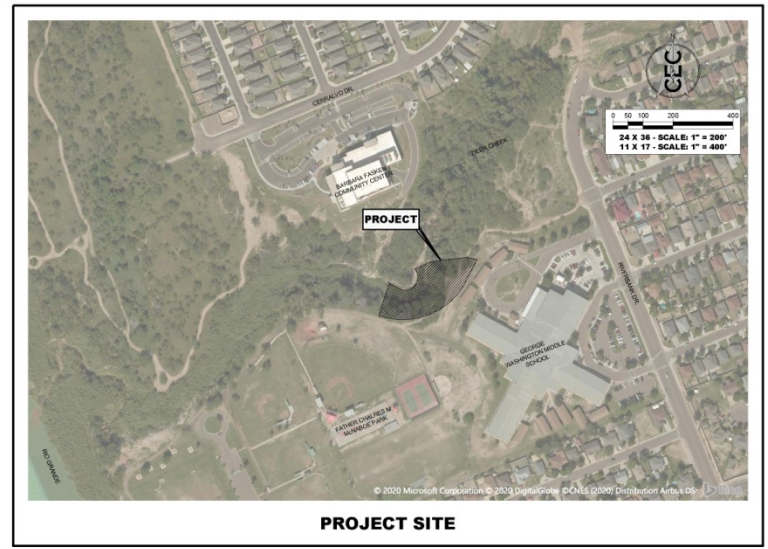
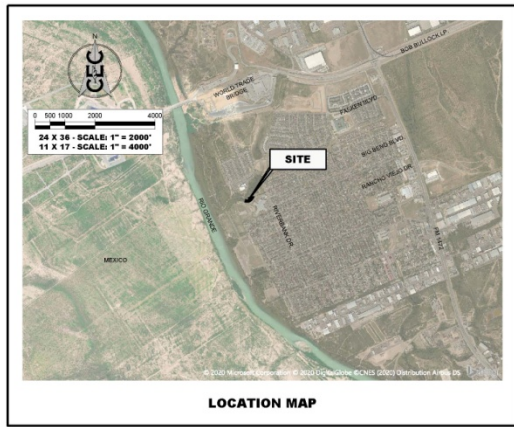


CONSTRUCTION PLANS FOR JOC 014-2019 EROSION CONTROL & RESTORATION AT WASHINGTON MIDDLE SCHOOL



Sheet Number	Sheet Title
1	COVER SHEET
2	CONTROL, GENERAL NOTES, & BASIS OF ESTIMATE
3	EXISTING CONDITIONS
4	OVERALL PROPOSED PLAN & PROFILE
5	CREEK FLOWLINE PLAN & PROFILE
6	CREEK FLOWLINE CROSS SECTIONS
7	MSE WALL 1 PLAN & PROFILE
8	MSE WALL 1 CROSS SECTIONS - 1 OF 3
9	MSE WALL 1 CROSS SECTIONS - 2 OF 3
10	MSE WALL 1 CROSS SECTIONS - 3 OF 3
11	MSE WALL 1 - 90° TURN CROSS SECTION
12	MSE WALL 2 PLAN & PROFILE
13	MSE WALL 2 CROSS SECTIONS - 1 OF 3
14	MSE WALL 2 CROSS SECTIONS - 2 OF 3
15	MSE WALL 2 CROSS SECTIONS - 3 OF 3
16	MSE WALL DESIGN, REINFORCEMENT, BACKFILL, & DRAINAGE PARAMETERS
17	TEMPORARY REINFORCED SOIL SLOPE (RSS)
18	SD LINE PLAN & PROFILE
19	STORM WATER POLLUTION PREVENTION PLAN
20	STORM DRAINAGE DETAILS 1 OF 3
21	STORM DRAINAGE DETAILS 2 OF 3
22	STORM DRAINAGE DETAILS 3 OF 3
23	MSE WALL DETAILS 1 OF 3
24	MSE WALL DETAILS 2 OF 3
25	MSE WALL DETAILS 3 OF 3
26	TEMPORARY RSS DETAILS 1 OF 2
27	TEMPORARY RSS DETAILS 2 OF 2
28	SWPP DETAILS



- UNITED INDEPENDENT SCHOOL DISTRICT BOARD MEMBERS**
- | | | |
|---|---|---|
| <p>RAMIRO VELIZ, III
 JAVIER MONTEMAYOR, JR
 RICARDO RODRIGUEZ
 RICARDO MOLINA, SR
 ALIZA FLORES OLIVEROS
 JUAN ROBERTO RAMIREZ
 JUDD GILPIN
 ROBERTO J. SANTOS</p> |  | <p>PRESIDENT (DISTRICT 4)
 VICE-PRESIDENT (DISTRICT 5)
 SECRETARY (DISTRICT 2)
 PARLIAMENTARIAN (DISTRICT 1)
 MEMBER (DISTRICT 3)
 MEMBER (DISTRICT 6)
 MEMBER (DISTRICT 7)
 SUPERINTENDENT</p> |
|---|---|---|

