

EL PASO COUNTY, STATE OF COLORADO

EXISTING PRAIRIE GRASS



**NOTE:** ALL STORM SEWER PIPES, CONNECTIONS AND MANHOLES, ETC. THAT ARE INSTALLED WITHIN THE PUBLIC RIGHT OF WAY SHALL BE CONSIDERED "PUBLIC" AND SHALL BE OWNED AND MAINTAINED BY EL PASO COUNTY. ALL STORM SEWER PIPES, CONNECTIONS, MANHOLES AND OUTLETS THAT ARE INSTALLED OUTSIDE OF THE PUBLIC RIGHT OF WAY SHALL BE CONSIDERED "PRIVATE" AND SHALL BE OWNED AND MAINTAINED BY THE STERLING RANCH METROPOLITAN DISTRICT.

SHEET 1	TITLE SHEET
SHEET 2	FULL SPECTRUM DET. POND SITE PLAN
SHEET 3	FULL SPECTRUM DET. POND DETAILS
SHEET 4	FULL SPECTRUM DET. POND DETAILS
SHEET 5	STORM PLAN AND PROFILE
SHEET 6	STORM DETAILS

THIS GRADING AND EROSION CONTROL PLAN WAS PREPARED UNDER MY DIRECTION AND SUPERVISION AND IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. SAID PLAN HAS BEEN PREPARED ACCORDING TO THE CRITERIA ESTABLISHED BY THE COUNTY FOR GRADING AND EROSION CONTROL PLANS. I ACCEPT RESPONSIBILITY FOR ANY LIABILITY CAUSED BY NEGLIGENT ACTS, ERRORS OR OMISSIONS ON MY PART IN PREPARING THIS PLAN.

DATE \_\_\_\_\_

I, THE OWNER/DEVELOPER HAVE READ AND WILL COMPLY WITH ALL OF THE REQUIREMENTS SPECIFIED IN THESE DETAILED PLANS AND SPECIFICATIONS.

NAME: \_\_\_\_\_ DATE: \_\_\_\_\_

BUSINESS NAME:

ADDRESS:

COUNTY PLAN REVIEW IS PROVIDED ONLY FOR GENERAL CONFORMANCE WITH COUNTY DESIGN CRITERIA. THE COUNTY IS NOT RESPONSIBLE FOR THE ACCURACY AND ADEQUACY OF THE DESIGN, DIMENSIONS, AND/OR ELEVATIONS WHICH SHALL BE CONFIRMED AT THE JOB SITE. THE COUNTY THROUGH THE APPROVAL OF THIS DOCUMENT ASSUMES NO RESPONSIBILITY FOR COMPLETENESS AND/OR ACCURACY OF THIS DOCUMENT.

FILED IN ACCORDANCE WITH THE REQUIREMENTS OF THE EL PASO COUNTY LAND DEVELOPMENT CODE, DRAINAGE CRITERIA, AND ENGINEERING CRITERIA MANUAL AS AMENDED.

IN ACCORDANCE WITH ECM SECTION 1.12, THESE CONSTRUCTION DOCUMENTS WILL BE VALID FOR CONSTRUCTION FOR A PERIOD OF 2 YEARS FROM THE DATE SIGNED BY THE EL PASO COUNTY ENGINEER. IF CONSTRUCTION HAS NOT STARTED WITHIN THOSE 2 YEARS, THE PLANS WILL NEED TO BE RESUBMITTED FOR APPROVAL, INCLUDING PAYMENT OF REVIEW FEES AT THE PLANNING AND COMMUNITY DEVELOPMENT DIRECTOR'S DISCRETION.

JENNIFER IRVINE, P.E. DATE  
COUNTY ENGINEER / ECM ADMINISTRATOR

EL PASO COUNTY FILE NO. PPR 20-000

DWIRE YARD

## STORMWATER & DETENTION POND PLANS

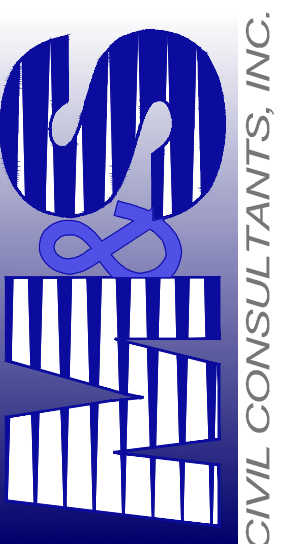
DATE: 01/24/2020

SCALE:  
HORIZONTAL:

3-117	
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JECT NO.

1102 E. PIKES PEAK AVE, SUITE 500  
COLORADO SPRINGS, CO 80903  
PHONE: 719.955.5485



FOR AND ON  
BEHALF OF  
M&S CIVIL  
CONSULTANTS,  
INC.

VIRGIL A. SANCHEZ, COLORADO P.E. NO. 37160

[illegible]

THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.

