


Project Name: CR 258 (Sunset Ridge to Ronald Reagan Blvd)


IN WITNESS WHEREOF, the *County* and the *Engineer* have executed this supplemental agreement in duplicate,

ENGINEER:
By: 
Signature

Kyle A. Gass
Printed Name

Infrastructure Division Manager
Title

8/13/2015
Date

COUNTY:
By: 
Signature

DAN A. GATTINI
Printed Name

County Judge
Title

08-28-2015
Date

OK
my 8/14/2015



Project Number CR 238 / Summit Pileup in Rainsford Region Blvd

**ATTACHMENT A
SUPPLEMENTAL NO. 4 TO
WORK AUTHORIZATION NO. 1**

This Work Authorization is made pursuant to the terms and conditions of the Agreement entered into by and between Williamson County, Texas, a political subdivision of the State of Texas, (*the "County"*) and Don Durden, Inc., dba Civil Engineering Consultants (*the "Engineer"*).

Part 1. The *Engineer* will provide the following engineering services: Perform additional hydraulic analysis based on surveyed channel cross-sections, modify roadway plans to incorporate profile change, develop/submit 95% PS&E to meet TxDOT 2014 Standards, and provide bid phase services.

Part 2. The maximum amount payable for services under this Work Authorization without modification is hereby increased by \$54,333.00 for a new maximum amount of \$354,062.75.

Part 3. Payment to the *Engineer* for the services established under this Work Authorization shall be made in accordance with the Agreement.

Part 4. This Work Authorization shall become effective on the date of final acceptance of the parties hereto and shall terminate on 06/01/2016, unless extended by a Supplemental Work Authorization.

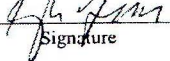
Part 5. This Work Authorization does not waive the parties' responsibilities and obligations provided under the Agreement.

Amended Number: CB 255-08-0000-1 (Judge is Ron (aka Reagan) Hild)

ATTACHMENT A (con't.)

Part 6. This Work Authorization is hereby accepted and acknowledged below.

ENGINEER:
Don Durden, Inc.,
dba Civil Engineering Consultants

By: 
Signature

Kyle A. Gass
Printed Name

Principal / Division Manager
Title

8/13/2015
Date

COUNTY:
Williamson County, Texas

By: 
Signature

Dan A. Gattis
Printed Name

County Judge
Title

08-28-2015
Date

LIST OF EXHIBITS

Exhibit A - Services to be Provided by County

Exhibit B - Services to be Provided by Engineer

Exhibit C - Work Schedule

Exhibit D - Fee Schedule

EXHIBIT A

SERVICES TO BE PROVIDED BY THE COUNTY

Williamson County will furnish to the Engineer the following items/information:

FC110 CLIENT COORDINATION & PROJ MANAGEMENT

1. Perform Traffic Evaluations and Projections - existing counts and design year projections necessary to prepare traffic control plans and traffic studies.
2. Conduct design concept conference.
3. Provide As-built plans and ROW maps for preceding projects within the project limits.
4. Provide any existing subsurface information that classifies geotechnical conditions along the proposed right-of-way. Such information shall include soil borings, data reports, and interpretative reports

FC120 SOCIAL, ECONOMIC & ENVIRONMENTAL STUDIES AND PUBLIC INVOLVEMENT

1. Secure required Environmental Permits from regulatory agencies.
2. Conduct any environmental investigations that may be needed in order to satisfy state and federal requirements and provide the data to the Engineer for incorporation into the work. Such investigations may include cultural resource studies, archeological surveys, endangered species, wetland delineations, etc.
3. Coordinate and secure agreements from property owners for entry for the purpose of survey data collection. Provide executed right-of-entry agreements to Engineer.

FC130 RIGHT-OF-WAY (ROW) & UTILITIES

1. Right-of-Way Map.
 - A. A ROW map shall be furnished in hard copy format.
 - B. ROW map and field notes shall be properly revised as required due to changes in Highway Design, Ownership Changes or Revised Parcel Numbering.
2. Utility Coordination. Coordinate directly with utility owners for potholing and for the resolution of utility conflicts.
3. Provide utility relocation plan information for non-joint bid and joint-bid utilities adjustments to be performed within the project area.

