SUBJECT: PLANS AND PROPOSAL ADDENDUMS
PROJECT: F 2025(482) CONTROL: 0047-05-057
COUNTY: COLLIN
LETTING: 12/03/2024
REFERENCE NO: 1114

PROPOSAL ADDENDUMS

_ PROPOSAL COVER
X BID INSERTS (SH. NO.: ALL)
_ GENERAL NOTES (SH. NO.:)
_ SPEC LIST (SH. NO.:)
_ SPECIAL PROVISIONS:
ADDED:

DELETED:

_ SPECIAL SPECIFICATIONS:
ADDED:

DELETED:

X OTHER: PLAN SHEET AND OTHER CHANGES

DESCRIPTION OF ABOVE CHANGES
(INCLUDING PLANS SHEET CHANGES)

***** PROPOSAL COVER*****

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

REVISED QUANTITIES FOR THE FOLLOWING BID ITEMS:
104-7011, 105-7002, 496-7004, 496-7006, 496-7007, 464-7005.

464-7007, 464-7009, 465-7071, 450-7062,450-7036

505-7001, 505-7003

ADDED THE FOLLOWING BID ITEMS:

420-7044, 247-7176, 450-7006, 556-7006

DELETED THE FOLLOWING BID ITEMS:
556-7001

DESCRIPTION OF ABOVE CHANGES (CONTINUED)
(INCLUDING PLANS SHEET CHANGES)

***** PLAN SHEET*****
SHEET 1 (TITLE SHEET): REVISE PROJECT NUMBER.

SHEET 2, 709, 1109 (INDEX OF SHEETS): ADDED 465A, 465B FOR CRASH CUSHION ATTENUATOR STANDARDS

SHEET 44-54, 54A(E&Q SHEETS): REVISED SHEETS AS DESCRIBED IN THE BID INSERT OF THE PROPOSAL.

SHEET 64,74,75,76,81,83,59: REVIDED SUMMARY SHEETS

SHEET 465A, 465B: ADD SMART CUSHION STANDARD.

SHEET 774, 761: REVISED DRAINAGE PLAN.

SHEET 903: REVISED BRIDGE PLAN.

SHEET 567, 569, 571, 573, 585, 587, 588, 590,592, 594, 596, 597,

599, 601 , 603, 605, 607, 609, 610, 614, 615, 618, 619, 626,

627, 628, 635, 636, 638,640, 642, 643, 645, 647, 649, 651, 653,

654, 656, 657, 659, 661, 663, 664, 666, 668, 670, 672, 674,

676, 677, 679, 680:REVISED SHEETS DUE TO ADD BID ITEM 556-7006.

FED.RD. DIV.NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
6	F 2025(482)		SH 5, ETC.
STATE	DISTRICT	COUNTY	SHEET NO.
TEXAS	DAL	COLLIN	1
CONTROL	SECTION	JOB	
0047	05	057, etc.	

SH 5
A.D.T. (2025) = 35,800
A.D.T. (2045) = 47,950

FINAL PLANS

NAME OF CONTRACTOR: _____

DATE OF LETTING: _____

DATE WORK BEGAN: _____

DATE WORK COMPLETED: _____

DATE WORK ACCEPTED: _____

SUMMARY OF CHANGE ORDERS:

ATTACHMENT NO. 1-24 TO SPECIAL AGREEMENT FOR CONSTRUCTION, MAINTENANCE, AND OPERATION OF CONTINUOUS HIGHWAY LIGHTING SYSTEMS WITHIN A MUNICIPALITY (FREEWAYS OR EXPRESSWAYS)(SPECIFIC LIMITS) DATED 9/16/2024. THE CITY-STATE CONSTRUCTION, MAINTENANCE, AND OPERATION RESPONSIBILITIES SHALL BE AS HERETOFORE AGREED TO, ACCEPTED, AND SPECIFIED IN THE AGREEMENT TO WHICH THESE PLANS ARE MADE A PART.

Darcy Dade — 10-02-2024
CITY OF MCKINNEY — DATE

VOLUME I

STATE OF TEXAS
DEPARTMENT OF TRANSPORTATION

PLANS OF PROPOSED
STATE HIGHWAY IMPROVEMENT

FEDERAL AID PROJECT
F 2025(482)
CSJ: 0047-05-057, ETC.

SH 5, ETC.
COLLIN COUNTY

SS 399
LIMITS: AT SH 5

CCSJ: 0364-04-049

ROADWAY	= 2,410.00 FT. =	0.456MI.
BRIDGE	= 803.00 FT. =	0.152MI.
TOTAL	= 3,213.00 FT. =	0.609MI.

SS 399
LIMITS: FROM: US 75
TO: SH 5
CCSJ: 0364-04-051

ROADWAY	= 4,682.31 FT. =	0.887MI.
BRIDGE	= 277.39 FT. =	0.053MI.
TOTAL	= 4,954.70 FT. =	0.939MI.

SH 5
LIMITS: FROM: STEWART ROAD
TO: EL DORADO PARKWAY
CCSJ: 0047-05-057

ROADWAY	= 5,659.00 FT. =	1.072MI.
BRIDGE	= 1,411.52 FT. =	0.105MI.
TOTAL	= 6,212.00 FT. =	1.177MI.

SH 5
LIMITS: FROM: SPUR 399 INTERSECTION
TO: STEWART RD
CCSJ: 0047-05-058

ROADWAY	= 2,392.00 FT. =	0.453MI.
BRIDGE	= 0.00 FT. =	0.00 MI.
TOTAL	= 2,392.00 FT. =	0.453MI.

TYPE OF WORK: WIDEN NON-FREEWAY AND FREEWAY, INTERCHANGE (NEW OR RECONSTRUCTED). NEW LOCATION FREEWAY

CONSISTING OF: RECONSTRUCT AND WIDEN FREEWAY AND CONSTRUCT CONTINUOUS FRONTAGE ROADS, RECONSTRUCT AND WIDEN UNDIVIDED ROADWAY TO DIVIDED ROADWAY, CONSTRUCT INTERCHANGE

END PROJECT
END CSJ 0047-05-057
SH5 STA 127+53.00
TRM: 240+0.000

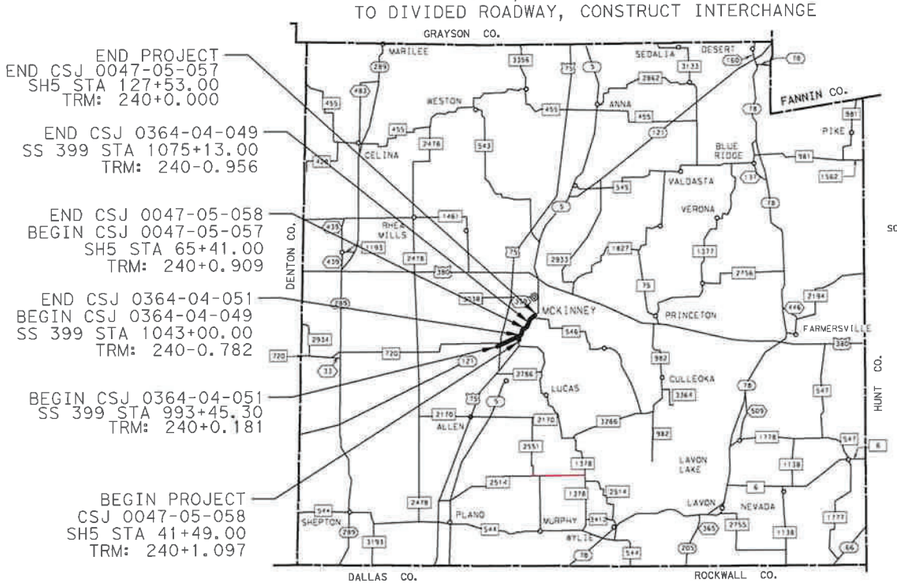
END CSJ 0364-04-049
SS 399 STA 1075+13.00
TRM: 240-0.956

END CSJ 0047-05-058
BEGIN CSJ 0047-05-057
SH5 STA 65+41.00
TRM: 240+0.909

END CSJ 0364-04-051
BEGIN CSJ 0364-04-049
SS 399 STA 1043+00.00
TRM: 240-0.782

BEGIN CSJ 0364-04-051
SS 399 STA 993+45.30
TRM: 240+0.181

BEGIN PROJECT
CSJ 0047-05-058
SH5 STA 41+49.00
TRM: 240+1.097



N

COLLIN COUNTY
SCALE 0 1 2 3 4 5 6 MILES
DALLAS DISTRICT

EQUATIONS: NONE
EXCEPTIONS: NONE
RAILROAD CROSSINGS: NONE

DESIGN SPEEDS = 60 MPH (SS 399 MAINLANES SOUTH OF STEWART RD BRIDGE)
40 MPH (SS 399 MAINLANES NORTH OF STEWART RD BRIDGE, SH 5 MAINLANES, HARRY MCKILLOP BLVD (FM 546), EL DORADO PKWY / INDUSTRIAL BLVD, FRONTAGE ROADS, RAMPS)
30 MPH ALL OTHER CROSS STREETS

FUNCTIONAL CLASSIFICATION:
URBAN PRINCIPAL ARTERIAL:
SS 399 MAINLANE, SH 5 MAINLANE, UNIVERSITY DR (US 380), RAMPS

URBAN MINOR ARTERIAL:
HARRY MCKILLOP BLVD (FM 546), ELDORADO PKWY / INDUSTRIAL BLVD

URBAN COLLECTOR:
STEWART RD, E VIRGINIA ST, E LOUISIANA ST, TENNESSEE ST, FRONTAGE ROADS

URBAN/RURAL LOCAL:
ALL OTHER STREETS

NOTE:
SPECIFICATIONS ADOPTED BY THE TEXAS DEPARTMENT OF TRANSPORTATION, SEPTEMBER 1, 2024, AND THE CONTRACT PROVISIONS LISTED AND DATED AS FOLLOWS SHALL GOVERN ON THIS PROJECT: REQUIRED CONTRACT PROVISIONS FOR ALL FEDERAL-AID CONSTRUCTION CONTRACTS (FORM FHWA 1273, OCTOBER 23, 2023)

Registered Accessibility Specialist (RAS) inspection required. TDLR No. TABS202402304

HDR
Firm Registration No. F-754
17111 Preston Road, Suite 200
Dallas, Texas 75248-1229
972.960.4400

SUBMITTED FOR LETTING 10/01/2024
_____, P.E.
CONSULTANT DESIGN ENGINEER OR PROJECT MANAGER

TEXAS DEPARTMENT OF TRANSPORTATION

RECOMMENDED 10/2/2024
Signed by: James P. Campbell
98671C109B6A4C3... , P.E.
PLANNING & DEVELOPMENT

RECOMMENDED 10/2/2024
DocuSigned by: Jennifer Vorster
4DB68ED9336D4F7... , P.E.

APPROVED 10/2/2024
DocuSigned by: Cesson Clemens
A879E0D10CD6464... , P.E.
ENGINEER

WORK WAS COMPLETED ACCORDING TO THE PLANS AND CONTRACT.

_____, P.E.
Signature of Registrant & Date

⚠1 REVISED 11/14/2024

100% PLANS SUBMITTAL

VOLUME 1

VOLUME 1 - CONTINUED

1 REVISED 11/14/2024

VOLUME 1 - CONTINUED

STATE OF TEXAS
BRIAN VERWIJST
127741
LICENSED
PROFESSIONAL ENGINEER

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

BRIAN VERWIJST, P.E. — 11/14/2024 DATE

STATE OF TEXAS
MOHAMMED S. ULA
131559
LICENSED
PROFESSIONAL ENGINEER

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

MOHAMMED S. ULA, P.E. — 11/14/2024 DATE

NO.	DATE	REVISION	APPROVED

HDR Engineering, Inc.
Firm Registration No. F-754
17111 Preston Road, Suite 300
Dallas, Texas 75248
972.960.4400

Texas Department of Transportation

SH 5

INDEX OF SHEETS

N.T.S. SHEET 1 OF 5

DESIGN	FED.RD. DIV.NO.	FEDERAL-AID PROJECT NO.		HIGHWAY NO.
AKS	6	SEE TITLE SHEET		SH5, ETC.
GRAPHICS AKS	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK MH	TEXAS	DAL	COLLIN	2
CHECK JMD	CONTROL	SECTION	JOB	
	0047	05	057, ETC.	

PLOT DRIVER: TXDOT_PDF_BW.pltcfg
USER: BVERWIJST
FILE: S399PU02.dgn
DATE: 11/14/2024
TIME: 3:33:17 PM
SCALE: 1:1
PENTABLE: 10811-SP399-SEQ1.tbl

Estimate & Quantity Sheet

CONTROLLING PROJECT ID 0047-05-057 **DISTRICT** Dallas **COUNTY** Collin
HIGHWAY SH 5, SS 399

				0047-05-057		0047-05-058		0364-04-049		0364-04-051		TOTAL EST.	TOTAL FINAL
		CONTROL SECTION JOB											
		PROJECT ID		**A00138908**		**A00138912**		**A00059152**		**A00138911**			
		COUNTY		**Collin**		**Collin**		**Collin**		**Collin**			
		HIGHWAY		**SH 5**		**SH 5**		**SS 399**		**SS 399**			
ALT	**BID CODE**	**DESCRIPTION**	**UNIT**	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL		
	100-7002	PREPARING ROW	STA	62.000		24.000		32.000		50.000		168.000	
	104-7001	REMOV CONC (PAV)	SY	53,194.000		17,002.000		24,186.000		23,552.000		117,934.000	
	104-7006	REMOV CONC (RIPRAP)	SY	328.000								328.000	
	104-7008	REMOV CONC (MEDIANS)	SY	783.000		10.000						793.000	
	104-7010	REMOV CONC (PAVERS)	SY	894.000								894.000	
	104-7011	REMOV CONC (DRIVEWAYS)	SY	3,633.000		337.000				256.000		4,226.000	
	104-7013	REMOV CONC (SIDEWALK, RAMP OR SUP)	SY	2,476.000		464.000				768.000		3,708.000	
	104-7018	REMOV CONC (CURB OR CURB & GUTTER)	LF	9,582.000		1,166.000		4,685.000		4,157.000		19,590.000	
	104-7036	REMOV CONC (RAIL)	LF							1,980.000		1,980.000	
	105-7002	RMV (2"-6") TRT/UNTRT BASE & ASPH PAV	SY	1,012.000		1,207.000						2,219.000	
	105-7007	RMV (7"-11") TRT/UNTRT BASE & ASPH PAV	SY	44,590.000		14,725.000		23,737.000		4,356.000		87,408.000	
	110-7001	EXCAV (ROADWAY)	CY	47,613.000		17,917.000		20,204.000		58,074.000		143,808.000	
	132-7008	EMBANK (FNL)(DC)(TY C1)	CY	121,224.000		19,114.000		21,398.000		24,903.000		186,639.000	
	132-7010	EMBANK (FNL)(DC)(TY C2)	CY	33,104.000		16,457.000		8,789.000		7,923.000		66,273.000	
	161-7002	COMPOST MANUF TOPSOIL (4")	SY	42,428.000		19,403.000		19,194.000		22,713.000		103,738.000	
	162-7002	BLOCK SODDING	SY	42,428.000		19,403.000		19,194.000		22,713.000		103,738.000	
	164-7015	DRILL SEED (TEMP_WARM_COOL)	SY	42,428.000		19,403.000		19,194.000		22,713.000		103,738.000	
	168-7001	VEGETATIVE WATERING	TGL	13,464.000		6,162.000		4,058.000		7,206.000		30,890.000	
	170-7013	IRRIGATION SYSTEM (MISC)	LS							1.000		1.000	
	247-7176	FL BS (CMP IN PLC)(TYA GR1-2)(FNAL POS)	CY	2,989.000								2,989.000	
	260-7005	LIME (COM OR QK)(SLURRY)	TON	2,277.000		705.000		1,355.000		2,373.000		6,710.000	
	260-7008	LIME TRT (EXIST MATL)(10")	SY	25,365.000		27,947.000				15,654.000		68,966.000	
	260-7022	LIME TRT(EXIST MATL)(13")	SY	50,093.000				41,590.000		60,743.000		152,426.000	
	276-7169	CEM TRT(PLNT MX)(CL L)(T D)(GR1-2)(8")	SY					50,221.000		60,743.000		110,964.000	
	344-7001	SP MIXES SP-B PG64-22	TON	17,629.000		6,153.000				3,447.000		27,229.000	
	344-7041	SP MIXES SP-D PG64-22	TON					3,456.000		4,180.000		7,636.000	
	360-7007	CONC PVMT (CRCP) (13")	SY					48,907.000		58,117.000		107,024.000	
	360-7014	CONC PVMT (CRCP) (11.5")	SY	73,269.000		25,598.000				14,022.000		112,889.000	
	400-7006	CUT & RESTORING PAV	SY					228.000				228.000	
	400-7010	CEM STABIL BKFL	CY	253.000						255.000		508.000	
	402-7001	TRENCH EXCAVATION PROTECTION	LF	7,740.000		2,974.000		2,105.000		2,599.000		15,418.000	
	403-7001	TEMPORARY SPL SHORING	SF	48,317.000		14,588.000		12,725.000		18,774.000		94,404.000	
	410-7001	SOIL NAIL ANCHORS	LF							17,890.000		17,890.000	
	416-7002	DRILL SHAFT (18 IN)	LF	325.000				45.000				370.000	
	416-7004	DRILL SHAFT (24 IN)	LF			120.000						120.000	

△1 **REVISED 11/14/2024**

Estimate & Quantity Sheet

CONTROLLING PROJECT ID 0047-05-057 **DISTRICT** Dallas **COUNTY** Collin
HIGHWAY SH 5, SS 399

			CONTROL SECTION JOB	**0047-05-057**		**0047-05-058**		**0364-04-049**		**0364-04-051**		TOTAL EST.	TOTAL FINAL
			PROJECT ID	**A00138908**		**A00138912**		**A00059152**		**A00138911**			
			COUNTY	**Collin**		**Collin**		**Collin**		**Collin**			
			HIGHWAY	**SH 5**		**SH 5**		**SS 399**		**SS 399**			
ALT	**BID CODE**	**DESCRIPTION**	**UNIT**	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL		
	416-7006	DRILL SHAFT (36 IN)	LF	1,960.000				1,110.000		1,787.000		4,857.000	
	416-7007	DRILL SHAFT (42 IN)	LF	2,591.000		1,493.000		2,040.000				6,124.000	
	416-7008	DRILL SHAFT (48 IN)	LF	3,165.000				1,295.000		17.000		4,477.000	
	416-7019	DRILL SHAFT (108 IN)	LF					205.000				205.000	
	416-7028	DRILL SHAFT (SIGN MTS) (24 IN)	LF	21.000								21.000	
	416-7029	DRILL SHAFT (SIGN MTS) (30 IN)	LF	56.000								56.000	
	416-7030	DRILL SHAFT (SIGN MTS) (36 IN)	LF	76.000				132.000				208.000	
	416-7031	DRILL SHAFT (SIGN MTS) (42 IN)	LF					72.000				72.000	
	416-7033	DRILL SHAFT (SIGN MTS) (54 IN)	LF	20.000						51.000		71.000	
	416-7037	DRILL SHAFT (HIGH MAST POLE) (60 IN)	LF	129.000		68.000				88.000		285.000	
	416-7040	DRILL SHAFT (RDWY ILL POLE) (30 IN)	LF	216.000						16.000		232.000	
	416-7043	DRILL SHAFT (TRF SIG POLE) (30 IN)	LF	33.000								33.000	
	416-7044	DRILL SHAFT (TRF SIG POLE) (36 IN)	LF	52.000								52.000	
	416-7046	DRILL SHAFT (TRF SIG POLE) (48 IN)	LF	110.000								110.000	
	419-7001	SOUND WALL	SF			9,265.000				8,770.000		18,035.000	
	420-7013	CL C CONC (ABUT)(HPC)	CY	191.400				114.300		61.900		367.600	
	420-7017	CL C CONC (ABUT)(HPC)(EXTEND)	CY							50.000		50.000	
	420-7023	CL C CONC (CAP)(HPC)	CY	816.900				681.600		184.900		1,683.400	
	420-7039	CL C CONC (COLUMN)(HPC)	CY	695.000				749.300		159.300		1,603.600	
	420-7044	CL C CONC (FOOTING)	CY	324.000		427.000						751.000	
	420-7052	CL C CONC (RAIL FOUNDATION)	CY	160.000		44.000				11.000		215.000	
	420-7074	CL F CONC (CAP)(HPC)(MASS)	CY					249.400				249.400	
	420-7106	CL F CONC (COLUMN)(HPC)(MASS)	CY					152.700				152.700	
	422-7002	REINF CONC SLAB (HPC)	SF	121,676.000				129,374.000		38,027.000		289,077.000	
	422-7004	REINF CONC SLAB (EXTEND SLAB)(HPC)	SF							15,327.000		15,327.000	
	422-7012	BRIDGE SIDEWALK	SF	15,359.000						8,169.000		23,528.000	
	422-7014	APPROACH SLAB (HPC)	CY	295.600				221.000		112.800		629.400	
	422-7015	APPROACH SLAB (EXTEND) (HPC)	CY							146.800		146.800	
	423-7001	RETAINING WALL (MSE)	SF	63,313.000		38,990.000		19,421.000		27,526.000		149,250.000	
	423-7016	RETAINING WALL (CAST-IN-PLACE)	SF	2,387.000		409.000				4,637.000		7,433.000	
	423-7019	RETAINING WALL (DRILL SHAFT) (FASCIA)	SF	4,665.000		6,852.000						11,517.000	
	423-7023	RETAINING WALL (SOIL NAIL) (FASCIA)	SF							10,689.000		10,689.000	
	425-7002	PRESTR CONC GIRDER (TX34)	LF	10,617.920								10,617.920	
	425-7003	PRESTR CONC GIRDER (TX40)	LF	5,881.240				11,605.590				17,486.830	
	425-7004	PRESTR CONC GIRDER (TX46)	LF							5,252.620		5,252.620	

1 **REVISED 11/14/2024**

Estimate & Quantity Sheet

CONTROLLING PROJECT ID 0047-05-057 **DISTRICT** Dallas **COUNTY** Collin
HIGHWAY SH 5, SS 399

														TOTAL EST.	TOTAL FINAL
		CONTROL SECTION JOB		**0047-05-057**		**0047-05-058**		**0364-04-049**		**0364-04-051**					
		PROJECT ID		**A00138908**		**A00138912**		**A00059152**		**A00138911**					
		COUNTY		**Collin**		**Collin**		**Collin**		**Collin**					
		HIGHWAY		**SH 5**		**SH 5**		**SS 399**		**SS 399**					
ALT	**BID CODE**	**DESCRIPTION**	**UNIT**	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL				
	425-7005	PRESTR CONC GIRDER (TX54)	LF					2,025.000		2,207.440				4,232.440	
	432-7001	RIPRAP (CONC)(4 IN)	CY	653.240		245.120		100.000		325.380				1,323.740	
	432-7007	RIPRAP (CONC) (CL B) (4 IN)	CY	0.680										0.680	
	432-7012	RIPRAP (CONC)(FLUME)	CY	58.000		75.000				84.000				217.000	
	432-7013	RIPRAP (MOW STRIP)(4 IN)	CY	529.000		34.000				76.000				639.000	
	432-7024	RIPRAP (STONE TY R)(DRY)(18 IN)	CY	1,587.000		75.000				6,256.000				7,918.000	
	432-7038	RIPRAP (STONE COMMON)(GROUT)(12 IN)	CY	263.000										263.000	
	432-7041	RIPRAP (STONE PROTECTION)(12 IN)	CY			3.000								3.000	
	432-7043	RIPRAP (STONE PROTECTION)(18 IN)	CY	49.000		4.000		78.000		20.000				151.000	
	434-7039	ELASTOMERIC BEARING (F9)	EA					5.000						5.000	
	434-7116	SLIDING ELASTOMERIC BEARING (ES 10)	EA					10.000						10.000	
	442-7001	STR STEEL (PLATE GIRDER)	LB					1,584,000.000						1,584,000.000	
	442-7007	STR STEEL (MISC NON-BRIDGE)	LB	1,606.000						584.000				2,190.000	
	450-7006	RAIL (TY T222)	LF							336.000				336.000	
	450-7013	RAIL (TY T402)(HPC)	LF							700.600				700.600	
	450-7024	RAIL (TY SSTR)	LF	6,280.000		5,491.000		7,965.000		13,521.000				33,257.000	
	450-7025	RAIL (TY SSTR)(HPC)	LF	3,810.800				2,799.700						6,610.500	
	450-7028	RAIL (TY T80SS)	LF	964.000										964.000	
	450-7036	RAIL (TY C402)	LF	2,569.000		791.000				1,621.000				4,981.000	
	450-7037	RAIL (TY C402)(HPC)	LF	1,348.600						700.000				2,048.600	
	450-7062	RAIL (HANDRAIL)(TY E)	LF	728.000		110.000								838.000	
	454-7004	SEALED EXPANSION JOINT (4 IN) (SEJ - M)	LF	829.000				711.000		332.000				1,872.000	
	454-7005	SEALED EXPANSION JOINT (5 IN) (SEJ - M)	LF					75.000						75.000	
	462-7012	CONC BOX CULV (6 FT X 4 FT)	LF	419.000										419.000	
	462-7013	CONC BOX CULV (6 FT X 5 FT)	LF	521.000										521.000	
	462-7021	CONC BOX CULV (8 FT X 4 FT)	LF					315.000						315.000	
	462-7035	CONC BOX CULV (10 FT X 7 FT)	LF	639.000										639.000	
	464-7003	RC PIPE (CL III)(18 IN)	LF	116.000										116.000	
	464-7005	RC PIPE (CL III)(24 IN)	LF	6,329.000		2,224.000		1,375.000		1,968.000				11,896.000	
	464-7007	RC PIPE (CL III)(30 IN)	LF	414.000		1,646.000		359.000		313.000				2,732.000	
	464-7009	RC PIPE (CL III)(36 IN)	LF	2,524.000										2,524.000	
	464-7010	RC PIPE (CL III)(42 IN)	LF	242.000		445.000		125.000						812.000	
	464-7011	RC PIPE (CL III)(48 IN)	LF	427.000				12.000						439.000	
	464-7012	RC PIPE (CL III)(54 IN)	LF							644.000				644.000	
	464-7032	RC PIPE (CL V)(18 IN)	LF	18.000		23.000				38.000				79.000	

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Estimate & Quantity Sheet

CONTROLLING PROJECT ID 0047-05-057 **DISTRICT** Dallas **COUNTY** Collin
HIGHWAY SH 5, SS 399

				0047-05-057		0047-05-058		0364-04-049		0364-04-051		TOTAL EST.	TOTAL FINAL
		CONTROL SECTION JOB											
		PROJECT ID		**A00138908**		**A00138912**		**A00059152**		**A00138911**			
		COUNTY		**Collin**		**Collin**		**Collin**		**Collin**			
		HIGHWAY		**SH 5**		**SH 5**		**SS 399**		**SS 399**			
ALT	**BID CODE**	**DESCRIPTION**	**UNIT**	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL		
	465-7004	MANH (COMPL)(PRM)(72IN)	EA	1.000								1.000	
	465-7005	JCTBOX(COMPL)(PJB)(3FTX3FT)	EA	2.000						2.000		4.000	
	465-7009	JCTBOX(COMPL)(PJB)(5FTX5FT)	EA			1.000						1.000	
	465-7011	JCTBOX(COMPL)(PJB)(6FTX6FT)	EA							2.000		2.000	
	465-7016	INLET (COMPL)(PCO)(3FT)(BOTH)	EA	3.000								3.000	
	465-7029	INLET (COMPL)(PCU)(3FT)(NONE)	EA	4.000								4.000	
	465-7030	INLET (COMPL)(PCU)(3FT)(LEFT)	EA	4.000		1.000				6.000		11.000	
	465-7031	INLET (COMPL)(PCU)(3FT)(RIGHT)	EA	7.000		3.000				4.000		14.000	
	465-7032	INLET (COMPL)(PCU)(3FT)(BOTH)	EA	26.000		8.000				2.000		36.000	
	465-7034	INLET (COMPL)(PCU)(4FT)(LEFT)	EA	1.000		2.000				1.000		4.000	
	465-7035	INLET (COMPL)(PCU)(4FT)(RIGHT)	EA			2.000						2.000	
	465-7036	INLET (COMPL)(PCU)(4FT)(BOTH)	EA	2.000		1.000				1.000		4.000	
	465-7037	INLET (COMPL)(PCU)(5FT)(NONE)	EA	1.000								1.000	
	465-7040	INLET (COMPL)(PCU)(5FT)(BOTH)	EA	7.000		1.000						8.000	
	465-7044	INLET (COMPL)(PCU)(6FT)(BOTH)	EA	2.000								2.000	
	465-7071	INLET (COMPL)(PSL)(RC)(4FTX4FT)	EA	6.000				1.000				7.000	
	465-7072	INLET (COMPL)(PSL)(RC)(3FTX5FT)	EA	1.000								1.000	
	465-7074	INLET (COMPL)(PSL)(RC)(5FTX5FT)	EA			2.000						2.000	
	465-7076	INLET (COMPL)(PSL)(RC)(6FTX6FT)	EA							1.000		1.000	
	465-7077	INLET (COMPL)(PSL)(RC)(8FTX8FT)	EA	4.000								4.000	
	465-7126	INLET (COMPL)(PSL)(FG)(3FTX3FT-3FTX3FT)	EA	7.000		5.000				4.000		16.000	
	465-7127	INLET (COMPL)(PSL)(FG)(4FTX4FT-3FTX3FT)	EA			1.000						1.000	
	465-7128	INLET (COMPL)(PSL)(FG)(4FTX4FT-4FTX4FT)	EA	1.000		1.000				1.000		3.000	
	465-7130	INLET (COMPL)(PSL)(FG)(3FTX5FT-3FTX5FT)	EA							1.000		1.000	
	465-7146	INLET(COMPL)(PSL)(SFG)(3FTX3FT-3FTX3FT)	EA							1.000		1.000	
	465-7147	INLET(COMPL)(PSL)(SFG)(4FTX4FT-4FTX4FT)	EA	1.000								1.000	
	465-7148	INLET(COMPL)(PSL)(SFG)(3FTX5FT-3FTX5FT)	EA	2.000		1.000		10.000		3.000		16.000	
	465-7160	INLET(COMPL)(PAZD)(FG)(4FTX4FT-4FTX4FT)	EA			2.000						2.000	
	465-7162	INLET(COMPL)(PAZD)(FG)(5FTX5FT-4FTX4FT)	EA	1.000								1.000	
	465-7332	JCT BOX (COMPL)(SPL)	EA					1.000				1.000	
	465-7352	INLET (COMPL) (TY MSE2)	EA	2.000		1.000				3.000		6.000	
	466-7216	WINGWALL (PW-MSE)	EA	2.000				1.000				3.000	
	467-7137	SET (TY I)(S= 6 FT)(HW= 6 FT)(4:1)(C)	EA	1.000								1.000	
	467-7326	SET (TY II) (24 IN) (RCP) (4: 1) (C)	EA	5.000								5.000	
	467-7327	SET (TY II) (24 IN) (RCP) (6: 1) (C)	EA	3.000								3.000	

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Estimate & Quantity Sheet

CONTROLLING PROJECT ID 0047-05-057 **DISTRICT** Dallas **COUNTY** Collin
HIGHWAY SH 5, SS 399

				0047-05-057		0047-05-058		0364-04-049		0364-04-051		TOTAL EST.	TOTAL FINAL
		CONTROL SECTION JOB											
		PROJECT ID		**A00138908**		**A00138912**		**A00059152**		**A00138911**			
		COUNTY		**Collin**		**Collin**		**Collin**		**Collin**			
		HIGHWAY		**SH 5**		**SH 5**		**SS 399**		**SS 399**			
ALT	**BID CODE**	**DESCRIPTION**	**UNIT**	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL		
	467-7328	SET (TY II) (24 IN) (RCP) (6: 1) (P)	EA			2.000						2.000	
	467-7378	SET (TY II) (42 IN) (RCP) (4: 1) (C)	EA			1.000						1.000	
	467-7398	SET (TY II) (54 IN) (RCP) (4: 1) (C)	EA							1.000		1.000	
	467-7400	SET (TY II) (54 IN) (RCP) (6: 1) (P)	EA							1.000		1.000	
	467-7468	SET(TY II)(24 IN)(RCP)(4:1)(P)	EA	1.000						1.000		2.000	
	471-7006	GRATE AND FRAME (BRIDGE DRAIN)	EA					6.000				6.000	
	476-7011	JACK BOR OR TUN PIPE(24 IN)(RC)(CL III)	LF	90.000		55.000						145.000	
	476-7012	JACK BOR OR TUN PIPE(30 IN)(RC)(CL III)	LF	67.000								67.000	
	476-7014	JACK BOR OR TUN PIPE(42 IN)(RC)(CL III)	LF					84.000				84.000	
	479-7001	ADJUSTING MANHOLES	EA							2.000		2.000	
	481-7027	PIPE (PVC) (SCH 80) (6 IN)	LF					256.000				256.000	
	496-7002	REMOV STR (INLET)	EA	19.000		2.000		5.000		21.000		47.000	
	496-7003	REMOV STR (MANHOLE)	EA	8.000						4.000		12.000	
	496-7004	REMOV STR (SET)	EA	7.000		11.000				1.000		19.000	
	496-7005	REMOV STR (WINGWALL)	EA	1.000		6.000				1.000		8.000	
	496-7006	REMOV STR (HEADWALL)	EA	3.000		5.000						8.000	
	496-7007	REMOV STR (PIPE)	LF	3,625.000		771.000		200.000		2,324.000		6,920.000	
	496-7008	REMOV STR (BOX CULVERT)	LF	279.000		500.000		300.000				1,079.000	
	496-7010	REMOV STR (BRIDGE 100 - 499 FT LENGTH)	EA	4.000								4.000	
	496-7019	REMOV STR (RET WALL)	LF							130.000		130.000	
	500-7001	MOBILIZATION	LS	0.350		0.140		0.230		0.280		1.000	
	502-7001	BARRICADES, SIGNS AND TRAFFIC HANDLING	MO	42.000								42.000	
	503-7002	PORTABLE CHANGEABLE MESSAGE SIGN	EA	8.000								8.000	
	505-7001	TMA (STATIONARY)	DAY	1,500.000								1,500.000	
	505-7003	TMA (MOBILE OPERATION)	DAY	100.000								100.000	
	506-7002	ROCK FILTER DAMS (INSTALL) (TY 2)	LF	132.000								132.000	
	506-7003	ROCK FILTER DAMS (INSTALL) (TY 3)	LF	248.000				198.000		66.000		512.000	
	506-7011	ROCK FILTER DAMS (REMOVE)	LF	380.000		66.000		132.000		66.000		644.000	
	506-7020	CONSTRUCTION EXITS (INSTALL) (TY 1)	SY	660.000		264.000				396.000		1,320.000	
	506-7024	CONSTRUCTION EXITS (REMOVE)	SY	660.000		264.000				396.000		1,320.000	
	506-7039	TEMP SEDMT CONT FENCE (INSTALL)	LF	14,581.000		2,589.000		1,764.000		11,622.000		30,556.000	
	506-7041	TEMP SEDMT CONT FENCE (REMOVE)	LF	14,581.000		2,589.000		1,764.000		11,622.000		30,556.000	
	506-7044	BIODEG EROSN CONT LOGS (INSTL) (12")	LF	1,447.000		352.000		114.000		644.000		2,557.000	
	506-7045	BIODEG EROSN CONT LOGS (INSTL) (18")	LF	347.000		149.000		182.000		215.000		893.000	
	506-7046	BIODEG EROSN CONT LOGS (REMOVE)	LF	1,793.000		501.000		296.000		858.000		3,448.000	

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Estimate & Quantity Sheet

CONTROLLING PROJECT ID 0047-05-057 **DISTRICT** Dallas **COUNTY** Collin
HIGHWAY SH 5, SS 399

				0047-05-057		0047-05-058		0364-04-049		0364-04-051		TOTAL EST.	TOTAL FINAL
		CONTROL SECTION JOB											
		PROJECT ID		**A00138908**		**A00138912**		**A00059152**		**A00138911**			
		COUNTY		**Collin**		**Collin**		**Collin**		**Collin**			
		HIGHWAY		**SH 5**		**SH 5**		**SS 399**		**SS 399**			
ALT	**BID CODE**	**DESCRIPTION**	**UNIT**	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL		
	508-7001	CONSTRUCTING DETOURS	SY	12,329.700		3,218.000		7,698.200				23,245.900	
	512-7001	PORT CTB (FUR & INST)(SGL SLOPE)(TY 1)	LF	1,100.000		720.000		1,160.900		5,580.000		8,560.900	
	512-7009	PORT CTB (FUR & INST)(LOW PROF)(TY 1)	LF	2,320.000						240.000		2,560.000	
	512-7010	PORT CTB (FUR & INST)(LOW PROF)(TY 2)	LF	80.000						40.000		120.000	
	512-7025	PORT CTB (MOVE)(SGL SLP)(TY 1)	LF	360.000		640.000		5,500.000		10,300.000		16,800.000	
	512-7033	PORT CTB (MOVE)(LOW PROF)(TY 1)	LF	1,660.000				500.000		480.000		2,640.000	
	512-7034	PORT CTB (MOVE)(LOW PROF)(TY 2)	LF	160.000				100.000		20.000		280.000	
	512-7049	PORT CTB (REMOVE)(SGL SLP)(TY 1)	LF	1,500.000		340.000		2,580.000		3,980.000		8,400.000	
	512-7057	PORT CTB (REMOVE)(LOW PROF)(TY 1)	LF	1,700.000				380.000		480.000		2,560.000	
	512-7058	PORT CTB (REMOVE)(LOW PROF)(TY 2)	LF	40.000				60.000		20.000		120.000	
	512-7089	PCTB (FUR&INST)(F-SHAPE OR SNGL SLP)TY1	LF	150.000				630.000				780.000	
	514-7001	PERM CTB (SGL SLOPE) (TY 1) (42)	LF					691.000		262.000		953.000	
	514-7002	PERM CTB (SGL SLOPE) (TY 3) (42)	LF					111.000				111.000	
	514-7018	PERM CTB(SGL SLOPE)(TY 1)(42)(HPC)	LF					823.200		277.400		1,100.600	
	514-7038	PERM CTB (TRAN SSCB TO SSTR) (MOD)	LF					75.000		225.000		300.000	
	514-7051	PERM CTB (TRAN T80SS TO SSTR)(MOD)	LF	30.000								30.000	
	527-7001	COLORED TEXTURED CONC (4")	SY	546.000								546.000	
	529-7007	CONC CURB (MONO) (TY II)	LF	25,632.000		7,811.000				4,331.000		37,774.000	
	530-7006	DRIVEWAYS (CONC)	SY	4,591.000		1,350.000				239.000		6,180.000	
	531-7002	CONC SIDEWALKS (5")	SY	9,934.000		4,327.000				3,633.000		17,894.000	
	531-7005	CURB RAMPS (TY 1)	EA	6.000								6.000	
	531-7008	CURB RAMPS (TY 5)	EA	6.000		1.000						7.000	
	531-7009	CURB RAMPS (TY 6)	EA	4.000								4.000	
	531-7010	CURB RAMPS (TY 7)	EA	13.000		6.000				2.000		21.000	
	531-7011	CURB RAMPS (TY 10)	EA	52.000		12.000						64.000	
	531-7012	CURB RAMPS (TY 20)	EA	2.000								2.000	
	531-7013	CURB RAMPS (TY 21)	EA	1.000								1.000	
	531-7014	CURB RAMPS (TY 22)	EA	1.000								1.000	
	538-7001	RIGHT OF WAY MARKERS	EA	50.000		1.000						51.000	
	540-7002	MTL W-BEAM GD FEN (STEEL POST)	LF	225.000		25.000				300.000		550.000	
	540-7005	MTL BEAM GD FEN TRANS (THRIE-BEAM)	EA	4.000		1.000				4.000		9.000	
	540-7015	DOWNSTREAM ANCHOR TERMINAL SECTION	EA							1.000		1.000	
	542-7001	REMOVE METAL BEAM GUARD FENCE	LF	1,425.000						2,037.500		3,462.500	
	542-7004	RM MTL BM GD FENCE TRANS (THRIE-BEAM)	EA							5.000		5.000	
	544-7001	GUARDRAIL END TREATMENT (INSTALL)	EA	4.000		1.000				5.000		10.000	

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Estimate & Quantity Sheet

CONTROLLING PROJECT ID 0047-05-057 **DISTRICT** Dallas **COUNTY** Collin
HIGHWAY SH 5, SS 399

				0047-05-057		0047-05-058		0364-04-049		0364-04-051		TOTAL EST.	TOTAL FINAL
		CONTROL SECTION JOB											
		PROJECT ID		**A00138908**		**A00138912**		**A00059152**		**A00138911**			
		COUNTY		**Collin**		**Collin**		**Collin**		**Collin**			
		HIGHWAY		**SH 5**		**SH 5**		**SS 399**		**SS 399**			
ALT	**BID CODE**	**DESCRIPTION**	**UNIT**	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL		
	544-7003	GUARDRAIL END TREATMENT (REMOVE)	EA	11.000						6.000		17.000	
	545-7002	CRASH CUSH ATTEN (MOVE & RESET)	EA	2.000		2.000		9.000		8.000		21.000	
	545-7004	CRASH CUSH ATTEN (REMOVE)	EA	1.000		1.000		3.000		2.000		7.000	
	545-7008	CRASH CUSH ATTEN (INSTL)(L)(W)(TL3)	EA	1.000		1.000		1.000		2.000		5.000	
	545-7014	CRASH CUSH ATTEN (INSTL)(S)(N)(TL3)	EA	2.000		1.000		4.000				7.000	
	556-7006	PIPE UNDERDRAINS (TY 6) (6")	LF	5,334.000		2,829.000		1,058.000		3,303.000		12,524.000	
	610-7004	RELOCATE RD IL ASM (TRANS-BASE)	EA	4.000								4.000	
	610-7007	REMOVE RD IL ASM (SHOE-BASE)	EA	1.000								1.000	
	610-7009	REMOVE RD IL ASM (TRANS-BASE)	EA							8.000		8.000	
	610-7015	IN RD IL (U/P) (TY 1) (250W EQ) LED	EA	20.000								20.000	
	613-7007	HI MST IL POLE (175 FT)(80 MPH)	EA	5.000		2.000				3.000		10.000	
	614-7001	LED HI MST IL ASM (6 FIXT) (TY S)	EA	1.000								1.000	
	614-7009	LED HI MST IL ASM(6 FIXT) (TY A)SHLD	EA	4.000		2.000				3.000		9.000	
	618-7030	CONDT (PVC) (SCH 40) (2")	LF	925.000								925.000	
	618-7031	CONDT (PVC) (SCH 40) (2") (BORE)	LF	1,085.000								1,085.000	
	618-7036	CONDT (PVC) (SCH 40) (3")	LF	490.000								490.000	
	618-7040	CONDT (PVC) (SCH 40) (4")	LF	635.000								635.000	
	618-7041	CONDT (PVC) (SCH 40) (4") (BORE)	LF	1,255.000								1,255.000	
	618-7054	CONDT (PVC) (SCH 80) (2")	LF	6,295.000		725.000				1,440.000		8,460.000	
	618-7055	CONDT (PVC) (SCH 80) (2") (BORE)	LF	1,305.000		450.000		325.000		715.000		2,795.000	
	618-7060	CONDT (PVC) (SCH 80) (3")	LF	7,170.000								7,170.000	
	618-7064	CONDT (PVC) (SCH 80) (4")	LF	980.000								980.000	
	618-7072	CONDT (RM) (1")	LF	1,005.000								1,005.000	
	620-7003	ELEC CONDR (NO.12) BARE	LF	700.000								700.000	
	620-7004	ELEC CONDR (NO.12) INSULATED	LF	1,400.000								1,400.000	
	620-7007	ELEC CONDR (NO.8) BARE	LF	5,625.000		1,080.000						6,705.000	
	620-7008	ELEC CONDR (NO.8) INSULATED	LF	24,770.000		2,190.000		860.000				27,820.000	
	620-7009	ELEC CONDR (NO.6) BARE	LF	7,645.000		115.000		330.000		2,150.000		10,240.000	
	620-7010	ELEC CONDR (NO.6) INSULATED	LF	5,430.000		230.000		660.000		4,300.000		10,620.000	
	620-7011	ELEC CONDR (NO.4) BARE	LF							45.000		45.000	
	620-7012	ELEC CONDR (NO.4) INSULATED	LF							90.000		90.000	
	620-7015	ELEC CONDR (NO.2) BARE	LF							45.000		45.000	
	620-7016	ELEC CONDR (NO.2) INSULATED	LF							90.000		90.000	
	623-7004	ITS GND BOX(PCAST) TY 1 (243648)W/APRN	EA	13.000								13.000	
	623-7041	REMOVE ITS GROUND BOX	EA	1.000								1.000	

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Estimate & Quantity Sheet

CONTROLLING PROJECT ID 0047-05-057 **DISTRICT** Dallas **COUNTY** Collin
HIGHWAY SH 5, SS 399

				0047-05-057		0047-05-058		0364-04-049		0364-04-051		TOTAL EST.	TOTAL FINAL
		CONTROL SECTION JOB											
		PROJECT ID		**A00138908**		**A00138912**		**A00059152**		**A00138911**			
		COUNTY		**Collin**		**Collin**		**Collin**		**Collin**			
		HIGHWAY		**SH 5**		**SH 5**		**SS 399**		**SS 399**			
ALT	**BID CODE**	**DESCRIPTION**	**UNIT**	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL		
	624-7001	GROUND BOX TY A (122311)	EA	4.000		2.000				3.000		9.000	
	624-7002	GROUND BOX TY A (122311)W/APRON	EA	23.000		3.000				5.000		31.000	
	624-7005	GROUND BOX TY C (162911)	EA	8.000								8.000	
	624-7006	GROUND BOX TY C (162911)W/APRON	EA	7.000								7.000	
	624-7007	GROUND BOX TY D (162922)	EA	2.000						2.000		4.000	
	624-7008	GROUND BOX TY D (162922)W/APRON	EA	6.000								6.000	
	628-7045	ELC SRV TY A 240/480 060(NS)SS(E)GC(U)	EA	2.000		1.000						3.000	
	628-7147	ELC SRV TY D 120/240 060(NS)SS(E)PS(U)	EA	2.000								2.000	
	636-7001	ALUMINUM SIGNS (TY A)	SF	27.000				36.000				63.000	
	636-7002	ALUMINUM SIGNS (TY G)	SF	120.250								120.250	
	636-7003	ALUMINUM SIGNS (TY O)	SF	1,277.750				737.250		375.000		2,390.000	
	644-7001	IN SM RD SN SUP&AM TY10BWG(1)SA(P)	EA	22.000		11.000		2.000		11.000		46.000	
	644-7004	IN SM RD SN SUP&AM TY10BWG(1)SA(T)	EA	7.000		11.000				4.000		22.000	
	644-7007	IN SM RD SN SUP&AM TY10BWG(1)SA(U)	EA	1.000								1.000	
	644-7009	IN SM RD SN SUP&AM TY10BWG(1)SB(P)	EA	10.000		3.000				4.000		17.000	
	644-7012	IN SM RD SN SUP&AM TY10BWG(1)SB(T)	EA	10.000		4.000		1.000		1.000		16.000	
	644-7028	IN SM RD SN SUP&AM TYS80(1)SA(T)	EA							1.000		1.000	
	644-7031	IN SM RD SN SUP&AM TYS80(1)SA(U)	EA	6.000				1.000		4.000		11.000	
	644-7032	IN SM RD SN SUP&AM TYS80(1)SA(U-1EXT)	EA	1.000								1.000	
	644-7034	IN SM RD SN SUP&AM TYS80(1)SA(U-BM)	EA	1.000						1.000		2.000	
	644-7042	IN SM RD SN SUP&AM TYS80(1)SB(U)	EA	1.000		1.000		2.000		2.000		6.000	
	644-7045	IN SM RD SN SUP&AM TYS80(1)SB(U-BM)	EA			1.000				1.000		2.000	
	644-7061	IN BRIDGE MNT CLEARANCE SGN ASSM(TY N)	EA	2.000								2.000	
	644-7062	IN BRIDGE MNT CLEARANCE SGN ASSM(TY S)	EA	2.000				2.000				4.000	
	644-7073	REMOVE SM RD SN SUP&AM	EA	35.000		26.000		25.000		27.000		113.000	
	644-7083	IN SRSS & AM (RAIL)(130 MPH)(P MOUNT)	EA	3.000		6.000		2.000		3.000		14.000	
	644-7085	IN SRSS & AM (RAIL)(130 MPH)(T MOUNT)	EA	7.000				1.000		2.000		10.000	
	644-7086	IN SRSS & AM (RAIL)(130 MPH)(U MOUNT)	EA	2.000				1.000				3.000	
	644-7087	IN SRSS & AM (RAIL)(130 MPH)(U-BM MNT)	EA	1.000								1.000	
	647-7001	INSTALL LRSS (STRUCT STEEL)	LB	1,161.600								1,161.600	
	647-7003	REMOVE LRSA	EA			2.000				7.000		9.000	
	650-7045	INS OH SN SUP(40 FT CANT)	EA	1.000						3.000		4.000	
	650-7079	INS OH SN SUP(70 FT BRDG)	EA	2.000								2.000	
	650-7124	INS OH SN SUP(115 FT BRDG)	EA					1.000				1.000	
	650-7164	INS OH SN SUP(155 FT BRDG)	EA					1.000				1.000	

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Estimate & Quantity Sheet

CONTROLLING PROJECT ID 0047-05-057 **DISTRICT** Dallas **COUNTY** Collin
HIGHWAY SH 5, SS 399

			CONTROL SECTION JOB	**0047-05-057**		**0047-05-058**		**0364-04-049**		**0364-04-051**		TOTAL EST.	TOTAL FINAL
			PROJECT ID	**A00138908**		**A00138912**		**A00059152**		**A00138911**			
			COUNTY	**Collin**		**Collin**		**Collin**		**Collin**			
			HIGHWAY	**SH 5**		**SH 5**		**SS 399**		**SS 399**			
ALT	**BID CODE**	**DESCRIPTION**	**UNIT**	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL		
	658-7012	INSTL DEL ASSM (D-SW)SZ 1(BRF)CTB	EA	117.000		34.000		59.000		79.000		289.000	
	658-7018	INSTL DEL ASSM (D-SW)SZ 1(BRF)GF2	EA	3.000						3.000		6.000	
	658-7031	INSTL DEL ASSM (D-SY)SZ 1(BRF)CTB	EA	66.000		36.000		51.000		84.000		237.000	
	658-7032	INSTL DEL ASSM (D-SY)SZ 1(BRF)CTB (BI)	EA							15.000		15.000	
	658-7036	INSTL DEL ASSM (D-SY)SZ 1(BRF)GF2	EA	6.000		3.000				12.000		21.000	
	662-7065	WK ZN PAV MRK REMOV (W)6"(BRK)	LF	17,035.000		930.000		2,260.000		11,310.000		31,535.000	
	662-7066	WK ZN PAV MRK REMOV (W)6"(DOT)	LF	945.000						180.000		1,125.000	
	662-7068	WK ZN PAV MRK REMOV (W)6"(SLD)	LF	66,570.000		17,130.000		12,440.000		34,940.000		131,080.000	
	662-7070	WK ZN PAV MRK REMOV (W)8"(DOT)	LF							200.000		200.000	
	662-7072	WK ZN PAV MRK REMOV (W)8"(SLD)	LF	14,810.000		1,710.000		2,580.000		4,755.000		23,855.000	
	662-7075	WK ZN PAV MRK REMOV (W)12"(SLD)	LF							210.000		210.000	
	662-7077	WK ZN PAV MRK REMOV (W)24"(SLD)	LF	2,020.000		54.000		229.000				2,303.000	
	662-7099	WK ZN PAV MRK REMOV (Y)6"(DOT)	LF	395.000								395.000	
	662-7100	WK ZN PAV MRK REMOV (Y)6"(SLD)	LF	75,670.000		16,370.000		13,920.000		39,920.000		145,880.000	
	666-7009	REFL PAV MRK TY I (W)6"(DOT)(100MIL)	LF	235.000				215.000		125.000		575.000	
	666-7018	REFL PAV MRK TY I (W)8"(DOT)(100MIL)	LF	535.000		180.000				155.000		870.000	
	666-7024	REFL PAV MRK TY I (W)8"(SLD)(100MIL)	LF	8,262.000		1,463.000		1,620.000		5,705.000		17,050.000	
	666-7114	REFL PAV MRK TY I (Y)8"(SLD)(100MIL)	LF	665.000								665.000	
	666-7266	RE PROFILE PM TY I(W)6"(SLD)(100MIL)	LF							10,755.000		10,755.000	
	666-7270	RE PROFILE PM TY I(Y)6"(SLD)(100MIL)	LF							10,160.000		10,160.000	
	666-7347	PAVEMENT SLER 6"	LF	36,940.000		12,360.000		15,715.000		45,264.000		110,279.000	
	666-7348	PAVEMENT SLER 8"	LF	9,462.000		1,643.000		1,620.000		5,860.000		18,585.000	
	666-7350	PAVEMENT SLER 12"	LF	590.000		146.000		1,572.000		1,985.000		4,293.000	
	666-7352	PAVEMENT SLER 24"	LF	1,900.000		195.000						2,095.000	
	666-7353	PAVEMENT SLER (ARROW)	EA	46.000		2.000		3.000		4.000		55.000	
	666-7354	PAVEMENT SLER (WORD)	EA	42.000		2.000		3.000		6.000		53.000	
	666-7355	PAVEMENT SLER (MED NOSE)	EA	9.000								9.000	
	666-7356	PAVEMENT SLER (DBL ARROW)	EA	3.000						1.000		4.000	
	666-7358	PAVEMENT SLER (UTURN ARROW)	EA	2.000						2.000		4.000	
	666-7359	PAVEMENT SLER (LN REDUCT ARROW)	EA					3.000				3.000	
	666-7360	PAVEMENT SLER (U-L ARROW)	EA	2.000								2.000	
	666-7365	PAVEMENT SLER (YLD TRI)	EA	16.000		4.000						20.000	
	666-7408	REFL PAV MRK TY I (W)6"(BRK)(100MIL)	LF	4,880.000		1,455.000		3,260.000		2,725.000		12,320.000	
	666-7411	REFL PAV MRK TY I (W)6"(SLD)(100MIL)	LF	16,900.000		5,545.000		6,135.000		8,170.000		36,750.000	
	666-7423	REFL PAV MRK TY I (Y)6"(SLD)(100MIL)	LF	14,925.000		5,360.000		6,105.000		8,260.000		34,650.000	

1 **REVISED 11/14/2024**

Estimate & Quantity Sheet

CONTROLLING PROJECT ID 0047-05-057 **DISTRICT** Dallas **COUNTY** Collin
HIGHWAY SH 5, SS 399

													TOTAL EST.	TOTAL FINAL
		CONTROL SECTION JOB		**0047-05-057**		**0047-05-058**		**0364-04-049**		**0364-04-051**				
		PROJECT ID		**A00138908**		**A00138912**		**A00059152**		**A00138911**				
		COUNTY		**Collin**		**Collin**		**Collin**		**Collin**				
		HIGHWAY		**SH 5**		**SH 5**		**SS 399**		**SS 399**				
ALT	**BID CODE**	**DESCRIPTION**	**UNIT**	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL			
	668-7012	PREFAB PM TY B (W)(6")(BRK)CONTRAST	LF							5,069.000			5,069.000	
	668-7086	PREFAB PM TY C (W)(12")(LNDP)	LF					557.000		595.000			1,152.000	
	668-7087	PREFAB PM TY C (W)(12")(SLD)	LF	210.000		146.000		1,015.000		1,390.000			2,761.000	
	668-7089	PREFAB PM TY C (W)(24")(SLD)	LF	1,900.000		195.000							2,095.000	
	668-7091	PREFAB PM TY C (W)(ARROW)	EA	46.000		2.000		3.000		4.000			55.000	
	668-7093	PREFAB PM TY C (W)(DBL ARROW)	EA	3.000						1.000			4.000	
	668-7096	PREFAB PM TY C (W)(UTURN ARROW)	EA	2.000						2.000			4.000	
	668-7098	PREFAB PM TY C (W)(U-LT ARROW)	EA	2.000									2.000	
	668-7100	PREFAB PM TY C (W)(LN REDUCT ARROW)	EA					3.000					3.000	
	668-7103	PREFAB PM TY C (W)(WORD)	EA	42.000		2.000		3.000		6.000			53.000	
	668-7111	PREFAB PM TY C (W)(36")(YLD TRI)	EA	16.000		4.000							20.000	
	668-7125	PREFAB PM TY C (Y)(12")(SLD)	LF	380.000									380.000	
	668-7129	PREFAB PM TY C (Y)(MED NOSE)	EA	9.000									9.000	
	672-7004	REFL PAV MRKR TY II-A-A	EA	35.000									35.000	
	672-7006	REFL PAV MRKR TY II-C-R	EA	684.000		163.000		416.000		1,100.000			2,363.000	
	677-7001	ELIM EXT PM & MRKS (4")	LF	9,393.000		1,520.000		3,630.000		4,630.000			19,173.000	
	677-7004	ELIM EXT PM & MRKS (8")	LF	2,180.000				795.000		300.000			3,275.000	
	677-7008	ELIM EXT PM & MRKS (24")	LF	283.000				33.000					316.000	
	677-7009	ELIM EXT PM & MRKS (ARROW)	EA	29.000									29.000	
	678-7002	PAV SURF PREP FOR MRK (6")	LF	36,940.000		12,360.000		15,715.000		45,264.000			110,279.000	
	678-7004	PAV SURF PREP FOR MRK (8")	LF	9,462.000		1,643.000		1,620.000		5,860.000			18,585.000	
	678-7006	PAV SURF PREP FOR MRK (12")	LF	590.000		146.000		1,572.000		1,985.000			4,293.000	
	678-7008	PAV SURF PREP FOR MRK (24")	LF	1,900.000		195.000							2,095.000	
	678-7009	PAV SURF PREP FOR MRK (ARROW)	EA	46.000		2.000		6.000		4.000			58.000	
	678-7010	PAV SURF PREP FOR MRK (DBL ARROW)	EA							1.000			1.000	
	678-7012	PAV SURF PREP FOR MRK (UTURN ARR)	EA	2.000						2.000			4.000	
	678-7013	PAV SURF PREP FOR MRK (U/LT ARROW)	EA	2.000									2.000	
	678-7016	PAV SURF PREP FOR MRK (WORD)	EA	40.000		2.000		3.000		6.000			51.000	
	678-7023	PAV SURF PREP FOR MRK (36")(YLD TRI)	EA	16.000		4.000							20.000	
	678-7024	PAV SURF PREP FOR MRK (MED NOSE)	EA	9.000									9.000	
	678-7033	PAV SURF PREP FOR MRK (RPM)	EA	719.000		163.000		416.000		1,100.000			2,398.000	
	680-7004	REMOVING TRAFFIC SIGNALS	EA	2.000				1.000					3.000	
	680-7005	INS HY TRF SIG (DPT SUP CNT & CAB)(ISO)	EA	3.000									3.000	
	681-7001	TEMP TRAF SIGNALS	EA	2.000				2.000					4.000	
	682-7001	VEH SIG SEC (12")LED(GRN)	EA	29.000									29.000	

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Estimate & Quantity Sheet

CONTROLLING PROJECT ID 0047-05-057 **DISTRICT** Dallas **COUNTY** Collin
HIGHWAY SH 5, SS 399

				0047-05-057		0047-05-058		0364-04-049		0364-04-051		TOTAL EST.	TOTAL FINAL
		CONTROL SECTION JOB											
		PROJECT ID		**A00138908**		**A00138912**		**A00059152**		**A00138911**			
		COUNTY		**Collin**		**Collin**		**Collin**		**Collin**			
		HIGHWAY		**SH 5**		**SH 5**		**SS 399**		**SS 399**			
ALT	**BID CODE**	**DESCRIPTION**	**UNIT**	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL		
	682-7002	VEH SIG SEC (12")LED(GRN ARW)	EA	22.000								22.000	
	682-7003	VEH SIG SEC (12")LED(YEL)	EA	33.000								33.000	
	682-7004	VEH SIG SEC (12")LED(YEL ARW)	EA	20.000								20.000	
	682-7005	VEH SIG SEC (12")LED(RED)	EA	33.000								33.000	
	682-7006	VEH SIG SEC (12")LED(RED ARW)	EA	28.000								28.000	
	682-7018	PED SIG SEC (LED)(COUNTDOWN)	EA	24.000								24.000	
	682-7042	BACKPLATE W/REF BRDR(3 SEC)(VENT)ALUM	EA	29.000								29.000	
	682-7043	BACKPLATE W/REF BRDR(4 SEC)(VENT)ALUM	EA	12.000								12.000	
	682-7044	BACKPLATE W/REF BRDR(5 SEC)(VENT)ALUM	EA	6.000								6.000	
	684-7033	TRF SIG CBL (TY A)(14 AWG)(7 CONDR)	LF	7,024.000								7,024.000	
	684-7046	TRF SIG CBL (TY A)(14 AWG)(20 CONDR)	LF	3,530.000								3,530.000	
	684-7079	TRF SIG CBL (TY C)(12 AWG)(2 CONDR)	LF	7,465.000								7,465.000	
	686-7033	INS TRF SIG PL AM(S)1 ARM(32')	EA	1.000								1.000	
	686-7035	INS TRF SIG PL AM(S)1 ARM(32')LUM	EA	1.000								1.000	
	686-7045	INS TRF SIG PL AM(S)1 ARM(44')	EA	1.000								1.000	
	686-7047	INS TRF SIG PL AM(S)1 ARM(44')LUM	EA	2.000								2.000	
	686-7051	INS TRF SIG PL AM(S)1 ARM(48')LUM	EA	1.000								1.000	
	686-7059	INS TRF SIG PL AM(S)1 ARM(55')LUM	EA	1.000								1.000	
	686-7063	INS TRF SIG PL AM(S)1 ARM(60')LUM	EA	1.000								1.000	
	686-7067	INS TRF SIG PL AM(S)1 ARM(65')LUM	EA	3.000								3.000	
	686-7091	INS TRF SIG PL AM(S)2 ARM(28-28')LUM	EA	1.000								1.000	
	687-7001	PED POLE ASSEMBLY	EA	13.000								13.000	
	688-7003	PED DETECTOR CONTROLLER UNIT	EA	3.000								3.000	
	740-7005	ANTI-GRAFFITI COATING (PERMNENT-TY II)	SF	54,677.000		33,276.000		16,071.000		32,599.000		136,623.000	
	4003-7001	TIP TESTING(DRILL SHAFT)	EA					5.000				5.000	
	6008-7004	RVDS (PRESENCE DET)(INSTALL ONLY)	EA	13.000								13.000	
	6008-7005	RVDS (ADVANCE DET)(INSTALL ONLY)	EA	13.000								13.000	
	6022-7001	RDWY LIGHTING ASSY (30 FT)(TY 1)	EA	3.000		2.000						5.000	
	6022-7002	RDWY LIGHTING ASSY (30 FT)(TY 2)	EA	18.000								18.000	
	6050-7001	RELOCATE EXIST GND MT COMM CABINET	EA							1.000		1.000	
	6050-7003	INSTALL GND MT COMM CABINET FOUNDATION	EA							1.000		1.000	
	6062-7001	CAMERA POLE STRUCT (PRECAST CONC)(50')	EA							1.000		1.000	
	14	PUBLIC UTILITY FORCE ACCT WORK (PART)	LS	1.000								1.000	
	18	LAW ENFORCEMENT: CONTRACTOR FORCE ACCOUNT WORK (PART)	LS	1.000								1.000	

1 **REVISED 11/14/2024**

Estimate & Quantity Sheet

CONTROLLING PROJECT ID 0047-05-057 **DISTRICT** Dallas **COUNTY** Collin
HIGHWAY SH 5, SS 399

														TOTAL EST.	TOTAL FINAL
			CONTROL SECTION JOB	**0047-05-057**		**0047-05-058**		**0364-04-049**		**0364-04-051**					
			PROJECT ID	**A00138908**		**A00138912**		**A00059152**		**A00138911**					
			COUNTY	**Collin**		**Collin**		**Collin**		**Collin**					
			HIGHWAY	**SH 5**		**SH 5**		**SS 399**		**SS 399**					
ALT	**BID CODE**	**DESCRIPTION**	**UNIT**	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL				
	18	EROSION CONTROL MAINTENANCE: CONTRACTOR FORCE ACCOUNT WORK (PART)	LS	1.000										1.000	
		SAFETY CONTINGENCY: CONTRACTOR FORCE ACCOUNT WORK (PART)	LS	1.000										1.000	
	31	MATERIALS FURNISHED BY CITY (PART)	LS	1.000										1.000	

1 **REVISED 11/14/2024**

100% PLANS SUBMITTAL

SUMMARY OF TRAFFIC CONTROL ITEMS

LOCATION	400	403	432	503	505	505	508	512	512	512	512	512	512	512	512	545	545	545
	7006	7001	7041	7002	7001	7003	7001	7001	7009	7010	7025	7033	7034	7049	7057	7058	7002	7004	7014
	CUT & RESTORING PAV	TEMPORARY SPL SHORING	RIPRAP (STONE PROTECTION) (12IN)	PORTABLE CHANGEABLE MESSAGE SIGN	TMA (STATIONARY)	TMA (MOBILE OPERATION)	CONSTRUCTING DETOURS	PORT CTB (FUR & INST) (SGL SLOPE) (TY 1)	PORT CTB (FUR & INST) (LOW PROF) (TY 1)	PORT CTB (FUR & INST) (LOW PROF) (TY 2)	PORT CTB (MOVE) (SGL SLP) (TY 1)	PORT CTB (MOVE) (LOW PROF) (TY 1)	PORT CTB (MOVE) (LOW PROF) (TY 2)	PORT CTB (REMOVE) (SGL SLP) (TY 1)	PORT CTB (REMOVE) (LOW PROF) (TY 1)	PORT CTB (REMOVE) (LOW PROF) (TY 2)	CRASH CUSH ATTEN (MOVE & RESET)	CRASH CUSH ATTEN (REMOVE)	CRASH CUSH ATTEN (INSTL) (S) (N) (TL3)
	SY	SF	CY	EA	DAY	DAY	SY	LF	LF	LF	LF	LF	LF	LF	LF	LF	EA	EA	EA
PHASE 3 STEP 2																			
CSJ: 0364-04-051																			
SHEET 1 OF 11																			
SHEET 2 OF 11											500	140	20	500	140	20	2	2	
SHEET 3 OF 11											1900	340		1900	340				
SHEET 4 OF 11											1580			1580					
CSJ: 0364-04-051 SUBTOTALS	0	0	0	0	0	0	0	0	0	0	3980	480	20	3980	480	20	2	2	0
CSJ: 0047-05-058																			
SHEET 4 OF 11											20			20			1	1	
SHEET 5 OF 11											180			180					
SHEET 6 OF 11											140			140					
SHEET 7 OF 11																			
CSJ: 0047-05-058 SUBTOTALS	0	0	0	0	0	0	0	0	0	0	340	0	0	340	0	0	1	1	0
CSJ: 0047-05-057																			
SHEET 7 OF 11																			
SHEET 8 OF 11																			
SHEET 9 OF 11																			
SHEET 10 OF 11																			
SHEET 11 OF 11																			
CSJ: 0047-05-057 SUBTOTALS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CSJ: 0364-04-049																			
SHEET 4 OF 11											400			400					
SHEET 5 OF 11																			
SHEET 6 OF 11							346				2180	380	20	2180	380	20	2	2	
SHEET 7 OF 11																	1	1	
CSJ: 0364-04-049 SUBTOTALS	0	0	0	0	0	0	346	0	0	0	2580	380	20	2580	380	20	3	3	0
PHASE 3 STEP 2 TOTALS	0	0	0	0	0	0	346	0	0	0	6900	860	40	6900	860	40	6	6	0
CSJ: 0364-04-051 GRAND TOTALS	0	0	0	0	0	0	0	5580	240	40	10300	480	20	3980	480	20	8	2	0
CSJ: 0047-05-058 GRAND TOTALS	0	1936	3	0	0	0	3218	720	0	0	640	0	0	340	0	0	2	1	1
CSJ: 0047-05-057 GRAND TOTALS	0	13457	0	0	0	0	12330	1100	2320	80	360	1660	160	1500	1700	40	2	1	2
CSJ: 0364-04-049 GRAND TOTALS	228	7043	0	0	0	0	7698	1000	0	0	5500	500	100	2580	380	60	9	3	4
PROJECT TOTAL	228	22436	3	8	1500	100	23246	8400	2560	120	16800	2640	280	8400	2560	120	21	7	7

1 REVISED 11/14/2024

NO.	DATE	REVISION	APPROVED

infraTECH
Engineers & Innovators, LLC
TBPE REGISTRATION NO. F-18368

Texas Department of Transportation

SH 5

QUANTITY SUMMARY
TRAFFIC CONTROL PLAN

SHEET 5 OF 6

DESIGN	FED.RD. DIV.NO.	FEDERAL-AID PROJECT NO.		HIGHWAY NO.
IEI	6	SEE TITLE SHEET		SH5, ETC.
GRAPHICS IEI	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK IEI	TEXAS	DAL	COLLIN	59
CHECK IEI	CONTROL	SECTION	JOB	
	0047	05	057, ETC.	

PLOT DRIVER: TXDOT_PDF_BW.pltcfg
USER: LBrister
FILE: SH5_TCP_QUANTITY.dgn
DATE: 10/1/2024
TIME: 10:18:35 AM
PENTABLE: 10181/5-SP399-SEGI.tbl
SCALE: 1:100

100% PLANS SUBMITTAL

SUMMARY OF REMOVAL ITEMS

LOCATION	100	104	104	104	104	104	104	104	104	105	105	170	496	496	496	496	496	496	496	496	496	542	542	544
	7002	7001	7006	7008	7010	7011	7013	7018	7036	7002	7007	7013	7002	7003	7004	7005	7006	7007	7008	7010	7019	7001	7004	7003
	PREPARING ROW	REMOV CONC (PAV)	REMOV CONC (RIPRAP)	REMOV CONC (MEDIANS)	REMOV CONC (PAVERS)	REMOV CONC (DRIVEWAYS)	REMOV CONC (SIDEWALK, RAMP OR SUP)	REMOV CONC (CURB OR CURB & GUTTER)	REMOV CONC (RAIL)	RMV (2"-6") TRT/UNTRT BASE & ASPH PAV	RMV (7"-11") TRT/UNTRT BASE & ASPH PAV	IRRIGATION SYSTEM (MISC)	REMOV STR (INLET)	REMOV STR (MANHOLE)	REMOV STR (SET)	REMOV STR (WINGWALL)	REMOV STR (HEADWALL)	REMOV STR (PIPE)	REMOV STR (BOX CULVERT)	REMOV STR (BRIDGE 100 - 499 FT LENGTH)	REMOV STR (RET WALL)	REMOVE METAL BEAM GUARD FENCE	RM MTL BM GD FENCE TRANS (THRIE-BEAM)	GUARDRAIL END TREATMENT (REMOVE)
	STA	SY	SY	SY	SY	SY	SY	LF	LF	SY	SY	LS	EA	EA	EA	EA	EA	LF	LF	EA	LF	LF	EA	EA
CSJ: 0364-04-051												1												
1 of 13	9							1120			761											112.5	1	1
2 of 13	12							562			1162													
3 of 13	12	840					33	1263	700		761		4					41				187.5	3	1
4 of 13	10	14082				256	189	1212	920		911		10					1253				1537.5		2
5 of 13	8	8630					546		360		761		7	4	1	1		1030			130	200	1	2
CSJ: 0364-04-051	51	23552	0	0	0	256	768	4157	1980	0	4356	1	21	4	1	1	0	2324	0	0	130	2037.5	5	6
CSJ: 0364-04-049																								
5 of 13	1	324						118			24													
7 of 13	12	4904						3866			4755		5					200	300					
8 of 13	12	11166						510			11166													
9 of 13	9	7792						191			7792													
CSJ: 0364-04-049	34	24186	0	0	0	0	0	4685	0	0	23737	0	5	0	0	0	0	200	300	0	0	0	0	0
CSJ: 0047-05-058																								
5 of 13	8	172					97				22				1	1			300					
6 of 13	7	4870				137	367			509	4060				6			404						
7 of 13	12	11960		10		200		1166		698	10643		2		4	5	5	367	200					
CSJ: 0047-05-058	27	17002	0	10	0	337	464	1166	0	1207	14725	0	2	0	11	6	5	771	500	0	0	0	0	0
CSJ: 0047-05-057																								
8 of 13	8					460				459					2			63						
9 of 13	12	5332	328			701	191			288	2723		2	1	2		2	509	279			625		3
10 of 13	12	9215									9215									4		725		6
11 of 13	11	13167		616		180	561	2421		94	11739		3		3	1	1	1005				75		2
12 of 13	12	15188		135	894	1475	1206	3477		37	10867		8	3				888						
13 of 13	8	10292		32		817	518	3684		134	10046		6	4				1160						
CSJ: 0047-05-057	63	53194	328	783	894	3633	2476	9582	0	1012	44590	0	19	8	7	1	3	3625	279	4	0	1425	0	11
PROJECT TOTALS	175	117934	328	793	894	4226	3708	19590	1980	2219	87408	1	47	12	19	8	8	6920	1079	4	130	3462.5	5	17

NO.	DATE	REVISION	APPROVED

infraTECH
Engineers & Innovators, LLC
TBPE REGISTRATION NO. F-18368

Texas Department of Transportation

SH 5

QUANTITY SUMMARY REMOVAL

N.T.S. SHEET 1 OF 1

DESIGN	FED.RD. DIV.NO.	FEDERAL-AID PROJECT NO.		HIGHWAY NO.
IEI	6	SEE TITLE SHEET		SH5, ETC.
GRAPHICS IEI	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK IEI	TEXAS	DAL	COLLIN	64
CHECK IEI	CONTROL	SECTION	JOB	
	0047	05	057, ETC.	

1 REVISED 11/14/2024

PLOT DRIVER: TXDOT_PDF_BW.pltcfg
USER: malvarez
FILE: SH5RMQUANTITIES.dgn
DATE: 11/13/2024
TIME: 1:35:14 PM
PENTABLE: 10IBII5-SP399-SEGI.tbl
SCALE: 1:00

100% PLANS SUBMITTAL

SUMMARY OF RETAINING WALL ITEMS CSJ: 0364-04-051

ITEM					247-7176	403-7001	410-7001	416-7004	416-7007	419-7001	420-7044	423-7001	423-7016	423-7019	423-7023	432-7001	432-7012	432-7013	450-7006	450-7024	450-7036	450-7062	556-7006	740-7005
DESCRIPTION					FL BS (CMP IN PLC) (TYA GR1-2) (FNAL POS)	TEMPORARY SPL SHORING	SOIL NAIL ANCHORS	DRILL SHAFT (24 IN)	DRILL SHAFT (42 IN)	SOUND WALL	CL C CONC (FOOTING)	RETAINING WALL (MSE)	RETAINING WALL (CAST-IN-PLACE)	RETAINING WALL (DRILL SHAFT) (FASCIA)	RETAINING WALL (SOIL NAIL) (FASCIA)	RIPRAP (CONC) (4 IN)	RIPRAP (CONC) (FLUME)	RIPRAP (MOW STRIP) (4 IN)	RAIL (TY T222)	RAIL (TY SSTR)	RAIL (TY C402)	RAIL (HANDRAIL) (TY E)	PIPE UNDER DRAINS (TY 6) (6")	ANTI - GRAFFITI COATING (PERMNENT -TY II)
					CY	SF	LF	LF	LF	SF	CY	SF	SF	SF	SF	CY	CY	CY	LF	LF	LF	LF	LF	SF
S39900	SHEET	1	OF	1								2,375						8			300		301	1,673
S39901	SHEET	1	OF	1								3,142						6			231		238	2,463
S39901A	SHEET	1	OF	1		5,924						3,613					13						288	2,516
S39902	SHEET	1	OF	1		1,550						1,187					2						91	970
S39903	SHEET	1	OF	2			9,268								5,540					400				4,477
S39903	SHEET	2	OF	2			8,622								5,149					290				4,435
S39904	SHEET	1	OF	1		1,116						814											93	617
S39907	SHEET	1	OF	2		802						1,665						5			167		168	1,307
S39907	SHEET	2	OF	2								2,148						6			217		223	1,693
NBFR101	SHEET	1	OF	2								4,678						10			380		381	3,904
NBFR101	SHEET	2	OF	2						475		2,085						7	66		179		246	1,594
NBFR102	SHEET	1	OF	2		4,691				4,000			2,855			64	20						400	1,574
NBFR102	SHEET	2	OF	2		4,691				2,400			1,782			39	12						240	826
NBFR103	SHEET	1	OF	2						1,895		3,620						10	270		130		401	2,814
NBFR103	SHEET	2	OF	2								259						1			17		17	226
SB513	SHEET	1	OF	2								945								68			68	809
SB513	SHEET	2	OF	2								995								146			148	701
TOTALS					**0**	**18,774**	**17,890**	**0**	**0**	**8,770**	**0**	**27,526**	**4,637**	**0**	**10,689**	**103**	**47**	**53**	**336**	**904**	**1,621**	**0**	**3,303**	**32,599**

SUMMARY OF RETAINING WALL ITEMS CSJ: 0364-04-049

ITEM					247-7176	403-7001	410-7001	416-7004	416-7007	419-7001	420-7044	423-7001	423-7016	423-7019	423-7023	432-7001	432-7012	432-7013	450-7006	450-7024	450-7036	450-7062	556-7006	740-7005
DESCRIPTION					FL BS (CMP IN PLC) (TYA GR1-2) (FNAL POS)	TEMPORARY SPL SHORING	SOIL NAIL ANCHORS	DRILL SHAFT (24 IN)	DRILL SHAFT (42 IN)	SOUND WALL	CL C CONC (FOOTING)	RETAINING WALL (MSE)	RETAINING WALL (CAST-IN-PLACE)	RETAINING WALL (DRILL SHAFT) (FASCIA)	RETAINING WALL (SOIL NAIL) (FASCIA)	RIPRAP (CONC) (4 IN)	RIPRAP (CONC) (FLUME)	RIPRAP (MOW STRIP) (4 IN)	RAIL (TY T222)	RAIL (TY SSTR)	RAIL (TY C402)	RAIL (HANDRAIL) (TY E)	PIPE UNDER DRAINS (TY 6) (6")	ANTI - GRAFFITI COATING (PERMNENT -TY II)
					CY	SF	LF	LF	LF	SF	CY	SF	SF	SF	SF	CY	CY	CY	LF	LF	LF	LF	LF	SF
SB01	SHEET	1	OF	2		2,914						9,317								355			358	7,985
SB01	SHEET	2	OF	2		763						2,988								248			249	1,930
SR01	SHEET	1	OF	1		2,005						4,289											218	3,838
NB01	SHEET	1	OF	1								2,827								227			233	2,318
TOTALS					**0**	**5,682**	**0**	**0**	**0**	**0**	**0**	**19,421**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**830**	**0**	**0**	**1,058**	**16,071**

1 **REVISED 11/14/2024**

HDR Engineering, Inc.
Firm Registration No. F-754
17111 Preston Road, Suite 300
Dallas, Texas 75248
972.960.4400

Texas Department of Transportation

SH5

RETAINING WALL SUMMARY

N.T.S

DESIGN	FED.RD. DIV.NO.	FEDERAL-AID PROJECT NO.		HIGHWAY NO.
AKS	6	SEE TITLE SHEET		SH5, ETC.
GRAPHICS AKS	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK BAV	TEXAS	DAL	COLLIN	74
CHECK JMD	CONTROL	SECTION	JOB	
	0047	05	057, ETC.	

PLOT DRIVER: TXDOT_PDF_BW.pltcfg
USER: ASRINIVASA
FILE: SH5GTY04.dgn
DATE: 11/14/2024
TIME: 4:02:13 PM
PENTABLE: 10181/5-SP399-SEGI.tbl
SCALE: 1:100

100% PLANS SUBMITTAL

SUMMARY OF RETAINING WALL ITEMS CSJ: 0047-05-058

ITEM					247-7176	403-7001	410-7001	416-7004	416-7007	419-7001	420-7044	423-7001	423-7016	423-7019	423-7023	432-7001	432-7012	432-7013	450-7006	450-7024	450-7036	450-7062	556-7006	740-7005
DESCRIPTION					FL BS (CMP IN PLC)(TYA GR1-2)(FNAL POS)	TEMPORARY SPL SHORING	SOIL NAIL ANCHORS	DRILL SHAFT (24 IN)	DRILL SHAFT (42 IN)	SOUND WALL	CL C CONC (FOOTING)	RETAINING WALL (MSE)	RETAINING WALL (CAST-IN-PLACE)	RETAINING WALL (DRILL SHAFT) (FASCIA)	RETAINING WALL (SOIL NAIL) (FASCIA)	RIPRAP (CONC)(4 IN)	RIPRAP (CONC) (FLUME)	RIPRAP (MOW STRIP)(4 IN)	RAIL (TY T222)	RAIL (TY SSTR)	RAIL (TY C402)	RAIL (HANDRAIL) (TY E)	PIPE UNDER DRAINS (TY 6)(6")	ANTI - GRAFFITI COATING (PERMNENT -TY II)
					CY	SF	LF	LF	LF	SF	CY	SF	SF	SF	SF	CY	CY	CY	LF	LF	LF	LF	LF	SF
S39907	SHEET	1	OF	2		1,633						1,555				3		4			144		146	1,209
S39909	SHEET	1	OF	1								1,116				4					155		161	777
S39910	SHEET	1	OF	1								3,976						10			372		375	3,149
NBFR103	SHEET	2	OF	2								1,322						3			120		122	1,033
NBFR201	SHEET	1	OF	2		4,094			931	5,250	229			4,374		0	18							3,119
NBFR201	SHEET	2	OF	2		1,459			418	2,515	120			1,989			10							976
NBFR202	SHEET	2	OF	3		2,519						5,930								343			343	5,243
NBFR202	SHEET	3	OF	3								1,836								235			235	1,363
NBFR210	SHEET	2	OF	2		609			144		43			489			4							218
SB511	SHEET	1	OF	1								2,275						6		202			208	1,749
SB512	SHEET	1	OF	1								489						1					40	362
SB513	SHEET	1	OF	2								4,926						6		247			253	4,411
SB501	SHEET	1	OF	2								4,221								372			373	1,759
SB501	SHEET	2	OF	2		1,128						4,637								177			184	3,405
SB502	SHEET	1	OF	1		295						667											32	549
SB503	SHEET	1	OF	1		915						6,040								350			357	3,765
NW01	SHEET	1	OF	1				120		1,500	35					9	5							
SWALL0	SHEET	1	OF	1									409									110		189
TOTALS					**0**	**12,652**	**0**	**120**	**1,493**	**9,265**	**427**	**38,990**	**409**	**6,852**	**0**	**16**	**37**	**30**	**0**	**1,926**	**791**	**110**	**2,829**	**33,276**

1 **REVISED 11/14/2024**

HDR Engineering, Inc.
Firm Registration No. F-754
17111 Preston Road, Suite 300
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972.960.4400

SH5

RETAINING WALL SUMMARY

N.T.S

DESIGN	FED.RD. DIV.NO.	FEDERAL-AID PROJECT NO.		HIGHWAY NO.
AKS	6	SEE TITLE SHEET		SH5, ETC.
GRAPHICS AKS	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK BAV	TEXAS	DAL	COLLIN	75
CHECK JMD	CONTROL	SECTION	JOB	
	0047	05	057, ETC.	