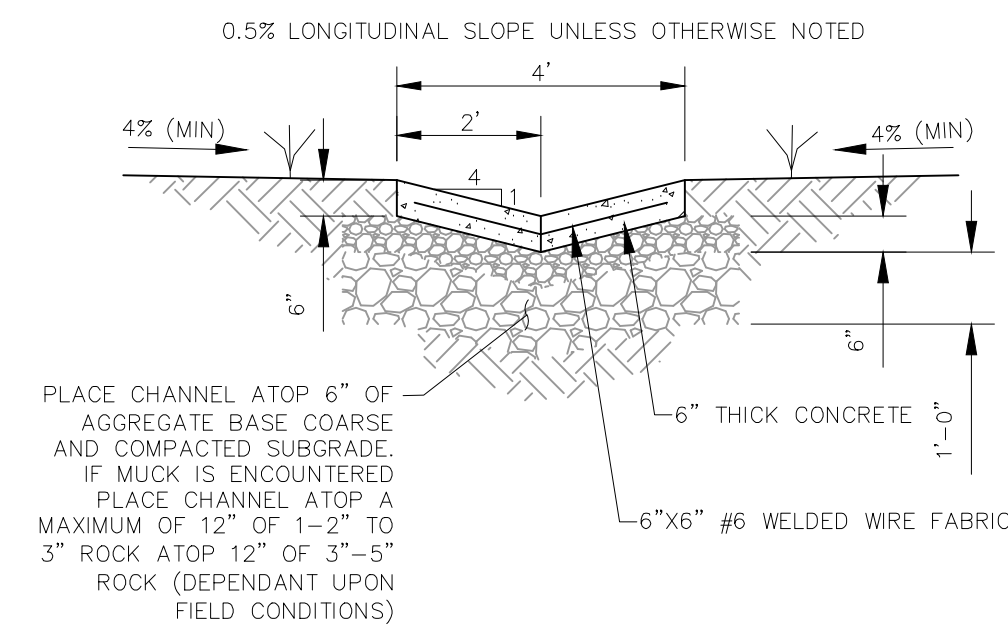
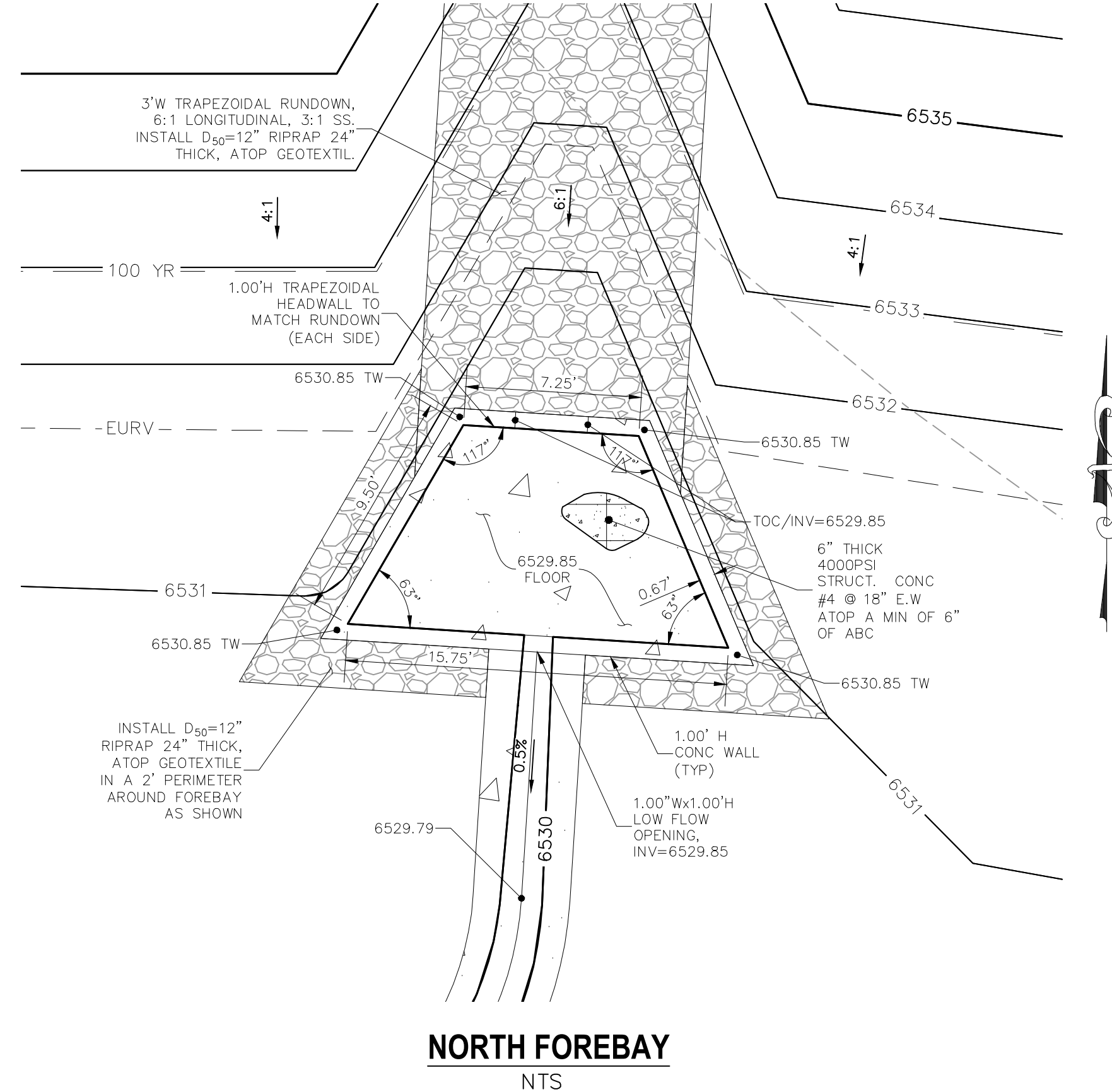
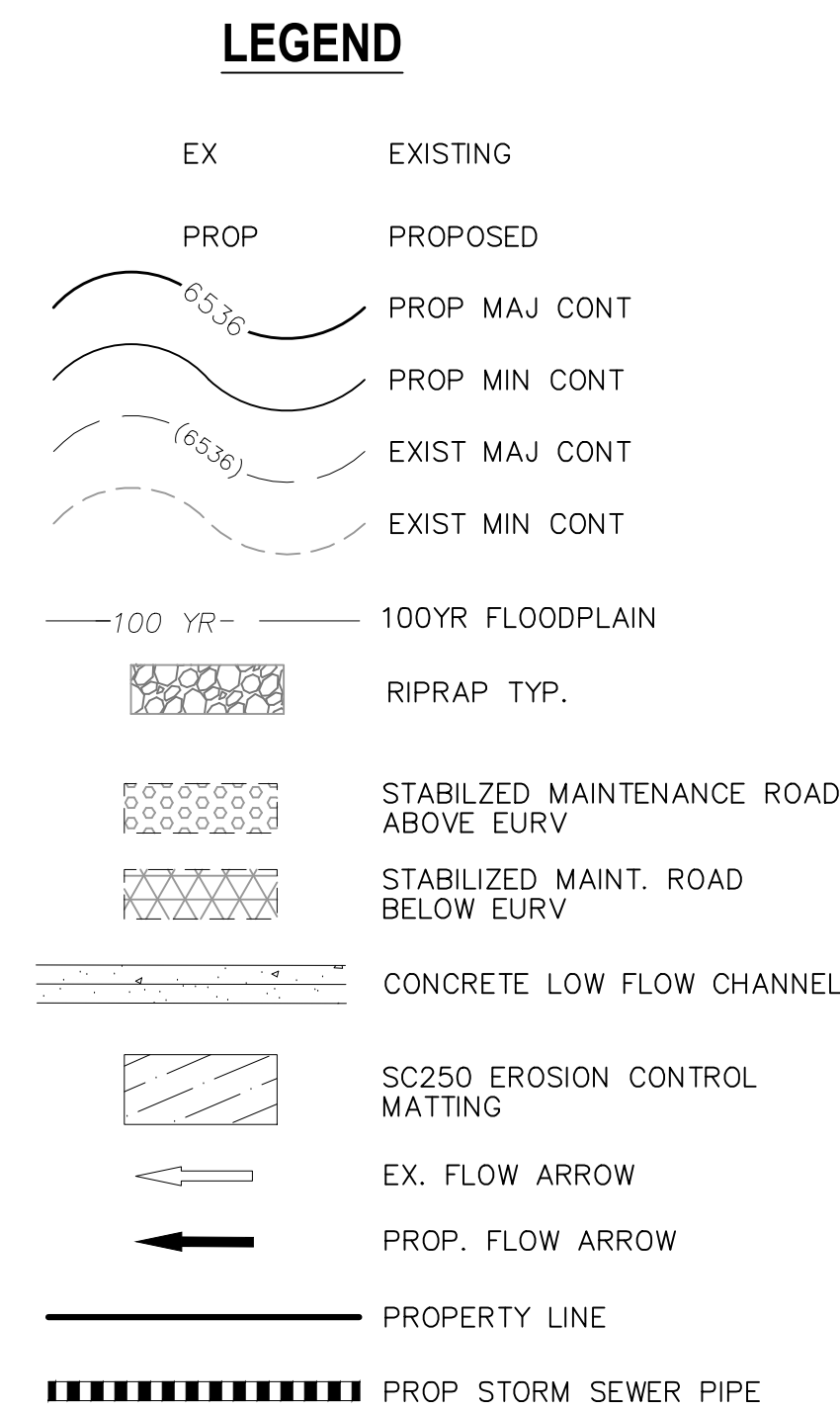
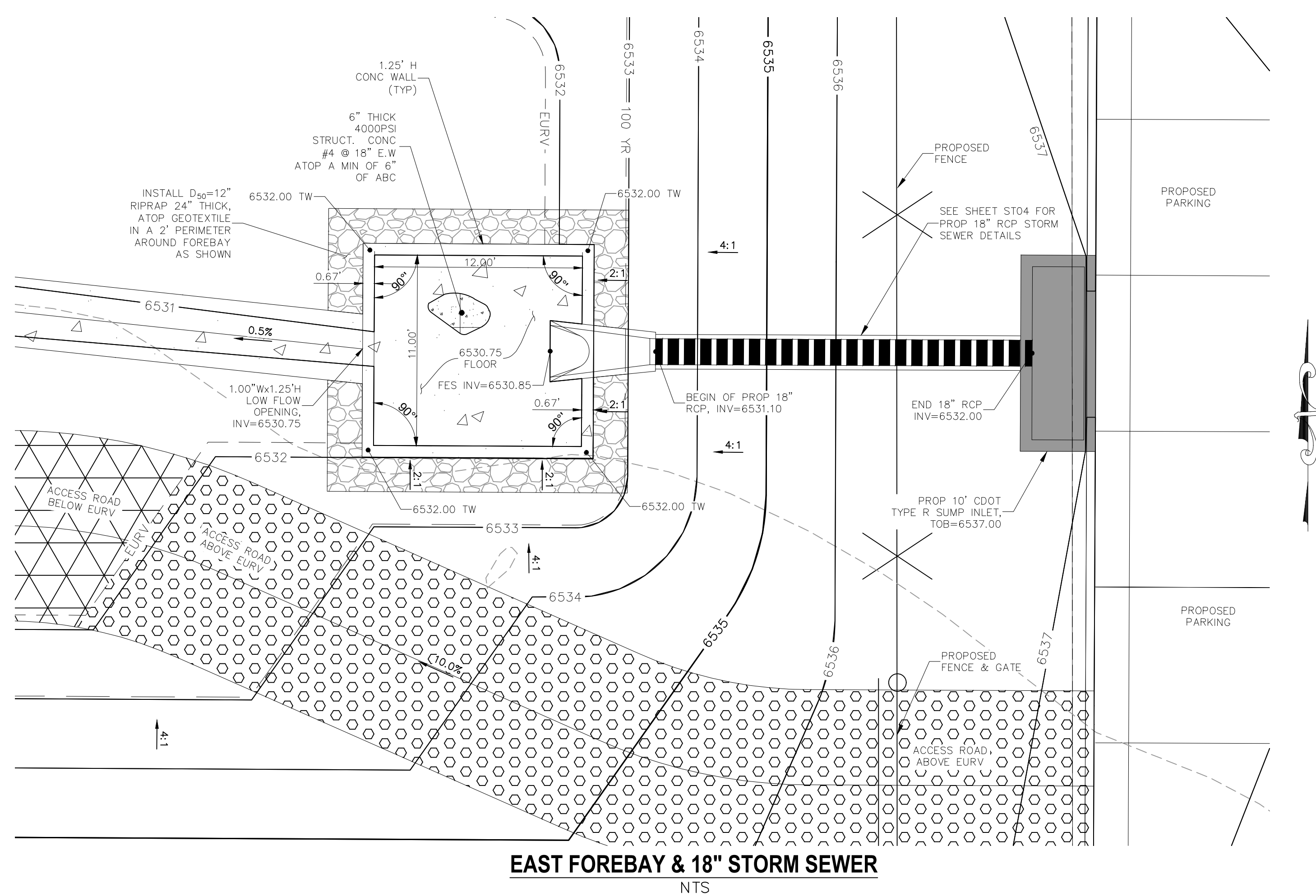
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**CAUTION**



