

Construction Change Order

Project: City of Laredo - Eastern Chacon Creek Interceptor & Drainage Improvements

Contractor: AZAR Services, LLC
Balt Ramos
201 W. Hillside Road, Suite 23
Laredo, Texas 78041

C. O. No.: 4

Date: February 8, 2024

You are hereby requested to comply with the following changes from the contract plans and specifications. This document shall become an Amendment to the contract and all provisions of the contract shall apply hereto.

Item #	Description	Estimated Quantity	Unit	Unit Price	Decrease in Contract Price	Increase in Contract Price
Deduct:						
II. 19	Stamped Concrete Median	-1,105	SY	\$ 59.00	\$ (65,195.00)	
Add:						
II. 8	Concrete Retaining Wall 2'-5'	57	LF	\$ 190.00		\$ 10,830.00
II. 9	Concrete Retaining Wall 5'-13'	161	LF	\$ 250.00		\$ 40,250.00
II. 10	Concrete Channel Rip-Rap	702	SF	\$ 4.12		\$ 2,892.24
II. 15	Standup Curb	24	LF	\$ 14.00		\$ 336.00
43	57 Stone	391	CY	\$ 57.00		\$ 22,258.50
61 (New)	4" diameter Electrical Conduit	200	LF	\$ 19.50		\$ 3,900.00
62 (New)	Concrete Retaining Wall 2'-5' (FC16)	57	LF	\$ 57.00		\$ 3,249.00
61 (New)	Concrete Retaining Wall 5'-13' (FC16)	161	LF	\$ 75.00		\$ 12,075.00
					Total Decrease	Total Increase
					\$ (65,195.00)	\$ 95,790.74
					Net Change	\$30,595.74

JUSTIFICATION:

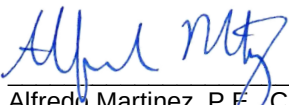
1. Additional 57 stone necessary below concrete lined channel to address groundwater surcharge from continuous rain events;
2. Additional conduit to prepare for future hike/ bike trail crossing at Century City bridge;
3. Retaining walls necessary to address current site conditions, maintain hydraulics, and protect as-built wastewater line (200 SF deduct of Concrete Rip-Rap);
4. Concrete rip rap (902 SF) at SS MH's #1.1 & 1.2 necessary to address erosion caused by 100 yr storm (8/22) and protect integrity of manholes;

Original Contract Amount	4,361,657.20
Change Order 1	(345,270.00)
Change Order 2	\$0.00
Change Order 3	82,642.25
This Change Order	30,595.74
Total Contract Amount:	4,129,625.19

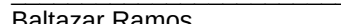
Original Contract Time	330 Working Days
Current Contract Time	
including previous C.O.'s . . .	525 Working Days
Additional Time this C.O. . . .	317 Working Days
Total Contract Time	842 Working Days

Recommended By:

Accepted By:


Alfredo Martinez, P.E., CFM
Crane Engineering Corp.

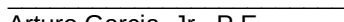
Date: 2/8/24


Baltazar Ramos
AZAR Services, LLC

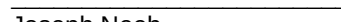
Date: _____

Approved By:

Approved By:


Arturo Garcia, Jr., P.E.
Utilities Director

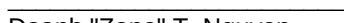
Date: _____


Joseph Neeb
City Manager

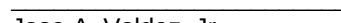
Date: _____

Approved as to Form:

Attest:


Doanh "Zone" T. Nguyen
Assistant City Attorney

Date: _____


Jose A. Valdez, Jr.
City Secretary

Date: _____

Eastern Chacon Creek Interceptor Drainage Improvements

Rain Events
Laredo, Texas
2021-2023

9/19/23

10/6/23

11/2/23

1/22/24

Upd. 2/8/24

Construction start date: 12/07/20

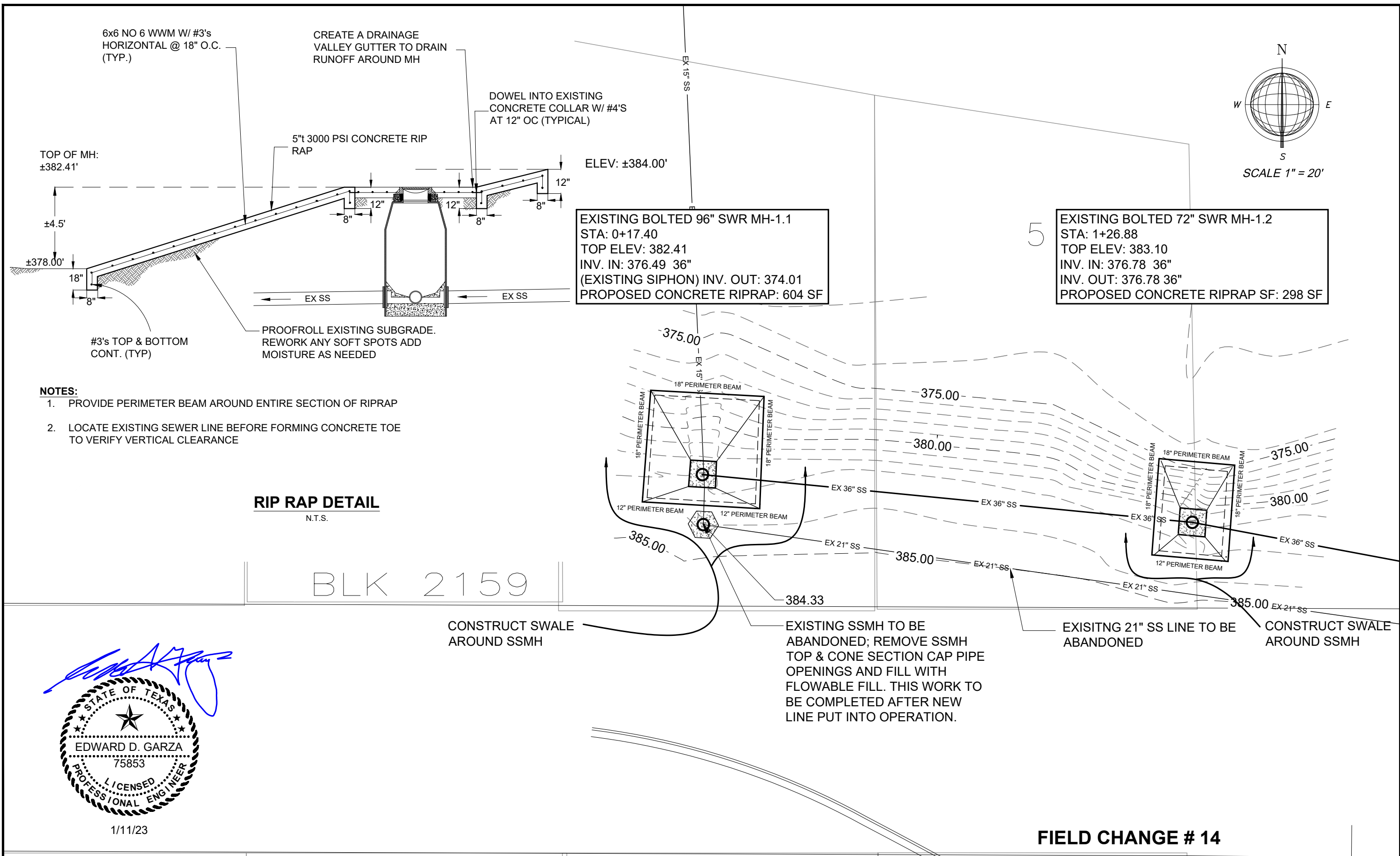
Date	Precipitation (inches)	Duration (Minutes)		Additional Time Based on Rain Computation
05/17/21	0.86	60.0		5
05/19/21	0.73	322.0		5
06/01/21	0.80	113.0		5
07/06/21	2.40	565.0		10
07/08/21	1.10	563.0		8
07/10/21	1.20	120.0		8
08/02/21	0.57	263.0		5
08/06/21	1.71	275.0		8
09/22/21	2.58	192.0		10
10/13/21	0.58	329.0		5
11/03/21	0.63	516.0	<i>*Light rain continued though 8:05 a.m. 11/4/21</i>	5
04/25/22	1.30	429.0		8
05/23/22	1.60	75.0		8
05/24/22	2.77	469.0		10
			7/8/22 Cease and desist letter issued by USACE	
08/14/22	0.69	311.0		5
08/15/22	6.82	1343.0	<i>*100 Year Storm Event</i>	20
09/04/22	1.15	717.0		8
09/06/22	0.75	120.0		5
10/07/22	0.54	360.0		5
11/01/22	0.56	300.0		5
			2/13/23 Cease and desist letter issued by USACE	
04/23/23	3.04	101.0		15
05/13/23	0.56	62.0		5
05/18/23	1.46	14.0		8
05/28/23	1.52	263.0		8
06/08/23	0.62	98.0		5
08/22/23	3.98	169.0	<i>*Tropical Storm Harold</i>	15
09/15/23	3.06	74.0		15
10/05/23	2.00	131.0		8
11/12/23	0.88	29.0		5
29	46.46		Total Additional Days:	<u>232</u>
Storm Events	Total Precip. (inches)			

**Adding 317 WD to contract will extend
completion date to 5/3/24**

Notes:

(1) Table reflects rain of 0.5" or more;

(2) Data source: extremeweatherwatch.com; wunderground.com



1/11/23

STATE OF TEXAS
EDWARD D. GARZA
75853
LICENSED PROFESSIONAL ENGINEER

DATE: JANUARY 11, 2023
SCALE: 1" = 20'



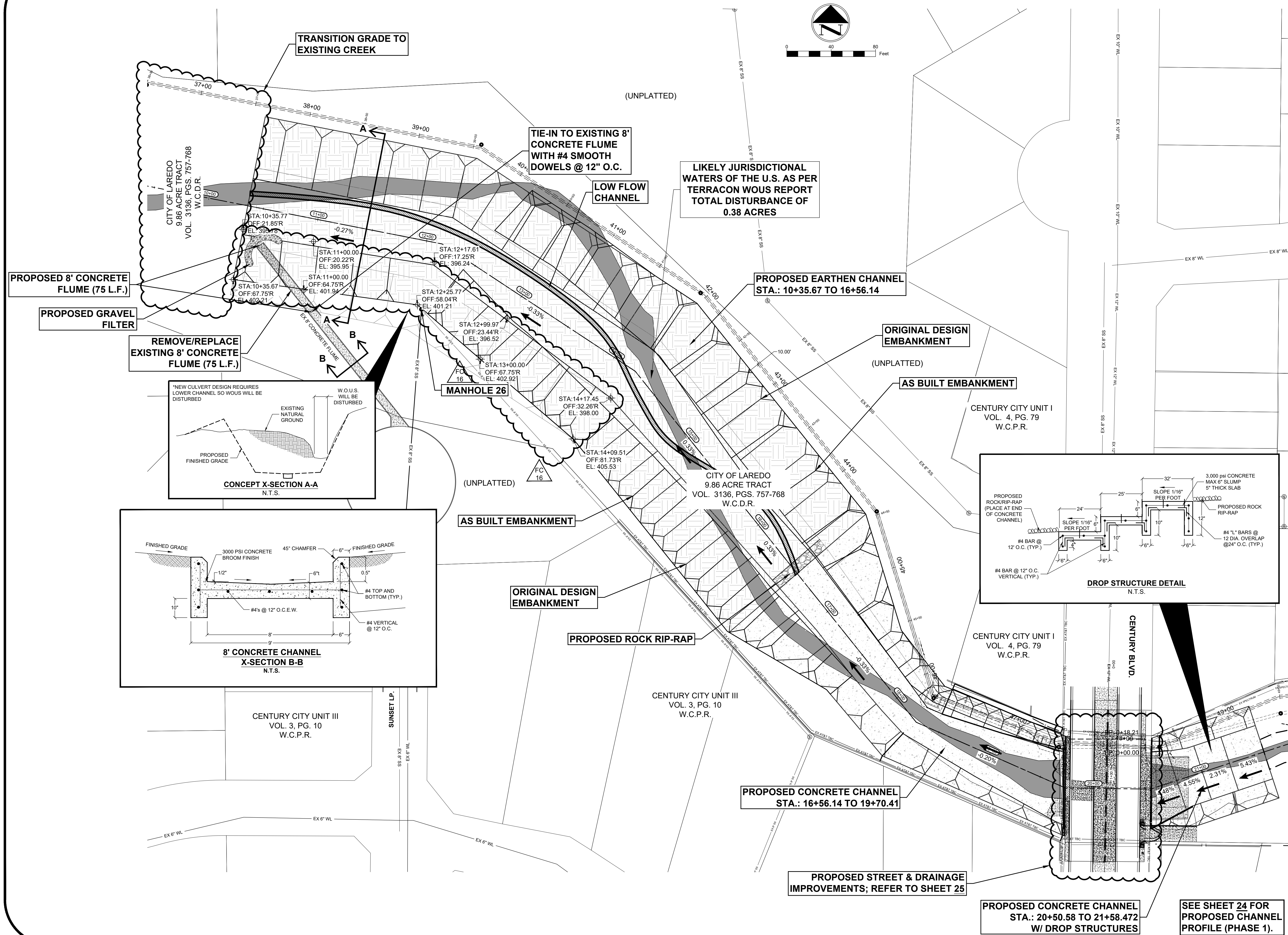
CRANE ENGINEERING CORP.
1310 JUNCTION DRIVE
LAREDO, TX 78041
FIRM REGISTRATION NO. F-3353

