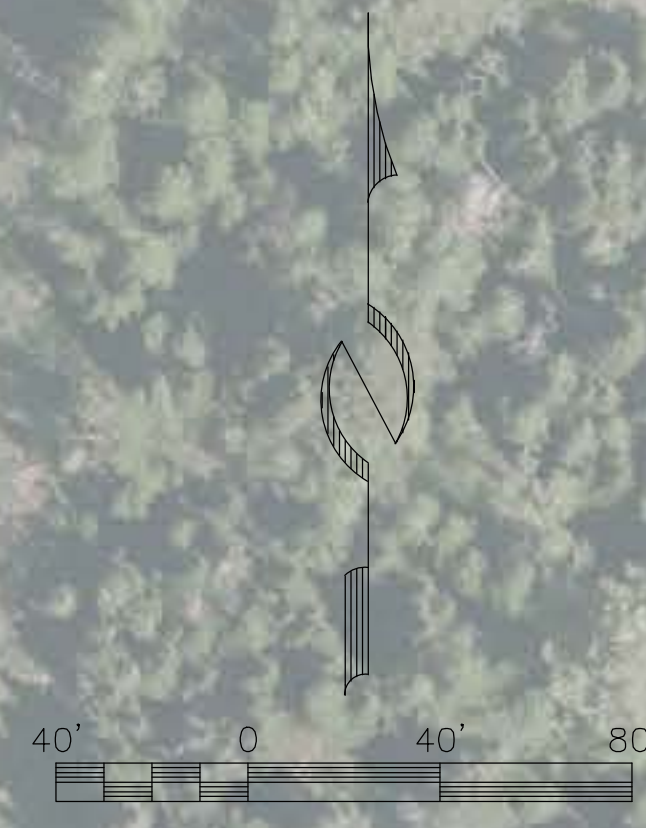
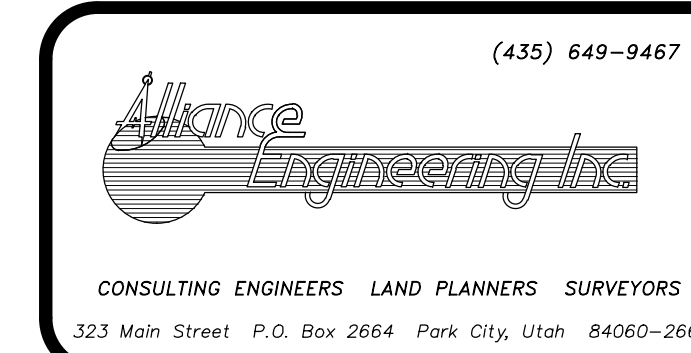




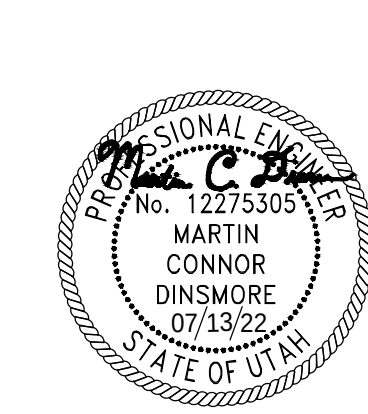
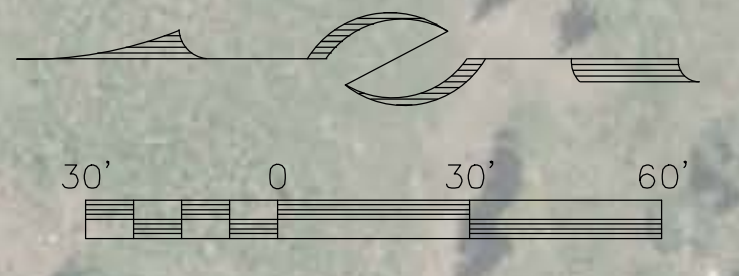
1. See B2 East Subdivision Plat, recorded March 7, 2018, as Entry No. 1087538 in the Summit County Recorder's Office for boundary and easement information.



54 **DATE:** 07/13/2022

JOB NO.: 1-11-18
2 **FILE:** X:\Empire\dwg\B2 East Design\B2 East-Civil.dwg

SHEET
C.01

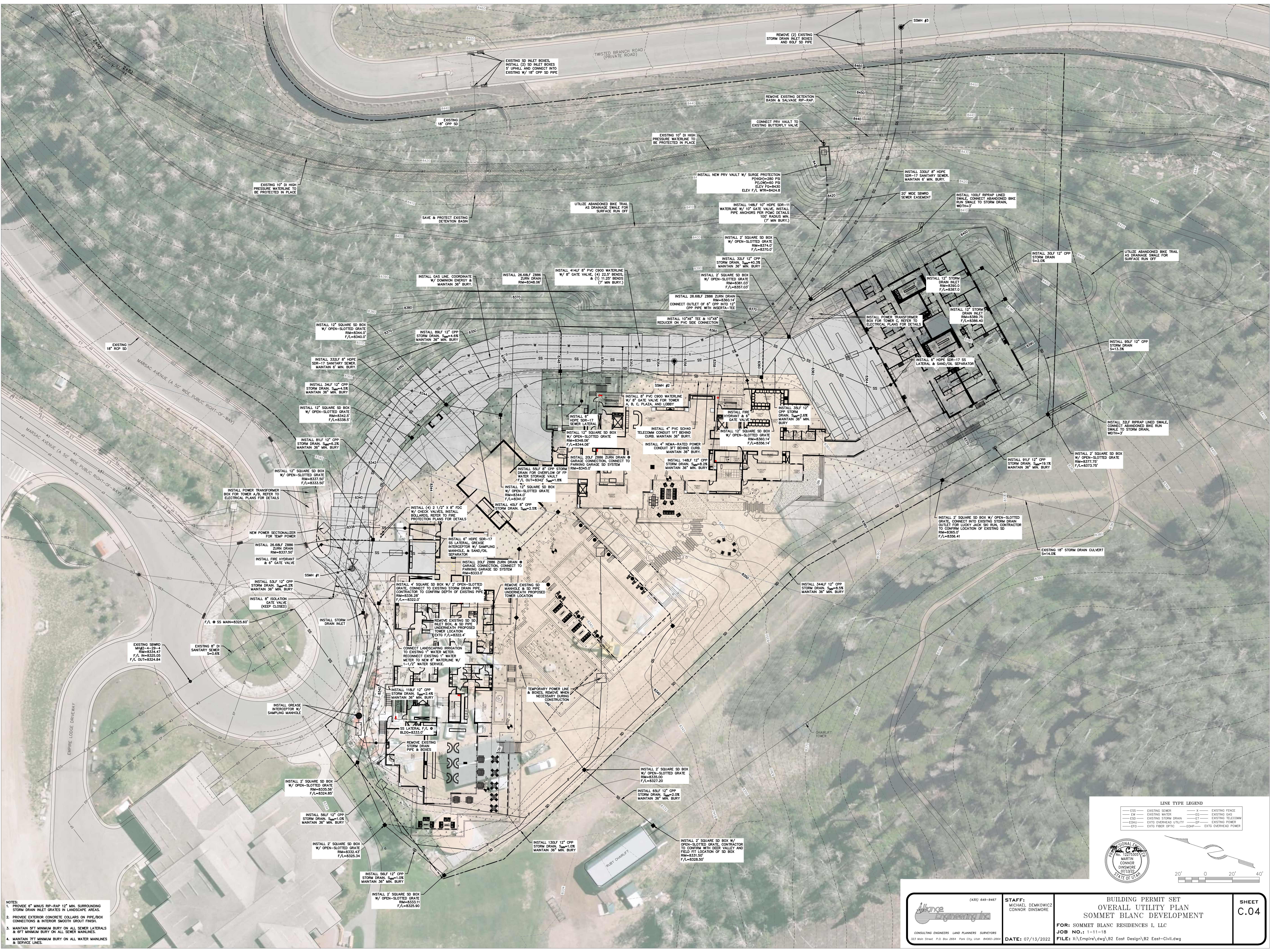


Alliance
CONSULTING ENGINEERS LAND PLANNERS SURVEYORS
325 Main Street P.O. Box 2654 Park City, Utah 84060-2654
(435) 649-9467

STAFF:
MICHAEL DEMKOWICZ
CONNOR DINSCHWIRE
DATE: 07/13/2022

**BUILDING PERMIT SET
OVERALL SITE PLAN
SOMMET BLANC DEVELOPMENT**
FOR: SOMMET BLANC RESIDENCES I, LLC
JOB NO.: 1-11-18
FILE: X:\Empire\dwg\B2 East Design\B2 East-Civil.dwg

**SHEET
C.02**



NOTES:

1. PROVIDE 6" MINUS R.P.-RAP 12" MIN. SURROUNDING STORM DRAIN INLET GRATES IN LANDSCAPE AREAS.
2. PROVIDE EXTERIOR CONCRETE COLLARS ON PIPE/BOX CONNECTIONS & INTERIOR SMOOTH DROUT FINISH.
3. MAINTAIN 3FT MINIMUM BURY ON ALL SEWER LATERALS & 8FT MINIMUM BURY ON ALL SEWER MAINLINES.
4. MAINTAIN 7FT MINIMUM BURY ON ALL WATER MAINLINES & SERVICE LINES.

LINE TYPE LEGEND

ESS	EXISTING SEWER	EW	EXISTING WATER	EG	EXISTING GAS
ESD	EXISTING STORM DRAIN	ET	EXISTING TELECOM		
EDW	EXTD OVERHEAD UTILITY	EP	EXISTING POWER		
ETO	EXTD FIBER OPTIC	EOP	EXTD OVERHEAD POWER		

PROFESSIONAL SEAL

Michael Demkowicz

REGISTERED PROFESSIONAL ENGINEER

NO. 12275505

MARTIN CONNOR

DENVER, CO

07/13/22

STATE OF UTAH

20' 0 20' 40'

ALLIANCE ENGINEERING

(435) 649-9467

CONSULTING ENGINEERS LAND PLANNERS SURVEYORS

123 Main Street P.O. Box 2004 Park City, Utah 84060-2004

STAFF:

MICHAEL DEMKOWICZ

CONNOR DINSMORE

BUILDING PERMIT SET

OVERALL UTILITY PLAN

SOMMET BLANC DEVELOPMENT

FOR: SOMMET BLANC RESIDENCES I, LLC

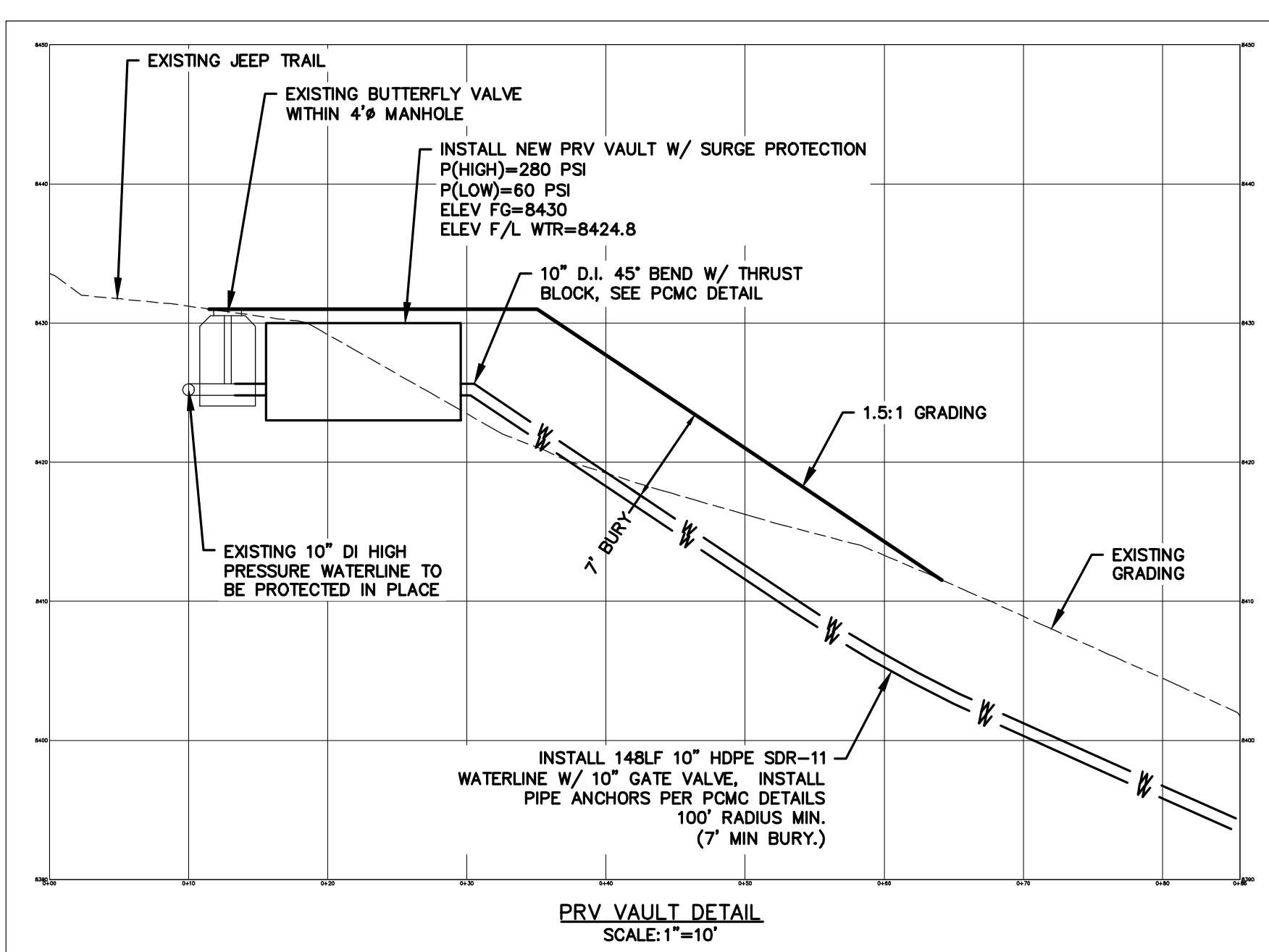
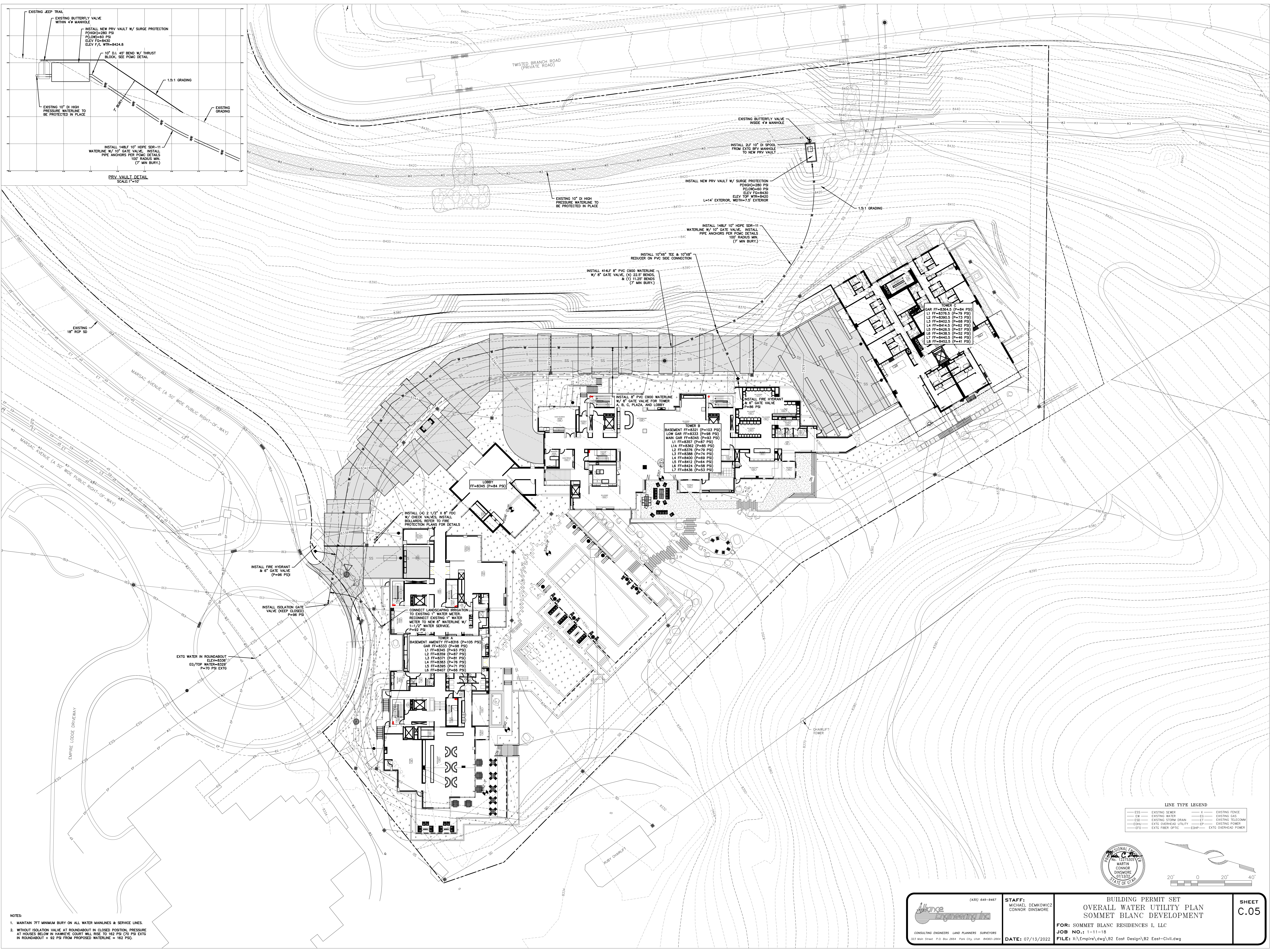
JOB NO.: 1-11-18

DATE: 07/13/2022

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SHEET

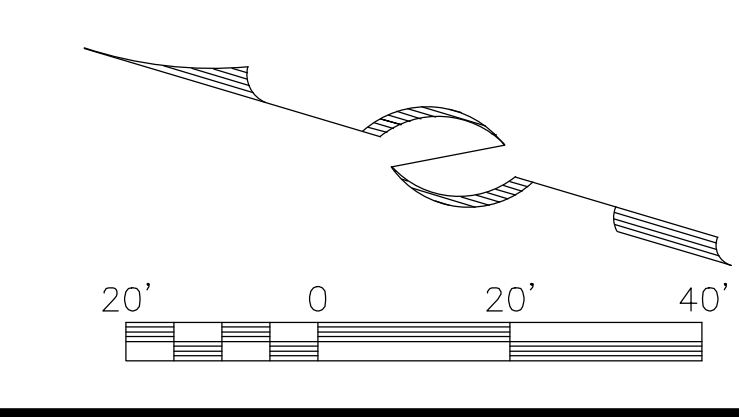
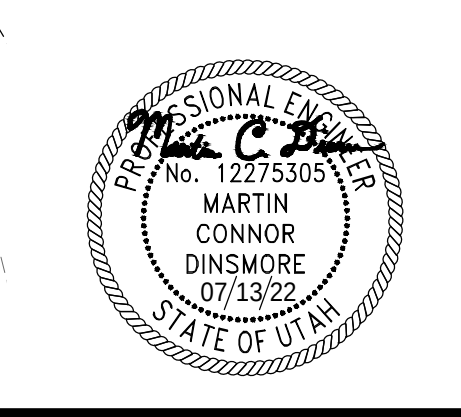
C.04

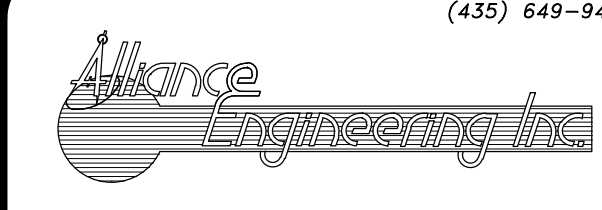


NOTES:

1. MAINTAIN 7FT MINIMUM BURY ON ALL WATER MAINLINES & SERVICE LINES.
2. WITHOUT ISOLATION VALVE AT ROUNDABOUT IN CLOSED POSITION, PRESSURE AT HOUSES BELOW IN HAMCKE COURT WILL RISE TO 162 PSI (70 PSI EXTG IN ROUNDABOUT + 92 PSI FROM PROPOSED WATERLINE + 162 PSI).

LINE TYPE LEGEND			
ESS	EXISTING SEWER	X	EXISTING FENCE
EW	EXISTING WATER	CG	EXISTING GAS
ESD	EXISTING STORM DRAIN	ET	EXISTING TELECOM
EOH	EXTG OVERHEAD UTILITY	EP	EXISTING POWER
ETO	EXTG OVERHEAD POWER	EQHP	EXTG OVERHEAD POWER





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CONSULTING ENGINEERS LAND PLANNERS SURVEYORS

123 Main Street P.O. Box 2004 Park City Utah 84060-2004

STAFF:

MICHAEL DEMKOWICZ

CONNOR DINSWORE

DATE: 07/13/2022

BUILDING PERMIT SET

OVERALL WATER UTILITY PLAN

SOMMET BLANC DEVELOPMENT

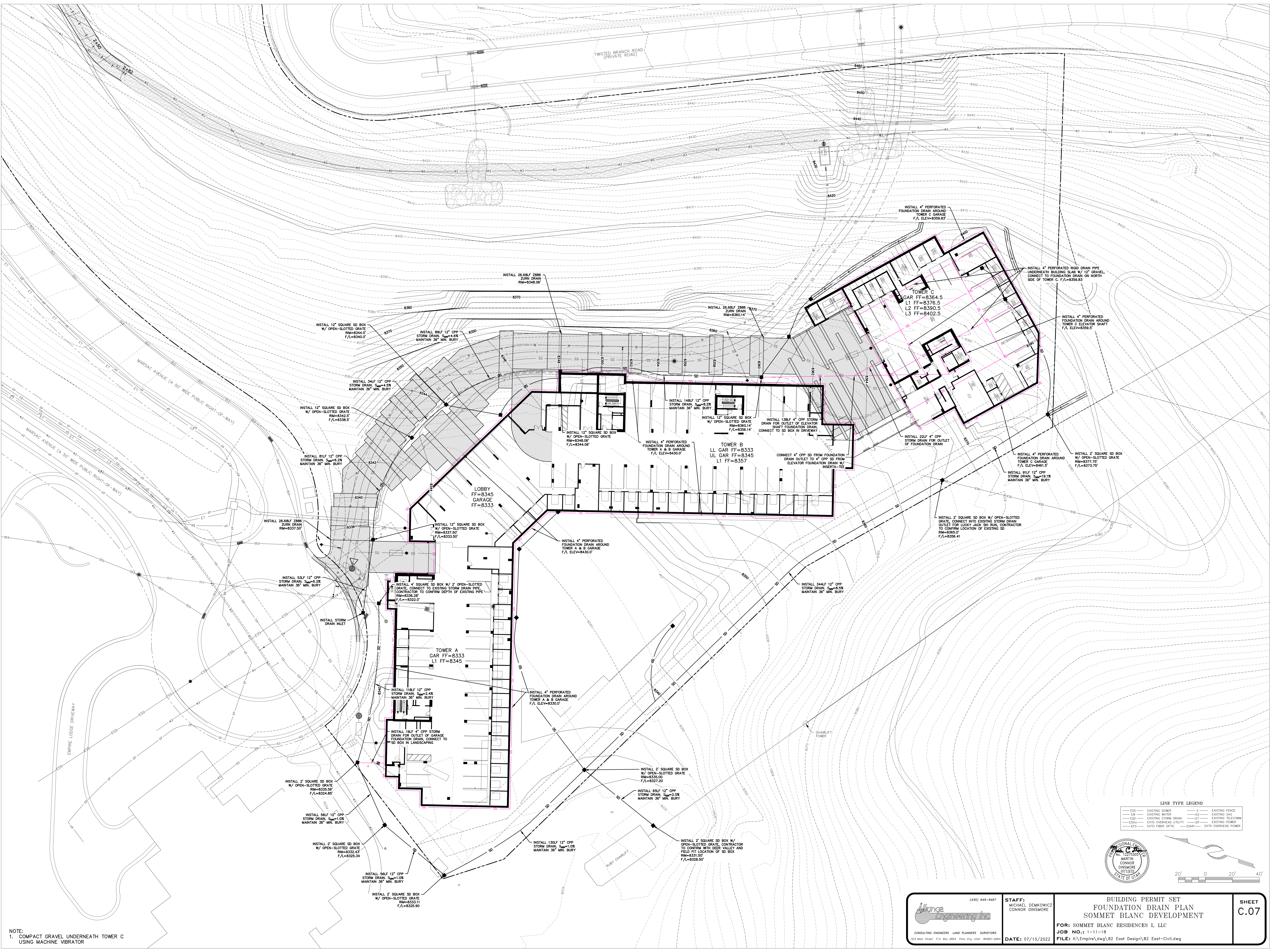
FOR: SOMMET BLANC RESIDENCES I, LLC

JOB NO.: 1-11-18

FILE: X:\Empire\dwg\B2 East Design\B2 East-Civil.dwg

SHEET

C.05



NOTE:
1. COMPACT GRAVEL UNDERNEATH TOWER C
USING MACHINE VIBRATOR

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CONSULTING ENGINEERS LAND PLANNERS SURVEYORS

123 Main Street P.O. Box 2004 Park City, Utah 84060-2004

STAFF:
MICHAEL DEMKOWICZ
CONNOR DINSMORE

DATE: 07/13/2022

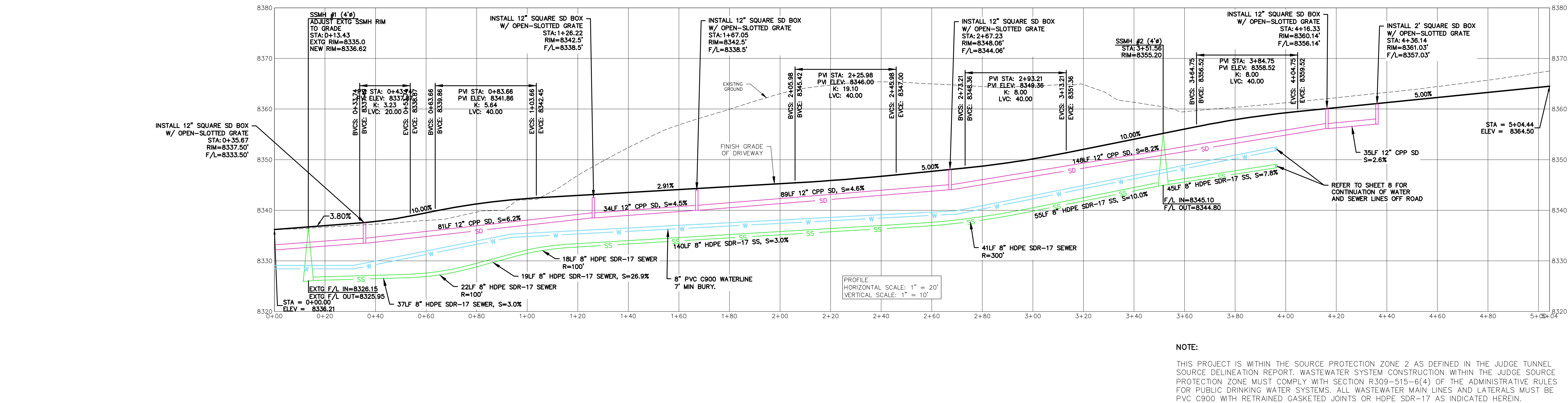
BUILDING PERMIT SET
FOUNDATION DRAIN PLAN
SOMMET BLANC DEVELOPMENT

FOR: SOMMET BLANC RESIDENCES I, LLC

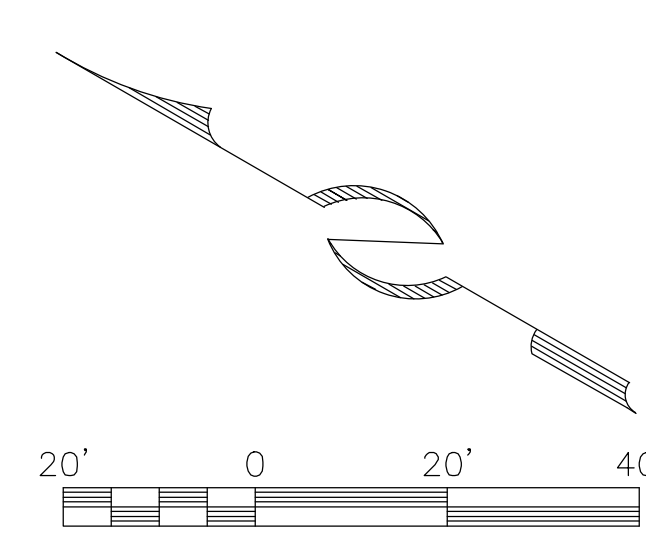
JOB NO.: 1-11-18

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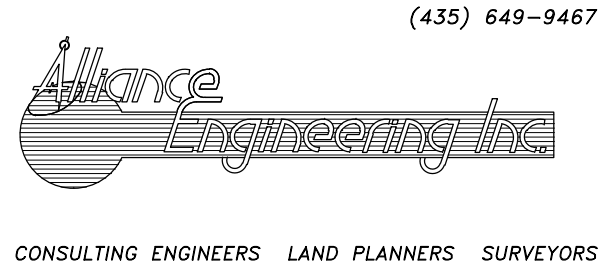
SHEET
C.07



THIS PROJECT IS WITHIN THE SOURCE PROTECTION ZONE 2 AS DEFINED IN THE JUDGE TUNNEL SOURCE DELINEATION REPORT. WASTEWATER SYSTEM CONSTRUCTION WITHIN THE JUDGE SOURCE PROTECTION ZONE MUST COMPLY WITH SECTION R309-515-(6/4) OF THE ADMINISTRATIVE RULES FOR PUBLIC DRINKING WATER SYSTEMS. ALL WASTEWATER MAIN LINES AND LATERALS MUST BE PVC C900 WITH RETRAINED GASKETED JOINTS OR HDPE SDR-17 AS INDICATED HEREIN.



