NOTICE TO THE PUBLIC
WILLIAMSON COUNTY COMMISSIONER'S COURT
DECEMBER 11TH, 2018
9:30 A.M.

The Commissioner's Court of Williamson County, Texas will meet in regular session in the Commissioner's Courtroom, 710 Main Street, in Georgetown, Texas to consider the following items:

1. Review and approval of minutes.

2. Consider noting in minutes any off right-of-way work on any County road done by Road & Bridge Division.

3. Hear County Auditor concerning invoices, bills, Quick Check Report, wire transfers and electronic payments submitted for payment and take appropriate action including, but not limited to approval for payment provided said items are found by the County Auditor to be legal obligations of the county.

4. Citizen comments. Except when public hearings are scheduled for later in the meeting, this will be the only opportunity for citizen input. The Court invites comments on any matter affecting the county, whether on the Agenda or not. Speakers should limit their comments to three minutes. Note that the members of the Court may not comment at the meeting about matters that are not on the agenda.

CONSENT AGENDA
The Consent Agenda includes non-controversial and routine items that the Court may act on with one single vote. The Judge or a Commissioner may pull any item from the consent agenda in order that the court discuss and act upon it individually as part of the Regular Agenda.
(Items 5 – 13)

5. Discuss, consider and take appropriate action on a line item transfer for Technology Services

Fiscal Impact

From/To	Acct No.	Description	Amount
From	0100-0503-006303	Cradlepoint Lease Principal	$3,953.15
To	0100-0503-006403	Cradlepoint Lease Interest	$3,953.15

6. Discuss, consider, and take appropriate action on a line item transfer for Facilities.

Fiscal Impact

From/To	Acct No.	Description	Amount
From	0100.0509.004810	Lawn Service	2,900
To	0100.0509.005003	Equipment > $5,000	2,900

7. Discuss, consider and take appropriate action on approving compensation changes, position titles changes, position grade changes and any corresponding line item transfers.

8. Discuss, consider and take appropriate action on authorizing the disposal of various county assets through auction including nine (9) Laptops and four (4) Desktops, pursuant to Tx. Local Gov't Code 263.152.

9. Discuss, consider and take appropriate action on authorizing the disposal of various county assets through inter-departmental transfer including two (2) Dell Latitudes, two (2) Dell Docks, two (2) Bluetooth mice, two (2) HDMI-USB adapters, and two (2) VGA adapters, pursuant to Tx. Local Gov't Code 263.152.

10. Discuss, consider and take appropriate action on authorizing the disposal of various county assets through inter-departmental transfer including two (2) Dell Latitudes, two (2) Dell Docks and two (2) Keyboards, pursuant to Tx. Local Gov't Code 263.152.

11. Discuss, consider and take any necessary action to approve order for interment by cremation of deceased (R. Zimmerman) who passed away in J.P., Pct. 1 of Williamson County, TX where there has been no inquest by the Justice of the Peace and the county has duty to inter, pursuant to Tex. Health & Safety Code § 711.002(e), and authorize Beck Funeral Home to move forward with interment.

12. Discuss, consider and take appropriate action on accepting Stop The Bleed training supplies from Capital Area Trauma Regional Advisory Council (CATRAC) .

13. Discuss, consider, and take appropriate action on approval of the final plat for the Star Ranch Commercial Block A, Lot 2 subdivision - Precinct 4.

REGULAR AGENDA

14. Discuss, consider and take appropriate action on resolution acknowledging Larry Madsen's service to Williamson County as Commissioner of Precinct 4.

15. Hear presentation and discuss a proposal by the City of Georgetown to construct and maintain a wastewater interceptor line known as the “Berry Creek Interceptor Project” through Berry Springs Park and Preserve, a park owned and operated by Williamson County, Texas, as well as hear and discuss proposed restoration plans for the park.

16. Discuss consider and take appropraite action on Annual Interpretation by Texas A&M AgriLife Extension Service

17. Discuss, consider and take appropriate action on the Department of Infrastructure projects and issues update.

18. Discuss, consider and take appropriate action on a Contract Amendment No. 3 to the Environmental On-Call contract between Williamson County and SWCA Environmental Consultants relating to the 2013 Road Bond and LTP Corridor Programs. Project: Varies by Work Authorization. Funding Source: Either Road Bonds or Corridor.

19. Discuss, consider and take appropriate action on a Contract Amendment No. 5 to the SH 29 at D.B. Wood Road Improvements contract between Williamson County and Unintech Consulting Engineers, Inc. relating to the 2013 Road Bond Program. Project: P237. Funding Source: Road Bonds.

20. Discuss, consider and take appropriate action on approving a 2019 CIP Budget Transfer to move $519,918.95 from 2019 CIP Non-Departmental (P507) to SO Lott Building Remodel (P508) of $7,000.00, Precinct 4 Hutto Office Shell Finish Out (P516) of $6,000, Additional Hutto Office Condo (P517) of $6,918.95 and JP4 Technology Upgrade (P523) of $500,000.

21. Discuss, consider and take appropriate action on acknowledging a potential conflict and request to consent to Nossaman LLP's agreement to represent RR Campus, LP as to environmental issues relating to a real property development located in Williamson County and Travis County.

22. Discuss, consider and take appropriate action to replace Dan A. Gattis, County Judge, with Commissioner-Elect Russ Boles to the Capital Area Council of Governments (CAPCOG) General Assembly effective following the Executive Committee Meeting of CAPCOG on Wednesday, December 12th, 2018.

23. Discuss and take appropriate action to approve the agreement for consolidation and maintenance of birth and death records for an efficient and uniform system between Williamson County Justice of the Peace Precinct 4 and the Williamson County Clerk and transfer the registrar duties effective January 1, 2019.

24. Discuss, consider, and take approproate action on th approval of the Youth Mentoring Program Grant Resolution for Juvenile Services.

25. Discuss, consider, and take appropriate action on the approval of the Vocational Training for Youth Program Resolution for Juvenile Services.

26. Discuss, consider, and take appropriate action on the adoption of the Williamson County Interjurisdictional Wildfire Protection Plan and authorize the County Judge's signature to the plan along with the Emergency Management Coordinator and staff from the Texas A&M Forest Service to fully enact the plan.

27. Discuss, consider, and take appropriate action regarding termination of the Access Agreement between the WIlliamson County Sheriff's Office and Hit + Run Creative, Inc.

28. Discuss, consider and take any appropriate action regarding Amendment No. 1 to contract between Aramark Correctional Services, LLC and Williamson County to authorize slight price increase and provide jail inmate food service pursuant to Tex. Loc. Gov't Code 262.024 (a)(8) and 351.001.

29. Discuss, consider and take appropraite action on an Interlocal Cooperation Contract with Texas Department of Public Safety.

30. Discuss, consider and take appropriate action on establishing change drawers for Justice of the Peace Precinct 4 for a total of $300.00.

31. Discuss and take appropriate action on the Community Development Block Grant program's Consolidated Annual Performance and Evaluation Report (CAPER).

32. Discuss, consider and take appropriate action on increasing the budget on position control number 1793 by $5,065.39

Fiscal Impact

From/To	Acct No.	Description	Amount
From:	0100.0541.004100	Professional Services	$5,000.00
From:	0100.0541.003010	Computer Equiptment < $5,000	$65.39
To:	0100.0541.001100	Salaries	$5,065.39

33. Discuss, consider and take appropriate action on adding an Education Manager position and reclassifying four existing positions to TCO IVs full-time positions in the 911 Communications Department (0581), as previously approved in the FY19 budget.

34. Discuss, consider and take appropriate action on the Budget Policy document.

35. Discuss, consider and take appropriate action on creating a policy regarding line item transfers and contracts.

36. Discuss, consider, and take appropriate action on ratifying service agreement in the amount of $76,775.42 between STR Constructors, LTD and Williamson County for Emergency Sewer Line Repairs for the Williamson County Jail, exempting this purchase agreement from competitive bidding requirements as per Texas Local Government Code Discretionary Exemption 262.024.(a)(3), and authorizing the execution of the agreement.

37. Discuss, consider and take appropriate action on authorizing the Purchasing Agent to advertise and receive sealed bids for FY19 Cross Culvert Replacements under IFB #1811-281.

38. Discuss, consider and take appropriate action on approving the Services Contract between Williamson County and RHB Construction, Inc. to provide Concrete Work related to the Jail Renovation Project in the amount of $4,677.00 and authorizing execution of the agreement.

39. Discuss, consider and take appropriate action on approving the Services Contract between Willliamson County and Stanley Convergent Security Solutions, Inc. per the terms of BuyBoard Contract #493-15 to provide additional access controls solutions related to the Georgetown Annex Project in the amount of $87,414.10 and authorizing execution of the agreement.

40. Discuss, consider and take appropriate action on approving purchase for VMWare from Dell EMC, per quote #1025811320361.1 in the amount of $298,363.62 pursuant to DIR contract #DIR-TSO-3763.

41. Discuss, consider, and take appropriate action on rejecting proposals for RFP #1810-269 Emergency Generator and Automatic Transfer Switch Preventive Maintenance, Repair and Rental Services and request that information related to competition be excepted pursuant to Texas Government Code 552.104 and authorize the Purchasing Agent to advertise and receive proposals under the new RFP #1812-283.

42. Discuss, consider and take appropriate action on an order declaring an emergency and grave necessity due to unforeseeable circumstances and approve a budget amendment to acknowledge additional revenues for the Facilities Department.

Fiscal Impact

From/To	Acct No.	Description	Amount
	0100.0000.364100	Insurance Reimbursements	$5,774.37

43. Discuss, consider, and take appropriate action on an order declaring an emergency and grave necessity due to unforeseeable circumstances and approve a budget amendment to acknowledge the additional expenditures for Facilities.

Fiscal Impact

From/To	Acct No.	Description	Amount
	0100.0509.004541	Vehicle Repairs & Maint	$5,774.37

EXECUTIVE SESSION

"The Commissioners Court for Williamson County reserves the right to adjourn into executive session at any time during the course of this meeting to discuss any of the matters listed above, as authorized by Texas Government Code Sections 551.071 (Consultations with Attorney), 551.072 (Deliberations regarding Real Property), 551.073 (Deliberations regarding Gifts and Donations), 551.074 (Personnel Matters), 551.076 (Deliberations regarding Security Devices) and 551.087 (Deliberations regarding Economic Development Negotiations)."

44. Discussion regarding economic development negotiations pursuant to Texas Government Code, Section 551.087:
a) Business prospect(s) that may locate or expand within Williamson County.
b) Discuss North Woods Road District.
c) Project Amazon
d) Wolf Lakes
e) Project Capstone
f) Project Dalton House
g) Flint Hill Resources-Taylor Fuel Storage Terminal on CR 366
h) Project Deliver

45. Discuss real estate matters (EXECUTIVE SESSION as per VTCA Govt. Code sec. 551.072 Deliberation Regarding Real Estate Property if deliberation in an open meeting would have a detrimental effect on the position of the governmental body in negotiations with third person.)
A. Real Estate Owned by Third Parties
Preliminary discussions relating to proposed or potential purchase or lease of property owned by third parties
a) Discuss the acquisition of real property for right-of-way for N. Mays St. Extension
b) Discuss the acquisition of real property for SW 183 and SH 29 Loop.
c) Discuss the acquisition of real property for CR 176 at RM 2243
d) Discuss the acquisition of real property: CR 101
e) Discuss the acquisition of real property: CR 200
f) Discuss the acquisition of real property for CR 278 at Bagdad Rd.
g) Discuss the acquisition of real property for SH 29 LTP.
h) Discuss the acquisition of real property for County Facilities.
i) Discuss the acquisition of Easement interests for the Brushy Creek Trail Project.
j) Discuss the acquisition of real property and easements from San Gabriel River Ranch Subdivision.
k) Discuss the acquisition of real property for CR 278 @ Bagdad Rd.
l) Discuss the acquisition of real property for Seward Junction SE Loop.
m) Discuss the acquisition of real property for SH 29 @ DB Wood.
n) Discuss the acquisition of real property for Hairy Man Rd.
o) Discuss the acquisition of real property for SW Bypass.
p) Discuss Somerset Road Districts No. 3 & 4 reimbursements for acquisition & construction of Reagan Blvd.
q) Discuss the aquisition of real property for CR 111.
r) Discuss the acquisition of real property for Corridor H
s) Discuss an Interlocal Agreement with the City of Hutto regarding CR 163.
t) Discuss the acquisition of drainage easements on the Forest North Drainage Project.

u) Discuss the acquisition of Office Condominiums at 321 Ed Schmidt Boulevard, Hutto, Texas
v) Discuss the acquisition of real property for the expansion of Ronald Reagan at IH 35.
w) Discuss the acquisition of right-of-way for Corridor C.
x) Discuss the acquisition of right-of-way for Corridor F.
y) Discuss the acquisition of right-of-way for Corridor D.
z) Discuss the acquisition of right-of-way for Southeast Corridor.
aa) Discuss the acquisition of right-of-way for Reagan extension.
bb) Discuss possible sale of County-owned 7.38 acres in Breakaway Park Subdivision.
B. Property or Real Estate owned by Williamson County
Preliminary discussions relating to proposed or potential sale or lease of property owned by the County
a) Discuss County owned real estate containing underground water rights and interests.
b) Discuss wastewater easements in Berry Springs Park
c) Discuss sale of County property on Ronald Reagan Blvd.
d) Discuss possible sale of +/- 10 acres located on Chandler Road near the County Sheriff's Office Training Facility
e) Potential governmental uses for 8th Street downtown parking lot
f) Discuss possible uses of property owned by Williamson County on Main St. between 3rd and 4th Streets. (formerly occupied by WCCHD)
g) Discuss property usage at Longhorn Junction
h) Discuss sale of excess 183A right of way to abutting property owner.
C. Consider intervention in lawsuit regarding de-listing of Bone Cave harvestman.
D. Discuss the possible placement of agricultural-related monuments at the Williamson County Exposition Center with the participation of third parties.
E. Discuss the San Gabriel River trail easements.
F. Discuss the Williamson County Reimbursement Agreement for Construction of San Gabriel Blvd. and New Hope Road with the City of Leander and TIRZ #1

46. Discuss pending or contemplated litigation, settlement matters and other confidential attorney-client legal matters (EXECUTIVE SESSION as per VTCA Govt. Code sec. 551.071 consultation with attorney.), including the following:

a) Litigation or claims or potential litigation or claims against the County or by the County
b) Status Update-Pending Cases or Claims;
c) Employee/personnel related matters
d) Other confidential attorney-client matters, including contracts and certain matters related to county defense issues in which the duty of the attorney to the governmental body within the attorney/client relationship clearly conflicts with Chapter 551 of the Texas Government Code.
e) Civil Action No. 1:15-cv-431; Herman Crisp v. Williamson County, et al; In the USDC-WD-Austin Division
f) Appeal of IRS Proposed Worker Classification Changes and Proposed Tax Adjustments 2011 -2013; and Payment of Disputed Employment Taxes Pending Appeal
g) Discuss proposed acquisition of property for SW 183 and SH 29 Loop
h) Civil Action; American Stewards of Liberty, et al. v. Sally Jewell, et al., In the Western District Court, Western District of Texas, Austin Division
i) Berry Springs Park and Preserve pipeline
j) Case No. 1:17-cv-00290, Rodney A. Hurdsman v. Williamson County Sheriff Deputies Pokluda et al, In The Unites States District Court For The Western District of Texas – Austin Division.
k) Civil Action No. 1:17-cv-153-SS, Royce Belcher v. Williamson County, Texas, In The United States District Court for the Western District of Texas, Austin Division.
l) Application to Obtain New Municipal Solid Waste Permit – Proposed Permit No. 2398 (Applicant - Lealco, Inc.)
m) Employment law claims of Michelle Williams, Andrenia McGowen and/or Raphaela Johnson.
n) Civil Action No. 1:18-CV-49, Troy Mansfield v. Williamson County, In The United States District Court for the Western District of Texas, Austin Division.
o) Erik Olmeda vs. Williamson County and Keith LNU, In the County Court at Law No. 4 of Williamson County, Texas
p) Cause No. 18-0903-C425; Dee Hobbs, Williamson County Attorney v. Dan A. Gattis, Williamson County Judge, and Terry Cook, Cynthia Long, Valerie Covey and Larry Madsen, County Commissioners; In the 425th District Court of Williamson County, Texas

q) Potential opioid litigation
r) Valerie Adams - EEOC Charge No. 450-2018-03807
s) Terry Ballard – EEOC Charge No. 451-2018-02074
t) Legal and contractual matters relating to the Williamson County Health Care Participation Program/Local Provider Participation Program and Williamson County Charity Services.
u) Legal matters relating to Sunset Meadows Subdivision.
v) Discuss District Office Lease at the Williamson County Jester Annex for State Representative.
w) Civil Action No. 1:17-cv-01114-LY, Elizabeth Saucedo and Tettus Davis v. Jonathon Hodgkiss, In The United States District Court for the Western District of Texas, Austin Division.

47. Deliberate the appointment, employment, evaluation, reassignment, duties, discipline and/or dismissal of Williamson County officers, directors, employees and/or positions, including but not limited to conducting deliberation and discussion pertaining to annual reviews of department heads and appointed officials (Executive Session as per Tex. Gov. Code Section 551.074 – Personnel Matters).

48. Discuss the deployment or specific occasions for implementation of security personnel or devices in relation to the Williamson County Justice Center (Executive Session as per Texas Gov't. Code § 551.076).

49. Deliberate the appointment, evaluation and employment of the Senior Director of the Williamson County Human Resources Department, to include possibly conducting interviews of candidates for such position (Executive Session as per Gov. Code Section 551.074 – Personnel Matters: Deliberate the appointment and evaluation of public officer/department head).

REGULAR AGENDA (continued)

50. Discuss and take appropriate action concerning economic development.

51. Discuss and take appropriate action concering real estate.

52. Discuss and take appropriate action on pending or contemplated litigation, settlement matters and other confidential attorney-client legal matters, including the following:

a) Litigation or claims or potential litigation or claims against the County or by the County
b) Status Update-Pending Cases or Claims;
c) Employee/personnel related matters
d) Other confidential attorney-client matters, including contracts and certain matters related to county defense issues in which the duty of the attorney to the governmental body within the attorney/client relationship clearly conflicts with Chapter 551 of the Texas Government Code.
e) Civil Action No. 1:15-cv-431; Herman Crisp v. Williamson County, et al; In the USDC-WD-Austin Division
f) Discuss, consider and take appropriate action regarding possible appeal of IRS Proposed Worker Classification Changes and Proposed Tax Adjustments 2011 -2013; and approval of payment of disputed employment taxes pending appeal
g) Discuss proposed acquisition of property for SW 183 and SH 29 Loop
h) Civil Action; American Stewards of Liberty, et al. v. Sally Jewell, et al., In the Western District Court, Western District of Texas, Austin Division
i) Berry Springs Park and Preserve pipeline
j) Case No. 1:17-cv-00290, Rodney A. Hurdsman v. Williamson County Sheriff Deputies Pokluda et al, In The Unites States District Court For The Western District of Texas – Austin Division.
k) Civil Action No. 1:17-cv-153-SS, Royce Belcher v. Williamson County, Texas, In The United States District Court for the Western District of Texas, Austin Division.
l) Application to Obtain New Municipal Solid Waste Permit – Proposed Permit No. 2398 (Applicant - Lealco, Inc.)
m) Employment law claims of Michelle Williams, Andrenia McGowen and/or Raphaela Johnson.
n) Civil Action No. 1:18-CV-49, Troy Mansfield v. Williamson County, In The United States District Court

for the Western District of Texas, Austin Division.
o) Erik Olmeda vs. Williamson County and Keith LNU, In the County Court at Law No. 4 of Williamson County, Texas
p) Cause No. 18-0903-C425; Dee Hobbs, Williamson County Attorney v. Dan A. Gattis, Williamson County Judge, and Terry Cook, Cynthia Long, Valerie Covey and Larry Madsen, County Commissioners; In the 425th District Court of Williamson County, Texas
q) Potential opioid litigation
r) Valerie Adams - EEOC Charge No. 450-2018-03807
s) Terry Ballard – EEOC Charge No. 451-2018-02074
t) Legal and contractual matters relating to the Williamson County Health Care Participation Program/Local Provider Participation Program and Williamson County Charity Services.
u) Legal matters relating to Sunset Meadows Subdivision.
v) Discuss District Office Lease at the Williamson County Jester Annex for State Representative.
w) Civil Action No. 1:17-cv-01114-LY, Elizabeth Saucedo and Tettus Davis v. Jonathon Hodgkiss, In The United States District Court for the Western District of Texas, Austin Division.

53. Discuss, consider and take appropriate action regarding the appointment, employment, evaluation, reassignment, duties, discipline and/or dismissal of Williamson County officers, directors or employees, including but not limited to any necessary action pertaining to conducting annual reviews of department heads and appointed officials.

54. Comments from Commissioners.

_____
Dan A. Gattis, County Judge

This notice of meeting was posted in the locked box located on the south side of the Williamson County Courthouse, a place readily accessible to the general public at all times, on the _____ day of _____, 2018 at _____ and remained posted for at least 72 continuous hours preceding the scheduled time of said meeting.

Commissioners Court - Regular Session **5.**

Meeting Date: 12/11/2018

Discuss consider and take appropriate action on a line item transfer for Technology Services

Submitted For: Jay Schade **Submitted By:** Tammy McCulley, Information Technology

Department: Information Technology

Agenda Category: Consent

Information

Agenda Item

Discuss, consider and take appropriate action on a line item transfer for Technology Services

Background

The final Dell Cradlepoint lease payment was budgeted in full in the principal line item. This line item transfer will move the funds to the appropriate line items for principal and interest.

Fiscal Impact

From/To	Acct No.	Description	Amount
From	0100-0503-006303	Cradlepoint Lease Principal	$3,953.15
To	0100-0503-006403	Cradlepoint Lease Interest	$3,953.15

Attachments

No file(s) attached.

Form Review

Inbox	Reviewed By	Date
County Judge Exec Asst.	Wendy Coco	12/03/2018 10:28 AM
Budget Office	Ashlie Koenig	12/06/2018 10:56 AM
Form Started By: Tammy McCulley		Started On: 11/30/2018 01:14 PM
Final Approval Date: 12/06/2018		

Commissioners Court - Regular Session **6.**

Meeting Date: 12/11/2018

Line Item Transfer

Submitted By: Gina Wrehsnig, Infrastructure

Department: Infrastructure **Division:** Building Maintenance

Agenda Category: Consent

Information

Agenda Item

Discuss, consider, and take appropriate action on a line item transfer for Facilities.

Background

Additional funds needed for the purchase of mini excavator. This purchase was approved in the FY19 budget and will be a split purchase with the Parks Dept.

Fiscal Impact

From/To	Acct No.	Description	Amount
From	0100.0509.004810	Lawn Service	2,900
To	0100.0509.005003	Equipment > $5,000	2,900

Attachments

No file(s) attached.

Form Review

Inbox	Reviewed By	Date
County Judge Exec Asst.	Wendy Coco	12/06/2018 10:30 AM
Budget Office	Ashlie Koenig	12/06/2018 10:57 AM
Form Started By: Gina Wrehsnig		Started On: 12/06/2018 08:15 AM
Final Approval Date: 12/06/2018		

Commissioners Court - Regular Session **7.**

Meeting Date: 12/11/2018

Compensation Items

Submitted By: Kristy Grant, Human Resources

Department: Human Resources

Agenda Category: Consent

Information

Agenda Item

Discuss, consider and take appropriate action on approving compensation changes, position titles changes, position grade changes and any corresponding line item transfers.

Background

See attached documentation for details.

Fiscal Impact

From/To	Acct No.	Description	Amount

Attachments

Merit Details 12.11.18

Merit LIT 12.11.18

Comp Item

Form Review

Inbox	Reviewed By	Date
Human Resources (Originator)	Tammy Fennell	12/06/2018 11:33 AM
County Judge Exec Asst.	Wendy Coco	12/06/2018 11:51 AM
Form Started By: Kristy Grant		Started On: 12/06/2018 09:08 AM
Final Approval Date: 12/06/2018		

Department	Position	Emp ID Num	Current Annual Salary	Merit Amount	Merit %	New Annual Salary	Pay Proposal Reason	Effective Date of Change
County Attorney	CA Legal Asst I.1631.001100.	14783	$40,591.51	$811.82	2.00	$41,403.34	MERIT	1/11/2019
County Attorney	CA Legal Asst II.0020.001100.	14790	$44,802.22	$896.04	2.00	$45,698.27	MERIT	12/28/2018
County Attorney	CA Civil Attorney.1721.001100.	14795	$86,115.38	$1,722.24	2.00	$87,837.62	MERIT	12/28/2018
Emergency Services Dept.	Sr Dir of Emerg Serv.0904.001100.	14724	$155,039.82	$3,100.76	2.00	$158,140.58	MERIT	12/14/2018

				(TO)	(FROM)
entity	**fund**	**dept**	**object**	**dr**	**cr**
01	0100	0475	001100	3430.11	
01	0100	0475	001130		3430.11
01	0100	0583	001100	3100.76	
01	0100	0583	002010	237.21	
01	0100	0583	002020	435.04	
01	0100	8001	001130		3100.76
01	0100	8001	002010		237.21
01	0100	8001	002020		435.04

Department	PCN	EE ID	Position Title	Current Annual Salary	*New Annual Salary	Current Position Budget Amount	*New Position Budget Amount	Reduction to Position Budget	Increase to Position Budget	Change notes	Earliest Oracle Effective Date
560: Sheriff Office	1250	N/A	Deputy Sheriff	$53,320.58	no change	$70,355.17	$67,003.73	$3,351.44		Reallocation of position funds from position number 1250 to accommodate tenure increases and to increase the budget for position 1317 & 1284	10/5/2018
560: Sheriff Office	1317	11551	Deputy Sheriff	$57,715.91	$58,870.16	$57,715.91	$58,870.16		$1,154.25	Tenure Increase to L1.6	10/5/2018
560: Sheriff Office	1284	14367	Deputy Sheriff	$54,386.94	$56,584.13	$54,386.94	$56,584.13		$2,197.19	Tenure Increase to L1.4	11/2/2018
570: Sheriff Office / Corrections	0582	vacant	Medical Officer Sergeant	N/A	N/A	$65,276.32	$64,452.45	$823.87		Reallocation of position funds from position number 0582 to accommodate tenure increases and to increase the budget for position 1738	10/5/2018
570: Sheriff Office / Corrections	1738	13448	Corrections Officer	$36,616.58	$37,440.45	$36,616.58	$37,440.45		$823.87	Tenure Increase to C1.3	10/5/2018

*Amount may vary slightly due to Oracle rounding

Commissioners Court - Regular Session **8.**

Meeting Date: 12/11/2018

Asset Auction 12-11-2018

Submitted For: Randy Barker **Submitted By:** Jayme Jasso, Purchasing

Department: Purchasing

Agenda Category: Consent

Information

Agenda Item

Discuss, consider and take appropriate action on authorizing the disposal of various county assets through auction including nine (9) Laptops and four (4) Desktops, pursuant to Tx. Local Gov't Code 263.152.

Background

Please see attached lists for details.

Fiscal Impact

From/To	Acct No.	Description	Amount

Attachments

Attachment 1

Attachment 2

Form Review

Inbox	Reviewed By	Date
Purchasing (Originator)	Randy Barker	12/06/2018 11:12 AM
County Judge Exec Asst.	Wendy Coco	12/06/2018 11:51 AM
Form Started By: Jayme Jasso		Started On: 12/06/2018 08:42 AM
Final Approval Date: 12/06/2018		

FrmAudASCF01 revision 07/2014

Williamson County
Asset Status Change Form

Print Form

The following asset(s) is(are) considered for: (select one)

- ○ TRANSFER bet ween county departments
- ◉ SALE at the earliest auction *
- ○ TRADE-IN for new assets of similar type for the county
- ○ DONATION to a non-county entity
- ○ DESTRUCTION due to Public Health / Safety
- ○ SALE to a government entity / civil or charitable organization in the county at fair market value

Asset List:

Quantity	Description (year, make, model, etc.) A#	Manufacturer ID# (serial, service tag, or VIN)	County Tag#	Condition of Assets (Working, Non-Working)
1	DELL LATITUDE E6540 83244	334MD12		Working
1	DELL LATITUDE E5530 65908	3P1YKX1	1007	Working
1	DELL LATITUDE E6530 67993	7MT0LX1		Working
1	DELL LATITUDE E6530 67986	JJT0LX1	1004	Working
1	DELL LATITUDE E5540 88209	D54XH12	2507	Working

Parties involved:

FROM (Transferor Department): 0581 EMERGENCY COMMUNICATIONS

Transferor - Elected Official/Department Head/ Authorized Staff:

Carolyn Draper
Print Name

CR Draper 11/29/18
Signature Date

Contact Person:

TREY HEWTTY/ CAROLYN DRAPER
Print Name

+1 (512) 864-8234
Phone Number

TO (Transferee Department/Auction/Trade-in/Donee): AUCTION

Transferee - Elected Official/Department Head/ Authorized Staff OR Donee - Representative: (If being approved for Sale or Trade-in, no signature is necessary.)

Print Name

Signature Date

Contact Person:

RECEIVED
NOV 30 2018
AUDITOR'S OFFICE
WILLIAMSON COUNTY, TEXAS

Print Name

Phone Number

* If the above asset(s) is (are) listed for sale at auction and no bids are made, the Purchasing Director may dispose of or donate this (these) asset(s). A list of the (these) asset(s) to be donated or disposed of will be sent to the Auditor's Office with a date of donation or disposal.

Forward to County Auditor's Office

This Change Status was approved as agenda item # _____ in Commissioner's Court on _____

If for Sale, the asset(s) was(were) delivered to warehouse on _____ by _____

FrmAudASCF01 revision 07/2014

Williamson County
Asset Status Change Form

Print Form

The following asset(s) is(are) considered for: (select one)

- ○ TRANSFER bet ween county departments
- ◉ SALE at the earliest auction *
- ○ TRADE-IN for new assets of similar type for the county
- ○ DONATION to a non-county entity
- ○ DESTRUCTION due to Public Health / Safety
- ○ SALE to a government entity / civil or charitable organization in the county at fair market value

Asset List:

Quantity	Description (year, make, model, etc.) A #	Manufacturer ID# (serial, service tag, or VIN)	County Tag#	Condition of Assets (Working, Non-Working)
1	DELL LATITUDE E5530 65946	FV0YKX1	2222	Working
1	DELL OPTIPLEX 7010 65879	HWP2HX1	1012	Working
1	DELL PRECISION T1650 65935	FFJYGX1	1645	Working
1	DELL PRECISION T1650 65937	FFJZGX1	1646	Working

Parties involved:

FROM (Transferor Department): 0581 EMERGENCY COMMUNCATIONS

Transferor - Elected Official/Department Head/ Authorized Staff:

Carolyn Draper
Print Name

CR Draper 11/29/18
Signature Date

Contact Person:

TREY HEWTTY/ CAROLYN DRAPER
Print Name

+1 (512) 864-8234
Phone Number

TO (Transferee Department/Auction/Trade-in/Donee): AUCTION

Transferee - Elected Official/Department Head/ Authorized Staff OR Donee - Representative: (If being approved for Sale or Trade-in, no signature is necessary.)

Print Name

Signature Date

Contact Person:

Print Name

Phone Number

RECEIVED
NOV 30 2018
AUDITOR'S OFFICE
WILLIAMSON COUNTY, TEXAS

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FrmAudASCF01 revision 07/2014

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- ○ SALE to a government entity / civil or charitable organization in the county at fair market value

Asset List:

Quantity	Description (year, make, model, etc.) A#	Manufacturer ID# (serial, service tag, or VIN)	County Tag#	Condition of Assets (Working, Non-Working)
1	DELL LATITUDE E6540 83259	34ZLD12		Working
1	DELL LATITUDE E6540 83250	D4ZLD12		Working
1	DELL LATITUDE E6540 83257	74ZLD12		Working
				Working

Parties involved:

FROM (Transferor Department): 0581 EMERGENCY COMMUNCATIONS

Transferor - Elected Official/Department Head/ Authorized Staff:

Carolyn Draper
Print Name

CRDraper 11/29/18
Signature Date

Contact Person:

TREY HEWTTY/ CAROLYN DRAPER
Print Name

+1 (512) 864-8234
Phone Number

TO (Transferee Department/Auction/Trade-in/Donee): AUCTION

Transferee - Elected Official/Department Head/ Authorized Staff OR Donee - Representative: (If being approved for Sale or Trade-in, no signature is necessary.)

Print Name

Signature Date

Contact Person:

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Phone Number

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- ○ DONATION to a non-county entity
- ○ DESTRUCTION due to Public Health / Safety
- ○ SALE to a government entity / civil or charitable organization in the county at fair market value

Asset List:

Quantity	Description (year, make, model, etc.) A#	Manufacturer ID# (serial, service tag, or VIN)	County Tag#	Condition of Assets (Working, Non-Working)
1	Dell Optiplex 7010 PC 112236	Service Tag 5HR7N22	4569	Working

Parties involved:

FROM (Transferor Department): County Court 2

Transferor - Elected Official/Department Head/ Authorized Staff:

Judge Laura Barker
Print Name

x [signature]
Signature Date

Contact Person:

Kevin Kracht
Print Name

943-1410
Phone Number

TO (Transferee Department/Auction/Trade-in/Donee): Auction

Transferee - Elected Official/Department Head/ Authorized Staff OR Donee - Representative: (If being approved for Sale or Trade-in, no signature is necessary.)

Print Name

Signature Date

Contact Person:

RECEIVED
DEC - 4 2018
AUDITOR'S OFFICE
WILLIAMSON COUNTY, TEXAS

Print Name

Phone Number

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This Change Status was approved as agenda item # _____ in Commissioner's Court on _____

If for Sale, the asset(s) was(were) delivered to warehouse on _____ by _____

Commissioners Court - Regular Session **9.**

Meeting Date: 12/11/2018

Asset Transfer 12-11-2018

Submitted For: Randy Barker **Submitted By:** Jayme Jasso, Purchasing

Department: Purchasing

Agenda Category: Consent

Information

Agenda Item

Discuss, consider and take appropriate action on authorizing the disposal of various county assets through inter-departmental transfer including two (2) Dell Latitudes, two (2) Dell Docks, two (2) Bluetooth mice, two (2) HDMI-USB adapters, and two (2) VGA adapters, pursuant to Tx. Local Gov't Code 263.152.

Background

Please see attached list for details. This transfer is from the Technology Services Department to the District Attorney's Department.

Fiscal Impact

From/To	Acct No.	Description	Amount

Attachments

Attachment 1

Form Review

Inbox	Reviewed By	Date
Purchasing (Originator)	Randy Barker	12/06/2018 11:16 AM
County Judge Exec Asst.	Wendy Coco	12/06/2018 11:51 AM
Form Started By: Jayme Jasso		Started On: 12/06/2018 09:15 AM
Final Approval Date: 12/06/2018		

FrmAudASCF01 revision 07/2014

Williamson County
Asset Status Change Form

Print Form

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- ( ) DONATION to a non-county entity
- ( ) DESTRUCTION due to Public Health / Safety
- ( ) SALE to a government entity / civil or charitable organization in the county at fair market value

Asset List:

Quantity	Description (year, make, model, etc.) A#	Manufacturer ID# (serial, service tag, or VIN)	County Tag#	Condition of Assets (Working, Non-Working)
2	Dell Latitude 5590	F11WJR2, JWCWJR2		Working
2	Mini Displayport to VGA Adapter			Working
2	Dell Docks			Working
2	USB-C to HDMI adapter			Working
2	Dell Bluetooth Wireless Mouse			Working

Parties involved:

FROM (Transferor Department): TECHNOLOGY SERVICES

Transferor - Elected Official/Department Head/ Authorized Staff:

TAMMY MCCULLEY
Print Name

Tammy McCulley
Signature

Date

Contact Person:

HOLLY SHELL
Print Name

+1 (512) 943-1426
Phone Number

RECEIVED
DEC - 3 2018
AUDITOR'S OFFICE
WILLIAMSON COUNTY, TEXAS

TO (Transferee Department/Auction/Trade-in/Donee): DISTRICT ATTORNEY

Transferee - Elected Official/Department Head/ Authorized Staff OR Donee - Representative: (If being approved for Sale or Trade-in, no signature is necessary.)

Grace Frias
Print Name

Grace Frias
Signature

Grace Frias 11/27/18
Date

Contact Person:

GRACE FRIAS
Print Name

512-943-1234
Phone Number

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Forward to County Auditor's Office

This Change Status was approved as agenda item # _____ in Commissioner's Court on _____

If for Sale, the asset(s) was(were) delivered to warehouse on _____ by _____

Commissioners Court - Regular Session **10.**

Meeting Date: 12/11/2018

Asset Transfer 12-11-2018

Submitted For: Randy Barker **Submitted By:** Jayme Jasso, Purchasing

Department: Purchasing

Agenda Category: Consent

Information

Agenda Item

Discuss, consider and take appropriate action on authorizing the disposal of various county assets through inter-departmental transfer including two (2) Dell Latitudes, two (2) Dell Docks and two (2) Keyboards, pursuant to Tx. Local Gov't Code 263.152.

Background

Please see attached list for details. This transfer is from the District Attorney's Office to the Technology Services Department.

Fiscal Impact

From/To	Acct No.	Description	Amount

Attachments

Attachment 1

Form Review

Inbox	Reviewed By	Date
Purchasing (Originator)	Randy Barker	12/06/2018 11:18 AM
County Judge Exec Asst.	Wendy Coco	12/06/2018 11:51 AM
Form Started By: Jayme Jasso		Started On: 12/06/2018 09:26 AM
Final Approval Date: 12/06/2018		

FrmAudASCF01 revision 07/2014

Williamson County
Asset Status Change Form

Print Form

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- ( ) SALE at the earliest auction *
- ( ) TRADE-IN for new assets of similar type for the county
- ( ) DONATION to a non-county entity
- ( ) DESTRUCTION due to Public Health / Safety
- ( ) SALE to a government entity / civil or charitable organization in the county at fair market value

Asset List:

Quantity	Description (year, make, model, etc.)	Asset #	Manufacturer ID# (serial, service tag, or VIN)	County Tag#	Condition of Assets (Working, Non-Working)
2	Dell Latitudes	—	9H94SQ2 and 9B94SQ2		Working
2	Dell Docks	—	54BF6421EE65 and 54BF6421EEBA		Working
2	Keyboards	—	CN09XWXWDFS0088801P3		Working
			CN09XWXWDFS00888101V		Working

Parties involved:

FROM (Transferor Department): DISTRICT ATTORNEY

Transferor - Elected Official/Department Head/ Authorized Staff:

Grace Frias
Print Name

Grace Frias 11/27/18
Signature Date

Contact Person:

Grace Frias
Print Name

512-943-1234
Phone Number

TO (Transferee Department/Auction/Trade-in/Donee): TECHNOLOGY SERVICES

Transferee - Elected Official/Department Head/ Authorized Staff OR Donee - Representative: (If being approved for Sale or Trade-in, no signature is necessary.)

TAMMY MCULLEY
Print Name

Tammy McCulley
Signature

Date

Contact Person:

HOLLY SHELL
Print Name

+1 (512) 943-1426
Phone Number

RECEIVED
DEC - 3 2018
AUDITOR'S OFFICE
WILLIAMSON COUNTY, TEXAS

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Forward to County Auditor's Office

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If for Sale, the asset(s) was(were) delivered to warehouse on _____ by _____

Commissioners Court - Regular Session **11.**

Meeting Date: 12/11/2018

abandoned case

Submitted For: Dan Gattis **Submitted By:** Rebecca Clemons, County Judge

Department: County Judge

Agenda Category: Consent

Information

Agenda Item

Discuss, consider and take any necessary action to approve order for interment by cremation of deceased (R. Zimmerman) who passed away in J.P., Pct. 1 of Williamson County, TX where there has been no inquest by the Justice of the Peace and the county has duty to inter, pursuant to Tex. Health & Safety Code § 711.002(e), and authorize Beck Funeral Home to move forward with interment.

Background

Fiscal Impact

From/To	Acct No.	Description	Amount

Attachments

ACO

Form Review

Inbox	Reviewed By	Date
County Judge Exec Asst. (Originator)	Wendy Coco	12/06/2018 10:30 AM
Form Started By: Rebecca Clemons		Started On: 12/06/2018 09:12 AM
Final Approval Date: 12/06/2018		

Commissioners Court - Regular Session **12.**

Meeting Date: 12/11/2018

Training Supplies from Capital Area Trauma Regional Advisory Council (CATRAC)

Submitted For: Michael Knipstein **Submitted By:** Theresia Carter, EMS

Department: EMS

Agenda Category: Consent

Information

Agenda Item

Discuss, consider and take appropriate action on accepting Stop The Bleed training supplies from Capital Area Trauma Regional Advisory Council (CATRAC) .

Background

Stop The Bleed Training Kits purchased by CATRAC for distribution to participating members.

Fiscal Impact

From/To	Acct No.	Description	Amount

Attachments

No file(s) attached.

Form Review

Inbox	Reviewed By	Date
County Judge Exec Asst.	Wendy Coco	12/06/2018 10:26 AM
Form Started By: Theresia Carter		Started On: 12/05/2018 06:07 PM
Final Approval Date: 12/06/2018		

Commissioners Court - Regular Session **13.**

Meeting Date: 12/11/2018

Discuss consider and take appropriate action on approval of the final plat for the Star Ranch Commercial Blk A Lot 2 subdivision - Pct 4

Submitted For: Terron Evertson **Submitted By:** Adam Boatright, Infrastructure

Department: Infrastructure **Division:** Road & Bridge

Agenda Category: Consent

Information

Agenda Item

Discuss, consider, and take appropriate action on approval of the final plat for the Star Ranch Commercial Block A, Lot 2 subdivision - Precinct 4.

Background

This proposed subdivision consists of 1 lot and no new public roads.

Fiscal Impact

From/To	Acct No.	Description	Amount

Attachments

final plat - Star Ranch Commercial Blk A Lot 2

Form Review

Inbox	Reviewed By	Date
County Judge Exec Asst.	Wendy Coco	12/06/2018 10:30 AM
Form Started By: Adam Boatright		Started On: 12/06/2018 09:39 AM
Final Approval Date: 12/06/2018		

Commissioners Court - Regular Session **14.**

Meeting Date: 12/11/2018

Resolution

Submitted For: Larry Madsen **Submitted By:** Julia Cooper, Commissioner Pct. #4

Department: Commissioner Pct. #4

Agenda Category: Regular Agenda Items

Information

Agenda Item

Discuss, consider and take appropriate action on resolution acknowledging Larry Madsen's service to Williamson County as Commissioner of Precinct 4.

Background

Fiscal Impact

From/To	Acct No.	Description	Amount

Attachments

Larry Madsen Resolution

Form Review

Inbox	Reviewed By	Date
County Judge Exec Asst.	Wendy Coco	11/28/2018 09:07 AM
Form Started By: Julia Cooper		Started On: 11/27/2018 11:22 AM
Final Approval Date: 11/28/2018		

On the 11th day of December 2018 the Commissioners Court of Williamson County, Texas met in the duly called session at the Williamson County Courthouse, 710 Main Street, Georgetown, Texas, with the following members present:

Dan A. Gattis, County Judge

Terry Cook, Commissioner Precinct One — Cynthia Long, Commissioner Precinct Two

Valerie Covey, Commissioner Precinct Three — Larry Madsen, Commissioner Precinct Four

And at said meeting, among other business, the Court considered the following:

RESOLUTION

WHEREAS, in October of 2016, Judge Dan Gattis appointed Mr. Larry Madsen to serve the remainder of the unexpired term of Commissioner Ron Morrison who passed away on Sept. 7, 2016. The term ends Dec. 31, 2018. Mr. Madsen considered the appointment as an opportunity to give back to the community for all the good things it did for his family. During his tenure as County Commissioner, he was able to "give back" in many ways; and

WHEREAS, Mr. Madsen helped Pct. 4 recreational entities find partial funding for projects through the Williamson County Community Recreational Facility Fund. These projects include Taylor's Heritage Square Park and the Dickey Museum and Coupland's Caboose Restoration project; and

WHEREAS, Mr. Madsen assisted the Hutto Education Foundation in receiving funds through the Williamson County Solid Waste Fee Fund. This grant created the opportunity for the Foundation to begin funding scholarships through the endowment in 2019; and

WHEREAS, Mr. Madsen worked closely with Randy Bell and the Parks Department in the expansion of the Expo Center to add stall barns and an R.V. Park; and

WHEREAS, Mr. Madsen played an integral part in Valero landing in Taylor and worked with the City of Round Rock to bring Kalahari to Williamson County; and

WHEREAS, Mr. Madsen worked with the County and the City of Hutto to create a TIRZ agreement, making it possible for the City to proceed with their COOP District project; and

WHEREAS, Mr. Madsen worked closely with HNTB on road projects such as CR 110 and CR 119, as well as working with TXDOT to get traffic lights up at Hwy 79 @ CR 110, University Blvd @ CR 110 N and Limmer Loop @ CR 119, making travel much safer; and

NOW THEREFORE BE IT RESOLVED; that the Williamson County Commissioners Court would like to honor and extend its appreciation to Larry Madsen for his outstanding service to the County and specifically to Pct. 4 as County Commissioner as he carried out the term of Commissioner Ron Morrison with integrity, sincerity and scrupulous character.

RESOLVED THIS 11TH DAY OF DECEMBER 2018.

_____

Dan A. Gattis, County Judge

_____ — _____

Terry Cook, Commissioner Precinct 1 — Cynthia Long, Commissioner Precinct 2

_____

Valerie Covey, Commissioner Precinct 3

Commissioners Court - Regular Session **15.**

Meeting Date: 12/11/2018

City of Georgetown Berry Springs Presentation

Submitted For: Valerie Covey **Submitted By:** Rachel Rull, Commissioner Pct. #3

Department: Commissioner Pct. #3

Agenda Category: Regular Agenda Items

Information

Agenda Item

Hear presentation and discuss a proposal by the City of Georgetown to construct and maintain a wastewater interceptor line known as the “Berry Creek Interceptor Project” through Berry Springs Park and Preserve, a park owned and operated by Williamson County, Texas, as well as hear and discuss proposed restoration plans for the park.

Background

The City is seeking to extend a wastewater gravity interceptor along Berry Creek from the lift station at Airport Road to the City of Georgetown's Pecan Branch Wastewater Treatment Plant at FM 971. The project is known as the Berry Creek Interceptor. The path of the line would travel through the County's Berry Springs Park and Preserve located just west of IH-35 and ending just east of CR 152 along Berry Creek. The line would necessitate both permanent and temporary easement rights to be acquired from the County across the parkland for construction and subsequent maintenance and operation of the line.
Ms. Betsy Ross will discuss restoration using Native American Seed.
A public hearing has been set to be conducted in accordance with Texas Parks and Wildlife Code, Chapter 26 at the Williamson County Commissioners Court’s Tuesday, December 18, 2018 session.

Fiscal Impact

From/To	Acct No.	Description	Amount

Attachments

PDF.presentation

Restoration

Form Review

Inbox	Reviewed By	Date
County Judge Exec Asst.	Rebecca Clemons	12/06/2018 02:11 PM
Form Started By: Rachel Rull		Started On: 12/05/2018 09:52 AM
Final Approval Date: 12/06/2018		

Berry Creek Wastewater Interceptor Project

December 11, 2018

Project Team

- City of Georgetown – Owner
- Walker Partners – Design Consultant
- SWCA – Environmental and Hydrogeology
- Cambrian – Geologic Assessment and Karst
- Terracon - Geotechnical

Purpose of Appearance at Commissioners Court

- Project Purpose
- Options Considered and Findings Of Field Investigations
- Project Timeline
- Parks and Wildlife Code
- Discussion and Next Steps

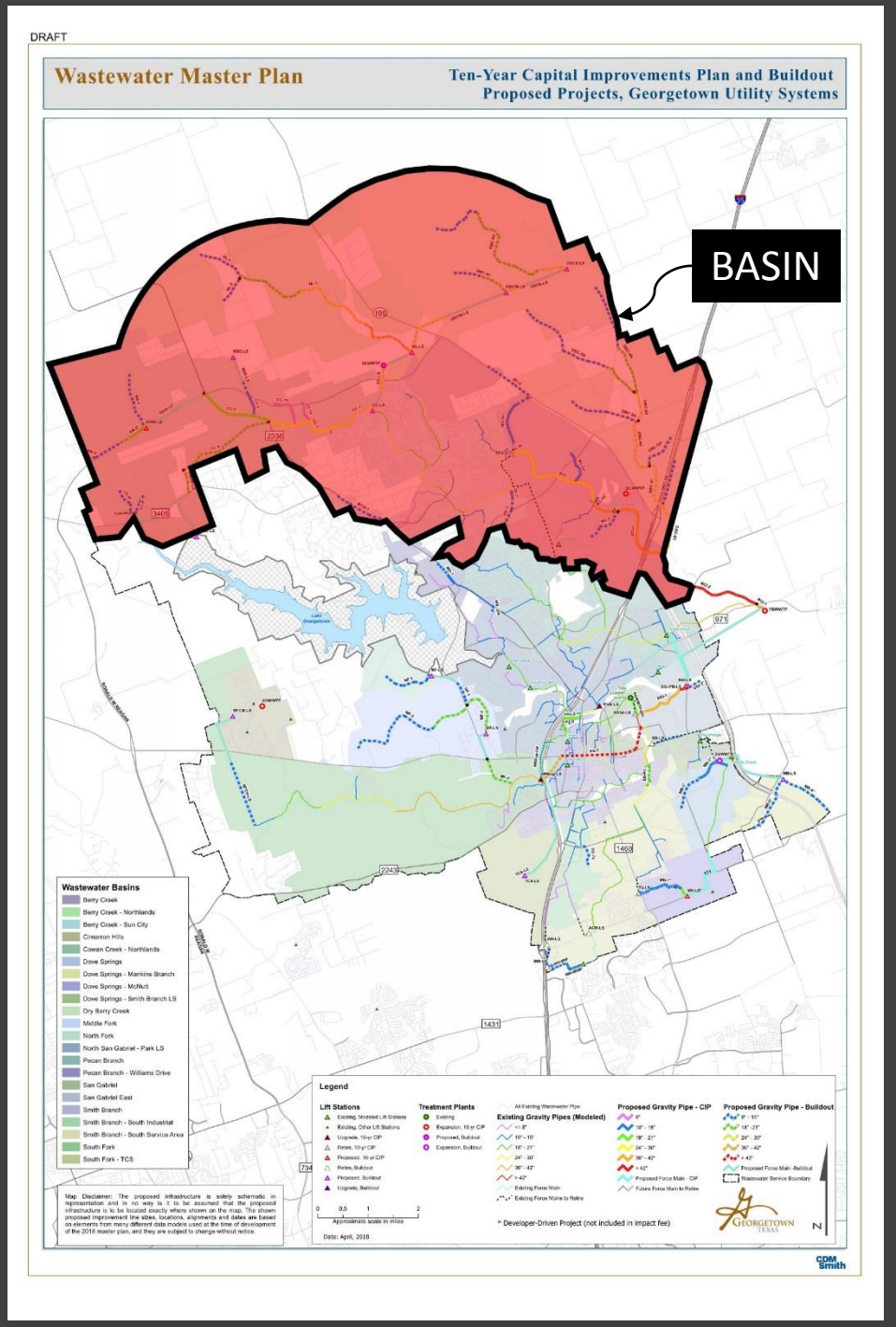
Project Purpose

Find most effective solution to provide wastewater service to a growing area

- Projected ultimate service to 25,000 LUEs in the basin for existing and future customers

Items of consideration

- Environment
- Cultural Resources
- Constructability
- Maintenance
- Operability
- Permitting
- Risk Reduction



Options Considered for Providing Wastewater Service

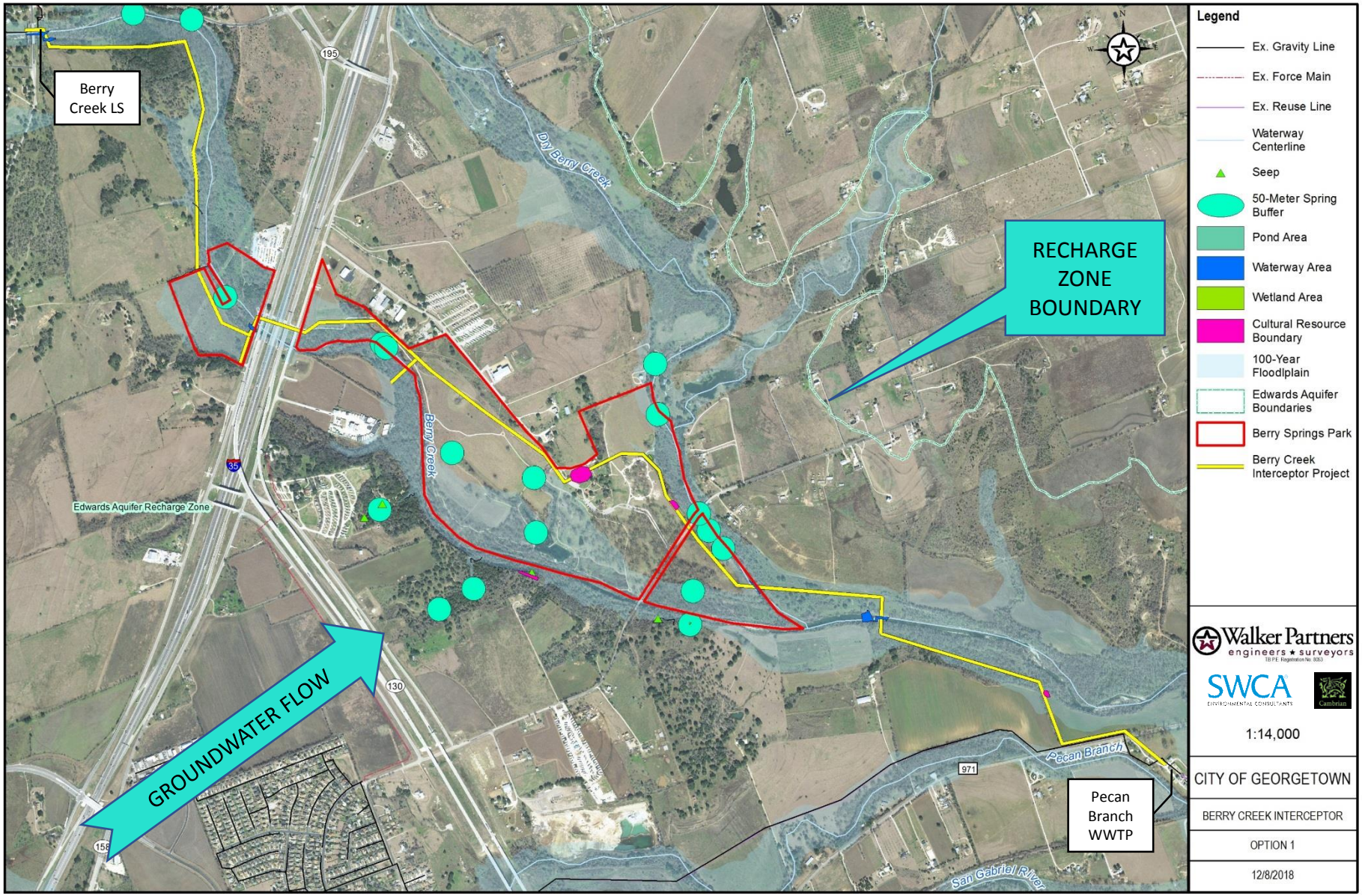
Option 1: Gravity interceptor following Berry Creek through Berry Springs Park

Option 2: Gravity interceptor following Berry Creek adjacent to Berry Springs Park

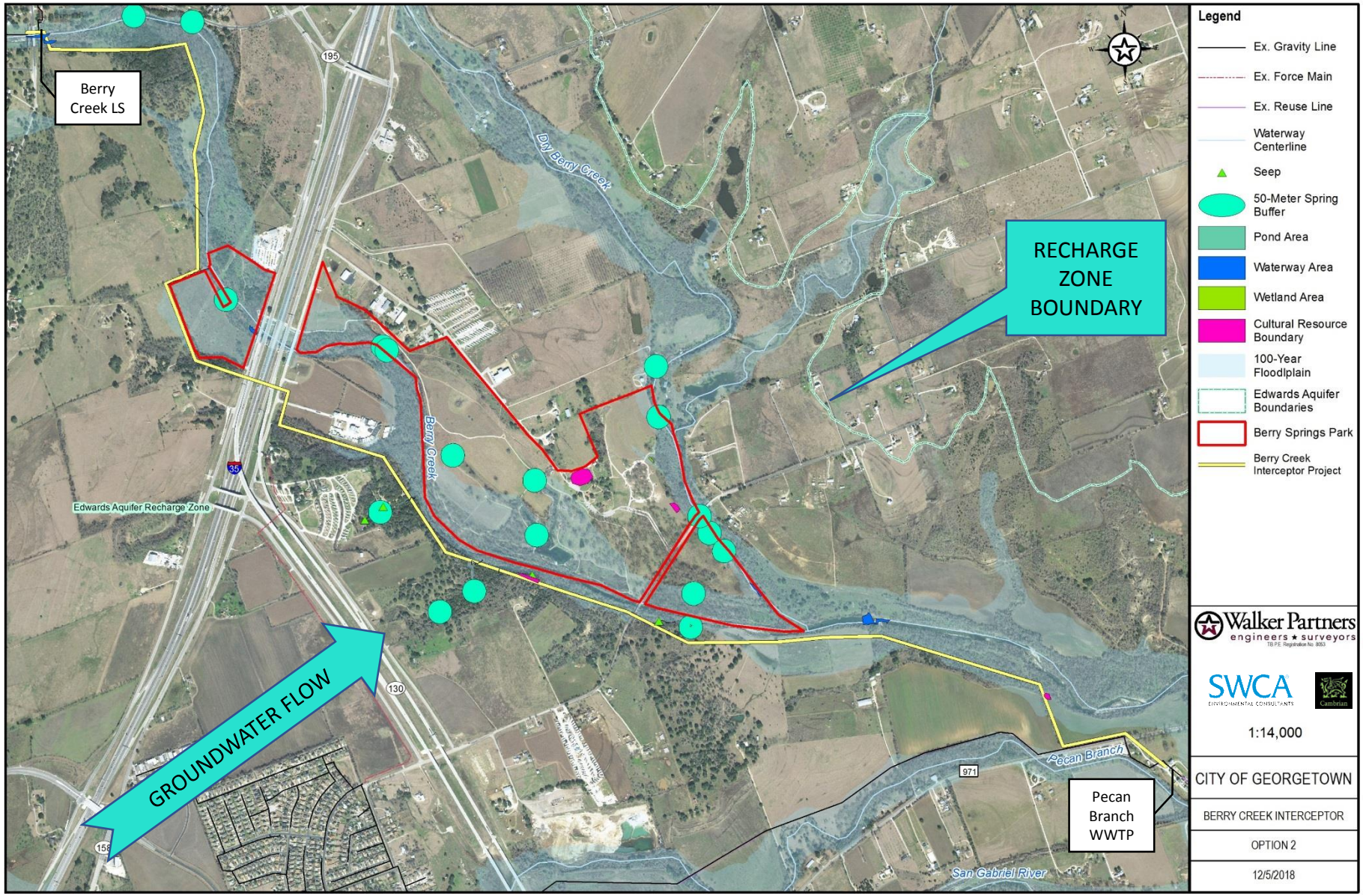
Option 3: Lift station, force main & interceptor around Berry Springs Park

Option 4: Wastewater treatment plant upstream from Berry Springs Park

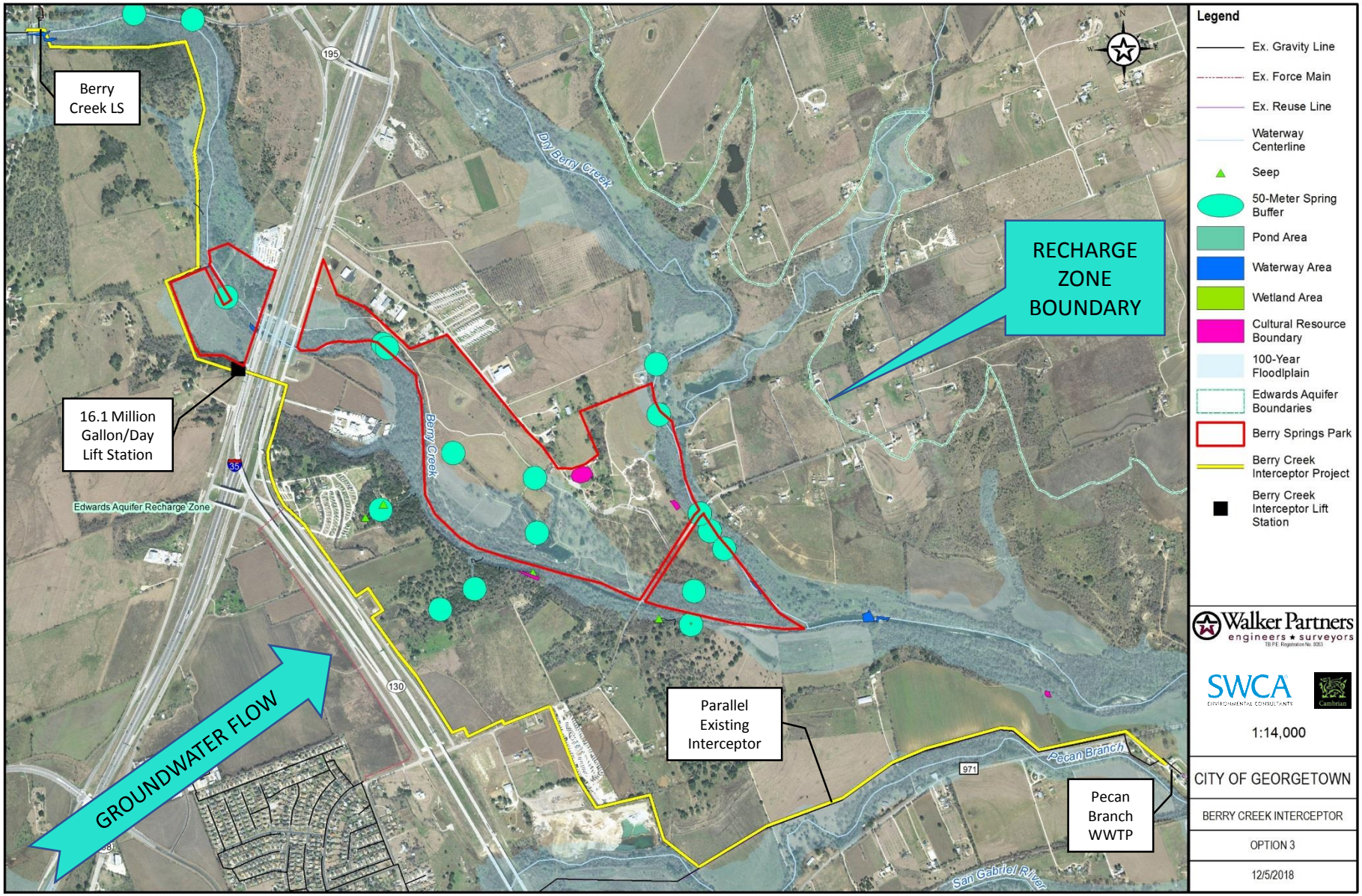
Option 1: Gravity interceptor following Berry Creek through Berry Springs Park



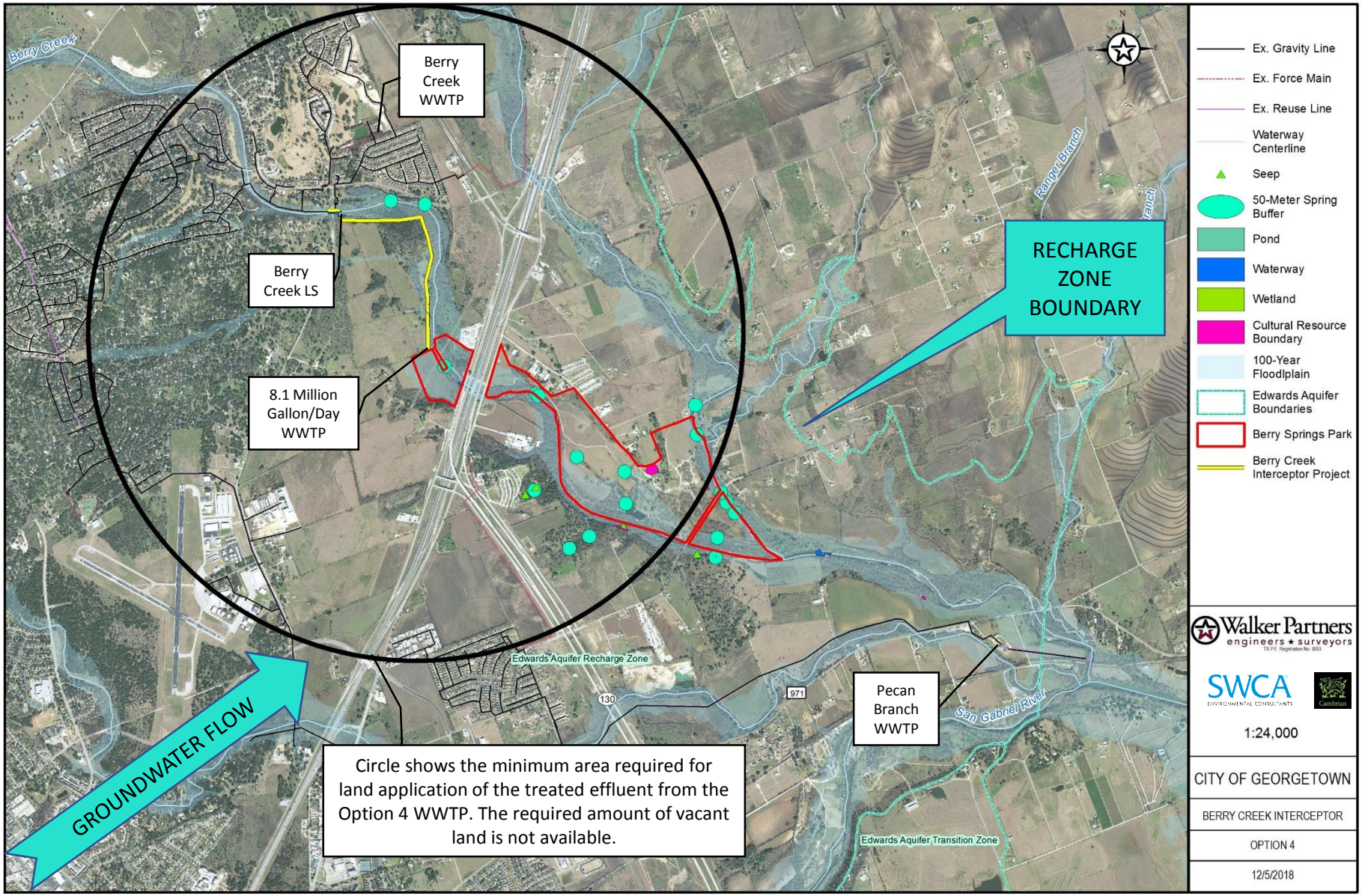
Option 2: Gravity interceptor following Berry Creek adjacent to Berry Springs Park



Option 3: Lift station, force main & interceptor around Berry Springs Park



Option 4: Wastewater treatment plant upstream from Berry Springs Park



Option Comparison

System Component Risk of Failure	Option 1	Option 2	Option 3	Option 4
Electric Power				
Pump				
Electric Motor				
Control Panel				
Supervisory Control				
Pressure Pipe				
Automatic Valve				
Operator Error				
Pipeline Collapse				
Pipeline Blockage				
Construction, Operations & Maintenance	**Option 1**	**Option 2**	**Option 3**	**Option 4**
Land Available				
Tree Removal				
Park Sewer Connections Available				
Maintenance Access				
Inspection Access				
Total Length of Construction < 10' Deep				
Total Length of Construction 10'-25' Deep				
Total Length of Construction 25'-40' Deep				
Total Length of Construction > 40' Deep				
Total Length of Tunneling				
Greatest Depth				
Total Estimated Cost				

Option 1: Gravity interceptor following Berry Creek through Berry Springs Park

Option 2: Gravity interceptor following Berry Creek adjacent to Berry Springs Park

Option 3: Lift station, force main & interceptor around Berry Springs Park

Option 4: Wastewater treatment plant upstream from Berry Springs Park

Legend

Highest Risk

Minor Risk

Lowest Risk

Field Investigation Resource Map

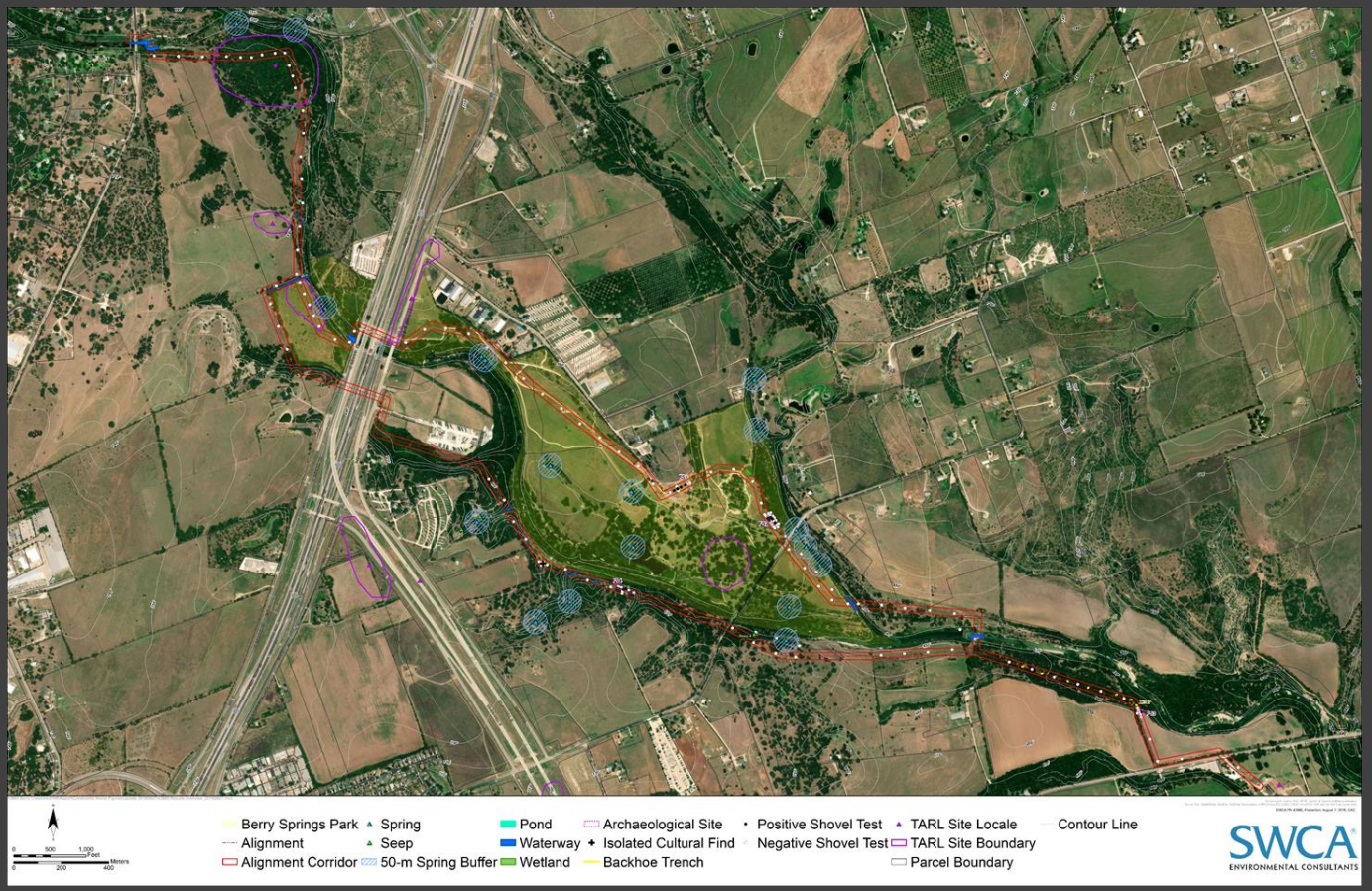
Waters of the U.S.

Wetlands

Springs

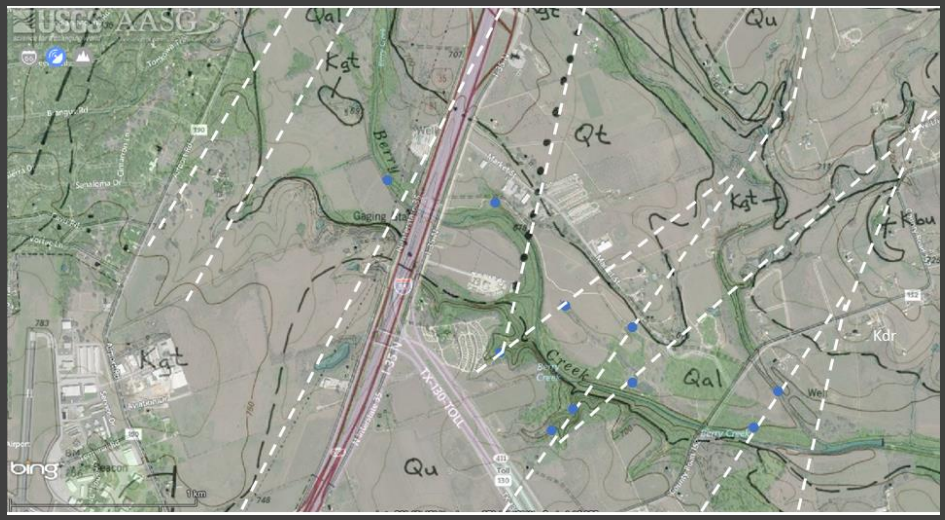
Seeps

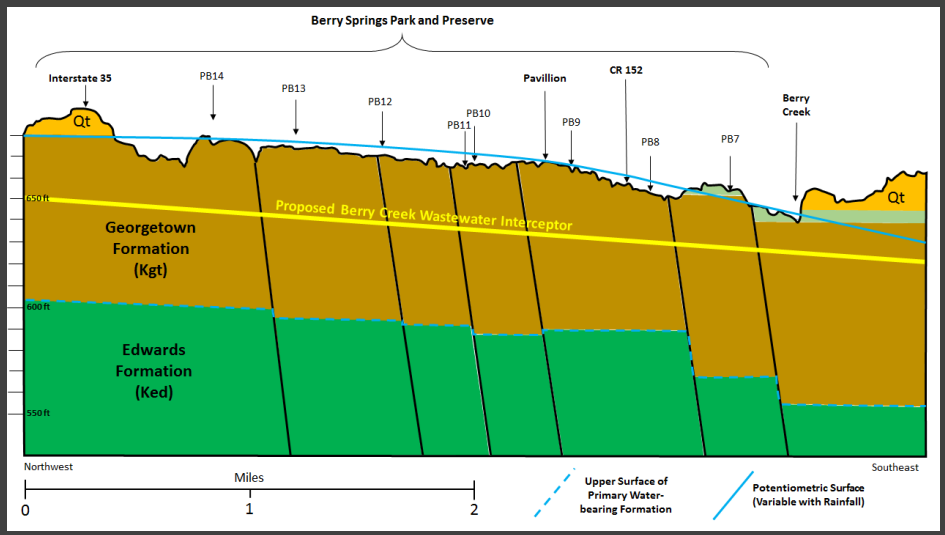
Cultural Resources



Geologic Assessment

- Review of previous geologic studies and scientific literature
- Field investigation of creeks, springs, faults, topography, etc.
- Geotechnical borings and soil sample testing
- Piezometer readings of groundwater flow through Georgetown Formation
- Edwards Aquifer recharge, flow and discharge





Project Timeline

1989 – Texas Water Development Board funded Wastewater Master Plan identifies need for Berry Creek Interceptor

October 1, 2016 – Fiscal Year 2017 funding for the City includes Berry Creek Interceptor

February 28, 2017 – Citizens to Address the Council

October 24, 2017 – Council Approval – Walker Partners MSA

October 24, 2017 – Council Approval – Terracon – GeoTechnical Engineering

October 24, 2017 – Council Approval – Walker Partners Engineering Design

November 14, 2017 – Initial Presentation to Wilco Commissioner's Court

December 1, 2017 – April 30, 2018 – Right of Entry for Field Investigations

August 27, 2018 – Meeting with Commissioner Long

September 4, 2018 – Meeting with Commissioner Cook

September 4, 2018 – Meeting with Commissioner Madsen

September 5, 2018 – Meeting with Commissioner Covey

October 4, 2018 – Open House at the Parks Administration Meeting Room

November 1, 2018 – Meeting with Judge Gattis

November 16, 2018 – Site Tour with McDaniels Family at Berry Springs Park

December 4, 2018 – Commissioners approved request for a Public Hearing to be held on December 18, 2018

Parks and Wildlife Code

TITLE 3. PARKS
CHAPTER 26. PROTECTION OF PUBLIC PARKS AND RECREATIONAL LANDS
Sec. 26.001. PROTECTED LAND; NOTICE OF TAKING.

(a) A department, agency, political subdivision, county, or municipality of this state may not approve any program or project that requires the use or taking of any ... park ... unless the department, agency, political subdivision, county, or municipality … determines that:

(1) there is no feasible and prudent alternative to the use or taking of such land; and

(2) the program or project includes all reasonable planning to minimize harm to the land … resulting from the use or taking.

(b) A finding required by Subsection (a) of this section may be made only after notice and a hearing as required by this chapter.

(c) The governing body or officer shall consider clearly enunciated local preferences, and the provisions of this chapter do not constitute a mandatory prohibition against the use of the area if the findings are made that justify the approval of a program or project.

Are there feasible and prudent alternatives to the use of the park?

Is Option 2, 3 or 4 feasible?

- Options 2 & 3 are feasible, but not prudent.
- Option 4 is not feasible because the extensive private land required for land application of treated effluent is not available.

Why is Option 2 not prudent?

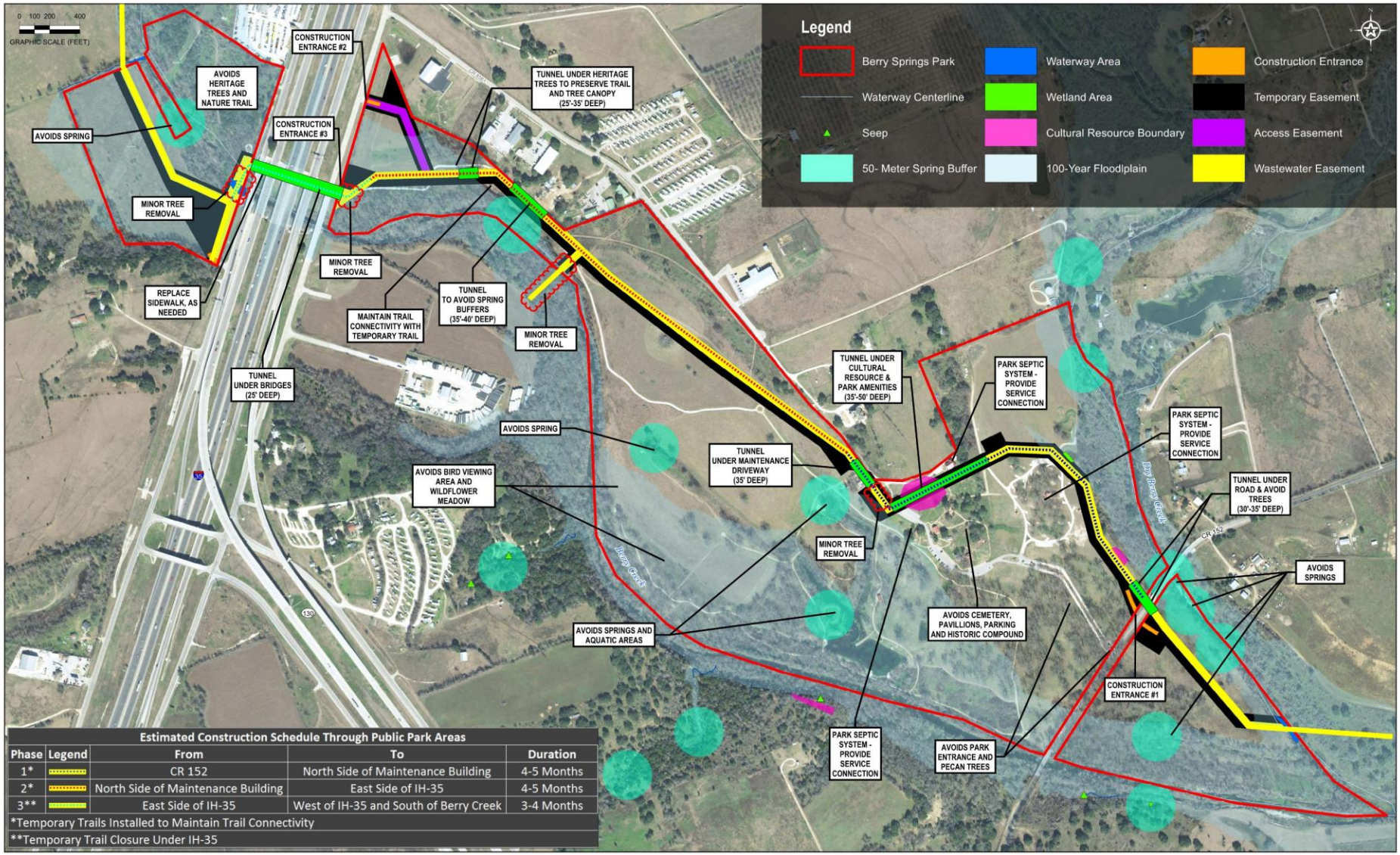
- Clear cuts and removes an additional 10-acres of trees along the creek.
- Tunneling length is almost double Option 1.
- Requires maintenance and inspection access 75-feet below ground.
- No relief for existing and future septic systems.

Why is Option 3 not prudent?

- Requires two lift stations adjacent to creek.
- Risk of mechanical system failure and a discharge of raw sewage to creek is very possible.
- Requires maintenance and inspection access 75-feet below ground.
- No relief for existing and future septic systems.

Feasible and Prudent - Recommended Route

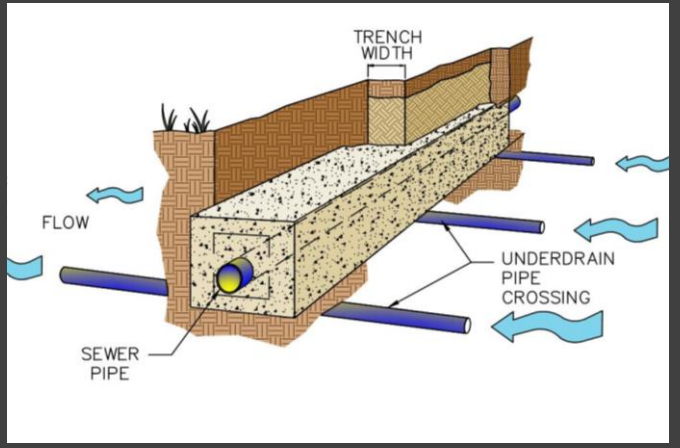
Option 1: Gravity interceptor following Berry Creek through Berry Springs Park

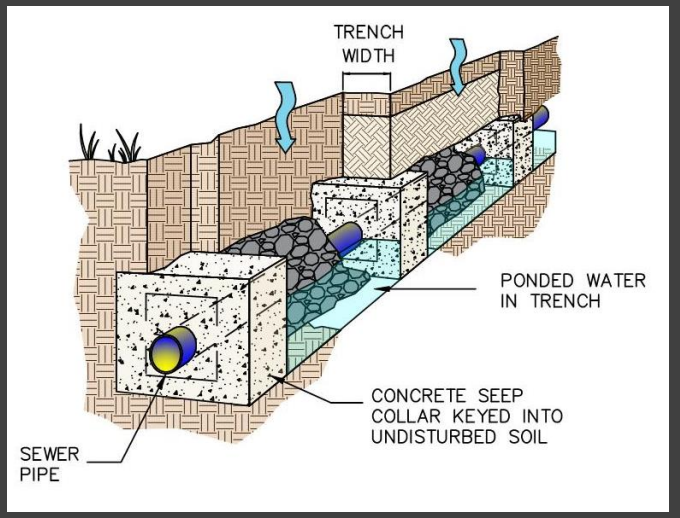


Estimated Construction Schedule Through Public Park Areas				
Phase	Legend	From	To	Duration
1*		CR 152	North Side of Maintenance Building	4-5 Months
2*		North Side of Maintenance Building	East Side of IH-35	4-5 Months
3**		East Side of IH-35	West of IH-35 and South of Berry Creek	3-4 Months
*Temporary Trails Installed to Maintain Trail Connectivity				
**Temporary Trail Closure Under IH-35				

What planning is included to protect the Edwards Aquifer and Spring Hydrology?

- Minimum 50-meter buffer from all springs to avoid direct impacts
- Construction monitoring for sensitive hydrologic features by professional geoscientists
- Implementation of Best Management Practices (BMPs) to maintain site hydrology (under drains, seep collars, etc.)
- Additional BMPs per approved TCEQ Edwards Aquifer Protection Plan
- Install pipe with leak-proof joints and water-tight manholes
- Conduct internal inspection of pipeline every 5 years





What planning is included to minimize harm to the land?

- Preserve all heritage trees and avoid potential damage
- Use silt fence to protect creeks from sediment runoff during construction
- Collaborate with park supervisor on construction schedule
- Provide multiple construction entrances away from park entrance
- Use temporary chain link fence to protect pedestrians and wildlife during construction
- Limit the length of open trenches and cover/fill trenches over night
- Provide temporary trails during construction, and restore trails and replace sidewalks after construction
- Place manhole cones and covers level with natural ground
- Restore preferred material and vegetation to disturbed areas in cooperation with County and County experts

Discussion and Next Steps

Public Input and Frequently Asked Questions

- gus.georgetown.org

Additional County Input

Commissioners' Comments

Next Step - Public Hearing

- December 18, 2018 during Commissioner's Court Meeting
- Finding from Commissioner's Court per Parks and Wildlife Code

Inputs / Comments

We Started Mandolin Gardens With This…

Existing Top Soil Used.
Compost only in the beds.

And Ended Up with this…

With the use of LBA's (Liquid Biological Amendments)

Roots!!

Before: MD Anderson Prairie

After…

Start March 2013
02/21/2012

6 Months After Start
10/03/2013

October 2015

Construction Progress
July 2012

Post Construction Conditions
May 2013 – 10 months later

Commissioners Court - Regular Session **16.**

Meeting Date: 12/11/2018

Discuss consider and take appropraite action on Annual Interpretation by Texas A&M AgriLife Extension Service

Submitted By: Pamela Ward, Ag Extension

Department: Ag Extension

Agenda Category: Regular Agenda Items

Information

Agenda Item

Discuss consider and take appropraite action on Annual Interpretation by Texas A&M AgriLife Extension Service

Background

Fiscal Impact

From/To	Acct No.	Description	Amount

Attachments

No file(s) attached.

Form Review

Inbox	Reviewed By	Date
County Judge Exec Asst.	Wendy Coco	12/05/2018 10:08 AM
Form Started By: Pamela Ward		Started On: 12/03/2018 03:06 PM
Final Approval Date: 12/05/2018		

Commissioners Court - Regular Session **17.**

Meeting Date: 12/11/2018

Discuss consider and take appropriate action on the Department of Infrastructure projects and issues update

Submitted For: Robert Daigh **Submitted By:** Lydia Linden, Infrastructure

Department: Infrastructure

Agenda Category: Regular Agenda Items

Information

Agenda Item

Discuss, consider and take appropriate action on the Department of Infrastructure projects and issues update.

Background

Fiscal Impact

From/To	Acct No.	Description	Amount

Attachments

No file(s) attached.

Form Review

Inbox	Reviewed By	Date
County Judge Exec Asst.	Wendy Coco	11/14/2018 02:47 PM
Form Started By: Lydia Linden		Started On: 11/14/2018 12:51 PM
Final Approval Date: 11/14/2018		

Commissioners Court - Regular Session **18.**

Meeting Date: 12/11/2018

On-Call ENV SWCA Contract Amendment 3

Submitted By: Marie Walters, Road Bond

Department: Road Bond

Agenda Category: Regular Agenda Items

Information

Agenda Item

Discuss, consider and take appropriate action on a Contract Amendment No. 3 to the Environmental On-Call contract between Williamson County and SWCA Environmental Consultants relating to the 2013 Road Bond and LTP Corridor Programs. Project: Varies by Work Authorization. Funding Source: Either Road Bonds or Corridor.

Background

This contract amendment adds the LTP Corridor program projects to the On-Call contract. It was agreed between Purchasing, Audit and the GEC that ?these are very similar programs and are managed financially in a similar manner. Many of the projects in LTP could be managed eventually by future bond funds.

Fiscal Impact

From/To	Acct No.	Description	Amount

Attachments

ENV-SWCA-ContractAmendment3

Form Review

Inbox	Reviewed By	Date
County Judge Exec Asst.	Wendy Coco	12/06/2018 10:26 AM
Form Started By: Marie Walters		Started On: 12/05/2018 04:30 PM
Final Approval Date: 12/06/2018		

RECEIVED
DEC 04 2018
BY: PSI

CONTRACT AMENDMENT NO. 3
TO
WILLIAMSON COUNTY CONTRACT FOR ENVIRONMENTAL SERVICES

WILLIAMSON COUNTY ROAD BOND PROJECT:
Environmental On-Call Services ("Project")

THIS CONTRACT AMENDMENT NO. 3 to Williamson County Contract for Environmental Services is by and between Williamson County, Texas, a political subdivision of the State of Texas, (the "County") and SWCA Environmental Consultants (the "Firm") and becomes effective as of the date of the last party's execution below.

WHEREAS, the County and the Firm executed the Williamson County Contract for Environmental Services dated effective December 9, 2014 (the "Contract");

WHEREAS, pursuant to Article 14 of the Contract, the terms of the Contract may be modified by a written fully executed Contract Amendment;

WHEREAS, the "Compensation Cap" under Article 5 of the Contract limits the maximum amount payable under the Contract to $750,000.00 and,

WHEREAS, the Rate Schedule in Exhibit D of the Contract are limited to the rates noted in said Exhibit D; and,

WHEREAS, it has become necessary to amend the Contract.

AGREEMENT

NOW, THEREFORE, premises considered, the County and the Firm agree that the Contract is amended as follows:

I. The Project name is hereby revised from 2013 Road Bond Program Environmental On-Call Services to 2013 Road Bond Program and Corridor Program Environmental On-Call Services.

All other terms of the Contract are unchanged and will remain in full force and effect.

IN WITNESS WHEREOF, the County and the Firm have executed this Contract Amendment, in duplicate, to be effective as of the date of the last party's execution below.

FIRM:

By: _____
Signature

_____
Printed Name

_____
Title

12.4.2018
Date

COUNTY:

By: _____
Signature

_____
Printed Name

_____
Title

_____
Date

12/5/2018

Commissioners Court - Regular Session **19.**

Meeting Date: 12/11/2018

SH 29 at DB Wood Road Unintech Contract Amendment No. 5

Submitted By: Marie Walters, Road Bond

Department: Road Bond

Agenda Category: Regular Agenda Items

Information

Agenda Item

Discuss, consider and take appropriate action on a Contract Amendment No. 5 to the SH 29 at D.B. Wood Road Improvements contract between Williamson County and Unintech Consulting Engineers, Inc. relating to the 2013 Road Bond Program. Project: P237. Funding Source: Road Bonds.

Background

Contract amendment increases the contract compensation cap from $1,460,000.00 to $1,650,000.00 an increase of $190,000.00 for roadway design revisions due to the adjacent development improvements and ROW negotiations.

Fiscal Impact

From/To	Acct No.	Description	Amount

Attachments

SH29@DBWood-Unintech-ContractAmendment5

SH29@DBWood-Unintech-Supp3WA2

Form Review

Inbox	Reviewed By	Date
County Judge Exec Asst.	Wendy Coco	12/06/2018 11:51 AM
Form Started By: Marie Walters		Started On: 12/05/2018 05:04 PM
Final Approval Date: 12/06/2018		

RECEIVED
DEC 03 2018
BY: PSI

CONTRACT AMENDMENT NO. 5
TO
WILLIAMSON COUNTY CONTRACT FOR ENGINEERING SERVICES

WILLIAMSON COUNTY ROAD BOND PROJECT:
SH 29 at D.B. Wood Road Improvements ("Project")

THIS CONTRACT AMENDMENT NO. 5 to Williamson County Contract for Engineering Services is by and between Williamson County, Texas, a political subdivision of the State of Texas, (the "County") and Unintech Consulting Engineers, Inc. (the "Engineer") and becomes effective as of the date of the last party's execution below.

WHEREAS, the County and the Engineer executed the Williamson County Contract for Engineering Services dated effective October 16, 2014 (the "Contract");

WHEREAS, pursuant to Article 14 of the Contract, the terms of the Contract may be modified by a written fully executed Contract Amendment;

WHEREAS, the "Compensation Cap" under Article 5 of the Contract limits the maximum amount payable under the Contract to $1,460,000; and,

WHEREAS, the Rate Schedule in Exhibit D of the Contract are limited to the rates noted in said Exhibit D; and,

WHEREAS, it has become necessary to amend the Contract.

AGREEMENT

NOW, THEREFORE, premises considered, the County and the Engineer agree that the Contract is amended as follows:

I. The Compensation Cap under Article 5 of the Contract is increased from $1,460,000.00 to a maximum amount payable under the contract to $1,650,000.00.

All other terms of the Contract are unchanged and will remain in full force and effect.

IN WITNESS WHEREOF, the County and the Engineer have executed this Contract Amendment, in duplicate, to be effective as of the date of the last party's execution below.

ENGINEER:

By: _____
Signature

Kum Wing (KW) Chan, P.E.
Printed Name

Vice President
Title

11/30/2018
Date

COUNTY:

By: _____
Signature

_____
Printed Name

_____
Title

_____
Date

12/5/2018

RECEIVED
DEC 03 2013
BY: PST

SUPPLEMENTAL WORK AUTHORIZATION NO. 3
TO
WORK AUTHORIZATION NO. 2

WILLIAMSON COUNTY ROAD BOND PROJECT:
SH 29 at DB Wood Road Intersection Improvements

This Supplemental Work Authorization No. 3 to Work Authorization No. 2 is made pursuant to the terms and conditions of the Williamson County Contract for Engineering Services, being dated October 16, 2014 ("Contract") and entered into by and between Williamson County, Texas, a political subdivision of the State of Texas, (the "County") and Unintech Consulting Engineering, Inc. (the "Engineer").

WHEREAS, the County and the Engineer executed Work Authorization No. 2 dated effective September 1, 2016 (the "Work Authorization");

WHEREAS, pursuant to Article 14 of the Contract, amendments, changes and modifications to a fully executed Work Authorization shall be made in the form of a Supplemental Work Authorization; and

WHEREAS, it has become necessary to amend, change and modify the Work Authorization.

AGREEMENT

NOW, THEREFORE, premises considered, the County and the Engineer agree that the Work Authorization shall be amended, changed and modified as follows:

I. The Services to be provided by the County that were set out in the original Attachment "A" of the Work Authorization are hereby amended, changed and modified as shown in the attached revised Attachment "A".

II.

III. The Services to be provided by the Engineer that was set out in the original Attachment "B" of the Work Authorization are hereby amended, changed and modified as shown in the attached revised Attachment "B".

IV. The Work Authorization shall terminate on June 30, 2019. The Services to be Provided by the Engineer shall be fully completed on or before said date unless extended by an additional Supplemental Work Authorization. The revised Work Schedule is attached hereto as Attachment "C".

V. The maximum amount payable for services under the Work Authorization is hereby increased from $985,855.37 to $1,129,612.37. The revised Fee Schedule is attached hereto as Attachment "D".

Except as otherwise amended by prior or future Supplemental Work Authorizations, all other terms of the Work Authorization are unchanged and will remain in full force and effect.

This Supplemental Work Authorization does not waive the parties' responsibilities and obligations provided under the Contract.

IN WITNESS WHEREOF, the County and the Engineer have executed this Supplemental Work Authorization, in duplicate, to be effective as of the date of the last party's execution below.

ENGINEER:

By: _____
Signature

Kum Wing (KW) Chan, P.E.
Printed Name

Vice President
Title

11/30/2018
Date

COUNTY:

By: _____
Signature

_____
Printed Name

_____
Title

_____
Date

11/NW 12/3/2018

LIST OF ATTACHMENTS

Attachment A - Services to be Provided by County

Attachment B - Services to be Provided by Engineer

Attachment C - Work Schedule

Attachment D - Fee Schedule

ATTACHMENT A

SERVICES TO BE PROVIDED BY THE COUNTY

The **COUNTY** shall furnish to the **ENGINEER** the following items as required:

1. Existing traffic signal plans for the intersection of SH 29 and DB Wood Road
2. Existing traffic signal timing plan for the intersection of SH 29 and DB Wood Road
3. Available utility information at the intersection
4. Available ROW information at the intersection
5. Existing as-builts for SH 29 and DB Wood Road
6. Right-of-Entry documents for all properties within the project limits
7. Geologic Assessment
8. Timely review and decisions necessary for the **ENGINEER** to maintain project schedule.

Attachment B

WILLIAMSON COUNTY

SH 29 at D.B. Wood Road Improvements

SUPPLEMENTAL AGREEMENT NO. 3 TO WORK AUTHORIZATION NO. 2 SERVICES TO BE PROVIDED BY THE ENGINEER

The SH 29 at D.B. Wood Road Improvement project ("Project") involves improvements to approximately 5,000 linear feet of SH 29 and 2,000 linear feet of D.B. Wood Road north of SH 29 and 1,000 linear feet south of SH 29. This intersection is in a high growth corridor for both Williamson County and the City of Georgetown. SH 29 is a major east-west corridor in central Williamson County, while DB Wood provides access along the west side of Georgetown in a north-south corridor. This area is within the study area for the future SW Bypass that will continue the SE Inner Loop from IH-35 around the southwest side of Georgetown connecting to DB Wood north of SH 29. Since the corridor has not been finalized, improvements to this intersection are critical to the efficient and safe movement of vehicles in the area.

Work Authorization No. 2, approved on September 1, 2016, was developed to implement a 4-lane raised median section with two turn lanes along SH 29, with concrete curb & gutter and open ditches behind the curb, utilizing swales for WPAP requirements. It will also include between a 5-lane and 6-lane section along DB Wood, with concrete curb & gutter, retaining walls, storm drain and open ditches behind the curb, utilizing both for WPAP.

The construction plan set (plan set) for this project shall contain the required drawings and details pertaining to grading, paving, signing, pavement marking, delineation, retaining walls, traffic signal modification, sequence of construction, traffic control, drainage and utility coordination. The plan set shall be prepared in English units and shall be suitable for the bidding and award of a contract through the County construction contracting system.

The tasks and products contained in this supplemental agreement are more fully described in the following TASK OUTLINE.

TASK OUTLINE

I. GEOTECHNICAL SERVICES (BY KLEINFELDER)

The following tasks have been completed for the design of an MSE retaining wall and design and construction of pavements for the SH 29 and DB Wood Road Widening:

1. Kleinfelder provided engineering analysis for the external (bearing, sliding, overturning, and eccentricity) and global stability to provide design recommendations for a proposed MSE wall, labeled Retaining Wall No. 5 (RW #5), located on the west side of DB Wood and near the northern boundary of the project. The design recommendations included the following items:
    - Minimum lengths of the reinforcements that meet the minimum requirements by TxDOT in terms of bearing capacity, sliding, overturning, eccentricity, and global stability analysis. A cross section of the retaining wall that is representative of the design was provided by the client. Our scope of work included the analysis of one representative cross section.
    - Soil parameters for the foundation soils and retained soils. Evaluation of other foundation improvement alternatives is not included in this scope.
    - Internal stability evaluation will be performed by others.
2. The deliverable for the MSE retaining wall for this amendment is the TxDOT Design Data sheet and a summary cover letter.

II. ROADWAY GRADING & CROSS SECTIONS AND DRAINAGE DESIGN SERVICES (BY CP&Y)

Additional effort for the SH 29 at DB Wood road project includes changes not anticipated from the original schematic and multiple efforts to 90% submittals, including:

- Additional right turn lane on SH29 affecting cross sections grading design, drainage design, drainage calculations, inlet design and storm sewer layout.
- Revisions to driveways affecting cross sections and grading design. New driveway at SH29 station 130+90 left – (Speedy Stop development), 148+60 right; removed driveways at, 132+40 left, 150+25 left & right; modified driveways at station 133+90 left, 136+20 right
- Modifications to median curb islands affecting cross sections and grading design
- Extend roadway construction limit to accommodate median left turn lane extension due to Morrison development from station 150+76 to 153+30, affecting cross sections and grading design.
- New alternative revisions for sidewalk alignment and profile on DB Wood Rd to 3' offset from ROW, northbound side, north of SH-29 affecting the cross sections and grading design.

The tasks and products contained in this supplemental agreement are more fully described in the following TASK OUTLINE.

TASK OUTLINE

A. ROADWAY DESIGN CONTROLS

1. GRADING AND CROSS SECTIONS
   a. Additional EB right turn lane at First Baptist Church
   b. Driveway revisions affecting grading, and cross sections
   c. Additional cross section iterations for changes in median layouts
   d. Update earthwork quantities

B. DRAINAGE

2. DRAINAGE DESIGN
   Storm Sewer Design, 10-yr design frequency
   a. Re-delineation of drainage areas due to changes in project and median locations.
   b. Additional area computation effort for changes to project limit.
   c. Additional storm sewer computation effort for changes to project.
   d. Additional effort on Drainage plan and profile sheets for changes to project.
   e. Update quantities and summary sheet

E. PROJECT MANAGEMENT AND ADMINISTRATION

7. Additional internal project coordination/meetings

III. ADDITIONAL DESIGN & COORDINATION (BY UNINTECH)

There were several design changes listed below after Work Authorization No. 2 and Supplemental Work Authorization No. 1 executed that required a greater effort and different challenges that needed to be evaluated and designed in accordance with TxDOT, Williamson County and the City of Georgetown standards, including:

❖ Changes related to additional right turn lane to FBC

- Add SH 29 EB right turn lane to FBC driveway at +/- Sta 141+00.
- Add additional storage for WB left turn lane at +/- Sta 141+00.

❖ Changes related to Morris Development

- Add median opening at Sta 148+60(+/-) to accommodate the new development on the south side of SH 29.
- Add new driveway at Sta. 148+60 (+/-) on the south side of SH 29 for the new south side development.
- Add SH 29 EB left-turn lane at the new median at Sta. 148+60 (+/-).
- Add SH 29 WB left-turn lane at the new median at Sta. 148+60 (+/-).
- Prepare design waiver on the above SH 29 WB or EB left-turn lanes at the new median in case the left turn lanes deceleration length does not meet TxDOT design criteria.

- Extend roadway construction limit to accommodate median left turn lane extension due to Morrison development UP TO 2,500 ft east of DB Wood Road Include deceleration lane (at new driveway on north side development) widening for portion of deceleration lane within construction limits.

The following plan modifications are included in relate to the above changes:

I. Roadway Design Controls
   A. Miscellaneous Plans
   B. Roadway Plans & Geometry
   C. New Intersection Layout at Sta. 148+60 (+/-)

II. Drainage
   A. Erosion Control Plan - SWPPP Plan
   B. Water Pollution Abatement Plan

III. Signing and Pavement Markings

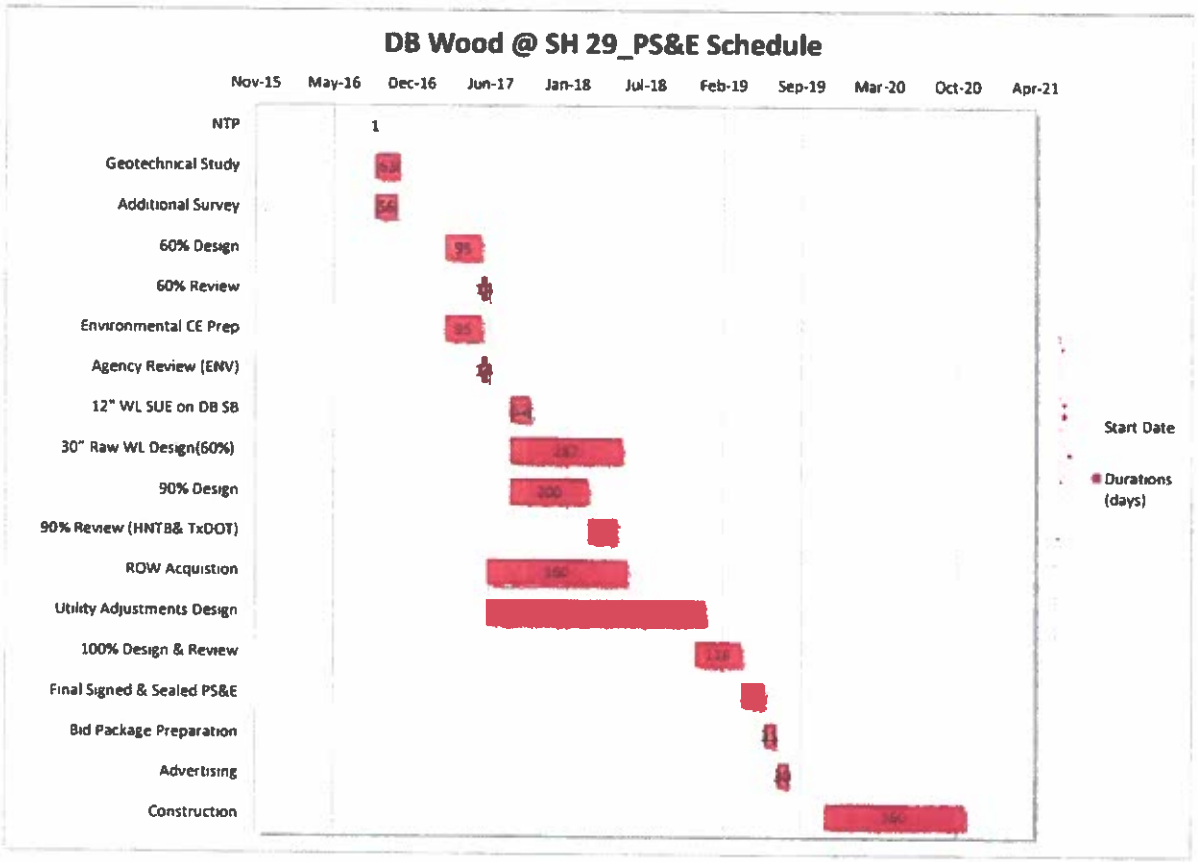
IV. Miscellaneous Roadway
   A. Traffic Control Plan
   B. Quantities and Summary
   C. Standards, Specifications and Estimate

V. QA/QC Reviews for Additional Design Items.

VI. Additional Project Management
   A. Prepare & submit additional monthly invoices
   B. Prepare additional monthly Progress Reports
   C. Meetings with County/HNTB (3)
   D. Prepare project meeting summaries (3)
   E. Design Team coordination meetings (1 per month)
   F. Review sub consultants monthly invoices, progress reports, etc.
   G. Review & coordinate subconsultants designs
      i. Review final geotechnical report & pavement designs – Kleinfelder
      ii. Review additional drainage designs & cross sections – CP&Y
      iii. Review intersection traffic study & temporary signal designs for TCP - HDR

Attachment C - Work Schedule

DB Wood @ SH 29_PS&E Schedule			
Tasks			
Start Date	End Date	Description	Durations (days)
9/1/2016	9/2/2016	NTP	1
9/2/2016	11/4/2016	Geotechnical Study	63
9/2/2016	10/28/2016	Additional Survey	56
2/27/2017	6/2/2017	60% Design	95
6/2/2017	6/16/2017	60% Review	14
2/27/2017	6/2/2017	Environmental CE Prep	95
6/2/2017	6/16/2017	Agency Review (ENV)	14
8/15/2017	10/6/2017	12" WL SUE on DB SB	52
8/15/2017	5/29/2018	30" Raw WL Design(60%)	287
8/15/2017	3/3/2018	90% Design	200
3/3/2018	5/17/2018	90% Review (HNTB& TxDOT)	75
6/16/2017	6/11/2018	ROW Acquistion	360
6/16/2017	12/28/2018	Utility Adjustments Design	560
12/3/2018	3/31/2019	100% Design & Review	118
3/31/2019	5/30/2019	Final Signed & Sealed PS&E	60
5/30/2019	6/30/2019	Bid Package Preparation	31
7/2/2019	8/1/2019	Advertising	30
10/31/2019	10/25/2020	Construction	360



UNINTECH CONSULTING ENGINEERS, INC.

ATTACHMENT D - FEE SCHEDULE SUMMARY

SH 29 AT DB WOOD ROAD
Supplemental Work Authorization No. 3 to Work Authorization No. 2
Williamson County

	Task Description	Total Cost
I	***LABOR COSTS ASSOCIATE WITH FBC RIGHT TURN LANE***	
A	GEOTECHNICAL SERVICE (See Separate Kleinfelder Fee Proposal)	$ 7,725.00
B	ROADWAY GRADING & CROSS SECTIONS AND DRAINAGE DESIGN SERVICES	$ 10,645.20
	(See Separate CP&Y Fee Proposal)	
C	ROADWAY PS&E MODIFICATIONS	$ 70,974.00
	TOTAL LABOR EXPENSES - A + B + C	**$ 89,344.20**
II	***LABOR COSTS ASSOCATE WITH MORRIS DEVELOPMENT***	
E	ROADWAY GRADING & CROSS SECTIONS AND DRAINAGE DESIGN SERVICES (40%)	$ 7,096.80
	(See Separate CP&Y Fee Proposal)	
F	ROADWAY PS&E MODIFICATIONS	$ 47,316.00
	TOTAL LABOR ASSOCATE WITH MORRIS DEVELOPMENT	**$ 54,412.80**
	TOTAL LABOR COSTS (I + II)	**$ 143,757.00**

ATTACHMENT D

SH 29 AT DB WOOD ROAD

-

Supplemental Work Authorization No. 3 to Work Authorization No. 2

Fee Schedule/Budget for Unintech Consulting Engineers, Inc.

Task Description	Project Manager	Senior Engineer	Project Engineer	Design Engineer	E.I.T.	Drainage Engineer	Senior CADD Operator	Admin / Clerical	Total Labor Hours	Total Direct Labor Costs
	$195.00	$160.00	$135.00	$110.00	$95.00	$130.00	$95.00	$45.00		
GEOTECHNICAL SERVICE (See Separate Kleinfelder Fee Proposal)										$ 7,725.00
ROADWAY GRADING & CROSS SECTIONS AND DRAINAGE DESIGN SERVICES (See Separate CP&Y Fee Proposal)	-	-	-	-	-	-	-	-		$ 17,742.00
ROADWAY PS&E PREPARATION I-VI										
I Roadway Design Controls - FBC										
A MISCELLANEOUS PLANS	-	-	-	-	-	-	-	-		
1 Site visit to update project information	4	4	-	-	-	-	-	-	8	$ 1,420.00
2 Update Title Sheet	1	1	2	-	-	-	2	-	6	$ 815.00
3 Update index sheet	1	1	2	2	-	-	2	-	8	$ 1,035.00
4 Update project layouts sheets	2	1	2	4	2	-	8	-	19	$ 2,210.00
B ROADWAY PLANS & GEOMETRY	-	-	-	-	-	-	-	-		
1 Update demolition plan	1	2	2	2	2	-	8	-	17	$ 1,955.00
2 Update typical sections - Add three (3) Typical Sections on SH 29	3	4	8	8	8	-	16	-	47	$ 5,465.00
3 Update Roadway P&P Sheets	8	12	12	12	20	-	40	-	104	$ 12,120.00
4 Update driveways layout and details	2	4	8	12	12	-	32	-	70	$ 7,610.00
C INTERSECTION LAYOUT	-	-	-	-	-	-	-	-		$ -
1 New intersection layouts @ Sta. 148+60 (+/-) - SH 29 and DB Wood	2	4	8	12	12	-	24	-	62	$ 6,850.00
2 Wheelchair Ramp Layout and Details @ New intersection above	1	2	4	6	2	-	12	-	27	$ 3,045.00
TOTAL - I										$ 42,525.00
II Drainage Erosion Control and WPAP										
A DRAINAGE AND EROSION CONTROL DESIGN	-	-	-	-	-	-	-	-		
1 Update SW3P plan	2	4	4	4	4	4	16	-	38	$ 4,430.00
B WATER POLLUTION ABATEMENT PLAN	-	-	-	-	-	-	-	-		$ -
1 Update WPAP	4	4	8	8	4	4	20	-	52	$ 6,180.00
2 Submit WPAP	2	2	4	4	-	-	12	4	28	$ 3,010.00
TOTAL - II										$ 13,620.00

UNINTECH CONSULTING ENGINEERS, INC.

III	**SIGNING, PAVEMENT MARKINGS, SIGNALIZATION**											
	A **Signing and Pavement Markings**	-	-	-	-	-	-	-	-			
	1 Update Small signs, pavement markings plan sheets	4	8	8	12	12	-	24	-	68	$	7,880.00
	2 Small signs detail sheets	2	4	6	6	8	-	12	-	38	$	4,400.00
	TOTAL - III										**$**	**12,280.00**
IV	**Miscellaneous Roadway**											
	A **Traffic Control Plan**	-	-	-	-	-	-	-	-			
	1 Update traffic control plans	4	4	4	4	4	-	12	-	32	$	3,920.00
	2 Update TCP Narrative	2	4	-	-	-	-	2	-	8	$	1,220.00
	B **Quantities and Summary**	-	-	-	-	-	-	-	-			
	1 TCP by phase	1	2	2	2	-	-	4	-	11	$	1,385.00
	2 Earthwork and Roadway	2	4	10	10	6	-	12	-	44	$	5,190.00
	3 Pavement markings and Small signs	1	2	4	4	6	-	4	-	21	$	2,445.00
	4 Erosion Control and SW3P	1	2	2	4	-	-	4	-	13	$	1,605.00
	C **Standards, Specifications and Estimate**	-	-	-	-	-	-	-	-		$	-
	1 Update and Modify Standards	2	4	6	-	-	-	8	-	20	$	2,600.00
	2 Update General Notes	4	4	-	-	-	-	-	-	8	$	1,420.00
	3 Update Construction Cost Estimate	2	4	4	4	4	-	4	-	22	$	2,770.00
	4 Update Specifications	2	4	-	-	-	-	2	-	8	$	1,220.00
	TOTAL - IV										**$**	**23,775.00**
V	**QA/QC Review For Additional Design Items**											
	1 QA/QC Review For Additional Design Items	8	16	8	-	-	-	16	-	48	$	6,720.00
	TOTAL - V										**$**	**6,720.00**
VI	**Additional Project Management**											
	A Prepare and submit monthly invoices	10	-	-	-	-	-	-	5	15	$	2,175.00
	B Prepare monthly progress reports	5	-	-	-	-	-	-	-	5	$	975.00
	C Monthly coordination meetings with County/HNTB	24	-	-	-	-	-	-	-	24	$	4,680.00
	D Prepare project meeting summaries	16	-	-	-	-	-	-	-	16	$	3,120.00
	E Design Team coordination meetings (2 per month)	10	10	-	-	-	-	-	-	20	$	3,550.00
	F Review of sub consultants monthly invoices, progress reports,etc.	6	6	-	-	-	-	-	-	12	$	2,130.00
	G Review & Coordinate Sub consultant Designs	-	-	-	-	-	-	-	-	0	$	-
	i) Review final geotechnical report & pavement designs - Kleinfelder	4	-	-	-	-	-	-	-	4	$	780.00
	ii) Review additional drainage designs & cross sections from CP&Y	4	4	4	-	-	-	-	-	12	$	1,960.00
	TOTAL - VI										**$**	**19,370.00**
	ADDITIONAL DESIGN & COORDINATION (UNINTECH Fee Proposal)										**$**	**118,290.00**
		-	-	-	-	-	-	-	-			
	SUBTOTAL SUPPLEMENTAL #3 FEE TASKS										**$**	**143,757.00**

KLEINFELDER
Bright People. Right Solutions.

Attachment D

FEE ESTIMATE

SH29 and DB Wood Widening
DB Wood MSE Wall
Williamson County, Texas

Engineering - MSE Wall	**Quantity**	**Unit**	**Rate**	**Cost**
CADD Operator MSE Wall Design Data Sheet	3	hour	$ 70.00	$ 210.00
Senior Engineer, MSE Wall Design Information includes external and global stability, embankment settlement, and soil parameters for foundation and retained soils, minimum reinforcement length, and ground improvement depth if needed	13	hour	$ 155.00	$ 2,015.00
Senior Principal Professional, MSE Wall Review	6	hour	$ 160.00	$ 960.00
Senior Principal Professional, Project Management	4	hour	$ 160.00	$ 640.00
Assistant Project Manager	0	hour	$ 95.00	$ -
Administrative I	2	hour	$ 50.00	$ 100.00
			Subtotal	***$ 3,925.00***
Additional MSE Wall Consultation				
Senior Principal Professional	4.25	hour	$ 160.00	$ 680.00
Senior Engineer	7	hour	$ 155.00	$ 1,085.00
			Subtotal	***$ 1,765.00***
Additional Pavement Consultation				
Senior Principal Professional	4	hour	$ 160.00	$ 640.00
Senior Engineer	6	hour	$ 155.00	$ 930.00
Project Professional	3	hour	$ 130.00	$ 390.00
Administrative I	0	hour	$ 50.00	$ -
			Subtotal	***$ 1,960.00***
			Total	**$ 7,650.00**

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SH 29 AT DB WOOD ROAD

Williamson County

Fee Schedule/Budget for CP&Y, Inc.

	Task Description	Project Manager	Senior Engineer	Design Engineer	E.I.T.	Chief Hydrologist	Total Labor Hours	Total Direct Labor Costs
		$225.00	$155.00	$115.00	$95.00	$185.00		
	I. thru V. PS&E							
I	**Roadway Design Controls**							
A	Grading & Design Cross Sections at 50-ft intervals	5	9	22	42		78	$ 9,082.00
							78	$ 9,082.00
II	**Drainage (A-1 through A-5)**							
B	Storm sewer design, 10-yr frequency							$ -
a	Interior Drainage Areas	1		3	6	-	10	$ 1,146.00
b	Run-off Calculations	1		3	6	-	10	$ 1,146.00
c	Analyze Storm Sewer Systems	1		6	10	-	17	$ 1,875.00
d	Drainage Plan & Profile 1"=100' H and 1"=10' V	1		7	16	-	24	$ 2,566.00
							61	$ 6,733.00
IV	**Miscellaneous (Roadway)**							
C-1	Earthwork	-	1	-	2	-	3	$ 347.00
C-2	Drainage	-	1	-	2	-	3	$ 347.00
C-3	Summary Sheets	-	-	-	-	-		$ -
							6	$ 694.00
V	**Project Management (8 Months)**							
7	Internal Design Team Meetings (8)	2	3	-	3		8	$ 1,203.00
							8	$ 1,203.00
	I. thru V. PS&E- SUBTOTAL							
	HOURS SUB-TOTALS	11	14	41	87	0	153	$ 17,712.00
	SUBTOTAL	$ 2,475.00	$ 2,170.00	$ 4,715.00	$ 8,352.00	$ -		$ 17,712.00
	DIRECT EXPENSES							$ 30.00
	WORK AUTHORIZATION 3 TOTAL							$ 17,742.00
	Estimated Portion of Fee Related to Changes due to Developments						40%	$ 7,096.80

Expense Item	Unit	Unit Cost	Amount	Total Cost
CADD Plotting	sf	$ 1.50		$ -
Mylar Plots (22x34 As-Builts)	lf	$ 6.00		$ -
Digital Ortho Plotting	lf	$ 2.00		$ -
11" X 17" Mylar	sheet	$ 1.00		$ -
8 1/2" X 11" B/W Paper Copies	sheet	$ 0.10		$ -
11" X 17" B/W Paper Copies	sheet	$ 0.15	200	$ 30.00
8 1/2" X 11" Color Paper Copies	sheet	$ 1.00		$ -
11" X 17" Color Paper Copies	sheet	$ 1.80		$ -
Fax Copies	sheet	$ 0.10		$ -
Film and Development	roll	$ 8.00		$ -
4 X 6 Digital Color Prints	picture	$ 0.50		$ -
Oversized Digital Color Prints	picture	$ 50.00		$ -
Standard Postage	letter	$ 0.44		$ -
Express Mail (Standard)	each	$ 15.00		$ -
Express Mail (Oversized)	each	$ 30.00		$ -
Deliveries	each	$ 25.00		$ -
Airfare	each	$ 200.00		$ -
Rental Car	day	$ 80.00		$ -
Lodging	day	$ 85.00		$ -
Meals	day	$ 36.00		$ -
Mileage	mile	$ 0.550		$ -
GPS Rental	day	$ 80.000		$ -
HazMat Database Search	each	$ 250.000		$ -
				$ -
Miscellaneous Project Related Expenses	NA	at cost		
SUBTOTAL DIRECT EXPENSES				$ 30.00

Commissioners Court - Regular Session **20.**

Meeting Date: 12/11/2018

2019 Capital Improvement Programs Budget Transfers

Submitted By: Emmeline Palma, County Auditor

Department: County Auditor

Agenda Category: Regular Agenda Items

Information

Agenda Item

Discuss, consider and take appropriate action on approving a 2019 CIP Budget Transfer to move $519,918.95 from 2019 CIP Non-Departmental (P507) to SO Lott Building Remodel (P508) of $7,000.00, Precinct 4 Hutto Office Shell Finish Out (P516) of $6,000, Additional Hutto Office Condo (P517) of $6,918.95 and JP4 Technology Upgrade (P523) of $500,000.

Background

These transfers will make the funds available per the December 4, 2018 discussion and approval of project budgets.

Fiscal Impact

From/To	Acct No.	Description	Amount

Attachments

No file(s) attached.

Form Review

Inbox	Reviewed By	Date
County Judge Exec Asst.	Wendy Coco	12/06/2018 10:26 AM
Form Started By: Emmeline Palma		Started On: 12/05/2018 03:36 PM
Final Approval Date: 12/06/2018		

Commissioners Court - Regular Session **21.**

Meeting Date: 12/11/2018

request to consent - Nossaman - waiver of conflict

Submitted For: Gary Boyd **Submitted By:** Gary Boyd, Parks

Department: Parks

Agenda Category: Regular Agenda Items

Information

Agenda Item

Discuss, consider and take appropriate action on acknowledging a potential conflict and request to consent to Nossaman LLP's agreement to represent RR Campus, LP as to environmental issues relating to a real property development located in Williamson County and Travis County.

Background

Because Nossaman represents both Williamson County and the Williamson County Conservation Foundation (WCCF) the firm has, under the applicable Rules of Professional Conduct, requested consent to representation of another entity and requested appropriate waivers from both WCCF and the County. Conflict under this waiver is potential but not likely. The private entity has entered into a Participation Agreement with the WCCF under the County's Habitat Conservation Plan. The facts are straight forward and staff does not believe a conflict is at issue. The Participation Agreement, should conflict occur, has provisions that WCCF and the County may terminate the Participation and that the Participant's sole recourse is toreceive return of the associated participation fee upon surrender of the participation.

Fiscal Impact

From/To	Acct No.	Description	Amount

Attachments

conflict of interest waiver

Form Review

Inbox	Reviewed By	Date
County Judge Exec Asst.	Wendy Coco	12/07/2018 09:46 AM
Form Started By: Gary Boyd		Started On: 12/06/2018 11:36 AM
Final Approval Date: 12/07/2018		

NOSSAMAN LLP

ATTORNEYS AT LAW

816 Congress Avenue
Suite 970
Austin, TX 78701
T 512.651.0660
F 512.651.0670

Alan M. Glen
D 512.813.7943
aglen@nossaman.com

December 4, 2018

Via Email to jllamas@generationalcommercial.com
RR Campus, LP
Attn: Joseph G. Llamas
P.O. Box 161146
Austin, Texas 78716

Re: Engagement and Fee Agreement for Legal Services

Dear Mr. Llamas:

We are very pleased to have the opportunity to provide legal services to RR Campus, LP ("Client"). (The terms "you" and "yours" as used in this letter shall refer to the Client). We expect that these services will be provided principally by attorneys resident in our Austin office, although we may call upon attorneys in our other offices to provide advice or assistance on your matter if appropriate. This letter will serve to record our agreement of the terms and conditions of our representation only after completing a review of all conflicts and credit, and acceptance of the engagement by Firm Management.

1. Client has asked us and we agree to represent Client with respect to advice on environmental issues relating to a real property development located in Williamson and Travis Counties, Texas.

2. Client agrees that RR Campus, LP is our Client for the specific matters on which we are engaged, and that we shall not be deemed to represent any of its parents, subsidiaries or other affiliates unless we expressly agree to do so in writing. Further, our representation of a corporation, partnership, joint venture, association, or other entity does not include a representation of the individuals or entities that are shareholders, officers, directors, partners, joint ventures, employees or members of such entities or their interests in such entities. There is no attorney-client relationship between the Firm and any such related person or entity. The attorney-client privilege is solely between the Client and the Firm. Any proposed expansion of the representation to include any such related persons or entities shall be subject to and contingent upon execution of an engagement letter directly with those persons or entities.

3. We understand that we are being retained only by the Client. We have performed our conflict check based upon the information you the Client provided to us. You agree that we are not bound to avoid conflicts with any other entities that you have not identified to us.

4. As we have discussed, we currently represent and in the past have represented Williamson County ("WilCo") and the Williamson County Conservation Foundation ("WCCF") in

connection with various matters, including matters that may indirectly relate to the approval process for this matter. The legal services you have asked us to perform may be adverse to WilCo and the WCCF. As a result, any services you ask us to perform while continuing to represent WilCo and the WCCF in other matters creates a conflict of interest.

We do not believe that our representation of WilCo and the WCCF in matters not directly related to your matter will adversely affect our relationship with or representation of you. You hereby affirm your consent to our representation of WilCo and the WCCF in matters not directly related to you, in which we currently represent WilCo or the WCCF or may in the future be asked to represent WilCo or the WCCF. You also hereby agree that the disclosure of information to you by the Firm, or alternatively, to us by WilCo or the WCCF, will not constitute, or be deemed to be, a waiver of any privilege, and you agree that we will have no obligation to disclose to you any confidential information either obtained by us from WilCo or the WCCF, or otherwise obtained or learned by us in the course of your representation.

In the unlikely event that litigation arises between you, WilCo or the WCCF with respect to this matter, we hereby agree not to represent any of such parties with respect to that litigation, and all parties will be required to proceed with counsel other than the Firm with respect to the litigation, but we may continue to represent you with respect to all other aspects of this matter. If any other event occurs in the future which, under the applicable Rules of Professional Conduct, may require our withdrawal from further representation of all or any of the parties herein, we agree to bring it to your attention, so that you can be informed and make any steps as may be necessary or appropriate to protect your interests.

By counter-signature of this letter as indicated below, we are also seeking WilCo and the WCCF's written confirmation of their consent to our representation of you for this matter.

5. On matters covered by this agreement, we agree to provide such legal services as we determine are reasonably required to represent Client; to take reasonable steps to keep you informed of facts and developments concerning the subject matter of this engagement as they come to our attention; and to respond to your reasonable inquiries. The Firm's lawyers have no obligation to share information, even information material to the representation, if that information was learned while representing other clients and is confidential to those other clients. You agree to cooperate with us, to keep us informed of developments, to abide by this agreement and to pay our statements for services in accordance with the provisions below.

6. Our fees for services provided to you pursuant to this agreement will be calculated and billed based upon hourly rates established for each attorney, paralegal and clerk rendering services on your matters. Our statements for services will provide you with a description of the services performed, the date they were performed, the time devoted to your matters and the specific hourly rate of the attorney, paralegal or clerk that performed the services on your behalf.

7. The hourly rates of individuals who are currently expected to perform services with respect to your matters are set forth on Attachment A hereto and will generally be recorded and billed in one tenth hour increments. If other personnel are asked to perform services, you will be informed of their billing rates on the first statement following their initial service. We

expect that the attorneys listed on Attachment A will render the bulk of the services. From time to time, our rate structure in general, or the rates of particular attorneys, paralegals or clerks, may be increased. If so, you will be advised of the new rates. The new rates shall apply to all work performed after you have been advised of the new rates.

8. Our hourly rates apply to all time spent on your behalf, including but not limited to court appearances; motion practice; preparing, analyzing, reviewing and revising correspondence and documents; factual and legal research; consultation and advice; conducting negotiations; engaging in depositions and other discovery; conferences; preparing for and conducting trials and appeals; travel time; conferring with other attorneys in our Firm, or with witnesses or attorneys also involved in the matter; and such other services of a professional nature as this engagement may require.

9. We will ordinarily incur various costs and expenses or will provide certain in-house services while performing legal services. You agree to pay for these items in addition to our fees for legal services. The costs and expenses and in-house services may include, but will not necessarily be limited to, filing fees fixed by law or assessed by courts or other agencies; court reporters' fees; witness fees; experts' fees; consultants' fees; process server fees; investigation expenses; out of town travel expenses; long distance telephone charges; messenger and private courier delivery charges; photocopying and other reproduction services; computerized research charges; and similar items.

External costs and expenses are charged at our cost, including computerized research. Where the Firm maintains a fixed subscription contract with a vendor for computerized research, you will be charged for the actual cost incurred by the Firm during the given month which often results in substantial discounts of the vendor's regular rates. We will not charge you for word processing, overtime expenses associated with administrative or secretarial personnel, telephone calls within the United States and similar items unless these items are unusually large in amount and we obtain your agreement in advance. We will not add a "handling" charge for costs and expenses incurred on your behalf.

10. We are not required to advance payment for any external expenses. If for any reason we advance a payment for external expenses, you agree to promptly pay our invoices with those charges. In addition, we may submit those charges directly to you and ask that you pay such charges directly to the vendors, in a timely manner. If you do not make timely payments to vendors, we reserve the right to pay those vendors on your behalf and include such charges in our statements and require reimbursement from you. It is important that vendors be promptly reimbursed so that we can retain good professional relationships with those vendors.

11. Our files for work prepared pursuant to this agreement are your property. We will release our files for work performed pursuant to this agreement to you or to anyone else you designate upon your written request delivered to the attorney in charge of this matter. However, you agree that we may, in our sole discretion, copy all or any portion of the file and charge the copying costs to you, and that we may have a reasonable period of time before releasing the documents to you or anyone else you designate in order to copy all or any portion of the files you have directed us to surrender. We will, from time to time, send portions of your files that are not currently needed to an off-site storage facility. The cost of this facility will be our sole

expense. However, we are not the guarantor of the security of any off-site storage facility. Accordingly, you agree that the Firm will not be responsible for any damages which may occur as a result of the loss of any of your files which we store at an off-site storage facility. You also agree that we may, after the passage of two years without our having performed any work for you pursuant to this engagement for services, destroy your files unless you provide us with written instruction to forward the files to you or to another person you designate.

12. You agree to keep us informed of any change in your address, telephone numbers, or electronic mail address so that we may effectively communicate with you. We will also advise you promptly of any change in the Firm's business address, electronic mail address or telephone or facsimile numbers. You agree that we may communicate with you via electronic mail or wireless telephone even though these media may be less secure than alternative means of communication.

13. To aid in your matters, it may become necessary to hire experts, consultants or investigators. Such persons will be employed by us on your behalf, not by you, so as to protect any privileged work; but we will not hire such persons unless you approve and also agree to pay their fees and charges. The responsibility to pay for their services is solely yours.

14. We will send you monthly statements for fees and costs incurred. Payment is due within 30 days of the date of invoice. If not paid within the 30 days, interest shall accrue at the rate of 12% per annum from said due date. You agree to read your statements carefully and promptly notify the Firm of any error.

15. We require a retainer of $20,000.00, payable before we commence work pursuant to this agreement. We will hold the retainer in the Firm's client trust account. We may apply the retainer to legal fees and costs which are not paid when due. We may reasonably determine additional retainers are necessary for future fees and disbursements or your failure to pay any past invoices. You agree to promptly replenish the retainer upon our request. Upon conclusion of our professional services to you, we will return any portion of the retainer that remains unapplied to any fees or past invoices.

The amount of the retainer does not set a limit on the amount of our legal fees and expenses and is not an estimate of the amount of our fees and expenses on this engagement. You understand that our agreement is based strictly upon hourly rates and that any opinions we provide to you from time to time about what the services we are providing pursuant to this agreement may cost are simply estimates and do not constitute an amendment of this agreement or a limitation on the amount of our legal fees.

16. It is understood and agreed that the provision of the retainer does not relieve you of your responsibility to pay the Firm's invoices on a timely basis from funds other than the retainer. The retainers are designed to minimize or avoid any credit risk to the Firm. You authorize the Firm to withdraw the principal from any and all retainers to pay legal fees and costs as they are incurred to the extent you do not pay any invoice within 30 days.

17. You may discharge us as your attorneys at any time. We may withdraw as your attorneys with or without your consent, as long as permitted by law. Some of the reasons that may cause us to withdraw include but are not limited to the following: your breach of this

agreement; your failure to pay our bills on time; your refusal to cooperate with us; your refusal to follow our advice on a material matter; the development of irreconcilable disagreement between you and us as to the conduct of the engagement; or any other fact or circumstance that would render our continuing representation contrary to your interests, or to law, or to the rules of professional conduct. Failure to withdraw as your attorneys on any one occasion shall not be a waiver of our right to do so if such other occasions arise.

If you discharge us, or if we elect to withdraw, you agree to secure forthwith other counsel of your own selection to represent you and, if we are your attorneys of record in any litigation, to cooperate fully in substituting such new counsel as your attorneys of record in the litigation.

18. Nothing in this agreement and nothing in our statements to you should be construed as a guarantee or promise about the outcome of your matter or any phase thereof. Comments about the course or outcome of your matter or any phase thereof which we may make from time to time are expressions of opinion only. You acknowledge that the amount of legal fees and costs which may be incurred on your behalf pursuant to this agreement is not capable of precise prediction; and you acknowledge that we have made no guarantees or promises and that you have set no limits with regard to the cost of services we provide you.

19. Except for a claim for Client's failure to pay fees for professional services and/or expenses, if any dispute arises out of, or relates to, a claimed breach of this agreement, the professional services rendered by attorneys, or any other disagreement of any nature, type or description regardless of the facts or legal theories which may be involved, such dispute shall be resolved by binding arbitration before a mutually selected dispute resolution firm.

20. Any dispute as to the Client's failure to pay fees for professional services and/or expenses shall be resolved in the appropriate District Court of the State of Texas. The party prevailing in an action regarding a dispute as to the client's failure to pay fees for professional services and/or expenses shall be entitled to recover from the other party the prevailing party's actual attorneys' fees and costs incurred, including expert witness fees, witness fees, and associated expenses, whether or not the action proceeds to judgment. For the purposes of enforcing this agreement, and as otherwise required by law, you agree that this agreement may be disclosed to a court or arbitrator.

21. This agreement is made under and shall be construed in accordance with the substantive laws of the State of Texas without reference to its choice of law rules.

22. We follow the terms of the Texas Lawyer's Creed in our practice and in compliance therewith attach a copy of the Texas Lawyer's Creed to this engagement letter.

23. We carry professional liability insurance which would cover the services we will be providing to you under the terms of this agreement. That insurance is subject to a significant self-insured retention.

24. This agreement will take effect when you sign this agreement and return it to us together with the retainer described above in this agreement ($20,000.00); but its effect will be retroactive to the date we first performed services on your behalf. Client agrees that its

performance under this agreement and its payment of the fees and costs required hereunder shall be in Austin, Texas.

25. This agreement constitutes a single, integrated written contract expressing the entire agreement of the Client and our Firm, and it may be executed in counterparts, which (or whose electronic copies) together shall constitute the entire agreement. There is no other agreement, written or oral, express or implied, between the parties with respect to the subject matter of this agreement. This agreement may be modified only in a writing signed by all the parties. This agreement shall be construed by giving effect to the plain meaning of its terms.

We are very proud of our client relationships, and occasionally identify clients to others who ask about our client base, or in institutional materials. Unless you object in writing, we assume that you agree that we may state that we represent you in such matters as we deem appropriate, although of course we would not publish or disseminate any confidential information.

Please understand that your engagement of the Firm will not become final until we advise you that we have cleared potential conflicts and a credit review of this engagement is approved by the Firm's Management.

If these terms are acceptable to you, please sign in the space provided below and return one copy of this agreement to us via email to aglen@nossaman.com or via facsimile to (512) 651-0670.

We appreciate your confidence in our Firm and look forward to working with you.

Best regards,

Alan M. Glen
of Nossaman LLP

ACCEPTANCE

I have read and understand the foregoing terms and agree to them as of the date that Nossaman LLP first provided services to RR Campus, LP.

Dated: _____

RR CAMPUS, LP

By: _____

Printed Name: JOSEPH LLAMAS

Title: MANAGER

Consented to by:

WILLIAMSON COUNTY, TEXAS

By:_____

Printed Name:_____

Title:_____

Date:_____

Consented to by:

WILLIAMSON COUNTY CONSERVATION FOUNDATION

By:_____

Printed Name:_____

Title:_____

Date:_____

FOR ACCOUNTING USE ONLY
Client Name:_____
Matter Name:_____
Client Number:_____

ATTACHMENT A

SCHEDULE/EXPLANATION OF FEES

Billing Rates charged in one-tenth hour increments:

TIMEKEEPER	HOURLY RATE
Attorneys	
Partners:	
Alan M. Glen	$565.00
Brooke M. Wahlberg	$470.00
Associates:	
Rebecca Hays Barho	$435.00
Joshua C. Burke	$295.00
Of Counsel:	
J.B. Ruhl	$520.00
Paralegals/Clerks	
If needed, hourly rates will be billed between $125 & $290 per hour.	

Interest charged on payment past due 12%
Retainer amount $20,000.00

AMG
Nossaman Partner Initials

_____
Client's Initials

FOR ACCOUNTING USE ONLY
Client Name:
Matter Name:
Client Number:

ATTACHMENT B

CLIENT INFORMATION

[PLEASE COMPLETE]

Mailing Address: P.O. Box 161146
AUSTIN, TX 78716

Daytime Telephone: (512) 853-9650

Daytime Facsimile: N/A

Cellular Phone: (512) 784-8891

Home Address: 613 WESTBROOK DR.
WEST LAKE HILLS, TX 78746

Home Telephone:

Home Facsimile:

☐ Please DO NOT contact me at mailing address or phone.

☐ You may also contact me by e-mail at: JLLAWS@GCPRB.COM

Texas Lawyer's Creed

I am a lawyer. I am entrusted by the People of Texas to preserve and improve our legal system. I am licensed by the Supreme Court of Texas. I must therefore abide by the Texas Disciplinary Rules of Professional Conduct, but I know that professionalism requires more than merely avoiding the violation of laws and rules. I am committed to this creed for no other reason than it is right.

I. OUR LEGAL SYSTEM

A lawyer owes to the administration of justice personal dignity, integrity, and independence. A lawyer should always adhere to the highest principles of professionalism.

1. I am passionately proud of my profession. Therefore, "My word is my bond."

2. I am responsible to assure that all persons have access to competent representation regardless of wealth or position in life.

3. I commit myself to an adequate and effective pro bono program.

4. I am obligated to educate my clients, the public, and other lawyers regarding the spirit and letter of this Creed.

5. I will always be conscious of my duty to the judicial system.

II. LAWYER TO CLIENT

A lawyer owes to a client allegiance, learning, skill, and industry. A lawyer shall employ all appropriate means to protect and advance the client's legitimate rights, claims, and objectives. A lawyer shall not be deterred by any real or imagined fear of judicial disfavor or public unpopularity, nor be influenced by mere self-interest.

1. I will advise my client of the contents of this creed when undertaking representation.

2. I will endeavor to achieve my client's lawful objectives in legal transactions and in litigation as quickly and economically as possible.

3. I will be loyal and committed to my client's lawful objectives, but I will not permit that loyalty and commitment to interfere with my duty to provide objective and independent advice.

4. I will advise my client that civility and courtesy are expected and are not a sign of weakness.

5. I will advise my client of proper and expected behavior.

6. I will treat adverse parties and witnesses with fairness and due consideration. A client has no right to demand that I abuse anyone or indulge in any offensive conduct.

7. I will advise my client that we will not pursue conduct which is intended primarily to harass or drain the financial resources of the opposing party.

8. I will advise my client that we will not pursue tactics which are intended primarily for delay.

9. I will advise my client that we will not pursue any course of action which is without merit.

10. I will advise my client that I reserve the right to determine whether to grant accommodations to opposing counsel in all matters that do not adversely affect my client's lawful objectives. A client has no right to instruct me to refuse reasonable requests made by other counsel.

11. I will advise my client regarding the availability of mediation, arbitration, and other alternative methods of resolving and settling disputes.

III. LAWYER TO LAWYER

A lawyer owes to opposing counsel, in the conduct of legal transactions and the pursuit of litigation, courtesy, candor, cooperation, and scrupulous observance of all agreements and mutual understandings. Ill feelings between clients shall not influence a lawyer's conduct, attitude, or demeanor toward opposing counsel. A lawyer shall not engage in unprofessional conduct in retaliation against other unprofessional conduct.

1. I will be courteous, civil, and prompt in oral and written communications.

2. I will not quarrel over matters of form or style, but I will concentrate on matters of substance.

3. I will identify for other counsel or parties all changes I have made in documents submitted for review.

4. I will attempt to prepare documents which correctly reflect the agreement of the parties. I will not include provisions which have not been agreed upon or omit provisions which are necessary to reflect the agreement of the parties.

5. I will notify opposing counsel, and, if appropriate, the Court or other persons, as soon as practicable, when hearings, depositions, meetings, conferences or closings are cancelled.

6. I will agree to reasonable requests for extensions of time and for waiver of procedural formalities, provided legitimate objectives of my client will not be adversely affected.

7. I will not serve motions or pleadings in any manner that unfairly limits another party's opportunity to respond.

8. I will attempt to resolve by agreement my objections to matters contained in pleadings and discovery requests and responses.

9. I can disagree without being disagreeable. I recognize that effective representation does not require antagonistic or obnoxious behavior. I will neither encourage nor knowingly permit my client or anyone under my control to do anything which would be unethical or improper if done by me.

10. I will not, without good cause, attribute bad motives or unethical conduct to opposing counsel nor bring the profession into disrepute by unfounded accusations of impropriety. I will avoid disparaging personal remarks or acrimony towards opposing counsel, parties and witnesses. I will not be influenced by any ill feeling between clients. I will abstain from any allusion to personal peculiarities or idiosyncrasies of opposing counsel.

11. I will not take advantage, by causing any default or dismissal to be rendered, when I know the identity of an opposing counsel, without first inquiring about that counsel's intention to proceed.

12. I will promptly submit orders to the Court. I will deliver copies to opposing counsel before or contemporaneously with submission to the Court. I will promptly approve the form of orders which accurately reflect the substance of the rulings of the Court.

13. I will not attempt to gain an unfair advantage by sending the Court or its staff correspondence or copies of correspondence.

14. I will not arbitrarily schedule a deposition, court appearance, or hearing until a good faith effort has been made to schedule it by agreement.

15. I will readily stipulate to undisputed facts in order to avoid needless costs or inconvenience for any party.

16. I will refrain from excessive and abusive discovery.

17. I will comply with all reasonable discovery requests. I will not resist discovery requests which are not objectionable. I will not make objections nor give instructions to a witness for the purpose of delaying or obstructing the discovery process. I will encourage witnesses to respond to all deposition questions which are reasonably understandable. I will neither encourage nor permit my witness to quibble about words where their meaning is reasonably clear.

18. I will not seek Court intervention to obtain discovery which is clearly improper and not discoverable.

19. I will not seek sanctions or disqualification unless it is necessary for protection of my client's lawful objectives or is fully justified by the circumstances.

IV. LAWYER AND JUDGE

Lawyers and judges owe each other respect, diligence, candor, punctuality, and protection against unjust and improper criticism and attack. Lawyers and judges are equally responsible to protect the dignity and independence of the Court and the profession.

1. I will always recognize that the position of judge is the symbol of both the judicial system and administration of justice. I will refrain from conduct that degrades this symbol.

2. I will conduct myself in Court in a professional manner and demonstrate my respect for the Court and the law.

3. I will treat counsel, opposing parties, the Court, and members of the Court staff with courtesy and civility.

4. I will be punctual

5. I will not engage in any conduct which offends the dignity and decorum of proceedings.

6. I will not knowingly misrepresent, mischaracterize, misquote or miscite facts or authorities to gain an advantage.

7. I will respect the rulings of the Court.

8. I will give the issues in controversy deliberate, impartial and studied analysis and consideration.

9. I will be considerate of the time constraints and pressures imposed upon the Court, Court staff and counsel in efforts to administer justice and resolve disputes.

Commissioners Court - Regular Session **22.**

Meeting Date: 12/11/2018

Replacement of Judge Gattis on CAPCOG

Submitted For: Cynthia Long **Submitted By:** Tammy Smith, Commissioner Pct. #2

Department: Commissioner Pct. #2

Agenda Category: Regular Agenda Items

Information

Agenda Item

Discuss, consider and take appropriate action to replace Dan A. Gattis, County Judge, with Commissioner-Elect Russ Boles to the Capital Area Council of Governments (CAPCOG) General Assembly effective following the Executive Committee Meeting of CAPCOG on Wednesday, December 12th, 2018.

Background

Fiscal Impact

From/To	Acct No.	Description	Amount

Attachments

No file(s) attached.

Form Review

Inbox	Reviewed By	Date
County Judge Exec Asst.	Wendy Coco	12/06/2018 10:26 AM
Form Started By: Tammy Smith		Started On: 12/05/2018 10:24 AM
Final Approval Date: 12/06/2018		

Commissioners Court - Regular Session **23.**

Meeting Date: 12/11/2018

Agreement of Consolidation of Maintenance of Birth and Death Records

Submitted For: Judy Hobbs **Submitted By:** Jessica Schmidt, J.P. Pct. #4

Department: J.P. Pct. #4

Agenda Category: Regular Agenda Items

Information

Agenda Item

Discuss and take appropriate action to approve the agreement for consolidation and maintenance of birth and death records for an efficient and uniform system between Williamson County Justice of the Peace Precinct 4 and the Williamson County Clerk and transfer the registrar duties effective January 1, 2019.

Background

Agreement for Consolidation of Maintenance of Birth and Death Records

Pursuant to House Bill 906, 70th Legislature – Regular Session, an agreement is made to consolidate birth and death records by having the Williamson County Clerk's office act as registrar for Justice of the Peace, Precinct #4, and the duty of registering birth and deaths transferred to the County Clerk effective January 1, 2019.

Fiscal Impact

From/To	Acct No.	Description	Amount

Attachments

Agreement JP 4 - County Clerk

Form Review

Inbox	Reviewed By	Date
County Judge Exec Asst.	Wendy Coco	12/05/2018 11:31 AM
Form Started By: Jessica Schmidt		Started On: 11/28/2018 10:35 AM
Final Approval Date: 12/05/2018		

JUDY SCHIER HOBBS
Justice of the Peace, Precinct 4
Williamson County, Texas

AGREEMENT FOR CONSOLIDATION OF MAINTENANCE OF BIRTH AND DEATH RECORDS

Pursuant to House Bill 906, 70th Legislature – Regular Session, an agreement is made to consolidate birth and death records by having the Williamson County Clerk's office act as registrar for Justice of the Peace, Precinct #4, and the duty of registering births and deaths transferred to the County Clerk effective January 1, 2019.

Approved by: _____
Judy Schier Hobbs, Justice of the Peace
Pct. 4, Williamson County, TX

Dated: November 29, 2018

Approved by: _____
Nancy Rister, County Clerk
Williamson County, Texas

Dated: November 29, 2018

Ratified by the Commissioners Court this _____ day of _____, 2018

_____
Dan A. Gattis, County Judge
Williamson County, Texas

211 W. 6th Street * P.O. Box 588, Taylor, Texas 76574 * (512)352-4155 * (512)238-2155 * FAX (512)238-2194

Commissioners Court - Regular Session **24.**

Meeting Date: 12/11/2018

Youth Mentoring Program Grant Resolution

Submitted By: John Pelczar, Juvenile Services

Department: Juvenile Services

Agenda Category: Regular Agenda Items

Information

Agenda Item

Discuss, consider, and take approproate action on th approval of the Youth Mentoring Program Grant Resolution for Juvenile Services.

Background

Juvenile Services is requesting the resolution for the Youth Mentoring Program be approved. This is the third year of the grant, which is provided through the Office of the Governor-Criminal Justice Division. The grant funding received will total $35,712 with no match requirement. The Juvenile Board previously approved the resolution, but new grant requirements now require the resolution be approved by the Commissioners Court.

Fiscal Impact

From/To	Acct No.	Description	Amount

Attachments

Youth Mentoring Resolution

Form Review

Inbox	Reviewed By	Date
Hal Hawes	Hal Hawes	11/29/2018 11:23 AM
County Judge Exec Asst.	Wendy Coco	11/29/2018 11:53 AM
Form Started By: John Pelczar		Started On: 11/29/2018 10:29 AM
Final Approval Date: 11/29/2018		

YOUTH MENTORNING PROGRAM RESOLUTION

STATE OF TEXAS
COUNTY OF WILLIAMSON

On this the 11th day of December, 2018, a duly called and lawfully convened meeting of the Williamson County Commissioners Court was held in the City of Georgetown, pursuant to the Texas Open Meetings Act. A quorum of the members were present, to wit:

(Insert names of Commissioners Court Members Present)

Where, among other matters, came up for consideration and adoption the following Resolution:

Whereas, the Williamson County Commissioners Court finds it is in the best interest of the citizens of Williamson County, that Williamson County Juvenile Services accept funding for the General Juvenile Justice and Delinquency Prevention Program Grant, Youth Mentoring Program, Grant Number 3079303; and

Whereas, the Williamson County Commissioners Court has considered the proposed application for State and Federal Assistance for said project, in the amount of $35,712 to be submitted to the Office of the Governor, Criminal Justice Division, Fund JJDP Program; and

Whereas, the Williamson County Commissioners Court agrees in the event of loss or misuse of the Criminal Justice Division funds, the Williamson County Commissioners Court assures that the funds will be returned to the Criminal Justice Division in full; and

Whereas, the Williamson County Commissioners Court has agreed that a designation of the title of an authorized official who is given the power to apply for, accept, reject, alter, or terminate a grant is hereby identified as the Williamson County Judge.

Therefore, Be It Resolved that the Williamson County Commissioners Court approves submission of the grant application for the General Juvenile Justice and Delinquency Prevention Program, Youth Mentoring Program, Grant Number 3079303, to the Office of the Governor, Criminal Justice Division.

The foregoing Resolution was lawfully moved by _____, duly seconded by _____, and duly adopted by the Williamson County Commissioners Court on a vote of _____ members for the motion and _____ opposed.

Dan A. Gattis
Williamson County Judge

_____
Signature of Williamson County Judge

December 11, 2018
Date Signed

Commissioners Court - Regular Session **25.**

Meeting Date: 12/11/2018

Vocational Traninig Program Grant Resolution

Submitted By: John Pelczar, Juvenile Services

Department: Juvenile Services

Agenda Category: Regular Agenda Items

Information

Agenda Item

Discuss, consider, and take appropriate action on the approval of the Vocational Training for Youth Program Resolution for Juvenile Services.

Background

Juvenile Services is requesting the resolution for the Voacational Training for Youth Program be approved. This is the third year of the grant, which is provided through the Office of the Governor-Criminal Justice Division. The grant funding received will total $36,000 with no match requirement. The Juvenile Board previously approved the resolution, but new grant requirements now require the resolution be approved by the Commissioners Court.

Fiscal Impact

From/To	Acct No.	Description	Amount

Attachments

Vocational Training Program Resolution

Form Review

Inbox	Reviewed By	Date
Hal Hawes	Hal Hawes	11/29/2018 11:23 AM
County Judge Exec Asst.	Wendy Coco	11/29/2018 11:53 AM
Form Started By: John Pelczar		Started On: 11/29/2018 10:47 AM
Final Approval Date: 11/29/2018		

VOCATIONAL TRAINING FOR YOUTH RESOLUTION

STATE OF TEXAS
COUNTY OF WILLIAMSON

On this the 11th day of December, 2018, a duly called and lawfully convened meeting of the Williamson County Commissioners Court was held in the City of Georgetown, pursuant to the Texas Open Meetings Act. A quorum of the members were present, to wit:

(Insert names of Commissioners Court Members Present)

Where, among other matters, came up for consideration and adoption the following Resolution:

Whereas, the Williamson County Commissioners Court finds it is in the best interest of the citizens of Williamson County, that Williamson County Juvenile Services accept funding for the General Juvenile Justice and Delinquency Prevention Program Grant, Vocational Training for Youth, Grant Number 3124303; and

Whereas, the Williamson County Commissioners Court has considered the proposed application for State and Federal Assistance for said project, in the amount of $36,000 to be submitted to the Office of the Governor, Criminal Justice Division, Fund JJDP Program; and

Whereas, the Williamson County Commissioners Court agrees in the event of loss or misuse of the Criminal Justice Division funds, the Williamson County Commissioners Court assures that the funds will be returned to the Criminal Justice Division in full; and

Whereas, the Williamson County Commissioners Court has agreed that a designation of the title of an authorized official who is given the power to apply for, accept, reject, alter, or terminate a grant is hereby identified as the Williamson County Judge.

Therefore, Be It Resolved that the Williamson County Commissioners Court approves submission of the grant application for the General Juvenile Justice and Delinquency Prevention Program, Vocational Training for Youth, Grant Number 3124303, to the Office of the Governor, Criminal Justice Division.

The foregoing Resolution was lawfully moved by _____, duly seconded by _____, and duly adopted by the Williamson County Commissioners Court on a vote of _____ members for the motion and _____ opposed.

Dan A. Gattis
Printed Name of Williamson County Judge

_____
Signature of Williamson County Judge

December 11, 2018
Date Signed

Commissioners Court - Regular Session **26.**

Meeting Date: 12/11/2018

Williamson County Interjurisdictional Wildfire Protection Plan

Submitted For: Jarred Thomas **Submitted By:** Jarred Thomas, Emergency Management

Department: Emergency Management

Agenda Category: Regular Agenda Items

Information

Agenda Item

Discuss, consider, and take appropriate action on the adoption of the Williamson County Interjurisdictional Wildfire Protection Plan and authorize the County Judge's signature to the plan along with the Emergency Management Coordinator and staff from the Texas A&M Forest Service to fully enact the plan.

Background

The Williamson County Office of Emergency Management with assistance from the Core Planning team, comprised of local emergency management agencies, select members of the Williamson County Fire Chief's association and other stakeholders, in conjunction with TetraTech developed a comprehensive wildfire mitigation plan to address the increasing threats within Williamson County. This plan provides details outlining both risk and reduction strategies to minimize the wildfire risk in Williamson County.

Fiscal Impact

From/To	Acct No.	Description	Amount

Attachments

Signature Page

Wildfire Protection Plan

Form Review

Inbox	Reviewed By	Date
County Judge Exec Asst.	Wendy Coco	11/28/2018 09:07 AM
Form Started By: Jarred Thomas		Started On: 11/27/2018 11:35 AM
Final Approval Date: 11/28/2018		

In accordance with Title I of the Healthy Forest Restoration Act of 2003

This document was prepared by the
Williamson County Office of Emergency Management
and Texas A&M Forest Service
and was completed on
December 4, 2018.

Dan Gattis

County Judge

Tom Boggus

Director
Texas A&M Forest Service

Jarred Thomas

Emergency Management
Coordinator

Mark Stanford

Fire Chief
Texas A&M Forest Service

Bruce Woods

Department Head, Mitigation and
Prevention
Texas A&M Forest Service

WILLIAMSON COUNTY INTERJURISDICTIONAL COMMUNITY WILDFIRE PROTECT PLAN

Williamson County Interjurisdictional Community Wildfire Plan Protection

PREPARED FOR

Williamson County
Office of Emergency Management
911 Tracy Chambers Lane
Georgetown, TX 78626

PREPARED BY

Tetra Tech, Inc.
216 16th Street
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ACKNOWLEDGMENTS

Funding for this project was provided by Williamson County and plan development was coordinated through the Williamson County Office of Emergency Management (OEM).

Williamson County

- Jarred Thomas, CEM, TEM, Director of Emergency Management Williamson County

Consultants

- Laura Johnston, Tetra Tech, Inc., Project Manager

Special Acknowledgments

Williamson County OEM wishes to thank the Williamson County Fire Chief's Association, CWPP Core Team and Stakeholder Group, Texas A&M Forest Service (TFS) and Kari Hines for their assistance and contributions in the development of this plan.

Special thanks to the volunteers that assisted in the wildfire assessments.

Need to add the volunteers that assisted in the assessments.

Signature Pages

EXECUTIVE SUMMARY

COMMUNITY WILDFIRE OVERVIEW

Williamson County's population has more than tripled in the last several decades, with a corresponding increase in new development occurring in forested areas that have a high risk of wildfire. The community has a vested interest in minimizing the hazard of wildfire in these areas. The community, through various forums, has expressed a desire to maintain forests with the purpose of reducing the hazard of wildfire, but are also diverse and healthy.

Given that resources to address this concern are limited, officials from Williamson County, local fire protection districts, state and federal forest agencies, cities, towns and others have joined forces to develop the Williamson County communities' first wildfire protection plan.

Early in the development of this first plan, participating entities agreed that it should be generally consistent with the Texas A&M/Forest Service Wildland Urban Interface Program, Mitigation and Prevention Department, Community Wildfire Protection Plan Guide (November 2012) as well as the national model for community wildfire protection planning, as set forth by the National Association of Counties. This national model for wildfire protection planning is an extension of the Healthy Forest Restoration Act authorized by the U.S. Congress in 2003.

This Williamson County Interjurisdictional Community Wildfire Protection Plan (CWPP) was developed in tandem with the Williamson County CWPP Core Team and the CWPP Stakeholder Committee established in early 2017. The Williamson County CWPP sets forth goals and objectives; actions and policies designed to reduce the risk and impact of wildfire in the County. Additionally, annexes for each of the participating fire protection districts are included with this plan. The goal is for the CWPP Core Committee, together with the fire district staff, to provide an annual review and refine the CWPP to meet the community's changing needs concerning wildfire protection. This plan envisions cooperation between various agencies, including the close collaboration between the County, local fire protection districts, the Texas A&M Forest Service (TFS), and the cities and towns.

1. INTRODUCTION

1.1 AUTHORIZATION

1.1.1 National

On August 22, 2002, President Bush established the Healthy Forests Initiative, directing the Departments of Agriculture and the Interior, and the Council on Environmental Quality, to improve regulatory processes to ensure more timely decisions, greater efficiency, and better results in reducing the risk of catastrophic wildland fires.

Destructive wildland fires in 2002 were a catalyst for the U.S. Congress to pass the Healthy Forests Restoration Act (HFRA) in 2003. The intent of the HFRA was to provide funding and guidance for better forest management practices throughout wildland areas and the wildland urban interface (WUI). One of the key outcomes of the HFRA was to incentivize communities to create a community wildfire protection plan (CWPP). An approved CWPP can influence and prioritize future funding for hazardous fuel reduction projects, including where and how federal agencies implement fuel reduction projects on federal lands. Over the past 2 years, administrative procedures and processes governing preparation of projects to reduce hazardous fuel and restore healthy ecological conditions on federal land have undergone many changes. These changes have resulted from the Healthy Forests Initiative (HFI), launched in 2002 to reduce administrative process delays implementing such projects, and from the HFRA, passed in December 2003. The HFRA provides improved statutory processes for hazardous-fuel reduction projects on certain types of at-risk National Forest System (NFS) and Bureau of Land Management (BLM) lands. The HFRA also provides other authorities and direction to help reduce hazardous fuel and restore healthy forest and rangeland conditions on lands under all ownerships.

1.1.2 Local

Wildfires in Texas are both a rural and urban issue. Since 1996, the State has seen significant fire seasons in seven out of the past ten years. In 2005 and 2006, more than 2.2 million acres have burned as a result of more than 29,000 fires. Of those fires, 85% were less than two miles from a community. In this same time period, $556 million in property has been lost.

To adequately protect the State, Texas needs to resolve the increasing statewide deficiency in firefighting resources—the State is in critical need of additional firefighters, fire coordinators, prevention and mitigation specialists, and heavy firefighting equipment.

The Texas Wildfire Protection Plan (TWPP) was funded in 1999 by the Texas Legislature as a pilot project at $4 million per year. However, per the State's TWPP, the funding for this highly successful pilot has been eroding since its inception. Currently, the original $4 million budget has been reduced nearly in half. By making a moderate investment in the TWPP—up front instead of after acres start burning—to prevent fires and mitigate the factors which cause wildfires, the lives and properties of Texans will be protected and saved from catastrophic loss.

1.2 CWPP PLANNING PROCESS

1.2.1 Plan Purpose

Williamson County has a documented history of droughts, flash floods, and wildfires. The threat of wildfire increases following flooding or periods sustained rainfall, which increases the growth of grasses and other

vegetation, followed by extended periods of drought. Future wildfires in the County are inevitable. This document, Williamson County's CWPP, is to help prepare for the inevitable.

Past wildfires—most notably the Horseshoe and Moonglow Fires in August and September of 2011—have dramatically changed the lives of hundreds of residents and fundamentally altered the fabric of numerous communities in the region. People are now more aware than ever of the risks associated with wildfire.

This is Williamson County's plan for turning increased awareness about wildfires into sustained action. The purpose of this plan is to identify areas where the hazard and potential community impact of wildfire is greatest and to guide and coordinate community efforts to reduce the risk of wildfire through public education, reduction of hazardous fuels, and reduction of structural ignitability. The key objectives of this plan include:

- To reduce the number (prevention) and severity (mitigation) of future wildfires in Williamson County
- To save hundreds of millions of dollars in property losses, environmental damages, firefighting costs, restoration expenses, infrastructure costs, and other financial impacts associated with catastrophic wildfire
- To save thousands of residents the pain and suffering associated with losing their home; their possessions; their loved ones; and their sense of place, security, and community
- To help restore Williamson County forests to good health
- To effectively and efficiently support the development of strong local Community Wildfire Protection Plan Annexes of individual fire protection districts
- To unite all communities of Williamson County in a collaborative effort to reduce the negative impacts of wildfire

1.2.2 **Plan Maps**

Wildfire maps included in this plan and the plan annexes were generated using www.texaswildfirerisk.com, report version: 4.0 developed by Texas Wildfire Risk Assessment project / Texas A&M Forest Service. Reports were generated for Williamson County as well as for each of the individual fire districts presented in the annex portion of this plan.

The Texas Wildfire Risk Assessment Portal (TxWRAP) provides a consistent, comparable set of scientific results to be used as a foundation for wildfire mitigation planning in Texas. Results of the assessment can be used to help prioritize areas in the state where tactical analyses, community interaction and education, or mitigation treatments might be necessary to reduce risk from wildfires. The TxWRAP products included in this report are designed to provide the information needed to support the following key priorities:

Identify areas that are most prone to wildfire

- Identify areas that may require additional tactical planning, specifically related to mitigation projects and Community Wildfire Protection Planning
- Provide the information necessary to justify resource, budget and funding requests

- Allow agencies to work together to better define priorities and improve emergency response, particularly across jurisdictional boundaries
- Increase communication with local residents and the public to address community priorities and needs
- Plan for response and suppression resource needs
- Plan and prioritize hazardous fuel treatment programs

The maps included in this plan were developed by Texas A&M Forest Service (using the Texas Wildfire Risk Assessment Portal (TxWRAP) and the Williamson County GIS Department

TXWRAP Product	Description
Wildland Urban Interface	Depicts where humans and their structures meet or intermix with wildland fuel
Wildfire Threat	Likelihood of a wildfire occurring or burning into an area
Characteristic Flame Length	Represents the distance between the tip and base of the flame
Surface Fuels	Contains the parameters needed to compute surface fire behavior characteristics
Vegetation	General vegetation and landcover types

It should be noted that risk assessments are a systematic process for identifying and assessing the range of elements that could lead to undesirable outcomes for a specific situation. TxWRAP, the Texas Wildfire Risk Assessment Portal, is an online public tool available at www. TexasWildfireRisk.com. Results of the online assessment can be used to help prioritize areas in the state where community interaction and education, or mitigation treatments might be necessary to reduce risk from wildfires. Since, data used to create maps in Texas Wildfire Risk Assessment Portal is prior to 2015, and due to the rapid growth in Williamson County over the last few years, the TxWRAP maps should be used as general guidance, and not be taken as exact conditions. Field assessments completed by the local fire departments verify information and should be used to direct any actions taken.

1.3 PLAN VISION

By actively implementing this plan, residents, communities, and organizations in Williamson County will protect citizens and first responders while significantly and increasing and improving wildfire mitigation and preparedness efforts in advance of wildfires to accurately reflect the high risk and enormous costs associated with wildfire in the county.

1.4 PLAN GOALS

This CWPP is an expansion of the Wildfire Chapter and actions documented in the recently adopted 2016 Williamson County Hazard Mitigation Plan. The main goals of the HFRA are to enhance life-safety for residents and responders and to mitigate undesirable fire outcomes to property, infrastructure, the environment and quality of life. This CWPP addresses these goals and guides the Williamson County community in implementation.

The goals of this plan are to:

1. Provide for the safety of residents and emergency personnel
2. Limit the number of homes destroyed by wildfire
3. Promote and maintain healthy ecosystems
4. Educate citizens about wildfire prevention

The objectives of this plan are to:

1. Complete wildfire risk assessments
2. Identify strategic fuels reduction projects
3. Address treatment of structural ignitability
4. Identify local capacity building and training needs
5. Promote wildfire awareness programs

1.5 THE PLAN

The Plan is intended to:

- Contains key ideas and useful information for a variety of audiences
- Provides an action plan for the Williamson County emergency management community
- Complements the existing local Williamson County Hazard Mitigation Plans
- Meets all HFRA and Texas A&M Forest Service (TFS) requirements

The Plan is not intended to:

- A regulatory document
- A scientific report
- A comprehensive report of all wildfire-related issues
- A fire management plan

1.6 THE PROCESS

Teams and Work Groups

The development of this plan is a product of the Williamson County Wildfire Core and Stakeholder Groups. The list of members for the Wildfire Core Group can be found below. Some Core Group members also participated in the Stakeholder Group.

Core Team

This plan is the product of a collaborative effort represented first and foremost by its Core Group. As required, this plan's Core Group includes representatives from local government, a local fire authority, and the TFS. In addition, a representative from the U.S. Forest Service participated. Individuals serving on the Core Group included:

Williamson County Interjurisdictional CWPP Core Committee Members	
Committee Member	Agency
Chad Berg	EMC, Georgetown
Jim Clarno	Lower Brushy Creek WCID
Dan Dodson	Sun City Texas Firewise Group
Ruth Haberman	Upper Brushy Creek WCID
Kari Hines	Texas A&M Forest Service
Scott Kerwood	Hutto Fire Rescue
Frank Martin	Wilco GIS
Dorothy Miller	EMC, Round Rock
Paul Ohlenbusch	Sun City Texas Firewise Group
George Strebel	Wilco GIS
Jarred Thomas	WilCo OEM
David Zwernemann	WilCo Engineering
John Cummings	EMC, Cedar Park

Stakeholder Group

While the Stakeholder Group meetings were open to the public, regular participants are included below. Sign-in sheets for all meetings can be found in Appendix A of this plan.

Williamson County Interjurisdictional CWPP Stakeholder Committee Members			
Committee Member	**Agency**	**Committee Member**	**Agency**
Jared Allen	NOAA, National Weather Service	**Chris Likon**	Public Safety GIS Analyst
David Arctur, PhD	University of Texas @ Austin	**Anthony Lincoln**	Liberty Hill Fire Liberty Hill Fire Department / Williamson County ESD No. 4
Bobby Belcher	Jarrell Fire Chief	**Cynthia Long**	Wilco PCT 2 Commissioner
Randy Bell	Wilco Parks Director	**James Mallinger**	Cedar Park Fire Chief
Chad Berg	EMC, Georgetown	**Frank Martin**	Wilco GIS
Gary Boyd	Wilco Environmental Program Director	**Mark McAdams**	ESD5
John Bright	EMC, Cedar Park	**Justin McInnis**	Assistant EM Coordinator, Hays County
Robert Chody	Williamson County Sheriff	**Dorothy Miller**	EMC, Round Rock
Blake Clampffer	Travis County Office of Emergency Management	**M Moellenberg**	Travis County Office of Emergency Management
Charles Dittman	RRFD	**Ryan Moeller**	WilCo and Cities Health District
John Dittman	RRFD	**Paul Ohlenhusch**	Sun City Texas Firewise Group
Dan Dodson	Sun City Texas Firewise Group	**Scott Parker**	Director, Wilco Emergency Communications
Jack Doebbler	District Coordingator, Texas Division of Emergency Management	**Daniel Pearson**	USGS
Pat Ekiss	Taylor Fire Chief	**Matt Porcher**	City of Austin
Craig Engelmann	USDA County Executive Director	**Warren Samuelson**	Texas Commission on Environmental Quality
Terron Evertson	Wilco Road and Bridge	**Cheryl Schneider**	Wilco Animal Services Director
Bill Gardner	Leander Fire Chief	**Carl Schwope**	U. S. Fish and Wildlife
Dan Gattis	Williamson County Judge	**Robert (Bobby) Shelton**	Florence Volunteer Fire Department
Nick Hampshire	Coupland Volunteer Fire Department	**John Sneed**	Wilco Emergency Services Senior Director

Williamson County Interjurisdictional CWPP Stakeholder Committee Members			
Committee Member	**Agency**	**Committee Member**	**Agency**
Marty Herrin	Williamson County Hazmat	**George Stebel**	Wilco GIS Manager
Kari Hines	Texas A&M Forest Service	**Adam Story**	Cedar Park Fire Chief
Billy Highes	Taylor Volunteer Fire Dept.	**John Sullivan**	Georgetown
Robert Isbell	Fire Chief, Round Rock	**Russell Summers**	RM/LISD
Justice Jones	Austin Fire Dept.	**Cooper Terrill**	Texas A & M
Kim Jones	Round Rock GIS	**Roger Thompson**	Fire Chief, City of Jarrell
Melanie Karns	Texas A&M Forest Service	**Jarred Thomas**	Wilco Office of Emergency Management
Scott Kerwood	Hutto Fire Rescue	**Steve Vaughn**	Brazos River Authority
David Kieschnick	Sam Bass Volunteer Fire Department	**Steven Vrable**	Sam Bass VFD
J Kiracofe	Jollyville Fire Department Chief	**Connie Watson**	Wilco Public Information Officer
Eric Kruegar	U.S. Fish and Wildlife	**Michael Wofford**	Wilco Hazmat
N Lang	Texas A&M	**B. Woods**	Texas A&M
Larry Madsen	Wilco Pct. 4 Commissioner		Williamson County

Notes:

EM	Emergency Management
EMC	Emergency Management Coordinator
ESD	Emergency Services District
GIS	Geographic Information System
NOAA	National Oceanic and Atmospheric Administration
LISD	Leader Independent School District
RRFD	Round Rock Fire Department
USDA	U.S. Department of Agriculture
USGS	U.S. Geological Survey
Wilco	Williamson County

2. COMMUNITY WILDFIRE PROTECTION PLAN STANDARDS

2.1 COMMUNITY AND AGENCY ENGAGEMENT IN THE DEVELOPMENT OF THIS COMMUNITY WILDFIRE PROTECTION PLAN

CWPPs must meet three basic criteria, per both the National Strategy and the Texas A&M Forest Service:

1. **Collaboration**: A CWPP must be collaboratively developed by local and state government representatives, in consultation with federal agencies and other interested parties.

   The CWPP development process requires that an entity establish a CWPP working group and hold regular meetings, tracking their progress along the way. At the first meeting, core members should discuss the need and process for developing a CWPP. Identify individuals who will conduct community wildfire hazard assessments, develop community maps, collect data and record CWPP meeting notes.

