

NEW CONSTRUCTION OF CP210981 - NEW INDOOR PRACTICE FACILITY

UNIVERSITY OF MISSOURI - COLUMBIA, FOR THE CURATORS OF THE UNIVERSITY OF MISSOURI

Issued information
BID DOCUMENTS

07/13/2021



300 West 22nd Street
Kansas City, MO 64108 USA
t+1 816 472 3360 f+1 816 472 2100



SHEET NUMBER	DRAWING DESCRIPTION	SHEET NUMBER	DRAWING DESCRIPTION
G001	GENERAL	FA001	FIRE PROTECTION
G101	LIFE SAFETY CODE ANALYSIS	FA101	FIRE ALARM LEGEND & DETAILS
G102	LIFE SAFETY FLOOR PLAN - LEVEL 1	FA102	FIRE ALARM FLOOR PLAN - LEVEL 1
G103	LIFE SAFETY FLOOR PLAN - LEVEL 2	FA103	FIRE ALARM FLOOR PLAN - LEVEL 2
G110	LIFE SAFETY FLOOR PLAN - LEVEL 3	FA104	FIRE ALARM FLOOR PLAN - LEVEL 3
SUR1	VARIOUS	FP001	FIRE PROTECTION FLOOR PLANS
SUR2	SURVEY - 1	FP101	FIRE PROTECTION LEGEND & DETAILS
SUR3	SURVEY - 2	FP102	FIRE PROTECTION FLOOR PLAN - LEVEL 1
SUR4	SURVEY - 3	FP103	FIRE PROTECTION FLOOR PLAN - LEVEL 2
SUR5	SURVEY - 4	FP104	FIRE PROTECTION FLOOR PLAN - LEVEL 3
SUR6	SURVEY - 5	FP105	FIRE PROTECTION ENLARGED FLOOR PLANS
SUR7	SURVEY - 6	PO00	PLUMBING
C051	CIVIL	P101	PLUMBING GENERAL NOTES AND LEGEND
C052	EROSION CONTROL PLAN - 1 BASE BID	P102	PLUMBING WASTE & VENT LEVEL 1 PLAN
C053	EROSION CONTROL DETAILS - 1	P103	PLUMBING WASTE & VENT LEVEL 2 PLAN
C071	SITE STAGING AND LAYDOWN PLAN - 1	P104	PLUMBING ROOF PLAN
C101	SITE DEMOLITION PLAN - 1	P201	PLUMBING WATER & GAS LEVEL 1 PLAN
C102	SITE DEMOLITION PLAN - 2 ALTERNATE LOT G	P202	PLUMBING WATER & GAS LEVEL 2 PLAN
C211	SITE DIMENSION PLAN - 1 BASE BID	P301	PLUMBING WATER & GAS LEVEL 3 PLAN
C212	SITE DIMENSION PLAN - 2 ALTERNATE LOT G	P400	PLUMBING RISER DIAGRAMS
C221	WALL & C PROFILES	P401	PLUMBING WASTE & VENT - ENLARGED PLANS
C222	WALL & C PROFILES - 1	P402	PLUMBING WATER & GAS - ENLARGED PLANS
C223	WALL & C PROFILES - 2	P500	PLUMBING SCHEDULES & GAS RISER DIAGRAM
C224	WALL & C PROFILES - 3	P600	PLUMBING DETAILS
C301	RETAINING WALL SECTIONS	M000	MECHANICAL
C302	RETAINING WALL SECTIONS - 1	M100	MECHANICAL GENERAL NOTES AND LEGEND
C303	RETAINING WALL SECTIONS - 2	M101	HVAC LEVEL 1 PLAN - OVERALL
C304	RETAINING WALL SECTIONS - 3	M102	HVAC LEVEL 2 PLAN - OVERALL
C305	RETAINING WALL SECTIONS - 4	M103	HVAC LEVEL 3 PLAN - OVERALL
C306	RETAINING WALL SECTIONS - 5	M300	MECHANICAL DETAILS
C307	RETAINING WALL SECTIONS - 6	M411	HVAC - ENLARGED PLANS
C308	RETAINING WALL SECTIONS - 7 ALTERNATE LOT G	M412	HVAC - ENLARGED PLANS
C311	RETAINING WALL SECTIONS - 8 ALTERNATE LOT G	M500	MECHANICAL SCHEDULES
C411	SITE UTILITY PLAN - 1	M501	MECHANICAL CONTROLS
C412	SITE UTILITY PLAN - 2	M601	MECHANICAL CONTROLS
C413	STORM SEWER PROFILES - 1	M602	MECHANICAL CONTROLS
C414	STORM SEWER PROFILES - 2	E000	ELECTRICAL
C415	STORM SEWER PROFILES - 3 ALTERNATE LOT G	E001	ELECTRICAL GENERAL NOTES AND LEGEND
C421	DRAINAGE MAP - EXISTING CONDITIONS	E002	ELECTRICAL SITE LIGHTING PLAN
C422	DRAINAGE MAP - PROPOSED CONDITIONS	E003	ELECTRICAL SITE POWER PLAN
C423	DRAINAGE MAP - PROPOSED CONDITIONS - ALTERNATE LOT G	E101	LIGHTING LEVEL 1 RCP - OVERALL
C431	WATER MAIN PROFILES - 1	E102	LIGHTING LEVEL 2 RCP - OVERALL
C432	WATER MAIN PROFILES - 2	E103	LIGHTING LEVEL 3 RCP - OVERALL
C433	WATER MAIN PROFILES - 3	E201	POWER LEVEL 1 PLAN - OVERALL
C434	WATER MAIN PROFILES - 4	E202	POWER LEVEL 2 PLAN - OVERALL
C501	TELECOMMUNICATIONS PROFILES - 1	E203	POWER LEVEL 3 PLAN - OVERALL
C502	TELECOMMUNICATIONS PROFILES - 2	E411	POWER - ENLARGED PLANS
C503	TELECOMMUNICATIONS PROFILES - 3	E412	POWER - ENLARGED PLANS
C504	TELECOMMUNICATIONS PROFILES - 4	E421	POWER - ENLARGED PLANS
C505	TELECOMMUNICATIONS PROFILES - 5	E422	POWER - ENLARGED PLANS
C511	TELECOMMUNICATIONS PROFILES - 6	E431	EQUIPMENT CONNECTION - ENLARGED PLANS
L001	LANDSCAPE	E432	EQUIPMENT CONNECTION - ENLARGED PLANS
L002	LANDSCAPE - 1	E600	ELECTRICAL ONE-LINE DIAGRAM
L100	LANDSCAPE PLAN (FOR REFERENCE ONLY - N.I.C.)	E601	ELECTRICAL ONE-LINE DIAGRAM - ALT
L101	LANDSCAPE PLAN (FOR REFERENCE ONLY - N.I.C.)	E602	PANBOARD SCHEDULES
L102	LANDSCAPE PLAN (FOR REFERENCE ONLY - N.I.C.)	E603	PANBOARD SCHEDULES
L103	LANDSCAPE PLAN (FOR REFERENCE ONLY - N.I.C.)	E700	LIGHT FIXTURE SCHEDULE
L200	LANDSCAPE PLAN (FOR REFERENCE ONLY - N.I.C.)	E701	LIGHTING CONTROL DETAILS
L300	LANDSCAPE PLAN (FOR REFERENCE ONLY - N.I.C.)	T001	AUDIO / VISUAL
L301	LANDSCAPE PLAN (FOR REFERENCE ONLY - N.I.C.)	T002	TECHNOLOGY RESPONSIBILITY MATRIX
L302	LANDSCAPE PLAN (FOR REFERENCE ONLY - N.I.C.)	T003	TECHNOLOGY RESPONSIBILITY MATRIX
IR100	IRRIGATION	T004	AUDIO-VIDEO GENERAL NOTES AND LEGEND
IR101	IRRIGATION PLAN - SITE	T005	AUDIO-VIDEO REQUIREMENTS
IR102	IRRIGATION PLAN - NORTH ENLARGEMENT	T006	BROADCAST SITE PLAN
IR103	IRRIGATION PLAN - SOUTH ENLARGEMENT	T007	AUDIO-VIDEO LEVEL 1 PLAN - OVERALL
IR104	IRRIGATION SCHEDULES, NOTES AND INSTALLATION DETAILS	T008	AUDIO-VIDEO LEVEL 2 PLAN - OVERALL
IR105	IRRIGATION INSTALLATION DETAILS	T009	AUDIO-VIDEO LEVEL 3 RCP - OVERALL
S001	GENERAL NOTES	T010	AUDIO-VIDEO LEVEL 4 RCP - OVERALL
S002	GENERAL NOTES	T011	AUDIO-VIDEO LEVEL 5 RCP - OVERALL
S003	GENERAL NOTES	T012	AUDIO-VIDEO LEVEL 6 RCP - OVERALL
S004	GENERAL NOTES	T013	AUDIO-VIDEO LEVEL 7 RCP - OVERALL
S005	GENERAL NOTES	T014	AUDIO-VIDEO LEVEL 8 RCP - OVERALL
S006	GENERAL NOTES	T015	AUDIO-VIDEO LEVEL 9 RCP - OVERALL
S007	GENERAL NOTES	T016	AUDIO-VIDEO LEVEL 10 RCP - OVERALL
S008	GENERAL NOTES	T017	AUDIO-VIDEO LEVEL 11 RCP - OVERALL
S009	GENERAL NOTES	T018	AUDIO-VIDEO LEVEL 12 RCP - OVERALL
S010	GENERAL NOTES	T019	AUDIO-VIDEO LEVEL 13 RCP - OVERALL
S011	GENERAL NOTES	T020	AUDIO-VIDEO LEVEL 14 RCP - OVERALL
S012	GENERAL NOTES	T021	AUDIO-VIDEO LEVEL 15 RCP - OVERALL
S013	GENERAL NOTES	T022	AUDIO-VIDEO LEVEL 16 RCP - OVERALL
S014	GENERAL NOTES	T023	AUDIO-VIDEO LEVEL 17 RCP - OVERALL
S015	GENERAL NOTES	T024	AUDIO-VIDEO LEVEL 18 RCP - OVERALL
S016	GENERAL NOTES	T025	AUDIO-VIDEO LEVEL 19 RCP - OVERALL
S017	GENERAL NOTES	T026	AUDIO-VIDEO LEVEL 20 RCP - OVERALL
S018	GENERAL NOTES	T027	AUDIO-VIDEO LEVEL 21 RCP - OVERALL
S019	GENERAL NOTES	T028	AUDIO-VIDEO LEVEL 22 RCP - OVERALL
S020	GENERAL NOTES	T029	AUDIO-VIDEO LEVEL 23 RCP - OVERALL
S021	GENERAL NOTES	T030	AUDIO-VIDEO LEVEL 24 RCP - OVERALL
S022	GENERAL NOTES	T031	AUDIO-VIDEO LEVEL 25 RCP - OVERALL
S023	GENERAL NOTES	T032	AUDIO-VIDEO LEVEL 26 RCP - OVERALL
S024	GENERAL NOTES	T033	AUDIO-VIDEO LEVEL 27 RCP - OVERALL
S025	GENERAL NOTES	T034	AUDIO-VIDEO LEVEL 28 RCP - OVERALL
S026	GENERAL NOTES	T035	AUDIO-VIDEO LEVEL 29 RCP - OVERALL
S027	GENERAL NOTES	T036	AUDIO-VIDEO LEVEL 30 RCP - OVERALL
S028	GENERAL NOTES	T037	AUDIO-VIDEO LEVEL 31 RCP - OVERALL
S029	GENERAL NOTES	T038	AUDIO-VIDEO LEVEL 32 RCP - OVERALL
S030	GENERAL NOTES	T039	AUDIO-VIDEO LEVEL 33 RCP - OVERALL
S031	GENERAL NOTES	T040	AUDIO-VIDEO LEVEL 34 RCP - OVERALL
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S033	GENERAL NOTES	T042	AUDIO-VIDEO LEVEL 36 RCP - OVERALL
S034	GENERAL NOTES	T043	AUDIO-VIDEO LEVEL 37 RCP - OVERALL
S035	GENERAL NOTES	T044	AUDIO-VIDEO LEVEL 38 RCP - OVERALL
S036	GENERAL NOTES	T045	AUDIO-VIDEO LEVEL 39 RCP - OVERALL
S037	GENERAL NOTES	T046	AUDIO-VIDEO LEVEL 40 RCP - OVERALL
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S071	GENERAL NOTES	T080	AUDIO-VIDEO LEVEL 74 RCP - OVERALL
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S158	GENERAL NOTES	T167	AUDIO-VIDEO LEVEL 161 RCP - OVERALL
S159	GENERAL NOTES	T168	AUDIO-VIDEO LEVEL 162 RCP - OVERALL
S160	GENERAL NOTES	T169	AUDIO-VIDEO LEVEL 163 RCP - OVERALL
S161			



Project
CP210981 New Indoor
Practice Facility

THE UNIVERSITY OF
MISSOURI - COLUMBIA,
FOR THE CURATORS OF
THE UNIVERSITY OF
MISSOURI

1200 S. Providence Rd. Columbia, MO
65201



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t 913.722.3473

Structural:
THORNTON TOMASETTI
2323 Grand Blvd., Suite 900
Kansas City, Missouri 64108
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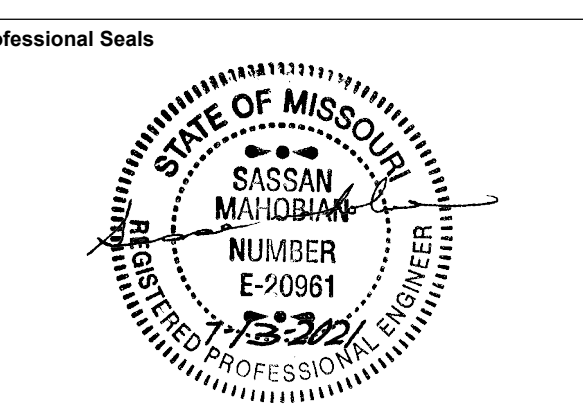
Mechanical / Electrical / Plumbing / AV / TELECOM /
SECURITY:
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Kansas City, MO 64108
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Overland Park, KS 66207
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Kansas City, MO 64108
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Irrigation:
Ecosystems
2612 SW Interregional Drive
Lee's Summit, MO 64081
m. 816.246.1082



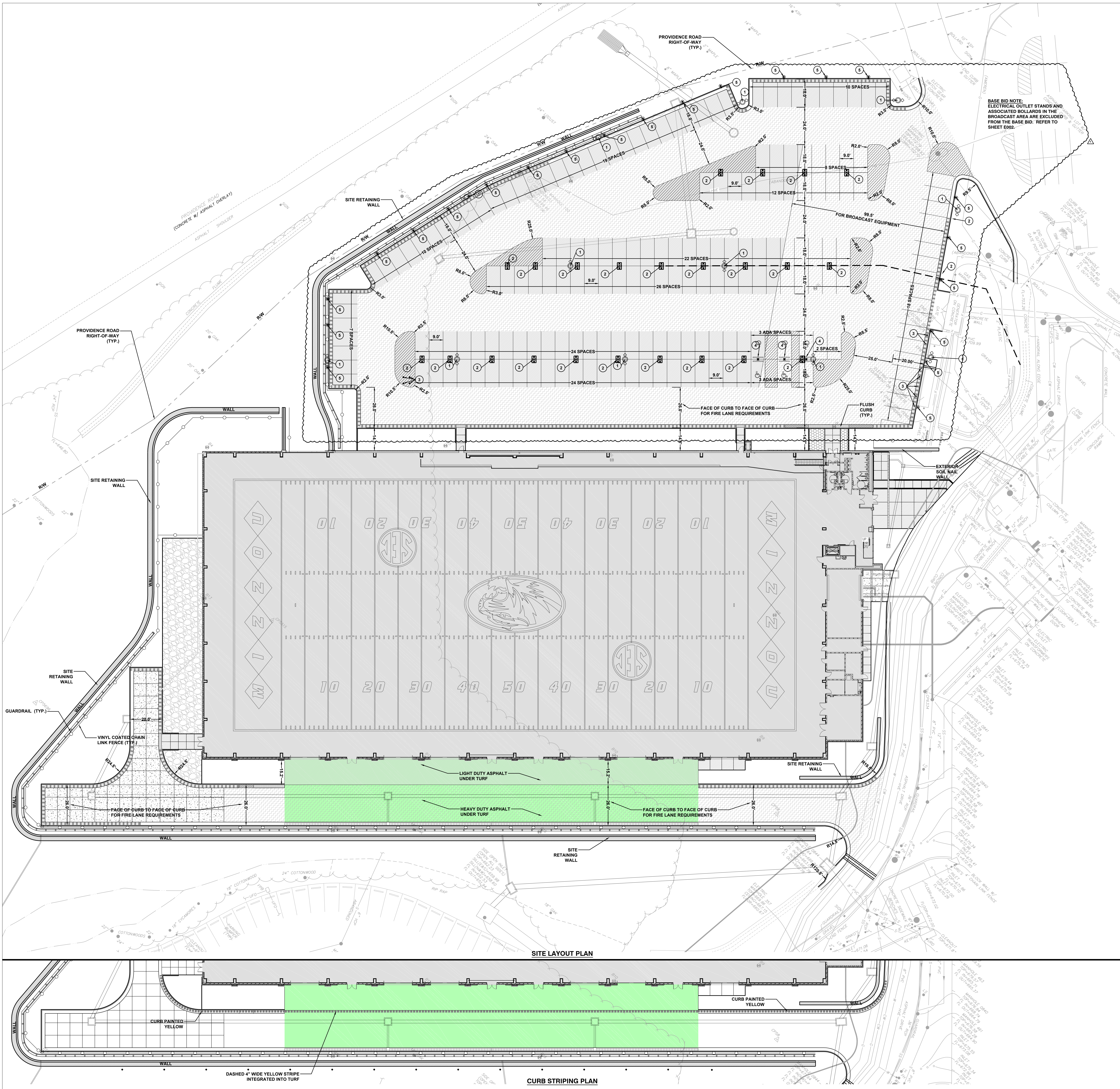
No.	Description	Date
1	ADDENDUM 01	7/23/2021

Issued For: BID DOCUMENTS
Issued Date: 07.13.2021
Project No.: 20.70064.00

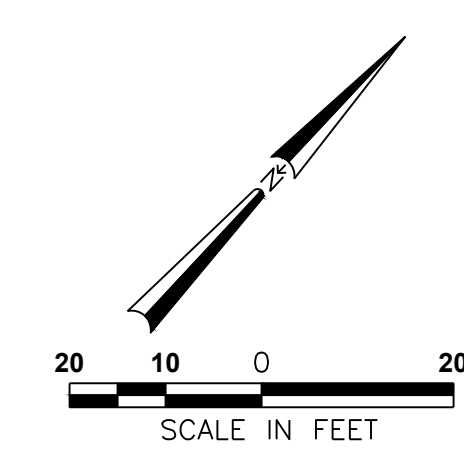
Sheet Title:
**SITE DIMENSION
PLAN - 1
BASE BID**

Original is 48" x 36". Do not scale contents of this drawing.

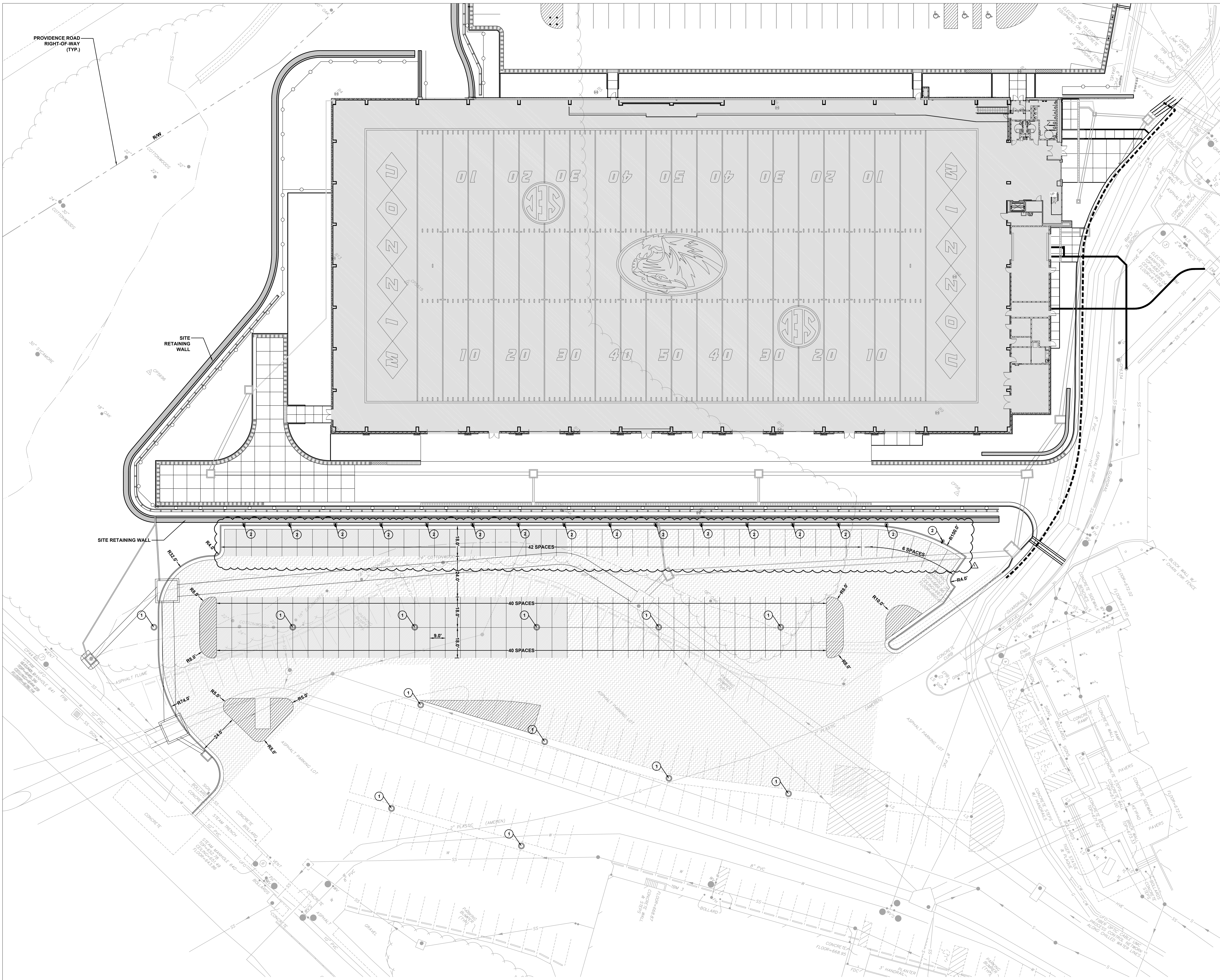
Sheet Number
C201



- LEGEND:**
- NEW LIGHT DUTY ASPHALT PAVEMENT RE: 5/C501
 - NEW HEAVY DUTY ASPHALT PAVEMENT RE: 4/C501
 - NEW PORTLAND CEMENT CONCRETE PAVEMENT RE: 1/C501
 - NEW GRAVEL PAVEMENT RE: 12/C502
 - CONCRETE SIDEWALK RE: 2/C501
 - CONCRETE PAVERS RE: LANDSCAPE
 - ARTIFICIAL TURF OVER ASPHALT PAVEMENT RE: LANDSCAPE
 - NEW CURB & GUTTER RE: 11/C504
 - NEW CURB & GUTTER (DRY) RE: 11/C504
 - NEW FLUSH CURB RE: 11/C504
 - CURB HEIGHT TRANSITION 6" HIGH TO 6" HIGH RE: 11/C504
 - RETAINING WALL RE: C503 & C220 SERIES
- 1 PARKING LOT LIGHT RE: E201
- 2 NEW ELECTRICAL OUTLET STAND, COORDINATE WITH ELECTRICAL FOR OUTLET. INSTALL STEEL BOLLARD WITH BLACK PLASTIC CAP EACH SIDE. RE: 7/C505
- 3 NEW ELECTRICAL OUTLET STAND, COORDINATE WITH ELECTRICAL FOR OUTLET. INSTALL STEEL BOLLARD (RE: 3/C501) WITH BLACK PLASTIC CAP.
- 4 INSTALL STEEL BOLLARD RE: 3/C501
- 5 AT ACCESSIBLE PARKING SPACES INSTALL 2 BUMPER BLOCKS RE: 8/C501 INSTALL 2 ACCESSIBLE SIGNS RE: 7/C501



U:\2020\20_141\2021_07_23_10\PCD Addendum 1\C201_20142Dimension plan.dwg



LEGEND:

- NEW LIGHT DUTY ASPHALT PAVEMENT
- NEW HEAVY DUTY ASPHALT PAVEMENT
- NEW CURB & GUTTER
- RETAINING WALL
- PARKING LOT LIGHT RE: E303
- NEW ELECTRICAL OUTLET STAND, COORDINATE WITH ELECTRICAL FOR OUTLET
- INSTALL STEEL BOLLARD (RE: 3C501) WITH BLACK PLASTIC CAP
- INSTALL STEEL BOLLARD RE: 3C501



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m. 816.221.7771

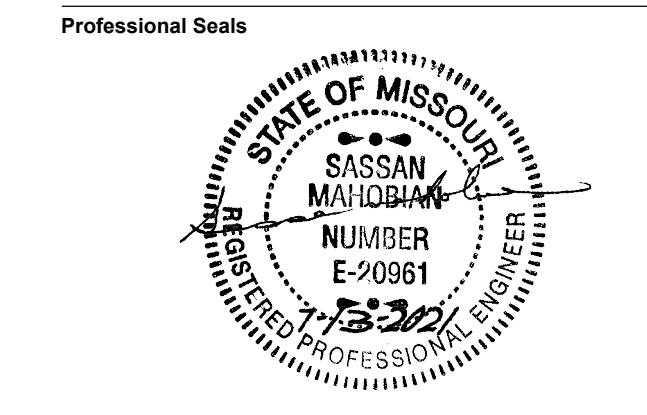
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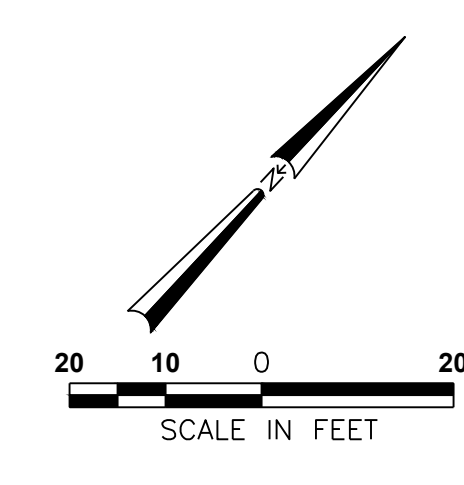
No.	Description	Date
1	ADDENDUM 01	7/23/2021

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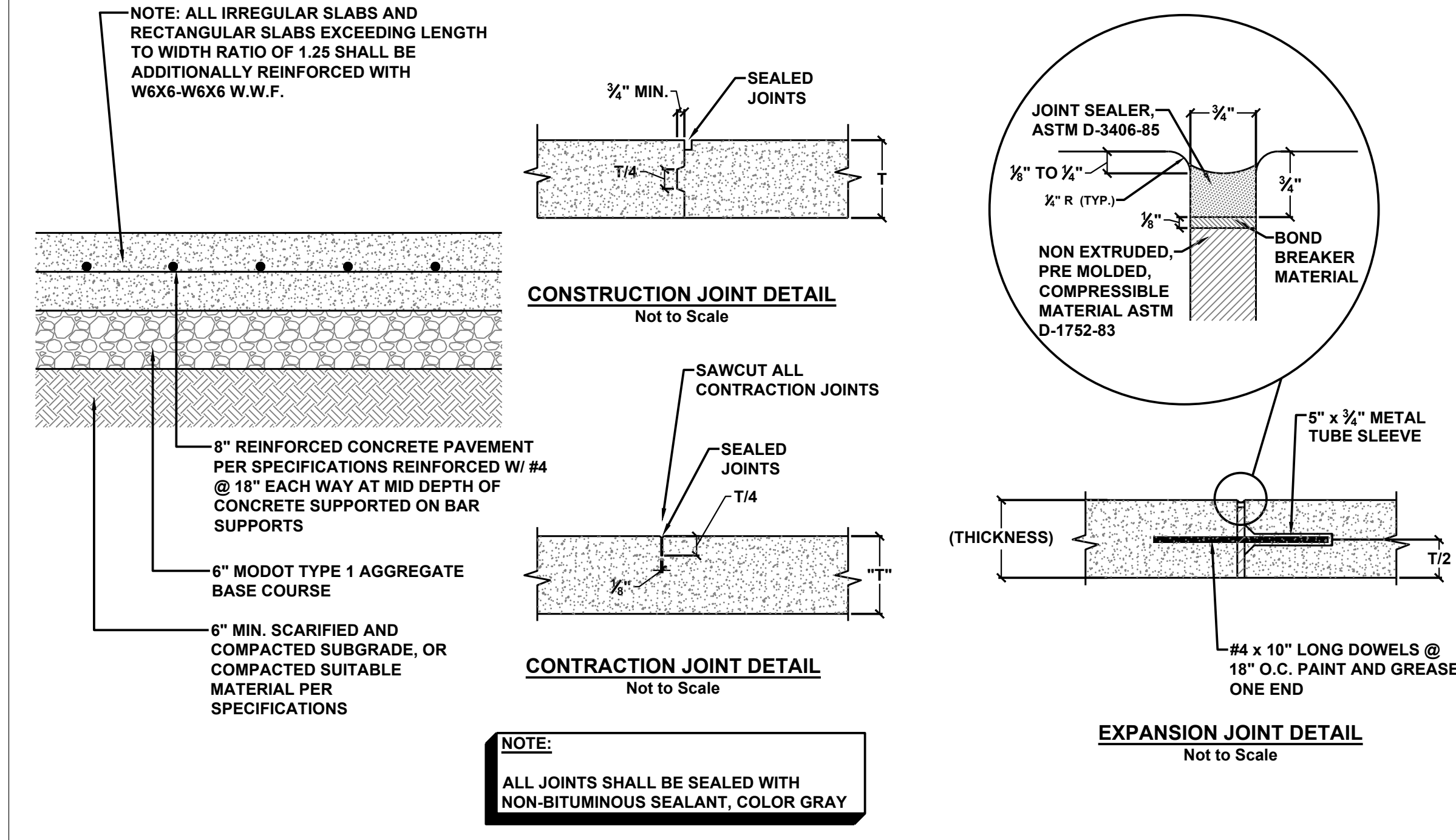
**SITE DIMENSION PLAN - 2
ALTERNATE LOT G**