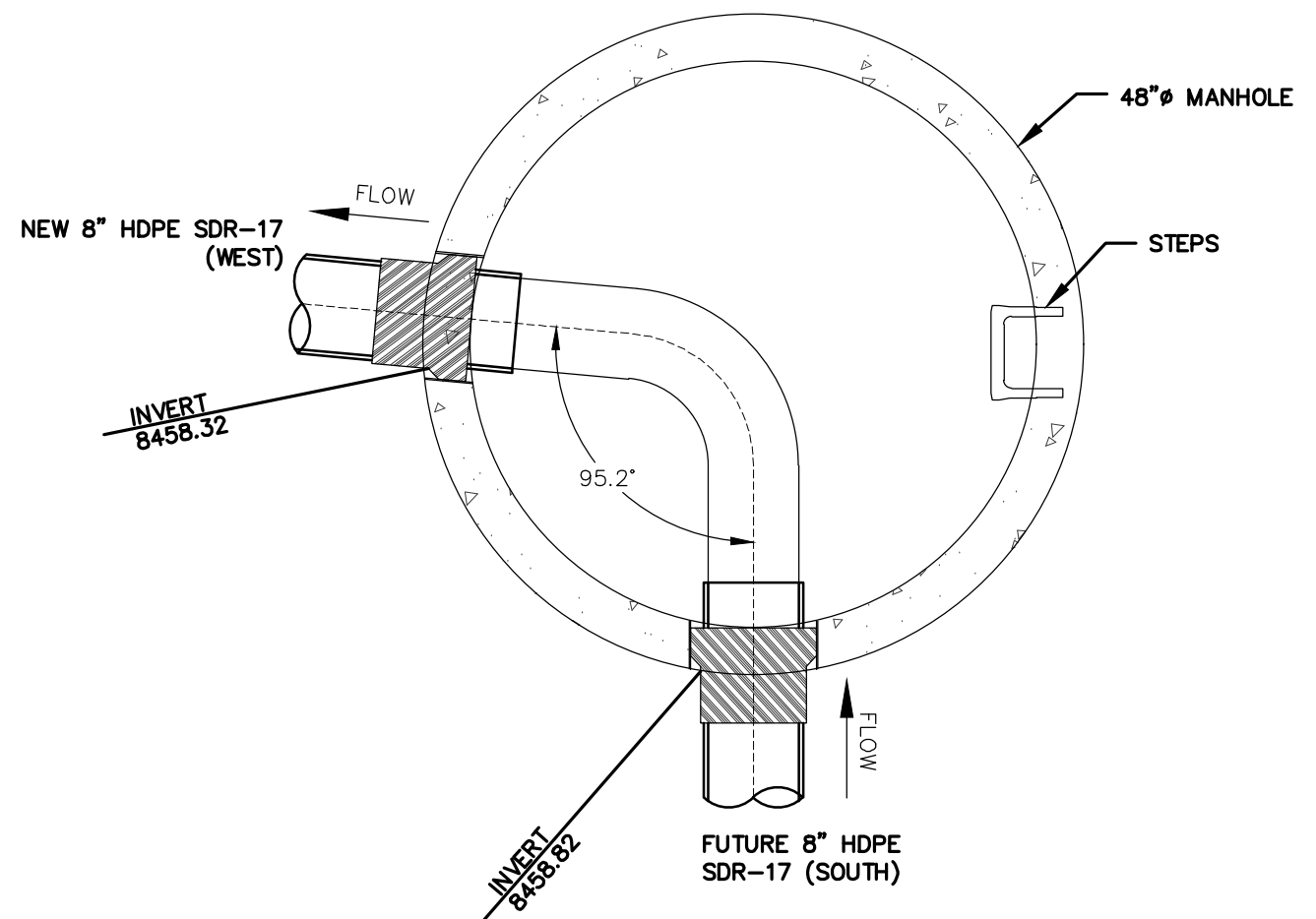
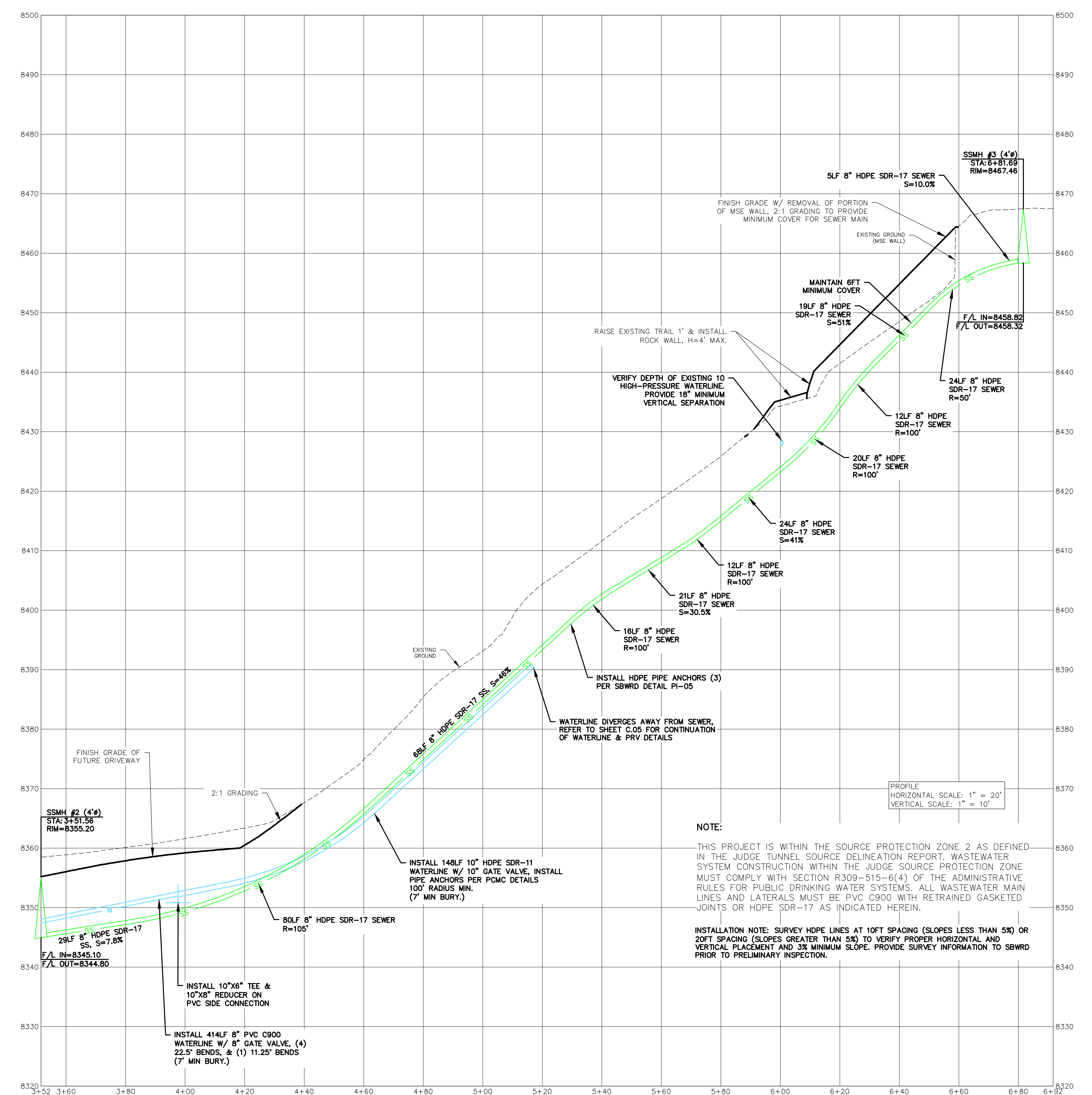
INSTALLATION NOTE: SURVEY HDPE LINES AT 10FT SPACING (SLOPES LESS THAN 5%) 20FT SPACING (SLOPES GREATER THAN 5%) TO VERIFY PROPER HORIZONTAL AND VERTICAL PLACEMENT AND 3% MINIMUM SLOPE. PROVIDE SURVEY INFORMATION TO SB PRIOR TO PRELIMINARY INSPECTION.



Journal of Management Education 36(7)p.809-824

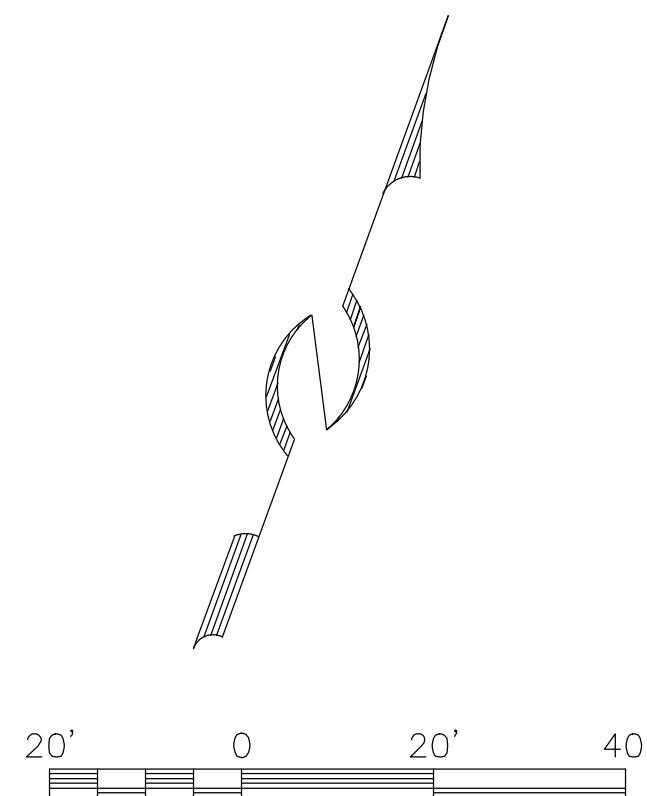
FOR: SOMMET BLANC RESIDENCES I, LLC
JOB NO.: 1-11-18
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SHEET
C.08

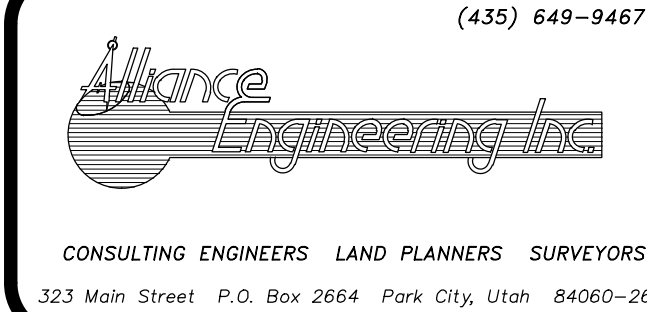
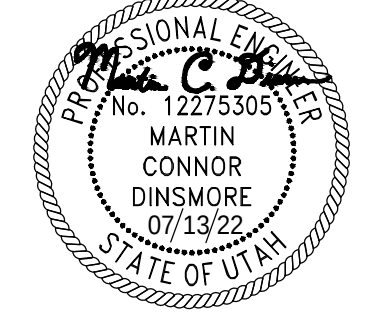


NOTES:

1. PROVIDE EXTERIOR CONCRETE COLLARS ON PIPE/BOX CONNECTIONS & INTERIOR SMOOTH GROUT FINISH.
2. MAINTAIN 5FT MINIMUM BURY ON ALL SEWER LATERALS & 6FT MINIMUM BURY ON ALL SEWER MAINLINES.
3. MAINTAIN 7FT MINIMUM BURY ON ALL WATER MAINLINES & SERVICE LINES.
4. MAINTAIN 36" MINIMUM BURY ON ALL STORM DRAIN.
5. MAINTAIN 18" MINIMUM VERTICAL SEPARATION BETWEEN NEW WATER & SEWER.



LINE TYPE LEGEND			
—ESS—	EXISTING SEWER	—X—	EXISTING FENCE
—EW—	EXISTING WATER	—EG—	EXISTING GAS
—ESD—	EXISTING STORM DRAIN	—ET—	EXISTING TELECOMM
—EOHU—	EXTG OVERHEAD UTILITY	—EP—	EXISTING POWER
—EFO—	EXTG FIBER OPTIC	—EOHP—	EXTG OVERHEAD POWER



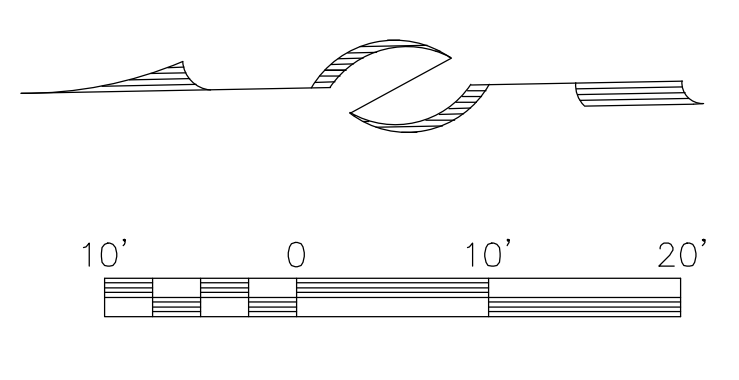
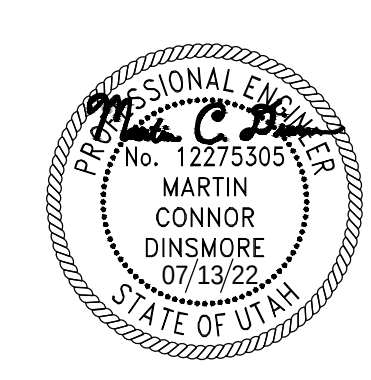
STAFF:
MICHAEL DEMKOWICZ
CONNOR DINSMORE

DATE: 07/13/2022

BUILDING PERMIT SET
OFF ROAD SEWER PLAN & PROFILE
SOMMET BLANC DEVELOPMENT

SHEET
C.09

FOR: SOMMET BLANC RESIDENCES I, LLC
JOB NO.: 1-11-18
FILE: X:\Empire\dwg\B2 East Design\B2 East-Civil.dwg

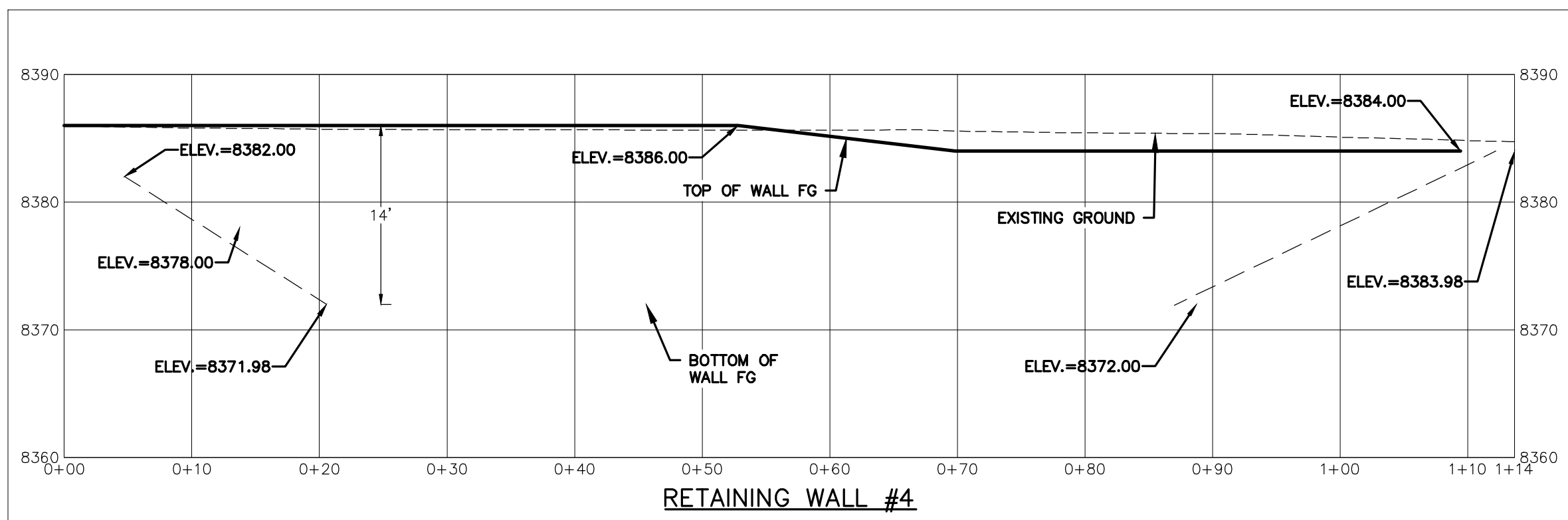
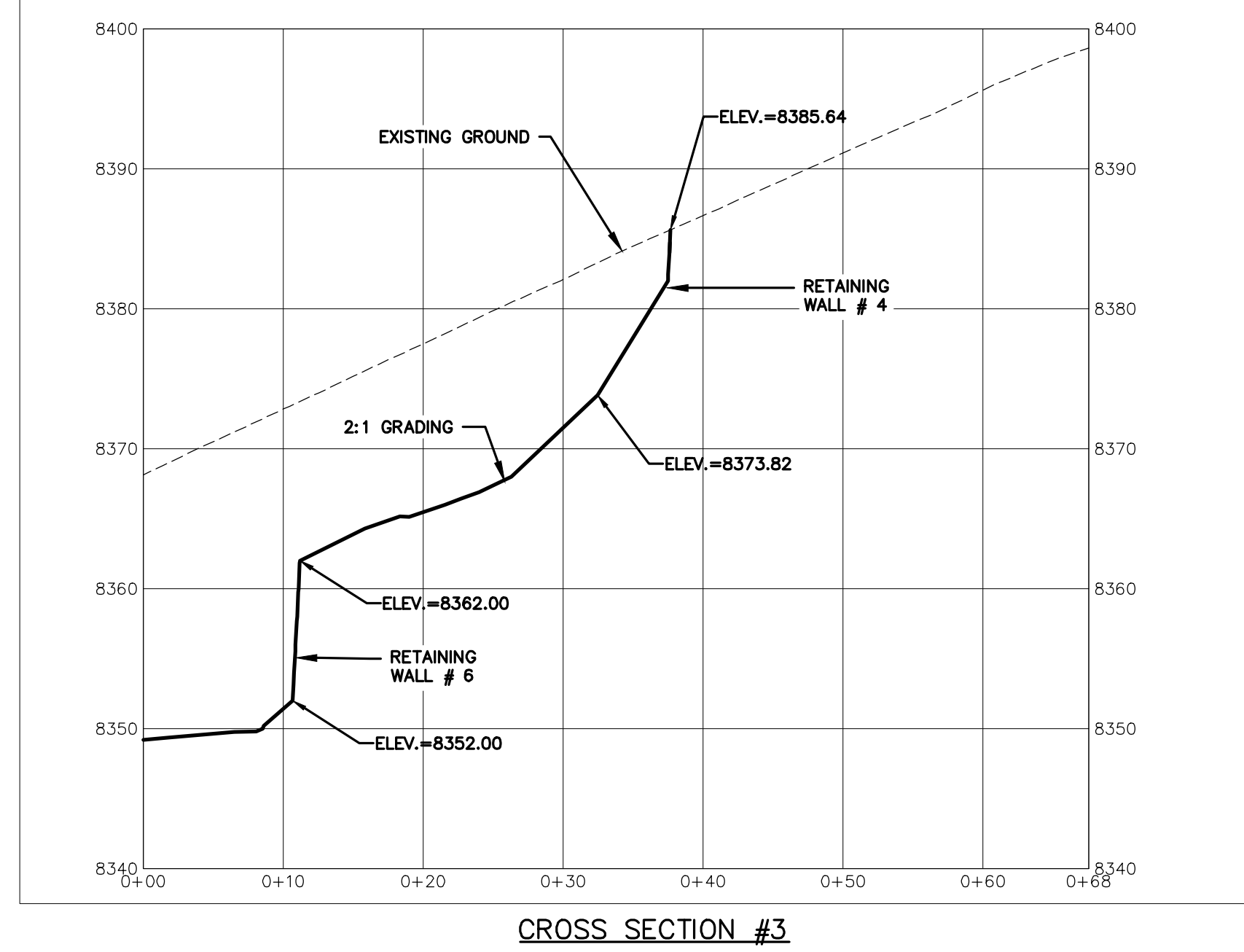
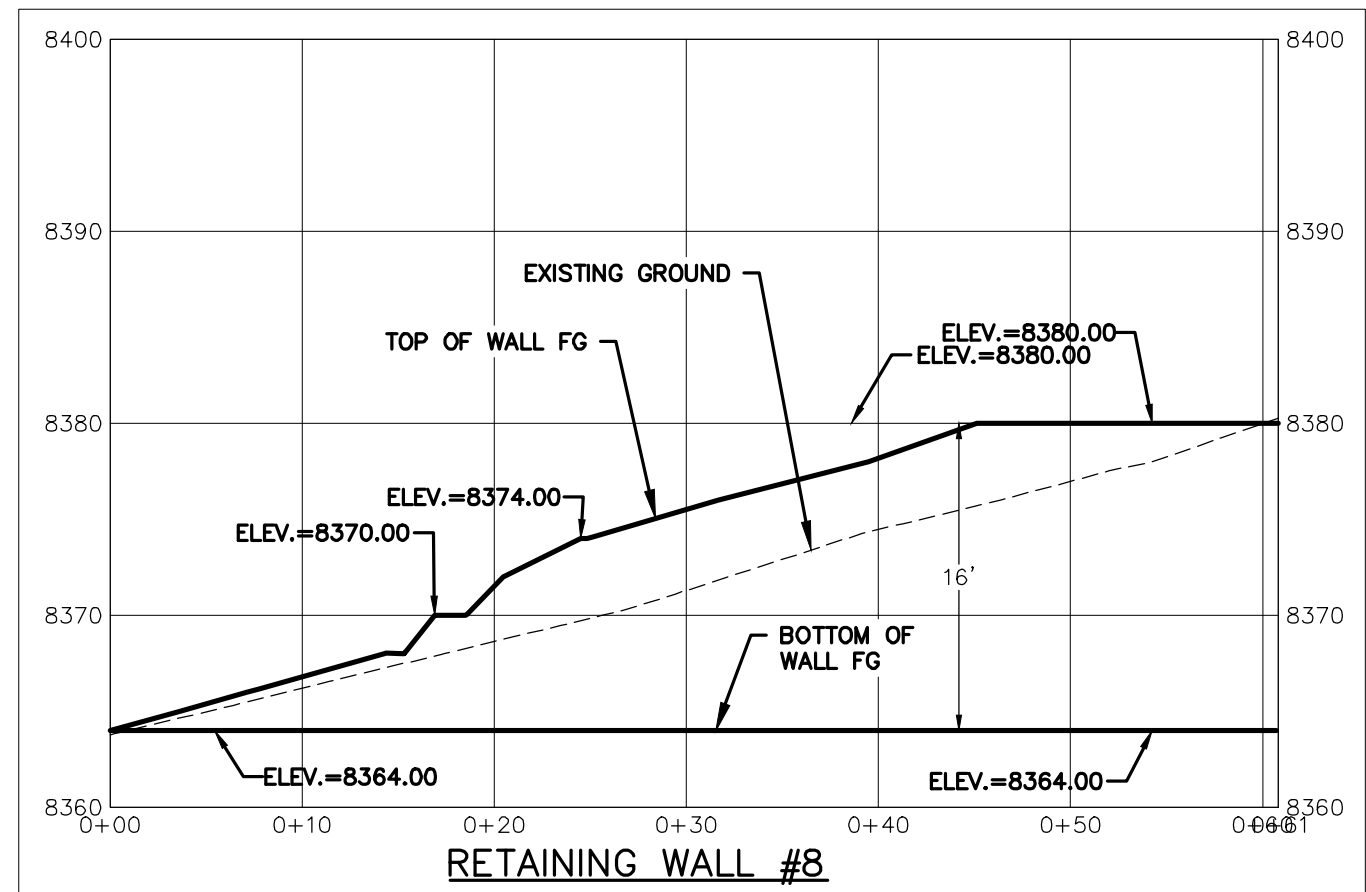
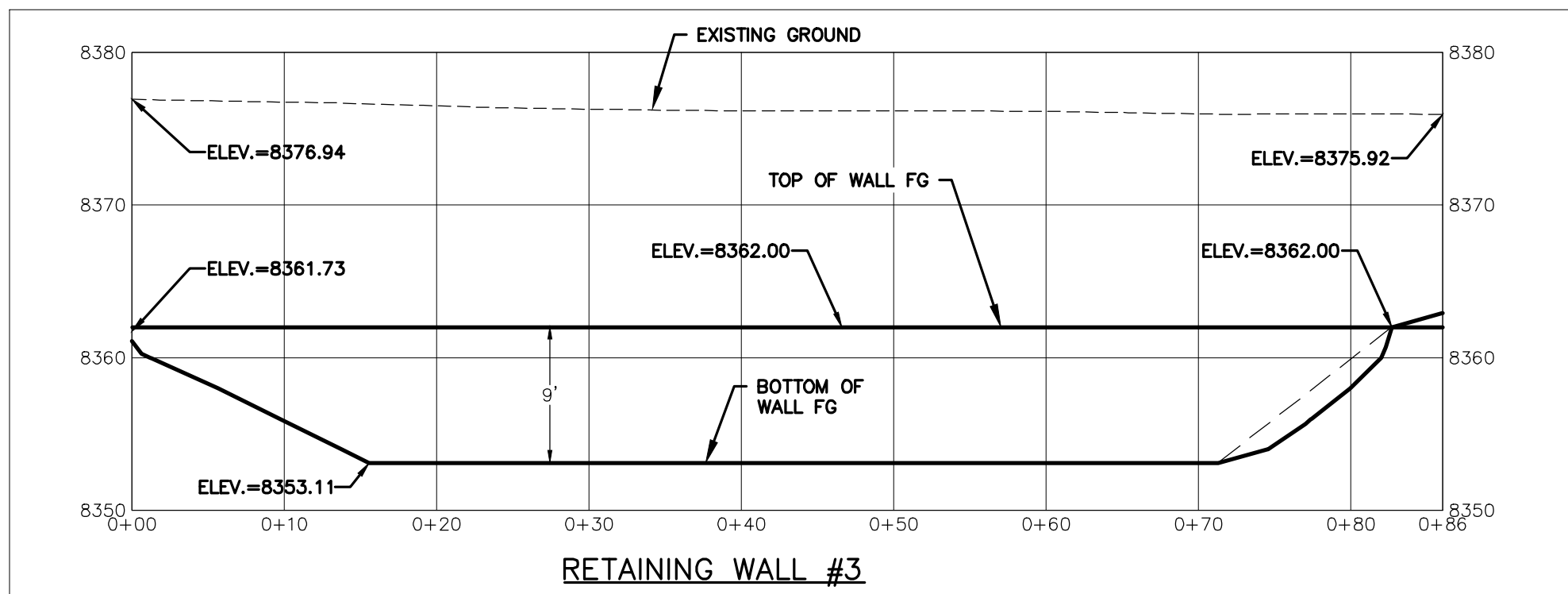
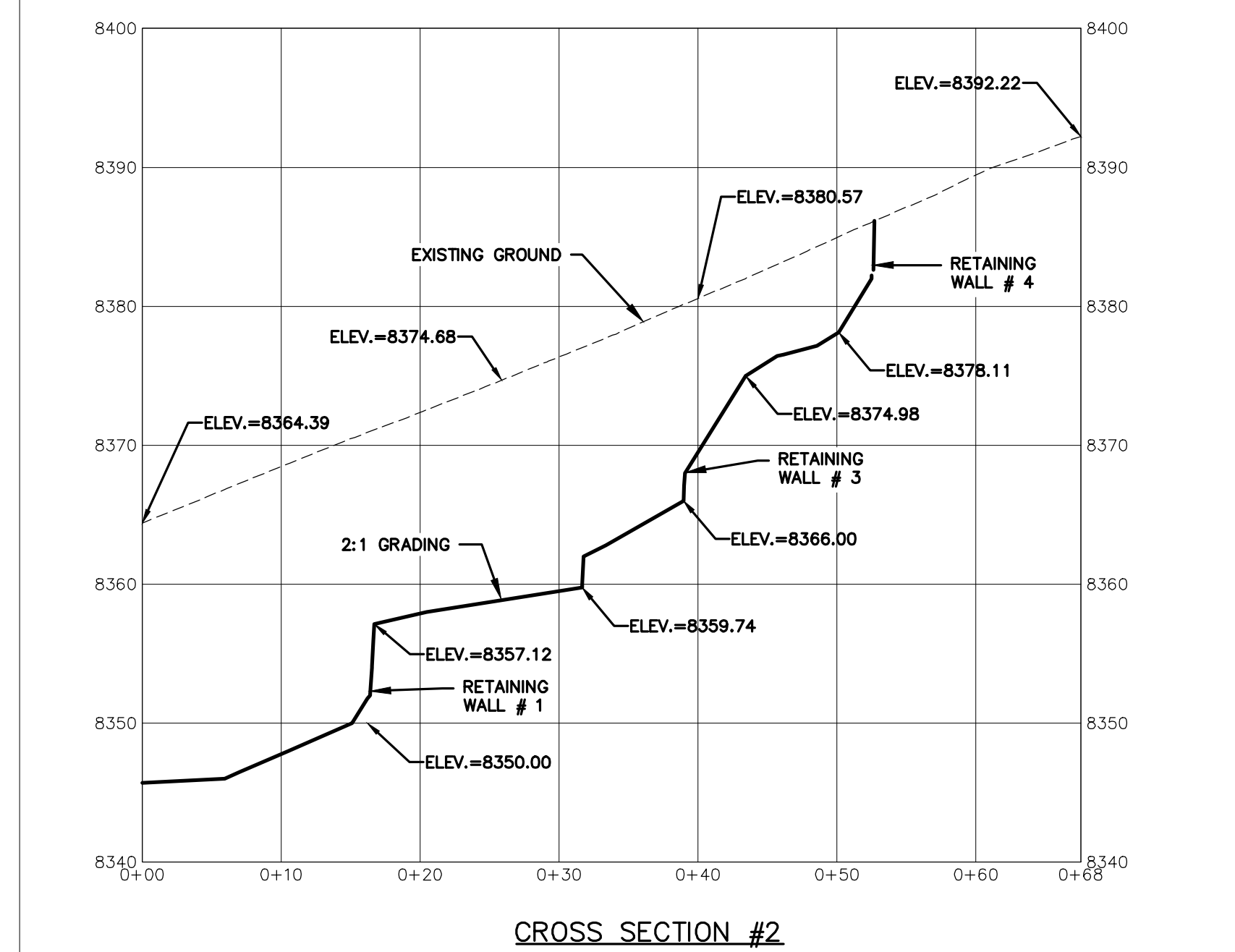
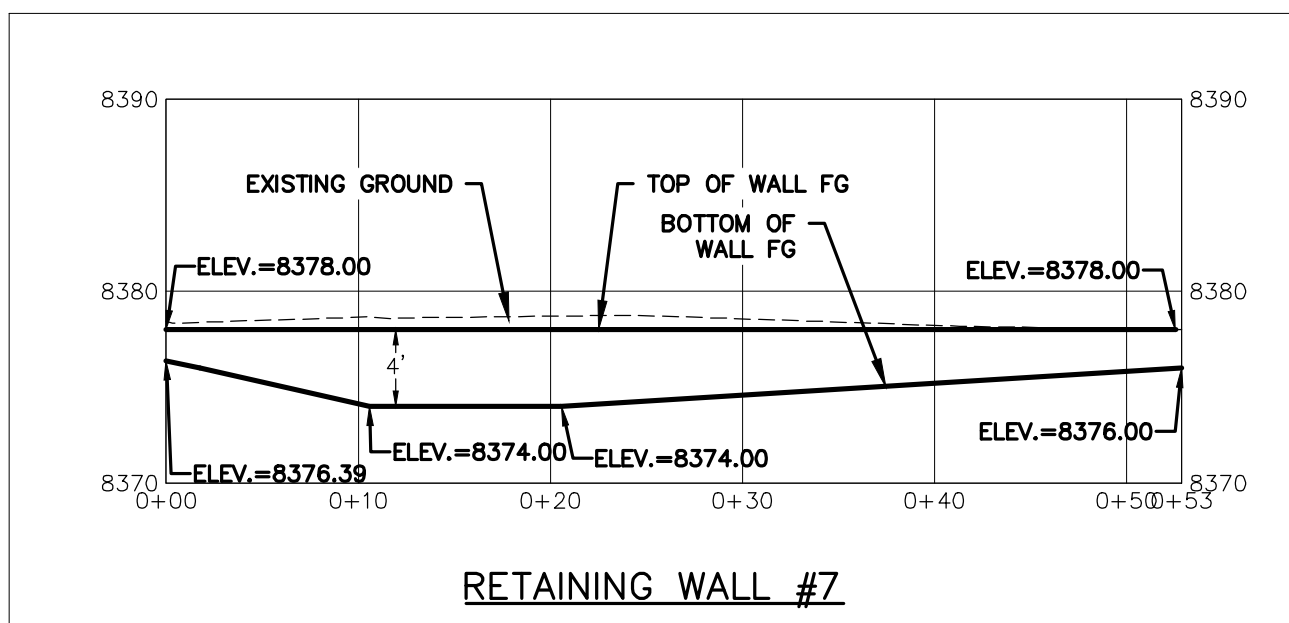
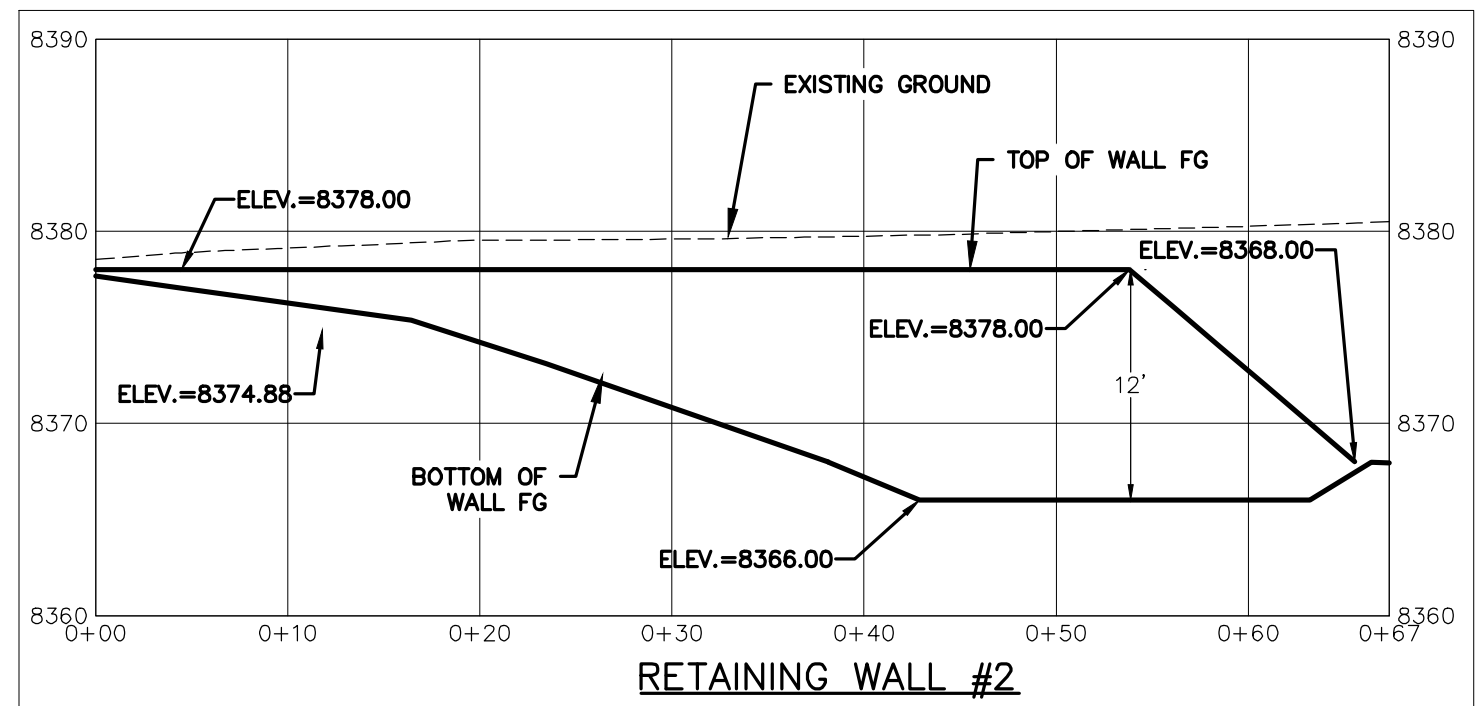
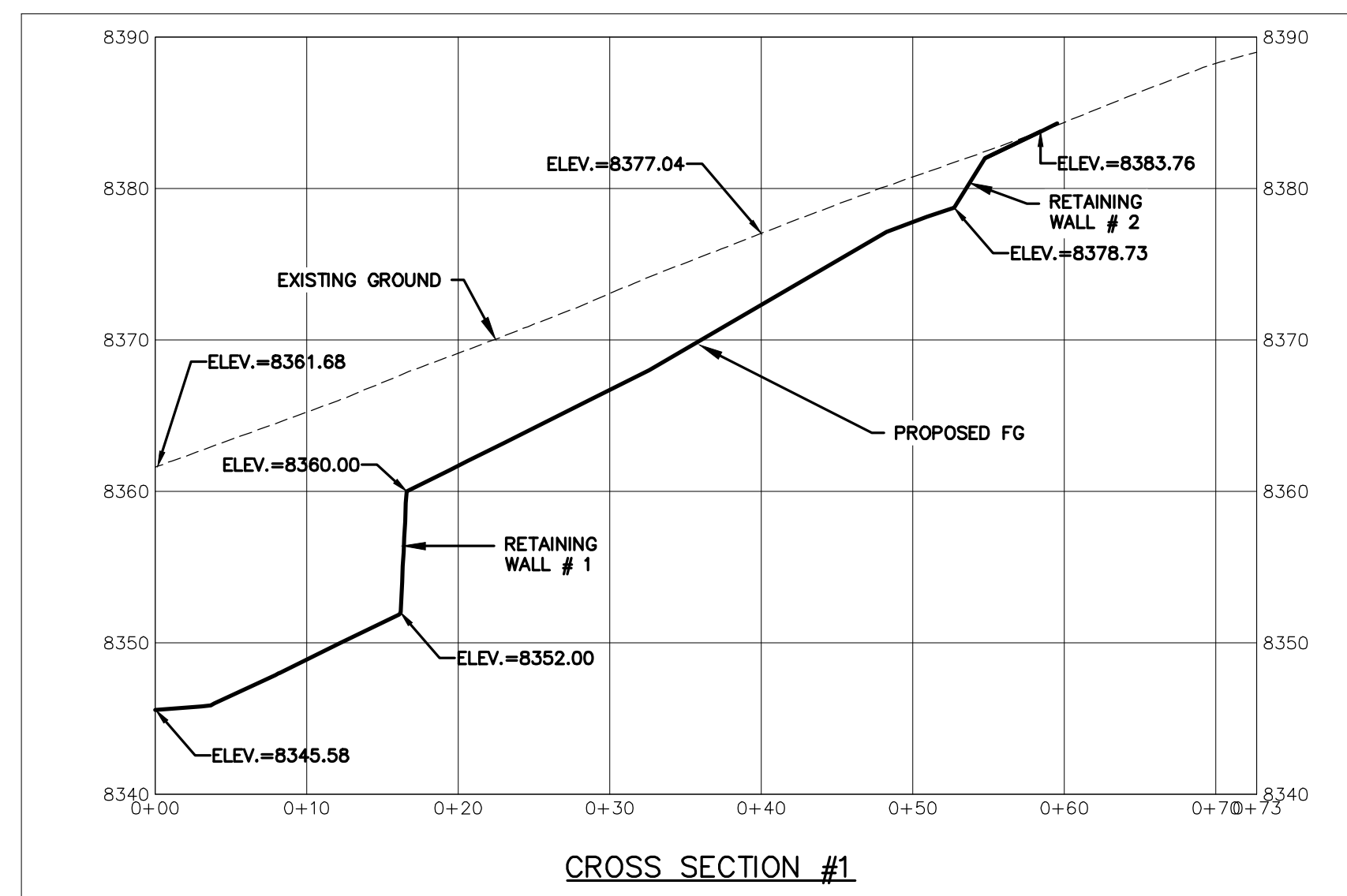
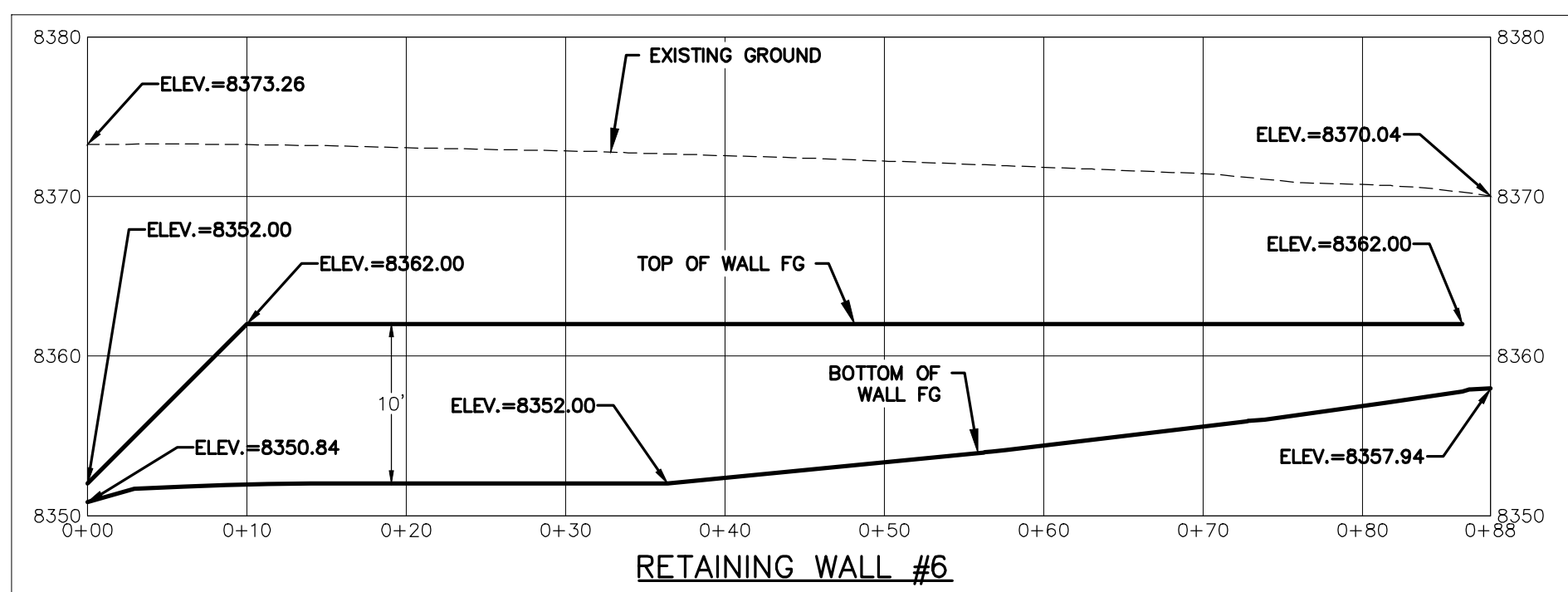
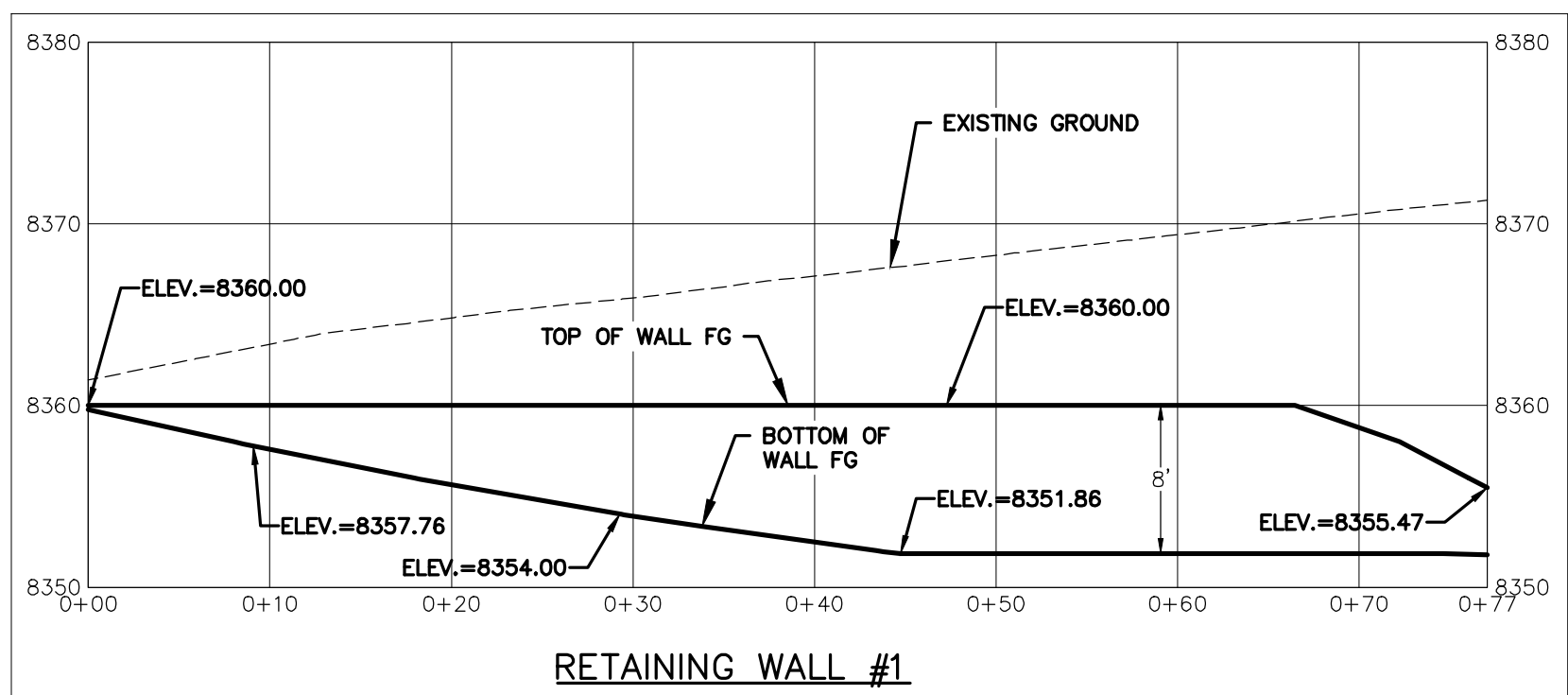