2. **Prioritized Fuel Reduction:** A CWPP must identify and prioritize areas for hazardous fuel reduction treatments and recommend the types and methods of treatment that will protect one or more at-risk communities and essential infrastructure.

3. **Treatment of Structural Ignitability**: A CWPP must recommend measures that homeowners and communities can take to reduce the ignitability of structures throughout the area addressed by the plan.

The area covered by a CWPP usually includes communities or parts of communities. This CWPP is developed at the Williamson County level with annexes for each of the fire protection districts in the County. Therefore, this plan addresses these requirements with a greater number of participants than some previous community plans. As a result, information included in this plan will be accessible to other communities in the County as they prepare their CWPPs. This Williamson County Interjurisdictional CWPP provides a higher overview of wildfire issues, concerns, and risk reduction solutions throughout the County. The expectation of the leadership of this plan is a set of common countywide strategic goals accompanied with specific target projects at the community level to achieve those goals.

Information from the Williamson County Interjurisdictional CWPP is intended to be a resource to support Williamson County, its cities and fire protection districts in the development of their own general plans and local hazard mitigation plans. Land use planning that incorporates provisions for fire-resilient design in WUI areas has been shown to dramatically improve public safety and reduce fire losses.

The value of CWPPs is in the collaboratively developed information and recommendations that can identify and guide activities that mitigate wildfire risk and hazard. CWPPs alone provide no authority to enforce findings and conclusions. The Williamson County Interjurisdictional CWPP can be used by government entities as a reference to guide land use planning and promulgate codes and ordinances in response to its recommendations.

3. COMMUNITY WILDFIRE RISK

3.1 COMMUNITIES AT RISK

Fire danger consists of the various factors of fuels, weather, topography and risk combined to assess the daily fire potential on an area. The most commonly accepted definition of fire danger, per the Texas A&M Forest Service, is "the resultant descriptor of the combination of both constant and variable factors which affect the initiation, spread and difficulty of control of wildfires on an area".

Texas Wildfire Risk Assessment Portal, or TxWRAP, is the primary mechanism for the TFS to deploy risk information and create awareness about wildfire issues across the state. TxWRAP is comprised of a suite of web tools tailored to support specific workflow and information requirements for the public, local community groups, government officials, professional hazard mitigation planners, and wildland fire managers. Collectively these tools provide the baseline information needed to support mitigation and prevention efforts across the state.

Wildland Urban Interface Fire Hazard and Environment

On the national level, following the establishment of the National Fire Plan via Executive Order developed in August of 2000 in response to the 2000 national wildfire season, areas throughout the U.S. were identified to be at high risk from wildfire. Subsequently, these locations were targeted for hazardous fuel reduction projects designed to reduce this risk. Communities across the nation that are considered to have a WUI have been identified and this list is published in the *Federal Register*.

Loss of structures due to wildland fires has been attributed to many factors, one of which is the proximity of hazardous fuels to homes and communities. During periods of hot, dry weather, the buildup of vegetation that has occurred on some federal, state, and private lands in the vicinity of communities poses a potentially high risk of damage to homes and other structures, disruption to the local economy, or loss of life.

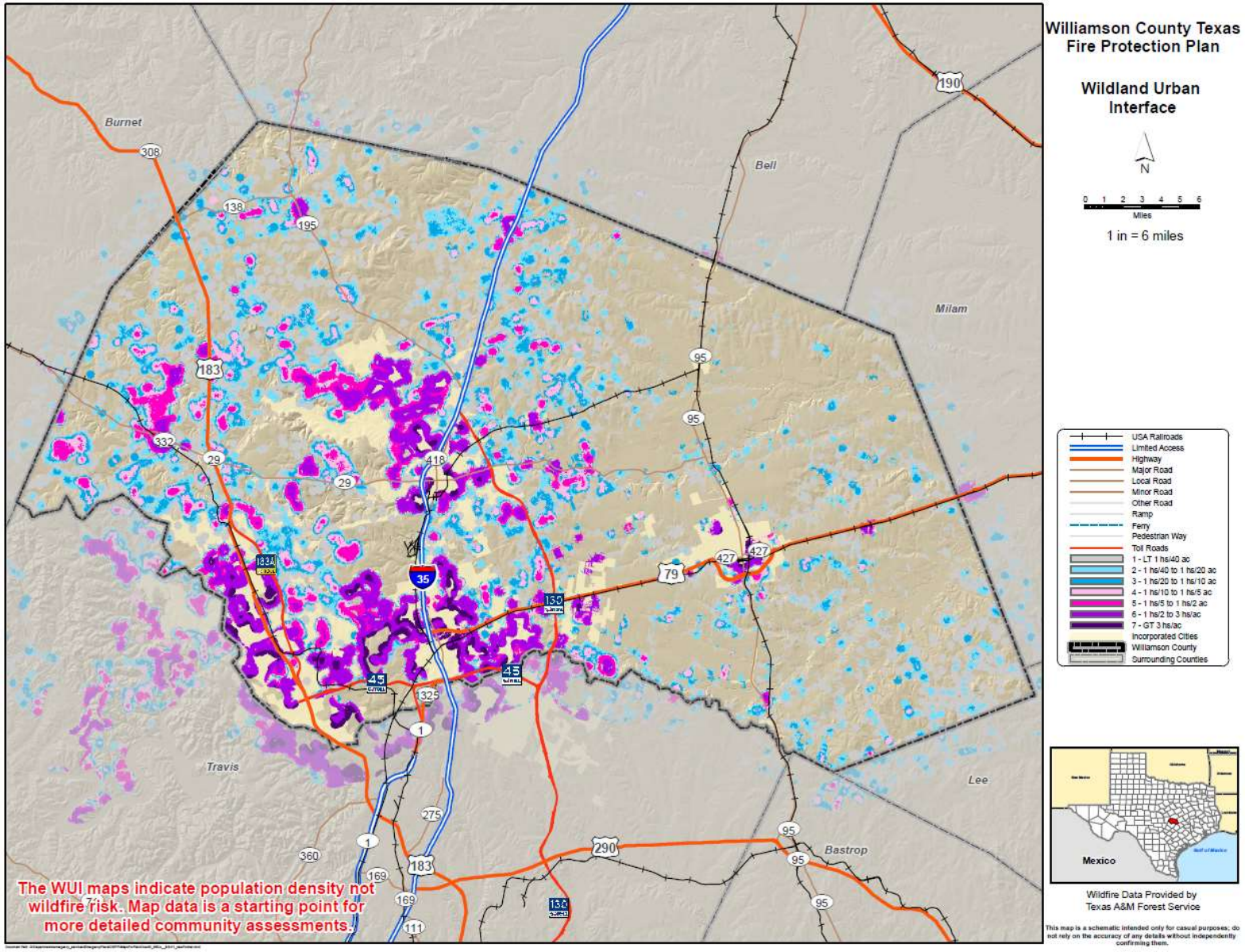
Other factors—including weather conditions and patterns, and the hazardous fuels conditions in the immediate vicinity of homes, businesses, and other structures—play important roles in the spread of wildland fire. Reducing hazardous fuel near communities may reduce, but not eliminate, wildlife risks to these communities. Some risk is inherent to communities that exist in fire-dependent ecosystems. Private landowners may help reduce this risk by creating defensible space around their homes and businesses, and by using fire-resistant materials in building those structures. Without such precautionary measures, fuel reduction on federal land in the vicinity may be ineffective in significantly reducing community risk.

Per the TFS, "The WUI is described as the area where structures and other human improvements meet and intermingle with undeveloped wildland or vegetative fuels. Population growth within the WUI substantially increases the risk from wildfire. In Texas nearly 85% of wildfires occur within two miles of a community." Texas is one of the fastest growing states in the nation, with much of this growth occurring adjacent to metropolitan areas. This increase in population across the State will impact counties and communities that are located within the WUI.

The TFS WUI dataset is derived using advanced modeling techniques based on the Where People Live dataset and LandScan USA population count data available from the Department of Homeland Security, Homeland Security Infrastructure Program Freedom dataset. WUI is simply a subset of the Where People Live dataset. The primary difference is populated areas surrounded by sufficient non-burnable areas (i.e., interior urban areas) are removed from the Where People Live dataset, as these areas are not expected to be directly impacted by a wildfire.

The Williamson County Wildland Urban Interface is provided in Figure 3-1 and indicates population density (not wildfire risk) in the Wildland Urban Interface (WUI). The Wildland Urban Interface is defined by Texas A&M FS as the area where developed areas intermingle with undeveloped areas. It is the area adjacent to property where actions can be taken to prevent damage or loss from wildfire. Texas A&M FS reports that here are over 14,500 communities at risk of wildfire in Texas. Training community leaders to work with local residents to develop and implement local wildfire preparedness programs is the best strategy for reaching as many people as possible. Wildland urban interface, or WUI, specialists are well-trained professionals that provide a wide range of services to the public, as well as community leaders with cities, counties and other agencies.

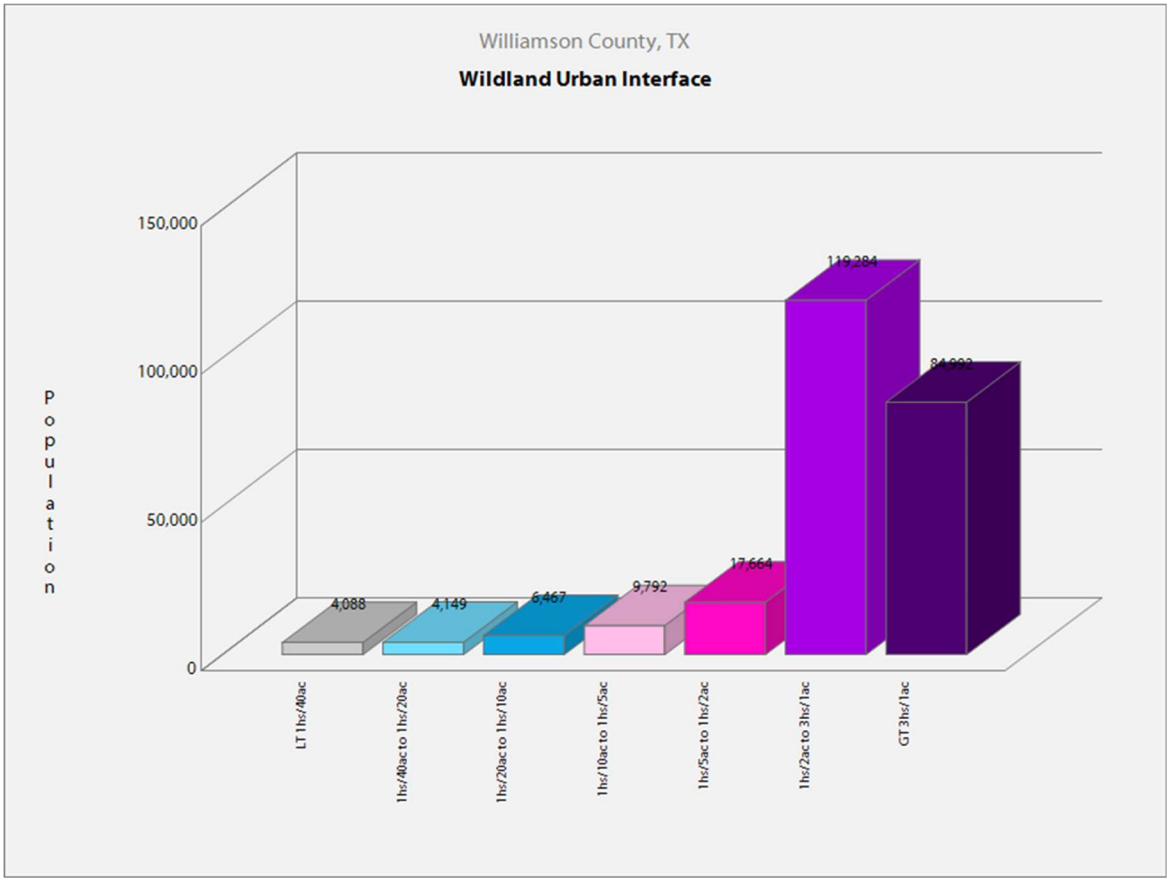
Figure 3-1 Williamson County Wildland Urban Interface



Based on the Texas A&M Forest Service Risk Assessment Tool for the Williamson County, TX project area, estimate that 246,436 people or 60% of the total project area population of 410,345 live within the WUI. Proportionately adjusting that rate for the current population of 508,514 concludes that more than 305,000 Williamson County residents currently live within the WUI area.

As the percent of population continues to increase within the WUI in Williamson County the loss of structures due to wildland fires could increase. Efforts should be considered to mitigate this potential increase of conflict points in individual communities as well as unincorporated areas of the County.

Figure 3-2. Williamson County Wildland Urban Interface



The TFS 2011 Wildfires Report indicated that wildfire activity in Texas has increased during the past two decades, requiring the extended mobilization of fire suppression resources. According to TFS experts, the State can expect this trend to continue for years to come. Population growth and development place more Texans at risk every year as cities and towns expand into previously rural areas.

As changes occur in weather cycles, population and land use, Texas wildfires have become larger and more difficult to contain. Significant Texas wildfire seasons occurred in the years noted in the history of wildfire events and disaster declarations following and in Table 3-1.

With 60% of the population of Williamson County estimated to be living in the WUI area, the development of a CWPP is critical. This CWPP includes practical, realistic and implementable wildfire mitigation actions minimizing the potential risk and impacts to residents, businesses and infrastructure in Williamson County.

4. HISTORICAL BACKGROUND

Add intro explaining the predecessor plans?? Including the HMP? And that this outcomes are incorporated into this plan?

4.1 WILLIAMSON COUNTY HAZARD MITIGATION PLAN – WILDFIRE PLANNING PROCESS SUMMARY

The Williamson County Hazard Mitigation Plan received final approval from the Federal Emergency Management Agency (FEMA) on February 9, 2017. A planning team was assembled to provide technical support for the plan update, consisting of Texas Colorado River Floodplain Coalition representatives, key county and city staff, and a team of technical consultants. The first step in developing the plan update was to re-establish a planning partnership. Planning partners participating in the update were the Cities of Cedar Park, Florence, and Hutto. Both a Core Committee and a Steering Committee were assembled to oversee the plan update, consisting of planning partner staff and community representatives from the planning area. Coordination with other county, state, and federal agencies involved in hazard mitigation occurred throughout the plan update process.

Mitigation actions designed to reduce the potential impacts from natural hazards including wildfires were presented in this plan. Mitigation actions are activities designed to reduce or eliminate losses resulting from natural hazards. The update process resulted in the identification of 40 mitigation actions targeted for implementation by individual planning partners. The Steering Committee ranked the mitigation actions in order of priority, with 1 being the highest priority. Table 4-1 on the following page lists the countywide proposed mitigation actions which were included in the hazard mitigation plan that address wildfire education, mapping and other potential impacts of wildfires.

Of special note in the hazard migration plan, is Mitigation Action #11 entitled: Community Wildfire Protection Plan. Williamson County representatives proposed that County personnel collaborate with public safety professional, building associations, homeowner's associations, the TFS, and public information professionals to develop a comprehensive CWPP to include public education, fuels reduction, residential mitigation, and response recommendations. The County prioritized this action as their number two prioritized action. This plan is the implementation of that priority.

Table 4-1. Williamson County Hazard Mitigation Plan's Countywide Mitigation Actions Related to Wildfire

Action No.	Title	Description	Mitigation Action Ranking
Williamson County			
13	All-hazards mapping	Collaborate with public safety professionals, GIS, hazard-specific subject matter experts, private partners, and CIKR owner/operators to obtain data and create a comprehensive all-hazards mapping solution. Additional GIS tools may be required to facilitate use of the data.	1
11	Community Wildfire Protection Plan	Collaborate with public safety professional, building associations, homeowner's associations, forest service, and public information professionals to develop a comprehensive CWPP to include public education, fuels reduction, residential mitigation, and response recommendations.	2
6	Critical infrastructure THIRA	As a part of the County COOP planning process audit and map each facility relating to the potential risk to natural hazards. Develop a prioritization list and strategies for mitigating potential risks and hazards.	7
8	Comprehensive evacuation planning	Collaborate with public safety professional, traffic engineers, public information professionals and homeowner's associations to develop comprehensive plans and messaging. Develop area-specific plans based upon local THIRA.	8
9	Develop and establish a comprehensive volunteer program	Establish and train a core group of CERT instructors. Develop and implement a comprehensive CERT program to include training, continuing education, exercise program, and activation procedures.	9
4	Wildfire fuels reduction	Perform a THIRA on each property and develop a priority list of properties requiring mitigation actions. Following WHP assessments perform the fuels reduction and create shaded fuel breaks. Upon completion, prescribed burning should take place where appropriate to lower fuel loads.	11
12	Install "Burn Ban" or "Fire Danger" signs along major county roadways	Appropriate signage would be placed strategically through Williamson County, primarily in the rural areas, by County Road and Bridge personnel. During burn bans, the signs could be positioned by local fire departments and/or road and bridge personnel.	12
1	Purchase NOAA All Hazard Radios	Purchase radios and disperse to residents to use for hazard events in the area.	13
2	Educate homeowners on hazards	Educate homeowners on how to mitigation their homes from these hazards on county website and public forums.	14

Wildfire mitigation actions were also developed for the three participating communities: the Cities of Cedar Park, Florence, and Hutto. They were also ranked by the individual communities. They are listed in Table 4-2.

Table 4-2. Mitigation Actions Related to Wildfire for the Cities of Cedar Park, Florence, and Hutto

Action No.	Title	Description	Mitigation Action Ranking
City of Cedar Park			
7	Education to homeowners on all hazards	Obtain printed detailed instruction checklist and other education brochures for homeowners to mitigate their homes from all hazards. Distribute through information booths at all public events. Social media outreach as well as an informative webpage with links to severe weather-related agencies.	1
8	Mobile Command Center/Emergency Operations Center	Receive funding approval by City Leadership and or apply for funding through a grant process.	2
6	Wildfire Mitigation Plan	Create an independent Wildfire Mitigation Plan for the City. This plan will identify all the wildfire interface areas and high fuel areas in the City.	5
2	Adopt and enforce updated building codes to reduce damages	Adopt 2015 IBC. Stricter building codes goes to mitigate identified hazards, such as tornado, high wind, and impact resistant materials (windows, doors, roof bracings); dry-proofing public buildings for flooding; upgrading to higher standard insulation for extreme heat and winter storms; installing lighting rods and grounding systems on public buildings; retrofitting to low-flow plumbing and replacing landscaping with drought and fire resistant plants; stricter codes for hail and fire resistant roofing and siding; implementing higher standards for foundations, and upgrading requirements for construction beams, brackets and foundations to mitigation impacts of earthquake and expansive soils.	6
3	Wildfire training	Continued training of Cedar Park firefighters in wildlife response is required.	7
City of Florence			
2	Upgrade alert system	Upgrade alert systems and disseminate information on warnings.	2
1	Public information and education	Public awareness education through outreach programs for homeowners to mitigate their homes from all hazards.	3
6	Increase fire suppression capabilities	Increase capability of fire suppression, equipment, and training.	4
5	Drainage structure	Install new larger capacity infrastructure to mitigate flooding near Beck Street and West Main Street.	5
3	Update building codes	The City of Florence currently has the 2006 IBC and IRC editions, and the 2006 edition of the National Electric Code effective August 2009. These need to be updated to 2012 International Building Codes. Stricter building codes goes to mitigate identified hazards, such as tornado, high wind, and impact resistant materials (windows, doors, roof bracings); dry-proofing public buildings for flooding; upgrading to higher standard insulation for extreme heat and winter storms; installing lighting rods and grounding systems on public buildings; retrofitting to low-flow plumbing and replacing landscaping with drought and fire resistant plants; stricter codes for hail and fire resistant roofing and siding; implementing higher standards for foundations, and upgrading requirements for construction beams, brackets and foundations to mitigation impacts of earthquake and expansive soils.	6
7	Strengthen zoning ordinance to encourage higher densities only outside of known hazard areas	Strengthening the zoning ordinance would decrease the chance of property damage to new and existing structures.	7
9	Develop a Capital Improvements Plan	A Capital Improvements Plan would provide a forecast of funds available for capital improvement projects and equipment purchases for long-term use.	9
City of Hutto			
8	Create an evacuation plan, with multiple routes for varying scenarios	Safe routes will be identified for various emergency scenarios, and the designated emergency coordinator will publish these to the appropriate entities.	1
7	Educate homeowners on all hazards	Educate homeowners of how to mitigation their homes from these hazards on city website and public forums.	6
1	Establish and implement an agricultural zoning district to preserve areas of land in high-hazard areas	Establish an Agricultural Zoning District Ordinance to preserve open space of land in high-hazard areas.	7
2	Purchase NOAA All Hazard Radios	Purchase NOAA All Hazard Radios to be used in city offices and residents	8

4.2 HISTORICAL CONTEXT FOR WILDFIRE PROTECTION

Pre-disaster mitigation is critical to minimizing loss during a wildfire. Texas has had its share of devastating wildfires in the past decade. The 2011 wildfire season was comprised of a series of destructive wildfires in Texas, United States that occurred primarily in the late summer and fall of the 2011 fire season. During 2011 in Texas, around 31,453 fires burned 4,000,000 acres (about double the previous record), 2,947 homes (1,939 of which were destroyed over the Labor Day weekend), and over 2,700 other structures. Of all the acreage burned in the United States in 2011, 47.3% was in Texas. The fires were particularly severe due to the drought that covered the State and the southern U.S., and were exacerbated by the unusual convergence of strong winds, unseasonably warm temperatures, and low humidity. Overall, wildfires in Texas during 2011 caused $510.927 million in damages, caused six fatalities, with an additional 62 people that were injured.

Timber lost to drought and wildfire in 2011 could have produced $1.6 billion worth of products, resulting in a $3.4 billion economic impact in eastern Texas. A trend is emerging that fires are becoming less numerous but more destructive. The Bastrop County Complex Fire in central Texas was the most destructive wildfire in Texas history, striking areas of Bastrop County in September and October 2011. Three separate fires started on September 4, 2011, as a result of strong winds caused by nearby Tropical Storm Lee, and merged into one large blaze that burned east of the city of Bastrop. Two people were killed by the fire, which destroyed 1,673 homes and inflicted an estimated $325 million of insured property damage.

Per TFS, “The 2011 wildfire season was unique in its scope, duration and complexity. But while the severity of the wildfire season and number of homes threatened will change from year to year, the fundamental reasons homes burn remain the same. There are simple and inexpensive measures that residents can take to prepare for wildfire and increase the chances of home survivability. Resources also are available for community leaders who want to take action and empower their residents as partners in wildfire preparedness.”

Until about 2000 Williamson County’s threat of wildfire may have been high but the risk was low. It’s been only within the past 15 years that the explosive growth into the WUI has occurred resulting in increases in both wildfire risk and wildfire threat. While the concept of wildfire mitigation and implementation of mitigation measures is relatively new to the County, the record setting growth in Williamson County dictates that the County take a proactive stance to address wildfire mitigation issues.

5. COMMUNITY CHARACTERISTICS AND DEMOGRAPHICS

5.1 LOCATION AND GEOGRAPHY

This section provides an overview of the location and geography of Williamson County. Table 5-1 provides a description of the location, boundaries and significant features.

5.1.1 Geography

Table 5-1. Location and Geography of Williamson County

Williamson County	
Latitude/longitude	30.7592° N, 97.6982° W
Plan area and unit boundaries	Williamson County covers 1,134 square miles. It is located in Central Texas (Figure 5-1) and it is a part of the Austin-Round Rock Metropolitan Area. The City of Round Rock is the largest city and the City of Georgetown holds the county seat for Williamson County.
Frontage and/or perimeter road(s), and railroads	U.S. Highway 183, Interstate Highway 35, and State Highways 95 and 130 (toll road) are the major north-south roads. U.S. Highway 79 and State Highway 29 cross the county east and west. The county is also crossed by four railroads, the Southern Pacific, the Missouri-Kansas-Texas, the Union Pacific, and the Georgetown.
Rivers and creeks	The San Gabriel River and Brushy Creek flow through the county in a west-east direction.

5.1.2 **Location**

Figure 5-1 indicates the location of the county relative to the State of Texas.Figure 5-1. Location of the Williamson

County Planning Area within the State of Texas

5.1.3 **Land type and open space**

The County is a mix of urban development, rural non-agriculture and agricultural consisting of farming and cattle ranching. The County is split into two geographical regions along the Balcones Escarpment. The western half of the County is comprised of rocky limestone, limited topsoil, native trees and the invasive Mountain Juniper. The eastern half is primarily an extension of Coastal Prairie comprised of expansive soils and limited native trees. The Balcones Canyonlands National Wildlife Refuge is located in the western part of Williamson County and conserves habitat for wildlife in the Texas Hill Country.

According to the Texas A&M Institute of Renewable Natural Resources survey on land trends, Texas has been losing open space lands between 1997 and 2012, and Williamson County has lost 8.49% of open space land to the growing Austin-Round Rock Metropolitan Area.

5.2 **CLIMATE**

Williamson County is hot and humid in the summer and cool in winter when an occasional surge of cold air causes a sharp drop in otherwise mild temperatures. Average temperatures range from 95 degrees Fahrenheit (°F) in the summer to 38.2°F in the winter. The Western Regional Climate Center reports data from the Taylor weather station in Williamson County. Table 5-2 contains temperature summaries for the station. Figure 5-2 graphs the daily temperature averages and extremes from January 1, 1929, through August 31, 2001.

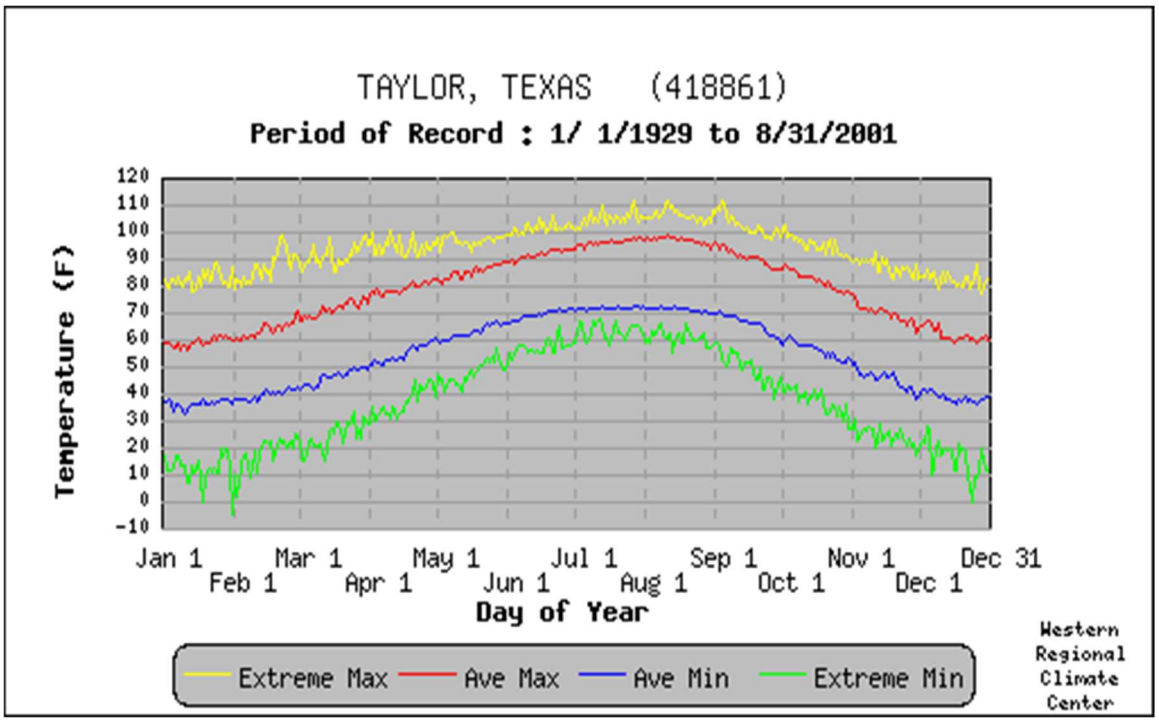
Table 5-2. Williamson County Temperature Summaries from 1929 to 2001

Climate Measure Period of Record 1929-2001	Temperature (and Date)
Winter[a] Average Minimum Temperature[b]	38.2°F
Winter[a] Mean Temperature[b]	50.0°F
Summer[a] Average Maximum Temperature[b]	95.0°F
Summer[a] Mean Temperature[b]	83.0°F
Maximum Temperature (and Date)	112°F (July 27, 1954, and September 4, 2000)
Minimum Temperature (and Date)	-5°F (January 31, 1949)
Average Annual Number of Days >90°F	117.3°F
Average Annual Number of Days <32°F	31.9°F

Notes:
a. Winter: December, January, February. Summer: June, July, August
b. Temperatures are in degrees Fahrenheit
°F Fahrenheit
Source: Western Regional Climate Center, Taylor Weather Station

Source: Western Regional Climate Center, http://www.wrcc.dri.edu/cgi-bin/cliMAIN.pl?tx8861

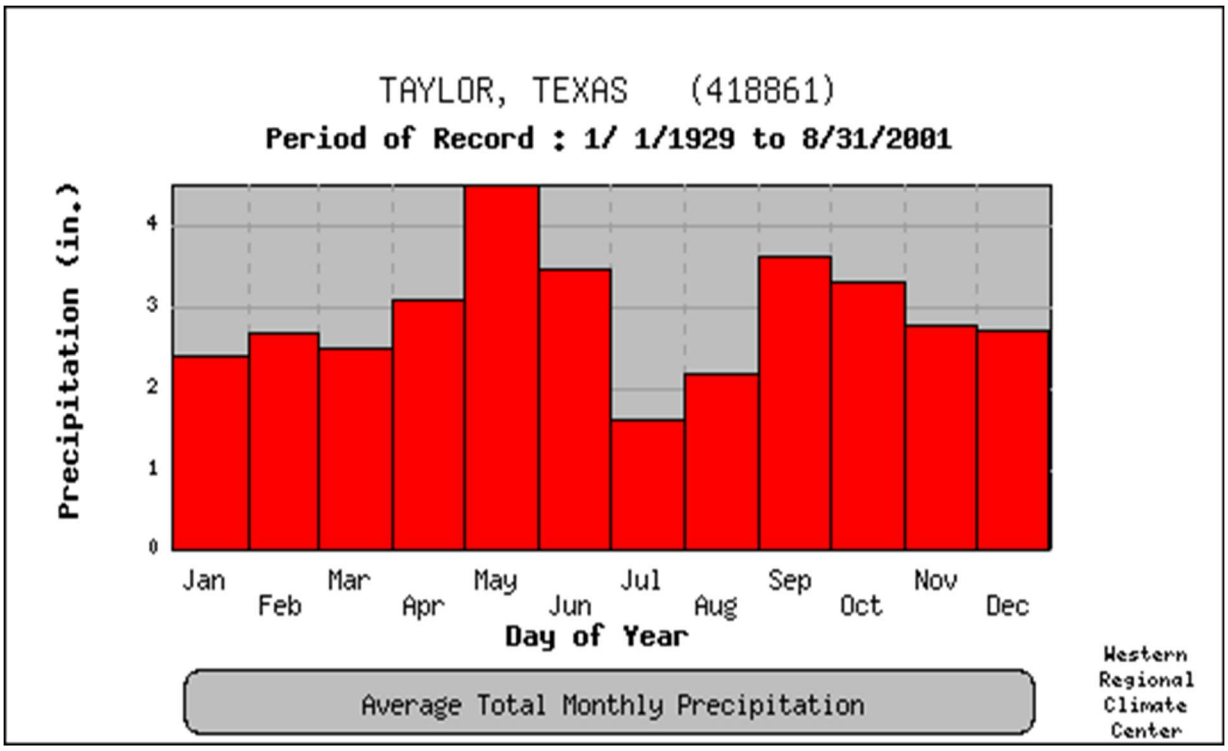
Figure 5-2. Monthly Temperature Data (1929-2001)



Rainfall in Williamson County is uniformly distributed throughout the year, reaching a slight peak in spring. Snowfalls are infrequent. Precipitation is highest in May. The average annual precipitation is 34.68 inches. Severe thunderstorm occur mostly in the spring. Figure 5-3 shows the average monthly precipitation in Williamson County.

Source: http://www.wrcc.dri.edu/cgi-bin/cliMAIN.pl?tx8861

Figure 5-3. Average Monthly Precipitation (1929-2001)



5.3 WILLIAMSON COUNTY WILDFIRE HISTORY

Since the mid-1990s, Texas has experienced larger and more complex wildfires and extended wildfire seasons, which have challenged the ability of state and local resources to protect citizens and their property. At the root of this evolving situation is a change in the climate cycle that increases the occurrence of drought. In 2011, Texas experienced the worst one-year drought in recorded state history (dating back to 1895). The result was devastating wildfires and massive destruction. But the 2011 drought was not an isolated event. In Texas, droughts have been occurring with increasing severity since 1996. One-year droughts were recorded in 1996, 1998, 1999, 2000 and 2001. Each year, the occurrence of large and complex wildfires mimicked the scope and intensity of the droughts.

The TFS reports that 80% of wildfires in Texas occur within two miles of a community. That means 80% of wildfires could pose a threat to life and property. They further report that it can take less than half an hour for fire to travel two miles, leaving residents very little time to evacuate. It's imperative communities prepare their businesses, residents, home and families long before a fire ignites.

5.3.1 Past Events

Table 5-3 shows the locations of federally reported wildfires in Williamson County and participating communities, documented by federal and state agencies from 1980 through 2014. Recent fires larger than 50 acres are listed in The locations of past wildfires in each partner community are shown on Figure 5-4.

Table 5-3. Federal Disaster Declarations in Williamson County

FEDERAL DISASTER DECLARATIONS IN WILLIAMSON COUNTY		
Disaster Declaration	**Description**	**Incident Date**
DR-4029	Wildfires	8/30/2011 - 12/31/2011
FM-2963	Moonglow Fire	9/5/2011 – 9/5/2011
FM-2949	Horseshoe Fire	8/15/2011 – 8/15/2011
FM-2922	Grand Mesa Fire	6/16/2011 – 6/19/2011
FM-2785	Florence Fire	8/7/2008 – 8/14/2008
EM-3284	Wildfires	3/14/2008 - 9/1/2008
DR-1624	Extreme Wildfire Threat	11/27/2005 – 5/14/2006
EM-3142	Extreme Fire Hazards	8/1/1999 – 12/10/1999
EM-3113	Extreme Fire Hazard	8/30/1993 – 11/15/1993

Note: Federal disaster declarations are coded as follows: DR = Major Disaster Declaration; FM = Fire Management; EM = Emergency Declaration

Source: FEMA Disaster Declarations Summary - Open Government Dataset (http://www.fema.gov/media-library/assets/documents/28318?id=6292)

State Level Wildfire Historical Data

- 1996: 2,808 wildfires burned 226,575 acres *
- 1998: 2,793 wildfires burned 197,571 acres *
- 2000: 2,758 wildfires burned 211,939 acres *
- 2006: 23,198 wildfires burned 2 million acres and destroyed 413 homes
- 2008: 20,482 wildfires burned 1.6 million acres and destroyed 256 homes
- 2009: 17,488 wildfires burned 726,502 acres and destroyed 436 homes
- 2011: 31,453 wildfires burned 4 million acres and destroyed 2,947 homes

Table 5-4. Federally Reported Wildfires Greater than 50 Acres from 1980 to 2014 in Williamson County and Participating Communities

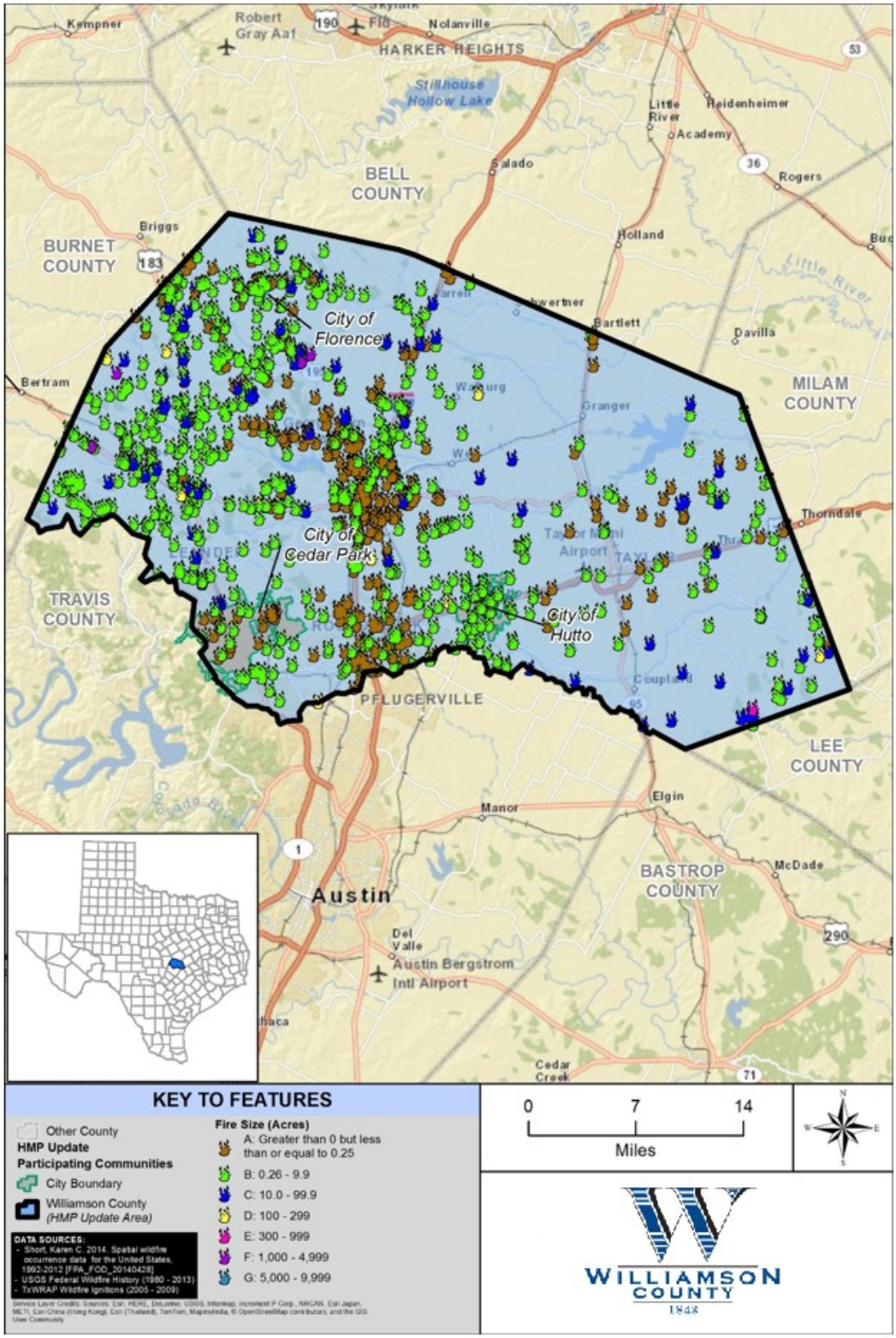
Historic Wildfire Events in Williamson County and Participating Communities (50+ Acres) (1980-2014)				
Fire ID	**Name**	**Cause**	**Start Date**	**Acres Burned**
654495	N/A	Debris Burning	2/17/1994	90
200421561AZ6Q	Big James	Human	1/26/2004	184.4
651451	N/A	Debris Burning	1/28/2004	290
3364	Gower Ranch	Equipment use	6/26/2005	70
27789	County Land	Miscellaneous	1/3/2006	350
62792	State Highway 95	Miscellaneous	7/27/2006	50

Historic Wildfire Events in Williamson County and Participating Communities (50+ Acres) (1980-2014)				
Fire ID	**Name**	**Cause**	**Start Date**	**Acres Burned**
200721561C9SD	Dove Fire	Human	2/24/2007	90
112787	Jarrell County Road 311	Miscellaneous	12/22/2007	50
72846	Walburg Fire	Miscellaneous	1/12/2008	123
693278	N/A	Miscellaneous	1/29/2008	1,400
73300	Lobo Fire	Smoking	3/25/2008	175
200821561EE2T	Robinson Fire	Human	8/4/2008	86.2
200821561EFG3	Highway 195 Fire	Human	8/7/2008	1,412.2
74083	Florence	Miscellaneous	8/7/2008	1,452
74185	Knight Branch	Miscellaneous	10/19/2008	120
170449	Highway 29 & County Road 203	Miscellaneous	12/27/2008	1,000
201338985	Hycrest Fire	Powerline	8/11/2011	132
FM-2963*	Moonglow Fire (the largest per-acre home loss fire in Texas history)	Human	9/5/2011	Approx.84 acres *16 homes destroyed
FM-2949	Horseshoe Fire		2011	30 acres *15 homes destroyed and multiple vehicles
FM-2922	Grand Mesa Fire		2011	

Source: TxWRAP (https://www.texaswildfirerisk.com/), USGS (http://wildfire.cr.usgs.gov/firehistory/data.html), USDA (http://www.fs.usda.gov/rds/archive/Product/RDS-2013-0009.2/)

Notes:
a. Table may list more events than are shown on related figures since some recorded events do not include specific geographic coordinates (GIS-enabled data) for precise graphical representation.
N/A Not Applicable

Figure 5-4. Historic Wildfires By Location And Acreage



5.4 LOCATION

According to the TFS CWPP, nearly 85% of wildfires in Texas occur within two miles of a community. These wildfires pose a threat to life and property. There are approximately 14,000 communities in Texas that have been identified as "at risk" for potentially devastating fires by the Forest Service.

Texas is one of the fastest growing states in the nation. Much of this growth is occurring in the WUI area, where structures and other human improvements meet and mix with undeveloped wildland or vegetative fuels. Population growth within the WUI substantially increases the risk from wildfires. For Williamson County, the TxWRAP estimates that 246,436 people or 60% of the total county population (410,345) live within the WUI. The WUI layer reflects housing density depicting where humans and their structures meet or intermix with wildland fuels.

The TxWRAP report for Williamson County and the participating communities maps the WUI Response Index, which is a rating of the potential impact of a wildfire on people and their homes. The key input, WUI, reflects housing density (houses per acre) consistent with Federal Register National Standards. The TxWRAP report states that the location of people living in the WUI and rural areas is essential for defining potential wildfire impacts to people and homes.

According to the TxWRAP report for Williamson County, wildfire Values Response Index (VRI) layer reflects a rating of the potential impact of a wildfire on values or assets. The VRI is an overall rating that combines the impact ratings for WUI (housing density) and Pine Plantations (pine age) into a single measure. VRI combines the likelihood of a fire occurring (threat) with those areas of most concern that are adversely impacted by fire to derive a single overall measure of wildfire risk.

The TxWRAP report for Williamson County maps the Community Protection Zones (CPZ), which represent those areas considered highest priority for mitigation planning activities. CPZs are based on an analysis of the "Where People Live" housing density data and surrounding fire behavior potential. "Rate of Spread" data is used to determine the areas of concern around populated areas that are within a two-hour fire spread distance.

Finally, wildfire threat or Wildfire Hazard Potential (WHP) is the likelihood of a wildfire occurring or burning into an area. Threat is calculated by combining multiple landscape characteristics including surface and canopy fuels, fire behavior, historical fire occurrences, weather observations, terrain conditions, and other factors. On its own, WHP is not an explicit map of wildfire threat or risk, but when paired with spatial data depicting highly valued resources and assets such as structures or power lines, it can approximate relative wildfire risk to those specific resources and assets. WHP is also not a forecast or wildfire outlook for any particular season, as it does not include any information on current or forecasted weather or fuel moisture conditions. It is instead intended for long-term strategic fuels management and appropriate for regional, county, or local protection mitigation or prevention planning.

5.5 ENVIRONMENT

Fire is a natural and critical ecosystem process in most terrestrial ecosystems, dictating in part the types, structure, and spatial extent of native vegetation. However, wildfires can cause severe environmental impacts:

- **Soil Erosion** – After a fire, the protective covering provided by foliage and dead organic matter is removed, leaving the soil fully exposed to wind and water erosion. Accelerated soil erosion occurs, causing landslides and threatening aquatic habitats.

- **Spread of Invasive Plant Species** – Non-native woody plant species frequently invade burned areas. When weeds become established, they can dominate the plant cover over broad landscapes, and become difficult and costly to control.
- **Disease and Insect Infestations** – Unless diseased or insect-infested trees are swiftly removed, infestations and disease can spread to healthy forests and private lands. Timely active management actions are needed to remove diseased or infested trees.
- **Destroyed Endangered Species Habitat** – Catastrophic fires can have devastating consequences for endangered species.

DEFINITONS

Surface fuels *– Surface fuels, or fire behavior fuel models as they are technically referred to, contain the parameters needed by the Rothemel (1972) surface fire spread model to compute surface fire behavior characteristics, such as rate of spread, flame length, fireline intensity, and other fire behavior metrics.*

- **Soil Sterilization** – Topsoil exposed to extreme heat can become water repellant, and soil nutrients may be lost. It can take decades or even centuries for ecosystems to recover from a fire. Some fires burn so hot that they can sterilize the soil.

Many ecosystems are adapted to historical patterns of fire occurrence. These patterns, called "fire regimes," include temporal attributes (e.g., frequency and seasonality), spatial attributes (e.g., size and spatial complexity), and magnitude attributes (e.g., intensity and severity), each of which have ranges of natural variability. Ecosystem stability is threatened when any of the attributes for a given fire regime diverge from its range of natural variability.

5.6 VEGETATION AND LAND COVERAGE

The Balcones Fault line runs approximately underneath Interstate-35. Interstate-35 cuts through the center of Williamson County in a north-south direction. To the east of the fault line, the land consists of black, rich soil. The undeveloped areas consist of crop and grassland. Trees are sparse and can be found congregated around areas of water. To the west of the fault line, top soil is generally only a few inches in depth. Williamson County consists primarily of grassland/prairie and agriculture lands. Table 5-5. lists the present land use in Williamson County. Developed land accounts for only 16.8% of the County.

Table 5-5. Williamson County Present Land Use

Present Use Classification	Area (acres)	% of Total Land Area
Agriculture	195,493	26.9%
Developed, Open Space	71,064	9.8%
Developed, High Intensity	6,444	0.9%
Developed, Medium Intensity	20,776	2.9%
Developed, Low Intensity	23,123	3.2%
Forest Land	110,714	15.2%
Grassland/Prairie	275,243	37.8%
Water/Wetland	24,253	3.3%
Total	**727,110**	**100%**

Note: Acreage covers only mapped parcels and thus excludes many rights-of-way and major water features.

5.6.1 **Surface Fuels**

Surface fuels are important to categorize for they account for the surface fire potential. Canopy fire potential is computed through a separate but linked process. The Texas Wildfire Risk Assessment Summary Report (TxWRAP) for Williamson County accounts for both surface and canopy fire potential in the fire behavior outputs.

Surface fuels account for the surface fire potential. Canopy fire potential is computed through a separate but linked process. The TxWRAP accounts for both surface and canopy fire potential in the fire behavior outputs.

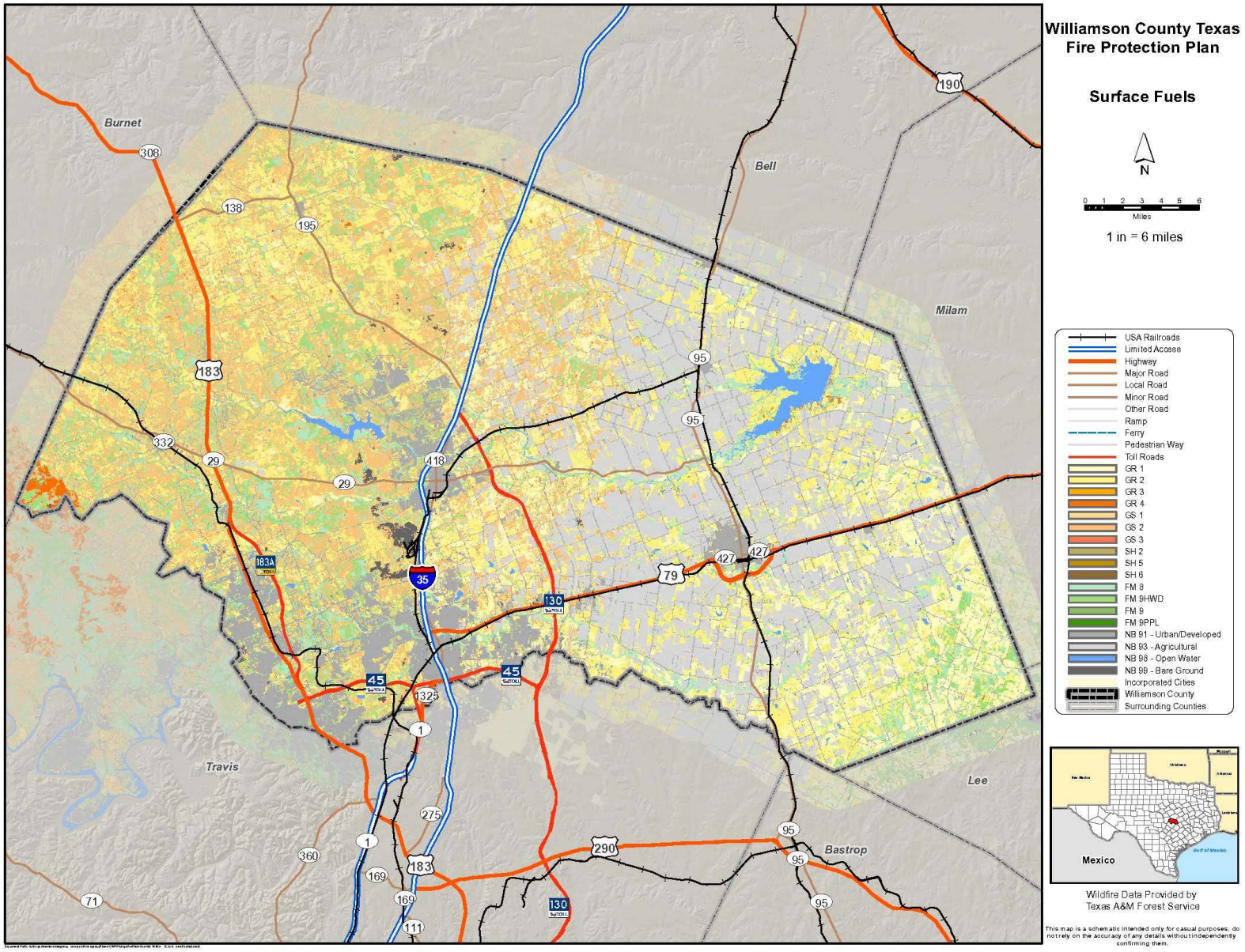
Surface fuels are typically categorized into one of four primary fuel types based on the primary carrier of the surface fire: (1) grass, (2) shrub/brush, (3) timber litter and (4) slash. The following table presents the fuel types as well as the total acres in Williamson County of each fuel type and total percent of county land area.

There are two standard fire behavior fuel model sets published for use. The Fire Behavior Prediction System 1982 Fuel Model Set (Anderson 1982) contains 13 fuel models and the Fire Behavior Prediction System 2005 Fuel Model Set (Scott and Burgan 2005) contains 40 fuel models. The TxWRAP uses fuel models from both sets, as well as two additional custom fuel models devised by the TFS. For a complete list of the fuel models utilized in the TxWRAP refer to the TxWRAP and Figure 5-5. Surface Fuels Map for Williamson County. Table 5-6 and Figure 5-5 show that the county primarily consists of Low Load, Dry Climate Grass at 21.1%, followed by Agricultural at 20.3%, and Moderate Load, Dry Climate Grass-Shrub with 20.1%. Figure 5-5 is a countywide map showing all the surface fuel types.

Table 5-6. Types of Surface Fuels in Williamson County

	Surface Fuels	Description	FBPS Fuel Model Set	Acres	Percent
	GR 1	Short, Sparse Dry Climate Grass (Dynamic)	2005	78,871	10.8%
	GR 2	Low Load, Dry Climate Grass (Dynamic)	2005	153,796	21.1%
	GR 3	Low Load, Very Coarse, Humid Climate Grass (Dynamic)	2005	0	0.0%
	GR 4	Moderate Load, Dry Climate Grass (Dynamic)	2005	2,927	0.4%
	GS 1	Low Load, Dry Climate Grass-Shrub (Dynamic)	2005	0	0.0%
	GS 2	Moderate Load, Dry Climate Grass-Shrub (Dynamic)	2005	146,352	20.1%
	GS 3	Moderate Load, Humid Climate Grass-Shrub (Dynamic)	2005	0	0.0%
	SH 2	Moderate Load Dry Climate Shrub	2005	0	0.0%
	SH 5	High Load, Dry Climate Shrub	2005	134	0.0%
	SH 6	Low Load, Humid Climate Shrub	2005	0	0.0%
	FM 8	Closed timber litter (compact)	1982	46,696	6.4%
	FM 9 HWD	Hardwood litter (fluffy) - Low Load for Texas	Custom	45,717	6.3%
	FM 9	Long-needle (pine litter) or hardwood litter	1982	0	0.0%
	FM 9 PPL	Long-needle (pine litter, plantations) - High Load for Texas	Custom	0	0.0%
	NB 91	Urban/Developed	2005	92,532	12.7%
	NB 93	Agricultural	2005	147,465	20.3%
	NB 98	Open Water	2005	9,551	1.3%
	NB 99	Bare Ground	2005	3,158	0.4%
			Total:	**727,200**	**100.0%**

Figure 5-5. Surface Fuels Map for Williamson County



5.6.2 **Vegetation**

The TxWRAP for Williamson County provides a reliable vegetation dataset with special consideration given to mapping of evergreen forest types (pine, red cedar, juniper, live oak, and pinyon) since evergreens contain oils, resins, and waxes that make the plants burn quickly and hot.

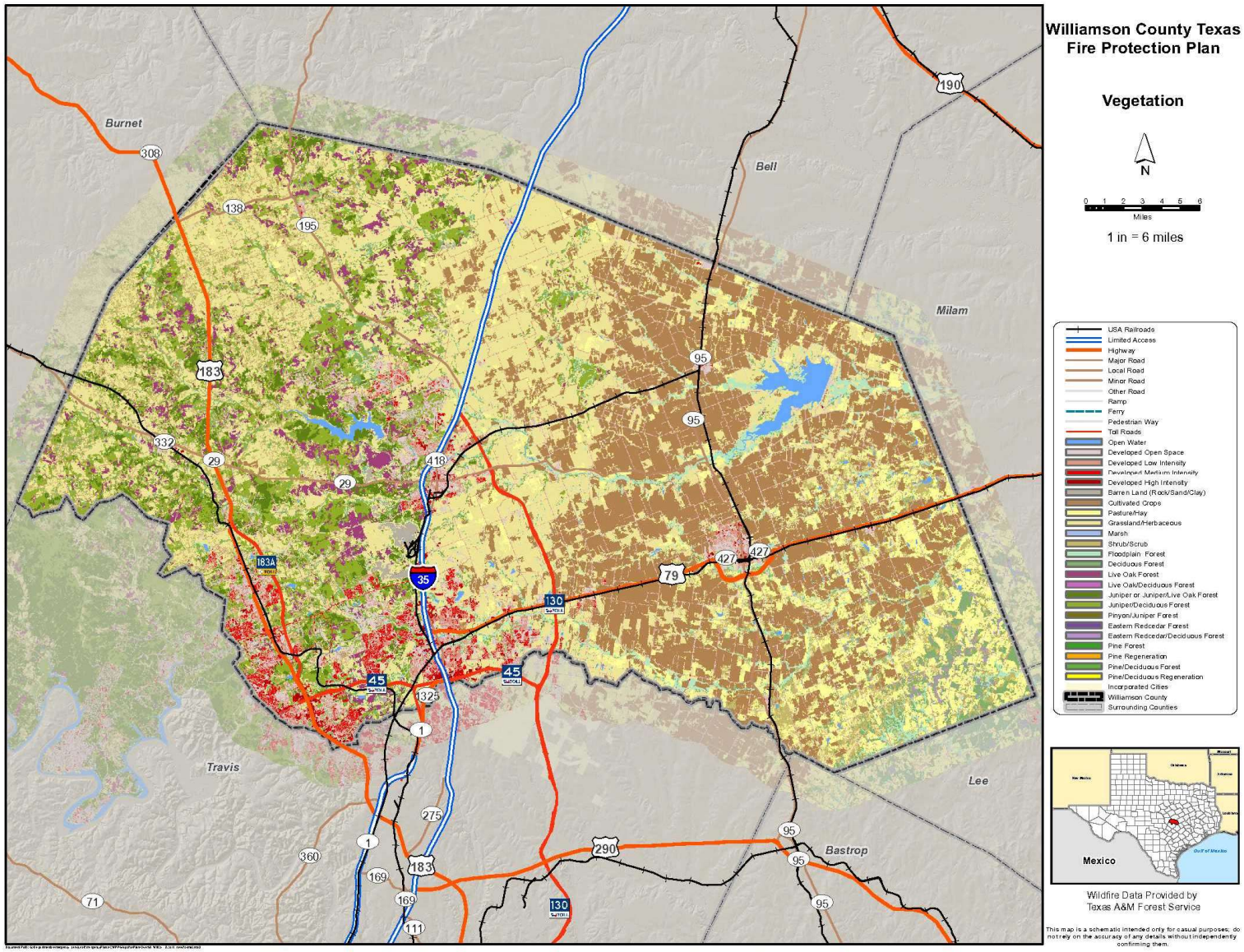
Table 5-7. Williamson County Vegetation

	Class	Description	Acres	Percent
	Open Water	All areas of open water, generally with < 25% cover of vegetation or soil	7,903	1.1%
	Developed Open Space	Impervious surfaces account for < 20% of total cover (i.e., golf courses, parks, etc.)	43,318	6.0%
	Developed Low Intensity	Impervious surfaces account for 20-49% of total cover	35,710	4.9%
	Developed Medium Intensity	Impervious surfaces account for 50-79% of total cover	10,417	1.4%
	Developed High Intensity	Impervious surfaces account for 80-100%of total cover	3,231	0.4%
	Barren Land (Rock/Sand/Clay)	Vegetation generally accounts for <15% of total cover	2,799	0.4%
	Cultivated Crops	Areas used for the production of annual crops, includes land being actively tilled	148,432	20.4%
	Pasture/Hay	Areas of grasses and/or legumes planted for livestock grazing or hay production	43,689	6.0%
	Grassland/Herbaceous	Areas dominated (> 80%) by grammanoid or herbaceous vegetation, can be grazed	227,019	31.2%
	Marsh	Low wet areas dominated (> 80%) by herbaceous vegetation	6	0%
	Shrub/Scrub	Areas dominated by shrubs/trees < 5 meters tall, shrub canopy > than 20% of total vegetation	47,585	6.5%
	Floodplain Forest	> 20% tree cover, the soil is periodically covered or saturated with water	16,124	2.2%
	Deciduous Forest	> 20% tree cover, >75% of tree species shed leaves in response to seasonal change	32,561	4.5%

	Live Oak Forest	> 20% tree cover, live oak species represent >75% of the total tree cover	24,392	3.4%
	Live Oak/Deciduous Forest	> 20% tree cover, neither live oak or deciduous species represent >75% of the total tree cover	1	0%
	Juniper or Juniper/Live Oak Forest	> 20% tree cover, juniper or juniper/live oak species represent > 75% of the total tree cover	22,947	3.2%
	Juniper/Deciduous Forest	> 20% tree cover, neither juniper or deciduous species represent > 75% of the total tree cover	59,388	8.2%
	Eastern Red cedar/Deciduous Forest	> 20% tree cover, neither eastern red cedar or deciduous species represent > 75% of the total tree cover	1,678	0.2%
	Total:		**727,200**	**100.0 %**

Figure 5-6 shows that grassland, cultivated crops, and juniper/deciduous forest make up the largest number of vegetation acreage in the county. Table 5-7 and Figure 5-6 identify the diversity of vegetation in Williamson County.

Figure 5-6. Vegetation Map for Williamson County



5.7 LAND USE PLANNING

5.7.1 Land Use

Per the Texas A&M Forest Service 2011 Texas Wildfires – Common Denominators of Home Destruction report roughly 94 percent of the land in Texas is privately owned, which means the shape of our landscape is largely left up to individual property owners.

Individual land-use practices are as diverse as the landscape itself. The way land is managed, communities and homes are built, and food is produced all have an impact on wildfire activity. As the state continues to see exponential population growth, the potential for fire losses will be affected by how and where homes are built.

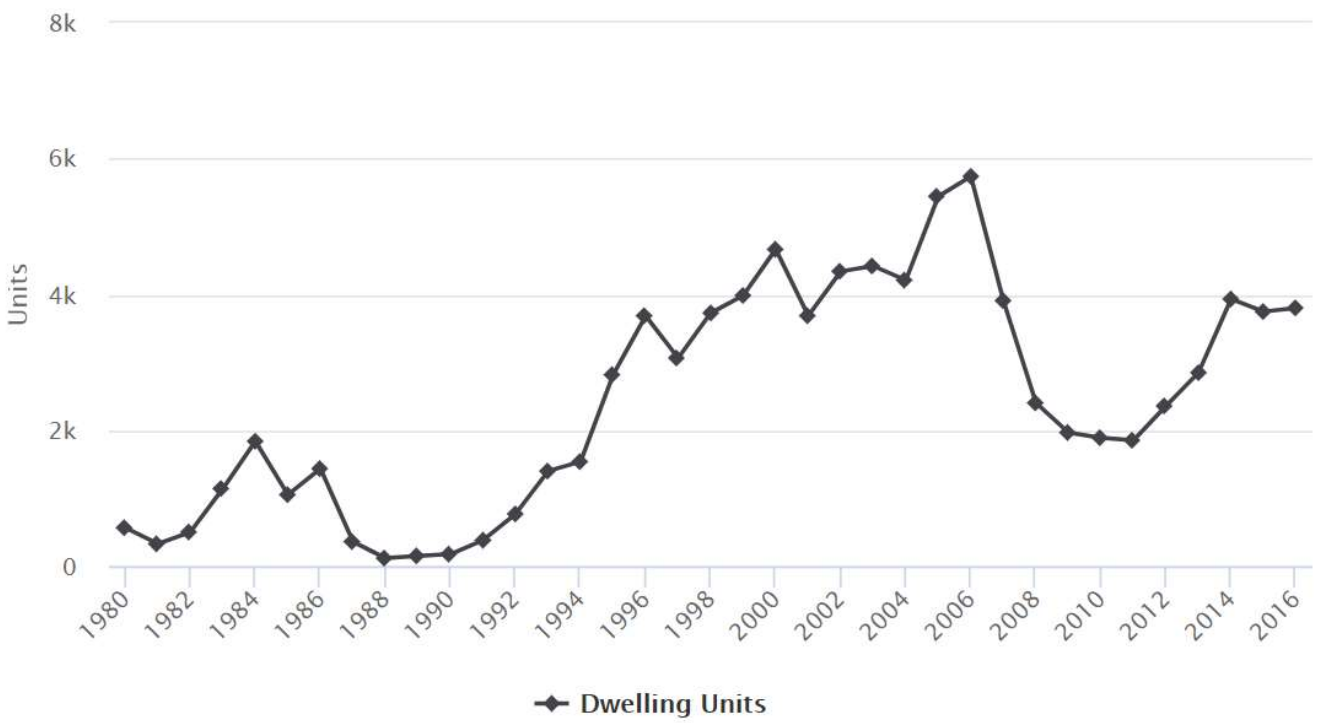
The primary land-use changes listed below impact wildfire occurrence and intensity.

- Increase in woody vegetation
- Changes in grazing practices
- Changes in commercial crop production
- Changes in wildlife management practices
- Fragmentation of land ownership
- Residents living in previously rural areas
- Overgrowth of vegetation around communities

5.7.2 Building Permit Growth

Housing units in Williamson County are mainly single-family detached homes; however, there are approximately 4,575 mobile homes in the county. According to the U.S. Census Bureau, the number of residential building permits reported in Williamson County decreased from 2006 to 2011, dropping from 5,738 in 2006 to 1,851 in 2011. In 2012 to 2014, residential building permits increased. As residential building permits continue to be issued, unincorporated areas of Williamson County will be impacted by an increase in vulnerability. Figure 5-7. shows the reported residential building permits in Williamson County. Structures, aboveground infrastructure, critical facilities, agricultural area (crops and structures), and natural environments are all vulnerable to wildfire hazard.

Figure 5-7. Residential Building Permits in Williamson County from 1980 to 2016



5.7.3 Urban Encroachment

Much of Texas' recent population boom has taken place in unincorporated areas outside of city limits. According to the 2010 U.S. Census, Texas added 4,293,741 residents between April 1, 2000 and April 1, 2010. The state added almost the entire population of Kentucky (4,339,367) to its population in the last decade. The Austin-Round Rock-San Marcos MSA was the eighth fastest growing metropolitan area in the country. Williamson County is one of Texas' 10 fastest growing counties and contains large unincorporated areas next to a major city—Austin. Central Texas towns like Georgetown, Cedar Park, and Round Rock were among the nation's 25 fastest-growing cities in 2016 with 50,000 people or more. The growth has occurred outward rather than upward, commonly referred to as sprawl. This sprawl growth results in increasing impacts on the WUI zone as previously discussed in Chapter 3 of this plan.

5.7.4 General Plans

Long-Range Transportation Plan

The Williamson County Long-Range Transportation Plan focuses on what road and transit improvements should be built or improved over the next 25 years to help address expected growth in the County. This plan guides future capital improvements. The County has worked in close collaboration with its member cities to develop the plan, which analyzes current population and employment data in order to make projections about how and where the County will grow in the future. It also contemplates land-use patterns and the role of transit moving forward.

Subdivision Ordinance

On August 20, 2013, the Williamson County Commissioner's Court approved a revision to Williamson County's Subdivision Regulations, including a new fee structure. These revised regulations were made effective immediately for all new applications received on or after August 20, 2013.

Generally, Texas counties, including Williamson, have no zoning authority and have limited authority to regulate land use, primarily through approval of plats. Many cities use zoning ordinances to plan growth by regulating the types of activities or development that may take place in a given area. City zoning districts include uniform regulations on permissible land uses, building height and lot-size requirements, or other development restrictions.

Approval of plats is the primary tool by which a Texas county regulates subdivision development in unincorporated areas. A plat is a legal document that includes a map of the subdivided property and public improvements, such as streets or drainage infrastructure. A plat must be approved by the county commissioner's court and filed with the county clerk as a permanent real property record. The plat may be used for land title research, land sales, or property tax purposes. Local Government Code, sec. 232.003 specifies the steps a commissioner's court may order before approving a plat, such as requiring rights-of-way on subdivision roads, adopting reasonable specifications on street and road construction and drainage infrastructure, and requiring purchase contracts to specify the availability of water.

5.8 POPULATION

5.8.1 Growth

As of January 1, 2015, the Texas Association of Counties estimates that Williamson County has a population of 508,514 (Texas Association of Counties 2017). Table 5-8. shows planning area population data from 1990 through 2015. The Williamson County population has had a dramatic increase of 79% from 1990 to 2000 and more than doubled in population from 2000 to 2015. Williamson County is one of the fastest growing county is Texas and the nation since 1990.

Table 5-8. Recent Population Data

	Population			
	1990	2000	2010	2015
City of Bartlett (pt)[a]	N/A	857	933	2,076
City of Cedar Park (pt)	5,161	25,508	48,448	62,319
City of Coupland	N/A	N/A	N/A	300
City of Florence	867	1,054	1,136	1,231
City of Georgetown	16,233	28,339	47,400	63,716
City of Granger	1,121	1,299	1,419	1,517
City of Hutto	630	1,250	14,698	22,722
City of Jarrell[b]	N/A	N/A	984	1,171
City of Leander (pt)	N/A	7,596	25,444	36,407
City of Liberty Hill	N/A	1,409	967	1,389
City of Pflugerville (pt)	N/A	0	300	202
City of Round Rock (pt)	N/A	60,060	98,525	114,367
City of Taylor	11,524	13,575	15,191	16,702
City of Thorndale (pt)	N/A	0	2	2
City of Thrall	554	710	839	920
City of Weir	220	591	450	497
Balance of County[c]	N/A	107,719	165,943	182,976
Total	**139,551**	**249,967**	**422,679**	**508,514**

Note:
a. pt - part of the city population within Williamson County.
b. City incorporated in 2001.
c. Balance of County population estimate includes municipality of Austin and unincorporated county areas.
N/A Not applicable
Source: Texas Association of Counties 2017

Table 5-8 shows 5-year population changes in Williamson County and the State of Texas from 1990 to 2015. Between 1990 and 2015, the State of Texas' population grew by 56% (about 2.2% per year) while Williamson County's population increased by 239% (9.2% per year).

5.8.2 Age Distribution

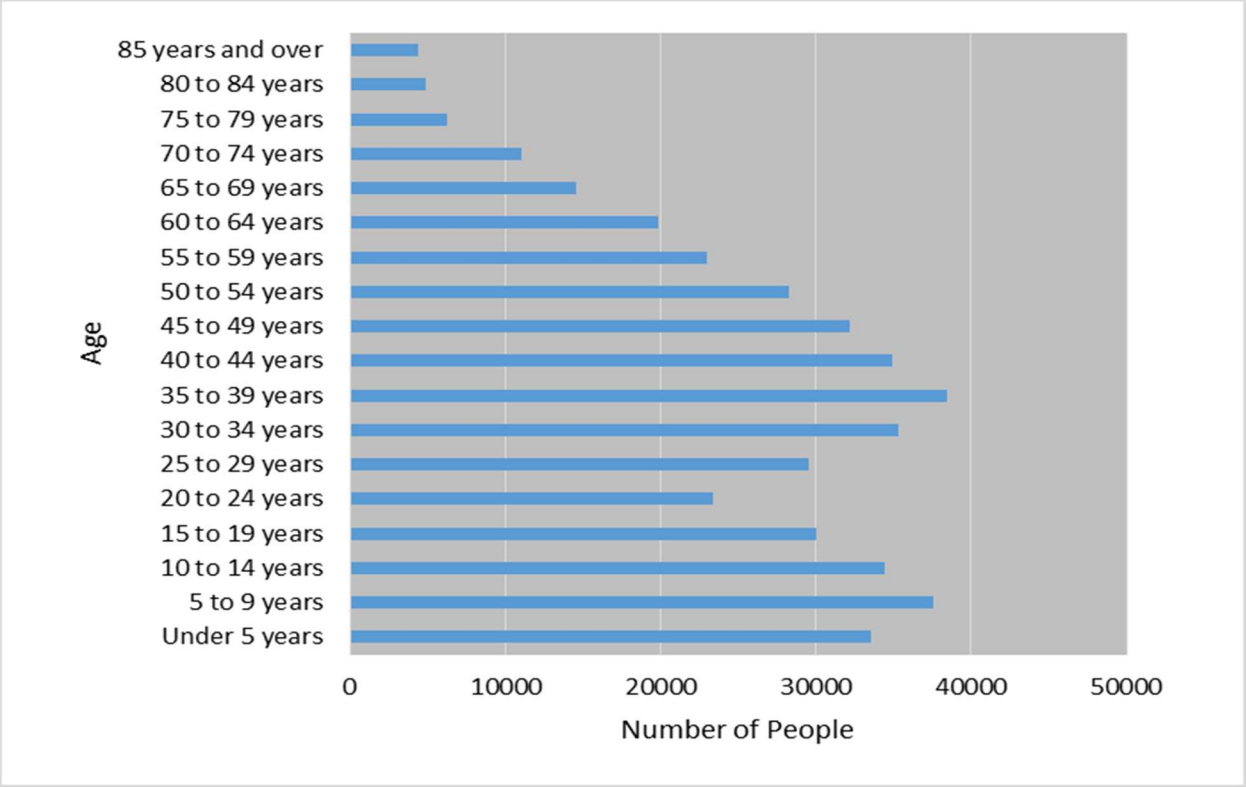
As a group, the elderly are more apt to lack the physical and economic resources necessary for response to hazard events and are more likely to suffer health-related consequences making recovery slower. They are more likely to be vision, hearing, or mobility impaired, and more likely to experience mental impairment or dementia. Additionally, the elderly are more likely to live in assisted-living facilities where emergency preparedness occurs at the discretion of facility operators. These facilities are typically identified as "critical facilities" by emergency managers because they require extra notice to implement evacuation. Elderly residents living in their own homes may have more difficulty evacuating their homes and could be stranded in dangerous situations. This population group is more likely to need special medical attention, which may not be readily available during natural disasters due to isolation caused by the event. Specific planning attention for the elderly is an important consideration given the current aging of the national population.

Children under 14 are particularly vulnerable to disaster events because of their young age and dependence on others for basic necessities. Very young children may additionally be vulnerable to injury or sickness; this

vulnerability can be worsened during a natural disaster because they may not understand the measures that need to be taken to protect themselves from hazards.

The overall age distribution for the planning area is illustrated in Figure 5-8. Based on U.S. Census data estimates, 11.3% of the planning area's population is 65 or older. U.S. Census data does not provide information regarding disabilities in the planning area's over-65 population. U.S. Census estimates for 2015 indicate that 6.6% of Williamson County families have children under 18 and are below the poverty line.

Figure 5-8. Williamson County Age Distribution



5.8.3 **Disabled Populations**

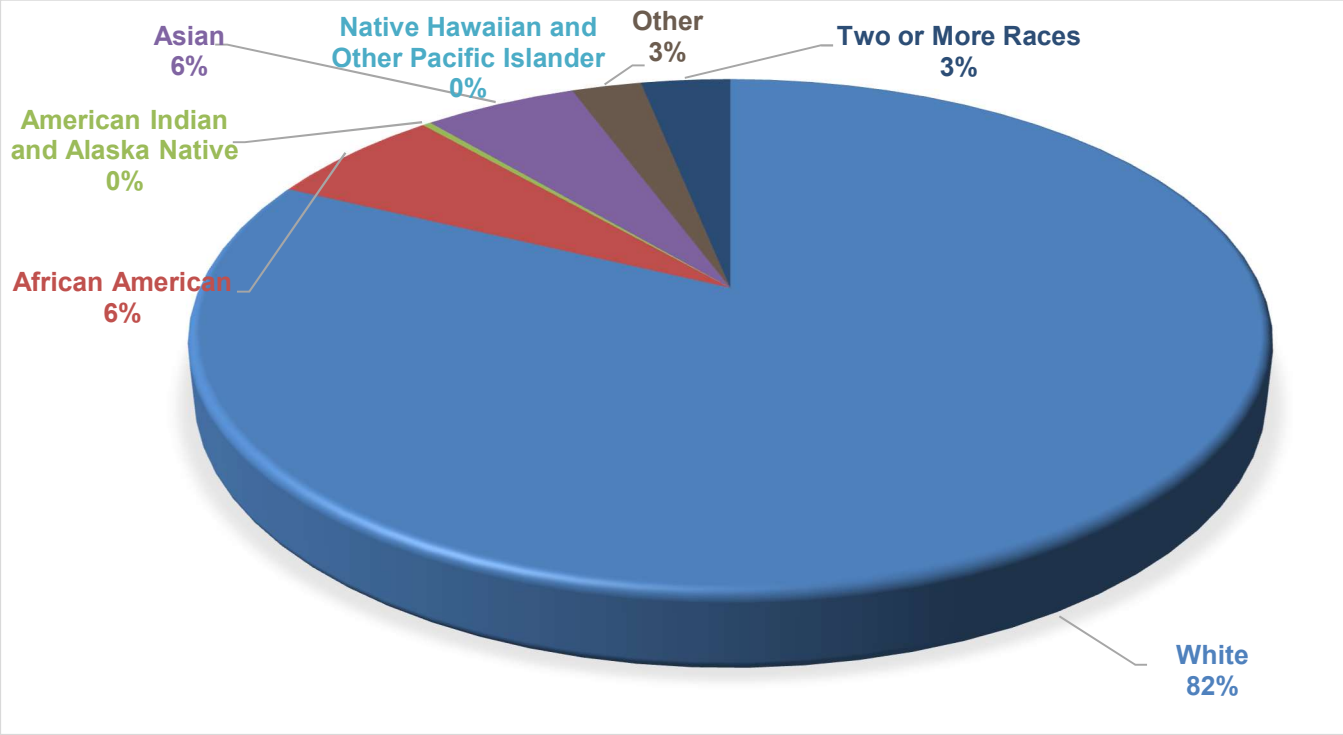
The 2010 U.S. Census estimated that 57 million non-institutionalized Americans with disabilities live in the U.S. This equates to about one-in-five persons. People with disabilities are more likely to have difficulty responding to a hazard event than the general population. Local government is the first level of response to assist these individuals, and coordination of efforts to meet their access and functional needs is paramount to life safety efforts. It is important for emergency managers to distinguish between functional and medical needs in order to plan for incidents that require evacuation and sheltering. Knowing the percentage of population with a disability will allow emergency management personnel and first responders to have personnel available who can provide services needed by those with access and functional needs. According to the 2015 U.S. Census, 9.2% of the population in the Williamson County lives with some form of disability.

5.8.4 **Ethnic Populations**

Research shows that minorities are less likely to be involved in pre-disaster planning and experience higher mortality rates during a disaster event. Post-disaster recovery can be less effective for ethnic populations and is

often characterized by cultural insensitivity. Since higher proportions of ethnic minorities live below the poverty line than the majority white population, poverty can compound vulnerability. According to the 2015 U.S. Census estimates, the ethnic composition of Williamson County is predominantly white, at about 82.1%. The largest minority ethnic population is Hispanic or Latino at 23.4%. Figure 5-9 shows the population distribution by race and ethnicity in Williamson County. The values shown on Figure 5-9 exceed 100% because according to the U.S. Census, Hispanic or Latino is listed as an ethnicity, not a race. Therefore, the Hispanic or Latino designation encompasses several races.

Figure 5-9. Williamson County Ethnic Distribution



Williamson County has an 11.3% foreign-born population. Other than English, the most commonly spoken language in Williamson County is Spanish. The U.S. Census estimates 6.8% of the residents speak English "less than very well."

5.9 FOREST MANAGEMENT

The State of Texas contains 26 million acres of forestland, primarily in the eastern third of the State. Approximately 22% of the land within Williamson County is considered to be forested. This forestland provides the State with its third most valuable agricultural commodity, creating more than 91,000 jobs with more than $2.3 billion in wages and salaries. In addition, forests in Texas provide non-timber benefits such as clean water, habitats for diverse wildlife, eco-tourism, historical preservation, and carbon sequestration abilities. Based on information from the TFS, research shows that actively managed timberland provides more resources and benefits compared to unmanaged timberland. In 2010, eastern Texas was estimated to contain nearly 12 million acres of timberland, most of which is privately owned.

The benefits of these trees are endless. From clean air and water to a source of revenue, we should take pride in caring for this resource. The TFS is here to help you maximize your timberland and its benefits.

Forest management techniques can include: prescribed burning, planting, pre-commercial thinning, mid and late rotation thinning, fertilization, pruning, woody competition control, even-aged regeneration harvests, uneven-aged regeneration harvests, and/or restoration of a historic ecosystem. Each timber stand can be different and have different management needs.

The TFS outlines several steps to better timber management. These steps include:

- Educate yourself. Talk to neighbors, fellow landowners, professionals and explore resources on the Internet.
- Attend educational workshops and programs.
- Have your trees and timber assessed. Assessments can be made on timber stands to determine overall age, health, past management, current and future value, and current and future products and/or benefits the stands provide.
- Create a management plan. A good management plan takes into account land objectives and sets a timeline to achieve those objectives.
- Continually monitor the land and the effects of the management practices.
- Pass the land and passion for timber management along to future generations.

5.10 INFRASTRUCTURE

Critical facilities of wood frame construction are especially vulnerable during wildfire events. In the event of wildfire, there would likely be little damage to most infrastructure. Most roads and railroads would be without damage except in the worst scenarios. Power lines are the most at risk from wildfire because most poles are made of wood and susceptible to burning. Fires can create conditions that block or prevent access and can isolate residents and emergency service providers. Wildfire typically does not have a major direct impact on bridges, but it can create conditions in which bridges are obstructed. Many bridges in areas of high to moderate fire risk are important because they provide the only ingress and egress to large areas and in some cases to isolated neighborhoods.

5.10.1 Critical Facilities

Property damage from wildfires can be severe and can significantly alter entire communities. Figure 5-10 and Table 5-9 display the general locations and the number of critical facilities (as provided by Williamson County GIS Department) in the various wildfire hazard zones within Williamson County. Efforts should be taken in the future to harden and protect critical infrastructure from wildfire as well as to ensure that the siting of future critical infrastructure be outside of high wildfire risk areas.

Figure 5-10. Critical Infrastructure within Williamson County

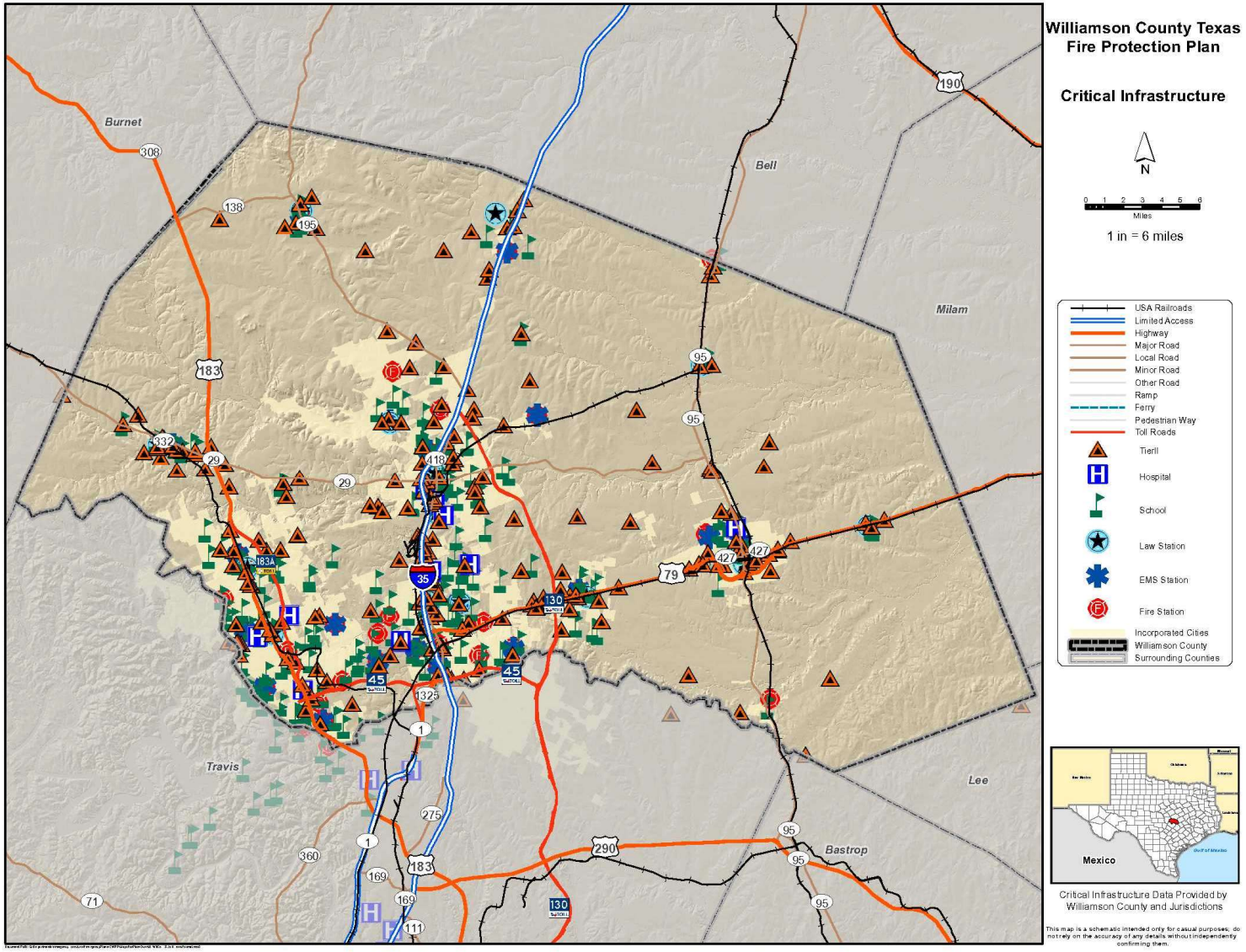


Table 5-9. Critical Facilities and Infrastructure by Wildfire Class in Williamson County

	Very Low	Low	Moderate	High	Very High
Medical and Health	0	0	0	0	0
Government Functions	1	0	0	0	0
Protective Functions	1	0	1	0	0
Schools	11	13	3	0	0
Hazardous Materials	4	13	1	0	0
Bridges	96	112	24	0	0
Wastewater	3	2	0	0	0
Power	0	0	0	0	0
Communications	0	3	0	0	0
Transportation	0	0	0	0	0
Dams	27	21	2	0	0
Source: Williamson County GIS					

5.11 COUNTY LAND USE AND DEVELOPMENT TRENDS AND ISSUES

5.11.1 Trends

The Austin American Statesman has reported that Austin added more than 20,000 people each year from 2011 to 2015, but the new data shows that it added only 17,738 in the most recent year — a gain of 1.9 percent, its smallest increase in six years. At the same time, suburban Central Texas towns like Georgetown, Cedar Park, Round Rock and Pflugerville were among the nation's 25 fastest-growing cities with 50,000 people or more. Demographers report that the Williamson County area is experiencing a level of urban sprawl that may be unprecedented for Central Texas concluding that one major driver for Austin's sprawl is the rising cost of housing in the city as compared with the suburbs as well as a post-recession return of big, national suburban home building, Austin demographer Ryan Robinson reported that Central Texas grows because of the vibrancy — economically, culturally, socially — that is still mainly emanating from the city of Austin. In many cases, the rapid growth in the County is expanding developed areas to the edge or into areas historically considered to be wildland increasing the potential conflicts of development and wildland fires.

5.11.2 Issues

The major issues for county land use and development trends in regards to wildfire are listed in this section.

Public education and outreach to people living in or near the fire hazard zones should include information about and assistance with mitigation activities such as defensible space, and advance identification of evacuation routes and safe zones.

- Wildfires could cause landslides as a secondary natural hazard.
- Climate change could affect the wildfire hazard.

- Future growth into interface areas should continue to be managed.
- Area fire districts need to continue to train on WUI events.
- Vegetation management activities should be enhanced.
- Regional consistency of higher building code standards should be adopted such as residential sprinkler requirements and prohibitive combustible roof standards.
- Fire department water supply in high risk wildfire areas should be enhanced.
- Expand certifications and qualifications for fire department personnel. Ensure that all firefighters are trained in basic wildfire behavior, basic fire weather, and that all company officers and chief level officers are trained in the wildland command and strike team leader level.

6. FIRE PROTECTION INFRASTRUCTURE

6.1 FIRE PROTECTION DISTRICTS

Williamson County is served by sixteen different fire protection districts. These districts are listed in Table 6-1 below.

Table 6-1. Williamson County Fire Departments and Districts

Department / District	
Austin Fire Department	Jollyville Fire Department / Williamson County ESD #1
Bartlett Volunteer Fire Department	Leander Fire Department
Cedar Park Fire Department / Williamson County ESD #11 & 12	Liberty Hill Fire Department / Williamson County ESD #4
Coupland Volunteer Fire Department / Williamson County ESD #10	Round Rock Fire Department / Williamson County ESD #9
Florence Volunteer Fire Department / Williamson County ESD #	Sam Bass Fire Department / Williamson County ESD #2
Georgetown Fire Department / Williamson County ESD #8	Taylor Fire Department
Granger Volunteer Fire Department	Taylor Volunteer Fire Department
Hutto Fire Rescue / Williamson County ESD #3	Thrall Volunteer Fire Department
Jarrell Fire Department Jarrell Fire Department / Williamson County ESD 5	

Each fire protection district within the county has varying capabilities. The capabilities of each department will be profiled in individual annexes (Annexes 1-19) found in this plan. This section will provide a general overview of each department.

Austin Fire Department

A small portion of the City of Austin lies within Williamson County. The City of Austin has completed a Community Wildfire Protection Plan of their own and can accessed via the Department site.

Bartlett Volunteer Fire Department

The City of Bartlett is divided equally within both Bell and Williamson Counties. The Bartlett Volunteer Fire Department provides fire service for the northeastern portions of Williamson County, which primarily consist of rural farm and ranch land. Additionally, the City of Bartlett subscribes to the Bell County Emergency Management Plan.

Cedar Park Fire Department

The Cedar Park Fire Department was established in 1972 as a volunteer department. In 2001, the fire department essentially became a full-time paid department under the City organization. The fire department responds to calls in both the City and the extraterritorial jurisdiction serving a population of approximately 80,000 people. The Center for Public Safety Excellence conferred accredited status to Cedar Park Fire Department in 2014.

Staffing for the Department includes the following:

- Fire Administration
- Emergency Operations
- Fire Protection Division
- Training

Dispatcher

The Cedar Park Fire Department was established in 1972 as a volunteer department. In 2001, the fire department essentially became a full-time paid department under the City organization. The fire department responds to calls in both the City and the extraterritorial jurisdiction serving a population of approximately 80,000 people. The Center for Public Safety Excellence conferred accredited status to Cedar Park Fire Department in 2014.

Staffing for the Department includes the following:

- Fire Administration
- Emergency Operations
- Fire Protection Division
- Training
- Dispatcher

Coupland Volunteer Fire Department, Williamson County ESD #10

The Coupland Volunteer Fire Department provides protection for a population of approximately 2,000 people within 60 square miles of eastern Williamson County, TX. The Coupland VFD primary coverage area is within WilCo ESD#10.

Established in 1979, Coupland VFD is entirely staffed by volunteers. We respond to 350 – 400 calls per year, with medical calls, motor vehicle accidents and outdoor fires being the most frequent incident types.

We Department operates an auto aid agreement with our partners in Thrall, Weir, and Taylor VFDs, allowing all four departments to provide a higher level of service to our communities than one department could alone.

Our response area is largely rural, with small communities and farm land making up much of the area. However, in common with the rest of Williamson County, we are starting to see the establishment of new sub-divisions and an increase in the number of homes in the district.

The department responds out of a single station with a fleet that includes two structural engines, one Type 3 brush truck and one type 6 brush truck.

Florence Volunteer Fire Department

Florence Volunteer Fire Department/ Williamson County ESD#7 District covers 134 square miles of Northwest Williamson County. The area is mostly rural open land with small acreage tracts around the City of Florence. The fire department was established in 1928 as an all-volunteer department. In 2005 the Emergency Service District was established. The department is now a combination department but still relies heavily on the volunteers.

There are two major highways that run through the District US 183 and TX 195. The Wildland Urban Interface area is a reality as more traditional Agriculture property are being sold and subdivided into small tracts. The lack of an adequate water supply in most areas presents a challenge in fire suppression.

The department currently has a station in the City of Florence with a second station under construction in Andice.

The City of Florence and Florence Fire District maintain a Community Wildfire Protection Plan and can be accessed through the fire department website.

Georgetown Fire Department

The Georgetown Fire Department operates 5 stations, combination fire and EMS, staffed with paid personnel. The department covers a diverse area consisting of commercial and residential neighborhoods along with large tracts of undeveloped land. The department operates fire apparatus provided by the Texas Intrastate Fire Mutual Aid System (TFMAS) and deploys upon request. The department is funded by the City of Georgetown and Emergency Services District #8.

Granger Volunteer Fire Department

The Granger Volunteer Fire Department's mission is to save lives and protect property. The department is served by one station and is made up of 15 volunteer firefighters. The Granger Volunteer Fire Department provides firefighting and emergency medical services/first responder services. The firefighters are under the command of one fire chief and two assistant chiefs.

Hutto Fire Rescue/Williamson County Emergency Services District #3

Williamson County Emergency Services District #3 (dba Hutto Fire Rescue) provides fire and rescue services from one fire station to 63 square miles of eastern Williamson County, Texas. We protect a population of approximately 45,000 residents. This includes low-income and high-income residential neighborhoods. Some of these homes are located in the wildland-urban interface areas by residents wishing to improve their quality of life. All of these homes range from one- and two-family single-story dwellings, to one- and two-family or multiple-family dwellings that are 3-stories or greater. Currently Hutto Fire Rescue is responsible for providing a variety of emergency services which includes responding to structure fires, wildland fires, hazardous materials incidents, medical emergencies, motor vehicle collisions, swift water rescue situations, and technical rescue situations.

This emergency service protection is rendered through the efforts of both paid and volunteer firefighters, 24 hours a day. Hutto Fire Rescue currently employs 24 firefighters to staff two engine for three shifts providing eight firefighters on duty each day.

Jarrell Fire Department / Williamson County ESD 5

Williamson County ESD 5/Jarrell Fire Department provides protection for 75 square miles of north Williamson County, Texas. Jarrell Fire Department has grown from a full volunteer department established in 1953 to a combination department that is primarily staffed by career personnel.

Jarrell FD protects 13 miles of the IH-35 corridor and a rapidly growing community. Our response area includes sub-divisions with as many as 1500 homes, the City of Jarrell, along with wild land and agricultural properties with increasing areas of wild land/urban interface.

The department responds out of a single station with a fleet that includes one structural engine, one tender, one squad and one Type 6 brush apparatus.

Jollyville Fire Department

The Jollyville Fire Department covers an area of the unincorporated urban area of Williamson County surrounded by the City of Austin. The department consist of one station staffed by both paid and volunteer staff. The fire district consists primarily of developed neighborhood communities and commercial real estate with large tracts of undeveloped land on the eastern side of the district. The department is funded by Emergency Services District #1.

Leander Fire Department

The Leander Fire Department began as an all-volunteer department in 1965. In 1999, the city hired its first paid staff and since that time, the department has grown to include 4 fire stations, 56 full-time firefighters and 25 volunteer firefighters. The Fire Department responds to calls in both the City and the ETJ serving a population of approximately 60,000. Leander Fire Department is organized into four different divisions to allow for focus in certain areas to meet the mission of the department. The divisions are:

- Fire Administration
- Emergency Operations
- Preparedness and Wellness
- Prevention and Life Safety

The City of Leander and Leander Fire Department maintains a Community Wildfire Protection Plan, which can be accessed on the fire department website.

Liberty Hill Fire Department / Williamson County ESD No. 4

The Liberty Hill Fire Department is in the western area of Williamson County, primarily comprised of ranches, smaller 5-10 acres tracts of land, the City of Liberty Hill, and numerous new subdivisions. Currently, the Liberty Hill Fire Department is housed in one station with both paid and volunteer staff but is in the process of constructing a second station. The department is funded by Emergency Services District #4.

The City of Liberty Hill and Liberty Hill Fire Department maintains a Community Wildfire Protection Plan, which can be access through the fire department website.

Round Rock Fire Department

The Round Rock Fire Department operates 9 station staffed with paid personnel. The department developed a robust wildland firefighting program following the Texas Wildfire of 2011. The City of Round Rock is in the process of developing a Community Wildfire Protection Plan. The department is funded by the City of Round Rock and Emergency Services District #10.

Sam Bass Fire Department

The Jollyville Fire Department covers an area of the unincorporated urban area of Williamson County surrounded by the City of Austin. The department consist of one station staffed by both paid and volunteer staff.

The Sam Bass Fire Department was created in 1980 and covers the unincorporated area located between the Cities of Austin, Cedar Park, Leander, and Round Rock. The department is comprised of both paid and volunteer staff and operates two station with a third under construction. The fire district consists primarily of developed neighborhood communities mixed with commercial and undeveloped land. The department provides fire and medical response services to Emergency Services District #2 and a portion of #9.

Taylor Fire Department

The Taylor Fire Department operates 2 stations staffed with paid personnel and covers the incorporated are of the City of Taylor. The fire district primarily consists of residential and commercials real estate with some areas of undeveloped land. The department is fully funded by the City of Taylor.

Taylor Volunteer Fire Department

Williamson County Taylor Volunteer Fire Department (VFD) provides protection for 79 square miles of east Williamson County, Texas. Taylor VFD has grown from a 6-member volunteer department to 18 strong. The Department is completely volunteer and rely on funding through donations and County Emergency Service Organizations payments for the operations budget.

Taylor VFD protects the 79 and 95 corridors and a rapidly growing community. The response area includes sub-divisions and rural farm land along with wild land and agricultural properties with increasing areas of wild land/urban interface. The District has only 6 hydrants in 79 square miles. The District also has several miles of train tracks along with a large water treatment facility on Granger Lake

The department responds out of a single station with a fleet that includes one structural engine, two tenders, three brush trucks, one rescue apparatus and a command unit.

Thrall Volunteer Fire Department

The Thrall Volunteer Fire Department consist of one station in the City of Thrall and is compromised solely of volunteers. The fire district was recently annexed into Emergency Services District #10 by voters in 2017. The department operates with auto and mutual aid agreements with Coupland, Taylor Volunteer, and Weir Fire Departments.

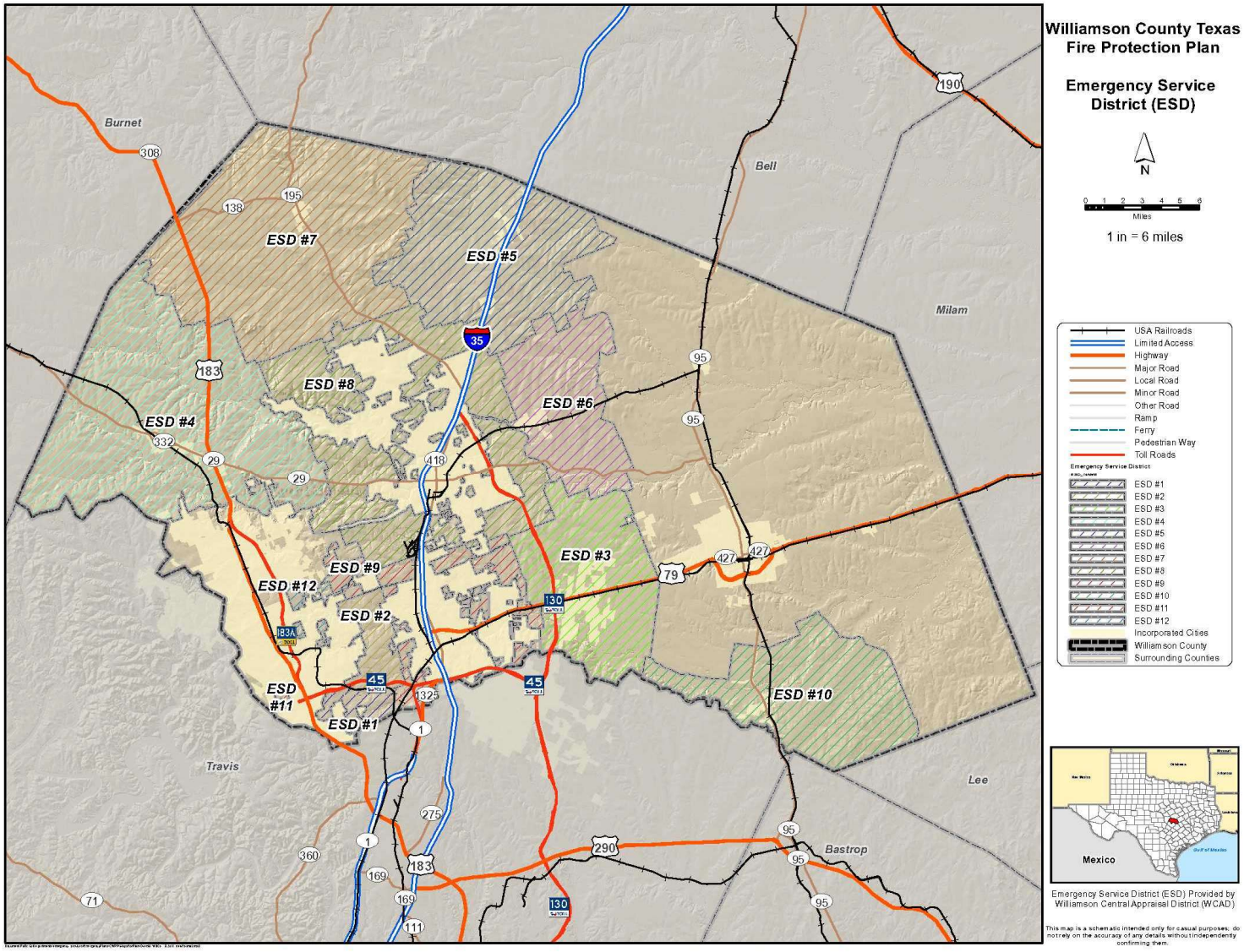
Weir Volunteer Fire Department

The Weir Volunteer Fire Department consist of one station in the City of Weir, is comprised solely of volunteers and is funded through Emergency Services District #6. The department routinely operates with auto and mutual aid agreements with Coupland, Taylor Volunteers, and Thrall Fire Departments.

The Fire District covers the City of Weir and communities of Walburg and Jonah. Most of the area is comprised of large tracts of land, for farming and ranching, with increasing numbers of residential subdivisions.

Figure 6-1below identifies the Emergency Service Districts within Williamson County.

Figure 6-1. Williamson County Emergency Service Districts



7. COMMUNITY PROTECTION ASSESSMENT

7.1 INTRODUCTION

Texas A&M FS, with the understanding that property and homeowners are not powerless in the defense against wildfires. They state that by taking a proactive approach to wildfire prevention, property owners can significantly increase their safety and their improvements likelihood of survival during a catastrophic wildfire event. Texas Wildfire Risk Assessment Portal, or TxWRAP, is the primary mechanism for the Texas Forest Service to deploy risk information and create awareness about wildfire issues across the state. TxWRAP is comprised of a suite of web tools tailored to support specific workflow and information requirements for the public, local community groups, government officials, professional hazard mitigation planners, and wildland fire managers. Collectively these tools provide the baseline information needed to support mitigation and prevention efforts across the state.

TxWRAP allows users to identify wildfire threats for a particular area based on landscape characteristics, historical fire occurrence, weather conditions, terrain and potential fire behavior. It also routes users to resources that can help them implement wildfire prevention practices. TxWRAP characteristics profiles in this plan include: flame length, wildfire threat, vegetation, surface fuels and the wildland urban interface.

7.2 CHARACTERISTIC FLAME LENGTH

Flame length is defined as the distance between the flame tip and the midpoint of the flame depth at the base of the flame, which is generally the ground surface. It is an indicator of fire intensity and is often used to estimate how much heat the fire is generating. Flame length is typically measured in feet. Flame length is the measure of fire intensity used to generate the response index outputs for the TxWRAP.

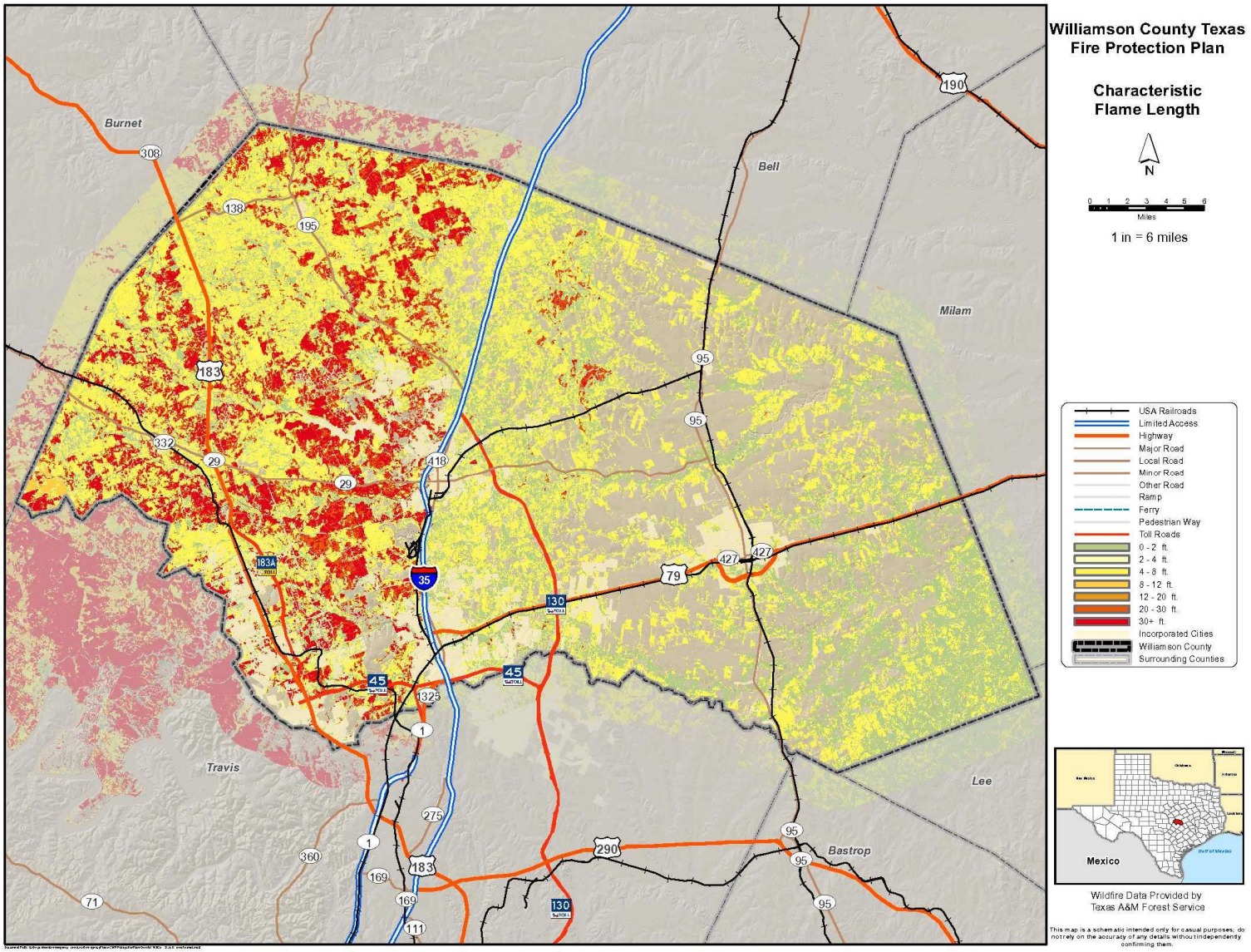
Flame length is a fire behavior output, which is influenced by three environmental factors - fuels, weather, and topography. Weather is by far the most dynamic variable as it changes frequently. To account for this variability, four percentile weather categories were created from historical weather observations to represent low, moderate, high, and extreme weather days for each weather influence zone in Texas. A weather influence zone is an area where, for analysis purposes, the weather on any given day is considered uniform. There are 22 weather influence zones in Texas. The data shows that more than 55.3% of the County–predominantly the eastern portion, east of Interstate-35–has flame length considered to be Low or Non-Burnable.

DEFINITION
*Characteristic **Flame Length** is the typical or representative flame length of a potential fire based on a weighted average of four percentile weather categories. Flame length is defined as the distance between the flame tip and the midpoint of the flame depth at the base of the flame, which is generally the ground surface.*

Table 7-1. Characteristic Flame Length (in acres) in Williamson County

	Class	Acres	Percent
	Non-Burnable	252,706	34.8%
	1 (Low)	137,748	18.9%
	2	11,312	1.6%
	3 (Moderate)	236,230	32.5%
	4	2,754	0.4%
	5 (High)	77	0%
	6	36,696	5.0%
	7 (Very High)	49,676	6.8%
Total:		**727,200**	**100.0 %**

Figure 7-1. Characteristic Flame Length (in acres) in Williamson County



7.3 RISK OF WILDFIRE THREAT

Per TFS, the "Wildfire Threat" is the likelihood of a wildfire occurring or burning into an area. Threat is derived by combining a number of landscape characteristics including surface fuels and canopy fuels, resultant fire behavior, historical fire occurrence, percentile weather derived from historical weather observations, and terrain conditions. These inputs are combined using analysis techniques based on established fire science.

> ***DEFINITONS***
>
> ***Surface fuels****-Surface fuels, or fire behavior fuel models as they are technically referred to, contain the parameters needed by the Rothemel (1972) surface fire spread model to compute surface fire behavior characteristics, such as rate of spread, flame length, fireline intensity, and other fire behavior metrics.*

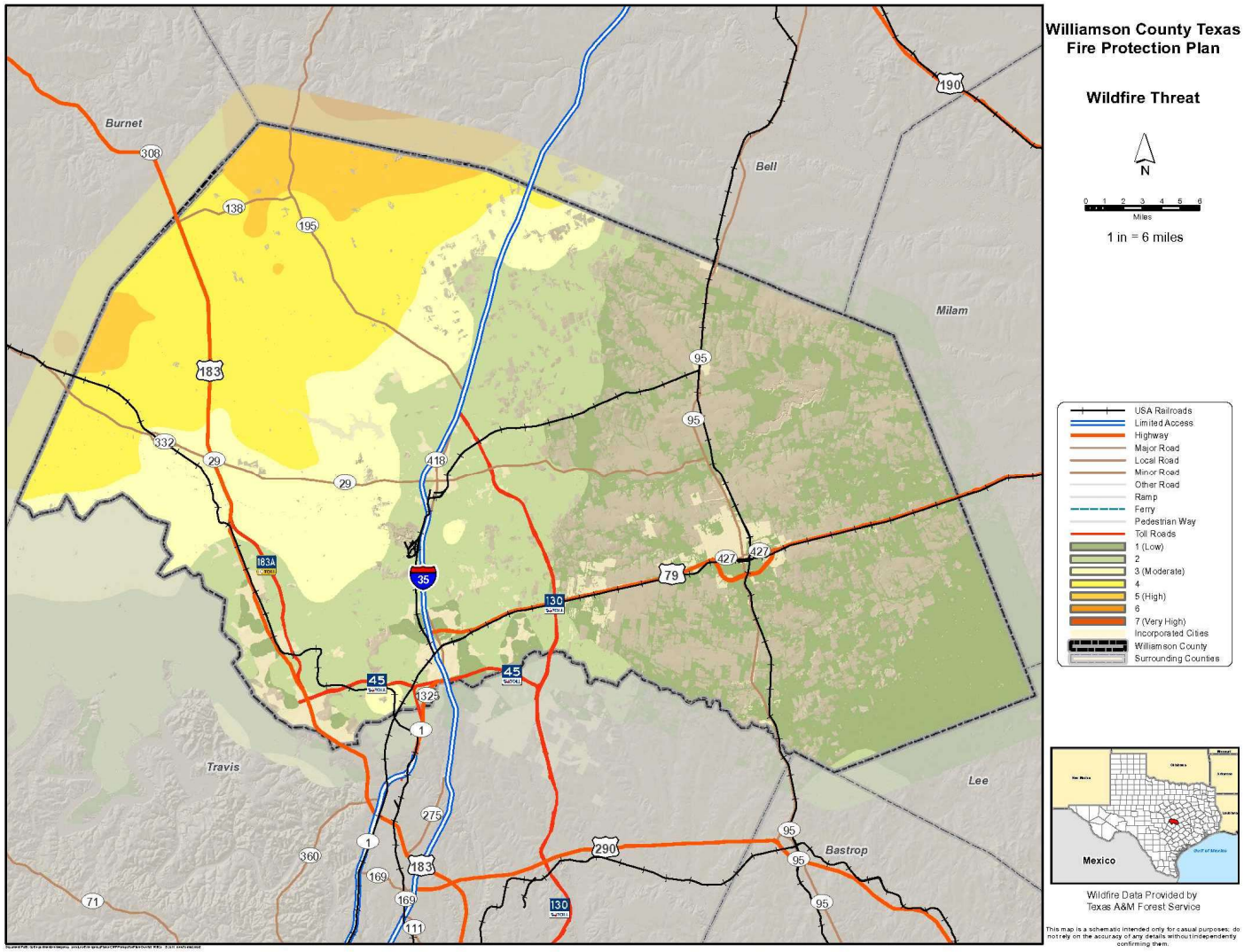
The measure of wildfire threat used in the Texas Wildfire Risk Assessment Portal is called Wildland Fire Susceptibility Index, or WFSI. WFSI combines the probability of an acre igniting (Wildfire Ignition Density) and the expected final fire size based on rate of spread in four weather percentile categories. WFSI is defined as the likelihood of an acre burning. Since all areas in Texas have WFSI calculated consistently, it allows for comparison and ordination of areas across the entire State. For example, a high threat area in eastern Texas is equivalent to a high threat area in western Texas.

To aid in the use of Wildfire Threat for planning activities, the output values are categorized into seven classes. These are given general descriptions from Low to Very High threat. The following table identifies the seven wildfire threat classes as well as the total number of Williamson County acres that fall within each class and the total percent of Williamson County within each threat class.

Table 7-2. Wildfire Threat by Burn Classification in Williamson County

	Class	Acres	Percent
	Non-Burnable	184,491	25.4%
	1 (Low)	159,424	21.9%
	2	130,477	17.9%
	3 (Moderate)	94,422	13.0%
	4	127,699	17.6%
	5 (High)	30,687	4.2%
	6	0	0%
	7 (Very High)	0	0%
	Total:	**727,200**	**100.0%**

Figure 7-2. Wildfire Threat



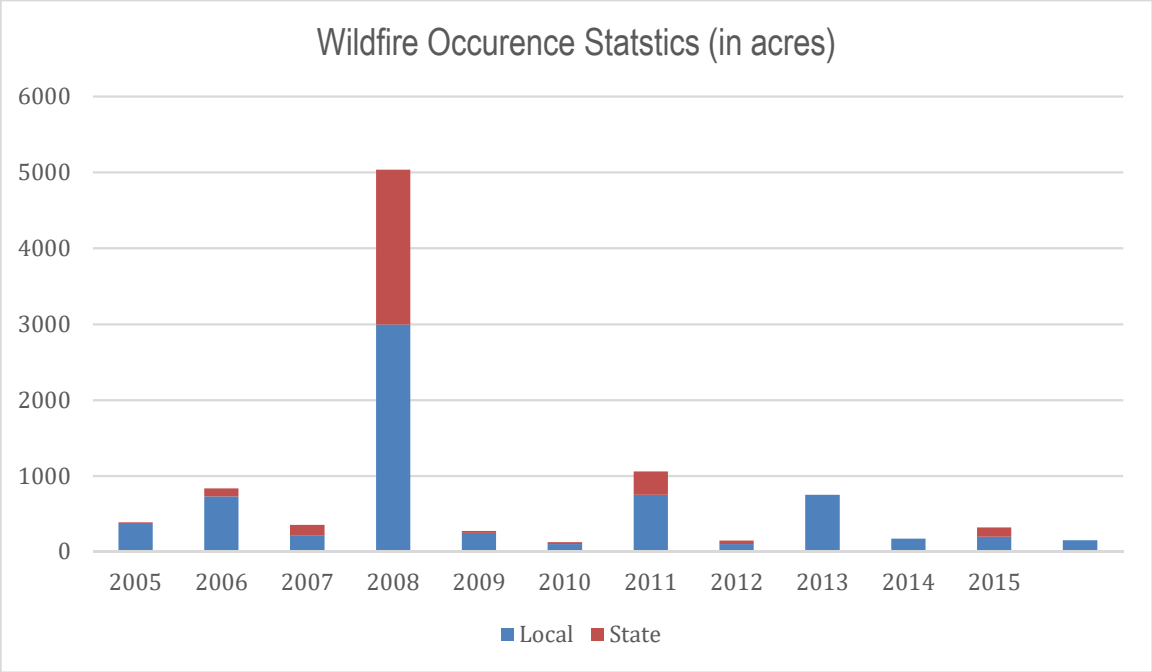
7.4 WILDFIRE OCCURRENCE STATISTICS

Per TFS, wildfire occurrence statistics provide insight as to the number of fires, acres burned and cause of fires in Texas. These statistics are useful for prevention and mitigation planning. They can be used to quantify the level of fire business, determine the time of year most fires typically occur, and develop a fire prevention campaign aimed at reducing a specific fire cause. The fire occurrence statistics are grouped by primary response agency type, which include:

- TFS – The TFS fire occurrence database represents all state-reported fires.
- Local – The local category includes fires reported via TFS's online fire department reporting system. It is a voluntary reporting system that includes fires reported by both paid and volunteer fire departments since 2005.

Sixteen years of historic fire report data was used to create the fire occurrence summary charts. Data was obtained from state and local fire department report data sources for the years 2005 to 2016. The compiled fire occurrence database was cleaned to remove duplicate records and to correct inaccurate locations.

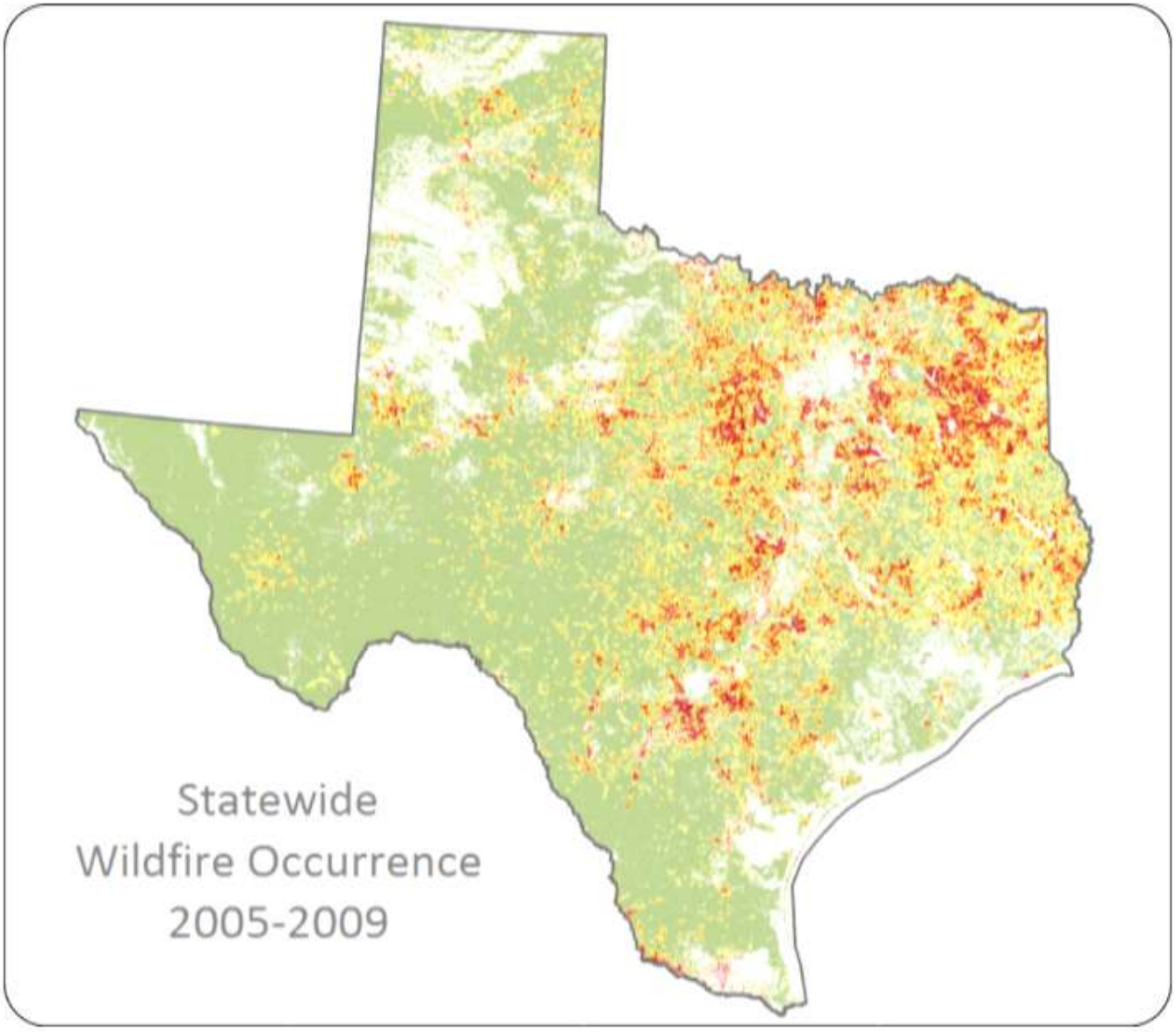
Figure 7-3. Wildfire Acres Burned in Williamson County and the State of Texas (2005–2016)



7.5 WILDFIRE IGNITION DENSITY

Wildfire ignition density as defined by TFS, is the likelihood of a wildfire starting based on historical ignition patterns. The TFS further states that occurrence is derived by modeling historic wildfire ignition locations to create an average ignition rate map. The ignition rate is measured in the number of fires per year per 1,000 acres. The mapping of the wildfire ignition density is only done on a statewide basis. However, the mapping identifies Williamson County to be located in a mixture of classifications from non-burnable (predominantly east of Interstate-35) to areas of very high burnability (predominantly found west of Interstate-35).

Figure 7-4. Statewide Wildfire Occurrence from 2005 to 2009



Source: TFS - Texas Wildfire Risk Assessment Summary Report Williamson County

7.6 AREAS OF HIGH WILDFIRE THREAT

Analysis of the document countywide wildfire characteristics and the overall wildfire threat in Williamson County indicate that typically, areas of the County that are at highest risk for wildfire are mostly west of Interstate-35 as well as just east of the Interstate. However, this does not preclude areas in the eastern portion of the County as having pockets of land with increased risk. More detailed information on wildfire characteristics and threat on the fire district level can be found in the appendices of this document.

8. COMMUNITY WILDFIRE PUBLIC INVOLVEMENT AND SURVEY

8.1 PUBLIC INVOLVEMENT

Broad public participation in the planning process helps ensure that diverse points of view about the planning area's needs are considered and addressed. The public must have opportunities to comment on wildfire mitigation plans during the drafting stages and prior to plan approval to ensure an implementable community-supported plan. The strategy for involving the public in this plan emphasized the following elements:

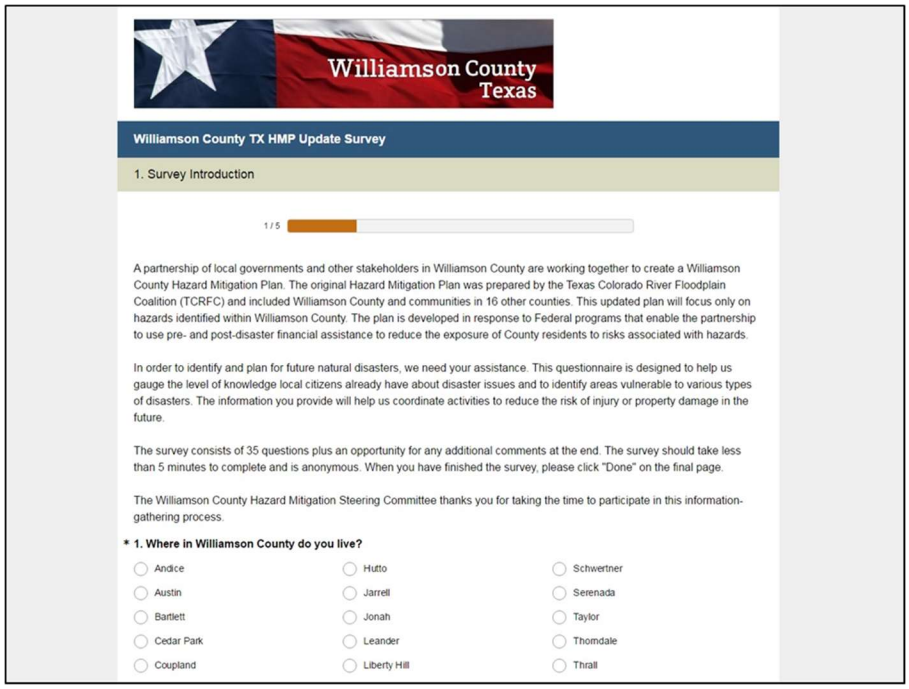
- Include members of the public on the Steering Committee
- Use a community survey/questionnaire to evaluate whether the public's perception of risk and support of hazard mitigation has changed since the initial planning process
- Attempt to reach as many planning area citizens as possible using multiple media
- Identify and involve planning area stakeholders
- Solicit public feedback at each stage of plan implementation, monitoring, and evaluation

8.1.1 Stakeholders and the Steering Committee

Stakeholders are the individuals, agencies, and jurisdictions that have a vested interest in the recommendations of the hazard mitigation plan, including planning partners. The effort to include stakeholders in this process included stakeholder participation on the Steering Committee. Stakeholders were encouraged to attend and participate in all committee meetings.

8.1.2 Survey/Questionnaire

As part of the planning process for the 2016 Williamson County Hazard Mitigation Plan a questionnaire (see associated figure was developed to gauge household preparedness for natural hazards; the level of knowledge of tools and techniques that assist in reducing risk and loss from natural hazards; and the perceived impact of natural hazards on Williamson County and participating cities' residents and businesses. This on-line questionnaire was designed to help identify areas vulnerable to one or more natural hazards. The answers to these 35 questions helped guide the Steering Committee in prioritizing hazards of impact and in selecting goals, objectives, and mitigation strategies. A total of 236 questionnaires were



completed during the course of this planning process.

The results of the survey and the information received from it should form a basis for implementing proactive actions including education and outreach efforts that address actual and perceived hazards of concern for a community. According to the survey:

- 58% of the respondents in the mitigation plan survey stated that they were concerned, very concerned or extremely concerned regarding the potential occurrence and impacts of wildfire in Williamson County.
- Additionally, 32% of the respondents stated that their property was located in an area at risk for wildfires.
- However, and possibly more importantly, 30% of the respondents stated that they were unsure as to whether their property was located in a high wildfire danger area.

Also of note are the types of projects that respondents prioritized for the county, state or federal government to undertake in order to reduce damage and disruption from hazard events within Williamson County These numbers indicate education and outreach would be beneficial to the general population within Williamson County in order to better understand wildfire risk and actions to reduce the risk. The highest-ranking projects fell in the following three categories:

- Retrofit and strengthen essential facilities such as police, fire, schools and hospitals
- Provide better public information about risk, and the exposure to hazards within the operational area
- Perform projects that restore the natural environments capacity to absorb the impacts from natural hazards

Table 8-1. Survey Question Regarding Agency Roles

2015-2016 Hazard Mitigation Plan Survey What types of projects do you believe the county, state or federal government agencies should be doing in order to reduce damage and disruption from hazard events within Williamson County?				
	High	Medium	Low	Total
Retrofit and strengthen essential facilities such as police, fire, schools and hospitals.	59.38%	31.77%	8.85%	192
Strengthen codes and regulations to include higher regulatory standards in hazard areas.	39.90%	42.49%	17.62%	193
Acquire vulnerable properties and maintain as open space.	24.35%	51.30%	24.35%	193
Assist vulnerable property owners with securing funding for mitigation.	23.32%	50.78%	25.91%	193
Provide better public information about risk, and the exposure to hazards within the operational area.	59.28%	30.93%	9.79%	194
Perform projects that restore the natural environments capacity to absorb the impacts from natural hazards.	49.74%	40.93%	9.33%	193
Perform projects that mitigate the potential impacts from climate change.	38.54%	32.81%	28.65%	192

Source: 2016 Williamson County Hazard Mitigation Plan Community Survey

As part of the committee input process for the development of this CWPP, the plan leadership of the CWPP initiated a new survey to gather community input specifically on the perceived threat and impacts of wildfire in the County. The link to the survey was provided to all steering and stakeholder committee members and they were encouraged to promote survey participation within their jurisdiction(s). Respondents to the survey were received from across the County with a strong response from the Georgetown and Hutto areas. Of the respondents 74% stated that they were private landowners within the County. Of the respondents, 13% stated that they were fire safety agency staff while an equal percentage stated that they were homeowner association representatives.

The survey included a question regarding the respondent's experience and knowledge concerning wildfire. A snapshot of the response can be seen below:

What is your experience/knowledge level concerning wildfire? Check all that apply.

ANSWER CHOICES		RESPONSES
Current or former professional wildland firefighter		12.50%
Current or former volunteer firefighter		20.83%
A wildland fire has threatened my home or community		25.00%
A wildland fire has never threatened my home or community		16.67%
I am very knowledgeable regarding wildland fire issues		20.83%
I have some familiarity with wildland fire issues		41.67%
I have little or no familiarity with wildland fire issues		29.17%
Other (please specify)	Responses	8.33%

While the survey shows that 34% of the respondents were experienced in firefighting, it identifies that approximately 42% of the respondents state that they have some and 29% of the respondents state they have no familiarity with wildland fire issues. Additionally, 25% of the respondents state that a wildfire has threatened their home or community. These numbers show that there is a definite opportunity for a significant portion of the Williamson County population to benefit from wildfire education and outreach.

The survey also asked participants to identify their most pressing concerns regarding wildfire in their communities and Williamson County. Some of the comments received included:

- Increased actions regarding prevention and rehabilitation
- Education and outreach on the potential impacts of unattended trash fires
- Safety of livestock and buildings - What to do... try to evacuate? Open gates and let livestock flee? What can I do to help prevent?
- As residents of particular subdivisions abutting ranch land/open space that is not well maintained – what can be done to reduce wildfire risks from dead trees, tall grass and property that is not maintained
- Lack of resources and manpower in portions of the County including water and manpower
- Careless human behavior that could start wildfires
- Extended response and containment times
- Areas of the County are prone to high winds. What can be done at the property-owner level to build fire breaks to stop or slow down wildfires
- Concerns that the County could experience a significant wildfire event similar to wildfires that have occurred in Bastrop County

When responding to the question "Please list your thoughts or concerns regarding the impacts of vegetation reduction projects on the natural landscape" responses included:

- Adequate buffers must be established (through land development controls) between new development and riparian corridors and heavy vegetation areas

- Some fire breaks are necessary
- No effort is being made to control vegetation
- Many dead trees now exist due to last drought
- Selective reduction in some areas is vital to lowering risk
- Balance is a concern... we must keep the entire ecosystem balance in mind
- Reduce vegetation around the home. Vegetation reduction around houses is the first step to protecting against wildfires
- Homeowners in the subdivisions need to take better care of reducing excessive vegetation in their back yards especially when they have fires in their fire pits on windy days

The majority of the comments concerning vegetation could be summed up with the following comment that was received: "… fire destroys everything in its path. Unfortunately, a lot of it could be prevented by people taking care of their property. New vegetation beautiful a few years after the fire."

Survey participants' responses included the following:

- 58% of the survey respondents supported the statement "We can create landscapes that are more fire-safe while protecting/enhancing conservation values."
- 89% of the respondents agreed with the statement "The risk of damaging wildfire is increasing."
- 54% of the respondents expressed an interest in learning more so that they can better assist with protecting/enhancing conservation values.
- 95% of the survey respondents identified an interest in presentations by local agencies on firefighting techniques.
- While 73% of the survey respondents stated that they clear brush annually from the structures on their property, only 17% responded that they maintain a minimum of 100 feet around their property. 100 feet is the recommended distance for defensible space around structures

Survey participants were asked to list one or two ways the public can best help government agencies to achieve their roles and responsibilities. Responses included:

- Ask for and be provided with information
- Seek education and make sure access is probable
- Attend community meetings concerning the topic
- Become friends.... get to know the PEOPLE in the agencies... so the efforts are considered those of people helping people... shared community
- Be self-reliant and not dependent on government help, stay on top of the government agency and keep them less agency and more task force
- Listen to advice given and have a plan

Finally, many of the comments can be summarized with the following statement:

- Get involved

The Williamson County Steering Committee leadership reviewed and considered this input and information when developing the types of strategies and targeted projects for implementation in the County as outlined in the following sections.

9. WILDFIRE PREPAREDNESS STRATEGIES

9.1 WILDFIRE OBJECTIVES

The following strategies have been drafted for implementation on a countywide basis. Once each of the participating fire districts have completed their community assessments, more detailed strategies and implementation actions will be developed and included in this dynamic planning document.

Objective: Complete Wildfire Risk Assessments.

- Obtain training from the Texas Forest Service and Texas A&M on initiating and completing community assessments
- Based on the completed neighborhood assessments, prioritize subdivisions and neighborhoods within the County that present the highest risks from wildfire and implement education, outreach and mitigation activities within those areas first.
- Using GIS mapping of wildfire hazard areas to facilitate analysis and planning decisions through comparison with zoning, development, infrastructure, etc.
- Incorporate and maintain Williamson County's Wildland-Urban Interface Risk Assessment GIS data elements.
- Developing and maintaining a database to track community vulnerability to wildfire.
- Incorporate structural vulnerability assessments developed at the community level into the Williamson County Wildland-Urban Interface Risk Assessments.
- Establish and Maintain Community Protection Assessment Maps

Objective: Implement the National Cohesive strategy (a collaborative process with active involvement of all levels of government and non-governmental organizations, as well as the public, to seek national, all-lands solutions to wildland fire management issues).

- Create and maintain a website to promote Williamson County's CWPP.
- Establish and maintain maps that identify where hazard reduction efforts have been completed and where they should be pursued.
- Encourage governmental and non-governmental agencies to work together in undertaking education and outreach programs and the understanding that wildfire mitigation and prevention is a joint responsibility of residents, property owners and governmental agencies.
- Encourage the implementation of a Fuels Management Program to reduce hazardous vegetative fuels on public lands, near essential infrastructure, or on private lands by working with both public and landowners.
- Create heightened awareness of wildfire risk issues and work with communities to develop sound prevention and mitigation strategies to ensure safety. With rapid population growth into WUI areas and

trends showing an increasing frequency of elevated fire weather conditions, wildfire will continue to be a major concern moving forward. The TxWRAP is an electronic web-based resource to help address this growing concern.

- Encourage property owners to log into the TxWRAP to understand the wildfire threats for their particular area based on landscape characteristics, historical fire occurrence, weather conditions, terrain and potential fire behavior. Using the Public Viewer and the "What's Your Risk?" tool, property owners will be able to find their risk level within a two-mile radius, plus information on how to reduce their risk.

- Initiate education and outreach programs that target citizens, businesses, developers, landscapers, and insurers among others to increase awareness of wildfire risk and strategies for protecting homes and infrastructure.

- Develop partnerships with neighborhood groups, homeowners' associations, and others to conduct outreach activities.

- Educate and inform the public about proper evacuation procedures.

- Using local fire departments to conduct education programs.

Objective: Establish recommendations for minimizing the impacts of wildfire. Address treatment of structural ignitability.

- On larger lot parcels, encourage maintenance of 100-foot defensible space around all structures. For those smaller lot parcels, encourage property owners to maintain the defensible spaces within their own areas of influence.

- Encourage coordination of codes and regulations across all incorporated jurisdictions within the planning area to accomplish a balance between each respective entity's mission and needed wildfire mitigation.

- Addressing density and quantity of development, as well emergency access, landscaping and water supply.

- Encourage the distribution of educational materials at the outset of the building permit review process. Educate residents on the concept that structures in wildfire hazard areas can be protected through the use of noncombustible building materials. Encourage the installation of roof coverings, sheathing, flashing, skylights, roof and attic vents, eaves, and gutters that conform to ignition-resistant construction standards and other combustible materials and building techniques.

- Ask local fire offices to provide outreach services with neighborhood organizations and special interest groups.

- Address fire mitigation through access, signage, fire hydrants, water availability, vegetation management, and special building construction standards.

Objective: Identify local capacity building and training needs.

- Maintain the Williamson County CWPP Steering Committee to oversee implementation, identify and coordinate funding opportunities, and sustain the Williamson County CWPP.

- Investigate opportunities for programs to cost share or provide tax incentives to assist landowners with mitigation activities like hazardous fuels removal and disposal.

- Developing adequate local fire suppression capacity to meet community protection needs.

- Objective: Promote wildfire awareness programs.

- Implement Firewise principles to safeguard homes and “Ready, Set, Go!”

- Create heightened awareness of wildfire risk issues and work with communities to develop sound prevention and mitigation strategies to ensure safety. With rapid population growth into WUI areas and trends showing an increasing frequency of elevated fire weather conditions, wildfire will continue to be a major concern moving forward.

- Ask fire district representatives to develop and implement focused community meetings, programs, and wildfire safety education efforts directed at structure and property owners in the WUI areas.

- Inform the public about the hazards of wildfire and their responsibility for emergency preparedness.

10. IMPLEMENTATION

10.1 ACCOMPLISHMENTS

Prioritization Worksheet Instructions

Please complete one worksheet per action with as much detail as possible, using the instructions beginning on page 3 and examples provided by FEMA.

Name of Jurisdiction: Williamson County **Mitigation Action #:** 5 (HMP #10)

Mitigation Action Title: Community Wildfire Protection Plan

Assessing the Risk	
Hazard(s) addressed: (check all that apply)	☐All Hazards ☒Wildfire ☐Drought ☐Lightning ☐Thunderstorm ☐Tornado ☐Wind ☐Winter Weather
Specific problem being Mitigated (describe why action is needed)	Williamson County has a large areas with high population densities in the wildland urban interface. Many of these areas contain large amount of fuel, limited access/egress, limited water supplies, and terrain not conducive to use of mechanized fire equipment.
Evaluation of Potential Alternatives	
Alternatives Considered (name of project and reason for not selecting)	1. Develop a comprehensive County-wide, all jurisdictions, CWPP. 2. Create a stand-alone County specific CWPP. 3. Take no action.
Action/Project Intended for Implementation	
Describe how action will be implemented (main steps involved)	Collaborate with public safety professional, building associations, homeowner's associations, forest service, public information professionals to develop a comprehensive CWPP to include public education, fuels reduction, residential mitigation, and response recommendations.
Action/Project Type	☒Local Plans and Regulations ☐Structure and Infrastructure Project ☒Natural Systems Protection ☒Education and Awareness Programs
Applicable Goals/Objectives (refer to list of goals/objectives)	☒Goal #1 ☒Goal #2 ☒Goal #3 ☒Goal #4 Objective: 1, 2, 3, 4 and 5
Applies to existing or future development	☐ Existing Development ☐Future Development ☒ Both Existing and Future Development ☐Not Applicable
Describe benefits (losses avoided)	☒Life Safety ☒Damage Reduction ☐Other Describe: Lessing environmental impact.
Estimated Cost	☐ < $10,000; ☐$10,000 to $100,000; ☒>$100,000 Other Amount: $
Plan for Implementation	
Responsible Department	Williamson County OEM, Williamson County Fire Chief's Association
Local Planning Mechanism (check all that apply)	☐Capital Improvement Plan ☒Comprehensive Plan ☐Building Code ☐Ordinance ☐Other:
Potential Funding Sources	General Budget, FEMA Hazard Mitigation Funding, Donations/Sponsorship
Timeline for Completion	☒ Short Term (1-5 yrs.) ☐ Long Term (>5 yrs.) ☒ Ongoing
Reporting on Progress	
Status/Comment	☐Not Started ☐In-progress ☐Delayed ☐Completed ☐No Longer Required Comment:
Completed by: (name, title, phone #)	**Jarred Thomas, EMC 512.864.8269** **Date: 07.14.15**

Prioritization Worksheet Instructions

Mitigation Action #: 5 (HMP #10)

Mitigation Action Title: Community Wildfire Protection Plan

Criteria	Numeric Rank: Definitely Yes = 4, Maybe Yes = 3, Unknown/Neutral = 2, Probably No = 1, Definitely No = 0		Provide brief rationale for numeric rank when appropriate
1. Will the action result in Life Safety?	4	x 2 = 8	This plan is designed to promote and preserve Life Safety as is relates to wildfires.
2. Will the action result in Property Protection?	4	x 2 = 8	This plan is designed to increase defendable space and mitigate personal property against wildfire.
3. Will the action be Cost-Effective? (future benefits exceed cost)		4	The development of plan is low cost and serve as the basis for wildfire mitigation for many years.
4. Is the action Technically feasible		4	Technology exist to aid in the threat analysis and GIS mapping to aid in the prioritization of areas at risk.
5. Is the action Politically acceptable?		4	Yes, this plan has the support of the Court.
6. Does the jurisdiction have the Legal authority to implement?		4	Yes
7. Is Funding available for the action?		3	No direct funding allocated for the project, grant funding will be sought to complete the project.
8. Will the action have a positive impact on the natural Environment?		4	Yes, this plan will lead to better land management, lowering risk thereby reducing the risk to environmentally sensitive areas.
9. Is the action Socially acceptable?		4	Yes
10. Does the jurisdiction have the Administrative capability to execute the action?		2	Additional staffing is needed to devote to the project.
11. Will the action reduce risk to more than one hazard (Multi-Hazard)?		2	Portions of the planning process should relate to additional hazards for future plans.
12. Can the action be implemented Quickly?		3	No
13. Is there an Agency/Department Champion for the action?		4	Williamson County OEM and Williamson County Fire Chief's Association.
14. Will the action meet other Community Objectives?		4	Yes, this project will aid in the protection of environmentally sensitive areas.
Total		58	
Priority: Low = <35, Medium = 35-49, High = >50	☐Low ☐Medium ☒High		

10.2 CHIPPING PROGRAM RESULTS

To be added as chipping programs and projects are completed.

10.3 WILDFIRE IMPLEMENTATION TO DATE

Project worksheets indicating the progress of projects and project implementation are provided in the following pages.

Prioritization Worksheet Instructions

Please complete one worksheet per action with as much detail as possible, using the instructions beginning on page 3 and examples provided by FEMA.

Name of Jurisdiction: Williamson County **Mitigation Action #:** 7 (HMP #12)

Mitigation Action Title: All-Hazards Mapping

Assessing the Risk	
Hazard(s) addressed: (check all that apply)	☒All Hazards ☐Wildfire ☐Drought ☐Lightning ☐Thunderstorm ☐Tornado ☐Wind ☐Winter Weather
Specific problem being Mitigated (describe why action is needed)	Williamson County is 1184 sq miles and tracking hazards, vulnerable populations, critical infrastructure and key resources is difficult to maintain operational awareness.
Evaluation of Potential Alternatives	
Alternatives Considered (name of project and reason for not selecting)	1. Create a County-wide All-Hazards mapping solution. 2. Create a County specific All-Hazards mapping solution. 3. Take no action.
Action/Project Intended for Implementation	
Describe how action will be implemented (main steps involved)	Collaborate with public safety professionals, GIS, hazard specific subject matter experts, private partners, and CIKR owner/operators to obtain data and create a comprehensive All-Hazards mapping solution. Additional GIS tools maybe required to facilitate that use of the data.
Action/Project Type	☒Local Plans and Regulations ☒Structure and Infrastructure Project ☐Natural Systems Protection ☐Education and Awareness Programs
Applicable Goals/Objectives (refer to list of goals/objectives)	☒Goal #1 ☒Goal #2 ☒Goal #3 ☒Goal #4 Objective: 1, 2, 3, 4, and 5
Applies to existing or future development	☐ Existing Development ☐Future Development ☒ Both Existing and Future Development ☐Not Applicable
Describe benefits (losses avoided)	☒Life Safety ☒Damage Reduction ☐Other Describe: Lessing environmental impact.
Estimated Cost	☐ < $10,000; ☒$10,000 to $100,000; ☐>$100,000 Other Amount: $
Plan for Implementation	
Responsible Department	Williamson County OEM
Local Planning Mechanism (check all that apply)	☐Capital Improvement Plan ☒Comprehensive Plan ☐Building Code ☐Ordinance ☐Other:
Potential Funding Sources	General Budget, FEMA Hazard Mitigation Funding, Donations/Sponsorship
Timeline for Completion	☐ Short Term (1-5 yrs.) ☐ Long Term (>5 yrs.) ☒ Ongoing
Reporting on Progress	
Status/Comment	☐Not Started ☐In-progress ☐Delayed ☐Completed ☐No Longer Required Comment:
Completed by: (name, title, phone #)	**Jarred Thomas, EMC 512.864.8269** **Date: 07.14.15**

Prioritization Worksheet Instructions

Mitigation Action #: 7 (HMP #12)

Mitigation Action Title: All-Hazards Mapping

Criteria	Numeric Rank: Definitely Yes = 4, Maybe Yes = 3, Unknown/Neutral = 2, Probably No = 1, Definitely No = 0		Provide brief rationale for numeric rank when appropriate
1. Will the action result in Life Safety?	4	x 2 = 8	This will greatly assist local planners and public safety officials better identify threats to the community and to businesses and develop plans to mitigate and respond to emergencies.
2. Will the action result in Property Protection?	4	x 2 = 8	See above.
3. Will the action be Cost-Effective? (future benefits exceed cost)		4	The project will be cost effective and serve as a basis for All-Hazard planning. Once completed the base map would only require periodic updating.
4. Is the action Technically feasible		4	The County currently possess the technology to develop and maintain the maps.
5. Is the action Politically acceptable?		4	Yes
6. Does the jurisdiction have the Legal authority to implement?		4	Yes
7. Is Funding available for the action?		3	No dedicated funding allocated, most likely completed through departmental budgeting and potential grant funding.
8. Will the action have a positive impact on the natural Environment?		4	Yes, indirectly through additional planning processes.
9. Is the action Socially acceptable?		4	No known social issues.
10. Does the jurisdiction have the Administrative capability to execute the action?		4	Yes, the County maintains a robust GIS department.
11. Will the action reduce risk to more than one hazard (Multi-Hazard)?		4	Yes, this will aid in All-Hazards planning and risk assessments.
12. Can the action be implemented Quickly?		3	The mapping process is under development and is being updated and modified as additional information is obtained.
13. Is there an Agency/Department Champion for the action?		4	Williamson County OEM, HAZMAT, 911, and GIS
14. Will the action meet other Community Objectives?		4	This will play a significant role in future planning which will have an impact on other objectives.
Total		62	
Priority: Low = <35, Medium = 35-49, High = >50	☐Low ☐Medium ☒High		

10.1 WILDFIRE PROJECTS FUNDED TO DATE

Williamson County was awarded hazard mitigation funds following the 2011 Texas Fires to construct a shaded fuel break along sections of the Williamson County Southwest Regional Park perimeter. Funding was awarded in 2016 and the project was completed in February 2017. In total, a 50-foot-wide by 5-mile-long shaded fuel break was constructed. This project has greatly reduced the risk to adjacent homes and to environmentally sensitive areas within the park.

10.2 OTHER PRIORITIZED WILDFIRE PROJECTS

To be added as developed and prioritized

Prioritization Worksheet Instructions

Please complete one worksheet per action with as much detail as possible, using the instructions beginning on page 3 and examples provided by FEMA.

Name of Jurisdiction: Williamson County **Mitigation Action #:** 1

Mitigation Action Title: Wildfire Fuels Reduction

Assessing the Risk	
Hazard(s) addressed: (check all that apply)	☐All Hazards ☒Wildfire ☒Drought ☐Lightning ☐Thunderstorm ☐Tornado ☒Wind ☐Winter Weather
Specific problem being Mitigated (describe why action is needed)	Williamson County owns or maintains multiple parks and preserves, most are located in the Wildland Urban Interface. Many of the parks border residential subdivisions or commercial real estate.
Evaluation of Potential Alternatives	
Alternatives Considered (name of project and reason for not selecting)	1. Perform fuels reduction and create shaded fuel breaks on the property perimeter 2. Create burn units on larger tracts to implement prescribe burning. 3. Take no action.
Action/Project Intended for Implementation	
Describe how action will be implemented (main steps involved)	Perform a THIRA on each property and develop a priority list of properties requiring mitigation actions. Following EHP assessments perform the fuels reduction and create shaded fuel breaks. Upon completion, prescribed burning should take place where appropriate to lower fuel loads.
Action/Project Type	☒Local Plans and Regulations ☐Structure and Infrastructure Project ☒Natural Systems Protection ☐Education and Awareness Programs
Applicable Goals/Objectives (refer to list of goals/objectives)	☒Goal #1 ☒Goal #2 ☐Goal #3 ☐Goal #4 Objective: 2
Applies to existing or future development	☐ Existing Development ☐Future Development ☒ Both Existing and Future Development ☐Not Applicable
Describe benefits (losses avoided)	☒Life Safety ☒Damage Reduction ☐Other Describe
Estimated Cost	☐ < $10,000; ☐$10,000 to $100,000; ☒>$100,000 Other Amount: $
Plan for Implementation	
Responsible Department	Williamson Parks and OEM
Local Planning Mechanism (check all that apply)	☐Capital Improvement Plan ☒Comprehensive Plan ☐Building Code ☐Ordinance ☐Other:
Potential Funding Sources	General Budget, FEMA Hazard Mitigation Funding, Private Donations, Volunteer Support
Timeline for Completion	☐ Short Term (1-5 yrs.) ☒ Long Term (>5 yrs.) ☐ Ongoing
Reporting on Progress	
Status/Comment	☐Not Started ☐In-progress ☐Delayed ☐Completed ☐No Longer Required Comment:
Completed by: (name, title, phone #)	**Jarred Thomas, EMC 512.864.8269** **Date: 07.14.15**

Prioritization Worksheet Instructions

Mitigation Action #: 1 _____

Mitigation Action Title: Wildfire Fuels Reduction

Criteria	Numeric Rank: Definitely Yes = 4, Maybe Yes = 3, Unknown/Neutral = 2, Probably No = 1, Definitely No = 0		Provide brief rationale for numeric rank when appropriate
1. Will the action result in Life Safety?	4	x 2 = 8	This greatly reduce the uncontrolled spread of wildfire that threatens large populations.
2. Will the action result in Property Protection?	4	x 2 = 8	This greatly reduce the uncontrolled spread of wildfire that threatens large numbers or structures.
3. Will the action be Cost-Effective? (future benefits exceed cost)		4	The cost of these projects is minimal compared to the amount of property at risk to the adjacent parks.
4. Is the action Technically feasible		4	Yes
5. Is the action Politically acceptable?		4	Yes, first project is nearing the environmental assessment acceptance and subsequent grant funding.
6. Does the jurisdiction have the Legal authority to implement?		4	Yes
7. Is Funding available for the action?		3	No budget allocations, grant funding has been and will continue to be sought for these projects.
8. Will the action have a positive impact on the natural Environment?		3	This will aid in protecting the environmentally sensitive areas that comprise the parks and preserves.
9. Is the action Socially acceptable?		4	There may be minimal local opposition to the creation of shades fuel breaks through the removal of vegetation immediately adjacent to a home owner's property.
10. Does the jurisdiction have the Administrative capability to execute the action?		4	Through the use of private contractors and volunteers the Parks Dept. can manage the project with minimal assistance from OEM.
11. Will the action reduce risk to more than one hazard (Multi-Hazard)?		3	This will aid in the reduction of large quantities of water to extinguish a wildfire, this critical during a drought.
12. Can the action be implemented Quickly?		3	This is dependent on the size of the property and time of year. Many properties have environmental constraints on when work may be performed.
13. Is there an Agency/Department Champion for the action?		4	Williamson County Parks and OEM
14. Will the action meet other Community Objectives?		4	
Total		54	
Priority: Low = <35, Medium = 35-49, High = >50	☐Low ☐Medium ☒High		

Prioritization Worksheet Instructions

Please complete one worksheet per action with as much detail as possible, using the instructions beginning on page 3 and examples provided by FEMA.

Name of Jurisdiction: Williamson County **Mitigation Action #:** 2

Mitigation Action Title: Critical Infrastructure Threat Hazard Identification Risk Analysis (THIRA)

Assessing the Risk	
Hazard(s) addressed: (check all that apply)	☒All Hazards ☐Wildfire ☐Drought ☐Lightning ☐Thunderstorm ☐Tornado ☐Wind ☐Winter Weather
Specific problem being Mitigated (describe why action is needed)	To determine the Threat Hazard for each of the County's facilities to identify and prioritize measures to mitigate against continuing or future damages incurred as a result from an All-Hazards related event.
Evaluation of Potential Alternatives	
Alternatives Considered (name of project and reason for not selecting)	1. Perform a comprehensive THIRA of each facility, create comprehensive map, and mitigation prioritization plan. 2. Audit only facilities deemed at Critical Infrastructure. 3. Take no action.
Action/Project Intended for Implementation	
Describe how action will be implemented (main steps involved)	As a part of the County COOP planning process audit and map each facility relating to the potential risk to natural hazards. Develop a prioritization list and strategies for mitigating potential risks and hazards.
Action/Project Type	☒Local Plans and Regulations ☐Structure and Infrastructure Project ☐Natural Systems Protection ☐Education and Awareness Programs
Applicable Goals/Objectives (refer to list of goals/objectives)	☒Goal #1 ☒Goal #2 ☒Goal #3 ☐Goal #4 Objective: 1, 2
Applies to existing or future development	☐ Existing Development ☐Future Development ☒ Both Existing and Future Development ☐Not Applicable
Describe benefits (losses avoided)	☒Life Safety ☒Damage Reduction ☐Other Describe
Estimated Cost	☐ < $10,000; ☐$10,000 to $100,000; ☒>$100,000 Other Amount: $
Plan for Implementation	
Responsible Department	All Williamson County Departments
Local Planning Mechanism (check all that apply)	☒Capital Improvement Plan ☒Comprehensive Plan ☐Building Code ☐Ordinance ☐Other:
Potential Funding Sources	General Budget, FEMA Hazard Mitigation Funding, Bond Packages
Timeline for Completion	☐ Short Term (1-5 yrs.) ☐ Long Term (>5 yrs.) ☒ Ongoing
Reporting on Progress	
Status/Comment	☐Not Started ☐In-progress ☐Delayed ☐Completed ☐No Longer Required Comment:
Completed by: (name, title, phone #)	**Jarred Thomas, EMC 512.864.8269** **Date: 07.14.15**

Prioritization Worksheet Instructions

Mitigation Action #: 2 _____

Mitigation Action Title: Critical Infrastructure THIRA

Criteria	Numeric Rank: Definitely Yes = 4, Maybe Yes = 3, Unknown/Neutral = 2, Probably No = 1, Definitely No = 0		Provide brief rationale for numeric rank when appropriate
1. Will the action result in Life Safety?	4	x 2 = 8	Through the identification and mitigation of risks and hazards will render County facilities safer.
2. Will the action result in Property Protection?	4	x 2 = 8	See above.
3. Will the action be Cost-Effective? (future benefits exceed cost)		4	This will be a cost effective means to risk/hazard identification during the COOP planning process. Through COOP the facilities should continually be evaluated and updated as necessary.
4. Is the action Technically feasible		4	Yes
5. Is the action Politically acceptable?		4	Yes
6. Does the jurisdiction have the Legal authority to implement?		4	Yes
7. Is Funding available for the action?		4	Yes, departmental budgets.
8. Will the action have a positive impact on the natural Environment?		2	Unknown impact to environment, but will likely identify potential threats to be mitigated.
9. Is the action Socially acceptable?		4	Yes
10. Does the jurisdiction have the Administrative capability to execute the action?		4	Yes, as a County-wide effort.
11. Will the action reduce risk to more than one hazard (Multi-Hazard)?		3	Yes, this will be focused on All-Hazards.
12. Can the action be implemented Quickly?		3	Yes, this will be a portion of the COOP planning process.
13. Is there an Agency/Department Champion for the action?		4	Williamson County OEM
14. Will the action meet other Community Objectives?		4	Will aid in sustaining Continuity of Operations and Government.
Total		54	
Priority: Low = <35, Medium = 35-49, High = >50	☐Low ☐Medium ☒High		

Prioritization Worksheet Instructions

Please complete one worksheet per action with as much detail as possible, using the instructions beginning on page 3 and examples provided by FEMA.

Name of Jurisdiction: Williamson County **Mitigation Action #:** 3 (HMP #7)

Mitigation Action Title: Comprehensive Evacuation Planning

Assessing the Risk	
Hazard(s) addressed: (check all that apply)	☐All Hazards ☒Wildfire ☐Drought ☐Lightning ☐Thunderstorm ☐Tornado ☐Wind ☐Winter Weather
Specific problem being Mitigated (describe why action is needed)	Williamson County's population continues to growth at rapid rate. With increasing road congestion, evacuating a large number of persons from an area may be difficult to achieve in a rapid manner.
Evaluation of Potential Alternatives	
Alternatives Considered (name of project and reason for not selecting)	1. Develop a county-wide comprehensive evacuation plan, with maps, messages, routing, pre-assigned rally points as a supplement to other operational plans. 2. Establish evacuation routes and canned warning messages for high hazard areas. 3. Take no action.
Action/Project Intended for Implementation	
Describe how action will be implemented (main steps involved)	Collaborate with public safety professional, traffic engineers, public information professionals and homeowner's association to develop comprehensive plans and messaging. Area specific plans based upon local THIRA.
Action/Project Type	☒Local Plans and Regulations ☐Structure and Infrastructure Project ☐Natural Systems Protection ☒Education and Awareness Programs
Applicable Goals/Objectives (refer to list of goals/objectives)	☒Goal #1 ☒Goal #2 ☒Goal #3 ☐Goal #4 Objective: 5
Applies to existing or future development	☐ Existing Development ☐Future Development ☒ Both Existing and Future Development ☐Not Applicable
Describe benefits (losses avoided)	☒Life Safety ☐Damage Reduction ☐Other Describe:
Estimated Cost	☒ < $10,000; ☐$10,000 to $100,000; ☐>$100,000 Other Amount: $
Plan for Implementation	
Responsible Department	Williamson County OEM
Local Planning Mechanism (check all that apply)	☐Capital Improvement Plan ☒Comprehensive Plan ☐Building Code ☐Ordinance ☐Other:
Potential Funding Sources	General Budget, FEMA Hazard Mitigation Funding, Donations/Sponsors
Timeline for Completion	☐ Short Term (1-5 yrs.) ☐ Long Term (>5 yrs.) ☒ Ongoing
Reporting on Progress	
Status/Comment	☐Not Started ☐In-progress ☐Delayed ☐Completed ☐No Longer Required Comment:
Completed by: (name, title, phone #)	**Jarred Thomas, EMC 512.864.8269** **Date: 07.14.15**

Mitigation Action #: 3 (HMP #7)

Mitigation Action Title: Comprehensive Evacuation Planning

Criteria	Numeric Rank: Definitely Yes = 4 Maybe Yes = 3 Unknown/Neutral = 2 Probably No = 1 Definitely No = 0		Provide brief rationale for numeric rank when appropriate
1. Will the action result in Life Safety?	4	x 2 = 8	Preplanned and rapid evacuations will result in Life Safety.
2. Will the action result in Property Protection?	2	x 2 = 4	This may result in personal property preservation through faster evacuation notices.
3. Will the action be Cost-Effective? (future benefits exceed cost)		4	Plans are based upon populations and associated local risk. Once a plan has been established it should remain relatively unchanged. That allows for more rapid development of plans for new developments.
4. Is the action Technically feasible		4	The technology to create and maintain the maps is available at the County. The information may be able to be loaded additionally into the Computer Aided Dispatch system.
5. Is the action Politically acceptable?		4	Yes
6. Does the jurisdiction have the Legal authority to implement?		4	Yes
7. Is Funding available for the action?		3	Departmental budgeting is available to produce the mapping solution.
8. Will the action have a positive impact on the natural Environment?		2	Unknown if this will have a positive impact on the environment.
9. Is the action Socially acceptable?		4	Yes
10. Does the jurisdiction have the Administrative capability to execute the action?		2	Yes
11. Will the action reduce risk to more than one hazard (Multi-Hazard)?		3	Yes, this will be developed for All-Hazards in conjunction with the All-Hazards Mapping project.
12. Can the action be implemented Quickly?		3	
13. Is there an Agency/Department Champion for the action?		3	Williamson County OEM, Road and Bridge, SO, and GIS
14. Will the action meet other Community Objectives?		3	This will aid in Community Resiliency.
Total		50	
Priority: **Low = <35** **Medium = 35-49** **High = >50**	☐Low ☐Medium ☒High		

Prioritization Worksheet Instructions

Please complete one worksheet per action with as much detail as possible, using the instructions beginning on page 3 and examples provided by FEMA.

Name of Jurisdiction: Williamson County **Mitigation Action #:** 6 (HMP #11)

Mitigation Action Title: Burn Ban Sign Installation

Assessing the Risk	
Hazard(s) addressed: (check all that apply)	☐All Hazards ☒Wildfire ☒Drought ☐Lightning ☐Thunderstorm ☐Tornado ☐Wind ☐Winter Weather
Specific problem being Mitigated (describe why action is needed)	Williamson County has difficulty in conveying burn ban information to residents even through the use of social media outlets, media releases, and county websites. Signage along county roadways will provide additional messaging in the rural areas where burning is most prevalent.
Evaluation of Potential Alternatives	
Alternatives Considered (name of project and reason for not selecting)	1. Install road signage to existing poles that reads "Burn Ban in Effect". 2. Provide media releases, social media releases, and update website. 3. Take no action.
Action/Project Intended for Implementation	
Describe how action will be implemented (main steps involved)	Appropriate signage would be placed strategically through Williamson County, primarily in the rural areas, by County Road and Bridge personnel. During burn bans, the signs could be positioned to read the message by local fire departments and/or road and bridge personnel.
Action/Project Type	☒Local Plans and Regulations ☒Structure and Infrastructure Project ☒Natural Systems Protection ☒Education and Awareness Programs
Applicable Goals/Objectives (refer to list of goals/objectives)	☒Goal #1 ☒Goal #2 ☒Goal #3 ☐Goal #4 Objective: 5
Applies to existing or future development	☐ Existing Development ☒Future Development ☐ Both Existing and Future Development ☐Not Applicable
Describe benefits (losses avoided)	☒Life Safety ☒Damage Reduction ☐Other Describe: Lessing environmental impact.
Estimated Cost	☒ < $10,000; ☐$10,000 to $100,000; ☐>$100,000 Other Amount: $
Plan for Implementation	
Responsible Department	Williamson County OEM and Williamson County Fire Chief's Association.
Local Planning Mechanism (check all that apply)	☒Capital Improvement Plan ☒Comprehensive Plan ☐Building Code ☐Ordinance ☐Other:
Potential Funding Sources	General Budget, FEMA Hazard Mitigation Funding, Donations/Sponsorship
Timeline for Completion	☒ Short Term (1-5 yrs.) ☐ Long Term (>5 yrs.) ☒ Ongoing
Reporting on Progress	
Status/Comment	☐Not Started ☐In-progress ☐Delayed ☐Completed ☐No Longer Required Comment:
Completed by: (name, title, phone #)	**Jarred Thomas, EMC 512.864.8269** **Date: 07.14.15**

APPENDICES

Appendix A.

Williamson County Interjurisdictional Community Wildfire Protection Plan Steering and Stakeholder Committee Meeting Agendas and Sign in Sheets

AGENDA

Williamson County Wildfire Protection Plan
Steering Committee Meeting

Friday, March 3, 2017 | 9:00 a.m.

1. Welcome and Introductions
2. What is a Community Wildfire Protection Plan and Why?
3. What is Hazard Mitigation and Why?
4. Drivers / Guidance for a CWPP
5. Core Committee Purpose and Responsibilities
6. Plan Partners
    a. Fire Protection Districts
7. Proposed Goals and Objectives of the CWPP
8. DRAFT Structure of the Plan
9. Mitigation Actions/Projects
    a. Review Mitigation Actions from current Williamson County Hazard Mitigation Plan
    b. Draft of the Mitigation Actions Catalog (Draft in packet)
10. Critical Facilities discussion
11. Next Steps
    a. Property Assessment Process
        i. Form / template previously used?
    b. Capabilities Assessment
    c. Hazard analysis review
    d. Community / Municipal / Fire Protection District Information Worksheet
    e. Community participation and survey (in packet)
12. Adjournment

Williamson County Community Wildfire Protection Plan Kick Off Meeting		WILLIAMSON COUNTY		Kick Off Meeting - February 3, 2017, 11:00 AM Williamson County Jester Annex 1801 E. Old Settlers Blvd. Round Rock, TX 78664
Committee Member	**Signature**	**Position/Agency**	**Phone Number**	**Email Address**
Allen, Jared	MS. Jean	NOAA, National Weather Service	662-231-2491	jared.allen@noaa.gov
Arctur PhD, John — David	David Arctur	University of Texas	512-771-1434	david.arctur@utexas.edu
Belcher, Bobby		Jarrell Fire Chief	254-931-1563	bobby.belcher@wilcoesd5.org
Bell, Randy		Wilco Parks Director	~~254~~ 512 943-1922	randy.bell@wilco.org
Berg, Chad		EMC, Georgetown	254-8995099	Chad.Berg@georgetown.org
Blank, Scott		USACE		Scott.W.Blank@usace.army.mil
Boyd, Gary		Wilco Environmental Program Director	512/913-1921	gboyd@wilco.org
Bright, John		EMC, Cedar Park	512-791-1268	John.Bright@cedarparktexas.gov
Chody , Robert		Williamson County Sheriff		rchody@wilco.org
Clarno PE, Jim		Lower Brushy Creek WCID, General Manager	512-943-0822	jim.clarno@att.net
Collinsworth, David		Brazos River Authority's regional manager for the Central and Lower Basins		David.Collinsworth@brazos.org
Dickson, John				Johnd@brazos.org
Doebbler, Jack		District Coordinator, Texas Division of Emergency Management		Jack.Doebbler@dps.texas.gov
Ekiss, Pat		Taylor Fire Chief		pat.ekiss@taylortx.gov
Engelmann, Craig S.		USDA County Executive Director		craig.engelmann@tx.usda.gov
Evans, Harry				harryevans@utexas.edu
Evertson, Terron		Wilco Road and Bridge		tevertson@wilco.org
Gardner, Bill		Leander Fire Chief	512-528-1664	bgardner@leandertx.gov
Gardner, Tracy		Coupland Volunteer Fire Department		tgardner@coplandfire.org
Gattis, Dan		Williamson County Judge		dgattis@wilco.org
Haberman, Ruth		Upper Brushy Creek WCID		ruth.haberman@upperbrushycreekwcid.org
Halden, D		Round Rock		Dhalden@roundrocktexas.gov
Hampshire, Nick		NOAA, National Weather Service	817-658-4691	nick.hampshire@noaa.gov

Williamson County Community Wildfire Protection Plan Kick-Off Meeting		WILLIAMSON COUNTY		Kick Off Meeting - February 3, 2017, 11:00AM Williamson County Jester Annex 1801 E. Old Settlers Blvd. Round Rock, TX 78664
Committee Member	**Signature**	**Position/Agency**	**Phone Number**	**Email Address**
Herrin, Marty	Marty	Williamson County Hazmat, Response Team Chief	512-864-8224	mherrin39@gmail.com
Hughes, Billy				hughesbuilding@msn.com
Isbell, Robert		Round Rock, Fire Chief		risabell@roundrocktexas.gov
Kerwood, Scott		Hutto Fire Rescue		sdkerwood@huttofirerescue.org
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Lincoln, Anthony		Liberty Hill Fire		alincoln@libertyhillfire.org
Madsen, Larry	Larry Madsen	Commissioner Precinct 4		larry.madsen@wilco.org
Mahaffey, Jeff		USACE		Jeffrey.L.Mahaffey@usace.army.mil
Mallinger, James		Cedar Park Fire Chief		james.mallinger@cedarparktexas.gov
Martin, Frank		Williamson County		fmartin@wilco.org
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Miller, Dorothy		EMC, Round Rock		dmiller@roundrocktexas.gov
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Moeller, Ryan		Williamson County and Cities Health District		rmoeller@wcchd.org
Parker, Scott		Director, Wilco Emergency Communications		sparker@wilco.org
Pearson, Daniel		USGS	512-927-3500	dpearson@usgs.gov
Porcher, Matt		City of Austin	512-241-9061	matthew.porcher@austintexas.gov
Roussel, Meghan	at sick - Jennifer Wilson sub	USGS		mroussel@usgs.gov
Samuelson, Warren D.	Warren D Samuelson	Texas Commission on Environmental Quality		WSamuels@tceq.state.tx.us
Schneider, Cheryl		Wilco Animal Services Director	512-943-3597	cschneider@wilco.org

Hines, Kara TFS

Williamson County
Community Wildfire Protection Plan
Kick Off Meeting

WILLIAMSON COUNTY TEXAS

Kick Off Meeting - February 3, 2017, 11:00 AM
Williamson County Jester Annex
1801 E. Old Settlers Blvd.
Round Rock, TX 78664

Committee Member	Signature	Position/Agency	Phone Number	Email Address
Shelton, Robert (Bobby)		Florence Volunteer Fire Department	254-743-2591	rshelton@florencevfd.org
Sneed, John		Wilco Emergency Services Senior Director	512-864-8210	jsneed@wilco.org
Sparks, Leon		Cedar Park		Leon.Sparks@cedarparktexas.gov
Strebel, George		Wilco GIS Manager	512-943-1474	gstrebel@wilco.org
Sullivan, John		Georgetown		john.sullivan@georgetown.org
Terrill, Cooper		Texas A & M		Cooper.Terrill@ag.tamu.edu
Thomas, Jarred		Williamson County Office of Emergency Management		JThomas@wilco.org
Thompson, Roger		Police ~~Fire~~ Chief, City of Jarrell	512-746-5333	R.thompson@cityofjarrell.com chief@cityofjarrell.com
Vaughn, Steve		Brazos River Authority, Emergency Safety Comp. Officer	254-761-3136	Steve.Vaughn@brazos.org
Vrable, Steven				srvrabel@peoplepc.com
Webb, Tom		USACE		Tom.R.Webb@usace.army.mil
Wofford, Michael		Williamson County Hazmat	512-864-8222	mwofford@wilco.org
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Russell Summers		RM / LISD	512 8446322	Russell.Summers@leandri.sd.org
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Cynthia Long				
Connie Watson		PIO Williamson County	512-943-1663	cwatson@wilco.org
Adam Story		Cedar Park Fire	512-470-9292	adam.story@cedarparktexas.gov
John Dittman		RRFD	512-677-3820	JDittman@roundrocktexas.gov
Kim Jones		RR GIS	5122185426	kjones@roundrocktexas.gov

Williamson County
Community Wildfire Protection Plan
Kick Off Meeting

WILLIAMSON COUNTY

Kick Off Meeting - February 3, 2017, 11:00 AM
Williamson County Jester Annex
1801 E. Old Settlers Blvd.
Round Rock, TX 78664

Committee Member	Signature	Position/Agency	Phone Number	Email Address
MARK MEADOWS		OPS CHIEF / ESD 5	512 4236104	mark.meadows@wilcoesd5.org
Blake Clampitt		Asst Chief	512 9740472	blake.clampitt@wilcoesd4.org

Consultant Team	Signature	Representing	Phone Number	Email Address
Laura Johnston		Tetra Tech		laura.johnston@tetratech.com
Cynthia Blanco		Tetra Tech		cynthia.blanco@tetratech.com

AGENDA

Williamson County Wildfire Protection Plan
Core Group
Meeting

Friday, March 10, 2017 | 9:00 a.m.

