



# Drexel, Barrell & Co.

January 23, 2024

**Engineers/Surveyors**

**Colorado Springs  
Lafayette**

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Colorado Springs,  
Colorado 80903

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El Paso County  
Department of Public Works  
3275 Akers Drive  
Colorado Springs, CO 80922

Attn: Brad Walters

RE: Falcon Marketplace Filing No. 1  
Certification Letter

Mr. Walters,

Based upon information gathered from periodic site visits during significant/key phases of the project development, Drexel, Barrell & Co., is of the opinion that the subdivision improvements for Falcon Marketplace Filing No. 1 have been constructed in general conformance with the approved design plans as filed with El Paso County.

The site and adjacent properties (as affected by work performed under the County permit) are stable with respect to settlement and subsidence, sloughing of cut and fill slopes, revegetation or other ground cover, and that the improvements (public improvements, common development improvements, site grading and paving) meet or exceed the minimum design requirements.

Drainage improvements for the site consist of a sub-regional Extended Detention Basin, and two Water Quality facilities. The facilities have been constructed in general compliance with the approved Erosion Control and Stormwater Quality Plan. The facilities provide the required storage volume and meet the required release rates as documented by the attached MHFD design forms. The Engineering Record Drawings accurately depict the installation of the facilities and verify the detention volume provided.

**Tim D. McConnell, P.E.**  
**Colorado No. 33797**





## STAGE-DISCHARGE SIZING OF THE WATER QUALITY CAPTURE VOLUME (WQCV) OUTLET

Project: **FALCON MARKETPLACE**

Basin ID: **NORTH POND #1**

**WQCV Design Volume (Input):**

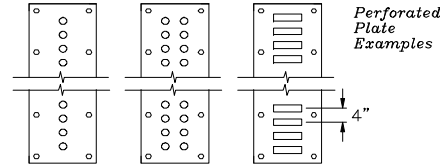
Catchment Imperviousness, $I_p$ = <input type="text" value="15.0"/> percent Catchment Area, A = <input type="text" value="740.00"/> acres Depth at WQCV outlet above lowest perforation, H = <input type="text" value="8"/> feet Vertical distance between rows, h = <input type="text" value="30.00"/> inches Number of rows, NL = <input type="text" value="3.00"/> Orifice discharge coefficient, $C_d$ = <input type="text" value="0.50"/> Slope of Basin Trickle Channel, S = <input type="text" value="0.005"/> ft / ft Time to Drain the Pond = <input type="text" value="40"/> hours	Diameter of holes, D = <input type="text" value="5.000"/> inches Number of holes per row, N = <input type="text" value="1"/> <b>OR</b> Height of slot, H = <input type="text" value=""/> inches Width of slot, W = <input type="text" value=""/> inches
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**Watershed Design Information (Input):**

Percent Soil Type A =  %  
 Percent Soil Type B =  %  
 Percent Soil Type C/D =  %

**Outlet Design Information (Output):**

Excess Urban Runoff Volume (From 'Full-Spectrum Sheet') =  watershed inches  
 =   
**Excess Urban Runoff Volume (From 'Full-Spectrum Sheet') =  acre-feet**  
 Outlet area per row,  $A_o$  =  square inches  
 Total opening area at each row based on user-input above,  $A_o$  =  square inches  
 Total opening area at each row based on user-input above,  $A_o$  =  square feet



3

Central Elevations of Rows of Holes in feet																							Σ Flow	
Row 1	Row 2	Row 3	Row 4	Row 5	Row 6	Row 7	Row 8	Row 9	Row 10	Row 11	Row 12	Row 13	Row 14	Row 15	Row 16	Row 17	Row 18	Row 19	Row 20	Row 21	Row 22	Row 23		
6885.00	6887.50	6890.00																						
Collection Capacity for Each Row of Holes in cfs																								
6882.00	0.0000	0.0000	0.0000																					0.00
6883.00	0.0000	0.0000	0.0000																					0.00
6884.00	0.0000	0.0000	0.0000																					0.00
6885.00	0.0000	0.0000	0.0000																					0.00
6886.00	0.5457	0.0000	0.0000																					0.55
6887.00	0.7717	0.0000	0.0000																					0.77
6888.00	0.9452	0.3859	0.0000																					1.33
6889.00	1.0914	0.6683	0.0000																					1.76
6890.00	1.2202	0.8628	0.0000																					2.08
6891.00	1.3367	1.0209	0.5457																					2.90
6892.00	1.4438	1.1576	0.7717																					3.37
6893.00	1.5435	1.2798	0.9452																					3.77
6894.00	1.6371	1.3913	1.0914																					4.12
6895.00	1.7256	1.4945	1.2202																					4.44
6896.00	1.8099	1.5910	1.3367																					4.74
6896.50	1.8505	1.6371	1.3913																					4.88
6897.00	1.8904	1.6820	1.4438																					5.02
6897.50	1.9293	1.7256	1.4945																					5.15
6898.00	1.9675	1.7683	1.5435																					5.28
6899.00	2.0418	1.8505	1.6371																					5.53
6900.00	2.1135	1.9293	1.7256																					5.77
6901.00	2.1828	2.0050	1.8099																					6.00
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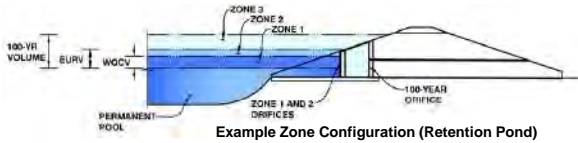


## Detention Basin Outlet Structure Design

UD-Detention, Version 3.07 (February 2017)

Project: **FALCON MARKETPLACE**  
Basin ID: **POND 2**

SOUTH POND 2  
DESIGN



	Stage (ft)	Zone Volume (ac-ft)	Outlet Type
Zone 1 (WQCV)	4.21	0.870	Orifice Plate
Zone 2 (User)	4.76	0.400	Weir&Pipe (Circular)
Zone 3			
		1.270	Total

**User Input: Orifice at Underdrain Outlet (typically used to drain WQCV in a Filtration BMP)**

Underdrain Orifice Invert Depth =  ft (distance below the filtration media surface)  
Underdrain Orifice Diameter =  inches

**Calculated Parameters for Underdrain**

Underdrain Orifice Area =  ft<sup>2</sup>  
Underdrain Orifice Centroid =  feet

**User Input: Orifice Plate with one or more orifices or Elliptical Slot Weir (typically used to drain WQCV and/or EURV in a sedimentation BMP)**

Invert of Lowest Orifice =  ft (relative to basin bottom at Stage = 0 ft)  
Depth at top of Zone using Orifice Plate =  ft (relative to basin bottom at Stage = 0 ft)  
Orifice Plate: Orifice Vertical Spacing =  inches  
Orifice Plate: Orifice Area per Row =  inches

**Calculated Parameters for Plate**

WQ Orifice Area per Row =  ft<sup>2</sup>  
Elliptical Half-Width =  feet  
Elliptical Slot Centroid =  feet  
Elliptical Slot Area =  ft<sup>2</sup>

**User Input: Stage and Total Area of Each Orifice Row (numbered from lowest to highest)**

	Row 1 (required)	Row 2 (optional)	Row 3 (optional)	Row 4 (optional)	Row 5 (optional)	Row 6 (optional)	Row 7 (optional)	Row 8 (optional)
Stage of Orifice Centroid (ft)	0.00	1.40	2.81					
Orifice Area (sq. inches)	2.46	2.46	2.00					

	Row 9 (optional)	Row 10 (optional)	Row 11 (optional)	Row 12 (optional)	Row 13 (optional)	Row 14 (optional)	Row 15 (optional)	Row 16 (optional)
Stage of Orifice Centroid (ft)								
Orifice Area (sq. inches)								

**User Input: Vertical Orifice (Circular or Rectangular)**

	Not Selected	Not Selected	
Invert of Vertical Orifice =			ft (relative to basin bottom at Stage = 0 ft)
Depth at top of Zone using Vertical Orifice =			ft (relative to basin bottom at Stage = 0 ft)
Vertical Orifice Diameter =			inches

**Calculated Parameters for Vertical Orifice**

	Not Selected	Not Selected	
Vertical Orifice Area =			ft <sup>2</sup>
Vertical Orifice Centroid =			feet

**User Input: Overflow Weir (Dropbox) and Grate (Flat or Sloped)**

	Zone 2 Weir	Not Selected	
Overflow Weir Front Edge Height, Ho =	4.21		ft (relative to basin bottom at Stage = 0 ft)
Overflow Weir Front Edge Length =	6.00		feet
Overflow Weir Slope =	0.00		H:V (enter zero for flat grate)
Horiz. Length of Weir Sides =	6.00		feet
Overflow Grate Open Area % =	70%		%, grate open area/total area
Debris Clogging % =	50%		%

**Calculated Parameters for Overflow Weir**

	Zone 2 Weir	Not Selected	
Height of Grate Upper Edge, H <sub>1</sub> =	4.21		feet
Over Flow Weir Slope Length =	6.00		feet
Grate Open Area / 100-yr Orifice Area =	5.13		should be ≥ 4
Overflow Grate Open Area w/o Debris =	25.20		ft <sup>2</sup>
Overflow Grate Open Area w/ Debris =	12.60		ft <sup>2</sup>

**User Input: Outlet Pipe w/ Flow Restriction Plate (Circular Orifice, Restrictor Plate, or Rectangular Orifice)**

	Zone 2 Circular	Not Selected	
Depth to Invert of Outlet Pipe =	0.00		ft (distance below basin bottom at Stage = 0 ft)
Circular Orifice Diameter =	30.00		inches

**Calculated Parameters for Outlet Pipe w/ Flow Restriction Plate**

	Zone 2 Circular	Not Selected	
Outlet Orifice Area =	4.91		ft <sup>2</sup>
Outlet Orifice Centroid =	1.25		feet
Half-Central Angle of Restrictor Plate on Pipe =	N/A	N/A	radians

**User Input: Emergency Spillway (Rectangular or Trapezoidal)**

Spillway Invert Stage =  ft (relative to basin bottom at Stage = 0 ft)  
Spillway Crest Length =  feet  
Spillway End Slopes =  H:V  
Freeboard above Max Water Surface =  feet

**Calculated Parameters for Spillway**

Spillway Design Flow Depth =  feet  
Stage at Top of Freeboard =  feet  
Basin Area at Top of Freeboard =  acres

### Routed Hydrograph Results

	WQCV	EURV	2 Year	5 Year	10 Year	25 Year	50 Year	100 Year	500 Year
Design Storm Return Period =									
One-Hour Rainfall Depth (in) =	0.53	1.07	0.95	1.22	1.48	1.86	2.19	2.54	3.46
Calculated Runoff Volume (acre-ft) =	0.870	3.247	1.799	2.375	2.968	3.832	4.561	5.426	7.652
OPTIONAL Override Runoff Volume (acre-ft) =									
Inflow Hydrograph Volume (acre-ft) =	0.870	3.247	1.799	2.375	2.969	3.832	4.561	5.422	7.651
Predevelopment Unit Peak Flow, q (cfs/acre) =	0.00	0.00	0.00	0.00	0.01	0.03	0.20	0.50	1.22
Predevelopment Peak Q (cfs) =	0.0	0.0	0.0	0.1	0.3	0.7	5.5	13.8	34.0
Peak Inflow Q (cfs) =	14.7	54.0	30.2	39.7	49.5	63.6	75.4	89.3	124.9
Peak Outflow Q (cfs) =	0.4	34.4	13.3	21.7	30.5	43.5	47.7	50.2	105.3
Ratio Peak Outflow to Predevelopment Q =	N/A	N/A	N/A	181.6	105.6	61.3	8.7	3.6	3.1
Structure Controlling Flow =	Plate	Overflow Grate 1	Overflow Grate 1	Overflow Grate 1	Overflow Grate 1	Overflow Grate 1	Outlet Plate 1	Outlet Plate 1	Spillway
Max Velocity through Grate 1 (fps) =	N/A	1.36	0.52	0.8	1.2	1.7	1.9	2.0	2.0
Max Velocity through Grate 2 (fps) =	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Time to Drain 97% of Inflow Volume (hours) =	38	35	38	36	35	33	32	31	27
Time to Drain 99% of Inflow Volume (hours) =	41	40	42	41	41	40	39	38	36
Maximum Ponding Depth (ft) =	4.12	4.97	4.61	4.76	4.91	5.09	5.33	5.76	6.08
Area at Maximum Ponding Depth (acres) =	0.67	0.79	0.74	0.76	0.78	0.80	0.83	0.89	0.93
Maximum Volume Stored (acre-ft) =	0.809	1.428	1.154	1.273	1.381	1.531	1.719	2.099	2.382

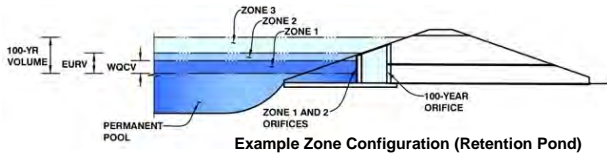


# DETENTION BASIN OUTLET STRUCTURE DESIGN

MHFD-Detention, Version 4.06 (July 2022)

Project: **Falcon Marketplace**  
Basin ID: **Pond 2 (South)**

SOUTH POND 2  
AS-BUILT



	Estimated Stage (ft)	Estimated Volume (ac-ft)	Outlet Type
Zone 1 (WQCV)	4.28	0.870	Orifice Plate
Zone 2			Weir & Pipe (Circular)
Zone 3			
Total (all zones)		0.870	

User Input: Orifice at Underdrain Outlet (typically used to drain WQCV in a Filtration BMP)

Underdrain Orifice Invert Depth =	N/A	ft (distance below the filtration media surface)
Underdrain Orifice Diameter =	N/A	inches

Calculated Parameters for Underdrain	
Underdrain Orifice Area =	N/A
Underdrain Orifice Centroid =	N/A

User Input: Orifice Plate with one or more orifices or Elliptical Slot Weir (typically used to drain WQCV and/or EURV in a sedimentation BMP)

Centroid of Lowest Orifice =	0.00	ft (relative to basin bottom at Stage = 0 ft)
Depth at top of Zone using Orifice Plate =	4.28	ft (relative to basin bottom at Stage = 0 ft)
Orifice Plate: Orifice Vertical Spacing =	17.10	inches
Orifice Plate: Orifice Area per Row =	N/A	sq. inches

Calculated Parameters for Plate	
WO Orifice Area per Row =	N/A
Elliptical Half-Width =	N/A
Elliptical Slot Centroid =	N/A
Elliptical Slot Area =	N/A

User Input: Stage and Total Area of Each Orifice Row (numbered from lowest to highest)

	Row 1 (required)	Row 2 (optional)	Row 3 (optional)	Row 4 (optional)	Row 5 (optional)	Row 6 (optional)	Row 7 (optional)	Row 8 (optional)
Stage of Orifice Centroid (ft)	0.00	1.43	2.85					
Orifice Area (sq. inches)	2.65	2.65	2.00					

	Row 9 (optional)	Row 10 (optional)	Row 11 (optional)	Row 12 (optional)	Row 13 (optional)	Row 14 (optional)	Row 15 (optional)	Row 16 (optional)
Stage of Orifice Centroid (ft)								
Orifice Area (sq. inches)								

User Input: Vertical Orifice (Circular or Rectangular)

	Not Selected	Not Selected	
Invert of Vertical Orifice =			ft (relative to basin bottom at Stage = 0 ft)
Depth at top of Zone using Vertical Orifice =			ft (relative to basin bottom at Stage = 0 ft)
Vertical Orifice Diameter =			inches

Calculated Parameters for Vertical Orific		
Vertical Orifice Area =	Not Selected	Not Selected
Vertical Orifice Centroid =		

User Input: Overflow Weir (Dropbox with Flat or Sloped Gate and Outlet Pipe OR Rectangular/Trapezoidal Weir and No Outlet Pipe)

	Zone 2 Weir	Not Selected	
Overflow Weir Front Edge Height, Ho =	4.30		ft (relative to basin bottom at Stage = 0 ft)
Overflow Weir Front Edge Length =	9.00		feet
Overflow Weir Gate Slope =	0.00		H:V
Horiz. Length of Weir Sides =	4.00		feet
Overflow Gate Type =	Type C Gate		
Debris Clogging % =	50%		%

Calculated Parameters for Overflow Weir		
Height of Gate Upper Edge, H <sub>1</sub> =	4.30	
Overflow Weir Slope Length =	4.00	
Gate Open Area / 100-yr Orifice Area =	5.10	
Overflow Gate Open Area w/o Debris =	25.06	
Overflow Gate Open Area w/ Debris =	12.53	

User Input: Outlet Pipe w/ Flow Restriction Plate (Circular Orifice, Restrictor Plate, or Rectangular Orifice)

	Zone 2 Circular	Not Selected	
Depth to Invert of Outlet Pipe =	0.00		ft (distance below basin bottom at Stage = 0 ft)
Circular Orifice Diameter =	30.00		inches

Calculated Parameters for Outlet Pipe w/ Flow Restriction Plate		
Outlet Orifice Area =	4.91	Not Selected
Outlet Orifice Centroid =	1.25	
Half-Central Angle of Restrictor Plate on Pipe =	N/A	N/A

User Input: Emergency Spillway (Rectangular or Trapezoidal)

Spillway Invert Stage =	5.60	ft (relative to basin bottom at Stage = 0 ft)
Spillway Crest Length =	120.00	feet
Spillway End Slopes =	5.00	H:V
Freeboard above Max Water Surface =	1.00	feet

Calculated Parameters for Spillway		
Spillway Design Flow Depth =	0.43	feet
Stage at Top of Freeboard =	7.03	feet
Basin Area at Top of Freeboard =	1.07	acres
Basin Volume at Top of Freeboard =	3.13	acre-ft

## Routed Hydrograph Results

The user can override the default CUHP hydrographs and runoff volumes by entering new values in the Inflow Hydrographs table (Columns W through AF)

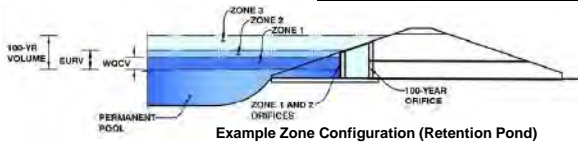
	WQCV	EURV	2 Year	5 Year	10 Year	25 Year	50 Year	100 Year
Design Storm Return Period =	N/A	N/A	1.19	1.50	1.75	2.00	2.25	2.52
One-Hour Rainfall Depth (in) =	N/A	N/A	1.19	1.50	1.75	2.00	2.25	2.52
CUHP Runoff Volume (acre-ft) =	0.870	3.247	2.261	2.919	3.448	4.038	4.615	5.268
Inflow Hydrograph Volume (acre-ft) =	N/A	N/A	2.261	2.919	3.448	4.038	4.615	5.268
CUHP Predevelopment Peak Q (cfs) =	N/A	N/A	0.2	0.5	0.7	6.2	12.3	20.2
OPTIONAL Override Predevelopment Peak Q (cfs) =	N/A	N/A						
Predevelopment Unit Peak Flow, q (cfs/acre) =	N/A	N/A	0.01	0.02	0.02	0.22	0.44	0.73
Peak Inflow Q (cfs) =	N/A	N/A	45.7	58.6	69.1	82.9	95.0	106.1
Peak Outflow Q (cfs) =	0.4	250.4	16.7	26.3	33.2	48.2	52.9	77.7
Ratio Peak Outflow to Predevelopment Q =	N/A	N/A	N/A	53.7	49.2	7.8	4.3	3.8
Structure Controlling Flow =	Plate	Overflow Weir 1	Overflow Weir 1	Overflow Weir 1	Overflow Weir 1	Outlet Plate 1	Spillway	Spillway
Max Velocity through Gate 1 (fps) =	N/A	1.22	0.64	1.0	1.3	1.9	2.0	2.0
Max Velocity through Gate 2 (fps) =	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Time to Drain 97% of Inflow Volume (hours) =	38	35	37	35	34	33	32	30
Time to Drain 99% of Inflow Volume (hours) =	41	41	42	42	41	40	39	39
Maximum Ponding Depth (ft) =	4.28	5.11	4.83	5.02	5.15	5.41	5.64	5.78
Area at Maximum Ponding Depth (acres) =	0.58	0.74	0.69	0.72	0.74	0.79	0.83	0.85
Maximum Volume Stored (acre-ft) =	0.871	1.412	1.219	1.353	1.442	1.649	1.836	1.945



## Detention Basin Outlet Structure Design

Project: **FALCON MARKETPLACE**  
Basin ID: **POND #3**

SOUTHWEST  
POND 3 DESIGN



	Stage (ft)	Zone Volume (ac-ft)	Outlet Type
Zone 1 (WQCV)	3.14	0.089	Orifice Plate
Zone 2 (User)	5.50	0.126	Weir&Pipe (Restrict)
Zone 3		0.215	Total

**User Input: Orifice at Underdrain Outlet (typically used to drain WQCV in a Filtration BMP)**

Underdrain Orifice Invert Depth =  ft (distance below the filtration media surface)  
Underdrain Orifice Diameter =  inches

**Calculated Parameters for Underdrain**

Underdrain Orifice Area =  ft<sup>2</sup>  
Underdrain Orifice Centroid =  feet

**User Input: Orifice Plate with one or more orifices or Elliptical Slot Weir (typically used to drain WQCV and/or EURV in a sedimentation BMP)**

Invert of Lowest Orifice =  ft (relative to basin bottom at Stage = 0 ft)  
Depth at top of Zone using Orifice Plate =  ft (relative to basin bottom at Stage = 0 ft)  
Orifice Plate: Orifice Vertical Spacing =  inches  
Orifice Plate: Orifice Area per Row =  inches

**Calculated Parameters for Plate**

WQ Orifice Area per Row =  ft<sup>2</sup>  
Elliptical Half-Width =  feet  
Elliptical Slot Centroid =  feet  
Elliptical Slot Area =  ft<sup>2</sup>

**User Input: Stage and Total Area of Each Orifice Row (numbered from lowest to highest)**

	Row 1 (required)	Row 2 (optional)	Row 3 (optional)	Row 4 (optional)	Row 5 (optional)	Row 6 (optional)	Row 7 (optional)	Row 8 (optional)
Stage of Orifice Centroid (ft)	0.00	1.05	2.09					
Orifice Area (sq. inches)	0.45	0.40	0.30					

	Row 9 (optional)	Row 10 (optional)	Row 11 (optional)	Row 12 (optional)	Row 13 (optional)	Row 14 (optional)	Row 15 (optional)	Row 16 (optional)
Stage of Orifice Centroid (ft)								
Orifice Area (sq. inches)								

**User Input: Vertical Orifice (Circular or Rectangular)**

	Not Selected	Not Selected	
Invert of Vertical Orifice =			ft (relative to basin bottom at Stage = 0 ft)
Depth at top of Zone using Vertical Orifice =			ft (relative to basin bottom at Stage = 0 ft)
Vertical Orifice Diameter =			inches

**Calculated Parameters for Vertical Orifice**

	Not Selected	Not Selected	
Vertical Orifice Area =			ft <sup>2</sup>
Vertical Orifice Centroid =			feet

**User Input: Overflow Weir (Dropbox) and Grate (Flat or Sloped)**

	Zone 2 Weir	Not Selected	
Overflow Weir Front Edge Height, H <sub>o</sub> =	3.38		ft (relative to basin bottom at Stage = 0 ft)
Overflow Weir Front Edge Length =	4.00		feet
Overflow Weir Slope =	0.00		H:V (enter zero for flat grate)
Horiz. Length of Weir Sides =	3.00		feet
Overflow Grate Open Area % =	70%		% grate open area/total area
Debris Clogging % =	50%		%

**Calculated Parameters for Overflow Weir**

	Zone 2 Weir	Not Selected	
Height of Grate Upper Edge, H <sub>1</sub> =	3.38		feet
Over Flow Weir Slope Length =	3.00		feet
Grate Open Area / 100-yr Orifice Area =	5.35		should be ≥ 4
Overflow Grate Open Area w/o Debris =	8.40		ft <sup>2</sup>
Overflow Grate Open Area w/ Debris =	4.20		ft <sup>2</sup>

**User Input: Outlet Pipe w/ Flow Restriction Plate (Circular Orifice, Restrictor Plate, or Rectangular Orifice)**

	Zone 2 Restrictor	Not Selected	
Depth to Invert of Outlet Pipe =	0.00		ft (distance below basin bottom at Stage = 0 ft)
Outlet Pipe Diameter =	24.00		inches
Restrictor Plate Height Above Pipe Invert =	12.00		inches

**Calculated Parameters for Outlet Pipe w/ Flow Restriction Plate**

	Zone 2 Restrictor	Not Selected	
Outlet Orifice Area =	1.57		ft <sup>2</sup>
Outlet Orifice Centroid =	0.58		feet
Half-Central Angle of Restrictor Plate on Pipe =	1.57	N/A	radians

**User Input: Emergency Spillway (Rectangular or Trapezoidal)**

Spillway Invert Stage =  ft (relative to basin bottom at Stage = 0 ft)  
Spillway Crest Length =  feet  
Spillway End Slopes =  H:V  
Freeboard above Max Water Surface =  feet

**Calculated Parameters for Spillway**

Spillway Design Flow Depth =  feet  
Stage at Top of Freeboard =  feet  
Basin Area at Top of Freeboard =  acres

**Routed Hydrograph Results**

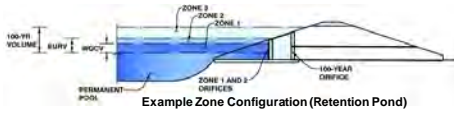
	WQCV	EURV	2 Year	5 Year	10 Year	25 Year	50 Year	100 Year	500 Year
Design Storm Return Period =									
One-Hour Rainfall Depth (in) =	0.53	1.07	0.95	1.22	1.48	1.86	2.19	2.54	3.46
Calculated Runoff Volume (acre-ft) =	0.089	0.292	0.148	0.203	0.274	0.430	0.542	0.677	1.026
OPTIONAL Override Runoff Volume (acre-ft) =									
Inflow Hydrograph Volume (acre-ft) =	0.089	0.291	0.147	0.202	0.273	0.429	0.541	0.676	1.025
Predevelopment Unit Peak Flow, q (cfs/acre) =	0.00	0.00	0.00	0.01	0.01	0.16	0.33	0.54	0.99
Predevelopment Peak Q (cfs) =	0.0	0.0	0.0	0.0	0.1	0.8	1.7	2.8	5.3
Peak Inflow Q (cfs) =	1.6	5.2	2.6	3.6	4.9	7.7	9.7	12.1	18.3
Peak Outflow Q (cfs) =	0.1	4.0	1.0	2.3	4.0	8.3	9.5	14.3	15.8
Ratio Peak Outflow to Predevelopment Q =	N/A	N/A	N/A	54.9	56.7	9.9	5.5	5.0	3.0
Structure Controlling Flow =	Plate	Overflow Grate 1	Overflow Grate 1	Overflow Grate 1	Overflow Grate 1	Overflow Grate 1	Overflow Grate 1	Outlet Plate 1	Outlet Plate 1
Max Velocity through Grate 1 (fps) =	N/A	0.48	0.11	0.3	0.5	1.0	1.1	1.7	1.9
Max Velocity through Grate 2 (fps) =	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Time to Drain 97% of Inflow Volume (hours) =	38	36	40	39	36	32	30	27	22
Time to Drain 99% of Inflow Volume (hours) =	42	43	45	44	43	41	39	38	35
Maximum Ponding Depth (ft) =	2.93	3.64	3.48	3.56	3.64	3.80	3.84	4.15	4.93
Area at Maximum Ponding Depth (acres) =	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.06
Maximum Volume Stored (acre-ft) =	0.080	0.113	0.105	0.109	0.113	0.120	0.122	0.139	0.181

# DETENTION BASIN STAGE-STORAGE TABLE BUILDER

MHFD-Defetion, Version 4.06 (July 2022)

Project: **Falcon Marketplace**  
 Basin ID: **Pond 3 (Southwest)**

SOUTHWEST  
 POND 3 AS-BUILT



Example Zone Configuration (Retention Pond)

**Watershed Information**

Selected BMP Type =	<b>EDB</b>
Watershed Area =	5.31 acres
Watershed Length =	1,000 ft
Watershed Length to Centroid =	500 ft
Watershed Slope =	0.020 ft/ft
Watershed Imperviousness =	48.20% percent
Percentage Hydrologic Soil Group A =	100.0% percent
Percentage Hydrologic Soil Group B =	0.0% percent
Percentage Hydrologic Soil Groups C/D =	0.0% percent
Target WQC Drain Time =	40.0 hours
Location for 1-hr Rainfall Depths =	User Input

After providing required inputs above including 1-hour rainfall depths, click 'Run CUHP' to generate runoff hydrographs using the embedded Colorado Urban Hydrograph Procedure.

Water Quality Capture Volume (WQCV) =	0.089 acre-feet
Excess Urban Runoff Volume (EURV) =	0.292 acre-feet
2-yr Runoff Volume (P1 = 1.19 in.) =	0.217 acre-feet
5-yr Runoff Volume (P1 = 1.5 in.) =	0.289 acre-feet
10-yr Runoff Volume (P1 = 1.75 in.) =	0.347 acre-feet
25-yr Runoff Volume (P1 = 2 in.) =	0.440 acre-feet
50-yr Runoff Volume (P1 = 2.25 in.) =	0.532 acre-feet
100-yr Runoff Volume (P1 = 2.52 in.) =	0.648 acre-feet
500-yr Runoff Volume (P1 = 3.49 in.) =	1.052 acre-feet
Approximate 2-yr Detention Volume =	0.188 acre-feet
Approximate 5-yr Detention Volume =	0.247 acre-feet
Approximate 10-yr Detention Volume =	0.302 acre-feet
Approximate 25-yr Detention Volume =	0.370 acre-feet
Approximate 50-yr Detention Volume =	0.414 acre-feet
Approximate 100-yr Detention Volume =	0.469 acre-feet

**Optional User Overrides**

	acre-feet
	acre-feet
	1.19 inches
	1.50 inches
	1.75 inches
	2.00 inches
	2.25 inches
	2.52 inches
	3.49 inches

**Define Zones and Basin Geometry**

Zone 1 Volume (WQCV) =	0.089 acre-feet
Zone 2 Volume (User Defined - Zone 1) =	0.090 acre-feet
Select Zone 3 Storage Volume (Optional) =	0.179 acre-feet
Total Detention Basin Volume =	0.358 acre-feet
Initial Surcharge Volume (ISV) =	user ft <sup>3</sup>
Initial Surcharge Depth (ISD) =	user ft
Total Available Detention Depth (H <sub>total</sub> ) =	user ft
Depth of Trickle Channel (H <sub>TC</sub> ) =	user ft
Slope of Trickle Channel (S <sub>TC</sub> ) =	user ft/ft
Slopes of Main Basin Sides (S <sub>main</sub> ) =	user H:V
Basin Length-to-Width Ratio (R <sub>L/W</sub> ) =	user
Initial Surcharge Area (A <sub>ISV</sub> ) =	user ft <sup>2</sup>
Surcharge Volume Length (L <sub>ISV</sub> ) =	user ft
Surcharge Volume Width (W <sub>ISV</sub> ) =	user ft
Depth of Basin Floor (H <sub>FLOOR</sub> ) =	user ft
Length of Basin Floor (L <sub>FLOOR</sub> ) =	user ft
Width of Basin Floor (W <sub>FLOOR</sub> ) =	user ft
Area of Basin Floor (A <sub>FLOOR</sub> ) =	user ft <sup>2</sup>
Volume of Basin Floor (V <sub>FLOOR</sub> ) =	user ft <sup>3</sup>
Depth of Main Basin (H <sub>MAIN</sub> ) =	user ft
Length of Main Basin (L <sub>MAIN</sub> ) =	user ft
Width of Main Basin (W <sub>MAIN</sub> ) =	user ft
Area of Main Basin (A <sub>MAIN</sub> ) =	user ft <sup>2</sup>
Volume of Main Basin (V <sub>MAIN</sub> ) =	user ft <sup>3</sup>
Calculated Total Basin Volume (V <sub>total</sub> ) =	user acre-feet

Total detention volume is less than 100-year volume.

