

SUBJECT: PLANS AND PROPOSAL ADDENDUMS

PROJECT: C 1986-1-64

CONTROL: 1986-01-064

COUNTY: MONTGOMERY

LETTING: 06/06/2024

REFERENCE NO: 0524

**PROPOSAL ADDENDUMS**

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PROPOSAL COVER

BID INSERTS (SH. NO.: ALL )

GENERAL NOTES (SH. NO.: I )

SPEC LIST (SH. NO.: )

SPECIAL PROVISIONS: )

ADDED:

DELETED:

SPECIAL SPECIFICATIONS:

ADDED:

DELETED:

OTHER: PLAN SHEET AND OTHER CHANGES

DESCRIPTION OF ABOVE CHANGES  
(INCLUDING PLANS SHEET CHANGES)

\*\*\*\*\*BID INSERTS\*\*\*\*\*

REVISED QUANTITIES FOR THE FOLLOWING BID ITEMS: 403-6001,  
462-6007, AND 496-6008

\*\*\*\*\*GENERAL NOTES\*\*\*\*\*

SHEET I: REVISED ROAD-USER COST LIQUIDATED DAMAGES AMOUNT

\*\*\*\*\*PLAN SHEETS\*\*\*\*\*

SHEET 5D (GENERAL NOTES): REVISED ROAD-USER COST LIQUIDATED  
DAMAGES AMOUNT

SHEET 6 (ESTIMATE & QUANTITY SHEET): REVISED QUANTITIES

SHEET 6A (ESTIMATE & QUANTITY SHEET): REVISED QUANTITY

SHEET 10 (SUMMARY OF DRAINAGE QUANTITIES): REVISED SHEET

DESCRIPTION OF ABOVE CHANGES  
(INCLUDING PLANS SHEET CHANGES)

(CONTINUED)

SHEET 14 (FM 1314 CONSTRUCTION NARRATIVE): REVISED SHEET

SHEET 129 (NB DRAINAGE PLAN & PROFILE): REVISED SHEET

SHEET 140 (SB DRAINAGE PLAN & PROFILE): REVISED SHEET

County: Montgomery

Control: 1986-01-064

Highway: FM 1314

Conduct any tree removal outside of the migratory bird nesting season. If this is not possible due to scheduling, then exercise caution to remove only those trees with no active nests. Do not destroy nests on structures or in trees within the project limits during the nesting / breeding season.

Take measures to prevent the building of nests on any structures or trees within the project limits throughout the duration of the construction if work / removal will be performed during the nesting / breeding season. This can be accomplished by application of bird repellent gel, netting by hand every 3 to 4 days, or any other non-threatening method approved by the Houston District Environmental Section. Obtain this approval well in advance of the planned use. Contact the Houston District Environmental Section at 713-802-5244. The cost of this work is subsidiary to the various bid items.

No significant traffic generator events have been identified.

#### Item 8: Prosecution and Progress

The road-user cost liquidated damages are \$ 5,823 per day. After the project is substantially complete, the liquidated damages become those based on contract administration costs.

The Department will not adjust the number of days for the project and milestones, if any, due to differences in opinion regarding any assumptions made in the preparation of the schedule or for errors, omissions, or discrepancies found in the time determination schedule.

Working days will be computed and charged based on a 5-day workweek in accordance with Section 8.3.1.1.

The maximum number of days the time charges on this contract may be suspended due to contractor mobilization, and material fabrication/accumulation or processing delays is 90 days. The Engineer and the Contractor may mutually agree, in writing, to decrease this maximum number of days.

The Lane Closure Assessment Fee is \$ 600. This fee applies to the Contractor for closures or obstructions that overlap into restricted hour traffic for each hour or portion thereof, per lane, regardless of the length of lane closure or obstruction. For Restricted Hours subject to Lane Assessment Fee refer to the Item, "Barricades, Signs, and Traffic Handling." The time increment for the Lane Closure Assessment fee for this project is one hour.

#### Item 100: Preparing Right of Way

Obtain a City of Houston plumbing permit and a demolishing permit or removing permit before demolishing or removing existing houses or commercial buildings.

Clean existing ditches under fill sections of undesirable materials including grass, muck, and trash. Perform this work in accordance with the Construction section of the Item, "Preparing Right of Way." This work is subsidiary to this bid Item.

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The Item, "Preparing Right of Way" will be measured for payment only in those designated areas shown on the plans. Preparing right of way necessary to perform construction that is outside designated areas is subsidiary to this bid Item.

Remove abandoned utilities that are in conflict with the new utilities, at no expense to the Department.

Reestablish and maintain right of way stakes after completing the right of way preparation activities and until the new utilities are in place.

Remove and assume ownership of the existing ground mounted signs within the limits of roadway construction unless otherwise noted or directed. This work is subsidiary to the Item, "Preparing Right of Way."

#### Item 104: Removing Concrete

Removing concrete curb is paid as a separate bid item if the existing pavement on which it rests is not removed at the same time.

#### Item 105: Removing Treated and Untreated Base and Asphalt Pavement

Removing curb on cement-treated and untreated base or on cement treatment being removed at the same time is subsidiary to this bid Item.

Obtain a secured site for the stockpile of the treated material to be salvaged from this project. Haul and stockpile 10,000 CY to 901 N. FM 3083 E. Conroe, TX 77303. This work is subsidiary to this bid Item.

#### Item 104: Removing Concrete

#### Item 105: Removing Treated and Untreated Base and Asphalt Pavement

#### Item 305: Salvaging, Hauling, and Stockpiling Reclaimable Asphalt Pavement

Case 2 - ACP over cement or lime treatment  
Removing the Asphalt Concrete Pavement (ACP) material is paid under the Item, "Salvaging, Hauling, and Stockpiling Reclaimable Asphalt Pavement."

Removing the cement or lime treatment is paid under the Item, "Removing Treated and Untreated Base and Asphalt Pavement."

Remove the ACP separately from the cement or lime treatment. Make the removed depth as uniform as possible during each removal pass if the pavement depth being removed is composed of different asphalt layers. Unless otherwise approved, stockpile the RAP of differing types of quality separately by its intended use such as for the asphalt treatment, cement treatment, lime treatment, or asphalt concrete pavement. Break, crush, or mill the stockpiled materials so that 100 percent pass the 2-in. sieve.