CEC
 CIVIL ENGINEERING CONSULTANTS
 7109 N. Bartlett Avenue, Suite 201
 Laredo, Texas, 76041
 TEL: 956-729-7844 FAX: 956-729-7854
 TBPE # F-2214 TBPS # 100410-00

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S:\a\p\p\2019\0623501 - Laredo\Drawings\Improvements\0623501-1-COVER SHEET.dwg

**PROJECT OR SERVICES
PROCUREMENT INFORMATION AND TIMELINE FORM
DEPARTMENT: Construction Dept.
Prepared by: Ignacio Alaniz, Director of Construction
Date: July 23, 2020**

PROJECT/SERVICES BASIC INFORMATION				
1.)	Project Title:	Washington MS Storm Drainage Improvements		
2.)	Architect/Engineer Consultant: Specifications Prepared by:	CEC Consultants	P.O. # for Consultant:	20013081
3.)	Project Type:	Construction		
4.)	Project Budget Amount:	\$650,000.00	Budget Source:	Bond Funds
5.)	Project Contingency Allowance Amount:	\$70,000.00		
6.)	Liquidated Damages Amount:	\$1,500.00	per day - Not Applicable if Not a Construction Project	
7.)	Procurement Method Recommended:	JOC		
8.)	Date of Approval of Procurement Method by Board (only for Construction Projects and if it's not a JOC):	9/30/2019		
9.)	CSP, JOC, CMAR, D/B or RFP Project or Service No. (to be issued by Purchasing Dept.):	JOC 014 - 2019		
10.)	Dates for Public Advertisements (if not JOC) & (at least two consecutive weekends):	n/a	&	n/a
11.)	Pre-Proposal Conference Date:	8/19/20		
12.)	Final Date for Vendors to Submit Questions to Purchasing Dept.:	8/26/20		
13.)	Proposals Due Date:	9/2/20		
14.)	Date for Evaluation of Proposals by Facilities Committee:	n/a		
15.)	Evaluation Committee Members:	n/a		
16.)	Bond Oversight Committee Meeting Date (if Bond project only):	09/07/20		
17.)	Business Committee Meeting Date (if not JOC):	n/a		
18.)	Regular Board of Trustees Meeting Date (if not JOC):	09/15/20		
19.)	Project Start Date:	10/19/20		
20.)	Project Substantial Completion Date:	5/21/21		
21.)	Project Final Completion Date:	6/21/21		





North East View Erosion Limits

August 21, 2020



North View Erosion Limits

September 3, 2020



North View of Creek

August 21, 2020



South View at Bottom of Creek

September 3, 2020

LEGEND	
BUILDING LINE	
CURB & GUTTER	
CONCRETE RUBBLE	
CONCRETE FLATWORK (IRRAP)	
ASPHALT PAVEMENT	
CONTOUR (MAJOR)	450
CONTOUR (MINOR)	448
OVERHEAD ELECTRICAL LINE	OHE
FENCE LINE	X
FLOWLINE	
STORM DRAIN LINE	SD 12"
PROPERTY LINE	
POWER POLE	
SERVICE POLE	

GOVERNING SPECIFICATIONS

- CITY OF LAREDO - STANDARD TECHNICAL SPECIFICATIONS MANUAL - LATEST REVISION
- TXDOT - STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MAINTENANCE OF HIGHWAYS, STREETS AND BRIDGES - LATEST REVISION

