

## CONSTRUCTION CONTRACT CHANGE ORDER NUMBER: 8

1. CONTRACTOR: Texas Cordia, LLC
2. Change Order Work Limits: Sta. 123+00 to Sta. 508+00
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.

Additional riprap required to eliminate erosion caused by rising waters during heavy rainfall events. Two occasions, ditch waters have rose above the top of the boxes, inundating the pedestrian tunnels. The Cage Blvd and Moore Road crossing lost 100 Ft of approach and exposed the storm sewer. Anticipating the same erosion at Ridge, the traffic rail foundation and asphalt trail approach/departures will be replaced with riprap, and added riprap for incomplete canasta & bare slopes.

CCSJ: 0921-02-409

Project: Regional Linear PII

Highway: Hike & Bike

County: Hidalgo

District: Pharr

Contract Number: C-18-199-02-12

5. New or revised plan sheet(s) are attached and numbered: 8a, 58a, 59a, 68a, 69a, 72a, 78a, 79a

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><b>The following information must be provided</b></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>\$200,718.00</u></p>
<p>THE CONTRACTOR Date <u>11/26/19</u></p> <p>By <u><i>[Signature]</i></u></p> <p>Typed/Printed Name <u>Yara M. Corbit, PE</u></p> <p>Typed/Printed Title <u>CEO</u></p>	<p><b>For TxDOT use only:</b></p> <p>Days participating: _____</p> <p>Amount participating: _____</p> <p>Signature _____ Date _____</p> <p>Name/Title _____</p>

**RECOMMENDED FOR EXECUTION:**

*[Signature]* 12-2-19  
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:



**CONSTRUCTION CONTRACT CHANGE ORDER NUMBER: 8**

Estimated Cost:

CCS: 0921-02-409

Paid by Invoice? (  Yes  No )

**TABLE A: Force Account Work and Materials Placed into Stock**

LABOR	HOURLY RATE	EQUIPMENT	HOURLY RATE

**TABLE B: Contract Items**

ITEM	DESCRIPTION	UNIT	UNIT PRICE	ORIGINAL + PREVIOUSLY REVISED		NEW		OVERRUN/ UNDERRUN
				QUANTITY	ITEM COST	QUANTITY	ITEM COST	
341-6039	D-GR HMA TY-D SAC-B PG64-22	Ton	86.00	1,254.00	107,844.00	1,181.00	101,566.00	- 6,278.00
420-6066	CL C CONC (RAIL FOUNDATION)	CY	295.00	267.00	78,765.00	0.00	0.00	- 78,765.00
432-6001	RIPRAP (CONC) (4 IN)	CY	250.00	1,110.00	277,500.00	1,387.50	346,875.00	69,375.00
432-6001	RIPRAP (CONC) (4 IN)	CY	304.00	0.00	0.00	709.00	215,536.00	215,536.00
104-6025	REMOVING CONC(WINGWALL)	EA	850.00	1.00	850.00	2.00	1,700.00	850.00
<b>TOTALS</b>					464,959.00	665,677.00	200,718.00	



## Change Order #8

### Regional Linear Park Phase II (Hike & Bike Trail)

Owner: Hidalgo County Precinct #2

To: Texas Cordia Construction, LLC  
3149-A Center Pointe Drive  
Edinburg, Texas 78539

From: B2Z Engineering

Project: RLPPII  
Contract: C-18-199-02-12  
CSJ: 0921-02-409  
Limits: Hall Acres to Ridge Road

Change Order #8 has been approved to make the following Contract Changes:

#### Description:

Change Order #8, Additional riprap required to eliminate erosion caused by rising waters due to heavy rainfall events. There have been two occasions where ditch waters have risen above the top of the boxes, inundating the drainage and pedestrian boxes. The Cage Blvd. crossing exhibited minimal damage, but the Moore Rd. crossing lost 50Ft of approach, base material, embankment and exposed the storm sewer. Anticipating similar events, the additional riprap will provide the protection necessary to eliminate the erosional damages at each tunnel location. The trail asphalt approach and departures to each tunnel will be replaced with 4" riprap. The canasta areas above the top of the tunnels were not addressed and will be covered with riprap to eliminate erosion. The proposed rail foundations for the PR11 rail are designed for concrete barrier rail and not the PR11 pedestrian rail. It can be replaced with a 1'x2' riprap foundation to serve the same purpose. The additional riprap has been presented, reviewed and accepted by the County to eliminate erosion caused by rising waters due to heavy rainfall events.

#### Purpose:

The Hidalgo County Precinct #2 Office was notified of the erosional problems seen during heavy rainfall events and they approved the additional riprap to eliminate the damages to the trail, slopes and embankment. This change order allows the County to pay for the additional riprap quantity that will be funded through this project. Riprap is a contract item that does not require a new price.

The change order has been signed by the contractor and AE. Additional funding is involved that will amend the current Advanced Funding Agreement. The County has been notified of the Change Order and agrees to modify the AFA to reflect the changes in CO #8. The changes do not impact the original environmental assessment, do not impact TDLR elements, do not impact wetlands, or waters of the US, archeological, historical or social issues; endangered species, or any other regulated areas within the project will not see changes. The changes do not cause disturbances larger than 1 acre or require an CSN or NOI.

B2z has reviewed the change order with Precinct #2 for the breakdown of items and payment, according to the governing Specification 1L-9L. See TxDOT Change Order Form 2146-L for a description of item and cost changes.

<b>CHANGE IN CONTRACT PRICE:</b>	<b>CHANGE IN CONTRACT TIME:</b>
Original Contract Price <u>\$3,409,415.00</u>	Original Contract Time <u>400 working Days</u>
Previous Change Orders <u>\$156,349.78</u>	Previous Change Orders <u>0 Working Days</u>

Contract Price prior to this Change Order <u>\$3,565,764.78</u>	Contract Time prior to this Change Order <u>400 Working Days</u>
Net <b>increase</b> of the Change Order <u>\$200,718.00</u>	Net <b>increase</b> of the Change Order <u>0 Working Days</u>
Contract Price with all approved Change Orders <u>\$3,766,482.78</u>	Contract Time with all approved Change Orders <u>400 Working Days</u>

K:\County\HDA\Project 2\H&B & B&B Project Linear Park Project\Microstation Data SEC2\01 GENERAL\01 Title Sheet\H&B-2.TITLE.dgn

8/23/2018

**REGIONAL LINEAR PARK (SEC 2) 0921-02-409**

PROJ. NO. \_\_\_\_\_  
 COUNTY: HIDALGO  
 DATE ACCEPTED: \_\_\_\_\_  
 LETTING DATE: OCT. 2018

**INDEX DATA**  
 SHEET ON PAGE 2

**FINAL PLAN DATA :**

FINAL CONTRACT PRICE: \_\_\_\_\_  
 CONTRACTORS NAME: \_\_\_\_\_  
 CONTRACTORS ADDRESS: \_\_\_\_\_  
 LETTING DATE: \_\_\_\_\_  
 DATE WORK BEGAN: \_\_\_\_\_  
 DATE WORK COMPLETED: \_\_\_\_\_  
 DATE OF ACCEPTANCE: \_\_\_\_\_

**CHANGE ORDERS AND SUPPLEMENTAL AGREEMENTS:**

ALL CONSTRUCTION WORK WAS PERFORMED IN ACCORDANCE WITH THE PLANS, SPECIFICATIONS AND CONTRACT. ALL PROPOSED CONSTRUCTION WAS COMPLETED UNLESS OTHERWISE NOTED.

HIDALGO COUNTY PRECINCT NO. 2: \_\_\_\_\_ DATE: \_\_\_\_\_

REGISTERED ACCESSIBILITY SPECIALIST (RAS) INSPECTION REQUIRED.

TDLR No. EABPRJ \_\_\_\_\_

SPECIFICATIONS ADOPTED BY THE TEXAS DEPARTMENT OF TRANSPORTATION ON NOVEMBER 1, 2014 AND SPECIFICATION ITEMS LISTED AND DATED AS FOLLOWS, SHALL GOVERN ON THIS PROJECT: REQUIRED CONTRACT PROVISIONS FOR ALL FEDERAL-AID CONSTRUCTION CONTRACTS (FORM FHWA 1273, MAY 2012).

# HIDALGO COUNTY PRECINCT NO.2

## PLANS OF PROPOSED HIKE AND BIKE TRAIL

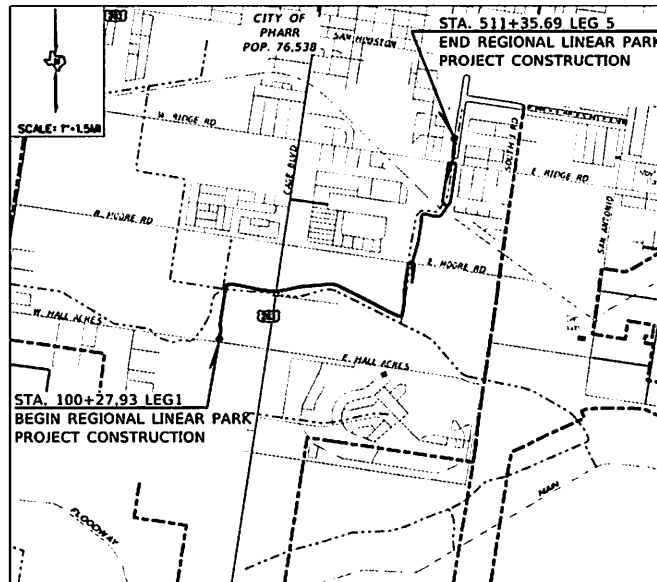
FEDERAL AID PROJECT: STP 2019 (086) TP  
 HIDALGO COUNTY

### REGIONAL LINEAR PARK (SECTION 2)

CSI: 0921-02-409  
 NET LENGTH OF PROJECT = 13,945.80 FT. = 2.641 MI.  
 (TRACK LANE MILES)

LIMITS: HALL ACRES RD. TO RIDGE RD.

THE PROJECT WILL CONSIST OF A SHARED-USE TRAIL AND WILL INCLUDE:  
 GRADING, ASPHALT, SIGNING, PAVEMENT MARKINGS, LIGHTING, PEDESTRIAN TUNNELS,  
 & PEDESTRIAN BRIDGES.



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**PROJECT DATA**

DESIGN SPEED:  
 RLPP: 12 MPH

EQUATIONS:  
 STA. 173+76.00 LEG 1 • STA. 205+53.30 LEG 2  
 STA. 200+18.44 LEG 2 • STA. 300+00.00 LEG 3  
 STA. 324+75.12 LEG 3 • STA. 400+00.00 LEG 4  
 STA. 336+60.88 LEG 3 • STA. 412+48.06 LEG 4  
 STA. 406+70.01 LEG 4 • STA. 500+00.00 LEG 5

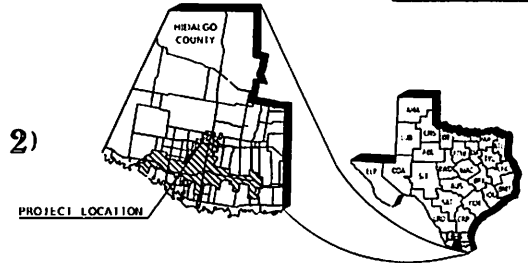
EXCEPTIONS:  
 NONE

RAILROAD CROSSINGS:  
 NONE



RECOMMENDED FOR LETTING: _____	APPROVED FOR LETTING: _____
DISTRICT ENGINEER	DIRECTOR, TRAFFIC OPERATIONS DIVISION
SUBMITTED FOR LETTING: _____	APPROVED FOR LETTING: _____
LG PROJECT COORDINATOR	DIRECTOR, DESIGN DIVISION

FEDERAL AID PROJECT NO.		STP 2019 (086) TP	
STATE:	STATE	COUNTY:	HIDALGO
TEXAS	TEXAS		
COUNTY:	PRECINCT:	F.A.M.:	FEDERAL AID:
0921	02	409	RLPP



LOCAL ENTITIES	
HIDALGO COUNTY DRAINAGE DISTRICT NO. 1 CONCURRENCE:	DATE: _____
NAME: _____	TITLE: _____
CITY OF PHARR CONCURRENCE:	DATE: _____
NAME: _____	TITLE: _____
HIDALGO COUNTY IRRIG. DIST. NO. 2 CONCURRENCE:	DATE: _____
NAME: _____	TITLE: _____

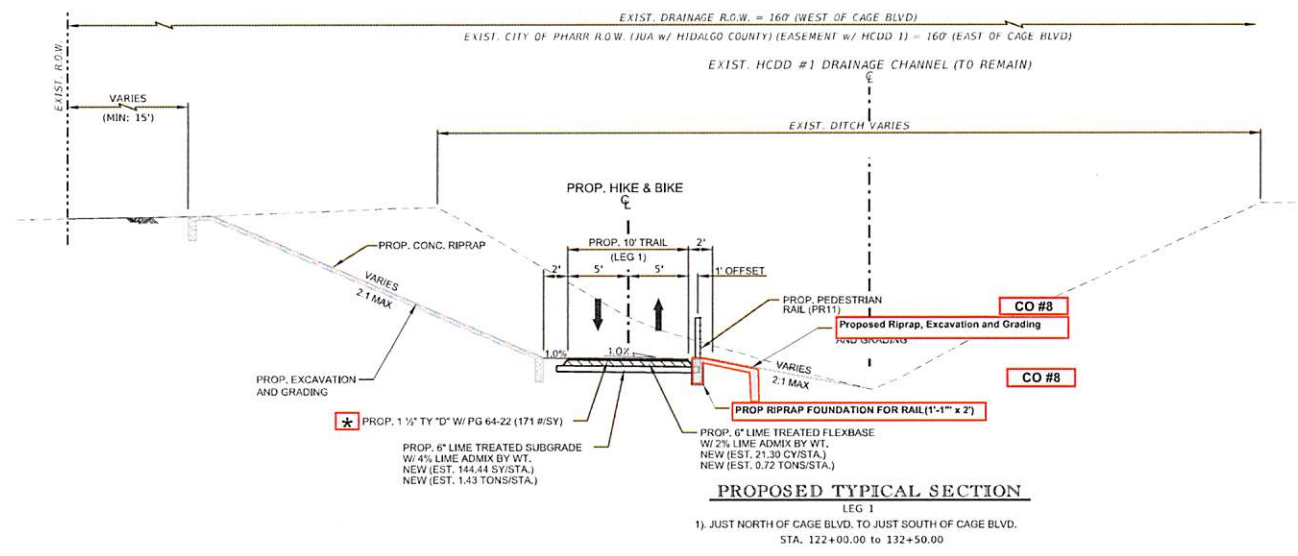
	<b>L &amp; G Engineering</b> Highway / Civil Structural / Bridge Environmental Firm No. : F-4105	2100 W. Expressway 83 Mesquite, TX 78050 Phone : (956) 565-0813 Fax : (956) 565-0018
	900 S. Stewart Rd., Ste. 10 Mission, TX, 78572 Phone : (956) 565-1909 Fax : (956) 565-1927	
NAME: _____	DATE: _____	TITLE: _____