# Estimate & Quantity Sheet

CONTROLLING PROJECT ID 1986-01-064

DISTRICT Houston  
HIGHWAY FM 1314

COUNTY Montgomery

CONTROL SECTION JOB				1986-01-064		TOTAL EST.	TOTAL FINAL
PROJECT ID				A00126152			
COUNTY				Montgomery			
HIGHWAY				FM 1314			
ALT	BID CODE	DESCRIPTION	UNIT	EST.	FINAL		
	100-6002	PREPARING ROW	STA	116.000		116.000	
	104-6011	REMOVING CONC (MEDIANS)	SY	440.000		440.000	
	104-6017	REMOVING CONC (DRIVEWAYS)	SY	2,899.000		2,899.000	
	104-6021	REMOVING CONC (CURB)	LF	8,973.000		8,973.000	
	104-6025	REMOVE CONC (WINGWALL)	CY	69.000		69.000	
	105-6106	REMOVING STAB BASE AND ASPH PAV(6"-9")	SY	37,710.000		37,710.000	
	110-6001	EXCAVATION (ROADWAY)	CY	23,077.000		23,077.000	
	132-6006	EMBANKMENT (FINAL)(DENS CONT)(TY C)	CY	13,972.000		13,972.000	
	162-6002	BLOCK SODDING	SY	73,197.000		73,197.000	
	166-6001	FERTILIZER	AC	15.330		15.330	
	168-6001	VEGETATIVE WATERING	MG	1,839.000		1,839.000	
	260-6006	LIME TRT (EXST MATL) (6")	SY	19,296.000		19,296.000	
	260-6012	LIME(HYD,COM OR QK)(SLRY)OR QK(DRY)	TON	261.000		261.000	
	275-6001	CEMENT	TON	261.000		261.000	
	275-6002	CEMENT TREAT (EXIST MATL) (6")	SY	19,296.000		19,296.000	
	276-6224	CEM TRT(PLNT MX) (CL N)(TY E)(GR 4)(6")	SY	38,593.000		38,593.000	
	292-6017	ASPHALT STAB BASE (GR 4)(PG 64)	TON	2,073.000		2,073.000	
	305-6005	SALV, HAUL & STKPL RCL APH PV (6 TO 8")	SY	4,921.000		4,921.000	
	305-6012	SLV, HAUL & STKPL RCL APH PV (6 TO 12")	SY	37,710.000		37,710.000	
	360-6004	CONC PVMT (CONT REINF - CRCP) (10")	SY	37,697.000		37,697.000	
	360-6043	CONC PVMT (CONT REINF)(FAST TRK)(13")	SY	13,967.000		13,967.000	
	400-6005	CEM STABIL BKFL	CY	17,062.000		17,062.000	
	400-6007	CUT & RESTORE CONC PAVING	SY	6.000		6.000	
	400-6008	CUT & RESTORE ASPH PAVING	SY	66.000		66.000	
	400-6009	CEMENT STAB BACKFILL (INLET OR MH)	CY	905.000		905.000	
	402-6001	TRENCH EXCAVATION PROTECTION	LF	16,442.000		16,442.000	
	403-6001	TEMPORARY SPL SHORING	SF	5,200.000		5,200.000	
	423-6008	RETAINING WALL (CAST - IN - PLACE)	SF	974.000		974.000	
	432-6003	RIPRAP (CONC)(6 IN)	CY	138.000		138.000	
	432-6010	RIPRAP (CONC)(CL B)(5 IN)	CY	2,615.000		2,615.000	
	462-6003	CONC BOX CULV (4 FT X 2 FT)	LF	31.000		31.000	
	462-6004	CONC BOX CULV (4 FT X 3 FT)	LF	1,468.000		1,468.000	
	462-6005	CONC BOX CULV (4 FT X 4 FT)	LF	120.000		120.000	
	462-6006	CONC BOX CULV (5 FT X 2 FT)	LF	70.000		70.000	
	462-6007	CONC BOX CULV (5 FT X 3 FT)	LF	2,455.000		2,455.000	
	462-6011	CONC BOX CULV (6 FT X 4 FT)	LF	6,648.000		6,648.000	
	462-6020	CONC BOX CULV (8 FT X 5 FT)	LF	112.000		112.000	



5/28/2024 REVISED QUANTITIES

DISTRICT	COUNTY	CCSJ	SHEET
Houston	Montgomery	1986-01-064	6



# Estimate & Quantity Sheet

CONTROLLING PROJECT ID 1986-01-064

DISTRICT Houston  
HIGHWAY FM 1314

COUNTY Montgomery

CONTROL SECTION JOB				1986-01-064		TOTAL EST.	TOTAL FINAL
PROJECT ID				A00126152			
COUNTY				Montgomery			
HIGHWAY				FM 1314			
ALT	BID CODE	DESCRIPTION	UNIT	EST.	FINAL		
	462-6041	CONC BOX CULV (12 FT X 6 FT)	LF	1,436.000		1,436.000	
	462-6176	CONC BOX CULV (12 FT X 5 FT)	LF	4,050.000		4,050.000	
	464-6003	RC PIPE (CL III)(18 IN)	LF	733.000		733.000	
	464-6005	RC PIPE (CL III)(24 IN)	LF	207.000		207.000	
	465-6166	INLET (COMPL)(TY AAD)	EA	12.000		12.000	
	465-6173	MANH (COMPL)(TY A)	EA	1.000		1.000	
	465-6225	JCT BOX (COMPL)(SPL)	EA	3.000		3.000	
	465-6282	INLET (STAGE II)(TY AD) (SPECIAL)	EA	53.000		53.000	
	465-6284	MANHOLE (COMPL)(SPECIAL)	EA	6.000		6.000	
	466-6097	HEADWALL (CH - PW - 0) (DIA= 24 IN)	EA	2.000		2.000	
	466-6179	WINGWALL (PW - 1) (HW=4 FT)	EA	1.000		1.000	
	466-6180	WINGWALL (PW - 1) (HW=5 FT)	EA	2.000		2.000	
	466-6183	WINGWALL (PW - 1) (HW=8 FT)	EA	1.000		1.000	
	467-6134	SET (TY I)(S= 4 FT)(HW= 2 FT)(6:1) (P)	EA	2.000		2.000	
	467-6142	SET (TY I)(S= 4 FT)(HW= 3 FT)(6:1) (P)	EA	4.000		4.000	
	467-6168	SET (TY I)(S= 5 FT)(HW= 2 FT)(6:1) (P)	EA	2.000		2.000	
	467-6174	SET (TY I)(S= 5 FT)(HW= 3 FT)(6:1) (P)	EA	7.000		7.000	
	467-6395	SET (TY II) (24 IN) (RCP) (6: 1) (P)	EA	4.000		4.000	
	476-6077	JACK BOR TUN BOX CULV (6 FT X 3 FT)	LF	410.000		410.000	
	481-6016	PIPE (PVC) (SCH 40) (12 IN)	LF	72.000		72.000	
	481-6033	PIPE (MISC) (6 IN)	LF	129.000		129.000	
	496-6004	REMOV STR (SET)	EA	159.000		159.000	
	496-6006	REMOV STR (HEADWALL)	EA	2.000		2.000	
	496-6007	REMOV STR (PIPE)	LF	2,846.000		2,846.000	
	496-6008	REMOV STR (BOX CULVERT)	LF	887.000		887.000	
	500-6001	MOBILIZATION	LS	1.000		1.000	
	502-6001	BARRICADES, SIGNS AND TRAFFIC HANDLING	MO	39.000		39.000	
	506-6001	ROCK FILTER DAMS (INSTALL) (TY 1)	LF	204.000		204.000	
	506-6011	ROCK FILTER DAMS (REMOVE)	LF	204.000		204.000	
	506-6020	CONSTRUCTION EXITS (INSTALL) (TY 1)	SY	222.000		222.000	
	506-6024	CONSTRUCTION EXITS (REMOVE)	SY	222.000		222.000	
	506-6038	TEMP SEDMT CONT FENCE (INSTALL)	LF	7,895.000		7,895.000	
	506-6039	TEMP SEDMT CONT FENCE (REMOVE)	LF	7,895.000		7,895.000	
	508-6001	CONSTRUCTING DETOURS	SY	10,237.000		10,237.000	
	512-6010	PORT CTB (FUR & INST)(LOW PROF)(TY 2)	LF	740.000		740.000	
	512-6021	PORT CTB (DES SOURCE)(LOW PROF)(TY 1)	LF	3,260.000		3,260.000	
	512-6033	PORT CTB (MOVE)(LOW PROF)(TY 1)	LF	3,260.000		3,260.000	

