

SUBJECT: PLANS AND PROPOSAL ADDENDUMS

PROJECT: C 1597-4-12

CONTROL: 1597-04-012

COUNTY: COMANCHE

LETTING: 08/03/2023

REFERENCE NO: 0727

PROPOSAL ADDENDUMS

-
- PROPOSAL COVER
 - BID INSERTS (SH. NO.: ALL)
 - GENERAL NOTES (SH. NO.: H)

 - SPEC LIST (SH. NO.:)
 - SPECIAL PROVISIONS:)
 - ADDED:

 - DELETED:

 - SPECIAL SPECIFICATIONS:
 - ADDED:

 - DELETED:

 - OTHER: PLAN SHEET AND OTHER CHANGES

DESCRIPTION OF ABOVE CHANGES
(INCLUDING PLANS SHEET CHANGES)

***** BID INSERTS *****

REVISED QUANTITIES FOR THE FOLLOWING BID ITEMS:
420-6051, 467-6143, 467-6217

ADDED THE FOLLOWING BID ITEMS:
420-6057, 420-6141, 420-6177

***** GENERAL NOTES *****

SHEET H: REMOVED GENERAL NOTES FOR ITEM 500

***** PLAN SHEETS *****

REPLACED SHEETS: 3C, 5, 5A-5B, 97, 110, 113

Process the top one inch (1") of base material to be finished for final surfacing with emulsified asphalt to conform with the typical sections shown on the plans and to the established lines and grades as directed.

The percent of emulsified asphalt in the mixture of asphalt and water will be from 5% to 15% as directed by the Engineer.

ITEM 401 FLOWABLE BACKFILL

All flowable backfill will be "Non-Excavatable" unless otherwise specified.

ITEM 420 CONCRETE SUBSTRUCTURES

Culverts will be constructed in conjunction with roadway construction phasing, unless otherwise directed by the Engineer.

All Class C Concrete has been measured for plan quantity payment.

Unless otherwise shown on the plans, all culvert extensions and safety end treatments will conform to the existing culvert slope.

Concrete shall not be placed when forecasted temperature is projected to fall below 32 degrees within 72 hours of placement according to NOAA for the project location.

ITEM 421 HYDRAULIC CEMENT CONCRETE

Furnish dome lids with 4" x 8" cylinder test molds.

Strength testing equipment is not required for Contract controlling test.

ITEM 427 SURFACE FINISHES FOR CONCRETE

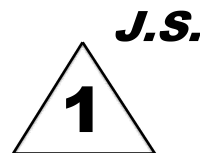
Surface Area II will receive a rub finish.

ITEM 432 RIPRAP

Locations and quantities may be varied as directed by the Engineer to accommodate field conditions.

Mow Strip(s) will be installed before the final lift of ACP is installed.

Riprap (Conc) (Cl B) is required inside all Type I safety end treatments, unless otherwise directed by the Engineer.



ADDENDUM #1, 7/27/2023, REPLACE SHEET

Limit excavation to within 1' of riprap. If excavation exceeds these limits without the Engineer's approval, riprap will be extended to the limits of the disturbance. No additional compensation will be allowed for this work.

Meet the following requirements when using fiber reinforcement:

- Use Class A Concrete for riprap.
- Use an approved method that ensure adequate concrete consolidation. Sprinkle and consolidate the subgrade before the concrete is placed. Finish the surface with wood float or broom finish as approved. Immediately after finishing operation, cure the riprap according to Item 420 "Concrete Structures".
- Reinforce with fibers made from 100% virgin homopolymer graded, fibrillated polypropylene fibers, containing no reprocessed olefin materials, conforming to ASTM C1116 Types I and III. The polypropylene fibers will be of a multi-length gradation, with no fibers over 2" in length, alkali-resistant and absorptive. Minimum dosage will be 3 lbs/cubic yard of concrete. The minimum average residual strength is 80 psi, per ASTM C13989. Provide evidence of material performance in concrete.

ITEM 502 BARRICADES, SIGNS, AND TRAFFIC HANDLING

The Contractor will be required to keep all TCP devices clean. If notified by the Engineer to clean the TCP devices, the Contractor will have until the end of that daylight period to comply. Failure to comply will result in a suspension of all work until the TCP devices are clean. Time will not be suspended.