APPROVED FOR LETTING: _____
PRECINCT NO.2

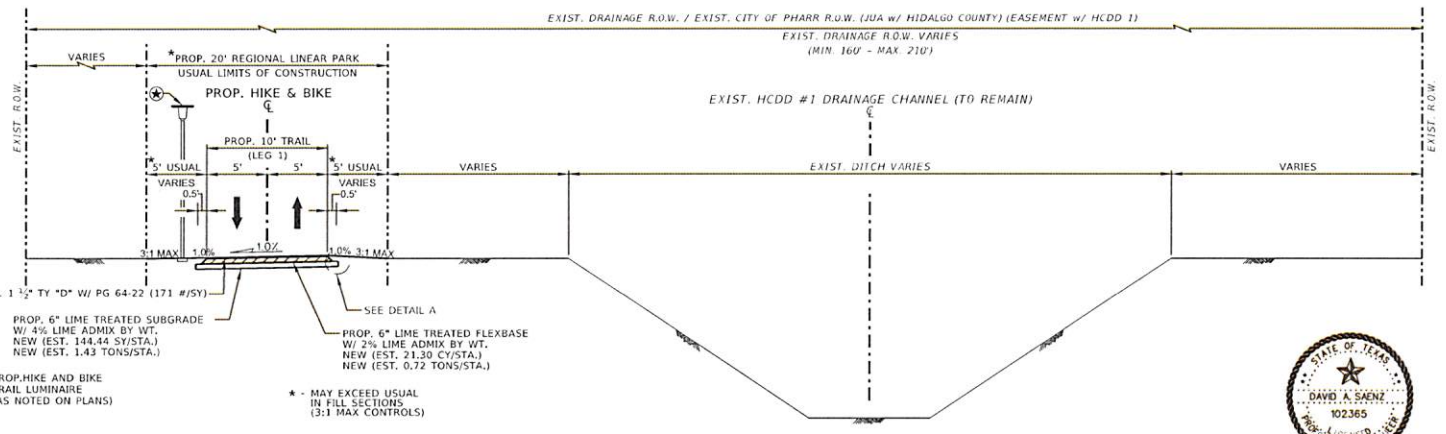
SEE SHEET 1 FOR GENERAL NOTES

**CO #8**  
 Additional riprap to protect the asphalt trail, base and embankment from rising water that cause erosion during inclement weather.

**CO #8**  
 \* Note: Replace 1 1/2" ACP approach and departures with 4" Concrete Riprap. Connect approach to slopes and TRF.  
 Station below Riprap:  
 1) Sta 126+35 to 126+85  
 2) Sta 127+66 to 129+16  
 3) Sta 304+56 to 304+06  
 4) Sta 305+80 to 306+30  
 5) Sta 504+65 to 505+15  
 6) Sta 506+80 to 507+30



**PROPOSED TYPICAL SECTION**  
 LEG 1  
 1). JUST NORTH OF CAGE BLVD. TO JUST SOUTH OF CAGE BLVD.  
 STA. 122+00.00 TO 132+50.00



**PROPOSED TYPICAL SECTION**  
 LEG 1  
 1). JUST SOUTH OF CAGE BLVD. TO MOORE RD.  
 STA. 132+50.00 TO 173+76.00



**Texas Department of Transportation**

**HIDALGO COUNTY**  
 PRECINCT 2  
 COMMISSIONER BEVIN CANTY

**L & G Engineering**  
 Highway / Civil  
 Structural / Bridge  
 Environmental  
 Firm No. : F-4105

2100 W. Expressway 83  
 Mercedes, TX, 75310  
 Phone : (956) 565-5813  
 Fax : (956) 565-9018

900 S. Stewart Rd., Ste. 10  
 Mission, TX, 78572  
 Phone : (956) 565-1608  
 Fax : (956) 565-1927

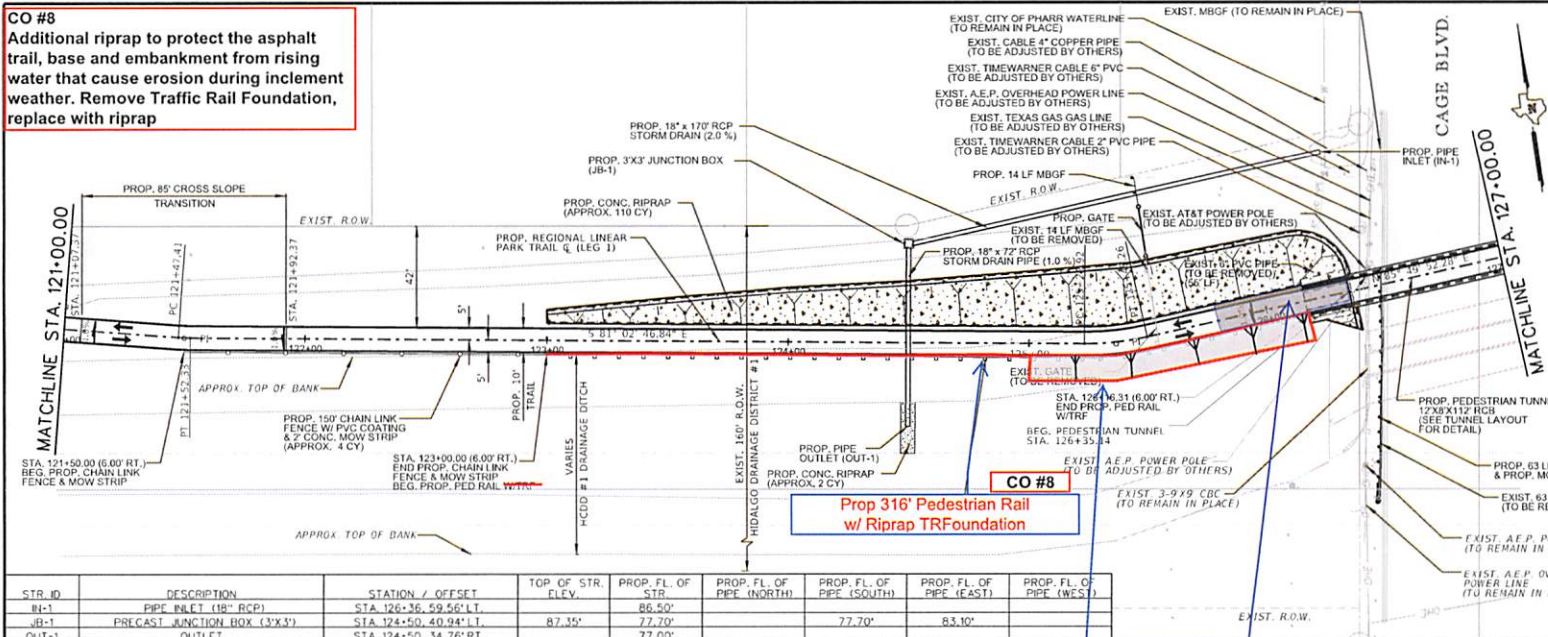
**REGIONAL LINEAR PARK PROJECT**  
 PROPOSED Sht 8a  
 SECTIONS

SHEET 2 OF 5

DR. NO.	10-20	STATE	PROJECT NO.	1021
OK DR. DATE	6	TEXAS	STP 2019 (056) TP	5
DR. BY				
DR. DATE				
FR.				
PK. TO.	PHR	HIDALGO	0921 02 409	RLPP

8/23/2018  
 N:\ESD\Projects\County\W\Project 2\W\1 - Bike Project\Linear Park Project\Information\Drawings\SECTION GENERAL CO# 8 - Typical Section\W\1\_2\_PRL\_TYP.dwg

**CO #8**  
Additional riprap to protect the asphalt trail, base and embankment from rising water that cause erosion during inclement weather. Remove Traffic Rail Foundation, replace with riprap

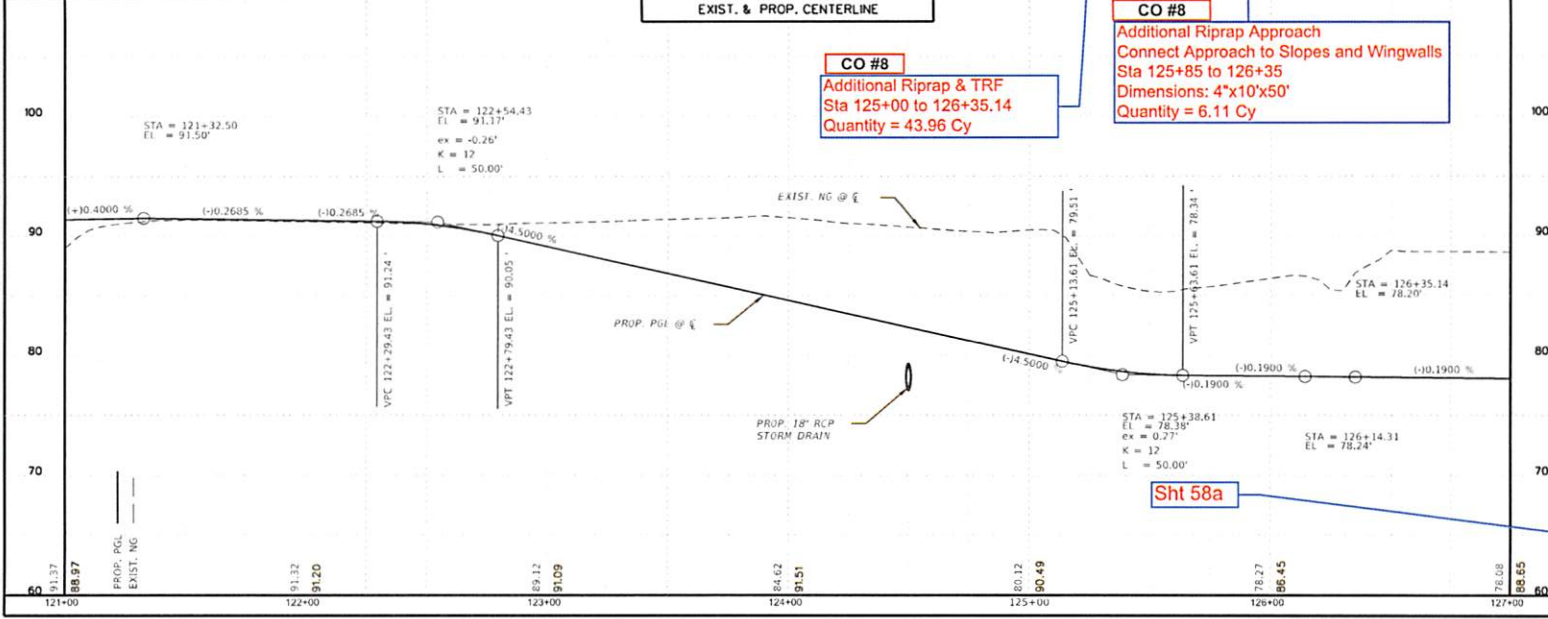


SHEET SUMMARY			
ITEM	DESCRIPTION	UNIT	QUANTITY
400	SAND BACKFILL	CY	15
402	TRENCH EXCAVATION PROTECTION	LF	242
422	CONC. TRAFFIC RAIL FOUNDATION	LF	444
432	RRIPRAP CONC. (4")	CY	112
432	RRIPRAP CONC. (4") (MOW STRIP)	CY	6
450	RIP. TRF (17'x18')	LF	316
464	18" RCP (5PL) ICL. #1	LF	242
465	JCT. BOX (COMPL. JUB) (3'x3')	EA	1
496	REMOVE STR. (RIP)	LF	55
540	INSTALL STR. MBGF	LF	77
540	INSTALL STR. DAT	EA	1
542	REMOVE STR. MBGF	LF	77
542	REMOVE STR. DAT	EA	1
544	REMOVE STR. SGT	EA	1
544	INSTALL STR. SGT	EA	1
550	GATE (REMOVE)	EA	1
550	GATE (INSTALL DOUBLE) (RIP)	EA	1
550	CHAIN LINK FENCE (INSTALL) (RIP)	LF	150

**LEGEND:**  
 → DIRECTION OF TRAFFIC  
 ⊗ TO BE REMOVED UNDER ITEM 496 INCLUDES PAYMENT FOR REMOVAL OF ALL APPURTENANCES

**NOTES:**  
 1. SEE ALIGNMENT DATA SHEET FOR PROP. CENTERLINE DATA.  
 2. SEE SURVEY DATA SHEET FOR BM STATIONS, OFFSET, ELEV., ETC.