Original is 48" x 36". Do not scale contents of this drawing.
Sheet Number

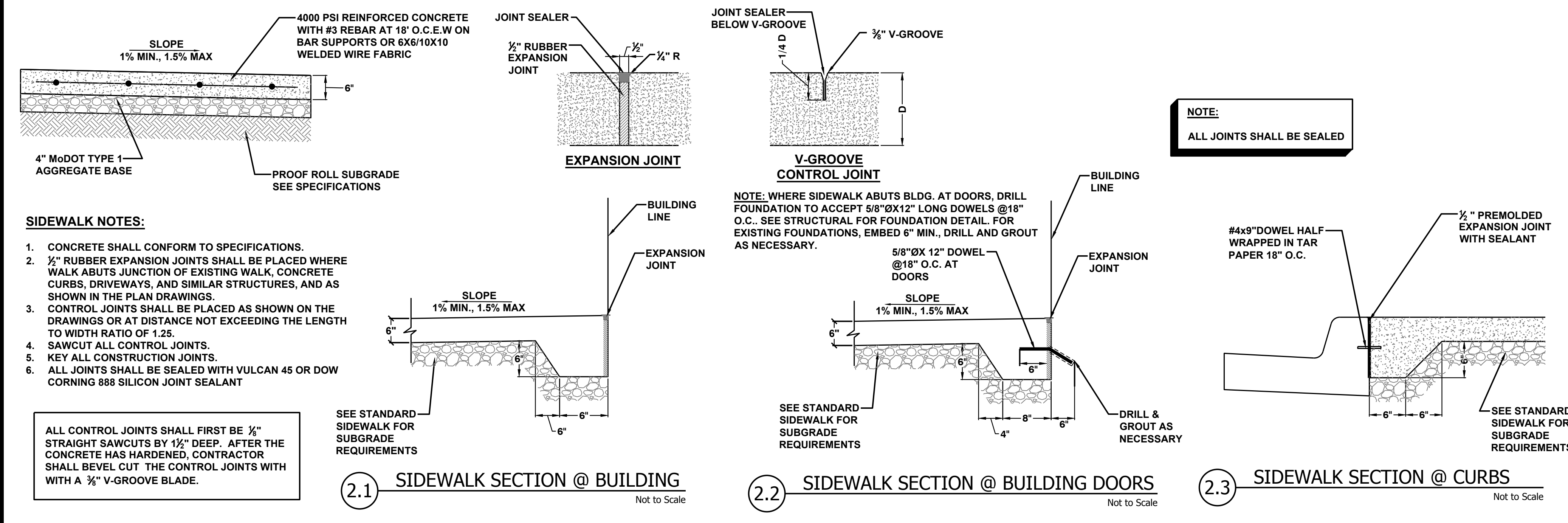
C212



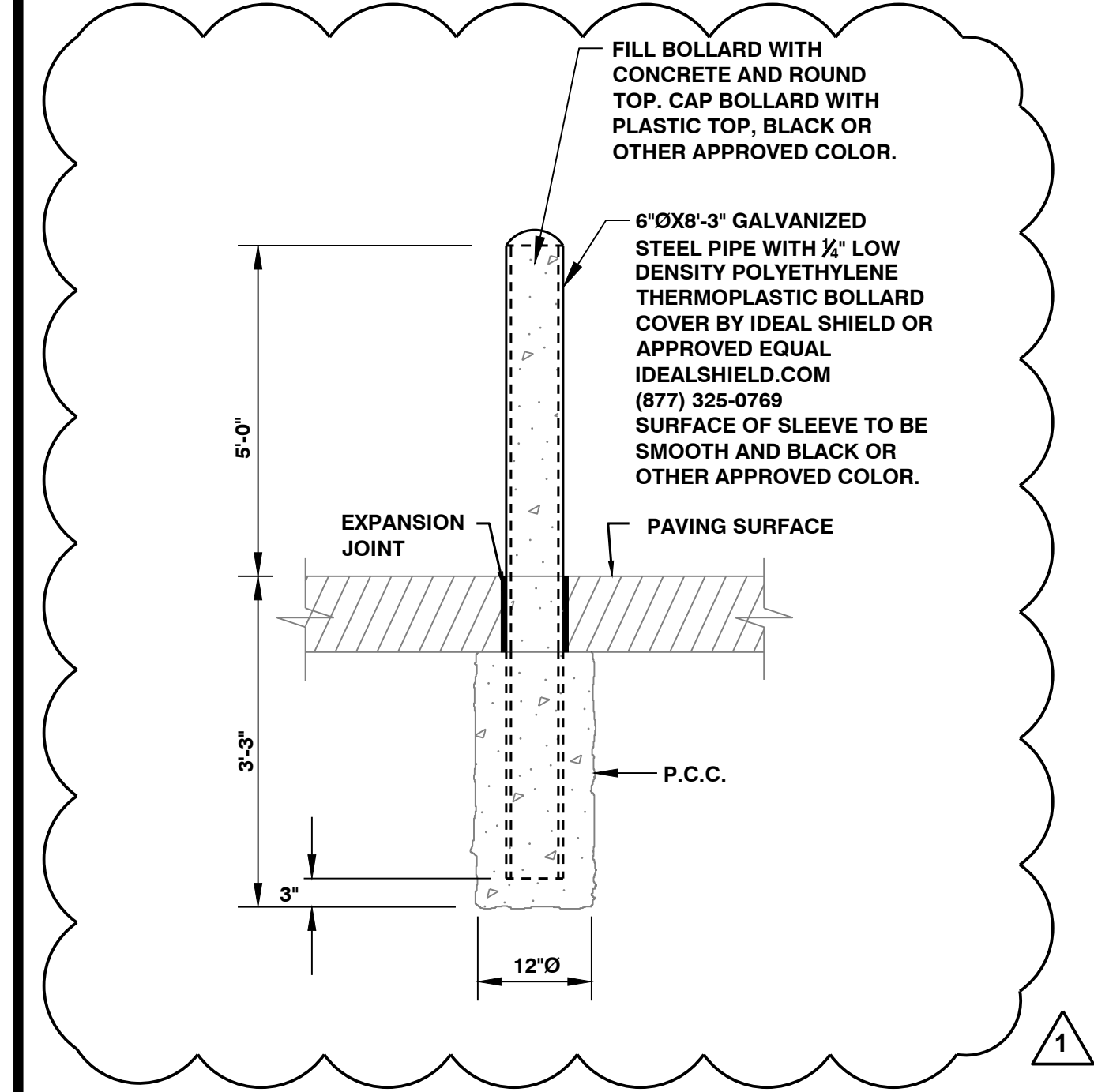
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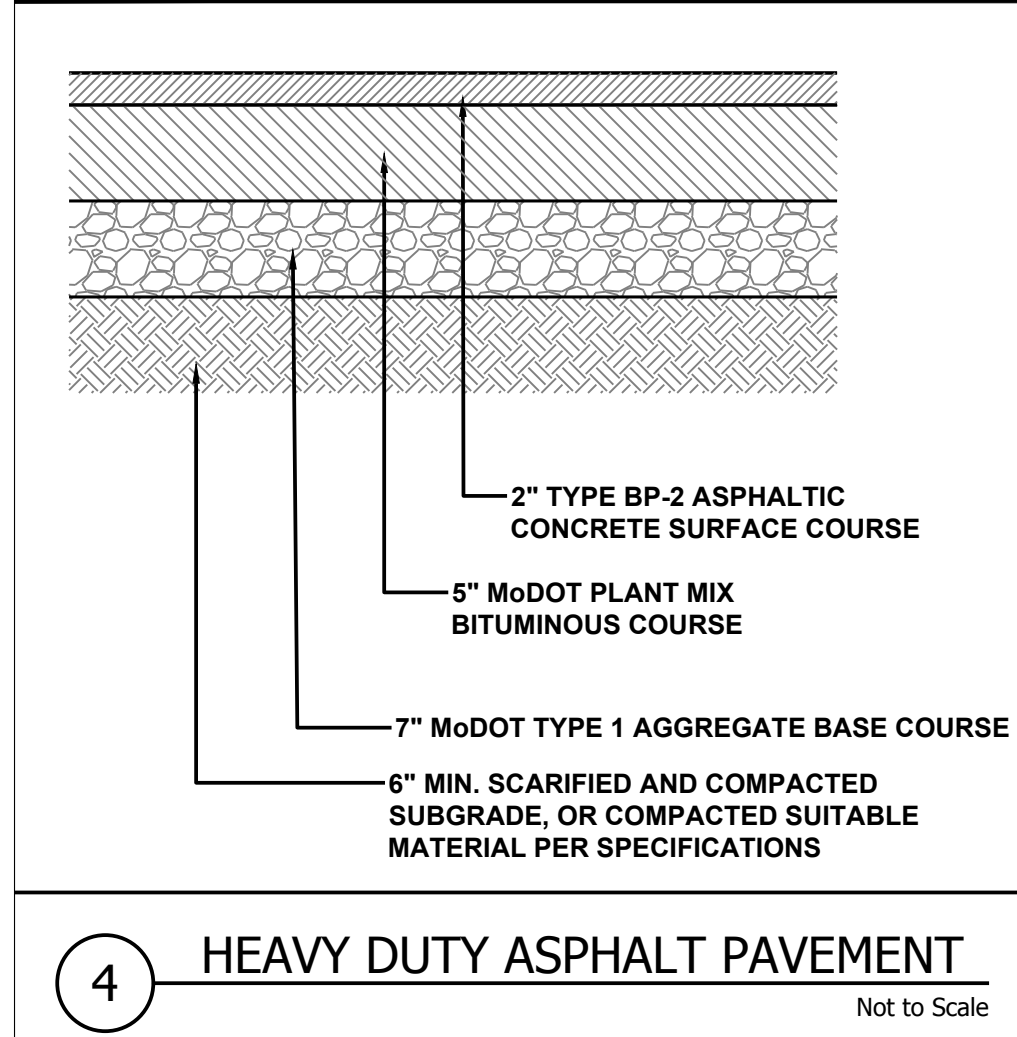
1 FULL DEPTH CONCRETE PAVEMENT DETAILS
Not to Scale



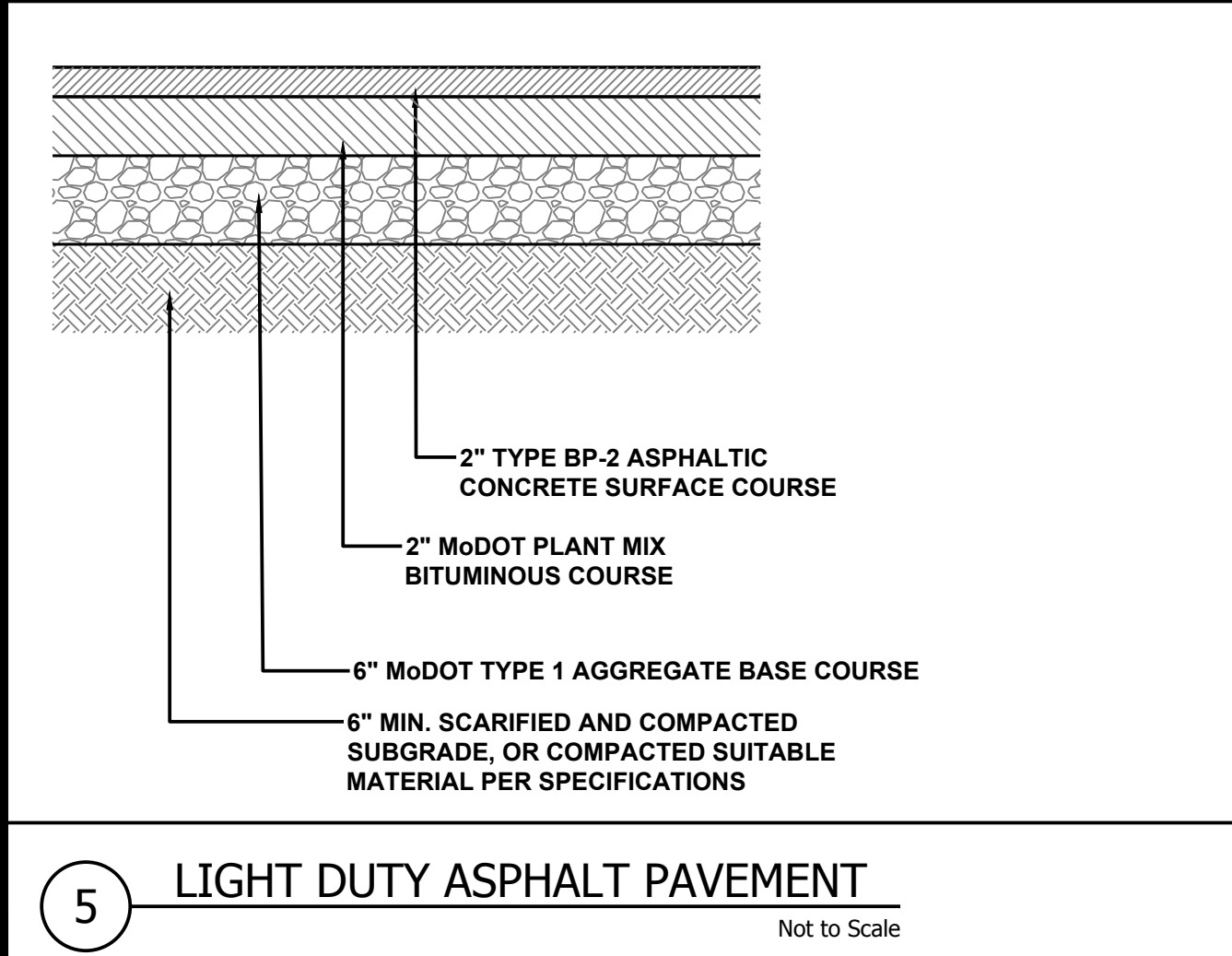
2 STANDARD SIDEWALK AND JOINT DETAILS
Not to Scale



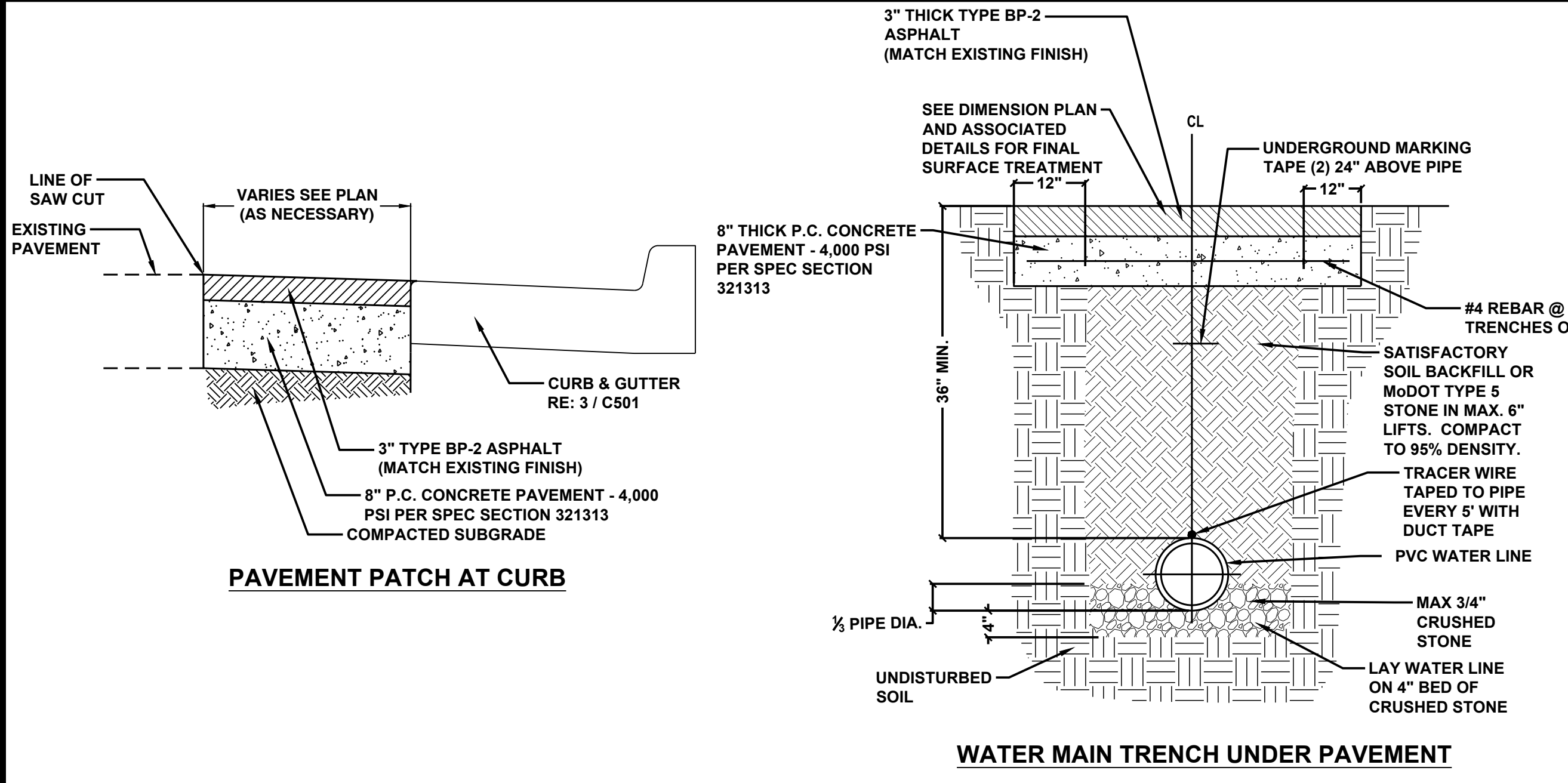
3 TYPICAL BOLLARD DETAIL
Not to Scale



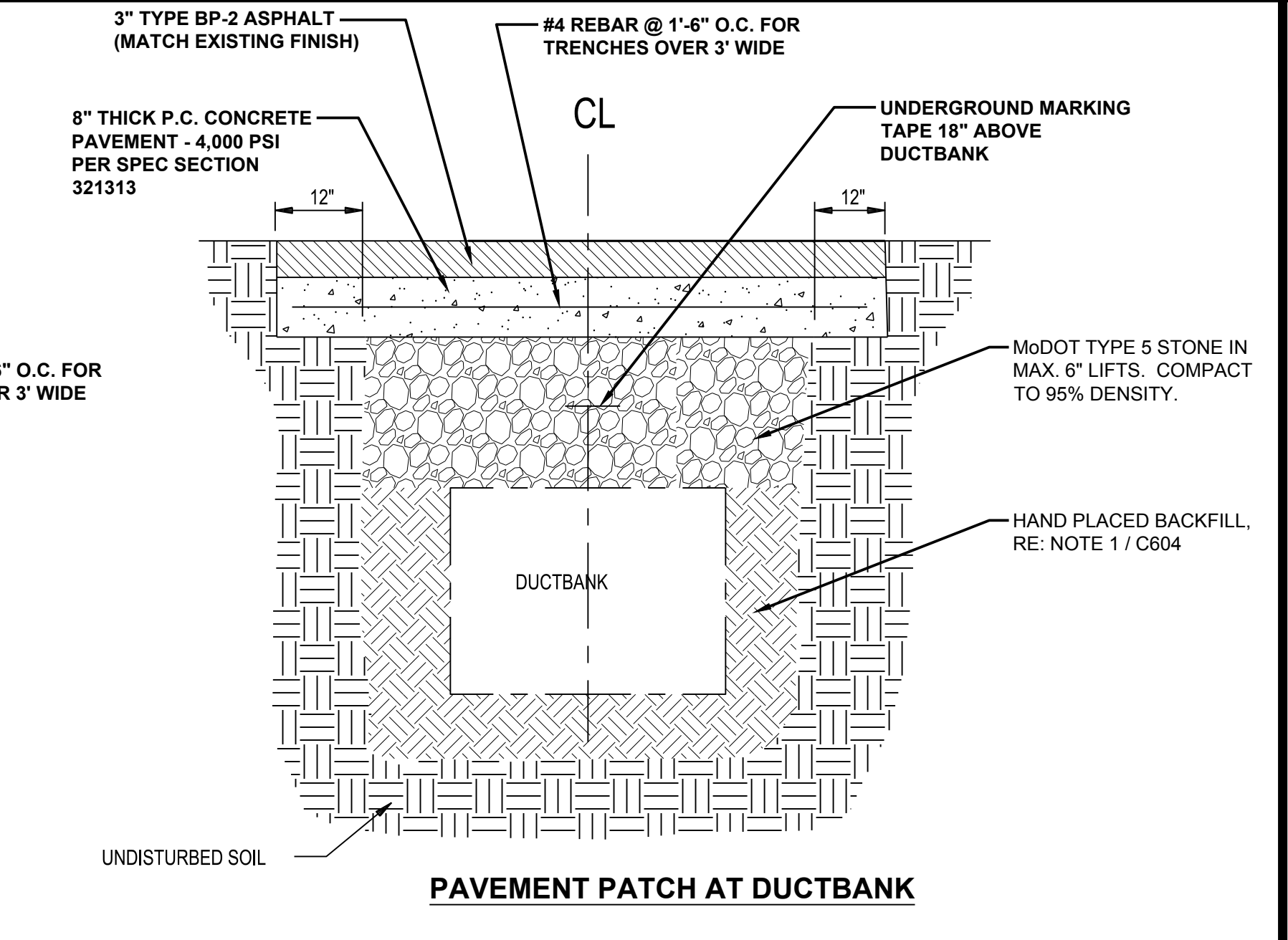
4 HEAVY DUTY ASPHALT PAVEMENT
Not to Scale



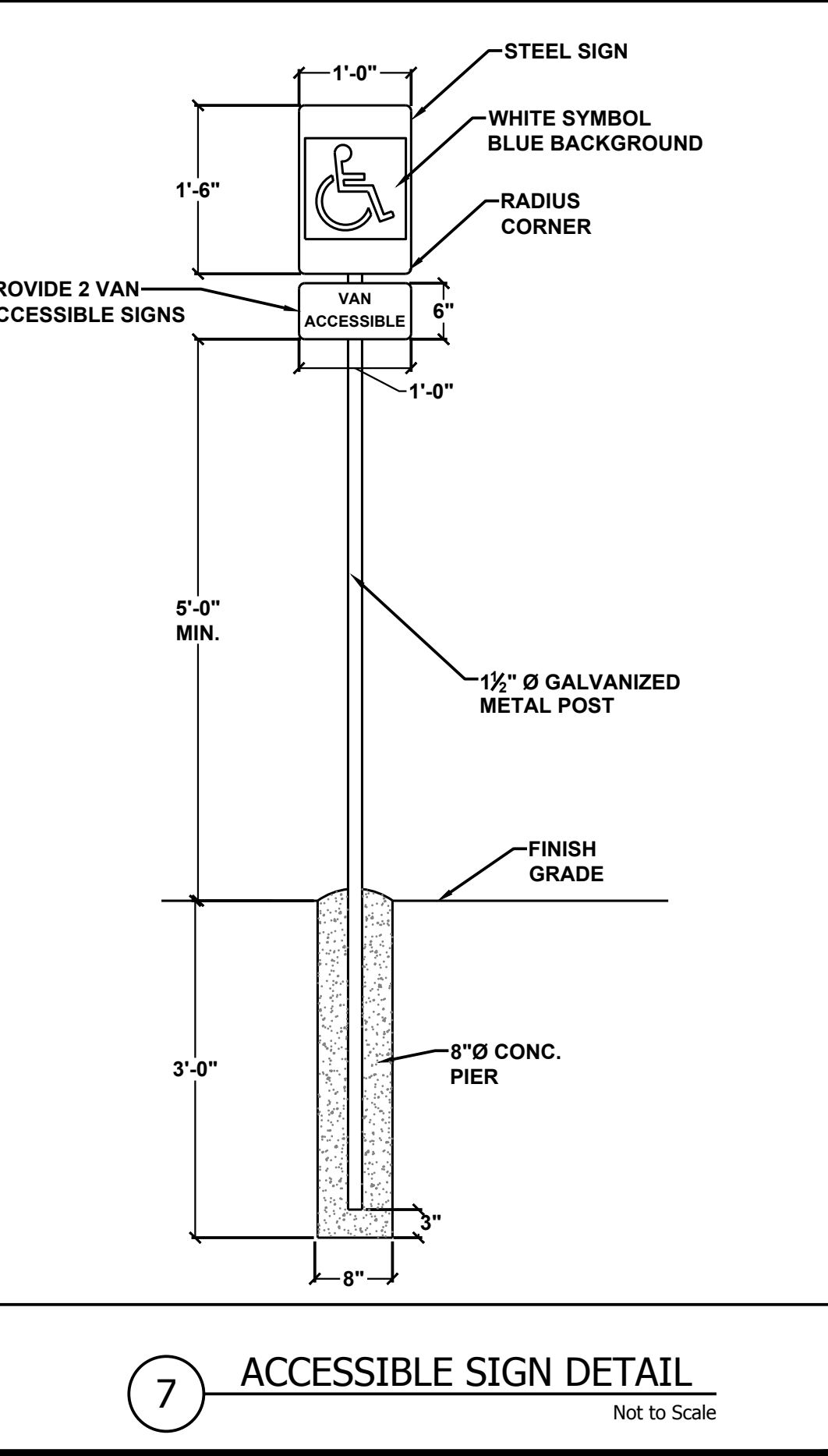
5 LIGHT DUTY ASPHALT PAVEMENT
Not to Scale



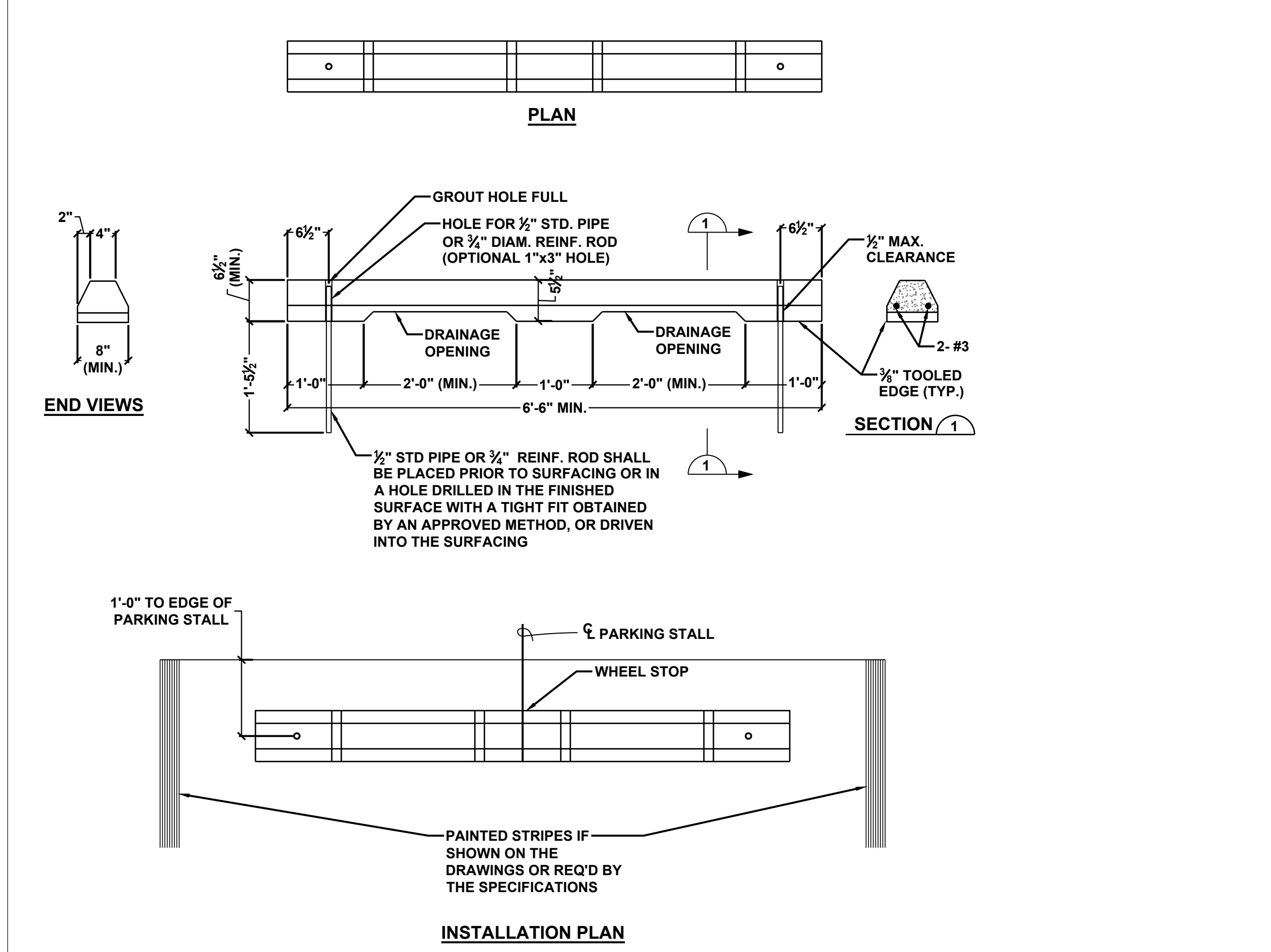
6 TYPICAL PAVEMENT PATCH DETAIL
Not to Scale