FC160 ROADWAY DESIGN CONTROLS

1. Upon request, provide data required to develop Pavement Design for all applicable roadways, including the thickness and specifications for each

CR 258 Sunset Ridge to Ronald Reagan Blvd
Supplemental #4 to Work Authorization #1

pavement layer and subgrade stabilization. Data to include:

- Falling weight deflectometer testing results
- PMIS data of historic pavement evaluation for this section of roadway
- Texas Triaxial class (TTC) and soil series to be used in Modified Triaxial design, or

2. Provide documentation approving existing roadway section for use in widened roadway section for the following:
 - A. Main lanes
 - B. Intersecting Streets

FC163 MISCELLANEOUS (ROADWAY)

1. Agreements – The County will negotiate with the appropriate entities in order to obtain necessary agreements pertaining to utilities, railroads and traffic signals.
2. Submit the final notice of intent (NOI) for SW3P activities to appropriate agencies.
3. Provide available, applicable special specifications, special provisions and updated list of bid items. (Electronic Format)
4. Tabulation of current, applicable unit bid prices. (Electronic Format)
5. Copies of appropriate, applicable Departmental standard sheets (Electronic Format).
6. Secure approvals from local, regional, state and federal agencies. Provide assistance, necessary data, and information, as necessary, to agencies. Obtain approvals from the various agencies, including Texas Department of Licensing and Regulations (TDLR) coordination and approvals.
7. Timely reviews, decisions and directions necessary to permit the project to progress according to the agreed upon project schedule (Attachment D).
8. Appropriate project file information maintained by the County.
9. Provide County's File Management System (FMS) format and requirements at Notice to Proceed for this contract

FC170 BID PHASE SERVICES

1. Prepare and distribute meeting minutes from the pre-bid meeting.
2. Review Contractor qualifications.
3. Prepare Notice of Award.

EXHIBIT B SERVICES TO BE PROVIDED BY ENGINEER

Civil Engineering Consultants (Engineer) shall provide additional engineering services needed to update the current project design to conform to TxDOT 2014 Standard Specifications, address needs identified through recent coordination with property owners, and provide bid phase services. Services included are described below.

ENGINEERING SERVICES:

FC 110 PROJECT MANAGEMENT & ADMINISTRATION.

1. Provide ongoing coordination with County as required in the design and administration of this project in order to meet project objectives which include completing and delivering a bid ready set of construction plans and documents on schedule and within budget.

FC130 RIGHT-OF-WAY (ROW) & UTILITIES

1. Update project basemap based on resolved existing right-of-way as established by Walker Surveying;
2. Update property owner information in plans to reflect current ownership;
3. Incorporate plat/survey information provided by Mr. Eberwein and Mr. Mosner to reflect current/planned development of that lot.

FC160 ROADWAY DESIGN CONTROLS

1. Revise proposed profile between Sta 129+00 through Sta 141+50;
2. Update plans to include proposed driveways at Mr. Mosner's property;
3. Update plan and profile sheets, roadside ditches, project cross-sections, earthwork computations and quantities as needed to incorporate changes in proposed profile, design of new driveways, and revise ditches to reduce tree impacts.

CR 258 Sunset Ridge to Ronald Reagan Blvd
Supplemental #4 to Work Authorization #1

FC 161 DRAINAGE

1. Refine/verify Culvert #2 design based on updated project survey and channel cross-section data collected in the field;
2. Update layouts and hydraulic computations as required based on the design Q25 yr.
3. Develop recommendations for grading and/or armoring needs immediately downstream of the culvert improvements.
4. Modeling of Culvert #2 and the channel immediately upstream and downstream of CR 258 will be performed by creating a steady state model using HEC-RAS v. 4.1.0.
 - a. The channel will be modeled 200 ft upstream of CR 258 and 450 ft downstream of CR 258 using topographic survey data collected as described in FC 150.A.3.
 - b. Flow that passes over the Tucker driveway will be accounted for as lateral weir flow.
 - c. As the channel is not within a Special Flood Hazard Area, no floodplain and floodway determinations will be performed.
 - d. As the channel is not within a Special Flood Hazard Area, no CLOMR and LOMR will be produced.

FC 163 Traffic Control Plan and PS&E Submittals.

