SUBJECT: PLANS AND PROPOSAL ADDENDUMS PROJECT: F 2B24(123) CONTROL: 0814-01-036 COUNTY: BAYLOR LETTING: 06/05/2024 REFERENCE NO: 0523 PROPOSAL ADDENDUMS ------PROPOSAL COVER X BID INSERTS (SH. NO.: 1-6 thru 6-6 X GENERAL NOTES (SH. NO.: D \_ SPEC LIST (SH. NO.: SPECIAL PROVISIONS: ADDED: DELETED: SPECIAL SPECIFICATIONS: ADDED: DELETED: X OTHER: Plan Sheets DESCRIPTION OF ABOVE CHANGES (INCLUDING PLANS SHEET CHANGES) \*\*\*\*BID INSERTS\*\*\*\* REVISE QUANTITIES FOR THE FOLLOWING ITEMS: 104-6017, 400-6005, 400-6006, 464-6007, 467-6390, 467-6419 496-6007, 530-6004, 530-6005 \*\*\*\*GENERAL NOTES\*\*\*\* **REVISE ITEM 467** \*\*\*\*PLAN SHEETS\*\*\*\* REVISE SHEETS 8, 11-12, 13-15, 74, and 76-82, DUE TO CHANGES ABOVE

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Highway: FM 422

## Sheet C

Control: 0814-01-036

## **Item Specific**

### Item 110 - Excavation

Any payment for earthwork beyond plan quantity must be supported by original DTM and final DTM and average end area calculations, per specification. TxDOT will not consider truck tickets, borrow pit DTM, or other mechanisms for measuring additional embankment or excavation. Original DTM must be obtained prior to project disturbance.

### Item 132 - Embankment

All borrow/aggregate sites shall meet the requirements of the Texas Aggregate Quarry and Pit Safety Act which can be found at www.txdot.gov/inside-txdot/division/maintenance/quarry.html This material shall consist of suitable earth material such as loam, clay or other materials that will form a stable embankment and be free from vegetation or other objectionable matter. Any embankment needed from a borrow pit must first be approved by the Engineer.

Windrow approximately 4" of existing grass and topsoil adjacent to the right of way line or vegetative buffer zone prior to beginning earthwork operations. Upon completion of earthwork operations scarify the slopes and ditches longitudinally to a depth of approximately 4 inches and return the windrowed material to the slopes and the ditches as a permanent erosion control measure. This work will not be paid for directly but is considered subsidiary to item 132.

Any payment for earthwork beyond plan quantity must be supported by original DTM and final DTM and average end area calculations, per specification. TxDOT will not consider truck tickets, borrow pit DTM, or other mechanisms for measuring additional embankment or excavation. Original DTM must be obtained prior to project disturbance.

### Item 134 – Backfilling Pavement Edges

For Type A Backfill, Use easily cultivated fertile backfill that is free from objectionable material and resists erosion. Ensure that the soil obtained from sites outside the right of way has a pH of 5.5 to 8.5, per Tex-128-E and a PI <=15, per Tex-106-E. Soil is subject to testing by the Engineer.

Backfill pavement edges in accordance with "Hot Mix Longitudinal Joint Detail" sheet.

RAP generated from this project may be used as backfill material.

The thickness of backfill material varies and Contractor shall bid accordingly. The Contractor will ensure that 95% of the backfill materials pass a 2-inch sieve.

Complete backfilling operations within 14 days after the surface course is completed. Failure to complete backfilling during this time will result in the withholding of payment for all hot mix placed until all backfilling has been completed.

### **Item 164 - Seeding for Erosion Control**

Temporary seeding will be required in several small areas as work progresses to comply with the storm water pollution prevention plan and may require multiple mobilizations of seeding crew.

# **County: BAYLOR**

### Highway: FM 422

The Engineer may blend temporary and permanent seeding according to the temperatures and time of year in order to achieve maximum coverage in the least amount of time.

The Contractor is responsible for the protection and maintenance of all seeded areas until final acceptance of the project. Maintenance includes:

- 1. Protection of seeded and mulched areas against traffic.
- This work will not be paid for directly.

### **Item 168 - Vegetative Watering**

Water as directed by the Engineer all areas that receive seed to sustain grass growth to obtain a minimum 70% vegetative cover within the right of way. This may require the Contractor to water the newly established grass for a period of up to three months after all other work on the contract is completed and before the project is accepted. Watering shall be done at times determined by the Engineer in order to minimize any loss due to evaporation.

# Item 310 – Cement Treatment (Road Mixed)

No substitute prime will be allowed on this project.

**Item 354 – Planing and Texturing Pavement** Refer to the Hot Mix Longitudinal Joint Detail for all edge treatments. This work will be considered subsidiary to item 354.

Construct butt joints at all locations where planning, inlay, and overlay operations begin and end.

Contractor to verify manhole locations, if applicable, before milling operations begin.

Material is to be used as backfill pavement edges any remaining material will become property of TXDOT and be stockpiled at the following location: FM 422 & US 183 intersection in the Northeast corner

### **Item 467 - Safety End Treatment**

A Provide precast Type II SETs. Riprap aprons will not be required.

Item 502 - Barricades, Signs, and Traffic Handling The Traffic Control Plan (TCP) for this project includes the plans, the Texas Manual on Traffic Control Devices, Barricade and Construction Standard Sheets, Standard TCP Sheets, and as otherwise required by the Engineer.

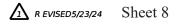
The Contractor's person responsible for TCP compliance is available by local telephone 24 hours a day and must respond to traffic control needs within 45 minutes of being notified.

Work will not be permitted without adequate traffic control devices in place. Work will only be permitted on one side of the roadway at any time.

### Sheet D

## Control: 0814-01-036

2. Fully moving the project twice (2) for a rehab/widening job or once (1) for an overlay.





### **CONTROLLING PROJECT ID** 0814-01-036

**DISTRICT** Wichita Falls **HIGHWAY** FM 422 **COUNTY** Baylor

**Estimate & Quantity Sheet** 

		CONTROL SECTIO	ON JOB	0814-01	-036		
		PROJ	ECT ID	A00097	429		
		C	OUNTY	Bayle	or	TOTAL EST.	TOTAL FINAL
		ніс	HWAY	FM 4			FINAL
ALT	BID CODE	DESCRIPTION	UNIT	EST.	FINAL	-	
	104-6017	REMOVING CONC (DRIVEWAYS)	SY	140.000		140.000	
	110-6001	EXCAVATION (ROADWAY)	CY	2,246.000		2,246.000	
	132-6004	EMBANKMENT (FINAL)(DENS CONT)(TY B)	CY	3,223.000		3,223.000	
	134-6002	BACKFILL (TY B)	STA	307.000		307.000	
	164-6009	BROADCAST SEED (TEMP) (WARM)	SY	16,997.000		16,997.000	
	164-6011	BROADCAST SEED (TEMP) (COOL)	SY	16,997.000		16,997.000	
	164-6033	DRILL SEEDING (PERM) (RURAL) (SANDY)	SY	33,994.000		33,994.000	
	168-6001	VEGETATIVE WATERING	MG	294.000		294.000	
	275-6001	CEMENT	TON	523.000		523.000	
	275-6010	CEMENT TREAT (SUBGRADE) (8")	SY	30,592.000		30,592.000	
	310-6009	PRIME COAT (MC-30)	GAL	7,649.000		7,649.000	
	314-6013	EMULS ASPH (EROSN CONT)(CSS-1H)	GAL	8,515.000		8,515.000	
	351-6004	FLEXIBLE PAVEMENT STRUCTURE REPAIR(8")	SY	2,500.000		2,500.000	
	354-6002	PLAN & TEXT ASPH CONC PAV(0" TO 2")	SY	1,511.000		1,511.000	
	400-6005	CEM STABIL BKFL	CY	108.000		108.000	
	400-6006	CUT & RESTORING PAV	SY	138.000		138.000	
	402-6001	TRENCH EXCAVATION PROTECTION	LF	27.000		27.000	
	403-6001	TEMPORARY SPL SHORING	SF	124.000		124.000	
	462-6051	CONC BOX CULV (5 FT X 3 FT)(EXTEND)	LF	114.000		114.000	
	464-6005	RC PIPE (CL III)(24 IN)	LF	268.000		268.000	
	464-6007	RC PIPE (CL III)(30 IN)	LF	<u> 180.000</u>		180.000	
	464-6008	RC PIPE (CL III)(36 IN)	LF	46.000		46.000	
	466-6097	HEADWALL (CH - PW - 0) (DIA= 24 IN)	EA	2.000		2.000	
	466-6099	HEADWALL (CH - PW - 0) (DIA= 30 IN)	EA	4.000		4.000	
	466-6101	HEADWALL (CH - PW - 0) (DIA= 36 IN)	EA	2.000		2.000	
	466-6193	WINGWALL (PW - 2) (HW=4 FT)	EA	3.000		3.000	
	466-6194	WINGWALL (PW - 2) (HW=5 FT)	EA	1.000		1.000	
	467-6363	SET (TY II) (18 IN) (RCP) (6: 1) (P)	EA	34.000		34.000	
	467-6390	SET (TY II) (24 IN) (RCP) (4: 1) (C)	EA	<u>A</u> 9.000		9.000	
	467-6394	SET (TY II) (24 IN) (RCP) (6: 1) (C)	EA	2.000		2.000	
	467-6395	SET (TY II) (24 IN) (RCP) (6: 1) (P)	EA	8.000		8.000	
	467-6419	SET (TY II) (30 IN) (RCP) (4: 1) (C)	EA	<u>A</u> 4.000		4.000	
	467-6423	SET (TY II) (30 IN) (RCP) (6: 1) (P)	EA	2.000		2.000	
	496-6005	REMOV STR (WINGWALL)	EA	4.000		4.000	
	496-6007	REMOV STR (PIPE)	LF	⚠ 558.000		558.000	
	500-6001	MOBILIZATION	LS	1.000		1.000	
	502-6001	BARRICADES, SIGNS AND TRAFFIC HANDLING	МО	19.000		19.000	