SUITE B
956-712-1996

Eastern Chacon Creek Interceptor

Sanitary Sewer Manhole Proposed
Rip Rap To Address August 2022
Rain Event

SHEET **C1**
OF **C1**



GENERAL NOTES

NOTE:
THIS PLAN IS ONLY UPDATING THE SOUTHERN EMBANKMENT OF THE EARTHEN CHANNEL FROM STATION 10+35.67 TO 14+09.51 AND PROVIDING MORE DETAILED INFORMATION ON THE 8' CONCRETE FLUME TO BE REMOVED AND REPLACED.

04-05-2023

No.	Revision/Issue	Date
16	FIELD CHANGE 16	03-14-23
17	ADDITIONAL DROP STRUCTURE DETAIL INFORMATION	07-23-20
18	ADDITIONAL DETAIL INFORMATION TO ADDRESS BIDDER QUESTIONS	07-10-20

FIRM NAME AND ADDRESS
CRANE ENGINEERING CORP.
1310 JUNCTION DRIVE SUITE B
LAREDO, TX 78041 956-712-1996
FIRM REGISTRATION NO. F-3353

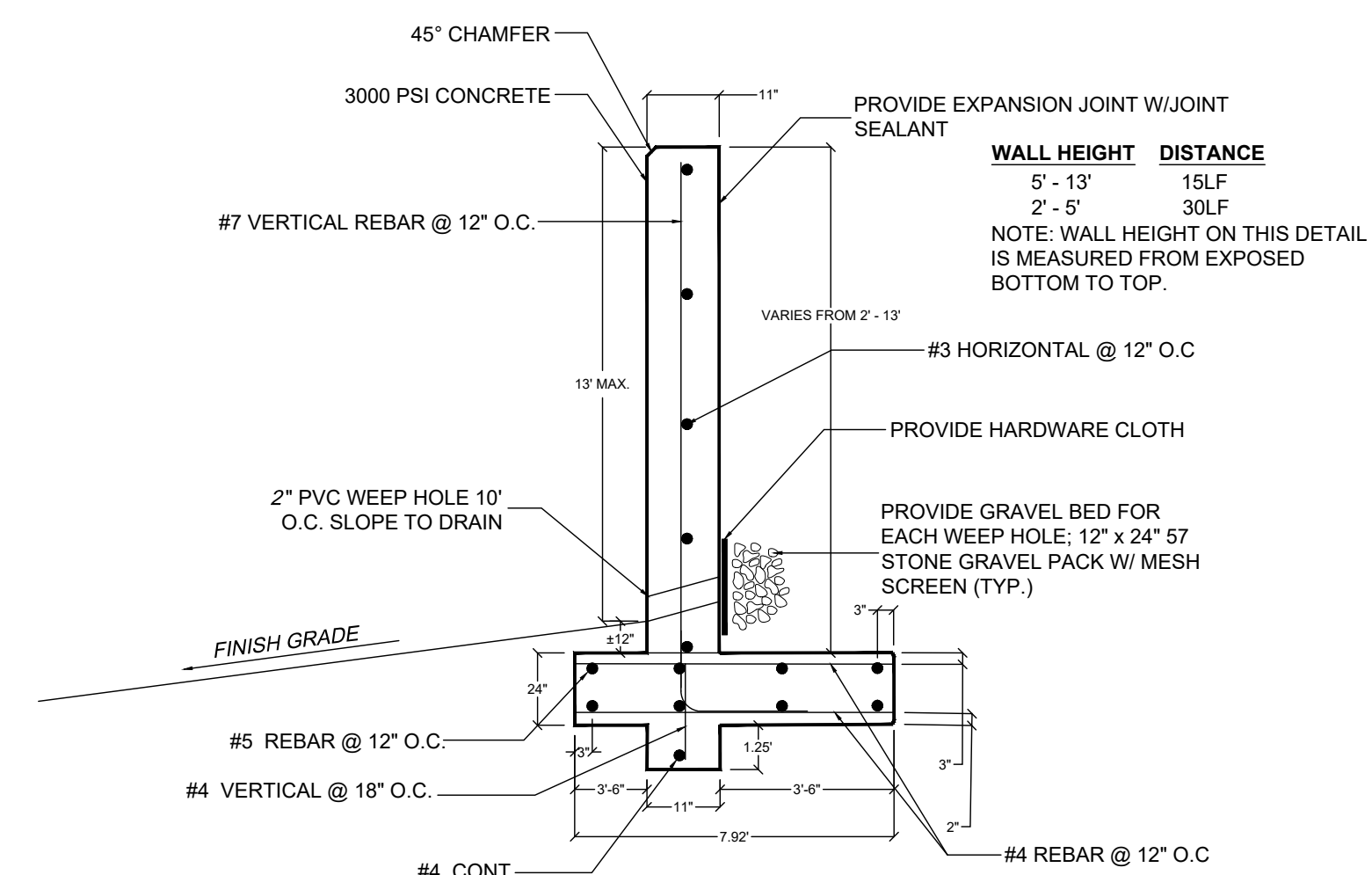
Project Name and Address
Eastern Chacon Creek Interceptor and Drainage Improvements