UTILITY DEPARTMENTS LAREDO, TEXAS

WATER DISTRIBUTION AND SANITARY SEWERS
 NUMBERED SERVICE LINES
 LAREDO WATER UTILITIES DEPARTMENT
 (956) 721-2000

ELECTRIC COMPANY
 MARK COCHRA
 A. E. C.
 (956) 721-3169

TELEPHONE COMPANY
 811
 (956) 727-6749

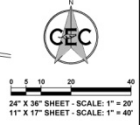
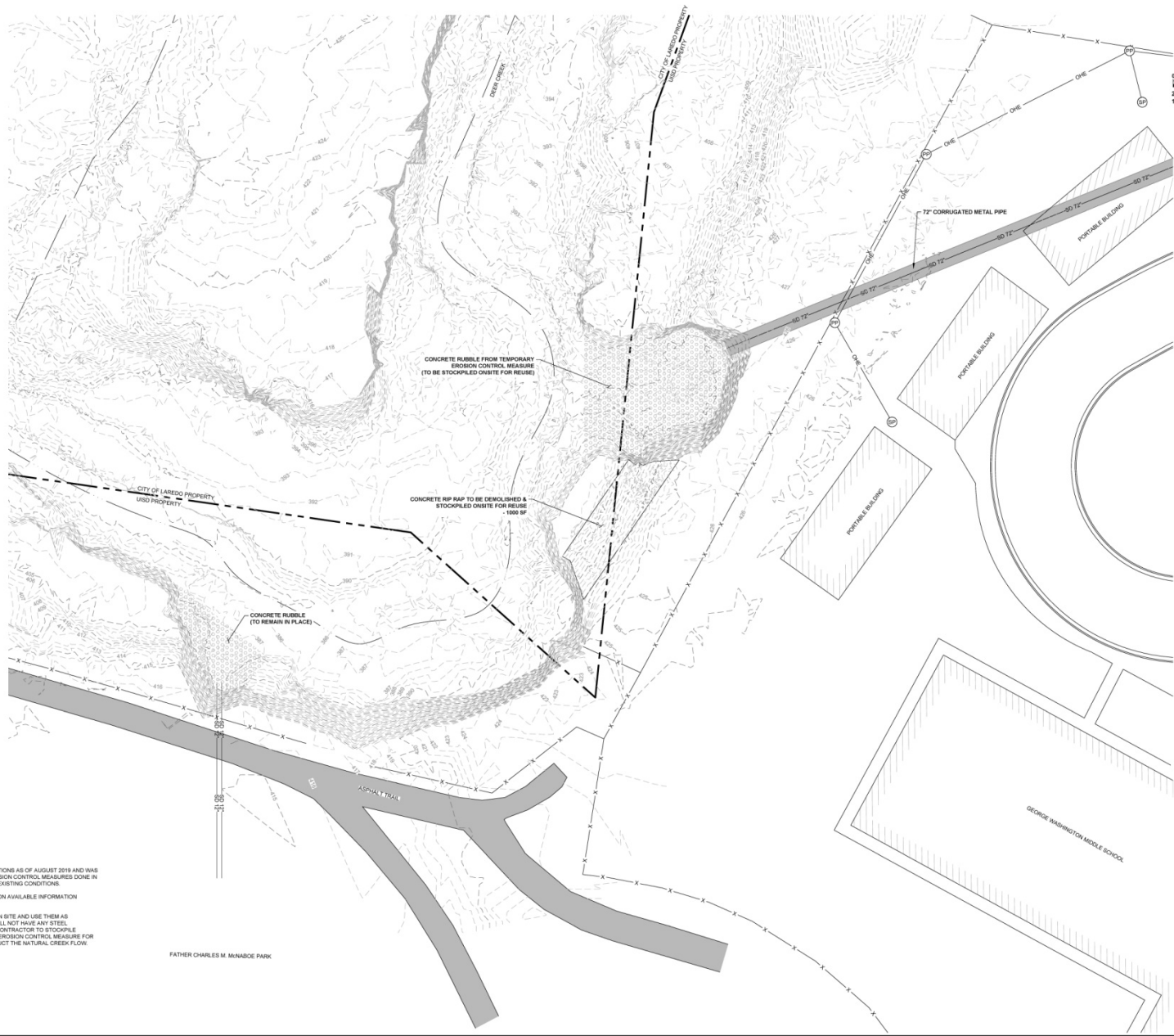
CABLE COMPANY
 THE WARNER CABLE
 (956) 721-0800

CALL BEFORE YOU DIG!
 TEXAS ONE CALL PARTICIPANTS REQUEST
 48 HOURS NOTICE BEFORE YOU DIG
 DRILL OR BLAST - STOP CALL
 TEXAS ONE CALL SYSTEM
 811

Know what's below.
 Call before you dig.

NOTES

- TOPOGRAPHIC SURVEY (DP) EXISTS EXISTING CONDITIONS AS OF AUGUST 2019 AND HAS NOT UPDATED TO REFLECT THE TEMPORARY EROSION CONTROL MEASURES DONE IN FEBRUARY 2020. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS.
- PROPERTY LINES ARE APPROXIMATE AND BASED ON AVAILABLE INFORMATION PROVIDED BY USDO.
- CONTRACTOR MAY RECLAIM CONCRETE SLABS ON SITE AND USE THEM AS CONCRETE RUBBLE FILL. CONCRETE RUBBLE SHALL NOT HAVE ANY STEEL REINFORCEMENT EXPOSED MORE THAN 1 INCH. CONTRACTOR TO STOCKPILE EXISTING CONCRETE RUBBLE FROM TEMPORARY EROSION CONTROL MEASURE FOR REUSE. STOCKPILE LOCATION SHALL NOT OBSTRUCT THE NATURAL CREEK FLOW.



