

Change Order #2 Dicker Road

Owner: Hidalgo County Precinct #2

To: Earthworks Enterprise, LLC
PO Box 595
Penitas, Texas 78576

From: B2Z Engineering

Project: Dicker Road
Project #: STP 1902 (323)MM
Contract: C-19-017-11-05
CSJ: 0921-02-312
Limits: Spur 115(23rd Street) to FM 2061(Jackson Road)

Change Order #2 has been approved to make the following Contract Changes:

Description:

Reinforced Concrete Boxes

Location #1 & #2 allows for quantity adjustments to Culvert #2 (9' x7' RCB) and Culvert #3 (7' x 5' RCB) located at the McAllen Main Drain at Sta's 86+90 and 89+94. The 7'x5'RCB are overestimated requiring a 22 Lf. decrease and the 9'x7'RCB were underestimated (one line of boxes) requiring a 249 Lf. increase. Plan sheet #165a was corrected. Plan sheet #166 is correct, but the (E&Q Summary) estimate and quantities were in error.

Reinforced Concrete Pipe

Location #3, material error at Culvert #1 (Sta 26+94) – Replace 18" RCP(T&G) tongue and groove pipe with 18" RCP(Spl), a rubber gasketed pipe to eliminate leaking or silting. The plans and quantities are in error requiring a 206 Ft increase - 18" RCP (CI III)(Spl) and a 206 Ft decrease – 18" RCP(CI III). Sheet #164a

Location #4 at Sta 13+50 to 20+50 - 18" & 24" RCP were measured incorrectly. The 18" RCP sheet quantity of 614LF should be 399LF. The 24" RCP sheet quantity of 317LF should be 532Lf. Requiring a 215Lf decrease of 18" RCP (CI III) (Spl) and a 215Lf increase of 24" RCP (CI III) (Spl). Sheet #152a

Location #5, material error, Sta 43+64 & 50+50, sheet totals are 200Lf & 200Lf (400Ft Total) of 18" RCP CI V pipe should be 18" (RLHPP) Reinforced Low Head Pressure Pipe(Specifically for Irrigation). Remove 400Lf - 18" RCP (CI V) and replace it with 18" RCLHPP. Sheet #167a & 168a

Plan Sheet Revisions

Add, new plan sheet, "CP" - Prestressed Concrete Piping Sheet #227a

These additional funds have been presented, reviewed and accepted by both the County and the Contractor for Change Order No.2. No additional time is required for this work.

Purpose:

The Hidalgo County Precinct #2 Office has identified errors in the plans and storm sewer quantities that require changes. The plans were prepared by Consultant, the TEDSI Infrastructure Group. The work is awaiting TxDOT concurrence in order to incorporate changes.

This change order allows the County to fund the change listed above and complete the work as planned. The change order has been signed by the Contractor and AE.

The County has been notified of the Change Order and agrees to modify the current schedule of values to reflect the changes shown in CO #2. These changes have been identified during construction, but do not impact the construction progress at this time. These changes do not impact the original environmental assessment, do not impact TDLR elements, do not impact wetlands, and do not impact waters of the US, archeological, historical or social issues; endangered species or any other regulated areas within the project. This change order does not cause a disturbance that would require modification to the Construction Site Notice (CSN) or Notice of Intent (NOI).

B2Z has reviewed the change order with Hidalgo County Precinct #2, to explain the breakdown of items and amounts according to the governing Specification 1L-9L. See TxDOT Change Order Form 2146-L used to describe bid item changes and cost changes. Revised plan sheets include 11a, 14a, 152a, 164a, 165a, 167a, 168a, 227a.

CHANGE IN CONTRACT PRICE:	CHANGE IN CONTRACT TIME:
Original Contract Price <u>\$16,519,063.02</u>	Original Contract Time <u>460 working Days</u>
Previous Change Orders <u>-\$539,375.16</u>	Previous Change Orders <u>0 Working Days</u>

Contract Price prior to this Change Order <u>\$15,979,687.86</u>	Contract Time prior to this Change Order <u>460 Working Days</u>
Net increase/decrease of the Change Order <u>\$190,124.10</u>	Net increase/decrease of the Change Order <u>0 Working Days</u>
Contract Price with all approved Change Orders <u>\$16,169,811.96</u>	Contract Time with all approved Change Orders <u>460 Working Days</u>

CONSTRUCTION CONTRACT CHANGE ORDER NUMBER: 2

1. CONTRACTOR: Earthworks Enterprise, LLC

2. Change Order Work Limits: Sta. 13+50 to Sta. 89+94

3. Type of Change (on federal-aid non-exempt projects): Minor (Major/Minor)

4. Describe the change and the reason for the change order. When necessary, include exceptions to this agreement.

- 1. Plan error - 9'x7' RCB at Culvert #2, Sta. 86+90 - increase quantity
- 2. Plan error - 7'x5' RCB at Culvert #3, Sta. 89+94 - decrease quantity
- 3. Sta 26+94 - Replace 18"RCP(CI III) (T&G) with 18"RCP(CI III) Spl(gasket pipe)
- 4. Sta 13+50 to 20+50 - 18" & 24" RCP (CI III)SPL - increase & decrease quantities
- 5. Plan Error - Replace 18" RCP (CIV) with 18" RCLHPP(CI III)(Irrigation Pipe)
- 6. New plan sheet for reinforced concrete piling standard sheet - CP - Sht 227a

CCSJ:	<u>0921-02-312</u>
Project:	<u>STP 1902(323)MM</u>
Highway:	<u>Dicker Road</u>
County:	<u>Hidalgo</u>
District:	<u>Pharr</u>
Contract Number:	<u>C-19-017-11-05</u>

5. New or revised plan sheet(s) are attached and numbered: 11a, 14a, 152a, 164a, 165a, 167a, 168a, 227a

Each signatory hereby warrants that each has the authority to execute this Change Order.

<p>By signing this change order, the contractor agrees to waive any and all claims for additional compensation due to any and all other expenses; additional changes for time, overhead and profit or loss of compensation as a result of this change. Further, the contractor agrees that this agreement is made in accordance with Item 4 and the Contract. Exceptions should be noted in the response for #5 above.</p>	<p>The following information must be provided</p> <p>Time Ext. #: <u>0</u> Days added on this C.O.: <u>0</u></p> <p>Amt. added by this change order: <u>\$190,124.10</u></p>
	<p>For TxDOT use only:</p> <p>Days participating: _____</p> <p>Amount participating: _____</p> <p>Signature _____ Date _____</p> <p>Name/Title _____</p>
<p>THE CONTRACTOR _____ Date _____</p> <p>By _____</p> <p>Typed/Printed Name _____</p> <p>Typed/Printed Title _____</p>	

RECOMMENDED FOR EXECUTION:

Name/Title _____ Date _____

Name/Title _____ Date _____
 APPROVED REQUEST APPROVAL

Name/Title _____ Date _____

Name/Title _____ Date _____
 APPROVED REQUEST APPROVAL

Name/Title _____ Date _____

Name/Title _____ Date _____
 APPROVED REQUEST APPROVAL

Name/Title _____ Date _____

Name/Title _____ Date _____
 APPROVED

Engineer's Seal:

Dicker Road

Schedule of Values for CO #2

CO #2			Plan	CO	CO	
			Quantity	Adjustment	Quantity	
New Item	4024-6002	RC Low Head Prssr Pipe (CL III)(18")	LF	-	400	400.00
New Item	9002-001	Addtn Wrk 9FT X 7FT	LF	-	249	249.00
Ex. Item	462-6060	CONC BOX CULV (7 FT X 5 FT) EXTEND	LF	148.00	-22	126.00
Ex. Item	462-6070	CONC BOX CULV (9 FT X 7 FT) EXTEND	LF	223.00	249	472.00
Ex. Item	464-6003	RC PIPE (CL III)(18 IN)	LF	206.00	-206	-
Ex. Item	464-6025	RC PIPE (CL V) (18 IN)	LF	400.00	-400	-
Ex. Item	464-6038	RC PIPE (CL III) (18 IN)(SPL)	LF	1,474.00	391	1,865.00
Ex. Item	464-6039	RC PIPE (CL III) (24 IN)(SPL)	LF	1,424.00	215	1,639.00