PLOT DRIVER: TXDOT_PDF_BW.pltcfg PENTABLE: I08II5-SP399-SEGI.tbl
USER: ASRINIVASA DATE: II/14/2024 TIME: 4:06:22 PM SCALE: 1:100
FILE: SH50TY04A.dgn

100% PLANS SUBMITTAL

SUMMARY OF RETAINING WALL ITEMS CSJ: 0047-05-057

ITEM					247-7176	403-7001	410-7001	416-7004	416-7007	419-7001	420-7044	423-7001	423-7016	423-7019	423-7023	432-7001	432-7012	432-7013	450-7006	450-7024	450-7036	450-7062	556-7006	740-7005
DESCRIPTION					FL BS (CMP IN PLC)(TYA GR1-2)(FNAL POS)	TEMPORARY SPL SHORING	SOIL NAIL ANCHORS	DRILL SHAFT (24 IN)	DRILL SHAFT (42 IN)	SOUND WALL	CL C CONC (FOOTING)	RETAINING WALL (MSE)	RETAINING WALL (CAST-IN-PLACE)	RETAINING WALL (DRILL SHAFT) (FASCIA)	RETAINING WALL (SOIL NAIL) (FASCIA)	RIPRAP (CONC)(4 IN)	RIPRAP (CONC) (FLUME)	RIPRAP (MOW STRIP)(4 IN)	RAIL (TY T222)	RAIL (TY SSTR)	RAIL (TY C402)	RAIL (HANDRAIL) (TY E)	PIPE UNDER DRAINS (TY 6)(6")	ANTI - GRAFFITI COATING (PERMNENT -TY II)
					CY	SF	LF	LF	LF	SF	CY	SF	SF	SF	SF	CY	CY	CY	LF	LF	LF	LF	LF	SF
S39911	SHEET	1	OF	1		3,825						3,748									234		275	2,897
S39915	SHEET	1	OF	2	1,364							8,371						10			375		380	7,567
S39915	SHEET	2	OF	2	1,625							5,581						9			359		360	4,675
S39915A	SHEET	1	OF	1								1,609						2			125		125	1,106
S39916	SHEET	1	OF	1		183						920											38	580
S39917	SHEET	1	OF	1								1,716						3		101			110	907
STE01	SHEET	1	OF	1								740						3			152		153	417
STE03	SHEET	1	OF	1		799						1,156						3			144		111	679
NBFR202	SHEET	1	OF	3		8,747						7,016								409			409	5,843
NBFR202	SHEET	2	OF	3		1,057						1,283								58			58	1,167
NBFR210	SHEET	1	OF	2		5,441			626		250			3,624		23	19							2,420
NBFR210	SHEET	2	OF	2		1,632			260		74			1,041			6							658
NBFR203	SHEET	1	OF	2								4,837						10		400			402	4,007
NBFR203	SHEET	2	OF	2								2,135						7		260			261	1,614
NBFR204	SHEET	1	OF	1								1,485						430		160			166	1,148
NBFR205	SHEET	1	OF	1								254											37	181
NBFR301	SHEET	1	OF	2								5,434								385			385	4,655
NBFR301	SHEET	2	OF	2								494								108			109	275
NBFR302	SHEET	1	OF	1								6,614						10			370		376	4,779
NBFR303	SHEET	1	OF	1								1,072											95	289
RNX101	SHEET	1	OF	1								789						4		120			126	538
RNX102	SHEET	1	OF	1								214						1					39	138
RNX103	SHEET	1	OF	1								418						2		50			57	307
WL01	SHEET	1	OF	2		3,514						3,049						10			380		381	2,268
WL01	SHEET	2	OF	2		4,017						4,378						11			430		430	3,495
CEM	SHEET	1	OF	2		3,270							948				9						231	948
CEM	SHEET	2	OF	2		2,375							916				9						220	916
SWALL1	SHEET	1	OF	1									523									160		203
TOTALS					**2,989**	**34,860**	**0**	**0**	**886**	**0**	**324**	**63,313**	**2,387**	**4,665**	**0**	**23**	**43**	**515**	**0**	**2,051**	**2,569**	**160**	**5,334**	**54,677**

PLOT DRIVER: TXDOT_PDF_BW.pltcfg PENTABLE: I08II5-SP399-SEG1.tbl
USER: ASRINIVASA DATE: 11/14/2024 TIME: 4:07:50 PM SCALE: 1:100
FILE: SH5QTY04B.dgn

1 REVISED 11/14/2024

HDR Engineering, Inc.
Firm Registration No. F-754
17111 Preston Road, Suite 300
Dallas, Texas 75248
972.960.4400

Texas Department of Transportation

SH5

RETAINING WALL SUMMARY

N.T.S

SHEET 3 OF 3

DESIGN	FED.RD. DIV.NO.	FEDERAL-AID PROJECT NO.		HIGHWAY NO.
AKS	6	SEE TITLE SHEET		SH5, ETC.
GRAPHICS AKS	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK BAV	TEXAS	DAL	COLLIN	76
CHECK JMD	CONTROL	SECTION	JOB	
	0047	05	057, ETC.	

100% PLANS SUBMITTAL

	SUMMARY OF STORM SEWER & CULVERT ITEMS														
ITEM NO.	402 7001	432 7038	432 7043	462 7012	462 7013	462 7021	462 7035	464 7003	464 7005	464 7007	464 7009	464 7010	464 7011	464 7012	464 7032
SHEET NO.	TRENCH EXCAVATION PROTECTION	RIPRAP (STONE COMMON) (GROUT) (12 IN)	RIPRAP (STONE PROTECTION) (18IN)	CONC BOX CULV (6FTX4FT)	CONC BOX CULV (6FTX5FT)	CONC BOX CULV (8FTX4FT)	CONC BOX CULV (10FTX7FT)	RC PIPE (CL III) (18 IN)	RC PIPE (CL III) (24 IN)	RC PIPE (CL III) (30 IN)	RC PIPE (CL III) (36 IN)	RC PIPE (CL III) (42 IN)	RC PIPE (CL III) (48 IN)	RC PIPE (CL III) (54 IN)	RC PIPE (CL V) (18 IN)
	LF	CY	CY	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF
CSJ: 0364-04-051															
SH-5 DRAINAGE P&P 01 OF 16	0														
SH-5 DRAINAGE P&P 02 OF 16	8								8						
SH-5 DRAINAGE P&P 03 OF 16	121								121						
SH-5 DRAINAGE P&P 04 OF 16	2029		20						1352	23				644	38
S399 DRAINAGE P&P 05 OF 16	441								487	290					
CSJ TOTAL	**2599**	**0**	**20**	**0**	**0**	**0**	**0**	**0**	**1968**	**313**	**0**	**0**	**0**	**644**	**38**
CSJ: 0364-04-049															
PROPOSED CULVERT GG 01 OF 16	297		78			315							12		
SH-5 DRAINAGE P&P 05 OF 16	45								45						
SH-5 DRAINAGE P&P 06 OF 16	768								377	202		125			
SH-5 DRAINAGE P&P 07 OF 16	995								953	157					
CSJ TOTAL	**2105**	**0**	**78**	**0**	**0**	**315**	**0**	**0**	**1375**	**359**	**0**	**125**	**12**	**0**	**0**
CSJ: 0047-05-057															
S399 DRAINAGE P&P 07 OF 16	1243								2006	80					
S399 DRAINAGE P&P 08 OF 16	582		12						1724						4
S399 DRAINAGE P&P 09 OF 16	95		33		347				160						14
S399 DRAINAGE P&P 10 OF 16	802		4	419	174				542	48	74	84			
S399 DRAINAGE P&P 11 OF 16	960								664		609				
S399 DRAINAGE P&P 12 OF 16	596								207		497				
S399 DRAINAGE P&P 13 OF 16	1249								658	183	639				
S399 DRAINAGE P&P 14 OF 16	1491								250		509	158	427		
S399 DRAINAGE P&P 15 OF 16	468							26	118	103	196				
S399 DRAINAGE P&P 16 OF 16	72							90							
PROP BRIDGE CL CULVERT STEWART RD	182	263					639								
CSJ TOTAL	**7740**	**263**	**49**	**419**	**521**	**0**	**639**	**116**	**6329**	**414**	**2524**	**242**	**427**	**0**	**18**
CSJ: 0047-05-058															
S399 DRAINAGE P&P 05 OF 16	1453								1027	1003					
S399 DRAINAGE P&P 06 OF 16	1483		4						1091	643		445			23
S399 DRAINAGE P&P 07 OF 16	38								106						
CSJ TOTAL	**2974**	**0**	**4**	**0**	**0**	**0**	**0**	**0**	**2224**	**1646**	**0**	**445**	**0**	**0**	**23**
PROJECT TOTAL	15418	263	151	419	521	315	639	116	11896	2732	2524	812	439	644	79

1 REVISED 11/14/2024

NO.	DATE	REVISION	APPROVED

CP&Y
TEXAS REGISTERED ENGINEERING FIRM F-1741

Texas Department of Transportation

SH 5

SUMMARY OF QUANTITIES DRAINAGE

SHEET 1 OF 4

DESIGN	FED.RD. DIV.NO.	FEDERAL-AID PROJECT NO.		HIGHWAY NO.
GRAPHICS	6	SEE TITLE SHEET		SH5, ETC.
	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK	TEXAS	DAL	COLLIN	81
CHECK	CONTROL	SECTION	JOB	
	0047	05	057, ETC.	

PLOT DRIVER: TXDOT_PDF_BW.pltcfg PENTABLE: I08II5-SP399-SEGI.tbl
USER: SteelDE DATE: II/14/2024 TIME: I0:5I:20 AM SCALE: I:I
FILE: CPY DRAINAGE STORM SEWER SUMMARIES

100% PLANS SUBMITTAL

	SUMMARY OF STORM SEWER & CULVERT ITEMS													
ITEM NO.	465 7071	465 7072	465 7074	465 7076	465 7077	465 7126	465 7127	465 7128	465 7130	465 7146	465 7147	465 7148	465 7160	465 7162
SHEET NO.	INLET (COMPL) (PSL) (RC)(4FTX4FT)	INLET (COMPL) (PSL) (RC)(3FTX5FT)	INLET (COMPL) (PSL) (RC)(5FTX5FT)	INLET (COMPL) (PSL)(RC) (6FTX6FT)	INLET (COMPL) (PSL)(RC) (8FTX8FT)	INLET (COMPL) (PSL)(FG) (3FTX3FT-3FTX3FT)	INLET (COMPL) (PSL)(FG) (4FTX4FT-3FTX3FT)	INLET (COMPL) (PSL)(FG) (4FTX4FT-4FTX4FT)	INLET (COMPL) (PSL)(FG) (3FTX5FT-3FTX5FT)	INLET (COMPL) (PSL)(SFG) (3FTX3FT-3FTX3FT)	INLET (COMPL) (PSL)(SFG) (4FTX4FT-4FTX4FT)	INLET (COMPL) (PSL)(SFG) (3FTX5FT-3FTX5FT)	INLET (COMPL) (PAZD)(FG) (4FTX4FT-4FTX4FT)	INLET (COMPL) (PAZD)(FG) (5FTX5FT-4FTX4FT)
	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA
CSJ: 0364-04-051														
SH-5 DRAINAGE P&P 01 OF 16														
SH-5 DRAINAGE P&P 02 OF 16									1					
SH-5 DRAINAGE P&P 03 OF 16												1		
SH-5 DRAINAGE P&P 04 OF 16				1		3				1		1		
S399 DRAINAGE P&P 05 OF 16						1		1				1		
CSJ TOTAL	**0**	**0**	**0**	**1**	**0**	**4**	**0**	**1**	**1**	**1**	**0**	**3**	**0**	**0**
CSJ: 0364-04-049														
PROPOSED CULVERT GG 01 OF 16														
SH-5 DRAINAGE P&P 05 OF 16												1		
SH-5 DRAINAGE P&P 06 OF 16												3		
SH-5 DRAINAGE P&P 07 OF 16	1											6		
CSJ TOTAL	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**10**	**0**	**0**
CSJ: 0047-05-057														
S399 DRAINAGE P&P 07 OF 16	3					3		1				1		
S399 DRAINAGE P&P 08 OF 16	3											1		
S399 DRAINAGE P&P 09 OF 16					1									
S399 DRAINAGE P&P 10 OF 16					2	1								1
S399 DRAINAGE P&P 11 OF 16		1				1								
S399 DRAINAGE P&P 12 OF 16														
S399 DRAINAGE P&P 13 OF 16														
S399 DRAINAGE P&P 14 OF 16					1						1			
S399 DRAINAGE P&P 15 OF 16						2								
S399 DRAINAGE P&P 16 OF 16														
PROP BRIDGE CL CULVERT STEWART RD														
CSJ TOTAL	**6**	**1**	**0**	**0**	**4**	**7**	**0**	**1**	**0**	**0**	**1**	**2**	**0**	**1**
CSJ: 0047-05-058														
S399 DRAINAGE P&P 05 OF 16								1					1	
S399 DRAINAGE P&P 06 OF 16			2			5	1						1	
S399 DRAINAGE P&P 07 OF 16												1		
CSJ TOTAL	**0**	**0**	**2**	**0**	**0**	**5**	**1**	**1**	**0**	**0**	**0**	**1**	**2**	**0**
PROJECT TOTAL	7	1	2	1	4	16	1	3	1	1	1	16	2	1

1 REVISED 11/14/2024

NO.	DATE	REVISION	APPROVED

CP&Y
TEXAS REGISTERED ENGINEERING FIRM F-1741

Texas Department of Transportation
© 2024

SH 5

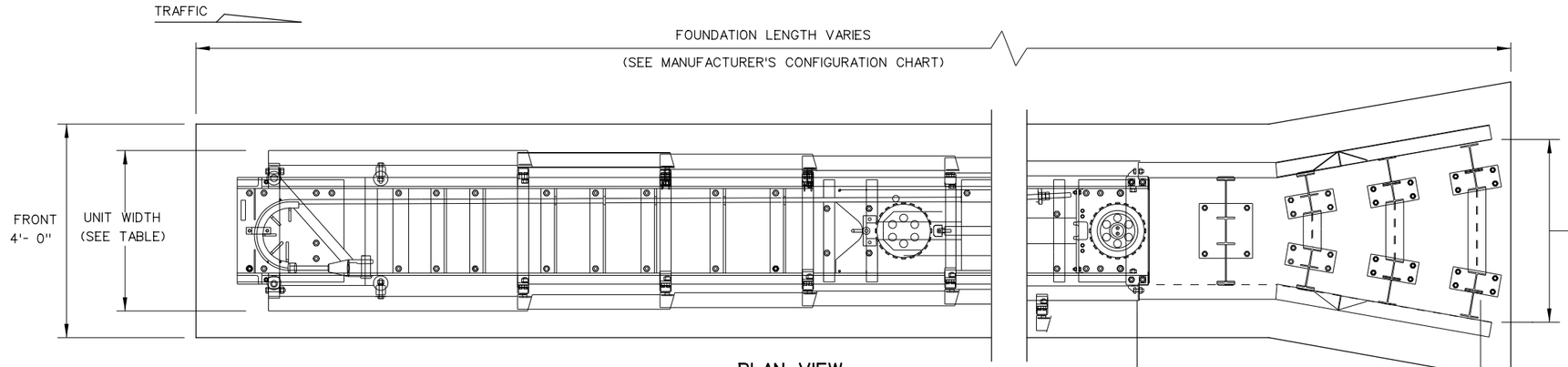
SUMMARY OF QUANTITIES DRAINAGE

SHEET 3 OF 4

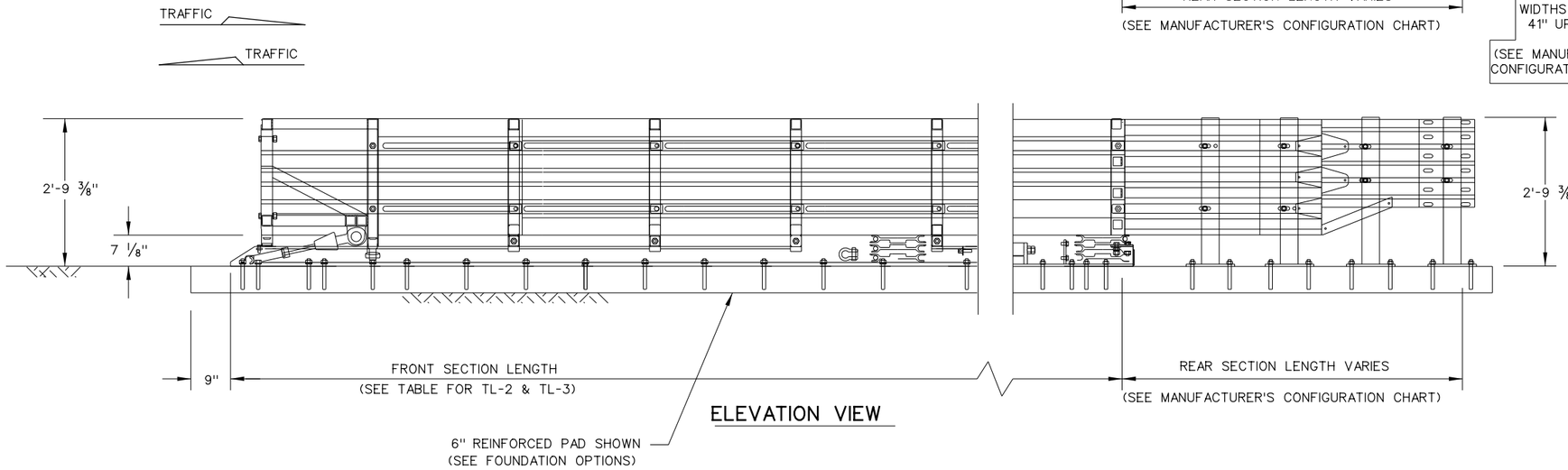
DESIGN	FED.RD. DIV.NO.	FEDERAL-AID PROJECT NO.		HIGHWAY NO.
	6	SEE TITLE SHEET		SH5, ETC.
GRAPHICS	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK	TEXAS	DAL	COLLIN	83
CHECK	CONTROL	SECTION	JOB	
	0047	05	057, ETC.	

PLOT DRIVER: TXDOT_PDF_BW.pltcfg PENTABLE: I08II5-SP399-SEGI.tbl
USER: SteelDE DATE: II/14/2024 TIME: I0:5I:2I AM SCALE: I:I
FILE: CPY DRAINAGE STORM SEWER SUMMARIES

DATE: 11/14/2024
FILE: C:\Users\srinivasa\Downloads\smtcw16.dgn



PLAN VIEW



ELEVATION VIEW

GENERAL NOTES

1. FOR SPECIFIC INFORMATION REGARDING INSTALLATION AND TECHNICAL GUIDANCE OF THE SYSTEM, CONTACT: WORK AREA PROTECTION, CORP. AT (800) 327-4417, OR (630) 377-9100.
2. FOR BI-DIRECTIONAL TRAFFIC, APPROPRIATE TRANSITION PANELS WILL BE REQUIRED.
3. ADDITIONAL DETAILS FOR THE TRANSITION OPTIONS AND FOUNDATION OPTIONS WILL BE SHOWN ON THE MANUFACTURER'S SHOP DRAWINGS FURNISHED TO THE ENGINEER.
4. CONCRETE SHALL BE CLASS "S" WITH A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI.
5. MAXIMUM PERMISSIBLE CROSS-SLOPE IS 8%.
6. THE INSTALLATION AREA SHOULD BE FREE FROM CURBS, ELEVATED OBJECTS, OR DEPRESSIONS.
7. THE SCI100GM & SCI70GM SYSTEMS SHOULD BE APPROXIMATELY PARALLEL WITH THE BARRIER OR C |OF MERGING BARRIERS.

NOTE: FOR ATTACHMENT AND TRANSITIONS TO OTHER SHAPES, BARRIERS RAILINGS AND BI-DIRECTIONAL TRAFFIC FLOWS ARE AVAILABLE. (SEE MANUFACTURER'S PRODUCT MANUAL)

NOTE: SIDE PANELS CAN TRAVEL 30" BEYOND THE LAST TERMINAL BRACE AT THE REAR OF THE CUSHION. ALL OBJECTS THAT MAY INTERFERE WITH THIS MOTION CAN AFFECT PERFORMANCE OF AND MAY CAUSE UNDUE DAMAGE TO THE CRASH CUSHION.

WIDE TRANSITION LENGTHS		
GORE WIDTH	TL-2 OVERALL SYSTEM LENGTH	TL-3 OVERALL SYSTEM LENGTH
41"	20'-1"	28'-1"
48"	21'-10"	29'-10"
55"	23'-5"	31'-5"
60"	24'-7"	32'-7"
68"	26'-6"	34'-6"
69"	26'-8"	34'-8"
81"	29'-7"	37'-7"
88"	31'-2"	39'-2"
94"	32'-7"	40'-7"
100"	34'-1"	42'-1"
107"	35'-8"	43'-8"
112"	36'-11"	44'-11"
120"	38'-10"	46'-10"
126"	40'-2"	48'-2"
133"	41'-11"	49'-11"

FOUNDATION OPTIONS
6" Reinforced Concrete (5 1/2" Anchor Embedment)
8" Unreinforced Concrete (5 1/2" Anchor Embedment)
3" Min. Asphalt over 3" Min. Concrete (16 1/2" Anchor Embed.)
6" Asphalt over 6" Compact Subbase (16 1/2" Anchor Embed.)
8" Minimum Asphalt (16 1/2" Anchor Embedment)

FOR STEEL PLACEMENT IN CONCRETE FOUNDATIONS, SEE MANUFACTURER'S PRODUCT MANUAL.

TRANSITION OPTIONS
Concrete Vertical Wall
Concrete Traffic Barriers
Guardrail (W-Beam)
Guardrail (Thrie-Beam)

TRANSITION TYPES ARE SHOWN ELSEWHERE ON THE PLANS (I.E. ATTENUATOR LOCATION DETAILS OR IN THE GENERAL NOTES).

FOR BI-DIRECTIONAL TRANSITION PANEL AND END SHOE DETAILS, SEE MANUFACTURER'S PRODUCT MANUAL.

MODEL (WIDE)	TEST LEVEL	FRONT SECTION LENGTH	UNIT WIDTH	FOUNDATION LENGTH	GORE WIDTH
SCI70GM	TL-2	13'-6"	2'-10 5/8"	OVERALL LENGTH PLUS 1'-6"	41" TO 133"
SCI100GM	TL-3	21'-6"	3'-1 1/2"	OVERALL LENGTH PLUS 1'-6"	41" TO 133"

SYSTEM AND PAD LENGTHS VARY DEPENDING ON BACKUP TYPE.

1 **ADDED 11/14/2024**

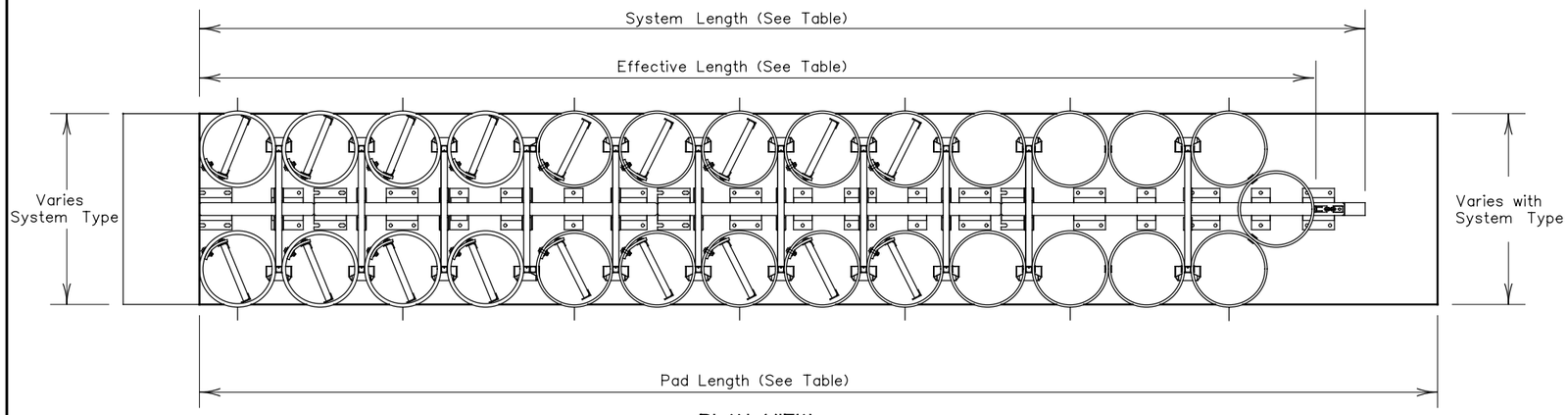
LOW MAINTENANCE

Texas Department of Transportation — Design Division Standard

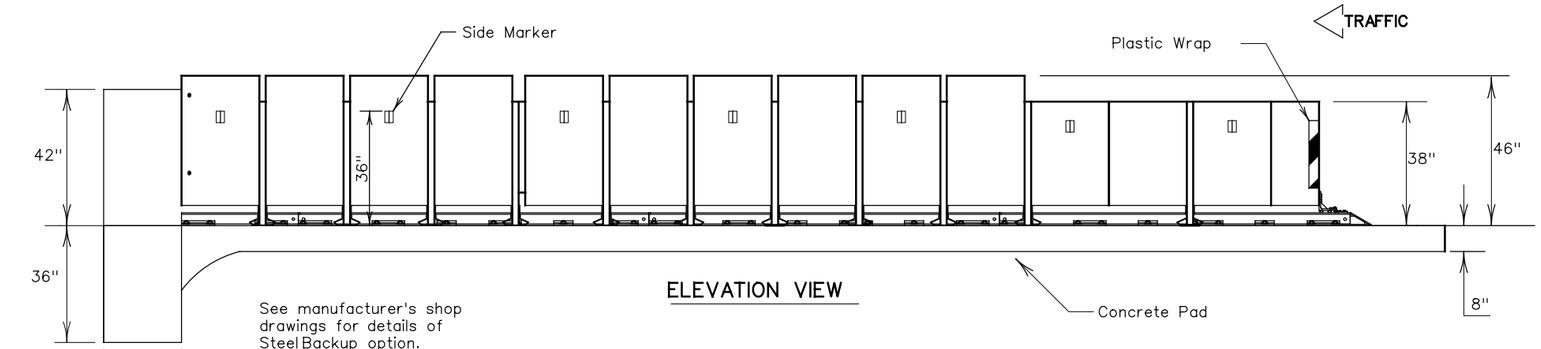
WORK AREA PROTECTION CORP (SMART-WIDE)

SMTC(W)-16

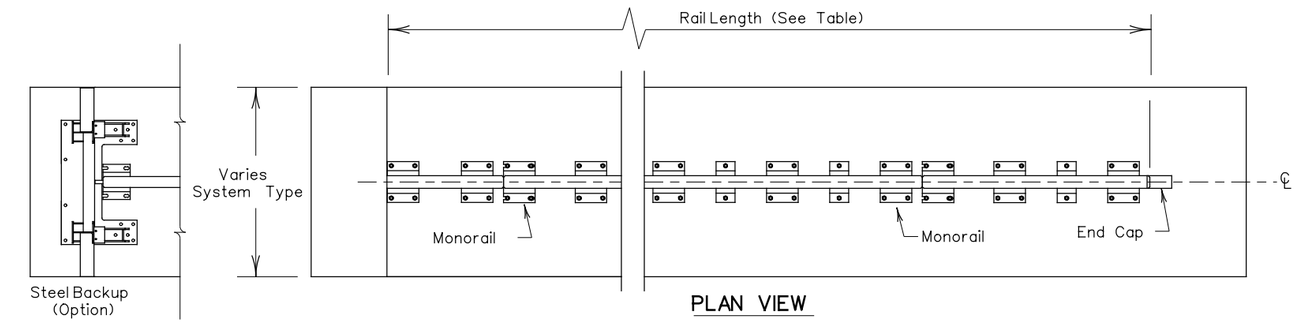
FILE: smtcw16.dgn	DN: TxDOT	CK:KM	DW:BD/VP	CK: VP
©TxDOT: FEBRUARY 2006	CONT	SECT	JOB	HIGHWAY
REVISIONS	0047	05	057, ETC.	SH5, ETC.
REVISED 06. 2013 VP REVISED 03. 2016 VP REVISED 04. 2018 VP	DIST	COUNTY		SHEET NO.
	DAL	COLLIN		465A



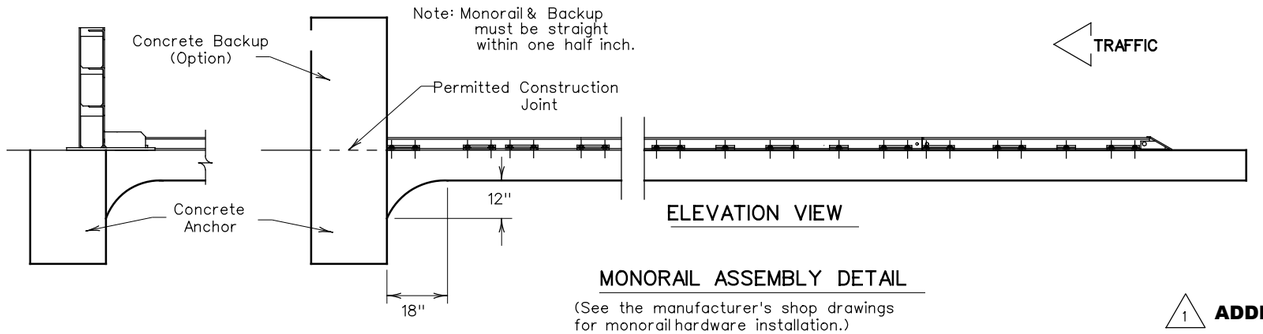
PLAN VIEW



ELEVATION VIEW



PLAN VIEW



ELEVATION VIEW

MONORAIL ASSEMBLY DETAIL

(See the manufacturer's shop drawings for monorail hardware installation.)

GENERAL NOTES

1. For specific information regarding installation and technical guidance of the system, contact: Trinity Highway - Energy Absorption at 1(888)323-6374. 70 W. Madison St. Suite 2350. Chicago, IL 60602
2. The nose of the REACT 350 shall be clad with a plastic wrap with standard delineation adhered to the wrap and shall have a series of side marker reflectors on both sides of the unit. See site plan views for marker and plastic wrap color orientation.
3. For bi-directional traffic, appropriate transition details will be as shown on the manufacturer's shop drawings.
4. Details of components for the REACT(W) and backups and reinforcing details will be shown on the manufacturer's shop drawings furnished to the Engineer.
5. If the cross-slope varies more than 2% over the length of the system, the concrete pad will require leveling. Maximum permissible cross-slope is 8%.
6. The installation area should be free from curbs, elevated objects, or depressions.
7. The REACT(W) system should be approximately parallel with the barrier or ℄ of merging barriers.
8. All steel components to be hot dipped galvanized except stakes, drive spikes, threaded bolts in backup unit, and wedge fittings on cables.

WIDE REACT SYSTEMS					
SYSTEM TYPE	BACKUP WIDTH	TEST LEVEL	SYSTEM LENGTH	EFFECTIVE LENGTH	PAD LENGTH
W60	60"	TL-2 TL-3	18'-10" 30'-10"	16'-3" 29'-3"	19'-6" 32'-6"
W96	96"	TL-2 TL-3	18'-10" 34'-9"	17'-6" 32'-10"	19'-7" 35'-6"
W120	120"	TL-3	33'-10"	32'-2"	35'-6"

(See the manufacturer's shop drawings for additional details.)

ANCHOR SYSTEM TYPE
MP-3® polyester anchoring system with 7.5" studs, 5.5" embedment
FOUNDATION TYPES
Minimum 8" Reinforced concrete pad (Required reinforcing steel for concrete pad shall be shown on the manufacturer's shop drawings. Minimum 8" Non-reinforced concrete roadway (Measuring at least 12' wide by 50' long) Minimum 7" Concrete deck structure, or Minimum 6" Reinforced concrete roadway

1 **ADDED 11/14/2024**

LOW MAINTENANCE

Texas Department of Transportation

Design Division Standard

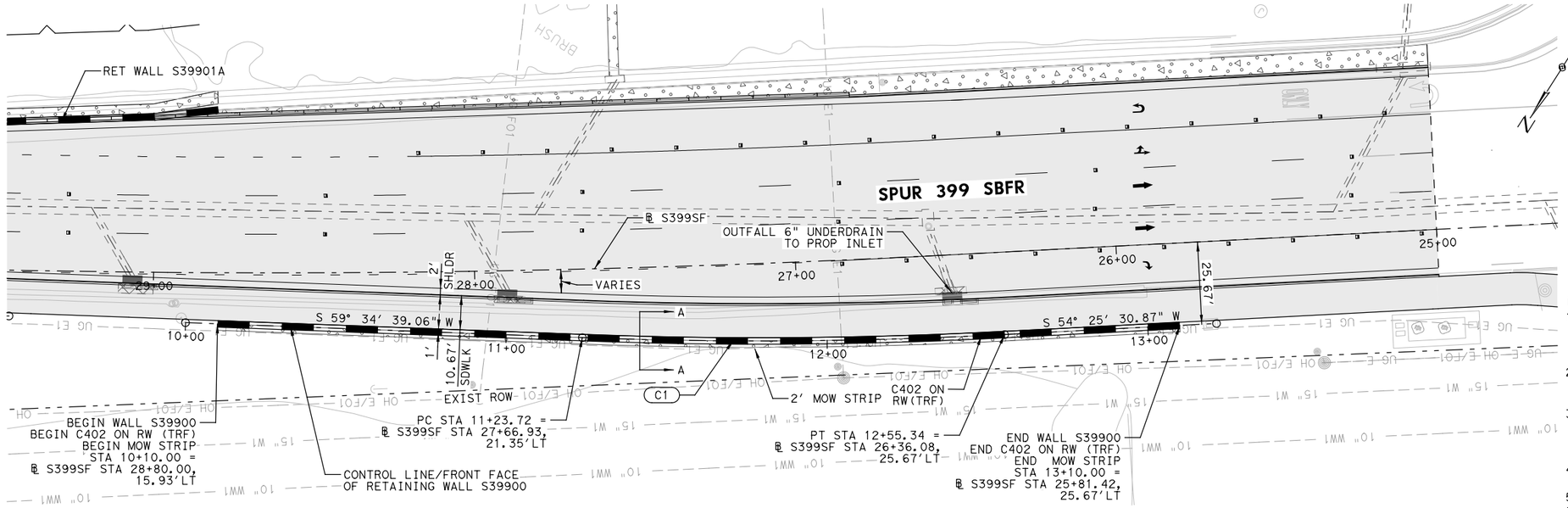
TRINITY HIGHWAY ENERGY ABSORPTION CRASH CUSHION (REACT 350 WIDE)

REACT(W)-16

FILE: reactw16.dgn	DN: TxDOT	CK: KM	DW: VP	CK: VP
©TxDOT: October 2001	CONT	SECT	JOB	HIGHWAY
REVISIONS	0047	05	057, ETC.	SH5, ETC.
REVISED 03.2016 (VP)	DIST	COUNTY		SHEET NO.
	DAL	COLLIN		465B

DATE: 11/14/2024
FILE: C:\Users\asrinivasa\Downloads\reactw16.dgn

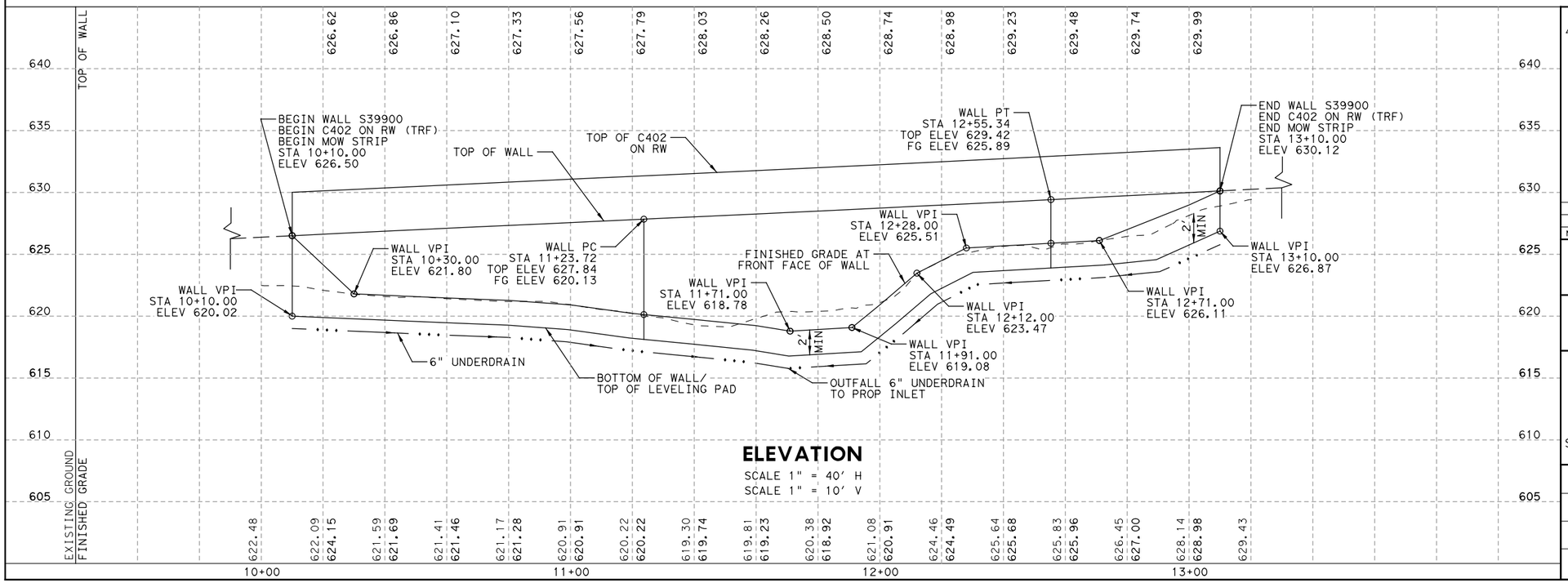
100% PLANS SUBMITTAL



PLAN

SCALE 1" = 40'

S39900 RETAINING WALL QUANTITIES			
ITEM	DESCRIPTION	UNIT	QUANTITY
423-7001	RETAINING WALL (MSE)	SF	2375
432-7013	RIPRAP (MOW STRIP)(4 IN)	CY	8
450-7036	RAIL (TY C402)	LF	300
556-7006	PIPE UNDERDRAINS (TY 6) (6")	LF	301
740-7005	ANTI - GRAFFITI COATING (PERMNENT-TY II)	SF	1673



ELEVATION

SCALE 1" = 40' H
SCALE 1" = 10' V

HORIZONTAL CURVE DATA

	PI STATION	= 11+89.57
	DELTA	= 5° 09' 08.19" (LT)
	DEGREE OF CURVE	= 3° 54' 52.30"
C1	TANGENT	= 65.85
	LENGTH	= 131.62
	RADIUS	= 1,463.67
	PC STATION	= 11+23.72
	PT STATION	= 12+55.34

0 20 40 60 80
HORIZ. SCALE IN FEET
0 5 10 15 20
VERT. SCALE IN FEET

LEGEND

- PROPOSED TRAFFIC FLOW
- EXIST ROW
- PROP ROW
- PROP RETAINING WALL
- PROP TEMP SHORING WALL
- PROP PAVEMENT
- PROP BRIDGE/APPROACH SLAB
- EXIST 100 YEAR FLOODPLAIN
- PROP ROCK RIPRAP
- PROP CONCRETE RIPRAP

NOTES:

1. SEE RW(MSE)(DD)(MOD) DESIGN DATA FOR SOIL STRENGTH PARAMETERS AND EARTH REINFORCEMENT REQUIREMENTS. SEE GENERAL NOTES FOR TYPE OF FILL BEHIND MSE WALL.
2. UNLESS OTHERWISE NOTED IN THE PLANS, THE TOP OF THE LEVELING PAD IS LOCATED 2 FEET OR DEEPER BELOW THE FINISHED GRADE.
3. SURFACE AREA OF RETAINING WALL IS MEASURED FROM THE TOP OF RETAINING WALL TO THE TOP OF THE LEVELING PAD. FOOTING ADJUSTMENTS MADE IN THE FIELD ARE NOT MEASURED.
4. ◔ -DENOTES SOIL BORING LOCATION. SEE BORING LOG DATA SHEETS FOR MORE INFORMATION.
5. SEE DRAINAGE PLANS FOR MORE INFORMATION.
6. MOW STRIP SHALL BE CLASS "B" CONCRETE PER TXDOT ITEM 421. "HYDRAULIC CEMENT CONCRETE."
7. THE LOCATIONS OF EXISTING UTILITIES AND STRUCTURES SHOWN ARE BASED ON AVAILABLE SURVEY DATA. THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF ALL EXISTING UTILITIES AND STRUCTURES, AND NOTIFY ENGINEER OF ANY CONFLICTS BEFORE COMMENCING WORK.
8. SEE RW(MSE), RW(EM), RW(RI) AND RW(TRF) STANDARDS FOR ADDITIONAL DETAILS.
9. FOR OTHER DETAILS NOT SHOWN, SEE RETAINING WALL TYPICAL SECTIONS SHEET.
10. SEE TYPE SSTR/C402 RAIL FOR ADDITIONAL DETAILS.
11. CEMENT STABILIZED BACKFILL IS NOT PERMITTED.

1 REVISED 11/14/2024

11/14/2024

STATE OF TEXAS
BRIAN VERWIJST
127741
LICENSED
PROFESSIONAL ENGINEER

NO.	DATE	REVISION	APPROVED

HDR Engineering, Inc.
Firm Registration No. F-754
17111 Preston Road, Suite 300
Dallas, Texas 75248
972.960.4400

SPUR 399
RETAINING WALL S39900
PLAN AND PROFILE

SCALE: 1"=40'-H
1"=10'-V

SHEET 1 OF 1

DESIGN	FED.RD. DIV.NO.	FEDERAL-AID PROJECT NO.		HIGHWAY NO.
JMD	6	SEE TITLE SHEET		SH5, ETC.
GRAPHICS AKS	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK MH	TEXAS	DAL	COLLIN	567
CHECK JMD	CONTROL	SECTION	JOB	
	0047	05	057, ETC.	

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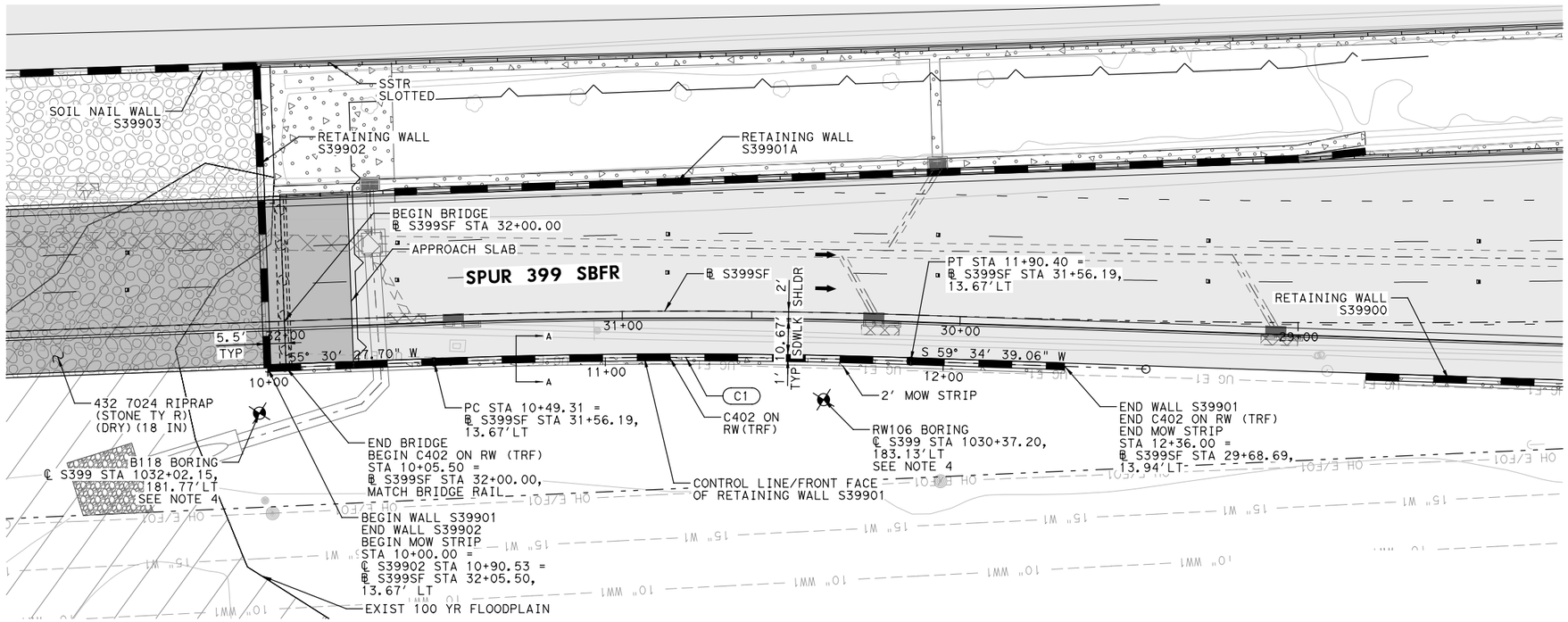
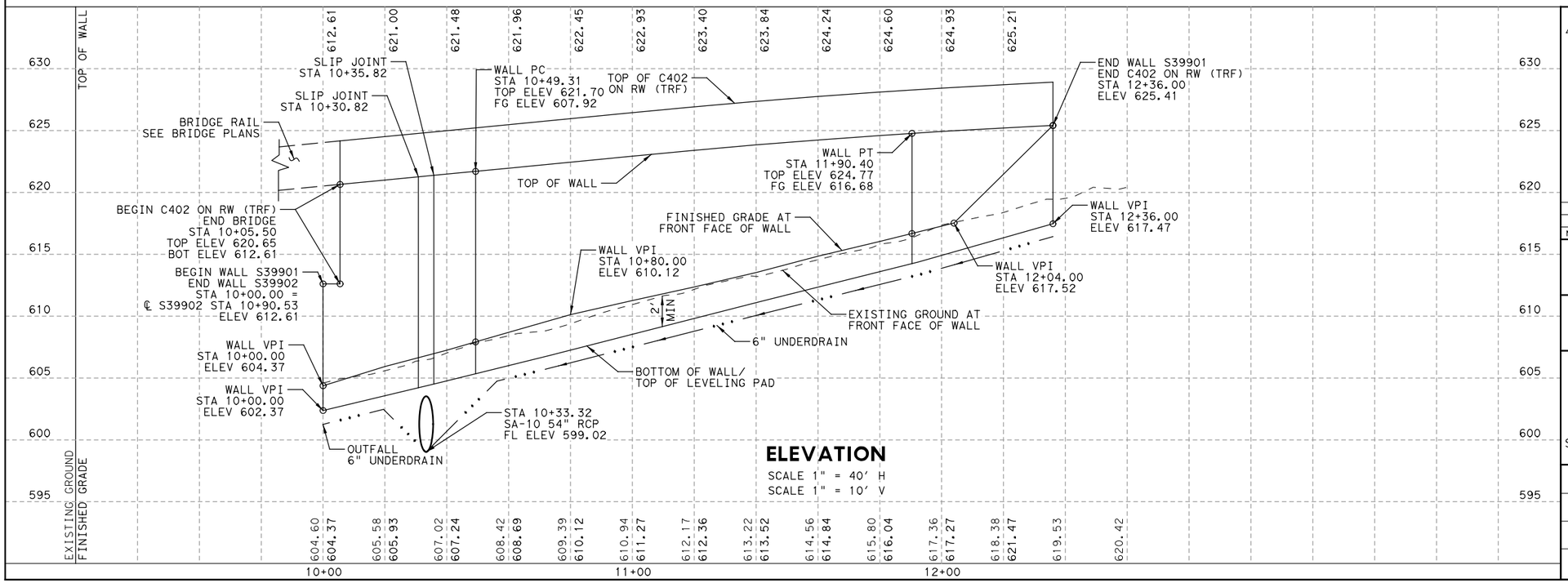
100% PLANS SUBMITTAL



S39901 RETAINING WALL QUANTITIES			
ITEM	DESCRIPTION	UNIT	QUANTITY
423-7001	RETAINING WALL (MSE)	SF	3142
432-7013	RIPRAP (MOW STRIP)(4 IN)	CY	6
450-7036	RAIL (TY C402)	LF	231
556-7006	PIPE UNDERDRAINS (TY 6) (6")	LF	238
740-7005	ANTI - GRAFFITI COATING (PERMNENT-TY II)	SF	2463

PLAN

SCALE 1" = 40'



ELEVATION

SCALE 1" = 40' H
SCALE 1" = 10' V

HORIZONTAL CURVE DATA

C1

PI STATION	=	11+19.88
DELTA	=	4° 04' 11.36" (RT)
DEGREE OF CURVE	=	2° 53' 04.22"
TANGENT	=	70.58
LENGTH	=	141.09
RADIUS	=	1,986.33
PC STATION	=	10+49.31
PT STATION	=	11+90.40

0 20 40 60 80
HORIZ. SCALE IN FEET
0 5 10 15 20
VERT. SCALE IN FEET

LEGEND

- PROPOSED TRAFFIC FLOW
- EXIST ROW
- PROP ROW
- PROP RETAINING WALL
- PROP TEMP SHORING WALL
- PROP PAVEMENT
- PROP BRIDGE/APPROACH SLAB
- EXIST 100 YEAR FLOODPLAIN
- PROP ROCK RIPRAP
- PROP CONCRETE RIPRAP

NOTES:

1. SEE RW(MSE)(DD)(MOD) DESIGN DATA FOR SOIL STRENGTH PARAMETERS AND EARTH REINFORCEMENT REQUIREMENTS. SEE GENERAL NOTES FOR TYPE OF FILL BEHIND MSE WALL.
2. UNLESS OTHERWISE NOTED IN THE PLANS, THE TOP OF THE LEVELING PAD IS LOCATED 2 FEET OR DEEPER BELOW THE FINISHED GRADE.
3. SURFACE AREA OF RETAINING WALL IS MEASURED FROM THE TOP OF RETAINING WALL TO THE TOP OF THE LEVELING PAD. FOOTING ADJUSTMENTS MADE IN THE FIELD ARE NOT MEASURED.
4. ⊕ -DENOTES SOIL BORING LOCATION. SEE BORING LOG DATA SHEETS FOR MORE INFORMATION.
5. SEE DRAINAGE PLANS FOR MORE INFORMATION.
6. MOW STRIP SHALL BE CLASS "B" CONCRETE PER TXDOT ITEM 421. "HYDRAULIC CEMENT CONCRETE."
7. THE LOCATIONS OF EXISTING UTILITIES AND STRUCTURES SHOWN ARE BASED ON AVAILABLE SURVEY DATA. THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF ALL EXISTING UTILITIES AND STRUCTURES, AND NOTIFY ENGINEER OF ANY CONFLICTS BEFORE COMMENCING WORK.
8. SEE RW(MSE), RW(EM), RW(RI) AND RW(TRF) STANDARDS FOR ADDITIONAL DETAILS.
9. FOR OTHER DETAILS NOT SHOWN, SEE RETAINING WALL TYPICAL SECTIONS SHEET.
10. SEE TYPE SSTR/C402 RAIL FOR ADDITIONAL DETAILS.
11. CEMENT STABILIZED BACKFILL IS NOT PERMITTED.

1 REVISED 11/14/2024

STATE OF TEXAS
BRIAN VERWIJST
127741
LICENSED PROFESSIONAL ENGINEER
11/14/2024

NO.	DATE	REVISION	APPROVED

HDR Engineering, Inc.
Firm Registration No. F-754
17111 Preston Road, Suite 300
Dallas, Texas 75248
972.960.4400

Texas Department of Transportation

SPUR 399 RETAINING WALL S39901 PLAN AND PROFILE

SCALE: 1"=40'-H
1"=10'-V

SHEET 1 OF 1

DESIGN	FED.RD. DIV.NO.	FEDERAL-AID PROJECT NO.		HIGHWAY NO.
JMD	6	SEE TITLE SHEET		SH5, ETC.
GRAPHICS AKS	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK MH	TEXAS	DAL	COLLIN	569
CHECK JMD	CONTROL 0047	SECTION 05	JOB 057, ETC.	

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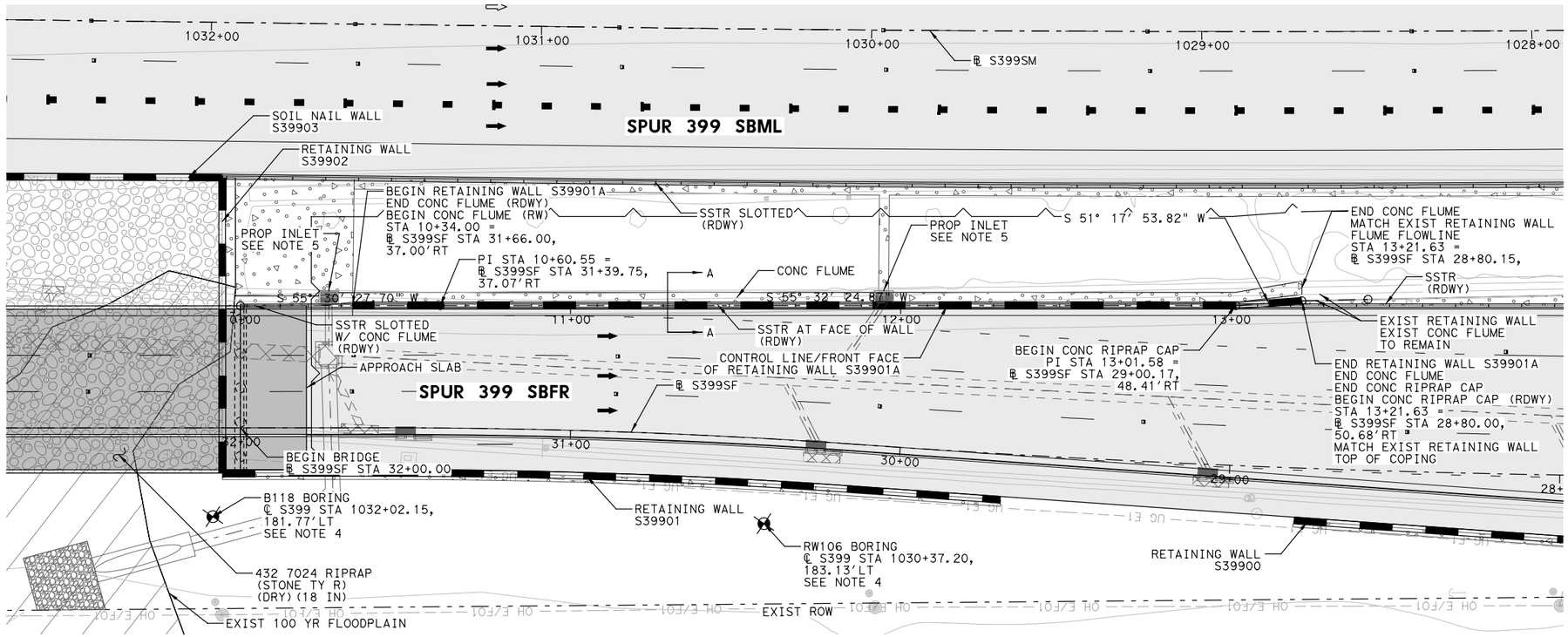
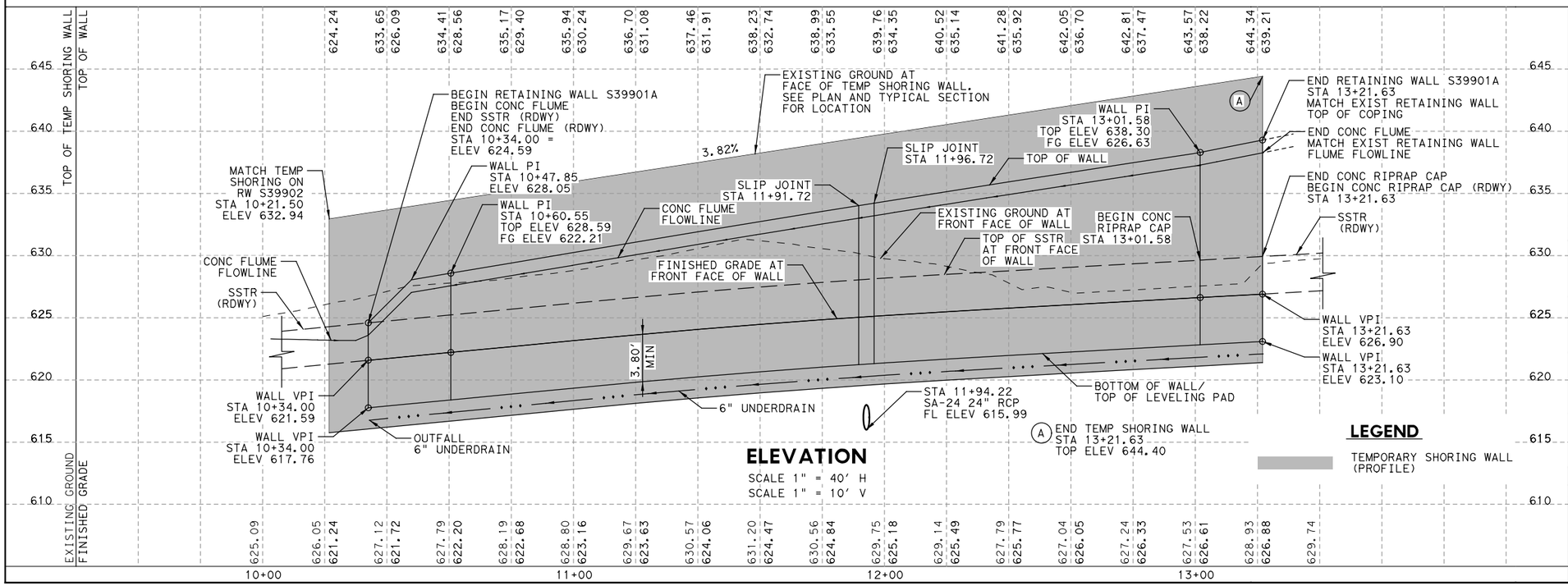
100% PLANS SUBMITTAL



S39901A RETAINING WALL QUANTITIES			
ITEM	DESCRIPTION	UNIT	QUANTITY
403-7001	TEMPORARY SPL SHORING	SF	5924
423-7001	RETAINING WALL (MSE)	SF	3613
432-7012	RIPRAP (CONC)(FLUME)	CY	13
556-7006	PIPE UNDERDRAINS (TY 6) (6")	LF	288
740-7005	ANTI - GRAFFITI COATING (PERMNENT-TY II)	SF	2516

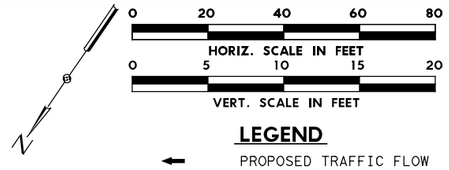
PLAN

SCALE 1" = 40'



ELEVATION

SCALE 1" = 40' H
SCALE 1" = 10' V



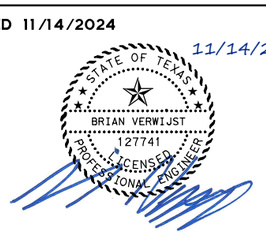
LEGEND

- PROPOSED TRAFFIC FLOW
- EXIST ROW
- PROP ROW
- PROP RETAINING WALL
- PROP TEMP SHORING WALL
- PROP PAVEMENT
- PROP BRIDGE/APPROACH SLAB
- EXIST 100 YEAR FLOODPLAIN
- PROP ROCK RIPRAP
- PROP CONCRETE RIPRAP

NOTES:

1. SEE RW(MSE)(DD)(MOD) DESIGN DATA FOR SOIL STRENGTH PARAMETERS AND EARTH REINFORCEMENT REQUIREMENTS. SEE GENERAL NOTES FOR TYPE OF FILL BEHIND MSE WALL.
2. UNLESS OTHERWISE NOTED IN THE PLANS, THE TOP OF THE LEVELING PAD IS LOCATED 2 FEET OR DEEPER BELOW THE FINISHED GRADE.
3. SURFACE AREA OF RETAINING WALL IS MEASURED FROM THE TOP OF RETAINING WALL TO THE TOP OF THE LEVELING PAD. FOOTING ADJUSTMENTS MADE IN THE FIELD ARE NOT MEASURED.
4. ◔ -DENOTES SOIL BORING LOCATION. SEE BORING LOG DATA SHEETS FOR MORE INFORMATION.
5. SEE DRAINAGE PLANS FOR MORE INFORMATION.
6. MOW STRIP SHALL BE CLASS "B" CONCRETE PER TXDOT ITEM 421. "HYDRAULIC CEMENT CONCRETE."
7. THE LOCATIONS OF EXISTING UTILITIES AND STRUCTURES SHOWN ARE BASED ON AVAILABLE SURVEY DATA. THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF ALL EXISTING UTILITIES AND STRUCTURES, AND NOTIFY ENGINEER OF ANY CONFLICTS BEFORE COMMENCING WORK.
8. SEE RW(MSE), RW(EM), RW(RI) AND RW(TRF) STANDARDS FOR ADDITIONAL DETAILS.
9. FOR OTHER DETAILS NOT SHOWN, SEE RETAINING WALL TYPICAL SECTIONS SHEET.
10. SEE TYPE SSTR/C402 RAIL FOR ADDITIONAL DETAILS.
11. CEMENT STABILIZED BACKFILL IS NOT PERMITTED.

1 REVISED 11/14/2024



NO.	DATE	REVISION	APPROVED

HDR Engineering, Inc.
Firm Registration No. F-754
17111 Preston Road, Suite 300
Dallas, Texas 75248
972.960.4400

Texas Department of Transportation

SPUR 399
RETAINING WALL S39901A
PLAN AND PROFILE

SCALE: 1"=40'-H
1"=10'-V

SHEET 1 OF 1

DESIGN	FED.RD. DIV.NO.	FEDERAL-AID PROJECT NO.		HIGHWAY NO.
JMD	6	SEE TITLE SHEET		SH5, ETC.
GRAPHICS AKS	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK MH	TEXAS	DAL	COLLIN	571
CHECK JMD	CONTROL	SECTION	JOB	
	0047	05	057, ETC.	

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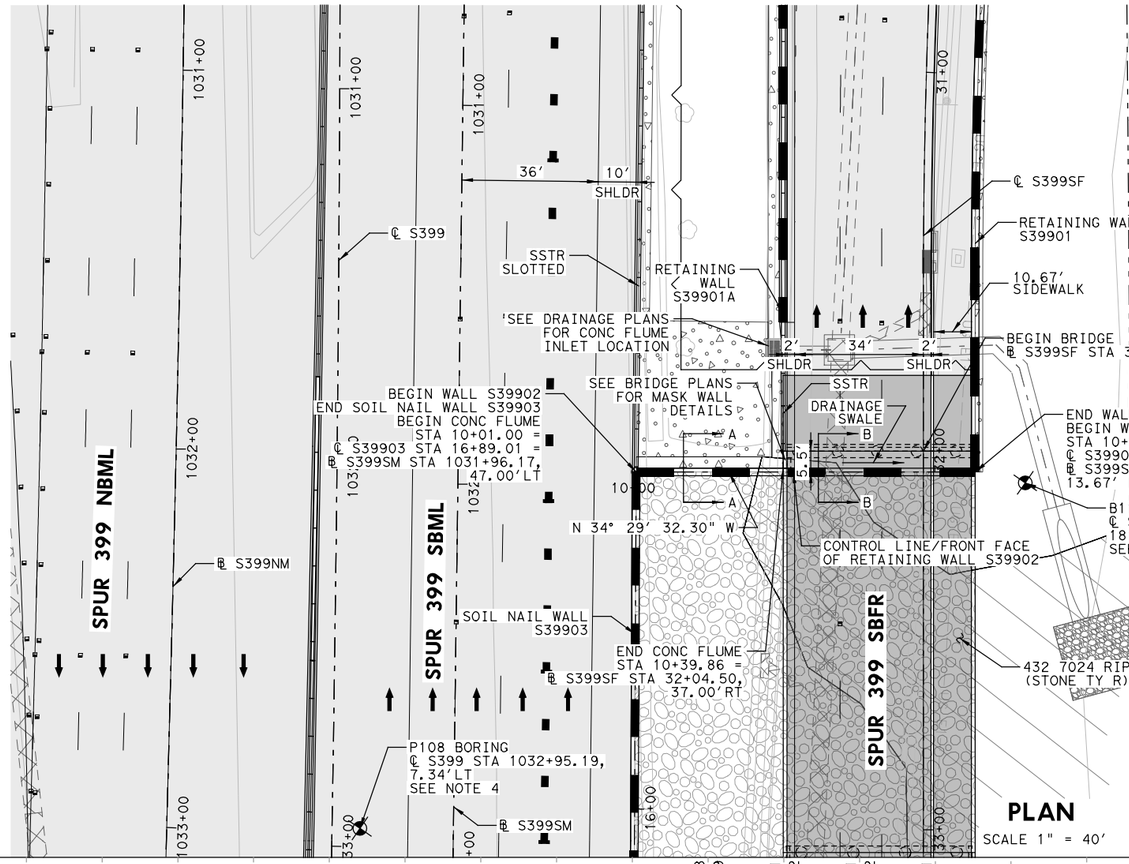
USER: ASRINIVASA
FILE: S399WP03.dgn
PENTABLE: 10811S-SP399-SEGI.tbl
DATE: 11/14/2024
TIME: 4:02:3 PM
SCALE: 1:40

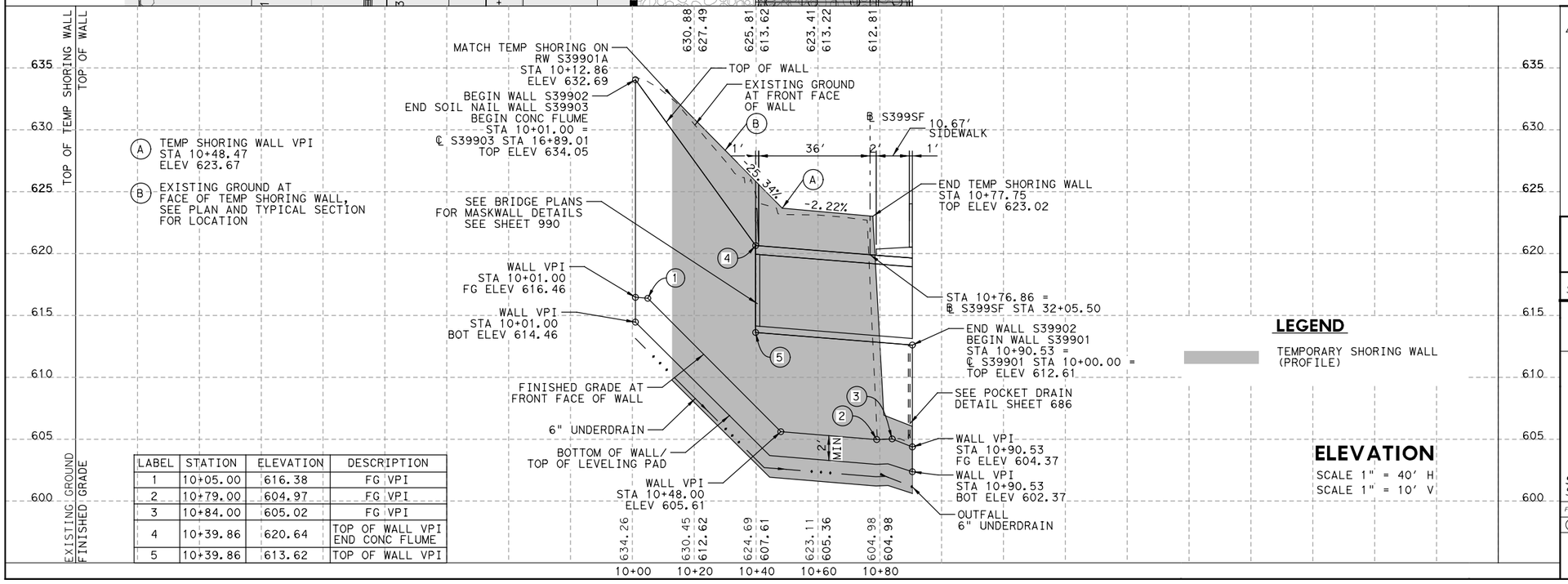
FINAL PLANS SUBMITTAL



PLAN

SCALE 1" = 40′

S39902 RETAINING WALL QUANTITIES			
ITEM	DESCRIPTION	UNIT	QUANTITY
403-7001	TEMPORARY SPL SHORING	SF	1550
423-7001	RETAINING WALL (MSE)	SF	1187
432-7012	RIPRAP (CONC)(FLUME)	CY	2
556-7006	PIPE UNDERDRAINS (TY 6) (6")	LF	91
740-7005	ANTI - GRAFFITI COATING (PERMNENT-TY II)	SF	970



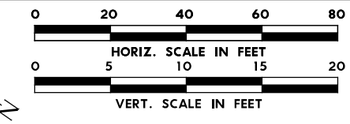
LABEL	STATION	ELEVATION	DESCRIPTION
1	10+05.00	616.38	FG VPI
2	10+79.00	604.97	FG VPI
3	10+84.00	605.02	FG VPI
4	10+39.86	620.64	TOP OF WALL VPI END CONC FLUME
5	10+39.86	613.62	TOP OF WALL VPI

LEGEND

TEMPORARY SHORING WALL (PROFILE)

ELEVATION

SCALE 1" = 40′ H
SCALE 1" = 10′ V



LEGEND

- PROPOSED TRAFFIC FLOW
- EXIST ROW
- PROP ROW
- PROP RETAINING WALL
- PROP TEMP SHORING WALL
- PROP PAVEMENT
- PROP BRIDGE/APPROACH SLAB
- EXIST 100 YEAR FLOODPLAIN
- PROP ROCK RIPRAP
- PROP CONCRETE RIPRAP

NOTES:

1. SEE RW(MSE)(DD)(MOD) DESIGN DATA FOR SOIL STRENGTH PARAMETERS AND EARTH REINFORCEMENT REQUIREMENTS. SEE GENERAL NOTES FOR TYPE OF FILL BEHIND MSE WALL.
2. UNLESS OTHERWISE NOTED IN THE PLANS, THE TOP OF THE LEVELING PAD IS LOCATED 2 FEET OR DEEPER BELOW THE FINISHED GRADE.
3. SURFACE AREA OF RETAINING WALL IS MEASURED FROM THE TOP OF RETAINING WALL TO THE TOP OF THE LEVELING PAD. FOOTING ADJUSTMENTS MADE IN THE FIELD ARE NOT MEASURED.
4. ◔ -DENOTES SOIL BORING LOCATION. SEE BORING LOG DATA SHEETS FOR MORE INFORMATION.
5. SEE DRAINAGE PLANS FOR MORE INFORMATION.
6. MOW STRIP SHALL BE CLASS "B" CONCRETE PER TXDOT ITEM 421. "HYDRAULIC CEMENT CONCRETE."
7. THE LOCATIONS OF EXISTING UTILITIES AND STRUCTURES SHOWN ARE BASED ON AVAILABLE SURVEY DATA. THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF ALL EXISTING UTILITIES AND STRUCTURES, AND NOTIFY ENGINEER OF ANY CONFLICTS BEFORE COMMENCING WORK.
8. SEE RW(MSE), RW(EM), RW(RI) AND RW(TRF) STANDARDS FOR ADDITIONAL DETAILS.
9. FOR OTHER DETAILS NOT SHOWN, SEE RETAINING WALL TYPICAL SECTIONS SHEET.
10. SEE TYPE SSTR/C402 RAIL FOR ADDITIONAL DETAILS.
11. CEMENT STABILIZED BACKFILL IS NOT PERMITTED.

1 REVISED 11/14/2024

11/14/2024

STATE OF TEXAS
BRIAN VERWIJST
127741
LICENSED
PROFESSIONAL ENGINEER

HDR Engineering, Inc.
Firm Registration No. F-754
17111 Preston Road, Suite 300
Dallas, Texas 75248
972.960.4400

Sheet 1 of 1 Sheets

Texas Department of Transportation

Dallas District Bridge

SPUR 399

RETAINING WALL S39902

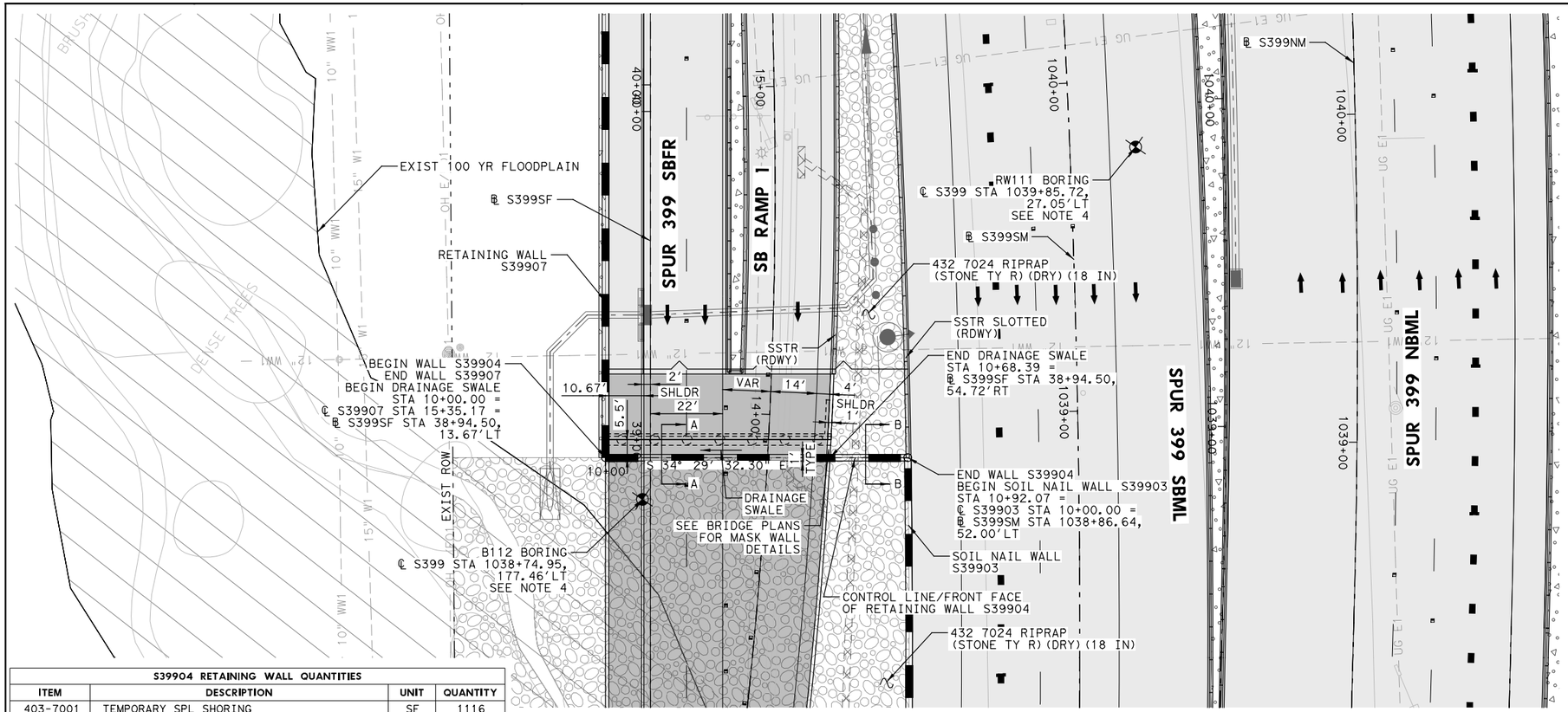
PLAN AND PROFILE

SCALE:1"=40′-H
SCALE:1"=10′-V

FILE: S399WP04.dgn	DN: JMD	CK: MH	DW: AKS	CK: JMD
©TxDOT 2024	CONT	SECT	JOB	HIGHWAY
REVISIONS	0047	05	057, ETC.	SH5, ETC.
	DIST	COUNTY		SHEET NO.
	DAL	COLLIN		573

PLOT DRIVER: TXDOT_PDF_BW.pltcfg PENTABLE: 10BII5-SP399-SEG1.tbl
USER: ASRINIVASA DATE: 11/14/2024 TIME: 4:02:13 PM CALE: 1:40
FILE: S399WP04.dgn

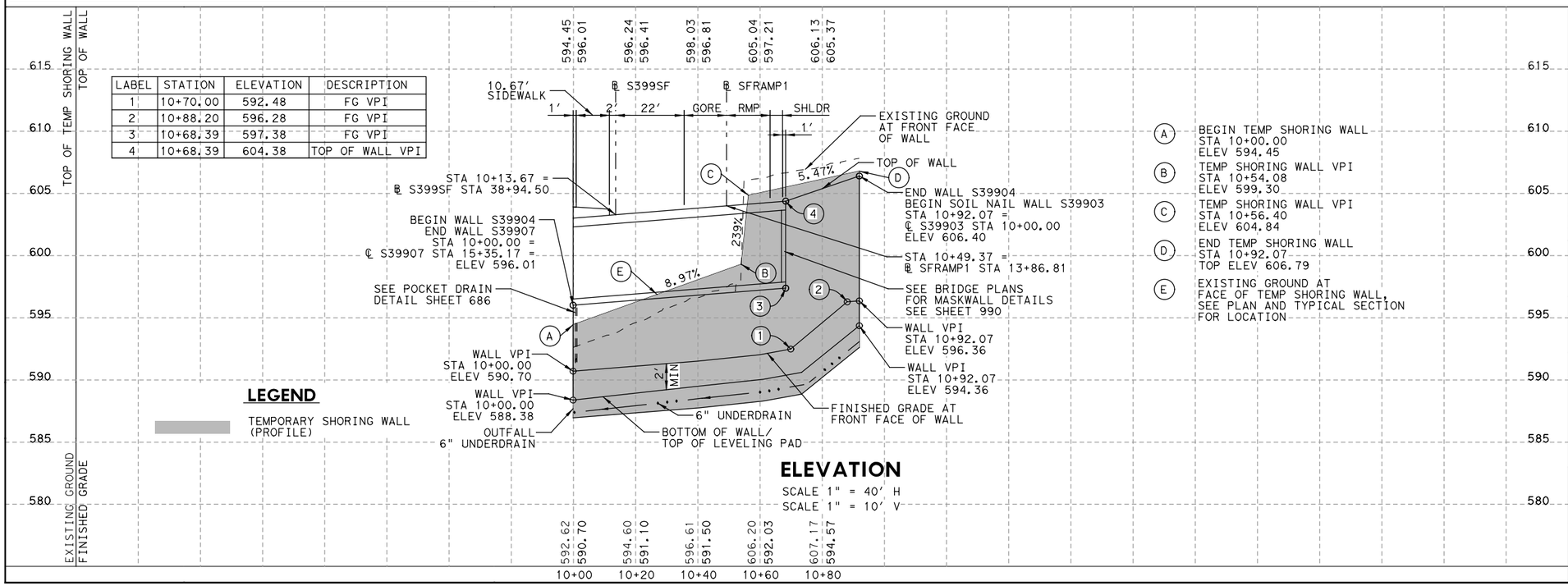
100% PLANS SUBMITTAL



PLAN

SCALE 1" = 40'

S39904 RETAINING WALL QUANTITIES			
ITEM	DESCRIPTION	UNIT	QUANTITY
403-7001	TEMPORARY SPL SHORING	SF	1116
423-7001	RETAINING WALL (MSE)	SF	814
556-7006	PIPE UNDERDRAINS (TY 6) (6")	LF	93
740-7005	ANTI - GRAFFITI COATING (PERMNENT-TY II)	SF	617



LABEL	STATION	ELEVATION	DESCRIPTION
1	10+70.00	592.48	FG VPI
2	10+88.20	596.28	FG VPI
3	10+68.39	597.38	FG VPI
4	10+68.39	604.38	TOP OF WALL VPI

LEGEND

TEMPORARY SHORING WALL (PROFILE)

(A) BEGIN TEMP SHORING WALL
STA 10+00.00
ELEV 594.45

(B) TEMP SHORING WALL VPI
STA 10+54.08
ELEV 599.30

(C) TEMP SHORING WALL VPI
STA 10+56.40
ELEV 604.84

(D) END TEMP SHORING WALL
STA 10+92.07
TOP ELEV 606.79

(E) EXISTING GROUND AT
FACE OF TEMP SHORING WALL,
SEE PLAN AND TYPICAL SECTION
FOR LOCATION

ELEVATION

SCALE 1" = 40' H
SCALE 1" = 10' V

0 20 40 60 80
HORIZ. SCALE IN FEET
0 5 10 15 20
VERT. SCALE IN FEET

LEGEND

- PROPOSED TRAFFIC FLOW
- EXIST ROW
- PROP ROW
- PROP RETAINING WALL
- PROP TEMP SHORING WALL
- PROP PAVEMENT
- PROP BRIDGE/APPROACH SLAB
- EXIST 100 YEAR FLOODPLAIN
- PROP ROCK RIPRAP
- PROP CONCRETE RIPRAP

NOTES:

1. SEE RW(MSE)(DD)(MOD) DESIGN DATA FOR SOIL STRENGTH PARAMETERS AND EARTH REINFORCEMENT REQUIREMENTS. SEE GENERAL NOTES FOR TYPE OF FILL BEHIND MSE WALL.
2. UNLESS OTHERWISE NOTED IN THE PLANS, THE TOP OF THE LEVELING PAD IS LOCATED 2 FEET OR DEEPER BELOW THE FINISHED GRADE.
3. SURFACE AREA OF RETAINING WALL IS MEASURED FROM THE TOP OF RETAINING WALL TO THE TOP OF THE LEVELING PAD. FOOTING ADJUSTMENTS MADE IN THE FIELD ARE NOT MEASURED.
4. ◔ -DENOTES SOIL BORING LOCATION. SEE BORING LOG DATA SHEETS FOR MORE INFORMATION.
5. SEE DRAINAGE PLANS FOR MORE INFORMATION.
6. MOW STRIP SHALL BE CLASS "B" CONCRETE PER TXDOT ITEM 421. "HYDRAULIC CEMENT CONCRETE."
7. THE LOCATIONS OF EXISTING UTILITIES AND STRUCTURES SHOWN ARE BASED ON AVAILABLE SURVEY DATA. THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF ALL EXISTING UTILITIES AND STRUCTURES, AND NOTIFY ENGINEER OF ANY CONFLICTS BEFORE COMMENCING WORK.
8. SEE RW(MSE), RW(EM), RW(RI) AND RW(TRF) STANDARDS FOR ADDITIONAL DETAILS.
9. FOR OTHER DETAILS NOT SHOWN, SEE RETAINING WALL TYPICAL SECTIONS SHEET.
10. SEE TYPE SSTR/C402 RAIL FOR ADDITIONAL DETAILS.
11. CEMENT STABILIZED BACKFILL IS NOT PERMITTED.

