

WILLIAMSON COUNTY, TEXAS

CHANGE ORDER NUMBER: 6

Contractor: Chasco Constructors NTP Required: ☒ YES ☐ NO

Project Name: Ronald Reagan Boulevard Widening

Change Order Work Limits: Sta. 2405+37.55 to Sta. 2680+84.48

Type of Change(on federal-aid non-exempt projects): Minor (Major/Minor)

Reasons: 1B, 2E (3 Max. - In order of importance - Primary first)

Describe the work being revised:

1B. Design Error or Omission. Other. This Change Order addresses conflicts related to the temporary culvert as described in RFI #42, as well as elevation issues identified in RFI #74 that require correction. **2E. Miscellaneous difference in site conditions (unforeseeable) (Item 9).** This Change Order also adds items to the contract for additional work required by Enterprise across their gas lines. Lastly, a monthly rate for an additional message board is being added to the Contract on an as-needed basis.

Work to be performed in accordance with Items: See attached.

New or revised plan sheet(s) are attached and numbered: 2, 19, 21, 24, 29, 40, 44A, 108A, 108B, 163, 164, 303, 323, 351, x875, x876

New Special Provisions/Specifications to the contract are attached: ☐ Yes ☒ No

New Special Provisions to Item N/A No. N/A. Special Specification Item N/A are attached.

Each signatory hereby warrants that each has the authority to execute this Change Order (CO).

The contractor must sign the Change Order and, by doing so, agrees to waive any and all claims for additional compensation due to any and all other expenses; additional changes for time, overhead and profit; or loss of compensation as a result of this change.	The following information must be provided	
	Time Ext. #: <u>N/A</u>	Days added on this CO: <u>0</u>
	Amount added by this change order: <u>\$12,886.00</u>	
	Original Contract Amount: <u>\$52,159,299.00</u>	
THE CONTRACTOR	Date <u>9/17/2025</u>	Total Change Orders To-Date: <u>\$323,449.50</u>
By 		Percent Change in Original Contract: <u>0.62%</u>
Typed/Printed Name <u>Scott Ambrus</u>		
Typed/Printed Title <u>Project Manager</u>		

RECOMMENDED FOR EXECUTION:



Senior Construction Engineer Date 9/17/2025

RECOMMENDED FOR EXECUTION:



Department of Infrastructure Date 9/19/2025
Williamson County



Program Manager Date 9/19/2025

APPROVED:

Presiding Officer of the Date
Williamson County Commissioners Court

N/A

3rd Party Signature Date

WILLIAMSON COUNTY, TEXAS

CHANGE ORDER NUMBER: 6

Project # 24IFB57

TABLE A: Force Account Work and Materials Placed into Stock

	LABOR	HOURLY RATE			HOURLY RATE

TABLE B: Contract Items:

				ORIGINAL + PREVIOUSLY REVISED		ADD or (DEDUCT)	NEW		
ITEM	DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	ITEM COST	QUANTITY	QUANTITY	ITEM COST	OVERRUN/ UNDERRUN
402-6001	TRENCH EXCAVATION PROTECTION	LF	\$7.00	1801.00	\$12,607.00	(114.00)	1,687.00	\$11,809.00	(\$798.00)
432-6045	RIPRAP (MOWSTRIP)(4 IN)	CY	\$740.00	403.00	\$298,220.00	(17.00)	386.00	\$285,640.00	(\$12,580.00)
462-6001	CONC BOX CULV (3 FT X 2 FT)	LF	\$310.00	671.00	\$208,010.00	(227.50)	443.50	\$137,485.00	(\$70,525.00)
465-6162	INLET(COMPL)(PAZD)(FG)(5FTX5FT-4FTX4FT)	EA	\$8,700.00	1.00	\$8,700.00	(1.00)	0.00	\$0.00	(\$8,700.00)
540-6001	MTL W- BEAM GD FEN (TIM POST)	LF	\$34.00	4,902.00	\$166,668.00	(300.00)	4,602.00	\$156,468.00	(\$10,200.00)
540-6016	DOWNSTREAM ANCHOR TERMINAL SECTION	EA	\$1,670.00	21.00	\$35,070.00	(1.00)	20.00	\$33,400.00	(\$1,670.00)
544-6001	GUARDRAIL END TREATMENT (INSTALL)	EA	\$4,100.00	26.00	\$106,600.00	(1.00)	25.00	\$102,500.00	(\$4,100.00)
400-6008	CUT & RESTORE ASPH PAVING	SY	\$250.00	0.00	\$0.00	28.00	28.00	\$7,000.00	\$7,000.00
422-WC01	ENTERPRISE CROSSING LID (145' X 10') (CONCRETE CAP)	CY	\$715.00	0.00	\$0.00	65.00	65.00	\$46,475.00	\$46,475.00
460-6005	CMP (GAL STL 36 IN)	LF	\$240.00	0.00	\$0.00	68.00	68.00	\$16,320.00	\$16,320.00
467-6110	SET (TY 1)(S=3 FT)(HW=3 FT)(6:1)(P)	EA	\$16,000.00	0.00	\$0.00	1.00	1.00	\$16,000.00	\$16,000.00
467-6441	SET (TY II) (36 IN) (CMP) (4:1) (C)	EA	\$7,200.00	0.00	\$0.00	1.00	1.00	\$7,200.00	\$7,200.00
WC-001	PURCHASE, HAUL, PLACE, REMOVE CRANE MATS	EA	\$1,683.00	0.00	\$0.00	8.00	8.00	\$13,464.00	\$13,464.00
WC-002	PORTABLE CHANGEABLE MESSAGE SIGN	MO	\$1,500.00	0.00	\$0.00	10.00	10.00	\$15,000.00	\$15,000.00
	TOTALS				\$835,875.00			\$848,761.00	\$12,886.00

CHANGE ORDER REASON(S) CODE CHART

1. Design Error or Omission	1A. Incorrect PS&E 1B. Other
2. Differing Site Conditions (unforeseeable)	2A. Dispute resolution (expense caused by conditions and/or resulting delay) 2B. Unavailable material 2C. New development (conditions changing after PS&E completed) 2D. Environmental remediation 2E. Miscellaneous difference in site conditions (unforeseeable)(Item 9) 2F. Site conditions altered by an act of nature 2G. Unadjusted utility (unforeseeable) 2H. Unacquired Right-of-Way (unforeseeable) 2I. Additional safety needs (unforeseeable) 2J. Other
3. County Convenience	3A. Dispute resolution (not resulting from error in plans or differing site conditions) 3B. Public relations improvement 3C. Implementation of a Value Engineering finding 3D. Achievement of an early project completion 3E. Reduction of future maintenance 3F. Additional work desired by the County 3G. Compliance requirements of new laws and/or policies 3H. Cost savings opportunity discovered during construction 3I. Implementation of improved technology or better process 3J. Price adjustment on finished work (price reduced in exchange for acceptance) 3K. Addition of stock account or material supplied by state provision 3L. Revising safety work/measures desired by the County 3M. Other
4. Third Party Accommodation	4A. Failure of a third party to meet commitment 4B. Third party requested work 4C. Compliance requirements of new laws and/or policies (impacting third party) 4D. Other
5. Contractor Convenience	5A. Contractor exercises option to change the traffic control plan 5B. Contractor requested change in the sequence and/or method of work 5C. Payment for Partnering workshop 5D. Additional safety work/measures desired by the contractor 5E. Other
6. Untimely ROW/Utilities	6A. Right-of-Way not clear (third party responsibility for ROW) 6B. Right-of-Way not clear (County responsibility for ROW) 6C. Utilities not clear 6D. Other

Williamson County Road Bond Program

Ronald Reagan Boulevard Widening Williamson County Project No. 24IFB57

Change Order No. 6

Reason for Change

This Change Order adds drainage items and adjusts quantities for the installation of a temporary culvert underneath the roadway just south of Kauffman Loop per RFI 42. This Change Order also compensates the Contractor for replacing an inlet with a safety end treatment and grading per RFI 74. This Change Order also adds items to the Contract for the installation of a concrete cap, and temporary construction crossing over the Enterprise gas lines per Enterprise requirements and stated in the Letter of No Objection (LONO). Lastly, this Change Order adds an item for a monthly rate for an additional message board was needed for Kauffman Loop. This will also allow for use on an as needed basis in the future.

Following is a summary of new items required for this Change Order.

ITEM	DESCRIPTION	UNIT	QUANTITY
400-6008	CUT & RESTORE ASPH PAVING	SY	28.00
422-WC01	ENTERPRISE CROSSING LID (145' X 10')	CY	65.00
460-6005	CMP (GAL STL 36 IN)	LF	68.00
467-6110	SET (TY 1)(S=3 FT)(HW=3 FT)(6:1)(P)	EA	1.00
467-6441	SET (TY II) (36 IN) (CMP) (4:1) (C)	EA	1.00
WC-001	PURCHASE, HAUL, PLACE, REMOVE CRANE MATS	EA	8.00
WC-002	PORTABLE CHANGEABLE MESSAGE SIGN	MO	10.00

This Change Order results in a net increase of \$12,886.00 to the Contract amount, for an adjusted Contract total of \$52,482,748.50. The original Contract amount was \$52,159,299.00. As a result of this and all Change Orders to-date, \$323,449.50 has been added to the Contract, resulting in a 0.62% net increase in the Contract cost. No additional days will be added to or deducted from the Contract as a result of this Change Order.

HNTB Corporation

Oscar Salazar-Bueno, P.E.

Change Order Worksheet

Contract Name	Ronald Reagan Blvd. Widening	Solicitation #	24IFB57
Date awarded	7/16/2024		
Awarded Contract Amount		\$52,159,299.00	
			Percentage Change
Change Order #1		\$145,428.00	0.28%
Change Order #2		\$29,362.00	0.06%
Change Order #3		\$28,962.50	0.06%
Change Order #4		\$90,550.00	0.17%
Change Order #5		\$16,261.00	0.03%
Change Order #6		\$12,886.00	0.02%
Total changes to date		\$323,449.50	0.62%
Adjusted contract amount		\$52,482,748.50	(Running totals here)



P.O. Box 1057
Round Rock, TX 78680
(512) 244-0600
Fax (512) 244-6085

24080 - Ronald Reagan Blvd.Widening
CP 016 - RFI 74 - Added SET

8/11/2025

BID ITEM	DESCRIPTION	QTY	UNIT	TOTAL
1	SET (TY I) (S=3 FT) (HW = 3 FT) (6:1) (P)	1	EA	\$ 16,000.00
TOTAL PROPOSAL				\$ 16,000.00

This quotation is good for 30 days. If you have any question, please call our office at 512-244-0600.

Thank you for your business!

Items: 422-WC01 and WC-001



P.O. Box 1057
Round Rock, TX 78680
(512) 244-0600
Fax (512) 244-6085

24080 - Ronald Reagan Blvd. Widening
Change Proposal 015

8/11/2025

BID ITEM	DESCRIPTION	QTY	UNIT	UNIT COST	TOTAL
1	Purchase, Haul, Place and Remove Crane Mats for crossing -WC-001	8	EA	\$1,683.00	\$ 13,464.00
2	Enterprise Crossing Lid (145' x 10') - 422-WC01	65	CY	\$715.00	\$ 46,475.00

	TOTAL PROPOSAL				\$ 59,939.00
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This quotation is good for 30 days. If you have any question, please call our office at 512-244-0600.

Thank you for your business!



P.O. Box 1057
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Fax (512) 244-6085

24080 - Ronald Reagn Blvd.Widening
CP 14 - MONTHLY MESSAGE BOARD

7/17/2025

BID ITEM	DESCRIPTION	QTY	UNIT	UNIT COST	TOTAL
1	PORTABLE CHANGEABLE MESSAGE SIGN	10*	MO	\$1,500.00	\$ 15,000.00

TOTAL PROPOSAL	\$ 15,000.00
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***The quantities are approximate and provided for reference only. Final quantities shall be determined based on the actual scope and execution of work performed.**

This quotation is good for 30 days. If you have any question, please call our office at 512-244-0600.

Thank you for your business!



Scott Ambrus, Project Manager

RONALD REAGAN BLVD WIDENING JOB #24080

CP RFI 42

4/18/2025

DESCRIPTION	QTY	UNIT	UNIT PRICE	TOTAL PRICE
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SOV

400-6008	CUT & RESTORE ASPH PAVING	28	SY	\$250.00	\$7,000.00	✓
460-6005	CMP (GAL STL 36 IN)	68	LF	\$240.00	\$16,320.00	✓
467-6441	SET (TY II) (36 IN) (CMP) (4:1) ©	1 2	EA	\$7,200.00	\$7,200.00 \$14,400.00	
512-6001	PORT CTB (FUR & INST) (SGL SLOPE) (TY 1)	240	LF	\$20.00	\$4,800.00	
512-6025	PORT CTB (MOVE) (SGL SLP) (TY 1)	240	LF	\$19.00	\$4,560.00	
512-6040	PORT CTB (REMOVE) (SGL SLP) (TY 1)	240	LF	\$18.00	\$4,320.00	
545-6003	CRASH CUSH ATTEN (MOVE & RESET)	1	EA	\$2,500.00	\$2,500.00	
545-6005	CRASH CUSH ATTEN (REMOVE)	1	EA	\$800.00	\$800.00	
545-6019	CRASH CUSH ATTEN (INSTL)(S)(N)(TL3)	1	EA	\$12,000.00	\$12,000.00	
662-6004	WK ZN PAV MRK NON-REMOV (W)4"(SLD)	300	LF	\$2.75	\$825.00	
662-6034	WK ZN PAV MRK NON-REMOV (Y)4"(SLD)	360	LF	\$1.10	\$396.00	
					\$67,921.00	
					\$60,721.00	

Highlighted are existing bid prices.

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GENERAL		
1		TITLE SHEET
2	- 3	SUPPLEMENTAL INDEX
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6	- 17	TYPICAL SECTIONS
18		GENERAL NOTES
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169	- 171	ROADWAY PLAN & PROFILE - SH 29
172		ROADWAY PLAN & PROFILE - KAUFFMAN LOOP
173		ROADWAY PLAN & PROFILE - SANTA RITA BLVD
174		ROADWAY PLAN & PROFILE - FIRE STATION
175		ROADWAY PLAN & PROFILE - ELIZABETH PARKWAY
176		ROADWAY PLAN & PROFILE - TOWER ROAD
177		ROADWAY PLAN & PROFILE - CR 258
178	- 180	ROADWAY PLAN & PROFILE - FM 3405
181		INTERSECTION LAYOUT - KAUFFMAN LOOP
182		INTERSECTION LAYOUT - SANTA RITA BLVD
183		INTERSECTION LAYOUT - FIRE STATION
184		INTERSECTION LAYOUT - ELIZABETH PARKWAY
185		INTERSECTION LAYOUT - TOWER ROAD
186		INTERSECTION LAYOUT - CR 258
187		INTERSECTION LAYOUT - FM 3405
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266		RW(TRF)
267		RW(SF)
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273		CULVERT LAYOUT CULVERT NO. 3
274		CULVERT LAYOUT CULVERT 2647+00
275		FLOWAGE EASEMENT MITIGATION GRADING PLAN BRIDGE NO. 5
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320		SCP-MD
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327		SETP-PD
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330		PW
331		PBGC
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380		ABUTMENT NO. 8
381		MISCELLANEOUS ABUTMENT DETAILS
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383		INTERIOR BENT NO. 5
384		INTERIOR BENT NOS. 6 & 7
385		FRAMING PLAN (SPANS 1 & 2)
386		250.00' PRESTRESSED CONCRETE I-GIRDER UNIT (SPANS 1 & 2)
387		FRAMING PLAN (SPANS 3 & 4)
388		250.00' PRESTRESSED CONCRETE I-GIRDER UNIT (SPANS 3 & 4)
389		FRAMING PLAN (SPANS 5-7)
390		265.00' PRESTRESSED CONCRETE I-GIRDER UNIT (SPANS 5-7)
SOWE'S BRANCH BRIDGE		
391		BRIDGE LAYOUT
392		ESTIMATED QUANTITIES & BEARING SEAT ELEVATIONS
393		ABUTMENT NO. 1
394		ABUTMENT NO. 3
395		MISCELLANEOUS ABUTMENT DETAILS
396		INTERIOR BENT NO. 2
397		FRAMING PLAN (SPANS 1 & 2)

THE STANDARD SHEETS SPECIFICALLY IDENTIFIED ABOVE HAVE BEEN SELECTED BY ME OR UNDER MY RESPONSIBLE SUPERVISION AS BEING APPLICABLE TO THIS PROJECT.