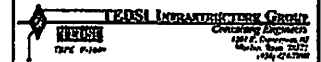
ESTIMATE QUANTITY

ITEM NO.	DESCRIPTION	UNIT	TOTAL	
			EST	CO #2
0100 8002	PREPARING ROW	STA	125.4	
0104 8008	REMOVING CONC (RIPRAP)	BY	470.0	
0104 8015	REMOVING CONC (SIDEWALKS)	BY	36.0	
0104 8017	REMOVING CONC (DRIVEWAYS)	BY	1483.0	
0104 8022	REMOVING CONC (CURB AND GUTTER)	LF	1418.0	
0104 8032	REMOVING CONC (WHEELCHAIR RAMP)	BY	122.0	
0104 8037	REMOVE CONC (RAIL)	LF	640.0	
0110 8031	EXCAVATION (ROADWAY)	CY	62071.0	
0182 8006	EMBANKMENT (FINAL DENS COMPTTY C)	CY	51358.0	
0180 8008	FURNISHING AND PLACING TOPSOIL	CY	80.0	
0184 8028	CELL FOR MULCH SEED (TEMP/WARM)	BY	50955.0	
0184 8031	CELL FOR MULCH SEED (TEMP/COOL)	BY	50955.0	
0188 8001	VEGETATIVE WATERING	MG	1000.0	
0189 8003	SOIL RETENTION BLANKETS (CL 1) (TY C)	SY	244.0	
0204 8003	SPRINKLING (DUST CONTROL)	MG	545.6	
0215 8001	PROOF ROLLING	HR	80.0	
0247 8225	FL BS (RDWY DELTY E GR 4) (FINAL POS)	CY	18283.0	
0281 8185	REWORK BS MATL (TY B)(11)(DENS CONT)	CY	18013.0	
0289 8011	LIME TRT (EXIST MATL) (12)	SY	105867.0	
0289 8018	LIME (HYD, COM, CR OR CHLORRY)	TON	3882.0	
0289 8038	LIME TRT (EXT MATL & NEW BASE) (11)	SY	102902.0	
0305 8003	SALV HALL & STRKPL RCL APH PV (2 TO 4')	BY	59892.0	
0310 8009	PRIME COAT (AC-30)	GAL	20580.0	
0341 8008	D-GR HMA TY-B PG89-22	TON	24102.0	
0341 8047	D-GR HMA TY-D SAC-A PG78-22	TON	18453.0	
0354 8041	PLANE ASPH CONC PAV (1.5')	SY	5847.0	
0400 8005	CEM STABIL BKFL	CY	720.6	
0400 8008	CUT & RESTORING ASPH PAV	SY	603.0	
0400 8010	STRUCT EXCAV (SPECIAL)	CY	6287.0	
0401 8001	FLOWABLE BACKFILL	CY	75.0	
0402 8001	TRENCH EXCAVATION PROTECTION	LF	14113.0	
0403 8001	TEMPORARY SPL SHORING	SF	2008.0	
0408 8002	PRESTR CONC PIL (18 IN SO)	LF	1218.0	
0418 8020	DRILL SHAFT (TRP SIG POLE) (24 IN)	LF	128.0	
0418 8032	DRILL SHAFT (TRP SIG POLE) (36 IN)	LF	88.0	
0420 8019	CL C CONC (ABUT)(EXTEND)	CY	117.8	
0420 8033	CL C CONC (CAP)(EXTEND)	CY	22.0	
0422 8003	REINF CONC SLAB (EXTEND SLAB)	SF	8851.0	
0426 8037	PRESTR CONC GIRDER (TX40)	LF	427.9	
0426 8039	PRESTR CONC GIRDER (TX54)	LF	372.3	
0432 8001	RIPRAP (CONC)(4 IN)	CY	893.0	
0432 8002	RIPRAP (CONC)(8 IN)	CY	188.0	
0443 8007	STR STEEL (MISC NON - BRIDGE)	LB	548.0	
0450 8028	RAIL (TY 85TR)	LF	825.5	
0450 8042	RAIL (TY PR1)	LF	3808.6	
0462 2003	REMOVE RAIL (CONC POST & MTL ELEM)	LF	340.0	
0464 8001	SEALAD EXPANSION JOINT (4 IN) (SEJ - A)	LF	127.5	
0482 8003	CONC BOX CULV (4 FT X 2 FT)	LF	83.0	
0482 8004	CONC BOX CULV (4 FT X 3 FT)	LF	338.0	
0482 8012	CONC BOX CULV (6 FT X 6 FT)	LF	2452.0	
0482 8013	CONC BOX CULV (6 FT X 8 FT)	LF	1812.0	
0482 8090	CONC BOX CULV (7 FT X 5 FT)(EXTEND)	LF	-148.0	128.0
0482 8070	CONC BOX CULV (8 FT X 7 FT)(EXTEND)	LF	-228.0	872.0
0484 8003	RC PIPE (CL III)(18 IN)	LF	-206.0	0.0
0484 8025	RC PIPE (CL III)(18 IN)	LF	-488.0	0.0
0484 8038	RC PIPE (CL III)(18 IN)(SPL)	LF	4474.0	1089.0
0484 8039	RC PIPE (CL III)(24 IN)(SPL)	LF	1424.0	1639.0
0484 8040	RC PIPE (CL III)(30 IN)(SPL)	LF	1831.0	
0484 8041	RC PIPE (CL III)(36 IN)(SPL)	LF	250.0	
0484 8042	RC PIPE (CL III)(42 IN)(SPL)	LF	1037.0	
0484 8043	RC PIPE (CL III)(48 IN)(SPL)	LF	820.0	
0484 8044	RC PIPE (CL III)(54 IN)(SPL)	LF	1851.0	

ESTIMATE QUANTITY (CONT)

ITEM NO.	DESCRIPTION	UNIT	TOTAL	
			EST	CO #2
0484 8045	RC PIPE (CL III)(60 IN)(SPL)	LF	916	
0485 8029	INLET (COMPL)(PCU)(FT)(NONE)	EA	19	
0485 8030	INLET (COMPL)(PCU)(FT)(LEFT)	EA	19	
0485 8031	INLET (COMPL)(PCU)(FT)(RIGHT)	EA	8	
0485 8033	INLET (COMPL)(PCU)(FT)(NONE)	EA	1	
0485 8035	INLET (COMPL)(PCU)(FT)(RIGHT)	EA	2	
0485 8037	INLET (COMPL)(PCU)(FT)(NONE)	EA	2	
0485 8038	INLET (COMPL)(PCU)(FT)(LEFT)	EA	1	
0485 8039	INLET (COMPL)(PCU)(FT)(RIGHT)	EA	1	
0485 8041	INLET (COMPL)(PCU)(FT)(NONE)	EA	3	
0485 8074	INLET (COMPL)(PBL)(RCH)(FT)(SFT)	EA	4	
0485 8078	INLET (COMPL)(PBL)(RCH)(FT)(SFT)	EA	2	
0485 8077	INLET (COMPL)(PBL)(RCH)(FT)(SFT)	EA	5	
0485 8168	INLET (COMPL)(PADD)(RCH)(FT)(SFT)(FT)(SFT)	EA	5	
0485 8165	INLET (COMPL)(PADD)(RCH)(FT)(SFT)(FT)(SFT)	EA	1	
0485 8178	INLET (COMPL)(CURB)(TY C)(MOD)	EA	10	
0487 8388	SET (TY II) (18 IN) (RCP) (E-1) (C)	EA	2	
0487 8388	SET (TY II) (24 IN) (RCP) (E-1) (C)	EA	1	
0489 8001	CLEAN DIRT CULVERTS	EA	2	
0489 8003	REMOVE STR (MANHOLE)	EA	1	
0489 8006	REMOVE STR (WINGWALL)	EA	4	
0489 8007	REMOVE STR (PIPE)	LF	6970	
0489 8001	REMOVE STRUCT (EXIST STANDPIPE)	EA	3	
0489 8002	REMOVE STRUCT (EXIST ORRG VALVE)	EA	3	
0785 6011	BRIDGE JOINT REPLACEMENT (R/L)	LF	381	
1007 8001	(RRR) WELL (R/L) (STANDPIPE)	EA	3	
1007 8002	(RRR) VALVE (14") ALP ALFA	EA	3	
1008 8008	PRESS RRRR PVC PIPE (15')	LF	388	
7018 8008	CASING (STEEL) (24 IN) (OPEN TRENCH)	LF	258	
0500 8001	MODULIZATION	LB	1	
0502 8001	BARRICADES, SIGNS AND TRAFFIC HANDLING	MO	23	
0508 8001	ROCK FILTER DAMS (INSTALL) (TY 1)	LF	82	
0508 8004	ROCK FILTER DAMS (INSTALL) (TY 4)	LF	9	
0508 8011	ROCK FILTER DAMS (REMOVE)	LF	101	
0508 8021	CONSTRUCTION EXITS (INSTALL) (TY 2)	SY	1428	
0508 8024	CONSTRUCTION EXITS (REMOVE)	SY	1463	
0508 8031	FRNT END LOADER WORK (RRR & 6000 CONT)	HR	60	
0508 8038	TEMP SEDMT CONT FENCE (INSTALL)	LF	5147	
0508 8039	TRMP SEDMT CONT FENCE (REMOVE)	LF	5147	
0508 8041	BIODEGRADSN CONT LOGS (INSTL) (12')	LF	1086	
0508 8043	BIODEGRADSN CONT LOGS (REMOVE)	LF	1086	
0508 8001	CONSTRUCTING DETOURS	SY	15884	
0512 8001	PORT CTB (FLR & INST)(SGL SLOPE)(TY 1)	LF	3180	
0512 8009	PORT CTB (FLR & INST)(LOW PROP)(TY 1)	LF	6880	
0512 8010	PORT CTB (FLR & INST)(LOW PROP)(TY 2)	LF	320	
0512 8025	PORT CTB (MOVE)(SGL SLP)(TY 1)	LF	2180	
0512 8042	PORT CTB (REMOVE)(SGL SLP)(TY 1)	LF	3180	
0512 8057	PORT CTB (REMOVE)(LOW PROP)(TY 1)	LF	6880	
0512 8064	PORT CTB (REMOVE)(LOW PROP)(TY 2)	LF	320	
0528 8029	CONC CURB & GUTTER (TY A)	LF	28863	
0528 8031	CONC CURB & GUTTER (VALLEY GUTTER) (48")	LF	89	
0530 8004	DRIVEWAYS (CONC)	SY	891	
0530 8005	DRIVEWAYS (ACP)	SY	8225	
0531 8001	CONC SIDEWALKS (4')	SY	16141	
0531 8004	CURB RAMPS (TY 1)	EA	28	
0540 8001	MTL W-BEAM GD PEN (TM POST)	LF	876	
4024 8001	RC LGW HEAD PRESS PIPE (CL III)(18")	LF	600	4024 8001