PROJECT	E0623501
PROJECT DATE/TIME	8/29/2024 4:01 PM
STATUS	95% SET
DRAWN BY	REVIEWED BY
CHECKED BY	DATE
FILE	E0623501-EXISTING CONDITIONS.dwg
DATE	8/29/2024
USER	J.P.
PLT	J.P.

GEC
 CIVIL ENGINEERING CONSULTANTS
 7109 N. Industrial Avenue, Suite 201
 Laredo, TX 77904
 TEL: 956-729-7944 FAX: 956-729-7864
 TOLL FREE: 1-800-451-1000

PROJECT NAME
 JOC 014-2019
EROSION CONTROL & RESTORATION AT
WASHINGTON MIDDLE SCHOOL
EXISTING CONDITIONS

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 TEXAS P.E. NO. 54826
 ON 07-28-2020

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3
 SHEET
 3 OF 28

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LEGEND - EXISTING	
BUILDING LINE	
CURB & GUTTER	
CONCRETE RUBBLE	
CONCRETE FLATWORK (R/RAP)	
ASPHALT PAVEMENT	
CONTOUR (MAJOR)	--- 450 ---
CONTOUR (MINOR)	--- 448 ---
OVERHEAD ELECTRICAL LINE	--- OHE ---
FENCE LINE	--- X ---
FLOWLINE	---
STORM DRAIN LINE	--- SD 72" ---
PROPERTY LINE	---
POWER POLE	
SERVICE POLE	

LEGEND - PROPOSED	
GABION WALL	
WIRE-FORMED WALL	
CONCRETE RUBBLE	
CONCRETE FLATWORK (R/RAP)	
CALICHE	
CONTOUR (MAJOR)	--- 450 ---
CONTOUR (MINOR)	--- 448 ---
SLOPE - GRADE	2.0%
SLOPE - RATIO	3:1
POST & CABLE FENCE LINE	---
FLOWLINE	---
STORM DRAIN LINE	--- SD 72" ---
GRADE BREAK	
STORM DRAIN MANHOLE	

GOVERNING SPECIFICATIONS

- CITY OF LAREDO - STANDARD TECHNICAL SPECIFICATIONS MANUAL - LATEST REVISION
- TxDOT - STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MAINTENANCE OF HIGHWAYS, STREETS, AND BRIDGES - LATEST REVISION