STR. ID	DESCRIPTION	STATION / OFFSET	TOP OF STR. ELEV.	PROP. FL. OF STR.	PROP. FL. OF PIPE (NORTH)	PROP. FL. OF PIPE (SOUTH)	PROP. FL. OF PIPE (EAST)	PROP. FL. OF PIPE (WEST)
IN-1	PIPE INLET (18" RCP)	STA. 126+36.59.56'L.T.	86.50'	86.50'				
JB-1	PRECAST JUNCTION BOX (3'x3')	STA. 124+50.40.94'L.T.	87.35'	77.70'		77.70'	83.10'	
OUT-1	OUTLET	STA. 124+50.34.76'BT	77.00'	77.00'				



**CO #8**  
Prop 316' Pedestrian Rail w/ Riprap TRFoundation

**CO #8**  
Additional Riprap Approach Connect Approach to Slopes and Wingwalls Sta 125+85 to 126+35 Dimensions: 4"x10"x50' Quantity = 6.11 Cy

**CO #8**  
Additional Riprap & TRF Sta 125+00 to 126+35.14 Quantity = 43.96 Cy



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**Texas Department of Transportation**  
**Hidalgo County Precinct 2**  
**L & G Engineering**  
 Highway / Civil Structural / Bridge Environmental Firm No. : F-4105  
 2100 W. Expressway 83 Mercedes, TX, 78570 Phone : (956) 585-8813 Fax : (956) 585-9018  
 900 S. Stewart Rd., Ste. 10 Mission, TX, 78572 Phone : (956) 585-1909 Fax : (956) 585-1927  
**REGIONAL LINEAR PARK PROJECT**  
**PLAN & PROFILE (LEG 1)**  
**STA. 121+00 TO STA. 127+00**  
 SCALE: HORIZ. 1"=50' VERT. 1"=7.0'  
 SHEET 5 of 13  

DATE	2019	STATE	TEXAS	PROJECT NO.	2019-1060-TP
DATE	08/23/18	COUNTY	HIDALGO	SCALE	AS SHOWN
DATE	08/23/18	PRECINCT	0921	DATE	08/23/18
DATE	08/23/18	PROJECT	02	DATE	08/23/18
DATE	08/23/18	PROJECT	409	DATE	08/23/18

8/23/2018 K:\Counties\HDP\Project 2\Plan & Profile\Linear Park Project\Information\Drawings\LEG-03\_Hidalgo\_Plan\_Profile\_P1-LEG-05.dwg

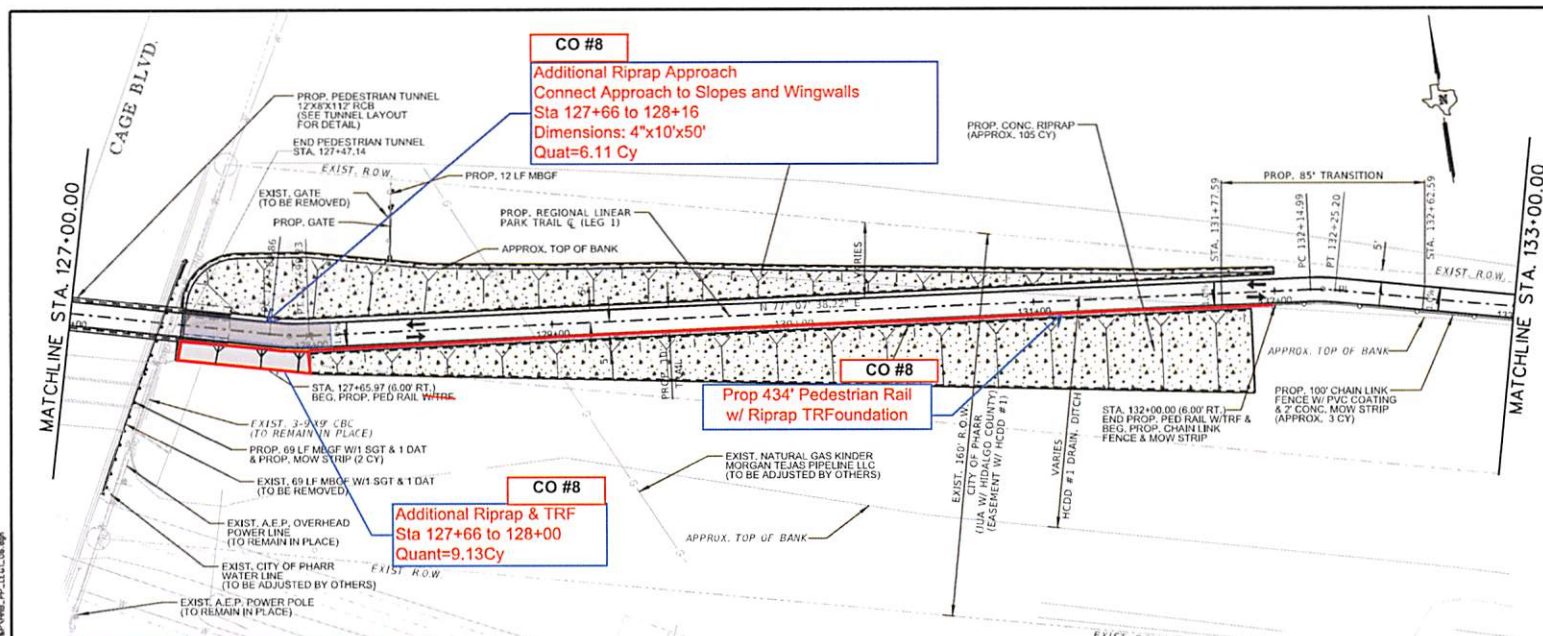
**SHEET SUMMARY**

ITEM	DESCRIPTION	UNIT	QUANTITY
432	CONC. RIPRAP	CY	225
432	RIPRAP CONC. (4") (MOW STRIP)	CY	5
450	RAIL (TY. PRIS)	LF	434
540	INSTALL STR MBGF	LF	81
540	INSTALL STR DAT	EA	1
542	REMOVE STR MBGF	LF	69
542	REMOVE STR DAT	EA	1
544	REMOVE STR SGT	EA	1
544	INSTALL STR SGT	EA	1
550	GATE (REMOVE)	EA	1
550	GATE (INSTALL DOUBLER 60"x18")	EA	1
550	CHAIN LINK FENCE (INSTALLING)	LF	100

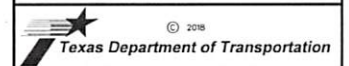
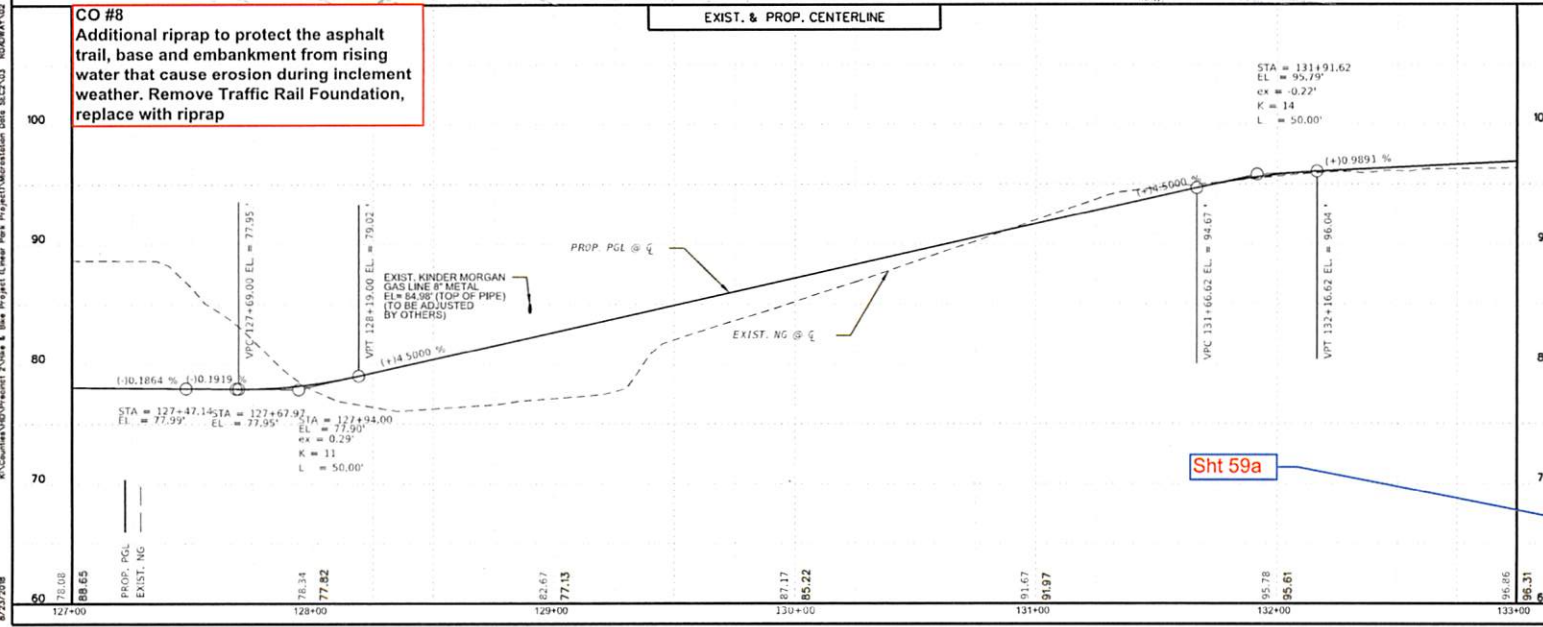
**LEGEND:**

- DIRECTION OF TRAFFIC
- ⊗ TO BE REMOVED UNDER ITEM 496 INCLUDES PAYMENT FOR REMOVAL OF ALL APPURTENANCES

- NOTES:**
- SEE ALIGNMENT DATA SHEET FOR PROP. CENTERLINE DATA
  - SEE SURVEY DATA SHEET FOR BM STATIONS, OFFSET, ELEV., ETC.



**CO #8**  
Additional riprap to protect the asphalt trail, base and embankment from rising water that cause erosion during inclement weather. Remove Traffic Rail Foundation, replace with riprap



**L & G Engineering**  
Highway / Civil  
Structural / Bridge  
Environmental  
Firm No. : F-4105

2100 W. Expressway 83  
Mercedes, TX, 78352  
Phone : (956) 585-8813  
Fax : (956) 585-9018

800 S. Stewart Rd., Ste. 10  
Mission, TX, 78572  
Phone : (956) 585-1909  
Fax : (956) 585-1927

**REGIONAL LINEAR PARK PROJECT  
PLAN & PROFILE (LEG 1)  
STA. 127+00 TO STA. 133+00**

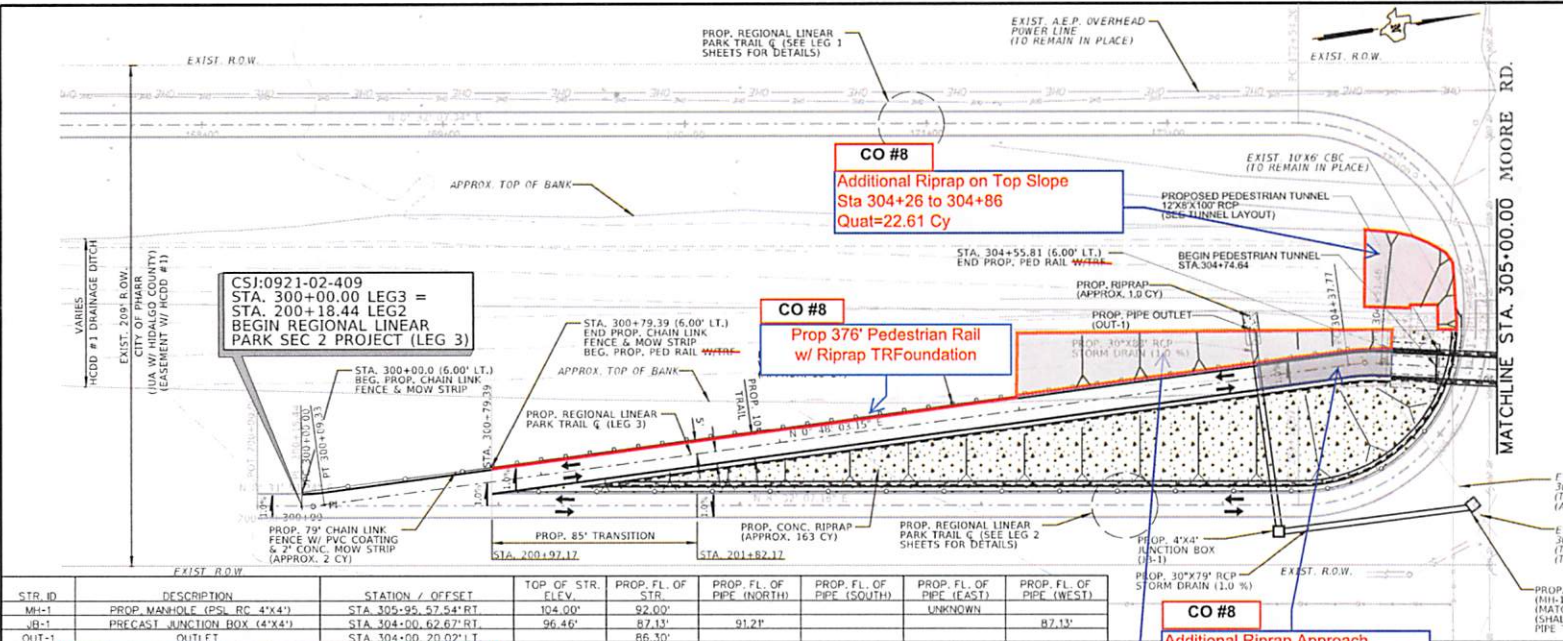
SCALE:  
HOR. 1"=50'  
VERT. 1"=10'

SHEET 6 of 13

DATE	BY	CHK'D	APP'D
08/23/18	DAVID A. SAENZ		
STATE	COUNTY	PROJECT	DATE
TX	HIDALGO	0921	02
TR	PHR	HIDALGO	0921
TR	PHR	HIDALGO	0921

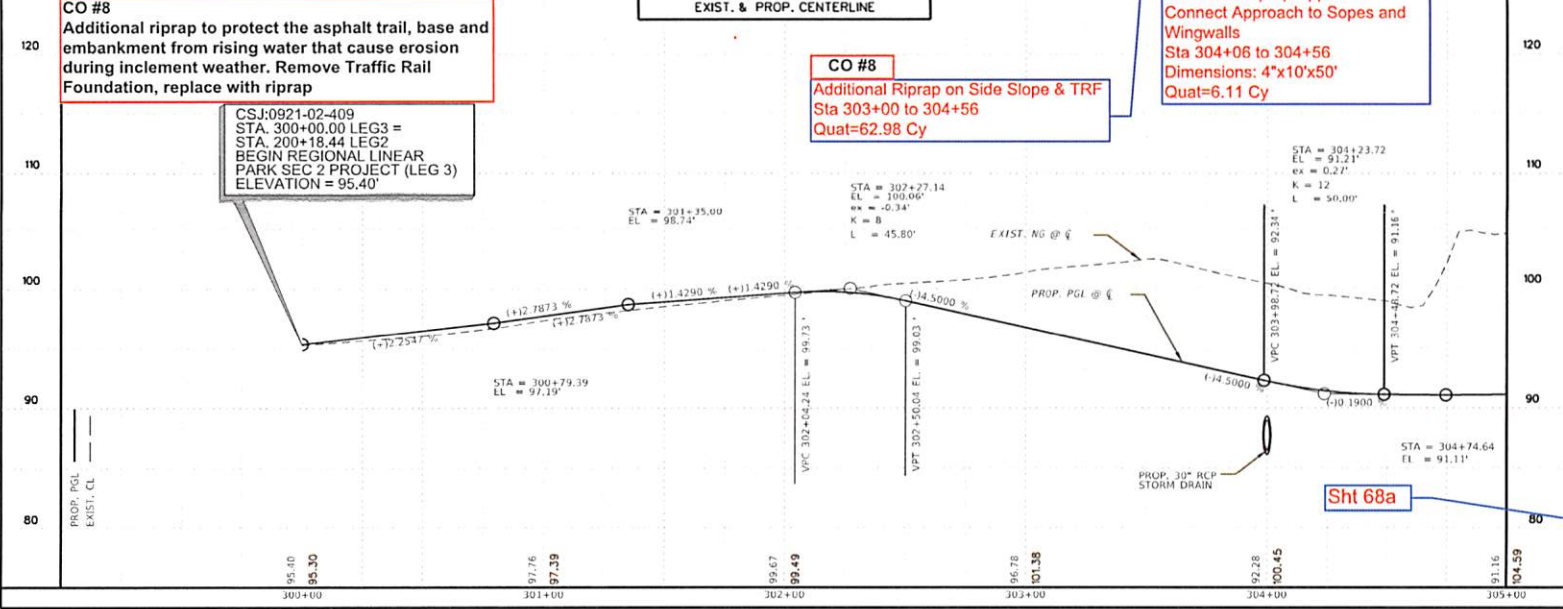
8/23/2018 K:\Civilians\NMD\Project 2\Map & Blue Project\Linear Plan Project\Microstation Data ECCT-03 RODRIGUEZ\_RIPRAP.PLT LEGAL.DWG

