

# DELTA LOGISTICS

## 9710 SW DAY RD.

### WILSONVILLE, OR

#### PERMIT SET - MARCH 10, 2023

### DRAWING INDEX

G0.01	TITLE SHEET AND DRAWING INDEX
G0.02	PROJECT GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS
G1.10	CODE ANALYSIS
G1.11	ENERGY CODE COMPLIANCE

### CIVIL DRAWINGS

C0.01	CIVIL NOTES AND LEGEND
C1.01	EXISTING CONDITIONS - SURVEY SHEET
C1.10	SITE PLAN
C1.20	GRADING PLAN
C1.21	GRADING CROSS SECTIONS
C1.22	GRADING ENLARGEMENT PLAN
C1.30	UTILITY PLAN
C1.31	UTILITY PLAN - SANITARY CONNECTION
C1.32	SANITARY PROFILE
C2.10	OVERALL RETAINING WALL PLAN
C2.11	EAST RETAINING WALL PROFILE
C2.12	NORTHWEST RETAINING WALL PROFILES
C3.10	CIRCULATION PLAN
C3.11	FIRE SAFETY PLAN
C4.00	EROSION AND SEDIMENT CONTROL COVER SHEET
C4.10	DEMOLITION ESC PLAN
C4.20	CLEARING AND DEMOLITION ESC PLAN
C4.30	MASS EROSION AND STABILIZATION RUNOFF CONTROL PLAN
C4.40	UTILITY CONSTRUCTION ESC PLAN
C4.50	FOUNDATION ESC PLAN
C4.60	EROSION AND SEDIMENT CONTROL PLAN DETAILS
C5.10	CIVIL DETAILS
C5.11	CIVIL DETAILS
C5.12	CIVIL DETAILS
C5.13	CIVIL DETAILS
R0.00	COVER SHEET
R0.01	NOTES, LEGENDS, AND ABBREVIATIONS
R0.02	CROSS SECTIONS
R0.03	DETAILS
R0.04	DETAILS
R1.01	DEMOLITION PLAN
R1.10	PLAN AND PROFILE
R1.20	PLAN ENLARGEMENTS
R1.30	UTILITY PLAN
R1.40	STRIPING AND SIGNAGE PLAN
R1.41	STRIPING AND SIGNAGE DETAILS
R1.50	STREET LIGHTING AND PHOTOMETRICS PLAN

### LANDSCAPE DRAWINGS

L0.01	GENERAL LANDSCAPE NOTES
L0.02	PLANT SCHEDULES AND STORMWATER NOTES
L0.03	TREE REMOVAL PLAN
L0.04	TREE MITIGATION PLAN
L0.05	VEGETATED CORRIDOR ENHANCEMENT PLANTING PLAN
L1.10	PLANTING PLAN - WEST
L1.11	PLANTING PLAN - EAST
L1.20	IRRIGATION PLAN - WEST
L1.21	IRRIGATION PLAN - EAST
L5.10	PLANTING DETAILS
L5.11	IRRIGATION DETAILS

### ARCHITECTURAL DRAWINGS

A0.01	ARCHITECTURAL GENERAL NOTES AND SYMBOLS
A0.02	PARTITION TYPES
A0.09	SITE PLAN
A1.10	OVERALL FLOOR & ROOF PLANS
A2.10	BUILDING ELEVATIONS
A2.20	ENLARGED BUILDING ELEVATIONS
A3.10	BUILDING SECTIONS
A3.20	WALL SECTIONS
A3.21	WALL SECTIONS
A4.10	ENLARGED PLANS
A4.11	ENLARGED PLANS
A5.10	SITE DETAILS
A5.11	EXTERIOR DETAILS
A5.12	EXTERIOR DETAILS
A5.13	ROOF DETAILS
A5.14	CANOPY FRAMING PLAN & DETAILS
A5.20	STOREFRONT & INTERIOR DETAILS
A6.10	DOOR & FINISH SCHEDULE
A7.10	STAIR PLANS

### STRUCTURAL DRAWINGS

S0.00	STRUCTURAL GENERAL NOTES
S0.10	TYPICAL DETAILS
S0.20	TYPICAL INTERIOR LIGHT GAGE STEEL DETAILS
S1.11	FOUNDATION PLAN
S1.15	MEZZANINE FRAMING AND FOUNDATION PLAN
S1.21	ROOF FRAMING AND NAILING & STRAPPING PLANS
S2.10	BUILDING ELEVATIONS
S5.80	TILT DETAILS
S5.81	TILT DETAILS
S5.82	TILT DETAILS
S5.83	MEZZANINE FRAMING DETAILS

### OWNER

DELTA LOGISTICS  
9835 SW COMMERCE CIRCLE,  
WILSONVILLE, OR 97070  
TELEPHONE: 503-695-2200  
CONTACT: IGOR NICHIPORCHIK  
EMAIL: IGOR@DELTAISOV.COM

### SURVEY CONSULTANT

WEDDLE SURVEYING, INC  
6950 SW HAMPTON ST., SUITE 170  
TIGARD, OR 97223  
TELEPHONE: 503-941-9585  
CONTACT: TONY RYAN  
EMAIL: TONY@WEDDLESURVEYING.COM

### GEOTECH CONSULTANT

NVS  
CONTACT: BRETT SHIPTON  
EMAIL: BRETT.SHIPTON@NVS.COM  
TELEPHONE: 503-968-8787

### GENERAL CONTRACTOR

BUILT ENVIRONMENTS NW  
TELEPHONE: 503-650-4086  
CONTACT: ANDREI SHUPENKA  
EMAIL: ANDREIS@BE-NW.COM

### FIRE PROTECTION

TO BE DETERMINED  
TELEPHONE: TBD  
CONTACT: TBD  
EMAIL: TBD

### ARCHITECT

MACKENZIE  
1515 SE WATER AVE., SUITE 100  
PORTLAND, OR 97214  
TELEPHONE: 503-224-9560  
PRINCIPAL: JOSH MCDOWELL  
ARCHITECT OF RECORD: SCOTT MOORE  
PROJECT MANAGER: ADAM GOLDBERG  
EMAIL: AGOLDBERG@MCKNZE.COM

### CIVIL ENGINEER

MACKENZIE  
1515 SE WATER AVE., SUITE 100  
PORTLAND, OR 97214  
TELEPHONE: 503-224-9560  
ENGINEER: BRENT NIELSEN  
EMAIL: BNIELSEN@MCKNZE.COM

### LANDSCAPE ARCHITECT

MACKENZIE  
1515 SE WATER AVE., SUITE 100  
PORTLAND, OR 97214  
TELEPHONE: 503-224-9560  
LANDSCAPE ARCHITECT: NICOLE FERREIRA  
EMAIL: NFERREIRA@MCKNZE.COM

### STRUCTURAL ENGINEER

MACKENZIE  
1515 SE WATER AVE., SUITE 100  
PORTLAND, OR 97214  
TELEPHONE: 503-224-9560  
ENGINEER: RYAN BAKER  
EMAIL: RBAKER@MCKNZE.COM

### SITE INFORMATION

ADDRESS: 9710 SW DAY RD.  
CITY OF WILSONVILLE, OR

REFER TO CIVIL PLANS FOR ADDITIONAL SITE INFORMATION

### BUILDING INFORMATION

AREA	SQUARE FEET
BUILDING	58,116 SF
FLOOR 1 WAREHOUSE	55,969 SF
OFFICE (F)	2,437 SF
OFFICE (F)	(2,037 SF)
FLOOR 2 STORAGE	2,196 SF
STORAGE (F)	1,833 SF

### GEOTECHNICAL REPORT

SEE APPENDIX ONE IN THE SPECIFICATION BOOK FOR  
GEOTECHNICAL REPORT DATED 6/30/2021 AND ADDENDUM #1  
DATED 11/19/2021

### PERMITS

• BUILDING	#
• EARLY GRADING	#
• DEMOLITION	#

### DEFERRED SUBMITTALS

- DESIGN BUILD STAIRS
- OPEN WEB METAL JOIST & GIRDERS
- STOREFRONT SYSTEM AND ATTACHMENT
- BUCKLING - RESTRAINED BRACE & CONNECTION
- MECHANICAL
- ELECTRICAL
- PLUMBING
- FIRE PROTECTION

### SEPARATE PERMITS

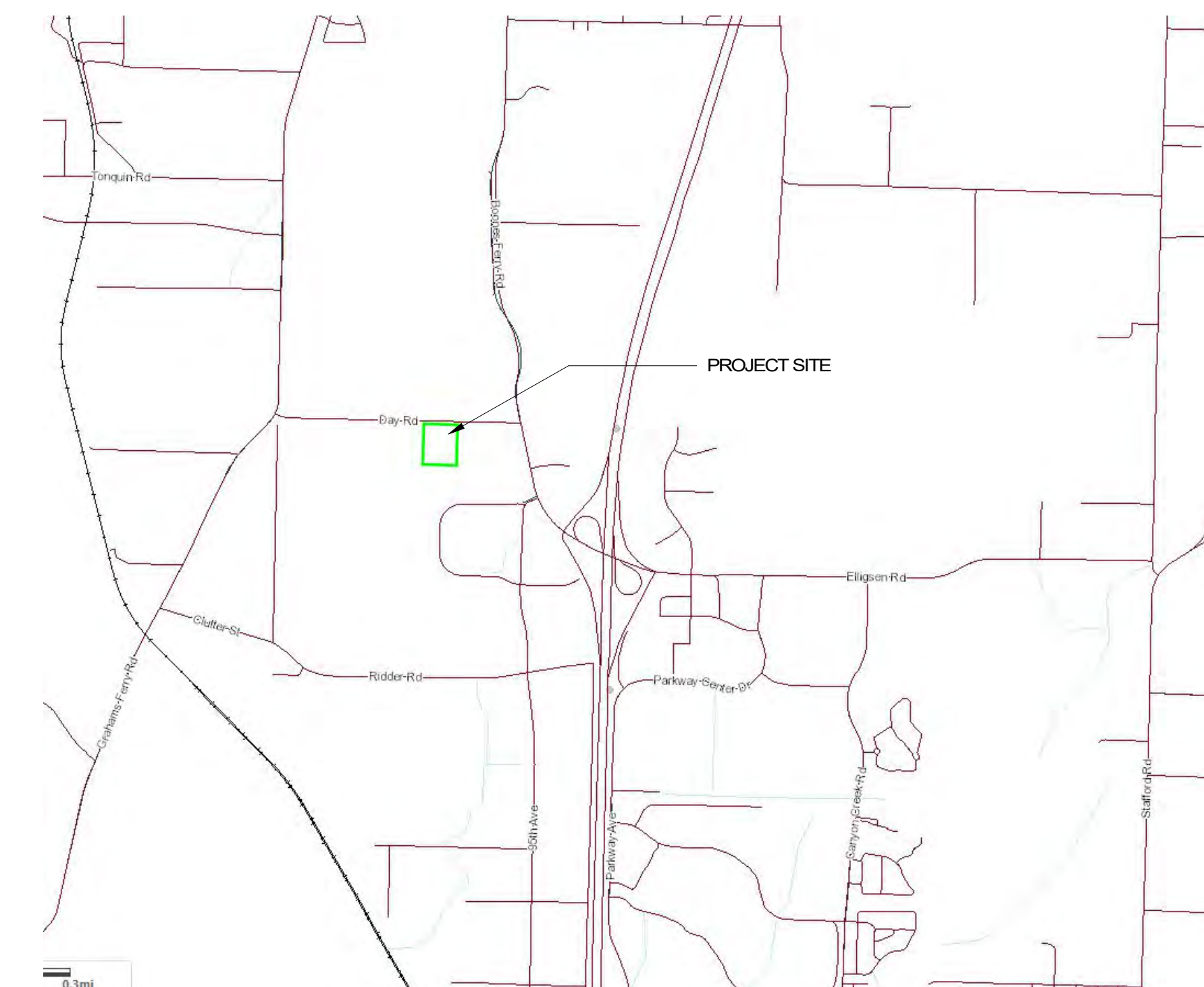
- DESIGN BUILD FIRE SPRINKLER
- DESIGN BUILD FIRE ALARM
- MECHANICAL
- ELECTRICAL
- PLUMBING
- PUBLIC WORKS
- UNDERGROUND FIRE LINES
- EMERGENCY RESPONSE RADIO COVERAGE (ERRC)
- FIRE PUMP (INSTALLED PER NFPA 20)
- DIESEL FUEL TANK (PER 2019 OFC CHAPTER 57 & NFPA 30), INCLUDE FUEL FILL PLAN
- KNOXBOX
- WAREHOUSE RACKING
- WAREHOUSE EQUIPMENT AND ATTACHMENT

### NOTES:

1. DESIGN BUILDERS ARE FULLY RESPONSIBLE FOR THE DESIGN OF THESE SYSTEMS / COMPONENTS. THESE SYSTEMS / COMPONENTS SHOWN ON DOCUMENTS ARE SCHEMATIC ONLY. THEY ARE NOT INTENDED TO REPRESENT FINAL / CODE COMPLIANT DESIGN. PROVIDE DESIGN DOCUMENT SUBMITTAL TO MACKENZIE FOR REVIEW PRIOR TO SUBMITTAL TO CITY OF WILSONVILLE, OREGON.



1 BUILDING PERSPECTIVE  
G0.01



2 VICINITY MAP  
G0.01 NTS



© MACKENZIE  
2023 ALL RIGHTS RESERVED  
THESE DRAWINGS ARE THE PROPERTY OF  
MACKENZIE AND ARE NOT TO BE USED  
OR REPRODUCED IN ANY MANNER,  
WITHOUT PRIOR WRITTEN PERMISSION.

REVISION SCHEDULE		
Delta	Issued As	Issue Date

SHEET TITLE:  
**TITLE SHEET  
AND DRAWING  
INDEX**

City of Wilsonville  
Exhibit B2 DB22-0007

SHEET

**G0.01**

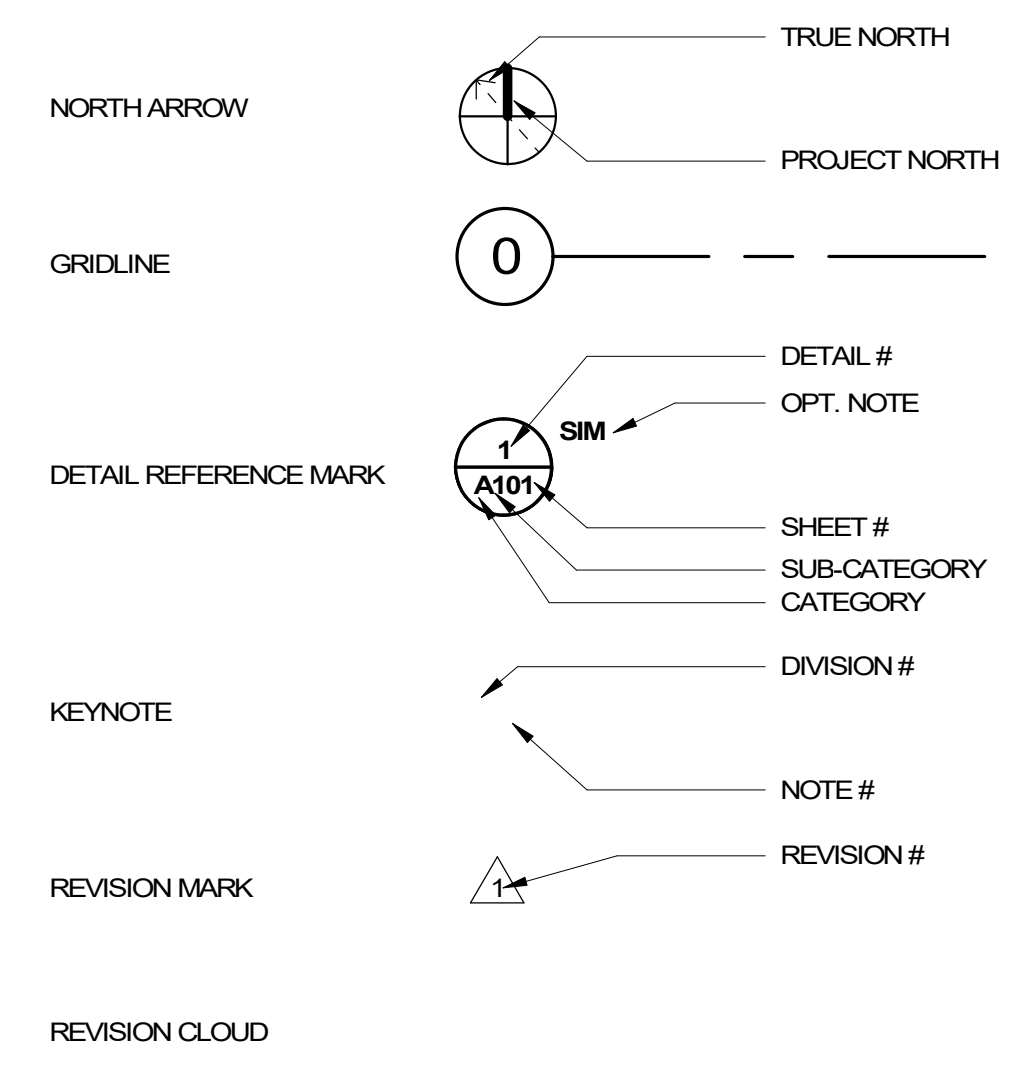
JOB NO. **2200502.00**



## STANDARD ABBREVIATIONS

@	AT	EOP	EDGE OF PANEL	L	ANGLE	R	RADIUS
AB	ANCHOR BOLT	EP	EPOXY PAINT / EDGE OF PAVEMENT	LAM	LAMINATE	RAD	RADIUS
AC	ASPHALTIC CONCRETE	EPDM	ETHYLENE PROPYLENE DIENE MONOMER	LAV	LAVATORY	RB	RUBBER BASE
ACI	AMERICAN CONCRETE INSTITUTE	EQ	EQUAL	LB	LAG BOLT	RBE	ROOF BASE ELEVATION
ADA	AMERICANS WITH DISABILITIES ACT	ES	EACH SIDE	LL	LIVE LOAD	RCP	REFLECTED CEILING PLAN
ADDL	ADDITIONAL	ETC	EPOXY TRAFFIC COATING / ETCETERA	LLV	LONG LEG VERTICAL	RD	ROOF DRAIN
ADJ	ADJACENT/ ADJUSTABLE	EW	EXPOSED STRUCTURE	LONG / LONGIT	LONGITUDINAL	RECEPT	RECEPTIONIST
AESS	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL	EXP	EXPOSED STRUCTURE	LP	LOWPOINT	REF	REFERENCE / REFRIGERATOR
AFF	ABOVE FINISH FLOOR	EXP JT / EJ	EXPANSION JOINT	LRL	LAMINATED STRAND LUMBER	REINFC	REINFORCING
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	EXT	EXTERIOR	LVL	LAMINATED VENEER LUMBER	REQ / REQD	REQUIRED
AL / ALUM	ALUMINIUM	EXT	EXTERIOR	LWC	LIGHTWEIGHT CONCRETE	REV	REVISION
ALT	ALTERNATE	F/	FACE OF	M	MIRROR	RM	ROOM
APPROX	APPROXIMATE	FISTUD	FACE OF STUD	M/EP	MECHANICAL/ELECTRICAL/ PLUMBING OR PROCESS	RO	ROUGH OPENING
ARCH	ARCHITECT(URAL)	FB	FLAT BAR	MANF	MANUFACTURER	ROW	RIGHT OF WAY
ATR	ALL-THREAD ROD	FC	FACE OF CURB	MAS	MASONRY	S	STAIN
B/	BOTTOM OF	FD	FLOOR DRAIN	MATL	MATERIAL	SAT	SUSPENDED ACOUSTICAL TILE
BATT	BATTEN INSULATION	FDC	FIRE DEPARTMENT CONNECTION	MAX	MAXIMUM	SC	SEALED CONCRETE / SOLID CORE WOOD
BD	BOARD	FE	FIRE EXTINGUISHER	MB	MACHINE BOLT	SCHED	SCHEDULE
BLD / BLDG	BUILDING	FFE	FINISH FLOOR ELEVATION	MDF/MDO	MEDIUM DENSITY FIBERBOARD / OVERLAY	SCM	STRUCTURAL CLAY MASONRY
BLK	BLOCK	FIN	FINISH(ED)	MECH	MECHANICAL	SF	STORE FRONT / SQUARE FEET
BLKG	BLOCKING	FL	FLOOR	MECH	MECHANICAL	SFRS	SEISMIC FORCE RESISTING SYSTEM
BM	BENCHMARK / BEAM	FLR	FLOOR	MD	MANUFACTURED	SHTG / SHTG	SHEATHING
BN	BOUNDARY NAIL	FM	FACTORY MUTUAL	MFG	MANUFACTURING	SIM	SIMILAR
BOTT / BOTT	BOTTOM	FN	FIELD NAILING	MFR	MANUFACTURER	SLRS	SEISMIC LOAD RESISTIVE SYSTEM
BRG	BEARING	FND	FOUNDATION	MGR	MANAGER	SLV	SHORT LEG VERTICAL
BSMT	BASEMENT	FOC	FACE OF CONCRETE	MH	MAN HOLE	SMS	SHEET METAL SCREW
BTWN	BETWEEN	FOF	FACE OF FINISH	MIN	MINIMUM	SOG	SLAB ON GRADE
BUR	BUILT UP ROOFING	FOIC	FURNISH BY OWNER INSTALL BY CONTRACTOR	MISC	MISCELLANEOUS	SP	SPACE(D)S
CAB	CABINET	FOM	FACE OF MASONRY	MK	MARK	SPEC(S)	SPECIFICATION(S)
CB	CATCH BASIN	FOS	FACE OF STUD	MLP	METAL LINEAR PANEL	SS	STAINLESS STEEL / SOLID SURFACE
CDF	CONTROLLED DENSITY FILL	FOW	FACE OF WALL	MOD BIT	MODIFIED BITUMINOUS	ST	STONE
CFP	CAST IRON	FS	FAR SIDE	MP	METAL PANEL	STA PT	STATION POINT
CJ	CONTROL JOINT	FT	FEET/FOOT FIRE TREATED FOOTING	MTL	METAL	STAGG	STAGGERED
CL / CL	CENTERLINE	FTG	FOOTING	(N)	NEW	STD	STANDARD
CLNG	CEILING	GA	GAUGE	NFPA	NATIONAL FIRE PROTECTION AGENCY	STIFF	STIFFENER
CLR	CLEAR	GALV	GALVANIZED	NIC	NOT IN CONTRACT	STL	STEEL
CMF	CORRUGATED METAL PIPE	GEN	GENERAL	NO / #	NUMBER	STRUCT	STRUCTURAL
CMU	CONCRETE MASONRY UNIT	GLB	GLULAM BEAM	NR	NOMINAL	SUSP	SUSPENDED
CNTR	CENTER	GLZ	GLAZING	NR	NON RATED	SV	SHEET VINYL
CO	CLEAN OUT	GR	GRADE	NS	NEAR SIDE	T	TEMPERED
COLUMN	COLUMN	GRD	GRADE ONLY	NTE	NOT TO EXCEED	T&B	TOP AND BOTTOM
CONC	CONCRETE	GSA	U.S. GENERAL SERVICES ADMINISTRATION	NTS	NOT TO SCALE	TOP OF	TOP OF
CONF	CONFERENCE	GYP BD	GYPSUM BOARD	O/A	OVERALL	TC	TEMPERATURE / TEMPORARY
CONN	CONNECTION	HB	HOSE BIB	OC	ON CENTER	THK	THICK / THICKNESS
CONN	CONNECTION	HC	HOLLOW CORE / HANDICAP	OD	OUTSIDE DIAMETER	TL	TOTAL LOAD
CONST	CONSTRUCTION	HCM	HOLLOW CLAY MASONRY	OFDI	OWNER FURNISHED, CONTRACTOR INSTALLED	TN	TOE NAIL
CONT	CONTINUOUS	HDPE	HIGH DENSITY POLYETHYLENE	OFDI	OWNER FURNISHED, OWNER INSTALLED	TO	TOP OF
CONTR	CONTRACTOR	HDR	HEADER	OH	OPPOSITE HAND	TOP	TOP OF FOOTING
COORD	COORDINATE	HGR	HARDWARE	OH	OVERHEAD DOOR	TOW	TOP OF WALL
CORR	CORRUGATED(ED) (ION)	HL	HALF LITE	OPNG	OPENING	TPO	THERMOPLASTIC POLYOLEFIN
CPT	CARPET	HM	HOLLOW METAL	OPP	OPPOSITE	TS	TUBE STEEL
CR	CHEMICAL RESISTANT COATING	HMK	HOLLOW METAL KNOCKDOWN	OSF / OFACE	OUTSIDE FACE	TYP	TYPICAL
CSK	COUNTERSINK	HMW	HOLLOW METAL WELDED	OSSC	OREGON STRUCTURAL SPECIALTY CODE	UNDERSIDE	UNDERSIDE
CSP	CONCRETE SEWER PIPE	HR(S)	HOUR(S)	OTS	OPEN TO STRUCTURE	UC	UNDER COUNTER
CTOP	COUNTERTOP	HS	HEADED STUD	P	PAINT	UL	UNDER WRITERS LABORATORIES
CTR / CNTR	CENTER	HSB	HIGH STRENGTH BOLT	P-LAM	PLASTIC LAMINATE	UNO / UON	UNLESS NOTED OTHERWISE
CW	CONCRETE WALL	HSS	HOLLOW STRUCTURAL STEEL	P.E.	PROFESSIONAL ENGINEER	USG	UNITED STATES GYPSUM
d	PENNY(NAILS)	HTG	HEATING	PB	PARTICLE BOARD	VCT	VINYL COMPOSITION TILE
DBA	DEFORMED BAR ANCHOR	HVAC	HEATING, VENTILATION AND AIR CONDITIONING	PDA / PAF	POWDER DRIVEN ANCHORS/POWDER ACTUATED FASTENER	VERT	VERTICAL
DBL	DOUBLE	HWS	HEADED WELD STUD	PJ	PANEL JOINT	VEST	VESTIBULE
DC	DEMAND CRITICAL WELD	IBC	INTERNATIONAL BUILDING CODE	PL / PL	PLATE	VFY	VERIFY
DET / DTL	DETAIL	ID	INSIDE DIAMETER	PLB	PARALLAM BEAM	VIF	VERIFY IN FIELD
DET/DTL	DETAIL	IE	INVERT ELEVATION	PLMB	PLUMBING	VP	VISION PANEL
DF	DRINKING FOUNTAIN / DOUGLAS FIR	IF	INSIDE FACE	PLY / PLYWD	PLYWOOD	W/	WITH
DIA / Ø	DIAMETER	IFC	INTERNATIONAL FIRE CODE	PNL	PANEL	WCRC	COATING WITH CHEMICAL RESISTANCE
DIAPH	DIAPHRAGM	IMC	INTERNATIONAL MECHANICAL CODE	PR	PAIR	W/O	WITHOUT
DIM	DIMENSION	INFO	INFORMATION	PS	POUR STRIP	WB	WOOD BASE
DL	DEAD LOAD	INSP	INSPECTION / INSPECTOR	PSF	POUNDS PER SQUARE FOOT	WC	WATER CLOSET / WALL COVERING
DN	DOWN	INSUL	INSULATION	PSI	POUNDS PER SQUARE INCH	WD	WOOD
DP	DEEP	INT	INTERIOR	PSL	PARALLEL STRAND LUMBER	WF	WIDE FLANGE BEAM
DR	DOOR	IPC	INTERNATIONAL PLUMBING CODE	PT	PRESSURE TREATED / PORCELAIN TILE	WH	WATER HEATER
DS	DOWN SPOUT	JNT	JOINT	PVC	POLY VINYL CHLORIDE	WP	WATER PROOF / WOOD PANELING / WORK POINT
DWG	DRAWING	JST	JOIST	PVMT	PAVEMENT	WR	WATER RESISTANT
DWLS	DOWELS	K	KIPS	KSF	KIPS PER SQUARE FOOT	WRGB	WATER RESISTANT GYPSUM BOARD
(E) / EXIST	EXISTING	KSI	KIPS PER SQUARE INCH	KSF	KIPS PER SQUARE FOOT	WS	WATER STOP / WELDED STUD
E/	EDGE OF	EN	EDGE NAIL	ENGR	ENGINEER	WWF	WELDED WIRE FABRIC
EA	EACH	ENGR	ENGINEER			WWR	WELDED WIRE MESH
EF	EACH FACE						
EIFS	EXTERIOR INSULATION FINISH SYSTEM						
ELECT	ELECTRICAL						
ELEV	ELEVATION						
EN	EDGE NAIL						
ENGR	ENGINEER						

## SYMBOLS AND REFERENCES



## PROJECT GENERAL NOTES

- THE DRAWINGS LOCATE PRODUCTS, SURFACES, AND MATERIALS AND THE NOTES CONVEY DESIGN INTENT. THE PROJECT INTENT IS TO PROVIDE FOR A COMPLETE, WORKING SYSTEM.
- ALL WORKMANSHIP AND MATERIALS SHALL CONFORM TO THE LATEST ADOPTED BUILDING CODE EDITION, AND TO CONDITIONS AND SPECIFICATIONS OF ALL GOVERNING AUTHORITIES. VERIFY AND CONFIRM ALL CONDITIONS, DIMENSIONS, AND LAYOUT INFORMATION PRIOR TO START OF CONSTRUCTION. NOTIFY MACKENZIE OF ANY DISCREPANCIES PRIOR TO START OF WORK. ANY CORRECTION WORK REQUIRED AS A RESULT OF NOT REPORTING SUCH DISCREPANCIES SHALL BE PERFORMED AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR AND SUBCONTRACTORS SHALL CAREFULLY EXAMINE THE SITE AND THE CONSTRUCTION DOCUMENTS OF THE ENTIRE WORK. INCONSISTENCIES IN THE PLANS OR SPECIFICATIONS SHALL BE CALLED TO THE ATTENTION OF MACKENZIE.
- REFER TO ENLARGED PLANS AND ELEVATIONS WHERE INDICATED FOR ADDITIONAL INFORMATION. ENLARGED PLANS TAKE PRECEDENCE OVER PLANS OF SMALLER SCALE, AND DETAILS TAKE PRECEDENCE OVER PLANS. IN THE CASE OF A CONFLICT, THE HIGHEST COST OPTION SHOULD BE PRICED.
- DETAIL REFERENCES SHALL BE APPLIED TO ALL INSTANCES WHERE THE SAME CONDITIONS OCCUR, UNLESS NOTED OTHERWISE.
- THE TERMS "ABOVE FINISH FLOOR" (AFF) AND "FINISH FLOOR ELEVATION" (FFE) REFER TO FINAL FINISHED FLOOR ELEVATION, WHETHER BUILT-UP SLAB, COMPOSITE DECK, OR RAISED ACCESS FLOOR.
- DO NOT SCALE DRAWINGS.
- CUTTING AND DRILLING OF STRUCTURAL MEMBERS NOT DETAILED REQUIRES THE WRITTEN PERMISSION OF THE STRUCTURAL ENGINEER OR RECORD.
- FINISH FLOOR ELEVATION OF 0'-0" = 262.5" AS INDICATED ON CIVIL DRAWINGS.
- SAVE AND RECYCLE DEMOLITION DEBRIS AS APPLICABLE. ALL DEMOLISHED OR REMOVED EXISTING MATERIAL SHALL BE LEGALLY DISPOSED. COORDINATE WITH THE CITY OF WILSONVILLE REQUIREMENTS FOR RECYCLING/RE-USE OF DEMOLITION DEBRIS.
- THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE RESULTING FROM THEIR WORK. THE CONTRACTOR WILL COORDINATE CLEAN UP OF ALL AREAS AFFECTED BY DUST OR ANY MATERIALS, BOTH DURING CONSTRUCTION AND UPON COMPLETION OF THE PROJECT, INCLUDING THE INSIDE OF ALL WINDOWS AS NECESSARY SO THAT THE SPACE IS READY FOR OCCUPANCY BY TENANT.
- ALL DESIGN-BUILD ITEMS, SYSTEMS, AND ELEMENTS ARE TO BE SUBMITTED FOR REVIEW AND APPROVED BY MACKENZIE.
- EXISTING MATERIAL NOTED TO BE RETURNED TO THE OWNER SHALL BE SAFELY STORED AND PROTECTED UNTIL IT IS REMOVED FROM THE SITE BY THE OWNER.



© MACKENZIE  
2023 ALL RIGHTS RESERVED  
THESE DRAWINGS ARE THE PROPERTY OF  
MACKENZIE AND ARE NOT TO BE USED  
OR REPRODUCED IN ANY MANNER,  
WITHOUT PRIOR WRITTEN PERMISSION.

REVISION SCHEDULE		
Delta	Issued As	Issue Date

SHEET TITLE:  
**PROJECT  
GENERAL  
NOTES,  
SYMBOLS,  
AND  
ABBREVIATIONS**

SHEET

**GO.02**

JOB NO. **2200502.00**



**BUILDING INFORMATION**

SITE AREA: SEE CIVIL  
 BUILDING FOOTPRINT: 58,125 SF  
 BUILDING AREA: 60,274 SF

**BUILDING CODE DATA**

BASED ON THE 2019 OREGON STRUCTURAL SPECIALTY CODE

GENERAL CODE ANALYSIS:

CONSTRUCTION TYPE: III-B, TWO STORIES

FIRE PROTECTION:

AUTOMATIC FIRE SPRINKLER SYSTEM THROUGHOUT (ESFR)  
 BUILDING IS DESIGNED WITH AN ESFR SPRINKLERED SYSTEM FOR CLASS I-V NON ENCAPSULATED COMMODITIES PER NFPA 13. SEE FIRE PROTECTION SPECIFICATIONS. FIRE PUMP IS PROPOSED.

OCCUPANCIES:

B AND S-1  
 - BASED ON NON SEPARATED USE PER 508.3

AREA	GROSS SQUARE FEET
BUILDING	62,107 SF (INCLUDING FUTURE STORAGE)
FLOOR 1:	
WAREHOUSE	55,638 SF
OFFICE	2,487 SF
FLOOR 2:	
STORAGE	2,149 SF
FUTURE STORAGE	(1,833 SF)

**BUILDING HEIGHT AND STORIES (TABLES 504.3 AND 504.4):**

ALLOWABLE: 75'-0" / 3 STORIES  
 PROVIDED: 46'-6" / 2 STORIES

**ALLOWABLE BUILDING AREA (TABLE 506.2):**

S-1: 70,000 SF  
 B: 19,000 SF

**BUILDING FIRE RESISTIVE REQUIREMENTS (SEE SECTION 601):**

STRUCTURAL FRAME:	NR
BEARING WALLS - EXTERIOR:	NR
BEARING WALLS - INTERIOR:	NR
NON-BEARING WALLS - EXTERIOR:	NR
NON-BEARING WALLS - INTERIOR:	NR
FLOOR:	NR
ROOF:	NR
SHAFTS (707.3.1)	NONE
STAIRS (1019.1)	NONE
ELECTRICAL ROOM (Table 509)	NR
FIRE PUMP ROOM (913.2.1.1)	NR

ELECTRICAL ROOM REQUIREMENTS PER 509 INCIDENTAL USES  
 TABLE 509 ELECTRICAL INSTALLATIONS AND TRANSFORMERS  
 REQUIREMENTS REFERENCES SEPARATION AND/OR PROTECTION  
 PER ELECTRICAL CODE SECTIONS 110.26, 110.34 AND 450.8-450.48.  
 PER ELECTRICAL DRAWINGS TRANSFORMER VALLTS ARE  
 LOCATED AT EXTERIOR AND NOT WITHIN THE ELECTRICAL ROOM.  
 PER ELECTRICAL DRAWINGS DRY-TYPE TRANSFORMERS  
 INSTALLED INDOORS ARE LESS THE 112.5 KVA AND DOES NOT  
 REQUIRE TO BE LOCATED IN A ROOM WITH RATED CONSTRUCTION  
 PER OESC 450.21.A.

ELECTRICAL ROOM WILL NOT HOUSE BATTERY STORAGE

FIRE BARRIERS SHALL MEET ALL CONTINUITY REQUIREMENTS PER 707.5.

PENETRATIONS THROUGH FIRE BARRIER WALLS SHALL MEET ALL  
 REQUIREMENTS PER SECTION 714 AS WELL AS FIRE RESISTANCE  
 RATED WALLS TO MEET FIRE STOPPING PER SPECIFICATION 07.84  
 00.

FIRE BARRIERS SHALL MEET ALL DUCT AND AIR TRANSFER  
 OPENING REQUIREMENTS PER 707.10

**FIRE SEPARATION DISTANCE (TABLE 602):**

III-B	NORTH	EAST	SOUTH	WEST
WAREHOUSE	100'	33'	104'	635'

- FULLY SPRINKLERED ESFR FIRE SYSTEM
- PORTABLE FIRE EXTINGUISHERS SHALL BE PROVIDED THROUGHOUT BASED ON 2019 OREGON FIRE CODE

**DOORS (SECTION 1010)**  
 RATED, SIZED, AND HARDWARE PROVIDED TO MEET SECTION 1010 - SEE INDIVIDUAL FLOOR PLANS AND SPECIFICATIONS.

- PROVIDE PANIC HARDWARE AT ELECTRICAL ROOM (1010.1.9)

**MEANS OF EGRESS ILLUMINATION (SECTION 1008)**

ILLUMINATION SHALL BE PROVIDED IN THE MEANS OF EGRESS IN  
 ACCORDANCE WITH SECTION 1008.2. UNDER EMERGENCY POWER,  
 MEANS OF EGRESS ILLUMINATION SHALL COMPLY WITH SECTION  
 1008.3.

**FIRE PROTECTION - CHAPTER 9**

BASED ON 2019 OREGON FIRE CODE  
 OEC SECTION 909.1

ROOMS CONTAINING CONTROLS FOR AIR CONTAINING SYSTEMS,  
 SPRINKLER RISERS AND VALVES, OR OTHER FIRE DETECTION,  
 SUPPRESSION OR CONTROL ELEMENTS SHALL BE IDENTIFIED FOR THE  
 USE OF THE FIRE DEPARTMENT.

SIGNS REQUIRED TO IDENTIFY FIRE PROTECTION EQUIPMENT AND  
 EQUIPMENT LOCATIONS TO BE APPROVED BY THE FIRE CODE OFFICIAL.

WHERE REQUIRED AND APPROVED BY THE FIRE CODE OFFICIAL UTILITIES  
 ARE TO BE LEGIBLY MARKED TO IDENTIFY THE JANITOR SPACE IT SERVES.

PENETRATIONS THROUGH FIRE RESISTANCE RATED WALLS SHALL  
 MEET ALL REQUIREMENTS PER SECTION 714 AS WELL AS FIRE  
 RESISTANCE RATED WALLS TO MEET FIRE STOPPING PER  
 SPECIFICATION 07.84 00.

**SECTION 903 - AUTOMATIC SPRINKLER SYSTEMS**  
 FULLY SPRINKLERED NFPA-13 FIRE SYSTEM

**SECTION 906 PORTABLE FIRE EXTINGUISHERS**  
 PROVIDE (1) FIRE EXTINGUISHERS WITH RATING OF NOT LESS THAN 2-  
 A:10-B:C FOR EACH 3,000 SF OF FLOOR AREA. TRAVEL FROM ANY  
 PORTION OF BUILDING NOT TO EXCEED 75'. FIRE EXTINGUISHERS  
 LOCATED WITH OFFICE AREA TO BE SEMI-RECESSED CABINETS.

**OFC APPENDIX D FIRE APPARATUS ACCESS ROADS**  
 SEE SHEET G1.10 FOR FIRE APPARATUS ACCESS.

**OFC CHAPTER 32 - HIGH-PILED COMBUSTIBLE STORAGE**  
 BUILDING IS DESIGNED TO ACCOMMODATE HIGH-PILED STORAGE TYPE  
 I/IV UNENCAPSULATED COMMODITIES UP TO 36' HIGH-PILED STORAGE  
 PER OFC TABLE 3206.2.