UTILITY DEPARTMENTS
LAREDO, TEXAS

WATER DISTRIBUTION AND SANITARY SEWER
PLASTER TO TERRAZZO
LAREDO WATER UTILITIES DEPARTMENT
(956) 721-2000

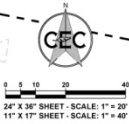
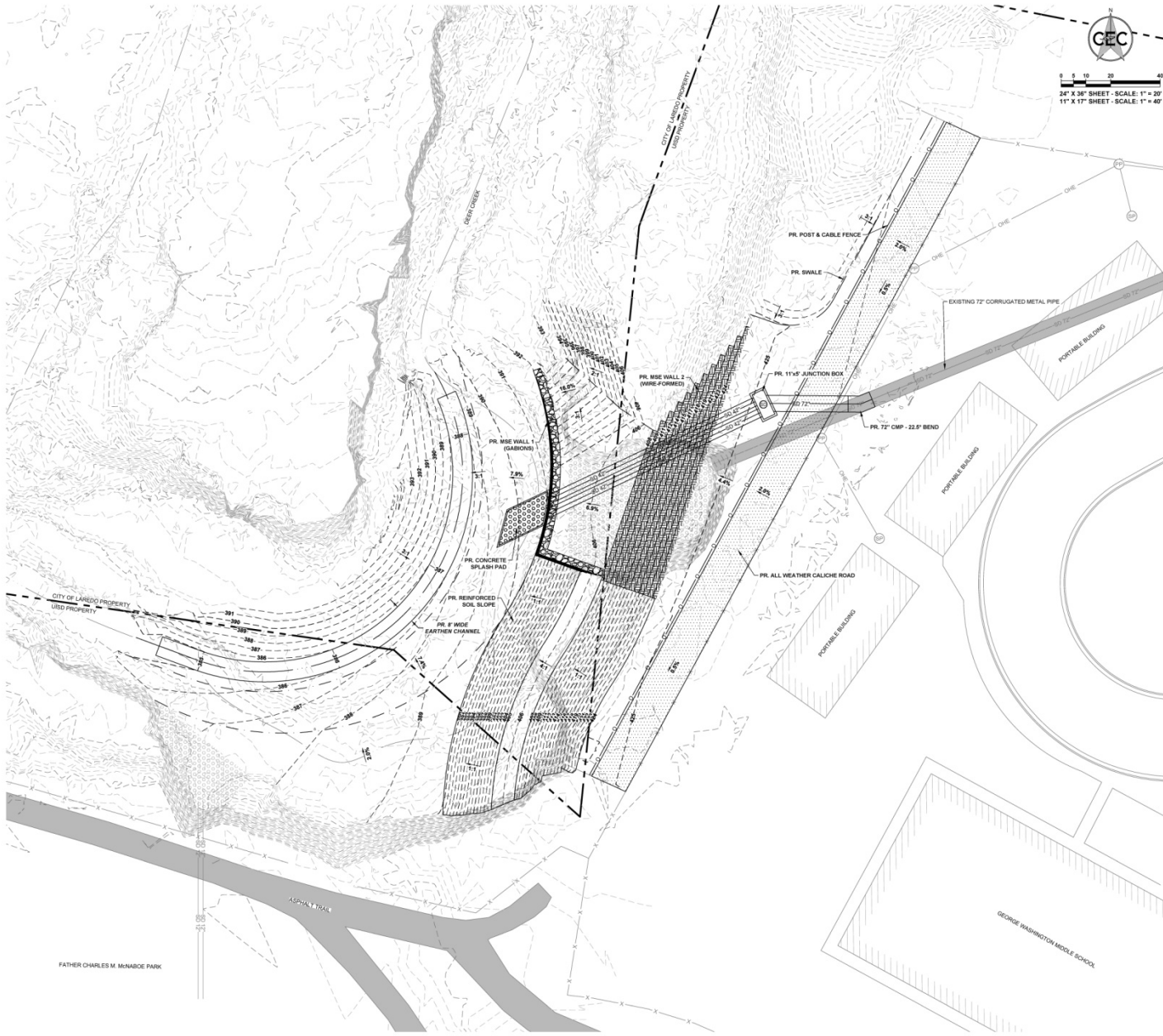
ELECTRIC COMPANY
MARK DOUGA
A.S.P.
(956) 721-3189

TELEPHONE COMPANY
AT&T
(956) 727-4749

CABLE COMPANY
TIME WARNER CABLE
(956) 721-0000

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48 HOURS NOTICE BEFORE YOU DIG
(DRILL OR BLAST - STOP, CALL)
TEXAS ONE CALL SYSTEM
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Call before you dig.



PROJECT	E0623501
PLANT DATE/TIME	7/21/2020 1:56 PM
STATUS	95% SET
DRAWN BY	REVISION DESCRIPTION
CHECKED BY	
DATE	
FILE	E0623501-OVERALL PLAN.dwg
USER	

GEC
GUYTON ENGINEERING CONSULTANTS
7709 N. Industrial Avenue, Suite 201
Laredo, TX 78504
TEL: 956-779-7744 FAX: 956-779-5264
TIPOE # F-2514 TIPS # 10681000