8/23/2018 C:\Counties\HID\Project 2\Notes & Bids\Project\Clearing\Plan\Project\Information\Station Data\SEC2\03 - ROADWAY\02 - PLAN\01 - LEG3.DWG



SHEET SUMMARY			
ITEM	DESCRIPTION	UNIT	QUANTITY
400	SAND BACKFILL	CY	18
402	TRENCH EXCAVATION PROTECTION	LF	162
403	4" CONC. HWY. RAIL FOUNDATION	CY	23
432	RIPRAP CONC. (4")	CY	184
432	RIPRAP CONC. (4") (MOW STRIP)	CY	2
450	RAM. (1Y. PRH)	LF	376
464	30" RCP (SP1) 10L. W.	LF	162
465	JCT. BOX (COMPL.) (P. 20) 4'x4'	E.A.	1
465	MH (COMPL.) (PSL. RCI) 4'x4'	E.A.	1
496	REMOVE STR. (PRE)	LF	80
550	CHAIN LINK FENCE (INSTALL/RE)	LF	79

- LEGEND:**
- DIRECTION OF TRAFFIC
  - ★ TO BE REMOVED UNDER ITEM 496 INCLUDES PAYMENT FOR REMOVAL OF ALL APPURTENANCES
- NOTES:**
- SEE ALIGNMENT DATA SHEET FOR PROP. CENTERLINE DATA.
  - SEE SURVEY DATA SHEET FOR BM STATIONS, OFFSET, ELEV. ETC.



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**Texas Department of Transportation**

**HIDALGO COUNTY**  
PRECINCT 2  
Continuously Reincorporated

**L & G Engineering**  
Highway / Civil  
Structural / Bridge  
Environmental  
Firm No. : F-4105

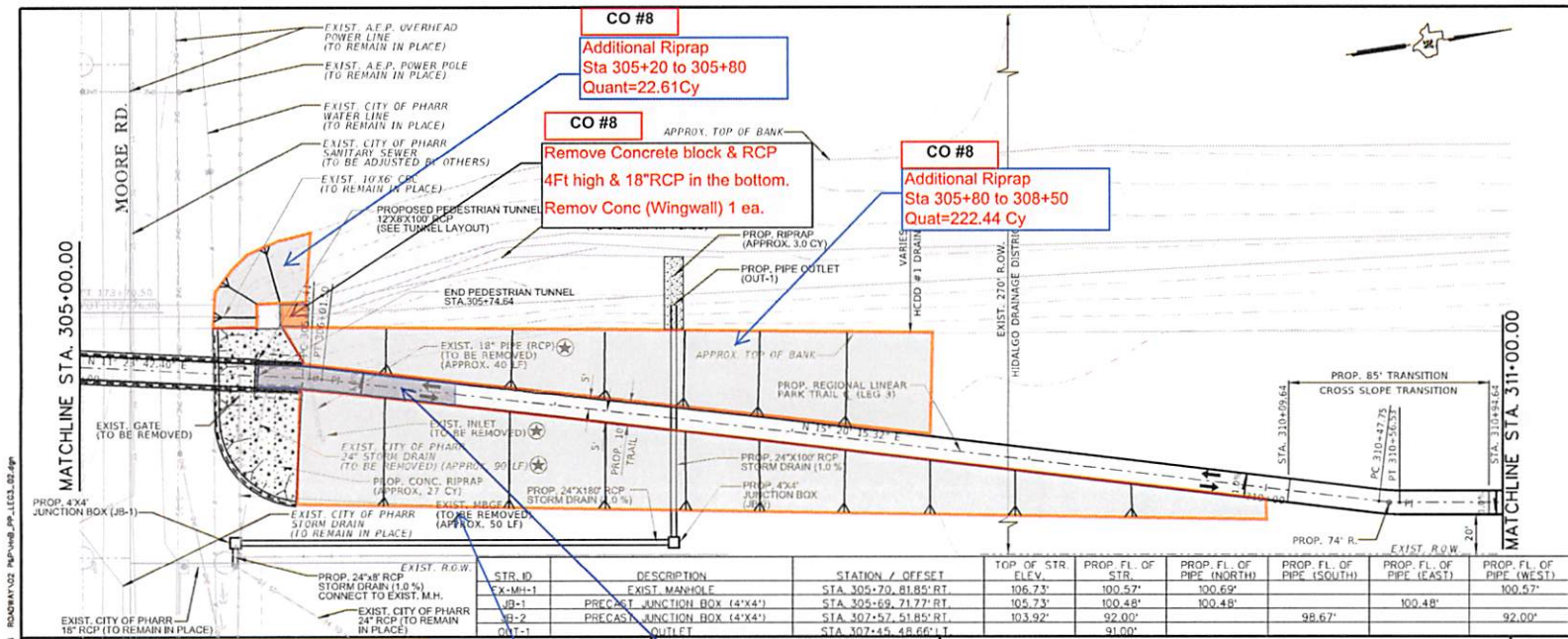
2100 W. Expressway 83  
Marcelus, TX 78510  
Phone : (956) 585-5823  
Fax : (956) 585-9018

903 S. Stewart Rd., Ste. 10  
Mission, TX 78572  
Phone : (956) 585-1909  
Fax : (956) 585-1927

**REGIONAL LINEAR PARK PROJECT**  
PLAN & PROFILE (LEG 3)  
STA. 300+00 TO STA 305+00

SCALE:  $\frac{1"=10'}$  SHEET 1 of 7

DATE	BY	CHKD	APP'D	NO.
08/23/18	DS	MS	MS	102365
PROJECT	COUNTY	PRECINCT	SHEET	NO.
PLAN & PROFILE (LEG 3)	HIDALGO	0921	02	409



SHEET SUMMARY		
ITEM	DESCRIPTION	UNIT QUANTITY
400	SAND BACKFILL	CY 23
402	TRENCH EXCAVATION PROTECTION	LF 288
432	RIPRAP CONC. (4")	CY 30
464	74" RCP (SP. LICK. B)	LF 288
465	JCT. BOX (COMPL.) (P.8) (4'x4')	EA 2
496	REMOVE STR (P.8)	LF 130
496	REMOVE STR (P.8) (T)	EA 1
542	REMOVE MISC	LF 50
550	GATE (REMOVE)	EA 1

**LEGEND:**

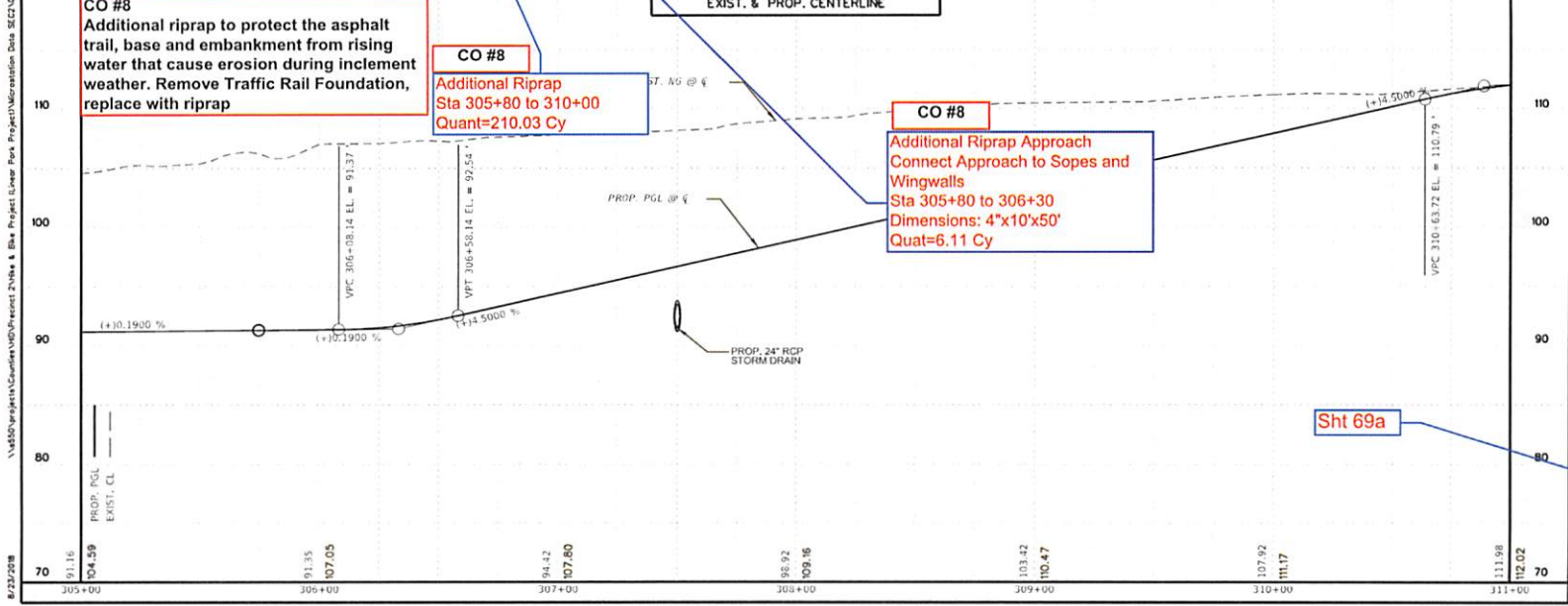
→ DIRECTION OF TRAFFIC


★ TO BE REMOVED UNDER ITEM 496 INCLUDES PAYMENT FOR REMOVAL OF ALL APPURTENANCES

**NOTES:**

- SEE ALIGNMENT DATA SHEET FOR PROP. CENTERLINE DATA
- SEE SURVEY DATA SHEET FOR BM STATIONS, OFFSET, ELEV. ETC.

STR. ID	DESCRIPTION	STATION / OFFSET	TOP OF STR. ELEV.	PROP. FL. OF STR.	PROP. FL. OF PIPE (NORTH)	PROP. FL. OF PIPE (SOUTH)	PROP. FL. OF PIPE (EAST)	PROP. FL. OF PIPE (WEST)
EX-MH-1	EXIST. MANHOLE	STA. 305+70.8185' RT	106.73'	100.57'	100.69'		100.57'	
JB-1	PRECAST JUNCTION BOX (4'x4')	STA. 305+69.7177' RT	105.73'	100.48'	100.48'		100.48'	
JB-2	PRECAST JUNCTION BOX (4'x4')	STA. 307+57.5185' RT	103.92'	92.00'		98.67'	92.00'	
OUT-1	OUTLET	STA. 307+45.4866' LT		91.00'				





08/23/18

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**Texas Department of Transportation**

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**Hidalgo County**  
PRECINCT 2  
Continued From Sheet

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**L & G Engineering**  
Highway / Civil  
Structural / Bridge  
Environmental  
Firm No. : F-4105

2100 W. Expressway 83  
Mercedes, TX 78570  
Phone : (956) 585-9813  
Fax : (956) 585-9018

900 S. Stewart Rd., Ste. 10  
Mission, TX 78572  
Phone : (956) 585-1909  
Fax : (956) 585-1927

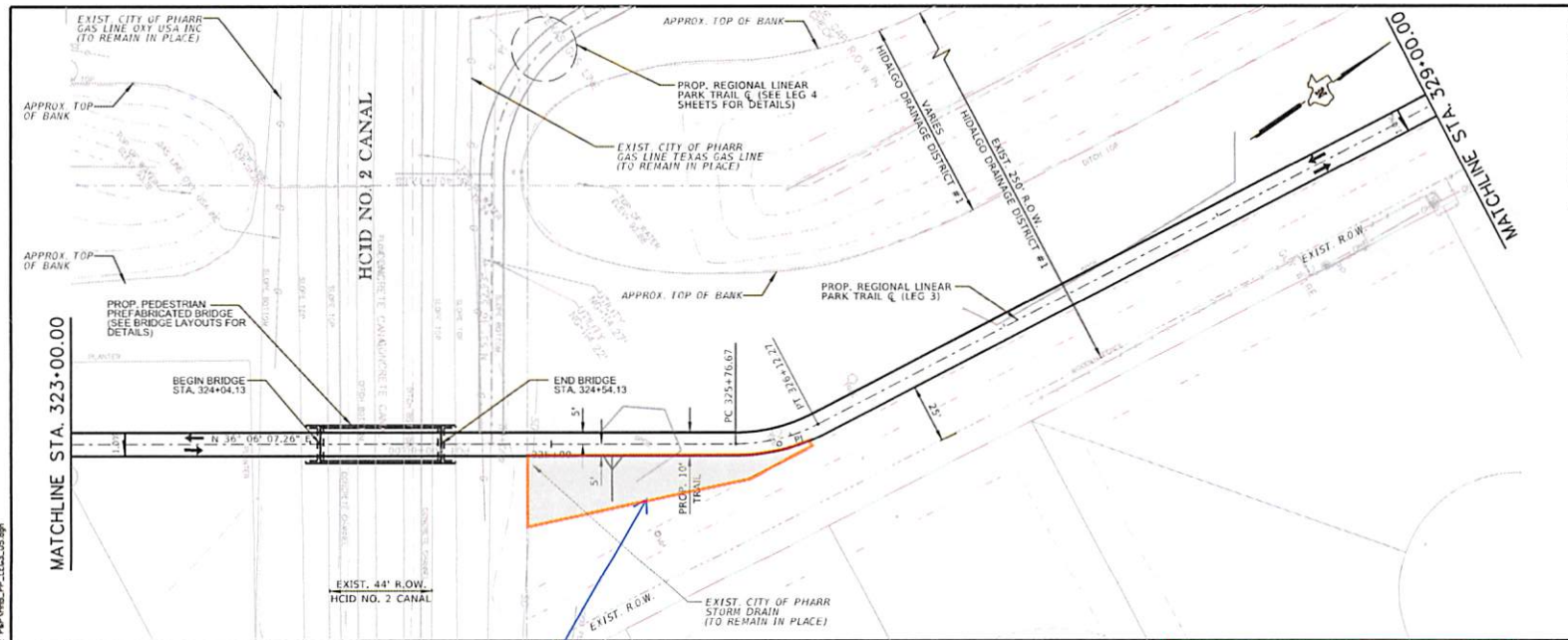
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**REGIONAL LINEAR PARK PROJECT**  
PLAN & PROFILE (LEG 3)  
STA. 305+00 TO STA 311+00

SHEET 2 of 7

DATE	BY	CHECKED	DATE
08/23/18	DAVID A. SAENZ		
PROJECT	STATE	PROJECT NO.	DATE
REGIONAL LINEAR PARK PROJECT	TEXAS	STP 2019 (066) TP	08/23/18
DISTRICT	COUNTY	DISTRICT	PROJECT
PRECINCT 2	HIDALGO	0921	02
DATE	BY	CHECKED	DATE
08/23/18	DAVID A. SAENZ		

#12/2/2018 K:\Country\CD\Project\2104a & Baa\Project\Clear\Plan\Project\Manufacturing Data\EGC2103\_B000\WY102\_Riprap\PR\_11231\_05.dwg



SHEET SUMMARY			
ITEM	DESCRIPTION	UNIT	QUANTITY

- LEGEND:**
- DIRECTION OF TRAFFIC
  - ⊗ TO BE REMOVED UNDER ITEM 496 INCLUDES PAYMENT FOR REMOVAL OF ALL APPURTENANCES

- NOTES:**
1. SEE ALIGNMENT DATA SHEET FOR PROP. CENTERLINE DATA
  2. SEE SURVEY DATA SHEET FOR BM STATIONS, OFFSET, ELEV. ETC.