- AN AUTOMATIC SPRINKLER SYSTEM IS PROVIDED IN ACCORDANCE WITH OFC SECTION 3206.4
- FIRE DETECTION SYSTEM IS NOT REQUIRED PER TABLE 3206.2
- BUILDING ACCESS IS PROVIDED PER OFC SECTION 3206.6
- SMOKE AND HEAT REMOVAL IS REQUIRED PER TABLE 3206.6
- FOOTNOTE I: AUTOMATIC FIRE-EXTINGUISHING SYSTEM PROVIDED IN ACCORDANCE WITH OFC 3207 AND 3209
- MAX PILE DIMENSIONS - 120' LONG x 40' HIGH
- MAX PILE VOLUME - 400,000 CUBIC FEET

**MEANS OF EGRESS**

**SECTION 1008 - MEANS OF EGRESS ILLUMINATION**

- PROVIDE MEANS OF EGRESS ILLUMINATION AT A MINIMUM OF ONE FOOT CANDLE AT PATH OF EGRESS TO MEET SECTION 1008. EXTEND 5'-0" OUTSIDE EGRESS DOORS.
- WAREHOUSE OFFICE PROVIDE:
  - EMERGENCY POWER FOR MIN 90 MINUTES (BATTERY BACK-UP)
  - AVERAGE INITIAL ILLUMINATION OF 1 FOOT-CANDLE(11 LUX)
  - MAXIMUM UNIFORMITY RATIO OF 40:1
  - SEE FLOOR PLANS FOR PATH

**SECTION 1010 - DOORS, GATES AND TURNSTILES**

- EXTERIOR DOORS SIZED AND HARDWARE PROVIDED TO MEET SECTION. SEE FLOOR PLAN AND DOOR HARDWARE. ALL DOOR HARDWARE TO COMPLY WITH ADA REQUIREMENTS. SEE SPECS.
- THRESHOLDS TO COMPLY WITH 1010.1.7
- HARDWARE ON DOORS REQUIRED TO BE ACCESSIBLE SHALL COMPLY WITH 1008.1.9.1
- HARDWARE HEIGHT TO COMPLY WITH 1010.1.9.2
- LOCKS AND LATCHES TO COMPLY 1010.1.9.4
- BOLT LOOKS ARE NOT PERMITTED UNLESS MEETING 1010.1.9.5 EXCEPTIONS
- THE UNLATCHING OF ANY DOOR OR LEAF SHALL COMPLY 1010.1.9.6

**SECTION 1013 - EXIT SIGNS**

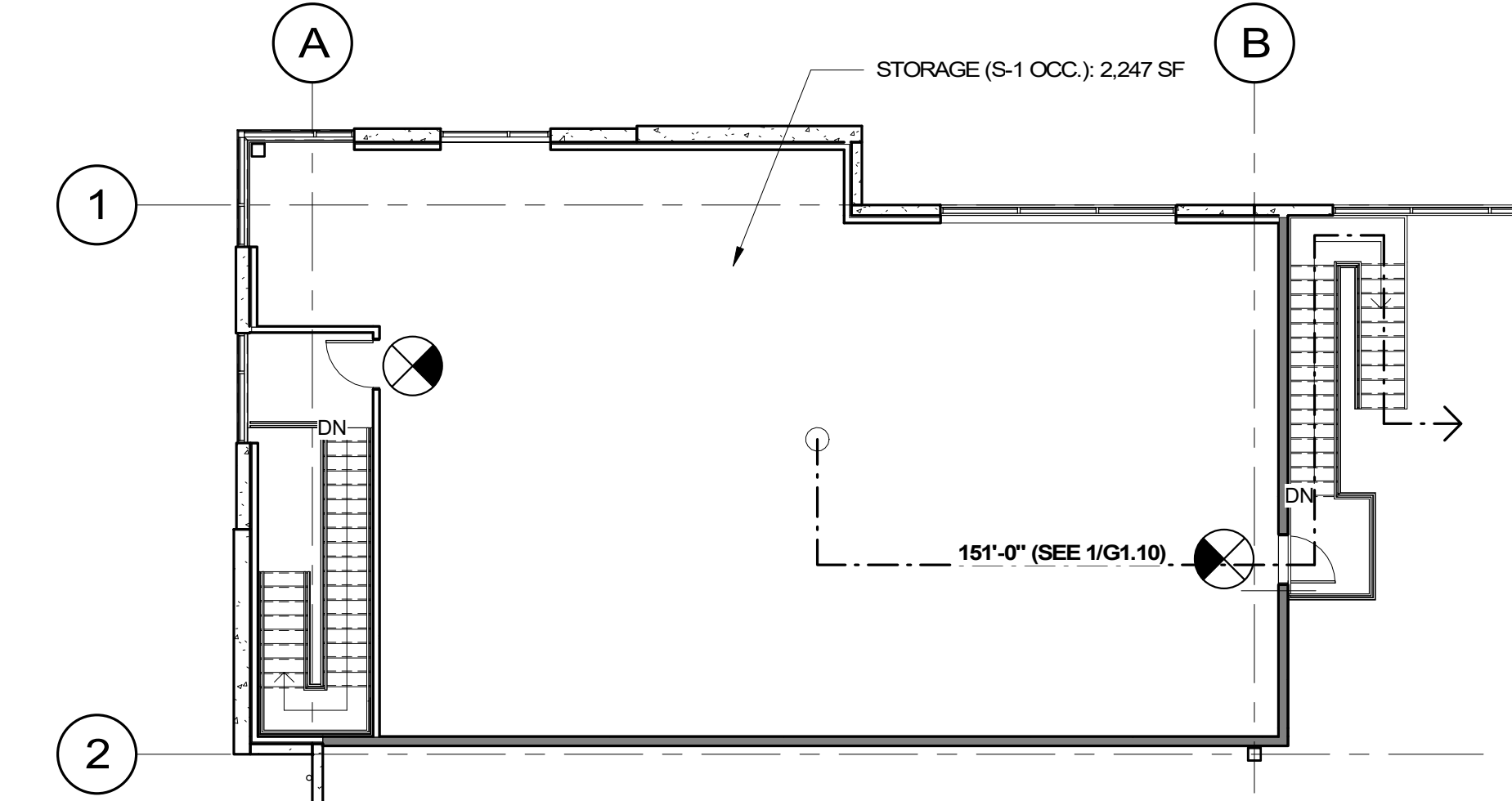
- PROVIDE EXIT SIGNAGE TO MEET SECTION 1013.1.

**SECTION 1017 - EXIT ACCESS**

- EXIT ACCESS TRAVEL DISTANCE PER TABLE 1017.2
  - S-1 (SPRINKLERED): 250'
  - B (WITHOUT SPRINKLERS): 200'

**SECTION 1028 - EXIT DISCHARGE**

- ALL EXITS DISCHARGE AT GROUND LEVEL



**2 CODE PLAN - SECOND FLOOR**  
 G1.10 1" = 10'-0"

USE	OCCUPANCY				WATER CLOSETS			LAVATORIES			DRINKING FOUNTAINS			
	OCCUPANCY TYPE	LOAD FACTOR 1004.1.2	AREA	OCCUPANCY LOAD	RATIO	MEN'S WATER CLOSETS	WOMEN'S WATER CLOSETS	UNISEX WATER CLOSETS	RATIO	MEN'S LAVATORIES	WOMEN'S LAVATORIES	UNISEX LAVATORIES	RATIO	RATIO
OFFICE	B		2,443.00	60	1 PER 25 ≤ 50, 1 PER 50 REMAINDER	1.20	1.20	-	1 PER 40 ≤ 80, 1 PER 80 REMAINDER	0.75	0.75	-	N/A	-
OFFICE (150LOAD FACTOR)		150	1,693.00	12										
OFFICE (15 LOAD FACTOR)		15	590.00	40										
STORAGE	S-1	300	2,149.00	8										
WAREHOUSE	S-1	500	55,682.00	112	1 PER 100	0.56	0.56	-	1 PER 100	0.56	0.56	-	N/A	-
SUBTOTALS						1.76	1.76	-		1.31	1.31	-	-	-
REQUIRED TOTALS			60,274.00			2	2	-		2	2	-	-	-
PROVIDED						2	2	1		2	2	1	-	-

CODE SECTION	OCCUPANCY				1005			1006.2.1		1017		1006			
	OCCUPANCY TYPE (CHAP. 3)	LOAD FACTOR 1004.1.2	AREA	OCCUPANT LOAD (1004.1.1)	EGRESS WIDTH FACTOR	EGRESS WIDTH	WIDTH PROVIDED	COMMON PATH REQUIRED	COMMON PATH PROVIDED	MIN. EXIT DISTANCE	EXIT DISTANCE PROVIDED	MAX TRAVEL DISTANCE	TRAVEL DISTANCE PROVIDED	EXITS REQUIRED	EXITS PROVIDED
BUSINESS AREAS	B	150	1,853	13	0.2	3"		100'-0"	44'-0"	32'-4"	64'-8"	200'-0"	84'-6"	1	2
100 VESTIBULE			100												
101 OPEN OFFICE			1,040												
107 WOMENS			175												
106 MENS			175												
108 JAN.			55												
109 W/C			58												
103 OFFICE			125												
104 OFFICE			125												
UNCONCENTRATED	B	15	590	40	0.2	8"		100'-0"	44'-0"	N/A	N/A			1	1
105 BREAK			315												
105A DATA			40												
102 CONFERENCE			235												
WAREHOUSE	S-1	500	54,985	110	0.2	22"		100'-0"	N/A	211'-4"		250'-0"	143'-6"	2	5
001 WAREHOUSE			54,985												
STORAGE	S-1	300	2,846	10	0.2	2"		100'-0"	N/A	211'-4"		250'-0"	151'-0"	2	2
002 ELECTRICAL			280												
005 FIRE PUMP			417												
200 STORAGE			2,149												
BUILDING TOTAL			60,274	163		33"	216"								

**GENERAL NOTES**

- A. THIS SHEET IS MEANT FOR CODE REVIEW PURPOSES ONLY.
- B. SEE SHEET A1.10 FOR ADDITIONAL PLAN INFORMATION.
- C. EMERGENCY LIGHTING ALONG THE EGRESS PATH SHALL NOT BE LESS THAN 1 FOOT-CANDLE AT THE FLOOR LEVEL AT ALL POINTS ALONG THE EGRESS PATH. A MAXIMUM-TO-MINIMUM ILLUMINATION UNIFORMITY RATIO OF 40:1 SHALL NOT BE EXCEEDED TO MEET ALL REQUIREMENTS OF SECTION 1008.
- D. SECTION 1010.1.1 REQUIRES A CLEAR DOOR WIDTH OF 32". ALL PROVIDED DOORS COMPLY.

**GOVERNING CODES**

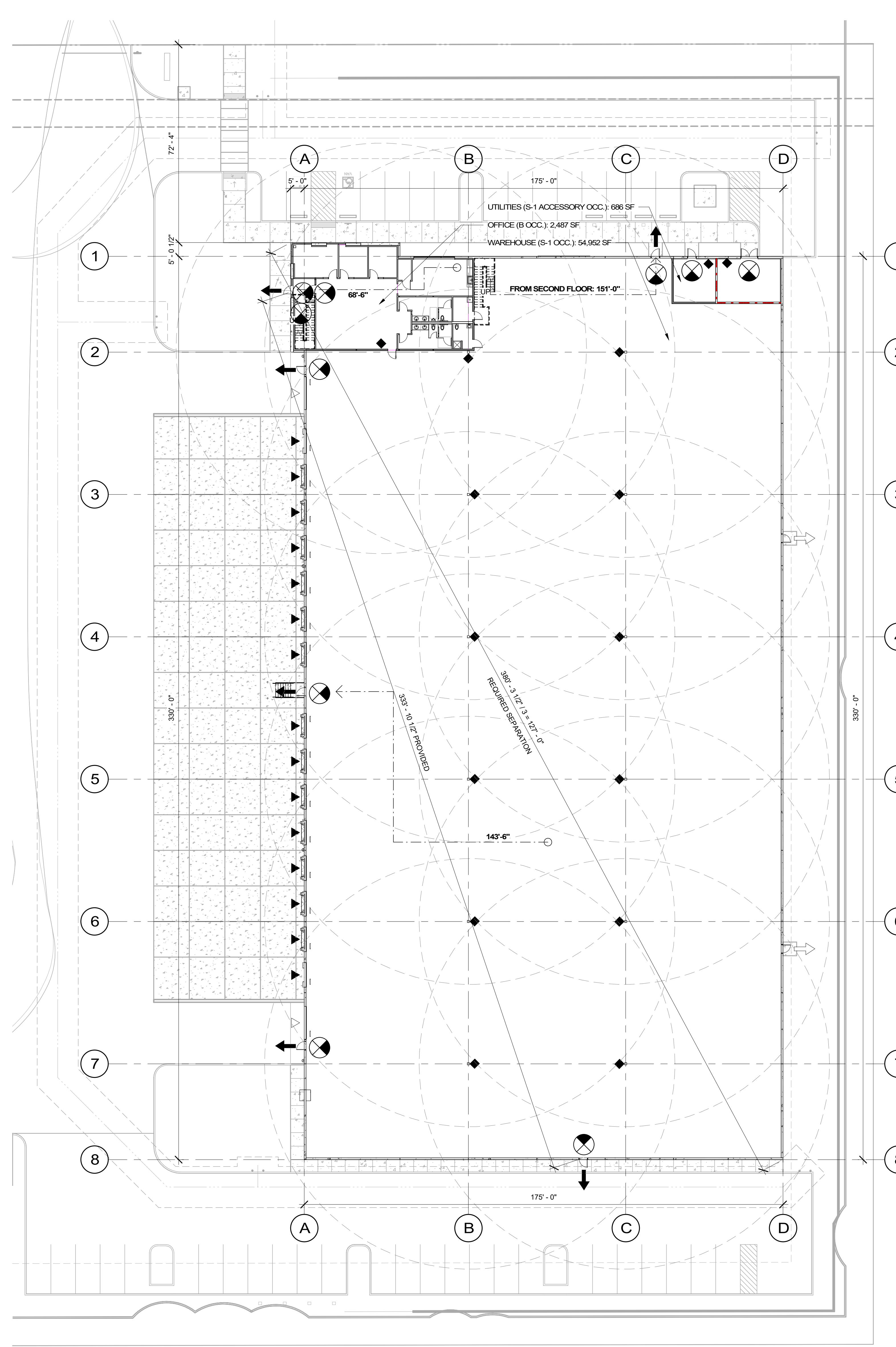
2019 OREGON STRUCTURAL SPECIALTY CODE  
 2021 OREGON ENERGY EFFICIENCY CODE  
 2019 OREGON MECHANICAL SPECIALTY CODE  
 2021 OREGON ELECTRICAL SPECIALTY CODE  
 2021 OREGON PLUMBING SPECIALTY CODE  
 2019 OREGON FIRE CODE  
 ICC A117.1-2009 ACCESSIBILITY

**LEGEND**

- DOCK HIGH OVERHEAD DOOR
- DRIVE IN OVERHEAD DOOR
- FIRE EXTINGUISHER LOCATION (75' CLEARANCE RADIIUS)  
 GC TO COORDINATE FINAL QUANTITIES & LOCATIONS WITH FIRE MARSHAL
- EXIT (W/ OCCUPANT LOAD) 21
- FIRE ACCESS DOOR
- PROVIDE EMERGENCY ILLUMINATED EXIT SIGNS PER THESE LOCATIONS
- MAXIMUM TRAVEL DISTANCE

**WALL TYPES**

- CONCRETE TILT PANEL - SEE STRUCTURAL ELEVATIONS FOR THICKNESSES
- 1HR RATED WALL PER 11/A5.20
- FULL HEIGHT WALL PER 12/A5.20
- STICK-PIN INSULATION 10/A5.20
- INTERIOR PARTITION PER 13/15/A5.20



**1 CODE PLAN - FIRST FLOOR**  
 G1.10 1" = 20'-0"



Portland, OR 503.224.9560  
 Vancouver, WA 360.695.7879  
 Seattle, WA 206.749.9993  
 www.mckrze.com

**MACKENZIE**  
 DESIGN PARTNER • CLIENT PARTNER

**Delta Logistics**  
 9835 SW COMMERCE  
 CIRCLE,  
 WILSONVILLE, OR  
 97070

**DELTA LOGISTICS**  
 9710 SW DAY RD.  
 CITY OF  
 WILSONVILLE, OR



© MACKENZIE  
 2023 ALL RIGHTS RESERVED  
 THESE DRAWINGS ARE THE PROPERTY OF  
 MACKENZIE AND ARE NOT TO BE USED  
 OR REPRODUCED IN ANY MANNER,  
 WITHOUT PRIOR WRITTEN PERMISSION.

REVISION SCHEDULE		
Delta	Issued As	Issue Date
A	REV 1	7/26/22

SHEET TITLE:  
**CODE ANALYSIS**

SHEET

**G1.10**

JOB NO. **2200502.00**



COMcheck Software Version COMcheckWeb  
Envelope Compliance Certificate

Project Information

Energy Code: 90.1 (2019) Standard  
 Project Title: Delta Logistics - Wilsonville  
 Location: Wilsonville, Oregon  
 Climate Zone: 4C  
 Project Type: New Construction  
 Vertical Glazing / Wall Area: 5%  
 Skylight / Roof Area: 1%  
 Performance Sim. Specs: EnergyPlus 8.1.0.009 (EPW: USA\_OR\_Portland.intLAP.726980\_TMY3.epw)

Construction Site: 9710 SW Day Road, Wilsonville, Oregon 97070  
 Owner/Agent: Igor Nichiporchik, Delta Logistics, 9835 SW Commerce Circle, Wilsonville, Oregon 97070, 503-665-2200, igor@deltalog.com  
 Designer/Contractor: Adam Goldberger, Mackenzie, 1315 SE Water Ave, Suite 100, Portland, Oregon 97214, 8476482232, agoldberg@mcknzie.com

Building Area	Floor Area
1-Warehouse and Utilities (Warehouse) - Semiheated	55638
2-Office and Storage (Office) - Nonresidential	4636

Envelope Assemblies

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor
Roof: Insulation Entirely Above Deck, [Bldg. Use 1 - Warehouse and Utilities]	55682	20.0	0.048	0.093	
Skylight: Metal Frame: Plastic, with Curb, Perf. Specs.: Product ID N/A, SHGC 0.35, VT 0.64, [Bldg. Use 1 - Warehouse and Utilities] (b)	576		0.450	0.750	
Roof: Insulation Entirely Above Deck, [Bldg. Use 2 - Office and Storage]	2443	20.0	0.048	0.032	
OFFICE SLAB: Unheated Slab-On-Grade, [Bldg. Use 2 - Office and Storage] (c)	112		0.730	0.520	
WAREHOUSE SLAB: Unheated Slab-On-Grade, [Bldg. Use 1 - Warehouse and Utilities] (c)	911		0.730	0.730	
NORTH TILT WALL - (furring at office) NORTH: Solid Concrete, 12in. Thickness, Normal Density, Furring: Metal, [Bldg. Use 2 - Office and Storage]	394	13.0	0.0	0.138	0.104
Window: Metal Frame: Fixed, Perf. Specs.: Product ID N/A, SHGC 0.40, VT 0.50, [Bldg. Use 2 - Office and Storage] (b)	140		0.450	0.360	
TILT WALL - (stickpin at office): Solid Concrete, 10in. Thickness, Normal Density, Furring: None, [Bldg. Use 2 - Office and Storage]	952	13.0	0.067	0.104	
Window: Metal Frame: Fixed, Perf. Specs.: Product ID N/A, SHGC 0.40, VT 0.50, [Bldg. Use 2 - Office and Storage] (b)	224		0.450	0.360	
TILT WALL - NORTH: Solid Concrete, 8in. Thickness, Normal Density, Furring: None, [Bldg. Use 1 - Warehouse and Utilities]	2637		0.0	0.740	0.580
Man Door: Insulated Metal, Swinging, [Bldg. Use 1 - Warehouse and Utilities]	21		0.130	0.370	

Project Title: Delta Logistics - Wilsonville Copy 2  
 Data filename:   
 Report date: 01/17/23  
 Page 1 of 10

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor
Window: Metal Frame: Fixed, Perf. Specs.: Product ID N/A, SHGC 0.40, VT 0.50, [Bldg. Use 1 - Warehouse and Utilities] (b)	315		0.450	0.500	
TILT WALL - (furring at office) NORTH: Solid Concrete, 8in. Thickness, Normal Density, Furring: Metal, [Bldg. Use 2 - Office and Storage]	295	13.0	0.0	0.142	0.104
Window: Metal Frame: Fixed, Perf. Specs.: Product ID N/A, SHGC 0.40, VT 0.50, [Bldg. Use 2 - Office and Storage] (b)	97		0.450	0.360	
TILT WALL - (stickpin at office) NORTH: Solid Concrete, 8in. Thickness, Normal Density, Furring: None, [Bldg. Use 2 - Office and Storage]	706	13.0	0.068	0.104	
Window: Metal Frame: Fixed, Perf. Specs.: Product ID N/A, SHGC 0.40, VT 0.50, [Bldg. Use 2 - Office and Storage] (b)	105		0.450	0.360	
TILT WALL - (furring at riser) NORTH: Solid Concrete, 8in. Thickness, Normal Density, Furring: Metal, [Bldg. Use 1 - Warehouse and Utilities]	453	13.0	0.0	0.142	0.580
Door: Insulated Metal, Swinging, [Bldg. Use 1 - Warehouse and Utilities]	63		0.130	0.370	
Ext. Wall: Solid Concrete, 8in. Thickness, Normal Density, Furring: None, [Bldg. Use 1 - Warehouse and Utilities]	1037	13.0	0.068	0.580	
EAST TILT WALL (furring at riser) - EAST: Solid Concrete, 8in. Thickness, Normal Density, Furring: Metal, [Bldg. Use 1 - Warehouse and Utilities]	160	13.0	0.0	0.142	0.580
TILT WALL (stickpin at riser) - EAST: Solid Concrete, 8in. Thickness, Normal Density, Furring: None, [Bldg. Use 1 - Warehouse and Utilities]	429	13.0	0.068	0.580	
TILT WALL - EAST: Solid Concrete, 8in. Thickness, Normal Density, Furring: None, [Bldg. Use 1 - Warehouse and Utilities]	11516		0.0	0.740	0.580
Man Door: Insulated Metal, Swinging, [Bldg. Use 1 - Warehouse and Utilities]	42		0.130	0.370	
SOUTH TILT WALL - SOUTH: Solid Concrete, 8in. Thickness, Normal Density, Furring: None, [Bldg. Use 1 - Warehouse and Utilities]	6071		0.0	0.740	0.580
Man Door: Insulated Metal, Swinging, [Bldg. Use 1 - Warehouse and Utilities]	21		0.130	0.370	
Window: Metal Frame: Fixed, Perf. Specs.: Product ID N/A, SHGC 0.40, VT 0.50, [Bldg. Use 1 - Warehouse and Utilities] (b)	525		0.450	0.500	
WEST TILT WALL - WEST: Solid Concrete, 8in. Thickness, Normal Density, Furring: None, [Bldg. Use 1 - Warehouse and Utilities]	9747		0.0	0.740	0.580
Window: Metal Frame: Fixed, Perf. Specs.: Product ID N/A, SHGC 0.40, VT 0.50, [Bldg. Use 1 - Warehouse and Utilities] (b)	148		0.450	0.500	
Man Door: Insulated Metal, Swinging, [Bldg. Use 1 - Warehouse and Utilities]	63		0.130	0.370	
Roll-Up Door: Insulated Metal, Non-Swinging, [Bldg. Use 1 - Warehouse and Utilities]	1686		0.130	0.360	
TILT WALL - (furring office) WEST: Solid Concrete, 12in. Thickness, Normal Density, Furring: Metal, [Bldg. Use 2 - Office and Storage]	438	13.0	0.0	0.138	0.104
Window: Metal Frame: Fixed, Perf. Specs.: Product ID N/A, SHGC 0.40, VT 0.50, [Bldg. Use 2 - Office and Storage] (b)	141		0.450	0.360	
TILT WALL - (stickpin at office) WEST: Solid Concrete, 10in. Thickness, Normal Density, Furring: None, [Bldg. Use 2 - Office and Storage]	1006	13.0	0.067	0.104	
Window: Metal Frame: Fixed, Perf. Specs.: Product ID N/A, SHGC 0.40, VT 0.50, [Bldg. Use 2 - Office and Storage] (b)	225		0.450	0.360	

(a) Budget U-factors are used for software baseline calculations ONLY, and are not code requirements.  
 (b) Fenestration product performance must be certified in accordance with NFRC and requires supporting documentation.  
 (c) Slab-On-Grade proposed and budget U-factors shown in table are F-factors.

Project Title: Delta Logistics - Wilsonville Copy 2  
 Data filename:   
 Report date: 01/17/23  
 Page 2 of 10

Envelope PASSES: Design 1% better than code

Envelope Compliance Statement

Compliance Statement: The proposed envelope design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed envelope systems have been designed to meet the 2019 Standard requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Adam Goldberg - Project Architect  
 Signature: *Adam Goldberg*  
 Date: 1/17/2023

Project Title: Delta Logistics - Wilsonville Copy 2  
 Data filename:   
 Report date: 01/17/23  
 Page 3 of 10



Portland, OR  
 503.224.9560  
 Vancouver, WA  
 360.695.7879  
 Seattle, WA  
 206.749.9993  
 www.mcknzie.com



Client

Delta Logistics  
 9835 SW COMMERCE  
 CIRCLE  
 WILSONVILLE, OR  
 97070

DELTA LOGISTICS  
 9710 SW DAY RD.  
 CITY OF  
 WILSONVILLE, OR



© MACKENZIE  
 2023 ALL RIGHTS RESERVED  
 THESE DRAWINGS ARE THE PROPERTY OF  
 MACKENZIE AND ARE NOT TO BE USED  
 OR REPRODUCED IN ANY MANNER,  
 WITHOUT PRIOR WRITTEN PERMISSION

REVISION SCHEDULE		
Delta	Issued As	Issue Date

SHEET TITLE:  
**ENERGY CODE  
 COMPLIANCE**

SHEET

**G1.11**

JOB NO. **2200502.00**





© MACKENZIE 2025  
ALL RIGHTS RESERVED  
THESE DRAWINGS ARE THE PROPERTY OF  
MACKENZIE AND ARE NOT TO BE USED  
OR REPRODUCED IN ANY MANNER  
WITHOUT PRIOR WRITTEN PERMISSION

REVISION SCHEDULE		
Delta	Issued As	Issue Date

**CIVIL NOTES  
AND LEGEND**

SHEET

# C0.01

JOB NO. **2200502.00**

**LEGEND**

	EXISTING	PROPOSED
ROW LINE	---	---
BRUSH LINE	~~~~~	
BUILDING EAVE	- - - - -	
BUILDING FOOTPRINT	▭	
CENTERLINE	- - - - -	
EASEMENT LINE	- - - - -	
FENCE LINE	—x—x—	
GAS LINE	—G—	
OVERHEAD POWER	—E—	
SANITARY LINE		—
STORM DRAIN LINE	—SD—	—
TAX LOT LINE	—	—
WATER LINE	—W—	
DOMESTIC WATER LINE		—
FIRE WATER LINE (PRIVATE)		—
FIRE WATER LINE (PUBLIC)		—
WETLANDS AOI		.....
WETLANDS BUFFER		- - - - -
SROZ BOUNDARY		- - - - -
CULVERT INVERT		▼
CURB INLET		■
DECORATIVE SHRUB		⊕
DOWNSPOUT		□
CATCH BASIN		▭
FIRE HYDRANT		●
GAS METER		⊞
GAS RISER		⚡
GATE POST		⊕
GUY ANCHOR		⊕
MAILBOX		⊞
MANHOLE		⊞
POWER METER		⊞
SIGN "AS NOTED"		⊞
SITE BENCHMARK		⊕
STORM DRAIN MANHOLE		⊞
SURVEY MONUMENTS FOUND		●
SURVEY MONUMENTS SET		○
UTILITY LID		○
WATER METER		⊞
WATER RISE		⊞
WATER VALVE		⊞
WATER VAULT		⊞
FDC		⊞
WETLANDS BUFFER/ LINE STAKES		□
POWER POLE		●
SDEWALK		▭
TREE		⊕
WETLAND AREA		■
RAIN GARDEN		▭

**ABBREVIATIONS**

TC	TOP OF CURB	WM	WATER METER
AC	ASPHALT	OH	OVERHEAD WIRE
FH	FIRE HYDRANT	SSWR	SANITARY SEWER
FG	FINISHED GRADE	MH	MANHOLE
SW	SIDEWALK ELEVATION	IE	INVERT ELEVATION
TS	TOP OF STAIR	CB	CATCH BASIN
BS	BOTTOM OF STAIR	STM	STORM
TYP	TYPICAL	RD	ROOF DRAIN
R.O.W.	RIGHT OF WAY	FF/FE	FINISHED FLOOR ELEVATION
LS	LANDSCAPE	NG	NATURAL GROUND
SROZ	SIGNIFICANT RESOURCE OVERLAY ZONE	CL	CENTERLINE
CO	CLEAN OUT	GPM	GALLONS PER MINUTE
INV	INVERT	FW	FIRE WATER
RD	ROOF DRAIN	PWS	PUBLIC WORKS STANDARDS
COW	CITY OF WILSONVILLE	PUE	PUBLIC UTILITY EASEMENT
AOI	AREA OF IMPACT	ELEV	ELEVATION

**EROSION CONTROL NOTES**

- HOLD A PRE-CONSTRUCTION MEETING OF PROJECT CONSTRUCTION PERSONNEL THAT INCLUDES THE LOCAL AGENCY INSPECTOR TO DISCUSS EROSION AND SEDIMENT CONTROL MEASURES AND CONSTRUCTION LIMITS.
- EROSION AND SEDIMENT CONTROL MEASURES MUST BE IN PLACE BEFORE ANY LAND IS DISTURBED AND MUST REMAIN IN PLACE AND BE MAINTAINED, REPAIRED, AND PROMPTLY IMPLEMENTED FOLLOWING PROCEDURES ESTABLISHED FOR THE DURATION OF CONSTRUCTION, INCLUDING APPROPRIATE NON-STORMWATER POLLUTION CONTROLS
- THE EROSION CONTROL DRAWING IS FOR GENERAL GUIDANCE ONLY. THE CONTRACTOR SHALL KEEP THE PLAN CURRENT FOR ALL PHASES OF CONSTRUCTION AND MEET EROSION/SEDIMENT CONTROL REQUIREMENTS OF ALL AUTHORITIES HAVING JURISDICTION (AHJ). ALL EROSION CONTROL MEASURES SHALL CONFORM TO THE REQUIREMENTS OF THE AHJ, THE PLANS, AND THE PROJECT SPECIFICATIONS
- CONSTRUCT EROSION CONTROL IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES, AND IN SUCH A MANNER AS TO ENSURE THAT SEDIMENT AND SEDIMENT LADEN WATER DO NOT ENTER THE DRAINAGE SYSTEM, ROADWAYS, OR VIOLATE APPLICABLE WATER STANDARDS
- METHOD OF INSTALLATION FOR SEDIMENT FENCE SHALL NOT CAUSE DAMAGE TO VEGETATED SLOPE EXCEPT AT POINT OF INSTALLATION. SIDECAST MATERIAL SHALL BE KEPT TO A MINIMUM AND SHALL BE TO THE UPHILL SIDE OF THE SEDIMENT FENCE. THE FENCE SHALL BE INSTALLED AT LEAST 4 FEET FROM ADJACENT TREES
- ALL EROSION CONTROL DEVICES SHALL BE EXAMINED AND REPAIRED AFTER EACH STORM OCCURRENCE, AND INLETS SHALL BE CLEANED OF SEDIMENT WHENEVER NECESSARY
- HYDROSEED AND MULCH ALL DISTURBED AREAS UPON COMPLETION OF CONSTRUCTION OR AS DIRECTED BY THE AUTHORITIES HAVING JURISDICTION
- THE CONTRACTOR SHALL LIMIT CONSTRUCTION TRAFFIC TO PAVED AREAS TO PREVENT AND MINIMIZE SEDIMENT TRACKING OFF-SITE. CONTRACTOR SHALL SWEEP OR VACUUM PAVED AREAS IF SEDIMENT ACCUMULATION OCCURS. DO NOT TRACK SEDIMENT TO THE PUBLIC STREET OR NEIGHBORING PROPERTIES
- INSTALL TEMPORARY EROSION PREVENTION SUCH AS JUTE NETTING OR GEOTEXTILE ON DISTURBED AREAS STEEPER THAN 4H:1V
- STAGING AND STOCKPILE AREAS TO BE DETERMINED BY CONTRACTOR AND ADJUSTED TO ACCOMMODATE THE PROGRESS OF CONSTRUCTION

**SITE WORK NOTES**

- ALL CURB RADI TO BE 3 FEET UNLESS NOTED OTHERWISE
- WHEREVER A PEDESTRIAN WALKING PATH IS WITHIN 36 INCHES OF A VERTICAL DROP OF 30 INCHES OR GREATER, GUARDRAIL SHALL BE INSTALLED CONFORMANT WITH THE REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION AND THE CURRENT EDITION OF THE STATE BUILDING CODE (E.G. INTERNATIONAL BUILDING CODE, CHAPTER 10, SECTION 1015)
- PAVEMENTS WITH DEPRESSIONS OR BIRD BATHS, UNCONTROLLED CRACKS WHICH ARE VISIBLE WITHOUT MAGNIFICATION, AND/OR BONY OR OPEN GRADED SURFACES (EXCEPTING POROUS PAVEMENTS) WILL BE CONSIDERED UNACCEPTABLE. CONTRACTOR SHALL REVIEW PAVEMENT REPAIR OR REPLACEMENT ALTERNATIVES WITH THE OWNER AND ENGINEER PRIOR TO CONDUCTING THE REPAIR WORK.

**UTILITY NOTES**

- ALL WORK SHALL CONFORM TO THE CURRENT EDITIONS OF THE STATE PLUMBING AND BUILDING CODES WITH LOCAL AMENDMENTS AS APPLICABLE ALONG WITH ANY ADDITIONAL REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION
- THE WORKING DRAWINGS ARE GENERALLY DIAGRAMMATIC. THEY DO NOT SHOW EVERY OFFSET, BEND OR ELBOW REQUIRED FOR INSTALLATION IN THE SPACE PROVIDED. THEY DO NOT SHOW EVERY DIMENSION, COMPONENT PIECE, SECTION, JOINT OR FITTING REQUIRED TO COMPLETE THE PROJECT. ALL LOCATIONS FOR WORK SHALL BE CHECKED AND COORDINATED WITH EXISTING CONDITIONS IN THE FIELD BEFORE BEGINNING CONSTRUCTION. EXISTING UNDERGROUND UTILITIES WITHIN THE LIMITS OF EXCAVATION SHALL BE VERIFIED AS TO CONDITION, SIZE AND LOCATION BY UNCOVERING (POTHOLING), PROVIDING SUCH IS PERMITTED BY THE AUTHORITIES HAVING JURISDICTION, BEFORE BEGINNING CONSTRUCTION. CONTRACTOR TO NOTIFY ENGINEER IF THERE ARE ANY DISCREPANCIES.
- NOT ALL REQUIRED CLEANOUTS ARE SHOWN ON THE PLANS. PROVIDE CLEANOUTS PER DETAIL XXCX.XX AS REQUIRED BY THE AUTHORITIES HAVING JURISDICTION AND THE CURRENT EDITION OF THE STATE PLUMBING CODE (E.G. UNIFORM PLUMBING CODE CHAPTER 7, SECTIONS 707 AND 719, AND CHAPTER 11, SECTION 1101.13).
- ALL SANITARY AND STORM PIPING IS DESIGNED USING CONCENTRIC PIPE TO PIPE AND WYE FITTINGS, UNLESS OTHERWISE NOTED
- ALL DOWNSPOUT LEADERS TO BE 6 INCHES AT 2.0% MINIMUM UNLESS NOTED OTHERWISE
- IF APPLICABLE, PROVIDE 2 INCH PVC DRAIN LINE FROM DOMESTIC WATER METER VAULT AND BACKFLOW PREVENTER VAULT TO THE DOUBLE DETECTOR CHECK VALVE (FIRE) VAULT. PROVIDE 1/3 HP SUMP PUMP AT BASE OF FIRE VAULT AND INSTALL 2 INCH PVC DRAIN LINE WITH BACKFLOW VALVE FROM SUMP PUMP TO DAYLIGHT AT NEAREST CURB. FURNISH 3/4 INCH DIAMETER CONDUIT FROM BUILDING ELECTRICAL ROOM TO FIRE VAULT FOR SUMP PUMP ELECTRICAL SERVICE. NOTE: COORDINATE WITH FIRE PROTECTION CONTRACTOR FOR FLOW SENSOR INSTALLATION AND CONDUIT REQUIREMENTS
- REFABRICATED PLUMBING PRODUCTS USED SHALL BE LISTED ON THE IAPMO R&T PRODUCT LISTING DIRECTORY ([pld.iapmo.org](http://pld.iapmo.org)). ALL SUBMITTALS FOR REVIEW SHALL BE ACCOMPANIED BY MANUFACTURER'S LITERATURE CLEARLY STATING THIS CERTIFICATION AND/OR THE PRODUCT LISTING CERTIFICATE FROM THE IAPMO DIRECTORY WEBSITE
- IF APPLICABLE, CONTRACTOR TO PROVIDE POWER TO IRRIGATION CONTROLLER. SEE LANDSCAPE PLANS AND SPECIFICATIONS
- SEE BUILDING PLUMBING DRAWINGS FOR PIPING WITHIN THE BUILDING AND UP TO 5 FEET OUTSIDE THE BUILDING, INCLUDING ANY FOUNDATION DRAINAGE PIPING
- CONTRACTOR TO MAINTAIN MINIMUM 3 FEET OF COVER OVER ALL UTILITY PIPING AND CONDUITS, UNLESS NOTED OTHERWISE
- WHERE CONNECTING TO AN EXISTING PIPE, AND PRIOR TO ORDERING MATERIALS, THE CONTRACTOR SHALL EXPOSE THE EXISTING PIPE TO VERIFY THE LOCATION, SIZE, AND ELEVATION. NOTIFY ENGINEER OF ANY DISCREPANCIES
- CONTRACTOR SHALL SCOPE ALL PRIVATE ONSITE GRAVITY SYSTEM LINES THAT ARE BEING CONNECTED TO FOR PROPOSED SERVICE. SCOPING SHALL OCCUR A MINIMUM OF 72 HOURS PRIOR TO CONSTRUCTION AND THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES WITH AS-BUILT RECORDS/SURVEY FINDINGS OR IF THE EXISTING UTILITIES ARE DAMAGED OR SHOW SIGNS OF SIGNIFICANT DETERIORATION. CONTRACTOR SHALL PROVIDE THE ENGINEER WITH VIDEO RECORDS, ALONG WITH A SKETCH IF THE LOCATIONS DIFFER FROM AS-BUILT PLANS OR SURVEY FINDINGS
- PRODUCT MATERIAL SUBMITTALS FOR REVIEW BY THE ENGINEER SHALL BE ACCOMPANIED BY A MANUFACTURER'S CERTIFICATION THAT THE PRODUCT IS CAPABLE OF MEETING PERFORMANCE EXPECTATIONS (I.E. - WATERTIGHT, MINIMUM/MAXIMUM BURIAL, PREVENTION OF GROUNDWATER INTRUSION, ETC.) BASED ON THEIR REVIEW OF THE PROJECT PLANS. IN THE ABSENCE OF A MANUFACTURER'S CERTIFICATION, THE GENERAL CONTRACTOR'S REVIEW STAMP SHALL CONSTITUTE THAT THEY HAVE PERFORMED THE NECESSARY REVIEW TO CERTIFY THE PRODUCT'S CONFORMANCE TO PROJECT SPECIFICATIONS AND GENERAL EXPECTATIONS
- PIPE LENGTHS SHOWN ON PLANS ARE TWO DIMENSIONAL AND MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE
- MANHOLE RIM ELEVATIONS SHOWN ON PLANS REFERENCE THE CENTER OF THE STRUCTURE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECONCILING LIDS/GRATES/ETC TO THE SLOPES OF THE SITE GRADING
- MANHOLE OR VAULT RIM ELEVATIONS SHALL BE SET FLUSH IN PAVEMENT AREAS AND 3-4 INCHES ABOVE GRADE IN LANDSCAPE AREAS. RIMS IN PAVEMENT AREAS SHALL BE H-20 TRAFFIC RATED