Andrea Kleinski, P.E. 02/21/2025
Signature of Registrant & Date

4	RFI #42	ANK	2/20/25
3	RFI 44	ANK	1/31/25
2	RFI #3	CAS	10/24
1	RFI #2	CAS	10/24
NO.	REVISION	BY	DATE
			
RONALD REAGAN BLVD.			
SUPPLEMENTAL INDEX			
Designed:	ANK	FED. RD. DIV. NO. X	STATE TEXAS
Checked:	ANK		
Drawn:	ANK	DIST.	COUNTY
Checked:	ANK	CONTROL NO.	SECTION NO.
		JOB NO.	SHEET NO. 2

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SUMMARY OF WORKZONE TRAFFIC CONTROL ITEMS																					
SHT NO.	LOCATION	0400 6008	0460 6005	0467 6441	0512 6001	0512 6025	0512 6049	0545 6003	0545 6005	0545 6019	0662 6004	0662 6016	0662 6034	0677 6001	0677 6003	0677 6005	0677 6008	0677 6012	6001 6002	6185 6002	6185 6003
		CUT & RESTORE ASPH PAVING	CMP (GAL STL 36 IN)	SET (TY II) (36 IN) (CMP) (4: 1) (C)	PORT CTB (FUR & INST)(SGL SLOPE)(TY 1)	PORT CTB (MOVE)(SGL SLP)(TY 1)	PORT CTB (REMOVE)(SGL SLP)(TY 1)	CRASH CUSH ATTEN (MOVE & RESET)	CRASH CUSH ATTEN (REMOVE)	CRASH CUSH ATTEN (INSTL)(S)(N) (TL3)	WK ZN PAV MRK NON-REMOV (W)4"(SLD)	WK ZN PAV MRK NON-REMOV (W)24"(SLD)	WK ZN PAV MRK NON-REMOV (Y)4"(SLD)	ELIM EXT PAV MRK & MRKS (4")	ELIM EXT PAV MRK & MRKS (8")	ELIM EXT PAV MRK & MRKS (12")	ELIM EXT PAV MRK & MRKS (ARROW)	ELIM EXT PAV MRK & MRKS (WORD)	PORTABLE CHANGEAB LE MESSAGE SIGN	TMA (STATIONARY)	TMA (MOBILE OPERATION)
	RONALD REAGAN BLVD.	SY	LF	EA	LF	LF	LF	EA	EA	EA	LF	LF	LF	LF	LF	LF	EA	EA	EA	DAY	HR
PHASE 0A	BEGIN PROJECT TO STA 2425+00	14	39	1	240								360								
PHASE 0B	BEGIN PROJECT TO STA 2425+00	14	29	1		240					300										
PHASE 1A (SHEET 1 OF 25)	BEGIN PROJECT TO STA 2425+00				790	240															
PHASE 1A (SHEET 2 OF 25)	2425+00 TO STA 2445+00				660																
PHASE 1A (SHEET 3 OF 25)	2445+00 TO STA 2465+00																				
PHASE 1A (SHEET 4 OF 25)	2465+00 TO STA 2485+00																				
PHASE 1A (SHEET 5 OF 25)	2485+00 TO STA 2505+00																				
PHASE 1A (SHEET 6 OF 25)	2505+00 TO STA 2525+00																				
PHASE 1A (SHEET 7 OF 25)	2525+00 TO STA 2545+00																				
PHASE 1A (SHEET 8 OF 25)	2545+00 TO STA 2565+00																				
PHASE 1A (SHEET 9 OF 25)	2565+00 TO STA 2585+00																				
PHASE 1A (SHEET 10 OF 25)	2585+00 TO STA 2605+00																				
PHASE 1A (SHEET 11 OF 25)	2605+00 TO STA 2625+00																				
PHASE 1A (SHEET 12 OF 25)	2625+00 TO STA 2645+00																				
PHASE 1A (SHEET 13 OF 25)	2645+00 TO STA 2665+00																				
PHASE 1A (SHEET 14 OF 25)	2665+00 TO STA 2685+00																				
PHASE 1A (SHEET 15 OF 25)	2685+00 TO END PROJECT																				
PHASE 1A (SHEET 16 OF 25)	FM 3405																				
PHASE 1A (SHEET 17 OF 25)	KAUFFMAN LOOP																				
PHASE 1A (SHEET 18 OF 25)	EAST SANTA RITA BLVD											20	1,130								
PHASE 1A (SHEET 19 OF 25)	TOWER RD														140	12	2	1			
PHASE 1A (SHEET 20 OF 25)	CR 258																				
PHASE 1A (SHEET 21 OF 25)	SH 29										790	12	1,030	300							
PHASE 1B (SHEET 22 OF 25)	KAUFFMAN LOOP																				
PHASE 1B (SHEET 23 OF 25)	EAST SANTA RITA BLVD																				
PHASE 1B (SHEET 24 OF 25)	TOWER RD																				
PHASE 1B (SHEET 25 OF 25)	CR 258																				
PHASE 2A (SHEET 1 OF 16)	BEGIN PROJECT TO STA 2425+00																				
PHASE 2A (SHEET 2 OF 16)	2425+00 TO STA 2445+00																				
PHASE 2A (SHEET 3 OF 16)	2445+00 TO STA 2465+00																				
PHASE 2A (SHEET 4 OF 16)	2465+00 TO STA 2485+00																				
PHASE 2A (SHEET 5 OF 16)	2485+00 TO STA 2505+00																				
PHASE 2A (SHEET 6 OF 16)	2505+00 TO STA 2525+00																				
PHASE 2A (SHEET 7 OF 16)	2525+00 TO STA 2545+00																				
PHASE 2A (SHEET 8 OF 16)	2545+00 TO STA 2565+00																				
PHASE 2A (SHEET 9 OF 16)	2565+00 TO STA 2585+00																				
PHASE 2A (SHEET 10 OF 16)	2585+00 TO STA 2605+00																				
PHASE 2A (SHEET 11 OF 16)	2605+00 TO STA 2625+00																				
PHASE 2A (SHEET 12 OF 16)	2625+00 TO STA 2645+00																				
PHASE 2A (SHEET 13 OF 16)	2645+00 TO STA 2665+00																				
PHASE 2A (SHEET 14 OF 16)	2665+00 TO END PROJECT																				
PHASE 2A (SHEET 15 OF 16)	FM 3405																				
PHASE 2B (SHEET 16 OF 16)	2485+00 TO STA 2505+00																				
	RONALD REAGAN SUBTOTAL	28	68	2	6,230	5,820	6,230	17	20	20	2,123	131	10,625	4,186	140	212	2	1	2	500	50

1	RFI #42	ATG	2/18/25
NO.	REVISION	BY	DATE
			
RONALD REAGAN BLVD.			
QUANTITY SUMMARY TRAFFIC CONTROL			
Designed: ATG	FED. RD. DIST. NO. X	STATE TEXAS	FEDERAL AID PROJECT NO.
Checked: ATG			SEE TITLE SHEET
Drawn: ATG	DIST.	COUNTY	TITLE SHEET
Checked: ATG	CONTROL NO.	SECTION NO.	JOB NO.
	WILLIAMSON		19

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LOC NO.	TCP PHASE	PLAN SHEET NUMBER	LOCATION	STA	TEST LEVEL	DIRECTION OF TRAFFIC (UNI/BI)	FOUNDATION PAD		BACKUP SUPPORT			AVAILABLE SITE LENGTH	CRASH CUSHION										
							PROPOSED MATERIAL	PROPOSED THICKNESS	DESCRIPTION	WIDTH	HEIGHT		INSTALL	REMOVE	MOVE / RESET		L	L	R	R	S	S	
															MOVE/ RESET	FROM LOC. #							N
1	N/A	PP16	SB RONALD REAGAN BLVD	2553+90	TL-3	UNI	PER ATTENUATOR STD		T551 RAIL	12"	32"	62'	X									X	
2	0A	1 OF 1	SB RONALD REAGAN BLVD	2422+39	TL-3	UNI	N/A	N/A	PCTB (SSCB TY1)	24"	42"	50'	X									X	
3	0B	1 OF 1	SB RONALD REAGAN BLVD	2422+44	TL-3	UNI	N/A	N/A	PCTB (SSCB TY1)	24"	42"	50'			X	2						X	
4	1A	2 OF 25	SB RONALD REAGAN BLVD	2431+58	TL-3	UNI	N/A	N/A	PCTB (SSCB TY1)	24"	42"	50'			X	3						X	
5	1A	4 OF 25	NB RONALD REAGAN BLVD	2465+84	TL-3	UNI	N/A	N/A	PCTB (SSCB TY1)	24"	42"	50'	X			1						X	
6	1A	4 OF 25	SB RONALD REAGAN BLVD	2466+15	TL-3	UNI	N/A	N/A	PCTB (SSCB TY1)	24"	42"	50'	X									X	
7	1A	4 OF 25	SB RONALD REAGAN BLVD	2479+95	TL-3	UNI	N/A	N/A	PCTB (SSCB TY1)	24"	42"	50'	X	X								X	
8	1A	5 OF 25	SB RONALD REAGAN BLVD	2485+96	TL-3	UNI	N/A	N/A	PCTB (SSCB TY1)	24"	42"	50'	X									X	
9	1A	6 OF 25	SB RONALD REAGAN BLVD	2508+83	TL-3	UNI	N/A	N/A	PCTB (SSCB TY1)	24"	42"	50'	X	X								X	
10	1A	6 OF 25	SB RONALD REAGAN BLVD	2511+25	TL-3	UNI	N/A	N/A	PCTB (SSCB TY1)	24"	42"	50'	X									X	
11	1A	9 OF 25	SB RONALD REAGAN BLVD	2565+47	TL-3	UNI	N/A	N/A	PCTB (SSCB TY1)	24"	42"	50'	X	X								X	
12	1A	9 OF 25	SB RONALD REAGAN BLVD	2568+46	TL-3	UNI	N/A	N/A	PCTB (SSCB TY1)	24"	42"	50'	X									X	
13	1A	10 OF 25	SB RONALD REAGAN BLVD	2587+67	TL-3	UNI	N/A	N/A	PCTB (SSCB TY1)	24"	42"	50'	X									X	
14	1A	13 OF 25	SB RONALD REAGAN BLVD	2655+70	TL-3	UNI	N/A	N/A	PCTB (SSCB TY1)	24"	42"	50'	X									X	
15	1A	14 OF 25	SB RONALD REAGAN BLVD	2665+60	TL-3	UNI	N/A	N/A	PCTB (SSCB TY1)	24"	42"	50'	X	X								X	
16	1A	14 OF 25	WB FM 3405	2666+60	TL-3	UNI	N/A	N/A	PCTB (SSCB TY1)	24"	42"	50'	X	X								X	
17	1A	14 OF 25	SB RONALD REAGAN BLVD	2667+51	TL-3	UNI	N/A	N/A	PCTB (SSCB TY1)	24"	42"	50'	X	X								X	
18	1A	14 OF 25	SB RONALD REAGAN BLVD	2673+00	TL-3	UNI	N/A	N/A	PCTB (SSCB TY1)	24"	42"	50'	X	X								X	
19	1A	16 OF 25	EB FM 3405	64+39	TL-3	UNI	N/A	N/A	PCTB (SSCB TY1)	24"	42"	50'	X	X								X	
20	1A	21 OF 25	EB SH 29	17+53	TL-3	UNI	N/A	N/A	PCTB (SSCB TY1)	24"	42"	50'	X	X								X	
21	1A	21 OF 25	WB SH 29	30+47	TL-3	UNI	N/A	N/A	PCTB (SSCB TY1)	24"	42"	50'	X									X	
22	1B	22 OF 25	SB RONALD REAGAN BLVD	2431+06	TL-3	UNI	N/A	N/A	PCTB (SSCB TY1)	24"	42"	50'			X	4						X	
23	1B	22 OF 25	SB RONALD REAGAN BLVD	2432+70	TL-3	UNI	N/A	N/A	PCTB (SSCB TY1)	24"	42"	50'	X									X	
24	1B	23 OF 25	NB RONALD REAGAN BLVD	2464+37	TL-3	UNI	N/A	N/A	PCTB (SSCB TY1)	24"	42"	50'		X	X	5						X	
25	1B	23 OF 25	SB RONALD REAGAN BLVD	2464+70	TL-3	UNI	N/A	N/A	PCTB (SSCB TY1)	24"	42"	50'			X	6						X	
26	1B	24 OF 25	SB RONALD REAGAN BLVD	2567+87	TL-3	UNI	N/A	N/A	PCTB (SSCB TY1)	24"	42"	50'			X	12						X	
27	1B	24 OF 25	SB RONALD REAGAN BLVD	2569+58	TL-3	UNI	N/A	N/A	PCTB (SSCB TY1)	24"	42"	50'	X									X	
28	1B	25 OF 25	SB RONALD REAGAN BLVD	2589+21	TL-3	UNI	N/A	N/A	PCTB (SSCB TY1)	24"	42"	50'		X	X	13						X	
29	2A	1 OF 16	NB RONALD REAGAN BLVD	2418+11	TL-3	UNI	N/A	N/A	PCTB (SSCB TY1)	24"	42"	50'		X	X	22						X	
30	2A	2 OF 16	NB RONALD REAGAN BLVD	2427+40	TL-3	UNI	N/A	N/A	PCTB (SSCB TY1)	24"	42"	50'		X	X	23						X	
31	2A	5 OF 16	NB RONALD REAGAN BLVD	2487+91	TL-3	UNI	N/A	N/A	PCTB (SSCB TY1)	24"	42"	50'		X	X	8						X	
32	2A	7 OF 16	NB RONALD REAGAN BLVD	2531+58	TL-3	UNI	N/A	N/A	PCTB (SSCB TY1)	24"	42"	50'		X	X	10						X	
33	2A	9 OF 16	NB RONALD REAGAN BLVD	2565+05	TL-3	UNI	N/A	N/A	PCTB (SSCB TY1)	24"	42"	50'		X	X	26						X	
34	2A	9 OF 16	NB RONALD REAGAN BLVD	2572+79	TL-3	UNI	N/A	N/A	PCTB (SSCB TY1)	24"	42"	50'		X	X	27						X	
35	2A	10 OF 16	NB RONALD REAGAN BLVD	2586+60	TL-3	UNI	N/A	N/A	PCTB (SSCB TY1)	24"	42"	50'		X	X	28						X	
36	2A	13 OF 16	NB RONALD REAGAN BLVD	2662+30	TL-3	UNI	N/A	N/A	PCTB (SSCB TY1)	24"	42"	50'		X	X	14						X	
37	2A	15 OF 16	WB FM 3405	76+09	TL-3	UNI	N/A	N/A	PCTB (SSCB TY1)	24"	42"	50'			X	21						X	
38	2B	16 OF 16	NB RONALD REAGAN BLVD	2487+91	TL-3	UNI	N/A	N/A	PCTB (SSCB TY1)	24"	42"	50'		X	X	31						X	
TOTALS												21	20	X	17	1							

LEGEND:

L=LOW MAINTENANCE
R=REUSABLE
S=SACRIFICIAL
N=NARROW
W=WIDE

FOR DEFINITIONS SEE THE "CRASH CUSHION CATEGORIZATION CHART.PDF" AT THE DESIGN DIVISION (ROADWAY STANDARDS) WEBSITE. USE QUICK LINKS TO ACCESS ATTENUATORS / CRASH CUSHIONS SECTION.
<http://www.dot.state.tx.us/insdtdot/orgchart/cmd/cserve/standard/rdwylse.htm>

CRASH CUSHION SUMMARY SHEET

NO.	REVISION	BY	DATE
1	RFI #42	ATG	2/20/25

FILE: ccss.dgn		DN: TxDOT		CK:		CK:	
© TxDOT		CONT	SECT	JOB		HIGHWAY	
REVISIONS				DIST		COUNTY	
FEDERAL AID PROJECT				SHEET NO.			
				29			

GENERAL:

- 1) PRIOR TO COMMENCING CONSTRUCTION IN A PARTICULAR AREA, THE CONTRACTOR SHALL STRIP THE EXISTING TOPSOIL FROM THE AREA AND STOCKPILE IT IN A SAFE, OUT OF THE WAY LOCATION FOR LATER USE. SEDIMENT CONTROL FENCING SHALL BE PLACED AROUND ALL STOCKPILES OF TOPSOIL.
- 2) ACCESS TO ADJOINING PROPERTIES SHALL REMAIN OPEN AT ALL TIMES AND UNDER ALL WEATHER CONDITIONS. CONTRACTOR SHOULD WORK WITH PROPERTY OWNERS AS NEEDED.
- 3) THE PHASING DESCRIBED HEREIN IS HOW WORK COULD PROGRESS. IF A CONTRACTOR WISHES TO CHANGE THE ORDER OF THE PHASING AND/OR COMBINE PHASES, HE MAY BE ALLOWED TO DO SO. HOWEVER, ANY AND ALL CHANGES MUST BE SUBMITTED TO AND APPROVED BY THE ENGINEER.
- 4) THE CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE AT ALL TIMES.
- 5) CONTRACTOR TO GIVE CITY OF GEORGETOWN A MINIMUM OF TWO WEEKS NOTICE FOR ALL WATERLINE SHUT DOWNS.
- 6) WATERLINE SHUT DOWNS SHALL ONLY BE PERFORMED DURING THE MONTHS OF DECEMBER, JANUARY, AND FEBRUARY. SHUT DOWNS NOT ALLOWED FROM MARCH THROUGH NOVEMBER.

PHASE 0:

THE INTENT OF THIS PHASE IS TO CONSTRUCT A TEMPORARY DRAINAGE PIPE IN TWO STEPS (AROUND STA 2420+00) UNDER EXISTING SOUTHBOUND CONNECTION.

- 1) PLACE SIGNING AND TRAFFIC CONTROL, INCLUDING PORTABLE CONCRETE TRAFFIC BARRIER (PCTB).
- 2) INSTALL EROSION CONTROL MEASURES.
- 3) CUT EXISTING PAVEMENT AND INSTALL PIPE IN TWO STEPS, BEGINNING DOWNSTREAM. RESTORE PAVEMENT. REFER TO TCP LAYOUT SHEET FOR DETAILS.
- 4) REGRADE DITCHES AS NEEDED TO DRAIN.