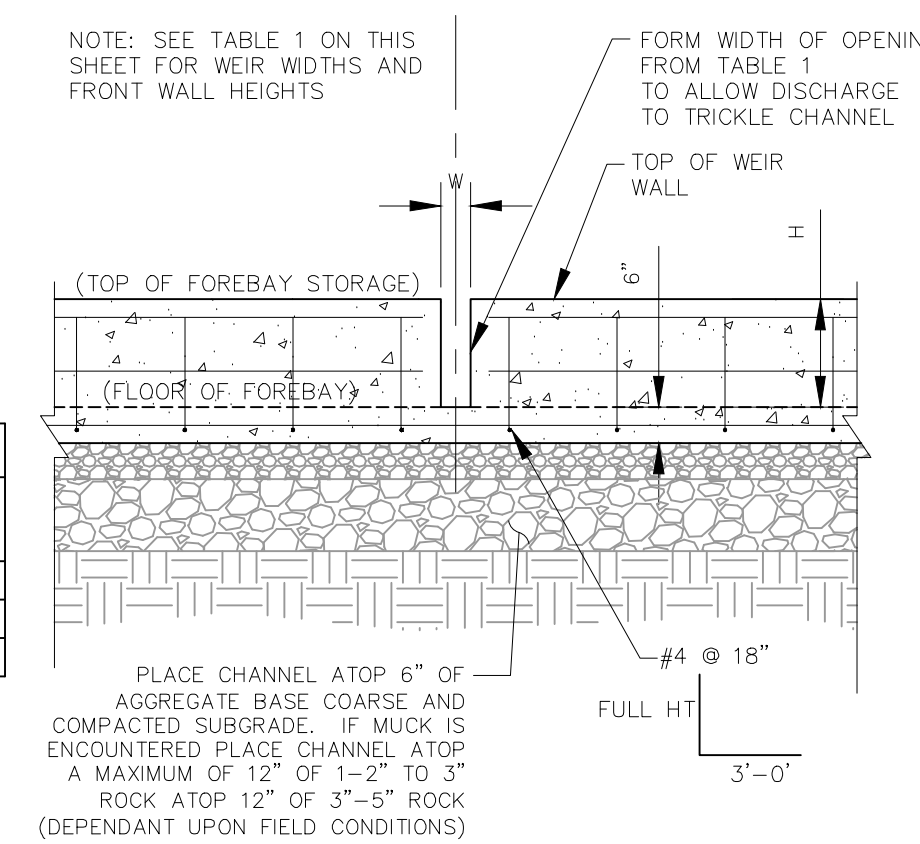






**LOW FLOW CHANNEL**  
**TYPICAL SECTION**  
NOT TO SCALE

FOREBAY	WIDTH (W)	HEIGHT (H)
WEST	1.75" IN	1.25' FT
NORTH	1.00" IN	1.00' FT
EAST	1.00" IN	1.25' FT



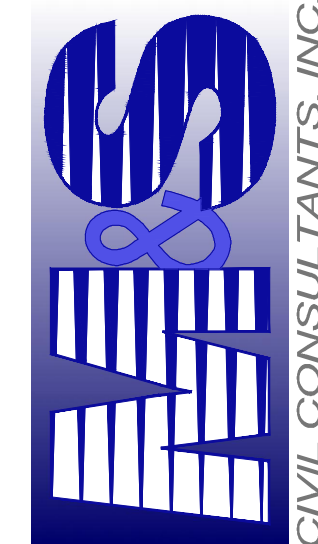
**TYPICAL FOREBAY FRONT WALL W/NOTCH**  
NOT TO SCALE

FOR BURIED UTILITY INFORMATION  
48 HRS BEFORE YOU DIG  
CALL 1-800-922-1987

FOR LOCATING  
& MARKING  
GAS,  
ELECTRIC,  
WATER &  
TELEPHONE  
LINES

DWIRE STORAGE YARD		PROJECT NO. 43-117		SCALE:		DATE: 1/3/2020	
		DESIGNED BY: CMN		HORIZONTAL: N/A			
		DRAWN BY: CMN		VERTICAL: N/A			
		CHECKED BY: VAS				SHEET 3 OF 6	
						ST03	

20 BOULDER CRESCENT, SUITE 110  
COLORADO SPRINGS, CO 80903  
PHONE: 719.955.5485



VIRGIL A SANCHEZ COLORADO PE NO 37160

FOR AND ON  
BEHALF OF  
M&S CIVIL  
CONSULTANTS,  
INC.