1. Welcome and Introductions
2. What is a Community Wildfire Protection Plan and Why?
3. What is Hazard Mitigation and Why?
4. Drivers / Guidance for a CWPP
5. Core Committee Purpose and Responsibilities
6. Plan Partners
    a. Fire Protection Districts
7. Proposed Goals and Objectives of the CWPP
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11. Next Steps
    a. Property Assessment Process
        i. Form / template previously used?
    b. Capabilities Assessment
    c. Hazard analysis review
    d. Community / Municipal / Fire Protection District Information Worksheet
    e. Community participation and survey (in packet)
12. Adjournment

Williamson County Community Wildfire Protection Plan CORE Committee Meeting		WILLIAMSON COUNTY 1848		Kick Off Meeting - March 10, 2017, 9:00 am Williamson County EOC & Via Teleconference
Committee Member	**Signature**	**Position/Agency**	**Phone Number**	**Email Address**
Berg, Chad		EMC, Georgetown	254-899-5099	Chad.Berg@georgetown.org
Bright, John		EMC, Cedar Park	512-401-5038	John.Bright@cedarparktexas.gov
Dodson, Dan		Sun City Firewise	281-943-9514	dods911@suddenlink.net
Hines, Kari		Texas Forest Service	512-375-0354	khines@tfs.tamu.edu
Kerwood, Scott		Hutto Fire Rescue		sdkerwood@huttofirerescue.org
Ohlenbusch, Paul		Sun City Firewise	512-639-0973	ole77344@suddenlink.net
Strebel, George		Wilco GIS Manager	512-943-1488	gstrebel@wilco.org
Thomas, Jarred		Director of Emergency Management	512-864-8269	jthomas@wilco.org
		Wilco		

Williamson County Community Flood Protection Plan CORE Committee Meeting		WILLIAMSON COUNTY 1848		Kick Off Meeting - March 10, 2017, 10:30 am Williamson County EOC & Via Teleconference
Committee Member	**Signature**	**Position/Agency**	**Phone Number**	**Email Address**
David Zwernemann		Wilco- Engineering	943-3756	dzwernemann@wilco.org
Frank Morton		Wilco GIS	943-1439	fmorton@wilco.org
Ruth Haberman		GM UBCWCID	284-7685	ruth.haberman@upperbrushycreekwcid.org
Jim Cleary		GM LBCWCID	517-7596	JC.LARNO.PE@ATT.NET
Dorothy Miller		RR HSEM	512.218.3259	dmiller@roundrock.texas.gov
Emily Lloyd		Wilco OEM		
Jarrod Thomas		WC OEM		
Consultant Team	**Signature**	**Representing**	**Phone Number**	**Email Address**
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Cynthia Bianco		Tetra Tech	973-452-6494	cynthia.bianco@tetratech.com

September 13, 2017 Core Group Meeting

Williamson County Community Wildfire Protection Plan CORE Committee Meeting		WILLIAMSON COUNTY		September 13, 2017 9:00 AM Williamson County EOC
Committee Member	**Signature**	**Position/Agency**	**Phone Number**	**Email Address**
Isbell, Robert		Fire Chief, Round Rock		risbell@roundrocktexas.gov
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Jones, Kim		Round Rock GIS	512-218-5426	kjones@roundrocktexas.gov
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Kerwood, Scott		Hutto Fire Rescue		sdkerwood@huttofirerescue.org
Kieschnick, David		Sam Bass Volunteer Fire Department		dkieschnick@sambassfd.com
Kiracofe, J		Jollyville Fire Department Chief		jkiracofe@vfd.org
Krueger, Eric				eric krueger@fws.gov
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Long, Cynthia		Commissioner Precinct 2		clong@wilco.org
Madsen, Larry		Commissioner, Precinct 4		larry.madsen@wilco.org
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Moellenberg, M				mmoellenberg@gmail.com
Moeller, Ryan		Williamson County and Cities Health District		rmoeller@wcchd.org
Ohlenbusch, Paul		Sun City Firewise	512-639-0973	ole7734@sudderlink.net
Parker, Scott		Director, Wilco Emergency Communications	512-864-8249	sparker@wilco.org
Pearson, Daniel		USGS	512-927-3500	dpearson@usgs.gov

Williamson County Community Wildfire Protection Plan CORE Committee Meeting		WILLIAMSON COUNTY 1848		September 13, 2017 9:00 AM Williamson County EOC
Committee Member	**Signature**	**Position/Agency**	**Phone Number**	**Email Address**
Porcher, Matt		City of Austin	512-241-9061	matthew.porcher@austintexas.gov
Samuelson, Warren D.		Texas Commission on Environmental Quality		WSamuels@tceq.state.tx.us
Schneider, Cheryl		Wilco Animal Services Director	512-943-3597	cschneider@wilco.org
Schwope, Carl				carl_schwope@fws.gov
Shelton, Robert (Bobby)		Florence Volunteer Fire Department	254-763-2591	rshelton@florencevfd.org
Sneed, John		Wilco Emergency Services Senior Director	512-864-8210	jsneed@wilco.org
Strebel, George		Wilco GIS Manager	512-943-1488	gstrebel@wilco.org
Story, Adam		Cedar Park Fire Chief	512-470-9292	adam.story@cedarparktexas.gov
Sullivan, John		Georgetown		john.sullivan@georgetown.org
Summers, Russell		RM/LISD	512-844-6322	russell.summers@leanderisd.org
Terrill, Cooper		Texas A & M		Cooper.Terrill@ag.tamu.edu
Thompson, Roger		Fire Chief, City of Jarrell	512-746-5333	R.thompson@cityofjarrell.com
Thomas, Jarred		Williamson County Office of Emergency Management		JThomas@wilco.org
Vaughn, Steve		Brazos River Authority	254-761-3136	Steve.Vaughn@brazos.org
Vrable, Steven				srvrabel@peoplepc.com
Watson, Coonie		Williamson County Public Information Officer	512-943-1663	cwatson@wilco.org
Wofford, Michael		Williamson County Hazmat	512-864-8222	mwofford@wilco.org
Woods, B.				bwoods@tfs.tamu.edu
???		Bartlett Volunteer Fire Department		bartlettvfd@sbcglobal.net;
??? KEITH VAUGHN		CEDAR PARK		[redacted]

Appendix B.

Wildfire Mitigation Actions Catalog

CATALOG OF WILDFIRE MITIGATION ACTIONS/PROJECTS

Wildfire hazard mitigation is defined as actions taken to lessen or reduce the effects of wildfire on the structure or area being protected. Mitigation does not guarantee that a wildfire will not affect a structure or area, only that an effort has been made to reduce the severity and intensity of the fire so that the area being protected will be able to survive the fire.

The following wildfire mitigation projects are a compilation of some of the best practices as well as successfully implemented projects in various communities. These projects have been developed as part of community assessments, public comments, interviews with local fire and emergency officials, etc.

This catalog is intended to provide ideas on a range of wildfire mitigation activities that might be appropriate for your community or fire district. This list is **not intended to be complete** but rather to stimulate thoughts and ideas. Finally, the list is divided into generalized subject areas. One action may fall under multiple action headings.

- **Map and Assess Vulnerability to Wildfire**
  - The first step in local planning is to identify wildfire hazard areas and assess overall community vulnerability. Potential actions include:
    - Using GIS mapping of wildfire hazard areas to facilitate analysis and planning decisions through comparison with zoning, development, infrastructure, etc.
    - Developing and maintaining a database to track community vulnerability to wildfire.
    - Creating a wildfire scenario to estimate potential loss of life and injuries, the types of potential damage, and existing vulnerabilities within a community to develop wildfire mitigation priorities
    - Incorporate, maintain, and update Williamson County's Wildland-Urban Interface Risk Assessment GIS data elements.
    - Incorporate structural vulnerability assessments developed at the community level into the Williamson County Wildland-Urban Interface Risk Assessments.
    - Obtain LiDAR data for high risk areas to enhance the County's Wildland-Urban Interface Risk Assessment.

- **Hazardous Fuels Reduction Projects**
  - Based on information documented in the Williamson County Community Wildfire Protection Plan prioritize subdivisions and neighborhoods within the County that

present the highest risks from wildfire and implement education, outreach and mitigation activities within those areas first.

- While any wildfire protection project is important, the realities of funding constraints require priorities to be established among types of projects. Given the information within the CWPP that is specific to our community, the highest priority are:
  - Vegetation management projects where a potential wildfire threatens life, property, agricultural assets, critical infrastructure, and/or emergency ingress/egress routes in and around communities at risk and unincorporated areas of the city.
  - Vegetation management projects where a potential wildfire threatens watersheds, riparian areas, or other sensitive ecosystems; or high-traffic recreation areas.
  - Monitor for spread of Eastern Red Cedars (Juniperus virginiana) into areas where they may present a wildfire threat, as these trees carry fire readily from grassland into developed areas, and often grow prolifically in areas where regular fires do not occur such as adjacent to developments (example from the City of Dallas).

- **Incorporate Wildfire Mitigation in the Comprehensive Plan**
  - Communities/fire departments/fire protection districts can review comprehensive plans to ensure wildfire mitigation has been addressed. The comprehensive plan may include the following:
    - Recognizing the existence of wildfire fuel hazards and identifying areas of risk based on a wildfire vulnerability assessment.
    - Describing policies and recommendation for addressing wildfire risk and discouraging expansion in the wildland-urban interface and intermix.
    - Including considerations of wildfire fuel hazards in land use, public safety, and other elements of the comprehensive plan.

- **Reduce Risk through Land Use Planning**
  - Evaluation of Restrictive Covenants and Ordinances and make revisions as warranted
    - Most organized subdivisions in the county have property owners' regulations, deed restrictions, or covenants that provide direction for homeowners. These regulations generally address structure size and placement, building materials, property usage, livestock, and rights of way, and other topics which are associated with construction aesthetics, safety, health, and sanitation. Develop subdivision regulations which would encourage future developers to design residential communities in

the WUI to be more wildfire prepared. These conservation subdivision regulations may include requirements addressing road widths, turnaround spaces, defensible space and nonflammable construction materials. (ex from Bastrop County)

- Local governments can mitigate future losses by regulating development in wildfire hazard areas through land use planning, including:
  - Coordinating codes and regulations across all jurisdictions within the planning area to accomplish a balance between each respective entity's mission and needed wildfire mitigation
  - Using zoning and/or a special wildfire overlay district to designate high-risk areas and specify the conditions for the use and development of specific areas.
  - Addressing density and quantity of development, as well emergency access, landscaping and water supply.
  - Promoting conservation of open space or wildland-urban boundary zones to separate developed areas from high-hazard areas.
  - Setting guidelines for annexation and service extensions in high-risk areas.
  - Obtain local building codes and weed abatement ordinances for buildings near wooded areas.
  - Review and enhance the County and community building permit process within the wildland-urban interface
  - Review and develop recommendations to the County and Community leadership for revisions to land use regulations, such as: Implementation of fire safety standards within rural residential zoning districts; Distribution of educational materials at the outset of the building permit review process; and Outreach services with neighborhood organizations and special interest groups.

- **Develop a Wildland Urban Interface (WUI) Code**
  - Communities can develop regulations for safer construction and incorporate mitigation considerations into the permitting process. Potential actions include:
    - Developing specific design guidelines and development review procedures for new construction, replacement, relocation, and substantial improvement in wildfire hazard areas.
    - Addressing fire mitigation through access, signage, fire hydrants, water availability, vegetation management, and special building construction standards.
    - Involving fire protection agencies in determining guidelines and standards and in development and site plan review procedures.
    - Establishing wildfire mitigation planning requirements for large scale developments or planned unit developments.

- **Require or Encourage Fire-Resistant Construction Techniques**
  - A local government can encourage fire-resistant construction or may choose to require it through local regulations. Examples include:
    - Encouraging the use of non-combustible materials (i.e., stone, brick, and stucco) for new construction in wildfire hazard areas.
  - Use fire-resistant materials when building, renovating, or retrofitting structures. Avoid using wooden shakes and shingles for roofing.

    - Use only thick, tempered safety glass in large windows and doors.
    - Using fire resistant roofing and building materials in remodels, upgrades, and new construction.
    - Enclosing the foundations of homes and other buildings in wildfire-prone areas, rather than leaving them open and potentially exposing undersides to blown embers or other materials.
    - Prohibiting wooden shingles/wood shake roofs on any new development in areas prone to wildfires.
    - Encouraging the use of functional shutters on windows
    - Install electrical lines underground, if possible.
    - Installation of roof coverings, roof sheathing, roof flashing, roof skylights, roof and attic vents, and roof eaves and gutters that conform to any of the following ignition-resistant construction standards: 1) construction materials are fire-resistant in accordance with nationally recognized testing standards, 2) construction materials are non-combustible, and 3) construction materials constitute an assembly that has a minimum 1- hour-fire resistant rating;
    - Installation of wall components such as the fascia, windows, window glazing, doors, window frames, and insulation that conform to any of the following ignition-resistant construction standards: 1) construction materials are fire-resistant in accordance with nationally cognized testing standards, 2) construction materials are non-combustible, and 3) construction materials constitute an assembly that has a minimum 1- hour-fire resistant rating;
  - Protection of propane tanks or other external fuel sources;
  - Purchase and installation of external, structure-specific water hydration systems (sprinklers), a dedicated power source, and a dedicated cistern if no water source (e.g., lake, river, or swimming pool) is available. FEMA will only consider the project when assurances are provided in the operations and maintenance plan that a GIS system will be maintained to identify property addresses with wildfire sprinkler systems and that this information will be made available to the fire department.

- **Retrofit At-Risk Structures with Ignition-Resistant Materials**
    - Existing structures in wildfire hazard areas can be protected through the use of non-combustible materials and technologies, including:
    - Installing roof coverings, sheathing, flashing, skylights, roof and attic vents, eaves, and gutters that conform to ignition-resistant construction standards. ▪
    - Installing wall components that conform to ignition-resistant construction standards. ▪
    - Protecting propane tanks or other external fuel sources. ▪
    - Purchasing and installing external, structure-specific water hydration systems (sprinklers); dedicated power sources; and dedicated cisterns if no water source (e.g., lake, river, or swimming pool) is available

- **Create Defensible Space Around Structures, Infrastructure and Roadways**
    - Local governments can implement defensible space programs to reduce risk to structures and infrastructure, including
        - Creating buffers around residential and non-residential structures through the removal or reduction of flammable vegetation, including vertical clearance of tree branches.
        - Replacing flammable vegetation with less flammable species.
        - Creating defensible zones around power lines, oil and gas lines, and other infrastructure systems.
        - Create a safety zone to separate home from combustible plants and vegetables.
        - Prune all branches around residence to a height of 8-10 feet.
        - Keep trees adjacent to buildings free of dead or dying wood and moss.
        - Remove all dead limbs, needles, and debris from rain gutters.
        - Mechanical thinning process that uses skid steers, (low-impact machines with a mulching head on the front with teeth). Operators grind up the understory and remove undesirable species growing under the tree canopy. (Bastrop County example)
        - Adopt and Implement the **Home Ignition Program** (HIZ). The program includes the house and its immediate surroundings (within 200 ft.) nor to the property boundary. The vegetation surrounding the home determines the home's susceptibility to ignition during wildfire. To minimize the chance of a home ignition, homeowners should eliminate a wildfire's potential relationship with their house. This can be accomplished by interrupting the natural path a fire takes. HIZ is broken down into 3 zones:
            - **Zone 1: The Foundation—30 feet:** This area should have plants that are low to the ground, green and healthy. Homeowners should avoid large

clumps of plants that can generate high heat. Noncombustible material such as rock or stone should be used instead of mulch around the home's foundation to create a buffer between the grass and foundation. The best choices of trees are deciduous species with wide, broad leaves. Shrubbery and bushes should be placed away from trees and planted in islands or groupings; this prevents fire from climbing through the lower vegetation into the canopy.

- **Zone 2: 30—100 feet:** More plants can be present in this area. Firewood, small brush piles, or stacks of building materials should be moved to this zone or further away. 30 feet spacing between clusters of 2-3 trees should be maintained along with fuel breaks such as, driveways, gravel walkways, and lawns. Trees in this zone need to be pruned to height of 6-10 feet from ground.
- **Zone 3: 100—200 feet:** Trees in this zone should be thinned to eliminate overlapping canopies, although less space is required than in zone 2. Smaller confers growing between taller trees should be removed along with heavy accumulations of woody debris.

- **Conduct Maintenance to Reduce Risk**
  - The debris or slash created from fuel reduction activities will create an increase fire risk and must be eliminated throughout the duration of the treatment. Debris reduction methods include:
    - Physical removal of all debris or slash from the treatment site
    - Chip all slash on site and leave the remaining chips in piles not to exceed 6-feet in diameter and 3-feet in height;
    - Chip all slash on site and leave the remaining chips in contour rows not to exceed 1 foot wide and 1 foot in height
  - Implement a Weed Abatement program that will be incorporated into the CWPP document. This program will address fuel reduction and include standards applied to all weeds, grass, or other vegetation that is normally dry during the year, as well as combustible rubbish.
  - Local governments can implement maintenance procedures to reduce wildfire risk, including
    - Performing arson prevention cleanup activities in areas of abandoned or collapsed structures, accumulated trash or debris, and with a history of storing flammable materials where spills or dumping may have occurred.
    - Preventing or alleviating wildfires by proper maintenance and separation of power lines as well as efficient response to fallen power lines.

        - Routinely inspecting the functionality of fire hydrants.
        - Requiring and maintaining safe access for fire apparatus to wildland-urban interface neighborhoods and properties.
        - Store combustible/flammable materials in approved safety containers and keep away from home.
        - Keep chimney clean.

- **Implement a Fuels Management Program**
    - Utilize the Williamson County Wildland-Urban Interface Risk Assessment as a tool for prioritizing proposed fuel reduction projects.
    - Continue proactive fuels mitigation through all management techniques, including prescribed burning where smoke can be effectively managed to allow for maintenance of ecosystem function and to reduce fire hazard.
    - A fuels management program may be implemented to reduce hazardous vegetative fuels on public lands, near essential infrastructure, or on private lands by working with landowners. The program can include the following:
        - Performing maintenance including fuel management techniques such as pruning and clearing dead vegetation, selective logging, cutting high grass, planting fire-resistant vegetation, and creating fuel/fire breaks (i.e., areas where the spread of wildfires will be slowed or stopped by the removal of fuels).
        - Using prescribed burning to reduce fuel loads that threaten public safety and property.
        - Identifying and clearing fuel loads created by downed trees.
        - Cutting firebreaks into public wooded areas in the wildland-urban interface.
        - Sponsoring local "slash and clean-up days" to reduce fuel loads along the wildland-urban interface.
        - Encourage volunteer groups to conduct maintenance activities for vulnerable needs homeowners.
        - Linking wildfire safety with environmental protection strategies (i.e., improving forest ecology, wildlife habitat, etc.).
        - Developing a vegetation management plan.
        - Facilitate a limbing and chipping program to assist the community.

- **Participate in Firewise Program**
    - Implement Firewise principles to safeguard homes and "Ready, Set, Go!"
    - principles to prepare for fire and evacuation;
    - The Firewise program provides a series of steps that individual residents and their neighbors can take to keep their homes and neighborhoods safer from fire. Consider actions such as:

- Joining the "Firewise Communities/USA" recognition program sponsored by the National Wildlife Coordinating Group (firewise.org).
- Sponsoring Firewise workshops for local officials, developers, civic groups, and neighborhood/homeowners' associations.
- Consulting Firewise guidance and encouraging or requiring best practices in your community.

- **Increase Wildfire Risk Awareness**
  - Develop and implement focused community meetings, programs, and wildfire safety education efforts directed at structure and property owners in the WUI areas. Focus of topics will include:
    - Prevention of accidental starts
    - Creation and maintenance of defensible space
    - Fire-safe landscaping
    - Reduction of structural ignitability, and
    - Strategies for safety in a wildfire incident
  - With rapid population growth into Wildland Urban Interface areas and trends showing an increasing frequency of elevated fire weather conditions, wildfire will continue to be a major concern moving forward. Creating heightened awareness of wildfire risk issues and working with communities to develop sound prevention and mitigation strategies are becoming increasingly important to ensure safety. The Texas Wildfire Risk Assessment Portal is an electronic web based resource to help address this growing concern.
    - Promote and property owners to log into the TxWRAP Portal to understand their need to identify wildfire threats for a particular area based on landscape characteristics, historical fire occurrence, weather conditions, terrain and potential fire behavior. Using the Public Viewer - Users can zoom to any place in Texas to ask "What's Your Risk?" They will be able to find their risk level within a two-mile radius, plus information on how to reduce their risk.
  - Education and outreach programs can target citizens, businesses, developers, landscapers, and insurers among others to increase awareness of wildfire risk and strategies for protecting homes and infrastructure. Consider actions such as:
    - Offering GIS hazard mapping online for residents, developers, and design professionals.
    - Organizing a local fire department tour to show local elected officials and planners the most vulnerable areas of the community's wildland-urban interface and increase their understanding of risks.
    - Working with insurance companies, utility providers, and others to include wildfire safety information in materials provided to area residents.

        - Developing partnerships with neighborhood groups, homeowners' associations, and others to conduct outreach activities.
        - Using local fire departments to conduct education programs in schools.
        - Informing the public about proper evacuation procedures.
        - Forming a citizen plan implementation steering committee to monitor progress of local mitigation actions. Include a mix of representatives from neighborhoods, local businesses, and local government.

- **Educate Property Owners about Wildfire Mitigation Techniques**
    - Raise property owner's awareness of and creating incentives for growth planning and management that reduces, rather than increases, fire-prone development;
    - Raise property owner's awareness of proper spacing, sequencing, and maintaining fuel treatments across the landscape;
    - Educate property owners on actions that they can take to reduce risk to property, such as the following:
        - Installing fire mitigation systems such as interior and exterior sprinkler systems.
        - Performing safe disposal of yard and household waste rather than open burning.
        - Removing dead or dry leaves, needles, twigs, and combustibles from roofs, decks, eaves, porches, and yards.
        - Creating a defensible space or buffer zone cleared of combustible materials
        - Develop and coordinate a seasonal outreach campaign that promotes effective risk reduction practices in the wildland/urban interface around property.
        - Educate homeowners and conduct a defensible space inspection with recommendations for fuels reduction for all interested homeowners in the community.
        - Implementation of defensible space on all homes is necessary if a Protect in Place strategy is used.
        - Installing and maintaining smoke detectors and fire extinguishers on each floor of their homes or other buildings.
        - Safely using and storing necessary flammable materials, including machine fuels. Approved safety cans should be used for storing gasoline, oily rags, and other flammable materials. Firewood should be stacked at least 100 feet away and uphill from homes.
        - Keeping flammables, such as curtains, secured away from windows or using heavy fire-resistant drapes.

        - Utilize neighborhood public meetings to determine common mitigation requirements for the community.
        - Facilitate neighborhood fuels reduction projects through:
            - Cost share grants,
            - Utilization of BLM fire mitigation specialist,
            - It is often possible to obtain discounts for volume efforts.
- **Educate Property Owners**
    - Educate individual property owners, residents and visitors on roles and responsibilities in and in preparation re emergency event:
        - Techniques to increase individual's knowledge about the emergency warning signals and alert notifications used in their community.
        - Instruct family members how to shut off water, gas and electricity to your house.
        - Make the necessary property preparations to reduce the damage from the hazard.
        - Acquire a backup generator in case of a prolonged power failure.
        - Check into insurance (property, health, life, and hazard type).
        - Make the necessary financial arrangements in case of a sudden evacuation and power outage that shuts down local ATMs and banks.
        - Organize important documents and records and store them in a portable lock box or safe-deposit box.
        - Perform home inventory videotaping and store tape in a portable lock box or safe-deposit box.
        - Develop an Emergency Communication Plan with evacuation plan and ask an out-of-state person to serve as the "family contact".
        - Assemble a shelter-in-place Emergency Supplies Kit.
        - Assemble a mobile Emergency Supplies Kit that can serve as a "grab and go" bag?
        - Get a family member trained in first aid and CPR.
        - Make the necessary preparations and arrangements for pets, seniors, and the disabled.
        - Develop, implement and practice emergency plans within family member's employment building, school, day care center, or nursing home.
        - Learn and teach safe fire practices - build fires away from nearby trees or bushes, always have a way to extinguish a fire, never leave a fire unattended.
        - Avoid open burning, especially during dry season Install smoke detectors on every level of your home.
        - Designating internal safety zones or areas of temporary refuge.

- **Funding for Wildfire Mitigation Activities**
  - Create and maintain the Williamson County CWPP Advisory Committee to oversee implementation, identify and coordinate funding opportunities, and sustain the Williamson County Community Wildfire Protection Plan
  - Implement cost-share programs or tax incentives to assist landowners with hazardous fuels removal and disposal.

- **Miscellaneous Wildfire Activities**
  - Enhance collaboration, training, and capacity building across agencies to increase firefighter safety, wildfire response, and management effectiveness.
  - Develop formal agreements with municipalities and special districts for fire response and management.
  - Establish and exercise a consistent communication strategy among intergovernmental partners using appropriate conduits and delivery mechanisms
  - Complete rural addressing data collection project for county.
  - Create and maintain a website to promote Williamson County's Community Wildfire Protection Plan.
  - Collaborate with homeowner insurance companies to promote incentives that reward structural ignition risk reduction and fuels reduction activities in the wildland-urban interface.
  - Developing adequate local fire suppression capacity to meet community protection needs.

GLOSSARY OF TERMS

ACRONYMS

°F	Degrees Fahrenheit
BLM	Bureau of Land Management
CPZ	Community Protection Zone
CWPP	Community Wildfire Protection Plan
FEMA	Federal Emergency Management Agency
HFI	Healthy Forests Initiative
HFRA	Healthy Forests Restoration Act
NFS	National Forest System
TFS	Texas A&M Forest Service
TWPP	Texas Wildfire Protection Plan
TxWRAP	Texas Wildfire Risk Assessment Portal
VRI	Values Response Index
WFSI	Wildland Fire Susceptibility Index
WHP	Wildfire Hazard Potential
WUI	Wildland Urban Interface

DEFINITIONS

Brush - Shrubs and scrub vegetation or other vegetative growth heavier than grass but not a full tree size.

Characteristic Flame Length - Represents the distance between the tip and base of the flame

Combustible - Any material that, in the form in which it occurs or is used, and under the conditions anticipated, will ignite and burn.

Community Protection Zones - Represents those areas designated as primary and secondary priorities for community protection planning.

Defensible Space - A natural or man-made area, where vegetation capable of carrying a fire has been sufficiently treated, modified, or removed to slow the rate of spread and reduce the intensity of a fire; provide a safe area for fire suppression operations; and slow or prevent a fire from traveling – in either direction – between a structure and the vegetation.

Fire Break – An area, usually a long strip of undetermined width, wherein all flammable fuels have been removed to the mineral soil layer for the purpose of stopping a fire's spread.

Fuel Break - An area, usually a long strip strategically located, wherein vegetative fuels are reduced in volume and maintained to cause a reduction of fire intensity if ignited by a wildland fire.

Fire Type – Extreme - Represents the potential fire type (surface or canopy) under the extreme percentile weather category

Surface Fuels - Contains the parameters needed to compute surface fire behavior characteristics

Thinning - The use of chainsaws and manpower to remove fuels from the prescribed area. Hand thinning has a low impact on soils, erosion and accidental removal of vegetation not involved in the prescription. This type of treatment is often used in steep terrain, valuable or fragile ecosystems.

National Cohesive Strategy – A collaborative process with active involvement of all levels of government and non-governmental organizations, as well as the public, to seek national, all-lands solutions to wildland fire management issues.

Pine Plantations - Pine stands that are planted and actively managed for financial gain or other economic reasons

Pine Plantation Index - Represents a rating of the potential impact of a wildfire on pine plantations

Prescription – A detailed plan that reduces the threat of wildfire in a specified area. Prescriptions may include mechanical thinning, prescribed burn, lop and scatter, fuel breaks, pile burning, chipping, etc.

Prescribed Burning - A type of prescription to reintroduce fire as a natural means of fuel reduction and creating a fire resilient landscape.

Values Response Index - Represents a rating of the potential impact of a wildfire on values and assets

Vegetation - General vegetation and landcover types

Wildland - An undeveloped area in its natural state containing vegetation characteristic of the region and undisturbed topographical conditions.

Wildland Urban Interface - Depicts where humans and their structures meet or intermix with wildland fuel.

WUI Response Index - Represents a rating of the potential impact of a wildfire on people and their homes

Wildfire - An unplanned and unwanted fire requiring suppressive action; an uncontrolled fire, usually spreading through vegetative fuels but often threatening structures.

Wildfire Hazard - The condition of the natural and built environment creating a wildfire opportunity that is so adverse to past, current, or foreseeable construction or land use as to constitute a significant hazard to public health, safety or property. The term incorporates the combined effects of slope, aspect, topography, climatic conditions, weather, wildfire behavior, existing vegetation, and state of the vegetation, and may also incorporate additional factors such as evacuation conditions, density of structures, history of fire occurrence, and local emergency service availability.

Wildfire Threat - Likelihood of a wildfire occurring or burning into an area.

Wildfire Ignition Density –Likelihood of a wildfire starting based on historical ignition patterns.

Wildfire Mitigation Plan - A plan prepared by a professional forester that describes the current condition of the subject site and the proposed management activities to be conducted by the applicant. The plan shall describe how these activities reduce wildfire hazard levels

Commissioners Court - Regular Session **27.**

Meeting Date: 12/11/2018

Assistant County Attorney

Submitted By: Shannon Francis, County Attorney

Department: County Attorney

Agenda Category: Regular Agenda Items

Information

Agenda Item

Discuss, consider, and take appropriate action regarding termination of the Access Agreement between the WIlliamson County Sheriff's Office and Hit + Run Creative, Inc.

Background

The Williamson County Sheriff's Office seeks to terminate the Hit + Run Creative, Inc. access agreement previously signed by Williamson County and the Williamson County Sheriff on 06/27/2017 and 07/05/2017 respectively. The agreement provides for termination without cause by either party upon ten (10) days written notice to the other party. Included is a proposed termination notice letter to be signed and delivered to the other party by the County Attorney's Office.

Fiscal Impact

From/To	Acct No.	Description	Amount

Attachments

agreement

termination notice letter

Form Review

Inbox	Reviewed By	Date
County Judge Exec Asst.	Wendy Coco	12/06/2018 11:51 AM
Form Started By: Shannon Francis		Started On: 12/06/2018 10:47 AM
Final Approval Date: 12/06/2018		

HIT + RUN CREATIVE INC.
98 CUTTER MILL ROAD, SUITE 299N
GREAT NECK, NY 11021

Date: As of 6/27/17

Sheriff Robert Chody
Williamson County Sheriff
508 S. Rock Street
Georgetown, TX 78626

Attn: Sheriff Chody

Re: Williamson County Sheriff Access Agreement

Dear Sheriff Chody,

This letter agreement ("Agreement") sets forth the terms and conditions between Hit + Run Creative, Inc. ("Producer") and Williamson County Sheriff's Office and the Williamson County Sheriff (the "Department"), in connection with the filming and recording by Producer of the audiovisual production tentatively known as "UNTITLED DEVELOPMENT PROJECT" (the "Program") in and around Williamson County, Texas. In consideration of the promises and covenants set forth in this Agreement, the parties agree as follows:

1. Term. The term of this Agreement shall commence upon the date set forth above and shall continue for a period of two (2) years (the "Term"). Upon the mutual agreement of the Department and Producer, the Term of this Agreement may be extended for one (1) additional one (1) year period. This Agreement may be terminated without cause by either party upon ten (10) days written notice to the other party.

2. Access.

a. The Department hereby grants and shall facilitate Producer's access to the Department generally, including, without limitation, access to the Department premises and/or locations owned and/or controlled by the Department so that Producer may film and record for the Program during the Term. Furthermore, the Department grants Producer access to Department officers, personnel, employees and agents (collectively, the "Personnel") necessary for the Program during the Term and any extension thereof. Access to the premises and to personnel are restricted to those times necessary and prearranged with the Department. Department retains the right to suspend the grant of rights to enter the premises ("suspension") at any time, without notice, where emergency, operational requirements or concerns, acts of God, natural disasters, terrorists alerts, civil disorders and/or other Department operational concerns or requirements cause a suspension. The Department shall authorize Personnel to allow video and audio recording during production in all circumstances and locations related to the Program as Producer may reasonably require to capture and document the Department and its Personnel in the context of the Program. For the avoidance of doubt, as further specified in paragraph 4 below, in no event shall any such termination or suspension limit or restrict Producer's right to continue to exploit any Footage, Program Materials and/or Department Images (as all such terms are defined below) captured prior to such termination or suspension, except as indicated in paragraph 5 a. and b. below.

3. Producer's Obligations.

a. Producer shall be responsible for obtaining all necessary consents including the written consent of Department Personnel featured in the Program (which Department shall use good faith efforts to assist Producer in obtaining), and such consent by the Personnel is hereby expressly authorized by the Department.

b. Producer shall maintain in full force and effect insurance coverage required for performing production services on a project of this nature (including Comprehensive General Liability Insurance, Workers Compensation Insurance) in amounts acceptable to the Department (see attached Exhibit A for insurance requirements and acceptable minimum amounts). Williamson County, the Williamson County Sheriff and the Department shall be named as additional insureds solely on Producer's General Liability insurance policy and copies of an insurance certificate showing current, in-effect insurance coverage described herein shall be furnished to Department prior to commencement of any activities under this Agreement. The certificate of insurance shall further provide that it will not be cancelled or modified during the Term of this Agreement without thirty (30) days prior written notice to Department.

4. Rights.

a. Producer intends to (i) produce footage concerning the Department and its Personnel at work, and (ii) capture any and all footage of the Department, Department Personnel and Department operations to produce the Program. The Department hereby agrees and consents (subject to any restrictions and limitations of this Agreement), and shall authorize the Department Personnel to agree and consent, to the filming and recording of the Department, the Department Personnel and the Department Personnel's voices and likenesses (all of the foregoing, the "Footage") and the use of the Footage in whole or in part. The Department irrevocably grants to Producer, and shall authorize Department Personnel to grant to Producer all rights and consent or waive the same so as to permit the fullest use of the Footage or any part(s) thereof in all media, worldwide, in perpetuity subject to any restrictions of this Agreement. The Department agrees, and shall authorize the Department Personnel to agree that the Footage, the Department Personnel likeness(es), photograph(s) and biographical material about the Department and Department Personnel may be used for promotional purposes relating to the Program. For the avoidance of doubt, notwithstanding the suspension, expiration or termination of this Agreement for any reason whatsoever, Producer's rights in and to the Footage as set forth herein, and the Network's right to exploit the Footage and/or Program, shall survive the expiration, suspension or earlier termination of this Agreement.

b. The Department agrees that, as between the Department and Producer, Producer shall own all right, title and interest in and to the Program and all elements thereof and relating thereto (collectively the "Material"), and the Material will be solely created by the undersigned as a "work made for hire" for Producer for use as part of an audio/visual work within the meaning of U.S. Copyright Law, with Producer being deemed the sole author, and, at all stages of completion, the sole and exclusive owner, of the Material and of all rights of every kind or nature, whether now known or hereafter devised (including, without limitation, all copyrights and all extensions and renewals of

copyrights) in and to the Material in perpetuity and throughout the universe and in all languages, with the right to use, exploit and advertise the Material and the Program, in any form, matter and media, whether now known or hereafter devised, without any obligation whatsoever, other than as described in this Agreement, to the undersigned or any person or entity claiming through or on behalf of the undersigned.

If, under any applicable law, the fact that the Material is a "work made for hire" is not effective to place authorship and ownership of the Material and the Program and all rights therein in Producer, or in the event that it is determined that the Material or any part thereof does not constitute a "work make for hire" for Producer within the meaning of the copyright laws of the United States, then to the fullest extent allowable and for the full term of protection otherwise accorded to the undersigned under such applicable law, the undersigned hereby assigns to Producer irrevocably, exclusively and perpetually all rights of every kind in and to the Material throughout the universe and any and all of the undersigned's right, title and interest in the Program and any other works now or hereafter created containing the Material.

c. The Department grants Producer the right to use the Department's proprietary intellectual property, names, trademark(s), logos or trade names as well the names and images of the Department (collectively, the "Department Images") in and in connection with the Program, as Producer may determine in its sole discretion. For the avoidance of doubt, Producer shall have the right to use or refer to Department Images visually and/or in dialogue as Producer shall determine in its sole discretion.

d. As between the Department and Producer, the parties acknowledge and agree that any and all audio and visual recordings, the Footage, the Material and any element of the Program (all of the foregoing, the "Program Materials") shall be the sole and exclusive property of Producer at all times. The Department hereby acknowledges and agrees that Producer is the sole owner of the Program Materials and at no time, past, present or future, shall the Department have an interest in, ownership of and/or access to the Program Materials.

5. Department Review.

a. The Department shall have the right to review a near final version of the applicable episode(s) in which the Department is featured (each, an "Episode") of the Program to verify (i) the factual accuracy of the investigation contained in the Footage included in the applicable Episode (if any), and (ii) that the Footage is not intentionally obscene or defamatory (as defined under state and/or federal laws) to the Department, the Williamson County Sheriff or Williamson County. Producer shall arrange for Sheriff Chody or a designee (the "Representative") to screen a copy of the applicable Episode solely for the purposes indicated herein. Due to very tight production schedules in connection with the Program and other exigencies of production, the Department agrees to return any comments to Producer within five (5) business days of Producer's delivery to Representative of the applicable Episode (extendable to seven [7] business days with prior written notice to Producer in the event of Department operation exigency) (the "Review Period"). If Producer does not receive comments within the Review Period, the Footage in such Episode shall be deemed approved. If the Representative provides timely comments pursuant to this paragraph, Producer shall meaningfully

consult with the Department and make good faith efforts to depict the investigation accurately. Notwithstanding the foregoing, as between Producer and the Department, Producer shall have the absolute discretion to determine the editorial content of the Program and each episode thereof including, but not limited to, tone, theme, featured events and story line.

b. Producer hereby acknowledges that the Program shall not (i) be intentionally obscene or defamatory (as defined under state and/or federal laws) to the Department, the Williamson County Sheriff or Williamson County ("Defamatory Content"), or (ii) contain any confidential, non-public investigatory, procedural and/or operational information concerning the Department which could impair the integrity of an investigation, such as the identity of a confidential informant ("Confidential Information") and upon written notification during the Review Period as set forth in paragraph 5(a) by the Representative of the inclusion of such Defamatory Content or Confidential Information, Producer shall address any such issues of which it has been made aware and delete, obscure or otherwise edit the Confidential Information or Defamatory Content, if any. If Representative does not comment on or make note of the inclusion of any Defamatory Content or Confidential Information during the Review Period, then the inclusion of all information as contained in the applicable Episode shall be deemed approved; provided however, upon notice from the Department after the Review Period of Confidential Information or Defamatory Content overlooked or not communicated to the Producer due to time constraints or other factors, solely in the event that Producer or Producer's assigns have not yet delivered the applicable materials to the Network, Producer or Producer's assigns will delete or edit such footage to delete or obscure the Confidential Information or Defamatory Content. For clarity, if the Review Period has lapsed and delivery to Network of the applicable materials has occurred, Department shall have no right to require Producer or Producer's assigns to make any additional changes or modifications to the footage and Producer and Network shall have the right to continue to exploit any Footage, Program Materials and/or Department Images as contemplated herein.

6. Exclusivity. The Department hereby confirms and agrees that during the Term of this Agreement (or any extension thereof, as applicable) and, in the event the Program is "set up" with a Network, for the length of any agreement with the Network, the Department will not (i) enter into an agreement with another media company similar to this Agreement, or (ii) become involved with or extend the same level of cooperation with another media company, in connection with and for the filming of an observational documentary program or other audiovisual work that is similar in theme, style or subject matter of the Program. Department also agrees that it has not entered into any deals for television, digital or new media projects as of the date of this Agreement that are similar in concept and/or format to the Program. Notwithstanding the foregoing, nothing contained herein shall prevent the Department from participating in other types of television programs (e.g., news programs, including local news features) that are different in theme, style or subject matter to the Program; provided, however, that the Department's participation in any such other program shall not act as a "spoiler" for the Program.

7. Representations and Warranties. The Department represents and warrants: (i) it has the right, power and authority to grant the access rights described in this Agreement and to fulfill its obligations and grant the rights hereunder (including without limitation the right to use and exploit the Footage and Program Materials as contemplated herein); (ii) there is no contract with any other person, firm,

corporation or entity which will in any way interfere with the rights granted to Producer hereunder or with the performance of the Department's obligations under this Agreement; (iii) the Department has obtained the consent and approval of Williamson County through its County Judge and Commissioners Court (collectively, "Williamson County") to grant the rights contained in this Agreement; and (iv) there are no additional permissions necessary for the Department to be able to grant the access rights and other rights described in this Agreement.

8. Miscellaneous.

a. Producer shall be under no obligation to actually use the Footage in any manner.

b. The parties expressly agree that the relationship between them under this Agreement is that of two principals dealing with each other as independent entities subject to the terms and conditions of this Agreement, and that Producer is an independent journalist. At no time, past, present or future, shall the relationship of the parties be deemed, nor is it intended, to constitute an agency, partnership, joint venture, or collaboration for any reason whatsoever. Neither party shall have the right, power or authority at any time to act on behalf of, bind or represent the other party.

c. The Department and Williamson County acknowledge and agree that Producer is expending monies in reliance of this Agreement and in the event of a breach by Producer, the damage, if any, caused thereby will not be irreparable or otherwise sufficient to entitle the Department and/or Williamson County to injunctive or other equitable relief; the Department's and/or Williamson County's remedy in such case being strictly limited to the right to recover damages, if any, in an action at law.

d. Producer shall at all times indemnify and hold the Department, the Williamson County Sheriff and Williamson County harmless from and against any and all claims, damages, liabilities, costs and expenses, including reasonable outside attorney's fees (collectively, "Claims"), "), arising out of any actions or omissions of Producer or its employees or agents, or arising out of any material breach of any of Producer's obligations contained herein and in connection with the development, production and/or exploitation of the Program; provided, however, that the foregoing defense and indemnification shall not apply to any Claims arising out of or resulting from: (i) any breach of any of the Department's representations, warranties or agreements herein; or (ii) malfeasance and/or gross negligence and/or other intentional tortious acts or omissions committed by the Department and/or any of the Department's respective agents, employees, guests or invitees.

e. The Department shall not at any time issue, authorize or participate in any news story, magazine article or other publicity or information of any kind relating to the Program, or Producer or disclose any confidential information of Producer's without Producer's written consent in each instance. Notwithstanding the foregoing and for the avoidance of doubt, this paragraph shall not prevent the Department from releasing to the press and/or local news any information regarding a case that is featured in or relates to the Program. Except for disclosure by Producer to a third party broadcaster and in connection with the exploitation of the Program, the parties agree that this Agreement is confidential and that they may not disclose the contents to any third party apart from their professional advisors or as may be required by law.

f. Producer may assign any and all rights granted under this Agreement including, without limitation, to the Network.

g. This Agreement represents a complete and binding contract between the parties hereto, superseding any prior agreements, negotiations or understandings (written or oral) between them and may not be amended or otherwise changed expect by a written instrument signed by both Producer and the Department. The rights granted herein shall inure to the benefit of Producer, its licensees, successors and assigns. This Agreement is subject to and shall be governed by and construed in accordance with the laws of the State of Texas.

If the foregoing conforms to your understanding of the Agreement, please sign in the space provided below. Upon full execution thereof, this Agreement shall be binding.

AGREED AND ACCEPTED:

HIT + RUN CREATIVE INC

By: _____

Its: Owner

Date: 6/22/17

Williamson County Sheriff's Office

By: _____

Its: Sheriff
An authorized signatory

Date: 7-5-17

Williamson County

By: Valerie Covey

Its: Commissioner Pct 3
An authorized signatory

Date: 6/27/17

HIT + RUN CREATIVE INC.
98 CUTTER MILL ROAD, SUITE 299N
GREAT NECK, NY 11021

EXHIBIT A

INSURANCE REQUIREMENTS

Producer shall provide and maintain the minimum insurance coverage in the minimum amounts as described below. Coverage shall be written on an occurrence basis by companies authorized and admitted to do business in the State of Texas and rated A- or better by A.M Best Company, or otherwise acceptable to Department, and name Department, the Williamson County Sheriff and Williamson County as additional insureds. The policies shall provide that they may not be cancelled or altered without at least thirty (30) days' prior written notice to The County.

Type of Coverage **Limits of Liability**

Comprehensive general liability including completed operations and contractual liability insurance for bodily injury, death, or property damages in the following minimum amounts:

COVERAGE	**Per Person**	**Per Occurrence**
Comprehensive General Liability	$1,000,000	$1,000,000

Aggregate policy limits: $2,000,000

General Counsel
Jason Nassour
First Assistant
Brandon Dakroub
Criminal Division Chief
Stephanie Greger
Civil Division Chief
Shannon C. Francis
Director Juvenile Division
Michael Cox

DEE HOBBS
COUNTY ATTORNEY

405 M.L.K. Street #7
Georgetown, Texas 78626

Office Administrator
Stephanie Lloyd
Chief of Staff
Peggy Vasquez
Chief Investigator
Rudy Gonzalez
Evidence Director
Michael Etheridge
Victim Services Director
Sara Bill

Phone (512) 943-1111 • Fax (512) 943-1120

December 6, 2018

Via Certified Mail, Return Receipt Requested
(7012 3460 0001 7475 1930)
Hit + Run Creative, Inc.
98 Cutter Mill Road, Suite 299N
Great Neck, NY 11021

RE: Notice of Termination regarding Williamson County Sheriff Access Agreement with Hit + Run Creative, Inc.

To whom it may concern:

Williamson County and Robert Chody, the Williamson County Sheriff, have elected to terminate the attached Access Agreement pursuant to paragraph #1 titled "Term." Please accept this letter as the requisite ten (10) day written notice of termination.

Thank you for your attention to this matter. If you should have any questions or comments, please do not hesitate to contact me.

Very truly yours,

Shannon C. Francis
Civil Division Chief

Enc.

Commissioners Court - Regular Session **28.**

Meeting Date: 12/11/2018

Amendment to Aramark Food Service Contract for County Sheriff

Submitted For: Robert Chody **Submitted By:** Starla Hall, Sheriff

Department: Sheriff

Agenda Category: Regular Agenda Items

Information

Agenda Item

Discuss, consider and take any appropriate action regarding Amendment No. 1 to contract between Aramark Correctional Services, LLC and Williamson County to authorize slight price increase and provide jail inmate food service pursuant to Tex. Loc. Gov't Code 262.024 (a)(8) and 351.001.

Background

Original contract was approved on August 1, 2016. The amendment includes the following:
* 5 cent per meal increase from .91 to .96 cents per meal
* All equipment maintenance costs, including preventative maintenance costs, shall be borne the Vendor
* Vendor agrees to provide meal service to inmates and County Officers at the reduced price since corrections staff cannot leave the facility for meals.

Fiscal Impact

From/To	Acct No.	Description	Amount

Attachments

Aramark Contract Amendment

Aramark original contract 8-1-16

Form Review

Inbox	Reviewed By	Date
Hal Hawes	Hal Hawes	12/04/2018 02:59 PM
County Judge Exec Asst.	Wendy Coco	12/05/2018 10:15 AM
Form Started By: Starla Hall		Started On: 12/03/2018 04:31 PM
Final Approval Date: 12/05/2018		

Amendment No. 1
Jail Inmate Food Service Contract for the Williamson County Jail Facility

THIS AMENDMENT NO. 1 (the "Amendment"), is entered into this ____ day of ____, 2018 by and between the **County of Williamson, Texas** ("County"), and **Aramark Correctional Services, LLC,** ("Aramark") a Delaware limited liability company, having its principal place of business located at the Aramark Tower, 1101 Market Street, Philadelphia, PA 19107 ("Aramark").

WHEREAS, on August 1, 2016, the parties entered into an Operating Agreement for the management of the food service operation at the Williamson County Jail, (as amended, the "Agreement");

WHEREAS, the parties acknowledge the need to address volatility in the cost of food commodities; and

WHEREAS, the parties desire to amend said Agreement as hereinafter set forth, effective as of _____, 2018.

NOW, THEREFORE, in consideration of the foregoing and of the mutual promises in the Agreement and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties agree as set forth below. Capitalized terms used but not defined in this Amendment have the meanings ascribed to such terms in the Agreement.

1. **Pricing:** The Parties agree that Paragraph 9 shall be deleted in its entirety and replaced with the following:

County agrees to pay Vendor on a unit cost of per meal per inmate and County Correction Officer ("County Officer") fed as follows:

1. Per Person, Per **Regular Meal** (breakfast, lunch and dinner), Per Day – Meals Prepared in Jail Kitchen: $0.96; and

2. 2. Per Person, Per Dietary Snack – Snacks Prepared in Jail Kitchen: $0.50.

2. **Maintenance:** The Parties agree that Paragraph 29 shall be amended and deleted in its entirety with the following:

All equipment maintenance costs, including preventative maintenance costs, shall be borne the Vendor.

3. **Meal Service:** The Parties agree that paragraph 25 shall be amended and deleted in its entirety with the following:

Vendor agrees to provide meal service to inmates and Williamson County Jail Employees who cannot leave their assigned post during meal times at the agreed upon price as stated in Paragraph 9.

4. Effect of Amendment: Except as specifically set forth herein, all other terms and provisions of the Agreement shall remain unaffected by this Amendment and shall continue in full force and effect.

IN WITNESS WHEREOF, the parties hereto have caused this Amendment No. 1 to be signed by their duly authorized representatives the day and year first written above.

Aramark Correctional Services, LLC

By: _____
Mark R. Adams
Vice President, Finance

County of Williams
State of Texas

By: _____

Document Number: 426529

JAIL INMATE FOOD SERVICE CONTRACT FOR THE WILLIAMSON COUNTY JAIL FACILITY

This Jail Inmate Food Service Contract for the Williamson County Jail (the "Contract") is between the vendor identified and set forth on the signature page below, hereinafter referred to as "Vendor" and Williamson County, Texas (the "County").

1. Vendor agrees to furnish all labor, equipment supplies and foodstuffs, except as provided herein, and to provide full food service for inmates of the Williamson County Jail (the "Jail").

2. Vendor agrees to serve tasty, appetizing, wholesome quality food and to use a minimum twenty-one (21) day non-repetitive meal plan, including special menus for holidays and for medical reasons. All menus must be reviewed and approved by a bona fide registered dietician, to meet or exceed the dietary standards for adult inmates as required by all applicable statutes.

3. Vendor agrees to serve foodstuff at the proper temperatures for safe food service. Vendor further agrees to maintain foodstuff at the proper temperatures from the time the foodstuff is prepared until the actual time that the foodstuff is delivered to the inmate units.

4. Vendor agrees to provide meals to the inmates three (3) times per day, seven (7) days per week. Breakfast shall be served at 5:30 am, lunch shall be served at 11:30 am and dinner shall be served at 5:30 pm. Sack lunches will frequently be requested. The County reserves the right to change meal times at County's discretion. Vendor further agrees that the respective serving times represent the actual time of delivery to the inmates for consumption.

5. Except as otherwise set out herein, food for the Jail inmates shall be prepared in the Jail kitchen facility. During the term of the Contract, County intends to construct improvements to the Jail facility and such improvements will be made to the Jail kitchen during the construction. The Vendor must provide a provision for the preparation of meals outside the Jail kitchen facility during the construction on a temporary basis while the Jail kitchen facility is undergoing extensive renovations. The provision and preparation of meals outside of the Jail kitchen during construction may be provided by either mobile transport of meals to the Jail facilities or through the use of a temporary meal preparation facility provided by the Vendor. Any temporary kitchen may be located on the County's property within one city block of the Jail. Water and Wastewater hook ups will be provided during the operation of the temporary meal preparation facility.

6. During construction on the Jail kitchen facilities and while Vendor prepares meals outside of the Jail kitchen, the Vendor must comply with all terms and conditions of this Contract in the same manner that is required when utilizing the Jail kitchen. Furthermore, the temporary preparation of meals outside of the Jail kitchen must include provisions for cleaning and sanitation as required by the Williamson County Health Department and in the same manner as is required for preparation of meals inside the Jail kitchen.

7. During construction on the Jail kitchen, meals must be delivered from the temporary facility or mobile transport to a secure area in the Jail, as directed by County Jail personnel. Inmate trustee labor will be available once the meals are delivered by the vendor to the interior secure area of the Jail. Inmate trustee labor will not be made available outside of the secured area of the Jail during the construction of the Jail kitchen.

8. Vendor shall provide the temporary meal preparation facility or by mobile transport for the duration of the Jail kitchen construction. The County currently estimates the Jail kitchen construction will take approximately 90-120 business days.

9. County agrees to pay Vendor on a unit cost of per meal per inmate fed as follows:

A. During Jail Kitchen Construction (temporary meal/snack preparation facility or by mobile transport):

1. Per Person, Per **Regular Meal** (breakfast, lunch and dinner) – During Jail Kitchen Construction (temporary meal preparation facility or by mobile transport): **$1.725**; and
2. Per Person, Per **Dietary Snack** – During Jail Kitchen Construction (snacks prepared in temporary meal preparation facility or by mobile transport): **$0.50**.

B. During Use of Jail Kitchen:

1. Per Person, Per **Regular Meal** (breakfast, lunch and dinner), Per Day – Meals Prepared in Jail Kitchen: **$0.91**; and
2. Per Person, Per **Dietary Snack** – Snacks Prepared in Jail Kitchen: **$0.50**.

10. Vendor agrees to serve meals on insulated plastic trays and to distribute the meals to the individual inmates.

11. Vendor agrees to provide an on-site Food Service Manager who is trained, experienced, and knowledgeable of food services in detention facilities. The manager assigned will be subject to review by the Williamson County Sheriff or his agent.

12. Vendor agrees that all books and records of Vendor pertaining to meal preparation and delivery subject to this Contract shall be available for a period of thirty-six (36) months after the close of the County's fiscal year to which they pertain, for inspection and audit by representatives of the Texas Department of Human Resources, the U.S. Department of Agriculture and/or the U.S. General Accounting Office, at any reasonable time and place.

13. Vendor agrees to provide on-site employees, who are well trained, honest, reliable, and in uniform of a style and color to distinguish them from inmate workers, to successfully perform the requirements of providing food to the inmates.

14. Vendor agrees that all employees must have a valid food handler's certificate from the Health Department and that all costs associated with obtaining such certificate shall be borne by Vendor.

15. Vendor agrees that all employees shall be subject to background checks. Vendor agrees that background checks for each applicant for employment shall be performed prior to the extension of a job offer. The Williamson County Sheriff or his agent will perform checks. County shall retain the right to deny right of entry to any and all employees of Vendor.

16. Vendor agrees to provide ongoing in-service training to cover such areas as safety, sanitation and food handling to all employees and to any inmate workers provided.

17. Vendor agrees to properly and safely use and operate all electrical, gas and plumbing fixtures, equipment or appliances supplied by County or by Vendor.

18. Vendor agrees to maintain the entire food service and delivery areas, all silverware, utensils and equipment needed to prepare and serve meals in a clean and sanitary condition in compliance with all Federal, State and Local standards.

19. Vendor agrees to collect and dispose of all rubbish, garbage, litter or other waste in accordance with established policies of the Health Department.

20. Vendor agrees to submit a comprehensive, weekly invoice to the Williamson County Sheriff or his agent showing the number of meals actually served to inmates for the preceding week. This invoice shall be detailed so as to show how many inmates were provided food at each mealtime. This invoice is to be submitted each Monday of the month.

21. Indemnification:

INDEMNIFICATION - EMPLOYEE PERSONAL INJURY CLAIMS. TO THE FULLEST EXTENT PERMITTED BY LAW, VENDOR SHALL INDEMNIFY, DEFEND (WITH COUNSEL OF COUNTY'S CHOOSING), AND HOLD HARMLESS COUNTY, AND COUNTY'S EMPLOYEES, AGENTS, REPRESENTATIVES, PARTNERS, OFFICERS, AND DIRECTORS (COLLECTIVELY, THE "INDEMNITEES") AND SHALL ASSUME ENTIRE RESPONSIBILITY AND LIABILITY (OTHER THAN AS A RESULT OF INDEMNITEES' GROSS NEGLIGENCE) FOR ANY CLAIM OR ACTION BASED ON OR ARISING OUT OF THE PERSONAL INJURY, OR DEATH, OF ANY EMPLOYEE OF VENDOR, OR OF ANY SUBCONTRACTOR, OR OF ANY OTHER ENTITY FOR WHOSE ACTS THEY MAY BE LIABLE, WHICH OCCURRED OR WAS ALLEGED TO HAVE OCCURRED AT THE JAIL OR IN CONNECTION WITH THE PERFORMANCE OF THE CONTRACT. VENDOR HEREBY INDEMNIFIES THE INDEMNITEES EVEN TO THE EXTENT THAT SUCH PERSONAL INJURY WAS CAUSED OR ALLEGED TO HAVE BEEN CAUSED BY THE SOLE, COMPARATIVE OR CONCURRENT NEGLIGENCE OF THE STRICT LIABILITY OF ANY INDEMNIFIED PARTY. THIS INDEMNIFICATION SHALL NOT BE LIMITED TO DAMAGES, COMPENSATION, OR BENEFITS PAYABLE UNDER INSURANCE POLICIES, WORKERS COMPENSATION ACTS, DISABILITY BENEFITS ACTS, OR OTHER EMPLOYEES BENEFIT ACTS.

INDEMNIFICATION - OTHER THAN EMPLOYEE PERSONAL INJURY CLAIMS. TO THE FULLEST EXTENT PERMITTED BY LAW, VENDOR SHALL INDEMNIFY, DEFEND (WITH COUNSEL OF COUNTY'S CHOOSING), AND HOLD HARMLESS COUNTY, AND COUNTY'S EMPLOYEES, AGENTS, REPRESENTATIVES, PARTNERS, OFFICERS, AND DIRECTORS (COLLECTIVELY, THE "INDEMNITEES") FROM AND AGAINST CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING BUT NOT LIMITED TO ATTORNEYS' FEES, ARISING OUT OF OR ALLEGED TO BE RESULTING FROM THE PERFORMANCE OF THIS CONTRACT OR THE SERVICES DESCRIBED HEREIN, TO THE EXTENT CAUSED BY THE NEGLIGENCE, ACTS, ERRORS, OR OMISSIONS OF VENDOR OR ITS SUBCONTRACTORS, ANYONE EMPLOYED BY THEM OR ANYONE FOR WHOSE ACTS THEY MAY BE LIABLE, REGARDLESS OF WHETHER OR NOT SUCH CLAIM, DAMAGE, LOSS OR EXPENSE IS CAUSED IN WHOLE OR IN PART BY A PARTY INDEMNIFIED HEREUNDER.

22. Vendor agrees to provide County with proof of Workers Compensation and Employer's Liability insurance of at least $100,000.00 per each accident; Comprehensive General (public) Liability Insurance (which shall include premises, operation, independent contractors, personal injury, products, bodily injury) in the amount of $1,500,000.00 per occurrence, property damages insurance in the amount of $1,500,000.00 per occurrence.

23. Vendor agrees that Williamson County shall be named as an additional insured party on the General Liability Insurance, be provided with a waived subrogation, and be provided with certificates of insurance evidencing the above insurance. Any insurance provided by Vendor (Additional Insured or Otherwise) shall only cover losses for which Vendor is legally liable;

such insurance coverage shall not cover liability in connection with or arising out of the wrongful or negligent acts or omissions of the County. Both Vendor and County waive all rights of recovery from each other for property damage or loss of use thereof, however occurring. The foregoing waiver does not apply to bodily injury or death claims. Notice of cancellation of any insurance policies required herein shall be subject to ACORD 25 Certificate of Liability standards, and will be delivered, as applicable, in accordance with policy provisions.

24. Vendor agrees to provide to County a Surety Bond guaranteeing performance of all conditions of this contract in the amount of fifty thousand dollars ($50,000.00), said bond to be forfeited in the event that Vendor fails to satisfactorily perform this Contract.

25. Vendor agrees to provide meal service to inmates at the agreed upon price, and acknowledges that due to conditions beyond control by the County, County facilities may not be available for Vendor's use at some point in time in the future.

26. Vendor agrees that the services to be provided, under this Contract, are vital to County and must be continued without interruption and that upon expiration of this Contract another vendor may be selected. Vendor agrees to furnish "phase-in" training and exercise its best efforts and cooperation to effectively have an orderly and efficient transition to a successor.

27. Vendor agrees that this Contract is not assignable without the express written consent of the Commissioner's Court of Williamson County. This Contract shall be binding upon and inure to the benefit of parties hereto and their respective successors and permitted assigns.

28. County agrees to assist vendor in obtaining use of U.S. Department of Agriculture commodities in providing food service to inmates of the Williamson County Jail, however vendor shall assume all costs, both direct and indirect, in procuring such commodities and in complying with the rules and regulations of the U.S. Department of Agriculture and the Texas Department of Human Resources and that all commodities received by Vendor shall be used only in accordance with the aforementioned rules and regulations, and for the benefit of County, and only in performance of this Contract. It is further agreed that Vendor shall be responsible for the proper disposition and removal of excess or stale dated commodities that have been obtained through the USDA surplus commodity program.

29. Except during construction on the Jail kitchen, County agrees to make available for vendors use the kitchen facilities, utensils, and equipment located in the County Jail at no cost for the performance of this Contract. County states, and Vendor understands, that this is only an accommodation to Vendor and that County makes no warranties, expressed or implied as to their availability, and Vendor acknowledges that vendor must have a contingency plan to provide food to the inmates in the event that County facilities are not available for his/her use. All equipment maintenance costs, including preventative maintenance costs, shall be borne by the County. Vendor shall pay County a maintenance fee in the amount of Two Thousand US Dollars ($2,000.00) per month within 30 days after the end of each month, unless otherwise agreed by the parties. The County's maintenance department shall be notified of all necessary equipment maintenance, and vendor shall provide to the County Maintenance Supervisor, a schedule for preventative maintenance on all kitchen equipment owned by the County, and used by the Vendor.

30. County agrees to pay all utility costs for preparation of foodstuff, but under no circumstance will County reimburse Vendor for any utility costs if Vendor uses any other facilities for preparation of food other than a temporary food preparation facility that is located adjacent to the Jail during construction on the Jail kitchen.

31. County agrees to provide pest control for all areas within the Jail, including those areas utilized by Vendor in performance of this Contract, and to maintain adequate security of all

food service areas during food service operations, and to provide clean uniforms for all inmate workers and to provide paper and plastic eating supplies as required.

32. County agrees to provide inmate trustees to assist in the food service to the greatest extent possible, but Vendor acknowledges that at times there may not be any inmate, trustees furnished. When inmate trustees are provided to assist in the food service, the trustees must be supervised by a County Licensed Correction Officer ONLY. As set out herein above and in addition to the foregoing, inmate trustee labor will be available once the meals are delivered by the Vendor to the interior secure area of the Jail during construction on the Jail kitchen and inmate trustee labor will not be made available outside of the secured area of the Jail during the construction of the Jail kitchen.

33. Subject to the termination rights set out herein, this Contract between County and Vendor shall be in force from August 1, 2016 until July 31, 2019 (the "Initial Term").

34. At the end of the Initial Term, the Commissioners Court of Williamson County reserves the right to extend this Contract for up to two (2) additional twelve (12) month extension terms, by mutual agreement of both parties, as it deems to be in the best interest of the County. The terms and conditions for any extension term shall remain the same with a price adjustment at renewal time for no more than the consumer price index, the Consumer Price Index, All Urban Consumers (CPI-I), U.S. City Average, Food Away From Home Index, unadjusted, 12-months, as published by the US Department of Labor for that year. Such adjustments shall be calculated using the index for the month of December preceding the beginning of the new 12-month extension and shall be effective as to the new 12-month extension term provided same is approved in advance by the Commissioners Court of Williamson County. The total period of this Contract, including all extensions will not exceed a maximum combined period of sixty (60) months.

35. Each party to this Contract reserves the right to terminate this Contract upon sixty (60) calendar day's written notice for its convenience, and for any termination County shall pay Vendor those costs directly attributable to work done or supplies obtained in preparation for completion or compliance with the Contract prior to such termination. In the event County pays for the cost of supplies or materials obtained for use under this Contract up to the effective date of termination, said supplies or materials shall become the property of Williamson County and shall be delivered to the Jail.

36. County and Vendor both agree that the Williamson County Commissioners Court shall be the sole and final authority on issues relating to this Contract. Should any matter not be resolved to the Vendor's satisfaction, Vendor shall have the right to be heard in open court by Commissioners Court and the decision of Commissioners Court shall be final and conclusive, and shall be binding on all parties concerned.

37. Vendor understands that to the extent that County provides equipment for preparation of food for inmates, such equipment, if used, shall be used for food preparation for County inmates only.

38. The financial arrangements in this Contract are based on conditions existing as of the effective date of the Contract including any representations regarding existing and future conditions made by County in connection with the negotiation and execution of this Agreement. If such conditions change due to causes beyond Vendor's control, including, but not limited to, a change in the scope of Vendor's services; menu changes; a decrease in the Facility's inmate population; efforts to organize labor; increases in food, fuel, equipment, utilities and supply costs; Federal, State and local sales, and other taxes and other operation costs; a change in Federal, State and local standards, requirements recommendations, and regulations; or other unforeseen external market conditions outside Vendor's control, then Vendor shall give County written notice of such increase or change, and within thirty (30)

calendar days after such notice, Vendor and County shall mutually agree upon modification(s) to offset the impact of the increase or change, which modifications may include any or a combination of the following: an adjustment to Vendor's price per meal, modifications to the menu, or modifications to Vendor's scope of services.

39. Miscellaneous:

a. If the party obligated to perform is prevented from performance by an act of war, order of legal authority, act of God, or other unavoidable cause not attributable to the fault or negligence of said party, the other party shall grant such party relief from the performance of this Contract. The burden of proof for the need of such relief shall rest upon the party obligated to perform. To obtain release based on force majeure, the party obligated to perform shall file a written request with the other party.

b. If any provision of this Contract shall be held invalid or unenforceable by any court of competent jurisdiction, such holding shall not invalidate or render unenforceable any other provision hereof, but rather this entire Contract will be construed as if not containing the particular invalid or unenforceable provision or provisions, and the rights and obligation of the parties shall be construed and enforced in accordance therewith. The parties acknowledge that if any provision of this Contract is determined to be invalid or unenforceable, it is the desire and intention of each that such provision be reformed and construed in such a manner that it will, to the maximum extent practicable, give effect to the intent of this Contract and be deemed to be validated and enforceable.

c. Each party to this Contract hereby agrees and acknowledges that venue and jurisdiction of any suit, right, or cause of action arising out of or in connection with this Contract shall lie exclusively in Williamson County, Texas, and the parties hereto expressly consent and submit to such jurisdiction. Furthermore, except to the extent that this Contract is governed by the laws of the United States, this Contract shall be governed by and construed in accordance with the laws of the State of Texas, excluding, however, its choice of law rules.

d. The parties to this Contract agree that during the performance of the services under this Contract they will not discriminate against any employee or applicant for employment because of race, color, religion, sex, or national origin. The parties to this Contract will take affirmative action to ensure that applicants are employed, and that employees are treated during employment, without regard to their race, color, religion, sex or national origin. Such action shall include, but not be limited to the following: employment, upgrading, demotion, or transfer; termination; rates of pay or other forms of compensation, and selection for training, including apprenticeship.

e. Any notice to be given hereunder shall be in writing and may be affected by personal delivery, in writing or by registered or certified mail, return receipt requested, addressed to the proper party, at the following address:

County: Williamson County Judge
710 Main Street, Ste. 101
Georgetown, Texas 78626

with copy to: Williamson County Sheriff
508 S. Rock Street
Georgetown, Texas 78626

Vendor: Aramark Correctional Services, LLC
Attn: Vice President, Finance
1101 Market Street
Philadelphia, PA 19107

f. Each party to this Contract shall comply with all federal, state, and local laws, statutes, ordinances, rules and regulations, and the orders and decrees of any courts or administrative bodies or tribunals in any matter affecting the performance of this Contract, including, without limitation, Worker's Compensation laws, salary and wage statutes and regulations, licensing laws and regulations. When required, Vendor shall furnish the County with certification of compliance with said laws, statutes, ordinances, rules, regulations, orders, and decrees above specified.

g. Each party to this Contract acknowledges that it and its counsel have reviewed this Contract and that the normal rules of construction are not applicable and there will be no presumption that any ambiguities will be resolved against the drafting party in the interpretation of this Contract.

h. Each party to this Contract, in the performance of this Contract, shall act in an individual capacity and not as agents, employees, partners, joint ventures or associates of one another. The employees or agents of one party shall not be deemed or construed to be the employees or agents of the other party for any purposes whatsoever.

i. Nothing in this Contract shall be deemed to waive, modify or amend any legal defense available at law or in equity to County, its past or present officers, employees, or agents, nor to create any legal rights or claim on behalf of any third party. County does not waive, modify, or alter to any extent whatsoever the availability of the defense of governmental immunity under the laws of the State of Texas and of the United States.

j. The failure or delay of any party to enforce at any time or any period of time any of the provisions of this Contract shall not constitute a present or future waiver of such provisions nor the right of either party to enforce each and every provision. Furthermore, no term or provision hereof shall be deemed waived and no breach excused unless such waiver or consent shall be in writing and signed by the party claimed to have waived or consented. Any consent by any party to, or waiver of, a breach by the other, whether expressed or implied, shall not constitute a consent to, waiver of or excuse for any other, different or subsequent breach.

k. Vendor agrees that County or its duly authorized representatives shall, until the expiration of three (3) years after final payment under this Contract, have access to and the right to examine and photocopy any and all books, documents, papers and records of Vendor which are directly pertinent to the services to be performed under this Contract for the purposes of making audits, examinations, excerpts, and transcriptions. Vendor agrees that County shall have access during normal working hours to all necessary Vendor facilities and shall be provided adequate and appropriate work space in order to conduct audits in compliance with the provisions of this section. County shall give Vendor reasonable advance notice of intended audits.

l. The obligations of the Parties under this Contract do not constitute a general obligation or indebtedness of either Party for which such Party is obligated to levy, pledge, or collect any form of taxation. It is understood and agreed that County shall have the right to terminate this Contract at the end of any County fiscal year if the governing body of County does not appropriate sufficient funds as determined by County's budget for the fiscal year in question. County may effect such termination by giving written notice of termination at the end of its then-current fiscal year.

m. County's payment for goods and services shall be governed by Chapter 2251 of the Texas Government Code. Invoices shall be paid by County within thirty (30) days from the date of the Williamson County Auditor's receipt of an invoice. Interest charges for any late payments shall be paid by County in accordance with Texas Government Code Section 2251.025. More specifically, the rate of interest that shall accrue on a late payment is the rate in effect on September 1 of County's fiscal year in which the payment becomes due. The said rate in effect on September 1 shall be equal to the sum of one percent (1%); and (2) the prime rate published in the Wall Street Journal on the first day of July of the preceding fiscal year that does not fall on a Saturday or Sunday. In the event that a discrepancy arises in relation to an invoice, such as an incorrect amount on an invoice or a lack of documentation that is required to be attached to an invoice to evidence the amount claimed to be due, County shall notify Vendor of the discrepancy. Following County's notification of any discrepancy as to an invoice, Vendor must resolve the discrepancy and resubmit a corrected or revised invoice, which includes all required support documentation, to the Williamson County Auditor. County shall pay the invoice within thirty (30) days from the date of the Williamson County Auditor's receipt of the corrected or revised invoice. County's payment of an invoice that contains a discrepancy shall not be considered late, nor shall any interest begin to accrue until the thirty-first (31st) day following the Williamson County Auditor's receipt of the corrected or revised invoice.

n. The parties to this Contract each represent and warrant to the other party that the warranting party possesses the legal authority to enter into this Contract and that it has taken all actions necessary to exercise that authority and to lawfully authorize its undersigned signatory to execute this Contract and to bind such party to its terms. Each person executing this Contract on behalf of a party warrants that he or she is duly authorized to enter into this Contract on behalf of such party and to bind it to the terms hereof.

o. As a duly authorized representative of Vendor, I acknowledge by my signature below that I have read and understand the above paragraphs and that Vendor has the obligation to ensure compliance with its provisions by itself and its employees, agents, and representatives.

p. This Contract represents the entire and integrated agreement between the parties hereto and supersedes all prior negotiations, representations, or agreements, either oral or written. This Contract may be amended only by written instrument signed by each party to this Contract. NO OFFICIAL, EMPLOYEE, AGENT, OR REPRESENTATIVE OF THE COUNTY HAS ANY AUTHORITY, EITHER EXPRESS OR IMPLIED, TO AMEND THIS AGREEMENT, EXCEPT PURSUANT TO SUCH EXPRESS AUTHORITY AS MAY BE GRANTED BY THE WILLIAMSON COUNTY COMMISSIONERS COURT.

SIGNED to be effective the 1st DAY OF August, 2016.

Williamson County, Texas (County):

JUDGE DAN GATTIS
WILLIAMSON COUNTY JUDGE

Aramark Correctional Services, LLC (Vendor):

By: _____
Printed Name: Mark R. Adams
Title: Vice President, Finance

Commissioners Court - Regular Session **29.**

Meeting Date: 12/11/2018

contract

Submitted For: Dan Gattis **Submitted By:** Rebecca Clemons, County Judge

Department: County Judge

Agenda Category: Regular Agenda Items

Information

Agenda Item

Discuss, consider and take appropraite action on an Interlocal Cooperation Contract with Texas Department of Public Safety.

Background

This item is an agreement between DPS and Williamson County, refered to as the Local Governement Entity Employer (LGEE). DPS has requested this contract with all of the counties in Texas that provide staffing for their local offices.

Fiscal Impact

From/To	Acct No.	Description	Amount

Attachments

contractLGEE

Form Review

Inbox	Reviewed By	Date
County Judge Exec Asst. (Originator)	Rebecca Clemons	12/05/2018 03:02 PM
Form Started By: Rebecca Clemons		Started On: 12/05/2018 12:37 PM
Final Approval Date: 12/05/2018		

INTERLOCAL COOPERATION CONTRACT

I. CONTRACTING PARTIES AND AUTHORITY

The Department of Public Safety (DPS) and the Local Governmental Entity Employer (LGEE), Williamson County, Texas, are contracting under the authority of Texas Government Code Chapter 791 (the Interlocal Cooperation Act).

DPS certifies that it has the authority to contract for the services agreed upon by the authority granted in Texas Government Code Chapter 411.

II. PURPOSE

This Contract sets forth the agreed-upon terms and conditions of support to DPS by the LGEE. In general, the LGEE will provide administrative or operational support to DPS in furtherance of public safety in the respective jurisdiction. This Contract is not intended, and should not be construed, to create any right or benefit, substantive or procedural, enforceable at law or otherwise by any third party against the parties, or the officers, employees, agents, or associated personnel of the parties.

III. SCOPE OF OPERATIONS

A. While assigned to work with DPS, the LGEE employee will work on projects or operations in support of DPS as agreed upon by LGEE and DPS. LGEE will ensure its employee operates in accordance with DPS policies and procedures, which includes policies about physical access and network and systems access. When required, LGEE will require the LGEE employee to agree to and sign Non-disclosure Agreements, access policies, CJIS certifications, and any other documents that DPS deems necessary.
B. LGEE employee must be able to communicate clearly, both verbally and in writing, and be able to work in a high-stress environment.
C. A DPS-assigned supervisor will supervise LGEE employee while that employee is assigned to work with DPS.
D. Employee's duty hours are those agreed to by DPS, Monday through Friday, with the exception of State of Texas observed holidays, office closures due to inclement weather, and any other emergency closures as approved by DPS.
E. It is clearly understood by all Parties that LGEE employees that are not sworn officers are assigned to work with DPS in a support role.
F. DPS has the sole authority to approve or deny modifications to an employee placement.
G. DPS will document any equipment issued to the employee in writing and will include the following information: full description of the item(s); condition at time of issuance; length of time the property will remain with employee, and the location to which it must be returned. The LGEE employee must safeguard all property issued to him or her by DPS as if it were the employee's own property. LGEE and employee will report loss or damage of the issued equipment immediately to DPS. Unless contrary to law or regulation, LGEE agrees to be financially responsible for any damage to equipment owned by DPS that is caused by its employee and to settle up with its employee if necessary.

IV. RESPONSIBILITIES

A. DPS will:
   1. at its own expense and as necessary depending on the LGEE employee category, conduct a DPS-defined background check on employee prior to execution of this Contract and periodically throughout the employee's period of assignment;
   2. if applicable, notify LGEE of employee's failure to maintain acceptable background clearance;
   3. provide supervision of work and feedback on the employee's job performance to LGEE;
   4. reimburse LGEE for any DPS-mandated travel and training expenses for employee;
   5. provide appropriate work space, computer and telecommunications equipment, network access, office equipment and supplies to employee as necessary to fulfill his or her duties;
   6. maintain all equipment assigned to employee;
   7. provide training to employee consistent with the objectives of developing, upgrading, and maintaining skills required by DPS; and
   8. maintain files on employee for the purpose of documenting training records, emergency notifications, and other documentation as required by the State of Texas.

B. LGEE must:
   1. provide a primary point-of-contact to DPS;
   2. maintain responsibility for all payroll functions and pay (to include salary, fringe benefits, taxes, and retirement);
   3. notify DPS immediately in the event that employee is injured or suspected of misconduct;
   4. ensure employee adheres to all DPS and LGEE policies and procedures, including:
      a. LGEE's personnel, leave, and attendance policies;
      b. DPS's safety policies;
      c. DPS's physical and network access policies
      d. DPS's professional conduct policies;
   5. require employee to consent to an initial DPS-defined background check, if required for DPS duties, and maintain an acceptable background clearance throughout the placement at DPS;
   6. keep a current list of the names of all employees that work in a DPS office and will coordinate with the appropriate DPS office regarding all employees; and
   7. ensure employee maintains the confidentiality of all DPS data. This duty will survive the termination of this Contract.

V. TRAINING and TRAVEL EXPENSES

A. DPS will reimburse LGEE for any training and travel expenses incurred for employee's travel to training sessions, training exercises, or other DPS-required business activities. All travel expenses must be approved, in writing, and in advance and must comply with the State of Texas Travel Guidelines as posted in the following link: https://fmx.cpa.texas.gov/fmx/travel/textravel/index.php.

B. In the event that DPS does not prepay for training sessions or exercises, DPS will also reimburse LGEE for any training deemed necessary by DPS for the LGEE employee's job duties.

C. Should DPS approve and authorize travel or training expenses for the employee, LGEE employee must provide original receipts in support of the travel or training expenses.

VI. ADMINISTRATIVE, FINANCIAL, and PERSONNEL MANAGEMENT

A. LGEE is responsible for all personnel-related management of employee, including payroll, benefits, periodic performance reviews, job coaching, disciplinary actions, promotions, and terminations.
B. LGEE employee will be immediately unable to work on DPS premises in cases of unacceptable job performance, negative criminal history status changes, breach in confidentiality, or other unacceptable behavior in violation of this Contract. LGEE employees may be removed for other causes with two weeks' notice to LGEE and LGEE employee.
C. The LGEE employee may request a release from assignment to DPS by submitting the request in writing through the LGEE, with a carbon copy to DPS. If LGEE and DPS wish to continue their relationship, LGEE will identify a replacement employee and recommend that employee to DPS.

VII. LIABILITY

A. The Parties acknowledge that this Contract does not alter the applicable law governing civil liability, if any, arising from the conduct of employees.
B. LGEE acknowledges that it is responsible for the negligent, wrongful acts or omissions of its employees and agents while acting within the scope of their employment to the extent permitted by law. DPS cannot guarantee that the State of Texas will provide legal representation or indemnification to any employee.
C. Neither this Contract nor any activities between the Parties are intended to create an agency or employment relationship, a joint venture, or to otherwise create any liability for the Parties whatsoever, with respect to the Parties' indebtedness, liabilities, and obligations. No employee assigned by LGEE will be considered an employee of DPS.

VIII. CONTRACT AMOUNT and BASIS FOR CALCULATING COSTS

The total amount of this contract will not exceed $50,000.

Nothing in this Contract will require LGEE or DPS to obligate or transfer any funds. The only funds authorized for payment to LGEE under this Contract is the reimbursement for any DPS-approved and requested travel and training expenses incurred throughout the term of this Contract.

IX. TERM OF CONTRACT, TERMINATION, and AMENDMENTS

This contract is effective on the date of the last party to sign and will terminate four years from that effective date, or upon written request of either party with 30 calendar days' written notice, whichever occurs earlier. This contract may only be amended or extended by mutual written agreement of the parties.

X. POINTS OF CONTACT

	DPS	LGEE
Name	Damon Derr	Williamson County Judge
Title	Sergeant	
Address	1070 Westinghouse Road	710 Main Street, Suite 101
City, State, Zip	Georgetown, TX 78626	Georgetown, TX 78626
Phone	512-930-2905	512-943-1550

XI. CERTIFICATIONS

The parties certify that (1) the contract is authorized by the governing body of each party; (2) the purpose, terms, rights, and duties of the parties are stated within the contract; and (3) each party will make payments for the performance of governmental functions or services from current revenues available to the paying party.

LGEE agrees to abide and to ensure its employees abide by all terms and conditions specified within this Contract.

The undersigned signatories have full authority to enter into this Contract on behalf of the respective Parties.

Local Governmental Entity Employer

Signatory's name: _____
Signatory's title: County Judge

Date

Department of Public Safety

D. Derr

Signatory's name: Damon Derr
Signatory's title: Sergeant

12/5/18

Date

Commissioners Court - Regular Session **30.**

Meeting Date: 12/11/2018

Change Drawer for Justice of the Peace Precinct 4

Submitted For: Julie Kiley **Submitted By:** Julie Kiley, County Auditor

Department: County Auditor

Agenda Category: Regular Agenda Items

Information

Agenda Item

Discuss, consider and take appropriate action on establishing change drawers for Justice of the Peace Precinct 4 for a total of $300.00.

Background

These drawers are being set up for the new Justice of the Peace. The Auditor's Office is recommending 3 drawers with $100.00 each in them.

Fiscal Impact

From/To	Acct No.	Description	Amount

Attachments

No file(s) attached.

Form Review

Inbox	Reviewed By	Date
County Judge Exec Asst.	Wendy Coco	12/05/2018 10:04 AM
Form Started By: Julie Kiley		Started On: 12/03/2018 10:37 AM
Final Approval Date: 12/05/2018		

Commissioners Court - Regular Session **31.**

Meeting Date: 12/11/2018

CDBG CAPER

Submitted By: Sally Bardwell, HUD Grants

Department: HUD Grants

Agenda Category: Regular Agenda Items

Information

Agenda Item

Discuss and take appropriate action on the Community Development Block Grant program's Consolidated Annual Performance and Evaluation Report (CAPER).

Background

The Consolidated Annual Performance and Evaluation Report (CAPER) is required by the U.S. Department of Housing and Urban Development (HUD) to report on the annual performance of the Williamson County FY17 Community Development Block Grant (CDBG) program. This report identifies the progress made regarding active and completed projects that have received Williamson County CDBG funds, as well as other accomplishments the County has made in meeting the objectives and priorities outlined in the five year Consolidated Plan.

Fiscal Impact

From/To	Acct No.	Description	Amount

Attachments

2017 CAPER

Form Review

Inbox	Reviewed By	Date
County Judge Exec Asst.	Wendy Coco	12/05/2018 10:16 AM
Form Started By: Sally Bardwell		Started On: 12/04/2018 02:14 PM
Final Approval Date: 12/05/2018		

Williamson County, TX

Community Development
Consolidated Annual Performance and Evaluation Report
Fiscal Year 2017

Sally Bardwell
Williamson County Community Development Administrator
512-943-3757
sbardwell@wilco.org

Williamson County
710 Main Street
Georgetown, TX 78626
512-943-3757

CR-05 - Goals and Outcomes

Progress the jurisdiction has made in carrying out its strategic plan and its action plan. 91.520(a)

This could be an overview that includes major initiatives and highlights that were proposed and executed throughout the program year.

Williamson County was awarded CDBG funds in the amount of $1,283,203 for Fiscal Year 2017 (October 1, 2017 through September 30, 2018). In accordance to the priorities identified and outlined in the County's Consolidated Plan, three infrastructure projects, two public facilities projects and one social service project were identified for FY17 allocations. The projects serve low to moderate income areas and households throughout the County. The projects meet national goals and supports ongoing efforts in the community to address the growing population. All projects are identified as a high priorty in the Five-Year Consolidated Plan.

The Consolidated Annual Performance and Evaluation Report (CAPER) is required by the U.S. Department of Housing and Urban Development (HUD) to report on the annual performance of the Williamson County FY17 CDBG program. This report identifies the progress made regarding active projects and those projects that have been completed that received Williamson County funds, as well as other accomplishments the County has made in meeting the objectives and priorities outlined in the five year Consolidated Plan. Project progress can be found in the attachment section of this document.

It is required that this report be available for review for a minimum of 15 days. The review period is December 13 – December 27, 2018. The CAPER will be submitted to HUD following this review period.

Comparison of the proposed versus actual outcomes for each outcome measure submitted with the consolidated plan and explain, if applicable, why progress was not made toward meeting goals and objectives. 91.520(g)

Categories, priority levels, funding sources and amounts, outcomes/objectives, goal outcome indicators, units of measure, targets, actual outcomes/outputs, and percentage completed for each of the grantee's program year goals.

Goal	Category	Source / Amount	Indicator	Unit of Measure	Expected – Strategic Plan	Actual – Strategic Plan	Percent Complete	Expected – Program Year	Actual – Program Year	Percent Complete
Administration	Admin and Planning	CDBG: $	Other	Other	1	1	100.00%			
Emergency Shelter Operation	Non-Housing Community Development	CDBG: $	Public Facility or Infrastructure Activities other than Low/Moderate Income Housing Benefit	Persons Assisted	400	0	0.00%			
Emergency Shelter Operation	Non-Housing Community Development	CDBG: $	Public service activities other than Low/Moderate Income Housing Benefit	Persons Assisted	0	319		400	319	79.75%
Emergency Shelter Operation	Non-Housing Community Development	CDBG: $	Homeless Person Overnight Shelter	Persons Assisted	0	319		400	319	79.75%
Flood Drainage Improvements	Non-Housing Community Development	CDBG: $	Public Facility or Infrastructure Activities other than Low/Moderate Income Housing Benefit	Persons Assisted	1299	1299	100.00%			

Home-ownership Assistance	Affordable Housing	CDBG: $	Public service activities for Low/Moderate Income Housing Benefit	Households Assisted	0	0				
Home-ownership Assistance	Affordable Housing	CDBG: $	Rental units constructed	Household Housing Unit	0	0				
Home-ownership Assistance	Affordable Housing	CDBG: $	Homeowner Housing Added	Household Housing Unit	3	3	100.00%			
Housing Rehabilitation	Affordable Housing		Rental units rehabilitated	Household Housing Unit	0	0				
Public Facility Improvements	Non-Housing Community Development	CDBG: $409160	Public Facility or Infrastructure Activities other than Low/Moderate Income Housing Benefit	Persons Assisted	0	0		5165	0	0.00%
Public Services	Non-Housing Community Development	CDBG: $25000	Public service activities other than Low/Moderate Income Housing Benefit	Persons Assisted	0	0		20	0	0.00%

Sidewalks	Non-Housing Community Development	CDBG: $	Public Facility or Infrastructure Activities other than Low/Moderate Income Housing Benefit	Persons Assisted	3084	4389	142.32%	1305	1305	100.00%
Street Improvements	Non-Housing Community Development	CDBG: $	Public Facility or Infrastructure Activities other than Low/Moderate Income Housing Benefit	Persons Assisted	6329	0	0.00%			
Water/Sewer Improvements	Non-Housing Community Development	CDBG: $	Public Facility or Infrastructure Activities other than Low/Moderate Income Housing Benefit	Persons Assisted	0	0		7609	0	0.00%
Water/Sewer Improvements	Non-Housing Community Development	CDBG: $	Public Facility or Infrastructure Activities for Low/Moderate Income Housing Benefit	Households Assisted	23	0	0.00%			
Youth Center Improvements	Non-Housing Community Development	CDBG: $	Public Facility or Infrastructure Activities other than Low/Moderate Income Housing Benefit	Persons Assisted	100	100	100.00%			

Table 1 - Accomplishments – Program Year & Strategic Plan to Date

Assess how the jurisdiction's use of funds, particularly CDBG, addresses the priorities and specific objectives identified in the plan, giving special attention to the highest priority activities identified.

All activities funded are identified as High Priority projects. Please see attached document outlining projects funded and progress in 2017.

CR-10 - Racial and Ethnic composition of families assisted

Describe the families assisted (including the racial and ethnic status of families assisted). 91.520(a)

	CDBG
White	197
Black or African American	86
Asian	0
American Indian or American Native	0
Native Hawaiian or Other Pacific Islander	0
Total	**283**
Hispanic	62
Not Hispanic	221

Table 2 – Table of assistance to racial and ethnic populations by source of funds

Narrative

The numbers above represent the Hope Alliance/Crisis Center project. This project also assisted 36 other/multiracial individuals.

Individuals not shown in the numbers above include three white (3 Hispanic) families assisted by the Habitat for Humanity project. The Georgetown Housing Authority assisted 24 white (2 Hispanic) and two Native Hawaiian/other Pacific Islander individuals. The Taylor Housing Authority project assisted one white family.

CR-15 - Resources and Investments 91.520(a)

Identify the resources made available

Source of Funds	Source	Resources Made Available	Amount Expended During Program Year
CDBG	CDBG	1,283,203	130,873
HOME	HOME		
HOPWA	HOPWA		
ESG	ESG		
Other	Other		

Table 3 - Resources Made Available

Narrative

Identify the geographic distribution and location of investments

Target Area	Planned Percentage of Allocation	Actual Percentage of Allocation	Narrative Description
City of Georgetown, Census Tract 201.02, Block Groups 1 and 2			
City of Granger, Census Tract 213, Block Group 2 and 3			Sewer Project
City of Jarrell			Water Improvements
City of Liberty Hill, Census Tract 203.01, Block Group 1 and 3			
City of Taylor, Census Tracts 210.00 and 211.00			Multipurpose Center and Water/Wastewater
Countywide			

Table 4 – Identify the geographic distribution and location of investments

Narrative

The percentage of funding per project is listed below:

Weir Community Center 24.5%

Jarrell Water Improvements 16.8%

Taylor Dickey Museum and Multipurpose Center 8.5%

Granger Sewer Project 22.9%

Taylor Water/Wastewater Project 6.4%

Interagency Support Council 1.9%

Program Admin 19.9%

Leveraging

Explain how federal funds leveraged additional resources (private, state and local funds), including a description of how matching requirements were satisfied, as well as how any publicly owned land or property located within the jurisdiction that were used to address the needs identified in the plan.

Matching funds are not required in the CDBG program.

The following are leveraged funds per FY17 project:

City of Weir	$124,454
City of Jarrell Wastewater	$11,000
Taylor Dickey Museum	$453,849
City of Granger Drainage Project	$11,000
City of Taylor	$300,000
Interagency Support Council of Eastern Williamson County	$603,400

CR-20 - Affordable Housing 91.520(b)

Evaluation of the jurisdiction's progress in providing affordable housing, including the number and types of families served, the number of extremely low-income, low-income, moderate-income, and middle-income persons served.

	One-Year Goal	Actual
Number of Homeless households to be provided affordable housing units	0	0
Number of Non-Homeless households to be provided affordable housing units	0	4
Number of Special-Needs households to be provided affordable housing units	0	0
Total	**0**	**4**

Table 5 – Number of Households

	One-Year Goal	Actual
Number of households supported through Rental Assistance	0	0
Number of households supported through The Production of New Units	0	0
Number of households supported through Rehab of Existing Units	0	26
Number of households supported through Acquisition of Existing Units	0	0
Total	**0**	**26**

Table 6 – Number of Households Supported

Discuss the difference between goals and outcomes and problems encountered in meeting these goals.

The Number of non-homeless to be provided affordable housing units is represented by three Habitat for Humanity homes. Habitat will continue to provide affordable housing to families on land purchased with CDBG funds. This number also represents the Taylor Housing Authority project that assisted one family with down payment assistance.

The Rehab of Existing Units is represented by the Georgetown Housing Authority. Twenty-six units have been rehabbed/improved.

Discuss how these outcomes will impact future annual action plans.

The County will continue to monitor projects to ensure timely expenditures of funds allocated. The nature of these projects creates the potential for delay. However, these are high priority projects needed throughout the County and once started, expend funds rapidly.

Include the number of extremely low-income, low-income, and moderate-income persons served by each activity where information on income by family size is required to determine the eligibility of the activity.

Number of Households Served	CDBG Actual	HOME Actual
Extremely Low-income	26	0
Low-income	4	0
Moderate-income	0	0
Total	**30**	**0**

Table 7 – Number of Households Served

Narrative Information

The Georgeown Housing Authority project assisted 24 white families (2 Hispanic), two Native Hawaiin/Pacific Islander. All of these families are extremely low-income. Habitat for Humanity has provided homes to three white families (3 Hispanic). These families are low income. The Taylor Housing Authority assisted one white family that is low income with down payment assistance.

CR-25 - Homeless and Other Special Needs 91.220(d, e); 91.320(d, e); 91.520(c)

Evaluate the jurisdiction's progress in meeting its specific objectives for reducing and ending homelessness through:

Reaching out to homeless persons (especially unsheltered persons) and assessing their individual needs

The County supports the efforts of the Balance of State Continuum of Care (CoC) to simplify and broaden outreach and assessment efforts for homeless persons in Williamson County. The Continuum works to create a better communication system for service providers to stay in contact with both schools and hospitals to avoid homeless persons (or those at risk of homelessness) from falling through the cracks of the system. As part of the annual point-in-time count, the CoC conducts outreach. Not only are homeless people counted, particularly unsheltered persons, but representatives from various agencies are available to answer questions and provide information about available resources.

The County continues to support local social service agencies, such as Capital Idea, San Gabriel Crisis Service Center, Bluebonnet Trails, MHMR and the Georgetown Project that provide a wide array of support services for homeless persons. Examples of support include, but are not limited to, employees serving as board members, collaboration during special projects, and public recognition of services provided.

Another organization addressing homelessness is the Georgetown Project. The Georgetown Project opened the NEST in 2011 as an outreach to Georgetown ISD teens in 9th-12thgrade that were homeless or living in transition. The NEST Program now includes The NEST Host Home, an overnight safe haven for youth living in transition, and The NEST Empowerment Center, an after school safe haven for all Georgetown ISD high school teens who are in need of free resources.

The Georgetown Health Foundation awards grants to organizations that focus on sustaining and strengthening safety net services for children, youth, elders, and families who are low-income and/or have significant need. This includes sustain and enhance basic needs services, emergency financial assistance, housing, support emergency shelter initiatives for youth, and increase access to affordable, quality child care and out-of-school care.

Addressing the emergency shelter and transitional housing needs of homeless persons

The County funded the Williamson County Crisis Center in FY14 and FY15. The organization provides emergency shelter, counseling and case management at its confidential, secure shelter location. Food, clothing, safety planning, case management, counseling, legal advocacy, hospital and court accompaniment, tutoring, and assistance with crime victim compensation and protective orders are available throughout the stay. Hope Alliance also offers assistance with securing longer-term housing, beyond the 30 day shelter stay. This project was completed in May 2018. The shelter was able to assist

319 individuals during FY17.

Helping low-income individuals and families avoid becoming homeless, especially extremely low-income individuals and families and those who are: likely to become homeless after being discharged from publicly funded institutions and systems of care (such as health care facilities, mental health facilities, foster care and other youth facilities, and corrections programs and institutions); and, receiving assistance from public or private agencies that address housing, health, social services, employment, education, or youth needs

While Williamson County is not a direct recipient of Emergency Solution Grant funds, the County continues to partner with the Balance of State CoC to support efforts made to implement local coordinated discharge policies for individuals or families who are being discharged from a publicly funded institution.

Williamson County launched a community resources website that will allow people to search online for needed resources such as health care, mental health services, housing, food, and other community resources. The new Williamson County Community Resources website was designed to empower residents with information about resources in the Williamson County area so that they can connect with available services. Residents can go to www.wilco.org/communityresources and enter their zip code to search for services near their location. All searches are confidential.

Helping homeless persons (especially chronically homeless individuals and families, families with children, veterans and their families, and unaccompanied youth) make the transition to permanent housing and independent living, including shortening the period of time that individuals and families experience homelessness, facilitating access for homeless individuals and families to affordable housing units, and preventing individuals and families who were recently homeless from becoming homeless again

The Balance of State CoC works to ensure that homeless individuals make the transition to permanent housing and independent living, is prioritizing safe and stable housing and making affordable housing options more accessible to homeless individuals. Many homeless that struggle to transition into permanent housing and independent living suffer from mental illness and substance addiction. Recent trends through the Homeless Prevention and Rapid Re-housing program and Housing First model prioritize placing homeless individuals and families in permanent housing quickly, and then linking them to supportive services in the community. Williamson County continues to support local organizations, such as the Georgetown Community Service Center to assist homeless person with transitional and permanent housing.

Williamson Burnet County Oppotunities (WBCO) provides services such emergency assistance,

headstart, case management to transition out of poverty, adult education program for job skills, and rapid re-housing program.

CR-30 - Public Housing 91.220(h); 91.320(j)

Actions taken to address the needs of public housing

Williamson County's public housing authorities continue to seek additional funding to address public housing needs and apply for additional housing choice vouchers when available. Lack of funding is a barrier in addressing public housing needs and has created lengthy waiting lists and long waiting periods to be housed. Housing authorities continue to provide housing assistance and social service needs to residents and maintain efforts to implement more programs if funding allows.

The Georgetown Public Housing Authority manages Shady Oaks Apartments and Stonehaven Apartments. The Shady Oaks Apartments are Section 8 and offer 60 duplex apartments to qualified residents. The Stonehaven Apartments are public housing and offer 158 housing units to qualified residents. The Georgetown Housing Authority also manages a Section 8 (Housing Choice Voucher) program.

The Georgetown Housing Authority also provides a Family Self Sufficiency Program which is a HUD program that encourages communities to develop local strategies to help families obtain employment that will lead to economic independence and self-sufficiency. They work with welfare agencies, schools, businesses, and other local partners to develop a comprehensive program that gives participating FSS family members the skills and experience to assist them in obtaining employment that pays a living wage and hopefully, enable them to live without any form of public assistance.

The Taylor Housing Authority owns and manages the Mary Olson property and the Avery property. These properties are public housing facilities and offer 46 units and 70 units respectively. The Taylor Housing Authority also administers a Section 8 Housing Choice Voucher program that assists approximately 142 families. The Voucher program is a rental subsidy program where families choose where they want to live (based on certain stipulations) and the rental subsidy is paid to the landlord.

The Taylor Housing Autorhity was awarded $100,000 in CDBG funds for their Home Ownership Program to assist income eligible families with purchasing a home. One family has been assisted to date. The CDBG office is evaluating the need to increase support per client.

The Granger Housing Authority operates and manages 26 units available to qualified residents.

Williamson County works with the Georgetown Housing Authority to conduct required reviews and approvals in order for the Housing Authority to recieve federal funding. All Housing Authorities are invited to participate in the development of the annuall action plan and the 5-year consolidated plan. The Williamson County CDBG office assists, as requested, the housing authorities with funding options and any other needs.

Actions taken to encourage public housing residents to become more involved in management and participate in homeownership

Williamson County does not use CDBG funding directly to encourage public housing residents to become involved in management and to participate in homeownership activities. However, the County encourages the local public housing authorities to continue its current programs and collaborate with other agencies that assist with homeownership. The local Housing Authorities have Resident Commissions on their boards in an effort to encourage participation. Also, all documents requiring public review are provided to local housing authorities.

Actions taken to provide assistance to troubled PHAs

Georgetown Housing Authority, Round Rock Housing Authority, Taylor Housing Authority, and Granger Housing Authority are all standard performers and not considered troubled.

CR-35 - Other Actions 91.220(j)-(k); 91.320(i)-(j)

Actions taken to remove or ameliorate the negative effects of public policies that serve as barriers to affordable housing such as land use controls, tax policies affecting land, zoning ordinances, building codes, fees and charges, growth limitations, and policies affecting the return on residential investment. 91.220 (j); 91.320 (i)

Barriers to affordable housing can encompass a wide array of aspects, to include but not limited to banking, finance, and insurance industry regulations, socio-economic situations, neighborhood conditions, and public policy legislation and fair housing enforcement. The County will continue to work with nonprofit agencies in the community to remove or ameliorate the negative effects (if any) of public policies that serve as barriers to affordable housing.

Additionally, the County will continue to increase partnerships with local units of government to ensure equitable zoning practices as they relate to fair housing and the development of affordable housing.

Actions taken to address obstacles to meeting underserved needs. 91.220(k); 91.320(j)

The major obstacle to meeting all of the identified needs is the lack of funding resources. Typically, applicant request amounts are much higher than the entitlement amount which further escalates the budgetary constraints in meeting the undeserved needs. However, the County continues to partner, when feasible, with other nonprofit organizations to leverage the County's CDBG allocation.

Actions taken to reduce lead-based paint hazards. 91.220(k); 91.320(j)

To the greatest extent practicable, Williamson County works with local agencies to help eliminate the hazard of lead poisoning due to the presence of lead based paint. The County also disseminates information on lead based paint hazards to CDBG subrecipients who receive entitlement funds for housing activities where lead based paint may be an issue.

Actions taken to reduce the number of poverty-level families. 91.220(k); 91.320(j)

The County will continue to combat the number of poverty-level families by supporting incentives to attract, retain, and expand businesses, advocate for improved employment-affordable housing options and support organizations and programs that provide job training, education, and placement services.

Actions taken to develop institutional structure. 91.220(k); 91.320(j)

Williamson County continues to work with various local agencies to ensure that services offered through entitlement grant programs receive maximum amounts of exposure and benefit. These programs are carried out through oversight by the Williamson County Community Development Administrator in which work will be conducted through the issuance of sub-recipient agreements.

Actions taken to enhance coordination between public and private housing and social service agencies. 91.220(k); 91.320(j)

While Williamson County has limited resources to address the priorities identified, the County continues to seek partnerships and establish cooperative working relationships to leverage its annual CDBG allocations. This typically comes in the form of matching city funds (which are not required).

The County is also participating in the development of the Central Texas Fair Housing Assessment.

Identify actions taken to overcome the effects of any impediments identified in the jurisdictions analysis of impediments to fair housing choice. 91.520(a)

The current Analysis of Impediments identifies possible impediments to fair housing choice as:

- A lack of coordination of housing services in the County.
- Possible discrimination towards minority homebuyers and renters.
- Developers having little motivation to build affordable housing due to cost prohibitive barriers for construction.
- Preconceptions of minority borrowers regarding borrowing money.

Williamson County worked with FHEO during the Action Plan process and provided the following to be completed during FY17:

Impediment - Fair housing complaints data demonstrates that housing discrimination persists in Williamson County

- The County will mail educational information received from the FHEO office to all Williamson County Entitlement Program participating cities and potential non-profit organizations. This information will also be provided to local Housing Authorities and to Williamson County Habitat for Humanity.
- The County will meet with the local Housing Authorities to discuss impediments and potential actions to alleviate those impediments.

Impediment – Participating units of local government potentially do not fully understand their responsibility to affirmatively further fair housing choice.

- The Williamson County CDBG Agreement addresses non-discrimination, Section 504 Compliance and Equal Employment Opportunity, Fair Housing and Drug-Free Workplace. This practice will continue.
- The County will direct all participating cities and potential non-profits to the Williamson County CDBG website to review the proposed Analysis of Impediments.

Impediment - Residents with limited English proficiency do not have adequate access to County programs and services.

- The Williamson County CDBG program will continue to post notices in both English and Spanish and will have an interpreter available upon request.

Impediment – Policy documents used by Williamson County and local public housing authorities in the administration of housing programs should be improved to include additional fair housing aspects.

- Williamson County will update the current citizen participation plan to include language regarding AFFH.

Impediment – Discrimination has been noted to appear in real estate advertisements in locally circulated "green sheets" and appearing in unregulated online listings.

- The County will distribute a letter to publishers to inform them of their responsibilities relative to publishing discriminatory language in real estate advertisements.

All actions were completed by the Williamson County CDBG office.

CR-40 - Monitoring 91.220 and 91.230

Describe the standards and procedures used to monitor activities carried out in furtherance of the plan and used to ensure long-term compliance with requirements of the programs involved, including minority business outreach and the comprehensive planning requirements

The Community Development Administrator uses monthly progress reports submitted by each project to identify any problems or potential problems. Contact with each project manager assists in ensuring that projects are progressing, following appropriate regulations and utilizing CDBG funds efficiently and effectively. The Community Development Administrator also conducts meetings and/or communicates via email and phone with project managers regarding specifics of projects.

The Community Development Administrator conducts desk monitorings of each project to ensure compliance and progression.

Meeting with representatives from the projects ensures that regulations are being followed. The Community Development Administrator provides HUD guidance, County forms, labor forms and Davis Bacon information, and information on how to access funds.

The Community Development Administrator works closely with the Williamson County Auditors office in an effort to ensure appropriate and accurate financial documents are submitted for payment and that funds are spent in a timely manner. The Community Development Administrator and Grants Accountant work closely to improve procedures and to make certain that current procedures are efficient and adequate. All documents submitted with draw requests are thoroughly examined by the Community Development Administrator to ensure funding is being expended on eligible expenses and that funds are being utilized efficiently. Signatures by the CDBG office, County Judge and the Auditor's office are required and identified on all payment requests.

Citizen Participation Plan 91.105(d); 91.115(d)

Describe the efforts to provide citizens with reasonable notice and an opportunity to comment on performance reports.

All notices are published in local newspapers to inform citizens of public comment periods and public meetings. Public meetings are held in conjunction with each phase of the CDBG program to allow for citizen input.

CR-45 - CDBG 91.520(c)

Specify the nature of, and reasons for, any changes in the jurisdiction's program objectives and indications of how the jurisdiction would change its programs as a result of its experiences.

No changes have been made to the Williamson County CDBG program.

Does this Jurisdiction have any open Brownfields Economic Development Initiative (BEDI) grants?

No

[BEDI grantees] Describe accomplishments and program outcomes during the last year.

CR-45 - CDBG 91.520(c)

Specify the nature of, and reasons for, any changes in the jurisdiction's program objectives and indications of how the jurisdiction would change its programs as a result of its experiences.

No changes have been made to the Williamson County CDBG program.

Does this Jurisdiction have any open Brownfields Economic Development Initiative (BEDI) grants?

No

[BEDI grantees] Describe accomplishments and program outcomes during the last year.

Attachment

FY17 Funded Project Information

FY17 Funded Projects
Community Development Block Grant

City of Weir Community Center
Accomplishments: Construction of a 5000 square foot Community Center with kitchen and bathrooms located at 375 FM 1105, Weir TX. The Center will become the civic, social and cultural heart of the City of Weir as well as provide emergency shelter in disasters and evacuations. Engineering is underway.
FY17 $315,000
CDBG Funds Utilized to Date: $0
Census Tract 216.02 (Block Group 1)
Percent Low-Mod: 46.34%
Percent Minority: 25.3%

City of Jarrell Water Improvements
Activity 81
Accomplishments: Engineering is underway. Project was amended on June 5, 2018 from a wastewater project to a water project. Updated project description is the extension of the 12" waterline that was installed in the 2012 CDBG funding cycle. Construction would be on North 5th Street (north of Avenue East), on East Avenue C from North 5th Street to North 10th Street, on North 10th Street from East Avenue C to West Avenue A, and on West Avenue A from North 10th Street to North 8th Street. This portion of the line will be approximately 2000 feet.
FY17 $215,850
CDBG Funds Utilized to Date: $7400
Census Tract 216.03 (Block Group 2)
Percent Low-Mod: 56%
Percent Minority: 25.3%

Taylor Dickey Museum and Multipurpose Center
Accomplishments: Rehabilitation of the Dr. James Lee Dickey House located at 500 Burkett Street in Taylor, TX. Project includes, but is not limited to, building and foundation repairs, asbestos and lead paint testing and abatement, air testing, concrete walks and ramps. Construction began November 2018.
FY17 $109,160
CDBG Funds Utilized to Date: $0
Census Tract 212.03 (Block Group 1) Census Tract 210 (Block Groups 1 and 2) Census Tract 211 (Block Group 1)
Percent Low-Mod: 70.76%
Percent Minority: 212.03-37.08% 210-81.34% 211-57.49%

City of Granger Sewer Project
Activity 80
Accomplishments: Replacement of existing lift station located on Roswell Avenue with a prepackaged lift station. Project will include replacement of forcemain and gravity line relocation, and associated project incidentals. Advertisement for bid is anticipated for December 2018, project bid is anticipated for January 2019 and construction is anticipated to take approximately six months.
FY17 $294,350
CDBG Funds Utilized to Date: $2250
Census Tract 213 (Block Groups 2 and 3)
Percent Low-Mod: 49.83%
Percent Minority: 39.51%

City of Taylor Water/Wastewater and Street Reconstruction
Accomplishments: Construction on West 3rd Street from Vance to Howard in Taylor, TX. 6732 square yards of recycled pavement (12" deep with cement), 6120 square yards of 2.5" HMAC, 1355 linear feet of curb and gutter replacement, 340 linear feet of 8" wastewater main, 1750 linear feet of wastewater service lines with clean-outs at right of way, 2500 linear feet of 8" C900 water main, 1050 linear feet of water service lines 6 water valves and fittings, 3 wastewater manholes, 2840 linear feet of trench protection, 7 fire hydrants and associated appurtenances. Additional funding was allocated to this project through a substantial amendment. Project will receive an additional $117,000 of FY18 funding. Engineering is underway.
FY17 $82,203
FY18 $300,000
CDBG Funds Utilized to Date: $0
Census Tract 211 (Block Groups 1 and 2) Census Tract 210 (Block Groups 1, 2 and 3)
Percent Low-Mod: 73%
Percent Minority: 211-57.49% 210-81.34%

Interagency Support Council of Eastern Williamson County
Accomplishments: Provide individual and group therapy, small and large group presentations, crises intervention, psychiatric care, medication monitoring and family therapy to participating schools in Eastern Williamson County. Funding will allow the program to maintain the number of clients served. Program is beginning to identify clients and utilize funds.
FY17 $25,000
CDBG Funds Utilized to Date: $0
Percent Low-Mod: Limited Clientele
Percent Minority: TBD

Attachment

Previously Funded Project Information

Previously Funded Projects

Habitat for Humanity of Williamson County
Accomplishments: Nine properties have been purchased to date. Additional properties are being identified. To date, six familes have moved in. This is the final time Activities 55 and 61 will be reported in a CAPER.
FY12 $140,000 (Activity 55)
FY13 $140,000 (Activity 61)
FY14 $100,000 (Activity 74)
CDBG Funds Utilized to Date: $319,178.51
Percent Low-Mod: 100%
Percent Minority: 100%

City of Jarrell Wastewater Improvements
Activity 62
Accomplishments: Installation of approximately 1700 linear feet of 6 inch gravity wastewater pipe, four manholes, 23 wastewater service connections and all associated incidentals required for construction.
Installation of approximately 1250 linear feet of 8 inch gravity wastewater pipe, four manholes, 3 wastewater service connections and all associated incidentals required for construction. Project is complete. This is the final time this project will be reported in a CAPER.
The City of Jarrell has completed and paid for 31 household connections.
FY13 $285,700
FY14 $237,850
FY15 $226,537
FY16 199,300
CDBG Funds Utilized to Date: $859,594.65
Census Tract 216 (Block Groups 1, 2, 3)
Percent Low-Mod: 50.9%
Percent Minority: 25.3%

City of Granger Drainage Improvements Project
Activity 70
Accomplishments: Demolition of approximately 1200 square yards of roadway, three CMP drainage pipes and associated structures. Construction of a new creek crossing to provide access to the Granger ISD campus. An additional $37,339 was allocated to this project with a substantial amendment approved by Commissioners Court on October 17, 2017. Project is complete. This is the final time this project will be reported in a CAPER.
FY14 $54,400
FY15 $278,300
FY16 $37,339
CDBG Funds Utilized to Date: $370,039
Census Tract 213 (Block Groups 2 and 3)
Percent Low-Mod: 69.2%
Percent Minority: 39.51%

Williamson County Crisis Center/Hope Alliance
Activity 71
Accomplishments: Shelter has been renovated to include ADA accessible requirements, updated windows, insulation, flooring, kitchen and bathrooms and all other local government building requirements. Project is complete. This is the final time this project will be reported in a CAPER.
FY14 $20,000
FY15 $20,000
CDBG Funds Utilized to Date: $40,000
Percent Low-Mod: Limited Clientele
Percent Minority: 57.6%

Dickey Givens Community Center
Accomplishments: Original scope of work was the renovations to a 2040 square foot building originally constructed in 1940 to include improvements to the two bathrooms and entrance ramp to meet ADA standards, enlarging the kitchen, replacement of the electrical system, foundation leveled, windows replaced, improvements to the outside walls and roof repair. Substantial Amendment scope of work approved by Commissioners Court on November 6, 2018 is the demolition of the original community center. Construction of a new 2250 square foot community center at or near the same location. Funding was also increased with 2018 funding by $150,000.
FY16 $150,000
CDBG Funds Utilized to Date: $0
Census Tract 210 (Block Groups 1 and 2) Census Tract 211 (Block Group 1)
Percent Low-Mod: 73%
Percent Minority: 210-81.34% 211-57.49

Georgetown Housing Authority
Activity 77
Accomplishments: Rehab of an estimated 28 total units to include heating and cooling systems, electrical upgrade and asbestos abatement, as required. This project is complete. This is the final time this project will be reported in a CAPER.
FY16 $166,610
CDBG Funds Utilized to Date: $166,610
Percent Low-Mod: 100%
Percent Minority: 24 White (2 Hispanic), 2 Native Hawaiian/Pacific Islander

Taylor Housing Authority Home Ownership Program
Activity 79
Accomplishments: Down payment assistance was provided to one low income family. Home is located in Taylor TX. Additional income qualified families and individuals are being identified.
FY16 $100,000
CDBG Funds Utilized to Date: $10,000
Percent Low-Mod: 100%
Percent Minority: White/Hispanic

City of Georgetown Sidewalk Project
Activity 76
Accomplishments: Construction of 660 feet of 5' sidewalk, 400 feet of 15' driveways and 5 handicapped ramps on the east side of Scenic Drive from 8th Street to 10th Street. Construction of 255 feet of 5' sidewalk, 10 feet of driveways and one handicapped ramp on the west side of Scenic Drive from 7th Street to 8th Street. Construction of 485 feet of 6' sidewalk, 20 feet of driveways and 5 handicapped ramps on the south side of 6th Street from across Scenic Drive to MLK Jr Street. The project is complete. This is the final time this project will be reported in a CAPER.
FY16 $135,500
CDBG Funds Utilized to Date: $135,500
Census Tract 214.02 (Block Group 2)
Percent Low-Mod: 61.15%
Percent Minority: 51.54%

City of Granger Sewer Project
Activity 75
Accomplishments: Replacement of existing lift station, 750 linear feet of 2-inch force main pipe, 6-inch gravity PVC pipe, two manholes and associated project incidentals. The project is complete. This is the final time this project will be reported in a CAPER.
FY16 $329,500
CDBG Funds Utilized to Date: $287,498.07
Census Tract 213 (Block Groups 2 and 3)
Percent Low-Mod: 49.83%
Percent Minority: 39.51%

City of Liberty Hill Sidewalk Project
Accomplishments: Construction of 2,600 linear feet of 4-foot sidewalk, 100 linear feet of 5-foot sidewalk, nine ramps, 16 driveway aprons, and 1,170 linear feet of drainage improvements. The streets to be addressed include Hickman Street, Church Street, Barton Drive, Grange Street, and Munro Street. Survey of service area has been completed and indicates the area is qualified to use CDBG funding.
FY16 $26,000 (engineering only)
CDBG Funds Utilized to Date: $0
Survey indicates area is 60% low-mod

2017 CAPER Reports

GRANTEE: Williamson County PY 2017

LOCCS RECONCILIATION

Unexpended balance of CDBG funds *(Line 16 of the IDIS Financial Summary)*	$	1,835,583.35
LOCCS Balance (as of the end of the program year)	$	1,883,154.89
Unexpended CDBG program income and /or Unexpended CDBG grant funds:		
a) Grantee Program Account		
b) Sub recipients Program Account	$	-
c) Revolving Fund Cash Balances	$	-
d) Section 108 Cash Balances	$	-
Total *CASH ON-HAND*	$	-
Grantee Program Liabilities *(include any reimbursements due from program funds)*	$	47,571.54 Prior Year Flags.
Sub recipient Program Liabilities *(include any reimbursement due from program funds)*	$	-
Total *LIABILITIES*	$	47,571.54
RECONCILING BALANCE *(LOCCS Balance Plus Cash on Hand Total **minus** Liabilities Total)*	$	(0.00)
Total Unexpended Balance of CDBG Funds minus Reconciling Balance = Unreconciled Difference *	$	1,835,583.35

Note:

* *Provide an explanation for an unreconciled difference.*

***Use the IDIS PR09 to check for Program Income/Revolving Loan Fund Balances when Cash On-Hand is a positive figure.*

***Use the IDIS PR07 to check for draws marked "prior year" for the 1st 90 days after the program year ends.*

PART I: SUMMARY OF CDBG RESOURCES	
01 UNEXPENDED CDBG FUNDS AT END OF PREVIOUS PROGRAM YEAR	1,715,319.97
02 ENTITLEMENT GRANT	1,283,203.00
03 SURPLUS URBAN RENEWAL	0.00
04 SECTION 108 GUARANTEED LOAN FUNDS	0.00
05 CURRENT YEAR PROGRAM INCOME	0.00
05a CURRENT YEAR SECTION 108 PROGRAM INCOME (FOR SI TYPE)	0.00
06 FUNDS RETURNED TO THE LINE-OF-CREDIT	0.00
06a FUNDS RETURNED TO THE LOCAL CDBG ACCOUNT	0.00
07 ADJUSTMENT TO COMPUTE TOTAL AVAILABLE	0.00
08 TOTAL AVAILABLE (SUM, LINES 01-07)	2,998,522.97
PART II: SUMMARY OF CDBG EXPENDITURES	
09 DISBURSEMENTS OTHER THAN SECTION 108 REPAYMENTS AND PLANNING/ADMINISTRATION	1,020,114.02
10 ADJUSTMENT TO COMPUTE TOTAL AMOUNT SUBJECT TO LOW/MOD BENEFIT	0.00
11 AMOUNT SUBJECT TO LOW/MOD BENEFIT (LINE 09 + LINE 10)	1,020,114.02
12 DISBURSED IN IDIS FOR PLANNING/ADMINISTRATION	142,825.60
13 DISBURSED IN IDIS FOR SECTION 108 REPAYMENTS	0.00
14 ADJUSTMENT TO COMPUTE TOTAL EXPENDITURES	0.00
15 TOTAL EXPENDITURES (SUM, LINES 11-14)	1,162,939.62
16 UNEXPENDED BALANCE (LINE 08 - LINE 15)	1,835,583.35
PART III: LOWMOD BENEFIT THIS REPORTING PERIOD	
17 EXPENDED FOR LOW/MOD HOUSING IN SPECIAL AREAS	0.00
18 EXPENDED FOR LOW/MOD MULTI-UNIT HOUSING	0.00
19 DISBURSED FOR OTHER LOW/MOD ACTIVITIES	853,504.02
20 ADJUSTMENT TO COMPUTE TOTAL LOW/MOD CREDIT	0.00
21 TOTAL LOW/MOD CREDIT (SUM, LINES 17-20)	853,504.02
22 PERCENT LOW/MOD CREDIT (LINE 21/LINE 11)	83.67%
LOW/MOD BENEFIT FOR MULTI-YEAR CERTIFICATIONS	
23 PROGRAM YEARS(PY) COVERED IN CERTIFICATION	PY: PY: PY:
24 CUMULATIVE NET EXPENDITURES SUBJECT TO LOW/MOD BENEFIT CALCULATION	0.00
25 CUMULATIVE EXPENDITURES BENEFITING LOW/MOD PERSONS	0.00
26 PERCENT BENEFIT TO LOW/MOD PERSONS (LINE 25/LINE 24)	0.00%
PART IV: PUBLIC SERVICE (PS) CAP CALCULATIONS	
27 DISBURSED IN IDIS FOR PUBLIC SERVICES	40,000.00
28 PS UNLIQUIDATED OBLIGATIONS AT END OF CURRENT PROGRAM YEAR	0.00
29 PS UNLIQUIDATED OBLIGATIONS AT END OF PREVIOUS PROGRAM YEAR	0.00
30 ADJUSTMENT TO COMPUTE TOTAL PS OBLIGATIONS	0.00
31 TOTAL PS OBLIGATIONS (LINE 27 + LINE 28 - LINE 29 + LINE 30)	40,000.00
32 ENTITLEMENT GRANT	1,283,203.00
33 PRIOR YEAR PROGRAM INCOME	0.00
34 ADJUSTMENT TO COMPUTE TOTAL SUBJECT TO PS CAP	0.00
35 TOTAL SUBJECT TO PS CAP (SUM, LINES 32-34)	1,283,203.00
36 PERCENT FUNDS OBLIGATED FOR PS ACTIVITIES (LINE 31/LINE 35)	3.12%
PART V: PLANNING AND ADMINISTRATION (PA) CAP	
37 DISBURSED IN IDIS FOR PLANNING/ADMINISTRATION	142,825.60
38 PA UNLIQUIDATED OBLIGATIONS AT END OF CURRENT PROGRAM YEAR	135,413.99
39 PA UNLIQUIDATED OBLIGATIONS AT END OF PREVIOUS PROGRAM YEAR	21,599.59
40 ADJUSTMENT TO COMPUTE TOTAL PA OBLIGATIONS	0.00
41 TOTAL PA OBLIGATIONS (LINE 37 + LINE 38 - LINE 39 +LINE 40)	256,640.00
42 ENTITLEMENT GRANT	1,283,203.00
43 CURRENT YEAR PROGRAM INCOME	0.00
44 ADJUSTMENT TO COMPUTE TOTAL SUBJECT TO PA CAP	0.00
45 TOTAL SUBJECT TO PA CAP (SUM, LINES 42-44)	1,283,203.00
46 PERCENT FUNDS OBLIGATED FOR PA ACTIVITIES (LINE 41/LINE 45)	20.00%

LINE 17 DETAIL: ACTIVITIES TO CONSIDER IN DETERMINING THE AMOUNT TO ENTER ON LINE 17

Report returned no data.

LINE 18 DETAIL: ACTIVITIES TO CONSIDER IN DETERMINING THE AMOUNT TO ENTER ON LINE 18

Plan Year	IDIS Project	IDIS Activity	Activity Name	Matrix Code	National Objective	Drawn Amount
2016	2	77	Georgetown Housing Authority 2016	14C	LMH	$166,610.00
				14C	**Matrix Code**	**$166,610.00**
Total						**$166,610.00**

LINE 19 DETAIL: ACTIVITIES INCLUDED IN THE COMPUTATION OF LINE 19

Plan Year	IDIS Project	IDIS Activity	Voucher Number	Activity Name	Matrix Code	National Objective	Drawn Amount
2012	3	55	6208829	Habitat for Humanity Land Acquisition	01	LMH	$220.00
2013	3	61	6168903	Habitat for Humanity Land Acquisition	01	LMH	$200.00
2013	3	61	6180424	Habitat for Humanity Land Acquisition	01	LMH	$220.00
					01	**Matrix Code**	**$640.00**
2014	5	70	6098084	Granger Drainage Improvements	03I	LMA	$515.00
2014	5	70	6121357	Granger Drainage Improvements	03I	LMA	$4,635.00
2014	5	70	6130042	Granger Drainage Improvements	03I	LMA	$64,266.00
2014	5	70	6144006	Granger Drainage Improvements	03I	LMA	$1,030.00
2014	5	70	6153755	Granger Drainage Improvements	03I	LMA	$110,764.00
2014	5	70	6162843	Granger Drainage Improvements	03I	LMA	$2,404.00
					03I	**Matrix Code**	**$183,614.00**
2013	4	62	6098084	Jarrell Sewer Project Double Creek	03J	LMA	$1,350.00
2013	4	62	6121357	Jarrell Sewer Project Double Creek	03J	LMA	$3,150.00
2013	4	62	6130042	Jarrell Sewer Project Double Creek	03J	LMA	$76,180.00
2014	1	68	6098084	Taylor Street Rehab Project	03J	LMA	$154,181.95
2016	5	75	6098092	Granger Sewer FY16	03J	LMA	$1,200.00
2016	5	75	6121357	Granger Sewer FY16	03J	LMA	$4,000.00
2016	5	75	6130042	Granger Sewer FY16	03J	LMA	$153,772.50
2016	5	75	6153755	Granger Sewer FY16	03J	LMA	$800.00
2016	5	75	6162843	Granger Sewer FY16	03J	LMA	$73,842.37
2016	5	75	6208829	Granger Sewer FY16	03J	LMA	$23,083.20
2017	2	81	6208829	Jarrell Water Improvements 2017	03J	LMA	$7,400.00
2017	4	80	6208829	FY17 Granger Sewer Project	03J	LMA	$2,250.00
					03J	**Matrix Code**	**$501,210.02**
2016	4	76	6098084	Georgetown 2016 Sidewalk	03L	LMA	$3,120.10
2016	4	76	6121357	Georgetown 2016 Sidewalk	03L	LMA	$3,212.00
2016	4	76	6130042	Georgetown 2016 Sidewalk	03L	LMA	$2,050.00
2016	4	76	6162843	Georgetown 2016 Sidewalk	03L	LMA	$27,476.80
2016	4	76	6168903	Georgetown 2016 Sidewalk	03L	LMA	$82,181.10
					03L	**Matrix Code**	**$118,040.00**
2014	7	71	6144933	Williamson County Crisis Center/Hope Alliance	05G	LMC	$40,000.00
					05G	**Matrix Code**	**$40,000.00**
2016	3	79	6121357	Taylor Housing Authority Home Ownership Program	13B	LMH	$10,000.00
					13B	**Matrix Code**	**$10,000.00**
Total							**$853,504.02**

LINE 27 DETAIL: ACTIVITIES INCLUDED IN THE COMPUTATION OF LINE 27

Plan Year	IDIS Project	IDIS Activity	Voucher Number	Activity Name	Matrix Code	National Objective	Drawn Amount
2014	7	71	6144933	Williamson County Crisis Center/Hope Alliance	05G	LMC	$40,000.00
					05G	**Matrix Code**	**$40,000.00**

Plan Year	IDIS Project	IDIS Activity	Voucher Number	Activity Name	Matrix Code	National Objective	Drawn Amount
Total							**$40,000.00**

LINE 37 DETAIL: ACTIVITIES INCLUDED IN THE COMPUTATION OF LINE 37

Plan Year	IDIS Project	IDIS Activity	Voucher Number	Activity Name	Matrix Code	National Objective	Drawn Amount
2016	7	73	6093908	Program Administration 2016	21A		$7,497.14
2016	7	73	6098084	Program Administration 2016	21A		$9,117.04
2016	7	73	6109133	Program Administration 2016	21A		$4,985.41
2017	7	78	6109133	Program Administration 2017	21A		$7,109.51
2017	7	78	6121357	Program Administration 2017	21A		$12,608.79
2017	7	78	6130042	Program Administration 2017	21A		$9,074.28
2017	7	78	6144006	Program Administration 2017	21A		$13,771.32
2017	7	78	6153755	Program Administration 2017	21A		$8,846.98
2017	7	78	6162843	Program Administration 2017	21A		$11,989.19
2017	7	78	6168903	Program Administration 2017	21A		$10,487.83
2017	7	78	6180424	Program Administration 2017	21A		$11,688.44
2017	7	78	6189314	Program Administration 2017	21A		$21,031.33
2017	7	78	6208829	Program Administration 2017	21A		$14,618.34
					21A	**Matrix Code**	**$142,825.60**
Total							**$142,825.60**

PGM Year: 2012
Project: 0003 - Habitat for Humanity Land Acquisition
IDIS Activity: 55 - Habitat for Humanity Land Acquisition

Status: Completed 9/30/2018 12:00:00 AM
Location: 2108 N Austin Ave Georgetown, TX 78626-4511

Objective: Provide decent affordable housing
Outcome: Affordability
Matrix Code: Acquisition of Real Property (01)
National Objective: LMH

Initial Funding Date: 11/05/2013

Description:

Land acquisition of property throughout Williamson County for the purpose of developing affordable housing.

Financing

	Fund Type	Grant Year	Grant	Funded Amount	Drawn In Program Year	Drawn Thru Program Year
CDBG	EN	Pre-2015		$140,261.40	$0.00	$0.00
		2011	B11UC480502		$0.00	$9,521.50
		2012	B12UC480502		$0.00	$130,478.50
		2014	B14UC480502		$220.00	$261.40
Total	**Total**			**$140,261.40**	**$220.00**	**$140,261.40**

Proposed Accomplishments

Housing Units : 4

Actual Accomplishments

Number assisted:	Owner		Renter		Total		Person	
	Total	Hispanic	Total	Hispanic	Total	Hispanic	Total	Hispanic
White:	2	2	0	0	2	2	0	0
Black/African American:	0	0	0	0	0	0	0	0
Asian:	0	0	0	0	0	0	0	0
American Indian/Alaskan Native:	0	0	0	0	0	0	0	0
Native Hawaiian/Other Pacific Islander:	0	0	0	0	0	0	0	0
American Indian/Alaskan Native & White:	0	0	0	0	0	0	0	0
Asian White:	0	0	0	0	0	0	0	0
Black/African American & White:	0	0	0	0	0	0	0	0
American Indian/Alaskan Native & Black/African American:	0	0	0	0	0	0	0	0
Other multi-racial:	0	0	0	0	0	0	0	0
Asian/Pacific Islander:	0	0	0	0	0	0	0	0
Hispanic:	0	0	0	0	0	0	0	0

Total:	**2**	**2**	**0**	**0**	**2**	**2**	**0**	**0**
Female-headed Households:	0		0		0			

Income Category:

	Owner	Renter	Total	Person
Extremely Low	0	0	0	0
Low Mod	2	0	2	0
Moderate	0	0	0	0
Non Low Moderate	0	0	0	0
Total	2	0	2	0
Percent Low/Mod	100.0%		100.0%	

Annual Accomplishments

Years	Accomplishment Narrative	# Benefitting
2013	Two lots have been purchased for the purpose of building affordable housing.	
2014	Properties located on E. Valley Street were purchased for the total cost of $203,436.43. Six lots were originally purchased. Two will be used as platted when purchased (202 and 204). The remaining 4 will be replatted into 5 resulting in a total of 7 lots for HFHWC use. Funding used was: Act. 55 $130,478.50 and Act. 61 $72,957.93.	
2015	202 Valley Street Georgetown TX (family of 5 moved in November 2015) 204 E Valley Street Georgetown (family of 4 moved in November 2016) Construction on 208 E. Valley Street Georgetown TX is expected to begin February 2017 and 206 E. Valley construction is expected to begin January 2018.	
2016	208 East Valley Georgetown TX (Family of 6 moved in May 2017) 207 East Morrow Georgetown: Family has been selected and house is to be sold to them in June 2018. 209 East Morrow Georgetown: Family to be selected into the homeownership program and house to be sold to them in June 2018.	
2017	Morrow Street properties will be reported in Program Year 2013. Funding from 2012 and 2013 were used to purchase this property. The activity will be closed.	

PGM Year: 2013
Project: 0003 - Habitat for Humanity Land Acquisition
IDIS Activity: 61 - Habitat for Humanity Land Acquisition

Status: Completed 9/30/2018 12:00:00 AM
Location: 2108 N Austin Ave Georgetown, TX 78626-4511

Objective: Provide decent affordable housing
Outcome: Affordability
Matrix Code: Acquisition of Real Property (01)
National Objective: LMH

Initial Funding Date: 07/10/2014

Description:

Land acquisition of property throughout Williamson County for the purpose of developing affordable housing.

Financing

	Fund Type	Grant Year	Grant	Funded Amount	Drawn In Program Year	Drawn Thru Program Year
CDBG	EN	Pre-2015		$140,420.00	$0.00	$0.00
		2012	B12UC480502		$0.00	$72,957.93
		2013	B13UC480502		$0.00	$57,634.54
		2014	B14UC480502		$420.00	$9,827.53
Total	**Total**			**$140,420.00**	**$420.00**	**$140,420.00**

Proposed Accomplishments

Housing Units : 3

Actual Accomplishments

Number assisted:	Owner		Renter		Total		Person	
	Total	Hispanic	Total	Hispanic	Total	Hispanic	Total	Hispanic
White:	3	3	0	0	3	3	0	0
Black/African American:	0	0	0	0	0	0	0	0
Asian:	0	0	0	0	0	0	0	0
American Indian/Alaskan Native:	0	0	0	0	0	0	0	0
Native Hawaiian/Other Pacific Islander:	0	0	0	0	0	0	0	0
American Indian/Alaskan Native & White:	0	0	0	0	0	0	0	0
Asian White:	0	0	0	0	0	0	0	0
Black/African American & White:	0	0	0	0	0	0	0	0
American Indian/Alaskan Native & Black/African American:	0	0	0	0	0	0	0	0
Other multi-racial:	0	0	0	0	0	0	0	0
Asian/Pacific Islander:	0	0	0	0	0	0	0	0
Hispanic:	0	0	0	0	0	0	0	0

Total:	**3**	**3**	**0**	**0**	**3**	**3**	**0**	**0**
Female-headed Households:	3		0		3			

Income Category:

	Owner	Renter	Total	Person
Extremely Low	0	0	0	0
Low Mod	3	0	3	0
Moderate	0	0	0	0
Non Low Moderate	0	0	0	0
Total	3	0	3	0
Percent Low/Mod	100.0%		100.0%	

Annual Accomplishments

Years	Accomplishment Narrative	# Benefitting
2013	One lot has been purchased for the purpose of building affordable housing.	
2014	Properties located on E. Valley Street were purchased for the total cost of $203,436.43. Six lots were originally purchased. Two will be used as platted when purchased (202 and 204). The remaining 4 will be replatted into 5 resulting in a total of 7 lots for HFHWC use. Funding used was: Act. 55 $130,478.50 and Act. 61 $72,957.93.	
2015	Construction on home located on 609 Twin Oaks Trail Cedar Park is expected to begin September 2017 and be completed January 2018.	
2016	609 Twin Oak Trail Cedar Park: Family has been selected and house is to be sold to them in June 2018. 206 East Valley Georgetown: Family to be selected into the homeownership program and house to be sold to them in June 2018. 207 East Morrow Georgetown: Family has been selected and house is to be sold to them in June 2018. 209 East Morrow Georgetown: Family to be selected into the homeownership program and house to be sold to them in June 2018.	
2017	206 Valley Drive Georgetown TX (Family of 3 moved in August 2018) 207 E Morrow Georgetown TX (Family of 4 moved in June 2018) 209 E Morrow Georgetown TX (Family of 5 moved in October 2018)	

PGM Year: 2013
Project: 0004 - Jarrell Sewer FY13
IDIS Activity: 62 - Jarrell Sewer Project Double Creek

Status: Completed 12/31/2017 12:00:00 AM
Location: 1633 County Road 305 Jarrell, TX 76537-1163

Objective: Create suitable living environments
Outcome: Sustainability
Matrix Code: Water/Sewer Improvements (03J)
National Objective: LMA

Initial Funding Date: 07/10/2014

Description:

Installation of a packaged lift station and approximately 4,000 linear feet of 2-inch force main pipe.
The project will also include approximately 200 linear feet of 6-inch gravity wastewater pipe, two (2) manholes, two (2) wastewater services to existing homes, and all associated incidentals required for construction.

Financing

	Fund Type	Grant Year	Grant	Funded Amount	Drawn In Program Year	Drawn Thru Program Year
CDBG	EN	Pre-2015		$523,550.00	$0.00	$0.00
		2012	B12UC480502		$0.00	$28,500.00
		2013	B13UC480502		$0.00	$283,406.40
		2014	B14UC480502		$0.00	$211,643.60
		2015	B15UC480502	$226,537.00	$0.00	$226,537.00
		2016	B16UC480502	$109,507.65	$80,680.00	$109,507.65
Total	**Total**			**$859,594.65**	**$80,680.00**	**$859,594.65**

Proposed Accomplishments

People (General) : 1,921
Total Population in Service Area: 1,973
Census Tract Percent Low / Mod: 47.70

Annual Accomplishments

Years	Accomplishment Narrative	# Benefitting
2013	Project surveying is complete. Engineering is in progress. Environmental clearance is underway and release of funds is expected in November-December 2014. Anticipated project advertisement to occur December, 2014.	
2014	Survey, engineering and planning and environmental review of project is complete. Project is underway. This is a multi-year funded project.	
2015	The portion of the project along Double Creek Drive and Double Creek Spur is approaching completion. The portion of the project along CR305 was advertised October 2016 and had the bid opening on November 8, 2016. Construction expected to begin November-December 2016.	
2016	Preparing the roadway for final asphalt course. December 2017 - Final asphalt and cleanup. The City of Jarrell has completed and paid for 31 household connections.	

Years	Accomplishment Narrative	# Benefitting
2017	Installation of approximately 1700 linear feet of 6 inch gravity wastewater pipe, four manholes, 23 wastewater service connections and all associated incidentals required for construction. Installation of approximately 1250 linear feet of 8 inch gravity wastewater pipe, four manholes, 3 wastewater service connections and all associated incidentals required for construction. Project is complete.	

PGM Year: 2014
Project: 0001 - City of Taylor Street Rehabilitation Project
IDIS Activity: 68 - Taylor Street Rehab Project

Status: Completed 8/29/2017 12:00:00 AM
Location: 400 Porter St Taylor, TX 76574-3600

Objective: Create suitable living environments
Outcome: Sustainability
Matrix Code: Water/Sewer Improvements (03J)
National Objective: LMA

Initial Funding Date: 06/09/2015

Description:

7920 square yards of street reconstruction on 4th street from Sloan to Howard 1100 linear feet of 8 inch wastewater main and 3180 linear feet of 8 inch water main, 10 manholes and 8 fire hydrants, trench safety and associated services, erosion controls, barricades, valves and fittings.

Financing

	Fund Type	Grant Year	Grant	Funded Amount	Drawn In Program Year	Drawn Thru Program Year
CDBG	EN	Pre-2015		$350,000.00	$0.00	$0.00
		2014	B14UC480502		$0.00	$350,000.00
		2015	B15UC480502	$350,000.00	$154,181.95	$350,000.00
Total	**Total**			**$700,000.00**	**$154,181.95**	**$700,000.00**

Proposed Accomplishments

People (General) : 6,329
Total Population in Service Area: 5,725
Census Tract Percent Low / Mod: 73.19

Annual Accomplishments

Years	Accomplishment Narrative	# Benefitting
2014	This project is a multi-year funded projected. Engineering, planning and environmental reviews are being conducted.	
2015	Construction contact will be awarded December 2016. Construction is expected to begin in January 2017 and be completed in approximately 120 days.	
2016	7920 square yards of street reconstruction on 4th street from Sloan to Howard 1100 linear feet of 8 inch wastewater main and 3180 linear feet of 8 inch water main, 10 manholes and 8 fire hydrants, trench safety and associated services, erosion controls, barricades, valves and fittings.	

PGM Year: 2014
Project: 0005 - City of Granger Drainage Improvements Project
IDIS Activity: 70 - Granger Drainage Improvements

Status: Completed 3/2/2018 12:00:00 AM
Location: PO Box 367 Granger, TX 76530-0367

Objective: Create suitable living environments
Outcome: Sustainability
Matrix Code: Flood Drainage Improvements (03I)
National Objective: LMA

Initial Funding Date: 08/19/2015

Description:

Demolition of approximately 1200 square yards of roadway, three CMP drainage pipes and associated structures. Construction of a new creek crossing to provide access to the Granger ISD campus.

Financing

	Fund Type	Grant Year	Grant	Funded Amount	Drawn In Program Year	Drawn Thru Program Year
CDBG	EN	Pre-2015		$54,400.00	$0.00	$0.00
		2013	B13UC480502		$0.00	$24,465.00
		2014	B14UC480502		$0.00	$29,935.00
		2015	B15UC480502	$278,300.00	$146,275.00	$278,300.00
		2016	B16UC480502	$37,339.00	$37,339.00	$37,339.00
Total	**Total**			**$370,039.00**	**$183,614.00**	**$370,039.00**

Proposed Accomplishments

Public Facilities : 1,299
Total Population in Service Area: 1,495
Census Tract Percent Low / Mod: 49.83

Annual Accomplishments

Years	Accomplishment Narrative	# Benefitting
2014	Engineering, planning and environmental review are underway. This is a multi-year project. The project has been awarded FY15 funding to complete the project.	
2015	Granger project funded in 2014 and 2015 will be advertised in November 2016. Construction is anticipated to begin in December 2016.	
2016	A 5x10 box culverts have been installed, and the backfill is being placed and compacted. Project completion is anticipated for December 2017 and will include complete pavement/sidewalk, project cleanup.	
2017	Demolition of approximately 1200 square yards of roadway, three CMP drainage pipes and associated structures. Construction of a new creek crossing to provide access to the Granger ISD campus. Project is complete.	

PGM Year: 2014
Project: 0007 - Williamson County Crisis Center/Hope Alliance
IDIS Activity: 71 - Williamson County Crisis Center/Hope Alliance

Status: Completed 5/4/2018 12:00:00 AM
Location: Address Suppressed

Objective: Create suitable living environments
Outcome: Availability/accessibility
Matrix Code: Services for victims of domestic violence, dating violence, sexual assault or stalking (05G)
National Objective: LMC

Initial Funding Date: 08/19/2015

Description:

Rehab of emergency shelter.
Project will be completed in conjunction with the City of Round Rock CDBG.
Project consists of replacing 5,500 square feet of flooring; replacing 27 windows and one sliding glass door; rehab kitchen, replacing countertops, cabinetry, appliances and vent hood; install attic insulation; replace closet doors and shelving in bedrooms, pantry and play areas.
Williamson County funding will be utilized for materials and attic insulation.

Financing

	Fund Type	Grant Year	Grant	Funded Amount	Drawn In Program Year	Drawn Thru Program Year
CDBG	EN	Pre-2015		$20,000.00	$0.00	$0.00
		2014	B14UC480502		$20,000.00	$20,000.00
		2015	B15UC480502	$20,000.00	$20,000.00	$20,000.00
Total	**Total**			**$40,000.00**	**$40,000.00**	**$40,000.00**

Proposed Accomplishments

People (General) : 400

Actual Accomplishments

Number assisted:	Owner		Renter		Total		Person	
	Total	Hispanic	Total	Hispanic	Total	Hispanic	Total	Hispanic
White:	0	0	0	0	0	0	197	62
Black/African American:	0	0	0	0	0	0	86	0
Asian:	0	0	0	0	0	0	0	0
American Indian/Alaskan Native:	0	0	0	0	0	0	0	0
Native Hawaiian/Other Pacific Islander:	0	0	0	0	0	0	0	0
American Indian/Alaskan Native & White:	0	0	0	0	0	0	0	0
Asian White:	0	0	0	0	0	0	0	0
Black/African American & White:	0	0	0	0	0	0	0	0
American Indian/Alaskan Native & Black/African American:	0	0	0	0	0	0	0	0
Other multi-racial:	0	0	0	0	0	0	36	0
Asian/Pacific Islander:	0	0	0	0	0	0	0	0

Hispanic:	0	0	0	0	0	0	0	0
Total:	**0**	**0**	**0**	**0**	**0**	**0**	**319**	**62**
Female-headed Households:	0		0		0			

Income Category:

	Owner	Renter	Total	Person
Extremely Low	0	0	0	0
Low Mod	0	0	0	319
Moderate	0	0	0	0
Non Low Moderate	0	0	0	0
Total	0	0	0	319
Percent Low/Mod				100.0%

Annual Accomplishments

Years	Accomplishment Narrative	# Benefitting
2014	The project is in the planning stages. Funding will be combined with FY15 funding in order to complete project. Crisis Center still operates as the funding is for rehab of the shelter.	
2015	On October 25, 2016, Hope Alliance held a meeting with Architect to go over site plans. At the meeting changes were recommended to the plan. Hope Alliance will provide the updated plan to City of Round Rock (lead agency). The architect anticipates planning and construction to take approximately one year.	
2016	Architectural services were contracted Code and environmental needs study completed Asbestos testing has been completed and report received Additional private funds have been secured to fund the expanded scope of work, as identified in the code study, including significant ADA compliance needs On August 17, 2017, final architectural drawings were approved	
2017	Shelter has been renovated to include ADA accessible requirements, updated windows, insulation, flooring, kitchen and bathrooms and all other local government building requirements.	

PGM Year: 2016
Project: 0007 - Program Administration
IDIS Activity: 73 - Program Administration 2016

Status: Completed 12/28/2017 12:00:00 AM
Location: ,

Objective:
Outcome:
Matrix Code: General Program Administration (21A)
National Objective:

Initial Funding Date: 12/27/2016

Description:

Program Administration

Financing

	Fund Type	Grant Year	Grant	Funded Amount	Drawn In Program Year	Drawn Thru Program Year
CDBG	EN	2016	B16UC480502	$124,157.00	$21,599.59	$124,157.00
Total	**Total**			**$124,157.00**	**$21,599.59**	**$124,157.00**

Proposed Accomplishments

Actual Accomplishments

Number assisted:	Owner		Renter		Total		Person	
	Total	Hispanic	Total	Hispanic	Total	Hispanic	Total	Hispanic
White:					0	0		
Black/African American:					0	0		
Asian:					0	0		
American Indian/Alaskan Native:					0	0		
Native Hawaiian/Other Pacific Islander:					0	0		
American Indian/Alaskan Native & White:					0	0		
Asian White:					0	0		
Black/African American & White:					0	0		
American Indian/Alaskan Native & Black/African American:					0	0		
Other multi-racial:					0	0		
Asian/Pacific Islander:					0	0		
Hispanic:					0	0		
Total:	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Female-headed Households:					0			

Income Category:

	Owner	Renter	Total	Person

Extremely Low			0	
Low Mod			0	
Moderate			0	
Non Low Moderate			0	
Total	0	0	0	0
Percent Low/Mod				

Annual Accomplishments

No data returned for this view. This might be because the applied filter excludes all data.

PGM Year: 2014
Project: 0008 - Habitat for Humanity of Williamson County
IDIS Activity: 74 - Habitat for Humanity Land Acquisition 1207 and 1305 Frink Street

Status: Open
Location: 2108 N Austin Ave Georgetown, TX 78626-4511

Objective: Provide decent affordable housing
Outcome: Affordability
Matrix Code: Acquisition of Real Property (01)
National Objective: LMH

Initial Funding Date: 08/01/2017

Description:

Land acquisition of property located at 1207 Frink Street and 1305 Frink Street in Taylor TX.
For the purpose of building affordable housing.

Financing

	Fund Type	Grant Year	Grant	Funded Amount	Drawn In Program Year	Drawn Thru Program Year
CDBG	EN	Pre-2015		$39,178.51	$0.00	$0.00
		2014	B14UC480502		$0.00	$39,178.51
Total	**Total**			**$39,178.51**	**$0.00**	**$39,178.51**

Proposed Accomplishments

Housing Units : 2

Actual Accomplishments

Number assisted:	Owner		Renter		Total		Person	
	Total	Hispanic	Total	Hispanic	Total	Hispanic	Total	Hispanic
White:	0	0	0	0	0	0		0
Black/African American:	0	0	0	0	0	0	0	0
Asian:	0	0	0	0	0	0	0	0
American Indian/Alaskan Native:	0	0	0	0	0	0	0	0
Native Hawaiian/Other Pacific Islander:	0	0	0	0	0	0	0	0
American Indian/Alaskan Native & White:	0	0	0	0	0	0	0	0
Asian White:	0	0	0	0	0	0	0	0
Black/African American & White:	0	0	0	0	0	0	0	0
American Indian/Alaskan Native & Black/African American:	0	0	0	0	0	0	0	0
Other multi-racial:	0	0	0	0	0	0	0	0
Asian/Pacific Islander:	0	0	0	0	0	0	0	0
Hispanic:	0	0	0	0	0	0	0	0
Total:	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Female-headed Households:	0	0	0

Income Category:

	Owner	Renter	Total	Person
Extremely Low	0	0	0	0
Low Mod	0	0	0	0
Moderate	0	0	0	0
Non Low Moderate	0	0	0	0
Total	0	0	0	0
Percent Low/Mod				

Annual Accomplishments

Years	Accomplishment Narrative	# Benefitting
2016	Habitat will conduct future homeowner selection process March-June 2018 Building is anticipated to begin in late fall/early winter 2018 on both houses with houses being sold to families in June 2019.	
2017	Purchase of property at 1207 and 1305 Frink Street in Taylor TX. Property at 1207 was subdivided into two lots (1205 and 1207). A duplex will be built on 1205 Frink. Anticipated start date for 1205 Frink is July 2019 and for 1207 Frink is September 2019. Construction to begin on 1305 Frink in December 2018.	

PGM Year: 2016
Project: 0005 - Granger Sewer Project
IDIS Activity: 75 - Granger Sewer FY16

Status: Completed 7/2/2018 12:00:00 AM
Location: PO Box 367 Granger, TX 76530-0367

Objective: Create suitable living environments
Outcome: Availability/accessibility
Matrix Code: Water/Sewer Improvements (03J)
National Objective: LMA

Initial Funding Date: 08/01/2017

Description:

Replace the existing City of Granger lift station with a new package lift station.
The existing lift station is located approximately 150 feet north of the intersection of E.
Fox Street and S.
Jackson Street.
The proposed lift station will pump the wastewater flows to the existing 6-inch gravity collection located at the intersection of E.
Fox Street and S.
Jackson Street, through approximately 160 feet of 2-inch PVC force main.

Financing

	Fund Type	Grant Year	Grant	Funded Amount	Drawn In Program Year	Drawn Thru Program Year
CDBG	EN	2016	B16UC480502	$287,498.07	$256,698.07	$287,498.07
Total	**Total**			**$287,498.07**	**$256,698.07**	**$287,498.07**

Proposed Accomplishments

People (General) : 878
Total Population in Service Area: 1,495
Census Tract Percent Low / Mod: 49.83

Annual Accomplishments

Years	Accomplishment Narrative	# Benefitting
2016	The lift station wetwell has been installed, and the new gravity line and forcemain have been installed. December 2017 - Final Cleanup and testing.	
2017	Replacement of existing lift station, 750 linear feet of 2-inch force main pipe, 6-inch gravity PVC pipe, two manholes and associated project incidentals. The lift station wetwell has been installed, and the new gravity line and forcemain have been installed. The project is complete.	

PGM Year: 2016
Project: 0004 - Georgetown Sidewalk Project
IDIS Activity: 76 - Georgetown 2016 Sidewalk

Status: Completed 6/12/2018 12:00:00 AM
Location: PO Box 409 Georgetown, TX 78627-0409

Objective: Create suitable living environments
Outcome: Availability/accessibility
Matrix Code: Sidewalks (03L)
National Objective: LMA

Initial Funding Date: 11/07/2017

Description:

Construction of 1115 feet of 5' sidewalk, 120 feet of 15' driveways and 6 handicapped ramps on the east side of Scenic Drive from 6th Street to 10th Street.
Construction of 240 feet of 5' sidewalk and one handicapped ramp on the west side of Scenic Drive from 7th Street to 8th Street.
Construction of 405 feet of 5' sidewalk, 102 feet of 15' driveways and 3 handicapped ramps on the south side of 6th Street from Scenic Drive to MLK Jr Street.
The work will take place in Georgetown, TX.

Financing

	Fund Type	Grant Year	Grant	Funded Amount	Drawn In Program Year	Drawn Thru Program Year
CDBG	EN	2016	B16UC480502	$135,500.00	$118,040.00	$135,500.00
Total	**Total**			**$135,500.00**	**$118,040.00**	**$135,500.00**

Proposed Accomplishments

People (General) : 785
Total Population in Service Area: 1,305
Census Tract Percent Low / Mod: 60.15

Annual Accomplishments

Years	Accomplishment Narrative	# Benefitting
2016	Project has been successfully advertised. It was approved by Georgetown Transportation Board on 11/10/17. Georgetown City Council will consider and act on this item on 11/28/17. Once approved, contracts will be executed and a Notice To Proceed will be issued at the Pre-construction meeting.	
2017	Construction of 660 feet of 5' sidewalk, 400 feet of 15' driveways and 5 handicapped ramps on the east side of Scenic Drive from 8th Street to 10th Street. Construction of 255 feet of 5' sidewalk, 10 feet of driveways and one handicapped ramp on the west side of Scenic Drive from 7th Street to 8th Street. Construction of 485 feet of 6' sidewalk, 20 feet of driveways and 5 handicapped ramps on the south side of 6th Street from across Scenic Drive to MLK Jr Street. The project is complete.	

PGM Year: 2016
Project: 0002 - Georgetown Housing Authority Rehab Project
IDIS Activity: 77 - Georgetown Housing Authority 2016

Status: Completed 12/15/2017 12:00:00 AM
Location: PO Box 60 Georgetown, TX 78627-0060

Objective: Provide decent affordable housing
Outcome: Sustainability
Matrix Code: Public Housing Modernization (14C)
National Objective: LMH

Initial Funding Date: 11/21/2017

Description:

Rehab of an estimated 32 total units to include heating and cooling systems, electrical upgrade and asbestos abatement, as required.

Financing

	Fund Type	Grant Year	Grant	Funded Amount	Drawn In Program Year	Drawn Thru Program Year
CDBG	EN	2016	B16UC480502	$166,610.00	$166,610.00	$166,610.00
Total	**Total**			**$166,610.00**	**$166,610.00**	**$166,610.00**

Proposed Accomplishments

Housing Units : 32

Actual Accomplishments

Number assisted:	Owner		Renter		Total		Person	
	Total	Hispanic	Total	Hispanic	Total	Hispanic	Total	Hispanic
White:	0	0	24	2	24	2	0	0
Black/African American:	0	0	0	0	0	0	0	0
Asian:	0	0	0	0	0	0	0	0
American Indian/Alaskan Native:	0	0	0	0	0	0	0	0
Native Hawaiian/Other Pacific Islander:	0	0	2	0	2	0	0	0
American Indian/Alaskan Native & White:	0	0	0	0	0	0	0	0
Asian White:	0	0	0	0	0	0	0	0
Black/African American & White:	0	0	0	0	0	0	0	0
American Indian/Alaskan Native & Black/African American:	0	0	0	0	0	0	0	0
Other multi-racial:	0	0	0	0	0	0	0	0
Asian/Pacific Islander:	0	0	0	0	0	0	0	0
Hispanic:	0	0	0	0	0	0	0	0
Total:	**0**	**0**	**26**	**2**	**26**	**2**	**0**	**0**
Female-headed Households:	0		0		0			

Income Category:

	Owner	Renter	Total	Person
Extremely Low	0	26	26	0
Low Mod	0	0	0	0
Moderate	0	0	0	0
Non Low Moderate	0	0	0	0
Total	0	26	26	0
Percent Low/Mod		100.0%	100.0%	

Annual Accomplishments

Years	Accomplishment Narrative	# Benefitting
2016	Project is 76% complete to include work on carpentry, water heaters, New HVAC, ductwork, and electrical.	
2017	Rehab of an estimated 28 total units to include heating and cooling systems, electrical upgrade and asbestos abatement, as required.	

PGM Year: 2017
Project: 0007 - Program Administration
IDIS Activity: 78 - Program Administration 2017

Status: Open
Location: ,

Objective:
Outcome:
Matrix Code: General Program Administration (21A)
National Objective:

Initial Funding Date: 12/28/2017

Description:

Program Administration

Financing

	Fund Type	Grant Year	Grant	Funded Amount	Drawn In Program Year	Drawn Thru Program Year
CDBG	EN	2017	B17UC480502	$256,640.00	$121,226.01	$121,226.01
Total	**Total**			**$256,640.00**	**$121,226.01**	**$121,226.01**

Proposed Accomplishments

Actual Accomplishments

Number assisted:	Owner		Renter		Total		Person	
	Total	Hispanic	Total	Hispanic	Total	Hispanic	Total	Hispanic
White:					0	0		
Black/African American:					0	0		
Asian:					0	0		
American Indian/Alaskan Native:					0	0		
Native Hawaiian/Other Pacific Islander:					0	0		
American Indian/Alaskan Native & White:					0	0		
Asian White:					0	0		
Black/African American & White:					0	0		
American Indian/Alaskan Native & Black/African American:					0	0		
Other multi-racial:					0	0		
Asian/Pacific Islander:					0	0		
Hispanic:					0	0		
Total:	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Female-headed Households:					0			

Income Category:

	Owner	Renter	Total	Person

Extremely Low			0	
Low Mod			0	
Moderate			0	
Non Low Moderate			0	
Total	0	0	0	0
Percent Low/Mod				

Annual Accomplishments

No data returned for this view. This might be because the applied filter excludes all data.

PGM Year: 2016
Project: 0003 - Taylor Housing Authority Home Ownership Program
IDIS Activity: 79 - Taylor Housing Authority Home Ownership Program

Status: Open
Location: 311 E 7th St Apt C Taylor, TX 76574-3222

Objective: Provide decent affordable housing
Outcome: Affordability
Matrix Code: Homeownership Assistance-excluding Housing Counseling under 24 CFR 5.100 (13B)
National Objective: LMH

Initial Funding Date: 02/07/2018

Description:

Program will provide pre and post purchase counseling and homebuyer assistance to income qualified individuals and families.

Financing

	Fund Type	Grant Year	Grant	Funded Amount	Drawn In Program Year	Drawn Thru Program Year
CDBG	EN	2016	B16UC480502	$100,000.00	$10,000.00	$10,000.00
Total	**Total**			**$100,000.00**	**$10,000.00**	**$10,000.00**

Proposed Accomplishments

Households (General) : 10

Actual Accomplishments

Number assisted:	Owner		Renter		Total		Person	
	Total	Hispanic	Total	Hispanic	Total	Hispanic	Total	Hispanic
White:	1	0	0	0	1	0	0	0
Black/African American:	0	0	0	0	0	0	0	0
Asian:	0	0	0	0	0	0	0	0
American Indian/Alaskan Native:	0	0	0	0	0	0	0	0
Native Hawaiian/Other Pacific Islander:	0	0	0	0	0	0	0	0
American Indian/Alaskan Native & White:	0	0	0	0	0	0	0	0
Asian White:	0	0	0	0	0	0	0	0
Black/African American & White:	0	0	0	0	0	0	0	0
American Indian/Alaskan Native & Black/African American:	0	0	0	0	0	0	0	0
Other multi-racial:	0	0	0	0	0	0	0	0
Asian/Pacific Islander:	0	0	0	0	0	0	0	0
Hispanic:	0	0	0	0	0	0	0	0
Total:	**1**	**0**	**0**	**0**	**1**	**0**	**0**	**0**
Female-headed Households:	0		0		0			

Income Category:	Owner	Renter	Total	Person
Extremely Low	0	0	0	0
Low Mod	1	0	1	0
Moderate	0	0	0	0
Non Low Moderate	0	0	0	0
Total	1	0	1	0
Percent Low/Mod	100.0%		100.0%	

Annual Accomplishments

Years	Accomplishment Narrative	# Benefitting
2017	Down payment assistance was provided to low income family. Home located at 315 Lizzie Street, Taylor TX.	

PGM Year: 2017
Project: 0004 - City of Granger Sewer Project
IDIS Activity: 80 - FY17 Granger Sewer Project

Status: Open
Location: PO Box 367 Granger, TX 76530-0367

Objective: Create suitable living environments
Outcome: Availability/accessibility
Matrix Code: Water/Sewer Improvements (03J)
National Objective: LMA

Initial Funding Date: 11/14/2018

Description:

Replacement of existing lift station located on Roswell Avenue with a prepackaged lift station.
Project will include replacement of forcemain and gravity line relocation, and associated project incidentals.

Financing

	Fund Type	Grant Year	Grant	Funded Amount	Drawn In Program Year	Drawn Thru Program Year
CDBG	EN	2017	B17UC480502	$294,350.00	$2,250.00	$2,250.00
Total	**Total**			**$294,350.00**	**$2,250.00**	**$2,250.00**

Proposed Accomplishments

People (General) : 1,245
Total Population in Service Area: 1,495
Census Tract Percent Low / Mod: 49.83

Annual Accomplishments

Years	Accomplishment Narrative	# Benefitting
2017	The project will be advertised in December 2018, will go for bid in January 2019 and will take approximately six months to complete.	

PGM Year: 2017
Project: 0002 - City of Jarrell Water Improvements
IDIS Activity: 81 - Jarrell Water Improvements 2017

Status: Open
Location: 161 Town Center Blvd Jarrell, TX 76537-4003

Objective: Create suitable living environments
Outcome: Availability/accessibility
Matrix Code: Water/Sewer Improvements (03J)
National Objective: LMA

Initial Funding Date: 11/14/2018

Description:

Extension of the 12" waterline that was installed in the 2012 CDBG funding cycle.
Construction would be on North 5th Street (north of Avenue East), on East Avenue C from North 5th Street to North 10th Street, on North 10th Street from East Avenue C to West Avenue A, and on West Avenue A from North 10th Street to North 8th Street.
This portion of the line will be approximately 2000 feet.

Financing

	Fund Type	Grant Year	Grant	Funded Amount	Drawn In Program Year	Drawn Thru Program Year
CDBG	EN	2017	B17UC480502	$215,850.00	$7,400.00	$7,400.00
Total	**Total**			**$215,850.00**	**$7,400.00**	**$7,400.00**

Proposed Accomplishments

People (General) : 1,000
Total Population in Service Area: 1,000
Census Tract Percent Low / Mod: 56.00

Annual Accomplishments

Years	Accomplishment Narrative	# Benefitting
2017	Engineering is underway. Project was amended on June 5, 2018 from a wastewater project to a water project.	

Total Funded Amount:	**$3,870,098.63**
Total Drawn Thru Program Year:	**$3,144,134.64**
Total Drawn In Program Year:	**$1,162,939.62**

U.S. Department of Housing and Urban Development
Office of Community Planning and Development
Integrated Disbursement and Information System
Program Income Details by Fiscal Year and Program
WILLIAMSON COUNTY,TX

Report for Program:CDBG
*Data Only Provided for Time Period Queried:01-01-1900 to 12-04-2018

Program Year	Program	Associated Grant Number	Fund Type	Estimated Income for Year	Transaction	Voucher #	Voucher Created	Voucher Type	IDIS Proj. ID	IDIS Actv. ID	Matrix Code	Receipted/Drawn Amount
2015	CDBG	B15UC480502	PI	0.00								
					RECEIPTS							
						5180779001	12-03-15		6	35	01	27,500.00
					DRAWS							
						5873655003	12-03-15	PY	2	60	03J	27,500.00
										PI Receipts		27,500.00
										PI Draws		27,500.00
										PI Balance		0.00
2015	**CDBG**											
											Total CDBG Receipts*:	**27,500.00**
											Total CDBG Draws against Receipts*:	**27,500.00**
											Total CDBG Receipt Fund Balance*:	**0.00**

WILLIAMSON COUNTY

Count of CDBG Activities with Disbursements by Activity Group & Matrix Code

Activity Group	Activity Category	Open Count	Open Activities Disbursed	Completed Count	Completed Activities Disbursed	Program Year Count	Total Activities Disbursed
Acquisition	Acquisition of Real Property (01)	1	$0.00	2	$640.00	3	$640.00
	Total Acquisition	**1**	**$0.00**	**2**	**$640.00**	**3**	**$640.00**
Housing	Homeownership Assistance-excluding Housing Counseling under 24 CFR 5.100 (13B)	1	$10,000.00	0	$0.00	1	$10,000.00
	Public Housing Modernization (14C)	0	$0.00	1	$166,610.00	1	$166,610.00
	Total Housing	**1**	**$10,000.00**	**1**	**$166,610.00**	**2**	**$176,610.00**
Public Facilities and Improvements	Flood Drainage Improvements (03I)	0	$0.00	1	$183,614.00	1	$183,614.00
	Water/Sewer Improvements (03J)	2	$9,650.00	3	$491,560.02	5	$501,210.02
	Sidewalks (03L)	0	$0.00	1	$118,040.00	1	$118,040.00
	Total Public Facilities and Improvements	**2**	**$9,650.00**	**5**	**$793,214.02**	**7**	**$802,864.02**
Public Services	Services for victims of domestic violence, dating violence, sexual assault or stalking (05G)	0	$0.00	1	$40,000.00	1	$40,000.00
	Total Public Services	**0**	**$0.00**	**1**	**$40,000.00**	**1**	**$40,000.00**
General Administration and Planning	General Program Administration (21A)	1	$121,226.01	1	$21,599.59	2	$142,825.60
	Total General Administration and Planning	**1**	**$121,226.01**	**1**	**$21,599.59**	**2**	**$142,825.60**
Grand Total		**5**	**$140,876.01**	**10**	**$1,022,063.61**	**15**	**$1,162,939.62**

WILLIAMSON COUNTY

CDBG Sum of Actual Accomplishments by Activity Group and Accomplishment Type

Activity Group	Matrix Code	Accomplishment Type	Open Count	Completed Count	Program Year Totals
Acquisition	Acquisition of Real Property (01)	Housing Units	0	6	6
	Total Acquisition		**0**	**6**	**6**
Housing	Homeownership Assistance-excluding Housing Counseling under 24 CFR 5.100 (13B)	Households	1	0	1
	Public Housing Modernization (14C)	Housing Units	0	26	26
	Total Housing		**1**	**26**	**27**
Public Facilities and Improvements	Flood Drainage Improvements (03I)	Public Facilities	0	5,980	5,980
	Water/Sewer Improvements (03J)	Persons	2,495	30,030	32,525
	Sidewalks (03L)	Persons	0	2,610	2,610
	Total Public Facilities and Improvements		**2,495**	**38,620**	**41,115**
Public Services	Services for victims of domestic violence, dating violence, sexual assault or stalking (05G)	Persons	0	319	319
	Total Public Services		**0**	**319**	**319**
Grand Total			**2,496**	**38,971**	**41,467**

WILLIAMSON COUNTY

CDBG Beneficiaries by Racial / Ethnic Category

Housing-Non Housing	Race	Total Persons	Total Hispanic Persons	Total Households	Total Hispanic Households
Housing	White	0	0	25	2
	Black/African American	0	0	0	0
	Native Hawaiian/Other Pacific Islander	0	0	2	0
	Total Housing	**0**	**0**	**27**	**2**
Non Housing	White	197	62	6	5
	Black/African American	86	0	0	0
	Other multi-racial	36	0	0	0
	Total Non Housing	**319**	**62**	**6**	**5**
Grand Total	White	197	62	31	7
	Black/African American	86	0	0	0
	Native Hawaiian/Other Pacific Islander	0	0	2	0
	Other multi-racial	36	0	0	0
	Total Grand Total	**319**	**62**	**33**	**7**

WILLIAMSON COUNTY

CDBG Beneficiaries by Income Category

	Income Levels	Owner Occupied	Renter Occupied	Persons
Housing	Extremely Low (<=30%)	0	26	0
	Low (>30% and <=50%)	1	0	0
	Mod (>50% and <=80%)	0	0	0
	Total Low-Mod	1	26	0
	Non Low-Mod (>80%)	0	0	0
	Total Beneficiaries	1	26	0
Non Housing	Extremely Low (<=30%)	0	0	0
	Low (>30% and <=50%)	3	0	319
	Mod (>50% and <=80%)	0	0	0
	Total Low-Mod	3	0	319
	Non Low-Mod (>80%)	0	0	0
	Total Beneficiaries	3	0	319

2017 CAPER Publication

Williamson County [RE]
710 Main Street
Georgetown, TX 78626
512-943-3757

NOTICE OF PUBLIC POSTING AND PUBLIC HEARING FOR
WILLIAMSON COUNTY/HUD CDBG GRANT
CONSOLIDATED ANNUAL PERFORMANCE AND EVALUATION REPORT (CAPER)

Williamson County was awarded a Community Development Block Grant (CDBG) FY17 (October 2017-September 2018) funding allocation of $1,283,203 to successfully support community development and affordable housing efforts for low and moderate income areas throughout the County. On December 11, 2018 Williamson County Commissioner's Court will review and will consider approving the 2017 Consolidated Annual Performance Evaluation Report (CAPER). Upon approval by Commissioners Court, the document will be made available for public comment.

A public hearing will be held by the Williamson County CDBG office on Tuesday, December 18, 2018 at 5:00pm at the Williamson County Courthouse located at 710 Main Street, Georgetown, TX 78626. The purpose of the hearing is to receive public comments concerning the 2017 CAPER. Please use the 8th Street (south) entrance to the Courthouse.

In accordance with HUD regulations, the County encourages public participation to review and comment on the CAPER. Direct written comments by December 28, 2018 to the following address:
Honorable Dan Gattis, County Judge
710 Main Street
Georgetown, TX 78626
The report will be available for review from December 14, 2018 – December 28, 2018 at the following locations:
Williamson County Courthouse and Website at www.wilco.org
Georgetown Housing Authority
Jarrell City Hall
Granger City Hall
Granger Housing Authority
Taylor City Hall
Taylor Housing Authority
Cedar Park City Hall
Georgetown City Hall
Leander City Hall
Liberty Hill City Hall
Weir City Hall
Coupland City Hall
Hutto City Hall
Comments received on or before the December 28, 2017 deadline will be considered for inclusion in the final report.

Williamson County also offers, to all non-speaking English persons and upon written request, translated versions of all public documents and public hearing notices. Non-English speaking persons who desire translated public documents or public notices should formally request these items from the Williamson County CDBG Office during normal business hours.

Reasonable accommodations for people with disabilities and for non-English speaking populations will be made upon request and as appropriate. Call 512-943-3757 or write to the address below to request information, documents, records or accommodations.

Williamson County is committed to compliance with the Americans with Disabilities Act (ADA) and Section 504 of the Rehabilitation Act of 1973, as amended. Reasonable modifications and equal access to communications will be provided upon request. Please call 512-943-3757 (voice) or Relay Texas at 1-800-735-2989 (TDD) for assistance.

Dan Gattis, County Judge

Condado de Williamson [RE]
710 Main Street
Georgetown , TX 78626
512-943-3757

AVISO DE LA FIJACIÓN PÚBLICA Y AUDIENCIA PÚBLICA PARA
WILLIAMSON COUNTY / HUD CDBG GRANT
RENDIMIENTO ANUAL CONSOLIDADO Y INFORME DE EVALUACIÓN
(CONSOLIDATED ANNUAL PERFORMANCE AND EVALUATION REPORT-
CAPER)

El Condado de Williamson recibió una Subvención del Bloque para el Desarrollo Comunitario (Community Development Block Grant (CDBG), FY17 (octubre 2017 a septiembre 2018) la asignación de fondos de 1,283,203 dólares para sostener exitosamente el desarrollo de la comunidad y esfuerzos de vivienda razonable para áreas bajas y de ingresos moderados a través del Condado. El 11 de diciembre de 2018, la Corte de Comisionados del Condado de Williamson revisaron el 2017 Rendimiento Anual Consolidado y Informe de Evaluación (Consolidated Annual Performance and Evaluation Report) (CAPER). Una vez aprobado por la Corte de Comisionados, el documento estará disponible para comentarios del público.

Una audiencia pública se llevará a cabo por la oficina de CDBG del Condado de Williamson el martes, 18 de diciembre 2018 a las 5:00 pm en el Palacio de Justicia del Condado de Williamson ubicado en 710 Main Street, Georgetown, TX 78626 . El propósito de la audiencia es para recibir los comentarios del público acerca de CAPER 2017. Por favor, use la entrada Calle Ocho (8th Street) (al sur) del Palacio de Justicia.

De conformidad con las regulaciones de HUD, el Condado fomenta la participación del público a revisar y comentar sobre el CAPER. Enviar los comentarios por escrito en o antes del 28 de diciembre 2018 a la siguiente dirección:

Honorable Dan Gattis , Juez del Condado
710 Main Street
Georgetown , TX 78626

El informe estará disponible para la revisión del 14 diciembre 2018 hasta 28 diciembre 2018 en los siguientes lugares:

Williamson County Courthouse y Sitio Web en www.wilco.org
Georgetown Housing Authority (Autoridad de Vivienda)
Jarrell City Hall
Granger City Hall
Granger Housing Authority

Taylor City Hall
Taylor Housing Authority
Cedar Park City Hall
Georgetown City Hall
Leander City Hall
Liberty Hill City Hall
Weir City Hall
Coupland City Hall
Hutto City Hall

Los comentarios recibidos en o antes del 28 de diciembre 2018 serán consideradas para su inclusión en el informe final.

El Condado de Williamson también ofrece, a todas las personas que no hablen inglés y previa solicitud por escrito, versiones traducidas de todos los documentos públicos y avisos de audiencia pública. Las personas que no hablen inglés que deseen documentos públicos traducidos o avisos públicos deben solicitar estos artículos formalmente en la Oficina de CDBG del Condado de Williamson durante el horario comercial normal.

Se realizarán adaptaciones razonables para personas con discapacidades y para poblaciones que no hablen inglés a pedido y según corresponda. Llame al 512-943-3757 o escriba a la dirección a continuación para solicitar información, documentos, registros o adaptaciones.