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1 5/28/2024 REVISED QUANTITY



DISTRICT	COUNTY	CCSJ	SHEET
Houston	Montgomery	1986-01-064	6A

SUMMARY OF DRAINAGE QUANTITIES

LOCATION	400	400	400	400	400	402	403	432	465	462	462	462	462	462	462	462	462	464	465	
	6002	6003	6005	6008	6009	6001	6001	6010	6225	6003	6004	6005	6006	6007	6011	6020	6041	6176	6005	6166
	STRUCT EXCAV (BOX) *	STRUCT EXCAV (PIPE) *	CEM STABIL BKFL	CUT & RESTORE ASPH PAVING	CEMENT STAB BACKFILL (INLET OR MH)	TRENCH EXCAVATION PROTECTION	TEMPORARY SPL SHORING	RIPRAP (CONC) (CL B) (5 IN)	JCT BOX (COMPL) (SPL)	CONC BOX CULV (4 FT X 2 FT)	CONC BOX CULV (4 FT X 3 FT)	CONC BOX CULV (4 FT X 4 FT)	CONC BOX CULV (5 FT X 2 FT)	CONC BOX CULV (5 FT X 3 FT)	CONC BOX CULV (6 FT X 4 FT)	CONC BOX CULV (8 FT X 5 FT)	CONC BOX CULV (12 FT X 6 FT)	CONC BOX CULV (12 FT X 5 FT)	RC PIPE (CL III) (24 IN)	INLET (COMPL) (TY AAD)
	CY	CY	CY	SY	CY	LF	SF	CY	EA	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	EA
STA 468+00 TO 585+00																				
FM1314 NB																				
SHEET 1 OF 11		15	13					80											27	
SHEET 2 OF 11	43		20		26	30		462			30									2
SHEET 3 OF 11	3037	25	818		128	1200		1			1200								45	
SHEET 4 OF 11	3731	89	1077		89	1200		150			170				1030				24	2
SHEET 5 OF 11	4278		1070		38	1200									1200					3
SHEET 6 OF 11	2149		663		51	814								414	400					1
SHEET 7 OF 11	2311		889		51	1200		210						1200						
SHEET 8 OF 11	1067		444	66	13	600								600						1
SHEET 9 OF 11	31		18					192		31										
SHEET 10 OF 11								462												
SHEET 11 OF 11		35	20								31									
FM1314 SB																				
SHEET 1 OF 11		30	26					160											54	
SHEET 2 OF 11	78	0	37		26	13		462			38				13					2
SHEET 3 OF 11	4196	13	1070		102	1214		1							1200				14	
SHEET 4 OF 11	3711		1099		51	1243		260							1200				43	
SHEET 5 OF 11	3911		1070		38	1200									1200					
SHEET 6 OF 11	1522		1610		38	1317			1						405	112			800	
SHEET 7 OF 11	6542		1689		51	1200													1200	
SHEET 8 OF 11	6258		1689		64	1200													1200	
SHEET 9 OF 11	7457		1670		77	1190	4200	105	2								136		850	
SHEET 10 OF 11	12974		1921		38	1401							70		131		1200			
SHEET 11 OF 11	1179		147		26	220		1000	70				120		110		100			1
PROJECT TOTALS	64475	208	17062	66	905	16442	5200	2615	3	31	1468	120	70	2455	6648	112	1436	4050	207	12

SHEET REVISED 05/23/2024

SUMMARY OF DRAINAGE QUANTITIES

LOCATION	465	465	466	466	466	466	467	467	467	467	476	481	496	496	496	496	
	6282	6284	6097	6179	6180	6183	6134	6142	6168	6174	6395	6077	6016	6004	6006	6007	6008
	INLET (STAGE II) (TY AD) (SPECIAL)	MANHOLE (COMPL) (SPECIAL)	HEADWALL (CH - PW - 0) (DIA= 24 IN)	WINGWALL (PW - 1) (HW=4 FT)	WINGWALL (PW - 1) (HW=5 FT)	WINGWALL (PW - 1) (HW=8 FT)	SET (TY I) (S= 4 FT) (HW= 2 FT) (6:1) (P)	SET (TY I) (S= 4 FT) (HW= 3 FT) (6:1) (P)	SET (TY I) (S= 5 FT) (HW= 2 FT) (6:1) (P)	SET (TY I) (S= 5 FT) (HW= 3 FT) (6:1) (P)	SET (TY II) (24 IN) (RCP) (6:1) (P)	JACK BOR TUN BOX CULV (6 FT X 3 FT)	PIPE (PVC) (SCH 40) (12 IN)	REMOV STR (SET)	REMOV STR (HEADWALL)	REMOV STR (PIPE)	REMOV STR (BOX CULVERT)
	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA
STA 468+00 TO 585+00																	
FM1314 NB																	
SHEET 1 OF 11											2			2		26	
SHEET 2 OF 11				1										1			
SHEET 3 OF 11	10											50		12		525	
SHEET 4 OF 11	5		1											11		182	10
SHEET 5 OF 11												22		12		230	
SHEET 6 OF 11	3													8		56	66
SHEET 7 OF 11	4													10			188
SHEET 8 OF 11																	
SHEET 9 OF 11					1			2						2	1	30	16
SHEET 10 OF 11																	
SHEET 11 OF 11										2				2		30	
FM1314 SB																	
SHEET 1 OF 11											2						
SHEET 2 OF 11					1					2				1			
SHEET 3 OF 11														30		804	
SHEET 4 OF 11	8													18		426	
SHEET 5 OF 11	4		1											12		178	
SHEET 6 OF 11	3													6			118
SHEET 7 OF 11	4													7		160	
SHEET 8 OF 11	5													9			170
SHEET 9 OF 11	4	2					1				410			8	1	199	209
SHEET 10 OF 11		3							2	6				8			
SHEET 11 OF 11		1								1							
PROJECT TOTALS	53	6	2	1	2	1	2	4	2	7	4	410	72	159	2	2846	887