**GENERAL NOTES**

- ALL WORK SHALL CONFORM TO THE CURRENT STANDARD SPECIFICATIONS AND REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION AND THE CURRENT AMERICAN PUBLIC WORKS ASSOCIATION STANDARDS FOR PUBLIC WORKS CONSTRUCTION
- THE SURVEY INFORMATION SHOWN AS A BACKGROUND SCREEN IS BASED ON A SURVEY BY OTHERS AND IS SHOWN FOR REFERENCE ONLY. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS WITH ITS OWN RESOURCES PRIOR TO START OF ANY CONSTRUCTION
- CONTRACTOR MUST COMPLY WITH LOCAL AND STATE REQUIREMENTS TO NOTIFY ALL UTILITY COMPANIES FOR LINE LOCATIONS SEVENTY-TWO (72) HOURS (MINIMUM) PRIOR TO START OF WORK. DAMAGE TO UTILITIES SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE
- CONTRACTOR SHALL ADJUST ALL STRUCTURES IMPACTED BY CONSTRUCTION IMPROVEMENTS TO NEW FINISH GRADES
- REQUEST BY THE CONTRACTOR FOR CHANGES TO THE PLANS MUST BE APPROVED BY THE ENGINEER.
- ALL WORK WITHIN THE PUBLIC RIGHT-OF-WAY REQUIRES A PUBLIC WORKS PERMIT
- CONTRACTOR SHALL PROVIDE THE ENGINEER OF RECORD WITH AS-BUILT PLANS AT LEAST 2 WEEKS PRIOR TO REQUESTING AGENCY SIGN OFF ON PERMITS FOR OCCUPANCY
- CONTRACTOR SHALL PERFORM ALL THE WORK SHOWN ON THE DRAWINGS AND ALL INCIDENTAL WORK NECESSARY TO COMPLETE THE PROJECT

**SITE DEMOLITION NOTES**

- COMPLY WITH ALL APPLICABLE CODES AND REGULATIONS FOR DEMOLITION OPERATIONS AND SAFETY OF ADJACENT STRUCTURES AND THE PUBLIC
- INSTALL EROSION CONTROL MEASURES AND TEMPORARY FENCING PRIOR TO ANY DEMOLITION ACTIVITIES
- MITIGATE DUST POLLUTION DUE TO DEMOLITION ACTIVITIES
- PROTECT ALL EXISTING STRUCTURES, UTILITIES, LANDSCAPE AND OTHER ELEMENTS THAT ARE NOT DESIGNATED FOR REMOVAL. ANY DAMAGE TO EXISTING IMPROVEMENTS NOT DESIGNATED FOR REMOVAL SHALL BE REPAIRED/REPLACED AT THE CONTRACTOR'S EXPENSE
- DO NOT BEGIN REMOVAL UNTIL ITEMS TO BE SALVAGED OR RELOCATED HAVE BEEN REMOVED AS NOTED. IF REMOVED GRAVEL OR PAVEMENT MATERIALS ARE TO BE RECYCLED OR REUSED, PREVENT CONTAMINATION OF THESE MATERIALS FROM TOPSOIL OR OTHER DELETERIOUS MATERIAL
- CONTRACTOR SHALL COORDINATE DEMOLITION WORK WITH AFFECTED UTILITY COMPANIES, OBTAIN ALL REQUIRED PERMITS, NOTIFY THEM PRIOR TO STARTING WORK, AND COMPLY WITH THEIR REQUIREMENTS. ADDITIONAL REMOVALS MAY BE REQUIRED BY THE AUTHORITIES HAVING JURISDICTION AND THE CONTRACTOR SHALL CONFIRM ACCORDINGLY PRIOR TO BID. ACCURATELY RECORD ACTUAL LOCATIONS OF CAPPED AND ACTIVE UTILITIES FOR AS-BUILT PURPOSES AND SUPPLY TO OWNER AND ARCHITECT/ENGINEER OF RECORD
- DEMOLISH AND REMOVE ALL NON-BUILDING SITE STRUCTURES AND ASSOCIATED FEATURES (APPURTENANCES) AS SHOWN. WITHIN AREA OF NEW CONSTRUCTION, REMOVE DESIGNATED WALLS AND FOOTINGS TO 2 FEET MINIMUM BELOW FINISHED GRADE. DEMOLISH ALL PAVED AREAS DESIGNATED FOR REMOVAL DOWN TO NATIVE SUBGRADE
- ALL VEGETATION AND DELETERIOUS MATERIALS WITHIN THE LIMITS OF WORK SHALL BE STRIPPED AND REMOVED FROM THE SITE PRIOR TO GRADING WORK UNLESS NOTED OTHERWISE (E.G. PROTECTED TREES)
- IF HAZARDOUS MATERIALS ARE DISCOVERED DURING DEMOLITION, STOP WORK AND IMMEDIATELY NOTIFY THE OWNER AND ARCHITECT/ENGINEER OF RECORD

**GRADING NOTES**

- ROUGH GRADING:** ROUGH GRADE TO ALLOW FOR DEPTH OF BUILDING SLABS, PAVEMENTS, BASE COURSES, AND TOPSOIL PER DETAILS AND SPECIFICATIONS
- FINISH GRADING:** BRING ALL FINISH GRADES TO LEVELS INDICATED. WHERE GRADES ARE NOT OTHERWISE INDICATED, HARDSCAPE FINISH GRADES ARE TO BE THE SAME AS ADJACENT SIDEWALKS, CURBS, OR THE OBVIOUS GRADE OF ADJACENT STRUCTURE. SOFTSCAPE GRADES (INCLUDING ADDITIONAL DEPTH OF TOPSOIL) SHALL BE SET 6 INCHES BELOW BUILDING FINISHED FLOORS WHERE ABUTTING BUILDINGS, 1-2 INCHES WHERE ABUTTING WALKWAYS OR CURBS, OR MATCHING OTHER SOFTSCAPE GRADES. GRADE TO UNIFORM LEVELS OR SLOPES BETWEEN POINTS WHERE GRADES ARE GIVEN. ROUND OFF SURFACES. AVOID ABRUPT CHANGES IN LEVELS. AT COMPLETION OF JOB AND AFTER BACKFILLING BY OTHER TRADES HAS BEEN COMPLETED, REFILL AND COMPACT AREAS WHICH HAVE SETTLED OR ERODED TO BRING TO FINAL GRADES
- EXCAVATION:** EXCAVATE FOR SLABS, PAVING, AND OTHER IMPROVEMENTS TO SIZES AND LEVELS SHOWN OR REQUIRED. ALLOW FOR FORM CLEARANCE AND FOR PROPER COMPACTION OF REQUIRED BACKFILLING MATERIAL. DAMAGE TO UTILITIES SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE
- EFFECTIVE EROSION PREVENTION AND SEDIMENT CONTROL IS REQUIRED. EROSION CONTROL DEVICES MUST BE INSTALLED AND MAINTAINED MEETING THE LOCAL AGENCY AND STATE AGENCY REQUIREMENTS. THE AUTHORITIES HAVING JURISDICTION MAY, AT ANY TIME, ORDER CORRECTIVE ACTION AND STOPPAGE OF WORK TO ACCOMPLISH EFFECTIVE EROSION CONTROL
- DRAINAGE SHALL BE CONTROLLED WITHIN THE WORK SITE AND SHALL BE ROUTED SO THAT ADJACENT PRIVATE PROPERTY, PUBLIC PROPERTY, AND THE RECEIVING SYSTEM ARE NOT ADVERSELY IMPACTED. THE ENGINEER AND/OR AUTHORITIES HAVING JURISDICTION MAY, AT ANY TIME, ORDER CORRECTIVE ACTION AND STOPPAGE OF WORK TO ACCOMPLISH EFFECTIVE DRAINAGE CONTROL
- SITE TOPSOIL STOCKPILED DURING CONSTRUCTION AND USED FOR LANDSCAPING SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT
- CONTRACTOR TO REVIEW AND CONFIRM GRADES AT JOIN POINTS, SUCH AS AT DAYLIGHT LIMITS AND BUILDING ENTRANCES, PRIOR TO CONSTRUCTION
- ACCESSIBLE PARKING SPACES AND LOADING ZONES SHALL BE CONSTRUCTED AT 2% MAXIMUM SLOPE IN ALL DIRECTIONS
- PEDESTRIAN SIDEWALK CONNECTIONS BETWEEN PUBLIC R.O.W. AND BUILDING ENTRANCES SHALL BE CONSTRUCTED AT AND 2% MAXIMUM CROSS SLOPE AND 5% MAXIMUM LONGITUDINAL SLOPE (0.33% FOR DESIGNATED RAMPS)







Delta	Issued As	Issue Date
1	PLAN CHECK	06/10/2022
2	LAND USE	07/26/2022
3	LAND USE	11/15/2022

**SITE COVERAGE SUMMARY**

BUILDING FOOTPRINT AREA:	58,125 SF	1.33 AC
PARKING AND PAVING AREA:	161,293 SF	3.70 AC
LANDSCAPE AREA:	117,433 SF	2.70 AC
TOTAL DEVELOPMENT AREA:	336,851 SF	7.73 AC
TOTAL SITE AREA (AFTER DEDICATION):	386,719 SF	8.88 AC

**SITE PARKING SUMMARY**

TRAILERS (50'X12):	79 STALLS
PASSENGER VEHICLES (18'X9):	39 STALLS
ACCESSIBLE STALLS:	2 STALLS
TOTAL VEHICLE STALLS:	41 STALLS
NO BIKE PARKING REQUIRED	

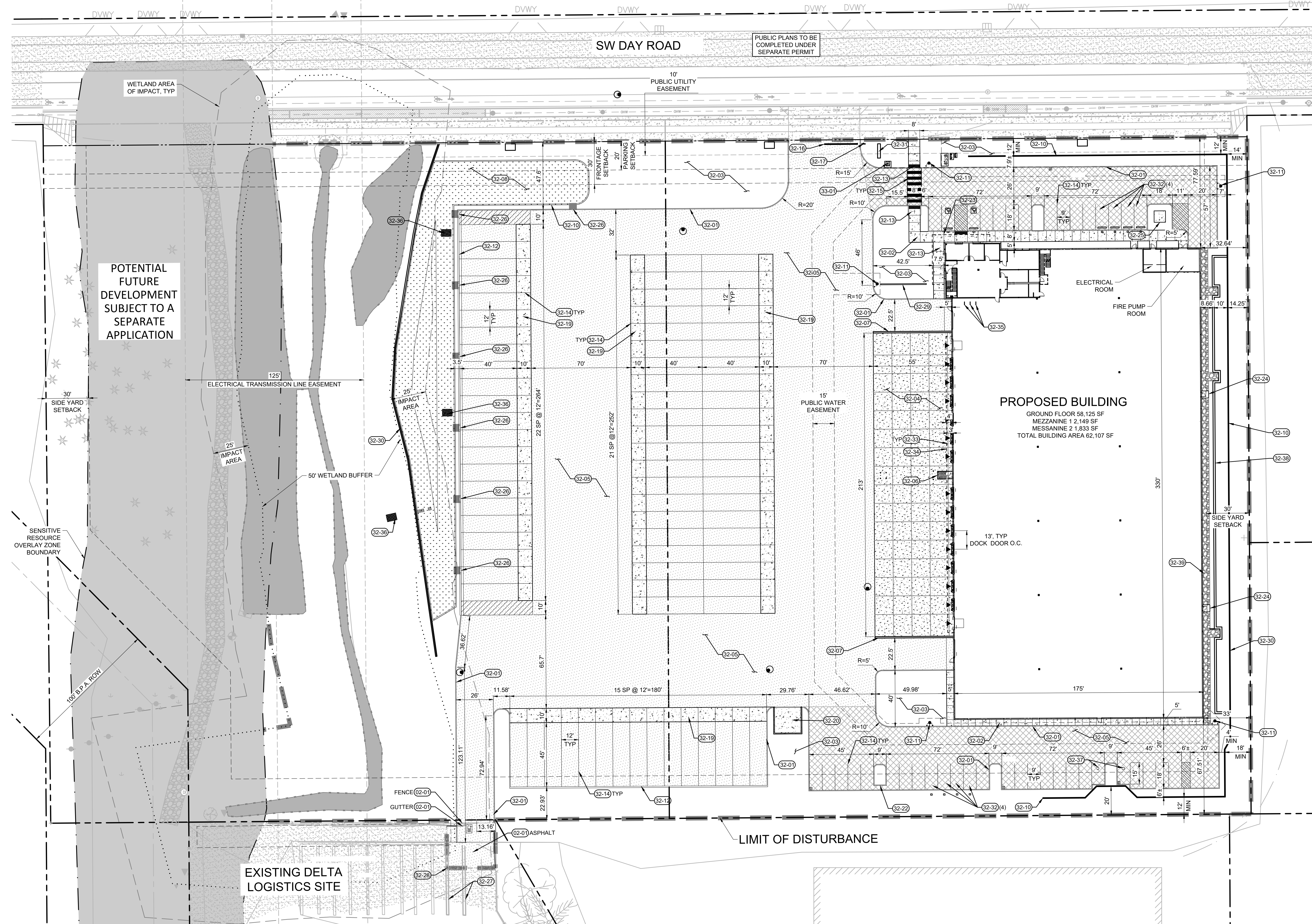
**PAVEMENT LEGEND**

\*PAVEMENT SECTIONS PER GEODESIGN, SEE APPENDIX IN PROJECT SPECIFICATIONS

	SECTION PER SUBSURFACE CONDITION:	BEDROCK	SOIL SUBGRADE
LIGHT PAVEMENT (NO TRUCK TRAFFIC)	2.5' AC OVER 4.0' BASE ROCK	2.5' AC OVER 8.0' BASE ROCK	
HEAVY TRUCK PAVEMENT (APPROX. 50 TPD)	4.0' AC OVER 4.0' BASE ROCK	5.0' AC OVER 18.0' BASE ROCK	
CONCRETE SECTION:	6" PCC WITH #4 @ 24" O.C. OVER 6" OF CRUSHED ROCK BASE. SUBGRADE TO BE COMPACTED TO GEOTECHNICAL REPORT SPECIFICATIONS		

**KEYNOTES**

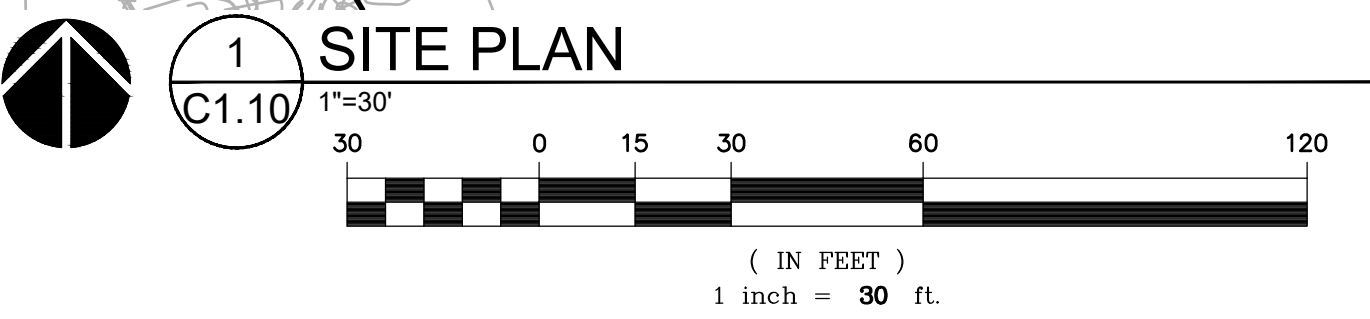
- 02-01 REMOVE EXISTING AS NOTED
- 02-01 CONCRETE VERTICAL CURB, PER DETAIL 1/C5.10
- 02-02 CONCRETE SIDEWALK, PER DETAIL 7/C5.10
- 02-03 LANDSCAPE AREA, SEE LANDSCAPE PLANS
- 02-04 CONCRETE TRUCK DOCK, SEE PAVEMENT LEGEND
- 02-05 ASPHALT PAVING AREA, SEE PAVEMENT LEGEND
- 02-06 DOCK STAIR, PER ARCHITECTURAL DETAIL
- 02-07 DOCK RETAINING WALL, PER ARCHITECTURAL DETAIL
- 02-08 RAIN GARDEN 1, PER DETAIL 7/C5.12
- 02-10 DESIGN-BUILD SOIL NAIL WALL, OR APPROVED EQUAL, SEE WALL PLAN FOR DETAILS
- 02-11 FIRE HYDRANT ASSEMBLY WITH BOLLARD PROTECTION, BOLLARD, PER DETAIL 2 AND 3/C5.10, SEE UTILITY PLAN FOR FIRE HYDRANT DETAILS
- 02-12 12" HIGH X 12" WIDE CURB AT TRUCK TRAILER PARKING STALLS, PER DETAIL 3/C5.10, ADD GUTTER WHERE FLOW LINE SLOPE IS LESS THAN 1%, PER DETAIL 9/C5.12
- 02-13 PERPENDICULAR CURB RAMP, PER DETAIL 12/C5.10
- 02-14 4" WHITE PARKING STRIPE, PER SPECIFICATIONS
- 02-15 12" WIDE CROSSWALK STRIPE, PER SPECIFICATIONS
- 02-16 12" WIDE WHITE STOP BAR STRIPE
- 02-17 STOP SIGN, PER DETAIL 14/C5.10
- 02-19 10" WIDE TRAILER LANDING GEAR STRIP, 6" PCC W/ #4 @ 24" O.C. EACH WAY OVER 4" CRUSHED ROCK BASE, SEE DETAIL 8/C5.10 FOR CONCRETE TO ASPHALT TRANSITION
- 02-20 19'X20' CONCRETE PAD FOR TRASH ENCLOSURE, SEE ARCHITECTURAL PLANS FOR TRASH ENCLOSURE DETAIL
- 02-22 3" CHANNEL, PER DETAIL 1/C5.12
- 02-23 PARALLEL CURB RAMP, PER DETAIL 13/C5.10
- 02-24 5' X 5' CONCRETE LANDING, PER DETAIL 7/C5.10
- 02-25 8' X 8' CONCRETE PAD FOR GENERATOR, SEE MEP PLAN
- 02-26 3" WIDE CURB BREAK AT 50' O.C., PER DETAIL 5/C5.10
- 02-27 PAINT OVER EXISTING TRAILER STALL PARKING WITH BLACK PAINT
- 02-28 FULL DEPTH SAW CUT, PER DETAIL 3/C5.10
- 02-29 SCREEN WALL, PER ARCHITECTURAL DETAIL 9/A5.10
- 02-30 3" HIGH GUARDRAIL TO BE EMBEDDED IN RETAINING WALL AT ALL LOCATIONS WHERE WALL HEIGHT IS GREATER THAN 30", SEE RETAINING WALL PROFILES AND DETAILS 3 AND 4/C5.12
- 02-31 MONUMENT SIGN, SEE LANDSCAPE PLANS FOR DETAILS
- 02-32 FUTURE ELECTRIC VEHICLE PARKING STALL, SEE ELECTRICAL PLANS FOR DETAILS
- 02-33 3" WIDE ISOLATED ROW, SEE DETAIL 12/C5.11
- 02-34 BUILDING CANOPY, SEE ARCHITECTURAL PLANS FOR DETAILS AND SPECIFICATIONS
- 02-35 3 BIKE RACKS, SEE ARCHITECTURAL PLANS FOR DETAILS
- 02-36 RIP RAP AT PIPE OUTFALL, PER DETAIL 7/C5.12, SEE UTILITY PLANS FOR LOCATION
- 02-37 15' LONG COMPACT STALL
- 02-38 2' TALL SEAT WALL, SEE LANDSCAPE PLANS FOR GEOMETRY AND MATERIAL
- 02-39 5" WIDE GRAVEL PATH, 4" THICK 3/4" CRUSHED ROCK AGGREGATE
- 02-01 FDC CONNECTION, PER DETAIL 16/C5.10, SEE UTILITY PLAN



LIMIT OF DISTURBANCE

EXISTING DELTA LOGISTICS SITE

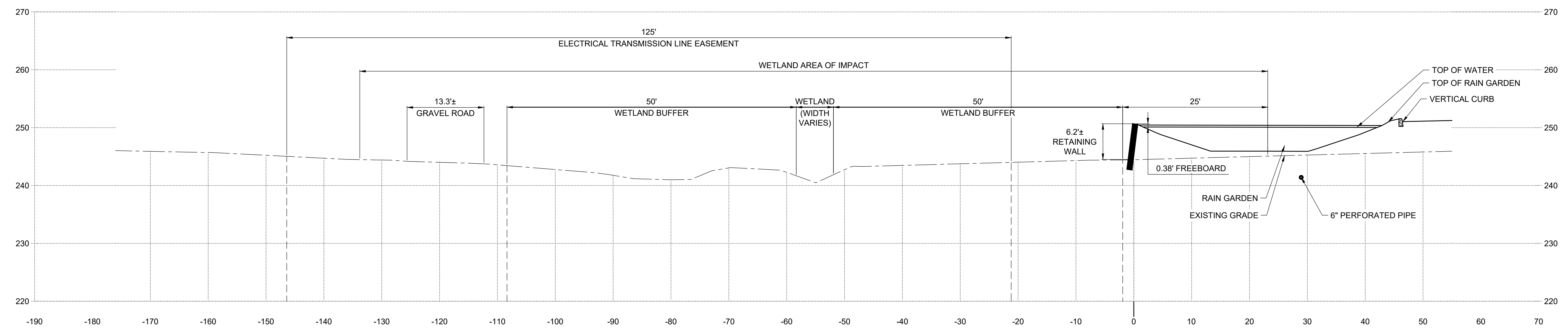
**PROPOSED BUILDING**  
GROUND FLOOR 58,125 SF  
MEZZANINE 2,149 SF  
MESSANINE 2,183 SF  
TOTAL BUILDING AREA 62,457 SF



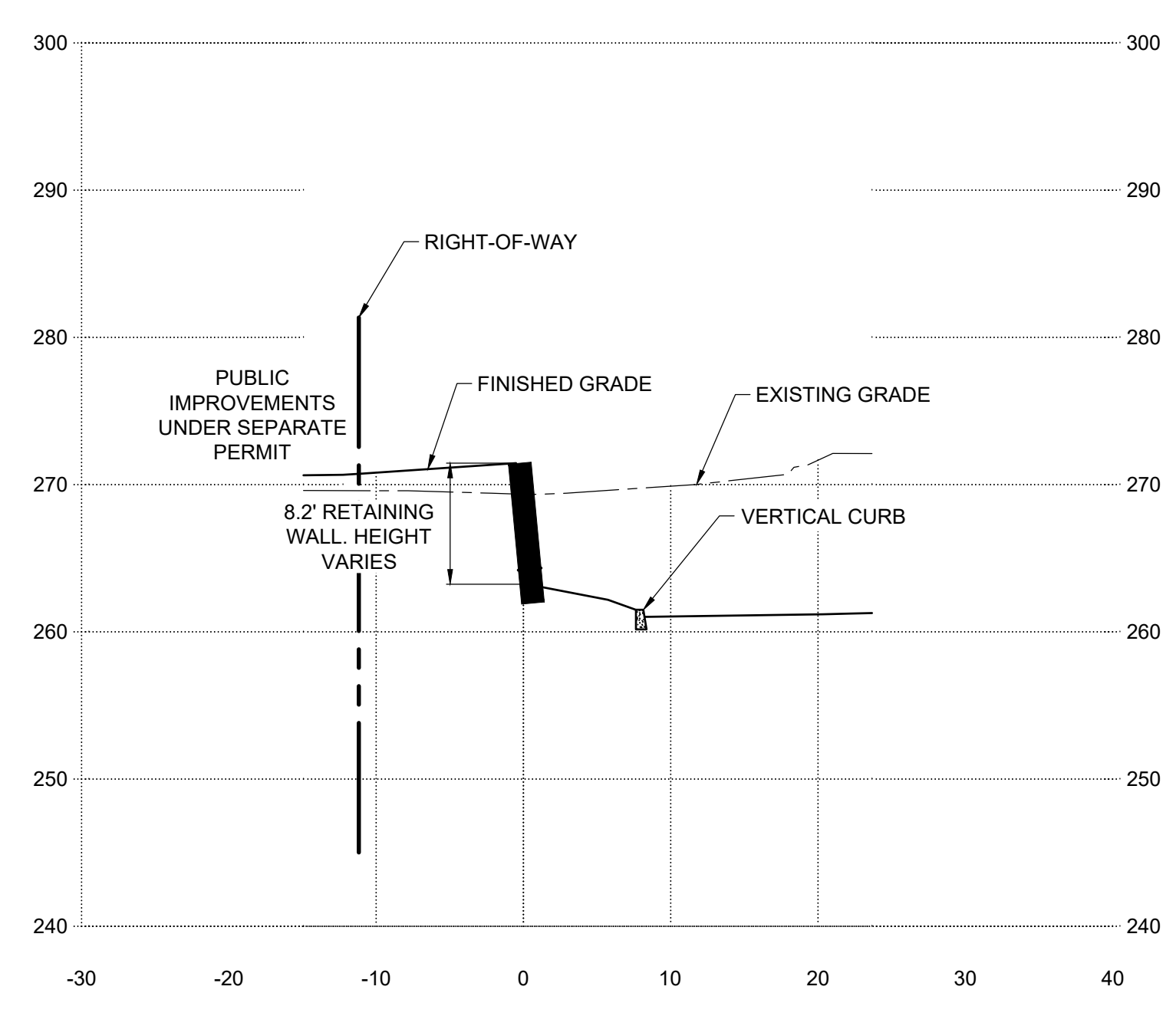




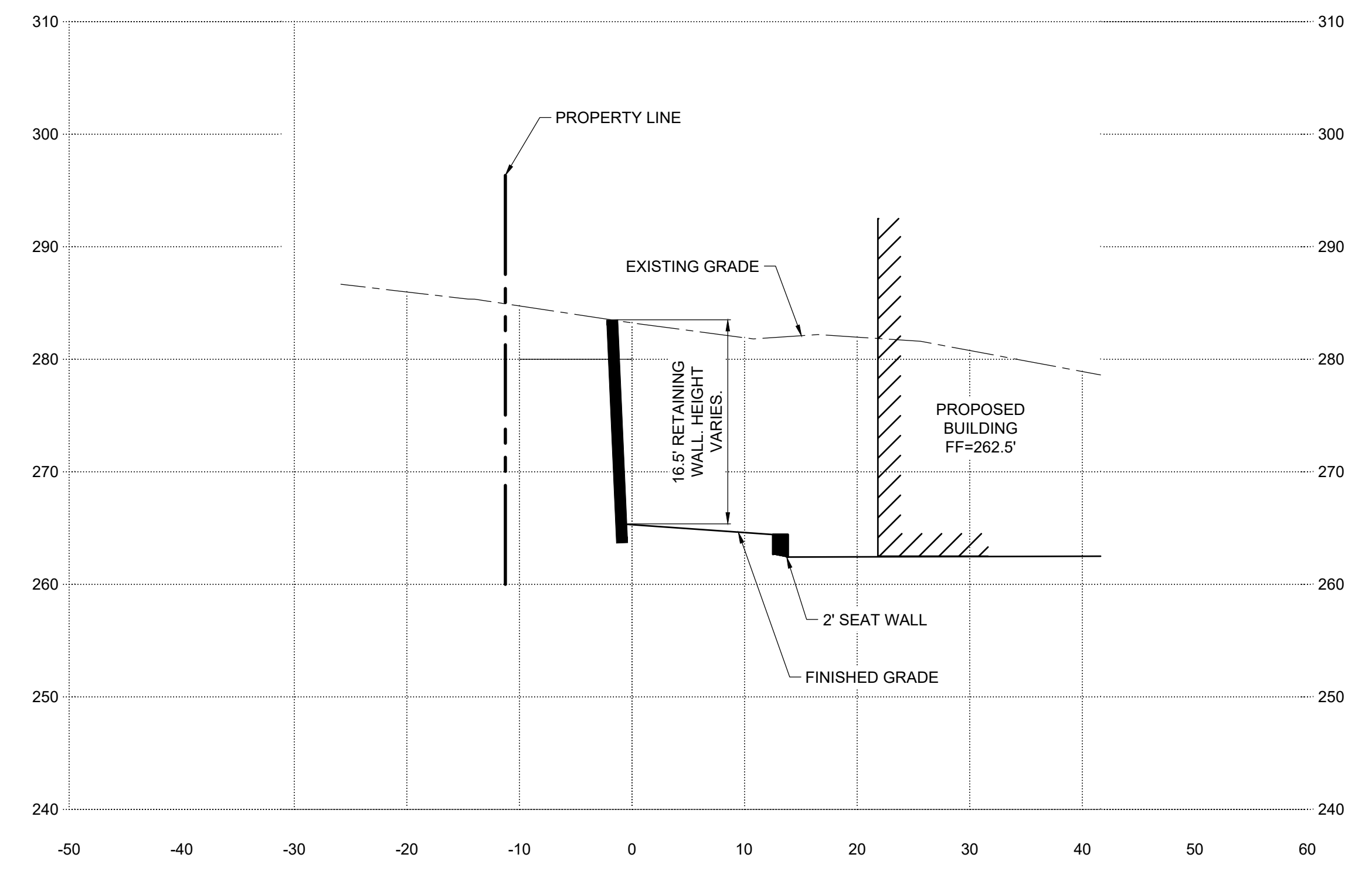




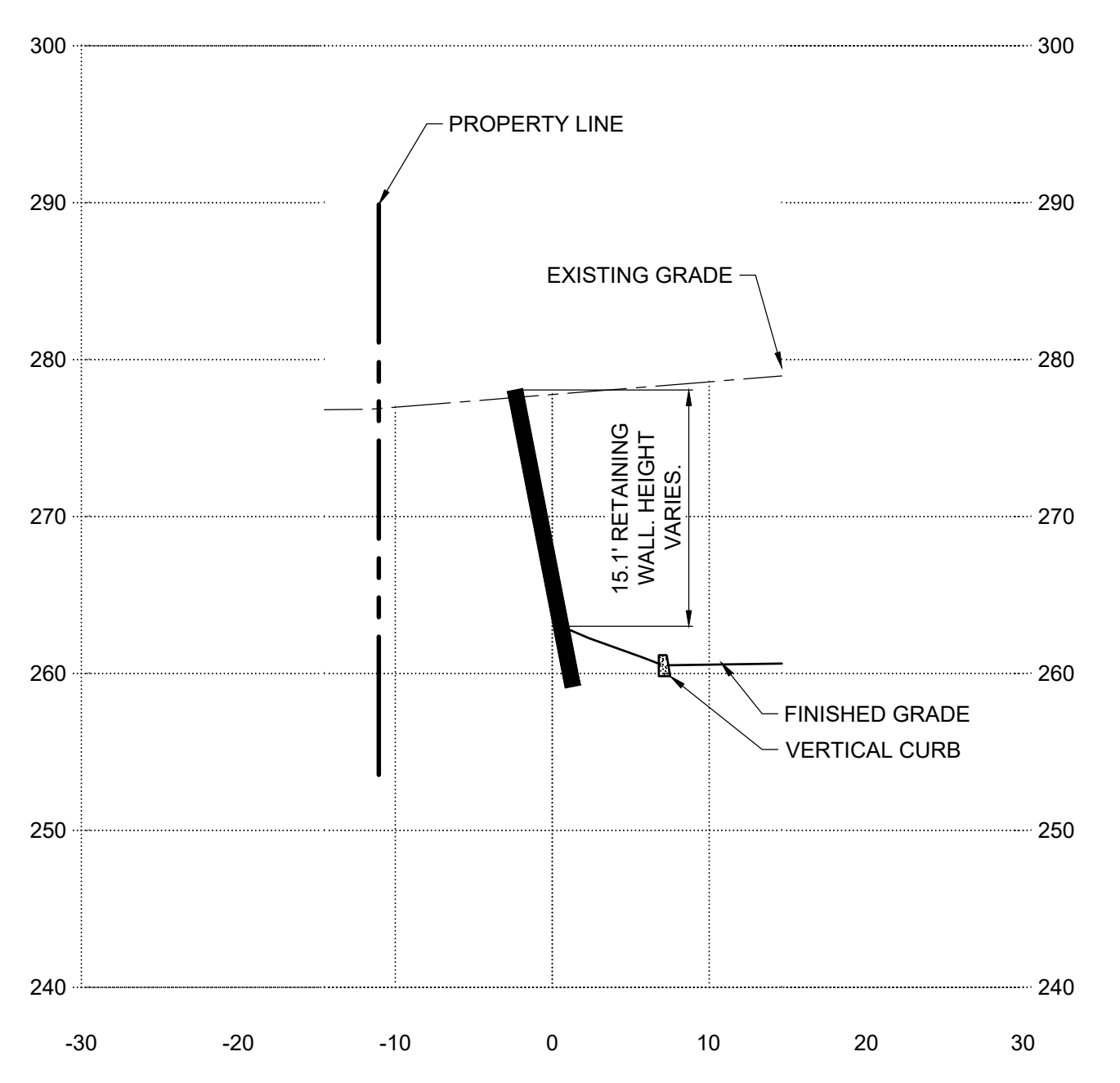
**1** CROSS SECTION - NORTHWEST WALL  
 C1.21 SCALE: 1"=10'  
 VERT. SCALE: 1"=1'



**2** CROSS SECTION 1 - EAST WALL  
 C1.21 SCALE: 1"=10'  
 VERT. SCALE: 1"=1'



**3** CROSS SECTION 2 - EAST WALL  
 C1.21 SCALE: 1"=10'  
 VERT. SCALE: 1"=1'



**4** CROSS SECTION 3 - EAST WALL  
 C1.21 SCALE: 1"=10'  
 VERT. SCALE: 1"=1'



© MACKENZIE 2023  
 ALL RIGHTS RESERVED  
 THESE DRAWINGS ARE THE PROPERTY OF  
 MACKENZIE AND ARE NOT TO BE USED  
 OR REPRODUCED IN ANY MANNER  
 WITHOUT PRIOR WRITTEN PERMISSION

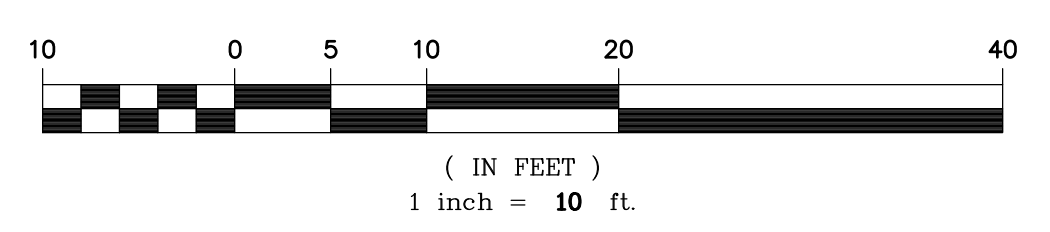
REVISION SCHEDULE		
Delta	Issued As	Issue Date
1	PLAN CHECK	07/14/2022

**GRADING  
 CROSS  
 SECTIONS**

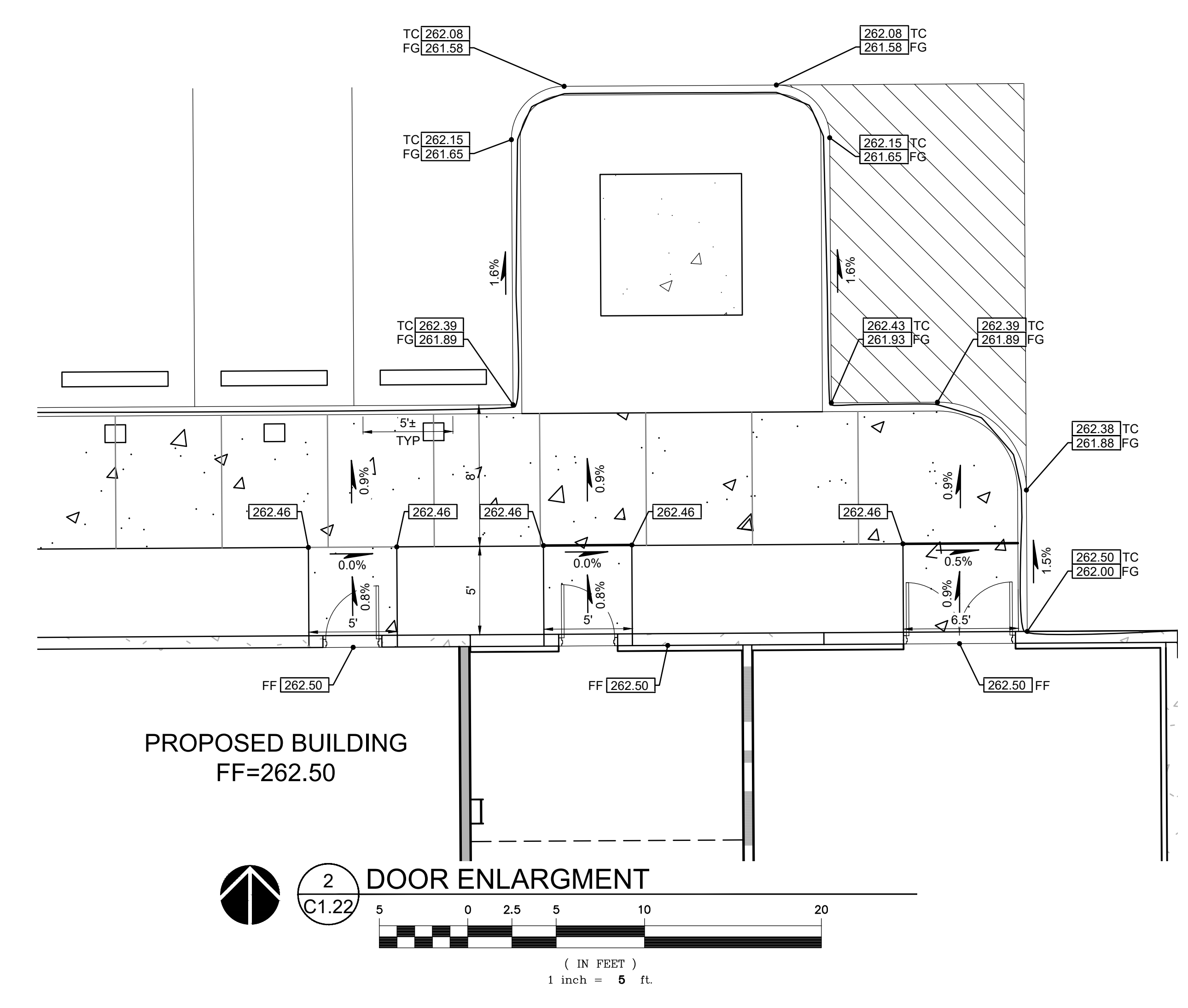
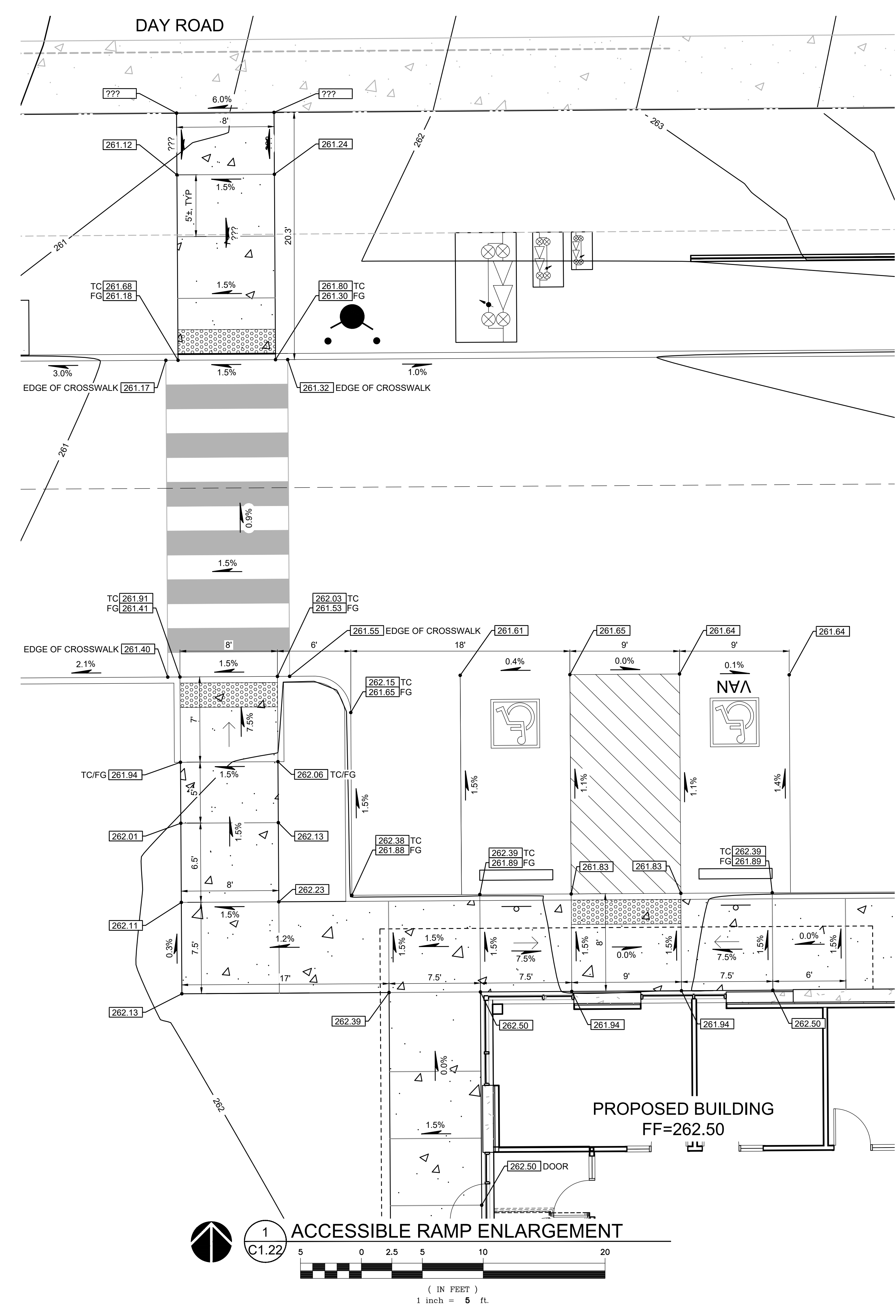
SHEET