CO #2 - Quantity & Sheet Adjustment
 Adjust - 7x5RCB-8x7RCB
 Adjust - 18" RCP(T&G) to 18"(Spl)
 Change 18" CI V to 18" RCLHPP(In)
 Add Standard Sheet - Concrete Piling



DICKER ROAD
 ESTIMATE QUANTITY

CO #2

REV	DATE	BY	APP	DESCRIPTION
01	08/21/20	CEJ	378	DICKER ROAD
02	08/21/20	CEJ	378	NO. 2
03	08/21/20	CEJ	378	HIDALGO
04	08/21/20	CEJ	378	11/18/20

DATE: 08/21/20 08:28:33

DRAINAGE SUMMARY

LOCATION	400 6001 (*) STRUCT EXCAV	400 6002 (*) STRUCT EXCAV (BOX)	400 6010 STRUCT EXCAV (SPECIAL)	402 6001 TRENCH EXCAV. PROTECT.	402 6003 CONC BOX CULV (4FTx2FT)	402 6004 CONC BOX CULV (4FTx3FT)	402 6012 CONC BOX CULV (6FTx5FT)	402 6013 CONC BOX CULV (6FTx6FT)	404 6030 RC PIPE (CL 8) (24 IN) (SPL)	404 6039 RC PIPE (CL 8) (24 IN) (SPL)	404 6040 RC PIPE (CL 8) (30 IN) (SPL)	404 6041 RC PIPE (CL 8) (36 IN) (SPL)	404 6042 RC PIPE (CL 8) (42 IN) (SPL)	404 6048 RC PIPE (CL 8) (48 IN) (SPL)	404 6044 RC PIPE (CL 8) (54 IN) (SPL)	404 6046 RC PIPE (CL 8) (60 IN) (SPL)	
DICKER ROAD	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	
USD 1 OF 12			400	1,234					-399.0	-522.0							
USD 2 OF 12		400	222	84	390												
USD 3 OF 12			222	1,352													
USD 4 OF 12		347	222	1,352													
USD 5 OF 12		200	194	1,480		1,016							928	190	227		
USD 6 OF 12		218	72	1,250		1,100											
USD 7 OF 12		192		857		269											
USD 8 OF 12			174	1,390													
USD 9 OF 12			1,352	1,352													
USD 10 OF 12			80	1,250													
USD 11 OF 12			80	1,250													
USD 12 OF 12			80	1,250													
THROUGHOUT PROJECT	31,092																
TOTAL	33,639	1,789	6,584	18,293	61	310	3,493	1,612	1,282.0	1,638.0		1,831	250	1,037	620	1,661	815

FOR CONTRACTOR INFORMATION ONLY
CUT AND RESTORING PAVEMENT FOR DRAINAGE QUANTITY ON TCP SUMMARY

CO #2 CO #2

DRAINAGE SUMMARY (CONTINUATION)

LOCATION	405 6020 INLET (COMPL) (PCL) (SFT) (NONE) (EA)	405 6030 INLET (COMPL) (PCL) (SFT) (EA)	405 6031 INLET (COMPL) (PCL) (SFT) (RIGHT) (EA)	405 6034 INLET (COMPL) (PCL) (SFT) (NONE) (EA)	405 6035 INLET (COMPL) (PCL) (SFT) (RIGHT) (EA)	405 6037 INLET (COMPL) (PCL) (SFT) (NONE) (EA)	405 6038 INLET (COMPL) (PCL) (SFT) (EA)	405 6039 INLET (COMPL) (PCL) (SFT) (RIGHT) (EA)	405 6041 INLET (COMPL) (PCL) (SFT) (NONE) (EA)	405 6074 INLET (COMPL) (PCL) (SFT) (RIGHT) (EA)	405 6076 INLET (COMPL) (PCL) (SFT) (NONE) (EA)	405 6077 INLET (COMPL) (PCL) (SFT) (EA)	405 6150 INLET (COMPL) (PCL) (SFT) (EA)	405 6160 INLET (COMPL) (PCL) (SFT) (EA)	405 6176 INLET (COMPL) (PCL) (SFT) (EA)	407 6036 ELET (TY D) (18 IN) (RCP) (S)(I)(C) (EA)	407 6038 ELET (TY R) (24 IN) (RCP) (S)(I)(C) (EA)
DICKER ROAD																	
USD 1 OF 12																	
USD 2 OF 12																	
USD 3 OF 12																	
USD 4 OF 12																	
USD 5 OF 12																	
USD 6 OF 12																	
USD 7 OF 12																	
USD 8 OF 12																	
USD 9 OF 12																	
USD 10 OF 12																	
USD 11 OF 12																	
USD 12 OF 12																	
TOTAL	19	18	8	1	2	2	1	1	3	4	2	6	3	1	10	2	1

CO #2 - Quantity & Sheet Adjustment
Adjust - 7x5RCB-9x7RCB
Adjust - 18" RCP & 24" RCP (Spl)
Change - 18" RCP(T&G) to 18"(Spl)
Change 18" CIV to 18" RCLHPP(In)
Add Standard Sheet - Concrete Piling

CULVERT SUMMARY

LOCATION	104 6009 REMOVING CONC (RPRAP) (E)	132 6008 EMBANKMENT (FINAL) (DENS CONT) (TY C) (E)	* 400 6001 STRUCT EXCAV (E)	400 6005 CEM STABIL SPL (E)	400 6010 STRUCT EXCAV (SPECIAL) (E)	TEMP SPL SHORING (E)	RIPRAP (E)	CONC BOX CULVERT (7 FT X 5 FT) (EXTEND) (E)	CONC BOX CULVERT (8 FT X 7 FT) (EXTEND) (E)	RC PIPE (CL 8) (SPL) (E)	INLET (COMPL)(RAZD) (P)(S)(FT X 3 FT) (E)	REMOVE STRUCT PIPE (E)
DICKER ROAD CULVERTS												
CULV. SHEET 1 OF 3	20		155	8	50						208	120
CULV. SHEET 2 OF 3		8,332	1,280		162	700			472.0			
CULV. SHEET 3 OF 3		8,332	1,284		60	500			128.0			
PROJECT TOTAL	20	15,498	2,630	8	217	1,100	147	128.0	472.0	208	2	140

FOR CONTRACTOR INFORMATION ONLY
CUT AND RESTORING PAVEMENT FOR IRRIGATION INCLUDED ON TCP SUMMARY

CO #2 CO #2 CO #2

The County of Hidalgo
Pct 2

Texas Department of Transportation

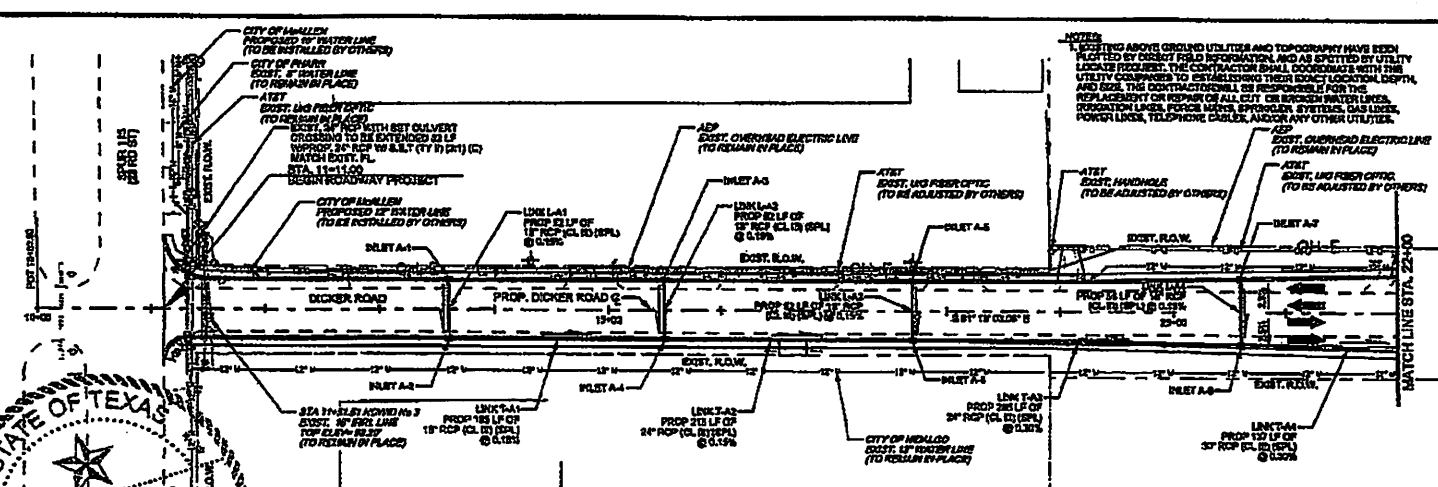
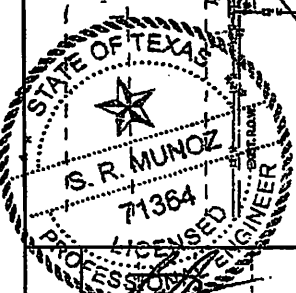
UESI Infrastructure Group
Consulting Engineers
1701 G. G. Donnell Blvd
P.O. Box 1077
194-03-1770