1 REVISED 11/14/2024

11/14/2024

STATE OF TEXAS
BRIAN VERWIJST
127741
LICENSED
PROFESSIONAL ENGINEER

NO.	DATE	REVISION	APPROVED

HDR Engineering, Inc.
Firm Registration No. F-754
17111 Preston Road, Suite 300
Dallas, Texas 75248
972.960.4400

SPUR 399
RETAINING WALL S39904
PLAN AND PROFILE

SCALE: 1"=40'-H
1"=10'-V

SHEET 1 OF 1

DESIGN	FED.RD. DIV.NO.	FEDERAL-AID PROJECT NO.		HIGHWAY NO.
JMD	6	SEE TITLE SHEET		SH5, ETC.
GRAPHICS AKS	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK MH	TEXAS	DAL	COLLIN	585
CHECK JMD	CONTROL	SECTION	JOB	
	0047	05	057, ETC.	

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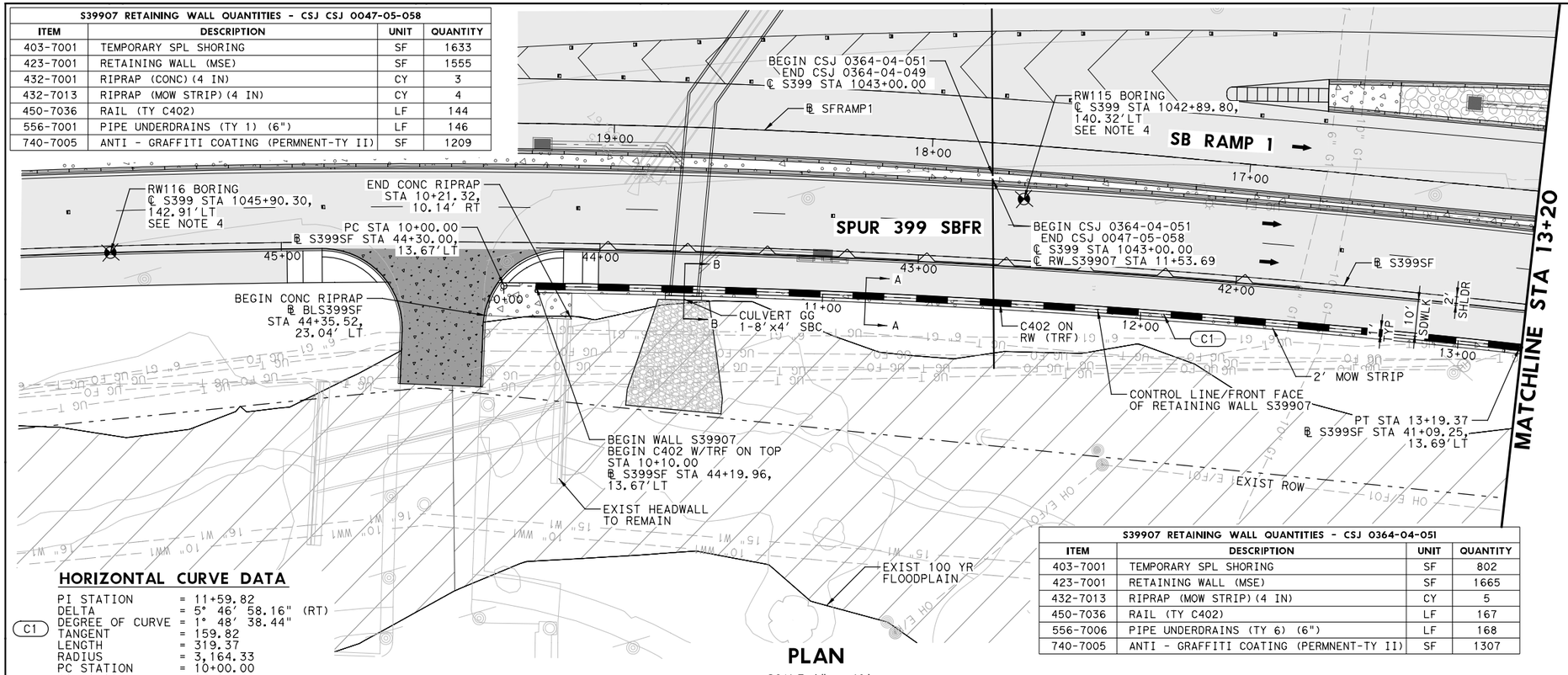
USER: ASRINIVASA
FILE: S399WP07.dgn
DATE: 11/14/2024
TIME: 4:02:13 PM
SCALE: 1:40
PENTABLE: 10181S-SP399-SEGI.tbl

100% PLANS SUBMITTAL

S39907 RETAINING WALL QUANTITIES - CSJ CSJ 0047-05-058			
ITEM	DESCRIPTION	UNIT	QUANTITY
403-7001	TEMPORARY SPL SHORING	SF	1633
423-7001	RETAINING WALL (MSE)	SF	1555
432-7001	RIPRAP (CONC)(4 IN)	CY	3
432-7013	RIPRAP (MOW STRIP)(4 IN)	CY	4
450-7036	RAIL (TY C402)	LF	144
556-7001	PIPE UNDERDRAINS (TY 1) (6")	LF	146
740-7005	ANTI - GRAFFITI COATING (PERMNENT-TY II)	SF	1209



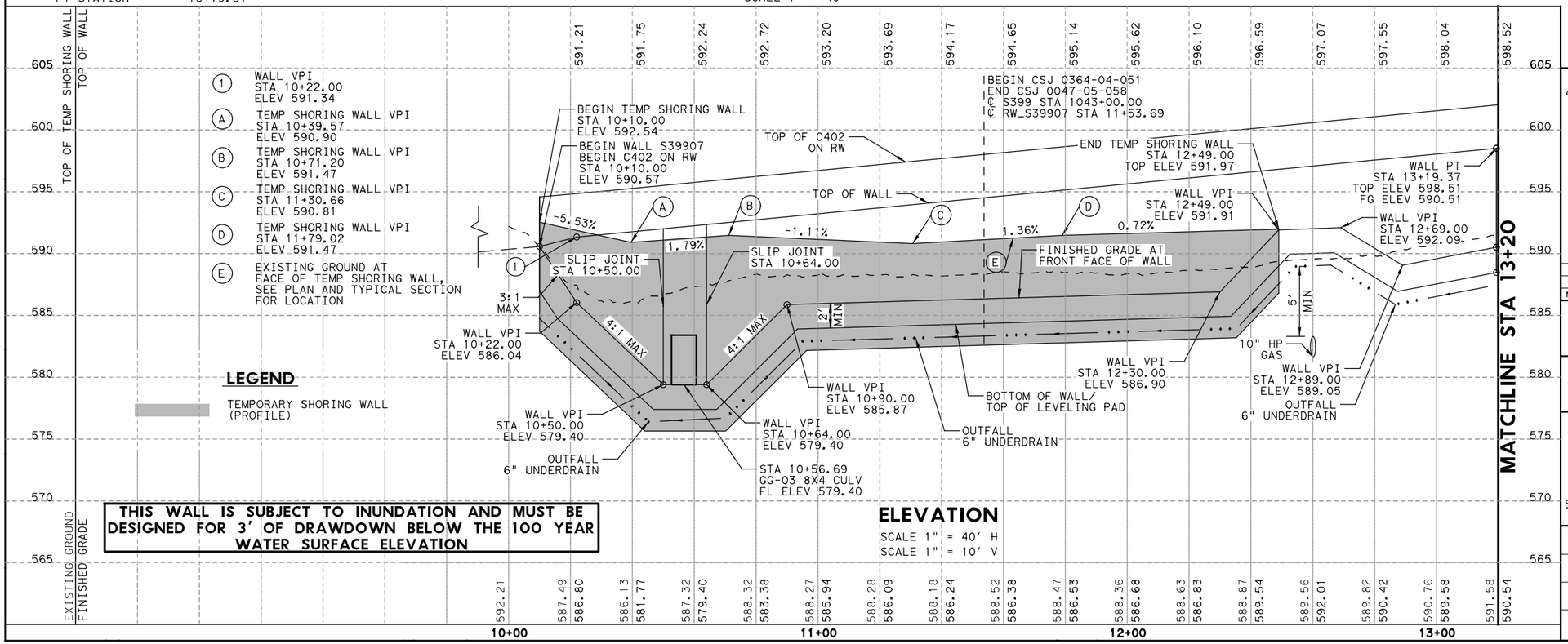
HORIZONTAL CURVE DATA

C1
PI STATION = 11+59.82
DELTA = 5° 46' 58.16" (RT)
DEGREE OF CURVE = 1° 48' 38.44"
TANGENT = 159.82
LENGTH = 319.37
RADIUS = 3,164.33
PC STATION = 10+00.00
PT STATION = 13+19.37

PLAN

SCALE 1" = 40'

S39907 RETAINING WALL QUANTITIES - CSJ 0364-04-051			
ITEM	DESCRIPTION	UNIT	QUANTITY
403-7001	TEMPORARY SPL SHORING	SF	802
423-7001	RETAINING WALL (MSE)	SF	1665
432-7013	RIPRAP (MOW STRIP)(4 IN)	CY	5
450-7036	RAIL (TY C402)	LF	167
556-7006	PIPE UNDERDRAINS (TY 6) (6")	LF	168
740-7005	ANTI - GRAFFITI COATING (PERMNENT-TY II)	SF	1307



LEGEND

TEMPORARY SHORING WALL (PROFILE)

THIS WALL IS SUBJECT TO INUNDATION AND MUST BE DESIGNED FOR 3' OF DRAWDOWN BELOW THE 100 YEAR WATER SURFACE ELEVATION

ELEVATION

SCALE 1" = 40' H
SCALE 1" = 10' V

HORIZ. SCALE IN FEET: 0 20 40 60 80
VERT. SCALE IN FEET: 0 5 10 15 20

LEGEND

- PROPOSED TRAFFIC FLOW
- EXIST ROW
- PROP ROW
- PROP RETAINING WALL
- PROP TEMP SHORING WALL
- PROP PAVEMENT
- PROP BRIDGE/APPROACH SLAB
- EXIST 100 YEAR FLOODPLAIN
- PROP ROCK RIPRAP
- PROP CONCRETE RIPRAP

NOTES:
1. SEE RW(MSE)(DD) DESIGN DATA FOR SOIL STRENGTH PARAMETERS AND EARTH REINFORCEMENT REQUIREMENTS. SEE GENERAL NOTES FOR TYPE OF FILL BEHIND MSE WALL.
2. UNLESS OTHERWISE NOTED IN THE PLANS, THE TOP OF THE LEVELING PAD IS LOCATED 2 FEET OR DEEPER BELOW THE FINISHED GRADE.
3. SURFACE AREA OF RETAINING WALL IS MEASURED FROM THE TOP OF RETAINING WALL TO THE TOP OF THE LEVELING PAD. FOOTING ADJUSTMENTS MADE IN THE FIELD ARE NOT MEASURED.
4. ◔ -DENOTES SOIL BORING LOCATION. SEE BORING LOG DATA SHEETS FOR MORE INFORMATION.
5. SEE DRAINAGE PLANS FOR MORE INFORMATION.
6. MOW STRIP SHALL BE CLASS "B" CONCRETE PER TXDOT ITEM 421. "HYDRAULIC CEMENT CONCRETE."
7. THE LOCATIONS OF EXISTING UTILITIES AND STRUCTURES SHOWN ARE BASED ON AVAILABLE SURVEY DATA. THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF ALL EXISTING UTILITIES AND STRUCTURES, AND NOTIFY ENGINEER OF ANY CONFLICTS BEFORE COMMENCING WORK.
8. SEE RW 1(L)C, RW(MSE), RW(EM), RW(RI) AND RW(TRF) STANDARDS FOR ADDITIONAL DETAILS.
9. FOR OTHER DETAILS NOT SHOWN, SEE RETAINING WALL TYPICAL SECTIONS SHEET.
10. SEE TYPE SSTR RAIL FOR ADDITIONAL DETAILS.
11. CEMENT STABILIZED BACKFILL IS NOT PERMITTED.

1 REVISED 11/14/2024

11/14/2024

STATE OF TEXAS · BRIAN VERWIJST · 127741 · LICENSED PROFESSIONAL ENGINEER

NO.	DATE	REVISION	APPROVED

HDR Engineering, Inc.
Firm Registration No. F-754
17111 Preston Road, Suite 300
Dallas, Texas 75248
972.960.4400

Texas Department of Transportation

SPUR 399
RETAINING WALL S39907
PLAN AND PROFILE
BEGIN TO STA 13+20

SCALE: 1"=40'-H
1"=10'-V

SHEET 1 OF 2

DESIGN	FED.RD. DIV.NO.	FEDERAL-AID PROJECT NO.		HIGHWAY NO.
JMD	6	SEE TITLE SHEET		SH5, ETC.
GRAPHICS AKS	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK MH	TEXAS	DAL	COLLIN	587
CHECK JMD	CONTROL	SECTION	JOB	
	0047	05	057, ETC.	

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FILE: S399WP08.dgn
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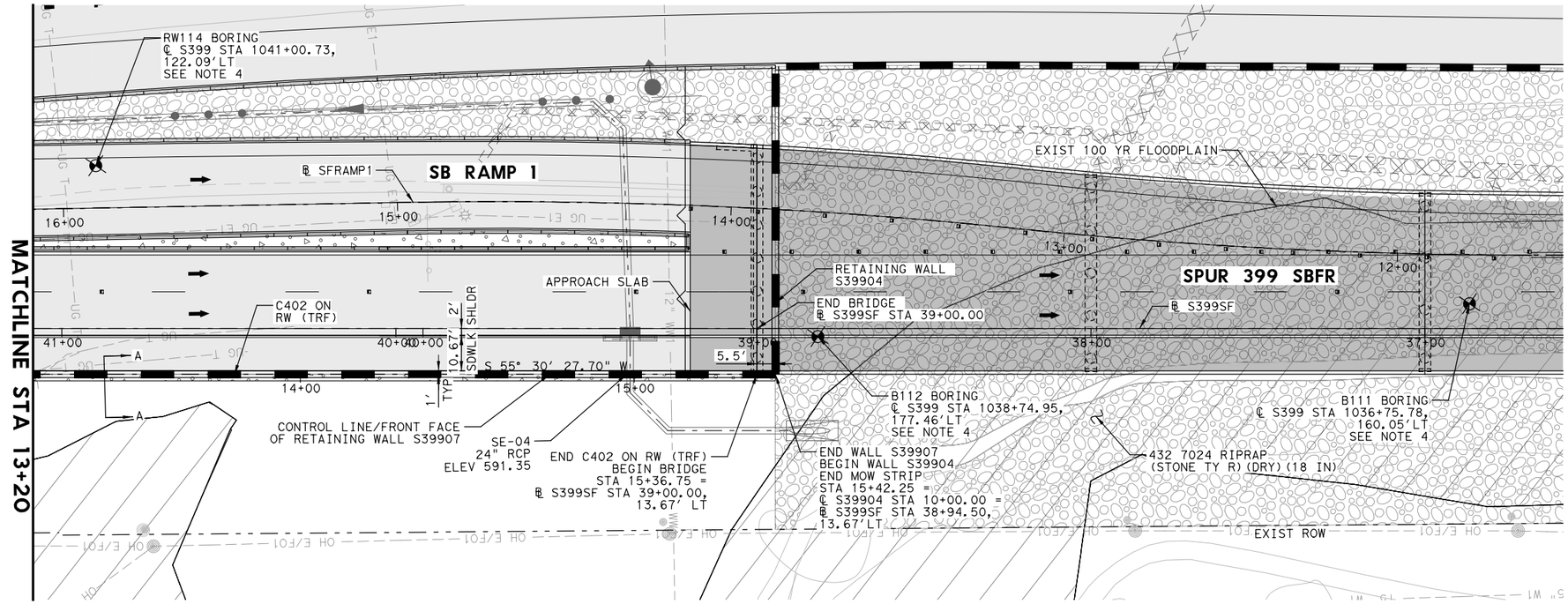
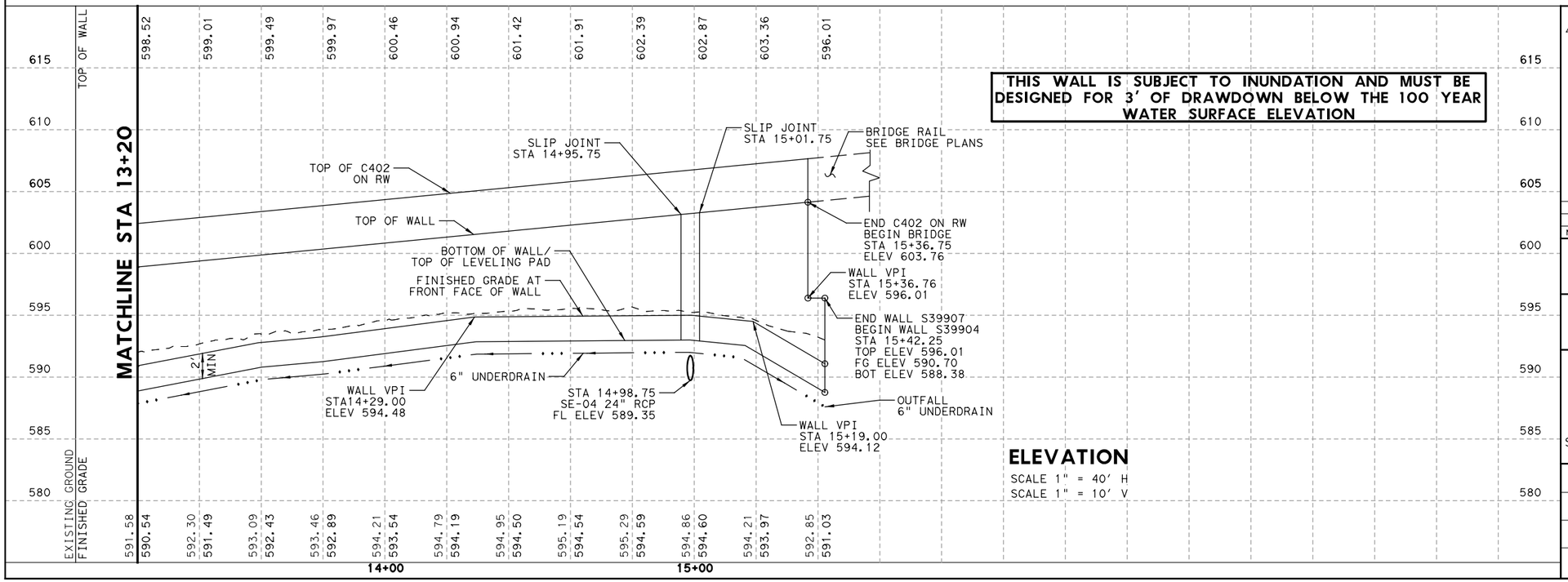
100% PLANS SUBMITTAL



S39907 RETAINING WALL QUANTITIES			
ITEM	DESCRIPTION	UNIT	QUANTITY
423-7001	RETAINING WALL (MSE)	SF	2148
432-7013	RIPRAP (MOW STRIP)(4 IN)	CY	6
450-7036	RAIL (TY C402)	LF	217
556-7006	PIPE UNDERDRAINS (TY 6) (6")	LF	223
740-7005	ANTI - GRAFFITI COATING (PERMNENT-TY II)	SF	1693

PLAN

SCALE 1" = 40'



THIS WALL IS SUBJECT TO INUNDATION AND MUST BE DESIGNED FOR 3' OF DRAWDOWN BELOW THE 100 YEAR WATER SURFACE ELEVATION

ELEVATION

SCALE 1" = 40' H
SCALE 1" = 10' V

0 20 40 60 80
HORIZ. SCALE IN FEET
0 5 10 15 20
VERT. SCALE IN FEET

LEGEND

- PROPOSED TRAFFIC FLOW
- EXIST ROW
- PROP ROW
- PROP RETAINING WALL
- PROP TEMP SHORING WALL
- PROP PAVEMENT
- PROP BRIDGE/APPROACH SLAB
- EXIST 100 YEAR FLOODPLAIN
- PROP ROCK RIPRAP
- PROP CONCRETE RIPRAP

NOTES:

1. SEE RW(MSE)(DD)(MOD) DESIGN DATA FOR SOIL STRENGTH PARAMETERS AND EARTH REINFORCEMENT REQUIREMENTS. SEE GENERAL NOTES FOR TYPE OF FILL BEHIND MSE WALL.
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3. SURFACE AREA OF RETAINING WALL IS MEASURED FROM THE TOP OF RETAINING WALL TO THE TOP OF THE LEVELING PAD. FOOTING ADJUSTMENTS MADE IN THE FIELD ARE NOT MEASURED.
4. ◔ -DENOTES SOIL BORING LOCATION. SEE BORING LOG DATA SHEETS FOR MORE INFORMATION.
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9. FOR OTHER DETAILS NOT SHOWN, SEE RETAINING WALL TYPICAL SECTIONS SHEET.
10. SEE TYPE SSTR/C402 RAIL FOR ADDITIONAL DETAILS.
11. CEMENT STABILIZED BACKFILL IS NOT PERMITTED.

1 REVISED 11/14/2024

11/14/2024

STATE OF TEXAS
BRIAN VERWIJST
127741
LICENSED
PROFESSIONAL ENGINEER

NO.	DATE	REVISION	APPROVED

HDR Engineering, Inc.
Firm Registration No. F-754
17111 Preston Road, Suite 300
Dallas, Texas 75248
972.960.4400

SPUR 399
RETAINING WALL S39907
PLAN AND PROFILE
STA 13+20 TO END

SCALE: 1"=40'-H
1"=10'-V

SHEET 2 OF 2

DESIGN	FED.RD. DIV.NO.	FEDERAL-AID PROJECT NO.		HIGHWAY NO.
JMD	6	SEE TITLE SHEET		SH5, ETC.
GRAPHICS AKS	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK MH	TEXAS	DAL	COLLIN	588
CHECK JMD	CONTROL	SECTION	JOB	
	0047	05	057, ETC.	

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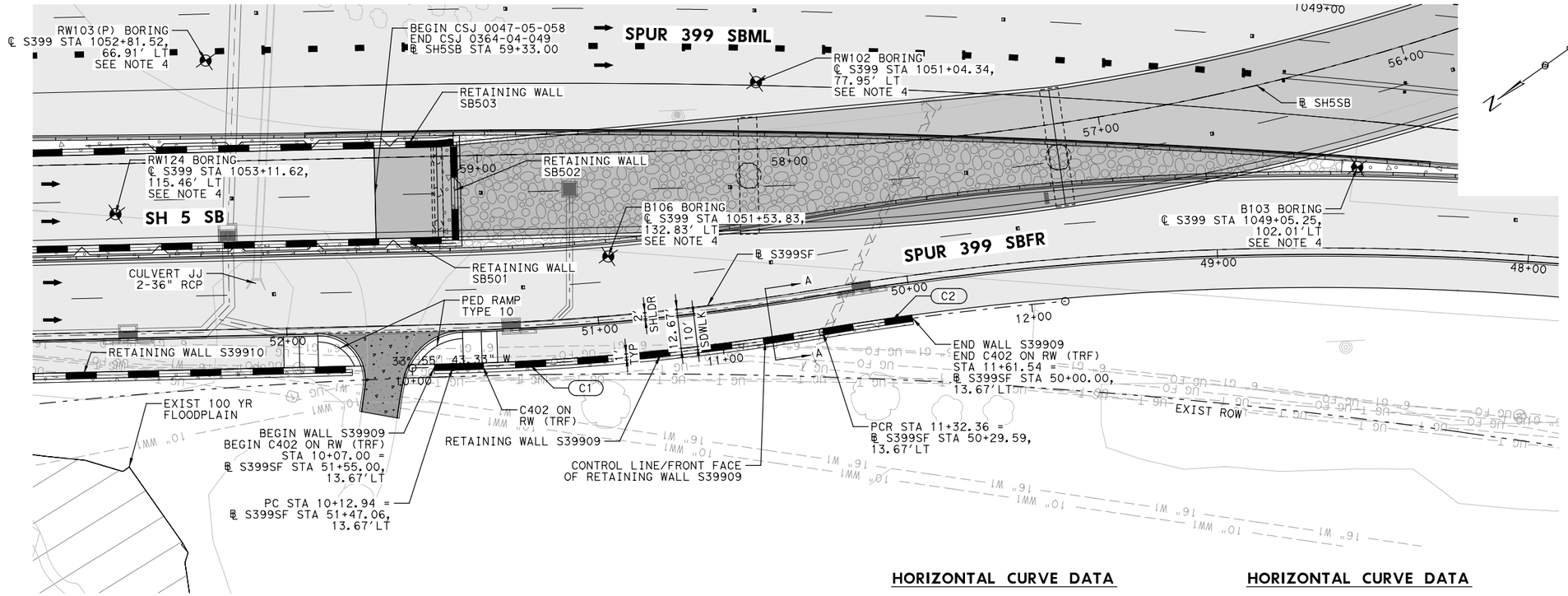
100% PLANS SUBMITTAL



PLAN

SCALE 1" = 40'

0 20 40 60 80
HORIZ. SCALE IN FEET
0 5 10 15 20
VERT. SCALE IN FEET

LEGEND

- PROPOSED TRAFFIC FLOW
- EXIST ROW
- PROP ROW
- PROP RETAINING WALL
- PROP TEMP SHORING WALL
- PROP PAVEMENT
- PROP BRIDGE/APPROACH SLAB
- EXIST 100 YEAR FLOODPLAIN
- PROP ROCK RIPRAP
- PROP CONCRETE RIPRAP

NOTES:

1. SEE RW(MSE)(DD)(MOD) DESIGN DATA FOR SOIL STRENGTH PARAMETERS AND EARTH REINFORCEMENT REQUIREMENTS. SEE GENERAL NOTES FOR TYPE OF FILL BEHIND MSE WALL.
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5. SEE DRAINAGE PLANS FOR MORE INFORMATION.
6. MOW STRIP SHALL BE CLASS "B" CONCRETE PER TXDOT ITEM 421. "HYDRAULIC CEMENT CONCRETE."
7. THE LOCATIONS OF EXISTING UTILITIES AND STRUCTURES SHOWN ARE BASED ON AVAILABLE SURVEY DATA. THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF ALL EXISTING UTILITIES AND STRUCTURES, AND NOTIFY ENGINEER OF ANY CONFLICTS BEFORE COMMENCING WORK.
8. SEE RW(MSE), RW(EM), RW(RI) AND RW(TRF) STANDARDS FOR ADDITIONAL DETAILS.
9. FOR OTHER DETAILS NOT SHOWN, SEE RETAINING WALL TYPICAL SECTIONS SHEET.
10. SEE TYPE SSTR/C402 RAIL FOR ADDITIONAL DETAILS.
11. CEMENT STABILIZED BACKFILL IS NOT PERMITTED.

S39909 RETAINING WALL QUANTITIES

ITEM	DESCRIPTION	UNIT	QUANTITY
423-7001	RETAINING WALL (MSE)	SF	1116
432-7001	RIPRAP (CONC)(4 IN)	CY	4
450-7036	RAIL (TY C402)	LF	155
556-7006	PIPE UNDERDRAINS (TY 6) (6")	LF	161
740-7005	ANTI - GRAFFITI COATING (PERMNENT-TY II)	SF	777

HORIZONTAL CURVE DATA

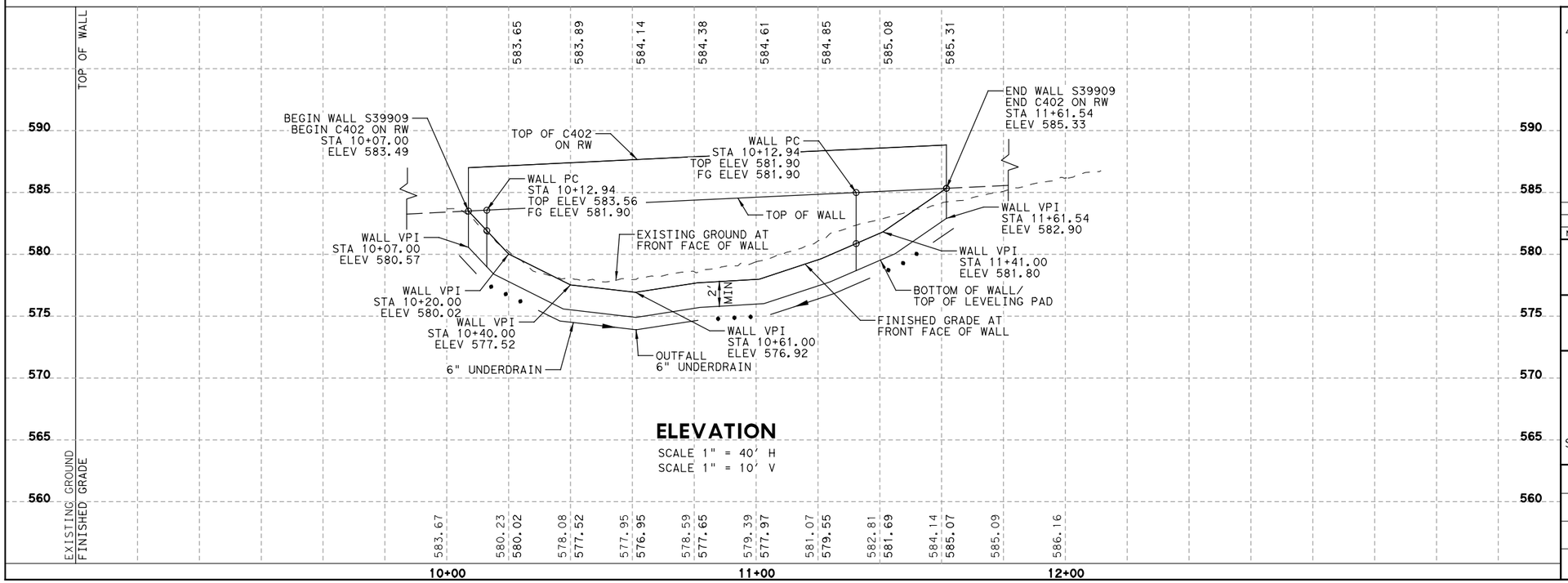
C1

PI STATION	= 10+72.76
DELTA	= 8° 11' 16.11" (LT)
DEGREE OF CURVE	= 6° 51' 22.57"
TANGENT	= 59.81
LENGTH	= 119.42
RADIUS	= 835.67
PC STATION	= 10+12.94
PT STATION	= 11+32.36

HORIZONTAL CURVE DATA

C2

PI STATION	= 11+71.62
DELTA	= 4° 39' 45.70" (RT)
DEGREE OF CURVE	= 5° 56' 29.44"
TANGENT	= 39.26
LENGTH	= 78.48
RADIUS	= 964.33
PC STATION	= 11+32.36
PT STATION	= 12+10.84



ELEVATION

SCALE 1" = 40' H
SCALE 1" = 10' V

1 REVISED 11/14/2024

11/14/2024

STATE OF TEXAS
BRIAN VERWIJST
127741
LICENSED
PROFESSIONAL ENGINEER

NO.	DATE	REVISION	APPROVED

HDR Engineering, Inc.
Firm Registration No. F-754
17111 Preston Road, Suite 300
Dallas, Texas 75248
972.960.4400

SPUR 399
RETAINING WALL S39909
PLAN AND PROFILE

SCALE: 1"=40'-H
1"=10'-V

SHEET 1 OF 1

DESIGN	FED.RD. DIV.NO.	FEDERAL-AID PROJECT NO.		HIGHWAY NO.
JMD	6	SEE TITLE SHEET		SH5, ETC.
GRAPHICS AKS	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK MH	TEXAS	DAL	COLLIN	590
CHECK JMD	CONTROL	SECTION	JOB	
	0047	05	057, ETC.	

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FILE: S399WPII.dgn
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DATE: 11/14/2024
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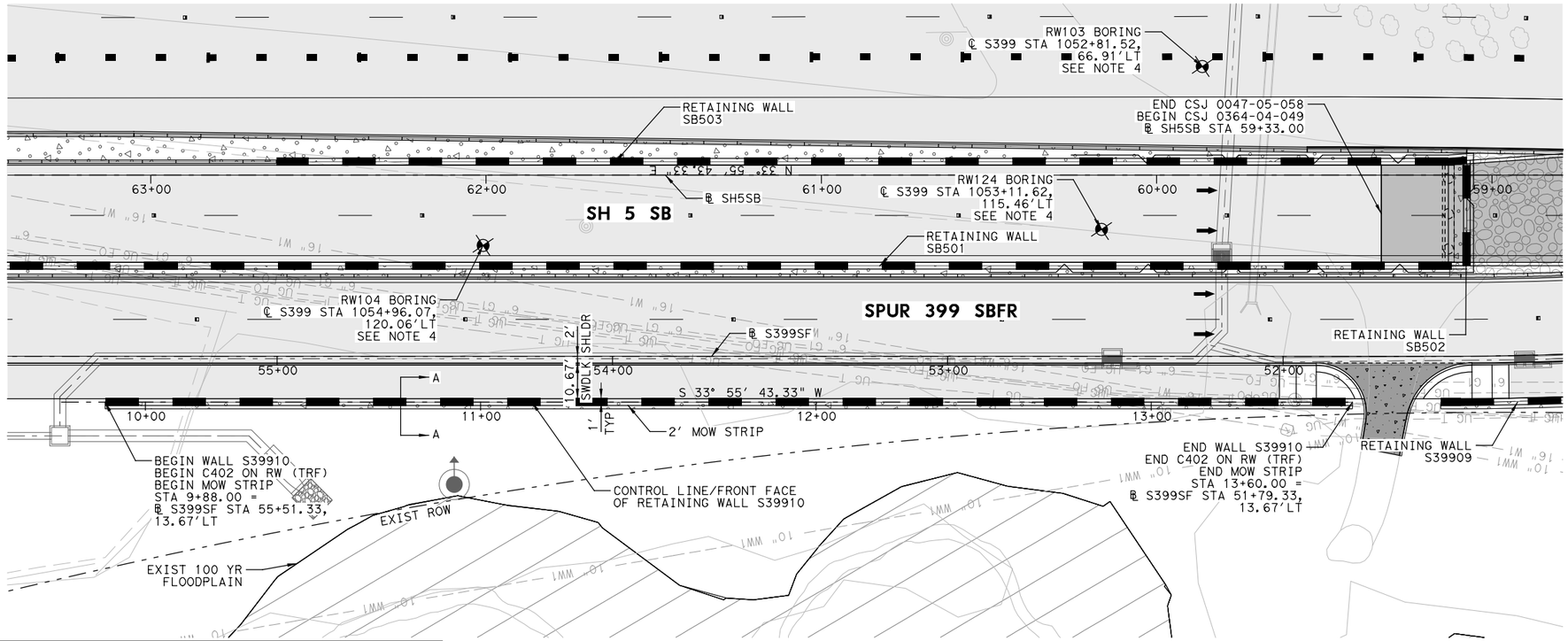
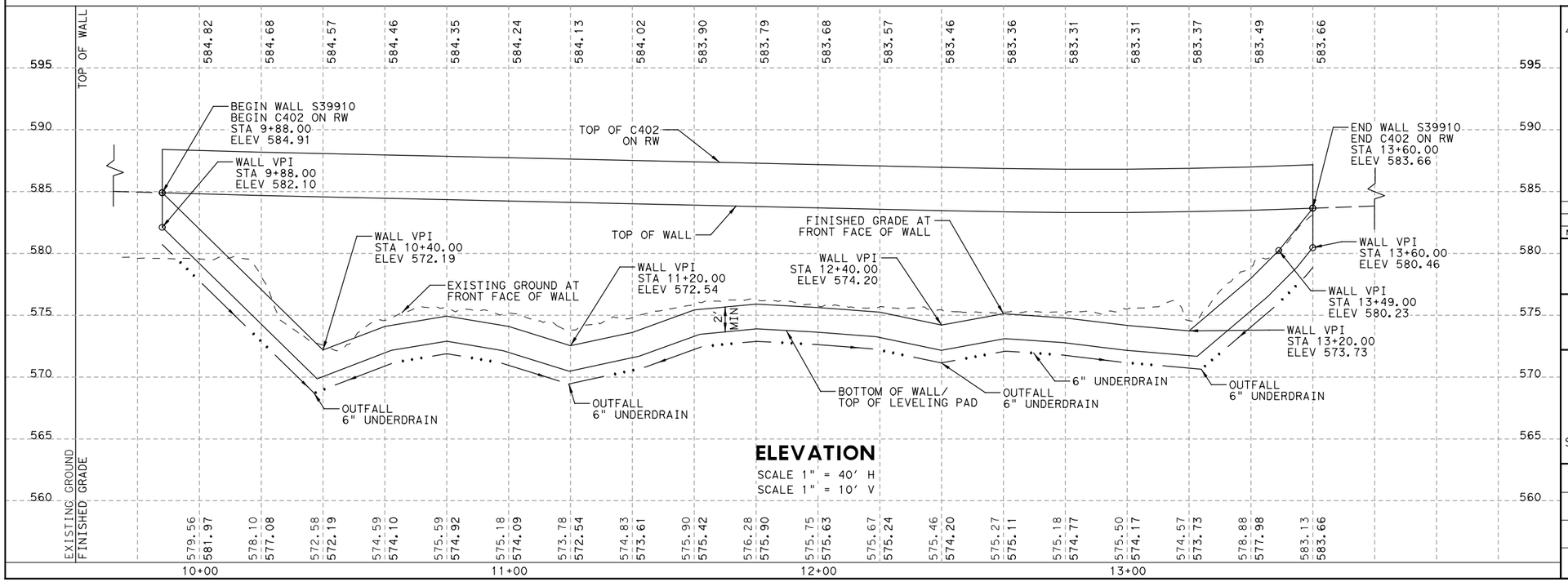
100% PLANS SUBMITTAL



S39910 RETAINING WALL QUANTITIES			
ITEM	DESCRIPTION	UNIT	QUANTITY
423-7001	RETAINING WALL (MSE)	SF	3976
432-7013	RIPRAP (MOW STRIP)(4 IN)	CY	10
450-7036	RAIL (TY C402)	LF	372
556-7006	PIPE UNDERDRAINS (TY 6) (6")	LF	375
740-7005	ANTI - GRAFFITI COATING (PERMNENT-TY II)	SF	3149

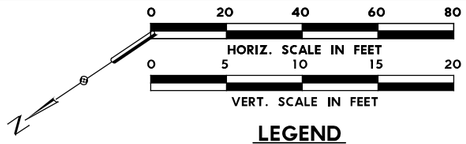
PLAN

SCALE 1" = 40'



ELEVATION

SCALE 1" = 40' H
SCALE 1" = 10' V



LEGEND

- PROPOSED TRAFFIC FLOW
- EXIST ROW
- PROP ROW
- PROP RETAINING WALL
- PROP TEMP SHORING WALL
- PROP PAVEMENT
- PROP BRIDGE/APPROACH SLAB
- EXIST 100 YEAR FLOODPLAIN
- PROP ROCK RIPRAP
- PROP CONCRETE RIPRAP

NOTES:

1. SEE RW(MSE)(DD)(MOD) DESIGN DATA FOR SOIL STRENGTH PARAMETERS AND EARTH REINFORCEMENT REQUIREMENTS. SEE GENERAL NOTES FOR TYPE OF FILL BEHIND MSE WALL.
2. UNLESS OTHERWISE NOTED IN THE PLANS, THE TOP OF THE LEVELING PAD IS LOCATED 2 FEET OR DEEPER BELOW THE FINISHED GRADE.
3. SURFACE AREA OF RETAINING WALL IS MEASURED FROM THE TOP OF RETAINING WALL TO THE TOP OF THE LEVELING PAD. FOOTING ADJUSTMENTS MADE IN THE FIELD ARE NOT MEASURED.
4. ◔ -DENOTES SOIL BORING LOCATION. SEE BORING LOG DATA SHEETS FOR MORE INFORMATION.
5. SEE DRAINAGE PLANS FOR MORE INFORMATION.
6. MOW STRIP SHALL BE CLASS "B" CONCRETE PER TXDOT ITEM 421. "HYDRAULIC CEMENT CONCRETE."
7. THE LOCATIONS OF EXISTING UTILITIES AND STRUCTURES SHOWN ARE BASED ON AVAILABLE SURVEY DATA. THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF ALL EXISTING UTILITIES AND STRUCTURES, AND NOTIFY ENGINEER OF ANY CONFLICTS BEFORE COMMENCING WORK.
8. SEE RW(MSE), RW(EM), RW(RI) AND RW(TRF) STANDARDS FOR ADDITIONAL DETAILS.
9. FOR OTHER DETAILS NOT SHOWN, SEE RETAINING WALL TYPICAL SECTIONS SHEET.
10. SEE TYPE SSTR/C402 RAIL FOR ADDITIONAL DETAILS.
11. CEMENT STABILIZED BACKFILL IS NOT PERMITTED.

1 REVISED 11/14/2024

11/14/2024

STATE OF TEXAS
BRIAN VERWIJST
127741
LICENSED
PROFESSIONAL ENGINEER

NO.	DATE	REVISION	APPROVED

HDR Engineering, Inc.
Firm Registration No. F-754
17111 Preston Road, Suite 300
Dallas, Texas 75248
972.960.4400

SPUR 399
RETAINING WALL S39910
PLAN AND PROFILE

SCALE: 1"=40'-H
1"=10'-V

SHEET 1 OF 1

DESIGN	FED.RD. DIV.NO.	FEDERAL-AID PROJECT NO.		HIGHWAY NO.
JMD	6	SEE TITLE SHEET		SH5, ETC.
GRAPHICS	STATE	DISTRICT	COUNTY	SHEET NO.
AKS	TEXAS	DAL	COLLIN	
CHECK	CONTROL	SECTION	JOB	592
MH	0047	05	057, ETC.	
CHECK				
JMD				

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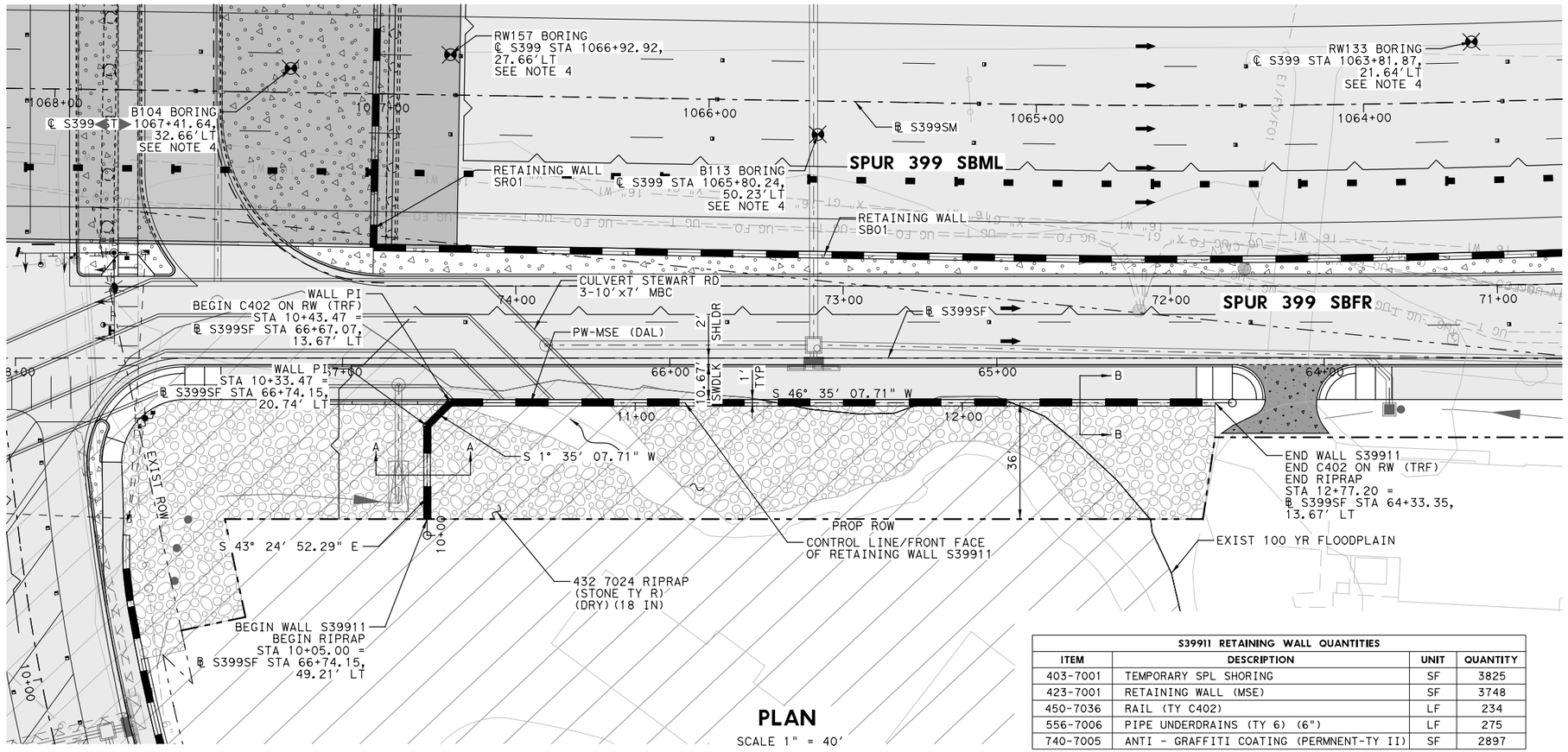
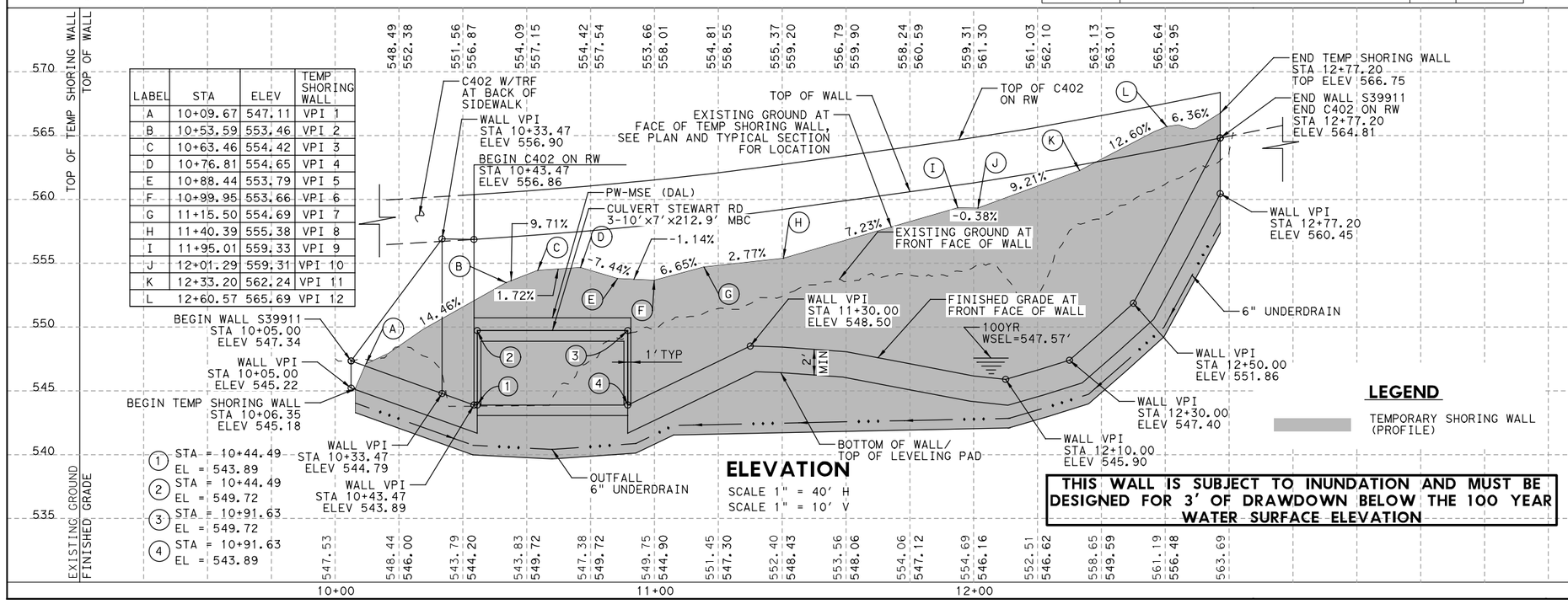
100% PLANS SUBMITTAL



PLAN

SCALE 1" = 40'

S39911 RETAINING WALL QUANTITIES			
ITEM	DESCRIPTION	UNIT	QUANTITY
403-7001	TEMPORARY SPL SHORING	SF	3825
423-7001	RETAINING WALL (MSE)	SF	3748
450-7036	RAIL (TY C402)	LF	234
556-7006	PIPE UNDERDRAINS (TY 6) (6")	LF	275
740-7005	ANTI - GRAFFITI COATING (PERMNENT-TY II)	SF	2897



LABEL	STA	ELEV	TEMP SHORING WALL
A	10+09.67	547.11	VPI 1
B	10+53.59	553.46	VPI 2
C	10+63.46	554.42	VPI 3
D	10+76.81	554.65	VPI 4
E	10+88.44	553.79	VPI 5
F	10+99.95	553.66	VPI 6
G	11+15.50	554.69	VPI 7
H	11+40.39	555.38	VPI 8
I	11+95.01	559.33	VPI 9
J	12+01.29	559.31	VPI 10
K	12+33.20	562.24	VPI 11
L	12+60.57	565.69	VPI 12

① STA = 10+44.49, EL = 543.89
② STA = 10+44.49, EL = 549.72
③ STA = 10+91.63, EL = 549.72
④ STA = 10+91.63, EL = 543.89

ELEVATION

SCALE 1" = 40' H
SCALE 1" = 10' V

LEGEND

TEMPORARY SHORING WALL (PROFILE)

THIS WALL IS SUBJECT TO INUNDATION AND MUST BE DESIGNED FOR 3' OF DRAWDOWN BELOW THE 100 YEAR WATER SURFACE ELEVATION

0 20 40 60 80
HORIZ. SCALE IN FEET
0 5 10 15 20
VERT. SCALE IN FEET

LEGEND

- PROPOSED TRAFFIC FLOW
- EXIST ROW
- PROP ROW
- PROP RETAINING WALL
- PROP TEMP SHORING WALL
- PROP PAVEMENT
- PROP BRIDGE/APPROACH SLAB
- EXIST 100 YEAR FLOODPLAIN
- PROP ROCK RIPRAP
- PROP CONCRETE RIPRAP

NOTES:

1. SEE RW(MSE)(DD)(MOD) DESIGN DATA FOR SOIL STRENGTH PARAMETERS AND EARTH REINFORCEMENT REQUIREMENTS. SEE GENERAL NOTES FOR TYPE OF FILL BEHIND MSE WALL.
2. UNLESS OTHERWISE NOTED IN THE PLANS, THE TOP OF THE LEVELING PAD IS LOCATED 2 FEET OR DEEPER BELOW THE FINISHED GRADE.
3. SURFACE AREA OF RETAINING WALL IS MEASURED FROM THE TOP OF RETAINING WALL TO THE TOP OF THE LEVELING PAD. FOOTING ADJUSTMENTS MADE IN THE FIELD ARE NOT MEASURED.
4. ◔ -DENOTES SOIL BORING LOCATION. SEE BORING LOG DATA SHEETS FOR MORE INFORMATION.
5. SEE DRAINAGE PLANS FOR MORE INFORMATION.
6. MOW STRIP SHALL BE CLASS "B" CONCRETE PER TXDOT ITEM 421. "HYDRAULIC CEMENT CONCRETE."
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8. SEE RW(MSE), RW(EM), RW(RI) AND RW(TRF) STANDARDS FOR ADDITIONAL DETAILS.
9. FOR OTHER DETAILS NOT SHOWN, SEE RETAINING WALL TYPICAL SECTIONS SHEET.
10. SEE TYPE SSTR/C402 RAIL FOR ADDITIONAL DETAILS.
11. CEMENT STABILIZED BACKFILL IS NOT PERMITTED.

1 REVISED 11/14/2024

11/14/2024

STATE OF TEXAS
BRIAN VERWIJST
127741
PROFESSIONAL ENGINEER
LICENSED

NO.	DATE	REVISION	APPROVED

HDR Engineering, Inc.
Firm Registration No. F-754
17111 Preston Road, Suite 300
Dallas, Texas 75248
972.960.4400

SPUR 399
RETAINING WALL S39911
PLAN AND PROFILE

SCALE: 1"=40'-H
1"=10'-V

SHEET 1 OF 1

DESIGN	FED.RD. DIV.NO.	FEDERAL-AID PROJECT NO.		HIGHWAY NO.
JMD	6	SEE TITLE SHEET		SH5, ETC.
GRAPHICS AKS	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK MH	TEXAS	DAL	COLLIN	594
CHECK JMD	CONTROL	SECTION	JOB	
	0047	05	057, ETC.	

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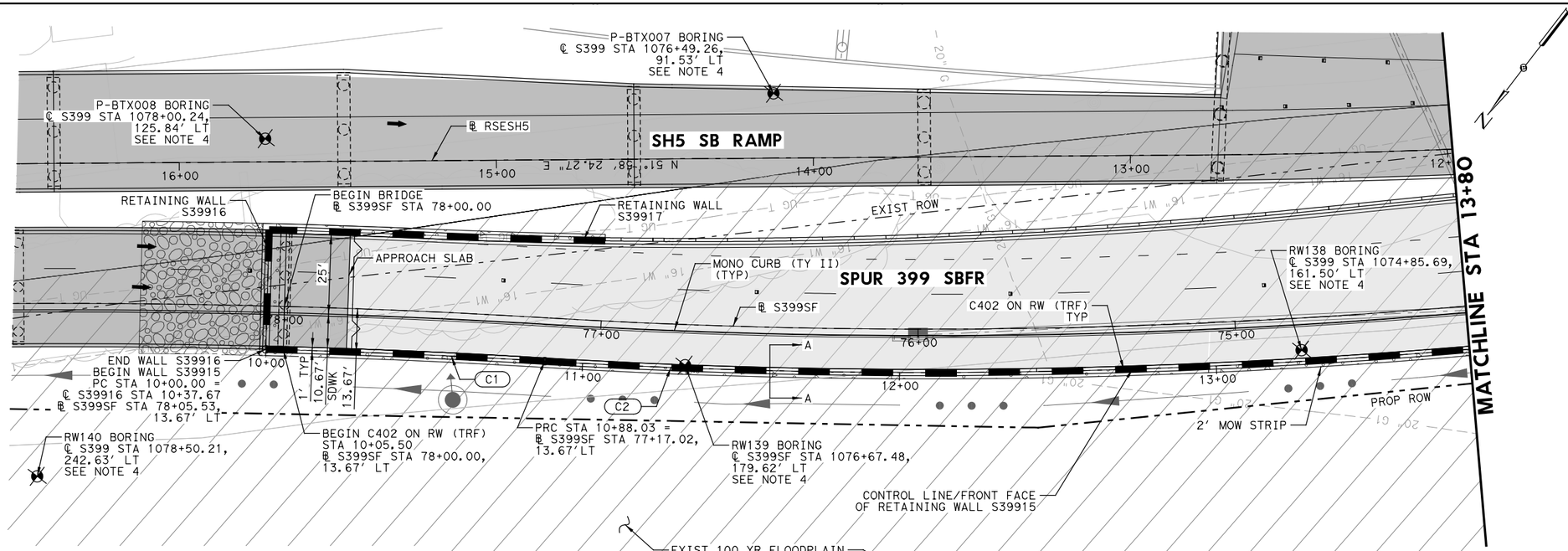
FINAL PLANS SUBMITTAL



PLAN

SCALE 1" = 40'

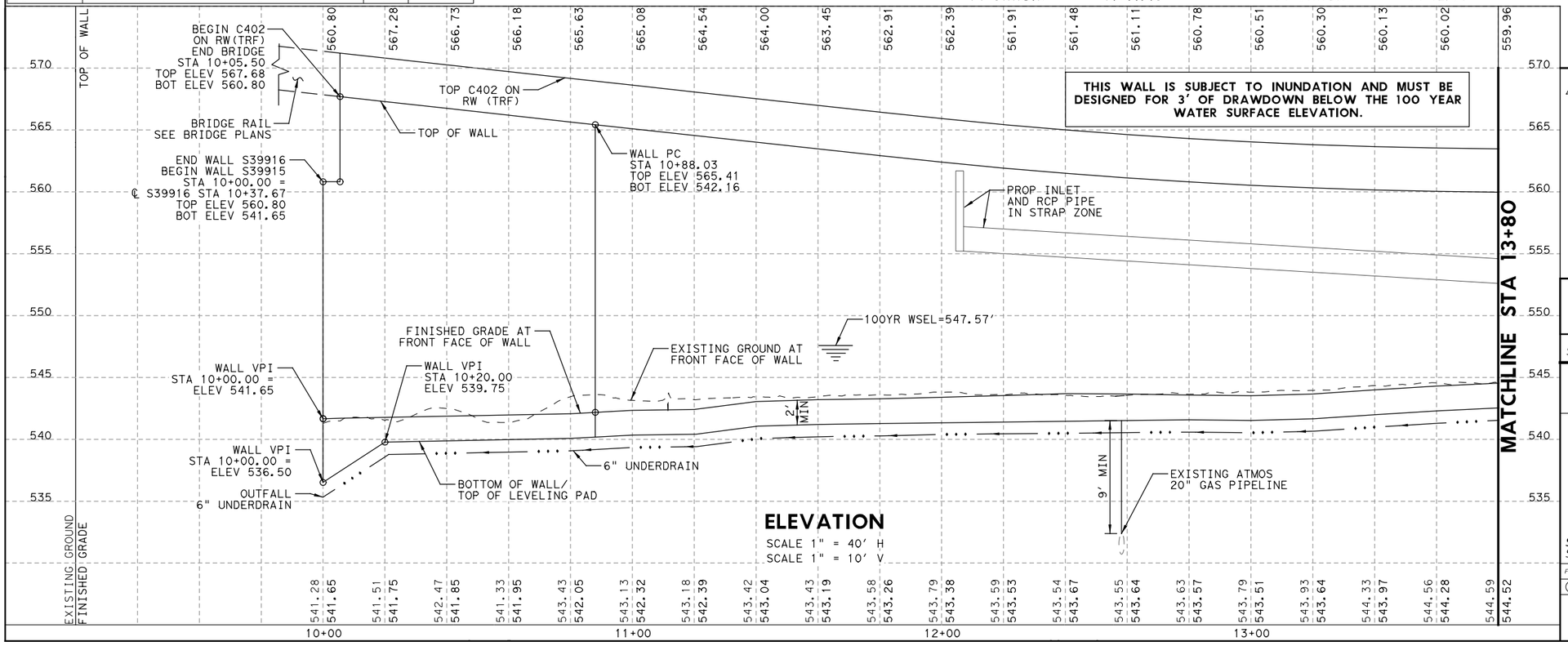
S39915 RETAINING WALL QUANTITIES			
ITEM	DESCRIPTION	UNIT	QUANTITY
423-7001	RETAINING WALL (MSE)	SF	8371
432-7013	RIPRAP (MOW STRIP)(4 IN)	CY	10
450-7036	RAIL (TY C402)	LF	375
556-7006	PIPE UNDERDRAINS (TY 6) (6")	LF	380
740-7005	ANTI - GRAFFITI COATING (PERMNENT-TY II)	SF	7567
247-7176	FL BS (CMP IN PLC)(TYA GR1-2)(FNAL POS)	CY	1364

HORIZONTAL CURVE DATA (C1)

PI STATION	= 10+44.02
DELTA	= 1° 59' 10.59" (RT)
DEGREE OF CURVE	= 2° 15' 22.80"
TANGENT	= 44.02
LENGTH	= 88.03
RADIUS	= 2,539.33
PC STATION	= 10+00.00
PT STATION	= 10+88.03

HORIZONTAL CURVE DATA (C2)

PI STATION	= 12+50.56
DELTA	= 9° 13' 44.10" (LT)
DEGREE OF CURVE	= 2° 50' 43.23"
TANGENT	= 162.53
LENGTH	= 324.35
RADIUS	= 2,013.67
PC STATION	= 10+88.03
PT STATION	= 14+12.38



ELEVATION

SCALE 1" = 40' H
SCALE 1" = 10' V

0 20 40 60 80
HORIZ. SCALE IN FEET
0 5 10 15 20
VERT. SCALE IN FEET

LEGEND

- PROPOSED TRAFFIC FLOW
- EXIST ROW
- PROP ROW
- PROP RETAINING WALL
- PROP TEMP SHORING WALL
- PROP PAVEMENT
- PROP BRIDGE/APPROACH SLAB
- EXIST 100 YEAR FLOODPLAIN
- PROP ROCK RIPRAP
- PROP CONCRETE RIPRAP

NOTES:

1. SEE RW(MSE)(DD)(MOD) DESIGN DATA FOR SOIL STRENGTH PARAMETERS AND EARTH REINFORCEMENT REQUIREMENTS. SEE GENERAL NOTES FOR TYPE OF FILL BEHIND MSE WALL.
2. UNLESS OTHERWISE NOTED IN THE PLANS, THE TOP OF THE LEVELING PAD IS LOCATED 2 FEET OR DEEPER BELOW THE FINISHED GRADE.
3. SURFACE AREA OF RETAINING WALL IS MEASURED FROM THE TOP OF RETAINING WALL TO THE TOP OF THE LEVELING PAD. FOOTING ADJUSTMENTS MADE IN THE FIELD ARE NOT MEASURED.
4. ◔ -DENOTES SOIL BORING LOCATION. SEE BORING LOG DATA SHEETS FOR MORE INFORMATION.
5. SEE DRAINAGE PLANS FOR MORE INFORMATION.
6. MOW STRIP SHALL BE CLASS "B" CONCRETE PER TXDOT ITEM 421. "HYDRAULIC CEMENT CONCRETE."
7. THE LOCATIONS OF EXISTING UTILITIES AND STRUCTURES SHOWN ARE BASED ON AVAILABLE SURVEY DATA. THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF ALL EXISTING UTILITIES AND STRUCTURES, AND NOTIFY ENGINEER OF ANY CONFLICTS BEFORE COMMENCING WORK.
8. SEE RW(MSE), RW(EM), RW(RI) AND RW(TRF) STANDARDS FOR ADDITIONAL DETAILS.
9. FOR OTHER DETAILS NOT SHOWN, SEE RETAINING WALL TYPICAL SECTIONS SHEET.
10. SEE TYPE SSTR/C402 RAIL FOR ADDITIONAL DETAILS.
11. CEMENT STABILIZED BACKFILL IS NOT PERMITTED.

1 REVISED 11/14/2024

11/14/2024

STATE OF TEXAS
BRIAN VERWIJST
127741
LICENSED
PROFESSIONAL ENGINEER

HDR Engineering, Inc.
Firm Registration No. F-754
17111 Preston Road, Suite 300
Dallas, Texas 75248
972.960.4400

Sheet 1 of 2 Sheets

Texas Department of Transportation | Dallas District Bridge

SPUR 399

RETAINING WALL S39915

PLAN AND PROFILE

BEGIN TO STA 13+80

SCALE:1"=40'-H
SCALE:1"=10'-V

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©TxDOT 2024	CONT	SECT	JOB	HIGHWAY
REVISIONS	0047	05	057, ETC.	SH5, ETC.
	DIST	COUNTY		SHEET NO.
	DAL	COLLIN		596

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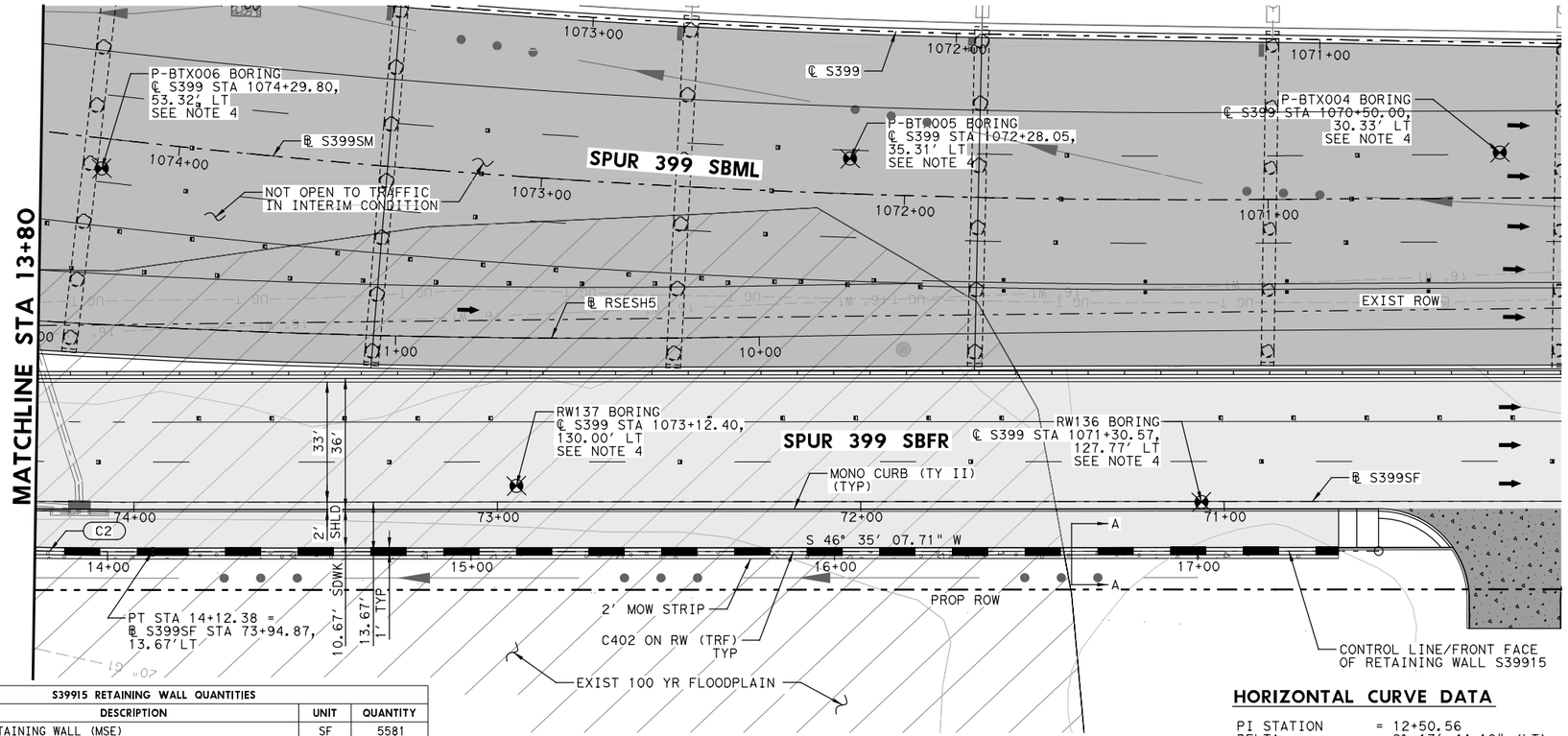
FINAL PLANS SUBMITTAL



PLAN

SCALE 1" = 40'

S39915 RETAINING WALL QUANTITIES			
ITEM	DESCRIPTION	UNIT	QUANTITY
423-7001	RETAINING WALL (MSE)	SF	5581
432-7013	RIPRAP (MOW STRIP)(4 IN)	CY	9
450-7036	RAIL (TY C402)	LF	359
556-7006	PIPE UNDERDRAINS (TY 6) (6")	LF	360
740-7005	ANTI - GRAFFITI COATING (PERMNENT-TY II)	SF	4675
247-7176	FL BS (CMP IN PLC)(TYA GR1-2)(FNAL POS)	CY	1625

HORIZONTAL CURVE DATA

C2

PI STATION	= 12+50.56
DELTA	= 9° 13' 44.10" (LT)
DEGREE OF CURVE	= 2° 50' 43.23"
TANGENT	= 162.53
LENGTH	= 324.35
RADIUS	= 2,013.67
PC STATION	= 10+88.03
PT STATION	= 14+12.38

0 20 40 60 80
HORIZ. SCALE IN FEET
0 5 10 15 20
VERT. SCALE IN FEET

LEGEND

- PROPOSED TRAFFIC FLOW
- EXIST ROW
- PROP ROW
- PROP RETAINING WALL
- PROP TEMP SHORING WALL
- PROP PAVEMENT
- PROP BRIDGE/APPROACH SLAB
- EXIST 100 YEAR FLOODPLAIN
- PROP ROCK RIPRAP
- PROP CONCRETE RIPRAP

NOTES:

1. SEE RW(MSE)(DD)(MOD) DESIGN DATA FOR SOIL STRENGTH PARAMETERS AND EARTH REINFORCEMENT REQUIREMENTS. SEE GENERAL NOTES FOR TYPE OF FILL BEHIND MSE WALL.
2. UNLESS OTHERWISE NOTED IN THE PLANS, THE TOP OF THE LEVELING PAD IS LOCATED 2 FEET OR DEEPER BELOW THE FINISHED GRADE.
3. SURFACE AREA OF RETAINING WALL IS MEASURED FROM THE TOP OF RETAINING WALL TO THE TOP OF THE LEVELING PAD. FOOTING ADJUSTMENTS MADE IN THE FIELD ARE NOT MEASURED.
4. ◔ -DENOTES SOIL BORING LOCATION. SEE BORING LOG DATA SHEETS FOR MORE INFORMATION.
5. SEE DRAINAGE PLANS FOR MORE INFORMATION.
6. MOW STRIP SHALL BE CLASS "B" CONCRETE PER TXDOT ITEM 421. "HYDRAULIC CEMENT CONCRETE."
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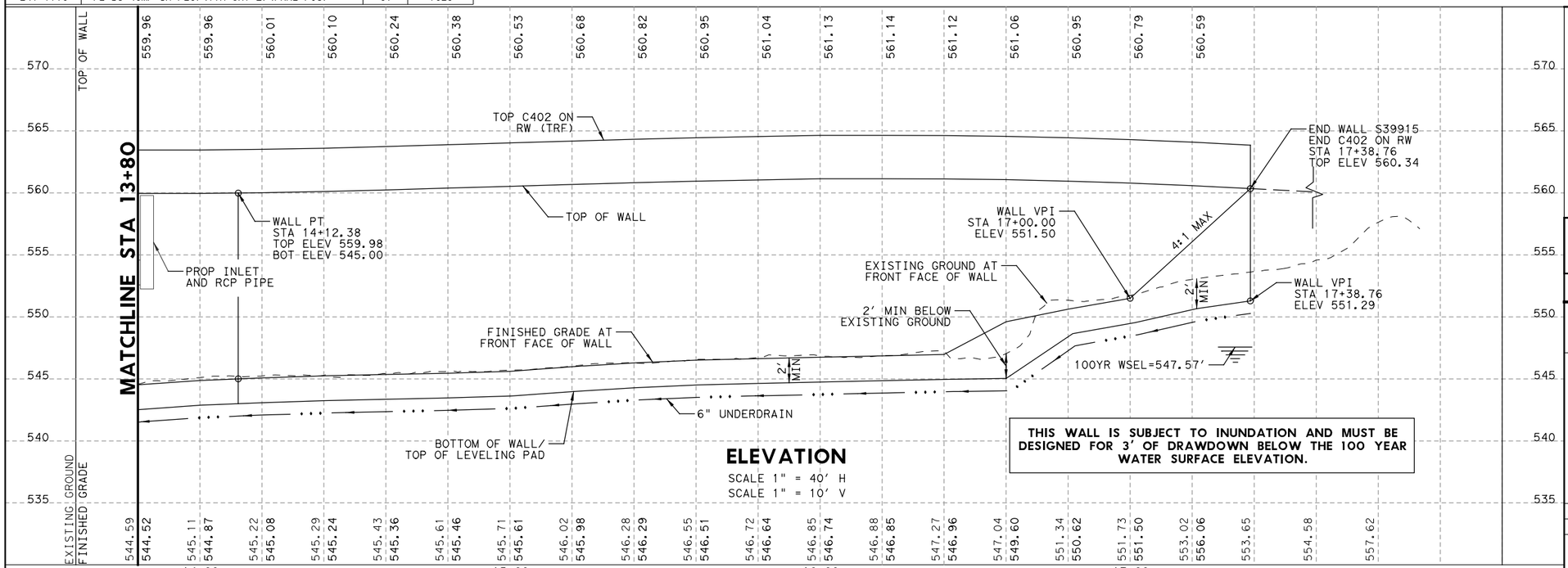
8. SEE RW(MSE), RW(EM), RW(RI) AND RW(TRF) STANDARDS FOR ADDITIONAL DETAILS.
9. FOR OTHER DETAILS NOT SHOWN, SEE RETAINING WALL TYPICAL SECTIONS SHEET.
10. SEE TYPE SSTR/C402 RAIL FOR ADDITIONAL DETAILS.
11. CEMENT STABILIZED BACKFILL IS NOT PERMITTED.



ELEVATION

SCALE 1" = 40' H
SCALE 1" = 10' V

THIS WALL IS SUBJECT TO INUNDATION AND MUST BE DESIGNED FOR 3' OF DRAWDOWN BELOW THE 100 YEAR WATER SURFACE ELEVATION.

1 REVISED 11/14/2024

11/14/2024

STATE OF TEXAS
BRIAN VERWIJST
127741
LICENSED
PROFESSIONAL ENGINEER

HDR Engineering, Inc.
Firm Registration No. F-754
17111 Preston Road, Suite 300
Dallas, Texas 75248
972.960.4400

Sheet 2 of 2 Sheets

Texas Department of Transportation
Dallas District Bridge

SPUR 399

RETAINING WALL S39915

PLAN AND PROFILE

STA 13+80 TO END

SCALE:1"=40'-H
SCALE:1"=10'-V

FILE: S399WP15.dgn	DN: AKS	CK: MH	DW: AKS	CK: JMD
©TxDOT 2024	CONT	SECT	JOB	HIGHWAY
REVISIONS	0047	05	057, ETC.	SH5, ETC.
	DIST	COUNTY		SHEET NO.
	DAL	COLLIN		597

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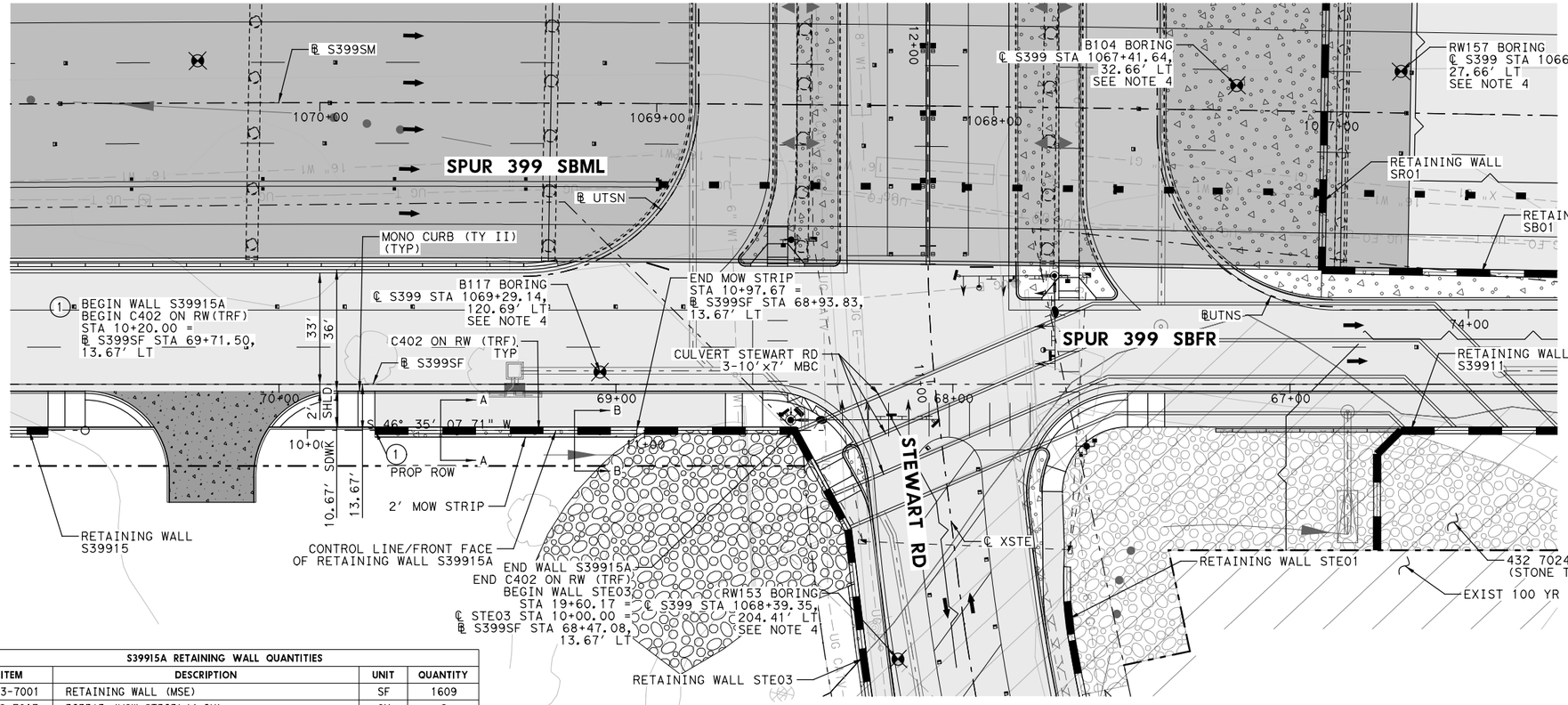
FILE: S399WP15.dgn

FINAL PLANS SUBMITTAL



PLAN

SCALE 1" = 40'

S39915A RETAINING WALL QUANTITIES			
ITEM	DESCRIPTION	UNIT	QUANTITY
423-7001	RETAINING WALL (MSE)	SF	1609
432-7013	RIPRAP (MOW STRIP)(4 IN)	CY	2
450-7036	RAIL (TY C402)	LF	125
556-7006	PIPE UNDERDRAINS (TY 6) (6")	LF	125
740-7005	ANTI - GRAFFITI COATING (PERMNENT-TY II)	SF	1106

HORIZ. SCALE IN FEET: 0 20 40 60 80

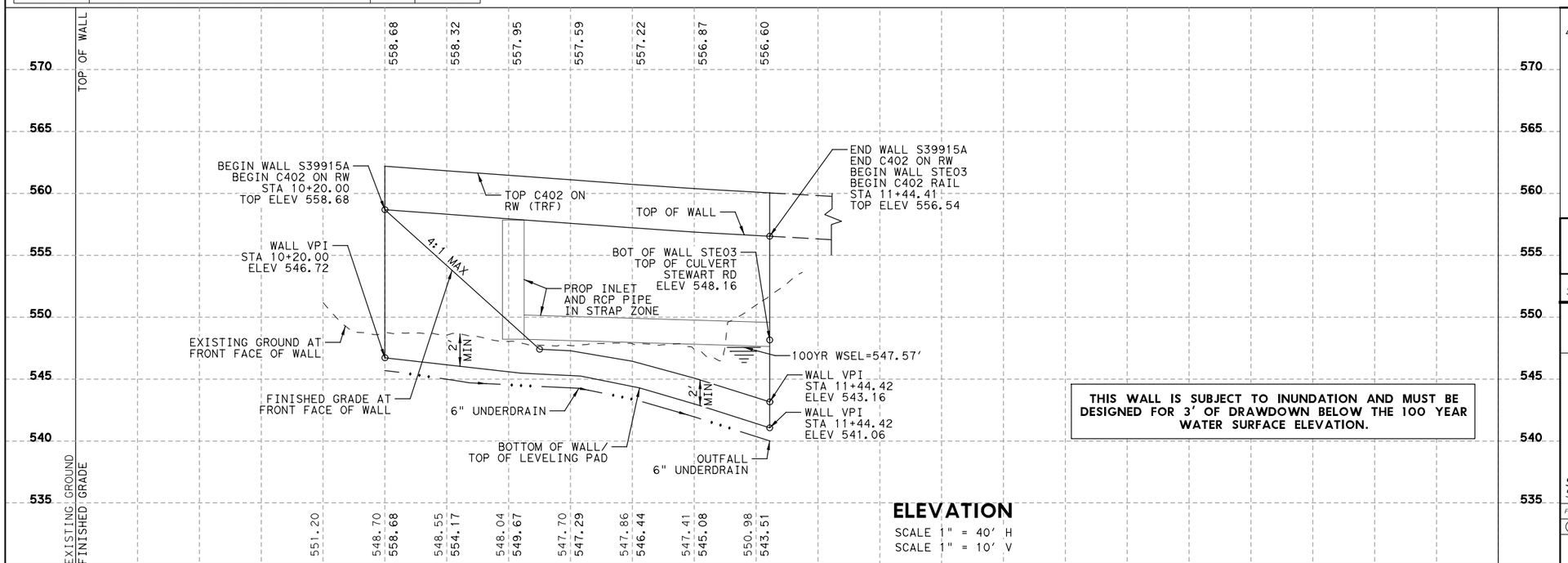
VERT. SCALE IN FEET: 0 5 10 15 20

LEGEND

- PROPOSED TRAFFIC FLOW
- EXIST ROW
- PROP ROW
- PROP RETAINING WALL
- PROP TEMP SHORING WALL
- PROP PAVEMENT
- PROP BRIDGE/APPROACH SLAB
- EXIST 100 YEAR FLOODPLAIN
- PROP ROCK RIPRAP
- PROP CONCRETE RIPRAP

NOTES:

1. SEE RW(MSE)(DD)(MOD) DESIGN DATA FOR SOIL STRENGTH PARAMETERS AND EARTH REINFORCEMENT REQUIREMENTS. SEE GENERAL NOTES FOR TYPE OF FILL BEHIND MSE WALL.
2. UNLESS OTHERWISE NOTED IN THE PLANS, THE TOP OF THE LEVELING PAD IS LOCATED 2 FEET OR DEEPER BELOW THE FINISHED GRADE.
3. SURFACE AREA OF RETAINING WALL IS MEASURED FROM THE TOP OF RETAINING WALL TO THE TOP OF THE LEVELING PAD. FOOTING ADJUSTMENTS MADE IN THE FIELD ARE NOT MEASURED.
4. ◔ -DENOTES SOIL BORING LOCATION. SEE BORING LOG DATA SHEETS FOR MORE INFORMATION.
5. SEE DRAINAGE PLANS FOR MORE INFORMATION.
6. MOW STRIP SHALL BE CLASS "B" CONCRETE PER TXDOT ITEM 421. "HYDRAULIC CEMENT CONCRETE."
7. THE LOCATIONS OF EXISTING UTILITIES AND STRUCTURES SHOWN ARE BASED ON AVAILABLE SURVEY DATA. THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF ALL EXISTING UTILITIES AND STRUCTURES, AND NOTIFY ENGINEER OF ANY CONFLICTS BEFORE COMMENCING WORK.
8. SEE RW(MSE), RW(EM), RW(RI) AND RW(TRF) STANDARDS FOR ADDITIONAL DETAILS.
9. FOR OTHER DETAILS NOT SHOWN, SEE RETAINING WALL TYPICAL SECTIONS SHEET.
10. SEE TYPE SSTR/C402 RAIL FOR ADDITIONAL DETAILS.
11. CEMENT STABILIZED BACKFILL IS NOT PERMITTED.