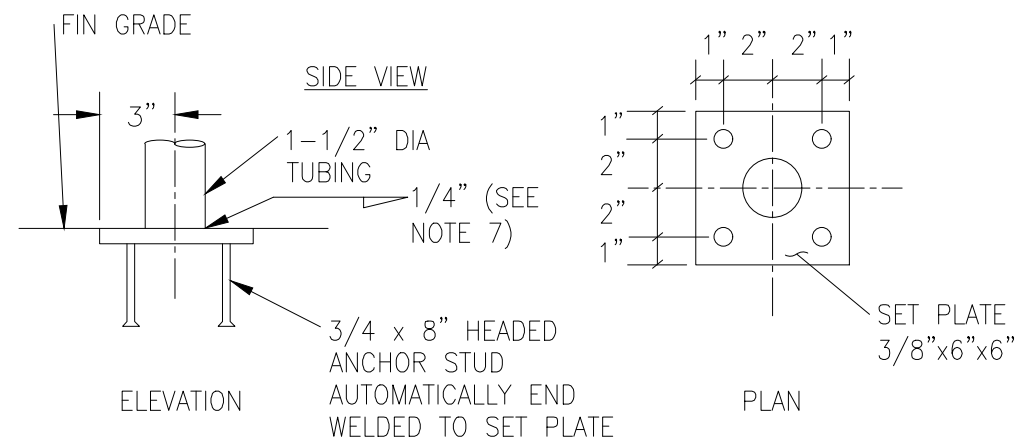
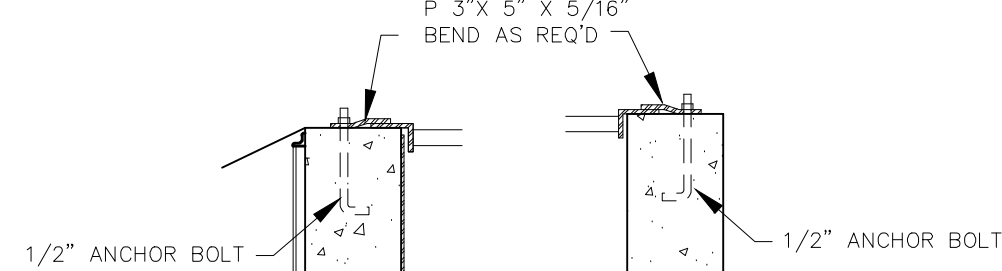
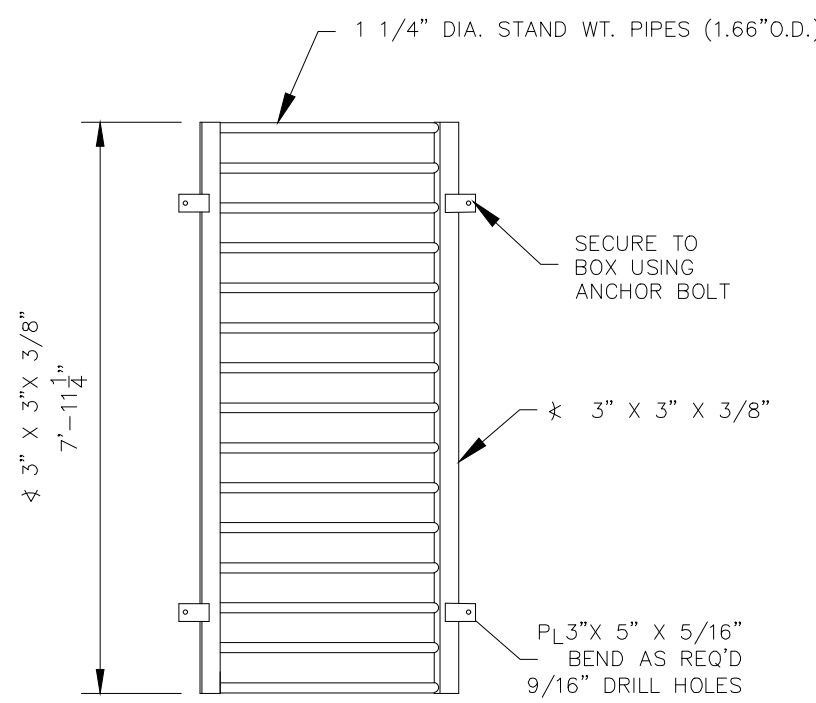
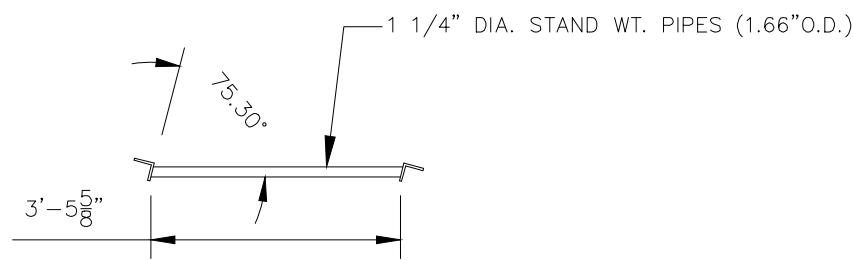
REVISIONS:

[illegible]

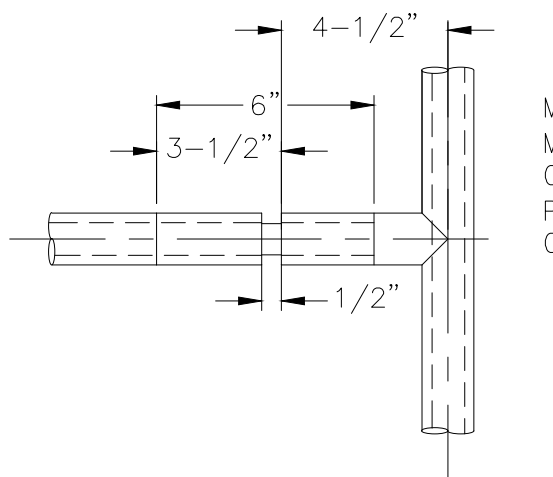
THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.

CAUTIC



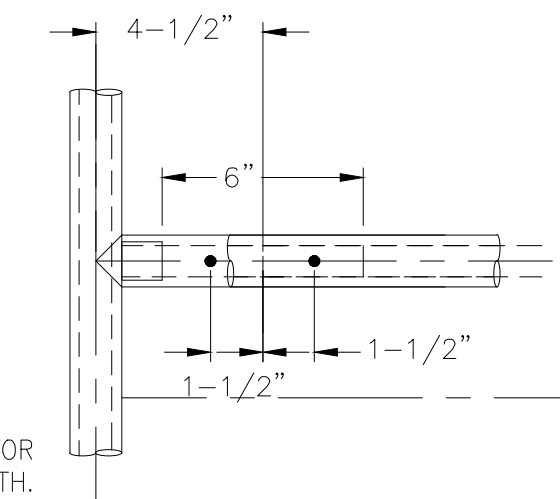


- 1) WELD PLATES MAY BE SUBSTITUTED FOR PIPE EMBEDMENT.
- 2) CONTRACTOR TO SUBMIT SHOP DRAWINGS TO ENGINEER OF RECORD FOR APPROVAL PRIOR TO FABRICATION.
- 3) DESIGN CRITERIA SHALL BE IN ACCORDANCE WITH AASHTO STANDARDS.
- 4) HANDRAIL DESIGN SHALL BE COMPATIBLE WITH THE DESIGN OF THE WINGWALLS AND HEADWALLS.
- 5) RAILING POSTS SHALL BE SET TO NORMAL TO GRADE. RAILS SHALL RUN PARALLEL TO THE SLOPES OF THE TOP OF WALLS.
- 6) ALL RAILS SHALL BE FREE OF ANY SHARP EDGES OR CORNERS.