\* FOR CONTRACTOR'S INFORMATION ONLY. STRUCTURAL EXCAVATION FOR PIPE AND BOX WILL NOT BE PAID FOR DIRECTLY BUT ARE SUBSIDIARY TO PERTINENT ITEMS.

**OMEGA ENGINEERS, INC.**  
 16360 PARK TEN PLACE, Ste. #325  
 HOUSTON TEXAS, 77084  
 OMEGAENGINEERS.COM  
 TX PE Firm Reg. No. F-2147  
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FM 1314

SUMMARY OF DRAINAGE QUANTITIES

SHEET 1 OF 1

DSN#	YK	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.	SHEET NO.
CK#	SF	6	SEE COVER SHEET	10
DRN#	MS	STATE	DIST.	COUNTY
APPV#	BV	TEXAS	HOU	MONTGOMERY
CONT.	SECT.	JOB	HIGHWAY NO.	
		1986	01 064	FM 1314

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TRAFFIC CONTROL PLAN NOTES AND OBJECTIVES

1. MINIMIZE IMPACT TO FM 1314 TRAFFIC.
2. MAINTAIN ALL MOVEMENTS OR PROVIDE SHORT TERM DETOURS IN ALL PHASES. MUST BE APPROVED BY THE ENGINEER.
3. ENSURE ACCESS TO ADJACENT PROPERTY.
4. SET UP TRAFFIC CONTROL FOR ALL PHASES PER TRAFFIC CONTROL STANDARD SHEETS AND/OR TEXAS MUTCD AND/OR AS DIRECTED BY THE ENGINEER.
5. CONTRACTOR SHALL BEGIN PLACING STORM SEWER AT 585+00.00 AND PROGRESS TOWARDS THE NORTH.
6. CONTRACTOR IS RESTRICTED FROM WORKING IN ANY AREAS WHERE UTILITY CONFLICTS HAVE NOT BEEN RESOLVED.
7. SCHEDULE ANY WORK NEAR SAN JACINTO ELEMENTARY SCHOOL (WITHIN THE SCHOOL ZONE) SO THAT THERE IS NO IMPACT TO SCHOOL ACTIVITIES.

PHASE 1 - PLACE SILT FENCE, INSTALL PUMP STATION, INSTALL TRUNK LINE & STORM SEWER, REMOVE RAISED MEDIAN AT SH 242.  
 PHASE 2 - CONSTRUCT FAST TRACK PAVEMENT AND TEMPORARY PAVEMENT NEAR BEGINNING OF PROJECT AT SH 242.  
 PHASE 3 - CONSTRUCT FM 1314 SOUTHBOUND LANES.  
 PHASE 4 - CONSTRUCT FM 1314 NORTHBOUND LANES  
 PHASE 5 - REMOVE TEMPORARY PAVEMENT, PLACE FINAL PAVEMENT MARKINGS, CONSTRUCT RAISED MEDIAN AT SH 242 INTERSECTION,  
 PLACE DRAINAGE RIP RAP, PLACE SIDEWALK AND SHARED USE PATH, PLACE BLOCK SOD, PLACE SIGNS, AND FINAL CLEANUP.

**PHASE 1 STEP 1**

PREPARE RIGHT OF WAY  
 PLACE SILT FENCE AND ROCK FILTER DAMS ALONG DITCH THROUGHOUT PROJECT.  
 INSTALL PUMP STATION AT SH 242.  
 PLACE CONSTRUCTION EXITS.

**PHASE 1 STEP 2**

REMOVE AND REPLACE EXISTING RETAINING WALL AT ARTAVIA CHANNEL OUTFALL.  
 PLACE 4'X4' REINFORCED CONCRETE BOX.  
 REMOVE AND REPLACE EXISTING SET'S AT ARTAVIA CHANNEL OUTFALL.  
 REMOVE TRUNK LINE DRAINAGE STRUCTURES ALONG SOUTHBOUND SIDE FROM STA. 525+00 TO STA. 584+00.  
 INSTALL STORM SEWER TRUNKLINE ALONG SOUTHBOUND SIDE FROM STA. 525+00 TO STA. 584+00.  
 INSTALL INLETS FOR TRUNK LINE ALONG SOUTHBOUND SIDE FROM STA. 525+00 TO STA. 584+00.  
 INSTALL STORM SEWER ALONG NORTHBOUND SIDE AND LATERAL AT SAN JACINTO ELEMENTARY FROM STA. 528+80 TO STA. 550+00 (LATERAL LOCATION).  
 REMOVE AND REPLACE DRIVEWAYS AND INTERSECTIONS ALONG NORTHBOUND AND SOUTHBOUND SIDES FROM STA. 525+00 TO STA. 584+00.  
 \*UTILIZE CUT AND RESTORE ASPHALT PAVEMENT WHEN CONSTRUCTING TRUNK LINE AND STORM SEWERS ACROSS DRIVEWAYS AND INTERSECTIONS TO MAINTAIN ACCESS

**PHASE 1 STEP 3**

REMOVE DRAINAGE STRUCTURES FOR SOUTHBOUND SIDE FROM STA. 473+07.66 TO STA. 525+00.  
 INSTALL STORM SEWER FOR SOUTHBOUND SIDE FROM STA. 473+07.66 TO STA. 525+24.00  
 PLACE INLETS FOR SOUTHBOUND SIDE FROM STA. 473+07.66 TO STA. 525+24.00.  
 REMOVE RAISED MEDIAN AT SH 242.  
 \*UTILIZE CUT AND RESTORE ASPHALT PAVEMENT WHEN CONSTRUCTING TRUNK LINE AND STORM SEWERS ACROSS DRIVEWAYS AND INTERSECTIONS TO MAINTAIN ACCESS

