SUBJECT: PLANS AND PROPOSAL ADDENDUMS

PROJECT: C 1068-1-214 CONTROL: 1068-01-214

COUNTY: TARRANT

LETTING: 07/09/2024

REFERENCE NO: 0701

PROPOSAL ADDENDUMS

_ PROPOSAL COVER

X BID INSERTS (SH. NO.: 4-37,7-37,8-37)

_ GENERAL NOTES (SH. NO.:)

_ SPEC LIST (SH. NO.:)

_ SPECIAL PROVISIONS:

ADDED:

DELETED:

_ SPECIAL SPECIFICATIONS:

ADDED:

DELETED:

X OTHER: See Changes Below

DESCRIPTION OF ABOVE CHANGES
(INCLUDING PLANS SHEET CHANGES)

BID INSERTS: SHEET 4-37 - Revised quantity for items 416-6001 & 416-6002
Added item 416-6003
Deleted item 416-6018
SHEET 7-37 - Added item 450-6030
SHEET 8-37 - Revised quantity for item 450-6036

PLAN SHEETS: Revised sheets 2,59,59A,59B,91,92,95,101,126,572,657,795-797, 887,915,957-959,995,1025-1028,1046,1395,1469 & 1489

Added sheets 797A,797B,797C,839A,839B,839C,839D & 839E

VOLUME I

GENERAL

TRAFFIC CONTROL

TRAFFIC CONTROL STANDARDS

VOLUME II

GENERAL

ROADWAY DETAILS

ROADWAY STANDARDS

RETAINING WALLS

1 REVISED 06/24/2024

2 REVISED 07/01/2024

STATE OF TEXAS
M. N. MOZAFFAR
85191
LICENSED
PROFESSIONAL ENGINEER

THE STANDARD SHEETS SPECIFICALLY IDENTIFIED ON THIS SHEET WITH A "#" HAVE BEEN ISSUED BY ME AND ARE APPLICABLE TO THIS PROJECT.

M. N. MOZAFFAR PE, P.E. 4/23/2024

M. N. MOZAFFAR PE — DATE

I. S. ENGINEERS, LLC
7670 WOODWAY DRIVE, SUITE 320
HOUSTON, TEXAS 77063
TBPE REG. # F-11657

I-30
INDEX OF SHEETS

SHEET 1 OF 4

FED.RD. DIV.NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
6	(SEE TITLE SHEET)		I30
STATE	DISTRICT	COUNTY	SHEET NO.
TEXAS	FTW	TARRANT	2
CONTROL	SECTION	JOB	
1068	01	214	

FILENAME: c:\pw\working\texas\parsons\p009205h\d0237747\I30*IND*01.dgn
DRAWING DATE: 4/23/2024

Estimate & Quantity Sheet

CONTROLLING PROJECT ID 1068-01-214 **DISTRICT** Fort Worth **COUNTY** Tarrant
HIGHWAY IH 30

			CONTROL SECTION JOB		**1068-01-214**		**1068-01-231**		TOTAL EST.	TOTAL FINAL
			PROJECT ID		**A00063174**		**R00006333**			
			COUNTY		**Tarrant**		**Tarrant**			
			HIGHWAY		**IH 30**					
ALT	**BID CODE**	**DESCRIPTION**		**UNIT**	EST.	FINAL	EST.	FINAL		
	100-6002	PREPARING ROW		STA	172.000				172.000	
	104-6001	REMOVING CONC (PAV)		SY	123,508.000				123,508.000	
	104-6009	REMOVING CONC (RIPRAP)		SY	17,526.000				17,526.000	
	104-6015	REMOVING CONC (SIDEWALKS)		SY	1,140.000				1,140.000	
	104-6017	REMOVING CONC (DRIVEWAYS)		SY	1,180.000				1,180.000	
	104-6027	REMOVING CONC (APPR SLAB)		SY	1,034.000				1,034.000	
	104-6029	REMOVING CONC (CURB OR CURB & GUTTER)		LF	37,965.000				37,965.000	
	105-6091	REMOVING STAB BASE & ASPH PAV (8"-12")		SY	154,325.000				154,325.000	
	110-6001	EXCAVATION (ROADWAY)		CY	313,064.000				313,064.000	
	132-6004	EMBANKMENT (FINAL)(DENS CONT)(TY B)		CY	452,546.000				452,546.000	
	132-6036	EMB(FNL)(DC)(TYE)(CSBE)(RWALL FND IMPR		CY	5,772.000				5,772.000	
	160-6003	FURNISHING AND PLACING TOPSOIL (4")		SY	378,407.000		4,547.000		382,954.000	
	164-6007	BROADCAST SEED (PERM) (URBAN) (CLAY)		SY	378,407.000		4,547.000		382,954.000	
	164-6029	CELL FBR MLCH SEED(TEMP)(WARM)		SY	189,204.000		2,274.000		191,478.000	
	164-6031	CELL FBR MLCH SEED(TEMP)(COOL)		SY	189,204.000		2,274.000		191,478.000	
	168-6001	VEGETATIVE WATERING		MG	13,244.000		159.000		13,403.000	
	169-6002	SOIL RETENTION BLANKETS (CL 1) (TY B)		SY	5,634.000				5,634.000	
	260-6016	LIME (HYD, COM, OR QK(SLURRY))		TON	7,057.000				7,057.000	
	260-6073	LIME TRT (SUBGRADE)(8")		SY	423,406.000				423,406.000	
	276-6169	CEM TRT(PLNT MX) (CL L)(TYA)(GR1-2)(6")		SY	423,406.000				423,406.000	
	310-6001	PRIME COAT (MULTI OPTION)		GAL	84,681.000				84,681.000	
	351-6040	FLEX PAVEMNT STRUCT REPAIR (O" TO 12")		SY	500.000				500.000	
	354-6021	PLANE ASPH CONC PAV(0" TO 2")		SY	32,158.000				32,158.000	
	360-6004	CONC PVMT (CONT REINF - CRCP) (10")		SY	117,143.000				117,143.000	
	360-6007	CONC PVMT (CONT REINF - CRCP) (13")		SY	267,434.000				267,434.000	
	360-6043	CONC PVMT (CONT REINF)(FAST TRK)(13")		SY	1,485.000				1,485.000	
	360-6066	CONC PVMT (CONT REINF)(FAST TRK)(10")		SY	12,735.000				12,735.000	
	400-6001	STRUCT EXCAV		CY	5,772.000				5,772.000	△1
	400-6005	CEM STABIL BKFL		CY	34,997.000				34,997.000	
	400-6006	CUT & RESTORING PAV		SY	120.000				120.000	
	400-6007	CUT & RESTORE CONC PAVING		SY			926.000		926.000	
	400-6008	CUT & RESTORE ASPH PAVING		SY			341.000		341.000	
	401-6001	FLOWABLE BACKFILL		CY	1,363.000				1,363.000	
	402-6001	TRENCH EXCAVATION PROTECTION		LF	48,342.000		670.000		49,012.000	
	403-6001	TEMPORARY SPL SHORING		SF	228,521.000				228,521.000	
	410-6001	SOIL NAIL ANCHORS		LF	22,534.000				22,534.000	
	416-6001	DRILL SHAFT (18 IN)		LF	1,943.000				1,943.000	△2

△1 REVISED 6/24/2024

△2 REVISED 07/01/2024

Estimate & Quantity Sheet

CONTROLLING PROJECT ID 1068-01-214 **DISTRICT** Fort Worth **COUNTY** Tarrant
HIGHWAY IH 30

			CONTROL SECTION JOB		**1068-01-214**		**1068-01-231**		TOTAL EST.	TOTAL FINAL
			PROJECT ID		**A00063174**		**R00006333**			
			COUNTY		**Tarrant**		**Tarrant**			
			HIGHWAY		**IH 30**					
ALT	**BID CODE**	**DESCRIPTION**	**UNIT**	EST.	FINAL	EST.	FINAL			
	416-6002	DRILL SHAFT (24 IN)	LF	2,962.000				2,962.000		2
	416-6003	DRILL SHAFT (30 IN)	LF	403.000				403.000		2
	416-6004	DRILL SHAFT (36 IN)	LF	3,462.000				3,462.000		
	416-6005	DRILL SHAFT (42 IN)	LF	5,390.000				5,390.000		
	416-6006	DRILL SHAFT (48 IN)	LF	175.000				175.000		
	416-6007	DRILL SHAFT (54 IN)	LF	808.000				808.000		
	416-6019	DRILL SHAFT (SIGN MTS) (30 IN)	LF	258.000				258.000		2
	416-6022	DRILL SHAFT (SIGN MTS) (48 IN)	LF	70.000				70.000		
	416-6023	DRILL SHAFT (SIGN MTS) (54 IN)	LF	69.000				69.000		
	416-6026	DRILL SHAFT (HIGH MAST POLE) (60 IN)	LF	687.000				687.000		
	416-6031	DRILL SHAFT (TRF SIG POLE) (30 IN)	LF	24.000				24.000		
	416-6032	DRILL SHAFT (TRF SIG POLE) (36 IN)	LF	14.000				14.000		
	420-6014	CL C CONC (ABUT)(HPC)	CY	1,114.500				1,114.500		
	420-6030	CL C CONC (CAP)(HPC)	CY	384.100				384.100		
	420-6032	CL C CONC (CAP)(HPC)(MASS)	CY	609.000				609.000		
	420-6038	CL C CONC (COLUMN)(HPC)	CY	639.500				639.500		
	420-6040	CL C CONC (COLUMN)(HPC)(MASS)	CY	275.600				275.600		
	420-6046	CL C CONC (FOOTING)(HPC)(MASS)	CY	1,632.400				1,632.400		
	420-6066	CL C CONC (RAIL FOUNDATION)	CY	381.000				381.000		
	422-6002	REINF CONC SLAB (HPC)	SF	173,906.280				173,906.280		
	422-6008	REINF CONC SLAB (SLAB BEAM)(HPC)	SF	25,442.000				25,442.000		
	422-6016	APPROACH SLAB (HPC)	CY	1,946.400				1,946.400		
	423-6001	RETAINING WALL (MSE)	SF	242,986.000				242,986.000		
	423-6005	RETAINING WALL (SPREAD FOOTING)	SF	980.000				980.000		
	423-6022	RETAINING WALL (SOIL NAIL)(FACIA)	SF	12,212.000				12,212.000		
	425-6011	PRESTR CONC SLAB BEAM (4SB15)	LF	1,425.000				1,425.000		
	425-6012	PRESTR CONC SLAB BEAM (5SB15)	LF	3,800.000				3,800.000		
	425-6037	PRESTR CONC GIRDER (TX40)	LF	7,091.540				7,091.540		
	425-6039	PRESTR CONC GIRDER (TX54)	LF	19,179.230				19,179.230		
	425-6040	PRESTR CONC GIRDER (TX62)	LF	645.600				645.600		
	432-6001	RIPRAP (CONC)(4 IN)	CY	852.000				852.000		
	432-6002	RIPRAP (CONC)(5 IN)	CY	1,659.000				1,659.000		
	432-6005	RIPRAP (CONC) (CL A)	CY	11.310				11.310		
	432-6008	RIPRAP (CONC)(CL B)(RR8&RR9)	CY	97.000				97.000		
	432-6009	RIPRAP (CONC) (CL B) (4")	CY	187.800				187.800		
	432-6033	RIPRAP (STONE PROTECTION)(18 IN)	CY	346.000				346.000		
	432-6035	RIPRAP (STONE PROTECTION)(24 IN)	CY	15,711.000				15,711.000		

2 REVISED 07/01/2024

Estimate & Quantity Sheet

CONTROLLING PROJECT ID 1068-01-214 **DISTRICT** Fort Worth **COUNTY** Tarrant
HIGHWAY IH 30

			CONTROL SECTION JOB		**1068-01-214**		**1068-01-231**		TOTAL EST.	TOTAL FINAL
			PROJECT ID		**A00063174**		**R00006333**			
			COUNTY		**Tarrant**		**Tarrant**			
			HIGHWAY		**IH 30**					
ALT	**BID CODE**	**DESCRIPTION**		**UNIT**	EST.	FINAL	EST.	FINAL		
	432-6044	RIPRAP (CONC)(FLUME)		CY	915.000				915.000	
	432-6045	RIPRAP (MOW STRIP)(4 IN)		CY	143.000				143.000	
	432-6046	RIPRAP (MOW STRIP)(5 IN)		CY	538.000				538.000	
	450-6013	RAIL (TY T411)(HPC)		LF	506.000				506.000	
	450-6023	RAIL (TY SSTR)		LF	49,596.000				49,596.000	
	450-6024	RAIL (TY SSTR)(HPC)		LF	6,737.700				6,737.700	
	450-6030	RAIL (TY C221)		LF	52.000				52.000	△2
	450-6031	RAIL (TY C221)(HPC)		LF	240.000				240.000	
	450-6035	RAIL (TY C402)(HPC)		LF	793.500				793.500	
	450-6036	RAIL (TY C411)		LF	2,385.000				2,385.000	△2
	450-6037	RAIL (TY C411)(HPC)		LF	548.000				548.000	
	450-6052	RAIL (HANDRAIL)(TY F)		LF	1,090.000				1,090.000	
	450-6054	RAIL (TY SSTR) (W/DRAIN SLOTS)		LF	6,147.000				6,147.000	
	450-6103	RAIL (TY PR11)		LF	1,707.000				1,707.000	
	450-6111	RAIL (TY SSTR) (W/DRAIN SLOT) (HPC)		LF	800.000				800.000	
	450-6125	RAIL (TY T80PP-TS)		LF	589.000				589.000	
	451-6032	RETROFIT RAIL (TY C221)(HPC)		LF	292.000				292.000	
	451-6036	RETROFIT RAIL (TY C402)(HPC)		LF	206.000				206.000	
	454-6004	ARMOR JOINT (SEALED)		LF	339.000				339.000	
	454-6020	SEALED EXPANSION JOINT (4 IN) (SEJ - B)		LF	1,615.000				1,615.000	
	462-6004	CONC BOX CULV (4 FT X 3 FT)		LF	329.000				329.000	
	462-6005	CONC BOX CULV (4 FT X 4 FT)		LF	406.000				406.000	
	462-6008	CONC BOX CULV (5 FT X 4 FT)		LF	1,642.000				1,642.000	
	462-6010	CONC BOX CULV (6 FT X 3 FT)		LF	20.000				20.000	
	462-6011	CONC BOX CULV (6 FT X 4 FT)		LF	407.000				407.000	
	462-6019	CONC BOX CULV (8 FT X 4 FT)		LF	1,520.000				1,520.000	
	462-6032	CONC BOX CULV (10 FT X 8 FT)		LF	1,062.000				1,062.000	
	464-6003	RC PIPE (CL III)(18 IN)		LF	2,390.000				2,390.000	
	464-6005	RC PIPE (CL III)(24 IN)		LF	37,098.000				37,098.000	
	464-6007	RC PIPE (CL III)(30 IN)		LF	6,334.000				6,334.000	
	464-6008	RC PIPE (CL III)(36 IN)		LF	1,545.000				1,545.000	
	464-6009	RC PIPE (CL III)(42 IN)		LF	341.000				341.000	
	464-6010	RC PIPE (CL III)(48 IN)		LF	695.000				695.000	
	464-6011	RC PIPE (CL III)(54 IN)		LF	352.000				352.000	
	464-6026	RC PIPE (CL V)(24 IN)		LF	958.000				958.000	
	465-6415	INLET (COMPL)(CO)(5 FT)(FTW)		EA	85.000				85.000	
	465-6416	INLET (COMPL)(CO)(10 FT)(FTW)		EA	54.000				54.000	
	465-6417	INLET (COMPL)(CO)(15 FT)(FTW)		EA	57.000				57.000	

△2 REVISED 07/01/2024

SUMMARY OF ROADWAY ITEMS (MAINLANES)

LOCATION (STA TO STA)			100 6002 PREPARING ROW	260 6016 LIME (HYD, COM, OR QK(SLURRY))	260 6073 LIME TRT (SUBGRADE) (8")	276 6169 CEMTRT (PLNTMX) (CLL) (TYA) (GR1-2) (6")	310 6001 PRIME COAT (MULTI OPTION)	360 6007 CONC PVMT (CONT REINF-CRCP) (13")	420 6066 CL C CONC (RAIL FOUNDATION)	432 6002 RIPRAP (CONC) (5 IN)	432 6045 RIPRAP (MOW STRIP) (4 IN)	450 6023 RAIL (TY SSTR)	450 6054 RAIL (TY SSTR) (W/DRAIN SLOTS)	450 6125 RAIL (TY T80PP-TS)	514 6001 PERM CTB (SGL SLOPE) (TY 1) (42)
CSJ: 1068-01-214			STA	TON	SY	SY	GAL	SY	CY	CY	CY	LF	LF	LF	LF
BEGIN	TO	3127+00	6.75	165	9,892	9,892	1,978	9,292	1.45	198	37	685			571
3127+00	TO	822+00	11.21	306	18,335	18,335	3,667	17,340				1,827			800
822+00	TO	833+00	11.00	281	16,853	16,853	3,371	15,876				3,187			383
833+00	TO	844+00	11.00	267	16,018	16,018	3,204	15,529				805	576		1100
844+00	TO	856+00	12.00	103	6,209	6,209	1,242	5,675	36.34			1,200	573		57
856+00	TO	868+00	12.00	301	18,058	18,058	3,612	17,524		26		2,130			1200
868+00	TO	880+00	12.00	271	16,267	16,267	3,253	15,734				2,400			1200
880+00	TO	892+00	12.00	285	17,077	17,077	3,415	16,544		51		2,400			1200
892+00	TO	904+00	12.00	329	19,747	19,747	3,949	19,213	84.04	7		2,400		263	888
904+00	TO	916+00	12.00	310	18,577	18,577	3,715	18,043	12.02			2,050	353	37	1163
916+00	TO	928+00	12.00	331	19,844	19,844	3,969	19,310		34		276	902		1150
928+00	TO	940+00	12.00	350	21,029	21,029	4,206	20,495	92.44			1,179	1229	289	861
940+00	TO	952+00	12.00	361	21,641	21,641	4,328	21,107				2,150	251		1150
952+00	TO	964+00	12.00	263	15,751	15,751	3,150	15,218				1,851			1150
964+00	TO	END	12.00	43	2,599	2,599	520	2,066				234			41
TOTALS			**172**	**3,965**	**237,897**	**237,897**	**47,579**	**228,966**	**226.3**	**316**	**37**	**24,775**	**3,884**	**589**	**12,914**

SUMMARY OF ROADWAY ITEMS (MAINLANES CONT.)

LOCATION (STA TO STA)			514 6003 PERM CTB (SGL SLOPE) (TY 3) (42)	540 6002 MTL W-BEAM GD FEN (STEEL POST)	540 6006 MTL BEAM GF TRANS (THRIE-BEAM)	544 6001 GUARDRAIL END TREATMENT (INSTALL)	545 6007 CRASH CUSH ATTEN (INSTALL)(L)(N)(TL3)	545 6010 CRASH CUSH ATTEN (INSTALL)(L)(W)(TL3)	3076 6054 D-GR HMA TY-F PG64-22
CSJ: 1068-01-214			LF	LF	EA	EA	EA	EA	TON
BEGIN	TO	3127+00		700	2	2	1		569
3127+00	TO	822+00							1,054
822+00	TO	833+00	52				1	1	969
833+00	TO	844+00					1		921
844+00	TO	856+00							357
856+00	TO	868+00						1	1,038
868+00	TO	880+00							935
880+00	TO	892+00							982
892+00	TO	904+00	50					1	1,135
904+00	TO	916+00							1,068
916+00	TO	928+00	50					1	1,141
928+00	TO	940+00	50						1,209
940+00	TO	952+00	50					1	1,244
952+00	TO	964+00	50					1	906
964+00	TO	END						1	149
TOTALS			**302**	**700**	**2**	**2**	**3**	**7**	**13,679**

SUMMARY OF ROADWAY ITEMS (EASTBOUND FRONTAGE ROAD)

2

LOCATION (STA TO STA)			260 6016 LIME (HYD, COM, OR QK(SLURRY))	260 6073 LIME TRT (SUBGRADE) (8")	276 6169 CEMTRT (PLNTMX) (CLL) (TYA) (GR1-2) (6")	310 6001 PRIME COAT (MULTI OPTION)	354 6021 PLANE ASPH CONC PAV (0"TO 2")	360 6004 CONC PVMT (CONT REINF - CRCP) (10")	360 6066 CONC PVMT (CONT REINF) (FAST TRK) (10")	420 6066 CL C CONC (RAIL FOUNDATION)	432 6002 RIPRAP (CONC) (5 IN)	432 6045 RIPRAP (MOW STRIP) (4 IN)	450 6023 RAIL (TY SSTR)	450 6036 RAIL (TY C411)	450 6052 RAIL (HANDRAIL) (TY F)	529 6005 CONC CURB (MONO) (TY II)	529 6008 CONC CURB & GUTTER (TY II)	529 6019 CONC CURB (TY F)
CSJ: 1068-01-214			TON	SY	SY	GAL	SY	SY	SY	CY	CY	CY	LF	LF	LF	LF	LF	LF
BEGIN	TO	1809+00	27	1,590	1,590	318	2,088	1,385					470				794	
1809+00	TO	1821+00					3,332				323	13				73	2,066	
1821+00	TO	1833+00	60	3,614	3,614	723	556	2,836	320							1,983	400	
1833+00	TO	1844+00	74	4,427	4,427	885		3,938	1,803				157			1,617		
1844+00	TO	1856+00	73	4,381	4,381	876		1,531	1,422			9				1,358		
1856+00	TO	1868+00	73	4,409	4,409	882		2,580	1,295							2,405		
1868+00	TO	1880+00	98	5,874	5,874	1,175		5,341					390			2,009		
1880+00	TO	1892+00	87	5,228	5,228	1,046		4,695		133		5	150	300		2,155		
1892+00	TO	1904+00	70	4,223	4,223	845		3,823				4	591		147	978		147
1904+00	TO	1916+00	11	633	633	127	2,838	500				5	211				1,799	
1916+00	TO	1928+00	80	4,798	4,798	960	787	4,389					20		300	1,791	545	
1928+00	TO	1940+00	95	5,674	5,674	1,135		5,141				4				1,837		
1940+00	TO	1952+00	44	2,634	2,634	527	1,530	2,322			154		49		180	1,323	1,030	
1952+00	TO	1964+00	90	5,421	5,421	1,084	849	4,887			147	8	366		200	1,746	300	
1964+00	TO	END	13	755	755	151		665			22	11				402		
TOTALS			**894**	**53,661**	**53,661**	**10,732**	**11,980**	**44,033**	**4,840**	**133**	**646**	**59**	**2,406**	**300**	**827**	**19,675**	**6,933**	**147**

2 REVISED 07/01/2024

Texas Department of Transportation

I.S. ENGINEERS, LLC
7670 WOODWAY DRIVE, SUITE 320
HOUSTON, TEXAS 77063
TBPE REG. # F-11657

I-30
SUMMARY OF ROADWAY QUANTITIES

SHEET 1 OF 5

FED.RD. DIV.NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
6	(SEE TITLE SHEET)		I30
STATE	DISTRICT	COUNTY	SHEET NO.
TEXAS	FTW	TARRANT	91
CONTROL	SECTION	JOB	
1068	01	214	

SUMMARY OF ROADWAY ITEMS (EASTBOUND FRONTAGE ROAD CONT.)

LOCATION (STA TO STA)			530 6010 INTRSCT, DRIVEWAYS, & TURNOUT (CONC)	530 6025 DRIVEWAYS (CONC) (FAST TRACK)	531 6002 CONC SIDEWALKS (5")	531 6004 CURB RAMPS (TY 1)	531 6005 CURB RAMPS (TY 2)	531 6006 CURB RAMPS (TY 3)	531 6010 CURB RAMPS (TY 7)	531 6016 CURB RAMPS (TY 21)	531 6017 CURB RAMPS (TY 22)	531 6033 CONC SIDEWALKS (SPECIAL) (TYPE B)	536 6002 CONC MEDIAN	540 6002 MTL W-BEAM GD FEN (STEEL POST)	540 6006 MTL BEAM GF TRANS (THRIE-BEAM)	540 6016 DOWNSTREAM ANCHOR TERMINAL SECTION	544 6001 GUARDRAIL END TREATMENT (INSTALL)	3076 6054 D-GR HMA TY-F PG64-22	3077 6027 SP MIXES SP-C SAC-A PG70-28	3077 6072 TACK COAT	4017 6001 NOISE WALL	416 6002 DRILL SHAFT (24 IN)	416 6003 DRILL SHAFT (30 IN)	450 6030 RAIL (TY C221)
CSJ: 1068-01-214			SY	SY	SY	EA	EA	EA	EA	EA	EA	SY	SY	LF	EA	EA	EA	TON	TON	GAL	SF	LF	LF	LF
BEGIN	TO	1809+00	1,094		430				1									91	240	418				
1809+00	TO	1821+00	942		1,035				4					350		1	1	0	383	667				
1821+00	TO	1833+00		569	1,168				2									208	64	112				
1833+00	TO	1844+00	457	117	1,355			1	1	1			58					255						
1844+00	TO	1856+00			706				4	2				50	2			252						52
1856+00	TO	1868+00			1,448												2	254						
1868+00	TO	1880+00			1,334													338						
1880+00	TO	1892+00			1,000									25	1		1	301						
1892+00	TO	1904+00			712	1			2	2		439		25	1		1	243						
1904+00	TO	1916+00	51		1,213			2	4					25	1		1	36	326	568				
1916+00	TO	1928+00	871		1,556													276	91	158				
1928+00	TO	1940+00			1,176	1	2			1	1			25	1		1	326			6,600	1,036		
1940+00	TO	1952+00			1,372													151	176	306	8,240	364	403	
1952+00	TO	1964+00			1,330									250				312	98	170				
1964+00	TO	END			223									350		1		43						
TOTALS			**3,415**	**686**	**16,058**	**2**	**2**	**3**	**18**	**6**	**1**	**439**	**58**	**1,100**	**6**	**2**	**7**	**3,086**	**1,378**	**2,399**	**14,840**	**1,400**	**403**	**52**

SUMMARY OF ROADWAY ITEMS (WESTBOUND FRONTAGE ROAD)

LOCATION (STA TO STA)			260 6016 LIME (HYD, COM, OR QK(SLURRY))	260 6073 LIME TRT (SUBGRADE) (8")	276 6169 CEMTRT (PLNTMX) (CLL) (TYA) (GR1-2) (6")	310 6001 PRIME COAT (MULTI OPTION)	354 6021 PLANE ASPH CONC PAV (0"TO 2")	360 6004 CONC PVMT (CONT REINF - CRCP) (10")	432 6002 RIPRAP (CONC) (5 IN)	432 6045 RIPRAP (MOW STRIP) (4 IN)	450 6023 RAIL (TY SSTR)	450 6036 RAIL (TY C411)	450 6052 RAIL (HANDRAIL) (TY F)	529 6005 CONC CURB (MONO) (TY II)	529 6008 CONC CURB & GUTTER (TY II)	530 6010 INTRSCT, DRIVEWAYS, & TURNOUT (CONC)	531 6002 CONC SIDEWALKS (5")	531 6004 CURB RAMPS (TY 1)	531 6005 CURB RAMPS (TY 2)	531 6006 CURB RAMPS (TY 3)
CSJ: 1068-01-214			TON	SY	SY	GAL	SY	SY	CY	CY	LF	LF	LF	LF	LF	SY	SY	EA	EA	EA
BEGIN	TO	2812+00	27	1,611	1,611	322	2,199	1,327						510	912	77	831			
2812+00	TO	2824+00					3,334	0							2,381	58	1,416			
2824+00	TO	2836+00	45	2,691	2,691	538	3,234	2,202	14	5	341			791	1,253	89	1,579			
2836+00	TO	2848+00	87	5,247	5,247	1,049	447	4,767						2,168	165		1,621			
2848+00	TO	2860+00	94	5,642	5,642	1,128		5,109		9		**67**		1,646		404	1,090	1	1	
2860+00	TO	2872+00	122	7,300	7,300	1,460		6,767	25	1	568			1,833			1,392			
2872+00	TO	2884+00	101	6,081	6,081	1,216		5,548		4				2,258			1,334			
2884+00	TO	2896+00	82	4,949	4,949	990		4,415						2,198		149	1,414			
2896+00	TO	2908+00	43	2,599	2,599	520		2,298						1,190			935	1	1	
2908+00	TO	2920+00	68	4,078	4,078	816	946	3,594		20				1,219	616		1,427			
2920+00	TO	2932+00	73	4,402	4,402	880		3,868						2,405			1,333			
2932+00	TO	2944+00	116	6,939	6,939	1,388		6,406		4			19	1,825			1,509	2		1
2944+00	TO	2956+00	45	2,678	2,678	536	2,020	2,267	15				136	1,398	1,005		1,317			
2956+00	TO	2968+00	3	158	158	32	3,337		5		281		108		1,763		1,406			
2968+00	TO	END					1,667								1,124	134	613			
TOTALS			**906**	**54,375**	**54,375**	**10,875**	**17,184**	**48,568**	**59**	**42**	**1,191**	**67**	**263**	**19,439**	**9,218**	**911**	**19,217**	**4**	**2**	**1**

SUMMARY OF ROADWAY ITEMS (WESTBOUND FRONTAGE ROAD CONT.)