Work zone lengths will be limited to 2 mile sections unless otherwise approved by the Engineer. Passing zones shall be verified by the Engineer prior to any work being done.

The Contractor Force Account "Safety Contingency" that has been established for this project is intended to be utilized for work zone enhancements, to improve the effectiveness of the Traffic Control Plan, that could not be foreseen in the project planning and design stage. These enhancements will be mutually agreed upon by the Engineer and the Contractor's Responsible Person based on weekly or more frequent traffic management reviews on the project. The Engineer may choose to use existing bid items if it does not slow the implementation of enhancement.

The Engineer will determine the locations of regulatory construction speed zone signs. The Contractor will furnish, install and remove speed zone signs at locations as directed by the Engineer.

Excavations in Intersections adjacent to travel lanes will not be exposed or open overnight. Backfilling will take place the day excavations are made.

The Contractor will be responsible for maintaining the edge of the roadway throughout the project in a traversable condition and/or as directed by the Engineer. Salvaged milling may be used as directed by the



Estimate & Quantity Sheet

CONTROLLING PROJECT ID 1597-04-012

DISTRICT Brownwood
HIGHWAY FM 1702

COUNTY Comanche

CONTROL SECTION JOB				1597-04-012		TOTAL EST.	TOTAL FINAL
PROJECT ID				A00187050			
COUNTY				Comanche			
HIGHWAY				FM 1702			
ALT	BID CODE	DESCRIPTION	UNIT	EST.	FINAL		
	100-6002	PREPARING ROW	STA	321.000		321.000	
	110-6001	EXCAVATION (ROADWAY)	CY	30,136.000		30,136.000	
	110-6002	EXCAVATION (CHANNEL)	CY	45.000		45.000	
	110-6003	EXCAVATION (SPECIAL)	CY	1,145.000		1,145.000	
	132-6001	EMBANKMENT (FINAL)(ORD COMP)(TY A)	CY	12,337.000		12,337.000	
	164-6001	BROADCAST SEED (PERM) (RURAL) (SANDY)	SY	82,800.000		82,800.000	
	164-6009	BROADCAST SEED (TEMP) (WARM)	SY	41,400.000		41,400.000	
	164-6011	BROADCAST SEED (TEMP) (COOL)	SY	41,400.000		41,400.000	
	168-6001	VEGETATIVE WATERING	MG	1,859.000		1,859.000	
	216-6001	PROOF ROLLING	HR	40.000		40.000	
	247-6053	FL BS (CMP IN PLC)(TYD GR1-2)(FNAL POS)	CY	39,266.000		39,266.000	
	276-6067	CM TRT(PT MX)(CL L)(TY C)(GR 3)(FN POS)	CY	103.000		103.000	
	314-6007	EMULS ASPH (BS OR SUBGR TRT)(AE-P)	GAL	32,012.000		32,012.000	
	316-6173	AGGR(TY-B GR-3 SAC-B)	CY	1,256.000		1,256.000	
	316-6532	ASPH (CRS-2 OR CRS-2H OR CRS2P)	GAL	55,486.000		55,486.000	
	334-6102	HMCL ACP TY-F SAC-B AC-1.5	TON	44.000		44.000	
	401-6001	FLOWABLE BACKFILL	CY	199.000		199.000	
	420-6051	CL C CONC (CULV)	CY	19.700		19.700	
	420-6057	CL C CONC (WINGWALLS)	CY	57.900		57.900	
	420-6141	CL C CONC (CURB)	CY	1.300		1.300	
	420-6177	CL C CONC (CULV)(EXTEND)	CY	19.300		19.300	
	420-6225	CL S CONC (CULV)(EXTEND)	CY	9.900		9.900	
	432-6002	RIPRAP (CONC)(5 IN)	CY	24.100		24.100	
	432-6033	RIPRAP (STONE PROTECTION)(18 IN)	CY	53.000		53.000	
	432-6035	RIPRAP (STONE PROTECTION)(24 IN)	CY	74.000		74.000	
	432-6045	RIPRAP (MOW STRIP)(4 IN)	CY	40.000		40.000	
	450-6018	RAIL (TY T631)	LF	144.000		144.000	
	458-6007	WATERPROOFING (TY 10)	SY	20.000		20.000	
	459-6009	GABIONS (3' X 3')(GALV)	CY	100.000		100.000	
	460-6010	CMP AR (GAL STL DES 3)	LF	1,209.000		1,209.000	
	460-6011	CMP AR (GAL STL DES 4)	LF	71.000		71.000	
	464-6005	RC PIPE (CL III)(24 IN)	LF	135.000		135.000	
	464-6007	RC PIPE (CL III)(30 IN)	LF	144.000		144.000	
	464-6008	RC PIPE (CL III)(36 IN)	LF	208.000		208.000	
	467-6111	SET (TY I)(S=3 FT)(HW= 4 FT)(3:1)(C)	EA	3.000		3.000	
	467-6143	SET (TY I)(S= 4 FT)(HW= 4 FT)(3:1) (C)	EA	2.000		2.000	
	467-6175	SET (TY I)(S= 5 FT)(HW= 4 FT)(3:1) (C)	EA	2.000		2.000	