# A REVISED 5/24/24

DISTRICT	COUNTY	CCSJ	SHEET
Wichita Falls	Baylor	0814-01-036	11



### **CONTROLLING PROJECT ID** 0814-01-036

**DISTRICT** Wichita Falls **HIGHWAY** FM 422 **COUNTY** Baylor

**Estimate & Quantity Sheet** 

		CONTROL SECTIO	ON JOB	0814-01	-036		
		PROJ	ECT ID	A00097	429		
		C	DUNTY	Baylo	or	TOTAL EST.	TOTAL FINAL
		HIG	HWAY	FM 42		-	TINAL
ALT	BID CODE	DESCRIPTION	UNIT	EST.	FINAL	1	
	506-6038	TEMP SEDMT CONT FENCE (INSTALL)	LF	975.000		975.000	
	506-6039	TEMP SEDMT CONT FENCE (REMOVE)	LF	975.000		975.000	
	506-6041	BIODEG EROSN CONT LOGS (INSTL) (12")	LF	560.000		560.000	
	506-6043	BIODEG EROSN CONT LOGS (REMOVE)	LF	560.000		560.000	
	530-6004	DRIVEWAYS (CONC)	SY	<u> 140.000</u>		140.000	
	530-6005	DRIVEWAYS (ACP)	SY	1,104.000		1,104.000	
	530-6008	TURNOUTS (ACP)	SY	308.000		308.000	
	530-6016	DRIVEWAYS (BASE)	SY	2,089.000		2,089.000	
	533-6001	RUMBLE STRIPS (SHOULDER)	LF	63,940.000		63,940.000	
	533-6002	RUMBLE STRIPS (CENTERLINE)	LF	31,970.000		31,970.000	
	560-6005	MAILBOX INSTALL-D (TWG-POST) TY 2	EA	1.000		1.000	
	560-6011	MAILBOX INSTALL-S (TWW-POST) TY 4	EA	13.000		13.000	
	644-6004	IN SM RD SN SUP&AM TY10BWG(1)SA(T)	EA	16.000		16.000	
	644-6007	IN SM RD SN SUP&AM TY10BWG(1)SA(U)	EA	2.000		2.000	
	644-6033	IN SM RD SN SUP&AM TYS80(1)SA(U)	EA	1.000		1.000	
	644-6060	IN SM RD SN SUP&AM TYTWT(1)WS(P)	EA	16.000		16.000	
	644-6076	REMOVE SM RD SN SUP&AM	EA	35.000		35.000	
	658-6062	INSTL DEL ASSM (D-SW)SZ 1(BRF)GF2(BI)	EA	36.000		36.000	
	658-6100	INSTL OM ASSM (OM-2Z)(WFLX)GND(BI)	EA	36.000		36.000	
	662-6111	WK ZN PAV MRK SHT TERM (TAB)TY Y-2	EA	4,569.000		4,569.000	
	666-6309	RE PM W/RET REQ TY I (W)6"(SLD)(100MIL)	LF	63,600.000		63,600.000	
	666-6318	RE PM W/RET REQ TY I (Y)6"(BRK)(100MIL)	LF	34,600.000		34,600.000	
	666-6321	RE PM W/RET REQ TY I (Y)6"(SLD)(100MIL)	LF	11,565.000		11,565.000	
	3076-6001	D-GR HMA TY-B PG64-22	TON	6,731.000		6,731.000	
	3076-6038	D-GR HMA TY-D PG64-22 (LEVEL-UP)	TON	783.000		783.000	
	3076-6046	D-GR HMA TY-D SAC-B PG70-28	TON	11,090.000		11,090.000	
	3084-6001	BONDING COURSE	GAL	7,882.000		7,882.000	
	4122-6023	THERMO PIPE(18")(PP)(TY S)(TY II)	LF	534.000		534.000	
	4122-6024	THERMO PIPE(24")(PP)(TY S)(TY II)	LF	154.000		154.000	
	6185-6002	TMA (STATIONARY)	DAY	283.000		283.000	
	6185-6005	TMA (MOBILE OPERATION)	DAY	8.000		8.000	
	18	SAFETY CONTINGENCY: CONTRACTOR FORCE ACCOUNT WORK (PARTICIPATING)	LS	1.000		1.000	
		EROSION CONTROL MAINTENANCE: CONTRACTOR FORCE ACCOUNT WORK (PART)	LS	1.000		1.000	



