

Change Order #4 Dicker Road

Owner: Hidalgo County Precinct #2

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

From: B2Z Engineering

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

Change Order #4 has been approved to make the following Contract Changes:

Description:

Change Order #4 allows for changes to the current backfill requirements in order to expedite construction and reduce costs for all the reinforced concrete pipe and reinforced concrete boxes installed on Dicker Road. The plans were designed to use a select gravel backfill from six inches below the bottom of each pipe or box, around the sides from one to two feet and above the tops of each at four inches. These same details show the entire trench and backfill for both pipe and box to be wrapped with a geotextile fabric which is not a common practice for backfilling. Both details will be redesigned to eliminate the select gravel backfill and reduce the usage of geotextile filter fabric.

The geotextile filter fabric is designed to keep silt from infiltrating each concrete pipe and box joint. Since this project already included gasketed concrete pipe, it does not require the need for filter fabric and will be removed. The concrete boxes do not use a gasket in between joints and the contractor has been advised to only wrap each joint and not the trench. Wrapping each joint has better control of operations and allows for the same results at a reduced amount.

The select backfill requirements will be replaced with the natural dirt embankment (free dirt). Natural dirt with a good plasticity index is excellent material to use when backfilling for concrete pipe and boxes. The select backfill is good material (but at \$55/CY), while the free dirt will meet the same requirements. The select backfill will only be used from six to twelve inches under the concrete pipe and concrete boxes. Concrete pipe and box are fabricated with a 4000 – 5000 psi concrete that is designed to be used as a natural embankment backfill under most circumstances. The natural backfill test reports for the embankment are attached for referencing.

The change order will expedite construction and save money. The select backfill bid item quantities have been reduced and plan sheets were modified to reflect CO #4 on Dicker Road. This cost saving plan has been presented, reviewed and accepted by both the County and the Contractor for Change Order No.4.

Purpose:

Hidalgo County Precinct #2 Office identified concrete pipe and box backfilling details that can be modified in order to save money and time, without compromising the overall integrity of the project. This change order allows the County to save funds by foregoing the use of a select backfill and by reducing the geotextile wrap around the entire trench.

The change order has been signed by the Contractor and AE. There is no additional funding involved, only a reduction in quantities. The County has reviewed Change Order #4 and agrees with these modifications. The changes do not impact the original environmental assessment, do not impact TDLR elements, do not impact wetlands or waters of the US. The changes do not impact archeological, historical or social issues; endangered species or any other regulated areas within the project will not see a change. This change order does not cause a disturbance that would require a Construction Site Notice (CSN) or Notice of Intent (NOI). CO #4 will not add time.

B2Z has reviewed the change order with Precinct #2, to explain the breakdown of items and payment according to the governing Specification 1L-9L. See TxDOT Change Order Form 2146-L used to describe the bid item quantity reduction and cost savings. Revised plan sheets include 11a, 13a, 14a, 151a, 151b, 152a-157a, and 159a-168a.

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>\$287,083.94</u>	Previous Change Orders 0 Working Days

Contract Price prior to this Change Order <u>\$16,806,146.96</u>	Contract Time prior to this Change Order <u>460 Working Days</u>
Net increase/decrease of the Change Order <u>-\$170,885.00</u>	Net increase/decrease of the Change Order <u>0 Working Days</u>
Contract Price with all approved Change Orders <u>\$16,635,261.96</u>	Contract Time with all approved Change Orders <u>460 Working Days</u>

CONSTRUCTION CONTRACT CHANGE ORDER NUMBER: 4

1. CONTRACTOR: Earthworks Enterprise, LLC
2. Change Order Work Limits: Sta. 11+11 to Sta. 144+92.47
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.

Reduce Struct Excav (Special) quantity (a manufactured gravel used under, around and over the top of each structure), and replace it with the natural soil excavated after installing the concrete pipe (RCP) and boxes (RCB) on Dicker Road. The plan quantity for Struct Excav (Special) will be reduced to bedding only, at 6" to 12". Concrete pipe uses a sealed rubber gasket, not requiring any geotextile. Wrap each concrete box joints with geotextile fabric to min. silt infiltration. No time is added.

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

5. New or revised plan sheet(s) are attached and numbered: 11a, 13a, 14a, 151a, 151b, 152a-157a and 159a-168a.

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>N/A</u> Days added on this C.O.: <u>0</u></p> <p>Amt. added by this change order: <u>\$-170,885.00</u></p>
<p>THE CONTRACTOR By <u>[Signature]</u> Date <u>3-18-2020</u> Typed/Printed Name _____ Typed/Printed Title _____</p>	<p>For TxDOT use only:</p> <p>Days participating: _____</p> <p>Amount participating: _____</p> <p>Signature _____ Date _____</p> <p>Name/Title _____</p>

RECOMMENDED FOR EXECUTION:

<p><u>[Signature]</u> <u>3/18/2020</u> Name/Title _____ Date _____</p>	<p>Name/Title _____ Date _____ <input type="checkbox"/> APPROVED <input type="checkbox"/> REQUEST APPROVAL</p>
<p>Name/Title _____ Date _____</p>	<p>Name/Title _____ Date _____ <input type="checkbox"/> APPROVED <input type="checkbox"/> REQUEST APPROVAL</p>
<p>Name/Title _____ Date _____</p>	<p>Name/Title _____ Date _____ <input type="checkbox"/> APPROVED <input type="checkbox"/> REQUEST APPROVAL</p>
<p>Name/Title _____ Date _____</p>	<p>Name/Title _____ Date _____ <input type="checkbox"/> APPROVED</p>

Engineer's Seal:



ESTIMATE QUANTITY

ITEM NO.	DESCRIPTION	UNIT	TOTAL	
			EST	CO #2
0100 6002	PREPARING ROW	STA	136.4	
0104 6009	REMOVING CONC (RIPRAP)	SY	470.0	
0104 6015	REMOVING CONC (SIDEWALKS)	SY	35.0	
0104 6017	REMOVING CONC (DRIVEWAYS)	SY	1433.0	
0104 6022	REMOVING CONC (CURB AND GUTTER)	LF	1419.0	
0104 6032	REMOVING CONC (WHEELCHAIR RAMP)	SY	122.0	
0104 6037	REMOVE CONC (RAIL)	LF	540.0	
0110 6001	EXCAVATION (ROADWAY)	CY	62071.0	
0132 6006	EMBANKMENT (FINAL)(DENS CONT)(TY C)	CY	51338.0	
0160 6005	FURNISHING AND PLACING TOPSOIL	CY	50.0	
0164 6029	CELL FBR MLCH SEED(TEMP)(WARM)	SY	50955.0	
0164 6031	CELL FBR MLCH SEED(TEMP)(COOL)	SY	50955.0	
0168 6001	VEGETATIVE WATERING	MG	1000.0	
0169 6003	SOIL RETENTION BLANKETS (CL 1) (TY C)	SY	244.0	
0204 6003	SPRINKLING (DUST CONTROL)	MG	545.6	
0216 6001	PROOF ROLLING	HR	60.0	
0247 6225	FL BS (RDWY DEL)(TY E GR 4)(FNAL POS)	CY	18253.0	
0251 6185	REWORK BS MATL (TY B)(11")(DENS CONT)	CY	18013.0	
0260 6011	LIME TRT (EXST MATL) (12")	SY	105861.0	
0260 6016	LIME (HYD, COM, OR QK(SLURRY))	TON	3682.0	
0260 6058	LIME TRT(MIX EXST MATL & NEW BASE)(11")	SY	102902.0	
0305 6003	SALV, HAUL & STKPL RCL APH PV (2 TO 4")	SY	58952.0	
0310 6009	PRIME COAT (MC-30)	GAL	20580.0	CO #4
0341 6008	D-GR HMA TY-B PG64-22	TON	24102.0	
0341 6047	D-GR HMA TY-D SAC-A PG76-22	TON	16453.0	
0354 6041	PLANE ASPH CONC PAV (1.5")	SY	5647.0	
0400 6005	CEM STABIL BKFL	CY	720.6	
0400 6008	CUT & RESTORING ASPH PAV	SY	603.0	
0400 6010	STRUCT EXCAV (SPECIAL)	CY	6201.0	3174.0
0401 6001	FLOWABLE BACKFILL	CY	15.0	
0402 6001	TRENCH EXCAVATION PROTECTION	LF	14113.0	
0403 6001	TEMPORARY SPL SHORING	SF	2005.0	
0409 6002	PRESTR CONC PIL (18 IN SQ)	LF	1218.0	
0416 6030	DRILL SHAFT (TRF SIG POLE) (24 IN)	LF	126.0	
0416 6032	DRILL SHAFT (TRF SIG POLE) (36 IN)	LF	98.0	
0420 6019	CL C CONC (ABUT)(EXTEND)	CY	117.8	
0420 6033	CL C CONC (CAP)(EXTEND)	CY	23.0	
0422 6003	REINF CONC SLAB (EXTEND SLAB)	SF	8631.0	
0425 6037	PRESTR CONC GIRDER (TX40)	LF	427.9	
0425 6039	PRESTR CONC GIRDER (TX54)	LF	372.3	
0432 6001	RIPRAP (CONC)(4 IN)	CY	993.0	
0432 6002	RIPRAP (CONC)(5 IN)	CY	186.0	
0442 6007	STR STEEL (MISC NON - BRIDGE)	LB	546.0	
0450 6023	RAIL (TY SSTR)	LF	625.5	
0450 6042	RAIL (TY PR1)	LF	3505.5	
0452 2003	REMOVE RAIL (CONC POST & MTL ELEM)	LF	540.0	
0454 6001	SEALED EXPANSION JOINT (4 IN) (SEJ - A)	LF	127.5	
0462 6003	CONC BOX CULV (4 FT X 2 FT)	LF	63.0	
0462 6004	CONC BOX CULV (4 FT X 3 FT)	LF	339.0	
0462 6012	CONC BOX CULV (6 FT X 5 FT)	LF	2452.0	
0462 6013	CONC BOX CULV (6 FT X 6 FT)	LF	1512.0	
0462 6060	CONC BOX CULV (7 FT X 5 FT)(EXTEND)	LF	148.0	126.0
0462 6070	CONC BOX CULV (9 FT X 7 FT)(EXTEND)	LF	223.0	472.0
0464 6003	RC PIPE (CL III)(18 IN)	LF	206.0	0.0
0464 6025	RC PIPE (CL V)(18 IN)	LF	406.0	0.0
0464 6038	RC PIPE (CL III)(18 IN)(SPL)	LF	4474.0	1259.0
0464 6039	RC PIPE (CL III)(24 IN)(SPL)	LF	1424.0	1639.0
0464 6040	RC PIPE (CL III)(30 IN)(SPL)	LF	1931.0	
0464 6041	RC PIPE (CL III)(36 IN)(SPL)	LF	250.0	
0464 6042	RC PIPE (CL III)(42 IN)(SPL)	LF	1037.0	
0464 6043	RC PIPE (CL III)(48 IN)(SPL)	LF	520.0	
0464 6044	RC PIPE (CL III)(54 IN)(SPL)	LF	1651.0	

ESTIMATE QUANTITY (CONT)

ITEM NO.	DESCRIPTION	UNIT	TOTAL	
			EST	CO #2
0464 6045	RC PIPE (CL III)(60 IN)(SPL)	LF	915	
0465 6029	INLET (COMPL)(PCU)(3FT)(NONE)	EA	19	
0465 6030	INLET (COMPL)(PCU)(3FT)(LEFT)	EA	15	
0465 6031	INLET (COMPL)(PCU)(3FT)(RIGHT)	EA	8	
0465 6033	INLET (COMPL)(PCU)(4FT)(NONE)	EA	1	
0465 6035	INLET (COMPL)(PCU)(4FT)(RIGHT)	EA	2	
0465 6037	INLET (COMPL)(PCU)(5FT)(NONE)	EA	2	
0465 6038	INLET (COMPL)(PCU)(5FT)(LEFT)	EA	1	
0465 6039	INLET (COMPL)(PCU)(5FT)(RIGHT)	EA	1	
0465 6041	INLET (COMPL)(PCU)(6FT)(NONE)	EA	3	
0465 6074	INLET (COMPL)(PSL)(RC)(5FTX5FT)	EA	4	
0465 6076	INLET (COMPL)(PSL)(RC)(6FTX6FT)	EA	2	
0465 6077	INLET (COMPL)(PSL)(RC)(8FTX8FT)	EA	5	
0465 6158	INLET (COMPL)(PAZD)(FG)(3FTX3FT-3FTX3FT)	EA	5	
0465 6160	INLET (COMPL)(PAZD)(FG)(4FTX4FT-4FTX4FT)	EA	1	
0465 6176	INLET (COMPL)(CURB)(TY C1) (MOD)	EA	10	
0467 6356	SET (TY II) (18 IN) (RCP) (3: 1) (C)	EA	2	
0467 6388	SET (TY II) (24 IN) (RCP) (3: 1) (C)	EA	1	
0480 6001	CLEAN EXIST CULVERTS	EA	2	
0496 6003	REMOV STR (MANHOLE)	EA	1	
0496 6005	REMOV STR (WINGWALL)	EA	4	
0496 6007	REMOV STR (PIPE)	LF	5979	
0496 9001	REMOVE STRUCT (EXIST STANDPIPE)	EA	3	
0496 9002	REMOVE STRUCT (EXIST IRRIG VALVE)	EA	3	
0785 6011	BRIDGE JOINT REPLACEMENT (SEJ)	LF	361	
1007 9001	IRRIG WELL (48") (STANDPIPE)	EA	3	
1007 9002	IRRIG VALVE (14") ALFALFA	EA	3	
1008 6006	PRSSR IRRIG PVC PIPE (15")	LF	388	
7016 6090	CASING (STEEL) (24 IN) (OPEN TRENCH)	LF	258	
0500 6001	MOBILIZATION	LS	1	
0502 6001	BARRICADES, SIGNS AND TRAFFIC HANDLING	MO	23	
0506 6001	ROCK FILTER DAMS (INSTALL) (TY 1)	LF	92	
0506 6004	ROCK FILTER DAMS (INSTALL) (TY 4)	LF	9	
0506 6011	ROCK FILTER DAMS (REMOVE)	LF	101	
0506 6021	CONSTRUCTION EXITS (INSTALL) (TY 2)	SY	1463	
0506 6024	CONSTRUCTION EXITS (REMOVE)	SY	1463	
0506 6031	FRNT END LOADER WORK (ERSN & SEDM CONT)	HR	60	
0506 6038	TEMP SEDMT CONT FENCE (INSTALL)	LF	5147	
0506 6039	TEMP SEDMT CONT FENCE (REMOVE)	LF	5147	
0506 6041	BIODEG EROSN CONT LOGS (INSTL) (12")	LF	1085	
0506 6043	BIODEG EROSN CONT LOGS (REMOVE)	LF	1085	
0508 6001	CONSTRUCTING DETOURS	SY	13864	
0512 6001	PORT CTB (FUR & INST)(SGL SLOPE)(TY 1)	LF	3180	
0512 6009	PORT CTB (FUR & INST)(LOW PROF)(TY 1)	LF	6880	
0512 6010	PORT CTB (FUR & INST)(LOW PROF)(TY 2)	LF	320	
0512 6025	PORT CTB (MOVE)(SGL SLP)(TY 1)	LF	2130	
0512 6049	PORT CTB (REMOVE)(SGL SLP)(TY 1)	LF	3180	
0512 6057	PORT CTB (REMOVE)(LOW PROF)(TY 1)	LF	6880	
0512 6058	PORT CTB (REMOVE)(LOW PROF)(TY 2)	LF	320	
0529 6029	CONC CURB & GUTTER (TY A)	LF	26665	
0529 6031	CONC CURB & GUTTER (VALLEY GUTTER) (48")	LF	89	
0530 6004	DRIVEWAYS (CONC)	SY	831	
0530 6005	DRIVEWAYS (ACP)	SY	6225	
0531 6001	CONC SIDEWALKS (4")	SY	16141	
0531 6004	CURB RAMPS (TY 1)	EA	28	
0540 6001	MTL W-BEAM GD FEN (TIM POST)	LF	575	
4024-6002	RC LOW HEAD PRSSR PIPE (CL III)(18")	LF	400	



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(Irr)
 Add Standard Sheet - Concrete Piling

CO #4 - Reduce Structural
 Excavation(SPL)

The County of Hidalgo
 Pct 2

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 Texas Department of Transportation

TEDSI INFRASTRUCTURE GROUP
 Consulting Engineers
 1201 E. Expressway 83
 Mission, Texas 78572
 (956) 424-7898

DICKER ROAD
 ESTIMATE QUANTITY

SHEET 1 OF 2

FED. RD DIST. NO.	COUNTY	SECT	JOB	HIGHWAY	
06	0921	02	312	DICKER ROAD	
STATE	DIST	COUNTY	PCT	CITY	SHEET NO.
TEXAS	PHR	HIDALGO	No 2	HIDALGO	11a

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All CO #2

CO #2

REMOVAL SUMMARY

LOCATION	0104 6009	0104 6015	0104 6017	0104 6022	0104 6032	0104 6037	0305 6003	401 6001	0452 2003	0496 6003	0496 6005	0496 6007	0542 6001	0542 6002
	REMOV CONC (RIPRAP) (SY)	REMOVE CONC (SDWLK) (SY)	REMOVE CONC (DRIVEWAYS) (SY)	REMOV CONC (CURB & GUTTER) (LF)	REMOV CONC (WHEELCHAIR RAMP) (SY)	REMOV CONC (RAIL) (LF)	SALV, HAUL & STKPL RCL APH PV (2" TO 4") (SY)	FLOWABLE BACKFILL (CY)	REMOVE RAIL (CONC POST & MTL ELEM) (LF)	REMOVE STRUCT (MANHOLE) (EA)	REMOVE STRUC (WINGWALL) (EA)	REMOVE STRUCT (PIPE) (LF)	REMOVING METAL BEAM GUARD FENCE (LF)	REMOVING TERMINAL ANCHOR SECTION (EA)
DICKER ROAD														
REM 1 of 6			303				10164					559		
REM 2 of 6			738				10209	15				438		
REM 3 of 6			188				10512			1		2167		
REM 4 of 6	450						9750	290	290		4	1127	2120	4
REM 5 of 6		35	204	323			11750					453	205	2
REM 6 of 6				1096	122		6567		250			305	476	2
TOTAL:	450	35	1433	1419	122	540	58952	15	540	1	4	5049	2801	8

*
**

CONTRACTOR INFORMATION ONLY (SUBSIDIARY)
SURPLUS MATERIAL TO BE HAULED OFF, TO PCT 2 FIELD OPERATIONS OFFICE, 4011 S. VETERANS BLVD, SAN JUAN, TX 78589
ITEM 305 SHOWN ON THIS TABLE FOR INFORMATION ONLY, IT IS QUANTIFY ON ROADWAY SUMMARY



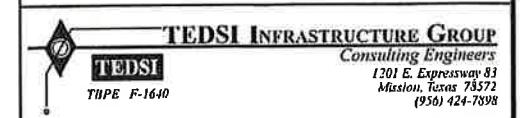
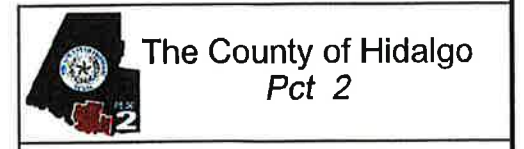
IRRIGATION SUMMARY

LOCATION	* 400 6001	400 6005	400 6010	402 6001	432 6001	464 6025	496 9001	496 9002	496 6007	1007 9001	1007 9002	1008 6006	7016 6090
	STRUCT EXCAV (CY)	CEM STABIL BKFL (CY)	STRUCT EXCAV (SPECIAL) (CY)	TRENCH EXCAVATION PROTECTION (LF)	RIPRAP (CONC) (4") (CY)	RC PIPE (CL V) (18 IN) (LF)	REMOVE STRUCT (EXIST STANDPIPE) (EA)	REMOVE STRUCT (EXIST IRRIG VALVE) (EA)	REMOVE STRUCT PIPE (LF)	IRRIG WELL (48") (STANDPIPE) (EA)	IRRIG VALVE (14") ALFALFA (EA)	PRSSR IRRIG PVC PIPE (15") (LF)	CASING STEEL (OPEN TRENCH) (24") (LF)
DICKER ROAD IRRIGATION													
IRRIG. SHEET 1 OF 5	148	38	20	206	2	200			200				
IRRIG. SHEET 2 OF 5	148	38	20	206	2	200			200				
IRRIG. SHEET 3 OF 5	116	23	9	135				1	130		1	117	86
IRRIG. SHEET 4 OF 5	104	25	11	147				1	140		1	140	86
IRRIG. SHEET 5 OF 5	112	23	10	126			1	1	122	1	1	122	86
PROJECT TOTAL	628	147	70	820	4	400	1	3	792	1	3	379	258

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

**CO #4 - Reduce Structural
Excavation(SPL)**

REVISED 2/27/2019



**DICKER ROAD
REMOVAL & IRRIGATION
SUMMARY**

SHEET 1 OF 1

FED. RD DIST. NO.	CONT.	SECT.	JOB	HIGHWAY	
06	0921	02	312	DICKER ROAD	
STATE	DIST	COUNTY	PCT	CITY	SHEET NO.
TEXAS	PHR	HIDALGO	No 2	HIDALGO	13a

DATE: 4/26/2018 6:43:37 PM
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DRAINAGE SUMMARY

LOCATION	400 6001 (*) STRUCT EXCAV	400 6002 (*) STRUCT EXCAV (BOX)	400 6010 STRUCT EXCAV (SPECIAL)	402 6001 TRENCH EXCAV. PROTECT.	462 6003 CONC BOX CULV (4FTx2FT)	462 6004 CONC BOX CULV (4FTx3FT)	462 6012 CONC BOX CULV (6FTx5FT)	462 6013 CONC BOX CULV (6FTx6FT)	464 6038 RC PIPE (CL III) (18 IN) (SPL)	464 6039 RC PIPE (CL III) (24 IN) (SPL)	464 6040 RC PIPE (CL III) (30 IN) (SPL)	464 6041 RC PIPE (CL III) (36 IN) (SPL)	464 6042 RC PIPE (CL III) (42 IN) (SPL)	464 6043 RC PIPE (CL III) (48 IN) (SPL)	464 6044 RC PIPE (CL III) (54 IN) (SPL)	464 6045 RC PIPE (CL III) (60 IN) (SPL)
	(CY)	(CY)	(CY)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)
DICKER ROAD																
U&D 1 OF 12			118	1,034					399.0	532.0	137					
U&D 2 OF 12		430	152	844	63	339				63	379					
U&D 3 OF 12			270	1,362						61	240		646	190	227	
U&D 4 OF 12		347	339	1,341			1,015		92	120	60				148	
U&D 5 OF 12		400	352	1,495			1,169		147	120	60					
U&D 6 OF 12		419	232	1,354			268	955	44	120						
U&D 7 OF 12		192		557				557								
U&D 8 OF 12			211	1,290						190	390	250	391	72		
U&D 9 OF 12			285	1,306						62	62			258	924	
U&D 10 OF 12			325	1,343					84	86	60				352	869
U&D 11 OF 12			152	1,203					329	285	543					46
U&D 12 OF 12			16	164					164							
THROUGHOUT PROJECT	33,659															
TOTAL	33,659	1,788	2452	13,293	63	339	2,452	1,512	1,259.0	1,539.0	1,931	250	1,037	520	1,851	915

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

CO #4

CO #2

CO #2

DRAINAGE SUMMARY (CONTINUATION)

LOCATION	465 6029 INLET (COMPL) (PCU) (3FT) (NONE) (EA)	465 6030 INLET (COMPL) (PCU) (3FT) (LEFT) (EA)	465 6031 INLET (COMPL) (PCU) (3FT) (RIGHT) (EA)	465 6033 INLET (COMPL) (PCU) (4FT) (NONE) (EA)	465 6035 INLET (COMPL) (PCU) (4FT) (RIGHT) (EA)	465 6037 INLET (COMPL) (PCU) (5FT) (NONE) (EA)	465 6038 INLET (COMPL) (PCU) (5FT) (LEFT) (EA)	465 6039 INLET (COMPL) (PCU) (5FT) (RIGHT) (EA)	465 6041 INLET (COMPL) (PCU) (6FT) (NONE) (EA)	465 6074 INLET (COMPL) (PSL) (RC) (5FTx5FT) (EA)	465 6076 INLET (COMPL) (PSL) (RC) (6FTx6FT) (EA)	465 6077 INLET (COMPL) (PSL) (RC) (8FTx8FT) (EA)	465 6158 INLET (COMPL) (PAZD) (FG) (3FTx3FT) (EA)	465 6160 INLET (COMPL) (PAZD) (FG) (4FTx4FT) (EA)	465 6176 INLET (COMPL) (CURB) (TY C-1) (MOD) (EA)	467 6356 S.E.T (TY II) (18 IN) (RCP) (3:1) (C) (EA)	467 6388 S.E.T (TY II) (24 IN) (RCP) (3:1) (C) (EA)
DICKER ROAD																	
U&D 1 OF 12	8															1	
U&D 2 OF 12		1	1		1	1			1								
U&D 3 OF 12		3				1			1	1				2			
U&D 4 OF 12	1	2									2	1		3			
U&D 5 OF 12	1	2	1									1		4			
U&D 6 OF 12		2	3									1	1	1	2		
U&D 7 OF 12												1					
U&D 8 OF 12		4	1		1	1			1								
U&D 9 OF 12	1		1						2		1						
U&D 10 OF 12	3	1	1						1			1					
U&D 11 OF 12	3			1						1							
U&D 12 OF 12	2																
TOTAL	19	15	8	1	2	2	1	1	3	4	2	5	3	1	10	2	

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(Irr)
 Add Standard Sheet - Concrete Piling