**PHASE 2 STEP 1**

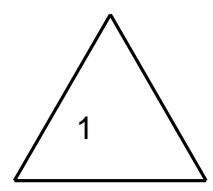
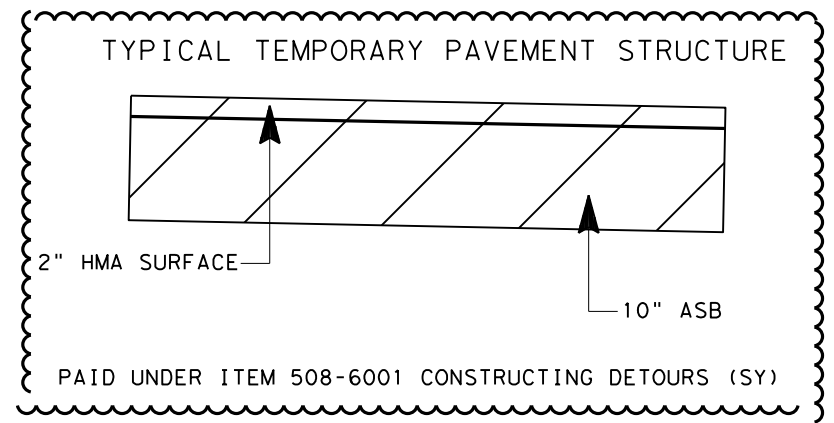
REMOVE CURB ON SOUTHBOUND SIDE AS NEEDED AT BEGINNING OF PROJECT NEAR SH 242 FROM STA. 470+00 TO STA. 489+04.67  
 REMOVE EXISTING ASPHALT PAVEMENT AS NEEDED ALONG SOUTHBOUND SIDE OF BEGINNING OF PROJECT NEAR SH 242 FROM STA. 470+00 TO STA. 489+04.67  
 PLACE FAST TRACK PAVEMENT ALONG SOUTHBOUND SIDE OF BEGINNING OF PROJECT NEAR SH 242 FROM STA. 470+00 TO STA. 489+04.67  
 PLACE TEMPORARY PAVEMENT ON SOUTHBOUND SIDE OF BEGINNING OF PROJECT NEAR SH 242 FROM STA. 470+00 TO STA. 475+26.00

**PHASE 2 STEP 2**

REMOVE CURB ON NORTHBOUND SIDE AS NEEDED OF BEGINNING OF PROJECT NEAR SH 242 FROM STA. 470+00 TO STA. 489+04.67  
 REMOVE EXISTING ASPHALT PAVEMENT AS NEEDED ALONG NORTHBOUND SIDE OF BEGINNING OF PROJECT NEAR SH 242 FROM STA. 470+00 TO STA. 473+08.00  
 PLACE FAST TRACK PAVEMENT ALONG NORTHBOUND SIDE OF BEGINNING OF PROJECT NEAR SH 242 FROM STA. 470+00 TO STA. 473+08.00  
 PLACE TEMPORARY PAVEMENT ON NORTHBOUND SIDE OF BEGINNING OF PROJECT NEAR SH 242 FROM STA. 471+36.00 TO STA. 489+04.67  
 CONSTRUCT FAST TRACK DRIVEWAY AT STA. 471+00 ON NORTHBOUND SIDE

**PHASE 2 STEP 3**

REMOVE REMAINING EXISTING ASPHALT PAVEMENT FROM STATION 470+00.00 TO STA. 473+08.00.  
 PLACE FAST TRACK PAVEMENT IN REMAINING MIDDLE AREA BETWEEN STA. 470+00.00 TO STA. 473+08.00  
 REMOVE CURB ON NORTHBOUND SIDE FROM STA. 507+91.00 TO STA. 528+49.97  
 PLACE TEMPORARY PAVEMENT ON NORTHBOUND SIDE FROM STA. 507+91.00 TO STA. 528+49.97



SHEET REVISED  
MAY 22, 2024

**PHASE 3**

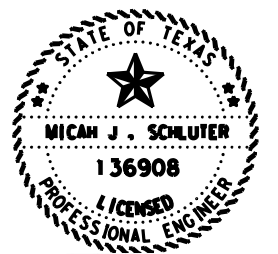
PLACE LOW PROFILE CONCRETE BARRIER ALONG SOUTHBOUND SIDE FROM STA. 473+08.00 TO STA. 525+24.00  
 EXCAVATE AND EMBANK ALONG SOUTHBOUND SIDE AS NEEDED FROM STA. 473+08.00 TO STA. 525+24.00  
 REMOVE CURB ALONG SOUTHBOUND SIDE FROM STA. 473+08.00 TO STA. 525+24.00  
 REMOVE EXISTING ASPHALT PAVEMENT ALONG SOUTHBOUND SIDE FROM STA. 473+08.00 TO STA. 525+24.00  
 CONSTRUCT FAST TRACK DRIVEWAYS ALONG SOUTHBOUND ROADWAY FROM STA. 477+30.69 TO STA. 525+04.00  
 PLACE CEMENT/LIME TREATED SUBGRADE, CEMENT TREATED BASE, ASPHALT BONDBREAKER, AND CONCRETE PAVEMENT ALONG SOUTHBOUND ROADWAY FROM STA. 473+08.00 TO STA. 525+24.00  
 PLACE TEMPORARY PAVEMENT ALONG SOUTHBOUND SIDE FROM STA. 475+25.98 TO STA. 527+11.67

**PHASE 4**

REMOVE TEMPORARY PAVEMENT ALONG NORTHBOUND SIDE FROM STA. 471+36.00 TO STA. 489+04.67 AND STA. 507+91.00 TO STA. 528+49.97  
 PLACE LOW PROFILE CONCRETE BARRIER ALONG NORTHBOUND SIDE FROM STA. 473+08.00 TO STA. 525+24.00  
 EXCAVATE AND EMBANK ALONG NORTHBOUND SIDE AS NEEDED FROM STA. 473+08.00 TO STA. 525+24.00  
 REMOVE CURB ALONG NORTHBOUND SIDE FROM STA. 489+04.67 TO STA. 507+91.00  
 REMOVE EXISTING ASPHALT PAVEMENT ALONG NORTHBOUND SIDE FROM STA. 473+07.66 TO STA. 525+24.00  
 REMOVE DRAINAGE STRUCTURES FOR NORTHBOUND SIDE FROM STA. 473+07.66 TO STA. 525+24.00  
 INSTALL STORM SEWER FOR NORTHBOUND SIDE FROM STA. 473+07.66 TO STA. 525+24.00  
 PLACE INLETS FOR NORTHBOUND SIDE FROM STA. 473+07.66 TO STA. 525+24.00  
 CONSTRUCT FAST TRACK DRIVEWAYS ALONG NORTHBOUND ROADWAY FROM STA. 485+10.71 TO STA. 522+26.55  
 PLACE CEMENT/LIME TREATED SUBGRADE, CEMENT TREATED BASE, ASPHALT BONDBREAKER, AND CONCRETE PAVEMENT ALONG NORTHBOUND ROADWAY FROM STA. 473+08.00 TO STA. 525+24.00