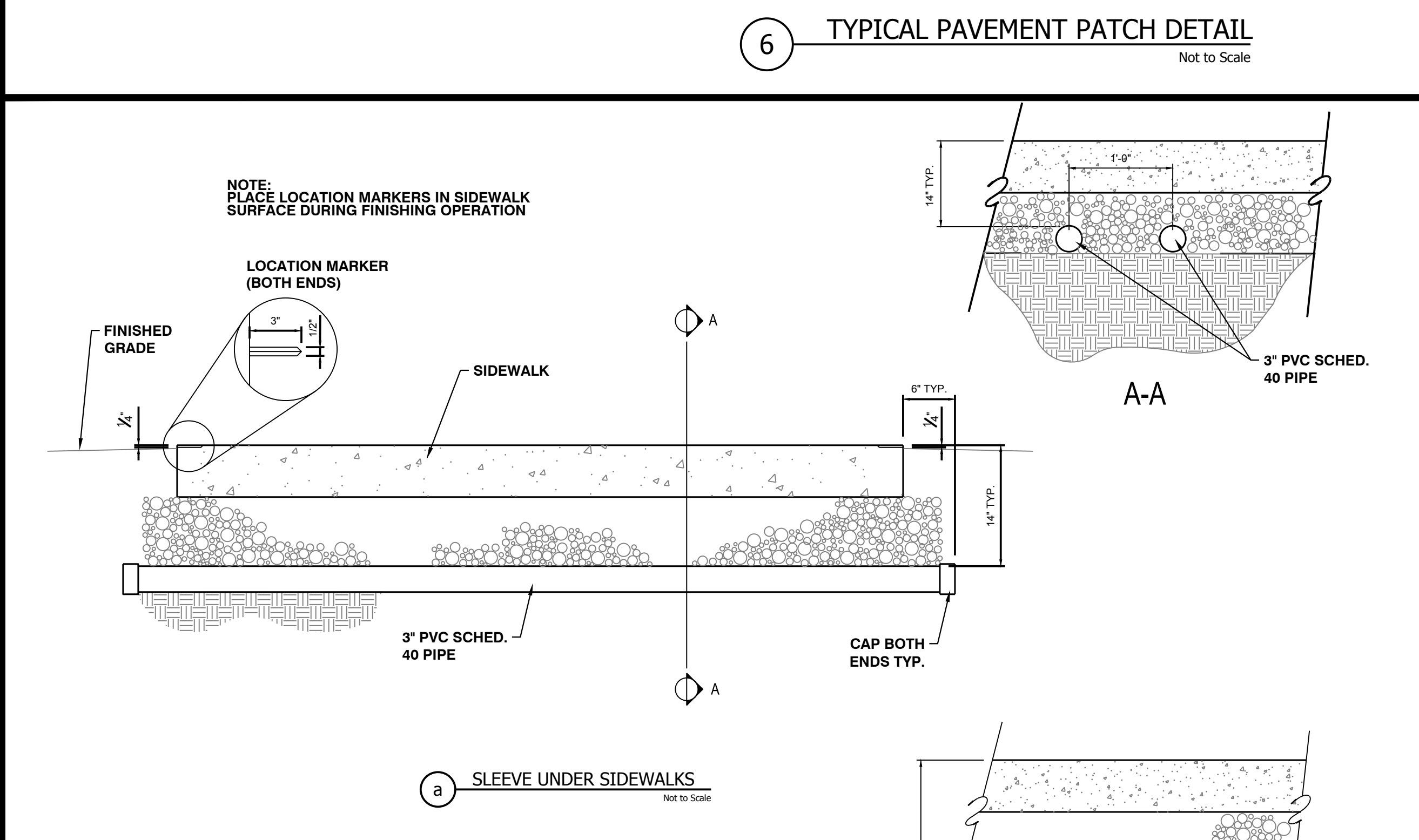
PAVEMENT PATCH AT DUCTBANK



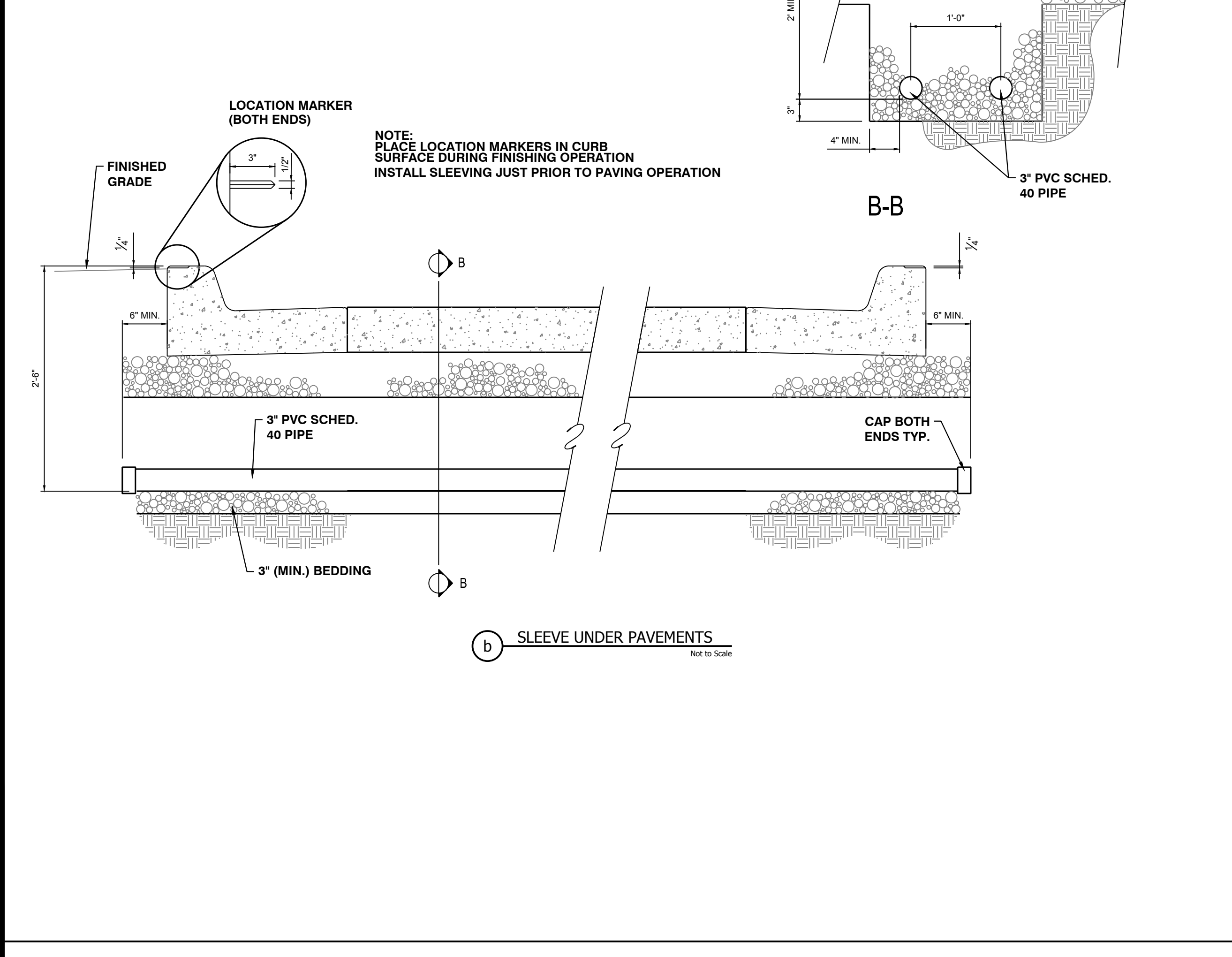
7 ACCESSIBLE SIGN DETAIL
Not to Scale



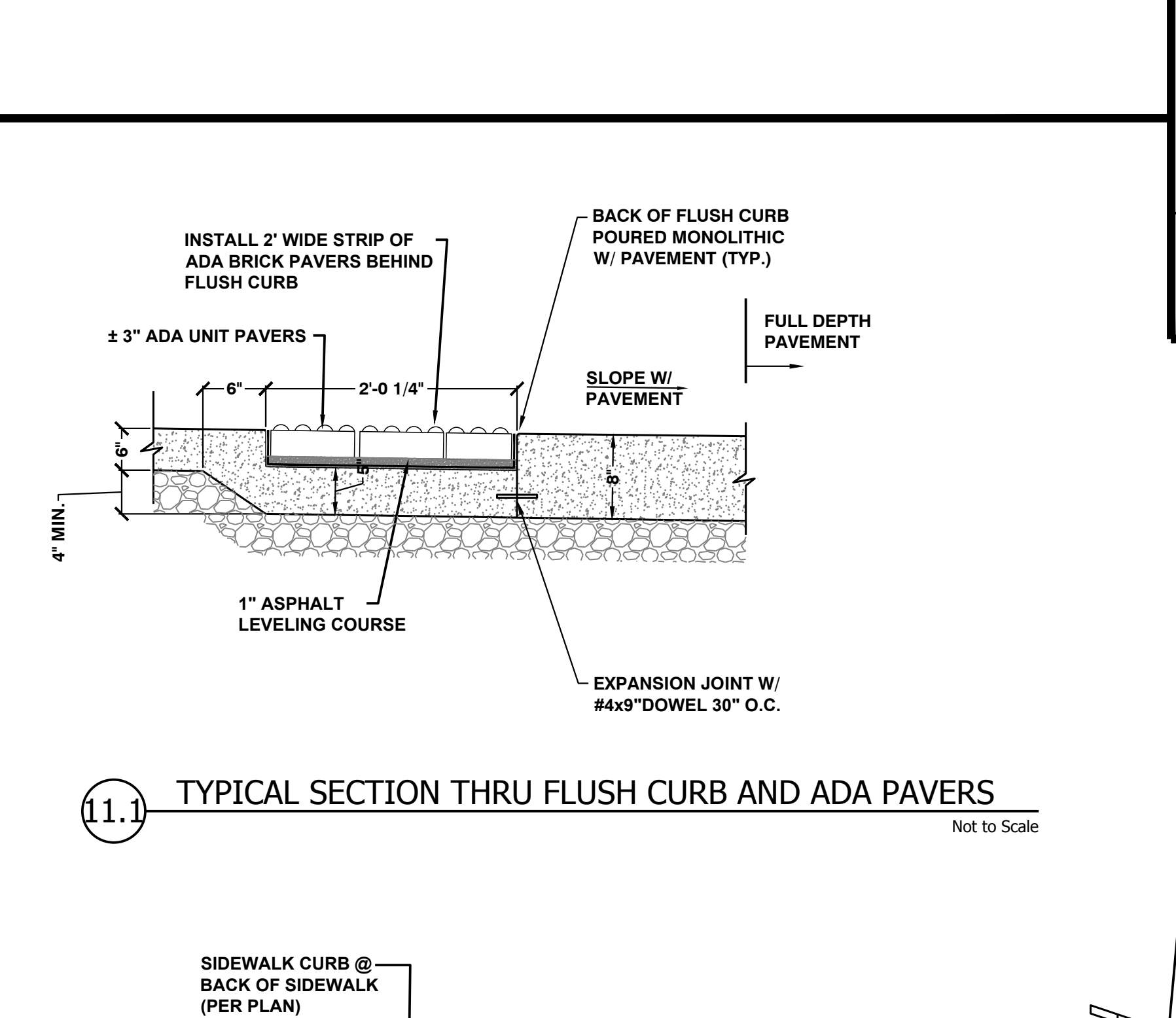
8 PRECAST CONCRETE WHEEL STOP DETAIL
Not to Scale



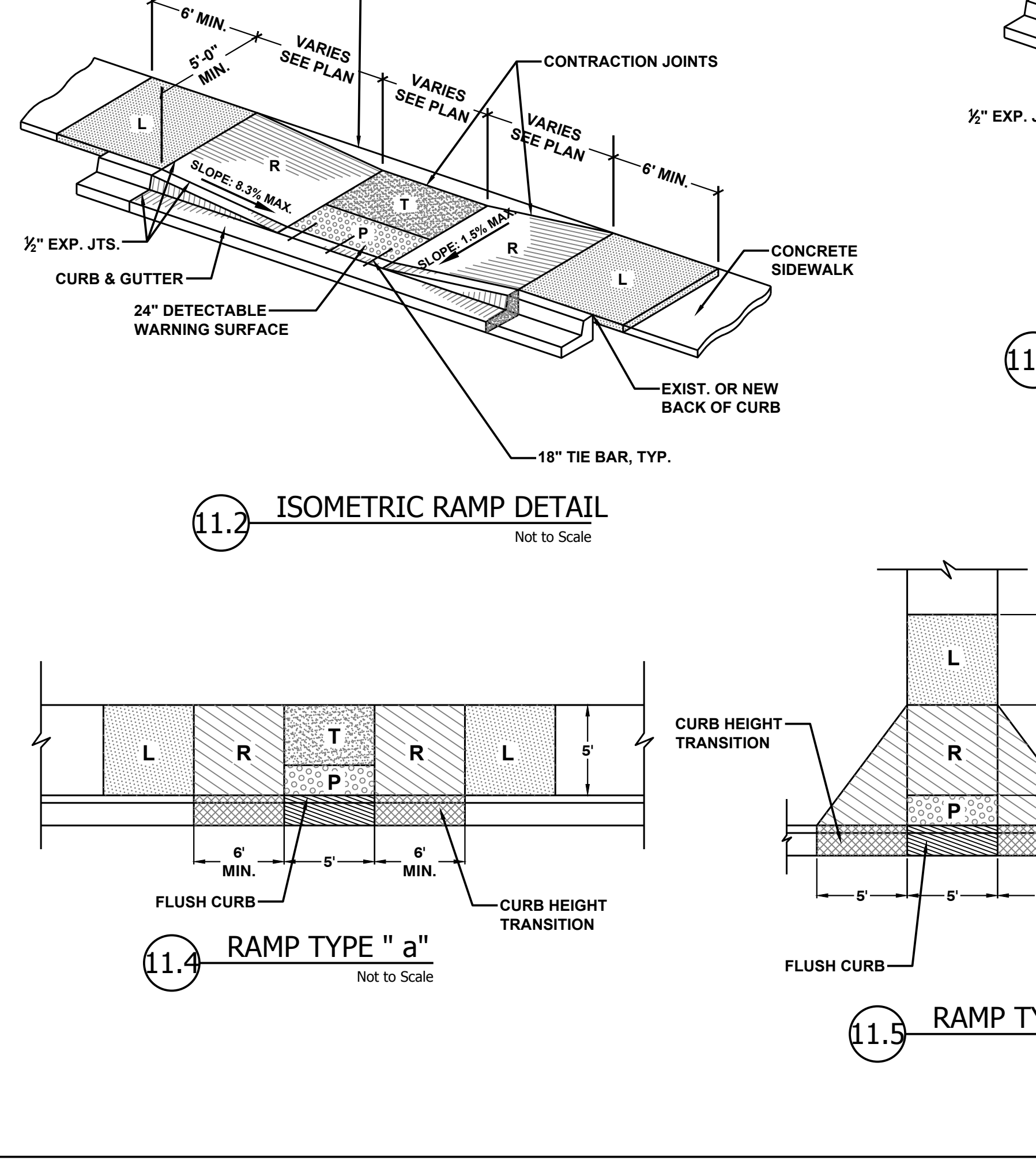
9 SLEEVE UNDER SIDEWALKS
Not to Scale



10 UTILITY SLEEVE DETAILS
Not to Scale



11.1 TYPICAL SECTION THRU FLUSH CURB AND ADA PAVERS
Not to Scale



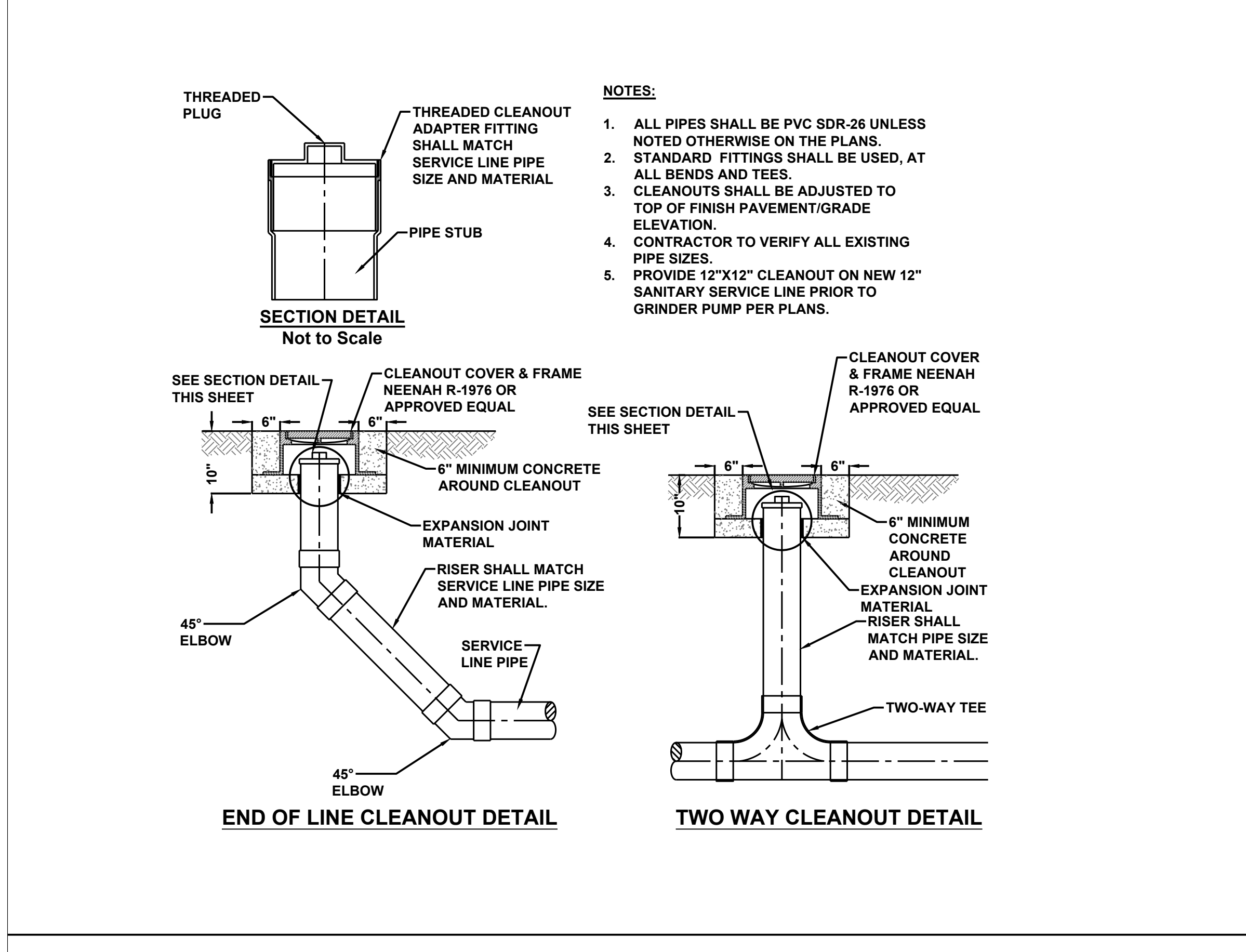
11.2 ISOMETRIC RAMP DETAIL
Not to Scale

11.4 RAMP TYPE \"/>

11.5 RAMP TYPE \"/>

11.6 RAMP TYPE \"/>

11 ACCESSIBLE RAMP DETAILS
Not to Scale



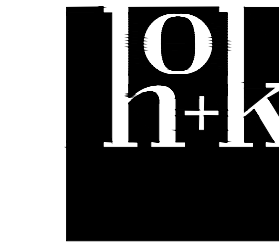
9 CLEANOUT DETAIL
Not to Scale



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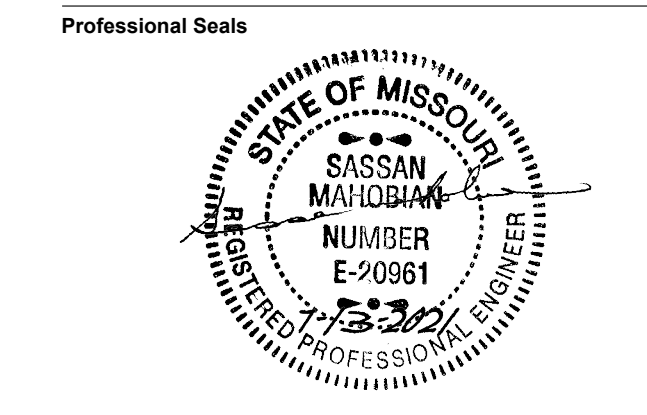
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SITE DETAILS - 1

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C501

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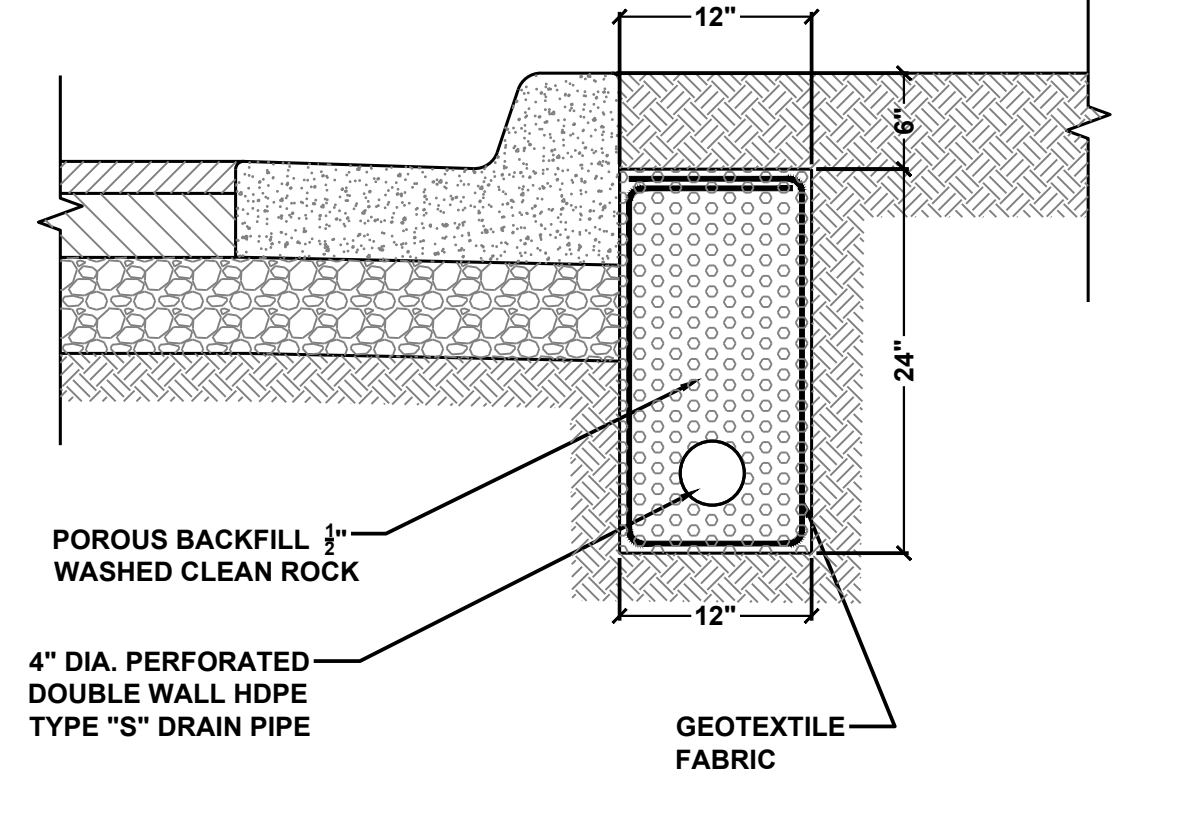
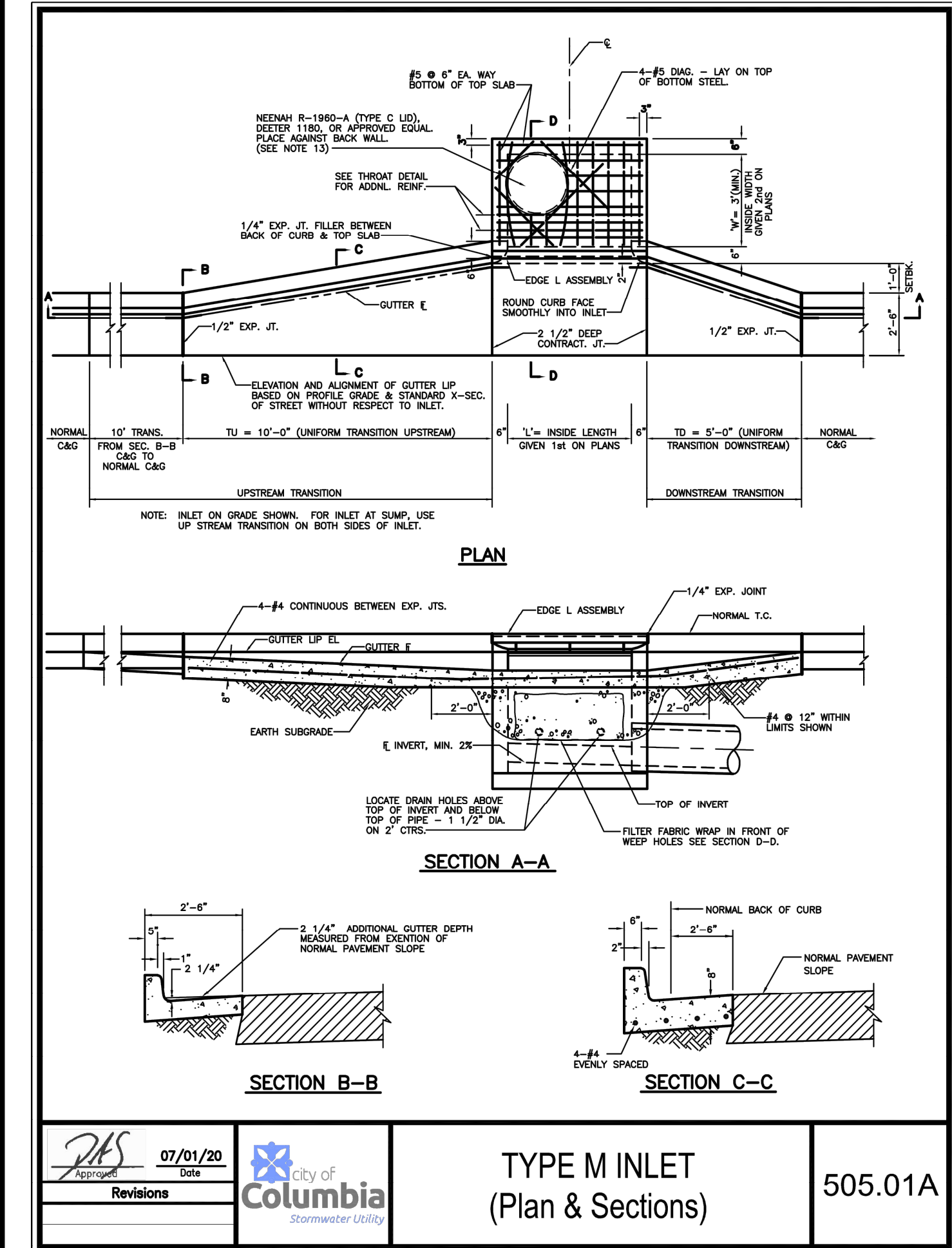
No. Description Date
1 ADDENDUM 01 7/23/2021