alliance (435) 649-9467
 CONSULTING ENGINEERS LAND PLANNERS SURVEYORS
 122 Main Street P.O. Box 2054 Park City, Utah 84060-2054

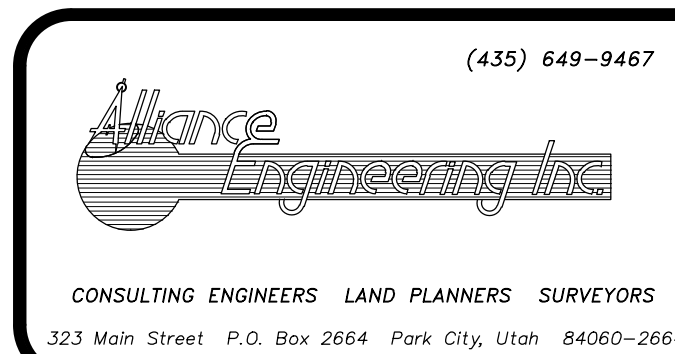
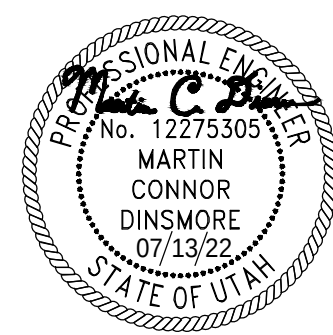
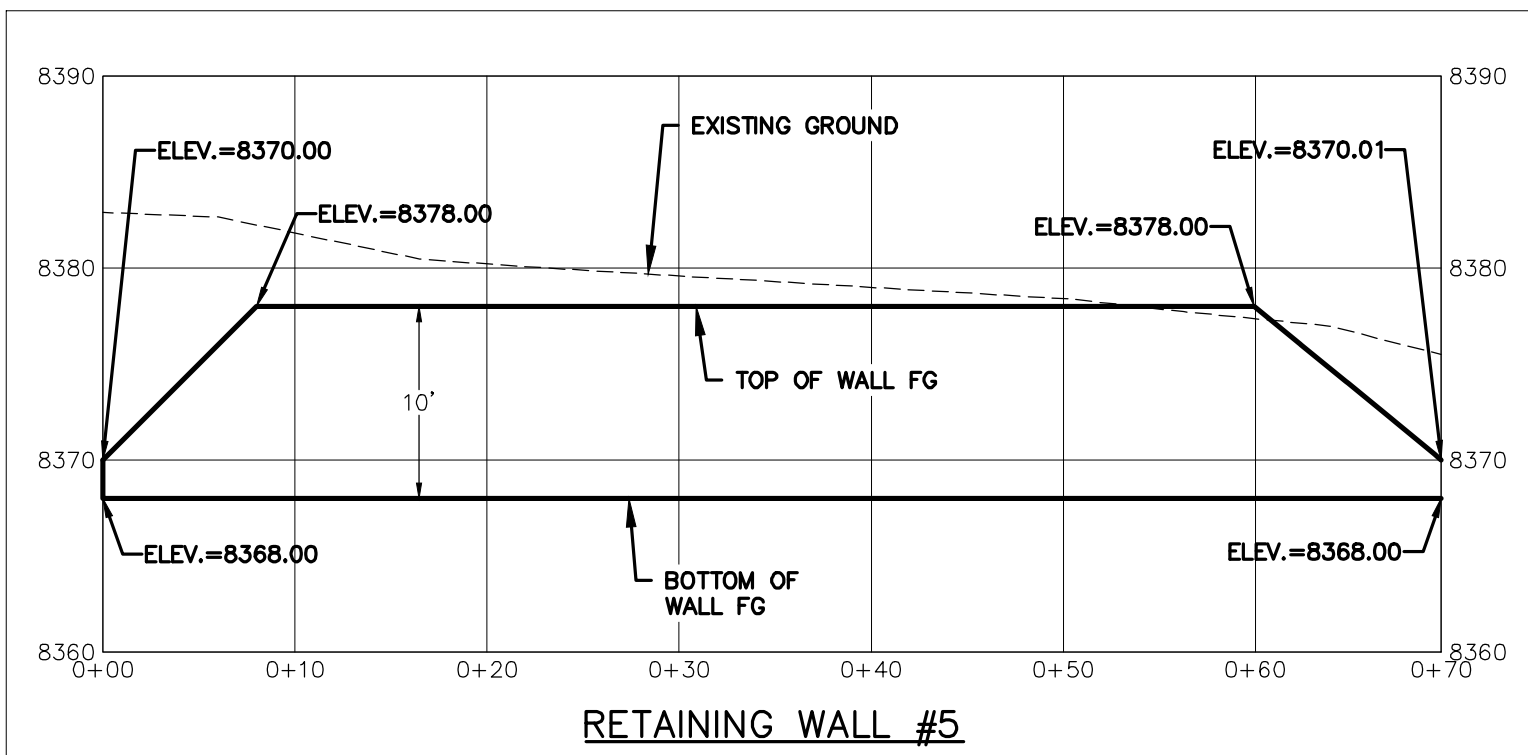
STAFF:
 MICHAEL DEMKOWICZ
 CONNOR DINSMORE
DATE: 07/13/2022

BUILDING PERMIT SET
CONDO RETAINING WALL PLAN & PROFILE
SOMMET BLANC DEVELOPMENT
FOR: SOMMET BLANC RESIDENCES I, LLC
JOB NO.: 1-11-18
FILE: X:\Empire\dwg\B2 East Design\B2 East-Civil.dwg

SHEET
C.10



NOTE:
1. BOTTOM OF WALL GRADING TO BE SMOOTH 2:1 OR 1:1 GRADING. REFER TO GRADING PLAN SHEET.
2. DASHED LINE ON PROFILES TO REPRESENT SMOOTH BOTTOM OF WALL GRADING.

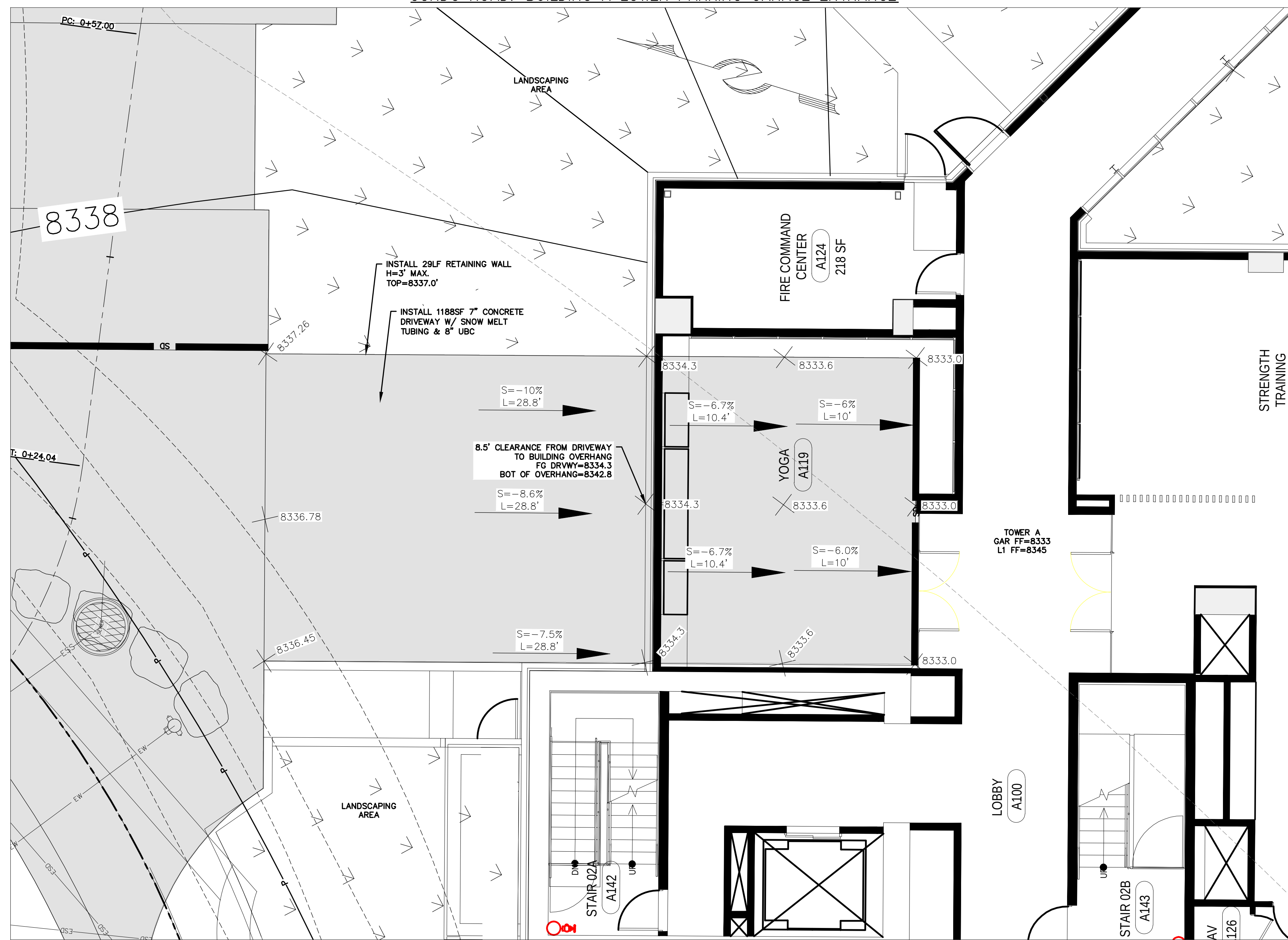


STAFF:
MICHAEL DEMKOWICZ
CONNOR DINSMORE
DATE: 07/13/2022

BUILDING PERMIT SET
RETAINING WALL PLAN & PROFILE
SOMMET BLANC DEVELOPMENT
FOR: SOMMET BLANC RESIDENCES I, LLC
JOB NO.: 1-11-18
FILE: X:\Empire\dwg\B2 East Design\B2 East-Civil.dwg

SHEET
C.11

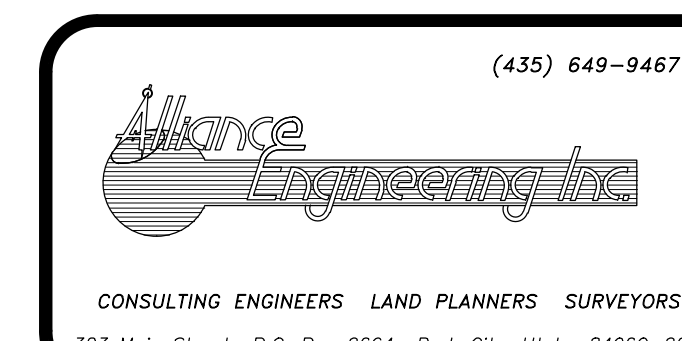
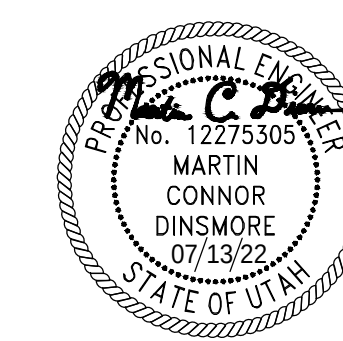
CONDO ROAD: BUILDING A LOWER PARKING GARAGE ENTRANCE



CONDO ROAD: BUILDING B UPPER PARKING GARAGE ENTRANCE



CONDO ROAD: PLAZA ENTRANCE

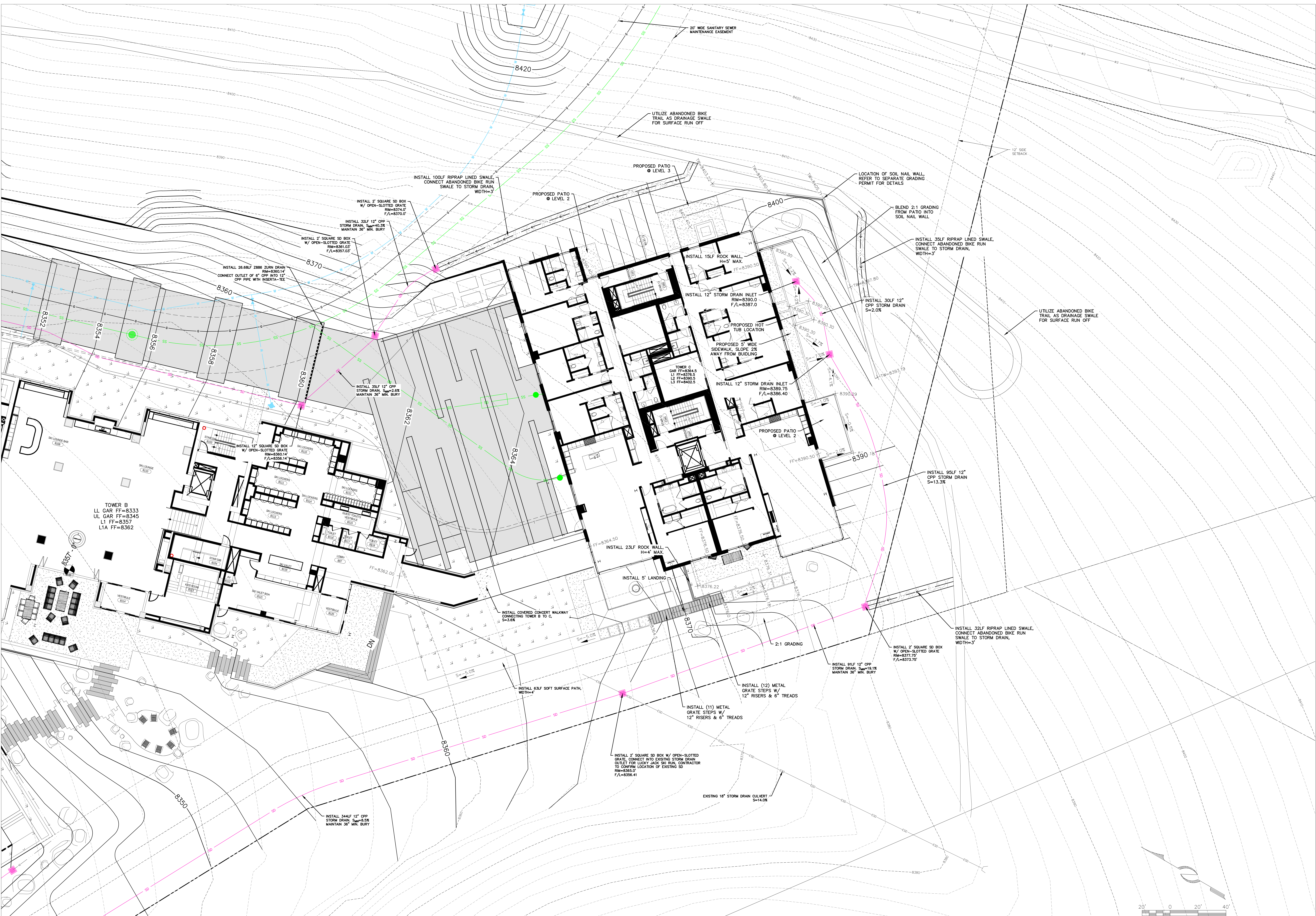


STAFF:
MICHAEL DEMKOWICZ
CONNOR DINSMORE

DATE: 07/13/2022

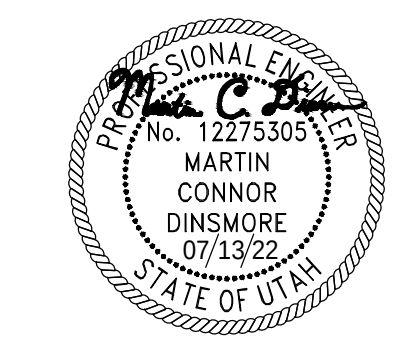
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SOMMET BLANC DEVELOPMENT
FOR: SOMMET BLANC RESIDENCES I, LLC
JOB NO.: 1-11-18
FILE: X:\Empire\dwg\B2 East Design\B2 East-Civil.dwg

SHEET
C.12



LINE TYPE LEGEND

---	EXISTING SEWER	---	EXISTING FENCE
---	EXISTING WATER	---	EXISTING GAS
---	EXISTING STORM DRAIN	---	EXISTING TELECOMM
---	EXISTING OVERHEAD UTILITY	---	EXISTING POWER
---	EXISTING FIBER OPTIC	---	EXISTING OVERHEAD POWER

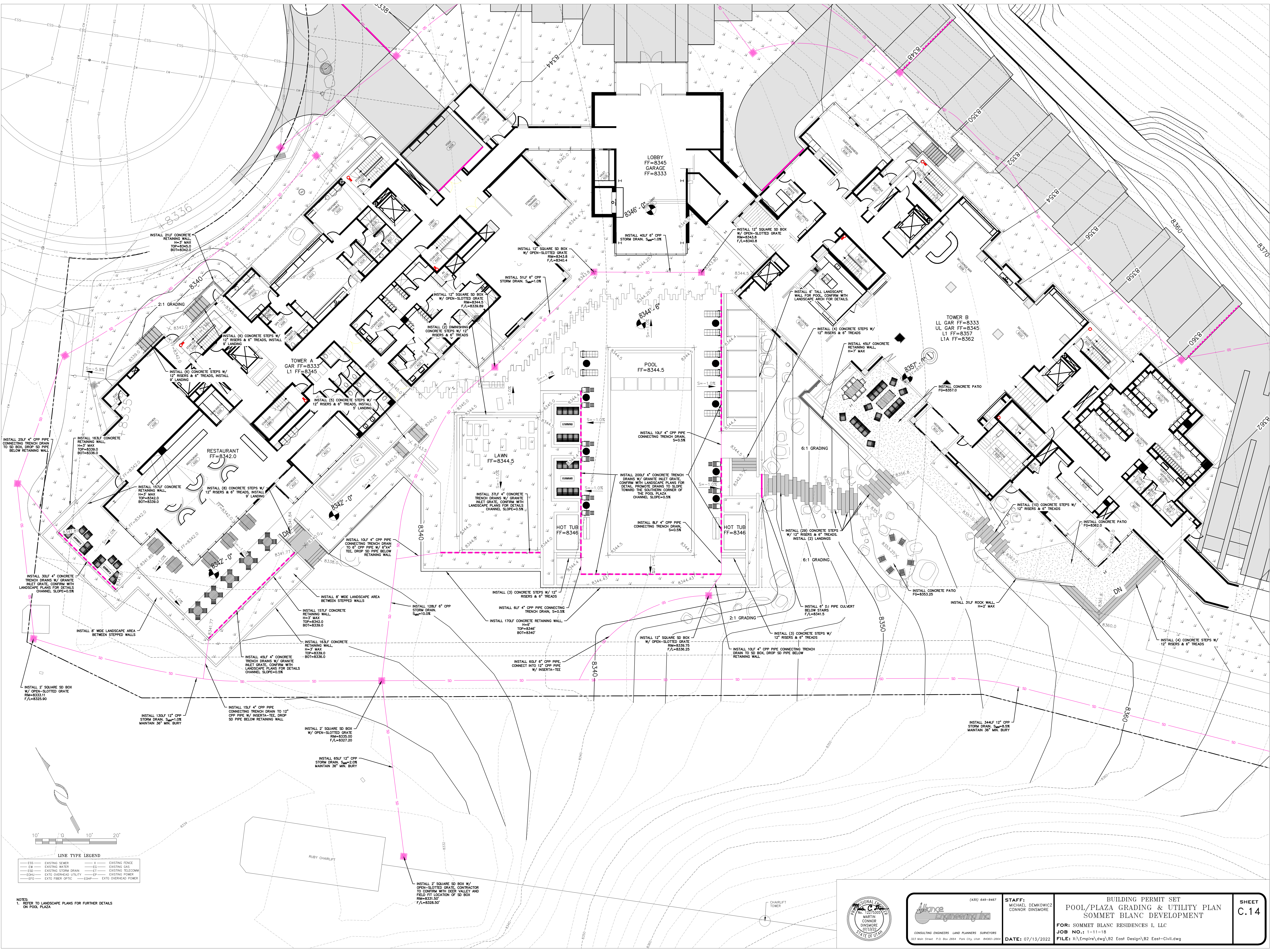


ALLIANCE
CONSULTING ENGINEERS LAND PLANNERS SURVEYORS
123 Main Street P.O. Box 2004 Park City, Utah 84060-2004
(435) 649-9467

STAFF:
MICHAEL DEMKOWICZ
CONNOR DINSCHIRE

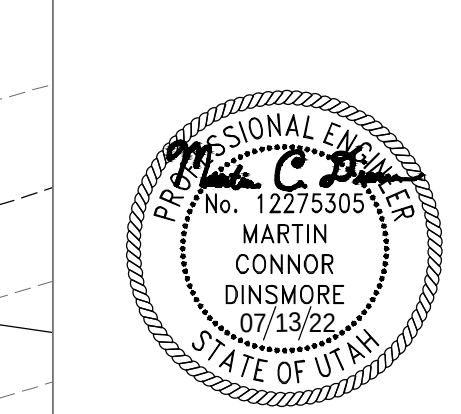
**BUILDING PERMIT SET
TOWER C GRADING PLAN
SOMMET BLANC DEVELOPMENT**
FOR: SOMMET BLANC RESIDENCES I, LLC
JOB NO.: 1-11-18
DATE: 07/13/2022
FILE: X:\Empire\dwg\B2 East Design\B2 East-Civil.dwg

**SHEET
C.13**



NOTES:
1. REFER TO LANDSCAPE PLANS FOR FURTHER DETAILS ON POOL PLAZA

LINE TYPE LEGEND			
ESS	EXISTING SEWER	EF	EXISTING FENCE
EW	EXISTING WATER	EG	EXISTING GAS
ESD	EXISTING STORM DRAIN	ET	EXISTING TELECOMM
EOUW	EXTD OVERHEAD UTILITY	EP	EXISTING POWER
EFO	EXTD FIBER OPTIC	EOUW	EXTD OVERHEAD POWER