**PHASE 5**

REMOVE REMAINING TEMPORARY PAVEMENT ALONG SOUTHBOUND ROAD  
 PLACE FINAL PAVEMENT MARKINGS  
 CONSTRUCT PROPOSED RAISED MEDIAN AND CONCRETE CURB AROUND RAISED MEDIAN. PAINT CURB WITH YELLOW PAINT.  
 PLACE 5 INCH RIP RAP FOR DRAINAGE. (SEE DRAINAGE SHEETS FOR AREAS)  
 PLACE SIDEWALK AND SHARED USE PATHS ALONG PROJECT.  
 PLACE BLOCK SOD ALONG DITCH AREAS SHOWN ON SW3P SHEETS AND WATER EACH SECTION FOR 20 DAYS.  
 PLACE SIGNS.  
 FINAL CLEANUP



*Micah J. Schluter, P.E.*

05.23.24

**FM 1314  
CONSTRUCTION  
NARRATIVE**

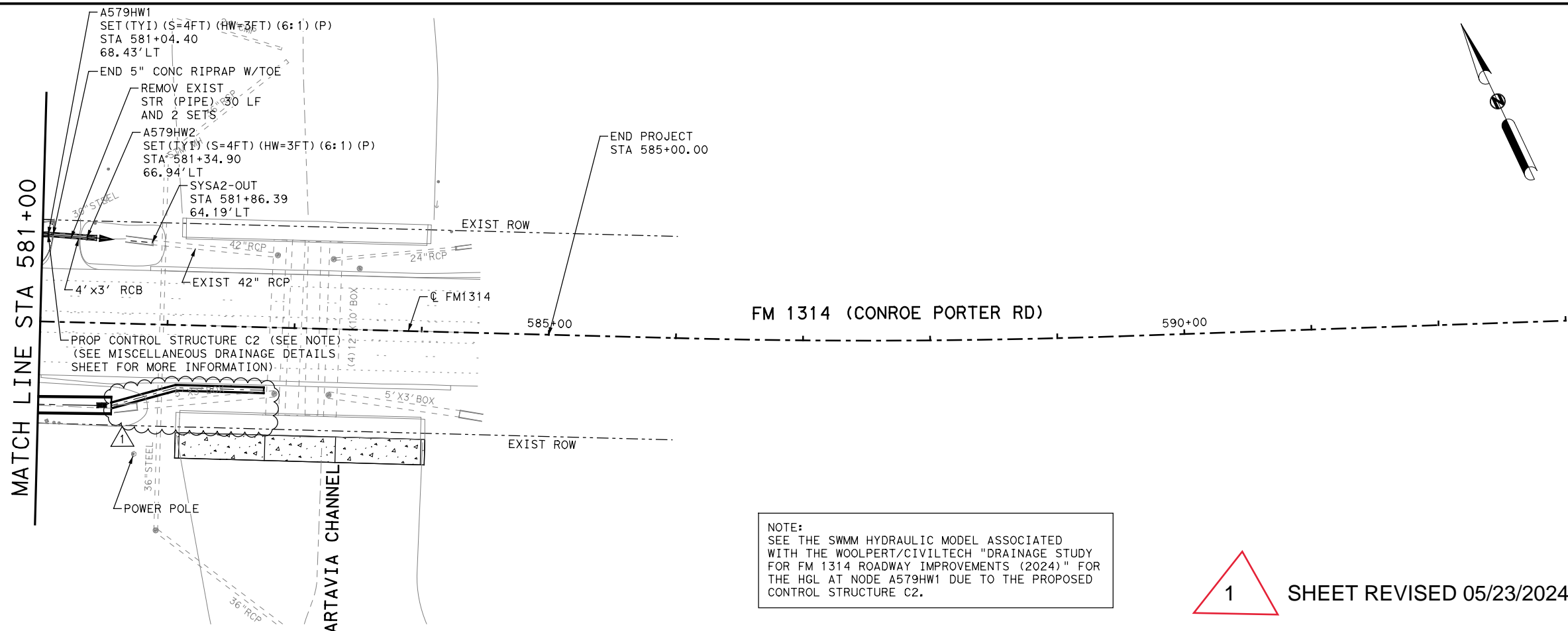
NOTE:  
24" TEMPORARY CMP WILL BE PLACED UNDER DRIVEWAYS TO ENSURE POSITIVE DRAINAGE.  
THIS IS SUBSIDIARY TO THE VARIOUS BID ITEMS.

INLETS PLACED IN PHASE 1 WILL BE COVERED WITH A STEEL PLATE SO THAT THE CONSTRUCTION DETOUR DOES NOT INTERFERE HARM ANY DRAINAGE STRUCTURES.  
THIS IS SUBSIDIARY TO ITEM 512 CONSTRUCTION DETOURS.

SHEET 1 OF 1



CONT	SECT	JOB	HIGHWAY
1986	01	064	FM1314
DIST	COUNTY		SHEET NO.
HOU	MONTGOMERY		14

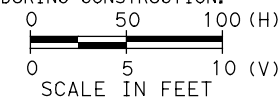


**LEGEND**

- OR ○ PROP MANHOLE
- OR □ PROP GRATE INLET
- ▭ PROP SET
- ← PROP C DITCH
- EXISTING STORM SEWER
- === PROP STORM SEWER
- ▨ CONCRETE RIPRAP