PHASE 1A:

THE INTENT OF THIS PHASE IS TO CONSTRUCT SOUTHBOUND RONALD REAGAN IN IT’S ENTIRETY, EXCEPT FOR THE FINAL DRIVING SURFACE AND THE RECONSTRUCTION OF PAVEMENT AT LOCATIONS WHERE ACCESS NEEDS TO BE MAINTAINED. REQUIRED WATER QUALITY PONDS SHALL BE CONSTRUCTED IN THIS PHASE. PERMANENT TRAFFIC SIGNALS SHALL BE CONSTRUCTED IN THIS PHASE. RIGHT TURN LANES ALONG SH 29 MAY ALSO BE CONSTRUCTED IN THIS PHASE. CONTRACTOR TO SATISFY ALL TEMPORARY TRAFFIC CONDITIONS AT SIGNALIZED INTERSECTIONS WITH PERMANENT TRAFFIC SIGNALS AND PEDESTRIAN ELEMENTS.

- 1) PLACE SIGNING AND TRAFFIC CONTROL, INCLUDING PORTABLE CONCRETE TRAFFIC BARRIER (PCTB).
- 2) INSTALL EROSION CONTROL MEASURES.
- 3) CONSTRUCT PROPOSED PAVEMENT, EXCLUDING THE FINAL DRIVING SURFACE. INCLUDE ALL SUBSURFACE WORK SUCH AS INSTALLATION OF TRAFFIC SIGNAL CONDUIT AND DRAINAGE STRUCTURES.
- 4) ADD LEVEL UP TO APPROX HALF (WEST SIDE) OF SB RONALD REAGAN, NEAR SH 29, FOR EXISTING PAVEMENT TIE IN (APPROX STA 2416+00 BL SBRR).
- 5) PLACE TOPSOIL AND SEEDING.

PHASE 1B:

THE INTENT OF THIS PHASE IS TO FINALIZE THE CONSTRUCTION OF SOUTHBOUND RONALD REAGAN AT LOCATIONS WHERE ACCESS NEEDED TO BE MAINTAINED IN THE PREVIOUS PHASE, COMPLETE PERMANENT TRAFFIC SIGNAL INSTALLATION, AND LAY THE FINAL ASPHALT DRIVING SURFACE.

- 1) ADJUST AND/OR ADD SIGNING AND TRAFFIC CONTROL, INCLUDING PCTB.
- 2) ADJUST AND/OR ADD EROSION CONTROL MEASURES.
- 3) CONSTRUCT REMAINING PORTION OF CROSS STREETS AND FIRE STATION DRIVEWAY.
- 4) COMPLETE PERMANENT TRAFFIC SIGNAL INSTALLATION.

- 5) PLACE ADDITIONAL TOPSOIL AND SEEDING AS NEEDED.
- 6) INSTALL PERMANENT SIGNING.
- 7) LAY FINAL ASPHALT DRIVING SURFACE. THIS STEP INCLUDES THE FINAL SURFACE FOR ALL PAVEMENT CONSTRUCTED IN PHASE 1A.
- 8) APPLY FINAL STRIPING TO SOUTHBOUND RONALD REAGAN.
- 9) OPEN NEWLY CONSTRUCTED SOUTHBOUND ROADWAY. TRAFFIC MAY BE REDUCED TO ONLY ONE LANE AT EXISTING PAVEMENT TIE IN. (APPROX STA 2416+00 BL SBRR).
- 10) COMPLETE LEVEL UP NEAR SH 29 (APPROX STA 2416+00 BL SBRR) FOR EXISTING PAVEMENT TIE IN AND ADD STRIPING AS NEEDED.

PHASE 2A:

THE INTENT OF THIS PHASE IS TO WIDEN EXISTING NORTHBOUND RONALD REAGAN PAVEMENT IN SEVERAL LOCATIONS, REMOVE UNUSED PAVEMENT, AND CONSTRUCT HALF OF CROSS DRAINAGE CULVERT #3. SOUTHBOUND TRAFFIC SHOULD NOW BE TRAVELING ON THE NEWLY CONSTRUCTED SOUTHBOUND ROADWAY AND THE PERMANENT TRAFFIC SIGNALS SHOULD BE IN OPERATION.

- 1) ADJUST AND/OR ADD SIGNING AND TRAFFIC CONTROL, INCLUDING PCTB.
- 2) REMOVE CENTERLINE STRIPING AS NEEDED, SEE PLANS.
- 3) ADJUST AND/OR ADD EROSION CONTROL MEASURES.
- 4) CONSTRUCT PROPOSED PAVEMENT.
- 5) OBLITERATE AND REMOVE UNUSED PAVEMENT (APPROX 2416+00 TO 2426+00 BL SBRR)
- 6) CONSTRUCT HALF OF THE CROSS DRAINAGE CULVERT #3. (APPROX 494+75 CL RREAGAN_EXIST).
- 7) REGRADE SIDE SLOPES AND DITCHES AS NEEDED.
- 8) PLACE TOPSOIL AND SEEDING AS NEEDED.

PHASE 2B:

THE INTENT OF THIS PHASE IS TO COMPLETE THE ADDITION OF CROSS DRAINAGE CULVERT #3.

- 1) ADJUST AND/OR ADD SIGNING AND TRAFFIC CONTROL, INCLUDING PCTB.
- 2) ADJUST AND/OR ADD EROSION CONTROL MEASURES.
- 3) CONSTRUCT REMAINING PORTION OF CROSS DRAINAGE CULVERT #3.
- 4) REGRADE SIDE SLOPES AND DITCHES AS NEEDED.
- 5) PLACE TOPSOIL AND SEEDING AS NEEDED.

PHASE 3:

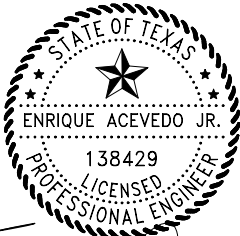
THE INTENT OF THIS PHASE IS TO OVERLAY AND STRIPE NORTHBOUND RONALD REAGAN.

- 1) ADJUST AND/OR ADD SIGNING AND TRAFFIC CONTROL.
- 2) PERFORM ANY FINAL GRADING OF SIDE SLOPES AND DITCHES.
- 3) OVERLAY NORTHBOUND ROADWAY.
- 4) STRIPE NORTHBOUND ROADWAY.

PHASE 4:

THE INTENT OF THIS PHASE IS TO FINALIZE AND CLOSE OUT THE PROJECT.

- 1) CONTRACTOR TO ADDRESS ANY FINAL PUNCH LIST ITEMS.
- 2) PERFORM ANY FINAL CLEAN UP WHICH MAY STILL BE NEEDED.
- 3) ONCE VEGETATION HAS BEEN ESTABLISHED TO THE SATISFACTION OF THE ENGINEER, REMOVE ANY REMAINING TEMPORARY EROSION CONTROL DEVICES.
- 4) REMOVE ALL REMAINING SIGNS, TRAFFIC CONTROL AND BARRICADES, IF ANY.



2/20/2025

Enrique Acevedo

1	RFI #42	ATG	2/18/25
NO.	REVISION	BY	DATE



RONALD REAGAN BLVD.

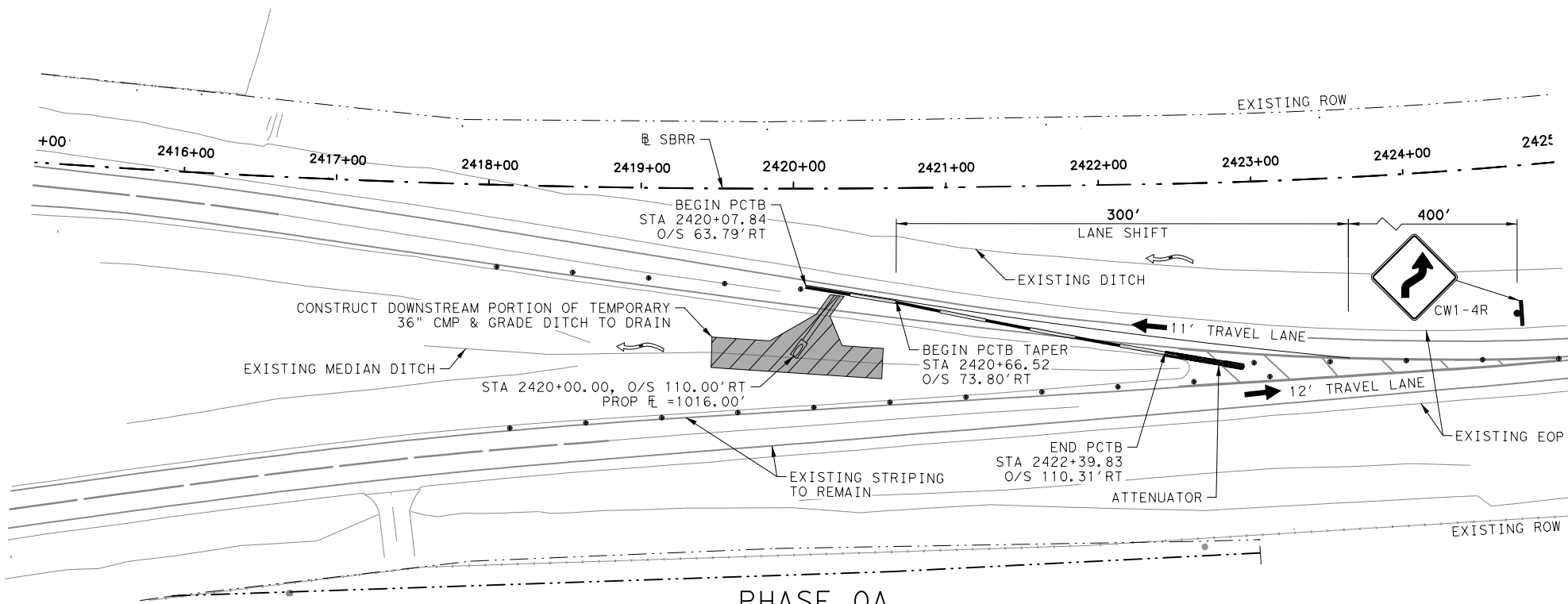
TRAFFIC CONTROL PLAN
CONSTRUCTION PHASE NARRATIVE

Designed:	ATG	FED. RD. DIV. NO.	X	STATE	TEXAS	FEDERAL AID PROJECT NO.	SEE TITLE SHEET	HIGHWAY NO.	TITLE SHEET
Checked:	ATG	DIST.		COUNTY	WILLIAMSON	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
Drawn:	ATG								40
Checked:	ATG								

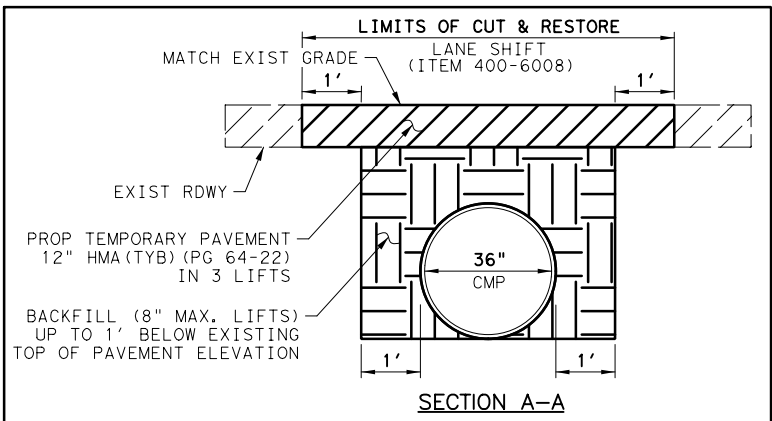
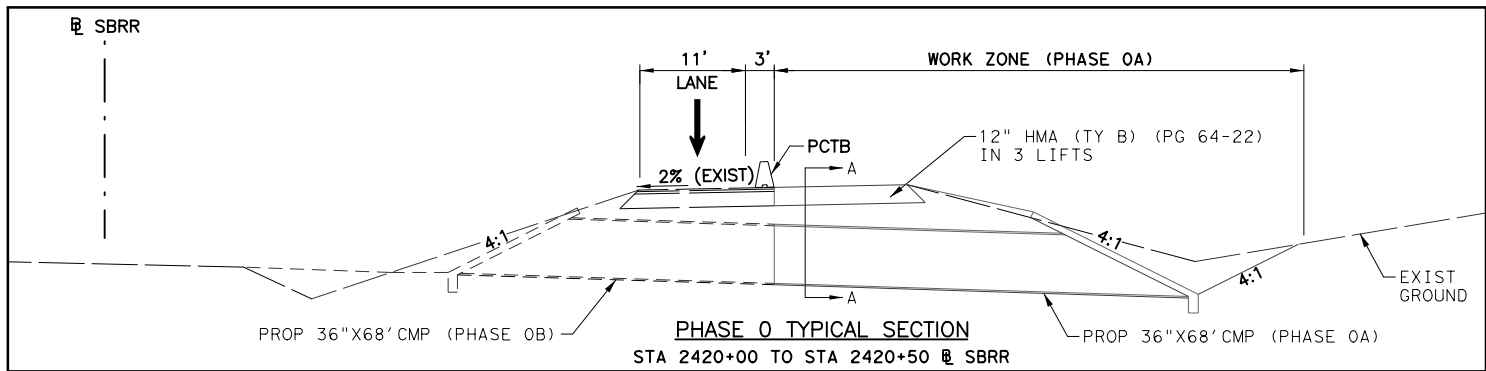
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2/20/2025 12:57:35 PM EAcaveado

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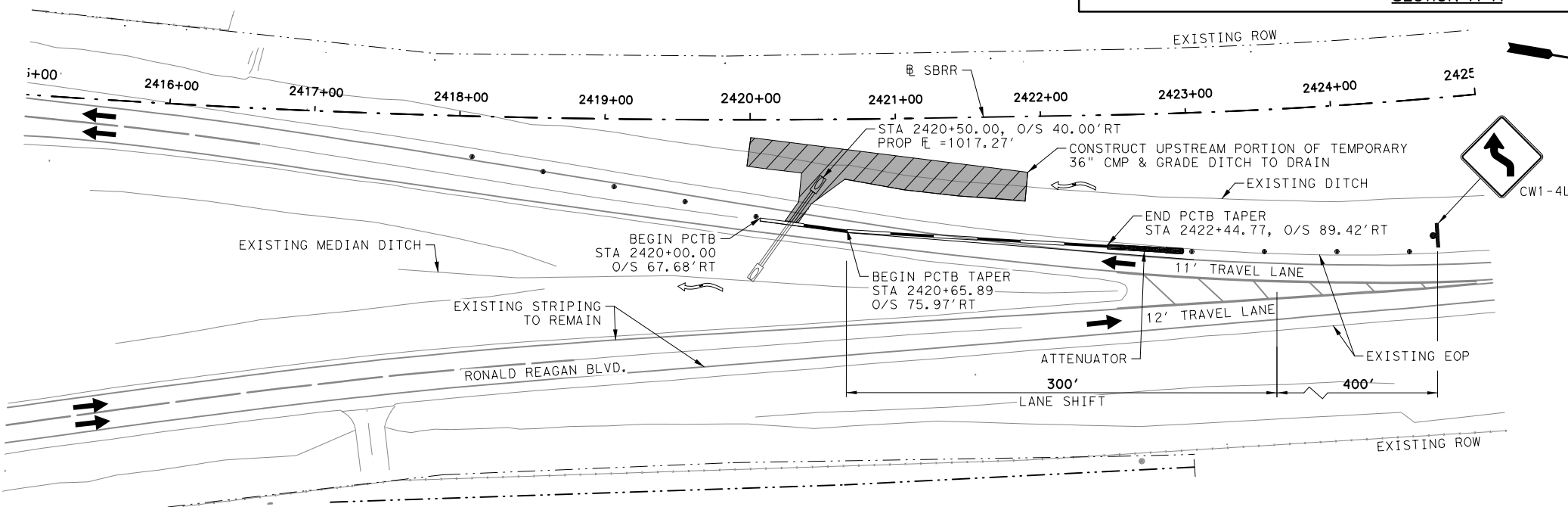


PHASE 0A

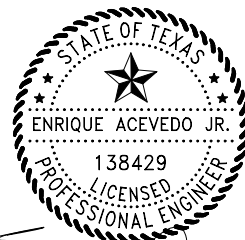


NOTE:

1. CONTRACTOR TO MAINTAIN EXISTING TRAFFIC CONTROL DEVICES DURING THIS PHASE TO SATISFY ALL TEMPORARY TRAFFIC CONTROL NEEDS. ANY EXISTING TRAFFIC CONTROL RELOCATION EFFORT TO BE SUBSIDIARY TO ITEM 502 6001.