THIS WALL IS SUBJECT TO INUNDATION AND MUST BE DESIGNED FOR 3' OF DRAWDOWN BELOW THE 100 YEAR WATER SURFACE ELEVATION.

ELEVATION

SCALE 1" = 40' H
SCALE 1" = 10' V

1 REVISED 11/14/2024

11/14/2024

STATE OF TEXAS
BRIAN VERWIJST
127741
LICENSED PROFESSIONAL ENGINEER

HDR Engineering, Inc.
Firm Registration No. F-754
17111 Preston Road, Suite 300
Dallas, Texas 75248
972.960.4400

Sheet 1 of 1 Sheets

Texas Department of Transportation

Dallas District Bridge

SPUR 399

RETAINING WALL S39915A

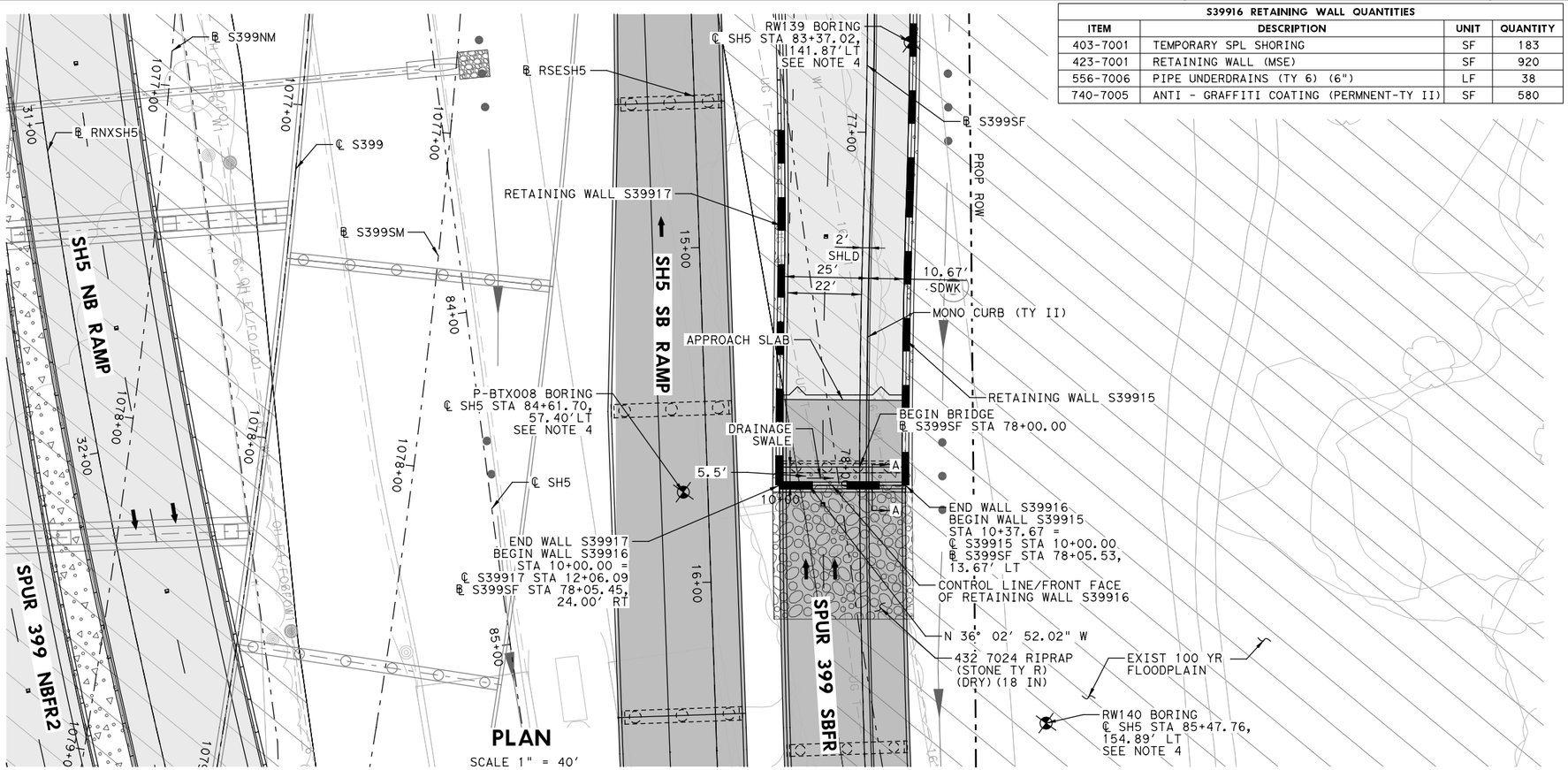
PLAN AND PROFILE

SCALE:1"=40'-H
SCALE:1"=10'-V

FILE: S399WP16.dgn	DN: AKS	CK: MH	DW: AKS	CK: JMD
©TxDOT 2024	CONT	SECT	JOB	HIGHWAY
REVISIONS	0047	05	057, ETC.	SH5, ETC.
	DIST	COUNTY		SHEET NO.
	DAL	COLLIN		599

PLOT DRIVER: TXDOT_PDF_BW.pltcfg PENTABLE: I08II5-SP399-SEGI.tbl
USER: ASRINIVASA DATE: II/14/2024 TIME: 402:13 PM CALE:1:40
FILE: S399WP16.dgn

FINAL PLANS SUBMITTAL



PLAN

SCALE 1" = 40'

S39916 RETAINING WALL QUANTITIES			
ITEM	DESCRIPTION	UNIT	QUANTITY
403-7001	TEMPORARY SPL SHORING	SF	183
423-7001	RETAINING WALL (MSE)	SF	920
556-7006	PIPE UNDERDRAINS (TY 6) (6")	LF	38
740-7005	ANTI - GRAFFITI COATING (PERMNENT-TY II)	SF	580

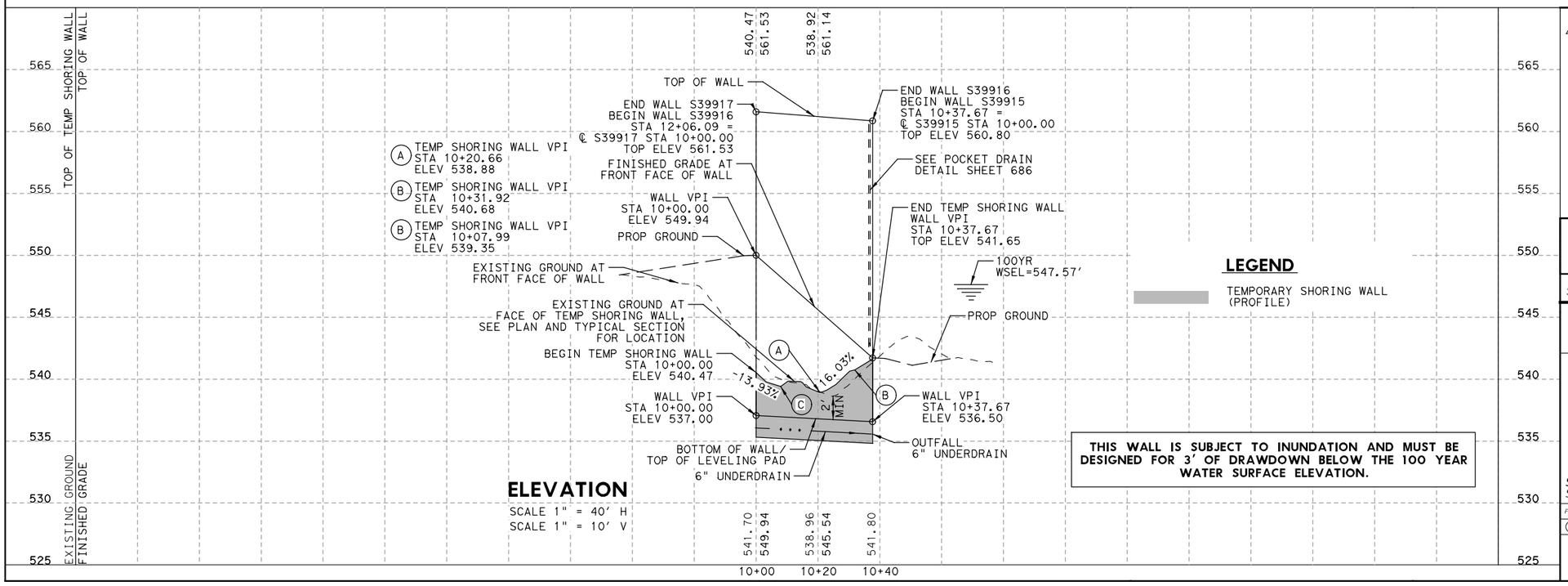
0 20 40 60 80
HORIZ. SCALE IN FEET
0 5 10 15 20
VERT. SCALE IN FEET

LEGEND

- PROPOSED TRAFFIC FLOW
- EXIST ROW
- PROP ROW
- PROP RETAINING WALL
- PROP TEMP SHORING WALL
- PROP PAVEMENT
- PROP BRIDGE/APPROACH SLAB
- EXIST 100 YEAR FLOODPLAIN
- PROP ROCK RIPRAP
- PROP CONCRETE RIPRAP

NOTES:

1. SEE RW(MSE)(DD)(MOD) DESIGN DATA FOR SOIL STRENGTH PARAMETERS AND EARTH REINFORCEMENT REQUIREMENTS. SEE GENERAL NOTES FOR TYPE OF FILL BEHIND MSE WALL.
2. UNLESS OTHERWISE NOTED IN THE PLANS, THE TOP OF THE LEVELING PAD IS LOCATED 2 FEET OR DEEPER BELOW THE FINISHED GRADE.
3. SURFACE AREA OF RETAINING WALL IS MEASURED FROM THE TOP OF RETAINING WALL TO THE TOP OF THE LEVELING PAD. FOOTING ADJUSTMENTS MADE IN THE FIELD ARE NOT MEASURED.
4. ◔ -DENOTES SOIL BORING LOCATION. SEE BORING LOG DATA SHEETS FOR MORE INFORMATION.
5. SEE DRAINAGE PLANS FOR MORE INFORMATION.
6. MOW STRIP SHALL BE CLASS "B" CONCRETE PER TXDOT ITEM 421. "HYDRAULIC CEMENT CONCRETE."
7. THE LOCATIONS OF EXISTING UTILITIES AND STRUCTURES SHOWN ARE BASED ON AVAILABLE SURVEY DATA. THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF ALL EXISTING UTILITIES AND STRUCTURES, AND NOTIFY ENGINEER OF ANY CONFLICTS BEFORE COMMENCING WORK.
8. SEE RW(MSE), RW(EM), RW(RI) AND RW(TRF) STANDARDS FOR ADDITIONAL DETAILS.
9. FOR OTHER DETAILS NOT SHOWN, SEE RETAINING WALL TYPICAL SECTIONS SHEET.
10. SEE TYPE SSTR/C402 RAIL FOR ADDITIONAL DETAILS.
11. CEMENT STABILIZED BACKFILL IS NOT PERMITTED.



ELEVATION

SCALE 1" = 40' H
SCALE 1" = 10' V

LEGEND

TEMPORARY SHORING WALL (PROFILE)

THIS WALL IS SUBJECT TO INUNDATION AND MUST BE DESIGNED FOR 3' OF DRAWDOWN BELOW THE 100 YEAR WATER SURFACE ELEVATION.

1 REVISED 11/14/2024

11/14/2024

STATE OF TEXAS
BRIAN VERWIJST
127741
LICENSED
PROFESSIONAL ENGINEER

HDR Engineering, Inc.
Firm Registration No. F-754
17111 Preston Road, Suite 300
Dallas, Texas 75248
972.960.4400

Sheet 1 of 1 Sheets

Texas Department of Transportation
Dallas District Bridge

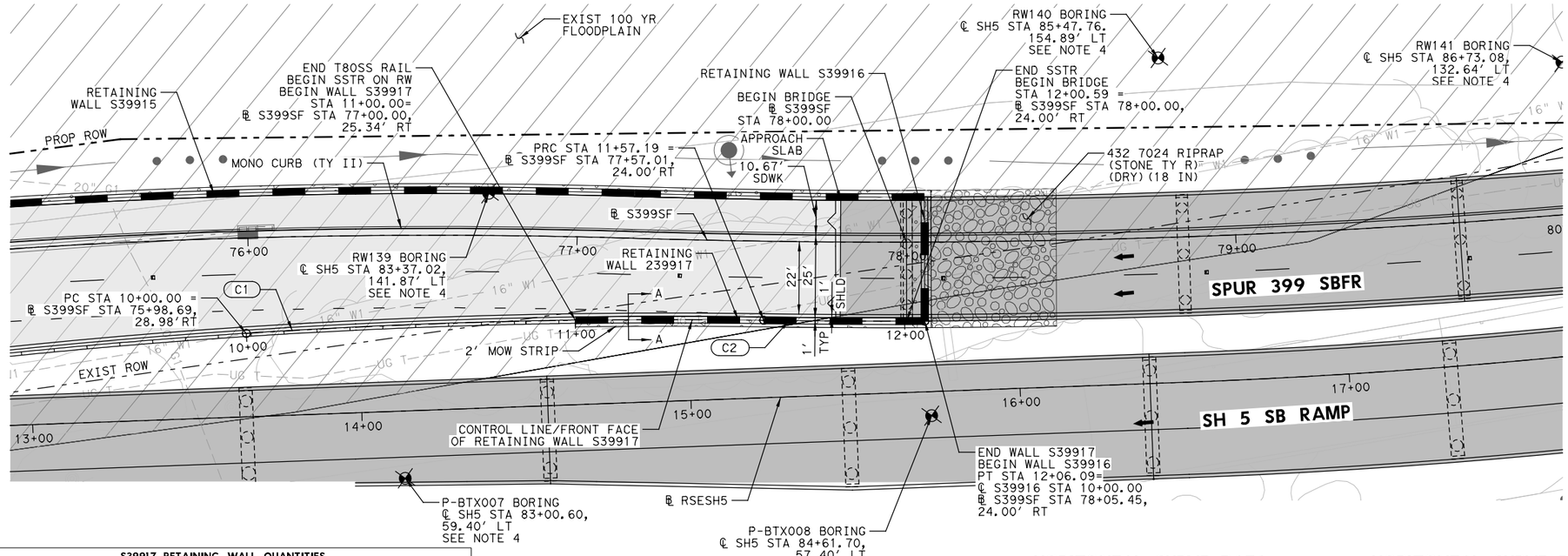
SPUR 399
RETAINING WALL S39916
PLAN AND PROFILE

SCALE:1"=40'-H
SCALE:1"=10'-V

FILE: S399WP17.dgn	DN: AKS	CK: MH	DW: AKS	CK: JMD
©TxDOT 2024	CONT	SECT	JOB	HIGHWAY
REVISIONS	0047	05	057, ETC.	SH5, ETC.
	DIST	COUNTY		SHEET NO.
	DAL	COLLIN		601

PLOT DRIVER: TXDOT_PDF_BW.pltcfg
USER: ASRINIVASA
FILE: S399WP17.dgn
PENTABLE: I08II5-SP399-SEGI.tbl
DATE: II/14/2024
TIME: 4:02:13 PM
CALE:1:40

FINAL PLANS SUBMITTAL



PLAN

SCALE 1" = 40'

S39917 RETAINING WALL QUANTITIES			
ITEM	DESCRIPTION	UNIT	QUANTITY
423-7001	RETAINING WALL (MSE)	SF	1716
432-7013	RIPRAP (MOW STRIP)(4 IN)	CY	3
450-7024	RAIL (TY SSTR)	LF	101
556-7006	PIPE UNDERDRAINS (TY 6) (6")	LF	110
740-7005	ANTI - GRAFFITI COATING (PERMNENT-TY II)	SF	907

HORIZONTAL CURVE DATA

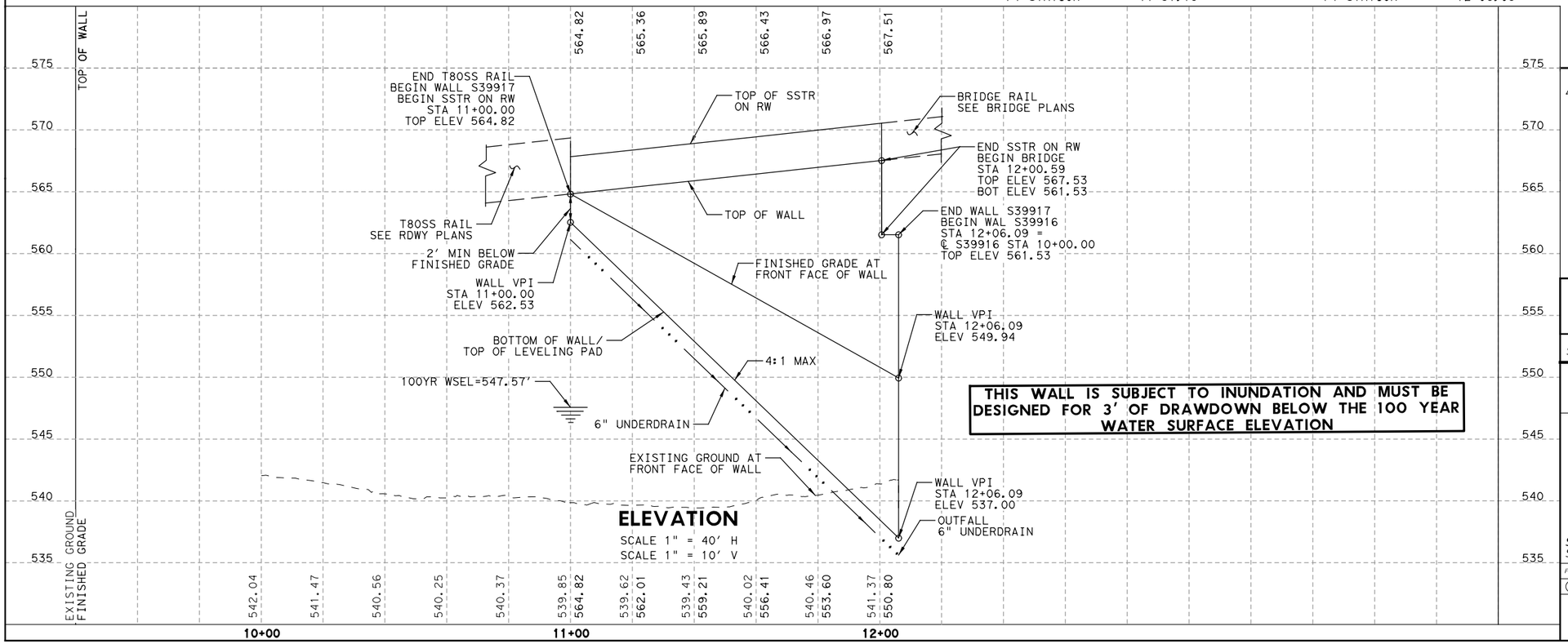
C1

PI STATION	= 10+78.64
DELTA	= 4° 35' 00.40" (RT)
DEGREE OF CURVE	= 2° 54' 56.94"
TANGENT	= 78.64
LENGTH	= 157.19
RADIUS	= 1,965.00
PC STATION	= 10+00.00
PT STATION	= 11+57.19

HORIZONTAL CURVE DATA

C2

PI STATION	= 11+81.64
DELTA	= 1° 05' 13.84" (LT)
DEGREE OF CURVE	= 2° 13' 24.07"
TANGENT	= 24.45
LENGTH	= 48.90
RADIUS	= 2577.00
PC STATION	= 11+57.19
PT STATION	= 12+06.09



ELEVATION

SCALE 1" = 40' H
SCALE 1" = 10' V

THIS WALL IS SUBJECT TO INUNDATION AND MUST BE DESIGNED FOR 3' OF DRAWDOWN BELOW THE 100 YEAR WATER SURFACE ELEVATION

0 20 40 60 80
HORIZ. SCALE IN FEET
0 5 10 15 20
VERT. SCALE IN FEET

LEGEND

- PROPOSED TRAFFIC FLOW
- EXIST ROW
- PROP ROW
- PROP RETAINING WALL
- PROP TEMP SHORING WALL
- PROP PAVEMENT
- PROP BRIDGE/APPROACH SLAB
- EXIST 100 YEAR FLOODPLAIN
- PROP ROCK RIPRAP
- PROP CONCRETE RIPRAP

NOTES:

1. SEE RW(MSE)(DD)(MOD) DESIGN DATA FOR SOIL STRENGTH PARAMETERS AND EARTH REINFORCEMENT REQUIREMENTS. SEE GENERAL NOTES FOR TYPE OF FILL BEHIND MSE WALL.
2. UNLESS OTHERWISE NOTED IN THE PLANS, THE TOP OF THE LEVELING PAD IS LOCATED 2 FEET OR DEEPER BELOW THE FINISHED GRADE.
3. SURFACE AREA OF RETAINING WALL IS MEASURED FROM THE TOP OF RETAINING WALL TO THE TOP OF THE LEVELING PAD. FOOTING ADJUSTMENTS MADE IN THE FIELD ARE NOT MEASURED.
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5. SEE DRAINAGE PLANS FOR MORE INFORMATION.
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8. SEE RW(MSE), RW(EM), RW(RI) AND RW(TRF) STANDARDS FOR ADDITIONAL DETAILS.
9. FOR OTHER DETAILS NOT SHOWN, SEE RETAINING WALL TYPICAL SECTIONS SHEET.
10. SEE TYPE SSTR/C402 RAIL FOR ADDITIONAL DETAILS.
11. CEMENT STABILIZED BACKFILL IS NOT PERMITTED.

1 REVISED 11/14/2024

11/14/2024

STATE OF TEXAS
BRIAN VERWIJST
127741
LICENSED
PROFESSIONAL ENGINEER

HDR Engineering, Inc.
Firm Registration No. F-754
17111 Preston Road, Suite 300
Dallas, Texas 75248
972.960.4400

Sheet 1 of 1 Sheets

Texas Department of Transportation

Dallas District Bridge

SPUR 399
RETAINING WALL S39917
PLAN AND PROFILE

SCALE:1"=40'-H
SCALE:1"=10'-V

FILE: S399WP18.dgn	DN: AKS	CK: MH	DW: AKS	CK: JMD
©TxDOT 2024	CONT	SECT	JOB	HIGHWAY
REVISIONS	0047	05	057, ETC.	SH5, ETC.
	DIST	COUNTY		SHEET NO.
	DAL	COLLIN		603

PLOT DRIVER: TXDOT_PDF_BW.pltcfg
USER: ASRINIVASA
FILE: S399WP18.dgn
DATE: 11/14/2024
TIME: 4:02:13 PM
CALE: 1:40
PENTABLE: I08I15-SP399-SEG1.tbl

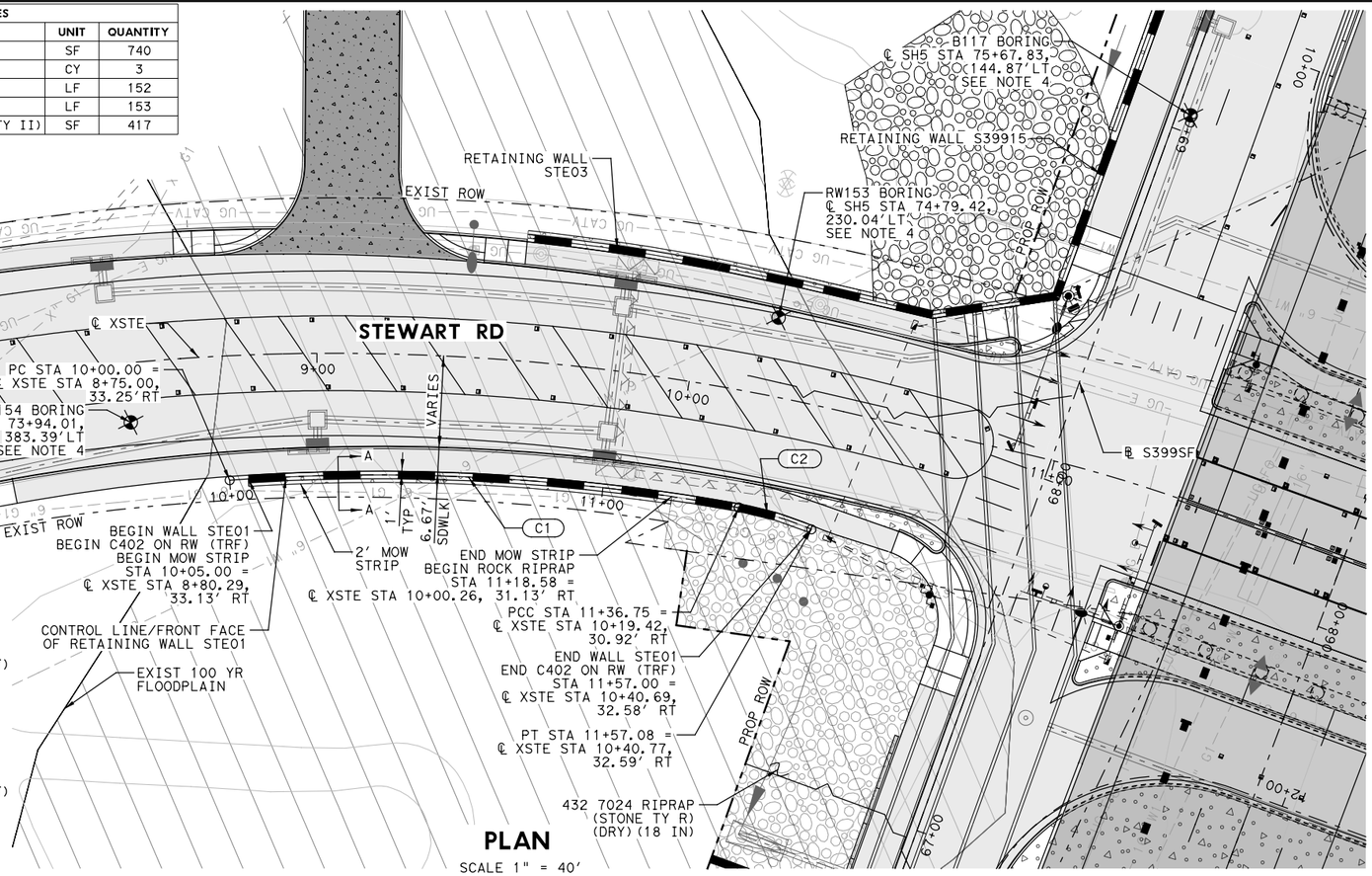
100% PLANS SUBMITTAL

STE01 RETAINING WALL QUANTITIES			
ITEM	DESCRIPTION	UNIT	QUANTITY
423-7001	RETAINING WALL (MSE)	SF	740
432-7013	RIPRAP (MOW STRIP)(4 IN)	CY	3
450-7036	RAIL (TY C402)	LF	152
556-7006	PIPE UNDERDRAINS (TY 6) (6")	LF	153
740-7005	ANTI - GRAFFITI COATING (PERMNENT-TY II)	SF	417

HORIZONTAL CURVE DATA

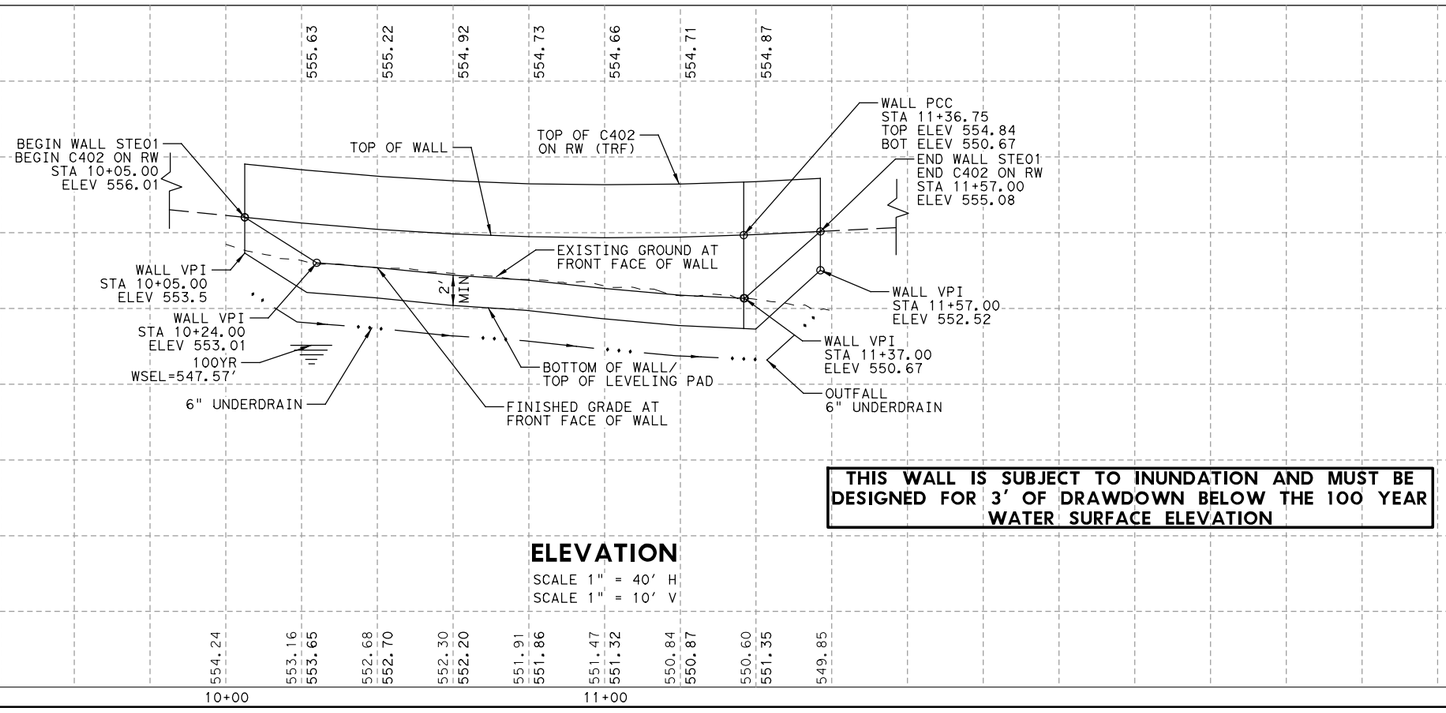
C1
- PI STATION = 10+68.74
- DELTA = 14° 26′ 49.84" (RT)
- DEGREE OF CURVE = 10° 33′ 53.08"
- TANGENT = 68.74
- LENGTH = 136.75
- RADIUS = 542.33
- PC STATION = 10+00.00
- PT STATION = 11+36.75

C2
- PI STATION = 11+46.96
- DELTA = 12° 48′ 03.13" (RT)
- DEGREE OF CURVE = 62° 57′ 44.62"
- TANGENT = 10.21
- LENGTH = 20.33
- RADIUS = 91.00
- PC STATION = 11+36.75
- PT STATION = 11+57.08



PLAN

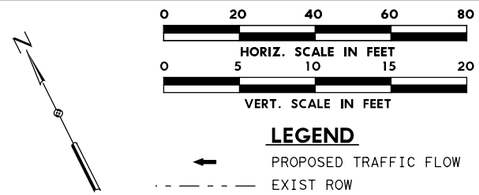
SCALE 1" = 40′



THIS WALL IS SUBJECT TO INUNDATION AND MUST BE DESIGNED FOR 3′ OF DRAWDOWN BELOW THE 100 YEAR WATER SURFACE ELEVATION

ELEVATION

SCALE 1" = 40′ H
SCALE 1" = 10′ V



LEGEND

- PROPOSED TRAFFIC FLOW
- EXIST ROW
- PROP ROW
- PROP RETAINING WALL
- PROP TEMP SHORING WALL
- PROP PAVEMENT
- PROP BRIDGE/APPROACH SLAB
- EXIST 100 YEAR FLOODPLAIN
- PROP ROCK RIPRAP
- PROP CONCRETE RIPRAP

NOTES:
1. SEE RW(MSE)(DD)(MOD) DESIGN DATA FOR SOIL STRENGTH PARAMETERS AND EARTH REINFORCEMENT REQUIREMENTS. SEE GENERAL NOTES FOR TYPE OF FILL BEHIND MSE WALL.
2. UNLESS OTHERWISE NOTED IN THE PLANS, THE TOP OF THE LEVELING PAD IS LOCATED 2 FEET OR DEEPER BELOW THE FINISHED GRADE.
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4. ◔ -DENOTES SOIL BORING LOCATION. SEE BORING LOG DATA SHEETS FOR MORE INFORMATION.
5. SEE DRAINAGE PLANS FOR MORE INFORMATION.
6. MOW STRIP SHALL BE CLASS "B" CONCRETE PER TXDOT ITEM 421. "HYDRAULIC CEMENT CONCRETE."
7. THE LOCATIONS OF EXISTING UTILITIES AND STRUCTURES SHOWN ARE BASED ON AVAILABLE SURVEY DATA. THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF ALL EXISTING UTILITIES AND STRUCTURES, AND NOTIFY ENGINEER OF ANY CONFLICTS BEFORE COMMENCING WORK.
8. SEE RW(MSE), RW(EM), RW(RI) AND RW(TRF) STANDARDS FOR ADDITIONAL DETAILS.
9. FOR OTHER DETAILS NOT SHOWN, SEE RETAINING WALL TYPICAL SECTIONS SHEET.
10. SEE TYPE SSTR/C402 RAIL FOR ADDITIONAL DETAILS.
11. CEMENT STABILIZED BACKFILL IS NOT PERMITTED.

1 REVISED 11/14/2024

11/14/2024

STATE OF TEXAS
BRIAN VERWIJST
127741
PROFESSIONAL ENGINEER
LICENSED

NO.	DATE	REVISION	APPROVED

HDR Engineering, Inc.
Firm Registration No. F-754
17111 Preston Road, Suite 300
Dallas, Texas 75248
972.960.4400

Texas Department of Transportation

SPUR 399
RETAINING WALL STE01
PLAN AND PROFILE

SCALE: 1"=40′-H
1"=10′-V

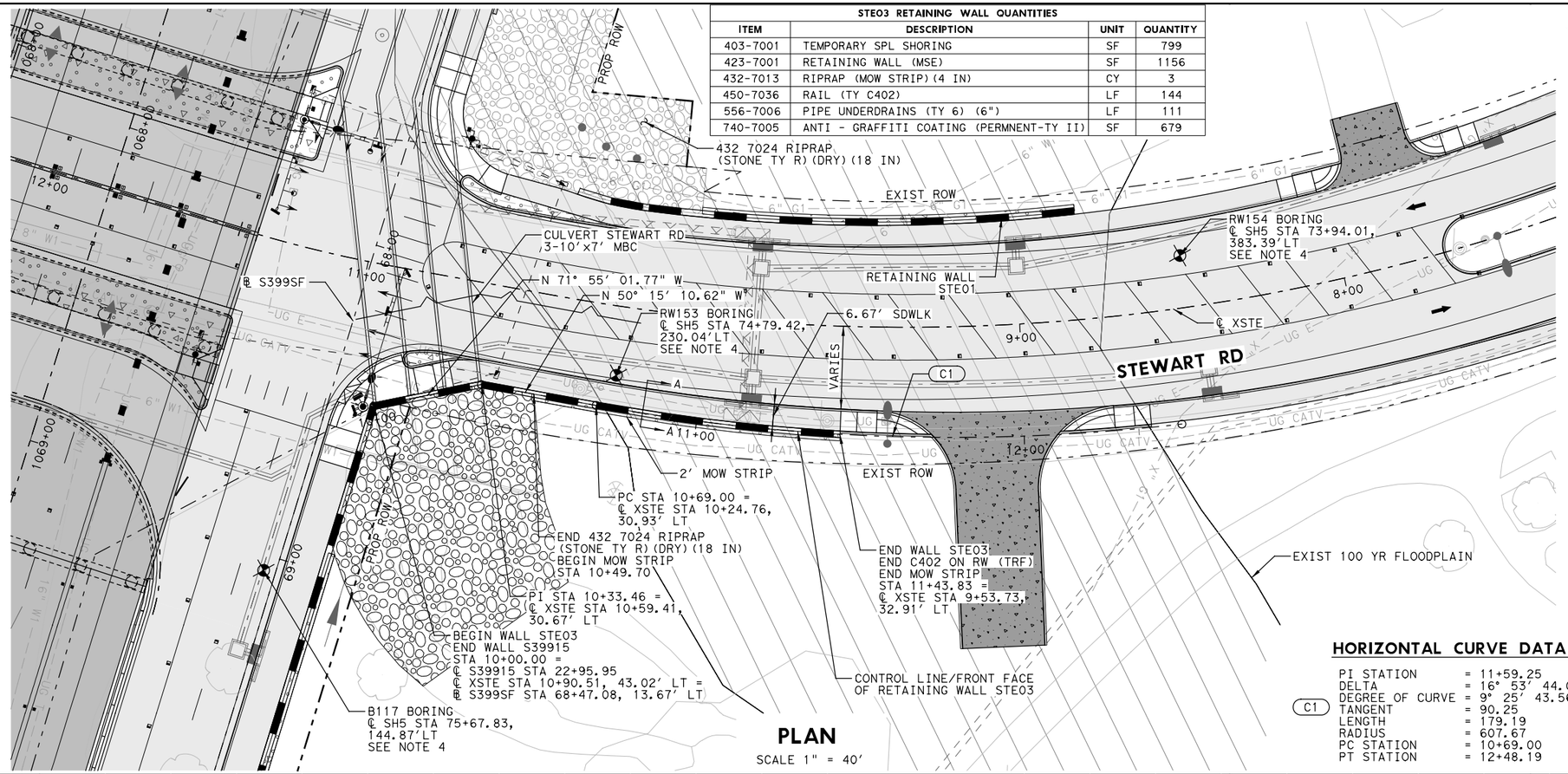
SHEET 1 OF 1

DESIGN	FED.RD. DIV.NO.	FEDERAL-AID PROJECT NO.		HIGHWAY NO.
JMD	6	SEE TITLE SHEET		SH5, ETC.
GRAPHICS: AKS	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK: MH	TEXAS	DAL	COLLIN	605
CHECK: JMD	CONTROL	SECTION	JOB	
	0047	05	057, ETC.	

PLOT DRIVER: TXDOT_PDF_BW.pltcfg
USER: ASRINIVASA
FILE: S399WPB0.dgn
PENTABLE: 10IBI15-SP399-SEG1.tbl
DATE: 11/14/2024
TIME: 4:02:3 PM
SCALE: 1:40

100% PLANS SUBMITTAL

STE03 RETAINING WALL QUANTITIES			
ITEM	DESCRIPTION	UNIT	QUANTITY
403-7001	TEMPORARY SPL SHORING	SF	799
423-7001	RETAINING WALL (MSE)	SF	1156
432-7013	RIPRAP (MOW STRIP)(4 IN)	CY	3
450-7036	RAIL (TY C402)	LF	144
556-7006	PIPE UNDERDRAINS (TY 6) (6")	LF	111
740-7005	ANTI - GRAFFITI COATING (PERMNENT-TY II)	SF	679



PLAN

SCALE 1" = 40'

HORIZONTAL CURVE DATA

C1

PI STATION	= 11+59.25
DELTA	= 16° 53' 44.06" (LT)
DEGREE OF CURVE	= 9° 25' 43.56"
TANGENT	= 90.25
LENGTH	= 179.19
RADIUS	= 607.67
PC STATION	= 10+69.00
PT STATION	= 12+48.19

0 20 40 60 80
HORIZ. SCALE IN FEET
0 5 10 15 20
VERT. SCALE IN FEET

LEGEND

- PROPOSED TRAFFIC FLOW
- EXIST ROW
- PROP ROW
- PROP RETAINING WALL
- PROP TEMP SHORING WALL
- PROP PAVEMENT
- PROP BRIDGE/APPROACH SLAB
- EXIST 100 YEAR FLOODPLAIN
- PROP ROCK RIPRAP
- PROP CONCRETE RIPRAP

NOTES:

1. SEE RW(MSE)(DD)(MOD) DESIGN DATA FOR SOIL STRENGTH PARAMETERS AND EARTH REINFORCEMENT REQUIREMENTS. SEE GENERAL NOTES FOR TYPE OF FILL BEHIND MSE WALL.
2. UNLESS OTHERWISE NOTED IN THE PLANS, THE TOP OF THE LEVELING PAD IS LOCATED 2 FEET OR DEEPER BELOW THE FINISHED GRADE.
3. SURFACE AREA OF RETAINING WALL IS MEASURED FROM THE TOP OF RETAINING WALL TO THE TOP OF THE LEVELING PAD. FOOTING ADJUSTMENTS MADE IN THE FIELD ARE NOT MEASURED.
4. ◔ -DENOTES SOIL BORING LOCATION. SEE BORING LOG DATA SHEETS FOR MORE INFORMATION.
5. SEE DRAINAGE PLANS FOR MORE INFORMATION.
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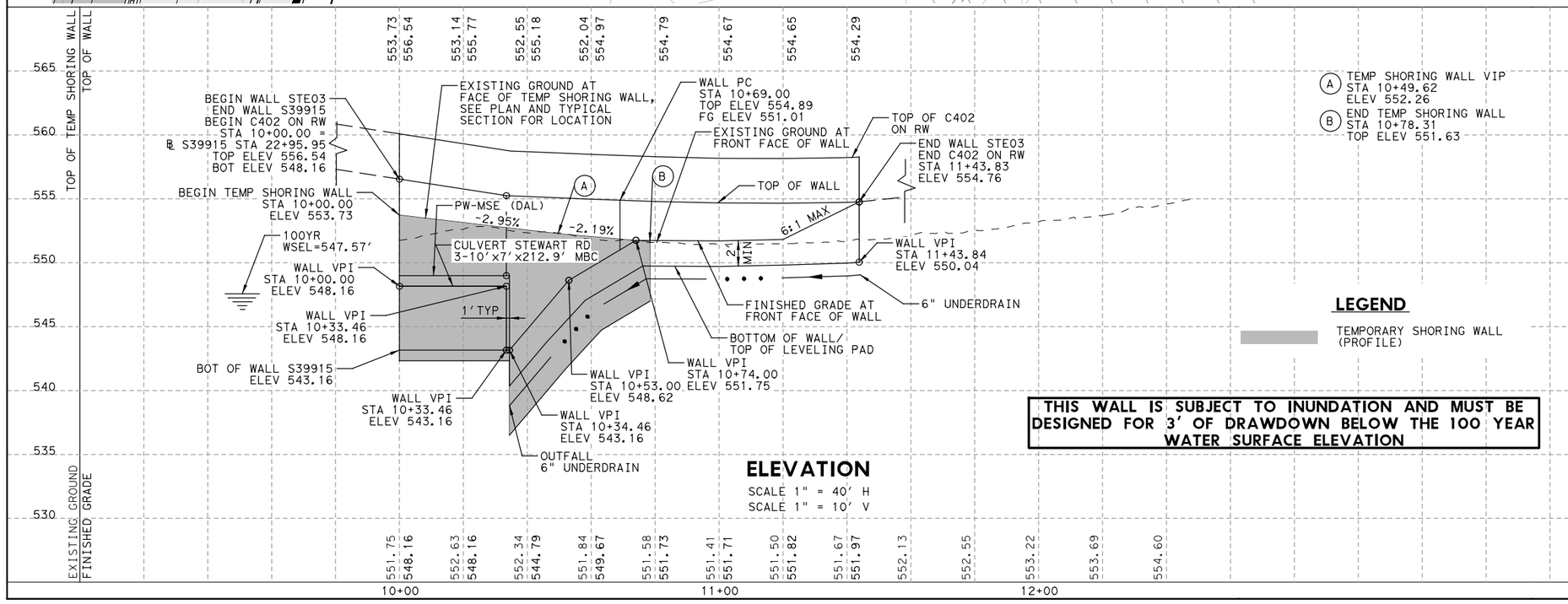
10. SEE TYPE SSTR/C402 RAIL FOR ADDITIONAL DETAILS.
11. CEMENT STABILIZED BACKFILL IS NOT PERMITTED.



ELEVATION

SCALE 1" = 40' H
SCALE 1" = 10' V

(A) TEMP SHORING WALL VIP
STA 10+49.62
ELEV 552.26

(B) END TEMP SHORING WALL
STA 10+78.31
TOP ELEV 551.63

LEGEND

TEMPORARY SHORING WALL (PROFILE)

THIS WALL IS SUBJECT TO INUNDATION AND MUST BE DESIGNED FOR 3' OF DRAWDOWN BELOW THE 100 YEAR WATER SURFACE ELEVATION

1 REVISED 11/14/2024

11/14/2024

STATE OF TEXAS
BRIAN VERWIJST
127741
LICENSED PROFESSIONAL ENGINEER

NO.	DATE	REVISION	APPROVED

HDR Engineering, Inc.
Firm Registration No. F-754
17111 Preston Road, Suite 300
Dallas, Texas 75248
972.960.4400

SPUR 399
RETAINING WALL STE03
PLAN AND PROFILE

SCALE: 1"=40'-H
1"=10'-V

SHEET 1 OF 1

DESIGN	FED.RD. DIV.NO.	FEDERAL-AID PROJECT NO.		HIGHWAY NO.
JMD	6	SEE TITLE SHEET		SH5, ETC.
GRAPHICS AKS	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK MH	TEXAS	DAL	COLLIN	607
CHECK JMD	CONTROL	SECTION	JOB	
	0047	05	057, ETC.	

PLOT DRIVER: TXDOT_PDF_BW.pltcfg
USER: ASRINVASA
FILE: S399WP81.dgn
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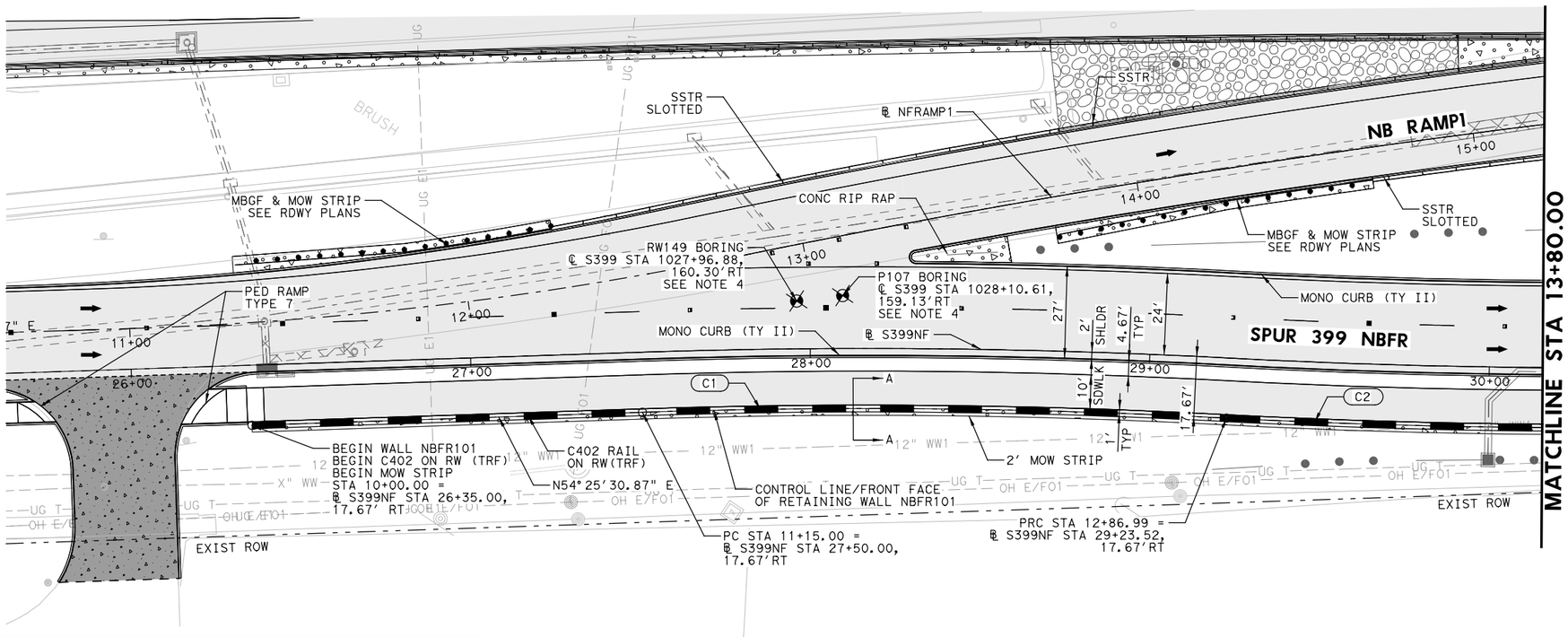
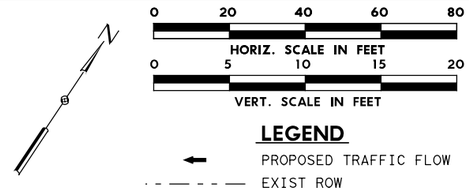
DATE: 11/14/2024
TIME: 4:02:13 PM
SCALE: 1:40

100% PLANS SUBMITTAL





LEGEND

- PROPOSED TRAFFIC FLOW
- EXIST ROW
- PROP ROW
- PROP RETAINING WALL
- PROP TEMP SHORING WALL
- PROP PAVEMENT
- PROP BRIDGE/APPROACH SLAB
- EXIST 100 YEAR FLOODPLAIN
- PROP ROCK RIPRAP
- PROP CONCRETE RIPRAP

NOTES:

1. SEE RW(MSE)(DD)(MOD) DESIGN DATA FOR SOIL STRENGTH PARAMETERS AND EARTH REINFORCEMENT REQUIREMENTS. SEE GENERAL NOTES FOR TYPE OF FILL BEHIND MSE WALL.
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9. FOR OTHER DETAILS NOT SHOWN, SEE RETAINING WALL TYPICAL SECTIONS SHEET.
10. SEE TYPE SSTR/C402 RAIL FOR ADDITIONAL DETAILS.
11. CEMENT STABILIZED BACKFILL IS NOT PERMITTED.

NBFR101 RETAINING WALL QUANTITIES

ITEM	DESCRIPTION	UNIT	QUANTITY
423-7001	RETAINING WALL (MSE)	SF	4678
432-7013	RIPRAP (MOW STRIP)(4 IN)	CY	10
450-7036	RAIL (TY C402)	LF	380
556-7006	PIPE UNDERDRAINS (TY 6) (6")	LF	381
740-7005	ANTI - GRAFFITI COATING (PERMNENT-TY II)	SF	3904

PLAN

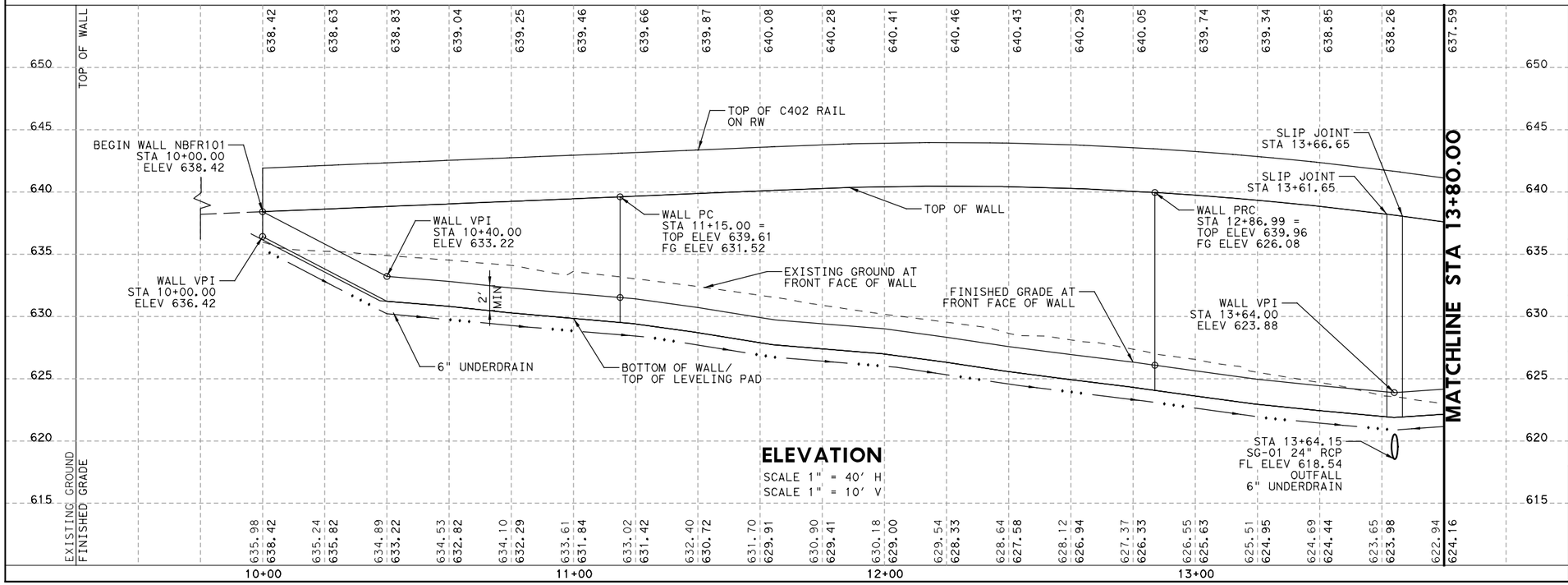
SCALE 1" = 40'

HORIZONTAL CURVE DATA (C1)

PI STATION	= 12+01.05
DELTA	= 4° 57' 48.64" (RT)
DEGREE OF CURVE	= 2° 53' 09.45"
TANGENT	= 86.05
LENGTH	= 171.99
RADIUS	= 1,985.33
PC STATION	= 11+15.00
PT STATION	= 12+86.99

HORIZONTAL CURVE DATA (C2)

PI STATION	= 13+74.31
DELTA	= 4° 57' 48.64" (LT)
DEGREE OF CURVE	= 2° 50' 38.14"
TANGENT	= 87.32
LENGTH	= 174.53
RADIUS	= 2,014.67
PC STATION	= 12+86.99
PT STATION	= 14+61.52



ELEVATION

SCALE 1" = 40' H
SCALE 1" = 10' V

1 REVISED 11/14/2024

11/14/2024

STATE OF TEXAS
BRIAN VERWIJST
127741
LICENSED PROFESSIONAL ENGINEER

NO.	DATE	REVISION	APPROVED

HDR Engineering, Inc.
Firm Registration No. F-754
17111 Preston Road, Suite 300
Dallas, Texas 75248
972.960.4400

Texas Department of Transportation

SPUR 399
RETAINING WALL NBFR101 WITH NOISE WALL PLAN & PROFILE BEGIN TO STA 13+80

SCALE: 1"=40'-H
1"=10'-V

SHEET 1 OF 2

DESIGN	FED.RD. DIV.NO.	FEDERAL-AID PROJECT NO.		HIGHWAY NO.
AKS	6	SEE TITLE SHEET		SH5, ETC.
GRAPHICS	STATE	DISTRICT	COUNTY	SHEET NO.
AKS	TEXAS	DAL	COLLIN	
CHECK	CONTROL	SECTION	JOB	609
MH	0047	05	057, ETC.	
CHECK				
JMD				

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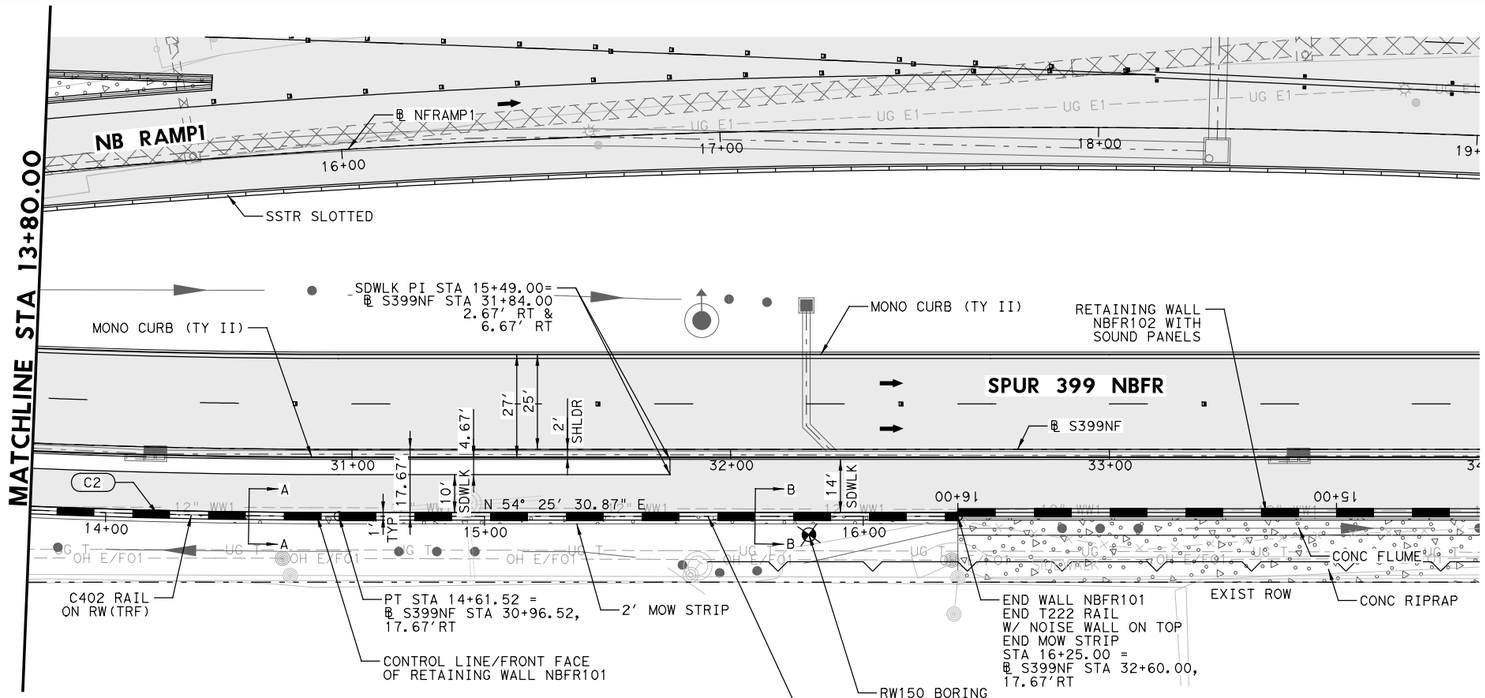
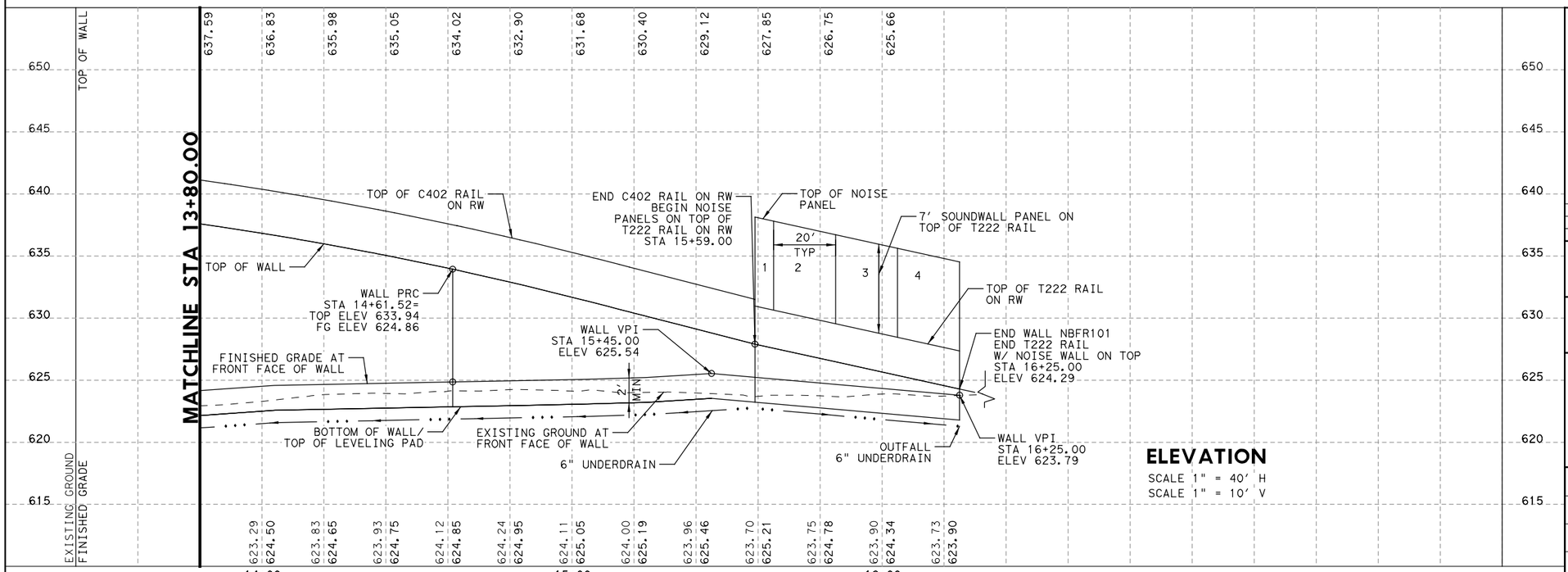
100% PLANS SUBMITTAL



PLAN

SCALE 1" = 40'

NBFR101 RETAINING WALL QUANTITIES			
ITEM	DESCRIPTION	UNIT	QUANTITY
423-7001	RETAINING WALL (MSE)	SF	2085
432-7013	RIPRAP (MOW STRIP)(4 IN)	CY	7
450-7036	RAIL (TY C402)	LF	179
556-7006	PIPE UNDERDRAINS (TY 6) (6")	LF	246
740-7005	ANTI - GRAFFITI COATING (PERMNENT-TY II)	SF	1594
419-7001	SOUND WALL	SF	475
450-7006	RAIL (TY T222)	LF	66



ELEVATION

SCALE 1" = 40' H
SCALE 1" = 10' V

HORIZONTAL CURVE DATA

C2

PI STATION	= 13+74.31
DELTA	= 4° 57' 48.64" (LT)
DEGREE OF CURVE	= 2° 50' 38.14"
TANGENT	= 87.32
LENGTH	= 174.53
RADIUS	= 2,014.67
PC STATION	= 12+86.99
PT STATION	= 14+61.52

0 20 40 60 80
HORIZ. SCALE IN FEET
0 5 10 15 20
VERT. SCALE IN FEET

LEGEND

- PROPOSED TRAFFIC FLOW
- EXIST ROW
- PROP ROW
- PROP RETAINING WALL
- PROP TEMP SHORING WALL
- PROP PAVEMENT
- PROP BRIDGE/APPROACH SLAB
- EXIST 100 YEAR FLOODPLAIN
- PROP ROCK RIPRAP
- PROP CONCRETE RIPRAP

NOTES:

1. SEE RW(MSE)(DD)(MOD) DESIGN DATA FOR SOIL STRENGTH PARAMETERS AND EARTH REINFORCEMENT REQUIREMENTS. SEE GENERAL NOTES FOR TYPE OF FILL BEHIND MSE WALL.
2. UNLESS OTHERWISE NOTED IN THE PLANS, THE TOP OF THE LEVELING PAD IS LOCATED 2 FEET OR DEEPER BELOW THE FINISHED GRADE.
3. SURFACE AREA OF RETAINING WALL IS MEASURED FROM THE TOP OF RETAINING WALL TO THE TOP OF THE LEVELING PAD. FOOTING ADJUSTMENTS MADE IN THE FIELD ARE NOT MEASURED.
4. ◔ -DENOTES SOIL BORING LOCATION. SEE BORING LOG DATA SHEETS FOR MORE INFORMATION.
5. SEE DRAINAGE PLANS FOR MORE INFORMATION.
6. MOW STRIP SHALL BE CLASS "B" CONCRETE PER TXDOT ITEM 421. "HYDRAULIC CEMENT CONCRETE."
7. THE LOCATIONS OF EXISTING UTILITIES AND STRUCTURES SHOWN ARE BASED ON AVAILABLE SURVEY DATA. THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF ALL EXISTING UTILITIES AND STRUCTURES, AND NOTIFY ENGINEER OF ANY CONFLICTS BEFORE COMMENCING WORK.
8. SEE RW(MSE), RW(EM), RW(RI) AND RW(TRF) STANDARDS FOR ADDITIONAL DETAILS.
9. FOR OTHER DETAILS NOT SHOWN, SEE RETAINING WALL TYPICAL SECTIONS SHEET.
10. SEE TYPE SSTR/C402 RAIL FOR ADDITIONAL DETAILS.
11. CEMENT STABILIZED BACKFILL IS NOT PERMITTED.

1 REVISED 11/14/2024

STATE OF TEXAS
BRIAN VERWIJST
127741
LICENSED
PROFESSIONAL ENGINEER
11/14/2024

NO.	DATE	REVISION	APPROVED

HDR Engineering, Inc.
Firm Registration No. F-754
17111 Preston Road, Suite 300
Dallas, Texas 75248
972.960.4400

Texas Department of Transportation

SPUR 399
RETAINING WALL NBFR101 WITH NOISE WALL PLAN & PROFILE
STA 13+80 TO END

SCALE: 1"=40'-H
1"=10'-V

SHEET 2 OF 2

DESIGN	FED.RD. DIV.NO.	FEDERAL-AID PROJECT NO.		HIGHWAY NO.
AKS	6	SEE TITLE SHEET		SH5, ETC.
GRAPHICS	STATE	DISTRICT	COUNTY	SHEET NO.
AKS	TEXAS	DAL	COLLIN	
CHECK	CONTROL	SECTION	JOB	610
MH	0047	05	057, ETC.	
CHECK				
JMD				

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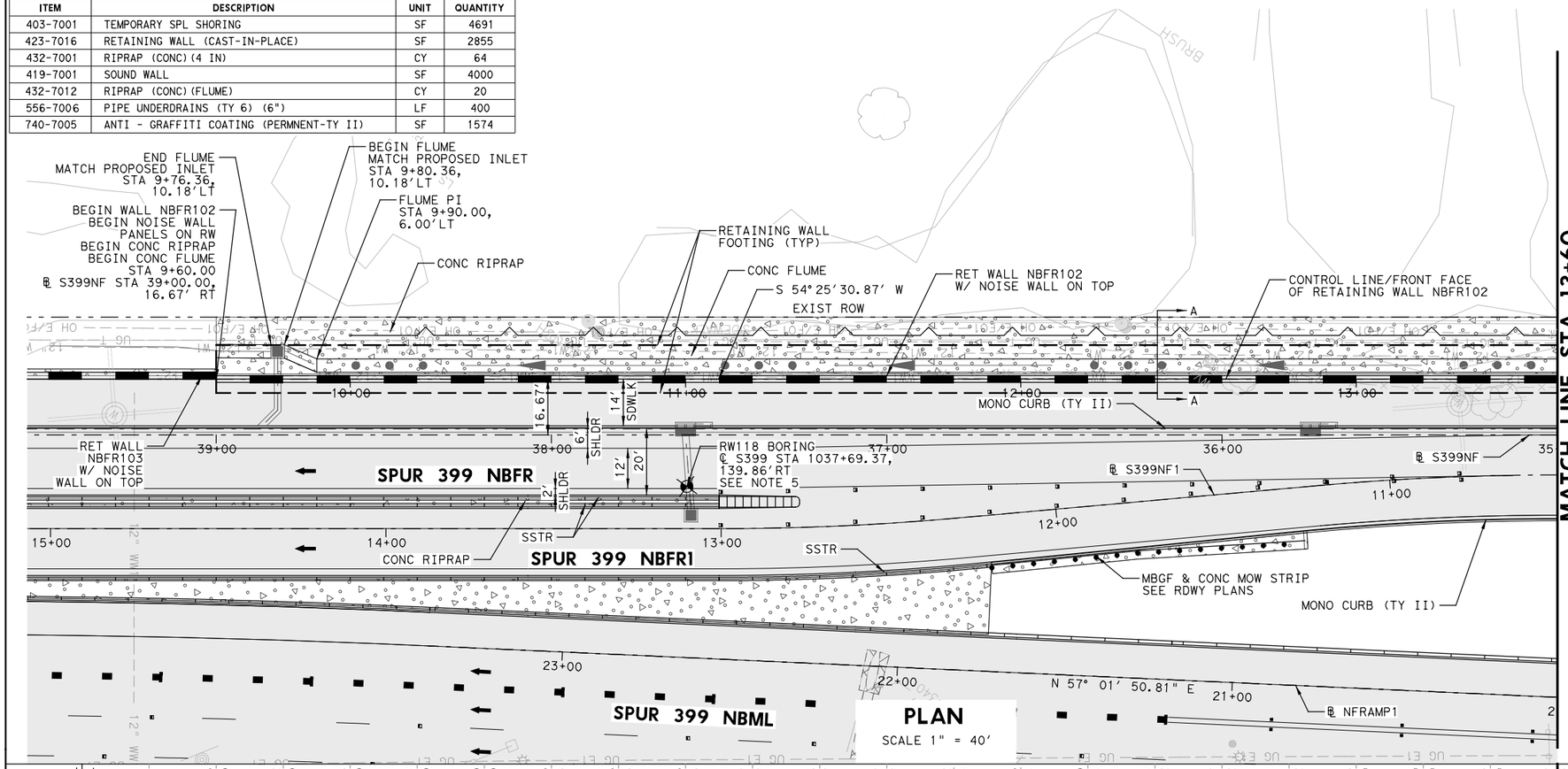
USER: ASRINIVASA DATE: 11/14/2024 TIME: 4:02:3 PM SCALE: 1:40
FILE: S399NP31.dgn

100% PLANS SUBMITTAL

NBFR102 RETAINING WALL QUANTITIES			
ITEM	DESCRIPTION	UNIT	QUANTITY
403-7001	TEMPORARY SPL SHORING	SF	4691
423-7016	RETAINING WALL (CAST-IN-PLACE)	SF	2855
432-7001	RIPRAP (CONC)(4 IN)	CY	64
419-7001	SOUND WALL	SF	4000
432-7012	RIPRAP (CONC)(FLUME)	CY	20
556-7006	PIPE UNDERDRAINS (TY 6) (6")	LF	400
740-7005	ANTI - GRAFFITI COATING (PERMNENT-TY II)	SF	1574



PLAN
SCALE 1" = 40'

0 20 40 60 80
HORIZ. SCALE IN FEET
0 5 10 15 20
VERT. SCALE IN FEET

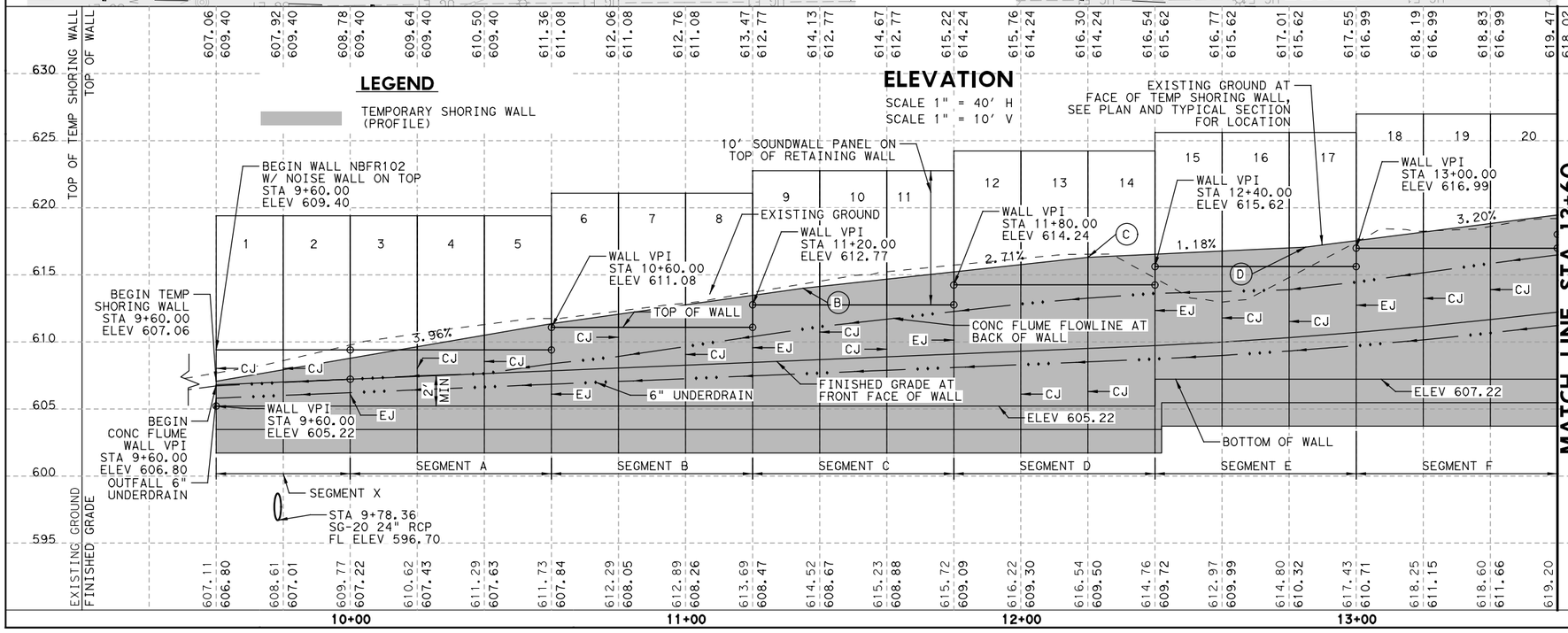
CJ: CONSTRUCTION JOINT
EJ: EXPANSION JOINT

LEGEND

- PROPOSED TRAFFIC FLOW
- EXIST ROW
- PROP ROW
- PROP RETAINING WALL
- PROP TEMP SHORING WALL
- PROP PAVEMENT
- PROP BRIDGE/APPROACH SLAB
- EXIST 100 YEAR FLOODPLAIN
- PROP ROCK RIPRAP
- PROP CONCRETE RIPRAP

NOTES:

1. SEE RW(SF)(MOD) AND RW(SFB)(MOD) STANDARDS FOR BACKFILL DESIGN ASSUMPTIONS AND OTHER DETAILS.
2. FOR GEOTECHNICAL INFORMATION, SEE THE FINAL GEOTECHNICAL ENGINEERING REPORT.
3. THE BOTTOM OF WALL IS LOCATED 2 FEET MINIMUM BELOW THE FINISHED GRADE OR THE EXISTING GRADE, WHICHEVER IS LOWER.
4. SURFACE AREA OF RETAINING WALL IS MEASURED FROM THE TOP OF RETAINING WALL TO THE BOTTOM OF THE RETAINING WALL. ADJUSTMENTS MADE IN THE FIELD ARE NOT MEASURED.
5. ◔ -DENOTES SOIL BORING LOCATION. SEE BORING LOG DATA SHEETS FOR MORE INFORMATION.
6. SEE ROADWAY AND DRAINAGE PLANS FOR MORE INFORMATION.
7. MOW STRIP SHALL BE CLASS "B" CONCRETE PER TXDOT ITEM 421, "HYDRAULIC CEMENT CONCRETE."
8. THE LOCATIONS OF EXISTING UTILITIES AND STRUCTURES SHOWN ARE BASED ON AVAILABLE SURVEY DATA. THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF ALL EXISTING UTILITIES AND STRUCTURES, AND NOTIFY ENGINEER OF ANY CONFLICTS BEFORE COMMENCING WORK.
9. FOR DETAILS OF NOISE WALL, SEE NOISE WALL DETAILS SHEET.
10. FOR OTHER DETAILS NOT SHOWN, SEE RETAINING WALL TYPICAL SECTIONS AND RETAINING WALL DETAILS SHEETS.



1 REVISED 11/14/2024

11/14/2024

STATE OF TEXAS · BRIAN VERWIJST · 127741 · LICENSED PROFESSIONAL ENGINEER

NO.	DATE	REVISION	APPROVED

HDR Engineering, Inc.
Firm Registration No. F-754
17111 Preston Road, Suite 300
Dallas, Texas 75248
972.960.4400

SPUR 399
RETAINING WALL NBFR102 WITH NOISE WALL PLAN & PROFILE BEGIN TO STA 13+60

SCALE: 1"=40'-H
1"=10'-V

SHEET 1 OF 2

DESIGN	FED.RD. DIV.NO.	FEDERAL-AID PROJECT NO.		HIGHWAY NO.
JMD	6	SEE TITLE SHEET		SH5, ETC.
GRAPHICS AKS	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK MH	TEXAS	DAL	COLLIN	614
CHECK JMD	CONTROL	SECTION	JOB	
	0047	05	057, ETC.	

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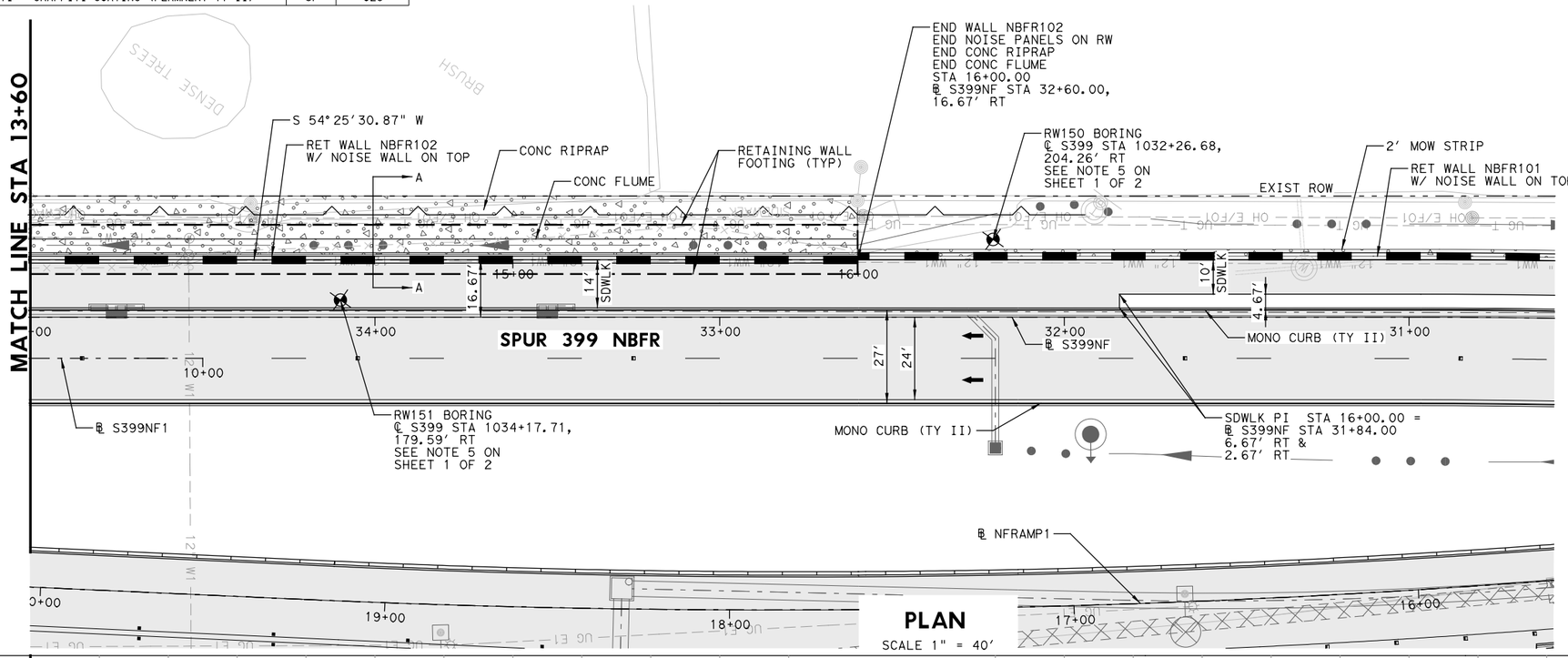
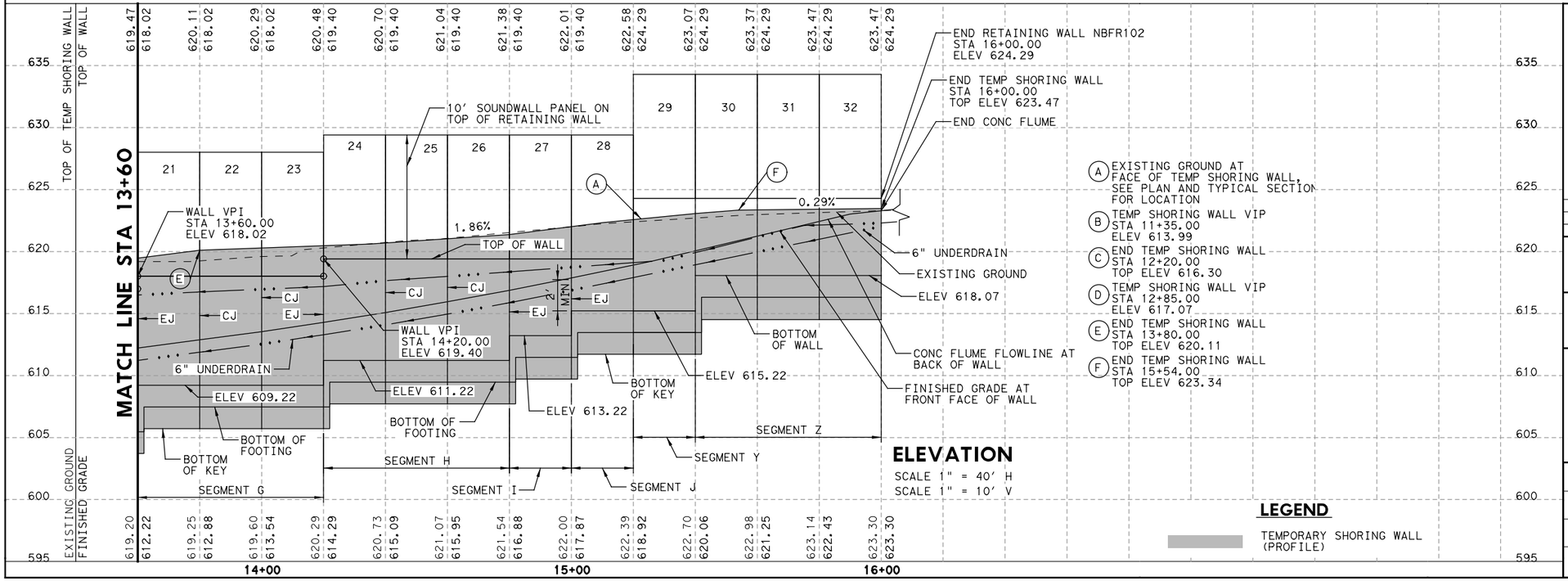
100% PLANS SUBMITTAL

NBFR102 RETAINING WALL QUANTITIES			
ITEM	DESCRIPTION	UNIT	QUANTITY
403-7001	TEMPORARY SPL SHORING	SF	4691
423-7016	RETAINING WALL (CAST-IN-PLACE)	SF	1782
432-7001	RIPRAP (CONC)(4 IN)	CY	39
419-7001	SOUND WALL	SF	2400
432-7012	RIPRAP (CONC)(FLUME)	CY	12
556-7006	PIPE UNDERDRAINS (TY 6) (6")	LF	240
740-7005	ANTI - GRAFFITI COATING (PERMNENT-TY II)	SF	826





(A) EXISTING GROUND AT FACE OF TEMP SHORING WALL, SEE PLAN AND TYPICAL SECTION FOR LOCATION
(B) TEMP SHORING WALL VIP STA 11+35.00 ELEV 613.99
(C) END TEMP SHORING WALL STA 12+20.00 TOP ELEV 616.30
(D) TEMP SHORING WALL VIP STA 12+85.00 ELEV 617.07
(E) END TEMP SHORING WALL STA 13+80.00 TOP ELEV 620.11
(F) END TEMP SHORING WALL STA 15+54.00 TOP ELEV 623.34

LEGEND

TEMPORARY SHORING WALL (PROFILE)

0 20 40 60 80
HORIZ. SCALE IN FEET
0 5 10 15 20
VERT. SCALE IN FEET

LEGEND

- PROPOSED TRAFFIC FLOW
- EXIST ROW
- PROP ROW
- PROP RETAINING WALL
- PROP TEMP SHORING WALL
- PROP PAVEMENT
- PROP BRIDGE/APPROACH SLAB
- EXIST 100 YEAR FLOODPLAIN
- PROP ROCK RIPRAP
- PROP CONCRETE RIPRAP

CJ: CONSTRUCTION JOINT
EJ: EXPANSION JOINT

NOTE:
1. SEE SHEET 1 OF 2 FOR NOTES.