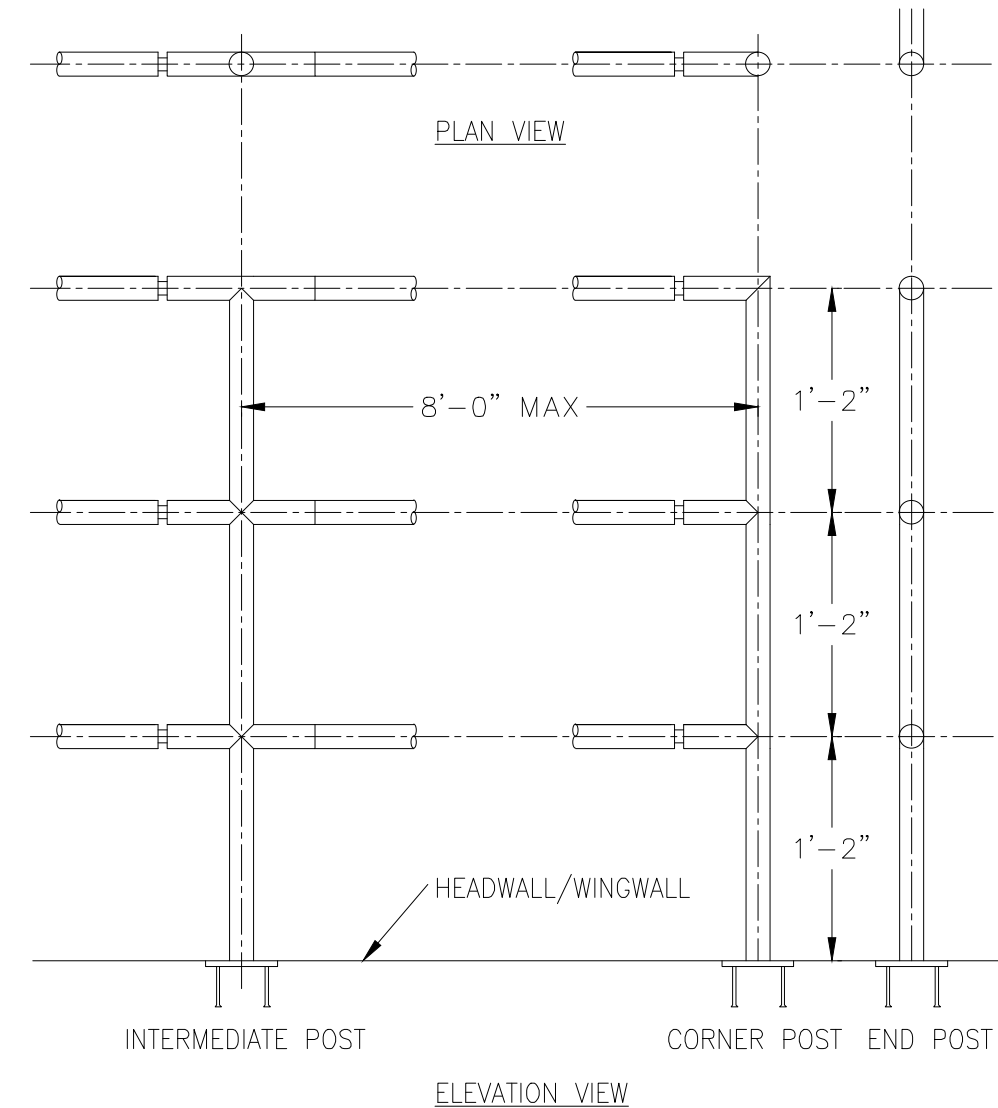


MECHANICAL TUBING, 1/4" MIN. WALL THICKNESS, 1/16" CHAMFER BOTH ENDS. REAM PIPE FOR SLIP FIT 0.03" MAX. CLEARANCE

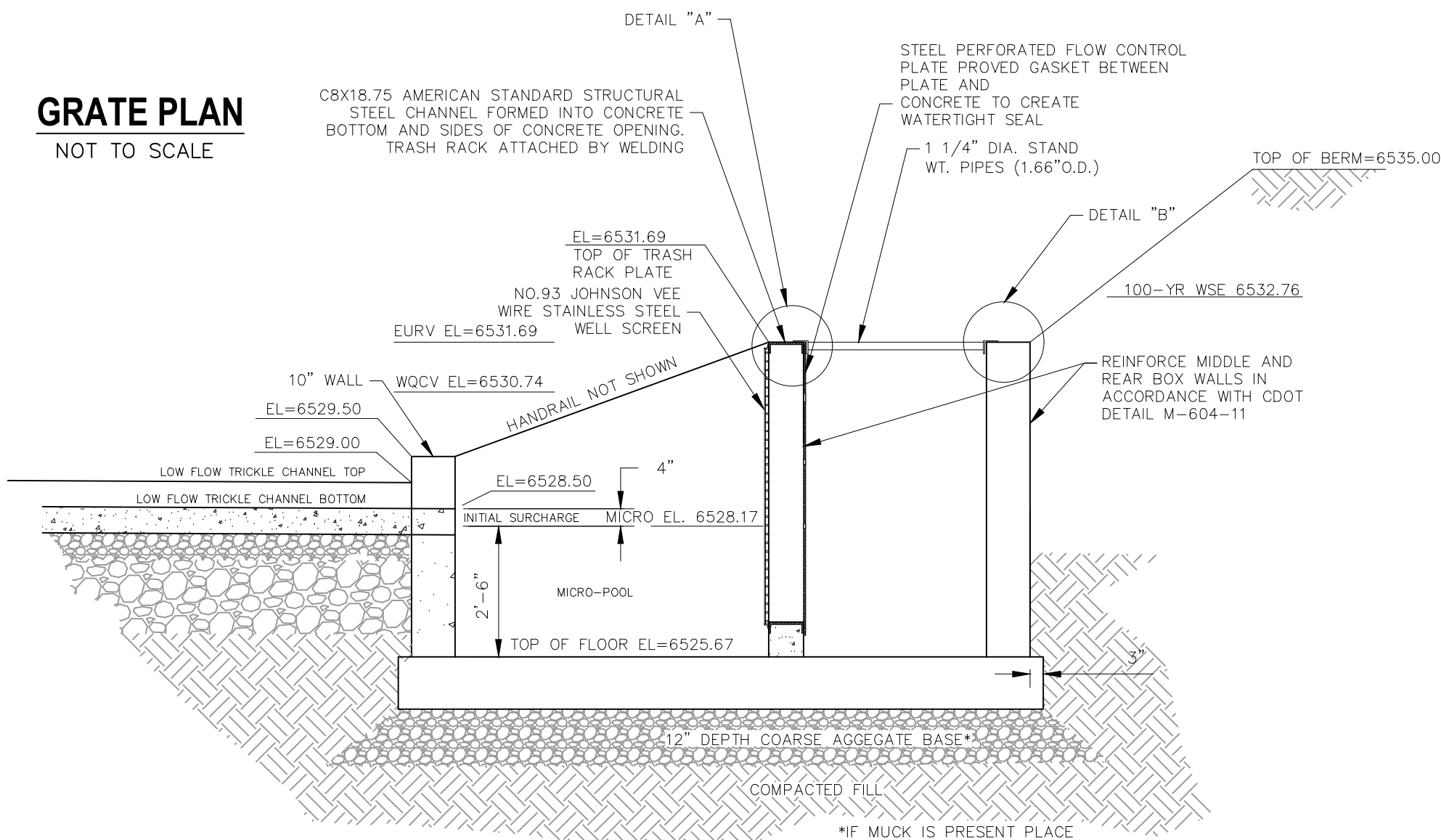
13/32" DRILL AND CSK. PIPE 1/16" DEEP BOTH SIDES. PROVIDE 3/8" DIA. SOFT STEEL ROD SUITABLE FOR FIELD RIVETING, GRIND SMOOTH.