PHASE 0B



2/20/2025

Enrique Acevedo

1	RFI #42	ATG	2/18/25
NO.	REVISION	BY	DATE



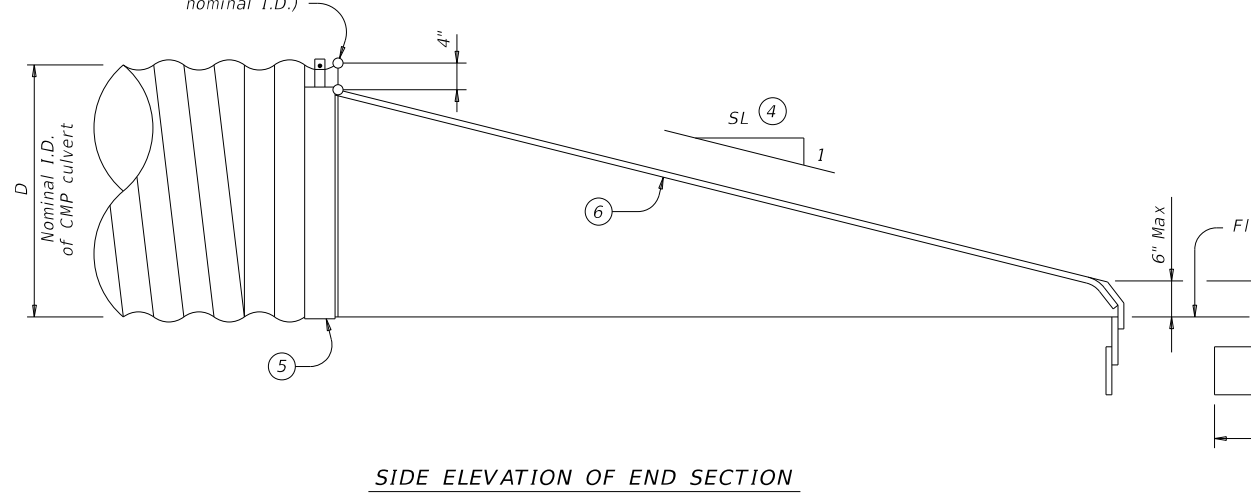
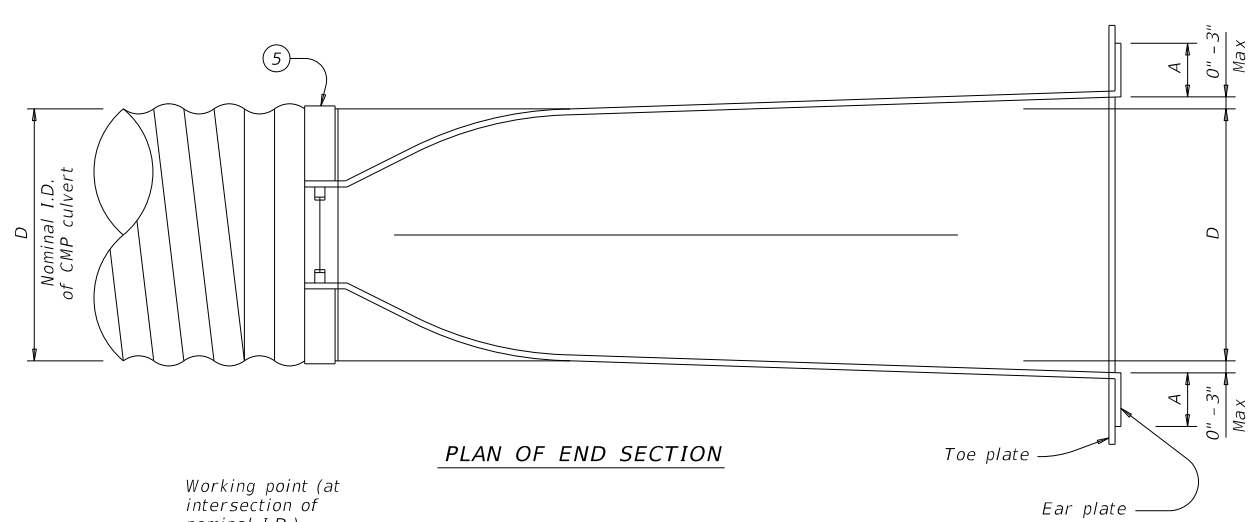
RONALD REAGAN BLVD.

TCP LAYOUT SHEET
PHASE 0

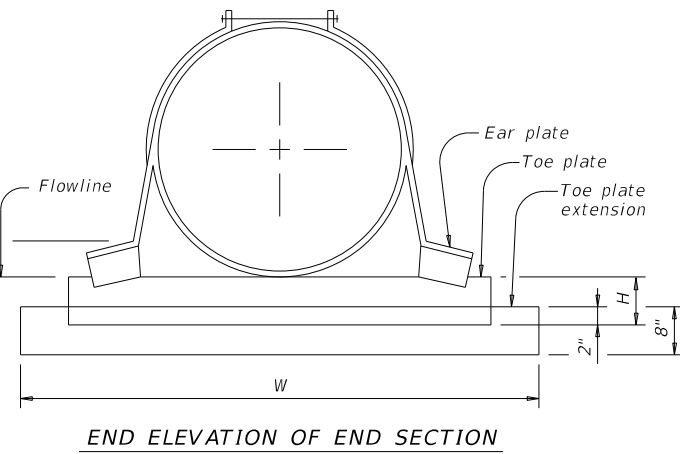
Designed:	ATG	FED. RD. DIST. NO.	STATE	FEDERAL AID PROJECT NO.	HIGHWAY NO.
Checked:	ATG	X	TEXAS	SEE TITLE SHEET	TITLE SHEET
Drawn:	ATG	DIST.	COUNTY	CONTROL NO.	SECTION NO.
Checked:	ATG		WILLIAMSON		44A

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DATE:
FILE:

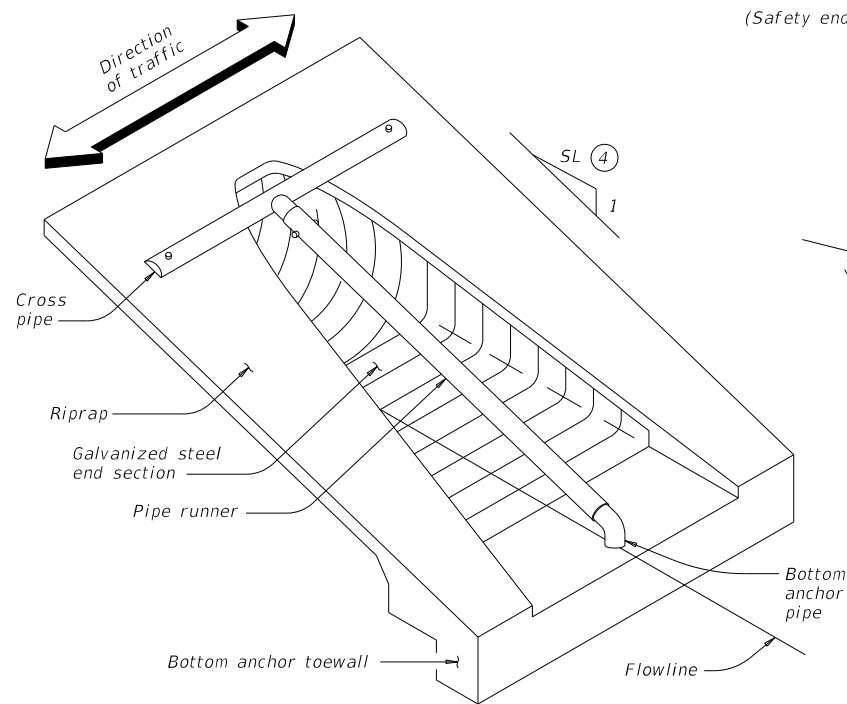


- 1 Provide size of pipe runner as shown in the tables. Cross pipe is the same size as the pipe runner. Cross pipe stub out and bottom anchor pipe are the next smaller size pipe as shown in the Standard Pipe Sizes and Max Pipe Runner Length table.
- 2 Values shown are minimum requirements.
- 3 Provide all 3-piece apron sections with 12 gage sides and 10 gage center panels.
- 4 Recommended values of slope are 3:1, 4:1, and 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.
- 5 Connection between corrugated metal pipe (CMP) culvert and galvanized prefabricated end section may be with strap and bolt as shown or other combinations of threaded rods and/or coupling bands.
- 6 Reinforce upper edge of prefabricated end section with minimum 3/8" dia smooth or deformed bar (pre-galvanized).
- 7 Riprap placed beyond the limits shown will be paid as concrete riprap in accordance with Item 432, "Riprap."

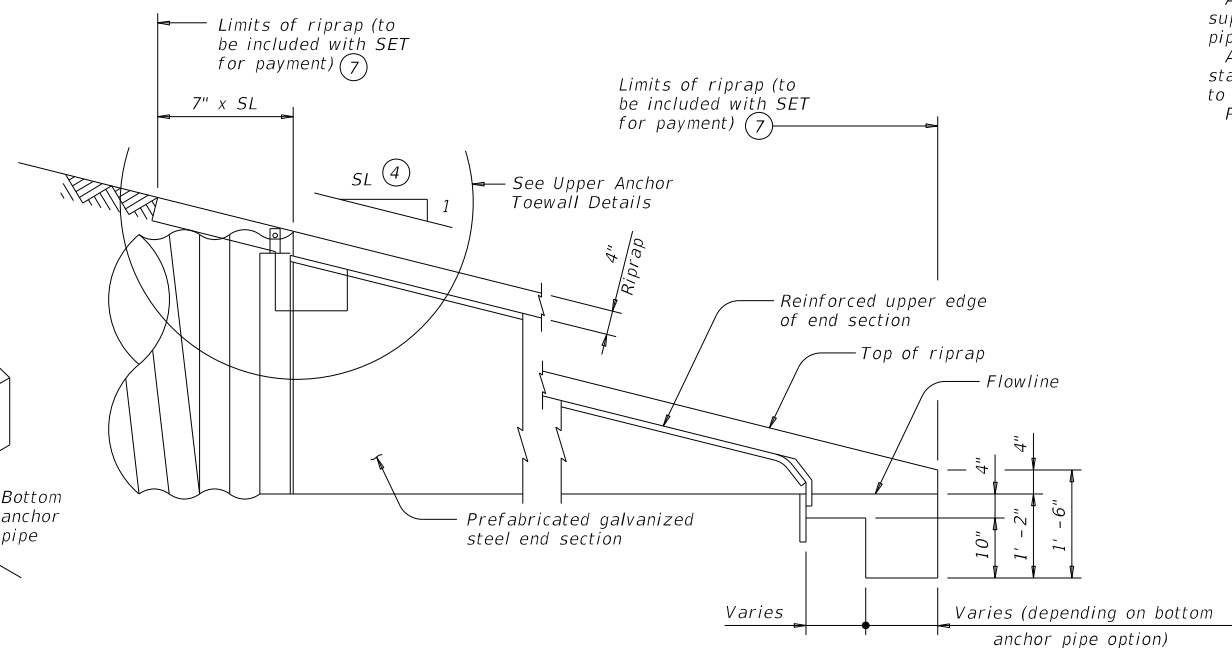


PREFABRICATED GALVANIZED STEEL END SECTION DETAILS

(Safety end treatment and riprap not shown for clarity.)



ISOMETRIC VIEW OF
TYPICAL INSTALLATION



SIDE ELEVATION OF
CAST-IN-PLACE CONCRETE

(Pipe runners are not shown for clarity.)

CROSS PIPE LENGTHS, PIPE RUNNER LENGTHS, AND REQUIRED PIPE SIZES^①

D (Nominal) (Culvert I.D.)	Cross Pipe Length	3:1 Side Slope		4:1 Side Slope		6:1 Side Slope	
		Pipe Runner Length	Pipe Runner Size	Pipe Runner Length	Pipe Runner Size	Pipe Runner Length	Pipe Runner Size
≤ 24"	N/A	N/A	N/A	N/A	N/A	N/A	N/A
30"	3' - 11"	5' - 0"	3.500 x 0.216	7' - 1"	3.500 x 0.216	11' - 3"	4.500 x 0.237
36"	4' - 5"	6' - 7"	3.500 x 0.216	9' - 2"	3.500 x 0.216	14' - 4"	4.500 x 0.237
42"	4' - 11"	8' - 2"	3.500 x 0.216	11' - 2"	4.500 x 0.237	17' - 4"	4.500 x 0.237
48"	5' - 5"	9' - 9"	3.500 x 0.216	13' - 3"	4.500 x 0.237	20' - 4"	5.563 x 0.258
54"	5' - 11"	11' - 3"	4.500 x 0.237	15' - 4"	4.500 x 0.237	23' - 5"	5.563 x 0.258
60"	6' - 5"	12' - 10"	4.500 x 0.237	17' - 4"	4.500 x 0.237	26' - 5"	5.563 x 0.258

PREFABRICATED END SECTION INFORMATION

D (Nominal) (Culvert I.D.)	Pipe Runner Required	H ②	A ②	W ②	Gage ②
≤ 24"	No	6"	9"	D + 24"	16
30"	Skew > 15°	9"	12"	D + 32"	14
36"	All skews	9"	12"	D + 32"	14
≥ 42"	All skews	12"	16"	D + 40"	12/10 ③

STANDARD PIPE SIZES AND MAX PIPE RUNNER LENGTH^①

HSS Size	STD Size	Max Pipe Runner Length
2.375 x 0.154	2"	N/A
3.500 x 0.216	3"	10' - 0"
4.500 x 0.237	4"	19' - 8"
5.563 x 0.258	5"	34' - 2"

MATERIAL NOTES:

Provide pipe runners, cross pipes, and anchor pipes conforming to ASTM A1085, A500 Gr B, A53 (Type E or S, Gr B), or API 5LX52.
Provide ASTM A307 bolts and nuts.
Galvanize all steel components, except reinforcement, after fabrication. Repair galvanizing damaged during transport or construction in accordance with the specification.
Toe plate extensions are required only when shown elsewhere in the plans.
Concrete riprap is required only when pipe runners are required, unless otherwise shown in the plans. Provide concrete riprap in accordance with Item 432, "Riprap." Use Bottom Anchor Toewall Option B1 when an alternate end section with pre-attached pipe runners is supplied.
Synthetic fibers listed on the "Fibers for Concrete" Material Producer List (MPL) may be used in lieu of reinforcing steel in concrete riprap unless noted otherwise.

GENERAL NOTES:

Safety end treatments (SET) 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.
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.
Alternate styles of end sections, including those with pre-attached pipe runners, may be supplied. Alternate styles must meet all of the following: design values shown in tables for pipe runner size; H, A, W, and gage for end section; and material requirements noted.
All pipe runners, calculations, and dimensions are based on the End Section shown on this standard. Alternate styles of end sections will require that appropriate adjustments be made to the values presented on this standard.
Payment for riprap and toewall is included in price bid for each safety end treatment.

SHEET 1 OF 2

**Texas Department of Transportation**

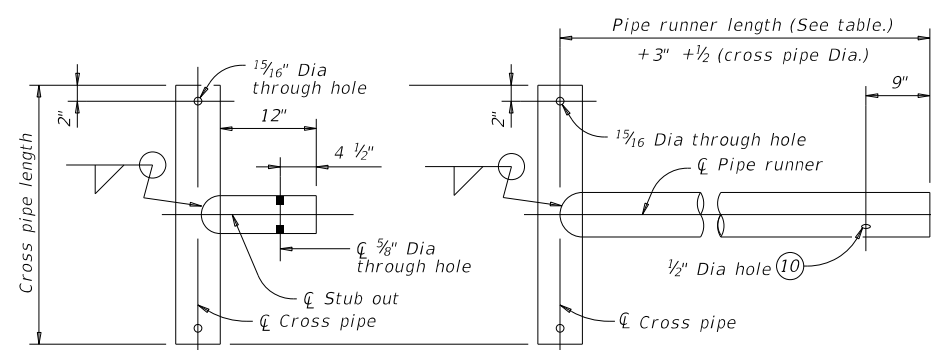
**Bridge
Division
Standard**

**PREFABRICATED GALVANIZED
STEEL END SECTION
SAFETY END TREATMENT
FOR 12" TO 60" DIA CMP CULVERTS
TYPE II ~ CROSS DRAINAGE
GS-ES-CD**

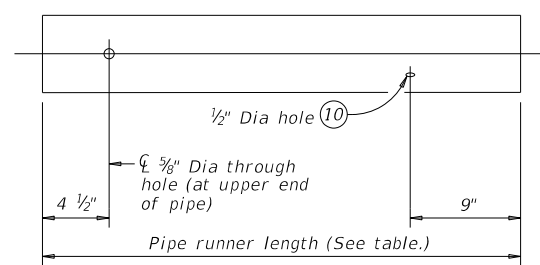
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©TxDOT February 2020	CONT	SECT	JOB	HIGHWAY
REVISIONS				
	DIST		COUNTY	SHEET NO.
				108A

DISCLAIMER: The use of this standard is governed by the "Texas Engineering Practice Act." No warranty of any kind is made by TxDOT for any purpose whatsoever. TxDOT assumes no responsibility for the conversion of this standard to other formats or for incorrect results or damages resulting from its use.