**C1.21**

JOB NO. **2200502.00**







© MACKENZIE 2023  
 ALL RIGHTS RESERVED  
 THESE DRAWINGS ARE THE PROPERTY OF  
 MACKENZIE AND ARE NOT TO BE USED  
 OR REPRODUCED IN ANY MANNER  
 WITHOUT PRIOR WRITTEN PERMISSION

REVISION SCHEDULE		
Delta	Issued As	Issue Date
1	PLAN CHECK	06/10/2022

**GRADING  
 ENLARGEMENT  
 PLAN**

SHEET

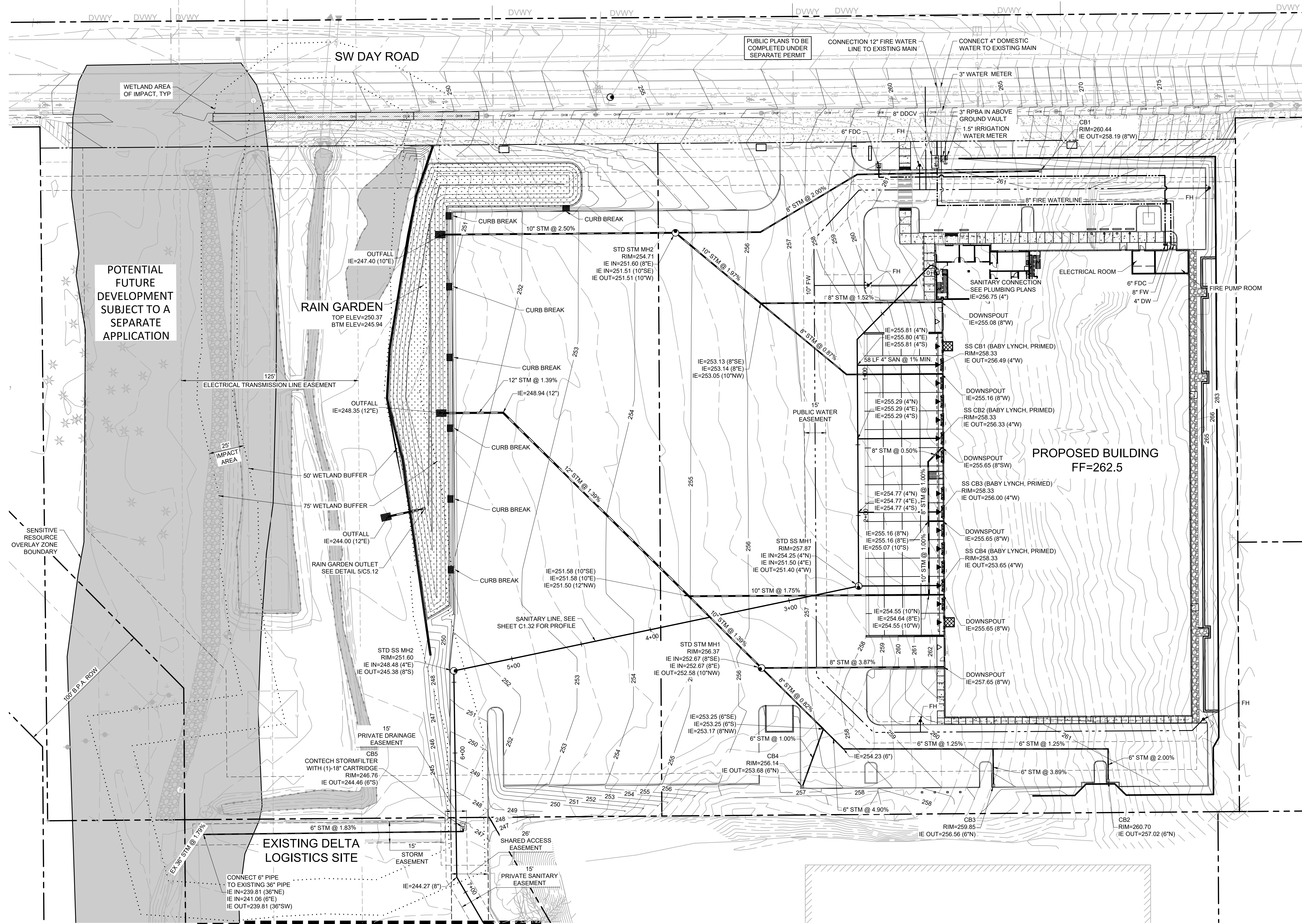
**C1.22**

JOB NO. **2200502.00**

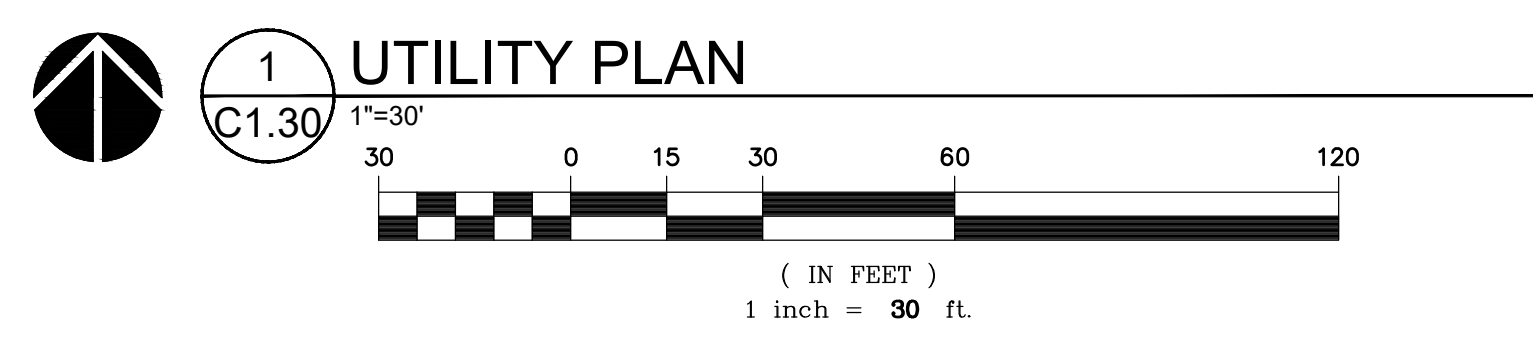


REVISION SCHEDULE		
Delta	Issued As	Issue Date
1	PLAN CHECK	06/10/2022
2	LAND USE	11/15/2022

**UTILITY PLAN**



MATCH LINE - SEE SHEET 1/C1.31



SHEET

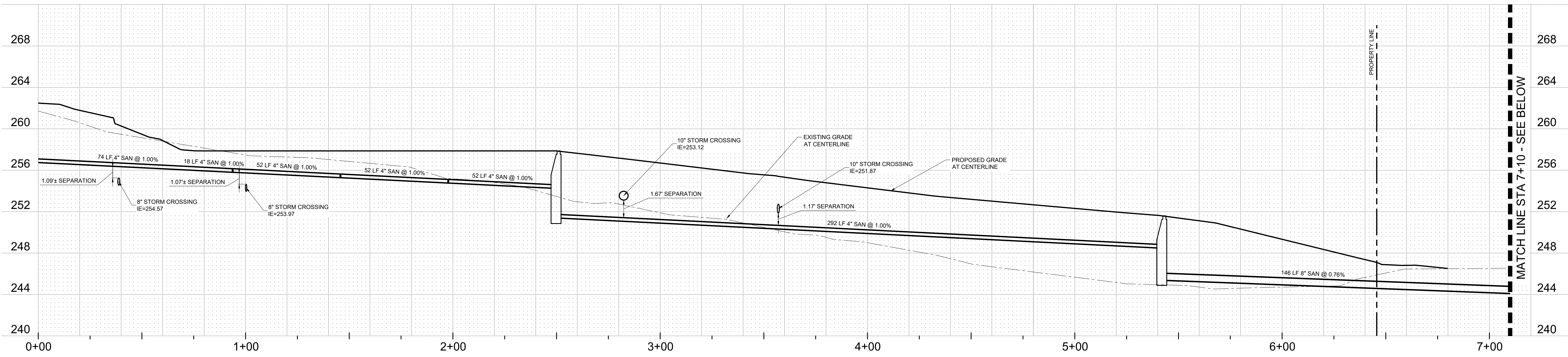
**C1.30**

JOB NO. **2200502.00**

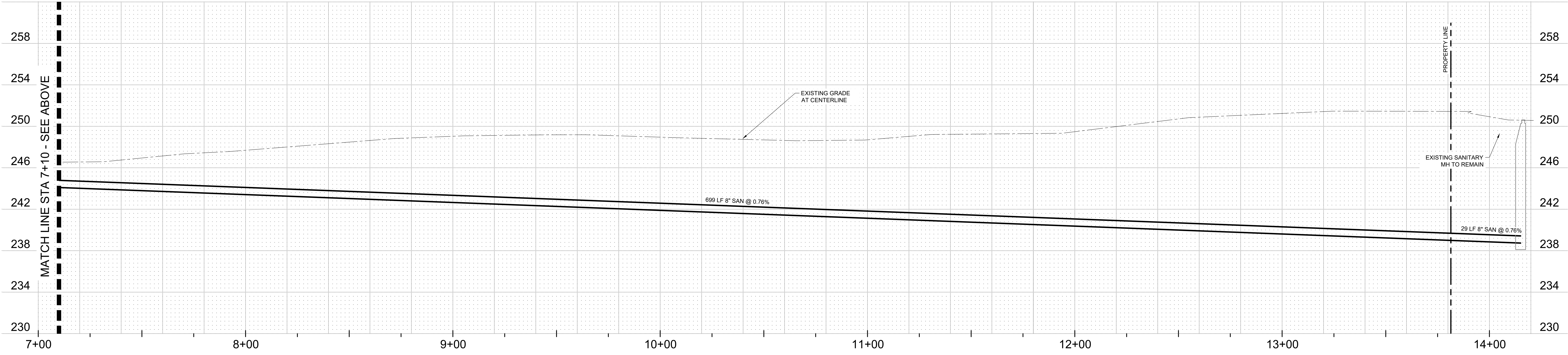








**1 SANITARY PROFILE**  
 C1.32  
 HORZ. SCALE 1"=20'  
 VERT. SCALE 1"=5'



**2 SANITARY PROFILE**  
 C1.32  
 HORZ. SCALE 1"=20'  
 VERT. SCALE 1"=5'



© MACKENZIE 2023  
 ALL RIGHTS RESERVED  
 THESE DRAWINGS ARE THE PROPERTY OF  
 MACKENZIE AND ARE NOT TO BE USED  
 OR REPRODUCED IN ANY MANNER  
 WITHOUT PRIOR WRITTEN PERMISSION

REVISION SCHEDULE		
Delta	Issued As	Issue Date

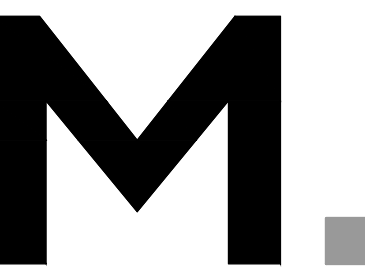
**SANITARY PROFILE**

SHEET

**C1.32**

JOB NO. **2200502.00**





Architecture • Interiors  
Planning • Engineering

Portland, OR  
503.224.9560  
Vancouver, WA  
360.695.7879  
Seattle, WA  
206.749.9993  
www.mcknze.com

**MACKENZIE**  
DESIGN-BUILD • CLIENT FOCUS

Client

**DELTA LOGISTICS**

9835 SW COMMERCE  
CIRCLE  
WILSONVILLE, OR 97070

Project

**DELTA LOGISTICS  
SITE EXPANSION**

9710 SW DAY RD.  
CITY OF  
WILSONVILLE, OR



EXPIRES: 12/31/24

© MACKENZIE 2023  
ALL RIGHTS RESERVED  
THESE DRAWINGS ARE THE PROPERTY OF  
MACKENZIE AND ARE NOT TO BE USED  
OR REPRODUCED IN ANY MANNER  
WITHOUT PRIOR WRITTEN PERMISSION

REVISION SCHEDULE

Delta	Issued As	Issue Date
1	PLAN CHECK	07/14/2022

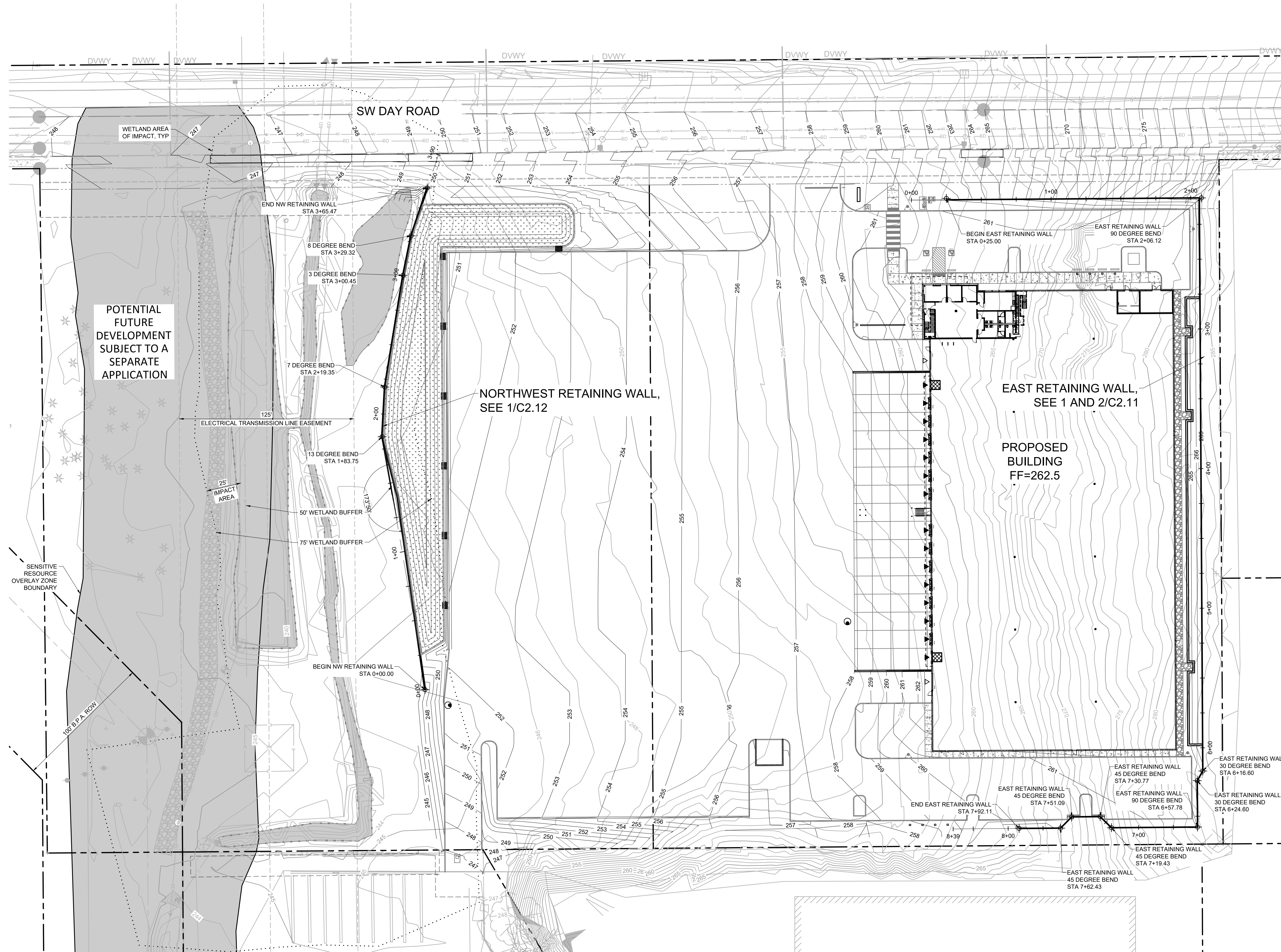
**OVERALL  
RETAINING  
WALL PLAN**

SHEET

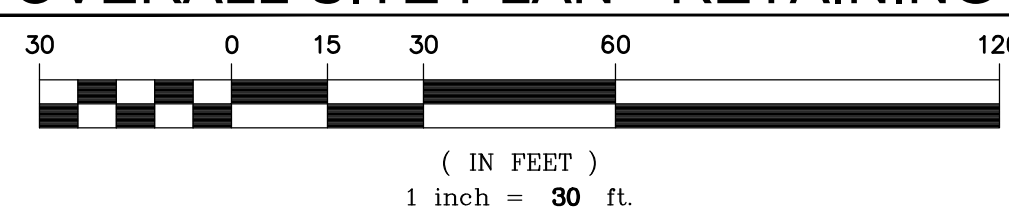
**C2.10**

JOB NO. **2200502.00**

**DEVELOPMENT REVIEW SET - 04/24/23**



**1 OVERALL SITE PLAN - RETAINING WALL**  
C2.10



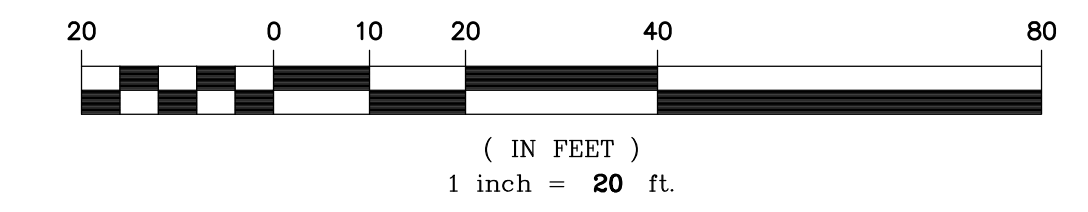
**LEGEND**

	EXISTING	PROPOSED
RIGHT-OF-WAY	— 590 —	— 590 —
MAJOR CONTOUR	— 591 —	— 591 —
MINOR CONTOUR	— 591 —	— 591 —

**NOTE:**

WALL ELEVATIONS ARE PROVIDED FOR CONTRACTOR  
COORDINATION ONLY. WALL FINAL DESIGN TO BE DESIGN-BUILD.  
REFER TO DESIGN-BUILD PLANS FOR WALL DETAILS, BLOCK LAYOUT,  
REINFORCING, AND OTHER DETAILS.



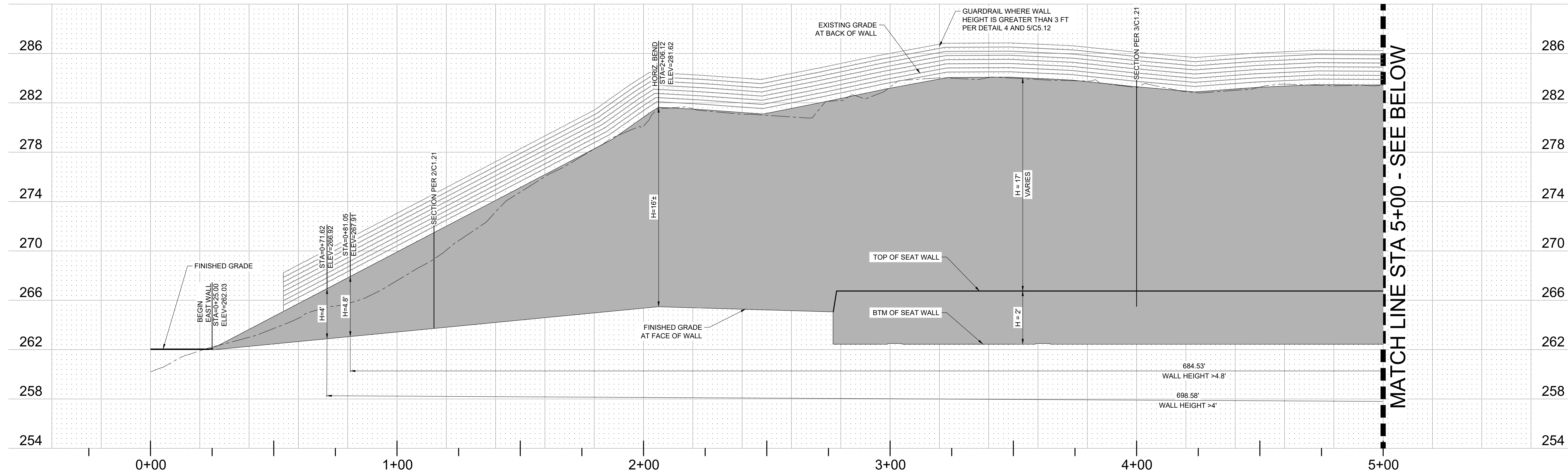


Portland, OR  
503.224.9560  
Vancouver, WA  
360.695.7879  
Seattle, WA  
206.749.9993  
www.mcknze.com

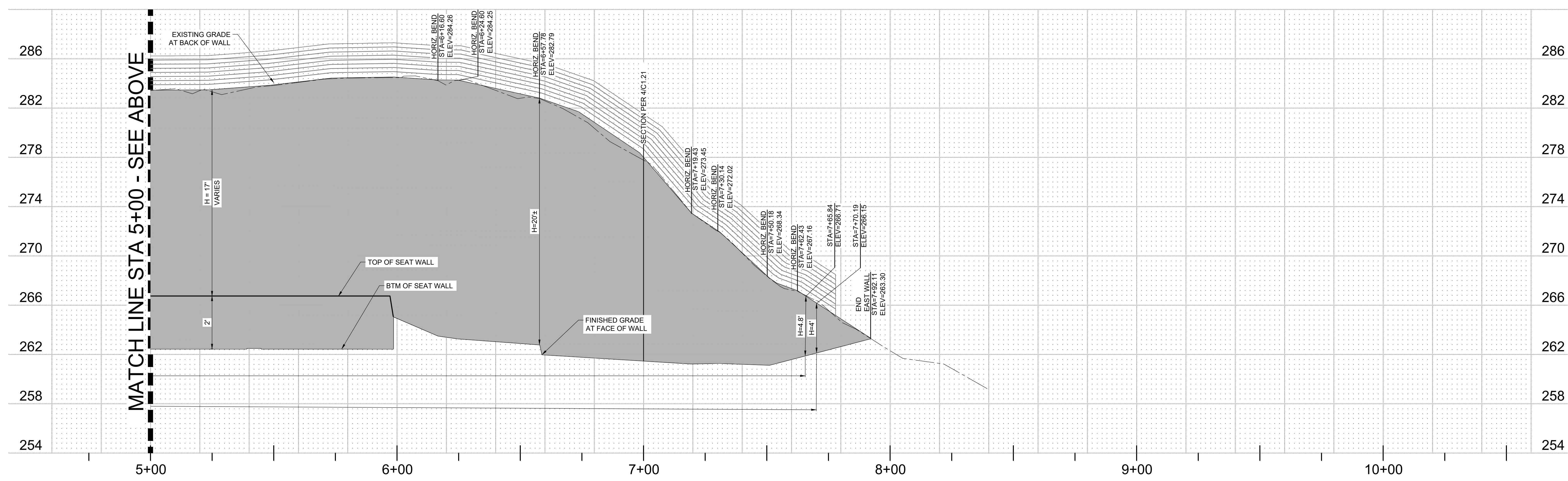
**MACKENZIE**  
DESIGN REVIEW | CLIENT PROVIDED

Client  
**DELTA LOGISTICS**  
9835 SW COMMERCE  
CIRCLE  
WILSONVILLE, OR 97070

Project  
**DELTA LOGISTICS  
SITE EXPANSION**  
9710 SW DAY RD.  
CITY OF  
WILSONVILLE, OR



**1 EAST RETAINING WALL PROFILE**  
C2.11 HORZ. SCALE 1"=20'  
VERT. SCALE 1"=5'



**2 EAST RETAINING WALL PROFILE**  
C2.11 HORZ. SCALE 1"=20'  
VERT. SCALE 1"=5'

**LEGEND**

	EXISTING	PROPOSED
RIGHT-OF-WAY	— 590 —	— 590 —
MAJOR CONTOUR	— 590 —	— 590 —
MINOR CONTOUR	— 591 —	— 591 —

**ABBREVIATIONS**

FW	GROUND ELEVATION AT FACE OF WALL
BW	GROUND ELEVATION AT BACK OF WALL

**NOTE:**  
WALL ELEVATIONS ARE PROVIDED FOR CONTRACTOR COORDINATION ONLY. WALL FINAL DESIGN TO BE DESIGN-BUILD. REFER TO DESIGN-BUILD PLANS FOR WALL DETAILS, BLOCK LAYOUT, REINFORCING, AND OTHER DETAILS.



© MACKENZIE 2025  
ALL RIGHTS RESERVED  
THESE DRAWINGS ARE THE PROPERTY OF MACKENZIE AND ARE NOT TO BE USED OR REPRODUCED IN ANY MANNER WITHOUT PRIOR WRITTEN PERMISSION

**REVISION SCHEDULE**

Delta	Issued As	Issue Date
1	PLAN CHECK	07/14/2022

**EAST RETAINING WALL PROFILE**

SHEET

**C2.11**

JOB NO. **2200502.00**









© MACKENZIE 2023  
 ALL RIGHTS RESERVED  
 THESE DRAWINGS ARE THE PROPERTY OF  
 MACKENZIE AND ARE NOT TO BE USED  
 OR REPRODUCED IN ANY MANNER  
 WITHOUT PRIOR WRITTEN PERMISSION

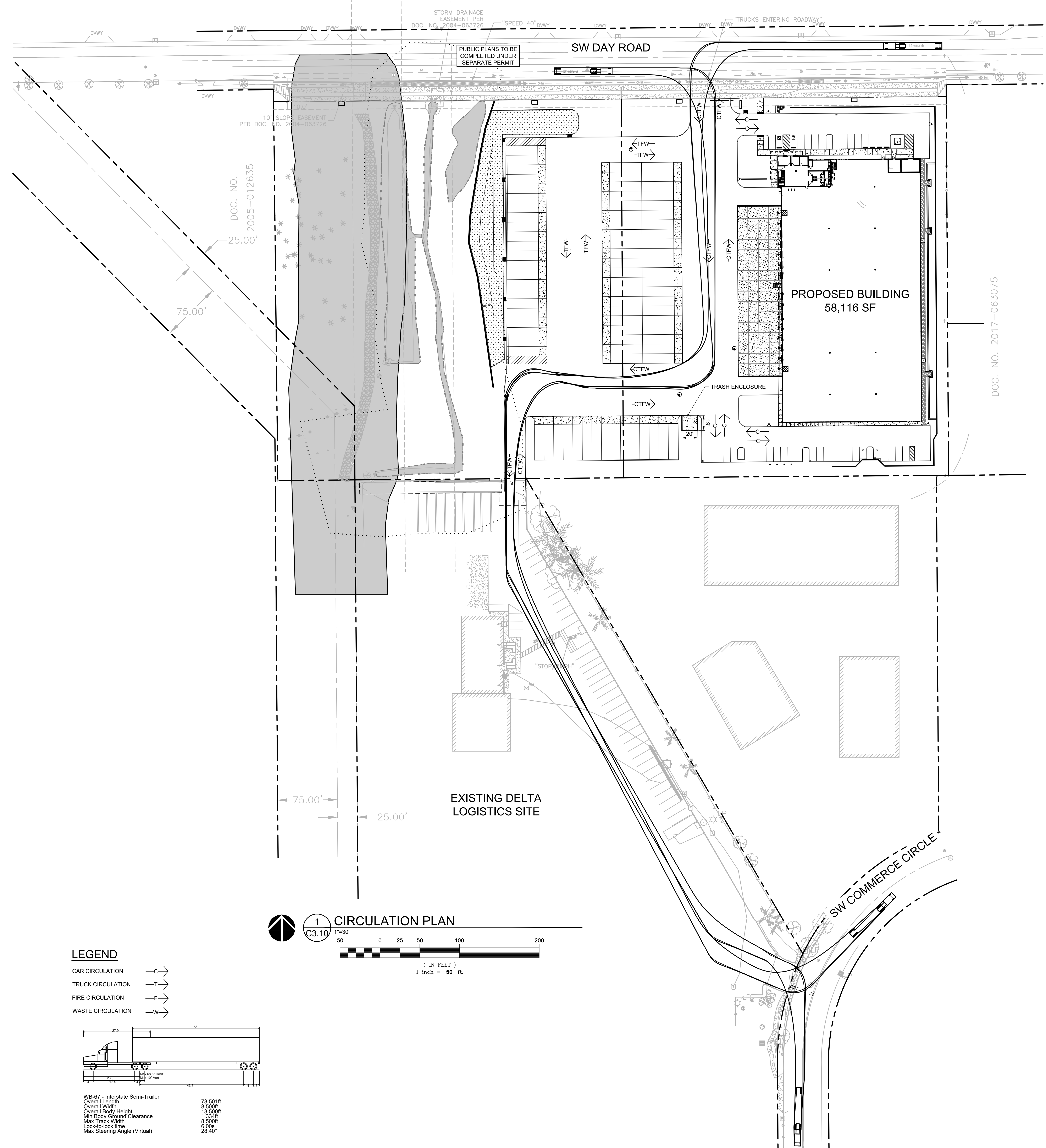
REVISION SCHEDULE		
Delta	Issued As	Issue Date
1	PLAN CHECK	06/10/2022
2	LAND USE	11/15/2022

**CIRCULATION  
 PLAN**

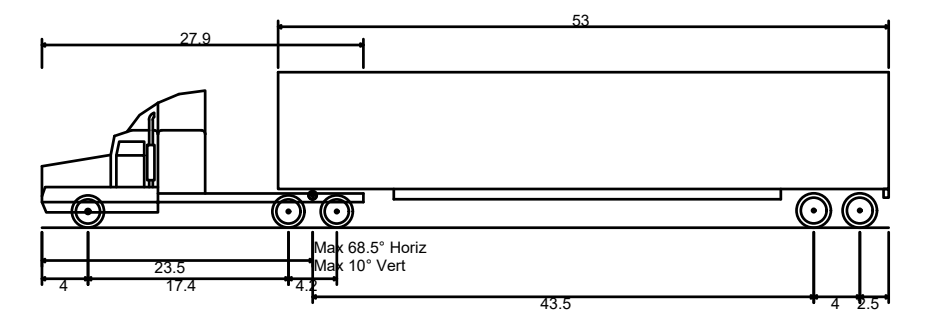
SHEET

**C3.10**

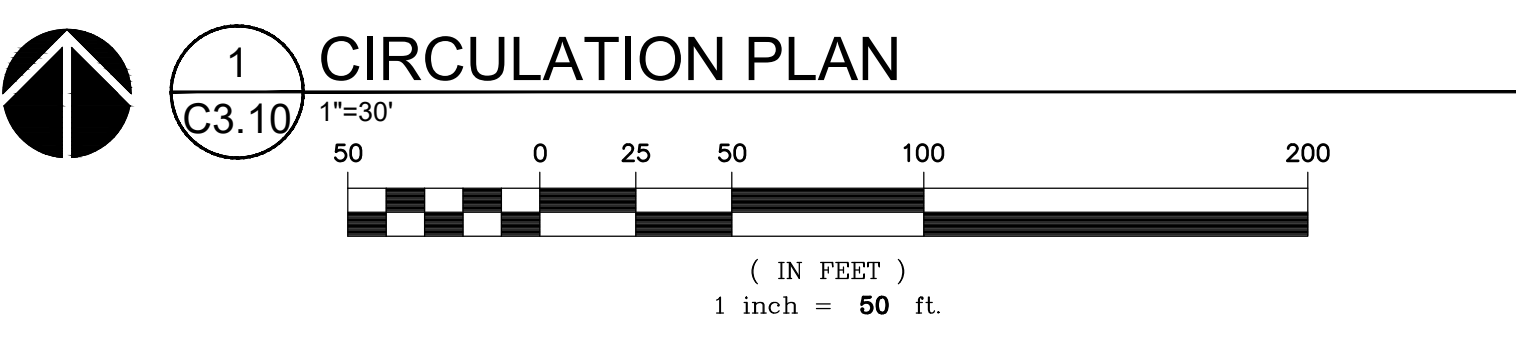
JOB NO. **2200502.00**



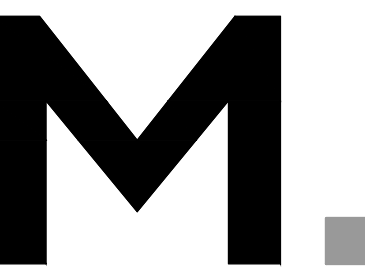
- LEGEND**
- CAR CIRCULATION —C—>
  - TRUCK CIRCULATION —T—>
  - FIRE CIRCULATION —F—>
  - WASTE CIRCULATION —W—>



WB-67 - Interstate Semi-Trailer  
 Overall Length 73.50ft  
 Overall Width 8.50ft  
 Overall Body Height 13.50ft  
 Min Body Ground Clearance 1.35ft  
 Max Truck Width 8.50ft  
 Lock-to-lock time 6.01s  
 Max Steering Angle (Virtual) 28.40°







Architecture • Interiors  
Planning • Engineering

Portland, OR  
503.224.9560  
Vancouver, WA  
360.695.7879  
Seattle, WA  
206.749.9993  
www.mcknzie.com

**MACKENZIE**  
DESIGN-BUILD • CLIENT PROVIDED

Client  
**DELTA LOGISTICS**  
9835 SW COMMERCE  
CIRCLE  
WILSONVILLE, OR 97070

Project  
**DELTA LOGISTICS  
SITE EXPANSION**  
9710 SW DAY RD.  
CITY OF  
WILSONVILLE, OR



EXPIRES: 12/31/24  
© MACKENZIE 2023  
ALL RIGHTS RESERVED  
THESE DRAWINGS ARE THE PROPERTY OF  
MACKENZIE AND ARE NOT TO BE USED  
OR REPRODUCED IN ANY MANNER  
WITHOUT PRIOR WRITTEN PERMISSION

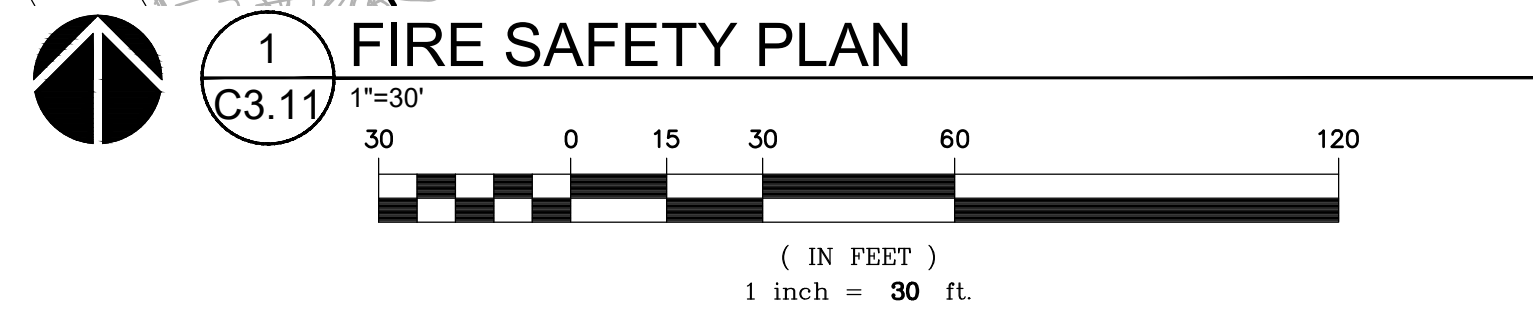
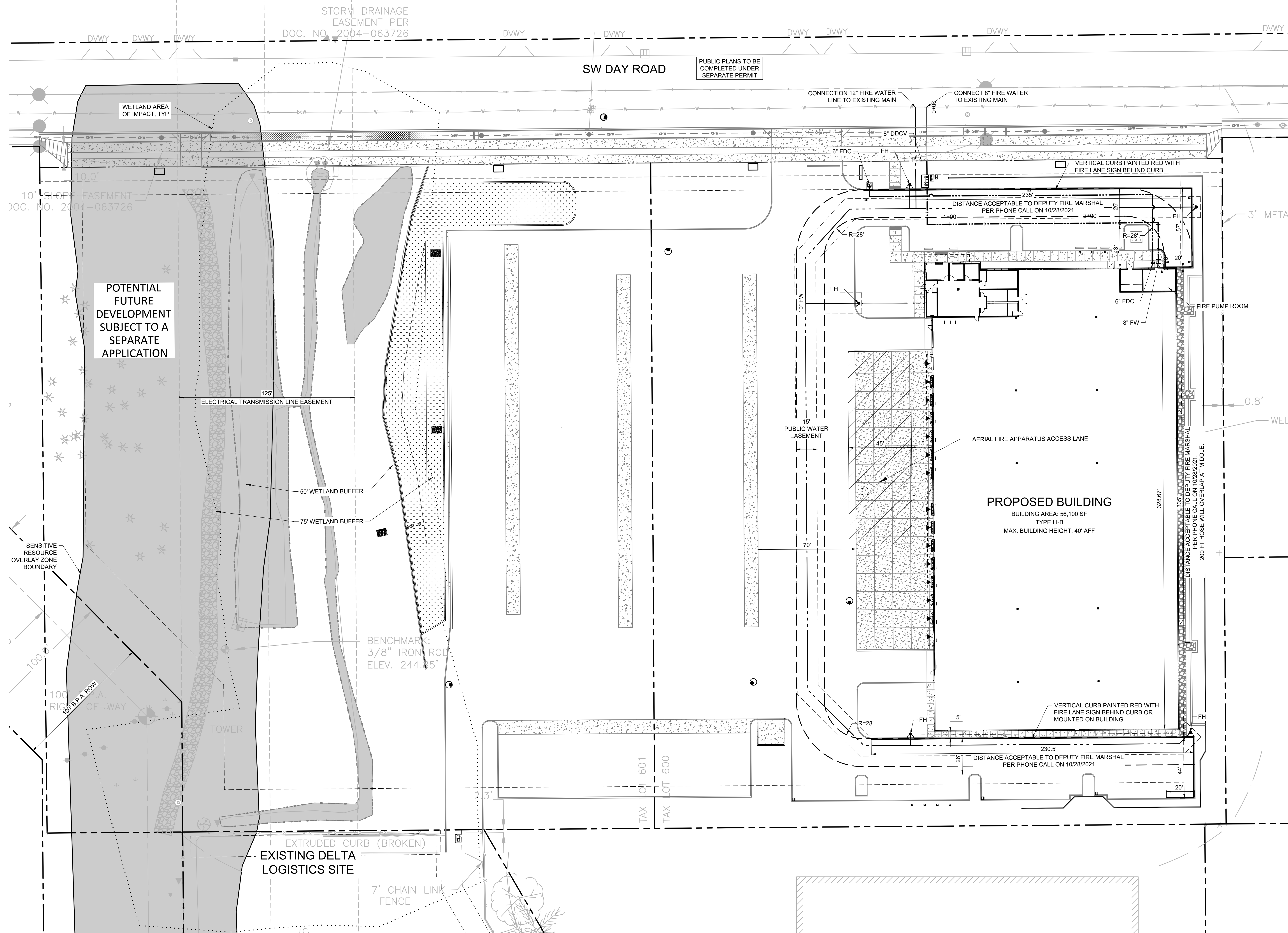
REVISION SCHEDULE		
Delta	Issued As	Issue Date
1	LAND USE	11/15/2022