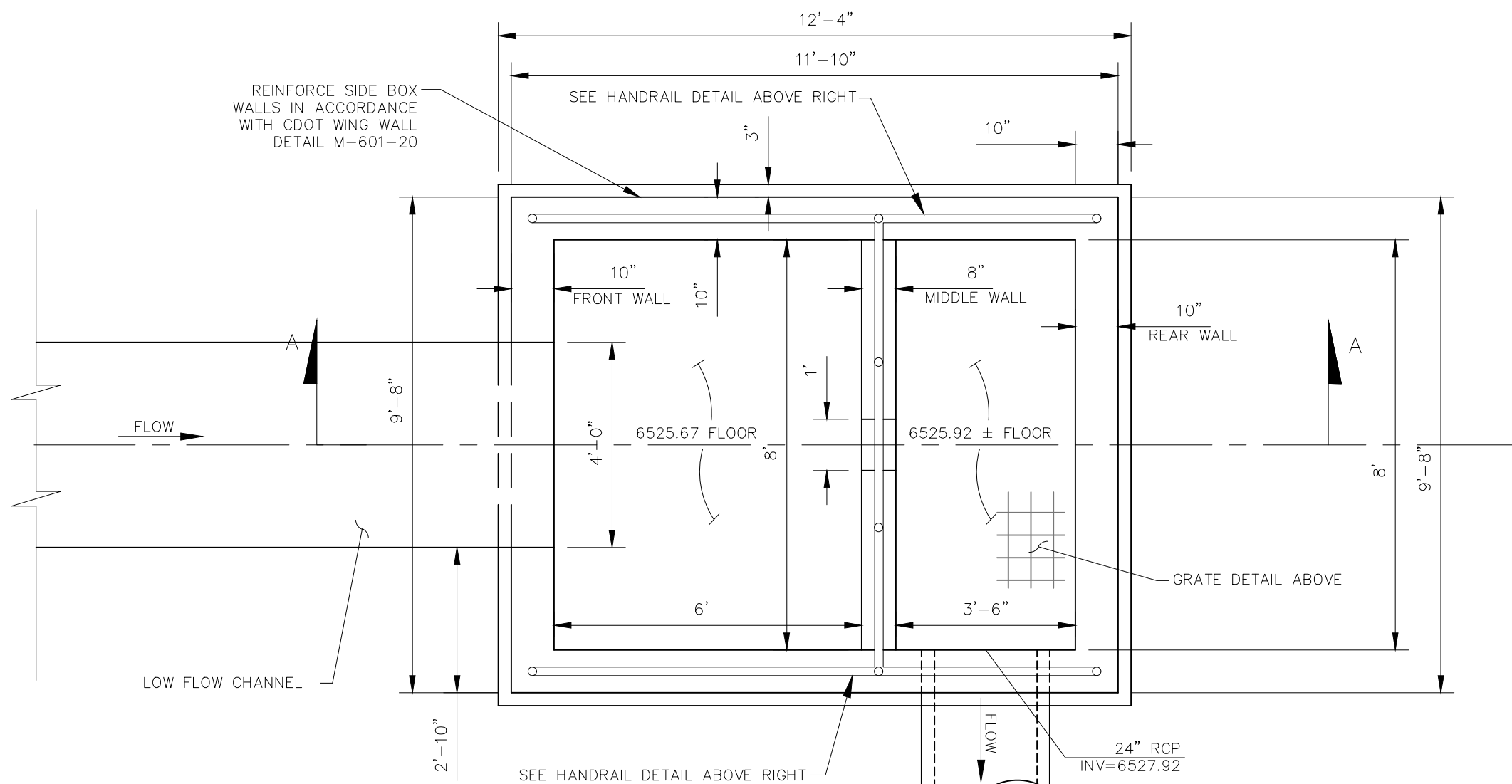
### HANDRAIL ASSEMBLY DETAILS NOT TO SCALE