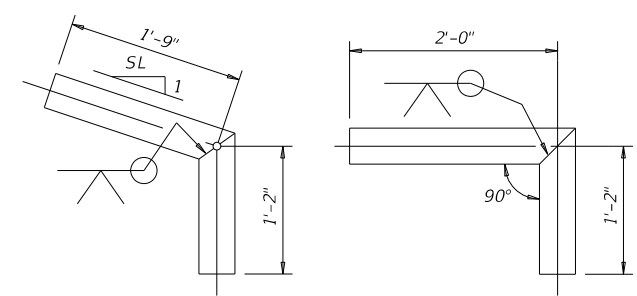
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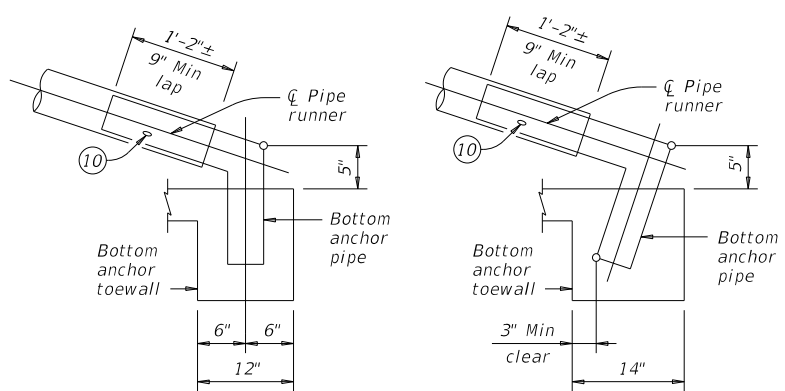
OPTION A1
OPTION A2
CROSS PIPE AND CONNECTIONS DETAILS



PIPE RUNNER DETAILS

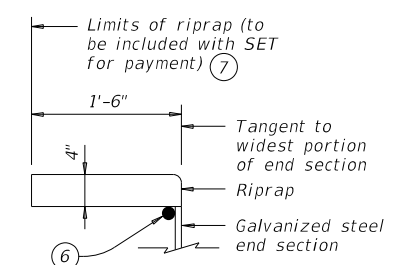


OPTION B1
OPTION B2
BOTTOM ANCHOR PIPE DETAILS

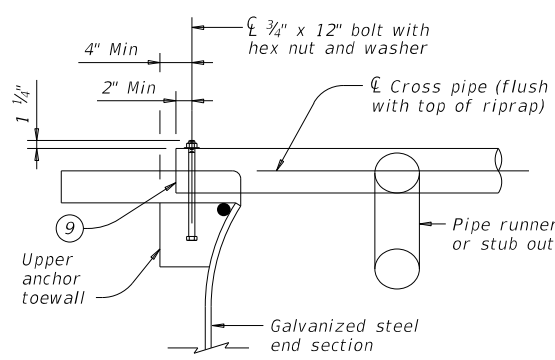


OPTION B1
OPTION B2
BOTTOM ANCHOR TOEWALL DETAILS

(End section and riprap are not shown for clarity.)

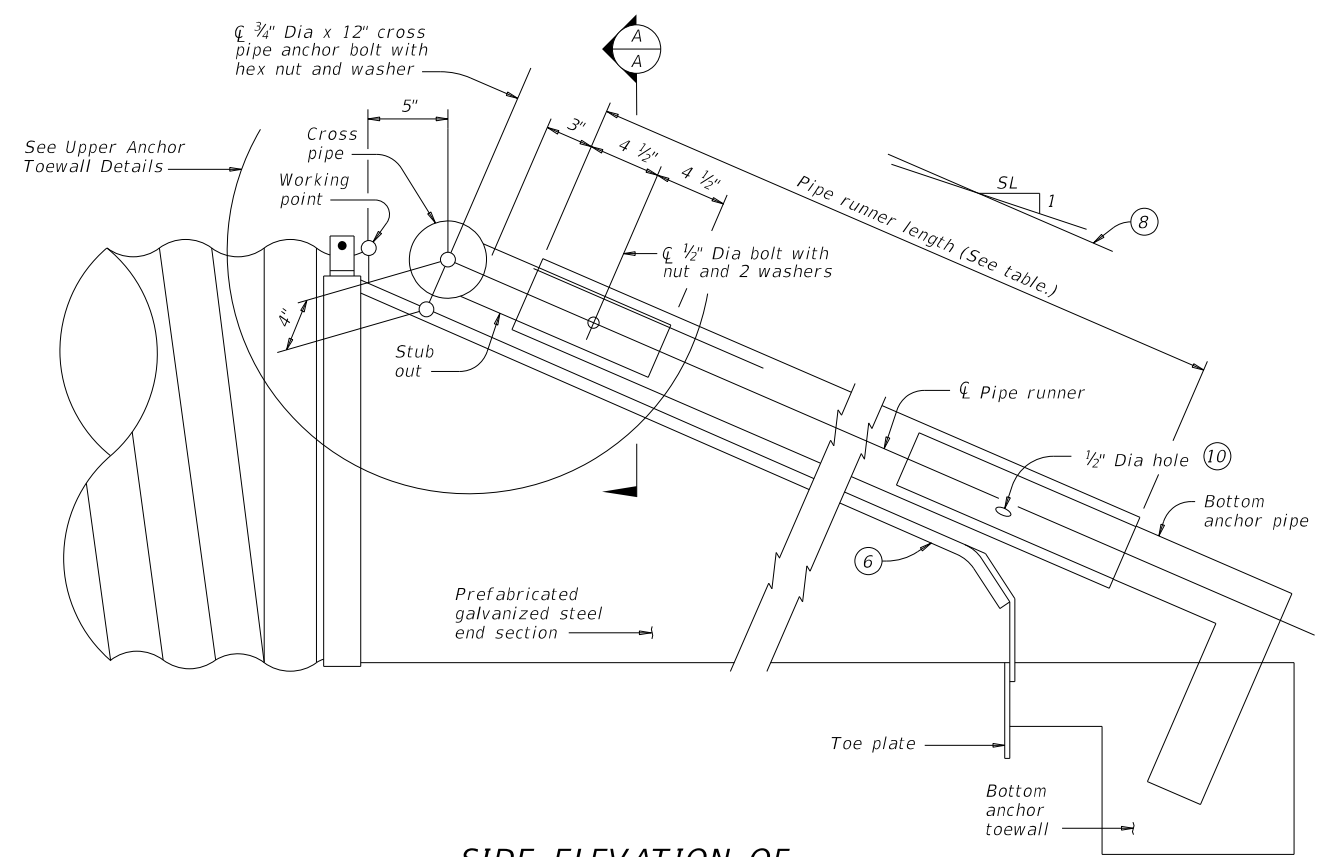


SHOWING TYPICAL RIPRAP



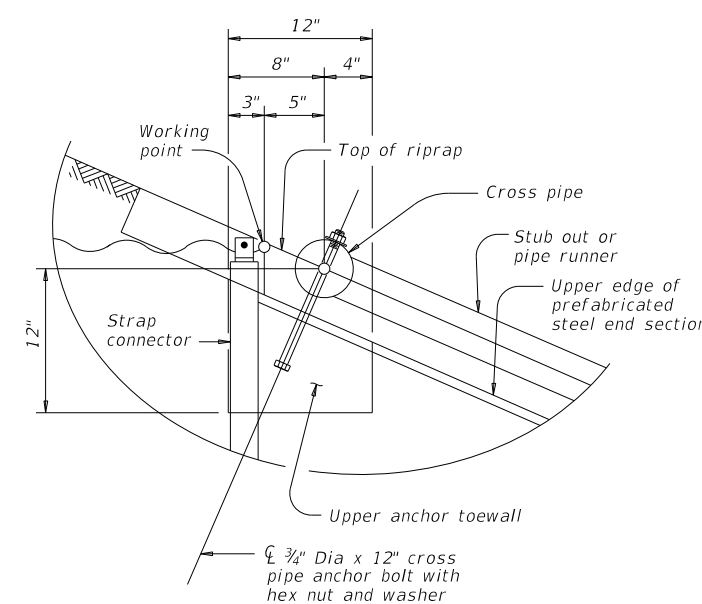
SHOWING CROSS PIPE AND UPPER ANCHOR TOEWALL

SECTION A-A



SIDE ELEVATION OF PIPE RUNNER INSTALLATION

(Showing pipe runner with Cross Pipe Connection Option A1 and Bottom Anchor Pipe Option B2. Riprap not shown for clarity.)



UPPER ANCHOR TOEWALL DETAILS

- 6 Reinforce upper edge of prefabricated end section with minimum 3/8" dia smooth or deformed bar (pre-galvanized).
- 7 Riprap placed beyond the limits shown will be paid as concrete riprap in accordance with Item 432, "Riprap."
- 8 Note that actual slope of pipe runner may vary slightly from side slope of riprap and upper edge of prefabricated end section.
- 9 Take care of ensure that riprap concrete does not flow into the crosspipe so as to permit disassembly of the bolted connection to allow cleanout access.
- 10 After installation, inspect the 3/8" hole to ensure that the lap of the pipe runner with the bottom anchor pipe is adequate.
- 11 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.
- 12 Quantities shown are for one end of one corrugated metal pipe (CMP) culvert. For multiple pipe culverts quantities will need to be adjusted. Riprap quantities are for Contractor's information only.

ESTIMATED CONCRETE RIPRAP QUANTITIES (CY)

Nominal Culvert I.D.	3:1 Side Slope	4:1 Side Slope	6:1 Side Slope
12"	0.5	0.6	0.9
15"	0.6	0.7	1.0
18"	0.6	0.8	1.1
21"	0.7	0.8	1.2
24"	0.7	0.9	1.3
27"	0.8	1.0	1.4
30"	0.9	1.1	1.5
33"	0.9	1.1	1.6
36"	1.0	1.2	1.7
42"	1.1	1.4	1.9
48"	1.2	1.5	2.1
54"	1.3	1.7	2.3
60"	1.5	1.8	2.6

SHEET 2 OF 2

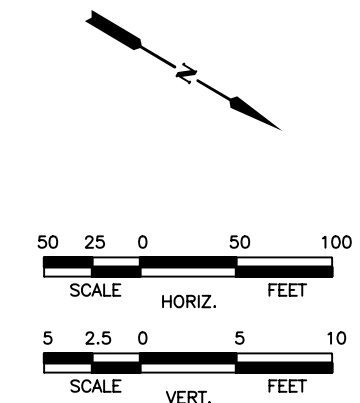
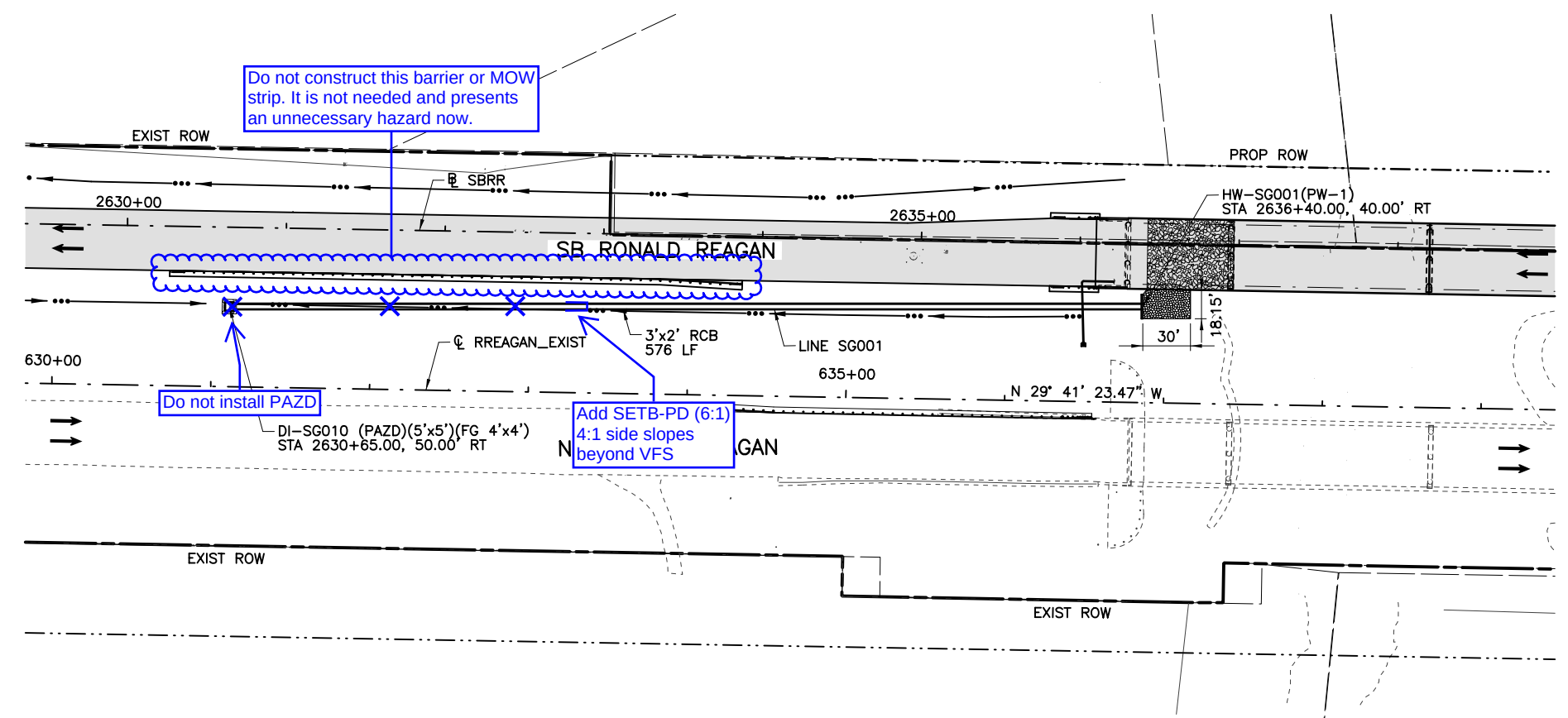
Bridge Division Standard

PREFABRICATED GALVANIZED STEEL END SECTION SAFETY END TREATMENT FOR 12" TO 60" DIA CMP CULVERTS TYPE II ~ CROSS DRAINAGE GS-ES-CD

FILE:	DN: TxDOT	CK: TxDOT	DW: JRP	CK: GAF
©TxDOT February 2020	CONT	SECT	JOB	HIGHWAY
REVISIONS	DIST	COUNTY	SHEET NO.	
			108B	

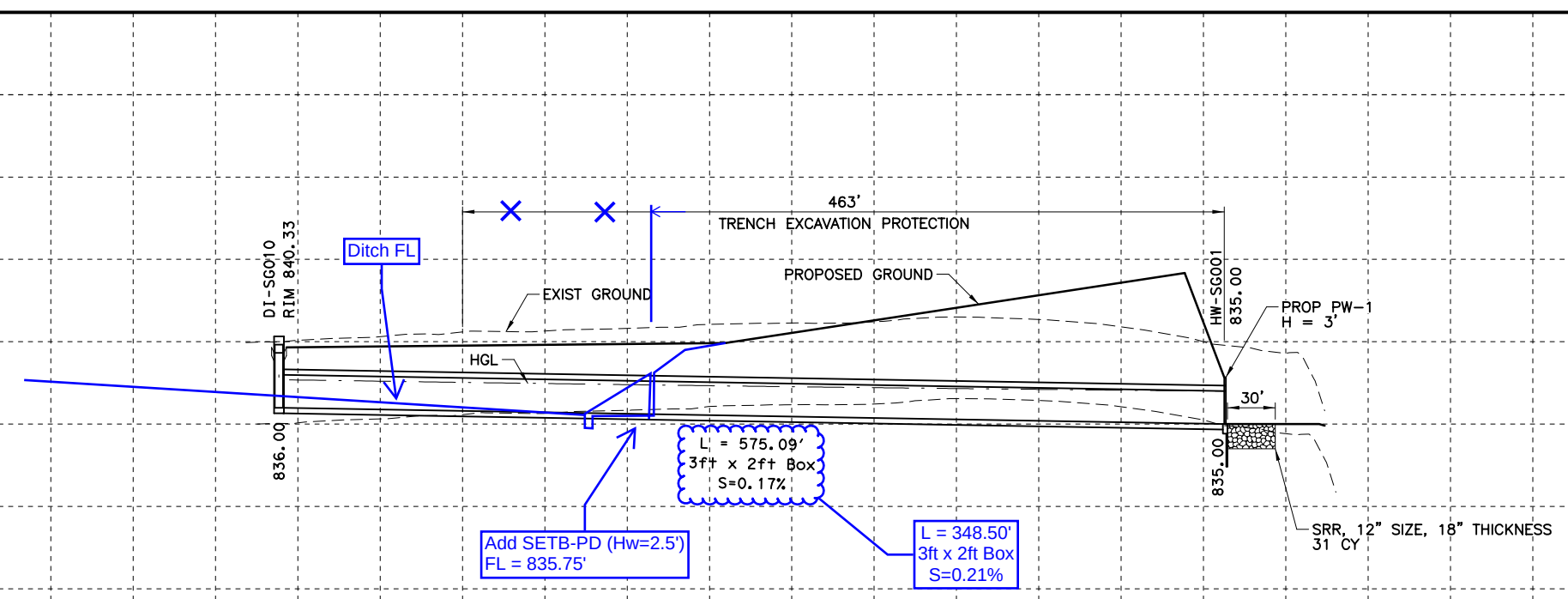
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- NOTES:
1. ALL STATIONS AND OFFSETS ARE BASED OFF OF SBRR UNLESS OTHERWISE NOTED.
 2. SEE ROADWAY PLAN AND PROFILE SHEETS FOR DITCH LIMITS AND DETAILS.
 3. ALL LOCATIONS FOR CURB INLETS ARE SHOWN AT THE FACE OF CURB
 4. ALL LOCATIONS FOR DITCH INLETS AND MANHOLES ARE SHOWN TO THE CENTER POINT OF HTE INLET BOX OR MANHOLE STACK, UNLESS OTHERWISE NOTED.
 5. ALL JUNCTIONS (WYES, TEES, BENDS) SHALL BE SUBSIDIARY TO PERTINENT ITEM UNLESS OTHERWISE NOTED.
 6. GEOPAK DRAINAGE WAS USED FOR STORM SEWER COMPUTATIONS.
 7. ALL PIPE SHALL BE CLASS III UNLESS NOTED OTHERWISE

Cross sections show FG of ditch to be +/-837.07
With rim elevation of 840.33 minus 1.25' of opening and box lid
that puts FL IN at 839.08, 2ft above the ditch FL.



NO.	REVISION	BY	DATE

RONALD REAGAN BLVD.