**FIRE SAFETY PLAN**

SHEET

**C3.11**

JOB NO. **2200502.00**



THE SURVEY INFORMATION SHOWN AS A BACKGROUND SCREEN ON THIS SHEET IS SHOWN FOR REFERENCE ONLY AND IS BASED ON A SURVEY BY HICKMAN & ASSOCIATES, DATE \_\_\_\_\_



# DELTA LOGISTICS SITE EXPANSION AND SEDIMENT CONTROL PLAN

## WILSONVILLE, OR

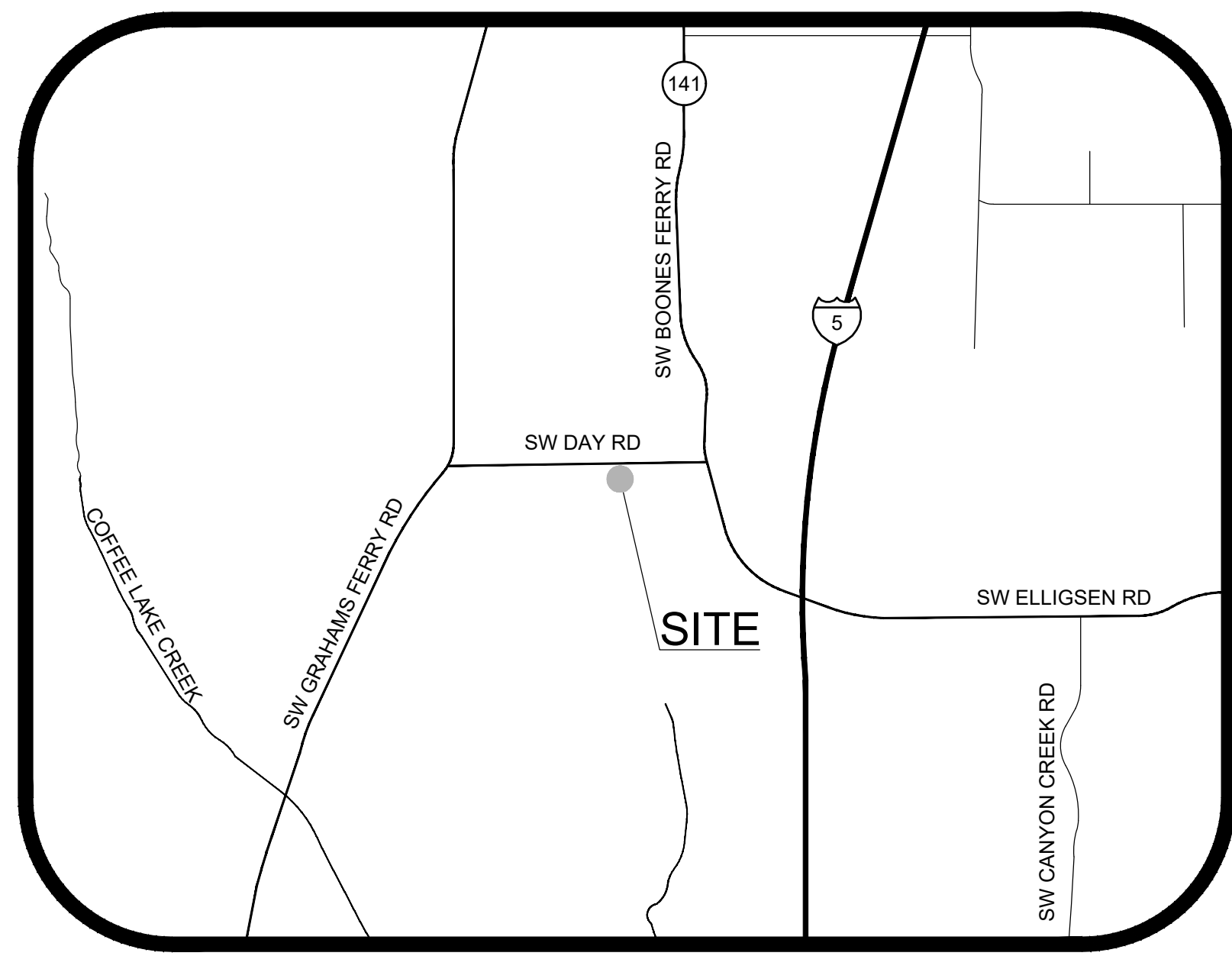
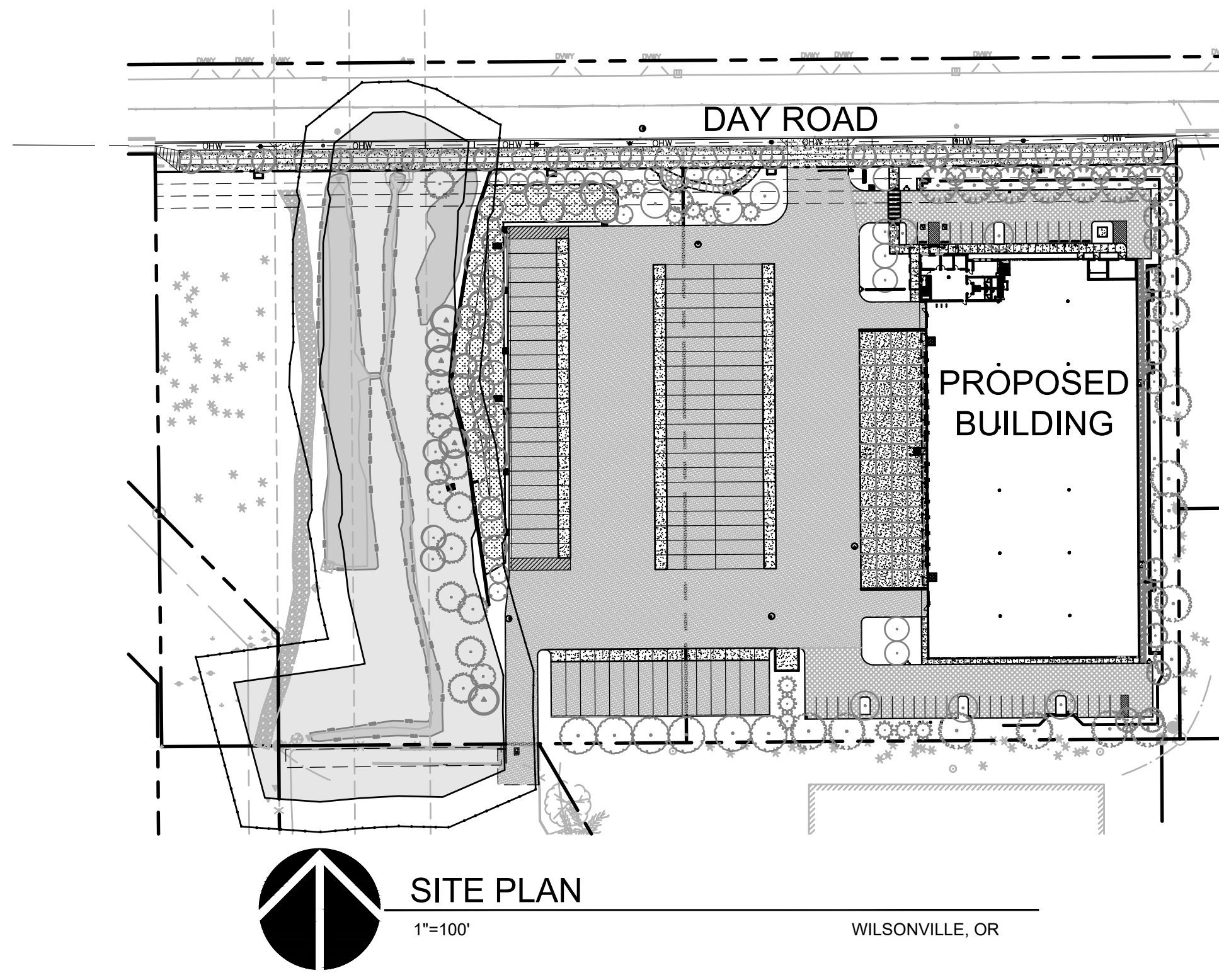
TAX LOTS 600, 601 3S102B000601, 3S102B000600

CLACKAMAS COUNTY, OREGON



Portland, OR  
503.224.9560  
Vancouver, WA  
360.695.7879  
Seattle, WA  
206.749.9993  
www.mcknze.com

**MACKENZIE**  
DESIGN-BUILD • CLIENT PROJECTS



### STANDARD EROSION AND SEDIMENT CONTROL PLAN DRAWING NOTES:

- 1. ONCE KNOWN, INCLUDE A LIST OF ALL CONTRACTORS THAT WILL ENGAGE IN CONSTRUCTION ACTIVITIES ON SITE... (SECTION 4.4.C.II)
- 2. VISUAL MONITORING INSPECTION REPORTS MUST BE MADE IN ACCORDANCE WITH DEQ 1200-C PERMIT REQUIREMENTS. (SECTION 6.5)
- 3. INSPECTION LOGS MUST BE KEPT IN ACCORDANCE WITH DEQ'S 1200-C PERMIT REQUIREMENTS. (SECTION 6.5)
- 4. RETAIN A COPY OF THE ESCP AND ALL REVISIONS ON SITE AND MAKE IT AVAILABLE ON REQUEST TO DEQ, AGENT, OR THE LOCAL MUNICIPALITY. (SECTION 4.7)
- 5. THE PERMIT REGISTRANT MUST IMPLEMENT THE ESCP FAILURE TO IMPLEMENT ANY OF THE CONTROL MEASURES OR PRACTICES DESCRIBED IN THE ESCP IS A VIOLATION OF THE PERMIT. (SECTIONS 4 AND 4.11)
- 6. THE ESCP MUST BE ACCURATE AND REFLECT SITE CONDITIONS. (SECTION 4.8)
- 7. SUBMISSION OF ALL ESCP REVISIONS IS NOT REQUIRED. SUBMITTAL OF THE ESCP REVISIONS IS ONLY UNDER SPECIFIC CONDITIONS. SUBMIT ALL NECESSARY REVISION TO DEQ OR AGENT WITHIN 10 DAYS. (SECTION 4.9)
- 8. SEQUENCE CLEARING AND GRADING TO THE MAXIMUM EXTENT PRACTICAL TO PREVENT EXPOSED INACTIVE AREAS FROM BECOMING A SOURCE OF EROSION. (SECTION 2.2.2)
- 9. CREATE SMOOTH SURFACES BETWEEN SOIL SURFACE AND EROSION AND SEDIMENT CONTROLS TO PREVENT STORMWATER FROM BYPASSING CONTROLS AND PONDING. (SECTION 2.2.3)
- 10. IDENTIFY, MARK, AND PROTECT (BY CONSTRUCTION FENCING OR OTHER MEANS) CRITICAL RIPARIAN AREAS AND VEGETATION INCLUDING IMPORTANT TREES AND ASSOCIATED ROOTING ZONES. AND VEGETATION AREAS TO BE PRESERVED. IDENTIFY VEGETATIVE BUFFER ZONES BETWEEN THE SITE AND SENSITIVE AREAS (E.G., WETLANDS), AND OTHER AREAS TO BE PRESERVED, ESPECIALLY IN PERIMETER AREAS. (SECTION 2.2.1)
- 11. PRESERVE EXISTING VEGETATION WHEN PRACTICAL AND RE-VEGETATE OPEN AREAS. RE-VEGETATE OPEN AREAS WHEN PRACTICABLE BEFORE AND AFTER GRADING OR CONSTRUCTION. IDENTIFY THE TYPE OF VEGETATIVE SEED MIX USED. (SECTION 2.2.5)
- 12. MAINTAIN AND DELINEATE ANY EXISTING NATURAL BUFFER WITHIN THE 50-FEET OF WATERS OF THE STATE. (SECTION 2.2.4)
- 13. INSTALL PERIMETER SEDIMENT CONTROL, INCLUDING STORM DRAIN INLET PROTECTION AS WELL AS ALL SEDIMENT BASINS, TRAPS, AND BARRIERS PRIOR TO LAND DISTURBANCE. (SECTIONS 2.1.3)
- 14. CONTROL BOTH PEAK FLOW RATES AND TOTAL STORMWATER VOLUME, TO MINIMIZE EROSION AT OUTLETS AND DOWNSTREAM CHANNELS AND STREAMBANKS. (SECTIONS 2.1.1 AND 2.2.16)
- 15. CONTROL SEDIMENT AS NEEDED ALONG THE SITE PERIMETER AND AT ALL OPERATIONAL INTERNAL STORM DRAIN INLETS AT ALL TIMES DURING CONSTRUCTION, BOTH INTERNALLY AND AT THE SITE BOUNDARY. (SECTIONS 2.2.6 AND 2.2.13)
- 16. ESTABLISH CONCRETE TRUCK AND OTHER CONCRETE EQUIPMENT WASHOUT AREAS BEFORE BEGINNING CONCRETE WORK. (SECTION 2.2.14)
- 17. APPLY TEMPORARY AND/OR PERMANENT SOIL STABILIZATION MEASURES IMMEDIATELY ON ALL DISTURBED AREAS AS GRADING PROGRESSES. TEMPORARY OR PERMANENT STABILIZATION MEASURES ARE NOT REQUIRED FOR AREAS THAT ARE INTENDED TO BE LEFT UNVEGETATED, SUCH AS DIRT ACCESS ROADS OR UTILITY POLE PADS. (SECTIONS 2.2.20 AND 2.2.21)
- 18. ESTABLISH MATERIAL AND WASTE STORAGE AREAS, AND OTHER NON-STORMWATER CONTROLS. (SECTION 2.3.7)
- 19. KEEP WASTE CONTAINER LIDS CLOSED WHEN NOT IN USE AND CLOSE LIDS AT THE END OF THE BUSINESS DAY FOR THOSE CONTAINERS THAT ARE ACTIVELY USED THROUGHOUT THE DAY. FOR WASTE CONTAINERS THAT DO NOT HAVE LIDS, PROVIDE EITHER (1) COVER (E.G., A TARP, PLASTIC SHEETING, TEMPORARY ROOF) TO PREVENT EXPOSURE OF WASTES TO PRECIPITATION, OR (2) A SIMILARLY EFFECTIVE MEANS DESIGNED TO PREVENT THE DISCHARGE OF POLLUTANTS (E.G., SECONDARY CONTAINMENT). (SECTION 2.3.7)
- 20. PREVENT TRACKING OF SEDIMENT ONTO PUBLIC OR PRIVATE ROADS USING BMPs SUCH AS: CONSTRUCTION ENTRANCE, GRAVELED (OR PAVED) EXITS AND PARKING AREAS, GRAVELED UNPAVED ROADS LOCATED ON-SITE, OR USE AN EXIT TIRE WASH. THESE BMPs MUST BE IN PLACE PRIOR TO LAND-DISTURBING ACTIVITIES. (SECTION 2.2.7)
- 21. WHEN TRUCKING SATURATED SOILS FROM THE SITE, EITHER USE WATER-TIGHT TRUCKS OR DRAIN LOADS ON SITE. (SECTION 2.2.7.F)
- 22. CONTROL PROHIBITED DISCHARGES FROM LEAVING THE CONSTRUCTION SITE, I.E., CONCRETE WASH-OUT, WASTEWATER FROM CLEANOUT OF STUCCO, PAINT AND CURING COMPOUNDS. (SECTIONS 1.5 AND 2.3.9)
- 23. ENSURE THAT STEEP SLOPE AREAS WHERE CONSTRUCTION ACTIVITIES ARE NOT OCCURRING ARE NOT DISTURBED. (SECTION 2.2.10)
- 24. PREVENT SOIL COMPACTION IN AREAS WHERE POST-CONSTRUCTION INFILTRATION FACILITIES ARE TO BE INSTALLED. (SECTION 2.2.12)
- 25. USE BMPs TO PREVENT OR MINIMIZE STORMWATER EXPOSURE TO POLLUTANTS FROM SPILLS, VEHICLE AND EQUIPMENT FUELING, MAINTENANCE, AND STORAGE; OTHER CLEANING AND MAINTENANCE ACTIVITIES; AND WASTE HANDLING ACTIVITIES. THESE POLLUTANTS INCLUDE FUELS AND OTHER FLUIDS FROM VEHICLES AND MACHINERY, AS WELL AS DEBRIS, FERTILIZER, PESTICIDES AND HERBICIDES, PAINTS, SOLVENTS, CURING COMPOUNDS AND ADHESIVES FROM CONSTRUCTION OPERATIONS. (SECTIONS 2.2.15 AND 2.3)
- 26. PROVIDE PLANS FOR SEDIMENTATION BASINS THAT HAVE BEEN DESIGNED PER SECTION 2.2.17 AND STAMPED BY AN OREGON PROFESSIONAL ENGINEER. (SEE SECTION 2.2.17.A)
- 27. IF ENGINEERED SOILS ARE USED ON SITE, A SEDIMENTATION BASIN/POUNDMENT MUST BE INSTALLED. (SEE SECTIONS 2.2.17 AND 2.2.18)
- 28. PROVIDE A DEWATERING PLAN FOR ACCUMULATED WATER FROM PRECIPITATION AND UNCONTAMINATED GROUNDWATER SEEPAGE DUE TO SHALLOW EXCAVATION ACTIVITIES. (SEE SECTION 2.4)
- 29. IMPLEMENT THE FOLLOWING BMPs WHEN APPLICABLE: WRITTEN SPILL PREVENTION AND RESPONSE PROCEDURES, EMPLOYEE TRAINING ON SPILL PREVENTION AND PROPER DISPOSAL PROCEDURES, SPILL KITS IN ALL VEHICLES, REGULAR MAINTENANCE SCHEDULE FOR VEHICLES AND MACHINERY, MATERIAL DELIVERY AND STORAGE CONTROLS, TRAINING AND SIGNAGE, AND COVERED STORAGE AREAS FOR WASTE AND SUPPLIES. (SECTION 2.3)
- 30. USE WATER, SOIL-BINDING AGENT OR OTHER DUST CONTROL TECHNIQUE AS NEEDED TO AVOID WIND-BLOWN SOIL. (SECTION 2.2.9)
- 31. THE APPLICATION RATE OF FERTILIZERS USED TO REESTABLISH VEGETATION MUST FOLLOW MANUFACTURER'S RECOMMENDATIONS TO MINIMIZE NUTRIENT RELEASES TO SURFACE WATERS. EXERCISE CAUTION WHEN USING TIME-RELEASE FERTILIZERS WITHIN ANY WATERWAY RIPARIAN ZONE. (SECTION 2.3.5)
- 32. IF AN ACTIVE TREATMENT SYSTEM (FOR EXAMPLE, ELECTRO-COAGULATION, FLOCCULATION, FILTRATION, ETC.) FOR SEDIMENT OR OTHER POLLUTANT REMOVAL IS EMPLOYED, SUBMIT AN OPERATION AND MAINTENANCE PLAN (INCLUDING SYSTEM SCHEMATIC, LOCATION OF SYSTEM, LOCATION OF INLET, LOCATION OF DISCHARGE, DISCHARGE DISPERSION DEVICE DESIGN, AND A SAMPLING PLAN AND FREQUENCY) BEFORE OPERATING THE TREATMENT SYSTEM. OBTAIN ENVIRONMENTAL MANAGEMENT PLAN APPROVAL FROM DEQ BEFORE OPERATING THE TREATMENT SYSTEM, OPERATE AND MAINTAIN THE TREATMENT SYSTEM ACCORDING TO MANUFACTURER'S SPECIFICATIONS. (SECTION 1.2.9)
- 33. TEMPORARILY STABILIZE SOILS AT THE END OF THE SHIFT BEFORE HOLIDAYS AND WEEKENDS, IF NEEDED. THE REGISTRANT IS RESPONSIBLE FOR ENSURING THAT SOILS ARE STABLE DURING RAIN EVENTS AT ALL TIMES OF THE YEAR. (SECTION 2.2)
- 34. AS NEEDED BASED ON WEATHER CONDITIONS, AT THE END OF EACH WORKDAY SOIL STOCKPILES MUST BE STABILIZED OR COVERED, OR OTHER BMPs MUST BE IMPLEMENTED TO PREVENT DISCHARGES TO SURFACE WATERS OR CONVEYANCE SYSTEMS LEADING TO SURFACE WATERS. (SECTION 2.2.8)
- 35. SEDIMENT FENCE: REMOVE TRAPPED SEDIMENT BEFORE IT REACHES ONE THIRD OF THE ABOVE GROUND FENCE HEIGHT AND BEFORE FENCE REMOVAL. (SECTION 2.1.5.B)
- 36. OTHER SEDIMENT BARRIERS (SUCH AS BIOBAGS): REMOVE SEDIMENT BEFORE IT REACHES TWO INCHES DEPTH ABOVE GROUND HEIGHT AND BEFORE BMP REMOVAL. (SECTION 2.1.5.C)
- 37. CATCH BASINS: CLEAN BEFORE RETENTION CAPACITY HAS BEEN REDUCED BY FIFTY PERCENT. SEDIMENT BASINS AND SEDIMENT TRAPS: REMOVE TRAPPED SEDIMENTS BEFORE DESIGN CAPACITY HAS BEEN REDUCED BY FIFTY PERCENT AND AT COMPLETION OF PROJECT. (SECTION 2.1.5.D)
- 38. WITHIN 24 HOURS, SIGNIFICANT SEDIMENT THAT HAS LEFT THE CONSTRUCTION SITE, MUST BE REMEDIATED, INVESTIGATE THE CAUSE OF THE SEDIMENT RELEASE AND IMPLEMENT STEPS TO PREVENT A REOCCURRENCE OF THE DISCHARGE WITHIN THE SAME 24 HOURS. ANY IN-STREAM CLEANUP OF SEDIMENT SHALL BE PERFORMED ACCORDING TO THE OREGON DEPARTMENT OF STATE LANDS REQUIRED TIMEFRAME. (SECTION 2.2.19.A)
- 39. THE INTENTIONAL WASHING OF SEDIMENT INTO STORM SEWERS OR DRAINAGEWAYS MUST NOT OCCUR. VACUUMING OR DRY SWEEPING AND MATERIAL PICKUP MUST BE USED TO CLEANUP RELEASED SEDIMENTS. (SECTION 2.2.19)
- 40. DOCUMENT ANY PORTION(S) OF THE SITE WHERE LAND DISTURBING ACTIVITIES HAVE PERMANENTLY CEASED OR WILL BE TEMPORARILY INACTIVE FOR 14 OR MORE CALENDAR DAYS. (SECTION 6.5.F.)
- 41. PROVIDE TEMPORARY STABILIZATION FOR THAT PORTION OF THE SITE WHERE CONSTRUCTION ACTIVITIES CEASE FOR 14 DAYS OR MORE WITH A COVERING OF BLOWN STRAW AND A TACKIFIER, LOOSE STRAW, OR AN ADEQUATE COVERING OF COMPOST MULCH UNTIL WORK RESUMES ON THAT PORTION OF THE SITE. (SECTION 2.2.20)
- 42. DO NOT REMOVE TEMPORARY SEDIMENT CONTROL PRACTICES UNTIL PERMANENT VEGETATION OR OTHER COVER OF EXPOSED AREAS IS ESTABLISHED. ONCE CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED, ALL TEMPORARY EROSION CONTROLS AND RETAINED SOILS MUST BE REMOVED AND DISPOSED OF PROPERLY, UNLESS NEEDED FOR LONG TERM USE FOLLOWING TERMINATION OF PERMIT COVERAGE. (SECTION 2.2.21)

### NARRATIVE DESCRIPTIONS

#### EXISTING SITE CONDITIONS

\* UNDEVELOPED LAND

#### DEVELOPED CONDITIONS

\* INDUSTRIAL BUILDING AND STORAGE

#### NATURE OF CONSTRUCTION ACTIVITY AND ESTIMATED TIME TABLE

\*DEMOLITION OCT 2022 TO NOV 2022  
\*CLEARING AND GRUBBING MAR 2023 TO JUN 2023  
\*MASS GRADING APR 2023 TO JULY 2023  
\*UTILITY INSTALLATION JULY 2023 TO AUG 2023  
\*SITE CONSTRUCTION AUG 2023 TO OCT 2023  
\*FINAL STABILIZATION OCT 2023 TO NOV 2023

TOTAL SITE AREA = 386,732 SF (6.74 AC)

TOTAL DISTURBED AREA = 271,121 SF (6.22 AC)

#### SITE SOIL CLASSIFICATION: (FROM USGS)

5B - BRIDWELL STONY SILT LOAM, 0 TO 7 % SLOPES  
37B - QUATAMA LOAM, 3 TO 7 % SLOPES  
38B - SAUM SILT LOAM, 2 TO 7 % SLOPES  
39C - SAUM SILT LOAM, 7 TO 12 % SLOPES  
38D - SAUM SILT LOAM, 12 TO 20 % SLOPES  
43 - WAPATO SILTY CLAY LOAM  
63B - SALEM GRAVELLY SILT LOAM, 0 TO 7 % SLOPES

#### RECEIVING WATER BODIES:

NEAREST WATER BODY: COFFEE LAKE CREEK

#### PERMITTEE'S SITE INSPECTOR:

COMPANY: BUILT ENVIRONMENTS NORTHWEST  
INSPECTOR: PETER ZAGARYUK  
PHONE: (503) 816-1219  
E-MAIL: VZKCAVATION@GMAIL.COM  
CERTIFICATION: CWT21-1240, EXPIRES 05/13/2024

#### RATIONALE STATEMENT

A COMPREHENSIVE LIST OF AVAILABLE BEST MANAGEMENT PRACTICES (BMP) OPTIONS BASED ON DEQ'S GUIDANCE MANUAL HAS BEEN REVIEWED TO COMPLETE THIS EROSION AND SEDIMENT CONTROL PLAN. SOME OF THE ABOVE LISTED BMPs WERE NOT CHOSEN BECAUSE THEY WERE DETERMINED TO NOT EFFECTIVELY MANAGE EROSION PREVENTION AND SEDIMENT CONTROL FOR THIS PROJECT BASED ON SPECIFIC SITE CONDITIONS, INCLUDING SOIL CONDITIONS TOPOGRAPHIC CONSTRAINTS, ACCESSIBILITY TO THE SITE, AND OTHER RELATED CONDITIONS, AS THE PROJECT PROGRESSES AND THERE IS A NEED TO REVISE THE ESCP PLAN, AN ACTION PLAN WILL BE SUBMITTED.

INITIAL \_\_\_\_\_

### BMP MATRIX FOR CONSTRUCTION PHASES

REFER TO DEQ GUIDANCE MANUAL FOR A COMPREHENSIVE LIST OF AVAILABLE BMPs.

	DEMOLITION	CLEARING	MASS GRADING	UTILITY INSTALLATION	STREET CONSTRUCTION	FINAL STABILIZATION	WET WEATHER (OCT. 1 - MAY 31ST)
EROSION PREVENTION							
PRESERVE NATURAL VEGETATION	**X	X				X	X
GROUND COVER						X	X
HYDRAULIC APPLICATIONS			X	X	X		X
PLASTIC SHEETING			X	X	X		X
STRAW MULCH COVER	X						X
ROCK COVER							
DUST CONTROL	X	X	X	X	X		
TEMPORARY/PERMANENT SEEDING	X		X	X	X	X	X
BUFFER ZONE	**X	X	X	X	X	X	X
OTHER:							
SEDIMENT CONTROL							
SEDIMENT FENCE (INTERIOR)	**X	**X	X	X	X	X	X
STRAW WATTLES	**X	**X	X	X	X	X	X
FILTER BERM							
INLET PROTECTION	**X	**X	X	X	X	X	X
DEWATERING				X			
SEDIMENT TRAP							
NATURAL BUFFER ENCROACHMENT	X	X	X	X	X	X	X
OTHER:							
RUNOFF CONTROL							
CONSTRUCTION ENTRANCE	**X	**X	X	X			X
PIPE SLOPE DRAIN				X			
OUTLET PROTECTION				X			
SURFACE ROUGHENING			X	X			X
CHECK DAMS		X		X			X
OTHER:							
POLLUTION PREVENTION							
PROPER SIGNAGE	X	X	X	X	X	X	X
HAZ WASTE MGMT	X	X	X	X	X	X	X
SPILL KIT ON-SITE	X	X	X	X	X	X	X
CONCRETE WASHOUT AREA	X	X	X	X	X	X	X
OTHER:							

\* SIGNIFIES ADDITIONAL BMPs REQUIRED FOR WORK WITHIN 50' OF WATER OF THE STATE.  
\*\* SIGNIFIES BMP THAT WILL BE INSTALLED PRIOR TO ANY GROUND DISTURBING ACTIVITY.

### INSPECTION FREQUENCY TABLE

SITE CONDITION	MINIMUM FREQUENCY
1. ACTIVE PERIOD	ON INITIAL DATE THAT LAND DISTURBANCE ACTIVITIES COMMENCE. WITHIN 24 HOURS OF ANY STORM EVENT, INCLUDING RUNOFF FROM SNOWMELT, IS OCCURRING AND RESULTS IN DISCHARGE FROM THE SITE. AT LEAST ONCE EVERY FOURTEEN (14) DAYS, REGARDLESS OF WHETHER STORMWATER RUNOFF IS OCCURRING.
2. PRIOR TO THE SITE BECOMING INACTIVE OR IN ANTICIPATION OF SITE INACCESSIBILITY.	ONCE TO ENSURE THAT EROSION AND SEDIMENT CONTROL MEASURES ARE IN WORKING ORDER. ANY NECESSARY MAINTENANCE AND REPAIR MUST BE MADE PRIOR TO LEAVING THE SITE.
3. INACTIVE PERIODS GREATER THAN FOURTEEN (14) CONSECUTIVE CALENDAR DAYS.	THE INSPECTOR MAY REDUCE THE FREQUENCY OF INSPECTIONS IN ANY AREA OF THE SITE WHERE THE STABILIZATION STEPS IN SECTION 2.2.20 HAVE BEEN COMPLETED TO TWICE PER MONTH FOR THE FIRST MONTH, NO LESS THAN 14 CALENDAR DAYS APART, THEN ONCE PER MONTH.
4. PERIODS DURING WHICH THE SITE IS INACCESSIBLE DUE TO INCLEMENT WEATHER.	IF SAFE, ACCESSIBLE, AND PRACTICAL, INSPECTIONS MUST OCCUR DAILY AT A RELEVANT AND ACCESSIBLE DISCHARGE POINT OR DOWNSTREAM LOCATION OF THE RECEIVING WATERBODY.
5. PERIODS DURING WHICH CONSTRUCTION ACTIVITIES ARE SUSPENDED AND RUNOFF IS UNLIKELY DUE TO FROZEN CONDITIONS.	VISUAL MONITORING INSPECTIONS MAY BE TEMPORARILY SUSPENDED. IMMEDIATELY RESUME MONITORING UPON THAWING, OR WHEN WEATHER CONDITIONS MAKE DISCHARGES LIKELY.
6. PERIODS DURING WHICH CONSTRUCTION ACTIVITIES ARE CONDUCTED AND RUNOFF IS UNLIKELY DURING FROZEN CONDITIONS.	MONTHLY RESUME MONITORING IMMEDIATELY UPON MELT, OR WHEN WEATHER CONDITIONS MAKE DISCHARGES LIKELY.

- HOLD A PRE-CONSTRUCTION MEETING OF PROJECT PERSONNEL THAT INCLUDED THE INSPECTOR TO DISCUSS EROSION AND SEDIMENT CONTROL MEASURES AND CONSTRUCTION LIMITS
- ALL INSPECTIONS MUST BE MADE IN ACCORDANCE WITH DEQ 1200-C PERMIT REQUIREMENTS
- INSPECTION LOGS MUST BE KEPT IN ACCORDANCE WITH DEQ'S 1200-C PERMIT REQUIREMENTS
- RETAIN A COPY OF THE ESCP AND ALL REVISIONS ON SITE AND MAKE IT AVAILABLE ON REQUEST TO DEQ, AGENT, OR THE LOCAL MUNICIPALITY. DURING INACTIVE PERIODS OF GREATER THAN SEVEN (7) CONSECUTIVE CALENDAR DAYS, RETAIN THE ESCP AT THE CONSTRUCTION SITE OR AT ANOTHER LOCATION.

THE PERMITTEE IS REQUIRED TO MEET ALL THE CONDITIONS OF THE 1200-C PERMIT. THIS ESCP AND GENERAL CONDITIONS HAVE BEEN DEVELOPED TO FACILITATE COMPLIANCE WITH THE 1200-C PERMIT REQUIREMENTS. IN CASES OF DISCREPANCIES OR OMISSIONS, THE 1200-C PERMIT REQUIREMENTS SUPERCEDE REQUIREMENTS OF THIS PLAN.

### LOCAL AGENCY-SPECIFIC EROSION CONTROL NOTES:

1. IF VEGETATIVE SEED MIXES ARE SPECIFIED, SEEDING MUST TAKE PLACE NO LATER THAN SEPTEMBER 1; THE TYPE AND PERCENTAGES OF SEED IN THE MIX MUST BE IDENTIFIED ON THE PLANS.
2. ALL PUMPING OF SEDIMENT LADEN WATER SHALL BE DISCHARGED OVER AN UNDISTURBED, PREFERABLY VEGETATED AREA, AND THROUGH A SEDIMENT CONTROL BMP (E. FILTER BAG).
3. ALL EXPOSED SOILS MUST BE COVERED DURING THE WET WEATHER PERIOD, OCTOBER 01 - MAY 31.

### EROSION AND SEDIMENT CONTROL PLANS SHEET INDEX

- C4.00 EROSION AND SEDIMENT CONTROL COVER SHEET
- C4.10 DEMOLITION ESC PLAN
- C4.20 CLEARING ESC PLAN
- C4.30 MASS GRADING AND STABILIZATION RUNOFF CONTROL PLAN
- C4.40 UTILITY CONSTRUCTION ESC PLAN
- C4.50 FOUNDATION ESC PLAN
- C4.60 EROSION AND SEDIMENT CONTROL PLAN DETAILS

GENERAL PERMIT  
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM  
STORMWATER DISCHARGE PERMIT  
DATE: 09/15/2020  
FILE NO. 127017  
EPA NO. ORR10G282

Client  
**DELTA LOGISTICS**  
9835 SW COMMERCE  
CIRCLE  
WILSONVILLE, OR 97070

Project  
**DELTA LOGISTICS**  
SITE EXPANSION  
9710 SW DAY RD.  
CITY OF  
WILSONVILLE, OR



MACKENZIE 2025  
ALL RIGHTS RESERVED  
THESE DRAWINGS ARE THE PROPERTY OF  
MACKENZIE AND ARE NOT TO BE USED  
OR REPRODUCED IN ANY MANNER  
WITHOUT PRIOR WRITTEN PERMISSION

REVISION SCHEDULE		
Delta	Issued As	Issue Date

### EROSION AND SEDIMENT CONTROL COVER SHEET

SHEET  
**C4.00**

JOB NO. **2200502.00**



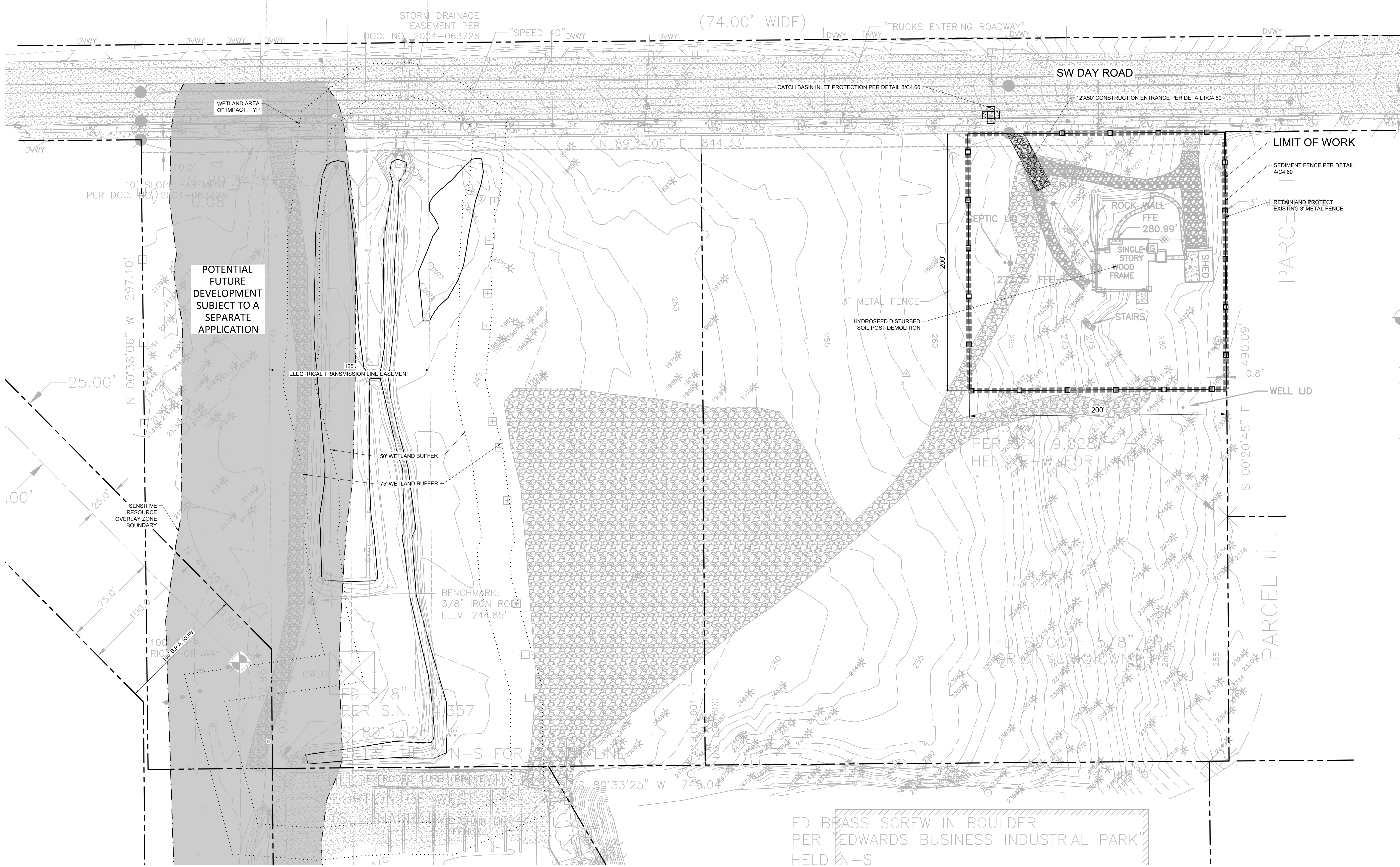
REVISION SCHEDULE		
Delta	Issued As	Issue Date

**DEMOLITION  
ESC PLAN**

SHEET

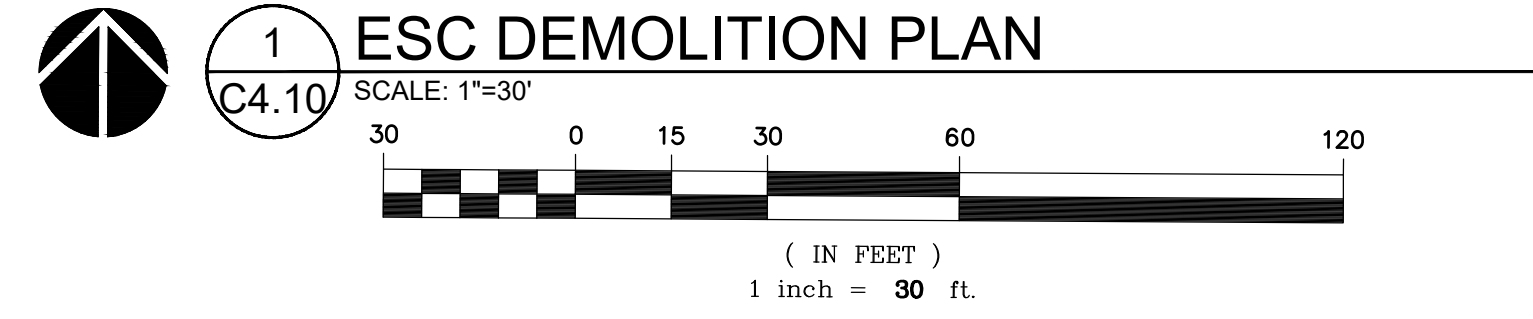
**C4.10**

JOB NO. **2200502.00**



**PRE-CONSTRUCTION, CLEARING, AND DEMOLITION NOTES:**

- ALL BASE ESC MEASURES (INLET PROTECTION, PERIMETER SEDIMENT CONTROL, GRAVEL CONSTRUCTION ENTRANCES, ETC.) MUST BE IN PLACE, FUNCTIONAL, AND APPROVED IN AN INITIAL INSPECTION PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.
- SEDIMENT BARRIERS APPROVED FOR USE INCLUDE SEDIMENT FENCE, BERMS, CONSTRUCTED OUT OF MULCH, CHIPPINGS OR OTHER SUITABLE MATERIAL, STRAW WATTLES, OR OTHER APPROVED MATERIALS.
- SENSITIVE RESOURCES INCLUDING, BUT NOT LIMITED TO, TREES, WETLANDS, AND RIPARIAN PROTECTION AREAS SHALL BE CLEARLY DELINEATED WITH ORANGE CONSTRUCTION FENCING OR CHAIN LINK FENCING IN A MANNER THAT IS CLEARLY VISIBLE TO ANYONE IN THE AREA. NO ACTIVITIES ARE PERMITTED TO OCCUR BEYOND THE CONSTRUCTION BARRIER.
- CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES INCLUDING, BUT NOT LIMITED TO, STREET SWEEPING, AND VACUUMING, MAY BE REQUIRED TO ENSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.
- RUN-ON AND RUN-OFF CONTROLS SHALL BE IN PLACE AND FUNCTIONING PRIOR TO BEGINNING SUBSTANTIAL CONSTRUCTION ACTIVITIES. RUN-ON AND RUN-OFF CONTROL MEASURES INCLUDE: SLOPE DRAINS (WITH OUTLET PROTECTION), CHECK DAMS, SURFACE EQUIPMENTING, AND BANK STABILIZATION.
- ADDITIONAL EROSION CONTROL MEASURES AND DETAILS CAN BE FOUND IN THE CLEAN WATER SERVICES' CONSTRUCTION AND DESIGN STANDARDS, 2017.