El Condado de Williamson se compromete al cumplimiento de la Ley de Americanos con Discapacidades (ADA) y la Sección 504 del Acta de Rehabilitación de 1973, según enmendada. Modificaciones razonables e igual acceso a comunicaciones se puede proporcionar a petición. Por favor llame a 512-943-3757 (voz) o Relay Texas al 1-800-735-2989 (TDD) para obtener ayuda.

Dan Gattis, Juez del Condado

Commissioners Court - Regular Session **32.**

Meeting Date: 12/11/2018

Discuss, consider and take appropriate action on increasing the budget on position control number 1793 by $5,065.39

Submitted For: Jarred Thomas **Submitted By:** Kelly Luna, EMS

Department: Emergency Management

Agenda Category: Regular Agenda Items

Information

Agenda Item

Discuss, consider and take appropriate action on increasing the budget on position control number 1793 by $5,065.39

Background

This position was orginially a grant position, which has been very confusing since its inception due to it spanning fiscal years (FY17 & FY18) and being split between grant funds and general funds. The Court was generous enough to adopt this position as a general fund position for FY19, which we are extremely grateful for because this position plays an instrumental role in identifying and mitigating potential hazards within the County. Due to the complexity of the funding, the timing of the position changes in relation to the Budget Process, and PCN confusion, the funding that was adopted for this position is $5,065.39 short for FY19. The error went unnoticed by Emergency Management, HR, and the Budget Office (initially), until Budget discovered that the adopted budget vs. the current salary would create a shortage in the salary line for the department. The current salary, which carried over from FY18 (minus COLA and merit) was/is within the salary policies and parameters set forth by HR. The department is willing to utilize funding from within its FY19 operating budget to cover the shortage. The department, Budget, and HR have reviewed all that has transpired to determine how we missed this in an effort to catch something like this in the future, but are all in agreement that it was a "perfect storm" of events that lead us to this juncture. It has made us all aware to watch split funded positions in the future and coordinate as a team to ensure that the funding is correct, if and when they are adopted in the general fund budget.

Fiscal Impact

From/To	Acct No.	Description	Amount
From:	0100.0541.004100	Professional Services	$5,000.00
From:	0100.0541.003010	Computer Equiptment < $5,000	$65.39
To:	0100.0541.001100	Salaries	$5,065.39

Attachments

No file(s) attached.

Form Review

Inbox	Reviewed By	Date
County Judge Exec Asst.	Wendy Coco	12/06/2018 10:26 AM
Form Started By: Kelly Luna		Started On: 12/04/2018 11:20 AM
Final Approval Date: 12/06/2018		

Commissioners Court - Regular Session **33.**

Meeting Date: 12/11/2018

911 Communications Position Changes

Submitted For: Dan Gattis **Submitted By:** Rebecca Clemons, County Judge

Department: County Judge

Agenda Category: Regular Agenda Items

Information

Agenda Item

Discuss, consider and take appropriate action on adding an Education Manager position and reclassifying four existing positions to TCO IVs full-time positions in the 911 Communications Department (0581), as previously approved in the FY19 budget.

Background

See attached documentation for proposed position names, position numbers and existing and new compensation amounts.

Fiscal Impact

From/To	Acct No.	Description	Amount

Attachments

ESOC

Form Review

Inbox	Reviewed By	Date
County Judge Exec Asst. (Originator)	Wendy Coco	12/06/2018 10:30 AM
Form Started By: Rebecca Clemons		Started On: 12/06/2018 09:05 AM
Final Approval Date: 12/06/2018		

Department	PCN	Position Title	Current Position Amount	*New Position Amount	From 004998 to 001100:	Change notes	Earliest Oracle Effective Date
911 Communications	0163	Lieutenant	$60,852.62		n/a	Eliminate position 0163 and use funds to create a new position: Education Manager	12/14/2018
911 Communications		Education Manager	$0.00	$60,852.62	n/a	New position: Education Manager (B.30) - using funds from eliminated poistion 0163	12/14/2018
911 Communications	0133	Telecom Ofcr I	$39,554.05	$45,886.76	$6,332.71	Change to title/grade/position funds: Telecomminications Officer IV (B25) - using funds approved in FY19 budget process	12/14/2018
911 Communications	0137	Telecom Ofcr I	$39,554.05	$45,886.76	$6,332.71	Change to title/grade/position funds: Telecomminications Officer IV (B25) - using funds approved in FY19 budget process	12/14/2018
911 Communications	0139	Telecom Ofcr I	$39,554.05	$45,886.76	$6,332.71	Change to title/grade/position funds: Telecomminications Officer IV (B25) - using funds approved in FY19 budget process	12/14/2018
911 Communications	1746	Telecom Ofcr I	$39,554.05	$45,886.76	$6,332.71	Change to title/grade/position funds: Telecomminications Officer IV (B25) - using funds approved in FY19 budget process	12/14/2018

*Amount may vary slightly due to Oracle rounding

Commissioners Court - Regular Session **34.**

Meeting Date: 12/11/2018

Budget Policy Document for FY 19

Submitted By: Ashlie Koenig, Budget Office

Department: Budget Office

Agenda Category: Regular Agenda Items

Information

Agenda Item

Discuss, consider and take appropriate action on the Budget Policy document.

Background

In September of 2018, we placed an updated Budget Policy document on the agenda for Court approval. One section of language referencing "special teams" was removed prior to approval. It was requested that the Budget Office work with Commissioner Covey to revise the proposed language. We have made these changes and are asking for the Court's approval. The revision is on page 6, highlighted in yellow.

Fiscal Impact

From/To	Acct No.	Description	Amount

Attachments

Budget Policy

Form Review

Inbox	Reviewed By	Date
County Judge Exec Asst.	Rebecca Clemons	12/06/2018 02:11 PM
Form Started By: Ashlie Koenig		Started On: 12/06/2018 11:08 AM
Final Approval Date: 12/06/2018		

WILLIAMSON COUNTY
BUDGET POLICY

The stewardship of public funds is one of the greatest responsibilities the Commissioners Court is tasked with. Therefore, the establishment and maintenance of budget policy is critical to ensure County officials protect public interests and promote citizens' confidence in County government…

I. General Policies

1. Williamson County will operate on a fiscal year which begins on October 1st and ends on September 30th.

2. Williamson County will continuously identify areas within the County for evaluation in order to improve efficiency and manage costs.

3. Cost/Benefit studies will be conducted, where appropriate and applicable, on non-recurring and recurring expenditures as well as capital projects.

4. All recurring budget items shall be funded in the general fund or road and bridge fund operating accounts/funds. The aforementioned budget items shall be funded from revenue generated by the annual maintenance and operations general fund and road and bridge fund property tax levy. Recurring expenditures are defined as items that are ongoing in nature or routine. Examples include personnel and related expenses, utilities and/or fuel, etc. Recurring items shall NOT be budgeted for with excess fund balance/cash reserve funds.

5. Approved annual budgets, with amendments as approved by the Commissioners Court, are the management control device utilized by the County. Annual appropriated budgets are adopted for the General, Road and Bridge and Debt Services Funds and lapse at fiscal year end.

6. Each department should make every effort to manage expenditures in a fiscally prudent manner. All programs should be monitored on a regular basis to ensure viability, necessity and efficiency.

7. Proposed expenditure recommendations shall include the following:

    a. General Fund operating and maintenance expenditures
    b. Road and Bridge Fund operating and maintenance expenditures
    c. Debt Service Fund expenditures
    d. Any additional information as requested by the Court

8. Technology requests should increase the efficiency of County government by improving the delivery of service, reducing duplication of data, increasing the accuracy of data, consolidating data entry efforts, reduce the necessity to add staff in future years or be required because of a new statutory requirement.

9. Furniture shall be replaced only when a demonstrated need has been presented and not in conjunction with transitioning into a new building and/or new personnel assuming an existing position in which furniture has previously been provided.

10. In order to maintain efficient and cost-effective services to the citizens of Williamson County, all budget requests are recommended to be prepared from the modified, zero-based budgeting process justifying the proposed expenditures as well as utilizing the most current information and trend analysis.

11. Williamson County seeks to advance economic development within the County. The Court will continuously support efforts to advance economic prosperity of the County when it finds that such efforts are in the best interest of the County and its citizens.

12. The Court at all times will attempt to maintain or lower the present tax rate.

II. Revenue and Transfer Policies

1. Williamson County will establish user charges and fees as permitted by law at a level related to the cost of providing that service to include direct and indirect costs.

2. When necessary, Williamson County will permit increases or decreases in user charges and fees. These charges and fees should be monitored and re-evaluated annually by each department head and/or elected official.

3. The County shall continuously seek public and private grants as well as other outside funding sources.

4. Williamson County allows a department head, appointed/elected official or his/her designee to request line item transfers throughout the fiscal year. Pursuant to Local Government Code Section 111.070, the Commissioners Court may spend County funds only in strict compliance with the budget. The Commissioners Court by order may amend the budget to transfer an amount budgeted for one item to another budgeted item without authorizing an emergency expenditure.

5. Line item transfers between 8000 accounts, merit 001130 and salary lines for the purpose of merit money allocation and re-allocation are initiated by Human

Resources, forwarded to the Budget Office and completed by the Auditor's Office. These transfers will be placed on the agenda as needed for Commissioners Court approval/review.

6. Line item transfers in the amount of $500 or less may be e-mailed directly to the Budget Office and are not required to be placed on the agenda unless:

    a. The transfer is to purchase items requested but not recommended or approved in the budget
    b. To simply increase overall funding in a particular line item

III. Reserve Policies

1. Williamson County will maintain adequate levels of fund balance to mitigate current and future risks, maintain an exceptional bond rating, and for long-term planning.

2. It is imperative that all department heads as well as elected officials continuously review expenditures to ensure fiscal responsibility.

IV. Budget Amendment Policies

1. Pursuant to Local Government Code, Section 111.070 (b), the Commissioners Court may authorize an emergency expenditure as an amendment to the original budget only in case of a grave public necessity to meet an unusual and unforeseen condition that could not have been included in the original budget through the use of reasonably diligent thought and attention.

2. All budget amendments must be placed on the regular agenda for consideration by the Commissioners Court and any amendments creating an increase in budgetary commitment for the next fiscal year shall be specifically noted.

3. The re-appropriation at the beginning of a fiscal year of funds committed under valid purchase orders of the County but unspent by September 30th of the prior fiscal year require a budget amendment from fund balance. These amendments are few in nature and will be made on a case by case basis. These budget amendments have no net effect on spending but simply change the accounting year for expenditures.

V. Capital Improvement Policies

1. Capital improvement projects include major equipment, software purchases as well as construction and remodeling requiring extensive funding.

2. Each department is encouraged to update their capital projects plan for the next five years so the Budget Officer may consolidate these into a five-year Capital Improvement Plan. Departments in a common functional area should cooperate in planning for capital projects affecting the entire function of that particular area. Budgeting and allocation of funds for capital projects will be made on the basis of long-term planning.

3. Capital improvement projects may be paid from current revenues, cash reserves or bonds. Bonds or other forms of debt will normally be used for capital projects when appropriate.

4. The selection of furniture, fabrics, color choices and/or materials used in the construction/remodeling of Williamson County facilities will be made by the Williamson County Facilities Division subject only to the Williamson County Commissioner Court's authority to override or otherwise modify such selection decisions pursuant to the Williamson County Commissioners Court's facilities powers, as is conferred by the Constitution and the laws of the State of Texas. Every effort will be made to maintain a professional appearance and provide uniformity and standardization in Williamson County facilities. Funding, where applicable, for the above-mentioned facility enhancements may reside in the Williamson County Facilities departmental budget.

5. The selection of flooring, paint, lighting, HVAC and electrical facility enhancements in individual/personal offices will be made by the Williamson County Facilities Division subject only to the Williamson County Commissioner Court's authority to override or otherwise modify such selection decisions pursuant to the Williamson County Commissioners Court's facilities powers, as is conferred by the Constitution and the laws of the State of Texas. Every effort will be made to maintain a professional appearance and provide uniformity and standardization in these areas. Funding, where applicable, for the above-mentioned facility enhancements may reside in the Williamson County Facilities departmental budget. All facility changes / structural modifications must have the approval of the Facilities Department.

6. Life cycle replacements, defined as a capital improvement analyzed for life cycle efficiency with a scheduled end of life, will be evaluated for the following:

    - Expected life of the replacement equipment
    - Age of current equipment being replaced
    - Repair dollars spent YTD
    - Issues with current system/equipment

- Cost / Benefit of replacement
- Phase in Approach vs. All at Once Funding
- Cost savings of replacement item
- Recurring costs associated with replacement item
- External resources required to support replacement item to include external agencies, maintenance contract agreements and/or internal departments

VI. Personnel Policies

1. It is the priority of the Court to provide adequate and qualified staffing for offices and departments while ensuring efficiency. Requests for staff should be made only for new programs and/or upon demonstrated increases in service requirements that cannot be met with improved technology or changes in procedures.

2. Positions will only be recommended and approved when a verifiable need is demonstrated. Complete documentation to include any applicable and verifiable statistics, metrics, compliance requirements, job description, etc. should be provided at the time of the request.

3. The Court encourages and supports the allocation of funding to ensure the County's work force is properly trained. It is recommended that all department heads as well as elected officials additionally support reasonable continuing education requests.

4. The Court strives to ensure, where possible and practical, that employee compensation will be competitive with other similarly situated counties and/or local municipalities.

5. The Budget Office will maintain a budget on each position in an effort to identify "excess" funds available for the purpose of recruiting, re-classifications and re-organizations. Position control will be utilized on all salary line items with the exception of line item 001107, Temporary and Seasonal. Monies remaining in a salary line due to a position being vacant may not be used to increase a position's salary/rate of pay but may be used to pay out leave time when a position is vacated.

6. Each year merit money allocation, funding and adoption will be based on salaries as of the last pay period in March with the exception of any Human Resources recommended/adopted salary adjustments (increases or decreases effective for the new fiscal year). These recommended/adopted increases/decreases will be the new basis/salary for merit and COLA allocation. Merit money will be allocated on vacant positions and will be based on the rate of pay on the position when the

vacancy occurred. Merit money will not be allocated on newly created positions. Application of increases will occur in this order: Re-class, COLA and then merit.

7. All newly created positions will be funded at the minimum of the pay grade.

8. Re-classifications will be funded in accordance with current policy.

9. Merit funding (object code 001130) may only be used for merit performance/purpose in accordance with current policy. All merit funding remaining in salary line 001130 will roll forward each fiscal year. Merit funds, once allocated to a position, may not be moved back into the merit line, object code 001130. Merit funding/calculations are based on all filled/unfilled, full-time/part-time position-based slots. New positions are excluded from merit funding but allowed up to a 5% merit increase after 90 days.

10. Equipment/Supplies requested in the budget in conjunction with special teams/operations will not be funded from the general fund budget unless expressly authorized/approved by the Commissioners Court. Likewise, line item transfer requests for a similar purpose may be denied.

VII. Fleet Policies

1. Vehicle and heavy equipment replacement funding will be allocated to each department when necessary in accordance with the Fleet Management Replacement Program. Vehicle and heavy equipment replacement recommendations will be reviewed for the following:

    a. Miles or hours as applicable
    b. Maintenance
    c. Type of Vehicle / Equipment Requested
    d. Fuel Efficiency
    e. Age of Vehicle
    f. Vehicle / Equipment Utilization

VIII. Uniform Policies

Uniform funding ***may*** be provided to serve a public purpose and for departments/individuals who a) require regular and recurring public contact b) require clear identification to the public or c) where a demonstrated need is created for distinct separation between staff and population i.e. deputy vs. inmate, detention officer vs. population, etc.

The following uniform criteria must be met:

1. The uniform item must be required daily wear by the elected official/department head.
2. A departmental uniform policy must be provided at the time funding is requested to include (but not limited to) quantity of uniforms provided, positions requiring a uniform item, itemization of uniform items and on-going replacement of such items.
3. Uniform items must not be easily converted to every day wear i.e. jeans, caps, t-shirts (a patch/emblem/logo on the uniform item does not necessarily prevent it from being easily converted).
4. Footwear will only be funded if it is a specialty item required for health and safety i.e. boots for motor units.
5. Funding for outerwear such as jackets and protective gear will only be recommended if an employee's job duties must be performed outdoors on a regular basis and the employee's personal outerwear is not permitted.
6. Shotguns/Rifles will be funded for each deputy if funding is available. Personal glocks/handguns are to be funded/provided by the deputy.

Commissioners Court - Regular Session **35.**

Meeting Date: 12/11/2018

Line Item Transfers

Submitted For: Valerie Covey **Submitted By:** Rachel Rull, Commissioner Pct. #3

Department: Commissioner Pct. #3

Agenda Category: Regular Agenda Items

Information

Agenda Item

Discuss, consider and take appropriate action on creating a policy regarding line item transfers and contracts.

Background

Currently, line item transfers can be placed on the agenda without budget office and auditor review. We would like the court to consider adopting a policy stating that line item transfers be submitted to the agenda by Tuesday at 5:00 p.m. and only be placed on agenda after budget and audit review. Budget and audit would not approve the line item transfers, but would rather ensure that sufficient funds are available and that the transfer is within policy for items that were approved by the Court during the budget process.

Fiscal Impact

From/To	Acct No.	Description	Amount

Attachments

No file(s) attached.

Form Review

Inbox	Reviewed By	Date
County Judge Exec Asst.	Rebecca Clemons	12/06/2018 02:11 PM
Form Started By: Rachel Rull		Started On: 12/05/2018 06:37 PM
Final Approval Date: 12/06/2018		

Commissioners Court - Regular Session **36.**

Meeting Date: 12/11/2018

Agreement for Emergency Sewer Line Repair

Submitted For: Randy Barker **Submitted By:** Kerstin Hancock, Purchasing

Department: Purchasing

Agenda Category: Regular Agenda Items

Information

Agenda Item

Discuss, consider, and take appropriate action on ratifying service agreement in the amount of $76,775.42 between STR Constructors, LTD and Williamson County for Emergency Sewer Line Repairs for the Williamson County Jail, exempting this purchase agreement from competitive bidding requirements as per Texas Local Government Code Discretionary Exemption 262.024.(a)(3), and authorizing the execution of the agreement.

Background

This agenda item serves as the formal approval and exemption of this purchase. Existing sewer lines were corroded and continuously leaking into the office space at the Williamson County Jail and Sheriff's Office due to the cast iron pipe cracking from rust and corrosion after years of clogging and stagnant water. Contractor replaced the sewer lines installed above the ceiling of occupied office space. The installation of the new insulated PVC pipe includes improving the slope and drainage of the existing condition to allow for enough drainage to prevent future clogs. Contact for this service is Dale Butler in Facilities. Funding was provided through the Jail Remodel Project P411.

Fiscal Impact

From/To	Acct No.	Description	Amount

Attachments

agreement

Form Review

Inbox	Reviewed By	Date
Purchasing (Originator)	Randy Barker	12/05/2018 03:13 PM
County Judge Exec Asst.	Wendy Coco	12/06/2018 10:26 AM
Form Started By: Kerstin Hancock		Started On: 12/04/2018 09:03 AM
Final Approval Date: 12/06/2018		

AGREEMENT
BETWEEN OWNER AND CONTRACTOR

The **Owner**:	Williamson County, Texas 710 Main Street, Ste. 101 Georgetown, Texas 78626
and **Contractor**	STR Constructors, LTD 15500 Highway 29 West Liberty Hill, Texas
for the **Project**:	Williamson County Jail Emergency Sewer Line Repairs 508 S. Rock Street Georgetown, Texas 78628
Engineer/Architect:	Talex, Inc. 6300 La Calma Suite 100 Austin TX 78752

AGREEMENT, this Agreement Between Owner and Contractor (hereinafter called "Agreement") is entered into effective as of the date indicated herein below and all attachments (the "Effective Date"), by and between Williamson County a political subdivision of the State of Texas (hereinafter called the "Owner") and STR Constructors, LTD, acting by and through its General Partner, R K Company, LLC, (hereinafter called "Contractor").

WHEREAS, the Owner desires to retain a Contractor for making emergency repairs to sewer lines within the Williamson County, being a project separate and unrelated to the Williamson County Jail Kitchen and Plumbing Remodel Project (hereinafter called the "Project"),

WHEREAS, the Owner desires a Contractor who will render, diligently and competently in accordance with the highest standards used in the profession, all Contractor services

which shall be necessary or advisable for the expeditious, economical and satisfactory completion of the Project, and

NOW, THEREFORE, in consideration of the mutual undertakings herein contained, the parties hereto agree as follows:

ARTICLE 1 SCOPE OF WORK

The Contractor has overall responsibility for and shall provide complete construction services and furnish all materials, equipment, tools and labor as necessary or reasonably inferable to complete the following scope of work (the "Work):

> Existing sewer lines are corroded and continuously leaking into the office space at the Williamson County Jail and Sheriff's Office due to the cast iron pipe cracking from rust and corrosion after years of clogging and stagnant water. Contractor shall replace the sewer lines installed above the ceiling of occupied office space. The installation of the new insulated PVC pipe shall include improving the slope and drainage of the existing condition to allow for enough drainage to prevent future clogs.

ARTICLE 2 CONTRACT DOCUMENTS

2.1 The Contract Documents consist of the following, which are incorporated by reference for all purposes:

a. This Agreement and all exhibits and attachments listed, contained or referenced in this Agreement;
b. The Uniform General Conditions for Williamson County ("General Conditions");
c. The Supplementary or Special Conditions, if any;
d. All Addenda issued prior to the Effective Date of this Agreement;
e. All Change Orders issued after the Effective Date of this Agreement; and
f. Minimum Insurance Coverages and Minimum Coverage Amounts, which is attached here to as **Exhibit 1**.

2.2 The Contract Documents form the entire and integrated Contract and Agreement between Owner and Contractor and supersede all prior negotiations, representations or agreements, written or oral. Contractor acknowledges receipt of all Contract Documents as of the date of its execution hereof.

2.3 The term "Contractor" shall be interchangeable with the terms "Proposer," "Bidder," Respondent" and "General Contractor" or other similar terms as appropriate in the Contract Documents.

ARTICLE 3 CONTRACT TIME

The Contractor shall achieve Final Completion of the Work within thirty (30) calendar days from the Effective Date of this Agreement, as such completion date may be extended by approved Change Orders. The time set forth for completion of the Work is an essential element of the Contract.

ARTICLE 4 CONTRACTOR REPRESENTATIONS

4.1 In order to induce Owner to enter into this Agreement, Contractor has made representations throughout this Agreement and hereby further makes the following representations:

A. Contractor has examined and carefully studied the Contract Documents and the other related data.

B. Contractor has visited the Site and become familiar with and is satisfied as to the general, local, and Site conditions that may affect cost, progress, and performance of the Work. Furthermore, Contractor acknowledges this Project includes very unique circumstances and factors due to the fact the Work being performed is on a jail facility that contains the Williamson County Jail inmate population, that must remain operable, and that security measures must be taken and followed during all Work on the Project.

C. Contractor is familiar with and is satisfied as to all federal, state, and local laws and regulations that may affect cost, progress, and performance of the Work.

D. Contractor has considered the information known to Contractor; information commonly known to contractors doing business in the locality of the Site; information and observations obtained from visits to the Site; the Contract Documents; and the Site-related reports and drawings identified in the Contract Documents, with respect to the effect of such information, observations, and documents on (1) the cost, progress, and performance of the Work; (2) the means, methods, techniques, sequences, and procedures of construction to be employed by Contractor, including any specific means, methods, techniques, sequences, and procedures of construction expressly required by the Contract Documents; and (3) Contractor's safety precautions and programs.

E. Based on the information and observations referred to in Paragraph 4.1.D above, Contractor does not consider that further examinations, investigations, explorations, tests, studies, or data are necessary for the performance of the Work at the Contract Price, within the

Contract Times, and in accordance with the other terms and conditions of the Contract Documents.

F. Contractor is aware of the general nature of work to be performed by Owner and others at the Site that relates to the Work as indicated in the Contract Documents.

G. Contractor has given Engineer written notice of all conflicts, errors, ambiguities, or discrepancies that Contractor has discovered in the Contract Documents, and the written resolution thereof by Engineer is acceptable to Contractor.

H. The Contract Documents are generally sufficient to indicate and convey understanding of all terms and conditions for performance and furnishing of the Work.

ARTICLE 5 THE CONTRACT PRICE; OWNER'S CONSTRUCTION CONTINGENCY; AND MARKUP ON CHANGES IN THE WORK

5.1 Contract Price. Owner shall pay Contractor for completion of the Work in accordance with the Contract Documents the amount of **$76,775.42**.

5.2 Contract Payments. Method and terms of payment of the Contract Price shall be in accordance with the Contract Documents.

ARTICLE 6 TIME

6.1 TIME LIMITS STATED IN THE CONTRACT DOCUMENTS ARE OF THE ESSENCE OF THIS AGREEMENT.

6.2 Unless otherwise approved in writing, the Owner and the Contractor shall perform their respective obligations under the Contract Documents as expeditiously as is consistent with reasonable skill and care and the orderly progress of the Work.

ARTICLE 7 NOTICES

Notices of claims, disputes or other legal notices shall be in writing and shall be deemed to have been given when delivered in person to the representative of the Contractor or Owner for whom it is intended, as set out below or sent by U. S. Mail to the representative of the Contractor or Owner for whom it is intended, as set out below. Mail notices are deemed effective upon receipt or on the third business day after the date of mailing, whichever is sooner.

If to Owner: Williamson County Judge

710 Main Street, Ste. 101
Georgetown, Texas 78626

with copy to: Hal C. Hawes
General Counsel to the
Williamson County Commissioners Court
710 Main Street, Suite 102
Georgetown, Texas 78626

If to Contractor: STR Constructors, LTD
Attn: T R Kennedy, President
15500 Hwy 29 West
Liberty Hill, TX 78642

The parties may make reasonable changes in the person or place designated for receipt of notices upon advance written notice to the other party.

ARTICLE 8 PARTY REPRESENTATIVES

The Owner's Designated Representative (sometimes referred to as the "ODR") authorized to act in the Owner's behalf with respect to the Project is:

Dale Butler
Assistant Director, Projects
Williamson County Facilities
3101 SE Inner Loop
Georgetown, TX 78626
Phone: 512-943-1609

The Contractor's designated representative authorized to act on the Contractor's behalf and bind the Contractor with respect to the Project is:

TR Kennedy, President
STR Constructors, Ltd.
15500 Hwy 29 West
Liberty Hill, TX 78642
Phone: (512) 515-0254, Ext. 223

The parties may make reasonable changes in their designated representatives upon advance written notice to the other party.

ARTICLE 9 ENTIRE AGREEMENT

This Agreement supersedes all prior agreements, written or oral, between Contractor and Owner and shall constitute the entire agreement and understanding between the parties with respect to the Project. This Agreement and the terms of the Contact Documents shall be binding upon the parties and may not be waived, modified, amended or altered except by a writing signed by Contractor and Owner.

BY SIGNING BELOW, the Parties have executed and bound themselves to this Agreement to be effective as of the date of the last party's execution below (the "Effective Date").

Williamson County, Texas:	STR Constructors, LTD, acting by and through its General Partner, R K Company, LLC:
By: _____	By: _____
Printed Name: _____	Printed Name: TR Kennedy
Title: _____	Title: President
Date: _____ ____, 20____	Date: Dec 3, 2018

EXHIBIT 1

Minimum Insurance Coverages

Minimum Coverage Amounts

A. All policies of insurance provided by the Contractor must comply with the requirements of this Exhibit, the Contract Documents and the laws of the State of Texas.

B. The Contractor shall provide and maintain, until the Work covered in the Agreement Between Owner and Contractor is completed and accepted by the Owner, the minimum insurance coverages in the minimum amounts as described below. Coverage shall be written on an occurrence basis by companies authorized and admitted to do business in the State of Texas and rated A- or better by A.M. Best Company, or otherwise acceptable to Owner.

	Type of Coverage	Limits of Liability
1.	Worker's Compensation	Statutory
2.	Employer's Liability	
	Bodily Injury by Accident	$500,000 Ea. Accident
	Bodily Injury by Disease	$500,000 Ea. Employee
	Bodily Injury by Disease	$500,000 Policy Limit

3. Comprehensive general liability including completed operations and contractual liability insurance for bodily injury, death, or property damages in the following amounts:

COVERAGE	PER OCCURRENCE
Comprehensive General Liability (including premises, completed operations and contractual)	$1,000,000
Aggregate policy limits:	$2,000,000

4. Comprehensive automobile and auto liability insurance (covering owned, hired, leased and non-owned vehicles):

COVERAGE	PER PERSON	PER OCCURRENCE
Bodily injury (including death)	$1,000,000	$1,000,000

Property damage	$1,000,000	$1,000,000
Aggregate policy limits	No aggregate limit	

5. Builder's Risk Insurance (all risks)
An all risk policy, in the amount equal at all times to 100% of the Contract Price or Contract Sum. The policy shall be issued in the name of the Contractor and shall name its Subcontractors as additional insureds. The Owner shall be named as a loss payee on the policy. The builders risk policy shall have endorsements as follow:

a. This insurance shall be specific as to coverage and not considered as contributing insurance with any permanent insurance maintained on the present premises. If off-site storage is permitted, coverage shall include transit and storage in an amount sufficient to protect property being transported or stored.

b. This insurance shall be on an "all-risk" or equivalent policy form and shall include, without limitation, insurance against the perils of fire (with extended coverage) and physical loss or damage including, without duplication of coverage, caused by certified acts of terrorism as defined in the Terrorism Risk Insurance Act, theft, vandalism, malicious mischief, collapse, earthquake, flood, windstorm, falsework, testing and startup, temporary buildings and debris removal including demolition occasioned by enforcement of any applicable legal requirements, and shall cover reasonable compensation for Architect's and Contractor's services and expenses required as a result of such insured loss as well as coverage for building materials while in transit or building materials suitably stored at a temporary location. Property insurance provided by the Contractor shall not cover any tools, apparatus, machinery, scaffolding, hoists, forms, staging, shoring, and other similar items commonly referred to as construction equipment that may be on the site and the capital value of which is not included in the Work. The Contractor shall make its own arrangements for any insurance it may require on such construction equipment. Any such policy obtained by the Contractor under this section shall include a waiver of subrogation in accordance with the requirements of Section 11.3.4 of the General Conditions.

C. For renovation projects and or portions of work contained within an existing structure, the Owner waives subrogation for damage by fire to existing building structure(s), if the Builder's Risk Policy has been endorsed to include coverage for existing building structure(s) in the amount described in the Special Conditions. However, Contractor shall not be required to obtain such an endorsement unless specifically required by the

Special Conditions in the Contract Documents. The aforementioned waiver of subrogation shall not be effective unless such endorsement is obtained.

6. Flood insurance when specified in Supplementary General Conditions or Special Conditions.

7. Umbrella coverage in the amount of not less than $5,000,000.

C. Workers' Compensation Insurance Coverage:

a. Definitions:

(1) Certificate of coverage ("certificate") - A copy of a certificate of insurance, a certificate of authority to self-insure issued by the Texas Workers' Compensation Commission, or a coverage agreement (TWCC-81, TWCC-82, TWCC-83, or TWCC-84), showing statutory workers' compensation insurance coverage for the person's or entity's employees providing services on a project, for the duration of the Project.
(2) Duration of the Project - includes the time from the beginning of the work on the Project until the Contractor's/person's work on the Project has been completed and accepted by the Owner.
(3) Coverage – Workers' compensation insurance meeting the statutory requirements of the Texas Labor Code, §401.011(44).
(4) Persons providing services on the Project ("subcontractor") - includes all persons or entities performing all or part of the services the Contractor has undertaken to perform on the Project, regardless of whether that person contracted directly with the Contractor and regardless of whether that person has employees. This includes, without limitation, independent contractors, subcontractors, leasing companies, motor carriers, owner-operators, employees of any such entity, or employees of any entity which furnishes persons to provide services on the Project. "Services" include, without limitation, providing, hauling, or delivering equipment or materials, or providing labor, transportation, or other service related to a project. "Services" does not include activities unrelated to the Project, such as food/beverage vendors, office supply deliveries, and delivery of portable toilets.

b. The Contractor shall provide coverage, based on proper reporting of classification codes and payroll amounts and filing of any coverage agreements, which meets the statutory requirements of Texas Labor Code, §401.011(44) for all employees of the Contractor providing services on the Project, for the duration of the Project.
c. The Contractor must provide a certificate of coverage prior to execution of the Agreement Between Owner and Contractor, and in no event later than ten (10) days from Notice of Award.

d. If the coverage period shown on the Contractor's current certificate of coverage ends during the duration of the Project, the Contractor must, prior to the end of the coverage period, file a new certificate of coverage with the Owner showing that coverage has been extended.
e. The Contractor shall obtain from each person providing services on a project, and provide to the Owner:

(1) a certificate of coverage, prior to that person beginning work on the Project, so the Owner will have on file certificates of coverage showing coverage for all persons providing services on the Project; and
(2) no later than seven days after receipt by the Contractor, a new certificate of coverage showing extension of coverage, if the coverage period shown on the current certificate of coverage ends during the duration of the Project.

f. The Contractor shall retain all required certificates of coverage for the duration of the Project and for one year thereafter.
g. The Contractor shall notify the Owner in writing by certified mail or personal delivery, within 10 days after the Contractor knew or should have known, of any change that materially affects the provision of coverage of any person providing services on the Project.
h. The Contractor shall post on each project site a notice, in the text, form and manner prescribed by the Texas Workers' Compensation Commission, informing all persons providing services on the Project that they are required to be covered, and stating how a person may verify coverage and report lack of coverage.

i. The Contractor shall contractually require each person with who it contracts to provide services on a project, to:

(1) provide coverage, based on proper reporting of classification codes and payroll amounts and filing of any coverage agreements, which meets the statutory requirements of Texas labor Code, Section 401.011(44) for all of its employees providing services on the Project, for the duration of the Project;
(2) provide to the Contractor, prior to that person beginning work on the Project, a certificate of coverage showing that coverage is being provided for all employees of the person providing services on the Project, for the duration of the Project;
(3) provide the Contractor, prior to the end of the coverage period, a new certificate of coverage showing extension of coverage, if the coverage period shown on the current certificate of coverage ends during the duration of the Project;
(4) obtain from each other person with whom it contracts, and provide to the Contractor:

a. a certificate of coverage, prior to the other person beginning work on the Project; and

b. a new certificate of coverage showing extension of coverage, prior to the end of the coverage period, if the coverage period shown on the current certificate of coverage ends during the duration of the Project;

(5) retain all required certificate of coverage on file for the duration of the Project and for one year thereafter;

(6) notify the Owner in writing by certified mail or personal delivery, within 10 days after the person knew or should have known, of any change that materially affects the provision of coverage of any person providing services on the Project; and

(7) contractually require each person with whom it contracts, to perform as required by paragraphs (1)-(7), with the certificates of coverage to be provided to the person for whom they are providing services.

j. By signing the Agreement Between Owner and Contractor or providing or causing to be provided a certificate of coverage, the Contractor is representing to the Owner that all employees of the Contractor who will provide services on the Project will be covered by workers' compensation coverage for the duration of the Project, that the coverage will be based on proper reporting of classification codes and payroll amounts, and that all coverage agreements will be filed with the appropriate insurance carrier or, in the case of a self-insured, with the commission's Division of Self-Insurance Regulation. Providing false or misleading information may subject the Contractor to administrative penalties, criminal penalties, civil penalties, or other civil actions.

k. The Contractor's failure to comply with any of these provisions is a breach of contract by the Contractor which entitles the Owner to declare the Agreement Between Owner and Contractor void if the Contractor does not remedy the breach within ten days after receipt of notice of breach from the Owner.

D. If insurance policies are not written for the amounts specified in this Exhibit, Contractor shall carry Umbrella or Excess Liability Insurance for any differences in amounts specified. If Excess Liability Insurance is provided, it shall follow the form of primary coverage.

E. The furnishing of the above listed insurance coverage, as may be modified by the Contract Documents, must be tendered prior to execution of the Agreement Between Owner and Contractor, and in no event later than ten (10) days from Notice of Award.

F. Owner shall be entitled, upon request and without expense, to receive copies of the policies and all endorsements as they apply to the limits set out in this Exhibit.

G. Contractor shall be responsible for payment of premiums for all of the insurance coverages required under this Exhibit. Contractor further agrees that for each claim, suit or action made against insurance provided hereunder, with respect to all matters for which the Contractor is responsible hereunder, Contractor shall be solely responsible for all deductibles and self-insured retentions. Any deductibles or self-insured retentions over **$75,000** in the Contractor's insurance must be declared and approved in writing by Owner in advance.

STR CONSTRUCTORS, LTD

ESTIMATE FOR PARTIAL PAYMENT

PROJECT TITLE: WILLIAMSON COUNTY JAIL EMERGENCY SEWER LINE REPAIRS PROJECT NO.

CONTRACTOR: STR CONSTRUCTORS, LTD. 15500 HWY 29 West, Liberty Hill, Texas 78642
(Firm Name) (Mailing Address)

Original Contract Price	$76,775.42
Change Order Add. Costs	$0.00
Total	$76,775.42
Change Order Credits	$0.00
Total Contract to Date	$76,775.42

Date December 3, 2018

P.O. No. _____ Est. No. 01

Contract No. STR No. 1702

Estimate Period: 9/14/2018 to 10/30/2018 Account Code: _____

SCHEDULE OF VALUES

A	B	C	D	E	F	G	H	I	J
ITEM NO.	ITEM DESCRIPTION	CONTRACT PRICE	PERCENT THIS EST.	PERCENT TO DATE	AMOUNT PREVIOUS ESTIMATE	AMOUNT THIS ESTIMATE	MAT'S PRESENTLY STORED	TOTAL AMOUNT TO DATE	BALANCE TO FINISH
0	Owners' Contingency								
	(For Owner Tracking ONLY -								
	contingency is OUTSIDE								
	Project Contract Amount)								
	TOTAL								

Prepared by: **Whit Pilcher/Project Manager**
CONTRACTOR'S REPRESENTATIVE/TITLE

The undersigned Contractor certifies to the best of its knowledge, the work covered by this Estimate for Partial Payment has been completed in accordance with the Contract Documents, that all amounts have been paid by the Contractor for Work for which previous Certifications for Payment were issued and payments received from the Owner, and that current payment shown herein is now due.

Signature _____ 12/3/18 DATE

Approved: TALEX, INC - Engineers
CONSULTING FIRM

By _____
Tom Alexander, PE or Oscar Villarreal, PE DATE

Approved: _____
OWNERS' REP - Dale Bulter (Wilco Facilities) DATE

Approved: _____
Williamson County Judge - Honorable Dan Gattis DATE

Total amount of contract performed to date.....	$76,775.42
Less Retainage.....	$0.00
Amount due to date	$76,775.42
Amount paid on previous estimates	$0.00
Amount due on this estimate	$76,775.42

STR CONSTRUCTORS, LTD

A	B	C	D	E	F	G	H	I	J
ITEM NO.	ITEM DESCRIPTION	CONTRACT PRICE	PERCENT THIS EST.	PERCENT TO DATE	AMOUNT PREVIOUS ESTIMATES	AMOUNT THIS ESTIMATE	MAT'S PRESENTLY STORED	TOTAL AMOUNT TO DATE	BALANCE TO FINISH
1	**EMERGENCY PLUMBING**	$76,775.42	100%	0%	$0.00	$76,775.42		$76,775.42	$0.00
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
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16									
17									
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
	GRAND TOTAL	**$76,775.42**	**100%**	**$0.00**	**$0.00**	**$76,775.42**	**$0.00**	**$76,775.42**	**$0.00**

Commissioners Court - Regular Session **37.**

Meeting Date: 12/11/2018

Advertisement Approval IFB 1811-281 FY 19 Cross Culverts

Submitted For: Randy Barker **Submitted By:** Thomas Skiles, Purchasing

Department: Purchasing

Agenda Category: Regular Agenda Items

Information

Agenda Item

Discuss, consider and take appropriate action on authorizing the Purchasing Agent to advertise and receive sealed bids for FY19 Cross Culvert Replacements under IFB #1811-281.

Background

Williamson County is seeking qualified Contractors to provide materials, experienced construction crews and equipment to construct the FY19 cross culvert replacements throughout Precinct 4 of Williamson County. Funding source 01.0200.0210.003599.

Fiscal Impact

From/To	Acct No.	Description	Amount

Attachments

Bid Package

Form Review

Inbox	Reviewed By	Date
Purchasing (Originator)	Randy Barker	12/06/2018 10:44 AM
County Judge Exec Asst.	Wendy Coco	12/06/2018 10:54 AM
Form Started By: Thomas Skiles		Started On: 12/06/2018 07:56 AM
Final Approval Date: 12/06/2018		

Solicitation 1811-281

FY 19 Cross Culvert Replacements

Bid Designation: Public

Williamson County, Texas

Bid 1811-281
FY 19 Cross Culvert Replacements

Bid Number	1811-281
Bid Title	FY 19 Cross Culvert Replacements
Expected Expenditure	**$630,000.00** (This price is expected - not guaranteed)
Bid Start Date	In Held
Bid End Date	Jan 10, 2019 3:00:00 PM CST
Question & Answer End Date	Jan 4, 2019 5:00:00 PM CST
Bid Contact	Blake Skiles Senior Purchasing Specialist 512-**943**-1478 blake.skiles@wilco.org
Contract Duration	**60 days**
Contract Renewal	Not Applicable
Prices Good for	**365 days**
Pre-Bid Conference	**Dec 19, 2018 10:00:00 AM CST** **Attendance is optional** **Location: 3151 Southeast Innerloop** **Georgetown, TX 78626**
Bid Comments	**Williamson County is seeking qualified Contractors to provide materials, experienced construction crews and equipment to construct the FY 19 cross culvert replacements throughout Precinct 4 of Williamson County.**

Item Response Form

Item	**1811-281-01-01** - Total Bid Price
Quantity	**1 each**
Unit Price	
Delivery Location	**Williamson County, Texas** No Location Specified

Qty 1

Description
Total Bid Price

Item	**1811-281-01-02** - Please Attach All Documents To This Line
Quantity	**1 each**

Prices are not requested for this item.

Delivery Location	**Williamson County, Texas**

No Location Specified

Qty 1

Description
Please Attach All Documents To This Line

PUBLIC ANNOUNCEMENT AND GENERAL INFORMATION

WILLIAMSON COUNTY PURCHASING DEPARTMENT
SOLICITATION 1811-281
FY 19 Cross Culvert Replacements

BIDS MUST BE RECEIVED ON OR BEFORE:
Jan 10, 2019 3:00:00 PM CST

BIDS WILL BE PUBLICLY OPENED:
Jan 10, 2019 3:00:00 PM CST

Notice is hereby given that sealed Bids for the above-mentioned goods and/or services will be accepted by the Williamson County Purchasing Department. Williamson County uses BidSync to distribute and receive bids. Specifications for this IFB may be obtained by registering at www.bidsync.com.

Williamson County prefers and requests electronic submittal of this Bid.

All electronic bids must be submitted via: www.bidsync.com

Electronic bids are requested, however paper bids will currently still be received, until further notice and may be mailed or delivered to the address listed below.

Bidders are strongly encouraged to carefully read this entire IFB.

All interested Bidders are invited to submit a Bid in accordance with the Instructions and General Requirements, Bid Format, Bid Specifications, and Definitions, Terms and Conditions stated in this IFB.

Please note that a complete package must be submitted choosing one of the above two methods. Split packages submitted will be considered "unresponsive" and will not be accepted or evaluated.

Williamson County will not accept any Bids received after the submittal deadline, and shall return such Bids unopened to the Bidder.

General Information:

- If mailed or delivered in person, Bids and Bid addenda are to be delivered in sealed envelope on or before the submittal deadline, as noted in the Public Announcement and General Information listed above for this IFB, to:

  Williamson County Purchasing Department
  Attn: **BID NAME AND NUMBER**
  901 South Austin Avenue
  Georgetown, Texas 78626

  - Bidders should list the Bid Number, Bid Name, Name and Address of Bidder, and the Date of the Bid opening on the outside of the box or envelope and note "Sealed Bid Enclosed."
  - Bidder should submit one (1) original.
  - Williamson County will NOT be responsible for unmarked or improperly marked envelopes.
  - Williamson County will not accept any responsibility for Bids being delivered by third party carriers.
  - Facsimile transmittals will NOT be accepted.

- Bids will be opened publicly in a manner; however, to avoid public disclosure of contents only the names and of Bidders and prices will be read aloud.

- All submitted questions with their answers will be posted and updated on www.bidsync.com.

- It is the Bidder's responsibility to review all documents in BidSync, including any Addenda that may have been added after the document packet was originally released and posted.

  - Any Addenda and/or other information relevant to the IFB will be posted on www.bidsync.com.

  - The Williamson County Purchasing Department takes no responsibility to ensure any interested Bidder has obtained any outstanding addenda or additional information.

Williamson County – Invitation for Bid (IFB)

SECTION 1 - DEFINITIONS

Addendum/Addenda – means any written or graphic instruments issued by the County prior to the consideration of Bids which modify or interpret the Bid Documents by additions, deletions, clarifications, or corrections.

Agreement/Ensuing Agreement(s) – means the Successful Bidder may be required by the County to sign an additional Agreement containing terms necessary to ensure compliance with the IFB and the Bidder's Bid. Such Ensuing Agreement(s) shall contain the Bid specifications, terms and conditions that are derived from the IFB.

Bid Documents – means the Legal Notice, IFB including attachments, and any Addenda issued by the County prior to the consideration of any Bids.

Bid – means the completed and signed bid form, (sometimes referred to as the Price Sheet), and ALL required forms and documentation listed in the IFB package which have been submitted in accordance with the terms and conditions described in the IFB package. A Bid submitted in accordance with this IFB is irrevocable during the specified period for evaluation and acceptance of Bids unless a waiver is obtained from the Williamson County Purchasing Agent.

Bidder – means a person or entity who submits a Bid in response to this IFB.

Contract – means this IFB and the Bid of the Successful Bidder shall become a Contract between the Successful Bidder and the County once the Successful Bidder's Bid is properly accepted by the Williamson County Commissioners Court.

Commissioner's Court – means the Williamson County Commissioners Court.

County – means Williamson County, a political subdivision of the State of Texas.

Invitation for Bid (IFB) – means this document, together with the attachments thereto and any future Addenda issued by the County.

Successful Bidder – means the liable Bidder to whom the County intends to award the Contract.

SECTION 2 - BID FORMAT AND SUBMISSION

2.1 ORGANIZATION OF BID CONTENTS FOR SUBMITTAL

Each Bid should be organized and items submitted in the order described below:

A. Transmittal Letter. Please see Section 2.3, Transmittal Letter, for more information.

B. Price Sheet.

C. Conflict of Interest Questionnaire. Please see Section 2.2, Conflict of Interest, for more information in regards to this. Please note that even if you deem there to be no Conflict of Interest, this signed questionnaire must be included in your package.

D. References. Please see Section 3.15, References, for more information.

E. Bid Affidavit.

F. Form 1295. Please see Section 2.4, Certificate of Interested Parties – Form 1295.

2.2 CONFLICT OF INTEREST

No public official shall have interest in a Contract, in accordance with Vernon's Texas Codes Annotated, Local Government Code, Title 5, Subtitle C, Chapter 171, as amended.

As of January 1, 2006, all Bidders are responsible for complying with Local Government Code, Title 5, Subtitle C, Chapter 176. Additional information may be obtained from the County's website at the following link:

http://www.wilco.org/CountyDepartments/Purchasing/ConflictofInterestDisclosure/tabid/689/language/en US/Default.aspx

Each Bidder must disclose any existing or potential conflict of interest relative to the performance of the requirements of this IFB. **Examples of potential conflicts of interest may include an existing business or personal relationship between the Bidder, its principal, or any affiliate or subcontractor with the County or any other entity or person involved in any way with the project that is subject to this IFB**. Similarly, any personal or business relationship between the Bidder, the principals, or any affiliate or subcontractor with any employee, or official of the County or its suppliers must be disclosed. Any such relationship that might be perceived or represented as a conflict must be disclosed. Failure to disclose any such relationship or reveal personal relationships with the County employees or officials may be cause for termination.

The County will decide if an actual or perceived conflict should result in Bid disqualification.

By submitting a Bid in response to this IFB, all Bidders affirm they have not given, nor intend to give, at any time hereafter, any economic opportunity, future employment, gift, loan, gratuity, special discount, trip, favor, or service to a the County public servant or any employee, official or representative of same, in connection with this procurement.

Each Bidder must provide a Conflict of Interest Statement with their Bid Package. Package may be deemed incomplete without this form.

2.3 TRANSMITTAL LETTER

The Bidder should submit a Transmittal Letter that provides the following information:

A. Name and address of individual or business entity submitting the Bid.

B. Name, physical address, email address, business and fax number of the Bidder's principal contact person regarding all contractual matters relating to this IFB.

C. The Bid's Federal Employer Identification Number.

D. If the Proposal being submitted will have an effect on air quality for the County (as it relates to any state, federal, or voluntary air quality standard), then the Respondent is encouraged to provide information in narrative indicating the anticipated air quality impact. See Section 4.36, Air Quality for more information.

2.4 CERTIFICATE OF INTERESTED PARTIES – FORM 1295

As of January 1, 2016, all Successful Bidders are responsible for complying with the Texas Government Code, Section 2252.908. The law states that the County may not enter into certain contracts with a Bidder unless the Bidder submits a disclosure of interested parties to the County at the time the Bidder submits the signed Contract. The law applies only to a Contract of the County on or after January 1, 2016 that either:

A. Requires an action or vote by the Commissioners Court before the Contract may be signed (all contracts that fall under the jurisdiction of the Commissioners Court approval, such as contracts resulting from an Initiation for Bid (IFB), RFP, Request for Qualifications (RFQ), etc., excluding, but not limited to, certain Juvenile Service contracts, contracts funded with Sheriff's seized fun monies, etc.); or
B. Has a value of at least $1,000,000.

By January 1, 2016, the Texas Ethics Commission will make available on its website, a new filing application that must be used to file Form 1295. Information regarding how to use the filing application is available on the Texas Ethics Commission website at the following link:

https://www.ethics.state.tx.us/whatsnew/elf_info_form1295.htm

A Respondent must:

A. Use the online application to process the required information on Form 1295.

B. Print a copy of the form which will contain a unique certification number.

C. An authorized agent of the Bidder must sign the printed copy of the form.

D. Have the form notarized.

E. File the completed Form 1295 and certification of filing (scanning and emailing form is sufficient) with Williamson County Purchasing Agent at the time the signed Contract is submitted for approval.

After the Commissioners Court award of the Contract, the County shall notify the Texas Ethics Commission, using the Texas Ethics Commission's filing application, of the receipt of the filed Form 1295 and certification of filing not later than the 30th day after the date the Contract binds all parties to the Contract. The Texas Ethics Commission will post the completed Form 1295 to its website within seven business days after receiving notice from the County.

2.5 ETHICS

The Bidder shall not accept or offer gifts or anything of value nor enter into any business arrangement with any employee, official or agent of the County.

2.6 BID SUBMITTAL DEADLINE

The Bid is due no later than the submittal date and time set forth in the Public Announcement and General Information listed in this IFB package. Contents of each Bid shall be submitted in accordance with this IFB.

2.7 DELIVERY OF BIDS

The County uses BidSync to distribute and receive Bids and proposals. It is preferred that Bids submitted electronically through BidSync; however, Bidders can submit a hard copy.

Refer to www.bidsync.com for further information on how to submit electronically.

If mailed or delivered in person, Bids and Bid Addenda are to be delivered in sealed envelope on or before the submittal deadline, as noted in the Public Announcement and General Information listed in this IFB package, to:

Williamson County Purchasing Department
Attn: **Bid Name and Number**
901 South Austin Avenue
Georgetown, Texas 78626

Also, all Bidders should list their Name and Address, and the Date of the Bid opening on the outside the box or envelope and note "Sealed Bid Enclosed." The County will not accept any Bids received after the submittal deadline, and shall return such Bids unopened to the Bidder. The County will not accept any responsibility for Bids being delivered by third party carriers.

Bids will be opened publically and the names of Bidders and pricing will be read aloud.

SECTION 3 - INSTRUCTIONS AND GENERAL REQUIREMENTS

3.1 INSTRUCTIONS

Read this document carefully, and follow all instructions and requirements. All Bidders are responsible for fulfilling all requirements and specifications. Be sure to have a clear understanding of this IFB.

General requirements apply to all advertised IFBs; however, these may be superseded, in whole or in part, by the bid specifications, Addenda and modifications issued as a part of this IFB. Be sure your Bid package is complete.

3.2 AMBIGUITY, CONFLICT, OR OTHER ERRORS IN THIS IFB

If a Bidder discovers any ambiguity, conflict, discrepancy, omission or other error in this IFB, the Bidder shall immediately notify the County Purchasing Department of such error in writing and request modification or clarification of the document.

Modifications will be made by issuing Addenda. If the Bidder fails to notify the County prior to the date and time fixed for submission of Bids of an error or ambiguity in the IFB known to the Bidder, or an error or ambiguity that reasonably should have been known to the Bidder, then the Bidder shall be deemed to have waived the error or ambiguity or its later resolution.

The County may also modify the IFB, no later than forty-eight (48) hours prior to the date and time fixed for submission of Bids, by issuance of an Addendum. All Addenda will be numbered consecutively, beginning with one (1).

3.3 NOTIFICATION OF MOST CURRENT ADDRESS

All Bidders in receipt of this IFB shall notify the Williamson County Purchasing Department of any address changes, contact person changes, and/or telephone number changes no later than forty-eight (48) hours prior to the date and time fixed for submission of Bids.

3.4 SIGNATURE OF BIDDER

A. If the Bidder is a Corporation or Limited Liability Company, the legal name of the Corporation Limited Liability Company shall be provided together with the signature of the officer or officers authorized to sign on behalf of such entity.

B. If the Bidder is a General Partnership, the true name of the firm shall be provided with the signature of each partner authorized to sign.

C. If the Bidder is a Limited Partnership, the name of the Limited Partner's General Partner shall provided with the signature of the officer authorized to sign on behalf of the General Partner.

D. If the Bidder is a Sole Proprietor(s) (individual), each Sole Proprietor(s) shall sign.

E. If signature is by an agent, other than the Sole Proprietor(s) or an officer of a Corporation, Limited Liability Company, General Partner or a member of a General Partnership, a power of attorney equivalent document must be submitted to the Williamson County Purchasing Department.

3.5 ASSUMED BUSINESS NAME

If the Bidder operates business under an Assumed Business Name, the Bidder must have on file with the Williamson County Clerk a current Assumed Name Certificate and provide a file marked copy of same.

3.6 BID OBLIGATION

The contents of the IFB, Bid, and any clarification thereof submitted by the Successful Bidder shall become part of the contractual obligation and incorporated by reference into the Contract and any Ensuing Agreement(s).

3.7 COMPLIANCE WITH IFB SPECIFICATIONS

It is intended that this IFB describe the requirements and the Bid format in sufficient detail to secure comparable Bids. Failure to comply with all provisions of the IFB may, at the sole discretion of the County, result in disqualification.

3.8 WITHDRAWAL OF BID

The Bidder may withdraw its Bid by submitting a written request with the company letterhead and the signature of an authorized individual, as described in Section 3.4, Signature of Bidder, to the Williamson County Purchasing Department any time prior to the submission deadline.

The Bidder may submit a new Bid prior to the deadline. Alterations of the Bid in any manner will not be considered if submitted after the deadline. Withdrawal of a Bid after the deadline will be subject to written approval of the Williamson County Purchasing Agent.

3.9 EVALUATION AND AWARD

The County reserves the right to use all pertinent information (also learned from sources other than disclosed in the Bid process) that might affect the County's judgment as to the appropriateness of award to the lowest and best evaluated Bid. This information may be appended to the Bid evaluation process results. Information on a Bidder from reliable sources, and not within the Bidder's Bid, may also be noted and made part of the evaluation file. The County shall have sole discretion for determining the reliability of the source.

To ensure the proper and fair evaluation of a solicitation, the County prohibits unsolicited communication initiated by the Bidder to the County Official or Employee evaluating or considering the Bids prior to the time an award has been made. Unsolicited communication may be ground for disqualifying the offending Bidder from consideration or award of the solicitation, or any future solicitation.

Communication between the Bidder and the County will be initiated by the appropriate County Official Employee in order to obtain information or clarification needed to develop a proper and accurate evaluation of the solicitation.

The County intends to award a Contract to the most responsible and responsive Bidder whose Bid will be most advantageous to the County. In accordance with Texas Government Code and Local Government Code, the County may consider, to the extent allowed by law, the following:

A. Price;
B. The Bidder's experience and reputation;
C. Quality of the Bidder's goods and/or services;
D. The Bidder's safety record;
E. The Bidder's proposed personnel;
F. The Bidder's financial capabilities; and
G. Any other relevant factors specifically listed in this IFB or authorized by law.

3.10 CONDISERATION OF LOCATION OF PRINCIPAL OFFICE

Pursuant to Texas Local Government Code, Section 271.905, in purchasing any real property or personal property that is not affixed to real property, if the County receives one or more Bids from a Bidder whose principal place of business is in Williamson County and whose Bid is within three (3) percent of the lowest Bid price received by the County from a Bidder who is not a resident of Williamson County, the County may enter into a contract with:

A. The lowest Bidder; or the Bidder whose principal place of business is in Williamson County if the Commissioners Court determines, in writing, that the local Bidder offers the County the best combination of contract price and additional economic development opportunities Williamson County created by the contract award, including the employment of residents Williamson County and increased tax revenues to Williamson County.

3.11. REJECTION OR ACCEPTANCE

It is understood that the Commissioners Court of Williamson County, Texas, reserves the right to accept or reject any and/or all Bids for any or all goods and/or services covered in this IFB, and to waive informalities or defects in the Bid or to accept such Bid, if it shall deem to be in the best interest of the County.

Awards should be made approximately sixty (60) business days after the Bid opening date. Results may be obtained by viewing the Williamson County vendor portal at the following link:

http://www.wilco.org/CountyDepartments/Purchasing/SearchforaPastBid/tabid/5213/language/en-US/Default.aspx

3.12 RESPONSIBILITY

It is expected that a prospective Bidder will be able to affirmatively demonstrate responsibility. A prospective Bidder should be able to meet the following requirements:

A. Have adequate financial resources, or the ability to obtain such resources as required;
B. Be able to comply with the required or proposed delivery schedule;
C. Have a satisfactory record of performance that can be determined thru references provided; and
D. Be otherwise qualified and eligible to receive an award.

The County may request representation and other information sufficient to determine the Bidder's ability to meet these minimum standards listed above.

3.13 FIRM PRICING

For unit price items, all of the items listed are to be on a "per unit" basis, stating a firm price per unit or unit quantity of each item. The Bidder must submit a firm price that must be good from the date of Bid opening for the fixed period of time set out in this IFB. Unless the IFB expressly states otherwise, this period shall be until the end of the Initial Contract Period.

Bids which do not state a fixed price, or which are subject to change without notice, will not be considered. The Court may award a Contract for the period implied or expressly stated in the lowest and best Bid.

3.14 PURCHASE ORDERS

If required by the Williamson County Purchasing Department, a purchase order(s) may be generated to the Successful Bidder for goods and/or services. If a purchase order is issued, the purchase order number must appear on all itemized invoices and/or requests for payment.

3.15 SILENCE OF SPECIFICATIONS

The apparent silence of these specifications as to any detail or to the apparent omission from it of a detailed description concerning any point, shall be regarded as meaning that only the best practices are to prevail. All interpretations of these specifications shall be made on the basis of this statement.

3.16 REFERENCES

The County may require the Bidder to supply a list of at least three (3) references where like services and/or goods have been supplied by their firm within the past five (5) years, to include names, titles, phone numbers and email addresses of key personnel, and dates of performance.

The County may contact some or all of the references in order to determine the Respondent performance record on work similar to that described in this RFP. The County reserves the right to contact references other than those provided in the response and to use the information gained from them in the evaluation process.

References, if requested, should be provided in accordance with this IFB. Bid may not be deemed complete without the inclusion of requested references.

SECTION 4 - TERMS AND CONDITIONS

4.1 VENUE AND GOVERNING LAW

The Bidder hereby agrees and acknowledges that venue and jurisdiction of any suit, right, or cause of action arising out of or in connection with this IFB, the Contract and any Ensuing Agreement(s), shall lie exclusively in either Williamson County, Texas or in the Austin Division of the Western Federal District of Texas, and the parties hereto expressly consent and submit to such jurisdiction. Furthermore, except to the extent that this IFB, the Contract and any Ensuing Agreement(s) is governed by the laws of the United States, this IFB, the Contract and any Ensuing Agreement(s) shall be governed by and construed in accordance with the laws of the State of Texas, excluding, however, its choice of law rules.

4.2 INCORPORATION BY REFERENCE AND PRECEDENCE

A. The Contract shall be derived from the IFB and its Addenda (if applicable), and the Bidder's Bid. In the event of a dispute under the Contract, applicable documents will be referred to for the purpose of clarification or for additional detail in the following order of precedence:

   1. The IFB and its Addenda (if applicable); and

   2. The Bidder's Bid.

B. In the event the County requires that an Ensuing Agreement be executed following award and a dispute arises between the terms and conditions of the Ensuing Agreement, the IFB and its Addenda (if applicable), and the Bidder's Bid, applicable documents will be referred to for the purpose of clarification or for additional detail in the following order of precedence:

   1. Terms and conditions of the Ensuing Agreement;

   2. The IFB its Addenda; and

   3. The Bidder's Bid.

4.3 OWNERSHIP OF BID

Each Bid shall become the property of the County upon submittal and will not be returned to Bidders unless received after the submittal deadline.

4.4 DISQUALIFICATION OF BIDDER

Upon signing and submittal of the Bid, a Bidder offering to sell supplies, materials, services, or equipment to the County, certifies that the Bidder has not violated the antitrust laws of the State of Texas codified in Business & Commerce Code, Section 15.01, or the Federal Antitrust Laws, and has not communicated directly or indirectly the offer made to any competitor or any other person engaged in such line of business. Any or all Bids may be rejected if the County believes that collusion exists among the Bidders.

4.5 FUNDING

The County intends to budget and make sufficient funds available and authorize funds for expenditure to finance the costs of the Contract. All Bidders understand and agree that the County's payment of amounts under the Contract shall be contingent on the County receiving appropriations or other expenditure authority sufficient to allow the County, in the exercise of reasonable administrative discretion, to make payments under this Contract.

4.6 ASSIGNMENT, SUCCESSORS AND ASSIGNS

The Successful Bidder may not assign, sell, or otherwise transfer the Contract or any other rights or interests obtained under the Contract without written permission of the Commissioners Court. The Contract and any Ensuing Agreement(s) shall be binding upon and inure to the benefit of the contracting parties hereto and their respective successors and permitted assigns.

4.7 IMPLIED REQUIREMENTS

Products or services not specifically described or required in the IFB, but are necessary to provide the functional capabilities described by the Bidder, shall be implied and deemed to be included in the Bid.

4.8 TERMINATION

A. **Termination for Cause:** The County reserves the right to terminate the Contract and/or any Ensuing Agreement(s) for default if the Successful Bidder breaches any of the Bid specifications, terms and conditions, including warranties of the Bidder, if any, or if the Successful Bidder becomes insolvent or commits acts of bankruptcy. Such right of termination is in addition to and not in lieu of any other remedies the County may have at law or in equity or as may otherwise provided hereunder. Default may be construed as, but not limited to, failure to deliver the proper goods and/or services within the proper amount of time, and/or to properly perform any and all other requirements to the County's satisfaction, and/or to meet all other obligations and requirements.

B. **Termination for Convenience:** The County may terminate the Contract and/or any Ensuing Agreement(s) for convenience and without cause or further liability, upon no less than thirty (30) calendar days written notice to the Successful Bidder. The County reserves the right to extend this period if it is in the best interest of the County. In the event the County exercises its right to terminate without cause, it is understood and agreed that only the amounts due to the Successful Bidder for goods, commodities and/or services provided and expenses incurred to and including the date of termination, will be due and payable. No penalty will be assessed for the County termination for convenience.

4.9 NON-PERFORMANCE

It is the objective of the County to obtain complete and satisfactory performance of the requirements set forth herein. In addition to any other remedies available at law, in equity or that may be set out herein, failure to perform may result in a deduction of payment equal to the amount of the goods and/or services that were not provided and/or performed to the County's satisfaction.

In the event of such non-performance, the County shall have the right, but shall not be obligated, to complete the services itself or by others and/or purchase the goods from other sources. If the County elects to acquire the goods or perform the services itself or by others, pursuant to the foregoing, the Successful Bidder shall reimburse the County, within ten (10) calendar days of demand, for all costs incurred by the County (including, without limitation, applicable, general, and administrative expenses, and field overhead, and the cost of necessary equipment, materials, and field labor) in correcting the nonperformance which the Successful Bidder fails to meet pursuant to the requirements set out herein. In the event the Successful Bidder refuses to reimburse the County as set out in this provision, the County shall have the right to deduct such reimbursement amounts from any amounts that may be then owing or that may become owing in the future to the Successful Bidder.

4.10 PROPRIETARY INFORMATION AND THE TEXAS PUBLIC INFORMATION ACT

All material submitted to the County shall become public property and subject to the Texas Public Information Act upon receipt. If a Bidder does not desire proprietary information in the Bid to be disclosed, each page must be clearly identified and marked proprietary at time of submittal or, more

preferably, all proprietary information may be placed in a folder or appendix and be clearly identified and marked as being proprietary. Failure to clearly identify and mark information as being proprietary as set forth under this provision will result in all unmarked information being deemed non-proprietary and available to the public. For all information that has not been clearly identified and marked as proprietary by the Bidder, the County may choose to place such information on the County's website and/or a similar public database without obtaining any type of prior consent from the Bidder.

The County will, to the extent allowed by law, endeavor to protect from public disclosure the information that has been identified and marked as proprietary. The final decision as to what information must be disclosed, however, lies with the Texas Attorney General.

To the extent, if any, that any provision in this IFB or in the Bidder's Bid is in conflict with Texas Government Code, Chapter 552, as amended (the "Public Information Act"), the same shall be of no force or effect. Furthermore, it is expressly understood, and agreed, that the County, and its officers and employees, may request advice, decisions and opinions of the Attorney General of the State of Texas in regard to the application of the Public Information Act to any items or data furnished to the County as to whether or not the same are available to the public. It is further understood that the County, and its officers and employees, shall have the right to rely on the advice, decisions and opinions of the Attorney General, and that the County, its officers and employees shall have no liability or obligation to any party hereto for the disclosure to the public, or to any person or persons, of any items or data furnished to the County by a party hereto, in reliance of any advice, decision or opinion of the Attorney General of the State of Texas.

4.11 RIGHT TO AUDIT

The Successful Bidder agrees that the County or its duly authorized representatives shall, until the expiration of three (3) years after termination or expiration of the services to be performed, have access to and the right to examine and photocopy any and all books, documents, papers and records of the Successful Bidder, which are directly pertinent to the services to be performed or goods to be delivered for the purposes of making audits, examinations, excerpts and transcriptions. The Successful Bidder agrees that the County shall have access during normal working hours to all necessary facilities and shall be provided adequate and appropriate work space in order to conduct audits in compliance with the provisions of this section. The County shall give the Successful Bidder reasonable advance notice of intended audits.

4.12 TESTING AND INSPECTIONS

The County reserves the right to inspect and test equipment, supplies, materials and goods for quality and compliance with this IFB, and ability to meet the needs of the user. Demonstration units must be available for review. Should the goods or services fail to meet requirements and/or be unavailable for evaluation, the County can deem the Bidder to be in breach and terminate the Contract and/or any Ensuing Agreement(s).

4.13 BID PREPARATION COSTS

The cost of developing Bids is the sole responsibility of the Bidders and shall not be charged to the County. There is no expressed or implied obligation for the County to reimburse the Bidders for any expense incurred in preparing a Bid in response to this IFB and the County will not reimburse the Bidders for such expenses.

4.14 INDEMNIFICATION

The Successful Bidder shall indemnify, defend and save harmless, the County, its officials, employees, agents and agent's employees from, and against, all claims, liability, and expenses including reasonable attorneys' fees, arising from activities of the Bidder, its agents, servants or employees, performed hereunder that result from the negligent act, error, or omission of the Bidder or any of the Bidder

agents, servants or employees, as well as all claims of loss or damage to the Bidder's and the County property, equipment, and/or supplies.

Furthermore, the County, its officials, employees, agents and agents' employees shall not be liable for damages to the Successful Bidder arising from any act of any third party, including, but not limited to, theft. The Successful Bidder further agrees to indemnify, defend and save harmless, the County from its officials, employee, agents and agents' employees against all claims of whatever nature arising from any accident, injury, or damage whatsoever, caused to any person, or the property of any person, occurring in relation to the Successful Bidder's performance of any services requested hereunder during the term of the Contract and/or any Ensuing Agreement(s).

The Successful Bidder shall timely report all claims, demands, suits, actions, proceedings, liens or judgements to the County and shall, upon the receipt of any claim, demand, suit, action, proceeding, lien or judgement, not later than the fifteenth (15^{th}) day of each month; provide the County with a written report on each such matter, setting forth the status of each matter, the schedule or planned proceedings with respect to each matter and the cooperation or assistance, if any, of the County required by the Successful Bidder in the defense of each matter. The Successful Bidder's duty to defend, indemnify and hold the County harmless shall be absolute. It shall not abate or end by reason of the expiration or termination of the Contract and/or any Ensuing Agreement(s), unless otherwise agreed by the County in writing. The provisions of this section shall survive the termination of the Contract and shall remain in full force and effect with respect to all such matters no matter when they arise.

In the event of any dispute between the parties, as to whether a claim, demand, suit, action, proceeding, lien or judgement, that appears to have been caused by or appears to have arisen out of or in connection with acts or omissions of the County, the Bidder shall nevertheless fully defend such claim, demand, suit or action, proceeding, lien or judgement, until and unless there is a determination by a court of competent jurisdiction that the acts and omissions of the Bidder are not an issue in the matter.

The Successful Bidder's indemnification shall cover, and the Successful Bidder agrees to, indemnify the County, in the event the County is found to have been negligent for having selected the Successful Bidder to perform the work described in this request. The provision by the Successful Bidder of insurance shall not limit the liability of the Successful Bidder under the Contract and/or any Ensuing Agreement(s).

4.15 WAIVER OF SUBROGATION

The Successful Bidder and the Successful Bidder's insurance carrier waive any and all rights whatsoever with regard to subrogation against the County as an indirect party to any suit arising out of personal or property damages resulting from the Bidder's performance under this Contract and any Ensuing Agreement(s).

4.16 RELATIONSHIP OF THE PARTIES

The Successful Bidder shall be an independent contractor and shall assume all of the rights, obligations, liabilities, applicable to it as such independent contractor hereunder and any provisions herein which may appear to give the County the right to direct the Successful Bidder as to details of doing work herein covered, or to exercise a measure of control over the work, shall be deemed to mean that the Successful Bidder shall follow the desires of the County in the results of the work only. The County shall not retain or have the right to control the Successful Bidder's means, methods or details pertaining to the Successful Bidder's performance of the work. The County and the Successful Bidder hereby agree and declare that the Successful Bidder is an independent contractor and as such meets the qualifications of an "Independent Contractor" under Texas Workers Compensation Act, Texas Labor Code, Section 406.141, that the Successful Bidder is not an employee of the County, and that the Successful Bidder and its employees, agents and subcontractors shall not be entitled to workers compensation coverage or any other type of insurance coverage held by the County.

4.17 SOLE PROVIDER

The Successful Bidder agrees and acknowledges that it shall not be considered a sole provider of the goods and/or services described herein and that the County may contract with other providers of such goods and/or services if the County deems, at its sole discretion, that multiple providers of the same goods and/or services will serve the best interest of the County.

4.18 FORCE MAJEURE

If the party obligated to perform is prevented from performance by an act of war, order of legal authority, act of God, or other unavoidable cause not attributable to the fault or negligence of said party, the other party shall grant such party relief from the performance. The burden of proof for the need of such relief shall rest upon the party obligated to perform. To obtain release based on force majeure, the party obligated to perform shall file a written request with the other party.

4.19 SEVERABILITY

If any provision of this IFB, the Contract or any Ensuing Agreement(s) shall be held invalid or unenforceable by any court of competent jurisdiction, such holding shall not invalidate or render unenforceable any other provision thereof, but rather the entire IFB, Contract or any Ensuing Agreement (s) will be construed as if not containing the particular invalid or unenforceable provision or provisions, and the rights and obligation of the parties shall be construed and enforced in accordance therewith. The parties acknowledge that if any provision of this IFB, the Contract or any Ensuing Agreement(s) is determined to be invalid or unenforceable, it is the desire and intention of each that such provision be reformed and construed in such a manner that it will, to the maximum extent practicable, give effect to the intent of this IFB, the Contract or any Ensuing Agreement(s) and be deemed to be validated and enforceable.

4.20 EQUAL OPPORTUNITY

Neither party shall discriminate against any employee or applicant for employment because of race, color, sex, religion or national origin.

4.21 NOTICE

Any notice to be given shall be in writing and may be distributed by personal delivery, or by registered or certified mail, return receipt requested, addressed to the proper party, at the following address:

The County: Williamson County Purchasing Department
Attn: Purchasing Agent
901 South Austin Avenue
Georgetown, Texas 78626

The Bidder: Address set out in Bidder's Transmittal Letter.

Notices given in accordance with this provision shall be effective upon (1) receipt by the party to which notice is given, or (2) on the third (3rd) calendar day following mailing, whichever occurs first.

4.22 SALES AND USE TAX EXEMPTION

The County is a body, corporate and politic, under the laws of the State of Texas and claims exemption from sales and use taxes under Texas Tax Code, Section 151.309, as amended, and the services and/or goods subject hereof are being secured for use by the County.

4.23 COMPLIANCE WITH LAWS

The County and the Successful Bidder shall comply with all federal, state, and local laws, statutes, ordinances, rules and regulations, and the orders and decrees of any courts or administrative bodies or tribunals in any matter affecting the performance of the Contract and any Ensuing Agreement(s), including, without limitation, Workers' Compensation laws, salary and wage statutes and regulations, licensing laws and regulations. When required, the Successful Bidder shall furnish the County with certification of compliance with said laws, statues, ordinances, rules, regulations, orders, and decrees above specified.

4.24 INCORPORATION OF EXHIBITS, APPENDICES AND ATTACHMENTS

All of the Exhibits, Appendices and Attachments referred to herein are incorporated by reference as if set forth verbatim herein. Any conflicting terms in the Contract documents will be resolved at the sole discretion of the Commissioners Court.

4.25 NO WAIVER OF IMMUNITIES

Nothing herein shall be deemed to waive, modify or amend any legal defense available at law or in equity to the County, its past or present officers, employees, or agents, nor to create any legal rights or claim on behalf of any third party. The County does not waive, modify, or alter to any extent whatsoever the availability of the defense of governmental immunity under the laws of the State of Texas and of the United States.

4.26 NO WAIVER

The failure or delay of any party to enforce at any time or any period of time any of the provisions of this IFB, the Contract or any Ensuing Agreement(s) shall not constitute a present or future waiver of such provisions nor the right of either party to enforce each and every provision. Furthermore, no term or provision hereof shall be deemed waived and no breach excused unless such waiver or consent shall be in writing and signed by the party claimed to have waived or consented. Any consent by any party to, or waiver of, a breach by the other, whether expressed or implied, shall not constitute a consent to, waiver of or excuse for any other, different or subsequent breach.

4.27 CURRENT REVENUES

The obligations of the parties under the Contract and any Ensuing Agreement(s) do not constitute a general obligation or indebtedness of the County for which the County is obligated to levy, pledge, or collect any of taxation. It is understood and agreed that the County shall have the right to terminate the Contract and any Ensuing Agreement(s) at the end of any the County fiscal year if the governing body of the County does not appropriate sufficient funds as determined by the County's budget for the fiscal year in question. The County may effect such termination by giving written notice of termination to the Successful Bidder at the end of its then-current fiscal year.

4.28 FOB DESTINATION

To the extent applicable to this IFB, all of the items listed are to be Free On Board to final destination (FOB Destination) with all transportation charges if applicable to be included in the Bid, unless otherwise specified in the Invitation for Bids. The title and risk of loss of the goods shall not pass to the County until receipt and acceptance takes place at the FOB Destination point.

4.29 BINDING EFFECT

This Contract and any Ensuing Agreement(s) shall be binding upon and inure to the benefit of the parties and their respective permitted assigns and successors.

4.30 ASSIGNMENT

The Successful Bidder's interest and duties hereunder may not be assigned or delegated to a third party without the express written consent of the County.

4.31 SAFETY

The Successful Bidder is responsible for initiating, maintaining, and supervising all safety precautions and programs in connection with any services to be provided hereunder. The safety program shall comply with all applicable requirements of the current federal Occupational Safety and Health Act and all other applicable federal, state and local laws and regulations.

4.32 GENERAL OBLIGATIONS AND RELIANCE

The Successful Bidder shall perform all services and/or provide all goods, as well as those reasonably inferable and necessary for completion and provision of services and/or goods required hereunder. The Successful Bidder shall keep the County informed of the progress and quality of the services. The Successful Bidder agrees and acknowledges that the County is relying on the Successful Bidder's represented expertise and ability to provide the goods and/or services described herein. The Successful Bidder agrees to use its best efforts, skill, judgment, and abilities to perform its obligations in accordance with the highest standards used in the profession and to further the interests of the County accordance with the County's requirements and procedures. The Successful Bidder's duties, set forth herein, shall at no time be in any way diminished by reason of any approval by the County, n shall the Successful Bidder be released from any liability by reason of such approval by the County, it being understood that the County at all times is ultimately relying upon the Successful Bidder's skill and knowledge in performing the services and providing any goods required hereunder.

4.33 ESTIMATED QUANTITIES

To the extent applicable to this IFB, the estimated quantity of each item listed in this IFB is only estimate; the actual quantity to be purchased may be more or less. The County is not obligated purchase any minimum amount, and the County may purchase any reasonable amount greater than t estimate for the same unit price. Any limit on quantities available must be stated expressly in the Bid.

4.34 CONTRACTUAL DEVELOPMENT

The contents of the IFB and the Successful Bidder's Bid will become an integral part of the Contract, but may be modified, at the County's sole discretion, by provisions of an Ensuing Agreement. Therefore, the Bidder must agree to an inclusion of an Ensuing Agreement of the Bid specifications, terms and conditions of this IFB. If an Ensuing Agreement is required under this IFB, information relative to t Agreement will be located in the Additional Stipulations Section of this IFB.

4.35 SURVIVABILITY

All applicable agreements that were entered into between the Successful Bidder and the County, under the terms and conditions of the Contract and/or any Ensuing Agreement(s), shall survive the expiration or termination thereof for ninety (90) days unless a new contract has been awarded.

The County may exercise, by written notice to the Successful Bidder no later than ten (10) calendar days of the Contract expiration, this clause for emergencies only.

4.36 AIR QUALITY

In determining the overall best Bid, the County may, to the extent applicable, exercise the option granted to local governments under the Texas Local Government Code, Section 271.907.

This option allows the County to evaluate Bids and give preference to goods and/or services of a Bidder that demonstrates that the Bidder meets or exceeds any and all state or federal environmental standards, including voluntary standards, relating to air quality. If the Bid being submitted will have an effect on air quality for the County (as it relates to any state, federal, or voluntary air quality standard), then the Bidder is encouraged to provide information in narrative indicating the anticipated air quality impact. All Bidders are expected to meet all mandated state and federal air quality standards.

4.37 ENTIRE AGREEMENT

The Contract and any Ensuing Agreement(s) shall supersede all prior Agreements, written or oral between the Successful Bidder and the County and shall constitute the entire Agreement and understanding between the parties with respect to the services and/or goods to be provided. Each of the provisions herein shall be binding upon the parties and may not be waived, modified, amended or altered, except by writing signed by the Successful Bidder and the County.

4.38 PAYMENT

The County's payment for goods and services shall be governed by the Texas Government Code, Chapter 2251. An invoice shall be deemed overdue the thirty-first (31st) day after the later of the following:

A. The date the County receives the goods under the Contract;
B. The date the performance of the service under the Contract is completed; or
C. The date the Williamson County Auditor receives an invoice for the goods or services.

Interest charges for any overdue payments shall be paid by the County in accordance with Texas Government Code, Section 2251.025. More specifically, the rate of interest that shall accrue on a late payment is the rate in effect on September 1 of the County's fiscal year in which the payment becomes due. The said rate in effect on September 1 shall be equal to the sum of one (1) percent, and the prime rate published in the Wall Street Journal on the first (1st) day of July of the preceding fiscal year that does not fall on a Saturday or Sunday.

In the event that an error appears in an invoice submitted by the Successful Bidder, the County shall notify the Successful Bidder of the error not later than the twenty-first (21st) day after the date the County receives the invoice. If the error is resolved in favor of the Successful Bidder, the Successful Bidder shall be entitled to receive interest on the unpaid balance of the invoice submitted by the Successful Bidder beginning on the date that the payment for the invoice became overdue. If the error is resolved in favor of the County, the Successful Bidder shall submit a corrected invoice that must be paid in accordance within the time set forth above. The unpaid balance accrues interest as provided by the Texas Government Code, Chapter 2251, if the corrected invoice is not paid by the appropriate date.

As a minimum, invoices shall include:

A. Name, address, and telephone number of the Successful Bidder and similar information in the event the payment is to be made to a different address.

B. The County Contract, Purchase Order.

C. Identification of items or service as outlined in the Contract.

D. Quantity or quantities, applicable unit prices, total prices and total amount.

E. Any additional payment information which may be called for by the Contract.

Payment inquiries should be directed to the following address:

Williamson County Auditor's Office, Accounts Payable Department
Email: accountspayable@wilco.org
Phone: 512-943-1500

4.39 CONTRACTUAL FORMATION AND ENSUING AGREEMENT

The IFB and the Bidder's Bid, when properly accepted by the Commissioners Court, shall constitute a Contract equally binding between the Successful Bidder and the County.

If an Ensuing Agreement is required by this IFB, that information will be provided in Special Provisions section of this IFB. The Successful Bidder shall be required to execute the Agreement at the Williamson County Purchasing Department approximately ten (10) calendar days after the Successful Bidder is notified of award. The Ensuing Agreement shall be in the same form as the Agreement which is attached to the end of this IFB. The only anticipated changes in the Ensuing Agreement will be to include additional exhibits, to fill in blanks to identify the Successful Bidder, and terms relating to the compensation, or to revise the Agreement to accommodate corrections, changes in the scope of services, or changes pursuant to Addenda issued. **Bidders should raise any questions regarding the terms of the Agreement in the form of written questions or submittals as described in the Public Announcement and General Information portion of this IFB.** Because the signed Ensuing Agreement will be substantively and substantially derived from the attached Agreement, each Bidder is urged to seek independent legal counsel as to any questions about the terms, conditions or provisions contained in the Agreement *before* submitting a Bid. Again, the attached Agreement, if applicable, contains important legal provisions and is considered part and parcel of this IFB. Failure or refusal to sign aforesaid Agreement shall be grounds for the County to revoke any award which has been issued, forfeit Bid security, if applicable, and select another Bidder.

4.40 COOPERATIVE PURCHASING PROGRAM

During the term of the Contract resulting from this IFB, the County would like to afford the same prices, terms and conditions to other political subdivisions or public entities. Another entity's participation in the Contract resulting from this IFB is subject to a properly authorized Purchasing Cooperative Inter-local Agreement with the County. Any liability created by purchase orders issued against the Contract shall be the sole responsibility of the governmental agency placing the order.

4.41 INSURANCE REQUIREMENTS

To the extent applicable Insurance information will appear in the Additional Stipulations section that is in this IFB Package.

4.42 BIDDERS BOND, WARRANTY BOND, PERFORMANCE AND PAYMENT BONDS

To the extent applicable Bond information will appear in the Additional Stipulations section that is in this IFB Package.

4.43 LEGAL LIABILITY INFORMATION

The Successful Bidder shall disclose all legal liability information by listing any pending litigation anticipated litigation that your firm is involved in including, but not limited to, potential or actual legal matters with private parties and any local, state, federal or international governmental entities. The County reserves the right to consider legal liability information in the recommendation of any proposed contract to the Commissioners Court.

4.44 INCLEMENT WEATHER

In case of inclement weather or any other unforeseen event causing the County to close for business on the date of a Bid submission deadline, the Bid closing will automatically be postponed until the next business day the County is open. If inclement weather conditions or any other unforeseen event causes delays in carrier service operations, the County may issue an Addendum to all known Bidders interested in the project to extend the deadline. It will be the responsibility of the Bidder to notify the County of their interest in the project if these conditions are impacting their ability to turn in a submission within the stated deadline. The County reserves the right to make the final judgement call to extend any deadline.

4.45 PREVAILING WAGE RATES

To the extent this procurement is for the construction of a public work, including a building, highway, road, excavation, and repair work or other project development or improvement, paid for in whole or in part from public funds, without regard to whether the work is done under public supervision or direction, Texas Government Code, Chapter 2258, shall apply and the contractor shall pay not less than the wage scale of the various classes of labor as shown on the "Prevailing Wage Schedule" provided by the County. Pursuant to Texas Government Code, Section 2258.022(a)(2), the County has determined the general prevailing rate of the "Prevailing Wage Schedule" in the locality in which the public work is to be performed for each craft or type of worker needed to execute the contract and the prevailing rate for legal holiday and overtime work by using the prevailing wage rate as determined by the United States Department of Labor in accordance with the United States Code, Section 276a (Davis-Bacon Act).

The specified wage rates are minimum rates only, and are not representations that qualified labor adequate to perform the work is available locally at the prevailing wage rates. The County is not bound to pay—and will not consider—any claims for additional compensation made by any contractor because the contractor pays wages in excess of the applicable minimum rate contained in the Contract Documents. The "Prevailing Wage Schedule" is not a representation that quantities of qualified labor adequate to perform the work may be found locally at the specified wage rates.

For classifications not shown, workers shall not be paid less than the wage indicated for laborers. The contractor shall notify each worker commencing work on the project the worker's job classification and the established minimum wage rate required to be paid, as well as the actual amount being paid. The notice must be delivered to and signed in acknowledgement of receipt by the employee and must list both the monetary wages and fringe benefits to be paid or furnished for each classification in which the worker is assigned duties. When requested by the County, competent evidence of compliance with the Texas Prevailing Wage Law shall be furnished by contractor. A copy of each worker wage rate notification shall be submitted to the County with the Application for Payment for the period during which the worker began on-site activities.

Should the contractor at any time become aware that a particular skill or trade not reflected on the County's "Prevailing Wage Schedule" will be or is being employed in the work, whether by the contractor or by a subcontractor, the contractor shall promptly inform the County and shall specify a wage rate for that skill or trade, which shall bind the contractor.

The contractor and any subcontractor shall pay to the County a penalty of sixty dollars ($60.00) for each worker employed for each calendar day, or portion thereof, that the worker is paid less than the wage rates stipulated in the "Prevailing Wage Schedule" or any supplement thereto. The contractor and each subcontractor shall keep, or cause to be kept, an accurate record showing the names and occupations of all workers employed in connection with the work, and showing the actual per diem wages paid to each worker, which records shall be open at all reasonable hours for the inspection by the County.

Within thirty-one (31) days of receipt of information concerning a violation of the Texas Government Code Chapter 2258, the County shall make an initial determination as to whether good cause exists to believe a violation occurred. The County's decision on the initial determination shall be reduced to writing and sent to the contractor or subcontractor against whom the violation was alleged, and to the affected worker. When a good cause finding is made, the County shall retain the full amounts claimed by the claimant or claimants as the difference between wages paid and wages due under the "Prevailing Wage Schedule" and any supplements thereto, together with the applicable penalties, such amounts being subtracted from successive progress payments pending a final decision on the violation.

After the County makes its initial determination, the affected contractor or subcontractor and worker have fourteen (14) calendar days in which to resolve the issue of whether a violation occurred, including the amount that should be retained by the County or paid to the affected worker. If the contractor or subcontractor and affected worker reach an agreement concerning the worker's claim, the contractor shall promptly notify the County in a written document signed by the worker. It the contractor or Subcontractor and affected worker do not agree before the fifteenth (15th) calendar day after the County determination, the contractor or subcontractor and affected worker must participate in binding arbitration in accordance with the Texas General Arbitration Act, Chapter 171, (Texas Civil Practice and Remedies Code). The parties to the arbitration have ten (10) calendar days after the expiration of the fifteen (15) calendar days referred to above, to agree on an arbitrator; if by the eleventh (11th) calendar day there is no agreement to an arbitrator, a district court shall appoint an arbitrator on the petition of any of the parties to the arbitration.

If an arbitrator determines that a violation has occurred, the arbitrator shall assess and award against the contractor or subcontractor the amount of penalty as provided above and the amount owed the worker. The County may use any amounts retained hereunder to pay the worker the amount as designated in the arbitration award. If the County has not retained enough from the contractor or subcontractor to pay the worker in accordance with the arbitration award, the worker has a right of action against the contractor and subcontractor as appropriate, and the surety of either to receive the amount owed, attorneys' fees and court costs. The contractor shall promptly furnish a copy of the arbitration award to the County.

Money retained pursuant to the provisions above shall be used to pay the claimant or claimants the difference between the amount the worker received in wages for labor on the project at the rate paid by the contractor or subcontractor and the amount the worker would have received at the general prevailing wage rate as provided by the agreement of the claimant and the contractor or subcontractor affected, or in the arbitrator's award. The full statutory penalty of sixty dollars ($60.00) per calendar day of violation per worker shall be retained by Williamson County to offset its administrative costs, pursuant to Texas Government Code, Section, 2258.023. Any retained funds in excess of these amounts shall be paid to the contractor on the earlier of the next progress payment or final payment. Provided, however, that the County shall have no duty to release any funds to either the claimant or the contractor until it has received the notices of agreement or the arbitration award as provided under the provision herein-above.

4.46 CONFIDENTIALITY

The Bidder expressly agrees that it will not use any direct or incidental confidential information that may be obtained while working in a governmental setting for its own benefit, and agrees that it will not access unauthorized areas or confidential information and it will not disclose any information to unauthorized third parties, and will take care to guard the security of the information at all times.

Additional Stipulations

1 Additional Stipulations

1.1 Introduction

The Bid evaluation and selection process is detailed in this section, as are other factors, and the format in which the Price Bid of each Bid should be submitted.

1.2 Contract Administrator

J. Terron Evertson, P.E. (or successor), County Engineer, Williamson County 3151 South East Inner Loop, Suite B, Georgetown, Texas shall serve as the County's Technical Contact with designated responsibility to ensure compliance with the requirements of the Contract and any Ensuing Agreement, such as, but not limited to, acceptance, inspection and delivery. The Technical Contact together with the Purchasing Department will serve as a liaison between the Williamson County Commissioners Court and the Successful Bidder.

1.3 Time for Performance

A time frame of sixty (60) days (fifty (50) to substantial completion / sixty (60) to final completion) is given for completion of plans on this bid. This may begin at the time specified by the County within the three hundred sixty-five (365) days of the pricing quoted on this bid, starting on the day of award. The Contractor will be given written notice to begin work on this project. The Work on this project shall begin within five (5) calendar days after such notification.

Liquidated damages for failure to substantially complete the work within the allotted time will be applied. Liquidated damages are $200 per working day.

The Contractor will be given written notice to begin work on this project. Work on this project shall begin within five (5) working days after such notification. Failure to begin work within the allotted time will result in liquidated damages being incurred at the rate of $200 per working day.

1.4 Performance and Payment Bonds

To the extent, this IFB is for the procurement of a public work contract, and the following shall apply:

Texas Local Government Code, Chapter 262.032, governs the requirements for performance bonds for government entities making public work contracts. A performance bond is required if the contract is in excess of $50,000 and is to be made for the full amount of the contract.

Texas Government Code, Chapter 2253.021, governs the requirements for payment bonds for government entities making public work contracts. A payment bond is required if the contract is in excess of $25,000 and is to be made for the full amount of the contract.

The bonds are to be executed and delivered to the County **prior to issuing Notice to Proceed**. The bonds must be executed by a corporate surety or sureties in accordance with the Texas Insurance Code. For unit price contracts, the total contract price shall be estimated and calculated by multiplying the estimated quantities to the Bidder's unit bid price.

If the public works contract is less than $50,000, the performance bond will not be required as long as the contract provides that payment is not due until the work is completed and accepted by the County.

1.5 Bidder's Bonds

All Bids requiring a Bid Bond shall be accompanied by a certified cashier's check upon a National or State bank in an amount not less than five (5) percent of the total maximum bid price, payable without recourse to the County, or a bid bond in the same amount from a reliable surety company, as a guarantee that the Bidder will enter into a contract and **execute and deliver to the County performance and payment bonds prior to being recommended for award of the Contract**. **Bid guarantees must be submitted in the same sealed envelope with the Bid**. Bids submitted without check or bid bonds will not be considered. For unit price contracts, the total maximum bid price shall be estimated and calculated by multiplying the estimated quantities to the unit bid price.

1.6 Warranty Bonds

When a Warranty Bond is required it shall be submitted by the Successful Bidder prior to issuing Notice to Proceed, and shall be in the amount of **twenty (20) percent of the total project construction cost.** This Warranty Bond shall be security for the true and faithful performance of all warranties for two (2) years from the date of final payment. For unit price contracts, the total project construction cost shall be estimated and calculated by multiplying the estimated quantities to the bidder's unit bid price.

1.7 Insurance Requirements

By signing its Bid, the Bidder agrees to maintain at all times during any term of the Contract and any ensuing Agreement at Bidder's cost, insurance in accordance with this provision.

Bidder will be required to submit Certificates of Insurance **prior to contract award and any renewals.**

All certificates of insurance coverage as specified below must be provided to the following location:

Williamson County Purchasing Department
901 S Austin Ave
Georgetown, Texas 78626

Failure to comply with these Insurance Requirements may result in the termination of the Contract and any ensuing Agreement(s) between the Successful Bidder and County.

The following coverage limits shall be required at a minimum:

A. Worker's Compensation — Statutory – Texas Law

B. Employer's Liability:

Bodily Injury by Accident	$500,000 Ea. Accident
Bodily Injury by Disease	$500,000 Ea. Employee
Bodily Injury by Disease	$500,000 Policy Limit

C. Comprehensive general liability including completed operations and contractual liability insurance for bodily injury, death, or property damages in the following amounts:

COVERAGE	PER PERSON	PER OCCURRENCE
Comprehensive General Liability	$1,000,000	$1,000,000
Aggregate policy limits:	$2,000,000	

Successful Bidder's property will not be covered by any insurance that may be carried by the County. Successful Bidder assumes the risk of loss on its contents and property that are situated on/in/around the County property. The Successful Bidder is strongly encouraged to obtain insurance on its property to the extent deemed necessary by the Successful Bidder.

The deductible for an insurance policy required hereunder shall not exceed $100,000. **The County shall be named as an additional insured under any policy of insurance required hereunder.**

Successful Bidder shall not commence any work until it has obtained all required insurance and such insurance has been approved by County. Successful Bidder shall not allow any subcontractor(s) to commence work to be performed until all required insurance has been obtained by such subcontractor(s) and approved by County. Approval of the insurance by County shall not relieve or decrease the liability of Successful Bidder or its subcontractor(s) hereunder.

The required insurance must be written by a company approved to do business in the State of Texas with a financial standing of at least an A- rating, as reflected in Best's insurance ratings or by a similar rating system recognized within the insurance industry at the time the policy is issued. Successful Bidder shall furnish County with a certificate of coverage issued by the insurer. Successful Bidder shall not cause any insurance to be canceled nor permit any insurance to lapse. ALL INSURANCE CERTIFICATES SHALL INCLUDE A CLAUSE TO THE EFFECT THAT THE POLICY SHALL NOT BE CANCELED OR REDUCED, RESTRICTED OR LIMITED UNTIL TEN (10) CALENDAR DAYS AFTER COUNTY HAS RECEIVED WRITTEN NOTICE AS EVIDENCED BY RETURN RECEIPT OF REGISTERED OR CERTIFIED LETTER.

It is the intention of the County, and agreed to and hereby acknowledged by the Successful Bidder, that no provision of this Contract or any ensuing Agreement shall be construed to require the County to submit to mandatory arbitration or mediation in the settlement of any claim, cause of action or dispute, except as specifically required in direct connection with an insurance claim or threat of claim under an insurance policy required hereunder which absolutely requires arbitration or mediation of such claim, or as otherwise required by law or a court of law with jurisdiction over the provisions of this Contract or any ensuing Agreement.

Workers' Compensation Coverage Requirements

The Texas Labor Code, Section 406.096, requires workers' compensation insurance coverage for all persons providing services on a building or construction project for a governmental entity such as the County. The rule requires the County to timely obtain certificates of coverage and retain them for the duration of the project. The rule also sets out the language to be included in the Bid specifications and in contracts awarded by a governmental entity and the information required to be in the posted notice to employees. The rule is adopted under the Texas Labor Code, Section 402.061.

The information provided below is a result of this rule. By submitting your Bid to the County, you are acknowledging that this rule is a part of these Bid specifications, and that you will observe and abide by all of the requirements outlined in the rule. You are further agreeing that should your Bid be accepted by the Williamson County Commissioners Court, the necessary certificates of coverage showing workers' compensation coverage, will be provided to the following name and address prior to beginning work:

Williamson County Purchasing Department
901 S. Austin Ave.
Georgetown, TX 78626

Failure to comply with this request may result in termination of the Contract and any ensuing Agreement. If you have any questions related to this ruling and/or requirement, you are encouraged to contact either the Williamson County Purchasing Department at (512) 943-1546, or you may call the Texas Workers' Compensation Commission at (800) 372-7713.

A. The following words and terms, when used in this provision, shall have the following meanings. Terms not defined in this rule shall have the meaning defined in the Texas Labor Code, if so defined.

1. Certificate of coverage (certificate) – A copy of a certificate of insurance, a certificate of authority to self-insure issued by the commission, or a workers' compensation coverage agreement (TWCC-81, TWCC-82, TWCC-83, or TWCC-84), showing statutory workers' compensation insurance coverage for the person's or entity's employees (including those subject to a coverage agreement) providing services on a project, for the duration of the project.

2. Building or Construction – Has the meaning defined in the Texas Labor Code, Section 406.096(e)(1).

3. Contractor – A person bidding for or awarded a building or construction project by Williamson County.

4. Coverage – Workers' compensation insurance meeting the statutory requirements of the Texas Labor Code, Section 401.011(44).

5. Coverage agreement – A written agreement on form TWCC-81, form TWCC-82, form TWCC-83, or form TWCC-84, filed with the Texas Workers' Compensation Commission which establishes a relationship between the parties for purposes of the Texas Workers' Compensation Act, pursuant to the Texas Labor Code, Chapter 406, Subchapters F and G, as one of employer/employee and establishes who will be responsible for providing workers' compensation coverage for persons providing services on the project.

6. Duration of the project--Includes the time from the beginning of work on the project until the work on the project has been completed and accepted by the County.

7. Persons providing services on the project ("subcontractor" in the Texas Labor Code, Section 406.096) – includes all persons or entities performing all or part of the services the contractor has undertaken to perform on the project, regardless of whether that person contracted directly with the contractor and regardless of whether that person has employees. This includes, without limitation, independent contractors, subcontractors, leasing companies, motor carriers, owner-operators, employees of any such entity, or employees of any entity which furnishes persons to provide services on the project. "Services" include, without limitation, providing, hauling, or delivering equipment or materials, or providing labor, transportation, or other service related to a project. "Services" does not include activities unrelated to the project, such as food/beverage vendors, office supply deliveries, and delivery of portable toilets.

8. Project – Includes the provision of all services related to a building or construction contract for the County.

B. The contractor shall provide coverage, based on proper reporting of classification codes and payroll amounts and filing of any coverage agreements, which meets the statutory requirements of the Texas Labor Code, Section 401.011(44), for all employees of the contractor providing services on the project, for the duration of the project.

C. The Contractor must provide a certificate of workers compensation coverage to Williamson County prior to being awarded the Contract.

D. If the coverage period shown on the contractor's current certificate of coverage ends during the duration of the project, the contractor must, prior to the end of the coverage period, file a new certificate of coverage with Williamson County showing that coverage has been extended.

E. The contractor shall obtain from each person providing services on a project, and provide to the County:

1. A certificate of coverage, prior to that person beginning work on the project, so Williamson County will have on file certificates of coverage showing coverage for all persons providing services on the project; and

2. No later than seven days after receipt by the contractor, a new certificate of coverage showing extension of coverage, if the coverage period shown on the current certificate of coverage ends during the duration of the project.

F. The contractor shall retain all required certificates of coverage for the duration of the project and for one year thereafter.

G. The contractor shall notify the County in writing by certified mail or personal delivery, within ten (10) days after the contractor knew or should have known, of any change that materially affects the provision of coverage of any person providing services on the project.

H. The contractor shall post on each project site a notice, in the text, form and manner prescribed by the Texas Workers' Compensation Commission, informing all persons providing services on the project that they are required to be covered, and stating how a person may verify coverage and report lack of coverage.

I. The contractor shall contractually require each person with whom it contracts to provide services on a project, to:

1. Provide coverage, based on proper reporting of classification codes and payroll amounts and filing of any coverage agreements, which meets the statutory requirements of Texas Labor Code, Section 401.011(44), for all of its employees providing services on the project, for the duration of the project;

2. Provide to the contractor, prior to that person beginning work on the project, a certificate of coverage showing that coverage is being provided for all employees of the person providing services on the project, for the duration of the project;

3. Provide the contractor, prior to the end of the coverage period, a new certificate of coverage showing extension of coverage, if the coverage period shown on the current certificate of coverage ends during the duration of the project;

4. Obtain from each other person with whom it contracts, and provide to the contractor:

    i. (a) a certificate of coverage, prior to the other person beginning work on the project; and
    ii. (b) a new certificate of coverage showing extension of coverage, prior to the end of the coverage period, if the coverage period shown on the current certificate of coverage ends during the duration of the project;

5. Retain all required certificates of coverage on file for the duration of the project and for one year thereafter;

6. Notify the County in writing by certified mail or personal delivery, within ten (10) days after the person knew or should have known, of any change that materially affects the provision of coverage of any person providing services on the project; and

7. Contractually require each person with whom it contracts, to perform as required by paragraphs 1 – 7, with the certificates of coverage to be provided to the person for whom they are providing services

J. By signing this Contract or providing or causing to be provided a certificate of coverage, the contractor is representing to Williamson County that all employees of the contractor who will provide services on the project will be covered by workers' compensation coverage for the duration of the project, that the coverage will be based on proper reporting of classification codes and payroll amounts, and that all coverage agreements will be filed with the appropriate insurance carrier or, in the case of a self-insured, with the commission's Division of Self-Insurance Regulation. Providing false or misleading information may subject the contractor to administrative penalties, criminal penalties, civil penalties, or other civil actions.

K. The contractor's failure to comply with any of these provisions is a breach of Contract by the contractor which entitles the County to declare the contract void if the contractor does not remedy the breach within ten (10) days after receipt of notice of breach from the County.

County: Williamson

Project Name: FY 19 Cross Culvert Replacements

GENERAL NOTES AND TECHNICAL SPECIFICATIONS

DEFINITION OF TERMS

Asphalt Season: April 1 through September 30.

County: Williamson County acting through the Road and Bridge Division.

Contractor: Successful bidder of the attached Invitation for Bid.

Engineer: Williamson County Engineer of Road and Bridge Division, or designee.

Inspector: Engineer's designee assigned full, or part, time to the contractor's crew for the oversight of the work.

Specifications: Texas Department of Transportation Standard Specifications for Construction and Maintenance of Highways, Streets, and Bridges 2014.

TxDOT: Texas Department of Transportation

Working Day: Monday through Friday (excluding County approved holidays), if weather permits the performance of the contract (as determined by the Inspector) for a continuous period of at least 6 hrs. (excluding lunch) between 8:00 A.M. and 5:00 P.M.

CONTROL OF MATERIALS

Source Control

The Contractor shall use only materials that meet Contract requirements. Unless otherwise specified or approved by the Engineer, the Contractor shall use new materials for the work. The Contractor shall secure the Engineer's approval of the proposed source of materials to be used before their delivery to the site. Materials can be approved by the Engineer at a supply source or staging area but may be re-inspected at the job site. Contractor shall be responsible for cost of additional sampling and testing if material source changes.

Material Quality

It is the Contractor's responsibility to correct or remove materials that fail to meet the Contract requirements.

Materials not meeting Contract requirements will be rejected, unless the Engineer approves corrective actions. Upon rejection by the Engineer, the Contractor must immediately remove and replace rejected materials.

If the Contractor does not comply with this Article, the County may remove and replace defective material. The cost of testing, removal, and replacement will be deducted from invoice submitted to the County.

County: Williamson

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Manufacturer Warranties
Contractor shall transfer to the County warranties and guarantees required by the Contract, from Contractor sources, or received as part of normal trade practice.

Plant Inspection and Testing
The Engineer may, but is not obligated to, inspect materials at the acquisition or manufacturing source. Material samples will be obtained and tested for compliance with quality requirements. Materials produced under County inspection are for County use only unless released in writing by the Engineer.

If inspection is at the plant, Contractor shall meet the following conditions unless otherwise specified:

- Cooperate fully and assist the Engineer during the inspection.
- Ensure the Engineer has full access to all parts of the plant used to manufacture or produce materials.
- In accordance with pertinent Items and the Contract, provide a facility at the plant for use by the Engineer as an office or laboratory.

The Engineer may provide inspection for periods other than daylight hours if:

- Continuous production of materials for County use is necessary due to the production volume being handled at the plant, and
- The lighting is adequate to allow satisfactory inspection.

The Contractor shall provide copies of all test results to the County and the Engineer prior to the County's acceptance of improvements.

The Contractor shall coordinate with the County's field representative 48 hours prior to schedule density testing. The County's field representative shall witness all testing.

GENERAL NOTES

All work performed and all products furnished under the provision of the contract shall comply with requirements which pertain to the various Items of work included herein as *Standard Specification for Construction of Highways, Streets and Bridges* of the Texas Department of Transportation, adopted November 1, 2014, and as amended and/or updated, which is incorporated herein by reference for all purposes. In the event that any specification set out herein conflicts with said TxDOT specifications, the specification set out herein shall control and govern.

The Contractor will be given written Notice to Proceed on this project. The project shall begin within five (5) working days after such notification and shall continue for sixty (60) working days.

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Contractor shall not begin asphalt work prior to the beginning of the asphalt season (April 1), nor after the ending of the asphalt season (September 30), except with the approval of the Engineer.

Contractor specifically acknowledges that Williamson County will sustain damages for each working day beyond the date in which construction work is to begin. Once the written Notice to Proceed is given by Williamson County, the Contractor has five (5) working days to begin the work. Contractor agrees that two-hundred and No/100 Dollars ($200.00) per working day shall be retained by Williamson County from any amounts due Contractor for every day that Contractor does not begin the construction work.

Contractor specifically acknowledges that Williamson County will sustain damages for each working day beyond the required dates of substantial completion of the project. Because of the impracticality and extreme difficulty of fixing and ascertaining Williamson County's actual damages, Contractor agrees that two-hundred and No/100 Dollars ($200.00) per working day shall be retained by Williamson County from any amounts due Contractor for every day that Contractor does not complete the project.

Periods of time (i) during which Williamson County suspends the work by written notice to Contractor, or (ii) during which contractor has performed work and is waiting for Williamson County’s acceptance, or (iii) during which a delay directly related to delays caused by "Acts of God", non-county governmental processes, national emergency, or any other causes beyond Contractor's or Williamson County's reasonable control, shall not be taken into account in computing the amount retained. In the event that work received by Williamson County is found to be incomplete, the period of time from the end of the performance of the work to the receipt of subsequent performance necessary to produce completed work will be taken into account in computing the number of days and the amount retained.

Contractor shall submit a basic work plan, bar chart, or schedule for the Engineer to review one week prior to commencement of work.

Once work begins, Contractor shall continuously execute the work until completion at each culvert crossing site, unless otherwise directed by the Engineer.

The Contractor shall determine the exact location of all existing utilities before commencing work, and is fully responsible for any and all damages associated by Contractor's failure to locate and preserve utilities.

The actual quantity required may be varied from the estimated quantities in the contract. The Contractor shall be compensated for completed work based on actual quantities per bid item.

If multiple days are required to complete work, Contractor shall not leave work in hazardous conditions, as determined by the Engineer.

Do not park equipment or make stockpiles where driver sight distance to businesses and side street intersections is obstructed, especially after work hours. If it is necessary to park where

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driver's views are blocked, Contractor shall make every effort to flag traffic accordingly. Give the travelling public first priority.

The Contractor shall be responsible for marking every 100 foot station, and shall maintain the markings at the applicable culvert crossing site for the duration of the project. This work shall be considered subsidiary to the various bid Items.

An English-speaking superintendent shall be available on the project at all times when work is being performed. The Contractor shall provide the Construction Inspector with contact information for the superintendent.

If any significant recharge features, such as sinkholes, caves, or any other subterranean openings are discovered during construction or core sampling, all activities near the feature must be immediately suspended. The Construction Inspector must be contacted for evaluation. The discovery may require TCEQ review and approval for the methods proposed to protect the aquifer from any potential adverse impacts.

Construction vehicles may be restricted from traversing or utilizing existing roadways, unprotected construction areas, and areas with vegetative cover, as determined by the Construction Inspector.

Contractor's equipment and vehicles shall not be maintained on-site during construction, except at designated maintenance sites as approved by the Construction Inspector.

Any soils contaminated during construction of the proposed project shall be transported from the site and properly disposed of off-site, off the contributing zone, and off any draining to the recharge zone of the Edwards Aquifer. Payment for this work shall be considered subsidiary to the pertinent bid Items.

Contractor shall provide at least one portable restroom near the work site(s) at all times in order to provide a bathroom to individuals providing work hereunder. Contractor shall monitor and prevent its employees and any of its subcontractors that are providing work on the project from urinating or defecating on property in, on or adjacent to the areas in which work is being performed.

Contractor shall maintain positive drainage for permanent and temporary site conditions for duration of project.

Contractor shall comply with insurance requirements dictated within this contract.

Weekend and holiday work is allowed with prior approval by the Engineer.

The Contractor shall perform work during appropriate weather conditions, unless otherwise directed by the Engineer. If work is performed at the Contractor's option during, or prior to,

County: Williamson

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inclement weather conditions and the work is damaged, the Contractor is responsible for all costs associated with replacing the work.

Testing may be performed at the request of the County any time during the length of the contract through an independent testing laboratory. Testing may be requested by the County on any and/or all items on this contract. If the results determine the item did not meet specifications, then the cost of the testing will be borne by the Contractor. If the results of the test determine that the item did meet specifications, the cost of the testing will be borne by the County.

All construction equipment involved in roadway work shall be equipped with a permanently mounted 360 degree revolving or strobe warning light with amber lens. This light shall have a minimum lens height of 5 inches and a diameter of 5 inches.

This light shall have a mounting height of not less than 6 feet above the roadway surface and shall be visible from all sides. This equipment shall also have attached at each side of the rear end of the vehicle an approved orange warning flag mounted not less than 6 feet above the roadway surface.

ABOVE-GROUND STORAGE TANKS

Shall not be permitted.

BLASTING

No Blasting will be allowed on the project.

ENTRY INTO AND PROTECTION OF ADJACENT PROPERTIES

Design of this project did not contemplate a need to enter adjacent properties except where either permanent or temporary working easements are shown on the Plans. Should it be necessary during construction of the work to enter on adjacent properties, the County shall be notified. The Contractor shall be responsible for all arrangements to enter and shall be liable for repair of fences and restoration of any property damage outside of the right of way and easements shown in the plans.

Access to the right of way and easements adjacent to private property shall be coordinated with the adjacent property owner at least 48 hours in advance.

LOCATION AND PROTECTION OF UTILITIES

Notwithstanding any other provision of this Contract, the Contractor shall be solely responsible for the location and protection of any and all public and/or private utility lines and utility customer service lines in the work area. The Contractor shall exercise due care to locate and to mark, uncover or otherwise protect all such lines in the construction zone and any of the Contractor's work or storage area. Upon request, the County may provide such information that it

County: Williamson

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has about the location and grade of water, gas, telephone cable TV and electric lines and other utilities in the work area, but such information shall not relieve or be deemed to be in satisfaction of the Contractor's obligation hereunder, which shall be primary and nondelegable. Any such lines damaged by the Contractor's operations shall be immediately repaired by the Contractor or he shall cause such damage to be repaired at his expense. Contractor shall contact Dig-Test at 1-800-344-8377, for utility verification prior to beginning construction.

SURPLUS MATERIAL

Excavated or surplus natural soil and rock material, unless otherwise noted in the Plan or Specifications, shall be known a "spoil" and properly disposed of by the Contractor off-site at his sole expense. Any permits necessary for the disposal of such material shall be acquired by the Contractor at his expense.

Any surplus material defined as "solid waste" under the Texas Commission on Environmental Quality Municipal Solid Waste Regulations shall be disposed of in compliance with all applicable solid waste management regulations.

Final cleanup will include the removal of excess material considered detrimental to vegetation growth within the working area. Materials such as excess concrete and other materials, as specified by the Engineer will be removed at the Contractor's expense.

RESTORATION/REVEGETATION

All disturbed areas within the right of way, easements and limits of construction shall be restored. Restoration shall include all topsoil, seeding/sodding, watering, fertilizer, labor and equipment necessary to complete the project in accordance with the Plans and Specifications. Restoration shall be installed and vegetation established prior to final acceptance of the project, or as approved by the County.

Care shall be exercised to prevent damage to all property in and around the construction zone. The Contractor shall be liable for the repair and restoration of any property damaged as a result of the Contractor’s prosecution of the work. This shall include, but is not limited to revegetation of all areas damaged or destroyed by construction. Contractor will be held liable and responsible for such areas until growth is reestablished to the satisfaction of the County.

Ornamental landscape plantings of trees, shrubs and grasses that are damaged or destroyed during construction shall be replaced with plant material of comparable size and quality approved by the County.

Revegetation measures will begin as soon as practical. The County reserves the right to require the immediate installation of revegetation measures whenever deemed necessary.

County: Williamson

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The County reserves the right to require additional revegetation measures deemed necessary at any time after construction has begun until the County has accepted the erosion control measures and revegetation measures.

The Contractor shall be responsible for maintaining, repairing or replacing all erosion control devices as may be directed by the Construction Inspector. This work will be considered subsidiary to the various bid Items.

Item 100
The Contractor shall notify the Construction Inspector prior to clearing operations. Upon notification, the Inspector will schedule a walk-through with the Contractor and designate all trees and other features to be protected during construction. The Contractor shall not begin any clearing of the right-of-way prior to this walk-through. The designated features shall be protected in accordance with the plans and specifications, or as directed by the Inspector. No fences shall be removed without notification to the Inspector.

Removal of any obstructions on the right of way, including fences, that are not shown on the plans is included under preparing right of way. The Inspector shall be notified prior to removal of obstructions. All right-of-way clearing operations will be coordinated with the project's SW3P and as directed or approved by the Construction Inspector.

The Contractor may be required to trim and remove brush and trees in order to construct the project or to provide a horizontal clearance of approximately 2 feet inside the right-of-way line and a vertical clearance of at least 14 feet. For this operation, no vertical flailing equipment shall be used and the method shall be approved by the Construction Inspector.

Burning of brush will not be permitted, unless otherwise directed by the County.

The Contractor is responsible for plugging and capping all irrigation systems at the right-of-way line. The Contractor shall notify the County at least 48-hours in advance of performing modifications to irrigation systems.

De-watering of creek beds and stock tanks shall be considered subsidiary.

Item 247
The lift thickness will be 4” to 6” unless shown in the plans. When compacted in multiple lifts, the density of the bottom and middle lifts will be 95% and 98% of the maximum dry density, respectively.

Correction of subgrade soft spots is subsidiary.

Complete all subgrade, ditches, slopes, and place all drainage structures to conform to required lines, grades, and cross-sections, as shown and directed, prior to the placement of Flex Base.

Do not use a vibratory roller to compact the material directly over a box culvert.

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Item 340
Recycled Asphalt Shingles (RAS) or Recycled Asphalt Pavement (RAP) are not permitted for surface course.

Item 402
Temporary special shoring is required for headwalls 5’ and taller. Temporary special shoring shall be considered subsidiary.

Item 432
Typical concrete riprap shall be placed at a 5" thickness or as directed by the Engineer.

Item 460 and Item 462
All excavation necessary to install the pipe and boxes shall be replaced with flowable backfill. Flowable backfill shall be considered subsidiary to Items 460 and 462.

Item 460
Field adjust pipe end to maintain the necessary slope. Field cutting of pipe end is allowed. Coat all field cuts with asphalt paint.

All pipe band coupler shall be located in the roadway embankment NOT underneath the roadbed.

Item 462
For pre-cast units, the fill material between the boxes shall consist of concrete aggregate with two sacks of Portland Cement per cubic yard (two sack concrete). The two sacks of cement are part of the box culvert work and shall be considered subsidiary to this Bid Item.

Structural excavation and bedding shall be considered subsidiary to this Bid Item.

Grading the upstream and downstream channel of the box culverts within the temporary construction easement shall be considered subsidiary to this Bid Item.

Item 466
Use Class C concrete for headwalls or wingwalls.

Remove all loose formwork and other materials from the Floodplain or drainage areas, daily, which could float off in a stormwater event, as directed.

Item 496
If necessary, Contractor shall perform traffic control for any structure removal, as directed by the Engineer.

Item 502
Contractor shall provide all traffic control measures to prosecute the work and to ensure a minimum inconvenience to traffic around the construction area. Should the contractor’s traffic control measures be found unsatisfactory by the Engineer or Inspector, work will cease.

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Traffic control plans shown within these plans are a minimum requirement. The contractor shall be responsible for any additional signs, barricades, flagmen or other traffic control devices as necessary for the safety of the traveling public. All traffic control devices shall be compliant with the current Texas Manual of Uniform Traffic Control Devices.
Necessary barricades, sufficient lighting, signage and other traffic control methods as may be necessary for the protection and safety of the public shall be provided by the Contractor and maintained during the construction process. Any open trenches shall be covered and protected overnight as needed. The traffic control shall be adjusted in the morning prior to beginning any work.

The Contractor shall notify the County when any traffic control changes are to be made. The Contractor shall also notify all affected emergency service districts, school districts, and U.S. postal offices. The notifications must be made TWO DAYS prior to any change.

The Contractor shall provide all traffic control measures to prosecute the work in conformance with the Texas Manual on Uniform Traffic Control Devices, latest edition.

Access to all side streets and driveways shall be maintained at all times by the Contractor. The Contractor shall maintain 3:1 safety slopes on drop-offs greater than 2-inches that are adjacent to traffic.

The Contractor's crew leader shall be a competent person who will be responsible and available on the project site or in the immediate area to insure compliance with the TCP.

Item 644
All small signs not detailed in the plans shall be built in accordance with the latest edition of the Standard Highway Sign Designs for Texas. Where a sign size or particular legend is shown and such sign size or legend is not shown in the publication, the Contractor shall furnish the sign as detailed in the plans.

All existing regulatory signs must remain displayed at all times unless the roadway is closed to traffic.

The Contractor shall be responsible for removing and replacing any signs that are in the way of construction. Existing signs and sign posts that are in good condition can be replaced with a new triangular slipbase per TxDOT detail. A complete new sign assembly will be required if sign is damaged or at the direction of the Engineer. Sign mounting height shall comply with TxDOT standards.

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GOVERNING SPECIFICATIONS (STANDARD SPECIFICATIONS, SPECIAL PROVISIONS, AND SPECIAL SPECIFICATIONS)

WHERE DISCREPENCIES OCCUR BETWEEN THE VARIOUS GOVERNING SPECIFICATIONS, THE SPECIAL PROVISIONS SHALL GOVERN OVER BOTH STANDARD SPECIFICATIONS AND SPECIAL SPECIFICATIONS.

ALL SPECIFICATIONS AND SPECIAL PROVISIONS APPLICABLE TO THIS PROJECT ARE IDENTIFIED AS FOLLOWS:

STANDARD SPECIFICATIONS: ADOPTED BY THE TEXAS DEPARTMENT OF TRANSPORTATION NOVEMBER 1, 2014. STANDARD SPECIFICATIONS ARE INCORPORATED INTO THE CONTRACT BY REFERENCE.

ITEMS 1 – 9 ARE SUPERSEDED BY THE CONTRACT GENERAL AND SPECIAL CONDITIONS, WHERE APPLICABLE. WHEREVER, IN THE TXDOT STANDARD SPECIFICATIONS, REFERENCE IS MADE TO THE STATE OF TEXAS, THE DEPARTMENT AND ITS REPRESENTATIVES, SUCH REFERENCE SHALL BE TAKEN TO MEAN WILLIAMSON COUNTY AND ITS REPRESENTATIVES.

ITEM 100	PREPARING RIGHT OF WAY
ITEM 105	REMOVING STAB BASE AND ASPH PAV
ITEM 110	EXCAVATION
ITEM 132	EMBANKMENT
ITEM 247	FLEXIBLE BASE
ITEM 334	HOT-MIX COLD-LAID ASPHALT CONCRETE PAVEMENT
ITEM 340	DENSE-GRADED HOT-MIX ASPHALT (SMALL QUANTITY)
ITEM 400	EXCAVATION AND BACKFILL FOR STRUCTURES
ITEM 402	TRENCH EXCATION PROTECTION
ITEM 432	RIPRAP
ITEM 460	CORRUGATED METAL PIPE
ITEM 462	CONCRETE BOX CULVERTS AND DRAINS
ITEM 466	HEADWALLS AND WINGWALLS
ITEM 467	SAFETY END TREATMENT
ITEM 496	REMOVING STRUCTURES
ITEM 500	MOBILIZATION

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ITEM 502 BARRICADES, SIGNS AND TRAFFIC HANDLING

ITEM 506 TEMPORARY EROSION, SEDIMENTATION, AND ENVIRONMENTAL CONTROLS

ITEM 644 SMALL ROADSIDE SIGN SUPPORTS AND ASSEMBLIES

ITEM 658 DELINEATOR AND OBJECT MARKER ASSEMBLIES

ITEM 666 REFLECTORIZED PAVEMENT MARKINGS

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INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	PROJECT LOCATION MAP
3	SUMMARY OF QUANTITIES
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13	ROADWAY TAPER DETAILS
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23	CR461 PLAN & PROFILE
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37 - 41	EROSION CONTROL PLANS
	* **STANDARDS**
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WILLIAMSON COUNTY
PRECINCT 4

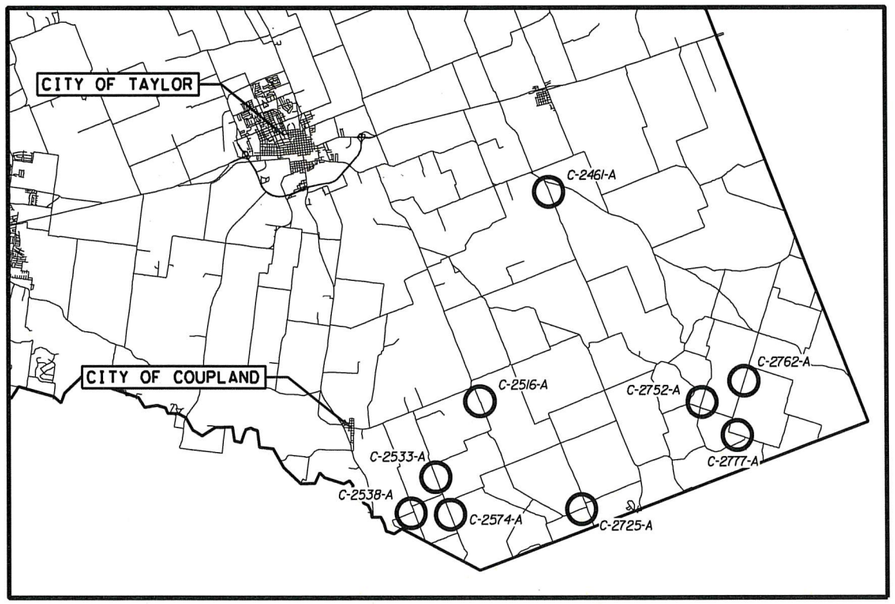
PLANS OF PROPOSED
FY19 CROSS CULVERT REPLACEMENTS

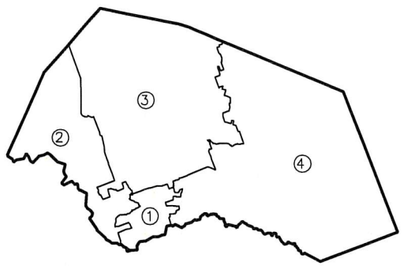
WILLIAMSON COUNTY PROJECT NO. IFB_____

NET LENGTH OF PROJECT = VARIES

PROJECT LIMITS: VARIES

FOR THE REPLACEMENT OF CROSS-DRAINAGE STRUCTURES CONSISTING OF CORRUGATED METAL PIPE, CONCRETE BOX CULVERTS, BASE, ASPHALT PAVEMENT, AND PAVEMENT MARKINGS.





WILLIAMSON COUNTY PRECINCTS

EXCEPTIONS: NONE
EQUATIONS: NONE
RAILROAD CROSSINGS: NONE

OCTOBER 2018

FUNCTIONAL CLASSIFICATION = RURAL LOCAL
DESIGN SPEED (CR 461) = 30 MPH
DESIGN SPEED (CR 463) = 60 MPH
2011 ADT = VARIES

WILLIAMSON COUNTY
1848

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STEGER BIZZELL
TBPE FIRM NO. "8"
Michael Baker INTERNATIONAL
TBPE FIRM NO. 2677

REQUIRED SIGNS SHALL BE PLACED IN ACCORDANCE WITH STANDARD SHEETS BC(1)-14 THRU BC(12)-14 AND THE "TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.:

TxDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION OF HIGHWAYS, STREETS AND BRIDGES ADOPTED ON NOVEMBER 1, 2014 AND ALL APPLICABLE SPECIAL PROVISIONS AND SPECIAL SPECIFICATIONS AS INDICATED IN THE BID DOCUMENTS SHALL GOVERN ON THIS PROJECT.

* THE STANDARDS AND SPECIFICATIONS IDENTIFIED HEREIN HAVE BEEN SELECTED BY ME OR UNDER MY SUPERVISION AND ARE APPLICABLE TO THIS PROJECT.

PREPARED BY:
STEGER BIZZELL

STATE OF TEXAS · CURTIS R. STEGER · 87905 · REGISTERED PROFESSIONAL ENGINEER

11/15/18

CURTIS R. STEGER, P.E. — DATE
PROJECT MANAGER

APPROVED AND RECOMMENDED FOR CONSTRUCTION:

11/26/18

J. TERRON EVERTSON, P.E. — DATE
COUNTY ENGINEER

KRK

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STATE OF TEXAS
CURTIS R. STEGER
87905
REGISTERED
PROFESSIONAL ENGINEER
11/15/18

WILLIAMSON COUNTY
1848

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STEGER BIZZELL
TBPE FIRM NO. 181

Michael Baker INTERNATIONAL
TBPE FIRM NO. 2677

WILLIAMSON COUNTY
FY19 CROSS CULVERT REPLACEMENTS

PROJECT LOCATION MAP

SCALE: 1"=1 MI

DATE: 11/16/2018 DSN: PH DW: PH CK: BRL AP: BRL

FED.RD. DIV.NO.	FEDERAL AID PROJECT NO.	SHEET NO.
6	----	2

STATE	DIST.	COUNTY
TEXAS	---	WILLIAMSON

CONT.	SECT.	JOB	HIGHWAY NO.
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Bid 1811-281

Williamson County, Texas

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SUMMARY OF QUANTITIES

CROSSING / STREET		100-6001 PREPARING ROW (AC)	105-6037 REMOVING STAB BASE AND ASPH PAV(0"-16") (SY)	110-6001 EXCAVATION (ROADWAY) (CY)	132-6001 EMBANKMENT (FINAL)(ORD COMP)(TY A) (CY)	247-6366 FL BS (CMP IN PLC)(TY A GR 5)(FNAL POS) (CY)	334-6088 HMCL ACP TY-D AES-300 (TON)	340-6004 D-GR HMA(SQ) TY-A PG64-22 (TON)	340-6106 D-GR HMA(SQ) TY-D PG64-22 (TON)	400-6001 STRUCT EXCAV (CY)	402-6001 TRENCH EXCAVATION PROTECTION (LF)	432-6002 RIPRAP (CONC)(5 IN) (CY)	432-6027 RIPRAP (STONE COMMON) (DRY)(24 IN) (CY)	460-6011 CMP AR (GAL STL DES 4) (LF)	460-6012 CMP AR (GAL STL DES 5) (LF)	460-6024 CMP AR (GAL STL DES 7) (LF)
C-2461	CR 450	0.24	14			5	2			53	15		13		40	
C-2516	CR 464	0.20	12			4	2			67	30		17		50	
C-2533	CR 463	0.92		297	356	638			201	136	31	29				70
C-2538	CR 461	0.23		84	28	123			39	65						56
C-2574	CR 463	0.08	22			8		85	55	38			24	60		
C-2725	CR 484	0.47	56			19	7			294	16		47			
C-2752	CR 480	0.14	14			5	2			69				56		
C-2762	CR 481	0.32	72			24	8			265	14	11	15			
C-2777	CR 481	0.14	12			4	2			40	10				32	
PROJECT-WIDE																
TOTAL		2.74	202	381	384	830	23	85	295	1027	116	40	116	116	122	126

CROSSING / STREET		462-6021 CONC BOX CULV (8 FT X 6 FT) (LF)	462-6032 CONC BOX CULV (10 FT X 8 FT) (LF)	466-6063 HEADWALL (CH - FW - A - 0) (DES= 4) (EA)	466-6064 HEADWALL (CH - FW - A - 0) (DES= 5) (EA)	466-6066 HEADWALL (CH - FW - A - 0) (DES= 6) (EA)	466-6111 HEADWALL (CH - PW - A - 0) (DES= 4) (EA)	466-6123 HEADWALL (CH - PW - A - S) (DES= 7) (EA)	466-6123A HEADWALL (CH - PW/FW - A - S) (DES= 7) (EA)	466-6169 WINGWALL (FW - S) (HW=8 FT) (EA)	466-6183 WINGWALL (PW - 1) (HW=8 FT) (EA)	466-6184 WINGWALL (PW - 1) (HW=9 FT) (EA)	467-6557 SET (TY II) (DES 5) (CMP) (4: 1) (C) (EA)
C-2461	CR 450												2
C-2516	CR 464				2								
C-2533	CR 463							1	1				
C-2538	CR 461					2							
C-2574	CR 463						2						
C-2725	CR 484		60									2	
C-2752	CR 480			2									
C-2762	CR 481	96								1	1		
C-2777	CR 481				2								
PROJECT-WIDE													
TOTAL		96	60	2	4	2	2	1	1	1	1	2	2

CROSSING / STREET		496-6006 REMOV STR (HEADWALL) (EA)	496-6007 REMOV STR (PIPE) (LF)	500-6001 MOBILIZATION (LS)	502-6001 BARRICADES, SIGNS AND TRAFFIC HANDLING (MO)	506-6002 ROCK FILTER DAMS (INSTALL) (TY 2) (LF)	506-6011 ROCK FILTER DAMS (REMOVE) (LF)	506-6038 TEMP SEDMT CONT FENCE (INSTALL) (LF)	506-6039 TEMP SEDMT CONT FENCE (REMOVE) (LF)	644-6068 RELOCATE SM RD SN SUP&AM TY 10BWG (EA)	658-6047 INSTL OM ASSM (OM-2Y)(WC)GND (EA)	666-6047 REFL PAV MRK TY I (W)24"(SLD)(090MIL) (LF)	666-6314 RE PM W/RET REQ TY I (Y)4"(SLD)(090 MIL (LF)
C-2461	CR 450	2	50			15	15	60	60		2		
C-2516	CR 464	1	64			40	40	60	60		2		
C-2533	CR 463	1	118			40	40	56	25		2		
C-2538	CR 461	1	60			20	20	65	65	2	2	11	290
C-2574	CR 463		52			20	20	50	50		2		
C-2725	CR 484	2	66			71	71	93	93		2		
C-2752	CR 480		35			20	20	49	49		2		
C-2762	CR 481	2	101			55	55	75	75		2		
C-2777	CR 481	1	28			15	15	38	38		2		
PROJECT-WIDE				1	3								
TOTAL		10	574	1	3	296	296	546	515	2	18	11	290

Williamson County, Texas

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WILLIAMSON COUNTY
FY19 CROSS CULVERT REPLACEMENTS

SUMMARY OF QUANTITIES

DATE: 11/16/2018	DN: PH	DW: PH	CK: BRL	AP: BRL	
FED.RD. DIV.NO.	FEDERAL AID PROJECT NO.				SHEET NO.
6	----				3
STATE	DIST.	COUNTY			
TEXAS	---	WILLIAMSON			
CONT.	SECT.	JOB	HIGHWAY NO.		
----	--	---			

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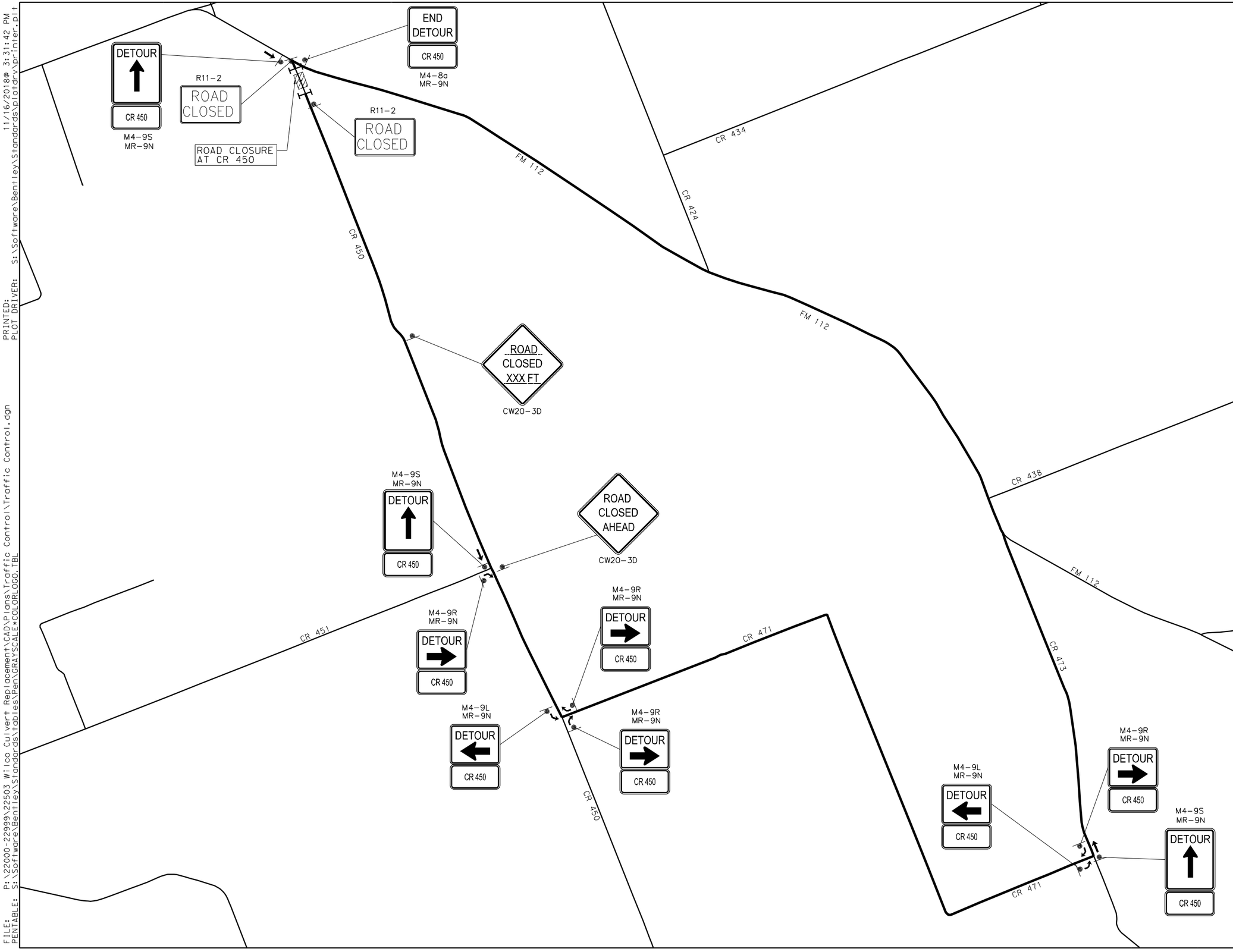

LEGEND:

- TYPE III BARRICADE
- SIGN POST
- DETOUR TRAFFIC FLOW

TRAFFIC CONTROL PHASING:

1. INSTALL TRAFFIC CONTROL MEASURES AND DETOUR SIGNING
2. CLOSE CR 450
3. DEMOLISH EXISTING PAVEMENT AND EXISTING CULVERTS
4. CONSTRUCT CULVERTS AND PAVE STREET
5. REMOVE TRAFFIC CONTROL MEASURES AND DETOUR SIGNING
6. OPEN CR 450 FOR TRAFFIC

NOTES:

1. THE CONTRACTOR SHALL PROVIDE ACCESS TO ALL ADJACENT PROPERTY ALONG CR 450 AT ALL TIMES.

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FY19 CROSS CULVERT REPLACEMENTS

TRAFFIC CONTROL PLAN (C-2461-A AT CR 450)

SHEET 1 OF 9 SCALE: 1"=2000'

DATE: 11/16/2018 DN: PH DW: PH CK: BRL AP: BRL

FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		SHEET NO.
6	----		4
STATE	DIST.	COUNTY	
TEXAS	---	WILLIAMSON	
CONT.	SECT.	JOB	HIGHWAY NO.
----	--	---	CR 450

Williamson County, Texas

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CR 456

FM 1466

CR 460

CR 463

CR 464

CR 465

M4-9S
MR-9N
DETOUR
CR 464

DETOUR
CR 464
M4-9L
MR-9N

ROAD
CLOSED
XXX FT
CW20-3D

END
DETOUR
CR 464
M4-8a
MR-9N

R11-2
ROAD
CLOSED

ROAD CLOSURE
AT CR 464

M4-9R
MR-9N
DETOUR
CR 464

M4-9S
MR-9N
DETOUR
CR 464

M4-9R
MR-9N
DETOUR
CR 464

M4-9S
MR-9N
DETOUR
CR 464

N

0 1000 2000
SCALE IN FEET

LEGEND:

- TYPE III BARRICADE
- SIGN POST
- DETOUR TRAFFIC FLOW

TRAFFIC CONTROL PHASING:

1. INSTALL TRAFFIC CONTROL MEASURES AND DETOUR SIGNING
2. CLOSE CR 464
3. DEMOLISH EXISTING PAVEMENT AND EXISTING CULVERTS
4. CONSTRUCT CULVERTS AND PAVE STREET
5. REMOVE TRAFFIC CONTROL MEASURES AND DETOUR SIGNING
6. OPEN CR 464 FOR TRAFFIC

NOTES:

1. THE CONTRACTOR SHALL PROVIDE ACCESS TO ALL ADJACENT PROPERTY ALONG CR 464 AT ALL TIMES.

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FY19 CROSS CULVERT REPLACEMENTS

TRAFFIC CONTROL PLAN (C-2516-A AT CR 464)

SHEET 2 OF 9 SCALE: 1"=2000'

DATE: 11/16/2018 DN: PH DW: PH CK: BRL AP: BRL

FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.	SHEET NO.
6	----	5

STATE	DIST.	COUNTY
TEXAS	---	WILLIAMSON

CONT.	SECT.	JOB	HIGHWAY NO.
----	--	---	CR 464

Williamson County, Texas

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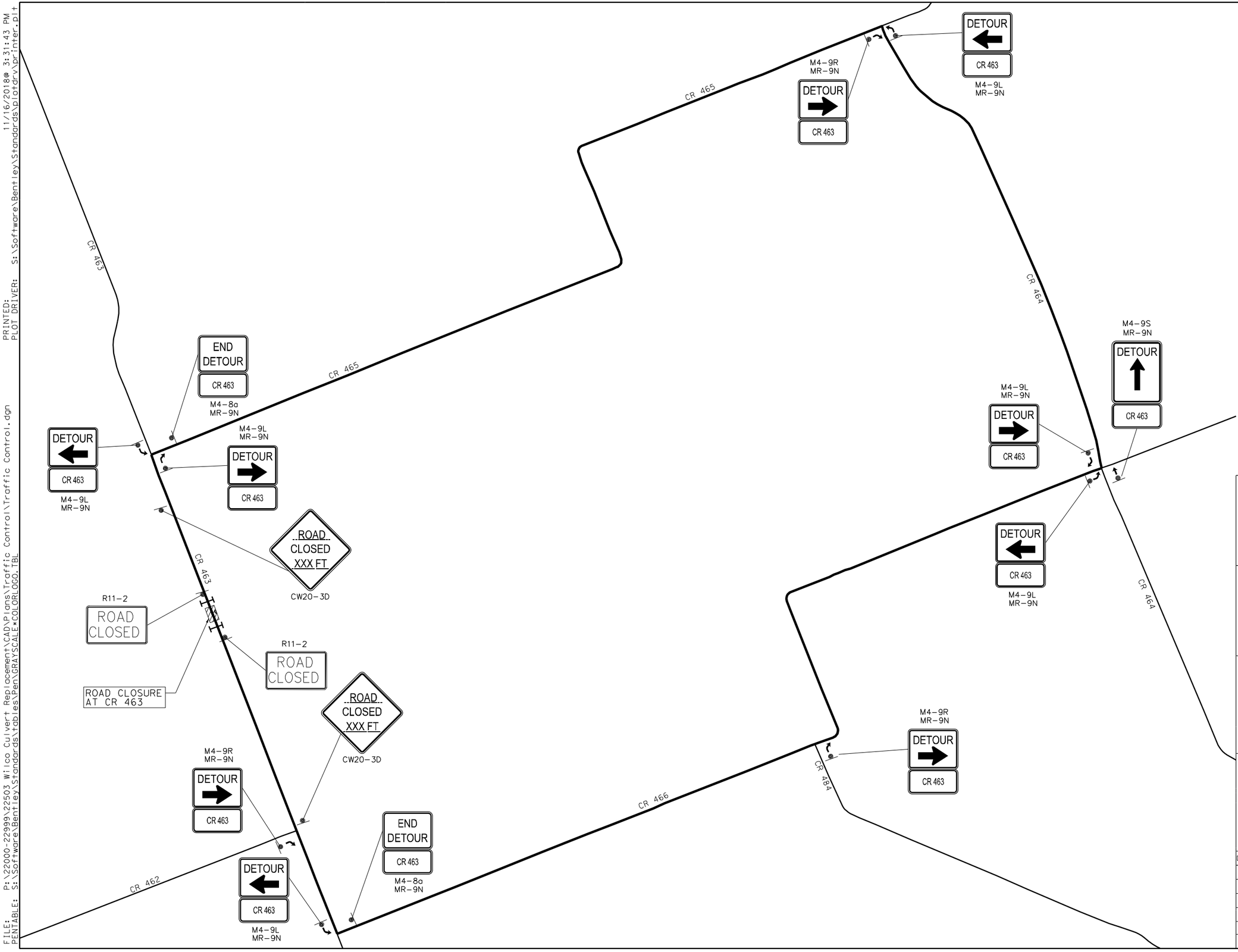

LEGEND:

- TYPE III BARRICADE
- SIGN POST
- DETOUR TRAFFIC FLOW

TRAFFIC CONTROL PHASING:

1. INSTALL TRAFFIC CONTROL MEASURES AND DETOUR SIGNING
2. CLOSE CR 463
3. DEMOLISH EXISTING PAVEMENT AND EXISTING CULVERTS
4. CONSTRUCT CULVERTS AND PAVE STREET
5. REMOVE TRAFFIC CONTROL MEASURES AND DETOUR SIGNING
6. OPEN CR 463 FOR TRAFFIC

NOTES:

1. THE CONTRACTOR SHALL PROVIDE ACCESS TO ALL ADJACENT PROPERTY ALONG CR 463 AT ALL TIMES.

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FY19 CROSS CULVERT REPLACEMENTS

TRAFFIC CONTROL PLAN (C-2533-A AT CR 463)

SHEET 3 OF 9 SCALE: 1"=1000'

DATE: 11/16/2018 DN: PH DW: PH CK: BRL AP: BRL

FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		SHEET NO.
6	----		6
STATE	DIST.	COUNTY	
TEXAS	---	WILLIAMSON	
CONT.	SECT.	JOB	HIGHWAY NO.
----	--	---	CR 463

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Williamson County, Texas

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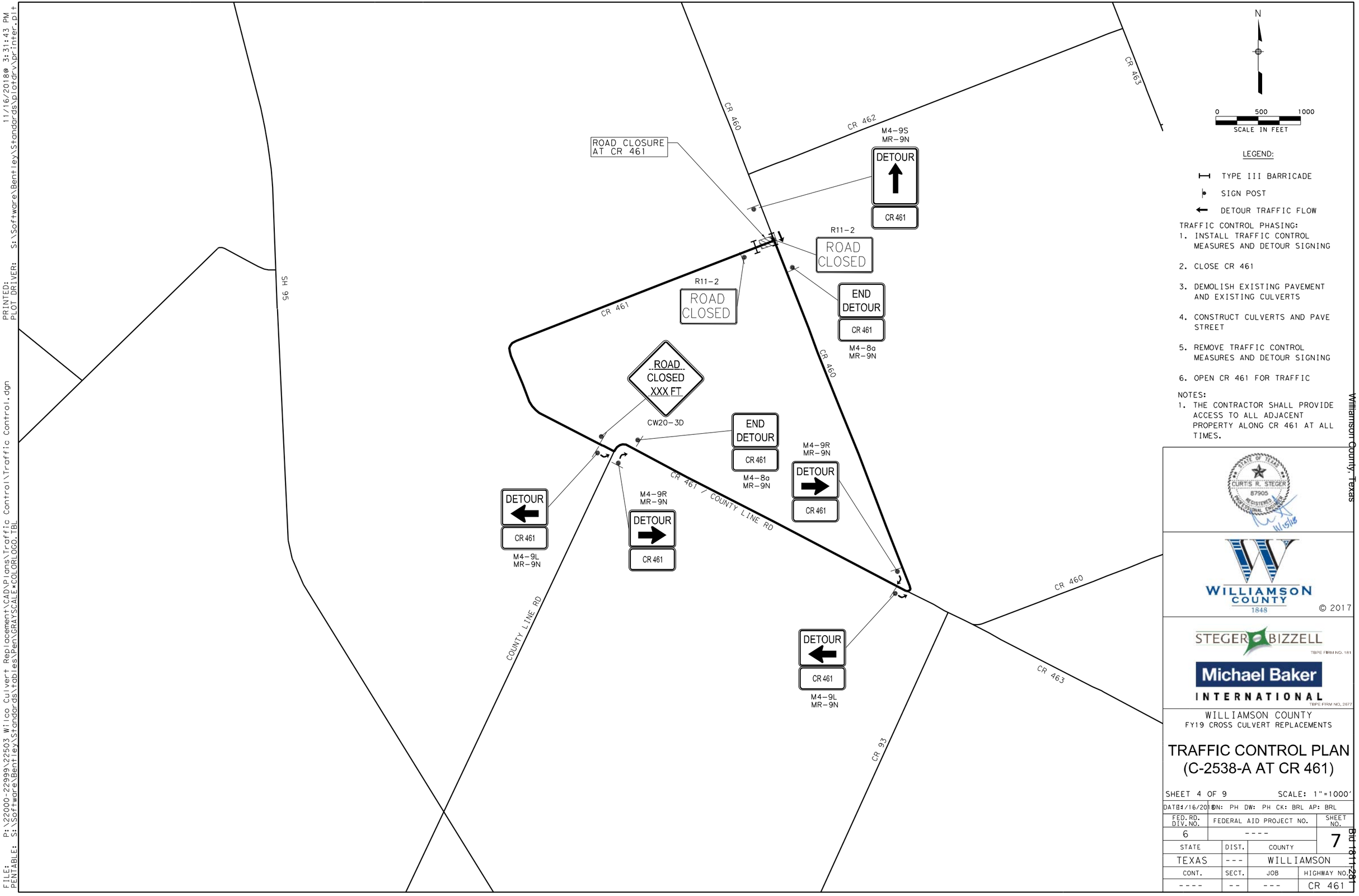

N

0 500 1000
SCALE IN FEET

LEGEND:

- TYPE III BARRICADE
- SIGN POST
- DETOUR TRAFFIC FLOW

TRAFFIC CONTROL PHASING:

1. INSTALL TRAFFIC CONTROL MEASURES AND DETOUR SIGNING
2. CLOSE CR 461
3. DEMOLISH EXISTING PAVEMENT AND EXISTING CULVERTS
4. CONSTRUCT CULVERTS AND PAVE STREET
5. REMOVE TRAFFIC CONTROL MEASURES AND DETOUR SIGNING
6. OPEN CR 461 FOR TRAFFIC

NOTES:

1. THE CONTRACTOR SHALL PROVIDE ACCESS TO ALL ADJACENT PROPERTY ALONG CR 461 AT ALL TIMES.

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FY19 CROSS CULVERT REPLACEMENTS

TRAFFIC CONTROL PLAN (C-2538-A AT CR 461)

SHEET 4 OF 9 SCALE: 1"=1000'

DATE: 11/16/2018 DN: PH DW: PH CK: BRL AP: BRL

FED.RD. DIV.NO.	FEDERAL AID PROJECT NO.	SHEET NO.
6	----	7

STATE	DIST.	COUNTY
TEXAS	---	WILLIAMSON

CONT.	SECT.	JOB	HIGHWAY NO.
-----	--	---	CR 461

Williamson County, Texas

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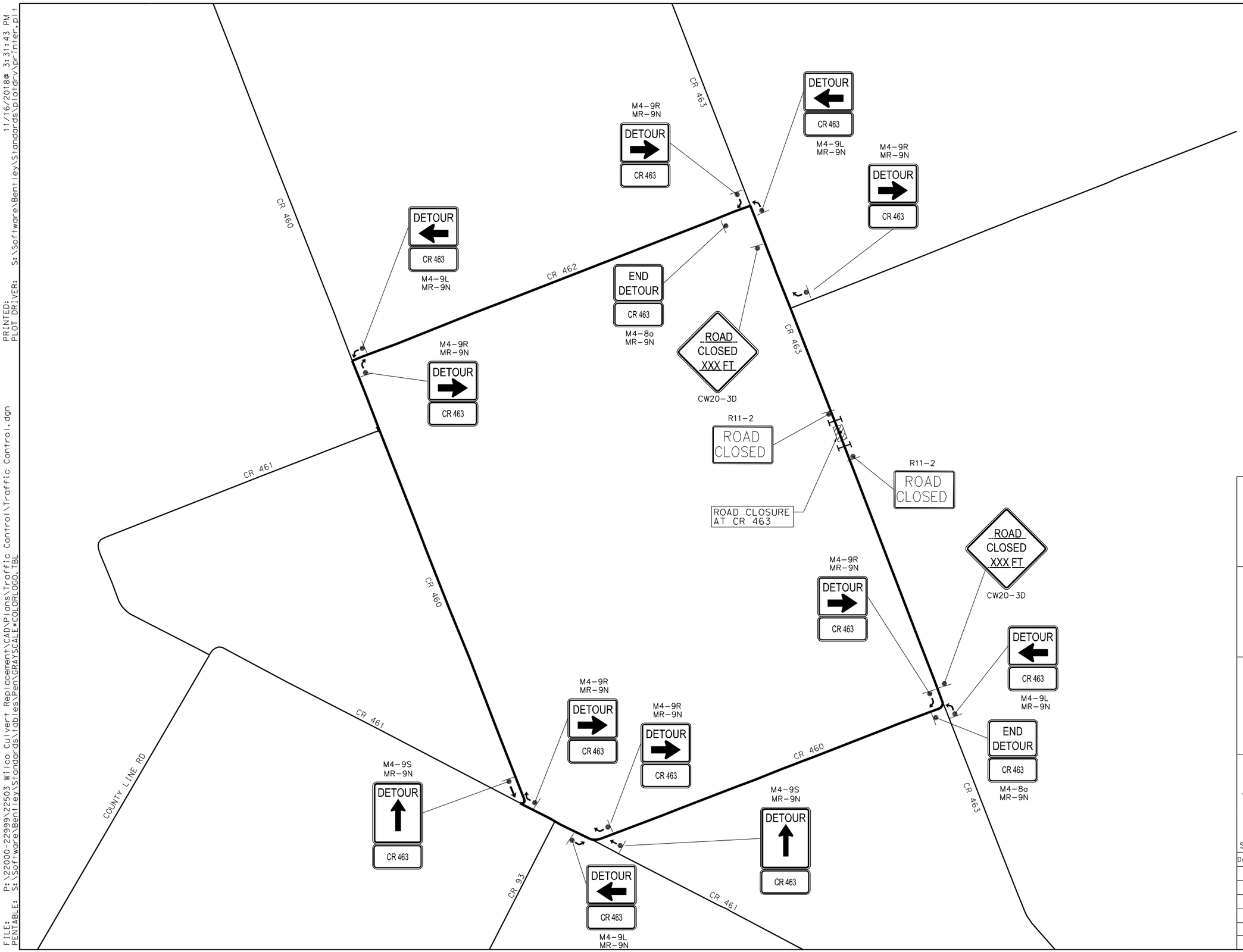

N

0 500 1000
SCALE IN FEET

LEGEND:

- TYPE III BARRICADE
- SIGN POST
- DETOUR TRAFFIC FLOW

TRAFFIC CONTROL PHASING:

1. INSTALL TRAFFIC CONTROL MEASURES AND DETOUR SIGNING
2. CLOSE CR 463
3. DEMOLISH EXISTING PAVEMENT AND EXISTING CULVERTS
4. CONSTRUCT CULVERTS AND PAVE STREET
5. REMOVE TRAFFIC CONTROL MEASURES AND DETOUR SIGNING
6. OPEN CR 463 FOR TRAFFIC

NOTES:

1. THE CONTRACTOR SHALL PROVIDE ACCESS TO ALL ADJACENT PROPERTY ALONG CR 463 AT ALL TIMES.

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FY19 CROSS CULVERT REPLACEMENTS

TRAFFIC CONTROL PLAN (C-2574-A AT CR 463)

SHEET 5 OF 9 SCALE: 1"=1000'

DATE: 11/16/2018 DN: PH DW: PH CK: BRL AP: BRL

FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.	SHEET NO.
6	----	8

STATE	DIST.	COUNTY	
TEXAS	---	WILLIAMSON	
CONT.	SECT.	JOB	HIGHWAY NO.
----	--	---	CR 463

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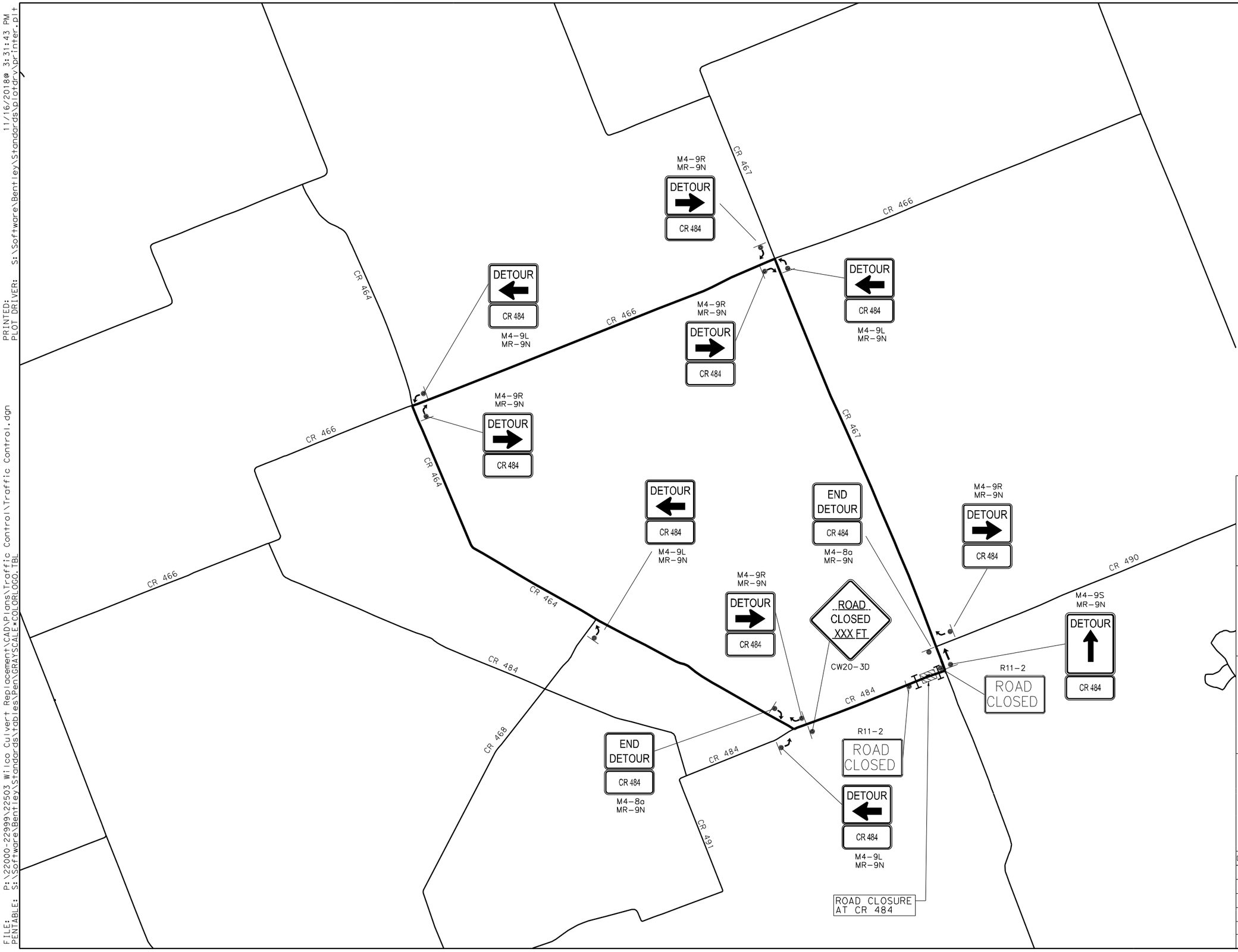

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0 1000 2000
SCALE IN FEET

LEGEND:

- TYPE III BARRICADE
- SIGN POST
- DETOUR TRAFFIC FLOW

TRAFFIC CONTROL PHASING:

1. INSTALL TRAFFIC CONTROL MEASURES AND DETOUR SIGNING
2. CLOSE CR 484
3. DEMOLISH EXISTING PAVEMENT AND EXISTING CULVERTS
4. CONSTRUCT CULVERTS AND PAVE STREET
5. REMOVE TRAFFIC CONTROL MEASURES AND DETOUR SIGNING
6. OPEN CR 484 FOR TRAFFIC

NOTES:

1. THE CONTRACTOR SHALL PROVIDE ACCESS TO ALL ADJACENT PROPERTY ALONG CR 484 AT ALL TIMES.

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FY19 CROSS CULVERT REPLACEMENTS

TRAFFIC CONTROL PLAN (C-2725-A AT CR 484)

SHEET 6 OF 9 SCALE: 1"=2000'

DATE: 11/16/2018 DN: PH DW: PH CK: BRL AP: BRL

FED.RD. DIV.NO.	FEDERAL AID PROJECT NO.	SHEET NO.
6	----	9

STATE	DIST.	COUNTY
TEXAS	---	WILLIAMSON

CONT.	SECT.	JOB	HIGHWAY NO.
----	--	---	CR 484

Williamson County, Texas

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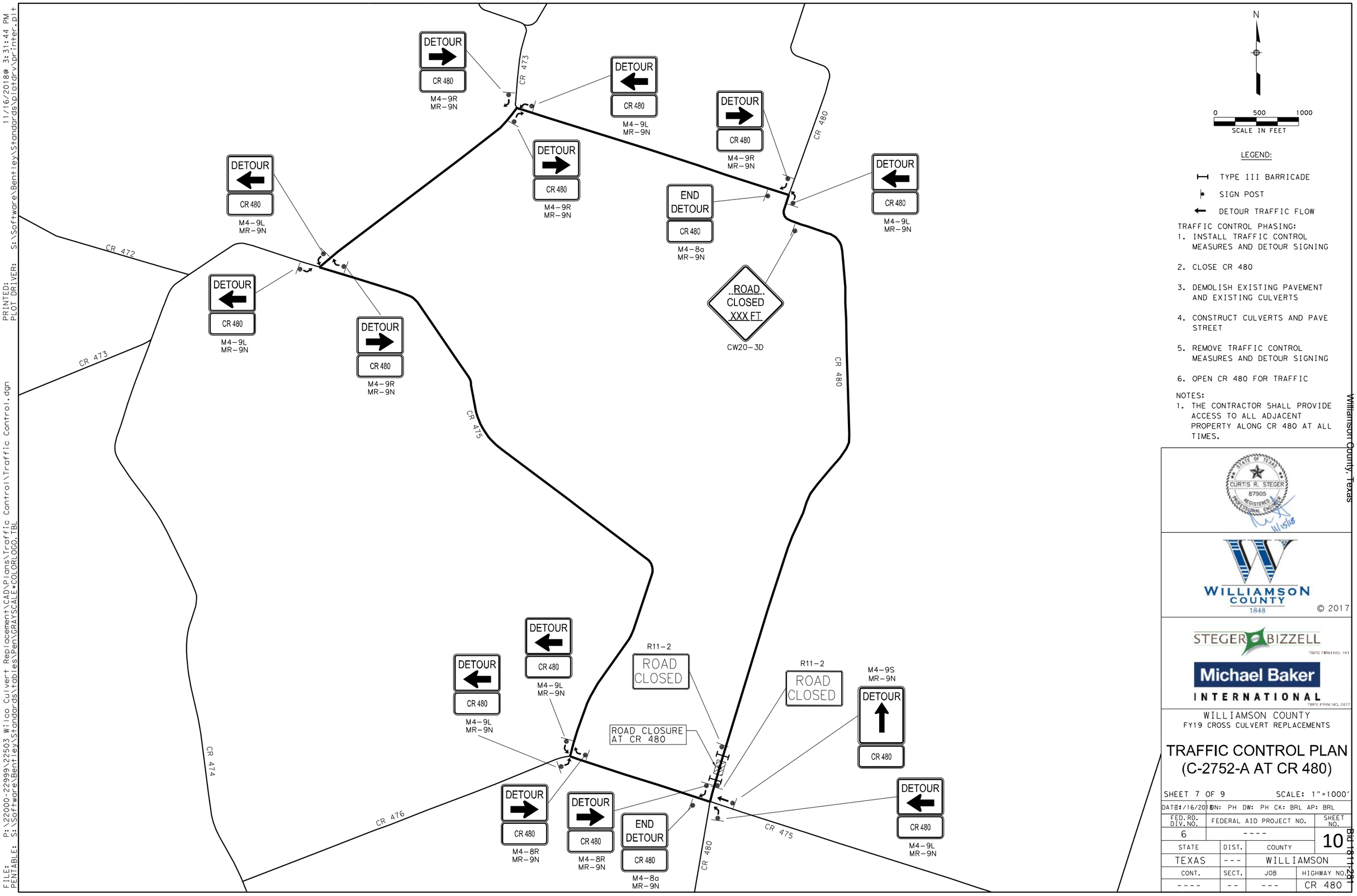

LEGEND:

- TYPE III BARRICADE
- SIGN POST
- DETOUR TRAFFIC FLOW

TRAFFIC CONTROL PHASING:

1. INSTALL TRAFFIC CONTROL MEASURES AND DETOUR SIGNING
2. CLOSE CR 480
3. DEMOLISH EXISTING PAVEMENT AND EXISTING CULVERTS
4. CONSTRUCT CULVERTS AND PAVE STREET
5. REMOVE TRAFFIC CONTROL MEASURES AND DETOUR SIGNING
6. OPEN CR 480 FOR TRAFFIC

NOTES:

1. THE CONTRACTOR SHALL PROVIDE ACCESS TO ALL ADJACENT PROPERTY ALONG CR 480 AT ALL TIMES.

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FY19 CROSS CULVERT REPLACEMENTS

TRAFFIC CONTROL PLAN (C-2752-A AT CR 480)

SHEET 7 OF 9	SCALE: 1"=1000'
DATE: 11/16/2018	DN: PH DW: PH CK: BRL AP: BRL

FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.	SHEET NO.
6	----	10

STATE	DIST.	COUNTY
TEXAS	---	WILLIAMSON

CONT.	SECT.	JOB	HIGHWAY NO.
----	--	---	CR 480

Bid 1811281

Williamson County, Texas

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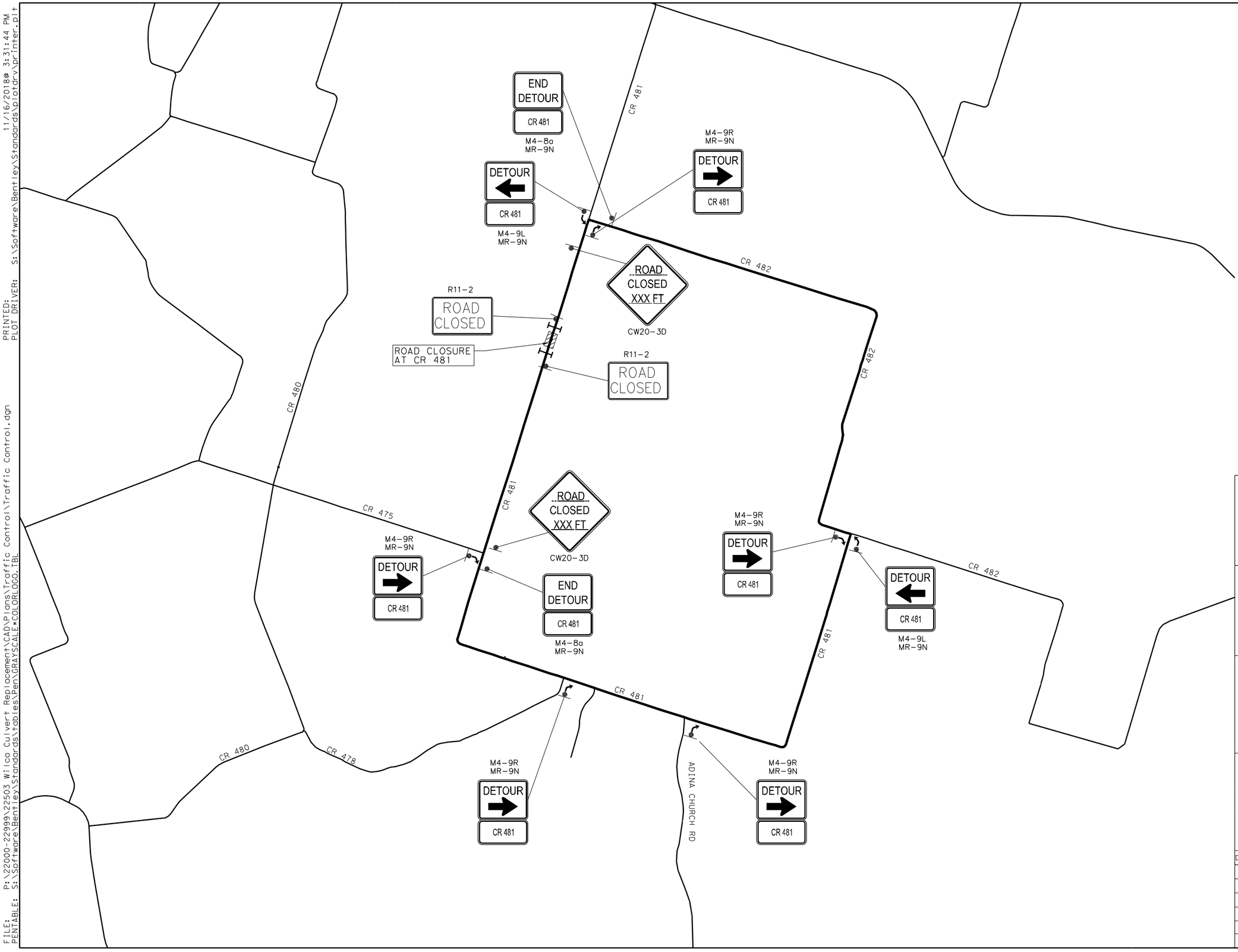

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SCALE IN FEET

LEGEND:

- TYPE III BARRICADE
- SIGN POST
- DETOUR TRAFFIC FLOW

TRAFFIC CONTROL PHASING:

1. INSTALL TRAFFIC CONTROL MEASURES AND DETOUR SIGNING
2. CLOSE CR 481
3. DEMOLISH EXISTING PAVEMENT AND EXISTING CULVERTS
4. CONSTRUCT CULVERTS AND PAVE STREET
5. REMOVE TRAFFIC CONTROL MEASURES AND DETOUR SIGNING
6. OPEN CR 481 FOR TRAFFIC

NOTES:

1. THE CONTRACTOR SHALL PROVIDE ACCESS TO ALL ADJACENT PROPERTY ALONG CR 481 AT ALL TIMES.

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FY19 CROSS CULVERT REPLACEMENTS

TRAFFIC CONTROL PLAN (C-2762-A AT CR 481)

SHEET 8 OF 9 SCALE: 1"=2000'

DATE: 11/16/2018 DN: PH DW: PH CK: BRL AP: BRL

FED.RD. DIV.NO.	FEDERAL AID PROJECT NO.		SHEET NO.
6	----		11
STATE	DIST.	COUNTY	
TEXAS	---	WILLIAMSON	
CONT.	SECT.	JOB	HIGHWAY NO.
-----	--	---	CR 481

Williamson County, Texas

Bid 18111-281

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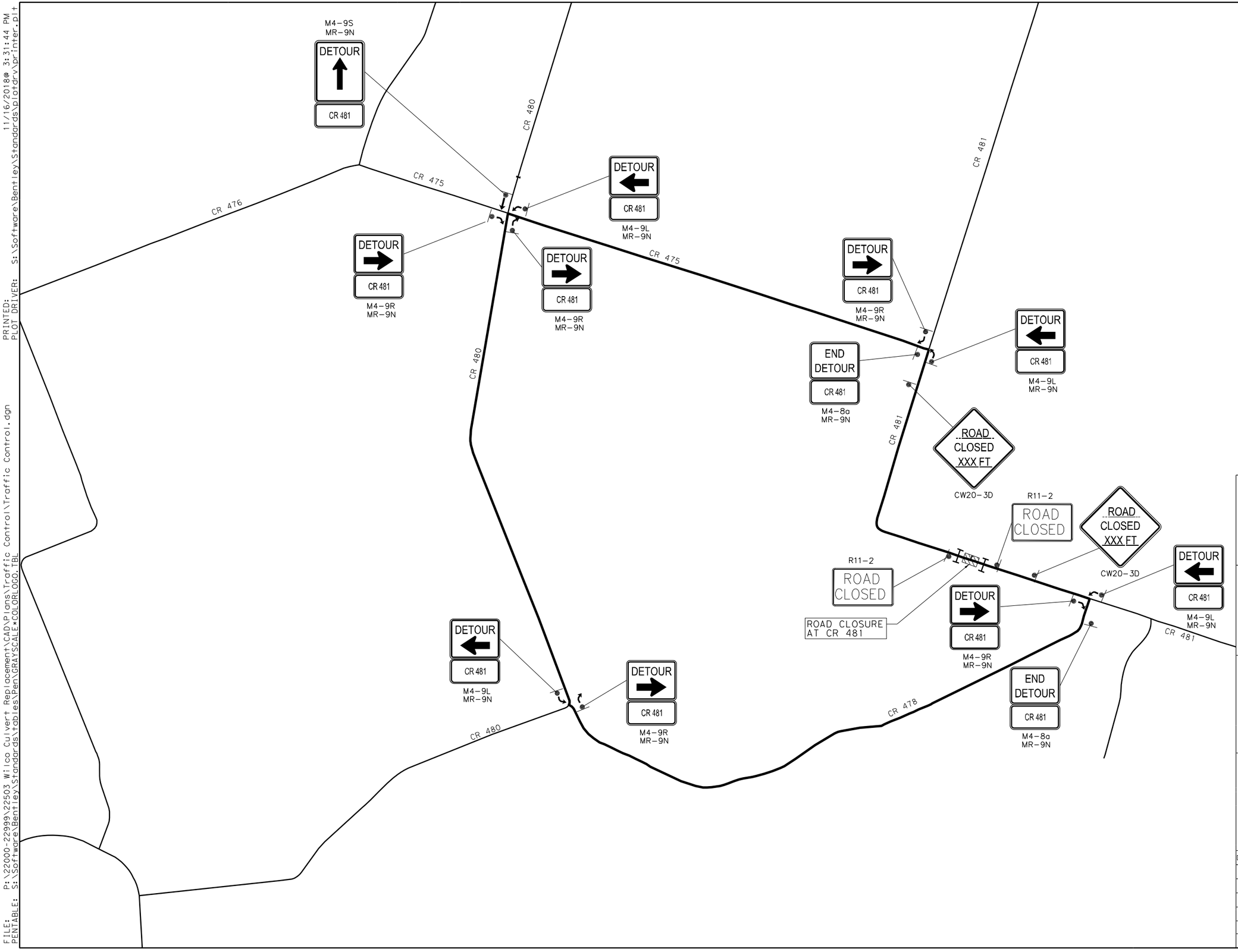

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0 500 1000
SCALE IN FEET

LEGEND:

- TYPE III BARRICADE
- SIGN POST
- DETOUR TRAFFIC FLOW

TRAFFIC CONTROL PHASING:

1. INSTALL TRAFFIC CONTROL MEASURES AND DETOUR SIGNING
2. CLOSE CR 481
3. DEMOLISH EXISTING PAVEMENT AND EXISTING CULVERTS
4. CONSTRUCT CULVERTS AND PAVE STREET
5. REMOVE TRAFFIC CONTROL MEASURES AND DETOUR SIGNING
6. OPEN CR 481 FOR TRAFFIC

NOTES:

1. THE CONTRACTOR SHALL PROVIDE ACCESS TO ALL ADJACENT PROPERTY ALONG CR 481 AT ALL TIMES.

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FY19 CROSS CULVERT REPLACEMENTS

TRAFFIC CONTROL PLAN
(C-2777-A AT CR 481)

SHEET 9 OF 9 SCALE: 1"=1000'

DATE: 11/16/2018 DN: PH DW: PH CK: BRL AP: BRL

FED.RD. DIV.NO.	FEDERAL AID PROJECT NO.		SHEET NO.
6	----		12
STATE	DIST.	COUNTY	
TEXAS	---	WILLIAMSON	
CONT.	SECT.	JOB	HIGHWAY NO.
----	--	---	CR 481

Bid 1811-281

Williamson County, Texas

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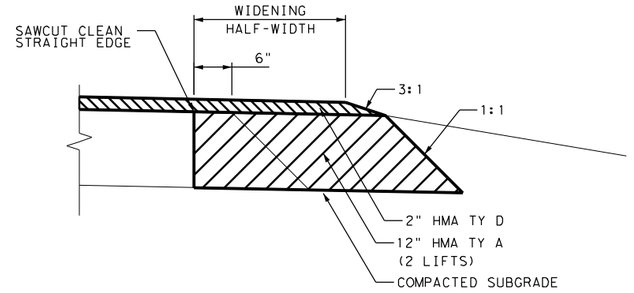
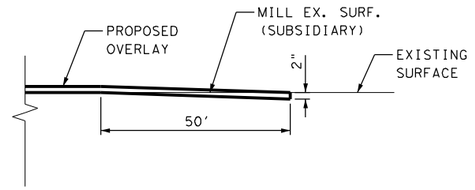
CULVERT	ROADWAY	EXISTING ROADWAY WIDTH	PROPOSED ROADWAY WIDTH	WIDENING HALF-WIDTH	EST. TOTAL NEW PAVEMENT	EST. TY D	EST. TY A	COMMENT
		FT	FT	FT	SY	TON	TON	
C-2461	CR 450	19	N/C	--	--	--	--	
C-2516	CR 464	18	N/C	--	--	--	--	
C-2533	CR 463	20	20	6 (ONE SIDE)	1822	201	0	REFER TO ROADWAY P&P SHEET FOR LIMITS
C-2538	CR 461	18	20	10 (ONE SIDE)	351	39	0	REFER TO ROADWAY P&P SHEET FOR LIMITS
C-2574	CR 463	15	20	2.5	72	55	85	
C-2725	CR 484	19	N/C	--	--	--	--	
C-2752	CR 480	20	N/C	--	--	--	--	
C-2762	CR 481	19	N/C	--	--	--	--	
C-2777	CR 481	18	N/C	--	--	--	--	
				SUM =	2245	295	85	

N/C = NO CHANGE



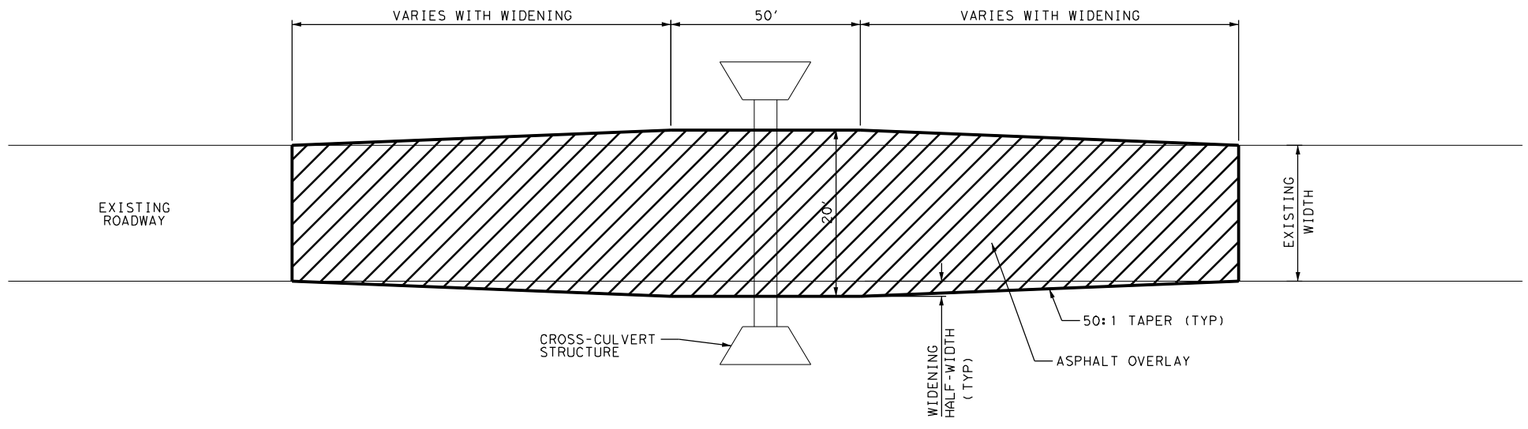
TYPICAL PAVEMENT SECTION
N.T.S.