Stage - Storage Description	Stage (ft)	Optional Override Stage (ft)	Length (ft)	Width (ft)	Area (ft <sup>2</sup> )	Optional Override Area (ft <sup>2</sup> )	Area (acre)	Volume (ft <sup>3</sup> )	Volume (ac-ft)
Top of Micropool	--	0.00	--	--	--	303	0.007		
6881	--	1.50	--	--	--	950	0.022	940	0.022
6882	--	2.50	--	--	--	1,951	0.036	2,190	0.050
6883	--	3.50	--	--	--	1,950	0.045	3,941	0.090
6884	--	4.50	--	--	--	2,395	0.055	6,113	0.140
6885	--	5.50	--	--	--	2,839	0.065	8,730	0.200

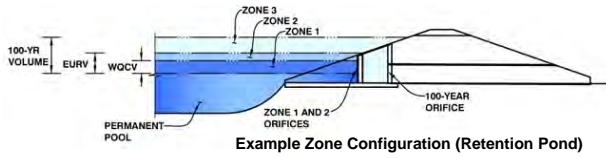


# DETENTION BASIN OUTLET STRUCTURE DESIGN

MHFD-Detention, Version 4.06 (July 2022)

Project: **Falcon Marketplace**  
Basin ID: **Pond 3 (Southwest)**

SOUTHWEST  
POND 3 AS-BUILT



	Estimated Stage (ft)	Estimated Volume (ac-ft)	Outlet Type
Zone 1 (WQCV)	3.47	0.089	Orifice Plate
Zone 2 (User)	5.17	0.090	Weir&Pipe (Restrict)
Zone 3			
Total (all zones)		0.179	

User Input: Orifice at Underdrain Outlet (typically used to drain WQCV in a Filtration BMP)

Underdrain Orifice Invert Depth =  ft (distance below the filtration media surface)  
Underdrain Orifice Diameter =  inches

Calculated Parameters for Underdrain  
Underdrain Orifice Area =  ft<sup>2</sup>  
Underdrain Orifice Centroid =  feet

User Input: Orifice Plate with one or more orifices or Elliptical Slot Weir (typically used to drain WQCV and/or EURV in a sedimentation BMP)

Centroid of Lowest Orifice =  ft (relative to basin bottom at Stage = 0 ft)  
Depth at top of Zone using Orifice Plate =  ft (relative to basin bottom at Stage = 0 ft)  
Orifice Plate: Orifice Vertical Spacing =  inches  
Orifice Plate: Orifice Area per Row =  sq. inches

Calculated Parameters for Plate  
WQ Orifice Area per Row =  ft<sup>2</sup>  
Elliptical Half-Width =  feet  
Elliptical Slot Centroid =  feet  
Elliptical Slot Area =  ft<sup>2</sup>

User Input: Stage and Total Area of Each Orifice Row (numbered from lowest to highest)

	Row 1 (required)	Row 2 (optional)	Row 3 (optional)	Row 4 (optional)	Row 5 (optional)	Row 6 (optional)	Row 7 (optional)	Row 8 (optional)
Stage of Orifice Centroid (ft)	0.00	1.00	2.00					
Orifice Area (sq. inches)	0.40	0.30	0.30					

	Row 9 (optional)	Row 10 (optional)	Row 11 (optional)	Row 12 (optional)	Row 13 (optional)	Row 14 (optional)	Row 15 (optional)	Row 16 (optional)
Stage of Orifice Centroid (ft)								
Orifice Area (sq. inches)								

User Input: Vertical Orifice (Circular or Rectangular)

	Not Selected	Not Selected	
Invert of Vertical Orifice =	<input type="text" value=""/>	<input type="text" value=""/>	ft (relative to basin bottom at Stage = 0 ft)
Depth at top of Zone using Vertical Orifice =	<input type="text" value=""/>	<input type="text" value=""/>	ft (relative to basin bottom at Stage = 0 ft)
Vertical Orifice Diameter =	<input type="text" value=""/>	<input type="text" value=""/>	inches

Calculated Parameters for Vertical Orifice  
Vertical Orifice Area =  ft<sup>2</sup>  
Vertical Orifice Centroid =  feet

User Input: Overflow Weir (Dropbox with Flat or Sloped Gate and Outlet Pipe OR Rectangular/Trapezoidal Weir and No Outlet Pipe)

	Zone 2 Weir	Not Selected	
Overflow Weir Front Edge Height, Ho =	<input type="text" value="3.50"/>	<input type="text" value=""/>	ft (relative to basin bottom at Stage = 0 ft)
Overflow Weir Front Edge Length =	<input type="text" value="4.00"/>	<input type="text" value=""/>	feet
Overflow Weir Gate Slope =	<input type="text" value="0.00"/>	<input type="text" value=""/>	H:V
Horiz. Length of Weir Sides =	<input type="text" value="4.00"/>	<input type="text" value=""/>	feet
Overflow Gate Type =	<input type="text" value="Type C Gate"/>	<input type="text" value=""/>	
Debris Clogging % =	<input type="text" value="50%"/>	<input type="text" value=""/>	%

Calculated Parameters for Overflow Weir  
Height of Gate Upper Edge, H<sub>1</sub> =  feet  
Overflow Weir Slope Length =  feet  
Gate Open Area / 100-yr Orifice Area =   
Overflow Gate Open Area w/o Debris =   
Overflow Gate Open Area w/ Debris =

User Input: Outlet Pipe w/ Flow Restriction Plate (Circular Orifice, Restrictor Plate, or Rectangular Orifice)

	Zone 2 Restrictor	Not Selected	
Depth to Invert of Outlet Pipe =	<input type="text" value="0.00"/>	<input type="text" value=""/>	ft (distance below basin bottom at Stage = 0 ft)
Outlet Pipe Diameter =	<input type="text" value="24.00"/>	<input type="text" value=""/>	inches
Restrictor Plate Height Above Pipe Invert =	<input type="text" value="12.00"/>	<input type="text" value=""/>	inches

Calculated Parameters for Outlet Pipe w/ Flow Restriction Plate  
Outlet Orifice Area =  ft<sup>2</sup>  
Outlet Orifice Centroid =  feet  
Half-Central Angle of Restrictor Plate on Pipe =  degrees

User Input: Emergency Spillway (Rectangular or Trapezoidal)

Spillway Invert Stage =  ft (relative to basin bottom at Stage = 0 ft)  
Spillway Crest Length =  feet  
Spillway End Slopes =  H:V  
Freeboard above Max Water Surface =  feet

Calculated Parameters for Spillway  
Spillway Design Flow Depth =  feet  
Stage at Top of Freeboard =  feet  
Basin Area at Top of Freeboard =  acres  
Basin Volume at Top of Freeboard =  acre-ft

## Routed Hydrograph Results

The user can override the default CUHP hydrographs and runoff volumes by entering new values in the Inflow Hydrographs table (Columns W through AF)

	WQCV	EURV	2 Year	5 Year	10 Year	25 Year	50 Year	100 Year
Design Storm Return Period =	N/A	N/A	1.19	1.50	1.75	2.00	2.25	2.52
One-Hour Rainfall Depth (in) =	0.089	0.292	0.217	0.289	0.347	0.440	0.532	0.648
CUHP Runoff Volume (acre-ft) =	N/A	N/A	0.217	0.289	0.347	0.440	0.532	0.648
Inflow Hydrograph Volume (acre-ft) =	N/A	N/A	0.0	0.1	0.1	0.7	1.4	2.4
CUHP Predevelopment Peak Q (cfs) =	N/A	N/A	0.01	0.01	0.01	0.13	0.27	0.44
OPTIONAL Override Predevelopment Peak Q (cfs) =	N/A	N/A	0.01	0.01	0.01	0.13	0.27	0.44
Predevelopment Unit Peak Flow, q (cfs/acre) =	N/A	N/A	2.4	3.3	3.9	5.4	6.7	8.3
Peak Inflow Q (cfs) =	N/A	N/A	1.7	2.7	3.6	5.8	6.6	9.8
Peak Outflow Q (cfs) =	0.1	16.8	N/A	49.2	46.1	8.1	4.6	4.2
Ratio Peak Outflow to Predevelopment Q =	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Structure Controlling Flow =	Plate	Outlet Plate 1	Overflow Weir 1	Overflow Weir 1	Overflow Weir 1	Overflow Weir 1	Overflow Weir 1	Overflow Weir 1
Max Velocity through Gate 1 (fps) =	N/A	1.29	0.15	0.2	0.3	0.5	0.6	0.9
Max Velocity through Gate 2 (fps) =	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Time to Drain 97% of Inflow Volume (hours) =	38	29	36	34	32	30	28	26
Time to Drain 99% of Inflow Volume (hours) =	41	35	42	41	40	39	38	36
Maximum Ponding Depth (ft) =	3.47	4.24	3.66	3.72	3.76	3.87	3.90	4.02
Area at Maximum Ponding Depth (acres) =	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Maximum Volume Stored (acre-ft) =	0.089	0.126	0.097	0.100	0.102	0.107	0.109	0.115

PREPARED BY:  
  
**DREXEL, BARRELL & CO.**  
 Engineers • Surveyors  
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 (719)260-0887  
 BOULDER • COLORADO SPRINGS

CLIENT:  
**HUMMEL INVESTMENTS, LLC**  
 8117 PRESTON ROAD, SUITE 120  
 DALLAS, TEXAS 75225  
 (214) 416-9820

OVERLOT GRADING, POND SR4 & UTILITY  
 CONSTRUCTION DRAWINGS FOR  
**FALCON MARKETPLACE**  
 FALCON, COLORADO

ISSUE	DATE
1ST SUBMITTAL	6-20-17
RESUBMITTAL	9-6-18

DESIGNED BY: TDM  
 DRAWN BY: KGV  
 CHECKED BY: TDM  
 FILE NAME:



PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF DREXEL, BARRELL & CO.

DRAWING SCALE:  
 HORIZONTAL: 1"=50'  
 VERTICAL: 1"=5'

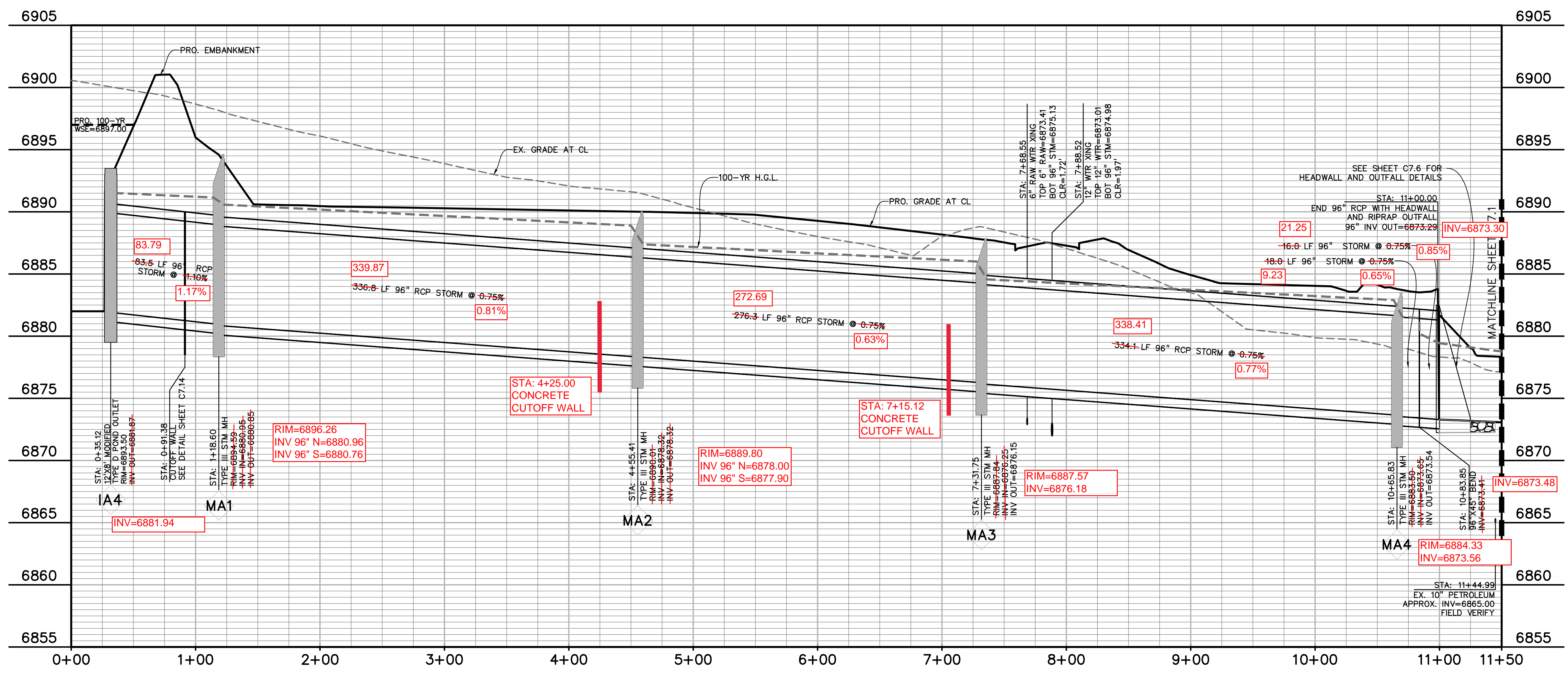
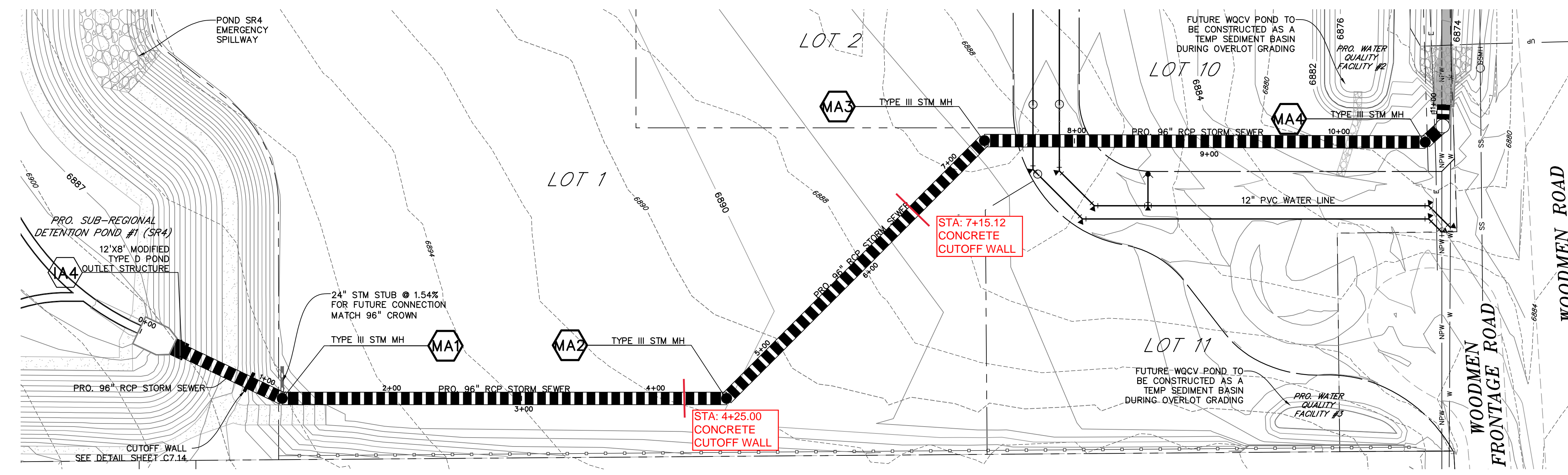
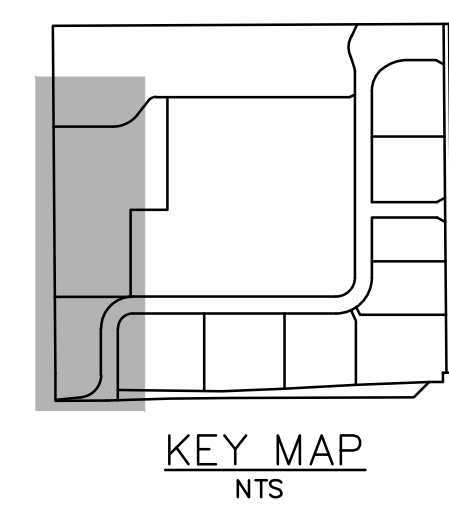
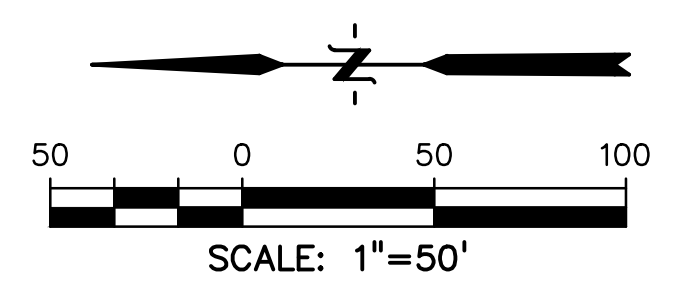
**STORM SEWER PLAN & PROFILE**

PROJECT NO. 20988-00CSCV  
 DRAWING NO.

**C7.0**

**LEGEND**

- PROPERTY LINE .....
- LOT LINE .....
- EASEMENT .....
- CURB & GUTTER .....
- SIDEWALK .....
- PRO. WATER LINE .....
- PRO. FIRE HYDRANT .....
- PRO. RAW WATER .....
- PRO. SANITARY SEWER .....
- PRO. STORM SEWER .....
- EX. OVERHEAD ELECTRIC .....
- EX. SANITARY SEWER .....
- EX. PETROLEUM .....
- EX. GAS .....
- EX. RAW WATER .....
- EX. WATER .....
- EX. STORM SEWER .....



POND #1 (SR4) OUTFALL TO OPEN CHANNEL

AS-BUILT  
 10-17-2023

EPC 10/10/18  
 EL PASO COUNTY FILE NO: SP-17-001  
 CDR-16-007

PREPARED BY:



CLIENT:

**HUMMEL INVESTMENTS, LLC**  
8117 PRESTON ROAD, SUITE 120  
DALLAS, TEXAS 75225  
(214) 416-9820

OVERLOT GRADING, POND SR4 & UTILITY  
CONSTRUCTION DRAWINGS FOR  
**FALCON MARKETPLACE**  
FALCON, COLORADO

ISSUE	DATE
1ST SUBMITTAL	6-20-17
RESUBMITTAL	9-6-18

DESIGNED BY: TDM  
DRAWN BY: KGV  
CHECKED BY: TDM  
FILE NAME:



PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF DREXEL, BARRELL & CO.

DRAWING SCALE:  
HORIZONTAL: 1"=50'  
VERTICAL: 1"=5'

**STORM SEWER PLAN & PROFILE**

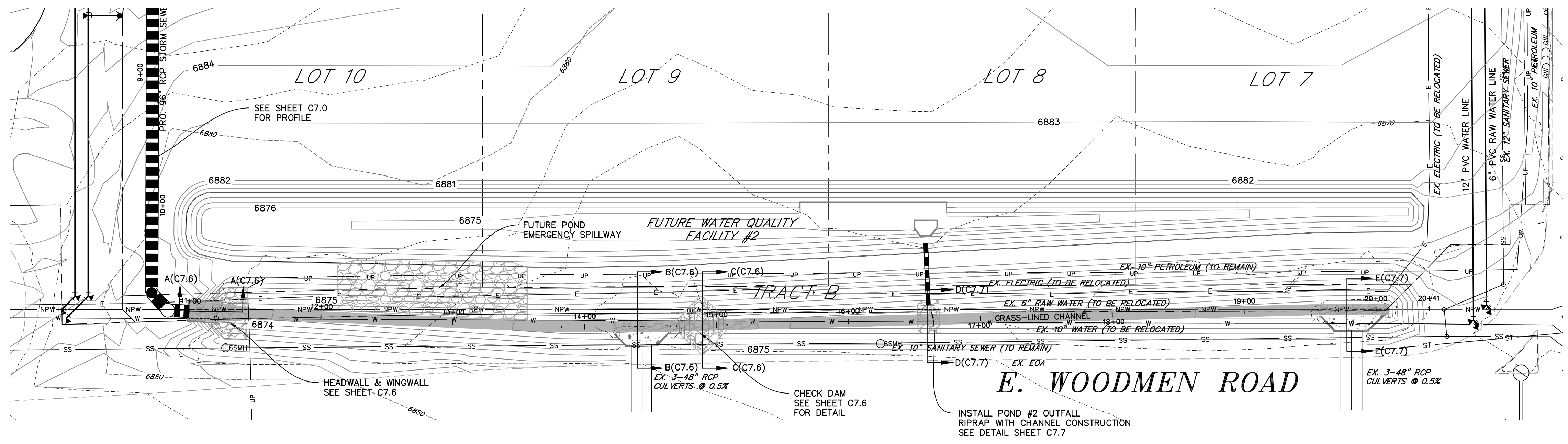
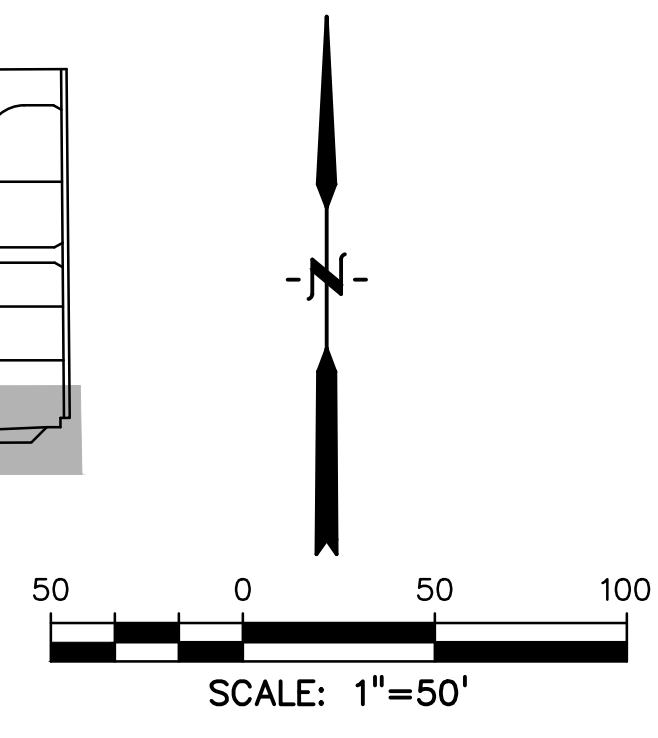
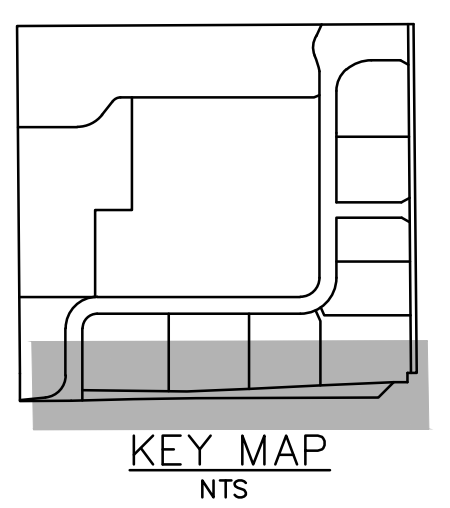
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DRAWING NO.

**C7.1**

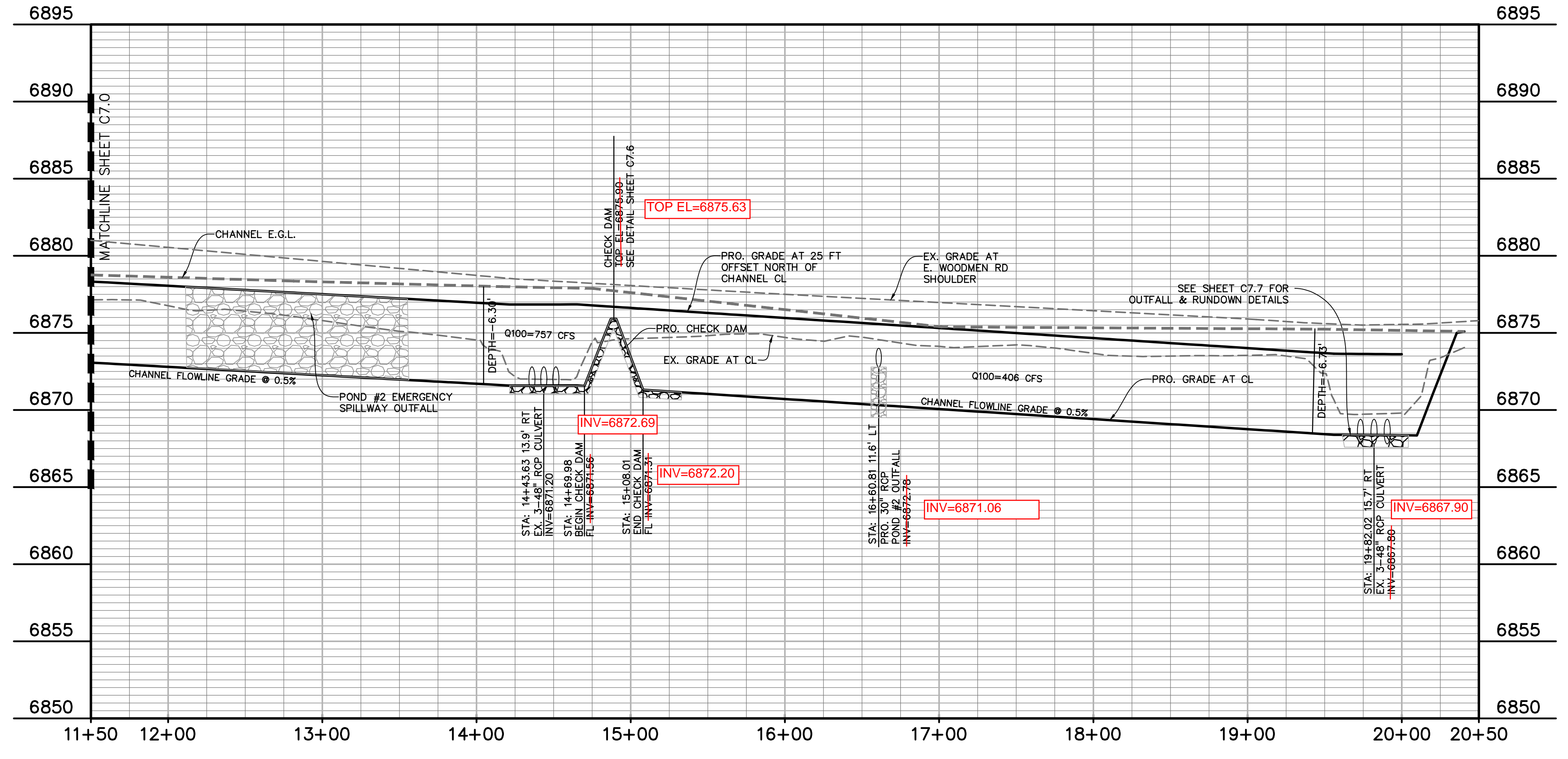
SHEET: 8 OF 27

**LEGEND**

- PROPERTY LINE .....
- LOT LINE .....
- EASEMENT .....
- CURB & GUTTER .....
- SIDEWALK .....
- PRO. WATER LINE .....
- PRO. FIRE HYDRANT .....
- PRO. RAW WATER .....
- PRO. SANITARY SEWER .....
- PRO. STORM SEWER .....
- EX. OVERHEAD ELECTRIC.....
- EX. SANITARY SEWER.....
- EX. PETROLEUM .....
- EX. GAS .....
- EX. RAW WATER .....
- EX. WATER .....
- EX. STORM SEWER .....



SEE SHEET AB2 FOR CHANNEL AS-BUILT CONTOURS



OPEN CHANNEL ALONG E. WOODMEN ROAD

AS-BUILT  
10-17-2023



Know what's below.  
Call before you dig.  
CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

EPC 10/10/18  
EL PASO COUNTY FILE NO: SP-17-001  
CDR-16-007

**LEGEND**

PROPERTY LINE	---
LOT LINE	----
CURB & GUTTER	=====
SIDEWALK	=====
PRO. WATER LINE	—○—
PRO. FIRE HYDRANT	—□—
PRO. RAW WATER	—◇—
PRO. SANITARY SEWER	—S—
PRO. STORM SEWER	—S—
EX. OVERHEAD ELECTRIC	—OE—
EX. SANITARY SEWER	—SS—
EX. GAS	—G—


PREPARED BY:  
  
**DREXEL, BARRELL & CO.**  
 Engineers • Surveyors  
 3 SOUTH 7TH STREET  
 COLORADO SPGS, COLORADO 80905  
 CONTACT: TIM D. McCONNELL, P.E.  
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CLIENT:  
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OVERLOT GRADING, POND SR4 & UTILITY  
 CONSTRUCTION DRAWINGS FOR

**FALCON MARKETPLACE**  
 FALCON, COLORADO

ISSUE	DATE
1ST SUBMITTAL	6-20-17
RESUBMITTAL	9-6-18
DESIGNED BY:	TDM
DRAWN BY:	KGV
CHECKED BY:	TDM
FILE NAME:	

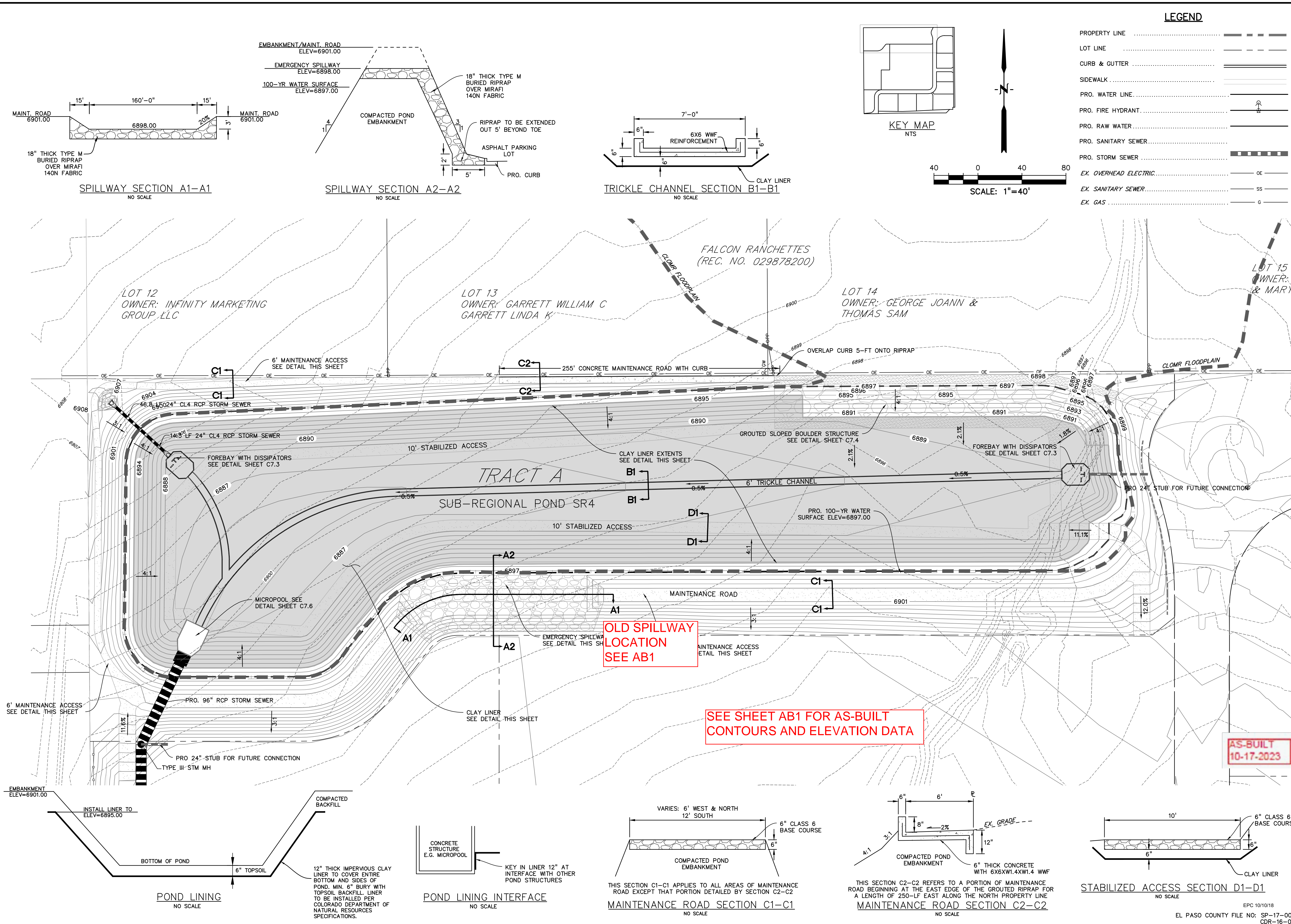
  
 PREPARED UNDER MY DIRECT  
 SUPERVISION FOR AND ON BEHALF  
 OF DREXEL, BARRELL & CO.  
 DRAWING SCALE:  
 HORIZONTAL: 1"=40'  
 VERTICAL: N/A

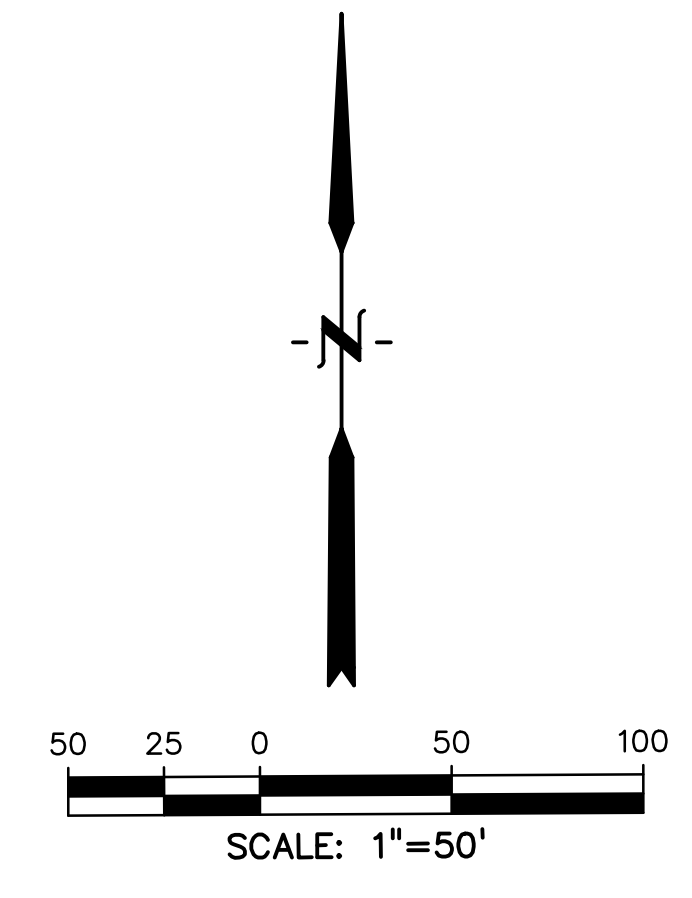
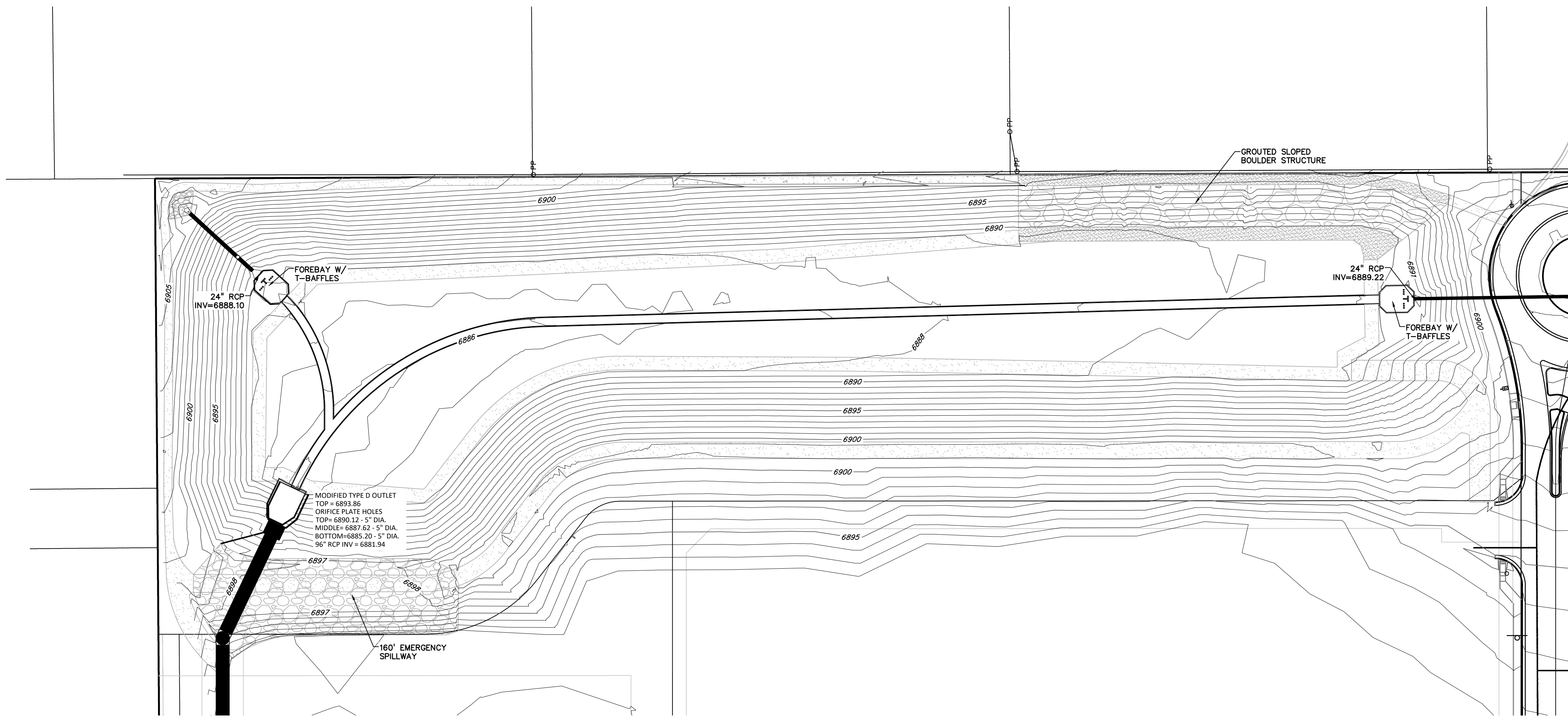
**SUB-REGIONAL  
 POND #1 (SR4)**

PROJECT NO. 20988-00CSV  
 DRAWING NO.