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SITE DETAILS - 4

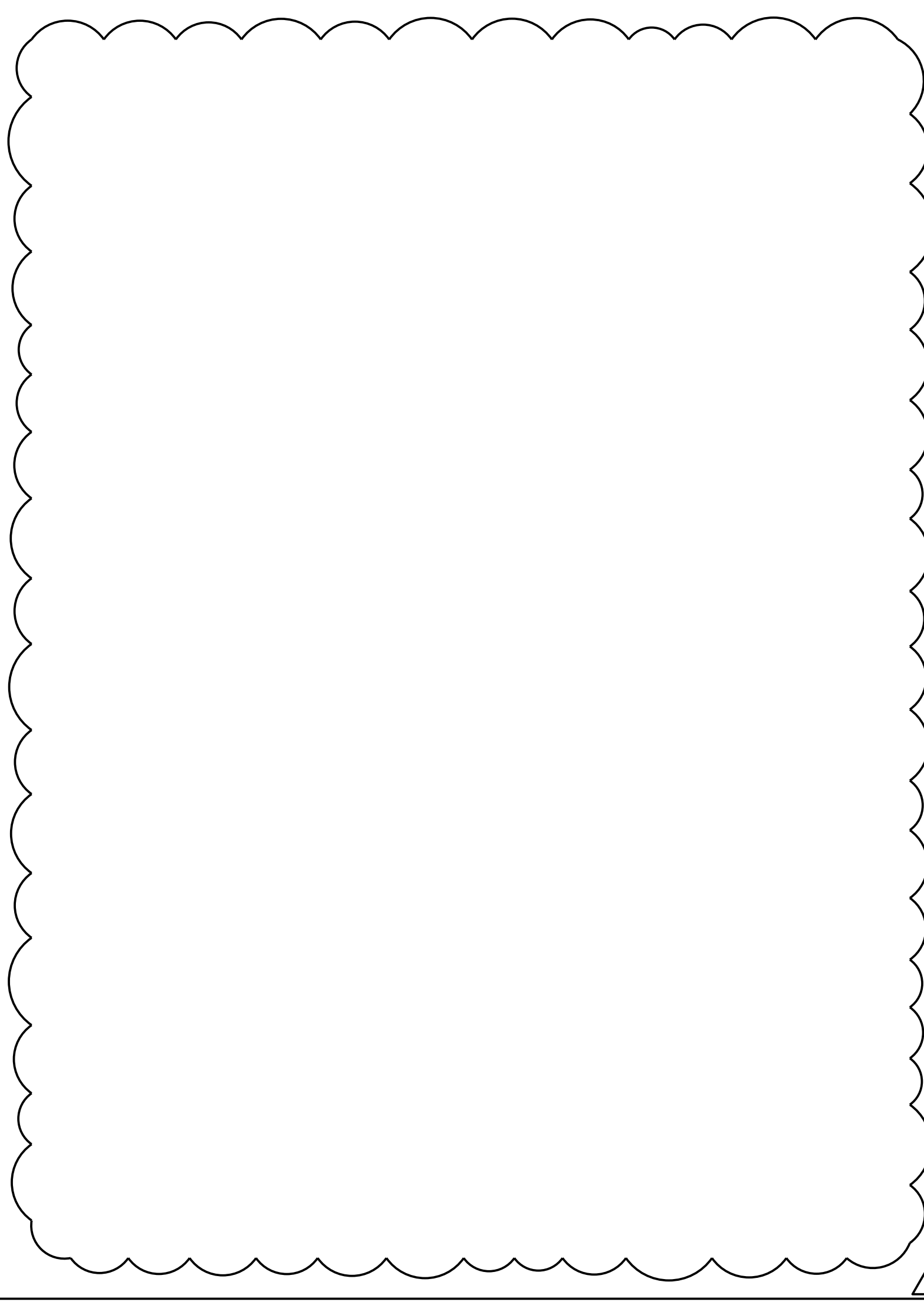
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Sheet Number

C504

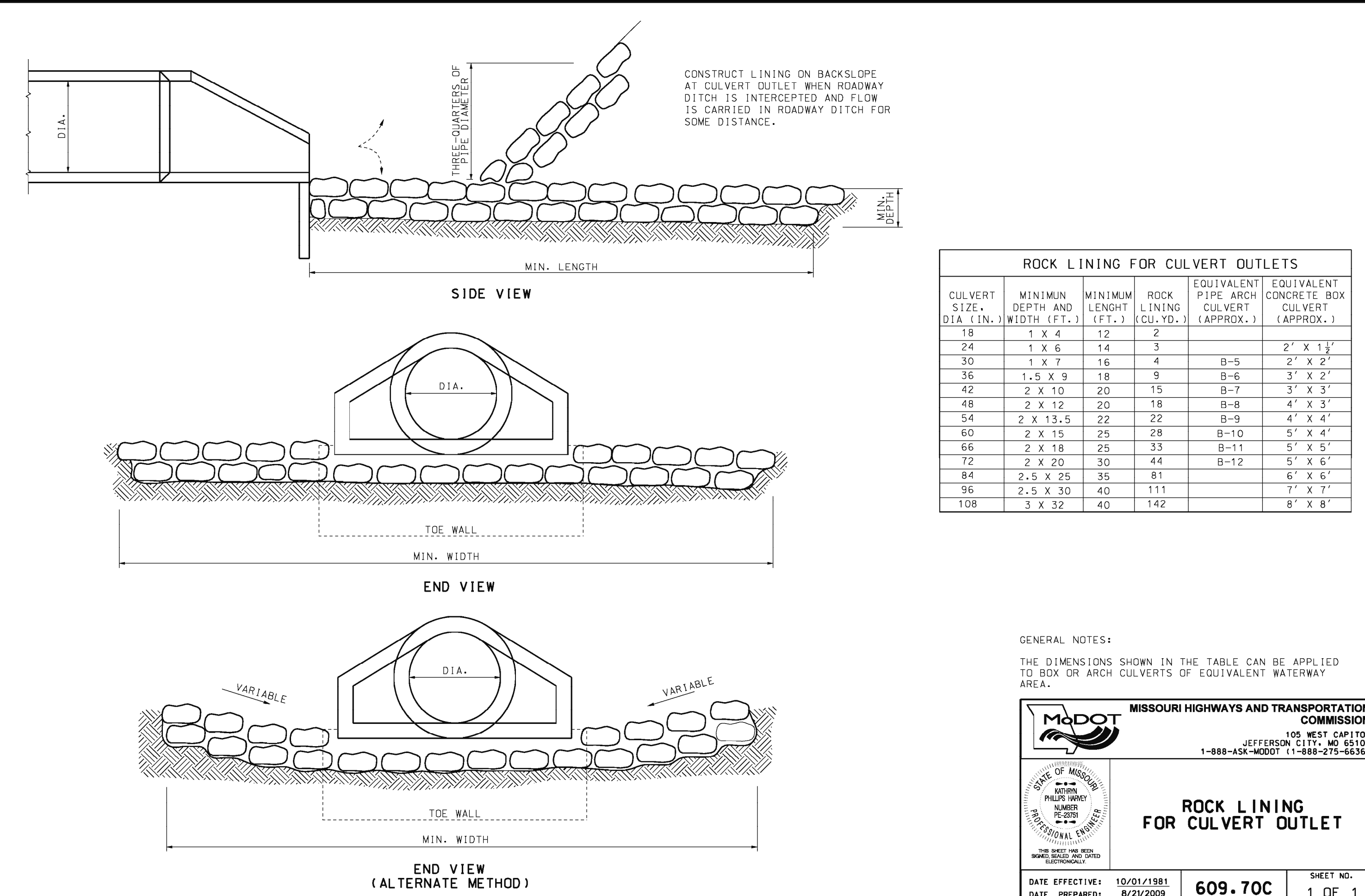


3 SETBACK CURB INLET Not to Scale

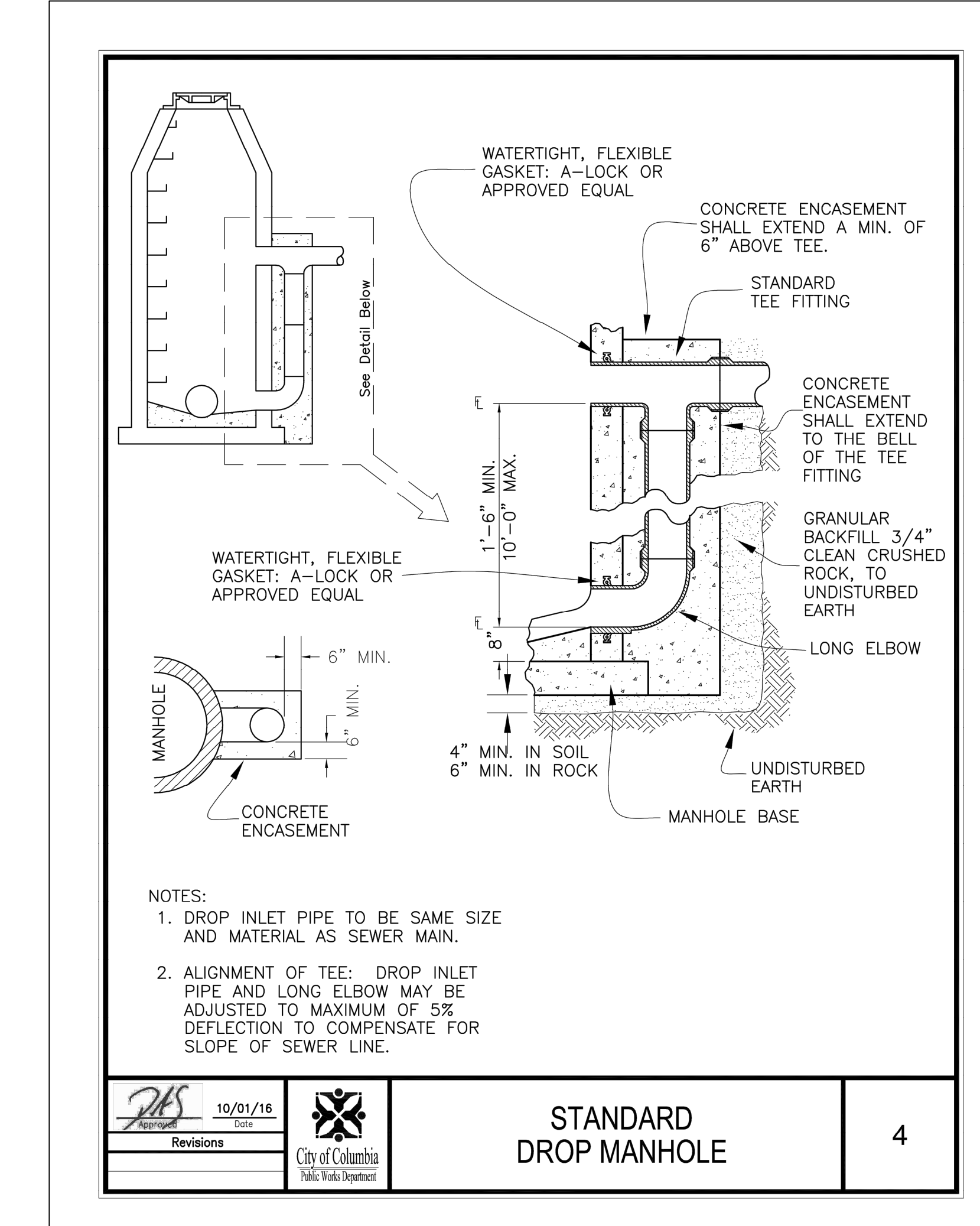
4 BACK OF CURB DRAIN DETAIL Not to Scale



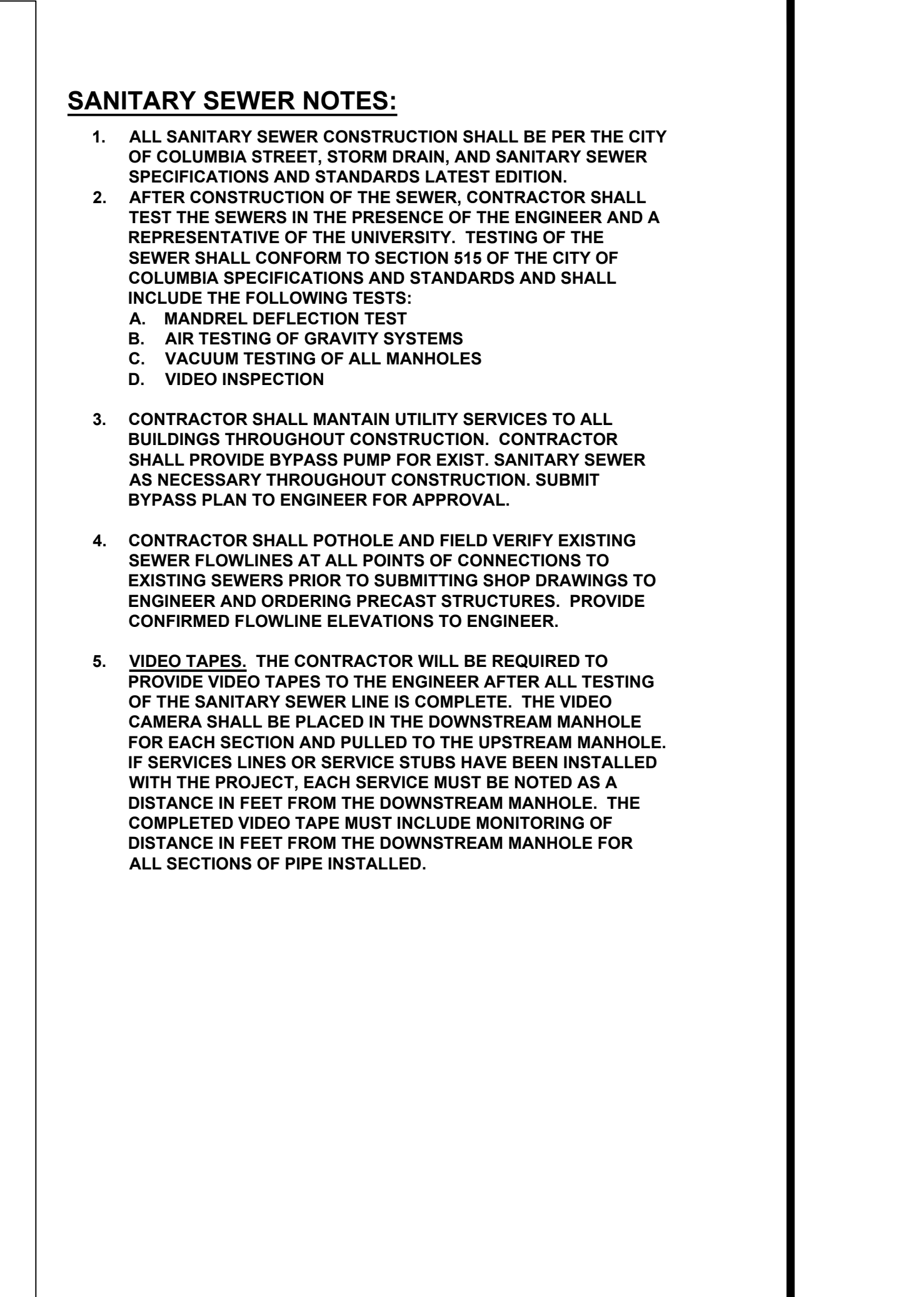
2 E-82D BOLLARD Not to Scale



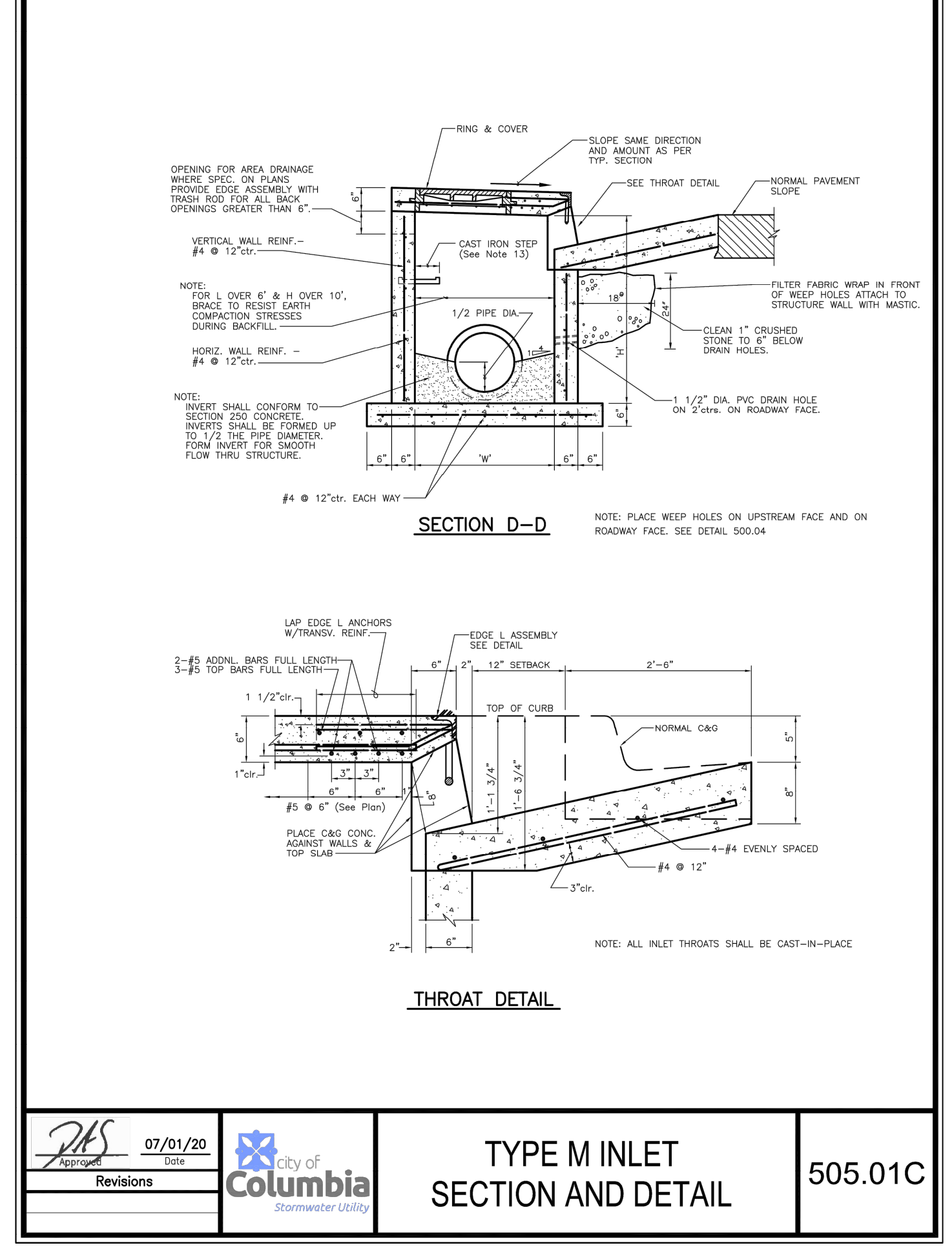
1 ROCK DITCH LINER Not to Scale



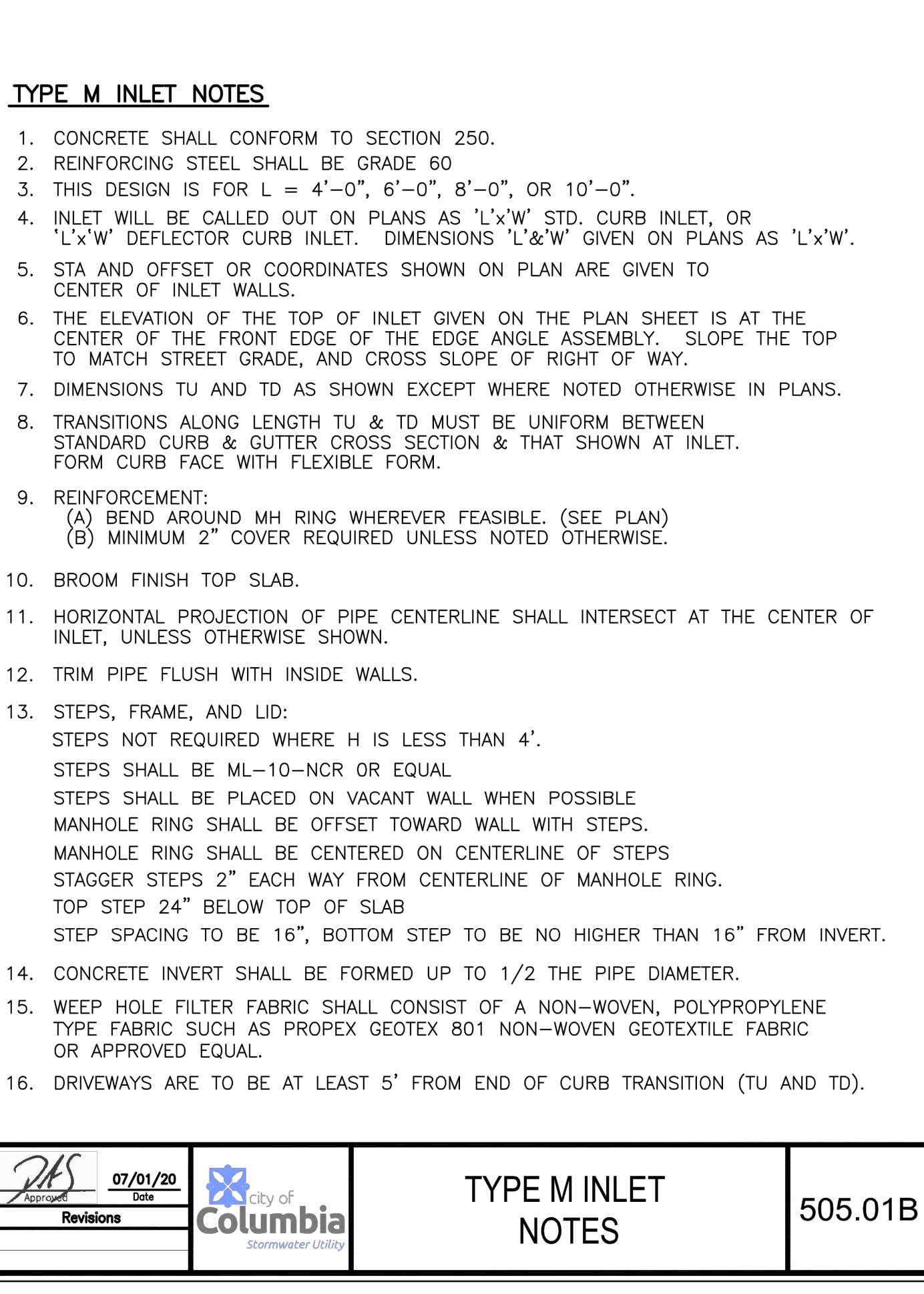
9 SANITARY SEWER DROP MANHOLE Not to Scale



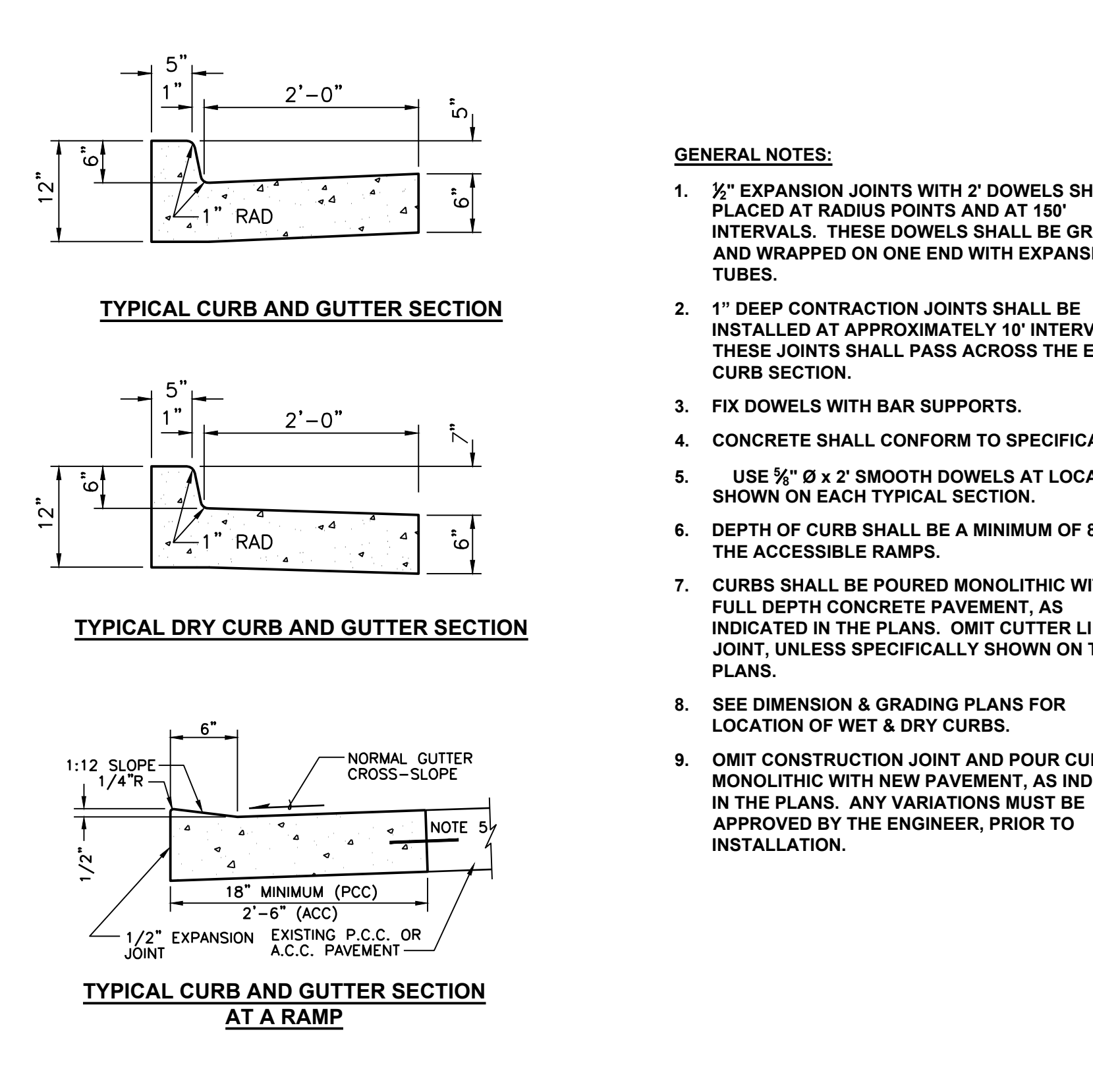
10 HEAVY DUTY TRENCH DRAIN DETAIL Not to Scale