LOCATION (STA TO STA)			531 6010 CURB RAMPS (TY 7)	531 6016 CURB RAMPS (TY 21)	531 6017 CURB RAMPS (TY 22)	531 6033 CONC SIDEWALKS (SPECIAL) (TYPE B)	540 6002 MTL W-BEAM GD FEN (STEEL POST)	540 6006 MTL BEAM GF TRANS (THRIE-BEAM)	540 6007 MTL BEAM GF TRANS (TL2)	544 6001 GUARDRAIL END TREATMENT (INSTALL)	3076 6054 D-GR HMA TY-F PG64-22	3077 6027 SP MIXES SP-C SAC-A PG70-28	3077 6075 TACK COAT
CSJ: 1068-01-214			EA	EA	EA	SY	LF	EA	EA	EA	TON	TON	GAL
BEGIN	TO	2812+00	1								93	253	440
2812+00	TO	2824+00									0	383	667
2824+00	TO	2836+00					25	1		1	155	372	647
2836+00	TO	2848+00									302	51	90
2848+00	TO	2860+00					50	2		2	324		
2860+00	TO	2872+00									420		
2872+00	TO	2884+00					25	1		1	350		
2884+00	TO	2896+00									285		
2896+00	TO	2908+00	2	2		276					149		
2908+00	TO	2920+00					600		1		234	109	190
2920+00	TO	2932+00									253		
2932+00	TO	2944+00	1	1	1		0	0		0	399		
2944+00	TO	2956+00									154	232	404
2956+00	TO	2968+00									9	384	668
2968+00	TO	END										192	334
TOTALS			**4**	**3**	**1**	**276**	**700**	**4**	**1**	**4**	**3,127**	**1,976**	**3,440**

2 REVISED 07/01/2024

I.S. ENGINEERS, LLC
7670 WOODWAY DRIVE, SUITE 320
HOUSTON, TEXAS 77063
TBPE REG. # F-11657

I-30
SUMMARY OF ROADWAY QUANTITIES

SHEET 2 OF 5

FED.RD. DIV.NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
6	(SEE TITLE SHEET)		I30
STATE	DISTRICT	COUNTY	SHEET NO.
TEXAS	FTW	TARRANT	92
CONTROL	SECTION	JOB	
1068	01	214	

SUMMARY OF ROADWAY ITEMS (PROJECT TOTALS)

LOCATION (STA TO STA)	100 6002 PREPARING ROW	260 6016 LIME (HYD, COM, OR QK(SLURRY))	260 6073 LIME TRT (SUBGRADE) (8")	276 6169 CEMTRT (PLNTMX) (CLL)(TYA) (GR1-2) (6")	310 6001 PRIME COAT (MULTI OPTION)	351 6040 FLEX PAVEMNT STRUCT REPAIR (0" TO 12")	354 6021 PLANE ASPH CONC PAV (0"TO 2")	360 6004 CONC PVMT (CONT REINF - CRCP) (10")	360 6007 CONC PVMT (CONT REINF-CRCP) (13")	360 6043 CONC PVMT (CONT REINF) (FAST TRK) (13")	360 6066 CONC PVMT (CONT REINF) (FAST TRK) (10")	420 6066 CL C CONC (RAIL FOUNDATION)	432 6002 RIPRAP (CONC) (5 IN)	432 6045 RIPRAP (MOW STRIP) (4 IN)	450 6023 RAIL (TY SSTR)	450 6035 RAIL (TY C402) (HPC)	450 6036 RAIL (TY C411)	450 6052 RAIL (HANDRAIL) (TY F)
CSJ: 1068-01-214	STA	TON	SY	SY	GAL	SY	SY	SY	SY	SY	SY	CY	CY	CY	LF	LF	LF	LF
PROJECT TOTAL	**172**	**7,057**	**423,406**	**423,406**	**84,681**	**500 ***	**32,158**	**117,143**	**267,434**	**1,485**	**12,735**	**381**	**1,659**	**143**	**42,794**	**91**	**419**	**1,090**

SUMMARY OF ROADWAY ITEMS (PROJECT TOTALS CONT.)

LOCATION (STA TO STA)	450 6054 RAIL (TY SSTR) (W/DRAIN SLOTS)	450 6125 RAIL (TY T80PP-TS)	514 6001 PERM CTB (SGL SLOPE) (TY 1) (42)	514 6003 PERM CTB (SGL SLOPE) (TY 3) (42)	529 6005 CONC CURB (MONO) (TY II)	529 6008 CONC CURB & GUTTER (TY II)	529 6019 CONC CURB (TY F)	530 6010 INTRSCT, DRIVEWAYS, & TURNOUT (CONC)	530 6025 DRIVEWAYS (CONC) (FAST TRACK)	531 6002 CONC SIDEWALKS (5")	531 6004 CURB RAMPS (TY 1)	531 6005 CURB RAMPS (TY 2)	531 6006 CURB RAMPS (TY 3)	531 6010 CURB RAMPS (TY 7)	531 6016 CURB RAMPS (TY 21)	531 6017 CURB RAMPS (TY 22)	531 6033 CONC SIDEWALKS (SPECIAL) (TYPE B)	536 6002 CONC MEDIAN	540 6002 MTL W-BEAM GD FEN (STEEL POST)	540 6006 MTL BEAM GF TRANS (THRIE-BEAM)	540 6007 MTL BEAM GF TRANS (TL2)
CSJ: 1068-01-214	LF	LF	LF	LF	LF	LF	LF	SY	SY	SY	EA	EA	EA	EA	EA	EA	SY	SY	LF	EA	EA
PROJECT TOTAL	**6,147**	**589**	**12,914**	**302**	**52,476**	**16,543**	**147**	**4,518**	**686**	**38,539**	**6**	**4**	**9**	**25**	**9**	**2**	**715**	**3,830**	**2,500**	**12**	**1**

SUMMARY OF ROADWAY ITEMS (PROJECT TOTALS CONT.)

LOCATION (STA TO STA)	540 6016 DOWNSTREAM ANCHOR TERMINAL SECTION	544 6001 GUARDRAIL END TREATMENT (INSTALL)	545 6007 CRASH CUSH ATTEN (INSTALL)(L)(N)(TL3)	545 6010 CRASH CUSH ATTEN (INSTALL)(L)(W)(TL3)	545 6018 CRASH CUSH ATTEN (INSTALL)(S)(N)(TL2)	3076 6054 D-GR HMA TY-F PG64-22	3077 6027 SP MIXES SP-C SAC-A PG70-28	3077 6072 TACK COAT	4017 6001 NOISE WALL	416 6002 DRILL SHAFT (24 IN)	416 6003 DRILL SHAFT (30 IN)	450 6030 RAIL (TY C221)
CSJ: 1068-01-214	EA	EA	EA	EA	EA	TON	TON	GAL	SF	LF	LF	LF
PROJECT TOTAL	**2**	**13**	**10**	**7**	**1**	**24,346**	**3,698**	**6,438**	**14,840**	**1,400** 2	**403** 2	**52** 2

* SEE GENERAL NOTES FOR INSTRUCTION.

2 REVISED 07/01/2024

Texas Department of Transportation

I. S. ENGINEERS, LLC
7670 WOODWAY DRIVE, SUITE 320
HOUSTON, TEXAS 77063
TBPE REG. # F-11657

I-30
SUMMARY OF ROADWAY QUANTITIES

SHEET 5 OF 5

FED.RD. DIV.NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
6	(SEE TITLE SHEET)		I30
STATE	DISTRICT	COUNTY	SHEET NO.
TEXAS	FTW	TARRANT	95
CONTROL	SECTION	JOB	
1068	01	214	

DRAWING DATE: 5/30/2024 FILENAME: c:\pw\working\texas\parsons\p009205h\d0252403\I30*QTY*RDWY*01.dgn

SUMMARY OF LARGE SIGN QUANTITIES

LOCATION SHEET NUMBER	416 6019 DRILL SHAFT (SIGN MTS) (30 IN)	416 6022 DRILL SHAFT (SIGN MTS) (48 IN)	416 6023 DRILL SHAFT (SIGN MTS) (54 IN)	610 6006 REMOVE RDIL ASM (BRIDGE MOUNT)	636 6003 ALUMINUM SIGNS (TY O)	647 6003 REMOVE LRSA	650 6032 INS OH SN SUP(30 FT CANT)	650 6038 INS OH SN SUP(35 FT CANT)	650 6045 INS OH SN SUP(40 FT CANT)	650 6074 INS OH SN SUP(65 FT BRDG)	650 6084 INS OH SN SUP(75 FT BRDG)	650 6089 INS OH SN SUP(80 FT BRDG)	650 6094 INS OH SN SUP(85 FT BRDG)	650 6099 INS OH SN SUP(90 FT BRDG)	650 6104 INS OH SN SUP(95 FT BRDG)	650 6204 REMOVE OVERHD SIGN SUP	650 6205 REMOVE OVERHD SIGN SUP (SIGN ONLY)	654 6007 REMOVE SIGN WALKWAY
	LF	LF	LF	EA	SF	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA
SHEET 1 OF 22			22		555				1							1	3	
SHEET 2 OF 22						2												
SHEET 3 OF 22	27			1	328	1								1		1		1
SHEET 4 OF 22						1										1		
SHEET 5 OF 22						2												
SHEET 6 OF 22			26		211	1		1										
SHEET 7 OF 22						3												
SHEET 8 OF 22		23			109	1	1											
SHEET 9 OF 22	31				595						1					1		
SHEET 10 OF 22		20			82		1											
SHEET 11 OF 22	53				312	2									1			
SHEET 12 OF 22	31				272						1					1		
SHEET 13 OF 22																		
SHEET 14 OF 22	40	27			574		1					1						
SHEET 15 OF 22	38				338					1						1		
SHEET 16 OF 22			21		619				1								7	
SHEET 17 OF 22					551												6	
SHEET 18 OF 22																		
SHEET 19 OF 22	38				680	1							1				2	
SHEET 20 OF 22					650												8	
SHEET 21 OF 22																		
SHEET 22 OF 22																		
PROJECT TOTALS	258	70	69	1	5,876	14	3	1	2	1	2	1	1	1	1	6	26	1

2

2 REVISED 07/01/2024

I. S. ENGINEERS, LLC
7670 WOODWAY DRIVE, SUITE 320
HOUSTON, TEXAS 77063
TBPE REG. # F-11657

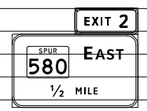
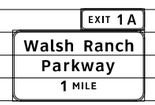
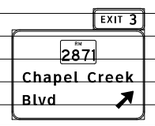
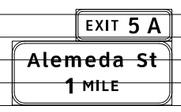
I-30
SUMMARY OF
SIGNING AND PAVEMEMNT
MARKING QUANTITIES

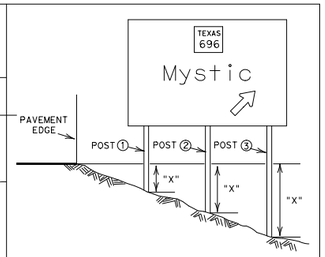
SHEET 3 OF 3

FED.RD. DIV.NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
6	(SEE TITLE SHEET)		I30
STATE	DISTRICT	COUNTY	SHEET NO.
TEXAS	FTW	TARRANT	101
CONTROL	SECTION	JOB	
1068	01	214	

DRAWING DATE: 6/27/2024
FILENAME: c:\pw\working\texas\parsons\p009218h\d0252403\I30xQTYxS&PMx03.dgn

SUMMARY OF LARGE SIGNS

PLAN SHEET NO.	SIGN NO.	SIGN BACK-GROUND COLOR	SIGN TEXT	SIGN DIMENSIONS (FEET)	PLAQUES, & OTHER ATTACHMENTS: DIRECT APPLY	PLAQUES, & OTHER ATTACHMENTS: ⚹ ALUMINUM (TYPE A)	BACKGROUND SUBSTRATE (SQ FT): GROUND MOUNT (TYPE G)	BACKGROUND SUBSTRATE (SQ FT): OVERHEAD (TYPE O)	TYPE OF MOUNT	"X" DIMENSION ◒: post ①	"X" DIMENSION ◒: post ②	"X" DIMENSION ◒: post ③	GALVANIZED STRUCTURAL STEEL: SIZE	GALVANIZED STRUCTURAL STEEL: LINEAR FEET post ①	GALVANIZED STRUCTURAL STEEL: LINEAR FEET post ②	GALVANIZED STRUCTURAL STEEL: LINEAR FEET post ③	GALVANIZED STRUCTURAL STEEL: TOTAL WEIGHT LBS.	DRILLED SHAFT: LINEAR FEET NON-REINF 12"ϕ	DRILLED SHAFT: LINEAR FEET REINFORCED 30"ϕ	DRILLED SHAFT: LINEAR FEET REINFORCED 48"ϕ	DRILLED SHAFT: LINEAR FEET REINFORCED 54"ϕ
1 OF 22	1	GREEN		12.3 X 6.83				84.1	MOUNT ON EXISTING OSB STRUCTURE NO. 1												
	1A	GREEN		6 X 2.5				15	MOUNT ON EXISTING OSB STRUCTURE NO. 1												
	1B	GREEN		17 X 12.5				212.5													
	1C	GREEN		6 X 2.5				15	MOUNT ON EXISTING OSB STRUCTURE NO. 1												
	1D	GREEN		12 X 8				96													
1 OF 22	2	GREEN		7.5 X 2.5				18.75	MOUNT ON PROPOSED COSS STRUCTURE NO. 1												22′
	2A	GREEN		15.5 X 8.5				113													
3 OF 22	3	GREEN		6 X 2.5				15	MOUNT ON PROPOSED OSB STRUCTURE NO. 2										27′		
	3A	GREEN		17 X 11.5				195.5													
	3B	GREEN		6 X 2.5				15	MOUNT ON PROPOSED OSB STRUCTURE NO. 2												
	3C			11.95 X 8.5				101.6													
6 OF 22	6	GREEN		6 X 2.5				15	MOUNT ON PROPOSED COSS STRUCTURE NO. 2												26′
	6A			17 X 11.5				195.5													
8 OF 22	8	GREEN		7.5 X 2.5				18.75	MOUNT ON PROPOSED COSS STRUCTURE NO. 3											23′	
	8A	GREEN		12 X 7.5				90													
				PAGE TOTALS				1201						PAGE TOTALS					27′	23′	48′



◒ The "X" dimension is the elevation difference at the post between the ground and the edge of pavement or top of curb.

Sign supports shall be located as shown on the plans, except that the Engineer may shift the sign supports, within design guidelines, where necessary to secure a more desirable location or to avoid conflict with utilities. Unless otherwise shown on the plans, the Contractor shall stake and the Engineer will verify all sign support locations.

The post lengths listed here are approximations, The corrected post lengths will be furnished by the Contractor after the stud posts are placed.

Tower heights shall be verified with the Engineer before fabrication.

⚹ This column is for aluminum Type A and not direct apply. Direct apply is subsidiary to the sign.

2 REVISED 07/01/2024

SIGN TYPE

SIGN TYPE 1 3 0

- 1 — Wind Design Zone
- 3 — Series No.
- 0 — 0 Aluminum/Fiberglass, 1 Aluminum, 2 Fiberglass
- No. of Posts

See sheet SMD(8W1)

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.

DATE:
FILE:

SUMMARY OF LARGE SIGNS
SOLS

DN.: TxDOT	REVISIONS		
CK.: TxDOT	11-93	1-04	
DW.: TxDOT	8-95	9-08	
CK.: TxDOT	5-01		SHEET 1 OF 5

CONT	SECT	JOB	HIGHWAY
1068	01	214	I30
DIST	COUNTY		SHEET NO.
FTW	TARRANT		126

2

VOLUME I

GENERAL

TRAFFIC CONTROL

TRAFFIC CONTROL STANDARDS

VOLUME II

GENERAL

ROADWAY DETAILS

ROADWAY STANDARDS

RETAINING WALLS

STATE OF TEXAS
M. N. MOZAFFAR
85191
LICENSED
PROFESSIONAL ENGINEER

THE STANDARD SHEETS SPECIFICALLY IDENTIFIED ON THIS SHEET WITH A "#" HAVE BEEN ISSUED BY ME AND ARE APPLICABLE TO THIS PROJECT.

M. N. MOZAFFAR PE, P.E. 4/23/2024
M. N. MOZAFFAR PE DATE

1 REVISED 06/24/2024

2 REVISED 07/01/2024

Texas Department of Transportation

I.S. ENGINEERS, LLC
7670 WOODWAY DRIVE, SUITE 320
HOUSTON, TEXAS 77063
TBPE REG. # F-11657

I-30
INDEX OF SHEETS

SHEET 1 OF 4

FED.RD. DIV.NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
6	(SEE TITLE SHEET)		I30
STATE	DISTRICT	COUNTY	SHEET NO.
TEXAS	FTW	TARRANT	572
CONTROL	SECTION	JOB	
1068	01	214	

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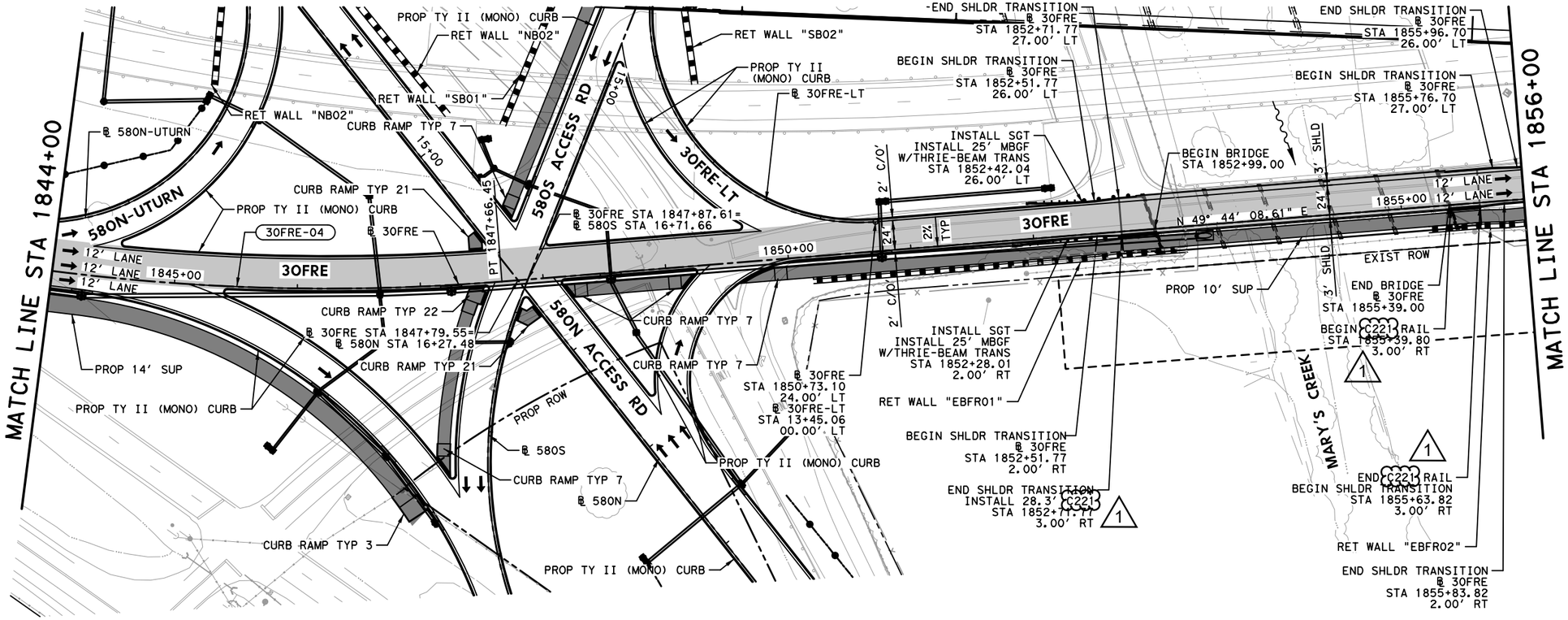
DRAWING DATE: 4/23/2024



HORZ 0' 50' 100'
VERT 0' 5' 10'
SCALE IN FEET

LEGEND:

- MBGF
- CURVE-XX — CURVE DATA NUMBER
- PROPOSED TRAFFIC ARROWS
- XX — PROPOSED DRIVEWAY
- EXISTING ROW
- PROPOSED ROW
- PROPOSED CONSTRUCTION EASEMENT
- PROPOSED SAWCUT LINE
- LIMITS OF PROPOSED CONSTRUCTION LICENSE AGREEMENT
- PROPOSED FULL DEPTH PAVEMENT
- EXISTING EASEMENT
- PROPOSED EASEMENT
- RETAINING WALL
- SUP
- PROPOSED TRAFFIC CHANNELIZATION DEVICES
- PROPOSED CRASH CUSHION ATTENUATOR W/OM
- PROPOSED 5" CONC RIPRAP

NOTES:

1. REFER TO GORE CONTOUR SHEETS FOR ADDITIONAL INFORMATION.
2. REFER TO INTERSECTION LAYOUTS FOR UTURN AND SIDE STREET INFORMATION.
3. REFER TO RETAINING WALL LAYOUTS FOR ADDITIONAL INFORMATION.
4. REFER TO DRIVEWAY TABLE FOR ADDITIONAL INFORMATION.
5. REFER TO BRIDGE LAYOUT FOR ADDITIONAL INFORMATION.
6. ALL SAWCUT LINES ARE PARALLEL TO THE ROADWAY ALIGNMENT UNLESS NOTED OTHERWISE.

SEE EASTBOUND FRONTAGE ROAD
PLAN AND PROFILE SHEET 7 OF 21 FOR
STA 1844+00 TO 1856+00 PROFILE

PROP ELEV
EXIST ELEV

1 REVISED 07/01/2024

STATE OF TEXAS
M. N. MOZAFFAR
85191
LICENSED
PROFESSIONAL ENGINEER
4/14/2024

Texas Department of Transportation

I. S. ENGINEERS, LLC
7670 WOODWAY DRIVE, SUITE 320
HOUSTON, TEXAS 77063
TBPE REG. # F-11657

I-30

EASTBOUND FRONTAGE ROAD PLAN AND PROFILE STA 1844+00 TO STA 1856+00

SHEET 6 OF 21

FED.RD. DIV.NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
6	(SEE TITLE SHEET)		I30
STATE	DISTRICT	COUNTY	SHEET NO.
TEXAS	FTW	TARRANT	
CONTROL	SECTION	JOB	657
1068	01	214	

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DRAWING DATE: 4/14/2024

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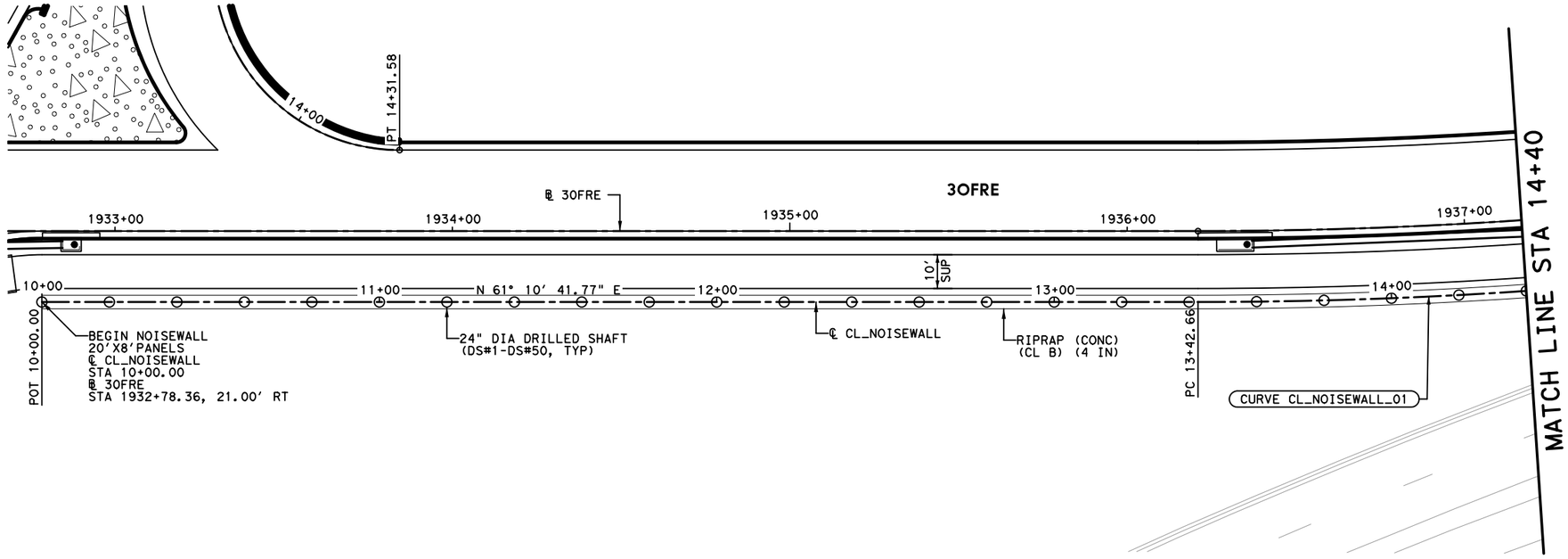


HORZ 0' 20' 40'
VERT 0' 5' 10'
SCALE IN FEET

LEGEND:

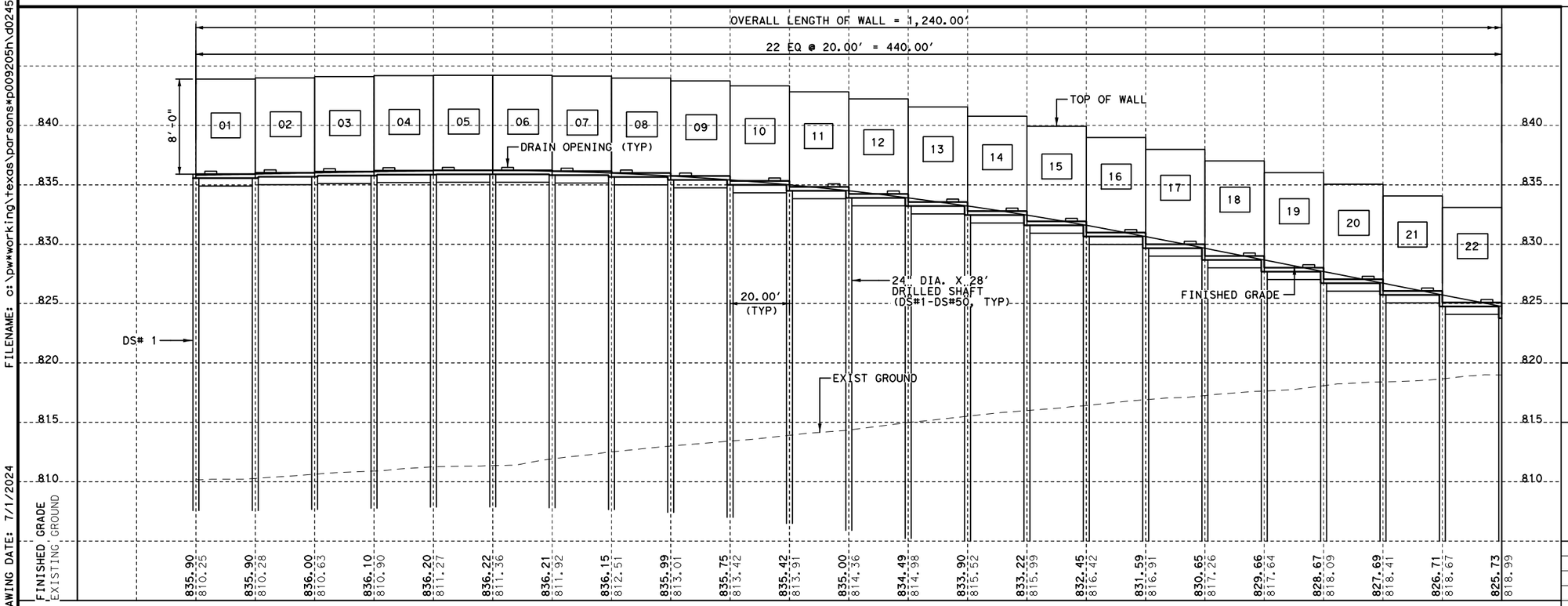
(XXX-XX) CURVE LABEL

XX PANEL NUMBER

NOTES:

1. SEE NOISE WALL DETAILS SHEETS FOR MORE INFORMATION.
2. PLACE FILL SOIL FULL HEIGHT FOR MINIMUM 24 MONTHS PRIOR TO DRILLED SHAFT CONSTRUCTION OF NOISEWALL.
3. RIPRAP (CONC) (CL B) (4 IN) IS SUBSIDIARY TO NOISE WALL ITEM 4017-6001.