DICKER ROAD
DRAINAGE SUMMARIES

SHEET 1 OF 1

NO.	DATE	BY	APP.	NO.	DATE	BY	APP.
01	08/11	02	313	DICKER ROAD			
02	08/11	02	313				
TEXAS	PROJ	HIDALGO	NO. 5	HIDALGO	1	148	1

DATE: 08/08/11
SCALE: 1/8"=1'-0"

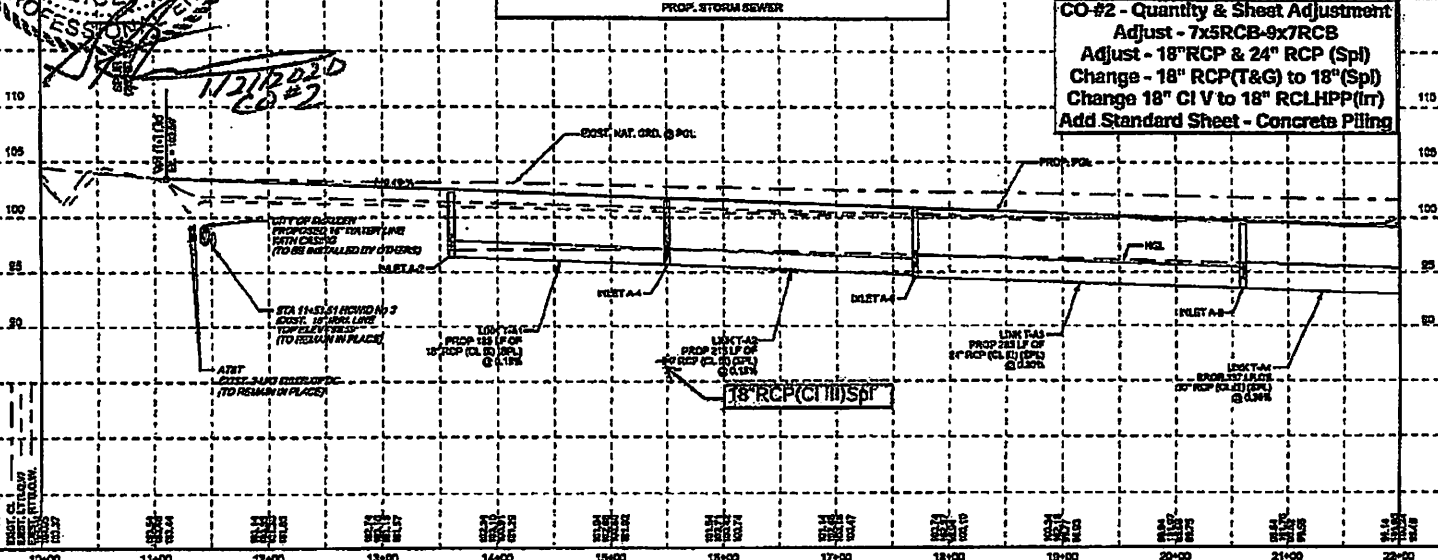


NOTES:
 1. EXISTING ABOVE GROUND UTILITIES AND TOPOGRAPHY HAVE BEEN PLACED BY CORRECT ELEVATION, AND AS SHOWN BY UTILITY LOCATE RECORDS. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES TO ESTABLISH THEIR EXACT LOCATION, DEPTH, AND SIZE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPLACEMENT OR REPAIR OF ALL CUT OR BROKEN WATER LINES, SEWER LINES, FIBER OPTIC CABLES, GAS LINES, POWER LINES, TELEPHONE CABLES, AND/OR ANY OTHER UTILITIES.
 2. EXISTING ABOVE GROUND UTILITIES AND TOPOGRAPHY HAVE BEEN PLACED BY CORRECT ELEVATION, AND AS SHOWN BY UTILITY LOCATE RECORDS. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES TO ESTABLISH THEIR EXACT LOCATION, DEPTH, AND SIZE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPLACEMENT OR REPAIR OF ALL CUT OR BROKEN WATER LINES, SEWER LINES, FIBER OPTIC CABLES, GAS LINES, POWER LINES, TELEPHONE CABLES, AND/OR ANY OTHER UTILITIES.

- LEGEND:**
- ☐ EXIST. PIPES
 - EXIST. ITEM TO BE REMOVED UNDER ITEM 403
 - ⊕ PROP. CONC. PILE DRUM-PIY (T&G)
 - ▨ PROPOSED DRIVEWAY OR TURNOUT (SEE EXISTENCE/UTILITY TABLE FOR SIZES & PIPE QUANTITIES)
 - DIRECTION OF WATER FLOW
 - ⊕ TEST HOLE NUMBER
- NOTES:**
1. SEE ALIGNMENT DATA SHEET FOR PROPOSED CENTERLINE DATA.
 2. ALL RCP SHALL BE CL. 3 UNLESS OTHERWISE NOTED.
 3. SEE DRAINAGE STRUCTURES STANDARD DETAILS FOR DESCRIPTION OF CURB SET IN STORM DRAIN TABLE.
 4. RECONSTRUCTION OF EXISTING STORM DRAIN SHALL BE SUBORDINATE TO PERTINENT SDI DETAILS.
 5. SEE HYDRAULIC DATA SHEETS FOR PAYMENTS OF ALL PROPOSED DRAINAGE STRUCTURES.
 6. FOR OTHER OPEN CHANNEL SEE DETAIL PROFILE SHEET.
 7. SEE PROPOSED CROSS SECTIONS FOR MORE INFORMATION.

Structure ID	Quantity	POC (Station)	Top of RCP	Bottom of RCP	Flow Direction	Prop. (ft)	Prop. (ft)	Prop. (ft)	Prop. (ft)
1	1	10+00	10.00	10.00	West	10	10	10	10
2	1	11+00	11.00	11.00	West	10	10	10	10
3	1	12+00	12.00	12.00	West	10	10	10	10
4	1	13+00	13.00	13.00	West	10	10	10	10
5	1	14+00	14.00	14.00	West	10	10	10	10
6	1	15+00	15.00	15.00	West	10	10	10	10
7	1	16+00	16.00	16.00	West	10	10	10	10
8	1	17+00	17.00	17.00	West	10	10	10	10
9	1	18+00	18.00	18.00	West	10	10	10	10
10	1	19+00	19.00	19.00	West	10	10	10	10
11	1	20+00	20.00	20.00	West	10	10	10	10
12	1	21+00	21.00	21.00	West	10	10	10	10
13	1	22+00	22.00	22.00	West	10	10	10	10

ID	Description	Unit	Quantity
0001	STREET CROWN (SPERM)	CY	100
0002	TRAFFIC ENGINEERING STRUCTURE	EA	1
0003	18\"/>		



CO-#2 - Quantity & Sheet Adjustment
 Adjust - 7x5RCP-9x7RCP
 Adjust - 18\"/>

05-03-2019
 The County of Hidalgo
 Pct 2
 Texas Department of Transportation
 T&S Infrastructure Group
 Consulting Engineers
 1101 E. Commerce St.
 Suite 200
 Brownsville, TX 77801
 361-834-3000

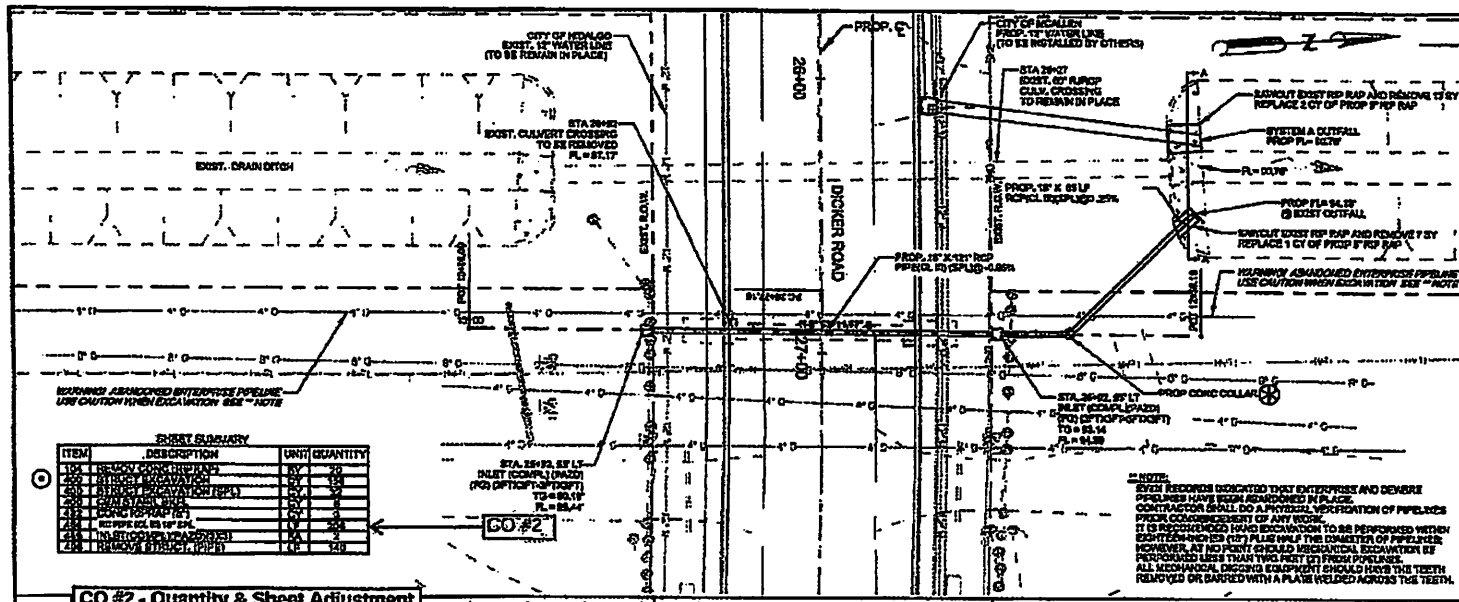
DICKER ROAD UTILITIES AND DRAINAGE
 STA. 10+00 TO STA. 22+00