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CONSULTING ENGINEERS LAND PLANNERS SURVEYORS

323 Main Street P.O. Box 2654 Park City, Utah 84060-2654

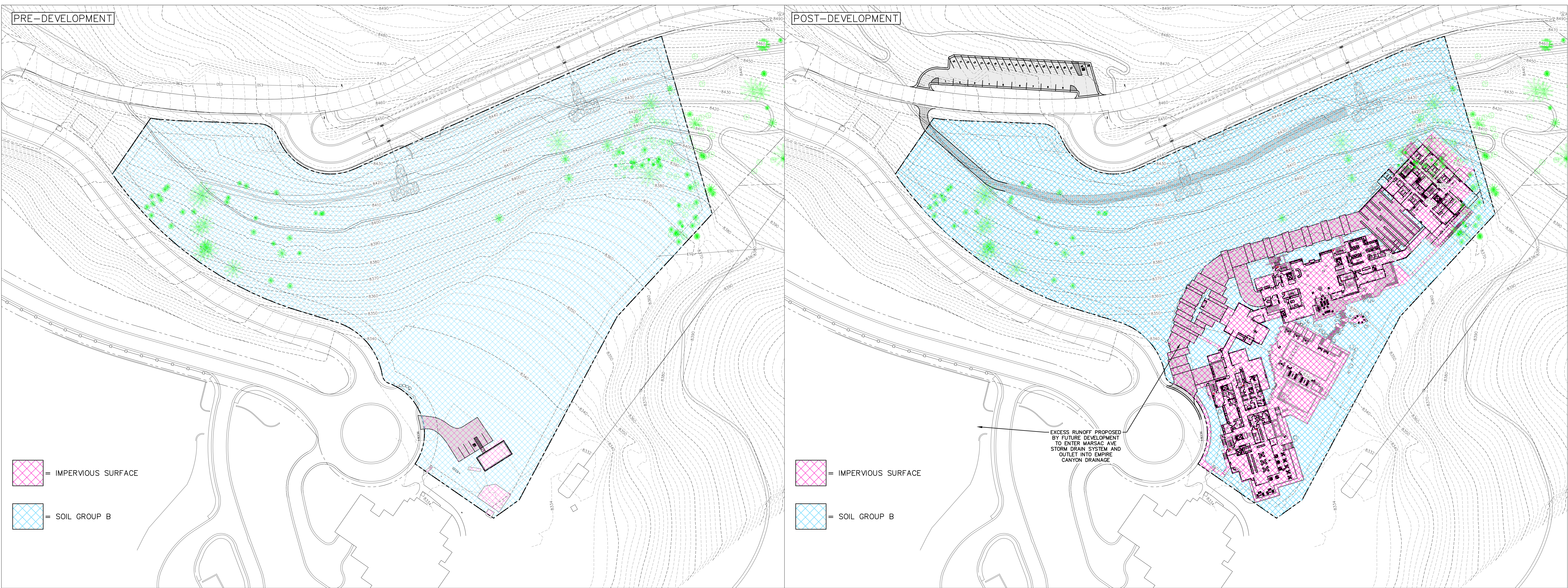
STAFF:
MICHAEL DEMKOWICZ
CONNOR DINSMORE

DATE: 07/13/2022

BUILDING PERMIT SET
POOL/PLAZA GRADING & UTILITY PLAN
SOMMET BLANC DEVELOPMENT

FOR: SOMMET BLANC RESIDENCES I, LLC
JOB NO.: 1-11-18
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SHEET
C.14

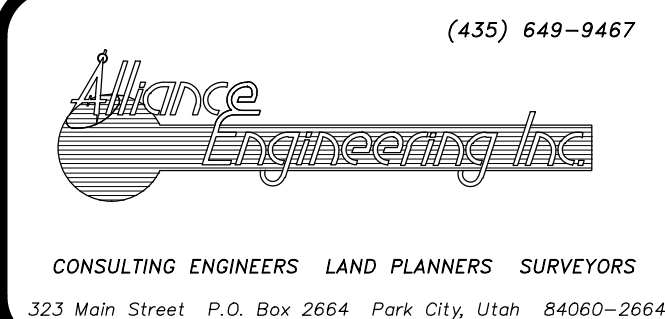
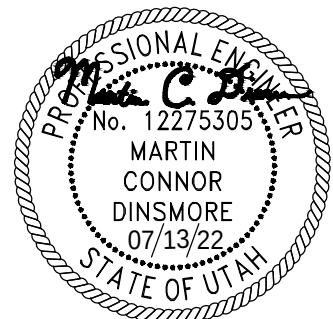
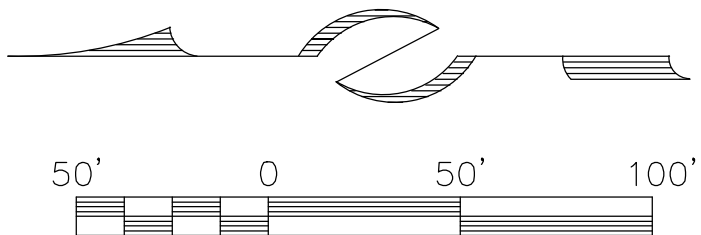


WATER QUALITY VOLUME CALCULATIONS																																																																									
ASSUMPTIONS		PRE-DEVELOPMENT WATER QUALITY VOLUME			GROUNDWATER RECHARGE VOLUME																																																																				
METHOD OF ANALYSIS: $WQ_v=CIT_A$ DESIGN STORM: 90TH PERCENTILE EVENT NOTE: INTENSITY = 0.60 IN/HR PER SUMMIT COUNTY MSA.		AREAS FOR WEIGHT AVERAGE "C":			$\Delta WQ_v = 376,831 \text{ CU FT}$																																																																				
VARIABLES		<table><tr><th rowspan="2">SLOPE</th><th colspan="4">HYDROLOGIC SOIL GROUP</th></tr><tr><th>A</th><th>B</th><th>C</th><th>D</th></tr><tr><td>FLAT (0-2%)</td><td></td><td></td><td></td><td></td></tr><tr><td>AVERAGE (2-6%)</td><td></td><td></td><td></td><td></td></tr><tr><td>STEEP (>6%)</td><td></td><td>294,689</td><td></td><td></td></tr><tr><td>SURFACING</td><td colspan="2">PERVIOUS</td><td colspan="2">IMPERVIOUS</td></tr><tr><td>HARDSCAPE</td><td colspan="2"></td><td colspan="2">6,168</td></tr></table> $A = 300,858 \text{ FT}^2$ $C = 0.22$ $I = 0.26 \text{ FT/HR}$ $t = 24.00 \text{ HR}$ $\Delta WQ_v = 423,117 \text{ CU FT}$			SLOPE	HYDROLOGIC SOIL GROUP				A	B	C	D	FLAT (0-2%)					AVERAGE (2-6%)					STEEP (>6%)		294,689			SURFACING	PERVIOUS		IMPERVIOUS		HARDSCAPE			6,168																																				
SLOPE	HYDROLOGIC SOIL GROUP																																																																								
	A	B	C	D																																																																					
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AVERAGE (2-6%)																																																																									
STEEP (>6%)		294,689																																																																							
SURFACING	PERVIOUS		IMPERVIOUS																																																																						
HARDSCAPE			6,168																																																																						
Q = RUNOFF FLOWRATE [CUBIC FEET/SEC] C = RUNOFF COEFFICIENT (WEIGHT AVERAGE BY SOIL GROUP AND AREA TYPE) RUNOFF COEFFICIENTS "C":		POST-DEVELOPMENT WATER QUALITY VOLUME																																																																							
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ASSUMPTIONS		PRE-DEVELOPMENT PEAK DISCHARGE			EXCESS RUNOFF STORAGE VOLUME																																																																					
METHOD OF ANALYSIS: RATIONAL METHOD Q=CIA STORM RETURN PERIOD: 100 YEARS NOTE: FOR THE 100 YR RECURRENCE INTERVAL, THE COMPOSITE "C" VALUE IS ADJUSTED BY A FACTOR OF 1.25 BEFORE COMPUTING Q. STORM DURATION: 24 Hour. SOURCE: NOAA ATLAS 14 - PARK CITY RADIO STATION 42-6648		AREAS FOR WEIGHT AVERAGE "C": <table><tr><th rowspan="2">SLOPE</th><th colspan="4">HYDROLOGIC SOIL GROUP</th></tr><tr><th>A</th><th>B</th><th>C</th><th>D</th></tr><tr><td>FLAT (0-2%)</td><td>-</td><td>-</td><td>-</td><td>-</td></tr><tr><td>AVERAGE (2-6%)</td><td>-</td><td>-</td><td>-</td><td>-</td></tr><tr><td>STEEP (>6%)</td><td>-</td><td>-</td><td>6.77</td><td>-</td></tr><tr><td>SURFACING</td><td colspan="2">PERVIOUS</td><td colspan="2">IMPERVIOUS</td></tr><tr><td>HARDSCAPE</td><td colspan="2"></td><td colspan="2">0.14</td></tr></table> A= 6.91 ACRES C= 0.22 C _{ADJ} = 0.28 I= 0.13 IN/HR Q= 0.25 CFS			SLOPE	HYDROLOGIC SOIL GROUP				A	B	C	D	FLAT (0-2%)	-	-	-	-	AVERAGE (2-6%)	-	-	-	-	STEEP (>6%)	-	-	6.77	-	SURFACING	PERVIOUS		IMPERVIOUS		HARDSCAPE			0.14		ΔQ= 0.23 CFS t= 86,400 SEC. V= 19,551 CU FT																																			
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THE EXISTING DETENTION POND IN EMPIRE CANYON, SOUTH OF DALY AVENUE, WAS DESIGNED TO ACCOMODATE INCREASE IN STORMWATER FOR THE ENTIRE EMPIRE PASS DEVELOPMENT. THE DETENTION POND WAS CONSTRUCTED IN THE MID 2000'S. THE POND RECEIVES STORMWATER RUNOFF FROM THE ROCK-LINED STREAM CHANNEL SOUTH OF THE DETENTION POND AS WELL AS A PIPING SYSTEM ALONG THE EXISTING DIRT ROAD FROM EMPIRE CANYON TO THE ONTARIO MINE.

THE EMPIRE PASS MASTER DETENTION POND HAS OUTLET CONTROL STRUCTURES DESIGNED TO RETAIN THE 2 YEAR 24 HOUR STORM FOR WATER QUALITY REQUIREMENTS AND TO DETAIN THE 50 AND 100 YEAR STORM EVENTS WITH OUTFLOW AT PRE-DEVELOPMENT RATES. THE 19,551 CU FT OF EXCESS RUNOFF PRODUCED BY THE SOMMET BLANC DEVELOPMENT WILL BE FULL DETAINED IN THE EMPIRE CANYON DETENTION POND.

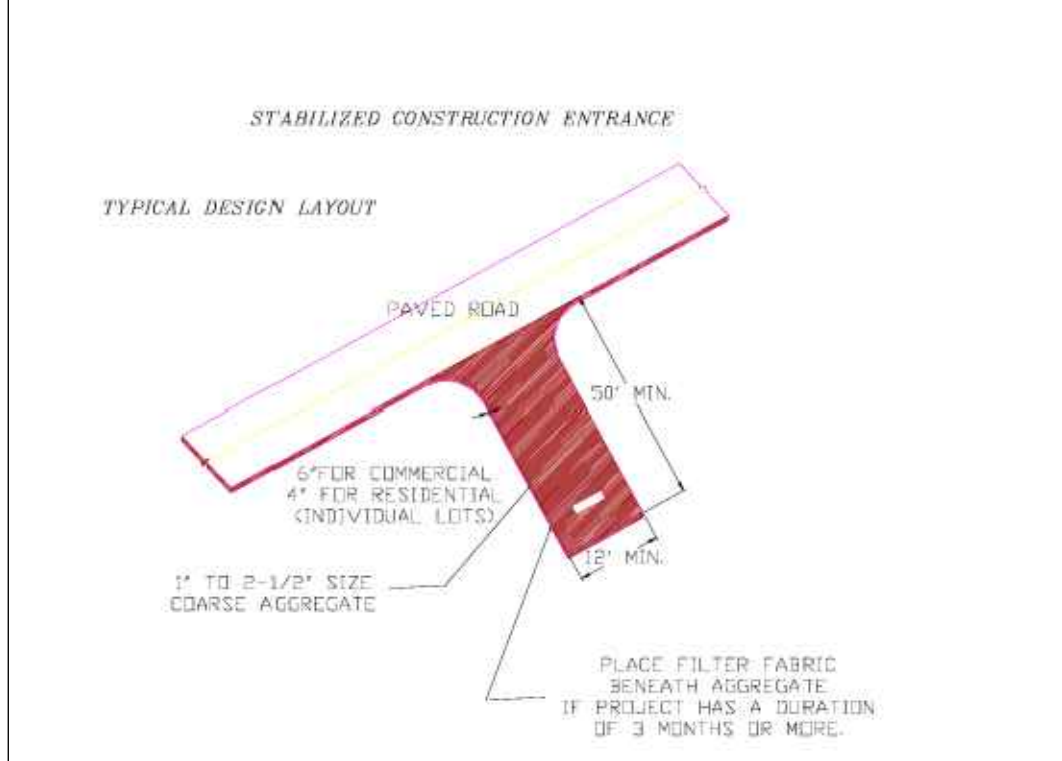
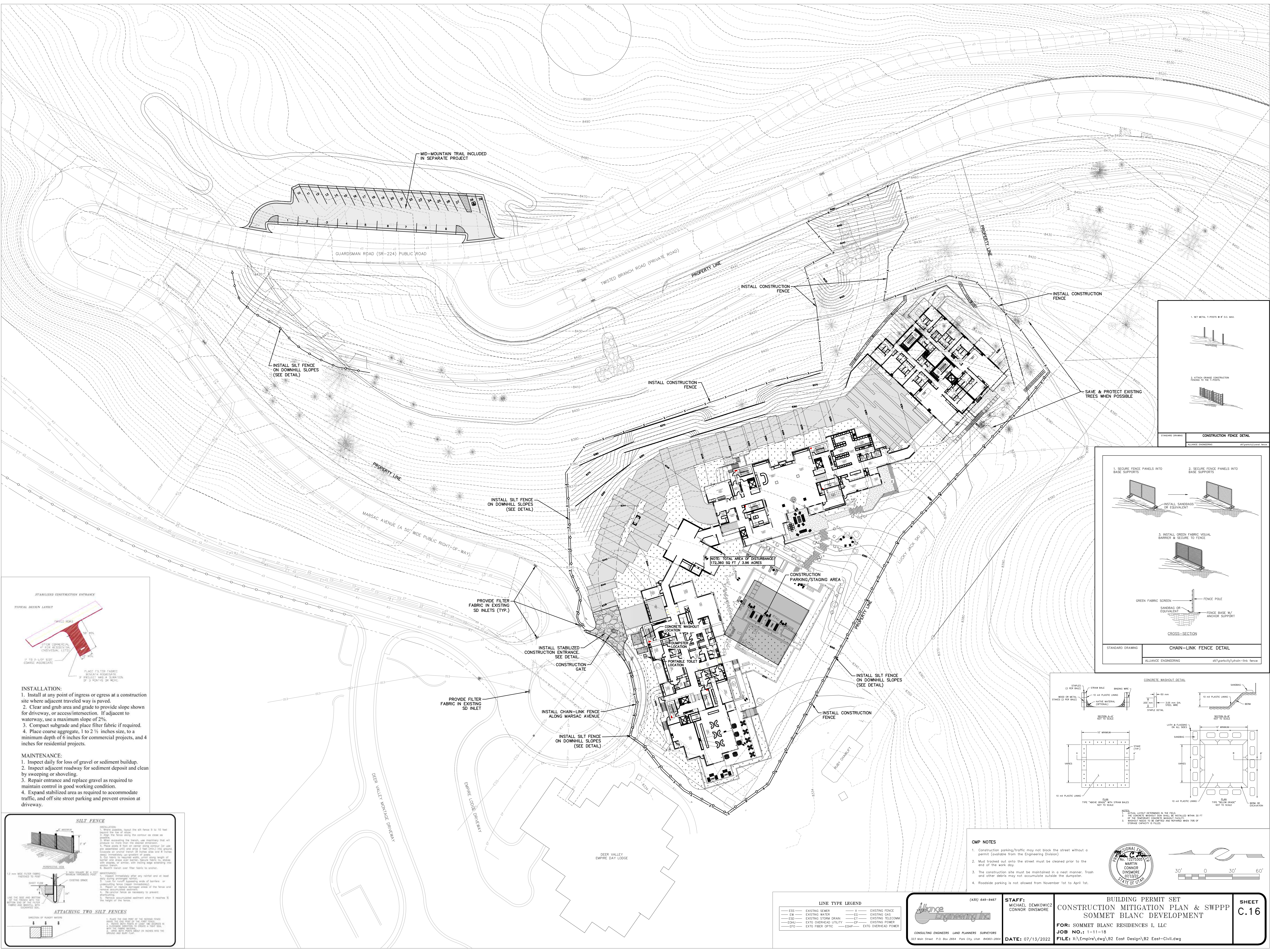


STAFF:
MICHAEL DEMKOWICZ
CONNOR DINSMORE

BUILDING PERMIT SET
STORMWATER CALCULATIONS
SOMMET BLANC DEVELOPMENT
FOR: SOMMET BLANC RESIDENCES I, LLC
JOB NO.: 1-11-18
FILE: X:\Empire\dwg\B2 East Design\B2 East-Civil.dwg

DATE: 07/13/2022

SHEET
C.15

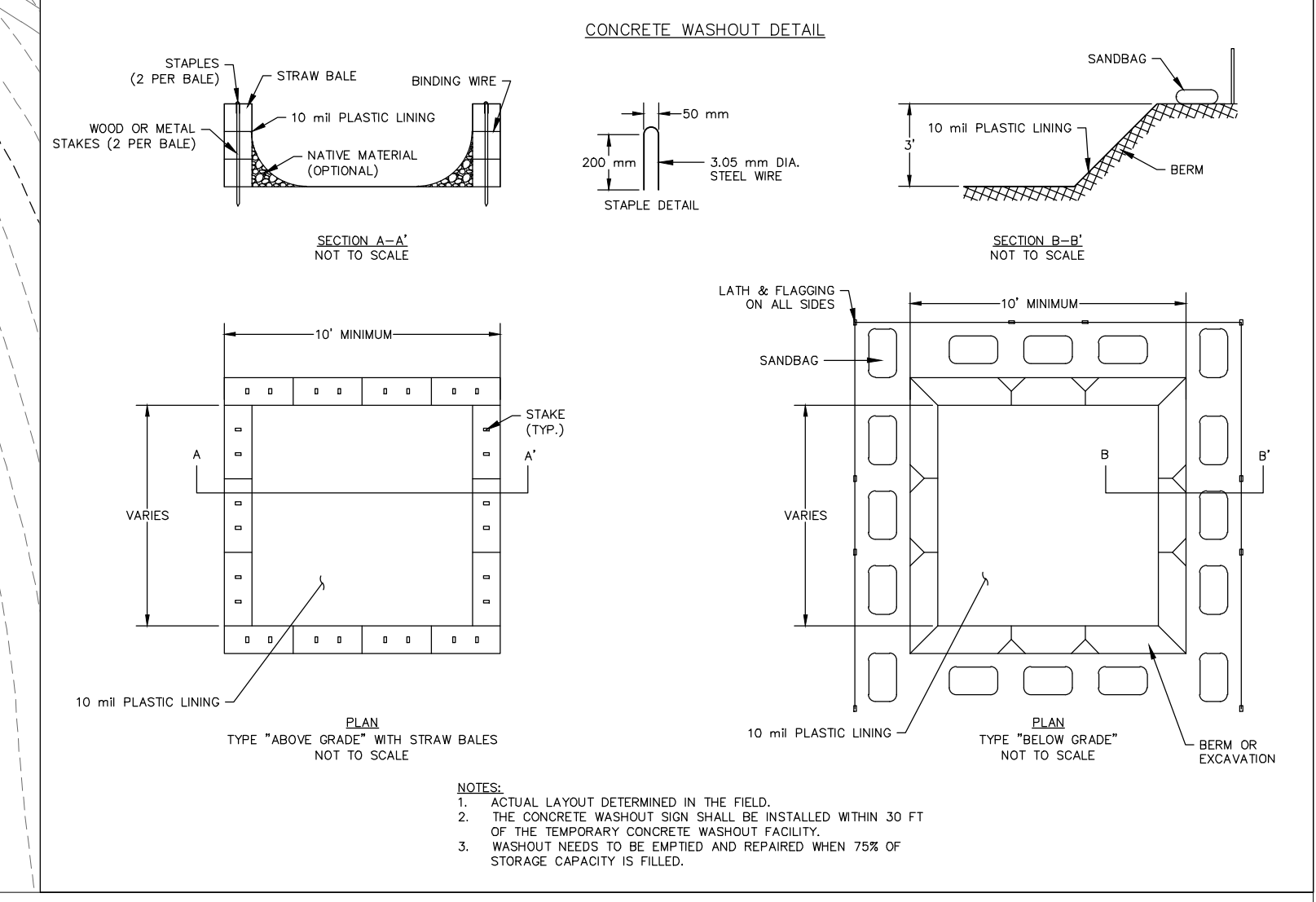
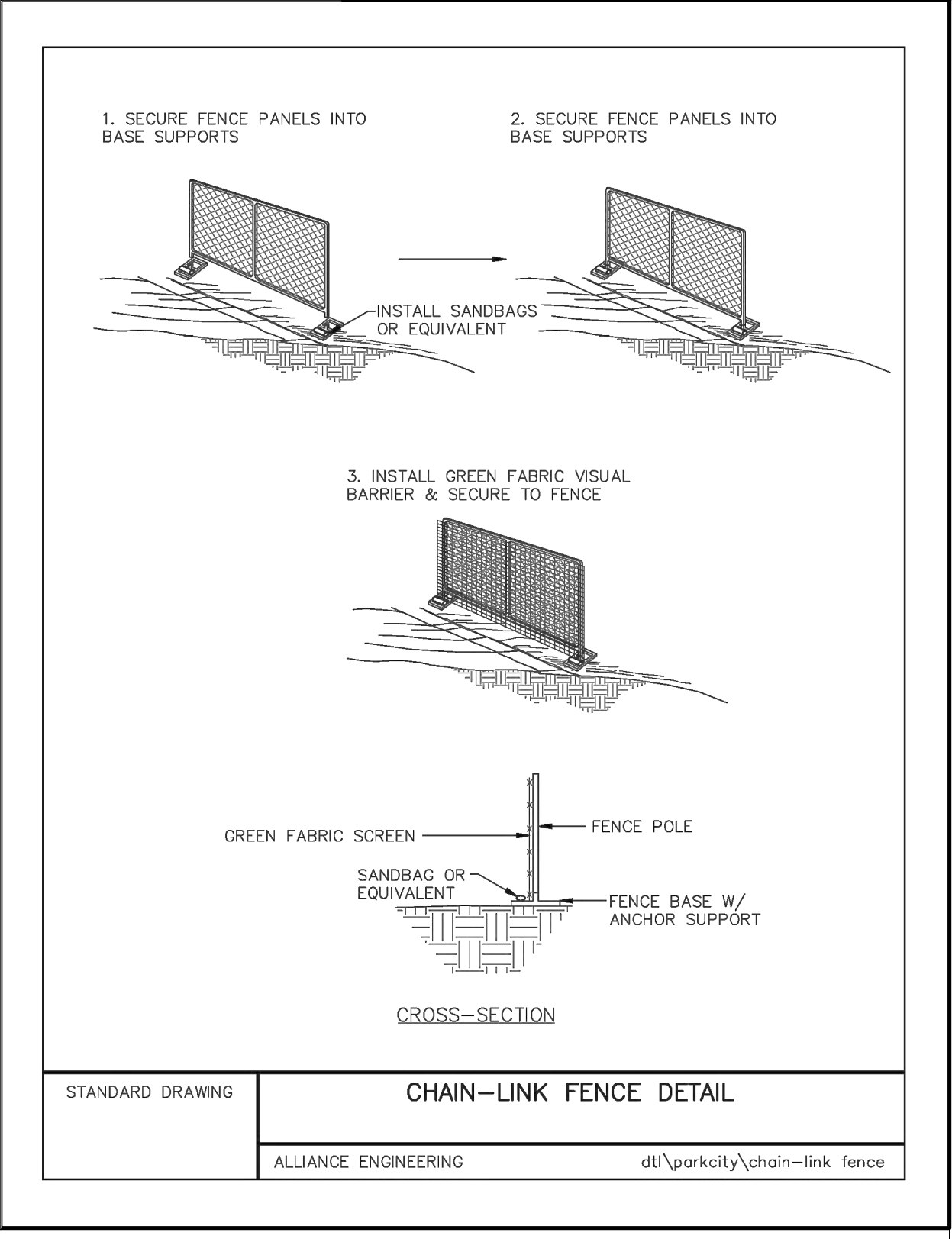
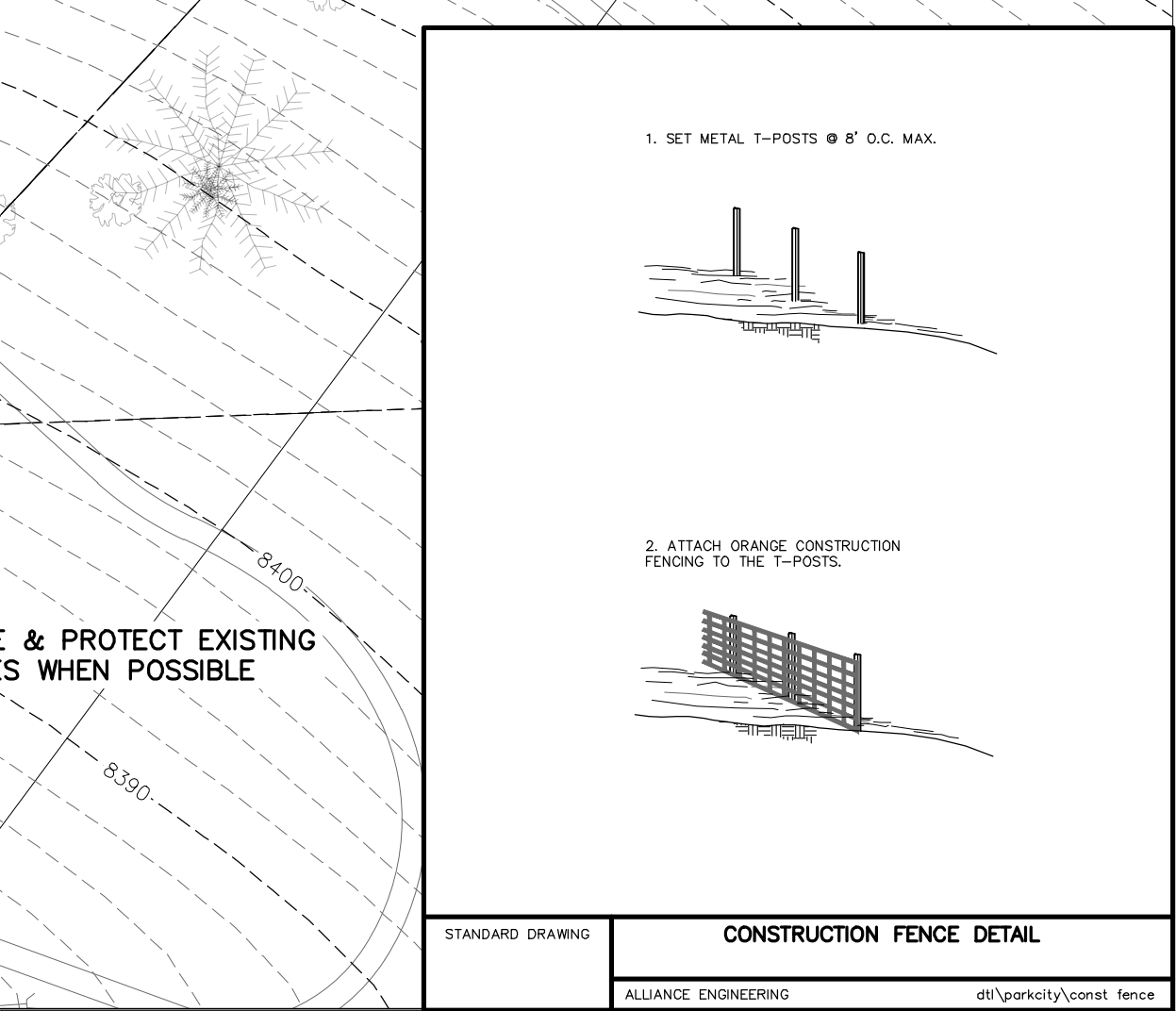
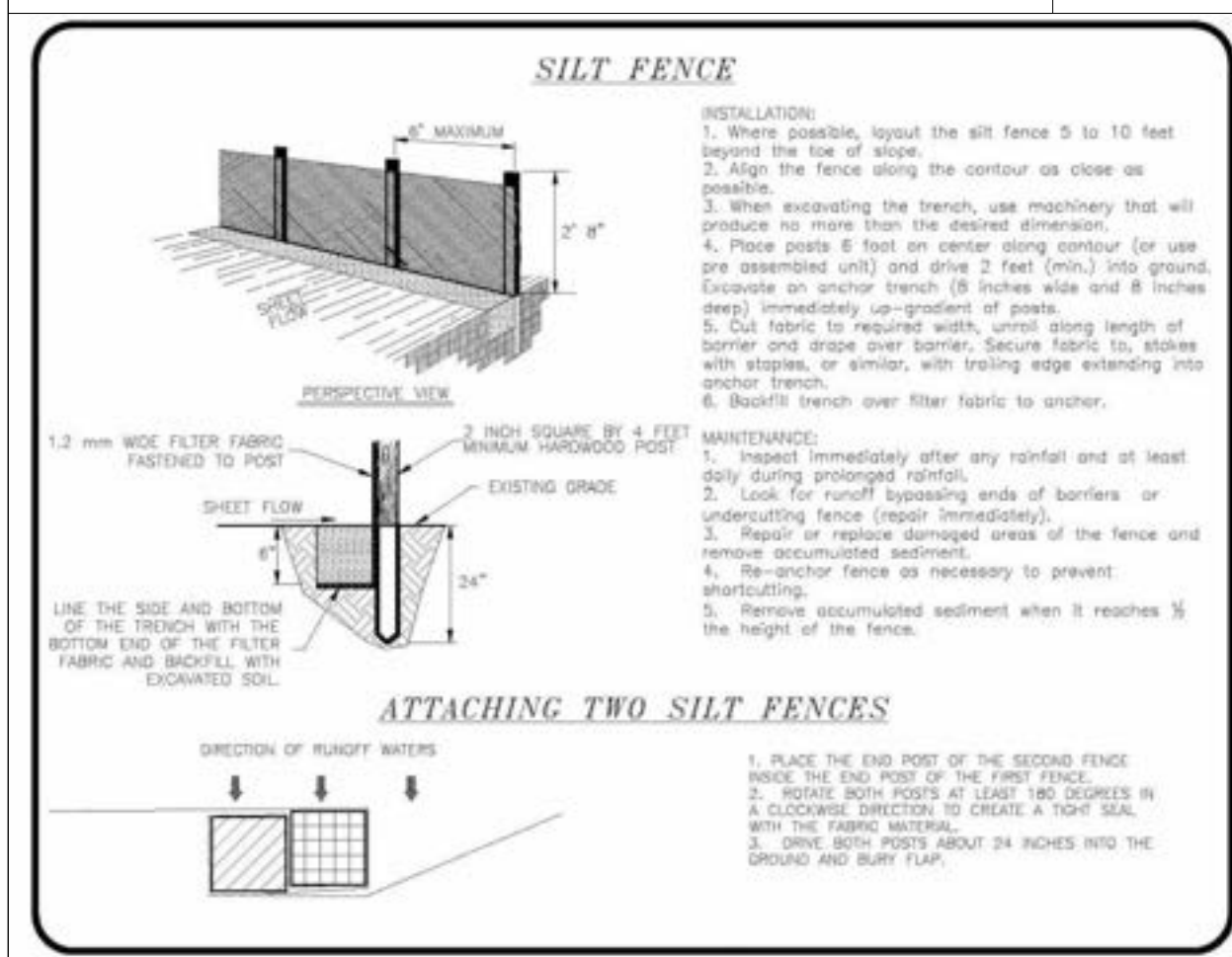


INSTALLATION:

1. Install at any point of ingress or egress at a construction site where adjacent traveled way is paved.
2. Clear and grub area and grade to provide slope shown for driveway, or access/intersection. If adjacent to waterway, use a maximum slope of 2%.
3. Compact subgrade and place filter fabric if required.
4. Place coarse aggregate, 1 to 2 1/2 inches size, to a minimum depth of 6 inches for commercial projects, and 4 inches for residential projects.

MAINTENANCE:

1. Inspect daily for loss of gravel or sediment buildup.
2. Inspect adjacent roadway for sediment deposit and clean by sweeping or shoveling.
3. Repair entrance and replace gravel as required to maintain control in good working condition.
4. Expand stabilized area as required to accommodate traffic, and off site street parking and prevent erosion at driveway.