**CO #4 - Reduce Structural
Excavation(SPL)**

CULVERT SUMMARY

LOCATION	104 6009 REMOVING CONC (RIPRAP) (SY)	132 6006 EMBANKMENT (FINAL) (DENS CONT) (TY C) (CY)	* 400 6001 STRUCT EXCAV (CY)	400 6005 CEM STABIL BKFL (CY)	400 6010 STRUCT EXCAV (SPECIAL) (CY)	403 6001 TEMP SPL SHORING (SF)	432 6002 RIPRAP (CONC) (5") (CY)	462 6060 CONC BOX CULVERT (7 FT X 5 FT) (EXTEND) (LF)	462 6070 CONC BOX CULVERT (9 FT X 7 FT) (EXTEND) (LF)	464 6003 RC PIPE (CL III) (18") (SPL) (LF)	465 6158 INLET (COMPL)(PAZD) (FG)(3FT X 3FT) (EA)	496 6007 REMOVE STRUCT PIPE (LF)
DICKER ROAD CULVERTS												
CULV. SHEET 1 OF 3	20		156	8	21		3			206	2	140
CULV. SHEET 2 OF 3		8,652	1,280		557	700	73		472.0			
CULV. SHEET 3 OF 3		6,834	1,244		74	400	71		126.0			
PROJECT TOTAL	20	15,486	2,680	8	652	1,100	147	126.0	472.0	206	2	140

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

CO #4

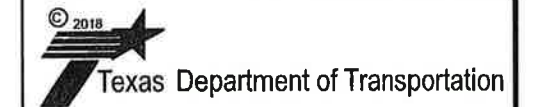
CO #2

CO #2

CO #2



The County of Hidalgo
Pct 2

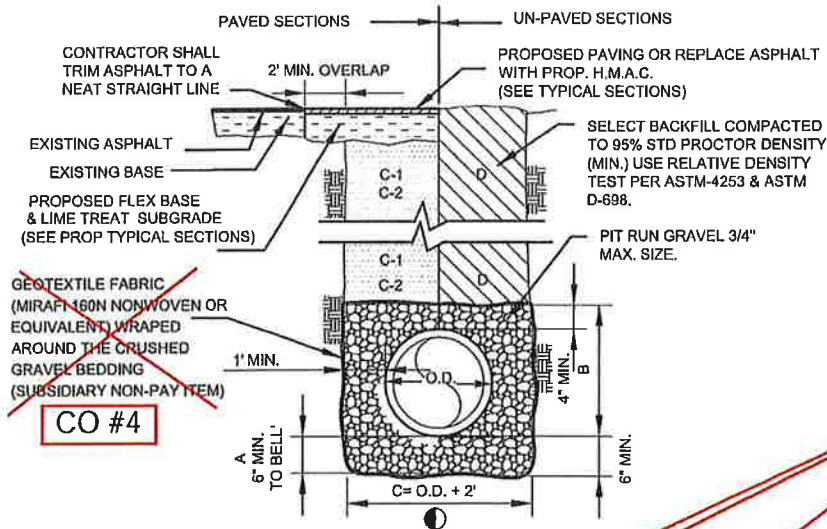


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 Mission, Texas 78172
 (956) 424-7898

DICKER ROAD
DRAINAGE SUMMARIES

SHEET 1 OF 1

FED. HD	CDMT	SECT	JOB	HIGHWAY
06	0921	02	312	DICKER ROAD
STATE	DIST	COUNTY	PCT	CITY
TEXAS	PHR	HIDALGO	No 2	HIDALGO
				SHEET NO.
				14a



CO #4

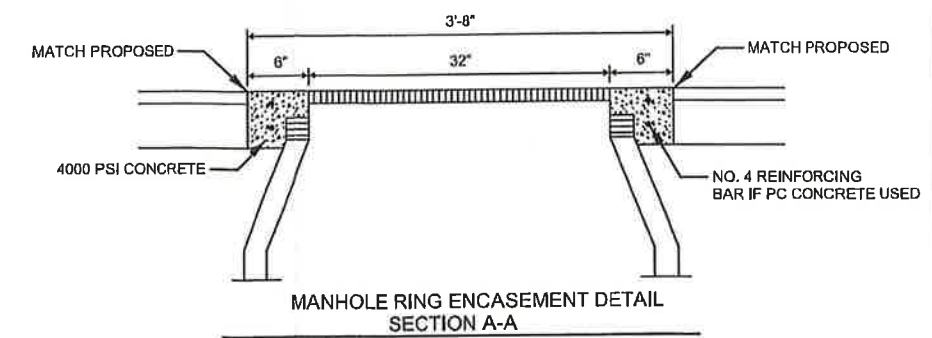
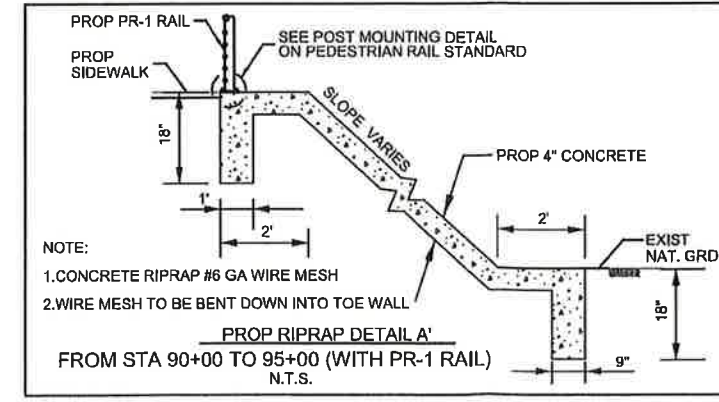
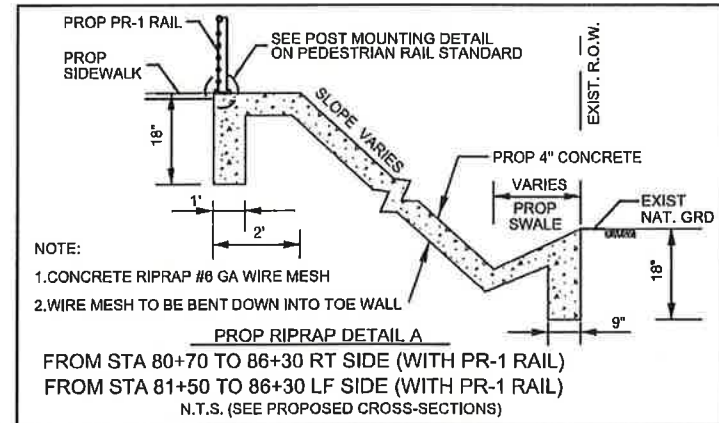
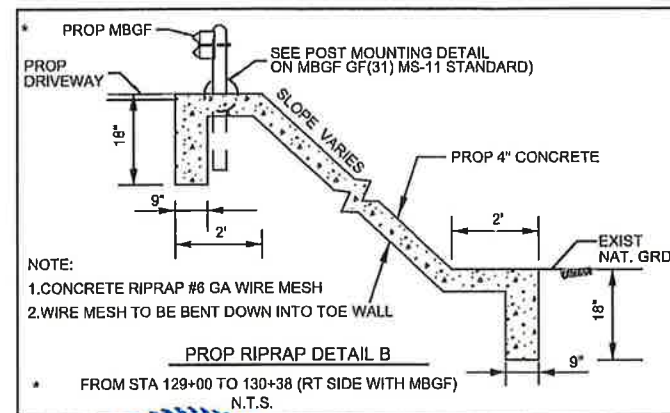
- A. GRAVEL BEDDING PLACED BEFORE PIPE IS LAID UP TO BELL OF PIPE (MIN. THICKNESS = 6") PIT RUN GRAVEL 3/4" MAX. SIZE.
- ~~B. GRAVEL PLACED AFTER PIPE IS LAID FROM BOTTOM OF PIPE TO 4" ABOVE THE TOP OF PIPE. PIT RUN GRAVEL 3/4" MAX. SIZE.~~
- C. MINIMUM TRENCH WIDTHS SHALL BE PIPE BELL O.D. + 24". (SEE NOTE 1)
- C-1. (CITY STREETS, PARKING AREA, AND DRIVEWAYS) SELECTED EXCAVATED BACKFILL COMPACTED TO 95% STD. PROCTOR DENSITY, MECHANICAL COMPACTION.
- ~~C-2. (STATE MAINTAINED ROADWAYS) COMPACTED CEMENT STABILIZED BACK FILL WITH 7% PORTLAND CEMENT COMPACTED AS PER ASTM D-4253 AND ASTM D-698. PAID UNDER ITEM 400 CEMENT STABL. BACKFILL.~~
- D. SELECT EARTH BACK FILL COMPACTED TO 95% STD. PROCTOR DENSITY (12" LIFTS, MECHANICAL COMPACTION) FOUNDATION PREPARATION (WELLPOINTS, GRAVEL OR CEMENT STABILIZATION, OR APPROVED SUBSTITUTE) SHALL BE REQUIRED WHEN TRENCH BOTTOM IS UNSTABLE. BACK FILLING AT STRUCTURES SHALL BE PLACED IN UNIFORM LAYERS, MOISTENED AS REQUIRED TO APPROXIMATE OPTIMUM MOISTURE CONTENT, AND COMPACTED TO 95% STD. PROCTOR DENSITY (USE RELATIVE DENSITY TEST PER ASTM D-4253 & ASTM D-698). THE THICKNESS OF EACH LOOSE LAYER SHALL NOT TO EXCEED 6". STRUCTURE BACK FILL MATERIAL SHALL BE SAND, APPROVED SITE SOIL, OR OTHER APPROVED SUBSTITUTE.

TYPICAL STORM SEWER PIPE BEDDING & BACKFILL DETAIL
 THE PIPE GRAVEL BEDDING, TO BE PAID UNDER ITEM 400 STRUCT EXCAV (SPECIAL) THE NONWOVEN GEOTEXTILE IS NOT A PAID ITEM SHOULD BE SUBSIDIARY TO ITEM 464.

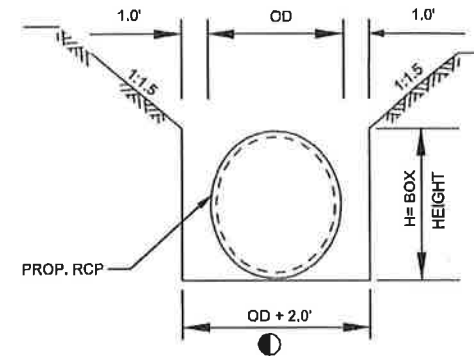
CO #4

Remove geotextile fabric from around trenches. Place geotextile around box culvert joints. RCP has pipe gaskets, not requiring geotextile. Remove cement stabilized backfill from RCP requirements. Shown as subsidiary under the cut & restore details.

CO #4

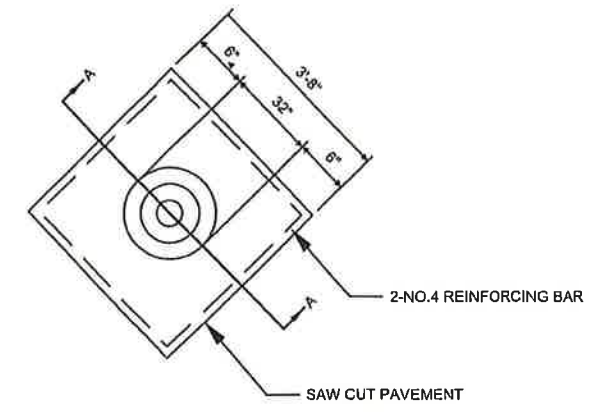


MANHOLE RING ENCASEMENT DETAIL SECTION A-A

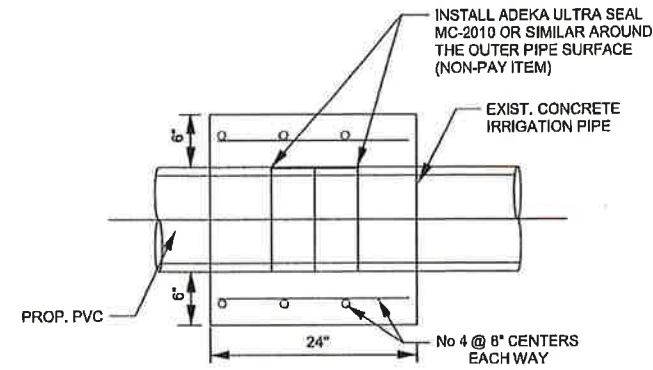


TYPICAL TRENCH EXCAVATION PROTECTION (FOR EXCAVATION DEEP THAN 5' FOLLOW OSHA REGULATIONS)

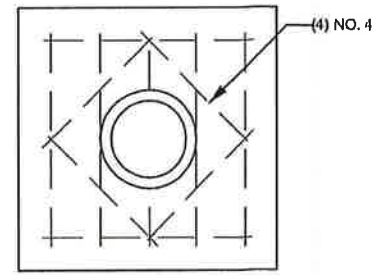
N.T.S.
 NOTE: 1. FOR 42" RCP OR LESS (O.D. + 2 FT)
 2. FOR 48" RCP OR GREATER (O.D. + 4 FT)



MANHOLE RING ENCASEMENT DETAIL



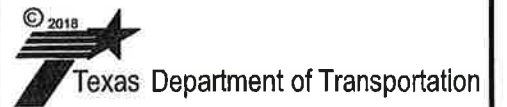
CONCRETE COLLAR DETAIL
 NON-PAY, SUBSIDIARY TO PERTINENT BID ITEMS IRRIGATION LINE INSTALLATION



CONCRETE COLLAR DETAIL
 (PVC INTO EXIST. CONCRETE PIPE)
 NON-PAY, SUBSIDIARY TO PERTINENT BID ITEMS IRRIGATION LINE INSTALLATION
 N.T.S.



The County of Hidalgo
 Pct 2

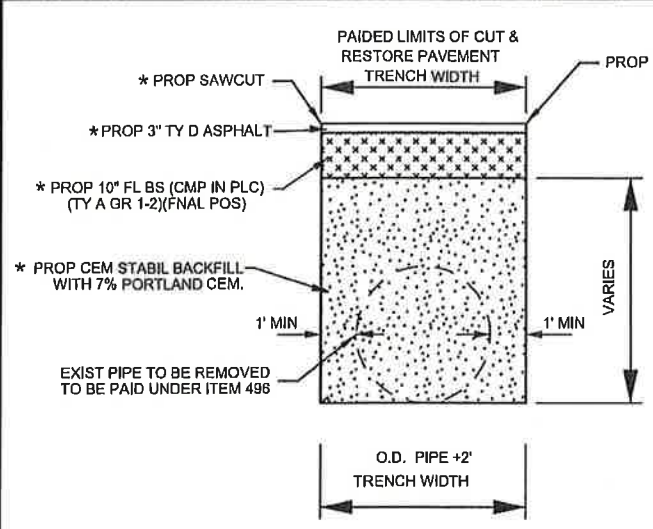


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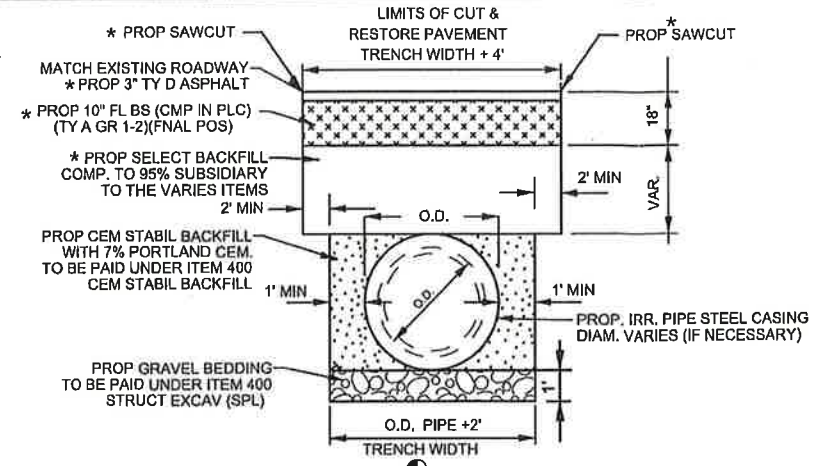
**DICKER ROAD
 MISCELLANEOUS
 DRAINAGE DETAILS**

N.T.S.				SHEET 2 OF 3	
FED. RD. DIST. NO.	CONT.	SECT.	JOB	HIGHWAY	
06	0921	02	312	DICKER ROAD	
STATE	DIST	COUNTY	PCT	CITY	SHEET NO.
TEXAS	PHR	HIDALGO	No 2	HIDALGO	151a

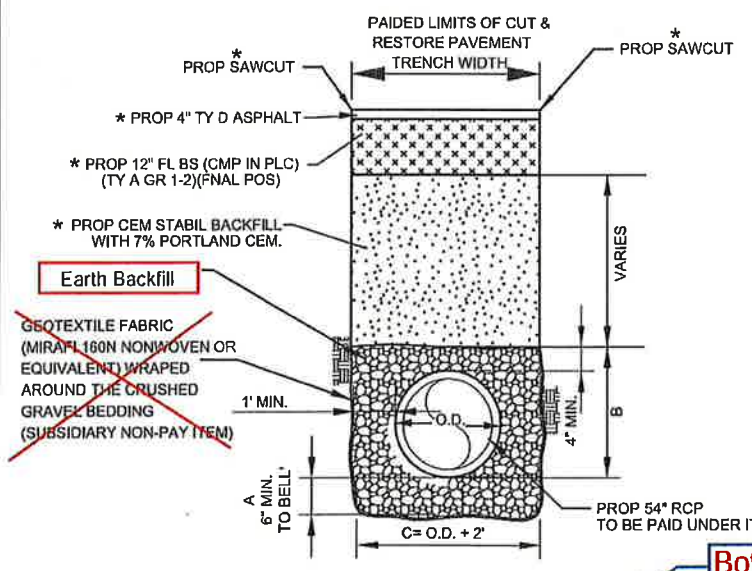
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CUT AND RESTORE & BACKFILL DETAIL FOR CULVERT REMOVALS
N.T.S.
* SUBSIDIARY TO ITEM 400 CUT & RESTORE

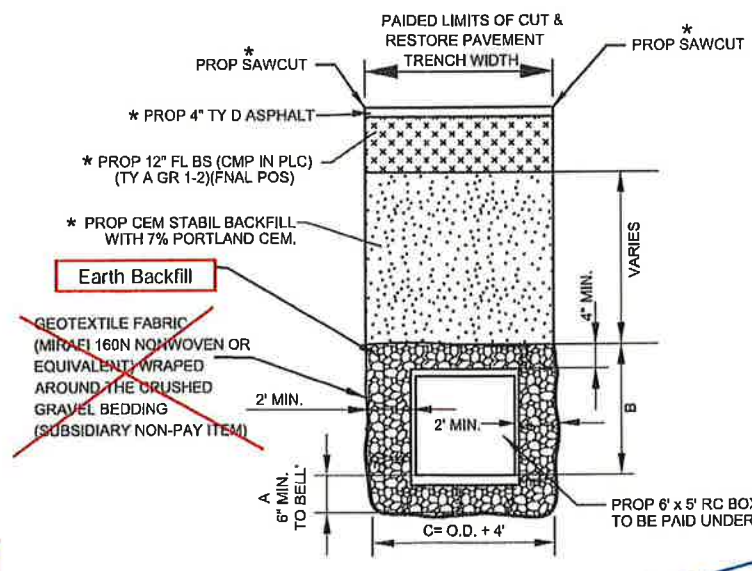


CUT AND RESTORE & BEDDING AND BACKFILL DETAIL FOR IRRIGATION CROSSING @ ROADWAY ALL CROSSINGS
N.T.S.
* SUBSIDIARY TO ITEM 400 CUT & RESTORE



A. GRAVEL BEDDING PLACED BEFORE PIPE IS LAID UP TO (MIN.) THICKNESS = 6" PIT RUN GRAVEL 3/4" MAX. SIZE.
B. GRAVEL PLACED AFTER PIPE IS LAID FROM BOTTOM OF PIPE TO 1" ABOVE THE TOP OF PIPE. PIT RUN GRAVEL 3/4" MAX. SIZE.

CUT AND RESTORE & BEDDING & BACKFILL DETAIL CULVERT CROSSING McCOLL RD STA 114+77 TO STA 115+47
N.T.S.
* SUBSIDIARY TO ITEM 400 CUT & RESTORE



A. GRAVEL BEDDING PLACED BEFORE PIPE IS LAID UP TO (MIN.) THICKNESS = 6" PIT RUN GRAVEL 3/4" MAX. SIZE.
B. GRAVEL PLACED AFTER PIPE IS LAID FROM BOTTOM OF PIPE TO 1" ABOVE THE TOP OF PIPE. PIT RUN GRAVEL 3/4" MAX. SIZE.

CUT AND RESTORE & BEDDING & BACKFILL DETAIL CULVERT CROSSING 10th STREET STA 56+40 TO STA 58+40
N.T.S.
* SUBSIDIARY TO ITEM 400 CUT & RESTORE



CO #4
Remove geotextile fabric from around trenches. Place geotextile around box culvert joints. RCP has pipe gaskets, not requiring geotextile. Remove cement stabilized backfill from RCP requirements. Shown as subsidiary under the cut & restore details.



The County of Hidalgo
Pct 2



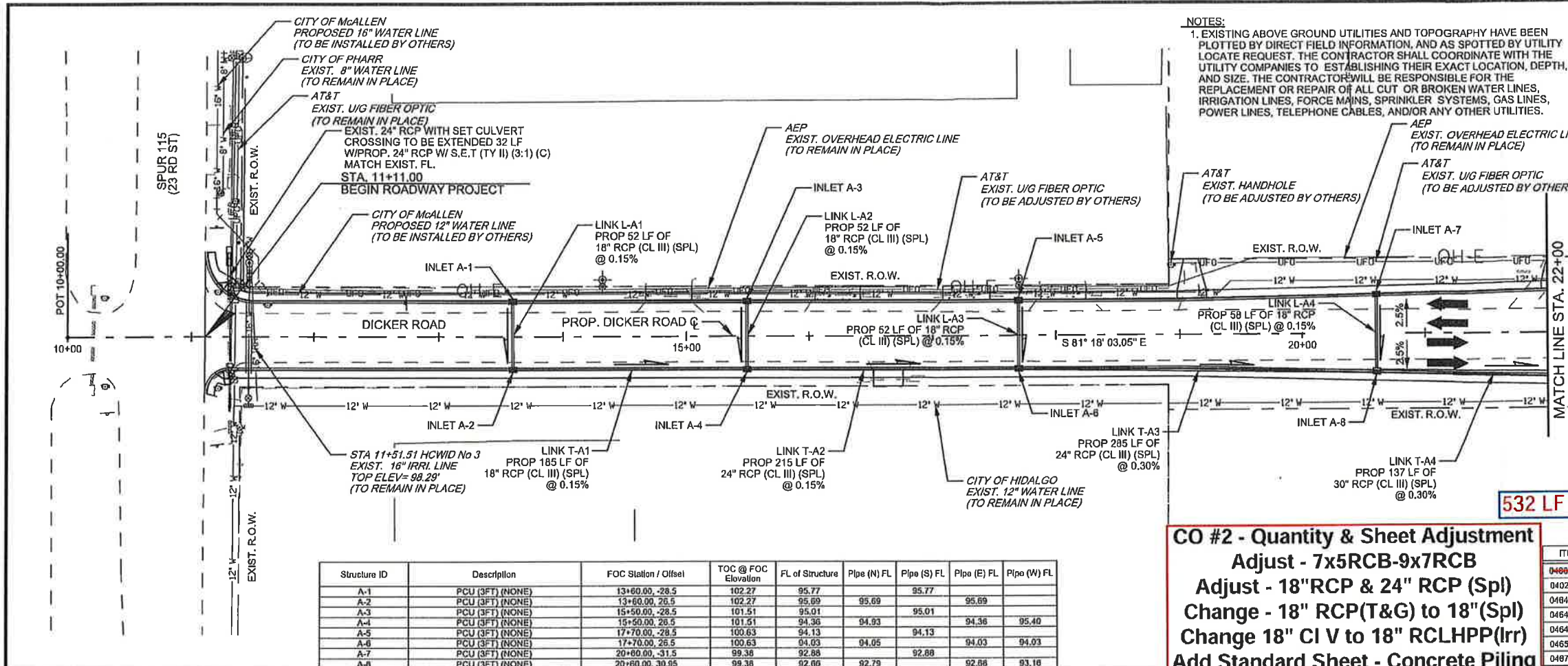
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Consulting Engineers
1201 E. Expressway 83
Mission, Texas 78572
(956) 424-7898

DICKER ROAD
MISCELLANEOUS
DRAINAGE DETAILS

SHEET 3 OF 3

FULL ID	CONT	SECT	JOB	HIGHWAY	
06	0821	02	312	DICKER ROAD	
STATE	DIST	COUNTY	PCT	CITY	SHEET NO.
TEXAS	PHR	HIDALGO	No 2	HIDALGO	151b

DATE: 4/26/2018 1:34:59 PM
FILE: Dicker-DRAINAGE DETAILS.dgn



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.

- LEGEND:**
- ☐ SEE P&P SHEETS
 - ⊕ EXIST. ITEM TO BE REMOVED UNDER ITEM 496
 - ⊕ PROP. CONC. PLUG (NON-PAY ITEM)
 - ▨ PROPOSED DRIVEWAY OR TURNOUT (SEE DRIVEWAY/TURNOUT TABLE FOR SET'S & 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 III UNLESS OTHERWISE NOTED.
 3. SEE DRAINAGE STRUCTURE STANDARD SHEETS FOR DESCRIPTION OF OFFSET IN STORM DRAIN TABLE.
 4. RECONNECTION OF EXISTING STORM DRAIN SHALL BE SUBSIDIARY TO PERTINENT BID ITEMS.
 5. SEE "HYDRAULIC DATA SHEETS FOR PAYMENTS OF ALL PROPOSED DRAINAGE STRUCTURES.
 6. FOR OTHER DITCH GRADES SEE DITCH PROFILE SHEETS.
 7. SEE PROPOSED CROSS SECTIONS FOR MORE INFORMATION.