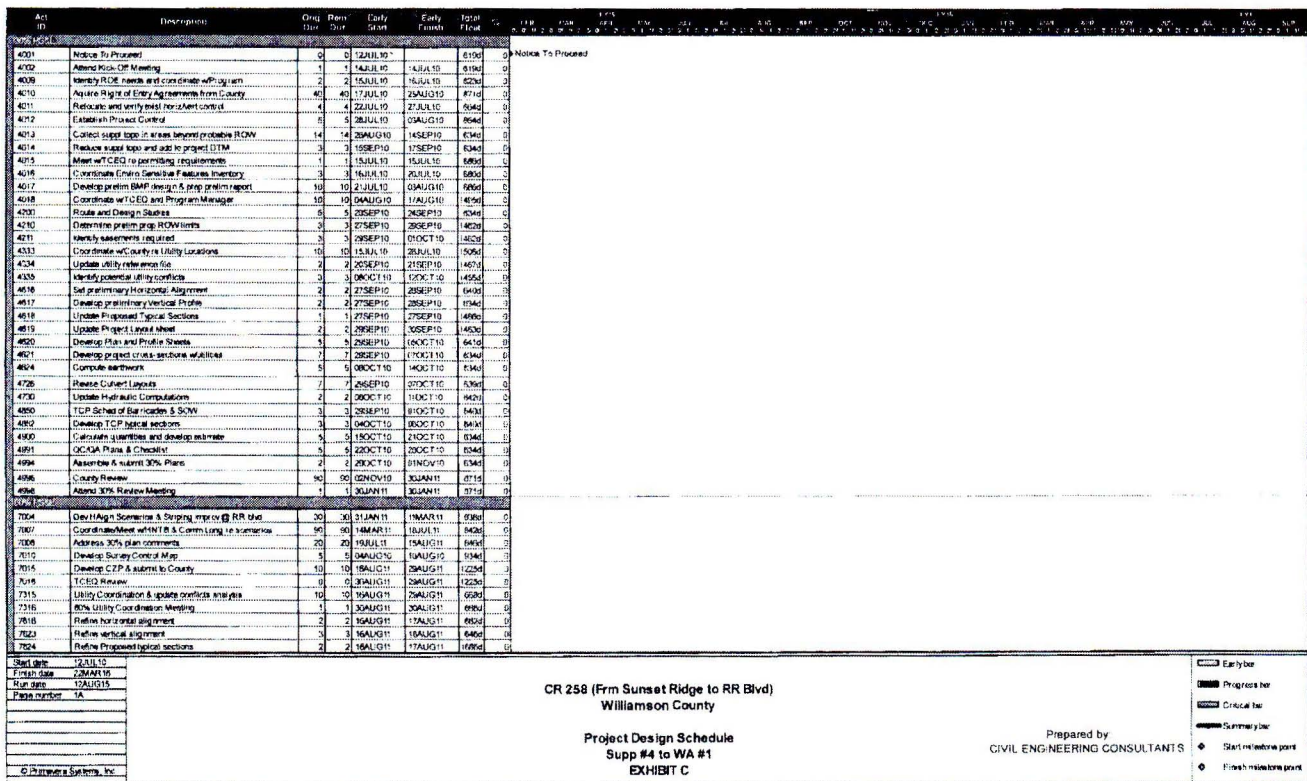
1. Prepare 95% milestone submittal to provide review of newly incorporated survey, design and plan changes; submittal at minimum will meet the 90% submittal requirements outlined in the Plan Checklists included in Chapter 7 of the Design Criteria Manual. 95% submittal to meet the TxDOT Standards Specifications adopted November 1, 2014.