OMP NOTES

1. Construction parking/traffic may not block the street without a permit (available from the Engineering Division).
2. Mud tracked out onto the street must be cleaned prior to the end of the work day.
3. The construction site must be maintained in a neat manner. Trash and other debris may not accumulate outside the dumpster.
4. Roadside parking is not allowed from November 1st to April 1st.

LINE TYPE LEGEND

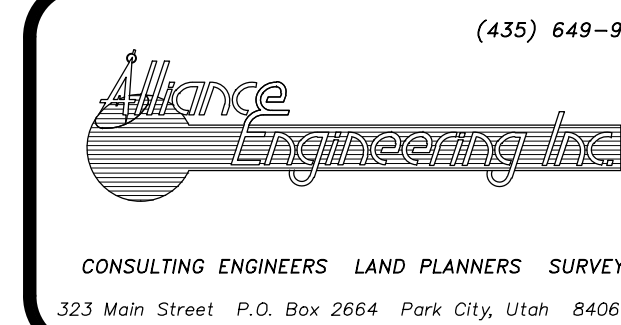
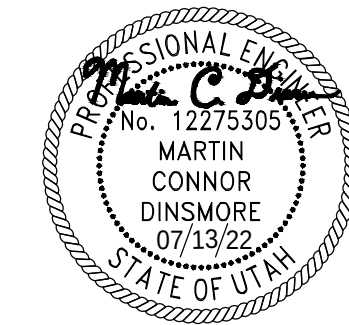
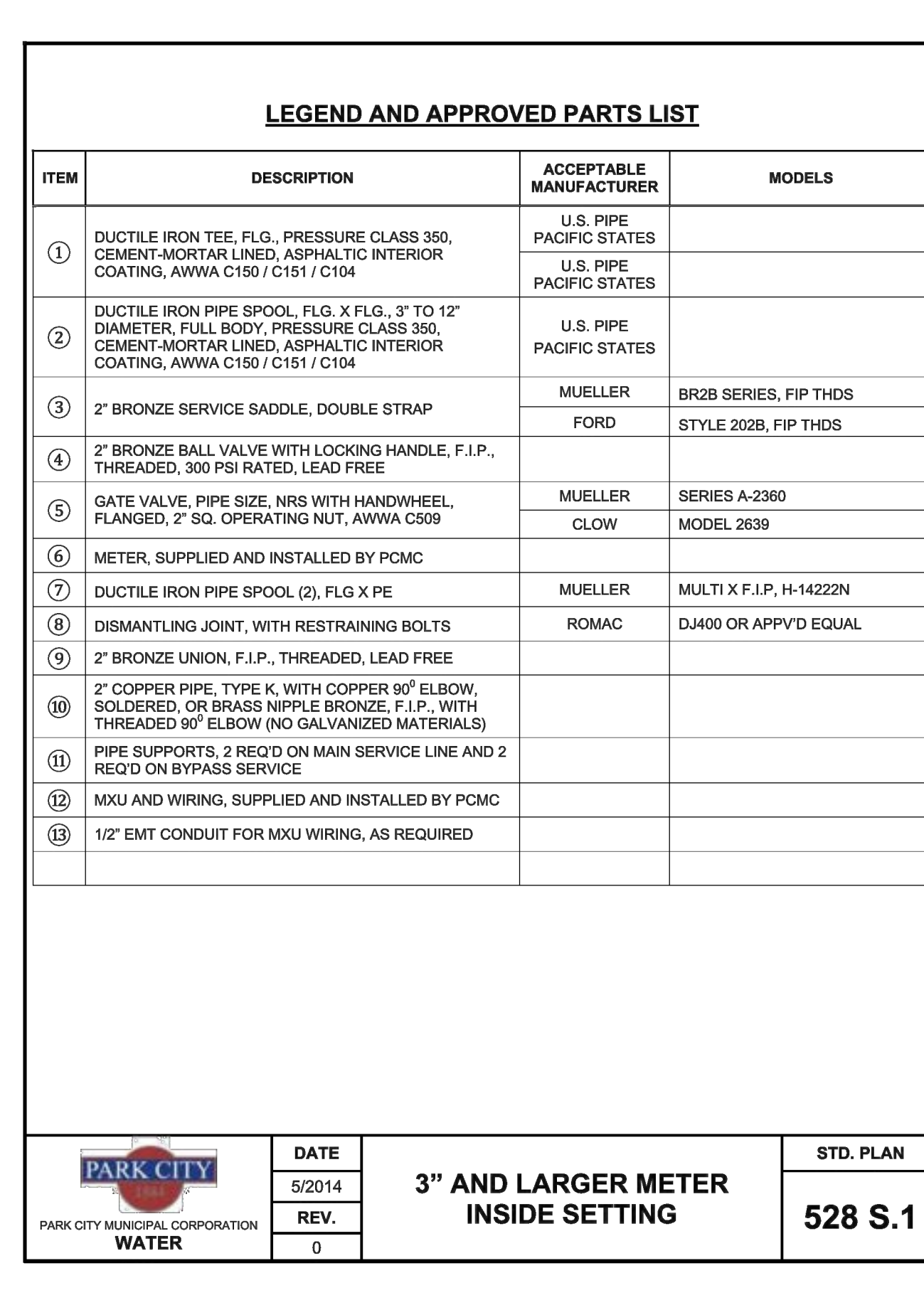
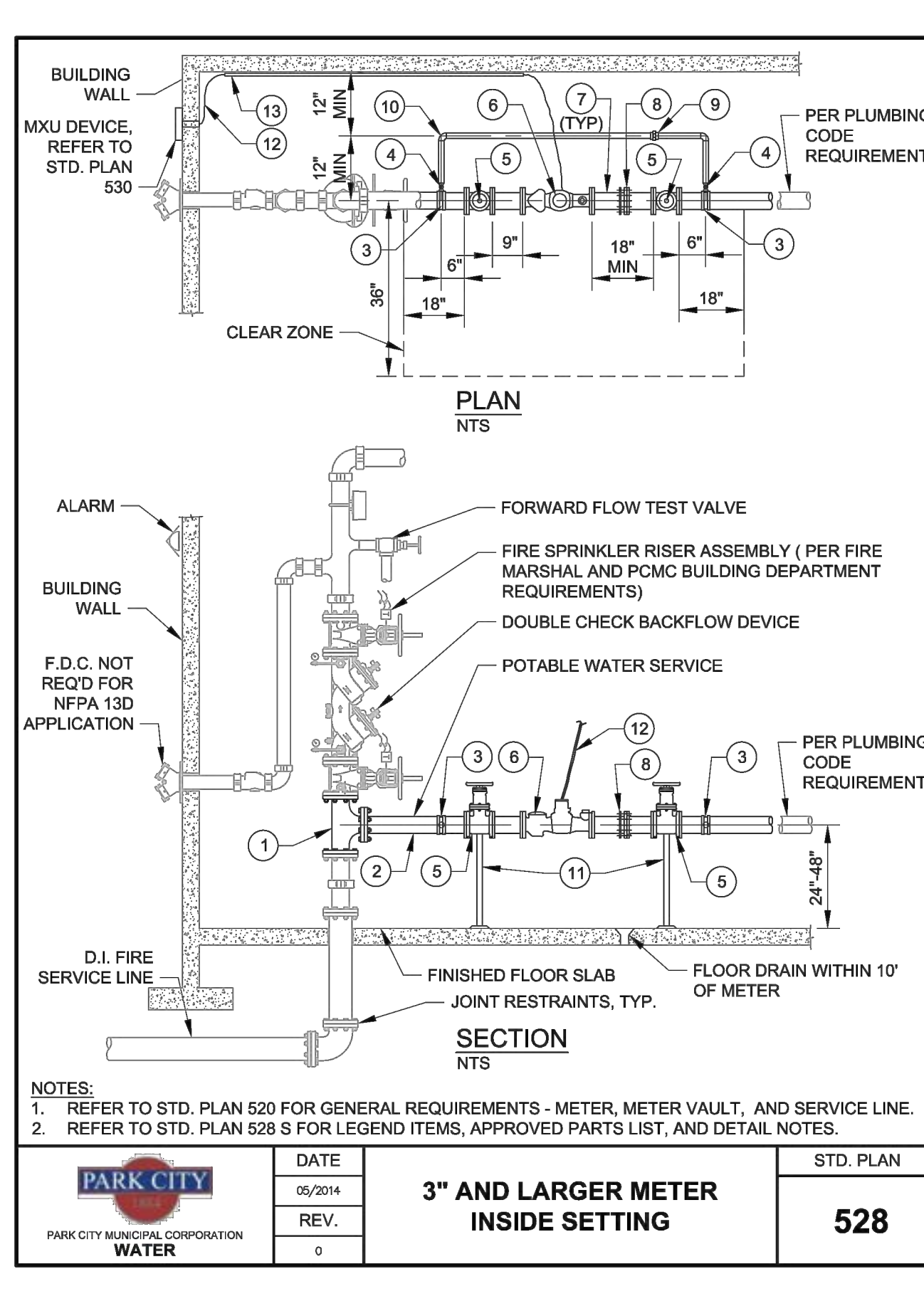
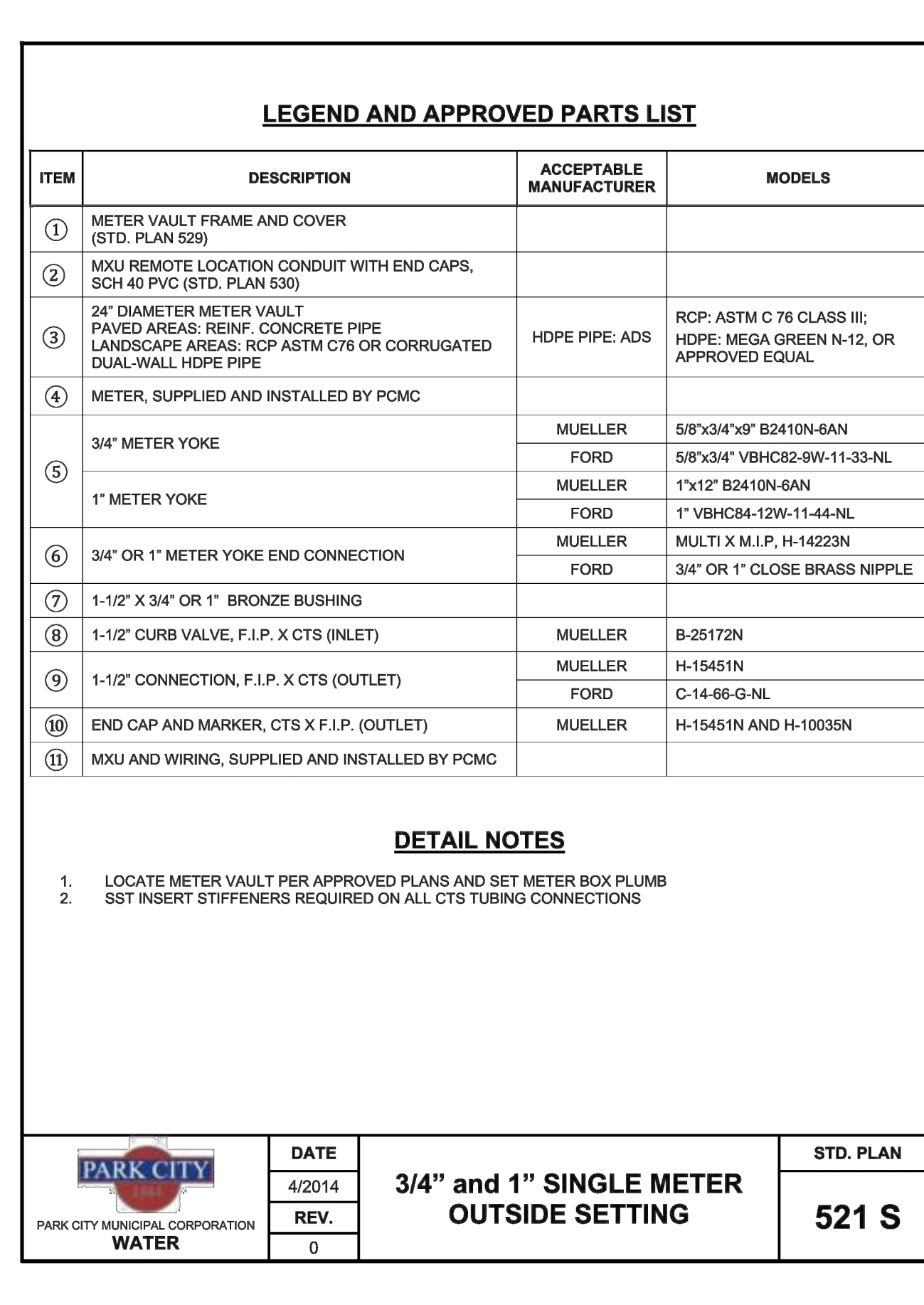
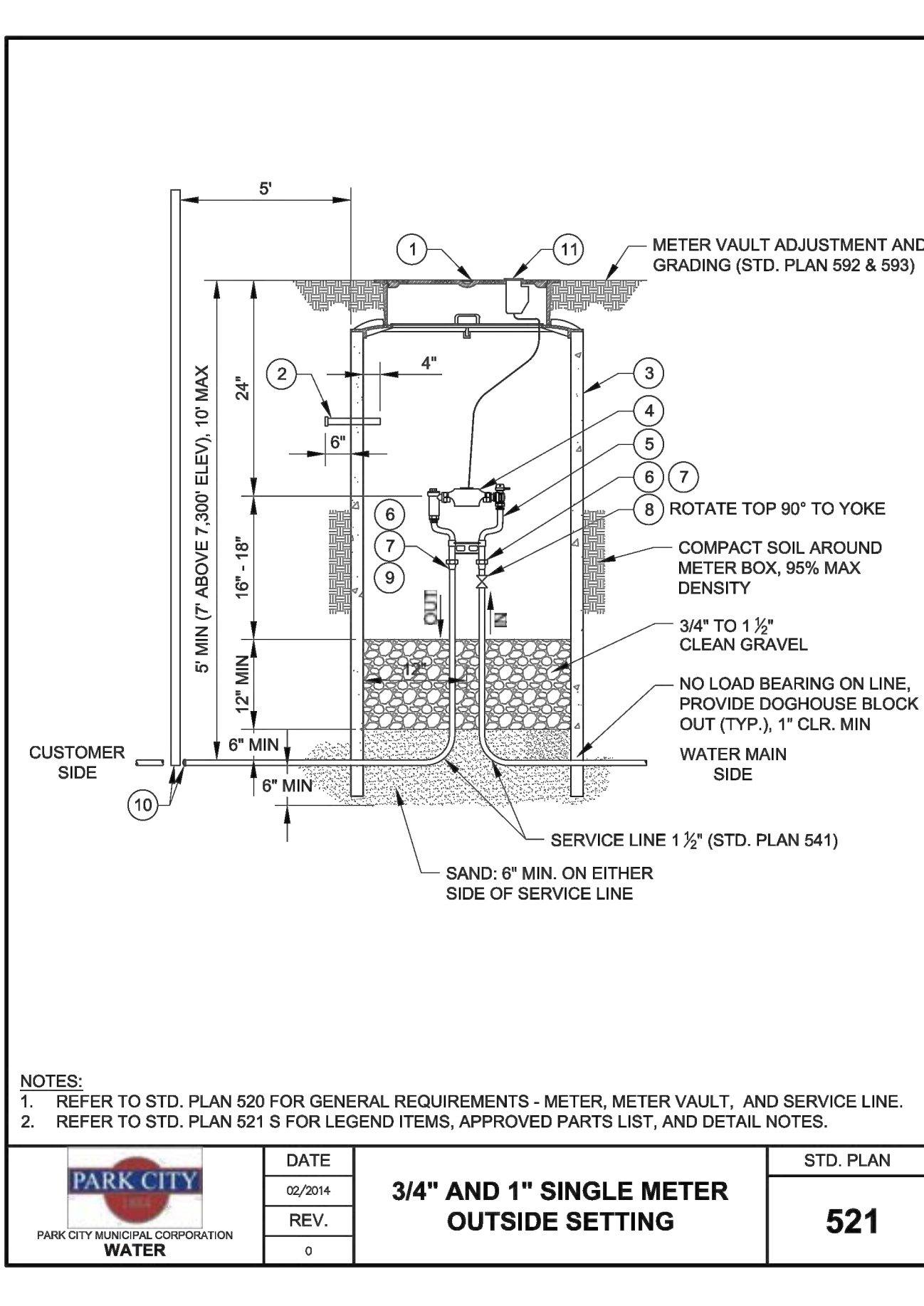
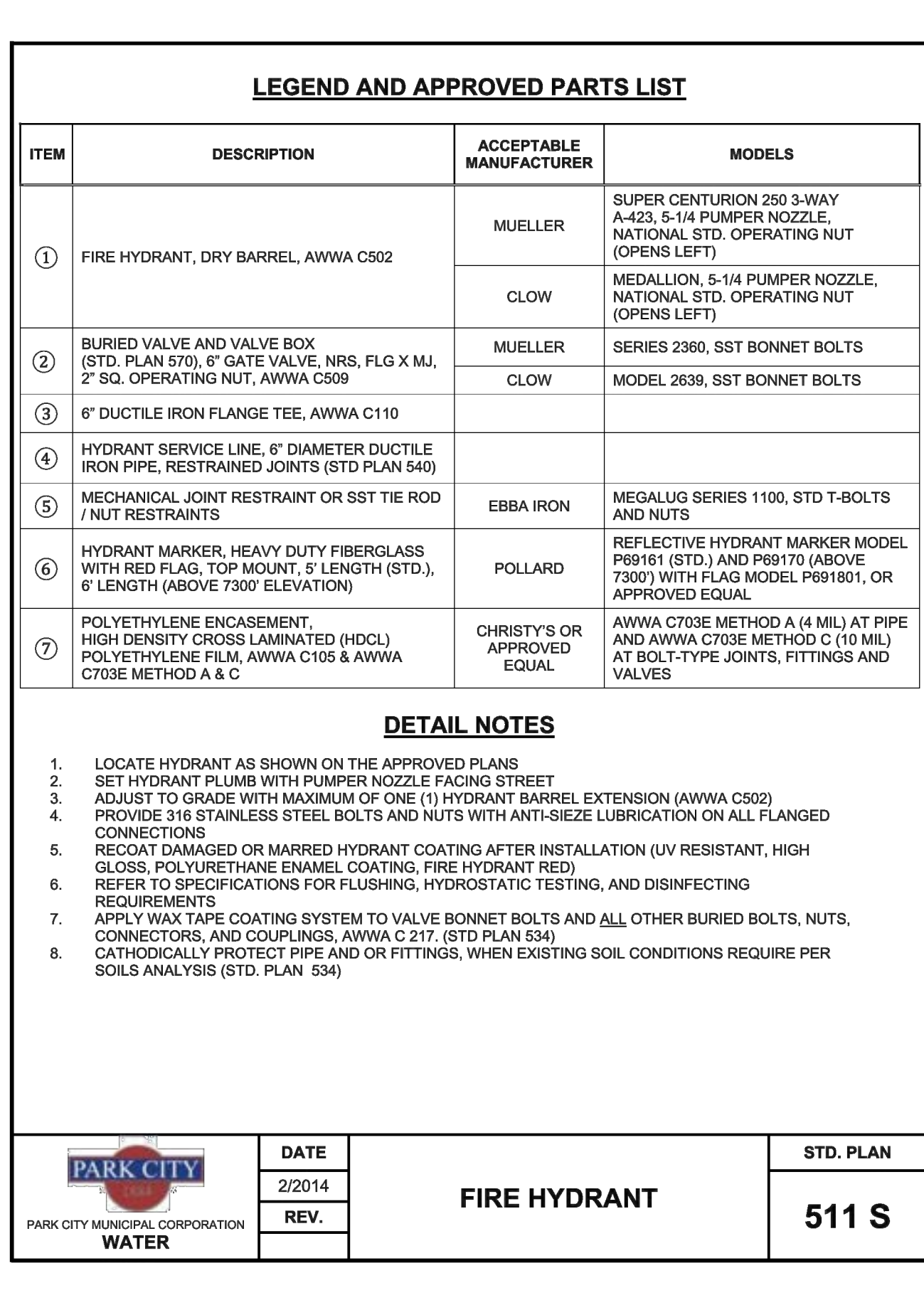
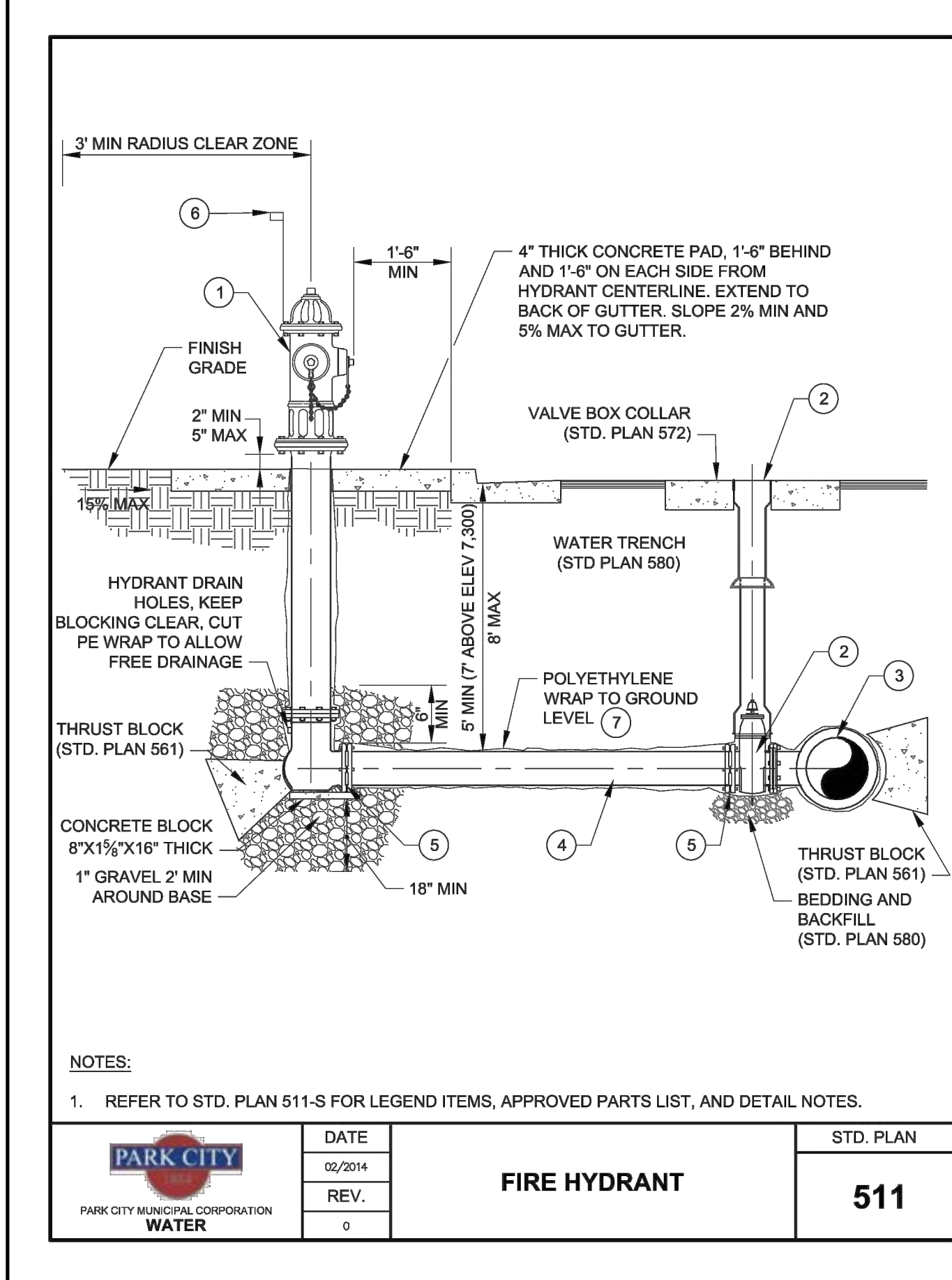