FIELD CHANGE #16
Sheet Title
PHASE 1-CHANNEL SITE IMPROVEMENTS PLAN

Date
03/14/2023

Sheet
23

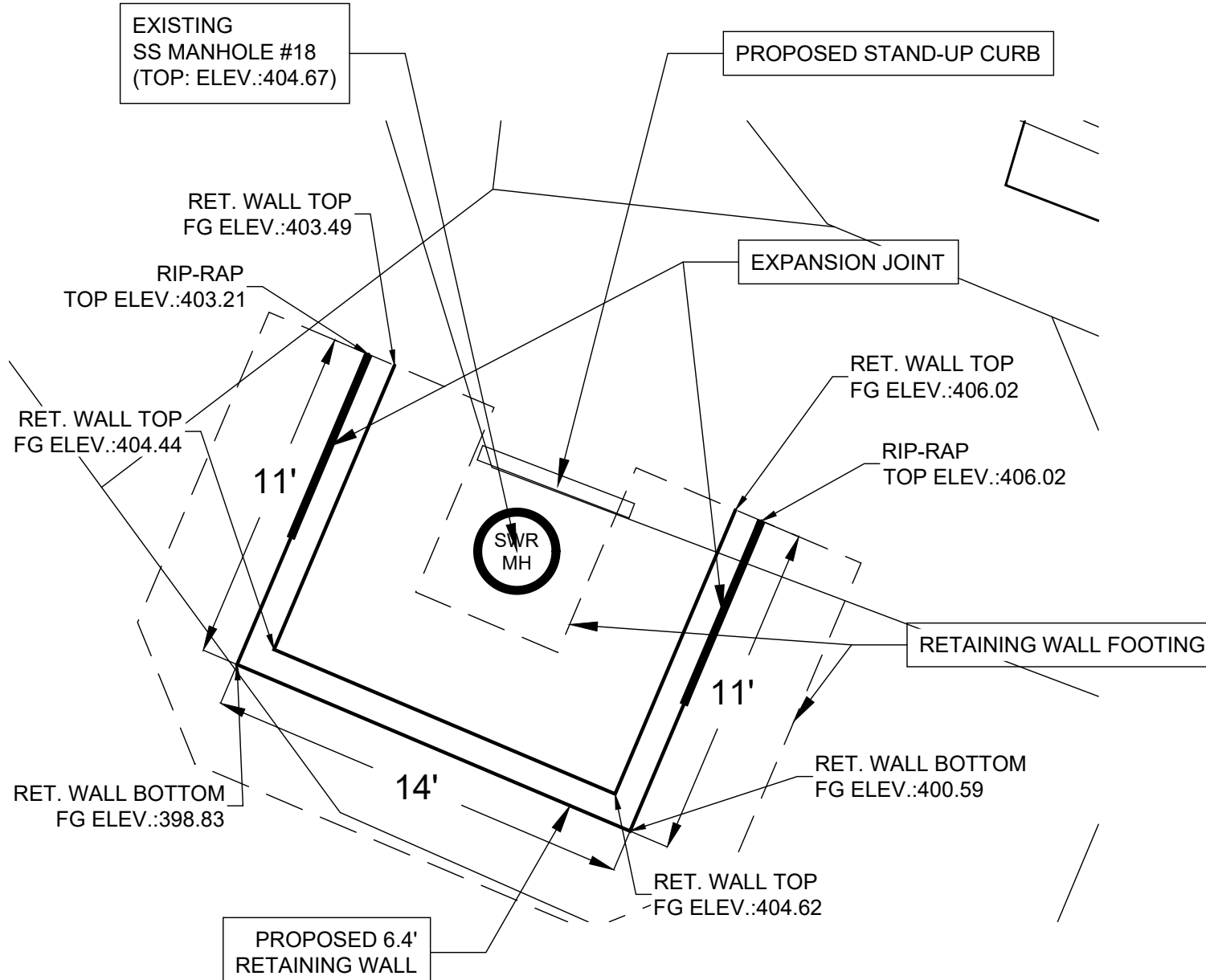
Scale
1"=40'



THIS DETAIL TAKEN FROM CONSTRUCTION PLAN SHEET # 32

- | | |
|--|--|
| Date
<div style="font-size: 1.2em; margin-top: 10px;">03/17/23</div> | Sheet
<div style="font-size: 2.5em; margin-top: 10px; text-align: center;">41</div> |
| Scale
<div style="font-size: 1.2em; margin-top: 10px; text-align: center;">1"=20'</div> | |