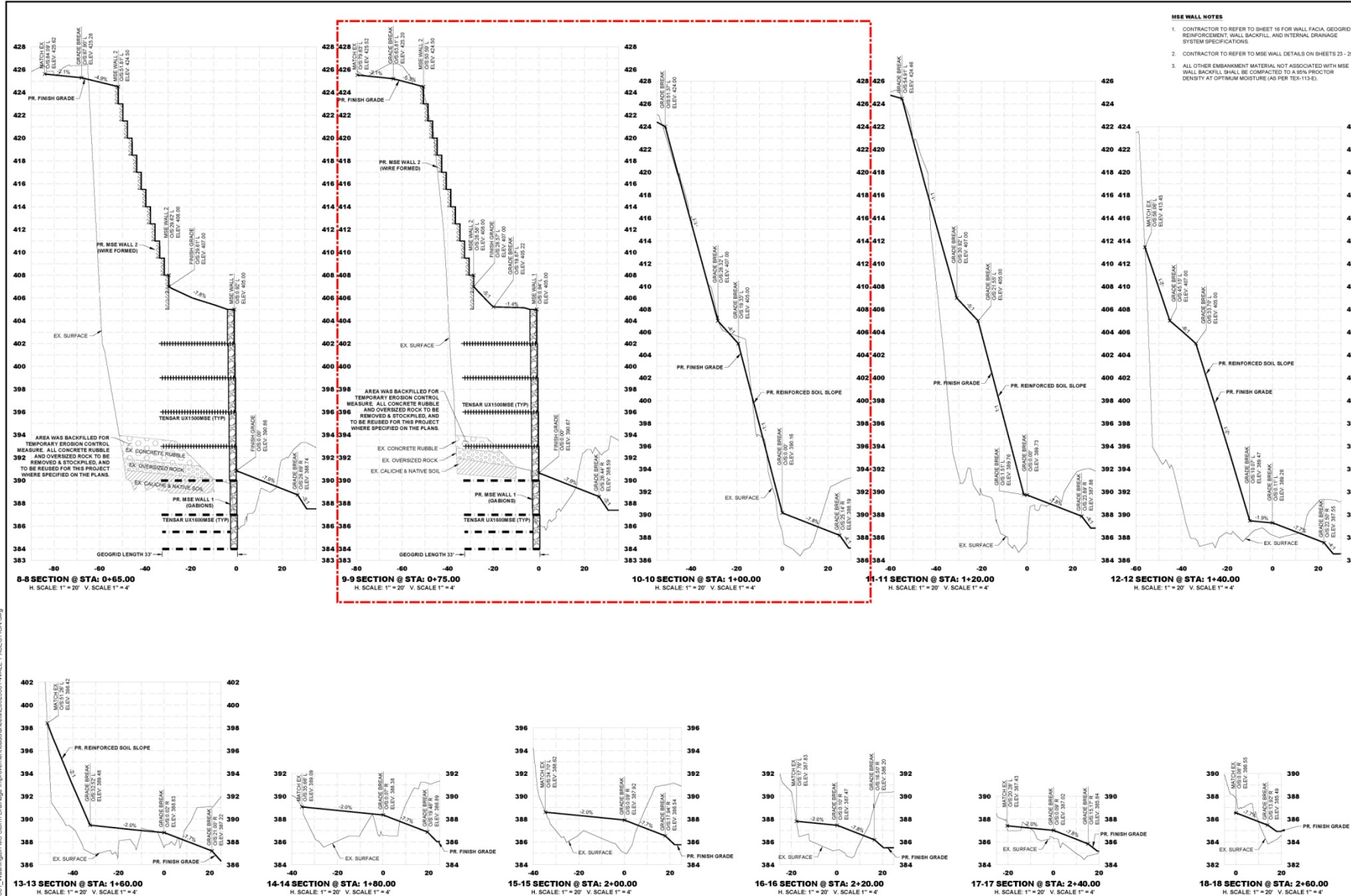
JOC 014-2019
EROSION CONTROL & RESTORATION AT
WASHINGTON MIDDLE SCHOOL
OVERALL PROPOSED PLAN

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4
SHEET
4 OF 28

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S:\data\Proj_2019\02\3501_Washington MS Storm Drainage Improvement\Drawings\02\3501-WALL_1\SECTION.dwg



- MSE WALL NOTES**
- CONTRACTOR TO REFER TO SHEET 18 FOR WALL FACIA, GEGRID REINFORCEMENT, WALL BACKFILL, AND INTERNAL DRAINAGE SYSTEM SPECIFICATIONS.
 - CONTRACTOR TO REFER TO MSE WALL DETAILS ON SHEETS 23 - 25.
 - ALL OTHER EMBANKMENT MATERIAL NOT ASSOCIATED WITH MSE WALL BACKFILL SHALL BE COMPACTED TO A 95% PROCTOR DENSITY AT OPTIMUM MOISTURE (AS PER TEX-113-E).

PROJECT NO.	E0623501
PROJECT NAME	STORM DRAINAGE IMPROVEMENT
DATE	7/13/2020 10:14 AM
STATUS	95% SET
DESIGNED BY	JEFFREY P. PUGH
CHECKED BY	JEFFREY P. PUGH
FILE	02\3501-WALL_1\SECTION.dwg
DATE	7/13/20

CEC
 CIVIL ENGINEERING CONSULTANTS
 7100 N. University Avenue, Suite 201
 TEL: 956-729-7944 FAX: 956-729-7854
 TIRP # 12-214 TIRP # 10410-00

JOC 014-2019
EROSION CONTROL & RESTORATION AT
WASHINGTON MIDDLE SCHOOL
MSE WALL 1 CROSS SECTIONS - 3 OF 3

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10
 SHEET
 10 OF 28

LEGEND - EXISTING	
BUILDING LINE	
CURB & GUTTER	
CONCRETE RUBBLE	
CONCRETE FLATWORK (RIPRAP)	
ASPHALT PAVEMENT	
CONTOUR (MAJOR)	450
CONTOUR (MINOR)	448
OVERHEAD ELECTRICAL LINE	CHE
FENCE LINE	
FLOWLINE	
STORM DRAIN LINE	SD 72"
PROPERTY LINE	
POWER POLE	
SERVICE POLE	