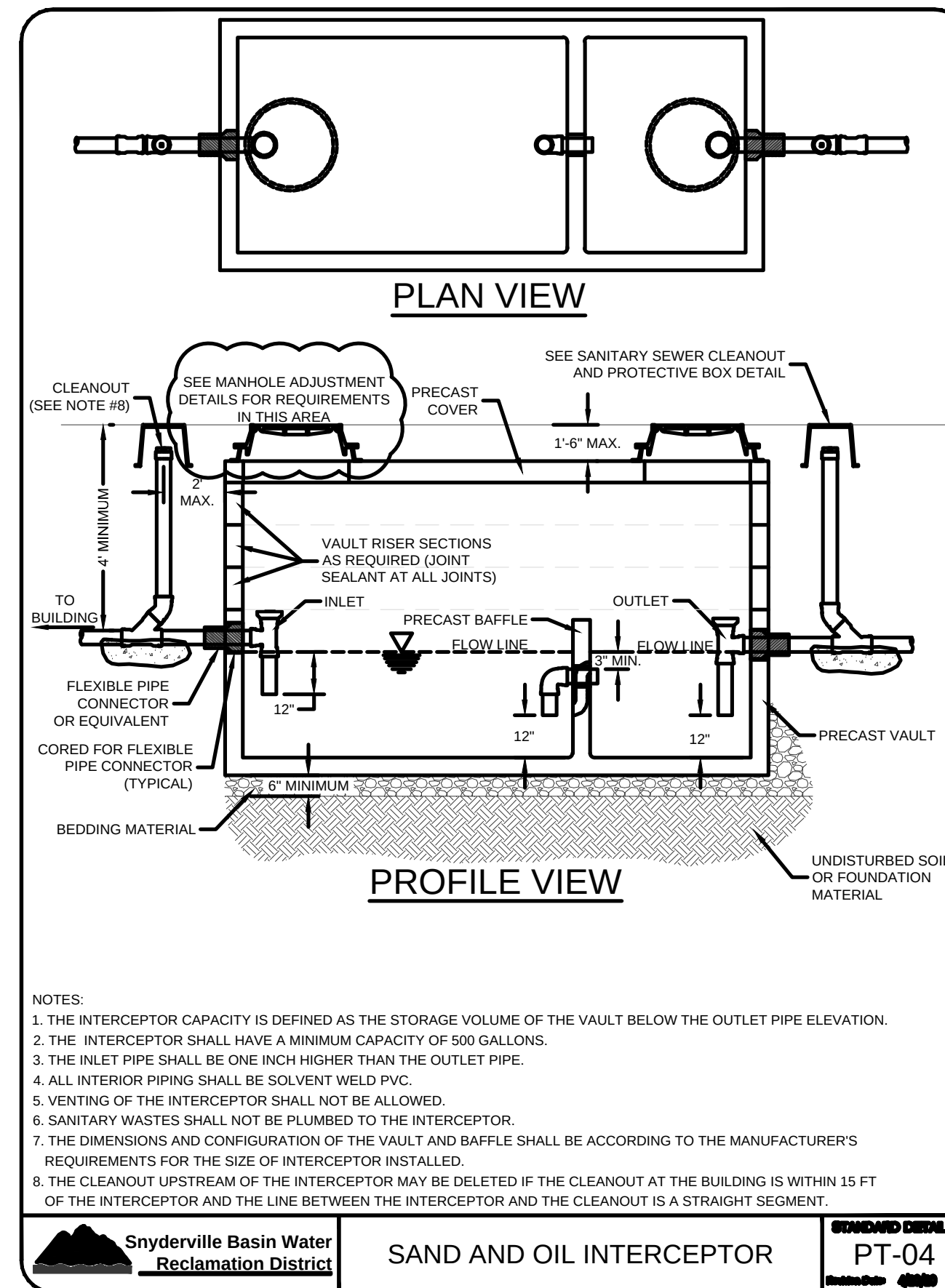
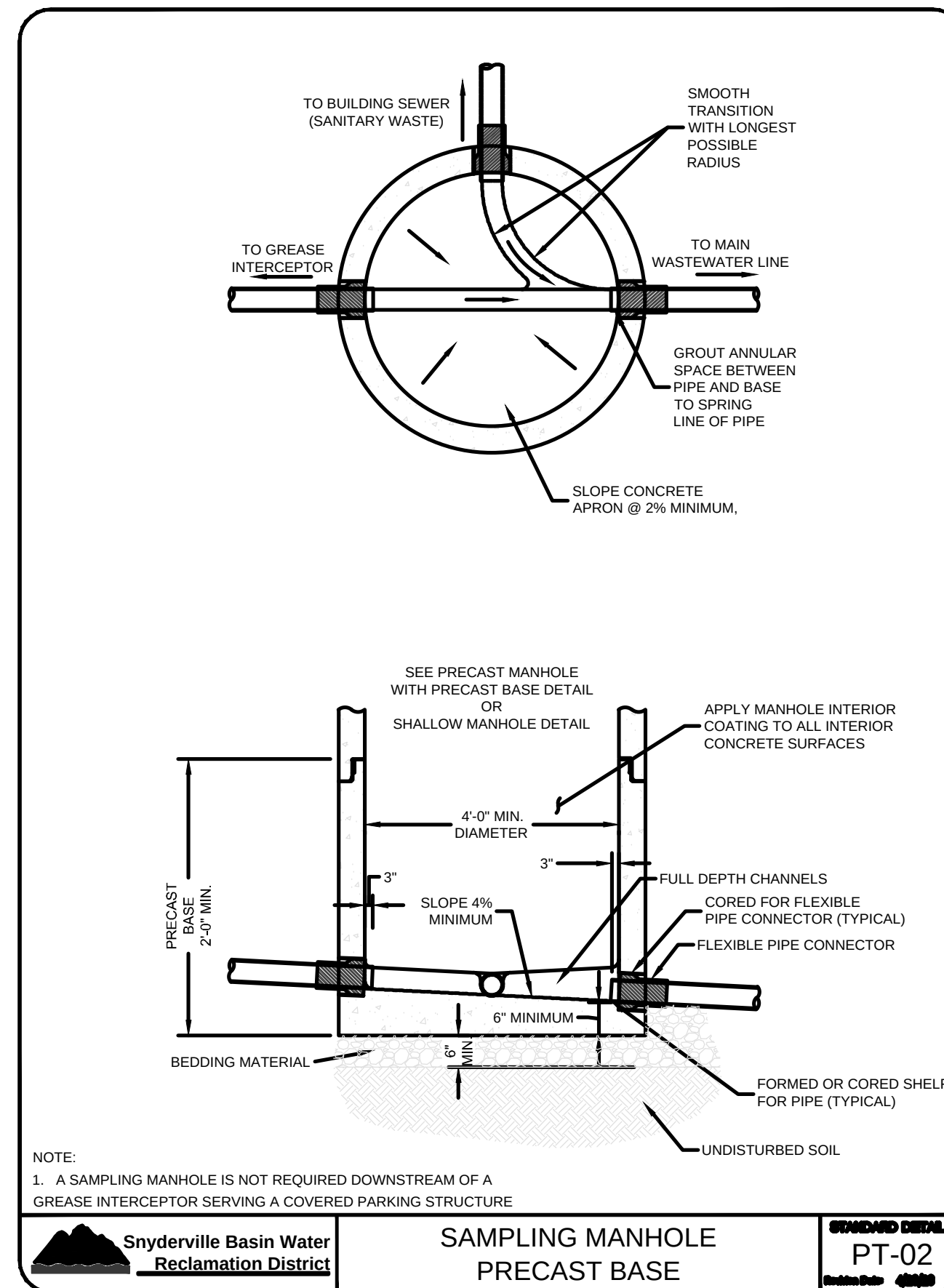
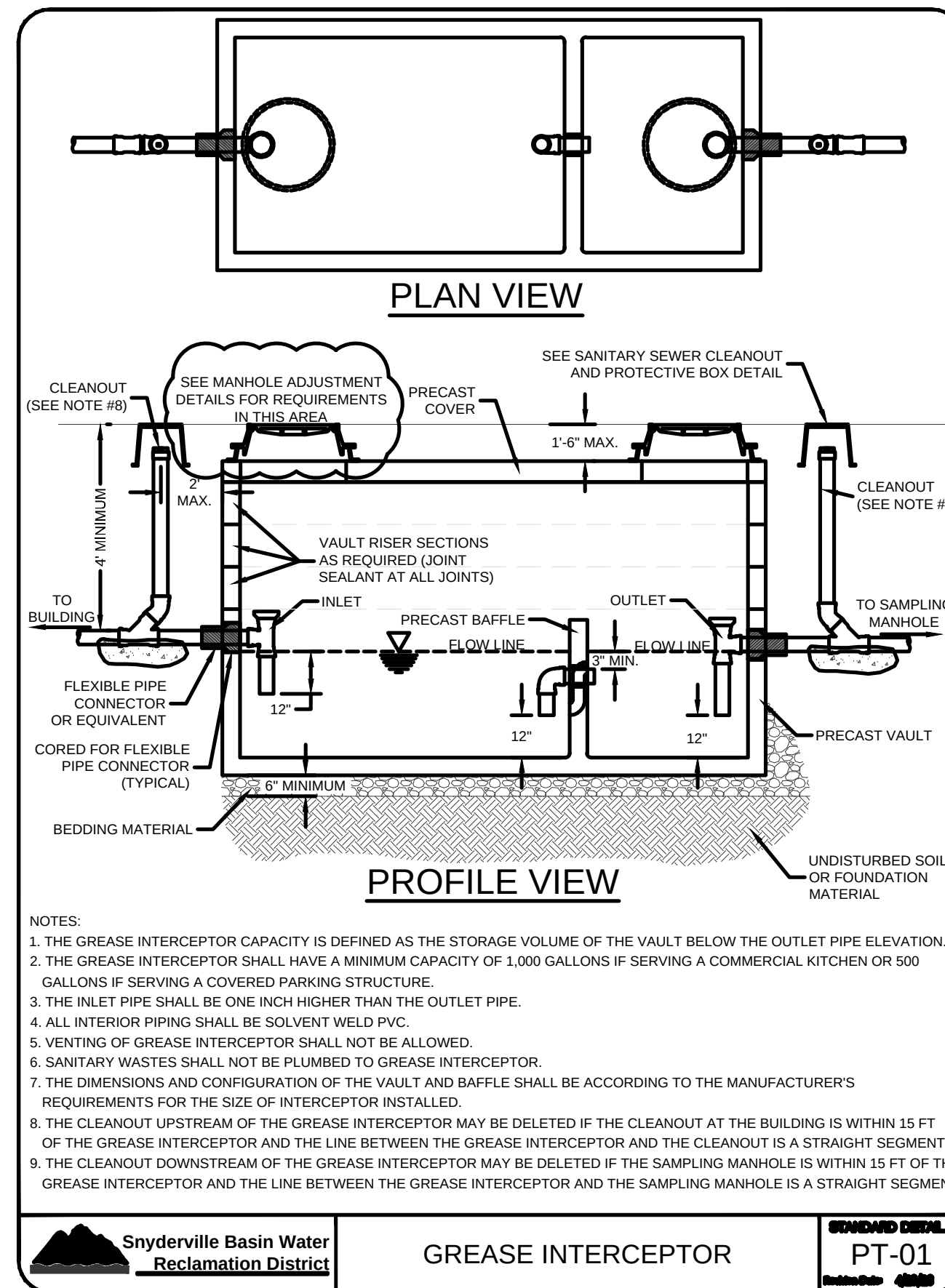
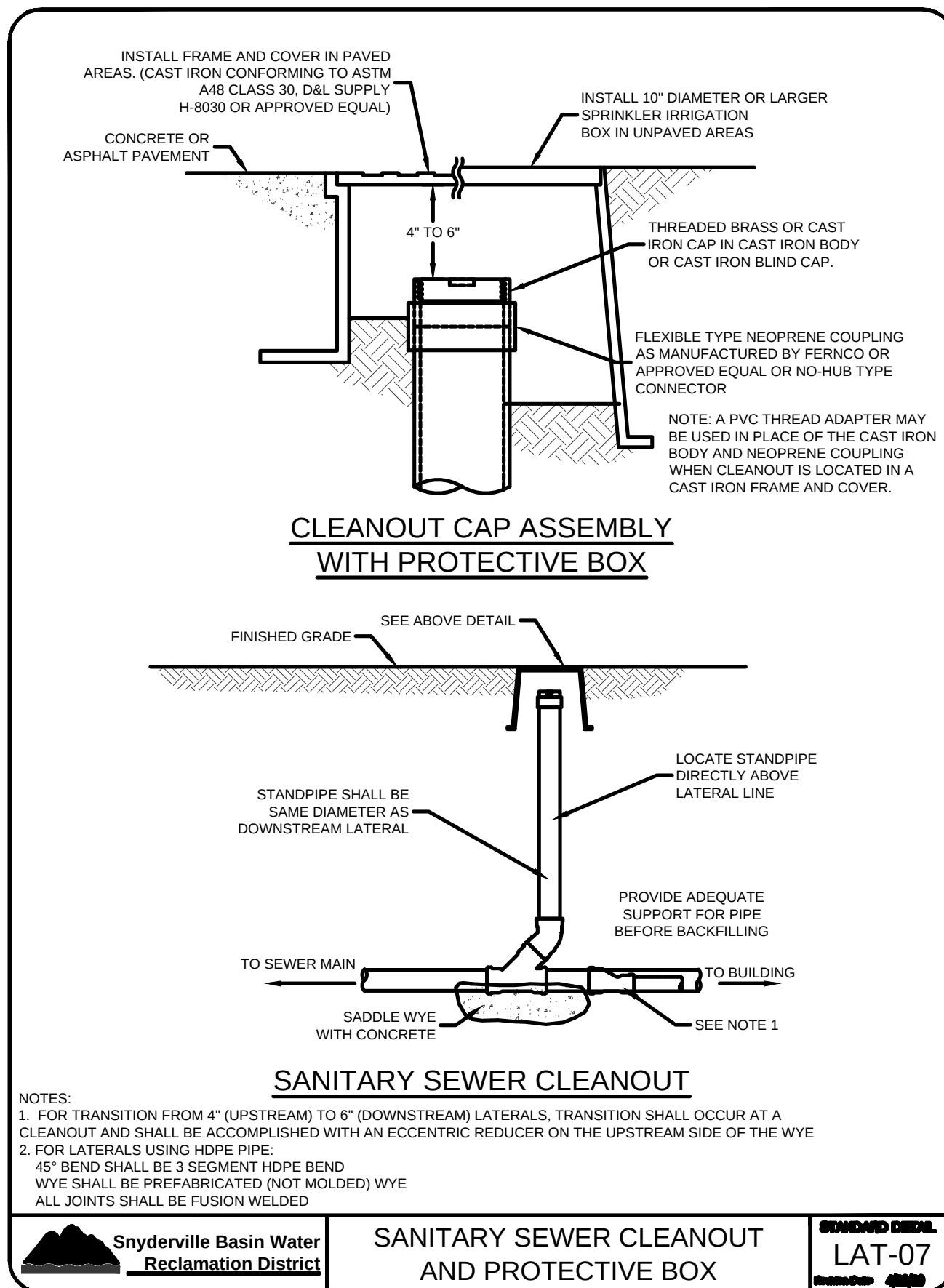
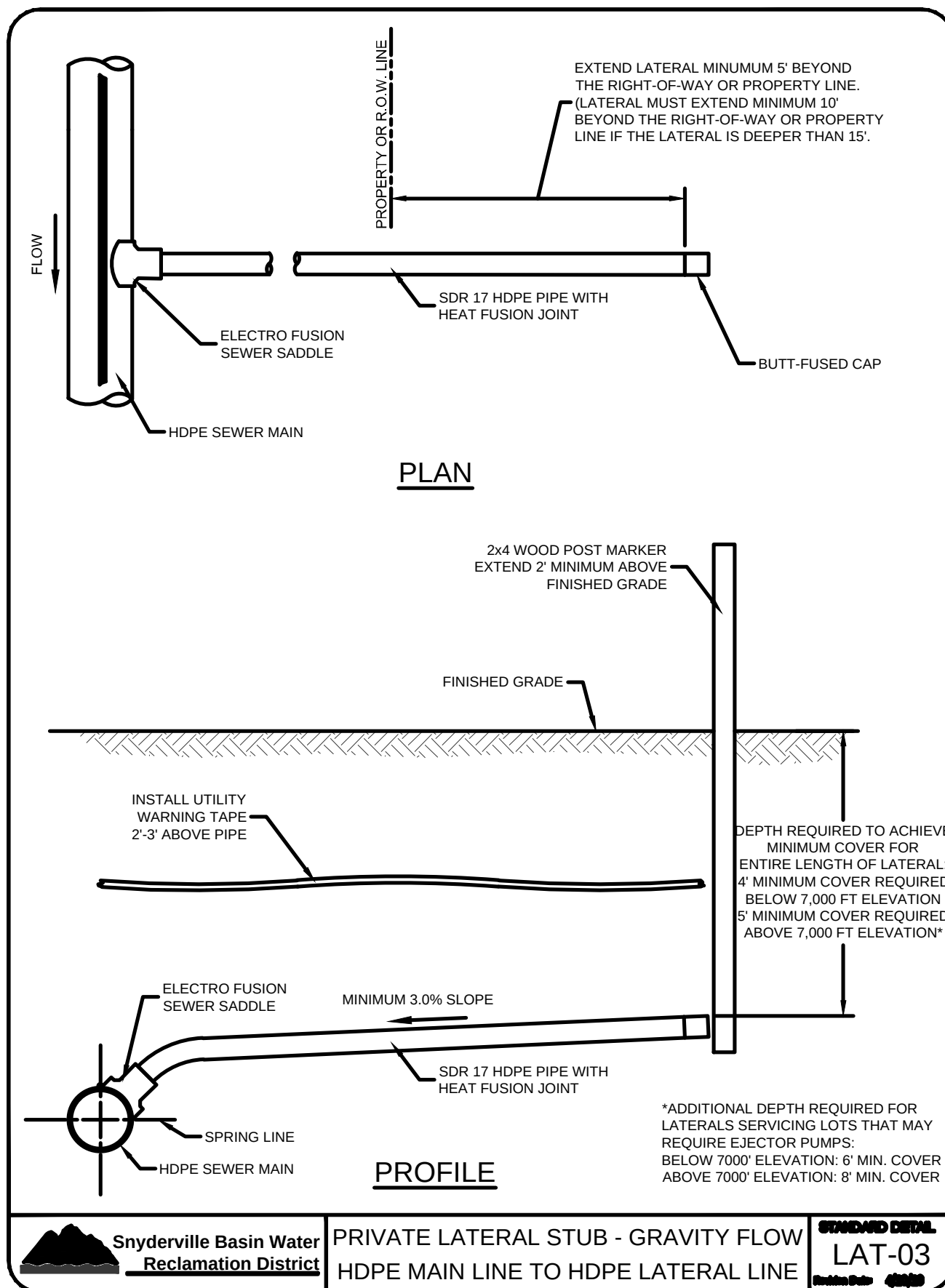
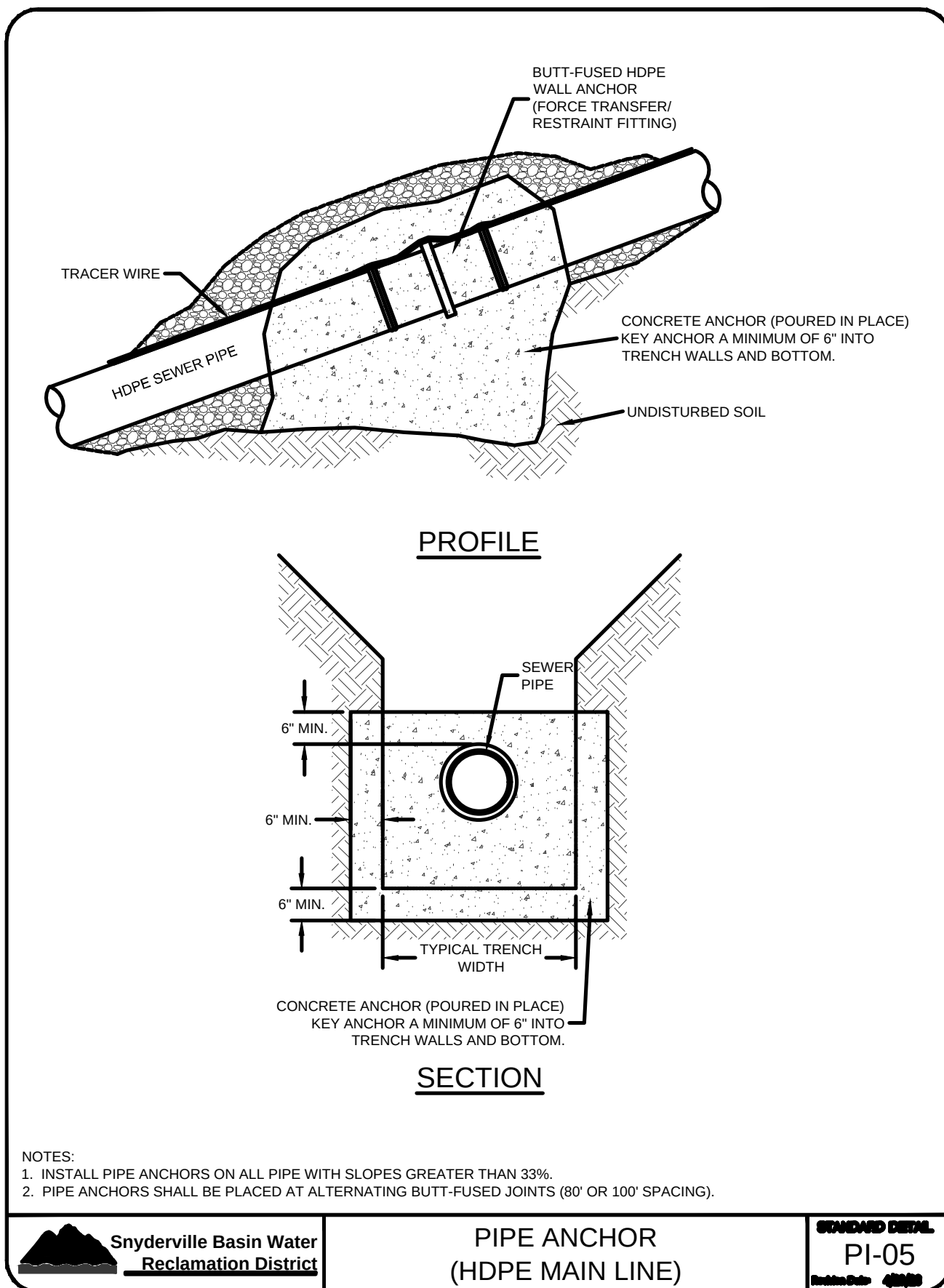
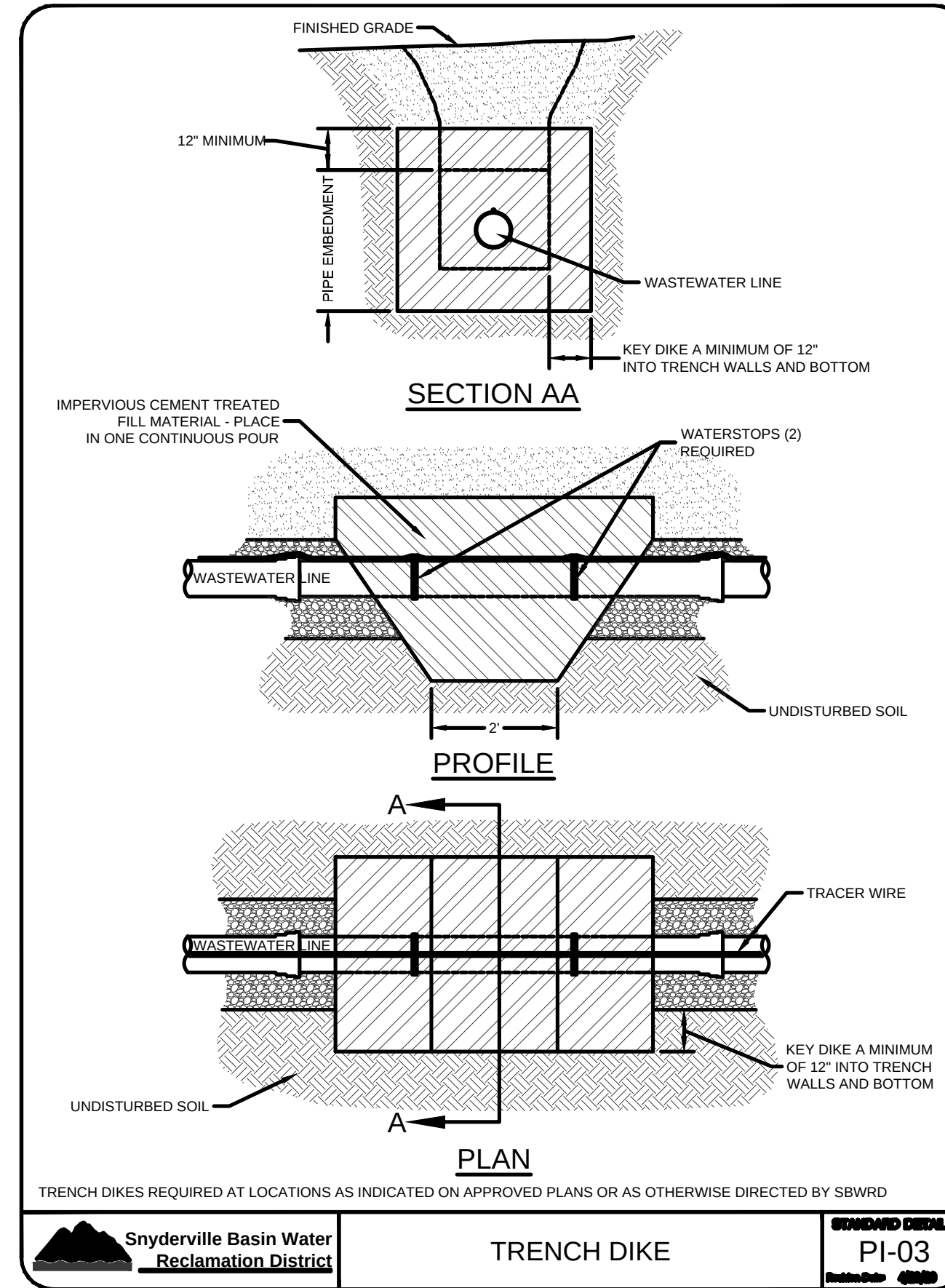
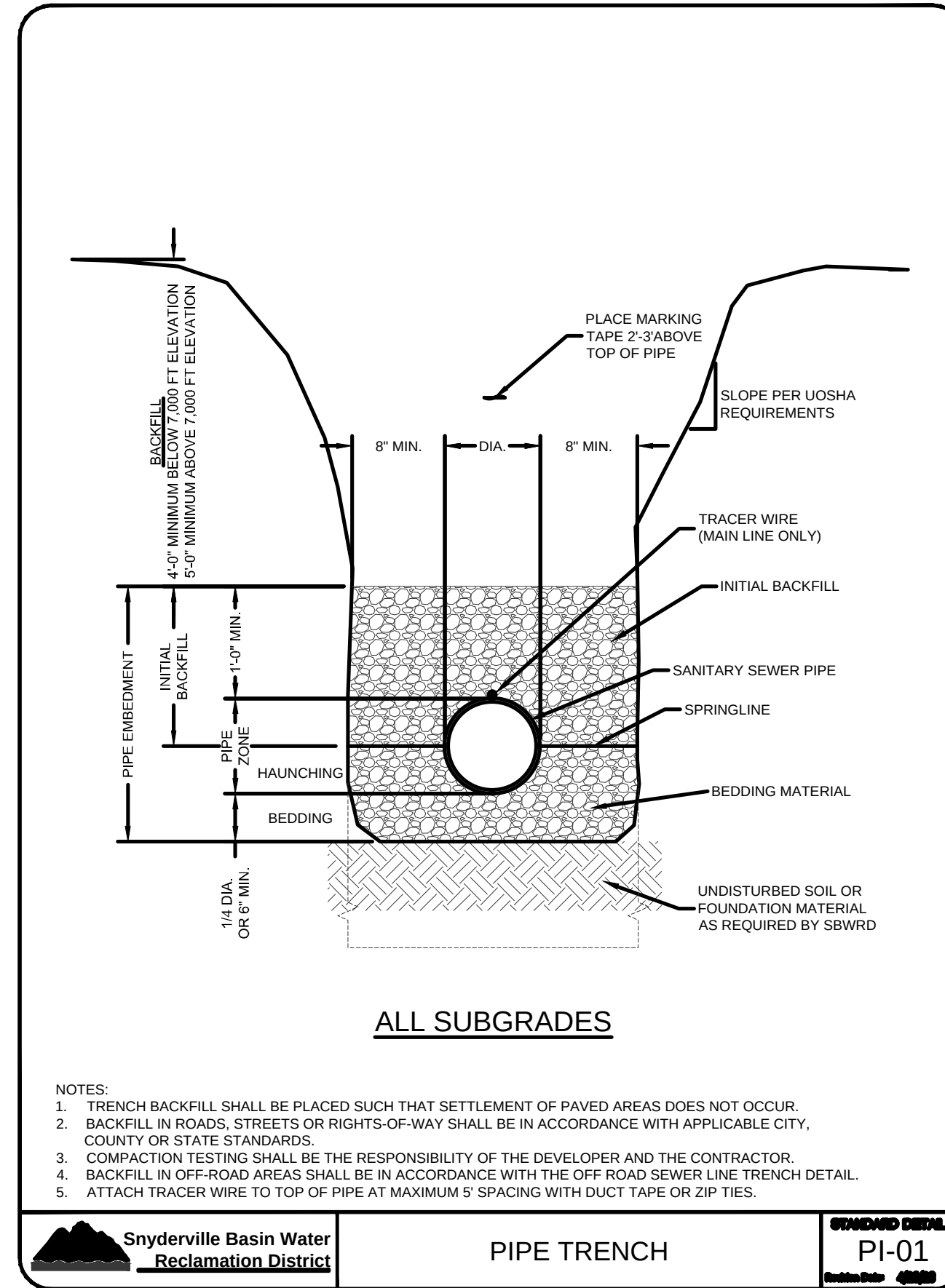
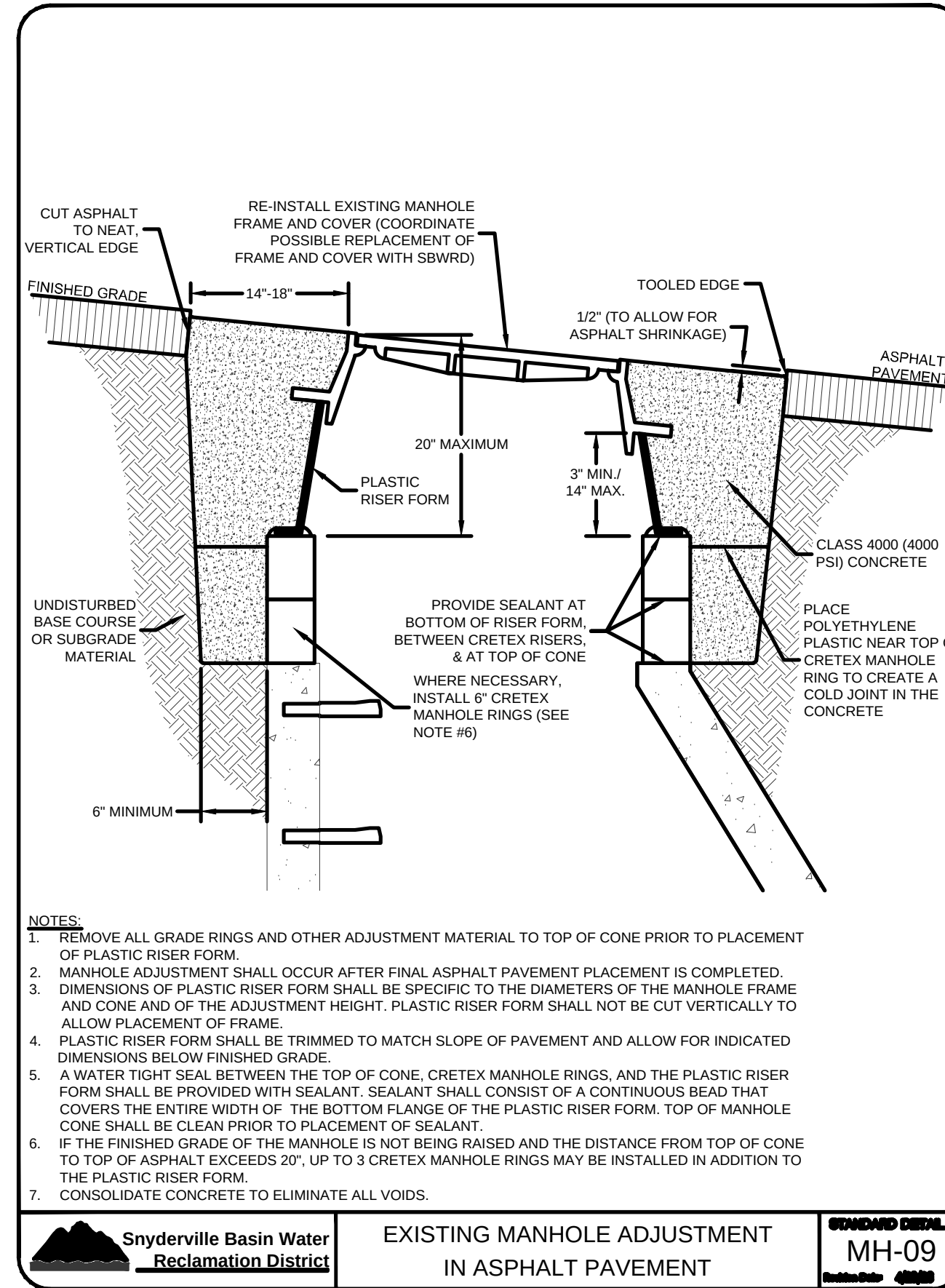
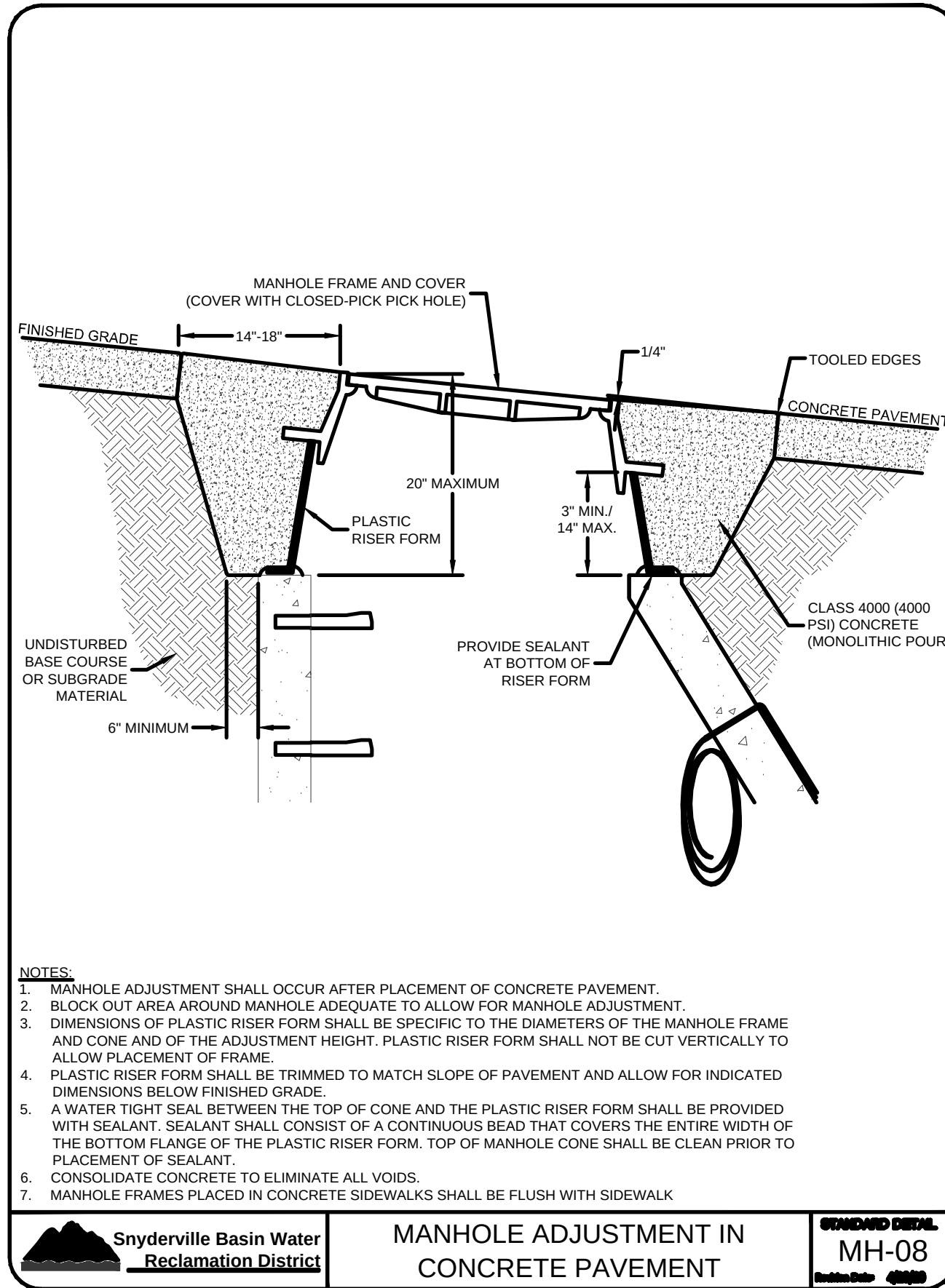
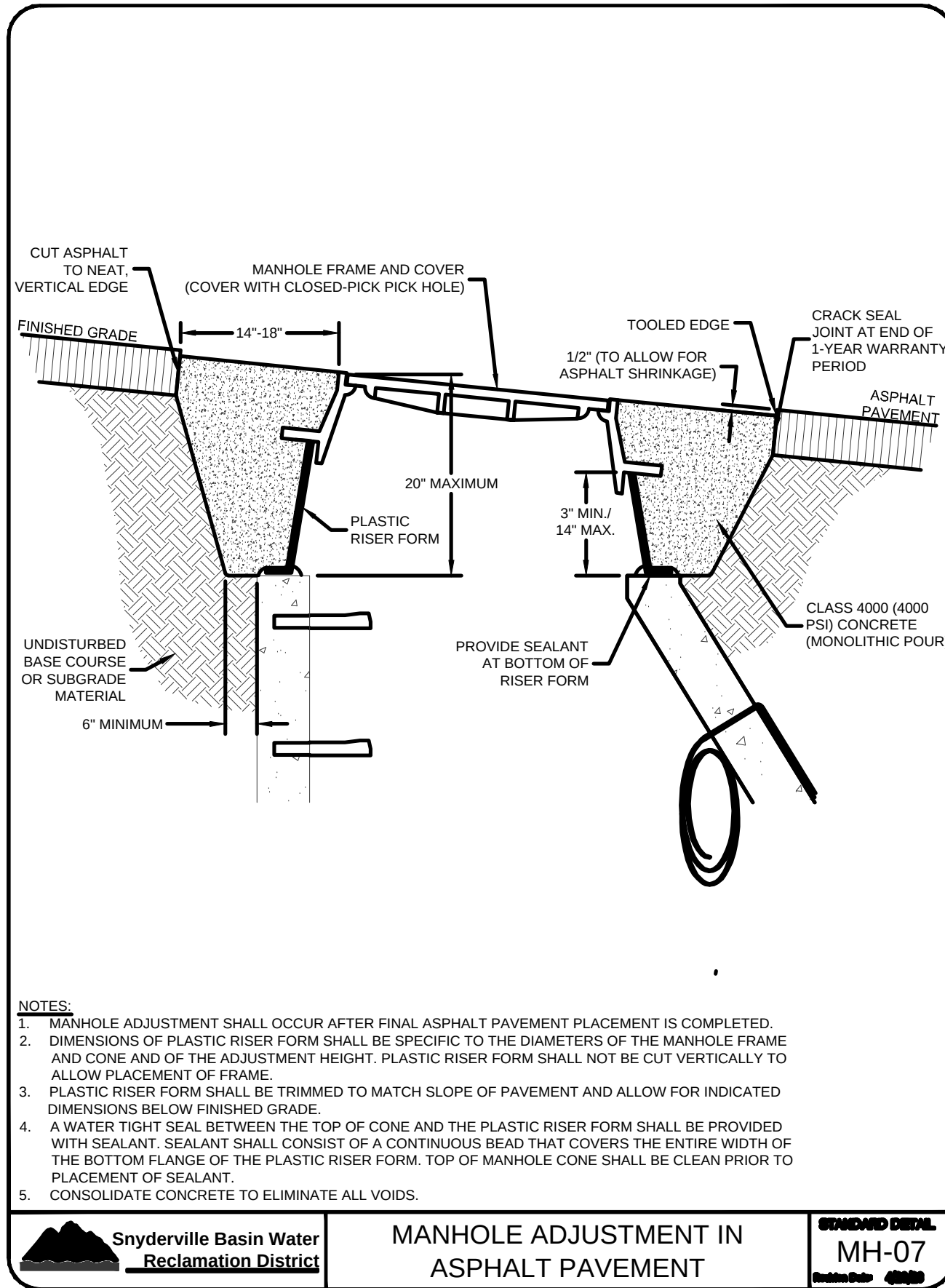
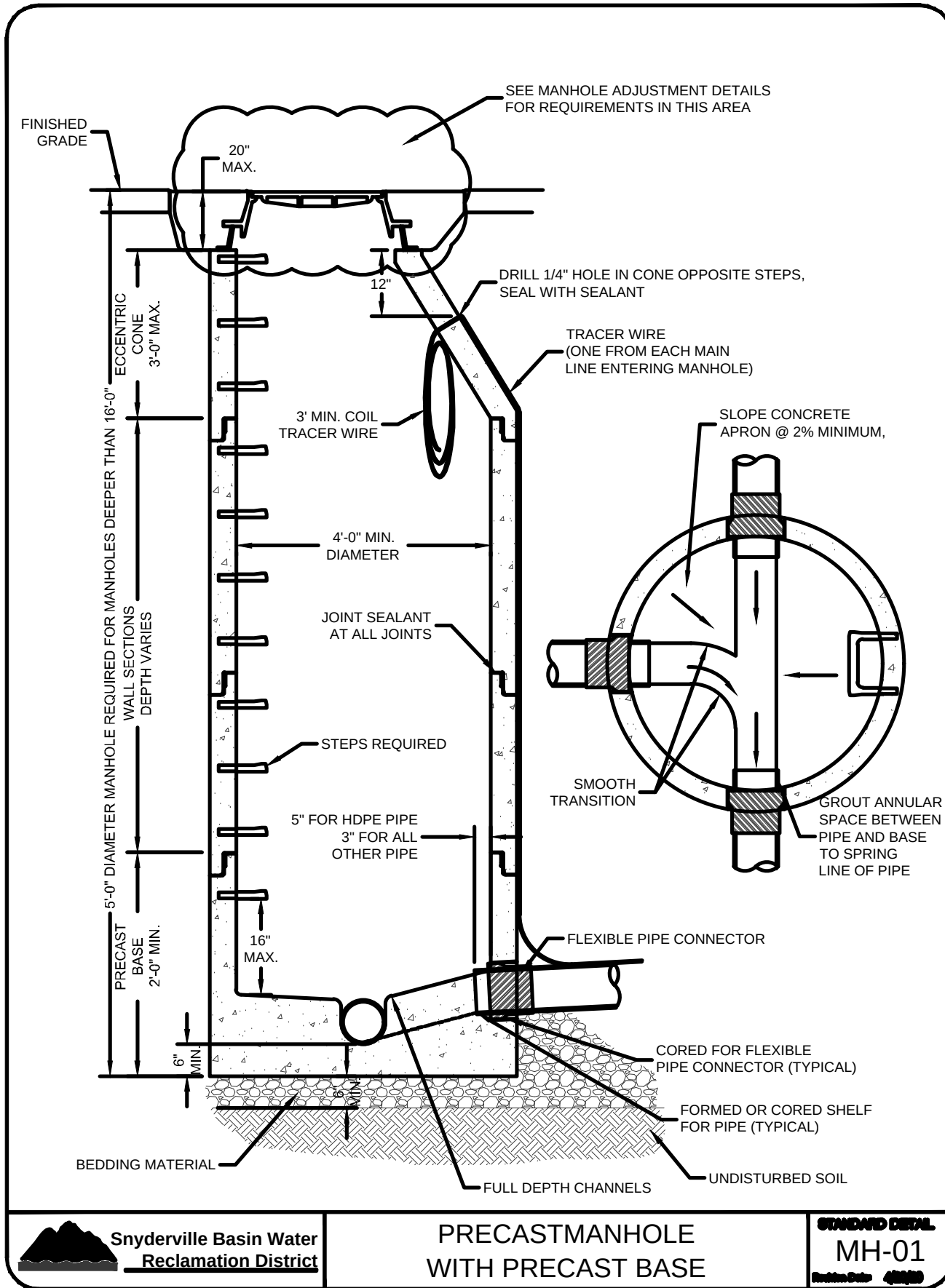
ESS	EXISTING SEWER	X	EXISTING FENCE
EW	EXISTING WATER	EG	EXISTING GAS
ESD	EXISTING STORM DRAIN	ET	EXISTING TELECOM
EHU	EXISTING OVERHEAD UTILITY	EP	EXISTING POWER
EFO	EXISTING OVERHEAD FIBER OPTIC	EHP	EXISTING OVERHEAD POWER