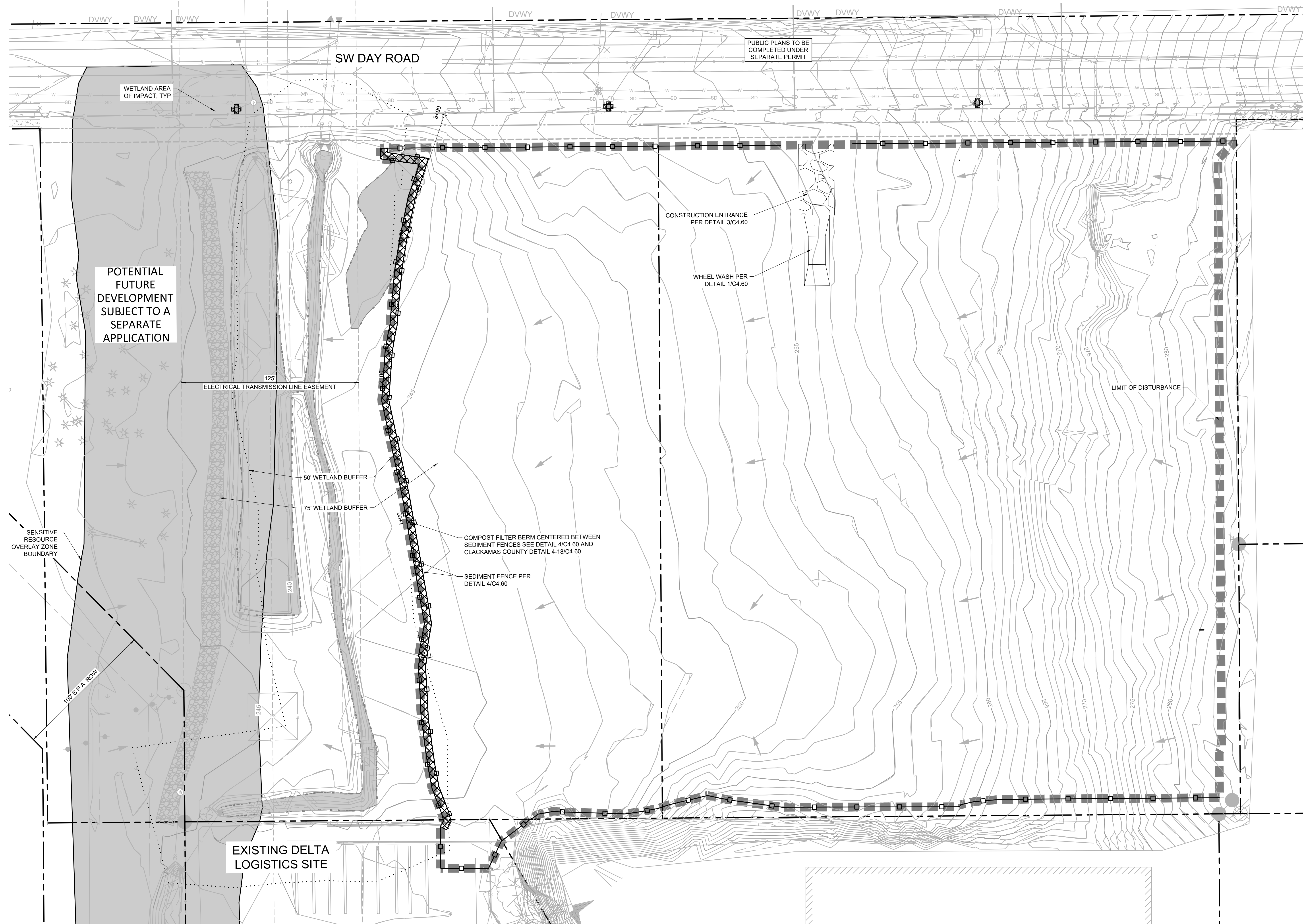
REVISION SCHEDULE		
Delta	Issued As	Issue Date

**CLEARING AND DEMOLITION ESC PLAN**

SHEET

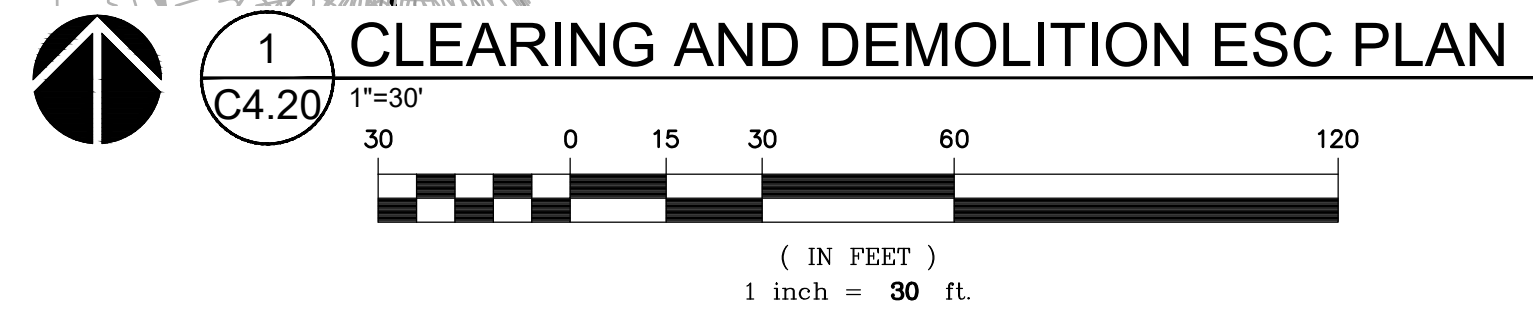
**C4.20**

JOB NO. **2200502.00**



**PRE-CONSTRUCTION, CLEARING, AND DEMOLITION NOTES:**

- ALL BASE ESC MEASURES (INLET PROTECTION, PERIMETER SEDIMENT CONTROL, GRAVEL CONSTRUCTION ENTRANCES, ETC) MUST BE IN PLACE, FUNCTIONAL, AND APPROVED IN AN INITIAL INSPECTION, PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.
- SEDIMENT BARRIERS APPROVED FOR USE INCLUDE SEDIMENT FENCE, BERMS, CONSTRUCTED OUT OF MULCH, CHIPPINGS OR OTHER SUITABLE MATERIAL, STRAW WATTLES, OR OTHER APPROVED MATERIALS.
- SENSITIVE RESOURCES INCLUDING, BUT NOT LIMITED TO, TREES, WETLANDS, AND RIPARIAN PROTECTION AREAS SHALL BE CLEARLY DELINEATED WITH ORANGE CONSTRUCTION FENCING OR CHAIN LINK FENCING IN A MANNER THAT IS CLEARLY VISIBLE TO ANYONE IN THE AREA. NO ACTIVITIES ARE PERMITTED TO OCCUR BEYOND THE CONSTRUCTION BARRIER.
- CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES INCLUDING, BUT NOT LIMITED TO, STREET SWEEPING, AND VACUUMING, MAY BE REQUIRED TO ENSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.
- RUN-ON AND RUN-OFF CONTROLS SHALL BE IN PLACE AND FUNCTIONING PRIOR TO BEGINNING SUBSTANTIAL CONSTRUCTION ACTIVITIES. RUN-ON AND RUN-OFF CONTROL MEASURES INCLUDE: SLOPE DRAINS (WITH OUTLET PROTECTION), CHECK DAMS, SURFACE ROUGHENING, AND BANK STABILIZATION.
- ADDITIONAL EROSION CONTROL MEASURES AND DETAILS CAN BE FOUND IN THE CLEAN WATER SERVICES'S CONSTRUCTION AND DESIGN STANDARDS, 2017.



**NEAREST OFFICIAL RAIN GAUGE**

WILSONVILLE TRANQUIL PARK STATION, WILSONVILLE, OREGON  
ELEV: 187 FT; 45.31° N, 122.77° W

**TYPICAL WORKING HOURS**

7AM - 5PM WEEKDAYS

STAGING AND STOCKPILE AREAS ARE TO BE DETERMINED BY THE CONTRACTOR AND ADJUSTED TO ACCOMMODATE THE PROGRESS OF CONSTRUCTION. THE OWNER'S EROSION CONTROL INSPECTOR SHALL BE MADE AWARE OF ALL CHANGES AND CONSULTED FOR BMP IMPLEMENTATIONS THAT MAY BE NECESSARY TO ACCOMMODATE THE SELECTED LOCATIONS.

THIS PLAN IS INTENDED TO BE ONLY A BASELINE APPROACH TO EROSION AND SEDIMENT CONTROL FOR THE PROJECT SITE. THE OWNER'S EROSION AND SEDIMENT CONTROL INSPECTOR SHALL BE RESPONSIBLE FOR INSTRUCTING THE CONTRACTOR TO ADJUST BMP'S AS NECESSARY TO PROPERLY MANAGE THE VARIOUS PHASES OF CONSTRUCTION AND ANY UNFORESEEN CONDITIONS REQUIRING DIFFERENT OR ADDITIONAL BMP'S TO MANAGE.

SEE SHEETS C4.60 FOR EROSION AND SEDIMENT CONTROL DETAILS

**LEGEND**

- EXISTING DRAINAGE FLOW DIRECTION
- SEDIMENT FENCE PER DETAIL 4/C4.60
- LIMIT OF DISTURBANCE
- CATCH BASIN SEDIMENT FILTER BAG PER DETAIL 2/C4.60
- WHEEL WASH PER DETAIL 1/C4.60
- GRAVEL CONSTRUCTION ENTRANCE PER DETAIL 3/C4.60
- COMPOSITE FILTER BERM PER DETAIL 7/C4.60







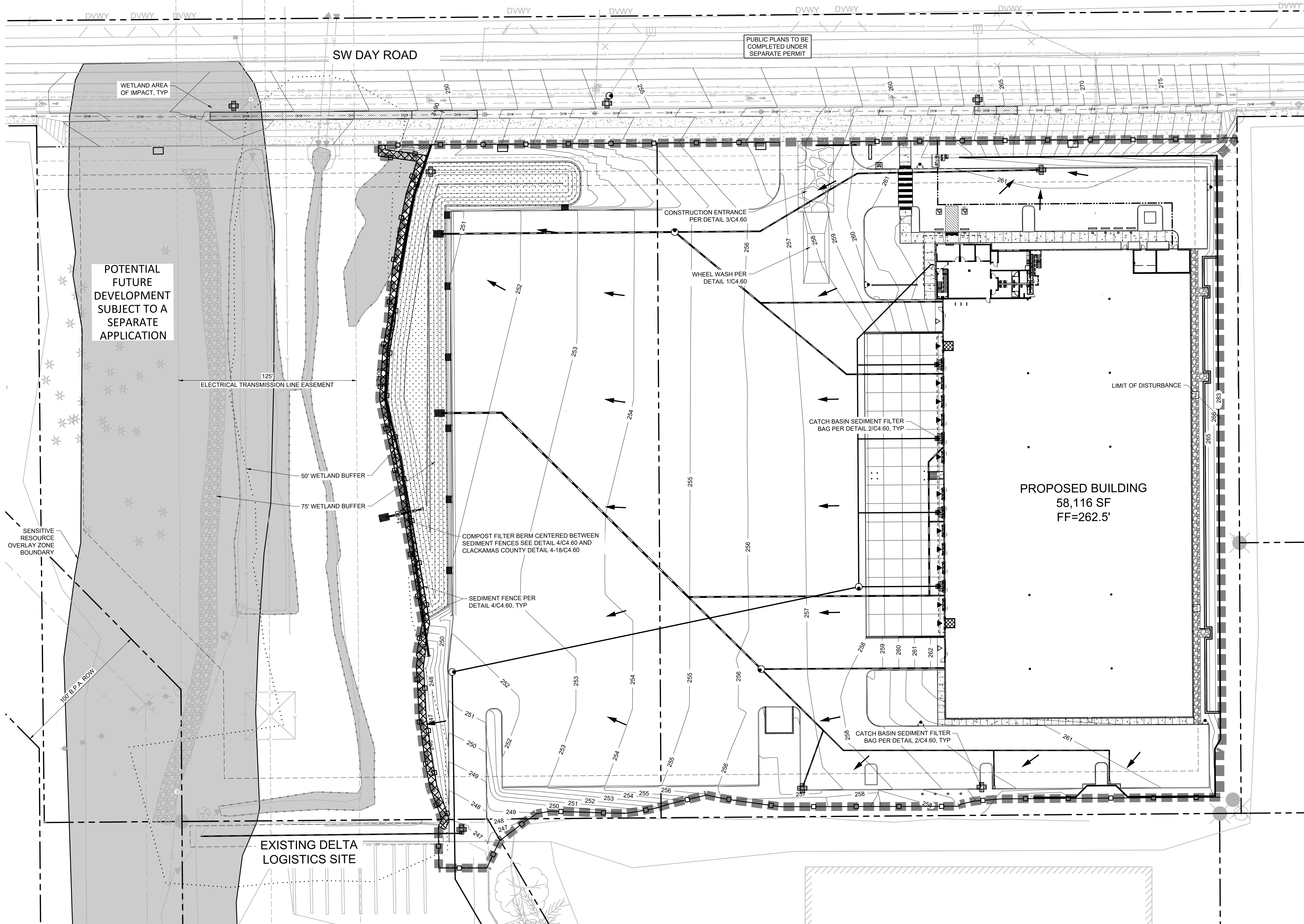
REVISION SCHEDULE		
Delta	Issued As	Issue Date

**UTILITY  
CONSTRUCTION  
ESC PLAN**

SHEET

**C4.40**

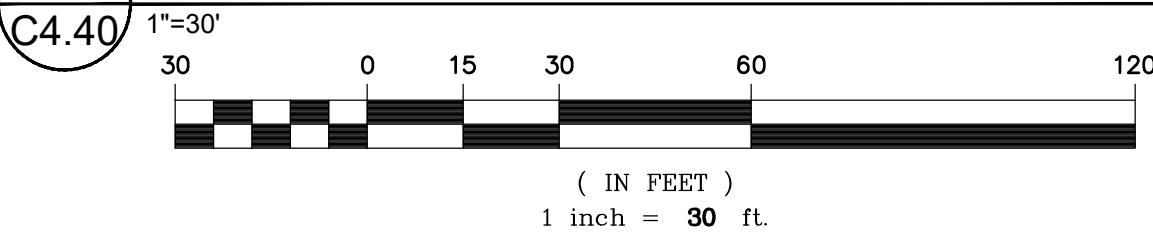
JOB NO. **2200502.00**



**EROSION CONTROL GENERAL NOTES**

- SEED USED FOR TEMPORARY OR PERMANENT SEEDING SHALL BE COMPOSED OF ONE OF THE FOLLOWING MIXTURES, UNLESS OTHERWISE AUTHORIZED:  
A. VEGETATED CORRIDOR AREAS REQUIRE NATIVE SEED MIXES. SEE RESTORATION PLAN FOR APPROPRIATE SEED MIX.  
B. DWARF GRASS MIX (MIN. 100 LB./AC.)
  - 1. DWARF PERENNIAL RYEGRASS (80% BY WEIGHT)
  - 2. CREEPING RED FESCUE (20% BY WEIGHT)  
C. STANDARD HEIGHT GRASS MIX (MIN. 100 LB./AC.)
  - 1. ANNUAL RYEGRASS (40% BY WEIGHT)
  - 2. TURF-TYPE FESCUE (60% BY WEIGHT)
- SLOPE TO RECEIVE TEMPORARY OR PERMANENT SEEDING SHALL HAVE THE SURFACE ROUGHENED BY MEANS OF TRACK-WALKING OR THE USE OF OTHER APPROVED IMPLEMENTS. SURFACE ROUGHENING IMPROVES SEED BEDDING AND REDUCES RUN-OFF VELOCITY.
- LONG TERM SLOPE STABILIZATION MEASURES SHALL INCLUDE THE ESTABLISHMENT OF PERMANENT VEGETATIVE COVER VIA SEEDING WITH APPROVED MIX AND APPLICATION RATE.
- TEMPORARY SLOPE STABILIZATION MEASURES SHALL INCLUDE COVERING EXPOSED SOIL WITH PLASTIC SHEETING, STRAW MULCHING, WOOD CHIPS, OR OTHER APPROVED MEASURES.
- STOCKPILED SOIL OR STRIPPINGS SHALL BE PLACED IN A STABLE LOCATION AND CONFIGURATION DURING "WET WEATHER" PERIODS. STOCKPILES SHALL BE COVERED WITH PLASTIC SHEETING OR STRAW MULCH. SEDIMENT FENCE IS REQUIRED AROUND THE PERIMETER OF THE STOCKPILE.
- EXPOSED CUT OR FILL AREAS SHALL BE STABILIZED THROUGH THE USE OF TEMPORARY SEEDING AND MULCHING, EROSION CONTROL BLANKETS OR MATS, MID-SLOPE SEDIMENT FENCES OR WATTLES, OR OTHER APPROPRIATE MEASURES. SLOPES EXCEEDING 25% MAY REQUIRE ADDITIONAL EROSION CONTROL MEASURES.
- AREAS SUBJECT TO WIND EROSION SHALL USE APPROPRIATE DUST CONTROL MEASURES INCLUDING THE APPLICATION OF A FINE SPRAY OF WATER, PLASTIC SHEETING, STRAW MULCHING, OR OTHER APPROVED MEASURES.
- CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES INCLUDING, BUT NOT LIMITED TO, TIRE WASHES, STREET SWEEPING, AND VACUUMING MAY BE REQUIRED TO INSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.
- ACTIVE INLETS TO STORM WATER SYSTEMS SHALL BE PROTECTED THROUGH THE USE OF APPROVED INLET PROTECTION MEASURES. ALL INLET PROTECTION MEASURES ARE TO BE REGULARLY INSPECTED AND MAINTAINED AS NEEDED.
- SATURATED MATERIALS THAT ARE HAULED OFF-SITE MUST BE TRANSPORTED IN WATER-TIGHT TRUCKS TO ELIMINATE SPILLAGE OF SEDIMENT AND SEDIMENT-LADEN WATER.
- AN AREA SHALL BE PROVIDED FOR THE WASHING OUT OF CONCRETE TRUCKS IN A LOCATION THAT DOES NOT PROVIDE RUN-OFF THAT CAN ENTER THE STORM WATER SYSTEM. IF THE CONCRETE WASH-OUT AREA CAN NOT BE CONSTRUCTED GREATER THAN 50' FROM ANY DISCHARGE POINT, SECONDARY MEASURES SUCH AS BERMS OR TEMPORARY SETTLING PITS MAY BE REQUIRED. THE WASH-OUT SHALL BE LOCATED WITHIN SIX FEET OF TRUCK ACCESS AND BE CLEANED WHEN IT REACHES 50% OF THE CAPACITY.
- SWEEPINGS FROM EXPOSED AGGREGATE CONCRETE SHALL NOT BE TRANSFERRED TO THE STORM WATER SYSTEM. SWEEPINGS SHALL BE PICKED UP AND DISPOSED IN THE TRASH.
- AVOID PAVING IN WET WEATHER WHEN PAVING CHEMICALS CAN RUN-OFF INTO THE STORM WATER SYSTEM.
- USE BMPs SUCH AS CHECK-DAMS, BERMS, AND INLET PROTECTION TO PREVENT RUN-OFF FROM REACHING DISCHARGE POINTS.
- COVER CATCH BASINS, MANHOLES, AND OTHER DISCHARGE POINTS WHEN APPLYING SEAL COAT, TACK COAT, ETC. TO PREVENT INTRODUCING THESE MATERIALS TO THE STORM WATER SYSTEM.

**1 UTILITY CONSTRUCTION ESC PLAN**



SPILL KIT AND SPILL RESPONSE PROCEDURES SHALL BE KEPT IN/ON THE JOBSITE TRAILER AT ALL TIMES AND ALL FIELD PERSONNEL SHALL BE MADE AWARE

STAGING AND STOCKPILE AREAS ARE TO BE DETERMINED BY THE CONTRACTOR AND ADJUSTED TO ACCOMMODATE THE PROGRESS OF CONSTRUCTION. THE OWNER'S EROSION CONTROL INSPECTOR SHALL BE MADE AWARE OF ALL CHANGES AND CONSULTED FOR BMP IMPLEMENTATIONS THAT MAY BE NECESSARY TO ACCOMMODATE THE SELECTED LOCATIONS.

THIS PLAN IS INTENDED TO BE ONLY A BASELINE APPROACH TO EROSION AND SEDIMENT CONTROL FOR THE PROJECT SITE. THE OWNER'S EROSION AND SEDIMENT CONTROL INSPECTOR SHALL BE RESPONSIBLE FOR INSTRUCTING THE CONTRACTOR TO ADJUST BMPs AS NECESSARY TO PROPERLY MANAGE THE VARIOUS PHASES OF CONSTRUCTION AND ANY UNFORESEEN CONDITIONS REQUIRING DIFFERENT OR ADDITIONAL BMPs TO MANAGE.

SEE SHEETS C4.60 FOR EROSION AND SEDIMENT CONTROL DETAILS

**EROSION AND SEDIMENT CONTROL BMP IMPLEMENTATION**

- ALL BASE ESC MEASURES (INLET PROTECTION, PERIMETER SEDIMENT CONTROL, GRAVEL CONSTRUCTION ENTRANCES, ETC.) MUST BE IN PLACE, FUNCTIONAL, AND APPROVED IN AN INITIAL INSPECTION PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.
- ALL "SEDIMENT BARRIERS" TO BE INSTALLED AFTER GRADING SHALL BE INSTALLED IMMEDIATELY FOLLOWING ESTABLISHMENT OF FINISHED GRADE AS SHOWN ON THESE PLANS.
- LONG TERM SLOPE STABILIZATION MEASURES "INCLUDING MATTING" SHALL BE IN PLACE OVER ALL EXPOSED SOILS BY OCTOBER 1.
- THE STORM WATER FACILITY SHALL BE CONSTRUCTED PRIOR TO THE STORM WATER SYSTEM FUNCTIONING AND SITE PAVING.
- INLET PROTECTION SHALL BE IN-PLACE IMMEDIATELY FOLLOWING PAVING ACTIVITIES.

**DEWATERING NOTE**

- CONTRACTOR SHALL MONITOR DEWATERING OPERATIONS WITH DAILY INSPECTIONS DURING DEWATERING OPERATIONS.
- DEWATERING TECHNIQUES SHALL INCLUDE A PUMP AND HOSE TO CONVEY THE DEWATERING FLOW TO APPROVED LOCATIONS. THE APPROVED LOCATIONS IS THE STORM FILTRATION BASIN.
- DEWATERING INTO THE STORM DETENTION WATER QUALITY BASIN MAY ONLY PROCEED ONCE THE DETENTION SYSTEM INLET RIP-RAP AND OUTLET APPURTENANCES AND RIP-RAP OUTFALL ARE INSTALLED AND PERMANENT SOIL STABILIZATION IS IN PLACE
- TRENCH AND FOUNDATION EXCAVATIONS SHALL BE PROTECTED DURING WET WEATHER FROM OVER SATURATION.
- DEWATERING OPERATIONS LEFT OVERNIGHT SHALL BE INSPECTED IMMEDIATELY IN THE MORNING. IF DEWATERING OPERATIONS ARE LEFT IN OPERATION OVER WEEKENDS, HOLIDAYS OR MORE THAN 24 HOURS, THE CONTRACTOR SHALL PROVIDE DAILY INSPECTIONS AND PROVIDE FOR INSPECTION WITHIN 2 HOURS AFTER RAIN EVENTS PRODUCING MORE THAN 0.5-INCHES IN A 24-HOUR PERIOD.

**LEGEND**

- EXISTING DRAINAGE FLOW DIRECTION
- PROPOSED DRAINAGE FLOW DIRECTION
- SEDIMENT FENCE PER DETAIL 4/C4.60
- LIMIT OF DISTURBANCE
- CATCH BASIN SEDIMENT FILTER BAG PER DETAIL 2/C4.60
- WHEEL WASH PER DETAIL 1/C4.60
- GRAVEL CONSTRUCTION ENTRANCE PER DETAIL 3/C4.60
- COMPOSITE FILTER BERM PER DETAIL 7/C4.60

SHEET

**C4.40**

JOB NO. **2200502.00**



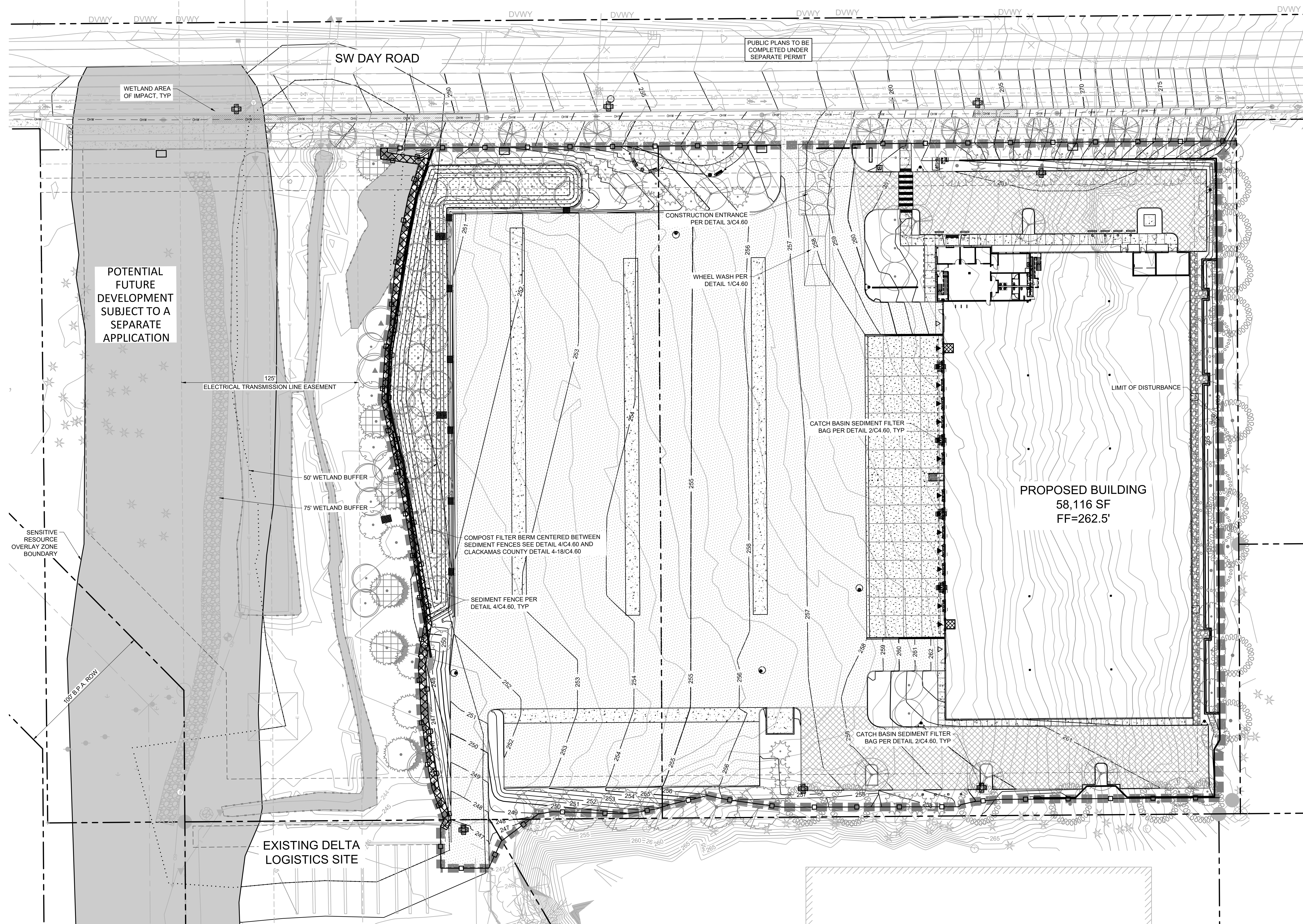
REVISION SCHEDULE		
Delta	Issued As	Issue Date

**FOUNDATION  
ESC PLAN**

SHEET

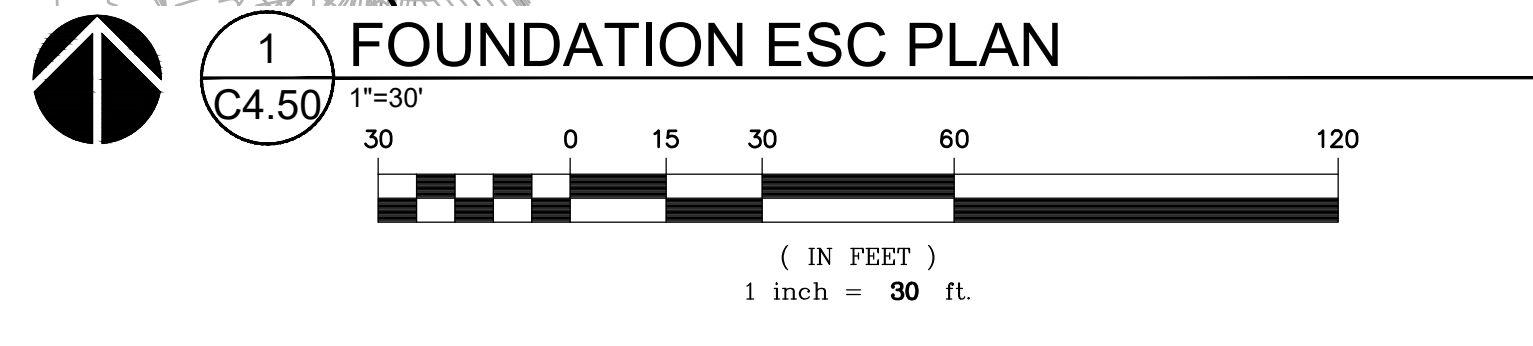
**C4.50**

JOB NO. **2200502.00**



**EROSION CONTROL GENERAL NOTES**

- SEED USED FOR TEMPORARY OR PERMANENT SEEDING SHALL BE COMPOSED OF ONE OF THE FOLLOWING MIXTURES, UNLESS OTHERWISE AUTHORIZED:  
A. VEGETATED CORRIDOR AREAS REQUIRE NATIVE SEED MIXES. SEE RESTORATION PLAN FOR APPROPRIATE SEED MIX.  
B. DWARF GRASS MIX (MIN. 100 LB./AC.)  
1. DWARF PERENNIAL RYEGRASS (80% BY WEIGHT)  
2. CREEPING RED FESCUE (20% BY WEIGHT)  
C. STANDARD HEIGHT GRASS MIX (MIN. 100 LB./AC.)  
1. ANNUAL RYEGRASS (40% BY WEIGHT)  
2. TURF-TYPE FESCUE (60% BY WEIGHT)
- SLOPE TO RECEIVE TEMPORARY OR PERMANENT SEEDING SHALL HAVE THE SURFACE ROUGHENED BY MEANS OF TRACK-WALKING OR THE USE OF OTHER APPROVED IMPLEMENTS. SURFACE ROUGHENING IMPROVES SEED BEDDING AND REDUCES RUN-OFF VELOCITY.
- LONG TERM SLOPE STABILIZATION MEASURES SHALL INCLUDE THE ESTABLISHMENT OF PERMANENT VEGETATIVE COVER VIA SEEDING WITH APPROVED MIX AND APPLICATION RATE.
- TEMPORARY SLOPE STABILIZATION MEASURES SHALL INCLUDE COVERING EXPOSED SOIL WITH PLASTIC SHEETING, STRAW MULCHING, WOOD CHIPS, OR OTHER APPROVED MEASURES.
- STOCKPILED SOIL OR STRIPPINGS SHALL BE PLACED IN A STABLE LOCATION AND CONFIGURATION DURING "WET WEATHER" PERIODS. STOCKPILES SHALL BE COVERED WITH PLASTIC SHEETING OR STRAW MULCH. SEDIMENT FENCE IS REQUIRED AROUND THE PERIMETER OF THE STOCKPILE.
- EXPOSED CUT OR FILL AREAS SHALL BE STABILIZED THROUGH THE USE OF TEMPORARY SEEDING AND MULCHING, EROSION CONTROL BLANKETS OR MATS, MID-SLOPE SEDIMENT FENCES OR WATTLES, OR OTHER APPROPRIATE MEASURES. SLOPES EXCEEDING 25% MAY REQUIRE ADDITIONAL EROSION CONTROL MEASURES.
- AREAS SUBJECT TO WIND EROSION SHALL USE APPROPRIATE DUST CONTROL MEASURES INCLUDING THE APPLICATION OF A FINE SPRAY OF WATER, PLASTIC SHEETING, STRAW MULCHING, OR OTHER APPROVED MEASURES.
- CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES INCLUDING, BUT NOT LIMITED TO, TIRE WASHES, STREET SWEEPING, AND VACUUMING MAY BE REQUIRED TO INSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.
- ACTIVE INLETS TO STORM WATER SYSTEMS SHALL BE PROTECTED THROUGH THE USE OF APPROVED INLET PROTECTION MEASURES. ALL INLET PROTECTION MEASURES ARE TO BE REGULARLY INSPECTED AND MAINTAINED AS NEEDED.
- SATURATED MATERIALS THAT ARE HAULED OFF-SITE MUST BE TRANSPORTED IN WATER-TIGHT TRUCKS TO ELIMINATE SPILLAGE OF SEDIMENT AND SEDIMENT-LADEN WATER.
- AN AREA SHALL BE PROVIDED FOR THE WASHING OUT OF CONCRETE TRUCKS IN A LOCATION THAT DOES NOT PROVIDE RUN-OFF THAT CAN ENTER THE STORM WATER SYSTEM. IF THE CONCRETE WASH-OUT AREA CAN NOT BE CONSTRUCTED GREATER THAN 50' FROM ANY DISCHARGE POINT, SECONDARY MEASURES SUCH AS BERMS OR TEMPORARY SETTLING PITS MAY BE REQUIRED. THE WASH-OUT SHALL BE LOCATED WITHIN SIX FEET OF TRUCK ACCESS AND BE CLEANED WHEN IT REACHES 50% OF THE CAPACITY.
- SWEEPINGS FROM EXPOSED AGGREGATE CONCRETE SHALL NOT BE TRANSFERRED TO THE STORM WATER SYSTEM. SWEEPINGS SHALL BE PICKED UP AND DISPOSED IN THE TRASH.
- AVOID PAVING IN WET WEATHER WHEN PAVING CHEMICALS CAN RUN-OFF INTO THE STORM WATER SYSTEM.
- USE BMPs SUCH AS CHECK-DAMS, BERMS, AND INLET PROTECTION TO PREVENT RUN-OFF FROM REACHING DISCHARGE POINTS.
- COVER CATCH BASINS, MANHOLES, AND OTHER DISCHARGE POINTS WHEN APPLYING SEAL COAT, TACK COAT, ETC. TO PREVENT INTRODUCING THESE MATERIALS TO THE STORM WATER SYSTEM.



**EROSION AND SEDIMENT CONTROL BMP IMPLEMENTATION**

- ALL BASE ESC MEASURES (INLET PROTECTION, PERIMETER SEDIMENT CONTROL, GRAVEL CONSTRUCTION ENTRANCES, ETC.) MUST BE IN PLACE, FUNCTIONAL, AND APPROVED IN AN INITIAL INSPECTION PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.
- ALL "SEDIMENT BARRIERS" TO BE INSTALLED AFTER GRADING SHALL BE INSTALLED IMMEDIATELY FOLLOWING ESTABLISHMENT OF FINISHED GRADE AS SHOWN ON THESE PLANS.
- LONG TERM SLOPE STABILIZATION MEASURES "INCLUDING MATTING" SHALL BE IN PLACE OVER ALL EXPOSED SOILS BY OCTOBER 1.
- THE STORM WATER FACILITY SHALL BE CONSTRUCTED PRIOR TO THE STORM WATER SYSTEM FUNCTIONING AND SITE PAVING.
- INLET PROTECTION SHALL BE IN-PLACE IMMEDIATELY FOLLOWING PAVING ACTIVITIES.