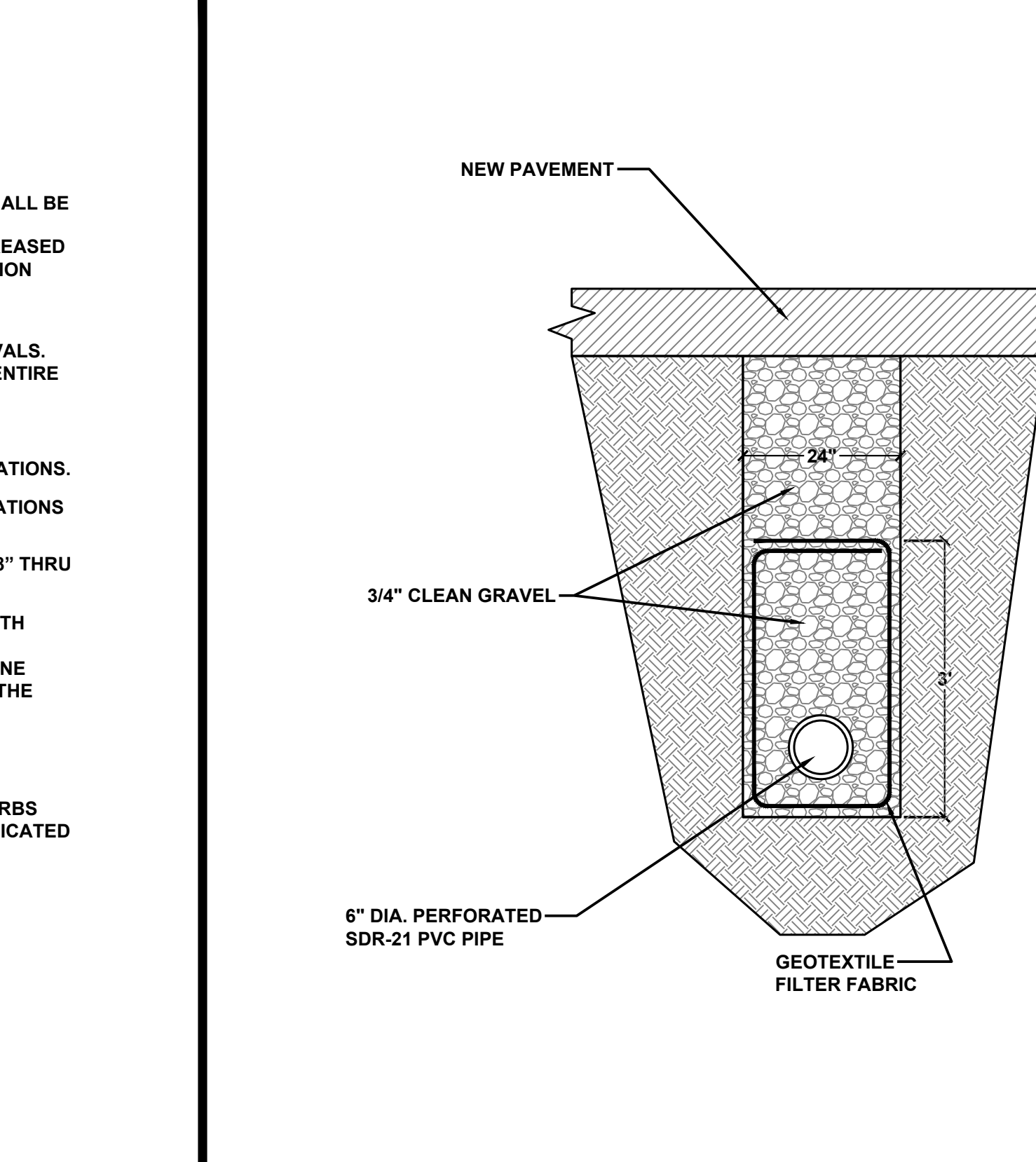
6 SETBACK CURB INLET Not to Scale



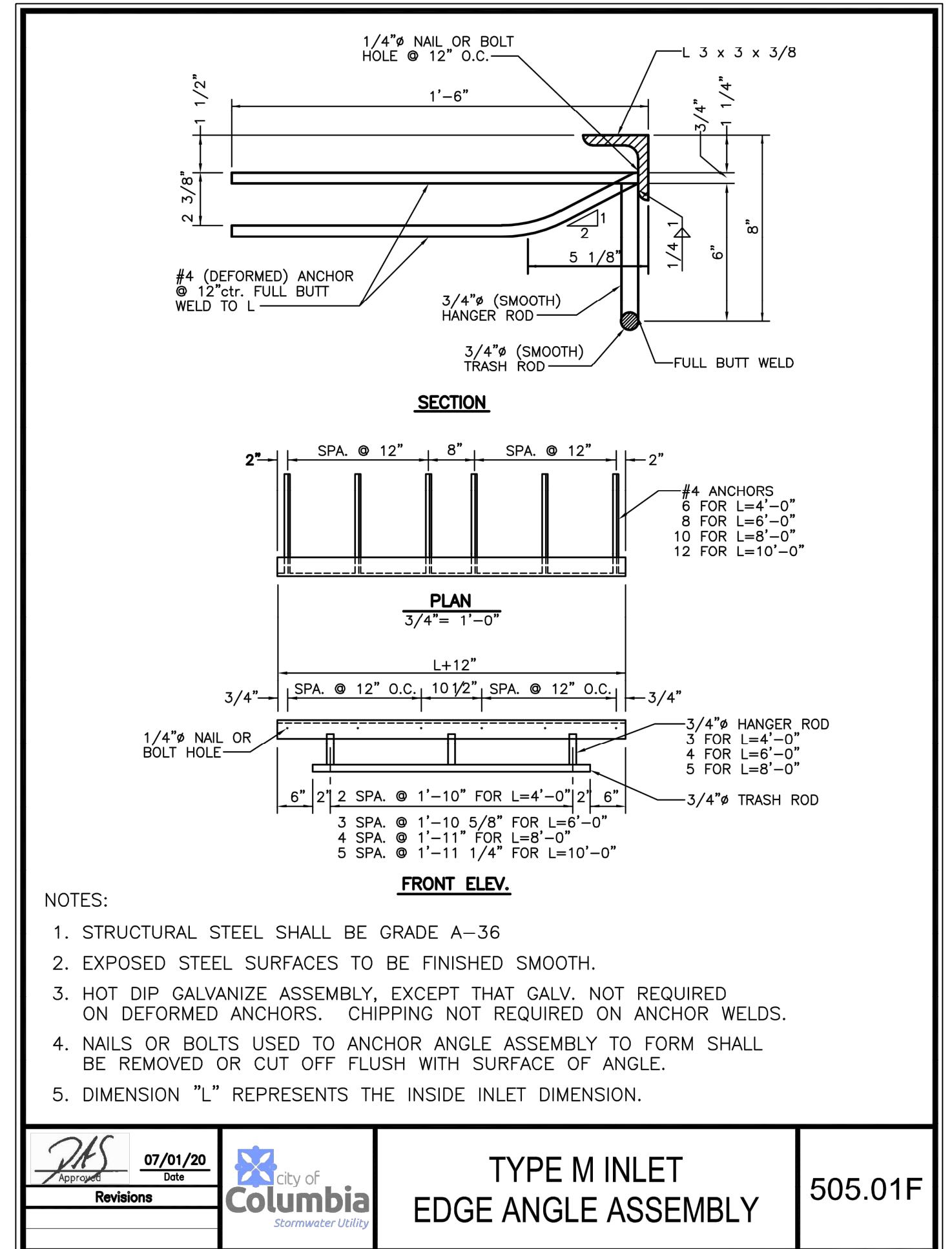
5 SETBACK CURB INLET Not to Scale



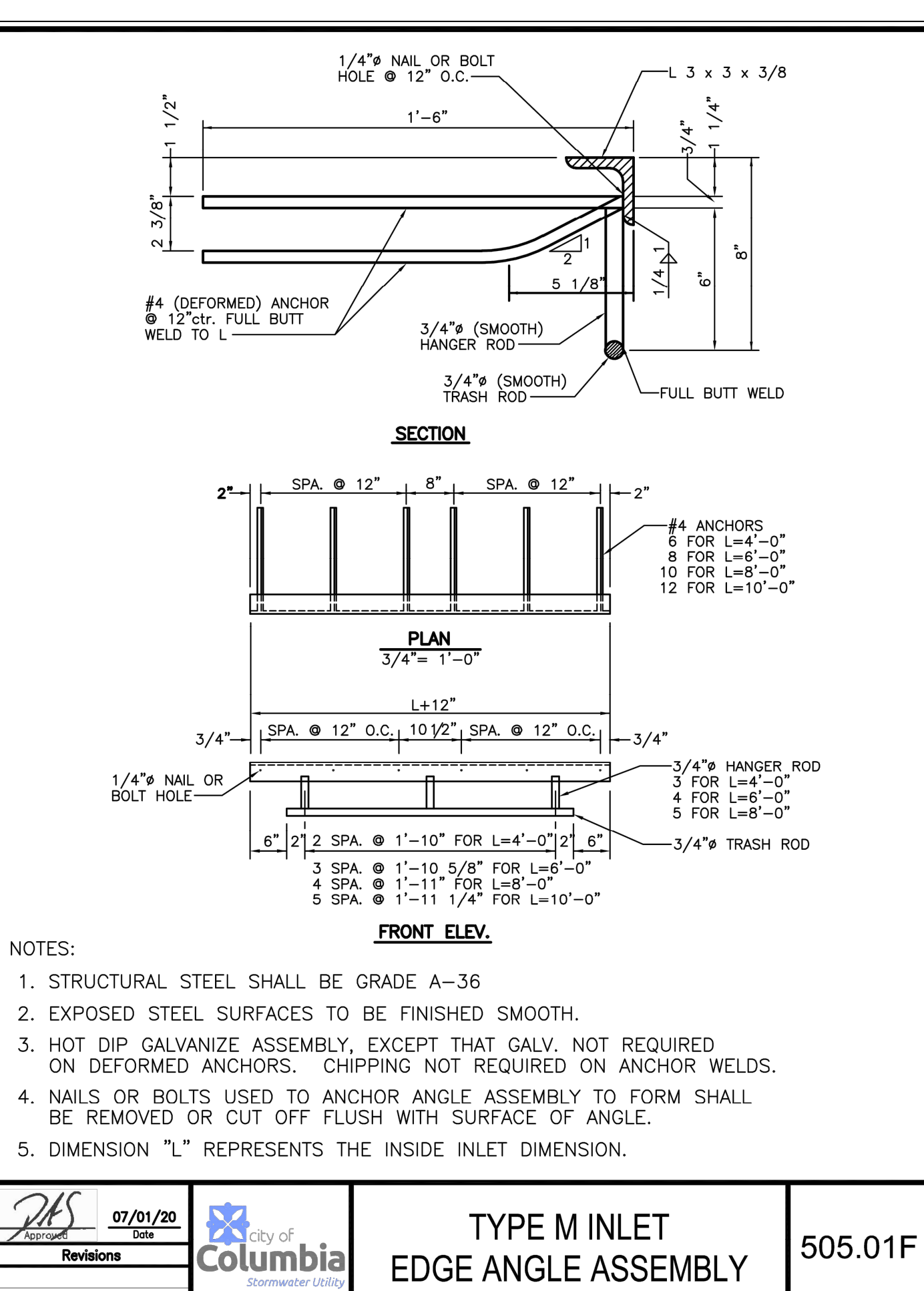
11 CURB AND GUTTER DETAILS Not to Scale



12 CUTOFF DRAIN DETAIL Not to Scale



8 SETBACK CURB INLET Not to Scale



7 SETBACK CURB INLET Not to Scale

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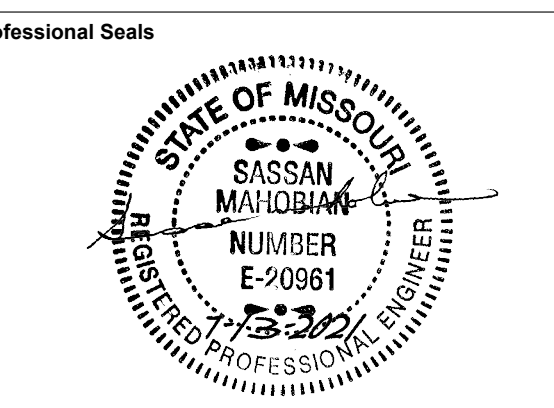
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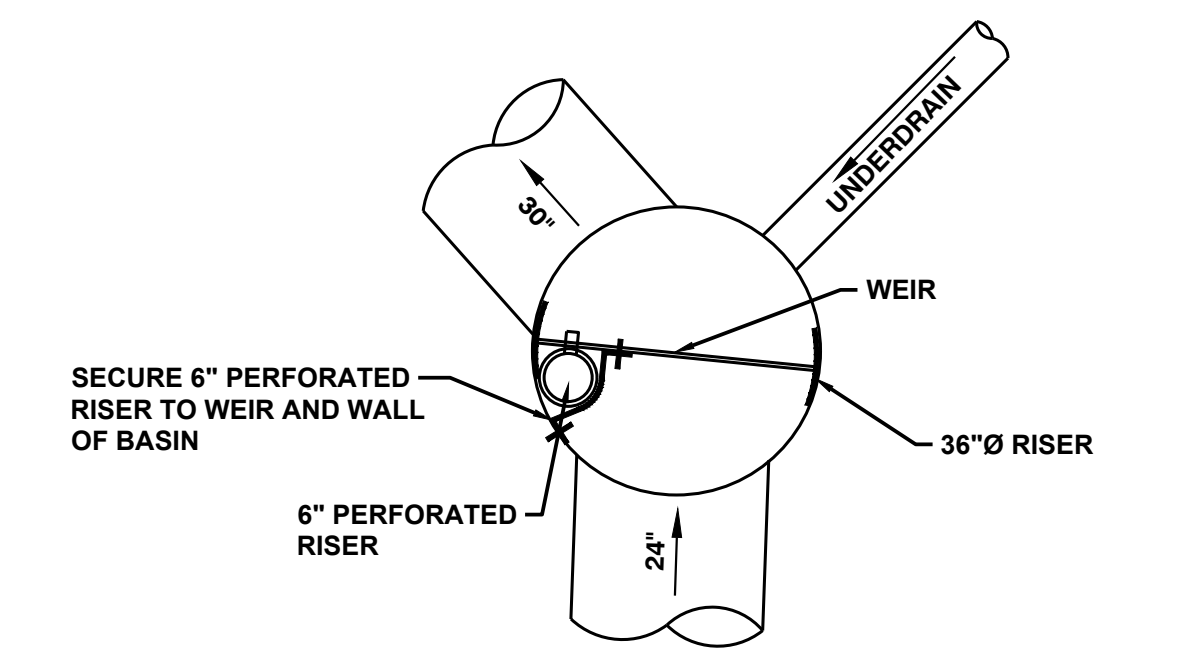
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SITE DETAILS - 5

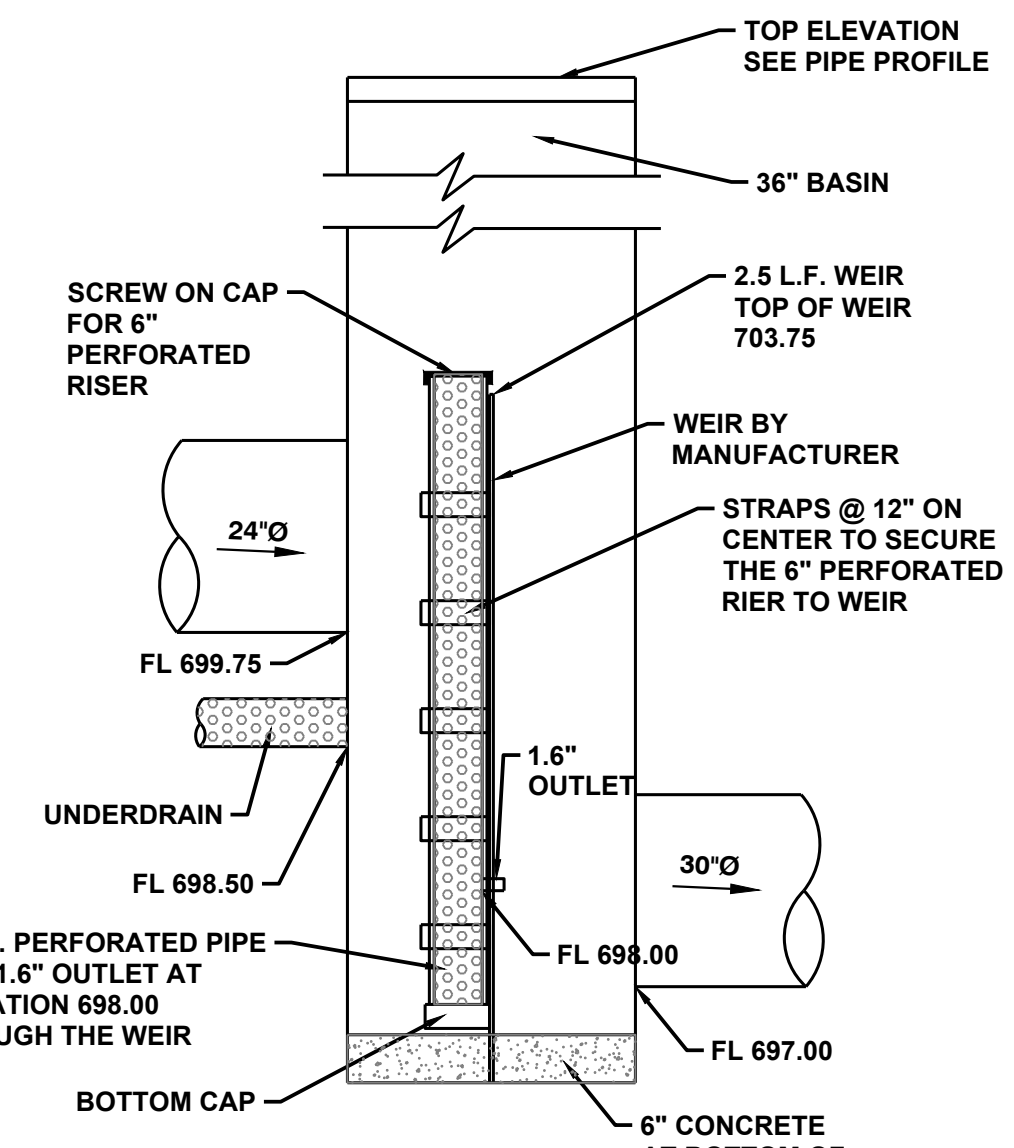
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PLAN OF CONTROL STRUCTURE "A2"
NOT TO SCALE



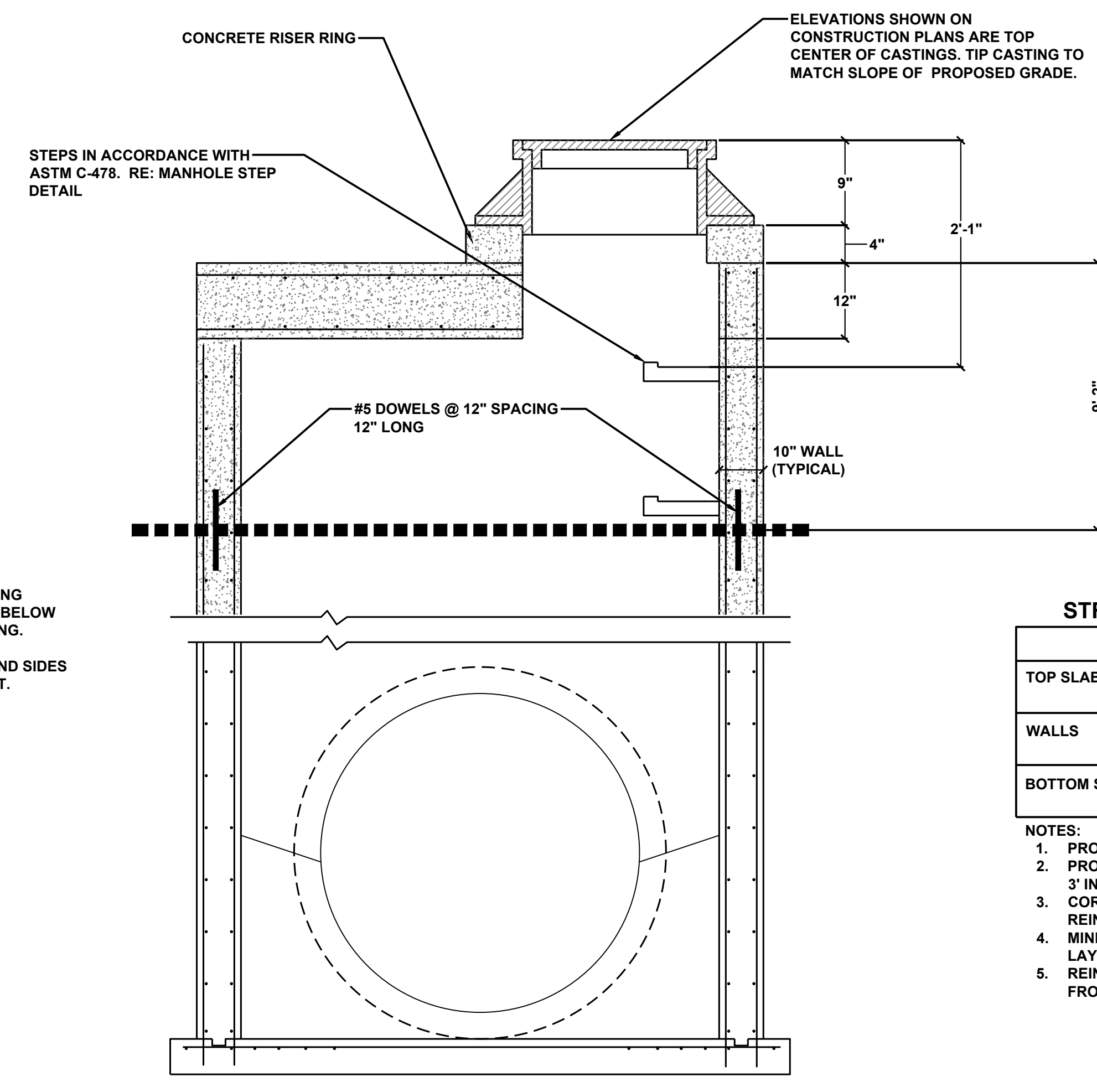
SECTIONAL VIEW OF CONTROL STRUCTURE "A2"
NOT TO SCALE

2 OUTLET STRUCTURE A2
Not to Scale

STRUCTURE EX1

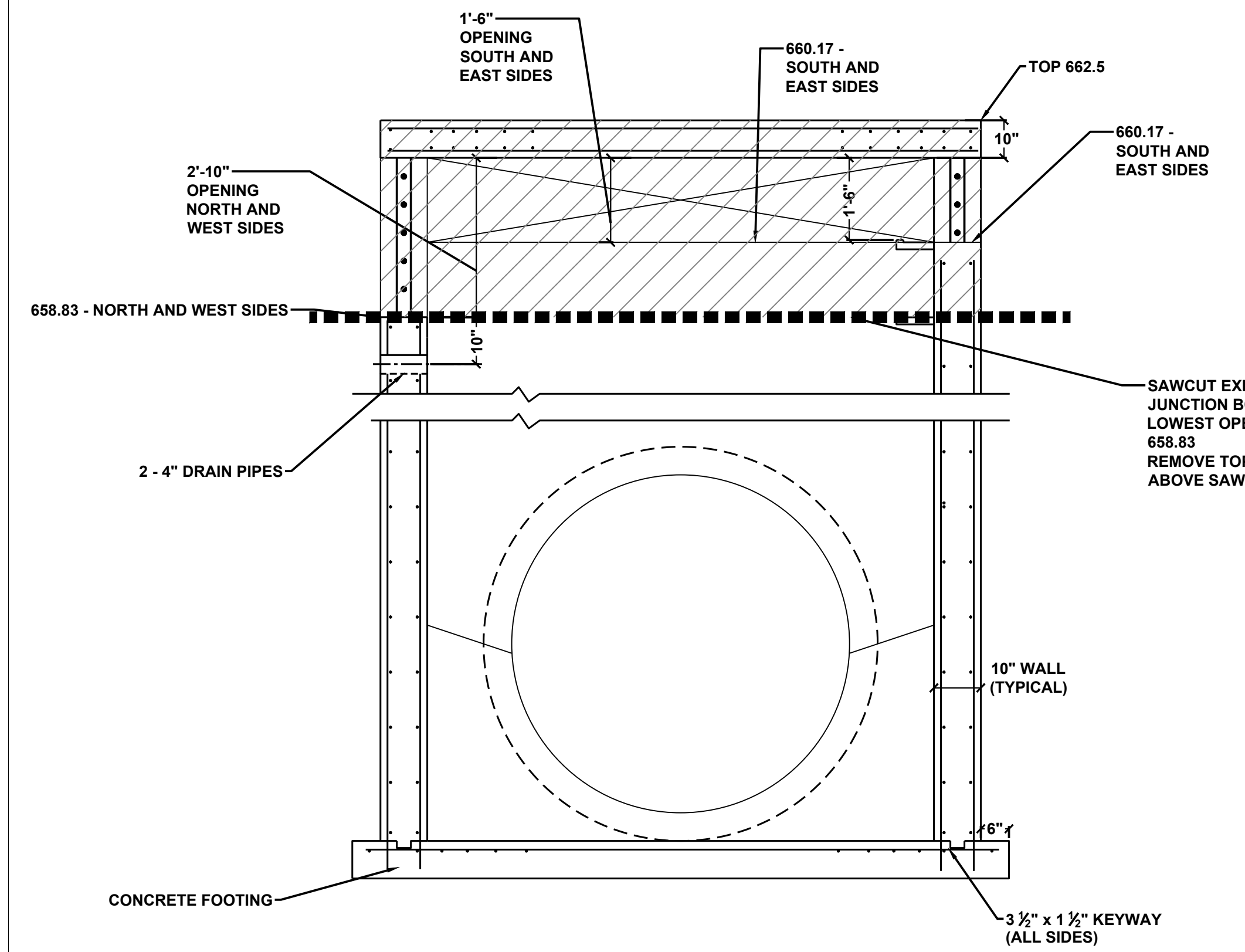
	THICKNESS	REINFORCING
TOP SLAB	10"	TOP LAYER: #5@12" EW BOTTOM LAYER: #6@12" EW
WALLS	10"	OUTSIDE FACE: #4@12" EW INSIDE FACE: #7@10" HZ, & #4@12" VT
BOTTOM SLAB	10"	TOP LAYER: #6@12" EW BOTTOM LAYER: #4 @18"

- NOTES:
- PROVIDE 2 #6 DIAGONAL BARS AROUND ALL OPENINGS.
 - PROVIDE CORNER BARS MATCHING HORIZONTAL REINFORCING BY 3" IN EACH DIRECTION.
 - CORNER COLLARS FOR STRUCTURE B1 SHALL BE 10" X 10" AND REINFORCED WITH 4 #6 @ CORNERS WITH #3 THE BARS AT 12" OC.
 - MINIMUM CLEARANCE FOR BARS SHALL BE 2" EXCEPT BOTTOM LAYER OF STEEL IN BOTTOM SLAB SHALL HAVE 3" CLEAR.
 - REINFORCING TO MATCH EXISTING BOX. FIGURES PROVIDED ARE FROM ORIGINAL INLET CONSTRUCTION.