# A REVISED 5/24/24

DISTRICT	COUNTY	CCSJ	SHEET
Wichita Falls	Baylor	0814-01-036	12

	$\Delta$															
SUMMARY OF ROADWAY ITEMS																
FM 422	104	110	132	134	275	275	310	314	351	354	533	533	560	560	658	3076
	6017	6001	6004	6002	6001	6010	6009	6013	6004	6002	6001	6002	6005	6011	6100	6001
	REMOVING CONC (DRIVEWAYS )	EXCAVATION	EMBANKMENT (FINAL)(DENS CONT)(TY B)	BACKFILL (TY B)	CEMENT	CEMENT TREAT (SUBGRADE) (8")	PRIME COAT (MC-30)	EMULS ASPH (EROSN CONT)(CSS-1H)	FLEXIBLE PAVEMENT STRUCTURE REPAIR(8")	PLAN & TEXT ASPH CONC PAV(0" TO 2")	RUMBLE STRIPS (SHOULDER)	RUMBLE STRIPS (CENTERLIN E)	MAILBOX INSTALL-D (TWG-POST) TY 2	MAILBOX INSTALL-S (TWW-POST) TY 4	INSTL OM ASSM (OM-2Z)(WF LX)GND(BI)	D-GR HI TY-B PG6
	SY	СҮ	СҮ	STA	TON	SY	GAL	GAL	SY	SY	LF	LF	EA	EA	EA	ΤΟΝ
CSJ: 0814-01-036									2500						4	
SHEET 1 OF 14 STA 45+00 TO 69+00	140	96	19	11	18	1021	256	296	2300	889	4800	2400		2		225
SHEET 2 OF 14 STA 69+00 TO 93+00	140	161	443	24	41	2400	600	667		005	4800	2400		2	<u> </u>	528
SHEET 3 OF 14 STA 93+00 TO 117+00		193	113	24	41	2400	600	667			4800	2400		-	<u> </u>	528
SHEET 4 OF 14 STA 117+00 TO 141+00		165	442	24	41	2400	600	667			4800	2400	1			528
SHEET 5 OF 14 STA 141+00 TO 165+00		186	211	24	41	2400	600	667			4800	2400	_	2	+	528
SHEET 6 OF 14 STA 165+00 TO 189+00		196	67	24	41	2400	600	667			4800	2400				528
SHEET 7 OF 14 STA 189+00 TO 213+00		169	226	24	41	2400	600	667			4800	2400		1		528
SHEET 8 OF 14 STA 213+00 TO 237+00		175	216	24	41	2400	600	667			4800	2400				528
SHEET 9 OF 14 STA 237+00 TO 261+00		187	225	24	41	2400	600	667			4800	2400				528
SHEET 10 OF 14 STA 261+00 TO 285+00		164	159	24	41	2400	600	667			4800	2400				528
SHEET 11 OF 14 STA 285+00 TO 309+00		166	219	24	41	2400	600	667			4800	2400		2		528
SHEET 12 OF 14 STA 309+00 TO 333+00		159	360	24	41	2400	600	667			4800	2400		2		528
SHEET 13 OF 14 STA 333+00 TO 357+00		153	433	24	41	2400	600	667			4800	2400		2		528
SHEET 14 OF 14 STA 357+00 TO 364+70.45		76	90	8	13	771	193	215		622	1540	770				170

523 30592

63940 31970

SUMMARY OF SIGNING ITEMS						
LOCATION	644	644	644	644	644	658
	6004	6007	6033	6060	6076	6062
	SUP&AM	IN SM RD SN SUP&AM TY10BWG(1) SA(U)	SUP&AM	SUP&AM	REMOVE SM RD SN SUP&AM	INSTL DEL ASSM (D-SW)SZ 1(BRF)GF2(B I)
	EA	EA	EA	EA	EA	EA
CSJ: 0814-01-036						
SHEET 1 OF 14 STA 45+00 TO 69+00	1			1	1	4
SHEET 2 OF 14 STA 69+00 TO 93+00	5			6	12	4
SHEET 3 OF 14 STA 93+00 TO 117+00	1			1	2	4
SHEET 4 OF 14 STA 117+00 TO 141+00	1				1	4
SHEET 5 OF 14 STA 141+00 TO 165+00	1				1	
SHEET 6 OF 14 STA 165+00 TO 189+00						
SHEET 7 OF 14 STA 189+00 TO 213+00				1	1	4
SHEET 8 OF 14 STA 213+00 TO 237+00						2
SHEET 9 OF 14 STA 237+00 TO 261+00	2			3	5	4
SHEET 10 OF 14 STA 261+00 TO 285+00						2
SHEET 11 OF 14 STA 285+00 TO 309+00				1	1	2
SHEET 12 OF 14 STA 309+00 TO 333+00						4
SHEET 13 OF 14 STA 333+00 TO 357+00	3			2	5	2
SHEET 14 OF 14 STA 357+00 TO 364+70.45	2	2	1	1	6	
PROJECT TOTALS	16	2	1	16	35	36

140 2246

5/23/2024 Dw://///dot DATE:

PROJECT TOTALS

3076	3076	3076	3084	6185
6001	6038	6046	6001	6002
GR HMA PG64-22	D-GR HMA TY-D PG64-22 (LEVEL-UP)	D-GR HMA TY-D SAC-B PG70-28	BONDING COURSE	TMA (STATIONAR Y)
ΤΟΝ	ΤΟΝ	TON	GAL	DAY
				283
225		962	587	
528	187	822	592	
528	8	822	592	
528	123	822	592	
528	166	822	592	
528		822	592	
528		822	592	
528		822	592	
528		822	592	
528		822	592	
528		822	592	
528		822	592	
528	218	822	592	
170	81	264	191	
6731	783	11090	7882	283



# FM 422

# QUANTITY SUMMARY

©TxD0T		SHEET	1	OF 4
CONT	SECT	JOB		HIGHWAY
0814	01	036		FM 422
DIST		COUNTY		SHEET NO.
WFS.		BAYLOR		13



	$\Lambda$	$\Delta$					$\Delta$							$\Lambda$				
SUMMARY OF DRAINAGE IT			1 144															
LOCATION	400 6005	400 6006	402 6001	403 6001	462 6051	464 6005	464 6007	464 6008	466 6097	466 6099	466 6101	466 6193	466 6194	467 6390	467 6395	467 6419	496 6005	
	CEM STABIL BKFL	CUT & RESTORING PAV		TEMPORARY SPL			RC PIPE (CL III)(30 IN)				HEADWALL (CH - PW - 0) (DIA= 36 IN)							
	СҮ	SY	LF	SF	LF	LF	LF	LF	EA	EA	EA	EA	EA	EA	EA	EA	EA	
CSJ: 0814-01-036																		-
STR 1 STA 70+19				106	57							1	1				2	
STR 2 STA 94+80																		
STR 3 STA 104+39	10	14					40							2				
STR 4 STA 129+48					57							2					2	
STR 5 STA 194+88	12	25				38								2				
STR 6 STA 198+05	6	18						46			2							
STR 7 STA 227+18	11	16					46			2								
STR 8 STA 239+51	9	16					50			2								
STR 9 STA 259+84	5	14				56								1	2			
STR 10 STA 278+59	5	14				42								2				
STR 11 STA 294+27	5	14				40								2				
STR 12 STA 311+15	8	16	27	18			44									2		
STR 13 STA 330+55	5	14				48			1					1				
STR 14 STA 344+98	9	14				44			1					1				
PROIECT TOTALS	85	175	27	124	114	268	180	46	2	4	2	3	1	11	2	2	4	