ADDENDUM #1, 7/27/2023, REPLACE SHEET

DISTRICT	COUNTY	CCSJ	SHEET
Brownwood	Comanche	1597-04-012	5



CONTROLLING PROJECT ID 1597-04-012

DISTRICT Brownwood
HIGHWAY FM 1702

COUNTY Comanche

Estimate & Quantity Sheet

CONTROL SECTION JOB				1597-04-012		TOTAL EST.	TOTAL FINAL
PROJECT ID				A00187050			
COUNTY				Comanche			
HIGHWAY				FM 1702			
ALT	BID CODE	DESCRIPTION	UNIT	EST.	FINAL		
	467-6181	SET (TY I)(S= 5 FT)(HW= 5 FT)(3:1) (C)	EA	2.000		2.000	
	467-6217	SET (TY I)(S= 6 FT)(HW= 5 FT)(3:1) (C)	EA	5.000		5.000	
	467-6223	SET (TY I)(S= 6 FT)(HW= 6 FT)(3:1) (C)	EA	3.000		3.000	
	467-6256	SET (TY I)(S= 7 FT)(HW= 7 FT)(3:1) (C)	EA	2.000		2.000	
	467-6388	SET (TY II) (24 IN) (RCP) (3: 1) (C)	EA	2.000		2.000	
	467-6390	SET (TY II) (24 IN) (RCP) (4: 1) (C)	EA	4.000		4.000	
	467-6417	SET (TY II) (30 IN) (RCP) (3: 1) (C)	EA	1.000		1.000	
	467-6419	SET (TY II) (30 IN) (RCP) (4: 1) (C)	EA	5.000		5.000	
	467-6448	SET (TY II) (36 IN) (RCP) (3: 1) (C)	EA	5.000		5.000	
	467-6537	SET (TY II) (DES 3) (CMP) (6: 1) (P)	EA	68.000		68.000	
	467-6551	SET (TY II) (DES 4) (CMP) (6: 1) (P)	EA	2.000		2.000	
	496-6016	REMOV STR (PIPE)	EA	23.000		23.000	
	500-6001	MOBILIZATION	LS	1.000		1.000	
	502-6001	BARRICADES, SIGNS AND TRAFFIC HANDLING	MO	13.000		13.000	
	506-6001	ROCK FILTER DAMS (INSTALL) (TY 1)	LF	220.000		220.000	
	506-6002	ROCK FILTER DAMS (INSTALL) (TY 2)	LF	400.000		400.000	
	506-6011	ROCK FILTER DAMS (REMOVE)	LF	620.000		620.000	
	506-6038	TEMP SEDMT CONT FENCE (INSTALL)	LF	7,056.000		7,056.000	
	506-6039	TEMP SEDMT CONT FENCE (REMOVE)	LF	7,056.000		7,056.000	
	506-6041	BIODEG EROSN CONT LOGS (INSTL) (12")	LF	2,672.000		2,672.000	
	506-6043	BIODEG EROSN CONT LOGS (REMOVE)	LF	2,672.000		2,672.000	
	510-6004	ONE-WAY TRAFFIC CONTROL (PORT TRAF SIG)	DAY	70.000		70.000	
	529-6014	CONC CURB (MOD) (TYPE I)	LF	737.000		737.000	
	530-6006	DRIVEWAYS (SURF TREAT)	SY	2,649.000		2,649.000	
	530-6008	TURNOUTS (ACP)	SY	104.000		104.000	
	530-6022	INTERSECTIONS (ACP) (TYPE 1)	SY	1,553.000		1,553.000	
	530-6023	INTERSECTIONS (ACP) (TYPE 2)	SY	3,665.000		3,665.000	
	533-6001	RUMBLE STRIPS (SHOULDER)	LF	62,670.000		62,670.000	
	533-6002	RUMBLE STRIPS (CENTERLINE)	LF	30,980.000		30,980.000	
	540-6001	MTL W-BEAM GD FEN (TIM POST)	LF	400.000		400.000	
	544-6001	GUARDRAIL END TREATMENT (INSTALL)	EA	4.000		4.000	
	552-6003	WIRE FENCE (TY C)	LF	75.000		75.000	
	556-6007	PIPE UNDERDRAINS (TY 7) (6")	LF	1,000.000		1,000.000	
	560-6007	MAILBOX INSTALL-S (WC-POST) TY 3	EA	7.000		7.000	
	644-6004	IN SM RD SN SUP&AM TY10BWG(1)SA(T)	EA	7.000		7.000	
	644-6033	IN SM RD SN SUP&AM TYS80(1)SA(U)	EA	1.000		1.000	
	644-6038	IN SM RD SN SUP&AM TYS80(1)SA(U-EXAL)	EA	2.000		2.000	