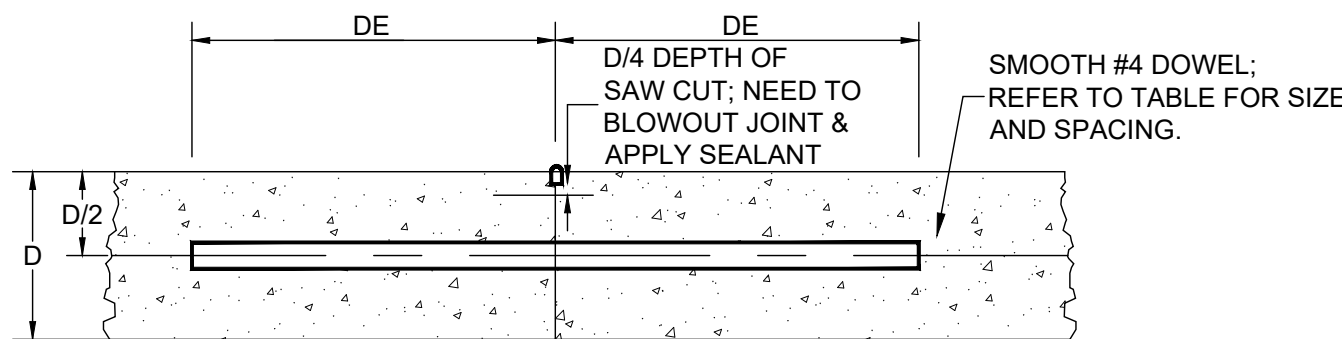
SSMH #18



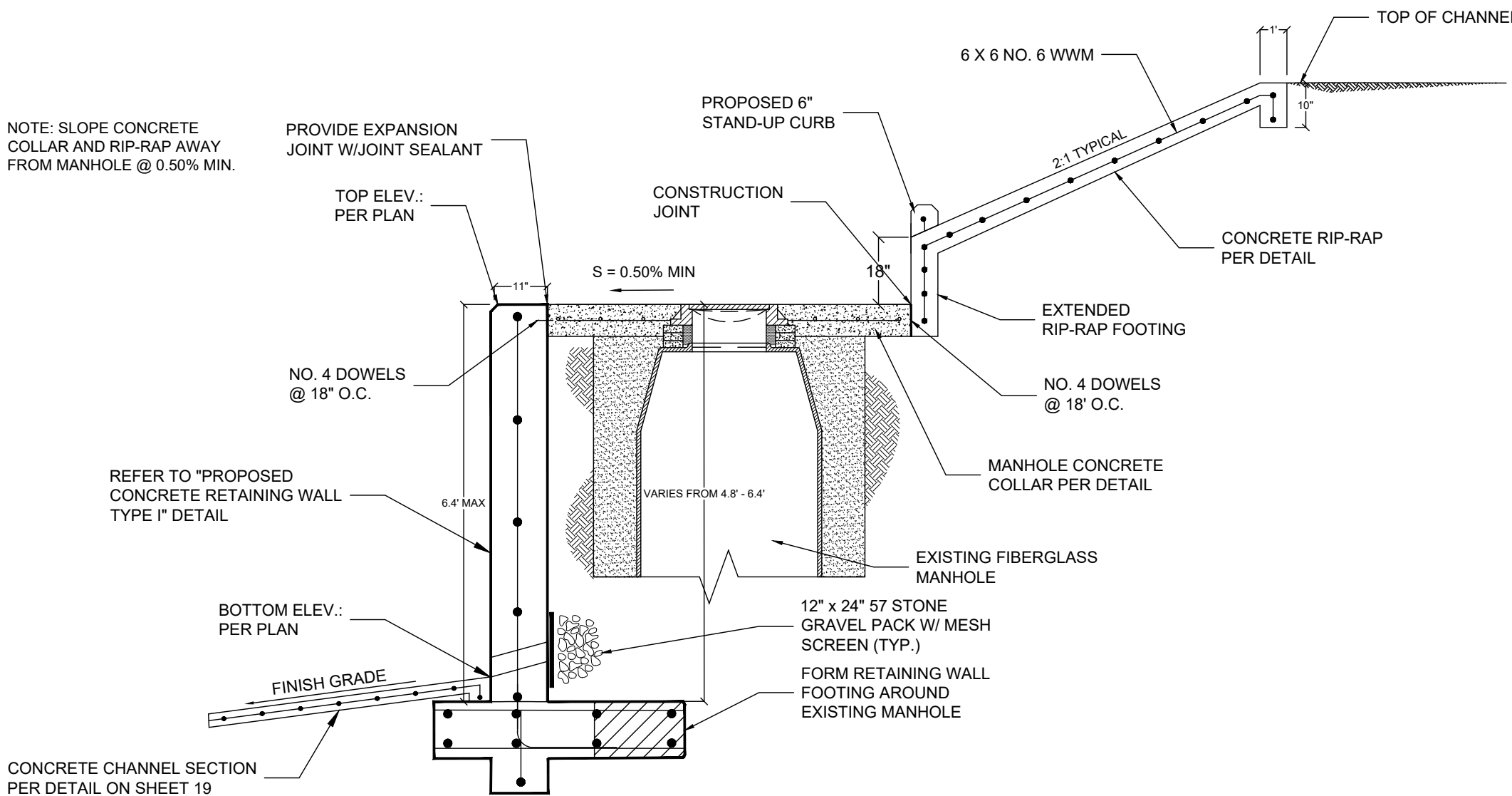
NOTES :

- 1) JOINT WIDTH, BETWEEN 1/10 TO 1/8 IN. TO REMAIN UNSEALED .
- 2) CUTS BETWEEN ¼ IN. TO 3/8 IN. TO BE SEALED WITH 890-SL JOINT SEALER.
- 3) CONSTRUCTION JOINTS TO BE USED AT END OF EACH CONCRETE POUR.