SCALE: HORIZ. TO 1"=40'
 VERT. TO 1"=4'

Station	Prop. RCP	Prop. CI	Prop. Pile	Prop. Other
10+00	18\"/>			

SHEET 1 OF 12

DATE: 05/03/2019
 TIME: 10:00 AM
 DRAWN BY: [Name]
 CHECKED BY: [Name]
 APPROVED BY: [Name]

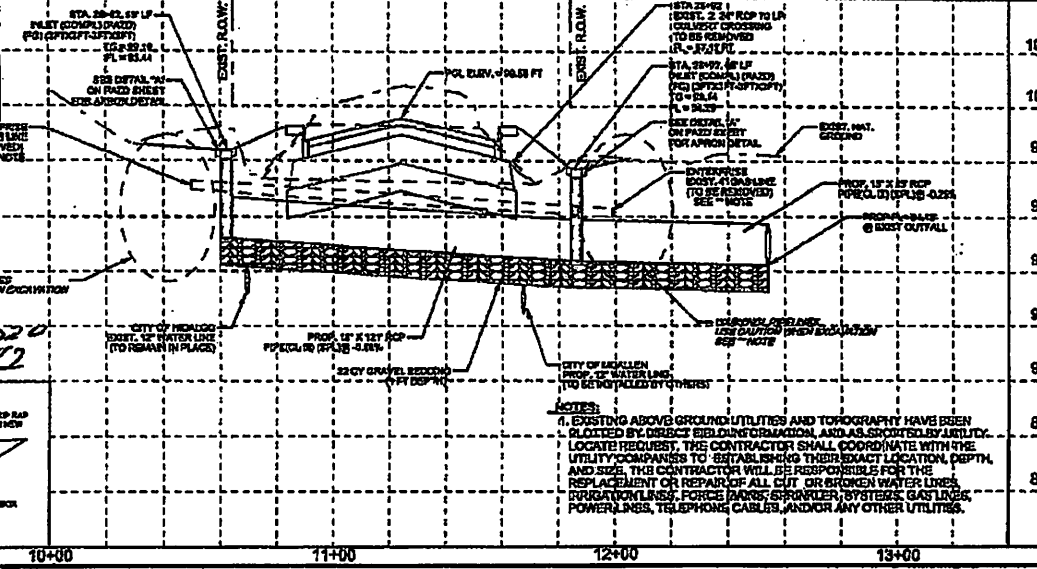
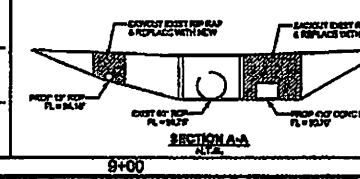
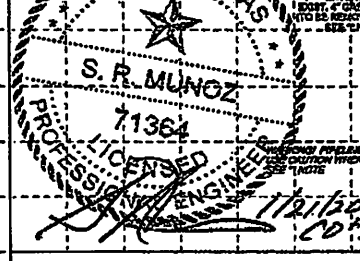


- LEGEND:**
- EXISTING ROADWAY
 - DRIVEWAYS
 - CONCRETE
 - TO BE REMOVED UNDER ITEM 406 (INCLUDES PAYMENT FOR REMOVAL OF ALL APPURTENANCES)
 - DIRECTION OF TRAFFIC
 - OSJ MARKER ASSM
 - FOR CONTRACTORS INFORMATION ONLY, NON PAY
 - CULVERT HYDRAULIC HEC-RAS RUN WITH CULVERT PROGRAM
 - NON PAY ITEM, SUBSIDIARY TO PERTINENT SD ITEM

- NOTES:**
1. WHEN WORKING OUTSIDE THE ROW, CAUTION SHALL BE TAKEN NOT TO DAMAGE EXISTING FENCES, TREES, ETC. THE CONTRACTOR SHALL NOTIFY PROPERTY OWNERS WHEN WORKING OUTSIDE THE ROW. ANY DAMAGES DONE TO THEIR PROPERTY SHALL BE REPAIRED AT CONTRACTORS EXPENSE.
 2. THE CONTRACTOR SHALL VERIFY THAT EXISTING UTILITIES HAVE BEEN RELOCATED IN ADVANCE OF CONSTRUCTION. DAMAGES CAUSED BY OR TO EXISTING UTILITIES ARE THE RESPONSIBILITY OF THE CONTRACTOR.
 3. CULVERT STRUCTURE MODIFICATIONS TO BE DONE IN PHASE I. CONTRACTOR OPTS TO DO IT IN ANY OTHER PHASE, ANY SPECIAL SHORING REQUIRED WILL BE SUBSIDIARY TO CULVERT ITEMS.
 4. PROP. BACKFILL WITH CEMENT STABIL BACKFILL 1' ABOVE SOFFIT OF PIPE IF RESTORING PAVEMENT.
 5. SEE ALIGNMENT DATA SHEET FOR PROP. & EXIST. CENTERLINE DATA.

ITEM	DESCRIPTION	UNIT	QUANTITY
101	CONCRETE PILING	CY	10
102	CONCRETE PILING	CY	10
103	CONCRETE PILING	CY	10
104	CONCRETE PILING	CY	10
105	CONCRETE PILING	CY	10
106	CONCRETE PILING	CY	10
107	CONCRETE PILING	CY	10
108	CONCRETE PILING	CY	10
109	CONCRETE PILING	CY	10
110	CONCRETE PILING	CY	10

CO #2 - Quantity & Sheet Adjustment
 Adjust - 7x5RCB-8x7RCB
 Adjust - 18" RCP & 24" RCP (Sp)
 Change - 18" RCP(T&G) to 18"(Sp)
 Change - 18" RCP to 18" RCLHPP(In)
 Add Standard Sheet Concrete Piling



FORWARDED TO: *[Signature]* DATE: 6/22/2018

The County of Hidalgo
Pct 2

Texas Department of Transportation

TEDSI INFRASTRUCTURE GROUP
Contracting Company
100 E. Commerce St.
Suite 1000
San Antonio, TX 78205

DICKER ROAD CULVERT, NO. 1
HCVMD No 8 DRAIN
STA 28+82.18

COULD NOT BE FOUND

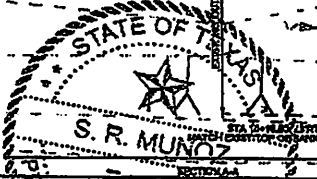
NO.	DATE	BY	APP. BY	REVISION
01	02/21/20	SM	SM	ISSUED FOR BIDDING
02	02/21/20	SM	SM	ISSUED FOR BIDDING
03	02/21/20	SM	SM	ISSUED FOR BIDDING
04	02/21/20	SM	SM	ISSUED FOR BIDDING

TEXAS PRR HIDALGO MSZ HCVMD 184a

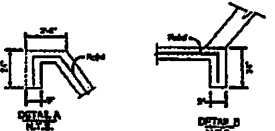
DATE: 11/21/2020

ITEM	DESCRIPTION	UNIT	QUANTITY
1	CONCRETE PILING	CY	11.50
2	CONCRETE PILING	CY	11.50
3	CONCRETE PILING	CY	11.50
4	CONCRETE PILING	CY	11.50
5	CONCRETE PILING	CY	11.50
6	CONCRETE PILING	CY	11.50
7	CONCRETE PILING	CY	11.50
8	CONCRETE PILING	CY	11.50
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13	CONCRETE PILING	CY	11.50
14	CONCRETE PILING	CY	11.50
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16	CONCRETE PILING	CY	11.50
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30	CONCRETE PILING	CY	11.50
31	CONCRETE PILING	CY	11.50
32	CONCRETE PILING	CY	11.50
33	CONCRETE PILING	CY </tr	

CO #2 - Quantity & Sheet Adjustment
 Adjust - 7x5RCB-9x7RCB
 Adjust - 18" RCP & 24" RCP (Spl)
 Change - 18" RCP(T&G) to 18"(Spl)
 Change 18" CI V to 18" RCLHPP(In)
 Add Standard Sheet - Concrete Piling



- LEGEND:**
- EXISTING ROADWAY
 - EMBANKMENT
 - CONCRETE
 - TO BE REMOVED UNDER ITEM 4B6
 - INCLUDED PAYMENT FOR REMOVAL OF ALL APPURTENANCES
 - DIRECTION OF TRAFFIC
 - OLD MARKER ASSN
 - FOR CONTRACTOR'S INFORMATION ONLY, NON-PAY
 - CULVERT HYDRAULIC HEC-RAS RUNOFF WITH CULVERT PROGRAM
 - NON-PAY, SUBSIDIARY TO PERTMENT 05 ITEMS
 - TEMPORARY SHORING



- NOTES:**
1. WHEN WORKED OUTSIDE THE ROW, CAUTION SHALL BE TAKEN NOT TO DAMAGE EXISTING PIPES, WIRES, ETC. THE CONTRACTOR SHALL NOTIFY PROPERTY OWNERS IMMEDIATELY OUTSIDE THE ROW, ANY DAMAGES TO THIRD PROPERTY SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE.
 2. THE CONTRACTOR SHALL ADVISE THAT CONFLICTS WITH EXISTING UTILITIES HAVE BEEN RESOLVED IN ADVANCE OF CONSTRUCTION. CONFLICTS CAUSED BY OLD TO EXISTING UTILITIES ARE THE RESPONSIBILITY OF THE CONTRACTOR.
 3. CULVERT STRUCTURE MODIFICATIONS TO BE DONE IN PHASE 1 IF CONTRACTOR OPTS TO DO IT. IF ANY OTHER PHASES ARE SPECIAL, SHORING PROVIDED WILL BE SUFFICIENT TO CULVERT LEVEL.
 4. PROP. BACKFILL WITH CONCRETE STAIR BACKFILL 1' ABOVE TOP OF PIPE IF EXISTING PAVEMENT.
 5. SEE ALIGNMENT DATA SHEET FOR PROP. & EXIST. CENTERLINE DATA.
 6. SEE CULVERT LAYOUT CROSS SECTIONS FOR DETAILS.