ADDENDUM #1, 7/27/2023, REPLACE SHEET

DISTRICT	COUNTY	CCSJ	SHEET
Brownwood	Comanche	1597-04-012	5A



CONTROLLING PROJECT ID 1597-04-012

DISTRICT Brownwood
HIGHWAY FM 1702

COUNTY Comanche

Estimate & Quantity Sheet

CONTROL SECTION JOB				1597-04-012		TOTAL EST.	TOTAL FINAL
PROJECT ID				A00187050			
COUNTY				Comanche			
HIGHWAY				FM 1702			
ALT	BID CODE	DESCRIPTION	UNIT	EST.	FINAL		
	644-6060	IN SM RD SN SUP&AM TYTWT(1)WS(P)	EA	48.000		48.000	
	644-6061	IN SM RD SN SUP&AM TYTWT(1)WS(T)	EA	10.000		10.000	
	644-6076	REMOVE SM RD SN SUP&AM	EA	68.000		68.000	
	658-6062	INSTL DEL ASSM (D-SW)SZ 1(BRF)GF2(BI)	EA	15.000		15.000	
	658-6073	INSTL OM ASSM (OM-2Y)(WC)GND(BI)	EA	32.000		32.000	
	662-6008	WK ZN PAV MRK NON-REMOV (W)6"(SLD)	LF	1,320.000		1,320.000	
	662-6016	WK ZN PAV MRK NON-REMOV (W)24"(SLD)	LF	24.000		24.000	
	662-6037	WK ZN PAV MRK NON-REMOV (Y)6"(SLD)	LF	3,200.000		3,200.000	
	662-6050	WK ZN PAV MRK REMOV (REFL) TY II-A-A	EA	80.000		80.000	
	662-6111	WK ZN PAV MRK SHT TERM (TAB)TY Y-2	EA	6,416.000		6,416.000	
	666-6048	REFL PAV MRK TY I (W)24"(SLD)(100MIL)	LF	134.000		134.000	
	666-6309	RE PM W/RET REQ TY I (W)6"(SLD)(100MIL)	LF	63,270.000		63,270.000	
	666-6318	RE PM W/RET REQ TY I (Y)6"(BRK)(100MIL)	LF	4,768.000		4,768.000	
	666-6321	RE PM W/RET REQ TY I (Y)6"(SLD)(100MIL)	LF	41,648.000		41,648.000	
	672-6009	REFL PAV MRKR TY II-A-A	EA	760.000		760.000	
	677-6001	ELIM EXT PAV MRK & MRKS (4")	LF	860.000		860.000	
	685-6005	RELOCT RDS D FLSH BCN AM (SOLAR PWRD)	EA	1.000		1.000	
	3077-6066	SP MIXESSP-DSAC-B PG76-22	TON	9,671.000		9,671.000	
	3084-6001	BONDING COURSE	GAL	14,939.000		14,939.000	
	6001-6001	PORTABLE CHANGEABLE MESSAGE SIGN	DAY	442.000		442.000	
	6056-6001	PREFORMED IN-LANE(TRANS) RUMBLE STRIP	LF	440.000		440.000	
	6185-6002	TMA (STATIONARY)	DAY	150.000		150.000	
	6185-6003	TMA (MOBILE OPERATION)	HR	160.000		160.000	
	08	CONTRACTOR FORCE ACCOUNT SAFETY CONTINGENCY (NON-PARTICIPATING)	LS	1.000		1.000	
		CONTRACTOR FORCE ACCOUNT EROSION CONTROL MAINTENANCE (NON-PARTICIPATING)	LS	1.000		1.000	