2 REVISED 07/01/2024



Texas Department of Transportation

I. S. ENGINEERS, LLC
7670 WOODWAY DRIVE, SUITE 320
HOUSTON, TEXAS 77063
TBPE REG. # F-11657

I-30
NOISEWALL
LAYOUT

SHEET 1 OF 3

FED.RD. DIV.NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
6	(SEE TITLE SHEET)		I30
STATE	DISTRICT	COUNTY	SHEET NO.
TEXAS	FTW	TARRANT	795
CONTROL	SECTION	JOB	
1068	01	214	

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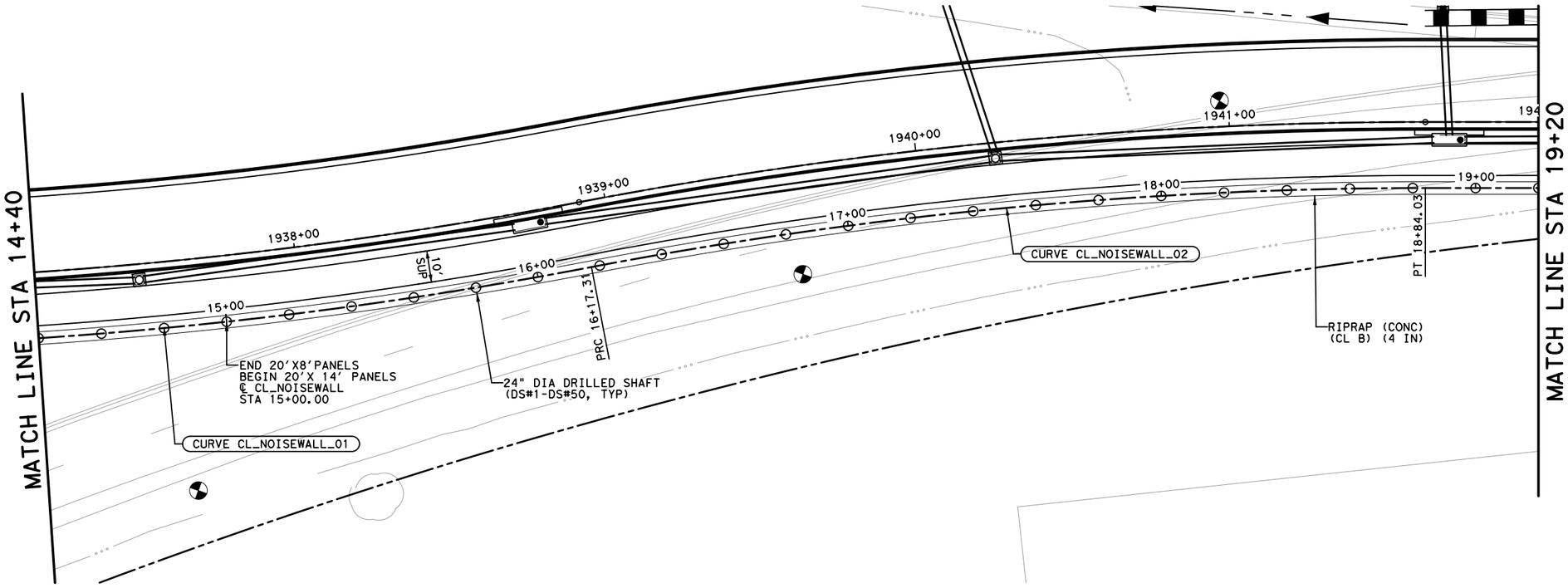

HORZ 0' 20' 40'
VERT 0' 5' 10'
SCALE IN FEET

LEGEND:

(XXX-XX) CURVE LABEL

[XX] PANEL NUMBER

NOTES:

1. SEE NOISE WALL DETAILS SHEETS FOR MORE INFORMATION.
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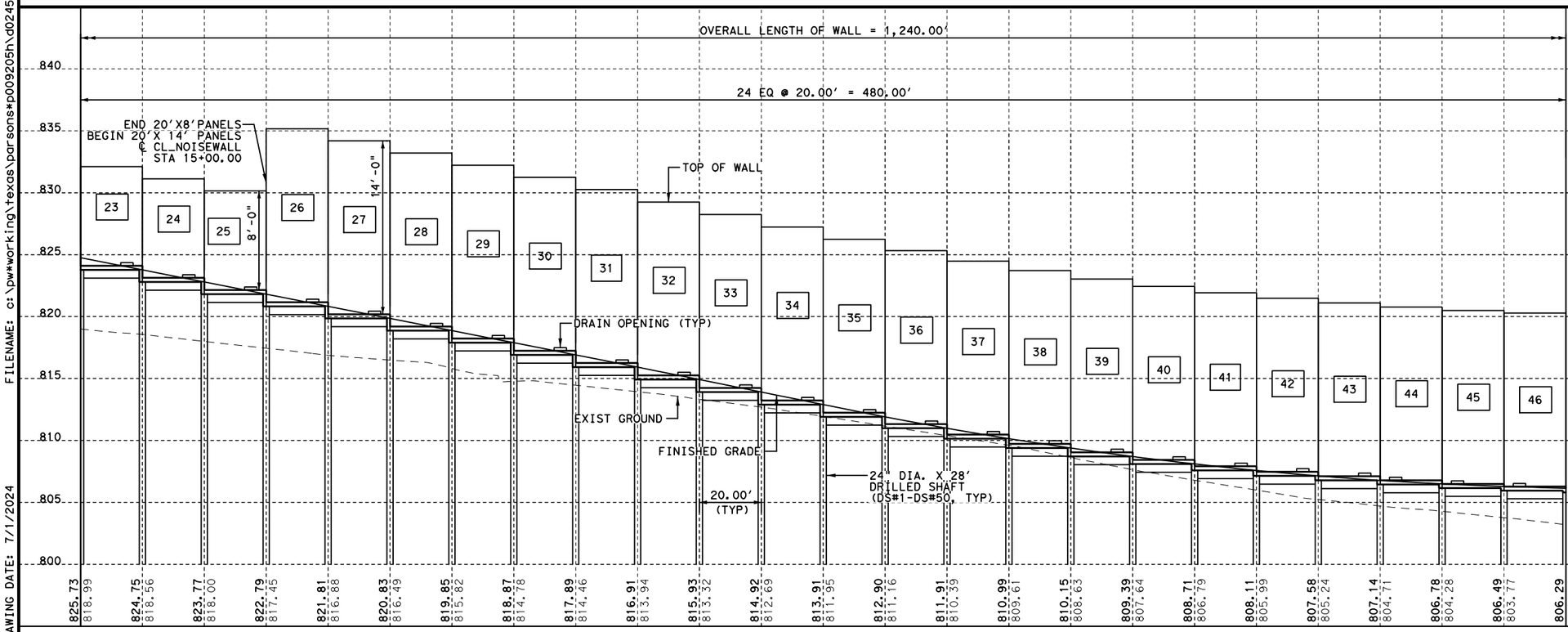
2 REVISED 07/01/2024



Texas Department of Transportation

I. S. ENGINEERS, LLC
7670 WOODWAY DRIVE, SUITE 320
HOUSTON, TEXAS 77063
TBPE REG. # F-11657

I-30
NOISEWALL
LAYOUT

SHEET 2 OF 3

FED.RD. DIV.NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
6	(SEE TITLE SHEET)		I30
STATE	DISTRICT	COUNTY	SHEET NO.
TEXAS	FTW	TARRANT	796
CONTROL	SECTION	JOB	
1068	01	214	

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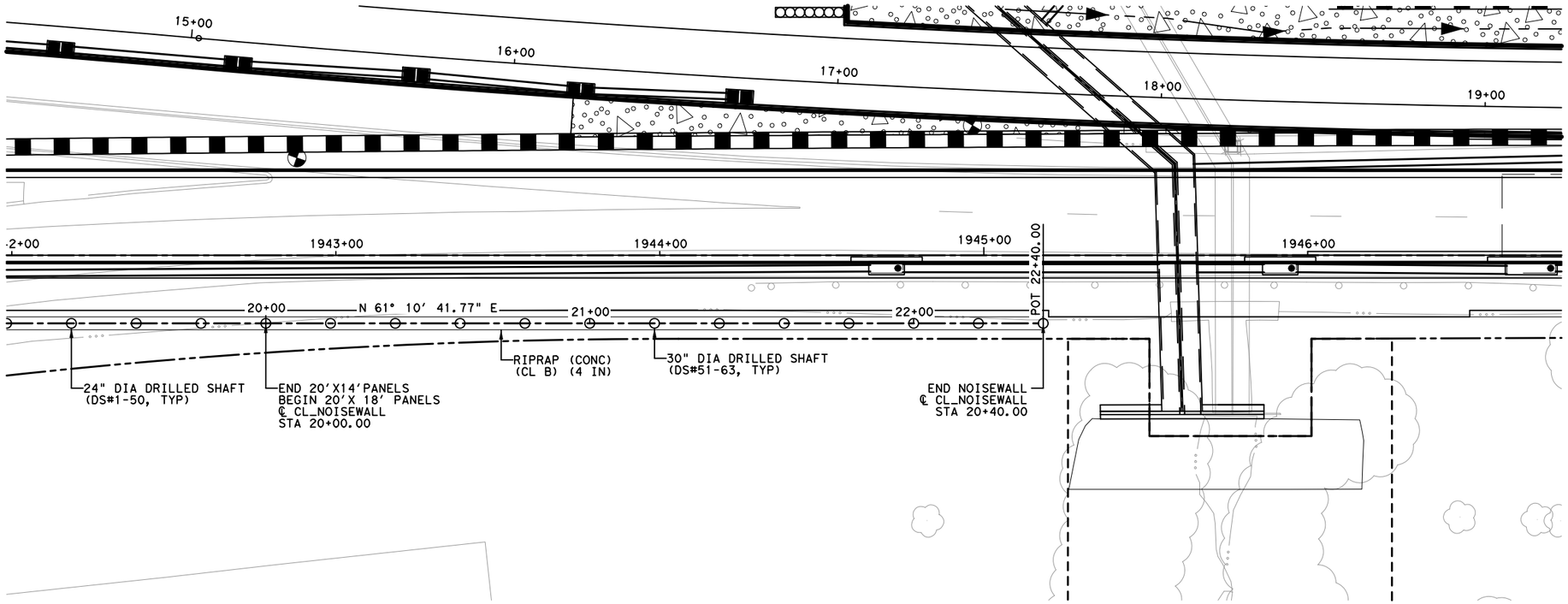


HORZ 0' 20' 40'
VERT 0' 5' 10'
SCALE IN FEET

LEGEND:

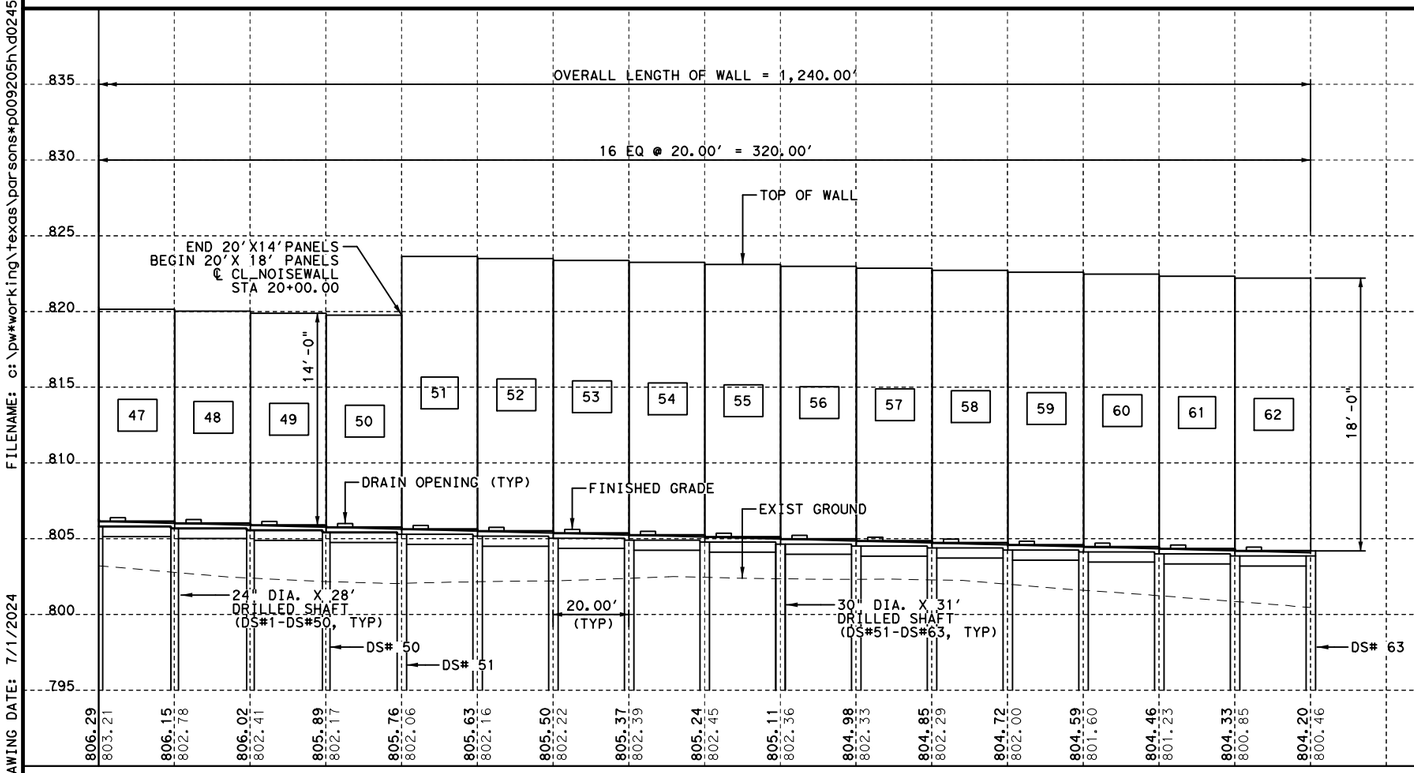
(XXX-XX) CURVE LABEL

XX PANEL NUMBER

NOTES:

1. SEE NOISE WALL DETAILS SHEETS FOR MORE INFORMATION.
2. PLACE FILL SOIL FULL HEIGHT FOR MINIMUM 24 MONTHS PRIOR TO DRILLED SHAFT CONSTRUCTION OF NOISEWALL.
3. RIPRAP (CONC) (CL B) (4 IN) IS SUBSIDIARY TO NOISE WALL ITEM 4017-6001.

2 REVISED 07/01/2024



STATE OF TEXAS
M. N. MOZAFFAR
85191
LICENSED
PROFESSIONAL ENGINEER
7/1/2024

I. S. ENGINEERS, LLC
7670 WOODWAY DRIVE, SUITE 320
HOUSTON, TEXAS 77063
TBPE REG. # F-11657

I-30
NOISEWALL
LAYOUT

SHEET 3 OF 3

FED.RD. DIV.NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
6	(SEE TITLE SHEET)		I30
STATE	DISTRICT	COUNTY	SHEET NO.
TEXAS	FTW	TARRANT	797
CONTROL	SECTION	JOB	
1068	01	214	

FILENAME: c:\pw\working\texas\parsons\p009205h\d0245481\I30*NOISEWALL*03.dgn
DRAWING DATE: 7/1/2024

GENERAL NOTES:

1. THE CONTRACTOR SHALL CONSTRUCT CAST-IN-PLACE OR PRECAST CONCRETE COLUMNS TO SUPPORT THE PRECAST PANELS. THERE MAY BE MULTIPLE PRECAST PANELS STACKED VERTICALLY IN EACH BAY.

2. CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL UTILITIES (OVERHEAD AND UNDERGROUND), AND NOTIFYING THE ENGINEER OF ANY DISCREPANCY BEFORE CONSTRUCTION BEGINS. FOR ADDITIONAL INFORMATION, SEE NOISE WALL LAYOUT. CONTRACTOR SHALL CONTACT UTILITY COMPANIES 48 HOURS PRIOR TO CONSTRUCTION AND TAKE "CAUTION" IN AREAS WHERE UTILITIES ARE CLOSE TOGETHER TO AVOID DAMAGING UTILITIES.

3. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ASPECTS OF ERECTION AND HANDLING OF PRECAST UNITS, INCLUDING BUT NOT LIMITED TO ERECTION DESIGN, CONSTRUCTION SEQUENCE, CRANE OPERATION COORDINATION WITH OVERHEAD UTILITIES, PICK-UP LOCATION, CRADLES, AND PICK-UP INSERTS. THIS WILL NOT BE PAID FOR SEPARATELY, AND WILL BE CONSIDERED SUBSIDIARY.

4. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH THE CITY, TXDOT, RESIDENTS, UTILITIES, AND ABUTTERS WITH REGARD TO THE NOISE WALL. CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL DEVICES RELATED TO THE NOISE WALL CONSTRUCTION AS REQUIRED. THESE WILL NOT BE PAID FOR SEPARATELY, AND WILL BE CONSIDERED SUBSIDIARY.

5. MATERIAL AND CONSTRUCTION SPECIFICATIONS: TEXAS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION OF HIGHWAYS, STREET AND BRIDGES (2014), SPECIAL SPECIFICATIONS AND SPECIAL PROVISIONS THERETO.

6. DESIGN OF PRECAST NOISE WALL IS IN ACCORDANCE WITH 2020 AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS (9TH EDITION) AND INTERIM REVISIONS THERETO.

7. NOISE WALLS ARE DESIGNED FOR A MAXIMUM WALL HEIGHT OF 18′-0" AND A MAXIMUM WIND SPEED OF 80 MPH (SERVICE) AND 115 MPH (STRENGTH). NO TRAFFIC IMPACT LOADS ARE APPLIED TO NOISE WALL.

8. ALL PRECAST CONCRETE SHALL BE CLASS H f′c = 4,000 PSI (28 DAYS STRENGTH).

9. ALL CAST-IN-PLACE CONCRETE SHALL BE CLASS F f′c = 4,000 PSI (28 DAYS STRENGTH).

10. DRILLED SHAFT CONCRETE SHALL BE CLASS C f′c = 3,600 PSI (28 DAYS STRENGTH).

11. ALL REINFORCEMENT SHALL BE NON-EPOXY ASTM A-615 GRADE 60 OR EQUIVALENT WELDED WIRE FABRIC REINFORCING AS REQUIRED BY THE PRECAST MANUFACTURER.

12. ALL DIMENSIONS TO REINFORCING STEEL SHOWN ON THE DRAWINGS ARE TO THE CENTERLINE OF BAR UNLESS OTHERWISE NOTED.

13. THE MINIMUM LAP SPLICE AND EMBEDMENT LENGTHS, NOT SHOWN ON DRAWINGS, SHALL BE IN ACCORDANCE WITH THE CURRENT TxDOT BRIDGE DETAILING GUIDE.

14. MINIMUM CLEARANCE TO REINFORCING STEEL SHALL BE 1½ INCHES (EXCLUDING FORM LINER) UNLESS OTHERWISE NOTED.

15. REINFORCEMENT DETAILING, BAR SUPPORTS, SPACERS AND ACCESSORIES NOT SHOWN IN THE PLANS SHALL BE IN ACCORDANCE WITH THE RECOMMENDATIONS OF CURRENT ACI DETAILING MANUAL.

16. CHAMFER ALL EXPOSED CONCRETE EDGES ¾" UNLESS OTHERWISE NOTED.

17. CONCRETE WORK SHALL BE COORDINATED AND VERIFIED WITH ALL OTHER TRADES TO ASSURE PROPER PROVISIONS FOR INSERTS, CONDUITS, JUNCTION BOXES, PULL BOXES, SLEEVES, ARCHITECTURAL REQUIREMENTS AND THE LIKE, BEFORE PLACEMENT OF CONCRETE. REFER TO SPECIFICATIONS.

18. CASTING TOLERANCES:
    OVERALL HEIGHT AND WIDTH: ±3/16"
    THICKNESS: ±3/16"
    PLANE OF SIDE MOLD: ±1/16"
    OPENINGS: ±½"
    OUT OF SQUARE: ⅛" PER 6 FT., BUT NOT MORE THAN ⅜" TOTAL ALONG ANY SIDE
    WARPING: 1/16" PER FOOT DISTANCE TO NEAREST CORNER
    BOWING: ±¼" PER 10′

19. POST AND PANEL SURFACE SHALL BE RUB FINISH IN ACCORDANCE WITH ITEM 427.

20. DRILLED SHAFTS ARE DESIGNED FOR COMBINED SKIN FRICTION AND POINT BEARING.

21. IF, DURING THE DRILLING OF THE DRILLED SHAFTS:
    * DARK GRAY SHALE IS ENCOUNTERED, THE MINIMUM PENETRATION INTO DARK GRAY SHALE SHALL BE 4 FEET.
    * GRAY SANDSTONE IS ENCOUNTERED, THE MINIMUM PENETRATION INTO GRAY SANDSTONE SHALL BE 1 FOOT.
    * MINIMUM DRILLED SHAFT LENGTH IS 20′-0" FOR ANY LOCATION WITH GRAY SHALE OR SANDSTONE ENCOUNTERED.

22. DRILLED SHAFT CONSTRUCTION AND INSTALLATION SHOULD FOLLOW TxDOT STANDARD SPECIFICATION ITEM 416, TxDOT CONSTRUCTION BULLETIN C-9, AND ACI 336.1-89. SLURRY DISPLACEMENT METHODS FOR DRILLED SHAFT CONSTRUCTION ARE ALLOWED UNDER TxDOT STANDARD SPECIFICATIONS.

23. DRILLED SHAFT EXCAVATIONS SHOULD BE INSPECTED FOR VERTICALITY AND SIDE SLOUGHING. VERTICALITY IS SPECIFIED AT ONE INCH IN TEN FEET OF THE SHAFT LENGTH, AND SHOULD BE CHECKED TO THE FULL DEPTH OF DRY AUGERING PRIOR TO INTRODUCING DRILLING MUD.

24. BEFORE PLACING CONCRETE, THE SHAFT BOTTOM SHOULD BE CLEANED OUT WITH A DRILLING BUCKET IN ORDER TO REMOVE ANY SEDIMENTS THAT MAY NOT BE DISPLACED BY THE CONCRETE. THE SHAFT BOTTOMS SHOULD BE CLEANED WITH A "CLEAN-OUT" BUCKET UNTIL ROTATION ON THE BOTTOM WITHOUT CROWD (I.E. PENETRATION UNDER FORCE) PRODUCES LITTLE SPOIL. PROBING AFTER CLEAN OUT IS ESSENTIAL TO VERIFY THE CONDITION OF THE BASE OF THE SHAFT.

25. CONCRETE PLACEMENT SHOULD BE ACCOMPLISHED AS DIRECTED IN TXDOT STANDARD SPECIFICATION ITEM 416.3.3. THE TREMIE PIPE DIAMETER SHOULD BE AT LEAST EIGHT TIMES AS LARGE AS THE LARGEST CONCRETE AGGREGATE SIZE.

26. A COMPUTATION OF THE FINAL CONCRETE VOLUME FOR EACH SHAFT SHOULD BE MADE. SHAFTS TAKING AN UNREASONABLY HIGH OR LOW VOLUME OF CONCRETE SHOULD BE CORED TO CHECK THEIR INTEGRITY.

24. CASING AND/OR SLURRY MAY BE NEEDED TO PREVENT GROUNDWATER AND CAVING IN. IF CASING IS USED, THE LEVEL OF CONCRETE WITHIN THE CASING SHOULD BE MAINTAINED WELL ABOVE THE GROUNDWATER LEVEL OUTSIDE THE CASING PRIOR TO AND DURING EXTRACTION. THE CASING SHOULD BE EXTRACTED SLOWLY AND SMOOTHLY WITH A VIBRATORY HAMMER WITHOUT ROTATION. THE DESIGN ANALYSES ASSUME NO CASING WILL BE LEFT IN PLACE. IF THE TEMPORARY CASING CANNOT BE REMOVED, THE ENGINEER IN CHARGE MUST ASSESS THE INFLUENCE OF THE CASING ON THE AXIAL RESISTANCE OF THE DRILLED SHAFT.

25. SHAFT EXCAVATIONS SHOULD NOT BE MADE WITHIN THREE SHAFT DIAMETERS (EDGE TO EDGE) OF SHAFTS THAT HAVE BEEN CONCRETED WITHIN THE LAST 24 HOURS.

26. BASED ON THE CONDITIONS ENCOUNTERED IN THE BORINGS, HARD, RESISTANT SANDSTONE COULD BE ENCOUNTERED DURING SHAFT EXCAVATION. SHAFT EXCAVATION IN SANDSTONE MAY BE DIFFICULT. APPROPRIATE EXCAVATION EQUIPMENT SHOULD BE USED IN SANDSTONE

27. VOID FORMS WILL NOT BE PAID SEPARATELY, AND WILL BE CONSIDERED SUBSIDIARY.

FILENAME: c:\pw\working\texas\parsons\p009205fh\d0245481\NOISEWALL GENERAL NOTES.dgn
DRAWING DATE: 7/1/2024

2 ADDED 07/01/2024

STATE OF TEXAS
CHRIS M. GILSTRAP
80602
REGISTERED PROFESSIONAL ENGINEER
07/01/2024

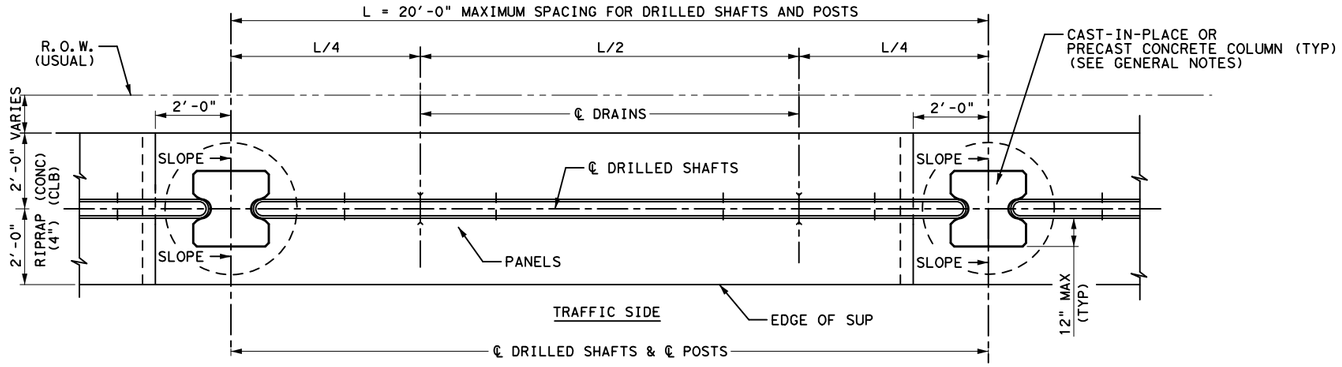
Texas Department of Transportation

PARSONS
TBPE Registration No. F-1481

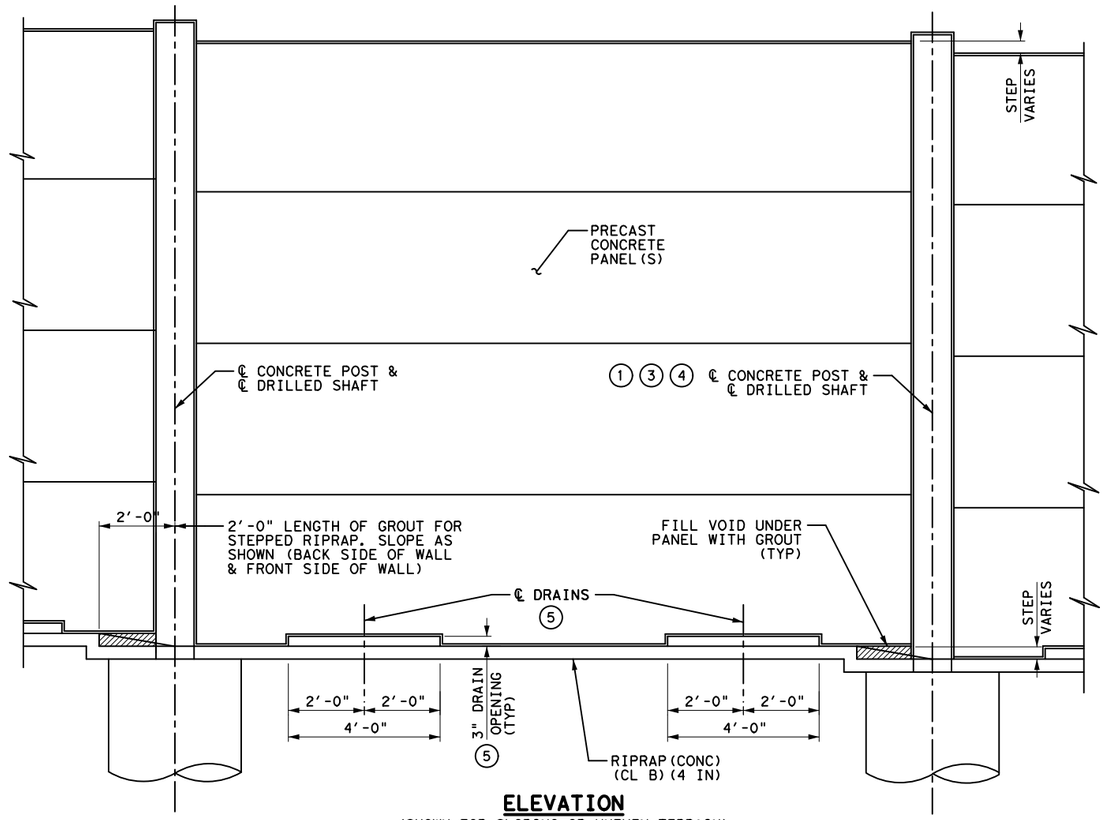
I30
NOISEWALL
GENERAL NOTES

SHEET 1 OF 1

FED.RD. DIV.NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
6	(SEE TITLE SHEET)		I30
STATE	DISTRICT	COUNTY	SHEET NO.
TEXAS	FTW	TARRANT	797A
CONTROL	SECTION	JOB	
1068	01	214	



PLAN



ELEVATION
(SHOWN FOR SLOPING OR UNEVEN TERRAIN)

SHAFT	TOP OF D.S. ELEVATION	LENGTH (FT)
1	835.57	28
2	835.57	28
3	835.67	28
4	835.77	28
5	835.86	28
6	835.88	28
7	835.81	28
8	835.66	28
9	835.41	28
10	835.00	28
11	834.49	28
12	833.90	28
13	833.22	28
14	832.45	28
15	831.59	28
16	830.65	28
17	829.66	28
18	828.67	28
19	827.69	28
20	826.71	28
21	825.73	28
22	824.75	28
23	823.77	28
24	822.79	28
25	821.81	28
26	820.83	28
27	819.85	28
28	818.87	28
29	817.89	28
30	816.91	28
31	815.93	28
32	814.92	28
33	813.91	28
34	812.90	28
35	811.91	28
36	810.99	28
37	810.15	28
38	809.39	28
39	808.71	28
40	808.11	28
41	807.58	28
42	807.14	28
43	806.78	28
44	806.44	28
45	806.16	28
46	805.95	28
47	805.81	28
48	805.68	28
49	805.55	28
50	805.43	28
51	805.30	31
52	805.17	31
53	805.04	31
54	804.91	31
55	804.78	31
56	804.65	31
57	804.52	31
58	804.39	31
59	804.26	31
60	804.13	31
61	804.00	31
62	803.87	31
63	803.87	31

DRILLED SHAFT TABLE

STATE OF TEXAS
CHRIS M. GILSTRAP
80602
REGISTERED PROFESSIONAL ENGINEER
07/01/2024

① PROVIDE BEARING PAD BETWEEN PRECAST ELEMENTS AND FOUNDATION. SUBMIT DESIGN FOR REVIEW AND APPROVAL.

② ADJUST DIMENSION FOR MANUFACTURER DESIGN.

③ WALL MANUFACTURER IS RESPONSIBLE FOR PANEL CONNECTION TO COLUMN AND COLUMN CONNECTION TO DRILLED SHAFT FOUNDATION.

④ MANUFACTURER DESIGN FOR STRUCTURAL ELEMENTS OF NOISE WALL, INCLUDING PRECAST WALL PANEL, COLUMN, COPING, WALL STEP, AND CONNECTION TO DRILLED SHAFT AND MISC. STRUCTURES SHALL BE SUBMITTED TO ENGINEER FOR REVIEW AND APPROVAL BEFORE CONSTRUCTION AND SHALL BE SEALED BY A REGISTERED ENGINEER IN THE STATE OF TEXAS.

⑤ MINIMUM OF 1 DRAIN OPENING PER PANEL, MAXIMIM OF 2. SEE LAYOUT ELEVATION FOR PROPOSED LOCATION.