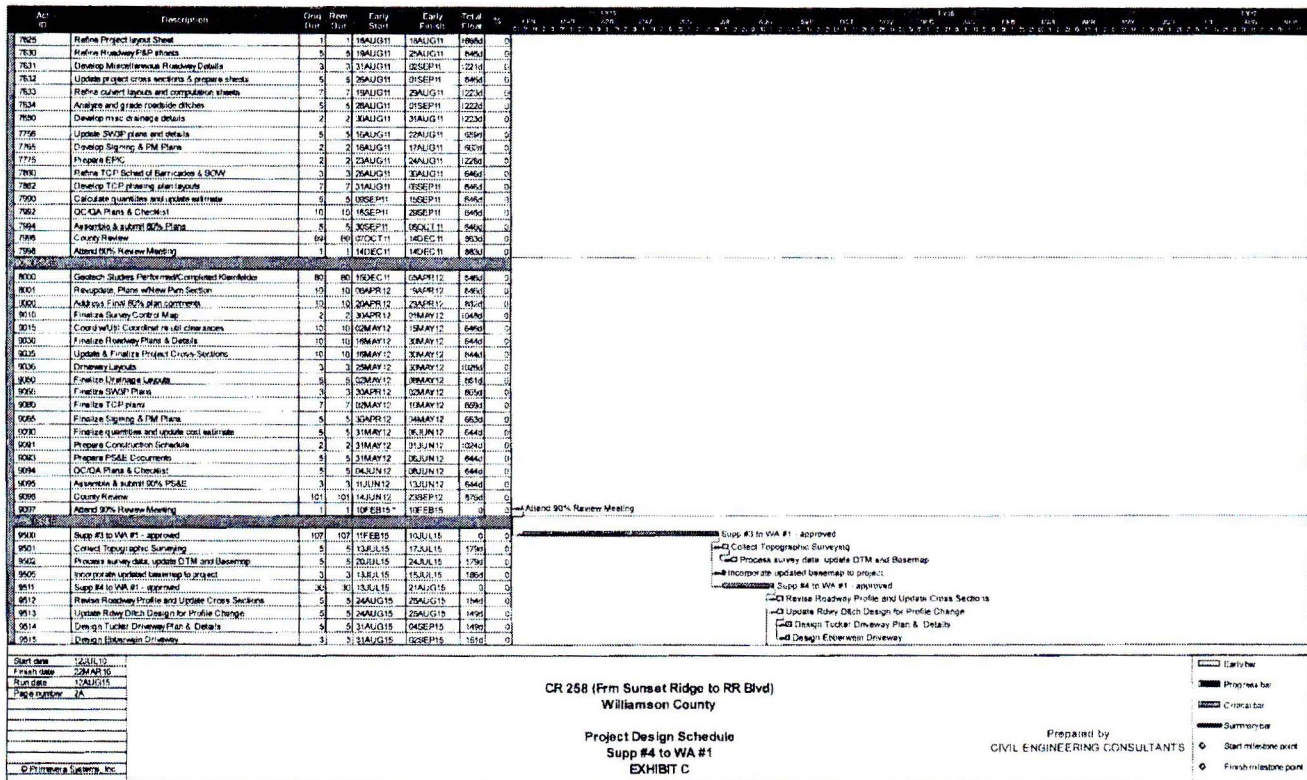
BID PHASE SERVICES:

1. Prepare three (3) sets of the Project Manual and Plan Drawings for distribution per Chapter 7, Section 3.2.1 for use in the Advertisement of Project.
2. Attend Pre-Bid Meeting;.
3. Respond to Contractor Questions
4. Prepare and Distribute Necessary Addenda (2 max)

CR 258 Sunset Ridge to Ronald Reagan Blvd
Supplemental #4 to Work Authorization #1

5. Attend Bid Opening;
6. Review Bids and prepare bid tabulation and provide recommendation to Program Manager.





[illegible]

Prepared by
CIVIL ENGINEERING CONSULTANTS

- **Summary bar**
- **Critical bar**
- **Progress bar**
- **Empty bar**
- **Start milestone point**
- **Finish milestone point**

EXHIBIT D - FEE PROPOSAL FOR ADDITIONAL SERVICES
Supplemental #4 to WA #1 (August 12, 2015)