# FM 422

# QUANTITY SUMMARY



©TxD0T	203	24 SHEET	2	OF 4
CONT	SECT	JOB		HIGHWAY
0814	01	036		FM 422
DIST		COUNTY		SHEET NO.
WFS.		BAYLOR		14

		0										$\underline{1}$						
SUMMARY OF	SIDEROAD (	QUANTITIES		Т	1			104	464	467	467	467	496	530	530	530	4122	4122
								6017	6007	6363	6395	6423	490 6007	6004	6005	6016	6023	6024
LOCA	TION	SIDE ROAD NUMBER	"₩"	" <i>"L</i>	" RA	ADII	AREA	REMOVING CONC (DRIVEWAY S)	RC PIPE (CL III)(30 IN)	SET (TY II) (18 IN) (RCP) (6: 1) (P)	SET (TY II) (24 IN) (RCP) (6: 1) (P)	SET (TY II) (30 IN) (RCP) (6: 1) (P)	REMOV STR (PIPE)	DRIVEWAY S (CONC)	DRIVEWAY S (ACP)	DRIVEWA YS (BASE)	THERMO PIPE(18")(PP )(TY S)(TY II)	
STA	RT or LT	-	FT	FT	- R1	R2	SY	SY		EA	EA	EA	LF	SY	SY	SY	LF	LF
56+31.17	RT	11	22		1 15			63		271	271	271		63				2,
58+33.48	RT	12	28	_	1 15	-	77	77						77				
58+79.10	RT	13	16	_	1 15			,,						,,		49		
59+74.19	RT	14	32	_	1 15		86									86		
72+13.35	RT	15	20	_	1 15	-	58								58			
73+13.93	LT	16	16	_	1 15	-										49		
83+56.16	RT	17	20		1 30		90								90	15		
85+54.95	LT	18	48	_	1 30										155			
87+36.20	RT	19	12	_	1 15		39			2			22			39	24	
92+53.15	LT	20	12	_	1 15		39			2			22			39	24	
104+10.00	LT	20	30		1 15					2						81	42	
112+61.30	LT	22	12	_	1 15		39									39		
112+94.20	RT	23	14	_	1 15	-	44									44		
112+34.20 119+82.67	LT	24	18	-	1 15		53	L			2		44	L		53		44
121+21.66	LT	25	18	-	1 15		53				2		38		53			38
121+37.41	RT	26	14		1 15		44			2			18		44		26	
121+90.57	RT	27	14	-	1 15	-	44			2			32			44	32	
139+95.79	LT	28	14		1 15	-	44			-	2		24		44		52	32
140+28.47	RT	29	12	_	1 15					2	-		22			39	26	52
142+29.03	RT	30	18		1 30		85			2			40			85	40	
146+99.46	LT	31	18		1 30		85			2			24		85		32	
156+18.96	LT	32	20	_	1 15					2			66			58	18	
156+81.10	LT	33	10		1 15		35			2						35	24	
162+68.48	LT	34	20		1 15		58			2			32		58		32	
168+91.69	RT	35	14		1 15		44									44		
179+75.77	LT	36	20	_	1 30		90									90		
182+00.00	LT	37	30	-	1 15					2						81	44	
206+56.42	LT	38	24	-	1 15		67				2		40			67		40
208+20.78	RT	39	36	_	1 30		127			2			62			127	62	
218+00.15	RT	40	16	-	1 15		49			2			20			49	28	
236+04.10	RT	41	20	-	1 15	-	58									58		
249+08.96	RT	42	22	_	1 30		95								95			
249+09.11	LT	43	22	-	1 30										95			
252+84.24	LT	44	-	-	1 15											58		
261+28.00	RT	45	24	21	1 15	15	67									67		
274+62.00	LT	46	36	21	1 15	15	95									95		
282+59.94	LT	47			1 15											49		
289+56.87	LT	48					109									109		
289+79.42	RT	49	24		1 15										67			
296+24.00	LT	50	28		1 15											77		
301+30.42	LT	51					174									174		
302+06.00	RT	52			1 15											81		
316+40.37	RT	53			1 15										128			
317+44.77	LT	54			1 30										-	127		
320+30.00	LT	55	14		1 15					2			26			44	26	
332+38.20	LT	56	18	21	1 30	30	85			-						85		
332+77.54	RT	57			1 15					2			26			39	26	
346+87.25	LT	58			1 15					2						49	28	
358+37.00	LT	59					81			-						81		
358+67.43	RT	60					81									81		
363+27.94	LT	61			1 30				54			2			132			
		1	1.00	1~-	120	_	TAL =	140	54	34	8	0	558	140	1104	2472		154

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1. DRIVEWAYS 1 THROUGH 10 HAVE NO PROPOSED WORK

©TxD0T

1 REVISED 5/23/24

 CONT
 SECT

 0814
 01

 DIST

 WFS.

Texas Department of Transportation FM 422

QUANTITY SUMMARY

JOB

036

COUNTY BAYLOR

SHEET 3 OF 4

HIGHWAY

SHEET NO. 15

							D.S. CH	ANNEL			FR	EQ = 10 YR	ł				F	REQ = 100	YR	YR	
070		DECODIDITION	CROWN	LENGTH		ULV						NORMAL	VELOC	NTY			-	NORMAL	VELO	CITY	
STR	UCTURE	DESCRIPTION	ELEVATION	(FT)	SLOPE	Manning	SLOPE (%)	Manning "n"	Q	HW	TW	DEPTH	TAILWATER	OUTLET	Q	HW	тw	DEPTH	TAILWATER	OUTLE	
					(%)	"n"	(,,,)		(CFS)	(FT)	(FT)	(FT)	(FT/S)	(FT/S)	(CFS)	(FT)	(FT)	(FT)	(FT/S)	(FT/S)	
1	EXIST	1- 5X3 BOX	1342.40	27.00	0.81%	0.012	1.20%	0.03	592.6	1339.05	2.41	1.17	8.78	11.28	1576	1343.08	4.55	2.04	12.36	10.40	
	PROP	1- 5X3 BOX	1342.40	46.00	0.81%	0.012	1.20 /0	0.03	592.0	1339.14	2.41	1.16	8.78	11.33	1570	1343.10	4.55	2.02	12.36	10.37	
2	EXIST	1-24" RCP	1361.20	38.00	2.10%	0.12	1.20%	0.03	14.7	1362.35	1.19	0.90	4.13	4.68	24.8	1363.27	1.76	1.07	4.71	11.59	
Z	PROP	SEE EXISTING	1301.20				1.2076	0.05	14.7						24.0						
3	EXIST	1-24" CMP	1370.83	38.00	2.00%	0.024	2.80%	0.03	18.6	1370.11	1.04	2.00	5.98	6.25	31.3	1370.94	1.52	2.00	6.87	6.73	
5	PROP	1-30" RCP	1370.03	40.00	0.73%	0.012	2.00 /8	0.05	10.0	1369.73	1.04	1.03	5.98	6.16	51.5	1370.08	1.52	1.18	6.87	11.93	
4	EXIST	1- 5X3 BOX	1367.00	27.00	0.75%	0.012	1.20%	0.03	241.2	1364.03	1.37	0.67	6.29	7.95	742.9	1365.89	2.79	1.37	9.52	12.00	
4	PROP	1- 5X3 BOX	1307.00	56.00	0.75%	0.012	1.2078	0.05	241.2	1364.09	1.37	0.69	6.29	7.82	742.5	1366.01	2.79	1.39	9.52	5.50	
5	EXIST	1-24" CMP	1406.30	37.00	1.66%	0.024	1.20%	0.03	0.2	1403.50	0.07	0.16	0.92	0.21	0.4	1403.60	0.11	0.22	1.20	0.39	
5	PROP	1-24" RCP	1400.30	37.00	1.66%	0.012	1.20 /0	0.05	0.2	1403.49	0.07	0.11	0.92	0.21	0.4	1403.57	0 <u>.</u> 11	0.16	1.20	0.39	
6	EXIST	1-36" CMP	1407.00	40.00	0.33%	0.024	0.60%	0.03	7.4	1404.15	0.93	1.24	2.65	3.31	12.4	1404.56	1.35	1.68	3.06	3.56	
0	PROP	1-36" RCP	1407.00	46.00	0 0.33% 0.012	0.00 %	0.05	7.4	1404.33	0.93	0.86	2.65	3.22	12.4	1404.71	1.35	1.12	3.06	3.50		
7	EXIST	1-30" CMP	1422.90	37.00	3.51%	0.024	- 2.00% 0.03	0.03	15.3	1420.99	1.02	1.05	5.02	3.22	25.7	1422.01	1.49	1.42	5.76	8.94	
'	PROP	1-30" RCP	1422.90	46.00	3.51%	0.012		0.05	13.5	1421.13	1.02	0.72	5.02	13.05	23.7	1421.95	1.49	0.95	5.76	15.0	
8	EXIST	1-30" CMP	1431.20	37.00	0.59%	0.024	2.40%	0.03	15.3	1428.53	0.95	1.84	5.35	5.82	25.7	1429.54	1.39	2.50	6.17	7.1	
0	PROP	1-30" RCP	1431.20	49.00	0.59%	0.012	2.4078	0.05	13.5	1428.42	0.95	1 <u>.</u> 18	5.35	5.82	23.7	1429.24	1.39	1.63	6.17	7.10	
9	EXIST	1-24" CMP	1418.60	38.00	3.68%	0.024	3.00%	0.03	9.9	1417.32	0.65	0.90	5.07	7 <u>.</u> 18	16.5	1418.29	0.93	1.23	5.92	8.12	
9	PROP	1-24" RCP	1410.00	47.00	3.68%	0.012	3.00%	0.03	9.9	1417.35	0.65	0.61	5.07	12.19	10.5	1418.10	0.93	0.80	5.92	14.0	
10	EXIST	1-24" CMP	1398.60	37.00	2.24%	0.024	1.00%	0.03	6.4	1395.82	0.70	0.81	3.03	2.48	10.7	1396.37	1.01	1.10	3.54	3.54	
10	PROP	1-24" RCP	1390.00	41.00	2.24%	0.012	1.00 %	0.03	0.4	1395.83	0.70	0.56	3.03	2.34	10.7	1396.31	1.01	0.74	3.54	3.45	
11	EXIST	1-18" CMP	1409.00	36.00	4.61%	0.024	3.40%	0.03	2.2	1406.83	0.23	0.43	3.14	5.25	3.7	1407.13	0.33	0.57	3.79	6.07	
11	PROP	1-24" RCP	1409.00	40.00	4.61%	0.012	3.4078	0.03	2.2	1406.70	0.23	0.28	3.14	8.30	5.7	1406.92	0.33	0.36	3.79	9.65	
12	EXIST	1-24" CMP	1395.20	43.00	0.50%	0.024	1.80%	0.03	9.3	1391.29	0.74	2.00	4.17	5.32	20.5	1392.20	1.08	2.00	4.87	6.54	
12	PROP	1-24" RCP	1333.20	43.00	0.50%	0.012	1.00 /0	0.03	9.5	1391.18	0.61	1.04	5.08	5.32	20.5	1391.89	0.88	1.49	5.97	6.54	
13	EXIST	1-24" CMP	1368,12	34.00	0.59%	0.024	3,20%	0.03	12.3	1366.80	0.74	2.00	5.55	5.90	2.1	1368.15	1.06	2.00	6.45	7.19	
13	PROP	1-24" RCP	1300,12	40.00	0.59%	0.012	3.20%	0.03	12.3	1366.66	0.74	1.17	5.55	5.90	2.1	1367.73	1.06	2.00	6.45	7.5	
14	EXIST	1-18" CMP	1353.53	36.00	0.78%	0.024	1 900/	0.02	1.2	1350.49	0.19	0.50	2.06	2.50	- 0	1350.71	0.28	0.68	2.52	3.5	
14	PROP	1-24" RCP	1353.53	44.00	0.78%	0.012	1.80%	0.03	'-2	1350.41	0.19	0.32	2.06	1.78	U	1350.59	0.28	0.42	2.52	2.5	