ADDENDUM #1, 7/27/2023, REPLACE SHEET

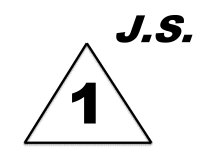
DISTRICT	COUNTY	CCSJ	SHEET
Brownwood	Comanche	1597-04-012	5B

ITEM	CODE	DESCRIPTION	QUANT	UNIT	FINAL
0420	6057	CL C CONC (WINGWALLS)	57.9	CY	
0420	6141	CL C CONC (CURB)	1.3	CY	
0420	6177	CL C CONC (CULV)(EXTEND)	19.3	CY	
0420	6225	CL S CONC (CULV) (EXTEND)	9.9	CY	
0432	6033	RIPRAP (STONE PROTECTION)(18 IN)	24.0	CY	
0432	6035	RIPRAP (STONE PROTECTION)(24 IN)	74.0	CY	
0450	6018	RAIL (T631)	144.0	LF	
0458	6007	WATERPROOFING (TY 10)	9	SY	

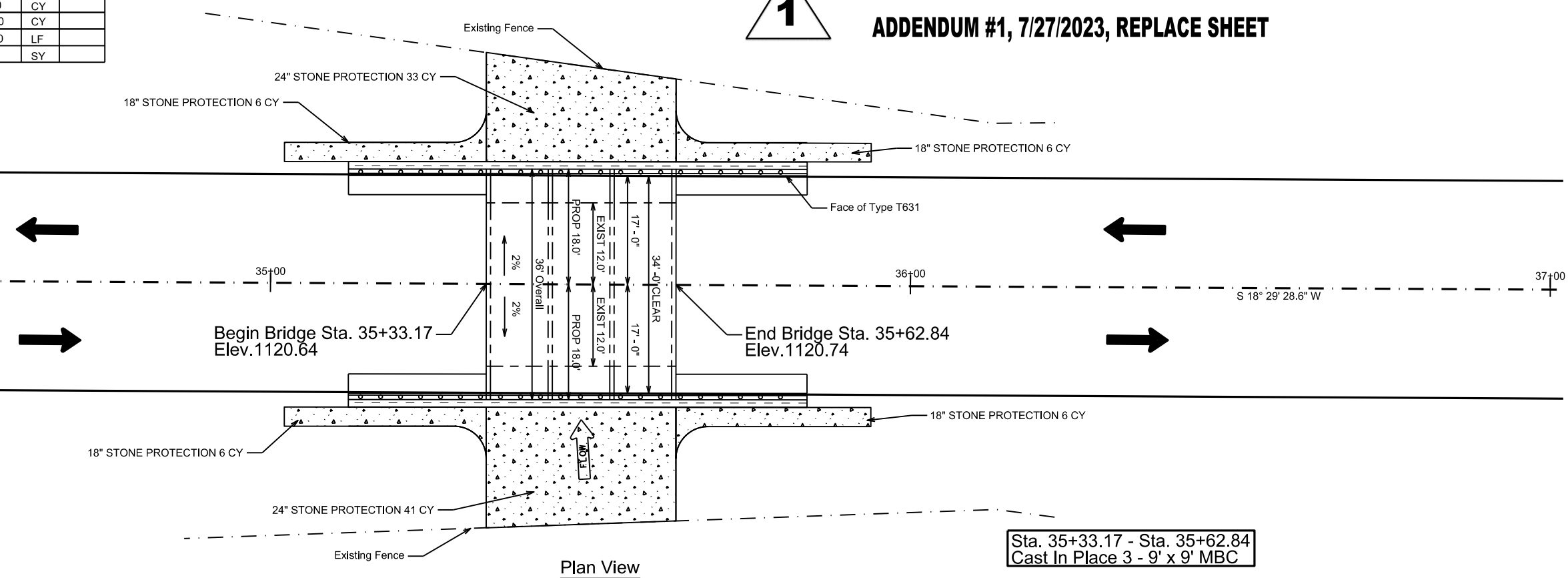
PRECAST NOT ALLOWED.
 *CLASS S CONC TO BE USED FOR BRIDGE DECK EXTENSION

CK
 DW
 CK
 DK

DATE: 7/27/2023 10:57:43 AM
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ADDENDUM #1, 7/27/2023, REPLACE SHEET



HYDRAULIC DATA

D. A. = 5016.0 AC.

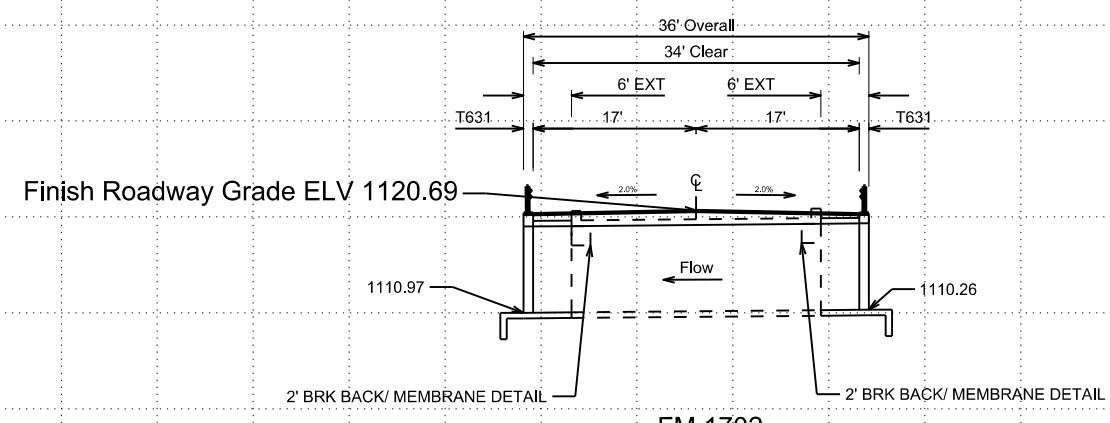
DESIGN FREQUENCY = 5-YR
 Q = 1127 CFS
 TW = 1114.28