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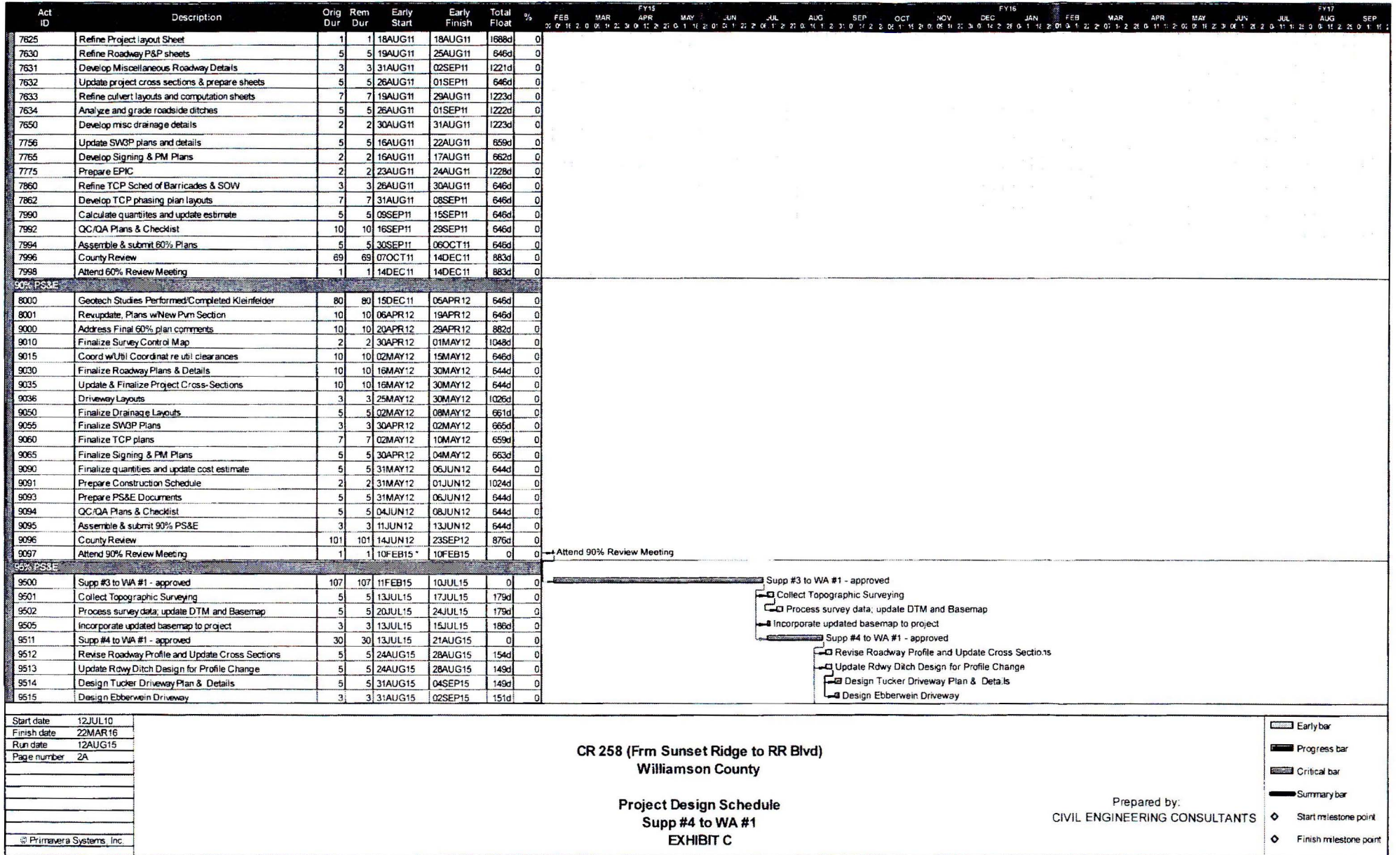
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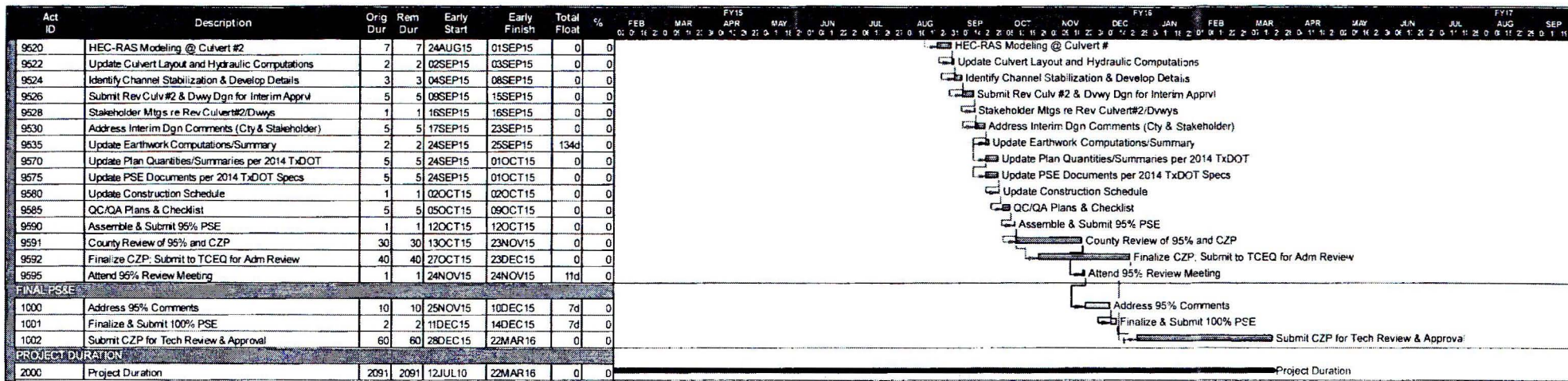
Work Authorization # 1