PAVEMENT THICKNESS	8"
DOWELS	1/2" Ø
DOWEL SPACING	18" O.C.
DOWEL LENGTH	16"
DOWEL EMBEDMENT (DE)	8"

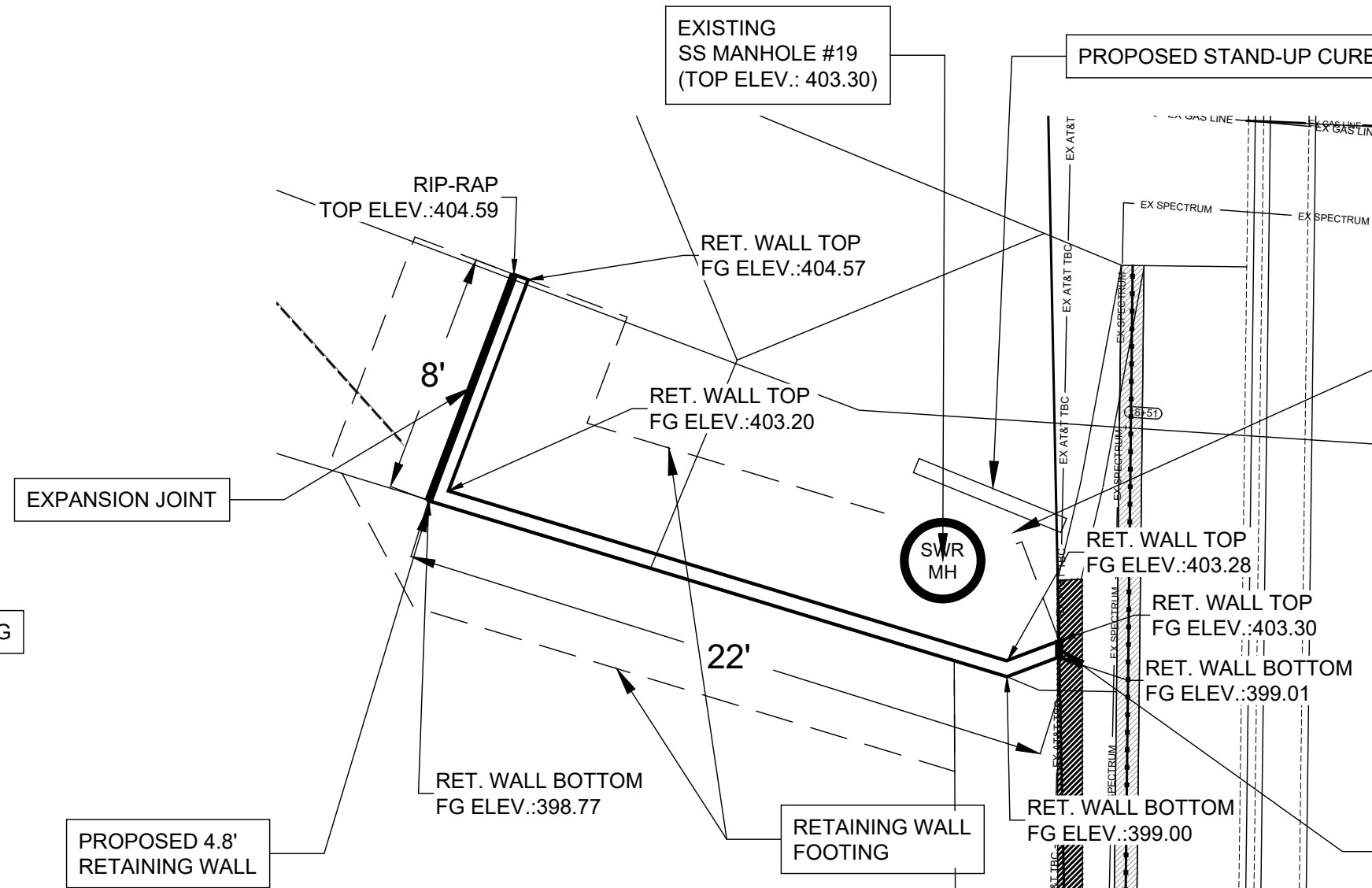


CONSTRUCTION JOINT
N.T.S.

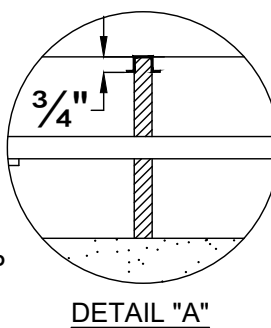


PROPOSED MANHOLE 20 RETAINING WALL, STAND-UP CURB, & CONCRETE RIP-RAP DETAIL
N.T.S.

SSMH #19

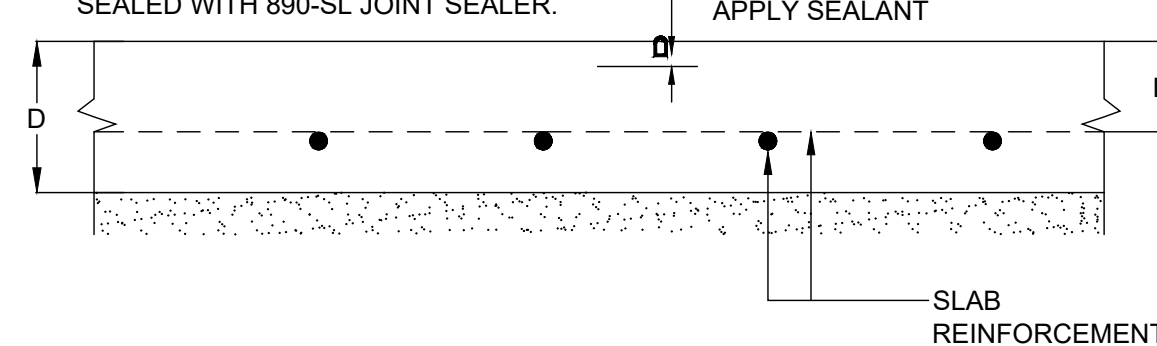


<i>PAVEMENT THICKNESS</i>	<i>MAX SPACING</i>
<i>4" - 4.5"</i>	<i>10</i>
<i>5" - 5.5"</i>	<i>12.5</i>
<i>6" OR GREATER</i>	<i>15</i>