2 ADDED 07/01/2024

PARSONS
TBPE Registration No. F-1481

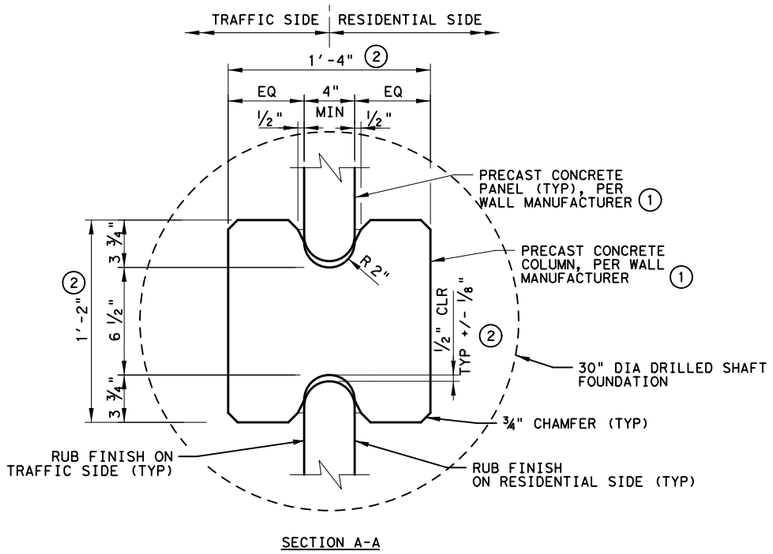
I30
NOISEWALL
DETAILS

SHEET 1 OF 2

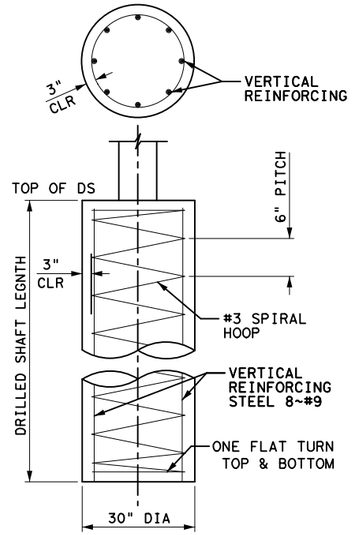
FED.RD. DIV.NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
6	(SEE TITLE SHEET)		I30
STATE	DISTRICT	COUNTY	SHEET NO.
TEXAS	FTW	TARRANT	
CONTROL	SECTION	JOB	797B
1068	01	214	

10/11/15

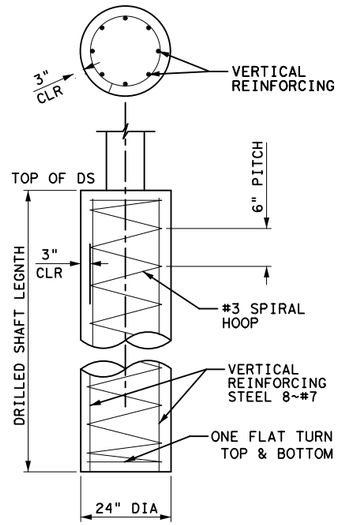
DRAWING DATE: 7/1/2024 FILENAME: c:\pw\working\texas\parsons\p009205h\d0245481\NOISEWALL DETAILS.dgn



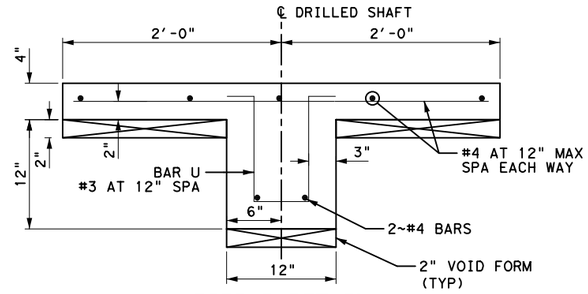
SECTION A-A



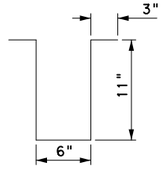
30" DRILLED SHAFT



24" DRILLED SHAFT



RIPRAP DETAIL



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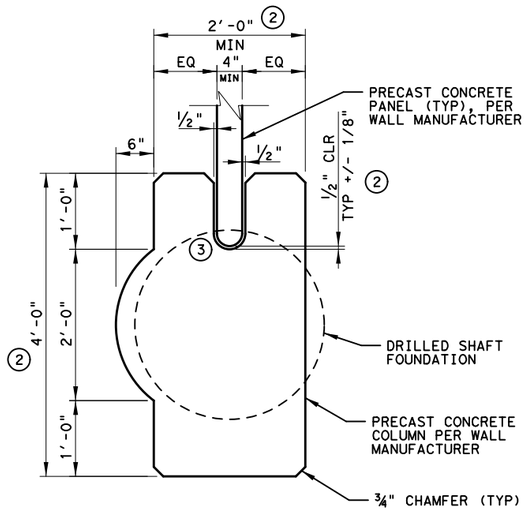
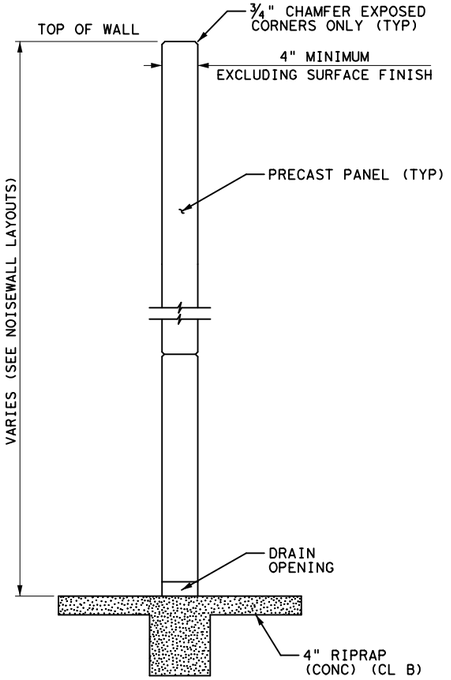


END COLUMN SECTION
REQ'D AT ALL ENDS



TYPICAL SECTION

(1) PROVIDE BEARING PAD BETWEEN PRECAST ELEMENTS AND FOUNDATION. SUBMIT DESIGN FOR REVIEW AND APPROVAL.

(2) ADJUST DIMENSION FOR MANUFACTURER DESIGN.

(3) WALL MANUFACTURER IS RESPONSIBLE FOR PANEL CONNECTION TO COLUMN AND COLUMN CONNECTION TO DRILLED SHAFT FOUNDATION.

(4) MANUFACTURER DESIGN FOR STRUCTURAL ELEMENTS OF NOISE WALL, INCLUDING PRECAST WALL PANEL, COLUMN, COPING, WALL STEP, AND CONNECTION TO DRILLED SHAFT AND MISC. STRUCTURES SHALL BE SUBMITTED TO ENGINEER FOR REVIEW AND APPROVAL BEFORE CONSTRUCTION AND SHALL BE SEALED BY A REGISTERED ENGINEER IN THE STATE OF TEXAS.

(5) MINIMUM OF 1 DRAIN OPENING PER PANEL, MAXIMIM OF 2. SEE LAYOUT ELEVATION FOR PROPOSED LOCATION.

STATE OF TEXAS
CHRIS M. GILSTRAP
80602
REGISTERED PROFESSIONAL ENGINEER

07/01/2024

Texas Department of Transportation

PARSONS
TBPE Registration No. F-1481

I30
NOISEWALL
DETAILS

SHEET 2 OF 2

FED.RD. DIV.NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
6	(SEE TITLE SHEET)		I30
STATE	DISTRICT	COUNTY	SHEET NO.
TEXAS	FTW	TARRANT	797C
CONTROL	SECTION	JOB	
1068	01	214	

2 ADDED 07/01/2024

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DRAWING DATE: 7/1/2024

DATE: 6/28/2024
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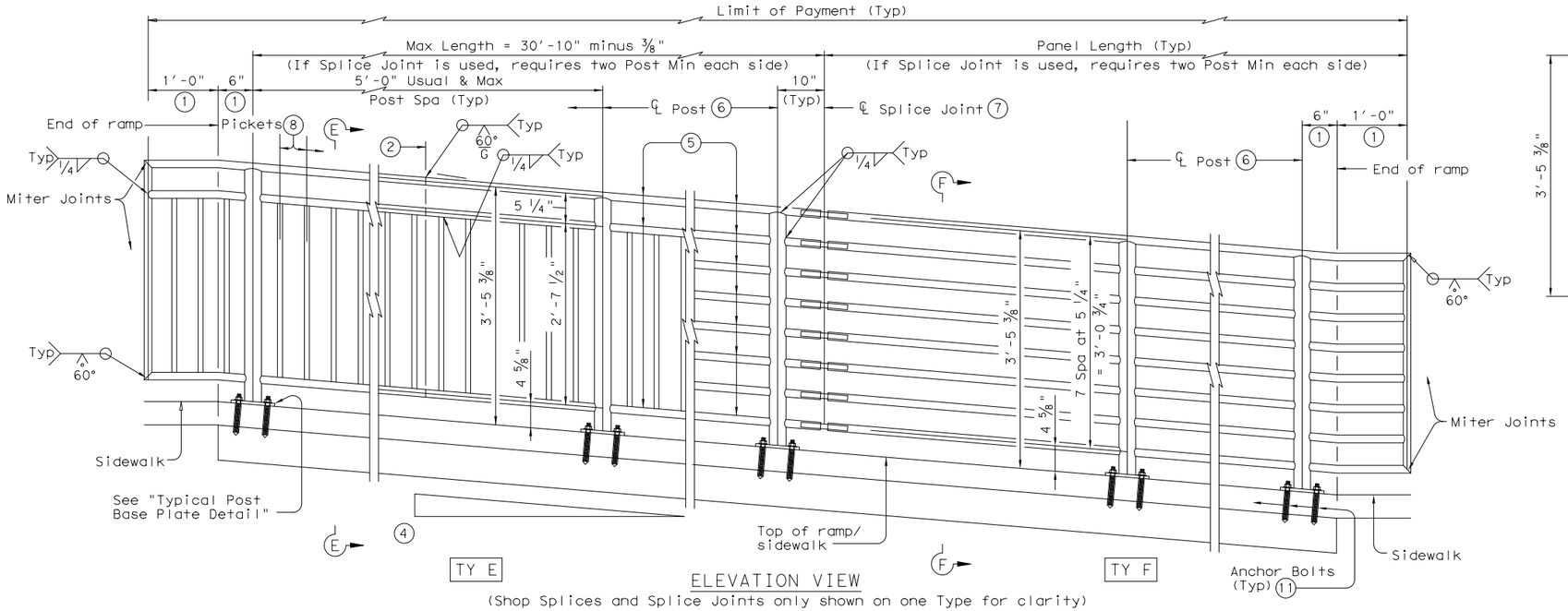
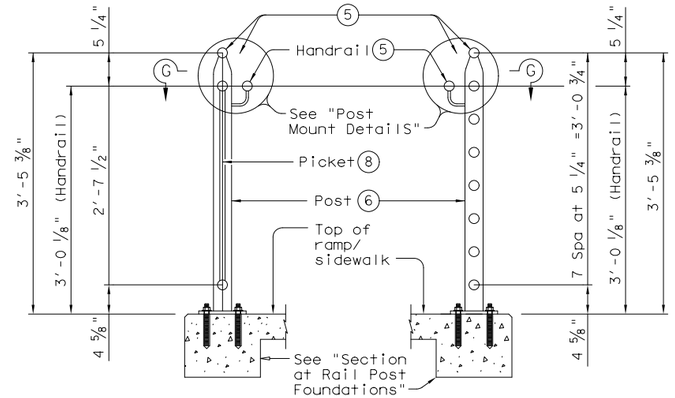


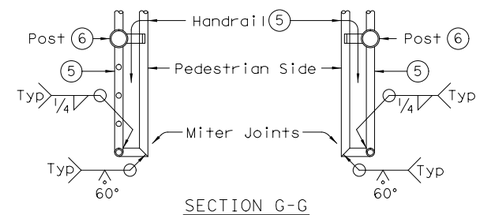
ELEVATION VIEW

(Shop Splices and Splice Joints only shown on one Type for clarity)

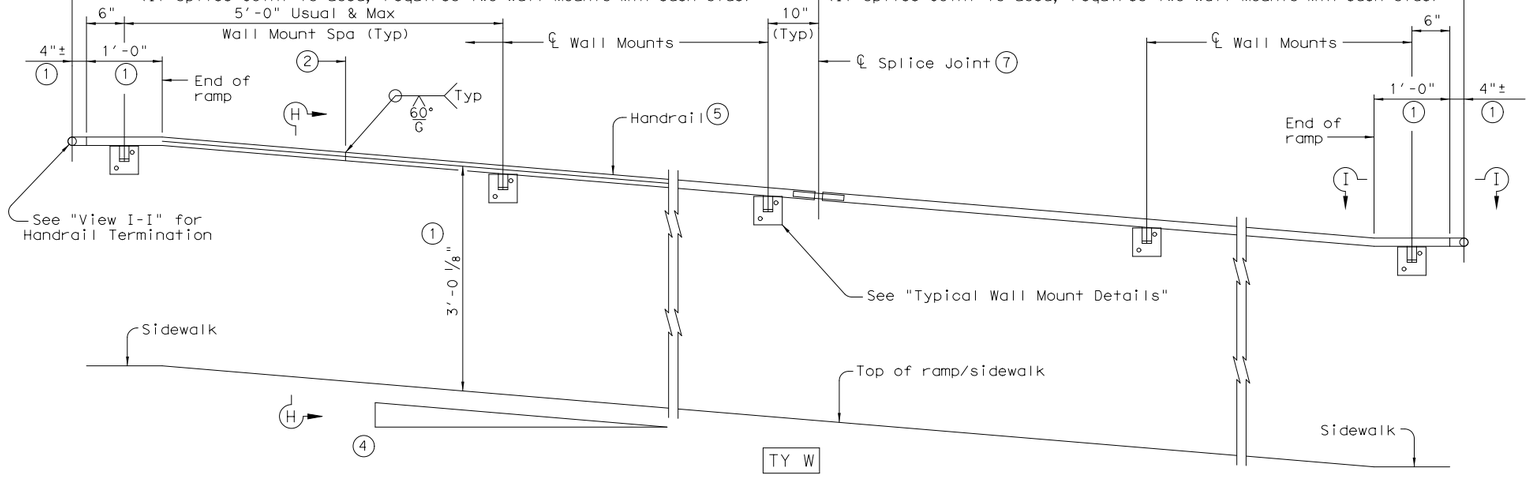


SECTION E-E
(Showing Handrail TY E)

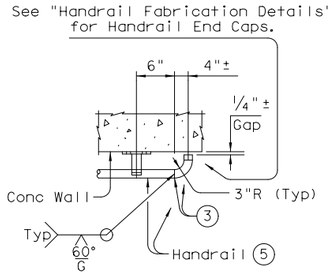
SECTION F-F
(Showing Handrail TY F)



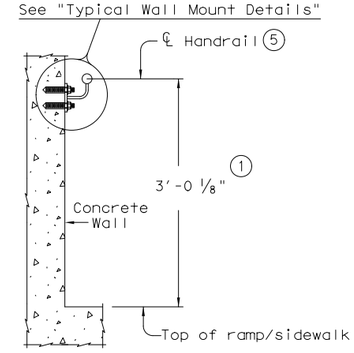
SECTION G-G
(Showing Handrail Termination)



ELEVATION VIEW



VIEW I-I
(Showing Handrail Termination)



SECTION H-H
(Showing Handrail TY W)

(1) Parallel to ground.

(2) One shop splice per panel is permitted with minimum 85 percent penetration. The weld may be square groove or single vee groove. Grind smooth.

(3) Shop splice is permitted with minimum 85 percent penetration. The weld may be square groove or single vee groove. Grind smooth.

(4) See Ramp Details located elsewhere in plans for ramp slope and dimensions. Maximum ramp slope will not exceed 8.3 percent. Level landing required for each 30" rise if grade exceeds 5 percent.

(5) 1 ½" Dia. Standard Pipe (1.900" O.D., 0.145" wall thickness). Parallel to ramp / sidewalk. Provide holes as needed in 1 ½" Dia. pipe for galvanizing drainage and venting.

(6) 2 ½" Dia. Standard Pipe (2.875" O.D., 0.203" wall thickness). See "Post Mount Detail" for crimping and trimming post to fit Dia. of top rail. Provide holes as needed in post for galvanizing drainage and venting. Plumb all posts.

(7) See "Handrail Fabrication Details" for Splice Joints.

(8) ℄ ⅝" Dia. Round Bar equal spacing at 4 ½" Max. Plumb all pickets.

(11) See "General Notes" for anchor bolt information.

2 ADDED 07/01/2024

Texas Department of Transportation | Design Division Standard

PEDESTRIAN HANDRAIL DETAILS

PRD-13

FILE: prd13.dgn	DN: TxDOT	CK: AM	DW: JTR	CK: CGL
©TxDOT December 2006	CONT	SECT	JOB	HIGHWAY
REVISIONS REVISED MAY, 2013 (VP)	1068	01	214	I30
	DIST	COUNTY		SHEET NO.
	FTW	TARRANT		839B

DATE: 6/28/2024
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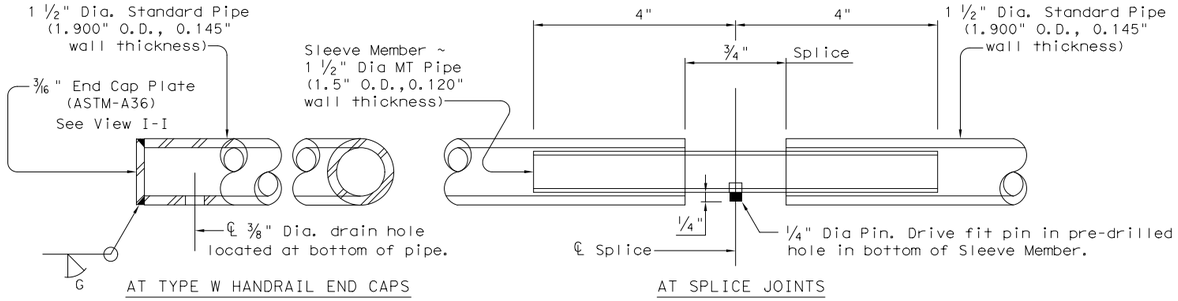
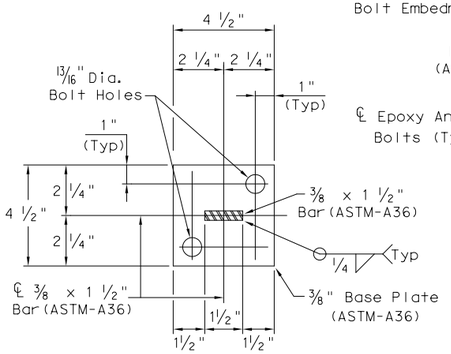


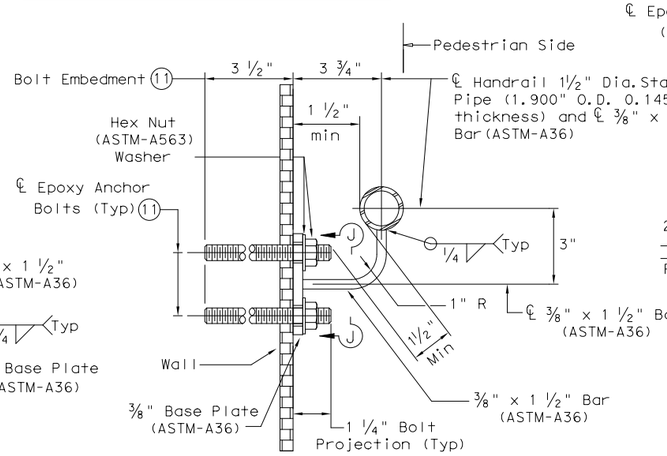
AT TYPE W HANDRAIL END CAPS

AT SPLICE JOINTS

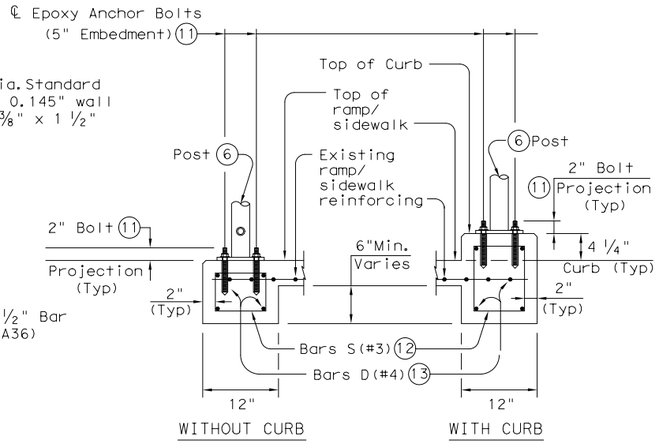
HANDRAIL FABRICATION DETAILS



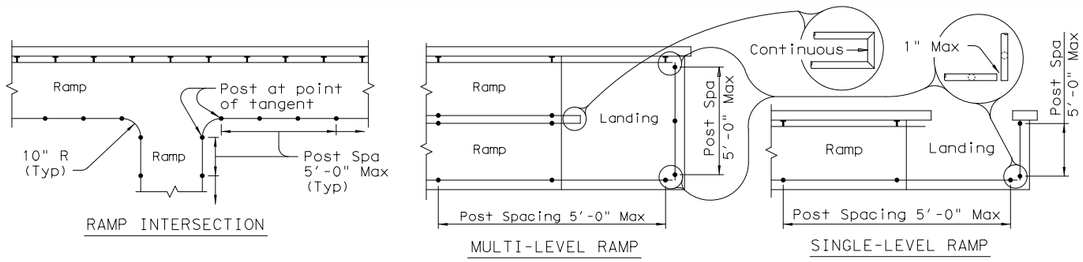
SECTION J-J
(Anchor Bolts not shown for clarity)



SECTION AT WALL MOUNT



SECTION AT RAIL POST FOUNDATIONS



PLAN SHOWING RAIL AT RAMP CONDITIONS

TYPICAL WALL MOUNT DETAILS

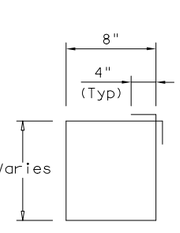
(5) 1 ½" Dia. Standard Pipe (1.900" O.D., 0.145" wall thickness). Parallel to ramp/sidewalk. Provide holes as needed in 1 ½" Dia. pipe for galvanizing drainage and venting.

(6) 2 ½" Dia. Standard Pipe (2.875" O.D., 0.203" wall thickness). Plumb all posts. See "Post Mount Detail" for crimping and trimming post to fit the diamenter of top rail. Provide holes as needed in post for galvanizing drainage and venting.

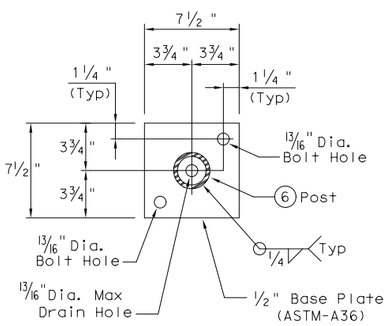
(11) See "General Notes" for anchor bolt information.

(12) Bars S(#3) spaced at 12" Max (Spaced 3" from outside edge of overall length of Ramp/Sidewalk).

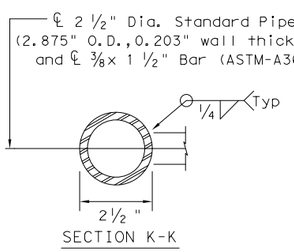
(13) Provide 1 ½" end cover to Bars D(#4) from outside edge of overall length of Ramp/Sidewalk.



BARS S (#3)

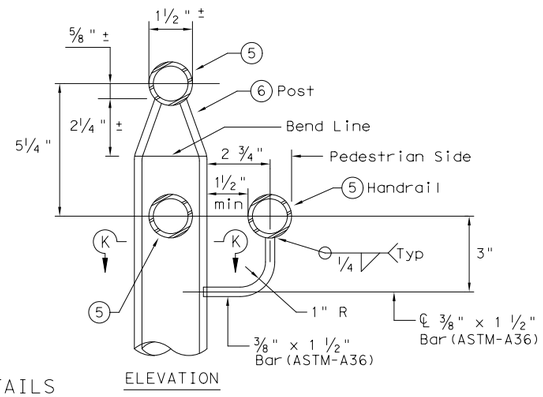


TYPICAL POST BASE PLATE DETAIL



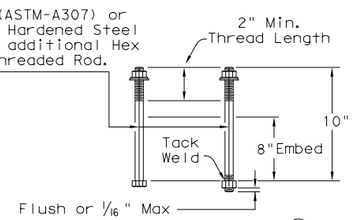
SECTION K-K

POST MOUNT DETAILS



ELEVATION

℄ 5/8" Dia. Hex Head Anchor Bolt (ASTM-A307) or Threaded Rod (ASTM-A36) with one Hardened Steel Washer placed under Hex Nut. One additional Hex Nut will be furnished for each Threaded Rod.



CAST-IN-PLACE ANCHOR BOLT OPTIONS (11)
(Used for Post Base Plate only)

GENERAL NOTES

Designed according to ADAAG, Texas Accessibility Standards, Uniform Building Code, and AASHTO LRFD Specifications.

Handrail anchorage details shown on this standard may require modification for select structure types. See appropriate details elsewhere in plans for these modifications.

Pipe will conform to ASTM-A53 Grade B or A500 Grade B. Steel plates and steel bars will conform to ASTM-A36. Mechanical tubing (MT) will conform to ASTM A513 Grade 1015 or higher. Galvanize all steel components except reinforcing steel unless noted otherwise.

Concrete for foundations will be in accordance with Item 531 "Sidewalks". All reinforcing steel must be Grade 60. Bar laps, where required, will be as follows: Uncoated ~ #4 = 1'-5" Epoxy coated ~ #4 = 2'-1"

When the plans require painted steel, follow the requirements for painting galvanized steel in Item 446, "Cleaning and Painting Steel". Sleeve Members will receive galvanization and only get field painted after installation unless directed otherwise by Engineer.

Epoxy Anchor bolts for wall mount and post base plate will be ⅝" Dia. ASTM A36 threaded rods with one hex nut and one hardened steel washer at each bolt. ⅝" Dia. threaded rod embedment depth for wall mounts is 3 ½" and embedment depth for post base plate is 5".

Embed threaded rods into concrete with a Type III (Class C) epoxy meeting the requirements of DMS-6100, "Epoxies and Adhesives". Mix and dispense adhesive with the manufacturer's static mixing nozzle/dual cartridge system. Core drill holes (percussion drilling not permitted).

At the contractor's option the post base plate anchor bolts may be cast with the Ramp/Sidewalk (See Cast-in-Place Anchor Bolt Options).

Optional cast-in-place anchor bolts will be ⅝" Dia ASTM A307 Grade A bolts (or A36 threaded rods with one tack welded hex nut each) with one hex nut and one hardened steel washer at each bolt. Embedment depth of cast-in-place bolt will be 8" for post base plate.

Handrails and any wall or other surface adjacent to them will be free of any sharp or abrasive elements.

Submit shop drawings to the Engineer unless otherwise noted. For curved handrail applications, fabricate the handrail to the curve if radius is less than 600 ft. Shop drawings are required when rail is fabricated to the curve.

For all handrails, erection drawings will be submitted to the Engineer for approval to ensure proper installation.

Drawings will show handrail mount locations with bolts setting, spacing, ramp slope, and/or splice joint locations, and handrail lengths with identification showing where each handrail goes on the layout.

Payment for concrete sidewalks or curb ramps will be paid for in accordance with Item 531 "Sidewalks".

Payment for all items shown is to be included in unit price bid in accordance with Item 450 "Railing" of the type specified.

All exposed edges will be rounded or chamfered to approximately ⅛" by grinding.