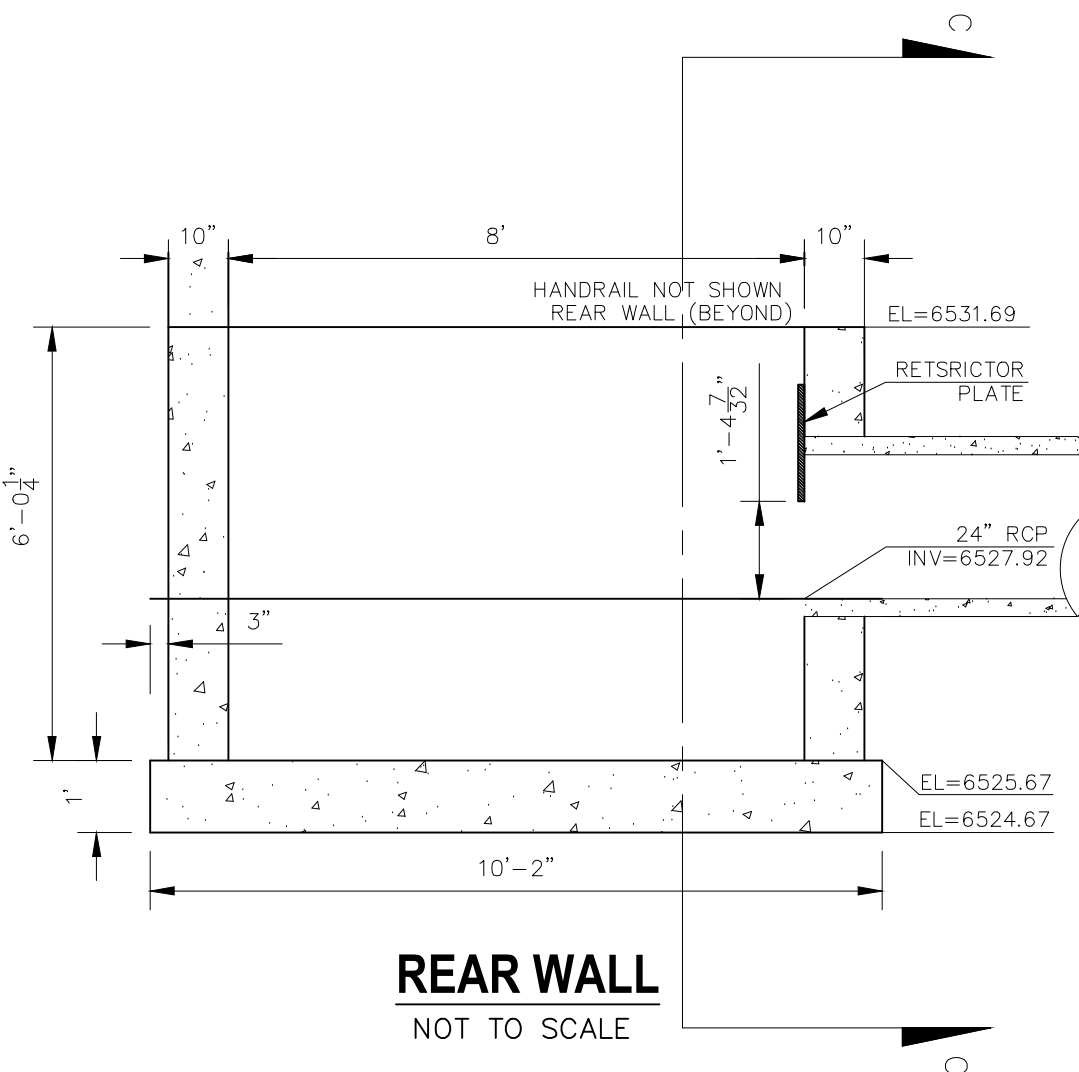
### GRATE PLAN NOT TO SCALE



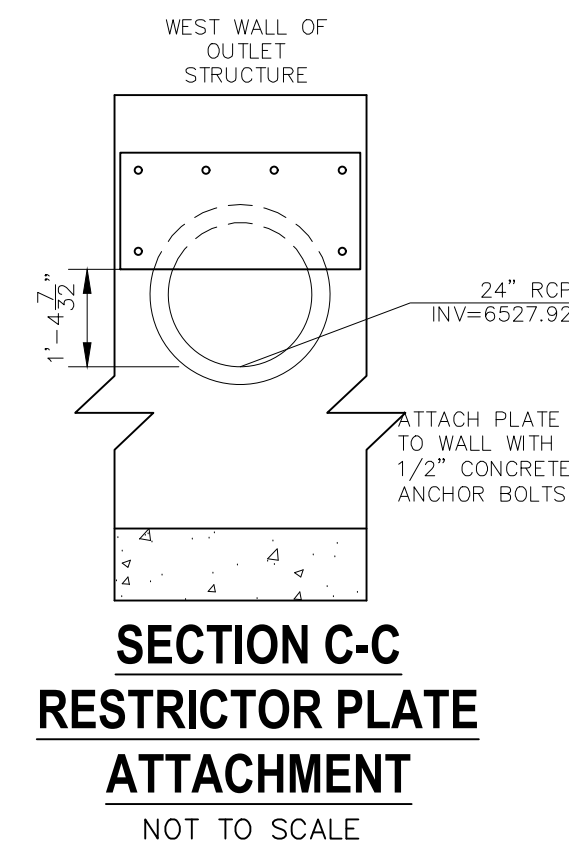
### SECTION A-A NOT TO SCALE



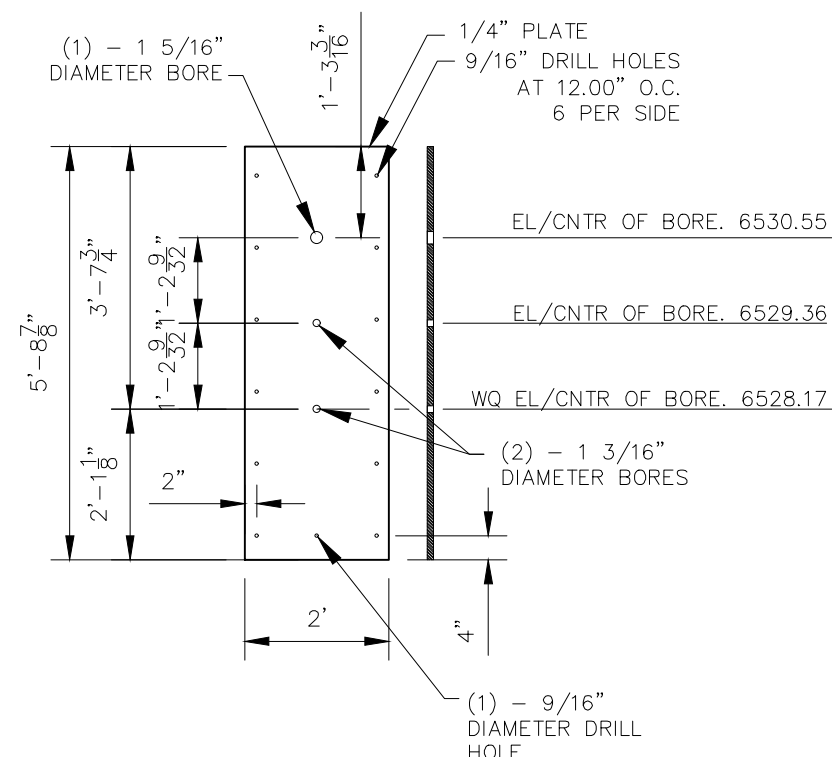
### FDS POND WATER QUALITY OUTLET STRUCTURE NOT TO SCALE



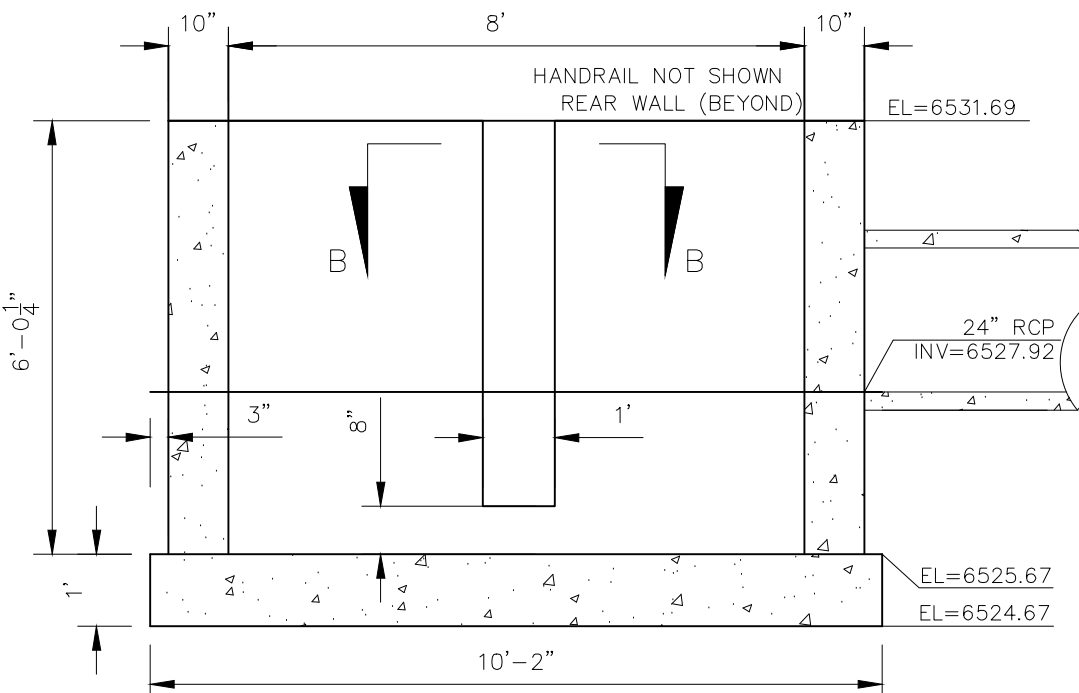
### REAR WALL NOT TO SCALE



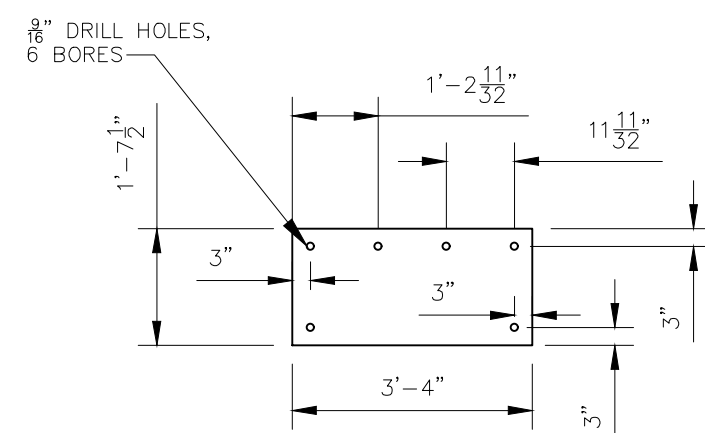
### SECTION C-C RESTRICTOR PLATE ATTACHMENT NOT TO SCALE



### ORIFICE PLATE NOT TO SCALE

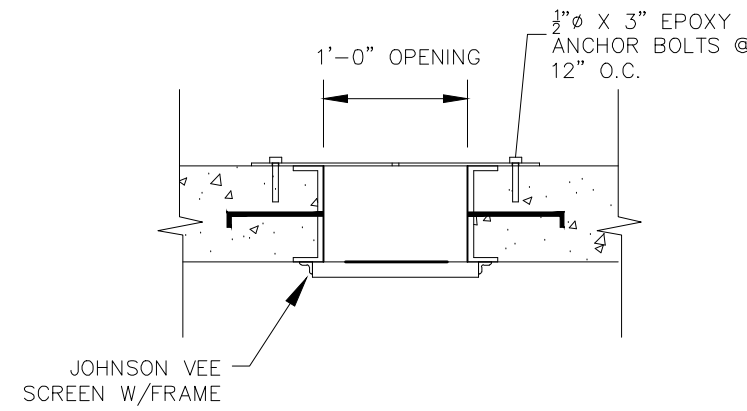


### MIDDLE WALL NOT TO SCALE

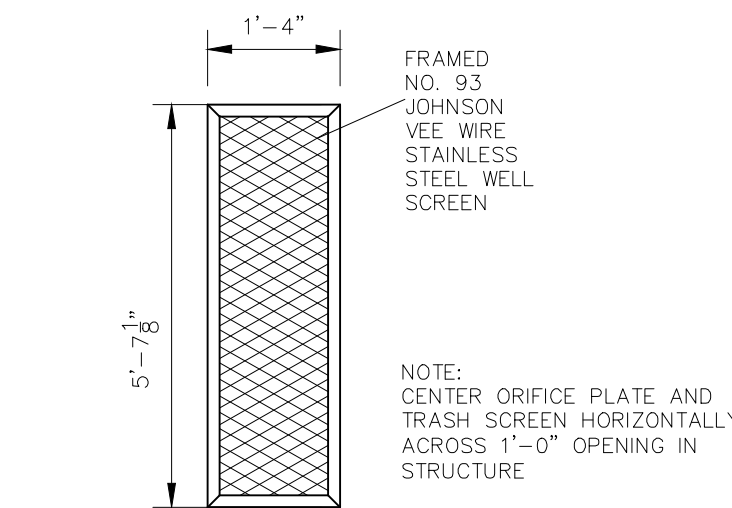


### RESTRICTOR PLATE NOT TO SCALE

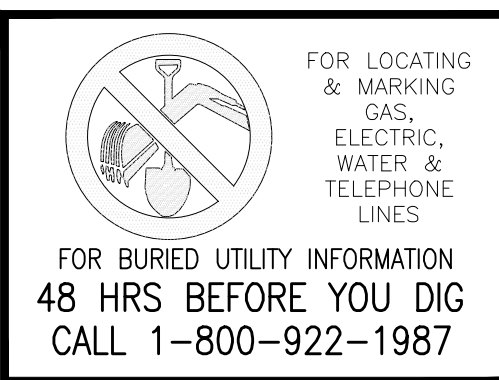
NOTE:  
ALL GRATES, IMBEDS, AND FASTENERS SHALL BE FABRICATED USING GALVANIZED STEEL, UNLESS OTHERWISE NOTED.  
ALL GRATE DIMENSIONS TO BE FIELD VERIFIED PRIOR TO FABRICATION. ALL GRATE MATERIAL SHALL BE GALVANIZED.