**NOTES:**

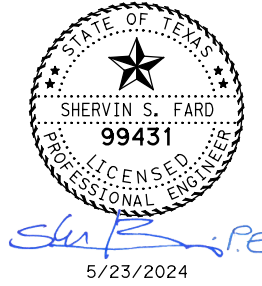
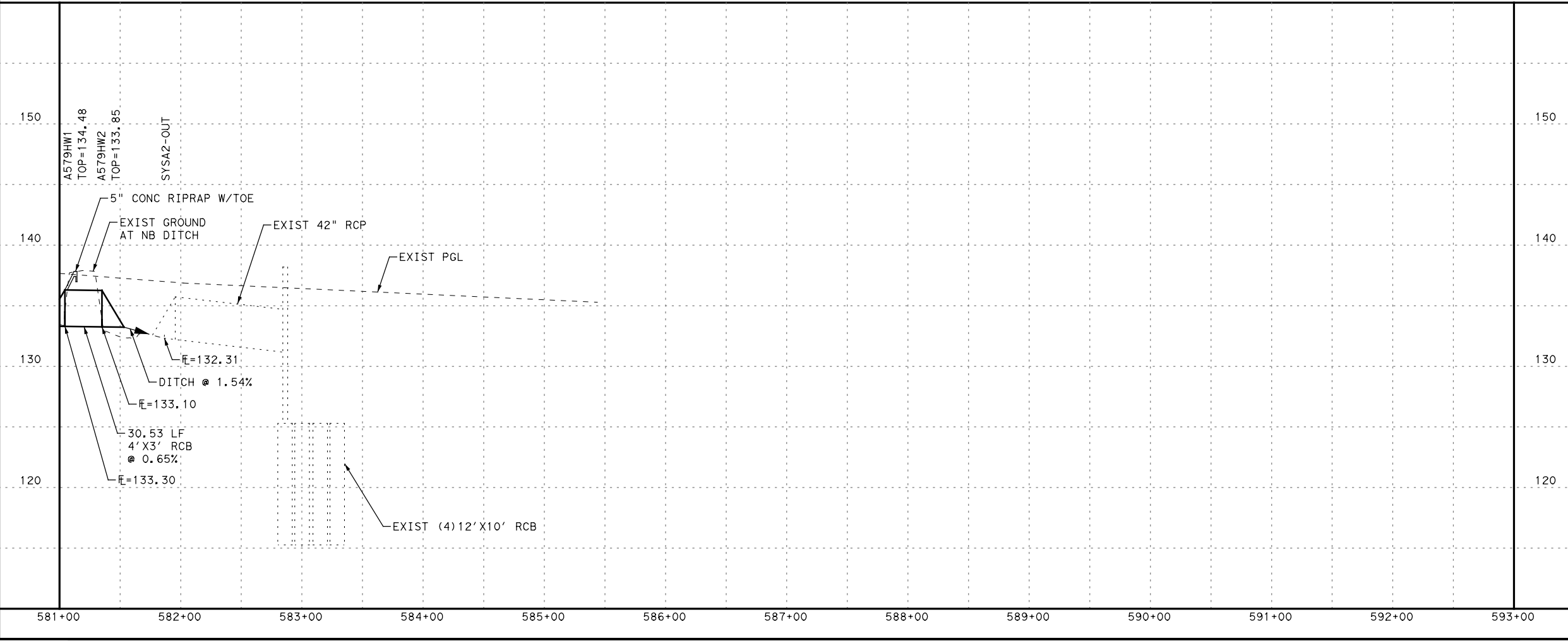
1. SEE ROADWAY PLAN AND PROFILE SHEETS FOR ADDITIONAL INFORMATION.
2. REFER TO ROADSIDE DITCH PROFILES FOR DITCH FLOWLINE ELEVATIONS.
3. ALL STATIONING IS REFERENCED TO THE C FM 1314 UNLESS OTHERWISE NOTED
4. CONTRACTOR TO VERIFY EXACT LOCATION OF EXISTING UNDERGROUND UTILITIES PRIOR TO ANY TRENCHING AND EXCAVATION.
5. PIPE LENGTHS SHOWN IN PROFILE ARE FROM INSIDE FACE OF STRUCTURE TO INSIDE FACE OF STRUCTURE.
6. 2-YR HGL SHOWN IS FOR PROPOSED STORM SEWER ONLY. HGL FOR DITCHED AND EXIST STORM SEWER INTENTIONALLY EXCLUDED.
7. THE CONTRACTOR TO PROVIDE STRUCTURAL SUPPORT AS NECESSARY TO AVOID DAMAGE TO THE UTILITIES/GAS PIPELINES/POWER POLES DURING CONSTRUCTION.



NOTE:  
SEE THE SWMM HYDRAULIC MODEL ASSOCIATED WITH THE WOOLPERT/CIVILTECH "DRAINAGE STUDY FOR FM 1314 ROADWAY IMPROVEMENTS (2024)" FOR THE HGL AT NODE A579HW1 DUE TO THE PROPOSED CONTROL STRUCTURE C2.

1 SHEET REVISED 05/23/2024

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**OMEGA ENGINEERS, INC.** 16360 PARK TEN PLACE, Ste. #325 HOUSTON TEXAS, 77084 OMEGAENGINEERS.COM TX PE Firm Reg. No. F-2147 P:281 647 9182 F:281 647 9184