Texas Department of Transportation | Design Division Standard

PEDESTRIAN HANDRAIL DETAILS

PRD-13

FILE: prd13.dgn	DN: TxDOT	CK: AM	DW: JTR	CK: CGL
©TxDOT December 2006	CONT	SECT	JOB	HIGHWAY
REVISIONS	1068	01	214	I30
REVISED MAY, 2013 (VP)	DIST	COUNTY		SHEET NO.
	FTW	TARRANT		839C

2 ADDED 07/01/2024 :

DATE: 6/28/2024
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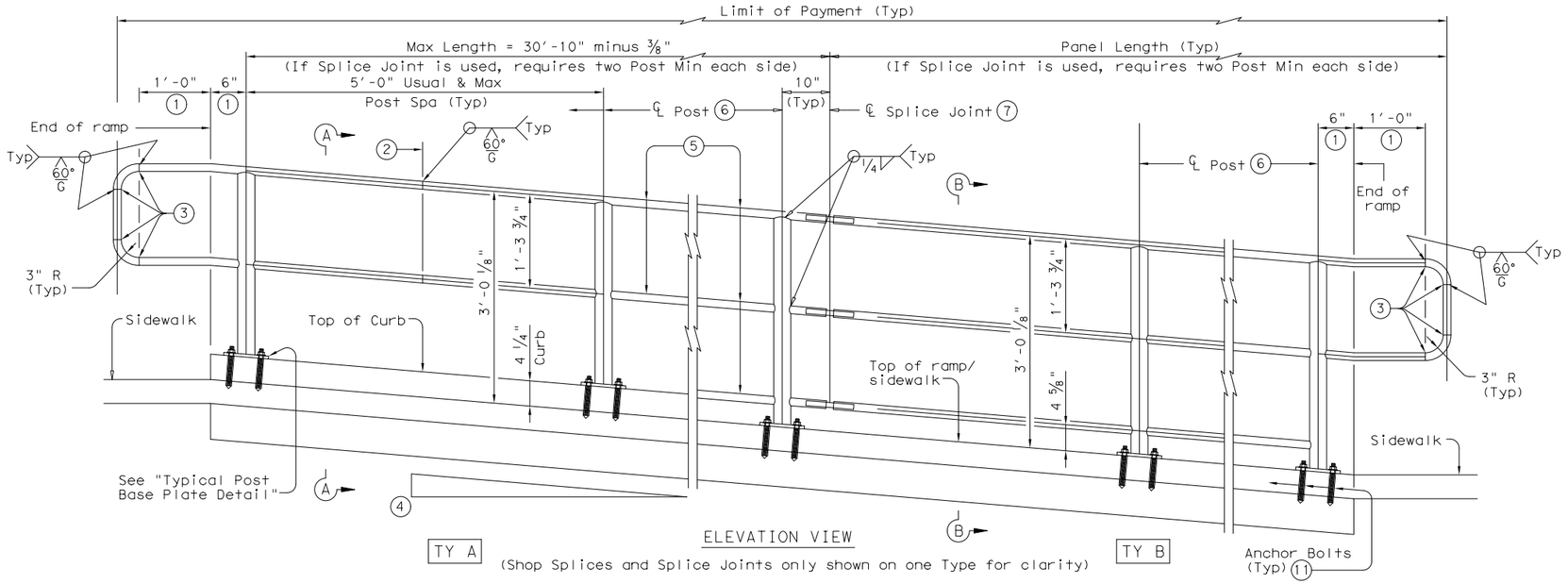
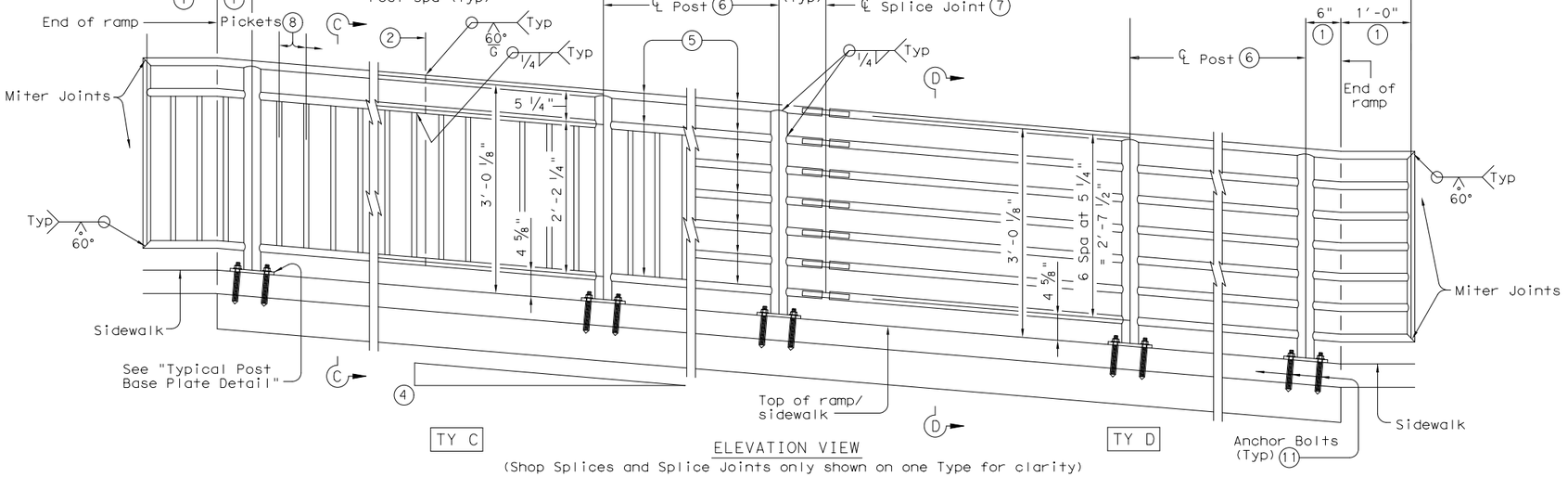


ELEVATION VIEW

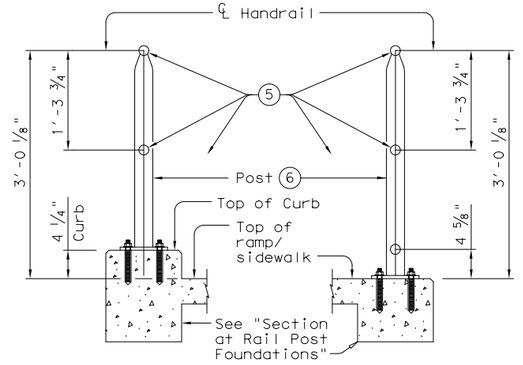
(Shop Splices and Splice Joints only shown on one Type for clarity)



ELEVATION VIEW

(Shop Splices and Splice Joints only shown on one Type for clarity)

RECOMMENDED USAGE ⑨⑩	
Dropoff Height/ Condition	Recommended Rail Options
< 30" dropoff	TY A, TY B, TY C, or TY D
≥ 30" dropoff, or along Bike Path	TY E or TY F

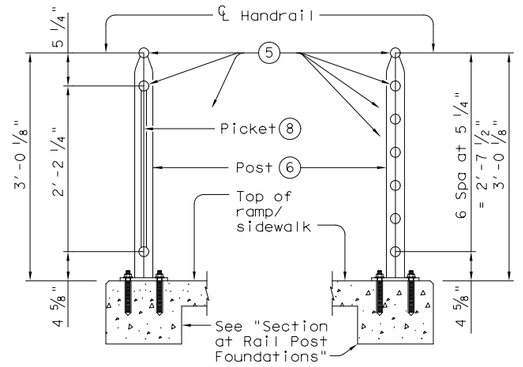


SECTION A-A

(Showing Handrail TY A)

SECTION B-B

(Showing Handrail TY B)



SECTION C-C

(Showing Handrail TY C)

SECTION D-D

(Showing Handrail TY D)

1. Parallel to ground.
2. One shop splice per panel is permitted with minimum 85 percent penetration. The weld may be square groove or single vee groove. Grind smooth.
3. Shop splice is permitted with minimum 85 percent penetration. The weld may be square groove or single vee groove. Grind smooth.
4. See Ramp Details located elsewhere in plans for ramp slope and dimensions. Maximum ramp slope will not exceed 8.3 percent. Level landing required for each 30" rise if grade exceeds 5 percent.
5. 1 ½" Dia. Standard Pipe (1.900" O.D., 0.145" wall thickness). Parallel to ramp / sidewalk. Provide holes as needed in 1 ½" Dia. pipe for galvanizing drainage and venting.
6. 2 ½" Dia. Standard Pipe (2.875" O.D., 0.203" wall thickness). See "Post Mount Detail" for crimping and trimming post to fit Dia. of top rail. Provide holes as needed in post for galvanizing drainage and venting. Plumb all posts.
7. See "Handrail Fabrication Details" for Splice Joints.
8. ℄ ⅝" Dia. Round Bar equal spacing at 4 ½" Max. Plumb all pickets.
9. When needed for accessibility (grade > 5 percent) or as needed for pedestrian safety.
10. Not to be used on bridges.
11. See "General Notes" for anchor bolt information.

2 ADDED 07/01/2024

SHEET 1 OF 3

Texas Department of Transportation — Design Division Standard

PEDESTRIAN HANDRAIL DETAILS

PRD-13

FILE: prd13.dgn	DN: TxDOT	CK: AM	DW: JTR	CK: CGL
©TxDOT Decmeber 2006	CONT	SECT	JOB	HIGHWAY
REVISIONS REVISED MAY, 2013 (VP)	1068	01	214	I30
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	FTW	TARRANT		839A

DATE: 6/28/2024 $TIME$
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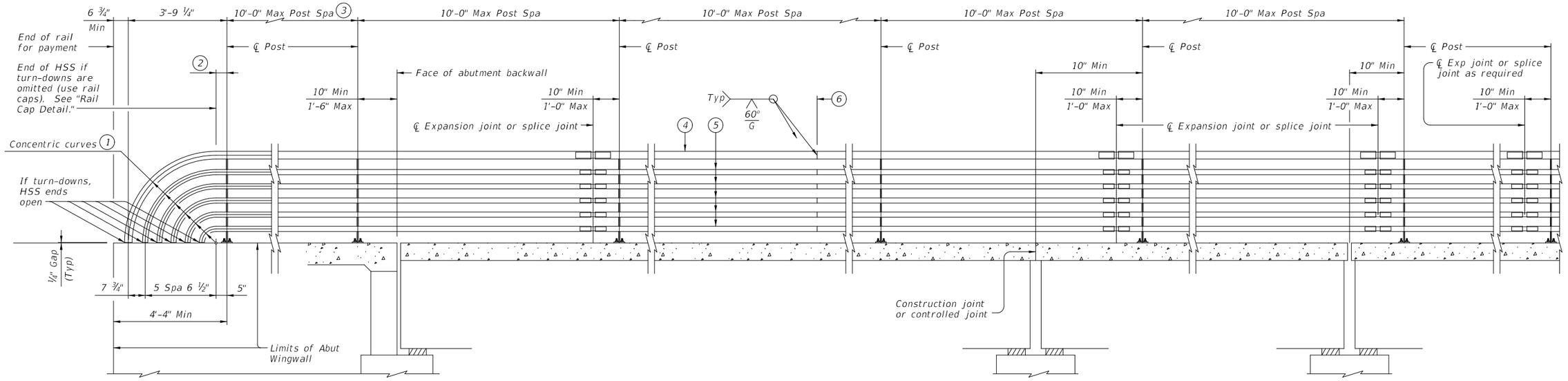
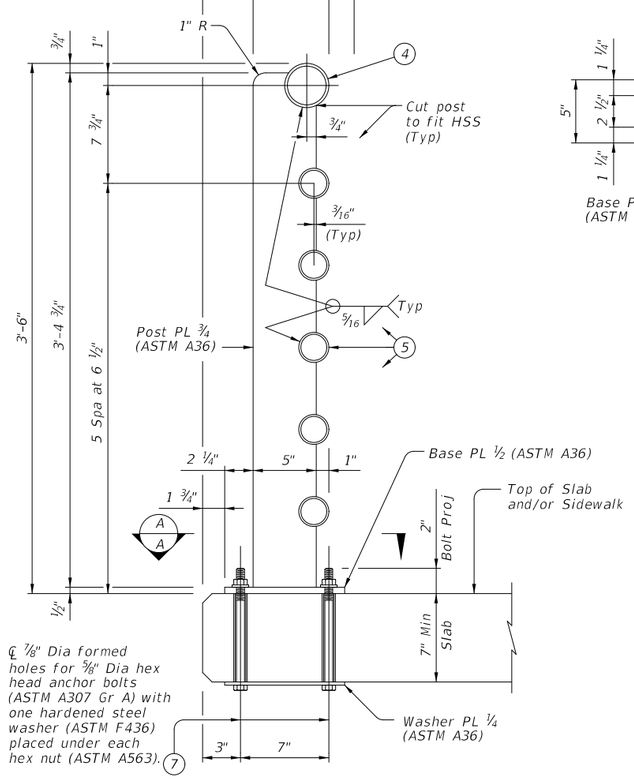


AT ABUTMENTS

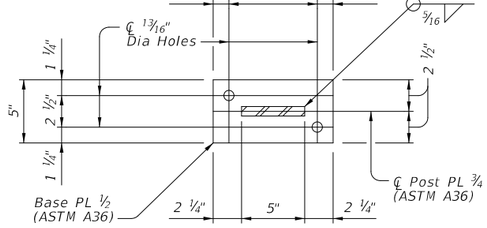
AT BENTS WITHOUT SLAB EXP JOINTS

AT BENTS WITH SLAB EXP JOINTS

ROADWAY ELEVATION OF RAIL

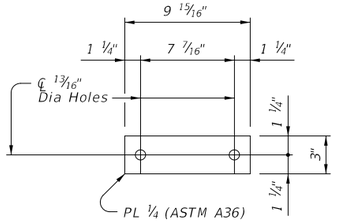


ON BRIDGE SLAB

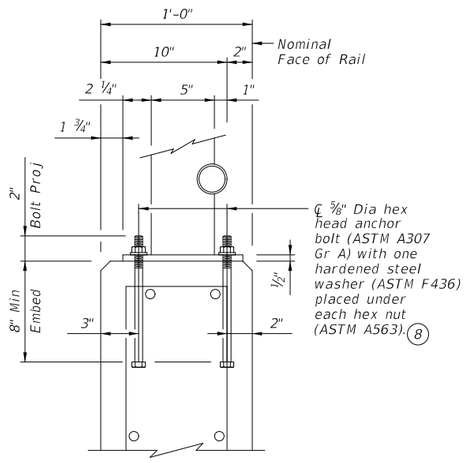


SECTION A-A

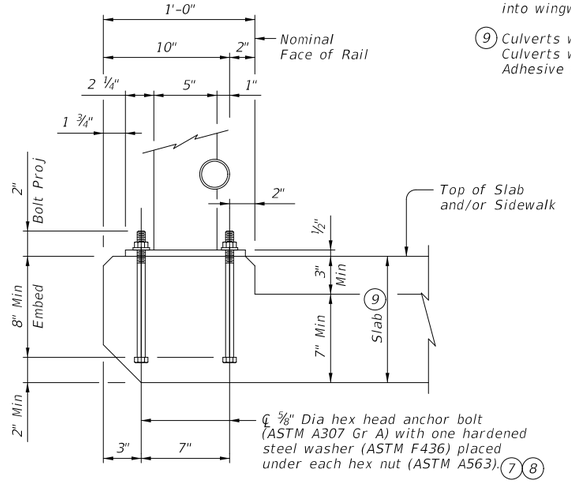
Showing base plate detail.



WASHER PLATE DETAIL



ON ABUTMENT WINGWALLS OR CIP RETAINING WALLS



ON CULVERTS WITH OR WITHOUT CURBS

Used with 1'-0" Min thick parallel wings on culverts.

SECTIONS THRU RAIL

(1) Portion of railing with turn-downs to be used or omitted as indicated on Bridge Layout.

(2) 10" Min ~ 1'-6" Max if turn-downs are omitted.

(3) Min of 2 posts required on wingwall.

(4) HSS 3.500 x 0.216 (Rail Member)

(5) HSS 2.375 x 0.154 (Rail Member)

(6) One shop splice per panel is permitted (with minimum 85 percent penetration). The weld may be square groove or single V groove. Grind smooth.

(7) At Contractor's option, adhesive anchors may be used. Adhesive anchors must be 5/8" Dia ASTM A307 Grade A fully threaded rods. Minimum adhesive anchor embedment depth is 5" into slabs or culverts without curbs. See "Material Notes" for adhesive anchor requirements.

(8) At Contractor's option, adhesive anchors may be used. Adhesive anchors must be 5/8" Dia ASTM A307 Grade A fully threaded rods. Minimum adhesive anchor embedment depth is 7" into wingwalls or culverts with curbs. See "Material Notes" for adhesive anchor requirements.

(9) Culverts without curbs for cast-in-place anchor bolts require a 10" Min slab thickness. Culverts with curbs for cast-in-place anchor bolts require a curb plus slab thickness of 10" Min. Adhesive anchors may be used with a 7" Min slab thickness or culverts with curbs.

SHEET 1 OF 2

Texas Department of Transportation

Bridge Division Standard

PEDESTRIAN RAIL

TYPE PR11

FILE:	DN: TAR	CK: TBE	DW: JTR	CK: TAR
©TxDOT September 2019	CONT	SECT	JOB	HIGHWAY
REVISIONS	1068	01	214	I30
	DIST	COUNTY		SHEET NO.
	FTW	TARRANT		839D

2 ADDED 07/01/2024

DATE: 6/28/2024 $TIME$
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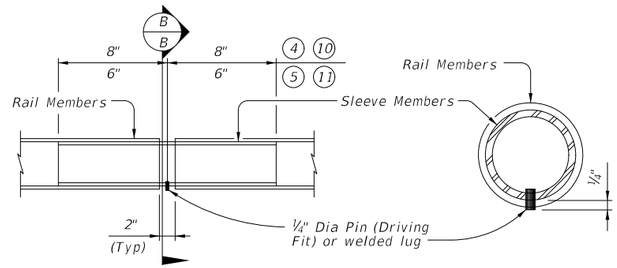
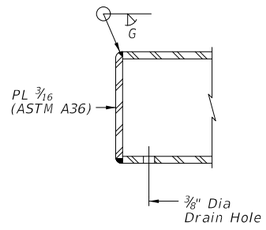
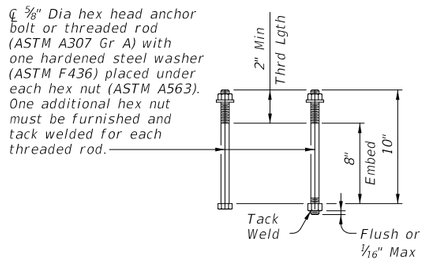


AT SPLICES OR EXP JTS SECTION B-B

PIPE SPLICE DETAIL



RAIL CAP DETAIL



CAST-IN-PLACE & FORMED HOLE ANCHOR BOLT OPTIONS

(4) HSS 3.500 x 0.216 (Rail Member)
(5) HSS 2.375 x 0.154 (Rail Member)
(10) HSS 2.875 x 0.203 (Sleeve Member)
(11) HSS 1.900 x 0.145 (Sleeve Member)

CONSTRUCTION NOTES:

Panel lengths of railing must be attached to a minimum of three posts except at abutment wingwalls.

At the Contractor's option anchor bolts may be an adhesive anchorage system. See "Material Notes."

Test adhesive anchors in accordance with Item 450.3.3, "Tests". Test 3 anchors per 100 anchors installed. Perform corrective measures to provide adequate capacity if any of the tests do not meet the required test load. Repair damage from testing as directed.

Face of rail and posts must be vertical transversely unless otherwise approved. Posts must be perpendicular to adjacent roadway grade. Use Type VIII epoxy mortar under post base plates if gaps larger than 1/16" exist.

For curved railing applications, fabricate the HSS rail to the radius when the radius is 600' or less. Submit shop drawings for approval when tubes are required to be fabricated to a radius. Shop drawings must be submitted to the Engineer for approval.

Round or chamfer all exposed edges of steel components 1/16" by grinding prior to galvanizing.

MATERIAL NOTES:

Provide ASTM A500 Gr B, A1085 or A53 Gr B for all HSS.

Galvanize all metal components of steel rail system. Apply additional coatings when shown elsewhere on the plans. When plans require paint over galvanizing, follow the requirements for painting galvanized steel in Item 445, "Galvanizing" and when field painting, Item 446, "Field Cleaning and Painting Steel." Sleeve members and anchor bolts must receive galvanization prior to installation and only field paint after installation unless directed otherwise by Engineer.

Anchor bolts must be ⅝" Dia ASTM A307 Gr A with one hardened steel washer (ASTM F436) placed under each hex nut or ASTM A307 Gr A threaded rods with one tack welded hex nut each and with one hex nut with one hardened steel washer (ASTM F436) each. Nuts must conform to ASTM A563 requirements.

Optional adhesive anchorage system must be ⅝" Dia ASTM A307 Gr A fully threaded rods with one hex nut and one hardened steel washer (ASTM F436). Nuts must conform to ASTM A563 requirements. Embed fully threaded rods into slab, wingwalls, or culvert curbs using a Type III, Class C, D, E, or F anchor adhesive. Anchor adhesive chosen must be able to achieve a nominal bond strength in tension, Na, of a single anchor of 10 kips (edge distance must be accounted for). Submit signed and sealed calculations or the manufacturer's published literature showing the proposed anchor adhesive's ability to develop this load to the Engineer for approval prior to use. Anchor installation, including hole size, drilling, and clean out, must be in accordance with Item 450, "Railing".

GENERAL NOTES:

Designed according to AASHTO LRFD Specifications.

Do not use this railing on bridges with expansion joints providing more than 5" movement.

Rail anchorage details shown on this standard may require modification for select structure types. See appropriate details elsewhere in plans for these modifications.

For all rails, submit erection drawings showing section lengths, splice locations, rail post spacing and anchor bolt setting for approval.

Average weight of railing is 30 plf.

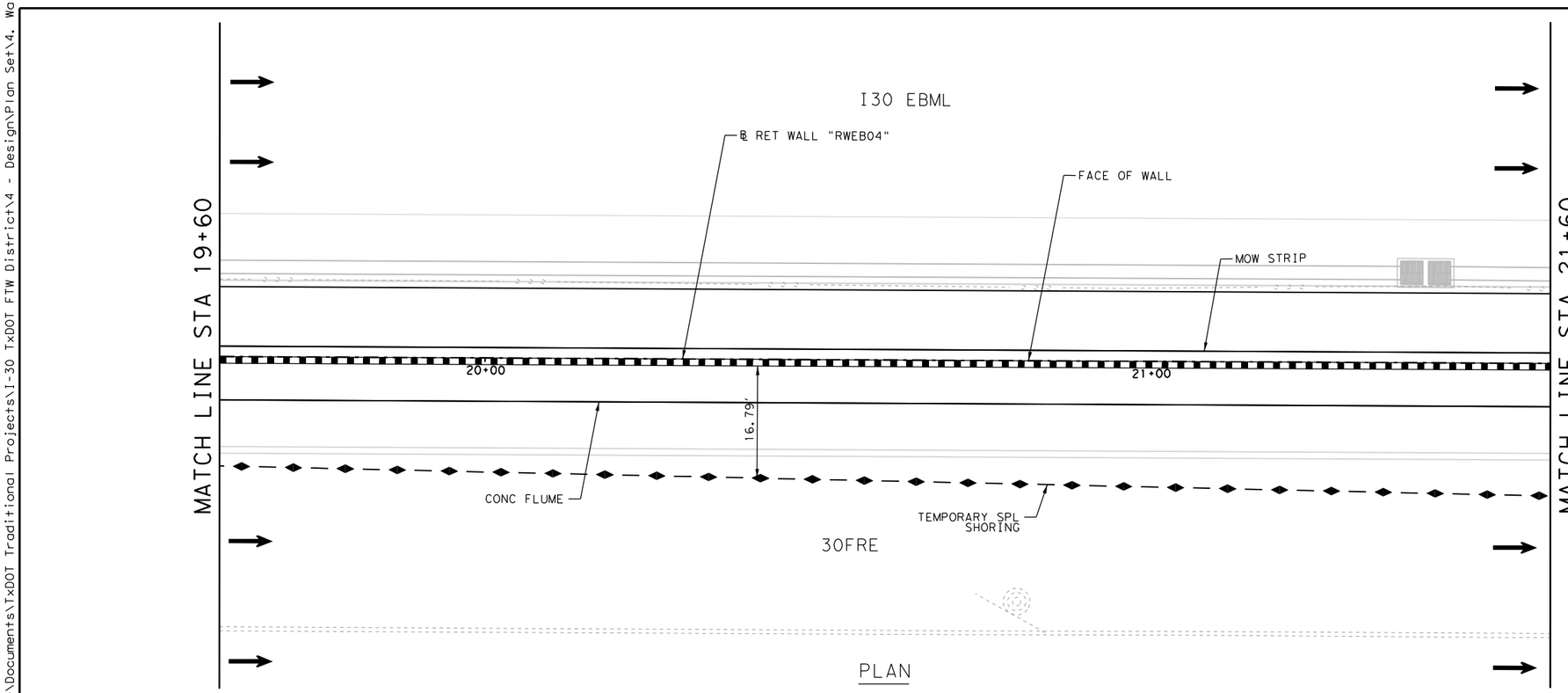
2 ADDED 07/01/2024

Texas Department of Transportation | Bridge Division Standard

PEDESTRIAN RAIL

TYPE PR11

FILE:	DN: TAR	CK: TBE	DW: JTR	CK: TAR
©TxDOT September 2019	CONT	SECT	JOB	HIGHWAY
REVISIONS	1068	01	214	I30
	DIST	COUNTY		SHEET NO.
	FTW	TARRANT		839E



PLAN

LEGEND:

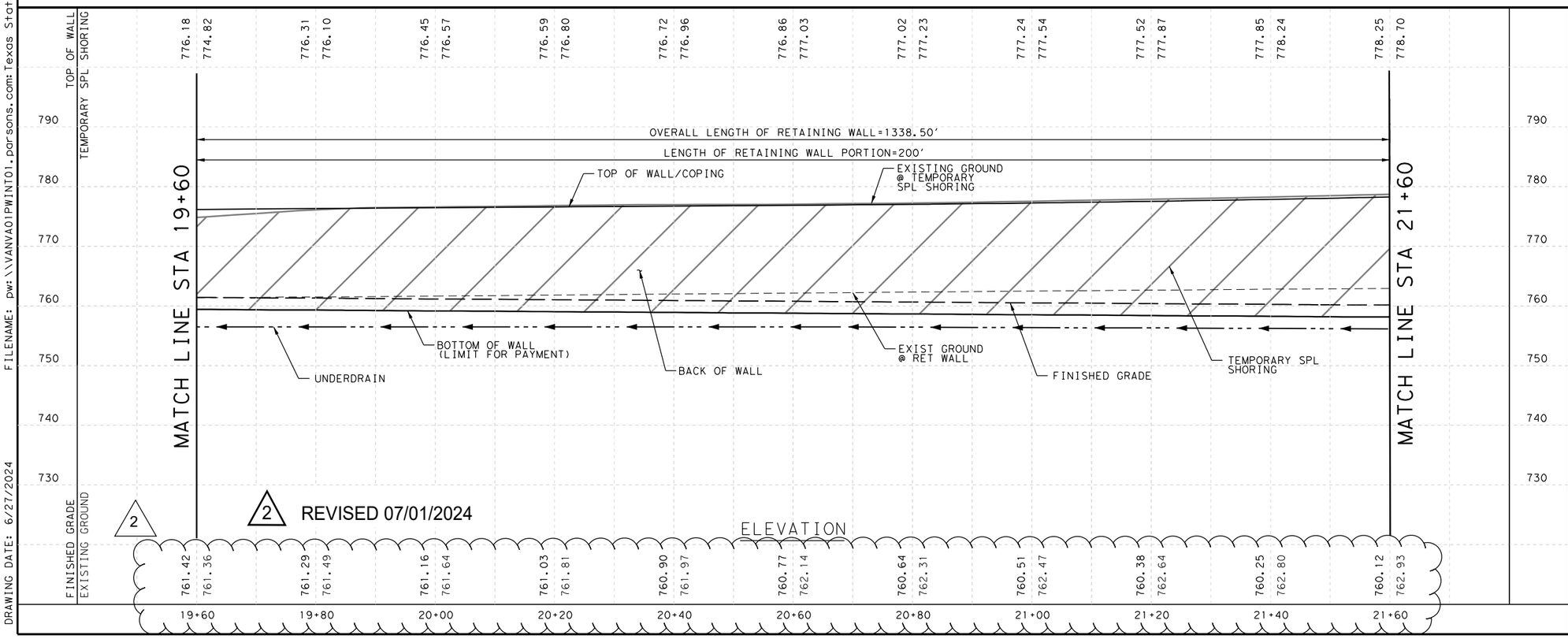
- BORING LOCATION
- RETAINING WALL
- TRAFFIC FLOW
- TEMPORARY SPL SHORING
- TEMPORARY SPL SHORING

0' 10' 20'

SCALE IN FEET

NOTES:

1. SEE ROADWAY PLAN AND PROFILE, BRIDGE DETAILS, RETAINING WALL TYPICAL SECTION AND MISC. DETAILS, DRAINAGE PLAN AND LOGS FOR ADDITIONAL INFORMATION.
2. ALL STATION AND OFSET INFORMATION IS BASED ON ℄ WALL UNLESS NOTED OTHERWISE.
3. PAYMENT AREA OF RETAINING WALL IS MEASURED BETWEEN THE TOP OF WALL AND 2' BELOW THE FINISHED GRADE OR EXISTING GROUND, WHICHEVER IS LOWER.
4. FOR ADDITIONAL DETAILS NOT SHOWN SEE TXDOT STANDARD DRAWINGS: RW(EM), RW(TRF), RW(BTR), RW(MSE), RW(MSE)DD.
5. UTILITIES SHOWN ARE APPROXIMATE AND ARE INTENDED FOR GENERAL INFORMATION ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT ALL UTILITY OWNERS FOR ACTUAL LOCATIONS.
6. CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE AWAY FROM WALL AT ALL TIMES DURING CONSTRUCTION AND POST CONSTRUCTION.
7. GEOTECH RECOMMENDATIONS AND DESIGN PARAMETERS ARE BASED ON SOIL CONDITIONS AT THE TIME OF BORING. REFER TO GEOTECHNICAL BORING LOG LOCATION PLANS AND ELEVATION DRAWING FOR ADDITIONAL INFORMATION.



ELEVATION

2 REVISED 07/01/2024

STATE OF TEXAS
LIZARDO CEBALLOS
115555
LICENSED PROFESSIONAL ENGINEER

6/27/2024

DEC ENGINEERING EXCELLENCE
ENGINEERING CORPORATION
T.B.P.E. FIRM REGISTRATION # F-392
415 EMBASSY OAKS,SUITE 102 SAN ANTONIO, TEXAS 78216 (210) 249-2280

Texas Department of Transportation
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I. S. ENGINEERS, LLC
7670 WOODWAY DRIVE, SUITE 320
HOUSTON, TEXAS 77063
TBPE REG. # F-11657

I-30

RETAINING WALL LAYOUT

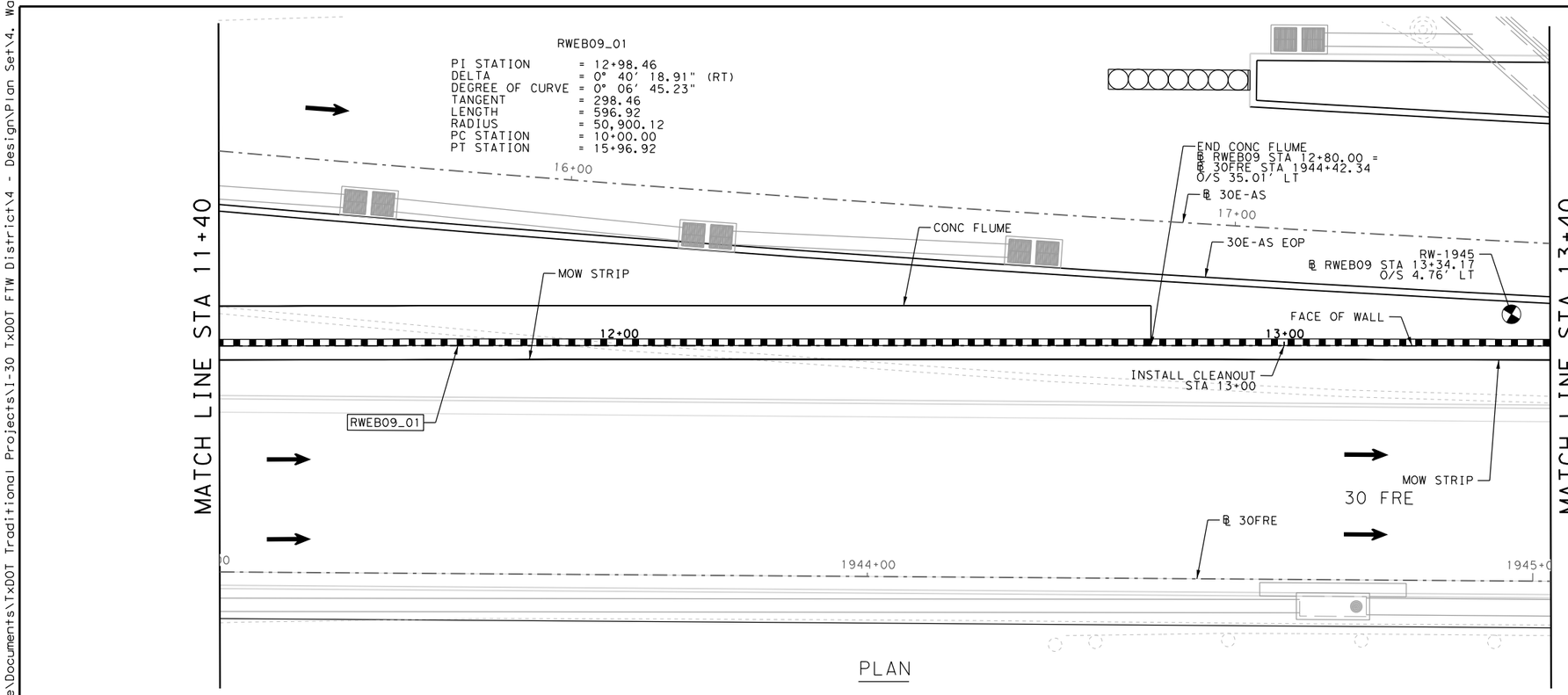
RWEB04

SCALE: 1"=20' SHEET 6 OF 7

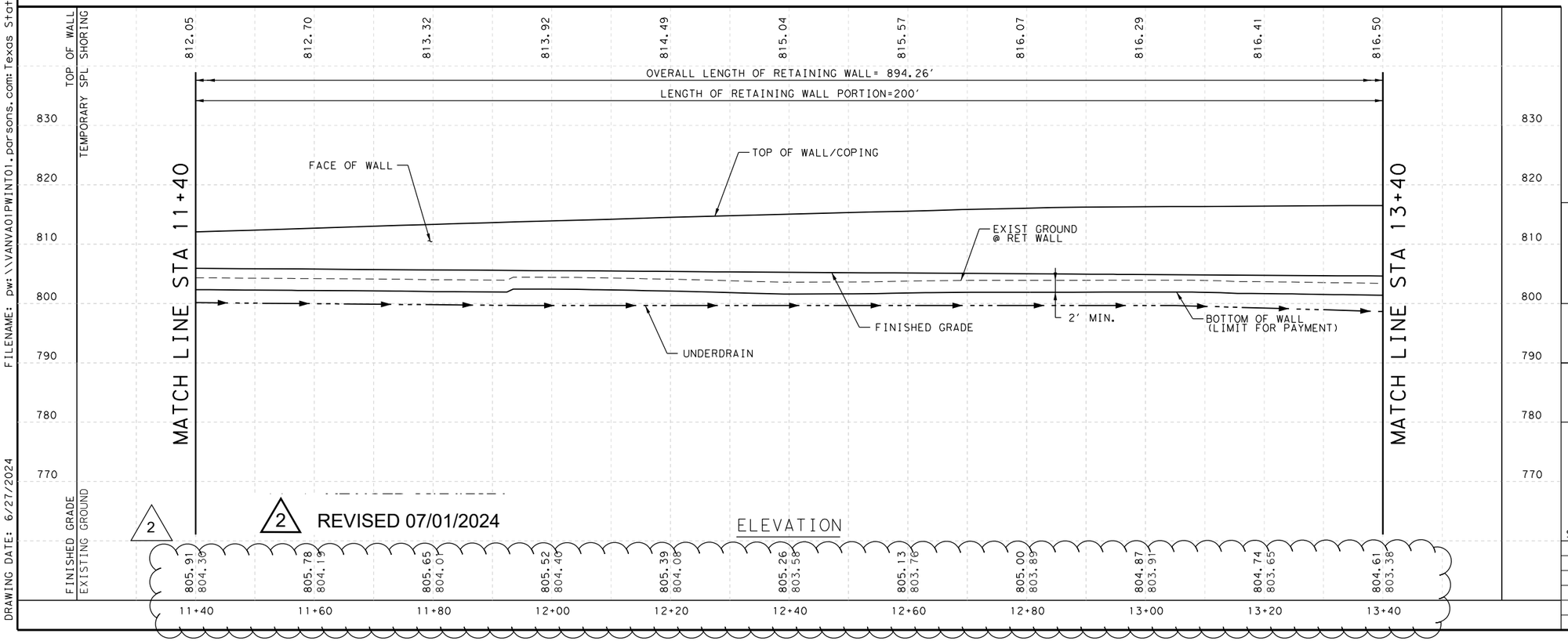
FED.RD. DIV.NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
6	(SEE TITLE SHEET)		I30
STATE	DISTRICT	COUNTY	SHEET NO.
TEXAS	FTW	TARRANT	887
CONTROL	SECTION	JOB	
1068	01	214	

FILENAME: pw:\\VANVA01PWINT01.parsons.com:Texas State\Documents\TxDOT Traditional Projects\I-30 TxDOT FTW District\4 - Design\Plan Set\4. Wall\N

DRAWING DATE: 6/27/2024



PLAN



2 REVISED 07/01/2024

ELEVATION

LEGEND:

- BORING LOCATION
- RETAINING WALL
- TRAFFIC FLOW
- TEMPORARY SPL SHORING
- TEMPORARY SPL SHORING

0' 10' 20'

SCALE IN FEET

NOTES:

1. SEE ROADWAY PLAN AND PROFILE, BRIDGE DETAILS, RETAINING WALL TYPICAL SECTION AND MISC. DETAILS, DRAINAGE PLAN AND LOGS FOR ADDITIONAL INFORMATION.
2. ALL STATION AND OFFSET INFORMATION IS BASED ON ℄ WALL UNLESS NOTED OTHERWISE.
3. PAYMENT AREA OF RETAINING WALL IS MEASURED BETWEEN THE TOP OF WALL AND 2' BELOW THE FINISHED GRADE OR EXISTING GROUND, WHICHEVER IS LOWER.
4. FOR ADDITIONAL DETAILS NOT SHOWN SEE TXDOT STANDARD DRAWINGS: RW(EM), RW(TRF), RW(BTR), RW(MSE), RW(MSE)DD.
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7. GEOTECH RECOMMENDATIONS AND DESIGN PARAMETERS ARE BASED ON SOIL CONDITIONS AT THE TIME OF BORING. REFER TO GEOTECHNICAL BORING LOG LOCATION PLANS AND ELEVATION DRAWING FOR ADDITIONAL INFORMATION.