1 REVISED 11/14/2024

11/14/2024

STATE OF TEXAS
BRIAN VERWIJST
127741
PROFESSIONAL ENGINEER
LICENSED

NO.	DATE	REVISION	APPROVED

HDR Engineering, Inc.
Firm Registration No. F-754
17111 Preston Road, Suite 300
Dallas, Texas 75248
972.960.4400

Texas Department of Transportation

SPUR 399
RETAINING WALL NBFR102 WITH NOISE WALL PLAN & PROFILE
STA 13+60 TO END

SCALE: 1"=40'-H
1"=10'-V

SHEET 2 OF 2

DESIGN	FED.RD. DIV.NO.	FEDERAL-AID PROJECT NO.		HIGHWAY NO.
JMD	6	SEE TITLE SHEET		SH5, ETC.
GRAPHICS AKS	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK MH	TEXAS	DAL	COLLIN	615
CHECK JMD	CONTROL	SECTION	JOB	
	0047	05	057, ETC.	

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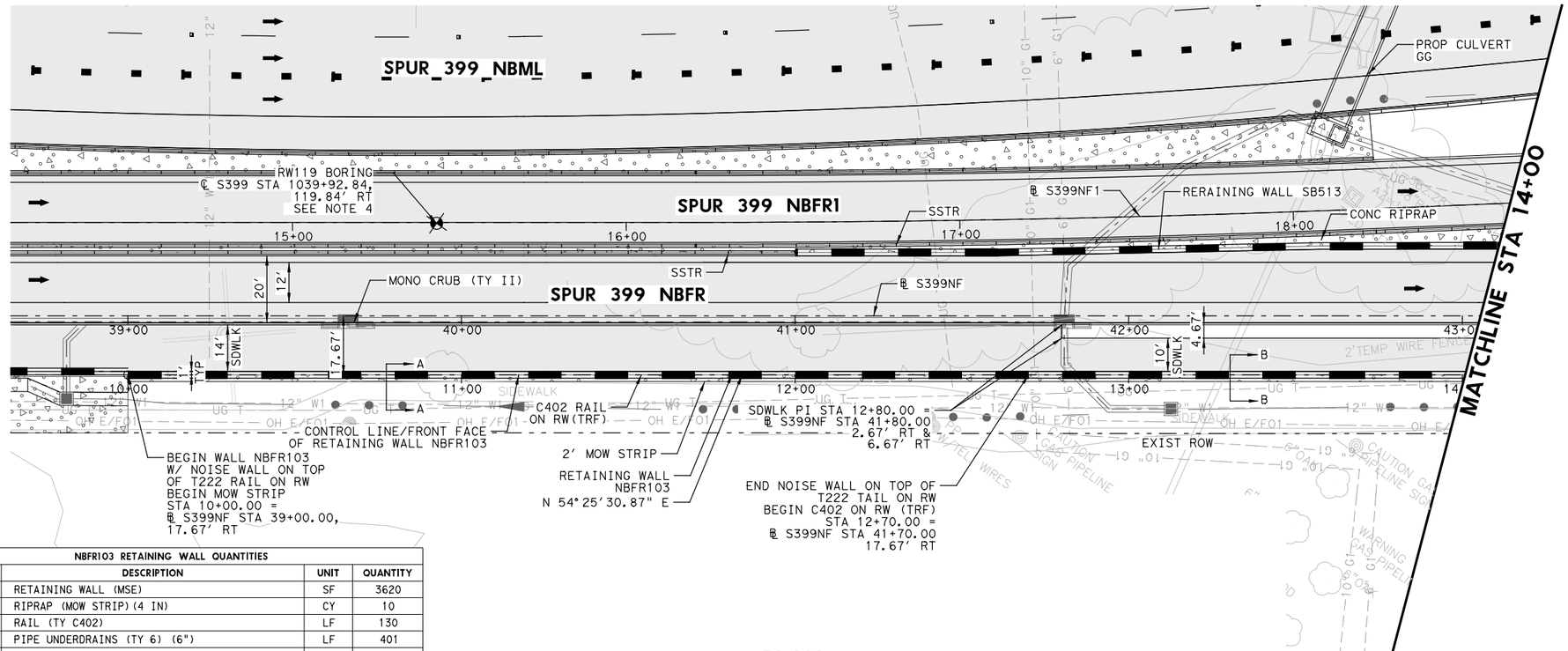
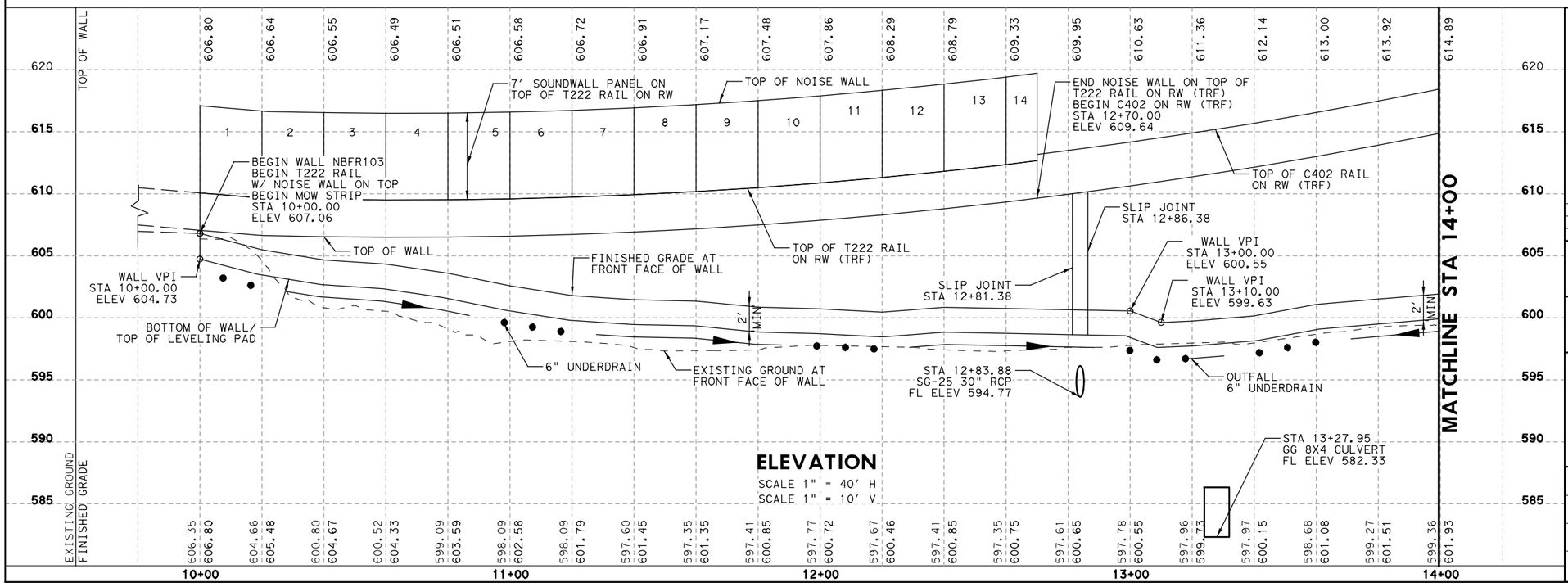
100% PLANS SUBMITTAL



PLAN

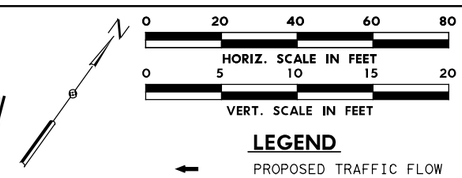
SCALE 1" = 40'

NBFR103 RETAINING WALL QUANTITIES			
ITEM	DESCRIPTION	UNIT	QUANTITY
423-7001	RETAINING WALL (MSE)	SF	3620
432-7013	RIPRAP (MOW STRIP)(4 IN)	CY	10
450-7036	RAIL (TY C402)	LF	130
556-7006	PIPE UNDERDRAINS (TY 6) (6")	LF	401
740-7005	ANTI - GRAFFITI COATING (PERMNENT-TY II)	SF	2814
419-7001	SOUND WALL	SF	1895
450-7006	RAIL (TY T222)	LF	270



ELEVATION

SCALE 1" = 40' H
SCALE 1" = 10' V



LEGEND

- PROPOSED TRAFFIC FLOW
- EXIST ROW
- PROP ROW
- PROP RETAINING WALL
- PROP TEMP SHORING WALL
- PROP PAVEMENT
- PROP BRIDGE/APPROACH SLAB
- EXIST 100 YEAR FLOODPLAIN
- PROP ROCK RIPRAP
- PROP CONCRETE RIPRAP

NOTES:

1. SEE RW(MSE)(DD)(MOD) DESIGN DATA FOR SOIL STRENGTH PARAMETERS AND EARTH REINFORCEMENT REQUIREMENTS. SEE GENERAL NOTES FOR TYPE OF FILL BEHIND MSE WALL.
2. UNLESS OTHERWISE NOTED IN THE PLANS, THE TOP OF THE LEVELING PAD IS LOCATED 2 FEET OR DEEPER BELOW THE FINISHED GRADE.
3. SURFACE AREA OF RETAINING WALL IS MEASURED FROM THE TOP OF RETAINING WALL TO THE TOP OF THE LEVELING PAD. FOOTING ADJUSTMENTS MADE IN THE FIELD ARE NOT MEASURED.
4. ◔ -DENOTES SOIL BORING LOCATION. SEE BORING LOG DATA SHEETS FOR MORE INFORMATION.
5. SEE DRAINAGE PLANS FOR MORE INFORMATION.
6. MOW STRIP SHALL BE CLASS "B" CONCRETE PER TXDOT ITEM 421. "HYDRAULIC CEMENT CONCRETE."
7. THE LOCATIONS OF EXISTING UTILITIES AND STRUCTURES SHOWN ARE BASED ON AVAILABLE SURVEY DATA. THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF ALL EXISTING UTILITIES AND STRUCTURES, AND NOTIFY ENGINEER OF ANY CONFLICTS BEFORE COMMENCING WORK.
8. SEE RW(MSE), RW(EM), RW(RI) AND RW(TRF) STANDARDS FOR ADDITIONAL DETAILS.
9. FOR OTHER DETAILS NOT SHOWN, SEE RETAINING WALL TYPICAL SECTIONS SHEET.
10. SEE TYPE SSTR/C402 RAIL FOR ADDITIONAL DETAILS.
11. CEMENT STABILIZED BACKFILL IS NOT PERMITTED.

1 REVISED 11/14/2024

11/14/2024

STATE OF TEXAS
BRIAN VERWIJST
127741
LICENSED
PROFESSIONAL ENGINEER

NO.	DATE	REVISION	APPROVED

HDR Engineering, Inc.
Firm Registration No. F-754
17111 Preston Road, Suite 300
Dallas, Texas 75248
972.960.4400

SPUR 399
RETAINING WALL NBFR103 WITH NOISE WALL PLAN & PROFILE BEGIN TO STA 14+00

SCALE: 1"=40'-H
1"=10'-V

SHEET 1 OF 2

DESIGN	FED.RD. DIV.NO.	FEDERAL-AID PROJECT NO.		HIGHWAY NO.
JMD	6	SEE TITLE SHEET		SH5, ETC.
GRAPHICS AKS	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK MH	TEXAS	DAL	COLLIN	618
CHECK JMD	CONTROL	SECTION	JOB	
	0047	05	057, ETC.	

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TIME: 4:02:13 PM
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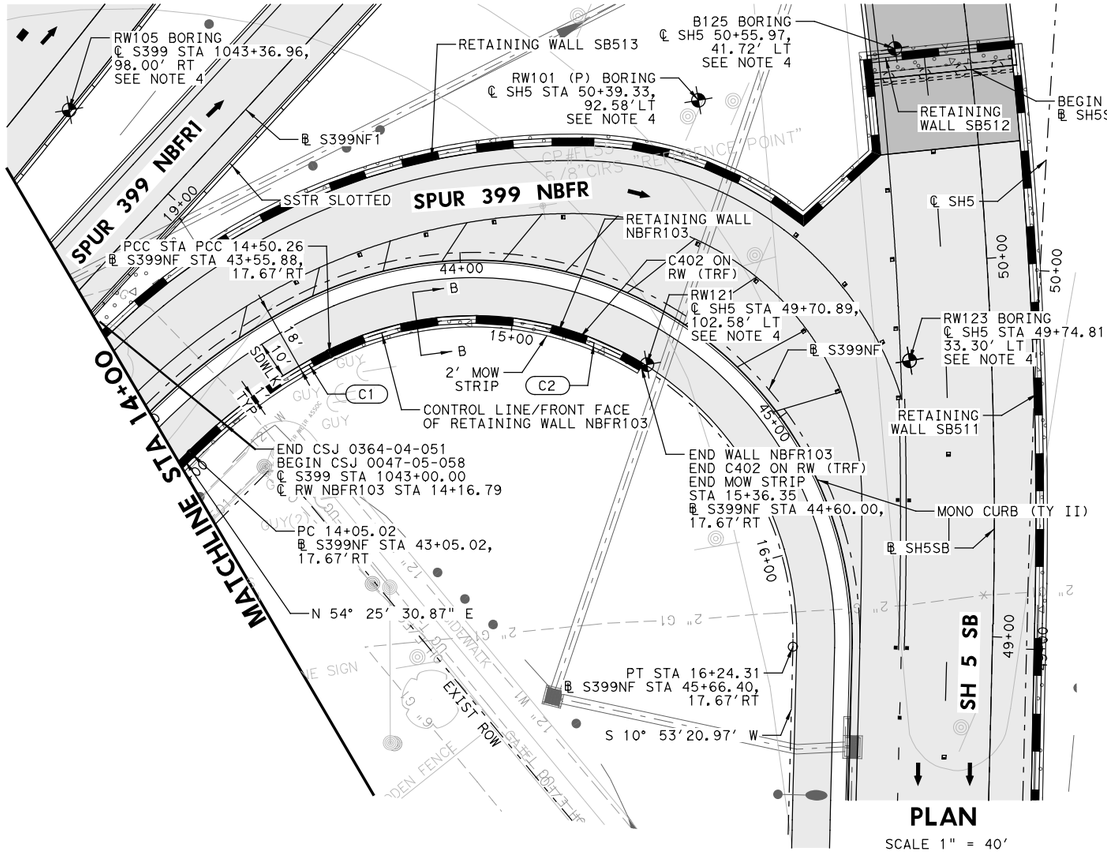
100% PLANS SUBMITTAL



NBFR103 RETAINING WALL QUANTITIES - CSJ 0047-05-058			
ITEM	DESCRIPTION	UNIT	QUANTITY
423-7001	RETAINING WALL (MSE)	SF	1322
432-7013	RIPRAP (MOW STRIP) (4 IN)	CY	3
450-7036	RAIL (TY C402)	LF	120
556-7001	PIPE UNDERDRAINS (TY 1) (6")	LF	122
740-7005	ANTI - GRAFFITI COATING (PERMNENT-TY II)	SF	1033

HORIZONTAL CURVE DATA

C1

PI STATION	= 14+27.83
DELTA	= 18° 12' 35.09" (RT)
DEGREE OF CURVE	= 40° 15' 20.12"
TANGENT	= 22.81
LENGTH	= 45.24
RADIUS	= 142.33
PC STATION	= 14+05.02
PT STATION	= 14+50.26

HORIZONTAL CURVE DATA

C2

PI STATION	= 15+91.32
DELTA	= 118° 15' 15.01" (RT)
DEGREE OF CURVE	= 67° 56' 32.44"
TANGENT	= 141.06
LENGTH	= 174.05
RADIUS	= 84.33
PC STATION	= 14+50.26
PT STATION	= 16+24.31

NBFR103 RETAINING WALL QUANTITIES - CSJ 0364-04-051			
ITEM	DESCRIPTION	UNIT	QUANTITY
423-7001	RETAINING WALL (MSE)	SF	259
432-7013	RIPRAP (MOW STRIP) (4 IN)	CY	1
450-7036	RAIL (TY C402)	LF	17
556-7006	PIPE UNDERDRAINS (TY 6) (6")	LF	17
740-7005	ANTI - GRAFFITI COATING (PERMNENT-TY II)	SF	226

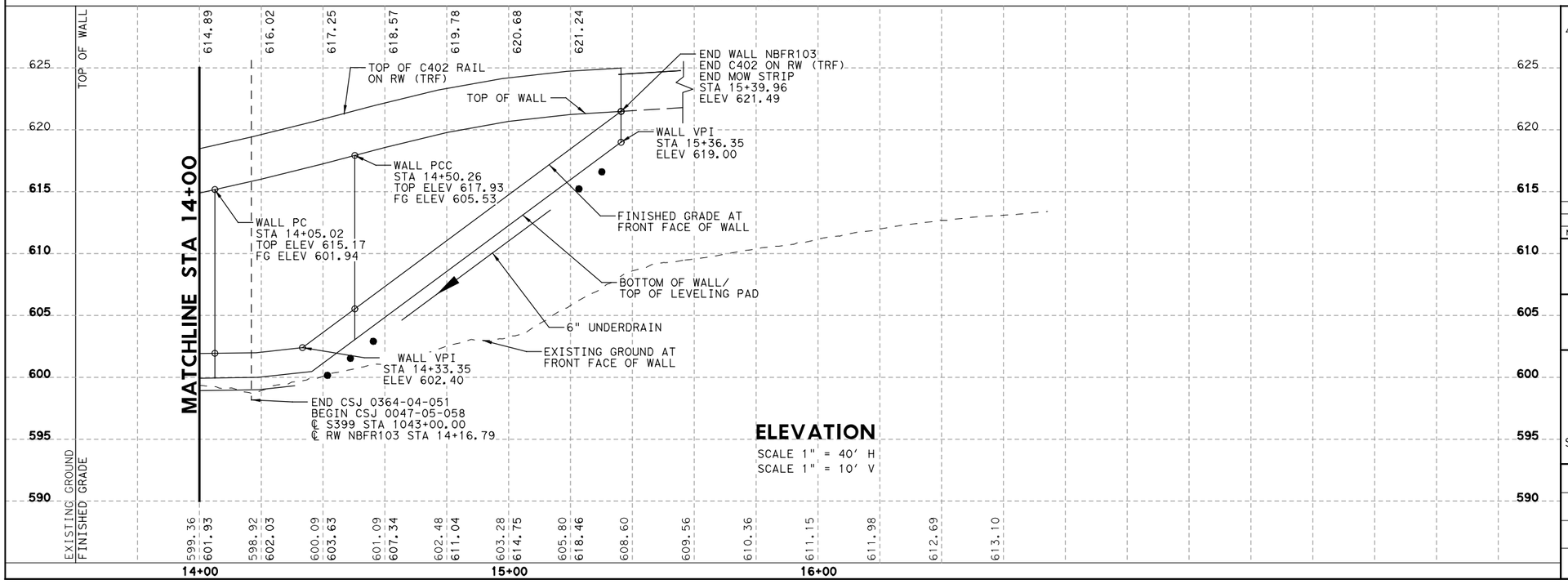
N

0 20 40 60 80
HORIZ. SCALE IN FEET
0 5 10 15 20
VERT. SCALE IN FEET

LEGEND

- PROPOSED TRAFFIC FLOW
- EXIST ROW
- PROP ROW
- PROP RETAINING WALL
- PROP TEMP SHORING WALL
- PROP PAVEMENT
- PROP BRIDGE/APPROACH SLAB
- EXIST 100 YEAR FLOODPLAIN
- PROP ROCK RIPRAP
- PROP CONCRETE RIPRAP

NOTES:
1. SEE RW(MSE)(DD)(MOD) DESIGN DATA FOR SOIL STRENGTH PARAMETERS AND EARTH REINFORCEMENT REQUIREMENTS. SEE GENERAL NOTES FOR TYPE OF FILL BEHIND MSE WALL.
2. UNLESS OTHERWISE NOTED IN THE PLANS, THE TOP OF THE LEVELING PAD IS LOCATED 2 FEET OR DEEPER BELOW THE FINISHED GRADE.
3. SURFACE AREA OF RETAINING WALL IS MEASURED FROM THE TOP OF RETAINING WALL TO THE TOP OF THE LEVELING PAD. FOOTING ADJUSTMENTS MADE IN THE FIELD ARE NOT MEASURED.
4. ◔ -DENOTES SOIL BORING LOCATION. SEE BORING LOG DATA SHEETS FOR MORE INFORMATION.
5. SEE DRAINAGE PLANS FOR MORE INFORMATION.
6. MOW STRIP SHALL BE CLASS "B" CONCRETE PER TXDOT ITEM 421. "HYDRAULIC CEMENT CONCRETE."
7. THE LOCATIONS OF EXISTING UTILITIES AND STRUCTURES SHOWN ARE BASED ON AVAILABLE SURVEY DATA. THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF ALL EXISTING UTILITIES AND STRUCTURES, AND NOTIFY ENGINEER OF ANY CONFLICTS BEFORE COMMENCING WORK.
8. SEE RW(MSE), RW(EM), RW(RI) AND RW(TRF) STANDARDS FOR ADDITIONAL DETAILS.
9. FOR OTHER DETAILS NOT SHOWN, SEE RETAINING WALL TYPICAL SECTIONS SHEET.
10. SEE TYPE SSTR/C402 RAIL FOR ADDITIONAL DETAILS.
11. CEMENT STABILIZED BACKFILL IS NOT PERMITTED.



ELEVATION
SCALE 1" = 40' H
SCALE 1" = 10' V

1 REVISED 11/14/2024

11/14/2024

STATE OF TEXAS
BRIAN VERWIJST
127741
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PROFESSIONAL ENGINEER

NO.	DATE	REVISION	APPROVED

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Firm Registration No. F-754
17111 Preston Road, Suite 300
Dallas, Texas 75248
972.960.4400

SPUR 399
RETAINING WALL NBFR103 WITH NOISE WALL PLAN & PROFILE
STA 14+00 TO END

SCALE: 1"=40'-H
1"=10'-V

SHEET 2 OF 2

DESIGN	FED.RD. DIV.NO.	FEDERAL-AID PROJECT NO.		HIGHWAY NO.
JMD	6	SEE TITLE SHEET		SH5, ETC.
GRAPHICS AKS	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK MH	TEXAS	DAL	COLLIN	619
CHECK JMD	CONTROL	SECTION	JOB	
	0047	05	057, ETC.	

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USER: ASRINVASA DATE: 11/14/2024 TIME: 4:02:3 PM SCALE: 1:40
FILE: S399MP35.dgn

100% PLANS SUBMITTAL

HORIZONTAL CURVE DATA

C1
PI STATION = 11+62.39
DELTA = 26° 51′ 16.05" (LT)
DEGREE OF CURVE = 108° 06′ 18.88"
TANGENT = 12.65
LENGTH = 24.84
RADIUS = 53.00
PC STATION = 11+49.74
PT STATION = 11+74.58

HORIZONTAL CURVE DATA

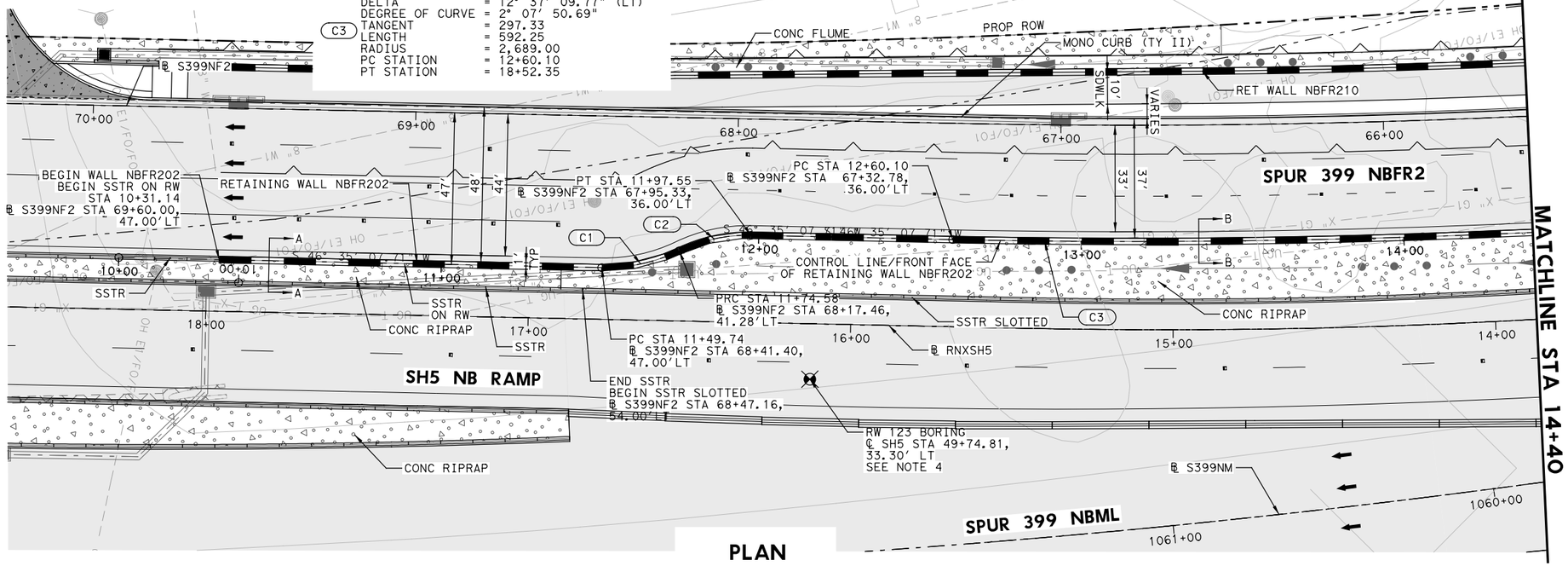
C2
PI STATION = 11+86.28
DELTA = 26° 51′ 16.05" (RT)
DEGREE OF CURVE = 116° 55′ 48.59"
TANGENT = 11.70
LENGTH = 22.97
RADIUS = 49.00
PC STATION = 11+74.58
PT STATION = 11+97.55

HORIZONTAL CURVE DATA

C3
PI STATION = 15+57.42
DELTA = 12° 37′ 09.77" (LT)
DEGREE OF CURVE = 2° 07′ 50.69"
TANGENT = 297.33
LENGTH = 592.25
RADIUS = 2,689.00
PC STATION = 12+60.10
PT STATION = 18+52.35

NBFR202 RETAINING WALL QUANTITIES

ITEM	DESCRIPTION	UNIT	QUANTITY
403-7001	TEMPORARY SPL SHORING	SF	8747
423-7001	RETAINING WALL (MSE)	SF	7016
450-7024	RAIL (TY SSTR)	LF	409
556-7006	PIPE UNDERDRAINS (TY 6) (6")	LF	409
740-7005	ANTI - GRAFFITI COATING (PERMNENT-TY II)	SF	5843



PLAN

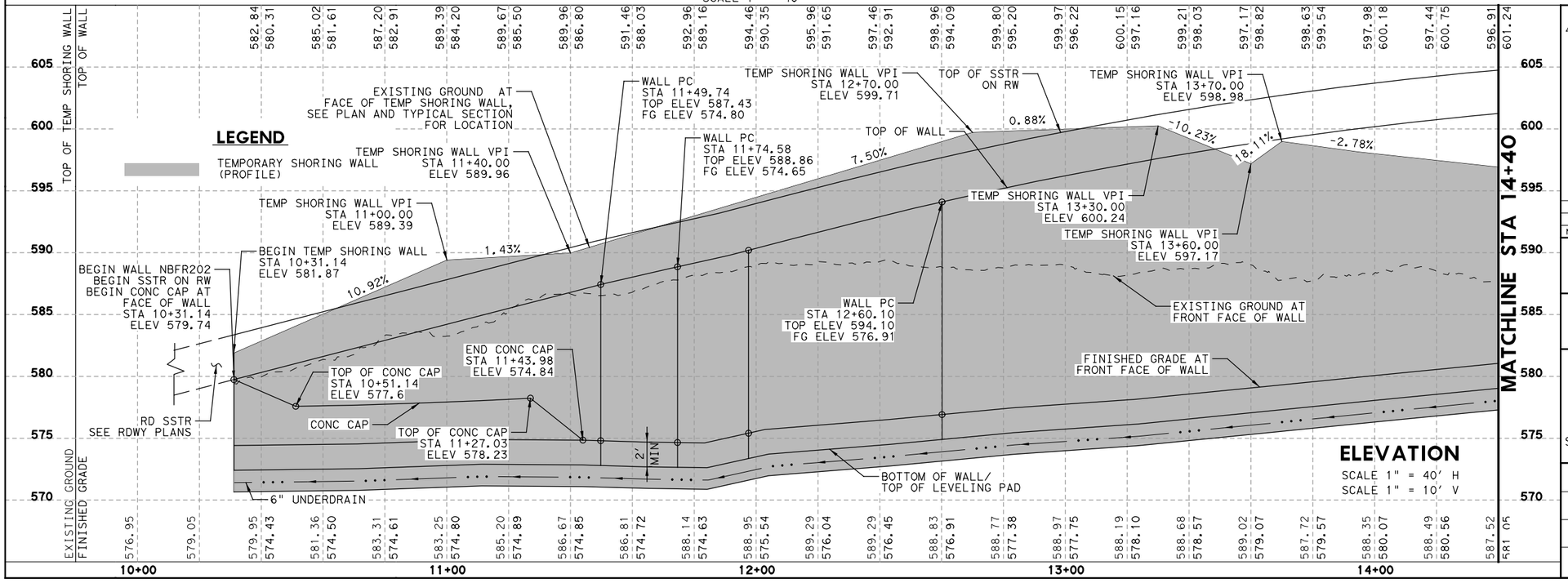
SCALE 1" = 40′

0 20 40 60 80
HORIZ. SCALE IN FEET
0 5 10 15 20
VERT. SCALE IN FEET

LEGEND

- PROPOSED TRAFFIC FLOW
- EXIST ROW
- PROP ROW
- PROP RETAINING WALL
- PROP TEMP SHORING WALL
- PROP PAVEMENT
- PROP BRIDGE/APPROACH SLAB
- EXIST 100 YEAR FLOODPLAIN
- PROP ROCK RIPRAP
- PROP CONCRETE RIPRAP

NOTES:
1. SEE RW(MSE)(DD)(MOD) DESIGN DATA FOR SOIL STRENGTH PARAMETERS AND EARTH REINFORCEMENT REQUIREMENTS. SEE GENERAL NOTES FOR TYPE OF FILL BEHIND MSE WALL.
2. UNLESS OTHERWISE NOTED IN THE PLANS, THE TOP OF THE LEVELING PAD IS LOCATED 2 FEET OR DEEPER BELOW THE FINISHED GRADE.
3. SURFACE AREA OF RETAINING WALL IS MEASURED FROM THE TOP OF RETAINING WALL TO THE TOP OF THE LEVELING PAD. FOOTING ADJUSTMENTS MADE IN THE FIELD ARE NOT MEASURED.
4. ◔ -DENOTES SOIL BORING LOCATION. SEE BORING LOG DATA SHEETS FOR MORE INFORMATION.
5. SEE DRAINAGE PLANS FOR MORE INFORMATION.
6. MOW STRIP SHALL BE CLASS "B" CONCRETE PER TXDOT ITEM 421. "HYDRAULIC CEMENT CONCRETE."
7. THE LOCATIONS OF EXISTING UTILITIES AND STRUCTURES SHOWN ARE BASED ON AVAILABLE SURVEY DATA. THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF ALL EXISTING UTILITIES AND STRUCTURES, AND NOTIFY ENGINEER OF ANY CONFLICTS BEFORE COMMENCING WORK.
8. SEE RW(MSE), RW(EM), RW(RI) AND RW(TRF) STANDARDS FOR ADDITIONAL DETAILS.
9. FOR OTHER DETAILS NOT SHOWN, SEE RETAINING WALL TYPICAL SECTIONS SHEET.
10. SEE TYPE SSTR/C402 RAIL FOR ADDITIONAL DETAILS.
11. CEMENT STABILIZED BACKFILL IS NOT PERMITTED.



ELEVATION

SCALE 1" = 40′ H
SCALE 1" = 10′ V

1 REVISED 11/14/2024

11/14/2024

STATE OF TEXAS
BRIAN VERWIJST
127741
LICENSED
PROFESSIONAL ENGINEER

NO.	DATE	REVISION	APPROVED

HDR Engineering, Inc.
Firm Registration No. F-754
17111 Preston Road, Suite 300
Dallas, Texas 75248
972.960.4400

SPUR 399
RETAINING WALL NBFR202
PLAN AND PROFILE
BEGIN TO STA 14+40

SCALE: 1"=40′-H
1"=10′-V

SHEET 1 OF 3

DESIGN	FED.RD. DIV.NO.	FEDERAL-AID PROJECT NO.		HIGHWAY NO.
JMD	6	SEE TITLE SHEET		SH5, ETC.
GRAPHICS AKS	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK MH	TEXAS	DAL	COLLIN	626
CHECK JMD	CONTROL 0047	SECTION 05	JOB 057, ETC.	

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USER: ASRINVASA
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PENTABLE: 10181I5-SP399-SEG1.tbl
DATE: 11/14/2024
TIME: 4:02:13 PM
SCALE: 1:40

100% PLANS SUBMITTAL

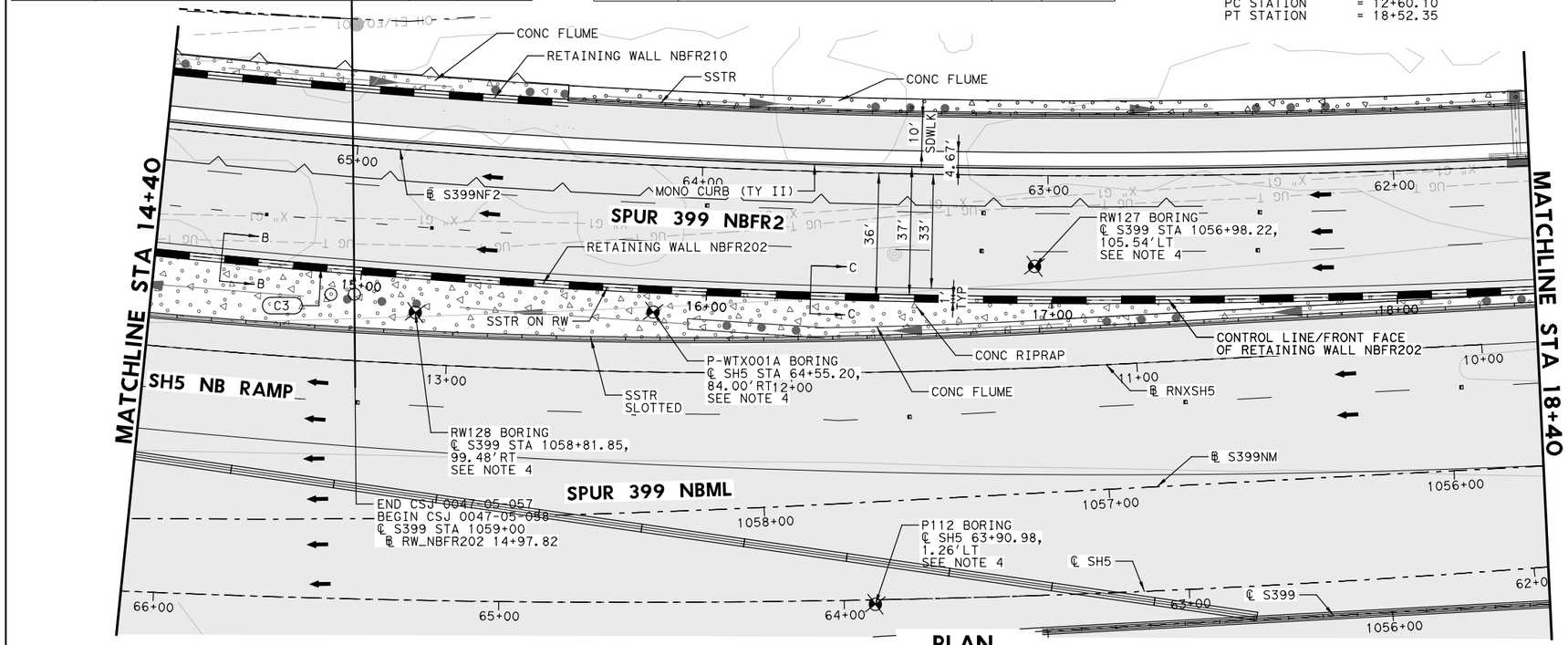
NBFR202 RETAINING WALL QUANTITIES - CSJ 0047-05-057			
ITEM	DESCRIPTION	UNIT	QUANTITY
403-7001	TEMPORARY SPL SHORING	SF	1057
423-7001	RETAINING WALL (MSE)	SF	1283
450-7024	RAIL (TY SSTR)	LF	58
556-7006	PIPE UNDERDRAINS (TY 6) (6")	LF	58
740-7005	ANTI - GRAFFITI COATING (PERMNENT-TY II)	SF	1167

NBFR202 RETAINING WALL QUANTITIES - CSJ 0047-05-058			
ITEM	DESCRIPTION	UNIT	QUANTITY
403-7001	TEMPORARY SPL SHORING	SF	2519
423-7001	RETAINING WALL (MSE)	SF	5930
450-7024	RAIL (TY SSTR)	LF	343
556-7006	PIPE UNDERDRAINS (TY 6) (6")	LF	343
740-7005	ANTI - GRAFFITI COATING (PERMNENT-TY II)	SF	5243

HORIZONTAL CURVE DATA

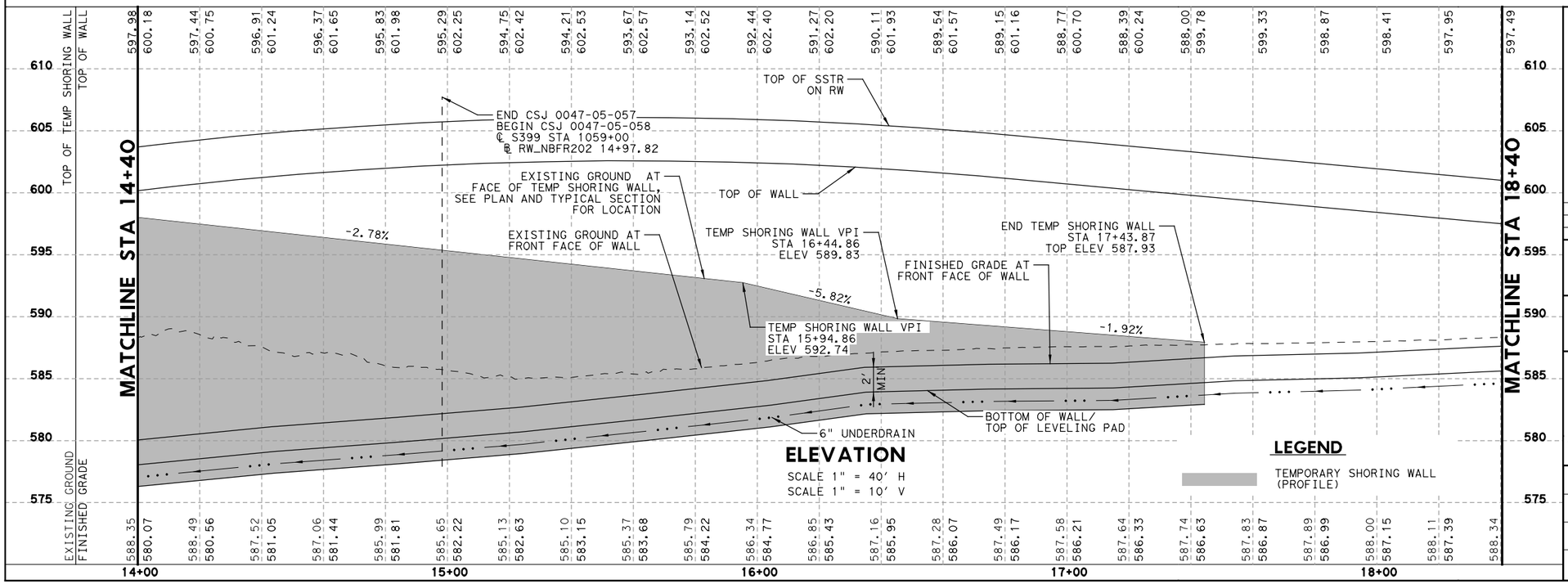
(C3)

PI STATION	= 15+57.42
DELTA	= 12° 37' 09.77" (LT)
DEGREE OF CURVE	= 2° 07' 50.69"
TANGENT	= 297.33
LENGTH	= 592.25
RADIUS	= 2,689.00
PC STATION	= 12+60.10
PT STATION	= 18+52.35



PLAN

SCALE 1" = 40'



ELEVATION

SCALE 1" = 40' H
SCALE 1" = 10' V

LEGEND

TEMPORARY SHORING WALL (PROFILE)

0 20 40 60 80
HORIZ. SCALE IN FEET
0 5 10 15 20
VERT. SCALE IN FEET

LEGEND

- PROPOSED TRAFFIC FLOW
- EXIST ROW
- PROP ROW
- PROP RETAINING WALL
- PROP TEMP SHORING WALL
- PROP PAVEMENT
- PROP BRIDGE/APPROACH SLAB
- EXIST 100 YEAR FLOODPLAIN
- PROP ROCK RIPRAP
- PROP CONCRETE RIPRAP

NOTES:

1. SEE RW(MSE)(DD)(MOD) DESIGN DATA FOR SOIL STRENGTH PARAMETERS AND EARTH REINFORCEMENT REQUIREMENTS. SEE GENERAL NOTES FOR TYPE OF FILL BEHIND MSE WALL.
2. UNLESS OTHERWISE NOTED IN THE PLANS, THE TOP OF THE LEVELING PAD IS LOCATED 2 FEET OR DEEPER BELOW THE FINISHED GRADE.
3. SURFACE AREA OF RETAINING WALL IS MEASURED FROM THE TOP OF RETAINING WALL TO THE TOP OF THE LEVELING PAD. FOOTING ADJUSTMENTS MADE IN THE FIELD ARE NOT MEASURED.
4. ◔ -DENOTES SOIL BORING LOCATION. SEE BORING LOG DATA SHEETS FOR MORE INFORMATION.
5. SEE DRAINAGE PLANS FOR MORE INFORMATION.
6. MOW STRIP SHALL BE CLASS "B" CONCRETE PER TXDOT ITEM 421. "HYDRAULIC CEMENT CONCRETE."
7. THE LOCATIONS OF EXISTING UTILITIES AND STRUCTURES SHOWN ARE BASED ON AVAILABLE SURVEY DATA. THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF ALL EXISTING UTILITIES AND STRUCTURES, AND NOTIFY ENGINEER OF ANY CONFLICTS BEFORE COMMENCING WORK.
8. SEE RW(MSE), RW(EM), RW(RI) AND RW(TRF) STANDARDS FOR ADDITIONAL DETAILS.
9. FOR OTHER DETAILS NOT SHOWN, SEE RETAINING WALL TYPICAL SECTIONS SHEET.
10. SEE TYPE SSTR/C402 RAIL FOR ADDITIONAL DETAILS.
11. CEMENT STABILIZED BACKFILL IS NOT PERMITTED.

1 REVISED 11/14/2024

11/14/2024

STATE OF TEXAS
BRIAN VERWIJST
127741
PROFESSIONAL ENGINEER

NO.	DATE	REVISION	APPROVED

HDR Engineering, Inc.
Firm Registration No. F-754
17111 Preston Road, Suite 300
Dallas, Texas 75248
972.960.4400

SPUR 399
RETAINING WALL NBFR202
PLAN AND PROFILE
STA 14+40 TO STA 18+40

SCALE: 1"=40'-H
1"=10'-V

SHEET 2 OF 3

DESIGN	FED.RD. DIV.NO.	FEDERAL-AID PROJECT NO.		HIGHWAY NO.
JMD	6	SEE TITLE SHEET		SH5, ETC.
GRAPHICS AKS	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK MH	TEXAS	DAL	COLLIN	627
CHECK JMD	CONTROL	SECTION	JOB	
	0047	05	057, ETC.	

PLOT DRIVER: TXDOT_PDF_BW.pltcfg
USER: ASRINIVASA
FILE: S399WP39.dgn
DATE: 11/14/2024
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SCALE: 1:40
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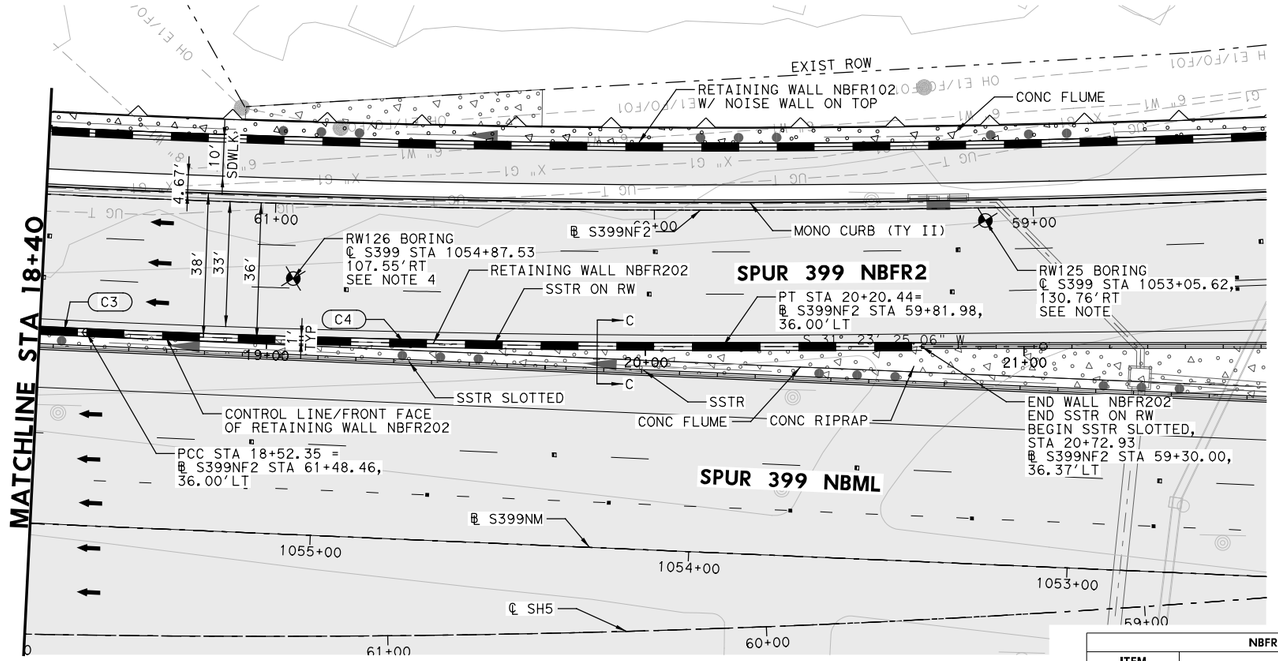
100% PLANS SUBMITTAL



PLAN

SCALE 1" = 40'

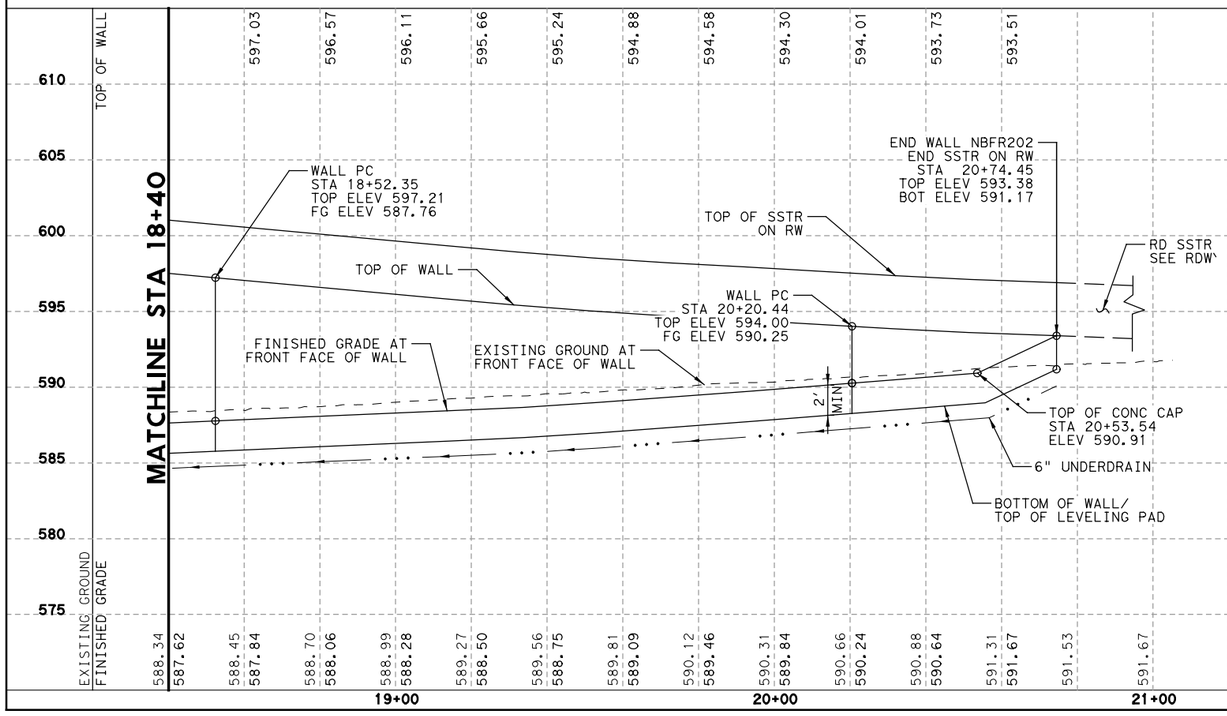
HORIZONTAL CURVE DATA

C3
- PI STATION = 15+57.42
- DELTA = 12° 37′ 09.77" (LT)
- DEGREE OF CURVE = 2° 07′ 50.69"
- TANGENT = 297.33
- LENGTH = 592.25
- RADIUS = 2,689.00
- PC STATION = 12+60.10
- PT STATION = 18+52.35

HORIZONTAL CURVE DATA

C4
- PI STATION = 19+36.41
- DELTA = 2° 34′ 32.88" (LT)
- DEGREE OF CURVE = 1° 31′ 56.58"
- TANGENT = 84.06
- LENGTH = 168.09
- RADIUS = 3,739.00
- PC STATION = 18+52.35
- PT STATION = 20+20.44

NBFR202 RETAINING WALL QUANTITIES			
ITEM	DESCRIPTION	UNIT	QUANTITY
423-7001	RETAINING WALL (MSE)	SF	1836
450-7024	RAIL (TY SSTR)	LF	235
556-7006	PIPE UNDERDRAINS (TY 6) (6")	LF	235
740-7005	ANTI - GRAFFITI COATING (PERMNENT-TY II)	SF	1363



ELEVATION

SCALE 1" = 40′ H
SCALE 1" = 10′ V

0 20 40 60 80
HORIZ. SCALE IN FEET
0 5 10 15 20
VERT. SCALE IN FEET

LEGEND

- PROPOSED TRAFFIC FLOW
- EXIST ROW
- PROP ROW
- PROP RETAINING WALL
- PROP TEMP SHORING WALL
- PROP PAVEMENT
- PROP BRIDGE/APPROACH SLAB
- EXIST 100 YEAR FLOODPLAIN
- PROP ROCK RIPRAP
- PROP CONCRETE RIPRAP

NOTES:
1. SEE RW(MSE)(DD)(MOD) DESIGN DATA FOR SOIL STRENGTH PARAMETERS AND EARTH REINFORCEMENT REQUIREMENTS. SEE GENERAL NOTES FOR TYPE OF FILL BEHIND MSE WALL.
2. UNLESS OTHERWISE NOTED IN THE PLANS, THE TOP OF THE LEVELING PAD IS LOCATED 2 FEET OR DEEPER BELOW THE FINISHED GRADE.
3. SURFACE AREA OF RETAINING WALL IS MEASURED FROM THE TOP OF RETAINING WALL TO THE TOP OF THE LEVELING PAD. FOOTING ADJUSTMENTS MADE IN THE FIELD ARE NOT MEASURED.
4. ◔ -DENOTES SOIL BORING LOCATION. SEE BORING LOG DATA SHEETS FOR MORE INFORMATION.
5. SEE DRAINAGE PLANS FOR MORE INFORMATION.
6. MOW STRIP SHALL BE CLASS "B" CONCRETE PER TXDOT ITEM 421. "HYDRAULIC CEMENT CONCRETE."
7. THE LOCATIONS OF EXISTING UTILITIES AND STRUCTURES SHOWN ARE BASED ON AVAILABLE SURVEY DATA. THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF ALL EXISTING UTILITIES AND STRUCTURES, AND NOTIFY ENGINEER OF ANY CONFLICTS BEFORE COMMENCING WORK.
8. SEE RW(MSE), RW(EM), RW(RI) AND RW(TRF) STANDARDS FOR ADDITIONAL DETAILS.
9. FOR OTHER DETAILS NOT SHOWN, SEE RETAINING WALL TYPICAL SECTIONS SHEET.
10. SEE TYPE SSTR/C402 RAIL FOR ADDITIONAL DETAILS.
11. CEMENT STABILIZED BACKFILL IS NOT PERMITTED.

1 REVISED 11/14/2024

STATE OF TEXAS
BRIAN VERWIJST
127741
LICENSED
PROFESSIONAL ENGINEER
11/14/2024

NO.	DATE	REVISION	APPROVED

HDR Engineering, Inc.
Firm Registration No. F-754
17111 Preston Road, Suite 300
Dallas, Texas 75248
972.960.4400

SPUR 399
RETAINING WALL NBFR202
PLAN AND PROFILE
STA 18+40 TO END

SCALE: 1"=40′-H
1"=10′-V

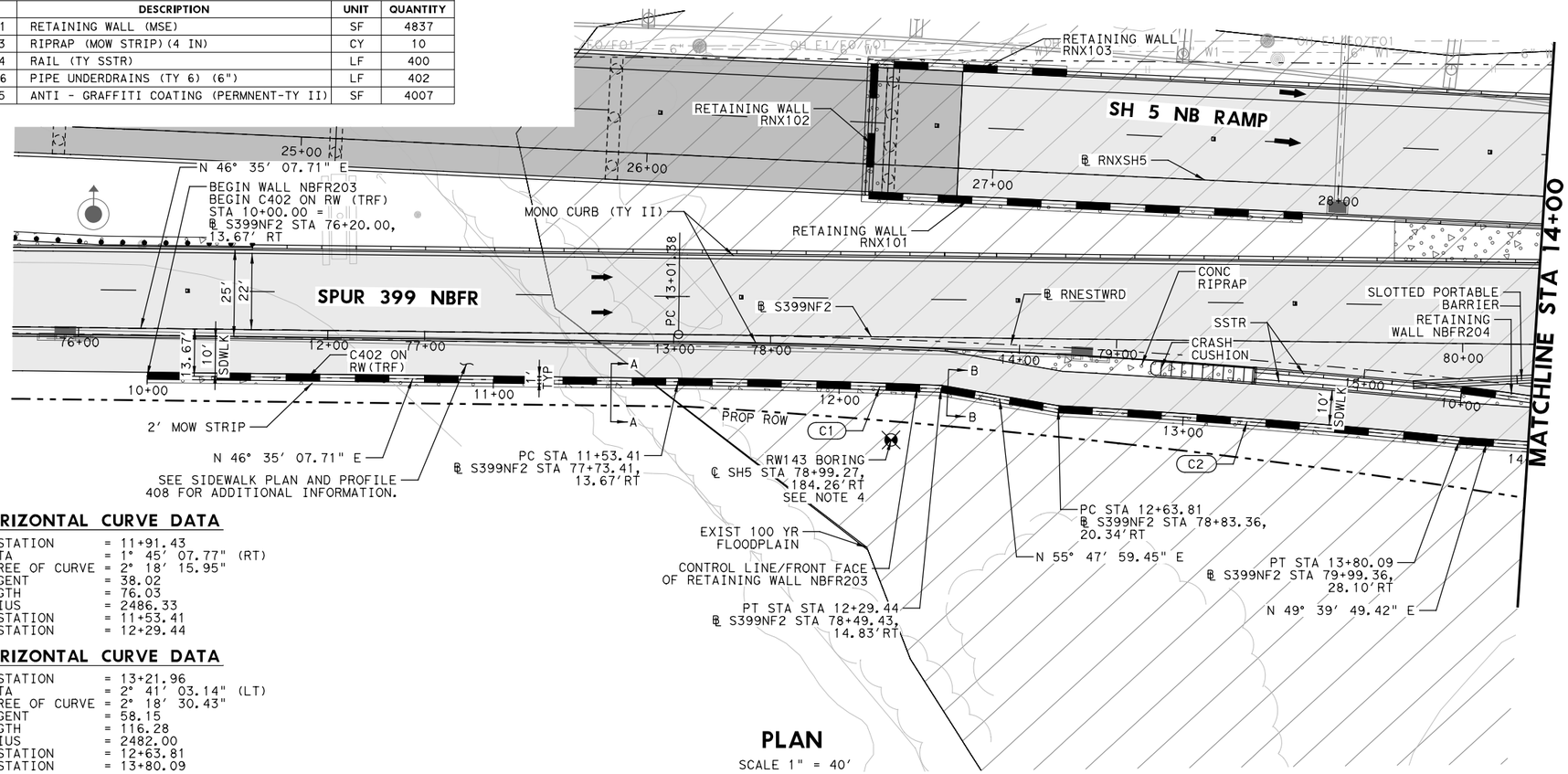
SHEET 3 OF 3

DESIGN	FED.RD. DIV.NO.	FEDERAL-AID PROJECT NO.		HIGHWAY NO.
JMD	6	SEE TITLE SHEET		SH5, ETC.
GRAPHICS AKS	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK MH	TEXAS	DAL	COLLIN	628
CHECK JMD	CONTROL 0047	SECTION 05	JOB 057, ETC.	

PLOT DRIVER: TXDOT_PDF_BW.pltcfg
USER: ASRINIVASA
FILE: S399NP40.dgn
DATE: 11/14/2024
TIME: 4:02:13 PM
SCALE: 1:40
PENTABLE: 10811S-SP399-SEG1.tbl

100% PLANS SUBMITTAL

NBFR203 RETAINING WALL QUANTITIES			
ITEM	DESCRIPTION	UNIT	QUANTITY
423-7001	RETAINING WALL (MSE)	SF	4837
432-7013	RIPRAP (MOW STRIP)(4 IN)	CY	10
450-7024	RAIL (TY SSTR)	LF	400
556-7006	PIPE UNDERDRAINS (TY 6) (6")	LF	402
740-7005	ANTI - GRAFFITI COATING (PERMNENT-TY II)	SF	4007



PLAN

SCALE 1" = 40′

0 20 40 60 80
HORIZ. SCALE IN FEET
0 5 10 15 20
VERT. SCALE IN FEET

LEGEND

- PROPOSED TRAFFIC FLOW
- EXIST ROW
- PROP ROW
- PROP RETAINING WALL
- PROP TEMP SHORING WALL
- PROP PAVEMENT
- PROP BRIDGE/APPROACH SLAB
- EXIST 100 YEAR FLOODPLAIN
- PROP ROCK RIPRAP
- PROP CONCRETE RIPRAP

NOTES:

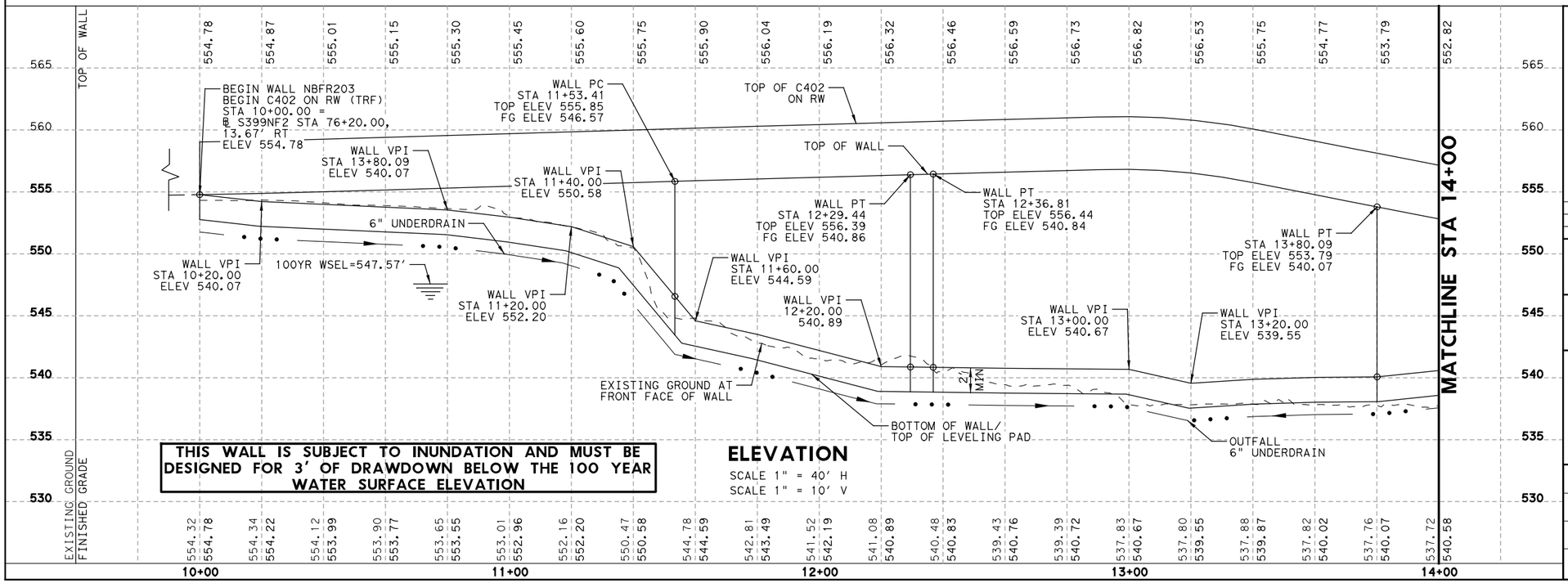
1. SEE RW(MSE)(DD)(MOD) DESIGN DATA FOR SOIL STRENGTH PARAMETERS AND EARTH REINFORCEMENT REQUIREMENTS. SEE GENERAL NOTES FOR TYPE OF FILL BEHIND MSE WALL.
2. UNLESS OTHERWISE NOTED IN THE PLANS, THE TOP OF THE LEVELING PAD IS LOCATED 2 FEET OR DEEPER BELOW THE FINISHED GRADE.
3. SURFACE AREA OF RETAINING WALL IS MEASURED FROM THE TOP OF RETAINING WALL TO THE TOP OF THE LEVELING PAD. FOOTING ADJUSTMENTS MADE IN THE FIELD ARE NOT MEASURED.
4. ◔ -DENOTES SOIL BORING LOCATION. SEE BORING LOG DATA SHEETS FOR MORE INFORMATION.
5. SEE DRAINAGE PLANS FOR MORE INFORMATION.
6. MOW STRIP SHALL BE CLASS "B" CONCRETE PER TXDOT ITEM 421. "HYDRAULIC CEMENT CONCRETE."
7. THE LOCATIONS OF EXISTING UTILITIES AND STRUCTURES SHOWN ARE BASED ON AVAILABLE SURVEY DATA. THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF ALL EXISTING UTILITIES AND STRUCTURES, AND NOTIFY ENGINEER OF ANY CONFLICTS BEFORE COMMENCING WORK.
8. SEE RW(MSE), RW(EM), RW(RI) AND RW(TRF) STANDARDS FOR ADDITIONAL DETAILS.
9. FOR OTHER DETAILS NOT SHOWN, SEE RETAINING WALL TYPICAL SECTIONS SHEET.
10. SEE TYPE SSTR/C402 RAIL FOR ADDITIONAL DETAILS.
11. CEMENT STABILIZED BACKFILL IS NOT PERMITTED.

HORIZONTAL CURVE DATA

C1
PI STATION = 11+91.43
DELTA = 1° 45′ 07.77" (RT)
DEGREE OF CURVE = 2° 18′ 15.95"
TANGENT = 38.02
LENGTH = 76.03
RADIUS = 2486.33
PC STATION = 11+53.41
PT STATION = 12+29.44

HORIZONTAL CURVE DATA

C2
PI STATION = 13+21.96
DELTA = 2° 41′ 03.14" (LT)
DEGREE OF CURVE = 2° 18′ 30.43"
TANGENT = 58.15
LENGTH = 116.28
RADIUS = 2482.00
PC STATION = 12+63.81
PT STATION = 13+80.09



THIS WALL IS SUBJECT TO INUNDATION AND MUST BE DESIGNED FOR 3′ OF DRAWDOWN BELOW THE 100 YEAR WATER SURFACE ELEVATION

ELEVATION

SCALE 1" = 40′ H
SCALE 1" = 10′ V

1 REVISED 11/14/2024

11/14/2024

STATE OF TEXAS
BRIAN VERWIJST
127741
PROFESSIONAL LICENSED ENGINEER

NO.	DATE	REVISION	APPROVED

HDR Engineering, Inc.
Firm Registration No. F-754
17111 Preston Road, Suite 300
Dallas, Texas 75248
972.960.4400

Texas Department of Transportation

SPUR 399
RETAINING WALL NBFR203
PLAN AND PROFILE
BEGIN TO STA 14+00

SCALE: 1"=40′-H
1"=10′-V

SHEET 1 OF 2

DESIGN	FED.RD. DIV.NO.	FEDERAL-AID PROJECT NO.		HIGHWAY NO.
JMD	6	SEE TITLE SHEET		SH5, ETC.
GRAPHICS AKS	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK MH	TEXAS	DAL	COLLIN	635
CHECK JMD	CONTROL	SECTION	JOB	
	0047	05	057, ETC.	

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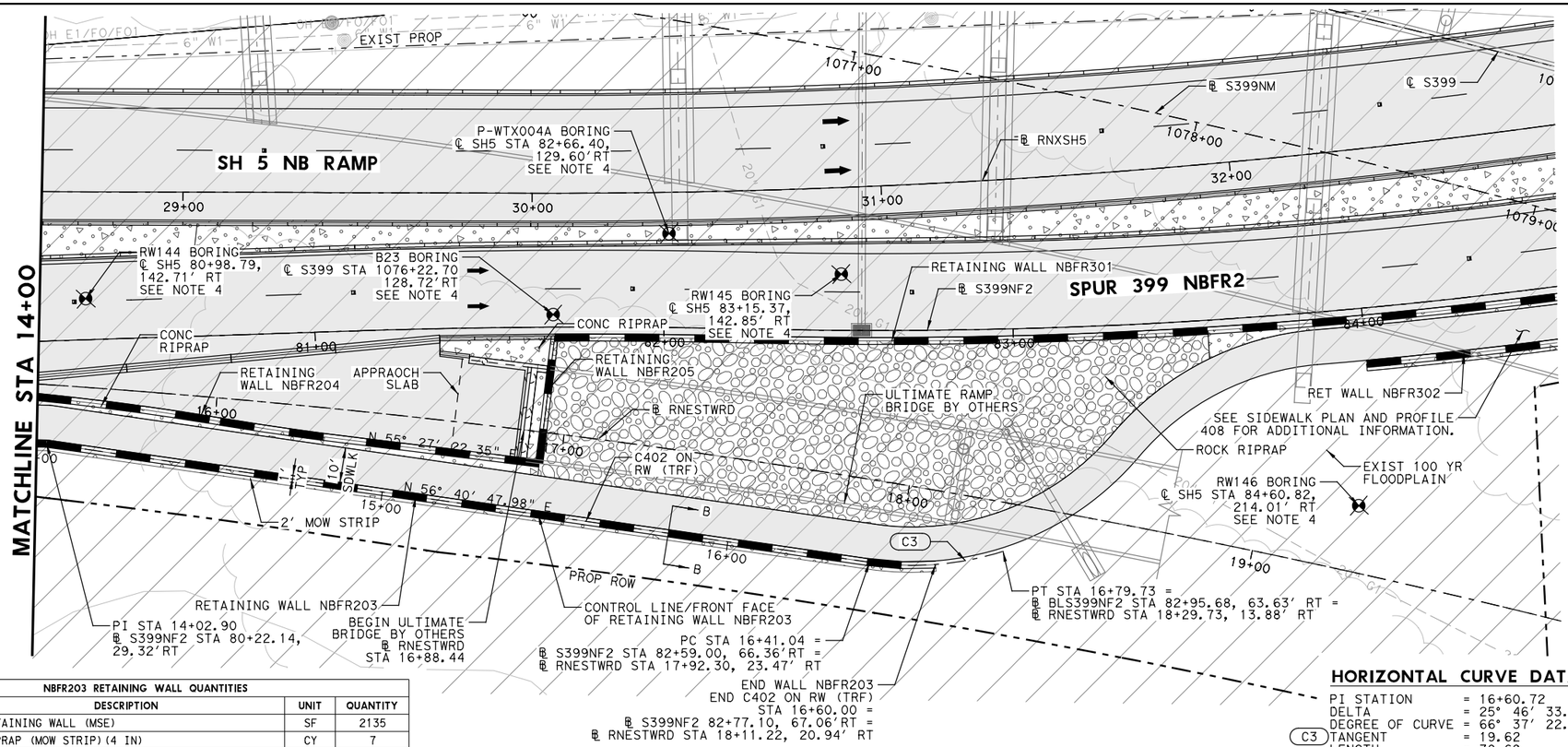
SCALE: 1:40
PENTABLE: 10IBI15-SP399-SEG1.tbl

100% PLANS SUBMITTAL



NBFR203 RETAINING WALL QUANTITIES			
ITEM	DESCRIPTION	UNIT	QUANTITY
423-7001	RETAINING WALL (MSE)	SF	2135
432-7013	RIPRAP (MOW STRIP)(4 IN)	CY	7
450-7024	RAIL (TY SSTR)	LF	260
556-7006	PIPE UNDERDRAINS (TY 6) (6")	LF	261
740-7005	ANTI - GRAFFITI COATING (PERMNENT-TY II)	SF	1614

PLAN

SCALE 1" = 40'

HORIZONTAL CURVE DATA

C3

PI STATION	= 16+60.72
DELTA	= 25° 46' 33.88" (RT)
DEGREE OF CURVE	= 66° 37' 22.80"
TANGENT	= 19.62
LENGTH	= 38.69
RADIUS	= 86.00
PC STATION	= 16+41.04
PT STATION	= 16+79.73

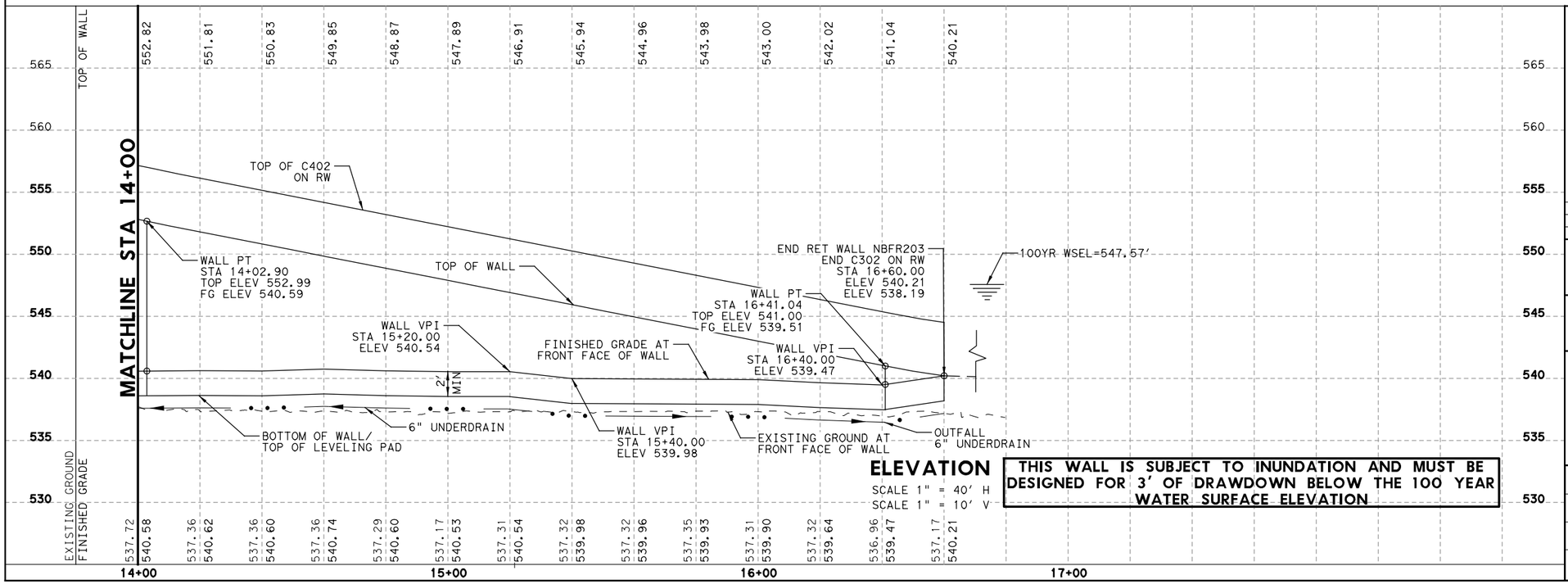
0 20 40 60 80
HORIZ. SCALE IN FEET
0 5 10 15 20
VERT. SCALE IN FEET

LEGEND

- PROPOSED TRAFFIC FLOW
- EXIST ROW
- PROP ROW
- PROP RETAINING WALL
- PROP TEMP SHORING WALL
- PROP PAVEMENT
- PROP BRIDGE/APPROACH SLAB
- EXIST 100 YEAR FLOODPLAIN
- PROP ROCK RIPRAP
- PROP CONCRETE RIPRAP

NOTES:

1. SEE RW(MSE)(DD)(MOD) DESIGN DATA FOR SOIL STRENGTH PARAMETERS AND EARTH REINFORCEMENT REQUIREMENTS. SEE GENERAL NOTES FOR TYPE OF FILL BEHIND MSE WALL.
2. UNLESS OTHERWISE NOTED IN THE PLANS, THE TOP OF THE LEVELING PAD IS LOCATED 2 FEET OR DEEPER BELOW THE FINISHED GRADE.
3. SURFACE AREA OF RETAINING WALL IS MEASURED FROM THE TOP OF RETAINING WALL TO THE TOP OF THE LEVELING PAD. FOOTING ADJUSTMENTS MADE IN THE FIELD ARE NOT MEASURED.
4. ◔ -DENOTES SOIL BORING LOCATION. SEE BORING LOG DATA SHEETS FOR MORE INFORMATION.
5. SEE DRAINAGE PLANS FOR MORE INFORMATION.
6. MOW STRIP SHALL BE CLASS "B" CONCRETE PER TXDOT ITEM 421. "HYDRAULIC CEMENT CONCRETE."
7. THE LOCATIONS OF EXISTING UTILITIES AND STRUCTURES SHOWN ARE BASED ON AVAILABLE SURVEY DATA. THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF ALL EXISTING UTILITIES AND STRUCTURES, AND NOTIFY ENGINEER OF ANY CONFLICTS BEFORE COMMENCING WORK.
8. SEE RW(MSE), RW(EM), RW(RI) AND RW(TRF) STANDARDS FOR ADDITIONAL DETAILS.
9. FOR OTHER DETAILS NOT SHOWN, SEE RETAINING WALL TYPICAL SECTIONS SHEET.
10. SEE TYPE SSTR/C402 RAIL FOR ADDITIONAL DETAILS.
11. CEMENT STABILIZED BACKFILL IS NOT PERMITTED.



ELEVATION

SCALE 1" = 40' H
SCALE 1" = 10' V

THIS WALL IS SUBJECT TO INUNDATION AND MUST BE DESIGNED FOR 3' OF DRAWDOWN BELOW THE 100 YEAR WATER SURFACE ELEVATION

1 REVISED 11/14/2024

11/14/2024

STATE OF TEXAS
BRIAN VERWIJST
127741
LICENSED
PROFESSIONAL ENGINEER

NO.	DATE	REVISION	APPROVED

HDR Engineering, Inc.
Firm Registration No. F-754
17111 Preston Road, Suite 300
Dallas, Texas 75248
972.960.4400

SPUR 399
RETAINING WALL NBFR203
PLAN AND PROFILE
STA 14+00 TO END

SCALE: 1"=40'-H
1"=10'-V

SHEET 2 OF 2

DESIGN	FED.RD. DIV.NO.	FEDERAL-AID PROJECT NO.		HIGHWAY NO.
JMD	6	SEE TITLE SHEET		SH5, ETC.
GRAPHICS AKS	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK MH	TEXAS	DAL	COLLIN	636
CHECK JMD	CONTROL	SECTION	JOB	
	0047	05	057, ETC.	

PLOT DRIVER: TXDOT_PDF_BW.pltcfg DATE: 11/14/2024 TIME: 4:02:3 PM SCALE: 1:40
USER: ASRINIVASA PENTABLE: I0I8I5-SP399-SEGI.tbl
FILE: S399WP65.dgn

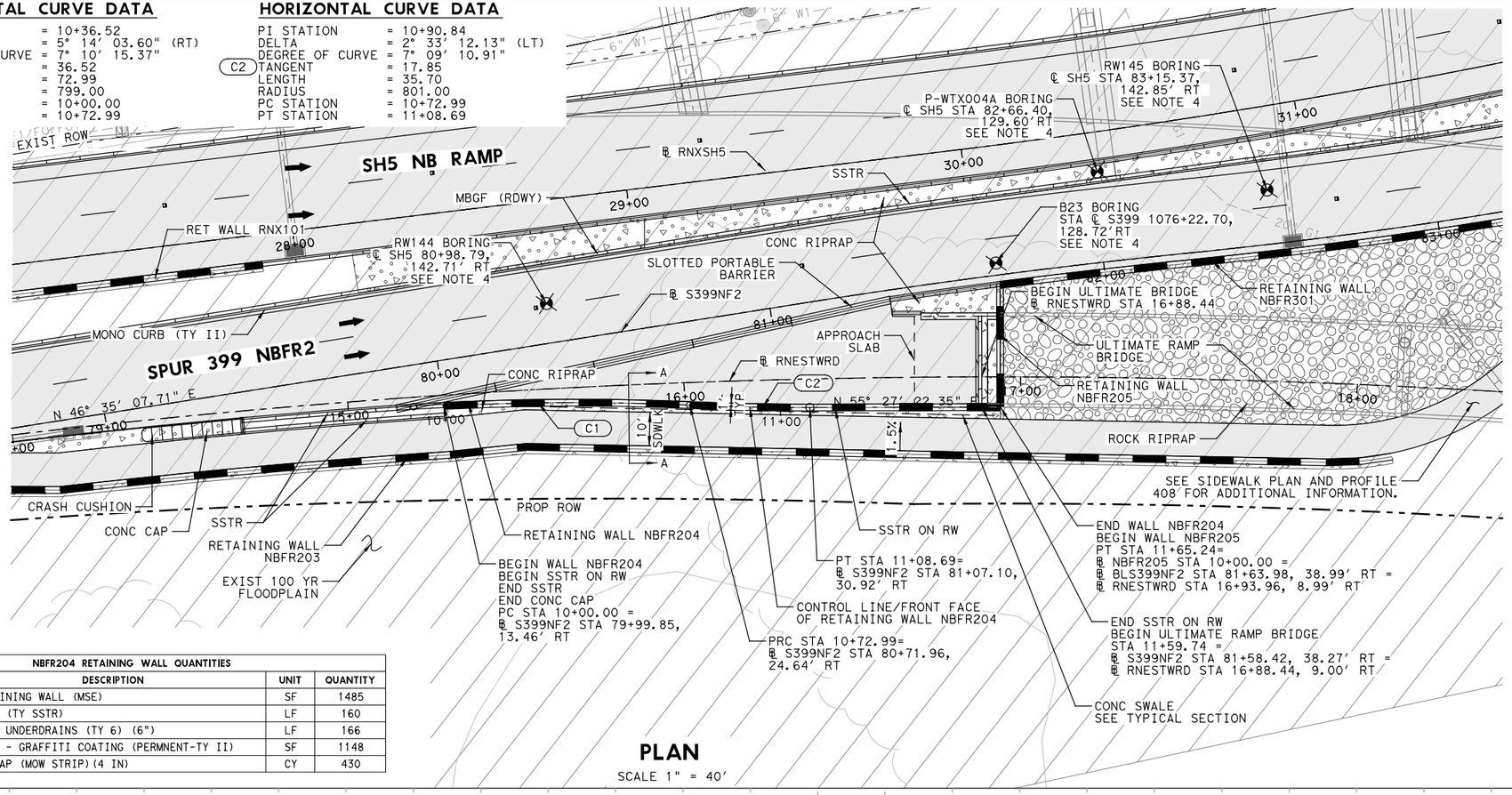
100% PLANS SUBMITTAL

HORIZONTAL CURVE DATA

C1
PI STATION = 10+36.52
DELTA = 5° 14′ 03.60" (RT)
DEGREE OF CURVE = 7° 10′ 15.37"
TANGENT = 36.52
LENGTH = 72.99
RADIUS = 799.00
PC STATION = 10+00.00
PT STATION = 10+72.99

HORIZONTAL CURVE DATA

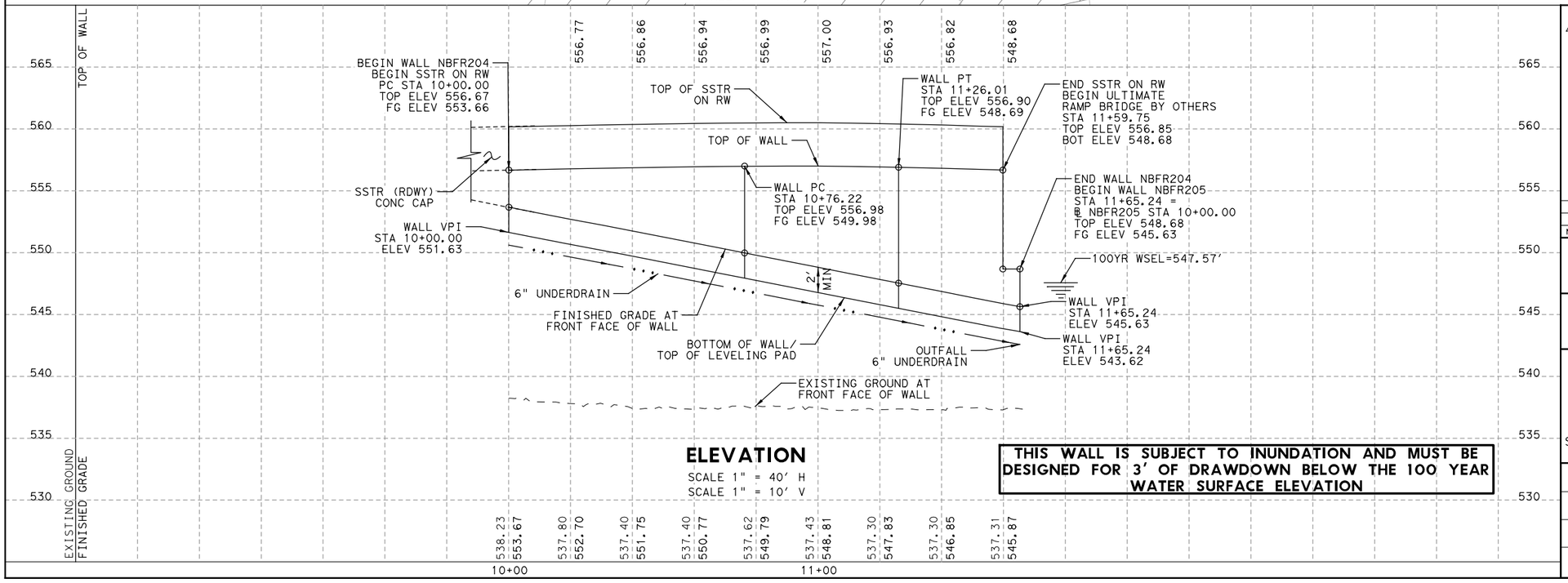
C2
PI STATION = 10+90.84
DELTA = 2° 33′ 12.13" (LT)
DEGREE OF CURVE = 7° 09′ 10.91"
TANGENT = 17.85
LENGTH = 35.70
RADIUS = 801.00
PC STATION = 10+72.99
PT STATION = 11+08.69



PLAN

SCALE 1" = 40′

NBFR204 RETAINING WALL QUANTITIES			
ITEM	DESCRIPTION	UNIT	QUANTITY
423-7001	RETAINING WALL (MSE)	SF	1485
450-7024	RAIL (TY SSTR)	LF	160
556-7006	PIPE UNDERDRAINS (TY 6) (6")	LF	166
740-7005	ANTI - GRAFFITI COATING (PERMNENT-TY II)	SF	1148
432-7013	RIPRAP (MOW STRIP)(4 IN)	CY	430



ELEVATION

SCALE 1" = 40′ H
SCALE 1" = 10′ V

THIS WALL IS SUBJECT TO INUNDATION AND MUST BE DESIGNED FOR 3′ OF DRAWDOWN BELOW THE 100 YEAR WATER SURFACE ELEVATION

0 20 40 60 80
HORIZ. SCALE IN FEET
0 5 10 15 20
VERT. SCALE IN FEET

LEGEND

- PROPOSED TRAFFIC FLOW
- EXIST ROW
- PROP ROW
- PROP RETAINING WALL
- PROP TEMP SHORING WALL
- PROP PAVEMENT
- PROP BRIDGE/APPROACH SLAB
- EXIST 100 YEAR FLOODPLAIN
- PROP ROCK RIPRAP
- PROP CONCRETE RIPRAP

NOTES:

1. SEE RW(MSE)(DD)(MOD) DESIGN DATA FOR SOIL STRENGTH PARAMETERS AND EARTH REINFORCEMENT REQUIREMENTS. SEE GENERAL NOTES FOR TYPE OF FILL BEHIND MSE WALL.
2. UNLESS OTHERWISE NOTED IN THE PLANS, THE TOP OF THE LEVELING PAD IS LOCATED 2 FEET OR DEEPER BELOW THE FINISHED GRADE.
3. SURFACE AREA OF RETAINING WALL IS MEASURED FROM THE TOP OF RETAINING WALL TO THE TOP OF THE LEVELING PAD. FOOTING ADJUSTMENTS MADE IN THE FIELD ARE NOT MEASURED.
4. ⊕ -DENOTES SOIL BORING LOCATION. SEE BORING LOG DATA SHEETS FOR MORE INFORMATION.
5. SEE DRAINAGE PLANS FOR MORE INFORMATION.
6. MOW STRIP SHALL BE CLASS "B" CONCRETE PER TXDOT ITEM 421. "HYDRAULIC CEMENT CONCRETE."
7. THE LOCATIONS OF EXISTING UTILITIES AND STRUCTURES SHOWN ARE BASED ON AVAILABLE SURVEY DATA. THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF ALL EXISTING UTILITIES AND STRUCTURES, AND NOTIFY ENGINEER OF ANY CONFLICTS BEFORE COMMENCING WORK.
8. SEE RW(MSE), RW(EM), RW(RI) AND RW(TRF) STANDARDS FOR ADDITIONAL DETAILS.
9. FOR OTHER DETAILS NOT SHOWN, SEE RETAINING WALL TYPICAL SECTIONS SHEET.
10. SEE TYPE SSTR/C402 RAIL FOR ADDITIONAL DETAILS.
11. CEMENT STABILIZED BACKFILL IS NOT PERMITTED.