ALLOWABLE HW = 1119.51
 STA 34+81 RT

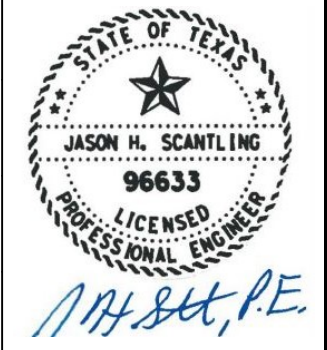
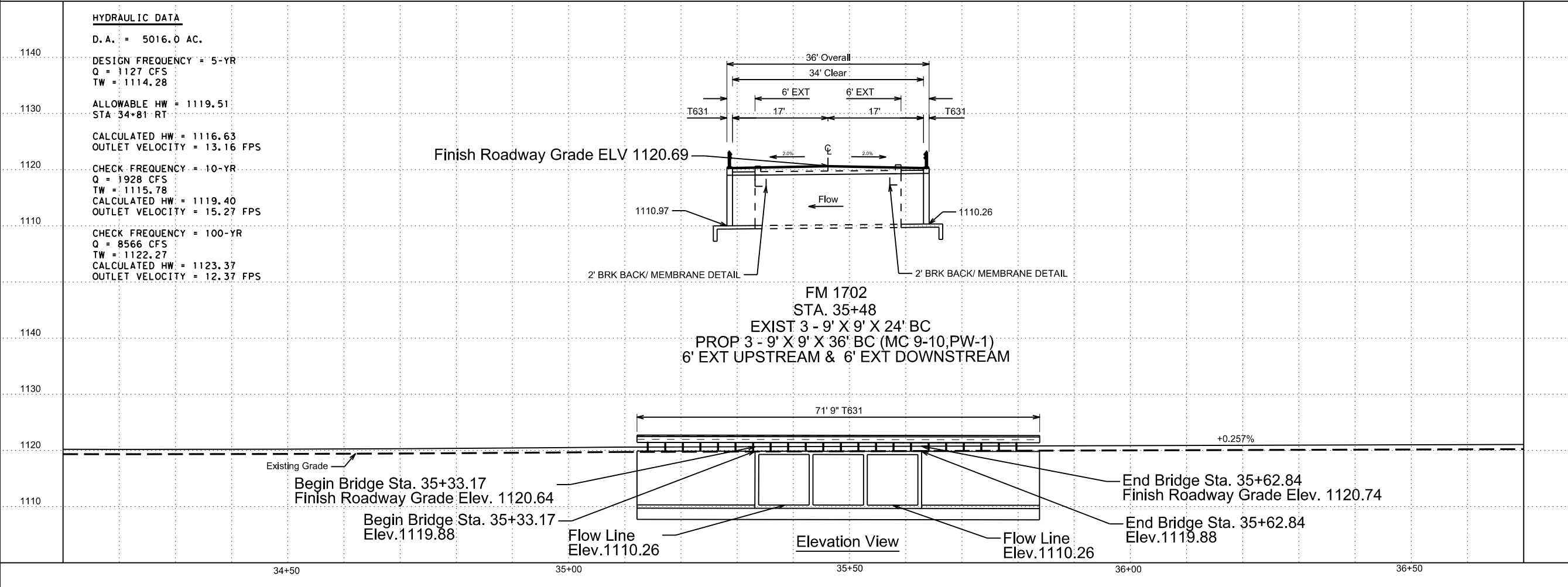
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 OUTLET VELOCITY = 13.16 FPS

CHECK FREQUENCY = 10-YR
 Q = 1928 CFS
 TW = 1115.78
 CALCULATED HW = 1119.40
 OUTLET VELOCITY = 15.27 FPS

CHECK FREQUENCY = 100-YR
 Q = 8566 CFS
 TW = 1122.27
 CALCULATED HW = 1123.37
 OUTLET VELOCITY = 12.37 FPS



FM 1702
 STA. 35+48
 EXIST 3 - 9' X 9' X 24' BC
 PROP 3 - 9' X 9' X 36' BC (MC 9-10,PW-1)
 6' EXT UPSTREAM & 6' EXT DOWNSTREAM



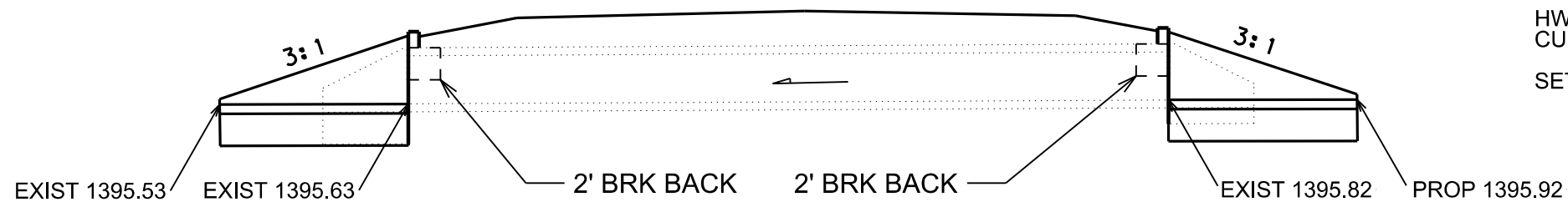
07/27/2023
 FM 1702
 CHAPPEL BRANCH
 CULVERT LAYOUT
 1597-04-012
 SCALE