ITEM	DESCRIPTION	UNIT	QUANTITY
1	CONCRETE PILING	CY	11.50
2	CONCRETE PILING	CY	11.50
3	CONCRETE PILING	CY	11.50
4	CONCRETE PILING	CY	11.50
5	CONCRETE PILING	CY	11.50
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98	CONCRETE PILING	CY	11.50
99	CONCRETE PILING	CY	11.50
100	CONCRETE PILING	CY	11.50

Professional Engineer Seal for Roberto Fura Carral, State of Texas, License No. 11487, Mechanical.

DATE: 4/22/2018

The County of Hidalgo
 Pct 2

Texas Department of Transportation

HDSI INFRASTRUCTURE GROUP
 Consulting Engineers
 1402 E. Commercial
 Suite 100
 San Antonio, TX 78204
 (214) 724-7400

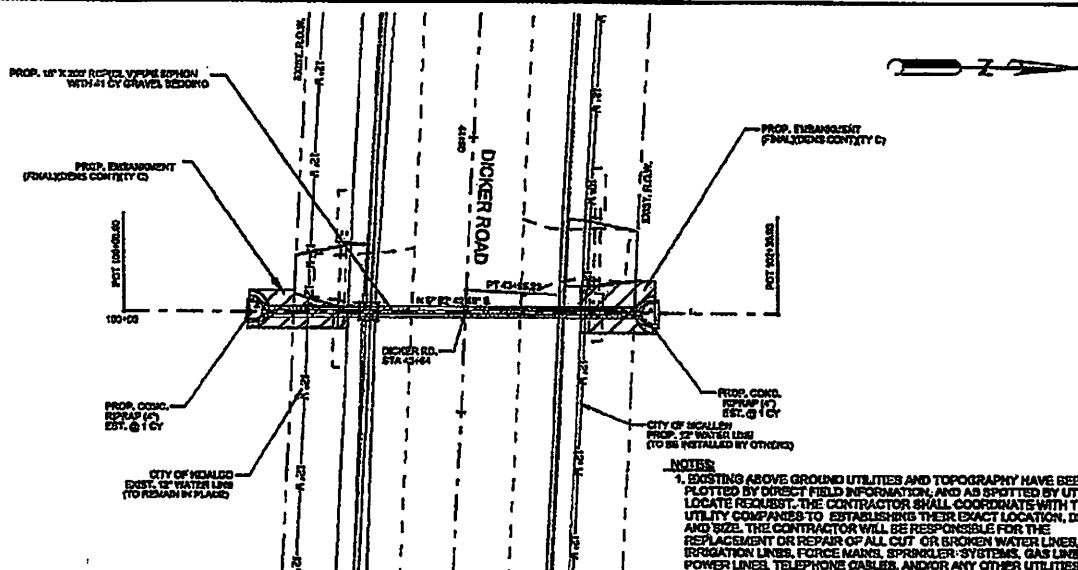
DICKER ROAD
 CULVERT NO. 2
 STA 86+89.34

DATE: 4/22/2018 10:52:27 PM

SCALE: HORIZ. 1"=40'

VERT. 1"=8'

NO.	DATE	BY	CHKD.	APP'D.	REVISION
1	02/11/18	02	313		DICKER ROAD
2	02/11/18	02	313		DICKER ROAD
3	02/11/18	02	313		DICKER ROAD
4	02/11/18	02	313		DICKER ROAD
5	02/11/18	02	313		DICKER ROAD
6	02/11/18	02	313		DICKER ROAD
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81	02/11/18	02	313		DICKER ROAD
82	02/11/18	02	313		DICKER ROAD
83	02/11/18	02	313		



- LEGEND:**
- ① NONPAY, SUBSIDIARY TO PERMITMENT OR ITEMS.
 - ② TO BE REMOVED UNDER ITEM 403. INCLUDES PAYMENT FOR REMOVAL OF ALL APPLICANCES ONLY.
 - ③ NONPAY ITEM FOR CONTRACTORY INFORMATION ONLY.
 - ④ THE CONTRACTOR SHALL CONFIRM THAT THE TOP ELEVATION ON THE PROPOSED STANDPIPE IS AT THE SAME ELEVATION AS THE EXISTING STANDPIPE.
- ④ ROOF FILTER DAM T.Y.Z.
T.S.S. - TOP OF STRUCTURE

- NOTES:**
1. THE CONTRACTOR SHALL COORDINATE WITH H.C. (D. NO. 8) PRIOR TO ANY WORK BEING DONE ON OR NEAR THE PROPOSED STRUCTURES. NOTIFY H.C. PRIOR TO ANY WORK.
 2. PRIOR TO WORKING OUTSIDE THE RIGHT OF WAY THE CONTRACTOR SHALL NOTIFY PROPERTY OWNERS. CAUTION SHALL BE TAKEN NOT TO DAMAGE EXISTING FENCES, TREES, ETC. ANY DAMAGES DONE TO THEIR PROPERTY SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE.
 3. THE CONTRACTOR SHALL CONFIRM THAT ALL UTILITIES WITH EXISTING UTILITIES HAVE BEEN REVEALED BY ADVANCE UTILITY LOCATIONS. THE RESPONSIBILITY OF THE CONTRACTOR, ALL PVE BLOWNS, AND CONNECTIONS SHALL BE NECESSARY TO PERMITMENT TO BE MADE.
 4. CONDUCT CUT & REPAIRS OPERATIONS. CONTRACTOR SHALL UTILIZE APPROPRIATE TRAFFIC CONTROL MEASURES INCLUDING A FLAG PERSON.
 5. SEE DRAWING DETAILS SHEET FOR REVEALATION PIPE BEDDING AND BACRAL DETAIL.

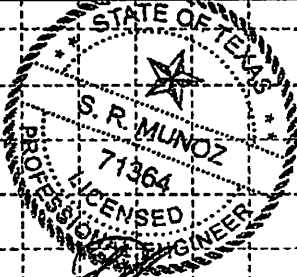
NOTES:

1. EXISTING ABOVE GROUND UTILITIES AND TOPOGRAPHY HAVE BEEN PLOTTED BY DIRECT FIELD INFORMATION, AND AS SPOTTED BY UTILITY LOCATE REQUEST. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES TO ESTABLISHING THEIR EXACT LOCATION, DEPTH, AND SIZE. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE REPLACEMENT OR REPAIR OF ALL CUT OR BROKEN WATER LINES, IRRIGATION LINES, FORCE MAINS, SPRINKLER SYSTEMS, GAS LINES, POWER LINES, TELEPHONE CABLES, AND/OR ANY OTHER UTILITIES.

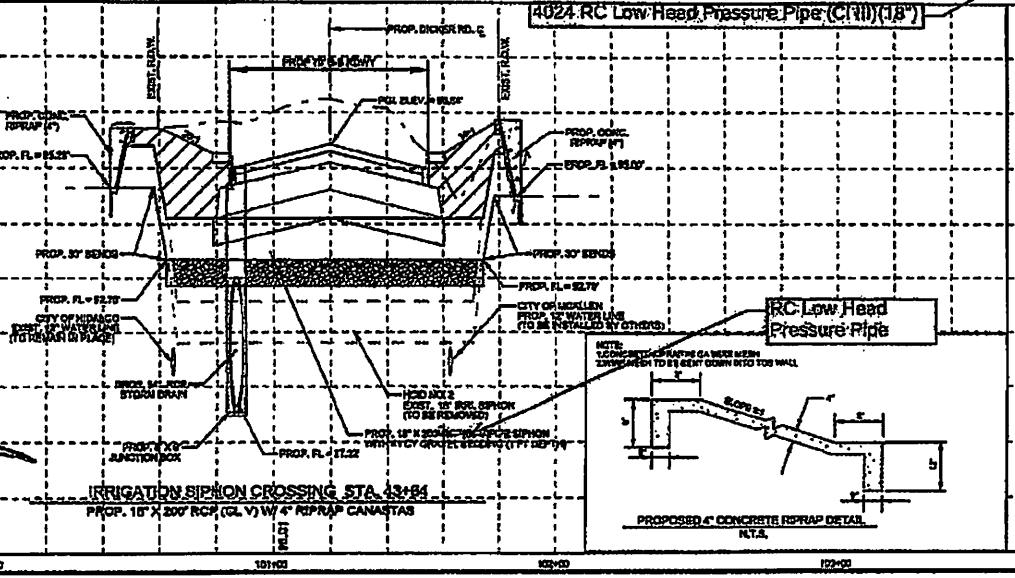
SHEET SUMMARY

ITEM	DESCRIPTION	LINE	QUANTITY
402	CONCRETE REPAIR	BY	10
403	STANDARD SHEET	BY	10
404	CONCRETE REPAIR	BY	10
405	CONCRETE REPAIR	BY	10
406	CONCRETE REPAIR	BY	10
407	CONCRETE REPAIR	BY	10
408	CONCRETE REPAIR	BY	10
409	CONCRETE REPAIR	BY	10
410	CONCRETE REPAIR	BY	10