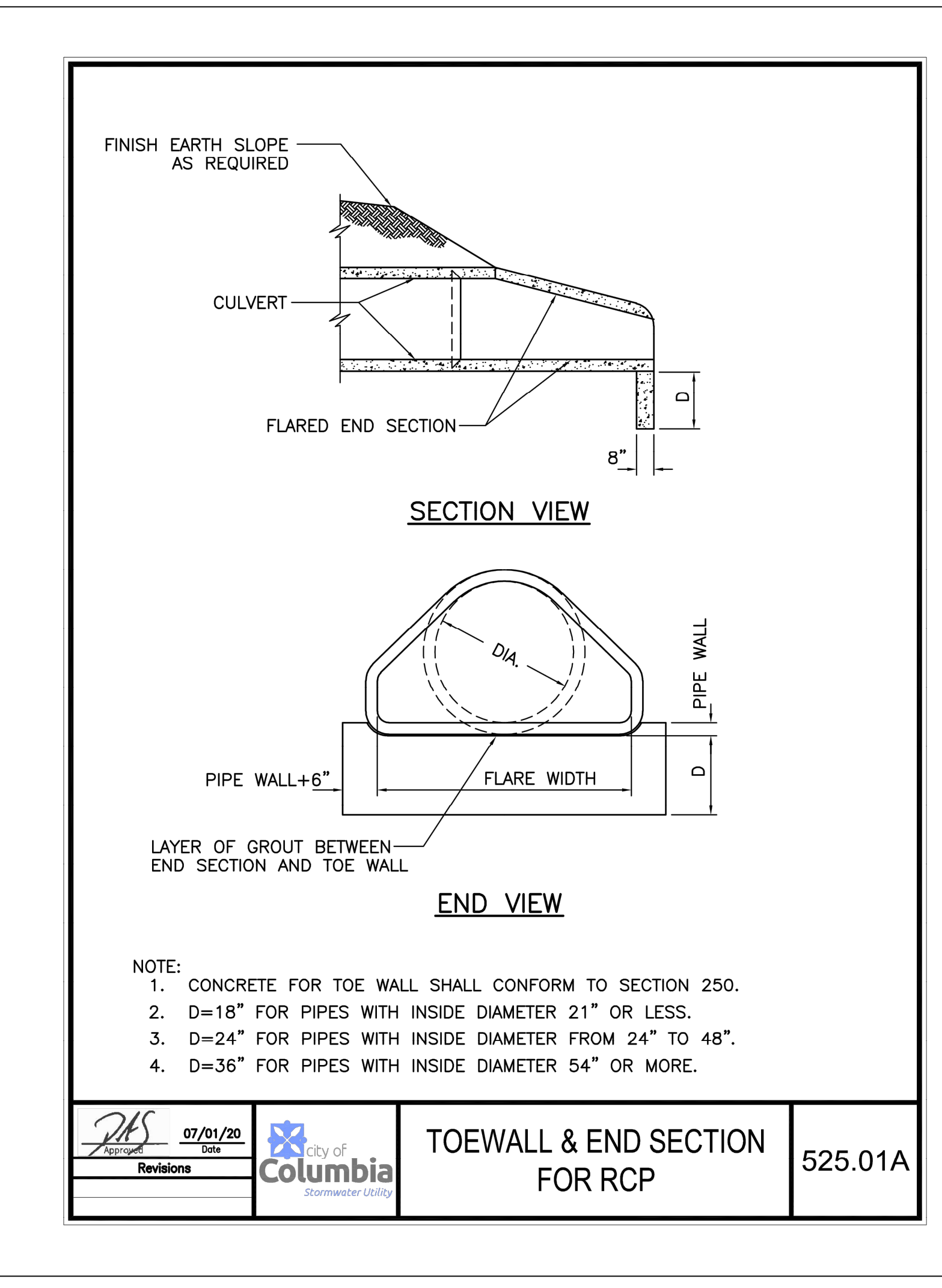


STEP TWO
Extend Wall and
Install New Top
Not to Scale

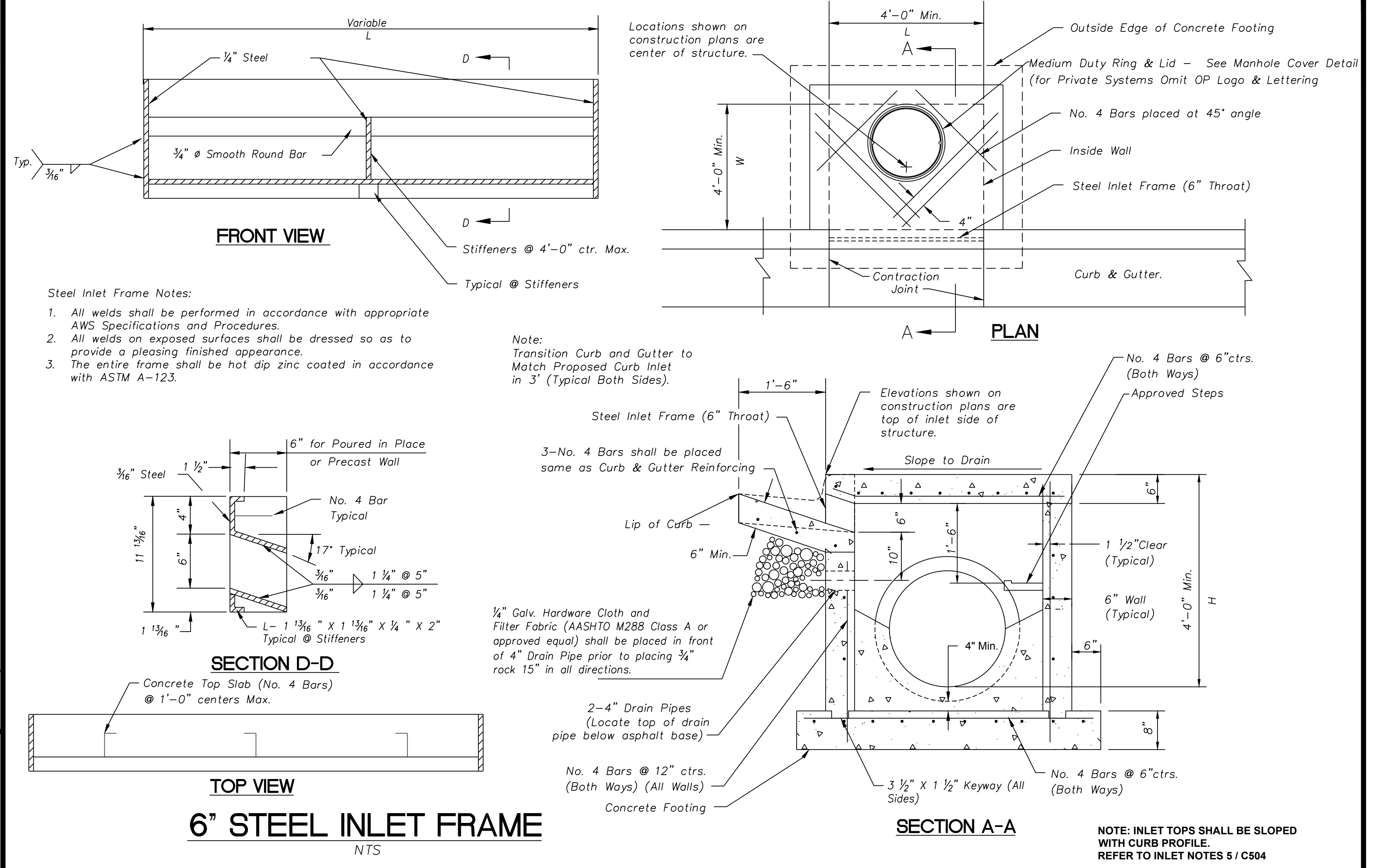
1 CONVERT EXISTING INLET EX1 TO NEW JUNCTION BOX
Not to Scale



STEP ONE
Not to Scale

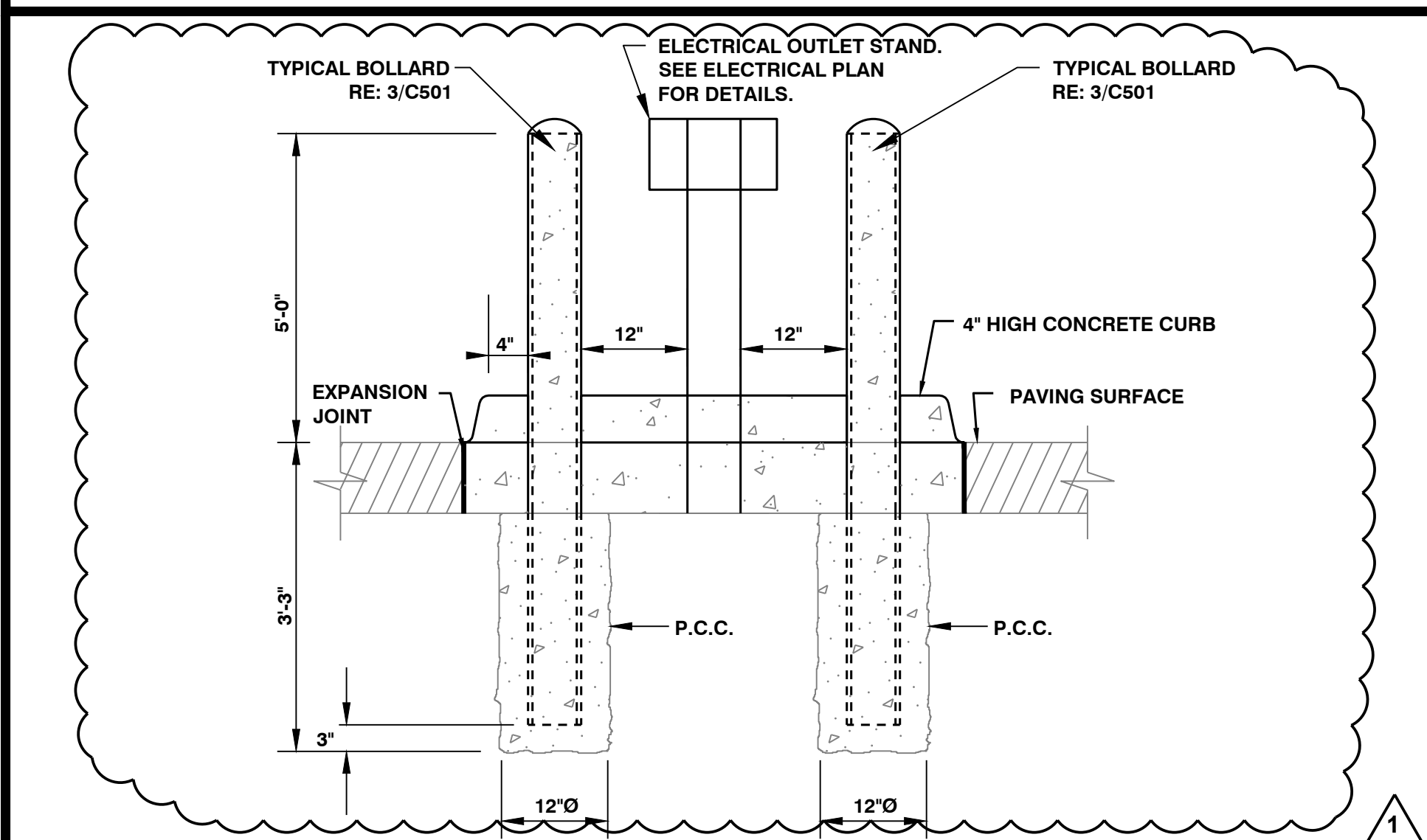


5 TOEWALL AND END SECTION
N.T.S.

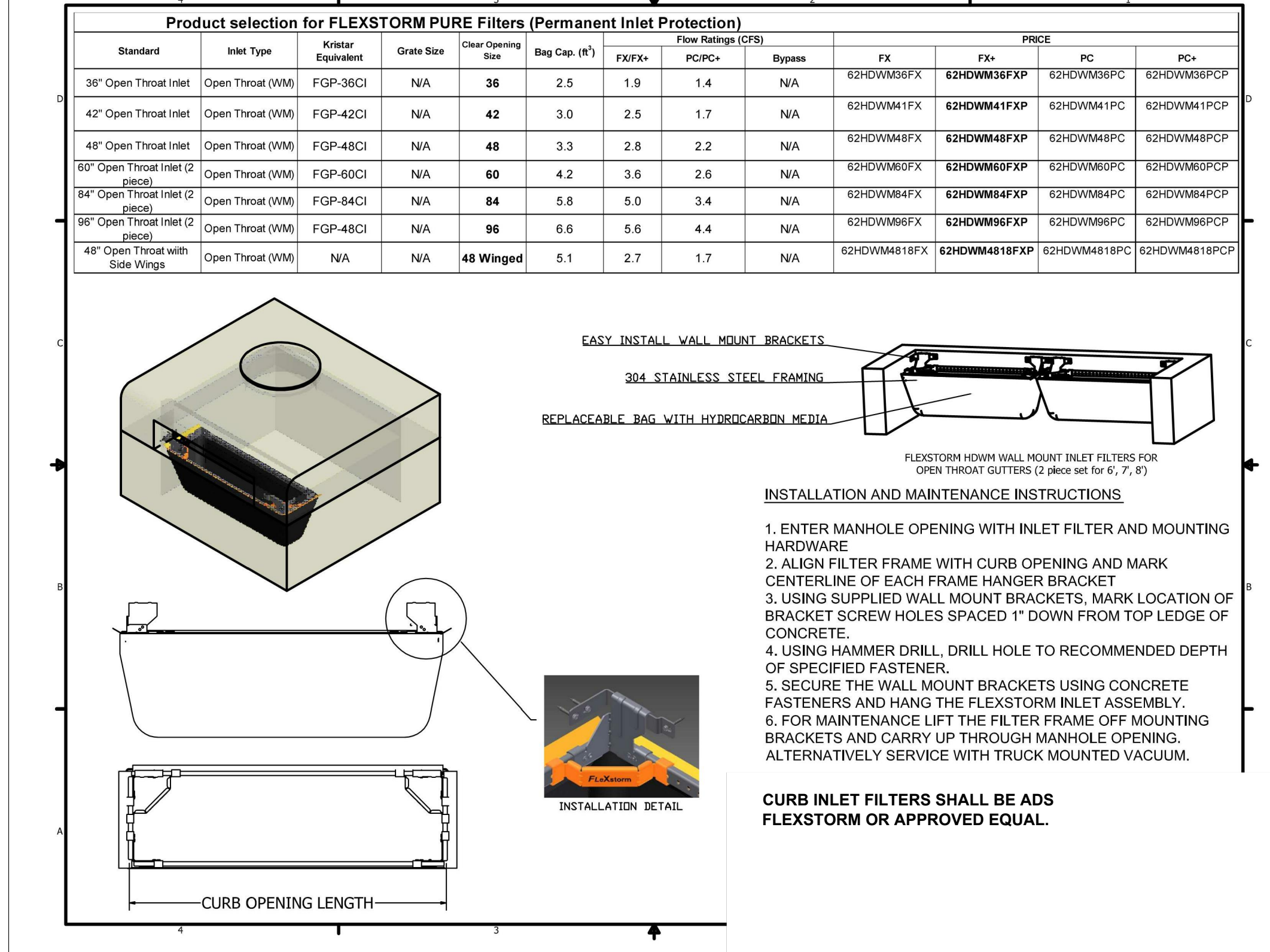


6" STEEL INLET FRAME
N.T.S.

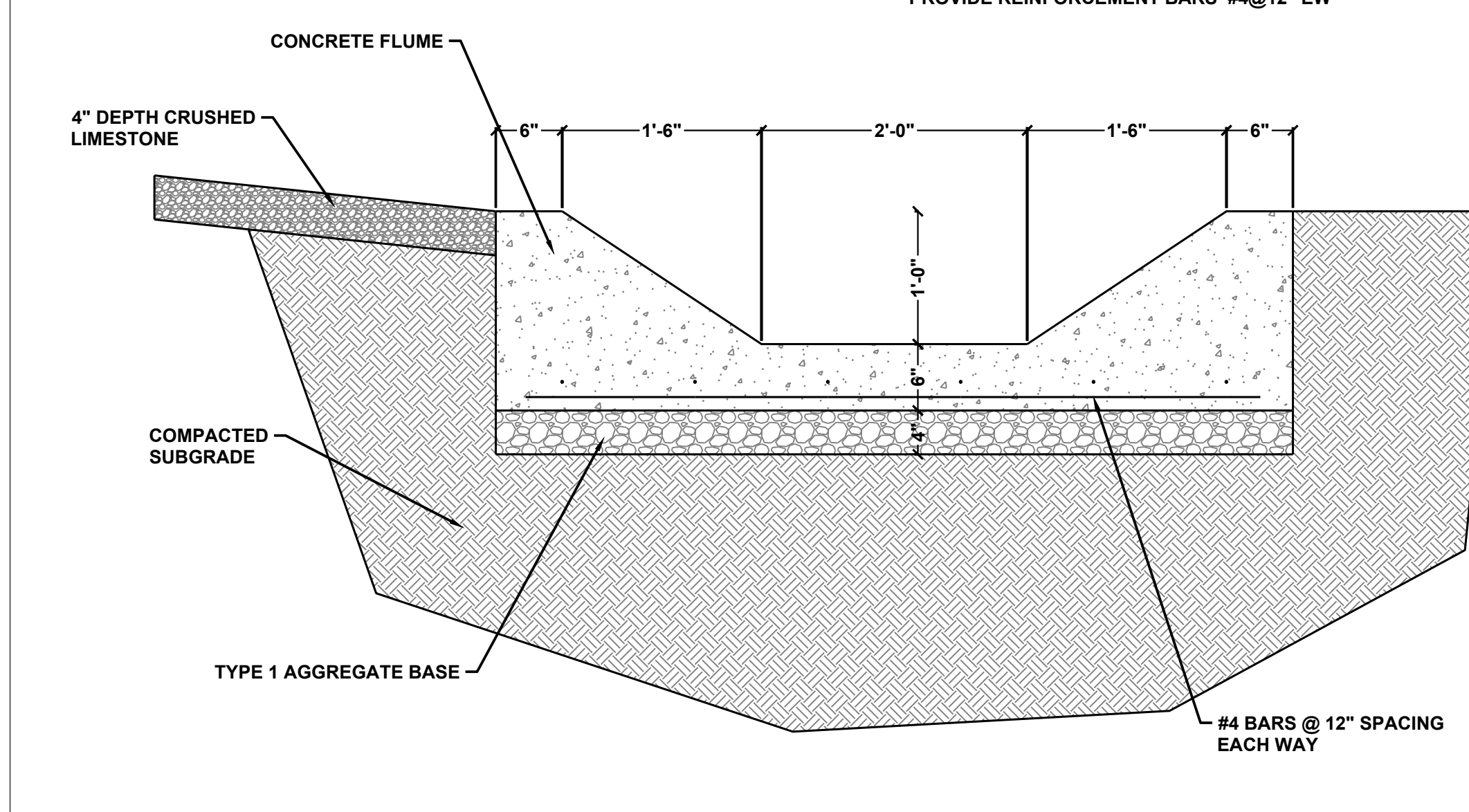
4 NON-SETBACK CURB INLET
(6" Throat)
Not to Scale



7 TYPICAL DOUBLE BOLLARD IN PARKING DETAIL
Not to Scale



3 CURB AND AREA INLET FILTER
N.T.S.



6 CONCRETE FLUME
Not to Scale

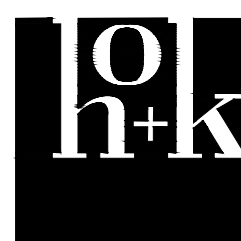
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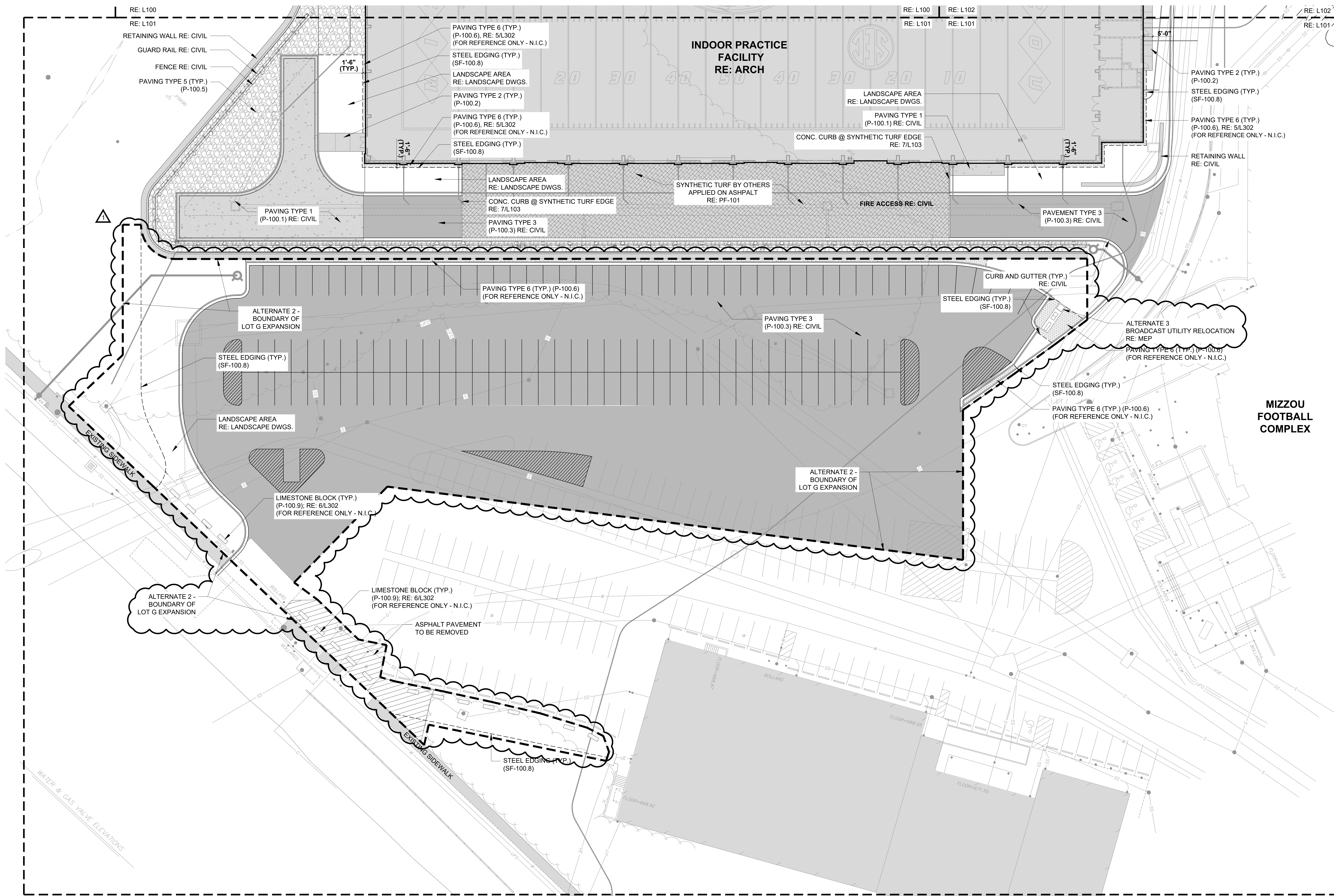
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**SITE MATERIALS &
LAYOUT PLAN**

Output in A3 x 36. Do not scale contents of this drawing.
Sheet Number

L101



1 SITE MATERIALS & LAYOUT PLAN
SCALE: 1" = 20'-0"

LEGEND

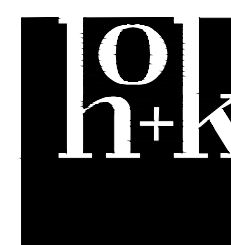
---	SHEET MATCH LINE	• • •	BOLLARD TYPE 1: FIXED (SF - 100.1) RE: 2/L103	⊕	PEDESTRIAN LIGHT POLE (L - 200.3)
[Pattern]	PAVING TYPE 1 - (P - 100.1) VEHICULAR CONCRETE PAVEMENT, RE: CIVIL	• • •	BOLLARD TYPE 2: REMOVABLE (SF - 100.2) RE: 3/L103	⊕	
[Pattern]	PAVING TYPE 2 - (P - 100.2) CONCRETE PAVEMENT, LIGHT BROOM FINISH, RE: CIVIL	⊕	REMOVABLE BOLLARD HOLDER (SF - 100.3)	⊕	
[Pattern]	PAVING TYPE 3 - (P - 100.3) ASPHALT PAVEMENT, RE: CIVIL	⊕	TRASH RECEPTACLE (SF - 100.4)	⊕	
[Pattern]	PAVING TYPE 4 - (P - 100.4) UNIT PAVER	⊕	RECYCLING RECEPTACLE (SF - 100.5)	⊕	
[Pattern]	PAVING TYPE 5 - (P - 100.5) GRAVEL TO MATCH EXISTING	⊕	BIKE RACK (SF - 100.6) RE: 1/L103	⊕	
[Pattern]	PAVING TYPE 6 - (P - 100.6) DECORATIVE RIVER ROCK (FOR REFERENCE ONLY - N.I.C.)	⊕	CONCRETE BENCH (SF - 100.7) RE: 5/L103	⊕	
[Pattern]	HEATING ELEMENT TO BE BUILT INTO CONCRETE PAVEMENT, RE: MEP	⊕	LIMESTONE BLOCK (SF - 100.9) RE: 6/L302 (FOR REFERENCE ONLY - N.I.C.)	⊕	



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UNIVERSITY OF
MISSOURI

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65201



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Overland Park, KS 66212
t 913 722 3473

Structural:
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Mechanical / Electrical / Plumbing / AV / TELECOM /
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HENDERSON ENGINEERS
1801 Main Street, Suite 300
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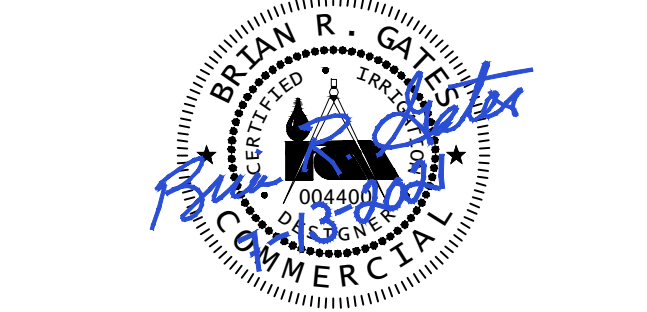
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301 W. 22nd Street
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Door Hardware:
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Irrigation:
Ecosystems
3912 SW Hesperian Drive
Lee's Summit, MO 64081
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Professional Seals



No.	Description	Date
1	Addendum 01	07/23/2021

Issued For: BID DOCUMENTS
Issued Date: 07/13/2021
Project No: 20.70064.00

IRRIGATION
PLAN - SITE

Original is 48" x 36". Do not scale contents of this drawing.
Sheet Number

IR101

CRITICAL ANALYSIS

Generated: 2021-07-06 15:51

P.O.C. NUMBER: 01
Water Source Information:
1" MINIMUM SIZE IRRIGATION WATER METER WITH 1 1/2" MINIMUM SIZE SERVICE LINE INSIDE BUILDING WATER SERVICE ROOM, 1 1/2" PIPE STUB-OUT TO GREEN SPACE AREA BY THE PLUMBING CONTRACTOR.

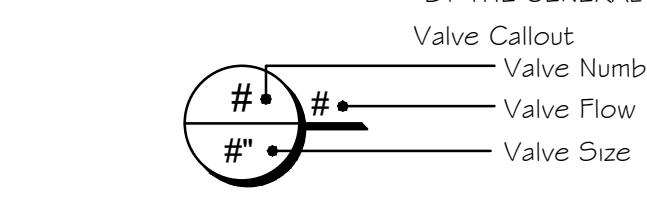
FLOW AVAILABLE
Water Meter Size: 1"
Flow Available: 37.50 gpm
PRESSURE AVAILABLE
Static Pressure at POC: 70.00 PSI
Elevation Change: 0.00 ft
Service Line Size: 1 1/2"
Length of Service Line: 10.0 ft
Pressure Available: 69.00 psi

DESIGN ANALYSIS
Maximum Station Flow: 37.41 gpm
Flow Available at POC: 37.50 gpm
Residual Flow Available: 0.09 gpm

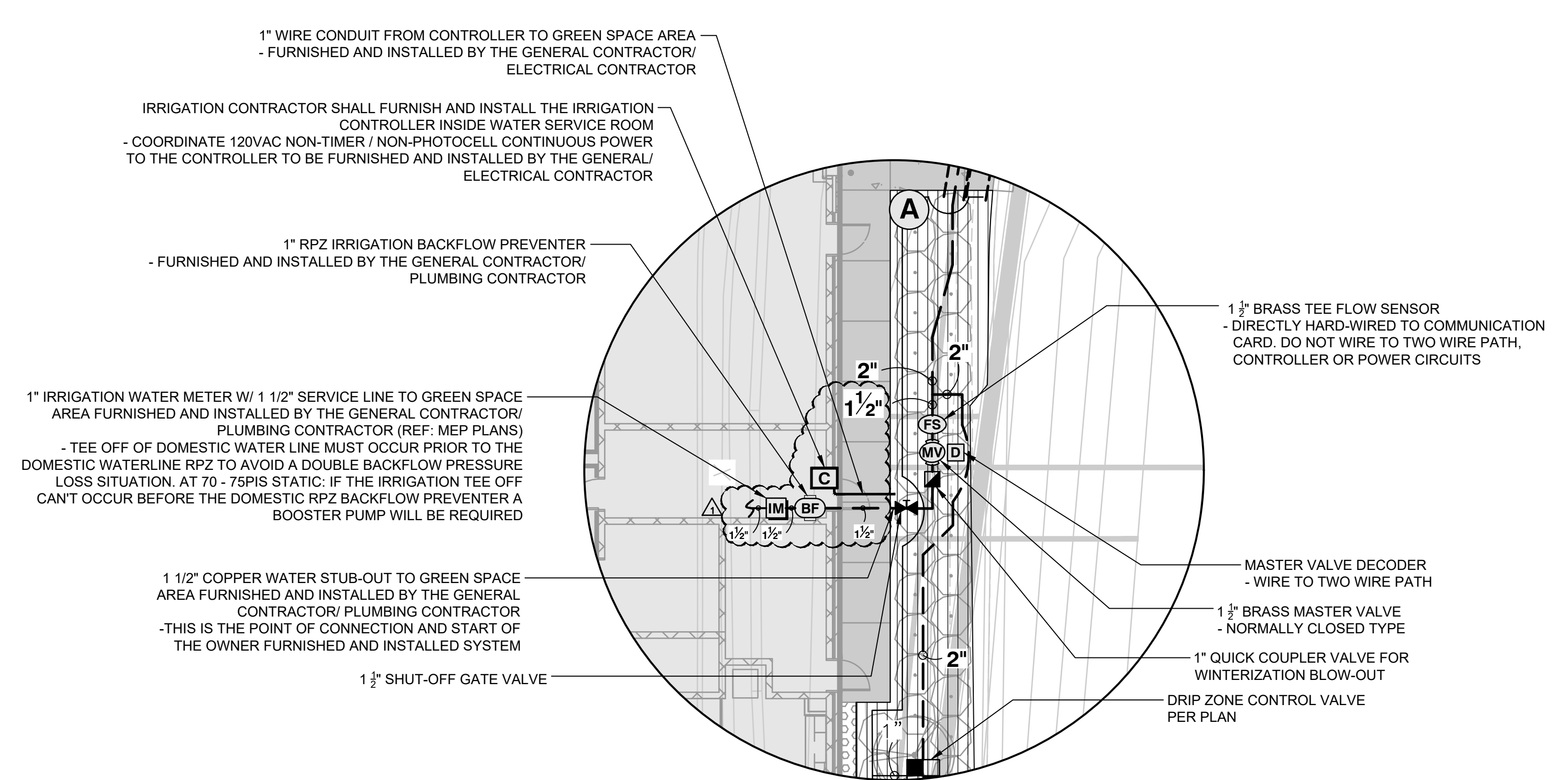
Critical Station: 10
Design Station: 30.00 psi
Friction Loss: 2.71 psi
Fittings Loss: 0.28 psi
Elevation Loss: 0.00 psi
Loss through Valve: 3.26 psi
Pressure Reg. at Critical Station: 36.95 psi
Loss for Fittings: 0.10 psi
Loss for Main Line: 1.00 psi
Loss for POC to Valve Elevation: 1.29 psi
Loss for Backflow: 1.40 psi
Loss for Master Valve: 1.29 psi
Loss for Water Meter: 1.29 psi
Critical Station Pressure at POC: 66.79 psi
Pressure Available: 69.00 psi
Residual Pressure Available: 2.22 psi