HORIZ: 1" = 20'
 VERT: 1" = 20'
 Texas Department of Transportation
 SHEET 2 OF 15

CONT	SECT	JOB	HIGHWAY
1597	04	012	FM 1702
DIST	COUNTY	SHEET NO.	
BWD	COMANCHE	97	

NOTE: SET TO BE PLACED ONLY NO HYDRAULICS REQUIRED

HW = 0.75'
CURB HEIGHT = 4.25'
SETB-FW-0



HW = 0.75'
CURB HEIGHT = 4.25'
SETB-FW-0

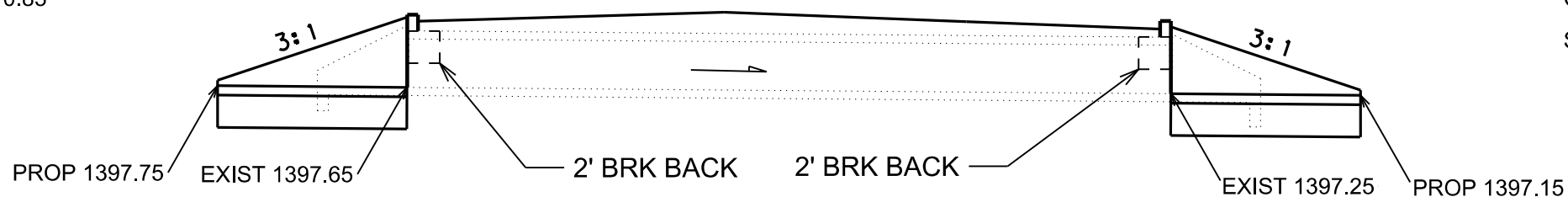
STA. 333+81 (FM 2486)
EXIST. 2 - 6' X 3' X 46' MBC
PROP. SETB-FW-0, SETBR
UPSTREAM & DOWNSTREAM

ITEM	CODE	DESCRIPTION	QUANT.	UNIT
420	6051	*CL C CONC (CULV)	0.8	CY
432	6002	RIPRAP (CONC) (5 IN)	5.4	CY
467	6217	SET (TY I) (S= 6 FT) (HW= 5 FT) (3:1) (C)	4.0	EA
658	6073	INSTL OM ASSM (OM-2Y) (WC) GND (BI)	2.0	EA

*CLASS C CONCRETE QUANTITY INCLUDES BOTH CURBS

NOTE: SET TO BE PLACED ONLY NO HYDRAULICS REQUIRED

HW = 4.25'
CURB HEIGHT = 0.83'
SETB-FW-0



HW = 4.25'
CURB HEIGHT = 0.83'
SETB-FW-0

STA. 322+11 (FM 1702)
EXIST. 4' X 3' X 46' BC
PROP. SETB-FW-0, SETBR
UPSTREAM & DOWNSTREAM

ITEM	CODE	DESCRIPTION	QUANT.	UNIT
420	6051	*CL C CONC (CULV)	0.4	CY
432	6002	RIPRAP (CONC) (5 IN)	2.6	CY
467	6143	SET (TY I) (S= 4 FT) (HW= 4 FT) (3:1) (C)	2.0	EA
658	6073	INSTL OM ASSM (OM-2Y) (WC) GND (BI)	2.0	EA

*CLASS C CONCRETE QUANTITY INCLUDES BOTH CURBS

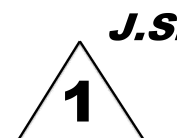


J.H. Scantling, P.E.

07/27/2023

FM 1702
CULVERT
LAYOUT

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SHEET 15 OF 15



ADDENDUM #1, 7/27/2023, REPLACE SHEET

CONT	SECT	JOB	HIGHWAY
1597	04	012	FM 1702
DIST	COUNTY		SHEET NO.
BWD	COMANCHE		110

DATE: 7/27/2023 10:55:36 AM
FILE: ... \BRAD'S TWO CULVERT LAYOUTS.dgn