05/23/2024

DN: CK: DW:

ЫM 2:20:48 H 5/23/2024 DATE:

GENERAL NOTES:

1. PRECIPITATION DEPTHS USED WERE OBTAINED FROM NOAA ATLAS 14, VOLUME 11, VERSION 2, OF DEPTH- DURATION FREQUENCY OF PRECIPITATION ANNUAL MAXIMA (AMS) FOR TEXAS LOCATION: SEYMOUR, TX LAT: 33.6325°LON: -99.2897°

2. LAG TIME = 0.7 X TIME OF CONCENTRATION (Tc)

3. COMPOSITE CURVE NUMBERS WERE CALCULATED USING NRCS CN LOSS MODEL AND ACCOUNTED FOR DIFFERING LAND USE AND HYDROLOGICAL SOIL GROUPS FOUND WITHIN THE RESPECTIVE WATERSHED BY USING THE WEB SOIL SURVEY.

COMPUTATIONAL NOTES:

1. THERE HAS BEEN NO HISTORY OF ANY FLOODING OF THE ROADWAY FOR ALL STRUCTURES LISTED AS PER AREA ENGINEER ZACH HUSEN AND MAINTENANCE SUPERVISOR CRAIG HOSTAS.

2. THESE CALCULATIONS WERE PERFORMED TO VERIFY THAT THE MODIFICATIONS DO NOT SIGNIFICANTLY IMPACT HYDRAULIC PERFORMANCE.

3. RESULTS WERE BASED ON UNOBSTRUCTED FLOW.

4. NO WORK IS TO BE PERFORMED ON STRUCTURE 2



Texas Department of Transportation

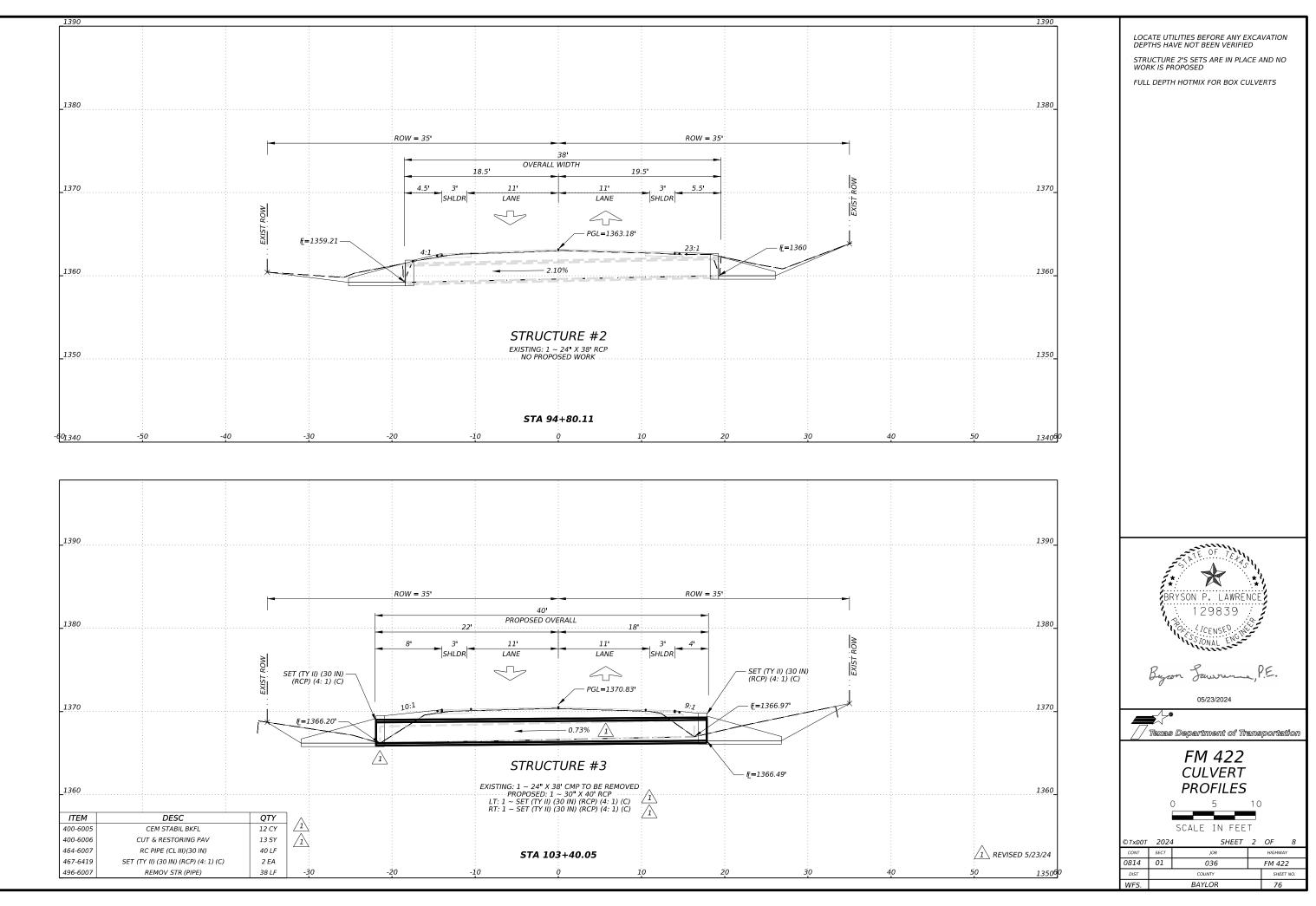
FM 422

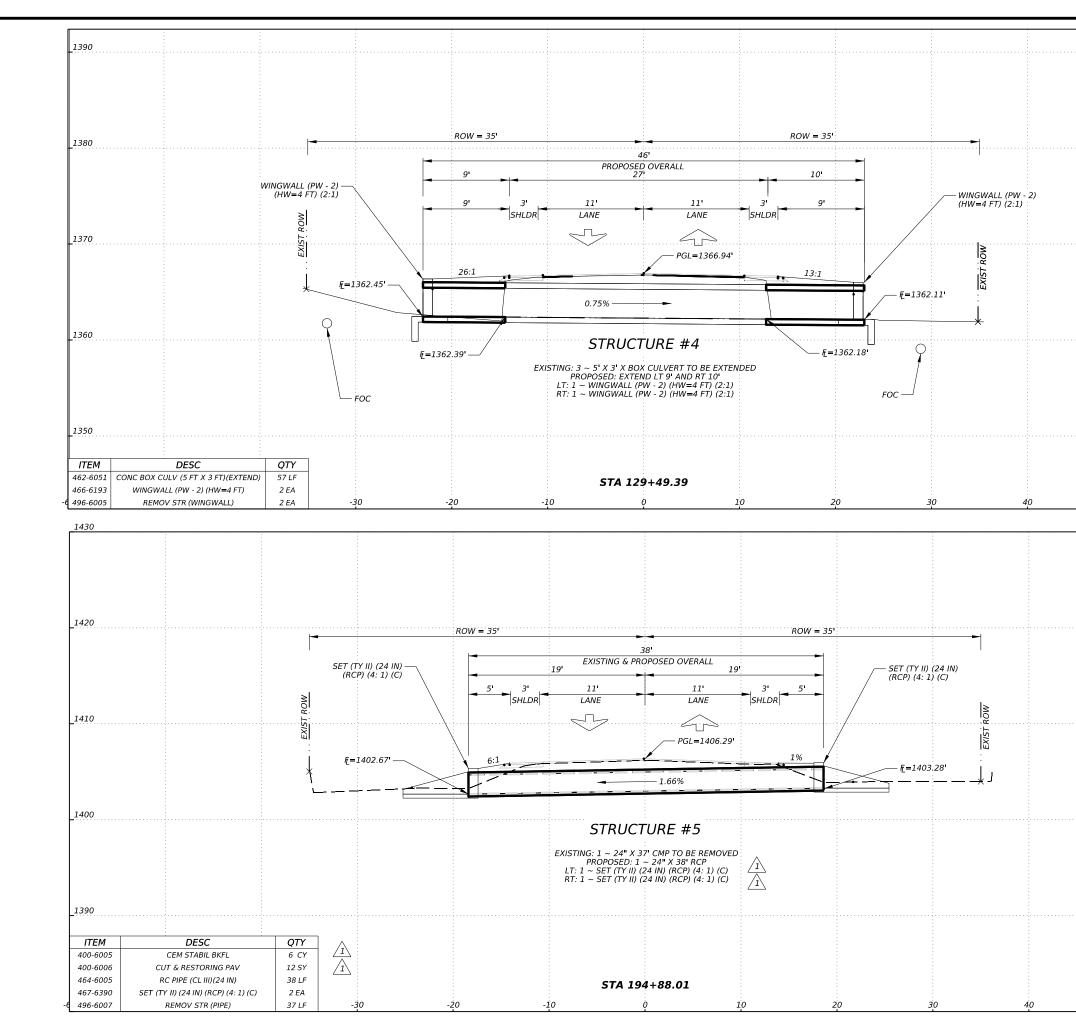
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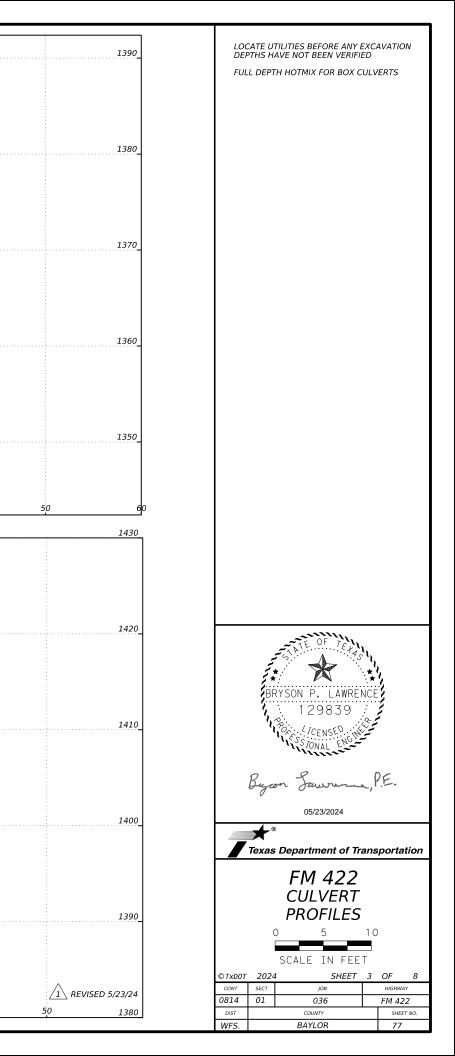
©TxD0T	2024	SHEET	1	OF	1
CONT	SECT	JOB	HIGHWAY		
0814	01	036	FM 422		
DIST	COUNTY			SHEET NO.	
WFS.	BAYLOR			74	

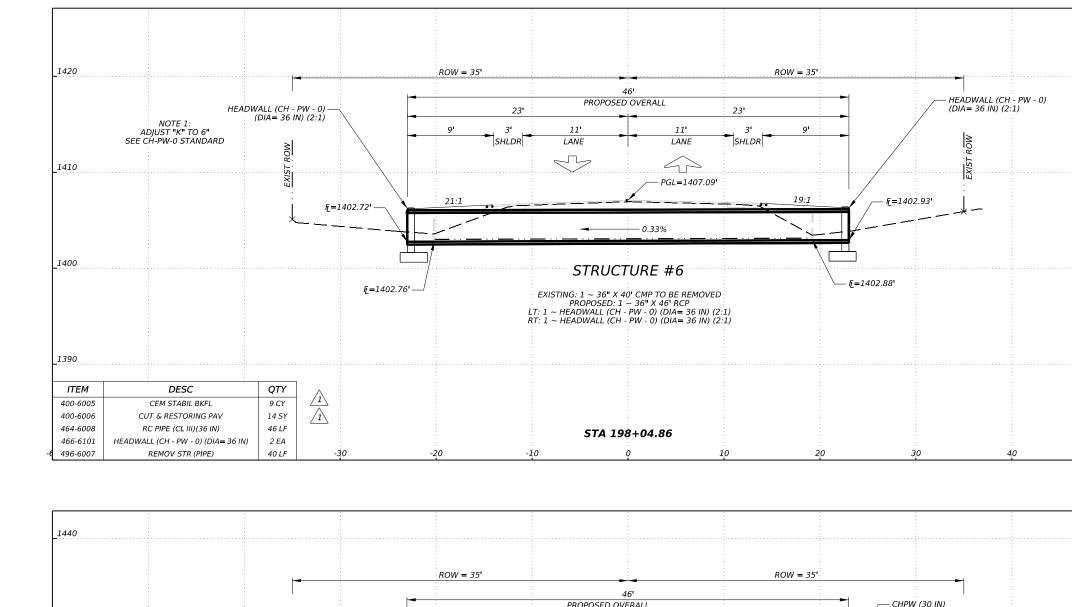
Revised 5/2	3/24
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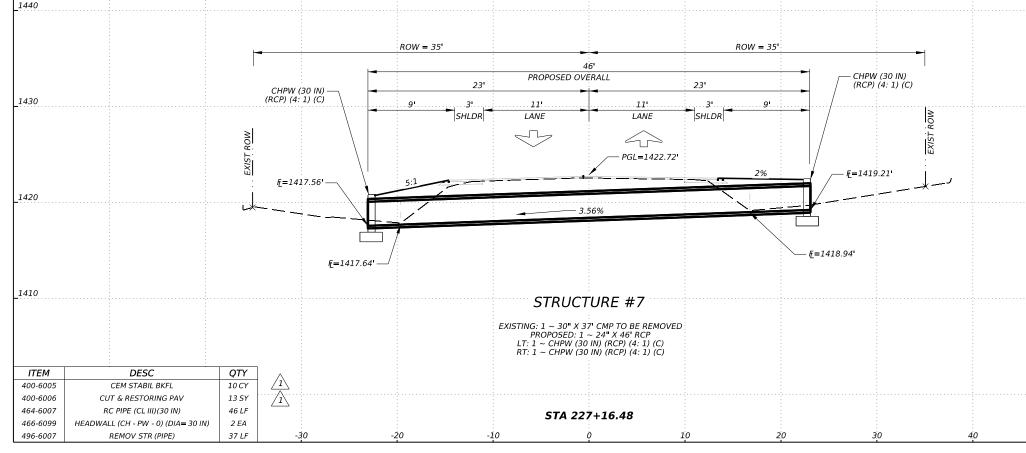
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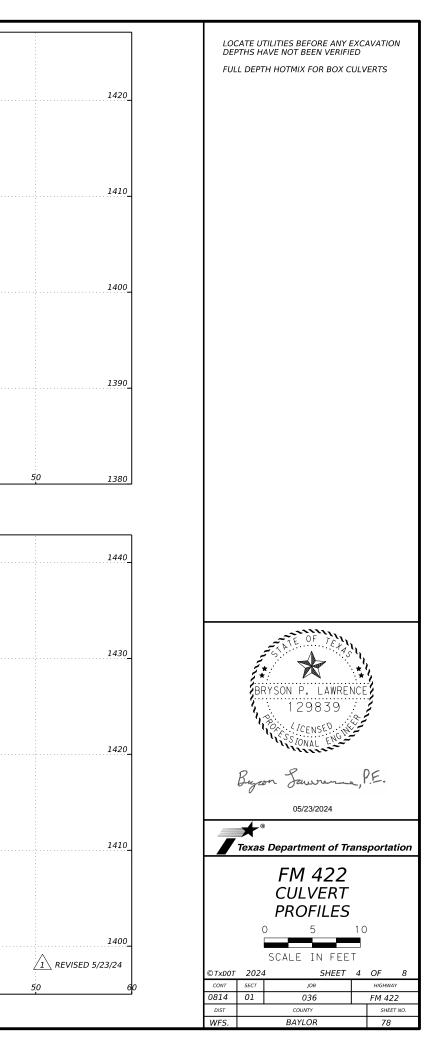