1 REVISED 11/14/2024

11/14/2024

STATE OF TEXAS
BRIAN VERWIJST
127741
LICENSED
PROFESSIONAL ENGINEER

NO.	DATE	REVISION	APPROVED

HDR Engineering, Inc.
Firm Registration No. F-754
17111 Preston Road, Suite 300
Dallas, Texas 75248
972.960.4400

SPUR 399
RETAINING WALL NBFR204
PLAN AND PROFILE
BEGIN TO END

SCALE: 1"=40′-H
1"=10′-V

SHEET 1 OF 1

DESIGN	FED.RD. DIV.NO.	FEDERAL-AID PROJECT NO.		HIGHWAY NO.
GRAPHICS CMR	6	SEE TITLE SHEET		SH5, ETC.
CHECK	STATE	DISTRICT	COUNTY	SHEET NO.
	TEXAS	DAL	COLLIN	638
CHECK	CONTROL	SECTION	JOB	
	0047	05	057, ETC.	

PLOT DRIVER: TXDOT_PDF_BW.pltcfg DATE: 11/14/2024 TIME: 4:02:3 PM SCALE: 1:40
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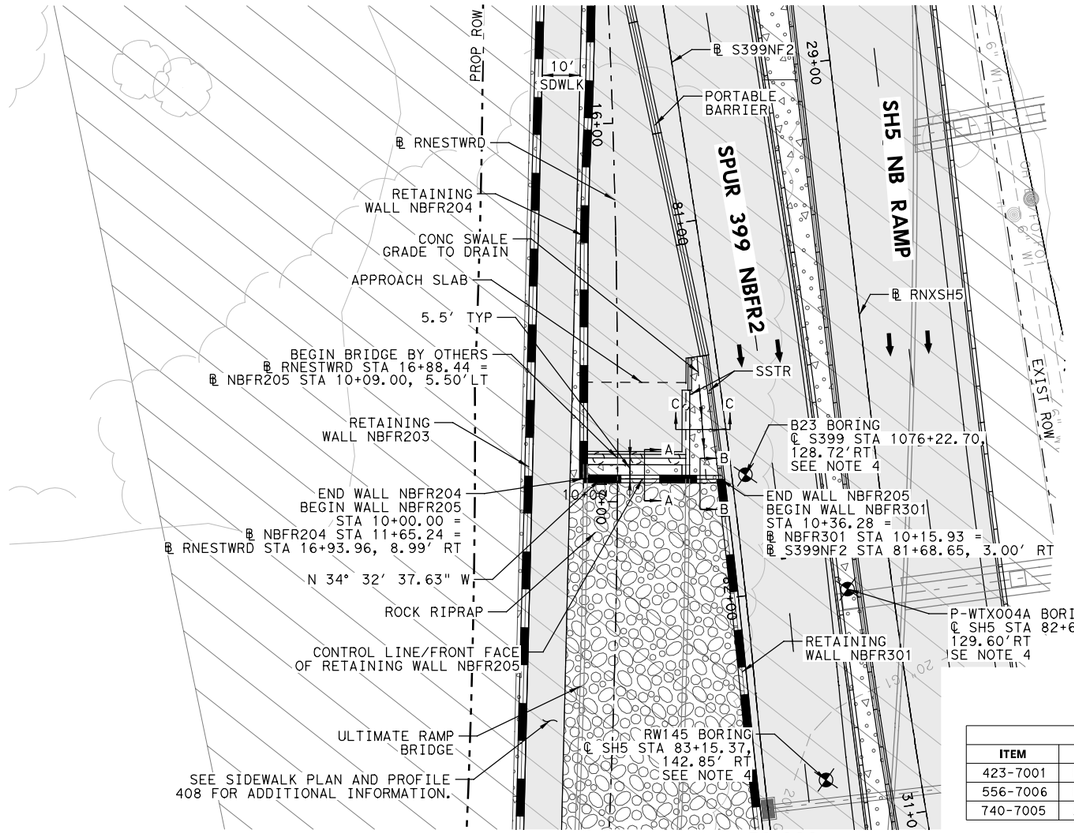
FILE: S399NP66.dgn

100% PLANS SUBMITTAL



PLAN

SCALE 1" = 40'

NBFR205 RETAINING WALL QUANTITIES			
ITEM	DESCRIPTION	UNIT	QUANTITY
423-7001	RETAINING WALL (MSE)	SF	254
556-7006	PIPE UNDERDRAINS (TY 6) (6")	LF	37
740-7005	ANTI - GRAFFITI COATING (PERMNENT-TY II)	SF	181

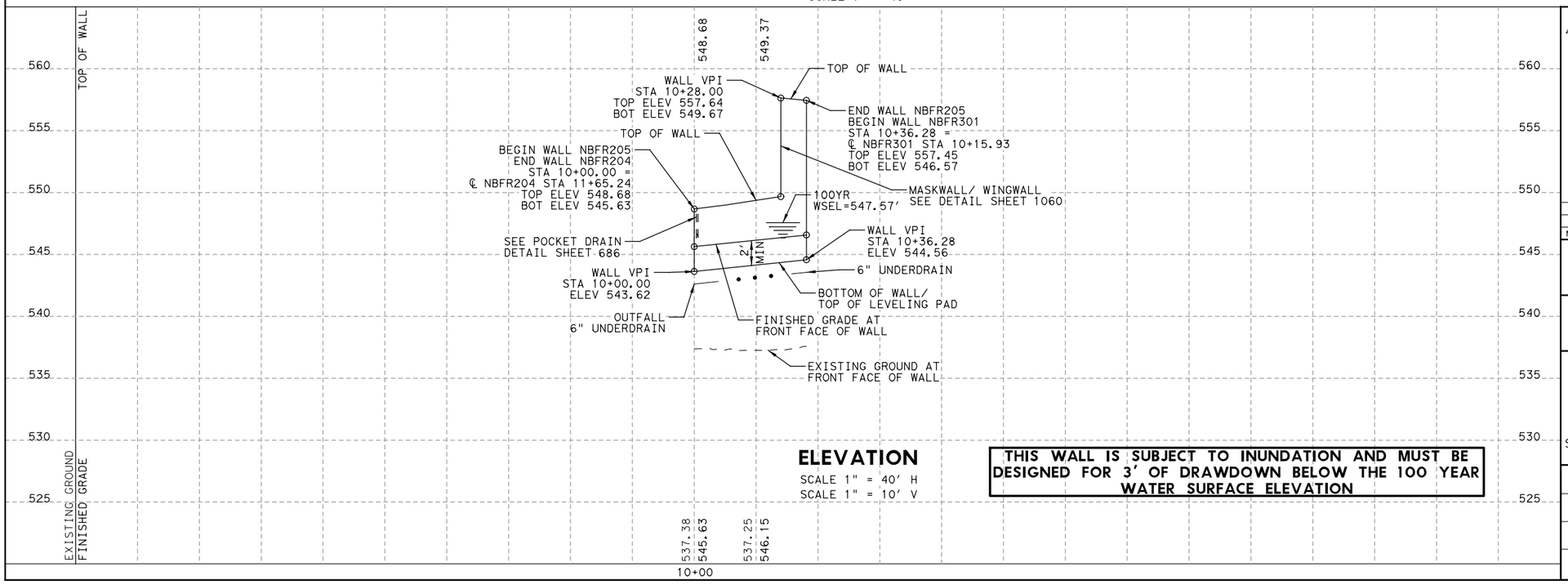
0 20 40 60 80
HORIZ. SCALE IN FEET
0 5 10 15 20
VERT. SCALE IN FEET

LEGEND

- PROPOSED TRAFFIC FLOW
- EXIST ROW
- PROP ROW
- PROP RETAINING WALL
- PROP TEMP SHORING WALL
- PROP PAVEMENT
- PROP BRIDGE/APPROACH SLAB
- EXIST 100 YEAR FLOODPLAIN
- PROP ROCK RIPRAP
- PROP CONCRETE RIPRAP

NOTES:

1. SEE RW(MSE)(DD)(MOD) DESIGN DATA FOR SOIL STRENGTH PARAMETERS AND EARTH REINFORCEMENT REQUIREMENTS. SEE GENERAL NOTES FOR TYPE OF FILL BEHIND MSE WALL.
2. UNLESS OTHERWISE NOTED IN THE PLANS, THE TOP OF THE LEVELING PAD IS LOCATED 2 FEET OR DEEPER BELOW THE FINISHED GRADE.
3. SURFACE AREA OF RETAINING WALL IS MEASURED FROM THE TOP OF RETAINING WALL TO THE TOP OF THE LEVELING PAD. FOOTING ADJUSTMENTS MADE IN THE FIELD ARE NOT MEASURED.
4. ◔ -DENOTES SOIL BORING LOCATION. SEE BORING LOG DATA SHEETS FOR MORE INFORMATION.
5. SEE DRAINAGE PLANS FOR MORE INFORMATION.
6. MOW STRIP SHALL BE CLASS "B" CONCRETE PER TXDOT ITEM 421. "HYDRAULIC CEMENT CONCRETE."
7. THE LOCATIONS OF EXISTING UTILITIES AND STRUCTURES SHOWN ARE BASED ON AVAILABLE SURVEY DATA. THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF ALL EXISTING UTILITIES AND STRUCTURES, AND NOTIFY ENGINEER OF ANY CONFLICTS BEFORE COMMENCING WORK.
8. SEE RW(MSE), RW(EM), RW(RI) AND RW(TRF) STANDARDS FOR ADDITIONAL DETAILS.
9. FOR OTHER DETAILS NOT SHOWN, SEE RETAINING WALL TYPICAL SECTIONS SHEET.
10. SEE TYPE SSTR/C402 RAIL FOR ADDITIONAL DETAILS.
11. CEMENT STABILIZED BACKFILL IS NOT PERMITTED.



ELEVATION

SCALE 1" = 40' H
SCALE 1" = 10' V

THIS WALL IS SUBJECT TO INUNDATION AND MUST BE DESIGNED FOR 3' OF DRAWDOWN BELOW THE 100 YEAR WATER SURFACE ELEVATION

1 REVISED 11/14/2024

11/14/2024

STATE OF TEXAS
BRIAN VERWIJST
127741
PROFESSIONAL ENGINEER

NO.	DATE	REVISION	APPROVED

HDR Engineering, Inc.
Firm Registration No. F-754
17111 Preston Road, Suite 300
Dallas, Texas 75248
972.960.4400

Texas Department of Transportation

SPUR 399
RETAINING WALL NBFR205
PLAN AND PROFILE
BEGIN TO END

SCALE: 1"=40'-H
1"=10'-V

SHEET 1 OF 1

DESIGN	FED.RD. DIV.NO.	FEDERAL-AID PROJECT NO.		HIGHWAY NO.
GRAPHICS	6	SEE TITLE SHEET		SH5, ETC.
	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK	TEXAS	DAL	COLLIN	640
CHECK	CONTROL	SECTION	JOB	
	0047	05	057, ETC.	

PLOT DRIVER: TXDOT_PDF_BW.pltcfg
USER: ASRINIVASA
FILE: S399WP67.dgn
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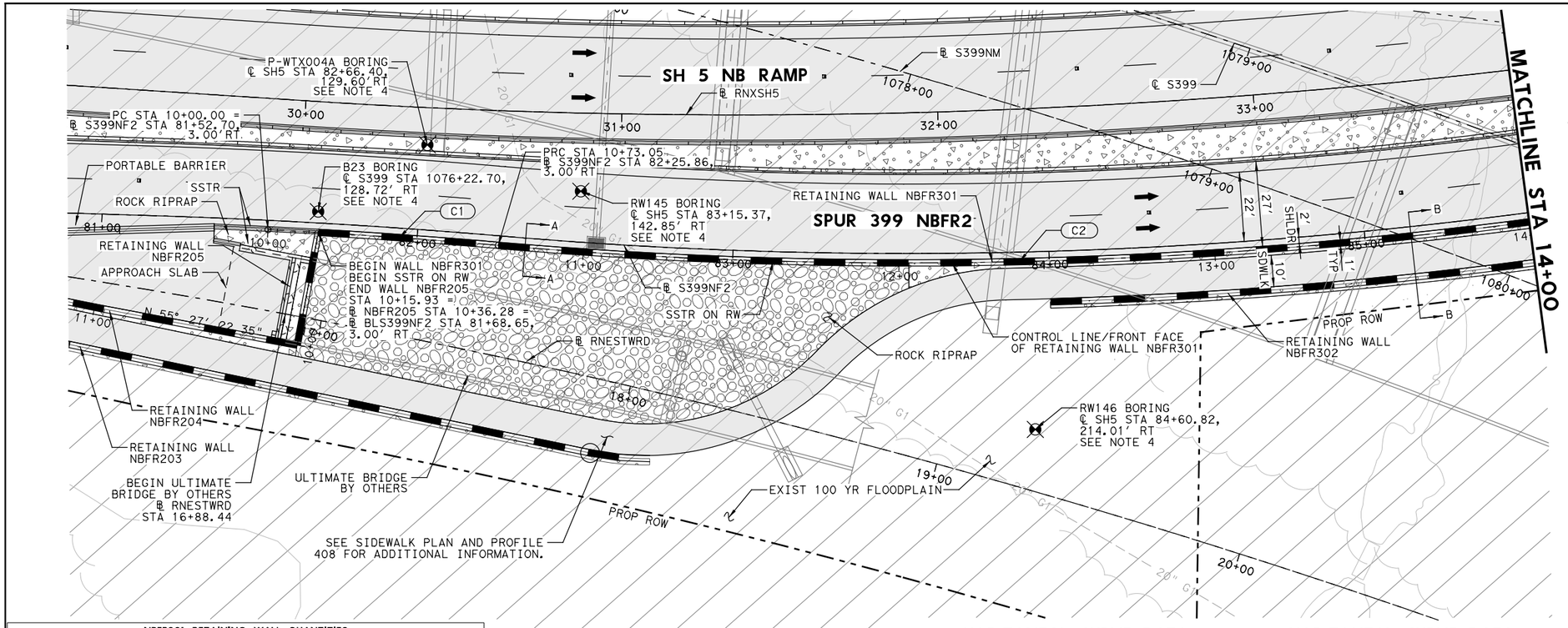
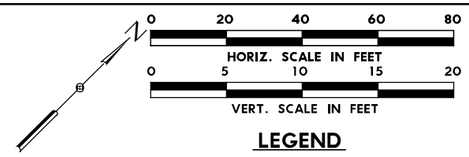
100% PLANS SUBMITTAL





LEGEND

- PROPOSED TRAFFIC FLOW
- EXIST ROW
- PROP ROW
- PROP RETAINING WALL
- PROP TEMP SHORING WALL
- PROP PAVEMENT
- PROP BRIDGE/APPROACH SLAB
- EXIST 100 YEAR FLOODPLAIN
- PROP ROCK RIPRAP
- PROP CONCRETE RIPRAP

NOTES:

1. SEE RW(MSE)(DD)(MOD) DESIGN DATA FOR SOIL STRENGTH PARAMETERS AND EARTH REINFORCEMENT REQUIREMENTS. SEE GENERAL NOTES FOR TYPE OF FILL BEHIND MSE WALL.
2. UNLESS OTHERWISE NOTED IN THE PLANS, THE TOP OF THE LEVELING PAD IS LOCATED 2 FEET OR DEEPER BELOW THE FINISHED GRADE.
3. SURFACE AREA OF RETAINING WALL IS MEASURED FROM THE TOP OF RETAINING WALL TO THE TOP OF THE LEVELING PAD. FOOTING ADJUSTMENTS MADE IN THE FIELD ARE NOT MEASURED.
4. ⊕ -DENOTES SOIL BORING LOCATION. SEE BORING LOG DATA SHEETS FOR MORE INFORMATION.
5. SEE DRAINAGE PLANS FOR MORE INFORMATION.
6. MOW STRIP SHALL BE CLASS "B" CONCRETE PER TXDOT ITEM 421. "HYDRAULIC CEMENT CONCRETE."
7. THE LOCATIONS OF EXISTING UTILITIES AND STRUCTURES SHOWN ARE BASED ON AVAILABLE SURVEY DATA. THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF ALL EXISTING UTILITIES AND STRUCTURES, AND NOTIFY ENGINEER OF ANY CONFLICTS BEFORE COMMENCING WORK.
8. SEE RW(MSE), RW(EM), RW(RI) AND RW(TRF) STANDARDS FOR ADDITIONAL DETAILS.
9. FOR OTHER DETAILS NOT SHOWN, SEE RETAINING WALL TYPICAL SECTIONS SHEET.
10. SEE TYPE SSTR/C402 RAIL FOR ADDITIONAL DETAILS.
11. CEMENT STABILIZED BACKFILL IS NOT PERMITTED.

NBFR301 RETAINING WALL QUANTITIES

ITEM	DESCRIPTION	UNIT	QUANTITY
423-7001	RETAINING WALL (MSE)	SF	5434
450-7024	RAIL (TY SSTR)	LF	385
556-7006	PIPE UNDERDRAINS (TY 6) (6")	LF	385
740-7005	ANTI - GRAFFITI COATING (PERMNENT-TY II)	SF	4655

HORIZONTAL CURVE DATA (C1)

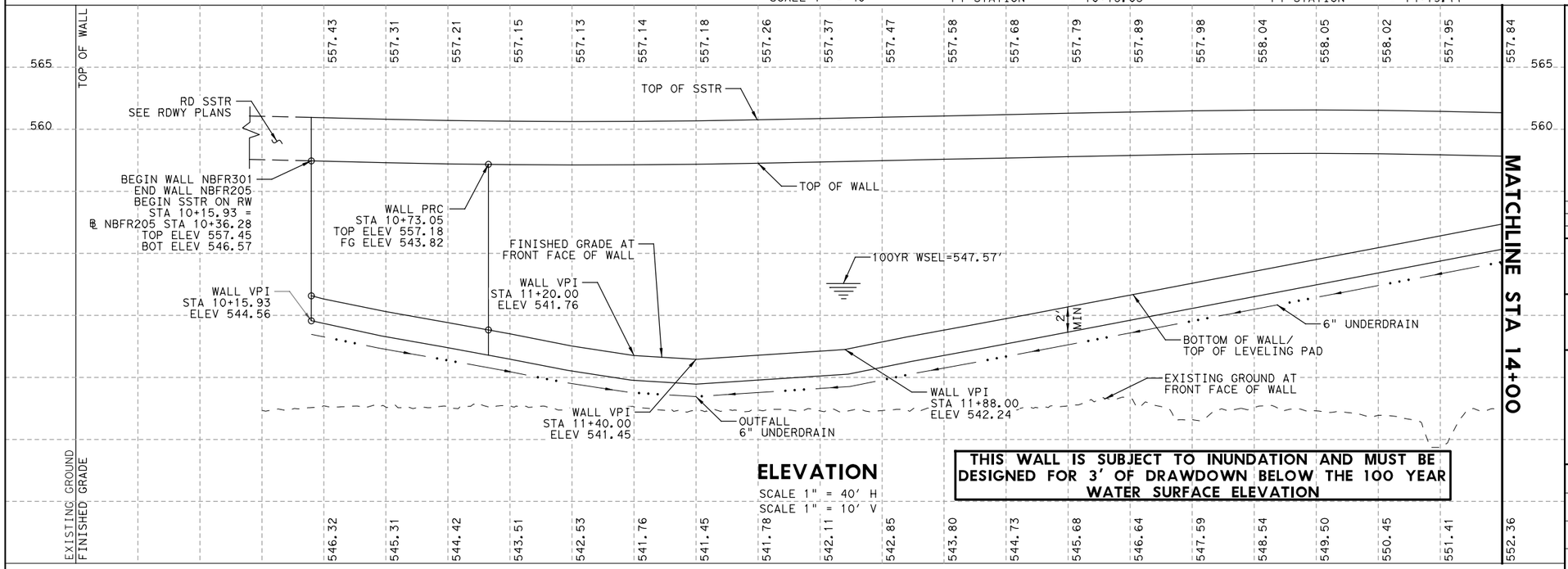
PI STATION	= 10+36.53
DELTA	= 2° 05' 45.10" (RT)
DEGREE OF CURVE	= 2° 52' 08.73"
TANGENT	= 36.53
LENGTH	= 73.05
RADIUS	= 1,997.00
PC STATION	= 10+00.00
PT STATION	= 10+73.05

HORIZONTAL CURVE DATA (C2)

PI STATION	= 12+77.66
DELTA	= 15° 30' 16.25" (LT)
DEGREE OF CURVE	= 3° 48' 43.54"
TANGENT	= 204.61
LENGTH	= 406.72
RADIUS	= 1,503.00
PC STATION	= 10+73.05
PT STATION	= 14+79.77

PLAN

SCALE 1" = 40'



ELEVATION

SCALE 1" = 40' H
SCALE 1" = 10' V

THIS WALL IS SUBJECT TO INUNDATION AND MUST BE DESIGNED FOR 3' OF DRAWDOWN BELOW THE 100 YEAR WATER SURFACE ELEVATION

1 REVISED 11/14/2024

11/14/2024

STATE OF TEXAS
BRIAN VERWIJST
127741
LICENSED
PROFESSIONAL ENGINEER

NO.	DATE	REVISION	APPROVED

HDR Engineering, Inc.
Firm Registration No. F-754
17111 Preston Road, Suite 300
Dallas, Texas 75248
972.960.4400

Texas Department of Transportation

SPUR 399
RETAINING WALL NBFR301
PLAN AND PROFILE
BEGIN TO STA 14+00

SCALE: 1"=40'-H
1"=10'-V

SHEET 1 OF 2

DESIGN	FED.RD. DIV.NO.	FEDERAL-AID PROJECT NO.		HIGHWAY NO.
GRAPHICS	6	SEE TITLE SHEET		SH5, ETC.
	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK	TEXAS	DAL	COLLIN	
CHECK	CONTROL	SECTION	JOB	642
	0047	05	057, ETC.	

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USER: ASRINIVASA
FILE: S399WP68.dgn
DATE: 11/14/2024
TIME: 4:02:13 PM
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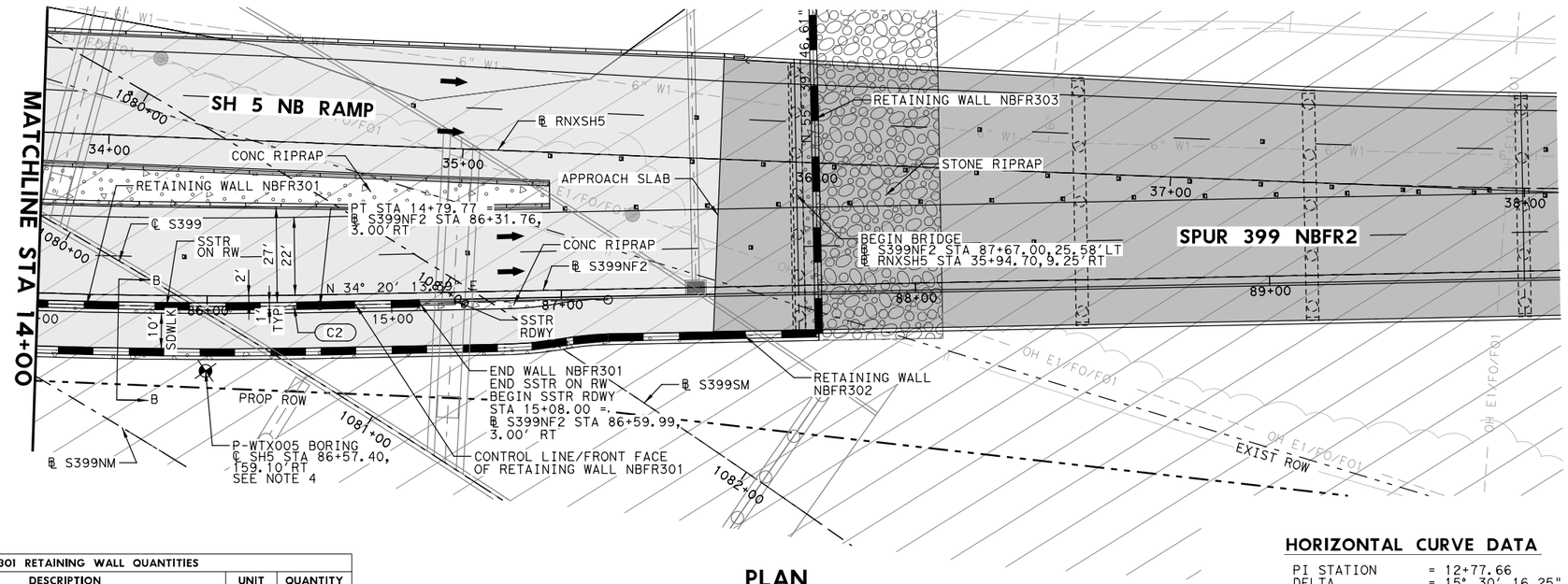
100% PLANS SUBMITTAL



PLAN

SCALE 1" = 40'

NBFR301 RETAINING WALL QUANTITIES			
ITEM	DESCRIPTION	UNIT	QUANTITY
423-7001	RETAINING WALL (MSE)	SF	494
450-7024	RAIL (TY SSTR)	LF	108
556-7006	PIPE UNDERDRAINS (TY 6) (6")	LF	109
740-7005	ANTI - GRAFFITI COATING (PERMNENT-TY II)	SF	275

HORIZONTAL CURVE DATA

C2

PI STATION	= 12+77.66
DELTA	= 15° 30' 16.25" (LT)
DEGREE OF CURVE	= 3° 48' 43.54"
TANGENT	= 204.61
LENGTH	= 406.72
RADIUS	= 1,503.00
PC STATION	= 10+73.05
PT STATION	= 14+79.77

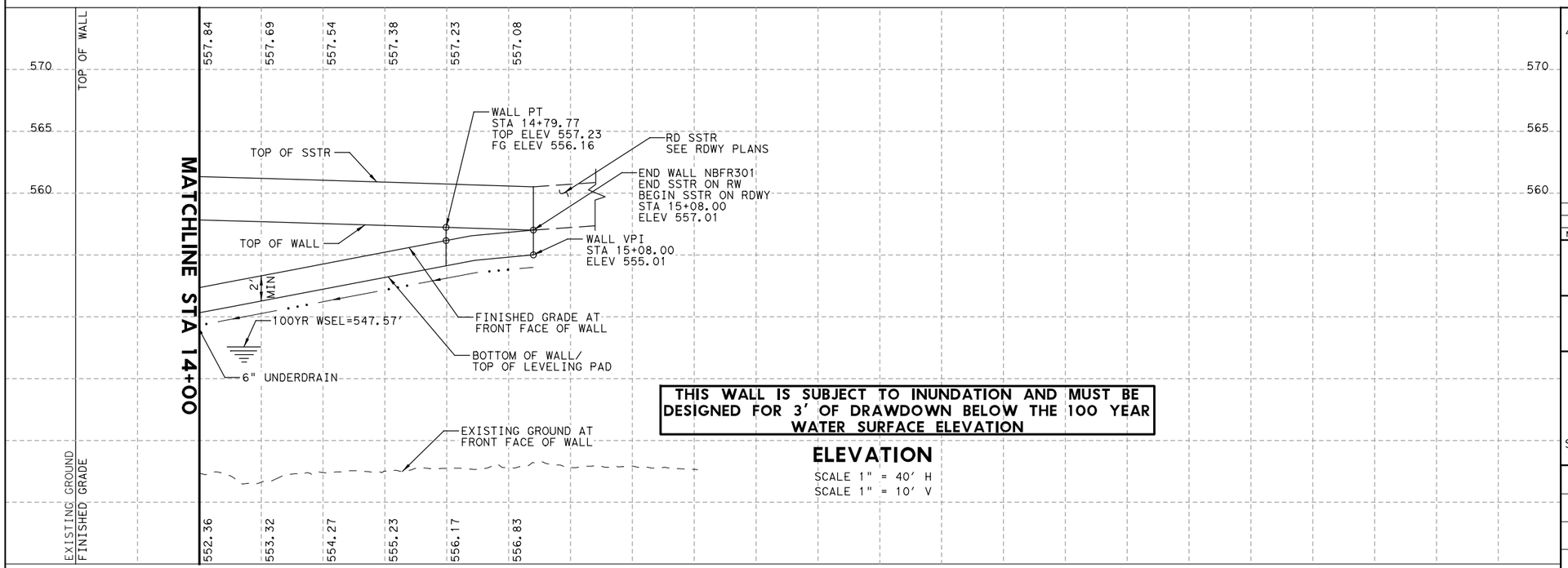
0 20 40 60 80
HORIZ. SCALE IN FEET
0 5 10 15 20
VERT. SCALE IN FEET

LEGEND

- PROPOSED TRAFFIC FLOW
- EXIST ROW
- PROP ROW
- PROP RETAINING WALL
- PROP TEMP SHORING WALL
- PROP PAVEMENT
- PROP BRIDGE/APPROACH SLAB
- EXIST 100 YEAR FLOODPLAIN
- PROP ROCK RIPRAP
- PROP CONCRETE RIPRAP

NOTES:

1. SEE RW(MSE)(DD)(MOD) DESIGN DATA FOR SOIL STRENGTH PARAMETERS AND EARTH REINFORCEMENT REQUIREMENTS. SEE GENERAL NOTES FOR TYPE OF FILL BEHIND MSE WALL.
2. UNLESS OTHERWISE NOTED IN THE PLANS, THE TOP OF THE LEVELING PAD IS LOCATED 2 FEET OR DEEPER BELOW THE FINISHED GRADE.
3. SURFACE AREA OF RETAINING WALL IS MEASURED FROM THE TOP OF RETAINING WALL TO THE TOP OF THE LEVELING PAD. FOOTING ADJUSTMENTS MADE IN THE FIELD ARE NOT MEASURED.
4. ◔ -DENOTES SOIL BORING LOCATION. SEE BORING LOG DATA SHEETS FOR MORE INFORMATION.
5. SEE DRAINAGE PLANS FOR MORE INFORMATION.
6. MOW STRIP SHALL BE CLASS "B" CONCRETE PER TXDOT ITEM 421. "HYDRAULIC CEMENT CONCRETE."
7. THE LOCATIONS OF EXISTING UTILITIES AND STRUCTURES SHOWN ARE BASED ON AVAILABLE SURVEY DATA. THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF ALL EXISTING UTILITIES AND STRUCTURES, AND NOTIFY ENGINEER OF ANY CONFLICTS BEFORE COMMENCING WORK.
8. SEE RW(MSE), RW(EM), RW(RI) AND RW(TRF) STANDARDS FOR ADDITIONAL DETAILS.
9. FOR OTHER DETAILS NOT SHOWN, SEE RETAINING WALL TYPICAL SECTIONS SHEET.
10. SEE TYPE SSTR/C402 RAIL FOR ADDITIONAL DETAILS.
11. CEMENT STABILIZED BACKFILL IS NOT PERMITTED.



THIS WALL IS SUBJECT TO INUNDATION AND MUST BE DESIGNED FOR 3' OF DRAWDOWN BELOW THE 100 YEAR WATER SURFACE ELEVATION

ELEVATION

SCALE 1" = 40' H
SCALE 1" = 10' V

1 REVISED 11/14/2024

11/14/2024

STATE OF TEXAS
BRIAN VERWIJST
127741
LICENSED PROFESSIONAL ENGINEER

NO.	DATE	REVISION	APPROVED

HDR Engineering, Inc.
Firm Registration No. F-754
17111 Preston Road, Suite 300
Dallas, Texas 75248
972.960.4400

Texas Department of Transportation

SPUR 399
RETAINING WALL NBFR301
PLAN AND PROFILE
STA 14+00 TO END

SCALE: 1"=40'-H
1"=10'-V

SHEET 2 OF 2

DESIGN	FED.RD. DIV.NO.	FEDERAL-AID PROJECT NO.		HIGHWAY NO.
GRAPHICS	6	SEE TITLE SHEET		SH5, ETC.
	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK	TEXAS	DAL	COLLIN	643
CHECK	CONTROL	SECTION	JOB	
	0047	05	057, ETC.	

PLOT DRIVER: TXDOT_PDF_BW.pltcfg DATE: 11/14/2024 TIME: 4:02:3 PM SCALE: 1:40
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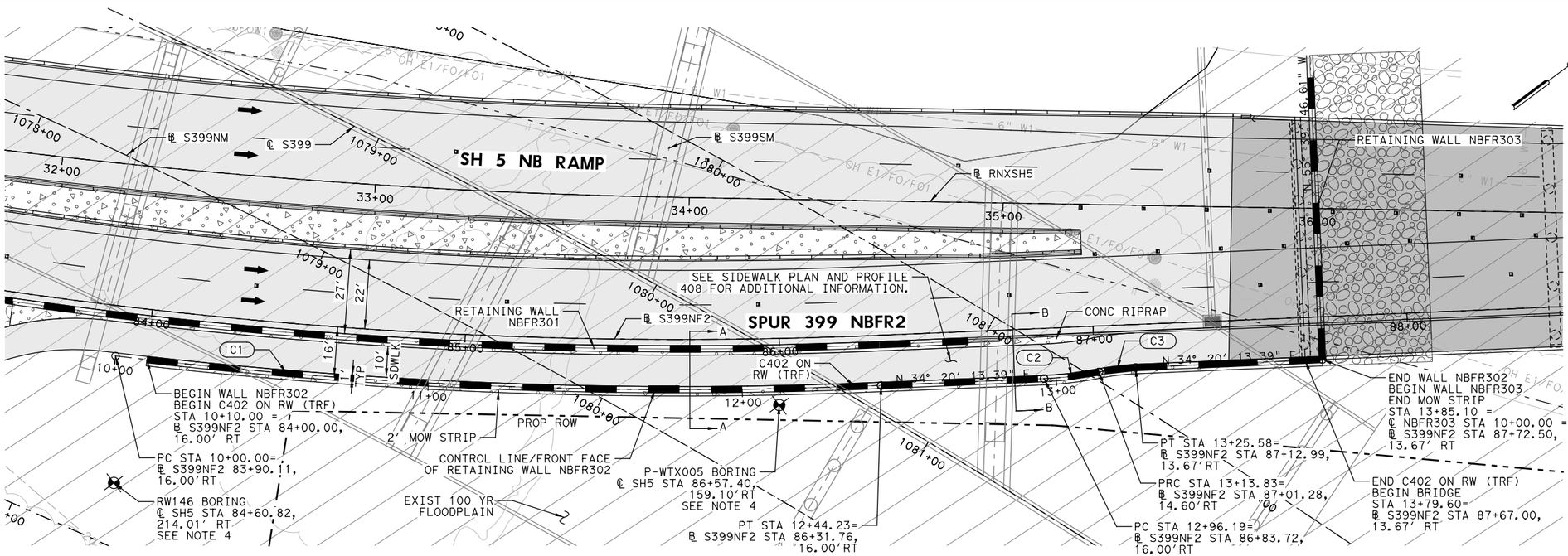
FILE: S399WP69.dgn

100% PLANS SUBMITTAL



0 20 40 60 80
HORIZ. SCALE IN FEET
0 5 10 15 20
VERT. SCALE IN FEET

LEGEND

- PROPOSED TRAFFIC FLOW
- EXIST ROW
- PROP ROW
- PROP RETAINING WALL
- PROP TEMP SHORING WALL
- PROP PAVEMENT
- PROP BRIDGE/APPROACH SLAB
- EXIST 100 YEAR FLOODPLAIN
- PROP ROCK RIPRAP
- PROP CONCRETE RIPRAP

NOTES:

1. SEE RW(MSE)(DD)(MOD) DESIGN DATA FOR SOIL STRENGTH PARAMETERS AND EARTH REINFORCEMENT REQUIREMENTS. SEE GENERAL NOTES FOR TYPE OF FILL BEHIND MSE WALL.
2. UNLESS OTHERWISE NOTED IN THE PLANS, THE TOP OF THE LEVELING PAD IS LOCATED 2 FEET OR DEEPER BELOW THE FINISHED GRADE.
3. SURFACE AREA OF RETAINING WALL IS MEASURED FROM THE TOP OF RETAINING WALL TO THE TOP OF THE LEVELING PAD. FOOTING ADJUSTMENTS MADE IN THE FIELD ARE NOT MEASURED.
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9. FOR OTHER DETAILS NOT SHOWN, SEE RETAINING WALL TYPICAL SECTIONS SHEET.
10. SEE TYPE SSTR/C402 RAIL FOR ADDITIONAL DETAILS.
11. CEMENT STABILIZED BACKFILL IS NOT PERMITTED.

HORIZONTAL CURVE DATA (C1)

PI STATION	= 11+22.38
DELTA	= 9° 13' 50.19" (LT)
DEGREE OF CURVE	= 3° 46' 45.86"
TANGENT	= 122.38
LENGTH	= 243.97
RADIUS	= 1,516.00
PC STATION	= 10+00.00
PT STATION	= 12+44.23

HORIZONTAL CURVE DATA (C2)

PI STATION	= 13+05.03
DELTA	= 9° 06' 10.95" (LT)
DEGREE OF CURVE	= 51° 37' 04.15"
TANGENT	= 8.84
LENGTH	= 17.64
RADIUS	= 111.00
PC STATION	= 12+96.19
PT STATION	= 13+13.83

HORIZONTAL CURVE DATA (C3)

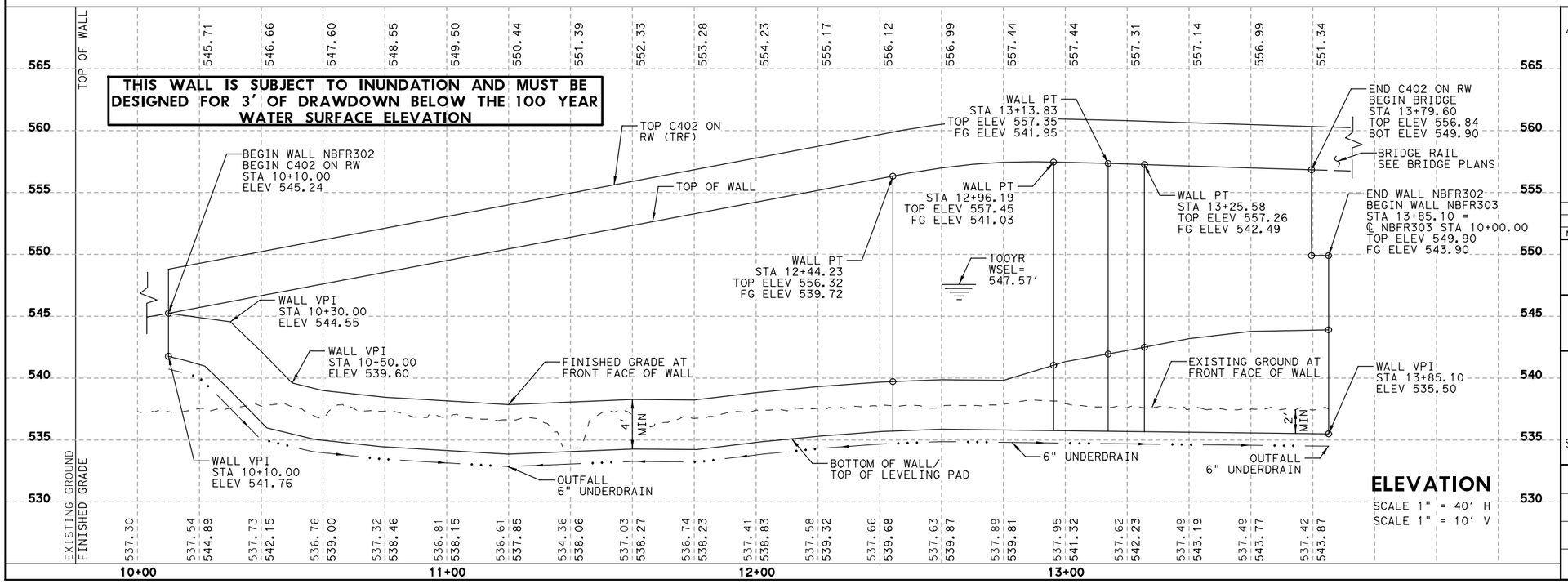
PI STATION	= 13+19.72
DELTA	= 9° 06' 10.95" (RT)
DEGREE OF CURVE	= 77° 25' 36.23"
TANGENT	= 5.89
LENGTH	= 11.76
RADIUS	= 74.00
PC STATION	= 13+13.83
PT STATION	= 13+25.58

NBFR302 RETAINING WALL QUANTITIES

ITEM	DESCRIPTION	UNIT	QUANTITY
423-7001	RETAINING WALL (MSE)	SF	6614
432-7013	RIPRAP (MOW STRIP)(4 IN)	CY	10
450-7036	RAIL (TY C402)	LF	370
556-7006	PIPE UNDERDRAINS (TY 6) (6")	LF	376
740-7005	ANTI - GRAFFITI COATING (PERMNENT-TY II)	SF	4779

PLAN

SCALE 1" = 40'



ELEVATION

SCALE 1" = 40' H
SCALE 1" = 10' V

1 REVISED 11/14/2024

11/14/2024

STATE OF TEXAS
BRIAN VERWIJST
127741
LICENSED
PROFESSIONAL ENGINEER

NO.	DATE	REVISION	APPROVED

HDR Engineering, Inc.
Firm Registration No. F-754
17111 Preston Road, Suite 300
Dallas, Texas 75248
972.960.4400

SPUR 399
RETAINING WALL NBFR302
PLAN AND PROFILE
BEGIN TO END

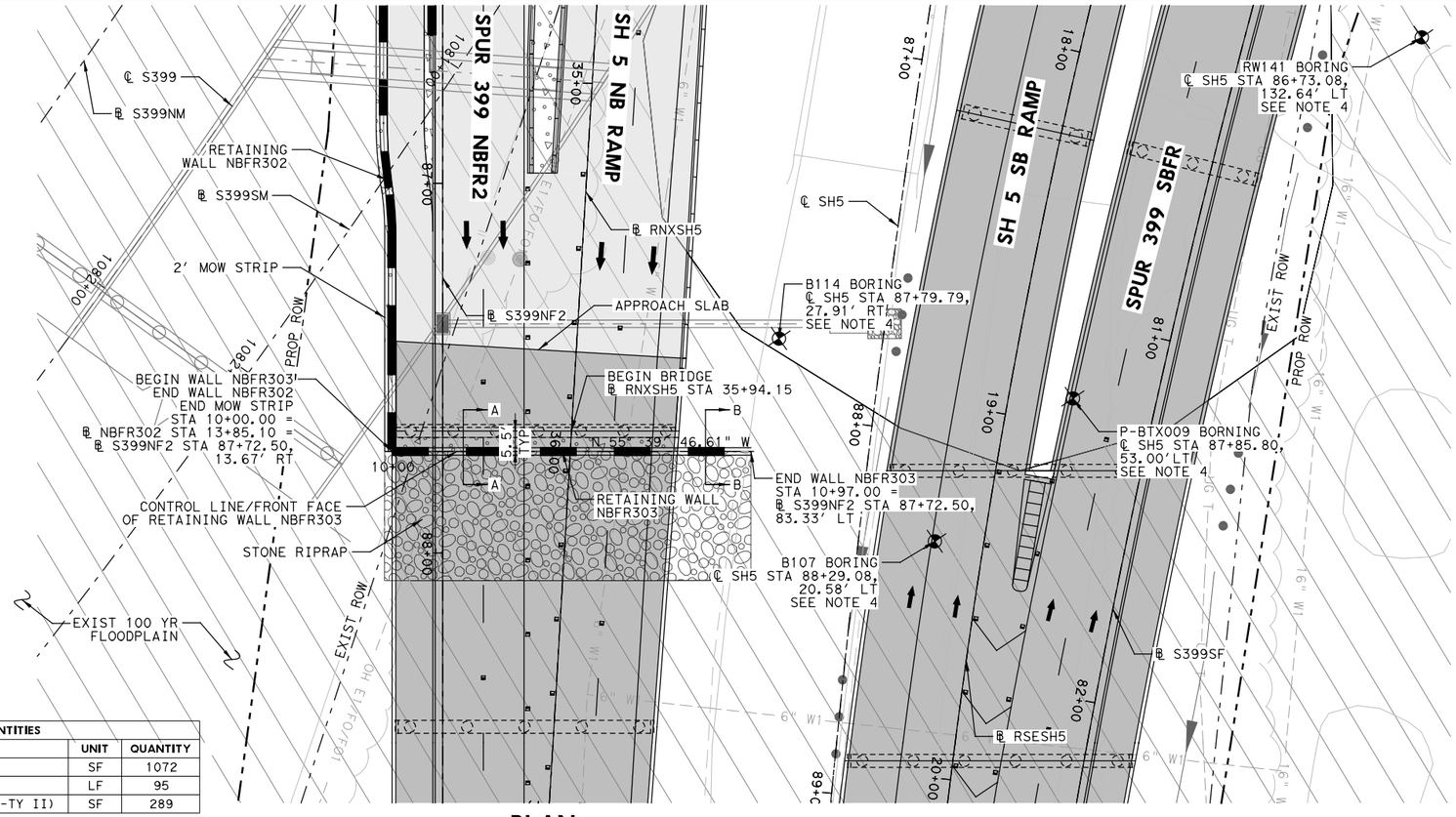
SCALE: 1"=40'-H
1"=10'-V

SHEET 1 OF 1

DESIGN	FED.RD. DIV.NO.	FEDERAL-AID PROJECT NO.		HIGHWAY NO.
GRAPHICS	6	SEE TITLE SHEET		SH5, ETC.
CHECK	STATE	DISTRICT	COUNTY	SHEET NO.
	TEXAS	DAL	COLLIN	645
CHECK	CONTROL	SECTION	JOB	
	0047	05	057, ETC.	

PLOT DRIVER: TXDOT_PDF_BW.pltcfg
USER: ASRINIVASA
FILE: S399WP70.dgn
DATE: 11/14/2024
TIME: 4:02:13 PM
SCALE: 1:40
PENTABLE: I08I15-SP399-SEGI.tbl

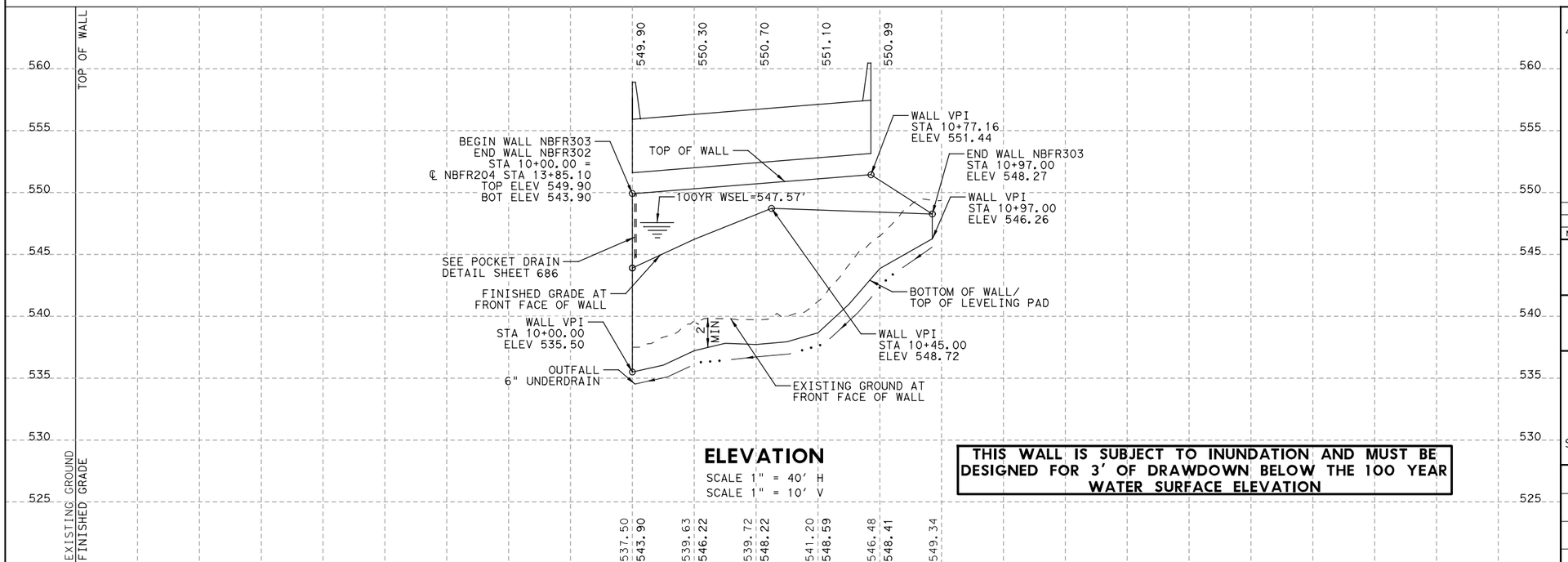
100% PLANS SUBMITTAL



PLAN

SCALE 1" = 40'

NBFR303 RETAINING WALL QUANTITIES			
ITEM	DESCRIPTION	UNIT	QUANTITY
423-7001	RETAINING WALL (MSE)	SF	1072
556-7006	PIPE UNDERDRAINS (TY 6) (6")	LF	95
740-7005	ANTI - GRAFFITI COATING (PERMNENT-TY II)	SF	289



ELEVATION

SCALE 1" = 40' H
SCALE 1" = 10' V

THIS WALL IS SUBJECT TO INUNDATION AND MUST BE DESIGNED FOR 3' OF DRAWDOWN BELOW THE 100 YEAR WATER SURFACE ELEVATION

HORIZ. SCALE IN FEET: 0 20 40 60 80
VERT. SCALE IN FEET: 0 5 10 15 20

LEGEND

- PROPOSED TRAFFIC FLOW
- EXIST ROW
- PROP ROW
- PROP RETAINING WALL
- PROP TEMP SHORING WALL
- PROP PAVEMENT
- PROP BRIDGE/APPROACH SLAB
- EXIST 100 YEAR FLOODPLAIN
- PROP ROCK RIPRAP
- PROP CONCRETE RIPRAP

NOTES:

1. SEE RW(MSE)(DD)(MOD) DESIGN DATA FOR SOIL STRENGTH PARAMETERS AND EARTH REINFORCEMENT REQUIREMENTS. SEE GENERAL NOTES FOR TYPE OF FILL BEHIND MSE WALL.
2. UNLESS OTHERWISE NOTED IN THE PLANS, THE TOP OF THE LEVELING PAD IS LOCATED 2 FEET OR DEEPER BELOW THE FINISHED GRADE.
3. SURFACE AREA OF RETAINING WALL IS MEASURED FROM THE TOP OF RETAINING WALL TO THE TOP OF THE LEVELING PAD. FOOTING ADJUSTMENTS MADE IN THE FIELD ARE NOT MEASURED.
4. ⌖ -DENOTES SOIL BORING LOCATION. SEE BORING LOG DATA SHEETS FOR MORE INFORMATION.
5. SEE DRAINAGE PLANS FOR MORE INFORMATION.
6. MOW STRIP SHALL BE CLASS "B" CONCRETE PER TXDOT ITEM 421. "HYDRAULIC CEMENT CONCRETE."
7. THE LOCATIONS OF EXISTING UTILITIES AND STRUCTURES SHOWN ARE BASED ON AVAILABLE SURVEY DATA. THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF ALL EXISTING UTILITIES AND STRUCTURES, AND NOTIFY ENGINEER OF ANY CONFLICTS BEFORE COMMENCING WORK.
8. SEE RW(MSE), RW(EM), RW(RI) AND RW(TRF) STANDARDS FOR ADDITIONAL DETAILS.
9. FOR OTHER DETAILS NOT SHOWN, SEE RETAINING WALL TYPICAL SECTIONS SHEET.
10. SEE TYPE SSTR/C402 RAIL FOR ADDITIONAL DETAILS.
11. CEMENT STABILIZED BACKFILL IS NOT PERMITTED.

1 REVISED 11/14/2024

11/14/2024

STATE OF TEXAS
BRIAN VERWIJST
127741
PROFESSIONAL ENGINEER

NO.	DATE	REVISION	APPROVED

HDR Engineering, Inc.
Firm Registration No. F-754
17111 Preston Road, Suite 300
Dallas, Texas 75248
972.960.4400

Texas Department of Transportation

SPUR 399
RETAINING WALL NBFR303
PLAN AND PROFILE
BEGIN TO END

SCALE: 1"=40'-H
1"=10'-V

SHEET 1 OF 1

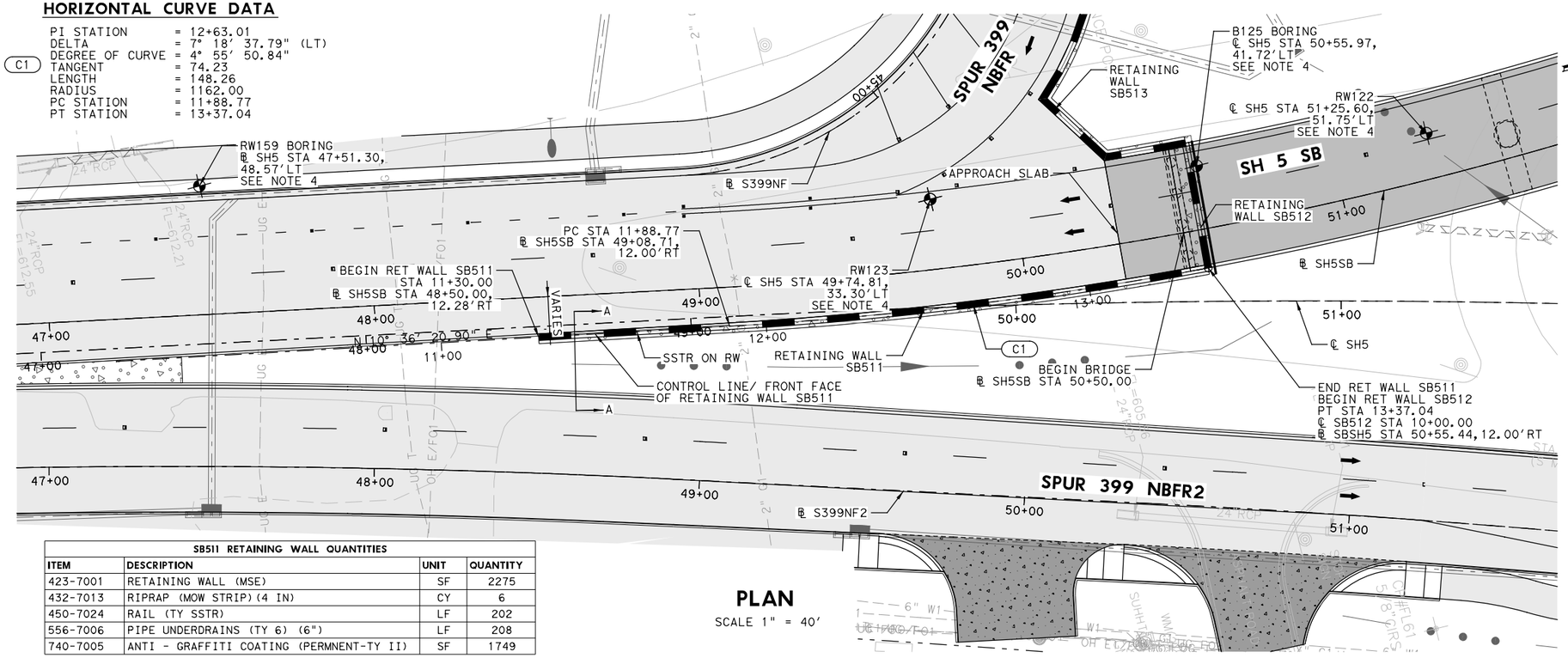
DESIGN	FED.RD. DIV.NO.	FEDERAL-AID PROJECT NO.		HIGHWAY NO.
GRAPHICS	6	SEE TITLE SHEET		SH5, ETC.
	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK	TEXAS	DAL	COLLIN	647
CHECK	CONTROL	SECTION	JOB	
	0047	05	057, ETC.	

PLOT DRIVER: TXDOT_PDF_BW.pltcfg
USER: ASRINIVASA
FILE: S399MP71.dgn
DATE: 11/14/2024
TIME: 4:02:3 PM
SCALE: 1:40
PENTABLE: 10IBII5-SP399-SEGI.tbl

100% PLANS SUBMITTAL

HORIZONTAL CURVE DATA

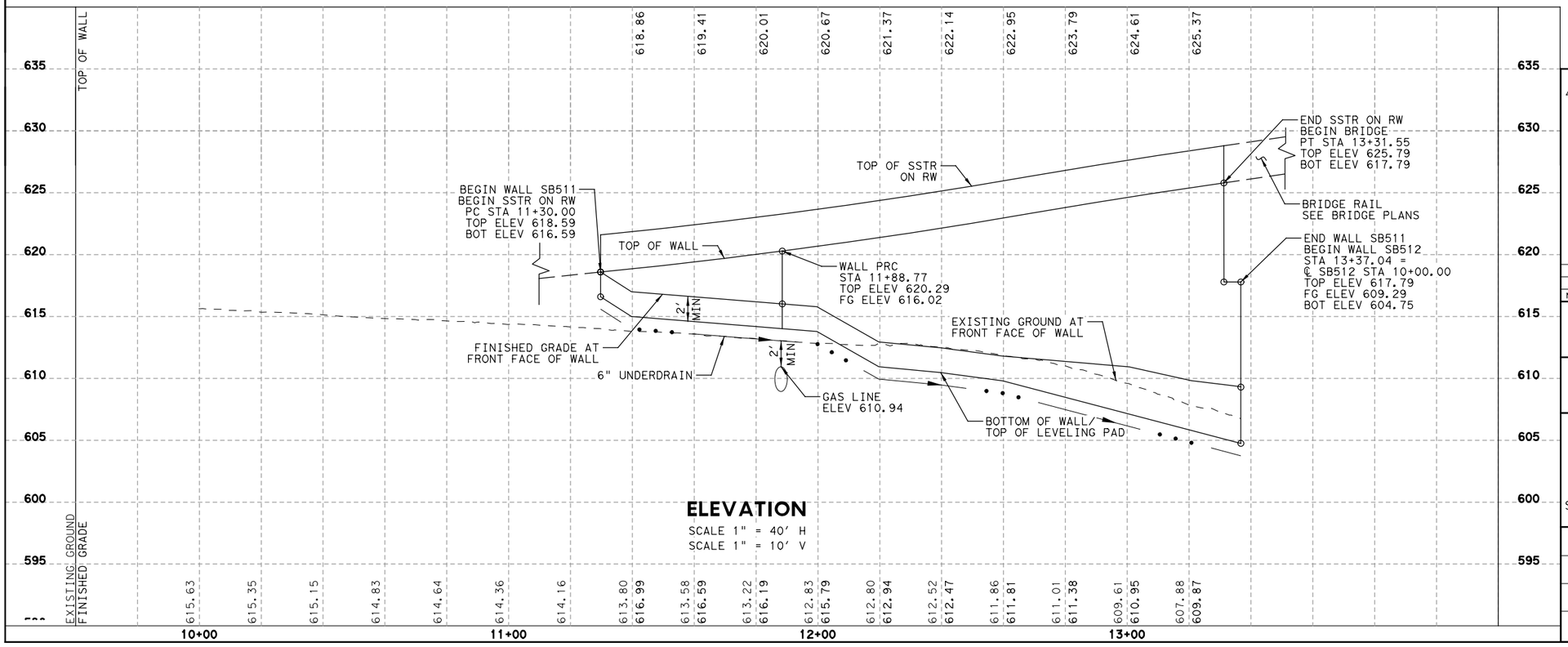
C1
PI STATION = 12+63.01
DELTA = 7° 18′ 37.79" (LT)
DEGREE OF CURVE = 4° 55′ 50.84"
TANGENT = 74.23
LENGTH = 148.26
RADIUS = 1162.00
PC STATION = 11+88.77
PT STATION = 13+37.04



PLAN

SCALE 1" = 40′

SB511 RETAINING WALL QUANTITIES			
ITEM	DESCRIPTION	UNIT	QUANTITY
423-7001	RETAINING WALL (MSE)	SF	2275
432-7013	RIPRAP (MOW STRIP)(4 IN)	CY	6
450-7024	RAIL (TY SSTR)	LF	202
556-7006	PIPE UNDERDRAINS (TY 6) (6")	LF	208
740-7005	ANTI - GRAFFITI COATING (PERMNENT-TY II)	SF	1749



ELEVATION

SCALE 1" = 40′ H
SCALE 1" = 10′ V

0 20 40 60 80
HORIZ. SCALE IN FEET
0 5 10 15 20
VERT. SCALE IN FEET

LEGEND

- PROPOSED TRAFFIC FLOW
- EXIST ROW
- PROP ROW
- PROP RETAINING WALL
- PROP TEMP SHORING WALL
- PROP PAVEMENT
- PROP BRIDGE/APPROACH SLAB
- EXIST 100 YEAR FLOODPLAIN
- PROP ROCK RIPRAP
- PROP CONCRETE RIPRAP

NOTES:
1. SEE RW(MSE)(DD)(MOD) DESIGN DATA FOR SOIL STRENGTH PARAMETERS AND EARTH REINFORCEMENT REQUIREMENTS. SEE GENERAL NOTES FOR TYPE OF FILL BEHIND MSE WALL.
2. UNLESS OTHERWISE NOTED IN THE PLANS, THE TOP OF THE LEVELING PAD IS LOCATED 2 FEET OR DEEPER BELOW THE FINISHED GRADE.
3. SURFACE AREA OF RETAINING WALL IS MEASURED FROM THE TOP OF RETAINING WALL TO THE TOP OF THE LEVELING PAD. FOOTING ADJUSTMENTS MADE IN THE FIELD ARE NOT MEASURED.
4. ◔ -DENOTES SOIL BORING LOCATION. SEE BORING LOG DATA SHEETS FOR MORE INFORMATION.
5. SEE DRAINAGE PLANS FOR MORE INFORMATION.
6. MOW STRIP SHALL BE CLASS "B" CONCRETE PER TXDOT ITEM 421. "HYDRAULIC CEMENT CONCRETE."
7. THE LOCATIONS OF EXISTING UTILITIES AND STRUCTURES SHOWN ARE BASED ON AVAILABLE SURVEY DATA. THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF ALL EXISTING UTILITIES AND STRUCTURES, AND NOTIFY ENGINEER OF ANY CONFLICTS BEFORE COMMENCING WORK.
8. SEE RW(MSE), RW(EM), RW(RI) AND RW(TRF) STANDARDS FOR ADDITIONAL DETAILS.
9. FOR OTHER DETAILS NOT SHOWN, SEE RETAINING WALL TYPICAL SECTIONS SHEET.
10. SEE TYPE SSTR/C402 RAIL FOR ADDITIONAL DETAILS.
11. CEMENT STABILIZED BACKFILL IS NOT PERMITTED.

1 REVISED 11/14/2024

11/14/2024

STATE OF TEXAS
BRIAN VERWIJST
127741
LICENSED
PROFESSIONAL ENGINEER

NO.	DATE	REVISION	APPROVED

HDR Engineering, Inc.
Firm Registration No. F-754
17111 Preston Road, Suite 300
Dallas, Texas 75248
972.960.4400

Texas Department of Transportation

SPUR 399
RETAINING WALL SB511
PLAN AND PROFILE

SCALE: 1"=40′-H
1"=10′-V

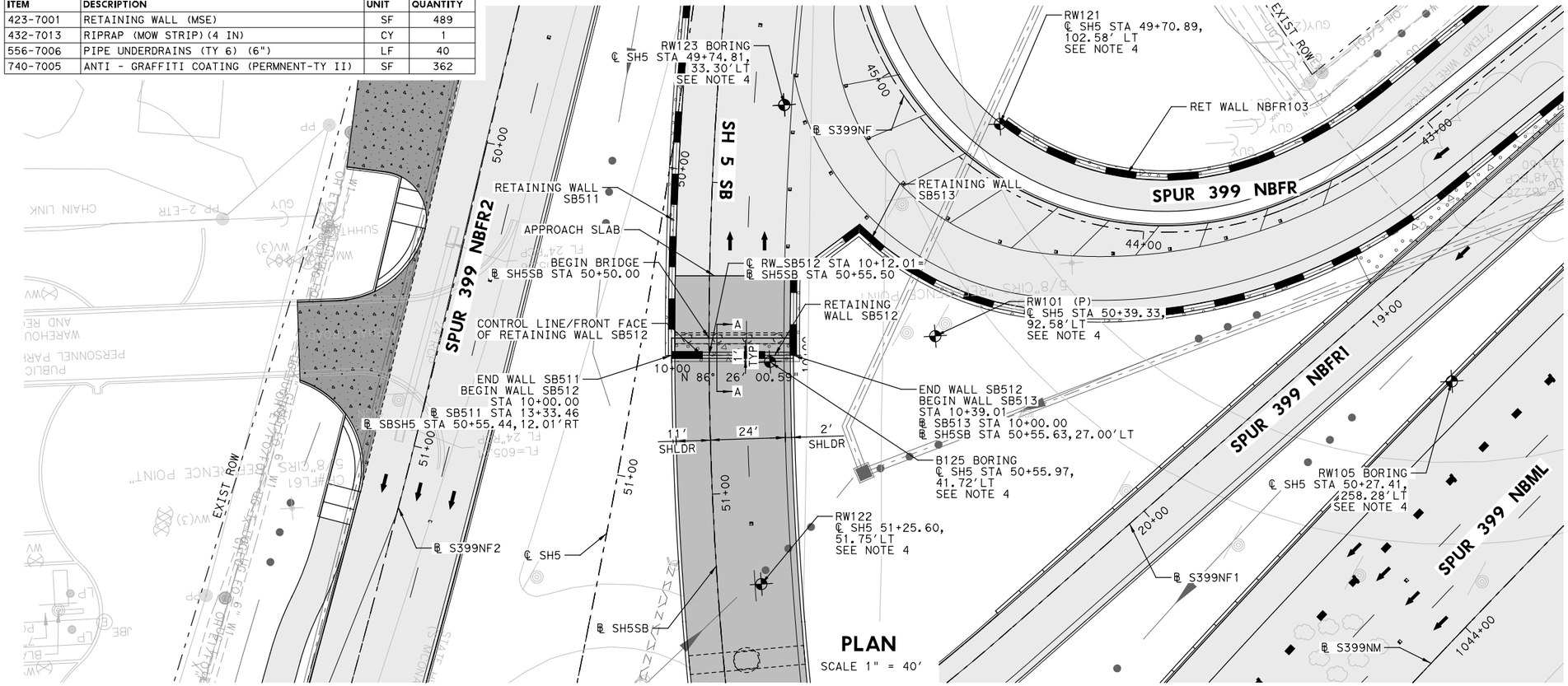
SHEET 1 OF 1

DESIGN	FED.RD. DIV.NO.	FEDERAL-AID PROJECT NO.		HIGHWAY NO.
JMD	6	SEE TITLE SHEET		SH5, ETC.
GRAPHICS AKS	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK MH	TEXAS	DAL	COLLIN	649
CHECK JMD	CONTROL	SECTION	JOB	
	0047	05	057, ETC.	

PLOT DRIVER: TXDOT_PDF_BW.pltcfg
USER: ASRINIVASA
FILE: S399WP57.dgn
DATE: 11/14/2024
TIME: 4:02:13 PM
PENTABLE: I08II5-SP399-SEG1.tbl
SCALE: 1=40

100% PLANS SUBMITTAL

SB512 RETAINING WALL QUANTITIES			
ITEM	DESCRIPTION	UNIT	QUANTITY
423-7001	RETAINING WALL (MSE)	SF	489
432-7013	RIPRAP (MOW STRIP)(4 IN)	CY	1
556-7006	PIPE UNDERDRAINS (TY 6) (6")	LF	40
740-7005	ANTI - GRAFFITI COATING (PERMNENT-TY II)	SF	362



PLAN

SCALE 1" = 40'

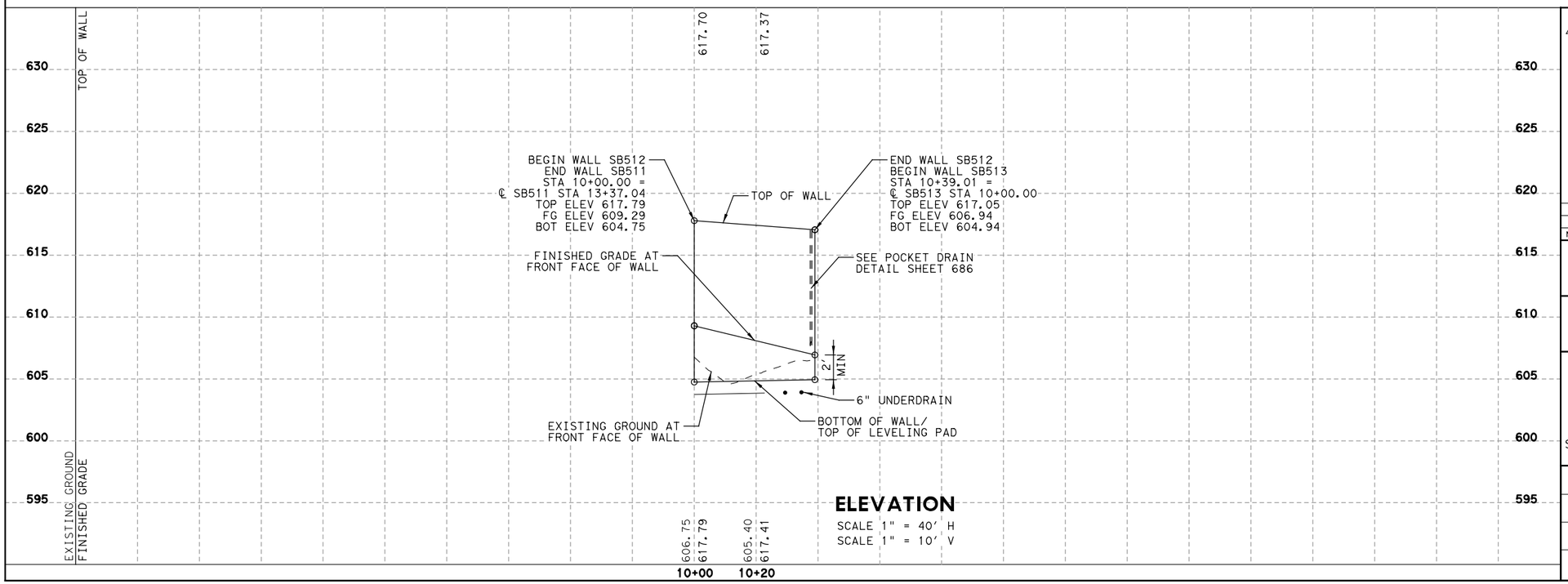
0 20 40 60 80
HORIZ. SCALE IN FEET
0 5 10 15 20
VERT. SCALE IN FEET

LEGEND

- PROPOSED TRAFFIC FLOW
- EXIST ROW
- PROP ROW
- PROP RETAINING WALL
- PROP TEMP SHORING WALL
- PROP PAVEMENT
- PROP BRIDGE/APPROACH SLAB
- EXIST 100 YEAR FLOODPLAIN
- PROP ROCK RIPRAP
- PROP CONCRETE RIPRAP

NOTES:

1. SEE RW(MSE)(DD)(MOD) DESIGN DATA FOR SOIL STRENGTH PARAMETERS AND EARTH REINFORCEMENT REQUIREMENTS. SEE GENERAL NOTES FOR TYPE OF FILL BEHIND MSE WALL.
2. UNLESS OTHERWISE NOTED IN THE PLANS, THE TOP OF THE LEVELING PAD IS LOCATED 2 FEET OR DEEPER BELOW THE FINISHED GRADE.
3. SURFACE AREA OF RETAINING WALL IS MEASURED FROM THE TOP OF RETAINING WALL TO THE TOP OF THE LEVELING PAD. FOOTING ADJUSTMENTS MADE IN THE FIELD ARE NOT MEASURED.
4. ◔ -DENOTES SOIL BORING LOCATION. SEE BORING LOG DATA SHEETS FOR MORE INFORMATION.
5. SEE DRAINAGE PLANS FOR MORE INFORMATION.
6. MOW STRIP SHALL BE CLASS "B" CONCRETE PER TXDOT ITEM 421. "HYDRAULIC CEMENT CONCRETE."
7. THE LOCATIONS OF EXISTING UTILITIES AND STRUCTURES SHOWN ARE BASED ON AVAILABLE SURVEY DATA. THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF ALL EXISTING UTILITIES AND STRUCTURES, AND NOTIFY ENGINEER OF ANY CONFLICTS BEFORE COMMENCING WORK.
8. SEE RW(MSE), RW(EM), RW(RI) AND RW(TRF) STANDARDS FOR ADDITIONAL DETAILS.
9. FOR OTHER DETAILS NOT SHOWN, SEE RETAINING WALL TYPICAL SECTIONS SHEET.
10. SEE TYPE SSTR/C402 RAIL FOR ADDITIONAL DETAILS.
11. CEMENT STABILIZED BACKFILL IS NOT PERMITTED.



ELEVATION

SCALE 1" = 40' H
SCALE 1" = 10' V

1 REVISED 11/14/2024

11/14/2024

STATE OF TEXAS
BRIAN VERWIJST
127741
LICENSED
PROFESSIONAL ENGINEER

NO.	DATE	REVISION	APPROVED

HDR Engineering, Inc.
Firm Registration No. F-754
17111 Preston Road, Suite 300
Dallas, Texas 75248
972.960.4400

SPUR 399
RETAINING WALL SB512
PLAN AND PROFILE

SCALE: 1"=40'-H
1"=10'-V

SHEET 1 OF 1

DESIGN	FED.RD. DIV.NO.	FEDERAL-AID PROJECT NO.		HIGHWAY NO.
JMD	6	SEE TITLE SHEET		SH5, ETC.
GRAPHICS AKS	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK MH	TEXAS	DAL	COLLIN	651
CHECK JMD	CONTROL	SECTION	JOB	
	0047	05	057, ETC.	