LEGEND - PROPOSED	
GABION WALL	
WIRE-FORMED WALL	
CONCRETE RUBBLE	
CONCRETE FLATWORK (RIPRAP)	
CALICHE	
CONTOUR (MAJOR)	450
CONTOUR (MINOR)	448
SLOPE - GRADE	2.0%
SLOPE - RATIO	3:1
POST & CABLE FENCE LINE	
FLOWLINE	
STORM DRAIN LINE	SD 72"
GRADE BREAK	
STORM DRAIN MANHOLE	

GOVERNING SPECIFICATIONS

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- TxDOT - STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MAINTENANCE OF HIGHWAYS, STREETS, AND BRIDGES - LATEST REVISION

UTILITY DEPARTMENTS LAREDO, TEXAS

WATER DISTRIBUTION AND SANITARY SEWER PLUMBING SERVICES
LAREDO WATER UTILITIES DEPARTMENT
(956) 721-2000

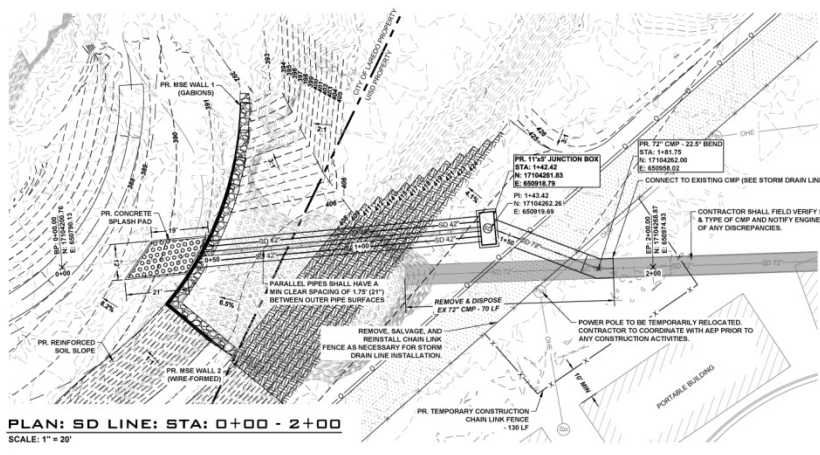
ELECTRIC COMPANY
MAIN OFFICE
A. E. P.
(956) 721-3169

TELEPHONE COMPANY
A.T.
(956) 727-6749

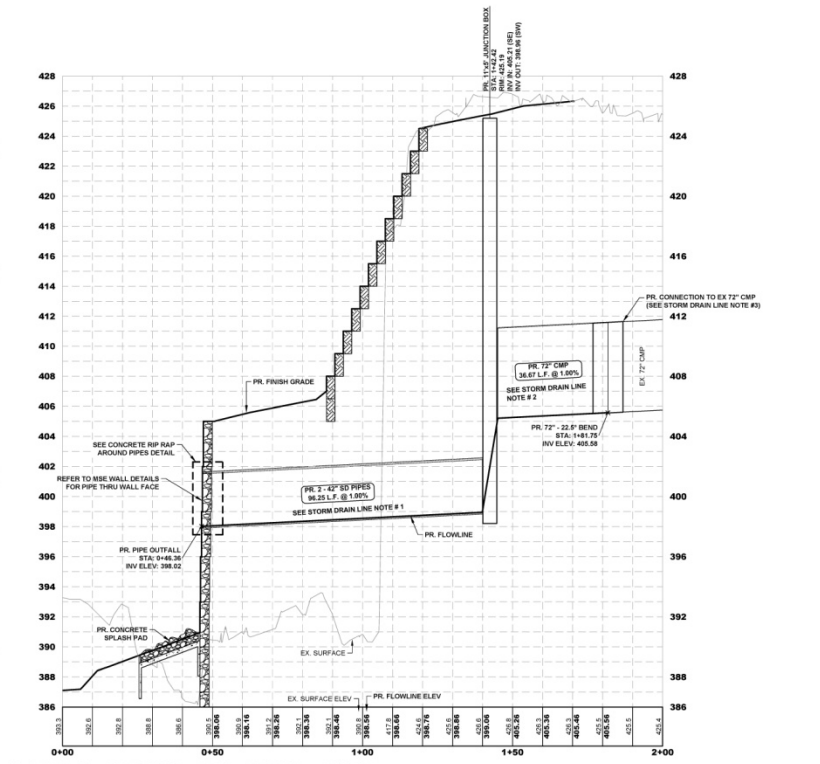
CABLE COMPANY
THE HANSEN CABLE
(956) 721-0600

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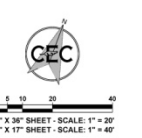
811
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PLAN: SD LINE: STA: 0+00 - 2+00
SCALE: 1" = 20'