**L&G Engineering** 2190 W. Expressway 81  
 Highway / Civil Maricopa, TX 78010  
 Structural / Bridge Phone: (956) 565-9913  
 Environmental Mission, TX 78572  
 Firm No.: F-4105 Phone: (956) 585-1909  
 Fax: (956) 585-1927

**REGIONAL LINEAR PARK PROJECT**  
**PLAN & PROFILE (LEG 3)**  
**STA. 323+00 TO STA 329+00**

SCALE: HORIZ = 50'  
 VERT = 10'

SHEET 5 of 7

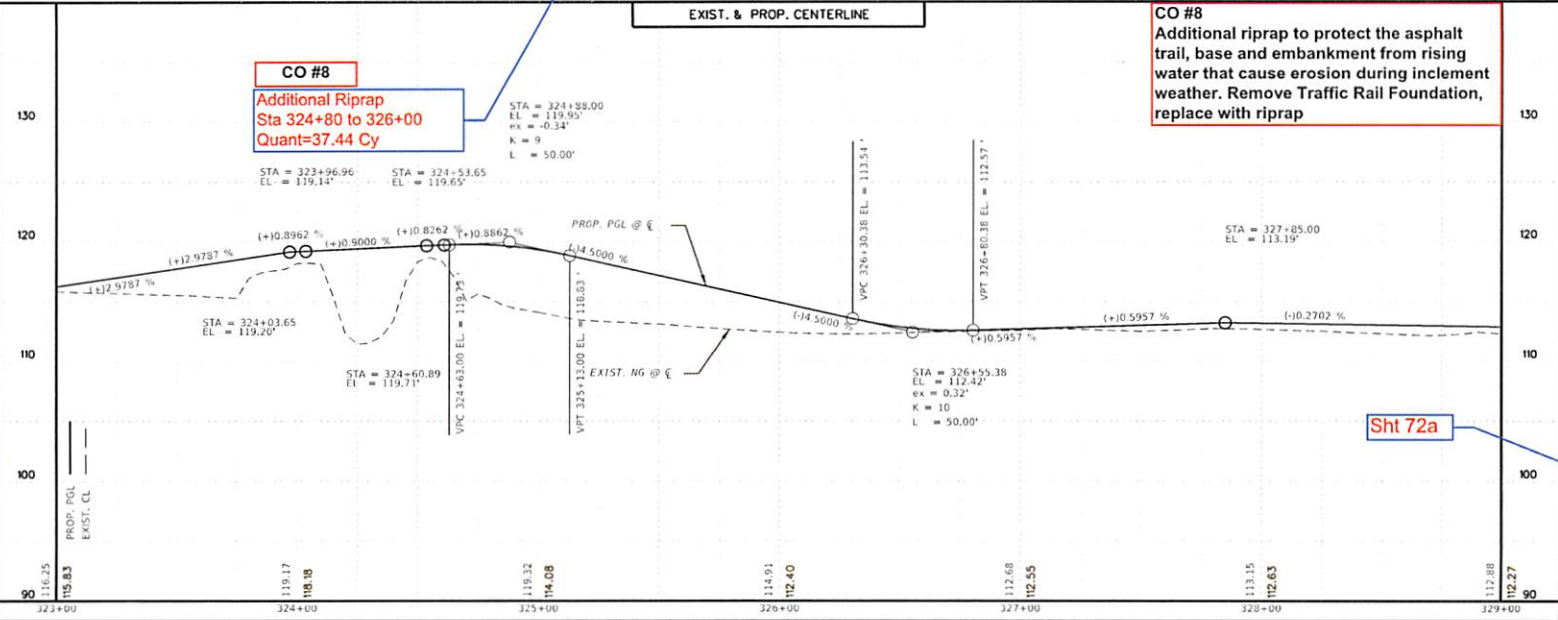
DATE	NO.	BY	CHKD.	APP'D.

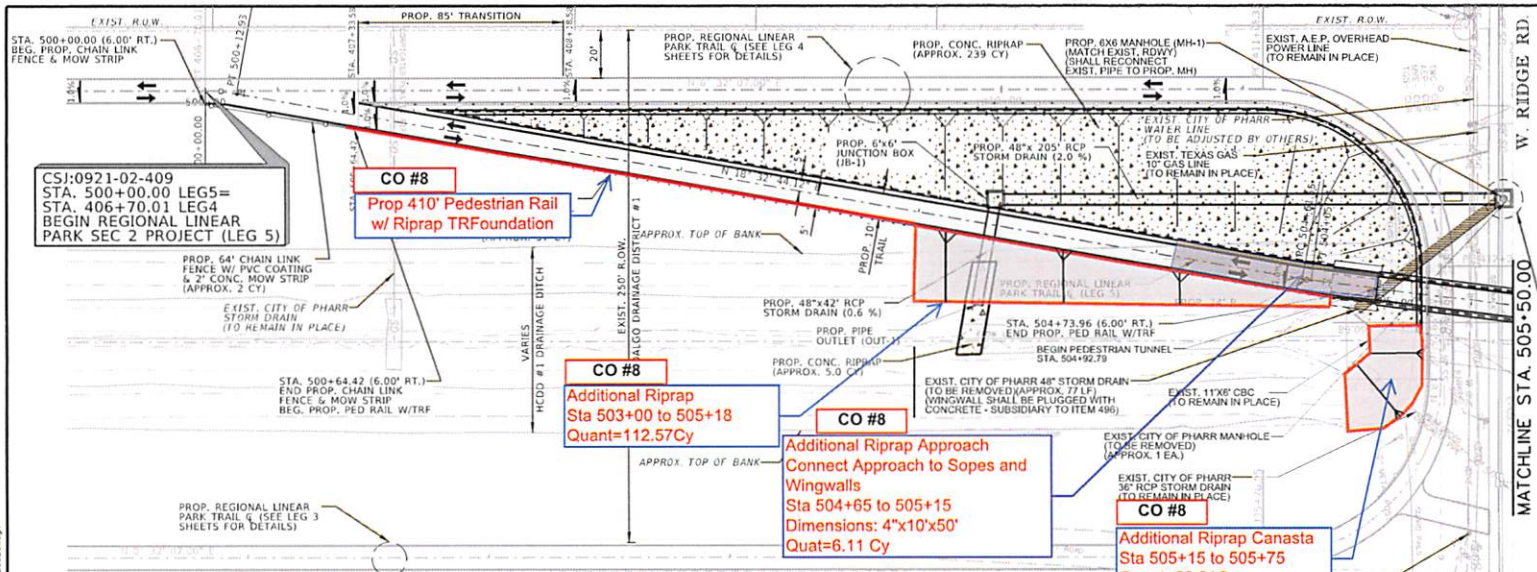
STATE	PROJECT NO.	SHEET
TEXAS	STP 2019 (0861) TP	72
COUNTY	DISTRICT	SECTION
PHARR	HIDALGO	0921 02 409

**CO #8**  
 Additional riprap to protect the asphalt trail, base and embankment from rising water that cause erosion during inclement weather. Remove Traffic Rail Foundation, replace with riprap

**CO #8**  
 Additional Riprap  
 Sta 324+80 to 326+00  
 Quant=37.44 Cy

Sht 72a

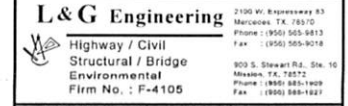
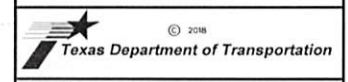
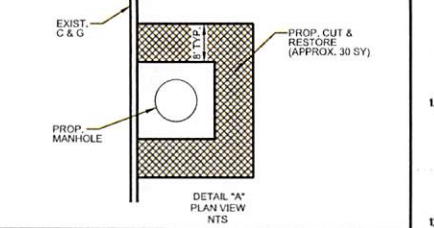
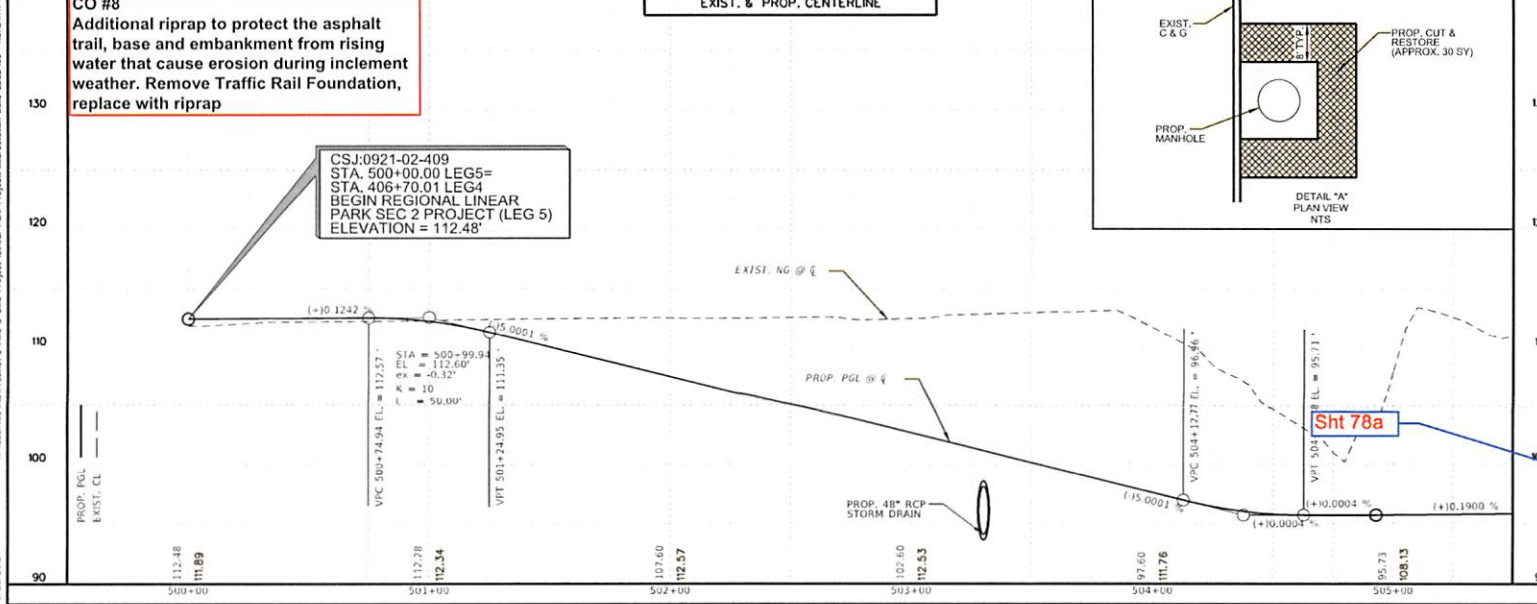




SHEET SUMMARY			
ITEM	DESCRIPTION	UNIT	QUANTITY
400	CUT & RESTORE	SY	30
400	SAND BACKFILL	CY	87
402	TRENCH EXCAVATION PROTECTION	LF	24.7
432	CONC. RIPRAP CONC. (4")	CY	244
432	RIPRAP CONC. (4") (MOW STRIP)	CY	2
430	TRAIL (TY PAV)	LF	430
464	48" RCP (SPL) (CL. #)	LF	247
465	JCT BOX (COMPL) (48"x48")	EA	1
465	MH (COMPL) (SPL) (48"x60")	EA	1
496	REMOVE STR (SPL)	LF	77
496	REMOVE STR (MANHOLE)	EA	1
550	CHAIN LINK FENCE (INSTALL)	LF	64

- LEGEND:**
- DIRECTION OF TRAFFIC
  - ▨ PROPOSED CUT & RESTORE
  - ⊗ TO BE REMOVED UNDER ITEM 496 INCLUDES PAYMENT FOR REMOVAL OF ALL APPURTENANCES
- NOTES:**
- SEE ALIGNMENT DATA SHEET FOR PROP. CENTERLINE DATA.
  - SEE SURVEY DATA SHEET FOR BM STATIONS, OFFSET, ELEV. ETC.