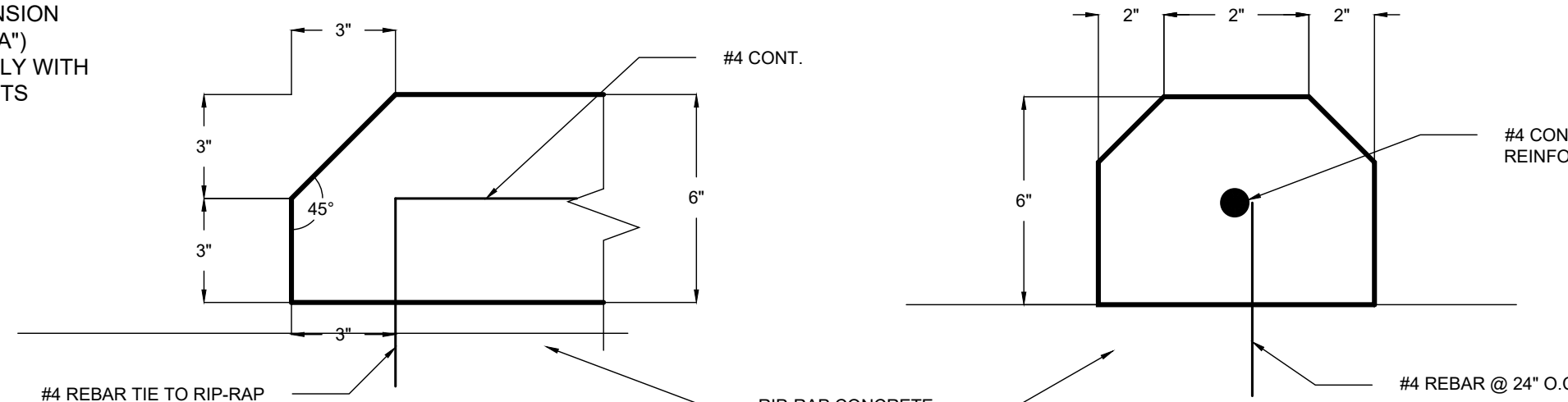


NOTES :
1) JOINT WIDTH, BETWEEN 1/10 TO 1/8 IN. TO REMAIN UNSEALED .

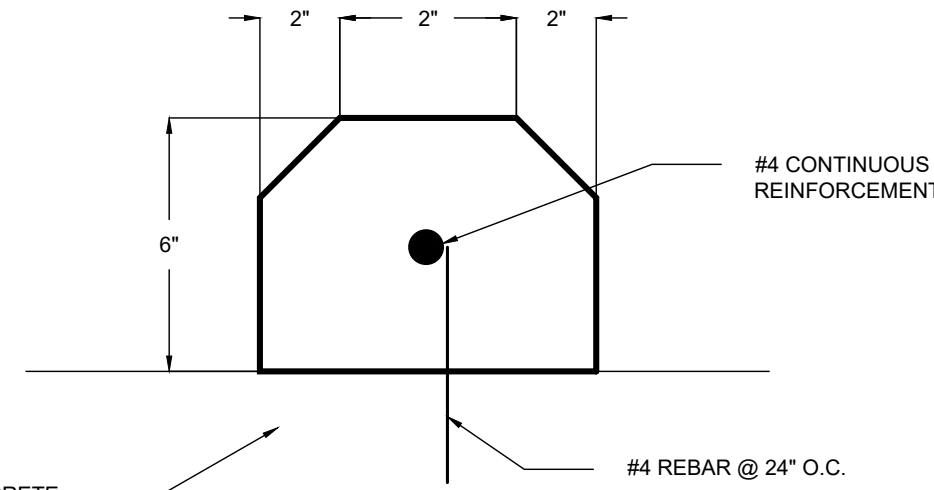
2) CUTS BETWEEN 1/4 IN. TO 3/8 IN. TO BE



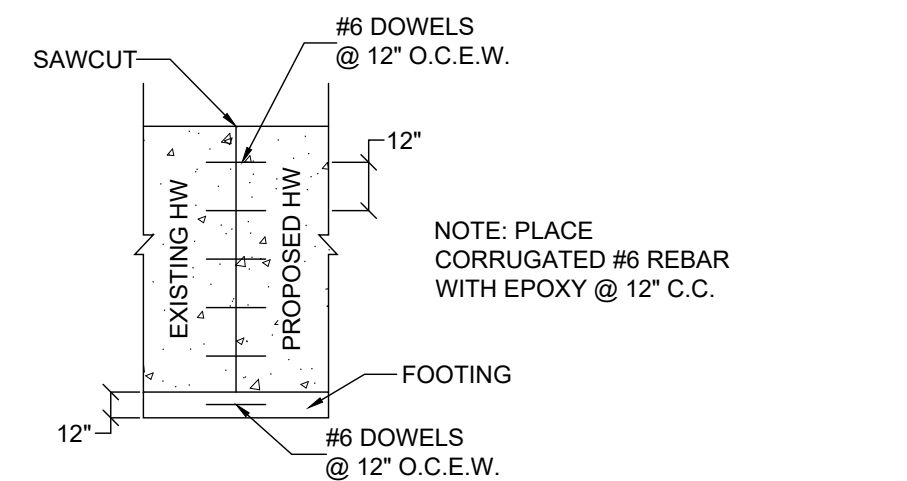
"SAW CUT" CONTRACTION JOINT
N.T.S.