CO #2 - Quantity & Sheet Adjustment
 Adjust - 7x5RCB & 7RCB
 Adjust - 18" RCP & 24" RCP (Spl)
 Change - 18" RCP(T&G) to 18" (Spl)
 Change 18" CI V to 18" RCLHPP(tr)
 Add Standard Sheet Concrete Piling



11/31/2020
 CD #2



100
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86
84

100-00 101+00 102+00 103+00 104+00

DATE: 11/31/2020
 FILE: 10000001.dwg

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THE COUNTY OF HIDALGO
 Pct 2

TEXAS DEPARTMENT OF TRANSPORTATION

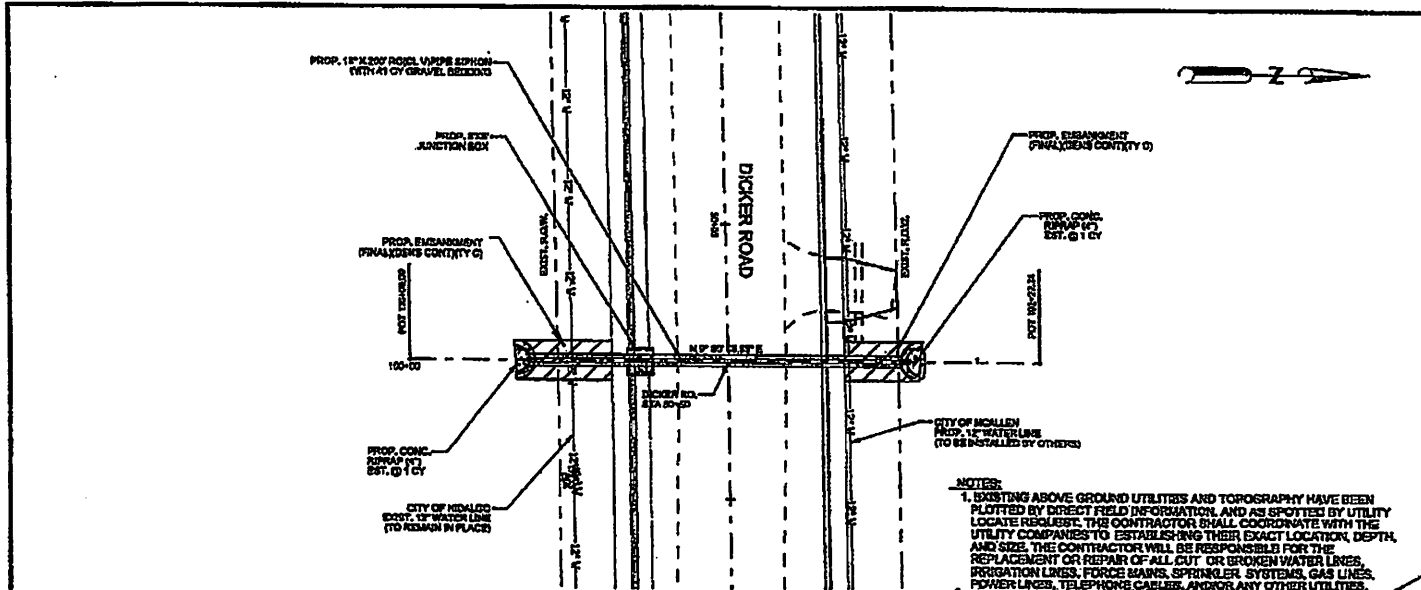
FEDERAL INFRASTRUCTURE CROSSING

DICKER ROAD IRRIGATION LAYOUT 1
 HCWD No 3
 STA 43+84

SCALE: 1" = 10'-0"

DATE	BY	APP'D	REV	DESCRIPTION
08/01/2020	CD	CD	1	ISSUED FOR PERMIT
08/01/2020	CD	CD	2	ISSUED FOR PERMIT
08/01/2020	CD	CD	3	ISSUED FOR PERMIT
08/01/2020	CD	CD	4	ISSUED FOR PERMIT
08/01/2020	CD	CD	5	ISSUED FOR PERMIT

SHEET 1 OF 8



- LEGEND:**
- ⊖ NON-PAY, SUBSIDIARY TO PAYMENT BID ITEMS.
 - ⊕ TO BE REMOVED UNDER ITEM OR INCLUDES PAYMENT FOR REMOVAL OF ALL APPLICABLES.
 - Ⓢ NON-PAY ITEM FOR CONTRACTOR'S INFORMATION ONLY.
 - ⊕ THE CONTRACTOR SHALL CONFIRM THAT THE TOP ELEVATION ON THE PROPOSED STAKEPIPE IS AT THE SAME ELEVATION AS THE EXISTING STAKEPIPE.
- ITEMS:**
- Ⓢ ROOM FILTER DAM TYPE
 - Ⓢ TOP OF STRUCTURE
- NOTES:**
1. THE CONTRACTOR WILL COORDINATE WITH ALL UTILITIES AND NEARBY PROPERTIES ANY WORK DONE ON OR NEAR THE EXISTING STRUCTURES. BEFORE WORKING, CONTRACTOR SHALL BE RESPONSIBLE TO DAMAGE EXISTING PIPES, WIRES, ETC. ANY DAMAGED DOGS TO THEN PROPERTY SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE.
 2. THE CONTRACTOR SHALL CONFIRM THAT EXISTING UTILITIES HAVE BEEN REVEALED IN ADVANCE OF CONSTRUCTION. DAMAGES CAUSED BY OR TO EXISTING UTILITIES ARE THE RESPONSIBILITY OF THE CONTRACTOR.
 3. ALL PIPES, WIRES, AND CONNECTIONS SHALL BE REPAIRED TO MEET ALL APPLICABLE STANDARDS.
 4. DURING CUT & RESTORE OPERATIONS, CONTRACTOR SHALL UTILIZE APPROPRIATE TRAFFIC CONTROL MEASURES INCLUDING A FLAG PERSON.
 5. SEE DRAINAGE DETAILS SHEET FOR PROTECTION FOR EXISTING AND DRAINAGE DETAIL.

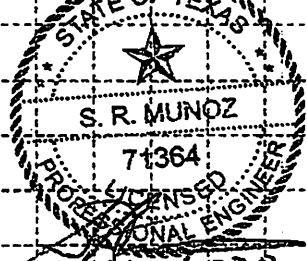
ITEM SUMMARY

ITEM	DESCRIPTION	UNIT	QUANTITY
Ⓢ	REMOVE EXISTING	CY	10
Ⓢ	REMOVE EXISTING	CY	10
Ⓢ	REMOVE EXISTING	CY	10
Ⓢ	REMOVE EXISTING	CY	10
Ⓢ	REMOVE EXISTING	CY	10
Ⓢ	REMOVE EXISTING	CY	10
Ⓢ	REMOVE EXISTING	CY	10
Ⓢ	REMOVE EXISTING	CY	10
Ⓢ	REMOVE EXISTING	CY	10
Ⓢ	REMOVE EXISTING	CY	10

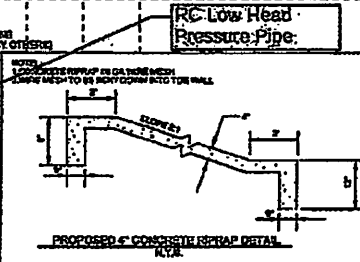
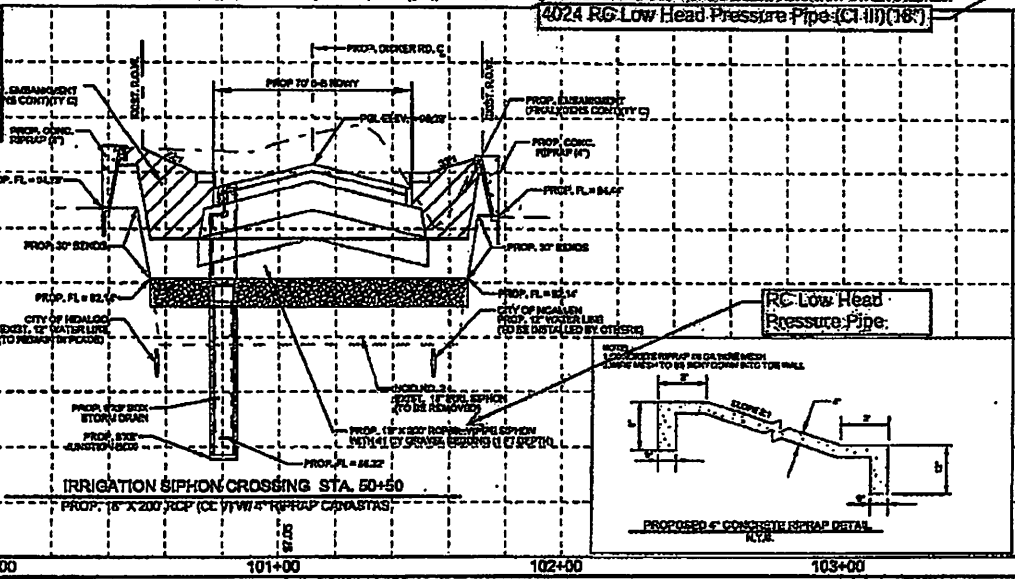
NOTES:

1. EXISTING ABOVE GROUND UTILITIES AND TOPOGRAPHY HAVE BEEN PLOTTED BY EXIST FIELD INFORMATION, AND AS SPOTTED BY UTILITY LOCATE REQUEST. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES TO ESTABLISHING THEIR EXACT LOCATION, DEPTH, AND SIZE. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE REPLACEMENT OR REPAIR OF ALL CUT OR BROKEN WATER LINES, IRRIGATION LINES, FORCE MAINS, SPRINKLER SYSTEMS, GAS LINES, POWER LINES, TELEPHONE CABLES, AND/OR ANY OTHER UTILITIES.