Structure ID	Description	FOC Station / Offset	TOC @ FOC Elevation	FL of Structure	Pipe (N) FL	Pipe (S) FL	Pipe (E) FL	Pipe (W) FL
A-1	PCU (3FT) (NONE)	13+60.00, -28.5	102.27	95.77		95.77		
A-2	PCU (3FT) (NONE)	13+60.00, 28.5	102.27	95.69	95.69		95.69	
A-3	PCU (3FT) (NONE)	15+50.00, -28.5	101.51	95.01		95.01		
A-4	PCU (3FT) (NONE)	15+50.00, 28.5	101.51	94.36	94.36		94.36	95.40
A-5	PCU (3FT) (NONE)	17+70.00, -28.5	100.63	94.13		94.13		
A-6	PCU (3FT) (NONE)	17+70.00, 28.5	100.63	94.03	94.05		94.03	94.03
A-7	PCU (3FT) (NONE)	20+80.00, -31.5	99.38	92.88		92.88		
A-8	PCU (3FT) (NONE)	20+80.00, 30.95	99.38	92.88	92.79		92.88	93.16

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(Irr)
 Add Standard Sheet - Concrete Piling

399 LF
 532 LF

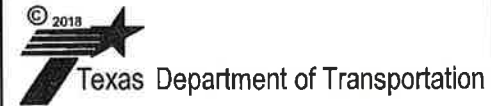
ITEM	DESCRIPTION	UNIT	QUANTITY
0400-0019	STRUCTURE (SPECIAL)	EA	400
0402 6001	TRENCH EXCAVATION PROTECTION	LF	1034
0464 6036	RC PIPE (CL III)(18 IN)(SPL)	LF	344
0464 6039	RC PIPE (CL III)(24 IN)(SPL)	LF	347
0464 6040	RC PIPE (CL III)(30 IN)(SPL)	LF	137
0465 6029	INLET (COMPL)(PCU)(3FT)(NONE)	EA	8
0467 6388	SET (TY II) (24 IN) (RCP) (3: 1) (C)	EA	1

CO #4 - Reduce Structural Excavation (SPL)



NAME: *Eric Dietrich* DATE: 05-03-2019

The County of Hidalgo
 Pct 2



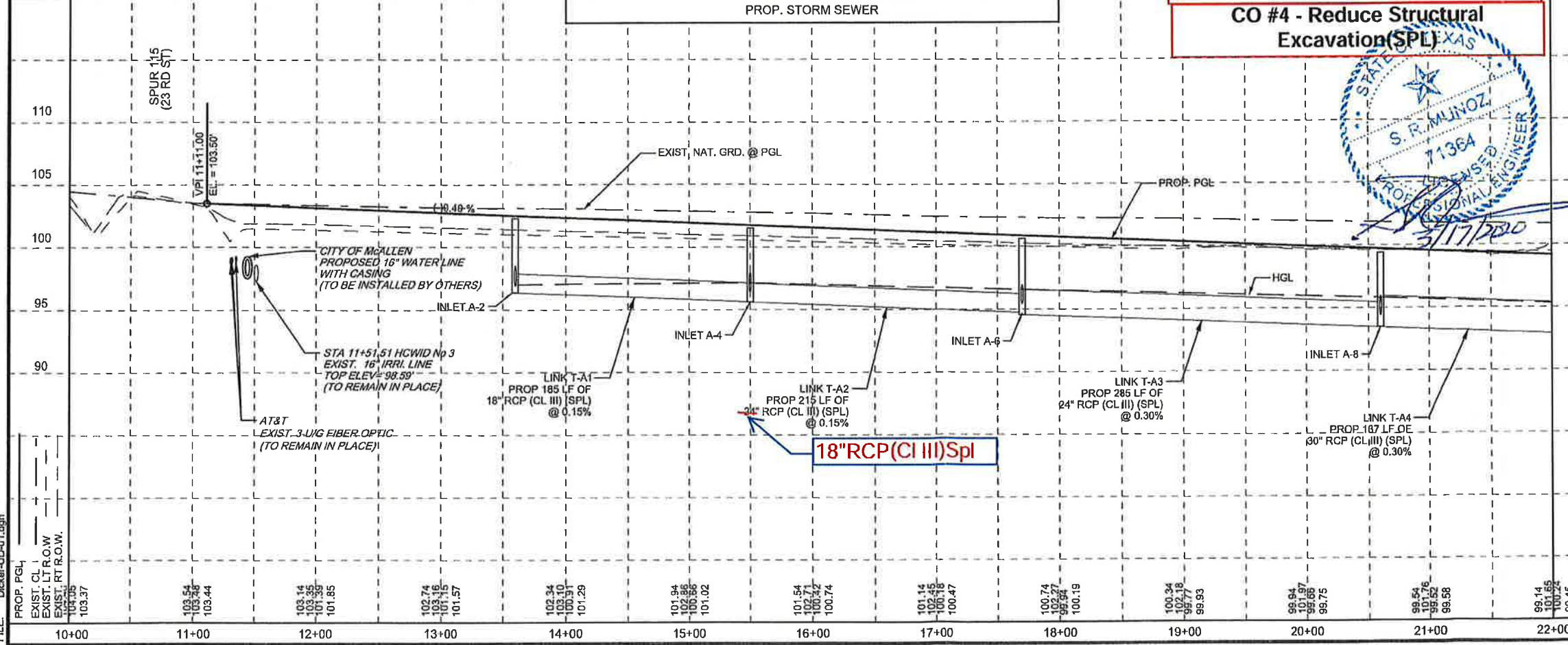
TEDSI INFRASTRUCTURE GROUP
 Consulting Engineers
 1201 E. Expressway 83
 Mission, Texas 78572
 (956) 424-7898

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

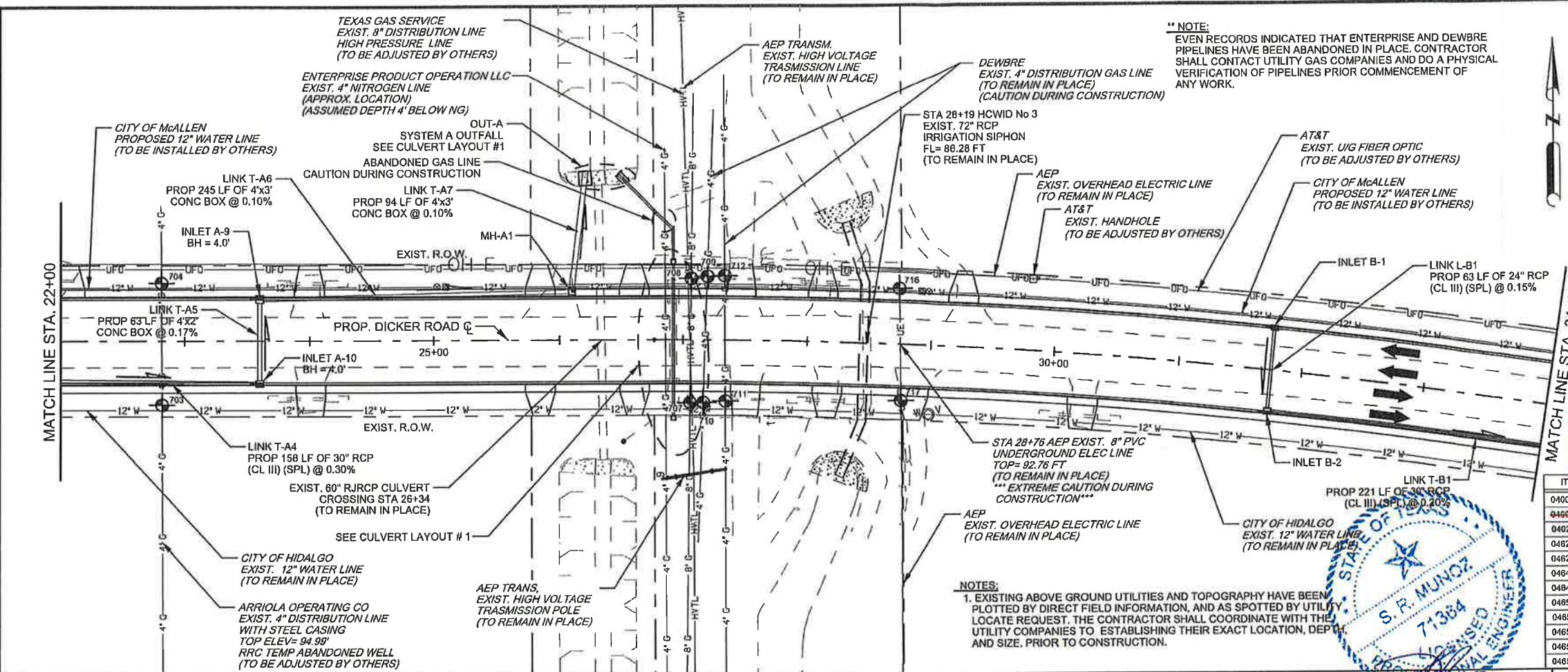
SCALE:
 HOR: 1"=100'
 VER: 1"=10'

FILE NO.	CONT.	SECT.	JOB	ROADWAY	
06	0921	02	312	DICKER ROAD	
STATE	DIST.	COUNTY	PCT.	CITY	SHEET NO.
TEXAS	PHR	HIDALGO	No 2	HIDALGO	152a

DATE: 5/3/2019 8:35:06 AM
 FILE: Dicker-LD-01.dgn



18"RCP(CI III)Spl



- LEGEND:**
- SEE P&P SHEETS
 - EXIST. ITEM TO BE REMOVED UNDER ITEM 486
 - PROP. CONC. PLUG (NON-PAY ITEM)
 - PROPOSED DRIVEWAY OR TURNOUT (SEE DRIVEWAY/TURNOUT TABLE FOR SET'S & 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 III UNLESS OTHERWISE NOTED.
 3. SEE DRAINAGE STRUCTURE STANDARD SHEETS FOR DESCRIPTION OF OFFSET IN STORM DRAIN TABLE.
 4. RECONNECTION OF EXISTING STORM DRAIN SHALL BE SUBSIDIARY TO PERTINENT BID ITEMS.
 5. SEE "HYDRAULIC DATA SHEETS FOR PAYMENTS OF ALL PROPOSED DRAINAGE STRUCTURES.
 6. FOR OTHER DITCH GRADES SEE DITCH PROFILE SHEETS.
 7. SEE PROPOSED CROSS SECTIONS FOR MORE INFORMATION.

CO #4 - Reduce Structural Excavation(SPL)

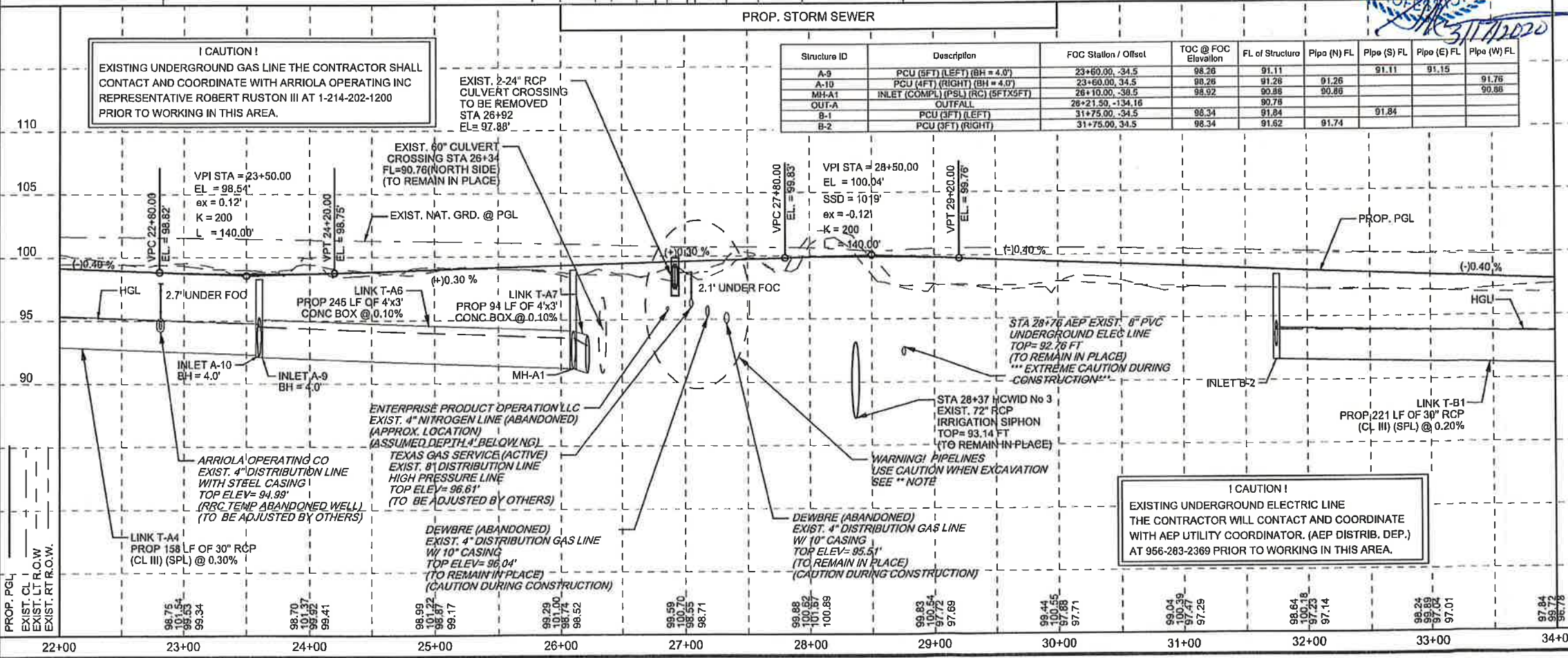
ITEM	DESCRIPTION	UNIT	QUANTITY
0400 6002	STRUCT EXCAV (BOX)	CY	430
0400 6010	STRUCT EXCAV (SPECIAL)	CY	289
0402 6001	TRENCH EXCAVATION PROTECTION	LF	844
0482 6003	CONC BOX CULV (4 FT X 2 FT)	LF	63
0482 6004	CONC BOX CULV (4 FT X 3 FT)	LF	339
0484 6039	RC PIPE (CL III) 24 IN(SPL)	LF	63
0484 6040	RC PIPE (CL III) 30 IN(SPL)	LF	379
0485 6030	INLET (COMPL) PCU (3FT) (LEFT)	EA	1
0485 6031	INLET (COMPL) PCU (3FT) (RIGHT)	EA	1
0465 6035	INLET (COMPL) PCU (4FT) (RIGHT)	EA	1
0465 6038	INLET (COMPL) PCU (5FT) (LEFT)	EA	1
0465 6074	INLET (COMPL) PSL (RC) (5FT X 5FT)	EA	1



- 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, PRIOR TO CONSTRUCTION.

CAUTION!
EXISTING UNDERGROUND GAS LINE THE CONTRACTOR SHALL CONTACT AND COORDINATE WITH ARRIOLA OPERATING INC REPRESENTATIVE ROBERT RUSTON III AT 1-214-202-1200 PRIOR TO WORKING IN THIS AREA.

Structure ID	Description	FOC Station / Offset	TOC @ FOC Elevation	FL of Structure	Pipe (N) FL	Pipe (S) FL	Pipe (E) FL	Pipe (W) FL
A-9	PCU (5FT) (LEFT) (BH = 4.0')	23+60.00, -34.5	98.26	91.11				
A-10	PCU (4FT) (RIGHT) (BH = 4.0')	23+60.00, 34.5	98.26	91.26	91.26	91.11	91.15	91.76
MH-A1	INLET (COMPL) (PSL) (RC) (5FT X 5FT)	26+10.00, -39.5	98.92	90.88	90.88			90.88
OUT-A	OUTFALL	26+21.50, -134.16		90.78				
B-1	PCU (3FT) (LEFT)	31+75.00, -34.5	98.34	91.84		91.84		
B-2	PCU (3FT) (RIGHT)	31+75.00, 34.5	98.34	91.62	91.74			



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.

ITEM	DESCRIPTION	UNIT	QUANTITY
0460 6040	STRUCTURE (SPECIAL)	EY	002
0402 6001	TRENCH EXCAVATION PROTECTION	LF	1362
0464 6039	RC PIPE (CL III)(24 IN)(SPL)	LF	81
0464 6040	RC PIPE (CL III)(30 IN)(SPL)	LF	240
0464 6042	RC PIPE (CL III)(42 IN)(SPL)	LF	646
0464 6043	RC PIPE (CL III)(48 IN)(SPL)	LF	190
0464 6044	RC PIPE (CL III)(64 IN)(SPL)	LF	227
0465 6030	INLET (COMPL)(PCU)(3FT)(LEFT)	EA	3
0465 6037	INLET (COMPL)(PCU)(5FT)(NONE)	EA	1
0465 6176	INLET (COMPL)(CURB)(TY C1) MOD	EA	2
0465 6074	INLET (COMPL)(PSL)(RC)(6FTX6FT)	EA	1
0465 6076	INLET (COMPL)(PSL)(RC)(6FTX6FT)	EA <td 1	

- LEGEND:**
- ☐ SEE P&P SHEETS
 - ⊗ EXIST. ITEM TO BE REMOVED UNDER ITEM 496
 - ⊕ PROP. CONC. PLUG (NON-PAY ITEM)
 - ▨ PROPOSED DRIVEWAY OR TURNOUT (SEE DRIVEWAY/TURNOUT TABLE FOR SETS & PIPE QUANTITIES)
 - DIRECTION OF WATER FLOW
 - ⊙# TEST HOLE NUMBER

- NOTES:**
- SEE ALIGNMENT DATA SHEET FOR PROPOSED CENTERLINE DATA.
 - ALL RCP SHALL BE CL III UNLESS OTHERWISE NOTED.
 - SEE DRAINAGE STRUCTURE STANDARD SHEETS FOR DESCRIPTION OF OFFSET IN STORM DRAIN TABLE.
 - RECONNECTION OF EXISTING STORM DRAIN SHALL BE SUBSIDIARY TO PERTINENT BID ITEMS.
 - SEE "HYDRAULIC DATA SHEETS FOR PAYMENTS OF ALL PROPOSED DRAINAGE STRUCTURES.
 - FOR OTHER DITCH GRADES SEE DITCH PROFILE SHEETS.
 - SEE PROPOSED CROSS SECTIONS FOR MORE INFORMATION.



CO #4 - Reduce Structural Excavation(SPL)



NAME: Eric Dietrich DATE: 05-03-2019

The County of Hidalgo
Pct 2

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Texas Department of Transportation

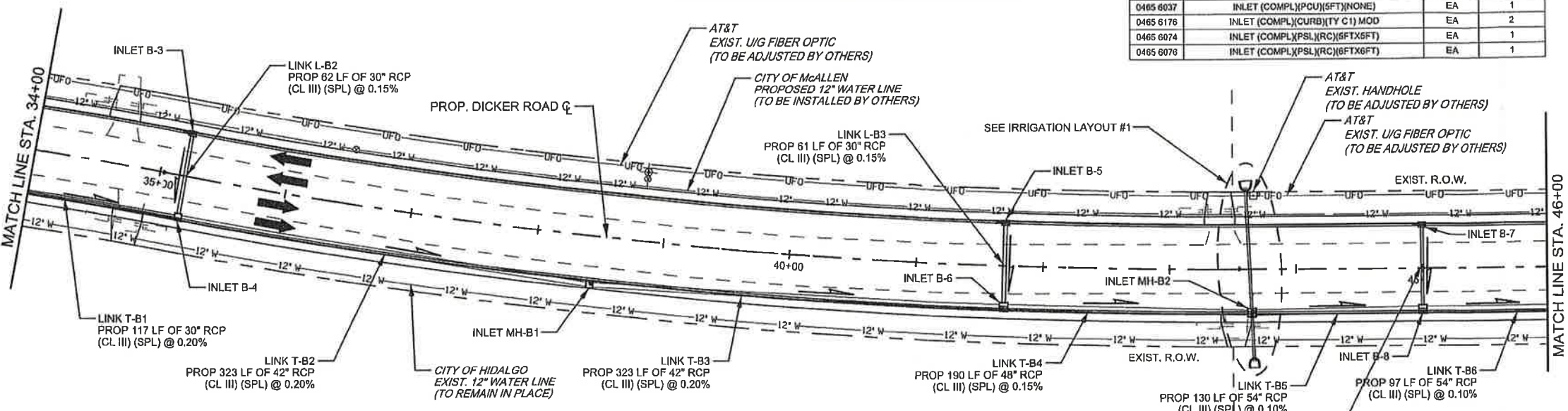
TEDSI INFRASTRUCTURE GROUP
Consulting Engineers
1201 E. Expressway 83
Mission, Texas 78572
(956) 424-7898

DICKER ROAD UTILITIES AND DRAINAGE

STA. 34+00 TO STA. 46+00

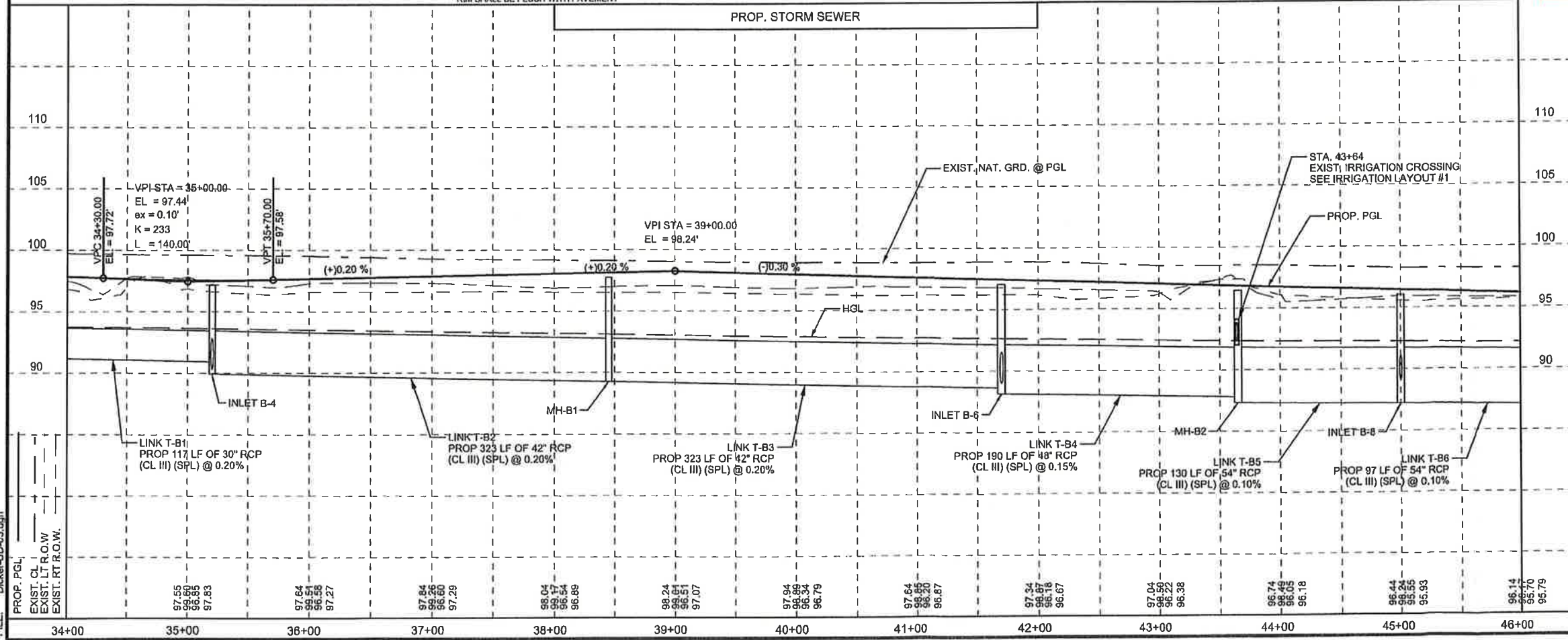
SCALE: HOR: 1" = 100'
VER: 1" = 10' SHEET 3 OF 12

FED. RD DIST. NO.	COUNTY	SECT	JOB	HIGHWAY	
06	0921	02	312	DICKER ROAD	
STATE	DIST	COUNTY	PCT	CITY	SHEET NO.
TEXAS	PHR	HIDALGO	No 2	HIDALGO	154a