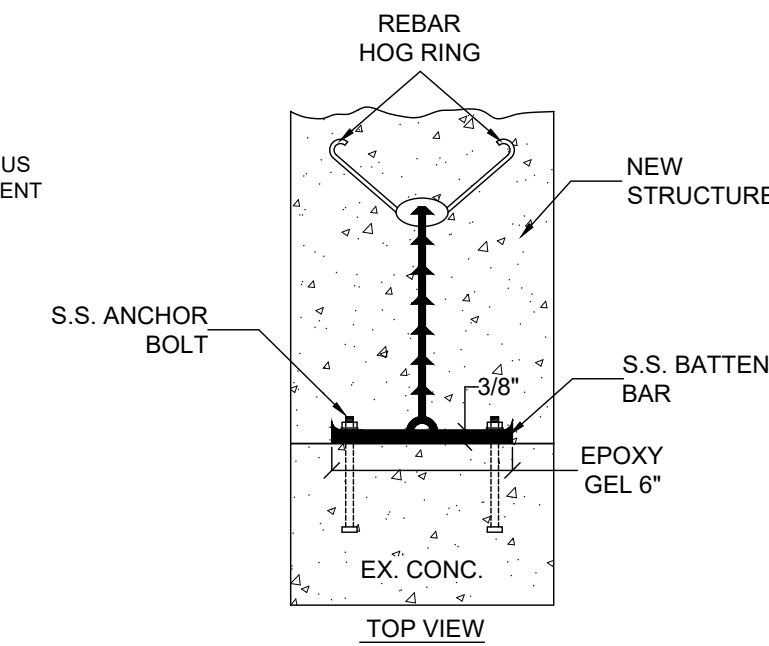
**STAND-UP CURB
TERMINATION DETAIL**
N.T.S.



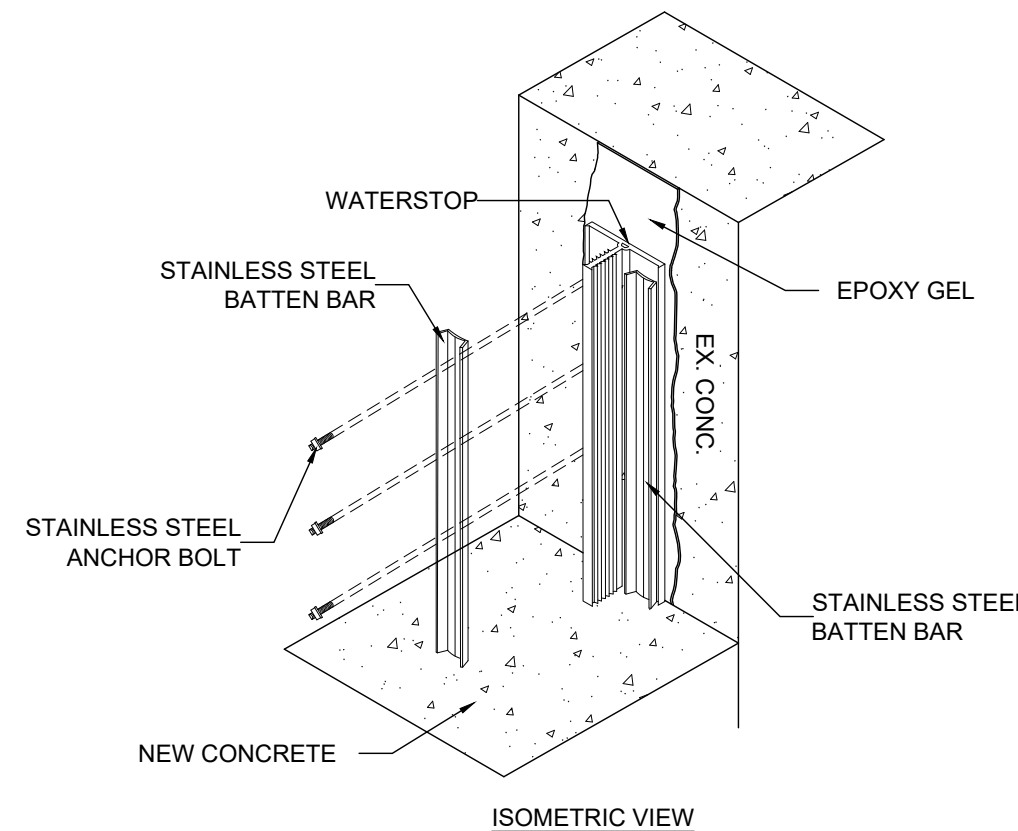
STAND-UP CURB DETAIL
N.T.S.



**EXISTING HEADWALL
& PROPOSED HEADWALL**
N.T.S.



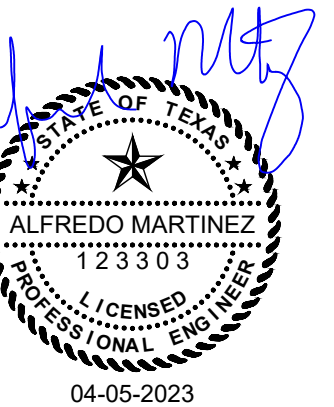
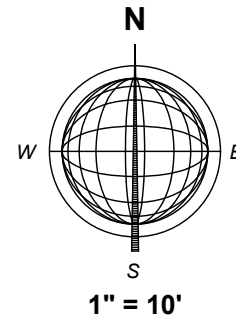
EXISTING RETAINING WALL AND NEW
CONSTRUCTION JOINT WITH GREENSTREAK (609)
PVC RETRO-FIT WATERSTOP SYSTEM
N.T.S.



**EXISTING RETAINING WALL AND NEW
CONSTRUCTION JOINT WITH GREENSTREAK (609)
PVC RETRO-FIT WATERSTOP SYSTEM**
N.T.S.

GENERAL NOTES

REFER TO SHEET_ FOR



No.	Revision/Issue	Date

FIRM NAME AND ADDRESS
CRANE ENGINEERING CORP.
 1310 JUNCTION DRIVE SUITE B
 LAREDO, TX 78041 956-712-1996
 FIRM REGISTRATION NO. F-3353



Project Name and Address
Eastern Chacon Creek Interceptor
Laredo, Tx.

Sheet Title

SSMH 18, 19, & 20 BLOWN-UP VIEW

Date 3/17/23

Scale AS NOTED

42