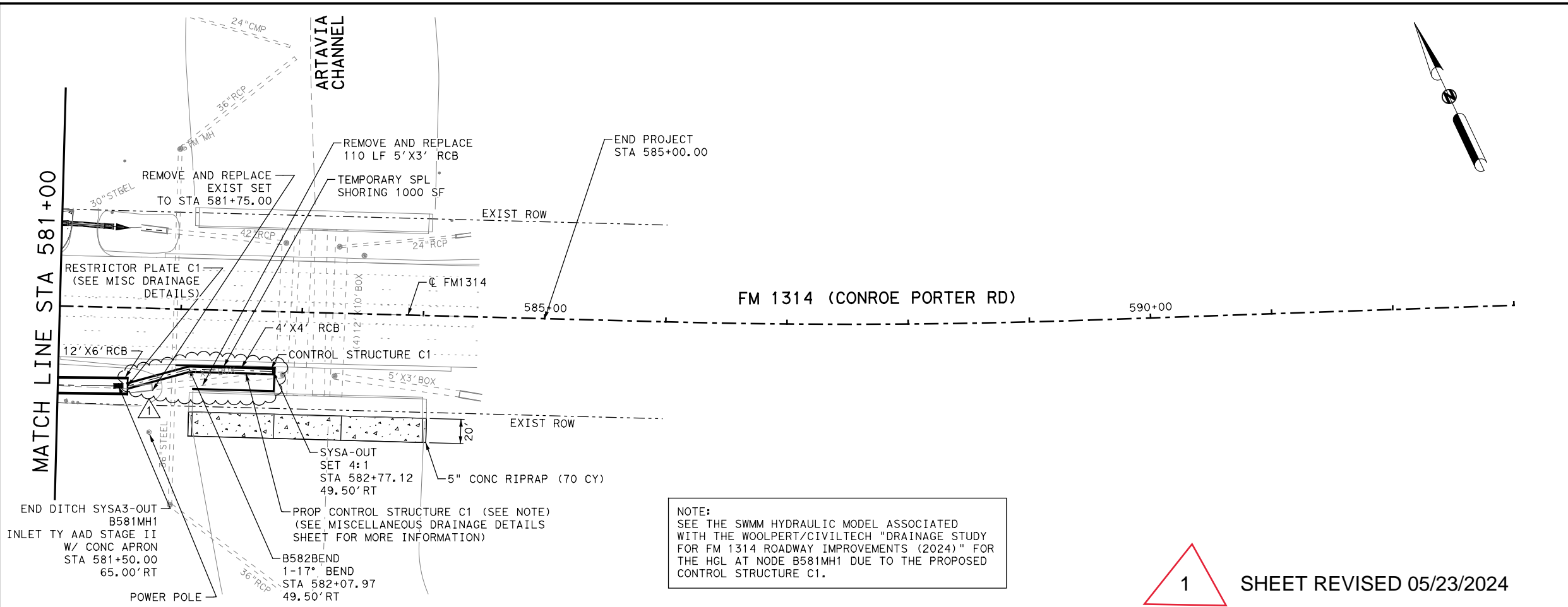


FM 1314  
NB DRAINAGE PLAN & PROFILE  
STA 581+00 TO END

SHEET 11 OF 11

DSN#	YK	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.	SHEET NO.
CK#	SF	6	SEE COVER SHEET	129
DRN#	MS	STATE	DIST.	COUNTY
APPV#	PB	TEXAS	HOU	MONTGOMERY
CONT.	SECT.	JOB	HIGHWAY NO.	
1986	01	064	FM 1314	





**LEGEND**

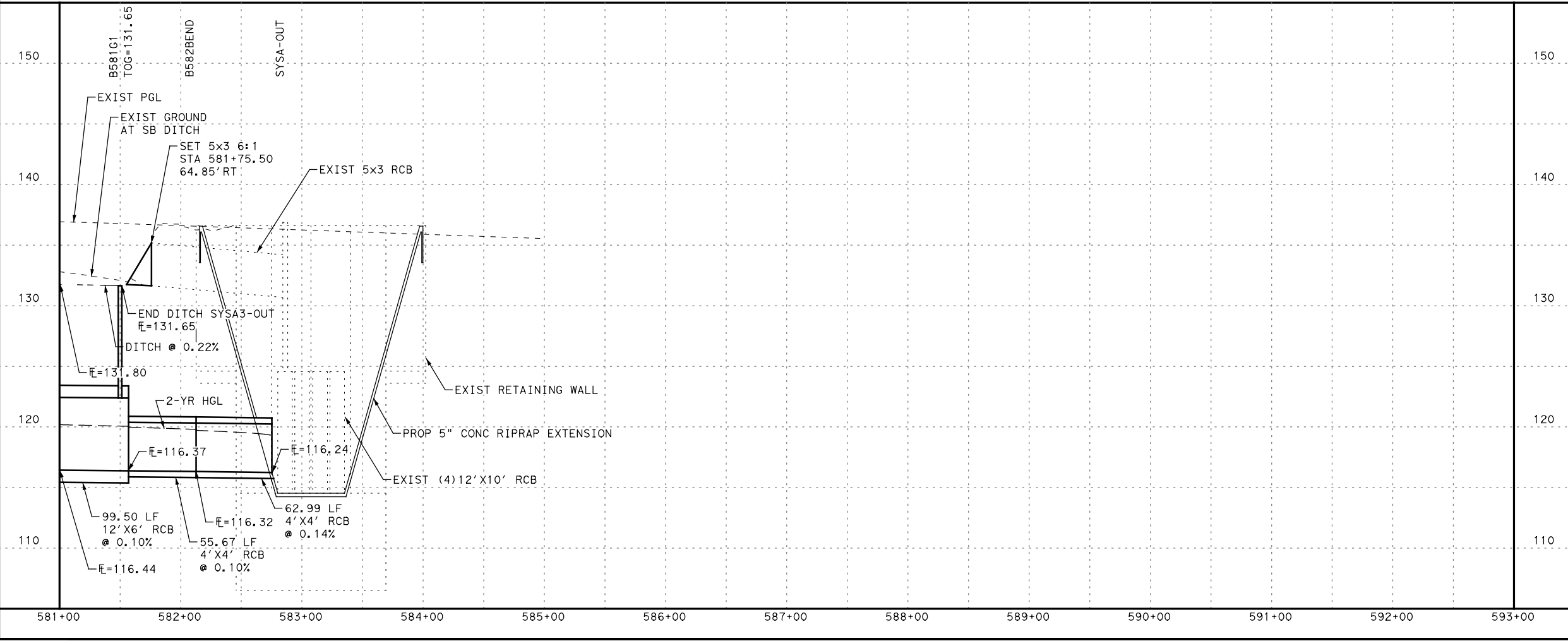
- OR ○ PROP MANHOLE
- OR □ PROP GRATE INLET
- ▬ PROP SET
- ← PROP C DITCH
- - - EXISTING STORM SEWER
- ▬▬▬ PROP STORM SEWER
- ▨ CONCRETE RIPRAP

- NOTES:**
- SEE ROADWAY PLAN AND PROFILE SHEETS FOR ADDITIONAL INFORMATION.
  - REFER TO ROADSIDE DITCH PROFILES FOR DITCH FLOWLINE ELEVATIONS.
  - ALL STATIONING IS REFERENCED TO THE C FM 1314 UNLESS OTHERWISE NOTED
  - CONTRACTOR TO VERIFY EXACT LOCATION OF EXISTING UNDERGROUND UTILITIES PRIOR TO ANY TRENCHING AND EXCAVATION.
  - PIPE LENGTHS SHOWN IN PROFILE ARE FROM INSIDE FACE OF STRUCTURE TO INSIDE FACE OF STRUCTURE.
  - 2-YR HGL SHOWN IS FOR PROPOSED STORM SEWER ONLY. HGL FOR DITCHED AND EXIST STORM SEWER INTENTIONALLY EXCLUDED.
  - THE CONTRACTOR TO PROVIDE STRUCTURAL SUPPORT AS NECESSARY TO AVOID DAMAGE TO THE UTILITIES/GAS PIPELINES/POWER POLES DURING CONSTRUCTION.
- 0 50 100 (H)  
0 5 10 (V)  
SCALE IN FEET

**NOTE:**  
SEE THE SWMM HYDRAULIC MODEL ASSOCIATED WITH THE WOOLPERT/CIVILTECH "DRAINAGE STUDY FOR FM 1314 ROADWAY IMPROVEMENTS (2024)" FOR THE HGL AT NODE B581MH1 DUE TO THE PROPOSED CONTROL STRUCTURE C1.

1 SHEET REVISED 05/23/2024

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**FM 1314**  
**SB DRAINAGE PLAN & PROFILE**  
**STA 581+00 TO END**

SHEET 11 OF 11

DSN#	YK	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.	SHEET NO.
CK#	SF	6	SEE COVER SHEET	140
DRN#	MS	STATE	DIST.	COUNTY
APPV#	PB	TEXAS	HOU	MONTGOMERY
CONT.	SECT.	JOB	HIGHWAY NO.	
1986	01	064	FM 1314	