Project: CR 250
 Limits: From Sunset Ridge to Ronald Reagan Blvd, 1.74 Mi

EXHIBIT D - FEE PROPOSAL FOR ADDITIONAL SERVICES

Act ID	Description	Orig Dur		Rem Dur		Early Start		Early Finish		Total Float	%
		Dur	Dur	Start	Finish	Start	Finish				
30% PS&E											
4001	Notice To Proceed	0	0	12JUL10 *				619d	0		0
4002	Attend Kick-Off Meeting	1	1	14JUL10	14JUL10			619d	0		0
4009	Identify ROE needs and coordinate w/Program	2	2	15JUL10	16JUL10			623d	0		0
4010	Aquire Right of Entry Agreements from County	40	40	17JUL10	25AUG10			871d	0		0
4011	Relocate and verify exist horizert contrl	4	4	22JUL10	27JUL10			664d	0		0
4012	Establish Project Control	5	5	28JUL10	03AUG10			664d	0		0
4013	Collect suppl topo in areas beyond probable ROW	14	14	26AUG10	14SEP10			634d	0		0
4014	Reduce suppl topo and add to project DTM	3	3	15SEP10	17SEP10			634d	0		0
4015	Meet w/TCEQ re permitting requirements	1	1	15JUL10	15JUL10			686d	0		0
4016	Coordinate Enviro Sensitive Features Inventory	3	3	16JUL10	20JUL10			686d	0		0
4017	Develop prelim BMP design & prep prelim report	10	10	21JUL10	03AUG10			686d	0		0
4018	Coordinate w/TCEQ and Program Manager	10	10	04AUG10	17AUG10			1495d	0		0
4200	Route and Design Studies	5	5	20SEP10	24SEP10			634d	0		0
4210	Determine prelim prop ROW limits	3	3	27SEP10	28SEP10			1462d	0		0
4211	Identify easements required	3	3	29SEP10	01OCT10			1462d	0		0
4333	Coordinate w/County re Utility Locations	10	10	15JUL10	28JUL10			1506d	0		0
4334	Update utility reference file	2	2	20SEP10	21SEP10			1467d	0		0
4335	Identify potential utility conflicts	3	3	08OCT10	12OCT10			1455d	0		0
4616	Set preliminary Horizontal Alignment	2	2	27SEP10	28SEP10			640d	0		0
4617	Develop preliminary Vertical Profile	2	2	27SEP10	28SEP10			634d	0		0
4618	Update Proposed Typical Sections	1	1	27SEP10	27SEP10			1466d	0		0
4619	Update Project Layout sheet	2	2	29SEP10	30SEP10			1463d	0		0
4620	Develop Plan and Profile Sheets	5	5	29SEP10	05OCT10			641d	0		0
4621	Develop project cross-sections w/utilities	7	7	29SEP10	07OCT10			634d	0		0
4624	Compute earthwork	5	5	08OCT10	14OCT10			634d	0		0
4726	Revise Culvert Layouts	7	7	29SEP10	07OCT10			639d	0		0
4730	Update Hydraulic Computations	2	2	08OCT10	11OCT10			642d	0		0
4850	TCP Sched of Barricades & SOW	3	3	29SEP10	01OCT10			640d	0		0
4852	Develop TCP typical sections	3	3	04OCT10	06OCT10			640d	0		0
4900	Calculate quantities and develop estimate	5	5	15OCT10	21OCT10			634d	0		0
4991	QC/QA Plans & Checklist	5	5	22OCT10	28OCT10			634d	0		0
4994	Assemble & submit 30% Plans	2	2	29OCT10	01NOV10			634d	0		0
4996	County Review	90	90	02NOV10	30JAN11			871d	0		0
4998	Attend 30% Review Meeting	1	1	30JAN11	30JAN11			871d	0		0
60% PS&E											
7004	Dev HAlgn Scenarios & Striping Improv @ RR Blvd	30	30	31JAN11	11MAR11			638d	0		0
7007	Coordinate/Meet w/HNTB & Comm Long re scenarios	90	90	14MAR11	18JUL11			642d	0		0
7008	Address 30% plan comments	20	20	19JUL11	15AUG11			646d	0		0
7010	Develop Survey Control Map	5	5	04AUG10	10AUG10			934d	0		0
7015	Develop CZP & submit to County	10	10	15AUG11	29AUG11			1225d	0		0
7016	TCEQ Review	0	0	30AUG11	29AUG11			1225d	0		0
7315	Utility Coordination & update conflicts analysis	10	10	16AUG11	29AUG11			668d	0		0
7316	60% Utility Coordination Meeting	1	1	30AUG11	30AUG11			668d	0		0
7616	Refine horizontal alignment	2	2	16AUG11	17AUG11			662d	0		0
7623	Refine vertical alignment	3	3	16AUG11	18AUG11			646d	0		0
7624	Refine Proposed typical sections	2	2	16AUG11	17AUG11			1588d	0		0
Start date 12JUL10											
Finish date 22MAR16											
Run date 12AUG15											
Page number 1A											
© Primavera Systems, Inc.											
CR 258 (Frm Sunset Ridge to RR Blvd)											
Williamson County											
Project Design Schedule											
Supp #4 to WA #1											
EXHIBIT C											
Prepared by											
CIVIL ENGINEERING CONSULTANTS											
Early bar											
Progress bar											
Critical bar											
Summary bar											
Start milestone point											
Finish milestone point											