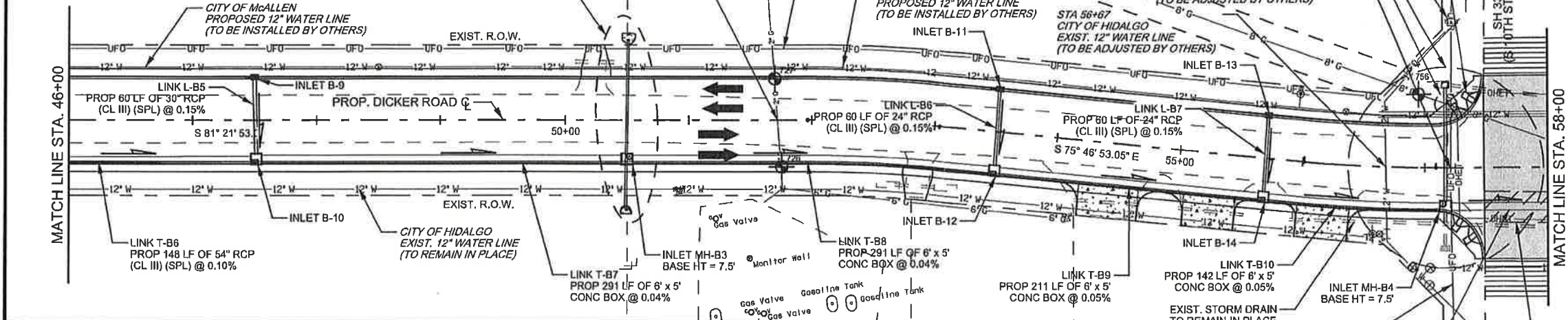
Structure ID	Description	FOC Station / Offset	TOC @ FOC Elevation	FL of Structure	Pipe (N) FL	Pipe (S) FL	Pipe (E) FL	Pipe (W) FL
B-3	PCU (3FT) (LEFT)	35+20.00, -34.5	97.13	90.41				
B-4	TY "C1" MOD W / EXT (RIGHT)	35+20.00, 34.5	97.13	89.93	90.31		89.93	90.93
MH-B1	INLET (COMPL) (PSL) (RC) (6FTX6FT)	38+45.00, 38	97.73	89.27			89.27	89.27
B-5	PCU (3FT) (LEFT)	41+70.00, -34.5	97.03	89.10				
B-6	PCU (5FT) (NONE)	41+70.00, 34.5	97.03	88.12	89.00		88.12	88.82
MH-B2	INLET (COMPL) (PSL) (RC) (6FTX6FT)	43+85.00, 33.67	96.04	87.32			87.32	87.82
B-7	PCU (3FT) (LEFT)	45+00.00, -34.5	96.04	89.17			89.17	
B-8	TY "C1" MOD	45+00.00, 34.5	96.04	87.19	89.07		87.19	87.19

* RIM SHALL BE FLUSH WITH PAVEMENT



DATE: 5/3/2019 8:36:08 AM
 FILE: Dicker-LD-03.dgn

ITEM	DESCRIPTION	UNIT	QUANTITY
0400 6002	STRUCT EXCAV (BOX)	CY	347
0400 6010	STRUCT EXCAV (SPECIAL)	CY	222
0402 6001	TRENCH EXCAVATION PROTECTION	LF	1341
0402 6012	CONC BOX CULV (6 FT X 5 FT)	LF	1015
0464 6038	RC PIPE (CL III)(18 IN)(SPL)	LF	92
0464 6039	RC PIPE (CL III)(24 IN)(SPL)	LF	120
0464 6040	RC PIPE (CL III)(30 IN)(SPL)	LF	60
0464 6044	RC PIPE (CL III)(54 IN)(SPL)	LF	148
0465 6029	INLET (COMPL)(PCU)(3FT)(NONE)	EA	1
0465 6030	INLET (COMPL)(PCU)(3FT)(LEFT)	EA	2
0465 6077	INLET (COMPL)(PSL)(RC)(8FTX8FT)	EA	2
0465 6150	INLET (COMPL)(PAZD)(FG)(3FTX3FT-3FTX3FT)	EA	1
0465 6176	INLET (COMPL)(CURB)(TY C1) MOD	EA	3



Structure ID	Description	FOC Station / Offset	TOC @ FOC Elevation	FL of Structure	Pipe (N) FL	Pipe (S) FL	Pipe (E) FL	Pipe (W) FL
B-9	PCU (3FT) (LEFT)	47+50.00, -34.5	95.29	88.78				
B-10	TY 'C1' MOD	47+50.00, 34.5	95.29	86.37	88.68	88.78	86.37	86.94
MH-B3	INLET (COMPL) (PSL) (RC) (8FTX8FT) (BH = 7.5)	50+50.00, 30.95	95.57	86.25			86.25	86.25
B-11	PCU (3FT) (LEFT)	53+50.00, -34.5	95.29	88.79		88.79		
B-12	TY 'C1' MOD	53+50.00, 34.5	95.29	86.13	88.69		86.13	86.13
B-13	PCU (3FT) (NONE)	55+69.00, -34.5	94.77	88.27		88.27		
B-14	TY 'C1' MOD	55+69.00, 34.5	94.77	86.02	88.17		86.02	86.02
MH-B4	INLET (COMPL) (PSL) (RC) (8FTX8FT) (BH = 7.5)	57+16.00, 30.95	95.09	85.94	88.50		85.94	85.94
	INLET (COMPL) (PAZD) (FG) (3FTX3FT-3FTX3FT)	57+16.00, -58	83.12	88.96		88.96		

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 ESTABLISH 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, IRRIGATION LINES, TELEPHONE CABLES, AND/OR ANY OTHER UTILITIES.

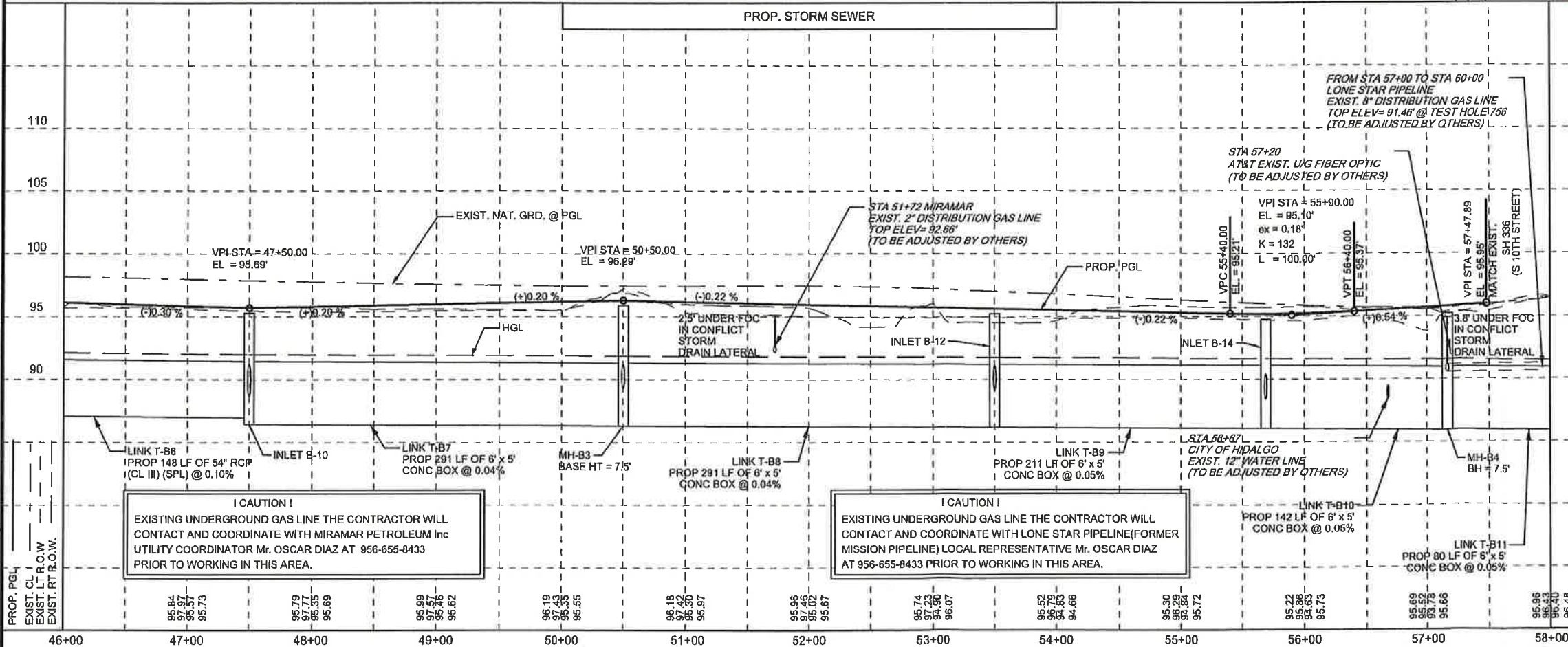
LEGEND:

- SEE P&P SHEETS
- EXIST. ITEM TO BE REMOVED UNDER ITEM 496
- PROP. CONC. PLUG (NON-PAY ITEM)
- PROPOSED DRIVEWAY OR TURNOUT (SEE DRIVEWAY/TURNOUT TABLE FOR SET'S & PIPE QUANTITIES)
- DIRECTION OF WATER FLOW
- TEST HOLE NUMBER

- NOTES:**
- SEE ALIGNMENT DATA SHEET FOR PROPOSED CENTERLINE DATA.
 - ALL RCP SHALL BE CL III UNLESS OTHERWISE NOTED.
 - SEE DRAINAGE STRUCTURE STANDARD SHEETS FOR DESCRIPTION OF OFFSET IN STORM DRAIN TABLE.
 - RECONNECTION OF EXISTING STORM DRAIN SHALL BE SUBSIDIARY TO PERTINENT BID ITEMS.
 - SEE "HYDRAULIC DATA SHEETS FOR PAYMENTS OF ALL PROPOSED DRAINAGE STRUCTURES.
 - FOR OTHER DITCH GRADES SEE DITCH PROFILE SHEETS.
 - SEE PROPOSED CROSS SECTIONS FOR MORE INFORMATION.



CO #4 - Reduce Structural Excavation(SPL)



Professional Engineer seal for ERIC DIETRICH, State of Texas, License No. 94970, dated 05-03-2019.

The County of Hidalgo
 Pct 2

Texas Department of Transportation

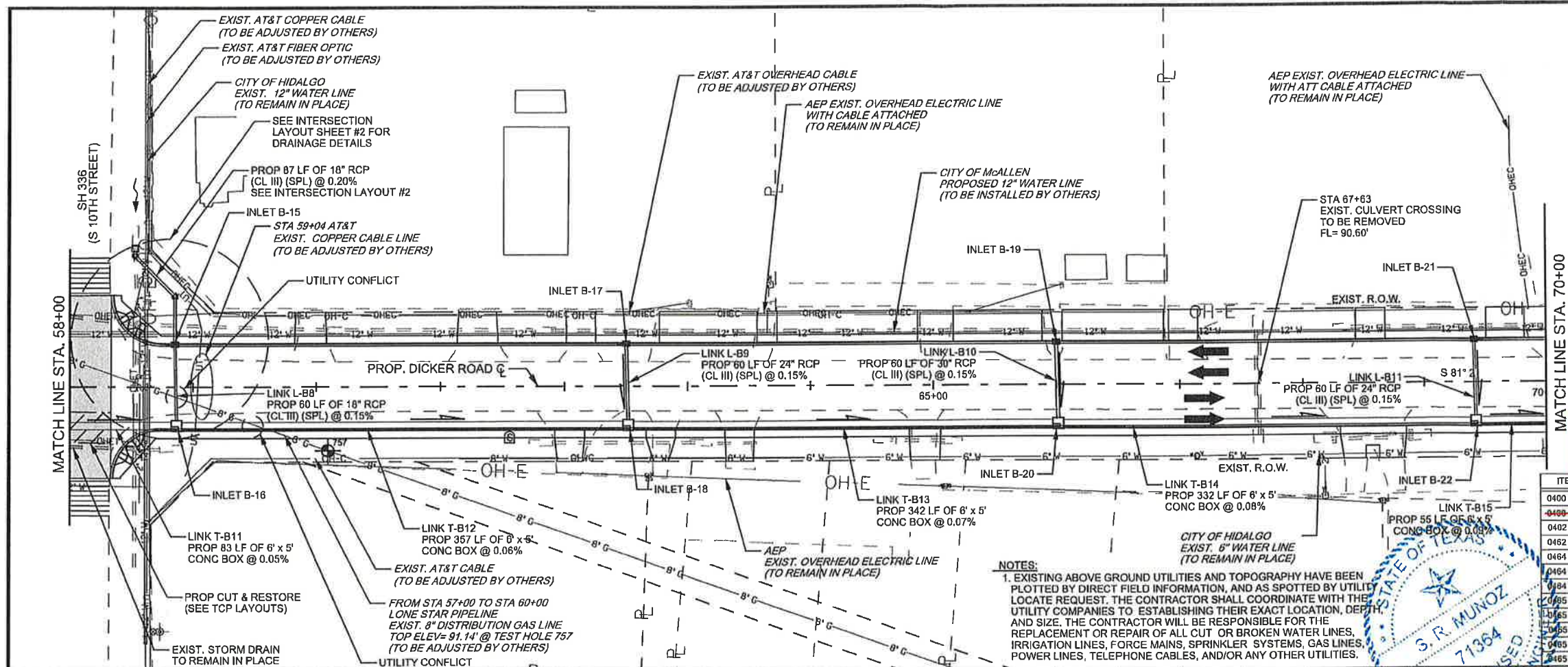
TEDSI INFRASTRUCTURE GROUP
 Consulting Engineers
 1101 E. Expressway 81
 Houston, Texas 77052
 (936) 424-7899

DICKER ROAD UTILITIES AND DRAINAGE
 STA. 46+00 TO STA. 58+00

SCALE:
 HOR: 1" = 100'
 VER: 1" = 10'

FED. RD. DIST. NO.	COUNTY	SECT.	JOB	RIGHTWAY	
06	0921	02	312	DICKER ROAD	
STATE	DIST.	COUNTY	PCT.	CITY	SHEET NO.
TEXAS	PHR	HIDALGO	No 2	HIDALGO	155a

DATE: 5/3/2019 8:35:09 AM
 FILE: Dicker-UD-04.dgn



- LEGEND:**
- ☐ SEE P&P SHEETS
 - ⊕ EXIST. ITEM TO BE REMOVED UNDER ITEM 496
 - ⊕ PROP. CONC. PLUG (NON-PAY ITEM)
 - ▨ PROPOSED DRIVEWAY OR TURNOUT (SEE DRIVEWAY/TURNOUT TABLE FOR SET'S & 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 III UNLESS OTHERWISE NOTED.
 3. SEE DRAINAGE STRUCTURE STANDARD SHEETS FOR DESCRIPTION OF OFFSET IN STORM DRAIN TABLE.
 4. RECONNECTION OF EXISTING STORM DRAIN SHALL BE SUBSIDIARY TO PERTINENT BID ITEMS.
 5. SEE "HYDRAULIC DATA SHEETS FOR PAYMENTS OF ALL PROPOSED DRAINAGE STRUCTURES.
 6. FOR OTHER DITCH GRADES SEE DITCH PROFILE SHEETS.
 7. SEE PROPOSED CROSS SECTIONS FOR MORE INFORMATION.

CO #4 - Reduce Structural Excavation(SPL)

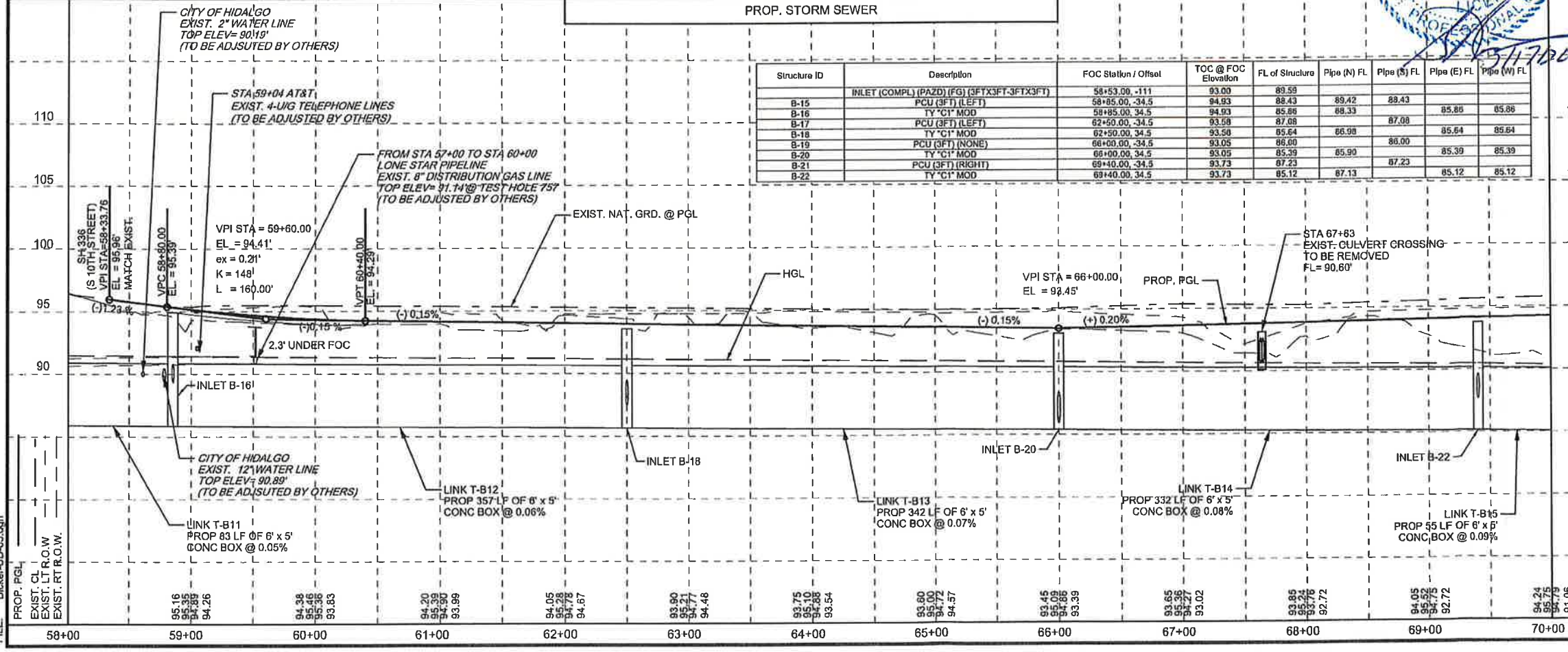
ITEM	DESCRIPTION	UNIT	QUANTITY
0400 6002	STRUCT EXCAV (BOX)	CY	400
0400 6002	STRUCT EXCAV (SPL)	CY	104
0402 0001	TRENCH EXCAVATION PROTECTION	LF	1496
0462 6012	CONC BOX CULV (6 FT X 5 FT)	LF	1168
0464 6038	RC PIPE (CL III)(18 IN)(SPL)	LF	147
0464 6039	RC PIPE (CL III)(24 IN)(SPL)	LF	120
0464 6040	RC PIPE (CL III)(30 IN)(SPL)	LF	80
0465 6029	INLET (COMPL)(PCU)(3FT)(NONE)	EA	1
0465 6030	INLET (COMPL)(PCU)(3FT)(LEFT)	EA	2
0465 6031	INLET (COMPL)(PCU)(3FT)(RIGHT)	EA	1
0465 6158	INLET (COMPL)(PAZD)(FG)(3FTX3FT-3FTX3FT)	EA	1
0465 6176	INLET (COMPL)(CURB)(TY C1) MOD	EA	4

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.



Structure ID	Description	FOC Station / Offset	TOC @ FOC Elevation	FL of Structure	Pipe (N) FL	Pipe (S) FL	Pipe (E) FL	Pipe (W) FL
	INLET (COMPL) (PAZD) (FG) (3FTX3FT-3FTX3FT)	58+53.00, -111	93.00	89.59				
B-15	PCU (3FT) (LEFT)	58+85.00, -34.5	94.93	88.43	89.42	89.43		
B-16	TY "C1" MOD	58+85.00, -34.5	94.93	85.86	88.33		85.86	85.86
B-17	PCU (3FT) (LEFT)	62+50.00, -34.5	93.58	87.08		87.08		
B-18	TY "C1" MOD	62+50.00, -34.5	93.58	85.64	86.98		85.64	85.64
B-19	PCU (3FT) (NONE)	66+00.00, -34.5	93.05	86.00		86.00		
B-20	TY "C1" MOD	66+00.00, -34.5	93.05	85.39	85.90		85.39	85.39
B-21	PCU (3FT) (RIGHT)	69+40.00, -34.5	93.73	87.23		87.23		
B-22	TY "C1" MOD	69+40.00, -34.5	93.73	85.12	87.13		85.12	85.12



NAME: *Eric Dietrich* DATE: 05-03-2019

The County of Hidalgo
Pct 2

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Texas Department of Transportation

TEDSI INFRASTRUCTURE GROUP
Consulting Engineers
1201 E. Expressway 93
Mission, Texas 78572
(956) 424-7898

DICKER ROAD UTILITIES AND DRAINAGE
STA. 58+00 TO STA. 70+00

SCALE:
HOR: 1" = 100'
VER: 1" = 10'

FED. RD DIST. NO.	CONT.	SECT.	JOB	HIGHWAY	
06	0921	02	312	DICKER ROAD	
STATE	DIST.	COUNTY	PCT.	CITY	SHEET NO.
TEXAS	PHR	HIDALGO	No 2	HIDALGO	156a

DATE: 5/3/2019 8:35:10 AM
FILE: Dicker-UD-05.dgn

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.

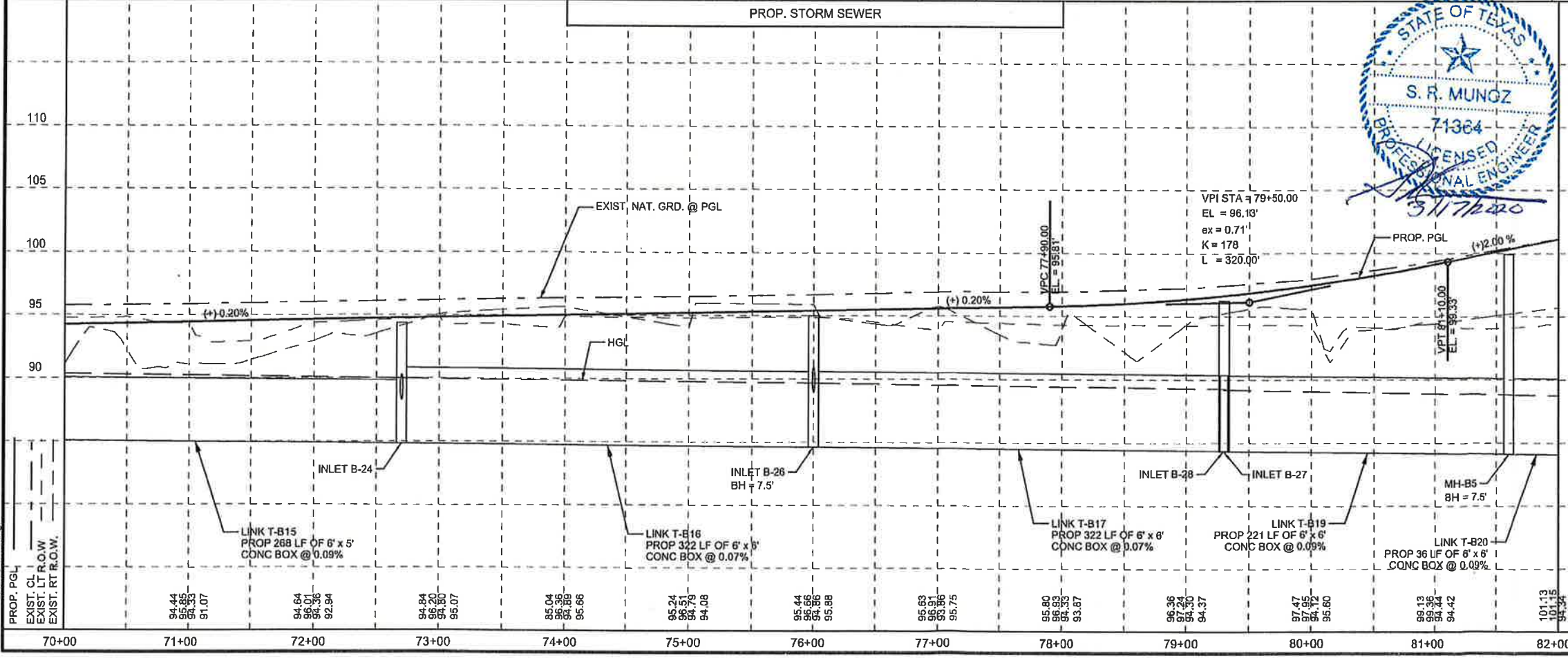
- LEGEND:**
- ☐ SEE P&P SHEETS
 - ⊕ EXIST. ITEM TO BE REMOVED UNDER ITEM 496
 - ⊕ PROP. CONC. PLUG (NON-PAY ITEM)
 - ▨ PROPOSED DRIVEWAY OR TURNOUT (SEE DRIVEWAY/TURNOUT TABLE FOR SET'S & PIPE QUANTITIES)
 - DIRECTION OF WATER FLOW
 - ⊕# TEST HOLE NUMBER

- NOTES:**
1. SEE ALIGNMENT DATA SHEET FOR PROPOSED CENTERLINE DATA.
 2. ALL RCP SHALL BE CL III UNLESS OTHERWISE NOTED.
 3. SEE DRAINAGE STRUCTURE STANDARD SHEETS FOR DESCRIPTION OF OFFSET IN STORM DRAIN TABLE.
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 5. SEE "HYDRAULIC DATA SHEETS FOR PAYMENTS OF ALL PROPOSED DRAINAGE STRUCTURES.
 6. FOR OTHER DITCH GRADES SEE DITCH PROFILE SHEETS.
 7. SEE PROPOSED CROSS SECTIONS FOR MORE INFORMATION.