STORM SEWER PLAN & PROFILE
NORTH FORK SAN GABRIEL RIVER MEDIAN

Designed:	FED. RD. DIV. NO.	STATE	PROJECT NO.	HIGHWAY NO.
Checked:	X	TEXAS		
Drawn:	DIST.	COUNTY	CONTROL NO.	SECTION NO.
Checked:		WILLIAMSON		

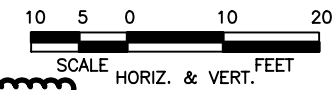
SHEET 3 OF 4

303

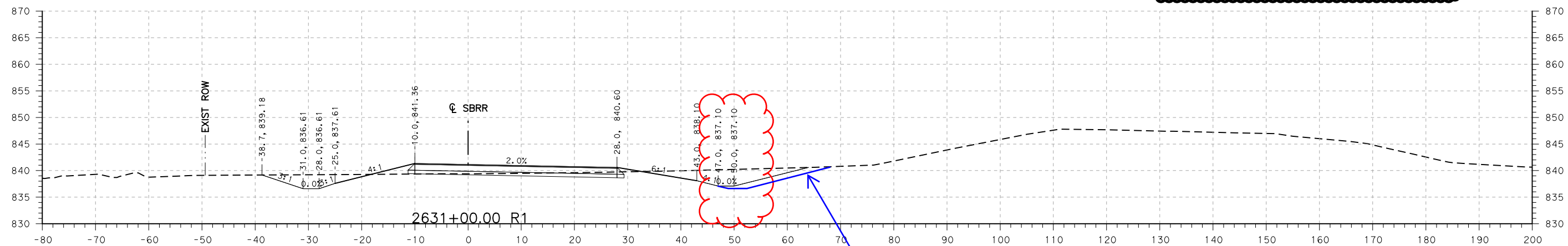


Andrea Klocinski
06/10/2024

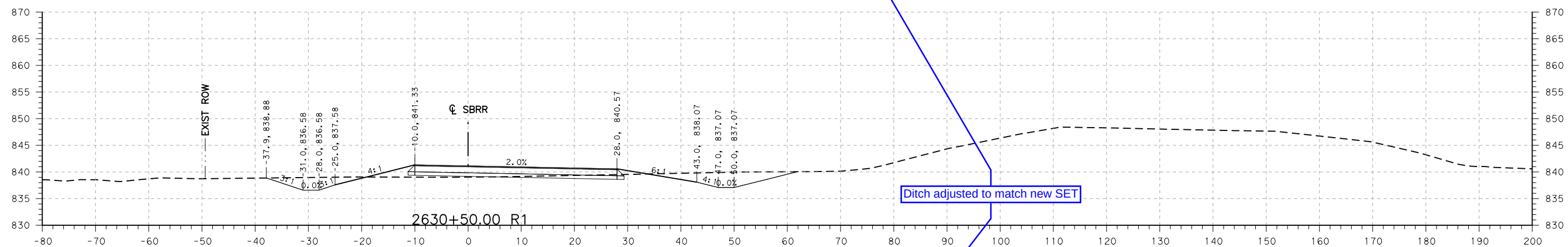
STA. 2630+00.00 R1 TO STA. 2631+00.00 R1



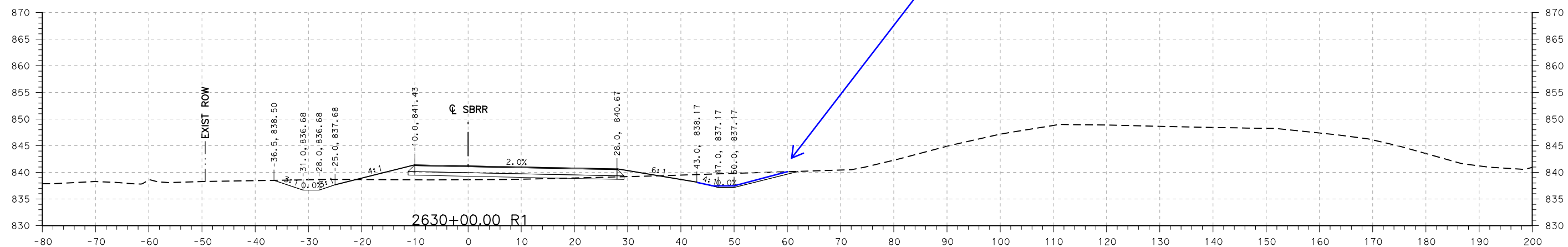
Contractor's notes are in **RED**.
Engineer's notes are in **BLUE**.



Ditch FL each side of box



Ditch adjusted to match new SET



TEXAS REGISTERED ENGINEERING FIRM F-1741



williamson
COUNTY
1848

RONALD REAGAN BLVD
RONALD REAGAN CROSS SECTIONS

SHEET 194 OF 234

Designed: —	FED. RD. DIV. NO.	STATE	FEDERAL AID PROJECT NO.	HIGHWAY NO.
Checked: —	X	TEXAS		
Drawn: —	DIST.	COUNTY	CONTROL NO.	SECTION NO.
Checked: —	AUS	WILLIAMSON		
				SHEET NO. 875

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SUMMARY OF ROADWAY ITEMS		100	110	132	132	247	260	260	310	316	316	351	354	530	530	3076	3076	3076	3076
SHEET NO.	LOCATION	6002	6001	6003	6047	6044	6002	6017	6001	6005	6242	6002	6045	6004	6005	6001	6040	6038	6066
		PREPARING ROW	EXCAVATION (ROADWAY)	EMBANKMENT (FINAL)(ORD COMP)(TY B)	EMBANKMENT (FINAL)(ORD COMP)(TY C1)	FL BS (CMP IN PLC)(TY A GR 4)(FINAL POS)	LIME (HYDRATED LIME (SLURRY))	LIME TRT (MIX EXST MATL & NEW BASE) (8")	PRIME COAT (MULTI OPTION)	ASPH (TIER II)	AGGR(TY-PD GR-5 SAC-B)	FLEXIBLE PAVEMENT STRUCTURE REPAIR(6")	PLANE ASPH CONC PAV (2")	DRIVEWAYS (CONC)	DRIVEWAYS (ACP)	D-GR HMA TY-B PG64-22	D-GR HMA TY-D PG70-22	D-GR HMA TY-D PG64-22 (LEVEL-UP)	TACK COAT
		STA	CY	CY	CY	CY	TON	SY	GAL	GAL	CY	SY	SY	SY	SY	TON	TON	TON	GAL
	RONALD REAGAN BLVD.																		
1 OF 28	BEGIN PROJECT TO STA 2413+00	4.58	18	19					0	0	0		1249				692		381
2 OF 28	STA 2413+00 TO STA 2423+00	10.00	4792	518	2821	1255			552	883	18					1315	9938	35	693
3 OF 28	STA 2423+00 TO STA 2433+00	10.00	6549	2824	7266	4490			826	1321	28		544		99	2810	1278	420	961
4 OF 28	STA 2433+00 TO STA 2443+00	10.00	3336	3832	5894	1844	22	1238	1084	1734	36				119	6256	1117		779
5 OF 28	STA 2443+00 TO STA 2453+00	10.00	6293	5886		1293	71	3970	757	1212	25					1819	932		674
6 OF 28	STA 2453+00 TO STA 2463+00	10.00	7519	99		1508	83	4631	883	1412	29				390	2119	1115		777
7 OF 28	STA 2463+00 TO STA 2473+00	10.00	3127	3389	1152	3104	105	5841	1129	1806	38				136	5187	1407		994
8 OF 28	STA 2473+00 TO STA 2483+00	10.00	10257	551	6191	1799	42	2326	881	1410	29					2461	1010		706
9 OF 28	STA 2483+00 TO STA 2493+00	10.00	8782	1110	6487	2157	5	255	884	1414	29				62	2920	1057		738
10 OF 28	STA 2493+00 TO STA 2503+00	10.00	4368	5469	5416	1383	32	1787	809	1294	27					1877	971		683
11 OF 28	STA 2503+00 TO STA 2513+00	10.00	4397	568	8355	2484	79	4408	1044	1670	35			229		3516	1347		983
12 OF 28	STA 2513+00 TO STA 2523+00	10.00	5164	4110	1792	1613	89	4942	948	1516	32					2283	1070		752
13 OF 28	STA 2523+00 TO STA 2533+00	10.00	2194	462		587	23	1279	246	394	8		861			825	408		224
14 OF 28	STA 2533+00 TO STA 2543+00	10.00	18671	4540		1846	58	3249	884	1414	29				255	2587	1016		709
15 OF 28	STA 2543+00 TO STA 2553+00	10.00	747	20007		1511			884	1415	29					2122	994		694
16 OF 28	STA 2553+00 TO STA 2563+00	10.00	327	8840		1222	42	2322	713	1141	24		479		190	1713	825		546
17 OF 28	STA 2563+00 TO STA 2573+00	10.00	8811	2505		4358	42	2322	1077	1723	36		482	71		6148	1213		929
18 OF 28	STA 2573+00 TO STA 2583+00	10.00	3473	2756		1978	79	4368	836	1338	28				177	2774	1022		721
19 OF 28	STA 2583+00 TO STA 2593+00	10.00	6352	2763		2552	81	4527	877	1403	29		1378			3649	1183		764
20 OF 28	STA 2593+00 TO STA 2603+00	10.00	4774	3225		1556	85	4697	912	1459	30				1012	2189	1021		712
21 OF 28	STA 2603+00 TO STA 2613+00	10.00	9568	4955		1509	84	4648	883	1413	29				1031	2120	1003		699
22 OF 28	STA 2613+00 TO STA 2623+00	10.00	8383	11834		823	29	1593	483	773	16		439			1162	727		480
23 OF 28	STA 2623+00 TO STA 2633+00	10.00	1205	9283		1313	33	1809	770	1232	26		439			1860	877		584
24 OF 28	STA 2633+00 TO STA 2643+00	10.00	1532	4440		729			426	682	14		867			1082	519		308
25 OF 28	STA 2643+00 TO STA 2653+00	10.00	2780	8993		1697			996	1593	33					2534	1065		743
26 OF 28	STA 2653+00 TO STA 2663+00	10.00	7544	1713		1763	12	683	989	1583	33					2604	1074		749
27 OF 28	STA 2663+00 TO STA 2673+00	10.00	1786	2051		2026	95	5287	1014	1623	34				228	3162	1187		972
28 OF 28	STA 2673+00 TO END PROJECT	8.60	1873	1177		830	25	1367	263	420	9		249		346	1552	662		462
	*MISCELLANEOUS REPAIR											10000							
	RONALD REAGAN SUBTOTAL	273	144622	117919	45374	49230	1216	67547	22050	35280	735	10000	6989	299	4045	70645	36730	455	19414

* OBSERVER TO IDENTIFY PAVEMENT REPAIR LOCATIONS PRIOR TO FINAL OVERLAY ON EXISTING PAVEMENT

SUMMARY OF ROADWAY ITEMS															#	#	#	#		
SHEET NO.	LOCATION	432 6002	432 6022	432 6024	432 6031	432 6045	540 6001	540 6005	540 6006	540 6016	540 6018	540 6020	544 6001	545 6019	552 6003	552 6004	552 6005	552 6006	560 6007	
		RIPRAP (CONC)(5 IN)	RIPRAP (STONE COMMON)(DR Y)(6 IN)	RIPRAP (STONE COMMON)(DR Y)(12 IN)	RIPRAP (STONE PROTECTION) (12 IN)	RIPRAP (MOW STRIP)(4 IN)	MTL W-BEAM GD FEN (TIM POST)	TERMINAL ANCHOR SECTION	MTL BEAM GD FEN TRANS (THRIE-BEA M)	DOWNSTREAM ANCHOR TERMINAL SECTION	MTL BM GD FEN TRANS (NON - SYM)	MTL W - BEAM GD FEN (LOW FILL CULVERT)	GUARDRAIL END TREATMENT (INSTALL)	CRASH CUSH ATTEN (INSTL)(S)(N (TL3)	WIRE FENCE (TY C)	WIRE FENCE (TY D)	GATE (TY 1)	GATE (TY 2)	MAILBOX INSTALL-S (WC-POST) TY 3	
		CY	CY	CY	CY	CY	LF	EA	EA	EA	EA	EA	EA	EA	EA	LF	LF	EA	EA	EA
	RONALD REAGAN BLVD.																			
1 OF 28	BEGIN PROJECT TO STA 2413+00																			
2 OF 28	STA 2413+00 TO STA 2423+00																			
3 OF 28	STA 2423+00 TO STA 2433+00																			
4 OF 28	STA 2433+00 TO STA 2443+00					6	75						1							
5 OF 28	STA 2443+00 TO STA 2453+00	73	338			30	475		2	3	2		2							
6 OF 28	STA 2453+00 TO STA 2463+00																			
7 OF 28	STA 2463+00 TO STA 2473+00	46	50																	
8 OF 28	STA 2473+00 TO STA 2483+00																			
9 OF 28	STA 2483+00 TO STA 2493+00					9	66						2						1	
10 OF 28	STA 2493+00 TO STA 2503+00					37	159		2	4	2	100	2							
11 OF 28	STA 2503+00 TO STA 2513+00																			
12 OF 28	STA 2513+00 TO STA 2523+00					10	145			2	2		1							
13 OF 28	STA 2523+00 TO STA 2533+00					32	580		3	1	2		2							
14 OF 28	STA 2533+00 TO STA 2543+00	1	56			1														
15 OF 28	STA 2543+00 TO STA 2553+00																			
16 OF 28	STA 2553+00 TO STA 2563+00		18			13	200		1	2	2		1	1						
17 OF 28	STA 2563+00 TO STA 2573+00					17	238	2	2				1							
18 OF 28	STA 2573+00 TO STA 2583+00	34		130		18	323			2	2		1							
19 OF 28	STA 2583+00 TO STA 2593+00	86		206		20	240		3				2							
20 OF 28	STA 2593+00 TO STA 2603+00																			
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22 OF 28	STA 2613+00 TO STA 2623+00		101			18	300		1	2	2		1							
23 OF 28	STA 2623+00 TO STA 2633+00	10				17	225	5	2	5	2		2	5						
24 OF 28	STA 2633+00 TO STA 2643+00		90	99		25	361		3	2	2		2	2						
25 OF 28	STA 2643+00 TO STA 2653+00	27				23	365			1			2							
26 OF 28	STA 2653+00 TO STA 2663+00	151				33	687						1							
27 OF 28	STA 2663+00 TO STA 2673+00					7	113						1							
28 OF 28	STA 2673+00 TO END PROJECT																			
	*MISCELLANEOUS REPAIR														5000	5000	2	2		
	RONALD REAGAN SUBTOTAL	428	563	426	99	316	4552	5	2	19	14	100	24	5	1	5000	5000	2	2	1

PLACEMENT OF FENCE AND GATES TO BE DETERMINED IN THE FIELD BY OBSERVER

5	RFI 74 - MBGF REMOVAL	ANK	07/17/25
5	RFI 44 - MBGF TRANS	ANK	1/31/25
5	CULVERT ADJUSTED FOR GRADING	CAS	1/22/25
5	RFI 33 - RIPRAP UPDATES	ANK	12/20/24
5	RFI 22 - BRIDGE DRAIN RIPRAP	BAM	11/14/24

NO.	REVISION				BY	DATE							
 WILCO TEXAS  CP&Y an STV Company													
RONALD REAGAN BLVD. SUMMARY OF ROADWAY ITEMS													
Designed:	ANK	FED. RD. DIV. NO.	X	STATE	TEXAS	PROJECT NO.		HIGHWAY NO.					
Checked:	ANK												
Drawn:	ANK	DIST.		COUNTY		CONTROL NO.		SECTION NO.		JOB NO.		SHEET NO.	
Checked:	ANK			WILLIAMSON									21

7/25/2025 5:56:47 PM McConnBA cpybw_ANSIB.tbl cpypdf_ANSIB.pltcfq pw:\\stvw-sw-pw.bentley.com:stvw-sw-pw-01\Documents\Active Projects\WLSM1900559.00\8.00 Plans and Drawings\8.30 Cut Sheets\8.3.02 Summaries\1900559_SUM_DRAINAGE_01.dgn

SUMMARY OF DRAINAGE ITEMS																					
LOCATION	401	402	432	462	462	464	464	464	464	464	465	465	465	465	465	465	508S	466	467	467	467
	6001	6001	6031	6001	6006	6003	6005	6007	6008	6011	6002	6003	6009	6558	6559	6162	110S	6178	6110	6173	6359
	FLOWABLE BACKFILL	TRENCH EXCAVATION PROTECTION	RIPRAP (STONE PROTECTION) (12 IN)	CONC BOX CULV (3 FT X 2 FT)	CONC BOX CULV (5 FT X 2 FT)	RC PIPE (CL III)(18 IN)	RC PIPE (CL III)(24 IN)	RC PIPE (CL III)(30 IN)	RC PIPE (CL III)(36 IN)	RC PIPE (CL III)(54 IN)	MANH (COMPL)(PRM)(48IN)	MANH (COMPL)(PRM)(60IN)	JCTBOX (COMPL)(PJB) (5FTX5FT)	INL(CMP) (PAZD-CZ)(FG)(3FTX3FT-3FTX3FT)	INL(CMP) (PAZD-CZ)(FG)(4FTX4FT-3FTX3FT)	INL(CMP) (PAZD-CZ)(FG)(4FTX4FT-3FTX3FT)	COA INLET, STANDARD 10 FT	WINGWALL (PW - 1) (HW=3 FT)	SET (TY I)(S=3 FT)(HW= 3 FT)(6:1)(P)	SET (TY I)(S= 5 FT)(HW= 3 FT)(6:1)	SET (TY II) (18 IN) (RCP) (4:1)(P)
	CY	LF	CY	LF	LF	LF	LF	LF	LF	LF	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA
KAUFFMAN LOOP WEST					120															2	
KAUFFMAN CROSSOVER							112														
SANTA RITA WEST																					
SANTA RITA CROSSOVER		172					172														
STA 2486+50 TURNAROUND		32						54													
FIRE STATION CROSSOVER		65					88														
TOWER ROAD WEST		145						145													
TOWER ROAD CROSSOVER							136														
CR258 WEST		90							248												
CR258 CROSSOVER								441				1									
STA 2674+66.10 CROSSING																					
DRIVEWAY CULVERTS					32	74	412		113											2	2
STORM SEWER SANTA RITA BLVD		376				51			96	236			1				2				
STORM SEWER TOWER ROAD		418				167		416					1				2				
STORM SEWER MEDIAN		349	31	348.5														1	1		
STORM SEWER FM 3405		185					164						1		1						1
STORM SEWER WQ POND						117	306				1										
MISCELLANEOUS	100																				
DRAINAGE SUBTOTAL	100	1832	31	348.5	152	409	1390	1056	457	236	1	1	2	2	1	0	4	1	1	4	1