**C7.2**

SHEET: 9 OF 27





PREPARED BY:



**DREXEL, BARRELL & CO.**  
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 COLORADO SPGS, COLORADO 80903  
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 COLORADO SPRINGS • LAFAYETTE

CLIENT:

EVERGREEN DEVCO, INC.  
 2390 E. CAMELBACK RD,  
 STE 410  
 PHOENIX, AZ 85016

**FALCON MARKETPLACE  
 POND AS-BUILT**  
 EL PASO COUNTY, COLORADO

ISSUE	DATE
INITIAL ISSUE	1/22/24
DESIGNED BY:	KGV
DRAWN BY:	CGH
CHECKED BY:	TDM
FILE NAME:	FM_POND_AB

PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF DREXEL, BARRELL & CO.

DRAWING SCALE:  
 HORIZONTAL: 1"=50'  
 VERTICAL: N/A

**POND 1 (SR4)  
 AS-BUILT**

PROJECT NO. 21187-01CSCV  
 DRAWING NO.

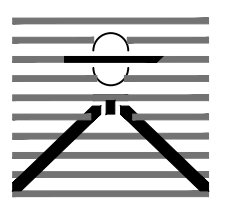
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SHEET: 1 OF 2

**AS-BUILT**  
 1/15/2024

COUNTY FILE NO.: SF19-001

PREPARED BY:



DREXEL, BARRELL & CO.  
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 100 SAWATCH ST., STE. 101  
 COLORADO SPGS, COLORADO 80903  
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 COLORADO SPRINGS • LAFAYETTE

CLIENT:

EVERGREEN DEVCO, INC.  
 2390 E. CAMELBACK RD.  
 STE. 410  
 PHOENIX, AZ 85016

FALCON MARKETPLACE  
 POND AS-BUILTS  
 EL PASO COUNTY, COLORADO

ISSUE	DATE
INITIAL ISSUE	1/22/24

DESIGNED BY: KGV  
 DRAWN BY: CGH  
 CHECKED BY: TDM  
 FILE NAME: FM\_POND\_AB

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 SUPERVISION FOR AND ON  
 BEHALF OF  
 DREXEL, BARRELL & CO.

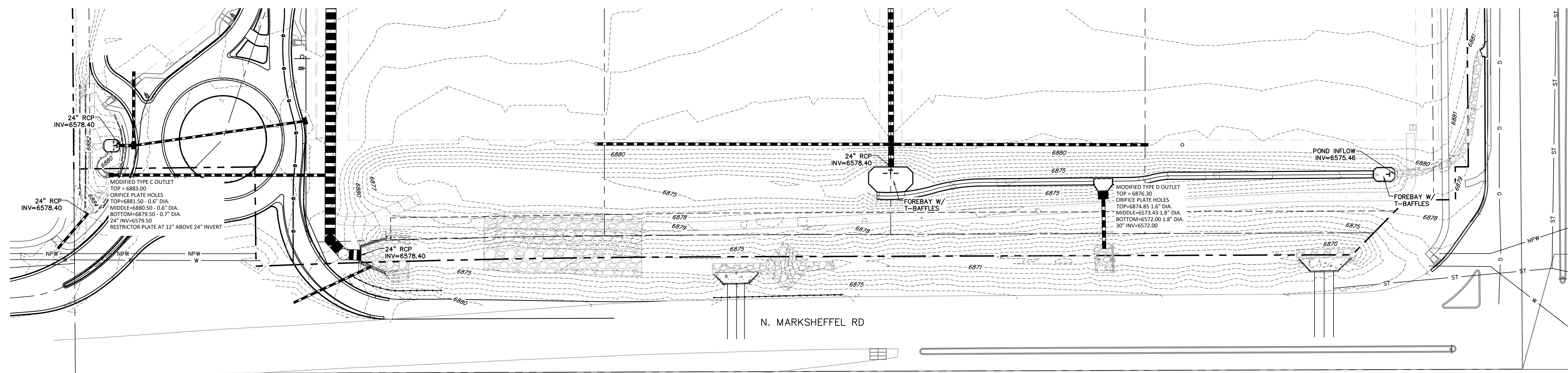
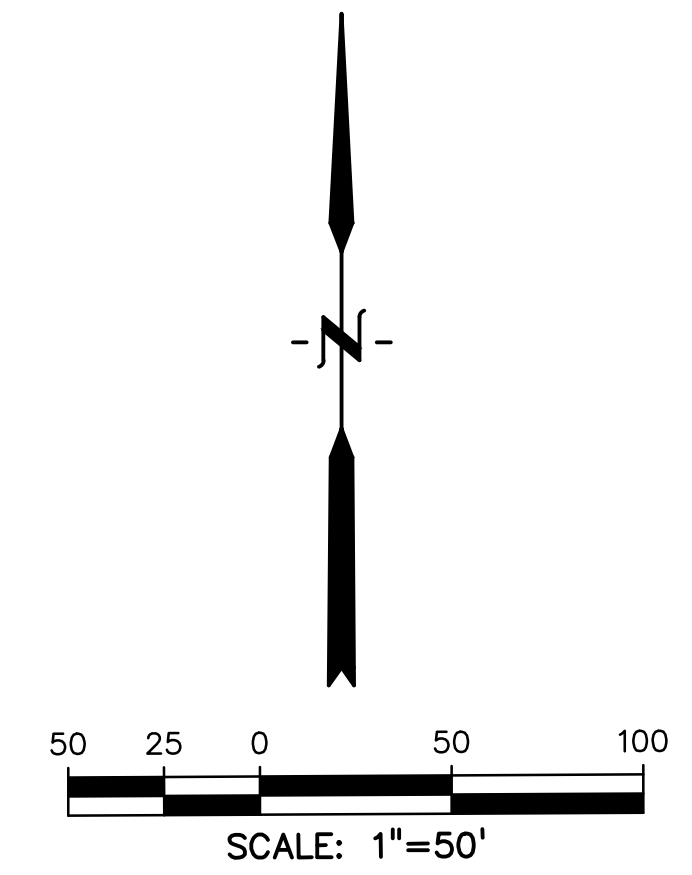
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 VERTICAL: N/A

PONDS 2&3  
 AS-BUILT

PROJECT NO. 21187-01CSCV  
 DRAWING NO.

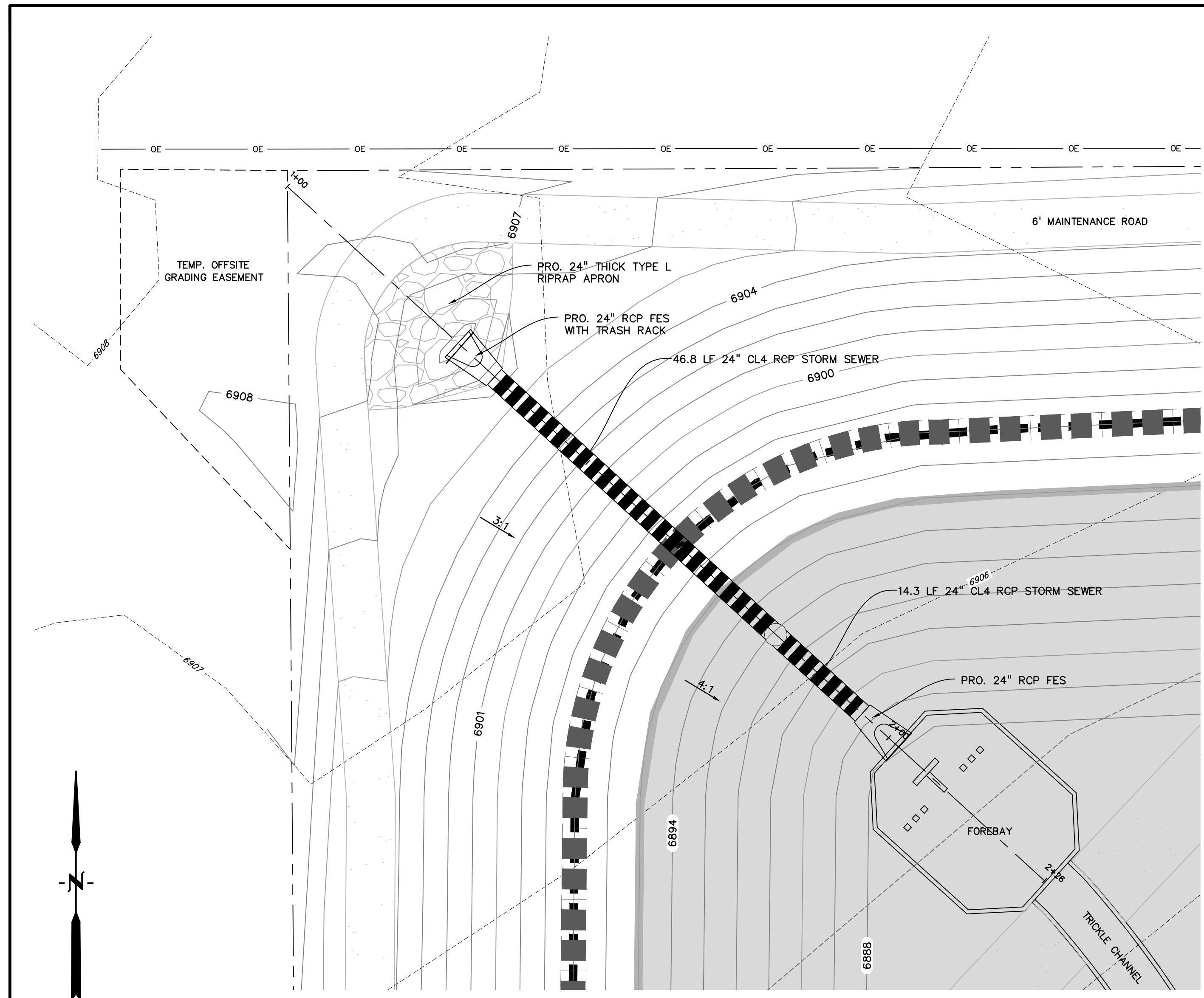
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SHEET: 2 OF 2

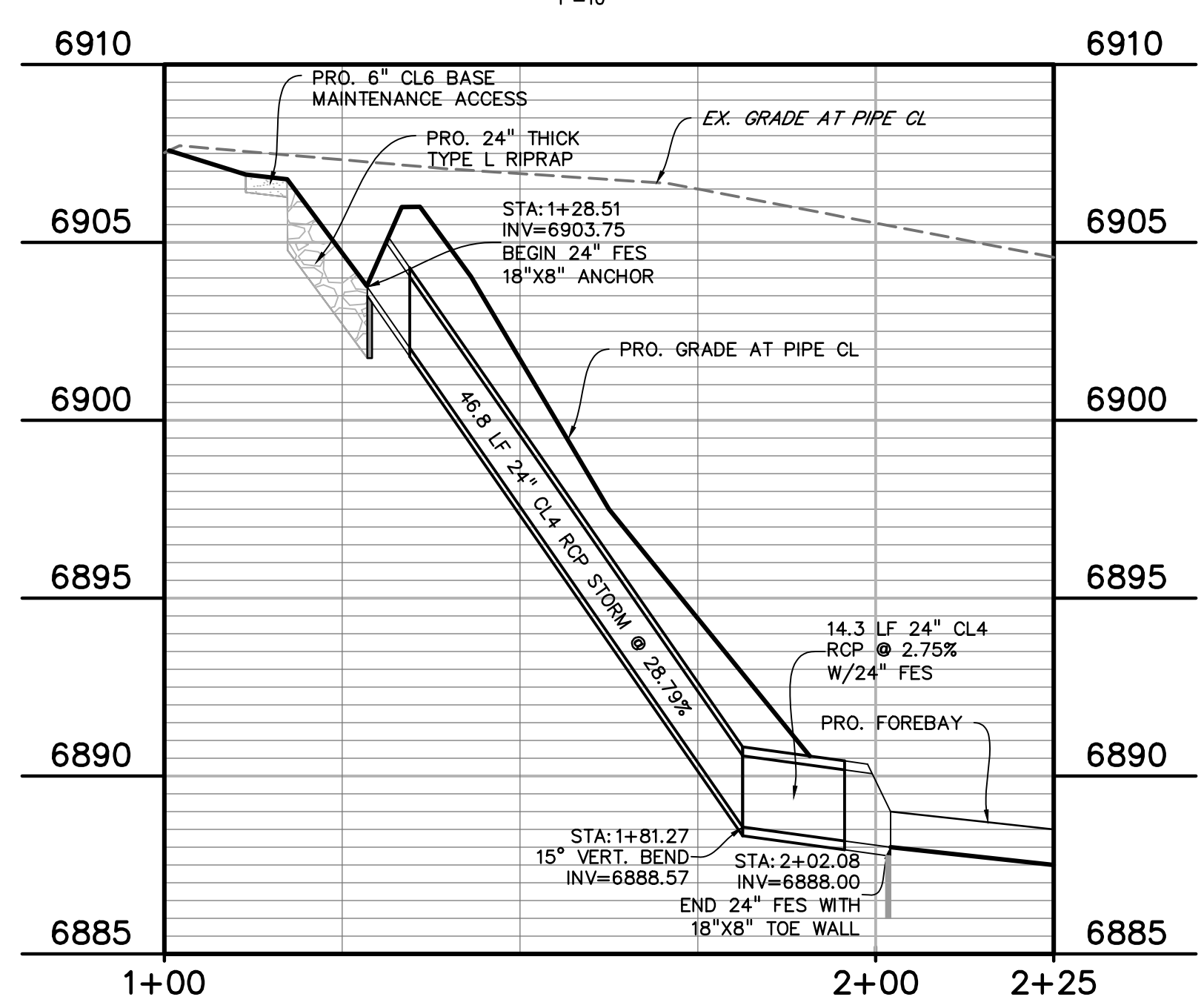


*AS-BUILT*  
 1/15/2024

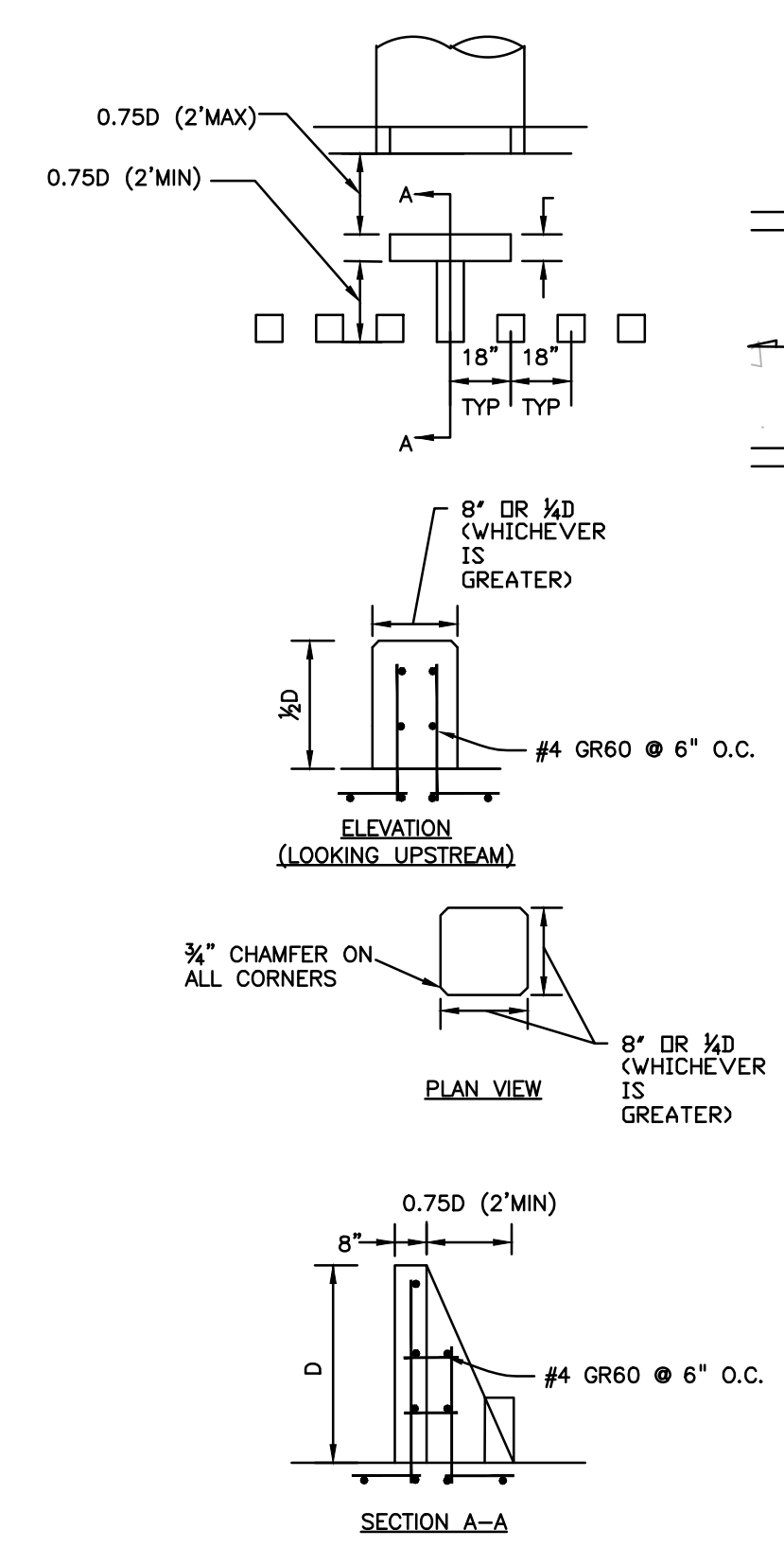
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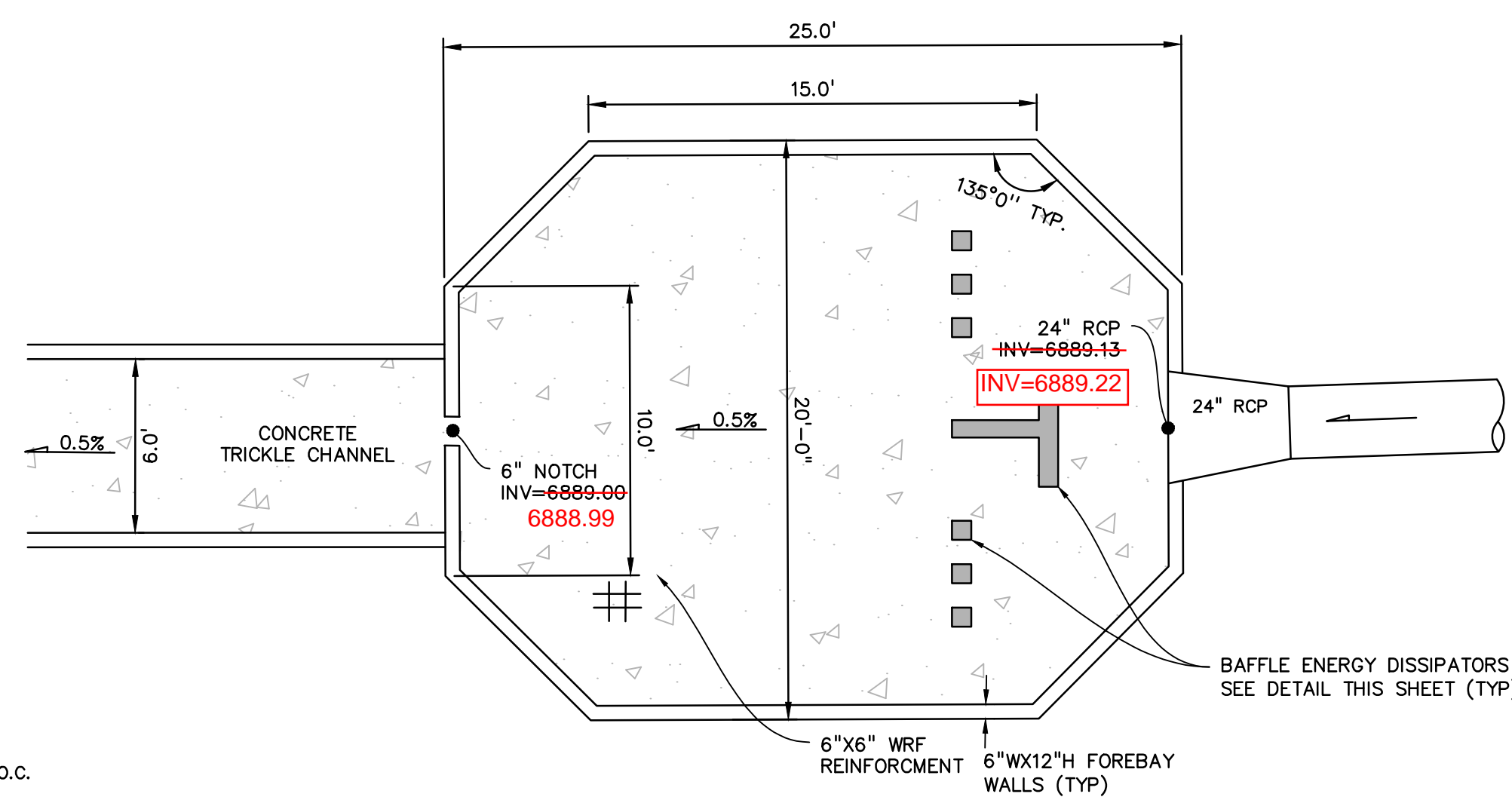
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1"=10'



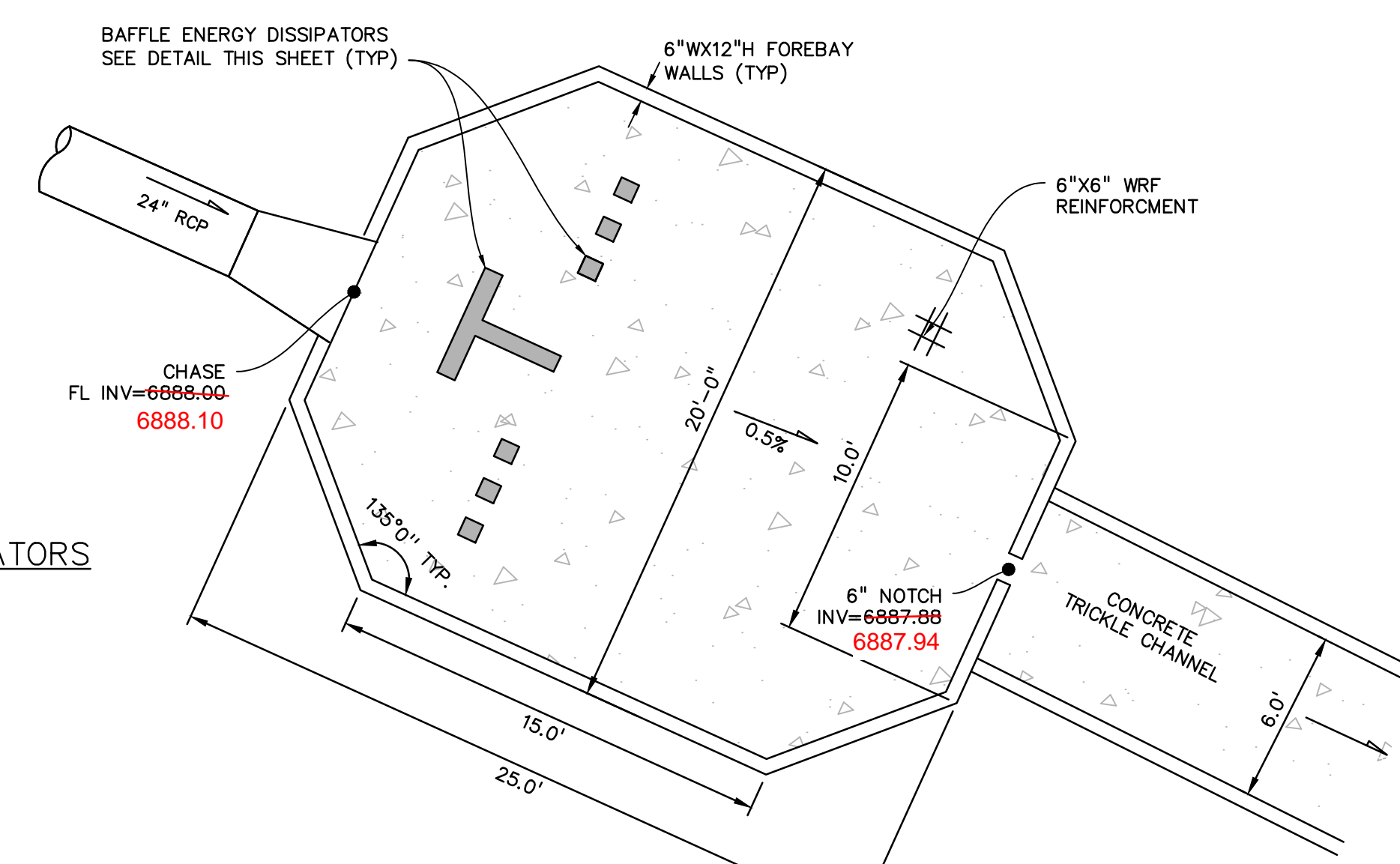
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1"=20'



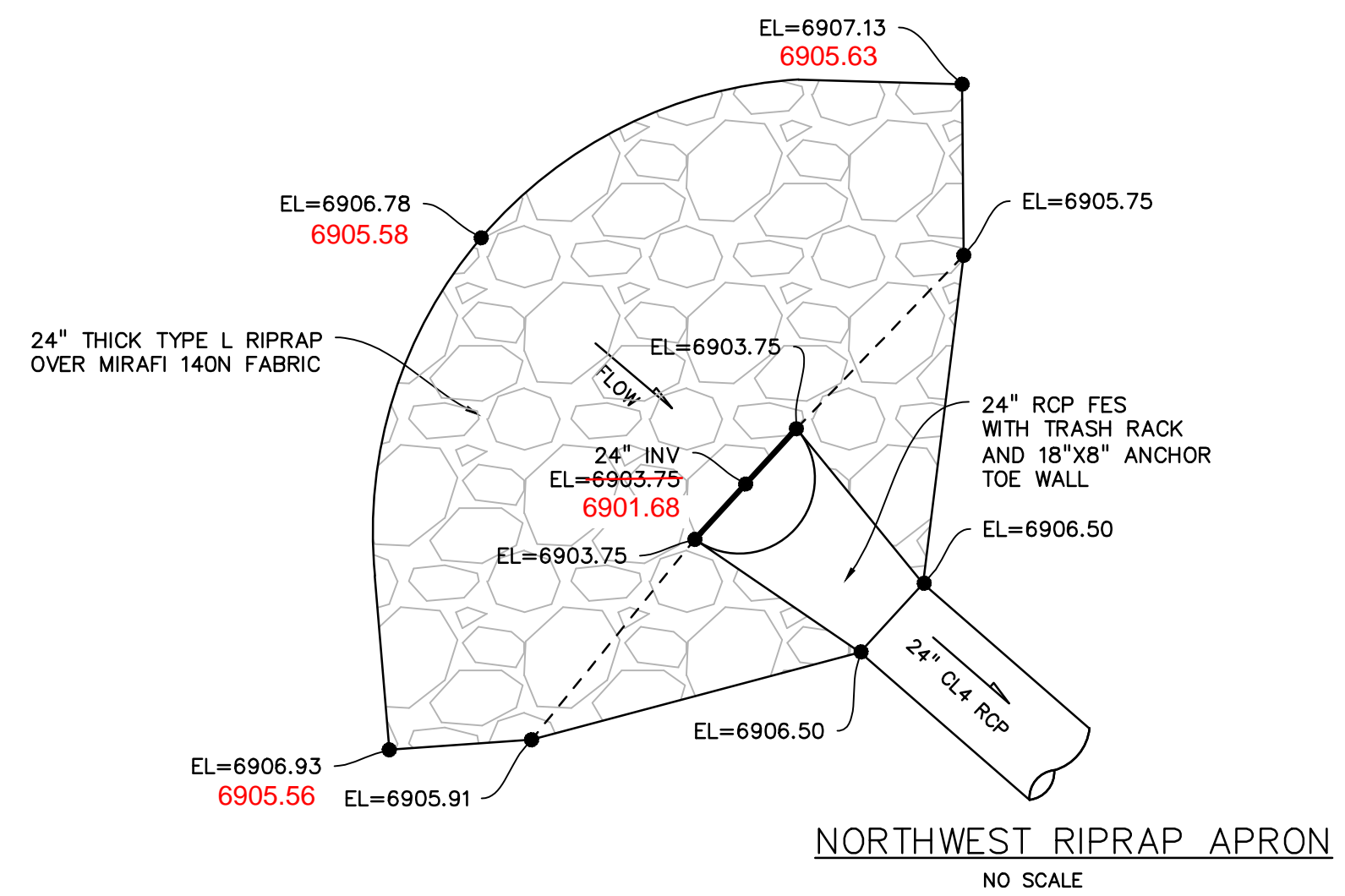
FOREBAY BAFFLE ENERGY DISSIPATORS  
NO SCALE