**DEWATERING NOTE**

- CONTRACTOR SHALL MONITOR DEWATERING OPERATIONS WITH DAILY INSPECTIONS DURING DEWATERING OPERATIONS.
- DEWATERING TECHNIQUES SHALL INCLUDE A PUMP AND HOSE TO CONVEY THE DEWATERING FLOW TO APPROVED LOCATIONS. THE APPROVED LOCATIONS IS THE STORM FILTRATION BASIN.
- DEWATERING INTO THE STORM DETENTION WATER QUALITY BASIN MAY ONLY PROCEED ONCE THE DETENTION SYSTEM INLET RIP-RAP AND OUTLET APPURTENANCES AND RIP-RAP OUTFALL ARE INSTALLED AND PERMANENT SOIL STABILIZATION IS IN PLACE.
- TRENCH AND FOUNDATION EXCAVATIONS SHALL BE PROTECTED DURING WET WEATHER FROM OVER SATURATION.
- DEWATERING OPERATIONS LEFT OVERNIGHT SHALL BE INSPECTED IMMEDIATELY IN THE MORNING. IF DEWATERING OPERATIONS ARE LEFT IN OPERATION OVER WEEKENDS, HOLIDAYS OR MORE THAN 24 HOURS, THE CONTRACTOR SHALL PROVIDE DAILY INSPECTIONS AND PROVIDE FOR INSPECTION WITHIN 2 HOURS AFTER RAIN EVENTS PRODUCING MORE THAN 0.5-INCHES IN A 24-HOUR PERIOD.

**LEGEND**

- SEDIMENT FENCE PER DETAIL 4/C4.60
- LIMIT OF DISTURBANCE
- INLET PROTECTION PER DETAIL 2/C4.60
- GRAVEL CONSTRUCTION ENTRANCE PER DETAIL 3/C4.60
- COMPOSITE FILTER BERM PER DETAIL 7/C4.60
- WHEEL WASH PER DETAIL 1/C4.60

SPILL KIT AND SPILL RESPONSE PROCEDURES SHALL BE KEPT IN/ON THE JOBSITE TRAILER AT ALL TIMES AND ALL FIELD PERSONNEL SHALL BE MADE AWARE

STAGING AND STOCKPILE AREAS ARE TO BE DETERMINED BY THE CONTRACTOR AND ADJUSTED TO ACCOMMODATE THE PROGRESS OF CONSTRUCTION. THE OWNER'S EROSION AND SEDIMENT CONTROL INSPECTOR SHALL BE MADE AWARE OF ALL CHANGES AND CONSULTED FOR BMP IMPLEMENTATIONS THAT MAY BE NECESSARY TO ACCOMMODATE THE SELECTED LOCATIONS.

THIS PLAN IS INTENDED TO BE ONLY A BASELINE APPROACH TO EROSION AND SEDIMENT CONTROL FOR THE PROJECT SITE. THE OWNER'S EROSION AND SEDIMENT CONTROL INSPECTOR SHALL BE RESPONSIBLE FOR INSTRUCTING THE CONTRACTOR TO ADJUST BMPs AS NECESSARY TO PROPERLY MANAGE THE VARIOUS PHASES OF CONSTRUCTION AND ANY UNFORESEEN CONDITIONS REQUIRING DIFFERENT OR ADDITIONAL BMPs TO MANAGE.

SEE SHEETS C4.60 FOR EROSION AND SEDIMENT CONTROL DETAILS



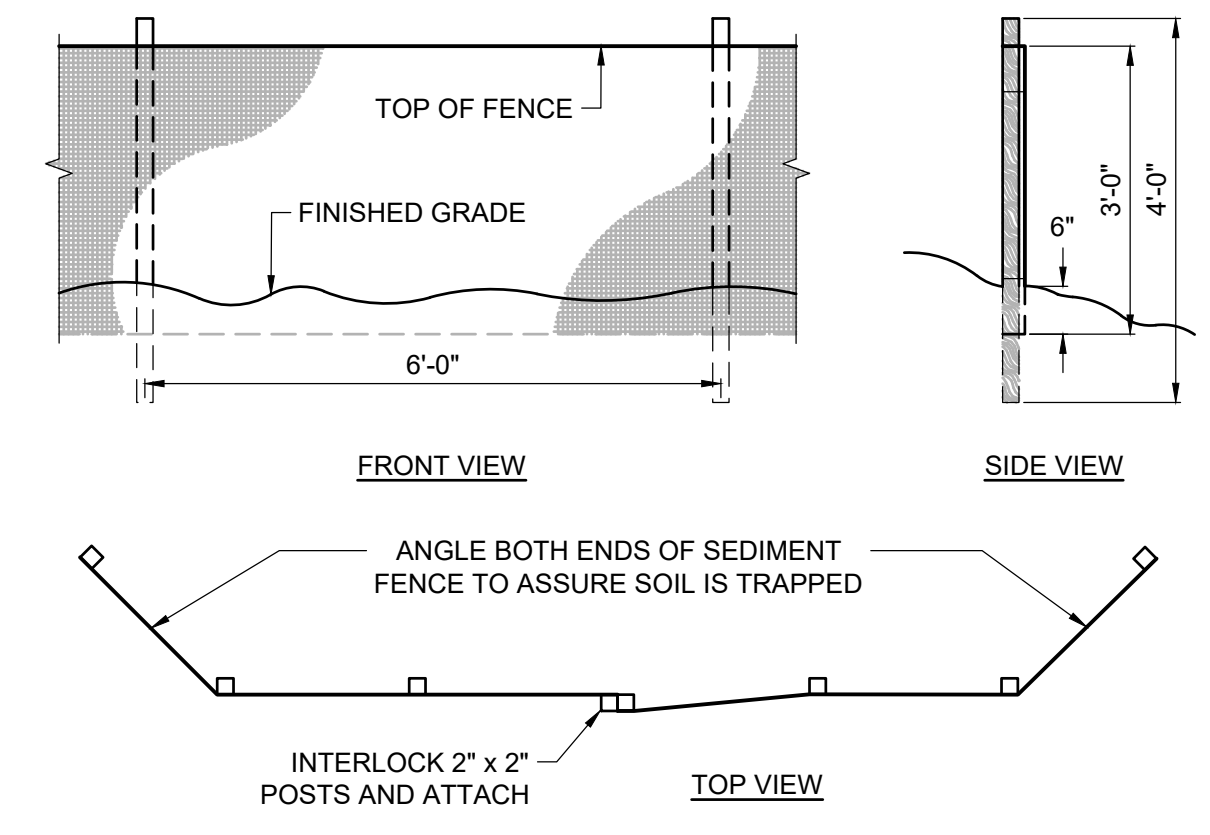
REVISION SCHEDULE		
Delta	Issued As	Issue Date

**EROSION AND  
SEDIMENT  
CONTROL PLAN  
DETAILS**

SHEET

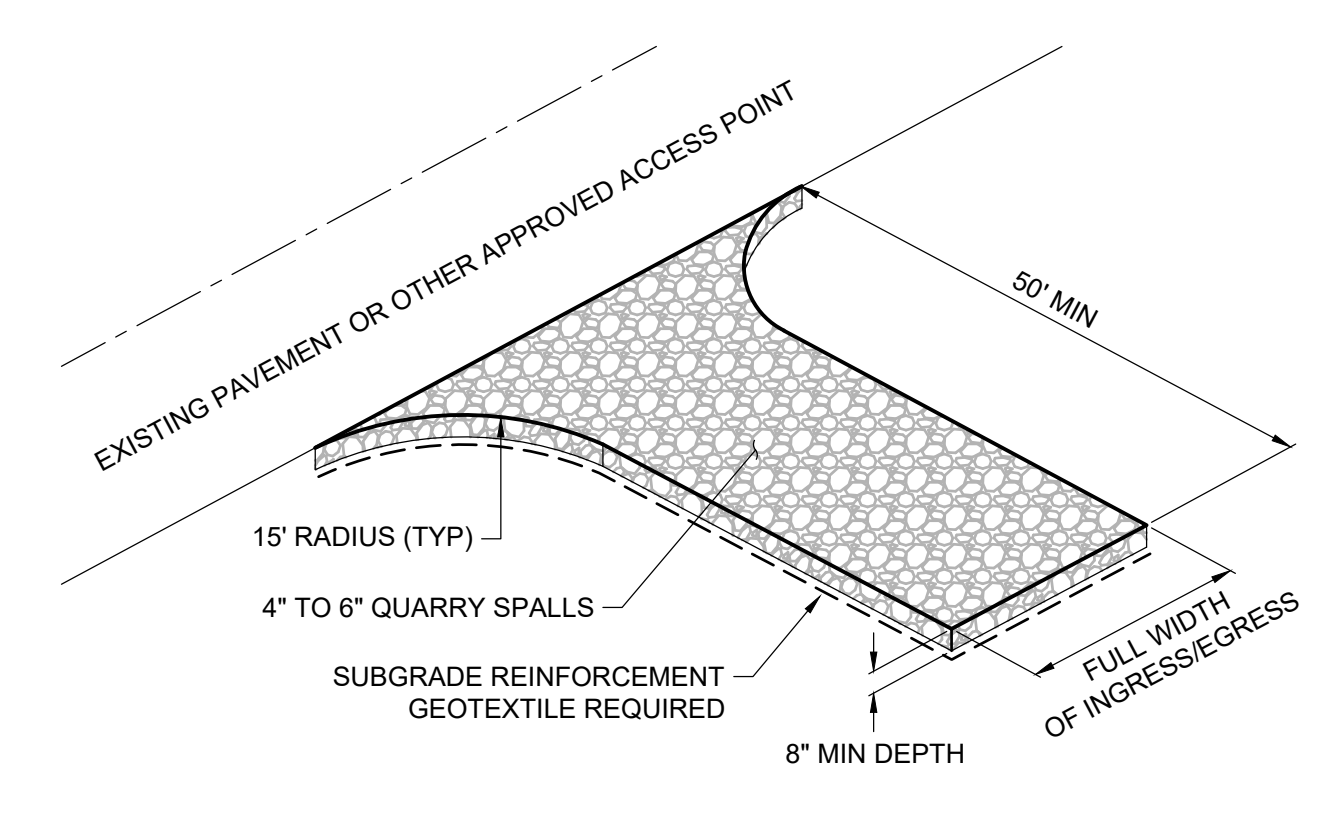
**C4.60**

JOB NO. **2200502.00**



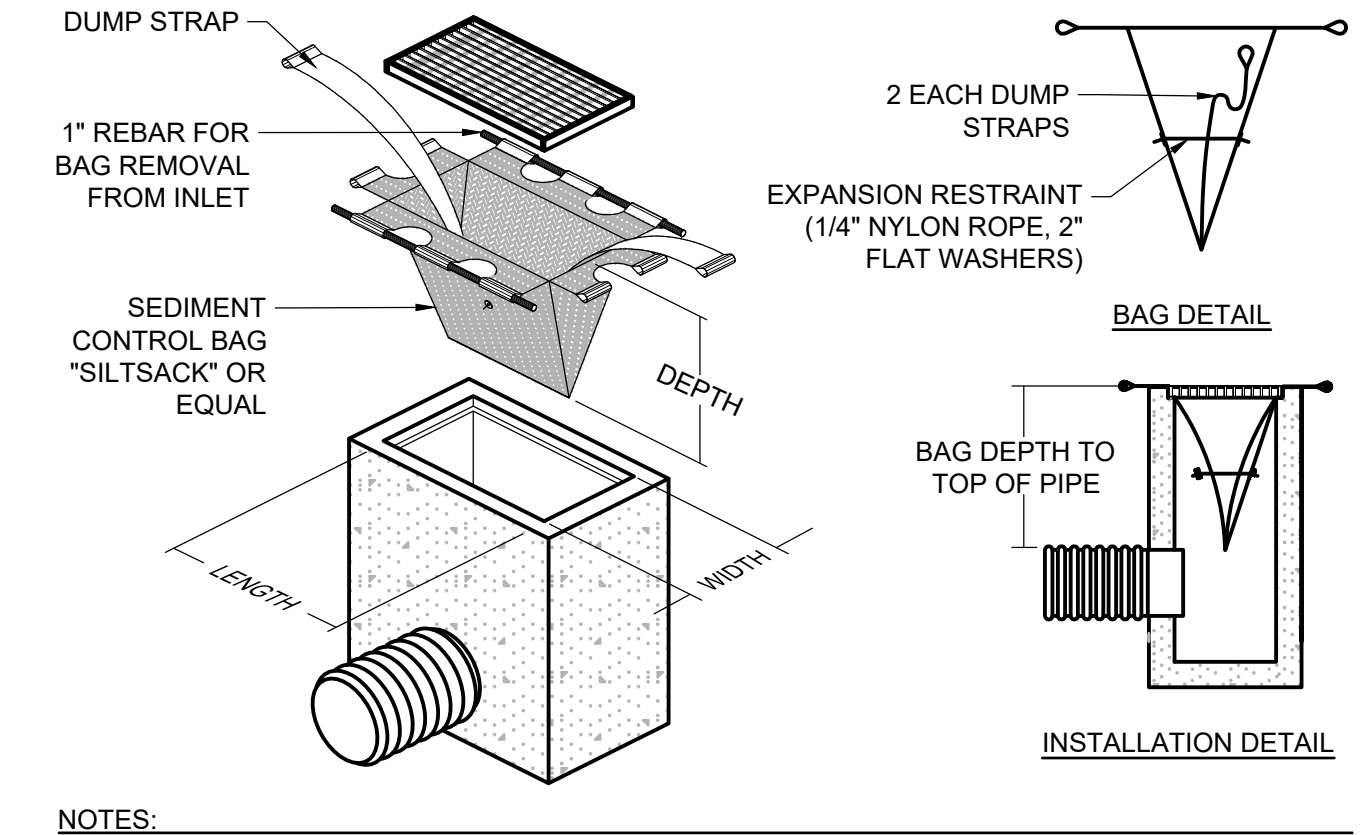
- NOTES:**
- BURY BOTTOM OF FILTER FABRIC 6" MIN VERTICALLY BELOW FINISHED GRADE
  - UTILIZE 2" x 2" FIR, PINE, OR STEEL FENCE POSTS TO ANCHOR FENCING
  - ATTACH FENCING TO POSTS USING STITCHED LOOPS INSTALLED ON UPHILL SIDE OF SLOPE
  - COMPACT THE NATIVE FILL IN ALL AREAS OF FILTER FABRIC TRENCH
  - ACCUMULATED SEDIMENT CAN BE ALLOWED TO REACH NO MORE THAN ONE-THIRD OF THE SEDIMENT FENCE HEIGHT

**4 SEDIMENT FENCE**  
C4.60 N.T.S.



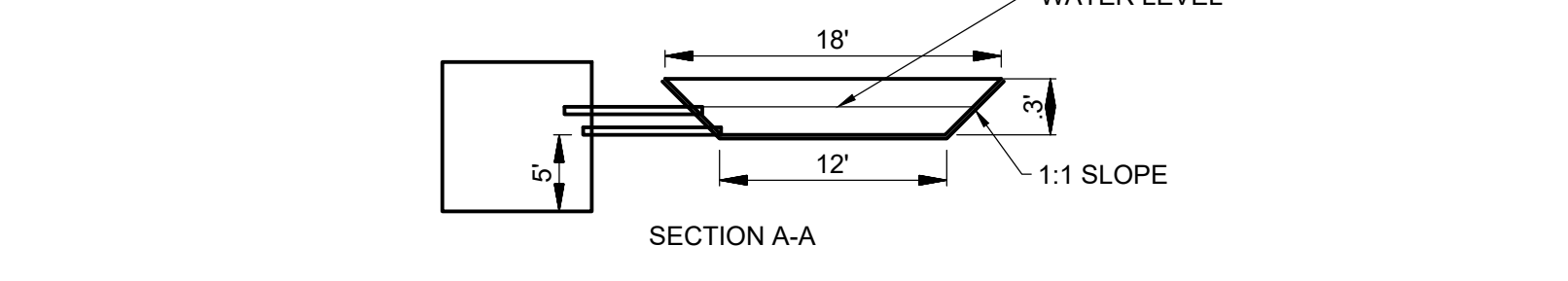
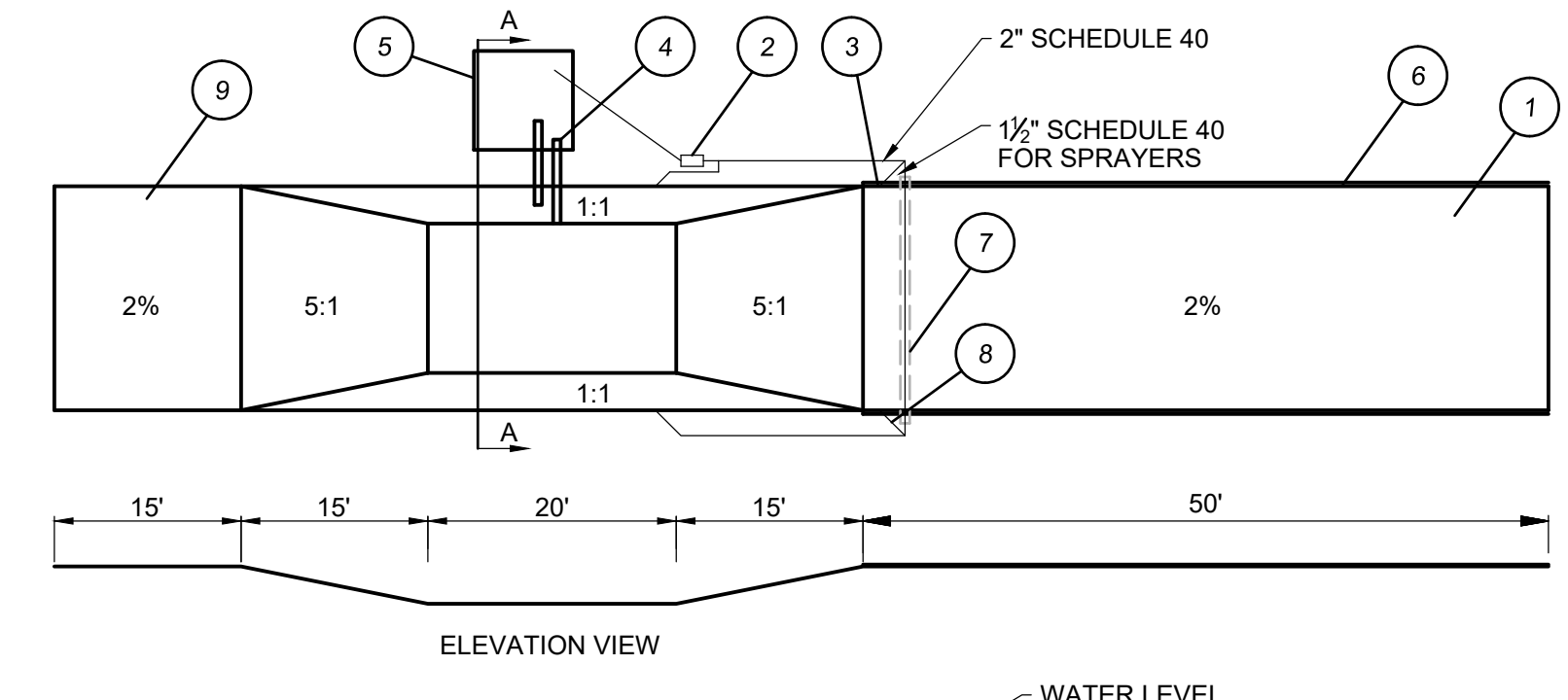
- NOTES:**
- QUARRY SPALL MATERIAL SHALL BE "CLEAN" (LESS THAN 5% PASSING THE US STANDARD NO 200 SIEVE)
  - CONTRACTOR IS RESPONSIBLE FOR OBTAINING APPROVALS FROM THE AUTHORITIES HAVING JURISDICTION FOR ALTERNATES, SUCH AS A RUMBLE TRACK
  - PROTECT CONSTRUCTION ENTRANCES FROM SILTATION FROM ADJOINING BARE SOIL AREAS
  - ANY RAMPING CONSTRUCTED TO MOUNT EXISTING ROADWAY CURBING SHALL NOT IMPEDE DRAINAGE OF THE ROADWAY

**3 CONSTRUCTION ENTRANCE**  
C4.60 N.T.S.

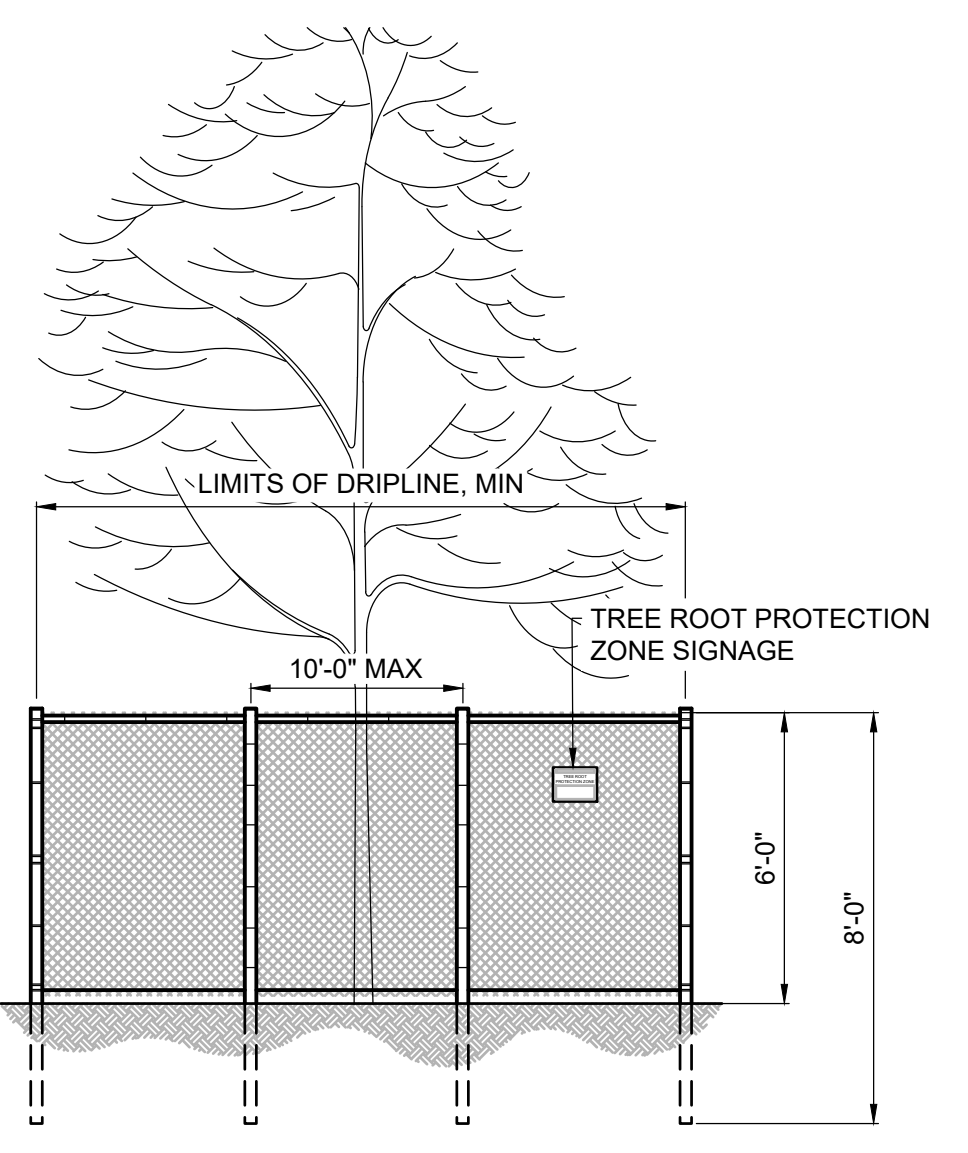


- NOTES:**
- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE CORRECT SIZE DEVICE FOR EACH INLET
  - THE INLET SEDIMENT CONTROL DEVICE SHALL BE OF NORMAL FLOW DESIGN, 40 GAL/MIN/SF WITH NO OVERFLOWS
  - THE SEDIMENT CONTROL DEVICE SHALL BE INSPECTED DAILY BY THE CONTRACTOR AND MAINTAINED A MINIMUM OF ONCE PER MONTH AND WITHIN THE 24 HOURS FOLLOWING A STORM EVENT
  - SUBSTITUTION OF A SHEET OF FILTER FABRIC PLACED OVER THE OPENING OF THE INLET IS NOT APPROVED

**2 CATCH BASIN SEDIMENT FILTER BAG**  
C4.60 N.T.S.



**1 WHEEL WASH**  
C4.60 N.T.S.

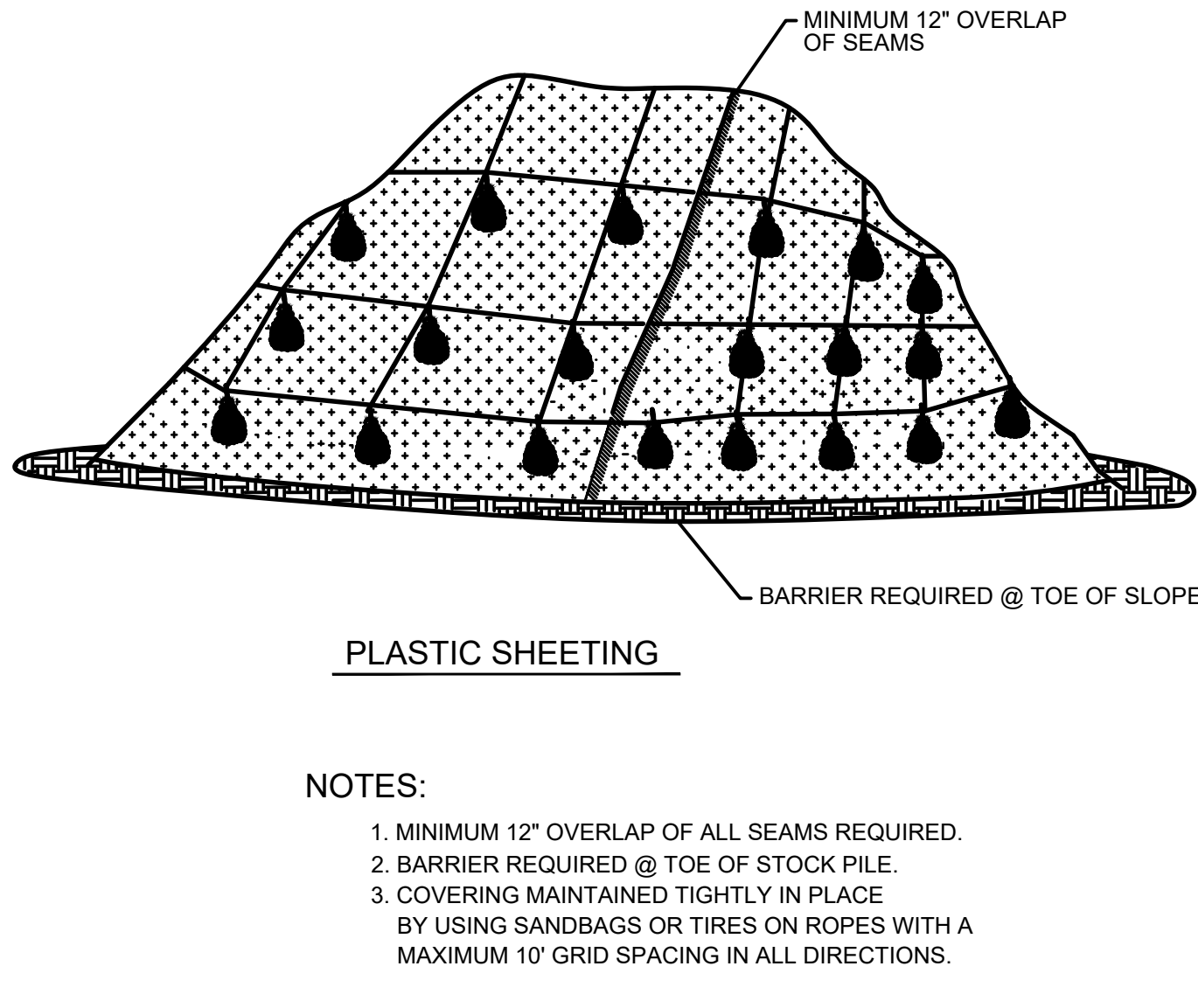


**6 TREE PROTECTION FENCING**  
C4.60 N.T.S.

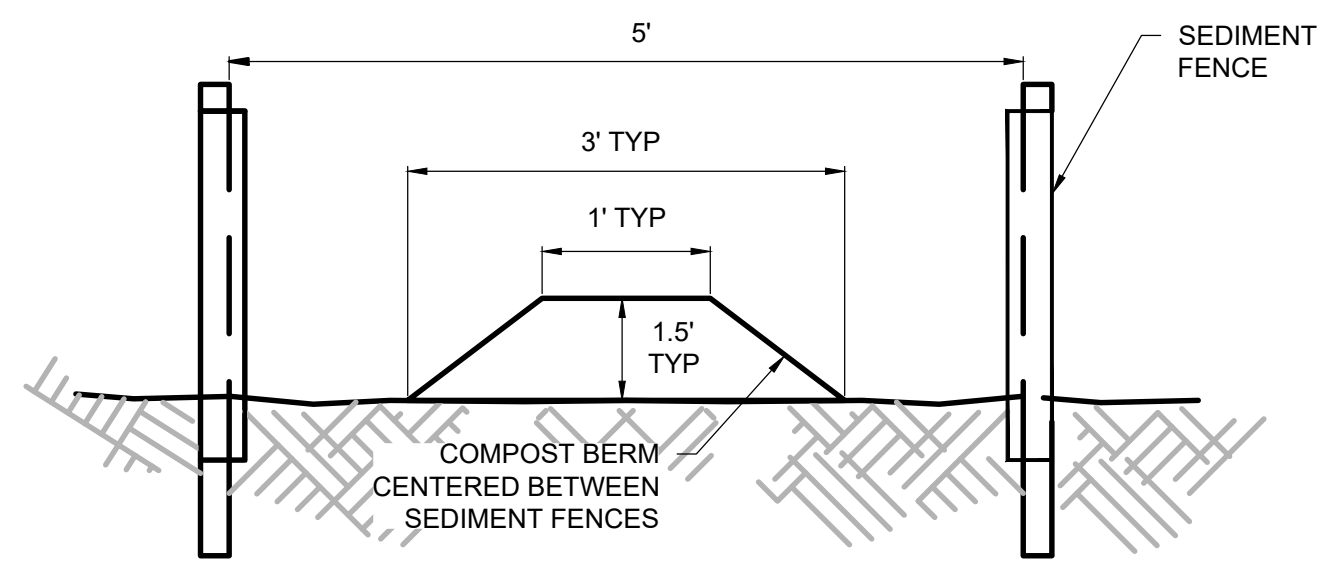
- NOTES:**
- ASPHALT CONSTRUCTION ENTRANCE - 6" ASPHALT TREATED BASE(ATB)
  - 3-INCH TRASH PUMP WITH FLOATS ON THE SUCTION HOSE
  - MIDPOINT SPRAY NOZZLES IF NEEDED
  - 6-INCH SEWER PIPE WITH BUTTERFLY VALVES. BOTTOM ONE IS A DRAIN. LOCATE TOP PIPES INVERT ONE FOOT ABOVE BOTTOM OF WHEEL WASH
  - 8"x8" SUMP WITH 5' OF CATCH. BUILD SO CAN BE CLEANED WITH TRACKHOE
  - ASPHALT CURB ON THE LOW ROAD SIDE TO DIRECT WATER BACK TO THE POND
  - 6-INCH SLEEVE UNDER ROAD
  - BALL VALVES
  - 15' ATB APRON TO PROTECT GROUND FROM SPLASHING WATER

- TREE PROTECTION MEASURES:**
- UNLESS OTHERWISE INDICATED FOR REMOVAL ALL TREES SHALL RECEIVE PROTECTIVE MEASURES FOR THE DURATION OF THE PROJECT IN ACCORDANCE WITH LOCAL AGENCY REQUIREMENTS
  - 6' HIGH MINIMUM METAL CHAIN LINK FENCING SHALL BE ERECTED AND MAINTAINED. FENCING SHALL COMPLETELY SURROUND AT MINIMUM THE TREE DRIP LINE FOR EACH TREE OR GROUP OF EXISTING TREES. THE TREE DRIP LINE SHALL BE DEFINED AS A CLEARANCE ZONE OF 1 FOOT PER 1 INCH DBH (DIAMETER AT BREAST HEIGHT + 4.5 FEET ABOVE GRADE) FROM THE TREE BEING PROTECTED
  - IN AREAS WHERE ROOT ZONE ENCROACHMENT IS UNAVOIDABLE, A CERTIFIED ARBORIST SHALL DESIGNATE THE FENCING LOCATION PRIOR TO START OF WORK. NO ACTIVITY MAY BE CONDUCTED WITHIN ANY DESIGNATED TREE PROTECTION AREA, INCLUDING BUT NOT LIMITED TO PARKING EQUIPMENT, PLACING SOLVENTS, STORING MATERIALS AND SOIL DEPOSITS, DUMPING CONCRETE WASHOUT OR OTHER DEBRIS, OR ANY EXCAVATION OR COMPACTION WORK
  - DURING CONSTRUCTION NO OBJECTS SHALL BE ATTACHED TO ANY TREE DESIGNATED TO BE RETAINED AND PROTECTED
  - PROVIDE MULCH COVER TO A MINIMUM DEPTH OF 6", PLYWOOD, OR OTHER SIMILAR MATERIAL AT AREAS ADJOINING DESIGNATED TREE PROTECTION AREAS TO PROTECT ROOTS FROM DAMAGE CAUSED BY HEAVY EQUIPMENT. COORDINATE PLACEMENTS AND LOCATION WITH THE LANDSCAPE ARCHITECT OR A CERTIFIED ARBORIST. PROTECTION FENCES SHALL BE MAINTAINED IN PLACE UNTIL REMOVAL IS AUTHORIZED BY THE AUTHORITY HAVING JURISDICTION OR UNTIL A FINAL CERTIFICATE OF OCCUPANCY IS ISSUED.

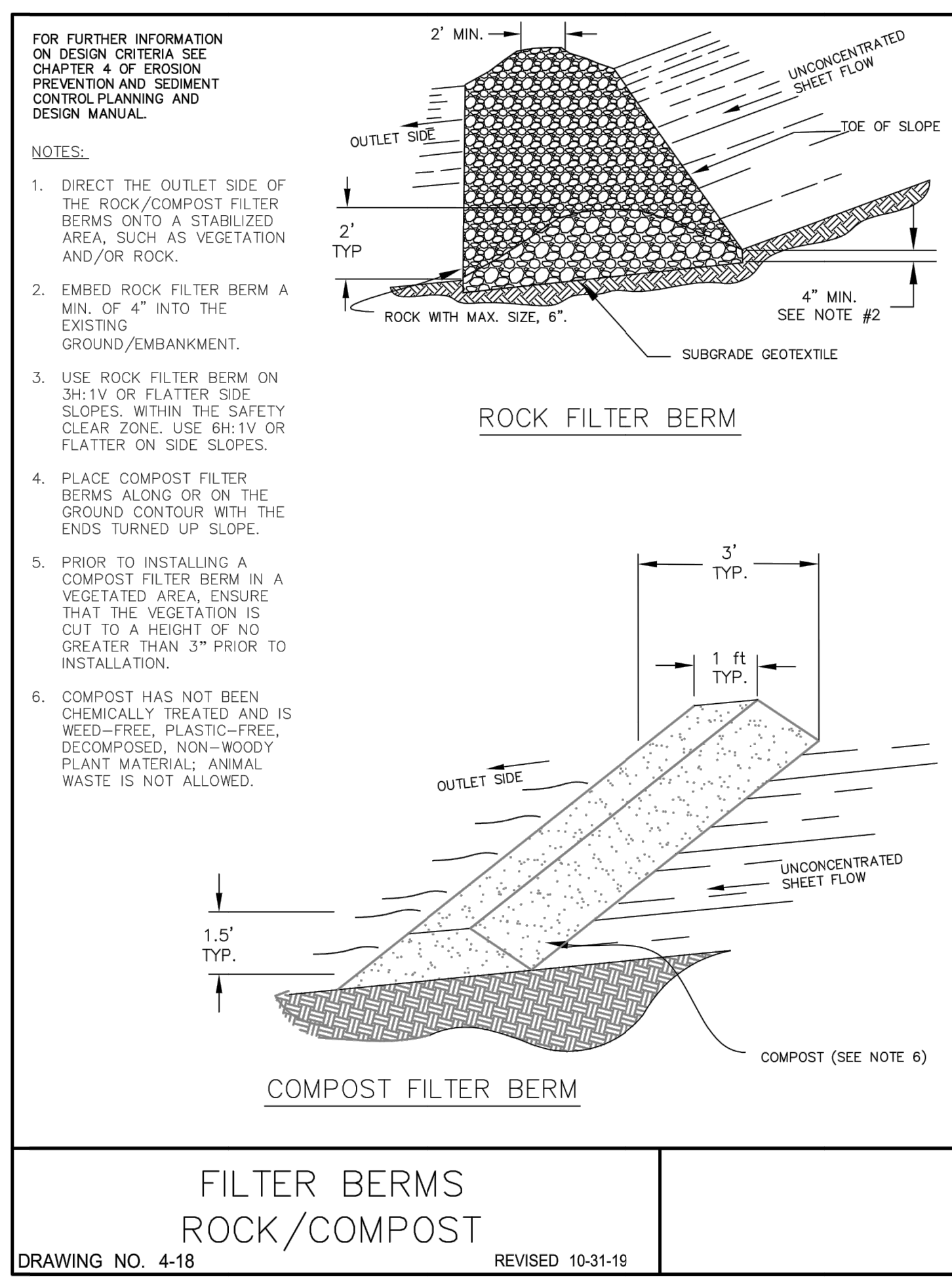
- EXCAVATION/TRENCHING AROUND TREES:**
- PROPOSED TRENCHING AND EXCAVATION IN CLOSE PROXIMITY TO TREE PROTECTION ZONES MAY REQUIRE COORDINATION WITH A CERTIFIED ARBORIST. IF MAIN LATERAL OR TAP ROOTS OR ARE FOUND, STOP WORK IN THE AREA IMMEDIATELY AND CONSULT A CERTIFIED ARBORIST
  - WHERE TRENCHING IS REQUIRED WITHIN CRITICAL ROOT ZONE, AND HAS BEEN REVIEWED AND APPROVED BY A CERTIFIED ARBORIST, TUNNEL UNDER OR AROUND ROOTS BY HAND DIGGING OR BORING. DO NOT CUT MAIN LATERAL ROOTS OR TAP ROOTS. CLEANLY CUT/SEVER SMALLER ROOTS
  - RELOCATE ROOTS IN BACKFILL AREAS WHEREVER POSSIBLE. DO NOT ALLOW EXPOSED ROOTS TO DRY OUT BEFORE PERMANENT BACKFILL IS PLACED. PROVIDE TEMPORARY EARTH COVER OR PACK WITH PEAT MOSS AND WRAP WITH BURLAP. WATER AND MAINTAIN IN MOIST CONDITION UNTIL RELOCATED AND COVERED WITH BACKFILL
- FENCING NOTES:**
- TEMPORARY FENCE SHALL BE 6' IN HEIGHT AND SET AS SHOWN ON PLANS
  - SIGNAGE DESIGNATING THE PROTECTION ZONE AND PENALTIES FOR VIOLATIONS SHALL BE SECURED IN A PROMINENT LOCATION ON EACH PROTECTION FENCE
  - THE AUTHORITY HAVING JURISDICTION SHALL APPROVE THE INSTALLED TREE PROTECTION FENCING PRIOR TO DEMOLITION OR CONSTRUCTION ACTIVITIES
  - FENCE MATERIALS SHALL CONSIST OF METAL CHAIN LINK SECURED WITH 8" METAL POSTS
  - MOVEMENT OR REMOVAL OF FENCING REQUIRES APPROVAL BY THE AUTHORITY HAVING JURISDICTION



**5 STOCKPILE COVER/SHEETING**  
C4.60 N.T.S.



**7 COMPOST BERM AND SEDIMENT FENCE**  
C4.60 N.T.S.



**FILTER BERMS  
ROCK/COMPOST**  
DRAWING NO. 4-18 REVISED 10-31-18

- FOR FURTHER INFORMATION ON DESIGN CRITERIA SEE CHAPTER 4 OF EROSION PREVENTION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL.**
- NOTES:**
- DIRECT THE OUTLET SIDE OF THE ROCK/COMPOST FILTER BERMS ONTO A STABILIZED AREA, SUCH AS VEGETATION AND/OR ROCK
  - EMBED ROCK FILTER BERM A MIN. OF 4" INTO THE EXISTING GROUND/EMBANKMENT
  - USE ROCK FILTER BERM ON 3H:1V OR FLATTER SIDE SLOPES. WITHIN THE SAFETY CLEAR ZONE, USE 6H:1V OR FLATTER ON SIDE SLOPES
  - PLACE COMPOST FILTER BERMS ALONG OR ON THE GROUND CONTOUR WITH THE ENDS TURNED UP SLOPE
  - PRIOR TO INSTALLING A COMPOST FILTER BERM IN A VEGETATED AREA, ENSURE THAT THE VEGETATION IS CUT TO A HEIGHT OF NO GREATER THAN 3" PRIOR TO INSTALLATION
  - COMPOST HAS NOT BEEN CHEMICALLY TREATED AND IS WEED-FREE, PLASTIC-FREE, DECOMPOSED, NON-WOODY PLANT MATERIAL. ANIMAL WASTE IS NOT ALLOWED.