SUMMARY OF DRAINAGE ITEMS					
LOCATION	467	467	467	467	467
	6389	6395	6418	6423	6454
	SET (TY II) (24 IN) (RCP) (3:1)(P) EA	SET (TY II) (24 IN) (RCP) (6:1) (P) EA	SET (TY II) (30 IN) (RCP) (3:1) (P) EA	SET (TY II) (30 IN) (RCP) (6:1) (P) EA	SET (TY II) (36 IN) (RCP) (6:1) (P) EA
KAUFFMAN LOOP WEST					
KAUFFMAN CROSSOVER		2			
SANTA RITA WEST					
SANTA RITA CROSSOVER	2				
STA 2486+50 TURNAROUND				2	
FIRE STATION CROSSOVER		2			
TOWER ROAD WEST				2	
TOWER ROAD CROSSOVER		2			
CR258 WEST					4
CR258 CROSSOVER			1	1	
STA 2674+66.10 CROSSING					
DRIVEWAY CULVERTS		18			4
STORM SEWER SANTA RITA BLVD					1
STORM SEWER TOWER ROAD					
STORM SEWER MEDIAN					
STORM SEWER FM 3405		1			
STORM SEWER WQ POND					
DRAINAGE SUBTOTAL	2	25	1	5	9

SUMMARY OF WATER QUALITY ITEMS							
LOCATION	403	432	432	432	465	481	SP-1
	6001	6003	6024	6026	6153	6013	SP-2
	TEMPORARY SPL SHORING	RIPRAP (CONC)(6 IN)	RIPRAP (STONE) (DR Y)(12 IN)	RIPRAP (STONE) (DR Y)(18 IN)	INLET (COMPL)(PA ZD)(RC)(4FT X4FT)	PIPE (PVC) (SCH 40) (6 IN)	SS - WATER QUALITY POND
	SF	CY	CY	CY	EA	LF	EA
FIRE STATION POND							
SAND FILTER NO. 1						138	1
SAND FILTER NO. 2					1		1
SAND FILTER NO. 3							1
SAND FILTER NO. 4A	1211	12	160			90	1
SAND FILTER NO. 4B						60	1
SAND FILTER NO. 5				140			1
SAND FILTER NO. 6			38				1
WATER QUALITY SUBTOTAL	1211	12	198	140	1	288	7

SUMMARY OF DRAINAGE ITEMS							
LOCATION	110	420	432	432	462	462	466
	6002	6057	6002	6031	6001	6026	6165
	EXCAVATION (CHANNEL)	CL C CONC (WINGWALLS)	RIPRAP (CONC)(5 IN)	RIPRAP (STONE) PROTECTION (12 IN)	CONC BOX CULV (3 FT X 2 FT)	CONC BOX CULV (9 FT X 7 FT)	WINGWALL (FW - S) (HW=4 FT)
	CY	CY	CY	CY	LF	LF	EA
CROSSING 2 CHANNEL	1780		295				
CULVERT AT SH 29		12.7					
CULVERT 3		13.4		128		102	
CULVERT STA 2647+00			6		95		1
DRAINAGE SUBTOTAL	1780	26.1	301	128	95	102	1

5	PAZD REPLACED	BAM	07/18/25
4	CULVERT ADJUSTED FOR GRADING	ANK	1/22/25
3	REVISE SBRR ROADWAY	ANK	12/30/24
2	QUANTITY REVISIONS PER RFI #27	ANK	11/14/24
1	QUANTITY REVISIONS PER RFI #5	ANK	8/21/24
NO.	REVISION	BY	DATE



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TEXAS REGISTERED ENGINEERING FIRM F-1741

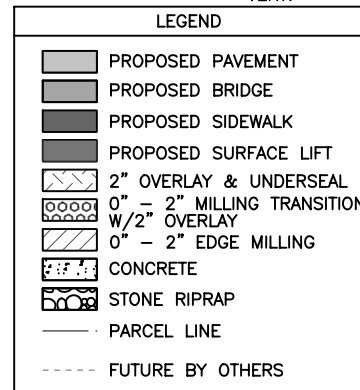
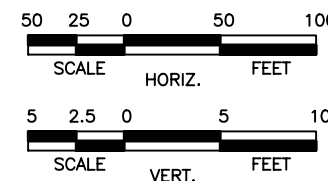
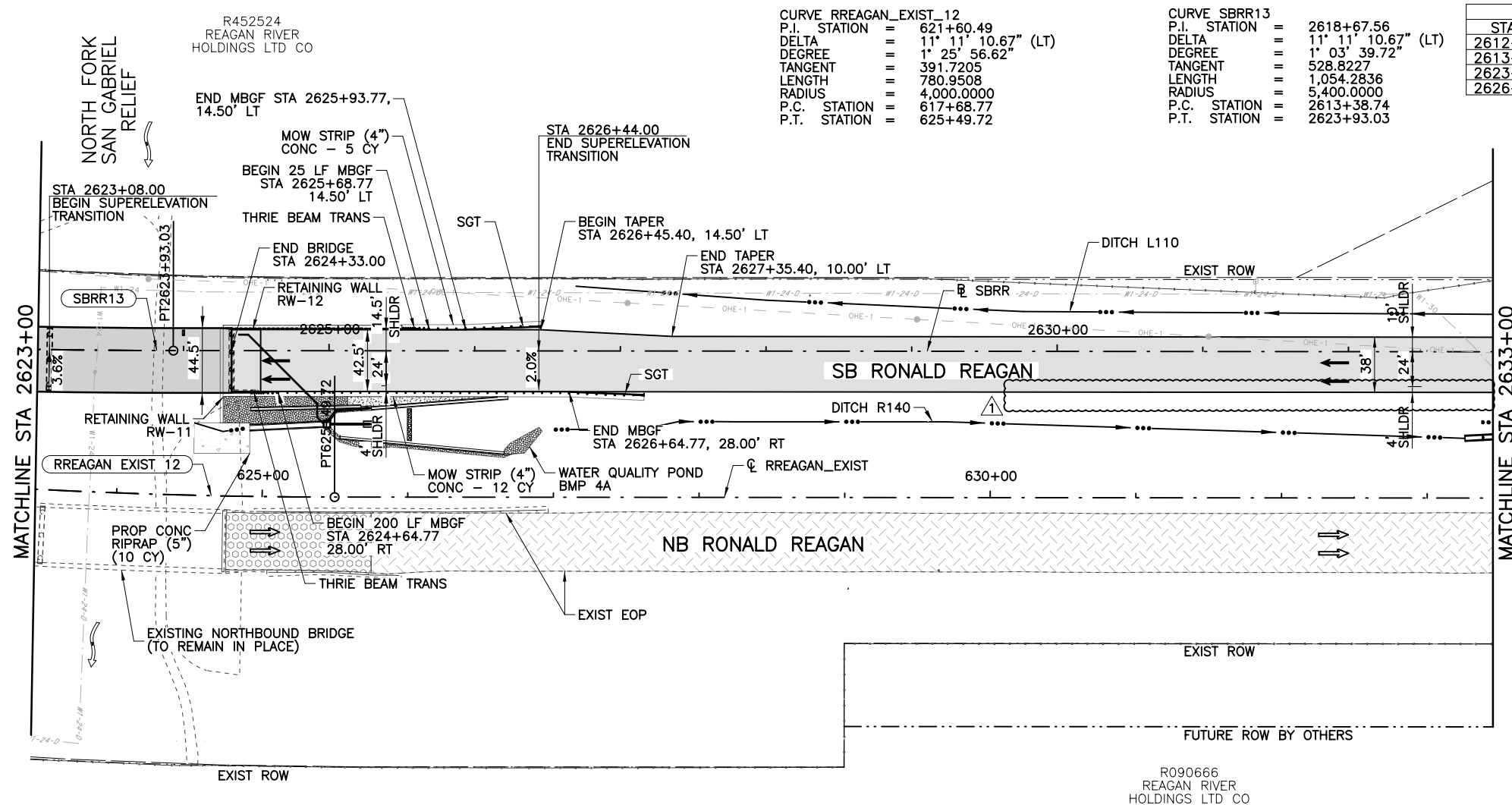
RONALD REAGAN BLVD.

SUMMARY OF DRAINAGE AND WATER QUALITY ITEMS

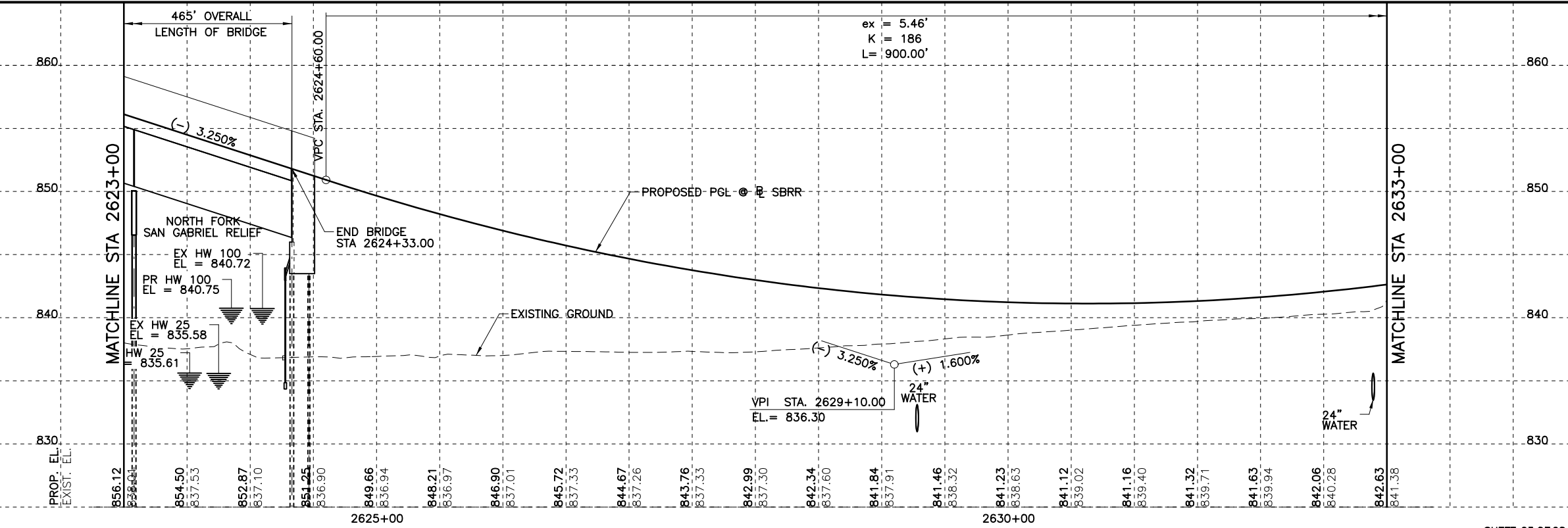
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Checked:	X	TEXAS		
Drawn:	DIST.	COUNTY	CONTROL NO.	SECTION NO.
Checked:		WILLIAMSON		

24

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- NOTES:
- ALL DIMENSIONS ARE TO EDGE OF PAVEMENT WHERE APPLICABLE.
 - ALL STATIONING BASED ON SBRR UNLESS OTHERWISE NOTED.
 - EXISTING GROUND PROFILE IS AT SBRR.
 - DRIVEWAY LOCATIONS SHOWN ARE APPROXIMATE AND SHALL BE VERIFIED IN THE FIELD PRIOR TO CONSTRUCTION. SEE DRIVEWAY AND SIDEWALK DETAILS SHEET FOR FURTHER INFORMATION.
 - SEE INTERSECTION LAYOUTS FOR MORE INFORMATION.



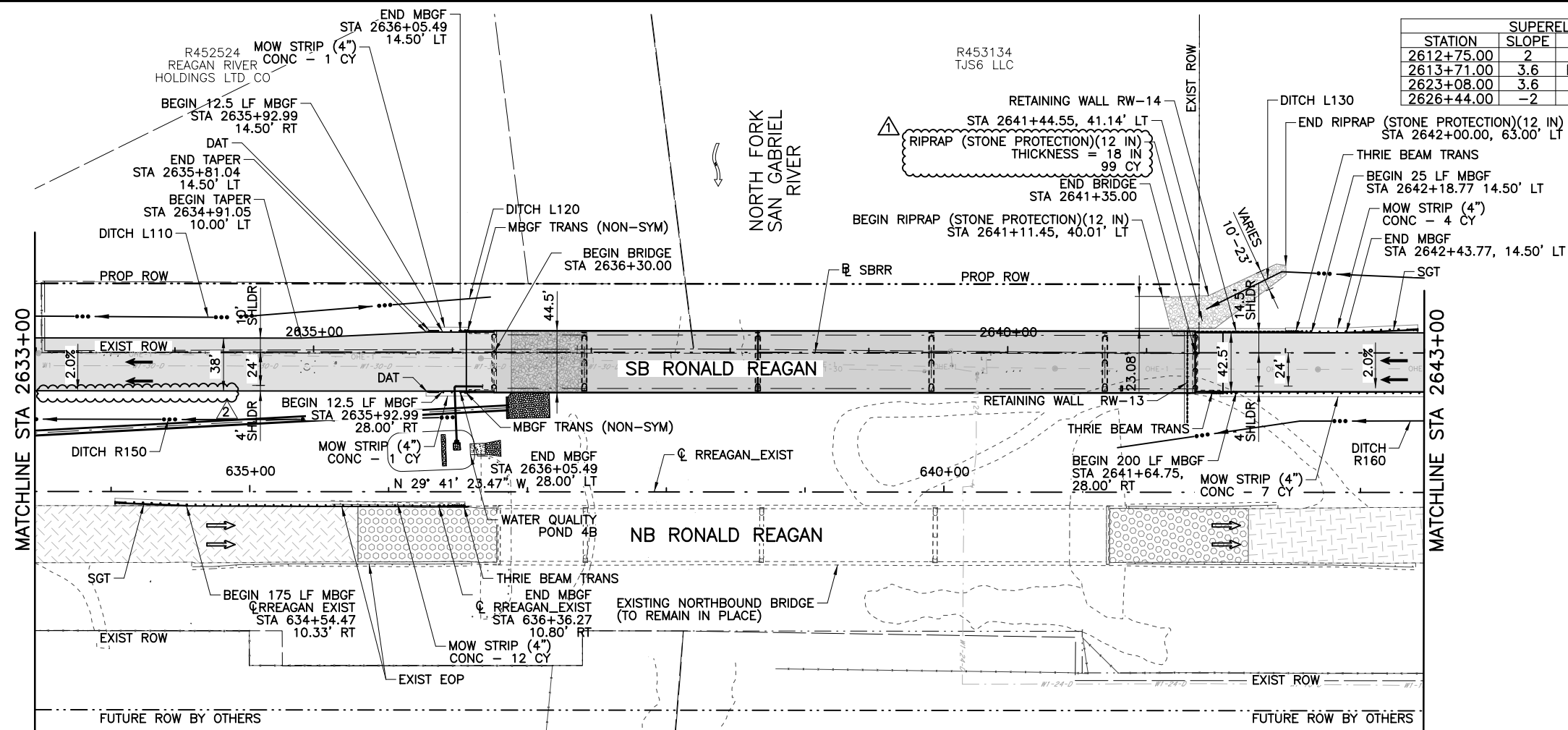
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07/17/2025

NO.	REVISION	BY	DATE
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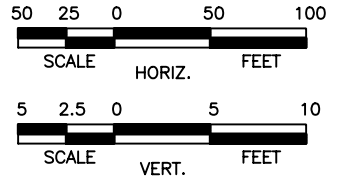


ROADWAY PLAN & PROFILE					
SB RONALD REAGAN STA 2623+00.00 TO STA 2633+00.00					
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Checked: ANK	DIST.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.
Drawn: ANK	WILLIAMSON				
Checked: ANK					163

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SUPERELEVATION TABLE		
STATION	SLOPE	COMMENTS
2612+75.00	2	BEGIN TRANSITION
2613+71.00	3.6	BEGIN FULL SUPERELEVATION
2623+08.00	3.6	END FULL SUPERELEVATION
2626+44.00	-2	END TRANSITION



LEGEND	
[Pattern]	PROPOSED PAVEMENT
[Pattern]	PROPOSED BRIDGE
[Pattern]	PROPOSED SIDEWALK
[Pattern]	PROPOSED SURFACE LIFT
[Pattern]	2" OVERLAY & UNDERSEAL
[Pattern]	0" - 2" MILLING TRANSITION
[Pattern]	W/2" OVERLAY
[Pattern]	0" - 2" EDGE MILLING
[Pattern]	CONCRETE
[Pattern]	STONE RIPRAP
[Line]	PARCEL LINE
[Line]	FUTURE BY OTHERS

- NOTES:
- ALL DIMENSIONS ARE TO EDGE OF PAVEMENT WHERE APPLICABLE.
 - ALL STATIONING BASED ON SBRR UNLESS OTHERWISE NOTED.
 - EXISTING GROUND PROFILE IS AT SBRR.
 - DRIVEWAY LOCATIONS SHOWN ARE APPROXIMATE AND SHALL BE VERIFIED IN THE FIELD PRIOR TO CONSTRUCTION. SEE DRIVEWAY AND SIDEWALK DETAILS SHEET FOR FURTHER INFORMATION.
 - SEE INTERSECTION LAYOUTS FOR MORE INFORMATION.