MILLING BUTT JOINT
N.T.S.

NOTES:

1. THE TAPERED HMA EDGE SHALL BE PRODUCED BY USE OF A SCREED ATTACHMENT CAPABLE OF PRODUCING A SMOOTH COMPACTED SURFACE. ADDITIONAL COMPACTING EFFORT BEHIND THE SCREED IS NOT REQUIRED.
2. THE SLOPE OF NEW PAVEMENT SHALL MATCH EXISTING PAVEMENT, BUT IN NO CASE BE FLATTER THAN 2.0%.



TYPICAL ROADWAY WIDENING
N.T.S.

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ROADWAY TAPER DETAILS

DATE: 11/16/2018	DN: PH	DW: PH	CK: BRL	AP: BRL	
FED.RD. DIV.NO.	FEDERAL AID PROJECT NO.				SHEET NO.
6	----				13
STATE	DIST.	COUNTY			
TEXAS	---	WILLIAMSON			
CONT.	SECT.	JOB		HIGHWAY NO.	
----	--	---			

Williamson County, Texas
Bid 18112B1

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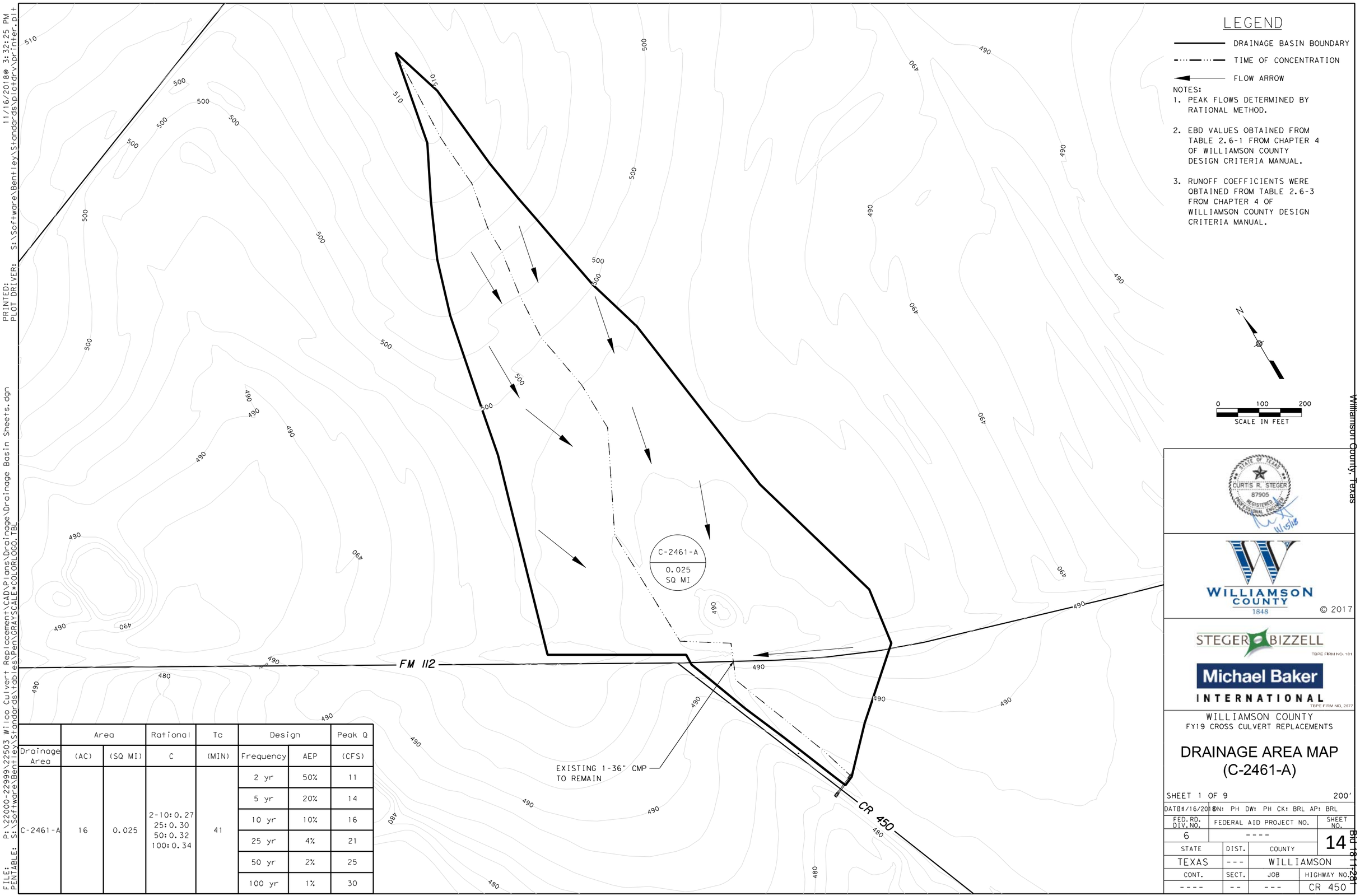

LEGEND

- DRAINAGE BASIN BOUNDARY
- TIME OF CONCENTRATION
- FLOW ARROW

NOTES:

1. PEAK FLOWS DETERMINED BY RATIONAL METHOD.
2. EBD VALUES OBTAINED FROM TABLE 2.6-1 FROM CHAPTER 4 OF WILLIAMSON COUNTY DESIGN CRITERIA MANUAL.
3. RUNOFF COEFFICIENTS WERE OBTAINED FROM TABLE 2.6-3 FROM CHAPTER 4 OF WILLIAMSON COUNTY DESIGN CRITERIA MANUAL.

N

0 100 200
SCALE IN FEET

	Area		Rational	Tc	Design		Peak Q
Drainage Area	(AC)	(SQ MI)	C	(MIN)	Frequency	AEP	(CFS)
C-2461-A	16	0.025	2-10:0.27 25:0.30 50:0.32 100:0.34	41	2 yr	50%	11
					5 yr	20%	14
					10 yr	10%	16
					25 yr	4%	21
					50 yr	2%	25
					100 yr	1%	30

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FY19 CROSS CULVERT REPLACEMENTS

DRAINAGE AREA MAP (C-2461-A)

SHEET 1 OF 9 200'

DATE: 11/16/2018 DN: PH DW: PH CK: BRL AP: BRL

FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.	SHEET NO.
6	----	14

STATE	DIST.	COUNTY
TEXAS	---	WILLIAMSON

CONT.	SECT.	JOB	HIGHWAY NO.
----	--	---	CR 450

Williamson County, Texas

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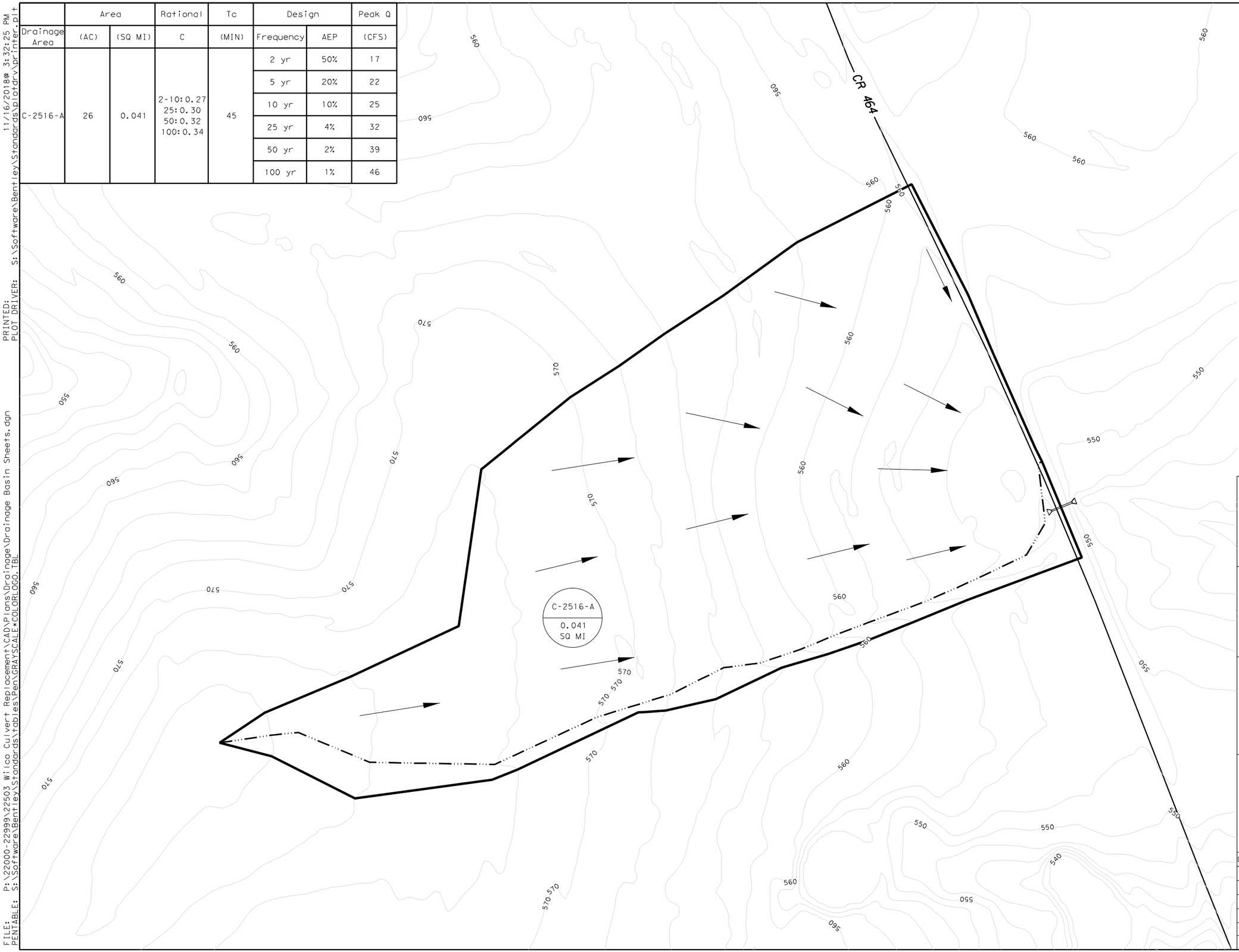
	Area		Rational	Tc	Design		Peak Q
Drainage Area	(AC)	(SQ MI)	C	(MIN)	Frequency	AEP	(CFS)
C-2516-A	26	0.041	2-10: 0.27 25: 0.30 50: 0.32 100: 0.34	45	2 yr	50%	17
					5 yr	20%	22
					10 yr	10%	25
					25 yr	4%	32
					50 yr	2%	39
					100 yr	1%	46



LEGEND

- DRAINAGE BASIN BOUNDARY
- TIME OF CONCENTRATION
- FLOW ARROW

NOTES:
1. PEAK FLOWS DETERMINED BY RATIONAL METHOD.
2. EBD VALUES OBTAINED FROM TABLE 2.6-1 FROM CHAPTER 4 OF WILLIAMSON COUNTY DESIGN CRITERIA MANUAL.
3. RUNOFF COEFFICIENTS WERE OBTAINED FROM TABLE 2.6-3 FROM CHAPTER 4 OF WILLIAMSON COUNTY DESIGN CRITERIA MANUAL.

N

0 100 200
SCALE IN FEET

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DRAINAGE AREA MAP (C-2516-A)

SHEET 2 OF 9 200'

DATE: 11/16/2018 DN: PH DW: PH CK: BRL AP: BRL

FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.	SHEET NO.
6	----	15

STATE	DIST.	COUNTY
TEXAS	---	WILLIAMSON

CONT.	SECT.	JOB	HIGHWAY NO.
----	--	---	CR 464

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LEGEND

- DRAINAGE BASIN BOUNDARY
- TIME OF CONCENTRATION
- FLOW ARROW

NOTES:

1. PEAK FLOWS DETERMINED BY RATIONAL METHOD.
2. EBD VALUES OBTAINED FROM TABLE 2.6-1 FROM CHAPTER 4 OF WILLIAMSON COUNTY DESIGN CRITERIA MANUAL.
3. RUNOFF COEFFICIENTS WERE OBTAINED FROM TABLE 2.6-3 FROM CHAPTER 4 OF WILLIAMSON COUNTY DESIGN CRITERIA MANUAL.

N

0 200 400
SCALE IN FEET

	Area		Rational	Tc	Design		Peak Q
Drainage Area	(AC)	(SQ MI)	C	(MIN)	Frequency	AEP	(CFS)
C-2533-A	140	0.219	2-10:0.27 25:0.30 50:0.32 100:0.34	34	2 yr	50%	108
					5 yr	20%	139
					10 yr	10%	159
					25 yr	4%	206
					50 yr	2%	251
					100 yr	1%	295

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DRAINAGE AREA MAP (C-2533-A)

SHEET 3 OF 9 400'

DATE: 11/16/2018 DN: PH DW: PH CK: BRL AP: BRL

FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.	SHEET NO.
6	----	16

STATE	DIST.	COUNTY	
TEXAS	---	WILLIAMSON	
CONT.	SECT.	JOB	HIGHWAY NO.
----	--	---	CR 463

Bid 18112841

Williamson County, Texas

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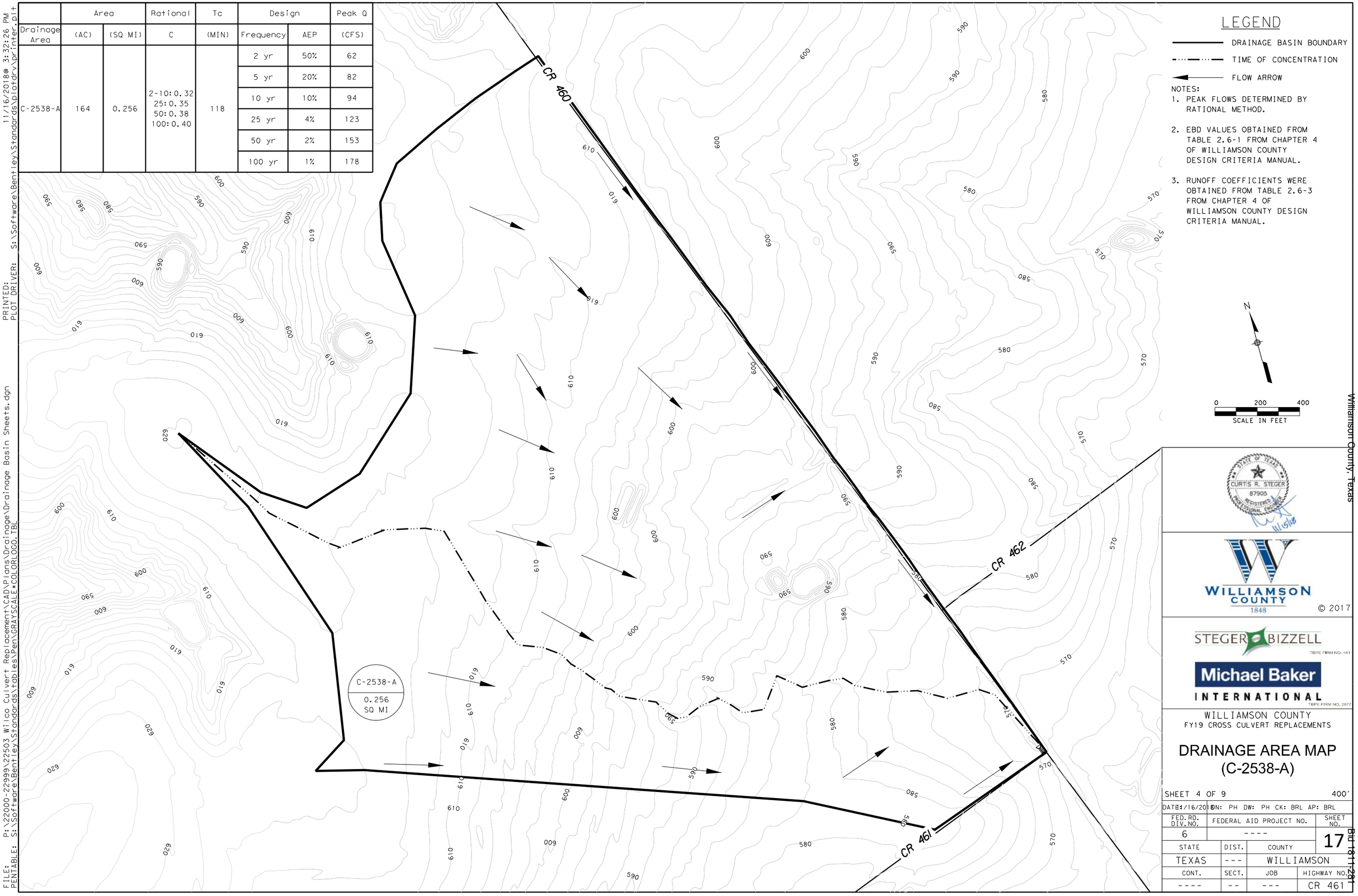
Drainage Area	Area (AC)	Area (SQ MI)	Rational C	Tc (MIN)	Design Frequency	Design AEP	Peak Q (CFS)
C-2538-A	164	0.256	2-10:0.32 25:0.35 50:0.38 100:0.40	118	2 yr	50%	62
					5 yr	20%	82
					10 yr	10%	94
					25 yr	4%	123
					50 yr	2%	153
					100 yr	1%	178



LEGEND

- DRAINAGE BASIN BOUNDARY
- TIME OF CONCENTRATION
- FLOW ARROW

NOTES:
1. PEAK FLOWS DETERMINED BY RATIONAL METHOD.
2. EBD VALUES OBTAINED FROM TABLE 2.6-1 FROM CHAPTER 4 OF WILLIAMSON COUNTY DESIGN CRITERIA MANUAL.
3. RUNOFF COEFFICIENTS WERE OBTAINED FROM TABLE 2.6-3 FROM CHAPTER 4 OF WILLIAMSON COUNTY DESIGN CRITERIA MANUAL.

N

0 200 400
SCALE IN FEET

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FY19 CROSS CULVERT REPLACEMENTS

DRAINAGE AREA MAP (C-2538-A)

SHEET 4 OF 9 400'

DATE: 11/16/2018 DN: PH DW: PH CK: BRL AP: BRL

FED.RD. DIV.NO.	FEDERAL AID PROJECT NO.		SHEET NO.
6	----		17
STATE	DIST.	COUNTY	
TEXAS	---	WILLIAMSON	
CONT.	SECT.	JOB	HIGHWAY NO.
----	--	---	CR 461

Williamson County, Texas

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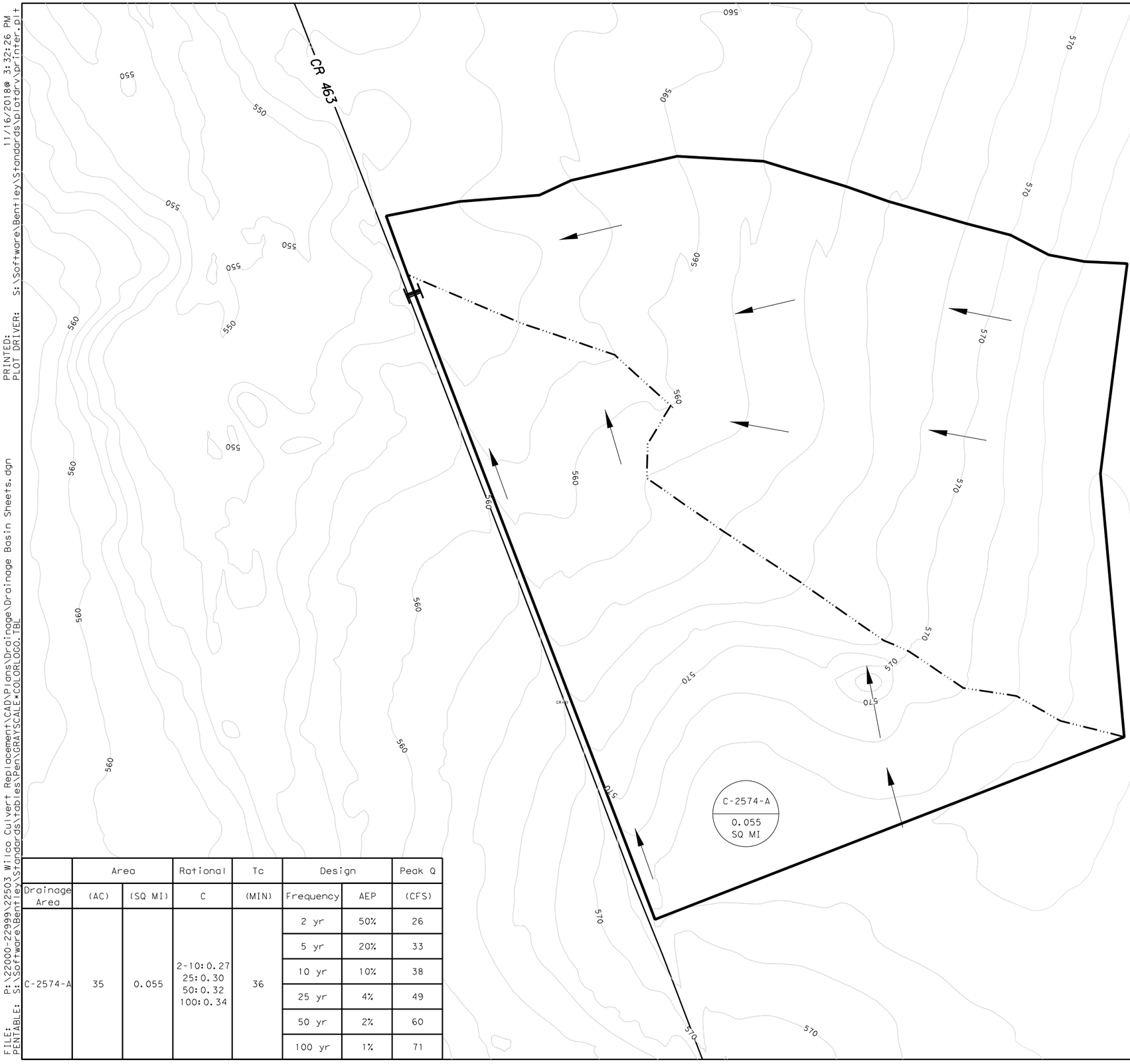

LEGEND

- DRAINAGE BASIN BOUNDARY
- TIME OF CONCENTRATION
- FLOW ARROW

NOTES:

1. PEAK FLOWS DETERMINED BY RATIONAL METHOD.
2. EBD VALUES OBTAINED FROM TABLE 2.6-1 FROM CHAPTER 4 OF WILLIAMSON COUNTY DESIGN CRITERIA MANUAL.
3. RUNOFF COEFFICIENTS WERE OBTAINED FROM TABLE 2.6-3 FROM CHAPTER 4 OF WILLIAMSON COUNTY DESIGN CRITERIA MANUAL.

N

0 100 200
SCALE IN FEET

	Area		Rational	Tc	Design		Peak Q
Drainage Area	(AC)	(SQ MI)	C	(MIN)	Frequency	AEP	(CFS)
C-2574-A	35	0.055	2-10:0.27 25:0.30 50:0.32 100:0.34	36	2 yr	50%	26
					5 yr	20%	33
					10 yr	10%	38
					25 yr	4%	49
					50 yr	2%	60
					100 yr	1%	71

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FY19 CROSS CULVERT REPLACEMENTS

DRAINAGE AREA MAP (C-2574-A)

SHEET 5 OF 9 200'

DATE: 11/16/2018 DN: PH DW: PH CK: BRL AP: BRL

FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		SHEET NO.
6	----		18
STATE	DIST.	COUNTY	
TEXAS	---	WILLIAMSON	
CONT.	SECT.	JOB	HIGHWAY NO.
----	--	---	CR 463

Bid 18112281

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CR 466
CR 467
CR 464
CR 468
CR 484
CR 490

LEGEND

- DRAINAGE BASIN BOUNDARY
- TIME OF CONCENTRATION
- FLOW ARROW

NOTES:

1. THE HYDROLOGIC MODELS WERE DEVELOPED IN HEC-HMS VER 3.5 FOLLOWING TR-55 METHOD.
2. THE CURVE NUMBERS WERE DETERMINED BY FOLLOWING NRCS TR-55 AND ADJUSTED USING THE CLIMATIC ADJUSTMENTS AS DISCUSSED IN CHAPTER 4, SECTION 13 OF 2016 TXDOT HYDRAULIC MANUAL.
3. ACCUMULATED RAINFALL FOR 24 HR STORMS WERE OBTAINED FROM TABLE 2.6-4 FROM CHAPTER 4 OF WILLIAMSON COUNTY DESIGN CRITERIA MANUAL.
4. THE SCS TYPE III 24 HR STORM HYDROGRAPH WAS UTILIZED.

N

0 500 1000
SCALE IN FEET

C-2725-A
1.842
SQ MI

	Area		HEC-HMS	LAG TIME	Design		Peak Q
Drainage Area	(AC)	(SQ MI)	CN	(MIN)	Frequency	AEP	(CFS)
C-2725-A	1179	1.842	57	28	2 yr	50%	321
					5 yr	20%	838
					10 yr	10%	1296
					25 yr	4%	1850
					50 yr	2%	2340
					100 yr	1%	2901

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FY19 CROSS CULVERT REPLACEMENTS

DRAINAGE AREA MAP (C-2725-A)

SHEET 6 OF 9 1000'

DATE: 11/16/2018 DN: PH DW: PH CK: BRL AP: BRL

FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.	SHEET NO.
6	----	19

STATE	DIST.	COUNTY
TEXAS	---	WILLIAMSON

CONT.	SECT.	JOB	HIGHWAY NO.
----	--	---	CR 484

Bid 18112281

Williamson County, Texas

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	Area		Rational	Tc	Design		Peak Q
Drainage Area	(AC)	(SQ MI)	C	(MIN)	Frequency	AEP	(CFS)
C-2752-A	14	0.022	2-10: 0.27 25: 0.30 50: 0.32 100: 0.34	15	2 yr	50%	18
					5 yr	20%	22
					10 yr	10%	25
					25 yr	4%	33
					50 yr	2%	39
					100 yr	1%	47

LEGEND

- DRAINAGE BASIN BOUNDARY
- TIME OF CONCENTRATION
- FLOW ARROW

NOTES:

1. PEAK FLOWS DETERMINED BY RATIONAL METHOD.
2. EBD VALUES OBTAINED FROM TABLE 2.6-1 FROM CHAPTER 4 OF WILLIAMSON COUNTY DESIGN CRITERIA MANUAL.
3. RUNOFF COEFFICIENTS WERE OBTAINED FROM TABLE 2.6-3 FROM CHAPTER 4 OF WILLIAMSON COUNTY DESIGN CRITERIA MANUAL.

N

0 100 200
SCALE IN FEET

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FY19 CROSS CULVERT REPLACEMENTS

DRAINAGE AREA MAP (C-2752-A)

SHEET 7 OF 9 200'

DATE: 11/16/2018 DN: PH DW: PH CK: BRL AP: BRL

FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		SHEET NO.
6	----		20
STATE	DIST.	COUNTY	
TEXAS	---	WILLIAMSON	
CONT.	SECT.	JOB	HIGHWAY NO.
----	--	---	CR 480

Williamson County, Texas
Bid 1811-281

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CR 473
CR 477
CR 480
CR 475
CR 476
CR 481
C-2762-A
1.842 SQ MI

LEGEND

- DRAINAGE BASIN BOUNDARY
- TIME OF CONCENTRATION
- FLOW ARROW

NOTES:

1. THE HYDROLOGIC MODELS WERE DEVELOPED IN HEC-HMS VER 3.5 FOLLOWING TR-55 METHOD.
2. THE CURVE NUMBERS WERE DETERMINED BY FOLLOWING NRCS TR-55 AND ADJUSTED USING THE CLIMATIC ADJUSTMENTS AS DISCUSSED IN CHAPTER 4, SECTION 13 OF 2016 TXDOT HYDRAULIC MANUAL.
3. ACCUMULATED RAINFALL FOR 24 HR STORMS WERE OBTAINED FROM TABLE 2.6-4 FROM CHAPTER 4 OF WILLIAMSON COUNTY DESIGN CRITERIA MANUAL.
4. THE SCS TYPE III 24 HR STORM HYDROGRAPH WAS UTILIZED.

N

0 500 1000
SCALE IN FEET

	Area		HEC-HMS	LAG TIME	Design		Peak Q
Drainage Area	(AC)	(SQ MI)	CN	(MIN)	Frequency	AEP	(CFS)
C-2762-A	1358	2.122	51	41	2 yr	50%	137
					5 yr	20%	483
					10 yr	10%	834
					25 yr	4%	1278
					50 yr	2%	1685
					100 yr	1%	2162

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FY19 CROSS CULVERT REPLACEMENTS

DRAINAGE AREA MAP (C-2762-A)

SHEET 8 OF 9 1000'

DATE: 11/16/2018 DN: PH DW: PH CK: BRL AP: BRL

FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.	SHEET NO.
6	----	21

STATE	DIST.	COUNTY
TEXAS	---	WILLIAMSON

CONT.	SECT.	JOB	HIGHWAY NO.
----	--	---	CR 481

Williamson County, Texas

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LEGEND

- DRAINAGE BASIN BOUNDARY
- TIME OF CONCENTRATION
- FLOW ARROW

NOTES:

1. PEAK FLOWS DETERMINED BY RATIONAL METHOD.
2. EBD VALUES OBTAINED FROM TABLE 2.6-1 FROM CHAPTER 4 OF WILLIAMSON COUNTY DESIGN CRITERIA MANUAL.
3. RUNOFF COEFFICIENTS WERE OBTAINED FROM TABLE 2.6-3 FROM CHAPTER 4 OF WILLIAMSON COUNTY DESIGN CRITERIA MANUAL.

N

0 100 200
SCALE IN FEET

	Area		Rational	Tc	Design		Peak Q
Drainage Area	(AC)	(SQ MI)	C	(MIN)	Frequency	AEP	(CFS)
C-2777-A	17	0.027	2-10: 0.32 25: 0.35 50: 0.38 100: 0.40	41	2 yr	50%	28
					5 yr	20%	35
					10 yr	10%	40
					25 yr	4%	52
					50 yr	2%	62
					100 yr	1%	74

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FY19 CROSS CULVERT REPLACEMENTS

DRAINAGE AREA MAP (C-2777-A)

SHEET 9 OF 9 200'

DATE: 11/16/2018 DN: PH DW: PH CK: BRL AP: BRL

FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		SHEET NO.
6	----		22
STATE	DIST.	COUNTY	
TEXAS	---	WILLIAMSON	
CONT.	SECT.	JOB	HIGHWAY NO.
----	--	---	CR 481

Bid 1811-281

Williamson County, Texas

11/29/2018 8:12 AM

PRINTED: 11/16/2018@ 3:31:45 PM
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FILE: P:\22000-22999\22503 Wilco Culvert Replacement\CAD\Plans\Roadway\CR 461 Intersection Layout.dgn
PENTABLE: S:\Software\Bentley\Standards\tables\Pen\GRAYSCALE*COLORLOGO.TBL

5.05 ACRES
VENCES, ROSALBIA JAIMES
2016122473

APPROXIMATE R.O.W.

PI STATION = 0+71.64
DELTA = 8° 56' 16" (LT)
DEGREE OF CURVE = 19° 05' 55"
TANGENT = 23.45
LENGTH = 46.80
RADIUS = 300.00
PC STATION = 0+48.19
PT STATION = 0+94.99

SURVEY CONTROL POINT
N 3232312.21
E 10131148.83

2 x 145 LF
4" YELLOW
STRIPING

REMOVE FENCE AS
NECESSARY (SUBSIDIARY)

POT 0+00.00

00+0

N 69° 24' 31" E
48.19'

20'

PC 0+48.19

PT 0+94.99

N60° 28' 15"E
10.08'
1+00

PC 1+05.07

CR 461

PT 1+00.27

20'

N 69° 06' 08" E
58.89'

2+00

POT 2+09.15

R 15

CR 460

RELOCATE
DBL ARROW
SIGN

END ROADWAY
REALIGNMENT
STA. 2+01.21
N 3232444.41
E 10131193.74

11 LF
24" WHITE
STRIPING

BEGIN ALIGNMENT
N 3232259.73
E 10131114.62

BEGIN ROADWAY
REALIGNMENT
STA. 0+48.19

APPROXIMATE R.O.W.

PI STATION = 1+27.71
DELTA = 8° 37' 53" (RT)
DEGREE OF CURVE = 19° 05' 55"
TANGENT = 22.64
LENGTH = 45.19
RADIUS = 300.00
PC STATION = 1+05.07
PT STATION = 1+50.27

RELOCATE
STOP SIGN

15.00 ACRES
MARTIN, DAN
2016049881

LEGEND

- EXISTING FENCE LINE
- PROPOSED TEMPORARY CONSTRUCTION EASEMENT
- APPROXIMATE PROPERTY LINE
- PROPOSED CENTERLINE
- EXISTING GROUND PROFILE
- EXISTING WATER LINE
- UT — EXISTING TELECOM LINE
- DITCH FLOWLINE
- OE — EXISTING OVERHEAD ELECTRIC LINE

N

NOTES:

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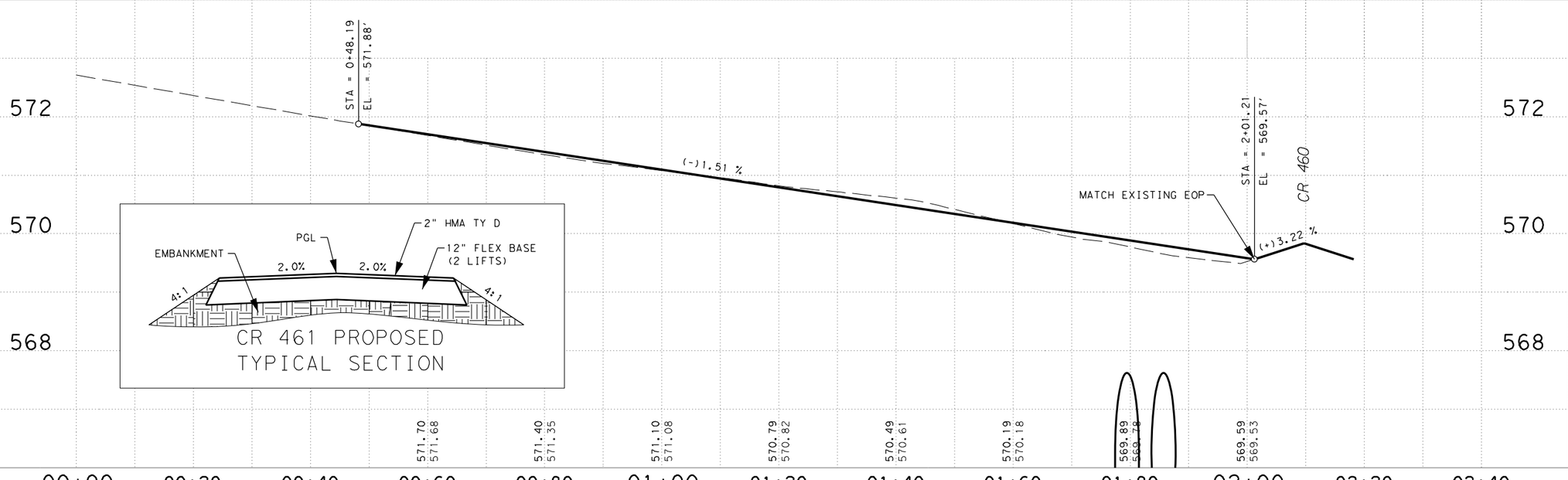
4. CONTRACTOR SHALL RETURN THE GROUND AREA DISTURBED BY CONSTRUCTION ACTIVITY TO EQUAL OR BETTER CONDITION IN SUCH A MANNER AS NOT TO CHANGE THE ROUTE OF STORM WATER FLOW.
5. EXISTING MAILBOXES TO BE RELOCATED TO EDGE OF PROPOSED SHOULDER AS REQUIRED.

0 10 20
SCALE IN FEET

CR 461 PROPOSED
TYPICAL SECTION



STATE OF TEXAS
CURTIS R. STEGER
87905
REGISTERED
PROFESSIONAL ENGINEER
11/15/18

WILLIAMSON COUNTY
1848

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STEGER BIZZELL
TBPE FIRM NO. 181

Michael Baker
INTERNATIONAL
TBPE FIRM NO. 2677

WILLIAMSON COUNTY
FY19 CROSS CULVERT REPLACEMENTS

CR 461
PLAN & PROFILE

SCALE: 1" = 20' H
1" = 2' V

DATE: 11/16/2018	DSN: PH	DW: PH	CK: BRL	AP: BRL	
FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.				SHEET NO.
6	----				23
STATE	DIST.	COUNTY			
TEXAS	---	WILLIAMSON			
CONT.	SECT.	JOB	HIGHWAY NO.		
----	--	---	CR 461		

Bid 18111281

11/29/2018 8:12 AM

PRINTED: 11/18/2018@ 1:07:30 PM
PLOT DRIVER: S:\Software\Bentley\Standards\plotdrv\printer.plt

BEGIN PROJECT
N 3235792.88
E 10135664.14
STA. 0+00.00

PC 0+50.00

PT 1+13.72

CR 463

N 20° 30' 52.22" W
50.00'

20'

N 19° 49' 17.34" W
210.27'

BEGIN ROADWAY
REALIGNMENT
STA. 0+50.00

PROPOSED E.O.P.

PI STATION = 0+81.86
DELTA = 0° 19' 44.01" (RT)
DEGREE OF CURVE = 0° 30' 58.24"
TANGENT = 31.86
LENGTH = 63.72
RADIUS = 11,100.00
PC STATION = 0+50.00
PT STATION = 1+13.72

LEGEND

- EXISTING FENCE LINE
- PROPOSED TEMPORARY CONSTRUCTION EASEMENT
- APPROXIMATE PROPERTY LINE
- PROPOSED CENTERLINE
- EXISTING GROUND PROFILE
- EXISTING WATER LINE
- UT — EXISTING TELECOM LINE
- DITCH FLOWLINE
- OE — EXISTING OVERHEAD ELECTRIC LINE

N

NOTES:

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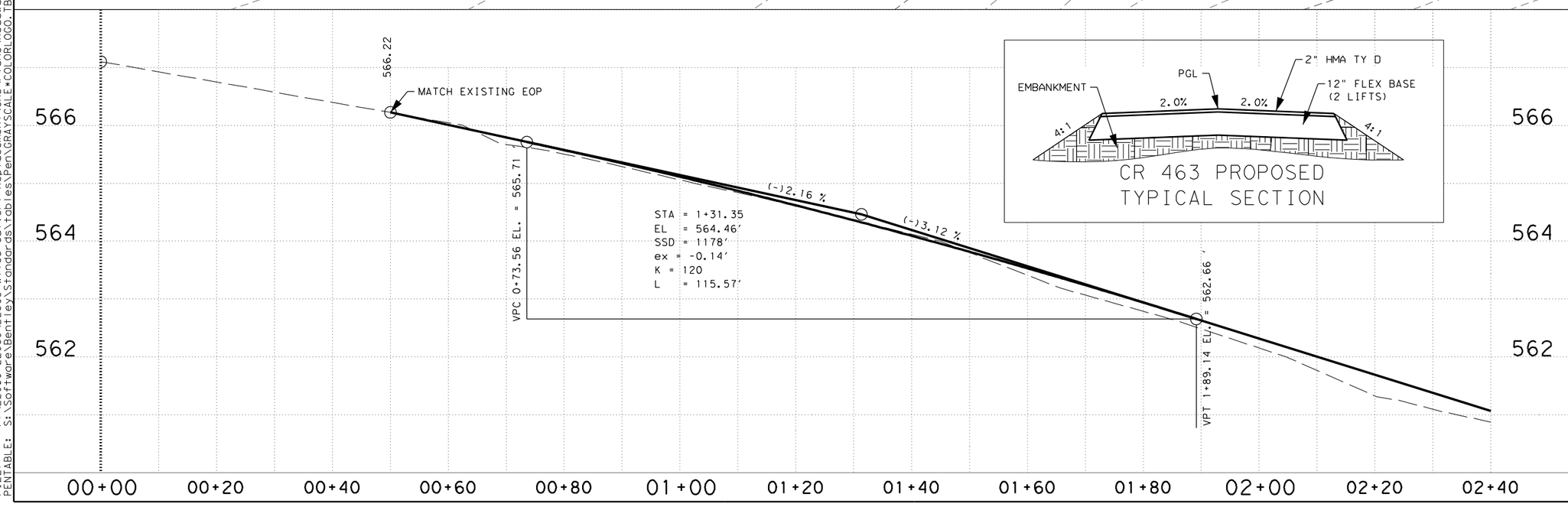
5. EXISTING MAILBOXES TO BE RELOCATED TO EDGE OF PROPOSED SHOULDER AS REQUIRED.

0 10 20
SCALE IN FEET



CR 463 PROPOSED
TYPICAL SECTION

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87905
REGISTERED
PROFESSIONAL ENGINEER
11/18/18

WILLIAMSON COUNTY
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Michael Baker INTERNATIONAL
TBPE FIRM NO. 2677

WILLIAMSON COUNTY
FY19 CROSS CULVERT REPLACEMENTS

CR 463
PLAN & PROFILE
SHEET 1

SCALE: 1" = 20' H
1" = 2' V

DATE: 11/18/2018	DN: PH	DW: PH	CK: BRL	AP: BRL	
FED.RD. DIV.NO.	FEDERAL AID PROJECT NO.				SHEET NO.
6	----				24
STATE	DIST.	COUNTY			
TEXAS	---	WILLIAMSON			
CONT.	SECT.	JOB	HIGHWAY NO.		
----	--	---	CR 463		

FILE: P:\22000-22999\22503 Wilco Culvert Replacement\CAD\Plans\Roadway\CR 463 P&P.dgn
PENTABLE: S:\Software\Bentley\Standards\tables\Pen\GRAYSCALE*COLORLOGO.TBL

Williamson County, Texas
Bid 18111281

11/29/2018 8:12 AM

11/16/2018@ 3:31:47 PM
S:\Software\Bentley\Standards\plotdrv\printer.plt
PRINTED:
PLOT DRIVER:

EXISTING TELEPHONE PEDESTAL TO REMAIN

EXISTING METAL FENCE

EXISTING TELEPHONE PEDESTAL TO REMAIN

REMOVE FENCE AS NECESSARY (SUBSIDIARY)

PC 3+23.99

4" W

CR 463

PC 4+67.65

PT 4+56.61

N 21° 15' 50.17" W
1.05'

PROPOSED E.O.P.

RELOCATE EXISTING MAILBOX

EXISTING WIRE FENCE

PI STATION = 3+90.30
DELTA = 0° 41' 04.36" (LT)
DEGREE OF CURVE = 0° 30' 58.24"
TANGENT = 66.31
LENGTH = 132.62
RADIUS = 11,100.00
PC STATION = 3+23.99
PT STATION = 4+56.61

LEGEND

- EXISTING FENCE LINE
- PROPOSED TEMPORARY CONSTRUCTION EASEMENT
- APPROXIMATE PROPERTY LINE
- PROPOSED CENTERLINE
- EXISTING GROUND PROFILE
- EXISTING WATER LINE
- UT — EXISTING TELECOM LINE
- DITCH FLOWLINE
- OE — EXISTING OVERHEAD ELECTRIC LINE

N

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0 10 20
SCALE IN FEET

559
557
555

VPC 3+31.14 EL. = 558.22'

STA = 4+90.06
EL = 553.25'
ex = 1.80'
K = 70
L = 317.84'

(-)3.12 %

02+40 02+60 02+80 03+00 03+20 03+40 03+60 03+80 04+00 04+20 04+40 04+60 04+80

FILE: P:\22000-22999\22503 Wilco Culvert Replacement\CAD\Plans\Roadway\CR 463 P&P.dgn
PENTABLE: S:\Software\Bentley\Standards\tables\Pen\GRAYSCALE*COLORLOGO.TBL

STATE OF TEXAS
CURTIS R. STEGER
87905
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11/15/18

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WILLIAMSON COUNTY
FY19 CROSS CULVERT REPLACEMENTS

CR 463
PLAN & PROFILE
SHEET 2

SCALE: 1" = 20' H
1" = 2' V

DATE: 11/16/2018	DN: PH	DW: PH	CK: BRL	AP: BRL	
FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.				SHEET NO.
6	----				25
STATE	DIST.	COUNTY			
TEXAS	---	WILLIAMSON			
CONT.	SECT.	JOB		HIGHWAY NO.	
----	--	---			

Williamson County, Texas

Bid 1811-281

11/29/2018 8:12 AM

11/16/2018@ 3:31:48 PM
PRINTED:
PLOT DRIVER:
S:\Software\Bentley\Standards\plotdrv\printer.plt

EXISTING METAL FENCE

PC 4+67.65

PT 5+41.35

CR 463

N 22° 03' 55.72" W
284.91'

0.17" W

PROPOSED E.O.P.

SURVEY CONTROL POINT
N 3235589.73
E 10136249.53

EXISTING WIRE FENCE

EXISTING 24" CMP CULVERT
FL IN = 550.66'
FL OUT = 549.37'

EXISTING METAL GATE

PI STATION = 5+04.50
DELTA = 0° 22' 49.41" (LT)
DEGREE OF CURVE = 0° 30' 58.24"
TANGENT = 36.85
LENGTH = 73.69
RADIUS = 11,100.00
PC STATION = 4+67.65
PT STATION = 5+41.35

LEGEND

- EXISTING FENCE LINE
- PROPOSED TEMPORARY CONSTRUCTION EASEMENT
- APPROXIMATE PROPERTY LINE
- PROPOSED CENTERLINE
- EXISTING GROUND PROFILE
- EXISTING WATER LINE
- UT — EXISTING TELECOM LINE
- DITCH FLOWLINE
- OE — EXISTING OVERHEAD ELECTRIC LINE

N

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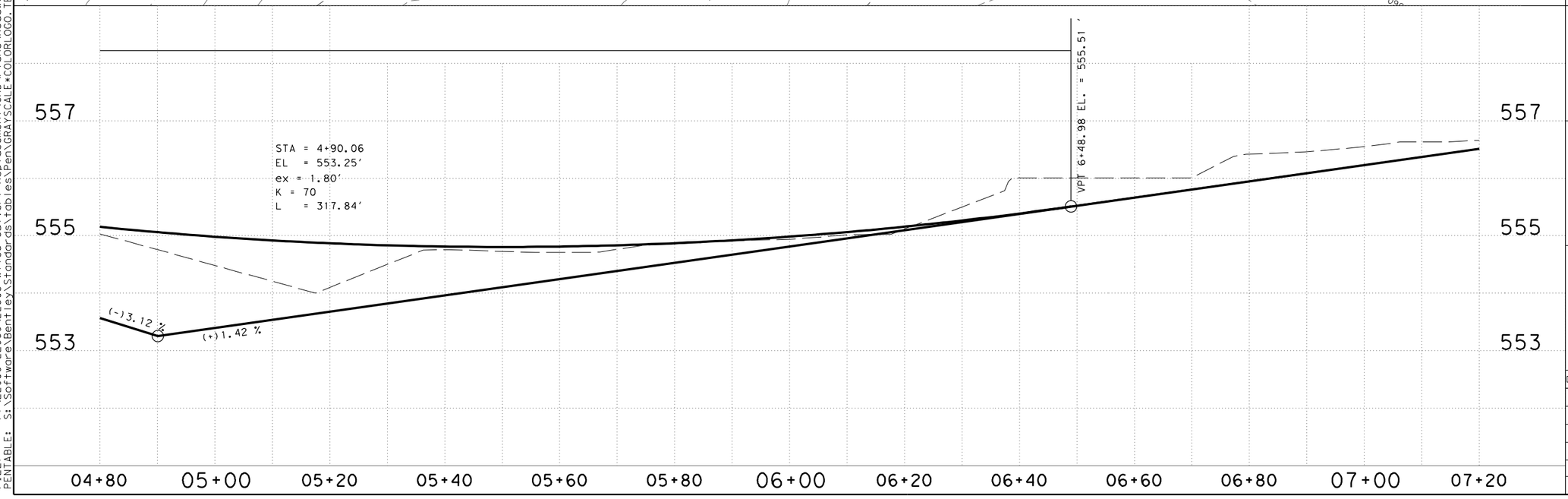
0 10 20
SCALE IN FEET



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11/15/18

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WILLIAMSON COUNTY
FY19 CROSS CULVERT REPLACEMENTS

CR 463
PLAN & PROFILE
SHEET 3

SCALE: 1" = 20' H
1" = 2' V

DATE: 11/16/2018	DN: PH	DW: PH	CK: BRL	AP: BRL

FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		SHEET NO.
6	----		26
STATE	DIST.	COUNTY	
TEXAS	---	WILLIAMSON	
CONT.	SECT.	JOB	HIGHWAY NO.
----	--	---	

Bid 18112281

FILE:
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Williamson County, Texas

11/29/2018 8:12 AM

11/16/2018@ 3:31:49 PM
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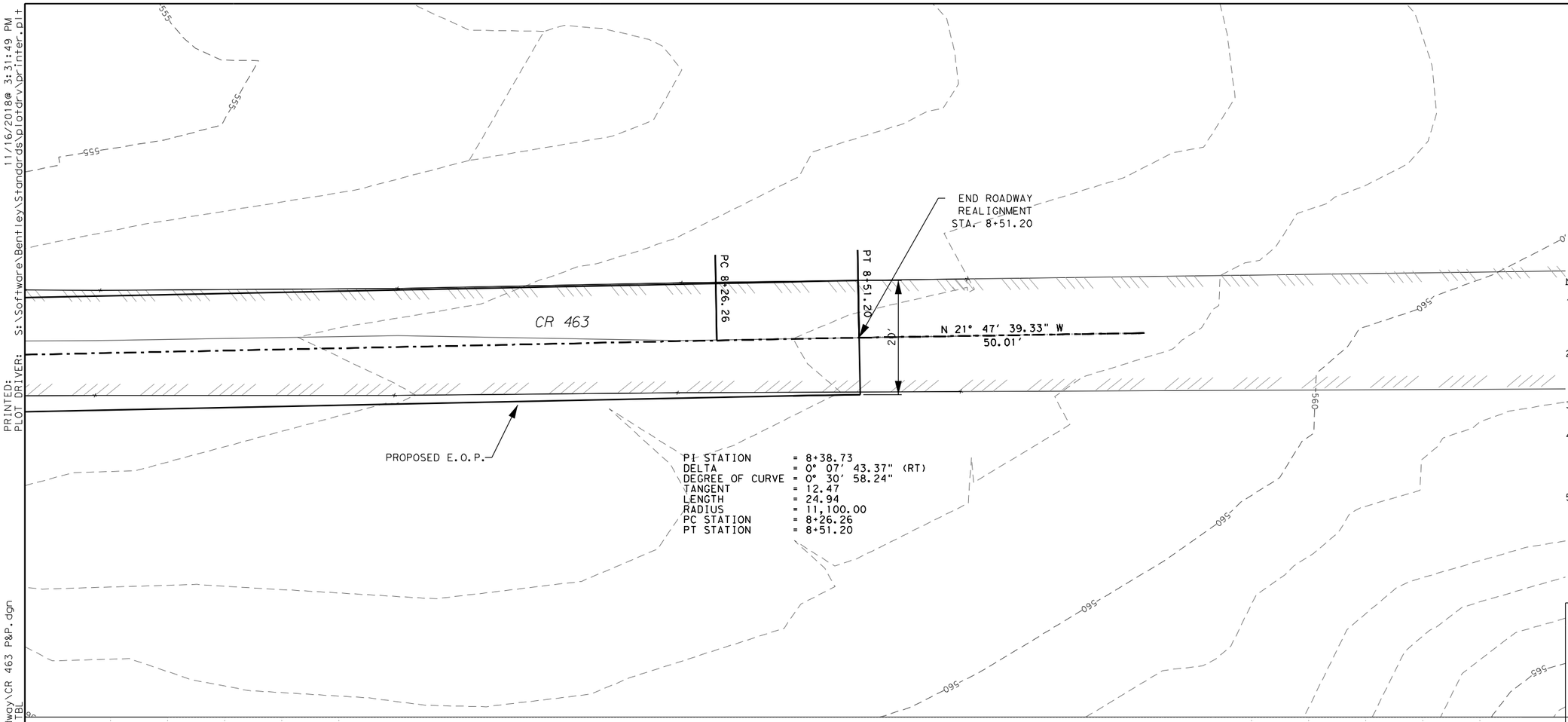

PI STATION = 8+38.73
DELTA = 0° 07' 43.37" (RT)
DEGREE OF CURVE = 0° 30' 58.24"
TANGENT = 12.47
LENGTH = 24.94
RADIUS = 11,100.00
PC STATION = 8+26.26
PT STATION = 8+51.20

LEGEND

- EXISTING FENCE LINE
- PROPOSED TEMPORARY CONSTRUCTION EASEMENT
- APPROXIMATE PROPERTY LINE
- PROPOSED CENTERLINE
- EXISTING GROUND PROFILE
- EXISTING WATER LINE
- UT — EXISTING TELECOM LINE
- DITCH FLOWLINE
- OE — EXISTING OVERHEAD ELECTRIC LINE

N

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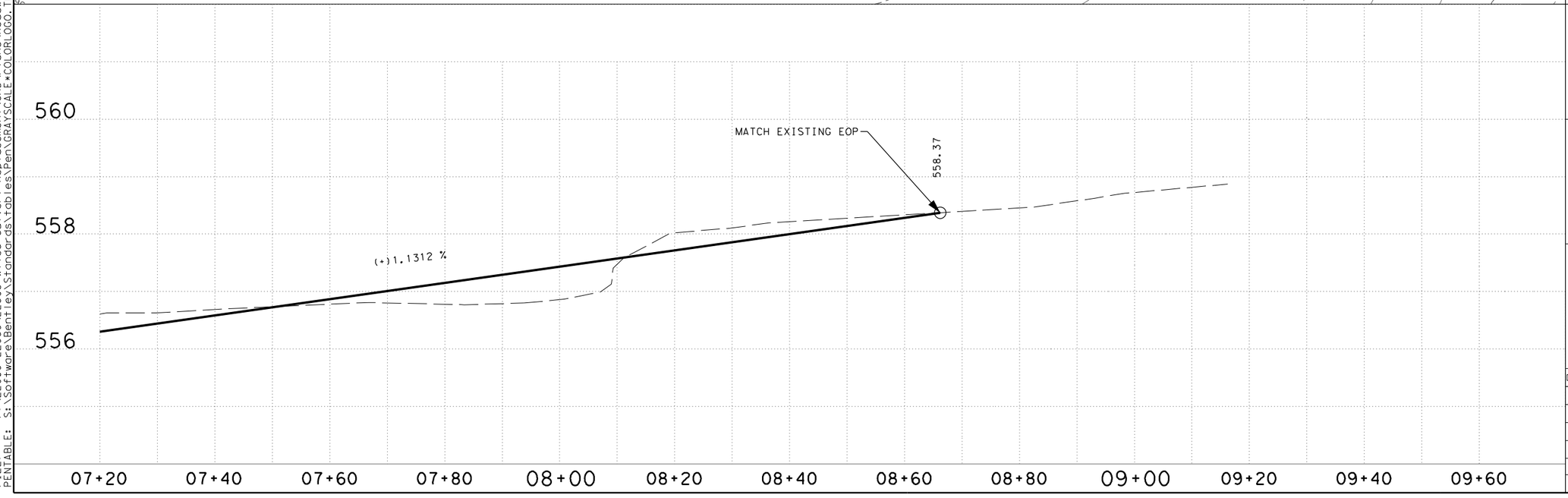
0 10 20
SCALE IN FEET



STATE OF TEXAS
CURTIS R. STEGER
87905
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11/15/18

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1848

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WILLIAMSON COUNTY
FY19 CROSS CULVERT REPLACEMENTS

CR 463
PLAN & PROFILE
SHEET 4

SCALE: 1" = 20' H
1" = 2' V

DATE: 11/16/2018	DN: PH	DW: PH	CK: BRL	AP: BRL	
FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.				SHEET NO.
6	----				27
STATE	DIST.	COUNTY			
TEXAS	---	WILLIAMSON			
CONT.	SECT.	JOB	HIGHWAY NO.		
----	--	---			

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PENTABLE: S:\Software\Bentley\Standards\tables\Pen\GRAYSCALE*COLORLOGO.tbl

Williamson County, Texas

Bid 18-11-281

11/29/2018 8:12 AM

11/16/2018@ 3:32:29 PM
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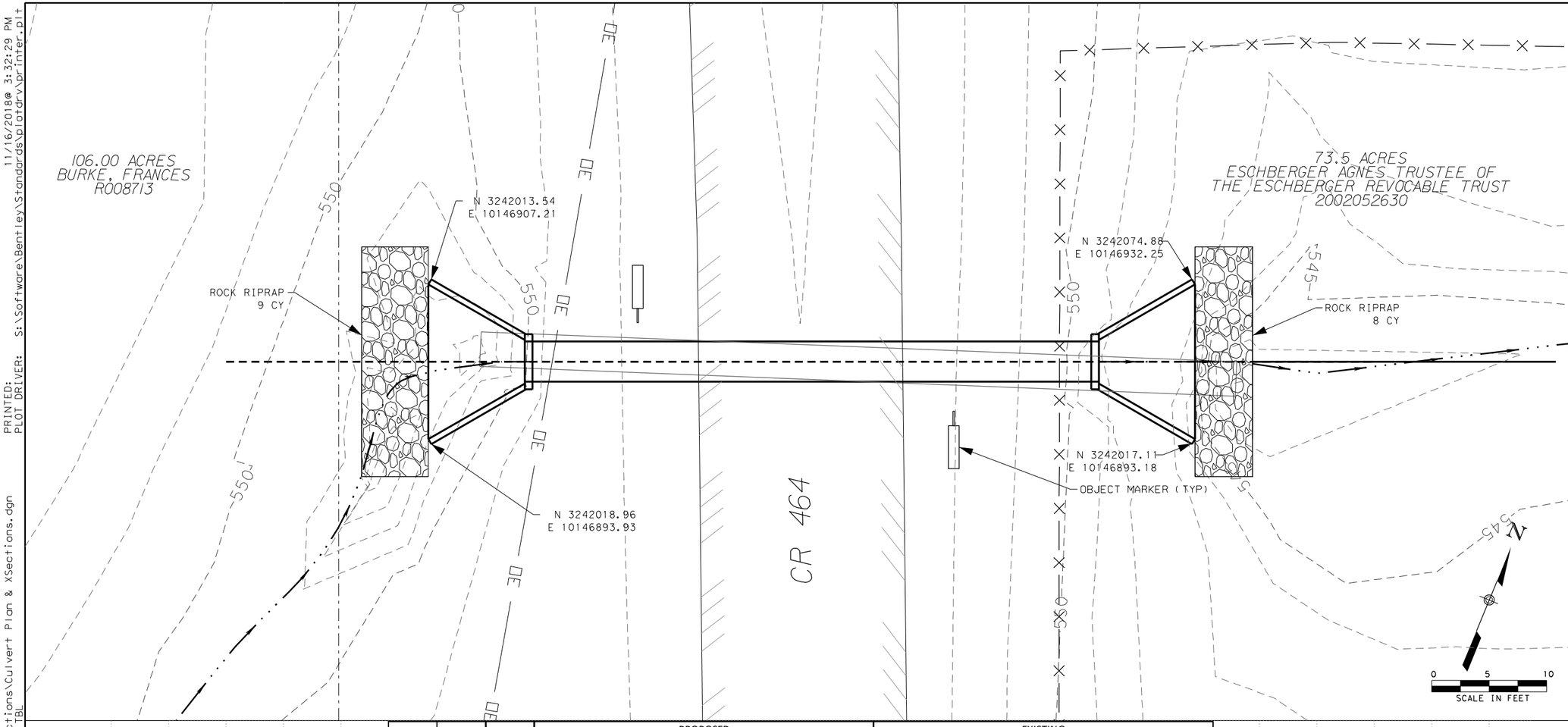
FILE: P:\22000-22999\22503 Wilco Culvert Replacement\CAD\Plans\XSections\Culvert Plan & XSections.dgn
PENTABLE: S:\Software\Bentley\Standards\tables\Pen\GRAYSCALE*COLORLOGO.TBL



LEGEND

- EXISTING FENCE LINE
- PROPOSED TEMPORARY CONSTRUCTION EASEMENT
- APPROXIMATE PROPERTY LINE
- PROPOSED CENTERLINE
- EXISTING GROUND PROFILE
- W — EXISTING WATER LINE
- UT — EXISTING TELECOM LINE
- DITCH FLOWLINE
- OE — EXISTING OVERHEAD ELECTRIC LINE

NOTES:

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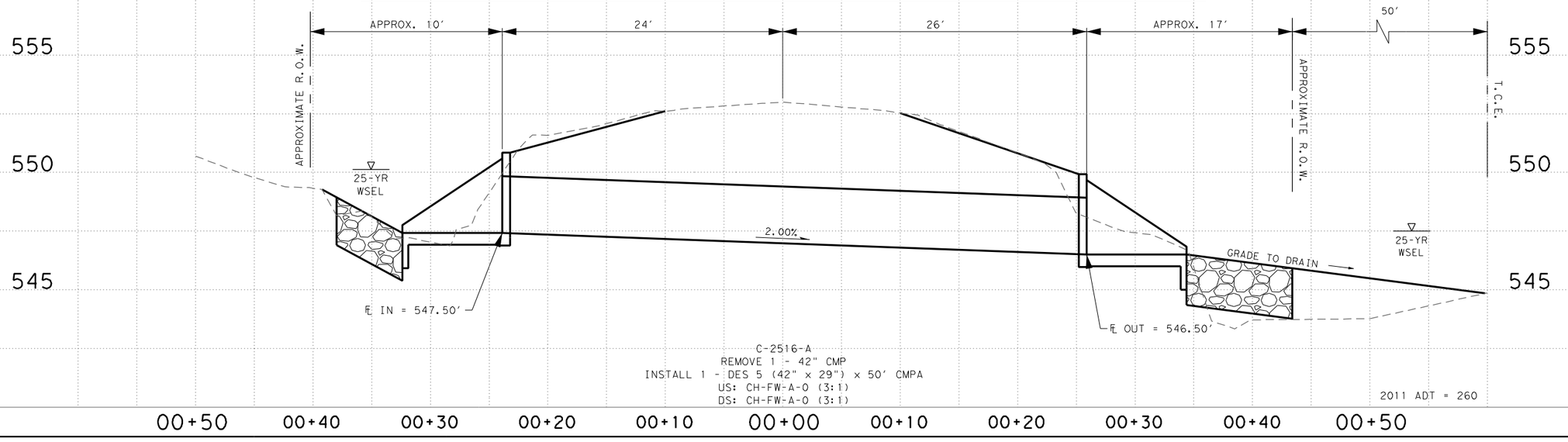
5. EXIST. MAILBOXES TO BE RELOCATED TO EDGE OF PROPOSED SHOULDER AS REQUIRED.

CULVERT	FREQ YR	Q (CFS)	PROPOSED				EXISTING			
			DESCRIPTION	HW ELEV	TW ELEV	V (FT/SEC)	DESCRIPTION	HW ELEV	TW ELEV	V (FT/SEC)
C-2516-A	25	32	1 - DES 5 CMPA	550.15	547.51	7.25	1 - 42" CMP	549.24	545.08	11.23
	100	46		551.38	547.65	8.21		550.02	545.41	11.67



C-2516-A
REMOVE 1 - 42" CMP
INSTALL 1 - DES 5 (42" x 29") x 50′ CMPA
US: CH-FW-A-0 (3:1)
DS: CH-FW-A-0 (3:1)

2011 ADT = 260

STATE OF TEXAS
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87905
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11/15/18

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TBPE FIRM NO. 2677

WILLIAMSON COUNTY
FY19 CROSS CULVERT REPLACEMENTS

C-2516-A
CROSS SECTION

SHEET 02 OF 9

SCALE: 1" = 10′ H
1" = 5′ V

DATE: 11/16/2018 DN: PH DW: PH CK: BRL AP: BRL

FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		SHEET NO.
6	----		28
STATE	DIST.	COUNTY	
TEXAS	---	WILLIAMSON	
CONT.	SECT.	JOB	HIGHWAY NO.
----	--	---	CR 464

Williamson County, Texas

Bid 1811-281

p.70

11/29/2018 8:12 AM

11/16/2018@ 3:32:30 PM
PRINTED:
PLOT DRIVER: S:\Software\Bentley\Standards\plotdrv\printer.plt

FILE: P:\22000-22999\22503 Wilco Culvert Replacement\CAD\Plans\XSections\Culvert Plan & XSections.dgn
PENTABLE: S:\Software\Bentley\Standards\tables\Pen\GRAYSCALE*COLORLOGO.TBL

EXISTING E.O.P.

N 3235610.98
E 10136109.81

PROPOSED E.O.P.

CR 463

EXISTING E.O.P.

PROPOSED E.O.P.

N 3235648.15
E 10136114.87

101.29 ACRES
ESCHBERGER AGNES TRUSTEE OF THE
ESCHBERGER REVOCABLE TRUST
2002052632

CONCRETE RIPRAP
14 CY

CONCRETE RIPRAP
15 CY

15°

14.986 ACRES
DYSON, WILLIAM DARRELL & ROXANNE
2013036553

OBJECT MARKER (TYP)

N 3235673.01
E 10136084.23

N 3235627.14
E 10136068.30

N

0 5 10
SCALE IN FEET

LEGEND

- EXISTING FENCE LINE
- PROPOSED TEMPORARY CONSTRUCTION EASEMENT
- APPROXIMATE PROPERTY LINE
- PROPOSED CENTERLINE
- EXISTING GROUND PROFILE
- W EXISTING WATER LINE
- UT EXISTING TELECOM LINE
- DITCH FLOWLINE
- OE EXISTING OVERHEAD ELECTRIC LINE

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5. EXIST. MAILBOXES TO BE RELOCATED TO EDGE OF PROPOSED SHOULDER AS REQUIRED.

CULVERT	FREQ YR	Q (CFS)	PROPOSED				EXISTING			
			DESCRIPTION	HW ELEV	TW ELEV	V (FT/SEC)	DESCRIPTION	HW ELEV	TW ELEV	V (FT/SEC)
C-2533-A	25	206	2 - DES 7 CMPA	555.04	552.7	7.94	2 - 42" CMP	553.78	550.01	10.61
	100	295		555.33	553.35	8.29		555.26	550.66	11.43

560
555
550
545

T.C.E

APPROXIMATE R.O.W.

APPROX. 9.4'
4' NORMAL

17'
16.5' NORMAL

18'
17.6' NORMAL

APPROX. 27'
26' NORMAL

25-YR WSEL

41.4' (40' NORMAL)

3:1

3:1

℄ IN = 548.50'

℄ OUT = 548.25'

GRADE TO DRAIN

0.71%

GRADE TO DRAIN

C-2533-A
REMOVE 2 - 42" CMP
INSTALL 2 - DES 7 (57" X 38") x 35' CMPA @ 15° SKEW
US: CH-PW-A-S (3:1)
DS: CH-PW-A-S (3:1) , CH-FW-A-15 (3:1)

2011 ADT = 450

00+50 00+40 00+30 00+20 00+10 00+00 00+10 00+20 00+30 00+40 00+50

STATE OF TEXAS
CURTIS R. STEGER
87905
REGISTERED
PROFESSIONAL ENGINEER
11/15/18

WILLIAMSON COUNTY
1848

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STEGER BIZZELL
TBPE FIRM NO. 181

Michael Baker INTERNATIONAL
TBPE FIRM NO. 2677

WILLIAMSON COUNTY
FY19 CROSS CULVERT REPLACEMENTS

C-2533-A
CROSS SECTION

SHEET 03 OF 9

SCALE: 1" = 10' H
1" = 5' V

DATE: 11/16/2018 DN: PH DW: PH CK: BRL AP: BRL

FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.	SHEET NO.
6	----	29

STATE	DIST.	COUNTY
TEXAS	---	WILLIAMSON

CONT.	SECT.	JOB	HIGHWAY NO.
----	--	---	CR 463

Bid 1811-281

Williamson County, Texas

11/29/2018 8:12 AM

11/16/2018@ 3:32:30 PM
PRINTED:
PLOT DRIVER: S:\Software\Bentley\Standards\plotdrv\printer.plt
P:\22000-22999\22503 Wilco Culvert Replacement\CAD\Plans\XSections\Culvert Plan & XSections.dgn
PENTABLE: S:\Software\Bentley\Standards\tables\Pen\GRAYSCALE*COLORLOGO.TBL
FILE:

CR 460

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E 10131215.45

N 3232447.58
E 10131169.42

N 3232406.03
E 10131206.38

N 3232423.43
E 10131160.21

5.05 ACRES
VENCES, ROSALBIA JAIMES
2016122473

15.00 ACRES
MARTIN, DAN
2016049881

APPROX. R.O.W.

CR 461

OBJECT MARKER (TYP)

NOTE: THE PLAT ON THIS PROPERTY DEDICATED TO WILLIAMSON COUNTY FOR ROAD WIDENING OR MAINTENANCE AN AREA OF 32' WEST OF CR 460 ℄ AND 44' NORTH OF CR 461 ℄

LEGEND

- EXISTING FENCE LINE
- PROPOSED TEMPORARY CONSTRUCTION EASEMENT
- APPROXIMATE PROPERTY LINE
- PROPOSED CENTERLINE
- EXISTING GROUND PROFILE
- W — EXISTING WATER LINE
- UT — EXISTING TELECOM LINE
- DITCH FLOWLINE
- OE — EXISTING OVERHEAD ELECTRIC LINE

NOTES:

1. ALL UTILITIES SHOWN ARE BY APPROXIMATE LOCATION ONLY AND ARE TO BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO BEGINNING CONSTRUCTION.
2. CONTRACTOR SHALL REPAIR/RECONNECT EXISTING UTILITIES DISCONNECTED OR DAMAGED DURING CONSTRUCTION.
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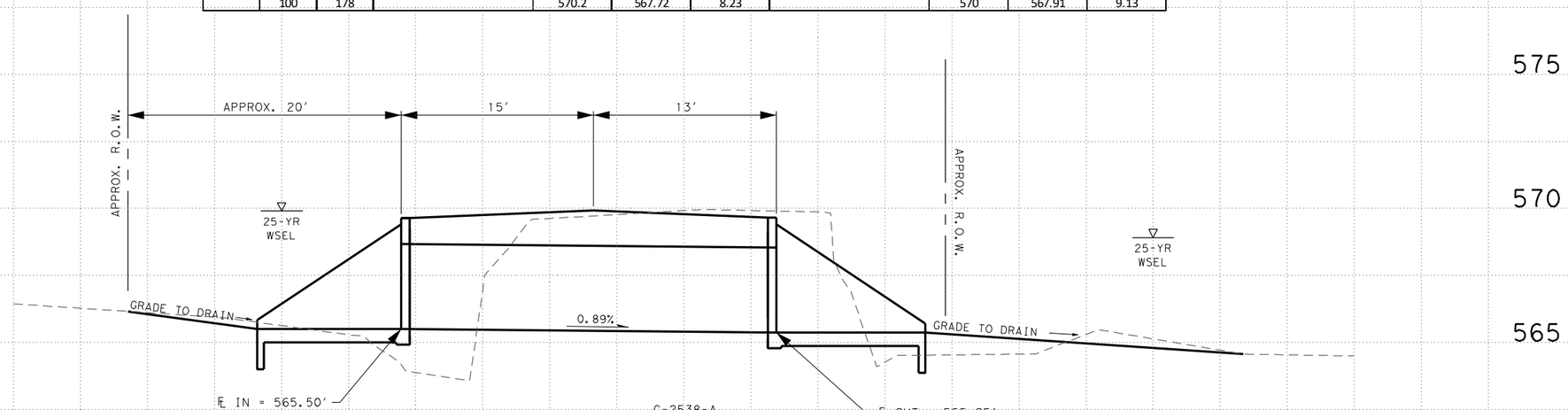
4. CONTRACTOR SHALL RETURN THE GROUND AREA DISTURBED BY CONSTRUCTION ACTIVITY TO EQUAL OR BETTER CONDITION IN SUCH MANNER AS TO NOT CHANGE THE ROUTE OF STORM WATER FLOW.
5. EXIST. MAILBOXES TO BE RELOCATED TO EDGE OF PROPOSED SHOULDER AS REQUIRED.

N

0 5 10
SCALE IN FEET

CULVERT	FREQ YR	Q (CFS)	PROPOSED				EXISTING			
			DESCRIPTION	HW ELEV	TW ELEV	V (FT/SEC)	DESCRIPTION	HW ELEV	TW ELEV	V (FT/SEC)
C-2538-A	25	123	2 - DES 7 CMPA	569.13	567.17	7.3	2 - 42" CMP	568.11	567.36	7.47
	100	178		570.2	567.72	8.23		570	567.91	9.13



C-2538-A
REMOVE 2 - 42" CMP
INSTALL 2 - DES 7 (57" x 38") x 28' CMP
US: CH-FW-A-0 (3:1)
DS: CH-FW-A-0 (3:1)

2011 ADT = 18

STATE OF TEXAS
CURTIS R. STEGER
87905
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PROFESSIONAL ENGINEER
11/15/18

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WILLIAMSON COUNTY
FY19 CROSS CULVERT REPLACEMENTS

C-2538-A
CROSS SECTION

SHEET 04 OF 9
SCALE: 1" = 10' H
1" = 5' V

DATE: 11/16/2018 DN: PH DW: PH CK: BRL AP: BRL

FED.RD. DIV.NO.	FEDERAL AID PROJECT NO.	SHEET NO.
6	----	30

STATE	DIST.	COUNTY
TEXAS	---	WILLIAMSON

CONT.	SECT.	JOB	HIGHWAY NO.
----	--	---	CR 461

Williamson County, Texas
Bid 18111281

11/29/2018 8:12 AM

11/16/2018@ 3:32:31 PM
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PLOT DRIVER: S:\Software\Bentley\Standards\plotdrv\printer.plt
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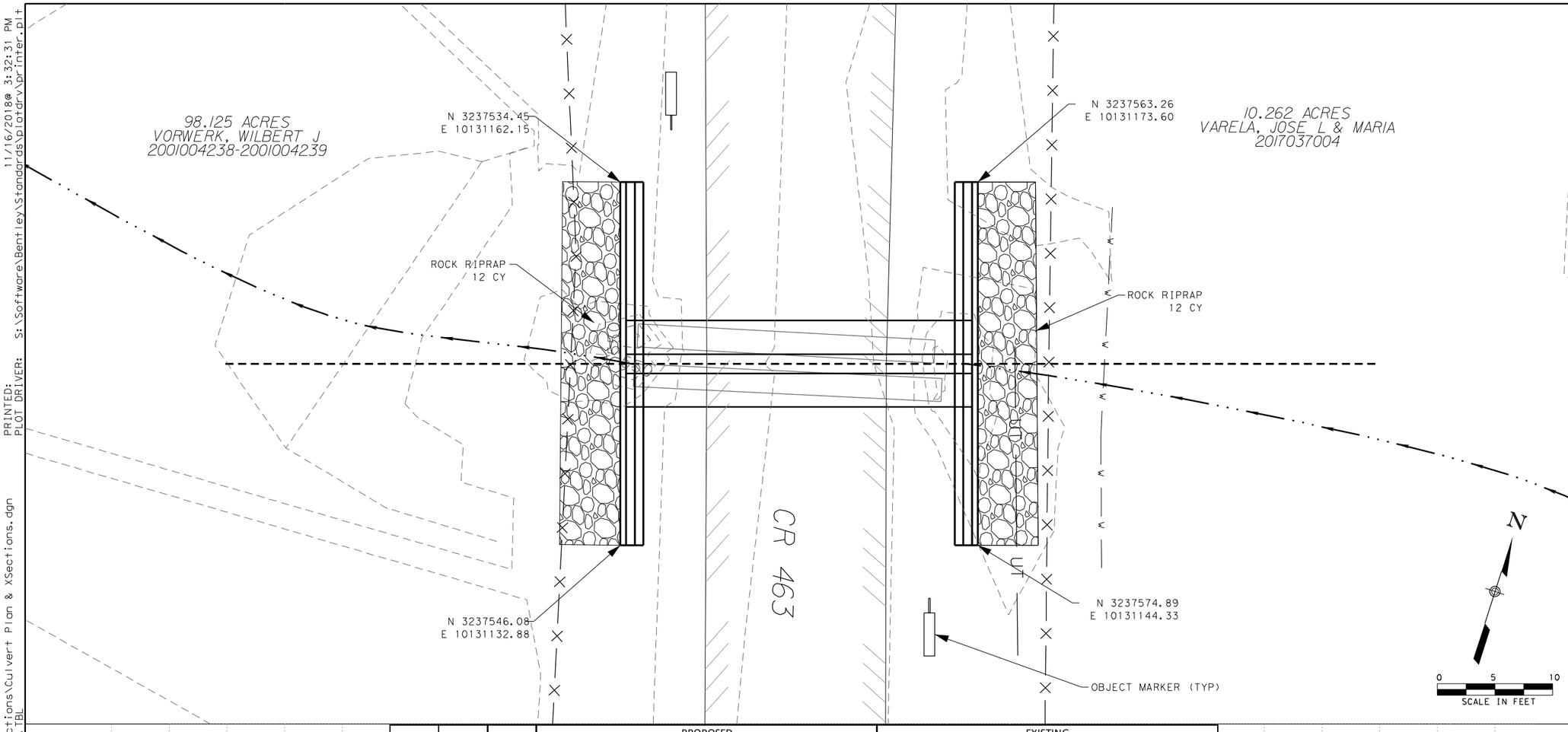

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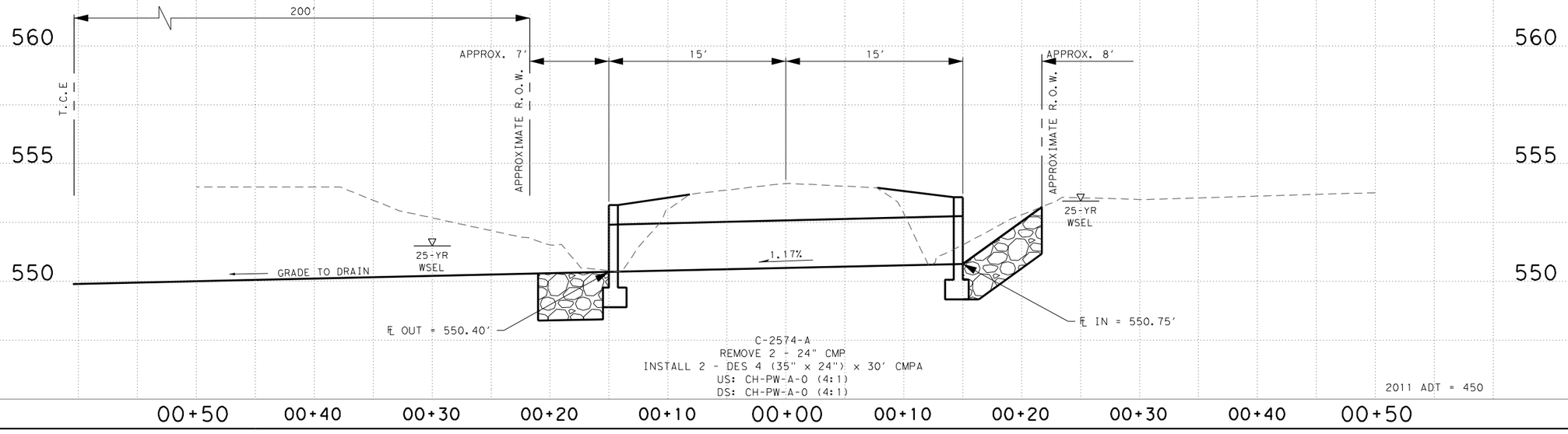
CULVERT	FREQ YR	Q (CFS)	PROPOSED				EXISTING			
			DESCRIPTION	HW ELEV	TW ELEV	V (FT/SEC)	DESCRIPTION	HW ELEV	TW ELEV	V (FT/SEC)
C-2538-A	25	123	2 - DES 7 CMPA	569.9	568.92	5.14	2 - 42" CMP	568.11	567.36	7.47
	100	178		570.26	569.47	5.69		570	567.91	9.13



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11/15/18

WILLIAMSON COUNTY
1848

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TBPE FIRM NO. 181

Michael Baker INTERNATIONAL
TBPE FIRM NO. 2677

WILLIAMSON COUNTY
FY19 CROSS CULVERT REPLACEMENTS

C-2574-A
CROSS SECTION

SCALE: 1" = 10' H
1" = 5' V

SHEET 05 OF 9

DATE: 11/16/2018 DN: PH DW: PH CK: BRL AP: BRL

FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.	SHEET NO.
6	----	31

STATE	DIST.	COUNTY
TEXAS	---	WILLIAMSON

CONT.	SECT.	JOB	HIGHWAY NO.
----	--	---	CR 463

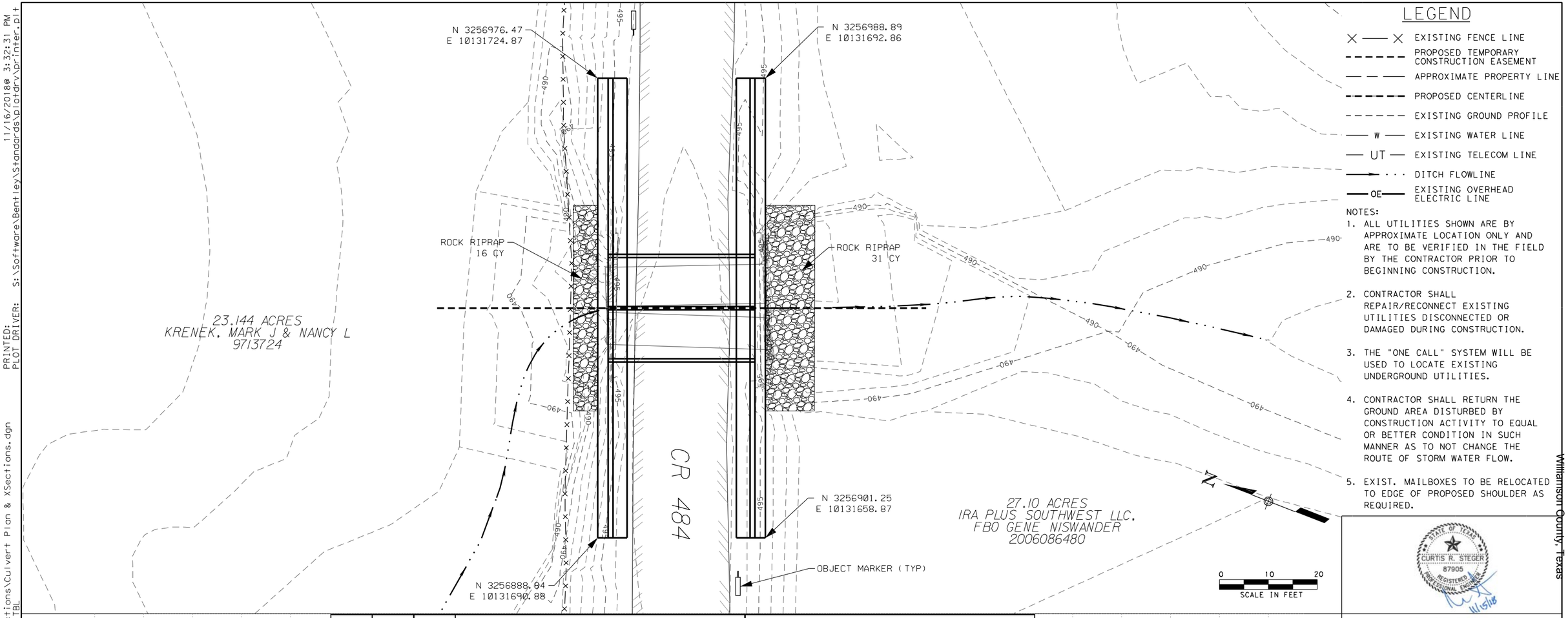
Bid 1811-281

Williamson County, Texas

11/29/2018 8:12 AM

PRINTED: 11/16/2018@ 3:32:31 PM
PLOT DRIVER: S:\Software\Bentley\Standards\plotdrv\printer.plt

FILE: S:\22000-22999\22503 Wilco Culvert Replacement\CAD\Plans\XSections\Culvert Plan & XSections.dgn



LEGEND

- EXISTING FENCE LINE
- PROPOSED TEMPORARY CONSTRUCTION EASEMENT
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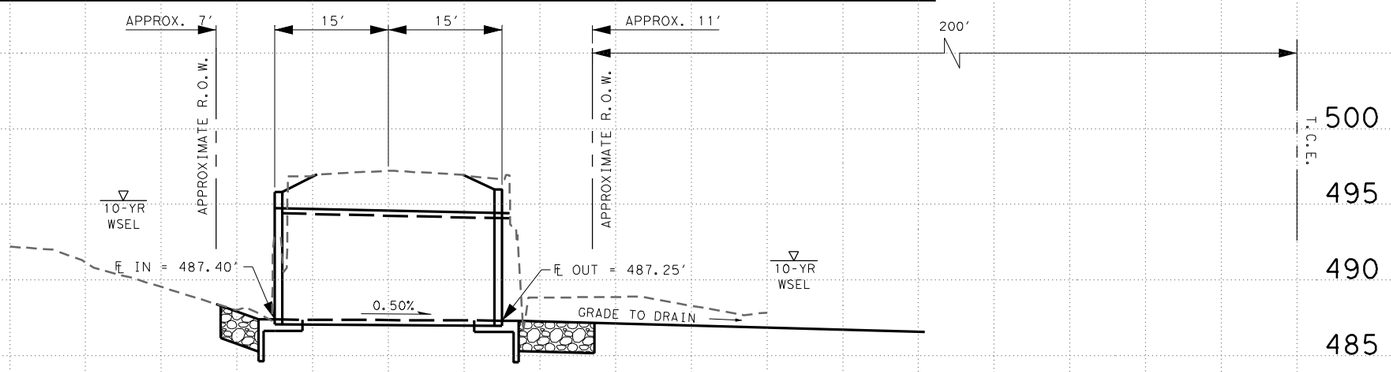
CULVERT	FREQ YR	Q (CFS)	PROPOSED				EXISTING			
			DESCRIPTION	HW ELEV	TW ELEV	V (FT/SEC)	DESCRIPTION	HW ELEV	TW ELEV	V (FT/SEC)
C-2725-A	10	1296	2 - 10' x 8' CBC	495.26	491.26	13.23	1 - 8', 1 - 6.5' STEEL PIPE	496.48	490.08	14.47
	25	1850		496.43	492.08	14		496.87	490.90	14.66
	100	2901		497.04	493.33	12.3		497.27	492.15	14.86



C-2725-A
REMOVE 1 - 8', 1 - 6.5' STEEL PIPE
INSTALL 2 - 10' x 8' x 30' CBC
US: PW-1 (4:1)
DS: PW-1 (4:1)

2011 ADT = 270

00+80 00+60 00+40 00+20 00+00 00+20 00+40 00+60 00+80

100% SUBMITTAL
FOR REVIEW.

THIS DOCUMENT IS RELEASED FOR THE PURPOSE OF INTERIM REVIEW UNDER THE AUTHORITY OF CURTIS R. STEGER, P.E. REG. #87905 ON 11/16/2018. IT IS NOT TO BE USED FOR BIDDING, PERMIT

CURTIS R. STEGER
87905
REGISTERED
PROFESSIONAL ENGINEER
11/16/18

WILLIAMSON COUNTY
1848

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Michael Baker INTERNATIONAL
TBPE FIRM NO. 2677

WILLIAMSON COUNTY
FY19 CROSS CULVERT REPLACEMENTS

C-2725-A
CROSS SECTION

SHEET 06 OF 9

SCALE: 1" = 20' H
1" = 10' V

DATE: 11/16/2018	DN: PH	DW: PH	CK: BRL	AP: BRL

FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.	SHEET NO.
6	----	32

STATE	DIST.	COUNTY
TEXAS	---	WILLIAMSON

CONT.	SECT.	JOB	HIGHWAY NO.
----	--	---	CR 484

Williamson County, Texas

Bid 18111281

11/29/2018 8:12 AM

PRINTED: 11/16/2018@ 3:32:32 PM
PLOT DRIVER: S:\Software\Bentley\Standards\plotdrv\printer.plt

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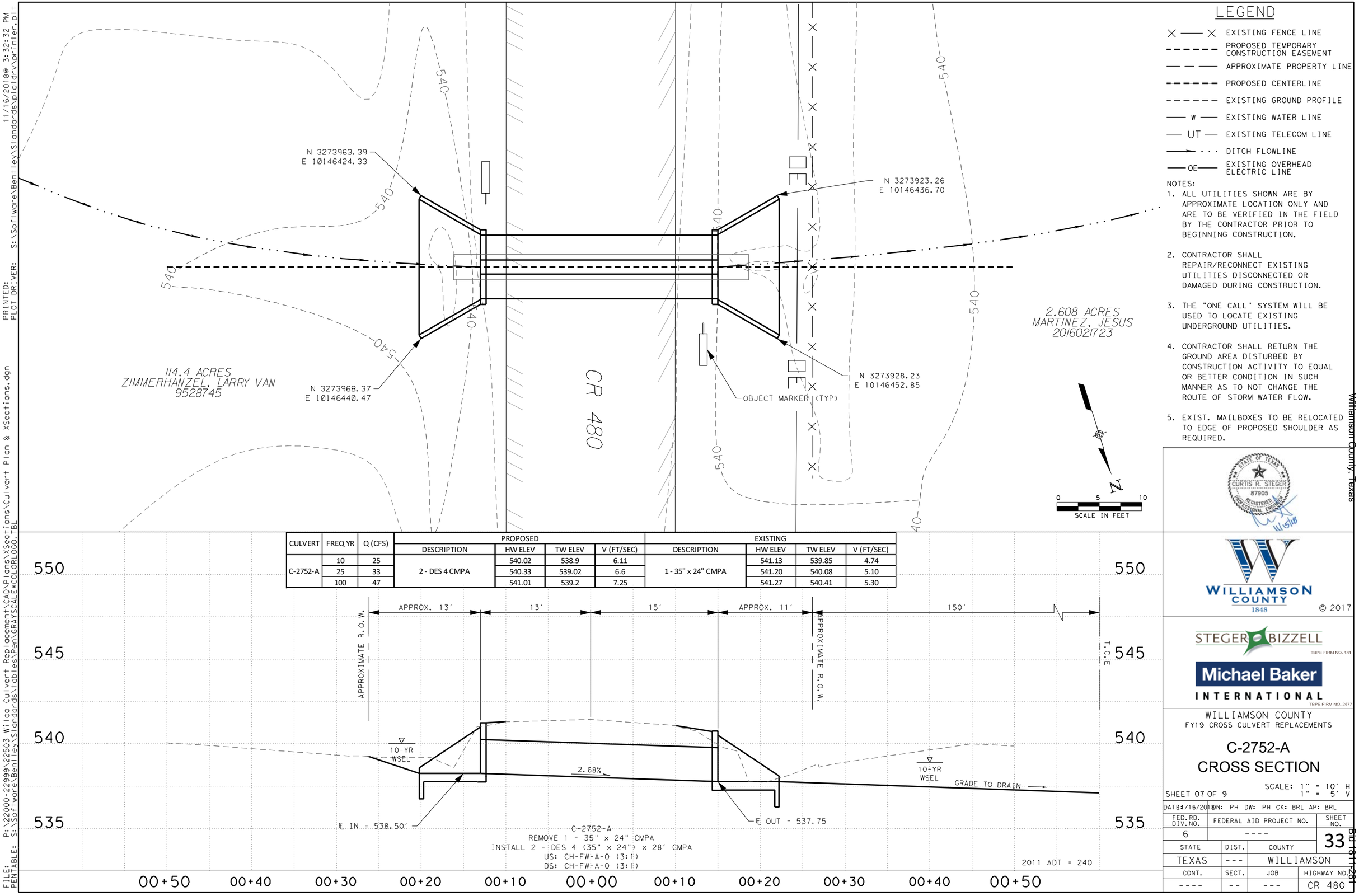

CULVERT	FREQ YR	Q (CFS)	PROPOSED				EXISTING			
			DESCRIPTION	HW ELEV	TW ELEV	V (FT/SEC)	DESCRIPTION	HW ELEV	TW ELEV	V (FT/SEC)
C-2752-A	10	25	2 - DES 4 CMPA	540.02	538.9	6.11	1 - 35" x 24" CMPA	541.13	539.85	4.74
	25	33		540.33	539.02	6.6		541.20	540.08	5.10
	100	47		541.01	539.2	7.25		541.27	540.41	5.30

LEGEND

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1848

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Michael Baker INTERNATIONAL
TBPE FIRM NO. 2677

WILLIAMSON COUNTY
FY19 CROSS CULVERT REPLACEMENTS

C-2752-A
CROSS SECTION

SCALE: 1" = 10′ H
1" = 5′ V

SHEET 07 OF 9

DATE: 11/16/2018 DN: PH DW: PH CK: BRL AP: BRL

FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.	SHEET NO.
6	----	33

STATE	DIST.	COUNTY
TEXAS	---	WILLIAMSON

CONT.	SECT.	JOB	HIGHWAY NO.
----	--	---	CR 480

Williamson County, Texas

Bid 1811-281

11/29/2018 8:12 AM

11/16/2018@ 3:32:33 PM
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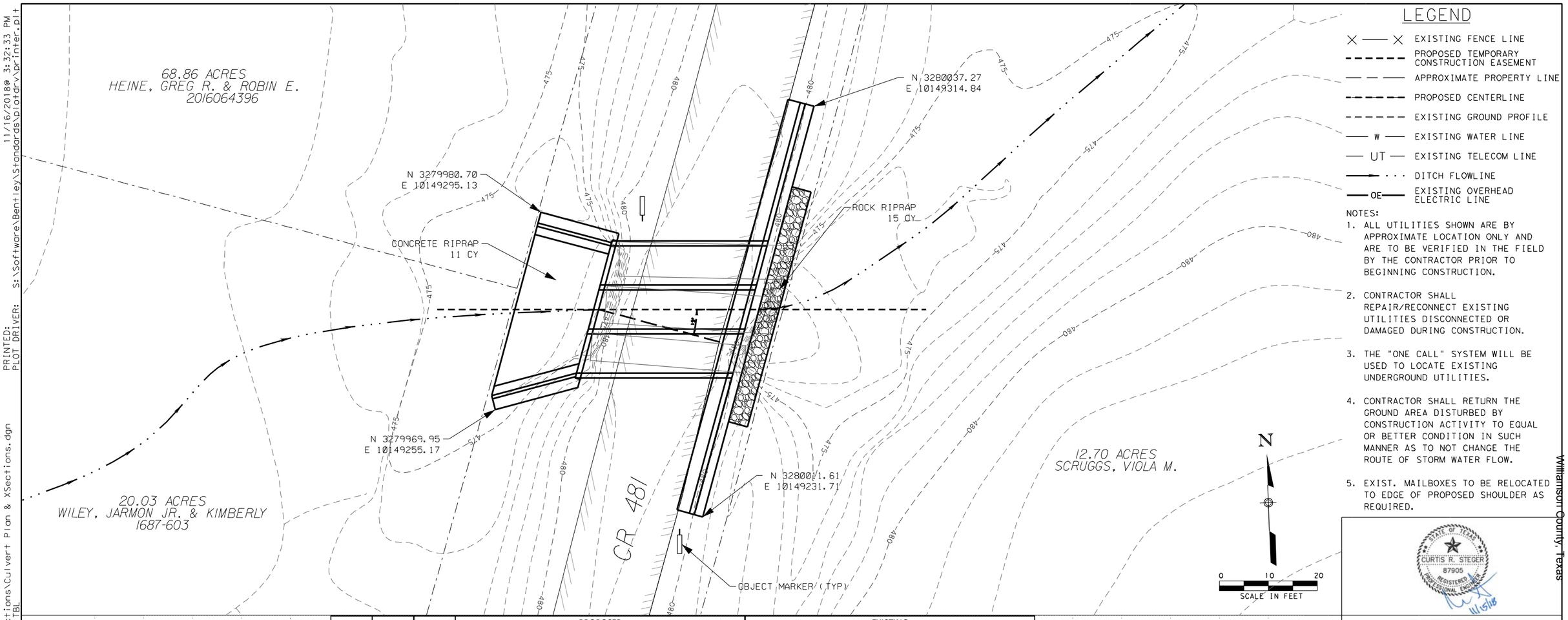

LEGEND

- EXISTING FENCE LINE
- PROPOSED TEMPORARY CONSTRUCTION EASEMENT
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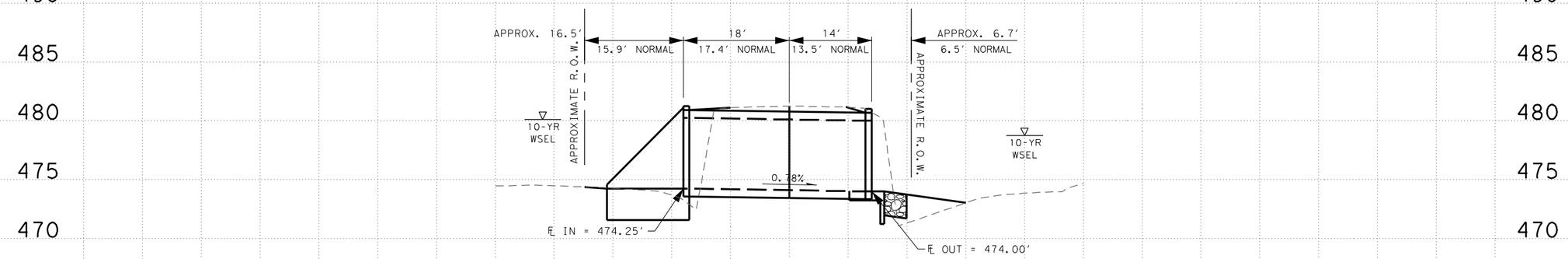
CULVERT	FREQ YR	Q (CFS)	PROPOSED				EXISTING			
			DESCRIPTION	HW ELEV	TW ELEV	V (FT/SEC)	DESCRIPTION	HW ELEV	TW ELEV	V (FT/SEC)
C-2762-A	10	834	3- 8' x 6' CBC	480.11	478.76	7.3	1 - 84", 1 - 92" x 76", 1 - 102" x 84" STEEL PIPE	479.61	476.64	10.15
	25	1278		481.17	479.59	8.16		481.21	477.47	11.55
	100	2162		481.89	480.81	8.67		481.95	478.69	10.45



C-2762-A
REMOVE 1 - 84", 1 - 92" x 76", 1 - 102" x 84" STEEL
INSTALL 3 - 8' x 6' x 32' CBC @ 15° SKEW
US: FW-S (2:1)
DS: PW-1 (4:1)

2011 ADT = 363

100% SUBMITTAL
FOR REVIEW.

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WILLIAMSON COUNTY
FY19 CROSS CULVERT REPLACEMENTS

C-2762-A
CROSS SECTION

SHEET 08 OF 9

SCALE: 1" = 20' H
1" = 10' V

DATE: 11/16/2018 DN: PH DW: PH CK: BRL AP: BRL

FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		SHEET NO.
6	----		34
STATE	DIST.	COUNTY	
TEXAS	---	WILLIAMSON	
CONT.	SECT.	JOB	HIGHWAY NO.
----	--	---	CR 481

Bid 1811-281

Williamson County, Texas

11/29/2018 8:12 AM

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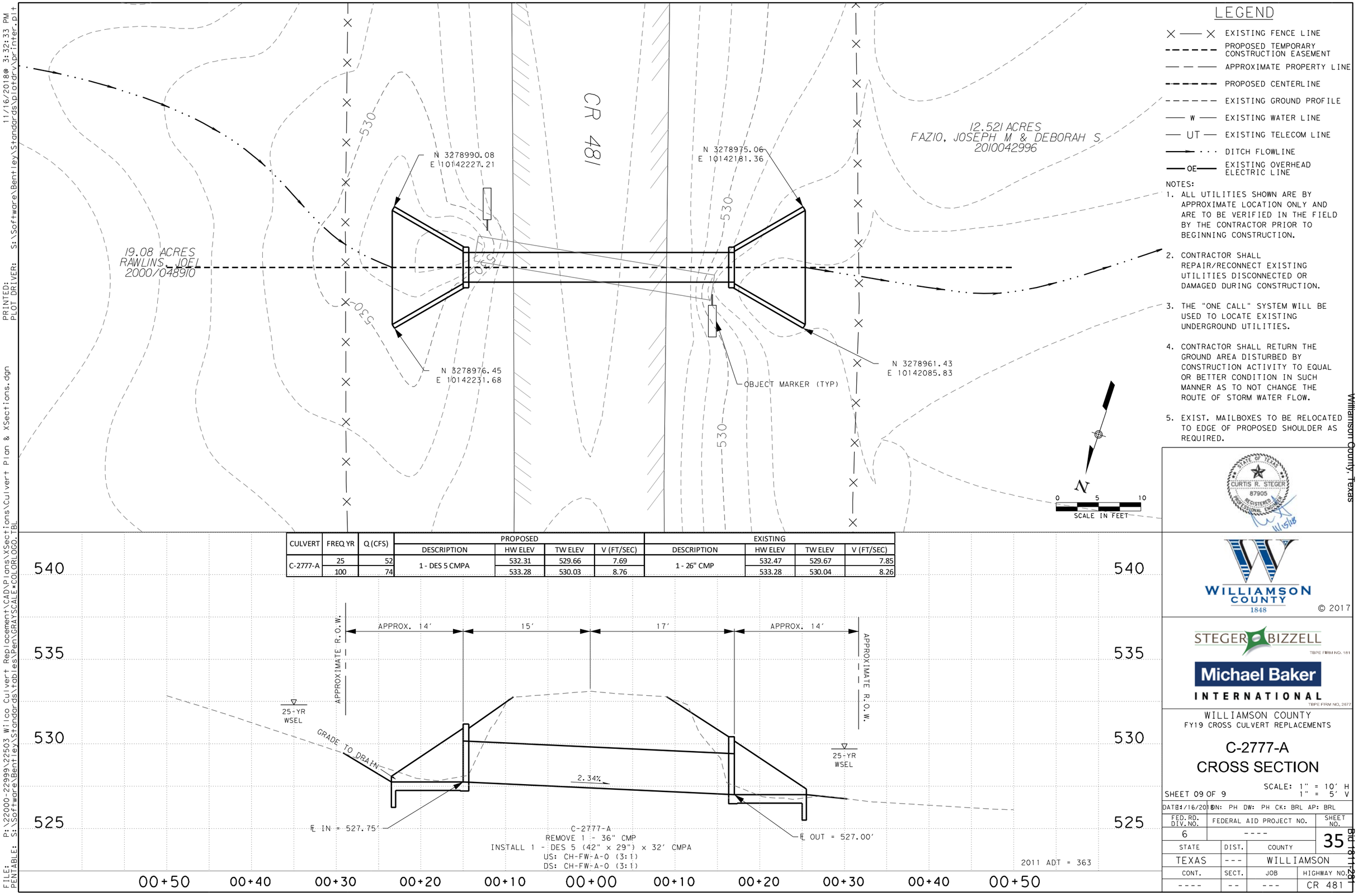

CULVERT	FREQ YR	Q (CFS)	PROPOSED				EXISTING			
			DESCRIPTION	HW ELEV	TW ELEV	V (FT/SEC)	DESCRIPTION	HW ELEV	TW ELEV	V (FT/SEC)
C-2777-A	25	52	1 - DES 5 CMPA	532.31	529.66	7.69	1 - 26" CMP	532.47	529.67	7.85
	100	74		533.28	530.03	8.76		533.28	530.04	8.26

LEGEND

- EXISTING FENCE LINE
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WILLIAMSON COUNTY
FY19 CROSS CULVERT REPLACEMENTS

C-2777-A
CROSS SECTION

SCALE: 1" = 10' H
1" = 5' V

SHEET 09 OF 9

DATE: 11/16/2018 DN: PH DW: PH CK: BRL AP: BRL

FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.	SHEET NO.
6	----	35

STATE	DIST.	COUNTY
TEXAS	---	WILLIAMSON

CONT.	SECT.	JOB	HIGHWAY NO.
----	--	---	CR 481

Bid 18112811

Williamson County, Texas

11/29/2018 8:12 AM

PRINTED: 11/16/2018@ 3:32:34 PM
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PENTABLE: S:\Software\Bentley\Standards\tables\Pen\GRAYSCALE*COLORLOGO.TBL

88.06 ACRES
HEINE ROBIN E. CUSTODIAN FOR
COLTEN R. HEINE
& HUNTER S. HEINE
201305543I

4.44 ACRES
LEAL, REYNALDO & SYLVIA R.
2015078521

CR 450

N 3251685.79
E 10178142.20

N 3251683.27
E 10178148.19

N 3251626.47
E 10178117.30

N 3251623.95
E 10178123.30

ROCK RIPRAP
5 CY

ROCK RIPRAP
8 CY

OBJECT MARKER (TYP)

485 485 485 485 480 480 480 480

LEGEND

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N

0 5 10
SCALE IN FEET

CULVERT	FREQ YR	Q (CFS)	PROPOSED				EXISTING			
			DESCRIPTION	HW ELEV	TW ELEV	V (FT/SEC)	DESCRIPTION	HW ELEV	TW ELEV	V (FT/SEC)
C-2461-A	25	21	1 - DES 5 CMPA	483.44	481.14	8.93	1 - 36" CMP	482.59	480.49	4.46
	100	30		483.99	481.41	9.38		482.84	480.76	5.48

490 485 480 475

APPROXIMATE R.O.W. APPROX. 19′ 20′ 25′ APPROX. 18′ APPROXIMATE R.O.W.

GRADE TO DRAIN
25-YR WSEL
℄ IN = 481.50′
5.00%
℄ OUT = 479.25′
25-YR WSEL
GRADE TO DRAIN

C-2461-A
REMOVE 1 - 36" CMP
INSTALL 1 - DES 5 (42" x 29") x 40′ CMPA
US: SETP-CD-A (4:1)
DS: SETP-CD-A (4:1)

2011 ADT = 590

00+50 00+40 00+30 00+20 00+10 00+00 00+10 00+20 00+30 00+40 00+50

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87905
REGISTERED
PROFESSIONAL ENGINEER
11/15/18

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WILLIAMSON COUNTY
FY19 CROSS CULVERT REPLACEMENTS

C-2461-A
CROSS SECTION

SHEET 01 OF 9

SCALE: 1" = 10′ H
1" = 5′ V

DATE: 11/16/2018 DN: PH DW: PH CK: BRL AP: BRL

FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.	SHEET NO.
6	----	36

STATE	DIST.	COUNTY
TEXAS	---	WILLIAMSON

CONT.	SECT.	JOB	HIGHWAY NO.
----	--	---	CR 450

Bid 1811-281

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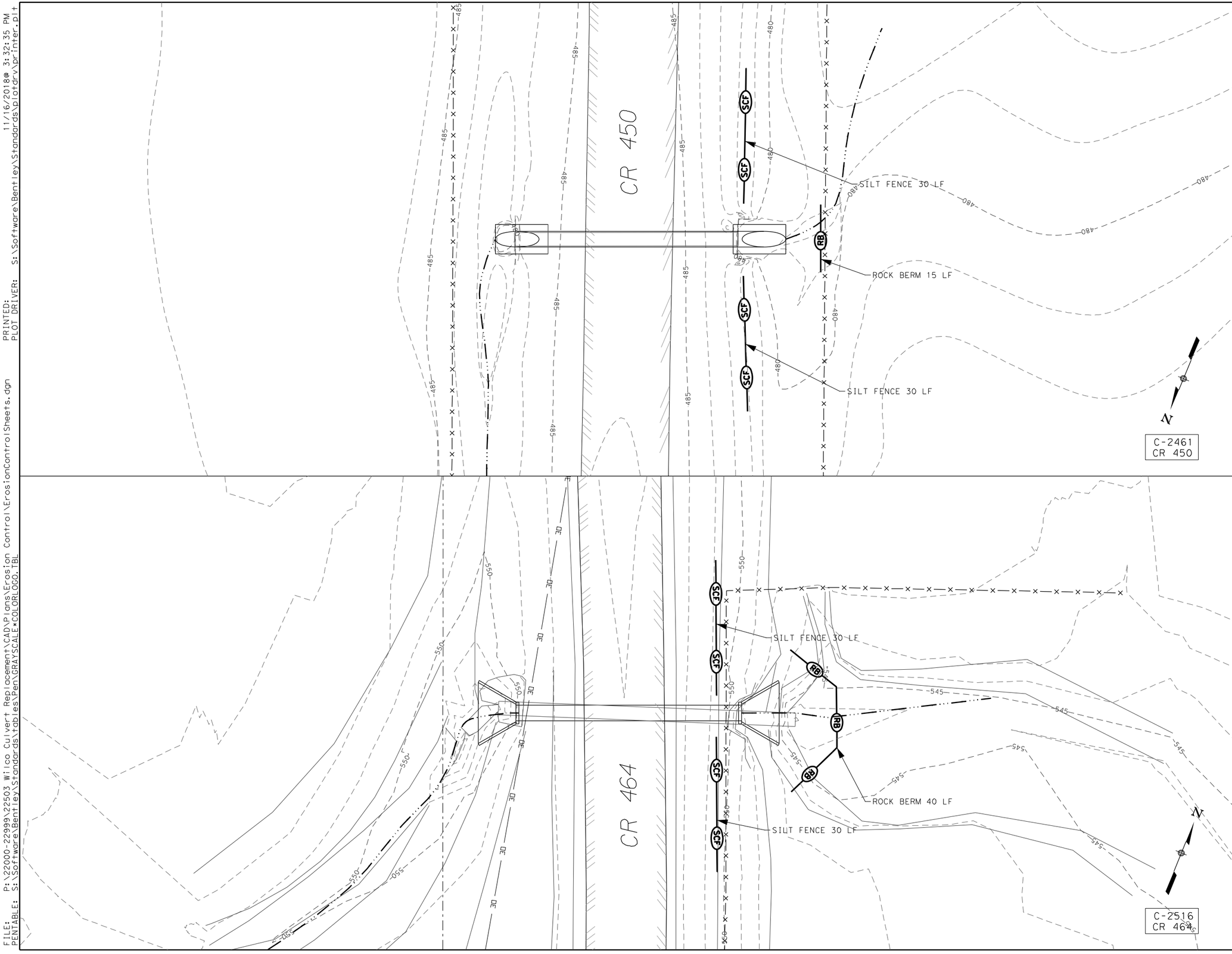

LEGEND

- EXISTING FENCE LINE
- PROPOSED TEMPORARY CONSTRUCTION EASEMENT
- APPROXIMATE PROPERTY LINE
- PROPOSED CENTERLINE
- EXISTING GROUND PROFILE
- W — EXISTING WATER LINE
- UT — EXISTING TELECOM LINE
- OE — EXISTING OVERHEAD ELECTRIC LINE
- DITCH FLOWLINE
- RFD — ROCK BERM
- SCF — SEDIMENT CONTROL FENCE

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EROSION CONTROL PLAN

SHEET 1 OF 5 SCALE: 1"= 20'

DATE: 11/16/2018 DN: PH DW: PH CK: BRL AP: BRL

FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		SHEET NO.
6	----		37
STATE	DIST.	COUNTY	
TEXAS	---	WILLIAMSON	
CONT.	SECT.	JOB	HIGHWAY NO.
----	--	---	CR 450/CR 464

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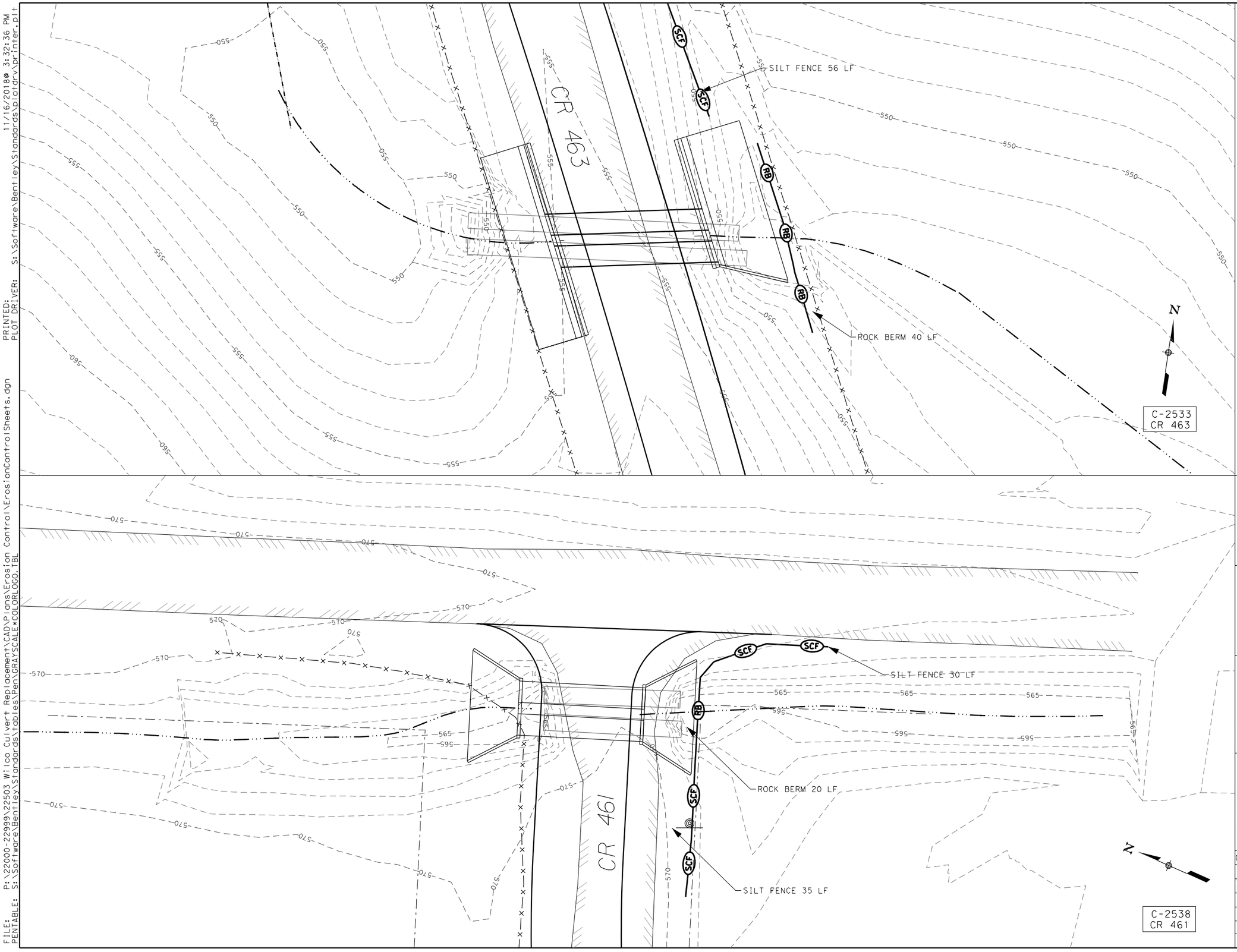

LEGEND

- EXISTING FENCE LINE
- PROPOSED TEMPORARY CONSTRUCTION EASEMENT
- APPROXIMATE PROPERTY LINE
- PROPOSED CENTERLINE
- EXISTING GROUND PROFILE
- EXISTING WATER LINE
- EXISTING TELECOM LINE
- EXISTING OVERHEAD ELECTRIC LINE
- DITCH FLOWLINE
- ROCK BERM
- SEDIMENT CONTROL FENCE

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EROSION CONTROL PLAN

SHEET 2 OF 5 SCALE: 1"= 20'

DATE: 11/16/2018 DN: PH DW: PH CK: BRL AP: BRL

FED.RD. DIV.NO.	FEDERAL AID PROJECT NO.	SHEET NO.
6	----	38

STATE	DIST.	COUNTY	
TEXAS	---	WILLIAMSON	
CONT.	SECT.	JOB	HIGHWAY NO.
----	--	---	CR 463/CR 461

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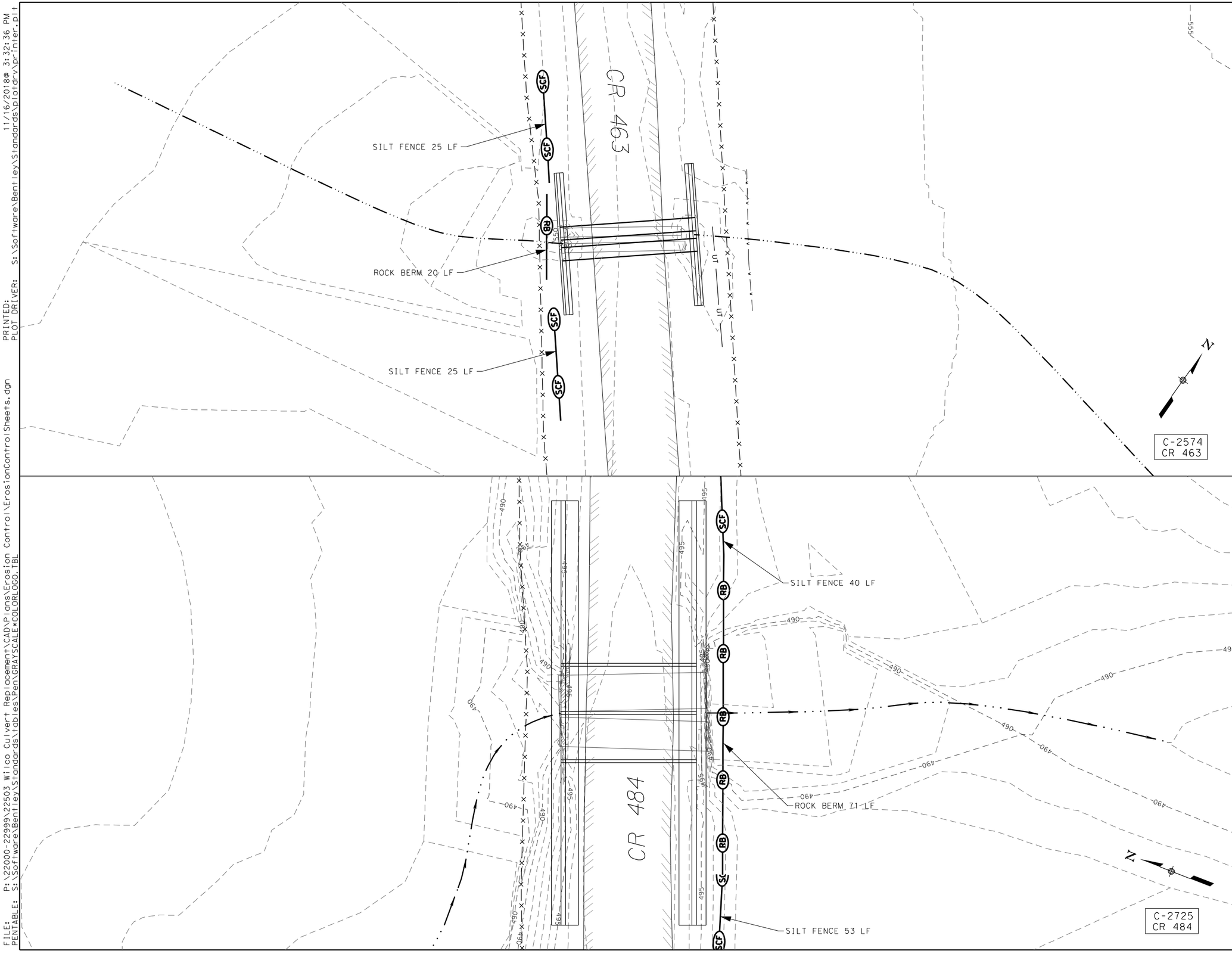

LEGEND

- EXISTING FENCE LINE
- PROPOSED TEMPORARY CONSTRUCTION EASEMENT
- APPROXIMATE PROPERTY LINE
- PROPOSED CENTERLINE
- EXISTING GROUND PROFILE
- EXISTING WATER LINE
- EXISTING TELECOM LINE
- EXISTING OVERHEAD ELECTRIC LINE
- DITCH FLOWLINE
- ROCK BERM
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EROSION CONTROL PLAN

SHEET 3 OF 5 SCALE: 1"= 20'

DATE: 11/16/2018 DN: PH DW: PH CK: BRL AP: BRL

FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.	SHEET NO.
6	----	39

STATE	DIST.	COUNTY	
TEXAS	---	WILLIAMSON	
CONT.	SECT.	JOB	HIGHWAY NO.
----	--	---	CR 463/CR 484

Williamson County, Texas

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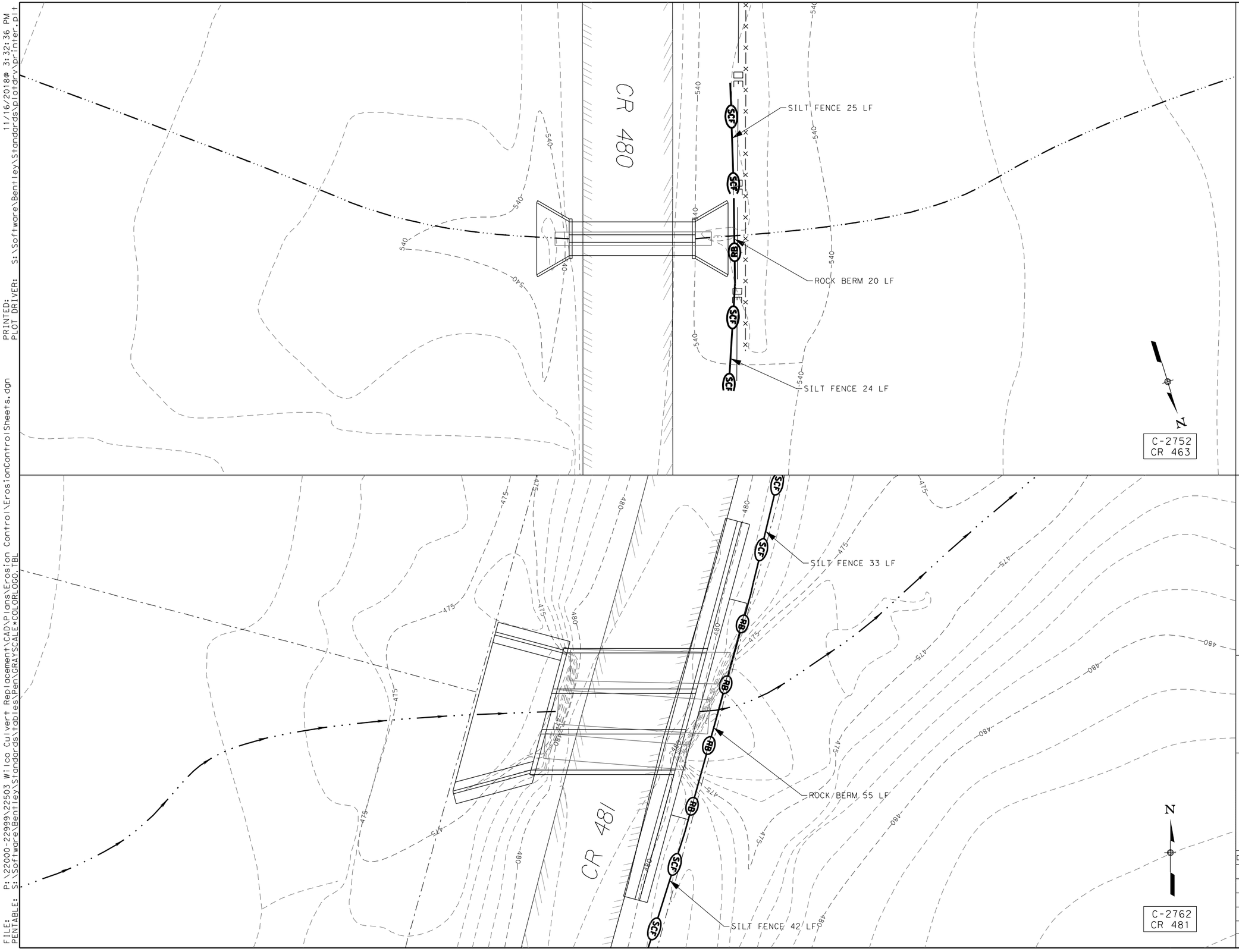

LEGEND

- EXISTING FENCE LINE
- PROPOSED TEMPORARY CONSTRUCTION EASEMENT
- APPROXIMATE PROPERTY LINE
- PROPOSED CENTERLINE
- EXISTING GROUND PROFILE
- EXISTING WATER LINE
- EXISTING TELECOM LINE
- EXISTING OVERHEAD ELECTRIC LINE
- DITCH FLOWLINE
- ROCK BERM
- SEDIMENT CONTROL FENCE

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FY19 CROSS CULVERT REPLACEMENTS

EROSION CONTROL PLAN

SHEET 4 OF 5 SCALE: 1"= 20'

DATE: 11/16/2018 DN: PH DW: PH CK: BRL AP: BRL

FED.RD. DIV.NO.	FEDERAL AID PROJECT NO.	SHEET NO.
6	----	40

STATE	DIST.	COUNTY	
TEXAS	---	WILLIAMSON	
CONT.	SECT.	JOB	HIGHWAY NO.
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Williamson County, Texas

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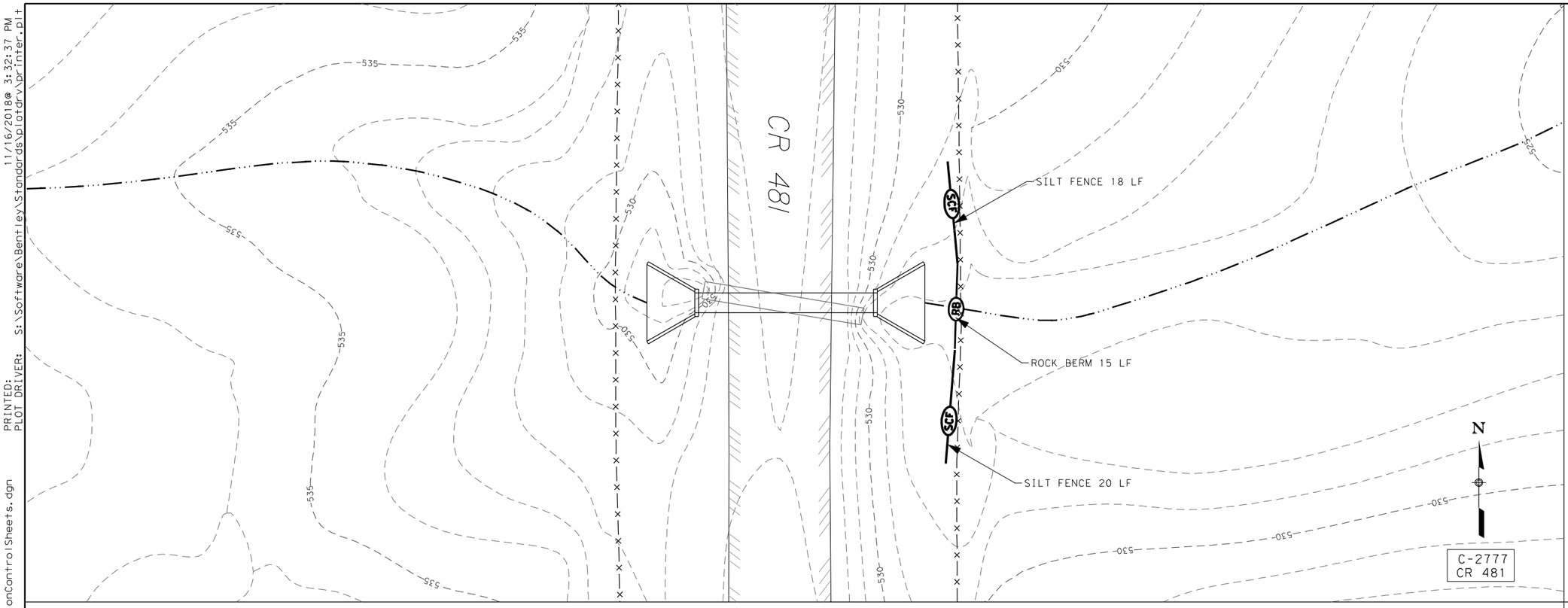

LEGEND

- EXISTING FENCE LINE
- PROPOSED TEMPORARY CONSTRUCTION EASEMENT
- APPROXIMATE PROPERTY LINE
- PROPOSED CENTERLINE
- EXISTING GROUND PROFILE
- EXISTING WATER LINE
- EXISTING TELECOM LINE
- EXISTING OVERHEAD ELECTRIC LINE
- DITCH FLOWLINE
- ROCK BERM
- SEDIMENT CONTROL FENCE

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WILLIAMSON COUNTY
FY19 CROSS CULVERT REPLACEMENTS

EROSION CONTROL PLAN

SHEET 5 OF 5 SCALE: 1"= 20'

DATE: 11/16/2018 DN: PH DW: PH CK: BRL AP: BRL

FED.RD. DIV.NO.	FEDERAL AID PROJECT NO.	SHEET NO.
6	----	41

STATE	DIST.	COUNTY
TEXAS	---	WILLIAMSON

CONT.	SECT.	JOB	HIGHWAY NO.
-----	--	---	CR 481

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Williamson County, Texas
Bid 1811-281

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BARRICADE AND CONSTRUCTION (BC) STANDARD SHEETS GENERAL NOTES:

1. The Barricade and Construction Standard Sheets (BC sheets) are intended to show typical examples for placement of temporary traffic control devices, construction pavement markings, and typical work zone signs. The information contained in these sheets meet or exceed the requirements shown in the "Texas Manual on Uniform Traffic Control Devices" (TMUTCD).

2. The development and design of the Traffic Control Plan (TCP)is the responsibility of the Engineer.

3. The Contractor may propose changes to the TCP that are signed and sealed by a licensed professional engineer for approval. The Engineer may develop, sign and seal Contractor proposed changes.

4. The Contractor is responsible for installing and maintaining the traffic control devices as shown in the plans. The Contractor may not move or change the approximate location of any device without the approval of the Engineer.

5. Geometric design of lane shifts and detours should, when possible, meet the applicable design criteria contained in manuals such as the American Association of State Highway and Transportation Officials (AASHTO), "A Policy on Geometric Design of Highways and Streets," the TxDOT "Roadway Design Manual" or engineering judgment.

6. When projects abut, the Engineer(s) may omit the END ROAD WORK, TRAFFIC FINES DOUBLE, and other advance warning signs if the signing would be redundant and the work areas appear continuous to the motorists. If the adjacent project is completed first, the Contractor shall erect the necessary warning signs as shown on these sheets, the TCP sheets or as directed by the Engineer. The BEGIN ROAD WORK NEXT X MILES sign shall be revised to show appropriate work zone distance.

7. The Engineer may require duplicate warning signs on the median side of divided highways where median width will permit and traffic volumes justify the signing.

8. All signs shall be constructed in accordance with the details found in the "Standard Highway Sign Designs for Texas," latest edition. Sign details not shown in this manual shall be shown in the plans or the Engineer shall provide a detail to the Contractor before the sign is manufactured.

9. The temporary traffic control devices shown in the illustrations of the BC sheets are examples. As necessary, the Engineer will determine the most appropriate traffic control devices to be used.

10. As shown on BC(2), the OBEY WARNING SIGNS STATE LAW sign, STAY ALERT TALK OR TEXT LATER (see Sign Detail G20-10T) and the WORK ZONE TRAFFIC FINES DOUBLE sign with plaque shall be erected in advance of the CSJ limits. However, the TRAFFIC FINES DOUBLE sign will not be required on projects consisting solely of mobile operation work, such as striping or milling edgeline rumble strips. The BEGIN ROAD WORK NEXT X MILES, CONTRACTOR and END ROAD WORK signs shall be erected at or near the CSJ limits.

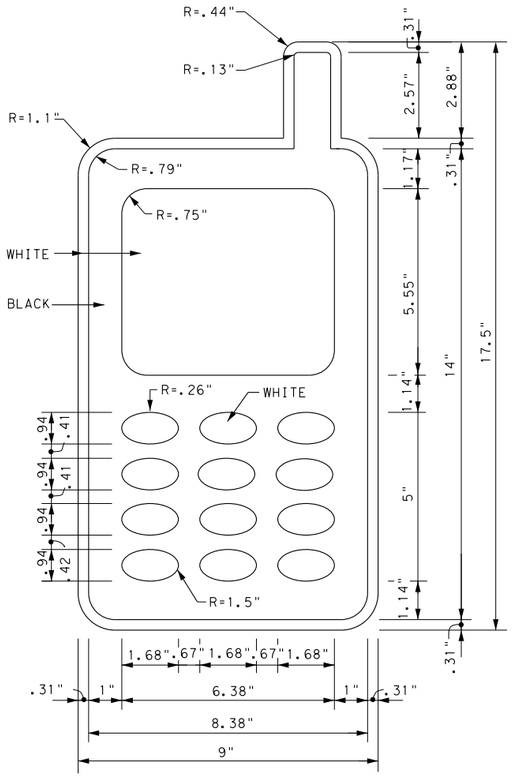
11. Except for devices required by Note 10, traffic control devices should be in place only while work is actually in progress or a definite need exists.

12. The Engineer has the final decision on the location of all traffic control devices.

13. Inactive equipment and work vehicles, including workers' private vehicles must be parked away from travel lanes. They should be as close to the right-of-way line as possible, or located behind a barrier or guardrail, or as approved by the Engineer.

WORKER SAFETY APPAREL NOTES:

1. Workers on foot who are exposed to traffic or to construction equipment within the right-of-way shall wear high-visibility safety apparel meeting the requirements of ISEA "American National Standard for High-Visibility Apparel," or equivalent revisions, and labeled as ANSI 107-2004 standard performance for Class 2 or 3 risk exposure. Class 3 garments should be considered for high traffic volume work areas or night time work.



3.0" Radius, 1.25" Border, 0.75" Indent, Black on Yellow;
[STAY ALERT] Font: D
3.0" Radius, 1.25" Border, 0.75" Indent, Black on Orange;
[TALK OR TEXT LATER] Font: C specified length;

SIGN DETAIL (G20-10T)

Only pre-qualified products shall be used. The "Compliant Work Zone Traffic Control Devices List" (CWZTCD) describes pre-qualified products and their sources and may be found on-line at the web address given below or by contacting:

Texas Department of Transportation
Traffic Operations Division - TE
Phone (512) 416-3118

THE DOCUMENTS BELOW CAN BE FOUND ON-LINE AT http://www.txdot.gov
COMPLIANT WORK ZONE TRAFFIC CONTROL DEVICES LIST (CWZTCD)
DEPARTMENTAL MATERIAL SPECIFICATIONS (DMS)
MATERIAL PRODUCER LIST (MPL)
ROADWAY DESIGN MANUAL - SEE "MANUALS (ONLINE MANUALS)"
STANDARD HIGHWAY SIGN DESIGNS FOR TEXAS (SHSD)
TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD)
TRAFFIC ENGINEERING STANDARD SHEETS

Texas Department of Transportation — Traffic Operations Division Standard

BARRICADE AND CONSTRUCTION GENERAL NOTES AND REQUIREMENTS

BC(1)-14

FILE: bc-14.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
©TxDOT November 2002	CONT	SECT	JOB	HIGHWAY
REVISIONS				
4-03 5-10 8-14	DIST	COUNTY		SHEET NO.
9-07 7-13				

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DATE:
FILE:

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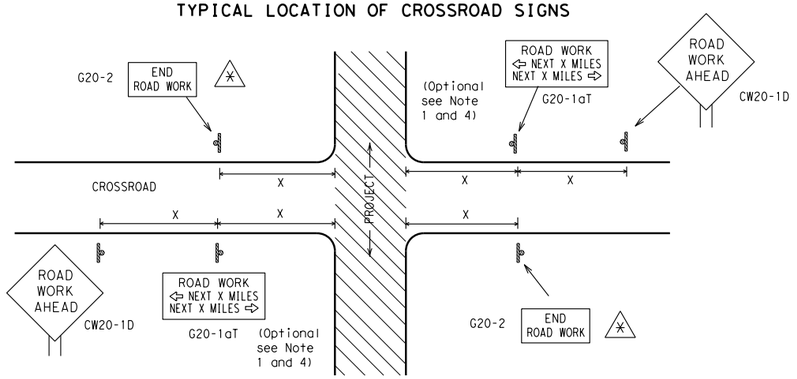
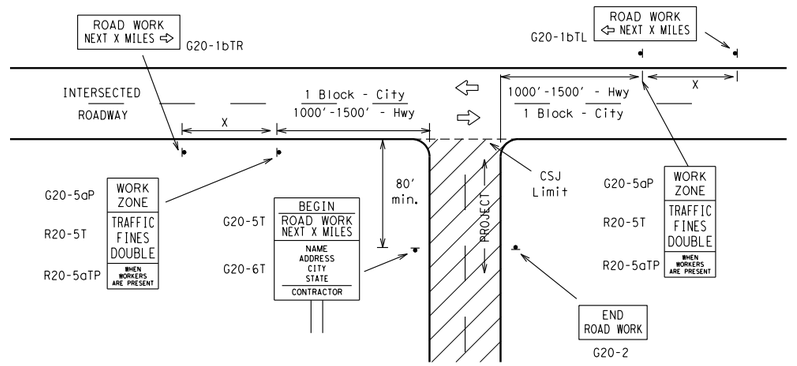
TYPICAL LOCATION OF CROSSROAD SIGNS



✳ May be mounted on back of "ROAD WORK AHEAD"(CW20-1D) sign with approval of Engineer. (See note 2 below)

1. The typical minimum signing on a crossroad approach should be a "ROAD WORK AHEAD" (CW20-1D)sign and a (G20-2) "END ROAD WORK" sign, unless noted otherwise in plans.
2. The Engineer may use the reduced size 36" x 36" ROAD WORK AHEAD (CW20-1D) sign mounted back to back with the reduced size 36" x 18" "END ROAD WORK"(G20-2) sign on low volume crossroads (see Note 4 under "Typical Construction Warning Sign Size and Spacing"). See the "Standard Highway Sign Designs for Texas" manual for sign details. The Engineer may omit the advance warning signs on low volume crossroads. The Engineer will determine whether a road is low volume. This information shall be shown in the plans.
3. Based on existing field conditions, the Engineer/Inspector may require additional signs such as FLAGGER AHEAD, LOOSE GRAVEL, or other appropriate signs. When additional signs are required, these signs will be considered part of the minimum requirements. The Engineer/Inspector will determine the proper location and spacing of any sign not shown on the BC sheets, Traffic Control Plan sheets or the Work Zone Standard Sheets.
4. The "ROAD WORK NEXT X MILES"(G20-1aT)sign shall be required at high volume crossroads to advise motorists of the length of construction in either direction from the intersection. The Engineer will determine whether a roadway is considered high volume.
5. Additional traffic control devices may be shown elsewhere in the plans for higher volume crossroads.
6. When work occurs in the intersection area, appropriate traffic control devices, as shown elsewhere in the plans or as determined by the Engineer/Inspector, shall be in place.

T-INTERSECTION



CSJ LIMITS AT T-INTERSECTION

1. The Engineer will determine the types and location of any additional traffic control devices, such as a flagger and accompanying signs, or other signs, that should be used when work is being performed at or near an intersection.
2. If construction closes the road at a T-intersection the Contractor shall place the "CONTRACTOR NAME"(G20-6T) sign behind the Type 3 Barricades for the road closure (see BC(10) also). The "ROAD WORK NEXT X MILES" left arrow(G20-1bTL) and "ROAD WORK NEXT X MILES" right arrow (G20-1bTR)" signs shall be replaced by the detour signing called for in the plans.

TYPICAL CONSTRUCTION WARNING SIGN SIZE AND SPACING

SIZE

Sign Number or Series	Conventional Road	Expressway/ Freeway
CW20[4] CW21 CW22 CW23 CW25	48" x 48"	48" x 48"
CW1, CW2, CW7, CW8, CW9, CW11, CW14	36" x 36"	48" x 48"
CW3, CW4, CW5, CW6, CW8-3, CW10, CW12	48" x 48"	48" x 48"

SPACING

Posted Speed	Sign Spacing "X" △
MPH	Feet (Apprx.)
30	120
35	160
40	240
45	320
50	400
55	500[2]
60	600[2]
65	700[2]
70	800[2]
75	900[2]
80	1000[2]
✳	✳ [3]

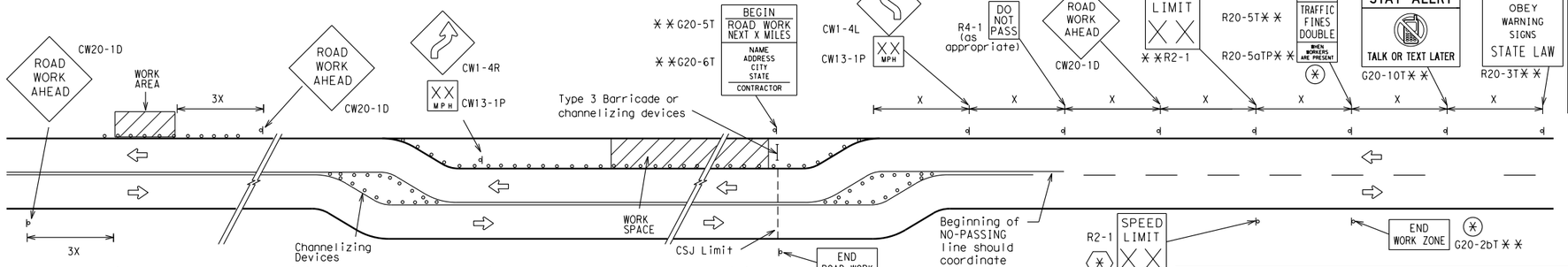
✳ For typical sign spacings on divided highways, expressways and freeways, see Part 6 of the "Texas Manual on Uniform Traffic Control Devices" (TMUTCD) typical application diagrams or TCP Standard Sheets.

△ Minimum distance from work area to first Advance Warning sign nearest the work area and/or distance between each additional sign.

GENERAL NOTES

1. Special or larger size signs may be used as necessary.
2. Distance between signs should be increased as required to have 1500 feet advance warning.
3. Distance between signs should be increased as required to have 1/2 mile or more advance warning.
4. 36" x 36" "ROAD WORK AHEAD" (CW20-1D)signs may be used on low volume crossroads at the discretion of the Engineer. See Note 2 under "Typical Location of Crossroad Signs".
5. Only diamond shaped warning sign sizes are indicated.
6. See sign size listing in "TMUTCD", Sign Appendix or the "Standard Highway Sign Designs for Texas" manual for complete list of available sign design sizes.

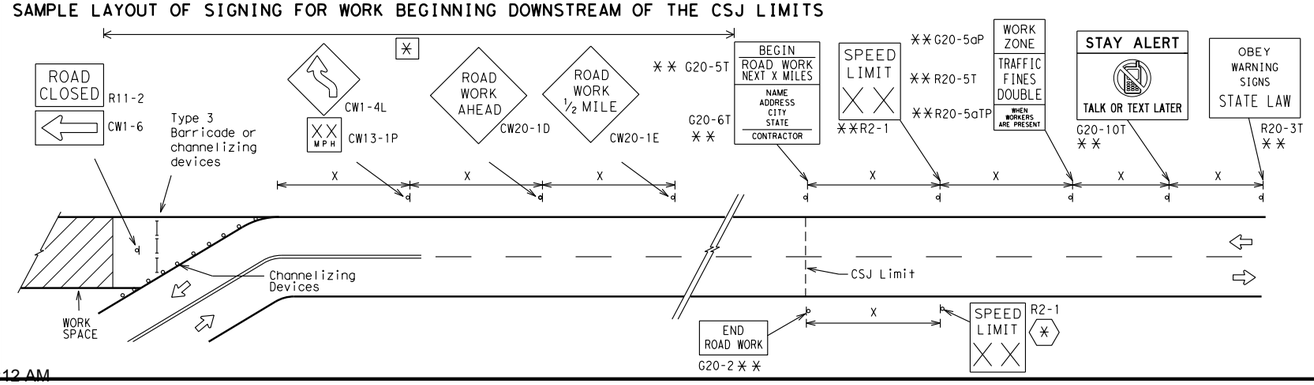
WORK AREAS IN MULTIPLE LOCATIONS WITHIN CSJ LIMITS



When extended distances occur between minimal work spaces, the Engineer/Inspector should ensure additional "ROAD WORK AHEAD"(CW20-1D)signs are placed in advance of these work areas to remind drivers they are still within the project limits. See the applicable TCP sheets for exact location and spacing of signs and channelizing devices.

SAMPLE LAYOUT OF SIGNING FOR WORK BEGINNING AT THE CSJ LIMITS

SAMPLE LAYOUT OF SIGNING FOR WORK BEGINNING DOWNSTREAM OF THE CSJ LIMITS



NOTES

The Contractor shall determine the appropriate distance to be placed on the G20-1 series signs and "BEGIN ROAD WORK NEXT X MILES"(G20-5T)sign for each specific project. This distance shall replace the "X" and shall be rounded to the nearest whole mile with the approval of the Engineer. No decimals shall be used.

(✳) The "BEGIN WORK ZONE"(G20-9TP) and "END WORK ZONE" (G20-2bT) shall be used as shown on the sample layout when advance signs are required outside the CSJ Limits. They inform the motorist of entering or leaving a part of the work zone lying outside the CSJ Limits where traffic fines may double if workers are present.

✳✳ Required CSJ Limit signing. See Note 10 on BC(1). TRAFFIC FINES DOUBLE signs will not be required on projects consisting solely of mobile operations work.

[✳] Area for placement of "ROAD WORK AHEAD" (CW20-1D)sign and other signs or devices as called for on the Traffic Control Plan.

(✳) Contractor will install a regulatory speed limit sign at the end of the work zone.

LEGEND	
⊢⊣	Type 3 Barricade
○ ○ ○	Channelizing Devices
▬	Sign
X	See Typical Construction Warning Sign Size and Spacing chart or the TMUTCD for sign spacing requirements.

SHEET 2 OF 12

Texas Department of Transportation

Traffic Operations Division Standard

BARRICADE AND CONSTRUCTION PROJECT LIMIT

BC(2)-14

FILE: bc-14.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
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REVISIONS				
9-07 8-14	DIST	COUNTY		SHEET NO.
7-13				43

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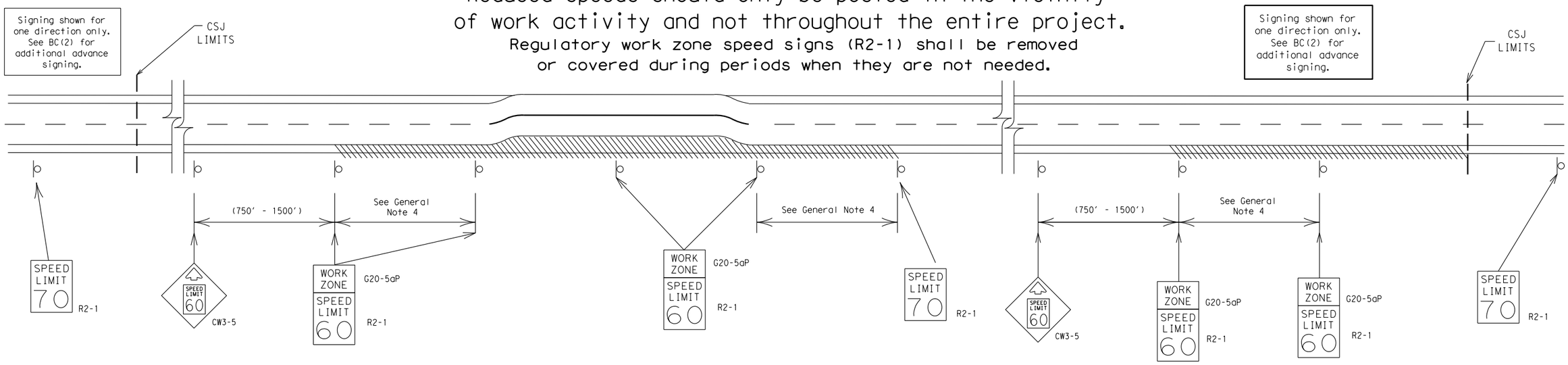
TYPICAL APPLICATION OF WORK ZONE SPEED LIMIT SIGNS

Work zone speed limits shall be regulatory, established in accordance with the "Procedures for Establishing Speed Zones," and approved by the Texas Transportation Commission, or by City Ordinance when within Incorporated City Limits.

Reduced speeds should only be posted in the vicinity of work activity and not throughout the entire project.

Regulatory work zone speed signs (R2-1) shall be removed or covered during periods when they are not needed.



GUIDANCE FOR USE:

LONG/INTERMEDIATE TERM WORK ZONE SPEED LIMITS

This type of work zone speed limit should be included on the design of the traffic control plans when restricted geometrics with a lower design speed are present in the work zone and modification of the geometrics to a higher design speed is not feasible.

Long/Intermediate Term Work Zone Speed Limit signs, when approved as described above, should be posted and visible to the motorist when work activity is present. Work activity may also be defined as a change in the roadway that requires a reduced speed for motorists to safely negotiate the work area, including:

a) rough road or damaged pavement surface
b) substantial alteration of roadway geometrics (diversions)
c) construction detours
d) grade
e) width
f) other conditions readily apparent to the driver

As long as any of these conditions exist, the work zone speed limit signs should remain in place.

SHORT TERM WORK ZONE SPEED LIMITS

This type of work zone speed limit may be included on the design of the traffic control plans when workers or equipment are not behind concrete barrier, when work activity is within 10 feet of the traveled way or actually in the travelled way.

Short Term Work Zone Speed Limit signs should be posted and visible to the motorists only when work activity is present. When work activity is not present, signs shall be removed or covered.
(See Removing or Covering on BC(4)).

GENERAL NOTES

1. Regulatory work zone speed limits should be used only for sections of construction projects where speed control is of major importance.
2. Regulatory work zone speed limit signs shall be placed on supports at a 7 foot minimum mounting height.
3. Speed zone signs are illustrated for one direction of travel and are normally posted for each direction of travel.
4. Frequency of work zone speed limit signs should be:
   40 mph and greater 0.2 to 2 miles
   35 mph and less 0.2 to 1 mile
5. Regulatory speed limit signs shall have black legend and border on a white reflective background (See "Reflective Sheeting" on BC(4)).
6. Fabrication, erection and maintenance of the"ADVANCE SPEED LIMIT"(CW3-5)sign, "WORK ZONE"(G20-5aP) plaque and the "SPEED LIMIT"(R2-1)signs shall not be paid for directly, but shall be considered subsidiary to Item 502.
7. Turning signs from view, laying signs over or down will not be allowed, unless as otherwise noted under "REMOVING OR COVERING" on BC(4).
8. Techniques that may help reduce traffic speeds include but are not limited to:
   A. Law enforcement.
   B. Flagger stationed next to sign.
   C. Portable changeable message sign (PCMS).
   D. Low-power (drone) radar transmitter.
   E. Speed monitor trailers or signs.
9. Speeds shown on details above are for illustration only. Work Zone Speed Limits should only be posted as approved for each project.
10. For more specific guidance concerning the type of work, work zone conditions and factors impacting allowable regulatory construction speed zone reduction see TxDOT form #1204 in the TxDOT e-form system.

Texas Department of Transportation

Traffic Operations Division Standard

BARRICADE AND CONSTRUCTION WORK ZONE SPEED LIMIT

BC(3)-14

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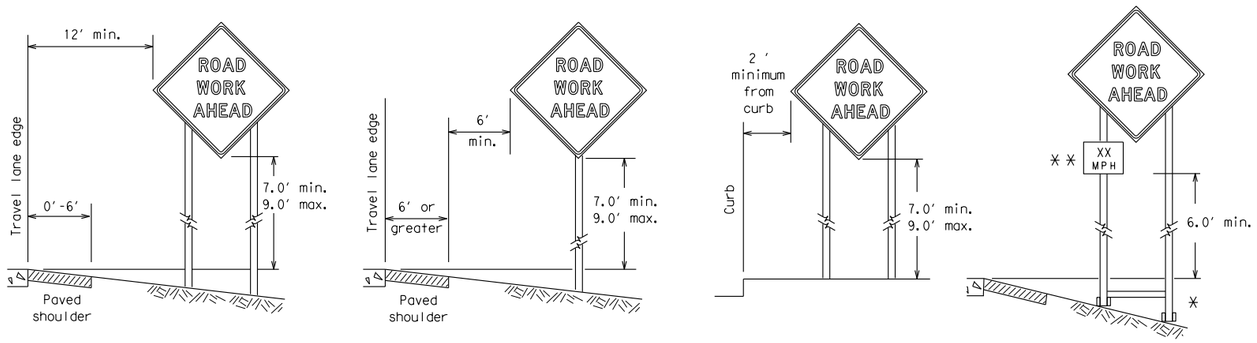
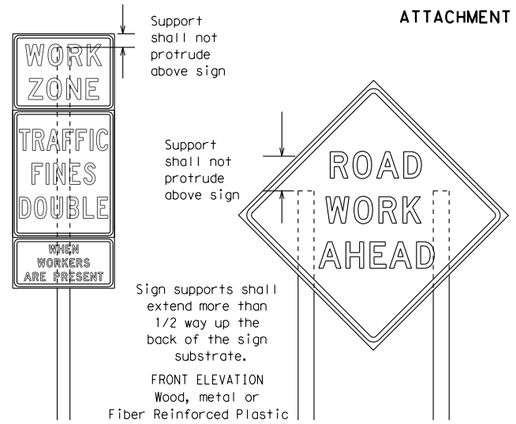
TYPICAL MINIMUM CLEARANCES FOR LONG TERM AND INTERMEDIATE TERM SIGNS



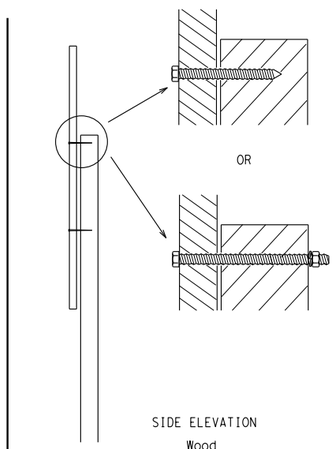
⁎ When placing skid supports on unlevel ground, the leg post lengths must be adjusted so the sign appears straight and plumb. Objects shall NOT be placed under skids as a means of leveling.

⁎⁎ When plaques are placed on dual-leg supports, they should be attached to the upright nearest the travel lane. Supplemental plaques (advisory or distance) should not cover the surface of the parent sign.

ATTACHMENT FOR SIGN SUPPORTS



FRONT ELEVATION
Wood, metal or Fiber Reinforced Plastic



SIDE ELEVATION
Wood

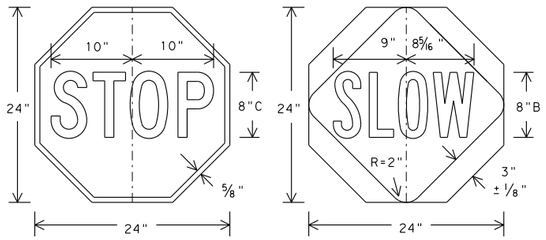
Attachment to wooden supports will be by bolts and nuts or screws. Use TxDOT's or manufacturer's recommended procedures for attaching sign substrates to other types of sign supports

Nails shall NOT be allowed. Each sign shall be attached directly to the sign support. Multiple signs shall not be joined or spliced by any means. Wood supports shall not be extended or repaired by splicing or other means.

Splicing embedded perforated square metal tubing in order to extend post height will only be allowed when the splice is made using four bolts, two above and two below the spice point. Splice must be located entirely behind the sign substrate, not near the base of the support. Splice insert lengths should be at least 5 times nominal post size, centered on the splice and of at least the same gauge material.

STOP/SLOW PADDLES

1. STOP/SLOW paddles are the primary method to control traffic by flaggers. The STOP/SLOW paddle size should be 24" x 24" as detailed below.
2. When used at night, the STOP/SLOW paddle shall be retroreflectorized.
3. STOP/SLOW paddles may be attached to a staff with a minimum length of 6′ to the bottom of the sign.
4. Any lights incorporated into the STOP or SLOW paddle faces shall only be as specifically described in Section 6E.03 Hand Signaling Devices in the TMUTCD.



Background - Red
Legend & Border - White

Background - Orange
Legend & Border - Black

CONTRACTOR REQUIREMENTS FOR MAINTAINING PERMANENT SIGNS WITHIN THE PROJECT LIMITS

1. Permanent signs are used to give notice of traffic laws or regulations, call attention to conditions that are potentially hazardous to traffic operations, show route designations, destinations, directions, distances, services, points of interest, and other geographical, recreational, or cultural information. Drivers proceeding through a work zone need the same, if not better route guidance as normally installed on a roadway without construction.
2. When permanent regulatory or warning signs conflict with work zone conditions, remove or cover the permanent signs until the permanent sign message matches the roadway condition.
3. When existing permanent signs are moved and relocated due to construction purposes, they shall be visible to motorists at all times.
4. If existing signs are to be relocated on their original supports, they shall be installed on crashworthy bases as shown on the SMD Standard sheets. The signs shall meet the required mounting heights shown on the BC Sheets or the SMD Standards. This work should be paid for under the appropriate pay item for relocating existing signs.
5. If permanent signs are to be removed and relocated using temporary supports, the Contractor shall use crashworthy supports as shown on the BC sheets or the CWZTCD. The signs shall meet the required mounting heights shown on the BC Sheets or the SMD Standards during construction. This work should be paid for under the appropriate pay item for relocating existing signs.
6. Any sign or traffic control device that is struck or damaged by the Contractor or his/her construction equipment shall be replaced as soon as possible by the Contractor to ensure proper guidance for the motorists. This will be subsidiary to Item 502.

GENERAL NOTES FOR WORK ZONE SIGNS

1. Contractor shall install and maintain signs in a straight and plumb condition and/or as directed by the Engineer.
2. Wooden sign posts shall be painted white.
3. Barricades shall NOT be used as sign supports.
4. All signs shall be installed in accordance with the plans or as directed by the Engineer. Signs shall be used to regulate, warn, and guide the traveling public safely through the work zone.
5. The Contractor may furnish either the sign design shown in the plans or in the "Standard Highway Sign Designs for Texas" (SHSD). The Engineer/Inspector may require the Contractor to furnish other work zone signs that are shown in the TMUTCD but may have been omitted from the plans. Any variation in the plans shall be documented by written agreement between the Engineer and the Contractor's Responsible Person. All changes must be documented in writing before being implemented. This can include documenting the changes in the Inspector's TxDOT diary and having both the Inspector and Contractor initial and date the agreed upon changes.
6. The Contractor shall furnish sign supports listed in the "Compliant Work Zone Traffic Control Device List" (CWZTCD). The Contractor shall install the sign support in accordance with the manufacturer's recommendations. If there is a question regarding installation procedures, the Contractor shall furnish the Engineer a copy of the manufacturer's installation recommendations so the Engineer can verify the correct procedures are being followed.
7. The Contractor is responsible for installing signs on approved supports and replacing signs with damaged or cracked substrates and/or damaged or marred reflective sheeting as directed by the Engineer/Inspector.
8. Identification markings may be shown only on the back of the sign substrate. The maximum height of letters and/or company logos used for identification shall be 1 inch.
9. The Contractor shall replace damaged wood posts. New or damaged wood sign posts shall not be spliced.

DURATION OF WORK (as defined by the "Texas Manual on Uniform Traffic Control Devices" Part 6)

1. The types of sign supports, sign mounting height, the size of signs, and the type of sign substrates can vary based on the type of work being performed. The Engineer is responsible for selecting the appropriate size sign for the type of work being performed. The Contractor is responsible for ensuring the sign support, sign mounting height and substrate meets manufacturer's recommendations in regard to crashworthiness and duration of work requirements.
   a. Long-term stationary - work that occupies a location more than 3 days.
   b. Intermediate-term stationary - work that occupies a location more than one daylight period up to 3 days, or nighttime work lasting more than one hour.
   c. Short-term stationary - daytime work that occupies a location for more than 1 hour in a single daylight period.
   d. Short, duration - work that occupies a location up to 1 hour.
   e. Mobile - work that moves continuously or intermittently (stopping for up to approximately 15 minutes.)

SIGN MOUNTING HEIGHT

1. The bottom of Long-term/Intermediate-term signs shall be at least 7 feet, but not more than 9 feet, above the paved surface, except as shown for supplemental plaques mounted below other signs.
2. The bottom of Short-term/Short Duration signs shall be a minimum of 1 foot above the pavement surface but no more than 2 feet above the ground.
3. Long-term/Intermediate-term Signs may be used in lieu of Short-term/Short Duration signing.
4. Short-term/Short Duration signs shall be used only during daylight and shall be removed at the end of the workday or raised to appropriate Long-term/Intermediate sign height.
5. Regulatory signs shall be mounted at least 7 feet, but not more than 9 feet, above the paved surface regardless of work duration.

SIZE OF SIGNS

1. The Contractor shall furnish the sign sizes shown on BC (2) unless otherwise shown in the plans or as directed by the Engineer.

SIGN SUBSTRATES

1. The Contractor shall ensure the sign substrate is installed in accordance with the manufacturer's recommendations for the type of sign support that is being used. The CWZTCD lists each substrate that can be used on the different types and models of sign supports.
2. "Mesh" type materials are NOT an approved sign substrate, regardless of the tightness of the weave.
3. All wooden individual sign panels fabricated from 2 or more pieces shall have one or more plywood cleat, 1/2" thick by 6" wide, fastened to the back of the sign and extending fully across the sign. The cleat shall be attached to the back of the sign using wood screws that do not penetrate the face of the sign panel. The screws shall be placed on both sides of the splice and spaced at 6" centers. The Engineer may approve other methods of splicing the sign face.

REFLECTIVE SHEETING

1. All signs shall be retroreflective and constructed of sheeting meeting the color and retro-reflectivity requirements of DMS-8300 for rigid signs or DMS-8310 for roll-up signs. The web address for DMS specifications is shown on BC(1).
2. White sheeting, meeting the requirements of DMS-8300 Type A, shall be used for signs with a white background.
3. Orange sheeting, meeting the requirements of DMS-8300 Type B_{FL} or Type C_{FL}, shall be used for rigid signs with orange backgrounds.

SIGN LETTERS

1. All sign letters and numbers shall be clear, and open rounded type uppercase alphabet letters as approved by the Federal Highway Administration (FHWA) and as published in the "Standard Highway Sign Design for Texas" manual. Signs, letters and numbers shall be of first class workmanship in accordance with Department Standards and Specifications.

REMOVING OR COVERING

1. When sign messages may be confusing or do not apply, the signs shall be removed or completely covered.
2. Long-term stationary or intermediate stationary signs installed on square metal tubing may be turned away from traffic 90 degrees when the sign message is not applicable. This technique may not be used for signs installed in the median of divided highways or near any intersections where the sign may be seen from approaching traffic.
3. Signs installed on wooden skids shall not be turned at 90 degree angles to the roadway. These signs should be removed or completely covered when not required.
4. When signs are covered, the material used shall be opaque, such as heavy mil black plastic, or other materials which will cover the entire sign face and maintain their opaque properties under automobile headlights at night, without damaging the sign sheeting.
5. Burlap shall NOT be used to cover signs.
6. Duct tape or other adhesive material shall NOT be affixed to a sign face.
7. Signs and anchor stubs shall be removed and holes backfilled upon completion of work.

SIGN SUPPORT WEIGHTS

1. Where sign supports require the use of weights to keep from turning over, the use of sandbags with dry, cohesionless sand should be used.
2. The sandbags will be tied shut to keep the sand from spilling and to maintain a constant weight.
3. Rock, concrete, iron, steel or other solid objects shall not be permitted for use as sign support weights.
4. Sandbags should weigh a minimum of 35 lbs and a maximum of 50 lbs.
5. Sandbags shall be made of a durable material that tears upon vehicular impact. Rubber (such as tire inner tubes) shall NOT be used.
6. Rubber ballasts designed for channelizing devices should not be used for ballast on portable sign supports. Sign supports designed and manufactured with rubber bases may be used when shown on the CWZTCD list.
7. Sandbags shall only be placed along or laid over the base supports of the traffic control device and shall not be suspended above ground level or hung with rope, wire, chains or other fasteners. Sandbags shall be placed along the length of the skids to weigh down the sign support.
8. Sandbags shall NOT be placed under the skid and shall not be used to level sign supports placed on slopes.

FLAGS ON SIGNS

1. Flags may be used to draw attention to warning signs. When used the flag shall be 16 inches square or larger and shall be orange or fluorescent red-orange in color. Flags shall not be allowed to cover any portion of the sign face.