STATE OF TEXAS
LIZARDO CEBALLOS
115555
LICENSED PROFESSIONAL ENGINEER

Lizardo Ceballos P.E.

6/27/2024

DEC ENGINEERING EXCELLENCE
ENGINEERING CORPORATION
T.B.P.E. FIRM REGISTRATION # F-392
415 EMBASSY OAKS,SUITE 102 SAN ANTONIO, TEXAS 78216 (210) 249-2280

I. S. ENGINEERS, LLC
7670 WOODWAY DRIVE, SUITE 320
HOUSTON, TEXAS 77063
TBPE REG. # F-11657

I-30

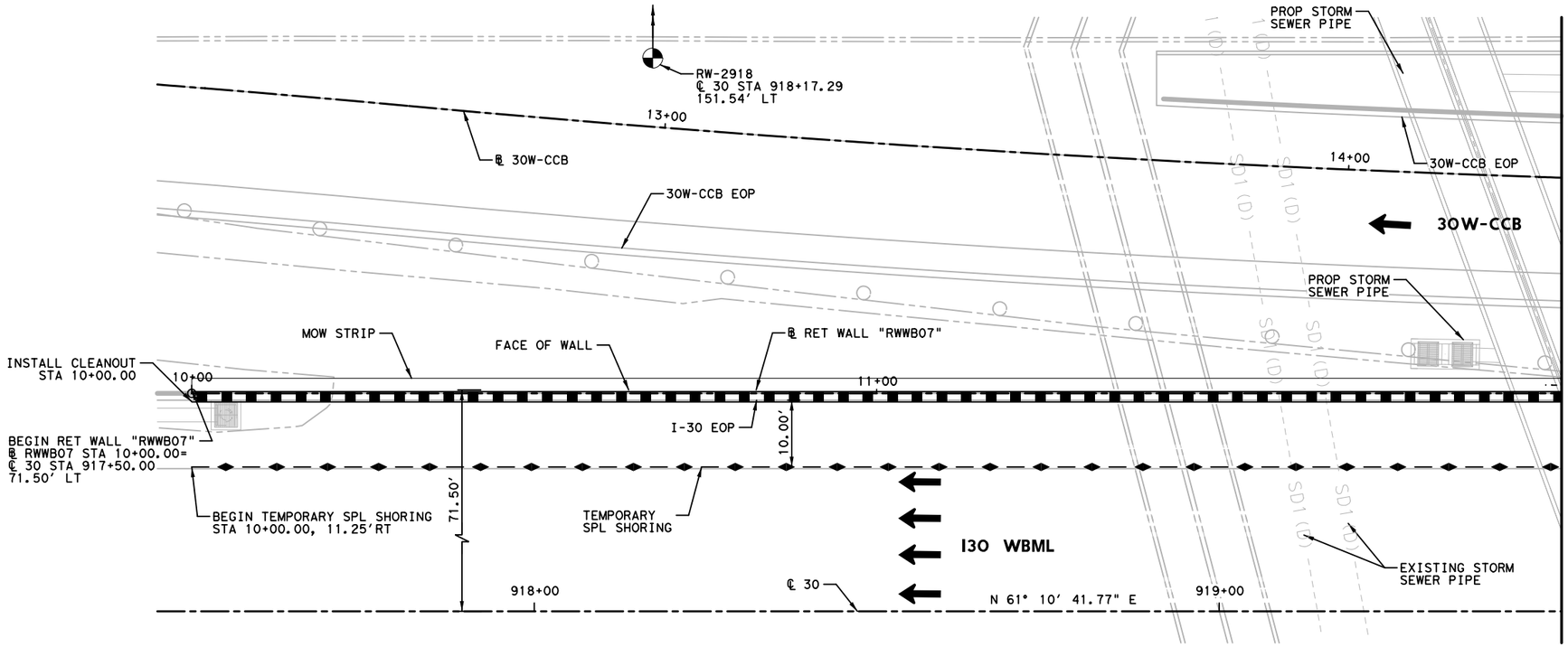
RETAINING WALL LAYOUT

RWEB09

SCALE: 1"=20' SHEET 2 OF 5

FED.RD. DIV.NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
6	(SEE TITLE SHEET)		I30
STATE	DISTRICT	COUNTY	SHEET NO.
TEXAS	FTW	TARRANT	915
CONTROL	SECTION	JOB	
1068	01	214	

FILENAME: pw:\\VANVA01PWINT01.parsons.com:Texas State\Documents\TxDOT Traditional Projects\I-30 TxDOT FTW District\4 - Design\Plan Set\4. Wall\RW
DRAWING DATE: 6/27/2024



PLAN

LEGEND:

- BORING LOCATION
- RETAINING WALL
- TRAFFIC FLOW
- TEMPORARY SPL SHORING
- TEMPORARY SPL SHORING

0′ 10′ 20′

SCALE IN FEET

NOTES:

1. SEE ROADWAY PLAN AND PROFILE, BRIDGE DETAILS, RETAINING WALL TYPICAL SECTION AND MISC. DETAILS, DRAINAGE PLAN AND LOGS FOR ADDITIONAL INFORMATION.
2. ALL STATION AND OFFSET INFORMATION IS BASED ON ℄ WALL UNLESS NOTED OTHERWISE.
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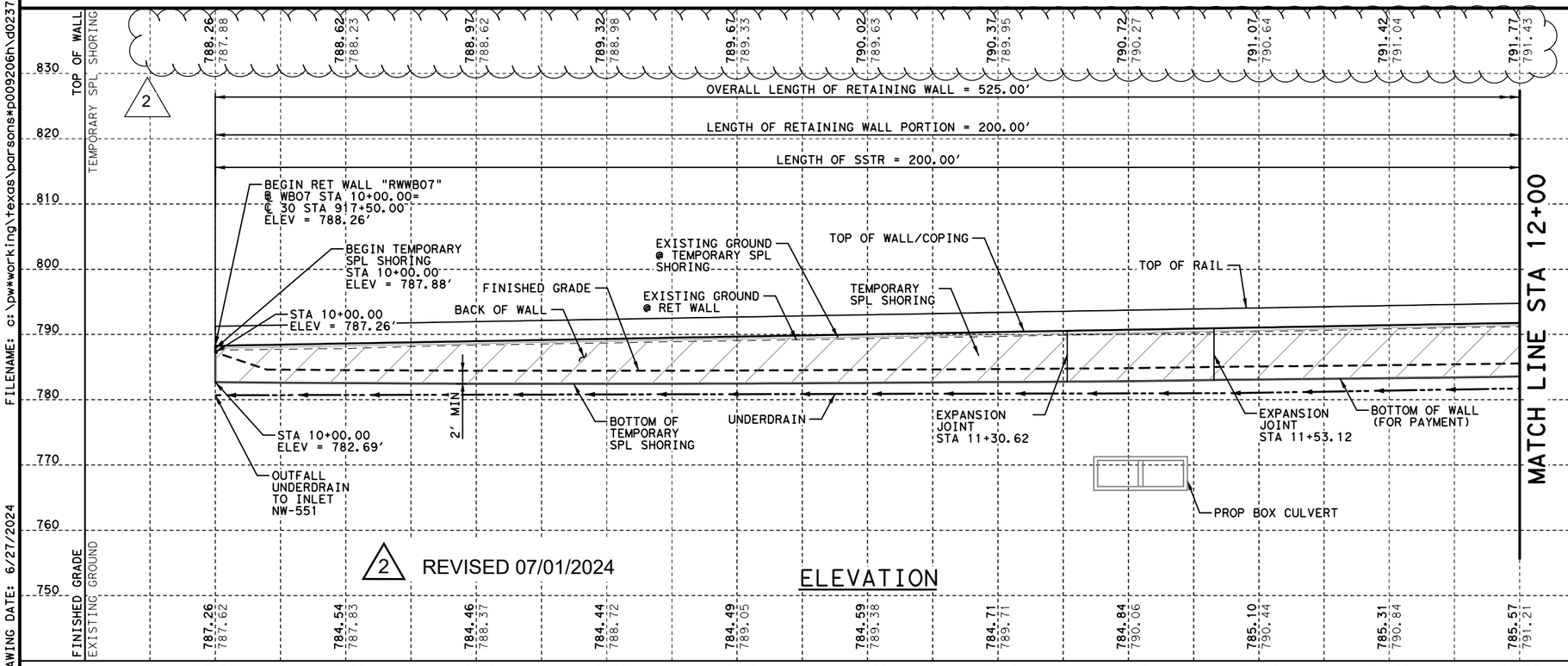
8. FOR UNDERDRAIN, CONTRACTOR TO PROVIDE MINIMUM 0.3% SLOPE.



2 REVISED 07/01/2024

ELEVATION

STATE OF TEXAS
SHAYAN SHARIFINEJAD
132306
LICENSED
PROFESSIONAL ENGINEER
6/27/2024

I. S. ENGINEERS, LLC
7670 WOODWAY DRIVE, SUITE 320
HOUSTON, TEXAS 77063
TBPE REG. # F-11657

I-30
RETAINING WALL LAYOUT

RWWB07

SCALE: 1"=20′ SHEET 1 OF 3

FED.RD. DIV.NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
6	(SEE TITLE SHEET)		I30
STATE	DISTRICT	COUNTY	SHEET NO.
TEXAS	FTW	TARRANT	
CONTROL	SECTION	JOB	957
1068	01	214	

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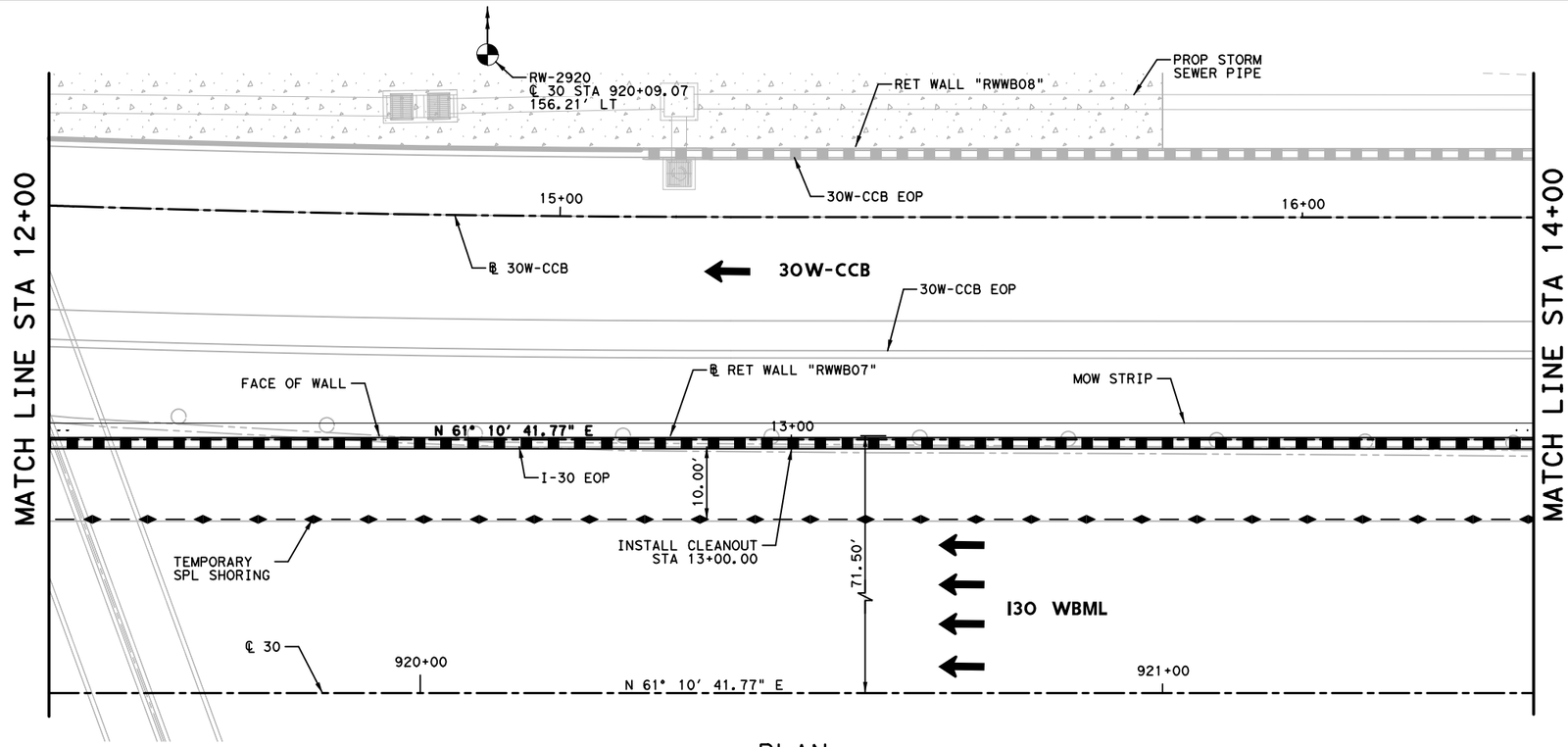
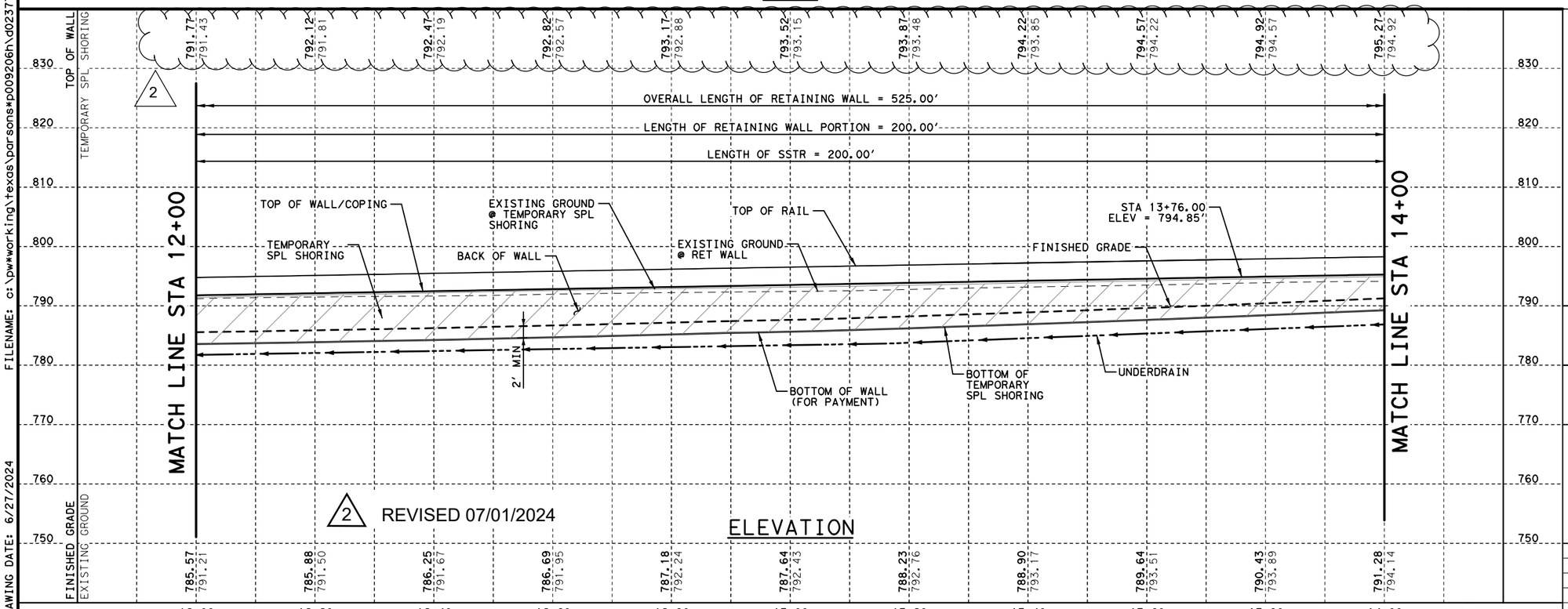


PLAN



2 REVISED 07/01/2024

ELEVATION

LEGEND:

- BORING LOCATION
- RETAINING WALL
- TRAFFIC FLOW
- TEMPORARY SPL SHORING
- TEMPORARY SPL SHORING

0' 10' 20'

SCALE IN FEET

NOTES:

1. SEE ROADWAY PLAN AND PROFILE, BRIDGE DETAILS, RETAINING WALL TYPICAL SECTION AND MISC. DETAILS, DRAINAGE PLAN AND LOGS FOR ADDITIONAL INFORMATION.
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8. FOR UNDERDRAIN, CONTRACTOR TO PROVIDE MINIMUM 0.3% SLOPE.

STATE OF TEXAS
SHAYAN SHARIFINEJAD
132306
LICENSED
PROFESSIONAL ENGINEER
6/27/2024

Texas Department of Transportation
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I. S. ENGINEERS, LLC
7670 WOODWAY DRIVE, SUITE 320
HOUSTON, TEXAS 77063
TBPE REG. # F-11657

I-30
RETAINING WALL LAYOUT

RWWB07

SCALE: 1"=20' SHEET 2 OF 3

FED.RD. DIV.NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
6	(SEE TITLE SHEET)		I30
STATE	DISTRICT	COUNTY	SHEET NO.
TEXAS	FTW	TARRANT	958
CONTROL	SECTION	JOB	
1068	01	214	

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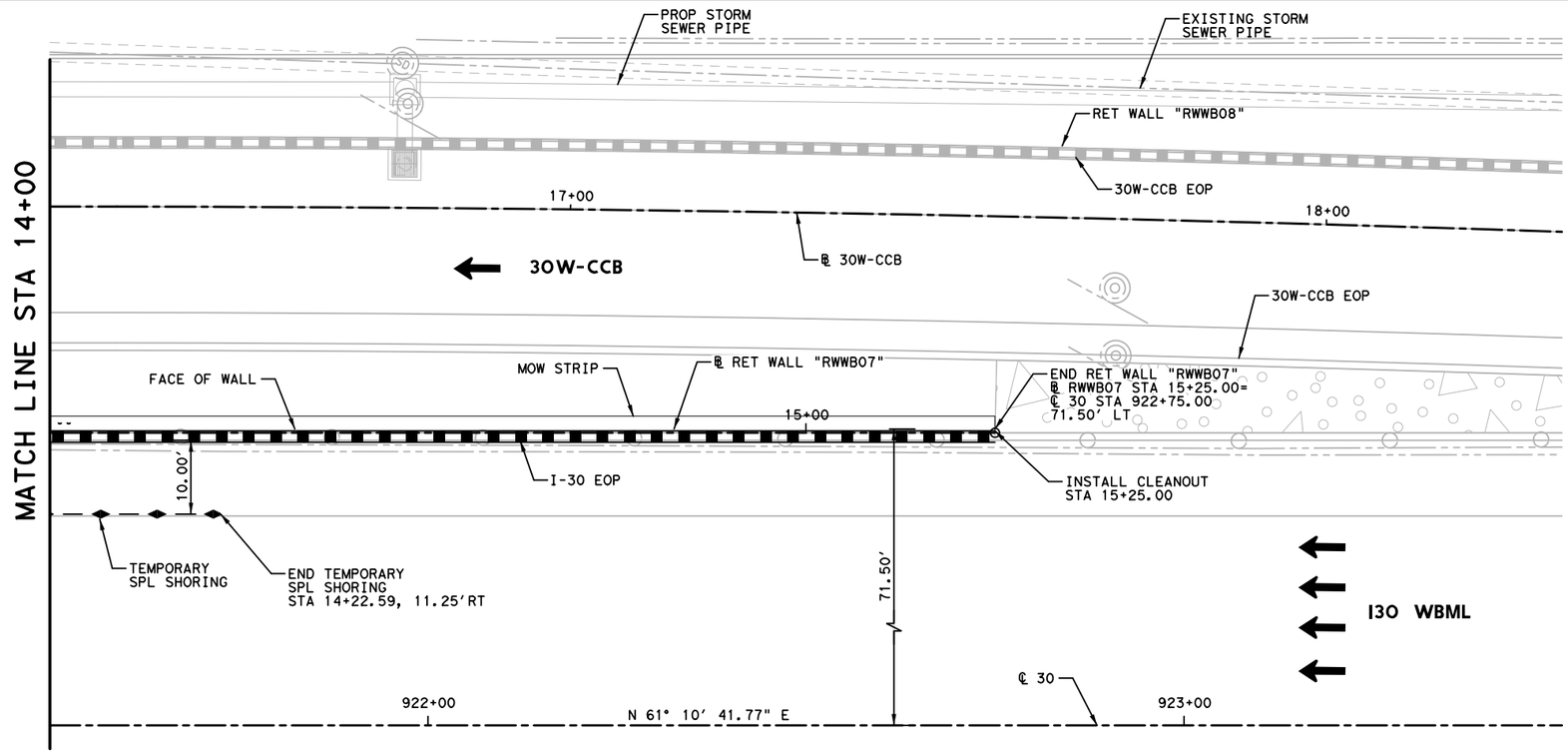
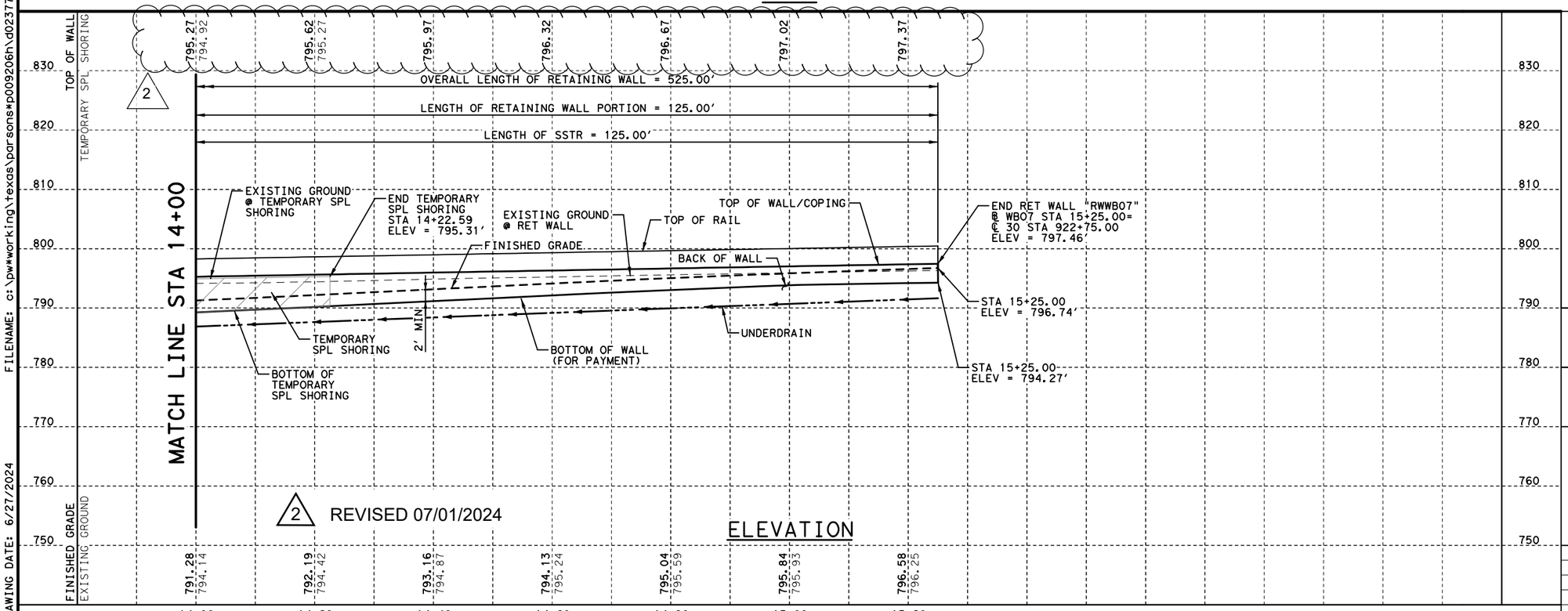


PLAN



ELEVATION

2 REVISED 07/01/2024

LEGEND:

- BORING LOCATION
- RETAINING WALL
- TRAFFIC FLOW
- TEMPORARY SPL SHORING
- TEMPORARY SPL SHORING

0' 10' 20'
SCALE IN FEET

NOTES:

1. SEE ROADWAY PLAN AND PROFILE, BRIDGE DETAILS, RETAINING WALL TYPICAL SECTION AND MISC. DETAILS, DRAINAGE PLAN AND LOGS FOR ADDITIONAL INFORMATION.
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8. FOR UNDERDRAIN, CONTRACTOR TO PROVIDE MINIMUM 0.3% SLOPE.