Start date 12JUL10
 Finish date 22MAR16
 Run date 12AUG15
 Page number 3A

CR 258 (Frm Sunset Ridge to RR Blvd)
 Williamson County

Project Design Schedule
 Supp #4 to WA #1
 EXHIBIT C

Prepared by
 CIVIL ENGINEERING CONSULTANTS

- Early bar
- Progress bar
- Critical bar
- Summary bar
- Start milestone point
- Finish milestone point

EXHIBIT D - FEE PROPOSAL FOR ADDITIONAL SERVICES
Supplemental #4 to WA #1 (August 12, 2015)

Project: CR 258
Limits: From Sunset Ridge to Ronald Reagan Blvd, 1.74 Mi

Work Authorization # 1

CIVIL ENGINEERING CONSULTANTS

TASK DESCRIPTION	CEC STAFF CODES																TOTAL HOURS	HOURS PER SHEET	COST
	Sheets	032 SENIOR PROJECT MANAGER	017 PROJECT MANAGER	052 PROJECT ENGINEER	002 EIT	023 SENIOR ENGINEERING TECH	007 CADD OPERATOR	029 SENIOR RPLS	003 RPLS	005 SURVEYOR IN TRAINING	050 SURVEY TECH	033 ABSTRACTOR	014 3 PERSON SURVEY FIELD CREW	015 4 PERSON SURVEY FIELD CREW	049 SURVEY COORDINATOR	009 CLERICAL			
Rates		\$ 180.00	\$148.00	\$127.00	\$83.00	\$120.00	\$87.00	\$168.00	\$150.00	\$95.00	\$95.00	\$79.00	\$165.00	\$190.00	\$95.00	\$50.00			
ENGINEERING SERVICES:																			
FC 110 Client Coordination and Proj. Management																			
Update Project Design Schedule			2													6	2		\$ 296.00
Project Administration and Invoicing			8													6	14		\$ 1,484.00
FC 110 TOTAL			10													6	16		\$ 1,780.00
FC 120 Social, Ec. & Env Studies/ Public Involvement																			
Attend Stakeholder meetings (est. @ 2 mgs)																	-		\$ -
Prepare Meeting Exhibits																	-		\$ -
Assist Bond Program in addressing public comments/questions																	-		\$ -
FC 120 TOTAL																			\$ -
FC 130 Right-Of-Way (ROW) & Utilities																			
Update project basemap per resolved ROW (Walker Surveying)				1	2		4										-		\$ 661.00
Update plans to reflect current property owner info				1	2		4										-		\$ 661.00
Incorporate plat/survey info @ Ebenwein				1	2		4										-		\$ 661.00
FC 130 TOTAL				3	6		12												\$ 1,983.00
FC 160 Roadway Design Controls																			
Modify vertical profile - Sta 129+00 to 141+50 (+/-)	4			2	4		8										4	3.5	\$ 1,322.00
Modify design of roadside ditches (profile change & address public comment)			2	6	10		16										36		\$ 3,634.00
Update Project Cross Sections	16			4	8		16										28	1.75	\$ 2,644.00
Update Earthwork Computations & Summary Sheet				2	2		4										8		\$ 798.00
Calculate Roadway Quantities & Update Summary Sheet				2	4		4										10		\$ 974.00
Update Driveway Design along revised profile; design addl driveways: update Driveway Summary Sheet					4		8										14		\$ 1,322.00
QC/QA Reviews		2															2		\$ 360.00
FC 160 TOTAL		2	2	20	32		56										112		\$ 11,044.00
FC 161 Drainage																			
Reinstantiate culvert #2 design per ch1 section using HEC-RAS v.4.1.0			4		8	24											36		\$ 4,216.00
Update culvert layout and hydraulic computations (Q25 yr)			2		4	8		8									22		\$ 2,324.00
Identify/develop channel stabilization immediately d/s of culvert			2		4	8		8									22		\$ 2,324.00
QC/QA Reviews		2	4														6		\$ 962.00
FC 161 TOTAL		2	12		16	40		16									36		\$ 9,816.00
FC 163 Traffic Control Plan and PSE Submittals																			
95% PS&E Submittal:																			
Update 90% PSE to Meet TxDOT 2014 Standards			2	12	24		8										46		\$ 4,748.00
Update Construction Cost Estimate			2		4												6		\$ 656.00
Update Construction Schedule																	1		\$ 190.00
Update SpI Provision Forms (ROW, Utility Relocations, Env Clearances)	1				4												5		\$ 668.00
Prepare 95% plan submittal checklist			1														1		\$ 148.00
Assemble & Submit 95% PS&E			1	2	4		8									4	19		\$ 1,670.00
Attend 95% Review Meeting			6	6													12		\$ 1,650.00
Prepare & distribute 95% review meeting minutes			1	3													4		\$ 529.00
FC 162 TOTAL		1	15	23	35		16									4	95		\$ 10,261.00