STR. ID	DESCRIPTION	STATION / OFFSET	TOP OF STR. ELEV.	PROP. FL. OF STR.	PROP. FL. OF PIPE (NORTH)	PROP. FL. OF PIPE (SOUTH)	PROP. FL. OF PIPE (EAST)	PROP. FL. OF PIPE (WEST)
MH-1	PROP. MANHOLE (P.S.L. RC 6'X6')	STA. 505+42.43 35' LT.	111.07'	98.25'	98.25'	98.25'		101.07'
JB-1	PRECAST JUNCTION BOX (6'X6')	STA. 503+31.10 62' LT.	101.40'	94.15'	94.15'		94.15'	
OUT-1	OUTLET	STA. 503+31.33 99' RT.	93.90'	93.90'				



**REGIONAL LINEAR PARK PROJECT**  
**PLAN & PROFILE (LEG 5)**  
**STA. 500+00 TO STA 505+50**

SCALE: HORIZ = 50' VERT = 1"=10'

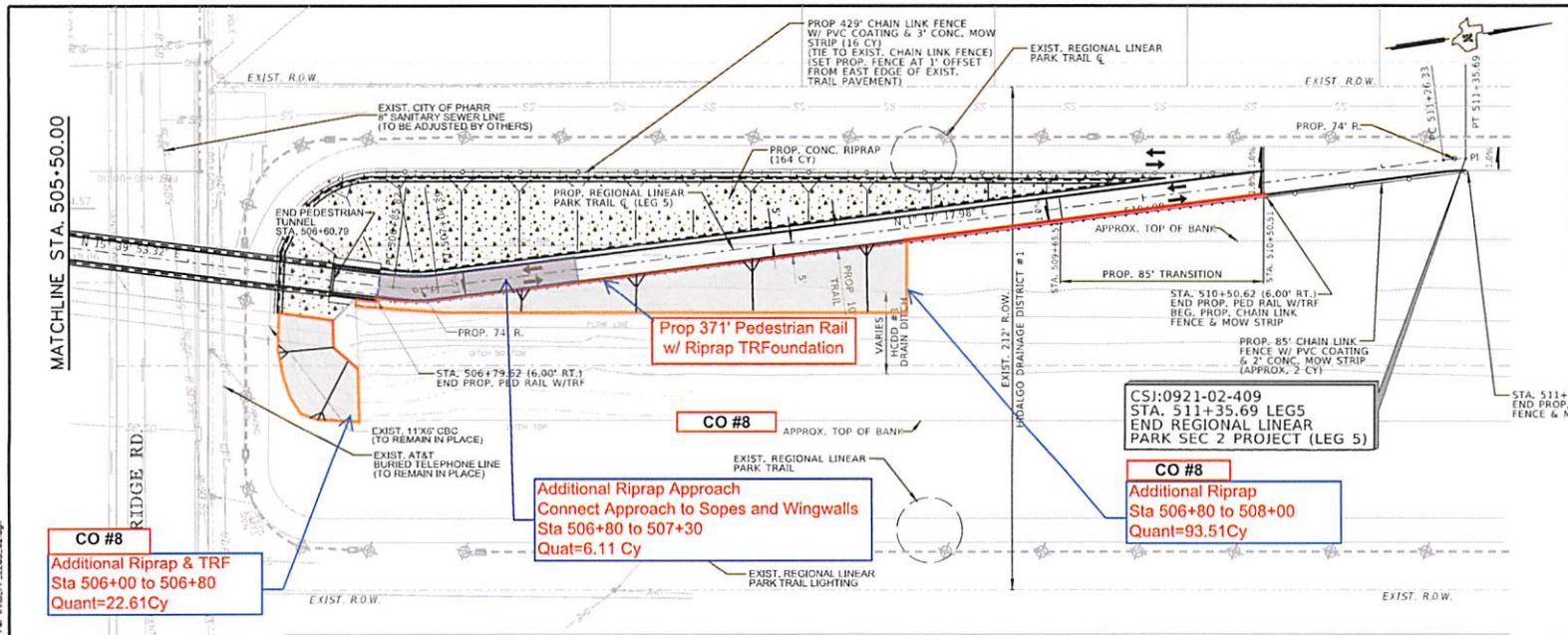
SHEET 1 of 2

DATE	BY	STATE	PROJECT	SHEET
08/23/18	DA	TX	SLP 2019 (086) TP	78

NO.	DATE	BY	DESCRIPTION
1	08/23/18	DA	ISSUED FOR PERMIT

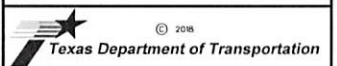
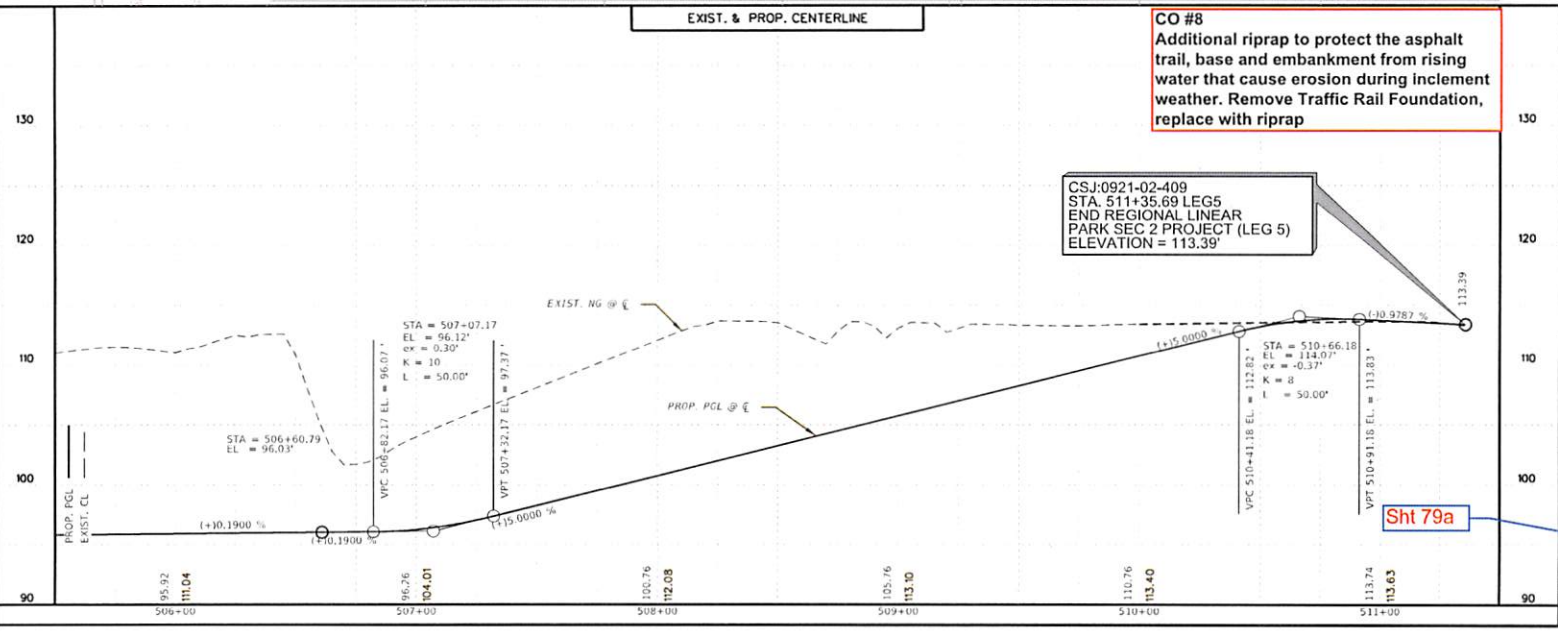
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8/23/2018 K:\Cuentas\MSD\Project 2\Draw & Bid\Project\Clear Post\Project\Microstation\Draw\SEC2\03 - RIDGE RD - RAIL\RIDG\_P1\_L105\_02.dwg



SHEET SUMMARY			
ITEM	DESCRIPTION	UNIT	QUANTITY
430	CONC. TRAP	EA	1
432	RIPRAP CONC. (4")	CY	164
432	RIPRAP CONC. (4") (MOW STRIP)	CY	18
450	RAIL (TY 991)	LF	371
550	CHAIN LINK FENCE (INSTALL)	LF	514

- LEGEND:**
- DIRECTION OF TRAFFIC
  - ▨ PROPOSED CUT & RESTORE
  - ★ TO BE REMOVED UNDER ITEM 496 INCLUDES PAYMENT FOR REMOVAL OF ALL APPURTENANCES
- NOTES:**
- SEE ALIGNMENT DATA SHEET FOR PROP. CENTERLINE DATA
  - SEE SURVEY DATA SHEET FOR BM STATIONS, OFFSET, ELEV. ETC.



**L & G Engineering**  
 Highway / Civil  
 Structural / Bridge  
 Environmental  
 Firm No. : F-4105

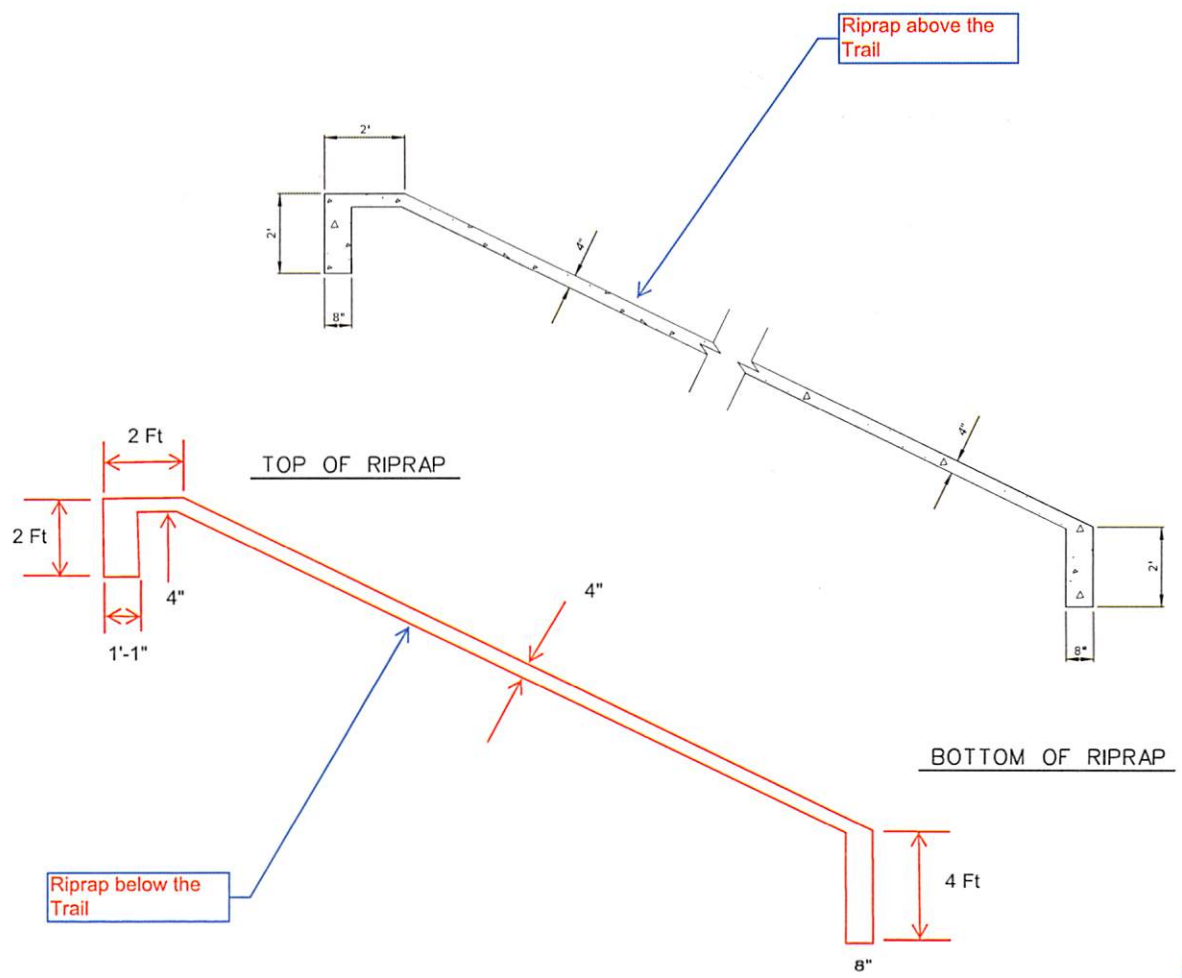
2100 W. Expressway 83  
 Mercedes, TX 78570  
 Phone : (956) 565-5813  
 Fax : (956) 565-5018

903 S. Stewart Rd., Ste. 10  
 Mission, TX 78572  
 Phone : (956) 585-1909  
 Fax : (956) 585-1927

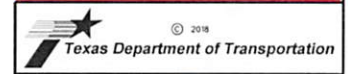
**REGIONAL LINEAR PARK PROJECT**  
**PLAN & PROFILE (LEG 5)**  
**STA. 505+50 TO STA 511+35.69**

DATE	NO.	BY	CHKD.	APP'D.	SCALE	SHEET NO.	TOTAL SHEETS
8/23/2018	79	PHR	PHR	PHR	1"=10'	2 of 2	79

K:\Courses\18\Project 2\Notes & Blue Project\Linear Park Project\Miscellaneous Data SEC2\03 - ROADWAY\03 - CONC RIPRAP DETAIL.CONC RIPRAP DETAIL.dwg  
 8/23/2018



**CO #8**  
 Additional riprap to protect the asphalt trail, base and bankment from rising water that cause erosion during inclement weather. Remove Traffic Rail Foundation, replace with riprap



**L & G Engineering**  
 Highway / Civil  
 Structural / Bridge  
 Environmental  
 Firm No. : F-4105

**REGIONAL LINEAR PARK PROJECT**  
**CONC. RIPRAP DETAIL**



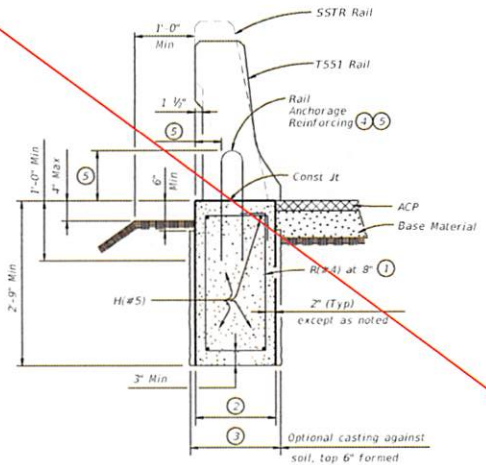
80a

SCALE: 1/4" = 1'-0"

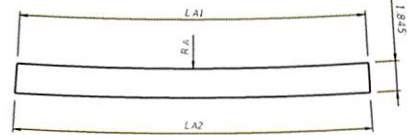
NO.	DATE	BY	CHK'D BY	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	08/23/18	DA	DA	TX		1	1

DISCLAIMER: This standard is governed by the Texas Engineering Practice Act. No warranty of any kind is made by TxDOT for any purpose whatsoever. TxDOT assumes no responsibility for the consequences of this standard to other individuals or for incorrect results or damages resulting from its use.