ALLIANCE ENGINEERS
CONSULTING ENGINEERS LAND PLANNERS SURVEYORS
125 Main Street P.O. Box 2664 Rose City, Utah 84062-2664
(435) 649-9467

STAFF:
MICHAEL DEMKOWICZ
CONNOR DINSMORE
DATE: 07/13/2022

BUILDING PERMIT SET
CONSTRUCTION MITIGATION PLAN & SWPPP
SOMMET BLANC DEVELOPMENT
FOR: SOMMET BLANC RESIDENCES I, LLC
JOB NO.: 1-11-18
FILE: X:\Empire\dwg\B2 East Design\B2 East-Civil.dwg

SHEET C.16



STAFF:
MICHAEL DEMKOWICZ
CONNOR DINSWIRE

BUILDING PERMIT SET
DETAILS 1/4
SOMMET BLANC DEVELOPMENT
FOR: SOMMET BLANC RESIDENCES I, LLC
JOB NO.: 1-11-18
FILE: x:\Empire.dwg\B2 East Design\B2 East-Civil.dwg

SHEET
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OUTSIDE WATER METER VALVE (STD. PLAN 527). SIZE AS REQUIRED

1 1/2" MN. WATER METER

1 1/2" MN. AIR RELIEF VALVE

1 1/2" MN. WATER METER

1 1/2" MN. AIR RELIEF VALVE

1 1/2" MN. DISMANTLING JOINT

1 1/2" MN. GATE VALVE

1 1/2" MN. CHECK VALVE, SEE NOTE

2 1/2" MN. GATE VALVE

FLANGE CONNECTION

CITY RESPONSIBILITY

PROPERTY OWNER'S SERVICE LINE

3" AND LARGER

AND RESPONSIBILITY

LEGEND

ITEM	DESCRIPTION
1	EXISTING MANHOLE
2	DUCTILE IRON TAPPING GLEEVE OR DUCTILE IRON TE
3	TAPPING VALVE, DR. F.L.G. M. GATE VALVE (STD. PLAN 527)
4	DUCTILE IRON PIPE FULLY REINFORCED
5	WATER SERVICE LINE (STD. PLAN 541)
6	THURST BLOCK (STD. PLAN 561)
7	BRONZE DOUBLE STRAP SERVICE SADDLE (STD. PLAN 541)
8	POLYETHYLENE WRAPPED (STD. PLAN 540A)
9	CORPORATION STOP (STD. PLAN 541)

NOTES:

- DOUBLE CHECK VALVE OR REDUCED PRESSURE PRINCIPLE BACKFLOW ASSEMBLY TO BE DETERMINED BY BUILDING AND WATER DEPARTMENTS BASED ON DEGREE OF HAZARD REQUIRED BY FIRE SPRINKLER PROTECTION SYSTEMS ETC.
- WATER METER 3/4" AND LARGER WILL REQUIRE A DUCTILE IRON TE, VALVING, AND DISMANTLING JOINT. A BUILDING DESIGNER IS REQUIRED.
- A WATER METER 1/2" IS REQUIRED FOR COMMERCIAL APPLICATIONS.

DATE	BY	DATE	BY
1/2/04	REV		

FIRE SERVICE LINE

542

DATE OF CONSTRUCTION

WATER

DATE OF CONSTRUCTION

WATER

LEGEND AND APPROVED PARTS LIST			
ITEM	DESCRIPTION	ACCEPTABLE MANUFACTURER	MODELS
	BUTTERFLY VALVE, MS, AWWA C308 CLASS 200, 20"PIPE, 3ST BONNET BOLT'S, FLANGED END CONNECTION	MUELLER	LINESEAL, XPL, 527 SERIES MODEL: 4500
①	GATE VALVE, MS, AWWA C308, 250 PSI, 8ST BONNET BOLT'S, FLANGED CONNECTIONS PER FOLLOWING: ON THE LEFT END: 4X ON THE RIGHT END: 4X PER DESIGN	MUELLER	SERIES 2300 MODEL: 2030
②	POLYETHYLENE GLASS REINFORCY HIGH DENSITY DROSGE LAMINATED (HDL) POLYETHYLENE PLAM, AWWA C105 & AWWA C200 METHOD C	CORROPLY OR APPROVED EQUAL	CHRYSEAL C73000 METHOD C 4"MIN.
③	VALVE BOX, CAST IRON, TWO PIECE, SLIP TYPE WITH CAST IRON COUPLER TO BE USED AS FOLLOWS: SOLUTION VALVE: "WATER" PUMP VALVE: "WATER" PUMP VALVE: "WATER" ZONE VALVE: "ZONE" PRESSURE VALVE: "PRESS" VALVE BOX RIM: LHM ONE PER VALVE BOX	DILL, SUPPLY OR APPROV EQUAL	BOX AND IDL: M-4040 RISER: M-4030 TIE IN: M-4055 EXTENSION: M-4070

DETAIL NOTES			
1.	VALVES TO BE RATED FOR WORKING AND TEST PRESSURE OF WATER MAIN		
2.	PROVIDE DISCHARGE ORifice, FRICTION OR GATE VALVE, AND BUTTERFLY VALVE: INTERIOR AND EXTERIOR		
3.	PROVIDE 8ST BOLT'S AND NUTS WITH ANTI-SEIZURE LUBRICANT ON FLANGED CONNECTIONS		
4.	DO NOT LOCATE VALVE AND VALVE BOX WITH CURB OR GUTTER		
5.	VENT VALVE VALVE BOX COATING TO HAVE 5 YEAR WORKING LIFE		
6.	PROVIDE ANCHORED SLIP BASE FOR VALVE BOX ON 2" RIBBY WATER MAIN		
7.	APPLY 7X VALVE BOX COATING TO HAVE 5 YEAR WORKING LIFE AND OTHER BURIED BOXES AND NUTS		
8.	AWWA C200 CPTL SYSTEM TO INCLUDE FILLER MATERIAL, TAPE COATING, AND PROTECTIVE EXTERIOR PAINT. SEND NORTH AMERICA, TRENCH OR APPROVED EQUAL, CPTL PLAN 410		

DATE	DATE	STD. PLAN
AS-BUILT	REV.	
BURIED VALVE AND VALVE BOX		570 S

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 WATER

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 (416) 649-9457 CONSULTING ENGINEERS LAND PLANNERS SURVEYORS 100 Main Street P.O. Box 2664 From: City, L1W 0A6-2664	STAFF: MICHAEL DEMKOWICZ CONNOR DINSMORE	BUILDING PERMIT SET DETAILS 2/4 SOMMET BLANC DEVELOPMENT	SHEET C.18
	DATE: 07/13/2022	FOR: SOMMET BLANC RESIDENCES I, LLC JOB NO.: 1-11-18 FILE: X:\Empire\dwg\82 East Design\82 East-Civil.dwg	

— MODEL — 90-01KO
(Full Internal Port)

Anti-Cavitation Pressure Reducing Valve



Schematic Diagram

Item	Description
1	Hytrol (100-01KO Main Valve)
2	X38 Restriction Fitting
3	CRD Pressure Reducing Control

Optional Features

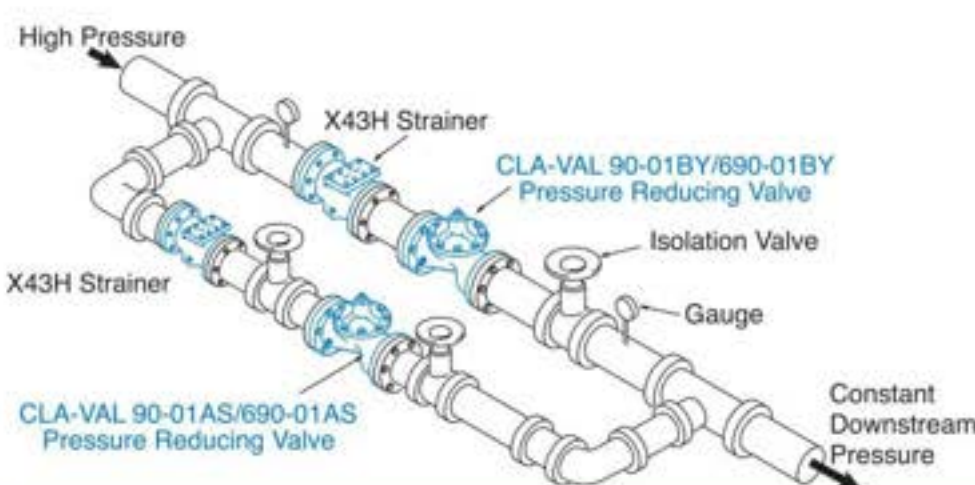
Item	Description
A	X46A Flow Clean Strainer
B	CK2 (Isolation Valve)
C	CV Flow Control (Closing)*
D	Check Valves with Isolation

Valve	X141 Pressure Gauge
P	CV Speed Control (Opening)
S	X101 Valve Position Indicator
V	X43 "Y" Strainer
Y	X43 H Style Strainer

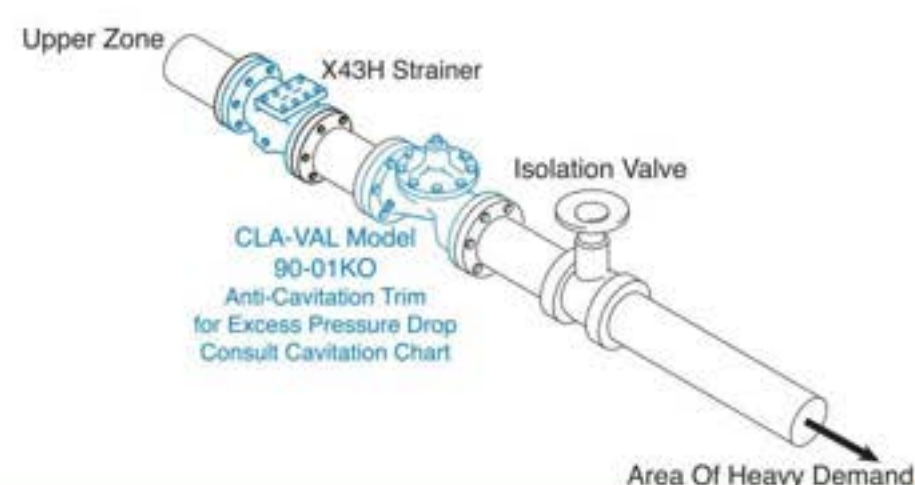
*The closing speed control (optional) on this valve should always be open at least three (3) turns off its seat.

Typical Applications

Typical applications include pressure reducing valve station using Model 90-01BYKO and Model 90-01ASKO in parallel to handle wide range of flow rates. Larger Model 90-01BYKO valve meets requirements of peak loads and smaller Model 90-01ASKO handles low flows.

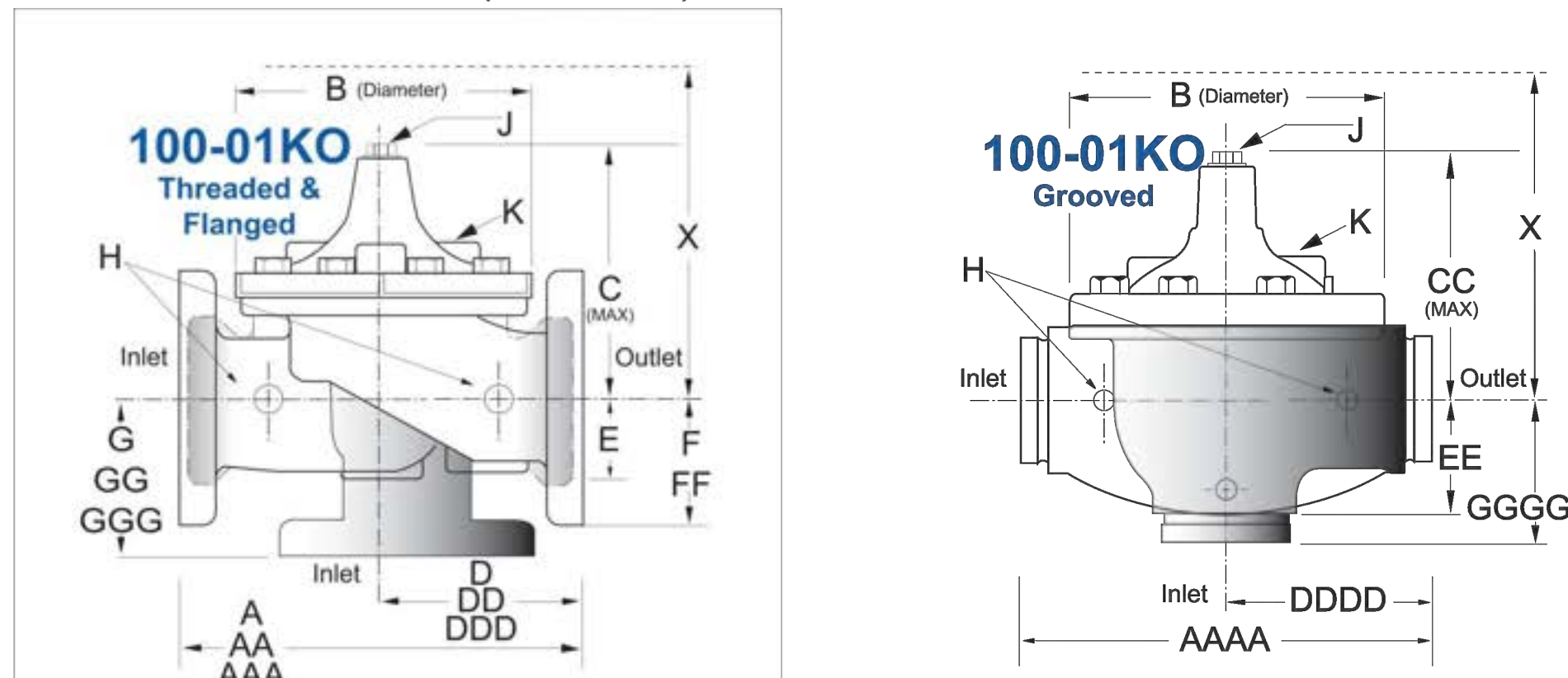


Cla-Val Model 90-01KO Pressure Reducing Valve with Anti-Cavitation Trim provides for optimum downstream pressure control while reducing noise and eliminating damage associated with cavitation. See Cavitation Guide to determine if the valve is a candidate for the KO Anti-Cavitation Trim.



The "Y" check feature on a vertically installed 6" and larger valves must be horizontally installed.

Model 100-01KO Dimensions (Full Internal Port) (In Inches)



Note:
Consult Factory on 10", 12", 16" angle pattern

Valve Size (Inches)	1	1 1/4	1 1/2	2	2 1/2	3	4	6	8	10	12	14	16	18	20	24	30	36
A Threaded	7.25	7.25	7.25	9.38	11.00	12.50	—	—	—	—	—	—	—	—	—	—	—	—
AA 150 ANSI	—	—	—	8.50	9.38	11.00	12.00	15.00	20.00	25.38	29.75	34.00	41.38	46.00	52.00	61.50	63.00	72.75
AAA 150 ANSI	—	—	—	9.00	10.00	11.62	13.25	15.62	21.00	26.38	31.12	35.50	43.50	47.84	53.62	63.24	64.50	74.75
AAAA Grooved End	—	—	—	8.50	9.00	11.00	12.50	15.00	20.00	25.38	—	—	—	—	—	—	—	—
B Diameter	5.62	5.62	5.62	6.62	8.00	9.12	11.50	15.75	20.00	23.62	28.00	32.75	35.50	41.50	45.00	53.16	56.00	66.00
C Maximum	5.50	5.50	5.50	6.50	7.56	8.19	10.62	13.38	16.00	17.12	20.88	24.19	25.00	30.06	41.90	43.93	54.60	59.00
CD Maximum Grooved End	—	—	—	4.75	5.75	6.98	7.25	9.31	12.12	14.62	—	—	—	—	—	—	—	—
D Threaded	3.25	3.25	3.25	4.75	5.50	6.25	—	—	—	—	—	—	—	—	—	—	—	—
DD 150 ANSI	—	—	—	4.00	4.75	5.50	6.00	7.50	10.00	12.69	14.88	17.00	20.81	—	—	—	—	—
DDD 300 ANSI	—	—	—	4.25	5.00	5.88	6.38	7.88	10.50	13.25	15.56	17.75	20.25	21.62	—	—	—	—
DDDD Grooved End	—	—	—	4.75	—	6.00	7.50	—	—	—	—	—	—	—	—	—	—	—
E	1.12	1.12	1.12	1.50	1.89	2.06	3.19	4.31	5.31	6.25	10.75	12.62	15.50	12.96	15.00	17.75	21.31	24.56
EE Grooved End	—	—	—	2.00	2.50	2.88	3.12	4.25	6.00	7.50	—	—	—	—	—	—	—	—
F 150 ANSI	—	—	—	2.50	3.00	3.50	3.75	4.50	5.50	6.75	8.00	9.50	10.50	11.75	15.00	16.50	19.25	28.50
FF 300 ANSI	—	—	—	3.06	3.25	3.75	4.13	5.00	6.25	7.50	8.75	10.25	11.50	12.75	15.00	16.50	19.25	24.00
G Threaded	1.68	1.68	1.68	3.25	4.00	4.50	—	—	—	—	—	—	—	—	—	—	—	—
GG 150 ANSI	—	—	—	4.00	3.25	4.00	4.00	5.00	6.00	6.50	8.62	13.75	14.88	15.69	—	—	—	—
GGG 300 ANSI	—	—	—	4.25	3.50	4.31	4.38	5.31	6.50	8.50	9.31	14.50	15.62	16.50	—	—	—	—
GGGG Grooved End	—	—	—	3.25	—	4.25	5.00	—	—	—	—	—	—	—	—	—	—	—
H NPT Body Tapping	0.375	0.375	0.375	0.375	0.50	0.50	0.75	0.75	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	2.00	2.00
I NPT Cover Center Plug	0.25	0.25	0.25	0.50	0.50	0.50	0.75	0.75	1.00	1.00	1.25	1.50	1.50	1.50	1.50	2.00	2.00	2.00
J NPT Cover Tapping	0.375	0.375	0.375	0.375	0.50	0.50	0.75	0.75	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	2.00	2.00
K Stem Travel	0.40	0.40	0.40	0.60	0.70	0.80	1.10	1.70	2.30	2.80	3.40	4.00	4.50	5.10	5.63	6.75	7.50	8.50
L Approx. Ship Weight (lbs)	15	15	15	35	50	70	140	285	500	780	1165	1600	2265	2962	3900	6200	7703	11720
M Approx. X Pilot System	11	11	11	11	15	17	28	31	33	36	40	43	47	48	79	85	136	165
N Approx. Y Pilot System	9	9	9	9	10	11	12	20	22	24	26	29	30	32	34	39	40	45
O Approx. Z Pilot System	9	9	9	9	10	11	12	20	22	24	26	29	30	32	34	39	42	47

Cla-Val Control Valves with KO ANTI-CAVITATION Trim operate with maximum efficiency when mounted in horizontal piping with the main valve cover up. We recommend isolation valves be installed on inlet and outlet for maintenance. Adequate space above and around the valve for service personnel should be considered essential. A regular maintenance program should be established based on the specific application data. However, we recommend a thorough inspection be done at least once a year. Consult factory for specific recommendations.

Specifications

Pattern	Globe	Angle	Grooved End
Size	1" - 36"	1 1/4" - 16" & 24"	1 1/4" - 8"

Pressure Ratings

Valve Body & Cover	Pressure Class			
	Flanged	Grooved	Threaded	Ends Details
Grade	Material	ANSI Standards	150 Class	300 Class
ASTM A536	Ductile Iron	B16.42	250	400
ASTM A216-WCB	Cast Steel	B16.5	285	400
ASTM B62	Bronze	B16.24	225	400

Note: * ANSI standards are for flange dimensions only. Flanged valves are available faced but not drilled. ‡ End Details machined to ANSI B2.1 specifications. Valves for higher pressure are available; consult factory for details.

Operating Temp. Range

Fluids	Temp. Range
Water	-40° to 180° F

NSF

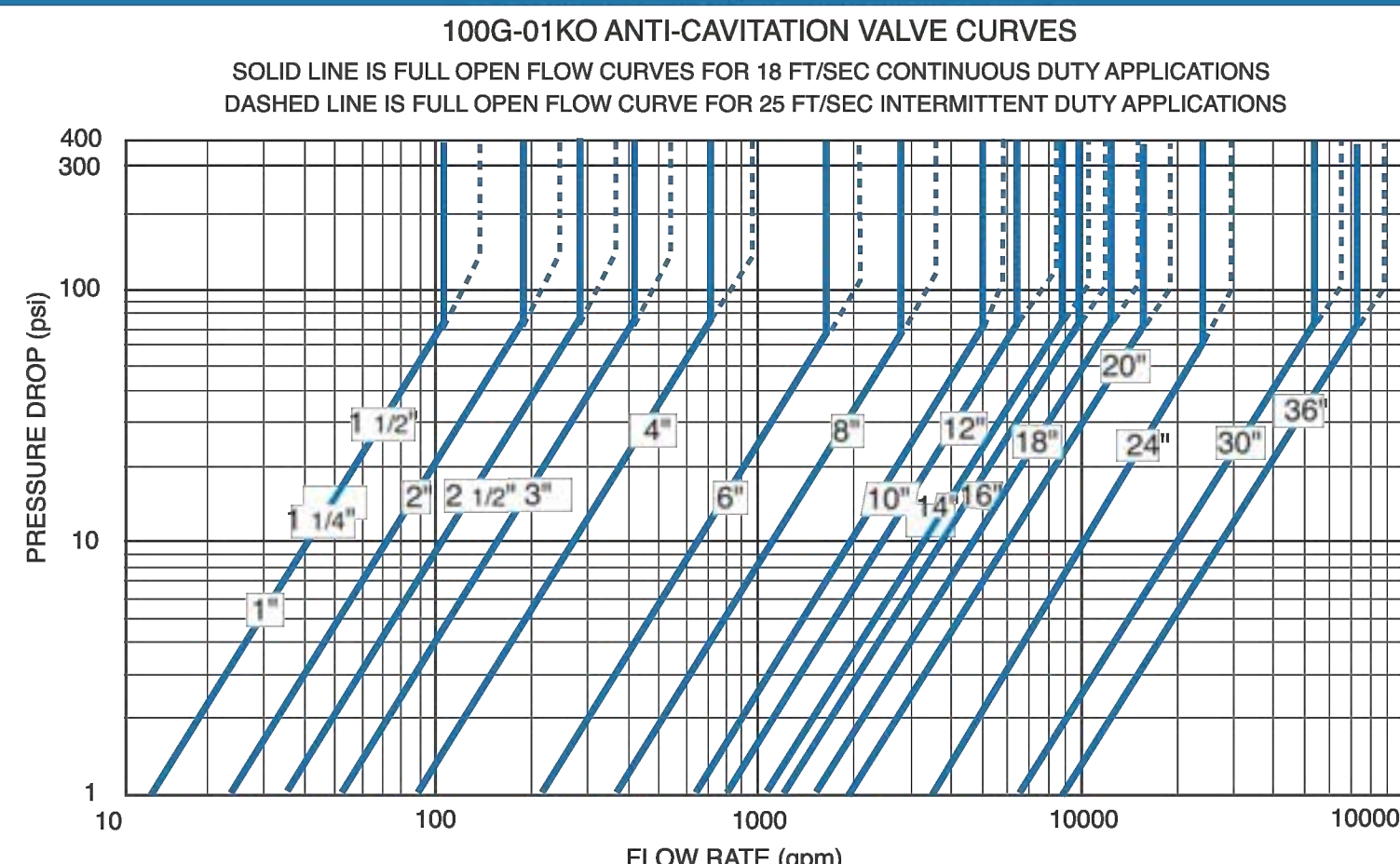
APPROVED
(4" - 24")

Model 100-01KO

Materials

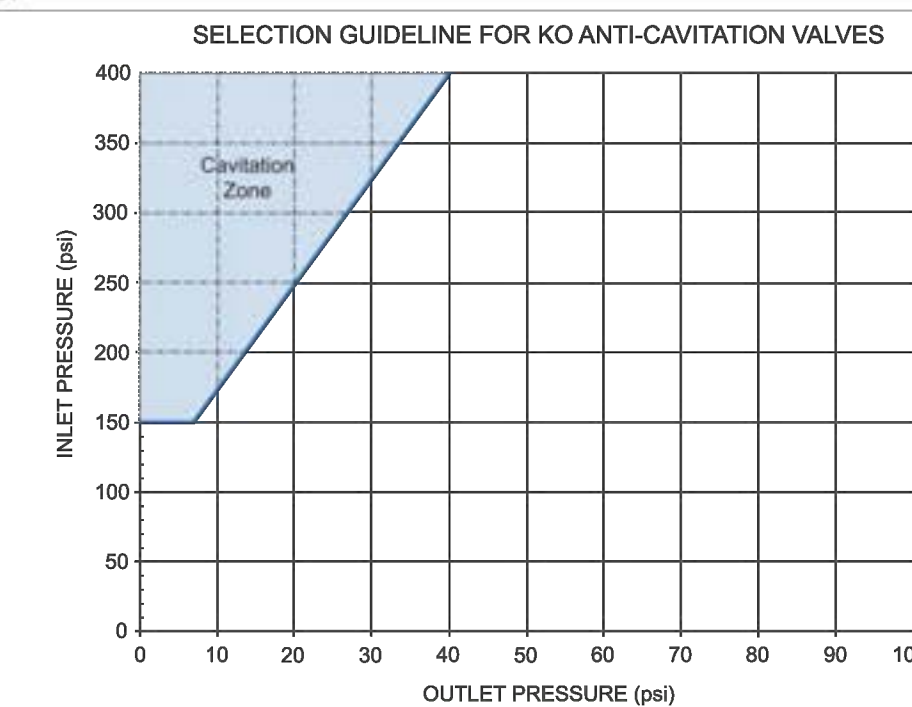
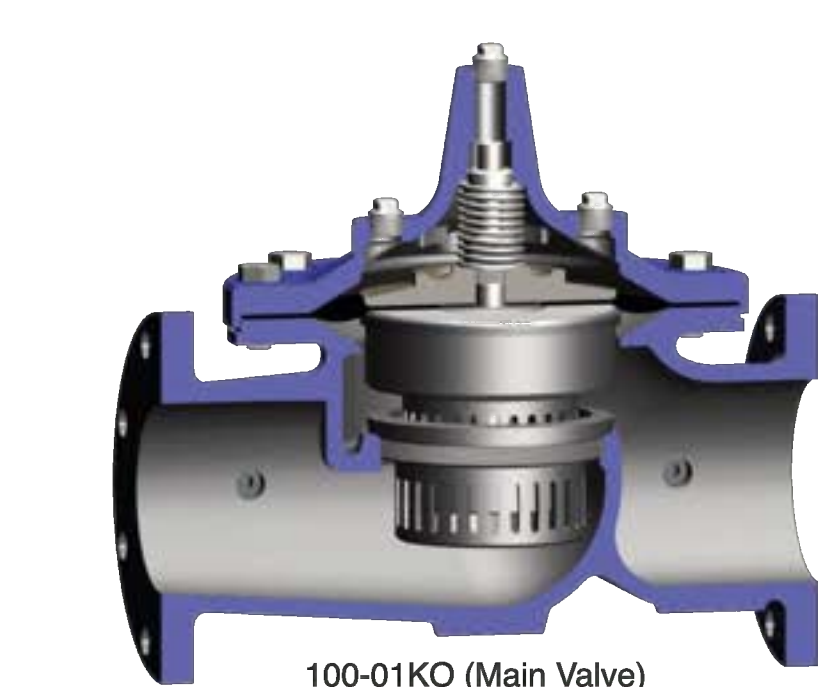
Component	Standard Material Combinations
Body & Cover	Ductile Iron, Cast Steel, Bronze
100-01KO Available Sizes	1" - 36"
Disc Retainer & Diaphragm Washer	Cast Iron, Cast Steel, Bronze
Trim: Disc Guide, Seat & Cover Bearing	Stainless Steel is Standard
Disc	Buna-N® Rubber
Diaphragm	Nylon Reinforced Buna-N® Rubber
Stem, Nut & Spring	Stainless Steel

For material options not listed, consult factory. Cla-Val manufactures valves in more than 50 different alloys.



Notes: On Operating Differential

- For atmospheric discharge, the maximum inlet pressure cannot exceed 150 psi.
- For pressure differentials greater than 300 psi, the maximum flow velocity should not exceed 18 ft/sec.
- Flow velocities greater than 25 ft/sec are not recommended.
- Recommended minimum flow velocity is 1 ft/sec.
- Consult factory for conditions exceeding these recommendations.



90-01KO

Valve Selection

Inches	1	1 1/4	1 1/2	2	2 1/2	3	4	6	8	10	12	14	16	18	20	24	30	36
Pattern	C	G	A	C	A	G	A	C	A	C	A	C	A	C	A	G	C	A
End Detail	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
Max. Continuous Flow (gpm)	84	84	115	190	270	410	710	1620	2810	4420	6880	7590	9920	12550	14900	22600	37700	52450
Max. Interimittent Flow (gpm)	120	120	160	260	370	580	990	2250	3900	6150	8720	10540	13700	17500	21700	31300	48000	62500
Min. Continuous Flow (gpm)	10	10	10	15	20	30	50	115	200	300	400	500	650	800	1073	1577	2650	3150
Max. Continuous Flow (Liters/Sec)	5.3	5.3	7.3	12	17	26	45	102	177	279	397	479	694	792	940	1427	2379	3309
Max. Interimittent Flow (Liters/Sec)	7.6	7.6	10	16	23	37	62	142	246	387	549	664	963	1104	1369	1972	3028	3940
Min. Continuous Flow (Liters/Sec)	0.6	0.6	0.6	0.9	1.3	1.9	3.2	7.2	13	19	25	32	41	41	57	110	132	180

100-01KO Series is the full internal port Hytrol.