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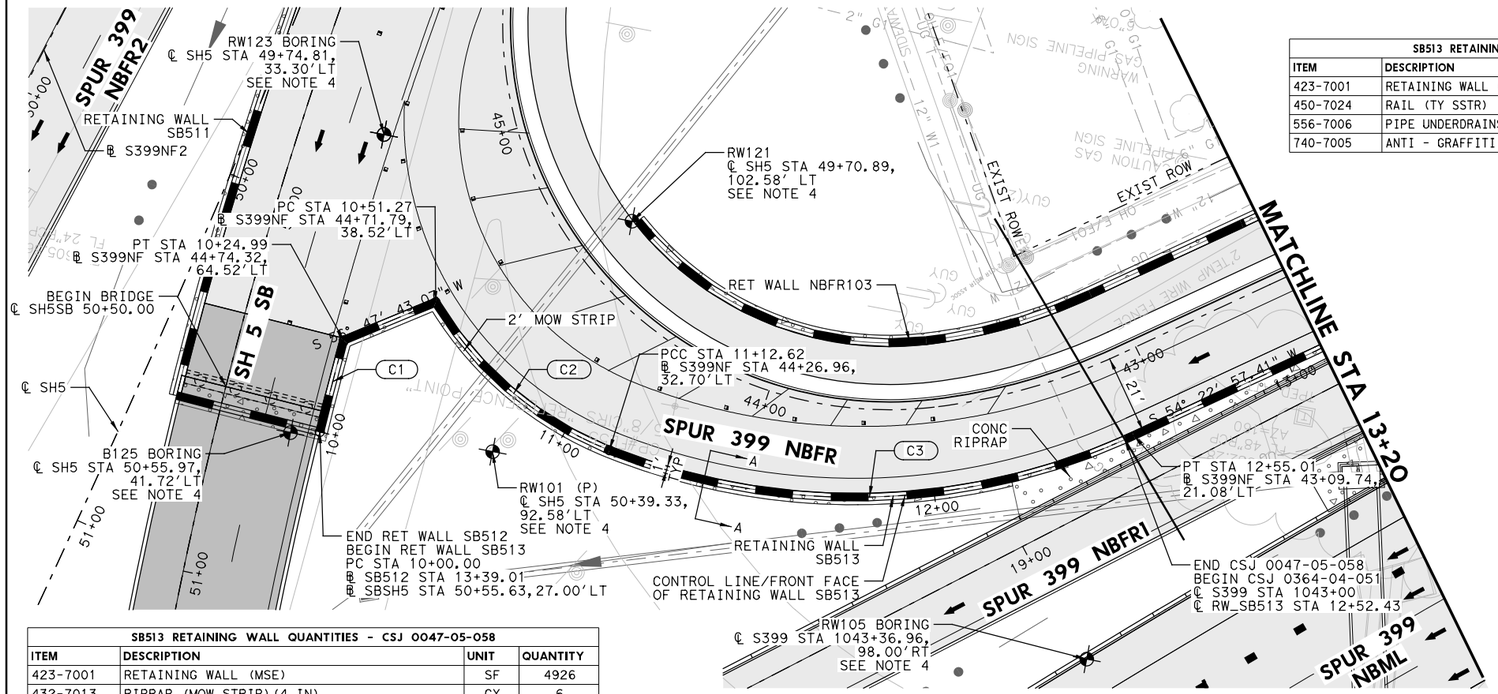
FILE: S399MP58.dgn

100% PLANS SUBMITTAL



PLAN

SCALE 1" = 40'

SB513 RETAINING WALL QUANTITIES - CSJ 0047-05-058			
ITEM	DESCRIPTION	UNIT	QUANTITY
423-7001	RETAINING WALL (MSE)	SF	4926
432-7013	RIPRAP (MOW STRIP)(4 IN)	CY	6
450-7024	RAIL (TY SSTR)	LF	247
556-7006	PIPE UNDERDRAINS (TY 6) (6")	LF	253
740-7005	ANTI - GRAFFITI COATING (PERMNENT-TY II)	SF	4411

SB513 RETAINING WALL QUANTITIES - CSJ 0364-04-051			
ITEM	DESCRIPTION	UNIT	QUANTITY
423-7001	RETAINING WALL (MSE)	SF	945
450-7024	RAIL (TY SSTR)	LF	68
556-7006	PIPE UNDERDRAINS (TY 6) (6")	LF	68
740-7005	ANTI - GRAFFITI COATING (PERMNENT-TY II)	SF	809

HORIZONTAL CURVE DATA

C1
PI STATION = 10+12.50
DELTA = 1° 16' 30.61" (RT)
DEGREE OF CURVE = 5° 06' 07.30"
TANGENT = 12.50
LENGTH = 24.99
RADIUS = 1123.00
PC STATION = 10+00.00
PT STATION = 10+24.99

HORIZONTAL CURVE DATA

C2
PI STATION = 10+83.08
DELTA = 37° 23' 37.34" (LT)
DEGREE OF CURVE = 60° 57' 10.64"
TANGENT = 31.81
LENGTH = 61.35
RADIUS = 94.00
PC STATION = 10+51.27
PT STATION = 11+12.62

HORIZONTAL CURVE DATA

C3
PI STATION = 11+88.10
DELTA = 46° 39' 43.31" (LT)
DEGREE OF CURVE = 32° 44' 25.71"
TANGENT = 75.48
LENGTH = 142.52
RADIUS = 175.00
PC STATION = 11+12.62
PT STATION = 12+55.14

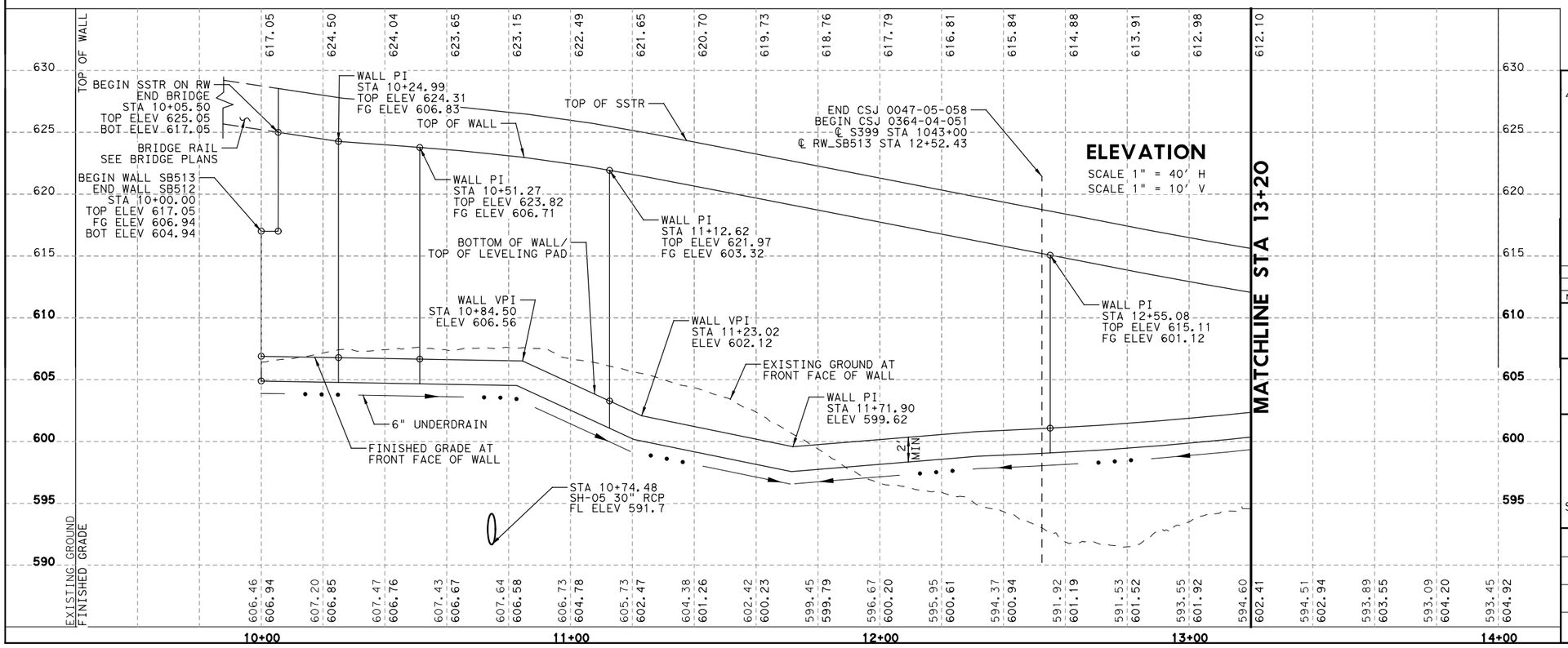
HORIZ. SCALE IN FEET: 0 20 40 60 80
VERT. SCALE IN FEET: 0 5 10 15 20

LEGEND

- PROPOSED TRAFFIC FLOW
- EXIST ROW
- PROP ROW
- PROP RETAINING WALL
- PROP TEMP SHORING WALL
- PROP PAVEMENT
- PROP BRIDGE/APPROACH SLAB
- EXIST 100 YEAR FLOODPLAIN
- PROP ROCK RIPRAP
- PROP CONCRETE RIPRAP

NOTES:

1. SEE RW(MSE)(DD)(MOD) DESIGN DATA FOR SOIL STRENGTH PARAMETERS AND EARTH REINFORCEMENT REQUIREMENTS. SEE GENERAL NOTES FOR TYPE OF FILL BEHIND MSE WALL.
2. UNLESS OTHERWISE NOTED IN THE PLANS, THE TOP OF THE LEVELING PAD IS LOCATED 2 FEET OR DEEPER BELOW THE FINISHED GRADE.
3. SURFACE AREA OF RETAINING WALL IS MEASURED FROM THE TOP OF RETAINING WALL TO THE TOP OF THE LEVELING PAD. FOOTING ADJUSTMENTS MADE IN THE FIELD ARE NOT MEASURED.
4. ◔ -DENOTES SOIL BORING LOCATION. SEE BORING LOG DATA SHEETS FOR MORE INFORMATION.
5. SEE DRAINAGE PLANS FOR MORE INFORMATION.
6. MOW STRIP SHALL BE CLASS "B" CONCRETE PER TXDOT ITEM 421. "HYDRAULIC CEMENT CONCRETE."
7. THE LOCATIONS OF EXISTING UTILITIES AND STRUCTURES SHOWN ARE BASED ON AVAILABLE SURVEY DATA. THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF ALL EXISTING UTILITIES AND STRUCTURES, AND NOTIFY ENGINEER OF ANY CONFLICTS BEFORE COMMENCING WORK.
8. SEE RW(MSE), RW(EM), RW(RI) AND RW(TRF) STANDARDS FOR ADDITIONAL DETAILS.
9. FOR OTHER DETAILS NOT SHOWN, SEE RETAINING WALL TYPICAL SECTIONS SHEET.
10. SEE TYPE SSTR/C402 RAIL FOR ADDITIONAL DETAILS.
11. CEMENT STABILIZED BACKFILL IS NOT PERMITTED.



ELEVATION

SCALE 1" = 40' H
SCALE 1" = 10' V

1 REVISED 11/14/2024

11/14/2024

STATE OF TEXAS
BRIAN VERWIJST
127741
LICENSED
PROFESSIONAL ENGINEER

NO.	DATE	REVISION	APPROVED

HDR Engineering, Inc.
Firm Registration No. F-754
17111 Preston Road, Suite 300
Dallas, Texas 75248
972.960.4400

SPUR 399
RETAINING WALL SB513
PLAN AND PROFILE
BEGIN TO STA 13+20

SCALE: 1"=40'-H
1"=10'-V

SHEET 1 OF 2

DESIGN	FED.RD. DIV.NO.	FEDERAL-AID PROJECT NO.		HIGHWAY NO.
JMD	6	SEE TITLE SHEET		SH5, ETC.
GRAPHICS AKS	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK MH	TEXAS	DAL	COLLIN	653
CHECK JMD	CONTROL	SECTION	JOB	
	0047	05	057, ETC.	

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USER: ASRINVASA
FILE: S399WP59.dgn
DATE: 11/14/2024
TIME: 4:02:13 PM
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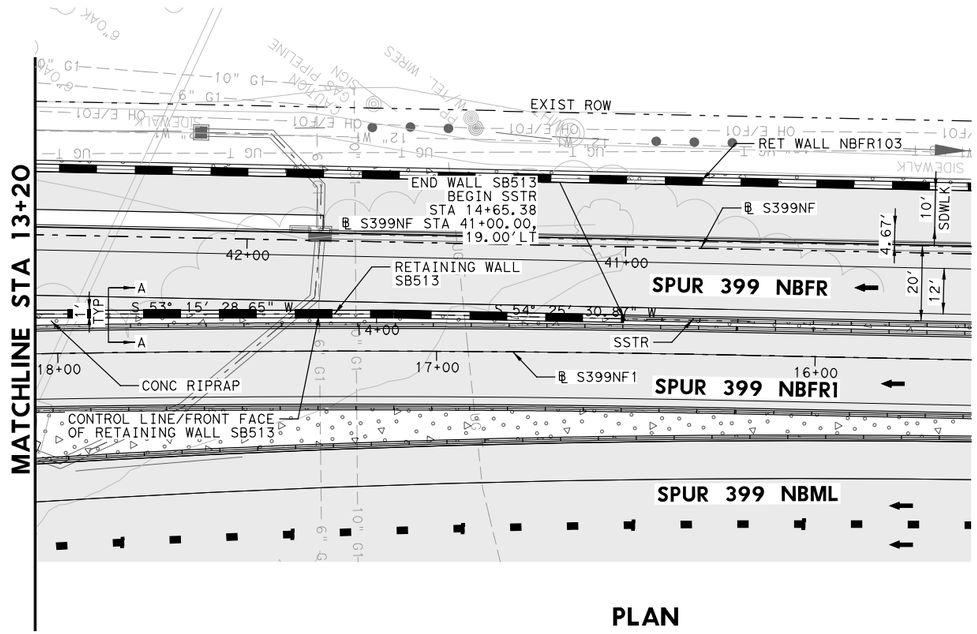
PENTABLE: 10BII5-SP399-SEG1.tbl

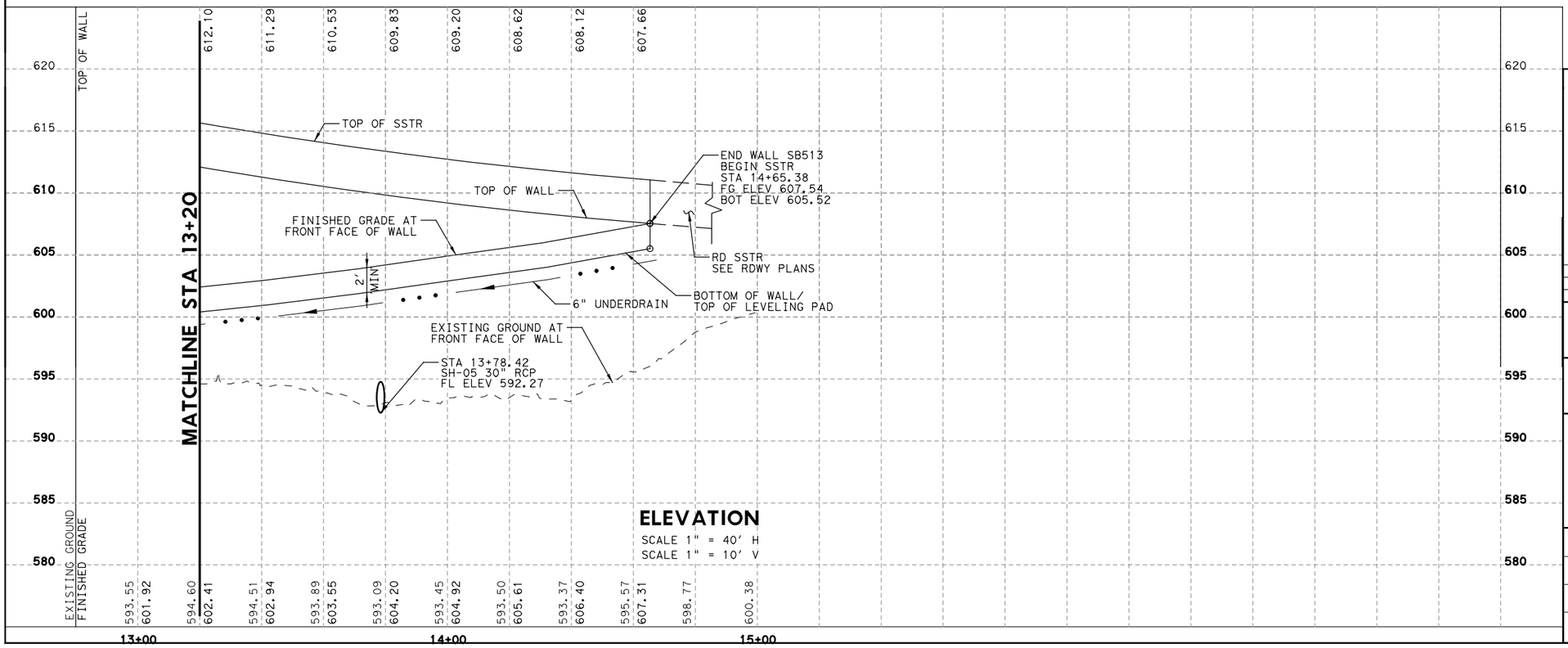
100% PLANS SUBMITTAL



PLAN

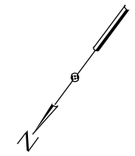
SCALE 1" = 40'

SB513 RETAINING WALL QUANTITIES			
ITEM	DESCRIPTION	UNIT	QUANTITY
423-7001	RETAINING WALL (MSE)	SF	995
450-7024	RAIL (TY SSTR)	LF	146
556-7006	PIPE UNDERDRAINS (TY 6) (6")	LF	148
740-7005	ANTI - GRAFFITI COATING (PERMNENT-TY II)	SF	701



ELEVATION

SCALE 1" = 40' H
SCALE 1" = 10' V



0 20 40 60 80
HORIZ. SCALE IN FEET
0 5 10 15 20
VERT. SCALE IN FEET

LEGEND

- PROPOSED TRAFFIC FLOW
- EXIST ROW
- PROP ROW
- PROP RETAINING WALL
- PROP TEMP SHORING WALL
- PROP PAVEMENT
- PROP BRIDGE/APPROACH SLAB
- EXIST 100 YEAR FLOODPLAIN
- PROP ROCK RIPRAP
- PROP CONCRETE RIPRAP

NOTES:

1. SEE RW(MSE)(DD)(MOD) DESIGN DATA FOR SOIL STRENGTH PARAMETERS AND EARTH REINFORCEMENT REQUIREMENTS. SEE GENERAL NOTES FOR TYPE OF FILL BEHIND MSE WALL.
2. UNLESS OTHERWISE NOTED IN THE PLANS, THE TOP OF THE LEVELING PAD IS LOCATED 2 FEET OR DEEPER BELOW THE FINISHED GRADE.
3. SURFACE AREA OF RETAINING WALL IS MEASURED FROM THE TOP OF RETAINING WALL TO THE TOP OF THE LEVELING PAD. FOOTING ADJUSTMENTS MADE IN THE FIELD ARE NOT MEASURED.
4. ◔ -DENOTES SOIL BORING LOCATION. SEE BORING LOG DATA SHEETS FOR MORE INFORMATION.
5. SEE DRAINAGE PLANS FOR MORE INFORMATION.
6. MOW STRIP SHALL BE CLASS "B" CONCRETE PER TXDOT ITEM 421. "HYDRAULIC CEMENT CONCRETE."
7. THE LOCATIONS OF EXISTING UTILITIES AND STRUCTURES SHOWN ARE BASED ON AVAILABLE SURVEY DATA. THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF ALL EXISTING UTILITIES AND STRUCTURES, AND NOTIFY ENGINEER OF ANY CONFLICTS BEFORE COMMENCING WORK.
8. SEE RW(MSE), RW(EM), RW(RI) AND RW(TRF) STANDARDS FOR ADDITIONAL DETAILS.
9. FOR OTHER DETAILS NOT SHOWN, SEE RETAINING WALL TYPICAL SECTIONS SHEET.
10. SEE TYPE SSTR/C402 RAIL FOR ADDITIONAL DETAILS.
11. CEMENT STABILIZED BACKFILL IS NOT PERMITTED.

1 REVISED 11/14/2024

11/14/2024

STATE OF TEXAS
BRIAN VERWIJST
127741
LICENSED
PROFESSIONAL ENGINEER

NO.	DATE	REVISION	APPROVED

HDR Engineering, Inc.
Firm Registration No. F-754
17111 Preston Road, Suite 300
Dallas, Texas 75248
972.960.4400

Texas Department of Transportation

SPUR 399
RETAINING WALL SB513
PLAN AND PROFILE
13+20 TO END

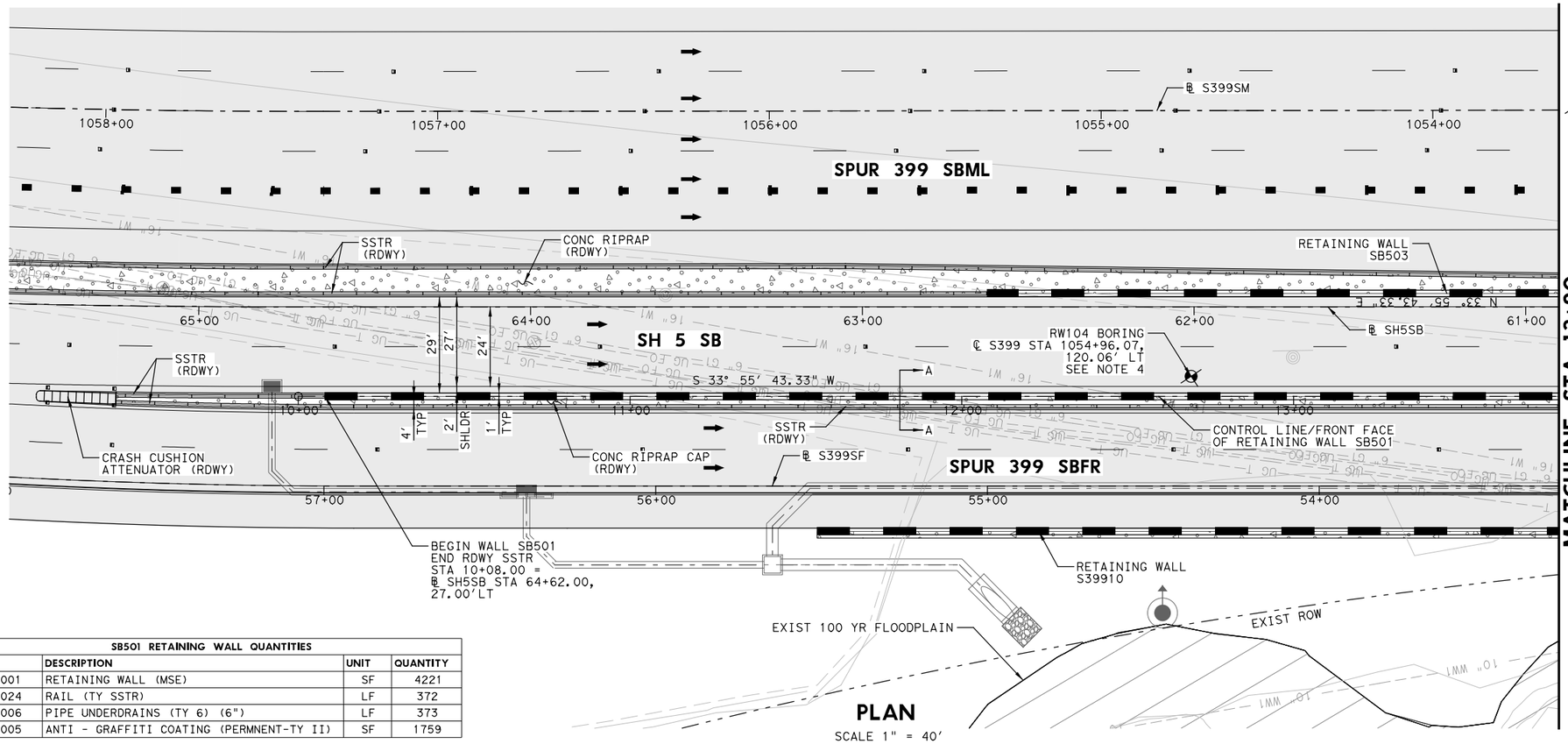
SCALE: 1"=40'-H
1"=10'-V

SHEET 2 OF 2

DESIGN	FED.RD. DIV.NO.	FEDERAL-AID PROJECT NO.		HIGHWAY NO.
JMD	6	SEE TITLE SHEET		SH5, ETC.
GRAPHICS AKS	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK MH	TEXAS	DAL	COLLIN	654
CHECK JMD	CONTROL 0047	SECTION 05	JOB 057, ETC.	

PLOT DRIVER: TXDOT_PDF_BW.pltcfg PENTABLE: I08II5-SP399-SE01.tbl
USER: ASRINIVASA DATE: II/14/2024 TIME: 4:02:13 PM SCALE: 1:40
FILE: S399WP59A.dgn

100% PLANS SUBMITTAL



PLAN

SCALE 1" = 40'

MATCHLINE STA 13+80

0 20 40 60 80
HORIZ. SCALE IN FEET
0 5 10 15 20
VERT. SCALE IN FEET

LEGEND

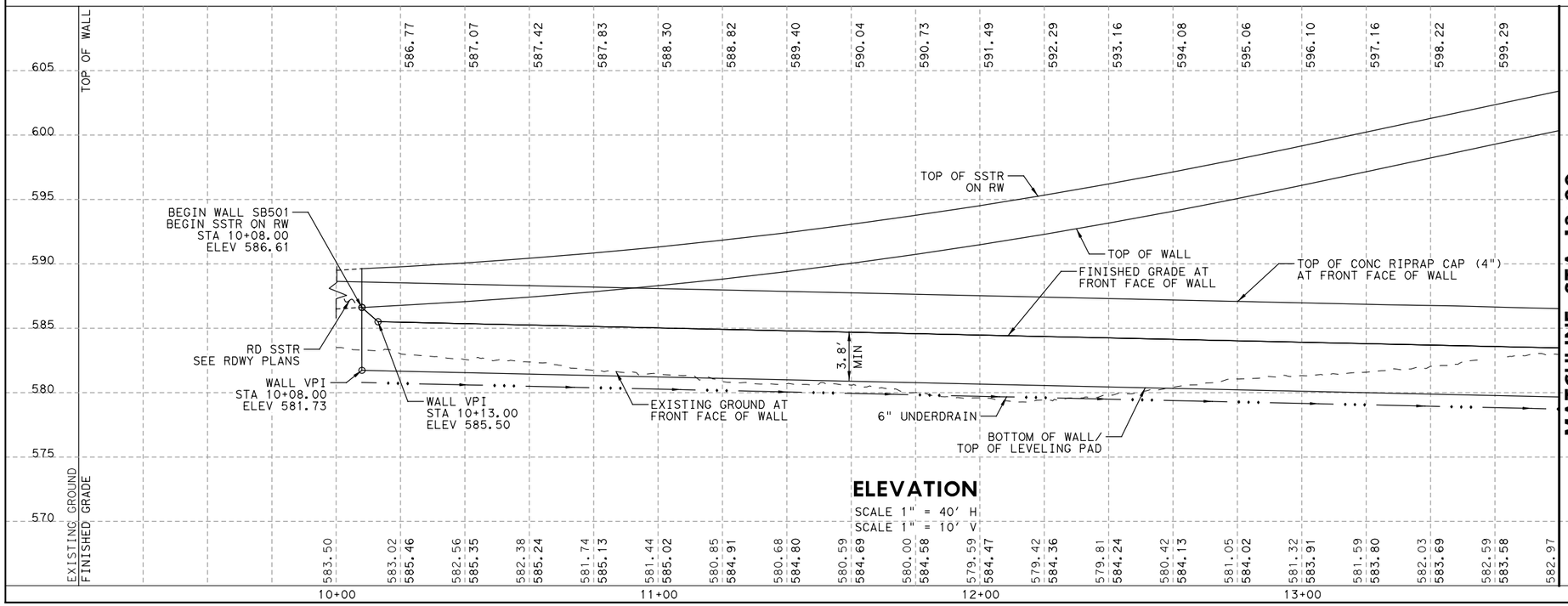
- PROPOSED TRAFFIC FLOW
- EXIST ROW
- PROP ROW
- PROP RETAINING WALL
- PROP TEMP SHORING WALL
- PROP PAVEMENT
- PROP BRIDGE/APPROACH SLAB
- EXIST 100 YEAR FLOODPLAIN
- PROP ROCK RIPRAP
- PROP CONCRETE RIPRAP

NOTES:

1. SEE RW(MSE)(DD)(MOD) DESIGN DATA FOR SOIL STRENGTH PARAMETERS AND EARTH REINFORCEMENT REQUIREMENTS. SEE GENERAL NOTES FOR TYPE OF FILL BEHIND MSE WALL.
2. UNLESS OTHERWISE NOTED IN THE PLANS, THE TOP OF THE LEVELING PAD IS LOCATED 2 FEET OR DEEPER BELOW THE FINISHED GRADE.
3. SURFACE AREA OF RETAINING WALL IS MEASURED FROM THE TOP OF RETAINING WALL TO THE TOP OF THE LEVELING PAD. FOOTING ADJUSTMENTS MADE IN THE FIELD ARE NOT MEASURED.
4. ◔ -DENOTES SOIL BORING LOCATION. SEE BORING LOG DATA SHEETS FOR MORE INFORMATION.
5. SEE DRAINAGE PLANS FOR MORE INFORMATION.
6. MOW STRIP SHALL BE CLASS "B" CONCRETE PER TXDOT ITEM 421. "HYDRAULIC CEMENT CONCRETE."
7. THE LOCATIONS OF EXISTING UTILITIES AND STRUCTURES SHOWN ARE BASED ON AVAILABLE SURVEY DATA. THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF ALL EXISTING UTILITIES AND STRUCTURES, AND NOTIFY ENGINEER OF ANY CONFLICTS BEFORE COMMENCING WORK.
8. SEE RW(MSE), RW(EM), RW(RI) AND RW(TRF) STANDARDS FOR ADDITIONAL DETAILS.
9. FOR OTHER DETAILS NOT SHOWN, SEE RETAINING WALL TYPICAL SECTIONS SHEET.
10. SEE TYPE SSTR/C402 RAIL FOR ADDITIONAL DETAILS.
11. CEMENT STABILIZED BACKFILL IS NOT PERMITTED.

SB501 RETAINING WALL QUANTITIES

ITEM	DESCRIPTION	UNIT	QUANTITY
423-7001	RETAINING WALL (MSE)	SF	4221
450-7024	RAIL (TY SSTR)	LF	372
556-7006	PIPE UNDERDRAINS (TY 6) (6")	LF	373
740-7005	ANTI - GRAFFITI COATING (PERMNENT-TY II)	SF	1759



ELEVATION

SCALE 1" = 40' H
SCALE 1" = 10' V

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TIME: 4:02:13 PM
PENTABLE: 10IBII5-SP399-SEG1.tbl
SCALE: 1:40

1 REVISED 11/14/2024

11/14/2024

STATE OF TEXAS
BRIAN VERWIJST
127741
LICENSED
PROFESSIONAL ENGINEER

NO.	DATE	REVISION	APPROVED

HDR Engineering, Inc.
Firm Registration No. F-754
17111 Preston Road, Suite 300
Dallas, Texas 75248
972.960.4400

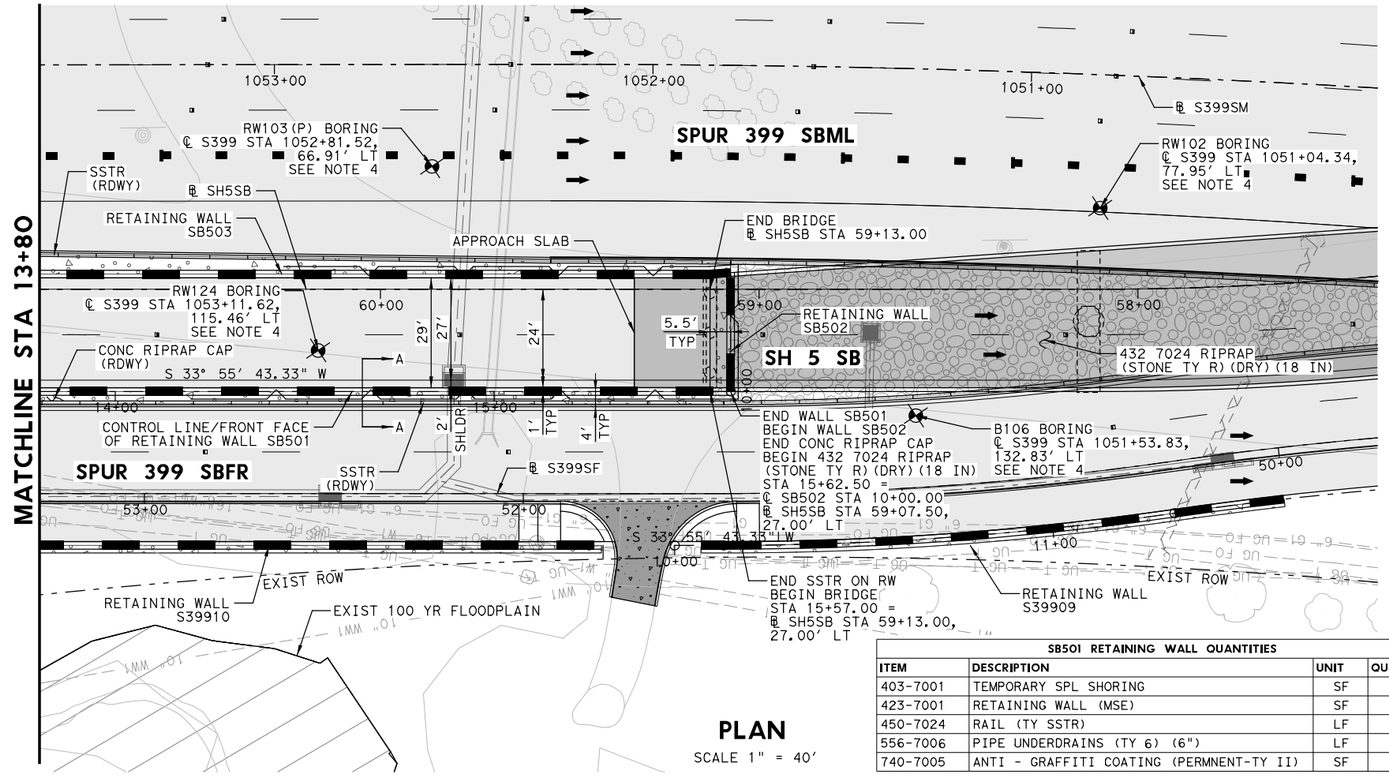
SPUR 399
RETAINING WALL SB501
PLAN AND PROFILE
BEGIN TO STA 13+80

SCALE: 1"=40'-H
1"=10'-V

SHEET 1 OF 2

DESIGN	FED.RD. DIV.NO.	FEDERAL-AID PROJECT NO.		HIGHWAY NO.
AKS	6	SEE TITLE SHEET		SH5, ETC.
GRAPHICS AKS	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK MH	TEXAS	DAL	COLLIN	656
CHECK BAV	CONTROL	SECTION	JOB	
	0047	05	057, ETC.	

100% PLANS SUBMITTAL

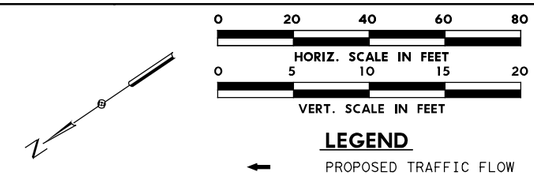


PLAN

SCALE 1" = 40'

SB501 RETAINING WALL QUANTITIES

ITEM	DESCRIPTION	UNIT	QUANTITY
403-7001	TEMPORARY SPL SHORING	SF	1128
423-7001	RETAINING WALL (MSE)	SF	4637
450-7024	RAIL (TY SSTR)	LF	177
556-7006	PIPE UNDERDRAINS (TY 6) (6")	LF	184
740-7005	ANTI - GRAFFITI COATING (PERMNENT-TY II)	SF	3405



LEGEND

- PROPOSED TRAFFIC FLOW
- EXIST ROW
- PROP ROW
- PROP RETAINING WALL
- PROP TEMP SHORING WALL
- PROP PAVEMENT
- PROP BRIDGE/APPROACH SLAB
- EXIST 100 YEAR FLOODPLAIN
- PROP ROCK RIPRAP
- PROP CONCRETE RIPRAP

NOTES:

1. SEE RW(MSE)(DD)(MOD) DESIGN DATA FOR SOIL STRENGTH PARAMETERS AND EARTH REINFORCEMENT REQUIREMENTS. SEE GENERAL NOTES FOR TYPE OF FILL BEHIND MSE WALL.
2. UNLESS OTHERWISE NOTED IN THE PLANS, THE TOP OF THE LEVELING PAD IS LOCATED 2 FEET OR DEEPER BELOW THE FINISHED GRADE.
3. SURFACE AREA OF RETAINING WALL IS MEASURED FROM THE TOP OF RETAINING WALL TO THE TOP OF THE LEVELING PAD. FOOTING ADJUSTMENTS MADE IN THE FIELD ARE NOT MEASURED.
4. ◔ -DENOTES SOIL BORING LOCATION. SEE BORING LOG DATA SHEETS FOR MORE INFORMATION.
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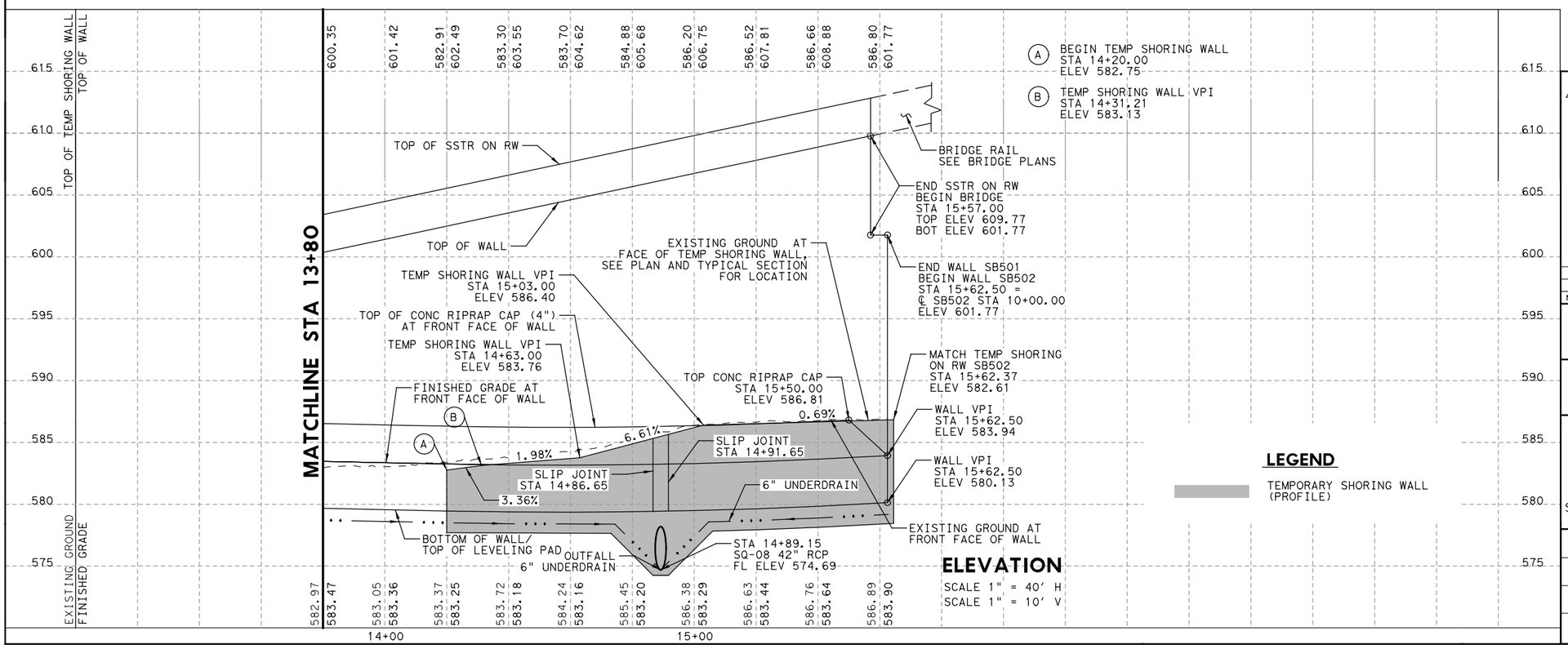
9. FOR OTHER DETAILS NOT SHOWN, SEE RETAINING WALL TYPICAL SECTIONS SHEET.
10. SEE TYPE SSTR/C402 RAIL FOR ADDITIONAL DETAILS.
11. CEMENT STABILIZED BACKFILL IS NOT PERMITTED.



ELEVATION

SCALE 1" = 40' H
SCALE 1" = 10' V

LEGEND

TEMPORARY SHORING WALL (PROFILE)

1 REVISED 11/14/2024

11/14/2024

STATE OF TEXAS
BRIAN VERWIJST
127741
LICENSED PROFESSIONAL ENGINEER

NO.	DATE	REVISION	APPROVED

HDR Engineering, Inc.
Firm Registration No. F-754
17111 Preston Road, Suite 300
Dallas, Texas 75248
972.960.4400

SPUR 399
RETAINING WALL SB501
PLAN AND PROFILE
STA 13+80 TO END

SCALE: 1"=40'-H
1"=10'-V

SHEET 2 OF 2

DESIGN	FED.RD. DIV.NO.	FEDERAL-AID PROJECT NO.		HIGHWAY NO.
AKS	6	SEE TITLE SHEET		SH5, ETC.
GRAPHICS AKS	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK MH	TEXAS	DAL	COLLIN	657
CHECK JMD	CONTROL	SECTION	JOB	
	0047	05	057, ETC.	

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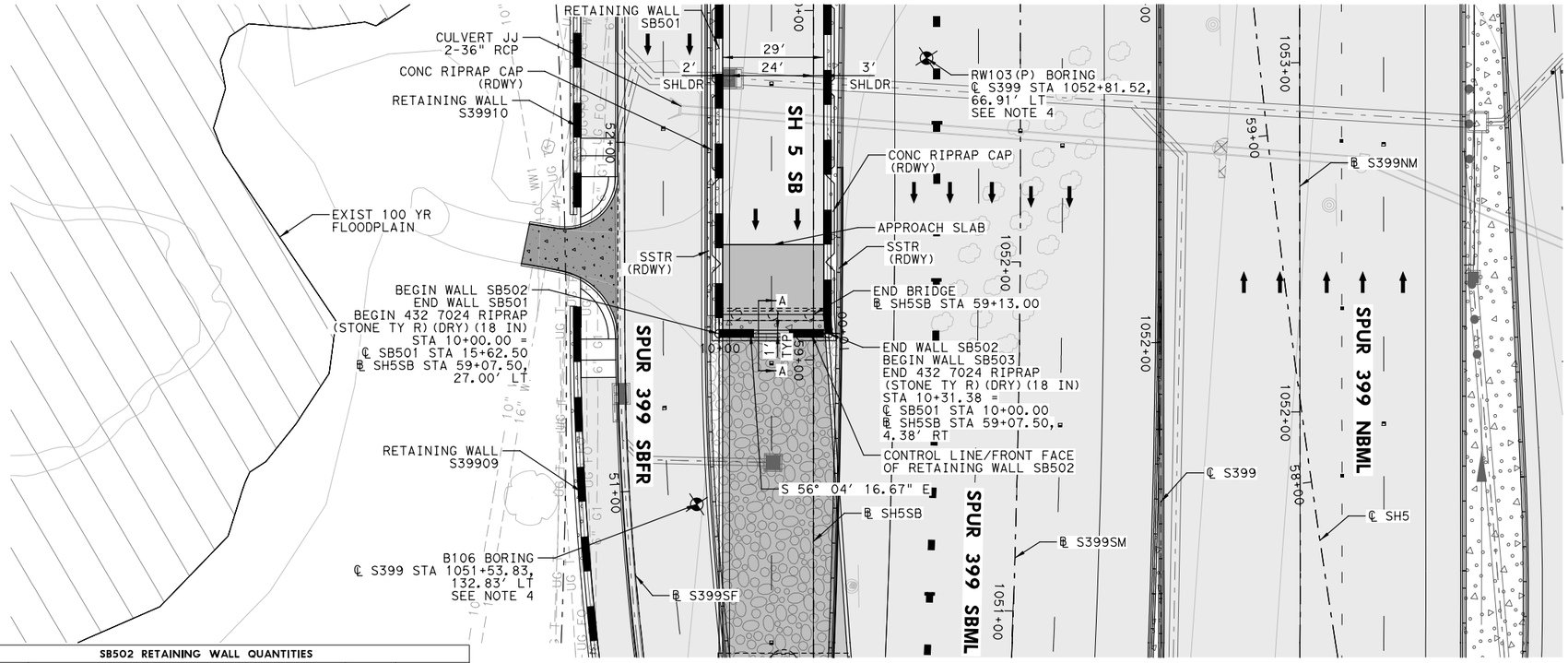
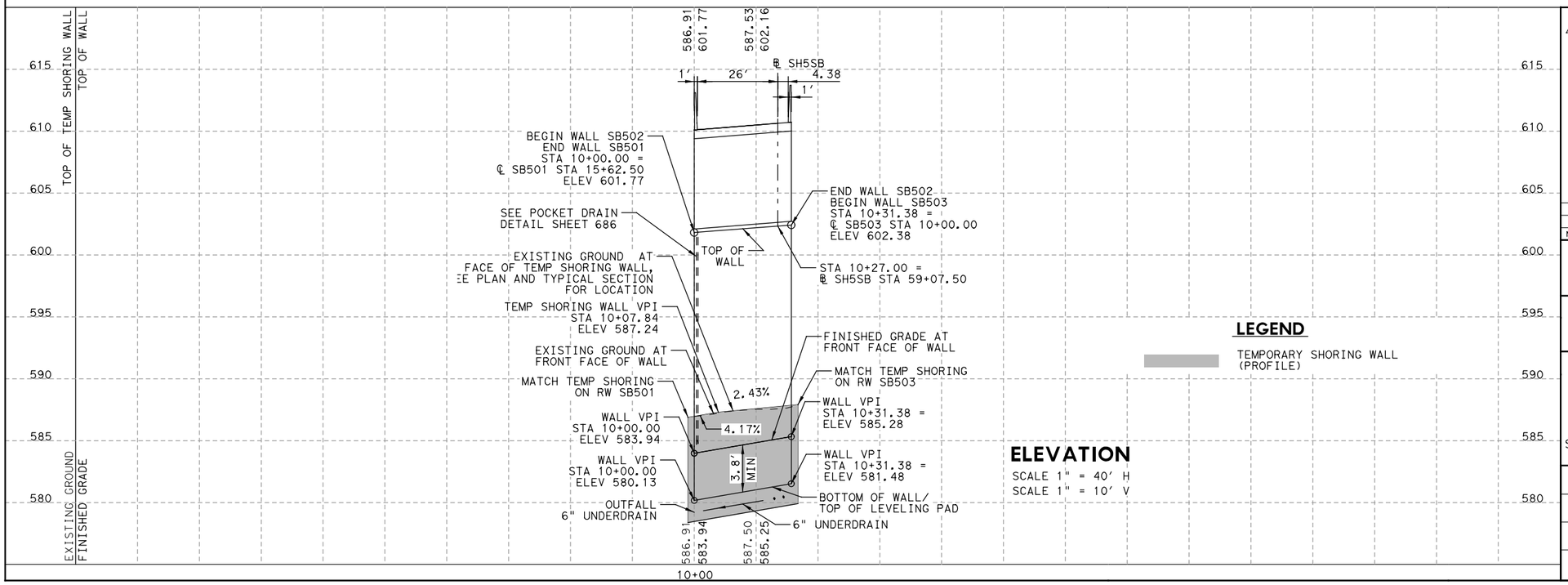
100% PLANS SUBMITTAL



PLAN

SCALE 1" = 40′

SB502 RETAINING WALL QUANTITIES			
ITEM	DESCRIPTION	UNIT	QUANTITY
403-7001	TEMPORARY SPL SHORING	SF	295
423-7001	RETAINING WALL (MSE)	SF	667
556-7006	PIPE UNDERDRAINS (TY 6) (6")	LF	32
740-7005	ANTI - GRAFFITI COATING (PERMNENT-TY II)	SF	549



ELEVATION

SCALE 1" = 40′ H
SCALE 1" = 10′ V

LEGEND

TEMPORARY SHORING WALL (PROFILE)

0 20 40 60 80
HORIZ. SCALE IN FEET
0 5 10 15 20
VERT. SCALE IN FEET

LEGEND

- PROPOSED TRAFFIC FLOW
- EXIST ROW
- PROP ROW
- PROP RETAINING WALL
- PROP TEMP SHORING WALL
- PROP PAVEMENT
- PROP BRIDGE/APPROACH SLAB
- EXIST 100 YEAR FLOODPLAIN
- PROP ROCK RIPRAP
- PROP CONCRETE RIPRAP

NOTES:

1. SEE RW(MSE)(DD)(MOD) DESIGN DATA FOR SOIL STRENGTH PARAMETERS AND EARTH REINFORCEMENT REQUIREMENTS. SEE GENERAL NOTES FOR TYPE OF FILL BEHIND MSE WALL.
2. UNLESS OTHERWISE NOTED IN THE PLANS, THE TOP OF THE LEVELING PAD IS LOCATED 2 FEET OR DEEPER BELOW THE FINISHED GRADE.
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8. SEE RW(MSE), RW(EM), RW(RI) AND RW(TRF) STANDARDS FOR ADDITIONAL DETAILS.
9. FOR OTHER DETAILS NOT SHOWN, SEE RETAINING WALL TYPICAL SECTIONS SHEET.
10. SEE TYPE SSTR/C402 RAIL FOR ADDITIONAL DETAILS.
11. CEMENT STABILIZED BACKFILL IS NOT PERMITTED.

1 REVISED 11/14/2024

11/14/2024

STATE OF TEXAS
BRIAN VERWIJST
127741
LICENSED PROFESSIONAL ENGINEER

NO.	DATE	REVISION	APPROVED

HDR Engineering, Inc.
Firm Registration No. F-754
17111 Preston Road, Suite 300
Dallas, Texas 75248
972.960.4400

SPUR 399
RETAINING WALL SB502
PLAN AND PROFILE

SCALE: 1"=40′-H
1"=10′-V

SHEET 1 OF 1

DESIGN	FED.RD. DIV.NO.	FEDERAL-AID PROJECT NO.		HIGHWAY NO.
AKS	6	SEE TITLE SHEET		SH5, ETC.
GRAPHICS AKS	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK MH	TEXAS	DAL	COLLIN	659
CHECK JMD	CONTROL	SECTION	JOB	
	0047	05	057, ETC.	

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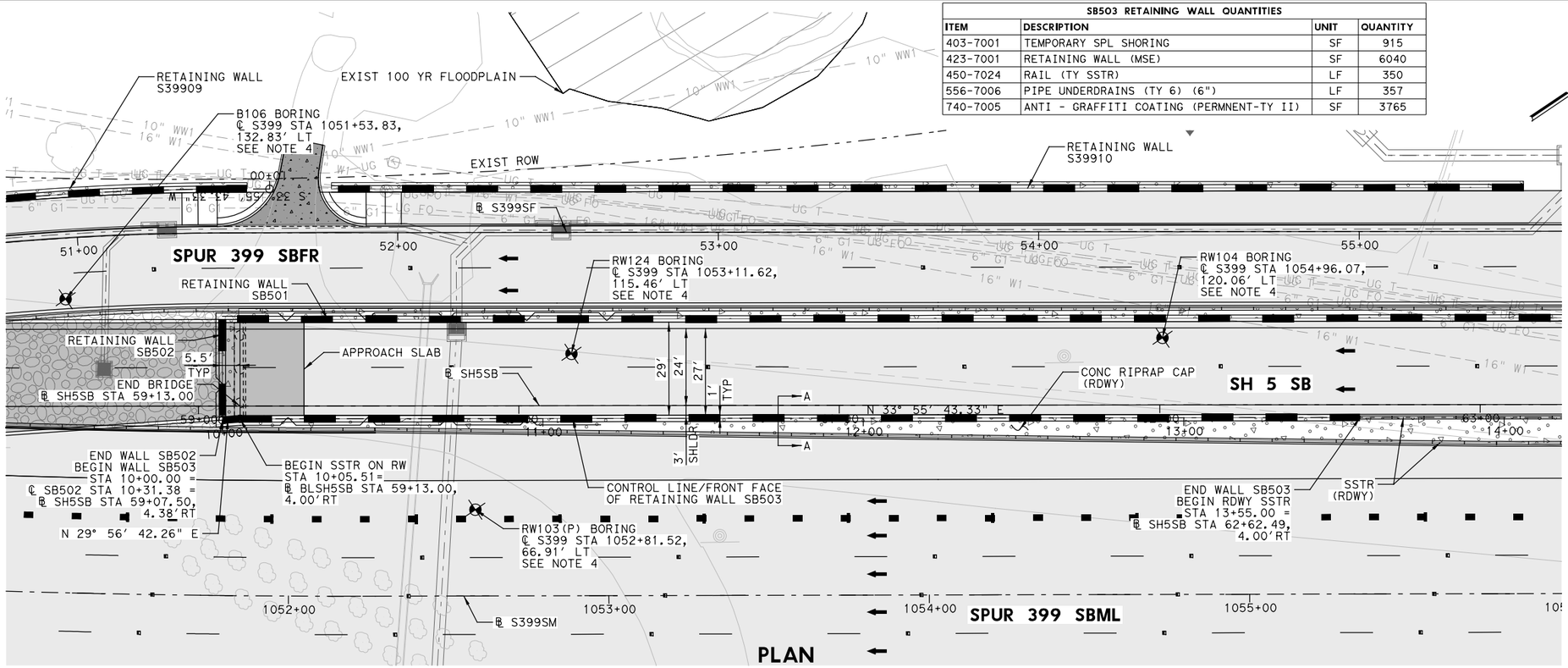
100% PLANS SUBMITTAL

SB503 RETAINING WALL QUANTITIES			
ITEM	DESCRIPTION	UNIT	QUANTITY
403-7001	TEMPORARY SPL SHORING	SF	915
423-7001	RETAINING WALL (MSE)	SF	6040
450-7024	RAIL (TY SSTR)	LF	350
556-7006	PIPE UNDERDRAINS (TY 6) (6")	LF	357
740-7005	ANTI - GRAFFITI COATING (PERMNENT-TY II)	SF	3765



PLAN

SCALE 1" = 40'

0 20 40 60 80
HORIZ. SCALE IN FEET
0 5 10 15 20
VERT. SCALE IN FEET

LEGEND

- PROPOSED TRAFFIC FLOW
- EXIST ROW
- PROP ROW
- PROP RETAINING WALL
- PROP TEMP SHORING WALL
- PROP PAVEMENT
- PROP BRIDGE/APPROACH SLAB
- EXIST 100 YEAR FLOODPLAIN
- PROP ROCK RIPRAP
- PROP CONCRETE RIPRAP

NOTES:

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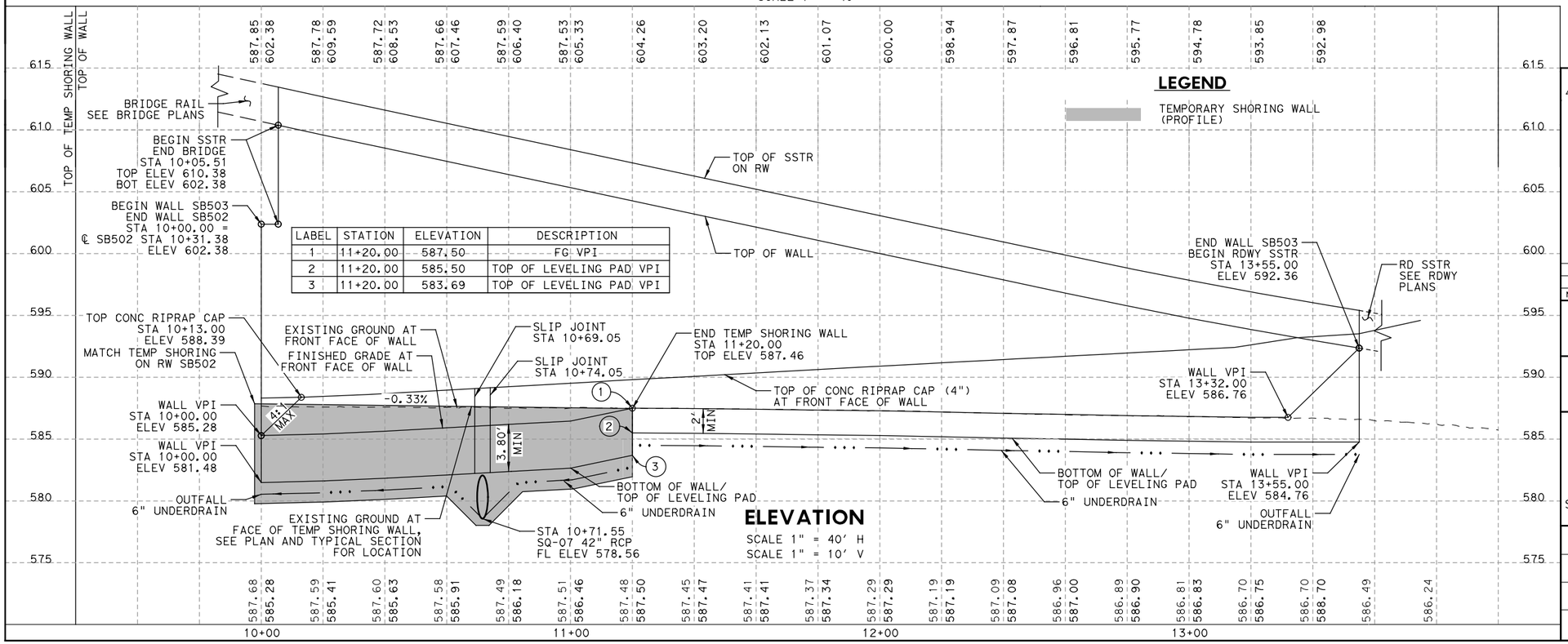
11. CEMENT STABILIZED BACKFILL IS NOT PERMITTED.



LABEL	STATION	ELEVATION	DESCRIPTION
1	11+20.00	587.50	FG VPI
2	11+20.00	585.50	TOP OF LEVELING PAD VPI
3	11+20.00	583.69	TOP OF LEVELING PAD VPI

LEGEND

TEMPORARY SHORING WALL (PROFILE)

ELEVATION

SCALE 1" = 40' H
SCALE 1" = 10' V

1 REVISED 11/14/2024

11/14/2024

STATE OF TEXAS · BRIAN VERWIJST · 127741 · LICENSED PROFESSIONAL ENGINEER

NO.	DATE	REVISION	APPROVED

HDR Engineering, Inc.
Firm Registration No. F-754
17111 Preston Road, Suite 300
Dallas, Texas 75248
972.960.4400

SPUR 399 RETAINING WALL SB503 PLAN AND PROFILE

SCALE: 1"=40'-H
1"=10'-V

SHEET 1 OF 1

DESIGN	FED.RD. DIV.NO.	FEDERAL-AID PROJECT NO.		HIGHWAY NO.
AKS	6	SEE TITLE SHEET		SH5, ETC.
GRAPHICS AKS	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK MH	TEXAS	DAL	COLLIN	661
CHECK JMD	CONTROL	SECTION	JOB	
	0047	05	057, ETC.	

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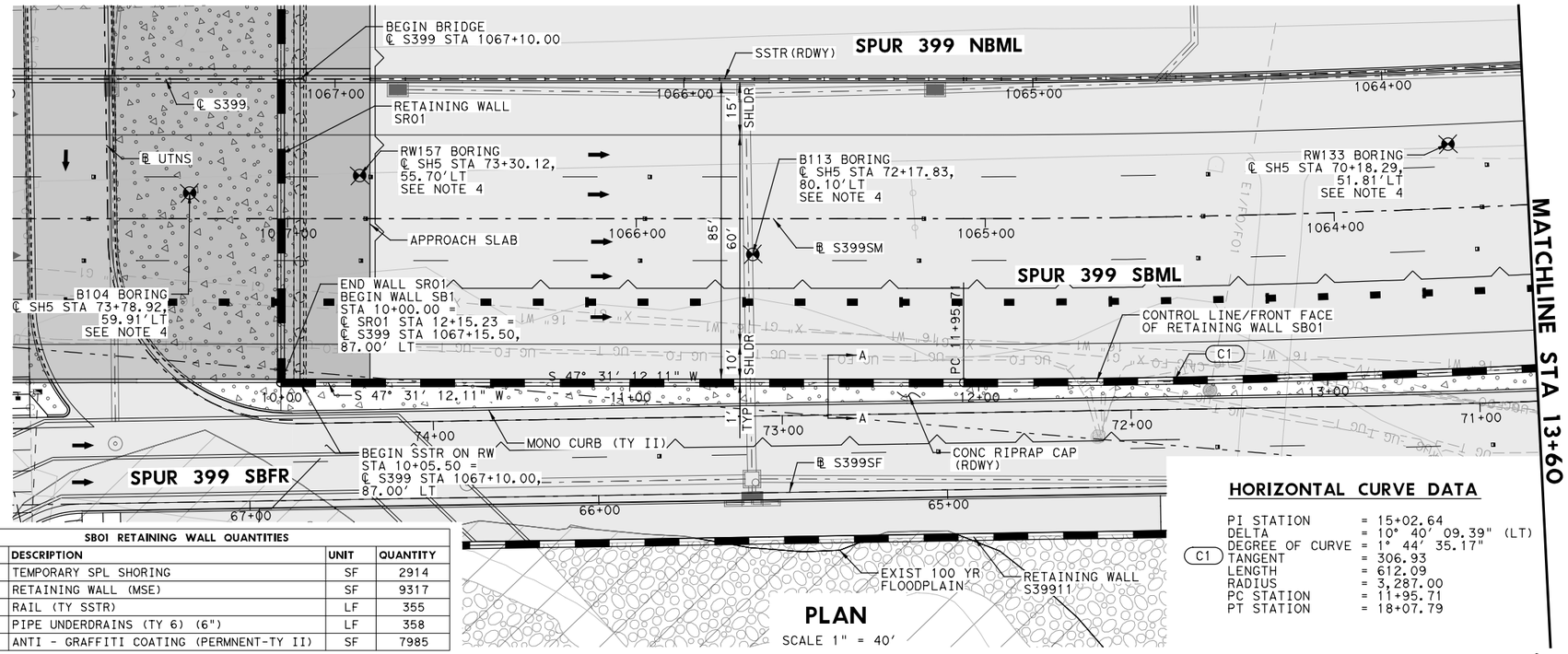
FINAL PLANS SUBMITTAL



PLAN
SCALE 1" = 40'

SB01 RETAINING WALL QUANTITIES			
ITEM	DESCRIPTION	UNIT	QUANTITY
403-7001	TEMPORARY SPL SHORING	SF	2914
423-7001	RETAINING WALL (MSE)	SF	9317
450-7024	RAIL (TY SSTR)	LF	355
556-7006	PIPE UNDERDRAINS (TY 6) (6")	LF	358
740-7005	ANTI - GRAFFITI COATING (PERMNENT-TY II)	SF	7985

HORIZONTAL CURVE DATA

C1
- PI STATION = 15+02.64
- DELTA = 10° 40' 09.39" (LT)
- DEGREE OF CURVE = 1° 44' 35.17"
- TANGENT = 306.93
- LENGTH = 612.09
- RADIUS = 3,287.00
- PC STATION = 11+95.71
- PT STATION = 18+07.79

0 20 40 60 80
HORIZ. SCALE IN FEET
0 5 10 15 20
VERT. SCALE IN FEET

LEGEND
- PROPOSED TRAFFIC FLOW
- EXIST ROW
- PROP ROW
- PROP RETAINING WALL
- PROP TEMP SHORING WALL
- PROP PAVEMENT
- PROP BRIDGE/APPROACH SLAB
- EXIST 100 YEAR FLOODPLAIN
- PROP ROCK RIPRAP
- PROP CONCRETE RIPRAP

NOTES:
1. SEE RW(MSE)(DD)(MOD) DESIGN DATA FOR SOIL STRENGTH PARAMETERS AND EARTH REINFORCEMENT REQUIREMENTS. SEE GENERAL NOTES FOR TYPE OF FILL BEHIND MSE WALL.
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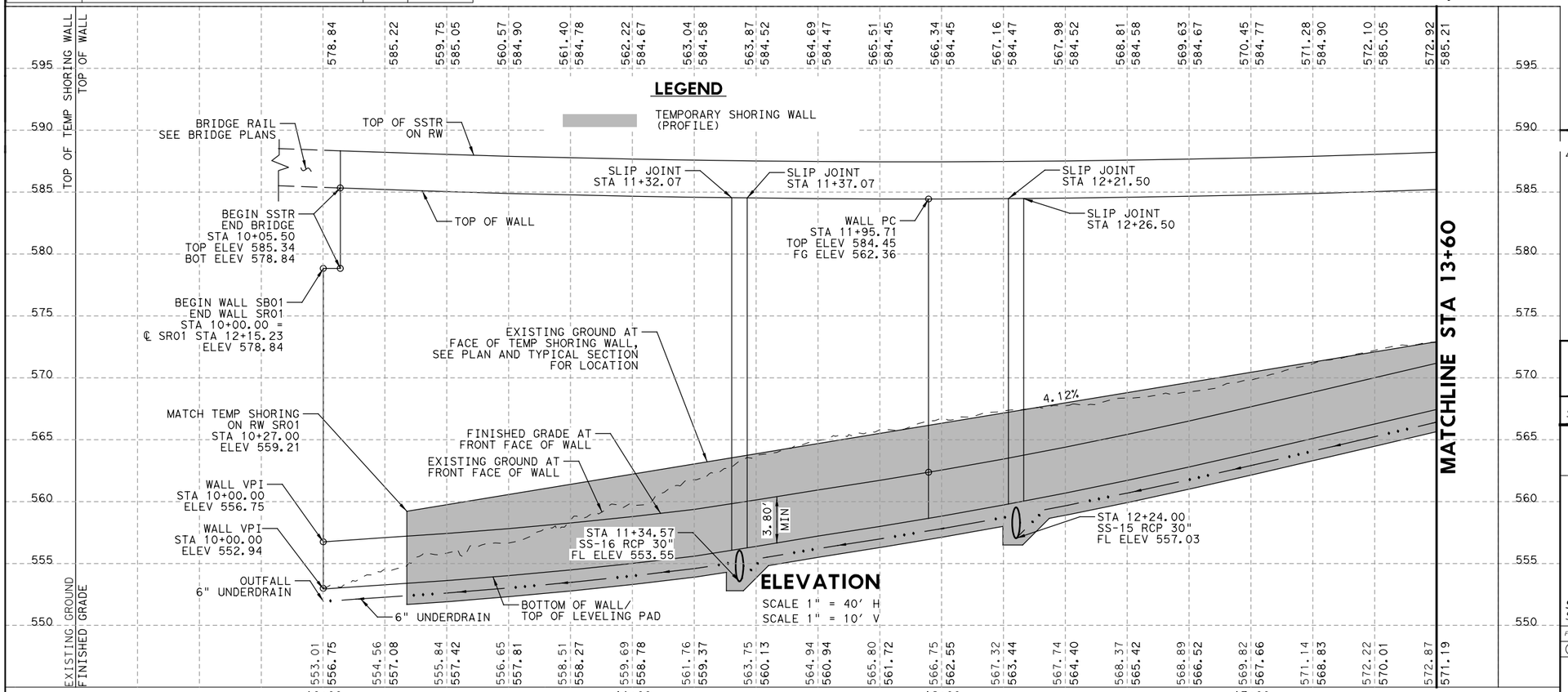
11. CEMENT STABILIZED BACKFILL IS NOT PERMITTED.



ELEVATION
SCALE 1" = 40' H
SCALE 1" = 10' V

1 REVISED 11/14/2024

11/14/2024

STATE OF TEXAS
BRIAN VERWIJST
127741
LICENSED
PROFESSIONAL ENGINEER

HDR Engineering, Inc.
Firm Registration No. F-754
17111 Preston Road, Suite 300
Dallas, Texas 75248
972.960.4400

Sheet 1 of 2 Sheets

Texas Department of Transportation
Dallas District Bridge

SPUR 399
RETAINING WALL SB01
PLAN AND PROFILE
BEGIN TO STA 13+60

SCALE:1"=40'-H
SCALE:1"=10'-V

FILE: S399WP50.dgn	DN: AKS	CK: MH	DW: AKS	CK: JMD
©TxDOT 2024	CONT	SECT	JOB	HIGHWAY
REVISIONS	0047	05	057, ETC.	SH5, ETC.
	DIST	COUNTY		SHEET NO.
	DAL	COLLIN		663

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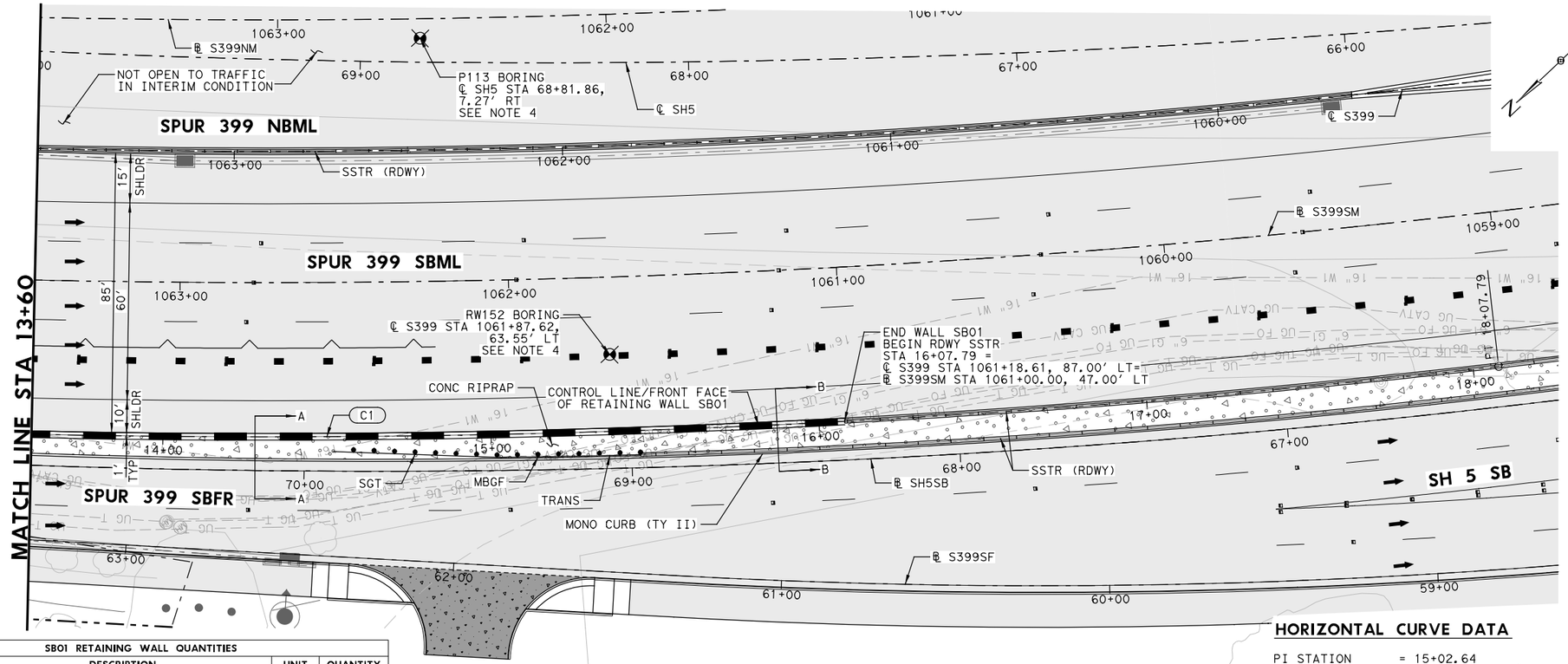
FINAL PLANS SUBMITTAL



PLAN

SCALE 1" = 40'

SB01 RETAINING WALL QUANTITIES			
ITEM	DESCRIPTION	UNIT	QUANTITY
403-7001	TEMPORARY SPL SHORING	SF	763
423-7001	RETAINING WALL (MSE)	SF	2988
450-7024	RAIL (TY SSTR)	LF	248
556-7006	PIPE UNDERDRAINS (TY 6) (6")	LF	249
740-7005	ANTI - GRAFFITI COATING (PERMNENT-TY II)	SF	1930

HORIZONTAL CURVE DATA

C1

PI STATION	= 15+02.64
DELTA	= 10° 40' 09.39" (LT)
DEGREE OF CURVE	= 1° 44' 35.17"
TANGENT	= 306.93
LENGTH	= 612.09
RADIUS	= 3,287.00
PC STATION	= 11+95.71
PT STATION	= 18+07.79

HORIZ. SCALE IN FEET: 0 20 40 60 80

VERT. SCALE IN FEET: 0 5 10 15 20

LEGEND

- PROPOSED TRAFFIC FLOW
- EXIST ROW
- PROP ROW
- PROP RETAINING WALL
- PROP TEMP SHORING WALL
- PROP PAVEMENT
- PROP BRIDGE/APPROACH SLAB
- EXIST 100 YEAR FLOODPLAIN
- PROP ROCK RIPRAP
- PROP CONCRETE RIPRAP

NOTES:

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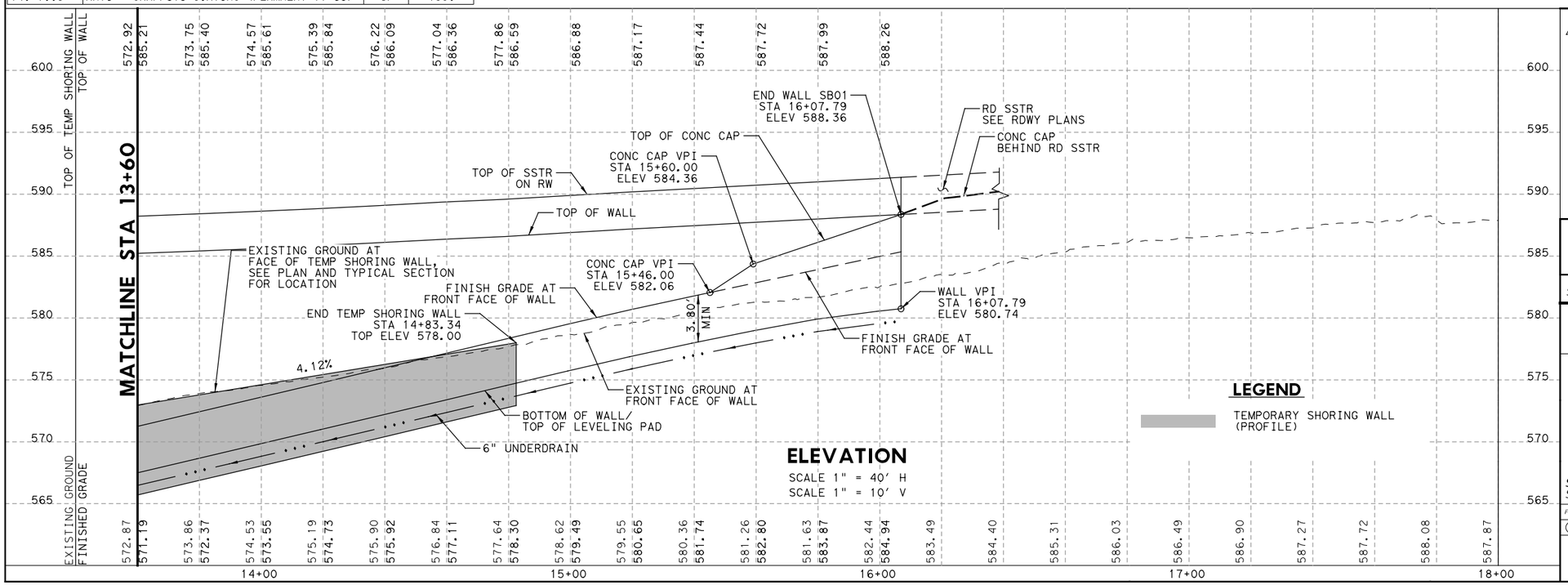

ELEVATION

SCALE 1" = 40' H
SCALE 1" = 10' V

LEGEND

TEMPORARY SHORING WALL (PROFILE)

1 REVISED 11/14/2024

11/14/2024

STATE OF TEXAS
BRIAN VERWIJST
127741
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PROFESSIONAL ENGINEER

HDR Engineering, Inc.
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972.960.4400

Sheet 2 of 2 Sheets

Texas Department of Transportation

Dallas District Bridge

SPUR 399
RETAINING WALL SB01
PLAN AND PROFILE
STA 13+60 TO END

SCALE:1"=40'-H
SCALE:1"=10'-V

FILE: S399WP51.dgn	DN: AKS	CK: MH	DW: AKS	CK: JMD
©TxDOT 2024	CONT	SECT	JOB	HIGHWAY
REVISIONS	0047	05	057, ETC.	SH5, ETC.
	DIST	COUNTY		SHEET NO.
	DAL	COLLIN		664

PLOT DRVER: TXDOT_PDF_BW.pltcfg DATE: 11/14/2024
USER: ASRINVASA TIME: 4:02:13 PM
FILE: S399WP51.dgn PENTABLE: 10I0I15-SP399-SEG1.tbl

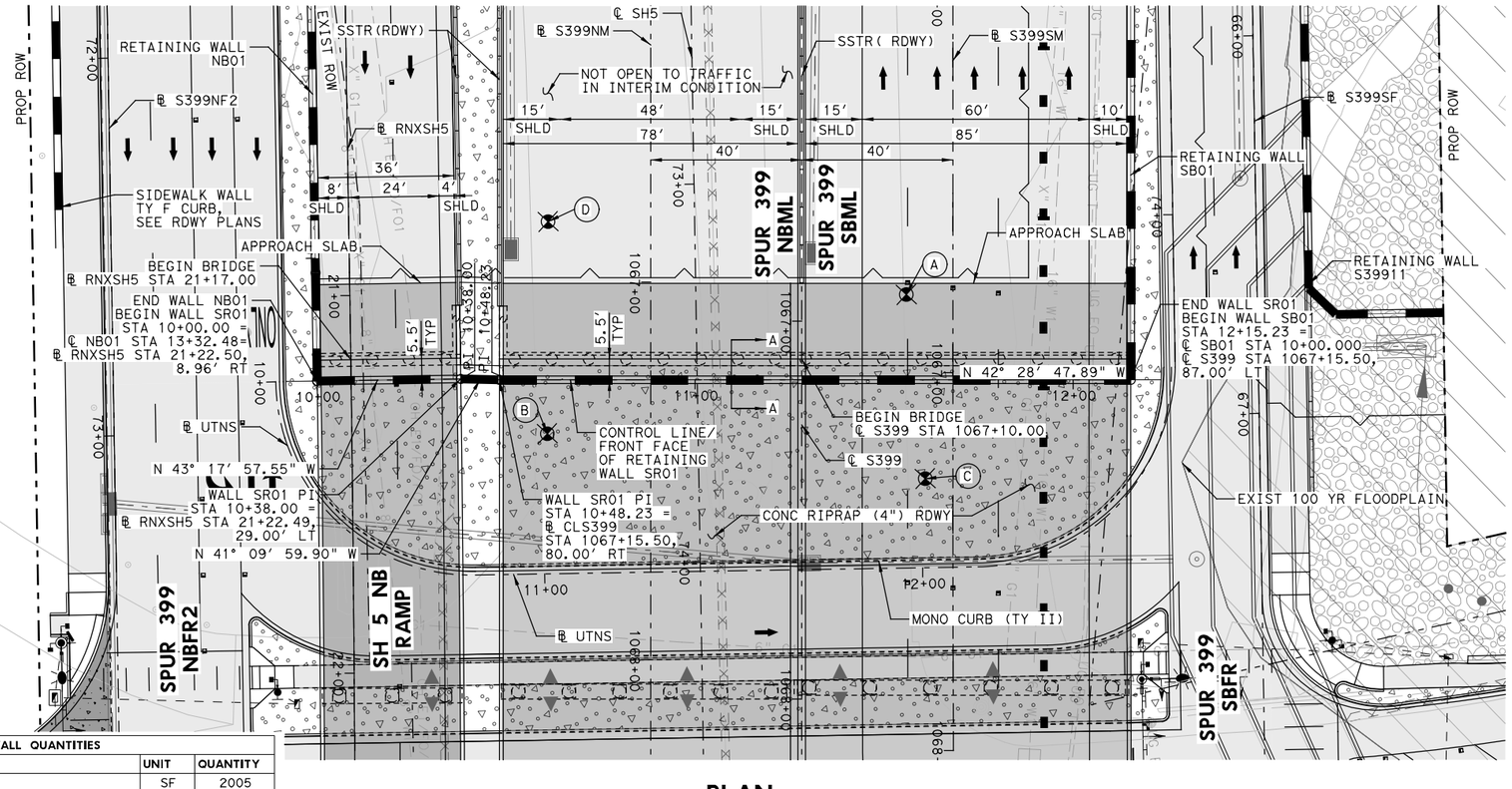
FINAL PLANS SUBMITTAL

(A) RW157 BORING
℄ SH5 STA 73+30.12,
55.70′ LT
SEE NOTE 4

(B) P-BTX001-A BORING
℄ SH5 STA 73+65.40,
39.90′RT
SEE NOTE 4

(C) B104 BORING
℄ SH5 STA 73+78.92,
59.91′LT
SEE NOTE 4

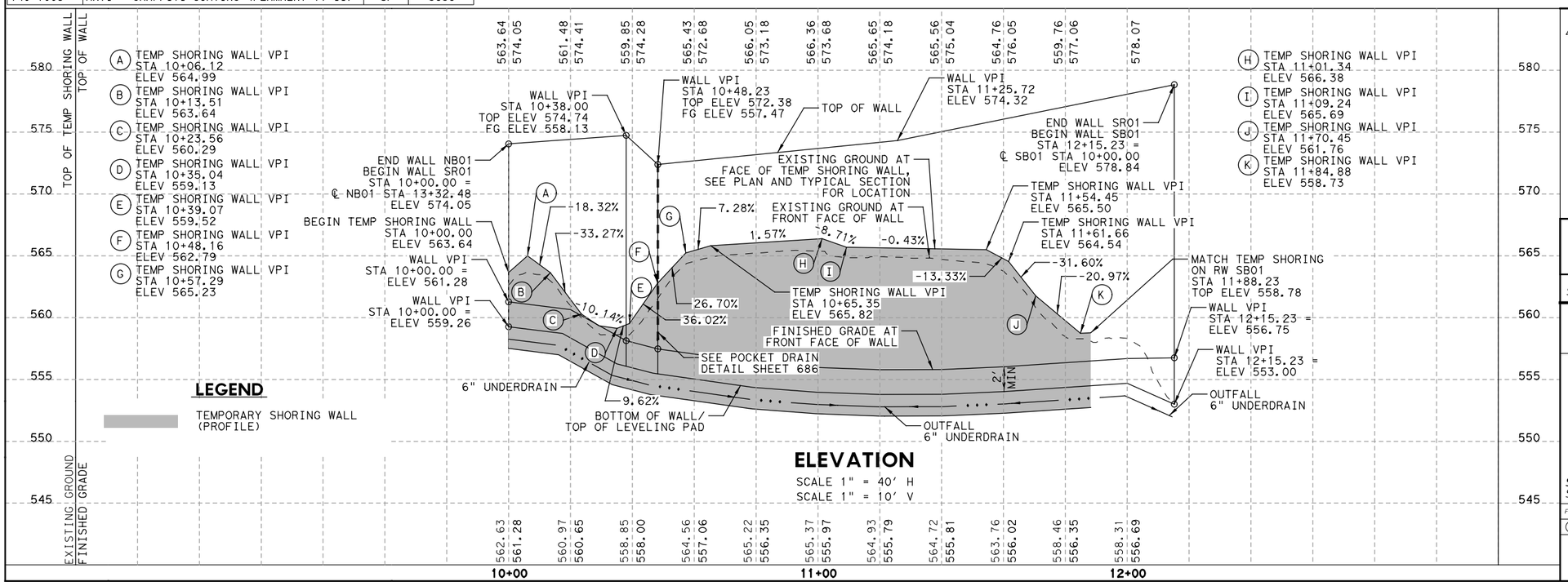
(D) RW158 BORING
℄ SH5 STA 73+09.28,
38.77′RT
SEE NOTE 4



PLAN

SCALE 1" = 40′

SR01 RETAINING WALL QUANTITIES			
ITEM	DESCRIPTION	UNIT	QUANTITY
403-7001	TEMPORARY SPL SHORING	SF	2005
423-7001	RETAINING WALL (MSE)	SF	4289
556-7006	PIPE UNDERDRAINS (TY 6) (6")	LF	218
740-7005	ANTI - GRAFFITI COATING (PERMNENT-TY II)	SF	3838



ELEVATION

SCALE 1" = 40′ H
SCALE 1" = 10′ V

HORIZ. SCALE IN FEET 0 20 40 60 80
VERT. SCALE IN FEET 0 5 10 15 20

LEGEND

- PROPOSED TRAFFIC FLOW
- EXIST ROW
- PROP ROW
- PROP RETAINING WALL
- PROP TEMP SHORING WALL
- PROP PAVEMENT
- PROP BRIDGE/APPROACH SLAB
- EXIST 100 YEAR FLOODPLAIN
- PROP ROCK RIPRAP
- PROP CONCRETE RIPRAP

NOTES:
1. SEE RW(MSE)(DD)(MOD) DESIGN DATA FOR SOIL STRENGTH PARAMETERS AND EARTH REINFORCEMENT REQUIREMENTS. SEE GENERAL NOTES FOR TYPE OF FILL BEHIND MSE WALL.
2. UNLESS OTHERWISE NOTED IN THE PLANS, THE TOP OF THE LEVELING PAD IS LOCATED 2 FEET OR DEEPER BELOW THE FINISHED GRADE.
3. SURFACE AREA OF RETAINING WALL IS MEASURED FROM THE TOP OF RETAINING WALL TO THE TOP OF THE LEVELING PAD. FOOTING ADJUSTMENTS MADE IN THE FIELD ARE NOT MEASURED.
4. ◔ -DENOTES SOIL BORING LOCATION. SEE BORING LOG DATA SHEETS FOR MORE INFORMATION.
5. SEE DRAINAGE PLANS FOR MORE INFORMATION.
6. MOW STRIP SHALL BE CLASS "B" CONCRETE PER TXDOT ITEM 421. "HYDRAULIC CEMENT CONCRETE."
7. THE LOCATIONS OF EXISTING UTILITIES AND STRUCTURES SHOWN ARE BASED ON AVAILABLE SURVEY DATA. THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF ALL EXISTING UTILITIES AND STRUCTURES, AND NOTIFY ENGINEER OF ANY CONFLICTS BEFORE COMMENCING WORK.
8. SEE RW(MSE), RW(EM), RW(RI) AND RW(TRF) STANDARDS FOR ADDITIONAL DETAILS.
9. FOR OTHER DETAILS NOT SHOWN, SEE RETAINING WALL TYPICAL SECTIONS SHEET.
10. SEE TYPE SSTR/C402 RAIL FOR ADDITIONAL DETAILS.
11. CEMENT STABILIZED BACKFILL IS NOT PERMITTED.