EAST FOREBAY  
NO SCALE



NORTHWEST FOREBAY  
NO SCALE



NORTHWEST RIPRAP APRON  
NO SCALE

PREPARED BY:  
  
DREXEL, BARRELL & CO.  
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CLIENT:  
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OVERLOT GRADING, POND SR4 & UTILITY  
CONSTRUCTION DRAWINGS FOR  
**FALCON  
MARKETPLACE**  
FALCON, COLORADO

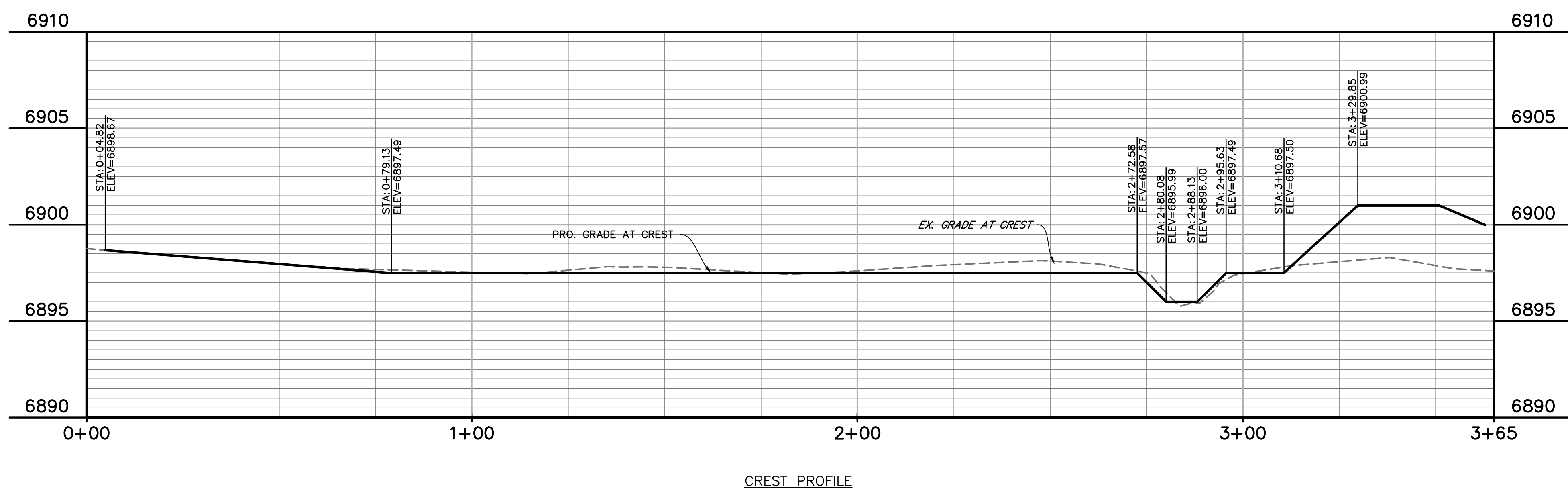
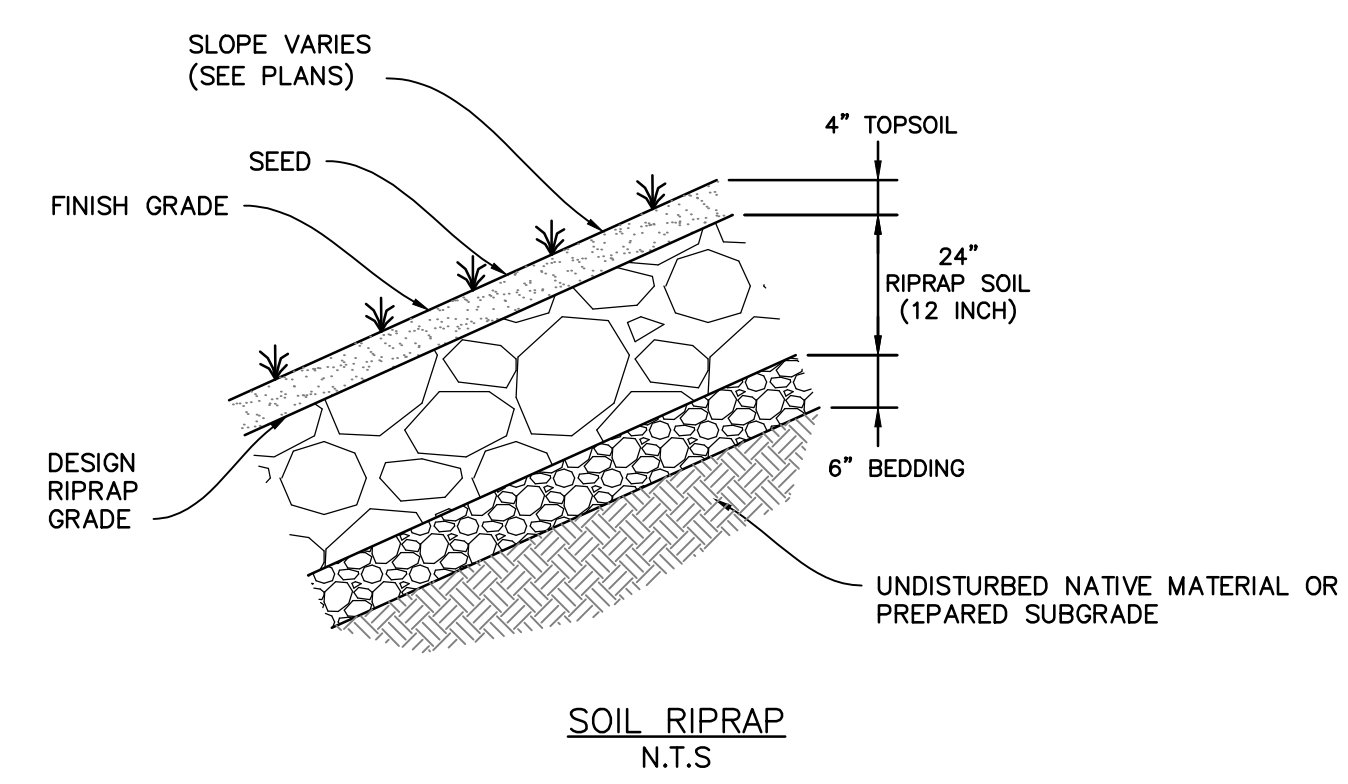
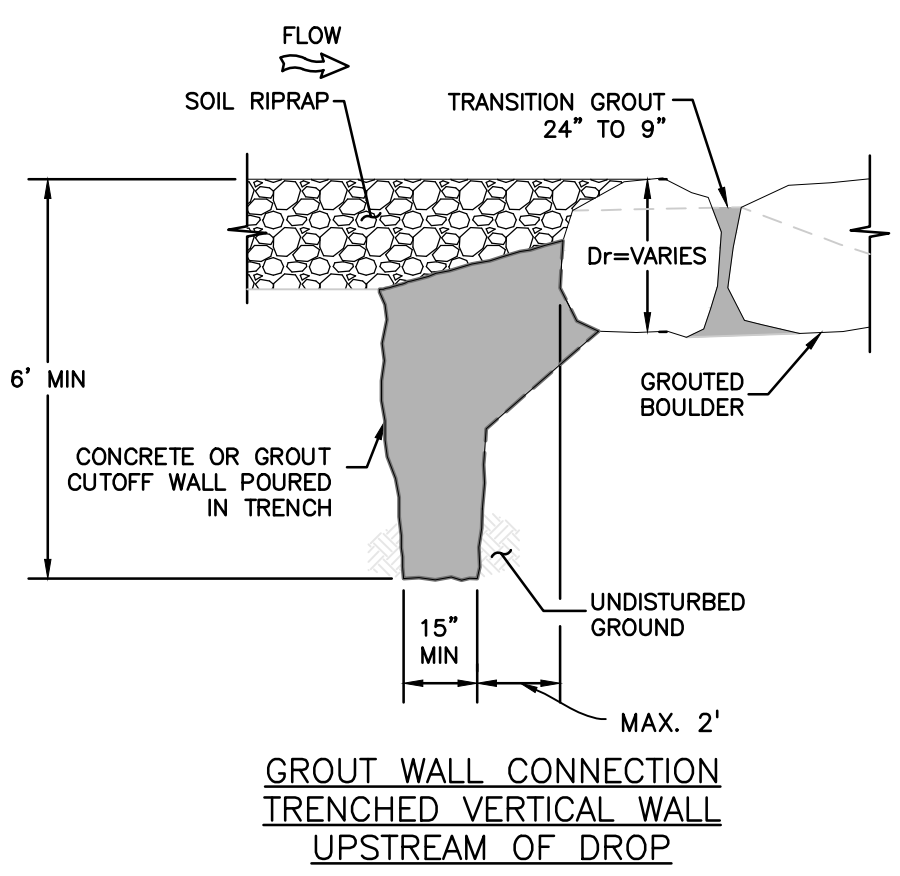
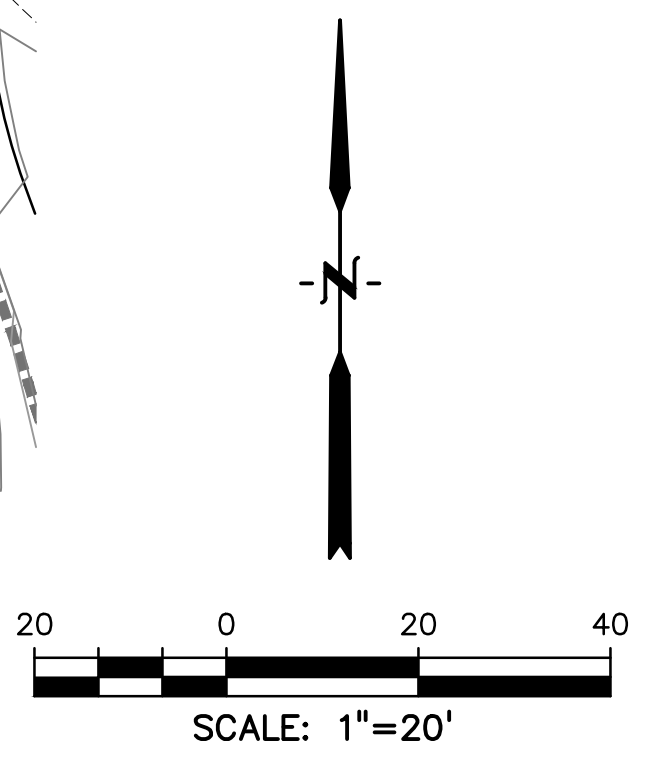
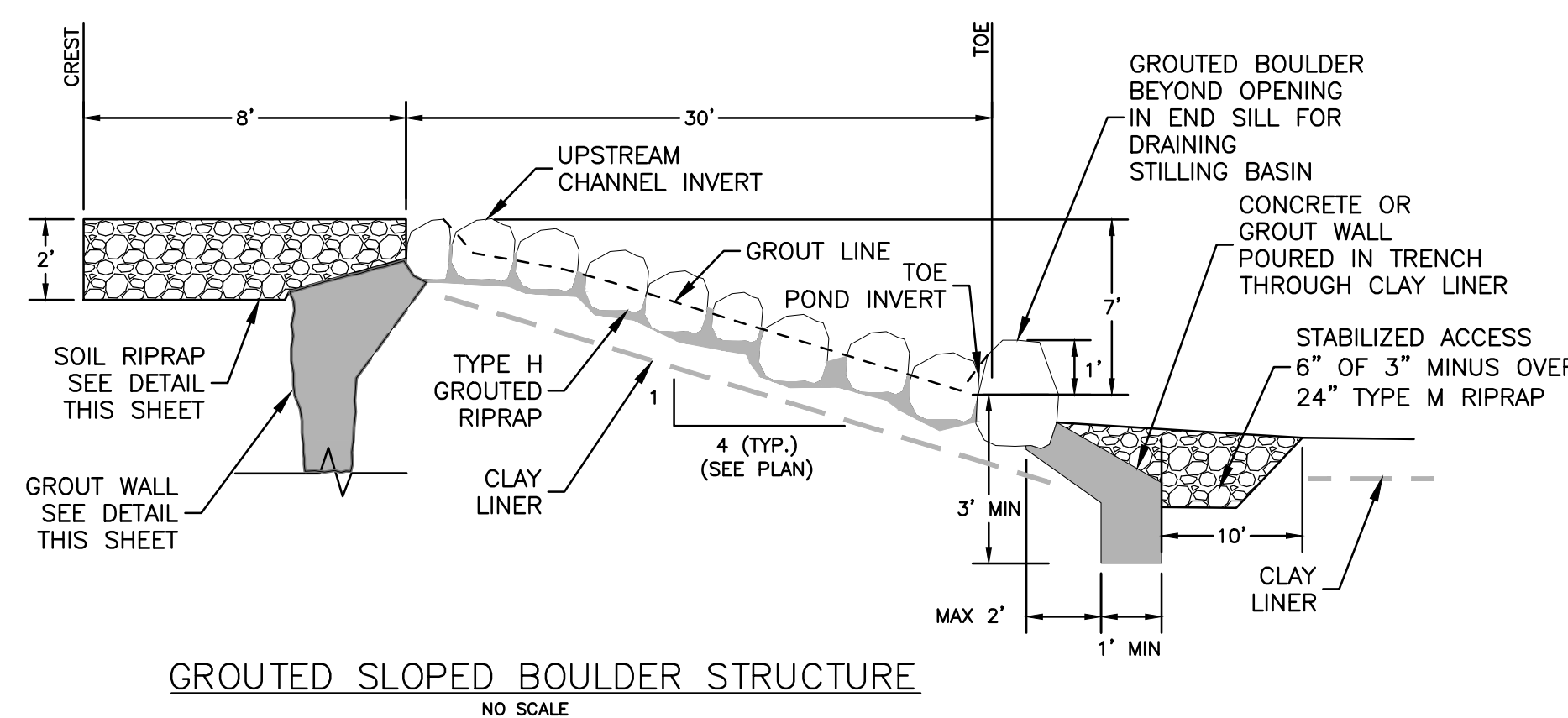
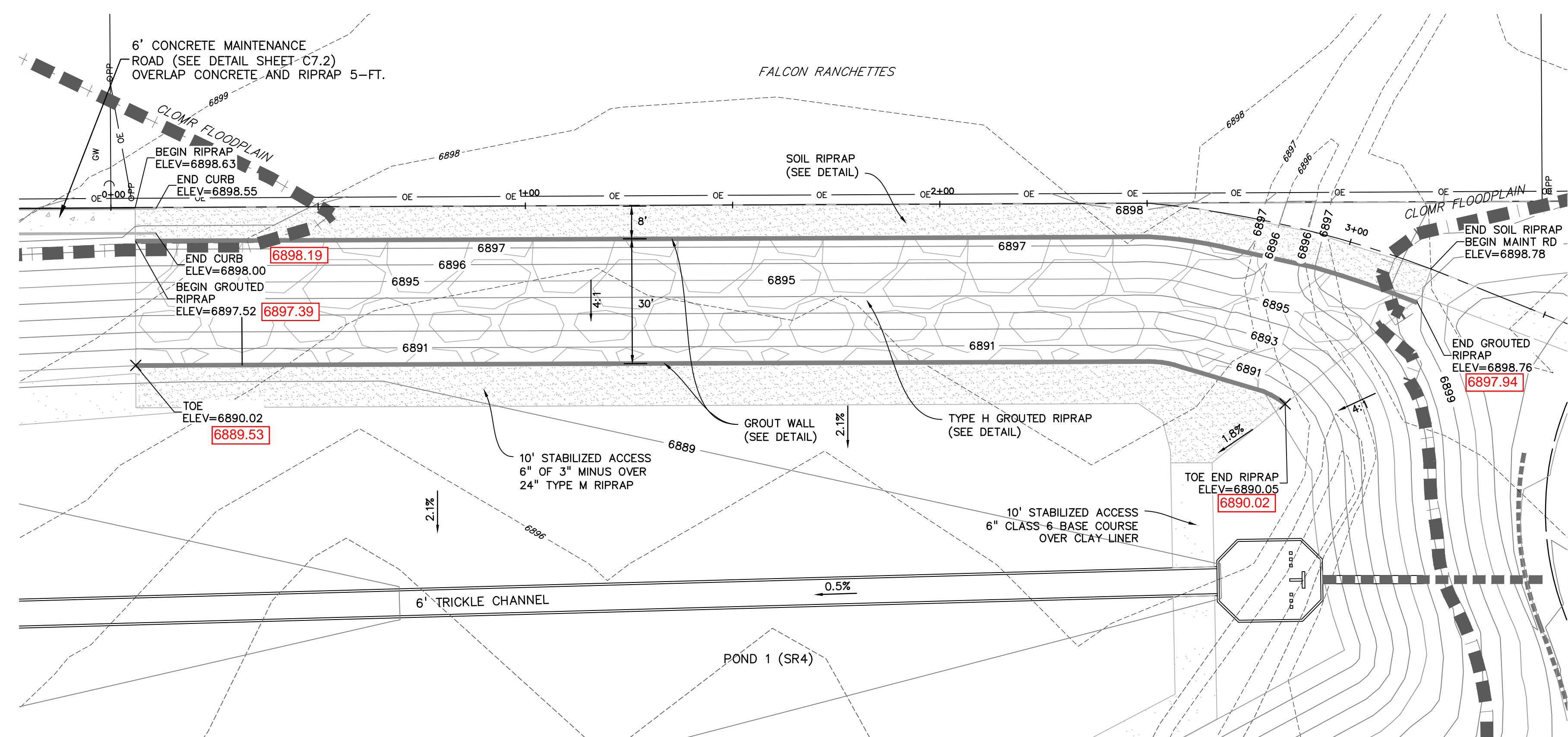
ISSUE	DATE
1ST SUBMITTAL	6-20-17
RESUBMITTAL	9-6-18
DESIGNED BY:	TDM
DRAWN BY:	KGV
CHECKED BY:	TDM
FILE NAME:	

PREPARED UNDER MY DIRECT  
SUPERVISION FOR AND ON BEHALF  
OF DREXEL, BARRELL & CO.  
DRAWING SCALE:  
HORIZONTAL: N/A  
VERTICAL: N/A

**POND #1 (SR4)  
DETAILS**  
PROJECT NO. 20988-00CSCV  
DRAWING NO.

**AS-BUILT**  
10-17-2023

**C7.3**



PREPARED BY:  
  
**DREXEL, BARRELL & CO.**  
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OVERLOT GRADING, POND SR4 & UTILITY  
 CONSTRUCTION DRAWINGS FOR  
**FALCON**  
**MARKETPLACE**  
 FALCON, COLORADO

ISSUE	DATE
1ST SUBMITTAL	6-20-17
RESUBMITTAL	9-6-18

DESIGNED BY: TDM  
 DRAWN BY: KGV  
 CHECKED BY: TDM  
 FILE NAME:



PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF DREXEL, BARRELL & CO.

DRAWING SCALE:  
 HORIZONTAL: 1"=20'  
 VERTICAL: N/A

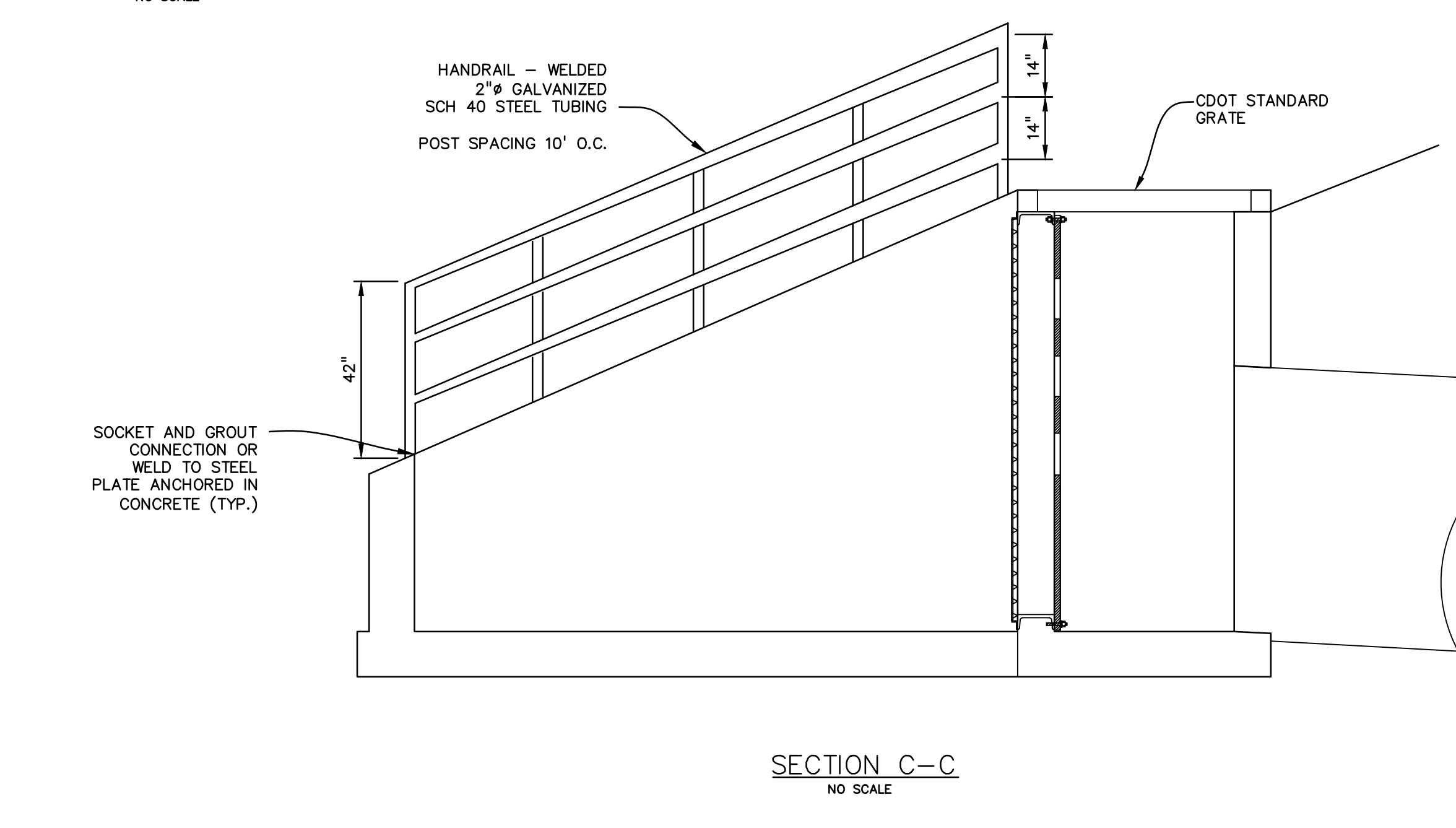
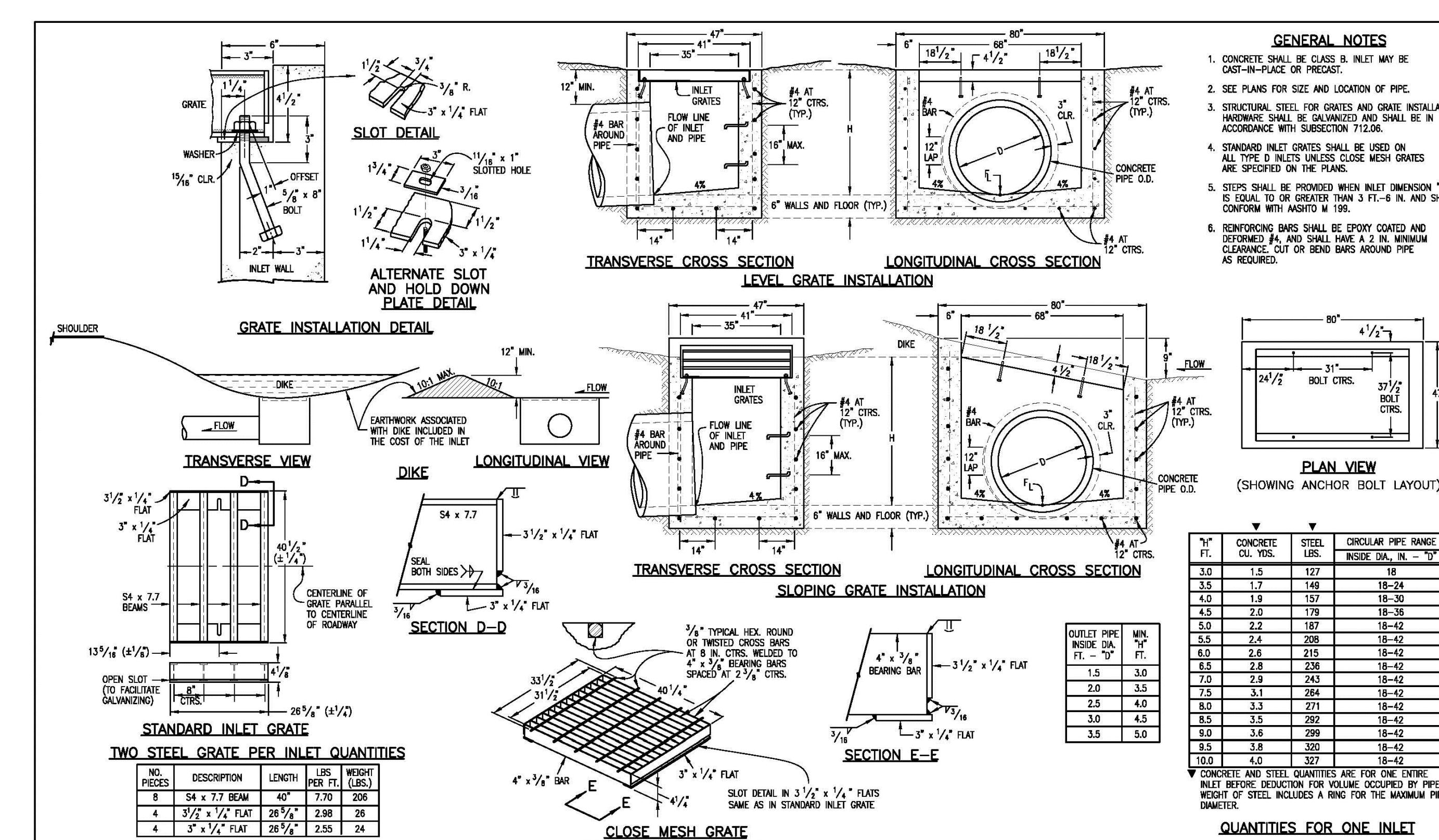
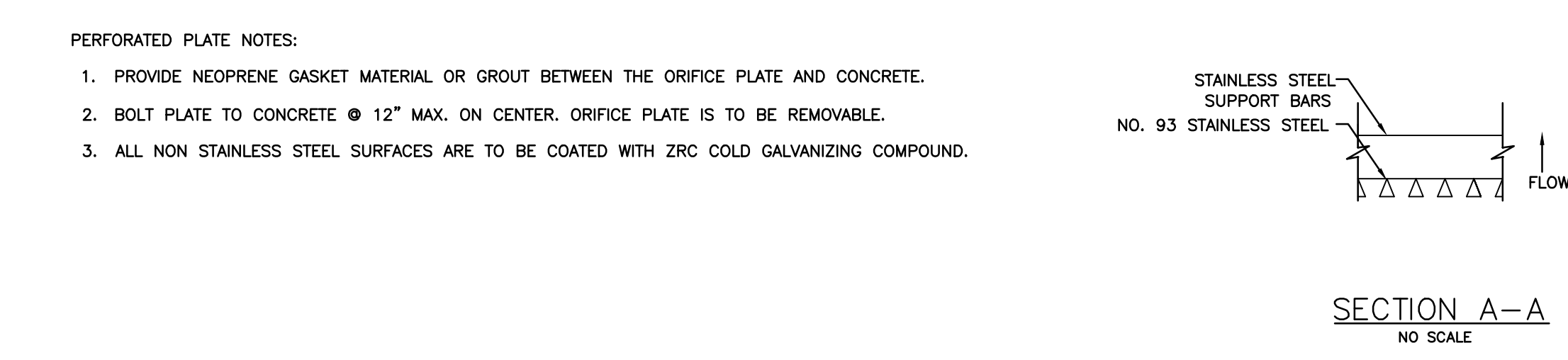
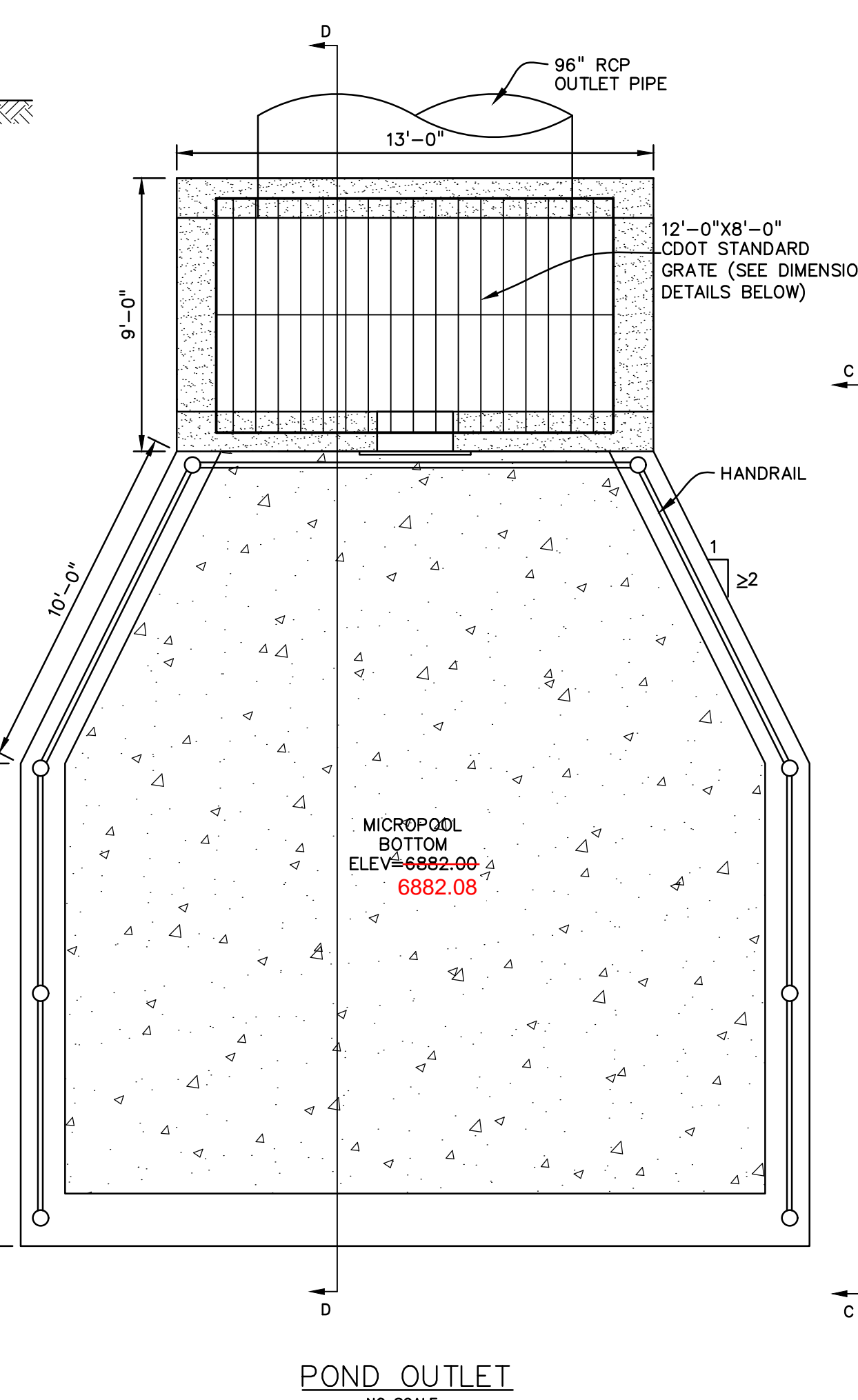
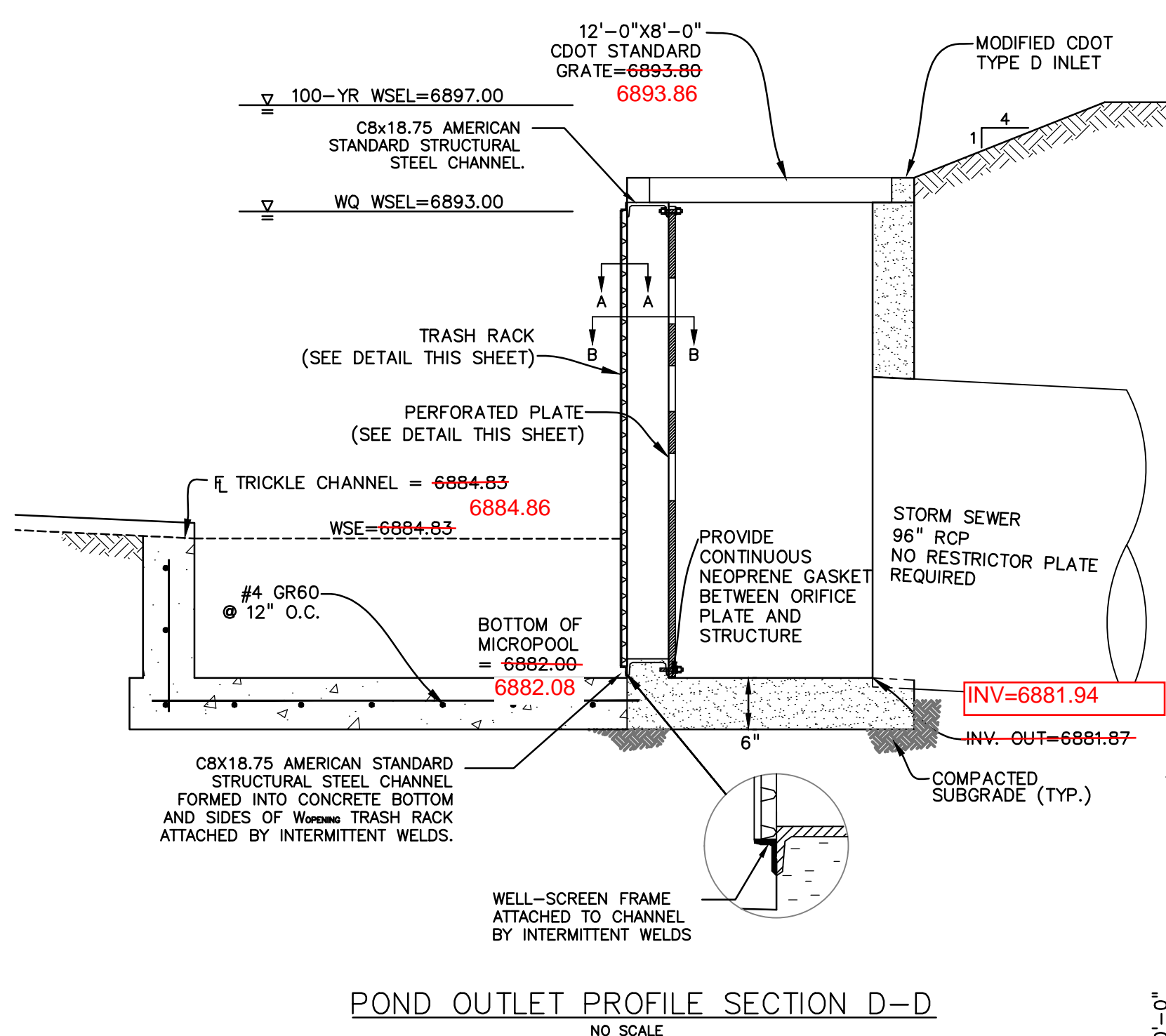
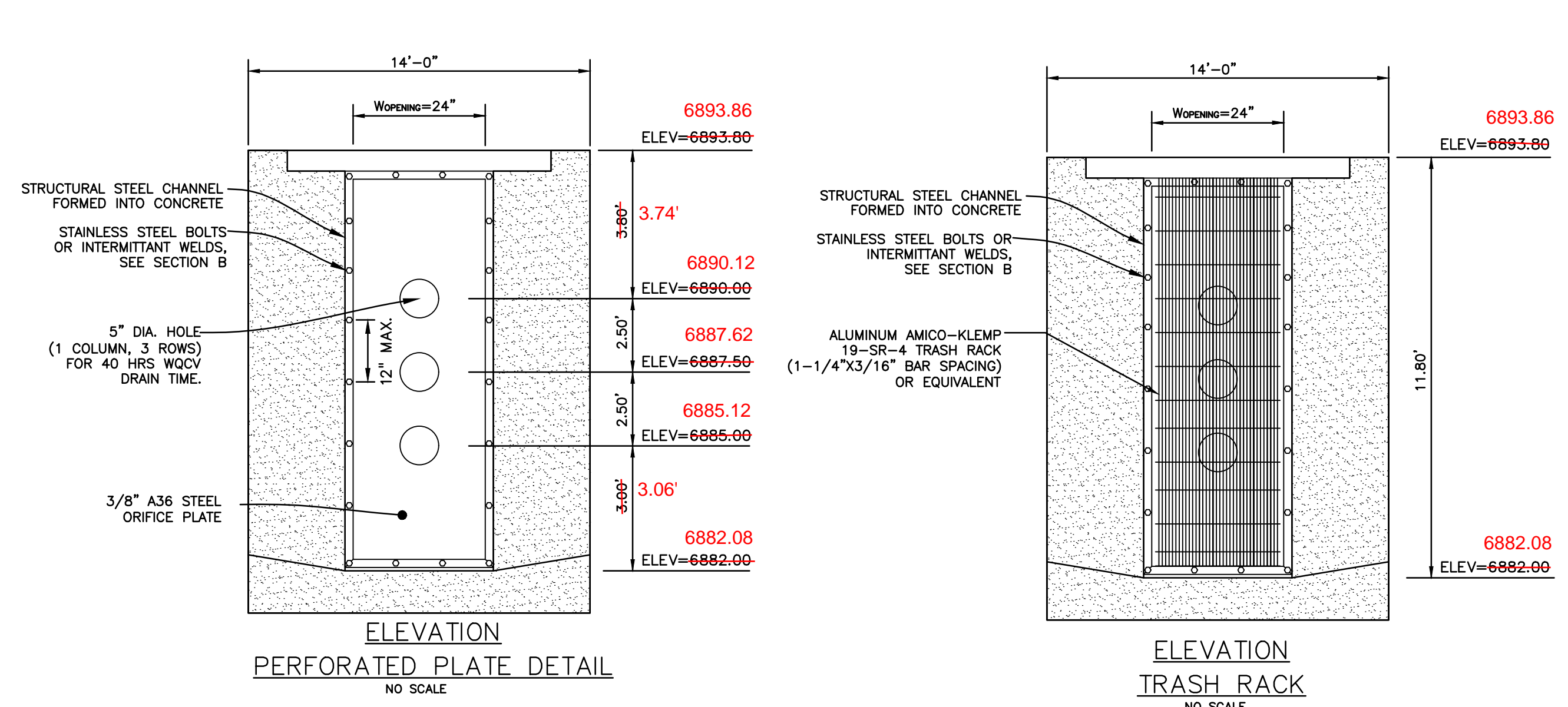
**POND #1 (SR4)  
 GROUTED DROP  
 DETAILS**