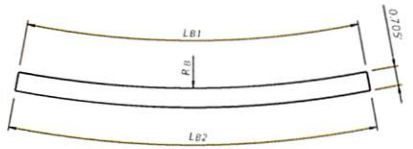
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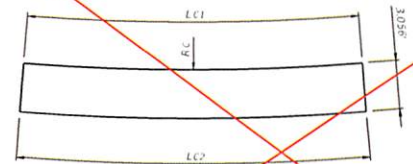
**TRAFFIC RAIL FOUNDATION**  
(Showing T551 & SSTR Rails, other Bridge Rails similar)



**DEVELOPED SURFACE-A**  
(T551 Type Rail)

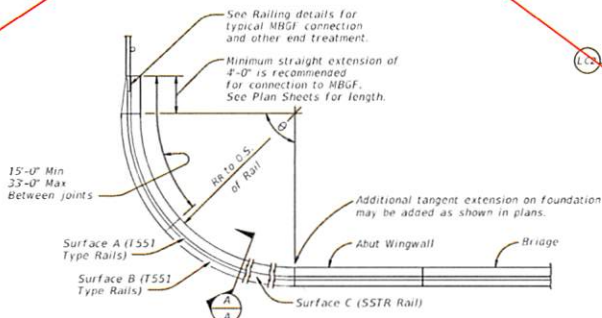


**DEVELOPED SURFACE-B**  
(T551 Type Rail)



**DEVELOPED SURFACE-C**  
(SSTR Rail)

- ① Stirrup hook length is 5" (Typ)
- ② 1'-4" for Bridge Rail Types: All rails except for T224, C412, T66, C66, T80HT and T80SS. Approximate Footing Concrete = 0.14 CY/LF and Reinforcement = 11.5 LB/LF.  
1'-7" for Bridge Rail Types: T224, C412, T66, C66, T80HT and T80SS. Approximate Footing Concrete = 0.16 CY/LF and Reinforcement = 12.0 LB/LF.
- ③ 1'-6" for Bridge Rail Types: All rails except for T224, C412, T66, C66, T80HT and T80SS.  
1'-9" for Bridge Rail Types: T224, C412, T66, C66, T80HT and T80SS.
- ④ Modify reinforcement on standard bridge rail anchorage if necessary by extending rail anchorage 12" Min, vertically, into traffic rail foundation.
- ⑤ See applicable bridge rail standard.



**CURVED T551 & SSTR TYPE RAILING AT BRIDGE ENDS**

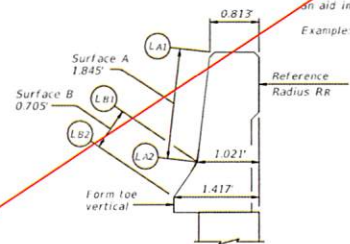
**TABLE OF DEVELOPED SURFACES**  
DIMENSIONS FOR  $\theta = 90^\circ$

Reference Radius Rr (ft) to back of Rail	T551 TYPE RAILS						SSTR RAIL		
	Radius RA	Arc Length LA1 LA2		Radius RB	Arc Length LB1 LB2		Radius RC	Arc Length LC1 LC2	
10	95.76	16.99	17.31	19.63	17.31	17.93	55.66	16.69	17.61
15	140.04	24.84	25.17	28.54	25.17	25.79	81.86	24.54	25.46
20	184.32	32.69	33.02	37.44	33.02	33.64	108.05	32.40	33.31
25	228.60	40.55	40.87	46.35	40.87	41.50	134.25	40.25	41.17
30	272.88	48.40	48.73	55.25	48.73	49.35	160.44	48.11	49.02

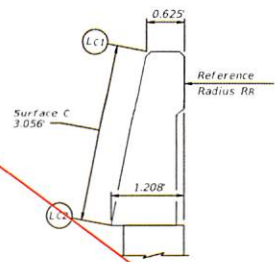
$RA = 8.856(RR + 0.813)$        $RB = 1.7811(RR + 1.021)$        $RC = 5.2389(RR + 0.625)$   
 $LA1 = 1.5708(RR + 0.813)$        $LB1 = 1.5708(RR + 1.021)$        $LC1 = 1.5708(RR + 0.625)$   
 $LA2 = 1.5708(RR + 1.021)$        $LB2 = 1.5708(RR + 1.417)$        $LC2 = 1.5708(RR + 1.208)$

The linear ratio may be used to obtain the above arc length dimensions for included  $\theta$  angles other than  $90^\circ$ . The dimensions are intended as an aid in constructing forms for curved SSTR & Type T551 Railing.

Example: For  $RR = 10$  &  $80^\circ$  -  $LA1 = 16.99(\theta/90)$



**SECTION A-A**  
(T551 Type Rails)



**SECTION A-A**  
(SSTR Rail)

**DESIGN GUIDANCE:**  
The use of curved rail sections at bridge ends must be appropriate for the speed and site conditions.

**MATERIAL NOTES:**  
Provide Class "C" concrete. Provide Class "C" (HPC) if required elsewhere.  
Provide Grade 60 reinforcing steel.  
Epoxy coat or galvanize all reinforcing steel if required elsewhere.  
Provide bar laps, where required, as follows:  
Uncoated or galvanized - #5 = 7'-4"  
Epoxy coated - #5 = 3'-6"

**GENERAL NOTES:**  
The foundations indicated are suitable for mounting typical concrete bridge barrier type railings. The design resistance is based on the current AASHTO bridge railing requirements with the assumption of fair to good soil support conditions. Poor soil conditions will require suitably deeper foundations. See Railing standards for details not shown.  
The primary use of the curved railing detail is to avoid the necessity of curved MBGF at the ends of bridges adjacent to grade intersections.  
This detail is intended for use as a guide to unusual railing anchorage situations but may be included in the plans, modified as necessary to apply to specific installations required on the project.  
Payment for railing foundations will be by CY of Class "C" or Class "C" (HPC) concrete.  
Reinforcing steel quantities shown are for contractor's information only.  
The associated bridge railing will be paid for by the linear foot which includes the concrete and reinforcement.  
Excavation will be subsidiary to other items.

Cover dimensions are clear dimensions, unless noted otherwise.

**CO #8**  
Additional riprap to protect the asphalt trail, base and embankment from rising water that cause erosion during inclement weather. Remove Traffic Rail Foundation, replace with riprap

		<b>Bridge Division Standard</b>	
<b>TRAFFIC RAIL FOUNDATION AND MISCELLANEOUS DETAILS</b>			
<b>TRF</b>			
Title: TRF-02 (R.20)	Rev: 1-2007	Date: 09/21/02	Rev: 02
Project: M-270-018	Sheet: 409	County: MIDLAND	Project No: 05

- Plan Modifications
1. Replace TRF(1.33Ft x 2.75Ft) with Riprap Foundation(1.083Ft x 2 Ft)
  2. Replace 50Ft of Asphalt Trail with %0Ft of concrete Trail

**Major Item Adjustment**

1. A Major Item is eligible for a price increase.
2. A major item is over \$100,000
3. The quantity over 125% of original PQ is eligible for a price increase.

	Riprap & Foundation					Foundation			
	L1	L & L(Avg)	D	W	SF	CF	Cy	CY	
Rail Foundation	123+00.	126+16.	316.00	2.75	1.33		1155.77	42.81	-0.14
Slope	125+00.	14							
Slope	125+50.	8.5	11.25	50	0.33	562.50	185.625	6.88	
Slope	126+00.	9	8.75	50	0.33	437.50	144.375	5.35	
Slope	126+35.14	9	9	35.14	0.33	316.26	104.3658	3.87	
Trail	126+35.14	126+85.14	50.00	0.33	10	500.00	165	6.11	
			L	D	W		CF	Cy	
Toe(Top)Rail Fdtn	123+00.	126+35.14	335.14	2	1.083	670.28	725.9132	26.89	
Toe(Bottom)	125+00.	126+35.14	135.14	4	0.67		362.1752	13.41	
Toe(Ends)	125+00.	126+35.14	23	2	0.67		30.82	1.14	

	TRF		Trail	Rem Conc(WW) (CY)
	Riprap	Foundation		
		-44.24		
	16.09			57.53
	6.11		-12.22	
	26.89			
	13.41			
	1.14			

	Riprap & Foundation					Foundation			
	L1	L & L(Avg)	D	W	SF	CF	Cy	CY	
Rail Foundation	127+66.	132+00.	434.00	2.75	1.33		1587.355	58.79	-0.14
Slope	127+66.	9							
Slope	128+00.	8	8.5	34	0.33	95.37	31.776	3.53	
Trail	127+66.	128+16.	50.00	0.33	10	500.00	165	6.11	
			L	D	W		CF	Cy	
Toe(Top)	127+66.	132+00.	434.00	2	1.33		437.33	16.20	
Toe(Bottom)	127+66.	128+00.	34.00	4	0.67		91.12	3.37	
Toe(Ends)	127+66.	128+00.	17	2	0.67		22.78	0.84	

	TRF		Trail	Rem Conc(WW) (CY)
	Riprap	Foundation		
		-60.76		
	3.53			23.95
	6.11		-12.22	
	16.20			
	3.37			
	0.84			

	Riprap & Foundation					Foundation			
	L1	L(Avg)	D	W	SF	CF	Cy	CY	
Rail Foundation	300+79.	304+56.	377.00	2.75	1.33	0.00	1378.878	51.07	-0.14
Slope	303+00.	28							
Slope	303+50.	21.82	24.91	50	0.33	138.39	411.015	15.22	
Slope	304+00.	14.5	18.16	50	0.33	100.89	299.64	11.10	
Slope	304+56.	8.35	11.425	56	0.33	71.09	211.134	7.82	
Trail	304+56.	304+06.	50.00	0.33	10	500.00	165	6.11	
			L	D	W		CF	Cy	
Toe(Top)Rail Fdtn	300+79.	304+56.	377.00	2	1.083		816.582	30.24	
Toe(Bottom)	303+00.	304+56.	156	4	0.67		418.08	15.48	
Toe(Ends)	303+00.	304+56.	36.35	2	0.67		48.709	1.80	

	TRF		Trail	Rem Conc(WW) (CY)
	Riprap	Foundation		
		-52.78		
	34.14			81.67
	6.11		-12.22	
	30.24			
	15.48			
	1.80			

	Riprap & Foundation					Foundation			
	L1	L(Avg)	D	W	SF	CF	Cy	CY	
Canasta	304+26.	10							
Slope	304+86.	10	20	60.00	0.33		396	14.67	
Slope									
Toe(Top)(Side)			80	2	0.67		107.2	3.97	
Toe(Bottom)(Side)			80	2	0.67		107.2	3.97	

	TRF		Trail	Rem Conc(WW) (CY)
	Riprap	Foundation		
	14.67			
	3.97			
	3.97			22.61

**Sta 305+80 to 308+50(Lt)**

	L1	L(Avg)	D	W	CF	Cy	
Slope Left							
Slope	305+80.	10					
Slope	306+00.	23.38	16.69	20	0.33	37.09	110.154
Slope	307+00.	59.38	41.38	100	0.33	459.78	1365.54
Slope	308+00.	70	64.69	100	0.33	718.78	2134.77
Slope	308+50.	75	72.5	50	0.33	3625.00	1196.25
Trail	305+80.	306+30.	50.00	0.33	10	500.00	165

1

	TRF Riprap	Foundation	Trail ASPH TON
	178.03		
	6.11		-12.22

222.44

	L	D	W	CF	Cy	
Toe(Top)	305+80.	308+50.	270.00	2	0.67	361.8
Toe(Bottom)	305+80.	308+50.	270.00	4	0.67	723.6
Toe(Ends)	305+80.	308+50.	85	2	0.67	113.9

	13.40		
	26.80		
	4.22		

Canasta

	L1	L(Avg)	D	W	CF	Cy
Slope	305+20.					
Slope	305+80.	306+30.	20	60.00	0.33	396
Toe(Top)(Side)			80	2	0.67	107.2
Toe(Bottom)(Side)			80	2	0.67	107.2

	TRF Riprap	Foundation	Trail ASPH TON
	14.67		
	3.97		
	3.97		

22.61

**Sta 305+80 to 310+00(Rt)**

	L1	L(Avg)	D	W	CF	Cy
Slope Right						
Slope	305+80.	50				
Slope	307+00.	43	46.5	120	0.33	620.00
Slope	310+00.	10	26.5	300	0.33	883.33

	TRF Riprap	Foundation	Trail ASPH TON
	165.37		

	L	D	W	CF	Cy
Toe(Top)		420.00	2	0.67	562.8
Toe(Bottom)		420.00	2	0.67	562.8
Toe(Ends)		60	2	0.67	80.4

	20.84		
	20.84		
	2.98		

**Sta 324+80 to 326+00(Irrigation Canal)**

	L1	L(Avg)	D	W	CF	Cy
Slope	324+80.	16.5				
Slope	326+00.	8.5	12.5	120	0.33	166.67

	TRF Riprap	Foundation	Trail ASPH TON
	18.33		

	L	D	W	CF	Cy
Toe(Top)Rail Fdtn		120	2	0.67	160.8
Toe(Bottom)		120	4	0.67	321.6
Toe(Ends)		25	2	0.67	33.5

	5.96		
	11.91		
	1.24		

**Sta 503+00 to 505+15**

	L1	L(Avg)	D	W	CF	Cy
Rail Foundation	500+64.	504+74.	410.00	2.75	1.33	1499.575
Slope	503+00.	42.69				
Slope	503+50.	34.46	38.575	50	0.33	214.31
Slope	504+00.	26.93	30.695	50	0.33	170.53

	TRF Riprap	Foundation	Trail ASPH TON
		-57.40	

Trail	Slope	504+50.	19.4	23.165	50	0.33	128.69	382.2225	14.16	
	Slope	505+00.	20	19.7	50	0.33	985.00	325.05	12.04	
	Slope	505+15.	20	20	15	0.33	300.00	99	3.67	
		504+65.	505+15.	50	0.33	10	500.00	165	6.11	

	72.19	
	6.11	-12.22

132.83

	L	D	W	CF	Cy			
Toe(Top)	500+64.	504+74.	451.00	2	1.083	976.866	36.18	
Toe(Bottom)	503+00.	505+15.	215.00	4	0.67	576.2	21.34	
Toe(Ends)	503+00.	505+15.	62.69	2	0.67	84.0046	3.11	

	Riprap	TRF Foundation	Trail ASPH TON
	36.18		
	21.34		
	3.11		

Canasta								
Slope	505+15.	10						
Slope	505+75.	+10.	20	60.00	0.33	396	14.67	
Toe(Top)(Side)			80	2	0.67	107.2	3.97	
Toe(Bottom)(Side)			80	2	0.67	107.2	3.97	

	14.67	
	3.97	
	3.97	

22.61

	L1	L(Avg)	D	W	CF	Cy		
Rail Foundation	506+80.	510+51.	371.00	2.75	1.33	1356.933	50.26	-0.14
Slope	506+80.	19						
Slope	507+00.	27	23	20	0.33	51.11	151.8	5.62
Slope	507+50.	35	31	50	0.33	172.22	511.5	18.94
Slope	508+00.	44	39.5	50	0.33	219.44	651.75	24.14
Trail	506+80.	507+30.	50	0.33	10	500.00	165	6.11

	Riprap	TRF Foundation	Trail ASPH TON
		-51.94	
	48.71		
	6.11		-12.22

93.51

	L	D	W	CF	Cy			
Toe(Top)Rail Fdtn	506+80.	510+51.	371.00	2	1.083	803.586	29.76	
Toe(Bottom)	506+80.	508+00.	120.00	4	0.67	321.6	11.91	
Toe(Ends)			63	2	0.67	84.42	3.13	

	29.76		
	11.91		
	3.13		

Canasta								
Slope	506+00.	10						
Slope	506+80.	+10.	20	60.00	0.33	396	14.67	
Toe(Top)(Side)			80	2	0.67	107.2	3.97	
Toe(Bottom)(Side)			80	2	0.67	107.2	3.97	

	Riprap	TRF Foundation	Trail ASPH TON
	14.67		
	3.97		
	3.97		

22.61

	Riprap CY	TRF Foundation CY	Asph Trail Ton	Rem Conc(WingW) (CY)
	986.50	-267.12	-73.33	1.00
	\$250.00	\$295.00	\$86.00	\$850.00
	\$246,624.10	-\$78,800.40	-\$6,306.67	\$850.00

\$162,367.03

**Major Item Adjustment**

1. A Major Item is eligible for a price increase.
2. A major Item is over \$100,000
3. The quantity over 125% of original PQ is eligible for a price increase.