Texas Department of Transportation | Traffic Operations Division Standard

BARRICADE AND CONSTRUCTION TEMPORARY SIGN NOTES

BC(4)-14

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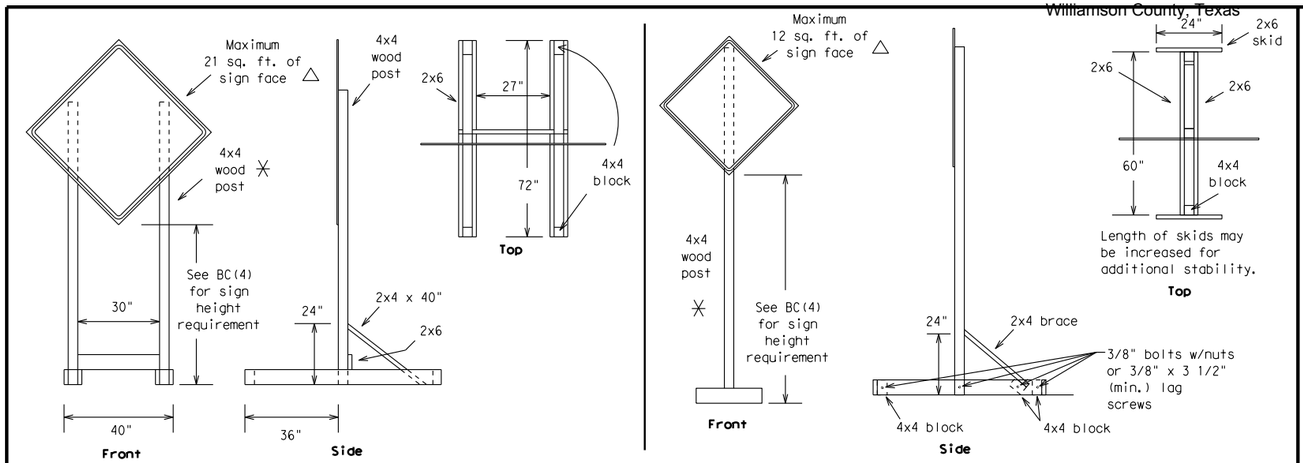
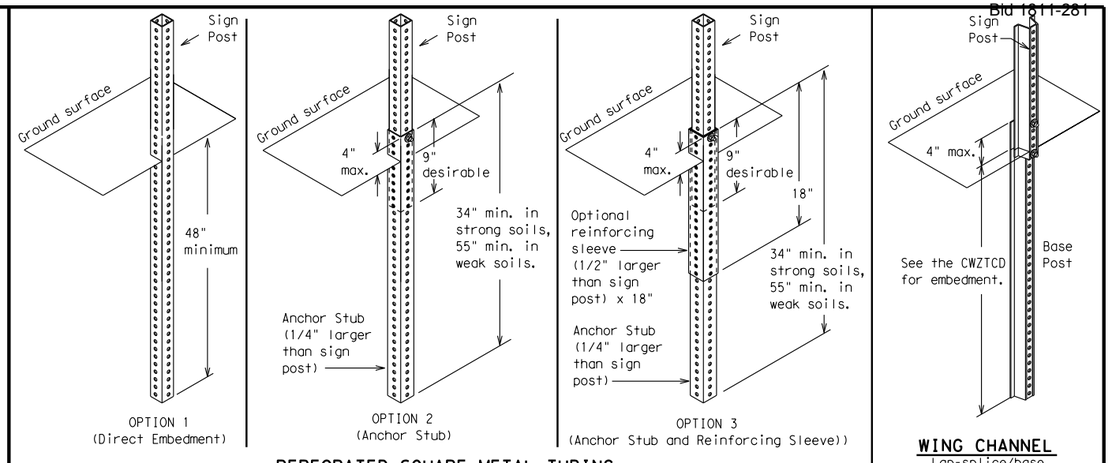


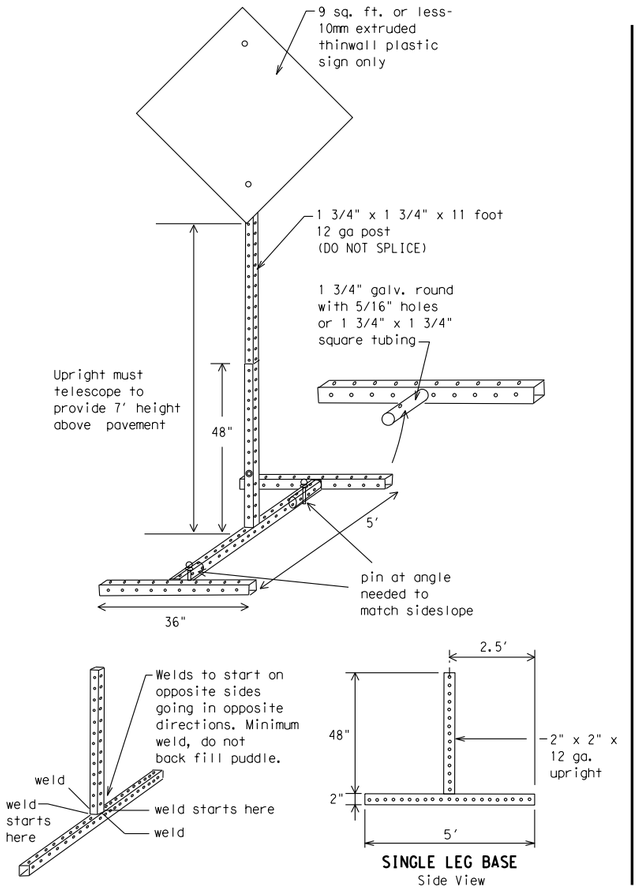
SKID MOUNTED WOOD SIGN SUPPORTS

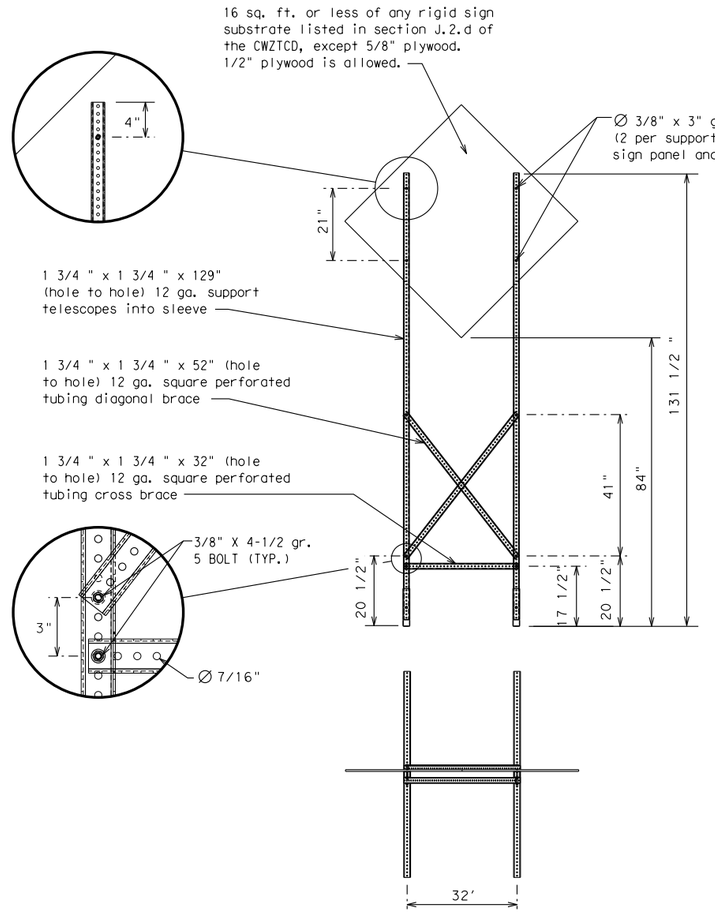
LONG/INTERMEDIATE TERM STATIONARY - PORTABLE SKID MOUNTED SIGN SUPPORTS □

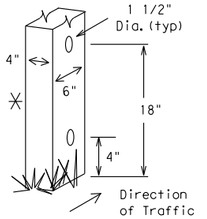


GROUND MOUNTED SIGN SUPPORTS

Refer to the CWZTCD and the manufacturer's installation procedure for each type sign support.
The maximum sign square footage shall adhere to the manufacturer's recommendation.
Two post installations can be used for larger signs.

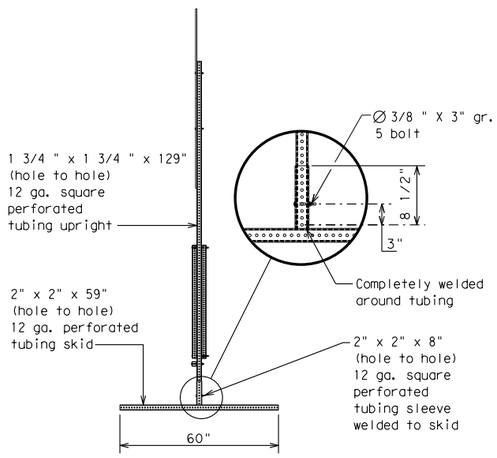






Nominal Post Size	Number of Posts	Maximum Sq. feet of Sign Face	Minimum Soil Embedment	Drilled Hole(s) Required
4 x 4	1	12	36"	NO
4 x 4	2	21	36"	NO
4 x 6	1	21	36"	YES
4 x 6	2	36	36"	YES

WOOD POST SYSTEM FOR GROUND MOUNTED SIGN SUPPORTS



WEDGE ANCHORS

Both steel and plastic Wedge Anchor Systems as shown on the SMD Standard Sheets may be used as temporary sign supports for signs up to 10 square feet of sign face. They may be set in concrete or in sturdy soils if approved by the Engineer. (See web address for "Traffic Engineering Standard Sheets" on BC(1)).

OTHER DESIGNS

MORE DETAILS OF APPROVED LONG/INTERMEDIATE AND SHORT TERM SUPPORTS CAN BE FOUND ON THE CWZTCD LIST. SEE BC(1) FOR WEBSITE LOCATION.

GENERAL NOTES

1. Nails may be used in the assembly of wooden sign supports, but 3/8" bolts with nuts or 3/8" x 3 1/2" lag screws must be used on every joint for final connection.
2. No more than 2 sign posts shall be placed within a 7 ft. circle, except for specific materials noted on the CWZTCD List.
3. When project is completed, all sign supports and foundations shall be removed from the project site. This will be considered subsidiary to Item 502.

□ See BC(4) for definition of "Work Duration."

✳ Wood sign posts MUST be one piece. Splicing will NOT be allowed. Posts shall be painted white.

△ See the CWZTCD for the type of sign substrate that can be used for each approved sign support.

Texas Department of Transportation

Traffic Operations Division Standard

SKID MOUNTED PERFORATED SQUARE STEEL TUBING SIGN SUPPORTS

BARRICADE AND CONSTRUCTION TYPICAL SIGN SUPPORT

BC(5)-14

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WHEN NOT IN USE, REMOVE THE PCMS FROM THE RIGHT-OF-WAY OR PLACE THE PCMS BEHIND BARRIER OR GUARDRAIL WITH SIGN PANEL TURNED PARALLEL TO TRAFFIC

PORTABLE CHANGEABLE MESSAGE SIGNS

1. The Engineer/Inspector shall approve all messages used on portable changeable message signs (PCMS).
2. Messages on PCMS should contain no more than 8 words (about four to eight characters per word), not including simple words such as "TO," "FOR," "AT," etc.
3. Messages should consist of a single phase, or two phases that alternate. Three-phase messages are not allowed. Each phase of the message should convey a single thought, and must be understood by itself.
4. Use the word "EXIT" to refer to an exit ramp on a freeway; i.e., "EXIT CLOSED." Do not use the term "RAMP."
5. Always use the route or interstate designation (IH, US, SH, FM) along with the number when referring to a roadway.
6. When in use the bottom of a stationary PCMS message panel should be a minimum 7 feet above the roadway, where possible.
7. The message term "WEEKEND" should be used only if the work is to start on Saturday morning and end by Sunday evening at midnight. Actual days and hours of work should be displayed on the PCMS if work is to begin on Friday evening and/or continue into Monday morning.
8. The Engineer/Inspector may select one of two options which are available for displaying a two-phase message on a PCMS. Each phase may be displayed for either four seconds each or for three seconds each.
9. Do not "flash" messages or words included in a message. The message should be steady burn or continuous while displayed.
10. Do not present redundant information on a two-phase message; i.e., keeping two lines of the message the same and changing the third line.
11. Do not use the word "Danger" in message.
12. Do not display the message "LANES SHIFT LEFT" or "LANES SHIFT RIGHT" on a PCMS. Drivers do not understand the message.
13. Do not display messages that scroll horizontally or vertically across the face of the sign.
14. The following table lists abbreviated words and two-word phrases that are acceptable for use on a PCMS. Both words in a phrase must be displayed together. Words or phrases not on this list should not be abbreviated, unless shown in the TMUTCD.
15. PCMS character height should be at least 18 inches for trailer mounted units. They should be visible from at least 1/2 (.5) mile and the text should be legible from at least 600 feet at night and 800 feet in daylight. Truck mounted units must have a character height of 10 inches and must be legible from at least 400 feet.
16. Each line of text should be centered on the message board rather than left or right justified.
17. If disabled, the PCMS should default to an illegible display that will not alarm motorists and will only be used to alert workers that the PCMS has malfunctioned. A pattern such as a series of horizontal solid bars is appropriate.

WORD OR PHRASE	ABBREVIATION
Access Road	ACCS RD
Alternate	ALT
Avenue	AVE
Best Route	BEST RTE
Boulevard	BLVD
Bridge	BRDG
Cannot	CANT
Center	CTR
Construction Ahead	CONST AHD
CROSSING	XING
Detour Route	DETOUR RTE
Do Not	DONT
East	E
Eastbound	(route) E
Emergency	EMER
Emergency Vehicle	EMER VEH
Entrance, Enter	ENT
Express Lane	EXP LN
Expressway	EXPWY
XXXX Feet	XXXX FT
Fog Ahead	FOG AHD
Freeway	FRWY, FWY
Freeway Blocked	FWY BLKD
Friday	FRI
Hazardous Driving	HAZ DRIVING
Hazardous Material	HAZMAT
High-Occupancy	HOV
Vehicle Highway	HWY
Hour(s)	HR, HRS
Information	INFO
It Is	ITS
Junction	JCT
Left	LFT
Left Lane	LFT LN
Lane Closed	LN CLOSED
Lower Level	LWR LEVEL
Maintenance	MAINT

WORD OR PHRASE	ABBREVIATION
Major	MAJ
Miles	MI
Miles Per Hour	MPH
Minor	MNR
Monday	MON
Normal	NORM
North	N
Northbound	(route) N
Parking	PKING
Road	RD
Right Lane	RT LN
Saturday	SAT
Service Road	SERV RD
Shoulder	SHLDR
Slippery	SLIP
South	S
Southbound	(route) S
Speed	SPD
Street	ST
Sunday	SUN
Telephone	PHONE
Temporary	TEMP
Thursday	THURS
To Downtown	TO DWNTN
Traffic	TRAF
Travelers	TRVLRS
Tuesday	TUES
Time Minutes	TIME MIN
Upper Level	UPR LEVEL
Vehicles (s)	VEH, VEHS
Warning	WARN
Wednesday	WED
Weight Limit	WT LIMIT
West	W
Westbound	(route) W
Wet Pavement	WET PVMT
Will Not	WONT

Roadway designation # IH-number, US-number, SH-number, FM-number

RECOMMENDED PHASES AND FORMATS FOR PCMS MESSAGES DURING ROADWORK ACTIVITIES

(The Engineer may approve other messages not specifically covered here.)

Phase 1: Condition Lists

Road/Lane/Ramp Closure List

- FREEWAY CLOSED X MILE
- FRONTAGE ROAD CLOSED
- ROAD CLOSED AT SH XXX
- SHOULDER CLOSED XXX FT
- ROAD CLSD AT FM XXXX
- RIGHT LN CLOSED XXX FT
- RIGHT X LANES CLOSED
- RIGHT X LANES OPEN
- CENTER LANE CLOSED
- DAYTIME LANE CLOSURES
- NIGHT LANE CLOSURES
- I-XX SOUTH EXIT CLOSED
- VARIOUS LANES CLOSED
- EXIT XXX CLOSED X MILE
- EXIT CLOSED
- RIGHT LN TO BE CLOSED
- MALL DRIVEWAY CLOSED
- X LANES CLOSED TUE - FRI
- XXXXXXXX BLVD CLOSED

Other Condition List

- ROADWORK XXX FT
- ROAD REPAIRS XXXX FT
- FLAGGER XXXX FT
- LANE NARROWS XXXX FT
- RIGHT LN NARROWS XXXX FT
- TWO-WAY TRAFFIC XX MILE
- MERGING TRAFFIC XXXX FT
- CONST TRAFFIC XXX FT
- LOOSE GRAVEL XXXX FT
- UNEVEN LANES XXXX FT
- DETOUR X MILE
- ROUGH ROAD XXXX FT
- ROADWORK PAST SH XXXX
- ROADWORK NEXT FRI-SUN
- BUMP XXXX FT
- US XXX EXIT X MILES
- TRAFFIC SIGNAL XXXX FT
- LANES SHIFT *

* LANES SHIFT in Phase 1 must be used with STAY IN LANE in Phase 2.

Phase 2: Possible Component Lists

Action to Take/Effect on Travel List

- MERGE RIGHT
- FORM X LINES RIGHT
- DETOUR NEXT X EXITS
- USE XXXXX RD EXIT
- USE EXIT XXX
- USE EXIT I-XX NORTH
- STAY ON US XXX SOUTH
- USE I-XX E TO I-XX N
- TRUCKS USE US XXX N
- WATCH FOR TRUCKS
- WATCH FOR TRUCKS
- EXPECT DELAYS
- EXPECT DELAYS
- PREPARE TO STOP
- REDUCE SPEED XXX FT
- END SHOULDER USE
- USE OTHER ROUTES
- WATCH FOR WORKERS
- STAY IN LANE *

Location List

- AT FM XXXX
- BEFORE RAILROAD CROSSING
- NEXT X MILES
- PAST US XXX EXIT
- XXXXXXX TO XXXXXXX
- US XXX TO FM XXXX

Warning List

- SPEED LIMIT XX MPH
- MAXIMUM SPEED XX MPH
- MINIMUM SPEED XX MPH
- ADVISORY SPEED XX MPH
- RIGHT LANE EXIT
- USE CAUTION
- DRIVE SAFELY
- DRIVE WITH CARE

** Advance Notice List

- TUE-FRI XX AM- X PM
- APR XX-XX X PM-X AM
- BEGINS MONDAY
- BEGINS MAY XX
- MAY X-X XX PM - XX AM
- NEXT FRI-SUN
- XX AM TO XX PM
- NEXT TUE AUG XX
- TONIGHT XX PM- XX AM

* LANES SHIFT in Phase 1 must be used with STAY IN LANE in Phase 2.

** See Application Guidelines Note 6.

APPLICATION GUIDELINES

1. Only 1 or 2 phases are to be used on a PCMS.
2. The 1st phase (or both) should be selected from the "Road/Lane/Ramp Closure List" and the "Other Condition List".
3. A 2nd phase can be selected from the "Action to Take/Effect on Travel, Location, General Warning, or Advance Notice Phase Lists".
4. A Location Phase is necessary only if a distance or location is not included in the first phase selected.
5. If two PCMS are used in sequence, they must be separated by a minimum of 1000 ft. Each PCMS shall be limited to two phases, and should be understandable by themselves.
6. For advance notice, when the current date is within seven days of the actual work date, calendar days should be replaced with days of the week. Advance notification should typically be for no more than one week prior to the work.

WORDING ALTERNATIVES

1. The words RIGHT, LEFT and ALL can be interchanged as appropriate.
2. Roadway designations IH, US, SH, FM and LP can be interchanged as appropriate.
3. EAST, WEST, NORTH and SOUTH (or abbreviations E, W, N and S) can be interchanged as appropriate.
4. Highway names and numbers replaced as appropriate.
5. ROAD, HIGHWAY and FREEWAY can be interchanged as needed.
6. AHEAD may be used instead of distances if necessary.
7. FT and MI, MILE and MILES interchanged as appropriate.
8. AT, BEFORE and PAST interchanged as needed.
9. Distances or AHEAD can be eliminated from the message if a location phase is used.

PCMS SIGNS WITHIN THE R.O.W. SHALL BE BEHIND GUARDRAIL OR CONCRETE BARRIER OR SHALL HAVE A MINIMUM OF FOUR (4) PLASTIC DRUMS PLACED PERPENDICULAR TO TRAFFIC ON THE UPSTREAM SIDE OF THE PCMS, WHEN EXPOSED TO ONE DIRECTION OF TRAFFIC. WHEN EXPOSED TO TWO WAY TRAFFIC, THE FOUR DRUMS SHOULD BE PLACED WITH ONE DRUM AT EACH OF THE FOUR CORNERS OF THE UNIT.

FULL MATRIX PCMS SIGNS

1. When Full Matrix PCMS signs are used, the character height and legibility/visibility requirements shall be maintained as listed in Note 15 under "PORTABLE CHANGEABLE MESSAGE SIGNS" above.
2. When symbol signs, such as the "Flagger Symbol"(CW20-7) are represented graphically on the Full Matrix PCMS sign and, with the approval of the Engineer, it shall maintain the legibility/visibility requirement listed above.
3. When symbol signs are represented graphically on the Full Matrix PCMS, they shall only supplement the use of the static sign represented, and shall not substitute for, or replace that sign.
4. A full matrix PCMS may be used to simulate a flashing arrow board provided it meets the visibility, flash rate and dimming requirements on BC(7), for the same size arrow.

Texas Department of Transportation

Traffic Operations Division Standard

BARRICADE AND CONSTRUCTION PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)

BC(6)-14

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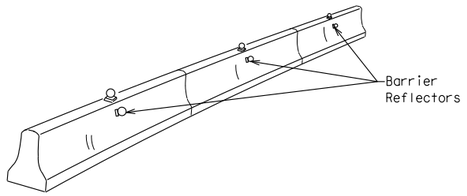
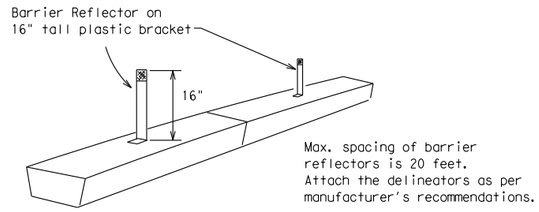
1. Barrier Reflectors shall be pre-qualified, and conform to the color and reflectivity requirements of DMS-8600. A list of prequalified Barrier Reflectors can be found at the Material Producer List web address shown on BC(1).
2. Color of Barrier Reflectors shall be as specified in the TMUTCD. The cost of the reflectors shall be considered subsidiary to Item 512.

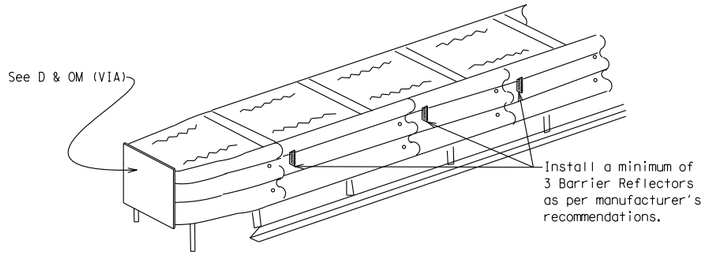


CONCRETE TRAFFIC BARRIER (CTB)

3. Where traffic is on one side of the CTB, two (2) Barrier Reflectors shall be mounted in approximately the midsection of each section of CTB. An alternate mounting location is uniformly spaced at one end of each CTB. This will allow for attachment of a barrier grapple without damaging the reflector. The Barrier Reflector mounted on the side of the CTB shall be located directly below the reflector mounted on top of the barrier, as shown in the detail above.
4. Where CTB separates two-way traffic, three barrier reflectors shall be mounted on each section of CTB. The reflector unit on top shall have two yellow reflective faces (Bi-Directional)while the reflectors on each side of the barrier shall have one yellow reflective face, as shown in the detail above.
5. When CTB separates traffic traveling in the same direction, no barrier reflectors will be required on top of the CTB.
6. Barrier Reflector units shall be yellow or white in color to match the edgeline being supplemented.
7. Maximum spacing of Barrier Reflectors is forty (40) feet.
8. Pavement markers or temporary flexible-reflective roadway marker tabs shall NOT be used as CTB delineation.
9. Attachment of Barrier Reflectors to CTB shall be per manufacturer's recommendations.
10. Missing or damaged Barrier Reflectors shall be replaced as directed by the Engineer.
11. Single slope barriers shall be delineated as shown on the above detail.



LOW PROFILE CONCRETE BARRIER (LPCB)

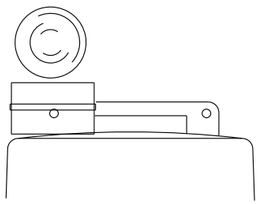


DELINEATION OF END TREATMENTS

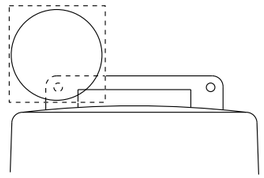
END TREATMENTS FOR CTB'S USED IN WORK ZONES

End treatments used on CTB's in work zones shall meet crashworthy standards as defined in the National Cooperative Highway Research Report 350. Refer to the CWZTCD List for approved end treatments and manufacturers.

BARRIER REFLECTORS FOR CONCRETE TRAFFIC BARRIER AND ATTENUATORS



Type C Warning Light or approved substitute mounted on a drum adjacent to the travel way.



Warning reflector may be round or square.Must have a yellow reflective surface area of at least 30 square inches

WARNING LIGHTS

1. Warning lights shall meet the requirements of the TMUTCD.
2. Warning lights shall NOT be installed on barricades.
3. Type A-Low Intensity Flashing Warning Lights are commonly used with drums. They are intended to warn of or mark a potentially hazardous area. Their use shall be as indicated on this sheet and/or other sheets of the plans by the designation "FL". The Type A Warning Lights shall not be used with signs manufactured with Type B_{FL} or C_{FL} Sheeting meeting the requirements of Departmental Material Specification DMS-8300.
4. Type-C and Type D 360 degree Steady Burn Lights are intended to be used in a series for delineation to supplement other traffic control devices. Their use shall be as indicated on this sheet and/or other sheets of the plans by the designation "SB".
5. The Engineer/Inspector or the plans shall specify the location and type of warning lights to be installed on the traffic control devices.
6. When required by the Engineer, the Contractor shall furnish a copy of the warning lights certification. The warning light manufacturer will certify the warning lights meet the requirements of the latest ITE Purchase Specifications for Flashing and Steady-Burn Warning Lights.
7. When used to delineate curves, Type-C and Type D Steady Burn Lights should only be placed on the outside of the curve, not the inside.
8. The location of warning lights and warning reflectors on drums shall be as shown elsewhere in the plans.

WARNING LIGHTS MOUNTED ON PLASTIC DRUMS

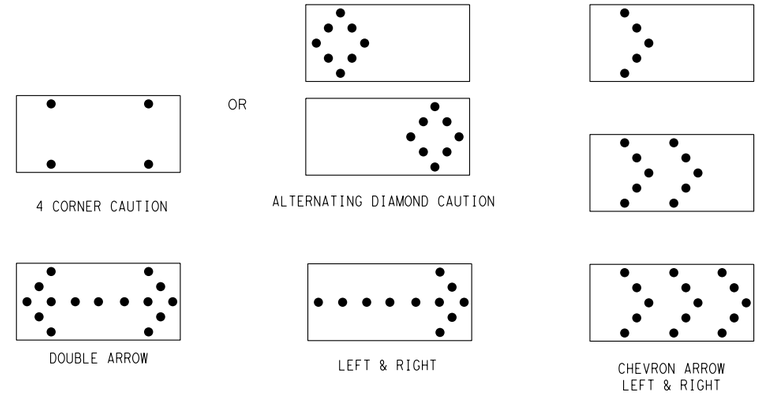
1. Type A flashing warning lights are intended to warn drivers that they are approaching or are in a potentially hazardous area.
2. Type A random flashing warning lights are not intended for delineation and shall not be used in a series.
3. A series of sequential flashing warning lights placed on channelizing devices to form a merging taper may be used for delineation. If used, the successive flashing of the sequential warning lights should occur from the beginning of the taper to the end of the merging taper in order to identify the desired vehicle path. The rate of flashing for each light shall be 65 flashes per minute, plus or minus 10 flashes.
4. Type C and D steady-burn warning lights are intended to be used in a series to delineate the edge of the travel lane on detours, on lane changes, on lane closures, and on other similar conditions.
5. Type A, Type C and Type D warning lights shall be installed at locations as detailed on other sheets in the plans.
6. Warning lights shall not be installed on a drum that has a sign, chevron or vertical panel.
7. The maximum spacing for warning lights on drums should be identical to the channelizing device spacing.

WARNING REFLECTORS MOUNTED ON PLASTIC DRUMS AS A SUBSTITUTE FOR TYPE C (STEADY BURN) WARNING LIGHTS

1. A warning reflector or approved substitute may be mounted on a plastic drum as a substitute for a Type C, steady burn warning light at the discretion of the Contractor unless otherwise noted in the plans.
2. The warning reflector shall be yellow in color and shall be manufactured using a sign substrate approved for use with plastic drums listed on the CWZTCD.
3. The warning reflector shall have a minimum retroreflective surface area (one-side) of 30 square inches.
4. Round reflectors shall be fully reflectorized, including the area where attached to the drum.
5. Square substrates must have a minimum of 30 square inches of reflectorized sheeting. They do not have to be reflectorized where it attaches to the drum.
6. The side of the warning reflector facing approaching traffic shall have sheeting meeting the color and retroreflectivity requirements for DMS 8300-Type B or Type C.
7. When used near two-way traffic, both sides of the warning reflector shall be reflectorized.
8. The warning reflector should be mounted on the side of the handle nearest approaching traffic.
9. The maximum spacing for warning reflectors should be identical to the channelizing device spacing requirements.

Arrow Boards may be located behind channelizing devices in place for a shoulder taper or merging taper, otherwise they shall be delineated with four (4) channelizing devices placed perpendicular to traffic on the upstream side of traffic.

1. The Flashing Arrow Board should be used for all lane closures on multi-lane roadways, or slow moving maintenance or construction activities on the travel lanes.
2. Flashing Arrow Boards should not be used on two-lane, two-way roadways, detours, diversions or work on shoulders unless the "CAUTION" display (see detail below) is used.
3. The Engineer/Inspector shall choose all appropriate signs, barricades and/or other traffic control devices that should be used in conjunction with the Flashing Arrow Board.
4. The Flashing Arrow Board should be able to display the following symbols:



5. The "CAUTION" display consists of four corner lamps flashing simultaneously, or the Alternating Diamond Caution mode as shown.
6. The straight line caution display is NOT ALLOWED.
7. The Flashing Arrow Board shall be capable of minimum 50 percent dimming from rated lamp voltage. The flashing rate of the lamps shall not be less than 25 nor more than 40 flashes per minute.
8. Minimum lamp "on time" shall be approximately 50 percent for the flashing arrow and equal intervals of 25 percent for each sequential phase of the flashing chevron.
9. The sequential arrow display is NOT ALLOWED.
10. The flashing arrow display is the TxDOT standard; however, the sequential Chevron display may be used during daylight operations.
11. The Flashing Arrow Board shall be mounted on a vehicle, trailer or other suitable support.
12. A Flashing Arrow Board SHALL NOT BE USED to laterally shift traffic.
13. A full matrix PCMS may be used to simulate a Flashing Arrow Board provided it meets visibility, flash rate and dimming requirements on this sheet for the same size arrow.
14. Minimum mounting height of trailer mounted Arrow Boards should be 7 feet from roadway to bottom of panel.

REQUIREMENTS			
TYPE	MINIMUM SIZE	MINIMUM NUMBER OF PANEL LAMPS	MINIMUM VISIBILITY DISTANCE
B	30 x 60	13	3/4 mile
C	48 x 96	15	1 mile

ATTENTION
Flashing Arrow Boards shall be equipped with automatic dimming devices.

WHEN NOT IN USE, REMOVE THE ARROW BOARD FROM THE RIGHT-OF-WAY OR PLACE THE ARROW BOARD BEHIND CONCRETE TRAFFIC BARRIER OR GUARDRAIL.

FLASHING ARROW BOARDS

TRUCK-MOUNTED ATTENUATORS

1. Truck-mounted attenuators (TMA) used on TxDOT facilities must meet the requirements outlined in the National Cooperative Highway Research Report No. 350 (NCHRP 350) or the Manual for Assessing Safety Hardware (MASH).
2. Refer to the CWZTCD for the requirements of Level 2 or Level 3 TMAs.
3. Refer to the CWZTCD for a list of approved TMAs.
4. TMAs are required on freeways unless otherwise noted in the plans.
5. A TMA should be used anytime that it can be positioned 30 to 100 feet in advance of the area of crew exposure without adversely affecting the work performance.
6. The only reason a TMA should not be required is when a work area is spread down the roadway and the work crew is an extended distance from the TMA.

Texas Department of Transportation

Traffic Operations Division Standard

BARRICADE AND CONSTRUCTION ARROW PANEL, REFLECTORS, WARNING LIGHTS & ATTENUATOR

BC(7)-14

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GENERAL NOTES

1. For long term stationary work zones on freeways, drums shall be used as the primary channelizing device.
2. For intermediate term stationary work zones on freeways, drums should be used as the primary channelizing device but may be replaced in tangent sections by vertical panels, or 42" two-piece cones. In tangent sections one-piece cones may be used with the approval of the Engineer but only if personnel are present on the project at all times to maintain the cones in proper position and location.
3. For short term stationary work zones on freeways, drums are the preferred channelizing device but may be replaced in tapers, transitions and tangent sections by vertical panels, two-piece cones or one-piece cones as approved by the Engineer.
4. Drums and all related items shall comply with the requirements of the current version of the "Texas Manual on Uniform Traffic Control Devices" (TMUTCD) and the "Compliant Work Zone Traffic Control Devices List" (CWZTCD).
5. Drums, bases, and related materials shall exhibit good workmanship and shall be free from objectionable marks or defects that would adversely affect their appearance or serviceability.
6. The Contractor shall have a maximum of 24 hours to replace any plastic drums identified for replacement by the Engineer/Inspector. The replacement device must be an approved device.

GENERAL DESIGN REQUIREMENTS

Pre-qualified plastic drums shall meet the following requirements:

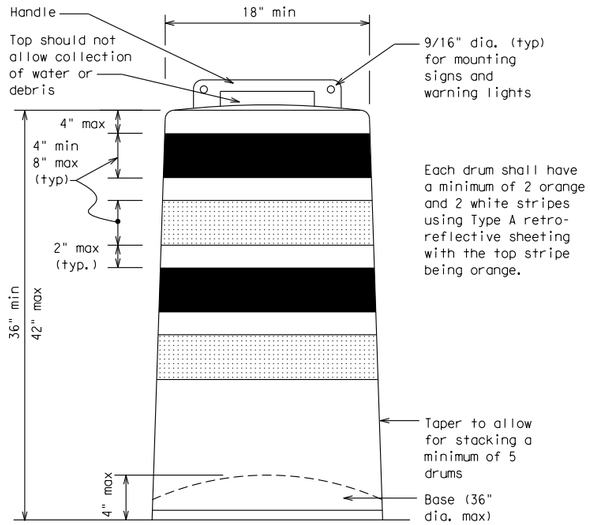
1. Plastic drums shall be a two-piece design; the "body" of the drum shall be the top portion and the "base" shall be the bottom.
2. The body and base shall lock together in such a manner that the body separates from the base when impacted by a vehicle traveling at a speed of 20 MPH or greater but prevents accidental separation due to normal handling and/or air turbulence created by passing vehicles.
3. Plastic drums shall be constructed of lightweight flexible, and deformable materials. The Contractor shall NOT use metal drums or single piece plastic drums as channelization devices or sign supports.
4. Drums shall present a profile that is a minimum of 18 inches in width at the 36 inch height when viewed from any direction. The height of drum unit (body installed on base) shall be a minimum of 36 inches and a maximum of 42 inches.
5. The top of the drum shall have a built-in handle for easy pickup and shall be designed to drain water and not collect debris. The handle shall have a minimum of two widely spaced 9/16 inch diameter holes to allow attachment of a warning light, warning reflector unit or approved compliant sign.
6. The exterior of the drum body shall have a minimum of four alternating orange and white retroreflective circumferential stripes not less than 4 inches nor greater than 8 inches in width. Any non-reflectorized space between any two adjacent stripes shall not exceed 2 inches in width.
7. Bases shall have a maximum width of 36 inches, a maximum height of 4 inches, and a minimum of two footholds of sufficient size to allow base to be held down while separating the drum body from the base.
8. Plastic drums shall be constructed of ultra-violet stabilized, orange, high-density polyethylene (HDPE) or other approved material.
9. Drum body shall have a maximum unballasted weight of 11 lbs.
10. Drum and base shall be marked with manufacturer's name and model number.

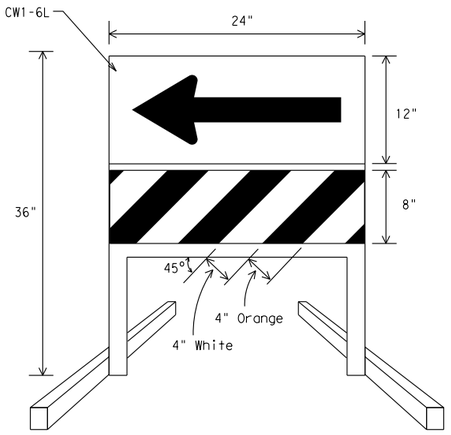
RETROREFLECTIVE SHEETING

1. The stripes used on drums shall be constructed of sheeting meeting the color and retroreflectivity requirements of Departmental Materials Specification DMS-8300, "Sign Face Materials." Type A reflective sheeting shall be supplied unless otherwise specified in the plans.
2. The sheeting shall be suitable for use on and shall adhere to the drum surface such that, upon vehicular impact, the sheeting shall remain adhered in-place and exhibit no delaminating, cracking, or loss of retroreflectivity other than that loss due to abrasion of the sheeting surface.

BALLAST

1. Unballasted bases shall be large enough to hold up to 50 lbs. of sand. This base, when filled with the ballast material, should weigh between 35 lbs (minimum) and 50 lbs (maximum). The ballast may be sand in one to three sandbags separate from the base, sand in a sand-filled plastic base, or other ballasting devices as approved by the Engineer. Stacking of sandbags will be allowed, however height of sandbags above pavement surface may not exceed 12 inches.
2. Bases with built-in ballast shall weigh between 40 lbs. and 50 lbs. Built-in ballast can be constructed of an integral crumb rubber base or a solid rubber base.
3. Recycled truck tire sidewalls may be used for ballast on drums approved for this type of ballast on the CWZTCD list.
4. The ballast shall not be heavy objects, water, or any material that would become hazardous to motorists, pedestrians, or workers when the drum is struck by a vehicle.
5. When used in regions susceptible to freezing, drums shall have drainage holes in the bottoms so that water will not collect and freeze becoming a hazard when struck by a vehicle.
6. Ballast shall not be placed on top of drums.
7. Adhesives may be used to secure base of drums to pavement.





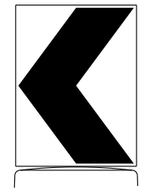
DIRECTION INDICATOR BARRICADE

1. The Direction Indicator Barricade may be used in tapers, transitions, and other areas where specific directional guidance to drivers is necessary.
2. If used, the Direction Indicator Barricade should be used in series to direct the driver through the transition and into the intended travel lane.
3. The Direction Indicator Barricade shall consist of One-Direction Large Arrow (CW1-6) sign in the size shown with a black arrow on a background of Type B_{FL} or Type C_{FL} Orange retroreflective sheeting above a rail with Type A retroreflective sheeting in alternating 4" white and orange stripes sloping downward at an angle of 45 degrees in the direction road users are to pass. Sheeting types shall be as per DMS 8300.
4. Double arrows on the Direction Indicator Barricade will not be allowed.
5. Approved manufacturers are shown on the CWZTCD List. Ballast shall be as approved by the manufacturers instructions.

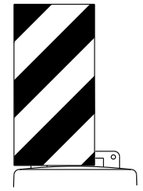
This detail is not intended for fabrication. See note 3 and the CWZTCD list for providers of approved Detectable Pedestrian Barricades

DETECTABLE PEDESTRIAN BARRICADES

1. When existing pedestrian facilities are disrupted, closed, or relocated in a TTC zone, the temporary facilities shall be detectable and include accessibility features consistent with the features present in the existing pedestrian facility.
2. Where pedestrians with visual disabilities normally use the closed sidewalk, a device that is detectable by a person with a visual disability traveling with the aid of a long cane shall be placed across the full width of the closed sidewalk.
3. Detectable pedestrian barricades similar to the one pictured above, longitudinal channelizing devices, some concrete barriers, and wood or chain link fencing with a continuous detectable edging can satisfactorily delineate a pedestrian path.
4. Tape, rope, or plastic chain strung between devices are not detectable, do not comply with the design standards in the "Americans with Disabilities Act Accessibility Guidelines for Buildings and Facilities (ADAAG)" and should not be used as a control for pedestrian movements.
5. Warning lights shall not be attached to detectable pedestrian barricades.
6. Detectable pedestrian barricades may use 8" nominal barricade rails as shown on BC(10) provided that the top rail provides a smooth continuous rail suitable for hand trailing with no splinters, burrs, or sharp edges.



18" x 24" Sign
(Maximum Sign Dimension)
Chevron CW1-8, Opposing Traffic Lane Divider, Driveway sign D70a, Keep Right R4 series or other signs as approved by Engineer



12" x 24"
Vertical Panel
mount with diagonals sloping down towards travel way

Plywood, Aluminum or Metal sign substrates shall NOT be used on plastic drums

SIGNS, CHEVRONS, AND VERTICAL PANELS MOUNTED ON PLASTIC DRUMS

1. Signs used on plastic drums shall be manufactured using substrates listed on the CWZTCD.
2. Chevrons and other work zone signs with an orange background shall be manufactured with Type B_{FL} or Type C_{FL} Orange sheeting meeting the color and retroreflectivity requirements of DMS-8300, "Sign Face Material," unless otherwise specified in the plans.
3. Vertical Panels shall be manufactured with orange and white sheeting meeting the requirements of DMS-8300 Type A Diagonal stripes on Vertical Panels shall slope down toward the intended traveled lane.
4. Other sign messages (text or symbolic) may be used as approved by the Engineer. Sign dimensions shall not exceed 18 inches in width or 24 inches in height, except for the R9 series signs discussed in note 8 below.
5. Signs shall be installed using a 1/2 inch bolt (nominal) and nut, two washers, and one locking washer for each connection.
6. Mounting bolts and nuts shall be fully engaged and adequately torqued. Bolts should not extend more than 1/2 inch beyond nuts.
7. Chevrons may be placed on drums on the outside of curves, on merging tapers or on shifting tapers. When used in these locations they may be placed on every drum or spaced not more than on every third drum. A minimum of three (3) should be used at each location called for in the plans.
8. R9-9, R9-10, R9-11 and R9-11a Sidewalk Closed signs which are 24 inches wide may be mounted on plastic drums, with approval of the Engineer.

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BARRICADE AND CONSTRUCTION CHANNELIZING DEVICES

BC(8)-14

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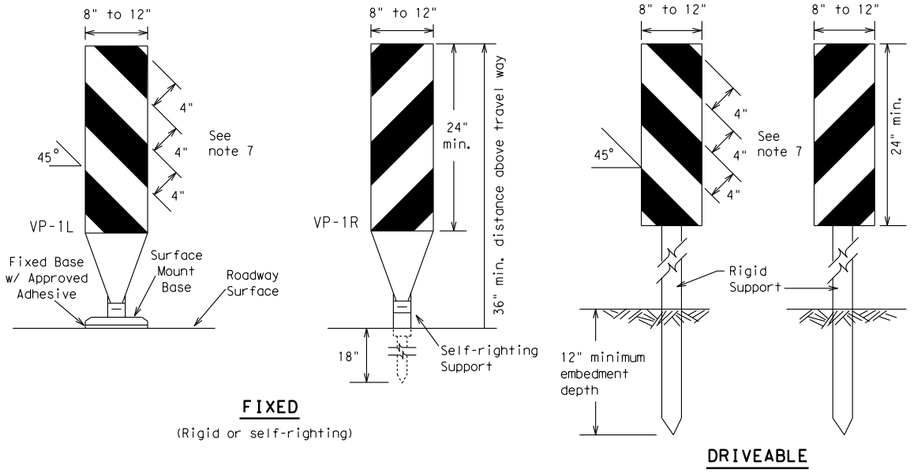
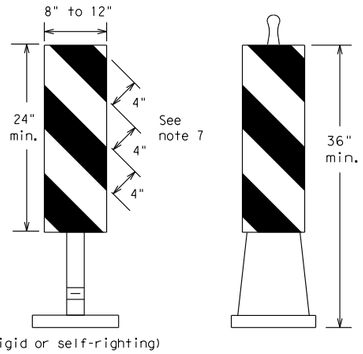


FIXED
(Rigid or self-righting)

DRIVEABLE

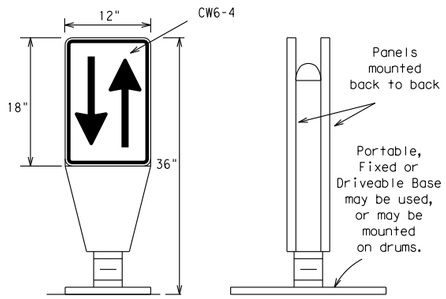


(Rigid or self-righting)

PORTABLE

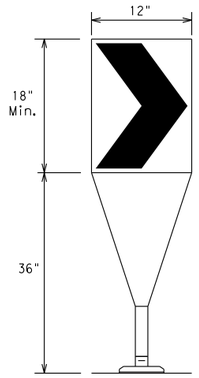
1. Vertical Panels (VP's) are normally used to channelize traffic or divide opposing lanes of traffic.
2. VP's may be used in daytime or nighttime situations. They may be used at the edge of shoulder drop-offs and other areas such as lane transitions where positive daytime and nighttime delineation is required. The Engineer/Inspector shall refer to the Roadway Design Manual Appendix B "Treatment of Pavement Drop-offs in Work Zones" for additional guidelines on the use of VP's for drop-offs.
3. VP's should be mounted back to back if used at the edge of cuts adjacent to two-way two lane roadways. Stripes are to be reflective orange and reflective white and should always slope downward toward the travel lane.
4. VP's used on expressways and freeways or other high speed roadways, may have more than 270 square inches of retroreflective area facing traffic.
5. Self-righting supports are available with portable base. See "Compliant Work Zone Traffic Control Devices List" (CWZTCD).
6. Sheeting for the VP's shall be retroreflective Type A conforming to Departmental Material Specification DMS-8300, unless noted otherwise.
7. Where the height of reflective material on the vertical panel is 36 inches or greater, a panel stripe of 6 inches shall be used.

VERTICAL PANELS (VPs)



1. Opposing Traffic Lane Dividers (OTLD) are delineation devices designed to convert a normal one-way roadway section to two-way operation. OTLD's are used on temporary centerlines. The upward and downward arrows on the sign's face indicate the direction of traffic on either side of the divider. The base is secured to the pavement with an adhesive or rubber weight to minimize movement caused by a vehicle impact or wind gust.
2. The OTLD may be used in combination with 42" cones or VPs.
3. Spacing between the OTLD shall not exceed 500 feet. 42" cones or VPs placed between the OTLD's should not exceed 100 foot spacing.
4. The OTLD shall be orange with a black non-reflective legend. Sheeting for the OTLD shall be retroreflective Type B_{FL} or Type C_{FL} conforming to Departmental Material Specification DMS-8300, unless noted otherwise. The legend shall meet the requirements of DMS-8300.

OPPOSING TRAFFIC LANE DIVIDERS (OTLD)



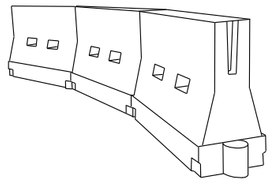
Fixed Base w/ Approved Adhesive (Driveable Base, or Flexible Support can be used)

1. The chevron shall be a vertical rectangle with a minimum size of 12 by 18 inches.
2. Chevrons are intended to give notice of a sharp change of alignment with the direction of travel and provide additional emphasis and guidance for vehicle operators with regard to changes in horizontal alignment of the roadway.
3. Chevrons, when used, shall be erected on the outside of a sharp curve or turn, or on the far side of an intersection. They shall be in line with and at right angles to approaching traffic. Spacing should be such that the motorist always has three in view, until the change in alignment eliminates its need.
4. To be effective, the chevron should be visible for at least 500 feet.
5. Chevrons shall be orange with a black nonreflective legend. Sheeting for the chevron shall be retroreflective Type B_{FL} or Type C_{FL} conforming to Departmental Material Specification DMS-8300, unless noted otherwise. The legend shall meet the requirements of DMS-8300.
6. For Long Term Stationary use on tapers or transitions on freeways and divided highways self-righting chevrons may be used to supplement plastic drums but not to replace plastic drums.

CHEVRONS

GENERAL NOTES

1. Work Zone channelizing devices illustrated on this sheet may be installed in close proximity to traffic and are suitable for use on high or low speed roadways. The Engineer/Inspector shall ensure that spacing and placement is uniform and in accordance with the "Texas Manual on Uniform Traffic Control Devices" (TMUTCD).
2. Channelizing devices shown on this sheet may have a driveable, fixed or portable base. The requirement for self-righting channelizing devices must be specified in the General Notes or other plan sheets.
3. Channelizing devices on self-righting supports should be used in work zone areas where channelizing devices are frequently impacted by errant vehicles or vehicle related wind gusts making alignment of the channelizing devices difficult to maintain. Locations of these devices shall be detailed elsewhere in the plans. These devices shall conform to the TMUTCD and the "Compliant Work Zone Traffic Control Devices List" (CWZTCD).
4. The Contractor shall maintain devices in a clean condition and replace damaged, nonreflective, faded, or broken devices and bases as required by the Engineer/Inspector. The Contractor shall be required to maintain proper device spacing and alignment.
5. Portable bases shall be fabricated from virgin and/or recycled rubber. The portable bases shall weigh a minimum of 30 lbs.
6. Pavement surfaces shall be prepared in a manner that ensures proper bonding between the adhesives, the fixed mount bases and the pavement surface. Adhesives shall be prepared and applied according to the manufacturer's recommendations.
7. The installation and removal of channelizing devices shall not cause detrimental effects to the final pavement surfaces, including pavement surface discoloration or surface integrity. Driveable bases shall not be permitted on final pavement surfaces. The Engineer/Inspector shall approve all application and removal procedures of fixed bases.



LONGITUDINAL CHANNELIZING DEVICES (LCD)

1. LCDs are crashworthy, lightweight, deformable devices that are highly visible, have good target value and can be connected together. They are not designed to contain or redirect a vehicle on impact.
2. LCDs may be used instead of a line of cones or drums.
3. LCDs shall be placed in accordance to application and installation requirements specific to the device, and used only when shown on the CWZTCD list.
4. LCDs should not be used to provide positive protection for obstacles, pedestrians or workers.
5. LCDs shall be supplemented with retroreflective delineation as required for temporary barriers on BC(7) when placed roughly parallel to the travel lanes.
6. LCDs used as barricades placed perpendicular to traffic should have at least one row of reflective sheeting meeting the requirements for barricade rails as shown on BC(10) placed near the top of the LCD along the full length of the device.

WATER BALLASTED SYSTEMS USED AS BARRIERS

1. Water ballasted systems used as barriers shall not be used solely to channelize road users, but also to protect the work space per the appropriate NCHRP 350 crashworthiness requirements based on roadway speed and barrier application.
2. Water ballasted systems used to channelize vehicular traffic shall be supplemented with retroreflective delineation or channelizing devices to improve daytime/nighttime visibility. They may also be supplemented with pavement markings.
3. Water ballasted systems used as barriers shall be placed in accordance to application and installation requirements specific to the device, and used only when shown on the CWZTCD list.
4. Water ballasted systems used as barriers should not be used for a merging taper except in low speed (less than 45 MPH) urban areas. When used on a taper in a low speed urban area, the taper shall be delineated and the taper length should be designed to optimize road user operations considering the available geometric conditions.
5. When water ballasted systems used as barriers have blunt ends exposed to traffic, they should be attenuated as per manufacturer recommendations or flared to a point outside the clear zone.

If used to channelize pedestrians, longitudinal channelizing devices or water ballasted systems must have a continuous detectable bottom for users of long canes and the top of the unit shall not be less than 32 inches in height.

HOLLOW OR WATER BALLASTED SYSTEMS USED AS LONGITUDINAL CHANNELIZING DEVICES OR BARRIERS

Posted Speed *	Formula	Minimum Desirable Taper Lengths ** 10' Offset	11' Offset	12' Offset	Suggested Maximum Spacing of Channelizing Devices On a Taper	On a Tangent
30	$L = \frac{WS^2}{60}$	150'	165'	180'	30'	60'
35		205'	225'	245'	35'	70'
40		265'	295'	320'	40'	80'
45	L = WS	450'	495'	540'	45'	90'
50		500'	550'	600'	50'	100'
55		550'	605'	660'	55'	110'
60		600'	660'	720'	60'	120'
65		650'	715'	780'	65'	130'
70		700'	770'	840'	70'	140'
75		750'	825'	900'	75'	150'
80		800'	880'	960'	80'	160'

** Taper lengths have been rounded off.
L=Length of Taper (FT.) W=Width of Offset (FT.)
S=Posted Speed (MPH)

SUGGESTED MAXIMUM SPACING OF CHANNELIZING DEVICES AND MINIMUM DESIRABLE TAPER LENGTHS

Texas Department of Transportation

Traffic Operations Division Standard

BARRICADE AND CONSTRUCTION CHANNELIZING DEVICES

BC(9)-14

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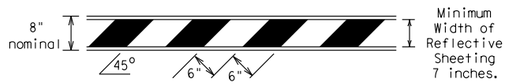
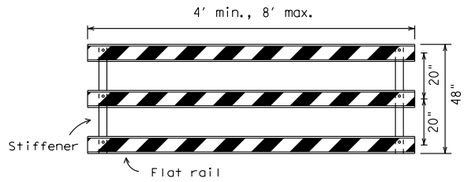
TYPE 3 BARRICADES

1. Refer to the Compliant Work Zone Traffic Control Devices List (CWZTCD) for details of the Type 3 Barricades and a list of all materials used in the construction of Type 3 Barricades.
2. Type 3 Barricades shall be used at each end of construction projects closed to all traffic.
3. Barricades extending across a roadway should have stripes that slope downward in the direction toward which traffic must turn in detouring. When both right and left turns are provided, the chevron striping may slope downward in both directions from the center of the barricade. Where no turns are provided at a closed road striping should slope downward in both directions toward the center of roadway.
4. Striping of rails, for the right side of the roadway, should slope downward to the left. For the left side of the roadway, striping should slope downward to the right.
5. Identification markings may be shown only on the back of the barricade rails. The maximum height of letters and/or company logos used for identification shall be 1".
6. Barricades shall not be placed parallel to traffic unless an adequate clear zone is provided.
7. Warning lights shall NOT be installed on barricades.
8. Where barricades require the use of weights to keep from turning over, the use of sandbags with dry, cohesionless sand is recommended. The sandbags will be tied shut to keep the sand from spilling and to maintain a constant weight. Sand bags shall not be stacked in a manner that covers any portion of a barricade rails reflective sheeting. Rock, concrete, iron, steel or other solid objects will NOT be permitted. Sandbags should weigh a minimum of 35 lbs and a maximum of 50 lbs. Sandbags shall be made of a durable material that tears upon vehicular impact. Rubber (such as tire inner tubes) shall not be used for sandbags. Sandbags shall only be placed along or upon the base supports of the device and shall not be suspended above ground level or hung with rope, wire, chains or other fasteners.
9. Sheeting for barricades shall be retroreflective Type A conforming to Departmental Material Specification DMS-8300 unless otherwise noted.

Barricades shall NOT be used as a sign support.



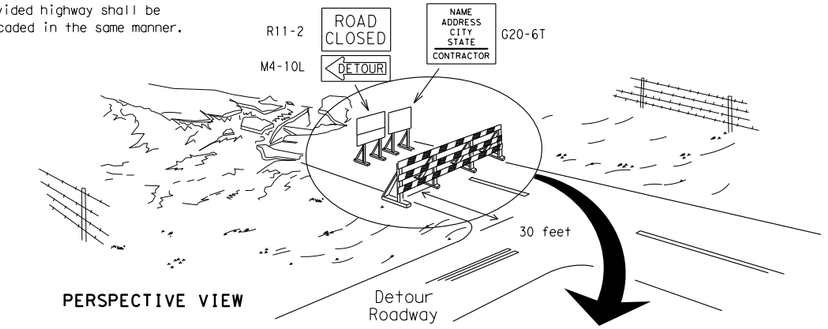
TYPICAL STRIPING DETAIL FOR BARRICADE RAIL



Stiffener may be inside or outside of support, but no more than 2 stiffeners shall be allowed on one barricade.

TYPICAL PANEL DETAIL FOR SKID OR POST TYPE BARRICADES

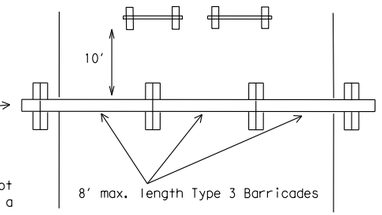
Each roadway of a divided highway shall be barricaded in the same manner.



PERSPECTIVE VIEW

The three rails on Type 3 barricades shall be reflectorized orange and reflective white stripes on one side facing one-way traffic and both sides for two-way traffic.

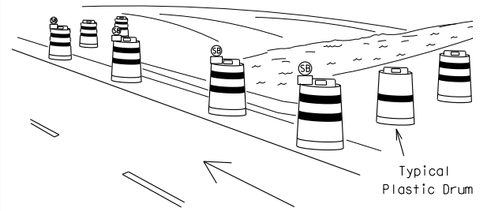
Barricade striping should slant downward in the direction of detour.



PLAN VIEW

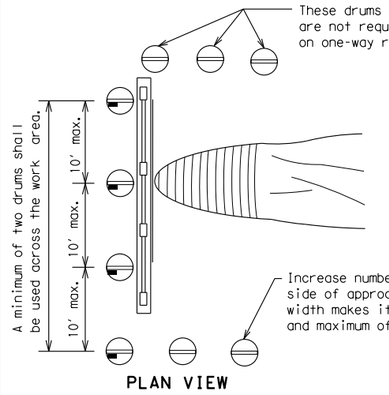
1. Signs should be mounted on independent supports at a 7 foot mounting height in center of roadway. The signs should be a minimum of 10 feet behind Type 3 Barricades.
2. Advance signing shall be as specified elsewhere in the plans.

TYPE 3 BARRICADE (POST AND SKID) TYPICAL APPLICATION



PERSPECTIVE VIEW

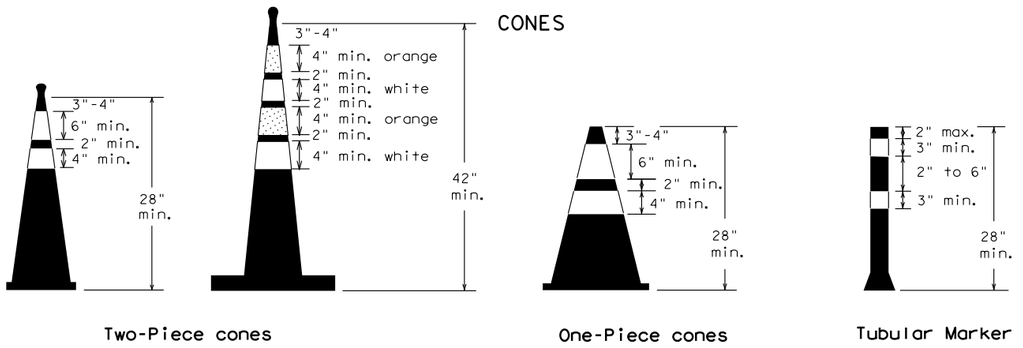
1. Where positive redirectional capability is provided, drums may be omitted.
2. Plastic construction fencing may be used with drums for safety as required in the plans.
3. Vertical Panels on flexible support may be substituted for drums when the shoulder width is less than 4 feet.
4. When the shoulder width is greater than 12 feet, steady-burn lights may be omitted if drums are used.
5. Drums must extend the length of the culvert widening.



PLAN VIEW

LEGEND	
	Plastic drum
	Plastic drum with steady burn light or yellow warning reflector
SB	Steady burn warning light or yellow warning reflector

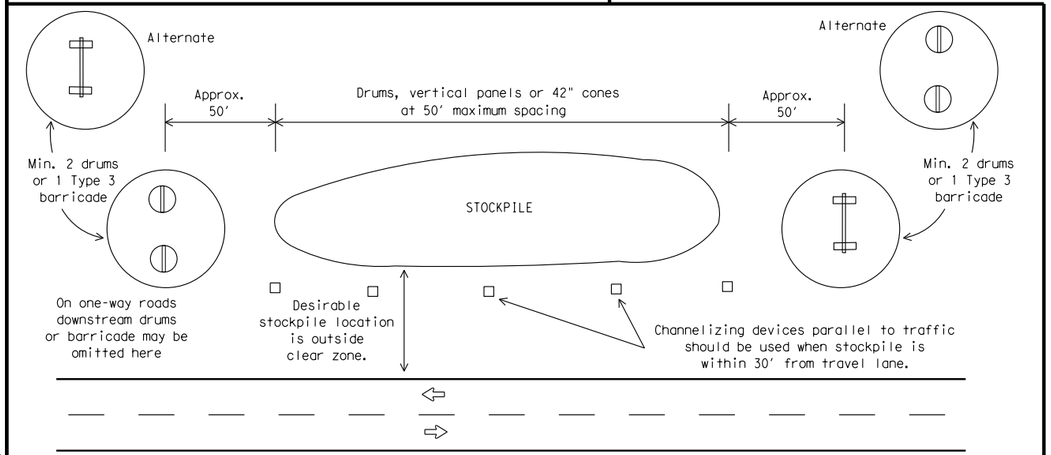
CULVERT WIDENING OR OTHER ISOLATED WORK WITHIN THE PROJECT LIMITS



28" Cones shall have a minimum weight of 9 1/2 lbs.

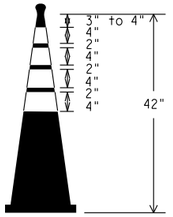
42" 2-piece cones shall have a minimum weight of 30 lbs. including base.

1. Traffic cones and tubular markers shall be predominantly orange, and meet the height and weight requirements shown above.
2. One-piece cones have the body and base of the cone molded in one consolidated unit. Two-piece cones have a cone shaped body and a separate rubber base, or ballast, that is added to keep the device upright and in place.
3. Two-piece cones may have a handle or loop extending up to 8" above the minimum height shown, in order to aid in retrieving the device.
4. Cones or tubular markers used at night shall have white or white and orange reflective bands as shown above. The reflective bands shall have a smooth, sealed outer surface and meet the requirements of Departmental Material Specification DMS-8300 Type A.
5. 28" cones and tubular markers are generally suitable for short duration and short-term stationary work as defined on BC(4). These should not be used for intermediate-term or long-term stationary work unless personnel is on-site to maintain them in their proper upright position.
6. 42" two-piece cones, vertical panels or drums are suitable for all work zone durations.
7. Cones or tubular markers used on each project should be of the same size and shape.



TRAFFIC CONTROL FOR MATERIAL STOCKPILES

THIS DEVICE SHALL NOT BE USED ON PROJECTS LET AFTER MARCH 2014.



EDGELINE CHANNELIZER

1. This device is intended only for use in place of a vertical panel to channelize traffic by indicating the edge of the travel lane. It is not intended to be used in transitions or tapers.
2. This device shall not be used to separate lanes of traffic (opposing or otherwise) or warn of objects.
3. This device is based on a 42 inch, two-piece cone with an alternate striping pattern: four 4 inch retroreflective bands, with an approximate 2 inch gap between bands. The color of the band should correspond to the color of the edgeline (yellow for left edgeline, white for right edgeline) for which the device is substituted or for which it supplements. The reflectorized bands shall be retroreflective Type A conforming to Departmental Material Specification DMS-8300, unless otherwise noted.
4. The base must weigh a minimum of 30 lbs.

Texas Department of Transportation

Traffic Operations Division Standard

BARRICADE AND CONSTRUCTION CHANNELIZING DEVICES

BC(10)-14

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WORK ZONE PAVEMENT MARKINGS

GENERAL

1. The Contractor shall be responsible for maintaining work zone and existing pavement markings, in accordance with the standard specifications and special provisions, on all roadways open to traffic within the CSJ limits unless otherwise stated in the plans.
2. Color, patterns and dimensions shall be in conformance with the "Texas Manual on Uniform Traffic Control Devices" (TMUTCD).
3. Additional supplemental pavement marking details may be found in the plans or specifications.
4. Pavement markings shall be installed in accordance with the TMUTCD and as shown on the plans.
5. When short term markings are required on the plans, short term markings shall conform with the TMUTCD, the plans and details as shown on the Standard Plan Sheet WZ(STPM).
6. When standard pavement markings are not in place and the roadway is opened to traffic, DO NOT PASS signs shall be erected to mark the beginning of the sections where passing is prohibited and PASS WITH CARE signs at the beginning of sections where passing is permitted.
7. All work zone pavement markings shall be installed in accordance with Item 662, "Work Zone Pavement Markings."

RAISED PAVEMENT MARKERS

1. Raised pavement markers are to be placed according to the patterns on BC(12).
2. All raised pavement markers used for work zone markings shall meet the requirements of Item 672, "RAISED PAVEMENT MARKERS" and Departmental Material Specification DMS-4200 or DMS-4300.

PREFABRICATED PAVEMENT MARKINGS

1. Removable prefabricated pavement markings shall meet the requirements of DMS-8241.
2. Non-removable prefabricated pavement markings (foil back) shall meet the requirements of DMS-8240.

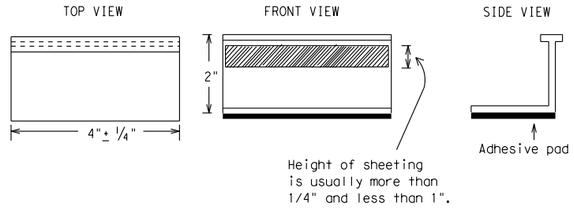
MAINTAINING WORK ZONE PAVEMENT MARKINGS

1. The Contractor will be responsible for maintaining work zone pavement markings within the work limits.
2. Work zone pavement markings shall be inspected in accordance with the frequency and reporting requirements of work zone traffic control device inspections as required by Form 599.
3. The markings should provide a visible reference for a minimum distance of 300 feet during normal daylight hours and 160 feet when illuminated by automobile low-beam headlights at night, unless sight distance is restricted by roadway geometrics.
4. Markings failing to meet this criteria within the first 30 days after placement shall be replaced at the expense of the Contractor as per Specification Item 662.

REMOVAL OF PAVEMENT MARKINGS

1. Pavement markings that are no longer applicable, could create confusion or direct a motorist toward or into the closed portion of the roadway shall be removed or obliterated before the roadway is opened to traffic.
2. The above shall not apply to detours in place for less than three days, where flaggers and/or sufficient channelizing devices are used in lieu of markings to outline the detour route.
3. Pavement markings shall be removed to the fullest extent possible, so as not to leave a discernable marking. This shall be by any method approved by TxDOT Specification Item 677 for "Eliminating Existing Pavement Markings and Markers".
4. The removal of pavement markings may require resurfacing or seal coating portions of the roadway as described in Item 677.
5. Subject to the approval of the Engineer, any method that proves to be successful on a particular type pavement may be used.
6. Blast cleaning may be used but will not be required unless specifically shown in the plans.
7. Over-painting of the markings SHALL NOT BE permitted.
8. Removal of raised pavement markers shall be as directed by the Engineer.
9. Removal of existing pavement markings and markers will be paid for directly in accordance with Item 677, "ELIMINATING EXISTING PAVEMENT MARKINGS AND MARKERS," unless otherwise stated in the plans.
10. Black-out marking tape may be used to cover conflicting existing markings for periods less than two weeks when approved by the Engineer.

Temporary Flexible-Reflective Roadway Marker Tabs



STAPLES OR NAILS SHALL NOT BE USED TO SECURE TEMPORARY FLEXIBLE-REFLECTIVE ROADWAY MARKER TABS TO THE PAVEMENT SURFACE

1. Temporary flexible-reflective roadway marker tabs used as guidemarks shall meet the requirements of DMS-8242.
2. Tabs detailed on this sheet are to be inspected and accepted by the Engineer or designated representative. Sampling and testing is not normally required, however at the option of the Engineer, either "A" or "B" below may be imposed to assure quality before placement on the roadway.
   A. Select five (5) or more tabs at random from each lot or shipment and submit to the Construction Division, Materials and Pavement Section to determine specification compliance.
   B. Select five (5) tabs and perform the following test. Affix five (5) tabs at 24 inch intervals on an asphaltic pavement in a straight line. Using a medium size passenger vehicle or pickup, run over the markers with the front and rear tires at a speed of 35 to 40 miles per hour, four (4) times in each direction. No more than one (1) out of the five (5) reflective surfaces shall be lost or displaced as a result of this test.
3. Small design variances may be noted between tab manufacturers.
4. See Standard Sheet WZ(STPM) for tab placement on new pavements. See Standard Sheet TCP(7-1) for tab placement on seal coat work.

RAISED PAVEMENT MARKERS USED AS GUIDEMARKS

1. Raised pavement markers used as guidemarks shall be from the approved product list, and meet the requirements of DMS-4200.
2. All temporary construction raised pavement markers provided on a project shall be of the same manufacturer.
3. Adhesive for guidemarks shall be bituminous material hot applied or butyl rubber pad for all surfaces, or thermoplastic for concrete surfaces.

Guidemarks shall be designated as:
YELLOW - (two amber reflective surfaces with yellow body).
WHITE - (one silver reflective surface with white body).

DEPARTMENTAL MATERIAL SPECIFICATIONS	
PAVEMENT MARKERS (REFLECTORIZED)	DMS-4200
TRAFFIC BUTTONS	DMS-4300
EPOXY AND ADHESIVES	DMS-6100
BITUMINOUS ADHESIVE FOR PAVEMENT MARKERS	DMS-6130
PERMANENT PREFABRICATED PAVEMENT MARKINGS	DMS-8240
TEMPORARY REMOVABLE, PREFABRICATED PAVEMENT MARKINGS	DMS-8241
TEMPORARY FLEXIBLE, REFLECTIVE ROADWAY MARKER TABS	DMS-8242

A list of prequalified reflective raised pavement markers, non-reflective traffic buttons, roadway marker tabs and other pavement markings can be found at the Material Producer List web address shown on BC(1).

Texas Department of Transportation

Traffic Operations Division Standard

BARRICADE AND CONSTRUCTION PAVEMENT MARKINGS

BC(11)-14

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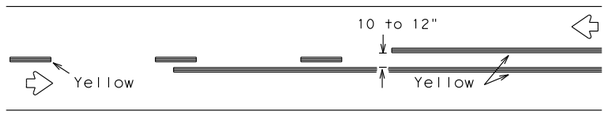
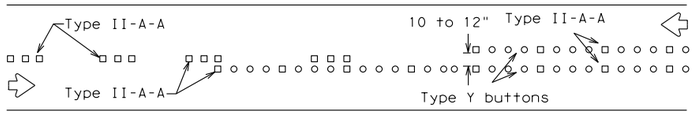
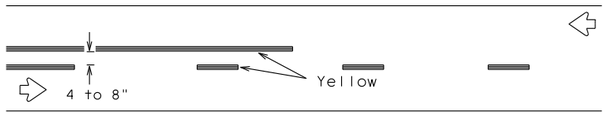
PAVEMENT MARKING PATTERNS



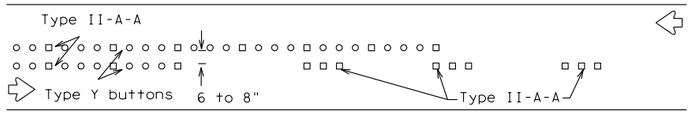
REFLECTORIZED PAVEMENT MARKINGS - PATTERN A



RAISED PAVEMENT MARKERS - PATTERN A



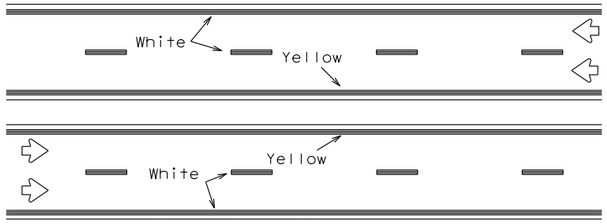
REFLECTORIZED PAVEMENT MARKINGS - PATTERN B



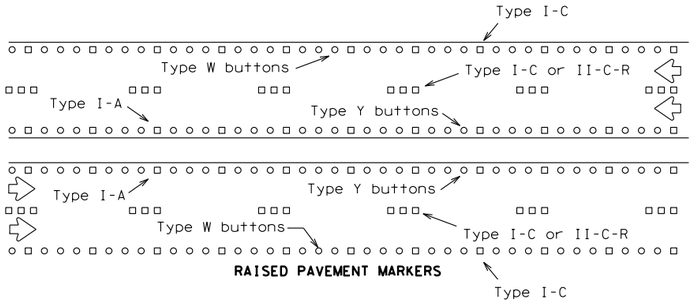
RAISED PAVEMENT MARKERS - PATTERN B

Pattern A is the TXDOT Standard, however Pattern B may be used if approved by the Engineer.
Prefabricated markings may be substituted for reflectorized pavement markings.

CENTER LINE & NO-PASSING ZONE BARRIER LINES FOR TWO-LANE, TWO-WAY HIGHWAYS



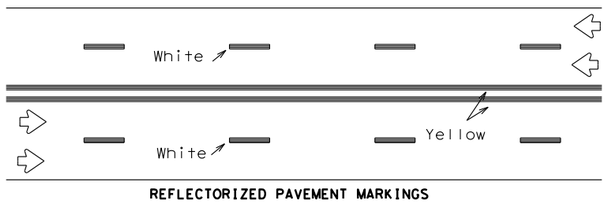
REFLECTORIZED PAVEMENT MARKINGS



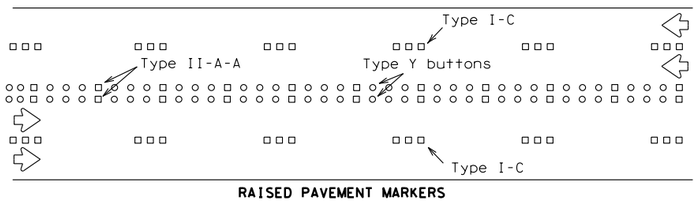
RAISED PAVEMENT MARKERS

Prefabricated markings may be substituted for reflectorized pavement markings.

EDGE & LANE LINES FOR DIVIDED HIGHWAY



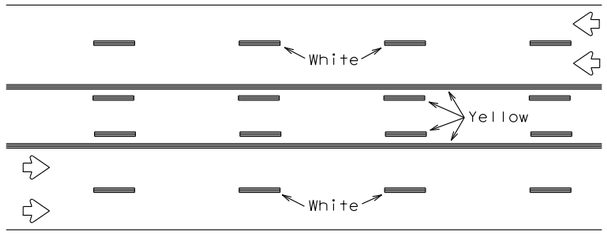
REFLECTORIZED PAVEMENT MARKINGS



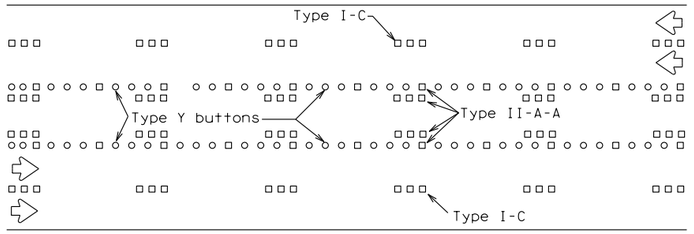
RAISED PAVEMENT MARKERS

Prefabricated markings may be substituted for reflectorized pavement markings.

LANE & CENTER LINES FOR MULTILANE UNDIVIDED HIGHWAYS



REFLECTORIZED PAVEMENT MARKINGS



RAISED PAVEMENT MARKERS

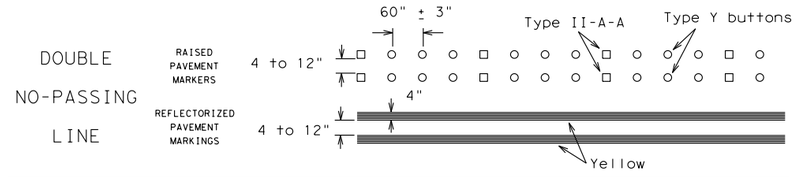
Prefabricated markings may be substituted for reflectorized pavement markings.

TWO-WAY LEFT TURN LANE

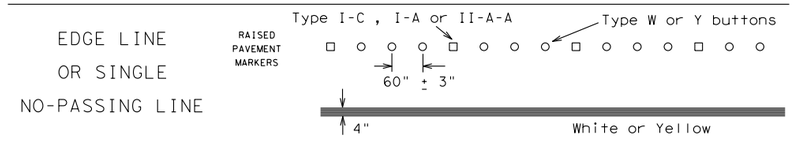
STANDARD WORK ZONE PAVEMENT MARKINGS DETAILS

SOLID LINES

DOUBLE NO-PASSING LINE

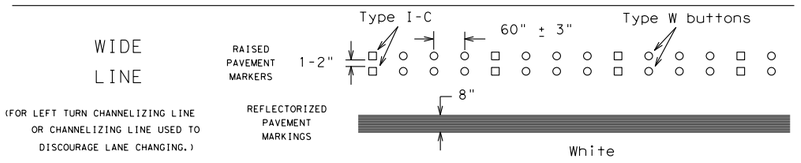


EDGE LINE OR SINGLE NO-PASSING LINE



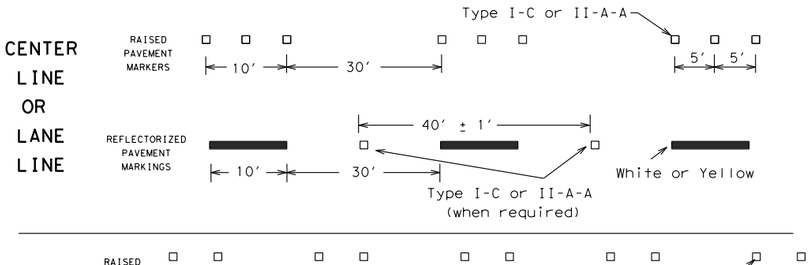
WIDE LINE

(FOR LEFT TURN CHANNELIZING LINE OR CHANNELIZING LINE USED TO DISCOURAGE LANE CHANGING.)

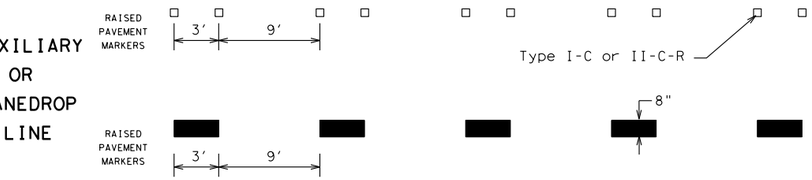


BROKEN LINES

CENTER LINE OR LANE LINE

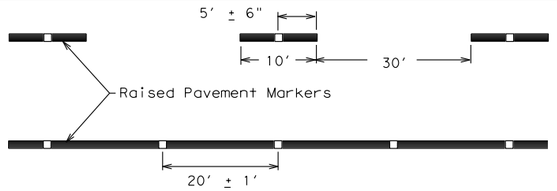


AUXILIARY OR LANEDROP LINE



REMOVABLE MARKINGS WITH RAISED PAVEMENT MARKERS

If raised pavement markers are used to supplement REMOVABLE markings, the markers shall be applied to the top of the tape at the approximate mid length of tape used for broken lines or at 20 foot spacing for solid lines. This allows an easier removal of raised pavement markers and tape.



Centerline only - not to be used on edge lines

Raised pavement markers used as standard pavement markings shall be from the approved products list and meet the requirements of Item 672 "RAISED PAVEMENT MARKERS."

Texas Department of Transportation

Traffic Operations Division Standard

BARRICADE AND CONSTRUCTION PAVEMENT MARKING PATTERNS

BC(12)-14

FILE: bc-14.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
©TxDOT February 1998	CONT	SECT	JOB	HIGHWAY
REVISIONS				
1-97 9-07	DIST	COUNTY		SHEET NO.
2-98 7-13				
11-02 8-14				53

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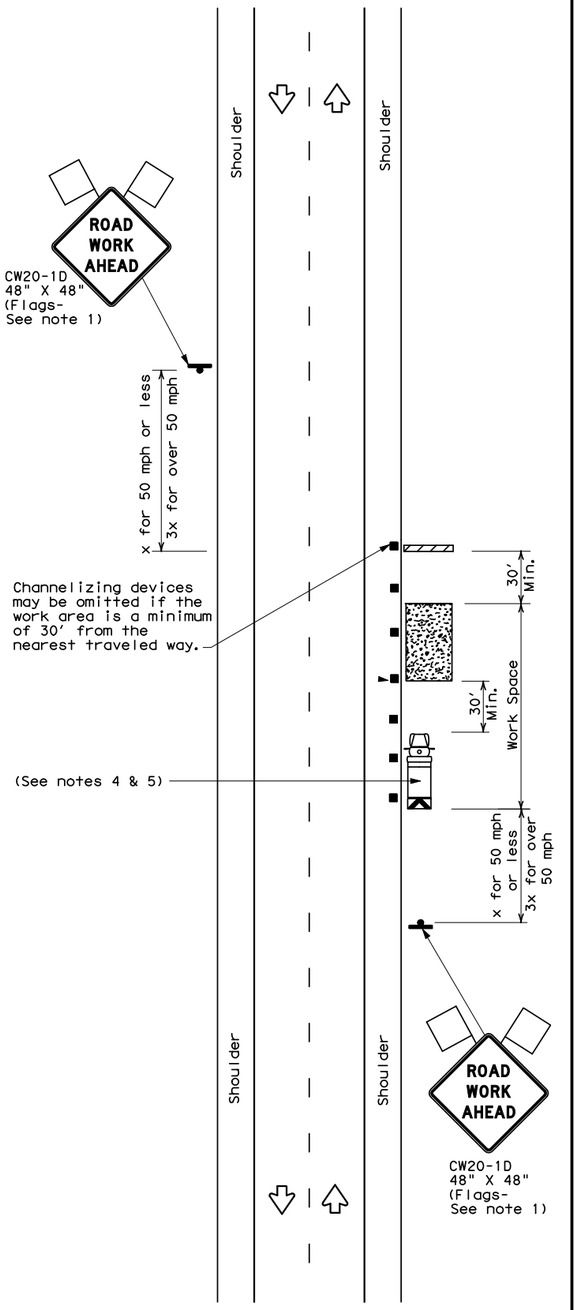
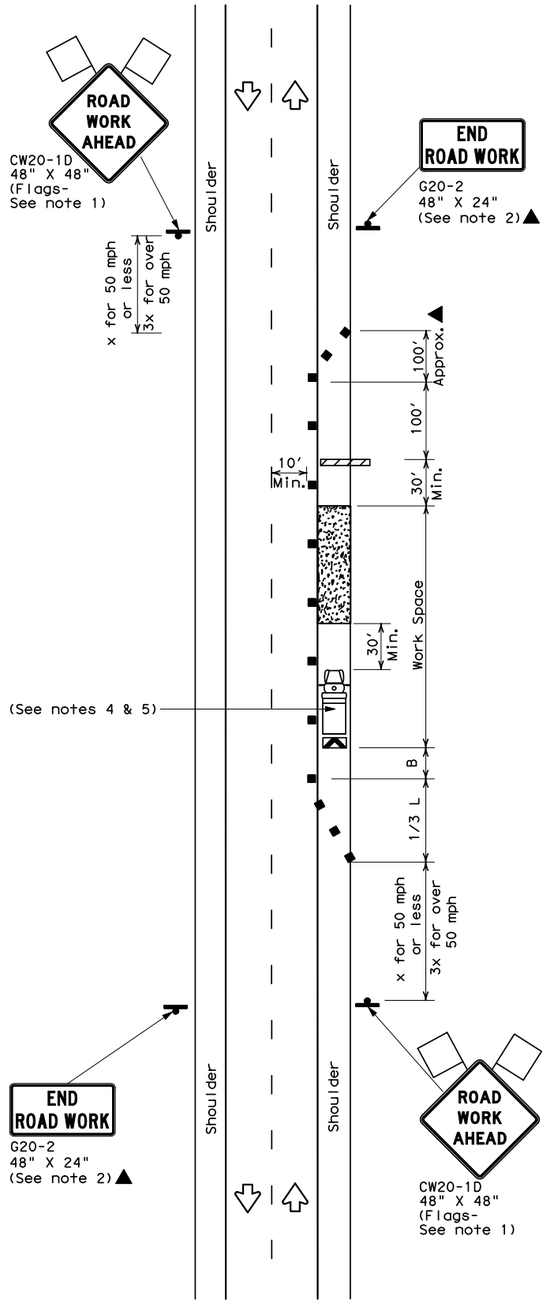


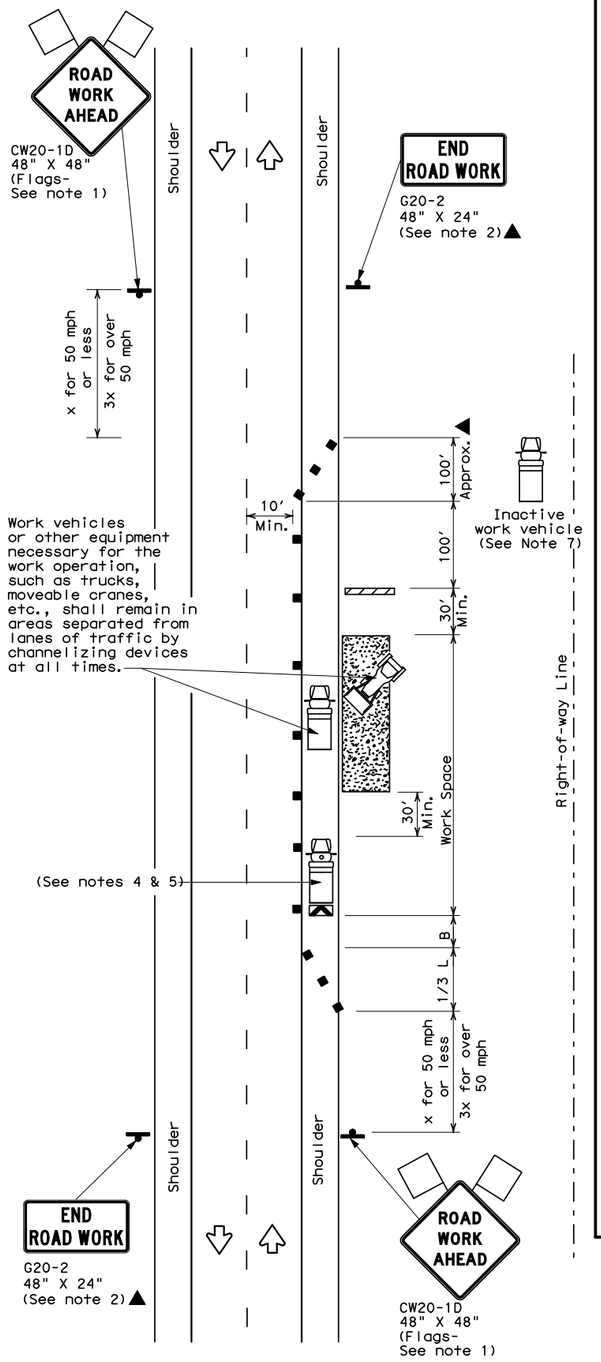
TCP (2-1a)

WORK SPACE NEAR SHOULDER
Conventional Roads



TCP (2-1b)

WORK SPACE ON SHOULDER
Conventional Roads



TCP (2-1c)

WORK VEHICLES ON SHOULDER
Conventional Roads

LEGEND			
	Type 3 Barricade		Channelizing Devices
	Heavy Work Vehicle		Truck Mounted Attenuator (TMA)
	Trailer Mounted Flashing Arrow Board	M	Portable Changeable Message Sign (PCMS)
	Sign		Traffic Flow
	Flag		Flagger

Posted Speed *	Formula	Minimum Desirable Taper Lengths ** 10' Offset	11' Offset	12' Offset	Suggested Maximum Spacing of Channelizing Devices On a Taper	On a Tangent	Minimum Sign Spacing "X" Distance	Suggested Longitudinal Buffer Space "B"
30	$L=\frac{WS^2}{60}$	150'	165'	180'	30'	60'	120'	90'
35		205'	225'	245'	35'	70'	160'	120'
40		265'	295'	320'	40'	80'	240'	155'
45	L=WS	450'	495'	540'	45'	90'	320'	195'
50		500'	550'	600'	50'	100'	400'	240'
55		550'	605'	660'	55'	110'	500'	295'
60		600'	660'	720'	60'	120'	600'	350'
65		650'	715'	780'	65'	130'	700'	410'
70		700'	770'	840'	70'	140'	800'	475'
75		750'	825'	900'	75'	150'	900'	540'

* Conventional Roads Only

** Taper lengths have been rounded off.
L=Length of Taper(FT) W=Width of Offset(FT) S=Posted Speed(MPH)

TYPICAL USAGE				
MOBILE	SHORT DURATION	SHORT TERM STATIONARY	INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY
	✓	✓	✓	✓

GENERAL NOTES

1. Flags attached to signs where shown, are REQUIRED.
2. All traffic control devices illustrated are REQUIRED, except those denoted with the triangle symbol may be omitted when stated in the plans, or for routine maintenance work, when approved by the Engineer.
3. Stockpiled material should be placed a minimum of 30 feet from nearest traveled way.
4. Shadow Vehicle with TMA and high intensity rotating, flashing, oscillating or strobe lights. A Shadow Vehicle with a TMA should be used anytime it can be positioned 30 to 100 feet in advance of the area of crew exposure without adversely affecting the performance or quality of the work. If workers are no longer present but road or work conditions require the traffic control to remain in place, Type 3 Barricades or other channelizing devices may be substituted for the Shadow Vehicle and TMA.
5. Additional Shadow Vehicles with TMAs may be positioned off the paved surface, next to those shown in order to protect a wider work space.
6. See TCP(5-1) for shoulder work on divided highways, expressways and freeways.
7. Inactive work vehicles or other equipment should be parked near the right-of-way line and not parked on the paved shoulder.
8. CW21-5 "SHOULDER WORK" signs may be used in place of CW21-1D "ROAD WORK AHEAD" signs for shoulder work on conventional roadways.

For construction or maintenance contract work, specific project requirements for shadow vehicles can be found in the project GENERAL NOTES for Item 502, Barricades, Signs and Traffic Handling.

Texas Department of Transportation
Traffic Operations Division

TRAFFIC CONTROL PLAN CONVENTIONAL ROAD SHOULDER WORK

TCP(2-1)-12

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REVISIONS
2-94 2-12
8-95
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4-98

CONT	SECT	JOB	HIGHWAY

DIST	COUNTY	SHEET NO.
		54

161

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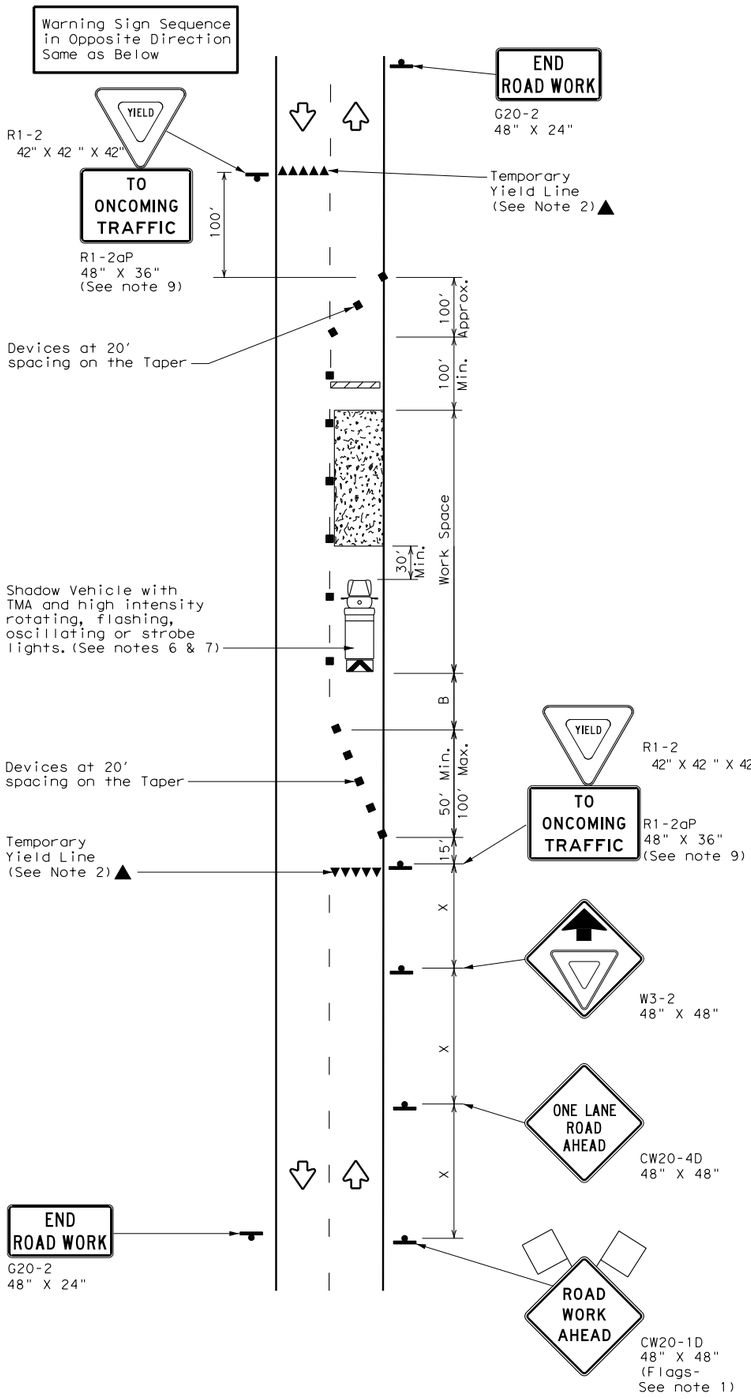
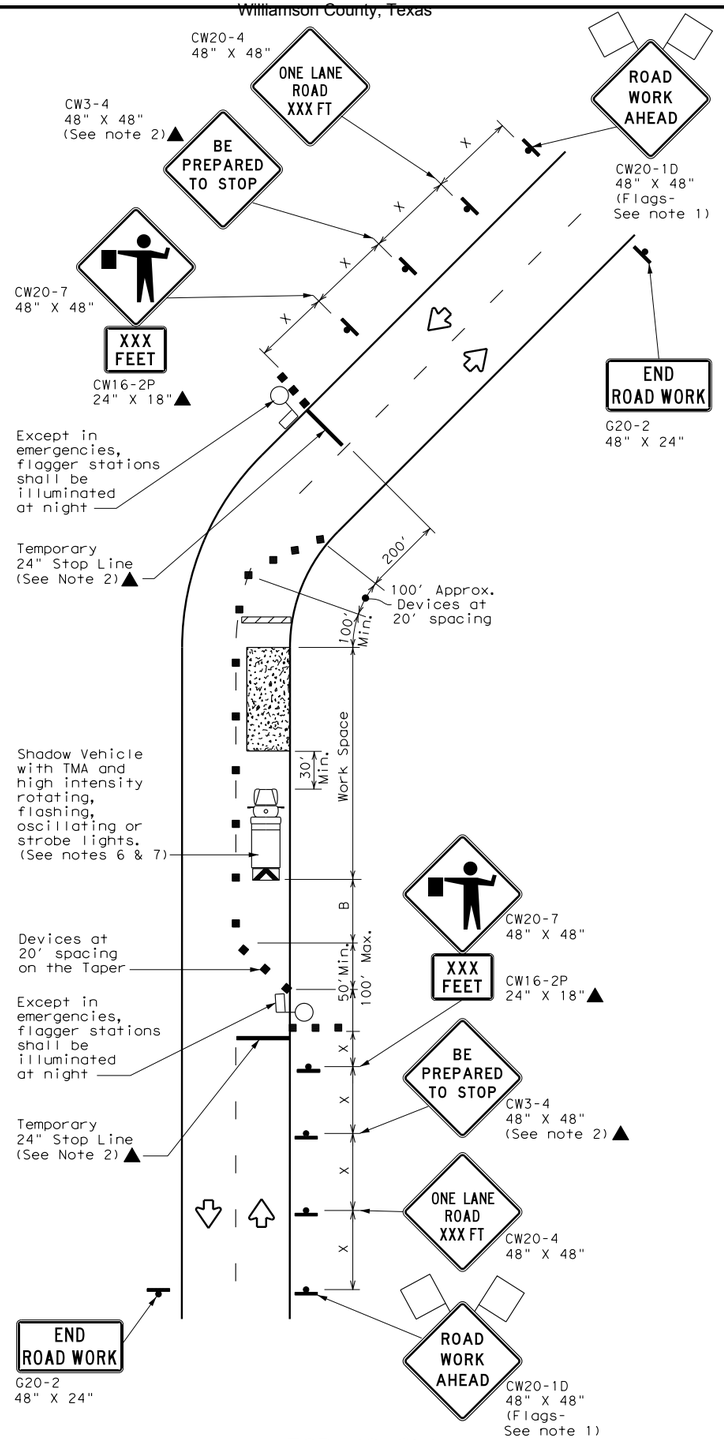


TCP (2-2a)
2-LANE ROADWAY WITHOUT PAVED SHOULDERS
ONE LANE TWO-WAY
CONTROL WITH YIELD SIGNS
(Less than 2000 ADT - See Note 9)



TCP (2-2b)
2-LANE ROADWAY WITHOUT PAVED SHOULDERS
ONE LANE TWO-WAY
CONTROL WITH FLAGGERS

LEGEND			
	Type 3 Barricade		Channelizing Devices
	Heavy Work Vehicle		Truck Mounted Attenuator (TMA)
	Trailer Mounted Flashing Arrow Board	M	Portable Changeable Message Sign (PCMS)
	Sign		Traffic Flow
	Flag		Flagger

Posted Speed *	Formula	Minimum Desirable Taper Lengths ** 10' Offset	11' Offset	12' Offset	Suggested Maximum Spacing of Channelizing Devices: On a Taper	On a Tangent	Minimum Sign Spacing "X" Distance	Suggested Longitudinal Buffer Space "B"	Stopping Sight Distance
30	$L = \frac{WS^2}{60}$	150'	165'	180'	30'	60'	120'	90'	200'
35		205'	225'	245'	35'	70'	160'	120'	250'
40		265'	295'	320'	40'	80'	240'	155'	305'
45	L = WS	450'	495'	540'	45'	90'	320'	195'	360'
50		500'	550'	600'	50'	100'	400'	240'	425'
55		550'	605'	660'	55'	110'	500'	295'	495'
60		600'	660'	720'	60'	120'	600'	350'	570'
65		650'	715'	780'	65'	130'	700'	410'	645'
70		700'	770'	840'	70'	140'	800'	475'	730'
75		750'	825'	900'	75'	150'	900'	540'	820'

* Conventional Roads Only
** Taper lengths have been rounded off.
L=Length of Taper(FT) W=Width of Offset(FT) S=Posted Speed(MPH)

TYPICAL USAGE				
MOBILE	SHORT DURATION	SHORT TERM STATIONARY	INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY
	✓	✓	✓	

GENERAL NOTES

1. Flags attached to signs where shown, are REQUIRED.
2. All traffic control devices illustrated are REQUIRED, except those denoted with the triangle symbol may be omitted when stated elsewhere in the plans, or for routine maintenance work, when approved by the Engineer.
3. The CW3-4 "BE PREPARED TO STOP" sign may be installed after the CW20-4 "ONE LANE ROAD XXX FT" sign, but proper sign spacing shall be maintained.
4. Flaggers should use two-way radios or other methods of communication to control traffic.
5. Length of work space should be based on the ability of flaggers to communicate.
6. A Shadow Vehicle with a TMA should be used anytime it can be positioned 30 to 100 feet in advance of the area of crew exposure without adversely affecting the performance or quality of the work. If workers are no longer present but road or work conditions require the traffic control to remain in place, Type 3 Barricades or other channelizing devices may be substituted for the Shadow Vehicle and TMA.
7. Additional Shadow Vehicles with TMAs may be positioned off the paved surface, next to those shown in order to protect a wider work space.

TCP (2-2a)

8. The R1-2 "YIELD" sign traffic control may be used on projects with approaches that have adequate sight distance. For projects in urban areas, work space should be no longer than one half city block. In rural areas, roadways with less than 2000 ADT, work space should be no longer than 400 feet.
9. The R1-2aP "YIELD TO ONCOMING TRAFFIC" sign shall be placed on a support at a 7 foot minimum mounting height.

TCP (2-2b)

10. Channelizing devices on the center line may be omitted when a pilot car is leading traffic and approved by the Engineer.
11. If the work space is located near a horizontal or vertical curve, the buffer distances should be increased in order to maintain stopping sight distance to the flagger and a queue of stopped vehicles. (See table above).
12. Flaggers should use 24" STOP/SLOW paddles to control traffic. Flags should be limited to emergency situtations.

For construction or maintenance contract work, specific project requirements for shadow vehicles can be found in the project GENERAL NOTES for Item 502, Barricades, Signs and Traffic Handling.

Texas Department of Transportation
Traffic Operations Division

TRAFFIC CONTROL PLAN
ONE-LANE TWO-WAY TRAFFIC CONTROL

TCP(2-2)-12

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1-97				
4-98	DIST	COUNTY		SHEET NO.
3-03				
162				

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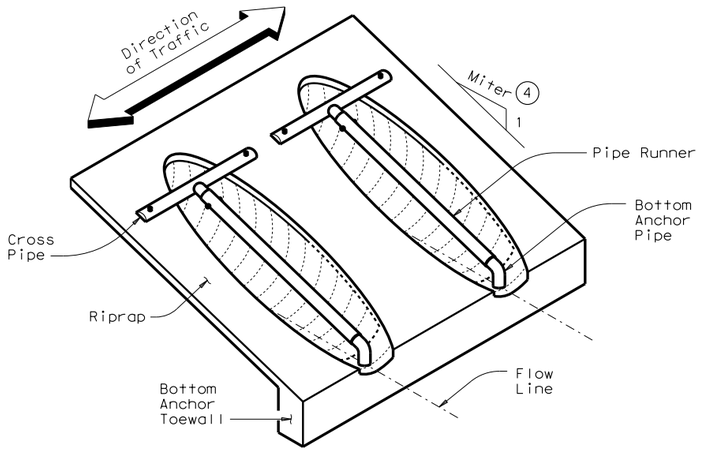
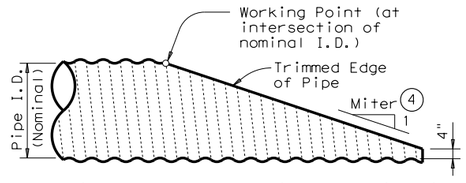


ISOMETRIC VIEW OF TYPICAL INSTALLATION

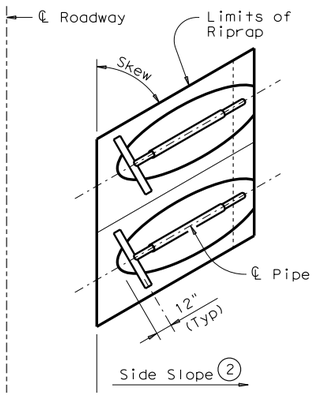
(Showing installation with no skew.)



NOTE: All Pipe Runners, calculations, and dimensions are based on the pipe culverts mitered as shown in this detail. Alternate styles of mitered ends will require that appropriate adjustments be made to the values presented on this standard.

SIDE ELEVATION OF TYPICAL PIPE CULVERT MITER

(Showing Corrugated Metal Pipe Culvert. Details of Concrete Pipe Culvert are similar.)



PLAN OF SKEWED INSTALLATION

CROSS PIPE LENGTHS, PIPE RUNNER LENGTHS, & REQUIRED PIPE SIZES

(1) (3)

CORRUGATED METAL PIPE CULVERTS

Design	Pipe Culvert Span	Pipe Culvert Rise	Pipe Culvert Spa ~ G	Cross Pipe Length	Pipe Runner Length											
					3:1 Side Slope				4:1 Side Slope				6:1 Side Slope			
					0° Skew	15° Skew	30° Skew	45° Skew	0° Skew	15° Skew	30° Skew	45° Skew	0° Skew	15° Skew	30° Skew	45° Skew
1	17"	13"	1'- 0"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2	21"	15"	1'- 2"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3	28"	20"	1'- 5"	3'- 9"	N/A	N/A	3'- 5"	4'- 7"	N/A	N/A	4'-11"	6'- 5"	N/A	N/A	7'-11"	10'- 2"
4	35"	24"	1'- 8"	4'- 4"	3'-10"	4'- 0"	4'- 7"	6'- 0"	5'- 5"	5'- 8"	6'- 6"	8'- 4"	8'- 8"	9'- 1"	10'- 3"	12'-11"
5	42"	29"	1'-11"	4'-11"	5'- 1"	5'- 4"	6'- 1"	7'-10"	7'- 2"	7'- 5"	8'- 6"	10'- 9"	11'- 2"	11'- 8"	13'- 2"	16'- 6"
6	49"	33"	2'- 2"	5'- 6"	6'- 2"	6'- 5"	7'- 4"	N/A	8'- 6"	8'-10"	10'- 0"	N/A	13'- 3"	13'- 9"	15'- 6"	N/A
7	57"	38"	2'- 5"	6'- 2"	7'- 6"	7'- 9"	N/A	N/A	10'- 2"	10'- 7"	N/A	N/A	15'- 9"	16'- 4"	N/A	N/A

CONCRETE PIPE CULVERTS

Design	Pipe Culvert Span	Pipe Culvert Rise	Pipe Culvert Spa ~ G	Cross Pipe Length	Pipe Runner Length											
					3:1 Side Slope				4:1 Side Slope				6:1 Side Slope			
					0° Skew	15° Skew	30° Skew	45° Skew	0° Skew	15° Skew	30° Skew	45° Skew	0° Skew	15° Skew	30° Skew	45° Skew
1	22"	13 1/2"	1'- 0"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2	26"	15 1/2"	1'- 2"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3	28 1/2"	18"	1'- 5"	3'-9 1/2"	N/A	N/A	2'-10"	3'-10"	N/A	N/A	4'- 2"	5'- 5"	N/A	N/A	6'- 9"	8'- 9"
4	36 1/4"	22 1/2"	1'- 8"	4'-5 1/4"	3'- 5"	3'- 7"	4'- 2"	5'- 6"	4'-11"	5'- 1"	5'-11"	7'- 7"	7'-11"	8'- 3"	9'- 5"	11'-11"
5	43 3/4"	26 5/8"	1'-11"	5'-0 3/4"	4'- 6"	4'- 8"	5'- 5"	6'-11"	6'- 4"	6'- 7"	7'- 6"	9'- 7"	10'- 0"	10'- 5"	11'- 9"	14'-10"
6	51 1/8"	31 5/16"	2'- 2"	5'- 8"	5'- 9"	6'- 0"	6'-10"	N/A	7'-11"	8'- 3"	9'- 4"	N/A	12'- 4"	12'-10"	14'- 6"	N/A
7	58 1/2"	36"	2'- 5"	6'-3 1/2"	6'-11"	7'- 3"	N/A	N/A	9'- 6"	9'-11"	N/A	N/A	14'- 9"	15'- 4"	N/A	N/A

TYPICAL PIPE CULVERT MITERS (4)

Side Slope	0° Skew	15° Skew	30° Skew	45° Skew
3:1	3:1	3.106:1	3.464:1	4.243:1
4:1	4:1	4.141:1	4.619:1	5.657:1
6:1	6:1	6.212:1	6.928:1	8.485:1

STANDARD PIPE SIZES & MAX PIPE RUNNER LENGTHS (1)

Pipe Size	Pipe O.D.	Pipe I.D.	Max Pipe Runner Length
2" STD	2.375"	2.067"	N/A
3" STD	3.500"	3.068"	10'- 0"
4" STD	4.500"	4.026"	19'- 8"
5" STD	5.563"	5.047"	34'- 2"

CONDITIONS WHERE PIPE RUNNERS ARE NOT REQUIRED (3)

Design	Single Pipe Culvert	Multiple Pipe Culverts
1 & 2	Skews thru 45°	Skews thru 45°
3	Skews thru 30°	Skews thru 15°
4	Normal (No Skew)	Always required
5 thru 7	Always required	Always required

(1) Size of Pipe Runner shall be as shown in the tables. Cross Pipe shall be the same size as the Pipe Runner. Cross Pipe Stub Out and Bottom Anchor Pipe shall be the next smaller size pipe as shown in the STANDARD PIPE SIZES table.

(2) Recommended values of slope are 3:1, 4:1, & 6:1. All quantities, calculations, and dimensions shown herein are based on these recommended values. Slope of 3:1 or flatter is required for vehicle safety.

(3) This standard allows for the placement of only one pipe runner across each culvert pipe opening. In order to limit the clear opening to be traversed by an errant vehicle, the following conditions must be met:

For Design 1 through 5 culvert pipe sizes, the skew must not exceed 45°.
For Design 6 culvert pipes, the skew must not exceed 30°.
For Design 7 culvert pipes, the skew must not exceed 15°.

If the above conditions cannot be met, the designer should consider using a safety end treatment with flared wings. For further information, refer to the TxDOT "Roadway Design Manual".

(4) Miter = Slope of Mitered Pipe Culvert End

GENERAL NOTES:

Pipe Runners are designed for a traversing load of 1,800 pounds at yield as recommended by Research Report 280-1, "Safety Treatment of Roadside Cross-Drainage Structures", Texas Transportation Institute, March 1981.

The Safety End Treatments shown herein are intended for use in those installations where out of control vehicles are likely to traverse the openings approximately perpendicular to the Pipe Runners.

Riprap and all necessary inverts shall be Concrete Riprap conforming to the requirements of Item 432, "Riprap".

Synthetic fibers listed on the "Fibers for Concrete" Material Producer List (MPL) may be used in lieu of steel reinforcing in riprap concrete unless noted otherwise.

Payment for riprap and toewall is included in the Price Bid for each Safety End Treatment.

Pipe Runners, Cross Pipes, and Anchor Pipes shall conform to the requirements of ASTM A53 (Type E or S, Grade B), ASTM A500 (Grade B), or API 5LX52.

Bolts and nuts shall conform to ASTM A307.

All steel components, except concrete reinforcing, shall be galvanized after fabrication. Galvanizing damaged during transport or construction shall be repaired in accordance with the specifications.

Texas Department of Transportation

Bridge Division Standard

SAFETY END TREATMENT

FOR DESIGN 1 TO 7
ARCH PIPE CULVERTS
TYPE II ~ CROSS DRAINAGE

SETP-CD-A

FILE: setpcase.dgn	DN: GAF	CK: CAT	DW: JRP	CK: GAF
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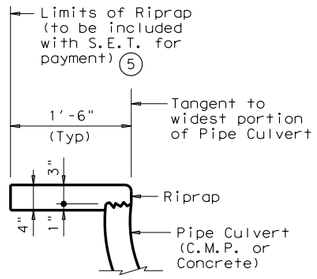
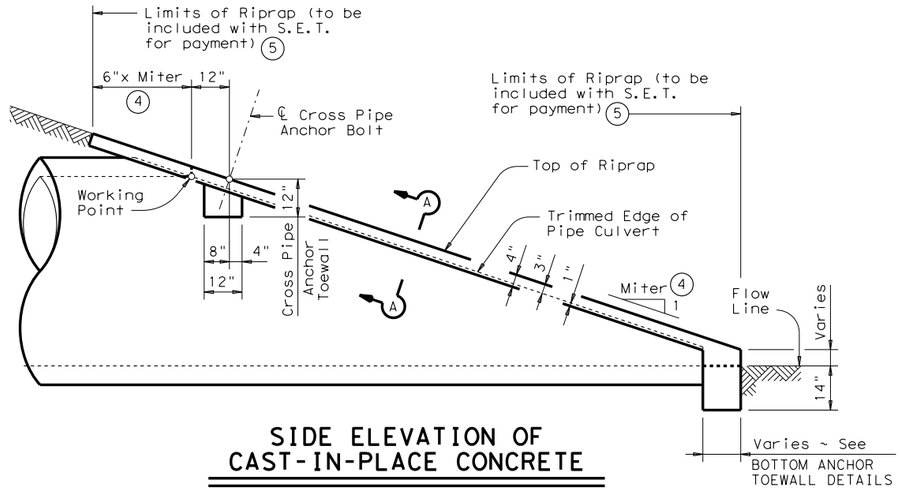


SHOWING TYPICAL PIPE CULVERT & RIPRAP

SECTION A-A



SIDE ELEVATION OF CAST-IN-PLACE CONCRETE

(Showing Concrete Pipe Culvert.
Details of Corrugated Metal Pipe Culvert are similar.
Pipe Runners not shown for clarity)

ESTIMATED CONCRETE RIPRAP QUANTITIES (CY) (6)
BOTH CORRUGATED METAL PIPE CULVERTS AND CONCRETE PIPE CULVERTS

Design	3:1 Side Slope				4:1 Side Slope				6:1 Side Slope			
	0° Skew	15° Skew	30° Skew	45° Skew	0° Skew	15° Skew	30° Skew	45° Skew	0° Skew	15° Skew	30° Skew	45° Skew
1	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.8	0.9
2	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.7	0.7	0.8	0.8	1.0
3	0.6	0.6	0.7	0.8	0.7	0.7	0.8	0.9	0.9	1.0	1.0	1.2
4	0.7	0.7	0.8	0.9	0.8	0.9	0.9	1.0	1.1	1.1	1.2	1.4
5	0.8	0.8	0.9	1.0	1.0	1.0	1.1	1.2	1.3	1.3	1.4	1.7
6	0.9	1.0	1.0	N/A	1.1	1.1	1.2	N/A	1.4	1.5	1.6	N/A
7	1.0	1.1	N/A	N/A	1.3	1.3	N/A	N/A	1.7	1.7	N/A	N/A

(4) Miter = Slope of Mitered Pipe Culvert End

(5) Riprap placed beyond the limits shown will be paid as Concrete Riprap in accordance with Item 432, "Riprap".

(6) Quantities shown are for one end of one Pipe Culvert. For multiple Pipe Culverts, quantities will need to be adjusted. Riprap quantities are for Contractor's information only.

Texas Department of Transportation

Bridge Division Standard

SAFETY END TREATMENT

FOR DESIGN 1 TO 7
ARCH PIPE CULVERTS
TYPE II ~ CROSS DRAINAGE

SETP-CD-A

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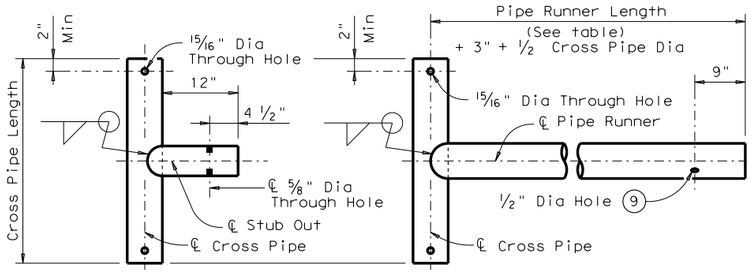
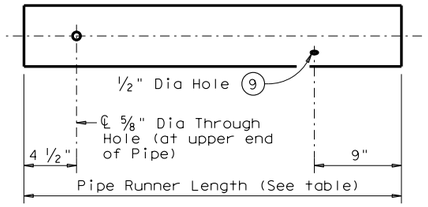


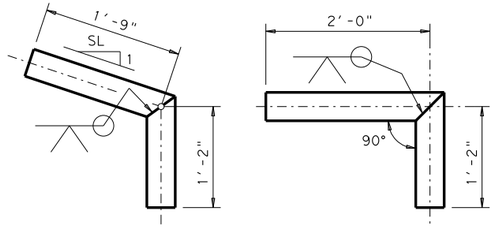
OPTION A1 OPTION A2

CROSS PIPE AND CONNECTIONS DETAILS



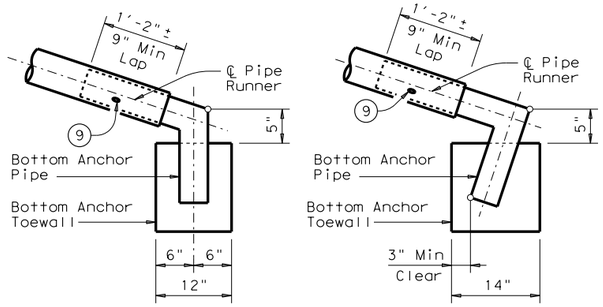
NOTE: The separate Pipe Runner shown is required when Cross Pipe Connection Option A1 is used.

PIPE RUNNER DETAILS



OPTION B1 OPTION B2

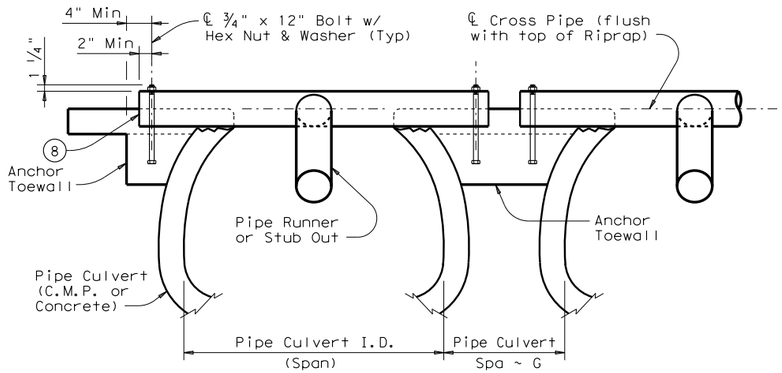
BOTTOM ANCHOR PIPE DETAILS (10)



OPTION B1 OPTION B2

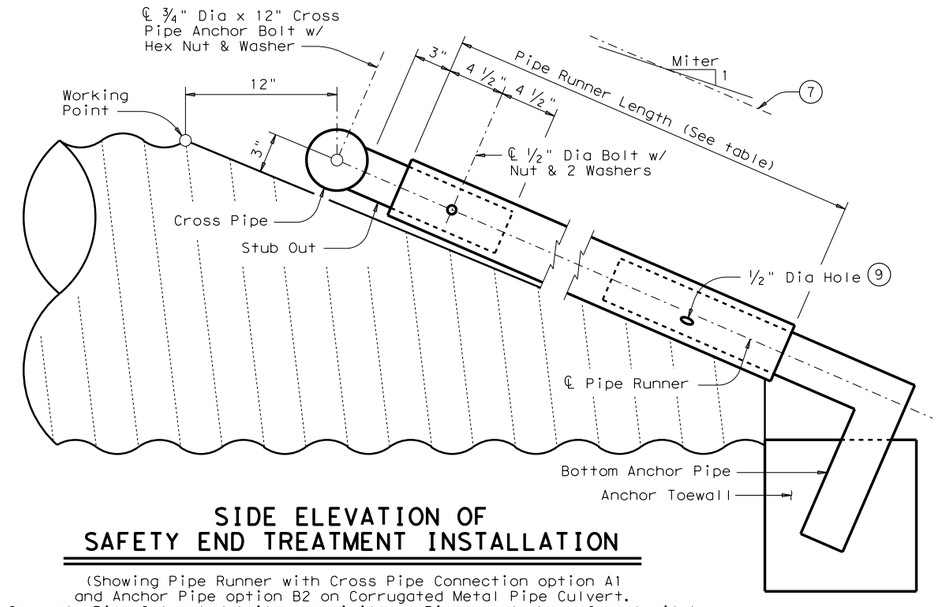
BOTTOM ANCHOR TOEWALL DETAILS

(Culvert & Riprap not shown for clarity)



SHOWING CROSS PIPE & ANCHOR TOEWALL

SECTION A-A



SIDE ELEVATION OF SAFETY END TREATMENT INSTALLATION

(Showing Pipe Runner with Cross Pipe Connection option A1 and Anchor Pipe option B2 on Corrugated Metal Pipe Culvert. Concrete Pipe Culvert details are similar. Riprap not shown for clarity)

(7) Note that actual slope of Pipe Runner may vary slightly from Side Slope of Riprap and trimmed Culvert Pipe edge.

(8) Care shall be taken to ensure that Riprap concrete does not flow into the Cross Pipe so as to permit disassembly of the bolted connection to allow cleanout access.

(9) After installation, the 1/2" hole shall be inspected to ensure that the lap of the Pipe Runner with the Bottom Anchor Pipe is adequate.

(10) At fabricator's option, a heat bend to a smooth 5" radius or a manufactured elbow (of the same material as the Runner) may be substituted for the mitered and welded joint in the Bottom Anchor Pipe.

Texas Department of Transportation | Bridge Division Standard

SAFETY END TREATMENT

FOR DESIGN 1 TO 7
ARCH PIPE CULVERTS
TYPE II ~ CROSS DRAINAGE

SETP-CD-A

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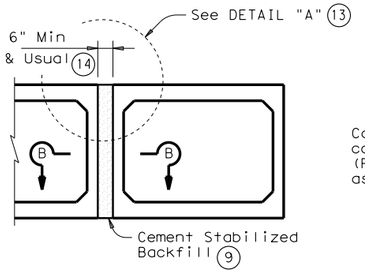
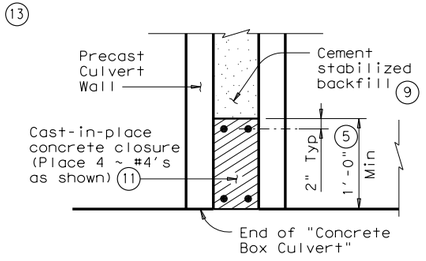
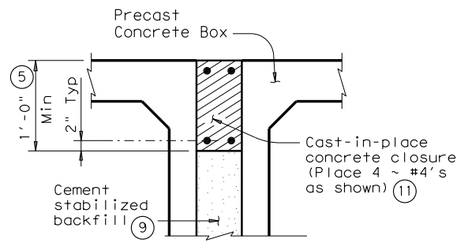


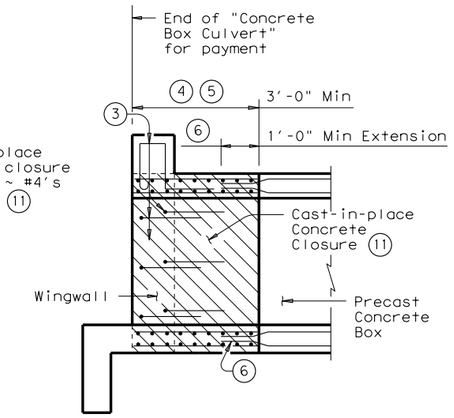
MULTIPLE UNIT PLACEMENT



SECTION B-B

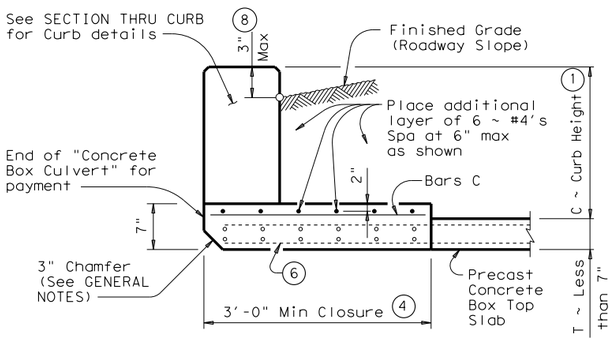


DETAIL "A" (13)

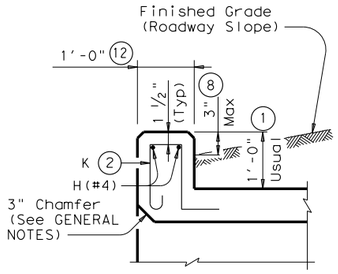


WINGWALL CONNECTION

(Also applies to Safety End Treatment)

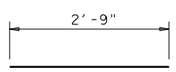


SECTION THRU TOP SLABS LESS THAN 7"

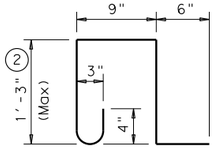


SECTION THRU CURB

(10) QUANTITIES PER FOOT OF CURB	
Reinforcing Steel	4.18 Lb
Concrete	0.037 CY



BARS C ~ #4
(Spa = 1'-0" Max)



BARS K ~ #4
(Spa = 1'-0" Max)
(Length = 4'-3")

1. 0" min to 5'-0" max. Estimated curb heights are shown elsewhere in the plans. For structures with pedestrian rail, bicycle rail or curbs taller than 1'-0", refer to ECD standard. For structures with T6 traffic rail, refer to T6-CM standard. For structures with traffic rail, other than T6, refer to RAC standard.
2. For curbs less than 1'-0" high, tilt Bars K or reduce bar height as necessary to maintain cover. For curbs less than 3" high, Bars K may be omitted.
3. Curb, Wingwall or Safety End Treatment reinforcing shall extend into concrete closure. Any reinforcing that does not fit into the closure shall be bent or trimmed as necessary.
4. Cast-in-place concrete closure shall be 3'-0" min. Boxes shall be cast short or broken back in the field. All reinforcing in the closure shall be the same size and spacing as in the precast box section. Except where shown otherwise, the cast-in-place closure shall be flush with the inside and outside faces of the precast box section.
5. For multiple unit placements the length of the closure for the interior walls may be adjusted as necessary. The length of the top slab, bottom slab, and exterior wall closure shall not be less than 3'-0". See Section B-B detail when interior walls are cast full length.
6. Precast box reinforcing shall extend a minimum of 1'-0" into concrete closure (Typ).
7. Bands of reinforcing matching the inside and outside face reinforcing shall be placed in the gaps of the top and bottom slabs. A band matching the outside face reinforcing of the wall shall be placed in the gaps of the walls (placed in the outside face only). The bands shall be tack welded to the exposed reinforcing at each point of contact.
8. For vehicle safety, the following requirements must be met:
   - For structures without bridge rail, curbs shall project no more than 3" above finished grade.
   - For structures with bridge rail, curbs shall be flush with finished grade.

   Curb heights shall be reduced, if necessary, to meet the above requirements. No changes will be made in quantities and no additional compensation will be allowed for this work.
9. Cement Stabilized Backfill between boxes is considered part of the Box Culvert for payment.
10. All curb concrete and reinforcing is considered part of the Box Culvert for payment.
11. Any additional concrete and reinforcing required for the closures shall be considered as subsidiary to the Concrete Box Culvert.
12. 1'-0" typical. 2'-0" when RAC standard is referred to elsewhere in the plans.
13. For multiple unit placement with overlay, with 1 to 2 course surface treatment, or with the top slab as the final riding surface, provide wall closure as shown in DETAIL "A".
14. This dimension may be increased with approval of the Engineer to allow the precast boxes to be tunneled or jacked in accordance with Item 476, "Jacking, Boring, or Tunneling Pipe or Box". No payment will be made for any additional material in the gap between adjacent boxes.

GENERAL NOTES:

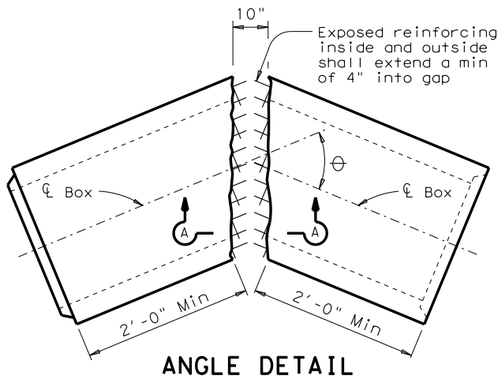
Designed according to AASHTO LRFD Specifications.

All closure concrete shall be Class "C" with a minimum compressive strength of 3600 psi and shall be placed according to the Item, "Concrete Substructures".

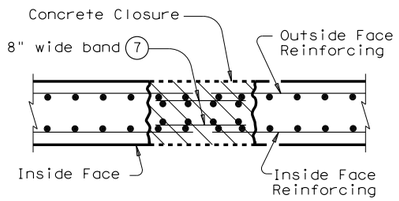
Any additional concrete required for the closures shall be considered as subsidiary to the Concrete Box Culvert.

Refer to the Single Box Culverts Precast standard for details not shown.

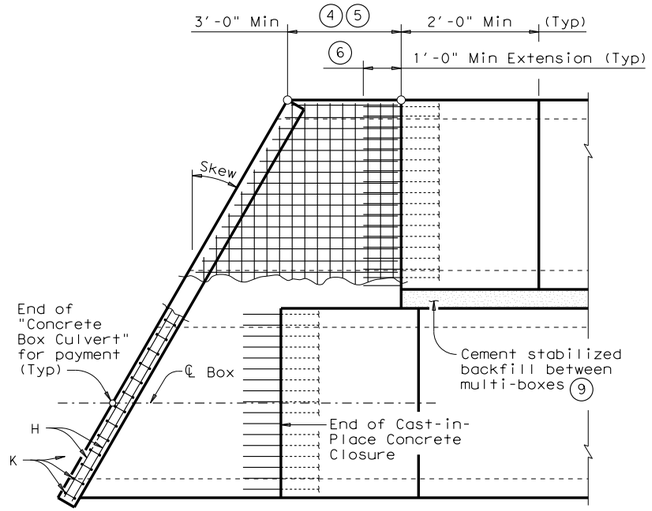
The bottom edge of the top slab closure shall be chamfered 3 inches at the entrance.



ANGLE DETAIL



SECTION A-A



PLAN OF SKEWED ENDS

(Showing multi-box placement)

HL93 LOADING

Texas Department of Transportation | Bridge Division Standard

BOX CULVERTS PRECAST MISCELLANEOUS DETAILS

SCP-MD

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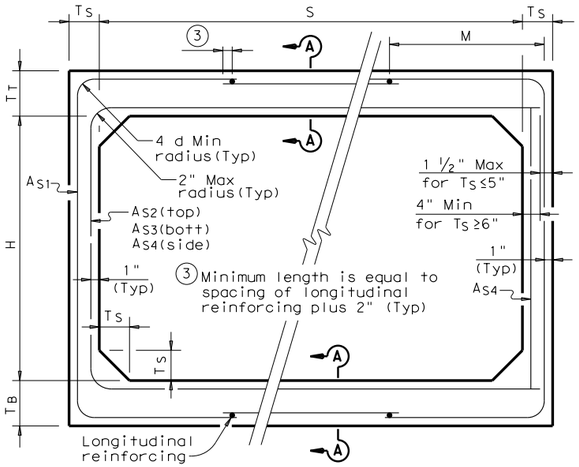
BOX DATA

SECTION DIMENSIONS					Fill Height	M (Min)	REINFORCING (in²/ft) ②								① Lift Weight (Tons)
S (ft)	H (ft)	T_T (in)	T_B (in)	T_S (in)	(ft)	(in)	A_{S1}	A_{S2}	A_{S3}	A_{S4}	A_{S5}	A_{S6}	A_{S7}	A_{S8}	
8	4	8	8	8	<2	-	0.27	0.38	0.29	0.19	0.19	0.19	0.19	0.19	11.2
8	4	8	8	8	2<3	50	0.31	0.34	0.32	0.19	-	-	-	-	11.2
8	4	8	8	8	3-5	50	0.25	0.27	0.27	0.19	-	-	-	-	11.2
8	4	8	8	8	10	45	0.26	0.28	0.29	0.19	-	-	-	-	11.2
8	4	8	8	8	15	41	0.34	0.37	0.38	0.19	-	-	-	-	11.2
8	4	8	8	8	20	41	0.44	0.48	0.49	0.19	-	-	-	-	11.2
8	5	8	8	8	<2	-	0.24	0.40	0.32	0.19	0.19	0.19	0.19	0.19	12.0
8	5	8	8	8	2<3	50	0.28	0.37	0.35	0.19	-	-	-	-	12.0
8	5	8	8	8	3-5	45	0.23	0.29	0.30	0.19	-	-	-	-	12.0
8	5	8	8	8	10	45	0.23	0.31	0.32	0.19	-	-	-	-	12.0
8	5	8	8	8	15	41	0.30	0.41	0.42	0.19	-	-	-	-	12.0
8	5	8	8	8	20	41	0.39	0.52	0.54	0.19	-	-	-	-	12.0
8	6	8	8	8	<2	-	0.22	0.42	0.35	0.19	0.19	0.19	0.19	0.19	12.8
8	6	8	8	8	2<3	50	0.25	0.40	0.38	0.19	-	-	-	-	12.8
8	6	8	8	8	3-5	50	0.21	0.32	0.33	0.19	-	-	-	-	12.8
8	6	8	8	8	10	45	0.22	0.33	0.34	0.19	-	-	-	-	12.8
8	6	8	8	8	15	41	0.28	0.43	0.45	0.19	-	-	-	-	12.8
8	6	8	8	8	20	41	0.36	0.55	0.57	0.19	-	-	-	-	12.8
8	7	8	8	8	<2	-	0.20	0.44	0.37	0.19	0.19	0.19	0.19	0.19	13.6
8	7	8	8	8	2<3	55	0.23	0.43	0.41	0.19	-	-	-	-	13.6
8	7	8	8	8	3-5	55	0.19	0.34	0.35	0.19	-	-	-	-	13.6
8	7	8	8	8	10	50	0.20	0.34	0.36	0.19	-	-	-	-	13.6
8	7	8	8	8	15	41	0.26	0.45	0.47	0.19	-	-	-	-	13.6
8	7	8	8	8	20	41	0.33	0.57	0.60	0.19	-	-	-	-	13.6
8	8	8	8	8	<2	-	0.20	0.45	0.40	0.19	0.19	0.19	0.19	0.19	14.4
8	8	8	8	8	2<3	65	0.21	0.45	0.44	0.19	-	-	-	-	14.4
8	8	8	8	8	3-5	65	0.19	0.36	0.38	0.19	-	-	-	-	14.4
8	8	8	8	8	10	55	0.19	0.35	0.38	0.19	-	-	-	-	14.4
8	8	8	8	8	15	45	0.24	0.46	0.49	0.19	-	-	-	-	14.4
8	8	8	8	8	20	45	0.31	0.59	0.62	0.19	-	-	-	-	14.4

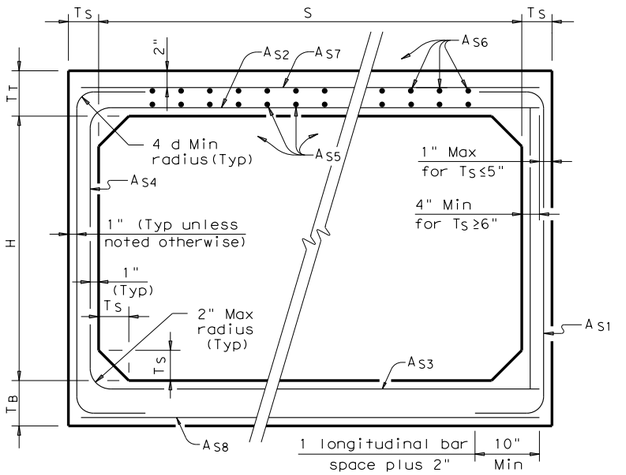
① For Box Length = 8'-0"

② A_{S1} thru A_{S4}, A_{S7} and A_{S8} are minimum required areas of reinforcement per linear foot of box length. A_{S6} and A_{S5} are minimum required areas of reinforcement per linear foot of box width.



CORNER OPTION "A" CORNER OPTION "B"

FILL HEIGHT 2 FT AND GREATER



CORNER OPTION "A" CORNER OPTION "B"

FILL HEIGHT LESS THAN 2 FT

SECTION A-A

(TOP AND BOTTOM SLAB JOINT REINFORCEMENT)

GENERAL NOTES:

Designs shown conform to ASTM C1577. Refer to ASTM C1577 for information or details not shown.

All concrete shall be Class "H" Concrete with a minimum compressive strength of 5,000 psi.

See SCP-MD standard sheet for miscellaneous details and notes not shown.

In lieu of furnishing the designs shown on this sheet, the contractor may furnish an alternate design that is equal to or exceeds the box design for the design fill height in the table. Shop plans for alternate designs shall be submitted in accordance with Item "Precast Concrete Structural Members (Fabrication)".

HL93 LOADING

Texas Department of Transportation | Bridge Division Standard

SINGLE BOX CULVERTS PRECAST

8'-0" SPAN

SCP-8

FILE: scp08sts.dgn	DN: GAF	CK: LMW	DW: BWH/TxDOT	CK: GAF
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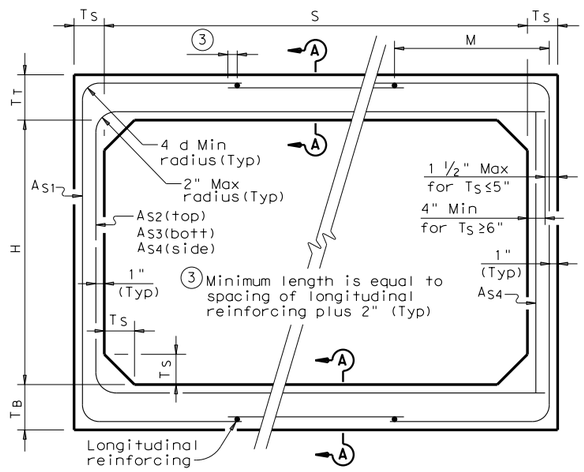
BOX DATA

SECTION DIMENSIONS					Fill Height	M (Min)	REINFORCING (in²/ft) ②								① Lift Weight (Tons)
S (ft)	H (ft)	T_T (in)	T_B (in)	T_S (in)	(ft)	(in)	A_{S1}	A_{S2}	A_{S3}	A_{S4}	A_{S5}	A_{S6}	A_{S7}	A_{S8}	
10	5	10	10	10	<2	-	0.30	0.36	0.30	0.24	0.24	0.24	0.24	0.24	17.5
10	5	10	10	10	2<3	58	0.35	0.39	0.34	0.24	-	-	-	-	17.5
10	5	10	10	10	3-5	53	0.28	0.31	0.30	0.24	-	-	-	-	17.5
10	5	10	10	10	10	52	0.33	0.35	0.36	0.24	-	-	-	-	17.5
10	5	10	10	10	15	47	0.42	0.46	0.47	0.24	-	-	-	-	17.5
10	5	10	10	10	20	47	0.55	0.59	0.61	0.24	-	-	-	-	17.5
10	5	10	10	10	25	47	0.68	0.73	0.75	0.24	-	-	-	-	17.5
10	6	10	10	10	<2	-	0.28	0.38	0.33	0.24	0.24	0.24	0.24	0.24	18.5
10	6	10	10	10	2<3	58	0.32	0.42	0.37	0.24	-	-	-	-	18.5
10	6	10	10	10	3-5	52	0.26	0.34	0.33	0.24	-	-	-	-	18.5
10	6	10	10	10	10	52	0.30	0.38	0.39	0.24	-	-	-	-	18.5
10	6	10	10	10	15	47	0.39	0.49	0.51	0.24	-	-	-	-	18.5
10	6	10	10	10	20	47	0.50	0.63	0.65	0.24	-	-	-	-	18.5
10	6	10	10	10	25	47	0.61	0.78	0.80	0.24	-	-	-	-	18.5
10	7	10	10	10	<2	-	0.25	0.40	0.36	0.24	0.24	0.24	0.24	0.24	19.5
10	7	10	10	10	2<3	58	0.30	0.45	0.40	0.24	-	-	-	-	19.5
10	7	10	10	10	3-5	58	0.24	0.36	0.35	0.24	-	-	-	-	19.5
10	7	10	10	10	10	52	0.28	0.40	0.42	0.24	-	-	-	-	19.5
10	7	10	10	10	15	47	0.36	0.52	0.54	0.24	-	-	-	-	19.5
10	7	10	10	10	20	47	0.46	0.67	0.69	0.24	-	-	-	-	19.5
10	7	10	10	10	25	47	0.56	0.82	0.85	0.24	-	-	-	-	19.5
10	8	10	10	10	<2	-	0.24	0.41	0.38	0.24	0.24	0.24	0.24	0.24	20.5
10	8	10	10	10	2<3	64	0.27	0.47	0.43	0.24	-	-	-	-	20.5
10	8	10	10	10	3-5	58	0.24	0.38	0.38	0.24	-	-	-	-	20.5
10	8	10	10	10	10	52	0.26	0.42	0.44	0.24	-	-	-	-	20.5
10	8	10	10	10	15	47	0.34	0.54	0.57	0.24	-	-	-	-	20.5
10	8	10	10	10	20	47	0.43	0.69	0.72	0.24	-	-	-	-	20.5
10	9	10	10	10	<2	-	0.24	0.42	0.41	0.24	0.24	0.24	0.24	0.24	21.5
10	9	10	10	10	2<3	70	0.26	0.50	0.46	0.24	-	-	-	-	21.5
10	9	10	10	10	3-5	64	0.24	0.40	0.40	0.24	-	-	-	-	21.5
10	9	10	10	10	10	58	0.25	0.43	0.46	0.24	-	-	-	-	21.5
10	9	10	10	10	15	52	0.32	0.56	0.59	0.24	-	-	-	-	21.5
10	9	10	10	10	20	47	0.40	0.71	0.75	0.24	-	-	-	-	21.5
10	10	10	10	10	<2	-	0.24	0.44	0.44	0.24	0.24	0.24	0.24	0.24	22.5
10	10	10	10	10	2<3	79	0.25	0.52	0.48	0.24	-	-	-	-	22.5
10	10	10	10	10	3-5	70	0.24	0.42	0.43	0.24	-	-	-	-	22.5
10	10	10	10	10	10	64	0.24	0.44	0.48	0.24	-	-	-	-	22.5
10	10	10	10	10	15	52	0.30	0.57	0.61	0.24	-	-	-	-	22.5
10	10	10	10	10	20	52	0.38	0.73	0.77	0.24	-	-	-	-	22.5

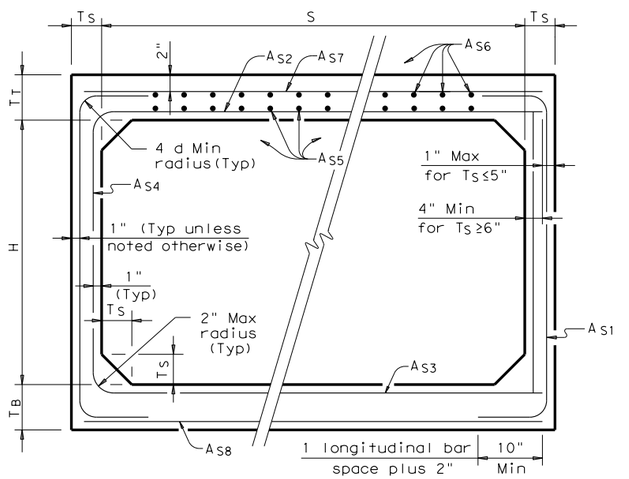
① For Box Length = 8'-0"

② A_{S1} thru A_{S4}, A_{S7} and A_{S8} are minimum required areas of reinforcement per linear foot of box length. A_{S6} and A_{S5} are minimum required areas of reinforcement per linear foot of box width.



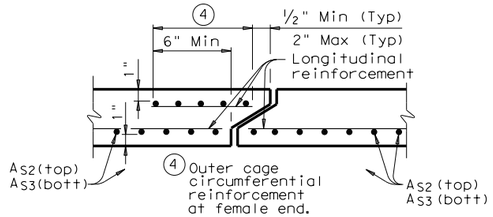
CORNER OPTION "A" CORNER OPTION "B"

FILL HEIGHT 2 FT AND GREATER



CORNER OPTION "A" CORNER OPTION "B"

FILL HEIGHT LESS THAN 2 FT



SECTION A-A

(TOP AND BOTTOM SLAB JOINT REINFORCEMENT)

GENERAL NOTES:

Designs shown conform to ASTM C1577. Refer to ASTM C1577 for information or details not shown.

All concrete shall be Class "H" Concrete with a minimum compressive strength of 5,000 psi.

See SCP-MD standard sheet for miscellaneous details and notes not shown.

In lieu of furnishing the designs shown on this sheet, the contractor may furnish an alternate design that is equal to or exceeds the box design for the design fill height in the table. Shop plans for alternate designs shall be submitted in accordance with Item "Precast Concrete Structural Members (Fabrication)".

HL93 LOADING

Texas Department of Transportation | Bridge Division Standard

SINGLE BOX CULVERTS PRECAST

10'-0" SPAN

SCP-10

FILE: scp10sts.dgn	DN: GAF	CK: LMW	DW: BWH/TxDOT	CK: GAF
©TxDOT February 2010 REVISIONS	CONT	SECT	JOB	HIGHWAY
	DIST	COUNTY		SHEET NO.

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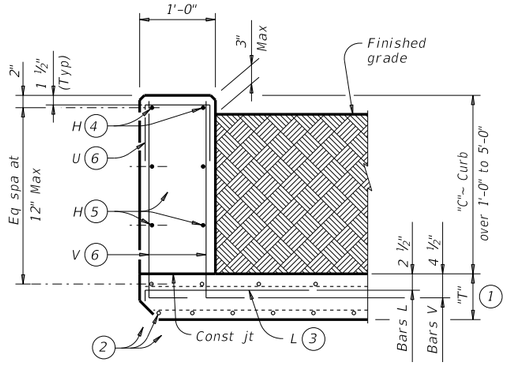
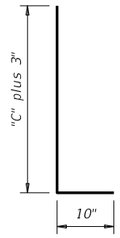
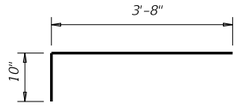


TYPICAL SECTION

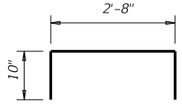
Used for curbs over 1'-0" to 5'-0"



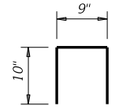
BARS V (#5) (6)
Spaced at 12" Max



BARS L (#5) (3)
Spaced at 12" Max



OPTIONAL BARS L (#5) (3) (7)
Spaced at 12" Max



BARS U (#4) (6)
Spaced at 12" Max

(1) "T" is equal to the culvert top slab thickness. For precast boxes with slabs less than 7" thick, see SCP-MD standard for additional details.

(2) Adjust normal culvert slab bars as necessary to clear obstructions.

(3) Place bars L as shown. Tilt hook as necessary to maintain cover.

(4) Place normal culvert curb bars H(#4) as shown. Adjust as necessary to clear obstructions.

(5) Additional bars H(#4) as required to maintain 12" Max spacing.

(6) Replace normal culvert curb bars K with one bar U and two bars V as shown spaced at 12" Max. Adjust length of bars V as necessary to maintain clear cover.

(7) Optional bars L are to be used only for precast box culverts with 3'-0" closure pour.

(8) Quantities shown are for Contractor's information only. Quantities are per linear foot of curb length. The value in table can be interpolated for intermediate values of curb height, "C". Quantity includes bars K (when applicable).

TABLE OF ESTIMATED CURB QUANTITIES (8)

Curb Height "C"	Conc (CY/LF)	Reinf Steel (Lb/LF)
1'-0"	0.037	8.9
1'-6"	0.056	14.3
2'-0"	0.074	15.4
2'-6"	0.093	17.7
3'-0"	0.111	18.8
3'-6"	0.130	21.2
4'-0"	0.148	22.2
4'-6"	0.167	24.6
5'-0"	0.185	25.6

CONSTRUCTION NOTES:

Adjust reinforcing steel as necessary to provide 1 ¼" cover.

For vehicle safety, top of the curb must not project more than 3" above the finished grade.

MATERIAL NOTES:

Provide Grade 60 reinforcing steel.

Provide Class "C" concrete ($f'c$ = 3,600 psi) minimum for curbs.

GENERAL NOTES:

Designed according to AASHTO LRFD Bridge Design Specifications.

These extended curb details have sufficient strength to allow for future retrofit of Type T631 or T631LS railing. These details are suitable for use with PR1, PR2 and PR3 type rails. These details are not suitable for the mounting of other rail types. For new construction using T631 or T631LS railing, use the T631-CM standard.

This Curb is considered as part of the Box Culvert for payment.

Cover dimensions are clear dimensions, unless noted otherwise.

Reinforcing bar dimensions shown are out-to-out of bar.

Texas Department of Transportation

Bridge Division Standard

EXTENDED CURB DETAILS

FOR BOX CULVERTS WITH CURBS OVER 1'-0" TO 5'-0" TALL

ECD

FILE: ecdstde1.dgn	DN: GAF	CK: TxDOT	DW: TxDOT	CK: GAF
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REVISIONS				
03-16: General Notes added T631-CM.	DIST	COUNTY		SHEET NO.

Culvert Station and/or Creek name followed by applicable end (Lt, Rt or Both)	Description of Box Culvert No. Spans ~ Span X Height	Max Fill Height (Ft)	Applicable Box Culvert Standard (4)	Applicable Wingwall or End Treatment Standard	Skew Angle (0°, 15°, 30° or 45°)	Side Slope or Channel Slope Ratio (SL:1)	T Culvert Top Slab Thickness (In)	U Culvert Wall Thickness (In)	C Estimated Curb Height (Ft)	Hw (1) Height of Wingwall (Ft)	A Curb to End of Wingwall (Ft)	B Offset of End of Wingwall (Ft)	Lw Length of Longest Wingwall (Ft)	Ltw Culvert Toewall Length (Ft)	Atw Anchor Toewall Length (Ft)	Riprap Apron (C.Y.)	Class "C" Conc (Curb) (2) (C.Y.)	Class "C" Conc (Wingwall) (3) (C.Y.)	Total Wingwall Area (S.F.)
CR 484 (Both) (C-2725)	2~10′ x 8′	2.6′	SCP-10	PW-1	0°	4:1	10"	10"	1.521′	10.354′	N/A	N/A	41.417′	23.833′	N/A	0.0	1.3	53.9	858
CR 481 (Lt) (C-2762)	3~8′ x 6′	1.7′	SCP-8	FW-S	15°	2:1	8"	8"	1.354′	7.771′	14.875′	8.588′	17.176′	N/A	N/A	7.5	1.5	7.8	130
CR 481 (Rt) (C-2762)	3~8′ x 6′	1.7′	SCP-8	PW-1	15°	4:1	8"	8"	1.354′	8.021′	N/A	N/A	33.215′	30.023	N/A	0.0	1.5	36.1	533

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NOTES:

Skew Angle = 0° for SW-0, FW-0, SETB-CD, SETB-SW-0, and SETB-FW-0 standards.
30° Maximum for Safety End Treatment

SL:1 = Horizontal:1 Vertical
Side Slope at culvert for Flared or Straight Wingwalls. Channel Slope for Parallel Wingwalls.
Slope shall be 3:1 or flatter for Safety End Treatments.

T = Box Culvert Top Slab Thickness. Dimension can be found on the applicable Box Culvert Standard.

U = Box Culvert Wall Thickness. Dimension can be found on the applicable Box Culvert Standard.

C = Curb Height.

See applicable wing or end treatment standards for calculations of Hw, A, B, Lw, Ltw, Atw, and Total Wingwall Area.
Hw = Height of Wingwall.
A = Distance from Face of Curb to End of Wingwall (Not applicable to Parallel or Straight Wingwalls).
B = Offset of End of Wingwall (Not applicable to Parallel or Straight Wingwalls).
Lw = Length of Longest Wingwall.
Ltw = Length of Culvert Toewall (Not applicable when using Riprap Apron).
Atw = Length of Anchor Toewall (Applicable to Safety End Treatment only).
Total Wingwall Area = Wingwall area in S.F. for two wingwalls (one structure end) if Lt or Rt.
Area for four wingwalls (two structure ends) if Both.

(1) The wall heights shown will be rounded to the nearest Foot for bidding purposes.

(2) Concrete volume shown is for box culvert curb only. For curbs using the RAC standard, quantities shown must be increased by a factor of 2. If Class "S" concrete is required for the top slab of the culvert, the curb concrete shall also be Class "S". Curb concrete is considered part of the Box Culvert for payment.

(3) Concrete volume shown is total of wing, footing, culvert toewall (if any), anchor toewall (if any) and wingwall toewall. Riprap apron, culvert and curb quantities are not included.

(4) Regardless of the type of culvert shown on this sheet, the Contractor shall have the option of furnishing cast-in-place or precast culverts unless otherwise shown elsewhere on the plans. If the Contractor elects to provide culverts of a different type than those shown on this sheet, it shall be the Contractor's responsibility to make the necessary adjustments to the dimensions and quantities shown.

SPECIAL NOTE:

This sheet is a supplement to the Box Culvert standards. It is to be filled out by the culvert specifier and provides dimensions for the construction of the Box Culvert Wingwalls and Safety End Treatments.

An Excel 97 spreadsheet to assist in completing this table can be downloaded from the Bridge Standards (English) web page on the TxDOT web site. The completed sheet shall be signed, sealed, and dated by a licensed Professional Engineer.

Texas Department of Transportation

Bridge Division Standard

BOX CULVERT SUPPLEMENT
WINGS AND END TREATMENTS

BCS

FILE: bcsstde1.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: GAF
©TxDOT February 2010	CONT	SECT	JOB	HIGHWAY
REVISIONS	----	--	----	N/A
	DIST	COUNTY		SHEET NO.
	6	WILLIAMSON		63

Bid 16111-261

Williamson County, Texas

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TABLE OF DIMENSIONS & REINFORCING STEEL
(Wings for One Structure End)

Dimensions					Variable Reinforcing				Estimated Quantities (3) per ft of wing length (2~Wings)	
					Bars J1		Bars J2			
Maximum Wingwall Height Hw	W	X	Y	Z	Size	Spa	Size	Spa	Reinf (Lb/Ft)	Conc (CY/Ft)
2'-6"	2'- 5"	1'- 0"	9"	7"	#4	1'-0"	#4	1'-0"	33.73	0.248
3'-0"	2'- 5"	1'- 0"	9"	7"	#4	1'-0"	#4	1'-0"	37.07	0.261
3'-6"	2'- 5"	1'- 0"	9"	7"	#4	1'-0"	#4	1'-0"	37.74	0.273
4'-0"	2'- 5"	1'- 0"	9"	7"	#4	1'-0"	#4	1'-0"	38.41	0.285
4'-6"	3'- 2"	1'- 6"	1'- 0"	7"	#4	1'-0"	#4	1'-0"	41.75	0.330
5'-0"	3'- 2"	1'- 6"	1'- 0"	7"	#4	1'-0"	#4	1'-0"	45.09	0.343
5'-6"	3'- 2"	1'- 6"	1'- 0"	7"	#4	1'-0"	#4	1'-0"	45.75	0.355
6'-0"	3'- 2"	1'- 6"	1'- 0"	7"	#4	1'-0"	#4	1'-0"	46.42	0.367
7'-0"	3'- 8"	1'- 9"	1'- 3"	7"	#4	1'-0"	#4	1'-0"	52.77	0.414
8'-0"	4'- 2"	2'- 0"	1'- 6"	8"	#5	1'-0"	#4	1'-0"	60.19	0.486
9'-0"	4'- 8"	2'- 3"	1'- 9"	8"	#4	6"	#4	6"	81.49	0.535
10'-0"	5'- 2"	2'- 6"	2'- 0"	8"	#5	6"	#4	6"	97.25	0.584
11'-0"	5'- 8"	2'- 9"	2'- 3"	8"	#6	6"	#5	6"	133.65	0.634
12'-0"	6'- 2"	3'- 0"	2'- 6"	9"	#7	6"	#5	6"	162.29	0.721
13'-0"	6'- 8"	3'- 3"	2'- 9"	11"	#7	6"	#5	6"	178.80	0.856
14'-0"	7'- 2"	3'- 6"	3'- 0"	1'- 0"	#8	6"	#5	6"	216.78	0.959
15'-0"	7'- 8"	4'- 0"	3'- 0"	1'- 1"	#9	6"	#6	6"	283.06	1.068
16'-0"	8'- 2"	4'- 6"	3'- 0"	1'- 3"	#9	6"	#6	6"	297.02	1.234

TABLE OF WINGWALL REINFORCING (2~Wings)

Bar	Size	No.	Spa
DL	#5	~	1'-0"
DS	#5	~	1'-0"
E	#4	~	1'-0"
F	#4	~	1'-0"
G	#6	4	~
M	#4	4	~
P	#4	~	1'-0"
RS	#5	3	~
RL	#5	3	~
V	#4	~	1'-0"

TABLE OF ESTIMATED CULVERT TOEWALL QUANTITIES

Bar	Size	No.	Spa
L	#4	~	1'-6"
Q	#4	1	~
Reinf (LB/Ft)			2.45
Conc (CY/Ft)			0.037

WING DIMENSION CALCULATIONS:

Formulas: (All values are in Feet)

Hw = H + T + C - 0.250'

A = (Hw - 0.333') (SL)

B = (A) [Tangent (θ + 15°)]

Lw = (A) ÷ [Cosine (θ + 15°)]

For Cast-in-place culverts:

Ltw = [(N) (S) + (N+1) (U)] ÷ (Cosine θ)

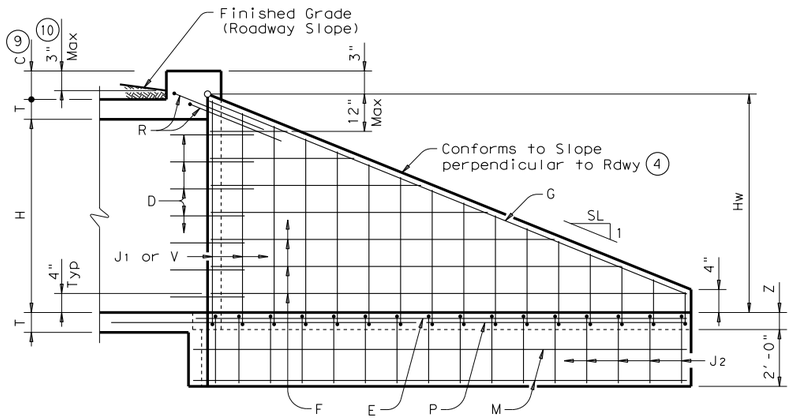
For Precast culverts:

Ltw = [(N) (2U+S) + (N-1) (0.500')] ÷ (Cosine θ)

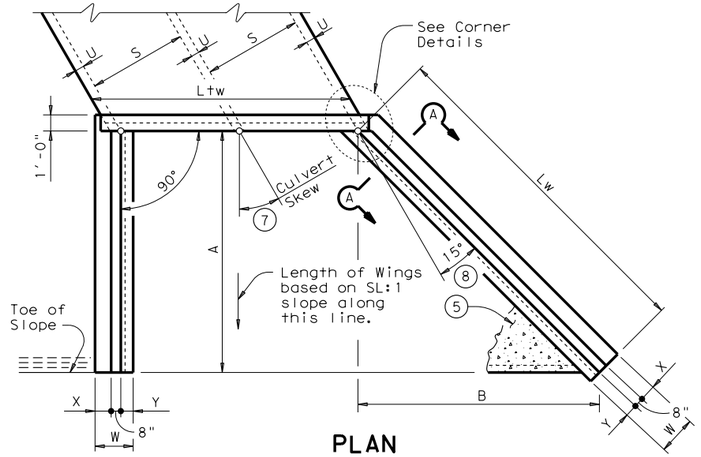
Total Wingwall Area (Two Wings ~ S.F.) =
(0.5) (Hw + 0.333') (Lw + A)

Hw = Height of Wingwall
SL:1 = Side Slope Ratio (Horizontal:1 Vertical)
A = Length of Short Wingwall
Lw = Length of Long Wingwall
Ltw = Culvert Toewall Length
N = Number of Culvert Spans
θ = Culvert Skew

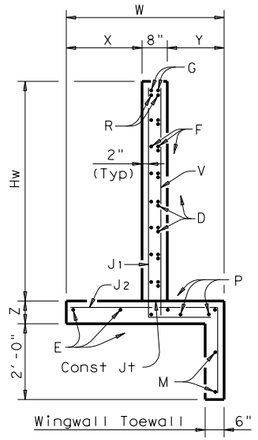
See applicable box culvert standard for H, S, T, and U values.



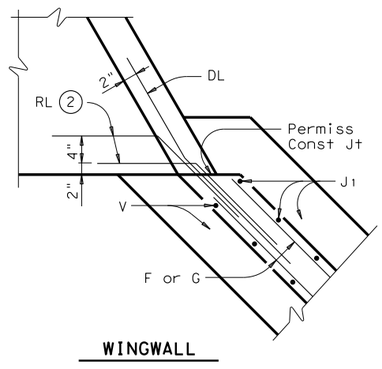
INSIDE ELEVATION
(Showing reinforcing. Culvert and Culvert Toewall reinforcing not shown for clarity.)



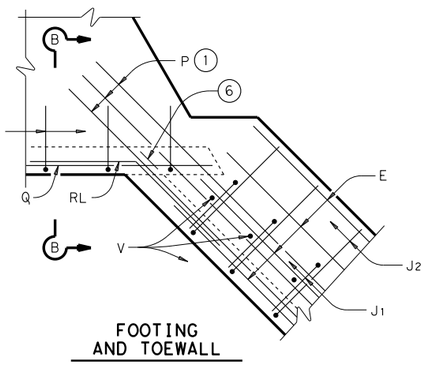
PLAN
(Showing dimensions and 30° Skew.)



SECTION A-A

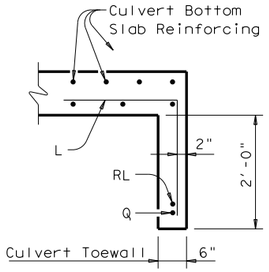


WINGWALL

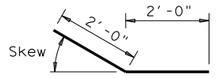


FOOTING AND TOEWALL

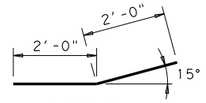
CORNER DETAILS
(Culvert and Culvert Toewall reinforcing not shown for clarity.)



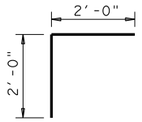
SECTION B-B (5)



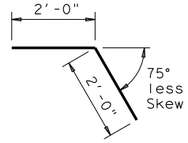
BARS DS
(Short Wing)



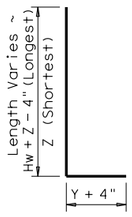
BARS DL
(Long Wing)



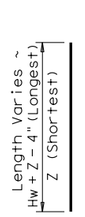
BARS RS
(Short Wing)



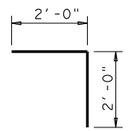
BARS RL
(Long Wing)



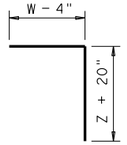
BARS J1



BARS V



BARS L



BARS J2

1. Extend Bars P 3'-0" minimum into bottom slab of Box Culvert.
2. Adjust to fit as necessary to maintain 1 ¼" clear cover and 4" minimum between bars.
3. Quantities shown are based on an average wing height for two wings (one structure end). To determine total quantities for two wings multiply the tabulated values by 0.5 x (A+Lw).
4. Recommended values of Slope are: 2:1, 3:1, 4:1, & 6:1.
5. When shown elsewhere on the plans, a 5" deep concrete riprap shall be constructed. Payment for riprap shall be as required by Item 432, "Riprap". Unless otherwise shown on the plans or directed by the Engineer, the riprap shall have a 6" wide by 1'-6" deep reinforced concrete toewall along all edges adjacent to natural ground; the toewall shall be reinforced by extending typical riprap reinforcing into the toewall; construction joints or grooved joints, oriented in the direction of flow, shall extend across the full distance of the riprap, at intervals of approximately 20'. When such riprap is provided, the culvert toewall shown in SECTION B-B will not be required.
6. At Contractor's option, Culvert Toewall may be ended flush with Wingwall Toewall. Adjust reinforcing from that shown as necessary.
7. Applicable values of of Skew are: 15°, 30°, and 45°.
8. Typical wingwall angle for all skews.
9. 0" min to 5'-0" max. Estimated curb heights are shown elsewhere in the plans. For structures with pedestrian rail, bicycle rail or curbs taller than 1'-0", refer to ECD standard. For structures with T6 bridge rail, refer to T6-CM standard. For structures with traffic rail, other than T6, refer to RAC standard.
10. For vehicle safety, curb heights and wall heights shall be reduced, if necessary, to provide a maximum 3" projection above finished grade. No changes will be made in quantities and no additional compensation will be allowed for this work.

GENERAL NOTES:

Designed according to AASHTO LRFD Specifications.

All reinforcing steel shall be Grade 60.

Synthetic fibers listed on the "Fibers for Concrete" Material Producer List (MPL) may be used in lieu of steel reinforcing in riprap concrete unless noted otherwise.

All concrete shall be Class "C" and shall have a minimum compressive strength of 3600 psi.

All reinforcing bars shall be adjusted to provide a minimum of 1 ¼" clear cover.

When structure is founded on solid rock, depth of toewalls for culverts and wingwalls may be reduced or eliminated as directed by the Engineer.

See BCS sheet for additional dimensions and information.

The quantities for concrete and reinforcing steel resulting from the formulas given on this sheet are for Contractor's information only.

Texas Department of Transportation | Bridge Division Standard

CONCRETE WINGWALLS
WITH FLARED WINGS FOR SKEWED BOX CULVERTS

FW-S

FILE: fw-sstde.dgn	DN: GAF	CK: CAT	DW: TxDOT	CK: GAF
©TxDOT February 2010	CONT	SECT	JOB	HIGHWAY
REVISIONS				
11-10: Add note for synthetic fibers.	DIST	COUNTY		SHEET NO.

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TABLE OF DIMENSIONS & REINFORCING STEEL
(Wings for One Structure End)

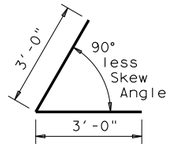
Maximum Wingwall Height Hw	W	X	Y	Z	Variable Reinforcing Bars J1 Size	Bars J1 Spa	Bars J2 Size	Bars J2 Spa	Estimated ④ Quantities per ft of wing (2~Wings) Reinf (Lb/Ft)	Conc (CY/Ft)	Estimated Quantities per ft of Toewall (1~Toewall) Reinf (Lb/Ft)	Conc (CY/Ft)
2'-6"	2'-10"	10"	1'- 0"	7"	#4	1'-0"	#4	1'-0"	48.64	0.406	6.85	0.071
2'-9"	2'-10"	10"	1'- 0"	7"	#4	1'-0"	#4	1'-0"	49.31	0.424	6.85	0.071
3'-0"	2'-10"	10"	1'- 0"	7"	#4	1'-0"	#4	1'-0"	49.98	0.444	6.85	0.071
3'-3"	2'-10"	10"	1'- 0"	7"	#4	1'-0"	#4	1'-0"	53.32	0.462	6.85	0.071
3'-6"	2'-10"	10"	1'- 0"	7"	#4	1'-0"	#4	1'-0"	53.98	0.480	6.85	0.071
4'-0"	3'- 2"	1'- 2"	1'- 0"	7"	#4	1'-0"	#4	1'-0"	55.77	0.532	6.85	0.071
4'-6"	3'- 2"	1'- 2"	1'- 0"	7"	#4	1'-0"	#4	1'-0"	59.77	0.568	6.85	0.071
5'-0"	3'- 9"	1'- 7"	1'- 2"	7"	#4	1'-0"	#4	1'-0"	63.45	0.632	6.96	0.075
5'-6"	3'- 9"	1'- 7"	1'- 2"	7"	#4	1'-0"	#4	1'-0"	67.46	0.668	6.96	0.075
6'-0"	4'- 4"	2'- 0"	1'- 4"	7"	#5	1'-0"	#5	1'-0"	80.67	0.730	7.07	0.078
6'-6"	4'- 4"	2'- 0"	1'- 4"	7"	#5	1'-0"	#5	1'-0"	85.05	0.768	7.07	0.078
7'-0"	5'- 0"	2'- 3"	1'- 9"	8"	#5	1'-0"	#5	1'-0"	92.15	0.864	8.07	0.093
7'-6"	5'- 0"	2'- 3"	1'- 9"	8"	#5	1'-0"	#5	1'-0"	96.54	0.902	8.07	0.093
8'-0"	5'- 6"	2'- 8"	1'-10"	8"	#5	6"	#5	6"	139.04	0.962	8.13	0.095
8'-6"	5'- 6"	2'- 8"	1'-10"	8"	#5	6"	#5	6"	144.47	1.000	8.13	0.095
9'-6"	6'- 0"	2'-10"	2'- 2"	9"	#5	6"	#5	6"	156.93	1.136	8.41	0.110
10'-6"	6'- 5"	3'- 0"	2'- 5"	9"	#6	6"	#5	6"	196.27	1.234	8.57	0.117
11'-6"	7'- 2"	3'- 6"	2'- 8"	11"	#6	6"	#6	6"	230.13	1.438	9.52	0.140
12'-6"	7'- 8"	3'- 9"	2'-11"	1'- 0"	#7	6"	#6	6"	283.41	1.592	9.74	0.157
13'-6"	8'- 2"	4'- 0"	3'- 2"	1'- 2"	#8	6"	#6	6"	348.72	1.804	10.02	0.186
14'-6"	8'-10"	4'- 5"	3'- 5"	1'- 4"	#9	6"	#6	6"	432.94	2.046	10.30	0.218
15'-6"	9'- 6"	4'-10"	3'- 8"	1'- 6"	#9	6"	#7	6"	489.52	2.302	11.24	0.253
16'-0"	9'-11"	5'- 0"	3'-11"	1'- 7"	#9	6"	#7	6"	505.72	2.448	11.47	0.279

TABLE OF WINGWALL REINFORCING (2~Wings)

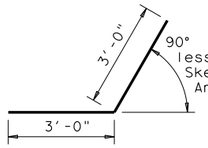
Bar	Size	No.	Spa
D1	#6	~	1'-0"
D2	#6	~	1'-0"
E1	#4	~	1'-0"
F	#4	~	1'-0"
G	#6	~	8"
M1	#4	4	~
P	#4	~	1'-0"
V	#4	~	1'-0"

TABLE OF TOEWALL REINFORCING

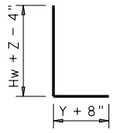
Bar	Size	No	Spa
J3	#4	~	1'-0"
M2	#4	2	~
E2	#4	~	1'-0"



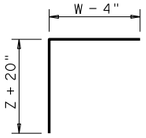
BARS D1



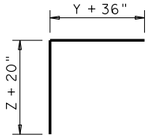
BARS D2



BARS J1



BARS J2



BARS J3

BARS V

WING DIMENSION CALCULATIONS:

Formulas: (All values are in Feet)

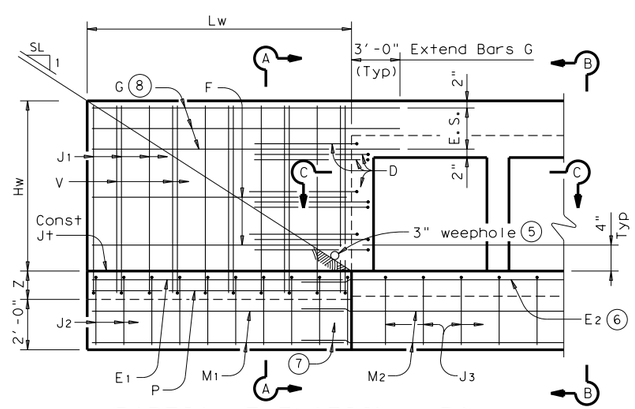
Hw = H + T + C
Lw = (Hw) (SL) ÷ Cosine θ for Ty PW-1
= (Hw - 1') (SL) ÷ Cosine θ for Ty PW-2 and Hw ≥ 4'
= (Hw - 0.5') (SL) ÷ Cosine θ for Ty PW-2 and Hw < 4'

For Cast-in-place culverts:
Ltw = [(N) (S) + (N + 1) (U)] ÷ Cosine θ

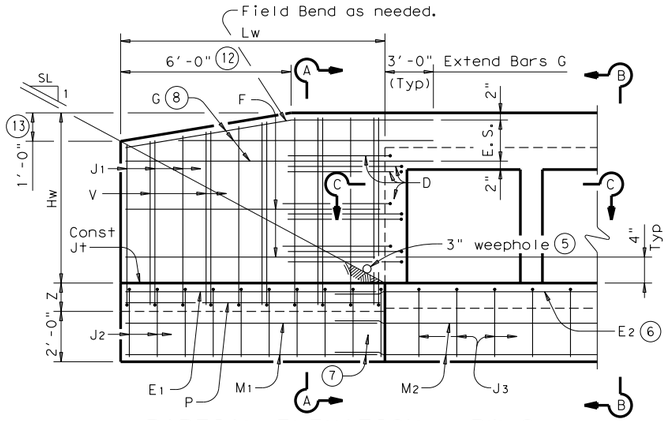
For Precast culverts:
Ltw = [(N) (2 U + S) + (N - 1) (0.5')] ÷ Cosine θ
Total Wingwall Area (Two Wings ~ SF)
= (2)(Hw)(Lw) for Ty PW-1
= (2)(Hw)(Lw) - 6 SF for Ty PW-2 and Hw ≥ 4'
= (2)(Hw)(Lw) - 1.5 SF for Ty PW-2 and Hw < 4'

Hw = Height of Wingwall
Lw = Length of Wingwall
Ltw = Culvert Toewall Length
N = Number of Culvert Spans
SL:1 = Channel Slope ratio. (Horizontal: 1 Vertical, Usual value is 2:1)
θ = Culvert Skew

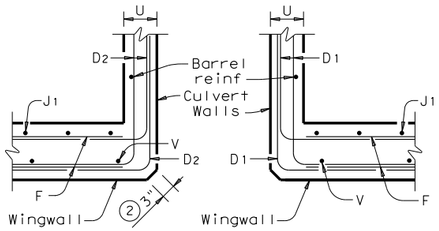
See applicable box culvert standard for S, H, T and U values.