PROJECT NO. 20988-00CSCV  
 DRAWING NO.

**AS-BUILT**  
 10-17-2023

**C7.4**





INLET SIZE (IN)	CONCRETE CU. YDS.	STEEL LBS.	CIRCULAR PIPE RANGE (IN)
3.0	1.5	127	18
3.5	1.7	148	18-24
4.0	1.9	157	18-30
4.5	2.0	179	18-36
5.0	2.2	187	18-42
5.5	2.4	208	18-42
6.0	2.6	215	18-42
6.5	2.8	236	18-42
7.0	2.9	243	18-42
7.5	3.1	264	18-42
8.0	3.3	271	18-42
8.5	3.5	292	18-42
9.0	3.6	299	18-42
9.5	3.8	320	18-42
10.0	4.0	327	18-42

**PREPARED BY:**  
  
**DREXEL, BARRELL & CO.**  
 Engineers-Surveyors  
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 (719)260-0887  
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**CLIENT:**  
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 DALLAS, TEXAS 75225  
 (214) 416-9820

**OVERLOT GRADING, POND SR4 & UTILITY CONSTRUCTION DRAWINGS FOR**  
**FALCON MARKETPLACE**  
 FALCON, COLORADO

ISSUE	DATE
1ST SUBMITTAL	6-20-17
RESUBMITTAL	9-6-18

**DESIGNED BY:** TDM  
**DRAWN BY:** KGV  
**CHECKED BY:** TDM  
**FILE NAME:**

PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF DREXEL, BARRELL & CO.

**DRAWING SCALE:**  
 HORIZONTAL: N/A  
 VERTICAL: N/A

**POND #1 (SR4) DETAILS**

**PROJECT NO. 20988-00CSV**  
**DRAWING NO.**

**C7.5**

EL PASO COUNTY FILE NO: SP-17-001  
 CDR-16-007

**SHEET: 12 OF 27**

**Computer File Information**  
 Creation Date: 07/04/06 Initials: SJR  
 Last Modification Date: 07/04/06 Initials: LTA  
 Full Path: www.dot.state.co.us/DesignSupport/  
 Drawing File Name: 6040110101.dwg  
 CAD Ver: MicroStation V8 Scale: Not to Scale Units: English

**Sheet Revisions**

NO.	DESCRIPTION	DATE	INITIALS

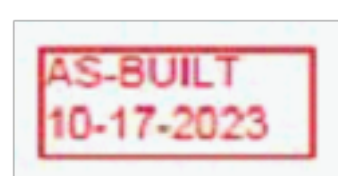
**Colorado Department of Transportation**  
 4201 East Arkansas Avenue  
 Denver, Colorado 80222  
 Phone: (303) 757-9683  
 Fax: (303) 757-9820

**Project Development Branch SRJ/LTA**

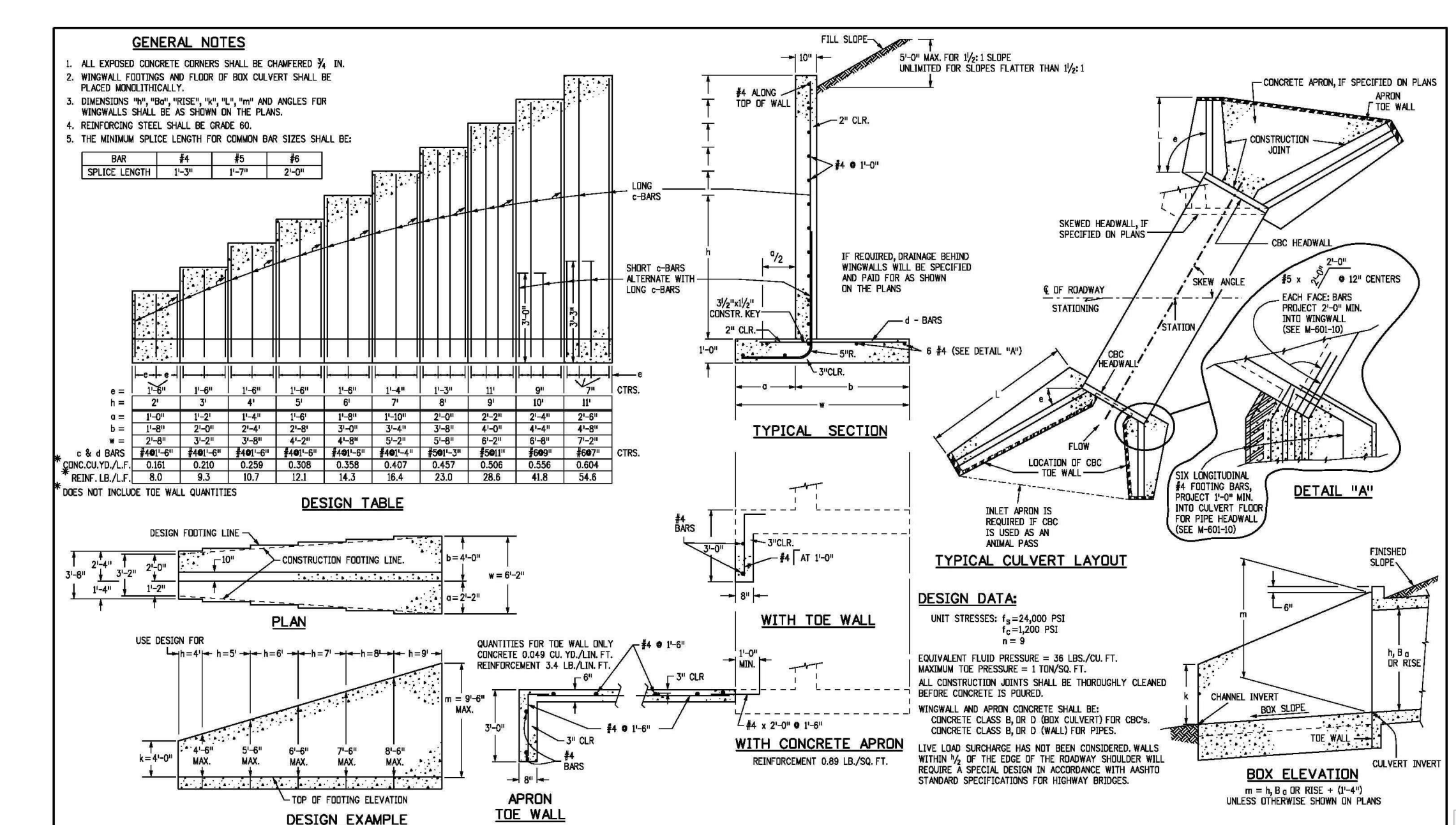
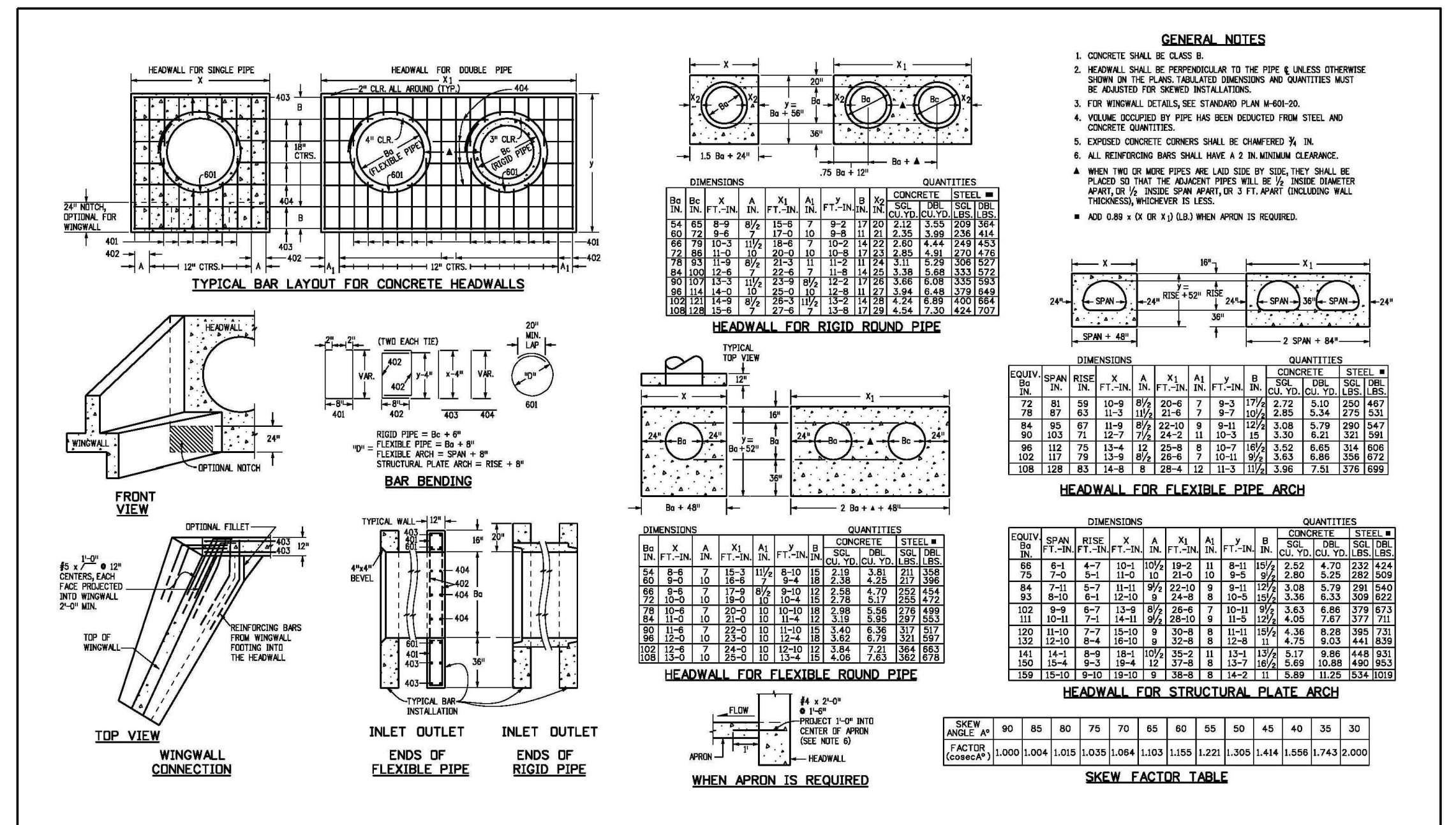
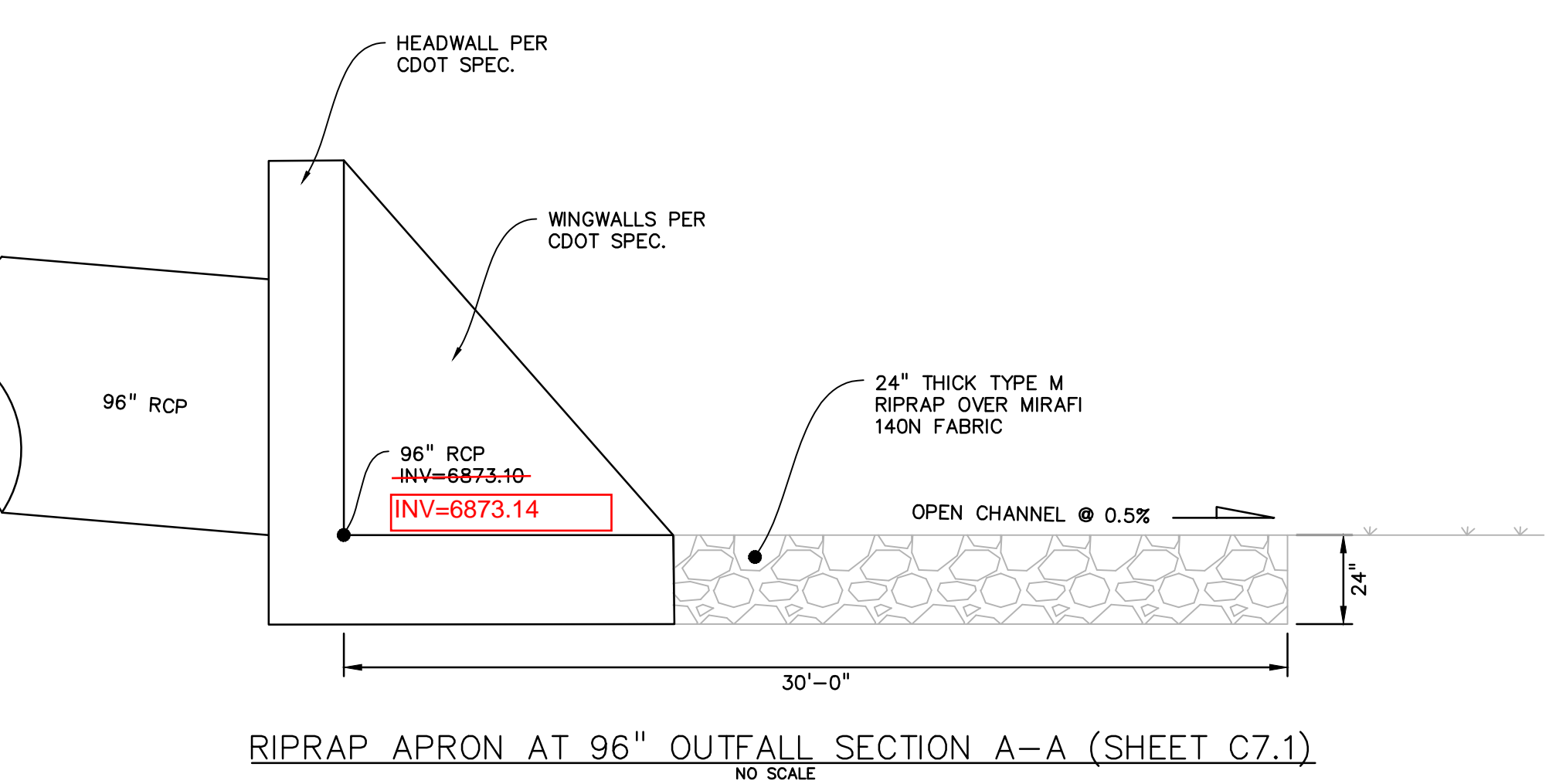
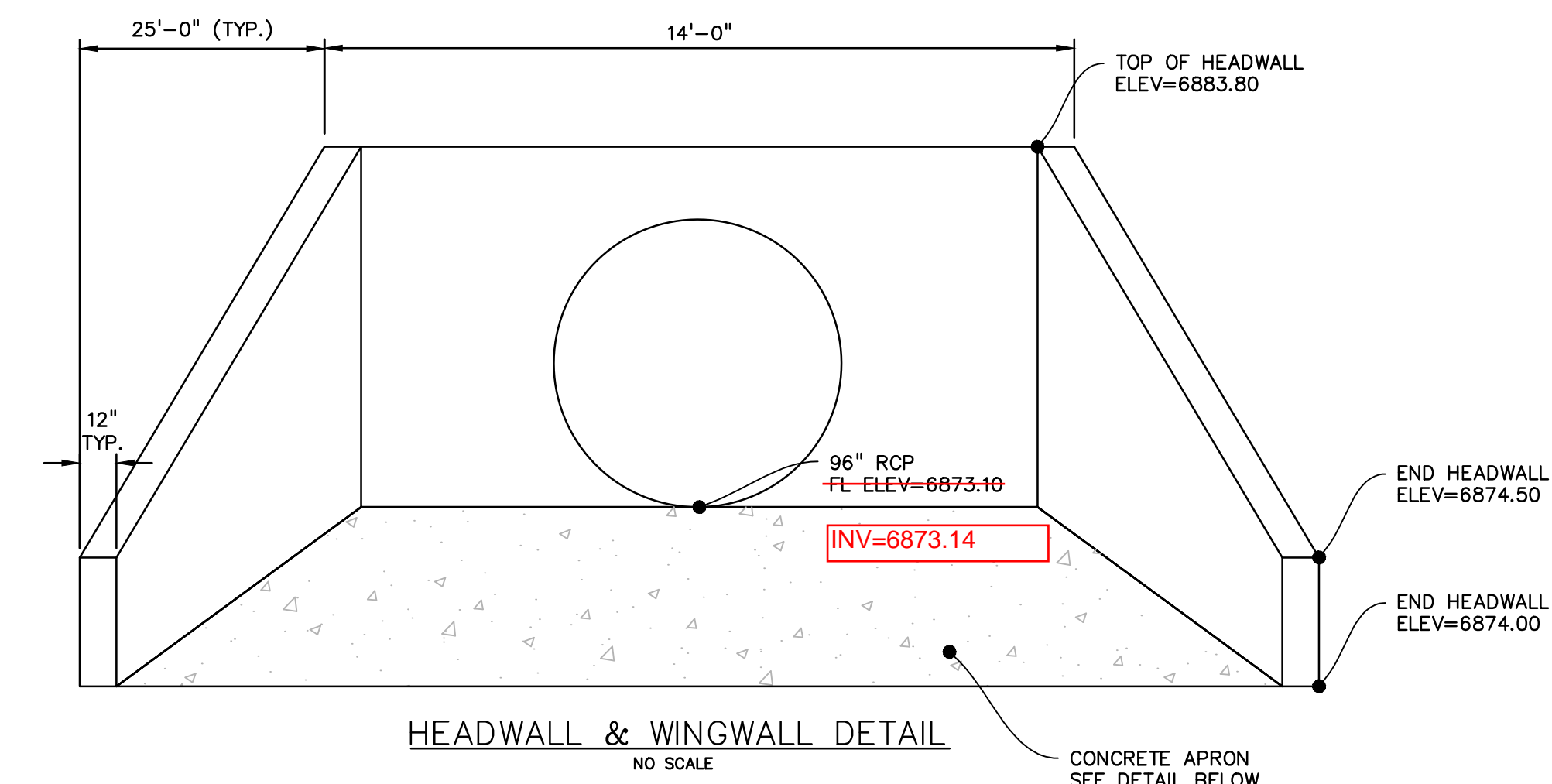
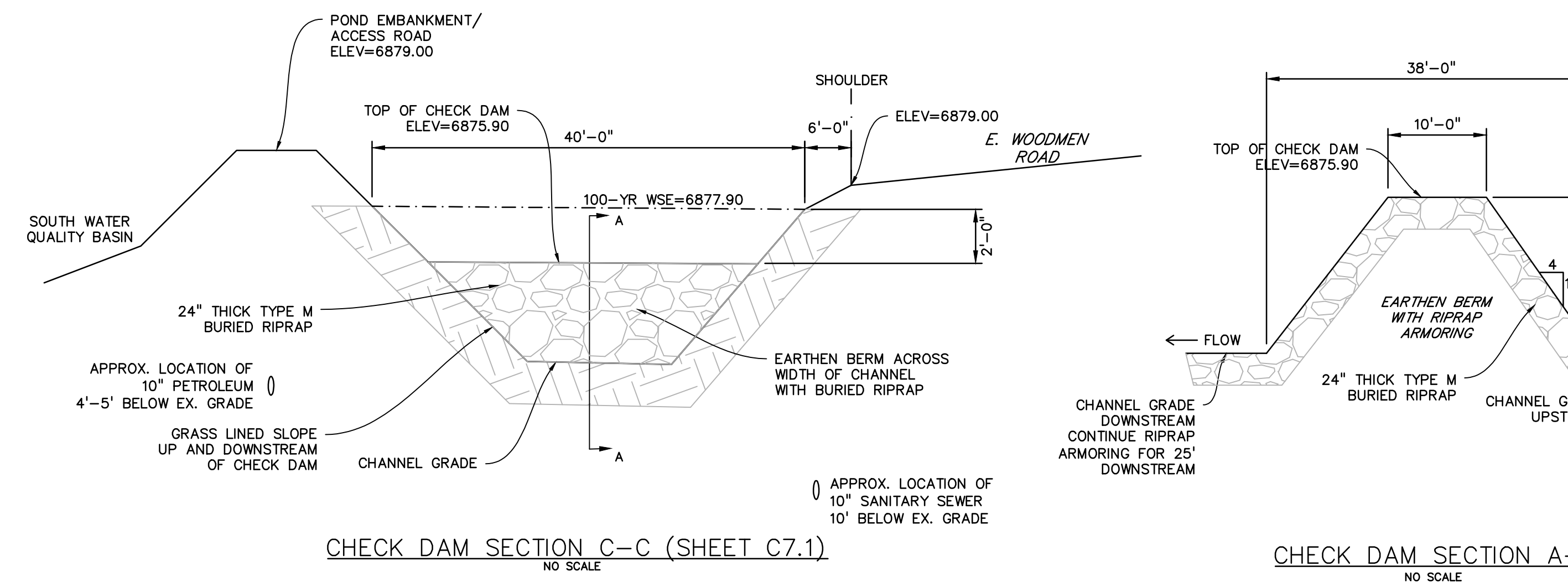
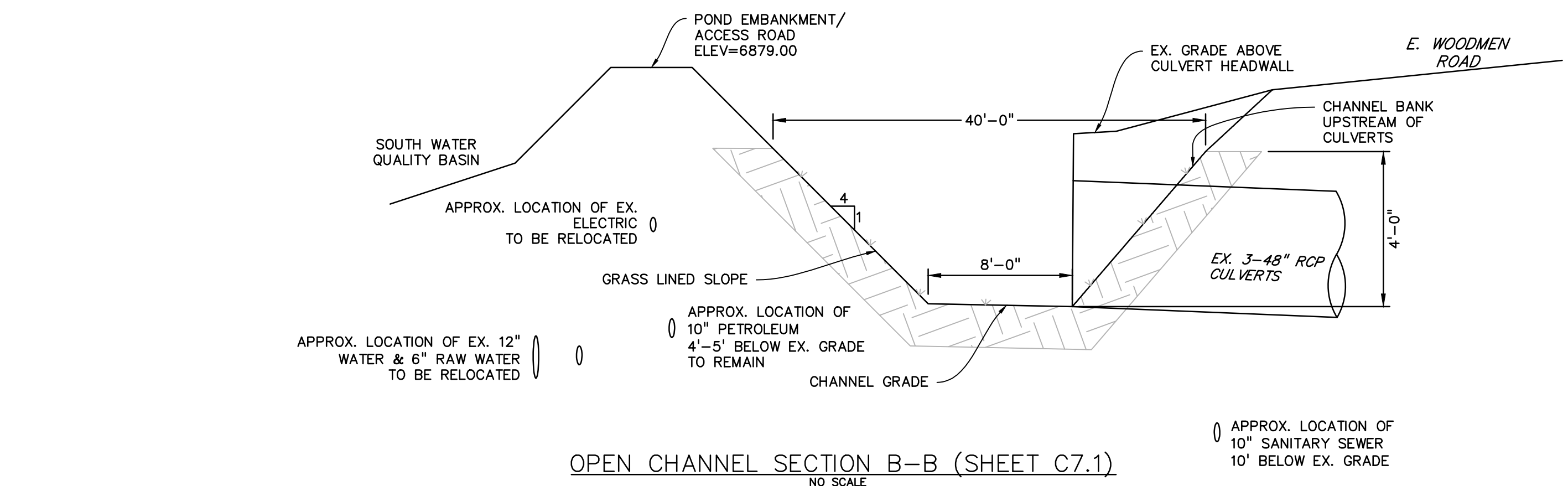
**INLET, TYPE D**

**STANDARD PLAN NO. M-604-11**

Issued By: Project Development Branch on July 04, 2006  
 Sheet No. 1 of 1



EXP 10/10/18



Computer File Information		Sheet Revisions		Colorado Department of Transportation		HEADWALL FOR PIPES		STANDARD PLAN NO.	
Creation Date: 07/04/12	Revision: DD	Date:	Comments:	4201 East Arkansas Avenue	Denver, Colorado 80222	M-601-10			
Last Modification Date: 07/04/12	Revision: LTA			Phone: (303) 757-8000	Fax: (303) 757-8000				
Full Path Name: colorado.ctd.com/business/designsupport	CDOT			Project Development Branch	DD/LTA				
Drawing File Name: 600000000.dgn	CDOT			Issued By: Project Development Branch July 4, 2012					
CD Ver: Microsoft Visio	Scale: Not to Scale	Units: English							

Computer File Information		Sheet Revisions		Colorado Department of Transportation		WINGWALLS FOR PIPE OR BOX CULVERTS		STANDARD PLAN NO.	
Creation Date: 07/04/12	Revision: DD	Date:	Comments:	4201 East Arkansas Avenue	Denver, Colorado 80222	M-601-20			
Last Modification Date: 07/04/12	Revision: LTA			Phone: (303) 757-8000	Fax: (303) 757-8000				
Full Path Name: colorado.ctd.com/business/designsupport	CDOT			Project Development Branch	DD/LTA				
Drawing File Name: 600000000.dgn	CDOT			Issued By: Project Development Branch July 4, 2012					
CD Ver: Microsoft Visio	Scale: Not to Scale	Units: English							

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 CONTACT: TIM D. McCONNELL, P.E.  
 (719)260-0887  
 BOULDER • COLORADO SPRINGS

CLIENT:  
**HUMMEL INVESTMENTS, LLC**  
 8117 PRESTON ROAD, SUITE 120  
 DALLAS, TEXAS 75225  
 (214) 416-9820

OVERLOT GRADING, POND SR4 & UTILITY CONSTRUCTION DRAWINGS FOR  
**FALCON MARKETPLACE**  
 FALCON, COLORADO

ISSUE	DATE
1ST SUBMITTAL	6-20-17
RESUBMITTAL	9-6-18

DESIGNED BY: TDM  
 DRAWN BY: KGV  
 CHECKED BY: TDM  
 FILE NAME:



PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF DREXEL, BARRELL & CO.

DRAWING SCALE:  
 HORIZONTAL: N/A  
 VERTICAL: N/A

**OPEN CHANNEL DETAILS**

PROJECT NO. 20988-00CSV  
 DRAWING NO.