1 REVISED 11/14/2024

11/14/2024

STATE OF TEXAS · BRIAN VERWIJST · 127741 · LICENSED PROFESSIONAL ENGINEER

HDR Engineering, Inc.
Firm Registration No. F-754
17111 Preston Road, Suite 300
Dallas, Texas 75248
972.960.4400

Sheet 1 of 1 Sheets

Texas Department of Transportation — Dallas District Bridge

SPUR 399

RETAINING WALL SR01

PLAN AND PROFILE

SCALE:1"=40′-H
SCALE:1"=10′-V

FILE: S399WP60.dgn	DN: AKS	CK: MH	DW: AKS	CK: JMD
©TxDOT 2024	CONT	SECT	JOB	HIGHWAY
REVISIONS	0047	05	057, ETC.	SH5, ETC.
	DIST	COUNTY		SHEET NO.
	DAL	COLLIN		666

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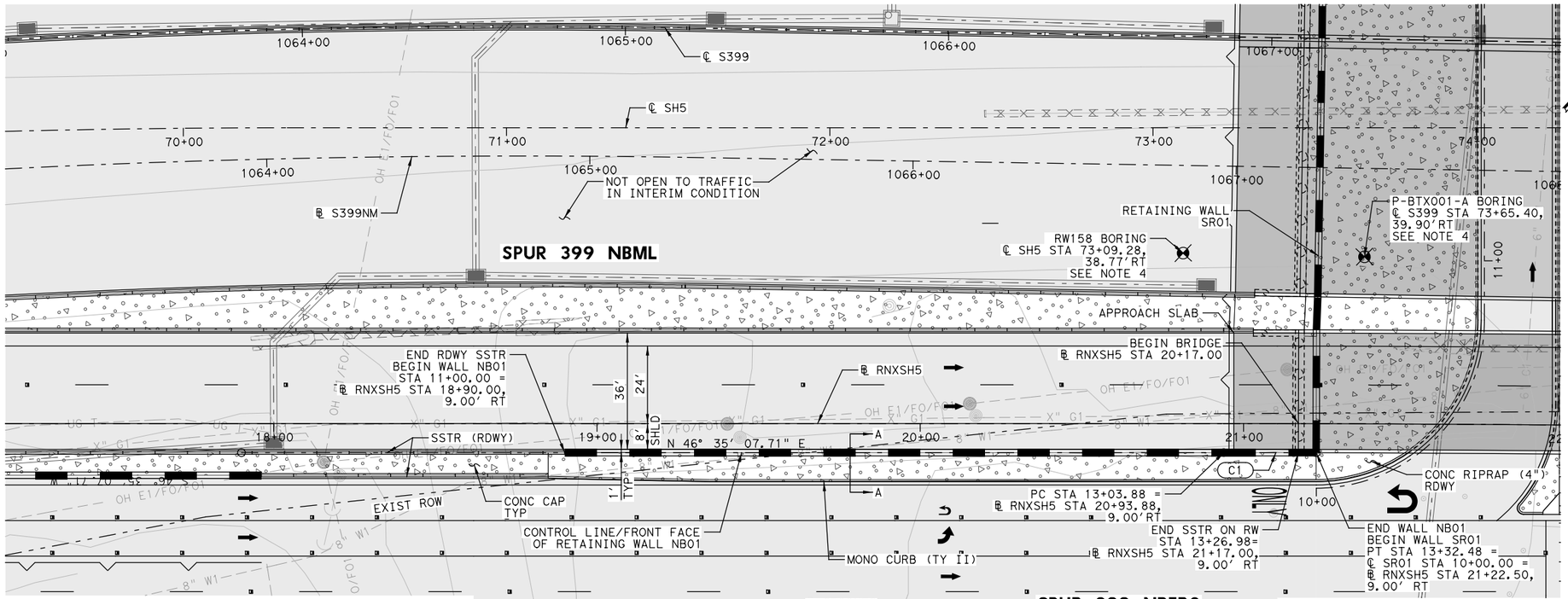
USER: ASRINIVASA
FILE: S399WP60.dgn
PENTABLE: I08II5-SP399-SEGI.tbl
DATE: 11/14/2024
TIME: 4:02:13 PM
CALE: 1:40

FINAL PLANS SUBMITTAL



PLAN

SCALE 1" = 40'

NB01 RETAINING WALL QUANTITIES			
ITEM	DESCRIPTION	UNIT	QUANTITY
423-7001	RETAINING WALL (MSE)	SF	2827
450-7024	RAIL (TY SSTR)	LF	227
556-7006	PIPE UNDERDRAINS (TY 6) (6")	LF	233
740-7005	ANTI - GRAFFITI COATING (PERMNENT-TY II)	SF	2318

HORIZONTAL CURVE DATA

C1

PI STATION	= 13+18.18
DELTA	= 0° 08' 33.46" (RT)
DEGREE OF CURVE	= 0° 29' 55.01"
TANGENT	= 14.30
LENGTH	= 28.60
RADIUS	= 11,491.00
PC STATION	= 13+03.88
PT STATION	= 13+32.48

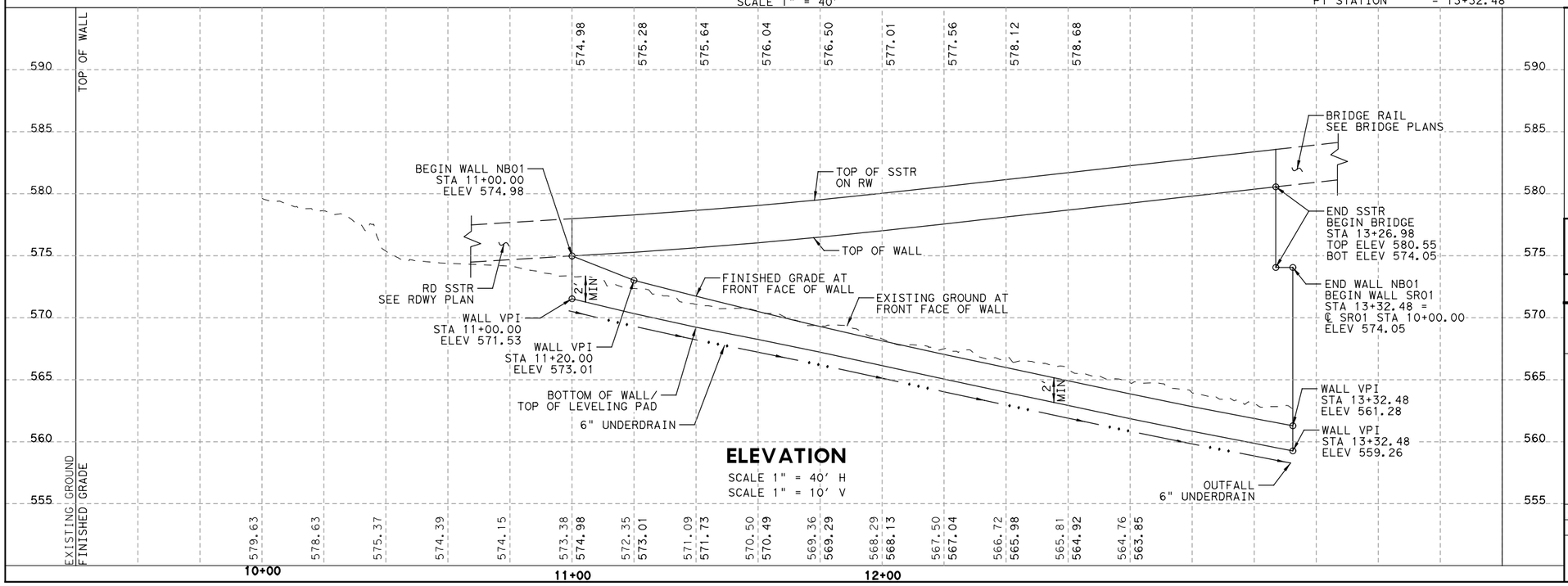
0 20 40 60 80
HORIZ. SCALE IN FEET
0 5 10 15 20
VERT. SCALE IN FEET

LEGEND

- PROPOSED TRAFFIC FLOW
- EXIST ROW
- PROP ROW
- PROP RETAINING WALL
- PROP TEMP SHORING WALL
- PROP PAVEMENT
- PROP BRIDGE/APPROACH SLAB
- EXIST 100 YEAR FLOODPLAIN
- PROP ROCK RIPRAP
- PROP CONCRETE RIPRAP

NOTES:

1. SEE RW(MSE)(DD)(MOD) DESIGN DATA FOR SOIL STRENGTH PARAMETERS AND EARTH REINFORCEMENT REQUIREMENTS. SEE GENERAL NOTES FOR TYPE OF FILL BEHIND MSE WALL.
2. UNLESS OTHERWISE NOTED IN THE PLANS, THE TOP OF THE LEVELING PAD IS LOCATED 2 FEET OR DEEPER BELOW THE FINISHED GRADE.
3. SURFACE AREA OF RETAINING WALL IS MEASURED FROM THE TOP OF RETAINING WALL TO THE TOP OF THE LEVELING PAD. FOOTING ADJUSTMENTS MADE IN THE FIELD ARE NOT MEASURED.
4. ◔ -DENOTES SOIL BORING LOCATION. SEE BORING LOG DATA SHEETS FOR MORE INFORMATION.
5. SEE DRAINAGE PLANS FOR MORE INFORMATION.
6. MOW STRIP SHALL BE CLASS "B" CONCRETE PER TXDOT ITEM 421. "HYDRAULIC CEMENT CONCRETE."
7. THE LOCATIONS OF EXISTING UTILITIES AND STRUCTURES SHOWN ARE BASED ON AVAILABLE SURVEY DATA. THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF ALL EXISTING UTILITIES AND STRUCTURES, AND NOTIFY ENGINEER OF ANY CONFLICTS BEFORE COMMENCING WORK.
8. SEE RW(MSE), RW(EM), RW(RI) AND RW(TRF) STANDARDS FOR ADDITIONAL DETAILS.
9. FOR OTHER DETAILS NOT SHOWN, SEE RETAINING WALL TYPICAL SECTIONS SHEET.
10. SEE TYPE SSTR/C402 RAIL FOR ADDITIONAL DETAILS.
11. CEMENT STABILIZED BACKFILL IS NOT PERMITTED.



ELEVATION

SCALE 1" = 40' H
SCALE 1" = 10' V

1 REVISED 11/14/2024

11/14/2024

STATE OF TEXAS
BRIAN VERWIJST
127741
PROFESSIONAL LICENSED ENGINEER

HDR Engineering, Inc.
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Dallas, Texas 75248
972.960.4400

Sheet 1 of 1 Sheets

Texas Department of Transportation | Dallas District Bridge

SPUR 399
RETAINING WALL NB01
PLAN AND PROFILE

SCALE:1"=40'-H
SCALE:1"=10'-V

FILE: S399WP52.dgn	DN: AKS	CK: MH	DW: AKS	CK: JMD
©TxDOT 2024	CONT	SECT	JOB	HIGHWAY
REVISIONS	0047	05	057, ETC.	SH5, ETC.
	DIST	COUNTY		SHEET NO.
	DAL	COLLIN		668

PLOT DRIVER: TXDOT_PDF_BW.pltcfg
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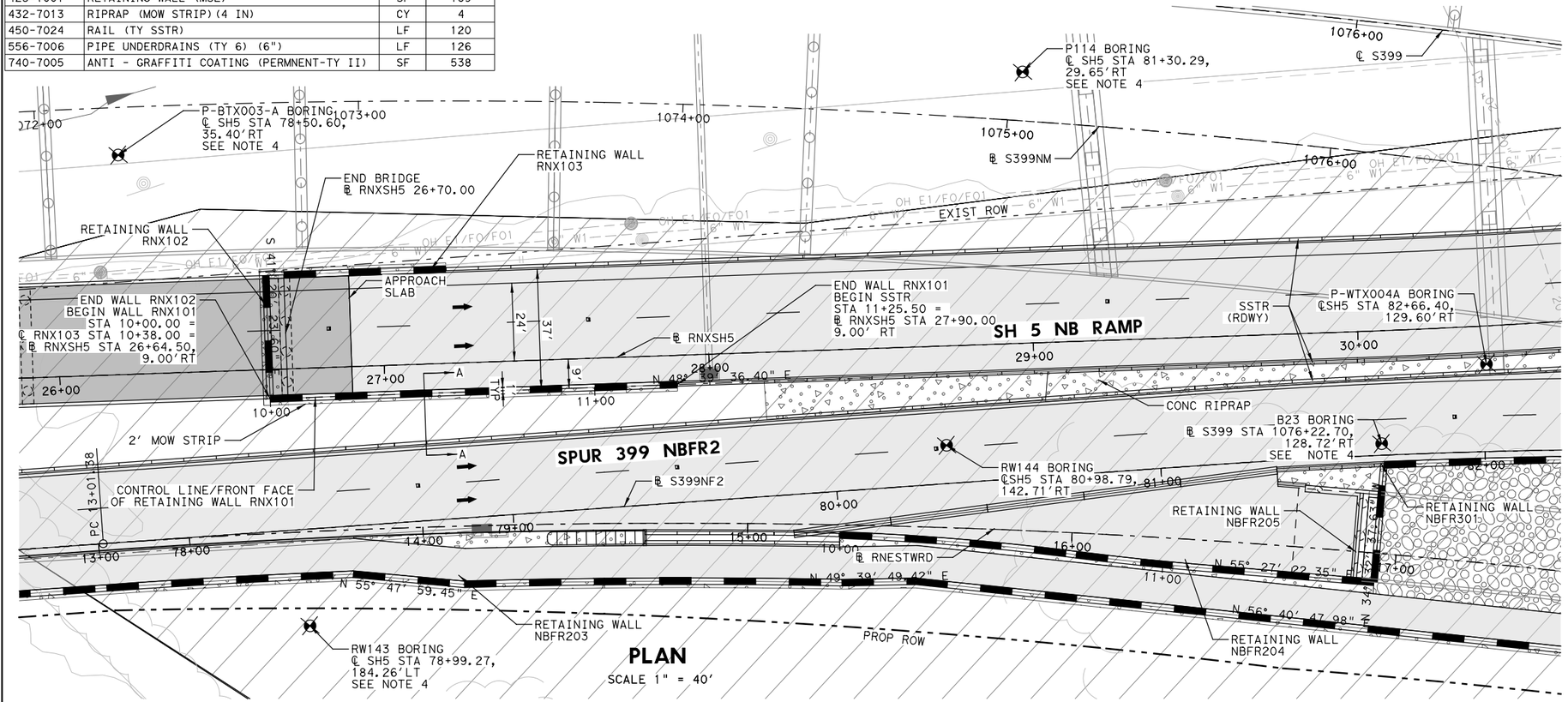
FILE: S399WP52.dgn
DATE: 11/14/2024
TIME: 4:02:13 PM
CALE:1:40
PENTABLE: 10IBI15-SP399-SEG1.tbl

100% PLANS SUBMITTAL

RNX101 RETAINING WALL QUANTITIES			
ITEM	DESCRIPTION	UNIT	QUANTITY
423-7001	RETAINING WALL (MSE)	SF	789
432-7013	RIPRAP (MOW STRIP)(4 IN)	CY	4
450-7024	RAIL (TY SSTR)	LF	120
556-7006	PIPE UNDERDRAINS (TY 6) (6")	LF	126
740-7005	ANTI - GRAFFITI COATING (PERMNENT-TY II)	SF	538



PLAN

SCALE 1" = 40′

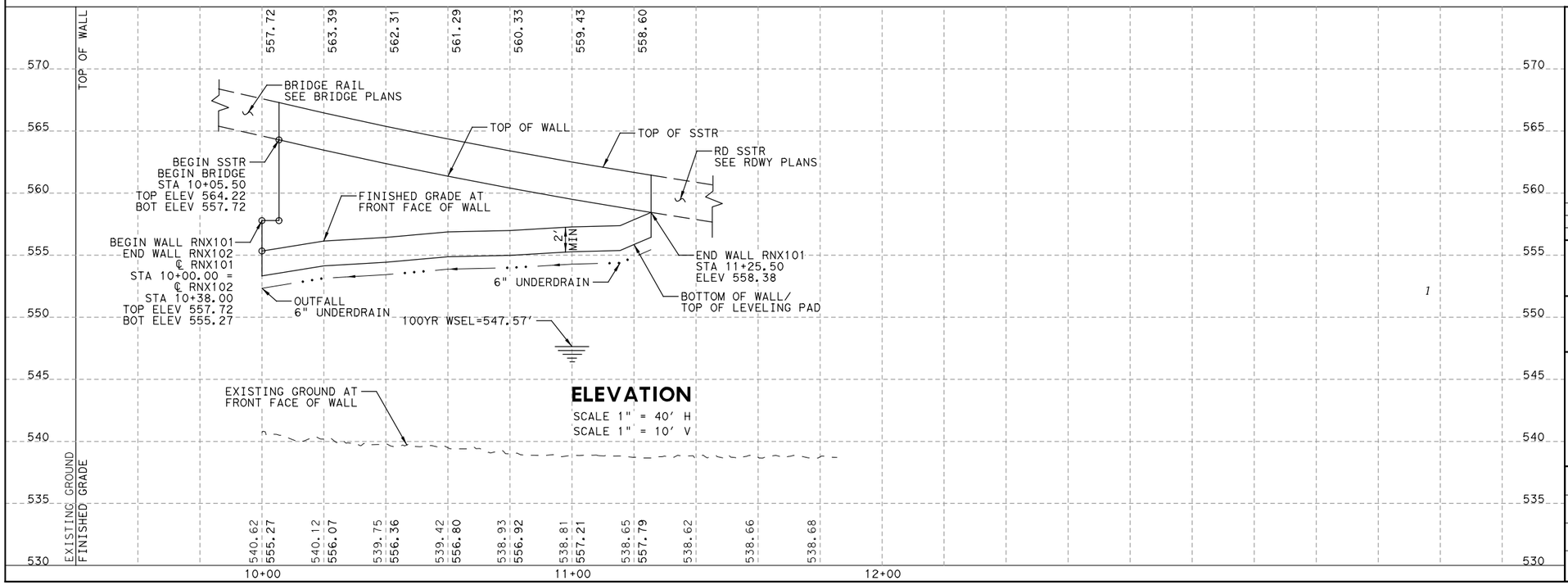
0 20 40 60 80
HORIZ. SCALE IN FEET
0 5 10 15 20
VERT. SCALE IN FEET

LEGEND

- PROPOSED TRAFFIC FLOW
- EXIST ROW
- PROP ROW
- PROP RETAINING WALL
- PROP TEMP SHORING WALL
- PROP PAVEMENT
- PROP BRIDGE/APPROACH SLAB
- EXIST 100 YEAR FLOODPLAIN
- PROP ROCK RIPRAP
- PROP CONCRETE RIPRAP

NOTES:

1. SEE RW(MSE)(DD)(MOD) DESIGN DATA FOR SOIL STRENGTH PARAMETERS AND EARTH REINFORCEMENT REQUIREMENTS. SEE GENERAL NOTES FOR TYPE OF FILL BEHIND MSE WALL.
2. UNLESS OTHERWISE NOTED IN THE PLANS, THE TOP OF THE LEVELING PAD IS LOCATED 2 FEET OR DEEPER BELOW THE FINISHED GRADE.
3. SURFACE AREA OF RETAINING WALL IS MEASURED FROM THE TOP OF RETAINING WALL TO THE TOP OF THE LEVELING PAD. FOOTING ADJUSTMENTS MADE IN THE FIELD ARE NOT MEASURED.
4. ◔ -DENOTES SOIL BORING LOCATION. SEE BORING LOG DATA SHEETS FOR MORE INFORMATION.
5. SEE DRAINAGE PLANS FOR MORE INFORMATION.
6. MOW STRIP SHALL BE CLASS "B" CONCRETE PER TXDOT ITEM 421. "HYDRAULIC CEMENT CONCRETE."
7. THE LOCATIONS OF EXISTING UTILITIES AND STRUCTURES SHOWN ARE BASED ON AVAILABLE SURVEY DATA. THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF ALL EXISTING UTILITIES AND STRUCTURES, AND NOTIFY ENGINEER OF ANY CONFLICTS BEFORE COMMENCING WORK.
8. SEE RW(MSE), RW(EM), RW(RI) AND RW(TRF) STANDARDS FOR ADDITIONAL DETAILS.
9. FOR OTHER DETAILS NOT SHOWN, SEE RETAINING WALL TYPICAL SECTIONS SHEET.
10. SEE TYPE SSTR/C402 RAIL FOR ADDITIONAL DETAILS.
11. CEMENT STABILIZED BACKFILL IS NOT PERMITTED.



ELEVATION

SCALE 1" = 40′ H
SCALE 1" = 10′ V

1

NO.	DATE	REVISION	APPROVED
1		REVISED 11/14/2024	

11/14/2024

STATE OF TEXAS
BRIAN VERWIJST
127741
LICENSED
PROFESSIONAL ENGINEER

HDR Engineering, Inc.
Firm Registration No. F-754
17111 Preston Road, Suite 300
Dallas, Texas 75248
972.960.4400

SPUR 399
RETAINING WALL RNX101
PLAN AND PROFILE
BEGIN TO END

SCALE: 1"=40′-H
1"=10′-V

SHEET 1 OF 1

DESIGN	FED.RD. DIV.NO.	FEDERAL-AID PROJECT NO.		HIGHWAY NO.
JMD	6	SEE TITLE SHEET		SH5, ETC.
GRAPHICS AKS	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK MH	TEXAS	DAL	COLLIN	670
CHECK JMD	CONTROL	SECTION	JOB	
	0047	05	057, ETC.	

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USER: ASRINVASA
FILE: S399WP61.dgn
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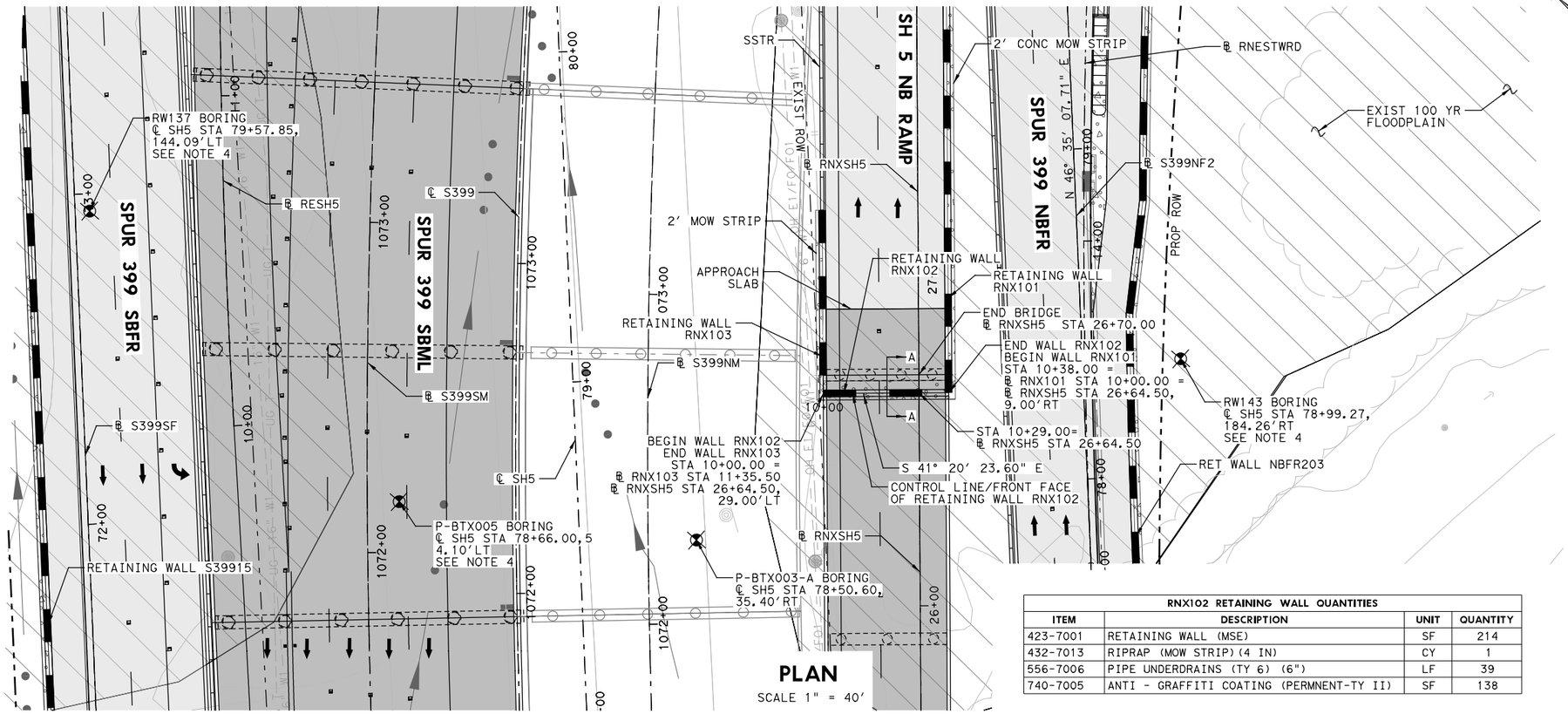
100% PLANS SUBMITTAL



PLAN

SCALE 1" = 40'

RNX102 RETAINING WALL QUANTITIES			
ITEM	DESCRIPTION	UNIT	QUANTITY
423-7001	RETAINING WALL (MSE)	SF	214
432-7013	RIPRAP (MOW STRIP)(4 IN)	CY	1
556-7006	PIPE UNDERDRAINS (TY 6) (6")	LF	39
740-7005	ANTI - GRAFFITI COATING (PERMNENT-TY II)	SF	138

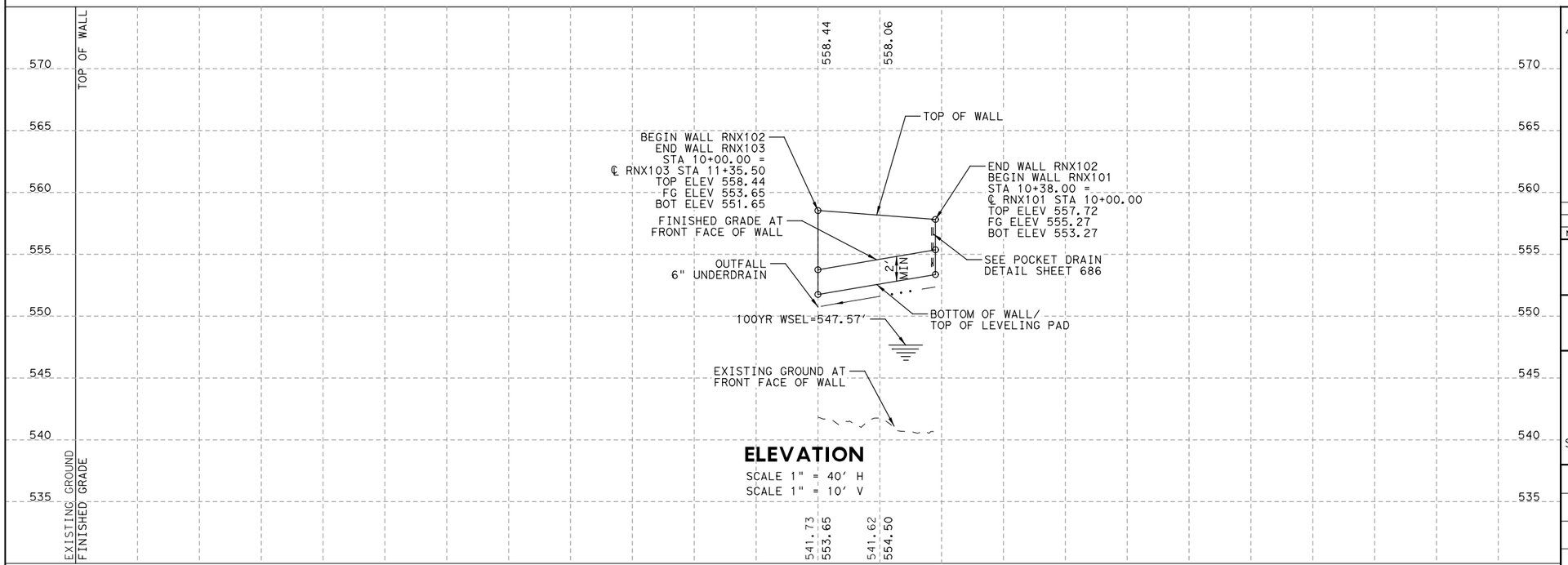
0 20 40 60 80
HORIZ. SCALE IN FEET
0 5 10 15 20
VERT. SCALE IN FEET

LEGEND

- PROPOSED TRAFFIC FLOW
- EXIST ROW
- PROP ROW
- PROP RETAINING WALL
- PROP TEMP SHORING WALL
- PROP PAVEMENT
- PROP BRIDGE/APPROACH SLAB
- EXIST 100 YEAR FLOODPLAIN
- PROP ROCK RIPRAP
- PROP CONCRETE RIPRAP

NOTES:

1. SEE RW(MSE)(DD)(MOD) DESIGN DATA FOR SOIL STRENGTH PARAMETERS AND EARTH REINFORCEMENT REQUIREMENTS. SEE GENERAL NOTES FOR TYPE OF FILL BEHIND MSE WALL.
2. UNLESS OTHERWISE NOTED IN THE PLANS, THE TOP OF THE LEVELING PAD IS LOCATED 2 FEET OR DEEPER BELOW THE FINISHED GRADE.
3. SURFACE AREA OF RETAINING WALL IS MEASURED FROM THE TOP OF RETAINING WALL TO THE TOP OF THE LEVELING PAD. FOOTING ADJUSTMENTS MADE IN THE FIELD ARE NOT MEASURED.
4. ⊕ -DENOTES SOIL BORING LOCATION. SEE BORING LOG DATA SHEETS FOR MORE INFORMATION.
5. SEE DRAINAGE PLANS FOR MORE INFORMATION.
6. MOW STRIP SHALL BE CLASS "B" CONCRETE PER TXDOT ITEM 421. "HYDRAULIC CEMENT CONCRETE."
7. THE LOCATIONS OF EXISTING UTILITIES AND STRUCTURES SHOWN ARE BASED ON AVAILABLE SURVEY DATA. THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF ALL EXISTING UTILITIES AND STRUCTURES, AND NOTIFY ENGINEER OF ANY CONFLICTS BEFORE COMMENCING WORK.
8. SEE RW(MSE), RW(EM), RW(RI) AND RW(TRF) STANDARDS FOR ADDITIONAL DETAILS.
9. FOR OTHER DETAILS NOT SHOWN, SEE RETAINING WALL TYPICAL SECTIONS SHEET.
10. SEE TYPE SSTR/C402 RAIL FOR ADDITIONAL DETAILS.
11. CEMENT STABILIZED BACKFILL IS NOT PERMITTED.



ELEVATION

SCALE 1" = 40' H
SCALE 1" = 10' V

1 REVISED 11/14/2024

11/14/2024

STATE OF TEXAS
BRIAN VERWIJST
127741
PROFESSIONAL ENGINEER
LICENSED

NO.	DATE	REVISION	APPROVED

HDR Engineering, Inc.
Firm Registration No. F-754
17111 Preston Road, Suite 300
Dallas, Texas 75248
972.960.4400

SPUR 399
RETAINING WALL RNX102
PLAN AND PROFILE
BEGIN TO END

SCALE: 1"=40'-H
1"=10'-V

SHEET 1 OF 1

DESIGN	FED.RD. DIV.NO.	FEDERAL-AID PROJECT NO.		HIGHWAY NO.
JMD	6	SEE TITLE SHEET		SH5, ETC.
GRAPHICS AKS	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK MH	TEXAS	DAL	COLLIN	672
CHECK JMD	CONTROL	SECTION	JOB	
	0047	05	057, ETC.	

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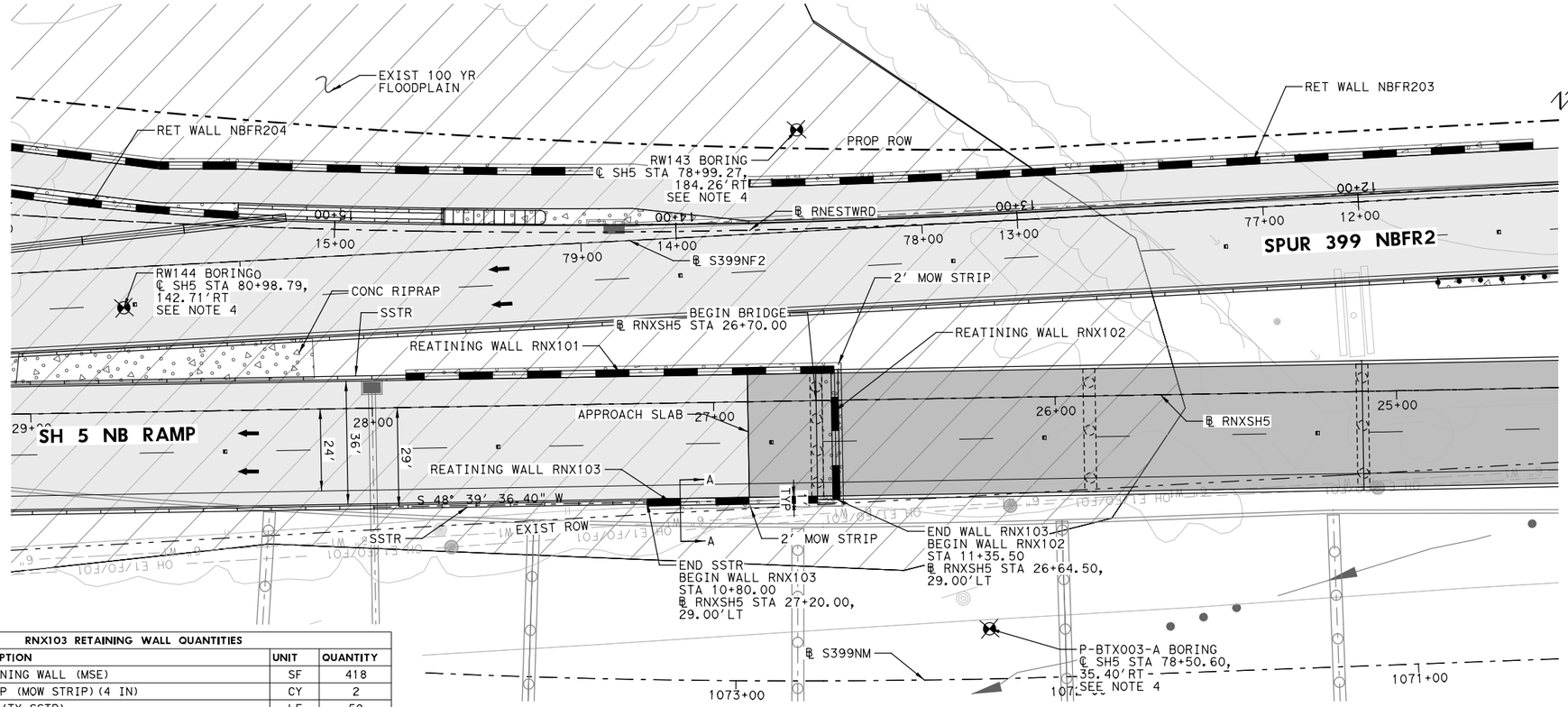
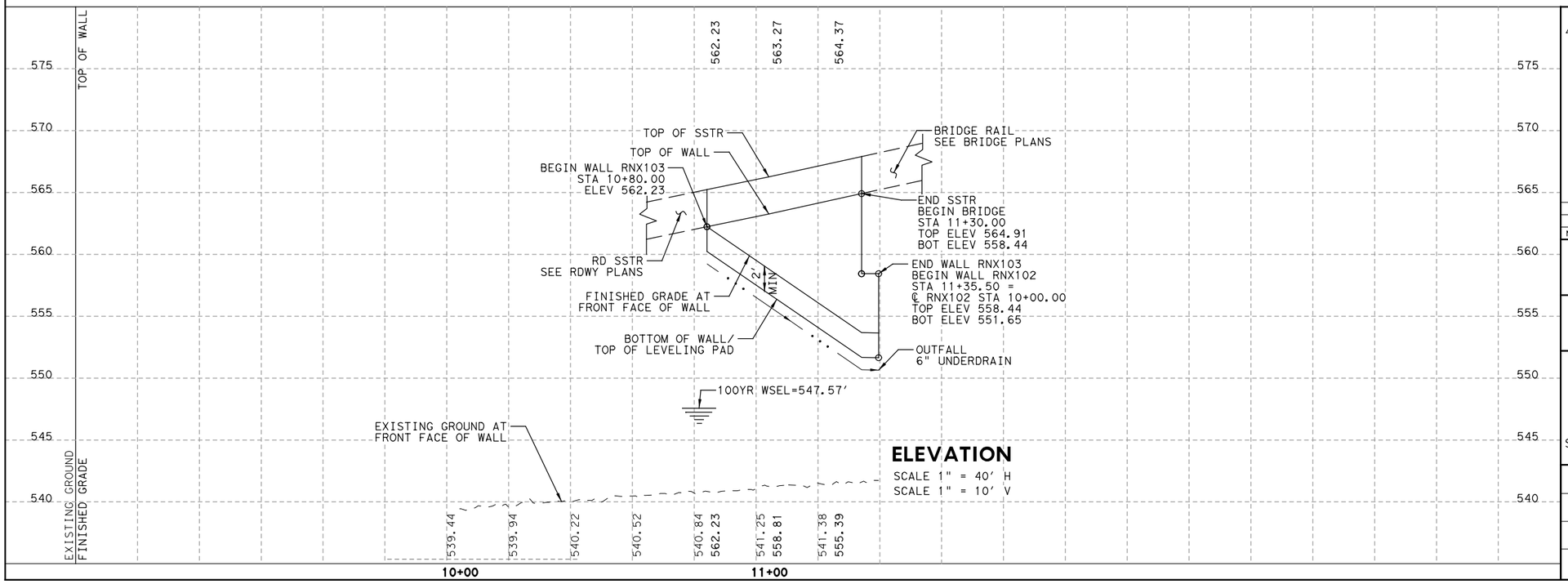
100% PLANS SUBMITTAL



PLAN

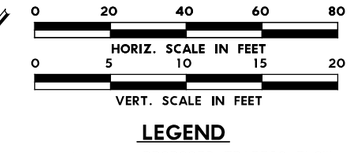
SCALE 1" = 40'

RNX103 RETAINING WALL QUANTITIES			
ITEM	DESCRIPTION	UNIT	QUANTITY
423-7001	RETAINING WALL (MSE)	SF	418
432-7013	RIPRAP (MOW STRIP)(4 IN)	CY	2
450-7024	RAIL (TY SSTR)	LF	50
556-7006	PIPE UNDERDRAINS (TY 6) (6")	LF	57
740-7005	ANTI - GRAFFITI COATING (PERMNENT-TY II)	SF	307



ELEVATION

SCALE 1" = 40' H
SCALE 1" = 10' V



LEGEND

- PROPOSED TRAFFIC FLOW
- EXIST ROW
- PROP ROW
- PROP RETAINING WALL
- PROP TEMP SHORING WALL
- PROP PAVEMENT
- PROP BRIDGE/APPROACH SLAB
- EXIST 100 YEAR FLOODPLAIN
- PROP ROCK RIPRAP
- PROP CONCRETE RIPRAP

NOTES:

1. SEE RW(MSE)(DD)(MOD) DESIGN DATA FOR SOIL STRENGTH PARAMETERS AND EARTH REINFORCEMENT REQUIREMENTS. SEE GENERAL NOTES FOR TYPE OF FILL BEHIND MSE WALL.
2. UNLESS OTHERWISE NOTED IN THE PLANS, THE TOP OF THE LEVELING PAD IS LOCATED 2 FEET OR DEEPER BELOW THE FINISHED GRADE.
3. SURFACE AREA OF RETAINING WALL IS MEASURED FROM THE TOP OF RETAINING WALL TO THE TOP OF THE LEVELING PAD. FOOTING ADJUSTMENTS MADE IN THE FIELD ARE NOT MEASURED.
4. ◔ -DENOTES SOIL BORING LOCATION. SEE BORING LOG DATA SHEETS FOR MORE INFORMATION.
5. SEE DRAINAGE PLANS FOR MORE INFORMATION.
6. MOW STRIP SHALL BE CLASS "B" CONCRETE PER TXDOT ITEM 421. "HYDRAULIC CEMENT CONCRETE."
7. THE LOCATIONS OF EXISTING UTILITIES AND STRUCTURES SHOWN ARE BASED ON AVAILABLE SURVEY DATA. THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF ALL EXISTING UTILITIES AND STRUCTURES, AND NOTIFY ENGINEER OF ANY CONFLICTS BEFORE COMMENCING WORK.
8. SEE RW(MSE), RW(EM), RW(RI) AND RW(TRF) STANDARDS FOR ADDITIONAL DETAILS.
9. FOR OTHER DETAILS NOT SHOWN, SEE RETAINING WALL TYPICAL SECTIONS SHEET.
10. SEE TYPE SSTR/C402 RAIL FOR ADDITIONAL DETAILS.
11. CEMENT STABILIZED BACKFILL IS NOT PERMITTED.

1 REVISED 11/14/2024

11/14/2024

STATE OF TEXAS
BRIAN VERWIJST
127741
LICENSED
PROFESSIONAL ENGINEER

NO.	DATE	REVISION	APPROVED

HDR Engineering, Inc.
Firm Registration No. F-754
17111 Preston Road, Suite 300
Dallas, Texas 75248
972.960.4400

SPUR 399
RETAINING WALL RNX103
PLAN AND PROFILE
BEGIN TO END

SCALE: 1"=40'-H
1"=10'-V

SHEET 1 OF 1

DESIGN	FED.RD. DIV.NO.	FEDERAL-AID PROJECT NO.		HIGHWAY NO.
JMD	6	SEE TITLE SHEET		SH5, ETC.
GRAPHICS AKS	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK MH	TEXAS	DAL	COLLIN	
CHECK JMD	CONTROL	SECTION	JOB	674
	0047	05	057, ETC.	

PLOT DRIVER: TXDOT_PDF_BW.pltcfg PENTABLE: I0I8II5-SP399-SEGI.tbl
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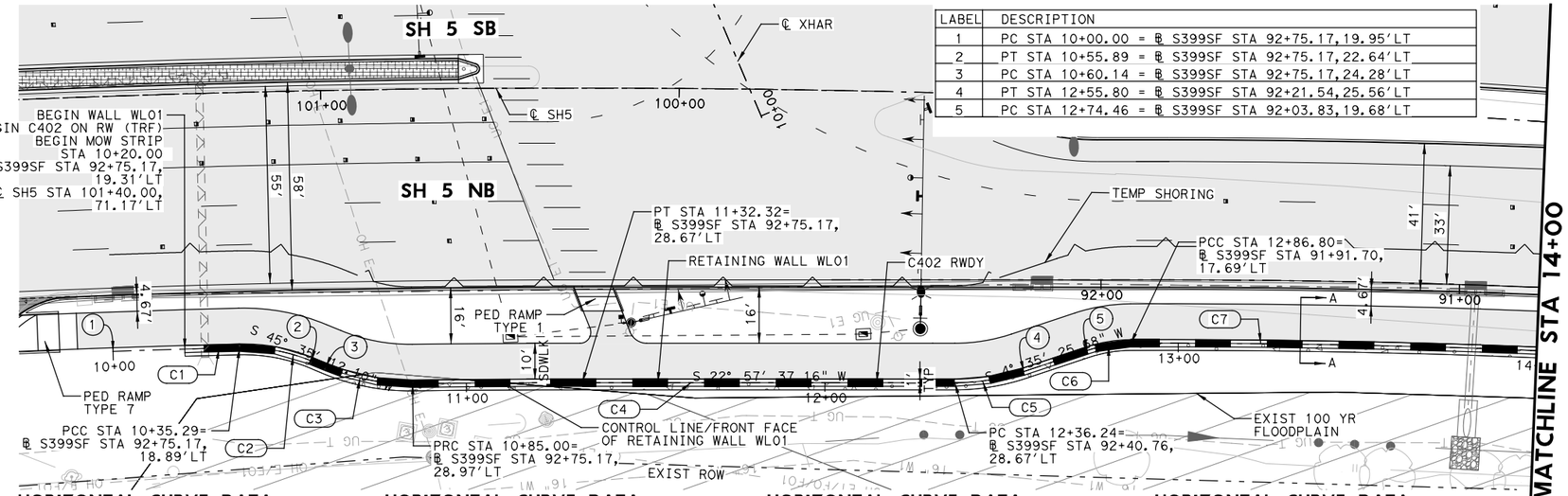
FILE: S399WP63.dgn

100% PLANS SUBMITTAL



LABEL	DESCRIPTION
1	PC STA 10+00.00 = ℄ S399SF STA 92+75.17, 19.95'LT
2	PT STA 10+55.89 = ℄ S399SF STA 92+75.17, 22.64'LT
3	PC STA 10+60.14 = ℄ S399SF STA 92+75.17, 24.28'LT
4	PT STA 12+55.80 = ℄ S399SF STA 92+21.54, 25.56'LT
5	PC STA 12+74.46 = ℄ S399SF STA 92+03.83, 19.68'LT

0 20 40 60 80
HORIZ. SCALE IN FEET
0 5 10 15 20
VERT. SCALE IN FEET

LEGEND

- PROPOSED TRAFFIC FLOW
- EXIST ROW
- PROP ROW
- PROP RETAINING WALL
- PROP TEMP SHORING WALL
- PROP PAVEMENT
- PROP BRIDGE/APPROACH SLAB
- EXIST 100 YEAR FLOODPLAIN
- PROP ROCK RIPRAP
- PROP CONCRETE RIPRAP

NOTES:
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6. MOW STRIP SHALL BE CLASS "B" CONCRETE PER TXDOT ITEM 421. "HYDRAULIC CEMENT CONCRETE."
7. THE LOCATIONS OF EXISTING UTILITIES AND STRUCTURES SHOWN ARE BASED ON AVAILABLE SURVEY DATA. THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF ALL EXISTING UTILITIES AND STRUCTURES, AND NOTIFY ENGINEER OF ANY CONFLICTS BEFORE COMMENCING WORK.
8. SEE RW(MSE), RW(EM), RW(RI) AND RW(TRF) STANDARDS FOR ADDITIONAL DETAILS.
9. FOR OTHER DETAILS NOT SHOWN, SEE RETAINING WALL TYPICAL SECTIONS SHEET.
10. SEE TYPE SSTR/C402 RAIL FOR ADDITIONAL DETAILS.
11. CEMENT STABILIZED BACKFILL IS NOT PERMITTED.

HORIZONTAL CURVE DATA — C1

PI STATION	= 10+17.65
DELTA	= 1° 32′ 21.98" (RT)
DEGREE OF CURVE	= 1° 31′ 42.52"
TANGENT	= 17.65
LENGTH	= 35.29
RADIUS	= 3,748.55
PC STATION	= 10+00.00
PT STATION	= 10+35.29

HORIZONTAL CURVE DATA — C2

PI STATION	= 10+45.75
DELTA	= 24° 05′ 14.55" (RT)
DEGREE OF CURVE	= 116° 55′ 48.59"
TANGENT	= 10.45
LENGTH	= 20.60
RADIUS	= 49.00
PC STATION	= 10+35.29
PT STATION	= 11+55.89

HORIZONTAL CURVE DATA — C3

PI STATION	= 10+72.75
DELTA	= 23° 21′ 05.96" (RT)
DEGREE OF CURVE	= 93° 55′ 39.03"
TANGENT	= 12.61
LENGTH	= 24.86
RADIUS	= 61
PC STATION	= 10+60.14
PT STATION	= 10+85.00

HORIZONTAL CURVE DATA — C4

PI STATION	= 11+08.66
DELTA	= 0° 43′ 31.02" (RT)
DEGREE OF CURVE	= 1° 31′ 58.72"
TANGENT	= 22.66
LENGTH	= 47.31
RADIUS	= 3,737.55
PC STATION	= 10+85.00
PT STATION	= 11+32.32

HORIZONTAL CURVE DATA — C5

PI STATION	= 12+46.10
DELTA	= 18° 22′ 11.48" (RT)
DEGREE OF CURVE	= 93° 55′ 39.03"
TANGENT	= 9.86
LENGTH	= 19.56
RADIUS	= 61.00
PC STATION	= 12+36.24
PT STATION	= 12+55.80

HORIZONTAL CURVE DATA — C6

PI STATION	= 12+80.68
DELTA	= 18° 07′ 34.91" (RT)
DEGREE OF CURVE	= 146° 54′ 44.12"
TANGENT	=6.22
LENGTH	= 12.34
RADIUS	= 39.300
PC STATION	= 12+74.46
PT STATION	= 12+86.80

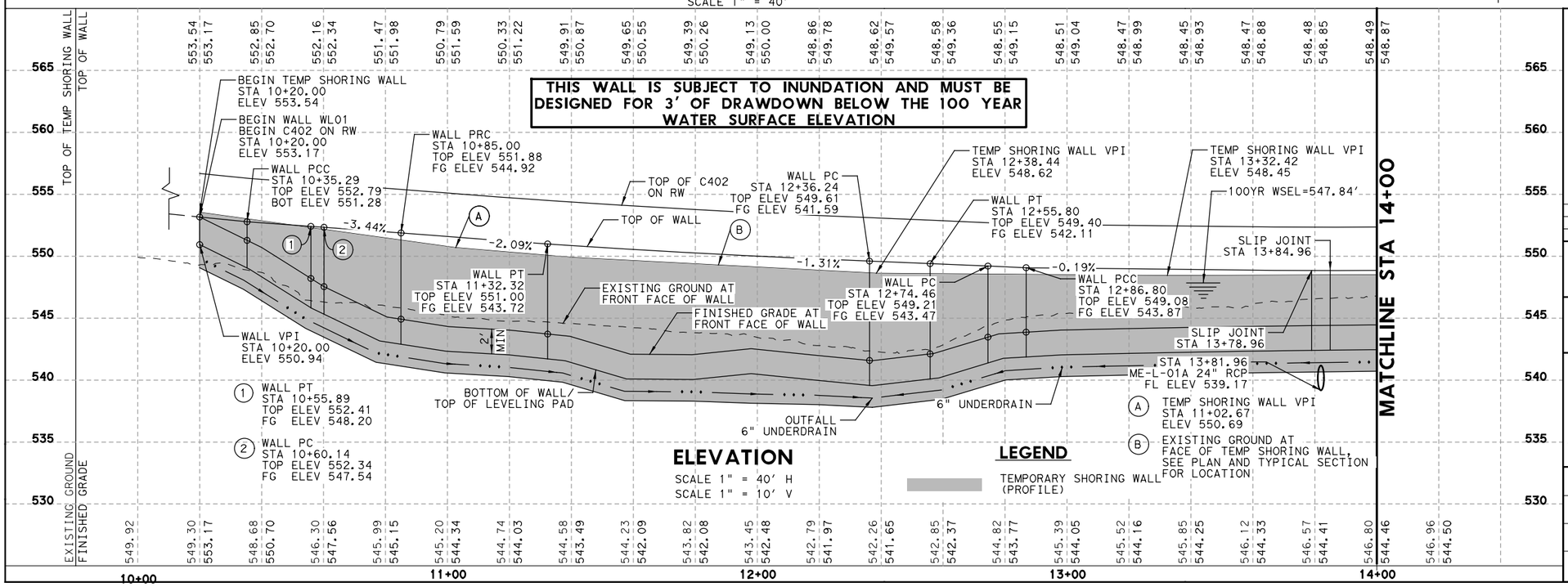
HORIZONTAL CURVE DATA — C7

PI STATION	= 15+11.34
DELTA	= 10° 07′ 22.57" (RT)
DEGREE OF CURVE	= 2° 15′ 36.22"
TANGENT	= 224.54
LENGTH	= 447.91
RADIUS	= 2,535.14
PC STATION	= 12+86.80
PT STATION	= 17+34.70

WL01 RETAINING WALL QUANTITIES			
ITEM	DESCRIPTION	UNIT	QUANTITY
403-7001	TEMPORARY SPL SHORING	SF	3514
423-7001	RETAINING WALL (MSE)	SF	3049
432-7013	RIPRAP (MOW STRIP)(4 IN)	CY	10
450-7036	RAIL (TY C402)	LF	380
556-7006	PIPE UNDERDRAINS (TY 6) (6")	LF	381
740-7005	ANTI - GRAFFITI COATING (PERMNENT-TY II)	SF	2268

PLAN

SCALE 1" = 40′



ELEVATION

SCALE 1" = 40′ H
SCALE 1" = 10′ V

LEGEND

TEMPORARY SHORING WALL (PROFILE)

1 REVISED 11/14/2024

11/14/2024

STATE OF TEXAS — BRIAN VERWIJST — 127741 — LICENSED PROFESSIONAL ENGINEER

NO.	DATE	REVISION	APPROVED

HDR Engineering, Inc.
Firm Registration No. F-754
17111 Preston Road, Suite 300
Dallas, Texas 75248
972.960.4400

Texas Department of Transportation
© 2024

SPUR 399
RETAINING WALL WL01
PLAN AND PROFILE
BEGIN TO 14+00

SCALE: 1"=40′-H
1"=10′-V

SHEET 1 OF 2

DESIGN	FED.RD. DIV.NO.	FEDERAL-AID PROJECT NO.		HIGHWAY NO.
JMD	6	SEE TITLE SHEET		SH5, ETC.
GRAPHICS AKS	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK MH	TEXAS	DAL	COLLIN	
CHECK JMD	CONTROL 0047	SECTION 05	JOB 057, ETC.	676

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USER: ASRINIVASA
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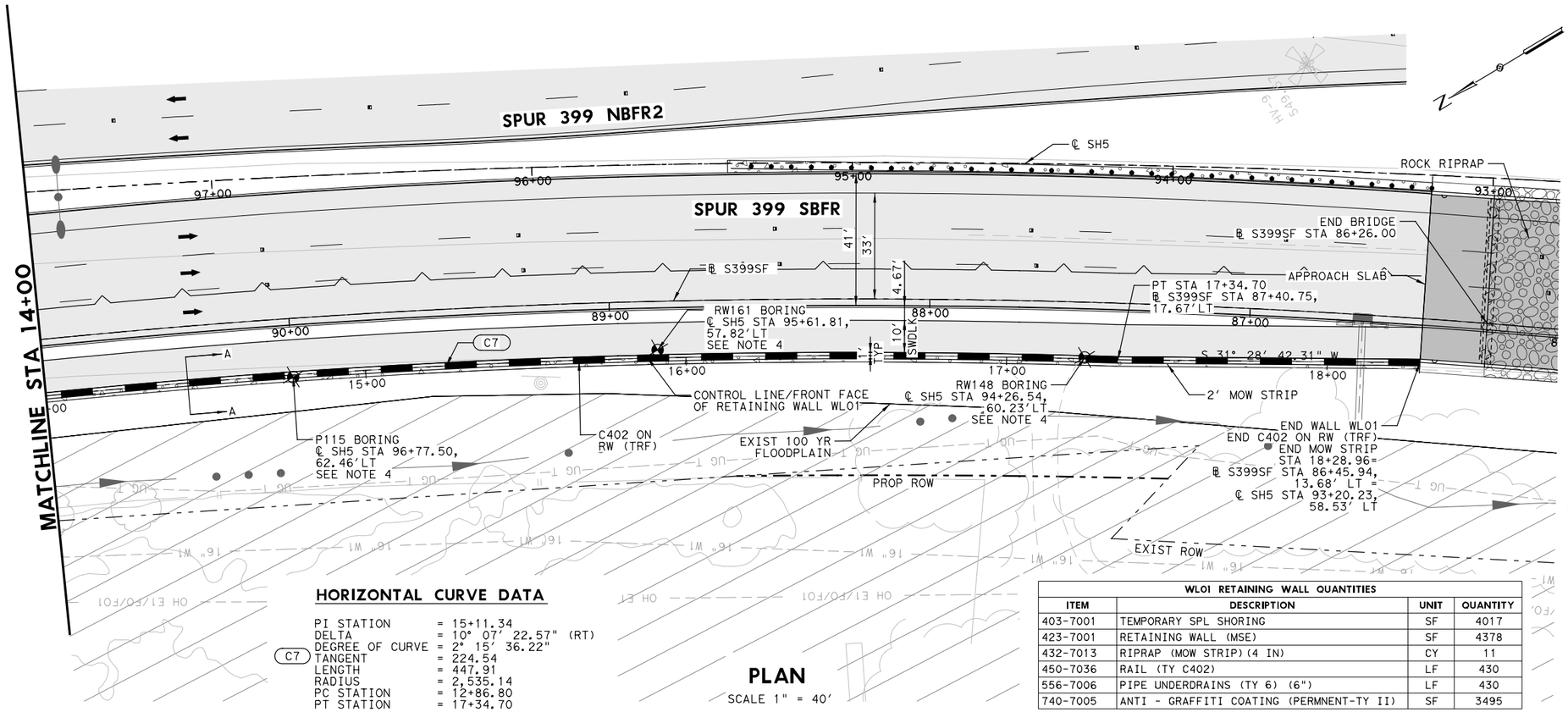
100% PLANS SUBMITTAL



HORIZONTAL CURVE DATA

C7

PI STATION	= 15+11.34
DELTA	= 10° 07' 22.57" (RT)
DEGREE OF CURVE	= 2° 15' 36.22"
TANGENT	= 224.54
LENGTH	= 447.91
RADIUS	= 2,535.14
PC STATION	= 12+86.80
PT STATION	= 17+34.70

PLAN

SCALE 1" = 40'

WL01 RETAINING WALL QUANTITIES			
ITEM	DESCRIPTION	UNIT	QUANTITY
403-7001	TEMPORARY SPL SHORING	SF	4017
423-7001	RETAINING WALL (MSE)	SF	4378
432-7013	RIPRAP (MOW STRIP)(4 IN)	CY	11
450-7036	RAIL (TY C402)	LF	430
556-7006	PIPE UNDERDRAINS (TY 6) (6")	LF	430
740-7005	ANTI - GRAFFITI COATING (PERMNENT-TY II)	SF	3495

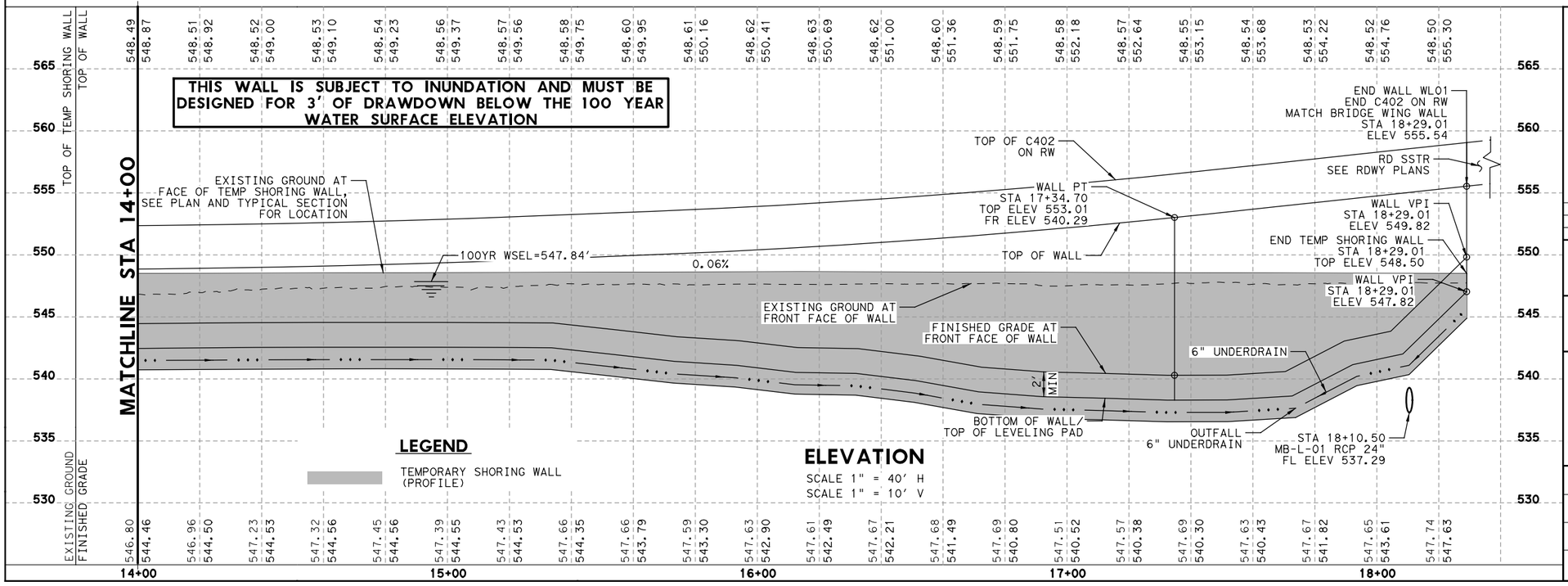
0 20 40 60 80
HORIZ. SCALE IN FEET
0 5 10 15 20
VERT. SCALE IN FEET

LEGEND

- PROPOSED TRAFFIC FLOW
- EXIST ROW
- PROP ROW
- PROP RETAINING WALL
- PROP TEMP SHORING WALL
- PROP PAVEMENT
- PROP BRIDGE/APPROACH SLAB
- EXIST 100 YEAR FLOODPLAIN
- PROP ROCK RIPRAP
- PROP CONCRETE RIPRAP

NOTES:

1. SEE RW(MSE)(DD)(MOD) DESIGN DATA FOR SOIL STRENGTH PARAMETERS AND EARTH REINFORCEMENT REQUIREMENTS. SEE GENERAL NOTES FOR TYPE OF FILL BEHIND MSE WALL.
2. UNLESS OTHERWISE NOTED IN THE PLANS, THE TOP OF THE LEVELING PAD IS LOCATED 2 FEET OR DEEPER BELOW THE FINISHED GRADE.
3. SURFACE AREA OF RETAINING WALL IS MEASURED FROM THE TOP OF RETAINING WALL TO THE TOP OF THE LEVELING PAD. FOOTING ADJUSTMENTS MADE IN THE FIELD ARE NOT MEASURED.
4. ◔ -DENOTES SOIL BORING LOCATION. SEE BORING LOG DATA SHEETS FOR MORE INFORMATION.
5. SEE DRAINAGE PLANS FOR MORE INFORMATION.
6. MOW STRIP SHALL BE CLASS "B" CONCRETE PER TXDOT ITEM 421. "HYDRAULIC CEMENT CONCRETE."
7. THE LOCATIONS OF EXISTING UTILITIES AND STRUCTURES SHOWN ARE BASED ON AVAILABLE SURVEY DATA. THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF ALL EXISTING UTILITIES AND STRUCTURES, AND NOTIFY ENGINEER OF ANY CONFLICTS BEFORE COMMENCING WORK.
8. SEE RW(MSE), RW(EM), RW(RI) AND RW(TRF) STANDARDS FOR ADDITIONAL DETAILS.
9. FOR OTHER DETAILS NOT SHOWN, SEE RETAINING WALL TYPICAL SECTIONS SHEET.
10. SEE TYPE SSTR/C402 RAIL FOR ADDITIONAL DETAILS.
11. CEMENT STABILIZED BACKFILL IS NOT PERMITTED.



LEGEND

TEMPORARY SHORING WALL (PROFILE)

ELEVATION

SCALE 1" = 40' H
SCALE 1" = 10' V

1 REVISED 11/14/2024

11/14/2024

STATE OF TEXAS
BRIAN VERWIJST
127741
LICENSED PROFESSIONAL ENGINEER

NO.	DATE	REVISION	APPROVED

HDR Engineering, Inc.
Firm Registration No. F-754
17111 Preston Road, Suite 300
Dallas, Texas 75248
972.960.4400

Texas Department of Transportation

SPUR 399 RETAINING WALL WL01 PLAN AND PROFILE 14+00 TO END

SCALE: 1"=40'-H
1"=10'-V

SHEET 2 OF 2

DESIGN	FED.RD. DIV.NO.	FEDERAL-AID PROJECT NO.		HIGHWAY NO.
JMD	6	SEE TITLE SHEET		SH5, ETC.
GRAPHICS	STATE	DISTRICT	COUNTY	SHEET NO.
CMR	TEXAS	DAL	COLLIN	
CHECK	CONTROL	SECTION	JOB	677
MH	0047	05	057, ETC.	
CHECK				
JMD				

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DATE: 11/14/2024
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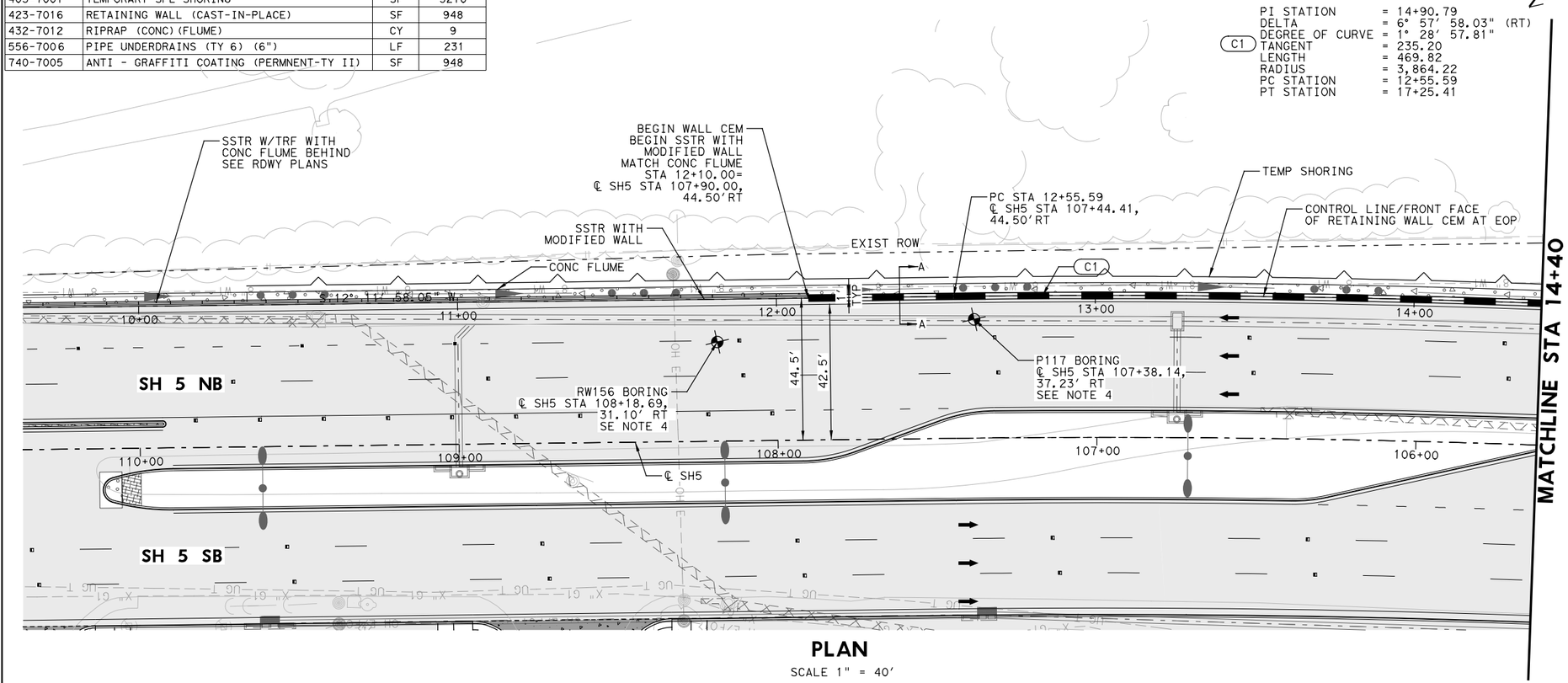
USER: ASRINIVASA
FILE: S399WP107A.dgn

100% PLANS SUBMITTAL

CEM RETAINING WALL QUANTITIES			
ITEM	DESCRIPTION	UNIT	QUANTITY
403-7001	TEMPORARY SPL SHORING	SF	3270
423-7016	RETAINING WALL (CAST-IN-PLACE)	SF	948
432-7012	RIPRAP (CONC)(FLUME)	CY	9
556-7006	PIPE UNDERDRAINS (TY 6) (6")	LF	231
740-7005	ANTI - GRAFFITI COATING (PERMNENT-TY II)	SF	948

HORIZONTAL CURVE DATA

C1
PI STATION = 14+90.79
DELTA = 6° 57′ 58.03" (RT)
DEGREE OF CURVE = 1° 28′ 57.81"
TANGENT = 235.20
LENGTH = 469.82
RADIUS = 3,864.22
PC STATION = 12+55.59
PT STATION = 17+25.41



PLAN
SCALE 1" = 40′

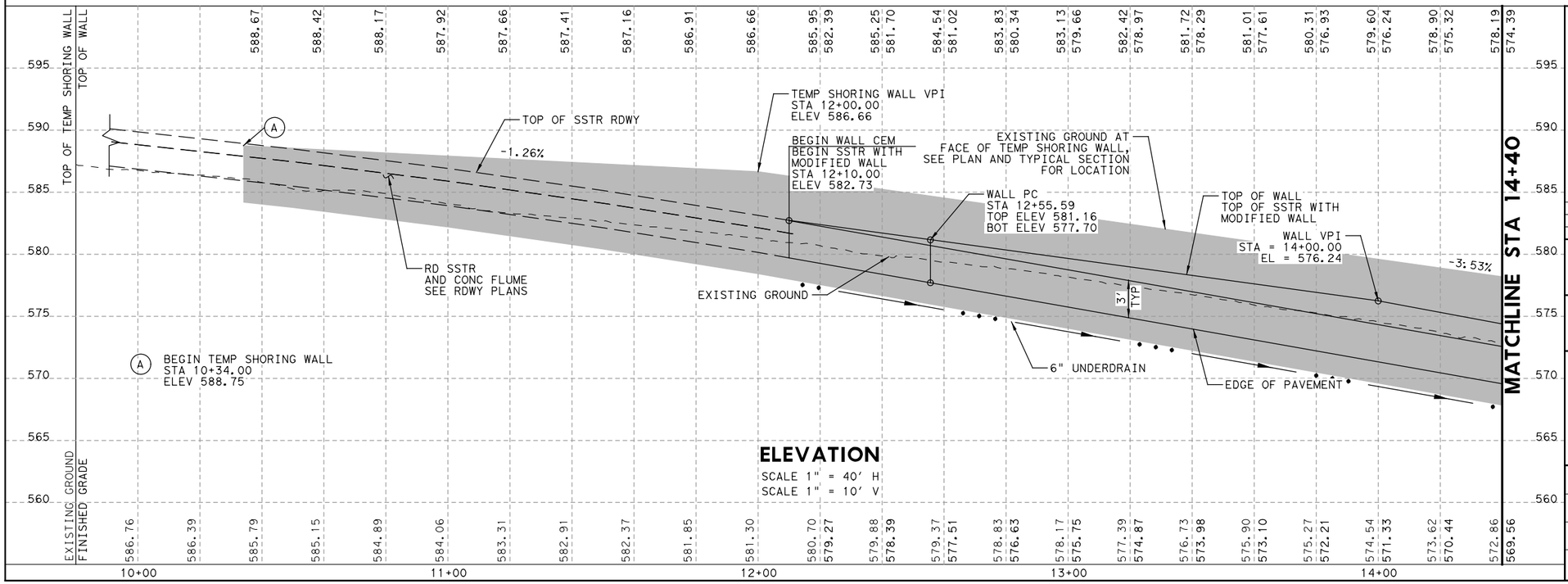
0 20 40 60 80
HORIZ. SCALE IN FEET
0 5 10 15 20
VERT. SCALE IN FEET

LEGEND

- PROPOSED TRAFFIC FLOW
- EXIST ROW
- PROP ROW
- PROP RETAINING WALL
- PROP TEMP SHORING WALL
- PROP PAVEMENT
- PROP BRIDGE/APPROACH SLAB
- EXIST 100 YEAR FLOODPLAIN
- PROP ROCK RIPRAP
- PROP CONCRETE RIPRAP

NOTES:

1. SURFACE AREA OF RETAINING WALL IS MEASURED FROM THE TOP TO THE BOTTOM OF SSTR MOD2.
2. MOW STRIP SHALL BE CLASS "B" CONCRETE PER TXDOT ITEM 421. "HYDRAULIC CEMENT CONCRETE."
3. SEE DRAINAGE PLANS FOR MORE INFORMATION.
4. ◒ -DENOTES SOIL BORING LOCATION. SEE BORING LOG DATA SHEETS FOR MORE INFORMATION.
5. THE LOCATIONS OF EXISTING UTILITIES AND STRUCTURES SHOWN ARE BASED ON AVAILABLE SURVEY DATA. THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF ALL EXISTING UTILITIES AND STRUCTURES, AND NOTIFY ENGINEER OF ANY CONFLICTS BEFORE COMMENCING WORK.
6. FOR OTHER DETAILS NOT SHOWN, SEE RETAINING WALL TYPICAL SECTIONS SHEET.
7. SEE TRAFFIC RAIL SINGLE SLOPE TYPE SSTR AND TRAFFIC RAIL SINGLE SLOPE TYPE SSTR MOD2 SHEETS FOR ADDITIONAL DETAILS.



ELEVATION
SCALE 1" = 40′ H
SCALE 1" = 10′ V

1 REVISED 11/14/2024

11/14/2024

STATE OF TEXAS
BRIAN VERWIJST
127741
LICENSED PROFESSIONAL ENGINEER

NO.	DATE	REVISION	APPROVED

HDR Engineering, Inc.
Firm Registration No. F-754
17111 Preston Road, Suite 300
Dallas, Texas 75248
972.960.4400

Texas Department of Transportation

SPUR 399
RETAINING WALL CEM
PLAN AND PROFILE
BEGIN TO STA 14+40

SCALE: 1"=40′-H
1"=10′-V

SHEET 1 OF 2

DESIGN	FED.RD. DIV.NO.	FEDERAL-AID PROJECT NO.		HIGHWAY NO.
JMD	6	SEE TITLE SHEET		SH5, ETC.
GRAPHICS AKS	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK MH	TEXAS	DAL	COLLIN	679
CHECK JMD	CONTROL	SECTION	JOB	
	0047	05	057, ETC.	

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USER: ASRINVASA TIME: 4:02:13 PM SCALE: 1:40
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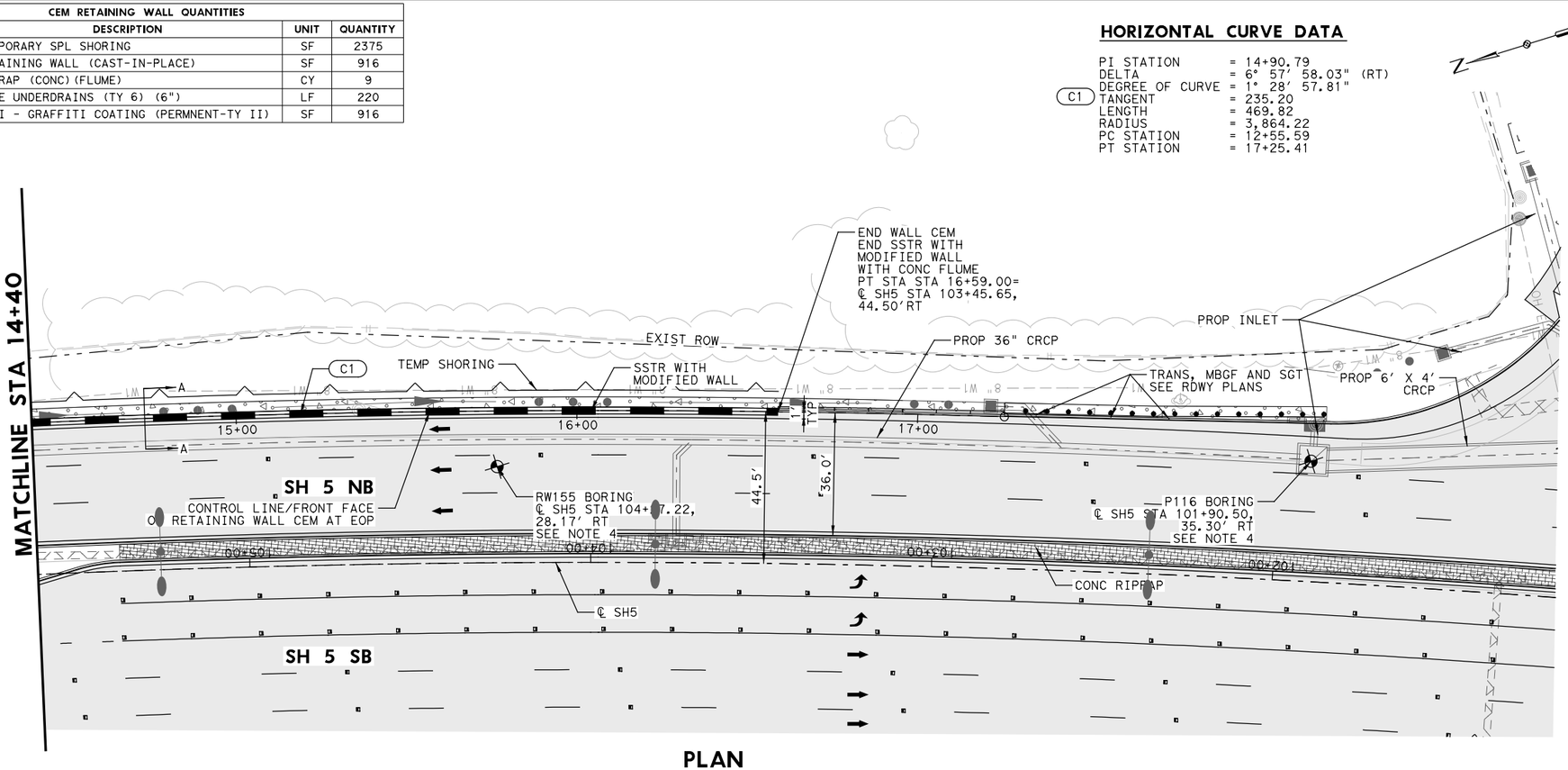
100% PLANS SUBMITTAL

CEM RETAINING WALL QUANTITIES			
ITEM	DESCRIPTION	UNIT	QUANTITY
403-7001	TEMPORARY SPL SHORING	SF	2375
423-7016	RETAINING WALL (CAST-IN-PLACE)	SF	916
432-7012	RIPRAP (CONC)(FLUME)	CY	9
556-7006	PIPE UNDERDRAINS (TY 6) (6")	LF	220
740-7005	ANTI - GRAFFITI COATING (PERMNENT-TY II)	SF	916

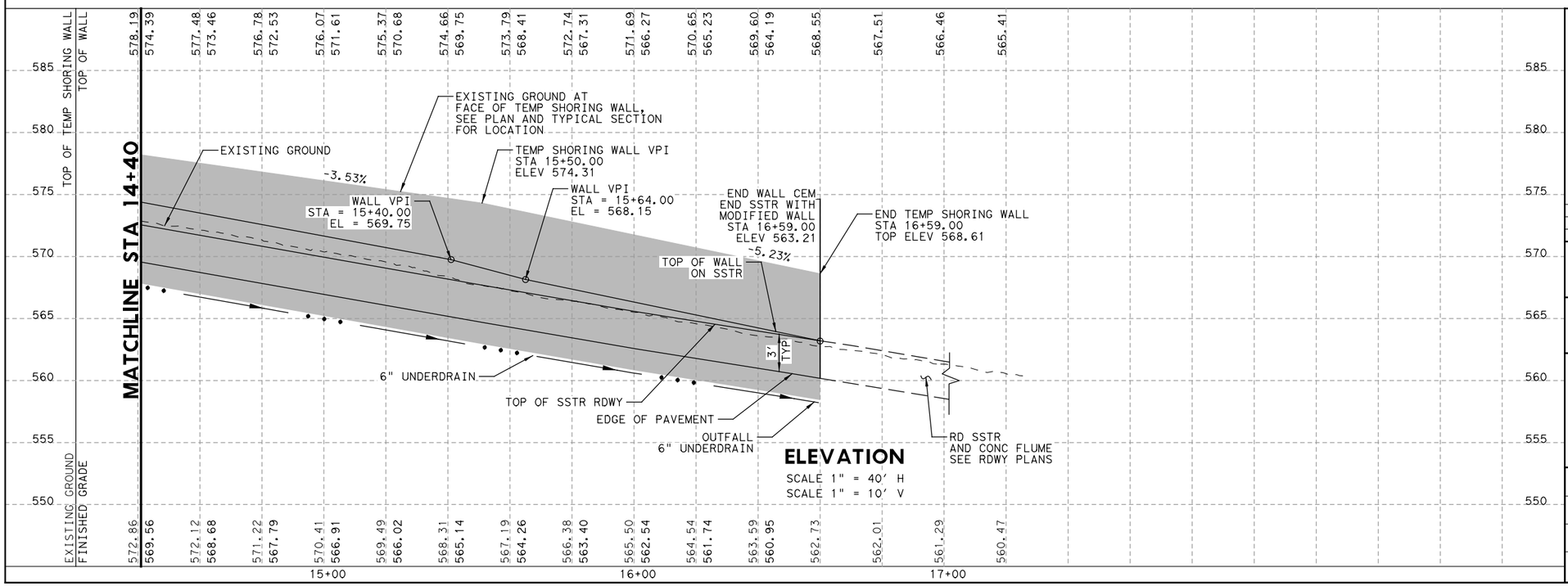
HORIZONTAL CURVE DATA

C1
PI STATION = 14+90.79
DELTA = 6° 57′ 58.03" (RT)
DEGREE OF CURVE = 1° 28′ 57.81"
TANGENT = 235.20
LENGTH = 469.82
RADIUS = 3,864.22
PC STATION = 12+55.59
PT STATION = 17+25.41



PLAN

SCALE 1" = 40′



ELEVATION

SCALE 1" = 40′ H
SCALE 1" = 10′ V

0 20 40 60 80
HORIZ. SCALE IN FEET
0 5 10 15 20
VERT. SCALE IN FEET

LEGEND

- PROPOSED TRAFFIC FLOW
- EXIST ROW
- PROP ROW
- PROP RETAINING WALL
- PROP TEMP SHORING WALL
- PROP PAVEMENT
- PROP BRIDGE/APPROACH SLAB
- EXIST 100 YEAR FLOODPLAIN
- PROP ROCK RIPRAP
- PROP CONCRETE RIPRAP

NOTES:

1. SEE SHEET 1 OF 2 FOR NOTES

1 REVISED 11/14/2024

11/14/2024

STATE OF TEXAS
BRIAN VERWIJST
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NO.	DATE	REVISION	APPROVED

HDR Engineering, Inc.
Firm Registration No. F-754
17111 Preston Road, Suite 300
Dallas, Texas 75248
972.960.4400

SPUR 399
RETAINING WALL CEM
PLAN AND PROFILE
STA 14+40 TO END

SCALE: 1"=40′-H
1"=10′-V

SHEET 2 OF 2

DESIGN	FED.RD. DIV.NO.	FEDERAL-AID PROJECT NO.		HIGHWAY NO.
AKS	6	SEE TITLE SHEET		SH5, ETC.
GRAPHICS AKS	STATE	DISTRICT	COUNTY	SHEET/MD NO.
CHECK MH	TEXAS	DAL	COLLIN	680
CHECK JMD	CONTROL	SECTION	JOB	
	0047	05	057, ETC.	

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