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	ARC	PSI
B	RAIN BIRD 180G-SAM-FRS VAN SERIES	46	ADJ	30
D	RAIN BIRD 180G-SAM-FRS VAN SERIES	23	ADJ	30
□	RAIN BIRD XC2-1-00-FRB-COM 1" WIDE FLOW DRIP CONTROL KIT FOR COMMERCIAL APPLICATIONS. 1" BALL VALVE WITH 1" PRESS VALVE AND 1" PRESSURE REGULATING 40PSI QUICK-CHECK BASKET FILTER. 0.3GPM TO 20GPM.	16		
F	RAIN BIRD MDCFCAP DRIPLINE FLUSH VALVE CAP IN COMPRESSION FITTING COURTESY. INSTALL ON DRIPLINE LOW POINT IN A 6" ROUND VALVE BOX WITHIN AREA SHOWN.	22		
A	RAIN BIRD ARVOSO 1/2" 1/2" AIR RELIEF VALVE. INSTALL ON THE PVC LATERAL HEADER IN A 6" ROUND VALVE BOX.	19		
■	AREA TO RECEIVE DRIPLINE RAIN BIRD XP Fittings: 12 XFD ON SURFACE. PRESSURE COMPENSATING LANDSCAPE DRIPLINE. 0.6 GPH EMITTERS AT 1/2" O.C. DRIPLINE. LATERALS SPACED AT 12" APART. WITH EMITTERS OFFSET FOR TRIANGULAR PATTERN. UV RESISTANT. INSTALL WITH RAIN BIRD XP FITTINGS.	20,803 L.F.		
○	WEATHERMATIC SB-10F-HP 1" PLASTIC REMOTE CONTROL VALVE, SIZE AS NOTED. FIP WITH FLOW CONTROL.	6		
○	WEATHERMATIC SB-10F-HP 1-1/2" PLASTIC REMOTE CONTROL VALVE, SIZE AS NOTED. FIP WITH FLOW CONTROL.	1		
■	RAIN BIRD 44-LRC 1" 1" BRASS QUICK-COUPING VALVE, WITH CORROSION-RESISTANT STAINLESS STEEL SPRING, LOCKING THERMOPLASTIC RUBBER COVER, AND 2-PIECE BODY. FOR WINTERIZATION BLOW-OUT.	1		
⌵	MATCO-NORCA 514TX BRASS GATE VALVE, FULL PORT, WITH SOLID WEDGE. IPS. CROSS HANDLE. SAME SIZE AS MAINLINE PIPE.	1		
⊕	WEATHERMATIC 8200CK 1-1/2" BRASS 2-POSITION CONTROL MASTER VALVE.	1		
⊕	FRBCO AGO 1" PRESSURE BACKFLOW PREVENTER, FURNISHED AND INSTALLED ON 1 1/2" COPPER PIPE WITHIN THE WATER SERVICE ROOM BY THE GENERAL CONTRACTOR/ PLUMBING CONTRACTOR. (REF: MEP PLANS)	1		
C	WEATHERMATIC SLSMARTWR48-1YR-IN-BUILD-FLOW SMARTWIRE SLS48B1W-48-ZONE TWO-WIRE CONTROLLER, INTERNAL 120VAC/230VAC TRANSFORMER, LARGE BACKLIT LCD DISPLAY, WIRELESS WEATHER SENSOR FOR ET BASED WATERING, 900 MHZ RANGE, SMARTLINK ARCADE WITH FLOW WITH 1-YEAR SERVICE PLAN PLUS EXTENDED WARRANTY.	1		
D	WEATHERMATIC RF55 WIRELESS RAIN AND FREEZE SENSOR COMBO. INCLUDED WITH THE CONTROLLER BUNDLE.	1		
D	WEATHERMATIC SLDEC1 1 VALVE OPERATION DECODER, DECODES SIGNALS FROM SLSM48DM TO OPEN AND CLOSE VALVES, SURGE PROTECTION, 14 GAUGE PVC-COATED CONNECTING WIRES, FULLY PROGRAMMABLE FOR VALVE ADDRESSES USING SLSM48DM	26		
△	WEATHERMATIC SLGOT LIGHTNING ARRESTOR DEVICE. WIRE DIRECTLY TO THE GROUND ROD AS PER THE MANUFACTURERS INSTALLATION INSTRUCTIONS.	8		
PS	WEATHERMATIC SLS48-B 1-1/2" BRASS THREADED TEE TYPE INSERT FLOW SENSOR USED WITH THE SMARTLINK FLOW ARCADE. HARD WIRE DIRECTLY TO SMARTLINK ARCADE. DO NOT CONNECT THE FLOW SENSOR TO THE CONTROLLER. POWER OR VALVE CIRCUITS INSTALL WITH A SHIELDED DIRECT BURIAL CABLE WITH AT LEAST ONE TWISTED PAIR OF CONDUCTORS. MULTIPLE PAIR CABLE MAY BE USED. USE #10 AWG OR LARGER STRANDED COPPER WIRE CONDUCTORS TO EXTEND THE DISTANCE UP TO 2,000 FEET.	1		
IM	WATER METER 1" 1" MINIMUM SIZE IRRIGATION WATER METER WITH 1 1/2" MINIMUM SIZE SERVICE LINE INSIDE BUILDING WATER SERVICE ROOM, 1 1/2" PIPE STUB-OUT TO GREEN SPACE AREA - FURNISHED AND INSTALLED BY THE GENERAL CONTRACTOR/ PLUMBING CONTRACTOR. (REF: MEP PLANS)	1		
---	IRRIGATION LATERAL LINE: PVC CLASS 200 SDR 21 1"	4,118 L.F.		
---	IRRIGATION LATERAL LINE: PVC CLASS 200 SDR 21 1 1/2"	219.5 L.F.		
---	IRRIGATION LATERAL LINE: PVC CLASS 200 SDR 21 2"	3.7 L.F.		
---	IRRIGATION MAINLINE: PVC CLASS 200 SDR 21 1 1/2"	625.8 L.F.		
---	IRRIGATION MAINLINE: PVC CLASS 200 SDR 21 2"	26.8 L.F.		
---	IRRIGATION MAINLINE: PVC CLASS 200 SDR 21 2"	1,800 L.F.		
---	PIPE SLEEVE: PVC SCHEDULE 40 4"	896.0 L.F.		
---	TYPICAL PIPE SLEEVE FOR IRRIGATION PIPE AND WIRE. ALL SLEEVES SHALL BE FURNISHED AND INSTALLED BY THE GENERAL CONTRACTOR.			
---	PIPE SLEEVE: PVC SCHEDULE 40 6"	33.1 L.F.		
---	TYPICAL PIPE SLEEVE FOR IRRIGATION PIPE AND WIRE. ALL SLEEVES SHALL BE FURNISHED AND INSTALLED BY THE GENERAL CONTRACTOR.			
---	PIPE SLEEVE: PVC SCHEDULE 40 4"	149.4 L.F.		
---	TYPICAL CASED BORE FOR IRRIGATION PIPE AND WIRE. ALL CASED BORES SHALL BE FURNISHED AND INSTALLED BY THE GENERAL CONTRACTOR.			



NOTE: ONLY THE IRRIGATION SLEEVES, DEDUCT WATER METER, BACKFLOW PREVENTER, 1 1/2" COPPER PIPE STUB-OUT TO GREEN SPACE AREA, 1" WIRE CONDUIT TO GREEN SPACE AREA AND POWER TO THE CONTROLLER ARE IN THE GENERAL CONTRACTORS WORK SCOPE TO FURNISH AND INSTALL. ALL IRRIGATION MAIN LINE AND LATERAL PIPE, ASSOCIATED FITTINGS, TWO WIRE PATH, VALVES, HEADS, NOZZLES AND OTHER IRRIGATION EQUIPMENT ARE TO BE FURNISHED AND INSTALLED BY THE OWNER.



1" WIRE CONDUIT FROM CONTROLLER TO GREEN SPACE AREA - FURNISHED AND INSTALLED BY THE GENERAL CONTRACTOR/ ELECTRICAL CONTRACTOR

IRRIGATION CONTRACTOR SHALL FURNISH AND INSTALL THE IRRIGATION CONTROLLER INSIDE WATER SERVICE ROOM - COORDINATE 120VAC NON-TIMING NON-PHOTOCELL CONTINUOUS POWER TO THE CONTROLLER TO BE FURNISHED AND INSTALLED BY THE GENERAL/ELECTRICAL CONTRACTOR

1" RPZ IRRIGATION BACKFLOW PREVENTER - FURNISHED AND INSTALLED BY THE GENERAL CONTRACTOR/ PLUMBING CONTRACTOR

1" IRRIGATION WATER METER W/ 1 1/2" SERVICE LINE TO GREEN SPACE AREA FURNISHED AND INSTALLED BY THE GENERAL CONTRACTOR/ PLUMBING CONTRACTOR (REF: MEP PLANS)

TEE OFF OF DOMESTIC WATER LINE MUST OCCUR PRIOR TO THE DOMESTIC WATERLINE RPZ TO AVOID A DOUBLE BACKFLOW PRESSURE LOSS SITUATION AT 70-75PSI STATIC. IF THE IRRIGATION TEE OFF CANT OCCUR BEFORE THE DOMESTIC RPZ BACKFLOW PREVENTER A BOOSTER PUMP WILL BE REQUIRED

1 1/2" COPPER WATER STUB-OUT TO GREEN SPACE AREA FURNISHED AND INSTALLED BY THE GENERAL CONTRACTOR/ PLUMBING CONTRACTOR - THIS IS THE POINT OF CONNECTION AND START OF THE OWNER FURNISHED AND INSTALLED SYSTEM

1" SHUT-OFF GATE VALVE

1" BRASS TEE FLOW SENSOR - DIRECTLY HARD-WIRED TO COMMUNICATION CARD. DO NOT WIRE TO TWO WIRE PATH, CONTROLLER OR POWER CIRCUITS

MASTER VALVE DECODER - WIRE TO TWO WIRE PATH

1" BRASS MASTER VALVE - NORMALLY CLOSED TYPE

1" QUICK COUPLER VALVE FOR WINTERIZATION BLOW-OUT

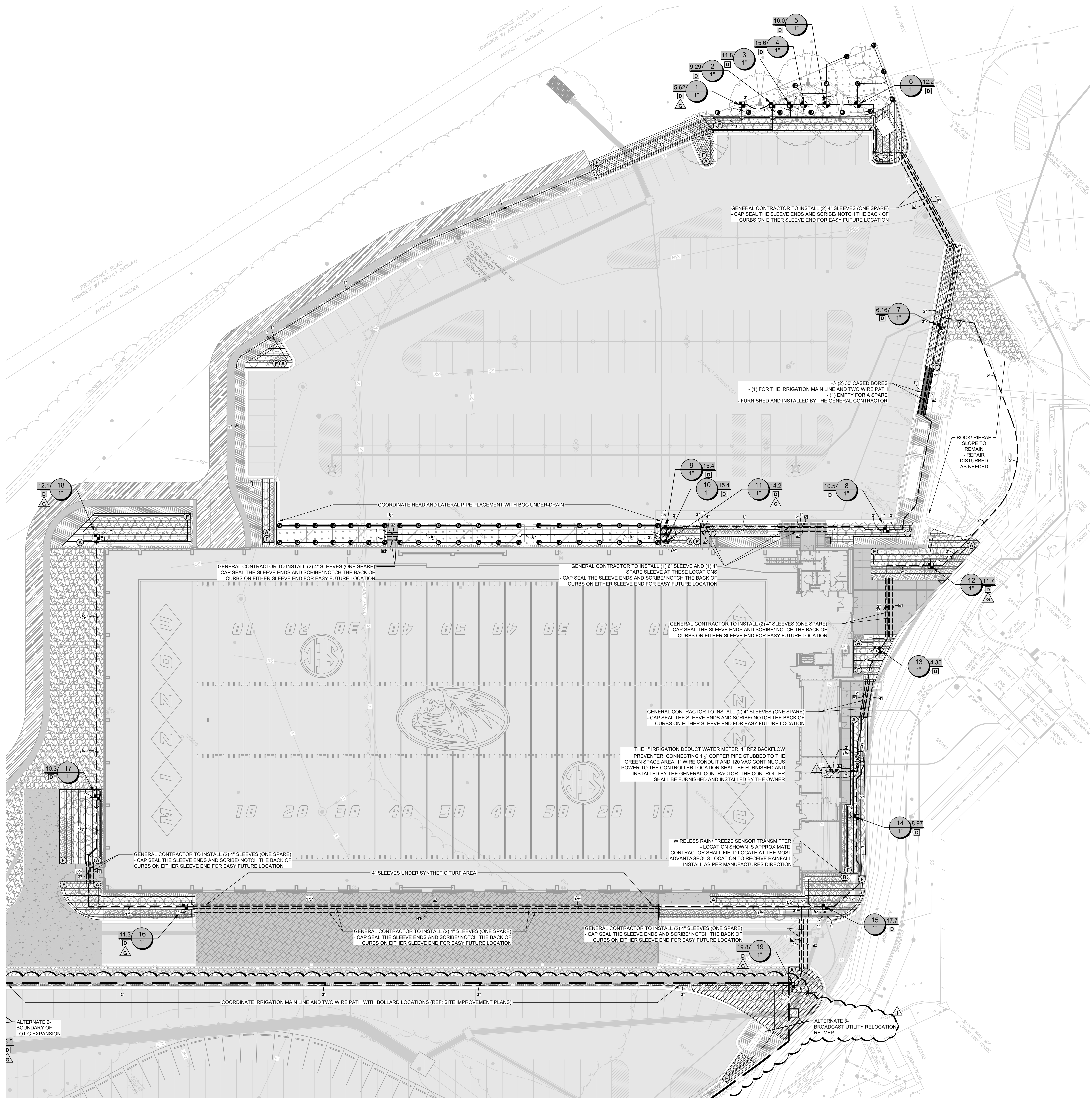
DRIP ZONE CONTROL VALVE PER PLAN

SHEET IR102

1 IRRIGATION PLAN
SCALE: 1" = 30'-0"

2 IRRIGATION - DIAGRAMMATIC POC AND CONTROLLER LOCATION
SCALE: 1" = 10'-0"

SHEET IR103



IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	ARC	PSI
Ⓚ	RAIN BIRD 180G-5AM-FRS VAN SERIES	48	ADJ	30
Ⓛ	RAIN BIRD 180G-5AM-FRS VAN SERIES	23	ADJ	30
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY		
Ⓜ	RAIN BIRD XC2-1-00-FRB-COM 1" WIDE FLOW DRIP CONTROL KIT FOR COMMERCIAL APPLICATIONS. 1" BALL VALVE WITH 1" PRESS VALVE AND 1" PRESSURE REGULATING 40PSI QUICK-CHECK BASKET FILTER. 0.3GPM TO 20GPM.	18		
Ⓟ	RAIN BIRD MD0FCAP DRIPLINE FLUSH VALVE CAP IN COMPRESSION FITTING COURSE. INSTALL ON DRIPLINE LOW POINT IN A 6" ROUND VALVE BOX WITHIN AREA SHOWN.	22		
Ⓜ	RAIN BIRD ARVOSO 1/2" 1/2" AIR RELIEF VALVE. INSTALL ON THE PVC LATERAL HEADER IN A 6" ROUND VALVE BOX.	19		
Ⓜ	AREA TO RECEIVE DRIPLINE RAIN BIRD XP1056-1 1/2" XFD ON SURFACE PRESSURE COMPENSATING LANDSCAPE DRIPLINE. 0.6 GPH EMITTERS AT 1/2" O.C. DRIPLINE. LATERALS SPACED AT 12" APART, WITH EMITTERS OFFSET FOR TRIANGULAR PATTERN. UV RESISTANT. INSTALL WITH RAIN BIRD XP FITTINGS.	20,803 L.F.		
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY		
Ⓜ	WEATHERMATIC SB-1 0F-HP 1" PLASTIC REMOTE CONTROL VALVE, SIZE AS NOTED. FIP WITH FLOW CONTROL.	6		
Ⓜ	WEATHERMATIC SB-1 0F-HP 1-1/2" PLASTIC REMOTE CONTROL VALVE, SIZE AS NOTED. FIP WITH FLOW CONTROL.	1		
Ⓜ	RAIN BIRD 44-LRC 1" 1" BRASS QUICK-COUPLING VALVE, WITH CORROSION-RESISTANT STAINLESS STEEL SPRING, LOCKING THERMOPLASTIC RUBBER COVER, AND 2-PIECE BODY. FOR WINTERIZATION BLOW-OUT.	1		
Ⓜ	MATCO-NORCA 514TX BRASS GATE VALVE, FULL PORT, WITH SOLID WEDGE, IPS, CROSS HANDLE. SAME SIZE AS MAINLINE PIPE.	1		
Ⓜ	WEATHERMATIC 0200CK 1-1/2" BRASS SCHEIDT CONTROL MASTER VALVE.	1		
Ⓜ	FEBCO A60 1" REDUCED PRESSURE BACKFLOW PREVENTER, FURNISHED AND INSTALLED ON 1 1/2" COPPER PIPE WITHIN THE WATER SERVICE ROOM BY THE GENERAL CONTRACTOR/ PLUMBING CONTRACTOR. (REF: MEP PLANS)	1		
Ⓜ	WEATHERMATIC SLSMARTWIR45-1YR-BINDLE-FLO SMARTWIRE SLS6481W-48-ZONE TWO-WIRE CONTROLLER, INTERNAL 120VAC/230VAC TRANSFORMER, LARGE BACKLIT LCD DISPLAY, WIRELESS WEATHER SENSOR FOR ET BASED WATERING, 900 MHZ RANGE, SMARTLINK AIRCARD WITH FLOW WITH 1-YEAR SERVICE PLAN PLUS EXTENDED WARRANTY.	1		
Ⓜ	WEATHERMATIC RFS5 WIRELESS RAIN AND FREEZE SENSOR COMBO. INCLUDED WITH THE CONTROLLER BUNDLE.	1		
Ⓜ	WEATHERMATIC SLSDC1 1 VALVE OPERATION DECODER, DECODES SIGNALS FROM SLSM48DM TO OPEN AND CLOSE VALVES, SURGE PROTECTION, 14 GAUGE PVC-COATED CONNECTING WIRES, FULLY PROGRAMMABLE FOR VALVE ADDRESSES USING SLSM48DM	26		
Ⓜ	WEATHERMATIC SLG0T LIGHTNING ARRESTOR DEVICE. WIRE DIRECTLY TO THE GROUND ROD AS PER THE MANUFACTURERS INSTALLATION INSTRUCTIONS.	8		
Ⓜ	WEATHERMATIC SLSF5-B 1-1/2" BRASS THREADED TEE TYPE INSERT FLOW SENSOR USED WITH THE SMARTLINK FLOW-ARCARD. HARD WIRE DIRECTLY TO SMARTLINK AIRCARD. DO NOT CONNECT THE FLOW SENSOR TO THE CONTROLLER. POWER OR VALVE CIRCUITS INSTALL WITH A SHIELDED DIRECT BURIAL CABLE WITH AT LEAST ONE TWISTED PAIR OF CONDUCTORS. MULTIPLE PAIR CABLE MAY BE USED. USE #10 AWG OR LARGER STRANDED COPPER WIRE CONDUCTORS TO EXTEND THE DISTANCE UP TO 2,000 FEET.	1		
Ⓜ	WATER METER 1" 1" MINIMUM SIZE IRRIGATION WATER METER WITH 1 1/2" MINIMUM SIZE SERVICE LINE INSIDE BUILDING WATER SERVICE ROOM. 1 1/2" PIPE STUB-OUT TO GREEN SPACE AREA. FURNISHED AND INSTALLED BY THE GENERAL CONTRACTOR/ PLUMBING CONTRACTOR. (REF: MEP PLANS)	1		
---	IRRIGATION LATERAL LINE: PVC CLASS 200 SDR 21 1"	4,118 L.F.		
---	IRRIGATION LATERAL LINE: PVC CLASS 200 SDR 21 1 1/2"	219.5 L.F.		
---	IRRIGATION LATERAL LINE: PVC CLASS 200 SDR 21 2"	3.7 L.F.		
---	IRRIGATION MAINLINE: PVC CLASS 200 SDR 21 1 1/2"	625.8 L.F.		
---	IRRIGATION MAINLINE: PVC CLASS 200 SDR 21 2"	26.8 L.F.		
---	IRRIGATION MAINLINE: PVC CLASS 200 SDR 21 2"	1,800 L.F.		
---	PIPE SLEEVE: PVC SCHEDULE 40 4"	896.0 L.F.		
---	TYPICAL PIPE SLEEVE FOR IRRIGATION PIPE AND WIRE. ALL SLEEVES SHALL BE FURNISHED AND INSTALLED BY THE GENERAL CONTRACTOR.			
---	PIPE SLEEVE: PVC SCHEDULE 40 6"	33.1 L.F.		
---	TYPICAL PIPE SLEEVE FOR IRRIGATION PIPE AND WIRE. ALL SLEEVES SHALL BE FURNISHED AND INSTALLED BY THE GENERAL CONTRACTOR.			
---	PIPE SLEEVE: PVC SCHEDULE 40 4"	149.4 L.F.		
---	TYPICAL CASED BORE FOR IRRIGATION PIPE AND WIRE. ALL CASED BORES SHALL BE FURNISHED AND INSTALLED BY THE GENERAL CONTRACTOR.			
Ⓜ	Valve Callout			
Ⓜ	Valve Number			
Ⓜ	Valve Flow			
Ⓜ	Valve Size			

NOTE: ONLY THE IRRIGATION SLEEVES, DEDUCT WATER METER, BACKFLOW PREVENTER, 1 1/2" COPPER PIPE STUB-OUT TO GREEN SPACE AREA, 1" WIRE CONDUIT TO GREEN SPACE AREA AND POWER TO THE CONTROLLER ARE IN THE GENERAL CONTRACTORS WORK SCOPE TO FURNISH AND INSTALL. ALL IRRIGATION MAIN LINE AND LATERAL PIPE, ASSOCIATED FITTINGS, TWO WIRE PATH, VALVES, HEADS, NOZZLES AND OTHER IRRIGATION EQUIPMENT ARE TO BE FURNISHED AND INSTALLED BY THE OWNER.

1 IRRIGATION PLAN
SCALE: 1" = 20'-0"



Project
CP210981 - NEW INDOOR PRACTICE FACILITY

UNIVERSITY OF MISSOURI - COLUMBIA, FOR THE CURATORS OF THE UNIVERSITY OF MISSOURI

1200 S. Providence Rd. Columbia, MO 65201



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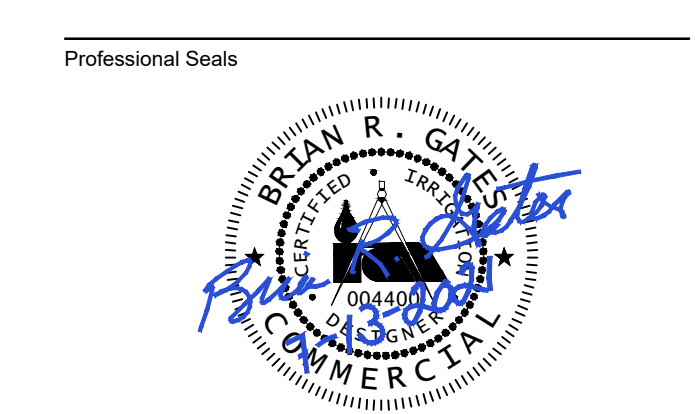
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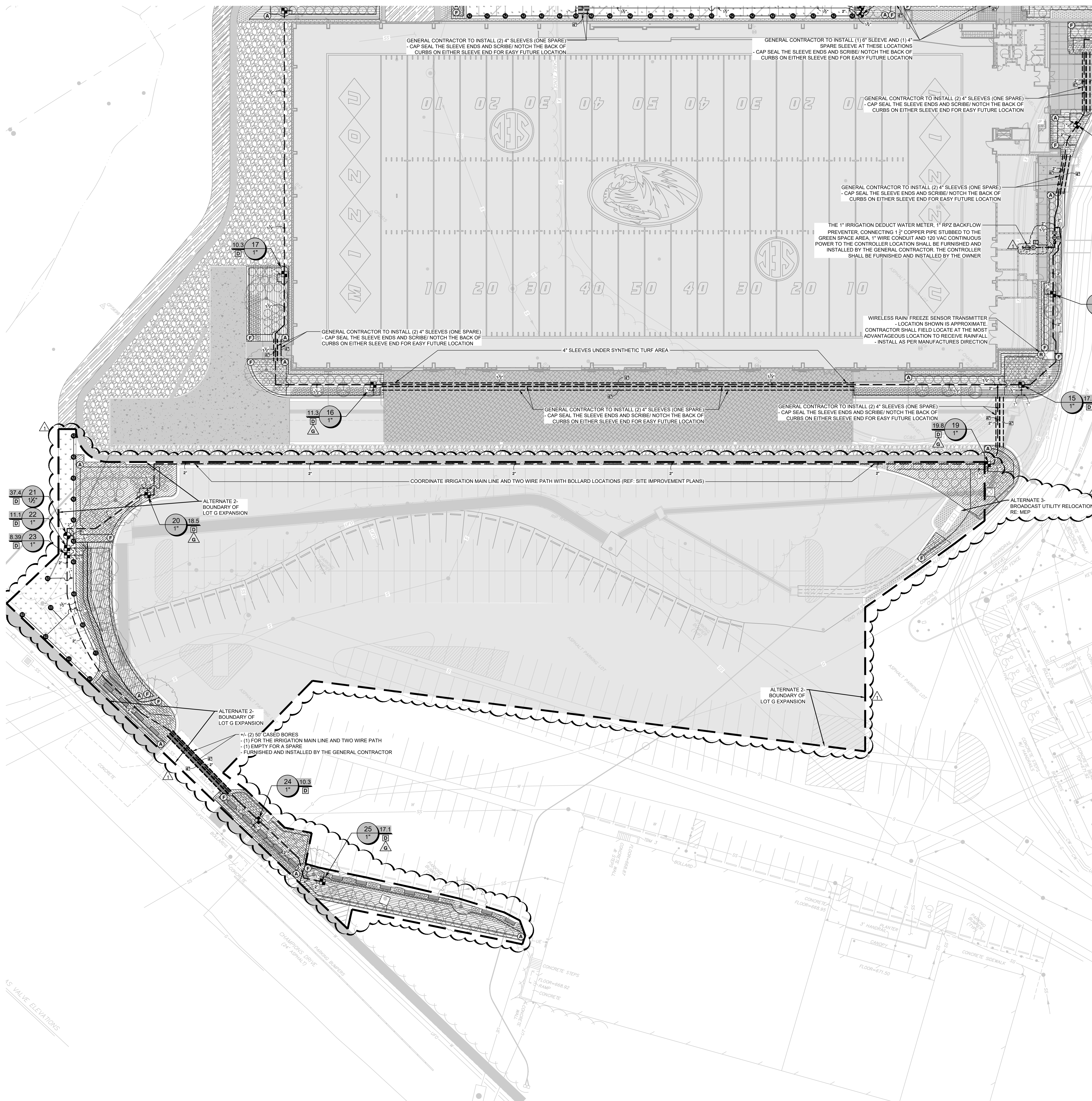