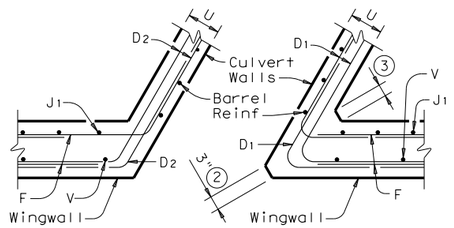
PARTIAL ELEVATION - PW-1



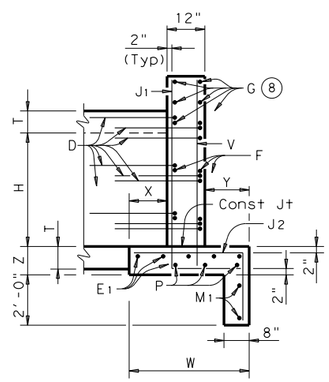
PARTIAL ELEVATION - PW-2



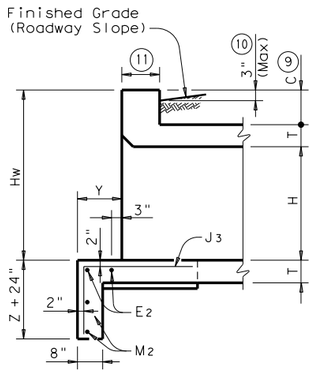
SECTION C-C



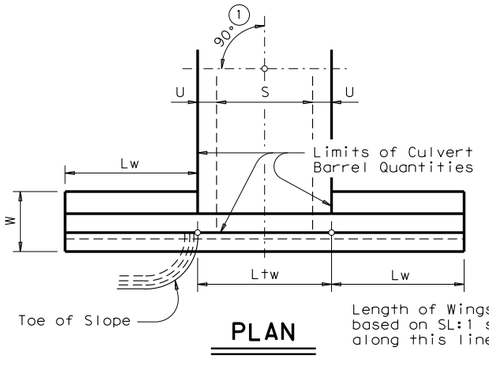
SECTION C-C



SECTION A-A
(Showing Wing Reinf)

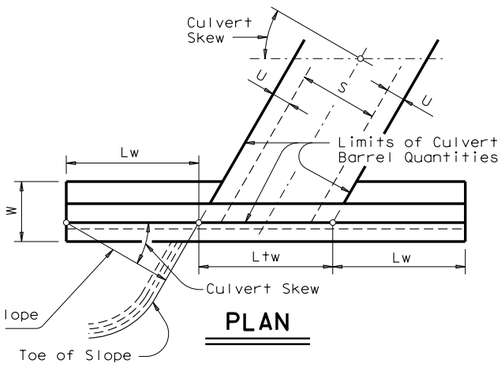


SECTION B-B
(Showing Wing Reinf)



PLAN

DETAILS FOR NON-SKEWED BOX CULVERTS



PLAN

DETAILS FOR SKEWED BOX CULVERTS
(Showing 30° Skew)

1. Skew Angle = 0°
2. At discharge end, chamfer may be ¾".
3. For 15° Skew ~ 1"
   For 30° Skew ~ 2"
   For 45° Skew ~ 3"
4. Quantities shown are for two Type PW-1 wings. Adjust concrete volume for Type PW-2 wings. To determine estimated quantities for two wings, multiply the tabulated values by Lw. Quantities shown do not include weight of Bars D.
5. Provide weepholes for Hw = 5'-0" and greater. Fill around weepholes with coarse gravel.
6. Extend Bars E2 1'-6" minimum into the wingwall footing.
7. Lap Bars M1 1'-6" minimum with Bars M2.
8. Bars G equally spaced at 8" maximum, place as shown. Provide at least two pair Bars G per wing.
9. 0" min to 5'-0" max. Estimated curb heights are shown elsewhere in the plans. For structures with pedestrian rail, bicycle rail or curbs taller than 1'-0", refer to ECD standard. For structures with T6 bridge rail, refer to T6-CM standard. For structures with traffic rail, other than T6, refer to RAC standard.
10. For vehicle safety, the following requirements must be met:
    - For structures without bridge rail, curbs cannot project more than 3" above finished grade.
    - For structures with bridge rail, build curbs flush with finished grade.

    Reduce curb heights, if necessary, to meet the above requirements. No changes will be made in quantities and no additional compensation will be allowed for this work.
11. 1'-0" typical. 2'-0" typical when RAC standard is referenced elsewhere in the plans.
12. 3'-0" for Hw < 4'.
13. 6" for Hw < 4'.

GENERAL NOTES:

Designed in accordance with AASHTO LRFD Bridge Design Specifications.

Provide Class "C" Concrete (f'c = 3,600 psi Min) and Grade 60 reinforcing steel.

Provide 1 ¼" Min clear cover to reinforcing steel.

Depth of toewalls for wingwalls and culverts may be reduced or eliminated when founded on solid rock, when directed by the Engineer.

See BCS sheet for wingwall type and additional dimensions and information.

The quantities for concrete and reinforcing steel resulting from the formulas given on this sheet are for the Contractor's information only.

DESIGNER NOTES:

Type PW-1 can be used for all applications and must be used if railing is to be mounted to the wingwall.

Type PW-2 can only be used for applications without a railing mounted to the wingwall.

Texas Department of Transportation — Bridge Division Standard

CONCRETE WINGWALLS
WITH PARALLEL WINGS FOR BOX CULVERTS
TYPES PW-1 AND PW-2

PW

FILE: pwstde01.dgn	DN: GAF	CK: CAT	DW: TxDOT	CK: GAF
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REVISIONS				
11-10: Reinforcing Quantities. 01-12: PW-1 & PW-2.	DIST	COUNTY		SHEET NO.

DATE:
FILE:

TABLE OF VARIABLE DIMENSIONS AND QUANTITIES FOR ONE HEADWALL (4)

SLOPE	DESIGN	SIZE OF PIPE ARCH Span	SIZE OF PIPE ARCH Rise	Values for one Pipe W	Values for one Pipe Reinf (Lbs) (1)	Values for one Pipe Conc (CY) (2)	Values to be added for each addt'l Pipe W	Values to be added for each addt'l Pipe Reinf (Lbs) (1)	Values to be added for each addt'l Pipe Conc (CY) (2)
2:1	1	17"	13"	9'- 9"	130	1.1	2'- 5"	28	0.3
	2	21"	15"	10'- 9"	139	1.3	2'-11"	33	0.3
	3	28"	20"	13'- 0"	184	1.8	3'- 9"	43	0.5
	4	35"	24"	14'-11"	249	2.2	4'- 7"	50	0.6
	5	42"	29"	17'- 2"	311	3.2	5'- 5"	69	0.9
	6	49"	33"	19'- 1"	342	3.8	6'- 3"	77	1.1
	7	57"	38"	21'- 5"	438	4.7	7'- 2"	86	1.4
	8	64"	43"	23'- 8"	508	5.6	8'- 2"	110	1.6
	9	71"	47"	25'- 7"	577	6.5	9'- 1"	120	2.0
3:1	1	17"	13"	13'-11"	182	1.6	2'- 5"	28	0.3
	2	21"	15"	15'- 3"	196	1.8	2'-11"	33	0.3
	3	28"	20"	18'- 4"	270	2.6	3'- 9"	42	0.5
	4	35"	24"	20'-11"	356	3.2	4'- 7"	50	0.6
	5	42"	29"	24'- 0"	434	4.5	5'- 5"	70	0.9
	6	49"	33"	26'- 7"	499	5.4	6'- 3"	77	1.1
	7	57"	38"	29'- 9"	628	6.7	7'- 2"	87	1.4
	8	64"	43"	32'-10"	715	7.9	8'- 2"	111	1.6
	9	71"	47"	35'- 5"	798	9.2	9'- 1"	120	2.0
4:1	1	17"	13"	18'- 1"	236	2.1	2'- 5"	28	0.3
	2	21"	15"	19'- 9"	268	2.4	2'-11"	33	0.3
	3	28"	20"	23'- 8"	336	3.3	3'- 9"	42	0.5
	4	35"	24"	26'-11"	460	4.2	4'- 7"	50	0.6
	5	42"	29"	30'-10"	557	5.8	5'- 5"	69	0.9
	6	49"	33"	34'- 1"	653	6.9	6'- 3"	78	1.1
	7	57"	38"	38'- 1"	819	8.6	7'- 2"	87	1.4
	8	64"	43"	42'- 0"	950	10.2	8'- 2"	111	1.7
	9	71"	47"	45'- 3"	1053	11.9	9'- 1"	120	2.0
6:1	1	17"	13"	26'- 5"	343	3.1	2'- 5"	29	0.3
	2	21"	15"	28'- 9"	381	3.5	2'-11"	33	0.3
	3	28"	20"	34'- 4"	504	4.9	3'- 9"	42	0.5
	4	35"	24"	38'-11"	673	6.1	4'- 7"	50	0.6
	5	42"	29"	44'- 6"	823	8.5	5'- 5"	70	0.9
	6	49"	33"	49'- 1"	945	10.1	6'- 3"	78	1.1
	7	57"	38"	54'- 9"	1227	12.5	7'- 2"	87	1.4
	8	64"	43"	60'- 4"	1399	14.8	8'- 2"	110	1.7
	9	71"	47"	64'-11"	1563	17.3	9'- 1"	119	2.0

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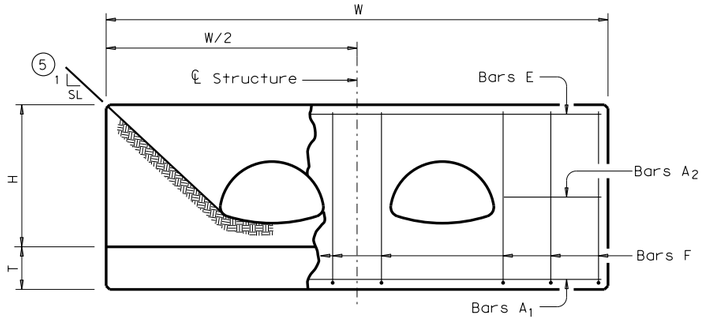
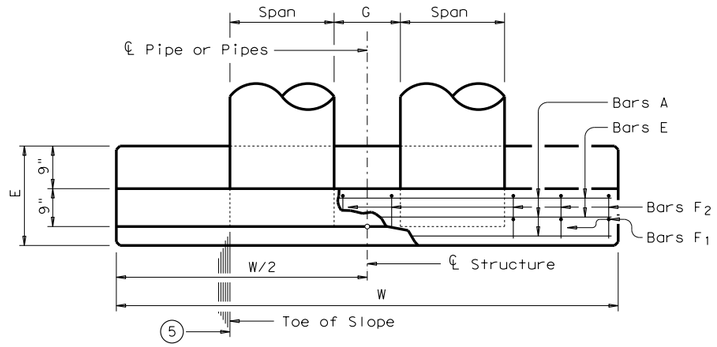
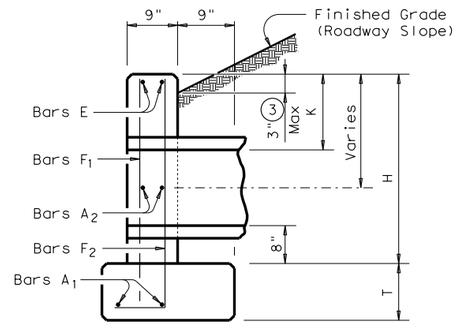
DATE:
FILE:



ELEVATION



PLAN



℄ SECTION

(1) Total quantities include one 15" lap for all bars over 60 ft in length.

(2) Quantities shown are for metal pipe and will decrease slightly for concrete pipe installations.

(3) For vehicle safety, curbs shall project no more than 3" above finished grade. Curb heights shall be reduced, if necessary, to meet these requirements. No changes will be made in quantities and no additional compensation will be allowed for this work.

(4) Quantities shown are for one structure end only (one headwall).

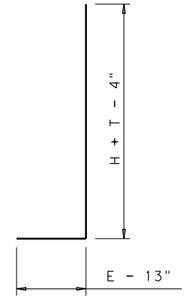
(5) Indicated slope is perpendicular to centerline Pipe or Pipes.

TABLE OF DIMENSIONS NOT VARIED WITH SLOPE

DESIGN	SIZE OF PIPE ARCH Span	SIZE OF PIPE ARCH Rise	G	K	H	T	E
1	17"	13"	1'- 0"	1'- 0"	2'- 7"	10"	1'- 6"
2	21"	15"	1'- 2"	1'- 0"	2'- 9"	10"	1'- 6"
3	28"	20"	1'- 5"	1'- 0"	3'- 2"	10"	1'-10"
4	35"	24"	1'- 8"	1'- 0"	3'- 6"	10"	2'- 0"
5	42"	29"	1'-11"	1'- 0"	3'-11"	1'- 0"	2'- 4"
6	49"	33"	2'- 2"	1'- 0"	4'- 3"	1'- 0"	2'- 6"
7	57"	38"	2'- 5"	1'- 0"	4'- 8"	1'- 0"	2'-10"
8	64"	43"	2'-10"	1'- 0"	5'- 1"	1'- 0"	3'- 0"
9	71"	47"	3'- 2"	1'- 0"	5'- 5"	1'- 0"	3'- 4"

TABLE OF REINFORCING STEEL (4)

Bar	Size	Spa	No.
A1	# 5	~	2
A2	# 5	1'-6"	~
E	# 5	~	2
F	# 5	1'-0"	~



BARS F2

GENERAL NOTES:

Designed according to AASHTO LRFD Specifications.

Reinforcing steel shall be placed with the center of the outside layer of bars 2" from the surface of the concrete.

All reinforcing steel shall be Grade 60.

All concrete shall be Class "C" and shall have a minimum compressive strength of 3600 psi.

No bridge rails of any type may be mounted directly to these culvert headwalls.

Texas Department of Transportation

Bridge Division Standard

CONCRETE HEADWALLS
WITH PARALLEL WINGS FOR NON-SKEWED ARCH PIPE CULVERTS

CH-PW-A-0

FILE: chpa0ste.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: GAF
©TxDOT February 2010	CONT	SECT	JOB	HIGHWAY
REVISIONS 11-10: Removed Bars T.	DIST	COUNTY		SHEET NO.

TABLE OF VARIABLE DIMENSIONS AND QUANTITIES FOR ONE HEADWALL (4)

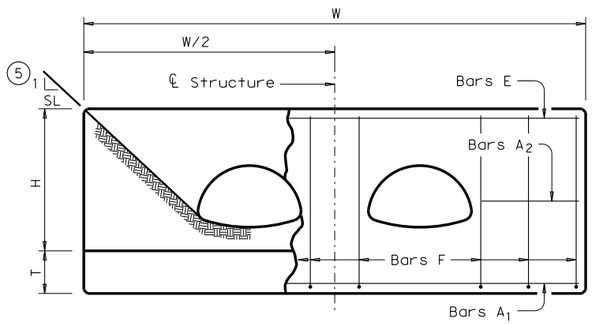
SLOPE	DESIGN	SIZE OF PIPE ARCH		15 Degrees					30 Degrees					45 Degrees				
				Values for one Pipe			Values to be added for each addt'l Pipe		Values for one Pipe			Values to be added for each addt'l Pipe		Values for one Pipe			Values to be added for each addt'l Pipe	
		Span	Rise	W	Reinf (Lbs) (1)	Conc (CY) (2)	W	Reinf (Lbs) (1)	Conc (CY) (2)	W	Reinf (Lbs) (1)	Conc (CY) (2)	W	Reinf (Lbs) (1)	Conc (CY) (2)	W	Reinf (Lbs) (1)	Conc (CY) (2)	W	Reinf (Lbs) (1)	Conc (CY) (2)
2:1	1	17"	13"	10′- 1"	131	1.2	2′- 6"	28	0.2	11′- 3"	153	1.3	2′- 9 ¾"	30	0.3	13′- 9"	180	1.6	3′- 5"	33	0.4
	2	21"	15"	11′- 2"	142	1.3	3′- 0"	33	0.3	12′- 5"	164	1.5	3′- 4 ¼"	35	0.4	15′- 2"	195	1.8	4′- 1 ¾"	39	0.4
	3	28"	20"	13′- 6"	187	1.9	3′-10 ¼"	44	0.5	15′- 0"	214	2.1	4′- 4"	45	0.5	18′- 5"	252	2.5	5′- 3 ¾"	59	0.7
	4	35"	24"	15′- 5"	253	2.3	4′- 9"	51	0.6	17′- 3"	287	2.6	5′- 3 ½"	63	0.7	21′- 1"	335	3.2	6′- 5 ¾"	69	0.9
	5	42"	29"	17′- 9"	315	3.3	5′- 7 ¼"	70	0.9	19′-10"	355	3.7	6′- 3"	73	1.0	24′- 3"	411	4.5	7′- 8"	80	1.2
	6	49"	33"	19′- 9"	348	3.9	6′- 5 ½"	78	1.1	22′- 0"	388	4.3	7′- 2 ½"	82	1.2	27′- 0"	474	5.3	8′-10"	102	1.5
	7	57"	38"	22′- 2"	447	4.9	7′- 5"	87	1.4	24′- 9"	495	5.4	8′- 3 ¼"	93	1.6	30′- 3"	597	6.6	10′- 1 ¾"	115	1.9
	8	64"	43"	24′- 6"	515	5.8	8′- 5 ½"	112	1.7	27′- 4"	568	6.4	9′- 5 ¼"	117	1.9	33′- 6"	711	7.9	11′- 6 ½"	141	2.3
	9	71"	47"	26′- 6"	585	6.7	9′- 4 ¾"	121	2.1	29′- 6"	643	7.5	10′- 6"	127	2.3	36′- 2"	794	9.2	12′-10 ¼"	153	2.8
3:1	1	17"	13"	14′- 5"	185	1.7	2′- 6"	29	0.3	16′- 1"	209	1.9	2′- 9 ¾"	30	0.3	19′- 8"	257	2.3	3′- 5"	34	0.4
	2	21"	15"	15′- 9"	213	1.9	3′- 0 ¼"	34	0.3	17′- 7"	240	2.1	3′- 4 ¼"	35	0.4	21′- 7"	278	2.6	4′- 1 ¾"	39	0.4
	3	28"	20"	19′- 0"	273	2.7	3′-10 ¾"	43	0.5	21′- 2"	301	3.0	4′- 4"	46	0.5	25′-11"	366	3.6	5′- 3 ¾"	59	0.7
	4	35"	24"	21′- 8"	363	3.3	4′- 9"	51	0.6	24′- 2"	402	3.7	5′- 3 ½"	62	0.7	29′- 7"	481	4.5	6′- 5 ¾"	69	0.9
	5	42"	29"	24′-10"	441	4.7	5′- 7 ¼"	70	0.9	27′- 9"	506	5.2	6′- 3"	73	1.0	33′-11"	599	6.4	7′- 8"	82	1.2
	6	49"	33"	27′- 6"	507	5.5	6′- 5 ½"	78	1.1	30′- 8"	578	6.2	7′- 2 ½"	83	1.2	37′- 7"	703	7.6	8′-10"	102	1.5
	7	57"	38"	30′-10"	666	6.9	7′- 5"	88	1.4	34′- 4"	725	7.7	8′- 3 ¼"	93	1.6	42′- 1"	876	9.4	10′- 1 ¾"	115	1.9
	8	64"	43"	34′- 0"	754	8.2	8′- 5 ½"	112	1.7	37′-11"	847	9.1	9′- 5 ¼"	117	1.9	46′- 5"	1013	11.1	11′- 6 ½"	141	2.3
	9	71"	47"	36′- 8"	841	9.5	9′- 4 ¾"	121	2.1	40′-11"	942	10.6	10′- 6"	127	2.3	50′- 1"	1149	13.0	12′-10 ¼"	153	2.8
4:1	1	17"	13"	18′- 9"	240	2.2	2′- 6"	29	0.3	20′-11"	267	2.4	2′- 9 ¾"	30	0.3	25′- 7"	324	3.0	3′- 5"	33	0.4
	2	21"	15"	20′- 5"	272	2.5	3′- 0 ¼"	33	0.3	22′-10"	302	2.7	3′- 4 ¼"	35	0.4	27′-11"	362	3.4	4′- 1 ¾"	38	0.4
	3	28"	20"	24′- 6"	358	3.5	3′-10 ¾"	43	0.5	27′- 4"	391	3.9	4′- 4"	45	0.5	33′- 6"	480	4.7	5′- 3 ¾"	59	0.7
	4	35"	24"	27′-10"	468	4.3	4′- 9"	51	0.6	31′- 1"	533	4.8	5′- 3 ½"	62	0.7	38′- 1"	646	5.9	6′- 5 ¾"	69	0.9
	5	42"	29"	31′-11"	587	6.0	5′- 7 ¼"	70	0.9	35′- 7"	639	6.7	6′- 3"	74	1.0	43′- 7"	788	8.3	7′- 8"	82	1.2
	6	49"	33"	35′- 3"	664	7.2	6′- 5 ½"	79	1.1	39′- 4"	744	8.0	7′- 2 ½"	83	1.2	48′- 2"	910	9.8	8′-10"	102	1.5
	7	57"	38"	39′- 5"	860	8.9	7′- 5"	88	1.4	44′- 0"	956	9.9	8′- 3 ¼"	93	1.6	53′-10"	1156	12.2	10′- 1 ¾"	114	1.9
	8	64"	43"	43′- 6"	994	10.6	8′- 5 ½"	112	1.7	48′- 6"	1097	11.8	9′- 5 ¼"	117	1.9	59′- 5"	1344	14.4	11′- 6 ½"	141	2.3
	9	71"	47"	46′-10"	1096	12.3	9′- 4 ¾"	122	2.1	52′- 3"	1211	13.7	10′- 6"	127	2.3	64′- 0"	1509	16.8	12′-10 ¼"	152	2.8
6:1	1	17"	13"	27′- 4"	361	3.2	2′- 6"	29	0.3	30′- 6"	396	3.6	2′- 9 ¾"	30	0.3	37′- 4"	478	4.4	3′- 5"	33	0.3
	2	21"	15"	29′- 9"	402	3.6	3′- 0 ¼"	33	0.3	33′- 2"	437	4.0	3′- 4 ¼"	36	0.4	40′- 8"	542	4.9	4′- 1 ¾"	39	0.5
	3	28"	20"	35′- 7"	513	5.1	3′-10 ¾"	43	0.5	39′- 8"	570	5.6	4′- 4"	46	0.5	48′- 7"	694	6.9	5′- 3 ¾"	60	0.7
	4	35"	24"	40′- 3"	685	6.3	4′- 9"	51	0.6	44′-11"	759	7.0	5′- 3 ½"	64	0.7	55′- 0"	935	8.6	6′- 5 ¾"	70	0.9
	5	42"	29"	46′- 1"	857	8.8	5′- 7 ¼"	72	0.9	51′- 5"	944	9.8	6′- 3"	74	1.0	62′-11"	1172	12.0	7′- 8"	80	1.3
	6	49"	33"	50′-10"	981	10.5	6′- 5 ½"	79	1.1	56′- 8"	1101	11.7	7′- 2 ½"	82	1.2	69′- 5"	1349	14.3	8′-10"	101	1.5
	7	57"	38"	56′- 8"	1273	13.0	7′- 5"	88	1.4	63′- 3"	1420	14.5	8′- 3 ¼"	92	1.6	77′- 5"	1716	17.7	10′- 1 ¾"	114	1.9
	8	64"	43"	62′- 6"	1449	15.3	8′- 5 ½"	111	1.7	69′- 8"	1603	17.1	9′- 5 ¼"	116	1.9	85′- 4"	1985	21.0	11′- 6 ½"	140	2.3
	9	71"	47"	67′- 2"	1615	17.9	9′- 4 ¾"	120	2.1	75′- 0"	1812	20.0	10′- 6"	126	2.3	91′-10"	2190	24.4	12′-10 ¼"	152	2.8

TABLE OF DIMENSIONS NOT VARIED WITH SLOPE

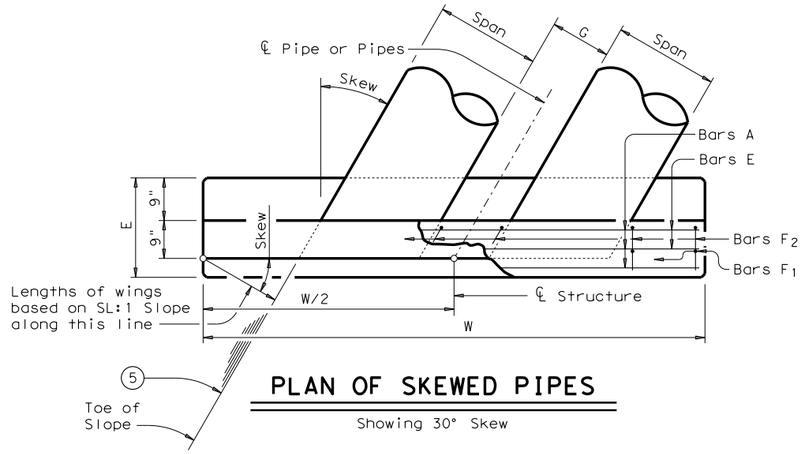
DESIGN	SIZE OF PIPE ARCH		G	K	H	T	E
	Span	Rise					
1	17"	13"	1′- 0"	1′- 0"	2′- 7"	10"	1′- 6"
2	21"	15"	1′- 2"	1′- 0"	2′- 9"	10"	1′- 6"
3	28"	20"	1′- 5"	1′- 0"	3′- 2"	10"	1′-10"
4	35"	24"	1′- 8"	1′- 0"	3′- 6"	10"	2′- 0"
5	42"	29"	1′-11"	1′- 0"	3′-11"	1′- 0"	2′- 4"
6	49"	33"	2′- 2"	1′- 0"	4′- 3"	1′- 0"	2′- 6"
7	57"	38"	2′- 5"	1′- 0"	4′- 8"	1′- 0"	2′-10"
8	64"	43"	2′-10"	1′- 0"	5′- 1"	1′- 0"	3′- 0"
9	71"	47"	3′- 2"	1′- 0"	5′- 5"	1′- 0"	3′- 4"

TABLE OF REINFORCING STEEL (4)

Bar	Size	Spa	No.
A1	# 5	~	2
A2	# 5	1′-6"	~
E	# 5	~	2
F	# 5	1′-0"	~

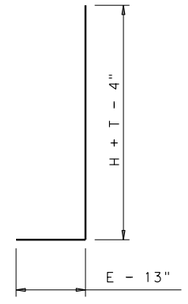


ELEVATION

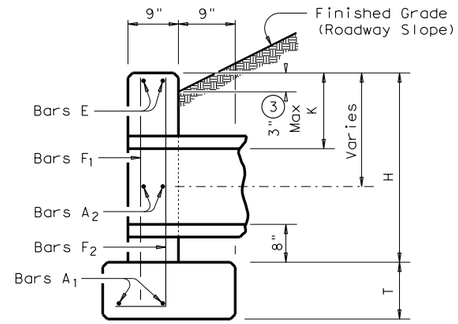


PLAN OF SKEWED PIPES

Showing 30° Skew



BARS F_2



℄ SECTION

(1) Total quantities include one 15" lap for all bars over 60 ft in length.

(2) Quantities shown are for metal pipe and will decrease slightly for concrete pipe installations.

(3) For vehicle safety, curbs shall project no more than 3" above finished grade. Curb heights shall be reduced, if necessary, to meet these requirements. No changes will be made in quantities and no additional compensation will be allowed for this work.

(4) Quantities shown are for one structure end only (one headwall).

(5) Indicated slope is perpendicular to centerline Pipe or Pipes.

GENERAL NOTES:

Designed according to AASHTO LRFD Specifications.

Reinforcing steel shall be placed with the center of the outside layer of bars 2" from the surface of the concrete.

All reinforcing steel shall be Grade 60.

All concrete shall be Class "C" and shall have a minimum compressive strength of 3600 psi.

No bridge rails of any type may be mounted directly to these culvert headwalls.

Texas Department of Transportation

Bridge Division Standard

CONCRETE HEADWALLS WITH PARALLEL WINGS FOR SKEWED ARCH PIPE CULVERTS

CH-PW-A-S

FILE: chpasste.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: GAF
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REVISIONS				
11-10: Removed Bars T.	DIST	COUNTY		SHEET NO.
				67

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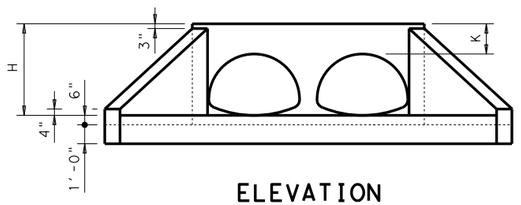
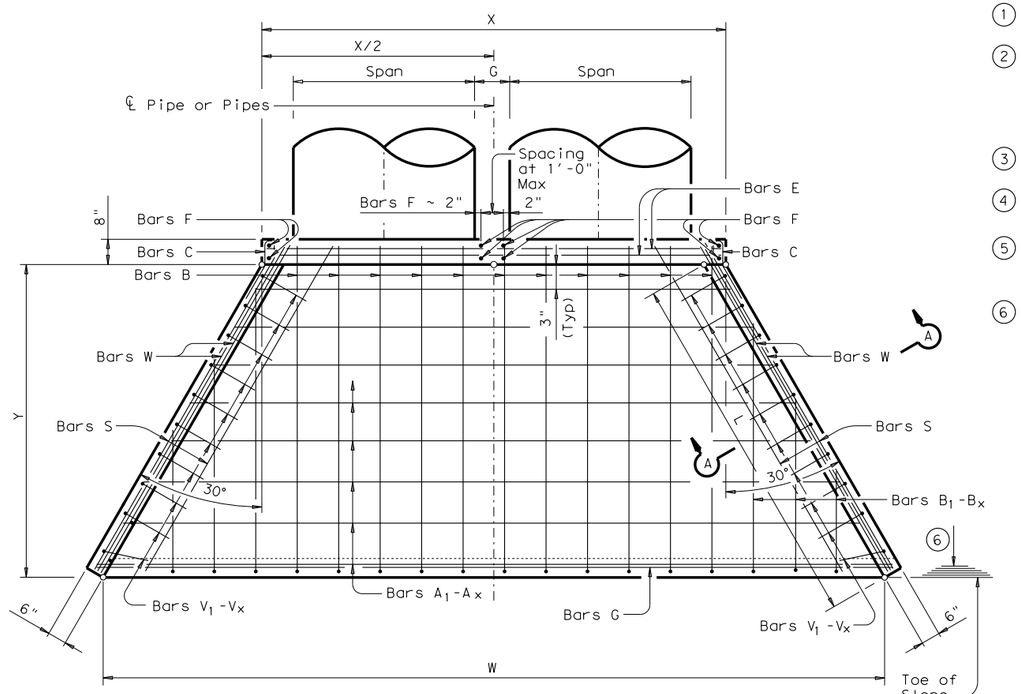
DATE:
FILE:

TABLE OF VARIABLE DIMENSIONS AND QUANTITIES FOR ONE HEADWALL (4)

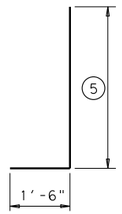
SLOPE	DESIGN	SIZE OF PIPE ARCH Span	SIZE OF PIPE ARCH Rise	Values for one Pipe W	X	Y	L	Reinf (Lbs)	Conc (CY) (1)	Values to be added for each addt'l Pipe X and W	Reinf (Lbs)	Conc (CY) (1)
2:1	1	17"	13"	5′- 0 ½"	2′- 8 ¾"	3′- 0"	3′- 5 ½"	91	0.6	2′- 5"	35	0.3
	2	21"	15"	5′- 9 ¼"	3′- 0 ¾"	3′- 4"	3′-10 ¼"	107	0.8	2′-11"	42	0.4
	3	28"	20"	7′- 3 ¾"	3′- 7 ¾"	4′- 2"	4′- 9 ¾"	148	1.1	3′- 9"	57	0.6
	4	35"	24"	8′- 8"	4′- 2 ¾"	4′-10"	5′- 7"	174	1.4	4′- 7"	73	0.8
	5	42"	29"	10′- 2 ½"	4′- 9 ¾"	5′- 8"	6′- 6 ½"	204	1.8	5′- 5"	98	1.0
	6	49"	33"	11′- 6 ¾"	5′- 4 ¾"	6′- 4"	7′- 3 ¾"	243	2.2	6′- 3"	113	1.3
	7	57"	38"	13′- 2 ¼"	6′- 0 ¾"	7′- 2"	8′- 3 ¼"	279	2.7	7′- 2"	134	1.6
	8	64"	43"	14′- 8 ¾"	6′- 7 ¾"	8′- 0"	9′- 2 ¾"	327	3.2	8′- 2"	168	2.0
	9	71"	47"	16′- 1"	7′- 2 ¾"	8′- 8"	10′- 0"	371	3.7	9′- 1"	192	2.4
3:1	1	17"	13"	6′- 9 ¼"	2′- 8 ¾"	4′- 6"	5′- 2 ¼"	127	0.9	2′- 5"	38	0.4
	2	21"	15"	7′- 8 ¼"	3′- 0 ¾"	5′- 0"	5′- 9 ¼"	142	1.1	2′-11"	48	0.5
	3	28"	20"	9′- 8 ½"	3′- 7 ¾"	6′- 3"	7′- 2 ½"	201	1.6	3′- 9"	64	0.7
	4	35"	24"	11′- 5 ½"	4′- 2 ¾"	7′- 3"	8′- 4 ½"	237	2.1	4′- 7"	83	1.0
	5	42"	29"	13′- 5 ¾"	4′- 9 ¾"	8′- 6"	9′- 9 ¾"	295	2.7	5′- 5"	113	1.3
	6	49"	33"	15′- 2 ¾"	5′- 4 ¾"	9′- 6"	10′-11 ¾"	339	3.3	6′- 3"	130	1.7
	7	57"	38"	17′- 4"	6′- 0 ¾"	10′- 9"	12′- 5"	394	4.2	7′- 2"	159	2.1
	8	64"	43"	19′- 4 ¼"	6′- 7 ¾"	12′- 0"	13′-10 ¼"	471	5.1	8′- 2"	199	2.6
	9	71"	47"	21′- 1 ¼"	7′- 2 ¾"	13′- 0"	15′- 0 ¼"	523	5.9	9′- 1"	226	3.1
4:1	1	17"	13"	8′- 6 ¼"	2′- 8 ¾"	6′- 0"	6′-11"	165	1.3	2′- 5"	42	0.4
	2	21"	15"	9′- 7 ¼"	3′- 0 ¾"	6′- 8"	7′- 8 ½"	185	1.6	2′-11"	53	0.6
	3	28"	20"	12′- 1 ½"	3′- 7 ¾"	8′- 4"	9′- 7 ½"	253	2.3	3′- 9"	72	0.9
	4	35"	24"	14′- 3"	4′- 2 ¾"	9′- 8"	11′- 2"	311	2.9	4′- 7"	94	1.2
	5	42"	29"	16′- 9"	4′- 9 ¾"	11′- 4"	13′- 1"	375	3.9	5′- 5"	125	1.6
	6	49"	33"	18′-10 ½"	5′- 4 ¾"	12′- 8"	14′- 7 ½"	449	4.7	6′- 3"	152	2.0
	7	57"	38"	21′- 5 ½"	6′- 0 ¾"	14′- 4"	16′- 6 ¾"	526	5.9	7′- 2"	180	2.6
	8	64"	43"	23′-11 ¾"	6′- 7 ¾"	16′- 0"	18′- 5 ¾"	625	7.2	8′- 2"	229	3.2
	9	71"	47"	26′- 1 ¼"	7′- 2 ¾"	17′- 4"	20′- 0 ¼"	698	8.4	9′- 1"	261	3.9
6:1	1	17"	13"	11′-11 ¾"	2′- 8 ¾"	9′- 0"	10′- 4 ¾"	239	2.1	2′- 5"	49	0.6
	2	21"	15"	13′- 5 ½"	3′- 0 ¾"	10′- 0"	11′- 6 ½"	272	2.6	2′-11"	61	0.8
	3	28"	20"	16′-11 ¼"	3′- 7 ¾"	12′- 6"	14′- 5 ¼"	388	3.8	3′- 9"	87	1.2
	4	35"	24"	19′-10"	4′- 2 ¾"	14′- 6"	16′- 9"	464	5.0	4′- 7"	112	1.6
	5	42"	29"	23′- 3 ½"	4′- 9 ¾"	17′- 0"	19′- 7 ½"	581	6.6	5′- 5"	154	2.2
	6	49"	33"	26′- 2 ¼"	5′- 4 ¾"	19′- 0"	21′-11 ¼"	705	8.2	6′- 3"	187	2.8
	7	57"	38"	29′- 9"	6′- 0 ¾"	21′- 6"	24′-10"	846	10.3	7′- 2"	233	3.5
	8	64"	43"	33′- 2 ½"	6′- 7 ¾"	24′- 0"	27′- 8 ½"	990	12.6	8′- 2"	289	4.4
	9	71"	47"	36′- 1 ¼"	7′- 2 ¾"	26′- 0"	30′- 0 ¼"	1119	14.7	9′- 1"	336	5.3



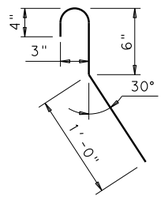
ELEVATION
Showing dimensions



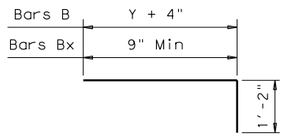
PLAN



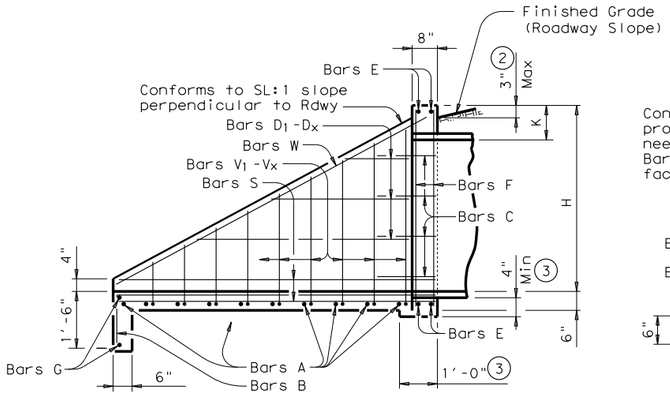
BARS V



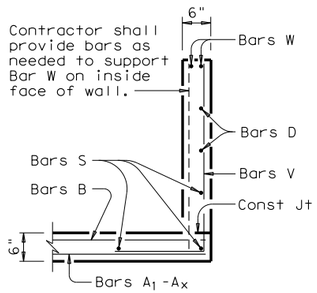
BARS C
(2′-0" long)



BARS B & B1 -Bx



TYPICAL WING ELEVATION



SECTION A-A

TABLE OF REINFORCING STEEL (4)

Bar	Size	Spa	No.
A	# 4	1′-0"	~
B	# 3	1′-6"	~
C	# 4	1′-0"	~
D	# 3	1′-0"	~
E	# 5	~	4
F	# 5	~	~
G	# 3	~	2
S	# 4	~	6
V	# 4	1′-0"	~
W	# 5	~	4

TABLE OF DIMENSIONS NOT VARIED WITH SLOPE

DESIGN	SIZE OF PIPE ARCH Span	SIZE OF PIPE ARCH Rise	G	K	H
1	17"	13"	1′- 0"	1′- 0"	2′- 1"
2	21"	15"	1′- 2"	1′- 0"	2′- 3"
3	28"	20"	1′- 5"	1′- 0"	2′- 8"
4	35"	24"	1′- 8"	1′- 0"	3′- 0"
5	42"	29"	1′-11"	1′- 0"	3′- 5"
6	49"	33"	2′- 2"	1′- 0"	3′- 9"
7	57"	38"	2′- 5"	1′- 0"	4′- 2"
8	64"	43"	2′-10"	1′- 0"	4′- 7"
9	71"	47"	3′- 2"	1′- 0"	4′-11"

(1) Quantities shown are for metal pipe and will decrease slightly for concrete pipe installations.

(2) For vehicle safety, curbs shall project no more than 3" above finished grade. Curb heights shall be reduced, if necessary, to meet these requirements. No changes will be made in quantities and no additional compensation will be allowed for this work.

(3) Provide a 1′-0" footing as shown where required to maintain 4" Min cover for pipes.

(4) Quantities shown are for one structure end only (one headwall).

(5) Min Length = $6" + 3" \times \left(\frac{12 \times H - 7}{12 \times L}\right)$

Max Length = $12 \times H - 3" \times \left(\frac{12 \times H - 7}{12 \times L}\right) - 1"$

(6) Lengths of wings based on SL:1 Slope along this line.

GENERAL NOTES:

Designed according to AASHTO LRFD Specifications.

Reinforcing steel shall be placed with the center of the outside layer of bars 2" from the surface of the concrete.

All reinforcing steel shall be Grade 60.

All concrete shall be Class "C" and shall have a minimum compressive strength of 3600 psi.

No bridge rails of any type may be mounted directly to these culvert headwalls.

Texas Department of Transportation

Bridge Division Standard

CONCRETE HEADWALLS WITH FLARED WINGS FOR 0° SKEW ARCH PIPE CULVERTS

CH-FW-A-0

FILE: chfa00se.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: GAF
©TxDOT February 2010 REVISIONS	CONT	SECT	JOB	HIGHWAY
	DIST	COUNTY		SHEET NO.

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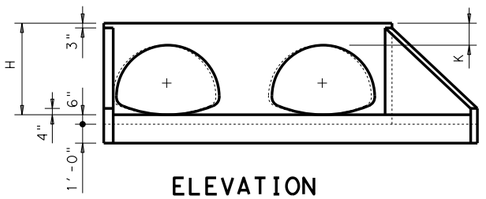
DATE:
FILE:

TABLE OF VARIABLE DIMENSIONS AND QUANTITIES FOR ONE HEADWALL (4)

SLOPE	DESIGN	SIZE OF PIPE ARCH Span	SIZE OF PIPE ARCH Rise	Values for one Pipe W	X	Y	L	Reinf (Lbs)	Conc (CY) (1)	Values to be added for each addt'l Pipe X and W	Reinf (Lbs)	Conc (CY) (1)
2:1	1	17"	13"	3'- 7 1/2"	2'-11 1/2"	3'- 0"	3'- 5 1/2"	89	0.6	2'- 6"	36	0.3
	2	21"	15"	4'- 2"	3'- 3 3/4"	3'- 4"	3'-10 1/4"	101	0.7	3'- 0 1/4"	43	0.4
	3	28"	20"	5'- 3"	3'-11"	4'- 2"	4'- 9 3/4"	139	1.0	3'-10 1/2"	60	0.6
	4	35"	24"	6'- 2 3/4"	4'- 6 1/4"	4'-10"	5'- 7"	162	1.2	4'- 9"	76	0.8
	5	42"	29"	7'- 3 3/4"	5'- 1 1/2"	5'- 8"	6'- 6 1/2"	194	1.6	5'- 7 1/4"	101	1.1
	6	49"	33"	8'- 3 3/4"	5'- 8 3/4"	6'- 4"	7'- 3 3/4"	225	1.9	6'- 5 3/4"	115	1.3
	7	57"	38"	9'- 5 3/4"	6'- 5"	7'- 2"	8'- 3 1/4"	258	2.4	7'- 5"	137	1.7
	8	64"	43"	10'- 6 3/4"	7'- 0 1/4"	8'- 0"	9'- 2 3/4"	302	2.8	8'- 5 1/2"	172	2.1
	9	71"	47"	11'- 6 1/2"	7'- 7 1/2"	8'- 8"	10'- 0"	340	3.3	9'- 4 3/4"	197	2.5
3:1	1	17"	13"	4'- 5 3/4"	2'-11 1/2"	4'- 6"	5'- 2 1/4"	117	0.8	2'- 6"	38	0.4
	2	21"	15"	5'- 1 1/2"	3'- 3 3/4"	5'- 0"	5'- 9 1/4"	132	1.0	3'- 0 1/4"	48	0.5
	3	28"	20"	6'- 5 1/2"	3'-11"	6'- 3"	7'- 2 1/2"	181	1.4	3'-10 1/2"	67	0.8
	4	35"	24"	7'- 7 1/2"	4'- 6 1/4"	7'- 3"	8'- 4 1/2"	214	1.8	4'- 9"	85	1.0
	5	42"	29"	8'-11 1/2"	5'- 1 1/2"	8'- 6"	9'- 9 3/4"	266	2.3	5'- 7 1/4"	116	1.4
	6	49"	33"	10'- 1 1/2"	5'- 8 3/4"	9'- 6"	10'-11 3/4"	304	2.8	6'- 5 3/4"	134	1.7
	7	57"	38"	11'- 6 1/2"	6'- 5"	10'- 9"	12'- 5"	354	3.5	7'- 5"	164	2.2
	8	64"	43"	12'-10 1/2"	7'- 0 1/4"	12'- 0"	13'-10 1/4"	418	4.2	8'- 5 1/2"	203	2.7
	9	71"	47"	14'- 0 3/4"	7'- 7 1/2"	13'- 0"	15'- 0 1/4"	462	4.9	9'- 4 3/4"	233	3.2
4:1	1	17"	13"	5'- 4 1/4"	2'-11 1/2"	6'- 0"	6'-11"	147	1.1	2'- 6"	43	0.5
	2	21"	15"	6'- 1"	3'- 3 3/4"	6'- 8"	7'- 8 1/2"	167	1.3	3'- 0 1/4"	54	0.6
	3	28"	20"	7'- 7 3/4"	3'-11"	8'- 4"	9'- 7 1/2"	226	1.8	3'-10 1/2"	74	0.9
	4	35"	24"	9'- 0 1/4"	4'- 6 1/4"	9'- 8"	11'- 2"	274	2.4	4'- 9"	98	1.2
	5	42"	29"	10'- 7"	5'- 1 1/2"	11'- 4"	13'- 1"	330	3.1	5'- 7 1/4"	127	1.7
	6	49"	33"	11'-11 1/2"	5'- 8 3/4"	12'- 8"	14'- 7 1/2"	393	3.8	6'- 5 3/4"	156	2.1
	7	57"	38"	13'- 7 1/2"	6'- 5"	14'- 4"	16'- 6 3/4"	453	4.7	7'- 5"	185	2.7
	8	64"	43"	15'- 2 1/4"	7'- 0 1/4"	16'- 0"	18'- 5 3/4"	538	5.7	8'- 5 1/2"	233	3.3
	9	71"	47"	16'- 6 3/4"	7'- 7 1/2"	17'- 4"	20'- 0 1/4"	595	6.7	9'- 4 3/4"	269	4.0
6:1	1	17"	13"	7'- 1"	2'-11 1/2"	9'- 0"	10'- 4 3/4"	208	1.6	2'- 6"	49	0.6
	2	21"	15"	8'- 0"	3'- 3 3/4"	10'- 0"	11'- 6 1/2"	236	2.0	3'- 0 1/4"	62	0.8
	3	28"	20"	10'- 0 3/4"	3'-11"	12'- 6"	14'- 5 1/4"	332	2.9	3'-10 1/2"	91	1.2
	4	35"	24"	11'- 9 3/4"	4'- 6 1/4"	14'- 6"	16'- 9"	389	3.7	4'- 9"	117	1.7
	5	42"	29"	13'-10 1/4"	5'- 1 1/2"	17'- 0"	19'- 7 1/2"	491	5.0	5'- 7 1/4"	158	2.2
	6	49"	33"	15'- 7 1/2"	5'- 8 3/4"	19'- 0"	21'-11 1/4"	582	6.1	6'- 5 3/4"	192	2.8
	7	57"	38"	17'- 9"	6'- 5"	21'- 6"	24'-10"	689	7.6	7'- 5"	238	3.7
	8	64"	43"	19'- 9 1/2"	7'- 0 1/4"	24'- 0"	27'- 8 1/2"	808	9.3	8'- 5 1/2"	297	4.6
	9	71"	47"	21'- 6 3/4"	7'- 7 1/2"	26'- 0"	30'- 0 1/4"	910	10.9	9'- 4 3/4"	347	5.5



ELEVATION

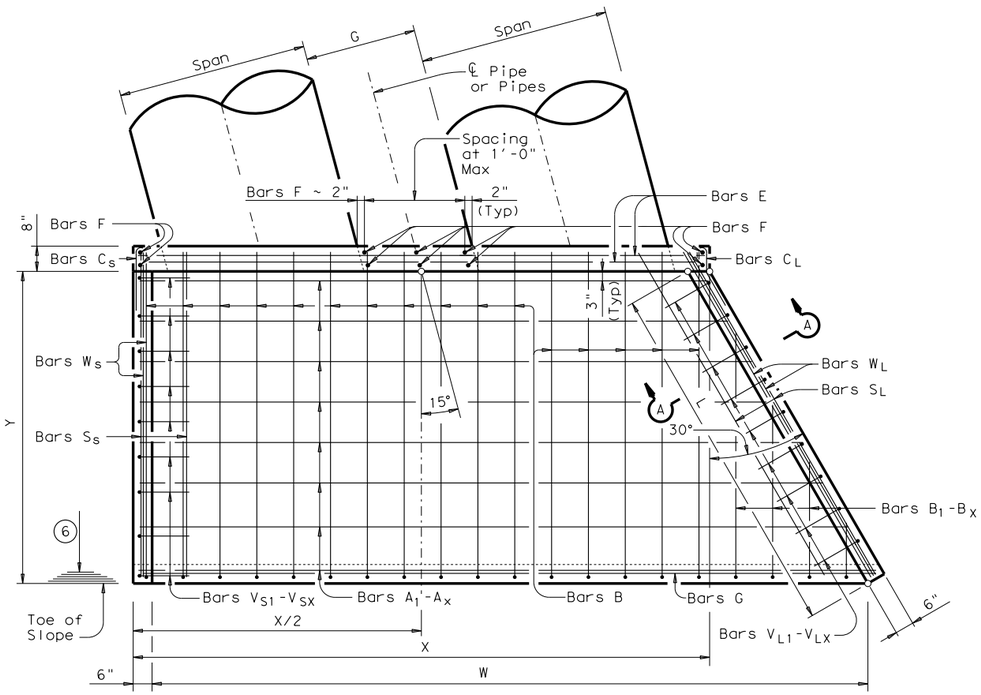
Showing dimensions

TABLE OF REINFORCING STEEL (4)

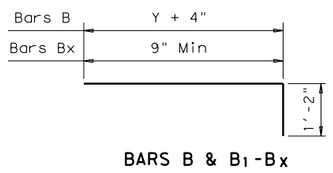
Bar	Size	Spa	No.
A	# 4	1'-0"	~
B	# 3	1'-6"	~
C	# 4	1'-0"	~
D	# 3	1'-0"	~
E	# 5	~	4
F	# 5	~	~
G	# 3	~	2
S	# 4	~	6
V	# 4	1'-0"	~
W	# 5	~	4

TABLE OF DIMENSIONS NOT VARIED WITH SLOPE

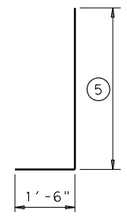
DESIGN	SIZE OF PIPE ARCH Span	SIZE OF PIPE ARCH Rise	G	K	H
1	17"	13"	1'- 0"	1'- 0"	2'- 1"
2	21"	15"	1'- 2"	1'- 0"	2'- 3"
3	28"	20"	1'- 5"	1'- 0"	2'- 8"
4	35"	24"	1'- 8"	1'- 0"	3'- 0"
5	42"	29"	1'-11"	1'- 0"	3'- 5"
6	49"	33"	2'- 2"	1'- 0"	3'- 9"
7	57"	38"	2'- 5"	1'- 0"	4'- 2"
8	64"	43"	2'-10"	1'- 0"	4'- 7"
9	71"	47"	3'- 2"	1'- 0"	4'-11"



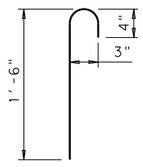
PLAN



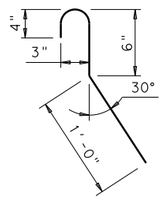
BARS B & B_1-B_X



BARS V_S & V_L



BARS C_S
(2'-0" long)



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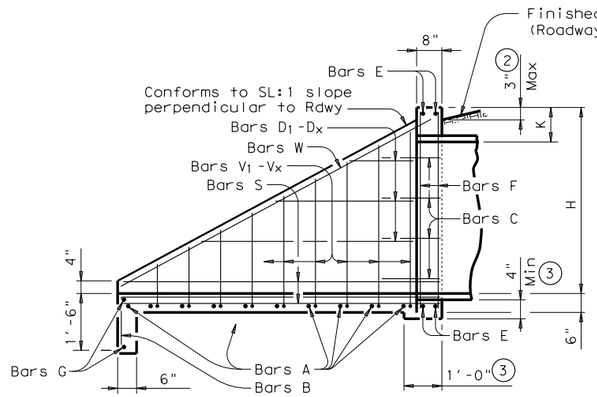
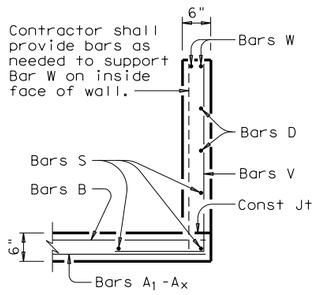


TYPICAL WING ELEVATION



SECTION A-A

(1) Quantities shown are for metal pipe and will decrease slightly for concrete pipe installations.

(2) For vehicle safety, curbs shall project no more than 3" above finished grade. Curb heights shall be reduced, if necessary, to meet these requirements. No changes will be made in quantities and no additional compensation will be allowed for this work.

(3) Provide a 1'-0" footing as shown where required to maintain 4" Min cover for pipes.

(4) Quantities shown are for one structure end only (one headwall).

(5) Min Length = $6" + 3" \times \left(\frac{12 \times H - 7}{12 \times L}\right)$

Max Length = $12 \times H - 3" \times \left(\frac{12 \times H - 7}{12 \times L}\right) - 1"$

(6) Lengths of wings based on SL:1 Slope along this line.

GENERAL NOTES:

Designed according to AASHTO LRFD Specifications.

Reinforcing steel shall be placed with the center of the outside layer of bars 2" from the surface of the concrete.

All reinforcing steel shall be Grade 60.

All concrete shall be Class "C" and shall have a minimum compressive strength of 3600 psi.

No bridge rails of any type may be mounted directly to these culvert headwalls.

Texas Department of Transportation

Bridge Division Standard

CONCRETE HEADWALLS WITH FLARED WINGS FOR 15° SKEW ARCH PIPE CULVERTS

CH-FW-A-15

FILE: chfa15se.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: GAF
©TxDOT February 2010	CONT	SECT	JOB	HIGHWAY
REVISIONS				
	DIST	COUNTY		SHEET NO.

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REFLECTOR UNIT SIZES FOR DELINEATORS AND OBJECT MARKERS

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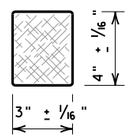
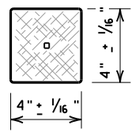
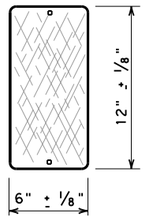
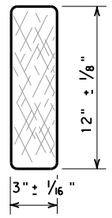
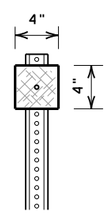
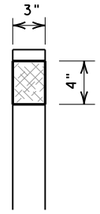
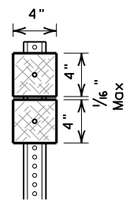
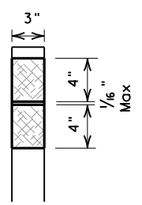
DEVICE				
SHEETING	Yellow, White or Red Type B or C reflective sheeting			

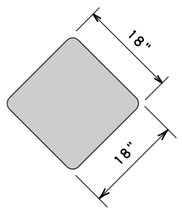
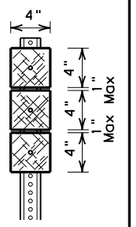
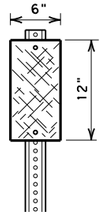
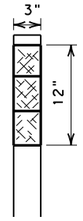
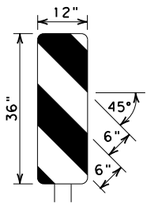
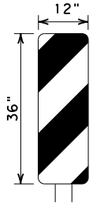
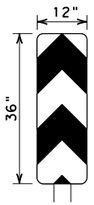
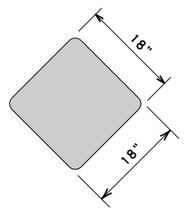
NOTE

1. Size 1 and 4 - Direct applied reflective sheeting for use on flexible post (flx).
2. Size 2 and 3 - For use on wing channel (wc) post only. Use approved metal, plastic or fiberglass backplate with 17/64" mounting holes.

DELINEATORS

	SINGLE		DOUBLE	
DEVICE				
	1-Size 2 reflector unit	1-Size 1 reflector unit	2-Size 2 reflector units	2-Size 1 reflector units
SHEETING	Yellow, White or Red Type B or C Reflective Sheeting			
POST TYPE	WC	FLX	WC	FLX
MOUNT TYPE	GND	GND, SRF	GND	GND, SRF

OBJECT MARKERS

	Type 1 (OM-1)	Type 2 (OM-2)			Type 3 (OM-3)			Type 4 (OM-4)
	OM-1	OM-2X	OM-2Y	OM-2Z	OM-3L	OM-3R	OM-3C	OM-4
DEVICE								
		3-Size 2 reflector units	1-Size 3 reflector unit	3-Size 1 reflector units or 1-Size 4 reflector unit				
SHEETING	Yellow-Type B_{FL} or C_{FL} Sheeting	Yellow - Type B or C Sheeting			Alternating acrylic black and retroflective yellow - Type B_{FL} or C_{FL} Sheeting			Red -Type B_{FL} or C_{FL} Sheeting
POST TYPE	TWT	WC	WC	FLX	TWT			TWT
MOUNT TYPE	WAS, WAP	GND	GND	GND, SRF	WAS, WAP			WAS, WAP

D & OM DESCRIPTIVE CODES

INSTL DEL ASSM (D-XX)SZ X (XXX)XXX(XX)

NUMBER OF REFLECTORS
S = Single
D = Double

COLOR OF REFLECTORS
W = White
Y = Yellow
R = Red

REFLECTOR UNIT SIZE
1 or 2

TYPE OF POST OR DELINEATOR
WC = Wing Channel Post
FLX = Flexible Post
BRF = Barrier Reflector

TYPE OF MOUNT
GND = Embedded (drivable or set in concrete)
CTB = Concrete Barrier Mount
GF1 or GF2 = Guard Fence Attachment
SRF = Surface Mount

DIRECTION
If Required
BI = Bi-Directional
BR = Bi-Directional with red on back

INSTL OM ASSM (OM-XX) (XXX)XXX(XX)

TYPE OF OBJECT MARKER
1, 2, 3, or 4

NUMBER OF REFLECTORS OR DIRECTION
X = 3-Size 2 reflector units (Type 2 only)
Y = 1-Size 3 reflector unit (Type 2 only)
Z = 3-Size 1 or 1-Size 4 reflector unit(s) (Type 2 only)
L = Left Side (Type 3 Object Marker only)
R = Right Side (Type 3 Object Marker only)
C = Center (Type 3 Object Marker only)

TYPE OF POST
WC = Wing Channel Post
FLX = Flexible Post
TWT = Thin Walled Tubing

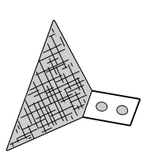
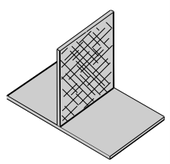
TYPE OF MOUNT
GND = Embedded (drivable)
SRF = Surface Mount
WAS = Wedge Anchor Steel
WAP = Wedge Anchor Plastic

DIRECTION
If Required
BI = Bi-Directional

DEPARTMENTAL MATERIAL SPECIFICATIONS

FLEXIBLE DELINEATOR & OBJECT MARKER POSTS (EMBEDDED & SURFACE MOUNT TYPES)	DMS-4400
SIGN FACE MATERIALS	DMS-8300
DELINEATORS, OBJECT MARKERS AND BARRIER REFLECTORS	DMS-8600

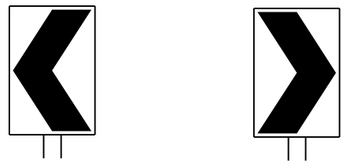
BARRIER REFLECTORS (BRF)

	GF1	GF2	CTB
DEVICE			

1. Barrier reflectors shall meet the requirements of DMS 8600.
2. Approved Barrier Reflectors are listed on the "Barrier Reflectors" Material Producer List at: www.txdot.gov.

SHEETING	Yellow, White, Red
NOTE	1. Minimum 9 square inches of reflective sheeting surface area.

CHEVRONS

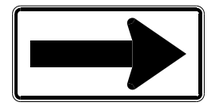
DEVICE 

W1-8

SIZE (W x L)	18"x 24" (Conventional)	24"x 30" (Conventional Oversize)	30"x 36" (Expressway)	36" x 48" (Freeway)
MOUNTING HEIGHT	4'-0" or 7'-0"		7'-0" Only	

NOTE
1. CHEVRON (W1-8) signs and ONE DIRECTION LARGE ARROW (W1-6) Signs shall be installed per Sign Mounting Details (SMD) Standard Sheets and paid under Item 644 (Small Roadside Sign Assemblies).
2. The Texas version of the ONE DIRECTION LARGE ARROW sign (W1-9T) may be used instead of the ONE DIRECTIONAL LARGE ARROW (W1-6).

ONE DIRECTION LARGE ARROW

DEVICE 

W1-6

SIZE (W x L)	48" x 24" (Conventional)	60" x 30" (Expressway & Freeway)
MOUNTING HEIGHT	7'-0"	

NOTE:
Delineator and object marker backplates and sign substrates shall be 0.080" Aluminum sign blank to conform to ASTM B-209 Alloy 6061-T6 or approved alternative.

Texas Department of Transportation

Traffic Operations Division Standard

DELINEATOR & OBJECT MARKER MATERIAL DESCRIPTION D & OM(1)-15

FILE: dom1-15.dgn	DN: TXDOT	CK: TXDOT	DW: TXDOT	CK: TXDOT
©TxDOT August 2004	CONT	SECT	JOB	HIGHWAY
REVISIONS				
10-09 3-15	DIST	COUNTY		SHEET NO.
4-10				20A

DATE:
FILE:
11/29/2018 8:12 AM

Williamson County, Texas

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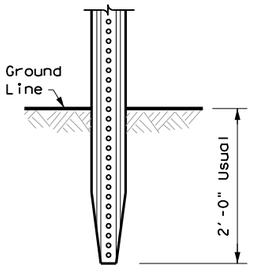
POST TYPE AND SUPPORT FOUNDATION DETAILS

WING CHANNEL (WC)

GND

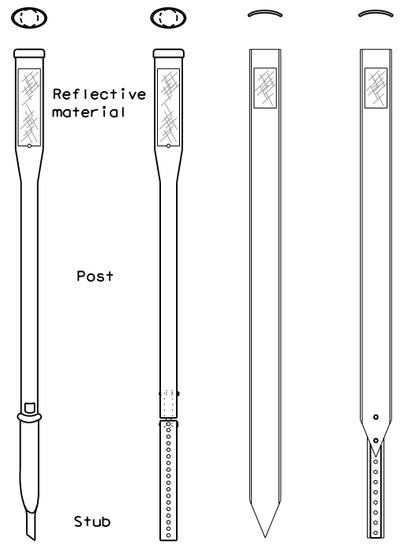


NOTES

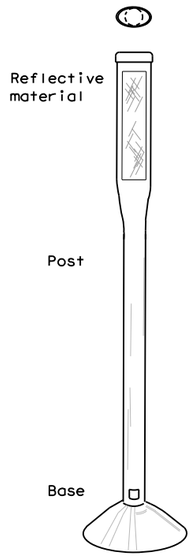
1. Embedded Wing Channel (WC) post option may be used for Type 2 Object Markers and Delineators only.
2. 1.12 lbs/ft steel per ASTM A 1011 SS Gr. 50, or ASTM A499.

FLEXIBLE POSTS (FLX)

GND



SRF



EMBEDDED

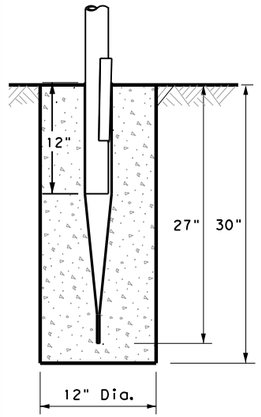
SURFACE MOUNT

NOTES

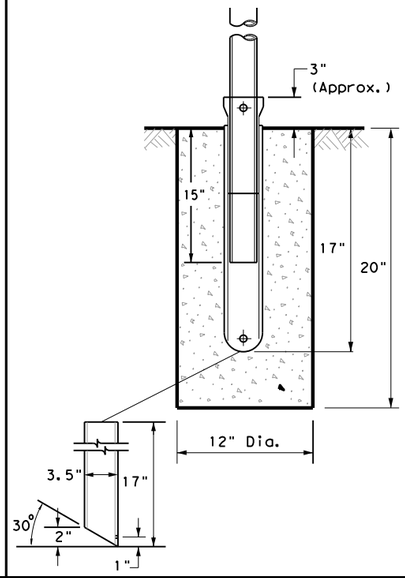
1. See "Flexible Delineator and Object Marker Posts" Material Producer List for approved devices.
2. Install per manufacturer's recommendations.
3. Post length may vary to meet field conditions.

WEDGE ANCHOR SYSTEMS

WAS



WAP



STEEL

PLASTIC

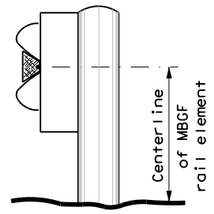
NOTE

1. Install per manufacturer's recommendations.

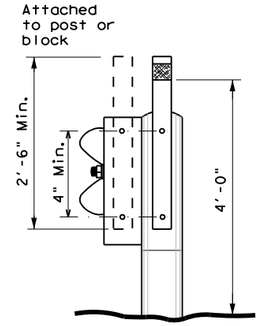
TYPE OF BARRIER MOUNTS

GUARD FENCE ATTACHMENT

GF1

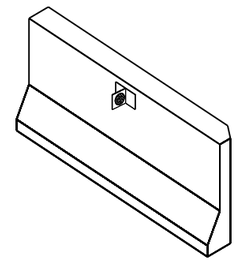


GF2



CONCRETE BARRIER / BRIDGE RAIL

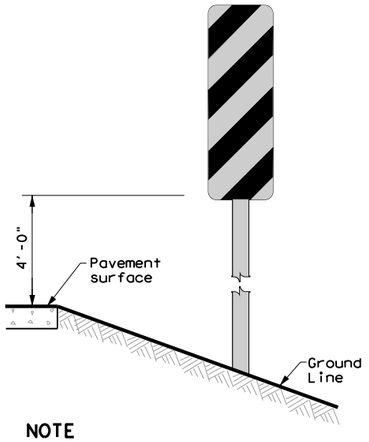
CTB



GENERAL NOTES

1. Place delineators on a section of roadway at a consistent distance from the edge of pavement.
2. Where a restriction prevents consistent placement from the pavement edge, place the affected object markers in line with the innermost edge of the obstruction.
3. When Type 2 object markers and delineators are more than 8'-0" from the edge of the pavement, it may not be possible to maintain a height of approximately 4'-0". If this is the case, place the object marker or delineator as close to the desired height as possible.
4. Install all delineators, object markers and barrier reflectors in accordance with the manufacturer's recommendation.
5. Barrier reflectors should be installed a minimum of 18 inches above the edge of the pavement surface.

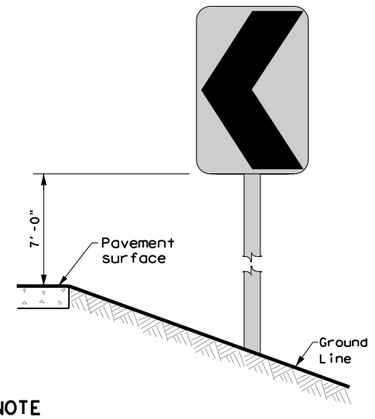
TYPES 1, 3, AND 4 OBJECT MARKERS AND CHEVRONS



NOTE

Mounting at 4 feet to the bottom of the chevron is permitted for chevrons that will not exceed a height of 6'-6" to the top of the chevron (sizes 24" x 30" and smaller)

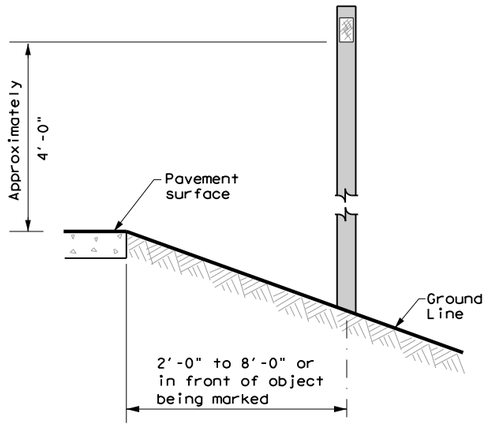
CHEVRONS AND ONE DIRECTION LARGE ARROW SIGN



NOTE

Chevrons 30" x 36" and larger shall be mounted at a height of 7' to the bottom of the chevron. Chevron sign and ONE DIRECTIONAL LARGE ARROW sign (W1-9T) shall be installed per SMD standard sheets and paid under item 644.

DELINEATORS AND TYPE 2 OBJECT MARKERS



See general notes 1, 2 and 3.

Texas Department of Transportation

Traffic Operations Division Standard

DELINEATOR & OBJECT MARKER INSTALLATION

D & OM(2)-15

FILE: dom2-15.dgn	DN: TXDOT	CK: TXDOT	DW: TXDOT	CK: TXDOT
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REVISIONS				
10-09 3-15	DIST	COUNTY		SHEET NO.
4-10				71

20B

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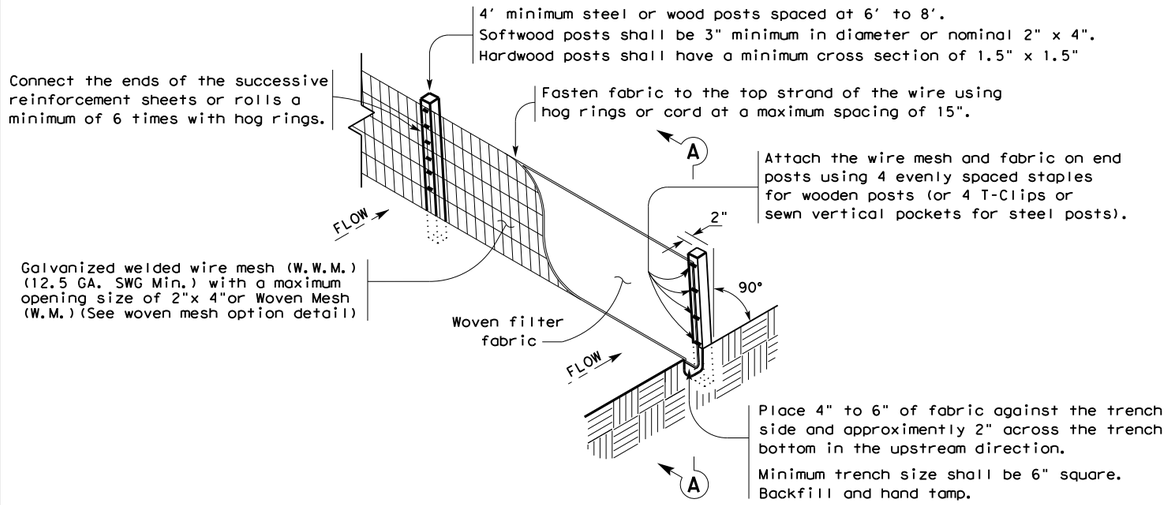
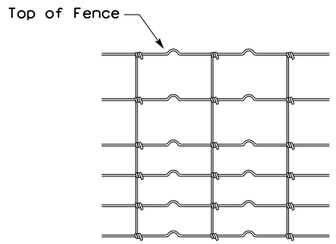
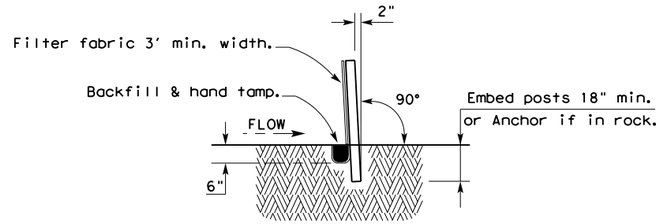


TEMPORARY SEDIMENT CONTROL FENCE

SCF





SECTION A-A

HINGE JOINT KNOT WOVEN MESH (OPTION) DETAIL

Galvanized hinge joint knot woven mesh (12.5 GA.SWG Min.) requires a minimum of five horizontal wires spaced at a maximum of 12 inches apart and all vertical wires spaced at a maximum of 12 inches apart.

SEDIMENT CONTROL FENCE USAGE GUIDELINES

A sediment control fence may be constructed near the downstream perimeter of a disturbed area along a contour to intercept sediment from overland runoff. A 2 year storm frequency may be used to calculate the flow rate to be filtered.

Sediment control fence should be sized to filter a maximum flow through rate of 100 GPM/FT^2. Sediment control fence is not recommended to control erosion from a drainage area larger than 2 acres.

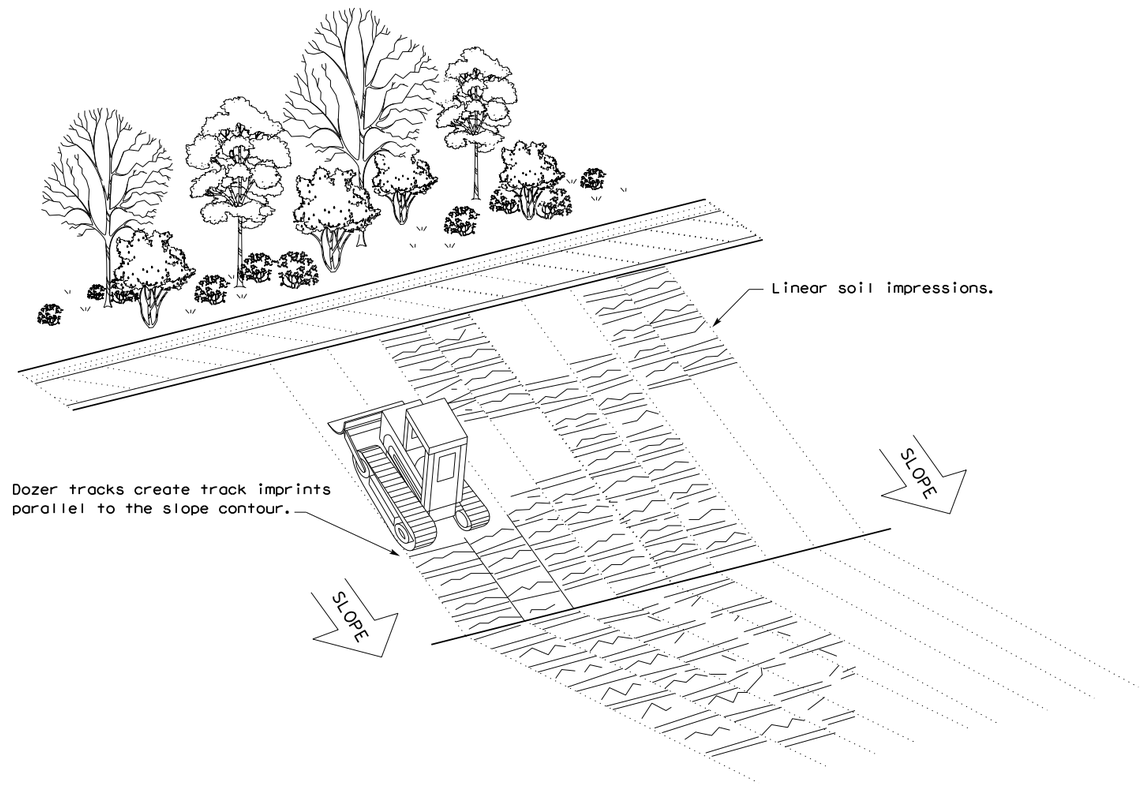
LEGEND

Sediment Control Fence

SCF

GENERAL NOTES

1. Vertical tracking is required on projects where soil distributing activities have occurred unless otherwise approved.
2. Perform vertical tracking on slopes to temporarily stabilize soil.
3. Provide equipment with a track undercarriage capable of producing linear soil impressions measuring a minimum of 12" in length by 2" to 4" in width by 1/2" to 2" in depth.
4. Do not exceed 12" between track impressions.
5. Install continous linear track impressions where the minimum 12" length impressions are perpendicular to the slope or direction of water flow.



VERTICAL TRACKING

Texas Department of Transportation

Design Division Standard

TEMPORARY EROSION, SEDIMENT AND WATER POLLUTION CONTROL MEASURES

FENCE & VERTICAL TRACKING

EC(1)-16

FILE: ec116	DN: TxDOT	CK: KM	DW: VP	DN/CK: LS
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REVISIONS				
	DIST	COUNTY		SHEET NO.
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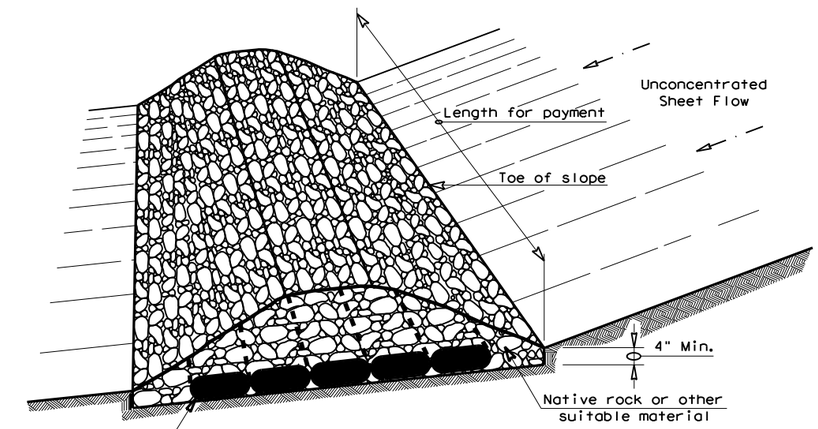
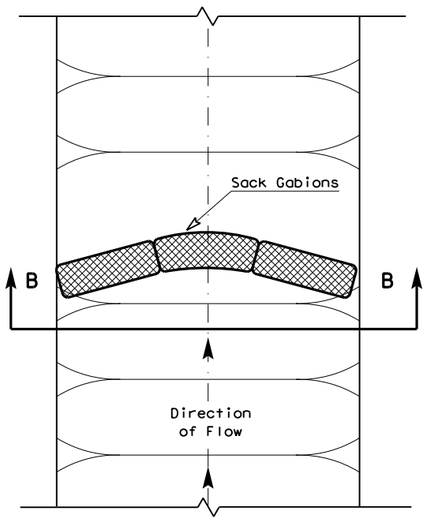
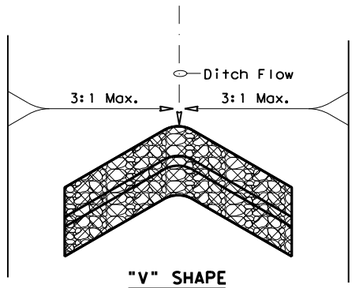


FILTER DAM AT TOE OF SLOPE

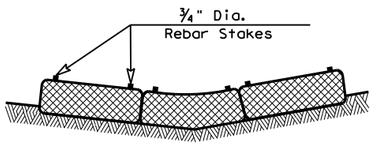
RFD1



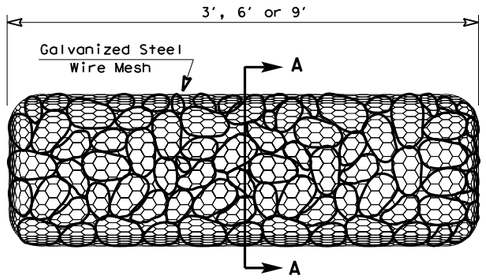
PLAN VIEW



"V" SHAPE
PLAN VIEW

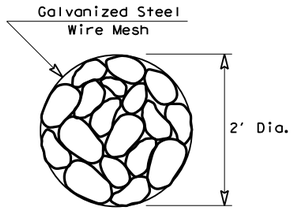


SECTION B-B

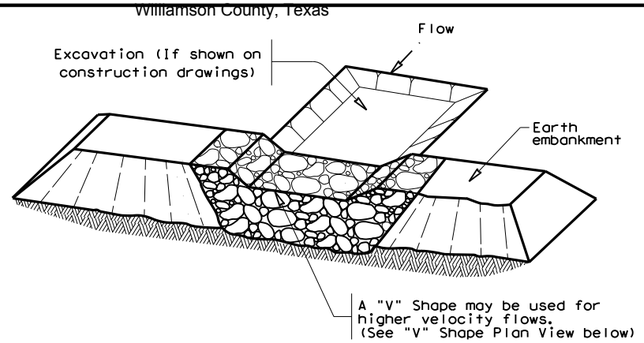


TYPE 4 (SACK GABIONS)

RFD4

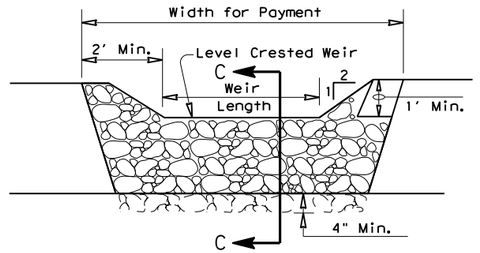


SECTION A-A

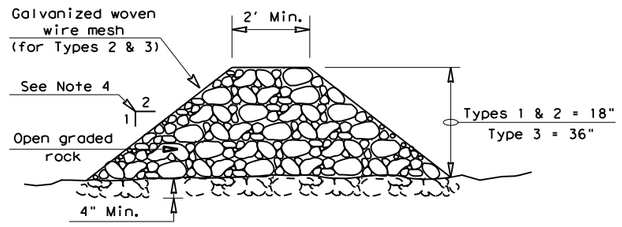


FILTER DAM AT SEDIMENT TRAP

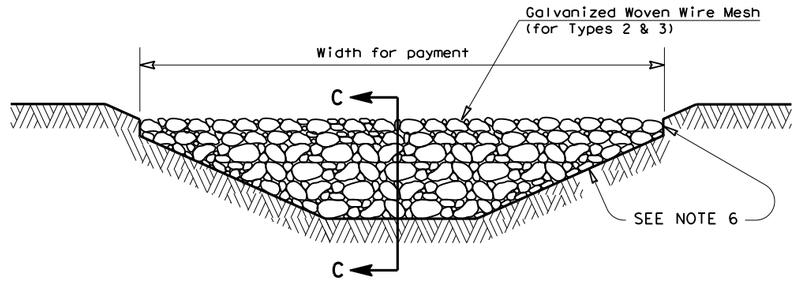
RFD1 — OR — RFD2



PROFILE



SECTION C-C



FILTER DAM AT CHANNEL SECTIONS

RFD1 — OR — RFD2 — OR — RFD3

ROCK FILTER DAM USAGE GUIDELINES

Rock Filter Dams should be constructed downstream from disturbed areas to intercept sediment from overland runoff and/or concentrated flow. The dams should be sized to filter a maximum flow through rate of 60 GPM/FT^2 of cross sectional area. A 2 year storm frequency may be used to calculate the flow rate.

Type 1 (18" high with no wire mesh) (3" to 6" aggregate): Type 1 may be used at the toe of slopes, around inlets, in small ditches, and at dike or swale outlets. This type of dam is recommended to control erosion from a drainage area of 5 acres or less. Type 1 may not be used in concentrated high velocity flows (approximently 8 Ft/Sec or more) in which aggregate wash out may occur. Sandbags may be used at the embedded foundation (4" deep min.) for better filtering efficiency of low flows if called for on the plans or directed by the Engineer.

Type 2 (18" high with wire mesh) (3" to 6" aggregate): Type 2 may be used in ditches and at dike or swale outlets.

Type 3 (36" high with wire mesh) (4" to 8" aggregate): Type 3 may be used in stream flow and should be secured to the stream bed.

Type 4 (Sack gabions) (3" to 6" aggregate): Type 4 May be used in ditches and smaller channels to form an erosion control dam.

Type 5: Provide rock filter dams as shown on plans.

GENERAL NOTES

1. If shown on the plans or directed by the Engineer, filter dams should be placed near the toe of slopes where erosion is anticipated, upstream and/or downstream at drainage structures, and in roadway ditches and channels to collect sediment.
2. Materials (aggregate, wire mesh, sandbags, etc.) shall be as indicated by the specification for "Rock Filter Dams for Erosion and Sedimentation Control".
3. The rock filter dam dimensions shall be as indicated on the SW3P plans.
4. Side slopes should be 2:1 or flatter. Dams within the safety zone shall have sideslopes of 6:1 or flatter.
5. Maintain a minimum of 1' between top of rock filter dam weir and top of embankment for filter dams at sediment traps.
6. Filter dams should be embedded a minimum of 4" into existing ground.
7. The sediment trap for ponding of sediment laden runoff shall be of the dimensions shown on the plans.
8. Rock filter dam types 2 & 3 shall be secured with 20 gauge galvanized woven wire mesh with 1" diameter hexagonal openings. The aggregate shall be placed on the mesh to the height & slopes specified. The mesh shall be folded at the upstream side over the aggregate and tightly secured to itself on the downstream side using wire ties or hog rings. For in stream use, the mesh should be secured or staked to the stream bed prior to aggregate placement.
9. Sack Gabions should be staked down with ¾" dia. rebar stakes, and have a double-twisted hexagonal weave with a nominal mesh opening of 2 ½" x 3 ¼"
10. Flow outlet should be onto a stabilized area (vegetation, rock, etc.).
11. The guidelines shown hereon are suggestions only and may be modified by the Engineer.

PLAN SHEET LEGEND

Type 1 Rock Filter Dam — RFD1
Type 2 Rock Filter Dam — RFD2
Type 3 Rock Filter Dam — RFD3
Type 4 Rock Filter Dam — RFD4

Texas Department of Transportation
Design Division Standard

TEMPORARY EROSION, SEDIMENT AND WATER POLLUTION CONTROL MEASURES
ROCK FILTER DAMS
EC(2)-16

FILE: ec216	DN: TxDOT	CK: KM	DW: VP	DN/CK: LS
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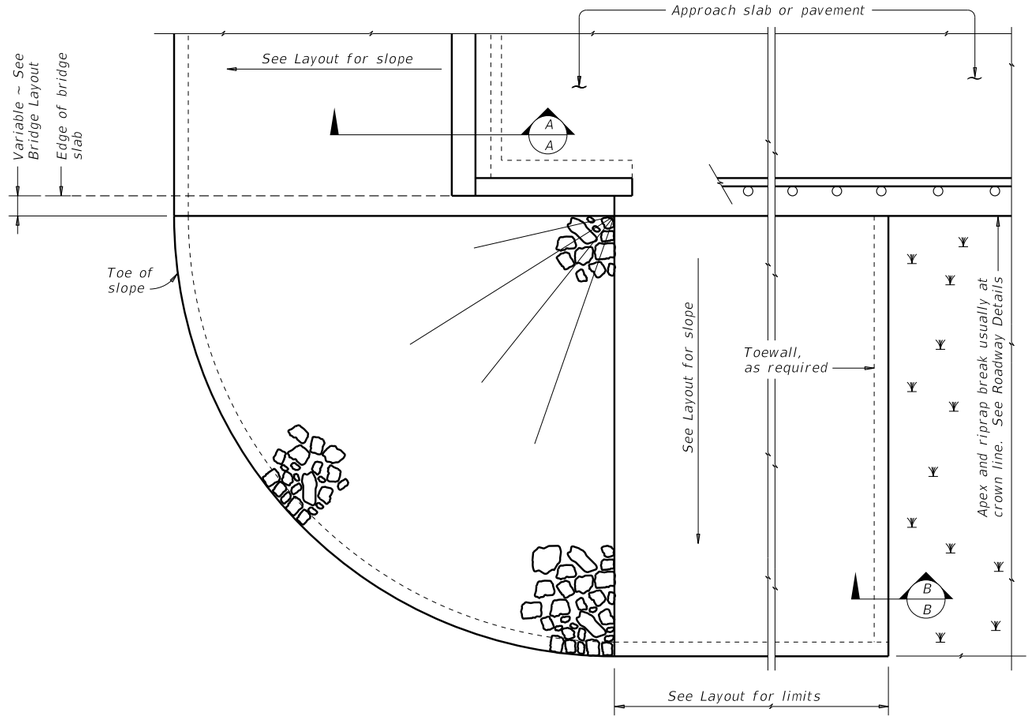
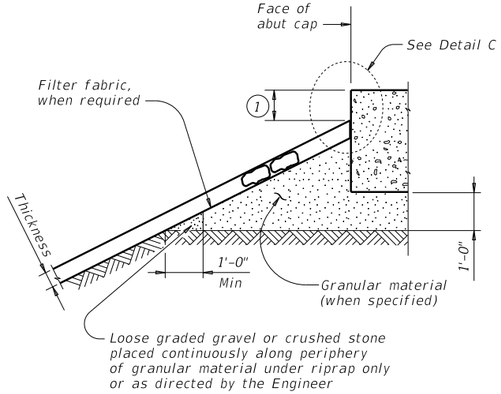
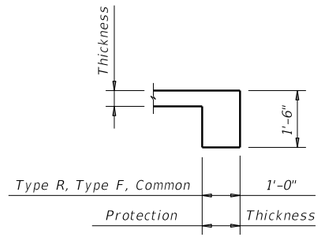


PLAN

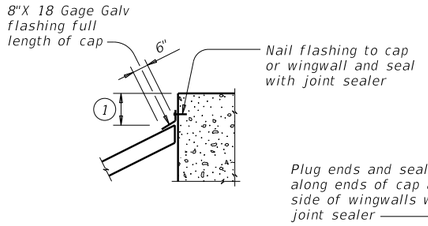


SECTION A-A AT CAP

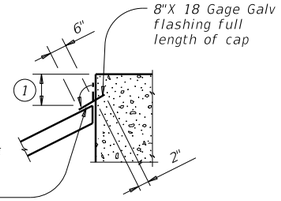


SECTION B-B

Provide toewall when shoulder drain is located adjacent to limits of stone riprap. Omit toewall when thickness of protection riprap is greater than 18".

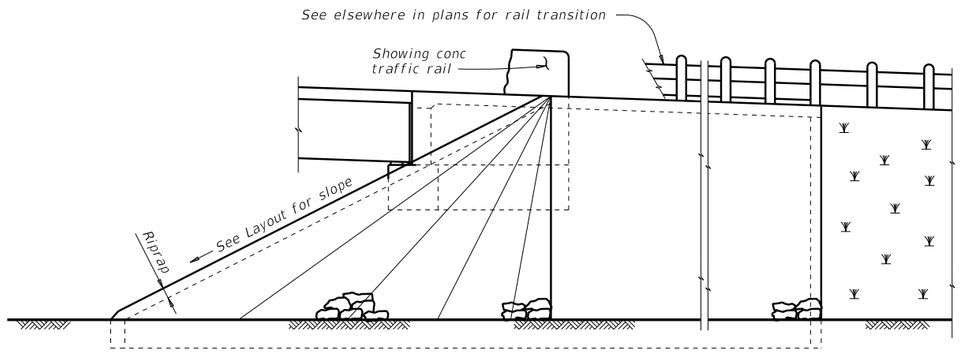


CAP OPTION A



CAP OPTION B

DETAIL C



ELEVATION

(1) Top of cap to top of riprap dimension varies as directed by the Engineer. Provide 9" Min for beam/slab type bridges and 1'-6" for slab span, box beam, or slab beam bridges.

GENERAL NOTES:
Refer to Item 432, "Riprap" for stone size and gradation, and construction details. See Layout for limits and thickness of riprap specified.
See elsewhere in plans for locations and details of shoulder drains.

SHEET 1 OF 2

Texas Department of Transportation

Bridge Division Standard

STONE RIPRAP

SRR

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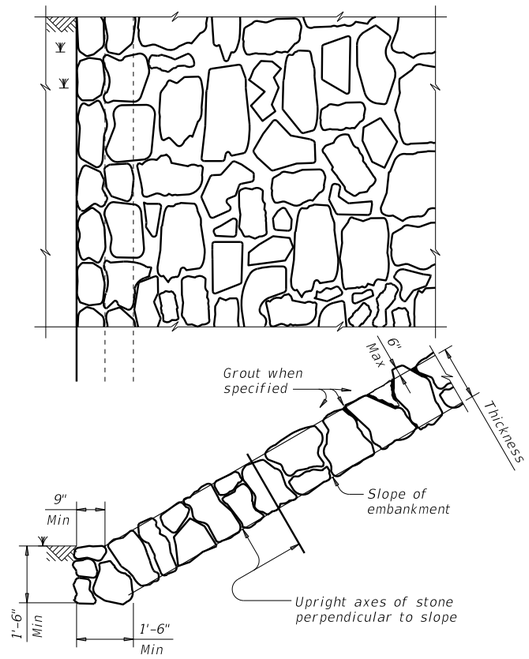

FIGURE 1 ~ TYPE R STONE RIPRAP

dry or grouted

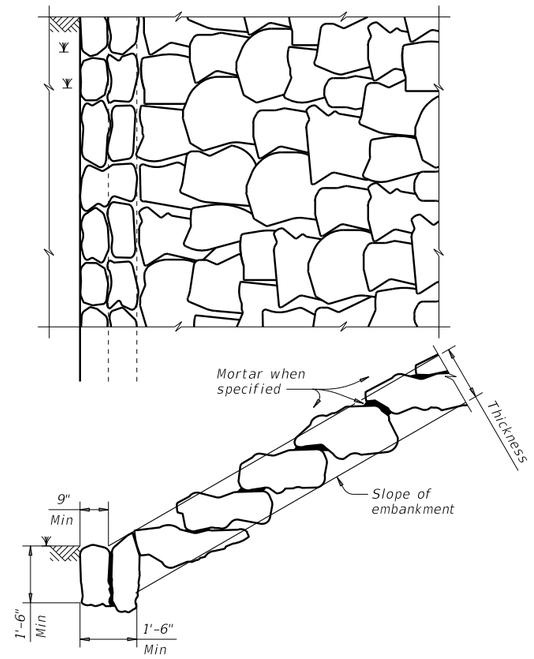

FIGURE 2 ~ TYPE F STONE RIPRAP

dry or mortared

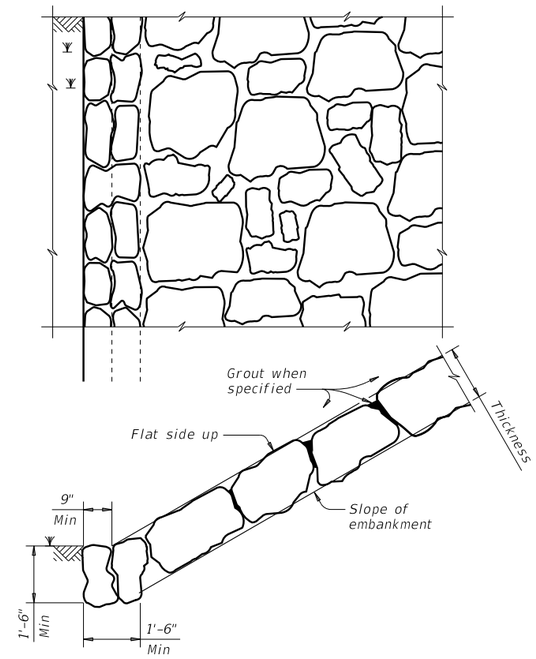

FIGURE 3 ~ TYPE F STONE RIPRAP

grouted

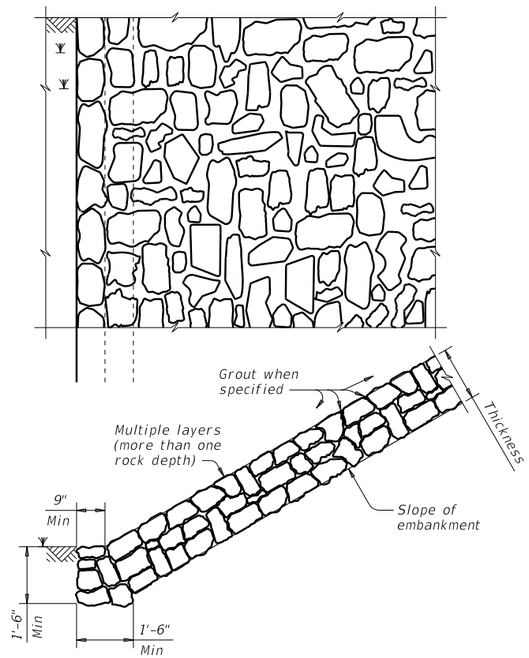

FIGURE 4 ~ COMMON STONE RIPRAP

dry or grouted

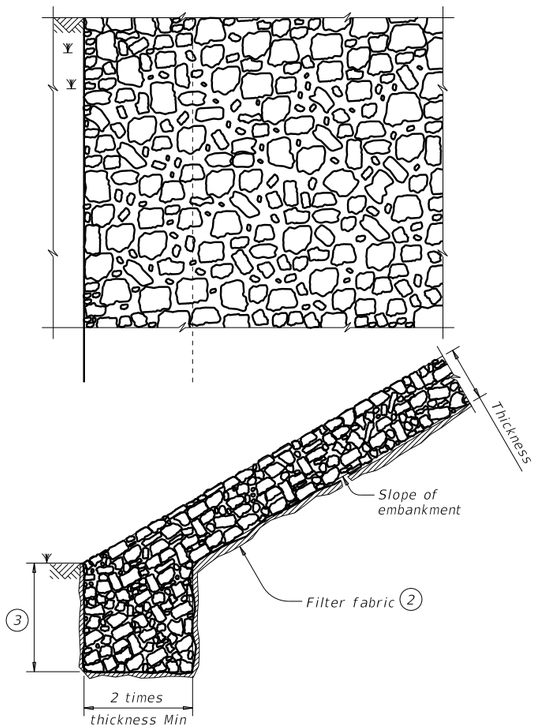

FIGURE 5 ~ PROTECTION STONE RIPRAP

(2) Provide bedding material instead of filter fabric if shown elsewhere in plans. See Layout for thickness of bedding material.

(3) Minimum toe depth is the larger of the maximum scour depth or 2 times the riprap thickness.

SHEET 2 OF 2

Texas Department of Transportation

Bridge Division Standard

STONE RIPRAP

SRR

FILE: srrstde1.dgn	DN: AES	CK: JGD	DW: BWH	CK: AES
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				75

BID FORM
FY19 CROSS CULVERT REPLACEMENTS
WILLIAMSON COUNTY, TEXAS

ITEM CODE		DESCRIPTION	UNITS	QUANTITY	UNIT PRICE	TOTAL PRICE
100	6001	PREPARING ROW	AC	2.74		
105	6037	REMOVING STAB BASE AND ASPH PAV(0"-16")	SY	202		
110	6001	EXCAVATION (ROADWAY)	CY	381		
132	6001	EMBANKMENT (FINAL)(ORD COMP)(TY A)	CY	384		
247	6366	FL BS (CMP IN PLC)(TY A GR 5)(FNAL POS)	CY	830		
334	6088	HMCL ACP TY-D AES-300	TON	23		
340	6004	D-GR HMA(SQ) TY-A PG64-22	TON	85		
340	6106	D-GR HMA(SQ) TY-D PG64-22	TON	295		
400	6001	STRUCT EXCAV	CY	1027		
402	6001	TRENCH EXCAVATION PROTECTION	LF	116		
432	6002	RIPRAP (CONC)(5 IN)	CY	40		
432	6027	RIPRAP (STONE COMMON)(DRY)(24 IN)	CY	116		
460	6011	CMP AR (GAL STL DES 4)	LF	116		
460	6012	CMP AR (GAL STL DES 5)	LF	122		
460	6024	CMP AR (GAL STL DES 7)	LF	0		
462	6021	CONC BOX CULV (8 FT X 6 FT)	LF	126		
462	6032	CONC BOX CULV (10 FT X 8 FT)	LF	96		
466	6063	HEADWALL (CH - FW - A - 0) (DES= 4)	EA	60		
466	6064	HEADWALL (CH - FW - A - 0) (DES= 5)	EA	2		
466	6066	HEADWALL (CH - FW - A - 0) (DES= 7)	EA	4		
466	6111	HEADWALL (CH - PW - A - 0) (DES= 4)	EA	2		
466	6123	HEADWALL (CH - PW - A - S) (DES= 7)	EA	2		
466	6123A	HEADWALL (CH - PW/FW - A - S) (DES= 7)	EA	1		
466	6169	WINGWALL (FW - S) (HW=8 FT)	EA	1		
466	6183	WINGWALL (PW - 1) (HW=8 FT)	EA	1		
466	6184	WINGWALL (PW - 1) (HW=9 FT)	EA	1		
467	6557	SET (TY II) (DES 5) (CMP) (4: 1) (C)	EA	2		
496	6006	REMOV STR (HEADWALL)	EA	10		
496	6007	REMOV STR (PIPE)	LF	574		
500	6001	MOBILIZATION	LS	1		
502	6001	BARRICADES, SIGNS AND TRAFFIC HANDLING	MO	3		
506	6002	ROCK FILTER DAMS (INSTALL) (TY 2)	LF	296		
506	6011	ROCK FILTER DAMS (REMOVE)	LF	296		
506	6038	TEMP SEDMT CONT FENCE (INSTALL)	LF	546		
506	6039	TEMP SEDMT CONT FENCE (REMOVE)	LF	515		
644	6068	RELOCATE SM RD SN SUP&AM TY 10BWG	EA	2		
658	6047	INSTL OM ASSM (OM-2Y)(WC)GND	EA	18		
666	6047	REFL PAV MRK TY I (W)24"(SLD)(090MIL)	LF	11		
666	6314	RE PM W/RET REQ TY I (Y)4"(SLD)(090MIL)	LF	290		
					PROJECT TOTAL COST:	

Agreement for Construction Services

This Agreement ("Agreement") between Williamson County, Texas, a political subdivision of the State of Texas ("Owner") and _____ ("Contractor") is entered into in accordance with the following terms and conditions:

ARTICLE 1 SCOPE OF WORK: The Owner desires to retain Contractor to provide the construction services described herein. The Contractor shall have the overall responsibility for and shall provide complete construction services and furnish all materials, equipment, tools and labor as necessary or reasonably inferable to complete the following described construction services, or any phase of such services, in accordance with the Owner's requirements and the terms of this Agreement (hereinafter collectively referred to as the "Work"):

As described in the _____ Solicitation # _____, _____; including the specifications set forth therein, which is incorporated herein as if copied in full.

ARTICLE 2 CONTRACT PRICE: Owner agrees to pay to the Contractor, for the satisfactory performance of the Work, the not-to-exceed amount of _____ ($_____) in accordance with the terms and conditions of this Agreement.

ARTICLE 3 PLANS AND SPECIFICATIONS: The Work shall be performed pursuant to and in accordance with the following described plans and specifications, as well as any revisions made thereto:

As described in the _____ Solicitation # _____, including the specifications set forth therein, which is incorporated herein as if copied in full.

Additional Work: Should Owner choose to add additional work, such additional work shall be described in a separate written amendment to this Agreement wherein the additional work shall be described and the parties shall set forth the amount of compensation to be paid by Owner for the additional work. Contractor shall not begin any additional work and Owner shall not be obligated to pay for any additional work unless a written amendment to this Agreement has been signed by both parties.

ARTICLE 4 SUBSTANTIAL AND FINAL COMPLETION:

4.1 Commencement of Work. Contractor shall commence the Work upon instruction to do so from the Owner and Construction shall be deemed to have commenced on the date of such instruction.

4.2 Substantial Completion. "Substantial Completion" means the stage in the progress of the Work when the Work, or designated portions thereof, may still require minor modifications or adjustments but, in the Owner's opinion, the Work has progressed to the point such that all parts of the Work under consideration are fully operational and usable for intended purposes, as evidenced by a Certificate of Substantial Completion approved by the Owner. If a Certificate of Occupancy is required by public authorities having jurisdiction over the Work, said certificate shall be issued before the Work or any portion thereof is considered substantially complete. When the Contractor considers that the Work, or a portion thereof which the Owner agrees to accept separately, is substantially complete, the Contractor shall notify Owner's Designated Representative (sometimes referred to as the "ODR") and request a determination as to whether the Work or designated portion thereof is substantially complete. If the ODR does not consider the Work substantially complete, the ODR will notify the Contractor giving reasons therefore. Failure on the Owner's part to list a reason does not alter the responsibility of the Contractor to complete all Work in accordance with the terms of this Agreement. After satisfactorily completing items identified by Owner's Designated Representative, the Contractor shall then submit another request for the ODR to determine Substantial Completion. If The ODR considers the Work substantially complete, The ODR will prepare and deliver a certificate of Substantial Completion which shall establish the date of Substantial Completion, shall include a punch list of items to be completed or corrected before final completion and final payment, shall establish the time within which the Contractor shall finish the punch list, and shall establish responsibilities of the Owner and the Contractor for security, maintenance, heat, utilities, damage to the Work, warranty and insurance. Failure to include an item on the punch list does not alter the responsibility of the Contractor to complete all Work in accordance with the terms and conditions of this Agreement. The certificate of Substantial Completion shall be signed by the Owner and the Contractor to evidence acceptance of the responsibilities assigned to them in such certificate.

Substantial Completion (as defined in this agreement) for all stages of the Work shall be achieved on or before the following Substantial Completion date:

DATE FOR SUBSTANTIAL COMPLETION: _____

Under no circumstances will the time for Substantial Completion exceed this date without a written amendment to this Agreement. **THE TIMES SET FORTH IN THE CONSTRUCTION DOCUMENTS ARE AN ESSENTIAL ELEMENT OF THE AGREEMENT. TIME LIMITS STATED IN THE CONTRACT DOCUMENTS ARE OF THE ESSENCE OF THIS AGREEMENT.**

4.3 Final Completion. The Work shall be fully and finally completed **on or before _____**; provided, however, Owner may extend said time period in the event bad weather affects the progress of the Work. Owner shall, at its sole discretion, determine when the Work has been fully and finally completed to its satisfaction.

4.4 Liquidated Damages. For each consecutive calendar day after the date of Substantial Completion that the Work is not Substantially Complete, the Owner may deduct the amount of **_____**from any money due or that becomes due the Contractor, not as a penalty but as liquidated damages representing the parties' estimate at the time of contract execution of the damages that the Owner will sustain for late completion. The parties stipulate and agree that calculating Owner's actual damages for late completion of the Work would be impractical, unduly burdensome, and cause unnecessary delay and that the amount of daily liquidated damages set forth is reasonable.

ARTICLE 5 PAYMENT:

Contractor shall have a duty to submit to the ODR by the end of each month a statement showing the total value of the Work performed during such month. The statement shall also include the value of all sound materials delivered on the Work site and to be included in the Work and all partially completed Work, whether bid as a lump sum or a unit item, which in the opinion of the ODR is acceptable. The ODR shall examine and approve or modify and approve such statement. The Owner shall then pay the Contractor pursuant to Chapter 2251 of the Texas Government Code ("Texas Prompt Payment Act"), as set forth in Article 11.1 of this Agreement, the total amount of the approved statement less all previous payments and all further sums that may by retained by the Owner under the terms of this Agreement or under the law. **Statements are not considered "received" until reviewed by the ODR and an approved statement is submitted to the Williamson County Auditor's Office; therefore, Contractor must ensure timely delivery of statements for review and processing.**

At any time following the completion of all Work, including all punch list items, cleanup, and the delivery of record documents, the Contractor shall submit a certified application for final payment, including all sums held as retainage if any, to the ODR for its review and approval. Contractor shall submit, prior to or with the application for final payment, final copies of all close out documents, including maintenance and operating instructions, guarantees and warranties, certificates, and all other items required by this Agreement. Contractor shall also submit consent of surety to final payment, an affidavit that all payrolls, bills for materials and equipment, subcontracted work and other indebtedness connected with the Work, except as specifically noted, have been paid or will be paid or otherwise satisfied within the period of time required by Chapter 2251, Texas Government Code. Contractor shall furnish documentation establishing payment or satisfaction of all such obligations, such as receipts, releases and waivers of claims arising out of the Agreement. Owner is entitled to rely upon this affidavit and the Contractor may not submit a claim on behalf of a subcontractor or vendor if that claim has not been noted as an exception in the affidavit.

Owner may deduct from the final payment all sums due from Contractor for any reason, Liquidated Damages and all other deductions authorized by this Agreement.

Final payment shall constitute a waiver of all claims by the Contractor except those specifically identified in writing and submitted to the ODR prior to the application for final payment. Provided, however, that the Work shall not be deemed fully performed by the Contractor and closed until the expiration of all warranty periods.

ARTICLE 6 CONTRACTOR'S GENERAL RESPONSIBILITIES AND COVENANTS:

6.1 Contractor shall perform all services specifically allocated to it hereunder, as well as those services reasonably inferable and necessary for completion of the Work. The Contractor shall keep the Owner informed of the progress and quality of the Work. Contractor agrees and acknowledges that Owner is entering into this Agreement in reliance on Contractor's represented expertise and ability to provide the Work described in this Agreement. Contractor agrees to use its best efforts, skill, judgment, and abilities to perform its obligations in accordance with the highest standards used in the profession and to further the interests of Owner in accordance with Owner's requirements and procedures.

6.2 Contractor's duties as set forth herein shall at no time be in any way diminished by reason of any approval by the Owner nor shall the Contractor be released from any liability by reason of such approval by the Owner, it being understood that the Owner at all times is ultimately relying upon the Contractor's skill and knowledge in performing the services required hereunder.

6.3 Contractor is responsible for initiating, maintaining, and supervising all safety precautions and programs in connection with the Work. The safety program shall comply with all applicable requirements of the current federal Occupational Safety and Health Act and all other applicable federal, state and local laws and regulations.

6.4 Contractor shall be an independent contractor under this Agreement and shall assume all of the rights, obligations, liabilities, applicable to it as such independent contractor hereunder and any provisions in this agreement which may appear to give Owner the right to direct Contractor as to details of doing the Work herein covered or to exercise a measure of control over the Work shall be deemed to mean that Contractor shall follow the desires of Owner in the results of the Work only. Owner shall not retain or have the right to control the Contractor's means, methods or details pertaining to the Contractor's performance of the Work described herein, nor shall Owner have the power to direct the order in which Contractor's Work is performed under this agreement. Owner and Contractor hereby agree and declare that Contractor is an Independent Contractor and as such meets the qualifications of an Independent Contractor under Texas Worker's Compensation Act, Texas Labor Code, Section 406.141, that the Contractor is not an employee of Owner for purposes of this Agreement, and that the Contractor and its employees, agents and sub-subcontractors shall not be entitled to worker's compensation coverage or any other type of insurance coverage held by Owner.

6.5 As part of Contractor obligation to coordinate the Work, Contract shall:

a. cooperate with the ODR and endeavor to further the interests of the Owner and the Work;
b. provide an on-site, full-time superintendent for the duration of the Work;
c. visit the Work site and inspect the existing facilities, systems and conditions to insure an accurate understanding of the existing conditions as required;
d. at Owner's request, attend public meetings and hearings concerning the development of the Work;
e. review all drawings, specifications, and other plans as they are developed by the Owner and/or its architect and advise Owner of any error, inconsistency or omission discovered in the drawings, specifications, and other plans;
f. review the drawings, specifications, and other plans for compliance with all applicable laws and code requirements;
g. advise Owner of any tests that should be performed;
h. organize and maintain a competent, full-time staff at the Work site with clearly defined lines of authority and communication as necessary to coordinate construction activities, monitor and direct progress of the Work;
i. attend Owner's regularly scheduled Work progress meetings and fully advise the ODR of the Work status including schedule, costs, quality and changes;
j. assist Owner in obtaining building permits and obtain special permits for permanent improvements as required by law; and
k. shall coordinate, monitor and inspect the Work of subcontractors to ensure conformance with the drawings, specifications, other plans and with the terms of this Agreement.

6.6 Contractor shall identify every subcontractor it intends to use for the Work to the Owner in writing at least ten (10) days before entering into any subcontract. Contractor shall not use any subcontractor to which Owner has a reasonable objection. If Owner does not object to a particular subcontractor with said ten (10) days, such subcontract may be considered acceptable to Owner. Following Owner's acceptance of a subcontractor, that subcontractor shall not be changed without Owner's written consent, which shall not be unreasonably withheld.

6.7 Contractor's designated representative, which is set forth below Contractor's signature herein below, shall be responsible for the day-to-day management of the Work on behalf of Contractor. The designated representative shall be the Owner's primary contact during the Work and shall be available as required for the benefit of the Work and the Owner. The contractor's designated representative shall be authorized to act on behalf of and bind the Contractor in all matters related to the Work including, but not limited to, execution of Change Orders.

6.8 NO ALTERATIONS OR CHANGES SHALL BE MADE, HOWEVER, EXCEPT UPON THE WRITTEN ORDER OF THE OWNER, OR THE ODR.

6.9 Contractor shall promptly correct any defective Work at Contractor's sole expense, unless the Owner specifically agrees, in writing, to accept the Work.

6.10 Contractor shall maintain and deliver the close out documents that describe changes or deviations from the original drawings, specifications and plans that occurred during construction and that reflect the actual "As Built" conditions of the completed Work.

COMMISSIONING AND WARRANTY RESPONSIBILITIES

6.11 Contractor shall provide commissioning, starting and check-out services for the systems installed as a part of the Work prior to completion and acceptance. Operation manuals and instructions will be provided to the Owner, the systems will be demonstrated and training provided to Williamson County's operators upon completion and prior to acceptance.

6.12 Contractor hereby warrants that the materials and equipment provided for the Work will be of good quality and new unless otherwise required or permitted by the Owner; that the construction will be free from faults and defects; and that the construction will conform with the requirements of the plans, specifications, drawings and the terms of this Agreement.

6.13 Contractor shall provide warranty services for the Work for a full **12 months** (30 months for Work involving mechanical services, if any) following Final Completion and final payment. Just before the warranty period expires, Contractor shall attend an on-site meeting with the Owner to ensure that all warranty issues have been identified and properly remedied.

ARTICLE 7 OWNER'S RESPONSIBILITIES

7.1 The Owner shall:

a. provide the general schedule for the Work provided Owner is of the opinion such schedule is necessary. The general schedule will set forth the Owner's plan for milestone dates and completion of the Work;
b. identify a person as its ODR who is authorized to act in the Owner's behalf with respect to the Work. The ODR shall examine the documents submitted by the Contractor and shall render decisions on behalf of the Owner to the extent allowed by Texas law;

c. at Owner's cost, will secure the services of surveyors, soils engineers, existing facility surveys, testing and balancing, environmental surveys or other special consultants to develop such additional information as may be necessary for the design or construction of the Work;
d. furnish required information and services and shall render approvals and decisions as expeditiously as is consistent with reasonable skill and care and the orderly progress of the Contractor's services and of the Work;
e. shall have the right to reject any defective Work. Should Contractor refuse or neglect to correct any such Work within a reasonable time after notice, Owner may have the Work corrected and recover all expenses incurred from Contractor on demand; and
f. Owner shall furnish to the Contractor a sufficient number of plans, drawings and specifications sets.

ARTICLE 8 INSURANCE AND INDEMNITY

8.1 Insurance. The Contractor shall carry insurance in the types and amounts indicated below for the duration of the Agreement, which shall include items owned by Owner in the care, custody and control of Contractor prior to and during construction. Contractor must also complete and file the declaration pages from the insurance policies with Owner whenever a previously identified policy period expires during the term of the Agreement, as proof of continuing coverage. Contractor shall update all expired policies prior to submission of any payment requests hereunder. Failure to update policies shall be reason for payment to be withheld until evidence for renewal is provided to the Owner.

8.1.1 The Contractor shall provide and maintain, until the Work covered in this Agreement is completed and accepted by the Owner, the minimum insurance coverage in the minimum amounts as described below. Coverage shall be written on an occurrence basis by companies authorized and admitted to do business in the State of Texas and rated A- or better by A.M. Best Company or otherwise acceptable to Owner.

Type of Coverage	Limits of Liability
a. Worker's Compensation	Statutory
b. Employer's Liability	
Bodily Injury by Accident	$500,000 Ea. Accident
Bodily Injury by Disease	$500,000 Ea. Employee
Bodily Injury by Disease	$500,000 Policy Limit

c. Comprehensive general liability including completed operations and contractual liability insurance for bodily injury, death, or property damages in the following amounts:

COVERAGE	PER PERSON	PER OCCURRENCE
Comprehensive General Liability (*including premises, completed operations and contractual*)	$ 1,000,000	$ 1,000,000
Aggregate policy limits:		$2,000,000

d. Comprehensive automobile and auto liability insurance (covering owned, hired, leased and non-owned vehicles):

COVERAGE	PER PERSON	PER OCCURRENCE
Bodily injury (including death)	$1,000,000	$1,000,000
Property damage	$1,000,000	$1,000,000
Aggregate policy limits	No aggregate limit	

e. Builder's Risk Insurance
(*all risks*)

An all risks policy shall be in the amount equal at all times to 100% of the Contract Sum. The policy shall include coverage for loss or damage caused by certified acts of terrorism as defined in the Terrorism Risk Insurance Act. The policy shall be issued in the name of the Contractor and shall name his Subcontractors as additional insureds. The Owner shall be named as a loss payee on the policy. The builders risk policy shall have endorsements as follow:

1. This insurance shall be specific as to coverage and not considered as contributing insurance with any permanent insurance maintained on the present premises. If off-site storage is permitted, coverage shall include transit and storage in an amount sufficient to protect property being transported or stored.

2. For renovation projects and or portions of work contained within an existing structure, the Owner waives subrogation for damage by fire to existing building structure(s), if the Builder's Risk Policy has been endorsed to include coverage for existing building structure(s) in the amount described in the Special Conditions. However, Contractor shall not be required to obtain such an endorsement unless specifically required by the Special Conditions., in this Agreement. The aforementioned waiver of subrogation shall not be effective unless such endorsement is obtained.

f. Umbrella coverage in the amount of not less than $1,000,000.

8.1.2 The above insurance requirements are not intended to be compounded with the Contractor's standing insurance policies. If the Contractor already has in force insurance policies which provide the required coverage, there is no need to purchase duplicate coverage for this Work.

8.1.3 Policies must include the following clauses, as applicable.

a. "This insurance shall not be canceled, limited in scope or coverage, or non-renewed until after thirty (30) days prior written notice, or ten (10) days for non-payment of premium, has been given to Williamson County."
b. "It is agreed that the Contractor's insurance shall be deemed primary with respect to any insurance or self insurance carried by Williamson County for liability arising out of operations under the Agreement with Williamson County."
c. "Williamson County, it officials, directors, employees, representatives, and volunteers are added as additional insured as respects operations and activities of, or on behalf of the named insured performed under Agreement with the Owner." This is not applicable to the workers' compensation policy.
d. "The workers' compensation and employers' liability policy will provide a waiver of subrogation in favor of Williamson County."

8.1.4 Workers' Compensation Insurance Coverage:

In the event that Contractor employs any individual to perform any portion of the Work, Contractor shall comply with Texas Labor Code, §406.096, which requires workers' compensation insurance coverage for all employees providing services on a building or construction project for a governmental entity.

a. Definitions:

(1) Certificate of Coverage ("certificate") - A copy of a certificate of insurance, a certificate of authority to self-insure issued by the Texas Workers' Compensation Commission, or a coverage agreement (TWCC-81, TWCC-82, TWCC-83, or TWCC-84), showing statutory workers' compensation insurance coverage for the person's or entity's employees providing services on a project, for the Duration of the Work.

(2) Duration of the Work - includes the time from the beginning of the Work until the Work has been completed and accepted by the Owner.

(3) Coverage – Workers' compensation insurance meeting the statutory requirements of the Texas Labor Code, §401.011(44).

(4) Persons providing services relating to the Work ("subcontractor") - includes all persons or entities performing all or part of the services the Contractor has undertaken to perform the Work, regardless of whether that person contracted directly with the Contractor and regardless of whether that person has employees. This includes, without limitation, independent contractors, subcontractors, leasing companies, motor carriers, owner-operators, employees of any such entity, or employees of any entity which furnishes persons to provide services in relation to the Work. "Services" include, without limitation, providing, hauling, or delivering equipment or materials, or providing labor, transportation, or other service related to a project. "Services" does not include activities unrelated to the Work, such as food/beverage vendors, office supply deliveries, and delivery of portable toilets.

b. The Contractor shall provide Coverage, based on proper reporting of classification codes and payroll amounts and filing of any Coverage agreements, which meets the statutory requirements of Texas labor Code, §401.011(44) for all employees of the Contractor providing services in relation to the Work, for the Duration of the Work.

c. The Contractor must provide a Certificate of Coverage to the Owner prior to or contemporaneously with the execution of this Agreement.

d. If the Coverage period shown on the Contractor's current Certificate of Coverage ends during the Duration of the Work, the Contractor must, prior to the end of the Coverage period, file a new Certificate of Coverage with the Owner showing that Coverage has been extended.

e. The Contractor shall obtain from each person providing services in relation to the Work, and provide to the Owner:

(1) a Certificate of Coverage, prior to that person beginning any of the Work, so the Owner will have on file Certificates of Coverage showing Coverage for all persons providing services in relation to the Work; and

(2) no later than seven days after receipt by the Contractor, a new Certificate of Coverage showing extension of Coverage, if the Coverage period shown on the current Certificate of Coverage ends during the Duration of the Work.

f. The Contractor shall retain all required Certificates of Coverage for the Duration of the Work and for one year thereafter.

g. The Contractor shall notify the Owner in writing by certified mail or personal delivery, within 10 days after the Contractor knew or should have known, of any change that materially affects the provision of Coverage of any person providing services in relation to the Work.

h. The Contractor shall post on the Work site a notice, in the text, form and manner prescribed by the Texas Workers' Compensation Commission, informing all persons providing services in relation to the Work that they are required to be covered, and stating how a person may verify Coverage and report lack of Coverage.

i. By signing this Agreement or providing or causing to be provided a Certificate of Coverage, the Contractor is representing to the Owner that all employees of the Contractor who will provide services in relation to the Work and all persons providing services in relation to the Work will be covered by workers' compensation coverage for the Duration of the Work, that the coverage will be based on proper reporting of classification codes and payroll amounts, and that all coverage agreements will be filed with the appropriate insurance carrier or, in the case of a self-insured, with the commission's Division of Self-Insurance Regulation. Providing false or misleading information may subject the Contractor to administrative penalties, criminal penalties, civil penalties, or other civil actions.

j. The Contractor's failure to comply with any of these provisions is a breach of Agreement by the Contractor which entitles the Owner to declare the Agreement void if the Contractor does not remedy the breach within ten (10) days after receipt of notice of breach from the Owner.

8.1.5 The furnishing of the above listed insurance coverage must be tendered prior to execution of the Agreement, and in no event later than ten (10) calendar days from Notice of Award. Failure to provide the insurance in a timely fashion may result in loss of Contractor's bid bond.

8.1.6 The Contractor shall not cause or allow any of its required insurance to be canceled, nor permit any insurance to lapse during the term of the Agreement or as required in the Agreement. If the Contractor fails to obtain, maintain or renew any insurance required by this Agreement, the Owner may, among other remedies available hereunder or at law, obtain insurance coverage directly and recover the cost of that insurance from the Contractor or declare this Agreement void if the Contractor does not remedy the breach within ten (10) days after receipt of notice of breach from the Owner.

8.1.7 The Owner reserves the right to review the insurance requirements set forth in this Article during the effective period of the Agreement and to make reasonable adjustments to the insurance coverage and their limits when deemed necessary and prudent by the Owner based upon changes in statutory law, court decisions, or the claims history of the industry as well as the Contractor.

8.1.8 The Owner shall be entitled, upon request, and without expense, to receive complete copies of the policies with all endorsements and may make any reasonable requests for deletion, or revision or modification of particular policy terms, conditions, limitations, or exclusions, except where policy provisions are established by law or regulation binding upon the Parties or the underwriter of any of such polices. Damages caused by the Contractor and not covered by insurance shall be paid by the Contractor.

8.1.9 Contractor shall be responsible for payment of premiums for all of the insurance coverages required under this Agreement. Contractor further agrees that for each claim, suit or action made against insurance provided hereunder, with respect to all matters for which the Contractor is responsible hereunder, Contractor shall be solely responsible for all deductibles and self-insured retentions. **Any deductibles or self-insured retentions over $50,000 in the Contractor's insurance must be declared and approved in writing by Owner in advance.**

8.1.10 The Contractor shall contractually require each person or entity with whom it contracts to provide services in relation to the Work, to comply with each and every insurance requirement that Contractor must comply with hereunder. More specifically, each person or entity with whom Contractor contracts to provide services on the in relation to the Work must comply with each insurance requirement under this Article 8 just as if such person or entity was the Contractor. Thus, every reference to Contractor under each insurance requirement of this Article 8 shall mean and include each person or entity with whom Contractor contracts to provide services in relation to the Work. If any such person or entity with whom Contractor contracts to provide services in relation to the Work fails to obtain, maintain or renew any insurance required by this Agreement, the Owner may, among other remedies available hereunder or at law, obtain insurance coverage directly and recover the cost of that insurance from the Contractor or declare this Agreement void if the Contractor does not remedy the breach within ten (10) days after receipt of notice of breach from the Owner.

8.2 INDEMNITY.

8.2.1 INDEMNIFICATION - EMPLOYEE PERSONAL INJURY CLAIMS. TO THE FULLEST EXTENT PERMITTED BY LAW, THE CONTRACTOR SHALL INDEMNIFY, DEFEND (WITH COUNSEL OF OWNER'S CHOOSING), AND HOLD HARMLESS OWNER, AND OWNER'S EMPLOYEES, AGENTS, REPRESENTATIVES, PARTNERS, OFFICERS, AND DIRECTORS (COLLECTIVELY, THE "INDEMNITEES") AND SHALL ASSUME ENTIRE RESPONSIBILITY AND LIABILITY (OTHER THAN AS A RESULT OF INDEMNITEES' GROSS NEGLIGENCE) FOR ANY CLAIM OR ACTION BASED ON OR ARISING OUT OF THE PERSONAL INJURY, OR DEATH, OF ANY EMPLOYEE OF THE CONTRACTOR, OR OF ANY SUBCONTRACTOR, OR OF ANY OTHER ENTITY FOR WHOSE ACTS THEY MAY BE LIABLE, WHICH OCCURRED OR WAS ALLEGED TO HAVE OCCURRED ON THE WORK SITE OR IN CONNECTION WITH THE PERFORMANCE OF THE WORK. CONTRACTOR HEREBY INDEMNIFIES THE INDEMNITEES EVEN TO THE EXTENT THAT SUCH PERSONAL INJURY WAS CAUSED OR ALLEGED TO HAVE BEEN CAUSED BY THE SOLE, COMPARATIVE OR CONCURRENT NEGLIGENCE OF THE STRICT LIABILITY OF ANY INDEMNIFIED PARTY. THIS INDEMNIFICATION SHALL NOT BE LIMITED TO DAMAGES, COMPENSATION, OR BENEFITS PAYABLE UNDER INSURANCE POLICIES, WORKERS COMPENSATION ACTS, DISABILITY BENEFITS ACTS, OR OTHER EMPLOYEES BENEFIT ACTS.

8.2.2 INDEMNIFICATION - OTHER THAN EMPLOYEE PERSONAL INJURY CLAIMS. TO THE FULLEST EXTENT PERMITTED BY LAW, CONTRACTOR SHALL INDEMNIFY, DEFEND (WITH COUNSEL OF OWNER'S CHOOSING), AND HOLD HARMLESS OWNER, AND OWNER'S EMPLOYEES, AGENTS, REPRESENTATIVES, PARTNERS, OFFICERS, AND DIRECTORS (COLLECTIVELY, THE "INDEMNITEES") FROM AND AGAINST CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING BUT NOT LIMITED TO ATTORNEYS' FEES, ARISING OUT OF OR ALLEGED TO BE RESULTING FROM THE PERFORMANCE OF THIS AGREEMENT OR THE WORK DESCRIBED HEREIN, TO THE EXTENT CAUSED BY THE NEGLIGENCE, ACTS, ERRORS, OR OMISSIONS OF CONTRACTOR OR ITS SUBCONTRACTORS, ANYONE EMPLOYED BY THEM OR ANYONE FOR WHOSE ACTS THEY MAY BE LIABLE, REGARDLESS OF WHETHER OR NOT SUCH CLAIM, DAMAGE, LOSS OR EXPENSE IS CAUSED IN WHOLE OR IN PART BY A PARTY INDEMNIFIED HEREUNDER.

8.3 Except for the obligation of Owner to pay Contractor the Contract Price pursuant to the terms of this Agreement, and to perform certain other obligations pursuant to the terms and conditions explicitly set forth herein, Owner shall have no liability to Contractor or to anyone claiming through or under Contractor by reason of the execution or performance of this Agreement. Notwithstanding any obligation or liability of Owner to Contractor, no present or future partner or affiliate of Owner or any agent, officer, director, or employee of Owner, Williamson County, or of the various departments comprising Williamson County, or anyone claiming under Owner has or shall have any personal liability to Contractor or to anyone claming through or under Contractor by reason of the execution or performance of this Agreement.

ARTICLE 9 BONDS

9.1 Performance Bond. Upon execution of this Agreement, Contractor shall provide a Performance Bond in the amount of 100% of the Contract Price. The surety for a Performance Bond shall meet the requirements of Texas law.

9.2 Payment Bond. Upon execution of this Agreement, Contractor shall provide a Payment Bond in the amount of 100% of the Contract Price, as security for the true and faithful payment in full of all subcontractors and persons performing labor, services, materials, machinery, and fixtures in connection with the Work. The surety for a Payment Bond shall meet the requirements of Texas law.

9.3 Warranty Bond. Upon execution of this Agreement, Contractor shall provide a Warranty Bond in the amount of 20% of the Contract Price, as security for the true and faithful performance of all warranties set forth in Bid Documents and this Agreement.

ARTICLE 10 TERMINATION

10.1 Termination for Cause. If either party commits an Event of Breach (a breach of any of the covenants, terms and/or conditions of this Agreement), the non-breaching party shall deliver written notice of such Event of Breach to the breaching party. Such notice must specify the nature of the Event of Breach and inform the breaching party that unless the Event of Breach is cured within three (3) business days of receipt of the notice, additional steps may be taken to terminate this Agreement. If the breaching party begins a good faith attempt to cure the Event of Breach within three (3) business days, then and in that instance, the three (3) business day period may be extended by the non-breaching party, so long as the breaching party continues to prosecute a cure diligently to completion and continues to make a good faith attempt to cure the Event of Breach. If, in the opinion of the non-breaching party, the breaching party does not cure the breach within three (3) business days or otherwise fails to make any diligent attempt to correct the Event of Breach, the breaching party shall be deemed to be in breach and the non-breaching party may, in addition to seeking the remedies available hereunder and under the law, terminate this Agreement.

10.2 Termination for Convenience. The Owner may terminate this Agreement for convenience and without cause or further liability upon thirty (30) days written notice to Contractor. In the event of such termination, it is understood and agreed that only the amounts due to Contractor for goods, commodities and/or services provided and expenses incurred to and including the date of termination, will be due and payable. No penalty will be assessed for Owner's termination of this Agreement for convenience.

ARTICLE 11 MISCELLANEOUS PROVISIONS

11.1 Interest and Late Payments. Except as otherwise specifically set forth herein, Owner's payment for goods and services shall be governed by Chapter 2251 of the Texas Government Code. Interest charges for any overdue payments shall be paid by Owner in accordance with Texas Government Code Section 2251.025. More specifically, the rate of interest that shall accrue on a late payment is the rate in effect on September 1 of Owner's fiscal year in which the payment becomes due. The said rate in effect on September 1 shall be equal to the sum of one percent (1%); and (2) the prime rate published in the Wall Street Journal on the first day of July of the preceding fiscal year that does not fall on a Saturday or Sunday.

In the event that an error appears in an invoice/application for payment submitted by Contractor, Owner shall notify Contractor of the error not later than the twenty first (21st) day after the date Owner receives the invoice/application for payment. If the error is resolved in favor of Contractor, Contractor shall be entitled to receive interest on the unpaid balance of the invoice/application for payment submitted by Contractor beginning on the date that the payment for the invoice/application for payment became overdue. If the error is resolved in favor of the Owner, Contractor shall submit a corrected invoice/application for payment that must be paid in accordance within the time set forth above. The unpaid balance accrues interest as provided by Chapter 2251 of the Texas Government Code if the corrected invoice/application for payment is not paid by the appropriate date.

11.2 Assignment; Successors and Assigns. This Agreement is a personal service contract for the services of Contractor, and Contractor's interest in this Agreement, duties hereunder and/or fees due hereunder may not be assigned or delegated to a third party. This Agreement shall be binding upon and inure to the benefit of parties hereto and their respective successors and assigns.

11.3 Captions. The captions of paragraphs in this Agreement are for convenience only and shall not be considered or referred to in resolving questions of interpretation or construction.

11.4 Governing Law and Venue. This Agreement and all of the rights and obligations of the parties and all of the terms and conditions shall be construed, interpreted and applied in accordance with and governed by and enforced under the laws of the State of Texas without reference to its conflicts of law provisions. Williamson County where the Work site is located shall be the sole place of venue for any legal action arising from or related to this Agreement or the project in which the Owner is a party.

11.5 Waivers. No delay or omission by either party in exercising any right or power arising from non-compliance or failure of performance by the other party with any of the provisions of this Agreement shall impair or constitute a waiver of any such right or power. A waiver by either party of any covenant or condition of this Agreement shall not be construed as a waiver of any subsequent breach of that or of any other covenant or condition of the Agreement.

11.6 Interpretation. In the event of any dispute over the meaning or application of any provision of the Contract Documents, the Contract Documents shall be interpreted fairly and reasonably, and neither more strongly for or against any party, regardless of the actual drafter of the Contract Documents.

11.7 Binding Effect. This Agreement shall be binding upon and inure to the benefit of the parties and their respective permitted assigns and successors.

11.8 Appointment. Owner hereby expressly reserves the right from time to time to designate by notice to Contractor a representative(s) to act partially or wholly for Owner in connection with the performance of Owner's obligations. Contractor shall act only upon instructions from the designated representative(s) unless otherwise specifically notified to the contrary.

11.9 Audits. Contractor agrees that Owner or its duly authorized representatives shall, until the expiration of three (3) years after final payment under this Agreement, have access to and the right to examine and photocopy any and all books, documents, papers and records of Contractor which are directly pertinent to the services to be performed under this Agreement for the purposes of making audits, examinations, excerpts, and transcriptions. Contractor agrees that Owner shall have access during normal working hours to all necessary Contractor facilities and shall be provided adequate and appropriate work space in order to conduct audits in compliance with the provisions of this section. Owner shall give Contractor reasonable advance notice of intended audits.

11.10 Severability. Should any term or provision of this Agreement be held invalid or unenforceable in any respect, the remaining terms and provisions shall not be affected and this Agreement shall be construed as if the invalid or unenforceable term or provision had never been included.

11.11 No Waiver of Immunities. Nothing in this Agreement shall be deemed to waive, modify or amend any legal defense available at law or in equity to Owner, its past or present officers, employees, or agents, nor to create any legal rights or claim on behalf of any third party. Owner does not waive, modify, or alter to any extent whatsoever the availability of the defense of governmental immunity under the laws of the State of Texas and of the United States.

11.12 Current Revenues. Under Texas law, a contract with a governmental entity that contains a claim against future revenues is void; therefore, each party paying for the performance of governmental functions or services must make those payments from current revenues available to the paying party.

11.13 Compliance with Laws. Contractor shall comply with all federal, state, and local laws, statutes, ordinances, rules and regulations, and the orders and decrees of any courts or administrative bodies or tribunals in any matter affecting the performance of this Agreement, including, without limitation, Worker's Compensation laws, minimum and maximum salary and wage statutes and regulations, licensing laws and regulations. When required, Contractor shall furnish the County with certification of compliance with said laws, statutes, ordinances, rules, regulations, orders, and decrees above specified.

11.14 Sales and Use Tax Exemption. Owner is a body corporate and politic under the laws of the State of Texas and claims exemption from sales and use taxes under Texas Tax Code Ann. § 151.309, as amended.

11.15 Texas Public Information Act. To the extent, if any, that any provision in this Agreement is in conflict with Tex. Gov't Code 552.001 *et seq.*, as amended (the "Public Information Act"), the same shall be of no force or effect. Furthermore, it is expressly understood and agreed that Owner, its officers and employees may request advice, decisions and opinions of the Attorney General of the State of Texas in regard to the application of the Public Information Act to any information or data furnished to Owner whether or not the same are available to the public. It is further understood that Owner, its officers and employees shall have the right to rely on the advice, decisions and opinions of the Attorney General, and that Owner, its officers and employees shall have no liability or obligation to Contractor for the disclosure to the public, or to any person or persons, of any software or a part thereof, or other items or data furnished to Owner by Contractor in reliance of any advice, decision or opinion of the Attorney General of the State of Texas.

11.16 Force Majeure. If the party obligated to perform is prevented from performance by an act of war, order of legal authority, act of God, or other unavoidable cause not attributable to the fault or negligence of said party, the other party shall grant such party relief from the performance of this Agreement. The burden of proof for the need of such relief shall rest upon the party obligated to perform. To obtain release based on force majeure, the party obligated to perform shall file a written request with the other party.

11.17 Equal Opportunity in Employment. The parties to this Agreement agree that during the performance of the services under this Agreement they will not discriminate against any employee or applicant for employment because of race, color, religion, sex, or national origin. The parties to this Agreement will take affirmative action to ensure that applicants are employed, and that employees are treated during employment, without regard to their race, color, religion, sex or national origin. Such action shall include, but not be limited to the following: employment, upgrading, demotion, or transfer; termination; rates of pay or other forms of compensation, and selection for training, including apprenticeship.

11.18 Reports of Accidents. Within 24 hours after Contractor becomes aware of the occurrence of any accident or other event which results in, or might result in, injury to the person or property of any third person (other than an employee of the Contractor), whether or not it results from or involves any action or failure to act by the Contractor or any employee or agent of the Contractor and which arises in any manner from the performance of this Agreement, the Contractor shall send a written report of such accident or other event to the County, setting forth a full and concise statement of the facts pertaining thereto. The Contractor shall also immediately send the County a copy of any summons, subpoena, notice, or other documents served upon the Contractor, its agents, employees, or representatives, or received by it or them, in connection with any matter before any court arising in any manner from the Contractor's performance of work under this Agreement.

11.19 Relationship of the Parties. Each party to this Agreement, in the performance of this Agreement, shall act in an individual capacity and not as agents, employees, partners, joint ventures or associates of one another. The employees or agents of one party shall not be deemed or construed to be the employees or agents of the other party for any purposes whatsoever.

11.20 Appropriation of Funds by Owner. Owner believes it has sufficient funds currently available and authorized for expenditure to finance the costs of this Agreement. Contractor understands and agrees that the Owner's payment of amounts under this Agreement is contingent on the Owner receiving appropriations or other expenditure authority sufficient to allow the Owner, in the exercise of reasonable administrative discretion, to continue to make payments under this Agreement.

11.21 Execution in Counterparts. This Agreement may be executed in counterparts, each of which, when executed and delivered, shall be deemed to be an original and all of which together shall constitute one and the same document.

11.22 Entire Agreement. This Agreement represents the entire and integrated agreement between the parties hereto and supersedes all prior negotiations, representations, or agreements, either oral or written. This Agreement may be amended only by written instrument signed by each party to this Agreement. NO OFFICIAL, EMPLOYEE, AGENT, OR REPRESENTATIVE OF THE OWNER HAS ANY AUTHORITY, EITHER EXPRESS OR IMPLIED, TO AMEND THIS AGREEMENT, EXCEPT PURSUANT TO SUCH EXPRESS AUTHORITY AS MAY BE GRANTED BY THE WILLIAMSON COUNTY COMMISSIONERS COURT.

BY SIGNING BELOW, the Parties have executed and bound themselves to this Agreement to be effective as of the date of the last party's execution hereof (Effective Date).

OWNER:

WILLIAMSON COUNTY, TEXAS,
a political subdivision of the state of Texas

By: _____

Printed Name: _____

Title: _____

Date: _____

CONTRACTOR:

By: _____

Printed Name: _____

Title: _____

Date: _____

Party Representatives

Owner's Designated Representative ("ODR"):

_____
_____
_____
_____
Phone _____
Fax _____

Contractor's Designated Representative:

_____
_____
_____
_____
Phone _____
Fax _____

BID AFFIDAVIT

This form must be completed, signed, notarized and returned with Bid package

The undersigned attests that the company named below, under the provisions of Subtitle F, Title 10, Texas Government Code Chapter 2270:

1. Does not boycott Israel currently; and
2. Will not boycott Israel during the term of the contract.

Pursuant to Section 2270.001, Texas Government Code:

1. "Boycott Israel" means refusing to deal with, terminating business activities with, or otherwise taking any action that is intended to penalize, inflict economic harm on, or limit commercial relations specifically with Israel, or with a person or entity doing business in Israel or in an Israeli-controlled territory, but does not include an action made for ordinary business purposes; and
2. "Company" means a for-profit sole proprietorship, organization, association, corporation, partnership, joint venture, limited partnership, or any limited liability company, including a wholly owned subsidiary, majority-owned subsidiary, parent company or affiliate of those entities or business associations that exist to make a profit.

The undersigned certifies that the IFB and the Bidder's Bid have been carefully reviewed and are submitted as correct and final. Bidder further certifies and agrees to furnish any and/or all goods and/or services upon which prices are extended at the price Bid, and upon the conditions contained in the IFB.

I hereby certify that the foregoing Bid has not been prepared in collusion with any other Bidder or other person or persons engaged in the same line of business prior to the official opening of this Bid. Further, I certify that the Bidder is not now, nor has been for the past six (6) months, directly or indirectly concerned in any pool or agreement or combination, to control the price of services/commodities Bid on, or to influence any person or persons to submit a Bid or not to submit a Bid thereon."

Name of Bidder:	
Address of Bidder:	
Email:	
Telephone:	
Printed Name of Person Submitting Affidavit:	
Signature of Person Submitting Affidavit:	

Cooperative Purchasing Program

Check one of the following options below. A non-affirmative Bid will in no way have a negative impact on the County's evaluation of the Bid.

☐	I will offer the quoted prices to all authorized entities during the term of the County's Contract.
☐	I will not offer the quoted prices to all authorized entities.

If no box is checked, the Bidder agrees to make best efforts in good faith to offer the quoted prices to all authorized entities.

BEFORE ME, the undersigned authority, a Notary Public, personally appeared _____ (*Name of Signer*), who after being by me duly sworn, did depose and say: "I, _____, (*Name of Signer*) am a duly authorized officer of/agent for _____ (*Name of Bidder*) and have been duly authorized to execute the foregoing on behalf of the said _____ (*Name of Bidder*).

SUBSCRIBED AND SWORN to before me by the above-named _____

on this the _____ day of _____, 20_____.

_____

Notary Public in and for

The State of _____

The County of _____

SIGNATURE AND NOTARY NOT REQUIRED IF COMPLETING IN BIDSYNC ELECTRONICALLY.

CONFLICT OF INTEREST QUESTIONNAIRE FORM CIQ

For vendor doing business with local governmental entity

This questionnaire reflects changes made to the law by H.B. 23, 84th Leg., Regular Session.

This questionnaire is being filed in accordance with Chapter 176, Local Government Code, by a vendor who has a business relationship as defined by Section 176.001(1-a) with a local governmental entity and the vendor meets requirements under Section 176.006(a).

By law this questionnaire must be filed with the records administrator of the local governmental entity not later than the 7th business day after the date the vendor becomes aware of facts that require the statement to be filed. *See* Section 176.006(a-1), Local Government Code.

A vendor commits an offense if the vendor knowingly violates Section 176.006, Local Government Code. An offense under this section is a misdemeanor.

OFFICE USE ONLY

Date Received

1 **Name of vendor who has a business relationship with local governmental entity.**

2 ☐ **Check this box if you are filing an update to a previously filed questionnaire.** (The law requires that you file an updated completed questionnaire with the appropriate filing authority not later than the 7th business day after the date on which you became aware that the originally filed questionnaire was incomplete or inaccurate.)

3 **Name of local government officer about whom the information is being disclosed.**

Name of Officer

4 Describe each employment or other business relationship with the local government officer, or a family member of the officer, as described by Section 176.003(a)(2)(A). Also describe any family relationship with the local government officer. Complete subparts A and B for each employment or business relationship described. Attach additional pages to this Form CIQ as necessary.

A. Is the local government officer or a family member of the officer receiving or likely to receive taxable income,other than investment income, from the vendor?

☐ Yes ☐ No

B.Is the vendor receiving or likely to receive taxable income, other than investment income, from or at the directionof the local government officer or a family member of the officer AND the taxable income is not received from the local governmental entity?

☐ Yes ☐ No

5 **Describe each employment or business relationship that the vendor named in Section 1 maintains with a corporation or other business entity with respect to which the local government officer serves as an officer or director, or holds an ownership interest of one percent or more.**

6 ☐ Check this box if the vendor has given the local government officer or a family member of the officer one or more gifts as described in Section 176.003(a)(2)(B), excluding gifts described in Section 176.003(a-1).

7 Signature is not required if completing in BIDSYNC electronically;

Signature of vendor doing business with the governmental entity Date

Form provided by Texas Ethics Commission www.ethics.state.tx.us Revised 11/30/2015

CONFLICT OF INTEREST QUESTIONNAIRE

For vendor doing business with local governmental entity

A complete copy of Chapter 176 of the Local Government Code may be found at http://www.statutes.legis.state.tx.us/ Docs/LG/htm/LG.176.htm. For easy reference, below are some of the sections cited on this form.

Local Government Code § 176.001(1-a): "Business relationship" means a connection between two or more parties based on commercial activity of one of the parties. The term does not include a connection based on:

(A) a transaction that is subject to rate or fee regulation by a federal, state, or local governmental entity or anagency of a federal, state, or local governmental entity;

(B) a transaction conducted at a price and subject to terms available to the public; or

(C) a purchase or lease of goods or services from a person that is chartered by a state or federal agency andthat is subject to regular examination by, and reporting to, that agency.

Local Government Code § 176.003(a)(2)(A) and (B):

(a) A local government officer shall file a conflicts disclosure statement with respect to a vendor if:

***

(2) the vendor:

(A) has an employment or other business relationship with the local government officer or afamily member of the officer that results in the officer or family member receiving taxable income, other than investment income, that exceeds $2,500 during the 12-month period preceding the date that the officer becomes aware that

(i) a contract between the local governmental entity and vendor has been executed;or

(ii) the local governmental entity is considering entering into a contract with thevendor;

(B) has given to the local government officer or a family member of the officer one or more giftsthat have an aggregate value of more than $100 in the 12-month period preceding the date the officer becomes aware that:

(i) a contract between the local governmental entity and vendor has been executed;

or (ii) the local governmental entity is considering entering into a contract with the vendor.

Local Government Code § 176.006(a) and (a-1)

(a) A vendor shall file a completed conflict of interest questionnaire if the vendor has a business relationship with a local governmental entity and:

(1) has an employment or other business relationship with a local government officer of that localgovernmental entity, or a family member of the officer, described by Section 176.003(a)(2)(A);

(2) has given a local government officer of that local governmental entity, or a family member of the officer, one or more gifts with the aggregate value specified by Section 176.003(a)(2)(B), excluding any gift described by Section 176.003(a-1); or

(3) has a family relationship with a local government officer of that local governmental entity. (a-1) The completed conflict of interest questionnaire must be filed with the appropriate records administrator not later than the seventh business day after the later of:

(2) the date that the vendor:

(A) begins discussions or negotiations to enter into a contract with the local governmentalentity; or

(B) submits to the local governmental entity an application, response to a request for proposalsor bids, correspondence, or another writing related to a potential contract with the local governmental entity; or

(3) the date the vendor becomes aware:

(A) of an employment or other business relationship with a local government officer, or a family member of the officer, described by Subsection (a);

(B) that the vendor has given one or more gifts described by Subsection (a); or(C) of a family relationship with a local government officer.

Form provided by Texas Ethics Commission www.ethics.state.tx.us Revised 11/30/2015

Bidder References

List the last (3) companies or governmental agencies, where the same or similar goods and/or services as contained in this IFB package, were recently provided by Bidder.

Reference 1

Client Name: Location:

Contact Name: Title:

Phone: E-mail

Contract Date To: Contract Date From: Contract Value: $

Scope of Work:

Reference 2

Client Name: Location:

Contact Name: Title:

Phone: E-mail

Contract Date To: Contract Date From: Contract Value: $

Scope of Work:

Reference 3

Client Name: Location:

Contact Name: Title:

Phone: E-mail

Contract Date To: Contract Date From: Contract Value: $

Scope of Work:

Question and Answers for Bid #1811-281 - FY 19 Cross Culvert Replacements

Overall Bid Questions
There are no questions associated with this bid.

Commissioners Court - Regular Session **38.**

Meeting Date: 12/11/2018

Approving Service Contract Jail Concrete Work

Submitted For: Randy Barker **Submitted By:** Thomas Skiles, Purchasing

Department: Purchasing

Agenda Category: Regular Agenda Items

Information

Agenda Item

Discuss, consider and take appropriate action on approving the Services Contract between Williamson County and RHB Construction, Inc. to provide Concrete Work related to the Jail Renovation Project in the amount of $4,677.00 and authorizing execution of the agreement.

Background

This agreement is for services required to complete the grease trap repair in the jail kitchen. Point of contact is Tom Stanfield. Funding source 01.0777.0401.009007.

Fiscal Impact

From/To	Acct No.	Description	Amount

Attachments

Service Agreement

Exhibit A.1

Exhibit A.2

Form Review

Inbox	Reviewed By	Date
Purchasing (Originator)	Randy Barker	12/06/2018 10:55 AM
County Judge Exec Asst.	Wendy Coco	12/06/2018 11:51 AM
Form Started By: Thomas Skiles		Started On: 12/06/2018 08:08 AM
Final Approval Date: 12/06/2018		

RHB Construction Inc.
402A West Palm Valley Blvd. #325
Round Rock, TX 78664

QUOTE

Williamson County Facilities
3101 SE inner Loop
Georgetown, TX 78626
@ Williamson County Justice Center

Quote # 0000004

Quote Date 09/24/2018

Item	Description	Unit Price	Quantity	Amount
Service	5 INCH CONCRETE SIDEWALK	510.00	2.63	1,341.30
Service	BREAK OUT EXISTING CONCRETE AROUND SEWER LIDS	2.00	100.00	200.00

Subtotal	1,541.30
Total	1,541.30
Amount Paid	0.00
Quote	$1,541.30

RHB Construction Inc.
402A West Palm Valley Blvd. #325
Round Rock, TX 78664

QUOTE

Williamson County Facilities
3101 SE inner Loop
Georgetown, TX 78626
@ Williamson County Justice Center

Quote # 0000005

Quote Date 11/07/2018

Item	Description	Unit Price	Quantity	Amount
Service	WINGWALL (FW-0)	58.00	28.00	1,624.00
Service	RIPRAP (CONC) (5 IN)	510.00	2.67	1,361.70
Service	SMALL LOAD FEE	150.00	1.00	150.00

Subtotal	3,135.70
Total	3,135.70
Amount Paid	0.00
Quote	$3,135.70

Commissioners Court - Regular Session **39.**

Meeting Date: 12/11/2018

Approving Service Contract Georgetown Annex Security Add Ons

Submitted For: Randy Barker **Submitted By:** Thomas Skiles, Purchasing

Department: Purchasing

Agenda Category: Regular Agenda Items

Information

Agenda Item

Discuss, consider and take appropriate action on approving the Services Contract between Willliamson County and Stanley Convergent Security Solutions, Inc. per the terms of BuyBoard Contract #493-15 to provide additional access controls solutions related to the Georgetown Annex Project in the amount of $87,414.10 and authorizing execution of the agreement.

Background

This agreement will provide additional add ons to the access control system at the Georgetown Annex. Point of contact is Dale Butler. Funding source P325.

Fiscal Impact

From/To	Acct No.	Description	Amount

Attachments

Service Agreement

Quote

Form Review

Inbox	Reviewed By	Date
Purchasing (Originator)	Randy Barker	12/06/2018 11:07 AM
County Judge Exec Asst.	Wendy Coco	12/06/2018 11:51 AM
Form Started By: Thomas Skiles		Started On: 12/06/2018 08:17 AM
Final Approval Date: 12/06/2018		

THE STATE OF TEXAS §
COUNTY OF WILLIAMSON §

SECOND AMENDED SERVICES CONTRACT FOR ACCESS CONTROL SYSTEM (PCT. 3 ANNEX) (Buyboard # 493-15)

Important Notice: County Purchase Orders and Contracts constitute expenditures of public funds, and all vendors are hereby placed on notice that any quotes, invoices or any other forms that seek to unilaterally impose contractual or quasicontractual terms are subject to the extent authorized by Texas law, including but not limited to Tex. Const. art. XI, § 7, the Texas Government Code, the Texas Local Government Code, the Texas Transportation Code, the Texas Health & Safety Code, and Opinions of the Texas Attorney General relevant to local governmental entities.

THIS CONTRACT is made and entered into by and between **Williamson County, Texas (hereinafter "The County")**, a political subdivision of the State of Texas, acting herein by and through its governing body, and **STANLEY Convergent Security Solutions, Inc., (hereinafter "Service Provider")**. The County agrees to engage Service Provider as an independent contractor, to assist in providing certain operational services pursuant to the following terms, conditions, and restrictions:

I.

Services: Service Provider shall provide services *as an independent contractor* pursuant to terms and policies of the Williamson County Commissioners Court. Service Provider expressly acknowledges that he, she or it is not an employee of The County. The services include, but are not limited to the following items in order to complete the project:

> **As described in the attached Statement of Work/Quotation(s), dated June 18, 2018 and Stanley Security Customer Installation Agreement, dated June 15, 2018, and additional Stanley Security Customer Installation Agreements, dated July 23, 2018 and Nov 2018 (also marked as Quote #Q-57958), which are each incorporated herein as if copied in full.**

Should The County choose to add services in addition to those described in Exhibit(s) "A1-A3," such additional services shall be described in a separate written amendment to this Contract wherein the additional services shall be described and the parties shall set forth the

amount of compensation to be paid by The County for the additional services. Service Provider shall not begin any additional services and The County shall not be obligated to pay for any additional services unless a written amendment to this Contract has been signed by both parties.

II.

Effective Date and Term: This contract shall be in full force and effect when signed by all parties and shall continue for a reasonable time period for the specific project and shall terminate upon project completion or when terminated pursuant to paragraph X below.

III.

Consideration and Compensation: Service Provider will be compensated based as set forth in Exhibit(s). Any changes must be made by a change order or amendment and approved by the Williamson County Commissioners Court. **The not-to-exceed amount shall be $66,378.42 (original installation agreement) plus $14,365.77 (second installation agreement) plus $6,669.91 (third installation quote/agreement) for a grand total of $87,414.10.**

Payment for goods and services shall be governed by Chapter 2251 of the Texas Government Code. An invoice shall be deemed overdue the 31st day after the later of (1) the date The County receives the goods under the contract; (2) the date the performance of the service under the contract is completed; or (3) the date the Williamson County Auditor receives an invoice for the goods or services. Interest charges for any overdue payments shall be paid by The County in accordance with Texas Government Code Section 2251.025. More specifically, the rate of interest that shall accrue on a late payment is the rate in effect on September 1 of The County's fiscal year in which the payment becomes due. The said rate in effect on September 1 shall be equal to the sum of one percent (1%); and (2) the prime rate published in the Wall Street Journal on the first day of July of the preceding fiscal year that does not fall on a Saturday or Sunday.

IV.

Insurance: Service Provider shall provide and maintain, until the services covered in this Contract is completed and accepted by The County, the minimum insurance coverage in the minimum amounts as described below. Coverage shall be written on an occurrence basis by companies authorized and admitted to do business in the State of Texas and rated A- or better by A.M. Best Company or otherwise acceptable to The County and name The County as an additional insured.

Type of Coverage	**Limits of Liability**

a. Worker's Compensation — Statutory
b. Employer's Liability
   - Bodily Injury by Accident — $500,000 Ea. Accident
   - Bodily Injury by Disease — $500,000 Ea. Employee
   - Bodily Injury by Disease — $500,000 Policy Limit

c. Comprehensive general liability including completed operations and contractual liability insurance for bodily injury, death, or property damages in the following amounts:

COVERAGE	PER PERSON	PER OCCURRENCE
Comprehensive General Liability (*including premises, completed operations and contractual*)	$ 500,000	$ 500,000
Aggregate policy limits:		$1,000,000

Service Provider, as an independent contractor, meets the qualifications of an "Independent Contractor" under Texas Worker's Compensation Act, Texas Labor Code, Section 406.141, and must provide its employees, agents and sub-subcontractors worker's compensation coverage. Contactor shall not be entitled to worker's compensation coverage or any other type of insurance coverage held by The County.

Upon execution of this Contract, Service Provider shall provide The County with insurance certificates evidencing compliance with the insurance requirements of this Contract.

V.

Entire Contract & Incorporated Documents: This Contract constitutes the entire Contract between the parties and may not be modified or amended other than by a written instrument executed by both parties. Documents expressly incorporated (as if copied in full) into this Contract include the following:

A. As described in the Statement of Work/Quotation(s), dated June 18, 2018, which is incorporated herein as if copied in full;

B. Stanley Security Customer Installation Agreement, dated June 15, 2018, which is incorporated herein as if copied in full;

C. Additional Stanley Security Customer Installation Agreement, dated July 23, 2018;

D. Additional Stanley Security Customer Installation Agreement, dated Nov 2018 (also marked as Quote #Q-57958);

E. Buyboard # 493-15 and related addenda and exhibits; and

F. Any required insurance certificates evidencing required coverages.

The County reserves the right and discretion (pursuant to public policy and Texas Constitutional principles) to determine applicable provisions where there is any conflict between this Contract and any of the above-referenced contract documents/exhibits or incorporated documents.

VI.

No Agency Relationship & Indemnification: It is understood and agreed that Service Provider shall not in any sense be considered a partner or joint venturer with The County, nor shall Service Provider hold himself out as an agent or official representative of The County unless expressly authorized to do so by a majority of the Williamson County Commissioners Court. Service Provider shall be considered an independent contractor for the purpose of this Contract and shall in no manner incur any expense or liability on behalf of The County other than what may be expressly allowed under this Contract. The County will not be liable for any loss, cost, expense or damage, whether indirect, incidental, punitive, exemplary, consequential of any kind whatsoever for any acts by Service Provider or failure to act relating to the services being provided.

VII.

INDEMNIFICATION - EMPLOYEE PERSONAL INJURY CLAIMS: TO THE FULLEST EXTENT PERMITTED BY LAW, THE SERVICE PROVIDER SHALL INDEMNIFY, DEFEND (WITH COUNSEL OF THE COUNTY'S CHOOSING), AND HOLD HARMLESS THE COUNTY, AND THE COUNTY'S EMPLOYEES, AGENTS, REPRESENTATIVES, PARTNERS, OFFICERS, AND DIRECTORS (COLLECTIVELY, THE "INDEMNITEES") AND SHALL ASSUME ENTIRE RESPONSIBILITY AND LIABILITY (OTHER THAN AS A RESULT OF INDEMNITEES' GROSS NEGLIGENCE) FOR ANY CLAIM OR ACTION BASED ON OR ARISING OUT OF THE PERSONAL INJURY, OR DEATH, OF ANY EMPLOYEE OF THE SERVICE PROVIDER, OR OF ANY SUBCONTRACTOR, OR OF ANY OTHER ENTITY FOR WHOSE ACTS THEY MAY BE LIABLE, WHICH OCCURRED OR WAS ALLEGED TO HAVE OCCURRED ON THE WORK SITE OR IN CONNECTION WITH THE PERFORMANCE OF THE WORK. SERVICE PROVIDER HEREBY INDEMNIFIES THE INDEMNITEES EVEN TO THE EXTENT THAT SUCH PERSONAL INJURY WAS CAUSED OR ALLEGED TO HAVE BEEN CAUSED BY THE SOLE, COMPARATIVE OR CONCURRENT NEGLIGENCE OF THE STRICT LIABILITY OF ANY INDEMNIFIED PARTY. THIS INDEMNIFICATION SHALL NOT BE LIMITED TO DAMAGES, COMPENSATION, OR BENEFITS PAYABLE UNDER INSURANCE POLICIES, WORKERS COMPENSATION ACTS, DISABILITY BENEFITS ACTS, OR OTHER EMPLOYEES BENEFIT ACTS.

INDEMNIFICATION - OTHER THAN EMPLOYEE PERSONAL INJURY CLAIMS: TO THE FULLEST EXTENT PERMITTED BY LAW, SERVICE PROVIDER SHALL INDEMNIFY, DEFEND (WITH COUNSEL OF THE COUNTY'S CHOOSING), AND HOLD HARMLESS THE COUNTY, AND THE COUNTY'S EMPLOYEES, AGENTS, REPRESENTATIVES, PARTNERS, OFFICERS, AND DIRECTORS (COLLECTIVELY, THE "INDEMNITEES") FROM AND AGAINST CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING BUT NOT LIMITED TO ATTORNEYS' FEES, ARISING OUT OF OR ALLEGED TO BE RESULTING FROM THE PERFORMANCE OF THIS AGREEMENT OR THE WORK DESCRIBED HEREIN, TO THE EXTENT CAUSED BY THE NEGLIGENCE, ACTS, ERRORS, OR OMISSIONS OF SERVICE PROVIDER OR ITS SUBCONTRACTORS, ANYONE EMPLOYED BY THEM OR ANYONE FOR WHOSE ACTS THEY MAY BE LIABLE, REGARDLESS OF WHETHER OR NOT SUCH CLAIM, DAMAGE, LOSS OR EXPENSE IS CAUSED IN WHOLE OR IN PART BY A PARTY INDEMNIFIED HEREUNDER.

VIII.

No Waiver of Sovereign Immunity or Powers: Nothing in this Contract will be deemed to constitute a waiver of sovereign immunity or powers of The County, the Williamson County Commissioners Court, or the Williamson County Judge.

IX.

Compliance with All Laws: Service Provider agrees and will comply with any and all local, state or federal requirements with respect to the services rendered.

X.

Termination: This Contract may be terminated at any time at the option of either party, without future or prospective liability for performance upon giving thirty (30) days written notice thereof.

XI.

Venue and Applicable Law: Venue of this Contract shall be Williamson County, Texas, and the laws of the State of Texas shall govern all terms and conditions.

XII.

Severability: In case any one or more of the provisions contained in this Contract shall for any reason be held to be invalid, illegal, or unenforceable in any respect, such invalidity, illegality, or unenforceability shall not affect any other provision in this Contract and this Contract shall be construed as if such invalid, illegal, or unenforceable provision had never been contained in it.

XIII.

Right to Audit: Service Provider agrees that The County or its duly authorized representatives shall, until the expiration of three (3) years after final payment under this

Contract, have access to and the right to examine and photocopy any and all books, documents, papers and records of Service Provider which are directly pertinent to the services to be performed under this Contract for the purposes of making audits, examinations, excerpts, and transcriptions. Service Provider agrees that The County shall have access during normal working hours to all necessary Service Provider facilities and shall be provided adequate and appropriate work space in order to conduct audits in compliance with the provisions of this section. The County shall give Service Provider reasonable advance notice of intended audits.

XIV.

Confidentiality: Service Provider expressly agrees that he or she will not use any incidental confidential information that may be obtained while working in a governmental setting for his or her own benefit, and agrees that he or she will not enter any unauthorized areas or access confidential information and he or she will not disclose any information to unauthorized third parties, and will take care to guard the security of the information at all times.

XV.

Good Faith Clause: Service Provider agrees to act in good faith in the performance of this Contract.

XVI.

No Assignment: Service Provider may not assign this Contract.

XVIII.

County Judge or Presiding Officer Authorized to Sign Contract: The presiding officer of The County's governing body who is authorized to execute this instrument by order duly recorded may execute this Contract on behalf of The County.

WITNESS that this Contract shall be effective as of the date of the last party's execution below.

WILLIAMSON COUNTY:	**SERVICE PROVIDER:**
_____	_____
Authorized Signature	Authorized Signature
_____	Randy Rimmer
Printed Name	Printed Name
Date: _____ ___, 2018	Date: 11-28 ___, 2018

Exhibit(s)
Statement of Work/Quotation(s)
and
Customer Installation Agreement(s)

Schedule of Service and Protection

(Equipment & Services)

STANLEY CONVERGENT SECURITY SOLUTIONS, INC. ("SCSS") AGREES ON THIS 13TH DAY OF NOVEMBER, 2018, TO PROVIDE THE SERVICES DESCRIBED BELOW FOR WILLIAMSON COUNTY, GEORGETOWN PCT 3 ANNEX AT 151 WILCO WAY, GEORGETOWN, TX 78626. ALL WORK WILL BE DONE IN ACCORDANCE WITH THE TERMS SET FORTH IN THE AGREEMENT BETWEEN THE PARTIES. IF SUCH AGREEMENT IS NOT IN EFFECT, THE WORK WILL BE DONE IN ACCORDANCE WITH SCSS'S STANDARD TERMS AND CONDITIONS WHICH CAN BE FOUND AT HTTP://STANLEYCSS.COM/LEGAL/

Solution: Wilco Georgetown Annex additions- Nov 2018
Quote: Q-57958
Investment Type: Direct Sale

System Information

System Type: Integrated Solution
Primary System: Access
Secondary Systems: Intrusion - Traditional;

Customer to Provide

120 vac Power Outlets, Electric Locking Hardware,

Equipment

Quantity	Part Number	Description
2.00	LNL-1320-S3	DUAL READER INTERFACE MODULE
3.00	920PTNNEK00000	MULTICLASS RP40 SE READER
3.00	947BR	4IN RECESS CONTACT BR, WIDE GAP
1.00	2S31952R5	18(4)+22(2+4+6)18 CMP PROFN 500FT
1.00	AJ-JOS1A	7-INCH HANDS-FREE COLOR VIDEO SET SCREEN
1.00	AJ-MCWSA	DESK STAND FOR MONITOR/ ADJUSTABLE
1.00	AJ-RY18L	RELAY MODULE
1.00	AJ-87180250C	18 GAGE NON-SHIELDED CABLE 500
3.00	PL-HUBM	HOLD UP BUTTON

Existing Equipment

Quantity	Asset Name	Asset Description

Services

Selected or Quantity	Service Name	Service Description

Equipment Notes

Stanley security Solutions will furnish and install the following additions to the access control and intercom systems at the Georgetown PCT 3 Annex: Refer to there attached drawings for equipment locations.

Headend panel - Room #106

License Information (as of 8/31/2018): AK 1003300; 104891; AL 868, 1278, 1322; 1472, Complaints may be directed to Alabama Electronic Security Board of Licensure, 7955 Vaughn Rd., Montgomery, AL 36116 (334) 264-9388; 48882; AZ ROC204875; AR 0329770517; CMPY.0001911, Regulated by Arkansas Bd of Private Investigators and Private Security Agencies, #1 State Police Plaza Dr, Little Rock, AR 72209 (501) 618-8600; CA 848019 - C10; LCO5911; ACO6055, Alarm company operators are licensed and regulated by the Bureau of Security & Investigative Services, Dept. of Consumer Affairs, Sacramento, CA 95814; CT ELC.0184851-L5; DE 04-158; FAL-0001; FL EF0000772; GA 439701; IA AC-211; ID 015830; 022726-AA-4; IL 127001274, KY 338 (Louisville); LA F1162; F875; F1277; 61931; MA 12737A; MD 107-1828; 259; MI 5103306; 3601205772; MN TS001238; MS 19207-SC; 15024172; MT FPL-BEL-000132; NC 23471 SP-FA/LV; 1839-CSA, Alarm Systems Licensing Bd., 3101 Industrial Drive, Ste 104, Raleigh, NC 27609 (919)788-5320; NH 0424-C; NJ 1074485; 659423; Burglar Alarm Business Lic. # 34BX00022000; NM 374554; NV F400; F401; 0071024; NY 12000293169, Licensed by NYS Dept. of State: OH 53-89-1512; OK 953; OR 161567; PA 032736; RI 9446A; TSC 4996; SC FAC3387; BAC5501; TN 1180; 1448; 1650; 1446; CE-D 65528; TX ACR2639; ECR1821; B02140; UT 5704068-6501; VA 2705-087235A, 11-5451; WA STANLCS925MZ; WV 045298; WI 969322; WY LV-Q-23879.

2 Dual reader interface module

Cardreader Door - #P101

1 Multiclass cardreader
1 Recessed door contact
1 Audio Video intercom door station
1lot Composite plenum cable

Receptionist Desk - #P102

1 Intercom Master Station With stand
1 Door Release Relay Wire to show that green light on reader when release button is pushed

Clerk Stations - #C102

3 Door Release Buttons to release door C101A Wire to show green light on reader when button is pushed

Cardreader Door - #P121

1 Multiclass cardreader
1 Recessed door contact
1lot Composite plenum cable

Cardreader Door - #P112

1 Multiclass cardreader
1 Recessed door contact
1lot Composite plenum cable

Notes

1.) Stanley will furnish, install, and terminate (3) door contact switches:
2.) Stanley will terminate all access control cable including the lock power to the above (2) doors.
3.) Stanley will furnish and install (2) Dual reader interface module in the headend panel on the 1st foor in room #106

The customer will provide

1.) All Locking hardware and provide access path to **Stanley to connect** to the electric hinges and door contacts for all 3 access control doors.

Theory of Operation

License Information (as of 8/31/2018): AK 1003300; 104891; AL 888, 1278, 1322, 1472. Complaints may be directed to Alabama Electronic Security Board of Licensure, 7956 Vaughn Rd., Montgomery, AL 36116 (334) 264-9388; 48682: AZ ROC204975: AR 0329770517; CMPY.0001911, Regulated by Arkansas Bd of Private Investigators and Private Security Agencies. #1 State Police Plaza Dr, Little Rock, AR 72209 (501) 618-8600: CA 848019 - C10; LCO5911; ACO6055, Alarm company operators are licensed and regulated by the Bureau of Security & Investigative Services, Dept. of Consumer Affairs, Sacramento, CA 95814: CT ELC.0184651-L5; DE 04-158; FAL-0001: FL EF0000772: GA 439701: IA AC-211: ID 016830; 022726-AA-4: IL 127001274; KY 338 (Louisville): LA F1162; F675; F1277; 61931: MA 12737A: MD 107-1828; 259: MI 5103306; 3601205772: MN TS001238: MS 19207-SC; 15024172: MT FPL-BEL-000132: NC 23471 SP-FA/LV; 1839-CSA, Alarm Systems Licensing Bd., 3101 Industrial Drive, Ste 104, Raleigh, NC 27609 (919)788-5320; NH 0424-G; NJ 1074485; 659423; Burglar Alarm Business Lic. # 34BX00922000; NM 374554; NV F400; F401; 0071024; NY 12000293169, Licensed by NYS Dept. of State: OH 53-89-1512: OK 553: OR 161567: PA 032738: RI 9448A: TSC 4996; SC FAC3387; BAC5501: TN 1180; 1448; 1650; 1446; CE-D 65528: TX ACR2639; ECR1821; B02140: UT 5704088-6501: VA 2705-087235A, 11-5481: WA STANLCS925MZ: WV 045298: WI 869322: WY LV-G-23879.