Change Order #8  
Plan Modifications

1. Replace TRF(1.33Ft x 2.75Ft) with Riprap Foundation(1.083Ft x 2 Ft)
2. Replace 50Ft of Asphalt Trail with 90Ft of concrete Trail

**Existing Item**

			100%	125%	Remainder					
Plan Quantity			1110	1387.5	709					
Change Order Amount			986.5							
Change Order Total			2096.5							
			Original Price	100% Plan Quantity	125% Plan Quantity	Difference	New Price Quantity	New Price		
432-6001	RIPRAP (CONC) (4 IN)	CY	\$250.00	1110	1387.5	277.5	709	\$304.00	\$215,536.00	
				\$277,500.00	\$346,875.00	\$69,375.00				

Texas Cordia Cost Breakdown

Excavate, Form & Pour Additional Concrete Rip-Rap 4"

Production = 20 CY/Day

Time = 49 Days

Labor	Hrs	Rate	Total	55%	25%	Sum
2	392	\$11.53	\$9,039.52	\$4,971.74	\$2,259.88	\$16,271.14
2	392	\$12.50	\$9,800.00	\$5,390.00	\$2,450.00	\$17,640.00
3	392	\$13.00	\$15,288.00	\$8,408.40	\$3,822.00	\$27,518.40
1	60	\$15.23	\$913.80	\$502.59	\$228.45	\$1,644.84
1	392	\$40.00	\$15,680.00	\$8,624.00	\$3,920.00	\$28,224.00
			\$50,721.32	\$27,896.73	\$12,680.33	\$91,298.38

Equipment	Hrs	Rate	Total	15%	Sum
1	60	\$15.00	\$900.00	\$135.00	\$1,035.00
1	60	\$125.46	\$7,527.60	\$1,129.14	\$8,656.74
1	60	\$21.84	\$1,310.40	\$196.56	\$1,506.96
1	392	\$23.86	\$9,353.12	\$1,402.97	\$10,756.09
			\$19,091.12	\$2,863.67	\$21,954.79

Material	Hrs	Rate	Total	25%	Sum
1	986.5	\$115.00	\$113,447.50	\$28,361.88	\$141,809.38
1			\$33,488.50	\$8,372.13	\$41,860.63
			\$146,936.00	\$36,734.00	\$183,670.00

Sub	\$296,923.16
1%	\$2,969.23
Total	\$299,892.40

49 Days 392Hrs

986.5 Quantity

\$304.00 Adjusted Price

\$250.00 Original Price

Pharr District  
Riprap Average Low Bid Price  
CONSTRUCTION PROJECT

PHARR								
21								
ITEM CODE	ITEM DESCRIPTION	ITEM UNIT	DISTRICT21 1 Month - Projects	DISTRICT21 - 1 Month CY	DISTRICT21 - 3M AVG Price	DISTRICT21 - 12 Month Projects	DISTRICT21 - 12 Month CY	DISTRICT21 - 12M AVG Price
04326009	RIPRAP (CONC) (CL B) (4")	CY	1	6,272.25	\$300.00	2	6,273.15	\$300.16
04326001	RIPRAP (CONC)(4 IN)	CY	1	85.00	\$460.00	1	85.00	\$460.00
04326001	RIPRAP (CONC)(4 IN)	CY				2	3,839.34	\$200.75

10197.49 \$ 960.91  
3399.16 \$ 320.30 Avg



1900 E. 28th St., Weslaco, TX 78596

Co., Inc.  
(956) 969-1578 fax (956) 968-1841

Dear Valued Customer,

Recently there have been issues with local material used on TX DOT projects not meeting the required specification standards. Local concrete sand has not been meeting the required TX DOT standards and demand has put a strain on the availability of TX DOT grade gravel. We have been forced to adapt to this change in supply with alternative mix designs using sand from Victoria, Texas, that has been approved for use on TX DOT projects. As you can imagine there is an increased cost associated with bringing this material from that far away. We are also having to reserve and allocate our local TX DOT grade gravel to only TX DOT projects. All this obviously creates added cost to continue to service your TX DOT projects with material that has been approved by TX DOT. Currently the only approved sand that is available for those projects is from Victoria. After careful consideration of the increased cost we must increase the price of TX DOT mixes by \$10.00 per cubic yard effective September 15, 2019. We realize that you have a set budget on projects based on our quotes, therefore we are trying to alleviate some of the cost by absorbing some of the price increases on this material.

We thank you for your continued business and we look forward to serving you in the near future.

Sincerely,



A.C. Cuellar, III  
Vice President

Project: RLPP II  
 County: Hidalgo  
 CSJ: 0921-02-409



**Excavate, Form & Pour Additional Concrete Rip-Rap 4"**

\*Crew Production used 20/CY  
 \*Increased Costs in Materials

Labor	Unit	Pieces	Quantity	Rate	Rate Total	Ins & Taxes		Markup	Total Cost
						55%	25%		
Laborer Utility	HR	2	392	\$ 11.53	\$ 9,039.52	\$ 4,971.74	\$ 2,259.88		\$ 16,271.14
Form Builder	HR	2	392	\$ 12.50	\$ 9,800.00	\$ 5,390.00	\$ 2,450.00		\$ 17,640.00
Concrete Finisher	HR	3	392	\$ 13.00	\$ 15,288.00	\$ 8,408.40	\$ 3,822.00		\$ 27,518.40
Excavator Operator	HR	1	60	\$ 15.23	\$ 913.80	\$ 502.59	\$ 228.45		\$ 1,644.84
<del>Roller Operator</del>	<del>HR</del>	<del>1</del>	<del>60</del>	<del>\$ 12.00</del>	<del>\$ 720.00</del>	<del>\$ 396.00</del>	<del>\$ 180.00</del>		<del>\$ 1,206.00</del>
<del>Water Truck Driver</del>	<del>HR</del>	<del>1</del>	<del>60</del>	<del>\$ 12.12</del>	<del>\$ 727.20</del>	<del>\$ 399.96</del>	<del>\$ 181.80</del>		<del>\$ 1,308.96</del>
<del>Tandem Truck Driver</del>	<del>HR</del>	<del>1</del>	<del>60</del>	<del>\$ 14.53</del>	<del>\$ 871.80</del>	<del>\$ 479.49</del>	<del>\$ 217.95</del>		<del>\$ 1,569.24</del>
Foreman	HR	1	392	\$ 40.00	\$ 15,680.00	\$ 8,624.00	\$ 3,920.00		\$ 28,224.00
					<b>\$ 53,040.32</b>	<b>\$ 29,172.18</b>	<b>\$ 13,260.08</b>		<b>\$ 95,472.58</b>
					\$50,721.32	\$27,896.73	\$12,680.33		\$91,298.38

Equipment	Unit	Pieces	Quantity	Rate	Base Total	Markup		Total Cost
						15%		
Small Tools	HR	1	60	\$ 15.00	\$ 900.00	\$ 135.00		\$ 1,035.00
325 Excavator	HR	1	60	\$ 125.46	\$ 7,527.60	\$ 1,129.14		\$ 8,656.74
<del>Roller</del>	<del>HR</del>	<del>1</del>	<del>60</del>	<del>\$ 50.00</del>	<del>\$ 3,000.00</del>	<del>\$ 450.00</del>		<del>\$ 3,450.00</del>
Utility Truck	HR	1	60	\$ 21.84	\$ 1,310.40	\$ 196.56		\$ 1,506.96
<del>Water Truck</del>	<del>HR</del>	<del>1</del>	<del>60</del>	<del>\$ 35.00</del>	<del>\$ 2,100.00</del>	<del>\$ 315.00</del>		<del>\$ 2,415.00</del>
<del>Tandem Dump Truck</del>	<del>HR</del>	<del>1</del>	<del>60</del>	<del>\$ 55.00</del>	<del>\$ 3,300.00</del>	<del>\$ 495.00</del>		<del>\$ 3,795.00</del>
Foreman Truck	HR	1	392	\$ 23.86	\$ 9,353.12	\$ 1,402.97		\$ 10,756.09
					<b>\$ 27,491.12</b>	<b>\$ 4,123.67</b>		<b>\$ 31,614.79</b>
					\$19,091.12	\$ 28,63.67		\$21,954.79

**\$33,488.50**

Materials / Other	Unit	Quantity	Unit Price	Material Cost	Markup		Total Cost
					25%		
Class "A" Concrete	CY	986.5	\$ 115.00	\$ 113,447.50	\$ 28,361.88		\$ 141,809.38
<del>Tiewire, Expansion Jt, &amp; Supplies</del>	<del>EA</del>	<del>1</del>	<del>\$ 44,153.35</del>	<del>\$ 44,153.35</del>	<del>\$ 11,038.34</del>		<del>\$ 55,191.69</del>
				<b>\$ 157,600.85</b>	<b>\$ 39,400.21</b>		<b>\$ 197,001.06</b>
				\$146,936.00	\$36,734.00		\$183,670.00

Subcontractor	Unit	Quantity	Unit Price	Sub Cost	Markup		Total Cost
					5%		
				\$ -	\$ -		\$ -

CY 986.5  
 Production 20/CY  
 Days 49

<b>986.5</b>	<b>CY</b>	<del><b>\$ 331.81</b></del>
		<b>\$304.00</b>

<del>SubTotal</del>	<del>\$ 324,088.43</del>	<b>\$296,923.16</b>
<del>Bond 1%</del>	<del>\$ 3,240.88</del>	<b>\$2,969.23</b>
<b>Total</b>	<b>\$ 327,329.31</b>	<b>\$299,892.40</b>



708 - Pharr - IC  
 5411 Athol St.  
 Pharr, TX, 78577  
 (956) 283-9130

**QUOTE**

**34920553**

**Sold To:** 10000014924  
 TEXAS CORDIA CONSTRUCTION LLC  
 3149 A CENTER POINTE DRIVE  
 EDINBURG, TX, 78539

**Ship To:** REGIONAL LINEAR PARK,10002241165  
 SOUTH "I" RD BETWEEN MOORE RD  
 PHARR, TX, 78577  
**Job Site Contact:**  
**Job Site Phone:**  
**Map #:**

11:02 AM

**Ordered By:** ERNIE RAMON

**Contact Phone:** 956-483-9611

Quote Number		Quote Date	Valid Until	Request Date	Sales Person	
34920553		10/02/2019		10/07/2019	Garza, J	
Terms		Shipping Method	Quote Name	Customer PO	Created By	
N30D		0. Will Call			Garza, J	
LN	Part# H/M	Description	Ord Quantity	U/M Unit WT	Price COO	Amount
		<b>**ADDITIONAL RIPRAP**</b> *****				
1.1	434666G5150D	6"X6" 6GA 5'X150' TX-DOT WIRE MESH SOLD/ROLL	108	RL 315 LBS	\$240.00	\$25,920.00
2.1	3392SPF2416	2"X4"X16' #2 SPF LUMBER	294	EA 18.6667 LBS	\$8.20	\$2,410.80
<del>3.1</del>	<del>255SSSTRIP55</del>	<del>55GAL DRUM SPECSTRIP FORM RELEASE SPECHEM</del>	<del>1</del>	<del>DRM 442.75 LBS</del>	<del>\$435.25</del>	<del>\$435.25</del>
4.1	255PAVEWW55	55GAL PAVECURE WW CURING COMPOUND SPECHEM	14	DRM 495 LBS	\$320.25	\$4,483.50
5.1	15151650	50LB 16D DUPLEX NAIL SOLD/BOX	6	BOX 50 LBS	\$42.50	\$255.00
<del>6.1</del>	<del>438416944</del>	<del>29OZ SIKASIL 728 NON-SAG LIMESTONE 12/CS SIKI</del>	<del>240</del>	<del>EA 2.65 LBS</del>	<del>\$36.99</del>	<del>\$8,877.60</del>
<del>7.1</del>	<del>199EB124010</del>	<del>1/2"X4"X10' FIBER EXPANSION BOARD 100FT/BUNDLE</del>	<del>2800</del>	<del>FT .3333 LBS</del>	<del>\$0.49</del>	<del>\$1,372.00</del>
8.1	113TW16DAWGS	3.5LB 16.5GA IMPORT TIE WIRE SQUARE HOLE SOLD/ROLL	80	RL 3.5 LBS	\$4.99	\$399.20

Shipped amount		<del>\$44,153.35</del>
Order charges		\$0.00
Tax amount		\$0.00
Lumber Tax rate/amount	1.00%	\$0.00
Quote total		<del>\$44,153.35</del>
		<b>\$33,488.50</b>

Shipped Weight: **49,030.00** Customer acceptance signature: \_\_\_\_\_ Date : \_\_\_\_\_

ALL ITEMS AND QUANTITIES REQUIRE CUSTOMER REVIEW AND APPROVAL  
 AVAILABILITY AND LEAD TIMES ARE SUBJECT TO CHANGE  
 SPECIAL ORDERED ITEMS ARE SUBJECT TO MANUFACTURER APPROVAL PRIOR TO RETURN.  
 QUOTE IS SUBJECT TO EXPIRATION AS INDICATED IN THE ABOVE DATE.

Note: Due to volatility in the steel market from the recent Section 232 decision, domestic supply constraints and active trade negotiations, pricing is subject to change on a daily basis. Please review your pricing and contact your sales associate immediately to secure products and pricing.