No.	Description	Date
1	Addendum 01	07-23-2021

Issued For: BID DOCUMENTS
Issued Date: 07-13-2021
Project No: 20-700664-00

IRRIGATION PLAN - NORTH ENLARGEMENT

Original is 48" x 36". Do not scale contents of this drawing.
Sheet Number
IR102



IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	ARC	PSI
Ⓚ	RAIN BIRD 180G-SAM-FRS VAN SERIES	48	ADJ	30
Ⓛ	RAIN BIRD 180G-SAM-FRS VAN SERIES	23	ADJ	30
Ⓜ	RAIN BIRD XC2-1-00-FRB-COM 1" WIDE FLOW DRIP CONTROL KIT FOR COMMERCIAL APPLICATIONS. 1" BALL VALVE WITH 1" PRESS VALVE AND 1" PRESSURE REGULATING 40PSI QUICK-CHECK BASKET FILTER. 0.3GPM TO 20GPM.	18		
Ⓟ	RAIN BIRD MDGFCAP DRIPLINE FLUSH VALVE CAP IN COMPRESSION FITTING COURSE. INSTALL ON DRIPLINE LOW POINT IN A 6" ROUND VALVE BOX WITH AREA SHOWN.	22		
Ⓜ	RAIN BIRD ARVOSO 1/2" 1/2" AIR RELIEF VALVE. INSTALL ON THE PVC LATERAL HEADER IN A 6" ROUND VALVE BOX.	19		
Ⓜ	AREA TO RECEIVE DRIPLINE RAIN BIRD XTDS06-12 XFD ON SURFACE PRESSURE COMPENSATING LANDSCAPE DRIPLINE. 0.6 GPH EMITTERS AT 12" O.C. DRIPLINE. LATERALS SPACED AT 12" APART, WITH EMITTERS OFFSET FOR TRIANGULAR PATTERN. UV RESISTANT. INSTALL WITH RAIN BIRD XP FITTINGS.	20,803 L.F.		
Ⓜ	WEATHERMATIC SB-10F-HP 1" PLASTIC REMOTE CONTROL VALVE, SIZE AS NOTED. FIP WITH FLOW CONTROL.	6		
Ⓜ	WEATHERMATIC SB-10F-HP 1-1/2" PLASTIC REMOTE CONTROL VALVE, SIZE AS NOTED. FIP WITH FLOW CONTROL.	1		
Ⓜ	RAIN BIRD 44-LRC 1" 1" BRASS QUICK-COUPLING VALVE, WITH CORROSION-RESISTANT STAINLESS STEEL SPRING, LOCKING THERMOPLASTIC RUBBER COVER, AND 2-PIECE BODY. FOR WINTERIZATION BLOW-OUT.	1		
Ⓜ	MATCO-NORCA 514TX BRASS GATE VALVE, FULL PORT, WITH SOLID WEDGE. IPS. CROSS HANDLE. SAME SIZE AS MAINLINE PIPE.	1		
Ⓜ	WEATHERMATIC 8200CK 1-1/2" BRASS SCISSOR CONTROL MASTER VALVE.	1		
Ⓜ	FRBO A60 1" REDUCED PRESSURE BACKFLOW PREVENTER, FURNISHED AND INSTALLED ON 1-1/2" COPPER PIPE WITHIN THE WATER SERVICE ROOM BY THE GENERAL CONTRACTOR/PLUMBING CONTRACTOR. (REF: MEP PLANS)	1		
Ⓜ	WEATHERMATIC SLMSMARTWIR45-1YR-BINDL-FLO SMARTWIRE SLM648TW 48-ZONE TWO-WIRE CONTROLLER, INTERNAL 120VAC/230VAC TRANSFORMER, LARGE BACKLIT LCD DISPLAY, WIRELESS WEATHER SENSOR FOR ET BASED WATERING, 900 MHZ RANGE, SMARTLINK AIRCARD WITH FLOW WITH 1-YEAR SERVICE PLAN PLUS EXTENDED WARRANTY.	1		
Ⓜ	WEATHERMATIC RFS5 WIRELESS RAIN AND FREEZE SENSOR COMBO. INCLUDED WITH THE CONTROLLER BUNDLE.	1		
Ⓜ	WEATHERMATIC SLDGCI 1) VALVE OPERATION DECODER, DECODES SIGNALS FROM SLM48DM TO OPEN AND CLOSE VALVES, SURGE PROTECTION, 14 GAUGE PVC-COATED CONNECTING WIRES, FULLY PROGRAMMABLE FOR VALVE ADDRESSES USING SLM48DM	26		
Ⓜ	WEATHERMATIC SUGOT LIGHTNING ARRESTOR DEVICE. WIRE DIRECTLY TO THE GROUND ROD AS PER THE MANUFACTURERS INSTALLATION INSTRUCTIONS.	8		
Ⓜ	WEATHERMATIC SLP5-B 1-1/2" BRASS THREADED TEE TYPE INSERT FLOW SENSOR USED WITH THE SMARTLINK FLOW AIRCARD. HARD WIRE DIRECTLY TO SMARTLINK AIRCARD. DO NOT CONNECT THE FLOW SENSOR TO THE CONTROLLER. POWER OR VALVE CIRCUITS INSTALL WITH A SHIELDED DIRECT BURIAL CABLE WITH AT LEAST ONE TWISTED PAIR OF CONDUCTORS. MULTIPLE PAIR CABLE MAY BE USED. USE #20 AWG OR LARGER STRANDED COPPER WIRE CONDUCTORS TO EXTEND THE DISTANCE UP TO 2,000 FEET.	1		
Ⓜ	WATER METER 1" 1" MINIMUM SIZE IRRIGATION WATER METER WITH 1-1/2" MINIMUM SIZE SERVICE LINE INSIDE BUILDING WATER SERVICE ROOM. 1-1/2" PIPE STUB-OUT TO GREEN SPACE AREA. FURNISHED AND INSTALLED BY THE GENERAL CONTRACTOR/PLUMBING CONTRACTOR. (REF: MEP PLANS)	1		
---	IRRIGATION LATERAL LINE: PVC CLASS 200 SDR 21 1"	4,118 L.F.		
---	IRRIGATION LATERAL LINE: PVC CLASS 200 SDR 21 1-1/2"	219.5 L.F.		
---	IRRIGATION LATERAL LINE: PVC CLASS 200 SDR 21 2"	3.7 L.F.		
---	IRRIGATION MAINLINE: PVC CLASS 200 SDR 21 1-1/2"	625.8 L.F.		
---	IRRIGATION MAINLINE: PVC CLASS 200 SDR 21 2"	26.8 L.F.		
---	IRRIGATION MAINLINE: PVC CLASS 200 SDR 21 2"	1,800 L.F.		
---	PIPE SLEEVE: PVC SCHEDULE 40 4"	896.0 L.F.		
---	PIPE SLEEVE: PVC SCHEDULE 40 6"	33.1 L.F.		
---	PIPE SLEEVE: PVC SCHEDULE 40 4"	149.4 L.F.		

NOTE: ONLY THE IRRIGATION SLEEVES, DEDUCT WATER METER, BACKFLOW PREVENTER, 1 1/2" COPPER PIPE STUB-OUT TO GREEN SPACE AREA, 1" WIRE CONDUIT TO GREEN SPACE AREA AND POWER TO THE CONTROLLER ARE IN THE GENERAL CONTRACTORS WORK SCOPE TO FURNISH AND INSTALL. ALL IRRIGATION MAIN LINE AND LATERAL PIPE, ASSOCIATED FITTINGS, TWO WIRE PATH, VALVES, HEADS, NOZZLES AND OTHER IRRIGATION EQUIPMENT ARE TO BE FURNISHED AND INSTALLED BY THE OWNER.



Project
CP210981 - NEW INDOOR PRACTICE FACILITY

UNIVERSITY OF MISSOURI - COLUMBIA, FOR THE CURATORS OF THE UNIVERSITY OF MISSOURI

1200 S. Providence Rd. Columbia, MO 65201



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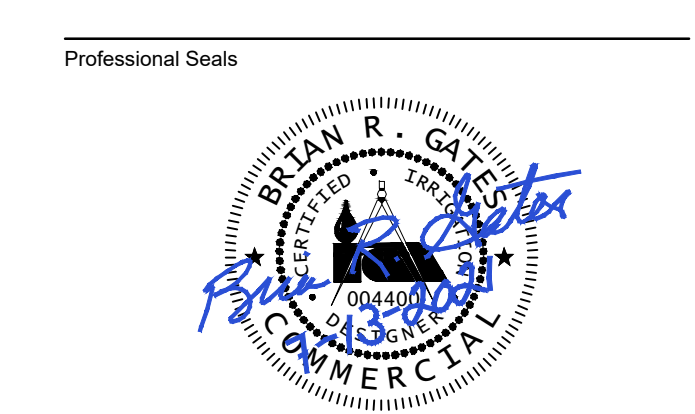
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No.	Description	Date
1	Addendum 01	07-23-2021

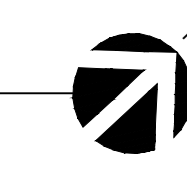
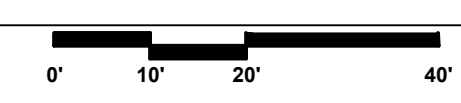
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Issued Date: 07-13-2021
Project No: 20.70064.00

IRRIGATION PLAN - SOUTH ENLARGEMENT

Original is 48 x 36. Do not scale contents of this drawing.
Sheet Number

IR103

1 IRRIGATION PLAN
SCALE: 1" = 20'-0"





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EXPIRES 12/31/2021

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ANDREA C. MULVANY
REGISTERED PROFESSIONAL ENGINEER
STATE OF MISSOURI
EXPIRES 07/23/2021

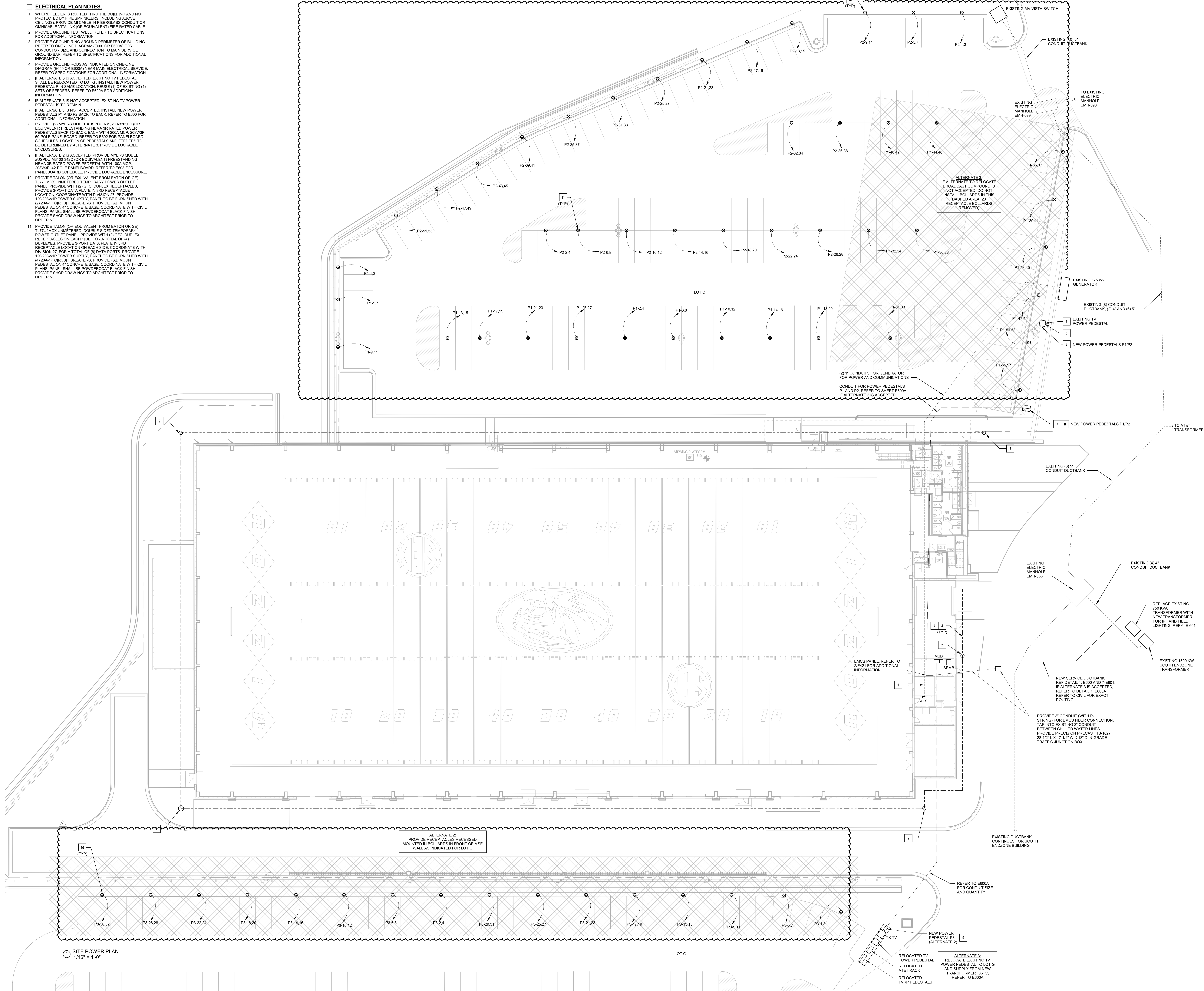
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1	ADDENDUM 01	07/23/2021

Issued For:	BID DOCUMENTS
Issued Date:	07.13.2021
Project No.:	20.70064.00
Sheet Title:	ELECTRICAL SITE PLAN

Original is in 36" x 36" scale contents of this drawing.	
Sheet Number	E002

ELECTRICAL PLAN NOTES:

- WHERE FEEDER IS ROUTED THRU THE BUILDING AND NOT PROTECTED BY FIRE SPRINKLERS (INCLUDING ABOVE CEILING), PROVIDE M CABLE IN FIBERGLASS CONDUIT OR OMNISCABLE VITALK (OR EQUIVALENT) FIRE RATED CABLE.
- PROVIDE GROUND TEST WELL. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- PROVIDE GROUND RING AROUND PERIMETER OF BUILDING. REFER TO ONE-LINE DIAGRAM (E600 OR E600A) FOR CONDUCTOR SIZE AND CONNECTION TO MAIN SERVICE GROUND BAR. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- PROVIDE GROUND RODS AS INDICATED ON ONE-LINE DIAGRAM (E600 OR E600A) NEAR MAIN ELECTRICAL SERVICE. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- IF ALTERNATE 3 IS ACCEPTED, EXISTING TV PEDESTAL SHALL BE RELOCATED TO LOT G. INSTALL NEW POWER PEDESTAL P IN SAME LOCATION. REUSE (1) OF EXISTING (4) SETS OF FEEDERS. REFER TO E600A FOR ADDITIONAL INFORMATION.
- IF ALTERNATE 3 IS NOT ACCEPTED, EXISTING TV POWER PEDESTAL IS TO REMAIN.
- IF ALTERNATE 3 IS NOT ACCEPTED, INSTALL NEW POWER PEDESTALS P1 AND P2 BACK TO BACK. REFER TO E600 FOR ADDITIONAL INFORMATION.
- PROVIDE (2) MYERS MODEL #USPD010-42200-33000C (OR EQUIVALENT) FREESTANDING NEMA 3R RATED POWER PEDESTALS BACK TO BACK, EACH WITH 200A MCP, 208V/3P, 50-HOLE PANELBOARD. REFER TO E602 FOR PANELBOARD SCHEDULES. LOCATION OF PEDESTALS AND FEEDERS TO BE DETERMINED BY ALTERNATE 3. PROVIDE LOCKABLE ENCLOSURES.
- IF ALTERNATE 2 IS ACCEPTED, PROVIDE MYERS MODEL #USPD010-42200-33000C (OR EQUIVALENT) FREESTANDING NEMA 3R RATED POWER PEDESTAL WITH 100A MCP, 208V/3P, 42-HOLE PANELBOARD. REFER TO E603 FOR PANELBOARD SCHEDULE. PROVIDE LOCKABLE ENCLOSURE.
- PROVIDE TALON (OR EQUIVALENT FROM EATON OR GE) ULTRACOMP UNMETERED TEMPORARY POWER OUTLET PANEL. PROVIDE WITH (2) GFCI DUPLEX RECEPTACLES. PROVIDE 3-SHORT DATA PLATE IN 3RD RECEPTACLE LOCATION, COORDINATE WITH DIVISION 27. PROVIDE 120/208V/1P POWER SUPPLY PANEL TO BE FURNISHED WITH (2) 20A-1P CIRCUIT BREAKERS. PROVIDE PAD MOUNT PEDESTAL ON 4" CONCRETE BASE. COORDINATE WITH CIVIL PLANS. PANEL SHALL BE POWDERCOAT BLACK FINISH. PROVIDE SHOP DRAWINGS TO ARCHITECT PRIOR TO ORDERING.
- PROVIDE TALON (OR EQUIVALENT FROM EATON OR GE) ULTRACOMP UNMETERED, DOUBLE-SIDED TEMPORARY POWER OUTLET PANEL. PROVIDE WITH (2) GFCI DUPLEX RECEPTACLES ON EACH SIDE. FOR A TOTAL OF (4) DUPLEXES. PROVIDE 3-SHORT DATA PLATE IN 3RD RECEPTACLE LOCATION ON EACH SIDE. COORDINATE WITH DIVISION 27. FOR A TOTAL OF (8) DATA PORTS. PROVIDE 120/208V/1P POWER SUPPLY PANEL TO BE FURNISHED WITH (4) 20A-1P CIRCUIT BREAKERS. PROVIDE PAD MOUNT PEDESTAL ON 4" CONCRETE BASE. COORDINATE WITH CIVIL PLANS. PANEL SHALL BE POWDERCOAT BLACK FINISH. PROVIDE SHOP DRAWINGS TO ARCHITECT PRIOR TO ORDERING.



10 SITE POWER PLAN
1/16" = 1'-0"

Original is in 36" x 36" scale contents of this drawing.

Sheet Number



Project
CP210981 New Indoor
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07/23/2021
ANDREEA C. MULVANY
LICENSE # PE-2013039892

No. Description Date

1 Addition 01 07/23/2021

2

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FUSIBLE PANELBOARD: EH (NEW)										EQUIPMENT GROUND BUS											
BUS AMPS: 125A MAIN SIZE/TYPE: 60A MAIN FUSE VOLTS/PHASE: 480Y/120 V 3P4W SUPPLIED BY: MSS										FAULT CURRENT: REF 1-LINE FULLY RATED AIC RATED: FULLY RATED AIC RATING: FCA+10% MINIMUM SERVES: NEC 700 LOADS MOUNTING: SURFACE LOCATION: EMER ELEC ROOM		FREE-STANDING POWER PEDESTAL REFER TO SITE POWER PLAN NEMA 3R									
CKT NO.	DESCRIPTION	LOAD TYPE	NOTES	WIRE SIZE	FUSE P AMP	PHASE A	PHASE B	PHASE C	P FUSE/WIRE AMP SIZE	NOTES	LOAD TYPE	DESCRIPTION	CKT NO.								
1	LTG - RESTROOMS	LZ		12	20	1			563	1506			2								
3	EQUIPPED SPACE												4								
5	SPARE												6								
7	LTG - VIEWING PLATFORM	L RP		12	20	1	284	30					8								
9	LTG - REGRUT LEVEL PENDANT	L RP		12	20	1		69	1998				10								
11	LTG - STAIRS	L RP		12	20	1			89	1998			12								
13	EXT LTG - WALL PACKS	L RP		12	20	1	242	0					14								
15	EQUIPPED SPACE												16								
17	EQUIPPED SPACE												18								
19	LTG - ENTRY DOWNLIGHTS	L RP		12	20	1	288	0					20								
21	EQUIPPED SPACE												22								
23	EQUIPPED SPACE												24								
25	LTG - PLAYER/DOOR/LOBBY PENDANT	L RP		12	20	1	242	0					26								
27	EQUIPPED SPACE												28								
29	EQUIPPED SPACE												30								
31	LTG - EXTERIOR CANOPY	L RP		12	20	1	185	0					32								
33	EQUIPPED SPACE												34								
35	EQUIPPED SPACE												36								
37	SPD												38								
39													40								
41													42								
TOTAL LOAD (VA):						3330 VA	3573 VA	3117 VA													
TOTAL AMPS:						12 A	13 A	11 A													
LOAD TYPE										CONNECTED LOAD		DEMAND FACTOR		NEC DEMAND		PANELBOARD NOTES		PANELBOARD TOTALS			
EXISTING LOAD (E)										0 VA		100%		0 VA		RP - VIA RELAY PANEL		TOTAL CONNECTED LOAD		10020 VA	
COOLING (C)										2700 VA		100%		2700 VA				TOTAL NEC LOAD		11589 VA	
HEATING (H)										0 VA		0%		0 VA				TOTAL CONNECTED CURRENT		12 A	
LIGHTING (L)										5963 VA		125%		7454 VA				TOTAL NEC DEMAND CURRENT		14 A	
RECEPTACLES (R)										180 VA		100%		180 VA							
MOTORS (M)										0 VA		100%		0 VA							
SUPPLEMENTAL HEAT (U)										0 VA		100%		0 VA							
MISC EQUIP (Z)										865 VA		100%		865 VA							
REFRIGERATION (F)										0 VA		100%		0 VA							
SIGN/DISPLAY (D)										0 VA		125%		390 VA							
KITCHEN (K)										0 VA		100%		0 VA							
LARGEST MOTOR										312 VA		125%		390 VA							
SHOW WINDOW (W)										0 VA		125%		0 VA							
TRACK LIGHTING										0 VA		100%		0 VA							

FUSIBLE PANELBOARD: EL (NEW)										EQUIPMENT GROUND BUS											
BUS AMPS: 100A MAIN SIZE/TYPE: 50A MAIN FUSE VOLTS/PHASE: 208Y/120 V 3P4W SUPPLIED BY: EH VIA TX-E										FAULT CURRENT: REF 1-LINE FULLY RATED AIC RATED: FULLY RATED AIC RATING: FCA+10% MINIMUM SERVES: NEC 700 LOADS MOUNTING: SURFACE LOCATION: EMER ELEC ROOM		FREE-STANDING POWER PEDESTAL REFER TO SITE POWER PLAN NEMA 3R									
CKT NO.	DESCRIPTION	LOAD TYPE	NOTES	WIRE SIZE	FUSE P AMP	PHASE A	PHASE B	PHASE C	P FUSE/WIRE AMP SIZE	NOTES	LOAD TYPE	DESCRIPTION	CKT NO.								
1	CRU-J			12	20	2			1506	0			2								
3	ROFT - EMER ELEC ROOM	R		12	20	1			1506	0			4								
5	EQUIPPED SPACE												6								
7	LTG - FIRE ALARM PANEL	Z		12	20	1							8								
9	EQUIPPED SPACE												10								
11	PWR - DOOR HARDWARE	Z		12	20	1							12								
13	EQUIPPED SPACE												14								
15	EQUIPPED SPACE												16								
17	SPARE												18								
19	EQUIPPED SPACE												20								
21	EQUIPPED SPACE												22								
23	EQUIPPED SPACE												24								
25	EQUIPPED SPACE												26								
27	EQUIPPED SPACE												28								
29	EQUIPPED SPACE												30								
31	EQUIPPED SPACE												32								
33	EQUIPPED SPACE												34								
35	EQUIPPED SPACE												36								
37	SPD												38								
39													40								
41													42								
TOTAL LOAD (VA):						1506 VA	1506 VA	1030 VA													
TOTAL AMPS:						13 A	13 A	9 A													
LOAD TYPE										CONNECTED LOAD		DEMAND FACTOR		NEC DEMAND		PANELBOARD NOTES		PANELBOARD TOTALS			
EXISTING LOAD (E)										0 VA		100%		0 VA				TOTAL CONNECTED LOAD		4042 VA	
COOLING (C)										2700 VA		100%		2700 VA				TOTAL NEC LOAD		4120 VA	
HEATING (H)										0 VA		0%		0 VA				TOTAL CONNECTED CURRENT		11 A	
LIGHTING (L)										0 VA		125%		0 VA				TOTAL NEC DEMAND CURRENT		11 A	
RECEPTACLES (R)										180 VA		100%		180 VA							
MOTORS (M)										0 VA		100%		0 VA							
SUPPLEMENTAL HEAT (U)										0 VA		100%		0 VA							
MISC EQUIP (Z)										865 VA		100%		865 VA							
REFRIGERATION (F)										0 VA		100%		0 VA							
SIGN/DISPLAY (D)										0 VA		125%		0 VA							
KITCHEN (K)										0 VA		100%		0 VA							
LARGEST MOTOR										312 VA		125%		390 VA							
SHOW WINDOW (W)										0 VA		125%		0 VA							
TRACK LIGHTING										0 VA		100%		0 VA							

PANELBOARD: P1 (NEW)										EQUIPMENT GROUND BUS			
BUS AMPS: 225A MAIN SIZE/TYPE: 200A MCB VOLTS/PHASE: 208Y/120 V 3P4W SUPPLIED BY: A1										FAULT CURRENT: REF 1-LINE FULLY RATED AIC RATED: FULLY RATED AIC RATING: FCA+10% MINIMUM SERVES: LOT C BOLLARDS MOUNTING: SURFACE LOCATION: LOT C		FREE-STANDING POWER PEDESTAL REFER TO SITE POWER PLAN NEMA 3R	
CKT NO.	DESCRIPTION	LOAD TYPE	NOTES	WIRE SIZE	BKR P AMP	PHASE A	PHASE B	PHASE C	P BKR WIRE AMP SIZE	NOTES	LOAD TYPE	DESCRIPTION	CKT NO.
1	LOT C PEDESTAL SOUTH A	R		4	30	2	180	360				LOT C PEDESTAL ROW 1 E	2
3	LOT C PEDESTAL SOUTH B	R		4	30	2	180	360				LOT C PEDESTAL ROW 1 F	4
5	LOT C PEDESTAL SOUTH C	R		4	30	2	180	360				LOT C PEDESTAL ROW 1 G	6
7	LOT C PEDESTAL SOUTH A	R		4	30	2	180	360				LOT C PEDESTAL ROW 1 H	8
9	LOT C PEDESTAL SOUTH B	R		4	30	2	180	360				LOT C PEDESTAL ROW 1 I	10
11	LOT C PEDESTAL SOUTH C	R		4	30	2	180	360				LOT C PEDESTAL ROW 1 J	12



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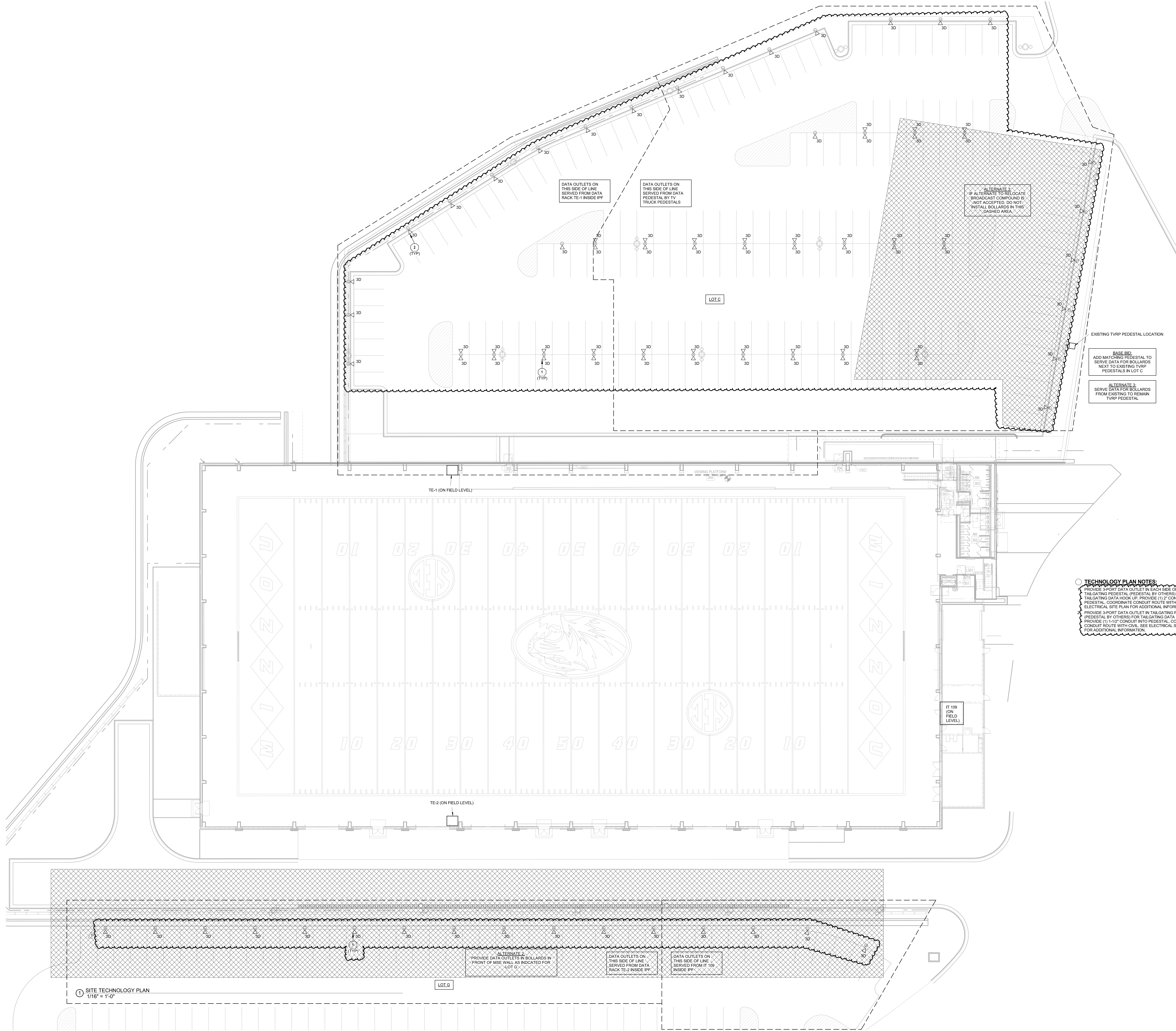
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1	Amendment 01	07/23/2021

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TECHNOLOGY SITE PLAN

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TN001



1 SITE TECHNOLOGY PLAN
1/16" = 1'-0"

LOT G