STATE OF TEXAS
SHAYAN SHARIFINEJAD
132306
LICENSED
PROFESSIONAL ENGINEER
6/27/2024

Texas Department of Transportation

I.S. ENGINEERS, LLC
7670 WOODWAY DRIVE, SUITE 320
HOUSTON, TEXAS 77063
TBPE REG. # F-11657

I-30
RETAINING WALL LAYOUT

RWWB07

SCALE: 1"=20' SHEET 3 OF 3

FED.RD. DIV.NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
6	(SEE TITLE SHEET)		I30
STATE	DISTRICT	COUNTY	SHEET NO.
TEXAS	FTW	TARRANT	
CONTROL	SECTION	JOB	959
1068	01	214	

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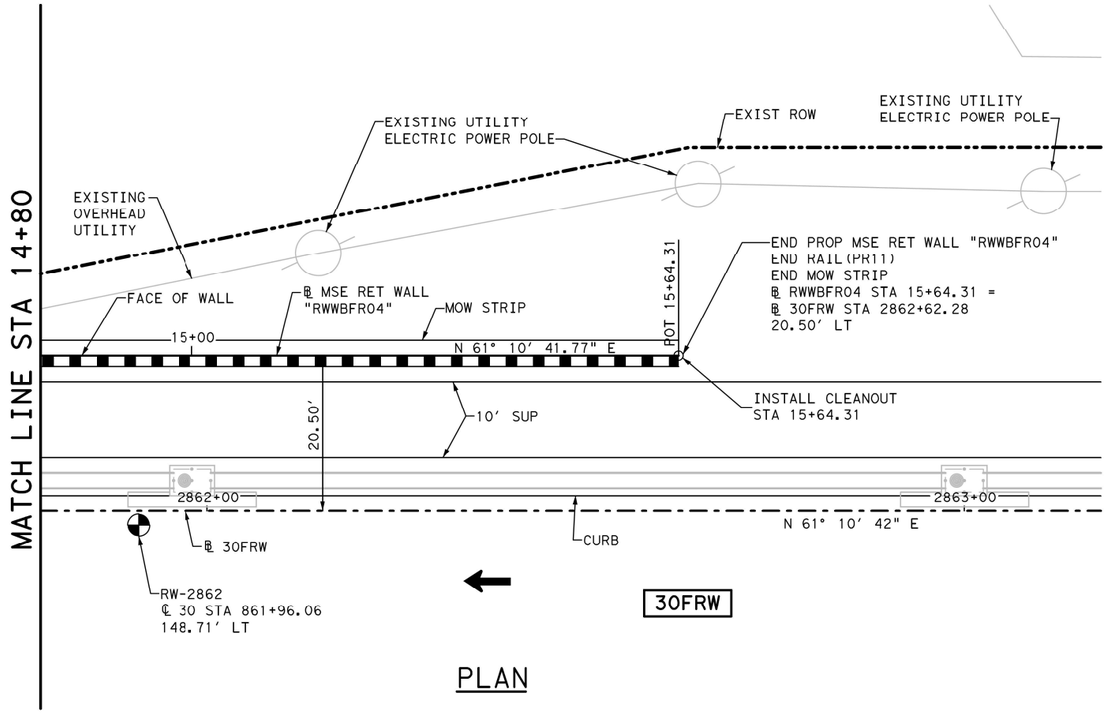
DRAWING DATE: 6/27/2024



PLAN

LEGEND:

- BORING LOCATION
- RETAINING WALL
- TRAFFIC FLOW

0′ 10′ 20′

SCALE IN FEET

NOTES:

1. SEE ROADWAY PLAN AND PROFILE, BRIDGE DETAILS, RETAINING WALL TYPICAL SECTION AND MISC. DETAILS, DRAINAGE PLAN AND LOGS FOR ADDITIONAL INFORMATION.
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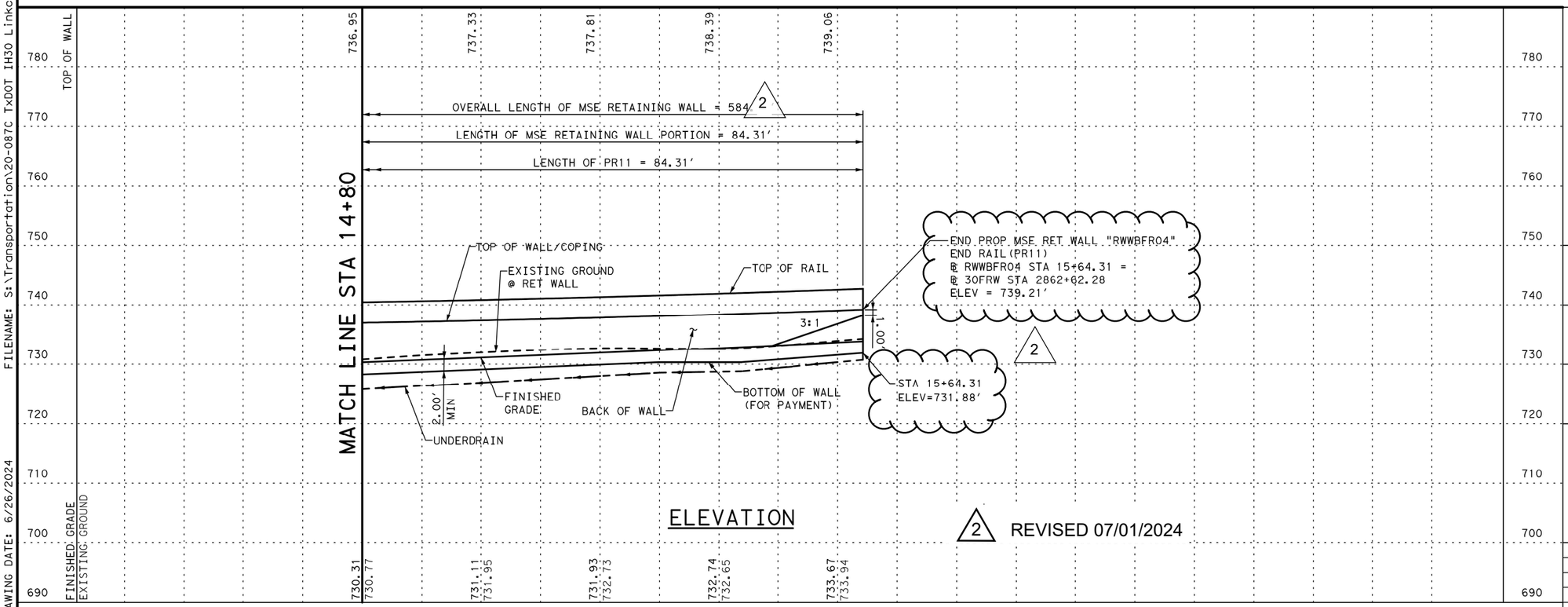
4. FOR ADDITIONAL DETAILS NOT SHOWN SEE TXDOT STANDARD DRAWING: RW (EM), RW(TRF), RW(BTR), RW(MSE), RW(MSE)DD.
5. CONTRACTOR SHALL VERIFY UTILITY LOCATIONS PRIOR TO CONSTRUCTION. ENGINEER SHALL BE NOTIFIED OF ANY CONFLICTS IMMEDIATELY.
6. CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE AWAY FROM WALL AT ALL TIMES DURING CONSTRUCTION AND POST CONSTRUCTION.
7. GEOTECH RECOMMENDATIONS AND DESIGN PARAMETERS ARE BASED ON SOIL CONDITIONS AT THE TIME OF BORING. SEE RW(MSE)DD WALL DESIGN RECOMMENDATIONS AND GEOTECHNICAL BORING LOG LOCATION PLANS AND ELEVATION DRAWING FOR ADDITIONAL INFORMATION.
8. THIS WALL IS SUBJECT TO INUNDATION AND MUST BE DESIGNED CONSIDERING 3 FT OF DRAW DOWN ABOVE THE 100 YEAR WATER SURFACE ELEVATION.
9. TYPE DS BACKFILL IS REQUIRED FOR THIS WALL.
10. UTILITIES SHOWN ARE APPROXIMATE AND ARE INTENDED FOR GENERAL INFORMATION ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT ALL UTILITY OWNERS FOR ACTUAL LOCATIONS.
11. SEE RETAINING WALL UNDERDRAIN DETAILS SHEET.



ELEVATION

2 REVISED 07/01/2024

STATE OF TEXAS
FARREN SCOTT BASSE
95587
LICENSED PROFESSIONAL ENGINEER
Farren Basse P.E.
6/27/2024

I. S. ENGINEERS, LLC
7670 WOODWAY DRIVE, SUITE 320
HOUSTON, TEXAS 77063
TBPE REG. # F-11657

Texas Department of Transportation
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STRUCTURAL ENGINEERING ASSOCIATES
TEXAS REGISTERED ENGINEERING FIRM F-199

I-30

RETAINING WALL LAYOUT

RWWBFR04

SCALE: 1"= 20′ SHEET 4 OF 4

FED.RD. DIV.NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
6	SEE TITLE SHEET		I-30
STATE	DISTRICT	COUNTY	SHEET NO.
TEXAS	FTW	TARRANT	995
CONTROL	SECTION	JOB	
1068	01	214	

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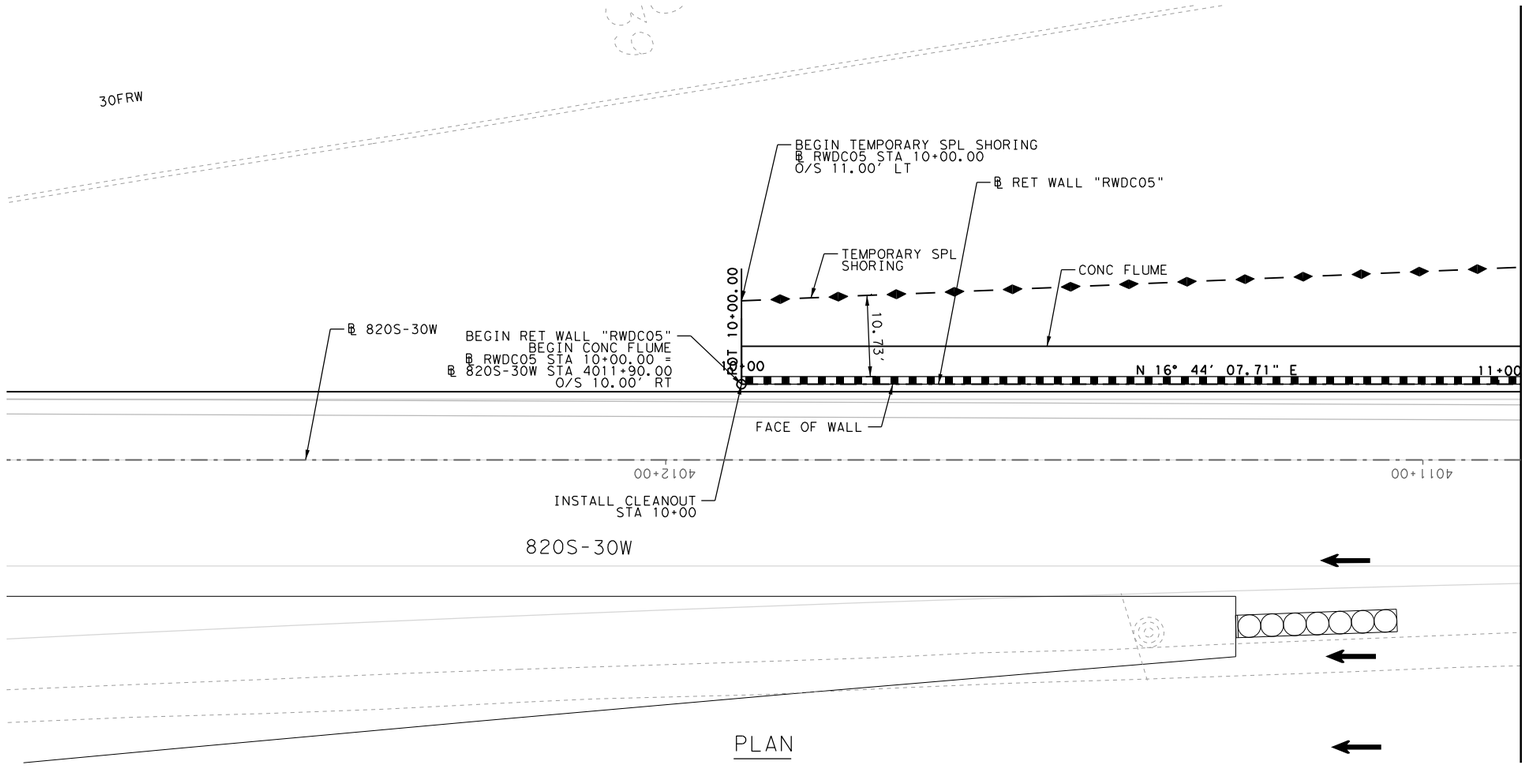
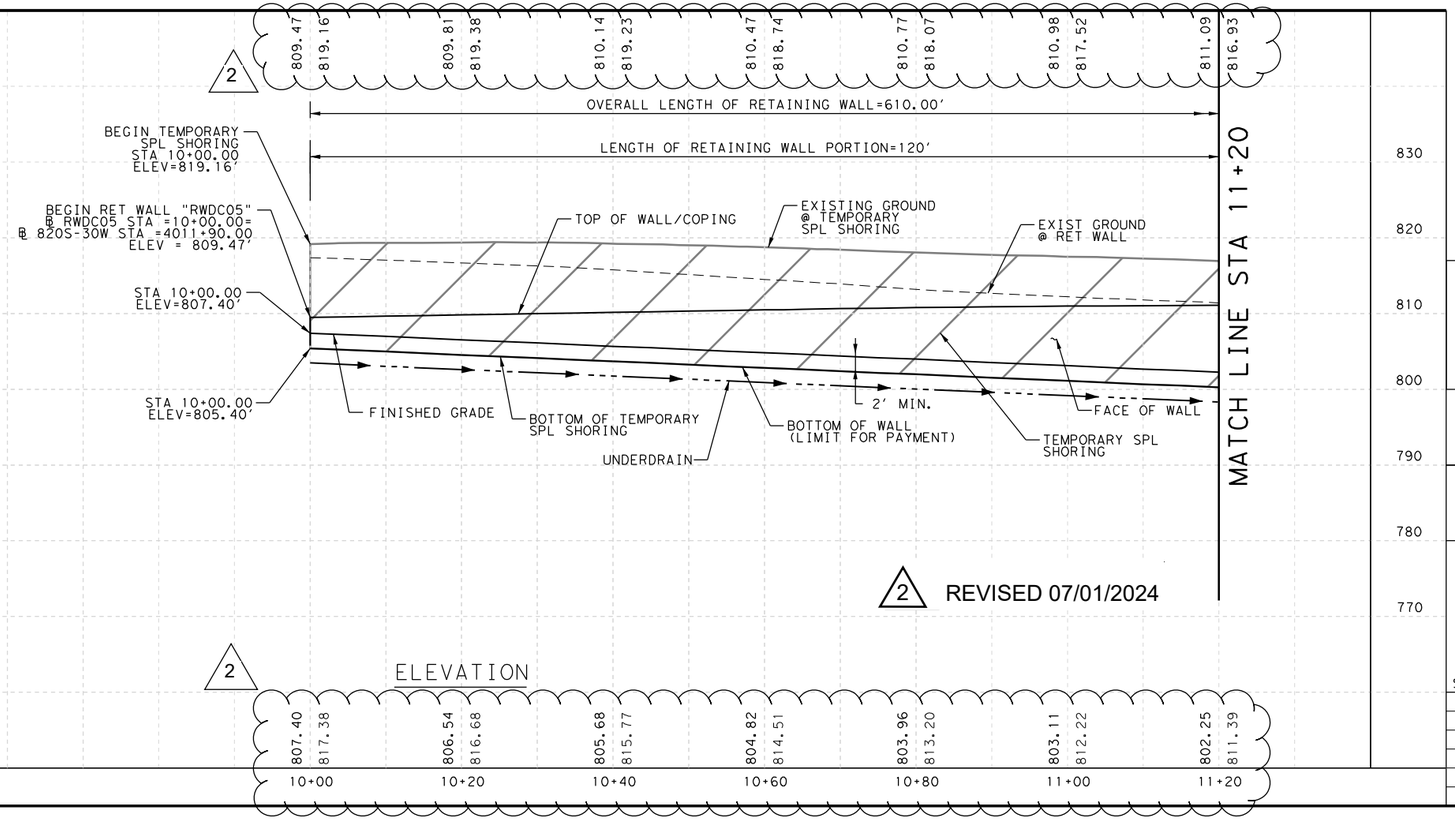


PLAN



ELEVATION

2 REVISED 07/01/2024

LEGEND:

- BORING LOCATION
- RETAINING WALL
- TRAFFIC FLOW
- TEMPORARY SPL SHORING
- TEMPORARY SPL SHORING

0' 10' 20'

SCALE IN FEET

NOTES:

1. SEE ROADWAY PLAN AND PROFILE, BRIDGE DETAILS, RETAINING WALL TYPICAL SECTION AND MISC. DETAILS, DRAINAGE PLAN AND LOGS FOR ADDITIONAL INFORMATION.
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STATE OF TEXAS
LIZARDO CEBALLOS
115555
LICENSED PROFESSIONAL ENGINEER

6/27/2024

DEC ENGINEERING EXCELLENCE
ENGINEERING CORPORATION
T.B.P.E. FIRM REGISTRATION # F-392
415 EMBASSY OAKS,SUITE 102 SAN ANTONIO, TEXAS 78216 (210) 249-2280

I. S. ENGINEERS, LLC
7670 WOODWAY DRIVE, SUITE 320
HOUSTON, TEXAS 77063
TBPE REG. # F-11657

I-30

RETAINING WALL LAYOUT

RWDC05

SCALE: 1"=20' SHEET 1 OF 4

FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
6	(SEE TITLE SHEET)		I30
STATE	DISTRICT	COUNTY	SHEET NO.
TEXAS	FTW	TARRANT	1025
CONTROL	SECTION	JOB	
1068	01	214	

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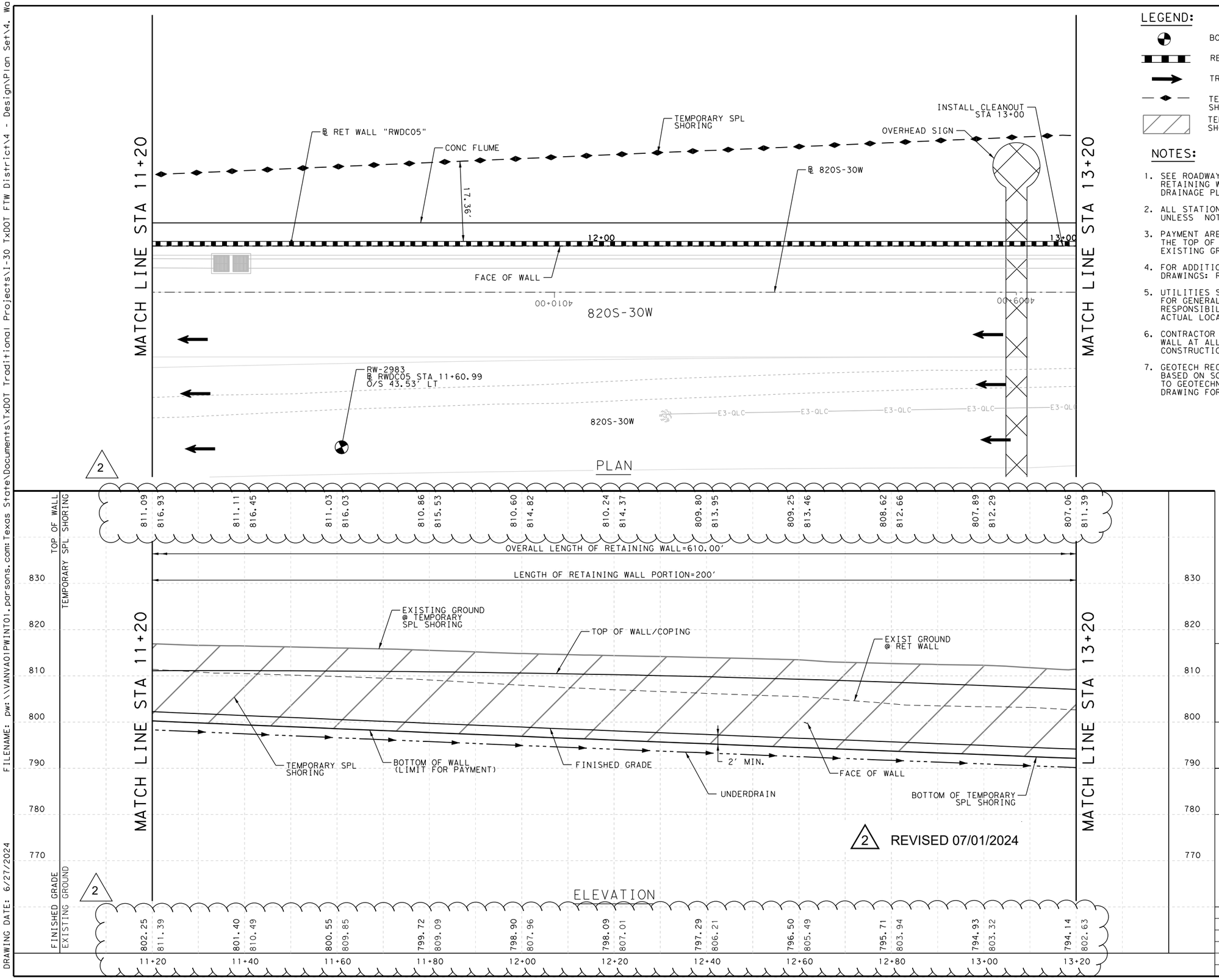
DRAWING DATE: 6/27/2024



LEGEND:

- BORING LOCATION
- RETAINING WALL
- TRAFFIC FLOW
- TEMPORARY SPL SHORING
- TEMPORARY SPL SHORING

0' 10' 20'

SCALE IN FEET

NOTES:

1. SEE ROADWAY PLAN AND PROFILE, BRIDGE DETAILS, RETAINING WALL TYPICAL SECTION AND MISC. DETAILS, DRAINAGE PLAN AND LOGS FOR ADDITIONAL INFORMATION.
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STATE OF TEXAS
LIZARDO CEBALLOS
115555
LICENSED PROFESSIONAL ENGINEER

6/27/2024

DEC ENGINEERING EXCELLENCE
ENGINEERING CORPORATION
T.B.P.E. FIRM REGISTRATION # F-392
415 EMBASSY OAKS,SUITE 102 SAN ANTONIO, TEXAS 78216 (210) 249-2280

I. S. ENGINEERS, LLC
7670 WOODWAY DRIVE, SUITE 320
HOUSTON, TEXAS 77063
TBPE REG. # F-11657

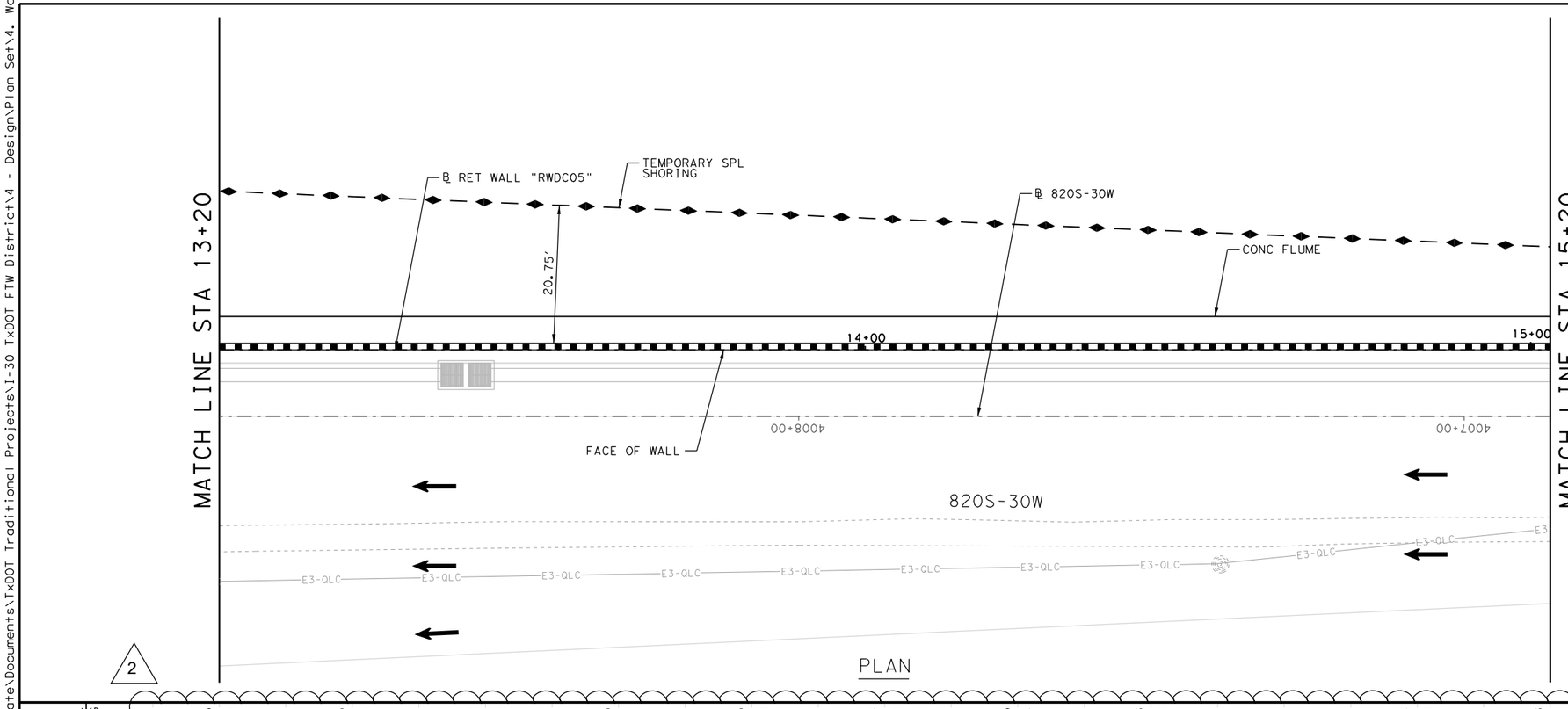
I-30

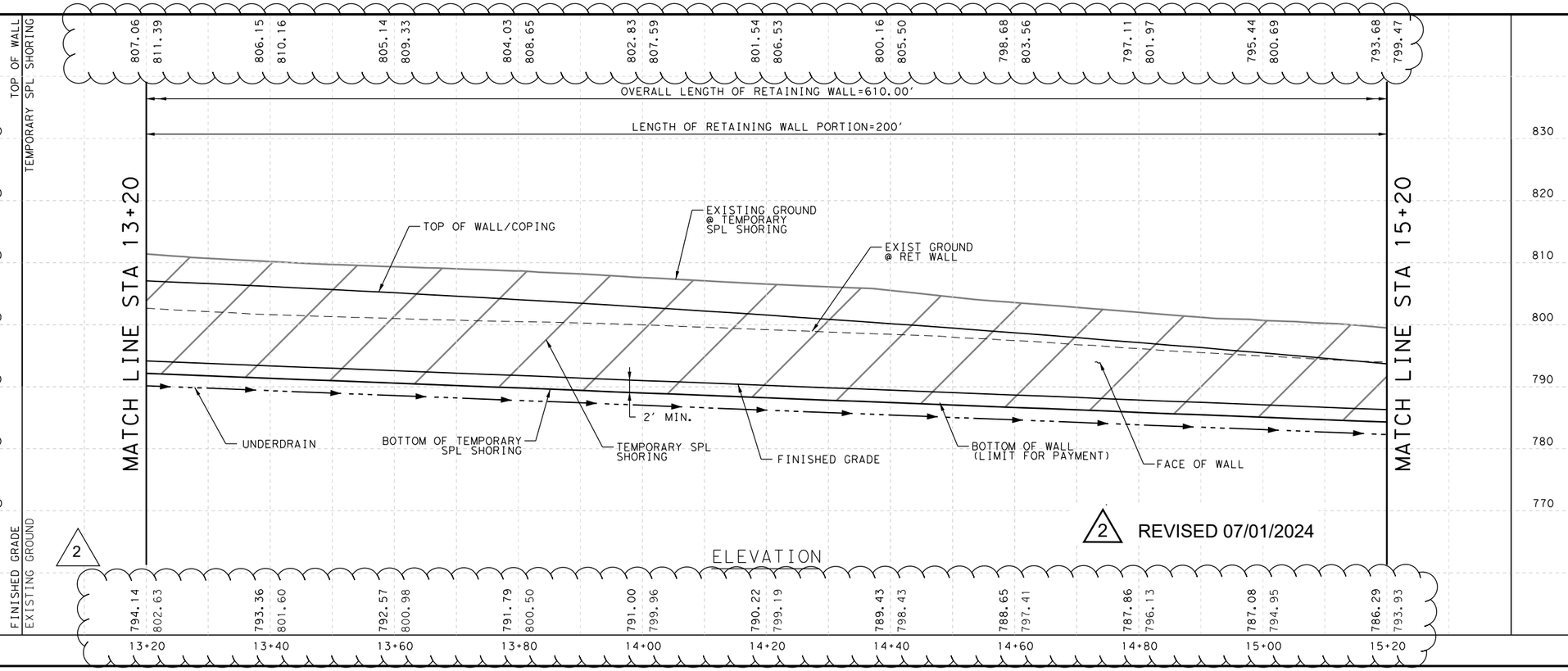
RETAINING WALL LAYOUT

RWDC05

SCALE: 1"=20' SHEET 2 OF 4

FED.RD. DIV.NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
6	(SEE TITLE SHEET)		I30
STATE	DISTRICT	COUNTY	SHEET NO.
TEXAS	FTW	TARRANT	
CONTROL	SECTION	JOB	1026
1068	01	214	





LEGEND:

- BORING LOCATION
- RETAINING WALL
- TRAFFIC FLOW
- TEMPORARY SPL SHORING
- TEMPORARY SPL SHORING

0' 10' 20'

SCALE IN FEET

NOTES:

1. SEE ROADWAY PLAN AND PROFILE, BRIDGE DETAILS, RETAINING WALL TYPICAL SECTION AND MISC. DETAILS, DRAINAGE PLAN AND LOGS FOR ADDITIONAL INFORMATION.
2. ALL STATION AND OFSET INFORMATION IS BASED ON ℄ WALL UNLESS NOTED OTHERWISE.
3. PAYMENT AREA OF RETAINING WALL IS MEASURED BETWEEN THE TOP OF WALL AND 2' BELOW THE FINISHED GRADE OR EXISTING GROUND, WHICHEVER IS LOWER.
4. FOR ADDITIONAL DETAILS NOT SHOWN SEE TXDOT STANDARD DRAWINGS: RW(EM), RW(TRF), RW(BTR), RW(MSE), RW(MSE)DD.
5. UTILITIES SHOWN ARE APPROXIMATE AND ARE INTENDED FOR GENERAL INFORMATION ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT ALL UTILITY OWNERS FOR ACTUAL LOCATIONS.
6. CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE AWAY FROM WALL AT ALL TIMES DURING CONSTRUCTION AND POST CONSTRUCTION.
7. GEOTECH RECOMMENDATIONS AND DESIGN PARAMETERS ARE BASED ON SOIL CONDITIONS AT THE TIME OF BORING. REFER TO GEOTECHNICAL BORING LOG LOCATION PLANS AND ELEVATION DRAWING FOR ADDITIONAL INFORMATION.

2 REVISED 07/01/2024

STATE OF TEXAS
LIZARDO CEBALLOS
115555
LICENSED PROFESSIONAL ENGINEER

Lizardo Ceballos P.E.