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RFI 33 - RIPRAP UPDATES	ANK	12/20/24
RFI 74 MBGF REMOVED	ANK	7/17/25
NO.	REVISION	BY DATE



RONALD REAGAN BLVD.

ROADWAY PLAN & PROFILE

SB RONALD REAGAN
STA 2633+00.00 TO STA 2643+00.00

Designed: ANK	FED. RD. NO. X	STATE TEXAS	PROJECT NO.	HIGHWAY NO.
Checked: ANK	DIST.	COUNTY	CONTROL NO.	SECTION NO.
Drawn: ANK	DIST.	COUNTY	CONTROL NO.	SECTION NO.
Checked: ANK	WILLIAMSON			164

DATE: Feb 28 / 2024 6:57:29 PM SlotCA

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DISCLAIMER:
The use of this standard is governed by the "Texas Engineering Practice Act". No warranty of any kind is made by TXDOT for any purpose whatsoever. TXDOT assumes no responsibility for the conversion of this standard to other formats.

[illegible]

*SINGLE WING ONLY

NOTES:
Skew = 0° on SW-0, FW-0, SETB-CD, SETB-SW-0, and SETB-FW-0 standard sheets;
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 must 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 sheet.

U = Box culvert wall thickness. Dimension can be found on the applicable box culvert standard sheet.

C = Curb height

See applicable wing or end treatment standard sheets for calculations of Hw, A, B, Lw, Ltw, Atw, and Total Wingwall Area.

H_w = Height of wingwall

A = Distance from face of curb to end of wingwall (not applicable to parallel or straight wingwalls)

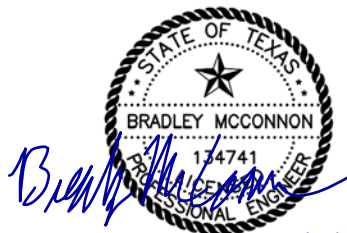
B = Offset of end of wingwall (not applicable to parallel or straight wingwalls)

L_w = Length of longest wingwall.

L_{tw} = 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 sq. ft. for two wingwalls (one structure end) if Lt or Rt.
Area for four wingwalls (two structure ends) if Both.

FOR REVISION #1



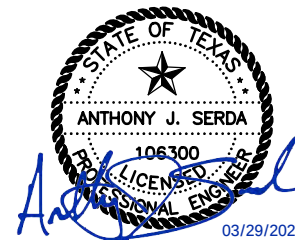
07/18/2025

- ① Round the wall heights shown to the nearest foot for bidding purposes.
- ② Concrete volume shown is for box culvert curb only. For curbs using the Box Culvert Rail Mounting Details (RAC) standard sheet quantities shown must be increased by a factor of 2.25. If Class S concrete is required for the top slab of the culvert, also provide Class S concrete for the curb. Curb concrete is considered part of the Box Culvert for payment.
- ③ Concrete volume shown is total of wings, footings, culvert toewall (if any), anchor toewalls (if any) and wingwall toewalls. Riprap aprons, culverts, and curb quantities are not included.
- ④ Regardless of the type of culvert shown on this sheet, the Contractor has 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 is 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.

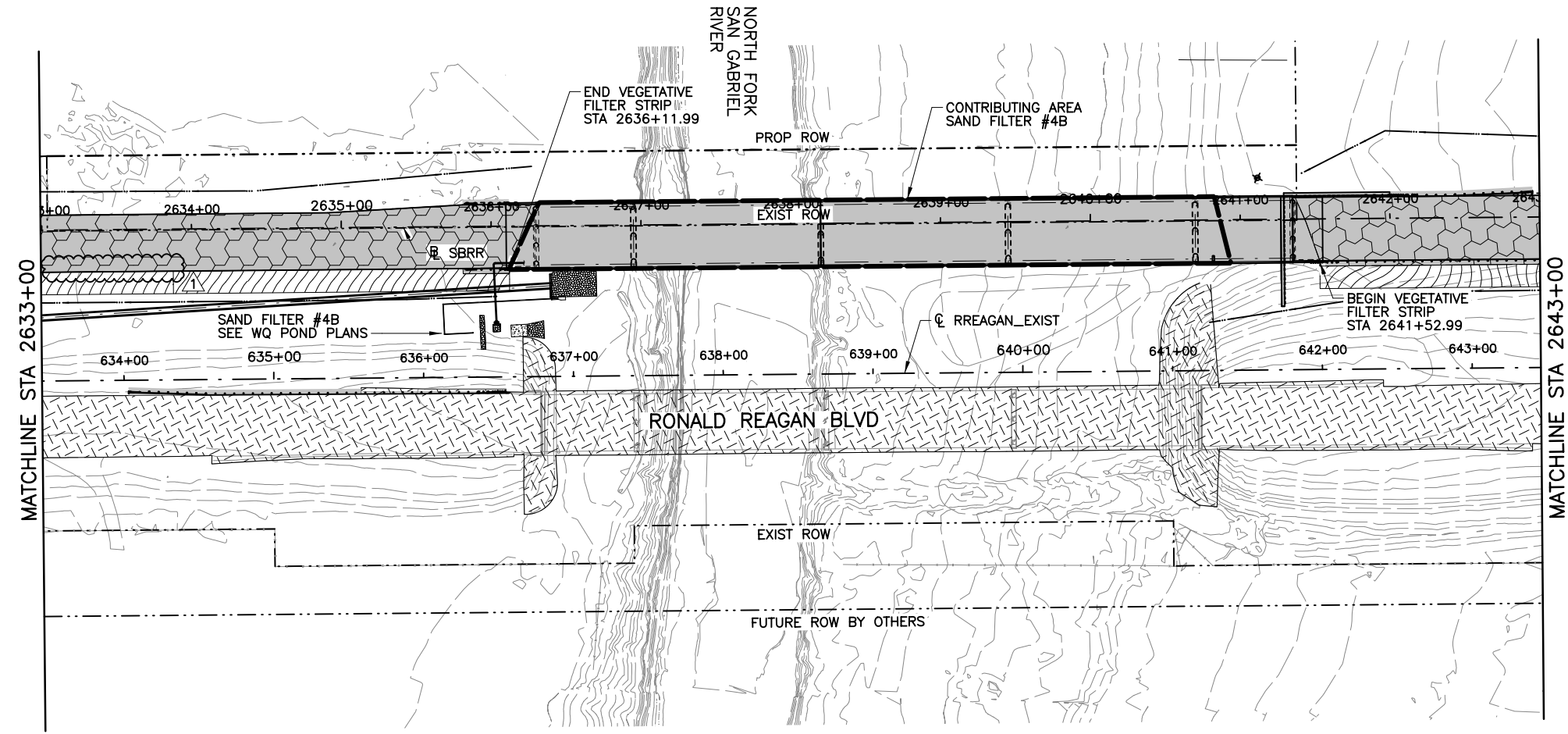
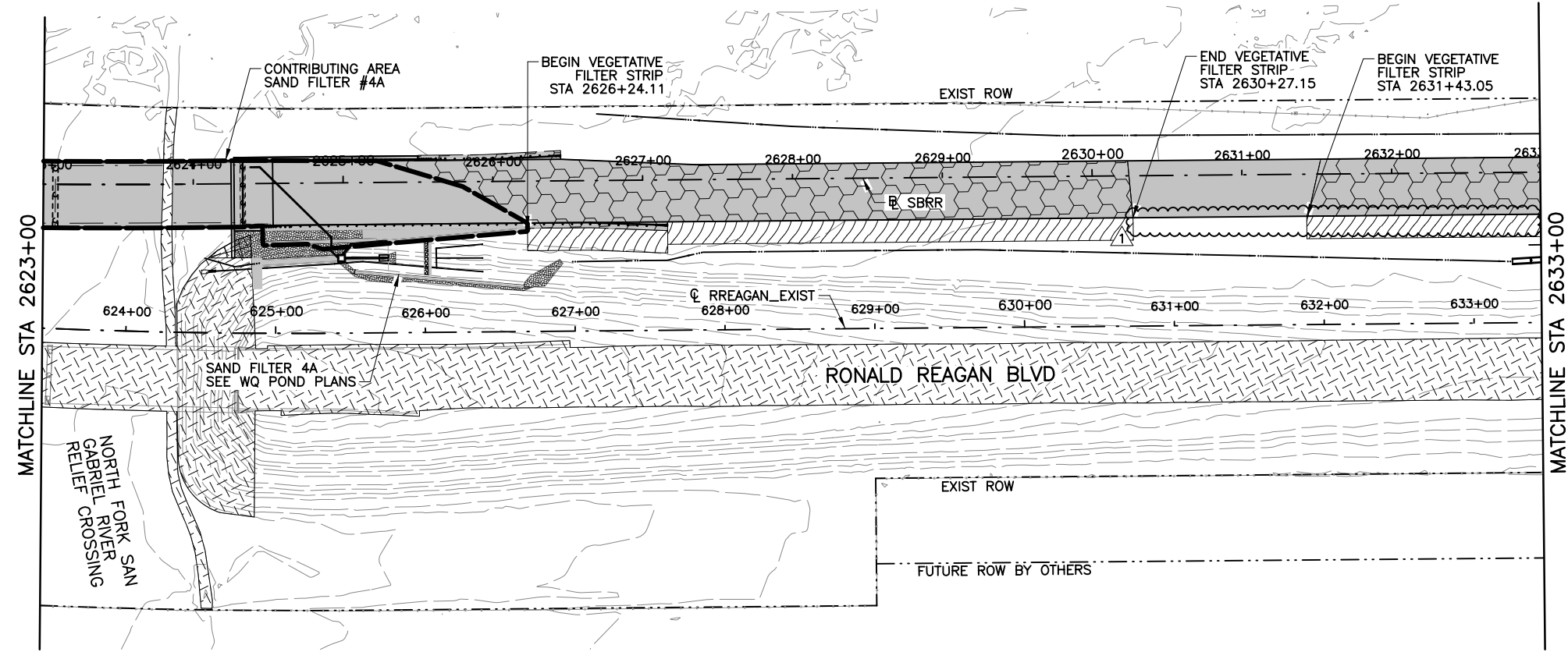
An Excel 2010 spreadsheet to assist in completing this table can be downloaded from the Bridge Standards (English) web page on the TxDOT web site. The completed sheet must be signed, sealed, and dated by a licensed Professional Engineer.



1		SETB-PD ADDED		BAM		7/18/25	
NO.		REVISION				BY DATE	
				 TEXAS REGISTERED ENGINEERING FIRM F-1741			
RONALD REAGAN BLVD. BOX CULVERT SUPPLEMENT WINGS AND END TREATMENTS							
BCS							
Designed:		FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
Checked:		X	TEXAS	\$FED\$			
Drawn:		DIST.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
Checked:			WILLIAMSON				323

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LEGEND	
	EXISTING IMPERVIOUS COVER
	EXISTING IMPERVIOUS COVER TO BE REMOVED
	PROPOSED IMPERVIOUS COVER
	PROPOSED BMP TREATED PAVEMENT
	PROPOSED VEGETATIVE FILTER STRIPS
	PROPOSED VEGETATIVE FILTER STRIPS REMOVE & REPLACE
	DETENTION POND
	DIRECTION OF DITCH FLOW
	DIRECTION OF FLOW
	ROCK RIPRAP/GABION WALL
	SPLASH PAD
	CLEANOUT
	UNDERDRAIN
	PROPOSED BALL VALVE

7/17/2025

RFI 74 MBGF REMOVED	BM	7/17/25
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RONALD REAGAN BLVD.

WATER QUALITY DRAINAGE PLANS

Designed:	FED. RD. DIV. NO.	STATE	PROJECT NO.	HIGHWAY NO.
Checked:	X	TEXAS		
Drawn:	DIST.	COUNTY	CONTROL NO.	SECTION NO.
Checked:		WILLIAMSON		
			JOB NO.	SHEET NO.
				351

NOTES:

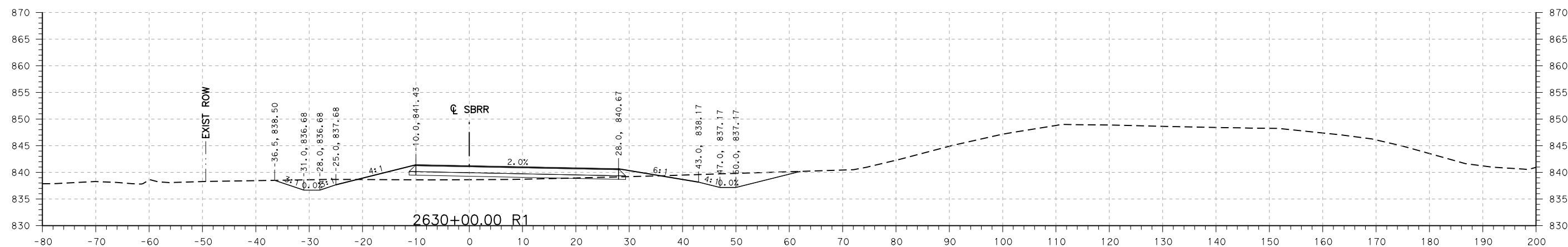
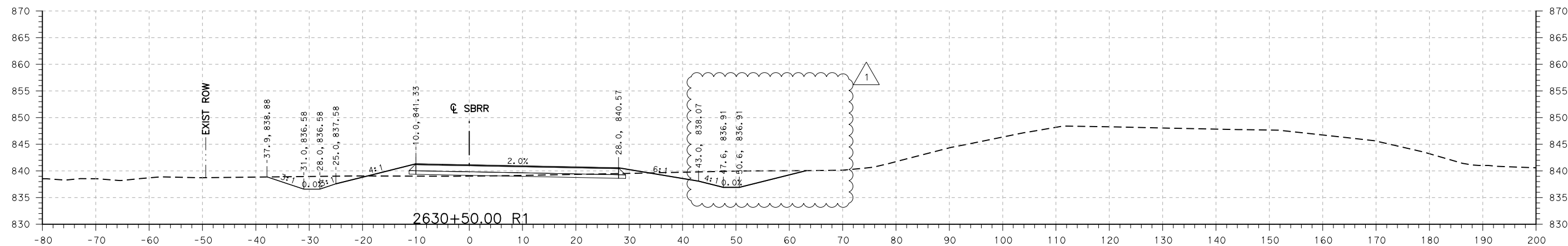
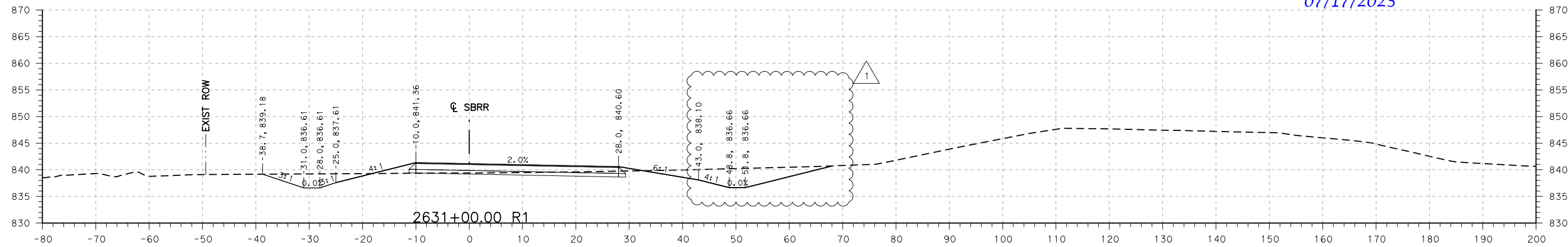
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2. VERTICAL LOCATION OF UTILITIES IS APPROXIMATE AND SHOULD BE FIELD VERIFIED PRIOR TO CONSTRUCTION.

STA. 2630+00.00 R1 TO STA. 2631+00.00 R1



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07/17/2025

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SCALE
HORIZ. & VERT. FEET



TEXAS REGISTERED ENGINEERING FIRM F-1741



williamson
COUNTY
1848

RONALD REAGAN BLVD
RONALD REAGAN CROSS SECTIONS

SHEET 194 OF 234

Designed: —	FED. RD. DIV. NO.	STATE	FEDERAL AID PROJECT NO.	HIGHWAY NO.
Checked: —	X	TEXAS		
Drawn: —	DIST.	COUNTY	CONTROL NO.	SECTION NO.
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				JOB NO.
				SHEET NO.
				875

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STA. 2631+50.00 R1 TO STA. 2632+50.00 R1



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