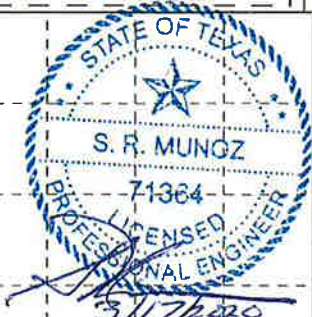
CO #4 - Reduce Structural Excavation(SPL)

ITEM	DESCRIPTION	UNIT	QUANTITY
0400 8002	STRUCT EXCAV (BOX)	CY	419
0400 8001	STRUCT EXCAV (SPECIAL)	CY	72
0402 8001	TRENCH EXCAVATION PROTECTION	LF	1354
0462 8012	CONC BOX CULV (6 FT X 5 FT)	LF	268
0462 8013	CONC BOX CULV (6 FT X 6 FT)	LF	955
0464 6038	RC PIPE (CL III)(18 IN)(SPL)	LF	44
0464 6039	RC PIPE (CL III)(24 IN)(SPL)	LF	120
0465 6030	INLET (COMPL)(PCU)(3FT)(LEFT)	EA	2
0465 6031	INLET (COMPL)(PCU)(3FT)(RIGHT)	EA	3
0465 6077	INLET (COMPL)(PSL)(RC)(6FT)(8FT)	EA	1
0465 6158	INLET (COMPL)(PAZD)(FG)(3FTX3FT-3FTX3FT)	EA	1
0465 6160	INLET (COMPL)(PAZD)(FG)(4FTX4FT-4FTX4FT)	EA	1
0465 6176	INLET (COMPL)(CURB)(TY C1) MOD	EA	1
0467 6356	SET (TY II) (18 IN) (RCP) (3:1) (C)	EA	2

Structure ID	Description	FOC Station / Offset	TOC @ FOC Elevation	FL of Structure	Pipe (N) FL	Pipe (S) FL	Pipe (E) FL	Pipe (W) FL
B-23	PCU (3FT) (RIGHT)	72+70.00, -34.5	94.38	87.88		87.88		
B-24	TY "C1" MOD	72+70.00, 34.5	94.38	84.77	87.78		84.77	84.82
B-25	PCU (3FT) (RIGHT)	76+60.00, -34.5	95.04	88.54		88.54		
B-26	PCU (2FT) (LEFT) 8FTX8FT BASE (BH = 7.5)	76+60.00, -34.5	95.04	84.54		88.44	84.54	84.54
B-27	PCU (3FT) (RIGHT) 8FTX8FT BASE	79+30.00, -34.5	96.24	84.25		84.25	84.25	84.54
B-28	PCU (3FT) (LEFT) 8FTX8FT BASE	79+30.00, 34.5	96.24	84.30	84.30		84.30	84.30
MH-B5	INLET (COMPL) (PSL) (RC) (8FTX8FT)	81+60.00, -38.5	95.93	84.04	90.79		84.04	84.04
	INLET (COMPL) (PAZD) (FG) (3FTX3FT-3FTX3FT)	81+60.00, -55	93.31	89.81		89.81		



MATCH LINE STA. 70+00
 MATCH LINE STA. 82+00



Eric Dietrich
 Eric Dietrich
 94970
 PROFESSIONAL ENGINEER
 LICENSED
 05-03-2019
 NAME DATE

The County of Hidalgo
 Pct 2

Texas Department of Transportation

TEDSI INFRASTRUCTURE GROUP
 Consulting Engineers
 1201 E. Expressway 93
 Mission, Texas 78148
 (936) 424-7398

DICKER ROAD UTILITIES AND DRAINAGE
 STA. 70+00 TO STA. 82+00

SCALE:
 HOR: 1" = 100'
 VER: 1" = 10'

SHEET 6 OF 12

FED. RD. DIV. NO.	COUNTY	SECT.	JOB	HIGHWAY	
06	0921	02	312	DICKER ROAD	
STATE	DIST.	COUNTY	PCT.	CITY	SHEET NO.
TEXAS	PHR	HIDALGO	No 2	HIDALGO	157a

DATE: 5/3/2019 8:35:11 AM
 FILE: Dicker-JD-06.dgn

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.

LEGEND:

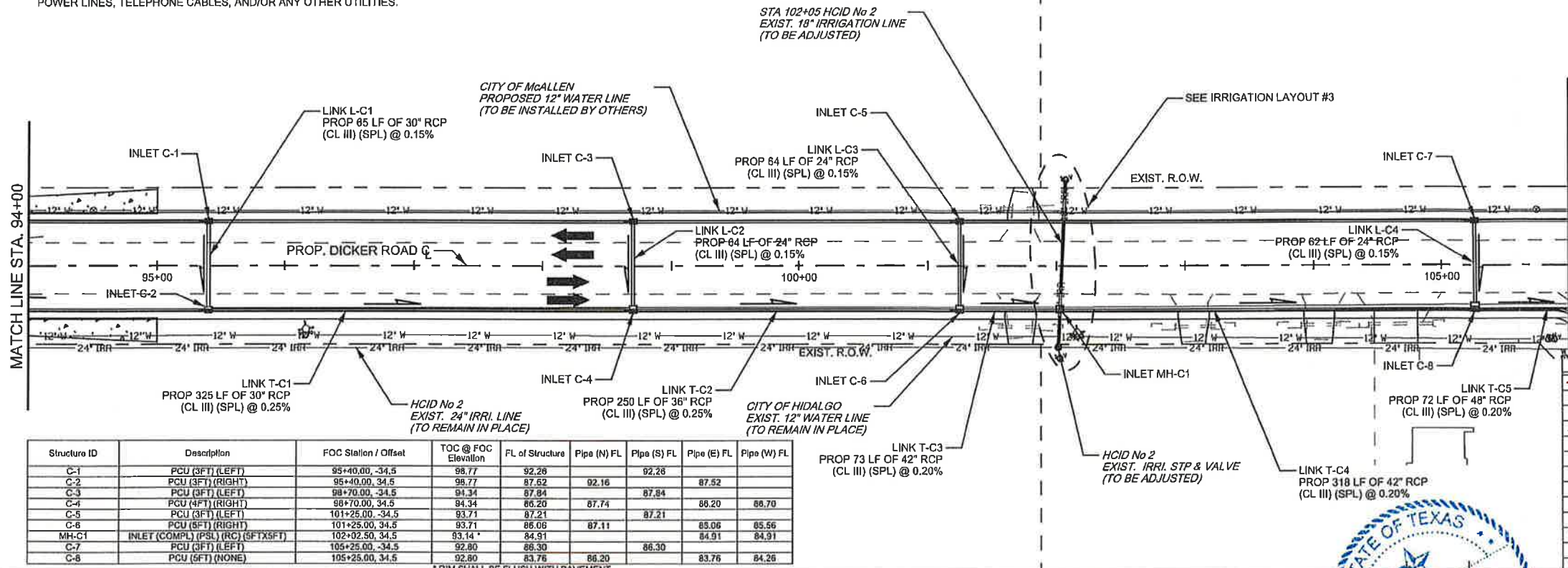
- ☐ SEE P&P SHEETS
- ⊕ EXIST. ITEM TO BE REMOVED UNDER ITEM 496
- ⊕ PROP. CONC. PLUG (NON-PAY ITEM)
- ▨ PROPOSED DRIVEWAY OR TURNOUT (SEE DRIVEWAY/TURNOUT TABLE FOR SETS & PIPE QUANTITIES)
- DIRECTION OF WATER FLOW
- ⊕# TEST HOLE NUMBER

NOTES:

1. SEE ALIGNMENT DATA SHEET FOR PROPOSED CENTERLINE DATA.
2. ALL RCP SHALL BE CL III UNLESS OTHERWISE NOTED.
3. SEE DRAINAGE STRUCTURE STANDARD SHEETS FOR DESCRIPTION OF OFFSET IN STORM DRAIN TABLE.
4. RECONNECTION OF EXISTING STORM DRAIN SHALL BE SUBSIDIARY TO PERTINENT BID ITEMS.
5. SEE "HYDRAULIC DATA SHEETS FOR PAYMENTS OF ALL PROPOSED DRAINAGE STRUCTURES.
6. FOR OTHER DITCH GRADES SEE DITCH PROFILE SHEETS.
7. SEE PROPOSED CROSS SECTIONS FOR MORE INFORMATION.

MATCH LINE STA. 106+00

MATCH LINE STA. 94+00



Structure ID	Description	FOC Station / Offset	TOC @ FOC Elevation	FL of Structure	Pipe (N) FL	Pipe (S) FL	Pipe (E) FL	Pipe (W) FL
C-1	PCU (3FT) (LEFT)	95+40.00, -34.5	98.77	92.26				
C-2	PCU (3FT) (RIGHT)	95+40.00, 34.5	98.77	87.52	92.16		87.52	
C-3	PCU (3FT) (LEFT)	98+70.00, -34.5	94.34	87.84		87.84		
C-4	PCU (4FT) (RIGHT)	98+70.00, 34.5	94.34	86.20	87.74		86.20	86.70
C-5	PCU (3FT) (LEFT)	101+25.00, -34.5	93.71	87.21		87.21		
C-6	PCU (8FT) (RIGHT)	101+25.00, 34.5	93.71	85.06	87.11		85.06	85.56
MH-C1	INLET (COMPL) (PSL) (RC) (SFTX5FT)	102+02.50, 34.5	93.14	84.91		84.91	84.91	84.91
C-7	PCU (3FT) (LEFT)	105+25.00, -34.5	92.80	86.30		86.30		
C-8	PCU (5FT) (NONE)	105+25.00, 34.5	92.80	83.76	86.20		83.76	84.26

* RIM SHALL BE FLUSH WITH PAVEMENT

ITEM	DESCRIPTION	UNIT	QUANTITY
0468 8010	STRUCT ENCAP (SPECIAL)	CY	774
0402 6001	TRENCH EXCAVATION PROTECTION	LF	1290
0464 6039	RC PIPE (CL III)(24 IN)(SPL)	LF	190
0464 8040	RC PIPE (CL III)(30 IN)(SPL)	LF	390
0464 8041	RC PIPE (CL III)(36 IN)(SPL)	LF	250
0464 8042	RC PIPE (CL III)(42 IN)(SPL)	LF	391
0464 8043	RC PIPE (CL III)(48 IN)(SPL)	LF	72
0465 6030	INLET (COMPL)(PCU)(3FT)(LEFT)	EA	4
0465 6031	INLET (COMPL)(PCU)(3FT)(RIGHT)	EA	1
0465 6035	INLET (COMPL)(PCU)(4FT)(RIGHT)	EA	1
0465 6037	INLET (COMPL)(PCU)(5FT)(NONE)	EA	1
0465 6039	INLET (COMPL)(PCU)(5FT)(RIGHT)	EA	1
0465 8074	INLET (COMPL)(PSL)(RC)(SFTX5FT)	EA	1



05-03-2019
 NAME DATE

The County of Hidalgo
 Pct 2



TEDSI INFRASTRUCTURE GROUP
 Consulting Engineers
 1201 E. Expressway 83
 Mission, Texas 78572
 (956) 424-7888

DICKER ROAD UTILITIES AND DRAINAGE

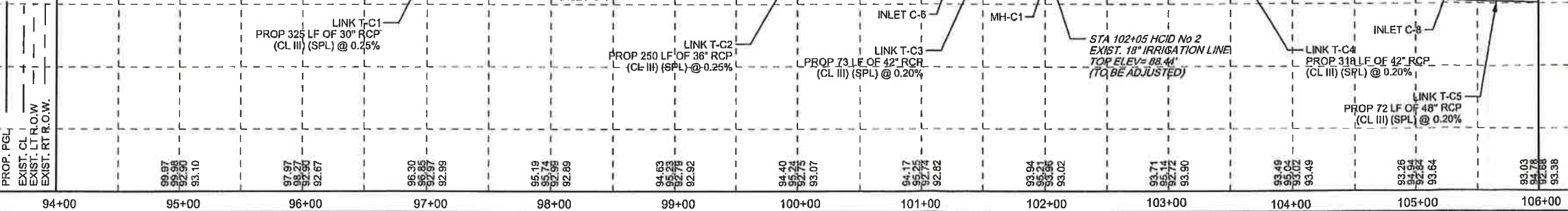
STA. 94+00 TO STA. 106+00

SCALE:
 HOR: 1"=100'
 VER: 1"=10'

SHEET 8 OF 12

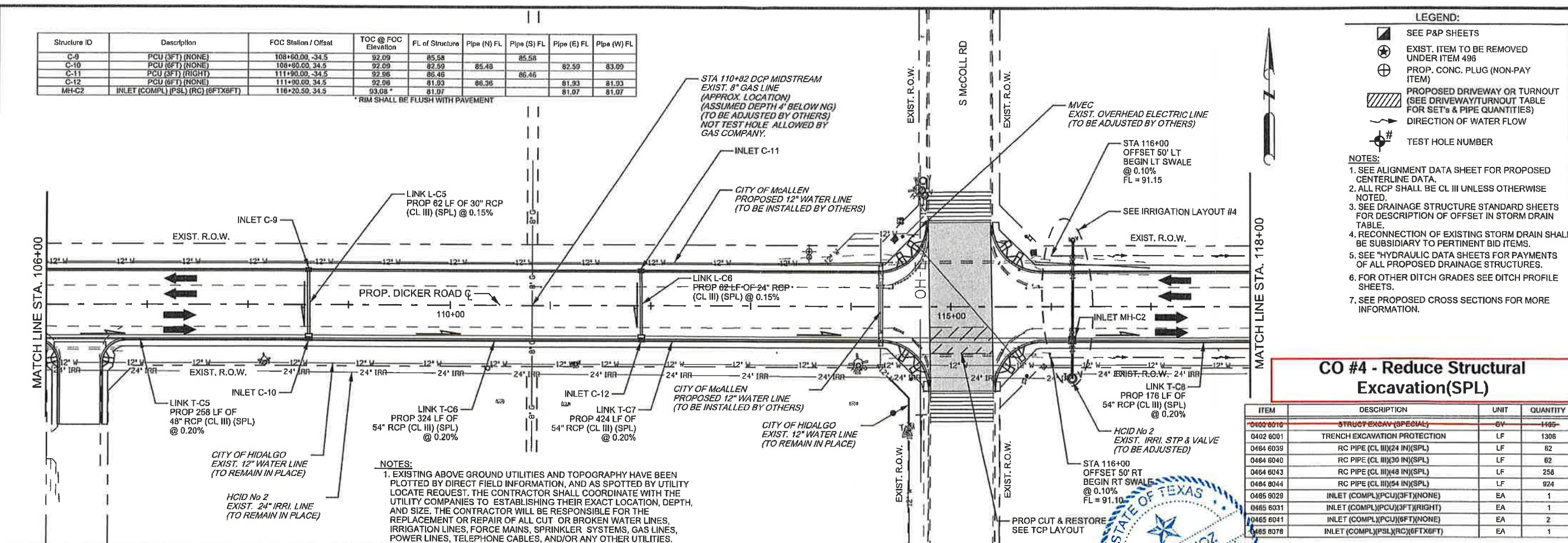
FED. RD DIST. NO.	COUNTY	SECT	JOB	HIGHWAY	
06	0921	02	312	DICKER ROAD	
STATE	DIST	COUNTY	PCT	CITY	SHEET NO.
TEXAS	PHR	HIDALGO	No 2	HIDALGO	159a

DATE: 5/3/2019 8:35:13 AM
 FILE: Dicker-UD-08.dgn



Structure ID	Description	FOC Station / Offset	TOC @ FOC Elevation	FL of Structure	Pipe (N) FL	Pipe (S) FL	Pipe (E) FL	Pipe (W) FL
C-9	PCU (3FT) (NONE)	108+60.00, -34.5	92.09	85.58	85.58			
C-10	PCU (6FT) (NONE)	108+90.00, -34.5	92.09	82.50	85.48	82.50	83.09	
C-11	PCU (3FT) (RIGHT)	111+90.00, -34.5	92.96	86.46	86.46			
C-12	PCU (6FT) (NONE)	111+90.00, -34.5	92.96	81.93	86.35	81.93	81.93	
MH-C2	INLET (COMPL) (PSL) (RC) (6FTX6FT)	116+20.50, 34.5	93.08	81.07				

* RIM SHALL BE FLUSH WITH PAVEMENT



- LEGEND:**
- ☐ SEE P&P SHEETS
 - ⊕ EXIST. ITEM TO BE REMOVED UNDER ITEM 496
 - ⊕ PROP. CONC. PLUG (NON-PAY ITEM)
 - ▨ PROPOSED DRIVEWAY OR TURNOUT (SEE DRIVEWAY/TURNOUT TABLE FOR SET'S & 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 III UNLESS OTHERWISE NOTED.
 3. SEE DRAINAGE STRUCTURE STANDARD SHEETS FOR DESCRIPTION OF OFFSET IN STORM DRAIN TABLE.
 4. RECONNECTION OF EXISTING STORM DRAIN SHALL BE SUBSIDIARY TO PERTINENT BID ITEMS.
 5. SEE "HYDRAULIC DATA SHEETS FOR PAYMENTS OF ALL PROPOSED DRAINAGE STRUCTURES.
 6. FOR OTHER DITCH GRADES SEE DITCH PROFILE SHEETS.
 7. SEE PROPOSED CROSS SECTIONS FOR MORE INFORMATION.

CO #4 - Reduce Structural Excavation(SPL)

ITEM	DESCRIPTION	UNIT	QUANTITY
0400 6010	STRUCT EXCAV (SPECIAL)	CY	1465
0402 6001	TRENCH EXCAVATION PROTECTION	LF	1308
0484 6039	RC PIPE (CL III)(24 IN)(SPL)	LF	62
0484 6040	RC PIPE (CL III)(30 IN)(SPL)	LF	62
0464 6043	RC PIPE (CL III)(48 IN)(SPL)	LF	258
0484 6044	RC PIPE (CL III)(54 IN)(SPL)	LF	924
0465 6029	INLET (COMPL)(PCU)(3FT)(NONE)	EA	1
0465 6031	INLET (COMPL)(PCU)(3FT)(RIGHT)	EA	1
0465 6041	INLET (COMPL)(PCU)(6FT)(NONE)	EA	2
0465 6078	INLET (COMPL)(PSL)(RC)(6FTX6FT)	EA	1

- 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.



Professional Engineer Seal for Eric Dietrich, State of Texas, License No. 94970. Date: 05-03-2019.

The County of Hidalgo
Pct 2



TEDSI INFRASTRUCTURE GROUP
Consulting Engineers
1201 E. Expressway 93
Mission, Texas 78572
(936) 424-7893

DICKER ROAD UTILITIES AND DRAINAGE
STA. 106+00 TO STA. 118+00

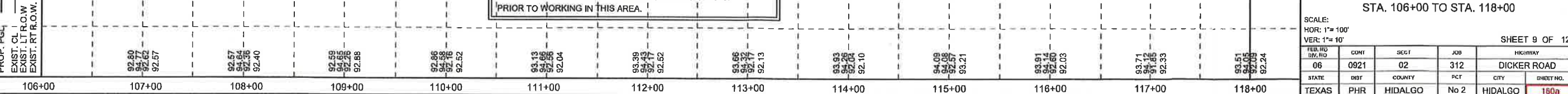
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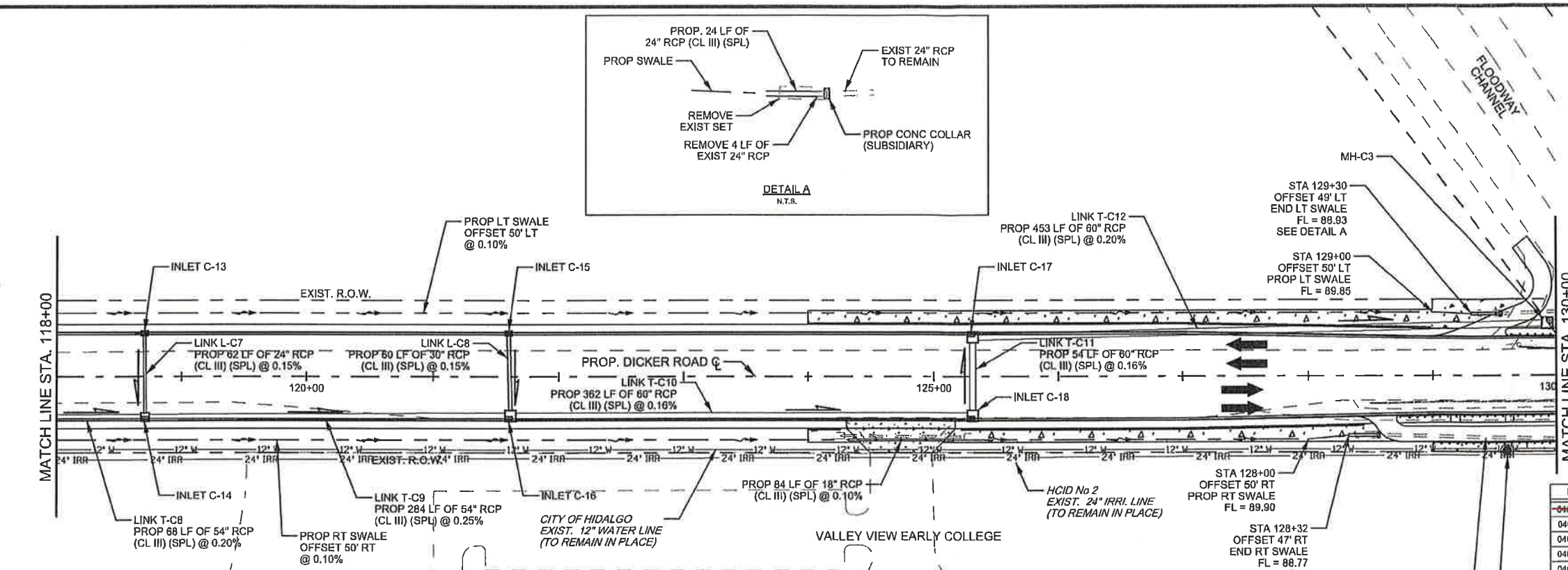
FED. RD. DIV. NO.	CONTRACT NO.	SECTION	JOB NO.	HIGHWAY
06	0921	02	312	DICKER ROAD
STATE	DIST	COUNTY	PCT	CITY
TEXAS	PHR	HIDALGO	No 2	HIDALGO

SHEET 9 OF 12

CAUTION!
EXISTING UNDERGROUND GAS LINE THE CONTRACTOR WILL CONTACT AND COORDINATE WITH DCP MIDSTREAM LP UTILITY COORDINATOR AT 956-383-9462 OR 956-240-3407 PRIOR TO WORKING IN THIS AREA.

DATE: 5/3/2019 8:35:23 AM
FILE: Dicker-UD-09.dgn





- LEGEND:**
- SEE P&P SHEETS
 - ⊗ EXIST. ITEM TO BE REMOVED UNDER ITEM 498
 - ⊕ PROP. CONC. PLUG (NON-PAY ITEM)
 - ▨ PROPOSED DRIVEWAY OR TURNOUT (SEE DRIVEWAY/TURNOUT TABLE FOR SET'S & PIPE QUANTITIES)
 - DIRECTION OF WATER FLOW
 - ⊙# TEST HOLE NUMBER

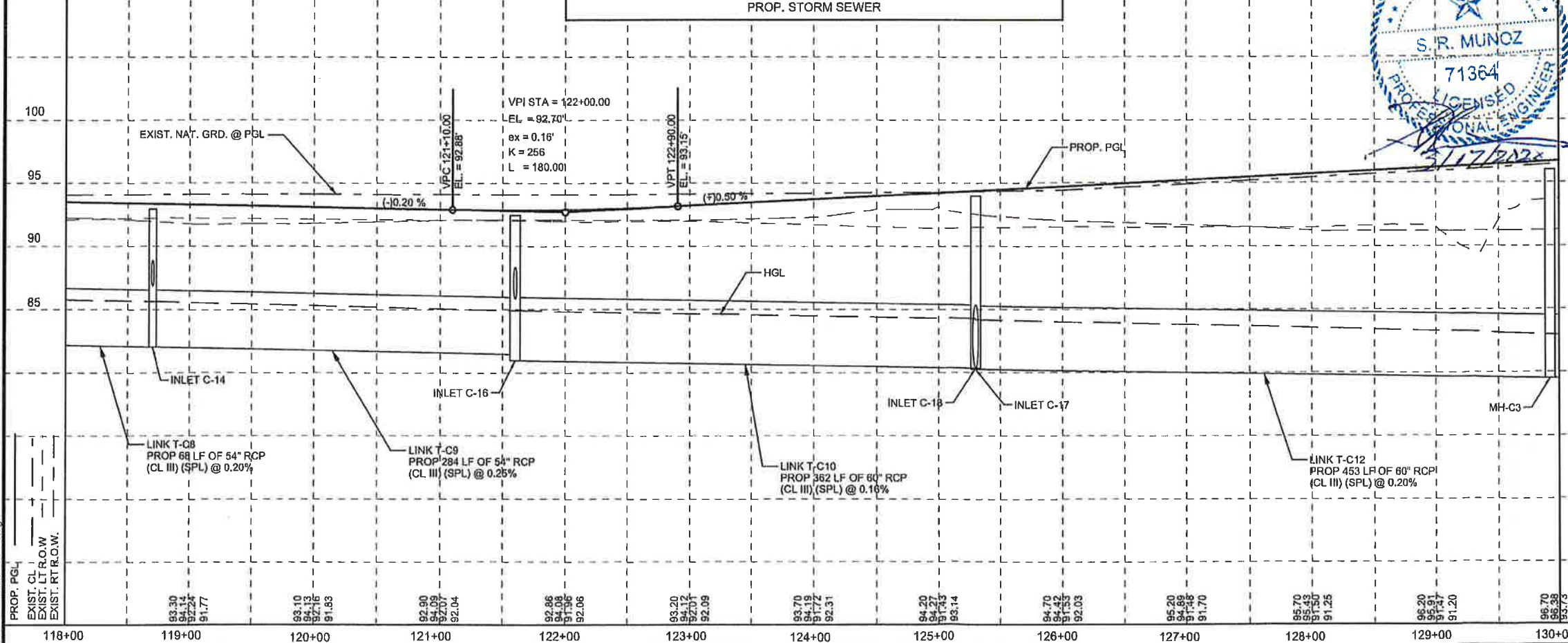
- NOTES:**
1. SEE ALIGNMENT DATA SHEET FOR PROPOSED CENTERLINE DATA.
 2. ALL RCP SHALL BE CL III UNLESS OTHERWISE NOTED.
 3. SEE DRAINAGE STRUCTURE STANDARD SHEETS FOR DESCRIPTION OF OFFSET IN STORM DRAIN TABLE.
 4. RECONNECTION OF EXISTING STORM DRAIN SHALL BE SUBSIDIARY TO PERTINENT BID ITEMS.
 5. SEE "HYDRAULIC DATA SHEETS FOR PAYMENTS OF ALL PROPOSED DRAINAGE STRUCTURES.
 6. FOR OTHER DITCH GRADES SEE DITCH PROFILE SHEETS.
 7. SEE PROPOSED CROSS SECTIONS FOR MORE INFORMATION.