**AS-BUILT**  
 10-17-2023

**C7.6**  
 SHEET: 13 OF 27

PREPARED BY:

**DREXEL, BARRELL & CO.**  
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 (719)260-0887  
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OVERLOT GRADING, POND SR4 & UTILITY  
 CONSTRUCTION DRAWINGS FOR  
**FALCON  
 MARKETPLACE**  
 FALCON, COLORADO

ISSUE	DATE
1ST SUBMITTAL	6-20-17
RESUBMITTAL	9-6-18
DESIGNED BY:	TDM
DRAWN BY:	KGW
CHECKED BY:	TDM
FILE NAME:	



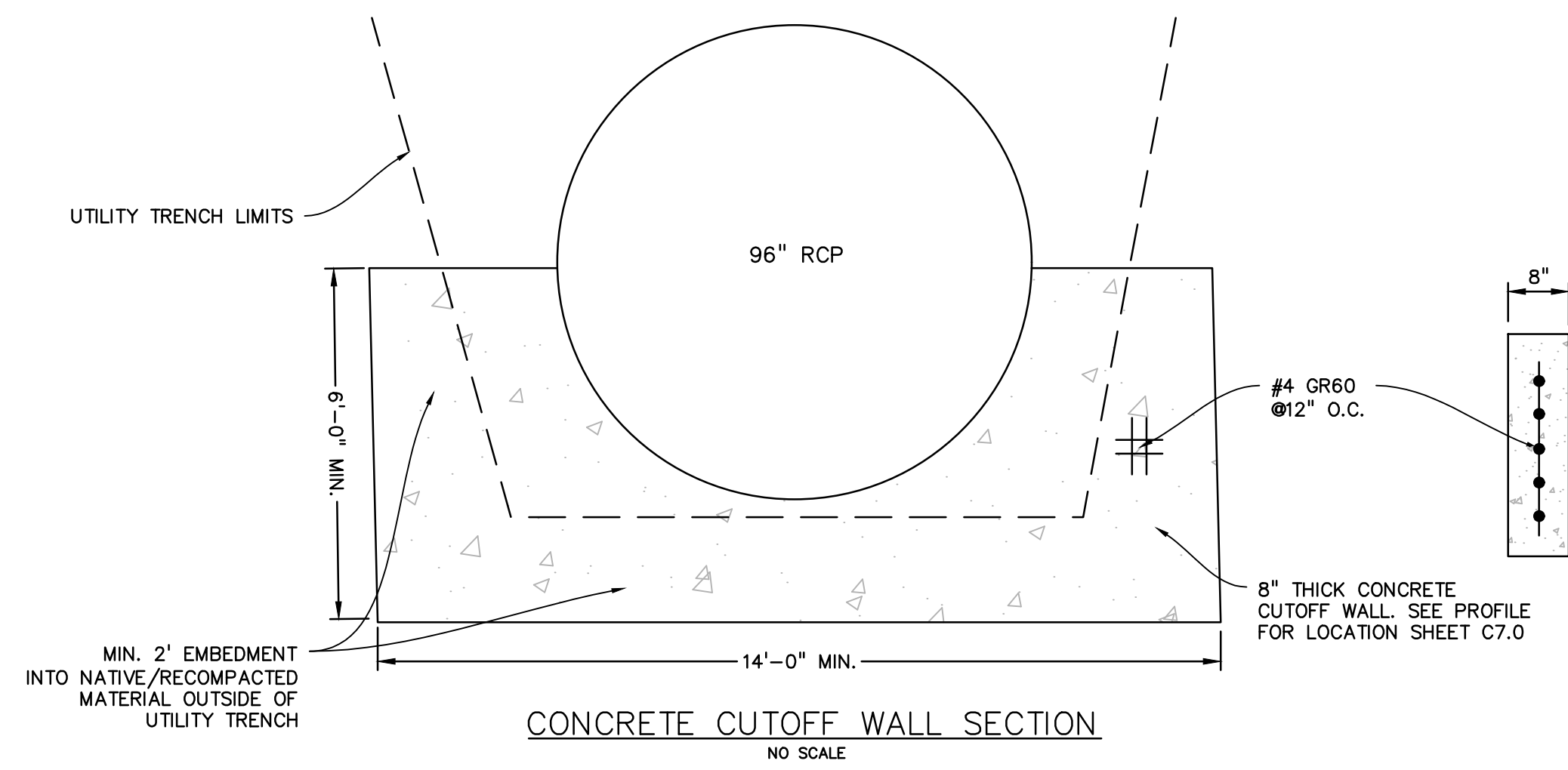
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 DRAWING SCALE:  
 HORIZONTAL: N/A  
 VERTICAL: N/A

**STORM SEWER  
 DETAILS**

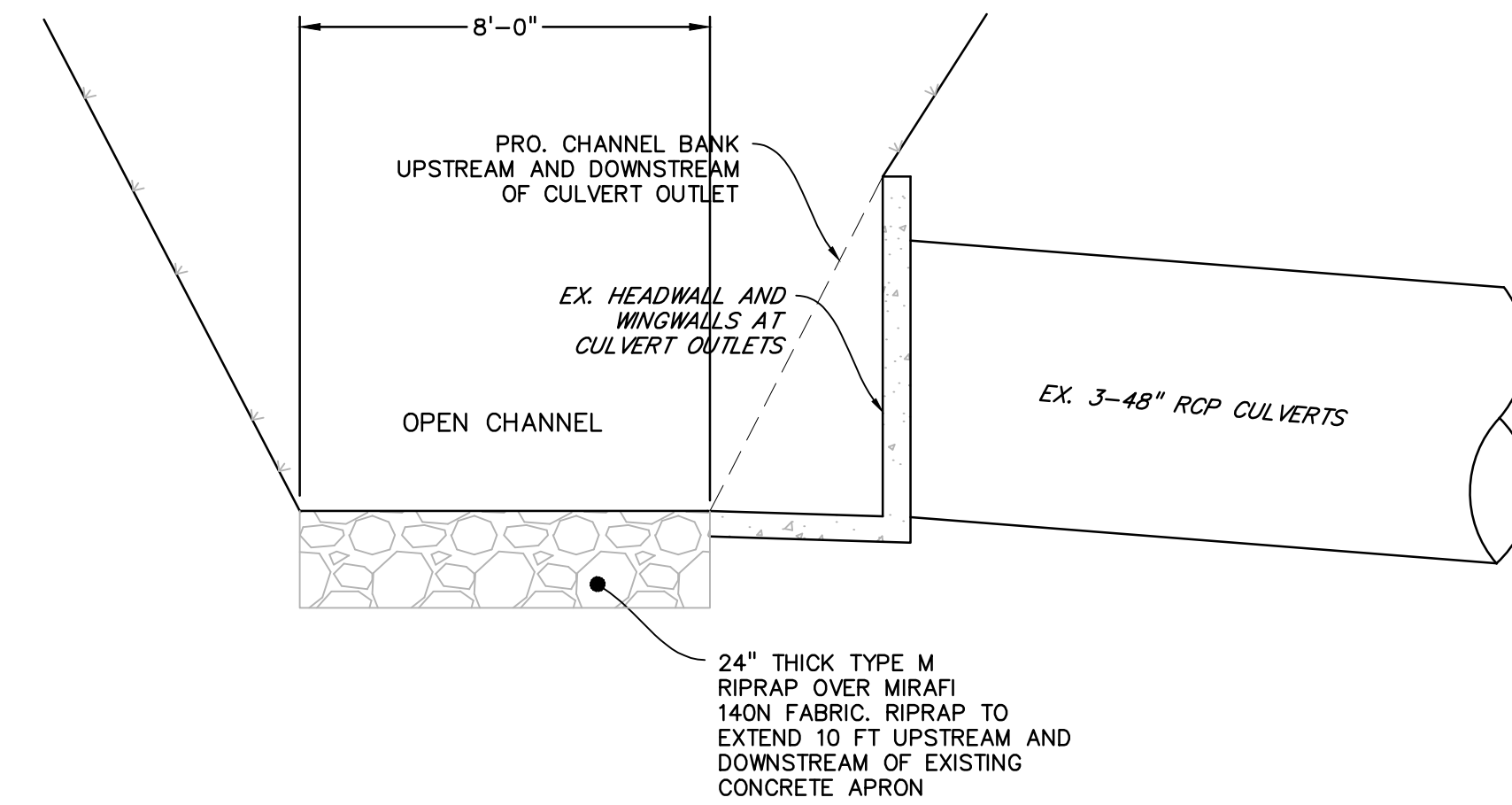
PROJECT NO. 20988-00CSV  
 DRAWING NO.

**C7.7**

SHEET: 14 OF 27



**CONCRETE CUTOFF WALL SECTION**  
 NO SCALE



**RIPRAP OUTLET PROTECTION AT EXISTING CULVERTS**  
 SECTION B-B & E-E (SHEET C7.1)  
 NO SCALE

**PLAN VIEW**

**R.C.P. CONNECTION DETAIL**

**NOTE**  
 TYPE III MANHOLES SHALL BE USED WHEN APPROPRIATE AND TYPICALLY WHEN THE FOLLOWING CONDITIONS ARE MET:

- PIPE IS 48" OR LARGER INSIDE DIAMETER.
- NOT CHANGE IN PIPE SIZE
- NO CHANGE IN PIPE MATERIAL
- NO CHANGE IN HORIZONTAL ALIGNMENT
- SLOPE IS FLAT AND CONTINUOUS

2. TYPE III MANHOLES SHALL BE FABRICATED BY THE MANUFACTURER/SUPPLIER AND DELIVERED TO THE SITE AS A SINGLE UNIT. FIELD FABRICATION SHALL NOT BE PERMITTED.

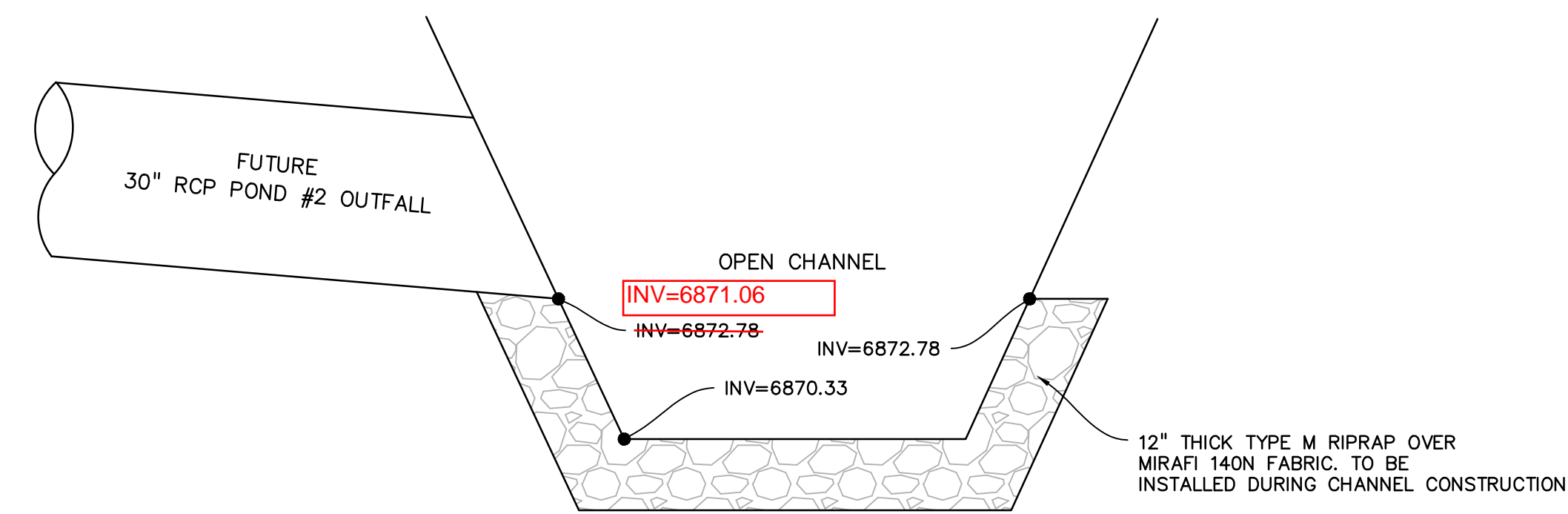
3. EITHER LADDER OR STEPS SHALL BE INSTALLED. LOWEST STEP SHALL BE A MAXIMUM OF 30" ABOVE THE INVERT OF THE PIPE.

**SECTION VIEW**

**SPECIAL LID FOR USE WITH C.S.P. RISER**

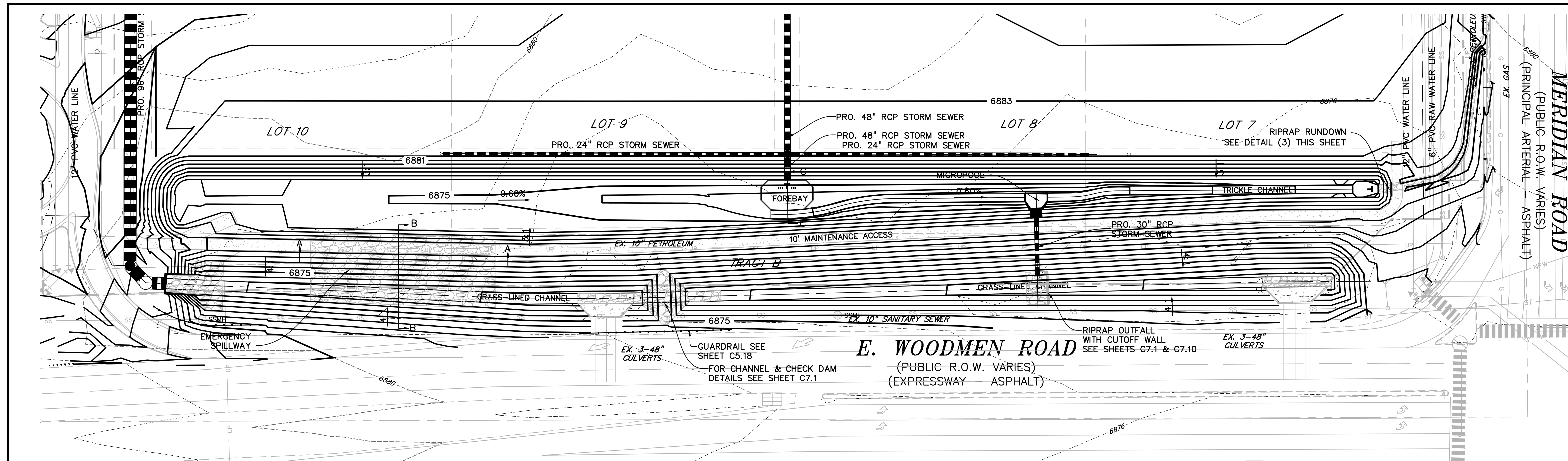
SCALE: NOT TO SCALE

DATE APPROVED: 8/11/11	Storm Sewer Manhole Detail Type III Standard Drawing	
André P. Brackin DEPARTMENT OF TRANSPORTATION	REVISION DATE: 11/10/04	FILE NAME: SD_3-3



**POND #2 OUTFALL TO OPEN CHANNEL**  
 SECTION D-D (SHEET C7.1)  
 NO SCALE

**AS-BUILT**  
 10-17-2023



**LEGEND**

PROPERTY LINE	---
LOT LINE	.....
EASEMENT	- - - - -
CURB & GUTTER	=====
SIDEWALK	.....
PRO. WATER LINE	.....
PRO. FIRE HYDRANT	.....
PRO. RAW WATER	.....
PRO. SANITARY SEWER	.....
PRO. STORM SEWER	.....
EX. OVERHEAD ELECTRIC	.....
EX. SANITARY SEWER	.....
EX. PETROLEUM	.....
EX. GAS	.....
EX. RAW WATER	.....
EX. WATER	.....
EX. STORM SEWER	.....

PREPARED BY:  
  
**DREXEL, BARRELL & CO.**  
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CLIENT:  
**LG HI FALCON, LLC**  
 3953 MAPLE AVE., #290  
 DALLAS, TEXAS 75219  
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CONSTRUCTION DRAWINGS FOR  
**FALCON MARKETPLACE**  
 FALCON, COLORADO

ISSUE	DATE
90% SUBMITTAL	5-6-19
REVISED	9-23-20
REVISED	3-6-20

DESIGNED BY: TDM  
 DRAWN BY: KGV  
 CHECKED BY: TDM  
 FILE NAME:



PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF DREXEL, BARRELL & CO.

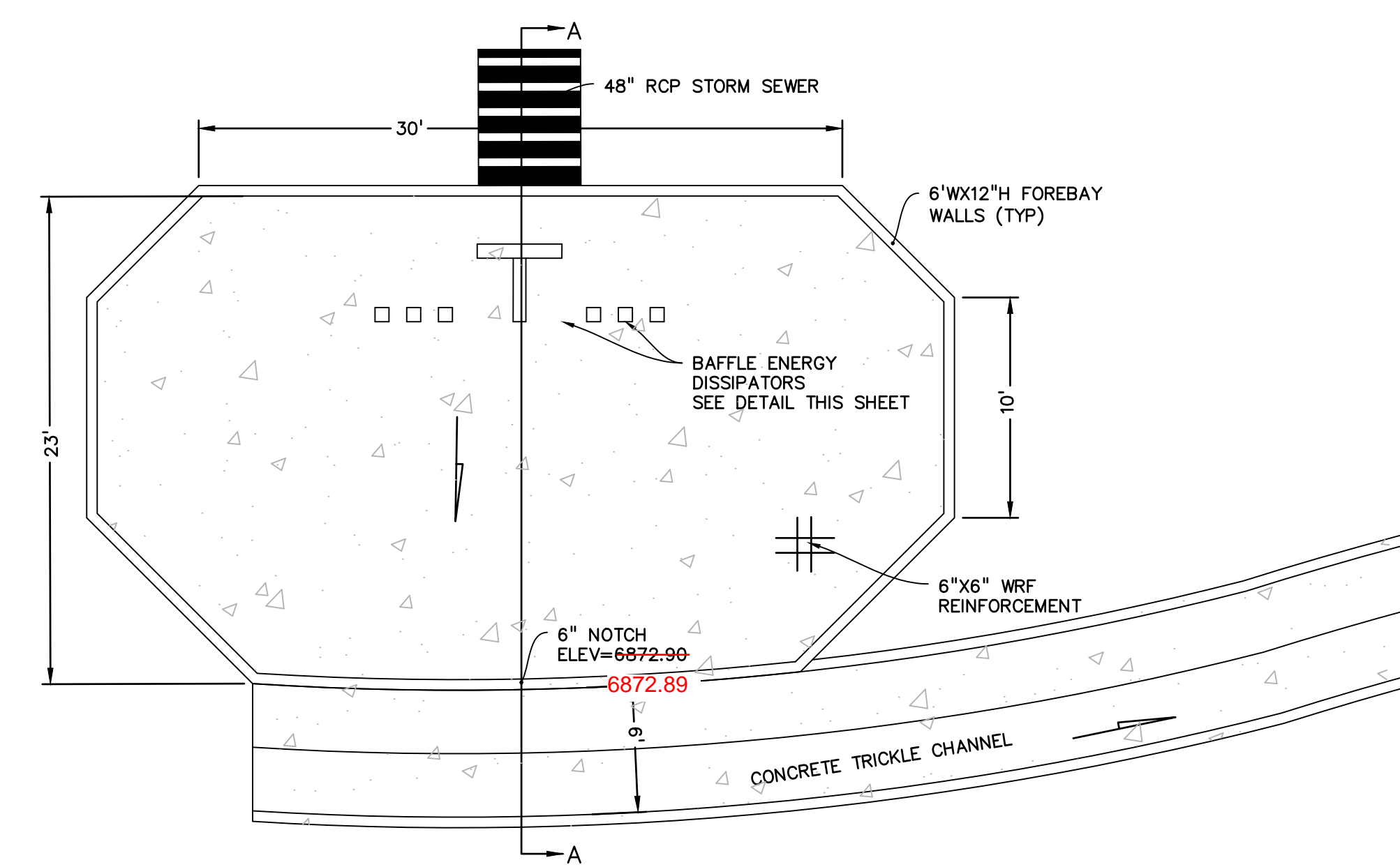
DRAWING SCALE:  
 HORIZONTAL: 1"=50'  
 VERTICAL: N/A

**POND #2**

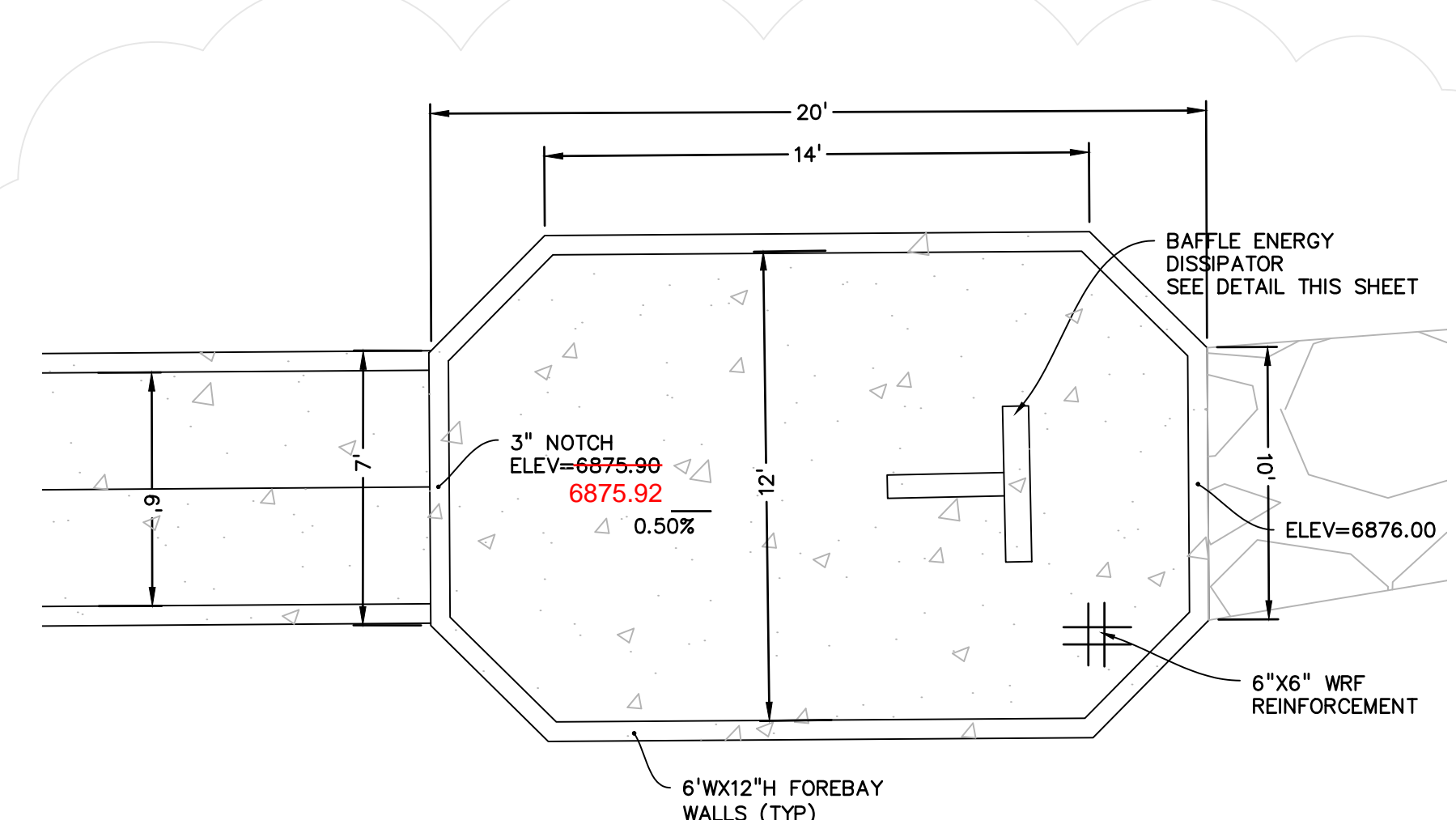
PROJECT NO. 20988-00CSCV  
 DRAWING NO.

**C7.15**

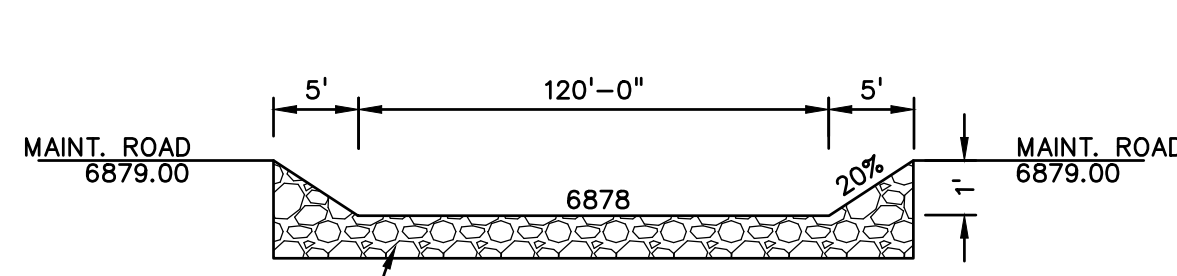
SHEET: 44 OF 48



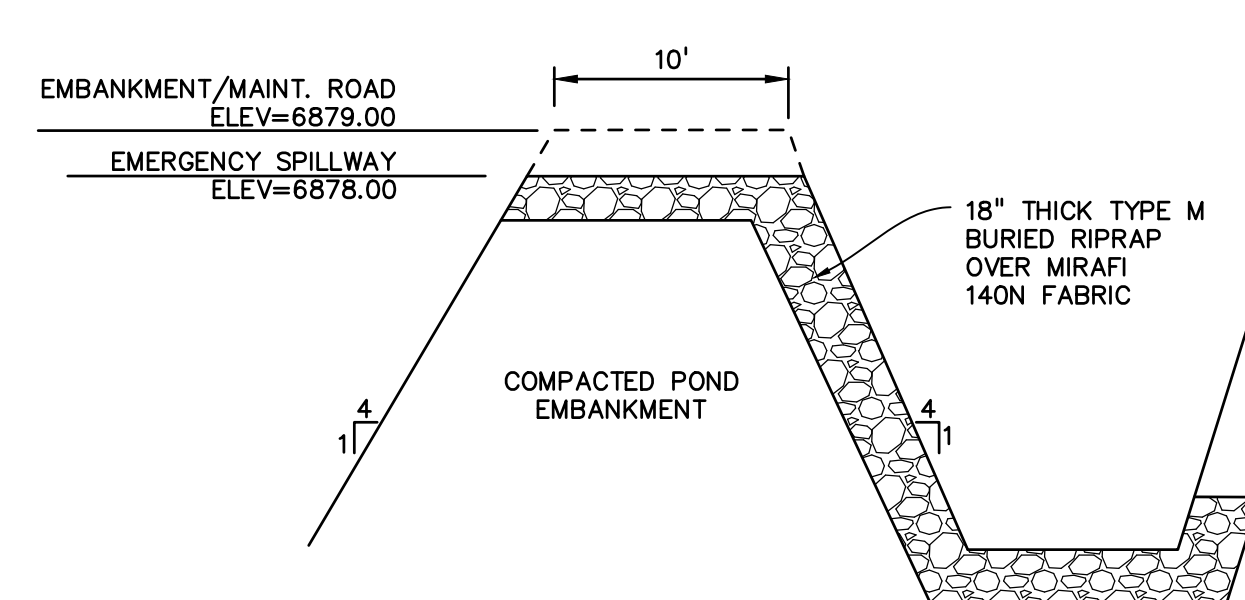
CENTRAL FOREBAY/TRICKLE CHANNEL DETAIL  
 NTS