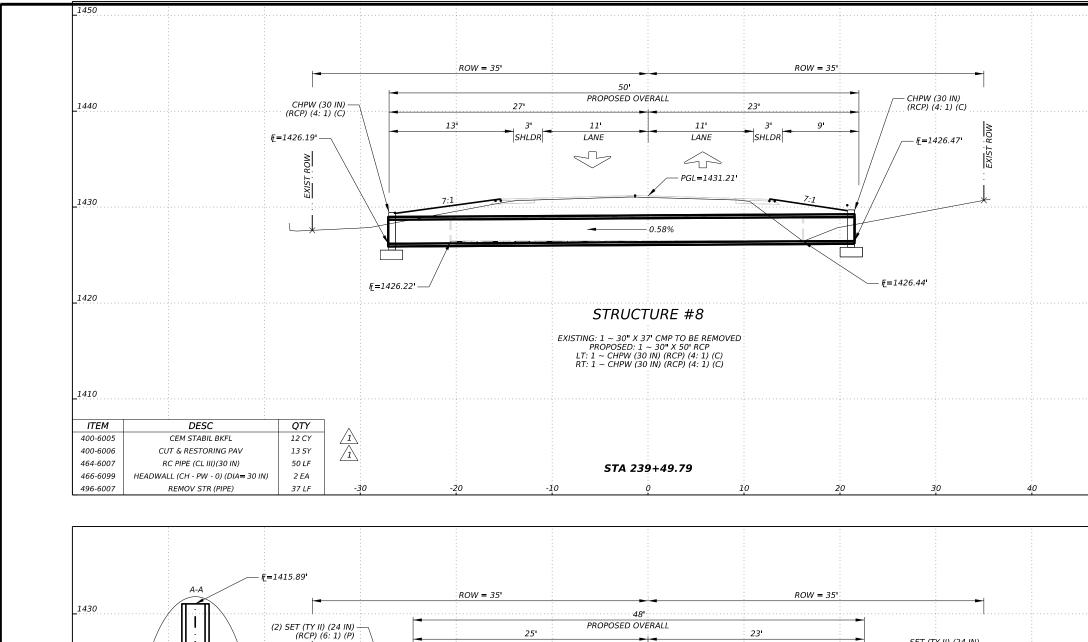


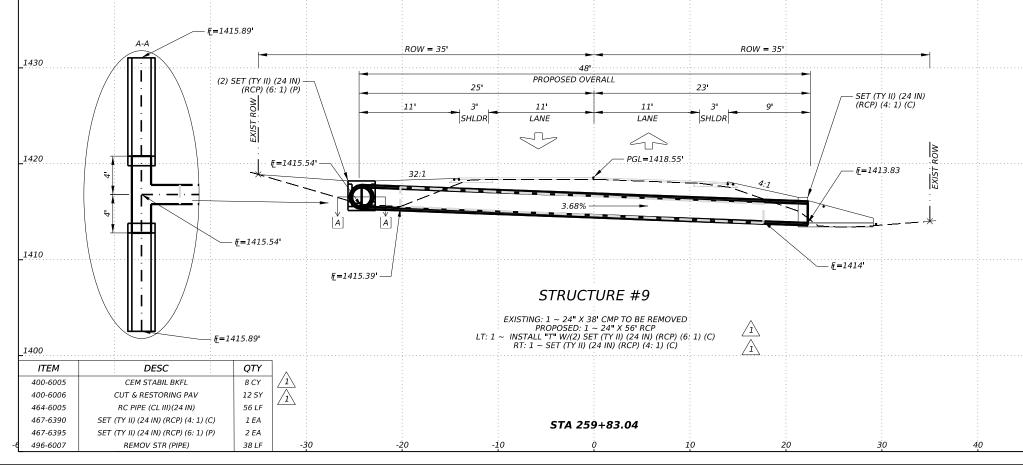


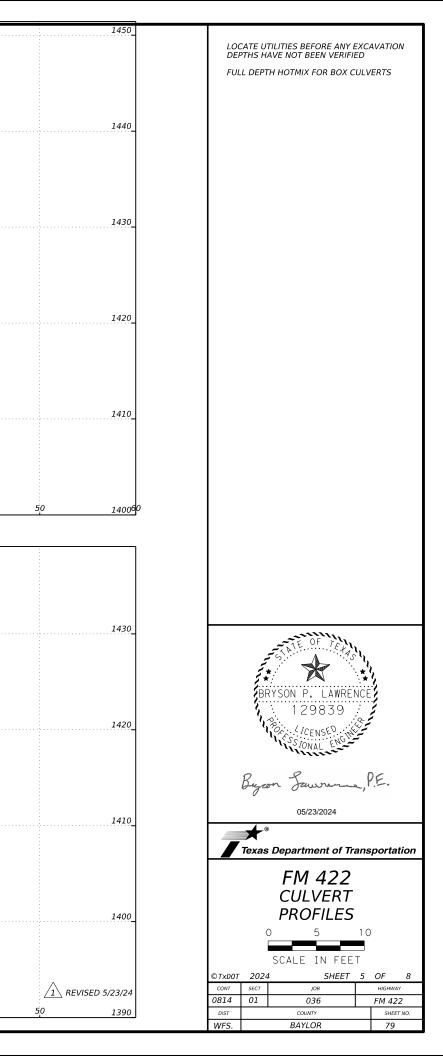


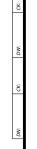
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