CO #4 - Reduce Structural Excavation(SPL)

ITEM	DESCRIPTION	UNIT	QUANTITY
0400 0910	STRUCT EXCAV (SPGIAL)	CY	1308
0402 6001	TRENCH EXCAVATION PROTECTION	LF	1343
0484 6038	RC PIPE (CL III)(18 IN)(SPL)	LF	84
0484 6039	RC PIPE (CL III)(24 IN)(SPL)	LF	82
0484 6040	RC PIPE (CL III)(30 IN)(SPL)	LF	80
0484 6044	RC PIPE (CL III)(54 IN)(SPL)	LF	352
0484 6045	RC PIPE (CL III)(60 IN)(SPL)	LF	069
0485 0029	INLET (COMPL)(PCU)(3FT)(NONE)	EA	3
0485 6023	INLET (COMPL)(PCU)(3FT)(LEFT)	EA	1
0485 6031	INLET (COMPL)(PCU)(3FT)(RIGHT)	EA	1
0485 6041	INLET (COMPL)(PCU)(6FT)(NONE)	EA	1
0485 6077	INLET (COMPL)(PSL)(RC)(8FT)(8FT)	EA	1

- 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.

Structure ID	Description	FOC Station / Offset	TOC @ FOC Elevation	FL of Structure	Pipe (N) FL	Pipe (S) FL	Pipe (E) FL	Pipe (W) FL
C-13	PCU (3FT) (LEFT)	118+70.00, -34.5	92.56	86.46		86.46		
C-14	PCU (6FT) (NONE)	118+70.00, 34.5	92.96	80.67		80.67	80.67	
C-15	PCU (3FT) (NONE)	121+60.00, -34.5	92.43	85.92		85.92		
C-16	PCU (3FT) (NONE) (8FT)(8FT) BASE	121+60.00, 34.5	92.43	79.34		85.82	79.34	79.84
C-17	PCU (3FT) (RIGHT) (8FT)(8FT) BASE	125+30.00, -34.5	93.95	78.84			78.84	78.84
C-18	PCU (3FT) (NONE) (8FT)(8FT) BASE	125+30.00, 34.5	93.95	78.75			78.75	78.75
MH-C3	INLET (COMPL) (PSL) (RC) (8FT)(8FT)	129+92.97, -41	96.01	77.72			77.72	



NAME: *Eric Dietrich* DATE: 05-03-2019

The County of Hidalgo
Pct 2



TEDSI INFRASTRUCTURE GROUP
 Consulting Engineers
 1201 E. Expressway 83
 Mission, Texas 78572
 (936) 424-7898

DICKER ROAD UTILITIES AND DRAINAGE
STA. 128+00 TO STA. 130+00

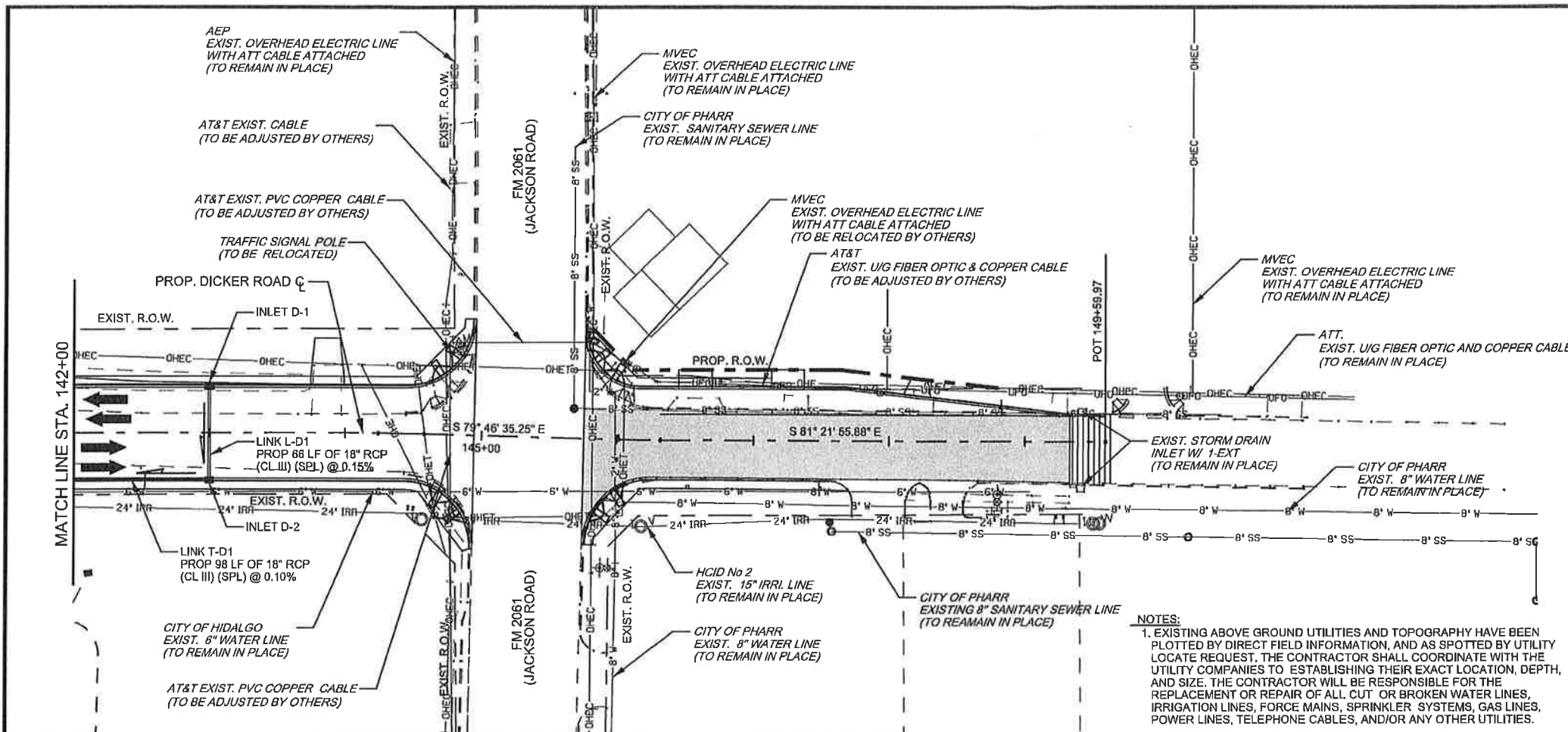
SCALE: HOR: 1"= 100'
VER: 1"= 10'

SHEET 10 OF 12

FED. HD DIST. NO.	CONT.	SECT.	JOB	HIGHWAY
06	0921	02	312	DICKER ROAD
STATE	DIST	COUNTY	PCT	CITY
TEXAS	PHR	HIDALGO	No 2	HIDALGO

SHEET NO. 161a

DATE: 5/3/2019 8:35:25 AM
FILE: Dicker-UD-10.dgn



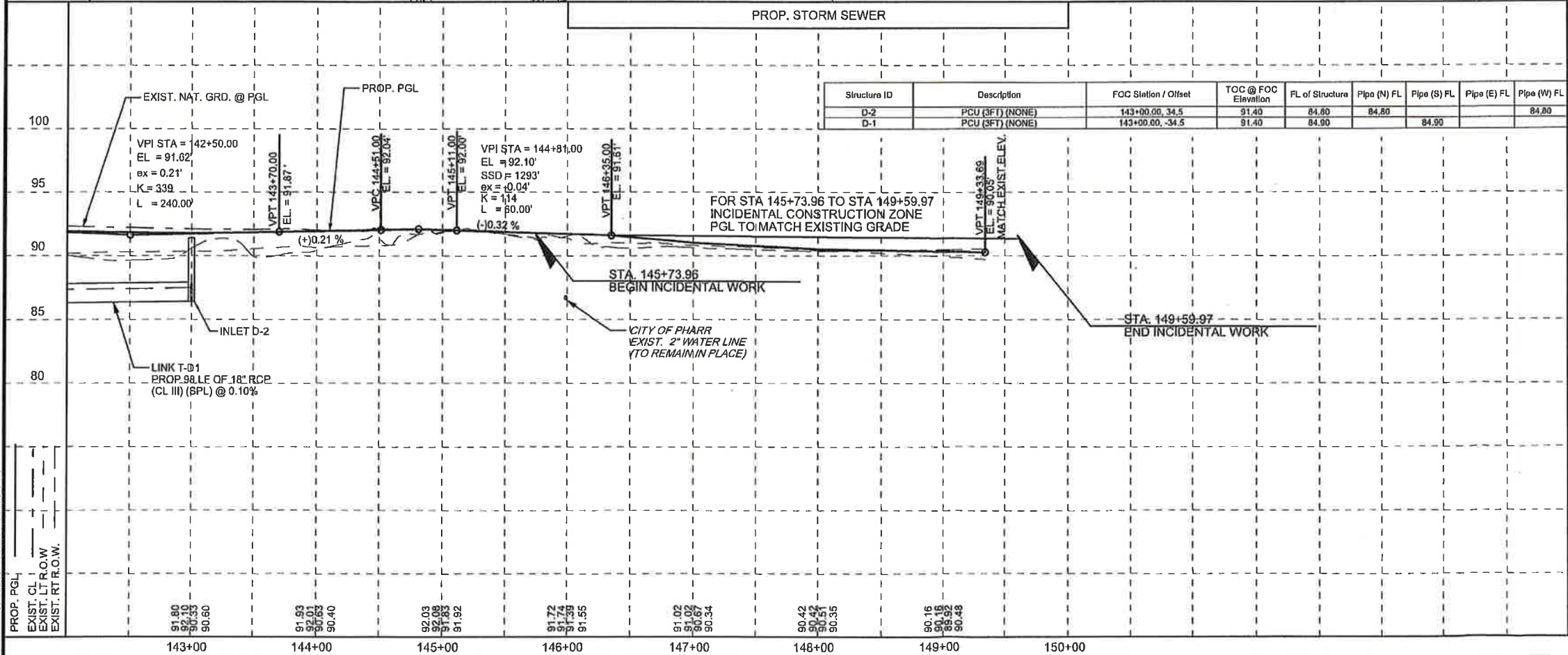
- LEGEND:**
- SEE P&P SHEETS
 - EXIST. ITEM TO BE REMOVED UNDER ITEM 498
 - PROP. CONC. PLUG (NON-PAY ITEM)
 - PROPOSED DRIVEWAY OR TURNOUT (SEE DRIVEWAY/TURNOUT TABLE FOR SET'S & PIPE QUANTITIES)
 - DIRECTION OF WATER FLOW
 - TEST HOLE NUMBER
- NOTES:**
- SEE ALIGNMENT DATA SHEET FOR PROPOSED CENTERLINE DATA.
 - ALL RCP SHALL BE CL III UNLESS OTHERWISE NOTED.
 - SEE DRAINAGE STRUCTURE STANDARD SHEETS FOR DESCRIPTION OF OFFSET IN STORM DRAIN TABLE.
 - RECONNECTION OF EXISTING STORM DRAIN SHALL BE SUBSIDIARY TO PERTINENT BID ITEMS.
 - SEE HYDRAULIC DATA SHEETS FOR PAYMENTS OF ALL PROPOSED DRAINAGE STRUCTURES.
 - FOR OTHER DITCH GRADES SEE DITCH PROFILE SHEETS.
 - SEE PROPOSED CROSS SECTIONS FOR MORE INFORMATION.



CO #4 - Reduce Structural Excavation(SPL)

ITEM	DESCRIPTION	UNIT	QUANTITY
0409 0010	STRUCT EXCAV (SPECIAL)	CY	56
0402 0001	TRENCH EXCAVATION PROTECTION	LF	164
0484 0038	RC PIPE (CL III)(18 IN)(SPL)	LF	164
0495 0029	INLET (COMPL)(PCU)(3FT)(NONE)	EA	2

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.



Professional Engineer seal for Eric Dietrich, License No. 94970, dated 7/19/2019.

The County of Hidalgo
Pct 2

Texas Department of Transportation

TEDSI INFRASTRUCTURE GROUP
 Consulting Engineers
 1201 E. Expressway 83
 Mission, Texas 78572
 (956) 424-7898

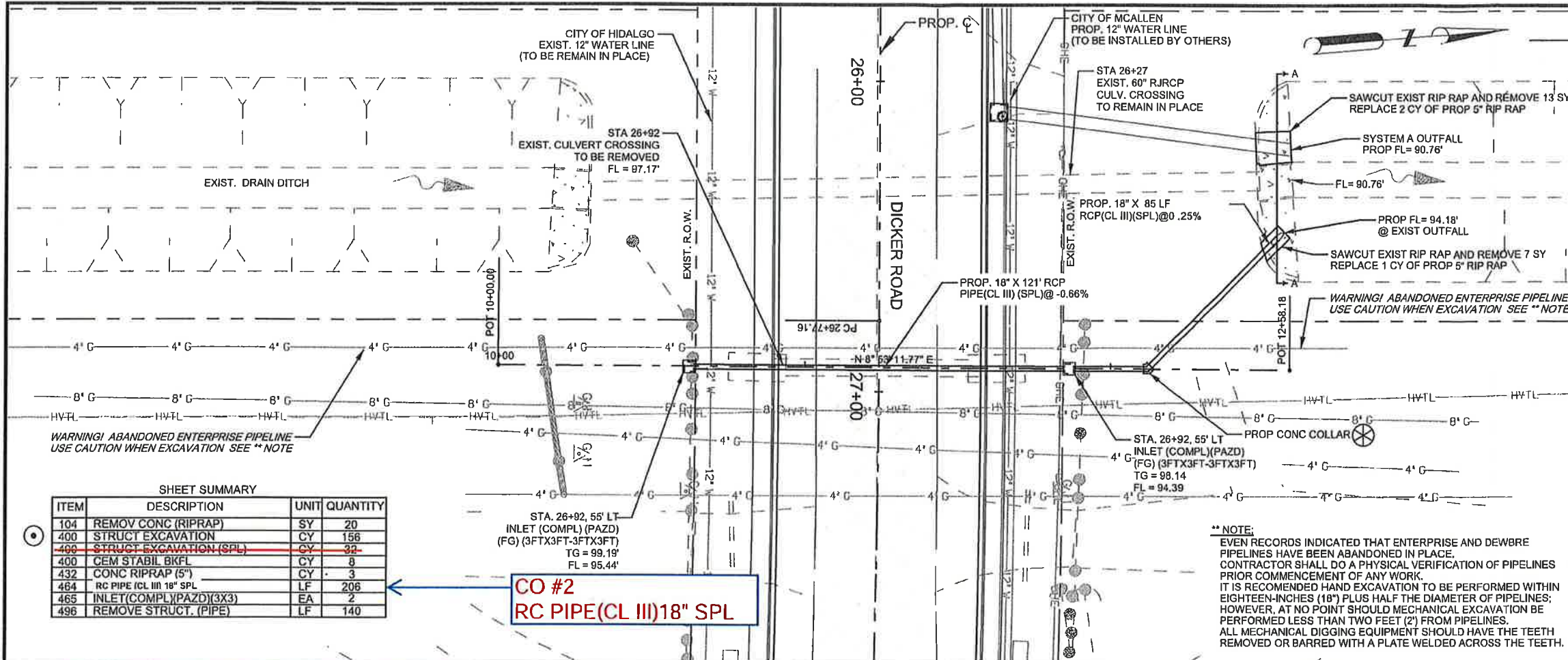
DICKER ROAD UTILITIES AND DRAINAGE
 STA. 142+00 TO STA. 149+60.07

SCALE:
 HOR: 1" = 100'
 VER: 1" = 10'

SHEET 12 OF 12

FED. HDB. NO.	CONF.	SECT.	JOB.	HIGHWAY	
06	0921	02	312	DICKER ROAD	
STATE	DIST.	COUNTY	PCT.	CITY	SHEET NO.
Texas	PHR	HIDALGO	No 2	HIDALGO	163a

DATE: 07/02/2011 8:05:28 AM
 FILE: S:\DCS\Sheets_XM.cel



- LEGEND:**
- EXISTING ROADWAY
 - DRIVEWAYS
 - CONCRETE
 - TO BE REMOVED UNDER ITEM 496 INCLUDES PAYMENT FOR REMOVAL OF ALL APPURTENANCES
 - DIRECTION OF TRAFFIC
 - OBJ MARKER ASSM
 - FOR CONTRACTORS INFORMATION ONLY, NON PAY
 - CULVERT HYDRAULIC HEC-RAS RUN WITH CULVERT PROGRAM
 - NON PAY ITEM, SUBSIDIARY TO PERTINENT BID ITEMS

- 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 CONFIRM THAT CONFLICTS WITH EXISTING UTILITIES HAVE BEEN RESOLVED IN ADVANCE OF CONSTRUCTION. DAMAGES CAUSED BY OR TO EXISTING UTILITIES ARE THE RESPONSIBILITY OF THE CONTRACTOR.
 3. CULVERT STRUCTURES MODIFICATIONS TO BE DONE IN PHASE I. IF 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.

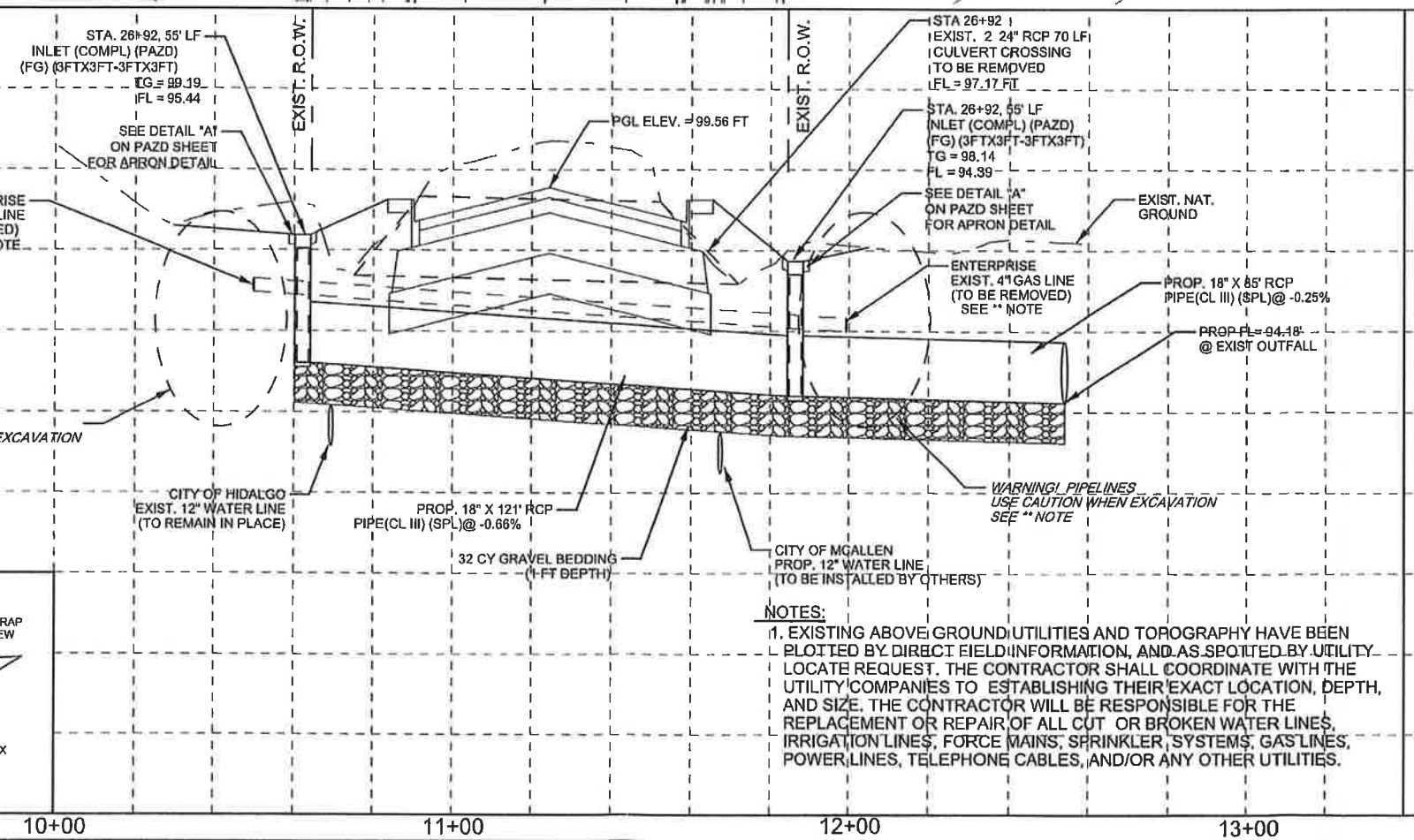
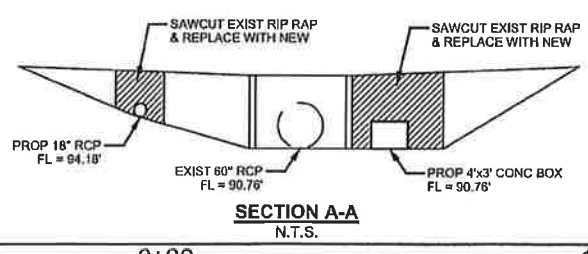
SHEET SUMMARY

ITEM	DESCRIPTION	UNIT	QUANTITY
104	REMOV CONC (RIPRAP)	SY	20
400	STRUCT EXCAVATION	CY	156
496	STRUCT EXCAVATION (SPL)	CY	32
400	CEM STABIL BKFL	CY	8
432	CONC RIPRAP (5")	CY	3
464	RC PIPE (CL III) 18" SPL	LF	206
465	INLET (COMPL) (PAZD) (3X3)	EA	2
496	REMOVE STRUCT. (PIPE)	LF	140

**CO #2
RC PIPE (CL III) 18" SPL**

**** NOTE:**
EVEN RECORDS INDICATED THAT ENTERPRISE AND DEWBRE PIPELINES HAVE BEEN ABANDONED IN PLACE. CONTRACTOR SHALL DO A PHYSICAL VERIFICATION OF PIPELINES PRIOR COMMENCEMENT OF ANY WORK. IT IS RECOMMENDED HAND EXCAVATION TO BE PERFORMED WITHIN EIGHTEEN-INCHES (18") PLUS HALF THE DIAMETER OF PIPELINES; HOWEVER, AT NO POINT SHOULD MECHANICAL EXCAVATION BE PERFORMED LESS THAN TWO FEET (2') FROM PIPELINES. ALL MECHANICAL DIGGING EQUIPMENT SHOULD HAVE THE TEETH REMOVED OR BARRED WITH A PLATE WELDED ACROSS THE TEETH.

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 (Irr)
Add Standard Sheet - Concrete Piling
CO #4 - Reduce Structural Excavation (SPL)



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.