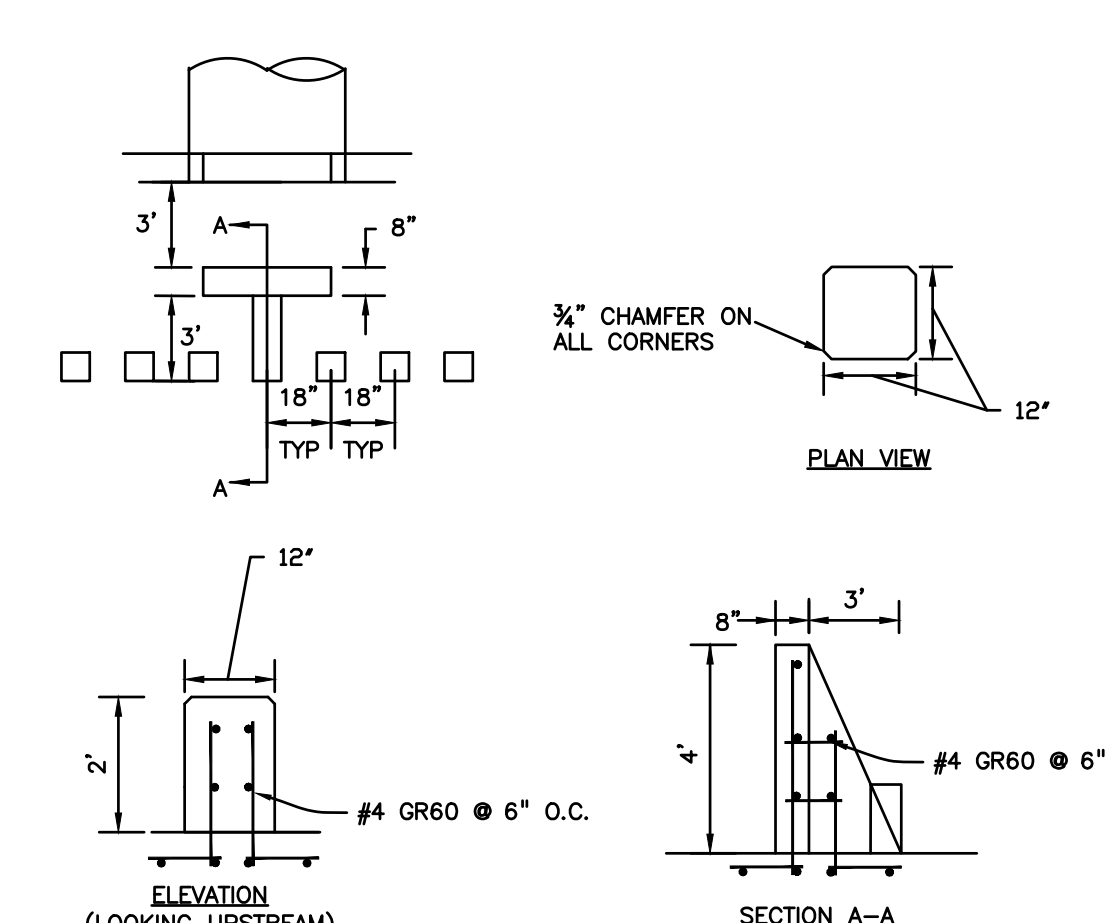
EAST FOREBAY/TRICKLE CHANNEL DETAIL  
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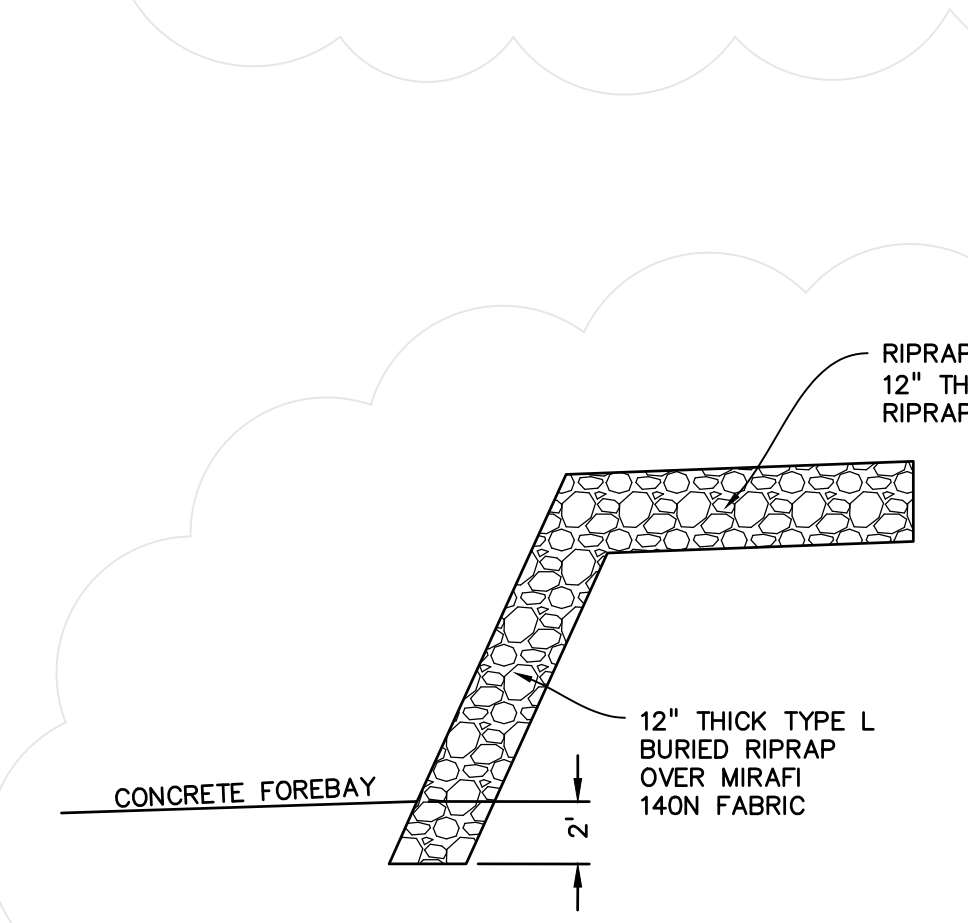
SPILLWAY SECTION A-A  
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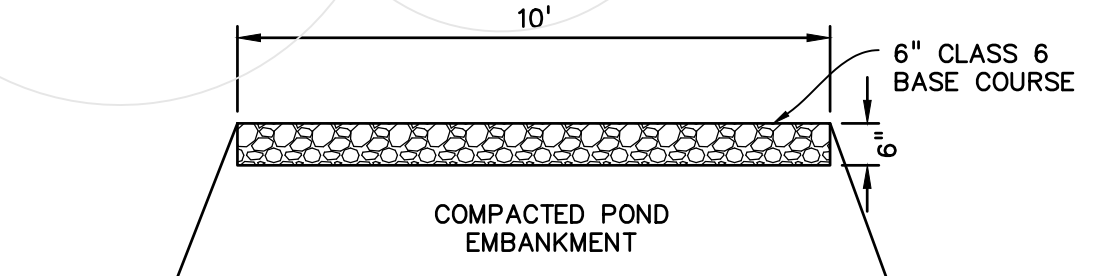
SPILLWAY SECTION B-B  
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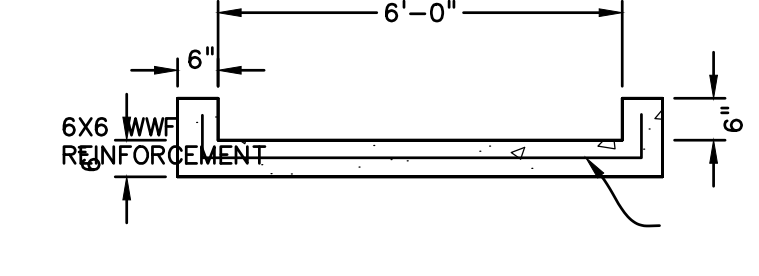
FOREBAY BAFFLE ENERGY DISSIPATORS  
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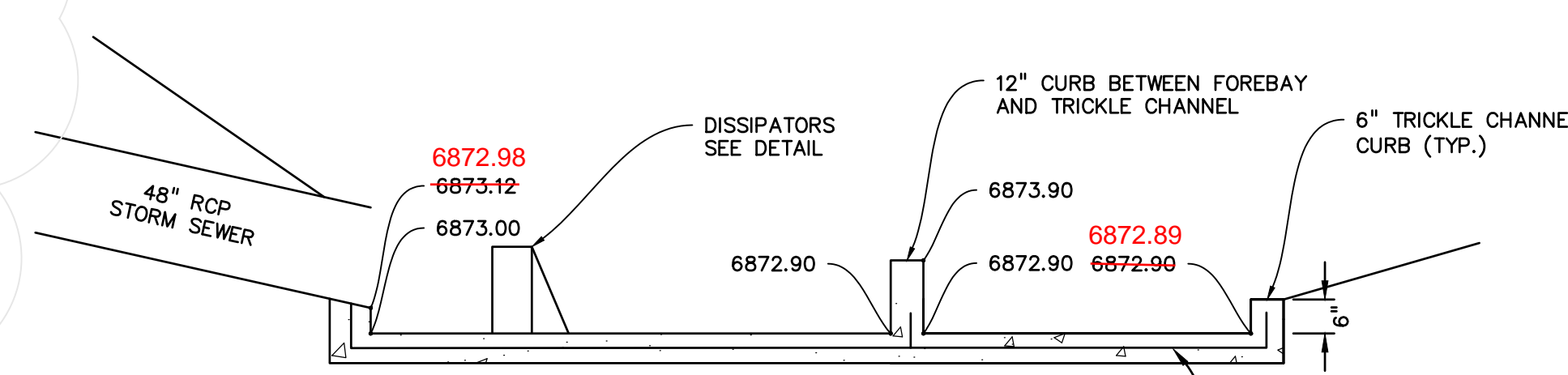
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MAINTENANCE ROAD SECTION  
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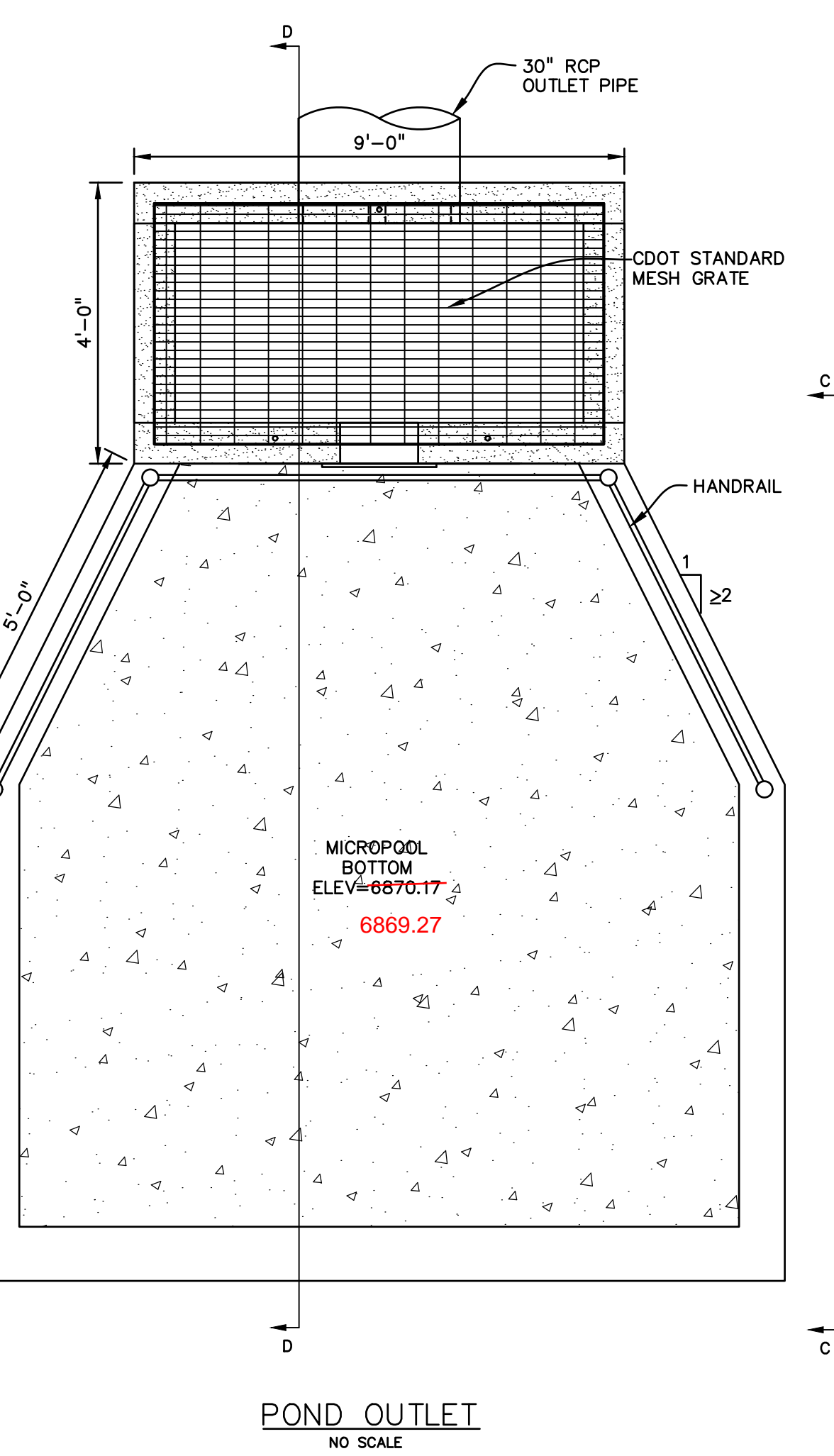
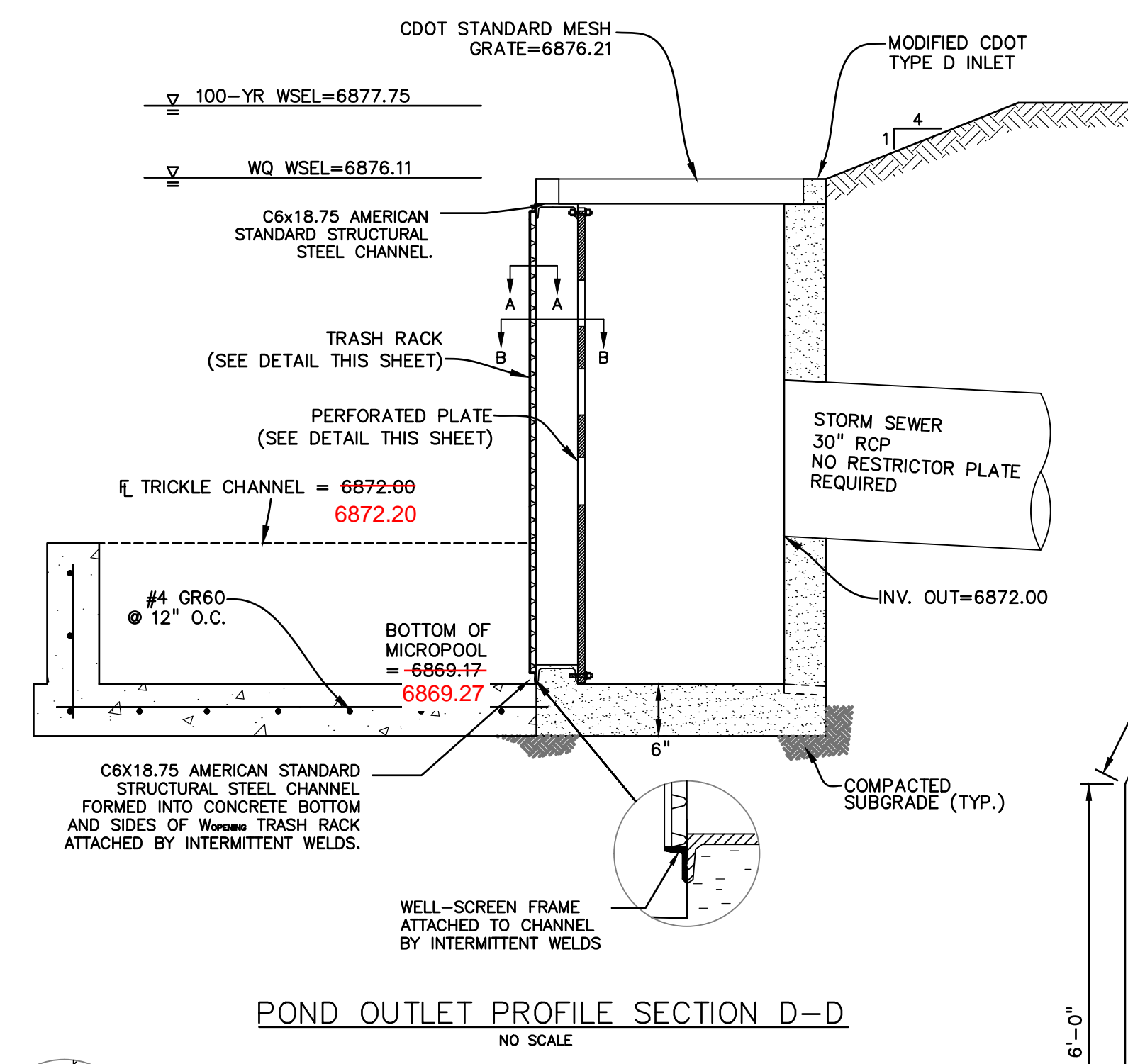
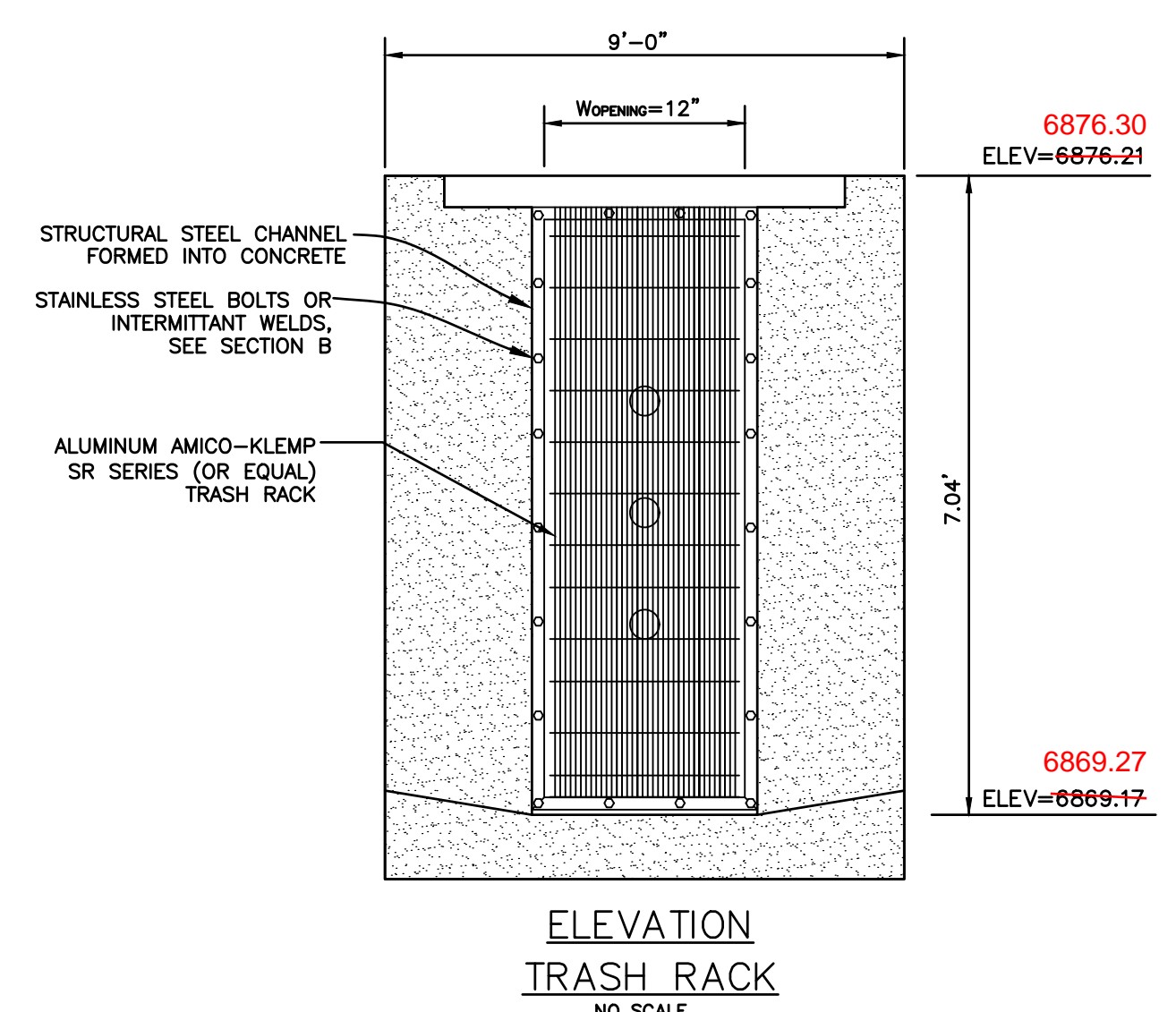
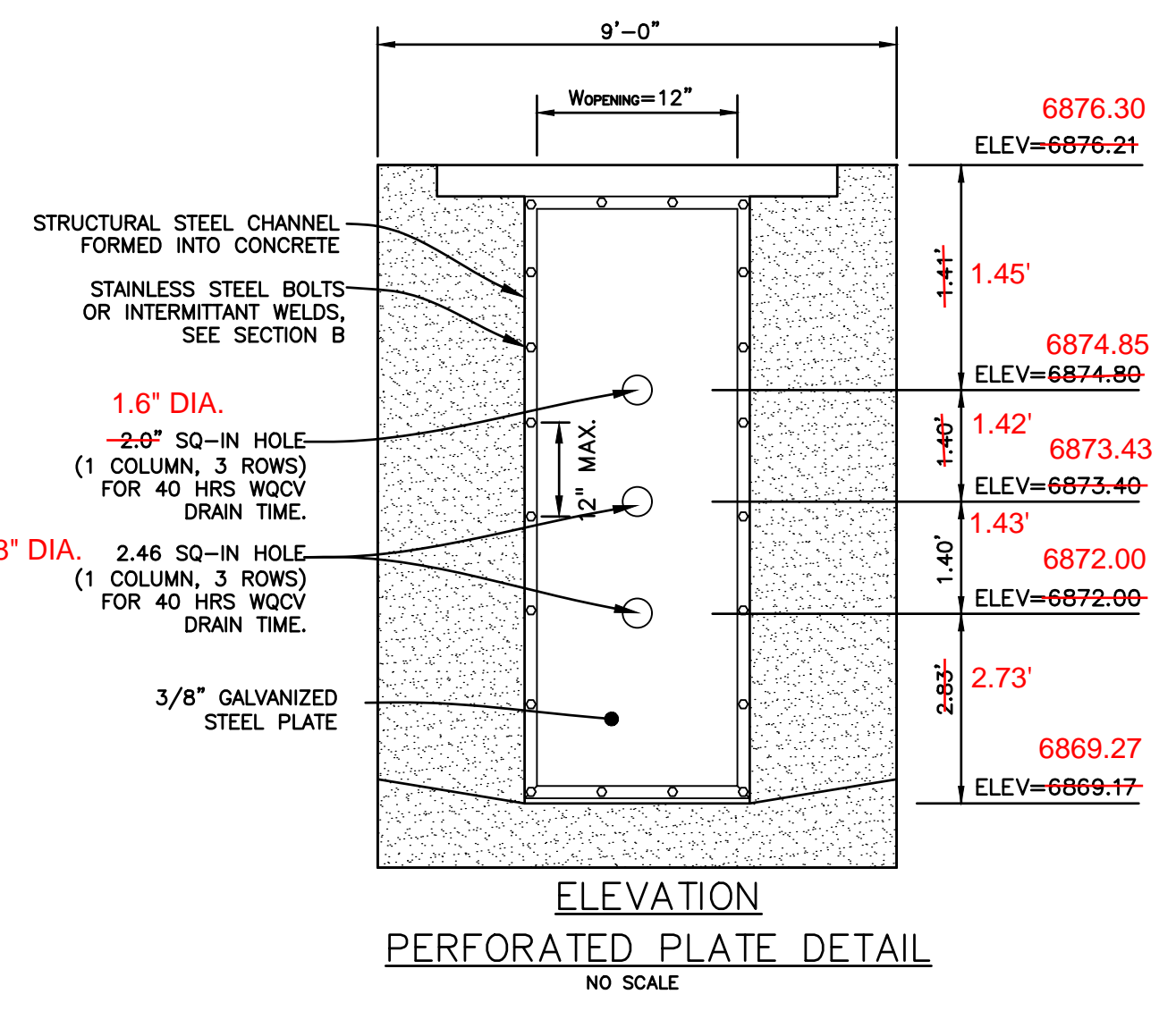


TRICKLE CHANNEL SECTION  
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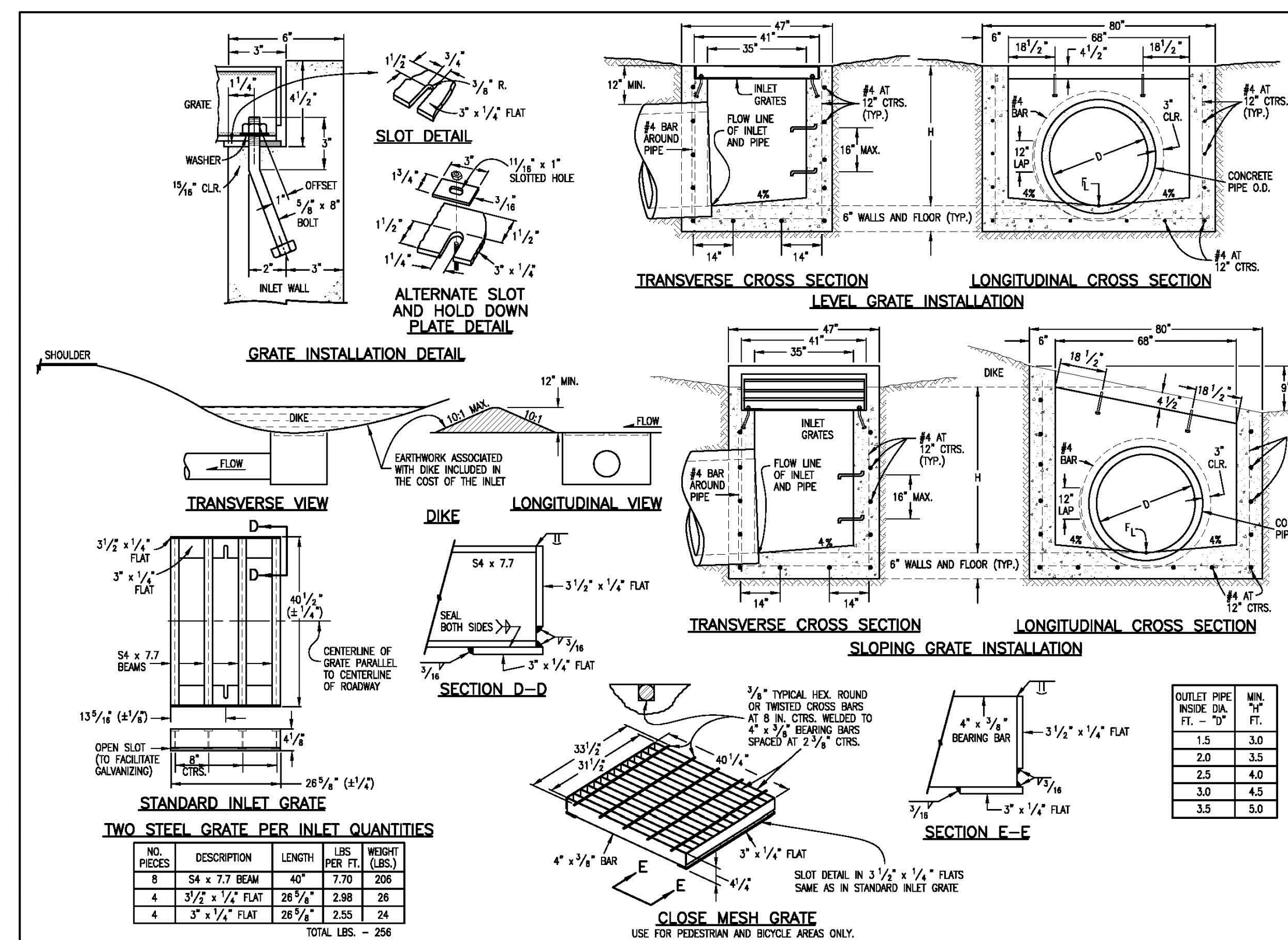
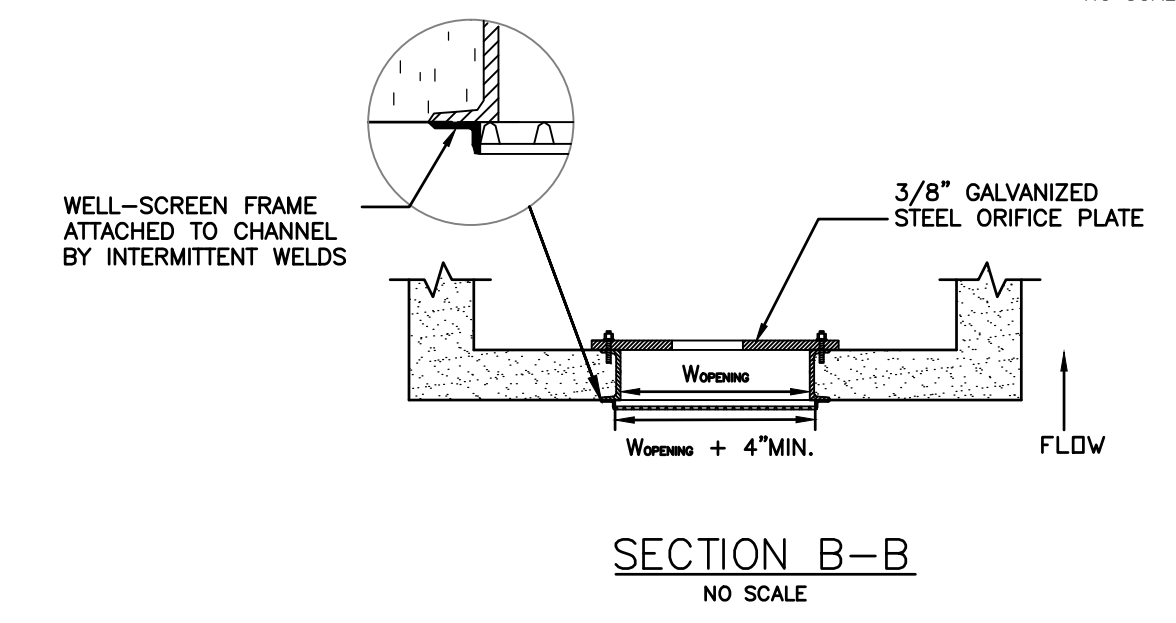
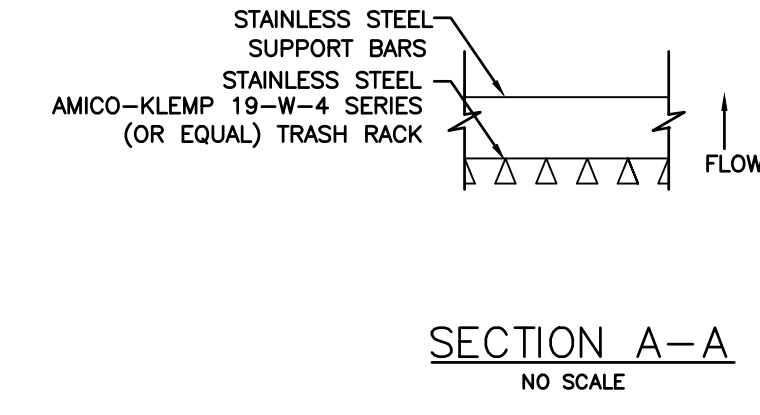


FOREBAY/TRICKLE CHANNEL SECTION C-C  
 NO SCALE

EPC 10/20/2020  
 EL PASO COUNTY FILE # SF-19-001



- PERFORATED PLATE NOTES:**
- PROVIDE GASKET MATERIAL OR GROUT BETWEEN THE ORIFICE PLATE AND CONCRETE.
  - BOLT PLATE TO CONCRETE @ 12" MAX. ON CENTER. ORIFICE PLATE IS TO BE REMOVABLE.
  - ALL METAL SURFACES ARE TO BE COATED WITH ZRC COLD GALVANIZING COMPOUND.
- GENERAL NOTES:**
- ALL EXTERIOR STEEL SHALL BE EITHER STAINLESS OR HOT DIPPED GALVANIZED.

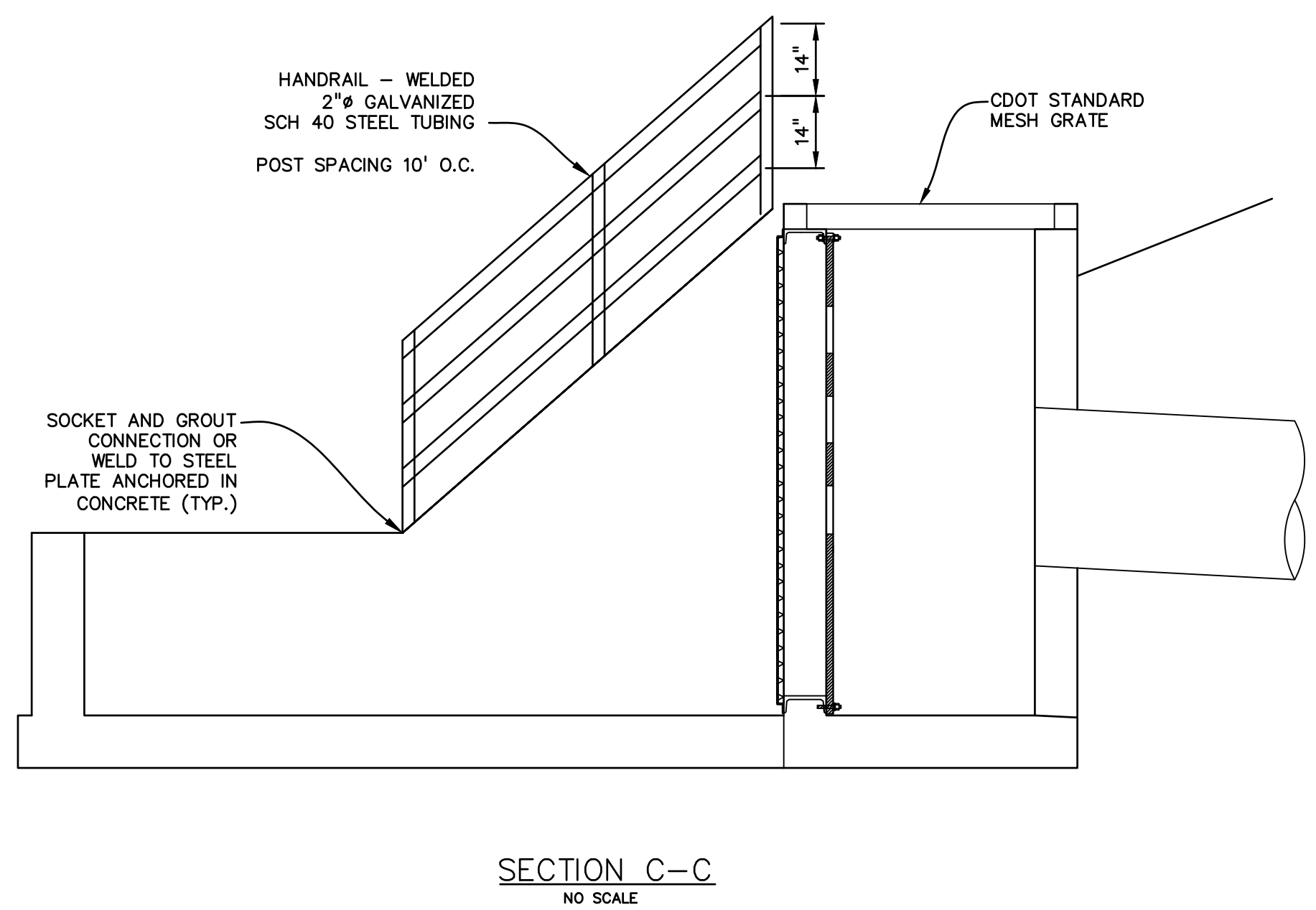


**GENERAL NOTES**

- CONCRETE SHALL BE CLASS B. INLET MAY BE CAST-IN-PLACE OR PRECAST.
- SEE PLANS FOR SIZE AND LOCATION OF PIPE.
- STRUCTURAL STEEL FOR GRATES AND GRATE INSTALLATION WORKING SHALL BE GALVANIZED AND SHALL BE IN ACCORDANCE WITH SUBSECTION 712.06.
- STANDARD INLET GRATES SHALL BE USED ON ALL TYPE B INLETS UNLESS CLOSE MESH GRATES ARE SPECIFIED ON THE PLANS.
- STEPS SHALL BE PROVIDED WHEN INLET DIMENSION "H" IS EQUAL TO OR GREATER THAN 3 FT.-6 IN. AND SHALL CONFORM WITH ASHRAE 119.
- REINFORCING BARS SHALL BE EPOXY COATED AND DEFORMED #4, AND SHALL HAVE A 2 IN. MINIMUM CLEARANCE CUT OR BEND BARS AROUND PIPE AS REQUIRED.