For Lower Flows Consult Factory

*Globe Grooved Only

Functional Data

Valve Size	Inches	1	1 1/4	1 1/2	2	2 1/2	3	4	6	8	10	12	14	16	18	20	24	30	36
Cv Factor	Globe Pattern	25	32	40	50	65	80	100	150	200	250	300	350	400	450	500	600	750	900
	Angle Pattern	14	14	14	25	37	52	90	219	362	650	810	1100	1200	1550	1950	3900	6100	9150
Equivalent Length of Pipe	Globe Pattern	60	60	60	72	84	127	174	262	401	745	646	500	921	1078	1280	1381	1188	1205
	Angle Pattern	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
K Factor	Globe Pattern	30.6	30.6	30.6	26.1	24.3	29.3	29.0	25.5	27.7	41.0	27.7	22.8	31.4	30.2	29.5	28.9	17.6	15.1
	Angle Pattern	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Liquid Displaced from Cover Chamber When Valve Opens	U.S. Gal.	0.2	0.2	0.2	0.3	0.4	0.6	1.7	5.3	1.26	2.5	4.0	6.5	9.6	11	12	29	65	90
	Litres	0.8	0.8	0.8	1.2	1.6	3.0	6.4	2.0	4.8	9.5	15.1	25.6	36.2	41.6	45.4	110	246	340

For assistance in selecting appropriate valve options or valves manufactured with special design requirements, please contact our Regional Sales Office or Factory.

Cv Factor

Formulas for computing Cv Factor, Flow (Q) and Pressure Drop (ΔP):

$$C_v = \frac{Q}{\sqrt{\Delta P}} \quad Q = C_v \sqrt{\Delta P} \quad \Delta P = \left(\frac{Q}{C_v} \right)^2$$

The Value of K is calculated from the formula: $K = \frac{894d^4}{C_v^2}$

Equivalent Length of Pipe (L) are determined from the formula: $L = \frac{Kd}{12f}$

Fluid Velocity (V) can be calculated from the following formula: $V = \frac{4085 Q}{d^2}$

Pressure Drop (ΔP) can be calculated from the following formula: $\Delta P = \frac{8.5 Q^2}{C_v^2}$

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Pressure Drop (ΔP) can be calculated from the following formula: $\Delta P = \frac{8.5 Q^2}{C_v^2}$

Pressure Drop (Δ

		MATERIAL LIST (CONT)		
ITEM		PRESSURE REDUCING VALVE WAULT		
19	2" STEEL PIPE SUMP STAND, ADJUSTABLE, 2 REQUIRED ON 6" PIPE SYSTEM, 2 REQUIRED ON 2" PIPE SYSTEM, SEE STD. PLAN 573-9			
20	CORE DRILL OPENING WITH LINE-SCALE PIPE TO-WALL SEAL, TYPICAL, ON ALL OPENING, FILL OUTSIDE OPENINGS WITH NON-SHRINK GROUT AND GULCH			
21	DRAIN SUMP, PIPE TO DAYLIGHT WITH DRAIN PIPE AND #4 SST RODENT PROTECTION SCREEN ON ENDOF PIPE, ROUTE AS SHOWN ON SITE PLAN IF NO PIPE-TO-DAYLIGHT OPTION IS AVAILABLE, INSTAL A SUMP PUMP, SEE STD. PLAN 573-2.2			
22	3/4" HOE BIBBS, 1/4 THRED - SEE STD. PLAN 573-0.1			
23	VAULT IN CEMENTS, WITH 573-A AND 573-B A. PRECAST CONCRETE VAULT RATED FOR HS-20 LOADING, MAY BE CAST IN PLACE PER CITY APPROVAL, PROVIDE STAIRED STRUCTURAL DRAWINGS B. WATERPROOF OUTSIDE WALLS AND TOP SLAB PER BIC CODE FOR BURIED FOUNDATIONS C. MECHANICAL JOINT DUCTILE IRON RETAINER GLAND WITH CONCRETE THRUST BLOCK, REINFORCE CONCRETE WITH #4 GASH EACH SIDE OF PIPE.			
24	6"X6"X3' DI TEE FLANGE, FLANGE X PLANGE			
25	2" CLAWK A 43H (H STYLE) STRAINER, FLANGED ENDS, 10 MESH 6BT SCREEN, CAGE SUPPORT, AND O-RING			
27	3" PRESSURE RELF VALVE, CLAWK MODEL, 50-20 1/2 INCH WITH MOUNTED LIMIT SWITCH OR MICRO SWITCH WITH CLAWK CONNECT FOR OPEN/ALARM CONDITION, SEE STD. PLAN 573-2.2 IN-LINE GAUGE VALVE, TRANSMITTER, ROSEMOUNT MODEL, 305T1G 800 PSI AVAILABLE TO INTEGRAL, 2 VALVE, ROSEMOUNT 300 MPANICOLD, SEE STD. PLAN 573-0.1, 4-20 MA ANALOG			
28	PIR GRATING, 1 1/2" THICK MIN. AND RATED FOR 300 LB/FT PEDESTRIAN TRAFFIC, INLAND TRENCH WIDTH TO BE 6" MINIMUM, AND 2'-12" DEEP.			
29	VAULT LADDER, SEE DETAIL P. 10 ON 573-0.4			
31	SUMP PUMP, 7.5 SUMP PUMP, TSURUMI MODEL, H522 45-63 OR EQUAL, SUMP PUMP REQUIRED IF DRAIN TO DAYLIGHT NOT AVAILABLE, SEE STD. PLAN 573-0.2			
32	6" DI PIPE, IF VAULT HAS FLOW, THIS ITEM SHALL BE REPLACED WITH ITEMS 25 AND 27.			

DATE _____

DESIGN _____

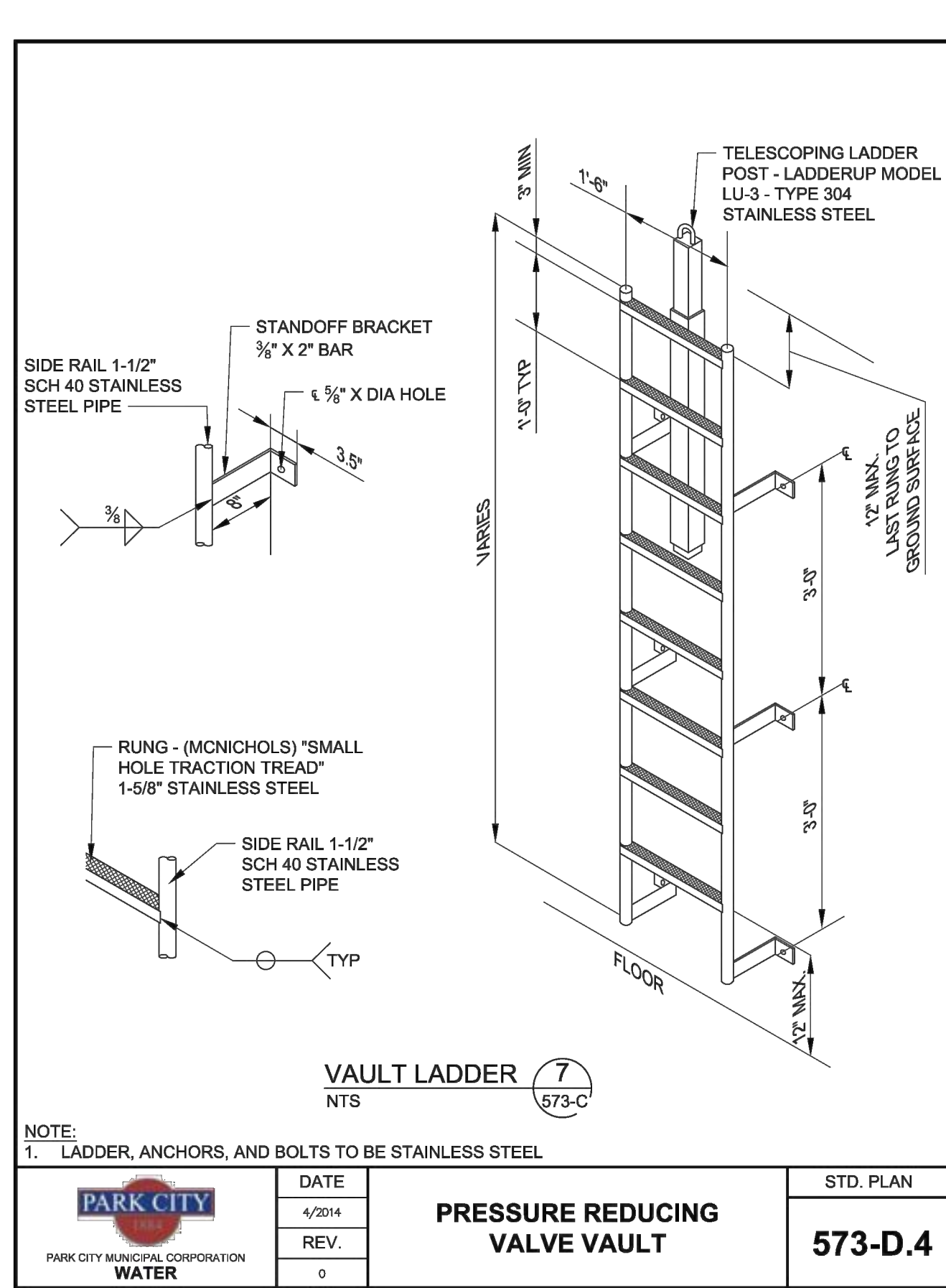
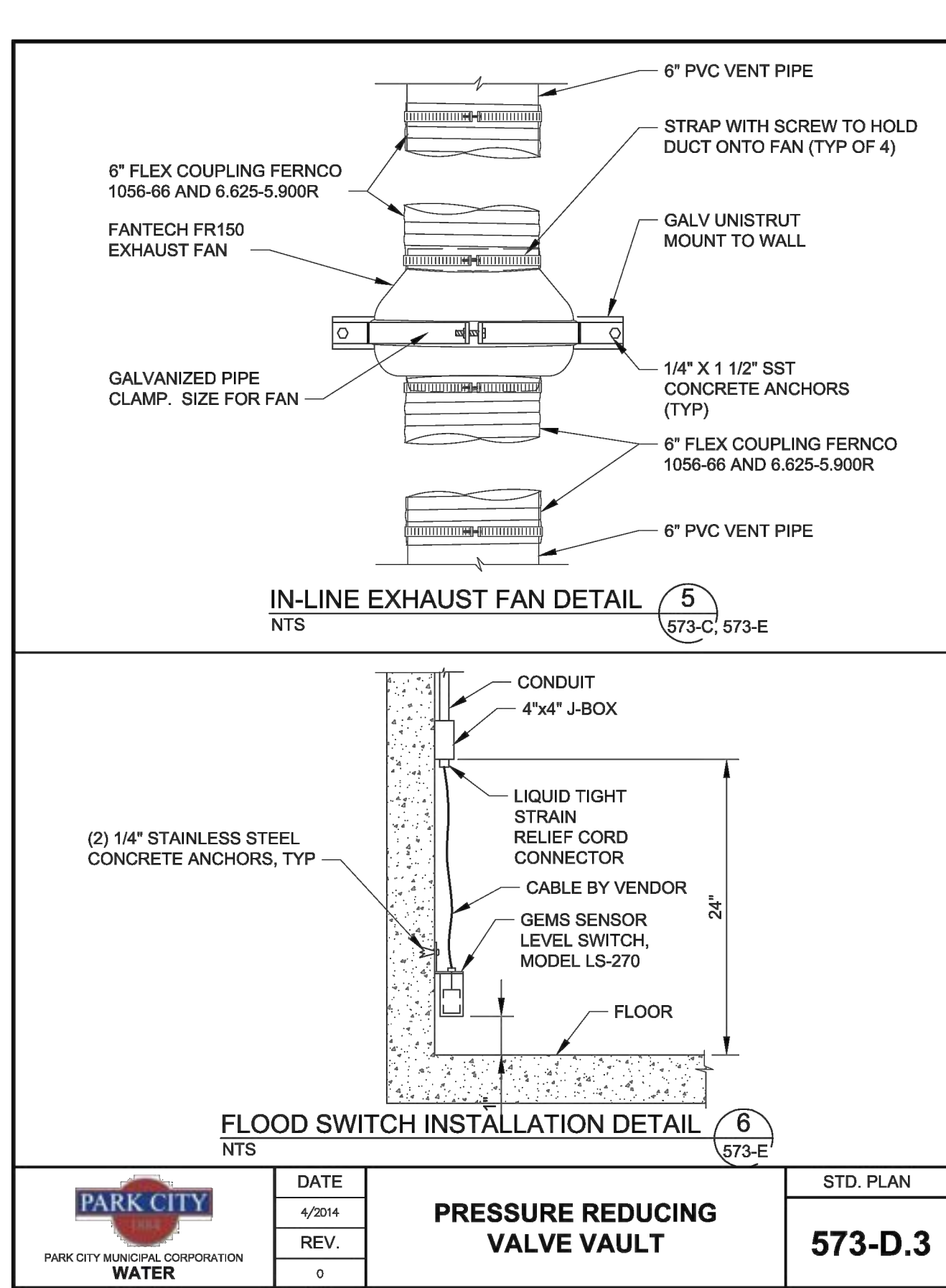
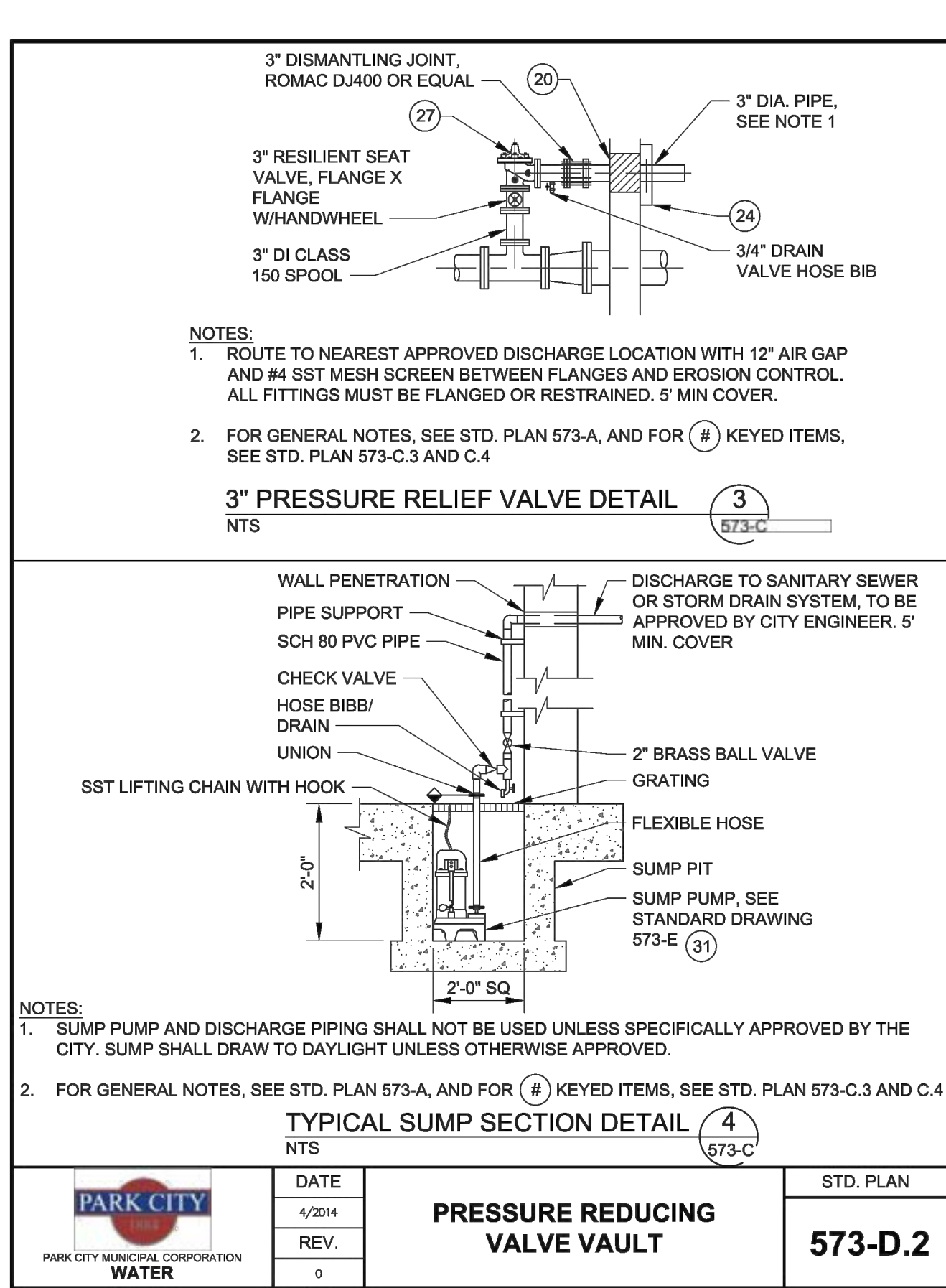
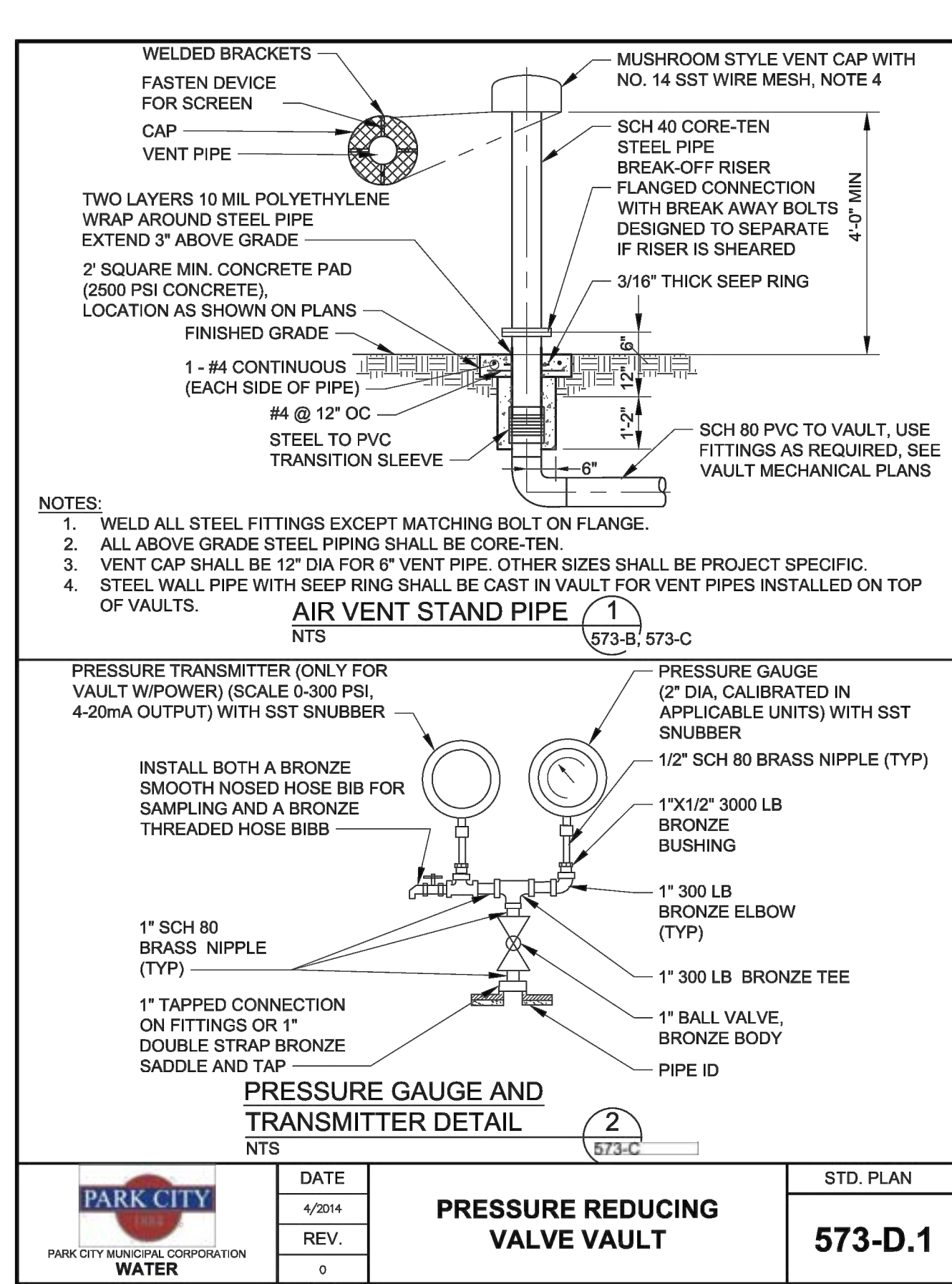
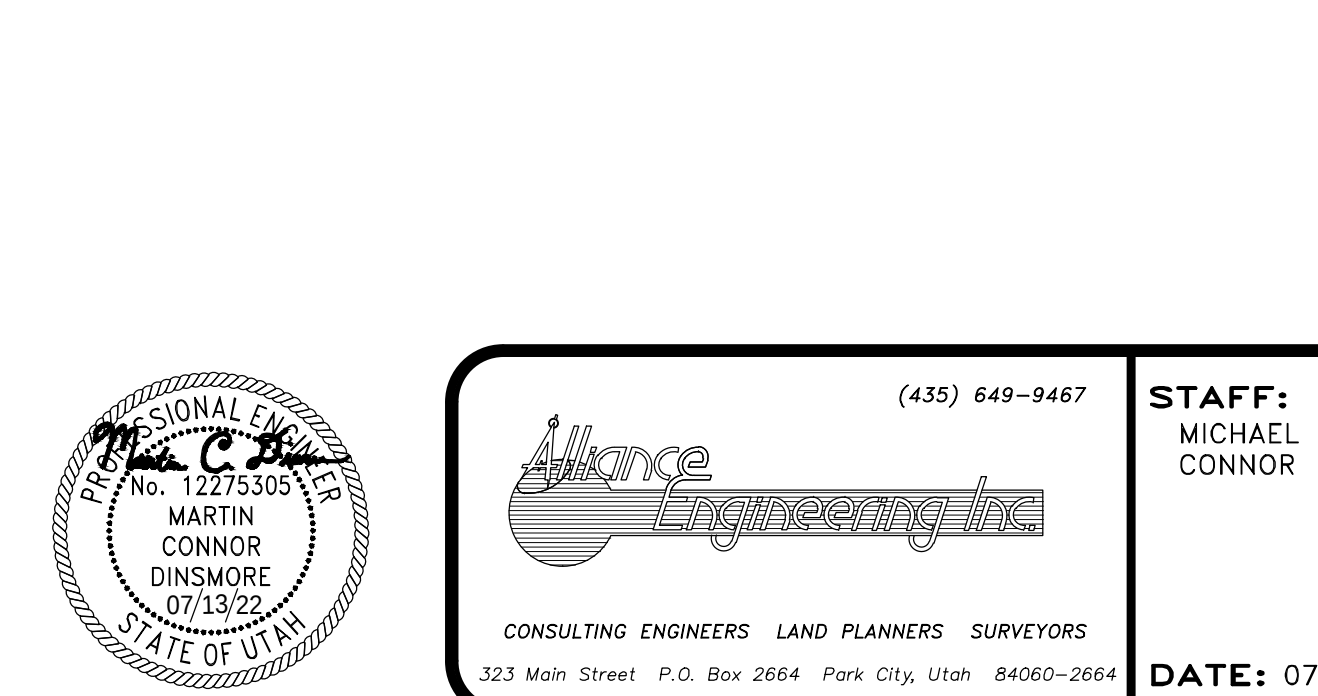
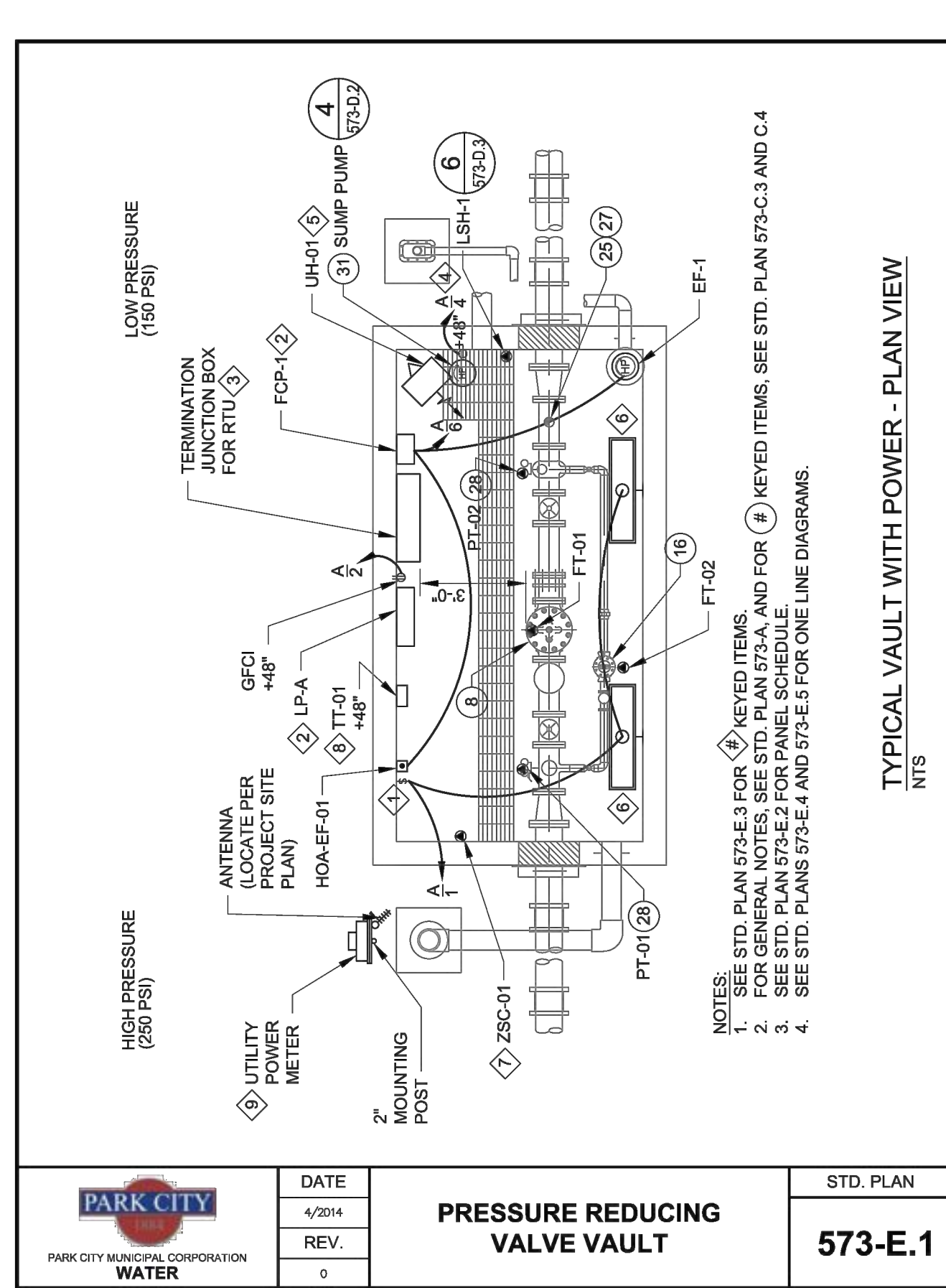
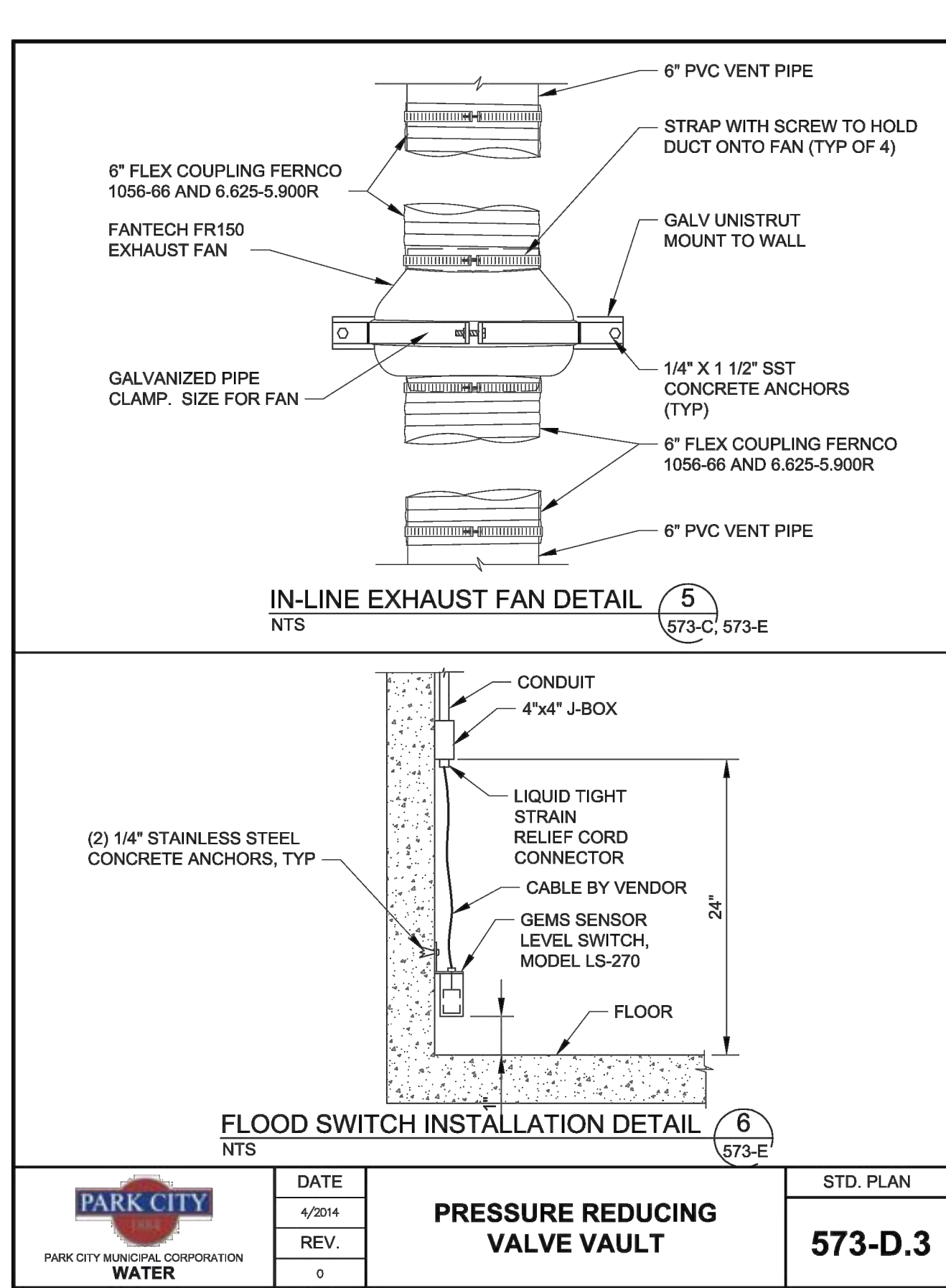
REV _____

FOR CITY OF PARK CITY, UTAH
WATER

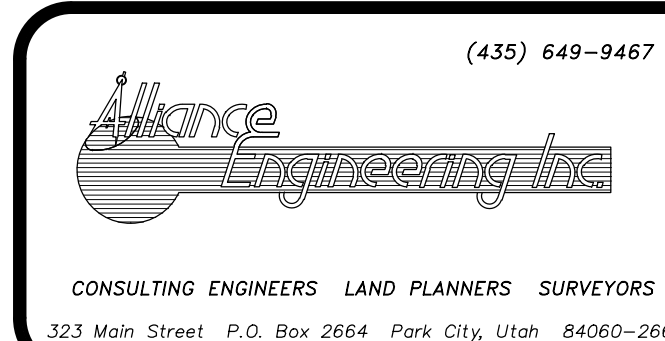
PRESSURE REDUCING

STD. PLAN _____

573-C.4

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1. PCMC PRV details provided are for reference only. A PRV with higher pressure capacity is required along with a surge protection valve.



BUILDING PERMIT SET DETAILS 4/4 SOMMET BLANC DEVELOPMENT FOR: SOMMET BLANC RESIDENCES I, LLC JOB NO.: 1-11-18 FILE: X:\Empire\dwa\B2_East_Design\B2_East-Civil.dwg	SHEET C.20
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