6/27/2024

DEC ENGINEERING EXCELLENCE
ENGINEERING CORPORATION
T.B.P.E. FIRM REGISTRATION # F-392
415 EMBASSY OAKS,SUITE 102 SAN ANTONIO, TEXAS 78216 (210) 249-2280

I. S. ENGINEERS, LLC
7670 WOODWAY DRIVE, SUITE 320
HOUSTON, TEXAS 77063
TBPE REG. # F-11657

I-30

RETAINING WALL LAYOUT

RWDC05

SCALE: 1"=20' SHEET 3 OF 4

FED.RD. DIV.NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
6	(SEE TITLE SHEET)		I30
STATE	DISTRICT	COUNTY	SHEET NO.
TEXAS	FTW	TARRANT	1027
CONTROL	SECTION	JOB	
1068	01	214	

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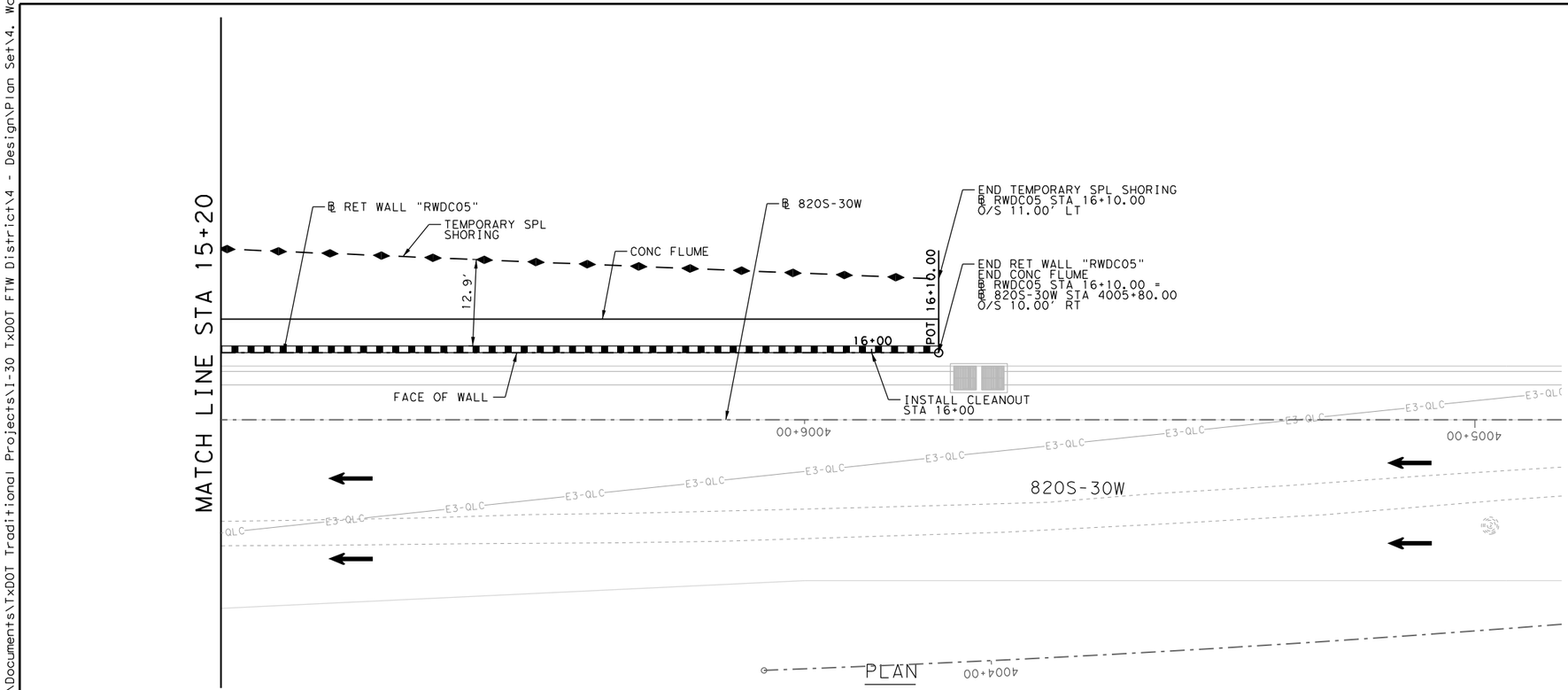
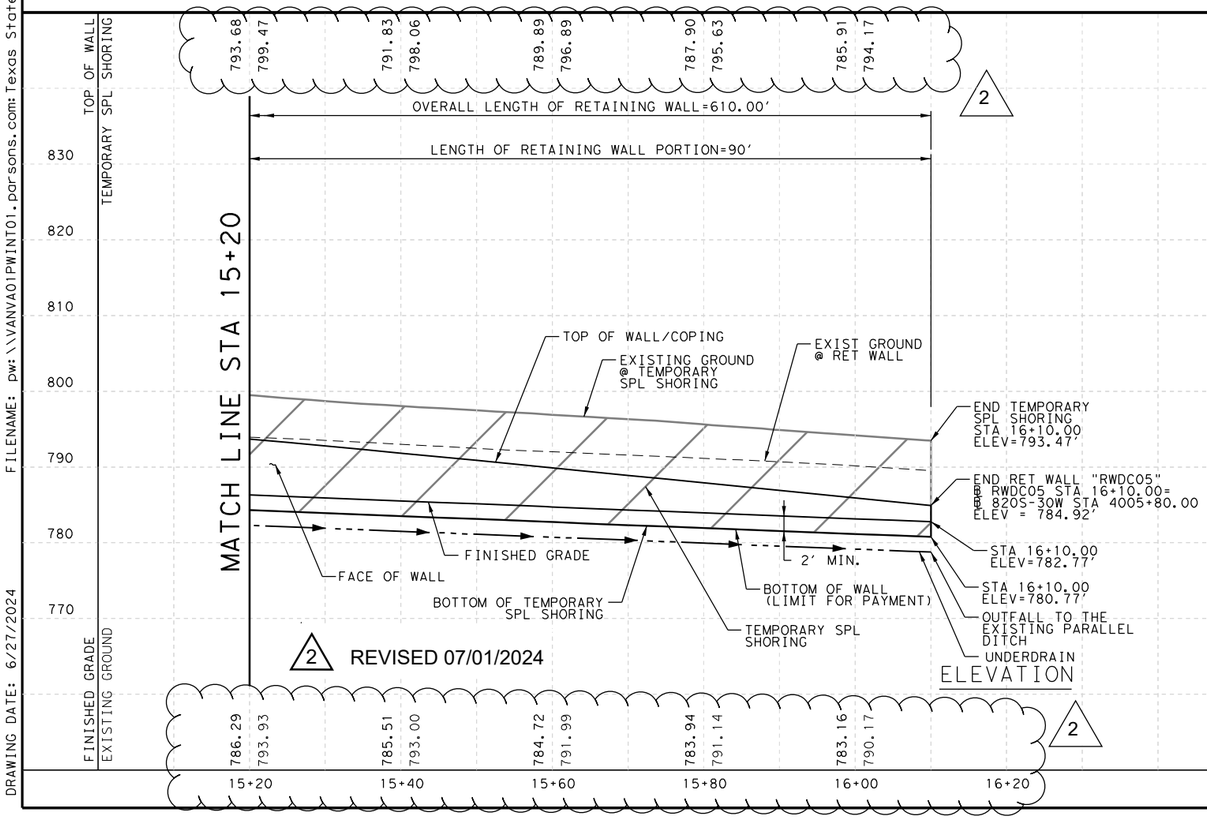
DRAWING DATE: 6/27/2024





2 REVISED 07/01/2024

LEGEND:

- BORING LOCATION
- RETAINING WALL
- TRAFFIC FLOW
- TEMPORARY SPL SHORING
- TEMPORARY SPL SHORING

0' 10' 20'

SCALE IN FEET

NOTES:

1. SEE ROADWAY PLAN AND PROFILE, BRIDGE DETAILS, RETAINING WALL TYPICAL SECTION AND MISC. DETAILS, DRAINAGE PLAN AND LOGS FOR ADDITIONAL INFORMATION.
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STATE OF TEXAS
LIZARDO CEBALLOS
115555
LICENSED PROFESSIONAL ENGINEER

Lizardo Ceballos P.E.

6/27/2024

DEC ENGINEERING EXCELLENCE
ENGINEERING CORPORATION
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415 EMBASSY OAKS,SUITE 102 SAN ANTONIO, TEXAS 78216 (210) 249-2280

Texas Department of Transportation
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I. S. ENGINEERS, LLC
7670 WOODWAY DRIVE, SUITE 320
HOUSTON, TEXAS 77063
TBPE REG. # F-11657

I-30

RETAINING WALL LAYOUT

RWDC05

SCALE: 1"=20' SHEET 4 OF 4

FED.RD. DIV.NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
6	(SEE TITLE SHEET)		I30
STATE	DISTRICT	COUNTY	SHEET NO.
TEXAS	FTW	TARRANT	
CONTROL	SECTION	JOB	1028
1068	01	214	

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DRAWING DATE: 6/27/2024

VOLUME I

GENERAL

TRAFFIC CONTROL

TRAFFIC CONTROL STANDARDS

VOLUME II

GENERAL

ROADWAY DETAILS

ROADWAY STANDARDS

RETAINING WALLS

1 REVISED 06/24/2024

2 REVISED 07/01/2024

STATE OF TEXAS
M. N. MOZAFFAR
85191
LICENSED
PROFESSIONAL ENGINEER

THE STANDARD SHEETS SPECIFICALLY IDENTIFIED ON THIS SHEET WITH A "#" HAVE BEEN ISSUED BY ME AND ARE APPLICABLE TO THIS PROJECT.

M. N. MOZAFFAR PE, P.E. 4/23/2024

M. N. MOZAFFAR PE — DATE

Texas Department of Transportation

I. S. ENGINEERS, LLC
7670 WOODWAY DRIVE, SUITE 320
HOUSTON, TEXAS 77063
TBPE REG. # F-11657

I-30
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SHEET 1 OF 4

FED.RD. DIV.NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
6	(SEE TITLE SHEET)		I30
STATE	DISTRICT	COUNTY	SHEET NO.
TEXAS	FTW	TARRANT	1046
CONTROL	SECTION	JOB	
1068	01	214	

FILENAME: c:\pw\working\texas\parsons\p009205h\d0237747\I30*IND*VOL3*01.dgn
DRAWING DATE: 4/23/2024

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988	RETAINING WALL TYPICAL SECTION RWWBFRO2

STATE OF TEXAS
M. N. MOZAFFAR
85191
LICENSED
PROFESSIONAL ENGINEER

THE STANDARD SHEETS SPECIFICALLY IDENTIFIED ON THIS SHEET WITH A "#" HAVE BEEN ISSUED BY ME AND ARE APPLICABLE TO THIS PROJECT.

M. N. MOZAFFAR PE, P.E. 4/23/2024
M. N. MOZAFFAR PE DATE

1 REVISED 06/24/2024
2 REVISED 07/01/2024

Texas Department of Transportation

I.S. ENGINEERS, LLC
7670 WOODWAY DRIVE, SUITE 320
HOUSTON, TEXAS 77063
TBPE REG. # F-11657

I-30
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SHEET 1 OF 4

FED.RD. DIV.NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
6	(SEE TITLE SHEET)		I30
STATE	DISTRICT	COUNTY	SHEET NO.
TEXAS	FTW	TARRANT	1395
CONTROL	SECTION	JOB	
1068	01	214	

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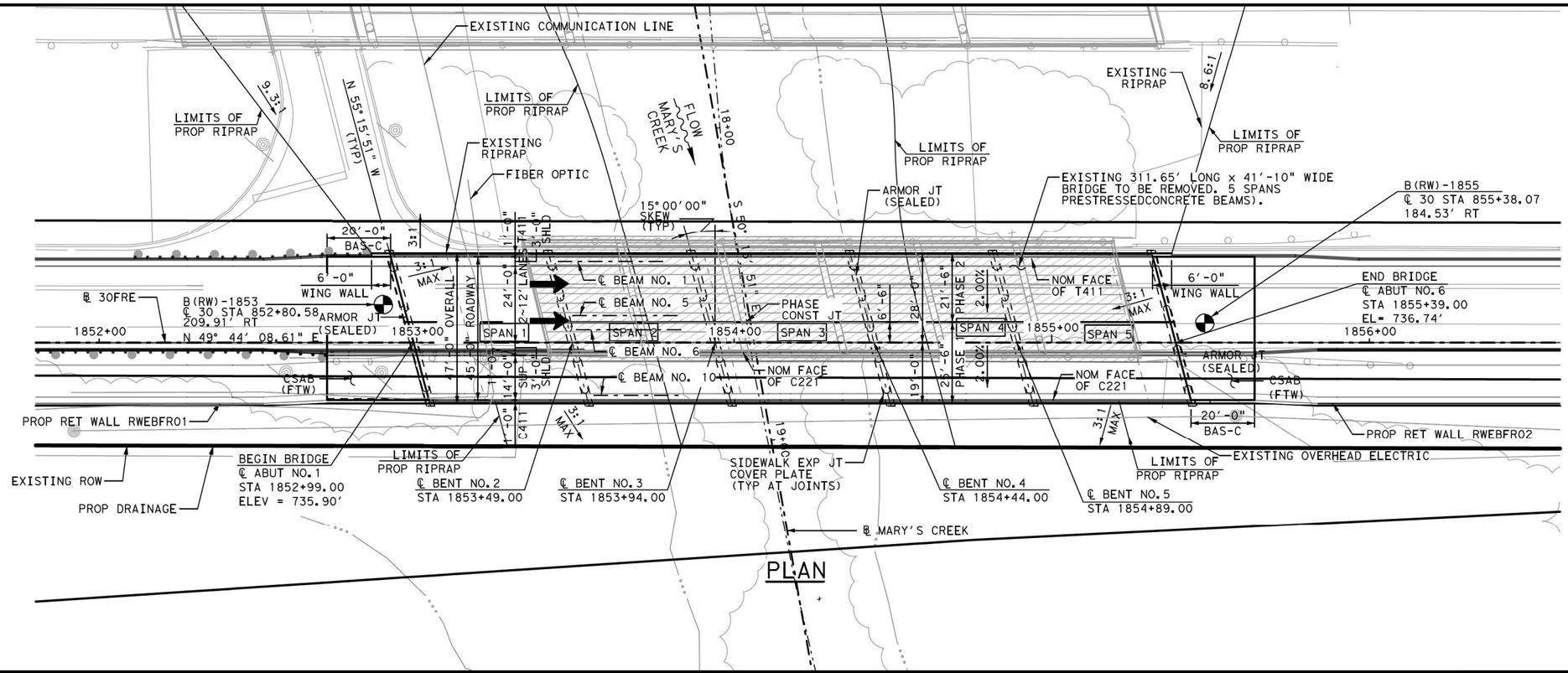


LEGEND:

- BORING LOCATION
- EXISTING BRIDGE TO BE REMOVED

0' 10' 20' 40'

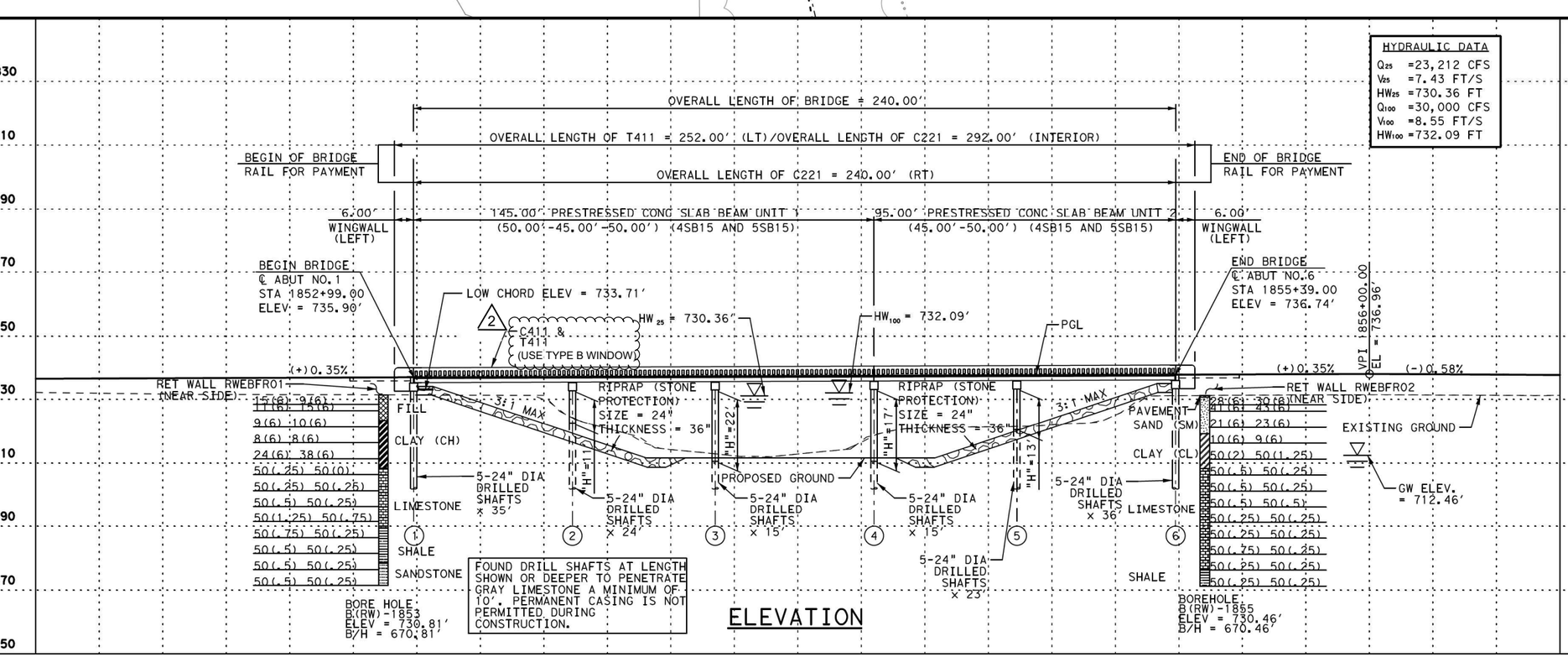
SCALE IN FEET

GENERAL NOTES:

- DESIGNED ACCORDING TO AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS 2020, 9TH EDITION.
- ALL DIMENSIONS ARE EITHER HORIZONTAL OR VERTICAL AND MUST BE CORRECTED FOR GRADE, CROWN, AND/OR SUPERELEVATION.
- CONTRACTOR TO VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO EXCAVATION.
- CONTRACTOR TO VERIFY ALL ELEVATIONS AND DIMENSIONS TO EXISTING STRUCTURES IN THE FIELD PRIOR TO COMMENCING WORKS OR ORDERING MATERIALS.
- FOR TYPICAL SECTIONS, SEE "BRIDGE PHASING DETAILS" SHEET.
- THE "H" VALUES SHOWN ARE ESTIMATED COLUMN HEIGHTS. CONTRACTOR IS RESPONSIBLE FOR CALCULATING ACTUAL COLUMN HEIGHTS BASED ON FIELD CONDITIONS.
- SEE HYDRAULIC DATA SHEET FOR SCOUR INFORMATION.
- SEE UTILITY PLANS FOR PROPOSED RELOCATION OF ALL UTILITY LINES.
- REMOVE EXISTING BRIDGE FOUNDATIONS 2' MINIMUM BELOW FINAL GRADE.
- UTILITIES SHOWN ARE APPROXIMATE AND ARE INTENDED FOR GENERAL INFORMATION ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT ALL UTILITY OWNERS FOR ACTUAL LOCATIONS.

EXIST NBI : 02-220-0-1068-01-122 TO BE REMOVED
NEW NBI : 02-220-0-1068-01-584
FUNCTION CLASSIFICATION: URBAN COLLECTOR STREET
DESIGN SPEED: 30 MPH
PROJECTED ADT (2045): 2,372

HL 93 LOADING
SUPERSTRUCTURE INV/OPR RATINGS: 1.00/1.62



HYDRAULIC DATA

Q_{25}	=23,212 CFS
V_{25}	=7.43 FT/S
HW_{25}	=730.36 FT
Q_{100}	=30,000 CFS
V_{100}	=8.55 FT/S
HW_{100}	=732.09 FT

2 REVISED 07/01/2024

STATE OF TEXAS
FARREN SCOTT BASSE
95587
LICENSED PROFESSIONAL ENGINEER
4/22/2024

I.S. ENGINEERS, LLC
7670 WOODWAY DRIVE, SUITE 320
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TBPE REG. # F-11657

STRUCTURAL ENGINEERING ASSOCIATES
TEXAS REGISTERED ENGINEERING FIRM F-199

I-30

BRIDGE LAYOUT

I-30 EASTBOUND FRONTAGE ROAD MARY'S CREEK BRIDGE

SCALE 1" = 40' SHEET 1 OF 1

FED.RD. DIV.NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
6	SEE TITLE SHEET		I-30
STATE	DISTRICT	COUNTY	SHEET NO.
TEXAS	FTW	TARRANT	1469
CONTROL	SECTION	JOB	
1068	01	214	

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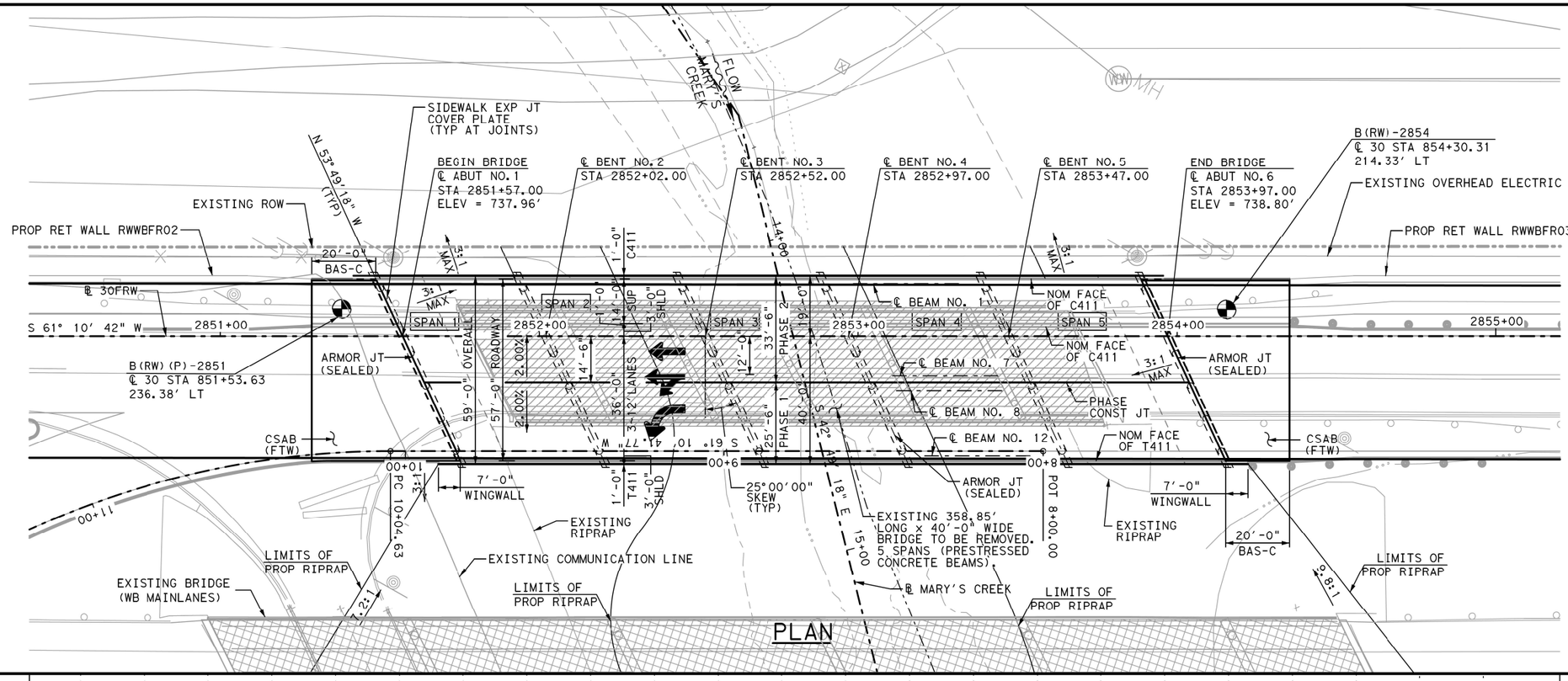
DRAWING DATE: 4/22/2024



LEGEND:

- BORING LOCATION
- EXISTING BRIDGE TO BE REMOVED

0' 10' 20' 40'

SCALE IN FEET

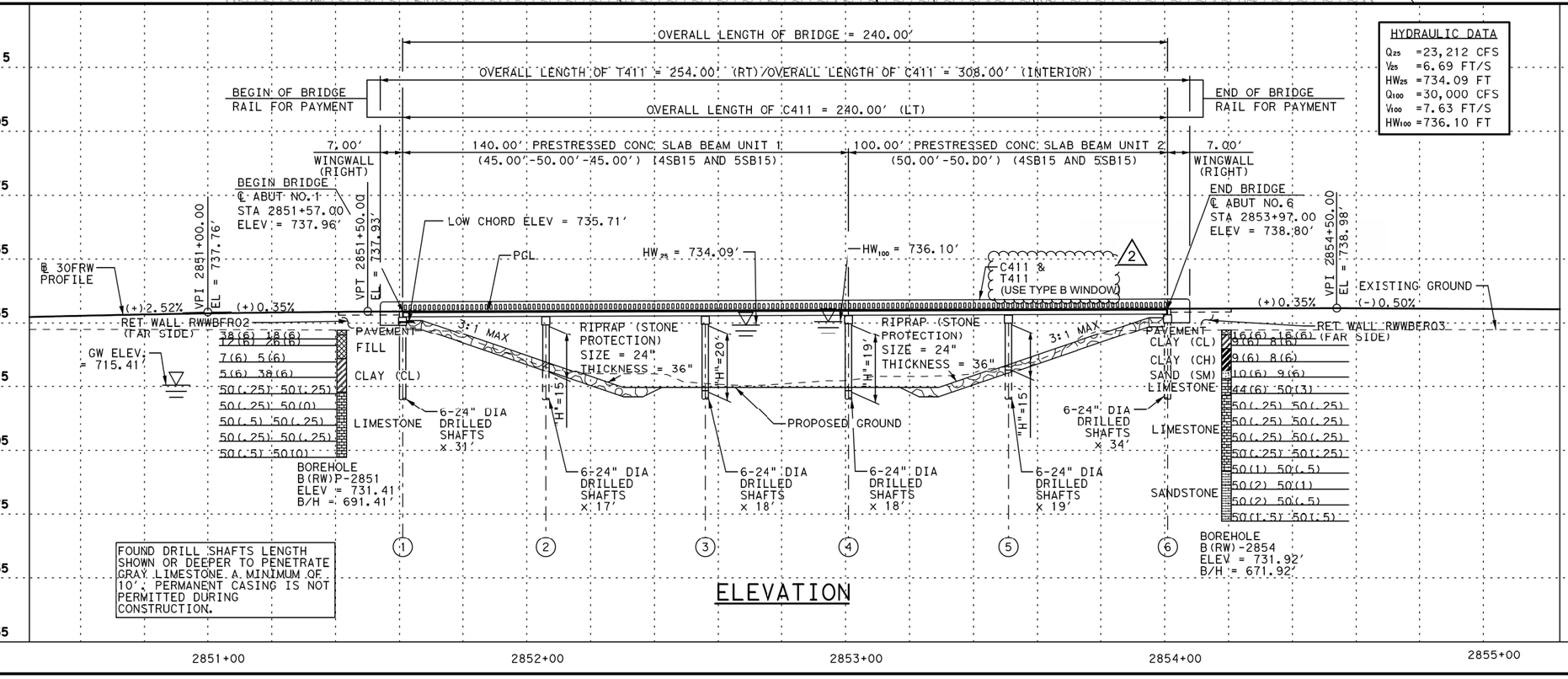
GENERAL NOTES:

- DESIGNED ACCORDING TO AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS 2017, 8TH EDITION.
- ALL DIMENSIONS ARE EITHER HORIZONTAL OR VERTICAL AND MUST BE CORRECTED FOR GRADE, CROWN, AND/OR SUPERELEVATION.
- CONTRACTOR TO VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO EXCAVATION.
- CONTRACTOR TO VERIFY ALL ELEVATIONS AND DIMENSIONS TO EXISTING STRUCTURES IN THE FIELD PRIOR TO COMMENCING WORKS OR ORDERING MATERIALS.
- FOR TYPICAL SECTIONS, SEE "BRIDGE PHASING DETAILS" SHEET.
- THE "H" VALUES SHOWN ARE ESTIMATED COLUMN HEIGHTS. CONTRACTOR IS RESPONSIBLE FOR CALCULATING ACTUAL COLUMN HEIGHTS BASED ON FIELD CONDITIONS.
- SEE HYDRAULIC DATA SHEET FOR SCOUR INFORMATION.
- SEE UTILITY PLANS FOR PROPOSED RELOCATION OF ALL UTILITY LINES.

  REMOVE EXISTING BRIDGE FOUNDATIONS 2' MINIMUM BELOW FINAL GRADE.
- UTILITIES SHOWN ARE APPROXIMATE AND ARE INTENDED FOR GENERAL INFORMATION ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT ALL UTILITY OWNERS FOR ACTUAL LOCATIONS.

EXIST NBI : 02-220-0-1068-01-121 TO BE REMOVED
NEW NBI : 02-220-0-1068-01-585
FUNCTION CLASSIFICATION: URBAN COLLECTOR STREET
DESIGN SPEED: 30 MPH
PROJECTED ADT (2045): 4,199

HL 93 LOADING
SUPERSTRUCTURE INV/OPR RATINGS: 1.01/1.43



FOUND DRILL SHAFTS LENGTH SHOWN OR DEEPER TO PENETRATE GRAY LIMESTONE. A MINIMUM OF 10', PERMANENT CASING IS NOT PERMITTED DURING CONSTRUCTION.

ELEVATION

HYDRAULIC DATA

Q_{25}	=23,212 CFS
V_{25}	=6.69 FT/S
HW_{25}	=734.09 FT
Q_{100}	=30,000 CFS
V_{100}	=7.63 FT/S
HW_{100}	=736.10 FT

2 REVISED 07/01/2024

STATE OF TEXAS
FARREN SCOTT BASSE
95587
LICENSED PROFESSIONAL ENGINEER
Farren Basse P.E.
4/22/2024

I. S. ENGINEERS, LLC
7670 WOODWAY DRIVE, SUITE 320
HOUSTON, TEXAS 77063
TBPE REG. # F-11657

STRUCTURAL ENGINEERING ASSOCIATES
TEXAS REGISTERED ENGINEERING FIRM F-199

I-30

BRIDGE LAYOUT

I-30 WESTBOUND FRONTAGE ROAD MARY'S CREEK BRIDGE

SCALE 1" = 40' SHEET 1 OF 1

FED.RD. DIV.NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
6	SEE TITLE SHEET		I-30
STATE	DISTRICT	COUNTY	SHEET NO.
TEXAS	FTW	TARRANT	1489
CONTROL	SECTION	JOB	
1068	01	214	

FILENAME: S:\Transportation\20-087C TxDOT IH30 Linkcrest Dr to IH820\CAD\01-Sheets\I-30 WBFR\I-30 WBFR*BRG01.dgn
DRAWING DATE: 4/22/2024