**QUANTITIES FOR ONE INLET**

INLET SIZE (IN.)	CONCRETE CU. YDS.	STEEL LBS.	CIRCULAR PIPE RANGE INSIDE DIA. (IN.)
3.0	1.5	127	18
3.5	1.7	140	18-24
4.0	1.9	157	18-30
4.5	2.0	179	18-36
5.0	2.2	187	18-42
5.5	2.4	206	18-42
6.0	2.6	215	18-42
6.5	2.8	236	18-42
7.0	2.9	243	18-42
7.5	3.1	264	18-42
8.0	3.3	271	18-42
8.5	3.5	292	18-42
9.0	3.6	299	18-42
9.5	3.8	320	18-42
10.0	4.0	327	18-42



**Computer File Information**

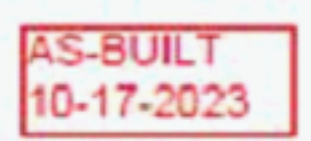
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 Last Modification Date: 07/04/06 Initials: LTA  
 Full Path: www.dot.state.co.us/DesignSupport/  
 Drawing File Name: 60401101.dwg  
 CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English

**Sheet Revisions**

NO.	DESCRIPTION	DATE	BY
1	ISSUED FOR PERMITS	07/04/06	SJR
2	REVISED FOR CONSTRUCTION	08/20/08	LTA

**Colorado Department of Transportation**  
 4201 East Arkansas Avenue  
 Denver, Colorado 80222  
 Phone: (303) 757-9683  
 Fax: (303) 757-9820

**INLET, TYPE D**  
**STANDARD PLAN NO. M-604-11**  
 Sheet No. 1 of 1



**PREPARED BY:**  
  
 DREXEL, BARRELL & CO.  
 Engineers-Surveyors  
 3 SOUTH 7TH STREET  
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 CONTACT: TIM D. MCCONNELL, P.E.  
 (719)260-0887  
 BOULDER • COLORADO SPRINGS

**CLIENT:**  
 LG HI FALCON, LLC  
 3953 MAPLE AVE., #290  
 DALLAS, TEXAS 75219  
 (214) 416-9820

**CONSTRUCTION DRAWINGS FOR**  
**FALCON MARKETPLACE**  
 FALCON, COLORADO

ISSUE	DATE
90% SUBMITTAL	5-6-19
REVISED	9-23-20

**DESIGNED BY:** TDM  
**DRAWN BY:** KGV  
**CHECKED BY:** TDM  
**FILE NAME:**

**DRAWING SCALE:**  
 HORIZONTAL: 1"=50'  
 VERTICAL: N/A

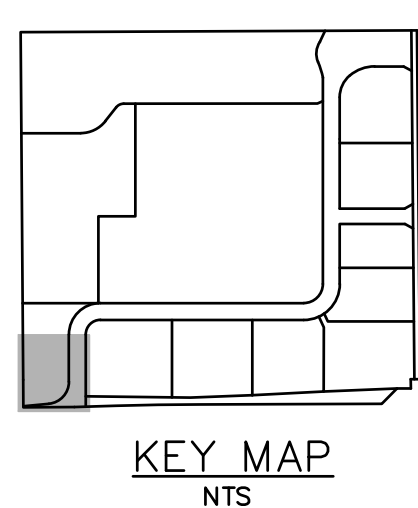
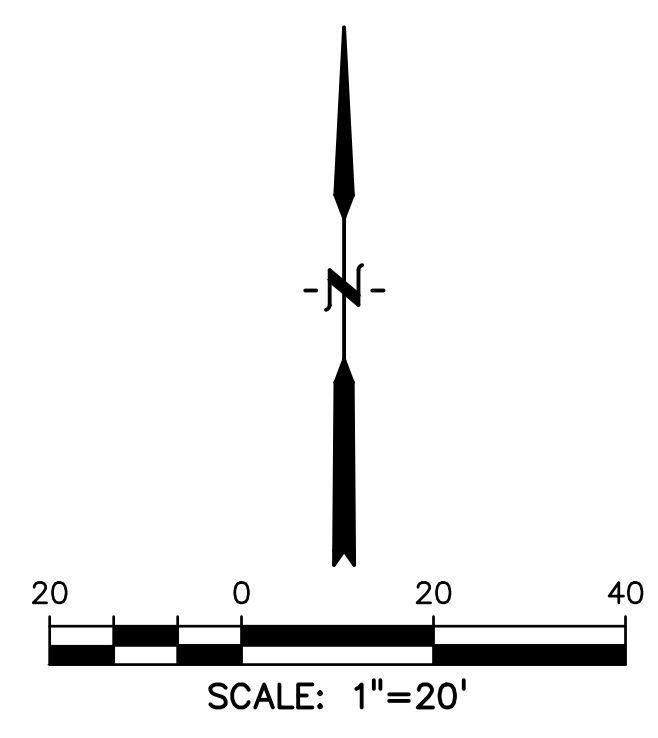
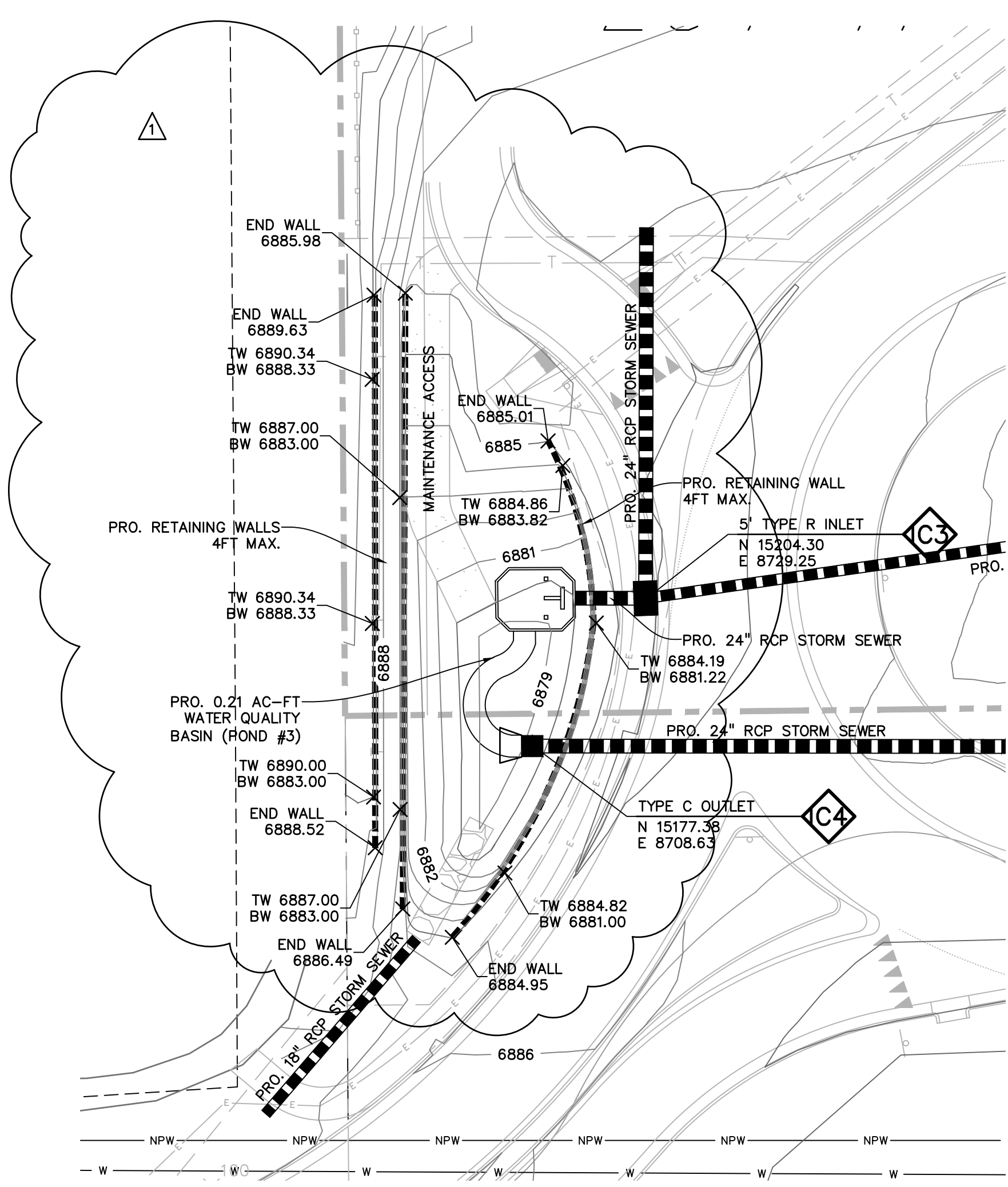
**POND #2 DETAILS**

**PROJECT NO. 20988-00CSCV**  
**DRAWING NO.**

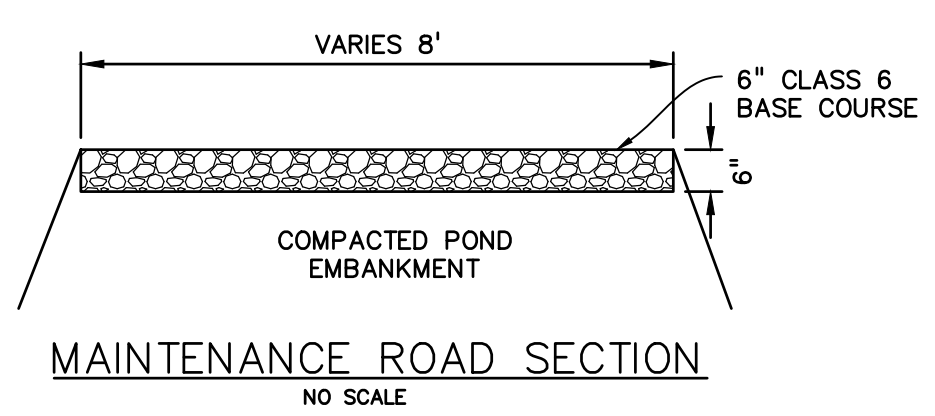
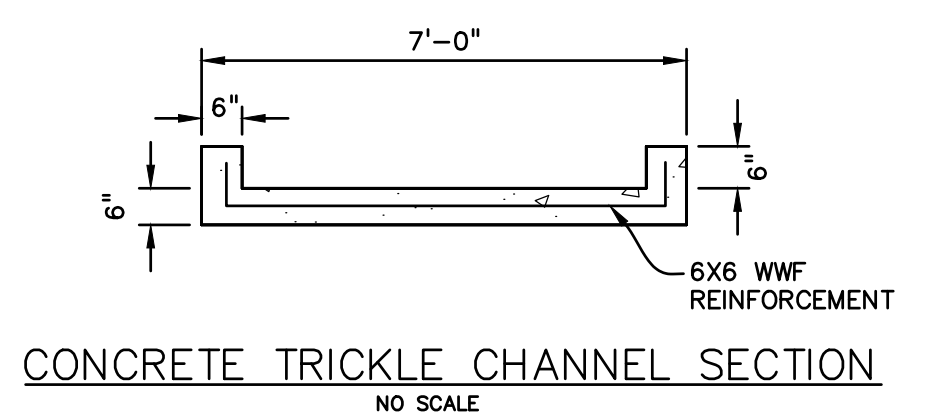
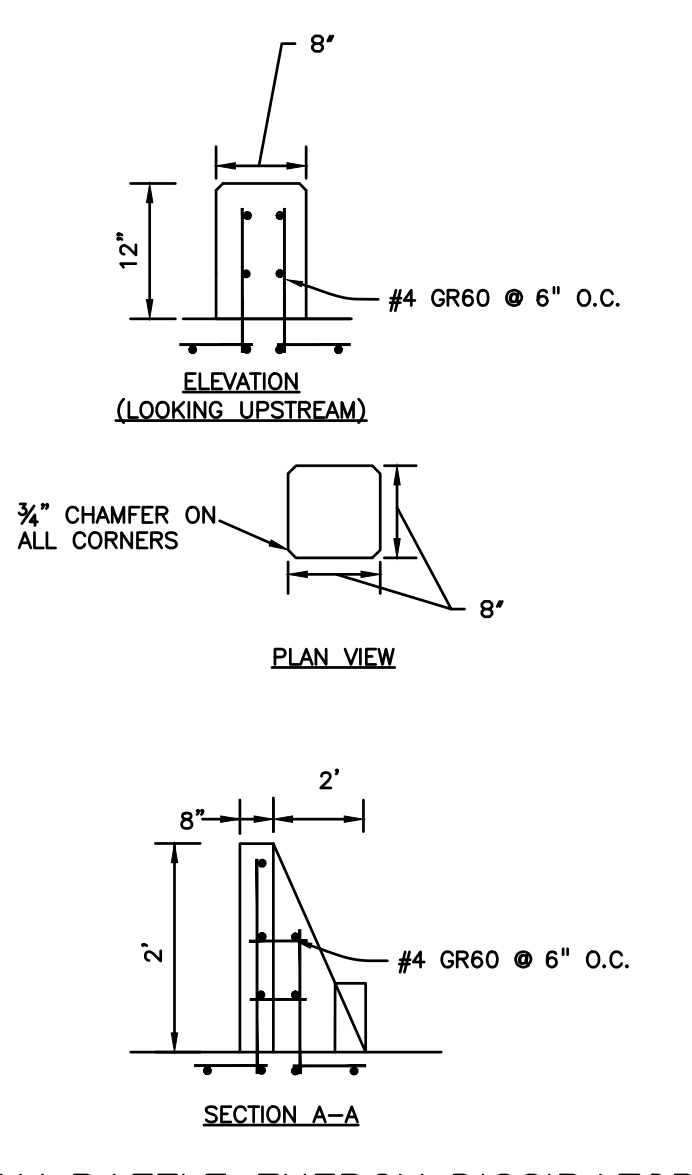
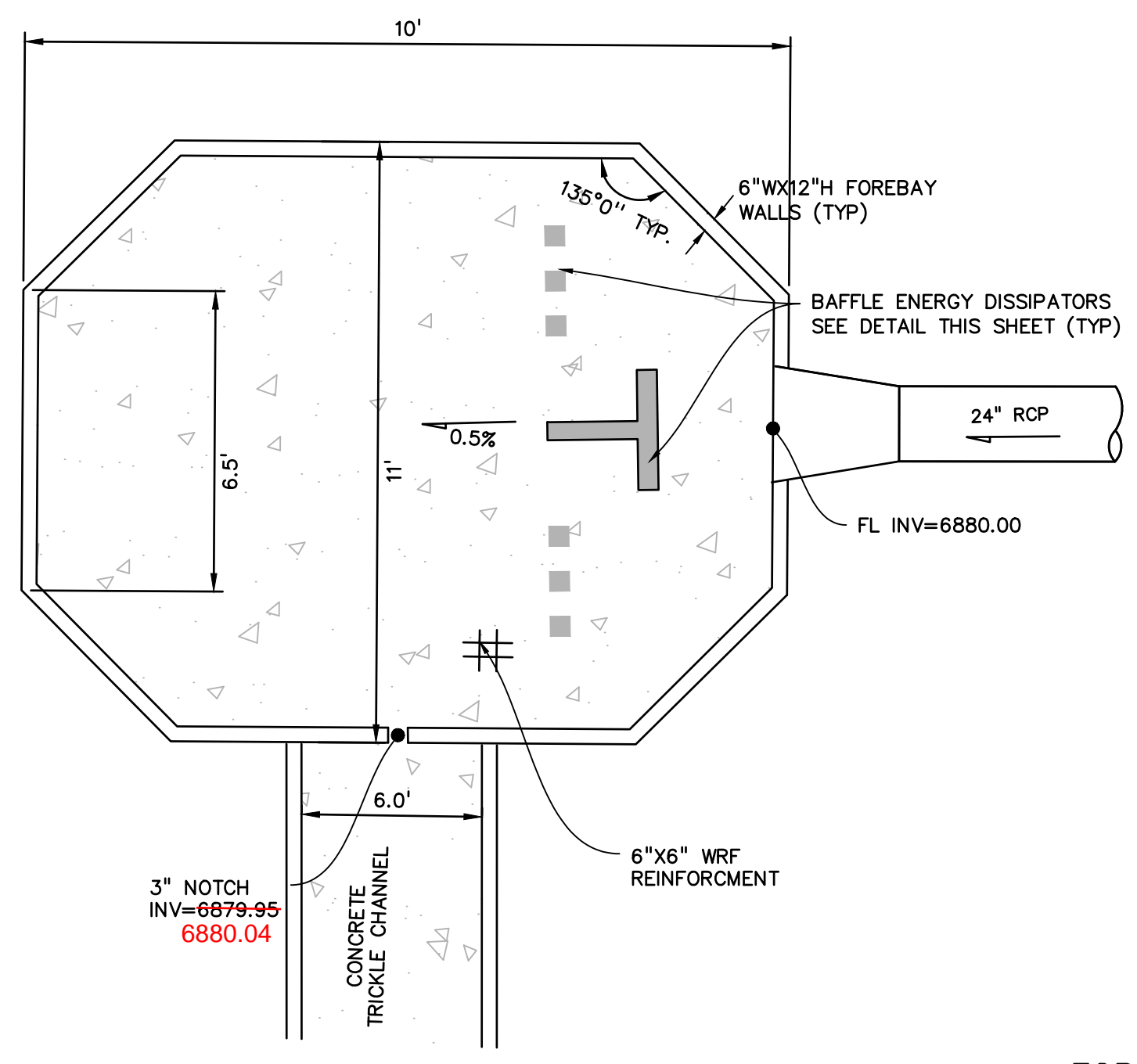
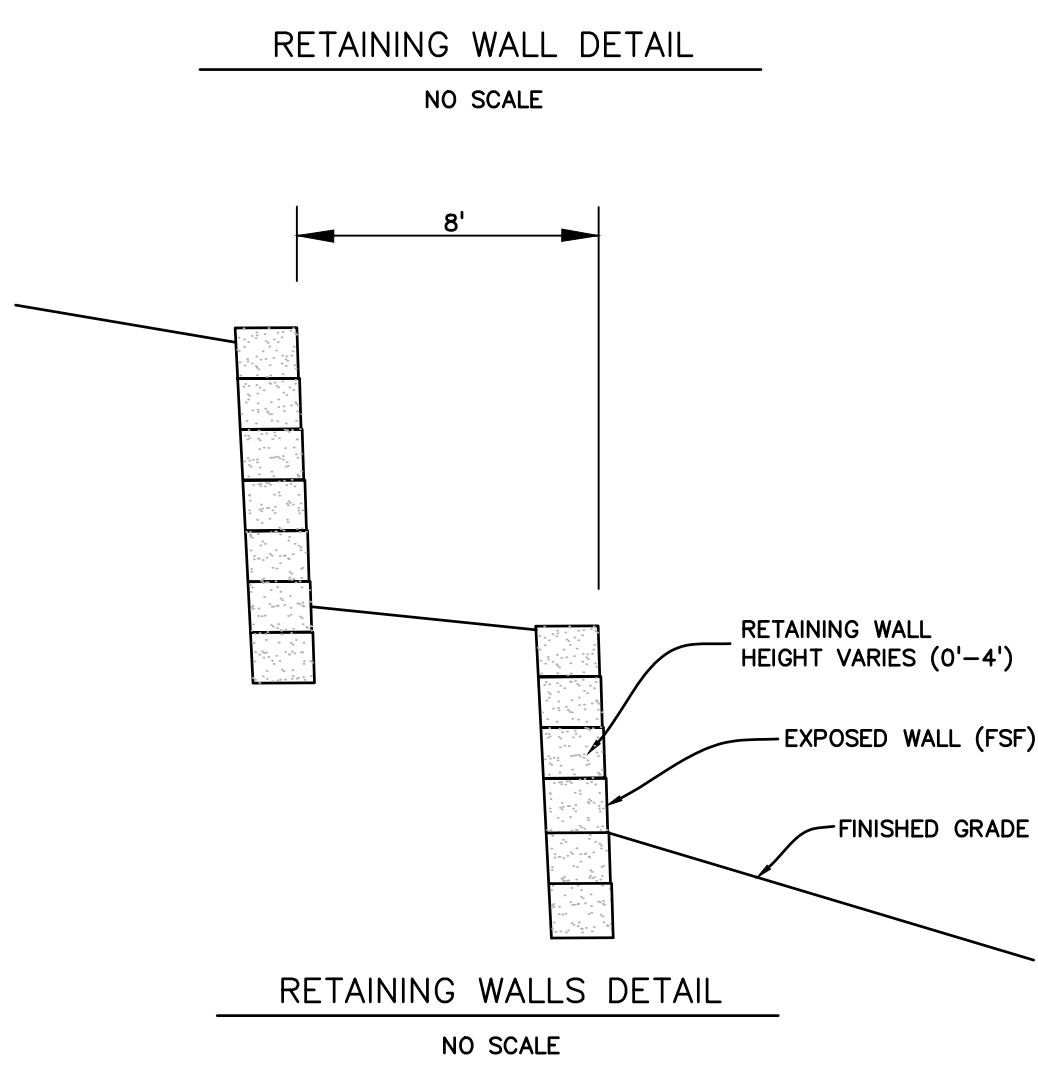
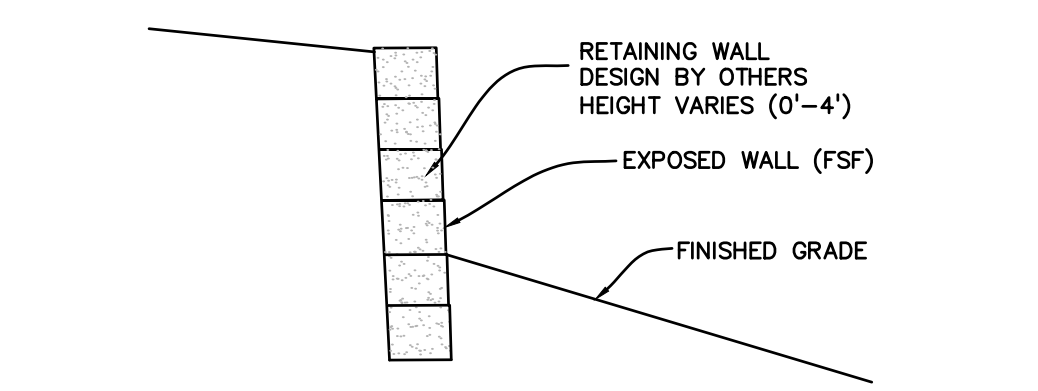
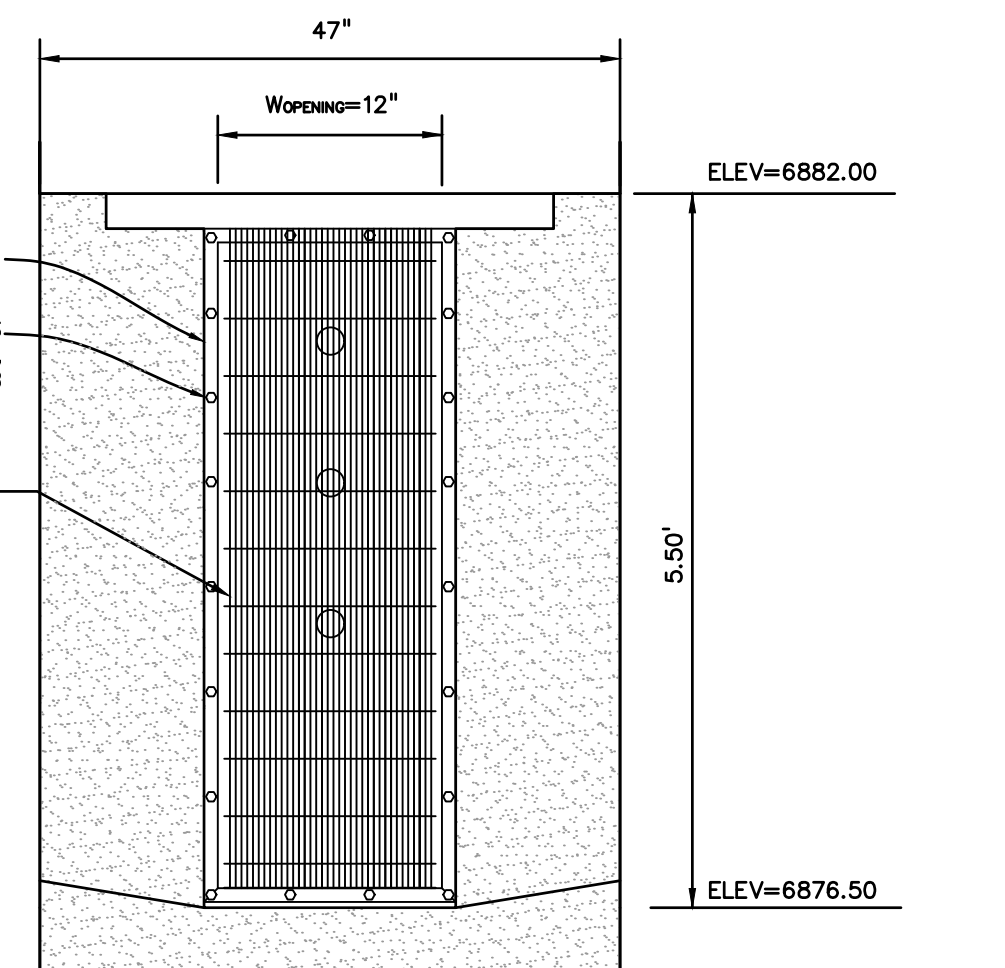
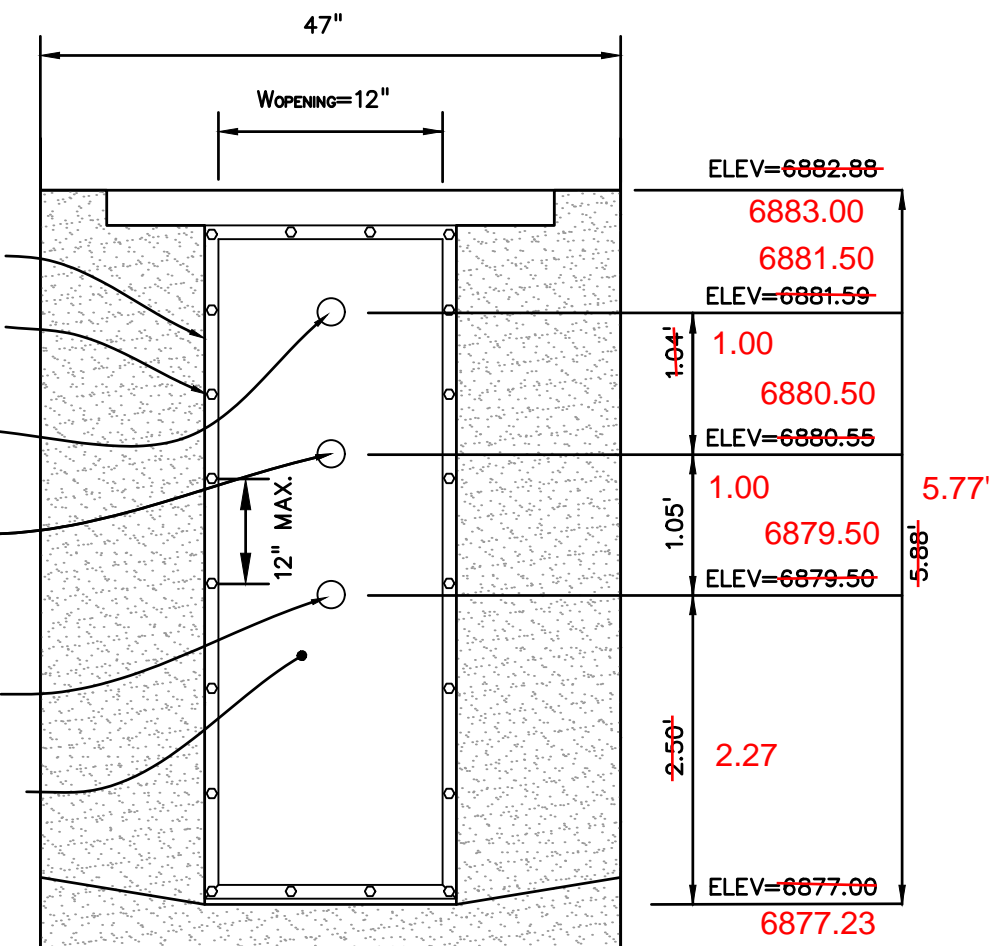
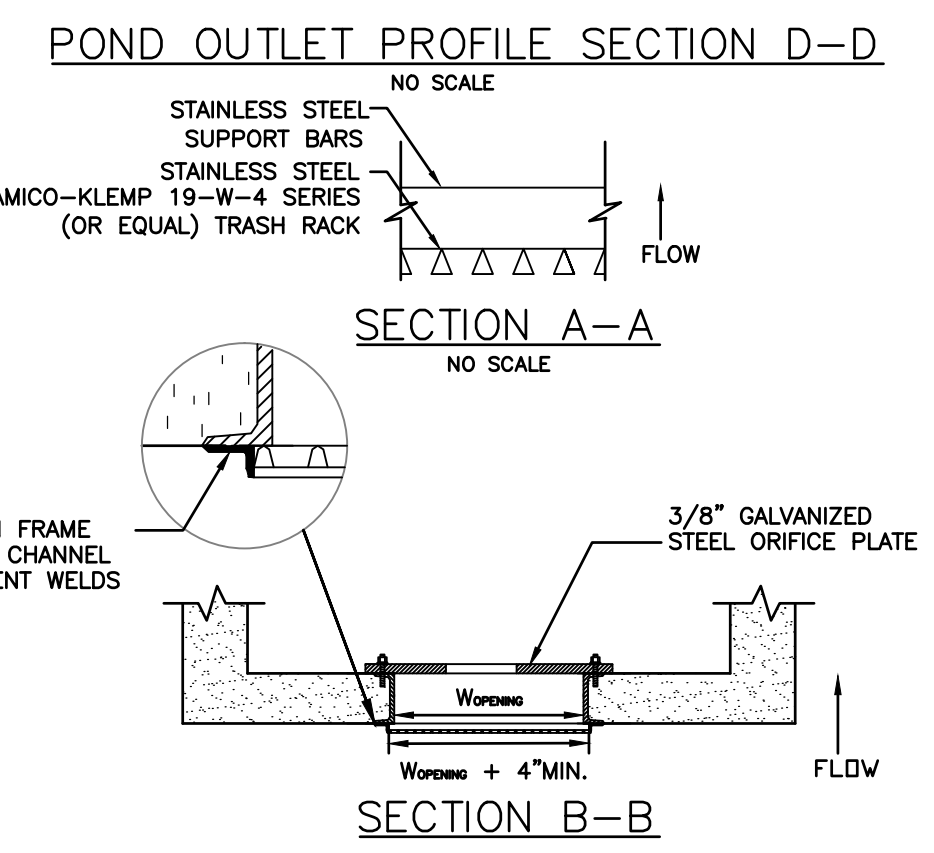
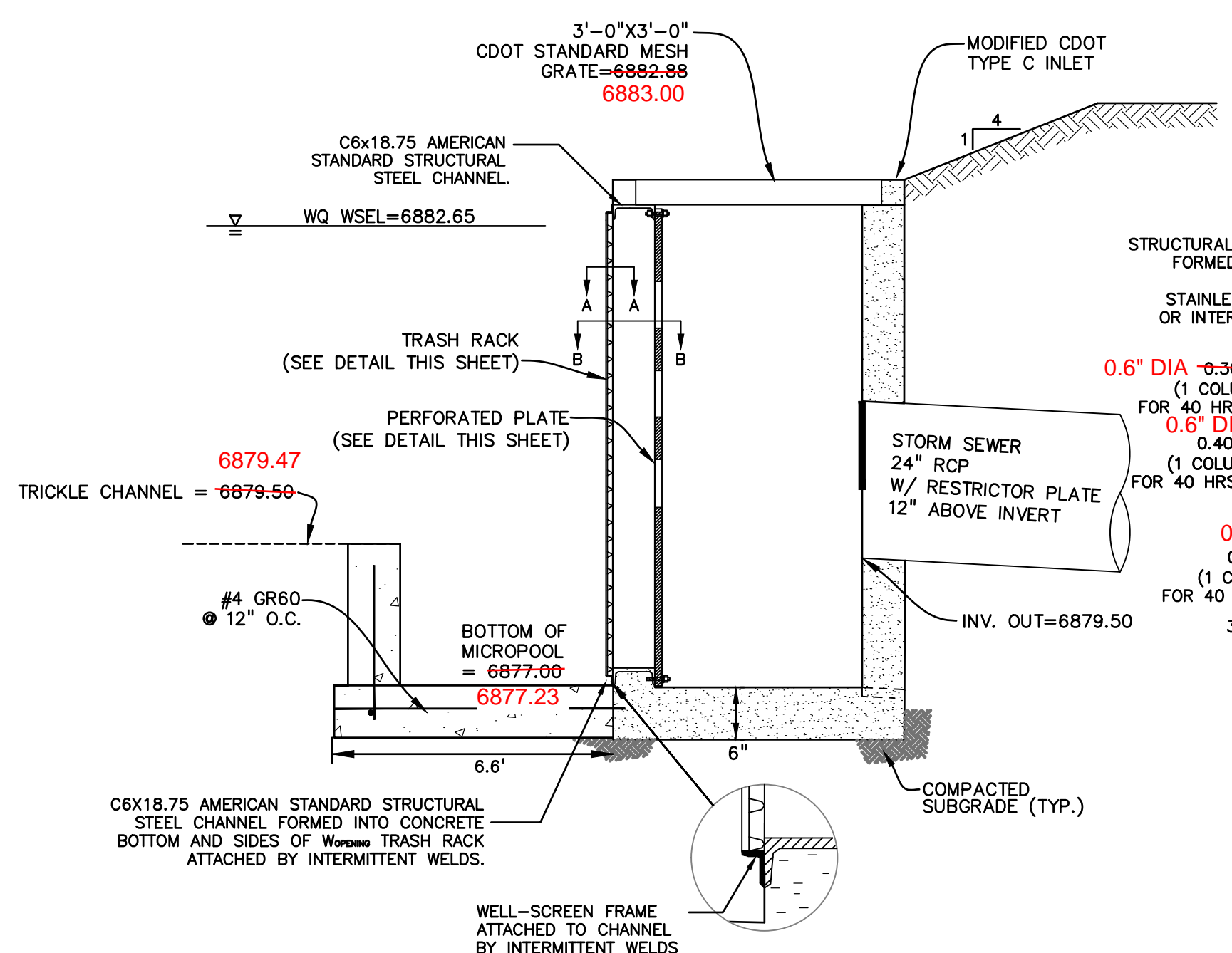
**C7.16**

**SHEET: 45 OF 48**

EPC 10/20/2020  
 EL PASO COUNTY FILE # SF-19-001



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CONSTRUCTION DRAWINGS FOR  
**FALCON MARKETPLACE**  
 FALCON, COLORADO

ISSUE	DATE
90% SUBMITTAL	5-6-19
REVISED	9-23-20
ADDENDUM 1	9-16-20
DESIGNED BY:	TDM
DRAWN BY:	KGV
CHECKED BY:	TDM
FILE NAME:	

PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF DREXEL, BARRELL & CO.  
 DRAWING SCALE:  
 HORIZONTAL: 1"=50'  
 VERTICAL: N/A

**POND #3 & DETAILS**

PROJECT NO. 20988-00CSV  
 DRAWING NO.

**C7.17**

SHEET: 46 OF 48

AS-BUILT  
 10-17-2023

EPC 10/20/2020  
 EL PASO COUNTY FILE # SF-19-001