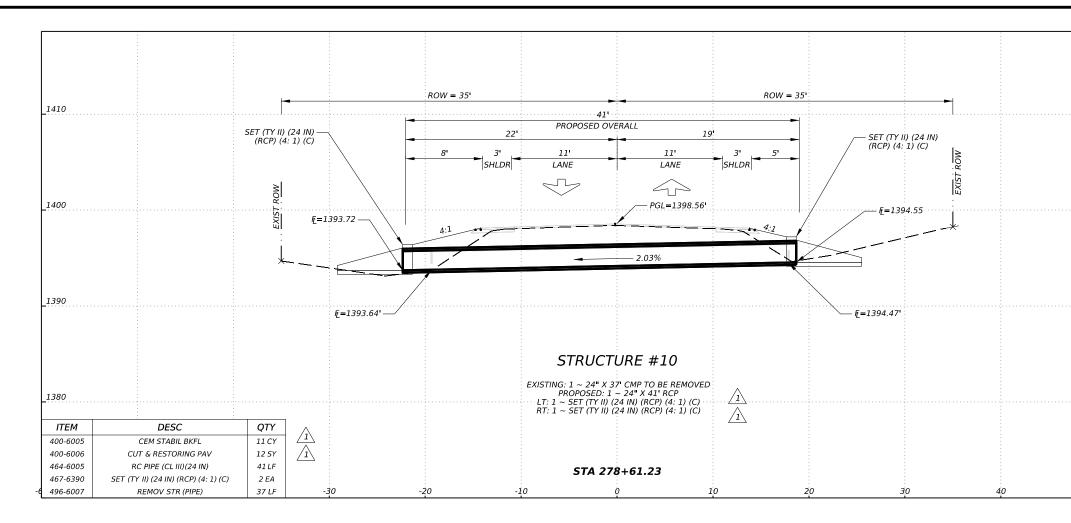


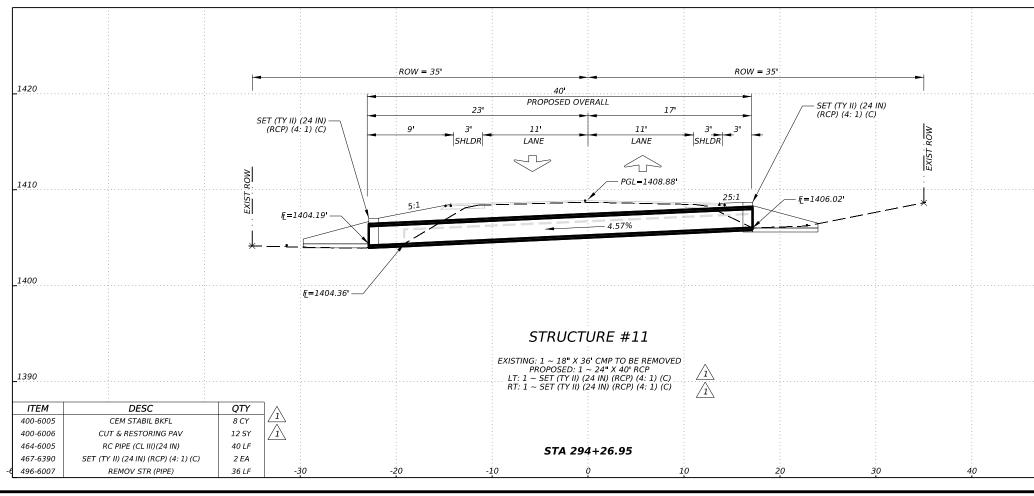


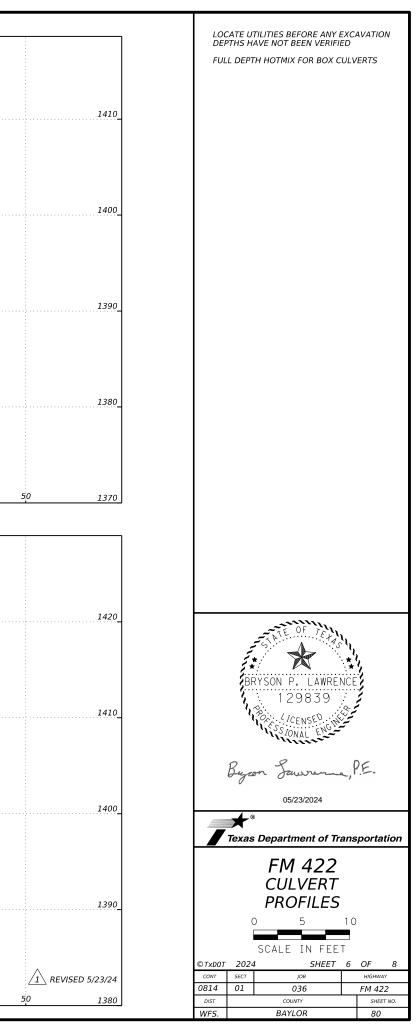


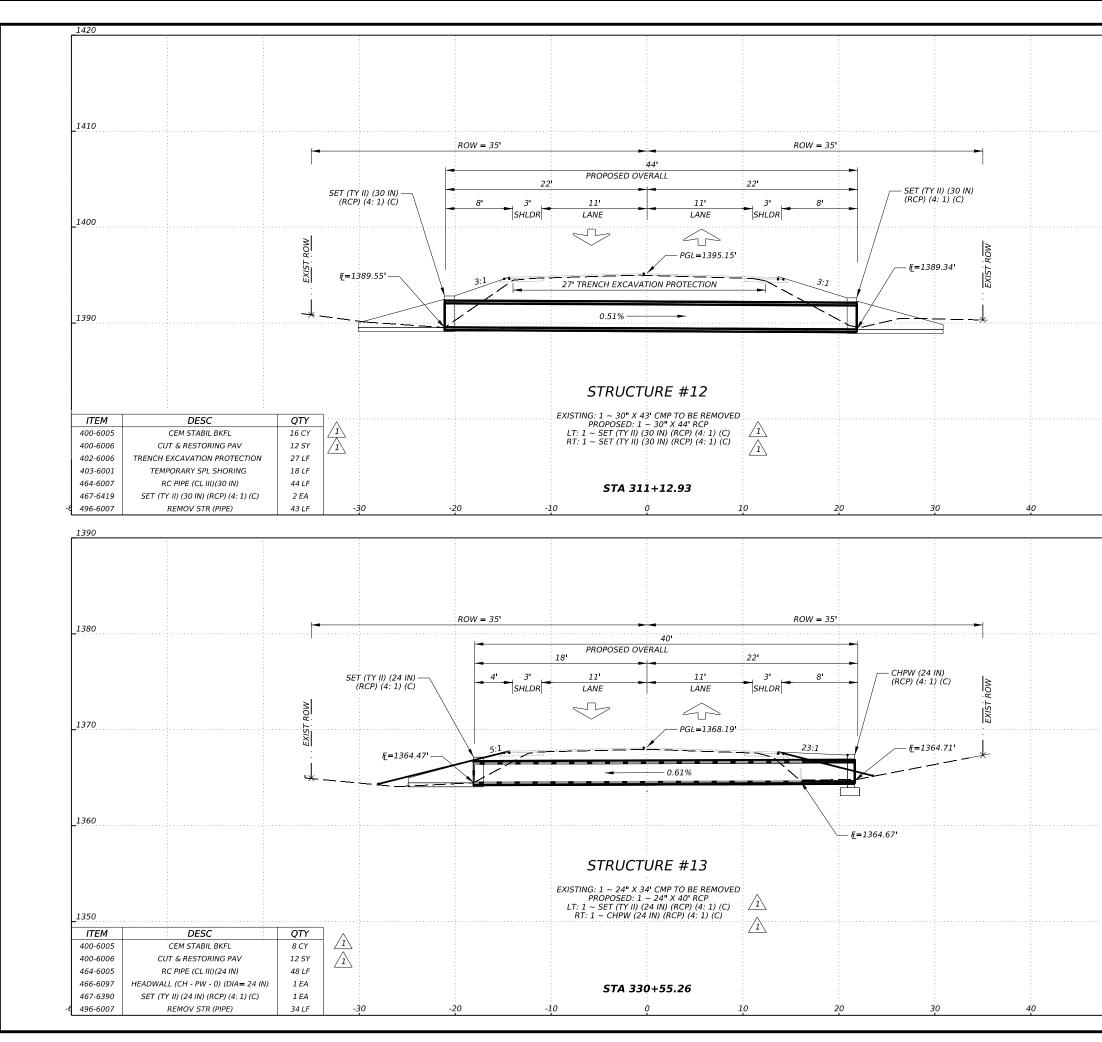












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