EXHIBIT D - FEE PROPOSAL FOR ADDITIONAL SERVICES
 Supplemental #4 to WA #1 (August 12, 2015)

Project: CR 258
 Limits: From Sunset Ridge to Ronald Reagan Blvd, 1.74 Mi

Work Authorization # 1

CIVIL ENGINEERING CONSULTANTS

CEC STAFF CODES		032	017	052	002	023	007	029	003	005	050	033	014	015	049	009	TOTAL HOURS	HOURS PER SHEET	COST
TASK DESCRIPTION	Sheets	SENIOR PROJECT MANAGER	PROJECT MANAGER	PROJECT ENGINEER	EIT	SENIOR ENGINEERING TECH	CADD OPERATOR	SENIOR RPLS	RPLS	SURVEYOR IN TRAINING	SURVEY TECH	ABSTRACTOR	3 PERSON SURVEY FIELD CREW	4 PERSON SURVEY FIELD CREW	SURVEY COORDINATOR	CLERICAL			
	Rate	\$ 180.00	\$148.00	\$127.00	\$93.00	\$120.00	\$87.00	\$168.00	\$150.00	\$95.00	\$95.00	\$79.00	\$185.00	\$190.00	\$95.00	\$50.00			
BID PHASE SERVICES:																			
FC 210 Bid Phase Services																			
Prep Package of Contract Docs for Advertisement of Project			0.5	2			4									8	14.5		\$ 1,078.00
Attend Pre-Bid Meeting; Prepare & Distribute Meeting Minutes			8	8													16		\$ 2,200.00
Respond to Contractor Questions (10 max)			10	10													20		\$ 2,750.00
Prepare and Distribute Necessary Addenda (2 max)		2	4	8			12										26		\$ 3,012.00
Attend Bid Opening			6	6													12		\$ 1,850.00
Prepare Bid Tab and Provide Recommendation Program Manager		0.5	1		5												6.5		\$ 703.00
FC 220 TOTAL		2.5	29.5	34	5		16									8	95		\$ 11,391.00
																	SUBTOTAL SERVICES \$ 46,275.00		
																	DIRECT COSTS \$ 8,058.00		
																	TOTAL AMOUNT \$ 54,333.00		

DIRECT COSTS	Total Units	Unit Cost	Total Cost
Copies, 8-1/2"x11" (per sheet)	1000	\$ 0.12	\$ 120.00
Copies, 11"x17" (per sheet)	3500	\$ 0.14	\$ 490.00
Overnight mail - oversized box	3	\$ 40.00	\$ 120.00
Mileage (meetings assumes 8 trips at @ 240 mi r/t)	1440	\$ 0.58	\$ 828.00
TCEQ Filing Fee	LS	\$ 6,500.00	\$ 6,500.00
Subtotal (Design Related)			\$ 6,058.00
Survey related costs:			
Meals (per item \$30/person per day)		\$ -	\$ -
Hotel (2 rooms est @ \$100/day)		\$ -	\$ -
Mileage (roundtrip plus local travel)		\$ -	\$ -
Subtotal (Survey Related)			\$ -
TOTAL DIRECT COSTS			\$ 8,058.00

COST SUMMARY BY FUNCTION CODE

	Cost
ENGINEERING	
FC 110 Client Coordination and Proj. Management	\$ 1,780.00
FC 120 Social, Ec & Env Studies/ Public Involvement	\$ -
FC 130 Right-Of-Way (ROW) & Utilities	\$ 1,983.00
FC 160 Roadway Design Controls	\$ 11,044.00
FC 161 Drainage	\$ 9,816.00
FC 163 Traffic Control Plan and PSE Submittals	\$ 10,261.00
BID PHASE SERVICES	
FC 210 Bid Phase Services	\$ 11,391.00
DIRECT COSTS	\$ 8,058.00
TOTAL SUPPLEMENTAL SERVICES	\$ 54,333.00