Investment Type: Direct Sale

Pricing and Deposit Terms

The term of this Schedule is for a period of 12 Months from the date hereof and shall thereafter renew as set forth in the Agreement.

Transaction Information: Add/Upgrade
Warranty Duration: 12 MONTHS
Escalation Information: 9% after 12 Months

Customer agrees that SCSS retains a security interest in the equipment until the full purchase price is paid.

Prices do not include taxes

Total Installation Price*:	$6,669.91
Up-front Deposit*:	$0.00
Payment Plan*:	
Balance Due Upon Completion*:	$6,669.91

Monthly Service Charges	
Total Monthly Fee:*	*$0.00*
Payment Frequency:	*Monthly*

STANLEY Convergent Security Solutions, Inc.	Customer: Williamson County, Georgetown Pct 3 Annex
Security Representative (Sign)	Customer (Sign)
Randy Rimmer Security Representative (Print)	Customer (Print)
	Title
STANLEY Authorized Manager (Sign)	
STANLEY Authorized Manager (Print)	

Not Binding on SCSS without either Authorized Management Approval Signature or SCSS Begins the Installation or Services.

Account Payment Settings:

PO Required by customer: ☐

License Information (as of 8/31/2018): AK 1003386; 104891; AL 888, 1278, 1322, 1472. Complaints may be directed to Alabama Electronic Security Board of Licensure, 7556 Vaughn Rd., Montgomery, AL 36116 (334) 264-9388; 48682; AZ ROC204975; AR 0329770517; CMPY.0001911. Regulated by Arkansas Bd of Private Investigators and Private Security Agencies, #1 State Police Plaza Dr, Little Rock, AR 72209 (501) 618-8600; CA 848019 - C10; LCO5911; ACO6055. Alarm company operators are licensed and regulated by the Bureau of Security & Investigative Services, Dept. of Consumer Affairs, Sacramento, CA 95814; CT ELC.0184661-L6; DE 04-158; FAL-0001; FL EF0000772; GA 439701; IA AC-211; ID 015830; 022726-AA-4; IL 127001274; KY 339 (Louisville); LA F1162; F875; F1277; 61931; MA 12737A; MD 107-1828; 259; MI 5103306; 3601205772; MN TS001238; MS 19207-SC; 15024172; MT FPL-BEL-000132; NC 23471 SP-FA/LV; 1839-CSA, Alarm Systems Licensing Bd., 3101 Industrial Drive, Ste 104, Raleigh, NC 27609 (919)788-5320; NH 0424-C; NJ 1074485; 659423; Burglar Alarm Business Lic. # 34BX00022000; NM 374554; NV F400; F401; 0071024; NY 12000293169, Licensed by NYS Dept. of State; OH 53-89-1512; OK 953; OR 161567; PA 032736; RI 9448A; TSC 4996; SC FAG3387; BAG5501; TN 1180; 1448; 1650; 1446; CE-D 65528; TX ACR2639; ECR1821; B02140; UT 5704068-5501; VA 2705-087235A, 11-5481; WA STANLCS925MZ; WV 045298; WI 969322; WY LV-G-23879.

Billing Addresses:	Installation Invoices	Recurring Services Invoices	Time & Material Invoices
Street Address:	3101 SE Inner Loop	3101 SE Inner Loop	3101 SE Inner Loop
City	Georgetown	Georgetown	Georgetown
State/Providence	TX	TX	TX
Country	United States	United States	United States
Zip/Postal Code	78626	78626	78626
Attention			
Billing Contact	Dale Butler	Dale Butler	Dale Butler
Billing Phone	(512) 943-1100	(512) 943-1100	(512) 943-1100
Billing ID			
Special Handling Required	Y	Y	Y
Notes for Special Handling	TAX Exempt	TAX Exempt	TAX Exempt
PO #			

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Installation and Service Agreement

No. Q-57958

This Agreement is made and entered into this 13th day of November 2018 between STANLEY Convergent Security Solutions, Inc., with its principal office located at 8350 Sunlight Dr., Indianapolis, IN 46037, hereinafter referred to as "SCSS" and Williamson County, Georgetown Pct 3 Annex, hereinafter referred to as "Customer".

1. **System and Service**

   ☑ SCSS will sell and install, provide warranty and after-warranty repair service, and/or provide monitoring and other services for the security systems (individually or collectively the "System" or "Sold System") as described on the attached Schedule of Equipment and Services (the "Schedule.")

   ☐ SCSS will install, provide repair service and provide monitoring and the other services for the security systems (individually or collectively the "System" or "SCSS System") described on the attached Schedule. A SCSS System remains the sole and exclusive property of SCSS.

   The System will be installed at the premises of the Customer located at: 151 Wilco Way, Georgetown, TX 78626
   Customer agrees that it has chosen this System and understands that additional or different protection is available for a higher price.

2. **Term, Renewal and Expiration**

   A. This Agreement is effective as of the execution date of this Agreement and for use of the System and services shall have an initial term of 12 Months from the date the System first becomes operative under this Agreement, and thereafter shall be automatically renewed for consecutive terms of twelve (12) months, except where prohibited by applicable law in which case the Agreement will renew from month to month, unless either party gives written notice at least 60 days prior to the end of such term, to the other of intent to allow the Agreement to expire as of the end of the then-current term.

3. **Payment and Scope (prices do not include any applicable state and local sales or use tax):**

   A. Payment – Customer agrees to pay SCSS:

      i. $6,669.91 for the price of a Sold System and the installation of the System.

         a. $0.00 upon signing of this Agreement.

         b. Progress payments as follows:

         c. $6,669.91 upon completion of the installation

      ii. $0.00 for services per month, as described in the Schedule of Service and Protection, payable Monthly, in advance commencing from the first (1st) day of the month following the date the system becomes operative. Customer also agrees to pay interim charges in the amount of approximately 1/30th of the monthly charges for each day from and including the date the system becomes operative until the first (1st) of the following month.

      iii. SCSS may at any time following the expiration of 12 Months of this Agreement, increase the monthly charge specified in 3.A.ii, once in any 12 Months period. If SCSS increases the basic monthly charge in any year by an amount greater than 9% percent, Customer may terminate the Agreement upon written notice to SCSS within fifteen (15) days of notification of such increase.

   B. Services

      I. SCSS will provide the services specified on the attached Schedule. For a Sold System, at the expiration of the limited warranty, repair service will be on a time and material basis unless Customer subscribes to a service plan described on the Schedule. Repair services for a SCSS System are described on the Schedule.

4. **Liquidated Damages and SCSS's Limits of Liability**

   A. It is understood and agreed by the parties hereto that SCSS is providing a System and/or service designed to reduce the risk of loss only; that the payments provided for herein are based solely on the value of the use of the System and/or services as described herein and are unrelated to the value of any property located on Customer's premises; that SCSS is not liable for losses which may occur in cases of malfunction or nonfunction of any System provided by, or serviced by, SCSS, that SCSS is not liable for losses which may occur in the monitoring, repairing, signal handling or dispatching aspects of the service, even if due to SCSS's negligence or failure of performance; that SCSS is not liable for losses resulting from failure to warn or inadequate training; that SCSS is not an insurer; and that insurance covering personal injury, property loss, damage to and on Customer's premises must be obtained and/or maintained by Customer. Customer understands that it is Customer's duty to purchase such insurance; that SCSS offers several levels of protection and services and that the System and/or service described in the Schedule of Service and Protection has been chosen by Customer after considering and balancing the levels of protection afforded by various systems and the related costs.

   B. IT IS AGREED THAT IT IS IMPRACTICAL AND EXTREMELY DIFFICULT TO FIX ACTUAL DAMAGES WHICH MAY ARISE IN SITUATIONS WHERE THERE MAY BE A FAILURE OF THE SYSTEM AND/OR SERVICES PROVIDED, DUE TO THE UNCERTAIN NATURE OF POTENTIAL DAMAGES AND/OR VALUE OF CUSTOMER'S PROPERTY OR THE PROPERTY OF OTHERS KEPT ON THE PROTECTED PREMISES WHICH MAY BE LOST, STOLEN, DESTROYED, DAMAGED OR OTHERWISE AFFECTED BY OCCURRENCES WHICH THE SYSTEM OR SERVICE IS DESIGNED TO DETECT OR AVERT,INCLUDING LOSS, DAMAGE, OR INABILITY TO OR IMPAIRMENT OF ACCESS TO CUSTOMER'S DATA, INABILITY OF SCSS TO GUARANTEE POLICE, FIRE DEPARTMENT AND MEDICAL ALERT RESPONSE TIME, AND ESTABLISHING A CAUSAL CONNECTION BETWEEN THE SYSTEM OR SERVICE PROBLEMS AND CUSTOMER'S POSSIBLE LOSS OR INJURIES TO THIRD PARTIES. THEREFORE IF ARTICLE 4A IS JUDICIALLY DETERMINED TO BE INVALID OR UNENFORCEABLE AND ANY LIABILITY IS JUDICIALLY IMPOSED ON SCSS, ITS EMPLOYEES, AGENTS OR REPRESENTATIVES, FOR PROPERTY DAMAGE OR PERSONAL INJURY, SUCH LIABILITY SHALL BE LIMITED TO AN AMOUNT EQUAL TO THE ANNUAL SERVICE CHARGE OR $10,000, WHICHEVER IS LESS. (IF THERE IS NO ANNUAL SERVICE CHARGE, SCSS'S LIABILITY SHALL BE LIMITED TO $500). THIS SUM SHALL BE PAID AND RECEIVED EITHER (I) AS LIQUIDATED DAMAGES AND NOT AS A PENALTY, OR (II) AS A LIMITATION OF LIABILITY APPROVED AND AGREED UPON BY THE PARTIES. THE PAYMENT OF THIS AMOUNT SHALL BE SCSS'S SOLE AND EXCLUSIVE LIABILITY REGARDLESS OF WHETHER LOSS OR DAMAGE IS CAUSED BY THE PERFORMANCE OR NONPERFORMANCE OF OBLIGATIONS UNDER THIS CONTRACT OR BY NEGLIGENCE, ACTIVE OR OTHERWISE, OF SCSS, ITS EMPLOYEES, AGENTS OR REPRESENTATIVES. NO SUIT OR ACTION SHALL BE BROUGHT AGAINST SCSS MORE THAN ONE (1) YEAR AFTER THE ACCRUAL OF THE CAUSE OF ACTION ARISES. IF CUSTOMER WISHES SCSS TO INCREASE THE AMOUNT OF THE LIABILITY LIMITATION OR LIQUIDATED DAMAGES AS PROVIDED ABOVE, CUSTOMER MAY OBTAIN FROM SCSS AN ADDITIONAL AMOUNT OF LIMITED LIABILITY OR LIQUIDATED DAMAGES BY PAYING AN ADDITIONAL MONTHLY SERVICE CHARGE TO SCS, SUBJECT TO WRITTEN APPROVAL BY AN AUTHORIZED SCSS REPRESENTATIVE SETTING FORTH SAID TERMS. THIS CLAUSE WILL IN NO WAY BE INTERPRETED TO ESTABLISH SCSS AS AN INSURER.

   C. SINCE THE PARTIES AGREE THAT CUSTOMER RETAINS THE SOLE RESPONSIBILITY FOR THE LIFE AND SAFETY OF ALL PERSONS IN ITS PREMISES, AND FOR PROTECTING AGAINST LOSSES TO HIS/HER OWN PROPERTY OR THE PROPERTY OF OTHERS IN ITS PREMISES, CUSTOMER AGREES TO INDEMNIFY AND SAVE HARMLESS SCSS, ITS EMPLOYEES, AGENTS, OR REPRESENTATIVES, AND US BANK EQUIPMENT FINANCE IF US BANK EQUIPMENT FINANCE HAS PROVIDED ANY FUNDS IN RELATION TO THIS AGREEMENT, FROM AND AGAINST ALL CLAIMS, LAWSUITS AND LOSSES, BY PERSONS NOT A PARTY TO THIS AGREEMENT, ALLEGED TO BE CAUSED BY THE IMPROPER OPERATION OF THE SYSTEM, WHETHER DUE TO MALFUNCTIONING OR NONFUNCTIONING OF THE SYSTEM OR THE NEGLIGENT PERFORMANCE OR NONPERFORMANCE BY SCSS OF ANY SERVICE, INCLUDING BUT NOT LIMITED TO INSTALLATION, MONITORING, SIGNAL-HANDLING OR NOTIFICATION ASPECTS OF THE SERVICE.

   D. With respect to SCSS owned systems, CUSTOMER EXPRESSLY WAIVES ANY AND ALL RIGHTS AND REMEDIES CONFERRED UPON A CUSTOMER UNDER ARTICLE 2A OF THE UNIFORM COMMERCIAL CODE AND ANY RIGHTS NOW OR HEREAFTER CONFERRED UPON A CUSTOMER BY STATUTE OR OTHERWISE THAT MAY LIMIT OR MODIFY SCSS'S RIGHTS AS DESCRIBED IN THIS SECTION OR OTHER SECTIONS OF THIS AGREEMENT OR APPLICABLE SCHEDULE.

   E. Paragraphs A through D of this Article 4 shall apply to any other company or entity, and the work it performs, which, in addition to SCSS, furnishes as a subcontractor or otherwise, any equipment, installation, monitoring, repairs, financing, or other services provided hereunder.

   F. LIMITED WARRANTY. [SOLD SYSTEM ONLY]
   SCSS warrants that the equipment will be free from defects in material and workmanship for a period of 12 MONTHS from the date the security system is placed into operation. If during this warranty period, any of the equipment or parts are defective or malfunction, they will be repaired or replaced, at SCSS's sole option, free of charge. Warranty repair is done 8 am–4 pm Monday through Friday, excluding holidays. This warranty will not apply if the damage or malfunction occurs because the system has been adjusted, added to, altered, abused, misused or tampered with by the Customer, operated or used contrary to the operating instructions, software has been used with an operating system other than that specified by SCSS or its original equipment manufacturer ("OEM"), performance issues relating to the use of Customer's data network(s), power fluctuations, or any other cause not within the cause or control of SCSS. If inspection by SCSS fails to disclose any defect covered by this limited equipment warranty, the equipment will be repaired or replaced at Customer's expense and SCSS's regular service charges will apply.

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DISCLAIMER OF ALL OTHER WARRANTIES: EXCEPT FOR THE FOREGOING LIMITED EQUIPMENT WARRANTY DESCRIBED ABOVE, SCSS MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, THAT THE SYSTEM OR SERVICE SUPPLIED MAY NOT BE COMPROMISED, OR THAT THE SYSTEM OR SERVICE WILL IN ALL CASES PROVIDE THE PROTECTION FOR WHICH IT IS INTENDED. IN NO EVENT, WILL SCSS, ITS EMPLOYEES, OR AGENTS OR REPRESENTATIVES BE RESPONSIBLE FOR CONSEQUENTIAL, SPECIAL OR INCIDENTAL DAMAGES OF ANY NATURE WHATSOEVER. SCSS MAKES NO WARRANTIES CONCERNING ANY EQUIPMENT OR DEVICES ATTACHED TO CUSTOMER'S SYSTEM UNLESS SUCH EQUIPMENT OR DEVICES WERE ORIGINALLY PURCHASED AND INSTALLED UNDER THIS AGREEMENT. STATE LAW: SOME STATES DO NOT ALLOW THE EXCLUSION OR THE LIMITATION OF CONSEQUENTIAL OR INCIDENTAL DAMAGES, OR A LIMITATION ON THE DURATION OF IMPLIED WARRANTIES, SO THE ABOVE LIMITATIONS OR EXCLUSIONS MAY NOT APPLY TO CUSTOMER. THE WARRANTY GIVES CUSTOMER SPECIFIC LEGAL RIGHTS AND CUSTOMER MAY ALSO HAVE OTHER RIGHTS WHICH MAY VARY FROM STATE TO STATE.

5. Miscellaneous Charges and Increase in Charges

A. Customer shall pay any City, State or Federal taxes, fees or charges which are imposed upon the equipment, the installation thereof or performance of the services provided for herein, including any increases in charges to SCSS for facilities required for transmission of signals under this Agreement.

B. At SCSS's option, a fee may be charged for any false alarm caused by Customer or for any unnecessary service run. If either SCSS or Customer is assessed any fine or penalty by any municipality, fire or police protection district as a result of any false alarm, Customer shall pay the full amount of such fine or penalty.

C. Charges for toll free telephone usage, if selected by Customer, are included in the payment described in paragraph 3(A). SCSS may immediately increase its monthly charges to reflect any increase in charges for toll free service. Customer shall pay any other telephone company toll line charges, including installation.

D. Installation charges set forth in Article 3 assume installation will be performed during SCSS's normal working hours and using its own personnel. If Customer requests the installation or any part thereof to be performed outside ordinary business hours, or if the installation must be performed by outside contractors, or SCSS's wage rates do not apply as a result of prevailing wage requirements, or otherwise, then the installation charge will be adjusted accordingly.

E. If any government agency requires any changes in the system originally installed, Customer agrees to pay for such changes. It is Customer's responsibility to obtain all alarm use permits required by the local jurisdiction.

F. The prices quoted for the alarm system are based upon the number of components, type of security and service specified in the Schedule. Should Customer request or require additional protection, security devices or services, this may affect the final contract price. Cost associated with conditions not apparent at SCSS's initial survey and for delays other than caused by SCSS will be borne by Customer at SCSS's then current rates.

G. SCSS shall charge interest at the rate of 1 ½% per month, or the maximum permitted by law, on any delinquent balance. A balance becomes delinquent thirty (30) days after payment is due under Article 3. SCSS may also, upon written notice to Customer, stop providing monitoring and maintenance services if Customer is delinquent on any payment. SCSS may charge $25.00 for any NSF check or the maximum permitted by law.

6. Further Obligations of Customer

A. Customer shall not tamper with, alter, adjust, add to, disturb, injure, move, remove, interconnect with other equipment or otherwise interfere with equipment installed by SCSS, nor shall Customer permit the same to be done by others. It is further agreed that Customer indemnifies and holds SCSS harmless for any claim arising out of the foregoing and that if any work is required to be performed by SCSS, due to Customer's breach of the foregoing obligations, Customer will pay SCSS for such work in accordance with SCSS's then-current prevailing charges.

B. For those premises where SCSS is to provide monitoring, Customer shall furnish SCSS a list of the names, titles, telephone numbers and signatures of all persons authorized to enter the premises of Customer during scheduled closed periods and shall be responsible for updating such lists. In cases of supervised service, Customer shall also furnish SCSS with an authorized daily and holiday opening and closing schedule.

C. Customer shall set the alarm system at such times as Customer shall close its premises. Customer shall test the alarm system prior to each closed period and shall immediately report to SCSS any claimed inadequacy in or failure of the system. Customer shall perform a periodic walk test of any motion detection equipment used on the premises.

D. Customer shall permit SCSS access to the premises for any reason arising out of or in connection with SCSS's rights or obligations under this Agreement.

E. Should any part of the system be damaged by fire, water, lightning, acts of God, third parties or any cause beyond the control of SCSS, any repairs or replacement shall be paid for by Customer (ordinary wear and tear excepted in the case of a SCSS owned system.)

F. Any claim by Customer of improper installation or a defect in the system shall be made in writing to SCSS within thirty (30) days of installation completion. Such obligation shall not waive Customer's warranty rights under Article 4.F., Limited Warranty.

G. Customer represents and warrants that Customer is the owner of the premises or, if not, that the owner agrees and consents to the installation of the system on the premises. Customer shall indemnify and hold SCSS harmless from any losses or damages, including attorney fees, resulting from breach of such representation and warranty, or from SCSS's inability to recover system components when Customer moves out of the premises.

H. For those premises where SCSS is to provide central station sprinkler supervisory and water flow alarm or automatic fire alarm service, Customer warrants and agrees that all alarm valves, gate valves, pumps, compressors, inspector test connections, or other elements of the sprinkler system as now installed or to be installed, are, or will be, corrected at Customer's expense so as to be acceptable to the insurance and other authorities having jurisdiction when equipped with SCSS's signaling devices. Customer further agrees to furnish any necessary water through Customer's meter and at Customer's expense, to place hoods over any open forges or fires, and to pipe all boiler blow-offs and steam exhaust outside the premises to be protected.

I. It is mutually agreed that the Customer assumes full responsibility for the operation of any and all bypass or switch units provided for disconnecting or reconnecting the alarm sounding and/or transmitting equipment at Customer's premises.

J. Customer represents that, except to the extent it has given SCSS written notice prior to the execution of this Agreement, (i) the work and/or services to be performed hereunder are not subject to any Federal, State or local prevailing wage statute or regulations, and (ii) to the best of its knowledge there is no asbestos or presumed asbestos-containing material, formaldehyde or other potentially toxic or hazardous material contained within, or in, on or under any portion of any area where work will be performed under this Agreement. If such materials (whether or not disclosed by Customer) are discovered and such materials provide an unsafe or unlawful condition, such discovery shall constitute a cause beyond SCSS's reasonable control and SCSS shall not start or continue to perform its work under the contract until Customer has remedied the unsafe or unlawful condition at Customer's sole expense. Customer shall indemnify and hold SCSS and its assigns harmless from and against any and all claims, costs and expenses of any kind (including attorney's fees) for fines, penalties, back wages, bodily injury, property damage, delay or work stoppage that arises under or results from a breach of the foregoing representations (regardless of whether or not Customer disclosed such materials to SCSS).

K. Customer agrees that SCSS may conduct a credit investigation and review, or provide a copy of the Agreement, or related information to US Bank Equipment Finance for the purpose of evaluating credit. In such event, Customer shall provide, in a timely manner, such financial information as SCSS may request. Customer represents and warrants that all such financial information accurately and completely presents Customer's financial condition as of the date of execution of this Agreement.

L. Customer hereby authorizes SCSS to execute and file financing statements and/or continuation statements under the Uniform Commercial Code on Customer's behalf and to file such documents in all places where necessary to perfect SCSS's interest in the equipment. Customer agrees to execute any such instruments as SCSS may request from time to time.

7. Further Obligations of SCSS; Limitations

A. SCSS shall not be held responsible or liable for delay in installation of the system or interruption of service, due to strikes, lockouts, riots, floods, fires, lightning, acts of God or any cause beyond the control of SCSS, including interruptions in telephone service. SCSS will not be required to perform installation or supply service to Customer while any such cause shall continue.

B. If Customer has subscribed to monitoring service, the System will be connected to SCSS's monitoring facility (the "Center"). Unless specifically requested otherwise by the Customer and approved by SCSS's Center, when a burglar alarm signal from the alarm system is received, the Center will first try to telephone Customer's premises, and if there is no answer then will try to telephone the first available person on Customer's emergency call list, to verify whether or not an emergency condition requiring police response exists. If there is no answer to both of these calls or the person contacted indicates that an emergency exists, the Center will attempt to notify the police department. The Center will also attempt to contact someone on the emergency call list to advise them that the police have been notified. When a fire alarm, hold-up alarm or duress alarm signal is received, the Center will attempt to notify the police or fire department or other emergency personnel and the first available person on the emergency call list. When a non-emergency signal is received, the Center will attempt to contact the premises or the first available person on the emergency call list but will not notify emergency authorities. The Center may choose not to notify emergency personnel if it has reason to believe that an emergency condition does not exist. SCSS and Customer are obligated to comply

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with all notification and response requirements imposed by governmental agencies having jurisdiction over the system. SCSS reserves the right to discontinue or change any particular response service due to such governmental or insurance requirements without notice. Customer consents to the tape and video recording of telephonic and video communications between Customer's premises and SCSS, and will inform its employees and third parties that such recordings are authorized. If Customer's police or fire department now or in the future requires physical or visual verification of an emergency condition before responding to a request for assistance, Customer agrees to subscribe to such service if provided by SCSS, or otherwise comply with such requirements, and an additional fee may apply for such services.

C. If video equipment is installed, it may be integrated into the system and, upon activation, will send a video transmission to the Center. The Center will first attempt to verify the nature of the emergency by viewing the video. If the Center determines that an emergency condition exists, it will try to first telephone the premises, if available, and report the emergency condition. If there is no answer or the person answering confirms the emergency condition, then, based upon the nature of the emergency condition, the Center will notify the proper police or fire department or other emergency personnel, and the next available person on the emergency call list. If the Center determines that an emergency condition does not exist or the video is inconclusive, the Center will use the notification procedures set forth in paragraph 7B above.

D. Customer understands that, if the system installed is monitored, due to the nature of the method used for communicating alarm signals to SCSS's monitoring center, there may be times when that communication method is not able to transmit signals and SCSS will not receive alarm signals. Digital communicators use standard telephone lines and SCSS does not receive signals when the telephone system becomes non-operational or the telephone line is placed on vacation status, cut, interfered with or otherwise damaged. There will be times when any radio frequency method, such as cellular, public or private radio systems or Internet based service, cannot transmit an alarm signal due to lack of signal strength, network congestion, or availability of a communications channel. Similarly, any other type of communication method installed under this Agreement also can experience an inability to communicate alarm signals. Customer understands that SCSS offers several levels of communication methods of alarm signals to the monitoring center and that the Services described on the front page of this Agreement and on the Schedule of Service and Protection have been chosen by Customer after considering and balancing the levels of protection afforded by various communication methods and the related costs. Customer acknowledges and agrees that Customer is solely responsible for the selection of the type of communication method and whether the utilization of more than one communication method is required. Communications networks provided by independent carriers or providers are wholly beyond SCSS's control and are maintained and serviced, solely by the applicable carrier or provider. Customer agrees to reimburse SCSS for any costs incurred to reprogram the communicator because of area code changes or other dialing pattern changes. If telephone service is used, the use of DSL or other broadband telephone service may prevent the system from transmitting alarm signals to the monitoring center and/or interfere with the telephone line-seizure feature of the system. Such services should be installed on a telephone number that is not used for alarm signal transmission. Customer agrees to notify SCSS if Customer has installed or intends to install DSL or other broadband service. IMMEDIATELY AFTER THE INSTALLATION OF DSL OR OTHER BROADBAND SERVICE, THE SYSTEM'S SIGNAL TRANSMISSION MUST BE TESTED WITH THE MONITORING CENTER.

E. For those premises with a direct connection to the police, fire department or other agency, it is mutually understood and agreed that signals transmitted hereunder will be monitored in police and/or fire departments or other agencies, and that the personnel of such police and/or fire departments or other agencies are not SCSS's agents nor does SCSS assume any responsibility for the manner in which such signals are monitored or the response, if any, to such signals.

F. SCSS shall not be responsible for the replacement of equipment or parts no longer commercially available to SCSS.

G. If an Access Control Preventative Maintenance or Software Support option is selected by Customer, SCSS will provide and install software upgrades as they become commercially available, during normal SCSS working hours. Software upgrades that do not affect the Customer's current operations, as solely determined by SCSS and the OEM, will not be installed by SCSS. In the event the Customer elects to have someone other than SCSS install the software upgrade, the Customer shall assume any and all liability for any damage caused pursuant to the installation. Service and upgrades for third party software not supplied by SCSS are excluded from this agreement.

8. **Title to the SCSS System; Proprietary Protection**

A. SCSS System shall at all times remain solely the property of SCSS, or its assignee and Customer agrees not to permit the attachment thereto of any equipment not furnished by SCSS. It is further understood and agreed that SCSS may remove or abandon all or any part of the SCSS System, including all wiring installed by SCSS, upon termination of the Agreement by lapse of time, default of any monies due hereunder, or otherwise without any obligation to repair or redecorate any portion of the protected premises, provided that such removal or abandonment shall not be held to constitute a waiver of the right of SCSS, or its assignee, to collect any charges which have accrued hereunder. Customer shall keep all SCSS owned equipment at all times free and clear from all liens, claims, levies, encumbrances, security interests and processes, of any nature whatsoever. Customer shall give SCSS immediate notice of any such attachment or other judicial process affecting any of the equipment. Without SCSS's written permission, Customer shall not attempt to or actually: (i) pledge, land, create a security interest in, sublet, exchange, trade, assign, swap, use for an allowance or credit or otherwise; (ii) allow another to use; (iii) part with possession; (iv) dispose of; or (v) remove from the location of installation, any item of equipment. If any item of equipment is exchanged, assigned, traded, swapped, used for an allowance or credit or otherwise to acquire new or different equipment (the new equipment) without SCSS's prior written consent, then all of the new equipment shall become equipment owned by SCSS subject to this Agreement and the applicable Schedule.

B. Any computer application program and/or documentation, collectively referred to as "Software", that is provided by SCSS under this Agreement for a Sold System or a SCSS System, is owned by SCSS, its affiliates or one of its OEMs and is protected by United States and international copyright laws and international treaty provisions. Any breach of this Agreement will automatically terminate the Customer's right to use this Software, and the Customer is obligated to immediately return such Software to SCSS. Customer may not copy the Software for any reason other than per the dictates of any end user software license agreement. Customer may not reverse-engineer, disassemble, decompile or attempt to discover the source code of any Software. Customer acknowledges that any breach of this section shall result in irreparable injury to SCSS for which the amount of damages would be unascertainable. Therefore, SCSS may, in addition to pursuing any and all remedies provided by law, obtain an injunction against Customer from any court having jurisdiction, restraining any violation of this section.

9. **Termination**

A. SCSS may terminate this Agreement immediately upon written notice:

i. In the event Customer defaults in the performance of any of the terms and conditions of this Agreement, including the failure to make any payment as agreed herein, in which case the balance of all monies due and for the unexpired term of this Agreement shall become immediately due and payable, together with interest at the maximum legally allowable rate. Customer shall also pay attorney and/or collection fees, defined as an additional thirty-five percent (35%) of the outstanding balance owed, incurred in collecting Customer's account; or

ii. In the event SCSS's Customer Service Center, the telephone lines, wires or SCSS's equipment within Customer premises are destroyed or so substantially damaged that it is commercially impractical to continue service to Customer's premises; or

iii. As provided in Article 2 relating to expiration.

B. Customer may terminate the Agreement:

i. Immediately upon written notice, in the event Customer's premises are, by any cause beyond the control of the Customer, destroyed or so substantially damaged that it is commercially impractical for Customer to continue any operations at such premises; provided that if the Customer is using SCSS-owned equipment, the Customer must pay SCSS all payments remaining to be made under this Agreement through its scheduled expiration; or

ii. As provided in Article 2 relating to expiration and Article 3(A) relating to price increases.

C. Upon termination of this Agreement, Customer shall permit SCSS access to Customer's premises in order to deactivate the telephone line signaling device and/or to remove the System pursuant to Article 8.

10. **Assignment**

This Agreement is not assignable by the Customer except upon written consent of SCSS first being obtained. SCSS shall have the right to assign this Agreement, or to subcontract any of its obligations under this Agreement, without notice to, or consent of, the Customer.

11. **Insurance and Waiver of Subrogation**

Customer shall obtain, and maintain, insurance coverage to cover all losses, damage, or injury, related to or sustained by Customer in connection with, the services provided by SCSS. For all losses, damage or injury above the limits set forth in paragraph 4B, Customer shall look solely to its insurer for recovery of its loss and hereby waives any and all claims for such loss against SCSS. Customer agrees to obtain insurance permitting said waiver without invalidating coverage. Customer does hereby for itself and other parties claiming under it release and discharge SCSS from and against all claims arising from hazards covered by Customer's insurance, it being expressly agreed and understood that no insurance company or insurer will have any right of subrogation against SCSS.

12. **Severability and Savings**

In the event any one or more of the provisions of this Agreement shall for any reason be held to be invalid, void, illegal, or unenforceable by any court, arbitrator, or governmental agency, the remaining provisions of this Agreement shall remain in full force and effect, and the invalid, void, illegal, and/or unenforceable provision(s) shall survive to the extent not so held.

License information (as of 8/31/2018): AK 1003300; 104891: AL 888, 1278, 1322; 1472. Complaints may be directed to Alabama Electronic Security Board of Licensure, 7956 Vaughn Rd., Montgomery, AL 36116 (334) 264-9388; 48682: AZ ROC204975: AR 0329770517; CMPY.0001911, Regulated by Arkansas Bd of Private Investigators and Private Security Agencies, #1 State Police Plaza Dr, Little Rock, AR 72209 (501) 618-8600; CA 848019 - C10; LCO5911; ACO6055, Alarm company operators are licensed and regulated by the Bureau of Security & Investigative Services, Dept. of Consumer Affairs, Sacramento, CA 95814; CT ELC.0184651-L5; DE 04-158; FAL-0001; FL EF0000772; GA 439701; IA AC-211; ID 015830; 022726-AA-4; IL 127001274; KY 338 (Louisville); LA F1102; F875; F1277; 61931; MA 12737A; MD 107-1626, 259; MI 5103306; 3601205772; MN TS001238; MS 19207-SC; 15024172; MT FPL-BEL-000132; NC 20471 SP-FA/LV; 1839-CSA, Alarm Systems Licensing Bd., 3101 Industrial Drive, Ste 104, Raleigh, NC 27609 (919)788-5320; NH 0424-C; NJ 1074485; 659423; Burglar Alarm Business Lic. # 34BX00022000; NM 374554; NV F400; F401; 0071024; NY 12000293169, Licensed by NYS Dept. of State: OH 53-59-1512; OK 953; OR 161567; PA 032736; RI 9448A; TSC 4996; SC FAC3387; BAC5501; TN 1180; 1446; 1650; 1446; CE-D 65528; TX ACR2639; ECR1821; B02140; UT 5704068-6501; VA 2705-087235A, 11-5461; WA STANLCS925MZ; WV 045298; WI 869322; WY LV-G-23679.

13. **Trial by Jury**
Unless prohibited by law, both parties to this Agreement, knowingly, voluntarily and intentionally waive any right they may have to a trial by jury in respect of any litigation arising out of, under, in connection with, or relating to this Agreement.

14. **Choice of Law**
This Agreement is entered into in the State of New York and shall be interpreted, enforced and governed under the laws of the State of New York without regard to application of conflicts of laws principles that would require the application of any other law.

License Information (as of 8/31/2018): AK 1003300; 104891; AL 888, 1278, 1322; 1472, Complaints may be directed to Alabama Electronic Security Board of Licensure, 7956 Vaughn Rd., Montgomery, AL 36116 (334) 264-9388; 46582, AZ ROC204975; AR 0329770517; CMPY.0001911, Regulated by Arkansas Bd of Private Investigators and Private Security Agencies, #1 State Police Plaza Dr, Little Rock, AR 72209 (501) 618-8600; CA 848019 - C10; LCO5911; ACO6055, Alarm company operators are licensed and regulated by the Bureau of Security & Investigative Services, Dept. of Consumer Affairs, Sacramento, CA 95814; CT ELC.0184651-L5; DE 04-158; FAL-0001; FL EF0000772; GA 439701; IA AC-211; ID 015830; 022726-AA-4; IL 127001274; KY 338 (Louisville); LA F1162; F875; F1277; 61931; MA 12737A; MD 107-1828; 259; MI 6103306; 3601205772; MN TS001238; MS 19207-SC; 15024172; MT FPL-BEL-000132; NC 23471 SP-FA/LV; 1639-CSA, Alarm Systems Licensing Bd., 3101 Industrial Drive, Ste 104, Raleigh, NC 27609 (919)788-5320; NH 0424-C; NJ 1074485; 659423; Burglar Alarm Business Lic. # 34BX00022000; NM 374554; NV F400; F491; 0071024; NY 12000293169, Licensed by NYS Dept. of State; OH 53-89-1512; OK 953; OR 161567; PA 032738; RI 9448A; TSC 4995; SC FAC3387; BAC5501; TN 1180; 1448; 1650; 1448; CE-D 65528; TX ACR2639; ECR1821; B02140; UT 5704068-6501; VA 2705-087235A, 11-5481; WA STANLCS925JZ; WV 045298; WI 869322; WY LV-G-23879.

15. Entire Agreement

It is agreed to and understood by the parties that this Agreement, including the provisions of Article 4 and on the attached Schedule, constitutes the entire Agreement between the parties, and supersedes and replaces all other prior understandings or agreements, whether oral or written, relating to the premises covered by this Agreement. This Agreement may not be changed, modified or varied except in writing, signed by an authorized representative of SCSS. It is understood and agreed by and between the parties hereto, that the terms and conditions of this Agreement shall govern notwithstanding any additional or inconsistent terms or conditions contained in any purchase order or other document submitted by Customer. This Agreement shall not become binding on SCSS until approved and accepted by SCSS or SCSS begins the installation or services as provided below. Customer hereby acknowledges that he/she has read this entire Agreement and agrees to be bound by all its terms and conditions.

STANLEY Convergent Security Solutions, Inc.	Customer: Williamson County, Georgetown Pct 3 Annex
Security Representative (Sign)	Customer (Sign)
Security Representative (Print)	Customer (Print)
	Title
STANLEY Authorized Manager (Sign)	
STANLEY Authorized Manager (Print)	

Not Binding on SCSS without either Authorized Management Approval Signature or SCSS Begins the Installation or Services.

Account Payment Settings:

PO Required by customer: ☐

Billing Addresses:	Installation Invoices	Recurring Services Invoices	Time & Material Invoices
Street Address:	3101 SE Inner Loop	3101 SE Inner Loop	3101 SE Inner Loop
City	Georgetown	Georgetown	Georgetown
State/Providence	TX	TX	TX
Country	United States	United States	United States

License Information (as of 8/31/2018): AK 1003300; 104891; AL 888, 1278, 1322; 1472. Complaints may be directed to Alabama Electronic Security Board of Licensure, 7956 Vaughn Rd., Montgomery, AL 36116 (334) 264-9388; 49662; AZ ROC204975; AR 0329770517; CMPY.0001911, Regulated by Arkansas Bd of Private Investigators and Private Security Agencies, #1 State Police Plaza Dr, Little Rock, AR 72209 (501) 618-8600; CA 848019 - C10; LCO5911; ACO6055, Alarm company operators are licensed and regulated by the Bureau of Security & Investigative Services, Dept. of Consumer Affairs, Sacramento, CA 95814; CT ELC.0184651-L5; DE 04-158; FAL-0001; FL EF0000772; GA 439701; IA AC-211; ID 015830; 022726-AA-4; IL 127001274; KY 338 (Louisville); LA F1162, F875; F1277; 61931; MA 12737A; MD 107-1828; 259; MI 5103306; 3601205772; MN TS001236; MS 19207-SC; 15024172; MT FPL-BEL-000132; NC 23471 SP-FA/LV; 1839-CSA, Alarm Systems Licensing Bd., 3101 Industrial Drive, Ste 104, Raleigh, NC 27609 (919)788-5320; NH 0424-C; NJ 1074485; 659423; Burglar Alarm Business Lic. # 34BX00022000; NM 374584; NV F400; F401; 0071024; NY 12000293169, Licensed by NYS Dept. of State: OH 53-89-1512; OK 953; OR 161567; PA 032736; RI 9448A; TSC 4995; SC FAC3387; BAC5501; TN 1180; 1445; 1650; 1446; CE-D 65528; TX ACR2639; ECR1821; B02140; UT 5704058-6501; VA 2705-087235A, 11-5481; WA STANLCS925MZ; WV 045299; WI 969322; WY LV-G-23879.

Zip/Postal Code	78626	78626	78626
Attention			
Billing Contact	Dale Butler	Dale Butler	Dale Butler
Billing Phone	(512) 943-1100	(512) 943-1100	(512) 943-1100
Billing ID			
Special Handling Required	Y	Y	Y
Notes for Special Handling	TAX Exempt	TAX Exempt	TAX Exempt
PO #			

License Information (as of 8/31/2018): AK 1003300; 104891; AL 888, 1278, 1322; 1472, Complaints may be directed to Alabama Electronic Security Board of Licensure, 7956 Vaughn Rd., Montgomery, AL 36116 (334) 264-9388; 48682; AZ ROC204975; AR 0329770517; CMPY.0001911, Regulated by Arkansas Bd of Private Investigators and Private Security Agencies, #1 State Police Plaza Dr, Little Rock, AR 72209 (501) 618-8600; CA 848019 - C10; LCO5911; ACO6055, Alarm company operators are licensed and regulated by the Bureau of Security & Investigative Services, Dept. of Consumer Affairs, Sacramento, CA 95814; CT ELC.0184651-L5; DE 04-158; FAL-0001; FL EF0000772; GA 439701; IA AC-211; ID 015830; 022726-AA-4; IL 127001274; KY 338 (Louisville); LA F1162; F875; F1277; 61931; MA 12737A; MD 107-1828; 259; MI 5103306; 3601205772; MN TS001238; MS 18207-SC; 15024172; MT FPL-BEL-000132; NC 23471 SP-FA/LV; 1839-CSA, Alarm Systems Licensing Bd., 3101 Industrial Drive, Ste 104, Raleigh, NC 27609 (919)788-5320; NH 0424-C; NJ 1074485; 659423; Burglar Alarm Business Lic. # 34BX00022000; NM 374554; NV F400; F401; 0071024; NY 12060293159, Licensed by NYS Dept. of State; OH 53-89-1512; OK 953; OR 161567; PA 032736; RI 9448A; TSC 4998; SC FAC3387; BAC5501; TN 1160; 1448; 1650; 1446; CE-D 69528; TX ACR2639; ECR1821; B02140; UT 5704068-6501; VA 2705-087235A, 11-5461; WA STANLCS925MZ; WV 045298; WI 969322; WY LV-G-23879.

Commissioners Court - Regular Session **40.**

Meeting Date: 12/11/2018

Dell quote for VMWare

Submitted For: Randy Barker **Submitted By:** Kerstin Hancock, Purchasing

Department: Purchasing

Agenda Category: Regular Agenda Items

Information

Agenda Item

Discuss, consider and take appropriate action on approving purchase for VMWare from Dell EMC, per quote #1025811320361.1 in the amount of $298,363.62 pursuant to DIR contract #DIR-TSO-3763.

Background

This software purchase from Dell will provide the bulk of the Software Defined Network Project solution (there are hardware and services components separately from this). This is software from VMWare (part of Dell EMC) and integrates with the County's current infrastructure and investments in VMWare. Facilitates security by implementing "micro-segmentation" of servers and limiting access to selected users/computers/protocols all while providing more efficient communication between servers. Other solutions that were considered by the County did not offer the same integration into the County's infrastructure and were also more costly. This is a procurement via the state DIR contract and is within the planned budget for this project. We are purchasing two years of support up front, after this time support costs will be included in the Technology Services annual budget. Software Defined Network is P511 Award 2015 CIP for $200,000 and P511 Award 2017 CIP for $150,000.

Fiscal Impact

From/To	Acct No.	Description	Amount

Attachments

quote

Form Review

Inbox	Reviewed By	Date
Purchasing (Originator)	Randy Barker	12/06/2018 11:10 AM
County Judge Exec Asst.	Wendy Coco	12/06/2018 11:51 AM
Form Started By: Kerstin Hancock		Started On: 12/06/2018 09:04 AM
Final Approval Date: 12/06/2018		

A quote for your consideration!

Based on your business needs, we put the following quote together to help with your purchase decision. Please review your quote details below, then contact your sales rep when you're ready to place your order.

Total: $ 298,363.62

Quote number:	Quote date:	Quote expiration:
1025811320361.1	Nov. 28, 2018	Dec. 31, 2018

Company name:	Customer number:	Phone:	
WILLIAMSON COUNTY ITS	10643470	(512) 943-1456	Contract No: 75AHH Customer Agreement No: DIR-TSO-3763

Sales rep information:

Michael Villa Jr.
Michael_Villa_Jr@DellTeam.com
(800) 456-3355
Ext: 80000

Billing Information:

WILLIAMSON COUNTY ITS
301 SE INNER LOOP STE 105
GEORGETOWN
TX 78626-8207
US
(512) 943-1456

Pricing Summary

Item	Qty	Unit Price	Subtotal
VLA VMWARE NSX DATA CENTER ADVANCED PER PROCESSOR	28	$3,129.10	$87,614.80
VLA VMWARE PROD SNS NSX DATA CENTER ADVANCED PER PROCESSOR FOR 2 YEAR	28	$1,501.97	$42,055.16
VLA VMWARE VREALIZE NETWORK INSIGHT ADVANCED (PER CPU)	28	$737.43	$20,648.04
VLA VMWARE PROD SUP VRLZ NTWK INSGT NSX P CPU 2YR	28	$353.97	$9,911.16
VLA VMWARE SITE RECOVERY MANAGER 8 STANDARD (25 VM PACK)	3	$2,861.46	$8,584.38
VLA VMWARE PROD SUP/SUB FOR VMW SITE RECOVERY MANAGER 8 STD 25 VM PK FOR 2YR	3	$1,373.50	$4,120.50
VLA VMWARE CREDITS PREPD SVCS PSO 1201+	1467	$74.22	$108,880.74
VLA VMWARE APPDEFENSE A1 - STANDARD - 24 MONTH PREPAID	28	$591.03	$16,548.84
		Subtotal:	$298,363.62
		Shipping:	$0.00
		Environmental Fees:	$0.00
		Non-Taxable Amount:	$0.00
		Taxable Amount:	$0.00
		Estimated Tax:	$0.00
		Total:	**$298,363.62**

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Special lease pricing may be available for qualified customers. Please contact your DFS Sales Representative for details.

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Dear Customer,

Your Quote is detailed below; please review the quote for product and information accuracy. If you find errors or desire certain changes please contact me as soon as possible.

Regards,

Michael Villa Jr.

Order this quote easily online through your Premier page, or if you do not have Premier, using Quote to Order

© 2014 Dell Inc. U.S. only. Dell Inc. is located at One Dell Way, Mail Stop 8129, Round Rock, TX 78682.

Shipping Group 1

Shipping Contact:	Shipping phone:	Shipping via:	Shipping Address:
MCCULLEY TAMMY	(512) 943-1455	Standard Delivery	WILLIAMSON COUNTY ITS 301 SE INNER LOOP GEORGETOWN TX 78626-8207 US

SKU	Description	Qty	Unit Price	Subtotal
	VLA VMWARE NSX DATA CENTER ADVANCED PER PROCESSOR **Contract No:** 75AHH **Customer Agreement No:** DIR-TSO-3763	28	$3,129.10	$87,614.80
AA436338	VLA VMWARE NSX DATA CENTER ADVANCED PER PROCESSOR	28	-	-

SKU	Description	Qty	Unit Price	Subtotal
	VLA VMWARE PROD SNS NSX DATA CENTER ADVANCED PER PROCESSOR FOR 2 YEAR **Contract No:** 75AHH **Customer Agreement No:** DIR-TSO-3763	28	$1,501.97	$42,055.16
AA436337	VLA VMWARE PROD SNS NSX DATA CENTER ADVANCED PER PROCESSOR FOR 2 YEAR	28	-	-

SKU	Description	Qty	Unit Price	Subtotal
	VLA VMWARE VREALIZE NETWORK INSIGHT ADVANCED (PER CPU) **Contract No:** 75AHH **Customer Agreement No:** DIR-TSO-3763	28	$737.43	$20,648.04
AA436355	VLA VMWARE VREALIZE NETWORK INSIGHT ADVANCED (PER CPU)	28	-	-

SKU	Description	Qty	Unit Price	Subtotal
	VLA VMWARE PROD SUP VRLZ NTWK INSGT NSX P CPU 2YR **Contract No:** 75AHH **Customer Agreement No:** DIR-TSO-3763	28	$353.97	$9,911.16
AA436339	VLA VMWARE PROD SUP VRLZ NTWK INSGT NSX P CPU 2YR	28	-	-

SKU	Description	Qty	Unit Price	Subtotal
	VLA VMWARE SITE RECOVERY MANAGER 8 STANDARD (25 VM PACK)	3	$2,861.46	$8,584.38

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	Contract No: 75AHH **Customer Agreement No:** DIR-TSO-3763			
AA436346	VLA VMWARE SITE RECOVERY MANAGER 8 STANDARD (25 VM PACK)	3	-	-

SKU	Description	Qty	Unit Price	Subtotal
	VLA VMWARE PROD SUP/SUB FOR VMW SITE RECOVERY MANAGER 8 STD 25 VM PK FOR 2YR **Contract No:** 75AHH **Customer Agreement No:** DIR-TSO-3763	**3**	**$1,373.50**	**$4,120.50**
AA436348	VLA VMWARE PROD SUP/SUB FOR VMW SITE RECOVERY MANAGER 8 STD 25 VM PK FOR 2YR	3	-	-

SKU	Description	Qty	Unit Price	Subtotal
	VLA VMWARE CREDITS PREPD SVCS PSO 1201+ **Contract No:** 75AHH **Customer Agreement No:** DIR-TSO-3763	**1467**	**$74.22**	**$108,880.74**
AA436344	VLA VMWARE CREDITS PREPD SVCS PSO 1201+	1467	-	-

SKU	Description	Qty	Unit Price	Subtotal
	VLA VMWARE APPDEFENSE A1 - STANDARD - 24 MONTH PREPAID **Contract No:** 75AHH **Customer Agreement No:** DIR-TSO-3763	**28**	**$591.03**	**$16,548.84**
AA436349	VLA VMWARE APPDEFENSE A1 - STANDARD - 24 MONTH PREPAID	28	-	-

Subtotal:	$298,363.62
Shipping:	$0.00
Environmental Fees:	$0.00
Estimated Tax:	$0.00
Total:	**$298,363.62**

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Unless you have a separate written agreement that specifically applies to this order, your order is subject to Dell's Terms of Sale (for consumers the terms include a binding arbitration provision). Please see the legal disclaimers below for further information.

Important Notes

Terms of Sale

Unless you have a separate written agreement that specifically applies to this order, your order will be subject to and governed by the following agreements, each of which are incorporated herein by reference and available in hardcopy from Dell at your request: Dell's Terms of Sale (www.dell.com/learn/us/en/uscorp1/terms-of-sale), which include a binding consumer arbitration provision and incorporate Dell's U.S. Return Policy (www.dell.com/returnpolicy) and Warranty (for Consumer warranties ; for Commercial warranties).

If this purchase includes services: in addition to the foregoing applicable terms, the terms of your service contract will apply (Consumer;Commercial). If this purchase includes software: in addition to the foregoing applicable terms, your use of the software is subject to the license terms accompanying the software, and in the absence of such terms, then use of the Dell-branded application software is subject to the Dell End User License Agreement - Type A (www.dell.com/AEULA) and use of the Dell-branded system software is subject to the Dell End User License Agreement - Type S (www.dell.com/SEULA).

If your purchase is for Mozy, in addition to the foregoing applicable terms, your use of the Mozy service is subject to the terms and conditions located at https://mozy.com/about/legal/terms.

If your purchase is for Boomi services or support, your use of the Boomi Services (and related professional service) is subject to the terms and conditions located at https://boomi.com/msa.

If this purchase is for (a) a storage product identified in the DELL EMC Satisfaction Guarantee Terms and Conditions located at

http://www.emc.com/collateral/sales/dellemc-satisfaction-guarantee-terms-and-conditions_ex-gc.pdf("Satisfaction Guarantee") and (ii) three (3) years of a ProSupport Service for such storage product, in addition to the foregoing applicable terms, such storage product is subject to the Satisfaction Guarantee.

You acknowledge having read and agree to be bound by the foregoing applicable terms in their entirety. Any terms and conditions set forth in your purchase order or any other correspondence that are in addition to, inconsistent or in conflict with, the foregoing applicable online terms will be of no force or effect unless specifically agreed to in a writing signed by Dell that expressly references such terms.

Pricing, Taxes, and Additional Information

All product, pricing, and other information is valid for U.S. customers and U.S. addresses only, and is based on the latest information available and may be subject to change. Dell reserves the right to cancel quotes and orders arising from pricing or other errors. Please indicate any tax-exempt status on your PO, and fax your exemption certificate, including your Customer Number, to the Dell Tax Department at 800-433-9023. Please ensure that your tax-exemption certificate reflects the correct Dell entity name: **Dell Marketing L.P.**
Note: All tax quoted above is an estimate; final taxes will be listed on the invoice.

If you have any questions regarding tax please send an e-mail to Tax_Department@dell.com.

For certain products shipped to end-users in California, a State Environmental Fee will be applied to your invoice. Dell encourages customers to dispose of electronic equipment properly.

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Commissioners Court - Regular Session **41.**

Meeting Date: 12/11/2018

Reject proposals for RFP 1810-269 Emergency Generator and Automatic Transfer Switch Preventive Maintenance, Repair and Rental Services

Submitted For: Randy Barker **Submitted By:** Johnny Grimaldo, Purchasing

Department: Purchasing

Agenda Category: Regular Agenda Items

Information

Agenda Item

Discuss, consider, and take appropriate action on rejecting proposals for RFP #1810-269 Emergency Generator and Automatic Transfer Switch Preventive Maintenance, Repair and Rental Services and request that information related to competition be excepted pursuant to Texas Government Code 552.104 and authorize the Purchasing Agent to advertise and receive proposals under the new RFP #1812-283.

Background

Williamson County received 1 responsive proposal for RFP #1810-269. It is Facilities' recommendation that we reject all submissions, in order to obtain a greater number of proposals that would serve in the best interest of the county. An exemption is requested Pursuant to Government Code Sec. 552.104. EXCEPTION: INFORMATION RELATED TO COMPETITION OR BIDDING. (a) Information is excepted from the requirements of Section 552.021 if it is information that, if released, would give advantage to a competitor or bidder. Estimated initial cost of $50,000.00. Christi Stromberg is the point of contact and the funding source is 100-0509-4500.

Fiscal Impact

From/To	Acct No.	Description	Amount

Attachments

Rejection Letter

RFP 1812-283 RFP Packet

Form Review

Inbox	Reviewed By	Date
Purchasing (Originator)	Randy Barker	12/06/2018 11:37 AM
County Judge Exec Asst.	Wendy Coco	12/06/2018 11:51 AM
Form Started By: Johnny Grimaldo		Started On: 12/06/2018 11:15 AM
Final Approval Date: 12/06/2018		

Williamson County Facilities
3101 SE Inner Loop
Georgetown, Texas 78626
512-943-1599
512-930-3313 Fax
facilities@wilco.org

November 30, 2018

To: Purchasing

Re: RFP1810-269 Recommendation

The recommendation from the RFP Evaluation Committee is to reject all submittals for RFP 1810-269 - Emergency Generator and Automatic Transfer Switch Preventative Maintenance and Repair, because of the incomplete responses received only leaving a single proposal to evaluate. Our preference is to have more than one proposal to evaluate and make a recommendation on.

The Facilities Department concurs with the evaluation committee's recommendation.

Sincerely,

Dale Butler
Facilities Director
Williamson County

Solicitation 1812-283

Emergency Generator And Automatic Transfer Switch Preventive Maintenance, Repair

Bid Designation: Public

Williamson County, Texas

Bid 1812-283
Emergency Generator And Automatic Transfer Switch Preventive Maintenance, Repair

Bid Number	1812-283
Bid Title	Emergency Generator And Automatic Transfer Switch Preventive Maintenance, Repair
Bid Start Date	In Held
Bid End Date	Jan 2, 2019 3:00:00 PM CST
Question & Answer End Date	Dec 28, 2018 3:00:00 PM CST
Bid Contact	Johnny Grimaldo Purchasing Specialist III 512-943-1553 johnny.grimaldo@wilco.org
Contract Duration	**36 months**
Contract Renewal	2 annual renewals
Prices Good for	**Not Applicable**
Bid Comments	**Williamson County is searching for qualified firms to submit proposals for the provision of emergency generator and automatic transfer switches preventative maintenance and repair and rental of generators as needed in various facilities maintained by Williamson County located in Georgetown, Texas.**

Item Response Form

Item	**1812-283--01-01 -** Please attach all documents to this line
Quantity	**1 each**

Prices are not requested for this item.

Delivery Location **Williamson County, Texas**

No Location Specified

Qty 1

Description
Please attach all documents to this line

PUBLIC ANNOUNCEMENT AND GENERAL INFORMATION

WILLIAMSON COUNTY PURCHASING DEPARTMENT
SOLICITATION 1812-283

Emergency Generator And Automatic Transfer Switch Preventive Maintenance, Repair

PROPOSALS MUST BE RECEIVED ON OR BEFORE:
Jan 2, 2019 3:00:00 PM CST

PROPOSAL WILL BE PUBLICLY OPENED:
Jan 2, 2019 3:00:00 PM CST

Notice is hereby given that sealed Proposals for the above-mentioned goods and/or services will be accepted by the Williamson County Purchasing Department. Williamson County uses BidSync to distribute and receive proposals. Specifications for this RFP may be obtained by registering at www.bidsync.com.

Williamson County prefers and requests electronic submittal of this Proposal.

All electronic proposal must be submitted via: www.bidsync.com

Electronic proposals are requested, however paper proposals will currently still be received, until further notice and may be mailed or delivered to the address listed below.

Respondents are strongly encouraged to carefully read this entire RFP.

All interested Respondents are invited to submit a Proposal in accordance with the Instructions and General Requirements, Proposal Format, Proposal Specifications, and Definitions, Terms and Conditions stated in this RFP.

Please note that a complete package must be submitted choosing one of the above two methods. Split packages submitted will be considered "unresponsive" and will not be accepted or evaluated.

Williamson County will not accept any Proposals received after the submittal deadline, and shall return such Proposals unopened to the Respondent.

General Information:

- If mailed or delivered in person, Proposal and Proposal addenda are to be delivered in sealed envelope on or before the submittal deadline, as noted in the Public Announcement and General Information listed above for this RFP, to:

  Williamson County Purchasing Department
  Attn: **PROPOSAL NAME AND NUMBER**
  901 South Austin Avenue
  Georgetown, Texas 78626

  - Respondents should list the Proposal Number, Proposal Name, Name and Address of Respondent, and the Date of the Proposal opening on the outside of the box or envelope and note "Sealed Proposal Enclosed."
  - Respondent should submit one (1) original.
  - Williamson County will NOT be responsible for unmarked or improperly marked envelopes.
  - Williamson County will not accept any responsibility for Proposals being delivered by third party carriers.
  - Facsimile transmittals will NOT be accepted.

- Proposals will be opened publicly in a manner; however, to avoid public disclosure of contents, only the names of Respondents will be read aloud.

- All submitted questions with their answers will be posted and updated on www.bidsync.com.

- It is the Respondent's responsibility to review all documents in BidSync, including any Addenda that may have been added after the document packet was originally released and posted.

  - Any Addenda and/or other information relevant to the RFP will be posted on www.bidsync.com.

  - The Williamson County Purchasing Department takes no responsibility to ensure any interested Respondent has obtained any outstanding addenda or additional information.

Williamson County – Request for Proposal (RFP)

SECTION 1 - DEFINITIONS

Addendum/Addenda – means any written or graphic instruments issued by the County prior to the consideration of Proposals which modify or interpret the Proposal Documents by additions, deletions, clarifications, or corrections.

Agreement/Ensuing Agreement(s) – means the Successful Respondent may be required by the County to sign an additional Agreement containing terms necessary to ensure compliance with the RFP and the Respondent's Proposal. Such Ensuing Agreement(s) shall contain the Proposal specifications, terms and conditions that are derived from the RFP.

Contract – means this RFP and the Proposal of the Successful Respondent shall become a Contract between the Successful Respondent and the County once the Successful Respondent's Proposal is properly accepted by the Williamson County Commissioners Court (sometimes referred to herein as the Commissioner's Court").

Commissioner's Court – means the Williamson County Commissioners Court.

County – means Williamson County, a political subdivision of the State of Texas.

Executive Summary – means the document submitted by Respondent that represents a concise summary of the contents of the Proposal. It does not include any information concerning costs.

Proposal Documents – means the Legal Notice, RFP including attachments, and any Addenda issued by the County prior to the consideration of any Proposals.

Proposal – means the complete, properly signed document, and ALL required forms and documentation listed in the proposal package which have been submitted in accordance with this RFP package. A Proposal submitted in accordance with this RFP is irrevocable during the specified time period for evaluation and acceptance of Proposals, unless a waiver is obtained from the Williamson County Purchasing Agent.

Respondent – means a person or entity who submits a Proposal in response to this RFP.

Request for Proposals (RFP) – means this document, together with the attachments thereto and any future Addenda issued by the County.

Successful Respondent– means the responsible Respondent who, in the County's sole opinion, submits the Proposal which is in the best interest of the County, taking into account factors identified herein, and to whom the County intends to award the Contract.

SECTION 2 - RESPONSE FORMAT AND SUBMISSION

2.1 INTRODUCTION

Each Proposal submitted in response to this RFP should clearly reference the numbered sections of this RFP that require a response. Failure to arrange the Proposal as requested may result in the disqualification of the Proposal.

Though there is not a page limit for Proposals, to save natural resources including paper, and to allow the County staff to efficiently evaluate all submitted Proposals, the County requests that Proposals be orderly, concise, but comprehensive in providing the requested information. Conciseness and clarity of content are emphasized and encouraged. If mailed or delivered in person, please limit additional, non requested information.

Please provide your Proposal response using:

A. 8 ½" x 11" pages, inclusive of any cover letter or supporting materials.

B. The least amount of plastic/laminate or other non-recyclable binding materials.

C. Single-sided printing.

Vague and general Proposals will be considered non-responsive, and may, at the County's sole discretion, result in disqualification. Proposals must be legible and complete. Failure to provide the required information may result in the disqualification of the Proposal. All pages of the Proposal should be numbered, and the Proposal should contain an organized, paginated table of contents corresponding to the sections and pages of the Proposal.

2.2 ORGANIZATION OF PROPOSAL CONTENTS AND TABLE OF CONTENTS

Each Proposal should be submitted with a table of contents that clearly identifies and denotes the location of all enclosures of the Proposal. The table of contents should follow the RFP's structure as much as is practical.

Each Proposal should be organized in the manner described below:

A. Transmittal Letter. Please see Section 2.3, Transmittal Letter, for more information.

B. Table of Contents.

C. Executive Summary. Please see Section 2.4, Executive Summary.

D. Proposal Response to Criteria. (Please see the sections in this RFP package that list the Specifications & Cost Proposal, Experience and Qualifications, References, and Implementation Strategy to respond to our criteria in a clear and concise manner)

E. Price Sheet.

F. References: Identification of three (3) references within the last four (4) years, for which the Respondent is providing, or has provided, the goods and/or services (public sector) of the type requested in this RFP. Include the name, position/title, and telephone number of a contact person at each entity.

G. Conflict of Interest Questionnaire.

H. Proposal Affidavit (Signature Page).

I. Attach your entities sample Contract, if applicable, for the County's review and consideration. This should include any additional terms or conditions. The County is not required to use the sample Contract submitted.

2.3 TRANSMITTAL LETTER

The Respondent should submit a Transmittal Letter that provides the following information:

A. Name and address of individual or business entity submitting the Proposal.

B. Respondent's type of business entity (i.e., Corporation, General Partnership, Limited Partnership, LLC, etc.). See Section 3.5, Signature of Respondent, for more information.

C. Place of incorporation or organization, if applicable.

D. Name and location of major offices and other facilities that relate to the Respondent performance under the terms of this RFP.

E. Name, physical address, email address, business and fax number of the Respondent's principal contact person regarding all contractual matters relating to this RFP.

F. The Respondent's Federal Employer Identification Number.

G. A commitment by the Respondent to provide the services required by the County;

H. A statement that the Proposal is valid for the time specified on page three (3), under the section named *Prices Good for*, of this Proposal packet. Any Proposal containing a term of less than t required amount, may at the County's sole discretion, be rejected as non-responsive.

I. If the Proposal being submitted will have an effect on air quality for the County (as it relates to any state, federal, or voluntary air quality standard), then the Respondent is encouraged to provide information in narrative indicating the anticipated air quality impact. See Section 4.40, Air Quality for more information.

The Transmittal Letter should be signed by a person legally authorized to bind the Respondent to t representations in the Transmittal Letter and the Proposal. In the case of a joint Proposal, each party must sign the Transmittal Letter.

2.4 EXECUTIVE SUMMARY

The Respondent should provide an Executive Summary of its Proposal that asserts that the Respondent is providing in its response all of the requirements of this RFP. The Executive Summary should not include any information concerning the cost of the Proposal, but instead must represent a full and concise summary of the contents of the Proposal. It is recommended the Executive Summary include the following information:

A. Identify any goods and/or services that are provided beyond those specifically requested. If the Respondent is providing services and/or goods that do not meet the specific requirements of this RFP, but in the opinion of the Respondent are equivalent or superior to those specifically requested, any such differences should be noted in the Executive Summary. However, the Respondent must realize that failure to provide the goods and/or services specifically required, at the County's sole discretion, may result in disqualification of the Proposal.

B. Indicate why the Respondent believes that it is the most qualified Respondent to provide the services described in this RFP. The Successful Respondent must demonstrate extensive experience and understanding of the intent of this project. The Respondent should describe in detail the current and historical experience the Respondent and its subcontractors have that would be relevant to completing the project. References must contain the name of key personnel and telephone numbers for each contact, as described in Section 3.14, References.

C. Briefly state why the Respondent believes its proposed goods and/or services best meet the County's needs and RFP requirements, and the Respondent also should concisely describe any additional features, aspects, or advantages of its goods and/or services in any relevant area not covered elsewhere in its Proposal.

2.5 CONFLICT OF INTEREST

No public official shall have interest in a contract, in accordance with Vernon's Texas Codes Annotated, Local Government Code, Title 5, Subtitle C, Chapter 171, as amended.

As of January 1, 2006, all Respondents are responsible for complying with Local Government Code, Title 5, Subtitle C, Chapter 176. Additional information may be obtained from the County's website at the following link:

http://www.wilco.org/CountyDepartments/Purchasing/ConflictofInterestDisclosure/tabid/689/language/en-US/Default.aspx

Each Respondent must disclose any existing or potential conflict of interest relative to the performance of the requirements of this RFP. **Examples of potential conflicts of interest may include an existing business or personal relationship between the Respondent, its principal, or any affiliate or subcontractor with the County or any other entity or person involved in any way with the project that is subject to this RFP**. Similarly, any personal or business relationship between the Respondent, the principals, or any affiliate or subcontractor with any employee, or official of the County or its suppliers must be disclosed. Any such relationship that might be perceived or represented as a conflict must be disclosed. Failure to disclose any such relationship or reveal personal relationships with the County employees or officials may be cause for termination.

The County will decide if an actual or perceived conflict should result in Proposal disqualification.

By submitting a Proposal in response to this RFP, all Respondents affirm they have not given, nor intend to give, at any time hereafter, any economic opportunity, future employment, gift, loan, gratuity, special discount, trip, favor, or service to a the County public servant or any employee, official or representative of same, in connection with this procurement.

Each Respondent must provide a Conflict of Interest Statement with their Proposal Package. Package may be deemed incomplete without this form.

2.6 CERTIFICATE OF INTERESTED PARTIES – FORM 1295

As of January 1, 2016, all Respondents are responsible for complying with the Texas Government Code, Section 2252.908. The law states that the County may not enter into certain contracts with a Respondent unless the Respondent submits a disclosure of interested parties to the County at the time the Respondent submits the signed contract. The law applies only to a contract of the County on or after January 1, 2016 that either:

A. Requires an action or vote by the Commissioners Court before the contract may be signed (all contracts that fall under the jurisdiction of the Commissioners Court approval, such as contracts resulting from an Initiation for Bid (IFB), RFP, Request for Qualifications (RFQ), etc., excluding,

but not limited to, certain Juvenile Service contracts, contracts funded with Sheriff's seized fun monies, etc.); or

B. Has a value of at least $1,000,000.

By January 1, 2016, the Texas Ethics Commission will make available on its website, a new filing application that must be used to file Form 1295. Information regarding how to use the filing application is available on the Texas Ethics Commission website at the following link:

https://www.ethics.state.tx.us/whatsnew/elf_info_form1295.htm

A Respondent must:

A. Use the online application to process the required information on Form 1295.

B. Print a copy of the form which will contain a unique certification number.

C. An authorized agent of the Respondent must sign the printed copy of the form.

D. Have the form notarized.

E. File the completed Form 1295 and certification of filing (scanning and emailing form is sufficient) with Williamson County Purchasing Agent at the time the signed Contract is submitted for approval.

After the Commissioners Court award of the contract, the County shall notify the Texas Ethics Commission, using the Texas Ethics Commission's filing application, of the receipt of the filed Form 1295 and certification of filing not later than the 30th day after the date the contract binds all parties to the contract. The Texas Ethics Commission will post the completed Form 1295 to its website within seven business days after receiving notice from the County.

2.7 PROPOSAL AFFIDAVIT

The Respondent attests to abiding by Texas Government Code Chapter 2270, Subtitle F, Title 10 stating that they neither currently boycott Israel, nor will the boycott Israel during the term of the contract. Furthermore, the Respondent certifies and agrees to furnish any and/or all goods and/or services upon which prices are extended at the price Proposal, and upon the conditions contained in the RFP. Additionally, the Respondent certifies that the Proposal has not been prepared in collusion with any other Proposer or other person or persons engaged in the same line of business prior to the official opening of this Proposal. Further, Proposer certifies that the he or she is not now, nor has been for the past six months, directly or indirectly concerned in any pool or agreement or combination, to control the price services/commodities Proposal on, or to influence any person or persons to submit a Proposal or not submit a Proposal thereon. **Each Respondent must provide a Proposal Affidavit with their Proposal Package. Package may be deemed incomplete without this form.**

2.8 PROPOSAL SUBMITTAL DEADLINE

The Proposal is due no later than the submittal date and time set forth in the Public Announcement and General Information listed in this RFP package. Contents of each Proposal shall be submitted in accordance with this RFP.

2.9 ETHICS

The Respondent shall not accept or offer gifts or anything of value, nor enter into any business

arrangement with any employee, official or agent of the County.

2.10 DELIVERY OF PROPOSALS

The County uses BidSync to distribute and receive bids and Proposals. It is preferred that Proposals be submitted electronically through BidSync; however, Respondents can submit a hard copy.

Refer to www.bidsync.com for further information on how to submit electronically.

If mailed or delivered in person, Proposal and Proposal Addenda are to be delivered in sealed envelope on or before the submittal deadline, as noted in the Public Announcement and General Information listed in this RFP package, to:

Williamson County Purchasing Department
Attn: **Proposal Name and Number**
901 South Austin Avenue
Georgetown, Texas 78626

Also, all Respondents should list their Name and Address, and the Date of the Proposal opening on the outside of the box or envelope and note "Sealed Proposal Enclosed." Williamson County will not accept any Proposals after the submittal deadline, and shall return such Proposals unopened to the Respondent. The County will not accept any responsibility for Proposals being delivered by third party carriers.

Proposals will be opened publicly; however, in a manner to avoid public disclosure of contents, only names of Respondents will be read aloud: no pricing will be announced at the opening.

SECTION 3 - INSTRUCTIONS AND GENERAL REQUIREMENTS

3.1 INSTRUCTIONS

Read this document carefully, and follow all instructions and requirements. All Respondents are responsible for fulfilling all requirements and specifications. Be sure to have a clear understanding of this RFP.

General requirements apply to all advertised RFPs; however, these may be superseded, in whole or in part, by the proposal specifications, Addenda and modifications issued as a part of this RFP. Be sure your Proposal package is complete.

3.2 AMBIGUITY, CONFLICT, OR OTHER ERRORS IN THIS RFP

If a Respondent discovers any ambiguity, conflict, discrepancy, omission or other error in this RFP, the Respondent shall immediately notify the County Purchasing Department of such error in writing and request modification or clarification of the document.

Modifications will be made by issuing Addenda. If the Respondent fails to notify the County prior to the date and time fixed for submission of Proposals of an error or ambiguity in the RFP known to the Respondent, or an error or ambiguity that reasonably should have been known to the Respondent, then the Respondent shall be deemed to have waived the error or ambiguity or its later resolution.

The County may also modify the RFP, no later than forty-eight (48) hours prior to the date and time fixed for submission of Proposals, by issuance of an Addendum. All Addenda will be numbered consecutively, beginning with one (1).

3.3 NOTIFICATION OF MOST CURRENT ADDRESS

All Respondents in receipt of this RFP shall notify the Williamson County Purchasing Department of any address changes, contact person changes, and/or telephone number changes no later than forty-eight (48) hours prior to the date and time fixed for submission of Proposals.

3.4 SIGNATURE OF RESPONDENT

A Transmittal Letter, which shall be considered an integral part of the Proposal as stated in Section 2.3, Transmittal Letter, shall be signed by an individual who is authorized to bind the Respondent contractually.

A. If the Respondent is a Corporation or Limited Liability Company, the legal name of the Corporation or Limited Liability Company shall be provided together with the signature of the officer or officers authorized to sign on behalf of such entity.

B. If the Respondent is a General Partnership, the true name of the firm shall be provided with the signature of each partner authorized to sign.

C. If the Respondent is a Limited Partnership, the name of the Limited Partner's General Partner shall be provided with the signature of the officer authorized to sign on behalf of the General Partner.

D. If the Respondent is a Sole Proprietor(s) (individual), each Sole Proprietor(s) shall sign.

E. If signature is by an agent, other than the Sole Proprietor(s) or an officer of a Corporation, Limited

Liability Company, General Partner or a member of a General Partnership, a power of attorney equivalent document must be submitted to the Williamson County Purchasing Department.

3.5 ASSUMED BUSINESS NAME

If the Respondent operates business under an Assumed Business Name, the Respondent must have file with the Williamson County Clerk a current Assumed Name Certificate and provide a file marked copy of same prior to contract award.

3.6 ECONOMY OF PRESENTATION

Proposals should not contain promotional or display materials, except as they may directly answer in whole or in part questions contained in the RFP. Such exhibits shall be clearly marked with the applicable reference number of the question in the RFP. Proposals must address the technical requirements as specified in the RFP. All questions posed by the RFP must be answered concisely and clearly. Proposals that do not address each criterion may be, at the sole discretion of the County, rejected and not considered.

3.7 REJECTION OR ACCEPTANCE

It is understood that the Commissioners Court of Williamson county, Texas, reserves the right to accept or reject any and/or all proposals for any or all materials and/or services covered in the RFP, and to waive informalities or defects in the proposal or to accept such proposal it shall deem to be in the best interest of Williamson County.

3.8 PROPOSAL OBLIGATION

The contents of the RFP, Proposal, and any clarification thereof submitted by the Successful Respondent shall become part of the contractual obligation and incorporated by reference into the Contract and any Ensuing Agreement(s).

3.9 COMPLIANCE WITH RFP SPECIFICATIONS

It is intended that this RFP describe the requirements and the Proposal format in sufficient detail to secure comparable Proposal. Failure to comply with all provisions of the RFP may, at the sole discretion of the County, result in disqualification.

3.10 EVALUATION

The County reserves the right to use all pertinent information (also learned from sources other than disclosed in the RFP process) that might affect the County's judgment as to the appropriateness of award to the best evaluated Respondent. This information may be appended to the Proposal evaluation process results. Information on a Respondent from reliable sources, and not within the Respondent Proposal, may also be noted and made part of the evaluation file. The County shall have sole discretion for determining the reliability of the source. The County reserves the right to conduct written and/or oral discussions/interviews after the Proposal opening. The purpose of such discussions/interviews is to provide clarification and/or additional information to make an award that is in the best interest of the County.

3.11 WITHDRAWAL OF PROPOSAL

The Respondent may withdraw its Proposal by submitting a written request with the company letterhead and the signature of an authorized individual, as described in Section 3.4, Signature of Respondent, to the Williamson County Purchasing Department any time prior to the submission deadline.

The Respondent may submit a new Proposal prior to the deadline. Alterations of the Proposal in any

manner will not be considered if submitted after the deadline. Withdrawal of a Proposal after the deadline will be subject to written approval of the Williamson County Purchasing Agent.

3.12 RESPONSIBILITY

It is expected that a Respondent will be able to affirmatively demonstrate responsibility. A prospective Respondent should be able to meet the following requirements:

A. Have adequate financial resources, or the ability to obtain such resources as required;
B. Be able to comply with the required or proposed delivery schedule;
C. Have a satisfactory record of performance that can be determined thru references provided; and
D. Be otherwise qualified and eligible to receive an award.

The County may request representation and other information sufficient to determine the Respondent ability to meet these minimum standards listed above.

3.13 PURCHASE ORDERS

If required by the Williamson County Purchasing Department, a purchase order(s) may be generated to the Successful Respondent for goods and/or services. If a purchase order is issued, the purchase order number must appear on all itemized invoices and/or requests for payment.

3.14 SILENCE OF SPECIFICATIONS

The apparent silence of any RFP specifications as to any detail or to the apparent omission from it of a detailed description concerning any point, shall be regarded as meaning that only the best practices are to prevail. All interpretations of these specifications shall be made on the basis of this statement.

3.15 REFERENCES

Respondents shall furnish a list of contracts where similar responsibilities and goods and/or services have been required and/or performed for the past five (5) years, to include names, titles, phone numbers and email addresses of reference contacts, contract numbers and dates of performance.

Also, Respondents shall include a list of any contracts that have been cancelled or terminated within the last five (5) years, along with an explanation of the cancellation and the names, email address and phone number of a reference person with that institution.

The County may contact some or all of the references in order to determine the Respondent performance record on work similar to that described in this RFP. The County reserves the right to contact references other than those provided in the response and to use the information gained from them in the evaluation process.

References should be provided in accordance with this RFP. Proposal may not be deemed complete without the inclusion of requested references.

SECTION 4 - TERMS AND CONDITIONS

4.1 VENUE AND GOVERNING LAW

The Respondent hereby agrees and acknowledges that venue and jurisdiction of any suit, right, or cause of action arising out of or in connection with this RFP, the Contract and any Ensuing Agreement(s), shall lie exclusively in either Williamson County, Texas or in the Austin Division of the Western Federal District of Texas, and the parties hereto expressly consent and submit to such jurisdiction. Furthermore, except to the extent that this RFP, the Contract and any Ensuing Agreement(s) is governed by the laws of the United States, this RFP, the Contract and any Ensuing Agreement(s) shall be governed by and construed in accordance with the laws of the State of Texas, excluding, however, its choice of law rules.

4.2 INCORPORATION BY REFERENCE AND PRECEDENCE

A. The Contract shall be derived from the RFP and its Addenda (if applicable), and the Respondent Proposal. In the event of a dispute under the Contract, applicable documents will be referred to for the purpose of clarification or for additional detail in the following order of precedence:

   1. The RFP and its Addenda (if applicable); and

   2. The Respondent's Proposal.

B. In the event the County requires that an Ensuing Agreement be executed following award and a dispute arises between the terms and conditions of the Ensuing Agreement, the RFP and its Addenda (if applicable), and the Respondent's Proposal, applicable documents will be referred to for the purpose of clarification or for additional detail in the following order of precedence:

   1. The terms and conditions of the Ensuing Agreement;

   2. The RFP and its Addenda; and

   3. The Respondent's Proposal.

4.3 OWNERSHIP OF PROPOSAL

Each Proposal shall become the property of the County upon submittal and will not be returned to Respondents unless received after the submittal deadline.

4.4 DISQUALIFICATION OF RESPONDENT

Upon signing and submittal of the Proposal, a Respondent offering to sell supplies, materials, services, or equipment to the County, certifies that the Respondent has not violated the antitrust laws of the State of Texas codified in Business & Commerce Code, Section 15.01, or the Federal Antitrust Laws, and has not communicated directly or indirectly the offer made to any competitor or any other person engaged such line of business. Any or all Proposals may be rejected if the County believes that collusion exists among the Respondents.

4.5 FUNDING

The County intends to budget and make sufficient funds available and authorize funds for expenditure to finance the costs of the Contract. All Respondents understand and agree that the County's payment of

amounts under the Contract shall be contingent on the County receiving appropriations or other expenditure authority sufficient to allow the County, in the exercise of reasonable administrative discretion, to make payments under this Contract.

4.6 ASSIGNMENT, SUCCESSORS AND ASSIGNS

The Successful Respondent may not assign, sell, or otherwise transfer the Contract or any other rights or interests obtained under the Contract without written permission of the Williamson County the Commissioners Court. The Contract and any Ensuing Agreement(s) shall be binding upon and inure to the benefit of the contracting parties hereto and their respective successors and permitted assigns.

4.7 IMPLIED REQUIREMENTS

Products or services not specifically described or required in the RFP, but are necessary to provide the functional capabilities described by the Respondent, shall be implied and deemed to be included in the Proposal.

4.8 TERMINATION

A. **Termination for Cause:** The County reserves the right to terminate the Contract and/or any Ensuing Agreement(s) for default if the Successful Respondent breaches any of the Proposal specifications, terms and conditions, including warranties of the Respondent, if any, or if the Successful Respondent becomes insolvent or commits acts of bankruptcy. Such right of termination is in addition to and not in lieu of any other remedies the County may have at law or equity or as may otherwise be provided hereunder. Default may be construed as, but not limited to, failure to deliver the proper goods and/or services within the proper amount of time, and/or to properly perform any and all other requirements to the County's satisfaction, and/or to meet all other obligations and requirements.

B. **Termination for Convenience:** The County may terminate the Contract and/or any Ensuing Agreement(s) for convenience and without cause or further liability, upon no less than thirty (30) calendar days written notice to the Successful Respondent. The County reserves the right to extend this period if it is in the best interest of the County. In the event the County exercises its right to terminate without cause, it is understood and agreed that only the amounts due to the Successful Respondent for goods, commodities and/or services provided, and expenses incurred to and including the date of termination, will be due and payable. No penalty will be assessed for the County's termination for convenience.

4.9 NON-PERFORMANCE

It is the objective of the County to obtain complete and satisfactory performance of the requirements set forth herein. In addition to any other remedies available at law, in equity or that may be set out herein, failure to perform may result in a deduction of payment equal to the amount of the goods and/or services that were not provided and/or performed to the County's satisfaction.

In the event of such non-performance, the County shall have the right, but shall not be obligated, to complete the services itself or by others and/or purchase the goods from other sources. If the County elects to acquire the goods or perform the services itself or by others, pursuant to the foregoing, the Successful Respondent shall reimburse the County, within ten (10) calendar days of demand, for all costs incurred by the County (including, without limitation, applicable, general, and administrative expenses, and field overhead, and the cost of necessary equipment, materials, and field labor) in correcting the nonperformance which the Successful Respondent fails to meet pursuant to the requirements set out herein. In the event the Successful Respondent refuses to reimburse the County as set out in this provision, the County shall have the right to deduct such reimbursement amounts from any amounts that may be then owing or that may become owing in the future to the Successful Respondent.

4.10 PROPRIETARY INFORMATION AND THE TEXAS PUBLIC INFORMATION ACT

All material submitted to the County shall become public property and subject to the Texas Public Information Act upon receipt. If a Respondent does not desire proprietary information in the Proposal to be disclosed, each page must be clearly identified and marked proprietary at time of submittal or, more preferably, all proprietary information may be placed in a folder or appendix and be clearly identified and marked as being proprietary. Failure to clearly identify and mark information as being proprietary as set forth under this provision will result in all unmarked information being deemed non-proprietary and available to the public. For all information that has not been clearly identified and marked as proprietary by the Respondent, the County may choose to place such information on the County's website and/or a similar public database without obtaining any type of prior consent from the Respondent.

The County will, to the extent allowed by law, endeavor to protect from public disclosure the information that has been identified and marked as proprietary. The final decision as to what information must be disclosed, however, lies with the Texas Attorney General.

To the extent, if any, that any provision in this RFP or in the Respondent's Proposal is in conflict with Texas Government Code, Chapter 552, as amended (the "Public Information Act"), the same shall be of no force or effect. Furthermore, it is expressly understood, and agreed, that the County, and its officers and employees, may request advice, decisions and opinions of the Attorney General of the State of Texas in regard to the application of the Public Information Act to any items or data furnished to the County as to whether or not the same are available to the public. It is further understood that that the County, and its officers and employees, shall have the right to rely on the advice, decisions and opinions of the Attorney General, and that the County, its officers and employees shall have no liability or obligation to any party hereto for the disclosure to the public, or to any person or persons, of any items or data furnished to the County by a party hereto, in reliance of any advice, decision or opinion of the Attorney General of the State of Texas.

4.11 RIGHT TO AUDIT

The Successful Respondent agrees that the County or its duly authorized representatives shall, until the expiration of three (3) years after termination or expiration of the services to be performed, have access to and the right to examine and photocopy any and all books, documents, papers and records of the Successful Respondent, which are directly pertinent to the services to be performed or goods to delivered for the purposes of making audits, examinations, excerpts and transcriptions. The Successful Respondent agrees that the County shall have access during normal working hours to all necessary facilities and shall be provided adequate and appropriate work space in order to conduct audits in compliance with the provisions of this section. The County shall give the Successful Respondent reasonable advance notice of intended audits.

4.12 TESTING AND INSPECTIONS

The County reserves the right to inspect and test equipment, supplies, materials and goods for quality and compliance with this RFP, and ability to meet the needs of the user. Demonstration units must be available for review. Should the goods or services fail to meet requirements and/or be unavailable for evaluation, the County can deem the Respondent to be in breach and terminate the Contract and/or any Ensuing Agreement(s).

4.13 PROPOSAL PREPARATION COSTS

The cost of developing Proposals is the sole responsibility of the Respondents and shall not be charged to the County. There is no expressed or implied obligation for the County to reimburse the Respondents for any expense incurred in preparing a Proposal in response to this RFP and the County will not reimburse the Respondents for such expenses.

4.14 INDEMNIFICATION

The Successful Respondent shall indemnify, defend and save harmless, the County, its officials, employees, agents and agent's employees from, and against, all claims, liability, and expenses including reasonable attorneys' fees, arising from activities of the Respondent, its agents, servants or employees, performed hereunder that result from the negligent act, error, or omission of the Respondent or any of the Respondent's agents, servants or employees, as well as all claims of loss or damage to the Respondent's and the County's property, equipment, and/or supplies.

Furthermore, the County, its officials, employees, agents and agents' employees shall not be liable for damages to the Successful Respondent arising from any act of any third party, including, but not limited to, theft. The Successful Respondent further agrees to indemnify, defend and save harmless, the County from its officials, employee, agents and agents' employees against all claims of whatever nature arising from any accident, injury, or damage whatsoever, caused to any person, or the property of any person, occurring in relation to the Successful Respondent's performance of any services requested hereunder during the term of the Contract and/or any Ensuing Agreement(s).

The Successful Respondent shall timely report all claims, demands, suits, actions, proceedings, liens or judgements to the County and shall, upon the receipt of any claim, demand, suit, action, proceeding, lien or judgement, not later than the fifteenth (15^{th}) day of each month; provide the County with a written report on each such matter, setting forth the status of each matter, the schedule or planned proceedings with respect to each matter and the cooperation or assistance, if any, of the County required by the Successful Respondent in the defense of each matter. The Successful Respondent's duty to defend, indemnify and hold the County harmless shall be absolute. It shall not abate or end by reason of the expiration or termination of the Contract and/or any Ensuing Agreement(s), unless otherwise agreed by the County in writing. The provisions of this section shall survive the termination of the Contract and shall remain in full force and effect with respect to all such matters no matter when they arise.

In the event of any dispute between the parties, as to whether a claim, demand, suit, action, proceeding, lien or judgement, that appears to have been caused by or appears to have arisen out of or in connection with acts or omissions of the County, the Respondent shall nevertheless fully defend such claim, demand, suit or action, proceeding, lien or judgement, until and unless there is a determination by a court of competent jurisdiction that the acts and omissions of the Respondent are not an issue in the matter.

The Successful Respondent's indemnification shall cover, and the Successful Respondent agrees to, indemnify the County, in the event the County is found to have been negligent for having selected the Successful Respondent to perform the work described in this request. The provision by the Successful Respondent of insurance shall not limit the liability of the Successful Respondent under the Contract and/or any Ensuing Agreement(s).

4.15 WAIVER OF SUBROGATION

The Successful Respondent and the Successful Respondent's insurance carrier waive any and all rights whatsoever with regard to subrogation against the County as an indirect party to any suit arising out of personal or property damages resulting from the Respondent's performance under this Contract and any Ensuing Agreement(s).

4.16 RELATIONSHIP OF THE PARTIES

The Successful Respondent shall be an independent contractor and shall assume all of the rights, obligations, liabilities, applicable to it as such independent contractor hereunder and any provisions herein which may appear to give the County the right to direct the Successful Respondent as to details of doing work herein covered, or to exercise a measure of control over the work, shall be deemed to mean that the Successful Respondent shall follow the desires of the County in the results of the work only. The County shall not retain or have the right to control the Successful Respondent's means, methods or

details pertaining to the Successful Respondent's performance of the work. The County and the Successful Respondent hereby agree and declare that the Successful Respondent is an independent contractor and as such meets the qualifications of an "Independent Contractor" under Texas Workers Compensation Act, Texas Labor Code, Section 406.141, that the Successful Respondent is not an employee of the County, and that the Successful Respondent and its employees, agents and subcontractors shall not be entitled to workers compensation coverage or any other type of insurance coverage held by the County.

4.17 SOLE PROVIDER

The Successful Respondent agrees and acknowledges that it shall not be considered a sole provider of the goods and/or services described herein and that the County may contract with other providers of such goods and/or services if the County deems, at its sole discretion, that multiple providers of the same goods and/or services will serve the best interest of the County.

4.18 FORCE MAJEURE

If the party obligated to perform is prevented from performance by an act of war, order of legal authority, act of God, or other unavoidable cause not attributable to the fault or negligence of said party, the other party shall grant such party relief from the performance. The burden of proof for the need of such relief shall rest upon the party obligated to perform. To obtain release based on force majeure, the party obligated to perform shall file a written request with the other party.

4.19 SEVERABILITY

If any provision of this RFP, the Contract or any Ensuing Agreement(s) shall be held invalid or unenforceable by any court of competent jurisdiction, such holding shall not invalidate or render unenforceable any other provision thereof, but rather the entire RFP, Contract or any Ensuing Agreement (s) will be construed as if not containing the particular invalid or unenforceable provision or provisions, and the rights and obligation of the parties shall be construed and enforced in accordance therewith. The parties acknowledge that if any provision of this RFP, the Contract or any Ensuing Agreement(s) is determined to be invalid or unenforceable, it is the desire and intention of each that such provision be reformed and construed in such a manner that it will, to the maximum extent practicable, give effect to the intent of this RFP, the Contract or any Ensuing Agreement(s) and be deemed to be validated and enforceable.

4.20 EQUAL OPPORTUNITY

Neither party shall discriminate against any employee or applicant for employment because of race, color, sex, religion or national origin.

4.21 NOTICE

Any notice to be given shall be in writing and may be distributed by personal delivery, or by registered or certified mail, return receipt requested, addressed to the proper party, at the following address:

The County: Williamson County Purchasing Department
Attn: Purchasing Agent
901 South Austin Avenue
Georgetown, Texas 78626

The Respondent: Address set out in Respondent's Transmittal Letter

Notices given in accordance with this provision shall be effective upon (1) receipt by the party to which notice is given, or (2) on the third (3rd) calendar day following mailing, whichever occurs first.

4.22 SALES AND USE TAX EXEMPTION

The County is a body, corporate and politic, under the laws of the State of Texas and claims exemption from sales and use taxes under Texas Tax Code, Section 151.309, as amended, and the services and/or goods subject hereof are being secured for use by the County.

4.23 COMPLIANCE WITH LAWS

The County and the Successful Respondent shall comply with all federal, state, and local laws, statutes, ordinances, rules and regulations, and the orders and decrees of any courts or administrative bodies or tribunals in any matter affecting the performance of the Contract and any Ensuing Agreement(s), including, without limitation, Workers' Compensation laws, salary and wage statutes and regulations, licensing laws and regulations. When required, the Successful Respondent shall furnish the County with certification of compliance with said laws, statues, ordinances, rules, regulations, orders, and decrees above specified.

4.24 INCORPORATION OF EXHIBITS, APPENDICES AND ATTACHMENTS

All of the Exhibits, Appendices and Attachments referred to herein are incorporated by reference as if set forth verbatim herein. Any conflicting terms in the Contract documents will be resolved at the sole discretion of the Commissioners Court.

4.25 NO WAIVER OF IMMUNITIES

Nothing herein shall be deemed to waive, modify or amend any legal defense available at law or in equity to the County, its past or present officers, employees, or agents, nor to create any legal rights or claim on behalf of any third party. The County does not waive, modify, or alter to any extent whatsoever the availability of the defense of governmental immunity under the laws of the State of Texas and of the United States.

4.26 NO WAIVER

The failure or delay of any party to enforce at any time or any period of time any of the provisions of this RFP, the Contract or any Ensuing Agreement(s) shall not constitute a present or future waiver of such provisions nor the right of either party to enforce each and every provision. Furthermore, no term or provision hereof shall be deemed waived and no breach excused unless such waiver or consent shall be in writing and signed by the party claimed to have waived or consented. Any consent by any party to, or waiver of, a breach by the other, whether expressed or implied, shall not constitute a consent to, waiver of or excuse for any other, different or subsequent breach.

4.27 CURRENT REVENUES

The obligations of the parties under the Contract and any Ensuing Agreement(s) do not constitute a general obligation or indebtedness of the County for which the County is obligated to levy, pledge, or collect any of taxation. It is understood and agreed that the County shall have the right to terminate the Contract and any Ensuing Agreement(s) at the end of any the County fiscal year if the governing body of the County does not appropriate sufficient funds as determined by the County's budget for the fiscal year in question. The County may effect such termination by giving written notice of termination to t Successful Respondent at the end of its then-current fiscal year.

4.28 BINDING EFFECT

This Contract and any Ensuing Agreement(s) shall be binding upon and inure to the benefit of the parties and their respective permitted assigns and successors.

4.29 ASSIGNMENT

The Successful Respondent's interest and duties hereunder may not be assigned or delegated to a third party without the express written consent of the County.

4.30 SAFETY

The Successful Respondent is responsible for initiating, maintaining, and supervising all safety precautions and programs in connection with any services to be provided hereunder. The safety program shall comply with all applicable requirements of the current federal Occupational Safety and Health Act and all other applicable federal, state and local laws and regulations.

4.31 GENERAL OBLIGATIONS AND RELIANCE

The Successful Respondent shall perform all services and/or provide all goods, as well as those reasonably inferable and necessary for completion and provision of services and/or goods required hereunder. The Successful Respondent shall keep the County informed of the progress and quality the services. The Successful Respondent agrees and acknowledges that the County is relying on the Successful Respondent's represented expertise and ability to provide the goods and/or services described herein. The Successful Respondent agrees to use its best efforts, skill, judgment, and abilities to perform its obligations in accordance with the highest standards used in the profession and to further the interests of the County in accordance with the County's requirements and procedures. The Successful Respondent's duties, as set forth herein, shall at no time be in any way diminished by reason of any approval by the County, nor shall the Successful Respondent be released from any liability reason of such approval by the County, it being understood that the County at all times is ultimately relying upon the Successful Respondent's skill and knowledge in performing the services and providing any goods required hereunder.

4.32 CONTRACTUAL DEVELOPMENT

The Commissioners Court may award the Contract on the basis of the initial Proposals received, without any further or additional discussions. Therefore, each initial Proposal should contain the Respondent best terms and offer. The contents of the RFP and the selected Proposal will become an integral part of the Contract, but may be modified, at Williamson County's sole discretion, by provisions of an Ensuing Agreement. Therefore, the Respondent must agree to inclusion in an Ensuing Agreement of t Proposal specifications, terms and conditions of this RFP. Williamson County may, at its discretion, opt to conduct further discussions with responsible offerors and request the highest ranked firm's Best and Final Offer (BAFO).

4.33 ENTIRE AGREEMENT

The Contract and any Ensuing Agreement(s) shall supersede all prior Agreements, written or oral between the Successful Respondent and the County and shall constitute the entire Agreement and understanding between the parties with respect to the services and/or goods to be provided. Each of the provisions herein shall be binding upon the parties and may not be waived, modified, amended or altered, except by writing signed by the Successful Respondent and the County.

4.34 SURVIVABILITY

All applicable agreements that were entered into between the Successful Respondent and the County, under the terms and conditions of the Contract and/or any Ensuing Agreement(s), shall survive the expiration or termination thereof for ninety (90) days unless a new contract has been awarded.

The County may exercise, by written notice to the Successful Respondent no later than ten (10) calendar days of the Contract expiration, this clause for emergency cases only.

4.35 PAYMENT

The County's payment for goods and services shall be governed by the Texas Government Code, Chapter 2251. An invoice shall be deemed overdue the thirty-first (31st) day after the later of the following:

A. The date the County receives the goods under the Contract;
B. The date the performance of the service under the Contract is completed; or
C. The date the Williamson County Auditor receives an invoice for the goods or services.

Interest charges for any overdue payments shall be paid by the County in accordance with Texas Government Code, Section 2251.025. More specifically, the rate of interest that shall accrue on a late payment is the rate in effect on September 1 of the County's fiscal year in which the payment becomes due. The said rate in effect on September 1 shall be equal to the sum of one (1) percent and the prime rate published in the Wall Street Journal on the first (1st) day of July of the preceding fiscal year that does not fall on a Saturday or Sunday.

In the event that an error appears in an invoice submitted by the Successful Respondent, the County shall notify the Successful Respondent of the error not later than the twenty-first (21st) day after the date the County receives the invoice. If the error is resolved in favor of the Successful Respondent, the Successful Respondent shall be entitled to receive interest on the unpaid balance of the invoice submitted by the Successful Respondent beginning on the date that the payment for the invoice became overdue. If the error is resolved in favor of the County, the Successful Respondent shall submit a corrected invoice that must be paid in accordance within the time set forth above. The unpaid balance accrues interest as provided by the Texas Government Code, Chapter 2251, if the corrected invoice is not paid by the appropriate date.

As a minimum, invoices shall include:

A. Name, address, and telephone number of the Successful Respondent and similar information in the event the payment is to be made to a different address.

B. The County Contract, Purchase Order.

C. Identification of items or service as outlined in the Contract.

D. Quantity or quantities, applicable unit prices, total prices and total amount.

E. Any additional payment information which may be called for by the Contract.

Payment inquiries should be directed to the following address:

Williamson County Auditor's Office, Accounts Payable Department
Email: accountspayable@wilco.org
Phone: 512-943-1500

4.36 CONTRACTUAL FORMATION AND ENSUING AGREEMENT

The RFP and the Respondent's Proposal, when properly accepted by the Commissioners Court, shall constitute a Contract equally binding between the Successful Respondent and the County. The Successful Respondent may be required by Williamson County to sign an additional Agreement containing terms necessary to ensure compliance with the RFP and Respondent's Proposal.

4.37 LEGAL LIABILITY INFORMATION

The Successful Respondent shall disclose all legal liability information by listing any pending litigation anticipated litigation that your firm is involved in including, but not limited to, potential or actual legal matters with private parties and any local, state, federal or international governmental entities. The County reserves the right to consider legal liability information in the recommendation of any proposed contract to the Commissioners Court.

4.38 CONFIDENTIALITY

Respondent expressly agrees that it will not use any direct or incidental confidential information that may be obtained while working in a governmental setting for its own benefit, and agrees that it will not access unauthorized areas or confidential information and it will not disclose any information to unauthorized third parties, and will take care to guard the security of the information at all times.

4.39 INCLEMENT WEATHER

In case of inclement weather or any other unforeseen event causing the County to close for business on the date of a Proposal submission deadline, the Proposal closing will automatically be postponed until the next business day the County is open. If inclement weather conditions or any other unforeseen event causes delays in carrier service operations, the County may issue an Addendum to all known Respondents interested in the project to extend the deadline. It will be the responsibility of the Respondent to notify the County of their interest in the project if these conditions are impacting their ability to turn in a submission within the stated deadline. The County reserves the right to make the final judgement call to extend any deadline.

4.40 AIR QUALITY

In determining the overall best Proposal, the County may, to the extent applicable, exercise the option granted to local governments under the Texas Local Government Code, Section 271.907.

This option allows the County to evaluate Proposals and give preference to goods and/or services of Respondent that demonstrates that the Respondent meets or exceeds any and all state or federal environmental standards, including voluntary standards, relating to air quality. If the Proposal being submitted will have an effect on air quality for the County (as it relates to any state, federal, or voluntary air quality standard), then the Respondent is encouraged to provide information in narrative indicating the anticipated air quality impact. All Respondents are expected to meet all mandated state and federal air quality standards.

4.41 COOPERATIVE PURCHASING PROGRAM

During the term of the Contract resulting from this RFP, the County would like to afford the same prices, terms and conditions to other political subdivisions or public entities. Another entity's participation in the Contract resulting from this RFP is subject to a properly authorized Purchasing Cooperative Inter-local Agreement (ILA) with the County. Any liability created by purchase orders issued against the Contract shall be the sole responsibility of the governmental agency placing the order.

4.42 CONFIDENTIALITY

The Respondent expressly agrees that it will not use any direct or incidental confidential information that may be obtained while working in a governmental setting for its own benefit, and agrees that it will not access unauthorized areas or confidential information and it will not disclose any information to unauthorized third parties, and will take care to guard the security of the information at all times.

PROPOSAL AFFIDAVIT

This form must be completed, signed, notarized and returned with Proposal package

The undersigned attests that the company named below, under the provisions of Subtitle F, Title 10, Texas Government Code Chapter 2270:

1. Does not boycott Israel currently; and
2. Will not boycott Israel during the term of the contract.

Pursuant to Section 2270.001, Texas Government Code:

1. "Boycott Israel" means refusing to deal with, terminating business activities with, or otherwise taking any action that is intended to penalize, inflict economic harm on, or limit commercial relations specifically with Israel, or with a person or entity doing business in Israel or in an Israeli-controlled territory, but does not include an action made for ordinary business purposes; and
2. "Company" means a for-profit sole proprietorship, organization, association, corporation, partnership, joint venture, limited partnership, or any limited liability company, including a wholly owned subsidiary, majority-owned subsidiary, parent company or affiliate of those entities or business associations that exist to make a profit

The undersigned certifies that the RFP and the Respondent's Proposal have been carefully reviewed and are submitted as correct and final. Respondent further certifies and agrees to furnish any and/or all goods and/or services upon which prices are extended at the price Proposal, and upon the conditions contained in the RFP.

I hereby certify that the foregoing Proposal has not been prepared in collusion with any other Respondent or other person or persons engaged in the same line of business prior to the official opening of this Proposal. Further, I certify that the Respondent is not now, nor has been for the past six (6) months, directly or indirectly concerned in any pool or agreement or combination, to control the price of services/commodities Proposal on, or to influence any person or persons to submit a Proposal or not to submit a Proposal thereon."

Name of Respondent:	
Address of Respondent:	
Email:	
Telephone:	
Printed Name of Person Submitting Affidavit:	
Signature of Person Submitting Affidavit:	

Cooperative Purchasing Program

Check one of the following options below. A non-affirmative Proposal will in no way have a negative impact on the County's evaluation of the Proposal.

☐	I will offer the quoted prices to all authorized entities during the term of the County's Contract.
☐	I will not offer the quoted prices to all authorized entities.

If no box is checked, the Respondent agrees to make best efforts in good faith to offer the quoted prices to all authorized entities.

BEFORE ME, the undersigned authority, a Notary Public, personally appeared _____ (*Name of Signer*), who after being by me duly sworn, did depose and say: "I, _____, (*Name of Signer*) am a duly authorized officer of/agent for _____ (*Name of Respondent*) and have been duly authorized to execute the foregoing on behalf of the said _____ (*Name of Respondent*).

SUBSCRIBED AND SWORN to before me by the above-named _____

on this the _____ day of _____, 20_____.

_____

Notary Public in and for

The State of _____

The County of _____

SIGNATURE AND NOTARY NOT REQUIRED IF COMPLETING IN BIDSYNC ELECTRONICALLY.

CONFLICT OF INTEREST QUESTIONNAIRE

For vendor doing business with local governmental entity

FORM CIQ

This questionnaire reflects changes made to the law by H.B. 23, 84th Leg., Regular Session.

This questionnaire is being filed in accordance with Chapter 176, Local Government Code, by a vendor who has a business relationship as defined by Section 176.001(1-a) with a local governmental entity and the vendor meets requirements under Section 176.006(a).

By law this questionnaire must be filed with the records administrator of the local governmental entity not later than the 7th business day after the date the vendor becomes aware of facts that require the statement to be filed. *See* Section 176.006(a-1), Local Government Code.

A vendor commits an offense if the vendor knowingly violates Section 176.006, Local Government Code. An offense under this section is a misdemeanor.

OFFICE USE ONLY

Date Received

1 **Name of vendor who has a business relationship with local governmental entity.**

2 ☐ **Check this box if you are filing an update to a previously filed questionnaire.** (The law requires that you file an updated completed questionnaire with the appropriate filing authority not later than the 7th business day after the date on which you became aware that the originally filed questionnaire was incomplete or inaccurate.)

3 **Name of local government officer about whom the information is being disclosed.**

Name of Officer

4 Describe each employment or other business relationship with the local government officer, or a family member of the officer, as described by Section 176.003(a)(2)(A). Also describe any family relationship with the local government officer. Complete subparts A and B for each employment or business relationship described. Attach additional pages to this Form CIQ as necessary.

A. Is the local government officer or a family member of the officer receiving or likely to receive taxable income,other than investment income, from the vendor?

☐ Yes ☐ No

B.Is the vendor receiving or likely to receive taxable income, other than investment income, from or at the directionof the local government officer or a family member of the officer AND the taxable income is not received from the local governmental entity?

☐ Yes ☐ No

5 **Describe each employment or business relationship that the vendor named in Section 1 maintains with a corporation or other business entity with respect to which the local government officer serves as an officer or director, or holds an ownership interest of one percent or more.**

6 ☐ Check this box if the vendor has given the local government officer or a family member of the officer one or more gifts as described in Section 176.003(a)(2)(B), excluding gifts described in Section 176.003(a-1).

7 Signature is not required if completing in BIDSYNC electronically;

Signature of vendor doing business with the governmental entity

Date

Form provided by Texas Ethics Commission www.ethics.state.tx.us Revised 11/30/2015

CONFLICT OF INTEREST QUESTIONNAIRE

For vendor doing business with local governmental entity

A complete copy of Chapter 176 of the Local Government Code may be found at http://www.statutes.legis.state.tx.us/ Docs/LG/htm/LG.176.htm. For easy reference, below are some of the sections cited on this form.

Local Government Code § 176.001(1-a): "Business relationship" means a connection between two or more parties based on commercial activity of one of the parties. The term does not include a connection based on:

(A) a transaction that is subject to rate or fee regulation by a federal, state, or local governmental entity or anagency of a federal, state, or local governmental entity;

(B) a transaction conducted at a price and subject to terms available to the public; or

(C) a purchase or lease of goods or services from a person that is chartered by a state or federal agency andthat is subject to regular examination by, and reporting to, that agency.

Local Government Code § 176.003(a)(2)(A) and (B):

(a) A local government officer shall file a conflicts disclosure statement with respect to a vendor if:

***

(2) the vendor:

(A) has an employment or other business relationship with the local government officer or afamily member of the officer that results in the officer or family member receiving taxable income, other than investment income, that exceeds $2,500 during the 12-month period preceding the date that the officer becomes aware that

(i) a contract between the local governmental entity and vendor has been executed;or

(ii) the local governmental entity is considering entering into a contract with thevendor;

(B) has given to the local government officer or a family member of the officer one or more giftsthat have an aggregate value of more than $100 in the 12-month period preceding the date the officer becomes aware that:

(i) a contract between the local governmental entity and vendor has been executed;

or (ii) the local governmental entity is considering entering into a contract with the vendor.

Local Government Code § 176.006(a) and (a-1)

(a) A vendor shall file a completed conflict of interest questionnaire if the vendor has a business relationship with a local governmental entity and:

(1) has an employment or other business relationship with a local government officer of that localgovernmental entity, or a family member of the officer, described by Section 176.003(a)(2)(A);

(2) has given a local government officer of that local governmental entity, or a family member of the officer, one or more gifts with the aggregate value specified by Section 176.003(a)(2)(B), excluding any gift described by Section 176.003(a-1); or

(3) has a family relationship with a local government officer of that local governmental entity. (a-1) The completed conflict of interest questionnaire must be filed with the appropriate records administrator not later than the seventh business day after the later of:

(2) the date that the vendor:

(A) begins discussions or negotiations to enter into a contract with the local governmentalentity; or

(B) submits to the local governmental entity an application, response to a request for proposalsor bids, correspondence, or another writing related to a potential contract with the local governmental entity; or

(3) the date the vendor becomes aware:

(A) of an employment or other business relationship with a local government officer, or a family member of the officer, described by Subsection (a);

(B) that the vendor has given one or more gifts described by Subsection (a); or(C) of a family relationship with a local government officer.

Form provided by Texas Ethics Commission www.ethics.state.tx.us Revised 11/30/2015

Williamson County
3101 S.E. Inner Loop
Georgetown, TX 78628

REQUEST FOR PROPOSALS

Emergency Generator and Automatic Transfer Switch Preventive Maintenance, Repair and Rental Services

RFP # 1812-283

TABLE OF CONTENTS

1. Proposal Information:

Attachment A	Emergency Generators and Automatic Transfer Switches Preventive Maintenance, Repair, and Rental Services Contract (hereinafter referred to as “Services Contract”) (to be executed by the parties upon award)
Attachment B	Facilities, Equipment List, Compensation and Fees
Attachment C	Not Included
Attachment D	Bid References
Attachment E	Contractor’s Qualifications Form
Attachment F	Inspection Checklist – Emergency Generator and Automatic Transfer Switch (to be included as ‘Exhibit B’ to the Services Contract)
Attachment G	Generators Calendar
Attachment H	RFP Checklist

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SECTION I
SCOPE

SCOPE: Pursuant to Texas Government Code Section 2165.001, Custodianship of State Property, and Section 2156.121, Use of Competitive Sealed Proposals, Williamson County is requesting proposals for the provision of emergency generator and automatic transfer switches preventative maintenance and repair and rental of generators as needed in various facilities maintained by Williamson County located in Georgetown, Texas.

CONTRACT TERM: Services shall be for a period beginning on or after October 1, 2018, and shall expire on or before September 30, 2021. The Contract may be renewed for two (2) additional one (1) year period, provided that renewal is executed prior to expiration of the current contract term. Any renewals shall be in writing and at the same terms and conditions, plus any approved changes.

This contract is contingent upon the continued availability of funding. If funds become unavailable through lack of appropriations, budget cuts, county office consolidations, or any other disruption of current appropriations, provisions of the Termination Article in the Services Contract shall apply.

WORKING HOURS: Contractor shall perform the services during normal working hours of 7:00 a.m. – 4:00 p.m., Monday through Friday. Contractor may perform work at hours other than normal business hours at the direction of the Contract Administrator. Overtime will not be paid without prior written approval from Williamson County Contract Administrator.

SCHEDULE OF EVENTS:
The solicitation process for this Request for Proposal (RFP) will proceed according to the following schedule. Williamson County reserves the right to change the dates in the Schedule of Events set forth above upon notification to prospective Respondents posted in the form of an Addendum on Bidsync: http://bidsync.com

EVENT	DATE
Issue RFP	
Mandatory Pre-Proposal Conference #1 **OR** (Respondents are required to attend only one of the scheduled meetings)	NA
Mandatory Pre-Proposal Conference #2	NA
Deadline for Submission of Questions	December 28, 2018
Deadline for Submission of Proposals/RFP Opening	January 2, 2019
Expected Award of Contract	TBD
Expected Contract Start Date	TBD

b) PRE-PROPOSAL CONFERENCE:

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SECTION II
STATEMENT OF WORK

1. **DEFINITIONS**: The following definitions below apply to this Request for Proposal:

Best and Final Offer (BAFO)	A formal request made to acceptable or potentially acceptable Respondents for revision to the originally submitted proposal.
Contract	The Emergency Generators and Automatic Transfer Switches Preventative Maintenance, Repair, and Rental Services Contract referred to in this RFP as Attachment A – Services Contract which will be executed upon award.
Contract Administrator	The individual designated by Williamson County to represent Williamson County during the performance of the Contract, further defined below.
Contractor	The individual, partnership or corporation whose proposal is accepted and who enters into a Contract with Williamson County.
BidSync	The designated website where Williamson County post formal solicitations (over $25K), addenda to posted solicitations, and awards. The website for the BidSync can be found: http://bidsync.com
Respondent	An individual, partnership or corporation that responds to this RFP.
RFP	Request for Proposal

2. **SERVICE REQUIREMENTS:**

A. Contractor shall provide inspections, preventative maintenance, remedial repair, and emergency repair for thirteen (13) emergency generators and associated automatic transfer switches in various county-owned facilities in Williamson County, Texas, as listed in Attachment B – Facilities, Equipment List, Compensation and Fees. Contractor shall provide the labor, materials, equipment, tools and transportation required to perform these services as stated in Attachment A – Generator Services Contract.

B. Contractor shall provide, mobilize and connect rental generators that are equivalent to existing generators along with cables on an as-needed basis. Mobilization shall occur within two (2) business hours of notification. Rental generators shall be fueled with a minimum of 50% fuel capacity upon arrival and shall accept #2-off road diesel fuel. Generators shall be provided at the rates proposed in Attachment B – Facilities, Equipment List, Compensation and Fees.

C. Williamson County may, from time-to-time, initiate projects and identify the need for emergency generators and associated automatic transfer switch installation, repair and/or maintenance services to Contractor and document such services through a separate document (hereinafter referred to as a "Delivery Release"). Such Delivery Releases will constitute amendments to the Contract, subject to the terms, and conditions set forth in the Contract, and shall include a description of the project assignment, scope of services, schedule and term, and compensation specific to the Delivery Release which shall be negotiated at or before the time of such Delivery Release. Any work completed by Contractor without a Delivery Release will not be paid for by Williamson County.

   a. Contractor understands and agrees that no guaranteed minimum number of Delivery Releases will arise from the Contract.

b. Upon receipt of a Delivery Release, Contractor shall respond to the Contract Administrator, as defined in Section (5) below, on-site with same or next day service. Contractor shall perform all work under a Delivery Release within the timeframe agreed upon. In the event that repairs cannot be completed at time of service, the following information shall be provided to the Contract Administrator:
   i. Reason why repair cannot be completed; and
   ii. Timeline for when repairs will be completed.

D. Contractor will be allowed delays, if approved by Contract Administrator, for weather conditions based on the concurrence of contract and Owner for two (2) circumstances:
   a. Isolated inclement weather, wherein the property is determined to be unworkable for short period of time of day(s) of precipitation and day(s) following for short times between otherwise good weather; and/or
   b. Sustained inclement weather, wherein the property is determined to be unworkable for a sustained period of time.

- If Contractor believes either condition applies, a request shall be made in writing to the Contract Administrator for a site and official determination. Condition and approval of the delay must be approved in writing by Contract Administrator and delayed work must be rescheduled no later than two (2) business days from the delay approval. Last month of each quarter is reserved for approved rescheduling of generators, if needed. Refer to Attachment G – Generator Schedule, for quarterly, annually, and triennial generator inspections.

E. Billing –
   a. Contractor shall submit monthly itemized invoices, including all required reports and supporting documents detailed in this contract, to the Contract Administrator for services rendered on or before the 5th business day following the end of each month. Invoices received before services are 100% completed or parts are in installed will be disputed and returned to the Contractor. No invoices will be submitted by the Contract Administrator for payment until services and parts are verified.
   b. Williamson County fiscal year is October 1 – September 30th. Invoices for services rendered and parts installed must be paid in the appropriate fiscal year.

3. **INSTALLATION AND REPAIRS**:
   All work shall be in strict accordance with federal, state, and local codes and ordinances and comply with the Occupational Safety and Health Administration (OSHA) requirements, National Electrical Code, and the Americans with Disabilities Act Accessibility Guidelines.

4. **MATERIALS:**
   Contractor shall provide any and all parts required to perform service on equipment. All materials and components installed shall meet the manufacturer's minimum recommended specifications and must be compatible with the existing equipment. Equipment and materials utilized by the Contractor must be of equal or better quality than existing equipment and materials. Contractor shall ensure documentation verifying conformance to manufacturer's minimum recommended specifications must be provided to Williamson County Contract Administrator prior to installation. Contractor shall ensure that access to standard stocked parts for remedial or emergency work is available in twenty-four (24) hours or less. A list of standard stock parts that the Contractor has available shall be submitted to the Contract Administrator at time of contract award or upon request. All parts used in repair or reconditioning shall be new or manufacture recommended parts. Manufacture recommended parts must be approved by the Contract Administrator. Refurbished parts will not be accepted. If generic part is used, the warranty must be applied equivalent to the standard stock part.

   a. WARRANTY STATEMENT:
      1. Contractor shall provide one (1) year warranty statement. This warranty shall obligate the Contractor to provide all equipment, materials, workmanship, and labor at no cost to Williamson County during the warranty period, and to correct any defect excluding any damage caused by misuse, abuse, vandalism, or acts of God.

5. **CONTRACT ADMINISTRATOR:**

Williamson County shall designate a "Contract Administrator" for the Contract who will serve as the point of contact between Williamson County and Contractor. The instructions of the Contract Administrator and/or the Contract Administrator's designated representative (hereinafter collectively the "Contract Administrator") are to be strictly and promptly followed by Contractor at all times. The Contract Administrator is to have free access to Contractor's supplies, equipment, and work product at all times for inspection and audit. Contractor is to afford the Contract Administrator all necessary assistance during those inspections and/or audits. The Contract Administrator will decide any and all questions that may arise as to the quality and acceptability of work performed, and as to the manner of performance and rate of progress of the work. The Contract Administrator will determine the amount of work performed and materials furnished which are to be paid under this Contract. Failure of the Contract Administrator during the progress of the Contract, to:

i. Discover or reject unacceptable work;
ii. Discover work not in accordance with the Contract; or
iii. Failure to exercise any remedies in connection therewith, shall not be deemed an acceptance thereof, nor a waiver, of Williamson County's right to full performance of the contract.

Contractor agrees to conduct all of its services under this Contract by and through appropriate communications with Williamson County's Contract Administrator. Contractor understands and agrees that work, installation or any other service performed without the prior written direction of Williamson's County Contract Administrator is work outside the scope of this Contract and shall be performed exclusively at Contractor's risk and own expense.

6. **PERFORMANCE REQUIREMENTS:**

Contractor's performance shall include, but not be limited to, the following when performing services.

a. Contractor must have a minimum of one (1) National Institute of American Service Excellence (ASE) certified diesel mechanic on staff in the Williamson County area, as stated in Subsection (d) below;
b. Contractor must have a minimum of one (1) licensed master electrician on staff or on retainer to provide services for this Contract;
c. Contractor must have a minimum of ten (10) years business and technical experience performing services in populated office buildings; and
d. Contractor must maintain a branch/office within one (1) hour of Williamson County throughout the duration of this Contract. If Contractor has no branch/office within the one (1) hour driving timeframe of Williamson County, one must be set up within ninety (90) days of Contract award, at no cost to Williamson County.
e. QUARTERLY or LEVEL 1 INSPECTIONS:

Contractor shall be responsible for performing quarterly inspection services on the emergency generators and automatic transfer switches as indicated in the equipment list in Attachment B – Facilities, Equipment List, Compensation and Fees. All quarterly inspections performed by Contractor are to be scheduled via e-mail to the Contract Administrator at least fifteen (15) business days in advance of the proposed scheduled date of work. All quarterly inspections must be completed during Williamson County's first (1st), third (3rd) and fourth (4th) quarter, outlined in Attachment G – Generator Calendar. A completed quarterly inspection service performed by Contractor shall include a submitted electronic copy report addressing issues, any deficiencies found, recommended or needed software updates, and corrective measures to include, but not limited to, the following and in accordance with Attachment F – Inspection Checklist – Emergency Generator and Automatic Transfer Switch:

a. Lubrication is to be inspected to include, but not be limited to:
   i. system leaks;
   ii. oil levels; and
   iii. filters.

b. Cooling System is to be inspected to include, but not be limited to:
   i. leaks;
   ii. water level;
   iii. DCA/antifreeze;
   iv. filters;
   v. hoses;
   vi. belts;

vii. cooling fins;
viii. block heater;
ix. pillow block; and (10)complete cooling service.

c. Fuel System is to be inspected to include, but not be limited to:
   i. leaks;
   ii. filters;
   iii. lines;
   iv. tank levels;
   v. transfer pump;
   vi. water separators;
   vii. solenoid;
   viii. wiring; and
   ix. governor.

d. Ignition System is to be inspected to include, but not be limited to:
   i. plugs;
   ii. points, condenser;
   iii. cap, rotor;
   iv. wiring, coil; and
   v. corrosion.

e. Exhaust System is to be inspected to include, but not be limited to:
   i. leaks;
   ii. condensation;
   iii. turbo charger;
   iv. flex pipe; and
   v. rain cap.

f. Housing/Cabinets are to be inspected to include, but not be limited to:
   i. general overall condition;
   ii. fit; and
   iii. decals.

g. DC – Electrical is to be inspected to include, but not be limited to:
   i. batteries;
   ii. water level;
   iii. specific gravity;
   iv. terminals;
   v. cables;
   vi. engine safeties annunciator;
   vii. batter charge rate; and
   viii. battery replacement (occurs every three (3) years, starting in 2019. Quarterly report must include: Condition of battery and make/model numbers).

h. AC – Electrical is to be inspected to include, but not be limited to:
   i. brushes, generator, regulator;
   ii. instruments, meters;
   iii. circuit breakers;
   iv. automatic transfer switches;
   v. contacts exerciser clock; and
   vi. remote annunciators.

i. Operational tests to be inspected include, but not be limited to:
   i. no load test;
   ii. voltages;
   iii. frequency;
   iv. time delays;
   v. oil pressure; and
   vi. engine temperature.

j. Software update(s) to be inspected include, but not limited to:
   i. Contractor must notify the Contract Administrator in writing no more than three (3) business days after the completion of the quarterly inspection of any recommended or needed software updates. (Report must include recommended upgrades, how to upgrade the software to ensure latest version of software, and any additional valuable information to assist the Contract Administrator).

k. Generators must be exercised under available load for a minimum of forty-five (45) minutes. Start and stop time must be reported on the quarterly report. A successful test is one in which the generator:
   i. Achieves the minimum exhaust gas temperature for the quarterly testing as indicated in the equipment owner's manual; or
   ii. Operates at normal temperature while running at no less than the 30% of the nameplate KW rating.

f. **ANNUAL or LEVEL 2 INSPECTIONS:**

Contractor shall be responsible for performing annual inspection services on the emergency generators and automatic transfer switches. Contractor is responsible for oil, filters, batteries, block heater, belts, hoses, lamps, and antifreeze replacements and associated costs. Annual Inspections must include the Quarterly inspection items above and the annual inspection content indicated below. All transfer tests must be scheduled, via e-mail to the Contract Administrator, at least fifteen (15) business days in advance. Annual inspections must be completed during Williamson County's second (2nd) quarter. Transfer tests may be required to be performed after 3:00 PM. An annual inspection shall include a typed report on all the elements of the quarterly inspection and quarterly report together with operational tests to be performed to include the following:

a. transfer of loads;
b. load bank test (using the current industry standard);
c. oil change;
d. block heater or block heater element replacement, whichever is most feasible and approved by the Contract Administrator. (Occurs every two (2) years, starting in 2019. Annual report must include: Condition of block heater and make/model number).
e. belt and coolant system hoses replacement, including clips and clamps (occurs every four (4) years, starting in 2019);
f. antifreeze change;
g. filter changes to include, but not be limited to, the following;
   i. oil;
   ii. fuel; and
   iii. air breather.
h. Replace indicator lamps on automatic transfer switches equipped with indicator lights; and
i. Fuel testing and sampling (Annual report must include: Completion date and copy of the results from the certified vendor that completed the analyses of the fuel testing).
   i. All fuel analyses must be performed by a certified laboratory.

- If a generator fails the annual testing, annual testing may be repeated if requested by the Contract Administrator. If the generator test is repeated due to failure, it should be operated under a load supplied by a load bank (i.e. load bank testing) for two continuous hours each year. During this two-hour period, the unit should be operated as follows:
  a. Less than or equal to 25% of the nameplate KW rating for 30 minutes;
  b. Greater than 25% but less than or equal to 50% of the nameplate KW rating for 30 minutes;
  c. Greater than 50% but less than 75% of the nameplate KW rating for 60 minutes; and
  d. Greater than 75% of the nameplate KW rating for 75 minutes.

g. **TRIENNIAL or LEVEL 3 INSPECTIONS:**

Contractor shall be responsible for performing annual inspection services on the emergency generators and automatic transfer switches. Contractor is responsible for oil, filters, batteries,

block heater, belts, hoses, lamps, and antifreeze replacements and associated costs. Triennial Inspections shall include the Quarterly and Annual inspection items above and the triennial inspection content as indicated below. All transfer tests must be scheduled, via e- mail to the Contract Administrator, at least fifteen (15) business days in advance. Triennial inspections must be completed during Williamson County's second (2nd) quarter, starting in year 2020. Transfer tests may be required to be performed after 3:00 PM. The Triennial inspection shall include a typed report on all the elements of the annual and quarterly inspection report together with operational tests to be performed to include the following:

a. Starting System is to be inspected to include, but not be limited to:
   i. Replace and verify proper operations of alternator belts - (Report must include: Condition of alternator belts and make/model number); and
   ii. Replace and verify proper operations of fan drive belts - (Report must include: Condition of alternator belts and make/model number).

b. Colling System is to be inspected to include, but not be limited to:
   i. Replace and verify proper operation of coolant – (Report must include: Brand of coolant and quantity of new coolant added);
   ii. Replace and verify proper operation of thermostats and gaskets – (Report must include: Brand of thermostat and gaskets, size of gaskets, and condition of replaced thermostats and gaskets); and
   iii. Replace and verify proper operations of fan belts – (Report must include: Brand, size, make and model of fan belts); and
   iv. Replace and verify proper operations of hoses to include, but not limited to:
      1. Upper radiator hoses;
      2. Lower radiator hoses;
      3. Block heater hoses; and
      4. Other coolant hoses.

c. Air Induction and Exhaust System is to be inspected to include, but not be limited to:
   i. Replace and verify proper operations of air filters – (Report must include: Type, Brand, make and model of air filter).

d. Transfer Switch Maintenance is to be inspected to include, but not be limited to:
   i. Perform visual inspection of all wiring and connections for signs of tracking, overheating, and insulation deterioration;
   ii. Check and tighten all controls circuit wiring terminals;
   iii. Check manual switches for free movement and contract continuity;
   iv. Check all time delay settings and adjust to the customer's specifications;
   v. Check condition of main and arcing contacts and auxiliary contacts;
   vi. Check all common and ground wires. Measure and record resistance to ground readings;
   vii. Check luck connections and mounting insulator bolts (de-energized switch); and
   viii. Check for proper transfer operations and sequencing of time control relays.

h. **INSPECTION REPORTS:**

All inspection reports must be submitted to Contract Administrator within three (3) business days of completion. The attached Attachment F – Inspection Checklist – Emergency Generator and Automatic Transfer Switch (or equal, and shall be submitted to the Williamson County Contract Administrator for approval prior to use) shall be used as the basis for both quarterly inspection and annual inspection reports.

i. NOTICE OF DEFECTS:

Contractor shall notify the Contract Administrator prompt notice of any defective work or which the Contractor has actual knowledge. Prompt notice of all defective work of which Contract Administrator has actual knowledge may be given to the Contractor. Payment may be withheld by the Contract Administrator for identified defective work until such time as the Contract Administrator has determined the defective work has been corrected.

7. **NON-EMERGENCY RESPONSE TIME:**
   Contractor shall respond and arrive on-site to a non-emergency repair requirement sent out by the Contract Administrator, within seven (7) business days. The non-emergency repair must be scheduled, via e-mail to the Contract Administrator, at least five (5) business days after receiving a call from the Contract Administrator.

8. **EMERGENCY RESPONSE TIME:**
   Contractor shall respond and arrive on-site to an emergency repair requirement sent out by the Contract Administrator, within a two (2) hour time period. Contractor is expected to maintain an "on call" contact for emergency responses at all times. All repairs must be completed and the generator returned to service within the timeframe agreed upon by Contract Administrator and Contractor, unless the Contractor has received prior written approval from the Contract Administrator for additional time. To receive a time extension, the Contractor shall notify the Contractor Administrator for the requested time extension. Contract Administrator will acknowledge all such requests and approve in writing. The Contract Administrator may request any additional information deemed necessary to make a decision regarding a requested time extension. Contractor may start work without a Delivery Release number on Emergency work only. Contractor is responsible for ensuring a work order number is received prior to performance of work.

9. **CALLBACK:**
   For the purposes of evaluating performance under this Contract, a "Callback" is defined as a failure due to the mechanic's inability, negligence, or lack of knowledge to correct a problem. All Callbacks shall be responded to in thirty (30) minutes or less.

10. **PERFORMANCE STANDARDS, CODES, AND OTHER REGULATORY REQUIREMENTS:**
    All work performed by Contractor shall be in accordance with the International Mechanical Code, National Electrical Code, state and federal laws and the manufacturer's standard recommendation manuals for service and repair.

11. **SERVICE MANUALS:**
    Contractor shall ensure all operating manuals for equipment listed in Attachment B – Facilities, Equipment List, Compensation and Fees are in place.

12. **SECURITY AND IDENTIFICATION:**
    Contractor shall abide by all procedures and rules as conveyed by Williamson County Contract Administrator regarding security requirements of the property where work is to be performed. Contractor employees must wear either uniforms or appropriate clothing identifying them as employees of the Contractor at all times when working at any Williamson County property. Shorts, muscle shirts, and/or sandals shall not be worn at any time while conducting work under this contract. Contractor personnel must have a Williamson County supplied identification badge visible at all times when working in any Williamson County property, if applicable.

13. **CONTRACTOR ACCESS:**
    Access routes, entrance gates or doors, parking and storage areas, and other necessary Contactor access, along with any imposed time limitations shall be designated by Williamson County's Contract Administrator. Contractor shall conduct operations in strict observation of the access routes and other areas established. Under no circumstances shall any of Contractor's employee, vehicles, or equipment enter or move upon any area not authorized by Williamson County's Contract Administrator for access by Contractor.

14. **EXAMINATION OF PREMISES:**
    Contractor shall be held to have examined all properties at which the work will take place and to be familiar with the conditions under which the work will be accomplished. Contractor shall inspect existing conditions prior to commencing work, including elements subject to damage or movement during the performance of services under this Contract.

15. **EXISTING UTILITIES AND STRUCTURES:**
    Contractor shall adequately protect the work, Williamsons County's property, adjacent property and the public. In the event of damage to facilities as a result of Contractor's operations, Contractor shall take immediate steps to notify Williamson County Contract Administrator and subsequently repair or restore all services to the satisfactory approval of Williamson County Contract Administrator. Further, Contractor shall engage any additional outside services which may be necessary to facilitate repairs until services are

restored. All costs involved in making repairs and restoring disrupted services shall be at the expense of Contractor, and Contractor shall be fully responsible for any and all claims resulting from the damage. Williamson's County Contract Administrator may elect to perform such repairs and deduct the cost of such repairs, replacements, and outside services from amounts due to Contractor. Upon the approval of Williamson County Contract Administrator, Contractor shall have permission to utilize air, water, gas, steam, electricity, and similar items of expense from existing resources on Williamson County property.

16. **WASTE REMOVAL:**
    Contractor will be allowed to store materials and equipment in performance of the Contract only if space is available in each building. Storage space will be arranged through the Contract Administrator. Contractor shall keep the premises clean on a continual basis, and no trash or debris will be permitted to accumulate in work areas. Contractor shall be responsible for removal and disposal of all waste packaging material associated with services being performed which may include, if applicable, the rental of a waste receptacle associated with this Contract. If needed, site placement of the waste receptacle shall be approved by the Contract Administrator. Dispensing of oil, antifreeze, batteries, or other waste removal items shall be documented and completed in accordance with standard regulations. All waste removal shall be documented and made available to the Contract Administrator, upon request.

17. **DISPOSAL OF SALVAGEABLE ITEMS:**
    Contract Administrator shall mark and/or otherwise inform the Contractor of any material that will be salvaged by the Owner. Disposal may include depositing in a central location for salvage by the Owner or delivery to the Owner's warehouse located at 301 S.E., Inner Loop, Georgetown, TX 78626 or such other location as determined by the Contract Administrator.

18. **TOBACCO FREE:**
    All Williamson County properties are tobacco free. Contractor's employees are prohibited from using tobacco in all areas while performing work under this contract on any Williamson County property.

19. **CHEMICALS:**
    Contractors and subcontractors shall provide Contract Administrator with a legible Material Safety Data Sheet (MSDS) on all chemicals used or brought onto Williamson County property. MSDS's shall be submitted to Contract Administrator prior to the start of work or upon request.

20. **OPERATIONS AND MAINTENANCE MANUALS:**
    Contractor shall provide Operations and Maintenance Manuals for all equipment and parts installed as part of the work under this contract, upon request by the Contract Administrator. Contractor shall compile all specified instructions, maintenance manuals and operations date.

21. **TRAINING OF WILLIAMSON COUNTY PERSONNEL:**
    Contractor shall provide training to Williamson County designated personnel for all mechanical equipment and parts installed, upon request by the Contract Administrator.

22. **TRAVEL TIME:**
    Travel time to and from job site is not reimbursable under this Contract. Contractor shall ensure that the authorized Williamson County representative logs the start and completion time on the service ticket for the services performed. Any work not logged is subject to withholding or delay of acceptance or payment, at the sole discretion of Williamson County Contract Administrator. Contractor shall provide the following information on the service ticket: building name, Williamson County representative, and name of Contractor's employee performing the work.

23. **FREIGHT AND SHIPPING COSTS:**
    Freight and shipping costs are not an allowable expenses under this Contract. Expedited shipping charges, with prior approval from the Williamson County Contract Administrator, may be allowed.

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SECTION III
PROPOSAL REQUIREMENTS

1. **PROPOSAL INFORMATION:**

A. **SUBMISSION REQUIREMENTS:**

Proposal pages should be numbered and contain an organized, paginated table of contents corresponding to the sections listed below in Section 4(d).

i. Respondents shall submit one (1) original:

1. Attachment B – Facilities, Equipment List, Compensation and Fees;
2. Attachment C – Not Included;
3. Attachment E – Contractor's Qualifications Form;
4. Attachment F – Inspection Checklist – Emergency Generator and Automatic Transfer Switch;
5. Acknowledgement of Addenda, if applicable;
6. Litigation History;
7. Bid Bond; and
8. All other documentation required for this proposal.

B. **COSTS:**

Respondents to this RFP are responsible for all costs of proposal preparation and delivery.

C. **PUBLIC INFORMATION:**

Williamson County will not consider any proposal that bears a copyright. Williamson County will strictly adhere to the requirements of Chapter 552 of the Texas Government Code (the "Texas Public Information Act") regarding the disclosure of public information. As a result, by participating in this solicitation process, Respondent acknowledges that all information, documentation, and other materials submitted in response to this solicitation may be subject to public disclosure under the Texas Public Information Act. Williamson County does not have authority to agree that any information submitted will not be subject to disclosure. Disclosure is governed by the Texas Public Information Act. Respondents are advised to consult with their legal counsel concerning disclosure issues resulting from this process and to take precautions to safeguard trade secrets and proprietary or otherwise confidential information. Williamson County assumes no obligation or responsibility relating to the disclosure or nondisclosure of information submitted by Respondent. If it is necessary for Respondent to include trade secrets or proprietary or otherwise confidential information in its proposal, Respondent must clearly mark in bold red letters the term "**CONFIDENTIAL**" using at least **15 point font,** on that specific part or page of the submittal which Respondent believes to be confidential. All proposals and parts of proposals that are not marked confidential will be automatically considered to be public information. Should trade secrets or proprietary or otherwise confidential information be included in the submitted CD, as referenced in Section III, Proposal Requirements, par. 1(a), Submission Requirements, Respondent should mark the CD with the word "**CONFIDENTIAL**." If Williamson County receives a public information request seeking information marked by Respondent as confidential, Respondent will receive notice of the request as required by the Texas Public Information Act. If Williamson County receives a public information request for proposals and parts of proposals that are not marked confidential, the information will be disclosed to the public as required by the Texas Public Information Act.

D. **CONTENTS:**

Listed below is a summary of all information to be included in a proposal submitted in response to this RFP. Proposals submitted without all of the required information may be rejected. Williamson County reserves the right, in its sole judgment and discretion, to waive minor technicalities and errors in the best interest of Williamson County.

1. **COMPANY INFORMATION: <5 pts>**
   a. Including, but not limited to the following:
   b. company description;
   c. ownership information;
   d. physical and mailing address;
   e. other company locations/offices;

f. primary contact; and
g. office, mobile telephone number(s) and email of company's primary contact.

2. **COMPENSATION AND FEES: <65 pts>**
   a. Include pricing on the Attachment B – Facilities, Equipment List, Compensation and Fees.
   b. Respondents may not add qualifications, conditions, exceptions, variations or additional items to the proposal, or otherwise modify the pricing structure of the RFP in any manner. Any such modifications will not be considered for evaluation, and may be cause for rejection of the proposal, at the full and sole discretion of Williamson County.

3. **Relevant Experience and Qualifications: <20 pts>**
   a. Complete and submit Attachment E – Contractors Qualifications Form. Respondent should also provide a free-form narrative that describes, in detail, any relevant qualifications not provided on Attachment E – Contractors Qualifications Form.
   b. The following minimum requirements are required of Respondents:
      i. Certificate of Authority to do business in Texas;
      ii. Demonstration that the Respondent has successfully been in business or the principals shall have had ownership/executive management in a previous company with comparable type experience, for the services solicited in this RFP;
   c. Demonstration of Respondent's relevant experience for the type of work solicited in the RFP.
   d. Names of top management, key personnel and each personnel's duties, including each personnel's background and experience.
   e. Organizational chart illustrating roles and responsibilities of key management and personnel assigned to provide services under the Contract;
   f. Demonstrate ten (10) years business and technical experience performing relevant services in populated buildings;
   g. Provide names and resumes of personnel that will perform services under this Contract that have National Institute of American Service Excellence (ASE) diesel mechanic certification;
   h. Provide names and resumes for the licensed master electrician(s) that will be performing services under this Contract; and
   i. Contractor must maintain a branch/office within one (1) hour of Williamson County throughout the duration of this Contract. If Contractor has no branch/office within the one (1) hour driving timeframe of Williamson County, one must be set up within ninety (90) days of Contract award, at no cost to Williamson County.

4. **PROPOSED METHODOLOGY: <5 pts>**
   a. A detailed plan outlining the methodology intended to be employed by the Respondent that demonstrates the processes of implementation regarding the requirements of the Contract. This shall include, but not be limited to:
      i. Explanation of processes and techniques used to understand and calculate costs to provide the services under this Contract;
      ii. Explanation how problems encountered will be diagnosed and remedied;
      iii. value engineering;
      iv. maintaining budgets;
      v. ensuring employee retention;
      vi. training and certification requirements for employees;
      vii. provide plan as to how equipment maintenance schedules will be maintained;
   b. Provide plan on how unscheduled service calls will be received and routed to maintain response times as per contract requirements;
   c. Provide number of staff and their roles that will be assigned to support this contract;

d. Company workload in proportion to the services outlined in the Contract;
e. Coordination of work with partners/affiliates/subcontractors; and
f. Explain communication procedures regarding problems encountered or completed projects status to the Contract Administrator.

5. **QUALITY CONTROL & SAFETY PROGRAM: <5 pts>**
   a. **Quality Control/Quality Assurance:**
      i. The Respondent shall provide the name and job title of the person in the organization who oversees the quality assurance program. Respondent shall describe its quality assurance program, quality requirements and means of measurement and shall provide process flow charts on how quality is maintained and achieved. The Respondent shall describe its policy regarding establishing quality control processes similar to the International Standard Organization (ISO) 9000 and other in-place controls for adherence to budget, quality, safety and schedule. Williamson County reserves the right to require a copy of the quality assurance manual and quality control processes which, if awarded the Contract, must be maintained by Contractor during the term of the Contract.

   b. **Contractors Safety Record:**
      i. The Respondent shall provide its workers' compensation experience modification rate - EMR - for the last five (5) years as part of the proposal. This shall be submitted by Respondent's insurance carrier on their letterhead. In addition, Respondent shall provide the name and job title of the person in the organization who manages the safety program and a description of such program. Williamson County reserves the right to require a copy of the safety manual, which shall be maintained by Contractor during the term of the Contract.

6. **EXECUTION OF PROPOSAL: <P/F>**
   a. The Attachment C – Execution of Proposal shall be completed as directed, signed by the individual or an authorized agent of the business entity submitting the proposal, and returned with the proposal. Failure to sign where indicated may result in disqualification of proposal.

7. **LITIGATION HISTORY: <P/F>**
   a. Provide details of all litigation history, including but not limited to administrative claims and proceedings and arbitration within the past five (5) years**.**
   b. Respondents involved in litigation, depending upon the circumstances of the litigation, may be disqualified at the sole discretion of Williamson County.

8. **REFERENCES: <P/F>**
   a. Include a minimum of three (3) references on Attachment E – Contractors Qualifications Form from clients for whom similar services were performed or products were provided.
   b. Include project description, contact names, position, company name, telephone number, and email address for each reference.

2. **Order Precedence**:
   A. In the event of conflicts or inconsistencies between this RFP and its attachments, such conflicts or inconsistencies shall be resolved by reference to the documents in the following order of priority:

      i. Attachment A - Service Contract;
      ii. Request for Proposal (includes all remaining Attachments), and
      iii. Respondent's response to Request for Proposals.

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Attachment B:

FACILITIES, EQUIPMENT LIST, COMPENSATION AND FEES

Respondent Name: _____

Quarterly, annual and triennial inspections; generator locations; and Unit Price Bidding Sheet: Williamson County reserves the option to add facilities/generators to this Contract that are similar in scope, at the contract rates. The facilities are listed as follows:

#	Facility Name Address Make Model/Serial #, KW, Fuel Type	Quarterly Inspection Cost*	Quarterly & Annual Inspection Cost**	Quarterly, Annual Inspection & Triennial Cost***	Annual Fuel Testing	Generator Site Visit @ Bid Yes / No
1.	**Round Rock Annex Bldg A** 211 Commerce Cove, Round Rock Baldor Model #IDLC80-J2S, Serial #P0508290007, 180 kW Diesel	$	$	$	$	
2.	**Central Maintenance Facility** 3151 SE Inner Loop, Georgetown Onan Model #GGFB-3388565, Serial #B000062477, 35 kW NG	$	$	$	N/A	
3.	**Juvenile Justice Center** 200 Wilco Way, Georgetown Generac Model #2254270400, Serial #2066635, 200 kW Diesel	$	$	$	$	
4.	**Emergency Services Operations Center** 911 Tracy Chambers Lane, Georgetown Cummins Model #DQFAD-1206664, Serial #F120358177, 1000 kW Diesel	$	$	$	$	
5.	**South Jail** 508 Rock St, Georgetown Generac Model #SD0400KG22125D18HPYY3, Serial #9159996, 400 kW Diesel	$	$	$	$	
6.	**North Jail** 508 Rock St, Georgetown Cummins Model #DFLE-5583568, Serial #K020442322, 1500 kW Diesel	$	$	$	$	
7.	**Georgetown Health Dept** 102 W. 3rd St, Georgetown Sentry Pro Model #SPL-1000-325, Serial #AH 2-200, 109 kW Diesel	$	$	$	$	
8.	**Taylor Health Dept.** 115 W. 6th St., Taylor Baldor Model #IDLC-150-JD, Serial # P071015001, 150 kW Diesel	$	$	$	$	
9.	**Cedar Park Annex** 350 Discovery Blvd, Cedar Park Shindaiwa Model # DGK45C, Serial #71041-0000471, 36 kW Diesel	$	$	$	$	

Attachment B:

FACILITIES, EQUIPMENT LIST, COMPENSATION AND FEES

#	**Facility Name** **Address** **Make** **Model/Serial #, KW, Fuel Type**	**Quarterly Inspection Cost***	**Quarterly & Annual Inspection Cost****	**Quarterly, Annual Inspection & Triennial Cost*****	**Annual Fuel Testing**	**Generator Site Visit @ Bid Yes / No**
10.	**WCCHD** 355 Texas Ave, Round Rock Cummins/Onan Model #C35 D6, Serial # K170274292, 35 kW Diesel	$	$	$	$	
11.	**North Campus- Impound Yard** 3181 SE Inner Loop, Georgetown Kohler Model #15REOZK, Serial #SGM32JKH7, 15 kW Diesel	$	$	$	$	
12.	**North Campus – EMS Training** 3189 SE Inner Loop, Georgetown Kohler Model #80REOZJK, Serial #SGM32JKJW, 80 kW Diesel	$	$	$	$	
13.	**North Campus – Fuel Station** 3161 SE Inner Loop, Georgetown Kohler Model #80REOZJK, Serial #TBD, 80 kW Diesel	$	$	$	$	

Attachment B:

FACILITIES, EQUIPMENT LIST, COMPENSATION AND FEES

GENERATOR RENTAL RATES – As Needed*****

Generator Size	Daily	Weekly	Monthly
35 KW			
200 KW			
400 KW			
1000 KW			
1500 KW			

Cables	Daily	Weekly	Monthly
4/0 Cable, 50' Length			
4/0 Female Pigtails			
4/0 Male Pigtails			

***Performed three (3) times per year in 1st, 3rd & 4th quarters.**

****Performed once per year and includes quarterly inspection done in the second quarter**

*****Performed once during the second quarter every third year with first service in 2020.**

******Indicate Yes (Y) or No (N) in dedicated column for each listed generator, if site visit occurred prior to bid submission.**

*******Pricing includes mobilization, delivery, hook-up, disconnect, and pick-up fees.**

ADDITIONAL SERVICES – Labor and Material for Remedial Repairs*

Labor – Remedial Repairs:

Hourly Labor Rate for contracted services – The following prices are for services that are not included in the quarterly, annual inspections, or triennial services due to unusual inspection/preventative maintenance fees, quoted above, are combined fees that should not be double billed.

Labor Rate for Service:	Hourly Rate
Normal Working Hours – Remediate Repairs	$
Overtime Hours – Outside of normal working hours	$

Materials – Remedial Repairs:

Materials not covered under quarterly, annual or triennial inspections:

- Contractor shall invoice at MSRP/List* price less _____ percent.

Materials purchased at local retail suppliers by Contractor field staff:

- Contractor shall invoice at cost (sales receipt/invoiced price).

*****MSRP/List – Williamson County reserves the right to request from Contractor any published or printed catalog that reflects MSRP/List price for verification purposes.

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Bidder References

List the last (3) companies or governmental agencies, where the same or similar goods and/or services as contained in this IFB package, were recently provided by Bidder.

Reference 1

Client Name: Location:

Contact Name: Title:

Phone: E-mail

Contract Date To: Contract Date From: Contract Value: $

Scope of Work:

Reference 2

Client Name: Location:

Contact Name: Title:

Phone: E-mail

Contract Date To: Contract Date From: Contract Value: $

Scope of Work:

Reference 3

Client Name: Location:

Contact Name: Title:

Phone: E-mail

Contract Date To: Contract Date From: Contract Value: $

Scope of Work:

Attachment E

Contractor's Qualifications Form

Company Profile:					
Company Name					
Federal EIN #					
Other Company Locations:					
List:					
Length of Time Company has been in business:		Year		Months	
Has company done business under a different name, give name and location:					
Name			Location:		
# of Full-Time Employees:			# of Part-Time Employees:		
# of Service Technicians:			# of Electricians:		
Has company failed to complete or defaulted on a contract?					
No:		Yes		If Yes, explain below:	
Explanation:					

Local Branch/Office Location:					
Street Address:					
City:			Zip:		
Length of Time Branch Office has been in operations:		Year		Months	
Geographical Coverage Area (Cities or Counties Supported by Branch):					
List:					
# of Full-Time Employees:		# of Part-Time Employees			
Total # of Service Tech in Local Branch/Office					
Estimated Number of Service Techs assigned to support contract:					

Individual Qualifications Assigned to Contract:	
Name:	Licenses/Certifications:
1	
2	
3	
4	
5	
6	

Generator Location	FY 19				FY 20				FY 21			
	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
Round Rock A												
Central Maintenance												
Juvenile Justice Center												
ESOC												
Jail - South												
Jail - North												
Georgetown Health Dept												
Taylor Health Dept												
Cedard Park Annex												
TX Ave - WCCHD												
North Campus - Impound												
North Campus - EMS												
North Campus - Fuel Station												

Attachment G

Generator Schedule

Generator Location	FY 19 and FY 21												FY 20											
	1st Quarter			2nd Quarter			3rd Quarter			4th Quarter			1st Quarter			2nd Quarter			3rd Quarter			4th Quarter		
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept
Round Rock A	**Q**			A			Q			Q			**Q**			T			Q			Q		
Central Maintenance	**Q**			A			Q			Q			**Q**			T			Q			Q		
Juvenile Justice Center		**Q**			A			Q			Q			**Q**			T			Q			Q	
ESOC		**Q**			A			Q			Q			**Q**			T			Q			Q	
Jail - South	**Q**			A			Q			Q			**Q**			T			Q			Q		
Jail - North	**Q**			A			Q			Q			**Q**			T			Q			Q		
Georgetown Health Dept	**Q**			A			Q			Q			**Q**			T			Q			Q		
Taylor Health Dept	**Q**			A			Q			Q			**Q**			T			Q			Q		
Cedard Park Annex		**Q**			A			Q			Q			**Q**			T			Q			Q	
TX Ave - WCCHD	**Q**			A			Q			Q			**Q**			T			Q			Q		
North Campus - Impound		**Q**			A			Q			Q			**Q**			T			Q			Q	
North Campus - EMS		**Q**			A			Q			Q			**Q**			T			Q			Q	
North Campus - Fuel Station		**Q**			A			Q			Q			**Q**			T			Q			Q	

* Q = Quarterly or Level 1 Inspections
** A = Annually or Level 2 Inspections
*** T = Triennial or Level 3 Inspections

**** Last month of each Quarter - December, March, June and September - held for rescheduling, repairs, or other applicable reason as approved by the Contract Administrator

Attachment F

Inspection Checklist Emergency Generator and Automatic Transfer Switch			Date:	
Inspection Type	**_____ Quarterly _____ Annual _____ Triennial**			
Williamson County Work Order Number:		**Location:**	**Fuel Type**	
Vendor Technician:		**Generator Make/Model/Serial #**	**Voltage**	
Hour Meter:		**Transfer Switch Make/Model/Serial #**	**Phase**	

1. Generator	**3. Engine Lubrication**	**5. Instrumentation**
Windings	Oil Leve	Oil Pressure Gauge ____ PSI
Bearings	Oil Changed Y / N	Water Temp Gauge
Brushes	Filter Changed Y / N	Ammeter ___DC Amps
Leads and Connections	Oil Sample Take Y / N	AC Electric Meters
Circuit Breaker	Condition of Crankcase Breather	Control Panel Wiring
Circuit Breaker	Blowby	Indicator Lamps Changed Y / N
Mounts / Bolts	Tubes / Lines / Seals	**6. Air Induction & Exhaust**
Noise	Gaskets	Condition of Precleared
Voltage Load ____ VAC	Governor Oil Level	Air Filter Changed Y / N
Frequency No Load ___ HZ	**4. Engine Electrical**	Condition of Filter Housing
Frequency Load ____ HZ	Battery Water Level	Inlet Piping Gasket, Etc.
Amperage Load ____ AMP	# of Batteries ____	Condition / Sound of Turbo
Auto Start / Stop	Age of Battery ___	Turbo Oil Leaks
Shutdowns	Batteries Changed Y / N	Exhaust Pipes
Pre alarms	SG Battery 1 _ _ _ _ _	Silencer Drain Cond. Trap
Remote Annunciator	Load Test Good / Fair / Week	Rain Cap
2. Colling System	SG Battery 2 _ _ _ _ _	Exhaust Manifold
Radiator Core Condition	Load Test Good / Fair / Week	Exhaust Smoke
Radiator Cap	SG Battery 3 _ _ _ _ _	**7. Fuel System**
Coolant Level	Load Test Good / Fair / Week	Primary Filter Changed Y / N
Anti-Freeze PT _____	SG Battery 4 _ _ _ _ _	Secondary Filter Changed Y / N
PH Level _____	Load Test Good / Fair / Week	Lines and Connections
Coolant Changed Y / N	Battery Cleanliness	Priming Pump
Hose and Clamps	Cables and Posts	Carburetor / Mixer
Hose Changed Y / N	Alternator Condition	Fuel Solenoid / Regulators
Gaskets and Connections	Alternator Belt	Operations of Governor / Control
Pressurized ___ lbs for 10 min	Wiring and Controls	Day Tank Leaks / Operations
Belts and Pulleys	Operations of Glow Plugs	Water in Tank Y / N
Belt Tension	Alternator Output ____ VDC	Fuel Sample Y / N
Belts Changed Y / N	Battery Charger Output ____VDC	Fuel Added Y / N
Fan Bearings / Blades	Starting Motor	% of Fuel in Tank _____
Water Pump	Spark Plugs	**8. Transfer Switch**
Coolant Heater ___ Degrees F	Spark Plug Wires	Wiring
Block Heater Changes Y / N	Distributor Cap Rotor	Connections Temp / Corrosion
Heater Thermostat		Contactor Operation
		Contacts
		Timers / Controls Operation
		Transfer Test Done Y / N

Technician Comments:	
Parts Used & Quantity:	
Williamson County Contract Administrator Signature and Date:	

Attachment H

RFP CHECKLIST

Title: Emergency Generator and Automatic Transfer Switch Preventative Maintenance, Repair and Rental Services

Opening Date: TBD

Respondent Name and Address:

_____ Contact:_____

_____ TX Identification #:_____

_____ Office Phone:_____

_____ Mobile Phone:_____

_____ Email:_____

1. Submitted one (1) original:
   - Company information _____ <5 pts >
   - Attachment B – Facilities, Equipment List, Compensation and Fees _____ <65 pts>
   - Attachment C – Not Included _____ <N/A>
   - Relevant Experience and Qualifications
     - Attachment D – Bidder References _____ <pass/fail>
     - Attachment E – Contractor's Qualifications Form _____ <20 pts>
   - Attachment F – Inspection Checklist _____ (Mandatory)
   - Attachment H – RFP Checklist _____ (Mandatory)
   - Acknowledgement of Addenda, if applicable _____ (Mandatory)
   - Bid Bond _____ (Mandatory)
   - Litigation History _____ <pass/fail>
   - Methodology _____ <5 pts>
   - Quality Assurance/Quality Control & Safety Program _____ <5 pts>

Additional Stipulations

1 Additional Stipulations

1.1 Introduction

The Proposal evaluation and selection process is detailed in this section, as are other factors, and the format in which the Price Proposal of each Proposal should be submitted.

1.2 Price Proposal

The Respondent must utilize the price sheet form as provided in the Appendix A which will be attached to this RFP. The Price Proposal should be included in each copy of the Proposal if submitted in paper form.

Note: Any reworked version of the Appendix that is intended to be a substitute and that is provided by a Respondent may be determined as non-responsive, and may, at the County's sole discretion, result in the Respondent's disqualification.

1.3 Proposal Evaluation and Selection

1.3.1 Evaluation/Selection Criteria

All Proposals received by the designated date and time will be evaluated based on the Respondent's Proposal. Other information may be taken into consideration when that information potentially provides an additional benefit to the County, and further helps the County in receiving the services listed in the RFP.

Respondents' Proposals must meet all mandatory (minimum) requirements in order to be scored. Scoring may also be based on total information gathered by the County at its discretion, including but not limited to respondent's ability to perform "without delay or interference, character,

responsibility, integrity, and experience or demonstrated capability; quality of prior work; compliance with laws; and noncompliance with requirements as to submission of relevant information."

1.3.2 Evaluation Committee and Selection Process

All Proposals will be evaluated by a County appointed Evaluation Committee. The Evaluation Committee may be composed of County Staff that may have expertise, knowledge or experience with the services and/or goods being procured hereunder. Those Respondents meeting all requirements and deemed most qualified may receive further evaluation via telephone or in-person interviews with members of the Evaluation Committee. The County will select a Respondent determined best and most responsible Respondent meeting minimum specifications and qualifications.

Respondents are advised that the Evaluation Committee, at its option, may recommend an award strictly on the basis of the initial RFP responses, or in addition, may have interviews with firms to determine its final recommendation. The Evaluation Committee will present its recommendation to the Williamson County Commissioners' Court for approval and award of contract.

Finalist shall be determined by the Respondent receiving the most points in relation to the following Evaluation Criteria. Additional scoring may be conducted based upon Respondent's presentation during the interview process and may or may not include previous scores from Respondent's Proposal.

1.3.3 Mandatory Criteria

Minimum requirements must be passed in order to be considered for scoring as described in section 1.3.4

1.3.4 Graded Evaluation Factors

The following graded evaluation factors will be used to determine how well a Respondent(s) meet(s) the desired performance.

1.3.5 Interviews

Interview scoring (if applicable) will be provided along with invitation to interview candidates. Best and Final Offer will be required from all Respondents scheduled for interviews, twenty-four (24) hours prior to scheduled interview.

1.3.6 Additional Evaluation Information

The County reserves the right to award a contract for any or all areas of this RFP.

It is the responsibility of the Respondent to provide sufficient information/data in a convincing manner to the County to assure all of the terms, conditions and

expectations **for** satisfactory performance of the services requested herein will be met.

All contact during the evaluation phase shall be through the Williamson County Purchasing Department only. The Respondent shall neither contact nor lobby evaluators during the evaluation process. Attempts by the Respondent to contact and/or influence members of the Evaluation Committee may result in disqualification of Proposal.

1.4 Technical Contact

Christi Stromberg, (or successor), Assistant Facilities Director Williamson County, 3101 SE Inner Loop, Georgetown, TX shall serve as the County's Technical Contact with designated responsibility to ensure compliance with the requirements of the Contract and any ensuing agreement, such as but not limited to, acceptance, inspection and delivery, together with the Purchasing Department. The Technical Contact, together with the Purchasing Department, will serve as liaison between Williamson County Commissioners Court and the Successful Respondent.

1.5 Initial Contract Term

The Successful Respondent shall provide the goods and/or services described herein for an initial term of thirty-six (36) months beginning on the date the RFP is awarded by the Commissioners' Court.

1.6 Contract Extensions

At the end of the Initial Contract Term, the Commissioners Court reserves the right to extend the Initial Contract Term, by mutual agreement of both parties, as it deems to be in the best interest of the County. The extension may be negotiated if renewal indications are provided within the County's timeframe which reflect renewal terms for the forthcoming policy year that are deemed by the County to be competitive with current market conditions. However, the County may terminate the contract at any time if funds are restricted, withdrawn, not approved, or if service is unsatisfactory. Any extension will be in twelve (12) month increments for up to an additional twenty-four (24) months, with the terms and conditions remaining the same. The total period of the contract, including all extensions will not exceed a maximum combined period of sixty (60) months. The extension of the contract is contingent on the appropriation of necessary funds by the Commissioners Court for the fiscal year in question. Upon the failure of the Commissioners Court to so appropriate in any year, the Respondent may elect to terminate the contract, with no additional liability to the County. The County and the Respondent agree that termination shall be the Respondent's sole remedy under this circumstance.

1.7 Insurance Requirements

By signing its Bid, the Respondent agrees to maintain at all times during any term of the Contract and any ensuing Agreement at Respondent 's cost, insurance in accordance with this provision. Respondent will be required to submit Certificates of Insurance **prior to contract award and any renewals.**

All certificates of insurance coverage as specified below must be provided to the following Location and should include the RFP number and description:

Williamson County Purchasing Department
901 S Austin Ave
Georgetown, Texas 78626

Failure to comply with these Insurance Requirements may result in the termination of the Contract and any ensuing Agreement(s) between the Successful Respondent and County.

Successful Respondent must comply with the following insurance requirements at all times during this Contract:

A. Coverage Limits. Except as specified otherwise in the Contract and any ensuing Agreement(s), Successful Respondent, at Successful Respondent's sole cost, shall purchase and maintain during the entire term while the Contract and any ensuing Agreement(s)is in effect the following insurance:

1. Worker's Compensation in accordance with statutory requirements.
2. Commercial General Liability Insurance with a combined minimum Bodily Injury and Property Damage limits of $1,000,000.00 per occurrence and $2,000,000.00 in the aggregate.
3. Automobile Liability Insurance for all owned, non-owned, and hired vehicles with combined minimum limits for Bodily Injury and Property Damage limits of $500,000.00 per occurrence and $1,000,000.00 in the aggregate.
4. Professional Liability Errors and Omissions Insurance in the amount of $2,000,000.00 per claim.

B. Additional Insureds; Waiver of Subrogation. County, its directors, officers and employees shall be added as additional insureds under policies listed under (2) and (3) above, and on those policies where County, its directors, officers and employees are additional insureds, such insurance shall be primary and any insurance maintained by County shall be excess and not contribute with it. Such policies shall also include waivers of subrogation in favor of County.

C. Premiums and Deductible. Successful Respondent shall be responsible for payment of premiums for all of the insurance coverages required under this section. Successful Respondent further agrees that for each claim, suit or action made against insurance provided hereunder, with respect to all matters for which the Successful Respondent is responsible, Successful Respondent shall be solely responsible for all deductibles and self-insured retentions. Except as specified otherwise in the Contract and any ensuing Agreement(s), any deductibles or self-insured retentions **over $50,000** in the Successful Respondent's insurance must be declared and approved in writing by County in advance.

D. Commencement of Work. Successful Respondent shall not commence any field work under this Contract until he/she/it has obtained all required insurance and such insurance has been approved by County. As further set out below, Successful Respondent shall not allow any subcontractor/subconsultant(s) to commence work to be performed in connection with this Contract until all required insurance has been obtained and approved and such approval shall not be unreasonably withheld. Approval of the insurance by County shall not relieve or decrease the liability of Successful Respondent hereunder.

E. Insurance Company Rating. The required insurance must be written by a company approved to do business in the State or Texas with a financial standing of at least an A- rating, as reflected in Best's insurance ratings or by a similar rating system recognized within the insurance industry at the time the policy is issued.

F. Certification of Coverage. Successful Respondent shall furnish County with a certification of coverage issued by the insurer. Successful Respondent shall not cause any insurance to be canceled nor permit any insurance to lapse. **In addition to any other notification requires set forth hereunder, Successful Respondent shall also notify County, within twenty-four (24) hours of receipt, of any notices of expiration, cancellation, non-renewal, or material change in coverage it receives from its insurer.**

G. No Arbitration. It is the intention of the County and agreed to and hereby acknowledged by the Successful Respondent, that no provision of this Contract shall be construed to require the County to submit to mandatory arbitration in the settlement of any claim, cause of action or dispute, except as specifically required in direct connection with an insurance claim or threat of claim under an insurance policy required hereunder or as may be required by law or a court of law with jurisdiction over the provisions of this Contract.

H. Subcontractor/Subconsultant's Insurance. Without limiting any of the other obligations or liabilities of Successful Respondent, Successful Respondent shall require each subcontractor/subconsultant performing work under the Contractor and any ensuing Agreement(s) (to the extent a subcontractor/subconsultant is allowed by County) to maintain during the term of the Contract and any ensuing Agreement(s), at the subcontractor/subconsultant's own expense, the same stipulated minimum insurance required in this section above, including the required provisions and additional policy conditions as shown below in this section.

Successful Respondent shall obtain and monitor the certificates of insurance from each subcontractor/subconsultant in order to assure compliance with the insurance requirements. Successful Respondent must retain the certificates of insurance for the duration of the Contract and any ensuing Agreement(s), and shall have the responsibility of enforcing these insurance requirements among its subcontractor/subconsultants. County shall be entitled, upon request and without expense, to receive copies of these certificates of insurance.

I. Insurance Policy Endorsements. Each insurance policy shall include the following conditions by endorsement to the policy:

1. County shall be notified thirty (30) days prior to the expiration, cancellation, non-renewal or any material change in coverage, and such notice thereof shall be given to County by certified mail to:

   Williamson County Purchasing Department
   901 S Austin Ave
   Georgetown, Texas 78626

2. The policy clause “Other Insurance” shall not apply to any insurance coverage currently held by County, to any such future coverage, or to County’s Self-Insured Retentions of whatever nature.

J. Cost of Insurance. The cost of all insurance required herein to be secured and maintained by Successful Respondent shall be borne solely by Successful Respondent, with certificates of insurance evidencing such minimum coverage in force to be filed with County.

1.8 Tentative Schedule

Event	Date	Time
RFP released in BidSync	December 11, 2018	
Deadline for RFP questions	December 28, 2018	3:00PM
RFP final responses due	January 2, 2019	3:00PM

Question and Answers for Bid #1812-283 - Emergency Generator And Automatic Transfer Switch Preventive Maintenance, Repair

Overall Bid Questions
There are no questions associated with this bid.

Commissioners Court - Regular Session **42.**

Meeting Date: 12/11/2018

Facilities Budget Amendment 12-11-18

Submitted By: Pam Navarrette, County Auditor

Department: County Auditor

Agenda Category: Regular Agenda Items

Information

Agenda Item

Discuss, consider and take appropriate action on an order declaring an emergency and grave necessity due to unforeseeable circumstances and approve a budget amendment to acknowledge additional revenues for the Facilities Department.

Background

To recognize insurance proceeds and the associated expenditures related to the vehicle repairs on a county vehicle.

Fiscal Impact

From/To	Acct No.	Description	Amount
	0100.0000.364100	Insurance Reimbursements	$5,774.37

Attachments

No file(s) attached.

Form Review

Inbox	Reviewed By	Date
County Judge Exec Asst.	Wendy Coco	12/06/2018 10:26 AM
Form Started By: Pam Navarrette		Started On: 12/05/2018 02:22 PM
Final Approval Date: 12/06/2018		

Commissioners Court - Regular Session **43.**

Meeting Date: 12/11/2018

Facilities Budget Amendment 12-11-18

Submitted By: Pam Navarrette, County Auditor

Department: County Auditor

Agenda Category: Regular Agenda Items

Information

Agenda Item

Discuss, consider, and take appropriate action on an order declaring an emergency and grave necessity due to unforeseeable circumstances and approve a budget amendment to acknowledge the additional expenditures for Facilities.

Background

To recognize insurance proceeds and the associated expenditures related to the vehicle repairs of a county vehicle.

Fiscal Impact

From/To	Acct No.	Description	Amount
	0100.0509.004541	Vehicle Repairs & Maint	$5,774.37

Attachments

No file(s) attached.

Form Review

Inbox	Reviewed By	Date
County Judge Exec Asst.	Wendy Coco	12/06/2018 10:26 AM
Form Started By: Pam Navarrette		Started On: 12/05/2018 02:25 PM
Final Approval Date: 12/06/2018		

Commissioners Court - Regular Session **44.**

Meeting Date: 12/11/2018

Economic Development

Submitted For: Charlie Crossfield **Submitted By:** Charlie Crossfield, Road Bond

Department: Road Bond

Agenda Category: Executive Session

Information

Agenda Item

Discussion regarding economic development negotiations pursuant to Texas Government Code, Section 551.087:
a) Business prospect(s) that may locate or expand within Williamson County.
b) Discuss North Woods Road District.
c) Project Amazon
d) Wolf Lakes
e) Project Capstone
f) Project Dalton House
g) Flint Hill Resources-Taylor Fuel Storage Terminal on CR 366
h) Project Deliver

Background

Fiscal Impact

From/To	Acct No.	Description	Amount

Attachments

No file(s) attached.

Form Review

Inbox	Reviewed By	Date
County Judge Exec Asst.	Wendy Coco	12/06/2018 10:30 AM
Form Started By: Charlie Crossfield		Started On: 12/06/2018 08:20 AM
Final Approval Date: 12/06/2018		

Commissioners Court - Regular Session **45.**

Meeting Date: 12/11/2018

Executive Session

Submitted For: Charlie Crossfield **Submitted By:** Charlie Crossfield, Road Bond

Department: Road Bond

Agenda Category: Executive Session

Information

Agenda Item

Discuss real estate matters (EXECUTIVE SESSION as per VTCA Govt. Code sec. 551.072 Deliberation Regarding Real Estate Property if deliberation in an open meeting would have a detrimental effect on the position of the governmental body in negotiations with third person.)

A. Real Estate Owned by Third Parties

Preliminary discussions relating to proposed or potential purchase or lease of property owned by third parties

a) Discuss the acquisition of real property for right-of-way for N. Mays St. Extension

b) Discuss the acquisition of real property for SW 183 and SH 29 Loop.

c) Discuss the acquisition of real property for CR 176 at RM 2243

d) Discuss the acquisition of real property: CR 101

e) Discuss the acquisition of real property: CR 200

f) Discuss the acquisition of real property for CR 278 at Bagdad Rd.

g) Discuss the acquisition of real property for SH 29 LTP.

h) Discuss the acquisition of real property for County Facilities.

i) Discuss the acquisition of Easement interests for the Brushy Creek Trail Project.

j) Discuss the acquisition of real property and easements from San Gabriel River Ranch Subdivision.

k) Discuss the acquisition of real property for CR 278 @ Bagdad Rd.

l) Discuss the acquisition of real property for Seward Junction SE Loop.

m) Discuss the acquisition of real property for SH 29 @ DB Wood.

n) Discuss the acquisition of real property for Hairy Man Rd.

o) Discuss the acquisition of real property for SW Bypass.

p) Discuss Somerset Road Districts No. 3 & 4 reimbursements for acquisition & construction of Reagan Blvd.

q) Discuss the aquisition of real property for CR 111.

r) Discuss the acquisition of real property for Corridor H

s) Discuss an Interlocal Agreement with the City of Hutto regarding CR 163.

t) Discuss the acquisition of drainage easements on the Forest North Drainage Project.

u) Discuss the acquisition of Office Condominiums at 321 Ed Schmidt Boulevard, Hutto, Texas

v) Discuss the acquisition of real property for the expansion of Ronald Reagan at IH 35.

w) Discuss the acquisition of right-of-way for Corridor C.

x) Discuss the acquisition of right-of-way for Corridor F.

y) Discuss the acquisition of right-of-way for Corridor D.

z) Discuss the acquisition of right-of-way for Southeast Corridor.

aa) Discuss the acquisition of right-of-way for Reagan extension.

bb) Discuss possible sale of County-owned 7.38 acres in Breakaway Park Subdivision.

B. Property or Real Estate owned by Williamson County

Preliminary discussions relating to proposed or potential sale or lease of property owned by the County

a) Discuss County owned real estate containing underground water rights and interests.

b) Discuss wastewater easements in Berry Springs Park

c) Discuss sale of County property on Ronald Reagan Blvd.

d) Discuss possible sale of +/- 10 acres located on Chandler Road near the County Sheriff's Office Training Facility

e) Potential governmental uses for 8th Street downtown parking lot

f) Discuss possible uses of property owned by Williamson County on Main St. between 3rd and 4th Streets. (formerly occupied by WCCHD)

g) Discuss property usage at Longhorn Junction

h) Discuss sale of excess 183A right of way to abutting property owner.

C. Consider intervention in lawsuit regarding de-listing of Bone Cave harvestman.

D. Discuss the possible placement of agricultural-related monuments at the Williamson County Exposition Center

with the participation of third parties.
E. Discuss the San Gabriel River trail easements.
F. Discuss the Williamson County Reimbursement Agreement for Construction of San Gabriel Blvd. and New Hope Road with the City of Leander and TIRZ #1

Background

Fiscal Impact

From/To	Acct No.	Description	Amount

Attachments

No file(s) attached.

Form Review

Inbox	Reviewed By	Date
County Judge Exec Asst.	Wendy Coco	12/06/2018 10:30 AM
Form Started By: Charlie Crossfield		Started On: 12/06/2018 08:19 AM
Final Approval Date: 12/06/2018		