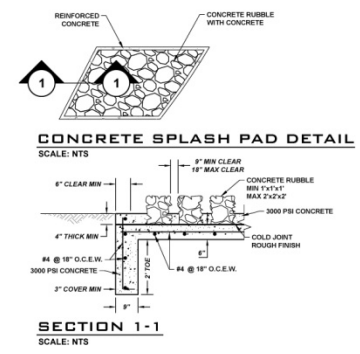


PROFILE: SD LINE: STA: 0+00 - 2+00
HORIZONTAL: 1" = 20' - VERTICAL: 1" = 4'

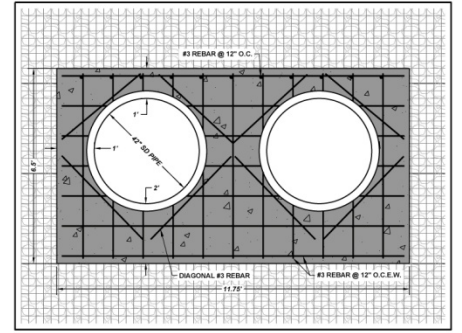


- GENERAL NOTES:**
- CONTRACTOR TO COORDINATE WITH THE CITY OF LAREDO AND USE OR HOW TO ADDRESS ANY RUNOFF FROM THE EXISTING STORM DRAIN SYSTEM DURING CONSTRUCTION ACTIVITIES.
- STORM DRAIN LINE NOTES:**
- 42" PIPES SHALL BE:
 - HDPE ADS N-12 CLASS 1 OR APPROVED EQUAL.
 - POLYMER COATED ULTRA FLO CORRUGATED METAL (16 GA) OR APPROVED EQUAL.
 - 72" CORRUGATED METAL PIPE (CMP) SHALL BE POLYMER COATED ULTRA FLO PIPE (14 GA) OR APPROVED EQUAL. TRENCH AND BACKFILL AS PER MANUFACTURER SPECIFICATIONS.
 - THE CONTRACTOR SHALL CUT THE EXISTING 72" CMP SQUARE, OR SHALL REMOVE THE PIPE BACK TO THE NEAREST JOINT SO THE PIPE HAS RE-ROLLED ENDS FOR THE PIPE TO MAKE A POSITIVE CONNECTION. IF THE PIPE IS CUT SQUARE, A FLAT BAND WITH A GOM GASKET SHALL BE INSTALLED TO PREVENT THE SOIL FROM GETTING INTO THE PIPE AT THE CUT SECTION OR CHE. BAND & GASKET INSTALLATION AS PER MANUFACTURER SPECIFICATIONS.
 - IF THE CMP POLYMER COAT IS DAMAGED DURING TRANSPORTATION OR INSTALLATION, THE CONTRACTOR SHALL APPLY A BITUMINOUS OR MASTIC TYPE PROTECTIVE COATING MATERIAL THAT MEETS ASTM STANDARDS. PROTECTIVE COAT APPLICATION SHALL FOLLOW ASTM A762 STANDARD.

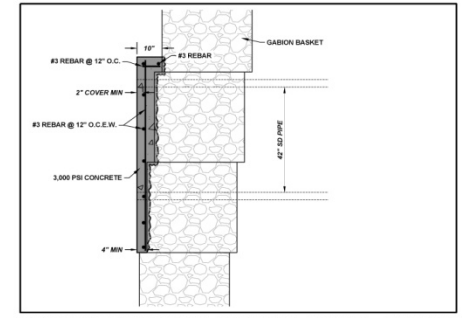
- CONCRETE SPLASH PAD NOTES:**
- CONCRETE SHALL FOLLOW THE CITY OF LAREDO SPECIFICATIONS.
 - CONCRETE TOSE DEPTH SHALL BE AS SHOWN. TOE SHALL BE INSTALLED ALL AROUND THE PERIMETER.



SECTION 1-1
SCALE: NTS



CONCRETE RIP RAP AROUND PIPES - DETAIL
SCALE: NTS



CONCRETE RIP RAP AROUND PIPES - SECTION
SCALE: NTS

PROJECT	E0623501	
PROJECT DATE/TIME	7/20/2020 1:45 PM	
STATUS	95% SET	
DRAWN BY	PREPARED BY	
NO.	DATE	REVISION DESCRIPTION
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CIVIL ENGINEERING CONSULTANTS
7109 N. Industrial Avenue, Suite 201
Laredo, TX 78504
TEL: 956-729-7944 FAX: 956-729-7864
TYPE # 72514 TRS # 10041000

JOC 014-2019
EROSION CONTROL & RESTORATION AT WASHINGTON MIDDLE SCHOOL
SD LINE PLAN & PROFILE

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18 OF 28