CO #2 - Quantity & Sheet Adjustment
 Adjust - 7x5RCB-9x7RCB
 Adjust - 18" RCP & 24" RCP (Spl)
 Change - 18" RCP(T&G) to 18" (Spl)
 Change 18" CIV to 18" RCLHPP(Irr)
 Add Standard Span - Concrete Piling



12/21/2020
CO#2



ROBERTO PINA CARRANZA DATE 02/02/20

The County of Hidalgo Pct 2

Texas Department of Transportation

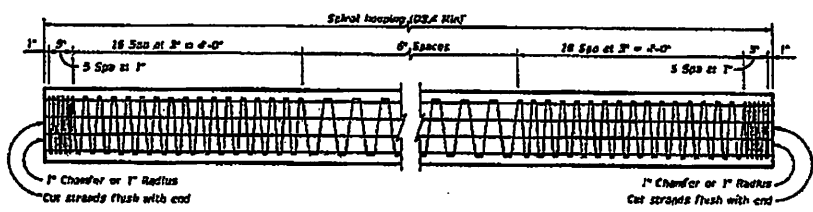
TRANS INFORMATION GROUP
 Consulting Engineers
 1201 E. Commerce St.
 Suite 1000, El Paso, TX 79902
 915-733-6200

DICKER ROAD IRRIGATION LAYOUT 2
 HCWID No 3
 STA 50+50

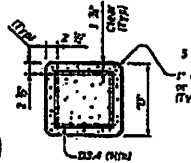
NO.	DATE	BY	APP.	REVISION
1	02/02	CS	PS	ISSUED FOR PERMIT
2	02/02	CS	PS	ISSUED FOR PERMIT
3	02/02	CS	PS	ISSUED FOR PERMIT
4	02/02	CS	PS	ISSUED FOR PERMIT

TEXAS PER HIDALGO NO 3 HIDALGO T&E

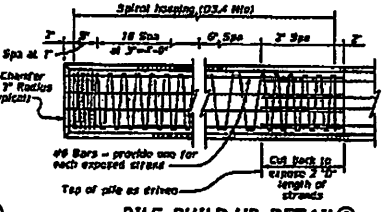
DATE: 02/02/20



PILE DETAILS



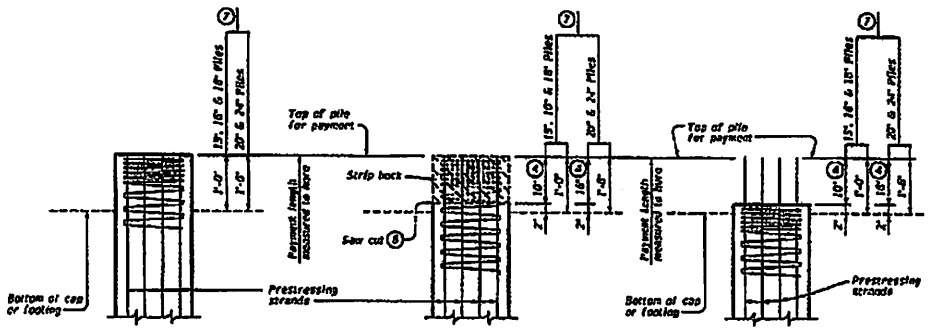
TYPICAL SECTION THRU PILE



PILE BUILD-UP DETAIL

TABLE OF PROPERTIES FOR PRESTRESSED CONCRETE PILES						
Pile Size (in)	Area of Pile Section (in ²)	Weight (lb/ft)	Prestressing			
			No.	Initial Prestress Force (kips)	Concrete Final Prestress (ksi)	(100% Loss)
10"	254	5,540	8	231	774	
18"	322	8,600	10	289	763	
20"	398	13,180	14	405	684	
24"	574	27,360	20	520	770	

- Locate strands symmetrically about the axis of the pile, with no more than one strand difference between any two adjacent sides.
- Provide Class 5 concrete ($f'_c = 4,000$ psi) for pile butt-ends.
- Use typical pile concrete strengths unless shown otherwise elsewhere in the plans. Payment for piles will be in accordance with the details shown. Strip back piling and extend prestressing strands into substructure areas piling conflicts with substructure reinforcing or when the side cover from pile edge to substructure edge is less than 2" after driving.
- When stripped back piles are required, strip back piling after driving or cast short with strands protruding from top of piling as shown.
- Provide 370 ksi low relaxation strands tensioned to 28.9 kips each. If an optional design is used, provide a minimum concrete final prestress of 750 psi. Submit optional design for approval.
- Saw cut 1/2" deep around perimeter of pile at the broachback line.
- Unless shown otherwise.
- Use deformed bar anchors (DBA), electric arc-welded to stinger anchor plate with complete fusion.
- Place center of stinger within 1/4" of center of piling.



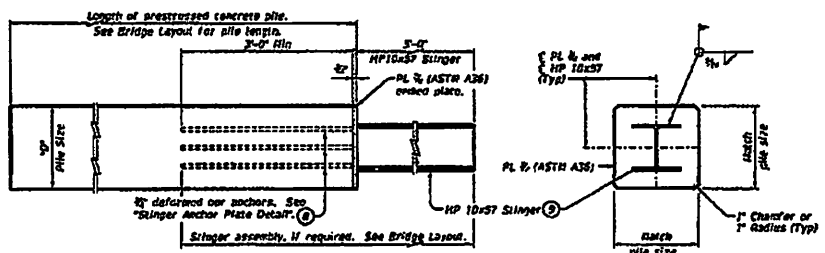
PILE EMBEDMENT DETAILS

GO #2 - Quantity & Sheet Adjustment
 Adjust - 7xSRCB-8x7RCB
 Adjust - 18" RCP & 24" RCP (Sp)
 Change - 18" RCP(T&G) to 18" (Sp)
 Change 18" CI V to 18" RCLHPP(In)
 Add Standard Sheet - Concrete Piling

FABRICATION NOTES:
 Provide Class 5 concrete. Provide sulfate resistant concrete when required.
 Minimum release strength, $f'_c = 3,000$ psi.
 Minimum 28-day strength, $f'_c = 4,000$ psi.
 All dimensions relating to prestressing steel are to centers of strands.
 Provide Grade 60 reinforcing steel.
 Provide deformed wire reinforcement meeting ASTM A1964.

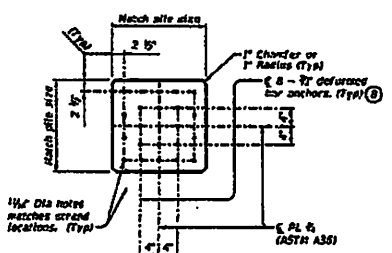
GENERAL NOTES:
 See Bridge Layout for size, number, and length of piling.
 See Bridge Layout or elsewhere in the plans for stinger assembly requirements. Stinger assembly is subsidiary to the pile.
 Shop drawings submitted and approval is not required if fabrication is in accordance with the details shown on this standard.
 For treatment of damaged pile and the fitting tops, see the Concrete Repair Manual.

Cover dimensions are clear dimensions, unless noted otherwise.



TYPICAL PILE AND STINGER ASSEMBLY DETAILS

Pile strands, reinforcing, and holes in stinger anchor plate not shown for clarity.



STINGER ANCHOR PLATE DETAIL

Showing stinger anchor plate for 20" pile, stinger anchor plates for other pile sizes are smaller.

UNLESS SHOWN OTHERWISE, ALL DIMENSIONS ARE TO BE TAKEN FROM THE FACE OF THE PILING. THE CENTER OF GRAVITY OF THE PILING SHALL BE LOCATED WITHIN THE PILING. THE CENTER OF GRAVITY OF THE PILING SHALL BE LOCATED WITHIN THE PILING. THE CENTER OF GRAVITY OF THE PILING SHALL BE LOCATED WITHIN THE PILING.

DATE: 2/22/04

Texas Department of Transportation		Bridge Building Standard	
PRESTRESSED CONCRETE PILING			
CP			
Rev	Description	By	Check
01	Initial		
02	Revised		
03	Revised		
04	Revised		
05	Revised		
06	Revised		
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