STATE OF TEXAS
ROBERTO FINA CARRAL
116857
PROFESSIONAL ENGINEER
ROBERTO FINA CARRAL
DATE 4/26/2018

The County of Hidalgo
Pct 2

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Texas Department of Transportation

TEDSI INFRASTRUCTURE GROUP
Consulting Engineers
1201 E. Expressway 83
Mission, Texas 78152
(956) 424-2899

DICKER ROAD
CULVERT NO. 1
HCIWD No 3 DRAIN
STA 26+92.19

SCALE:
HOR: 1" = 40'
VER: 1" = 4'

SHEET NO. 1 OF 3

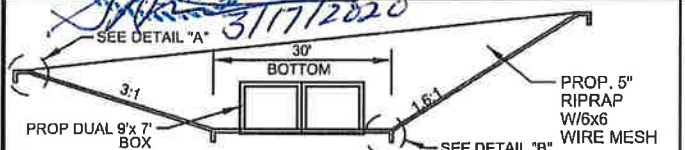
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06	0921	02	312	DICKER ROAD	
STATE	DIST.	COUNTY	PCT.	CITY	SHEET NO.
TEXAS	PHR	HIDALGO	No 2	HIDALGO	164a

DATE: 4/26/2018 1:35:36 PM
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SHEET SUMMARY

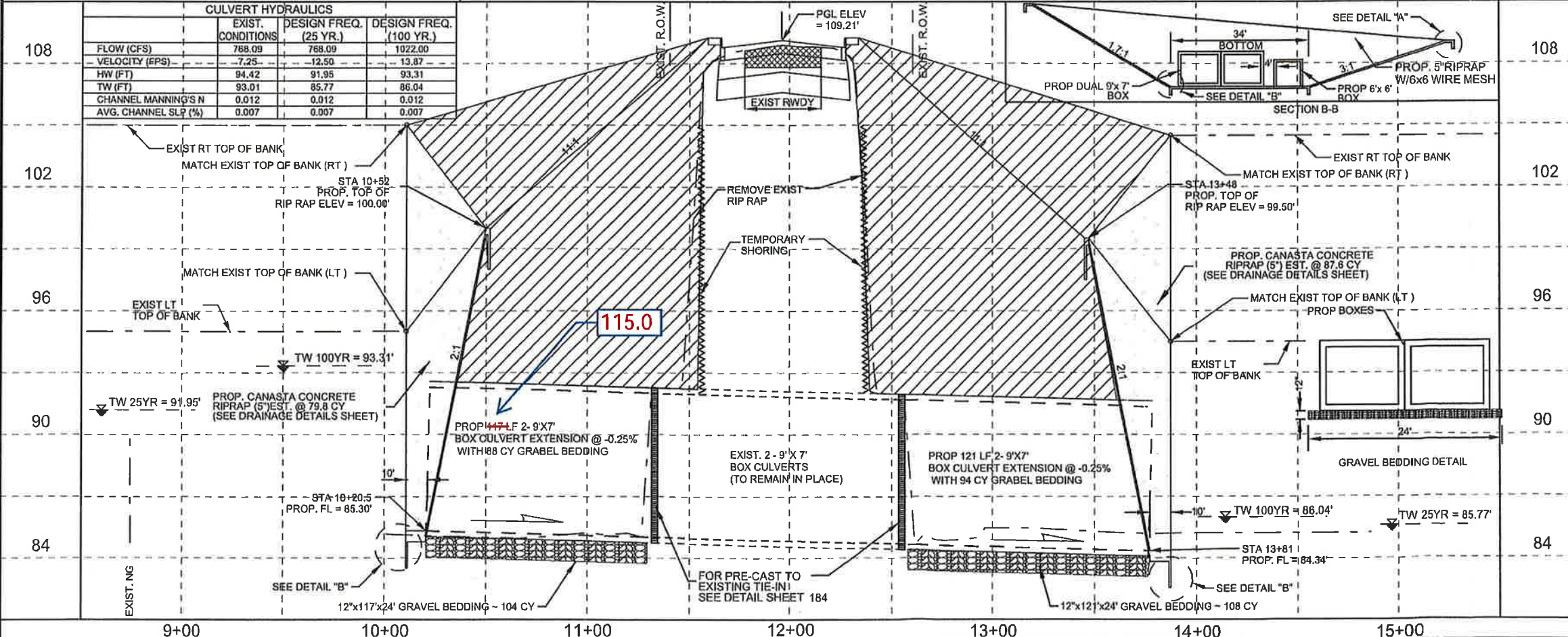
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132	EMBANKMENT	CY	11500
400	STRUCT EXCAVATION	CY	1280
466	STRUCT EXCAVATION (GPL)	CY	343
403	TEMP SPL SHORING	SF	1300
432	RIPRAP (CONC) 5"	CY	187.4
462	CONC BOX CULV. (9X7) EXTEND	LF	472.0

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(Irr)
 Add Standard Sheet - Concrete Piling
 CO #4 - Reduce Structural Excavation(SPL)



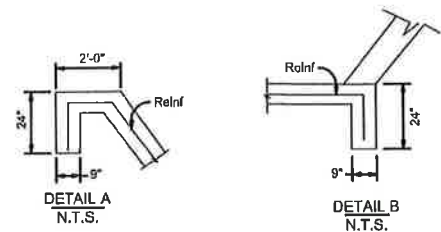
CULVERT HYDRAULICS

	EXIST. CONDITIONS	DESIGN FREQ. (25 YR.)	DESIGN FREQ. (100 YR.)
FLOW (CFS)	788.09	788.09	1022.00
VELOCITY (FPS)	7.25	12.50	13.87
HW (FT)	94.42	91.95	93.31
TW (FT)	93.01	85.77	86.04
CHANNEL MANNING'S N	0.012	0.012	0.012
AVG. CHANNEL SLP (%)	0.007	0.007	0.007



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.

- LEGEND:**
- EXISTING ROADWAY
 - EMBANKMENT
 - CONCRETE
 - TO BE REMOVED UNDER ITEM 496 INCLUDES PAYMENT FOR REMOVAL OF ALL APPURTENANCES
 - DIRECTION OF TRAFFIC
 - OBJ MARKER ASSM
 - FOR CONTRACTORS INFORMATION ONLY, NON PAY
 - CULVERT HYDRAULIC HEC-RAS RUN WITH CULVERT PROGRAM
 - NON-PAY, SUBSIDIARY TO PERTINENT BID ITEMS
 - TEMPORARY SHORING



- NOTES:**
- 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.
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 - CULVERT STRUCTURES MODIFICATIONS TO BE DONE IN PHASE I IF CONTRACTOR OPTS TO DO IT IN ANY OTHER PHASE, ANY SPECIAL SHORING REQUIRED WILL BE SUBSIDIARY TO CULVERT ITEMS.
 - PROP. BACKFILL WITH CEMENT STABIL. BACKFILL 1' ABOVE SOFFIT OF PIPE IF RESTORING PAVEMENT
 - SEE ALIGNMENT DATA SHEET FOR PROP. & EXIST. CENTERLINE DATA.
 - SEE CULVERT LAYOUT CROSS SECTIONS FOR DETAILS

STATE OF TEXAS
 ROBERTO FINA CARRAL
 116857
 LICENSED PROFESSIONAL ENGINEER
 DATE 4/26/2018

The County of Hidalgo
 Pct 2

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 Texas Department of Transportation

TEDSI INFRASTRUCTURE GROUP
 Consulting Engineers
 1301 E. Expressway 83
 Mission, Texas 78572
 (936) 424-7898

DICKER ROAD CULVERT NO. 2 STA 86+89.34

SCALE:
 HOR: 1" = 60'
 VER: 1" = 6'

SHEET 2 OF 3

FED. RD DIST. NO.	CONT.	SECT.	JOB	HIGHWAY	
06	0921	02	312	DICKER ROAD	
STATE	DIST.	COUNTY	PCT.	CITY	SHEET NO.
TEXAS	PHR	HIDALGO	No 2	HIDALGO	165a

DATE: 4/26/2018 1:35:37 PM
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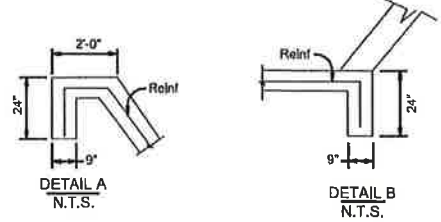
SHEET SUMMARY		
ITEM	DESCRIPTION	QUANTITY
132	EMBANKMENT	7860
400	STRUCT. EXCAVATION	1244
400	STRUCT. EXCAVATION (SPL)	62
403	TEMP SPL SHORING	1900
432	RIPRAP (CONC) 5"	146.4
462	CONC BOX CULV.(7X5) EXTEND	126

CO #4 - Reduce Structural Excavation(SPL)

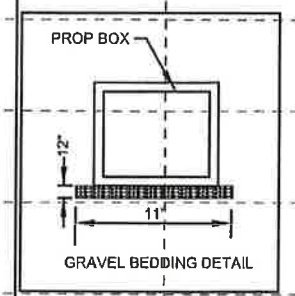
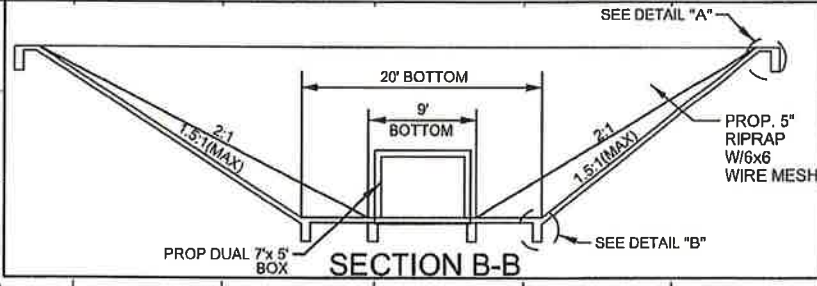
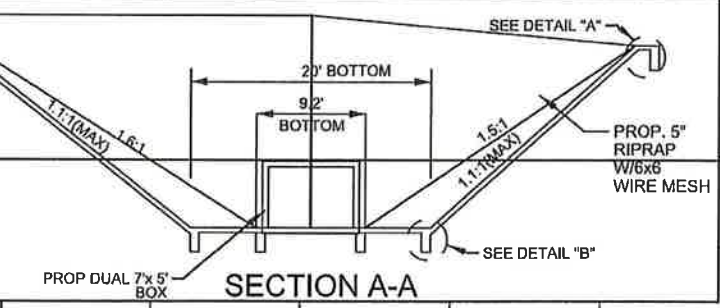
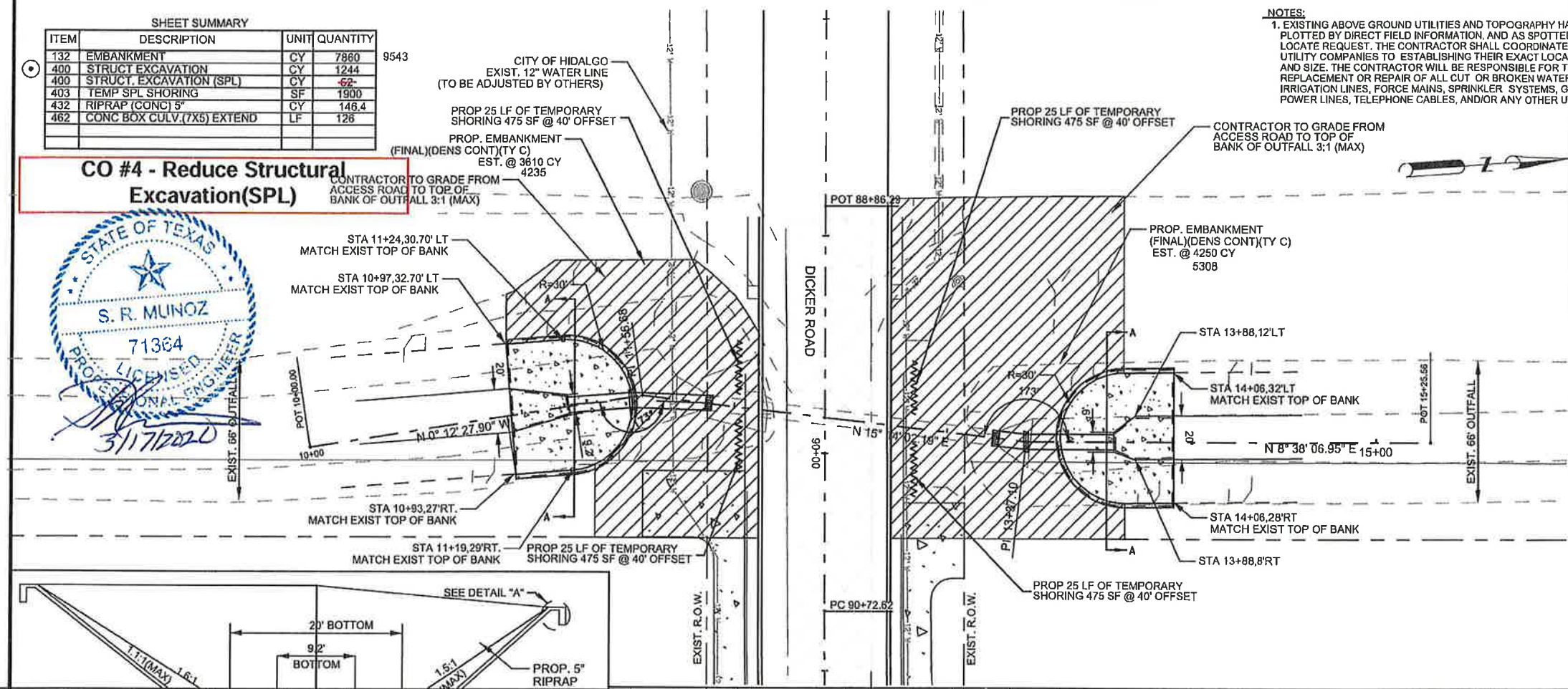


NOTES:
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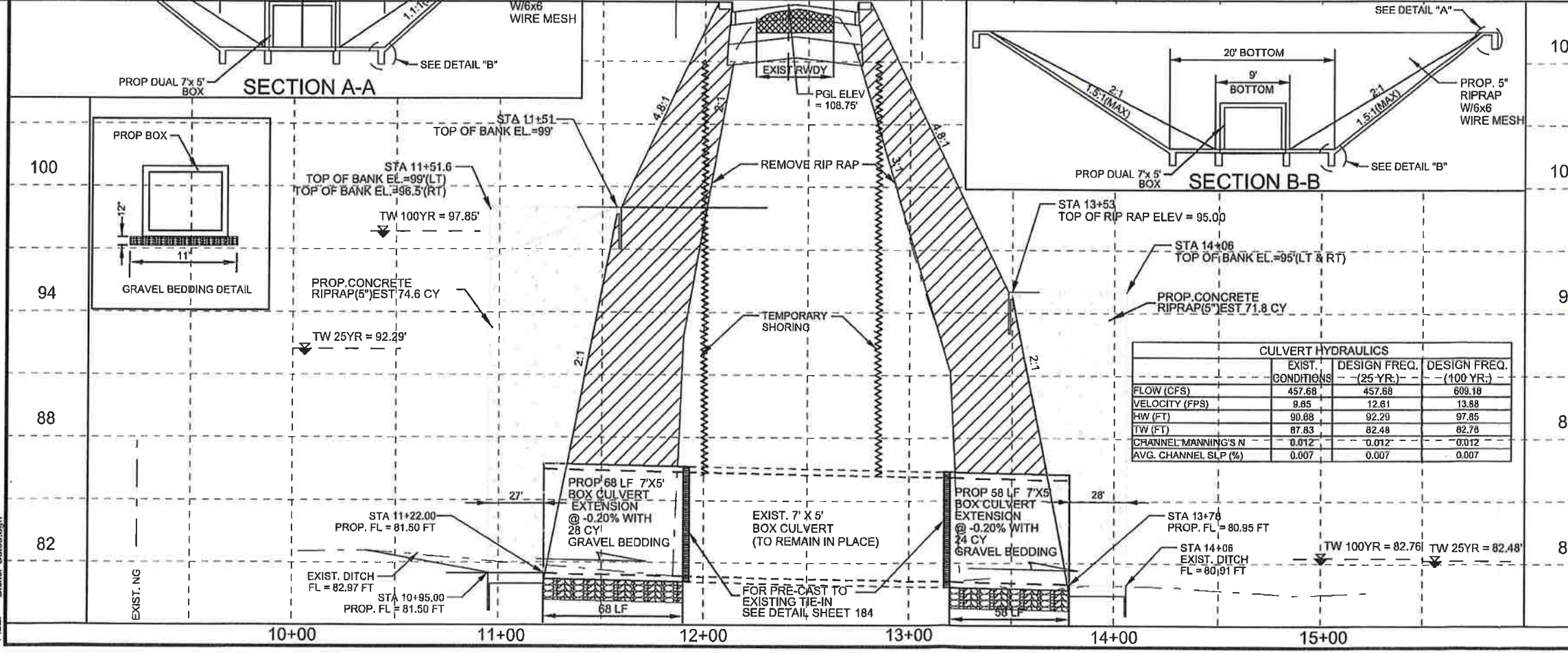
- LEGEND:**
- EXISTING ROADWAY
 - EMBANKMENT
 - CONCRETE
 - TO BE REMOVED UNDER ITEM 496 INCLUDES PAYMENT FOR REMOVAL OF ALL APPURTENANCES
 - DIRECTION OF TRAFFIC
 - OBJ MARKER ASSM
 - FOR CONTRACTORS INFORMATION ONLY, NON PAY
 - CULVERT HYDRAULIC HEC-RAS RUN WITH CULVERT PROGRAM
 - NON-PAY, SUBSIDIARY TO PERTINENT BID ITEMS



- NOTES:**
- 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.
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 - CULVERT STRUCTURES MODIFICATIONS TO BE DONE IN PHASE I IF CONTRACTOR OPTS TO DO IT IN ANY OTHER PHASE, ANY SPECIAL SHORING REQUIRED WILL BE SUBSIDIARY TO CULVERT ITEMS.
 - PROP. BACKFILL WITH CEMENT STABIL. BACKFILL 1' ABOVE SOFFIT OF PIPE IF RESTORING PAVEMENT
 - SEE ALIGNMENT DATA SHEET FOR PROP. & EXIST. CENTERLINE DATA.
 - SEE CULVERT LAYOUT CROSS SECTIONS FOR DETAILS



	EXIST. CONDITIONS	DESIGN FREQ. (25-YR.)	DESIGN FREQ. (100-YR.)
FLOW (CFS)	457.68	457.68	609.18
VELOCITY (FPS)	9.85	12.61	13.88
HW (FT)	90.88	92.29	97.85
TW (FT)	87.83	82.48	82.78
CHANNEL MANNING'S N	0.012	0.012	0.012
AVG. CHANNEL SLP (%)	0.007	0.007	0.007



The County of Hidalgo
Pct 2



TEDSI INFRASTRUCTURE GROUP
 Consulting Engineers
 1201 E. Expressway 81
 Mission, Texas 78172
 (956) 424-7359

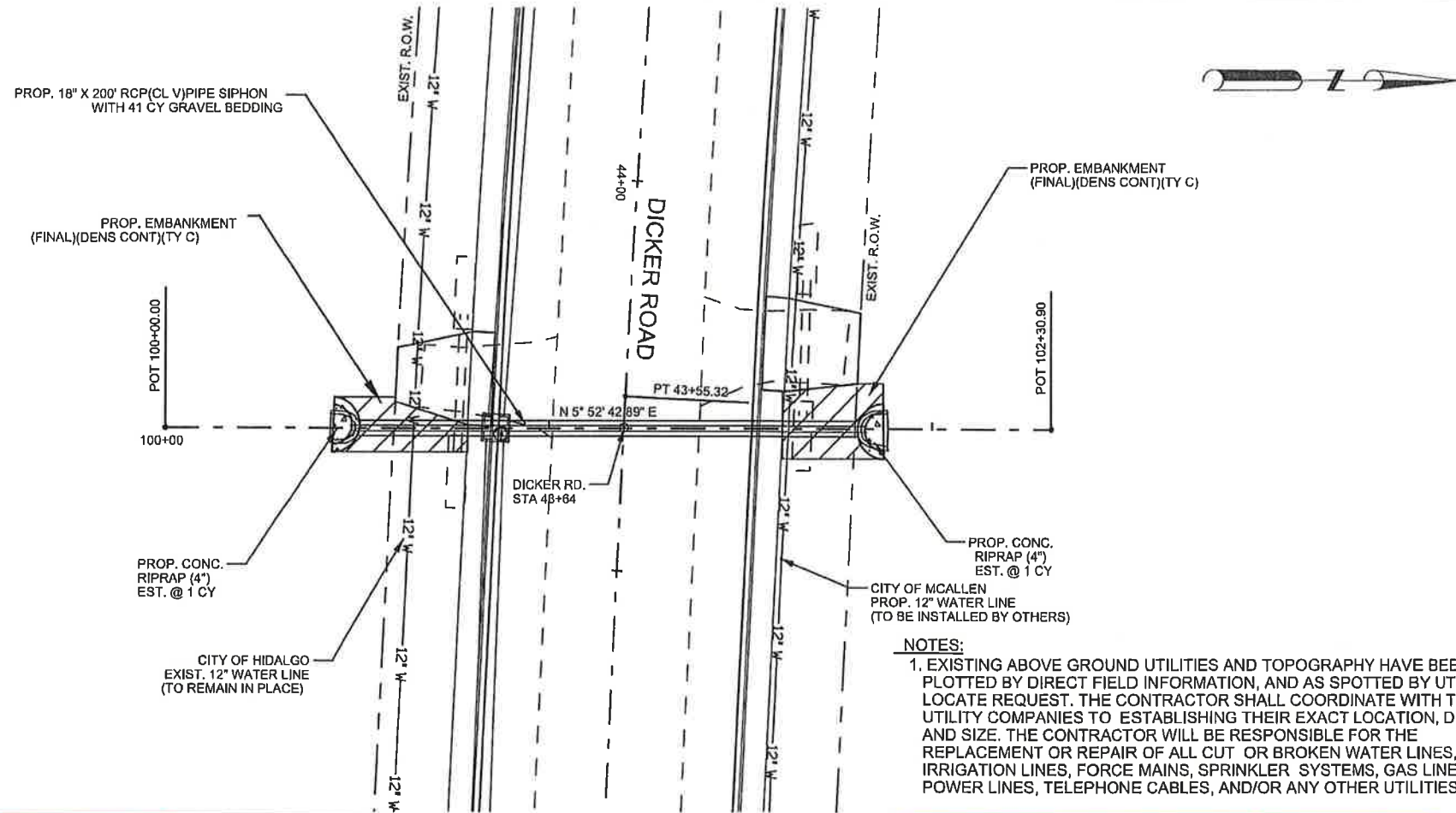
**DICKER ROAD CULVERT NO. 3
 STA 89+93.93**

SCALE:
 HOR: 1" = 60'
 VER: 1" = 8'

SHEET 3 OF 3

FED. RD. DIST.	CONTR.	SECT.	JOB	HIGHWAY	
06	0921	02	312	DICKER ROAD	
STATE	DIST.	COUNTY	PCT.	CITY	SHEET NO.
TEXAS	PHR	HIDALGO	No 2	HIDALGO	165a

DATE: 4/26/2018 1:35:38 PM
 FILE: Dicker-Cul03.dgn



- LEGEND:**
- ⊗ NON-PAY, SUBSIDIARY TO PERTINENT BID ITEMS.
 - ⊛ TO BE REMOVED UNDER ITEM 496. INCLUDES PAYMENT FOR REMOVAL OF ALL APPURTENANCES.
 - ⊙ NON-PAY ITEM, FOR CONTRACTORS' INFORMATION ONLY.
 - ⊕ THE CONTRACTOR SHALL CONFIRM THAT THE TOP ELEVATION ON THE PROPOSED STANDPIPE IS AT THE SAME ELEVATION AS THE EXISTING STANDPIPE
 - ⊖ ROCK FILTER DAM TY 2
 - T.O.S. - TOP OF STRUCTURE

- NOTES:**
1. THE CONTRACTOR WILL COORDINATE WITH H.C. I.D. NO. 2 48 HOURS PRIOR TO ANY WORK DONE ON OR NEAR THE IRRIGATION STRUCTURES. SONNY HINOJOSA- (956)787-2754.
 2. PRIOR TO WORKING OUTSIDE THE ROW THE CONTRACTOR SHALL NOTIFY PROPERTY OWNER(S). CAUTION SHALL BE TAKEN NOT TO DAMAGE EXISTING FENCES, TREES, ETC. ANY DAMAGES DONE TO THEIR PROPERTY SHALL BE REPAIRED AT CONTRACTORS EXPENSE.
 3. THE CONTRACTOR SHALL CONFIRM THAT CONFLICTS WITH EXISTING UTILITIES HAVE BEEN RESOLVED IN ADVANCE OF CONSTRUCTION. DAMAGES CAUSED BY OR TO EXISTING UTILITIES ARE THE RESPONSIBILITY OF THE CONTRACTOR.
 4. ALL PVC ELBOWS, AND CONNECTIONS SHALL BE SUBSIDIARY TO PERTINENT BID ITEMS.
 5. DURING CUT & RESTORE OPERATIONS, CONTRACTOR SHALL UTILIZE ADEQUATE TRAFFIC CONTROL MEASURES INCLUDING A FLAG PERSON.
 6. SEE DRAINAGE DETAILS SHEET FOR IRRIGATION PIPE BEDDING AND BACKFILL DETAIL.

SHEET SUMMARY

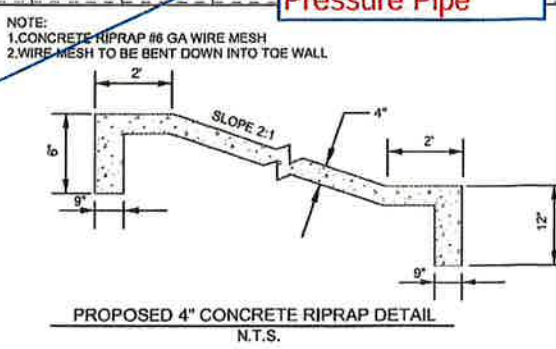
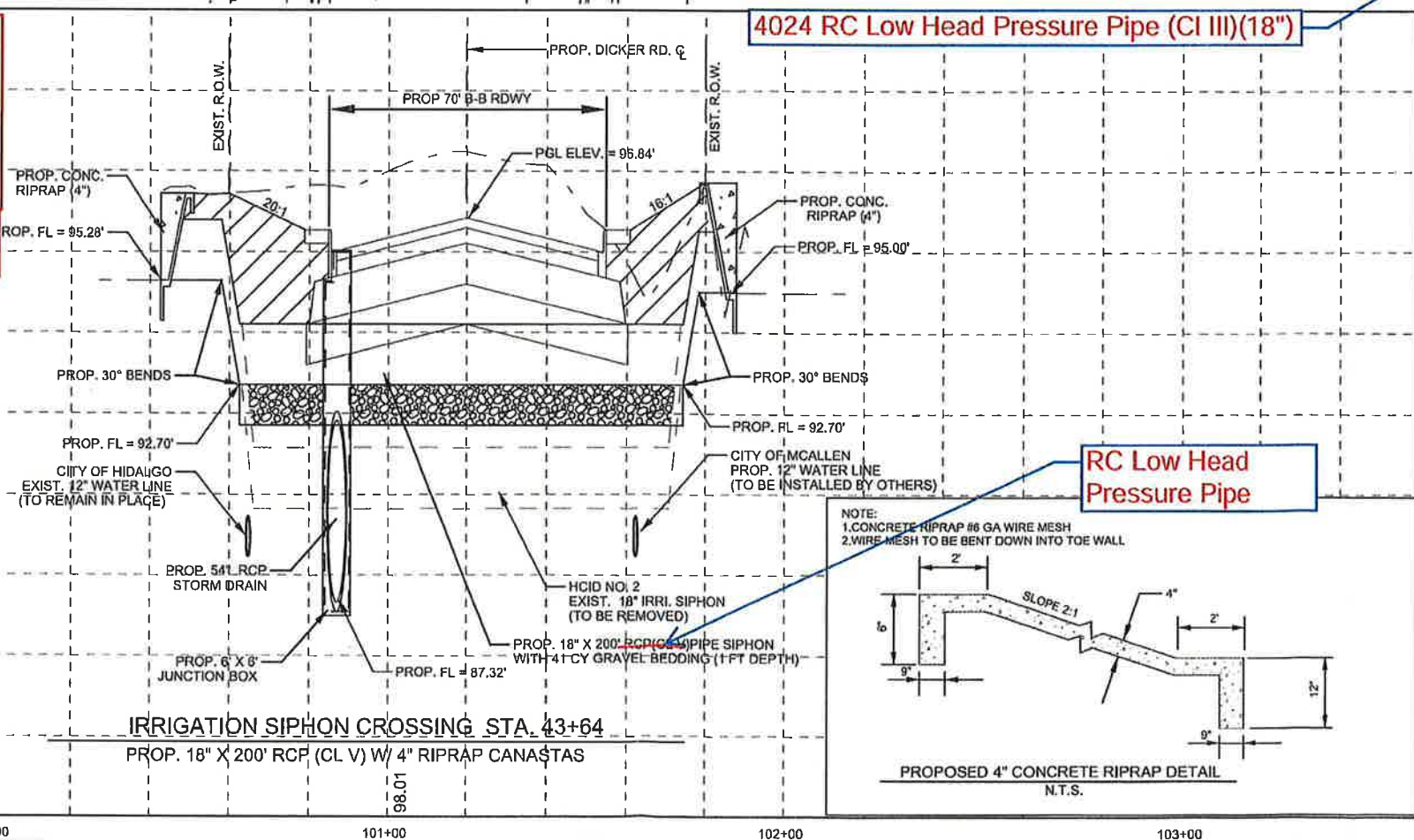
ITEM	DESCRIPTION	UNIT	QUANTITY
400	STRUCT EXCAVATION	CY	148
400	STRUCT EXCAVATION (SPL)	CY	41
400	CEM STABIL BACKFILL	CY	38
402	TRENCH EXCAV. PROTECTION	LF	206
432	CONC RIPRAP (4")	CY	2
484	RC PIPE (CL V) 18 IN	LF	200
496	REMOVE STR (PIPE)	LF	200

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.