### SECTION B-B NOT TO SCALE

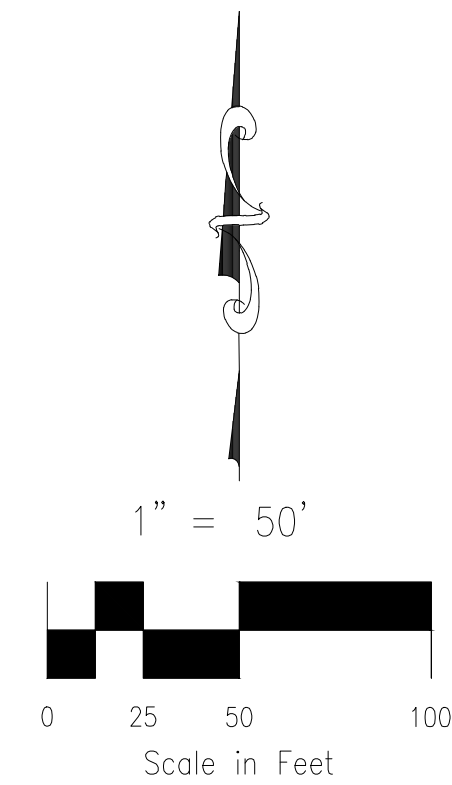


### TRASH SCREEN DETAIL NOT TO SCALE



DWIRE STORAGE YARD		FSD OUTLET STRUCTURE DETAILS		PROJECT NO. 43-117		SCALE: HORIZONTAL: N/A VERTICAL: N/A		DATE: 1/3/2020		SHEET 4 OF 6		ST04	
20 BOULDER CRESCENT SUITE 110 COLORADO SPRINGS, CO 80903 PHONE: 719.555.5485		DESIGNED BY: CMN DRAWN BY: CMN CHECKED BY: WAS		FOR AND ON BEHALF OF W&S CIVIL CONSULTANTS, INC.		VIRGIL A. SANCHEZ, COLORADO P.E. NO. 37160		APPROVED BY: DATE:		BY: DESCRIPTION:		NO. DATE:	
CIVIL CONSULTANTS, INC.		THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.		CAUTION									





**18" STORM SEWER**  
**STA 1+00.00 TO STA 1+29.32**

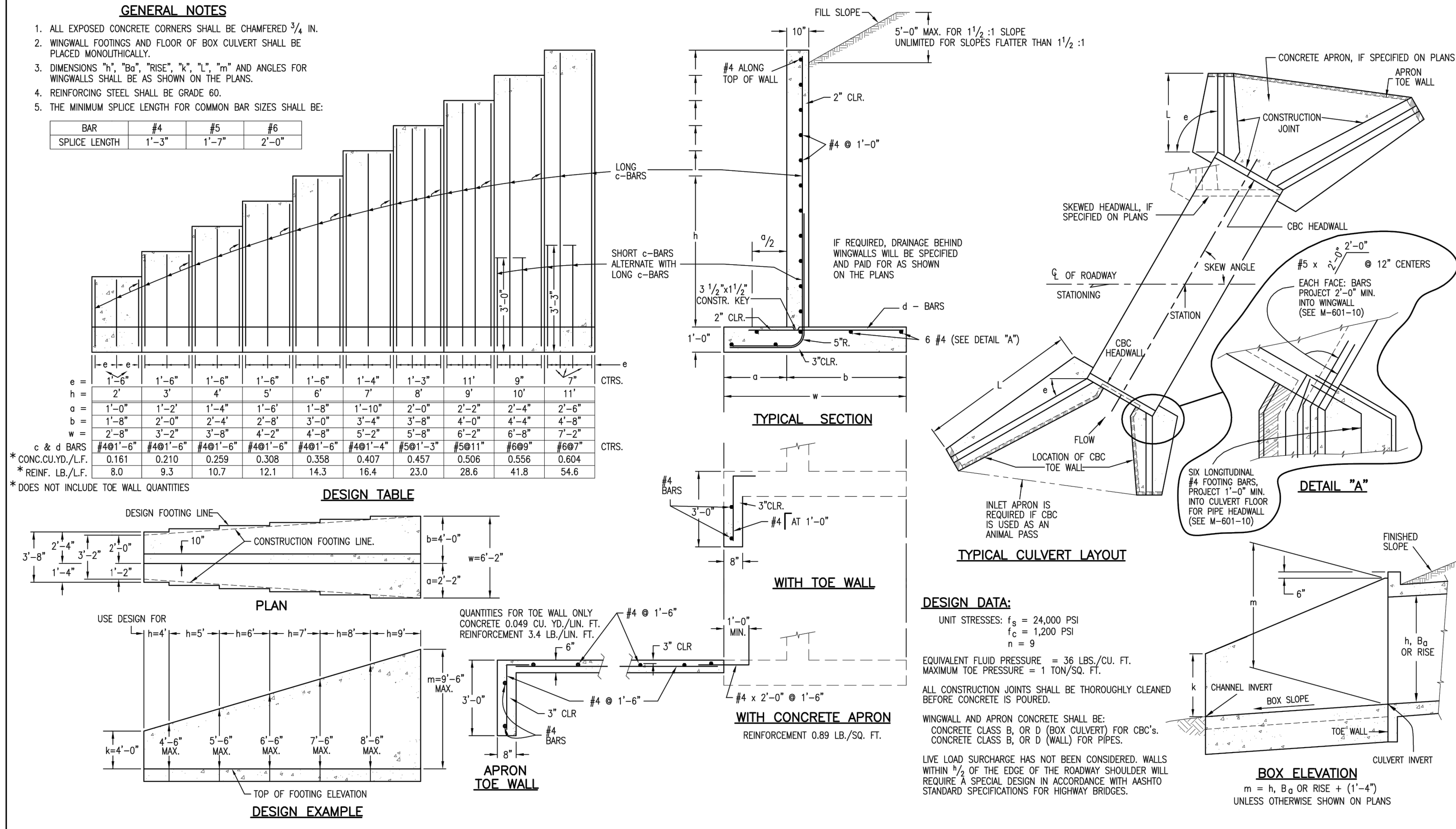



 FOR LOCATING  
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GAS,  
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TELEPHONE  
LINES

FOR BURIED UTILITY INFORMATION  
**48 HRS BEFORE YOU DIG**  
**CALL 1-800-922-1987**

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<b>Computer File Information</b>		<b>Sheet Revisions</b>		<b>Colorado Department of Transportation</b>		<b>WINGWALLS FOR PIPE OR BOX CULVERTS</b>		<b>STANDARD PLAN NO.</b>	
Creation Date: 07/04/05 Initials: SJR		Date: Comments:		 4201 East Arkansas Avenue Denver, Colorado 80222 Phone: (303) 757-9083 Fax: (303) 757-9820		<b>M-601-20</b>		<b>Sheet No. 1 of 1</b>	
Last Modification Date: 07/04/06 Initials: LTA									
Full Path: www.dot.state.co.us/DesignSupport/									
Drawing File Name: 6010200101.dwg									
CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English				<b>Project Development Branch SRJ/LTA</b>		Issued By: Project Development Branch on July 04, 2006			

-40-