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(Irr)
 Add Standard Sheet - Concrete Piling

CO #4 - Reduce Structural Excavation(SPL)



STATE OF TEXAS
 ROBERTO FINA CARRAL
 116857
 LICENSED PROFESSIONAL ENGINEER

ROBERTO FINA CARRAL DATE 4/26/2018

The County of Hidalgo
 Pct 2

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 Texas Department of Transportation

TEDSI INFRASTRUCTURE GROUP
 Consulting Engineers
 1301 E. Expressway 83
 Mission, Texas 78572
 (956) 424-7898

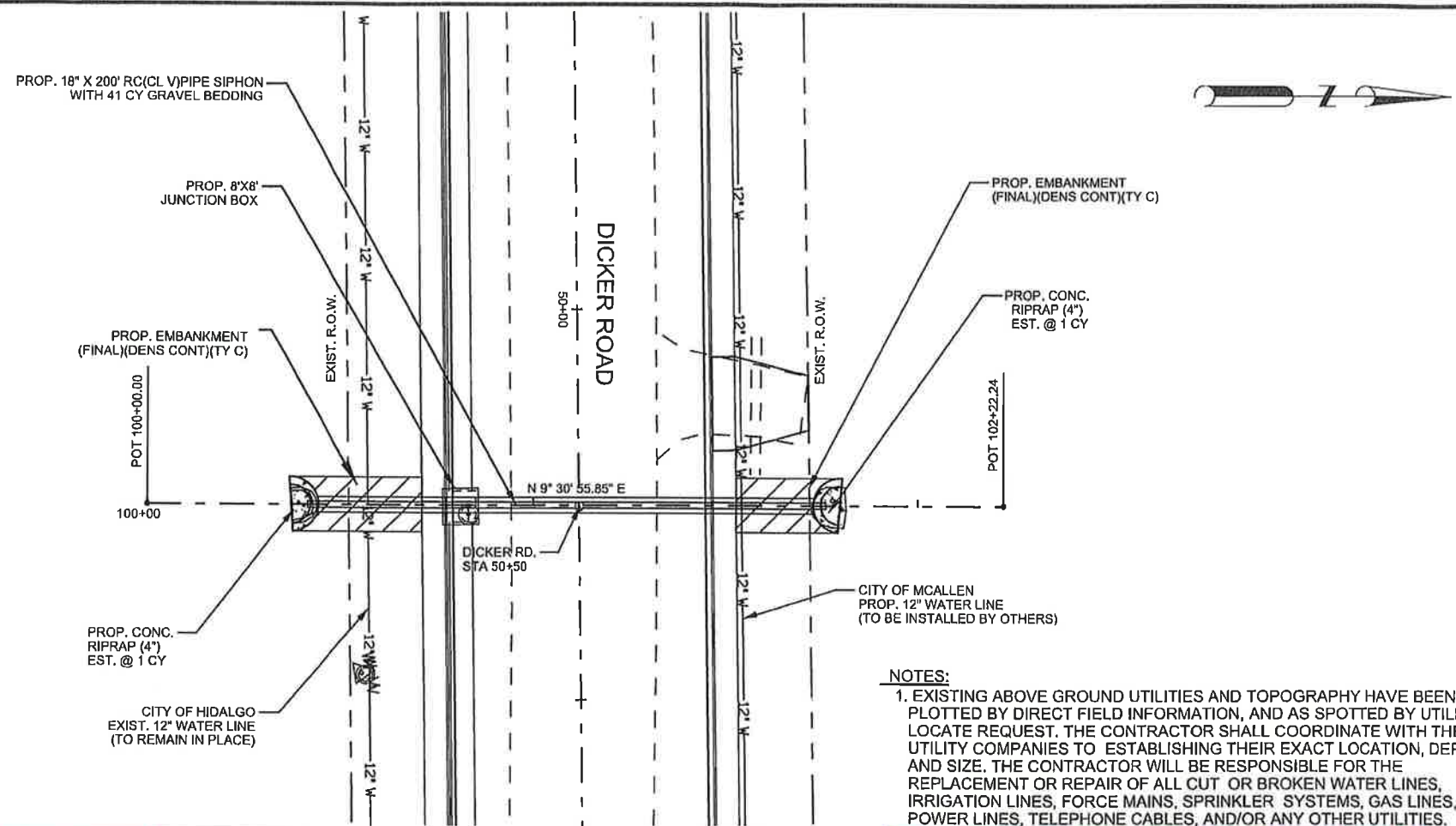
DICKER ROAD IRRIGATION LAYOUT 1
 HCWID No 3
 STA 43+64

SCALE:
 HOR: 1" = 40'
 VER: 1" = 4'

SHEET 1 OF 5

FED. RD. DIV. NO.	CONT.	SECT.	JOB	HIGHWAY	
06	0921	02	312	DICKER ROAD	
STATE	DIST.	COUNTY	PCT.	CITY	SHEET NO.
TEXAS	PHR	HIDALGO	No 2	HIDALGO	167a

DATE: 4/26/2018 1:35:39 PM
 FILE: Dickerr-Irr 1.dgn



- LEGEND:**
- ⊗ NON-PAY, SUBSIDIARY TO PERTINENT BID ITEMS.
 - ★ TO BE REMOVED UNDER ITEM 496. INCLUDES PAYMENT FOR REMOVAL OF ALL APPURTENANCES.
 - ⊙ NON-PAY ITEM, FOR CONTRACTORS' INFORMATION ONLY.
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 6. SEE DRAINAGE DETAILS SHEET FOR IRRIGATION PIPE BEDDING AND BACKFILL DETAIL.

SHEET SUMMARY

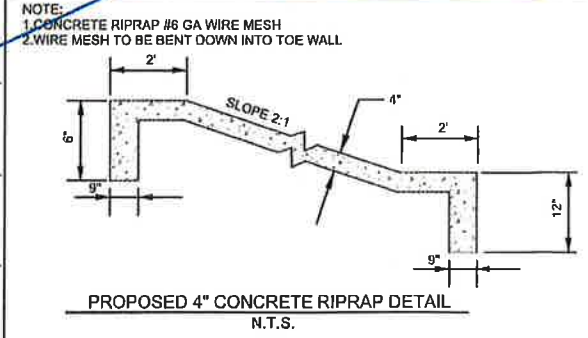
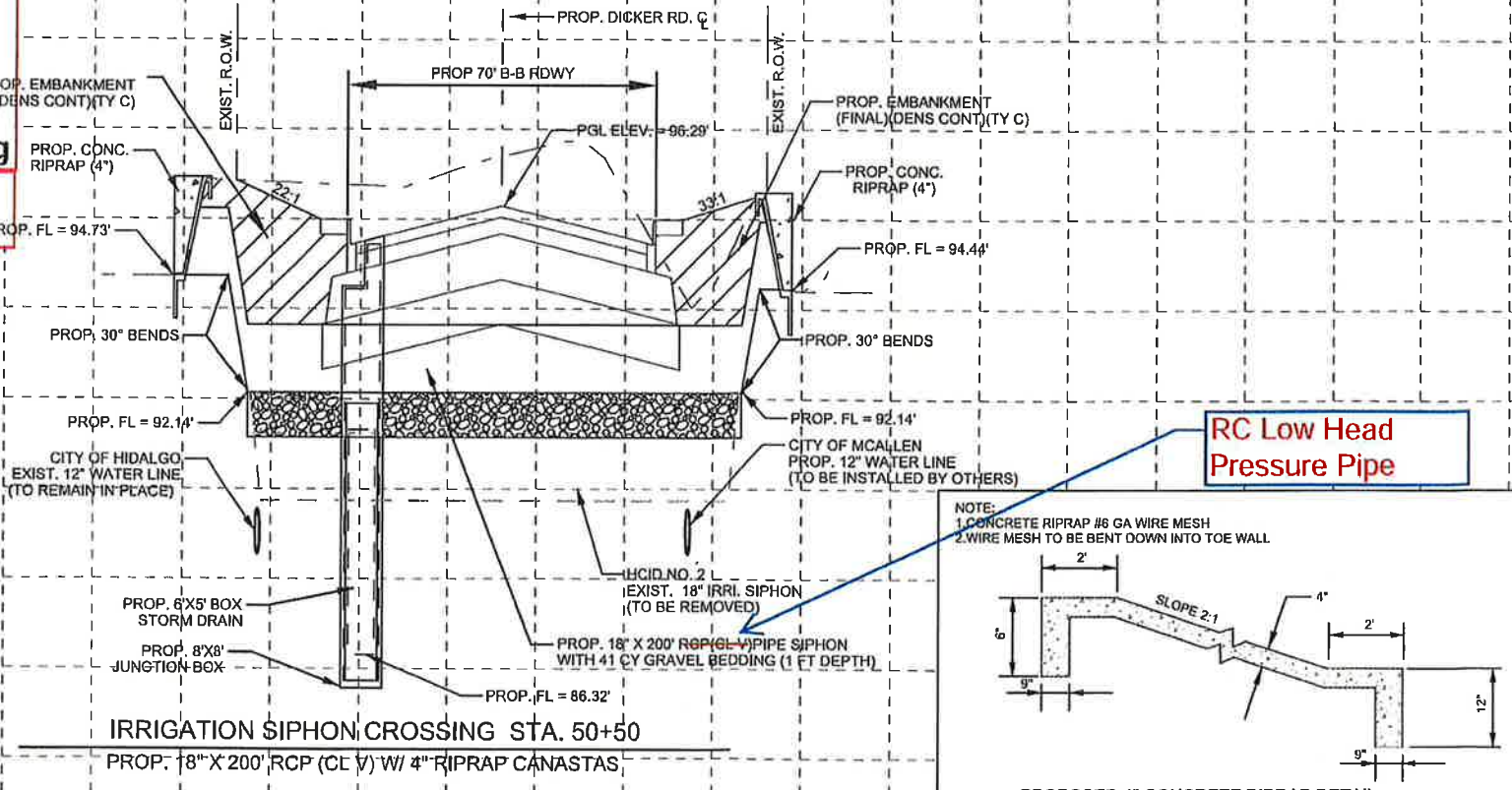
ITEM	DESCRIPTION	UNIT	QUANTITY
400	STRUCT EXCAVATION	CY	148
400	STRUCT EXCAVATION (SPL)	CY	44
400	CEM STABIL BACKFILL	CY	38
402	TRENCH EXCAV. PROTECTION	LF	206
432	CONC RIPRAP (4")	CY	2
464	RC PIPE (CL V) 18 IN	LF	200
496	REMOVE STR (PIPE)	LF	200

- 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.

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 (lr)
 Add Standard Sheet - Concrete Piling
CO #4 - Reduce Structural Excavation(SPL)



4024 RC Low Head Pressure Pipe (CI III)(18")



The County of Hidalgo
Pct 2



TEDSI INFRASTRUCTURE GROUP
 Consulting Engineers
 1201 E. Expressway 83
 Mission, Texas 78372
 (956) 424-7898

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

SCALE:
 HOR: 1"=40'
 VER: 1"=4'

SHEET 2 OF 5

FED. HD. DIV. NO.	CONT.	SECT.	JOB	HIGHWAY	
06	0921	02	312	DICKER ROAD	
STATE	DIST.	COUNTY	PCT.	CITY	SHEET NO.
TEXAS	PHR	HIDALGO	No 2	HIDALGO	168a

DATE: 4/26/2018 1:35:40 PM
 FILE: Dicker-1r 2.dgn

Client:
Hidalgo County Precinct No. 2
300 W Hall Acres, Ste. G
Pharr, TX 78577

Project:
2302 (C-19-016-08-13)
Dicker Road Project
SP 115 (23rd Street) to FM 2061 (Jackson Rd)
Hidalgo, TX

General Information

Sample Date:	01/07/2020	MF Sample Number:	128
Sample From:	Native Soil	Material Type:	Subgrade
Sampled By:	Rick Garcia	Location Details:	Dicker Rd E. of 23rd St on S. Side Sta. 22+50

Test Results

Proctor Curve:

Moisture Content (%)	Dry Density (Lbs./Cu.Ft.)
13.47	93.72
17.21	99.50
21.91	100.74
25.99	94.36

Moisture Content (%)	Dry Density (Lbs./Cu.Ft.)
13.47	93.72
17.21	99.50
21.91	100.74
25.99	94.36

Optimum Moisture:	20.3
Maximum Dry Density:	101.2
Specific Gravity of Sample:	2.65
Test Completed Date:	01/10/2020

Atterberg Limits

Liquid Limit (%):	44.9
Plastic Limit (%):	18.4
Plastic Index:	27

Sieve Analysis

Sieve Size	% Passing
2 1/2"	100

Test Results: The above test result meets the technical specifications.

Test Method (As Applicable): Tex 114-E / ASTM D-698 Method-B ;
Tex 104-E, Tex 105-E, Tex 106-E / ASTM D4318 ;
Tex 110-E / ASTM C-136

Respectfully Submitted by B2Z Engineering

Hector Cantu, Corporate Laboratory Manager

- 3.4.2. **Density Control.** Compact each layer to the required density using equipment complying with Item 210, "Rolling." Determine the maximum lift thickness based on the ability of the compacting operation and equipment to meet the required density. Do not exceed layer thickness of 16 in. loose or 12 in. compacted material unless otherwise approved. Maintain a level layer to ensure uniform compaction.

The Engineer will use [Tex-114-E](#) to determine the maximum dry density (D_a) and optimum moisture content (W_{opt}). Meet the requirements for field density and moisture content in Table 2 unless otherwise shown on the plans.

Table 2
Field Density Control Requirements

Description	Density	Moisture Content
	Tex-115-E	
PI ≤ 15	≥ 98% D_a	
15 < PI ≤ 35	≥ 98% D_a and ≤ 102% D_a	≥ W_{opt}
PI > 35	≥ 95% D_a and ≤ 100% D_a	≥ W_{opt}

Each layer is subject to testing by the Engineer for density and moisture content. During compaction, the moisture content of the soil should not exceed the value shown on the moisture-density curve, above optimum, required to achieve:

- 98% dry density for soils with a PI greater than 15 but less than or equal to 35 or
- 95% dry density for soils with PI greater than 35.

Remove small areas of the layer to allow for density tests as required. Replace the removed material and recompact at no additional expense to the Department. Proof-roll in accordance with Item 216, "Proof Rolling," when shown on the plans or as directed. Correct soft spots as directed.

- 3.5. **Maintenance of Moisture and Reworking.** Maintain the density and moisture content once all requirements in Table 2 are met. Maintain the moisture content no lower than 4% below optimum for soils with a PI greater than 15. Rework the material to obtain the specified compaction when the material loses the required stability, density, moisture, or finish. Alter the compaction methods and procedures on subsequent work to obtain specified density as directed.
- 3.6. **Acceptance Criteria.**
- 3.6.1. **Grade Tolerances.**
- 3.6.1.1. **Staged Construction.** Grade to within 0.1 ft. in the cross-section and 0.1 ft. in 16 ft. measured longitudinally.
- 3.6.1.2. **Turnkey Construction.** Grade to within 1/2 in. in the cross-section and 1/2 in. in 16 ft. measured longitudinally.
- 3.6.2. **Gradation Tolerances.** Ensure no more than 1 of the 5 most recent gradation tests is outside the specified limits on any individual sieve by more than 5% when gradation requirements are shown on the plans.
- 3.6.3. **Density Tolerances.** Ensure no more than 1 of the 5 most recent density tests for compaction work is outside the specified density limits, and no test is outside the limits by more than 3 pcf.
- 3.6.4. **Plasticity Tolerances.** Ensure no more than 1 of the 5 most recent PI tests for material is outside the specified limit by more than 2 points.

4. MEASUREMENT

Embankment will be measured by the cubic yard. Measurement will be further defined for payment as follows:



Soil Nuclear Gauge

B2Z Report No. 2020DR-4S
Report Date: 1/15/2020
Test Method: ASTM D 6938

Mission Office
 900 S Stewart Rd, Ste. 2
 Mission, TX 78572
 Phone: 956-585-3773

Client:
 Hidalgo County Precinct No. 2
 300 W Hall Acres, Ste. G
 Pharr, TX 78577

Project:
 2302 (C-19-016-08-13)
 Dicker Road Project
 SP 115 (23rd Street) to FM 2061 (Jackson Rd)
 Hidalgo, TX

Test Results

Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Remark
6	2	1/14/20	Trench Backfill		CL/CH	20.3	101.2	17.5	101.3	12	100	98	DP/MP
7	4	1/14/20	Trench Backfill		CL/CH	20.3	101.2	17.3	102.4	12	101	98	DP/MP
8	5	1/14/20	Trench Backfill		CL/CH	20.3	101.2	17.3	101.4	12	100	98	DP/MP
9		1/14/20	Trench Backfill		CL/CH	20.3	101.2	17.3	102.6	12	101	98	DP/MP
10		1/14/20	Trench Backfill		CL/CH	20.3	101.2	19.1	100.3	12	99	98	DP/MP
11		1/14/20	Trench Backfill		CL/CH	20.3	101.2	18.9	99.3	12	98	98	DP/MP
12		1/14/20	Trench Backfill		CL/CH	20.3	101.2	19.1	100.7	12	100	98	DP/MP
13		1/14/20	Trench Backfill		CL/CH	20.3	101.2	19.1	100.7	12	100	98	DP/MP

Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
6	Utility Trench Backfill: 30" RCP Drainage Pipe Sta. 22+50 2nd Lift			Instrotek / 3500 Xplorer / 3727 /	Kino Gonzalez
7	Utility Trench Backfill: 24" RCP for Drainage Sta. 20+30 (Rt) 3rd Lift			Instrotek / 3500 Xplorer / 3727 /	Kino Gonzalez
8	Utility Trench Backfill: 24" RCP for Drainage Sta. 18+75 2nd Lift			Instrotek / 3500 Xplorer / 3727 /	Kino Gonzalez
9	Utility Trench Backfill: 24" RCP Drainage Pipe Sta. 18+00 (RT) 1st Lift			Instrotek / 3500 Xplorer / 3727 /	Kino Gonzalez
10	Utility Trench Backfill: 24" RCP Drainage Pipe Sta. 17+25 2nd Lift			Instrotek / 3500 Xplorer / 3727 /	Kino Gonzalez
11	Utility Trench Backfill: 18" RCP Drainage Pipe Sta. 20+60 1st Lift			Instrotek / 3500 Xplorer / 3727 /	Kino Gonzalez
12	Utility Trench Backfill: 18" RCP Drainage Pipe Sta. 20+60 3rd Lift			Instrotek / 3500 Xplorer / 3727 /	Kino Gonzalez
13	Utility Trench Backfill: 18" RCP Drainage Pipe Sta. 16+00 2nd Lift			Instrotek / 3500 Xplorer / 3727 /	Kino Gonzalez

This report applies only to the standards or procedures indicated and to the sample(s) tested and/or observed and are not necessarily indicative of the qualities of apparently identical or similar products or procedures, nor do they represent an ongoing quality assurance program unless so noted. These reports are for the exclusive use of the addressed client and are not to be reproduced without written permission.



Soil Nuclear Gauge

B2Z Report No. 2020DR-4S

Report Date: 1/15/2020

Test Method: ASTM D 6938

Mission Office
900 S Stewart Rd, Ste. 2
Mission, TX 78572
Phone: 956-585-3773

Client:

Hidalgo County Precinct No. 2
300 W Hall Acres, Ste. G
Pharr, TX 78577

Project:

2302 (C-19-016-08-13)
Dicker Road Project
SP 115 (23rd Street) to FM 2061 (Jackson Rd)
Hidalgo, TX

Remarks	Comments
DP/MP: Density Pass / Moisture Pass	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.



Soil Nuclear Gauge

B2Z Report No. 2020DR-4S

Report Date: 1/15/2020

Test Method: ASTM D 6938

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Hidalgo, TX

Test Results													
Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Remark
14		1/14/20	Trench Backfill		CL/CH	20.3	101.2	19.0	101.3	12	100	98	DP/MP
15		1/14/20	Trench Backfill		CL/CH	20.3	101.2	19.4	99.9	12	99	98	DP/MP
16		1/14/20	Trench Backfill		CL/CH	20.3	101.2	17.1	99.2	12	98	98	DP/MP
17		1/14/20	Trench Backfill		CL/CH	20.3	101.2	18.3	99.5	12	98	98	DP/MP
Test Information													
Test #	Test Location						Elevation	Reference	Gauge			Field Technician	
14	Utility Trench Backfill: 18" RCP Drainage Pipe Sta. 17+70 Lateral 1st Lift								Instrotek / 3500 Xplorer / 3727 /			Kino Gonzalez	
15	Utility Trench Backfill: 18" RCP Drainage Pipe Sta. 17+70 2nd Lift								Instrotek / 3500 Xplorer / 3727 /			Kino Gonzalez	
16	Utility Trench Backfill: 24" RCP Drainage Pipe Sta. 15+50 (RT) 2nd Lift								Instrotek / 3500 Xplorer / 3727 /			Kino Gonzalez	
17	Utility Trench Backfill: 18" RCP Drainage Pipe Sta. 17+70 Lateral 3r Lift								Instrotek / 3500 Xplorer / 3727 /			Kino Gonzalez	
Remarks						Comments							
DP/MP: Density Pass / Moisture Pass						Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.							

Respectfully Submitted by B2Z Engineering

Hector Cantu, Corporate Laboratory Manager



Bid Code	Description	\$ Price	UOM	Plan Qty.	Total Dollars
400-6010	Structural Excavation (Special)	\$55.00	CY	6,281.00	\$345,455.00

Description	Plan Qty.	Length	Width	Depth	CY's	33%	Rev. Qty.	CY/FT
RCB (4' X 2')	63.00	63.00	9.00	0.50	10.50	3.47	13.97	0.22
RCB (4' X 3')	339.00	339.00	9.00	0.50	56.50	18.65	75.15	0.22
RCB (6' X 5')	2,452.00	2,452.00	11.00	0.50	499.48	164.83	664.31	0.27
RCB (6' X 6')	1,512.00	1,512.00	11.00	0.50	308.00	101.64	409.64	0.27
RCB (7' X 5')	126.00	126.00	12.00	1.00	56.00	18.48	74.48	0.59
RCB (9' X 7')	472.00	236.00	24.00	1.00	209.78	69.23	279.00	1.18
RCP (CL III) (18 IN)	0.00 by (CO #2)		0.00	0.00	0.00	0.00	0.00	
RCP (CL V) (18 IN)	0.00 by (CO #2)		0.00	0.00	0.00	0.00	0.00	
RCP (CL III) (18 IN) (SPL)	1,865.00 (CO #2)	1,865.00	4.04	0.50	139.53	46.04	185.57	0.10
RCP (CL III) (24 IN) (SPL)	1,639.00 (CO #2)	1,639.00	4.50	0.50	136.58	45.07	181.66	0.11
RCP (CL III) (30 IN) (SPL)	1,931.00	1,931.00	5.67	0.50	202.76	66.91	269.66	0.14
RCP (CL III) (36 IN) (SPL)	250.00	250.00	6.00	0.50	27.78	9.17	36.94	0.15
RCP (CL III) (42 IN) (SPL)	1,037.00	1,037.00	8.50	0.50	163.23	53.87	217.10	0.21
RCP (CL III) (48 IN) (SPL)	520.00	520.00	9.00	0.50	86.67	28.60	115.27	0.22
RCP (CL III) (54 IN) (SPL)	1,651.00	1,651.00	9.50	0.50	290.45	95.85	386.30	0.23
RCP (CL III) (60 IN) (SPL)	915.00	915.00	10.00	0.50	169.44	55.92	225.36	0.25
RCLHPP (CL III) (18 IN)	400.00	400.00	4.04	0.50	29.93	9.88	39.80	0.10

Subtotal = 2,386.63 787.59 3,174.21

Plan Quantity(PQ)	6281	
Revised Plan Quantity(PQ)	3174	Bedding Only
Quantity Deduction	3107	