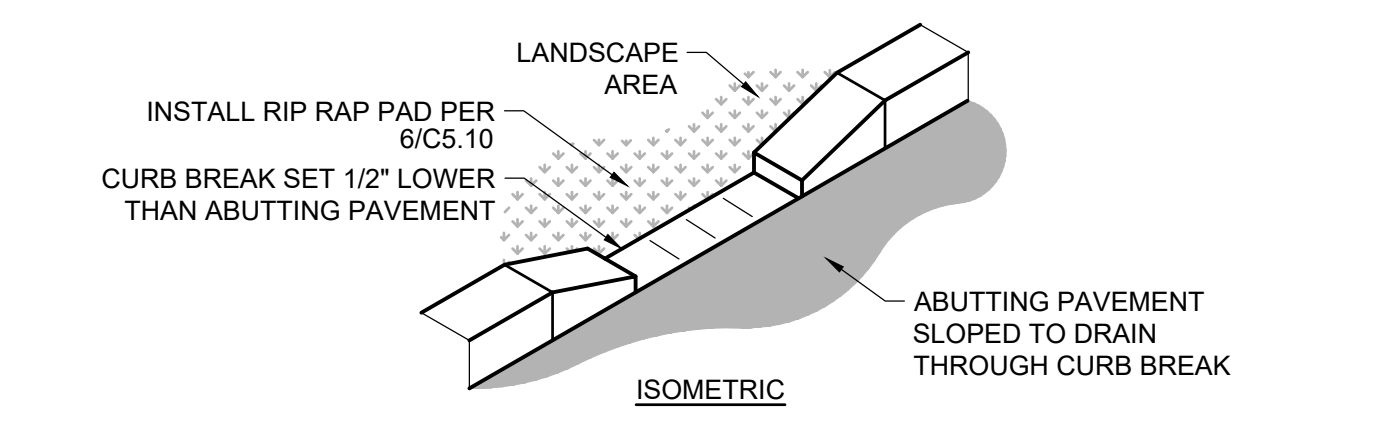
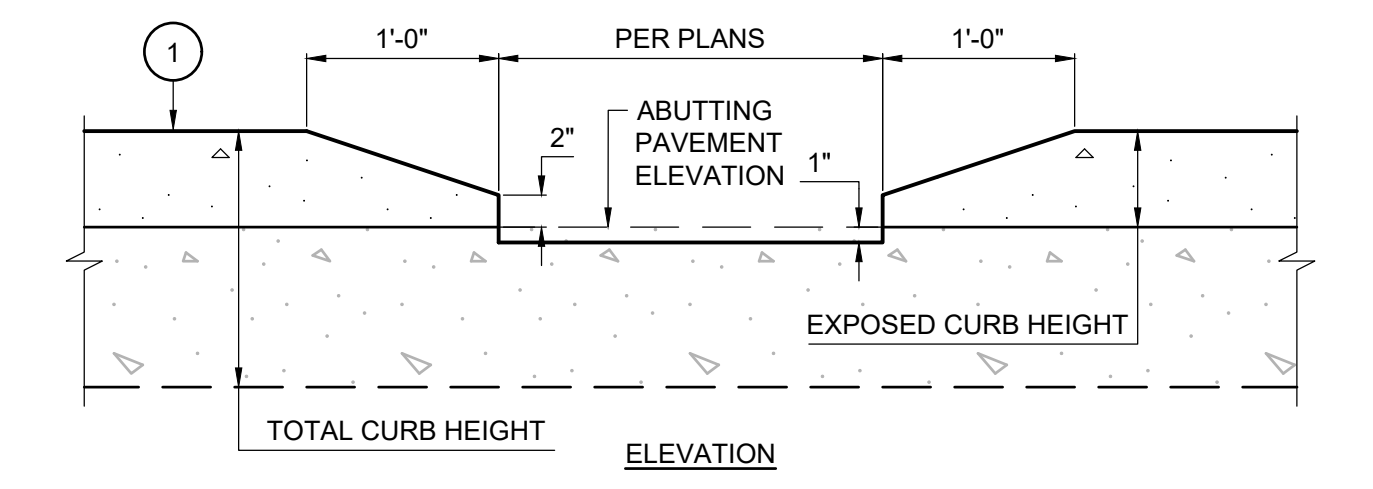
REVISION SCHEDULE		
Delta	Issued As	Issue Date

**CIVIL DETAILS**

SHEET

**C5.10**

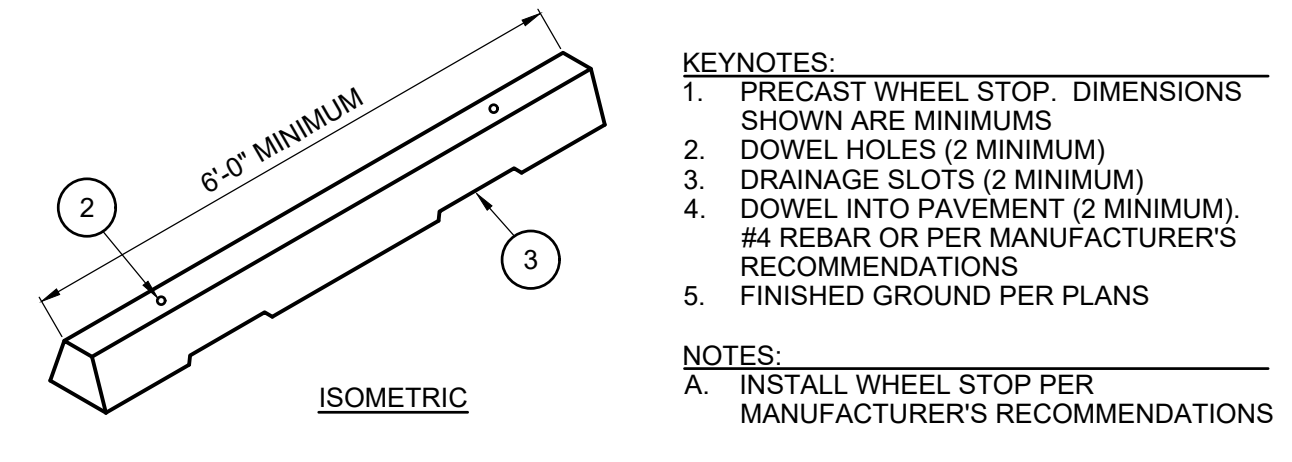
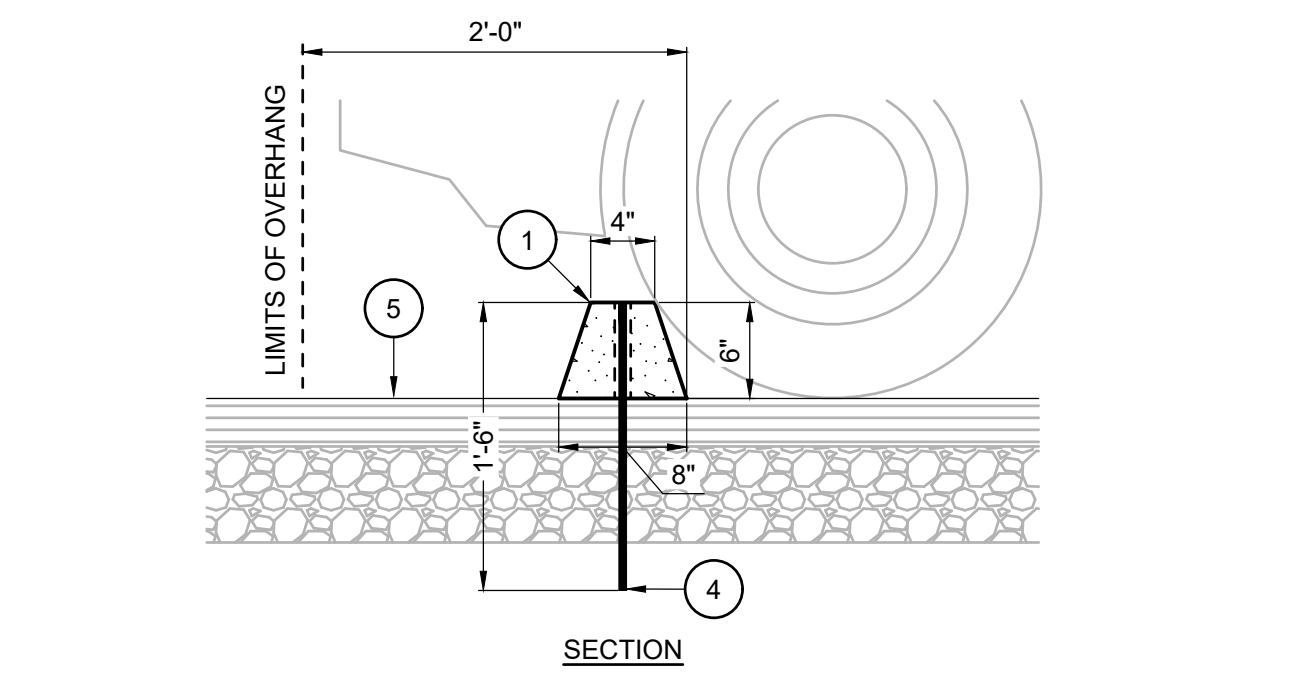
JOB NO. **2200502.00**



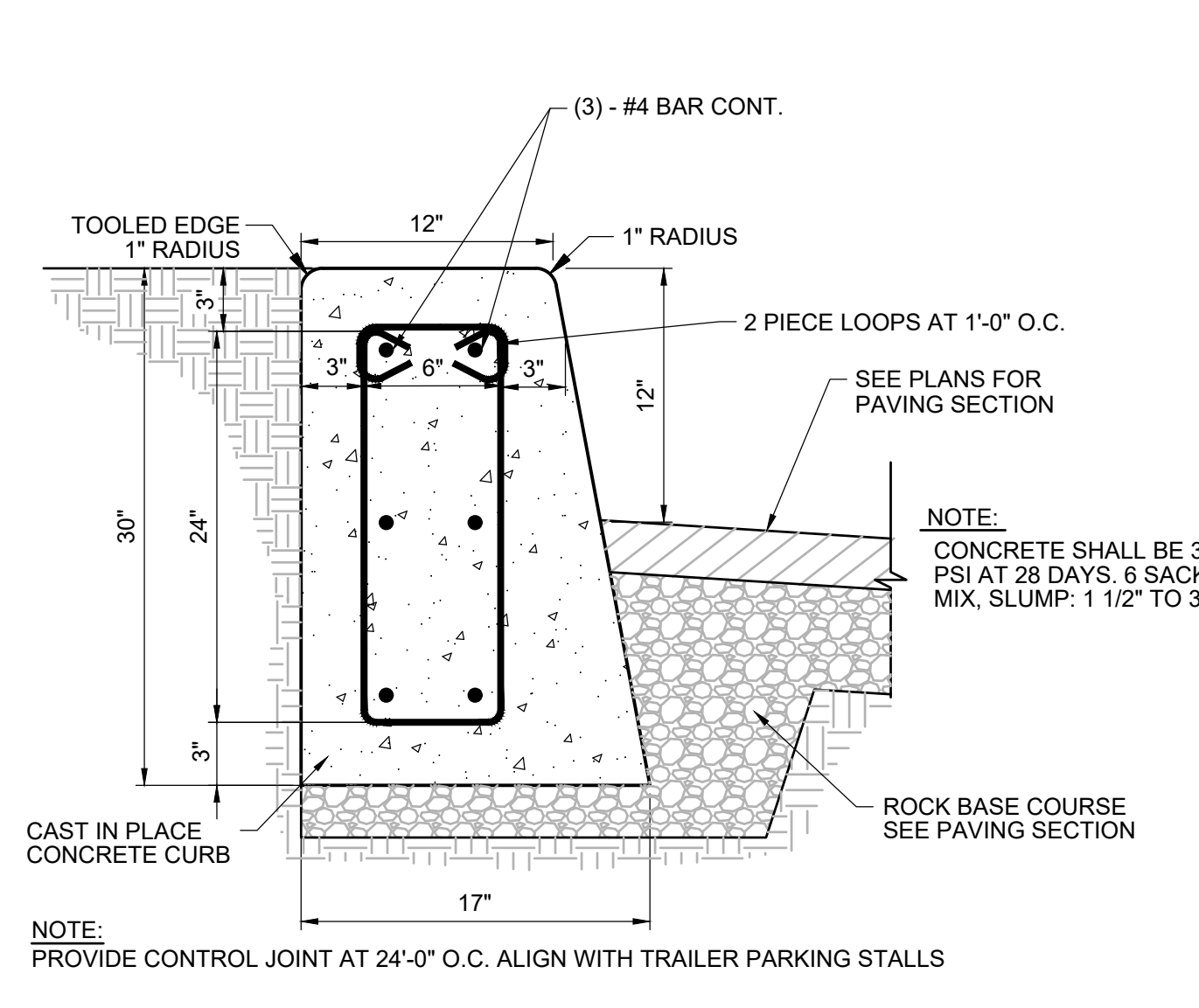
**KEYNOTES:**  
 1. CONCRETE CURB PER 1/C5.10, CONCRETE FOR CURBING PER PROJECT SPECIFICATIONS

**NOTES:**  
 A. IF CURBING IS REINFORCED, BEND REINFORCEMENT TO PASS UNDER CURB BREAK WHILE MAINTAINING 3" COVER ON REBAR

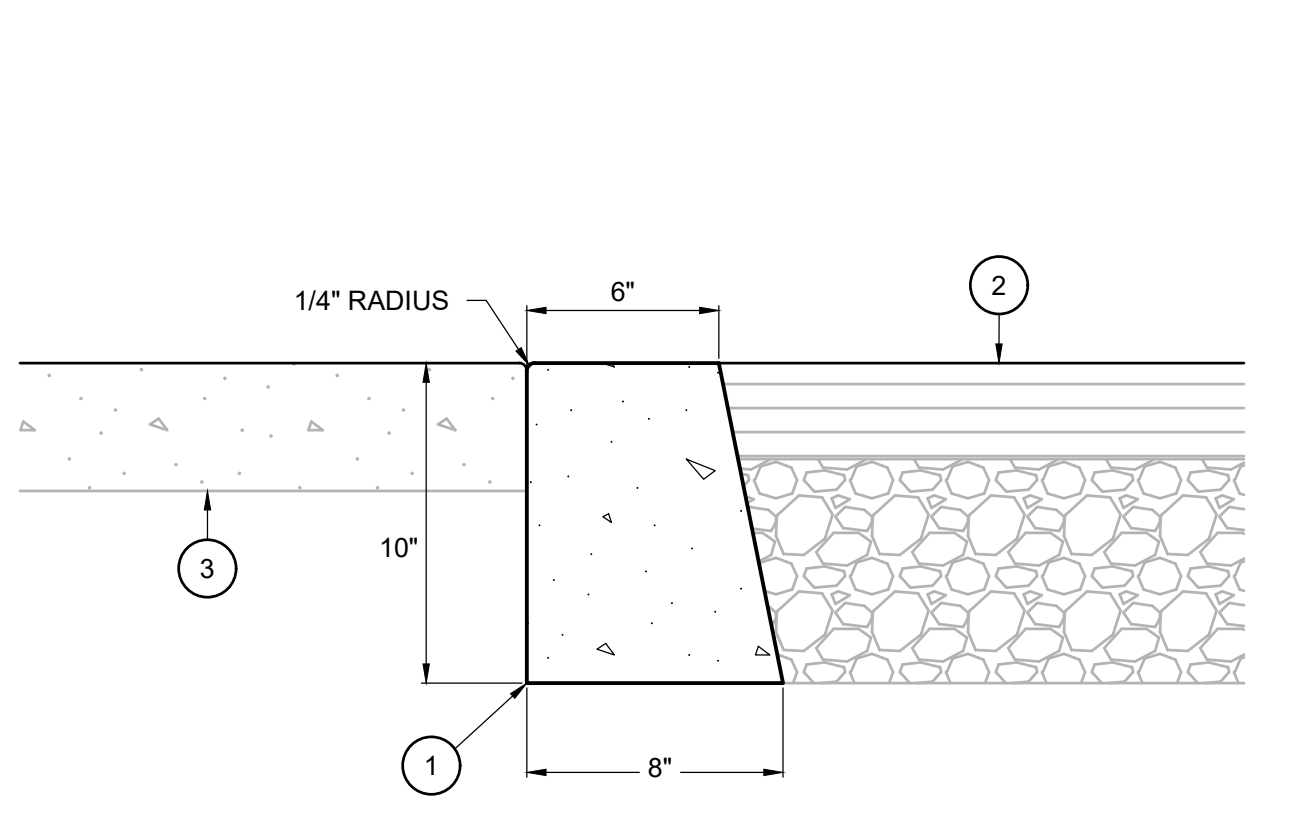
**5 CURB BREAK** N.T.S.



**4 PRECAST WHEEL STOP** N.T.S.

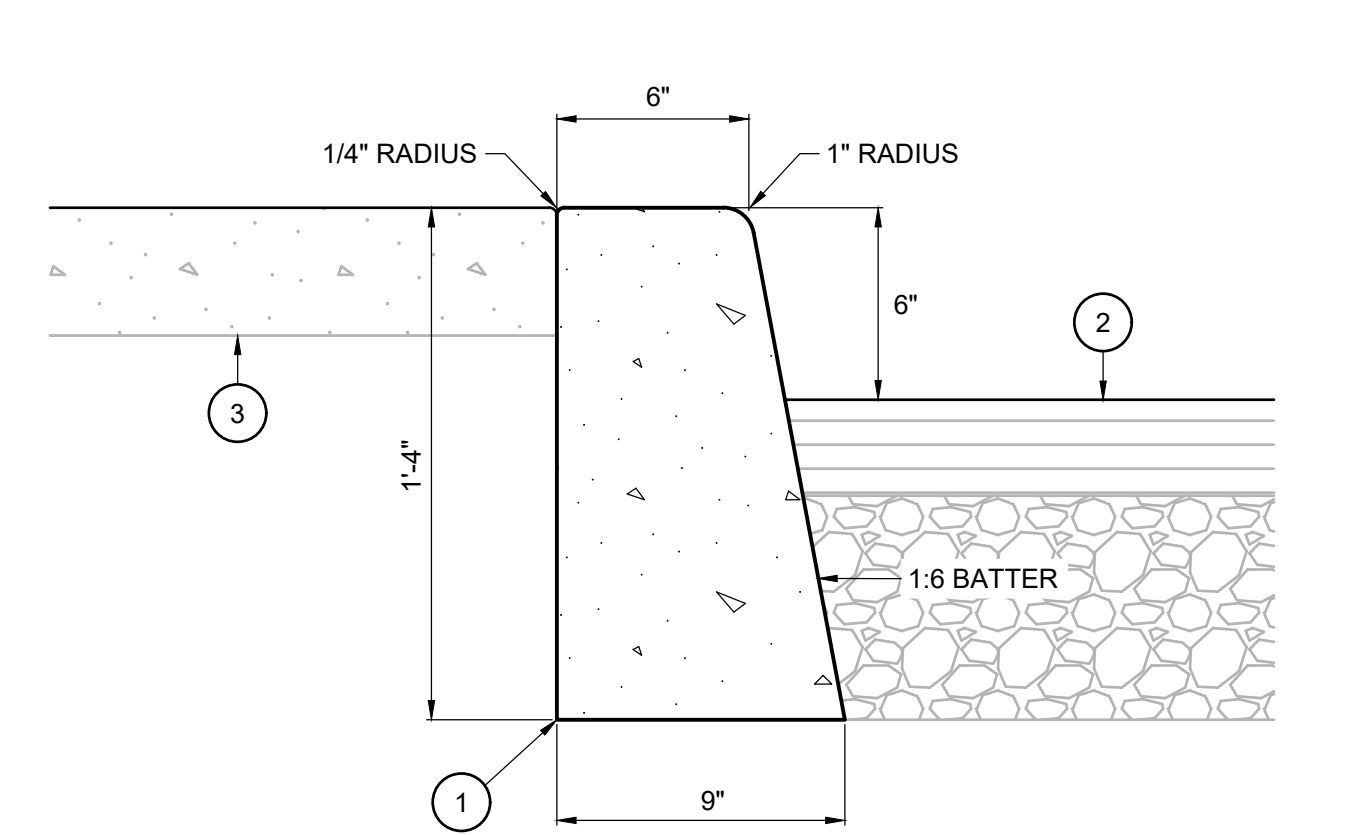


**3 12" X 30" REINFORCED CURB** N.T.S.



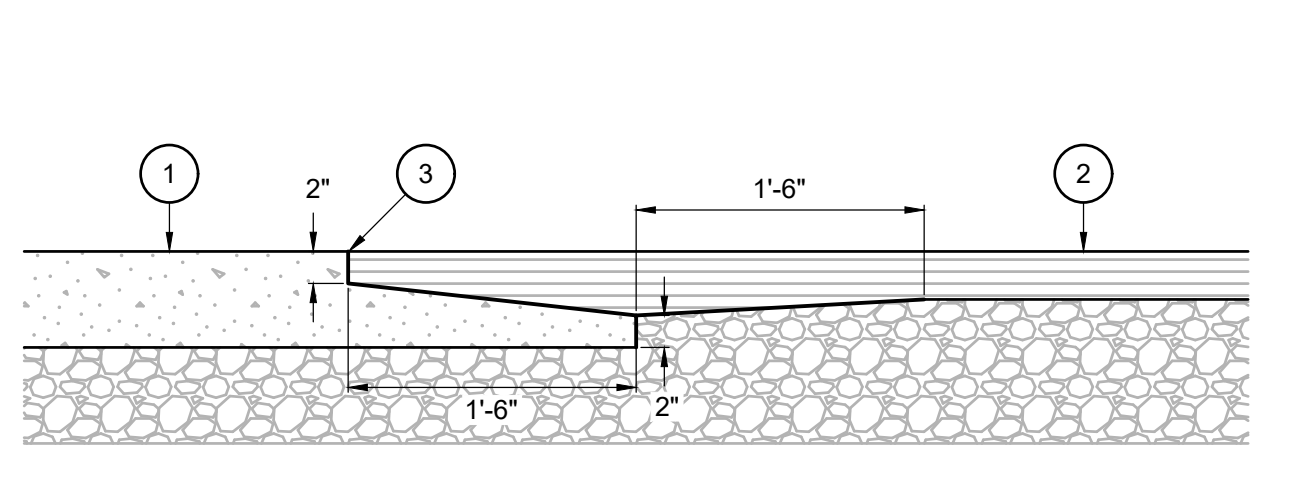
**KEYNOTES:**  
 1. CONCRETE FOR CURBING PER PROJECT SPECIFICATIONS  
 2. PAVEMENT SECTION PER PLANS  
 3. SEE PLANS FOR IMPROVEMENTS AT BACK OF CURB. WHERE SIDEWALK OCCURS, THE SIDEWALK AND TOP OF CURB SHALL BE FLUSH. WHERE ABUTTING A PLANTER AREA, THE FINAL GRADE SHALL BE 1" MINIMUM BELOW TOP OF CURB, OR AS DIRECTED BY THE LANDSCAPE ARCHITECT

**2 FLUSH CURB** N.T.S.



**KEYNOTES:**  
 1. CONCRETE FOR CURBING PER PROJECT SPECIFICATIONS  
 2. PAVEMENT SECTION PER CIVIL PLANS  
 3. SEE PLANS FOR IMPROVEMENTS AT BACK OF CURB. WHERE SIDEWALK OCCURS, THE SIDEWALK AND TOP OF CURB SHALL BE FLUSH. WHERE ABUTTING A PLANTER AREA, THE FINAL GRADE SHALL BE 1" MINIMUM BELOW TOP OF CURB, OR AS DIRECTED BY THE LANDSCAPE ARCHITECT

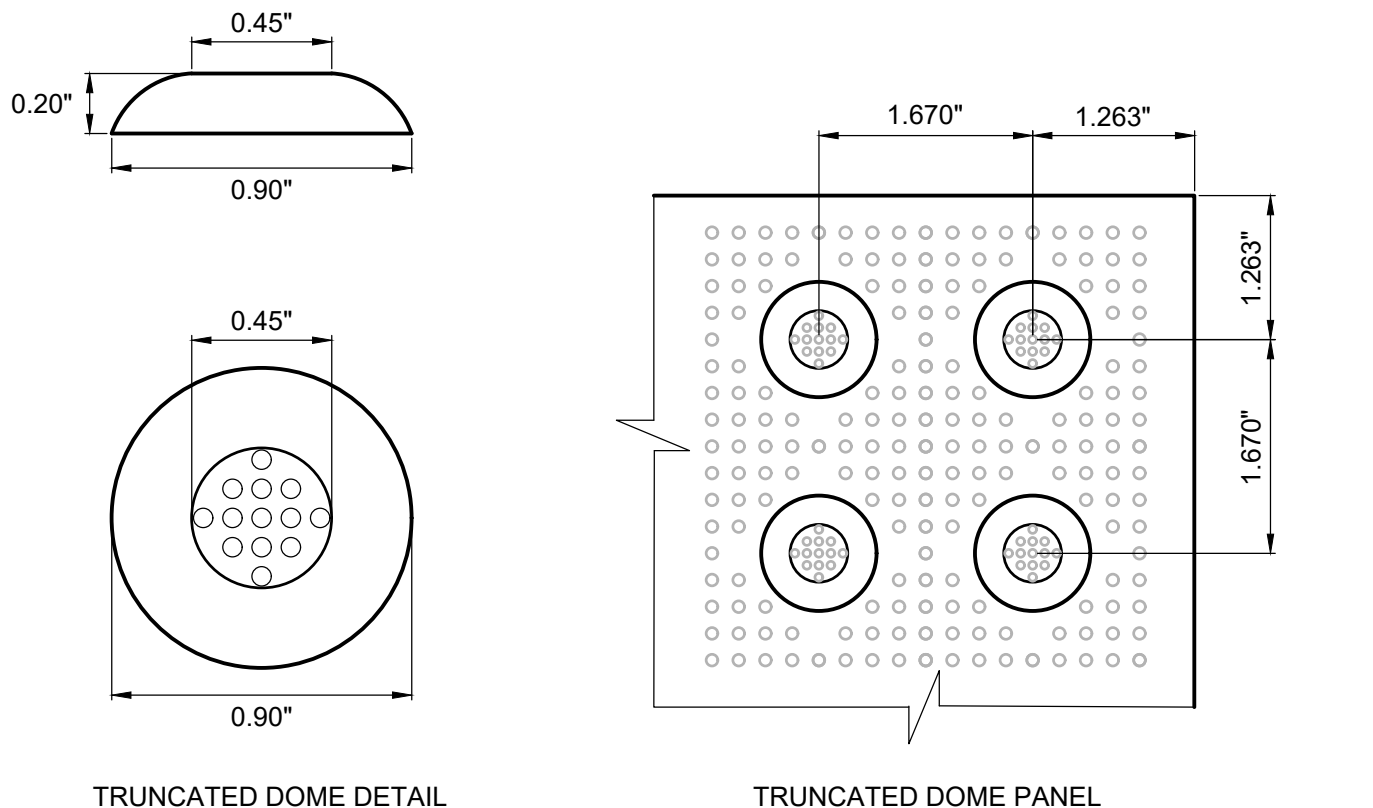
**1 VERTICAL CURB** N.T.S.



**KEYNOTES:**  
 1. CONCRETE PAVEMENT PER PLANS AND PROJECT SPECIFICATIONS  
 2. ASPHALT PAVEMENT AND BASE COURSE PER PLANS AND PROJECT SPECIFICATIONS  
 3. PROVIDE 3/8" TOOLED EDGE RADIUS ON CONCRETE AND APPLY SEALANT AT JOINT PER PROJECT SPECIFICATIONS

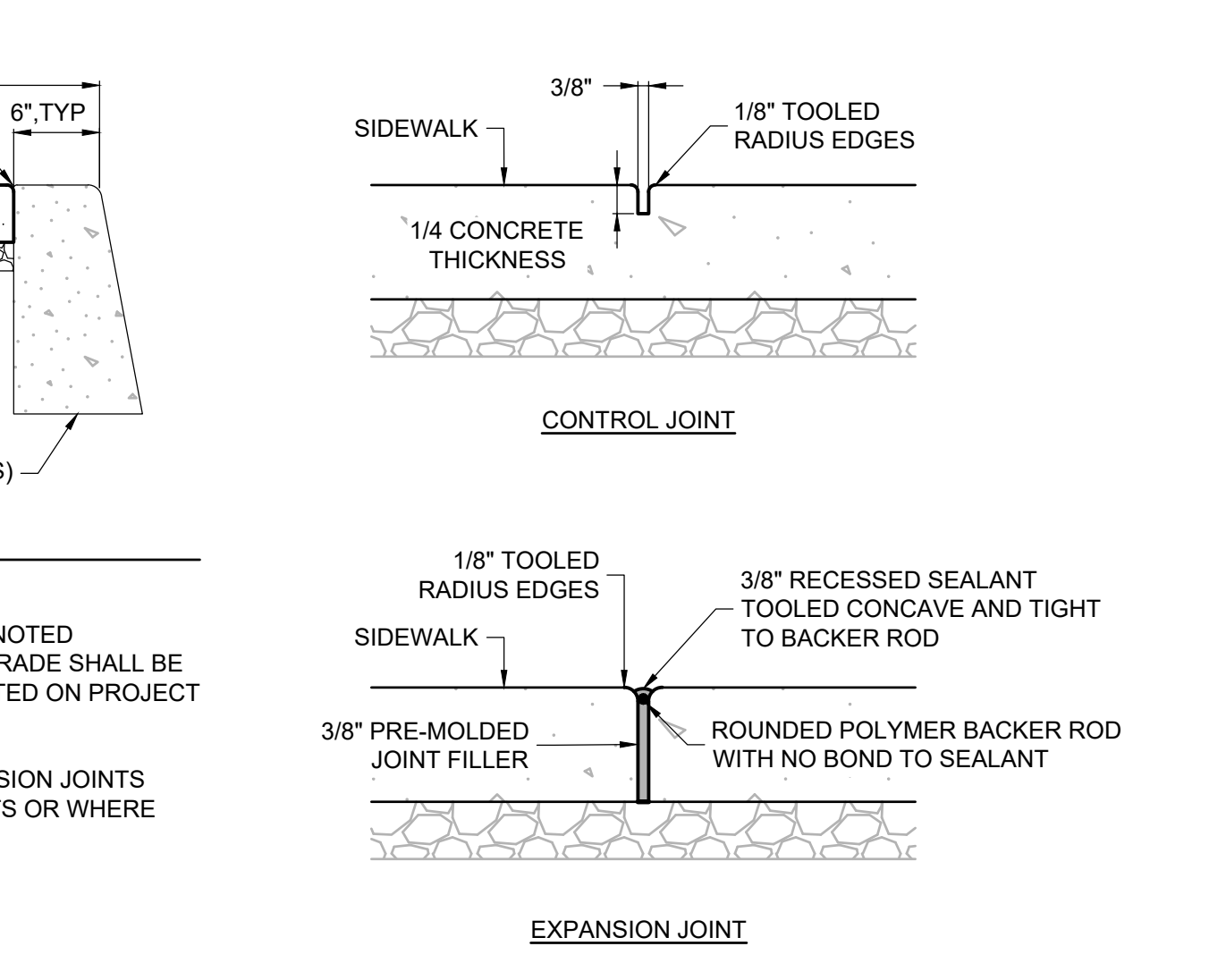
**NOTES:**  
 A. THIS DETAIL IS NOT REQUIRED WHERE SIDEWALKS ABUT ASPHALT PAVEMENT IF PROVISIONS ARE SPECIFIED THAT PREVENT VEHICULAR ACCESS ONTO SIDEWALK

**8 ASPHALT TO CONCRETE TRANSITION** N.T.S.

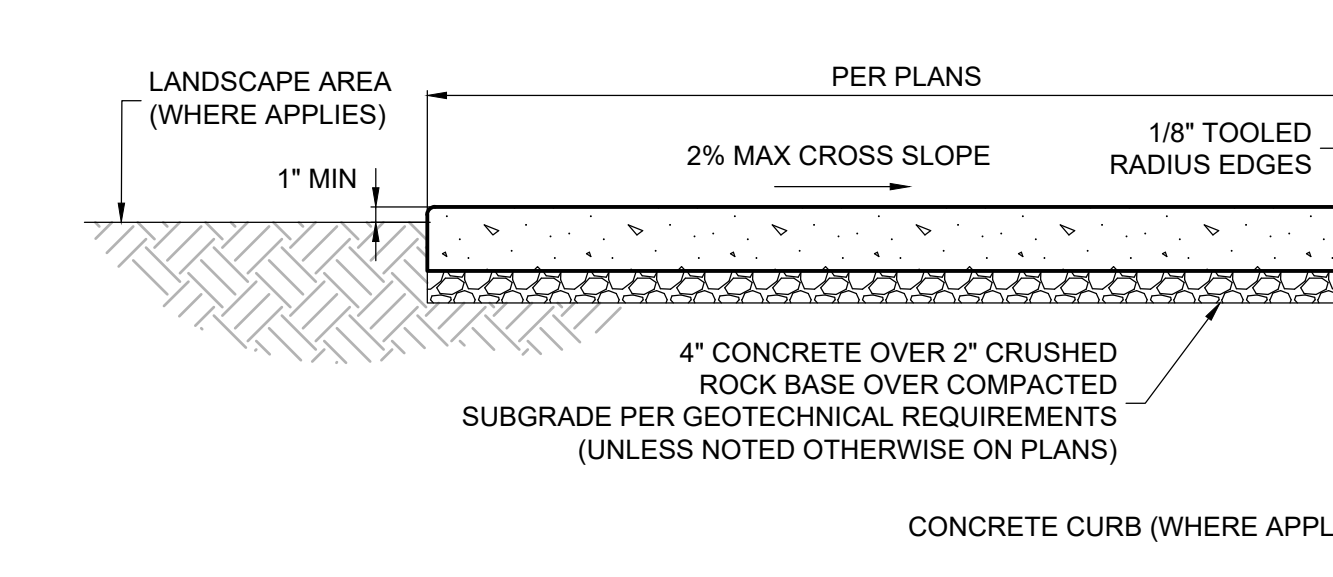


**NOTES:**  
 A. PLACE TRUNCATED DOME DETECTABLE WARNING TEXTURE (OR CAST-IN-PLACE PANELS) IN THE LOWER 24" FOR THE FULL WIDTH OF THE RAMP  
 B. ARRANGE DOMES USING AN INLINE PATTERN AS SHOWN IN THE DETAIL ABOVE  
 C. COLOR OF DOME TEXTURE (OR PANELS) TO BE SAFETY YELLOW, UNLESS NOTED OTHERWISE ON PLANS  
 D. SURFACE APPLIED PANELS SHALL ONLY BE ALLOWED IN RETROFIT CONDITIONS AND WITH THE PRIOR APPROVAL OF THE ENGINEER

**9 TRUNCATED DOMES** N.T.S.

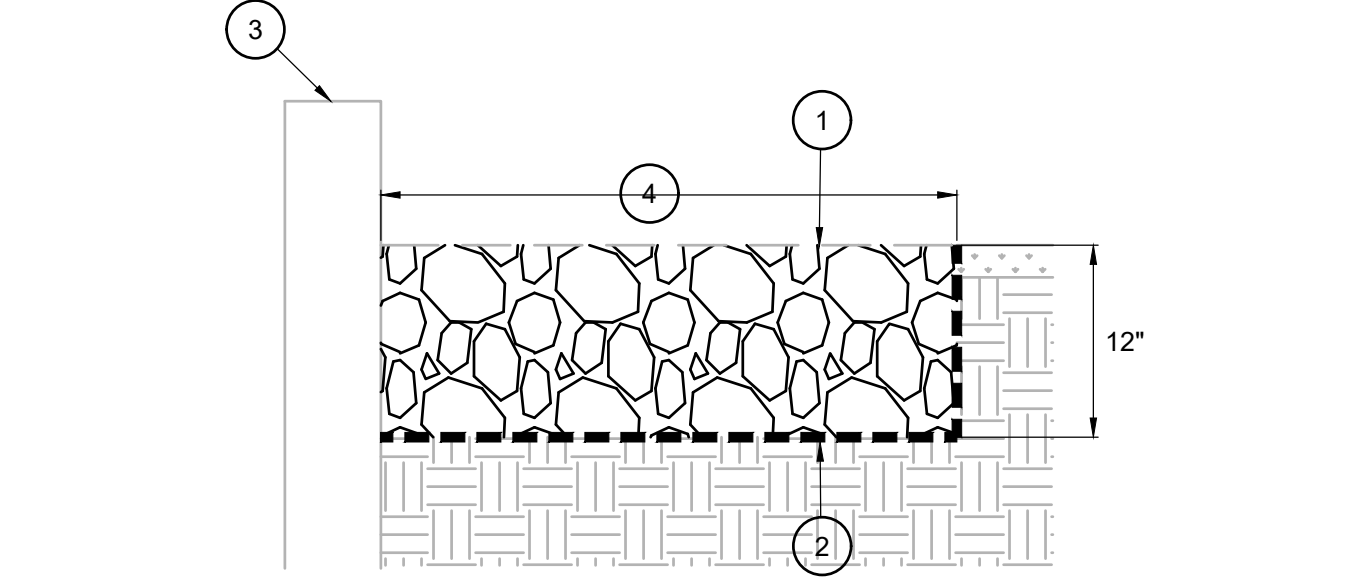


**CONTROL JOINT**  
**EXPANSION JOINT**



**NOTES:**  
 A. CONCRETE SIDEWALK SHALL BE BROOM FINISHED UNLESS OTHERWISE NOTED ON PLANS  
 B. SEE PROJECT SPECIFICATIONS FOR CONCRETE, AGGREGATE BASE, AND JOINT MATERIALS  
 C. WHERE SIDEWALK ABUTS CURBING, SURFACE SHALL BE FLUSH WITH TOP OF CURB UNLESS NOTED OTHERWISE ON PLANS. WHERE SIDEWALK ABUTS LANDSCAPE OR OTHER PERVIOUS AREA, GRADE SHALL BE RECESSED 1" MINIMUM OR AS OTHERWISE DICTATED BY THE LANDSCAPE ARCHITECT OR NOTED ON PROJECT PLANS  
 D. DO NOT USE SHINERS ON TOOLED EDGES UNLESS NOTED OTHERWISE  
 E. CONTROL JOINTS SHALL BE EVENLY SPACED AND LOCATED EVERY 5' MAXIMUM, WITH EXPANSION JOINTS EVERY FOURTH JOINT. OR PER PLAN, SIDEWALK JOINTS SHALL BE ALIGNED WITH CURB JOINTS OR WHERE PERPENDICULAR CURBING INTERSECTS.

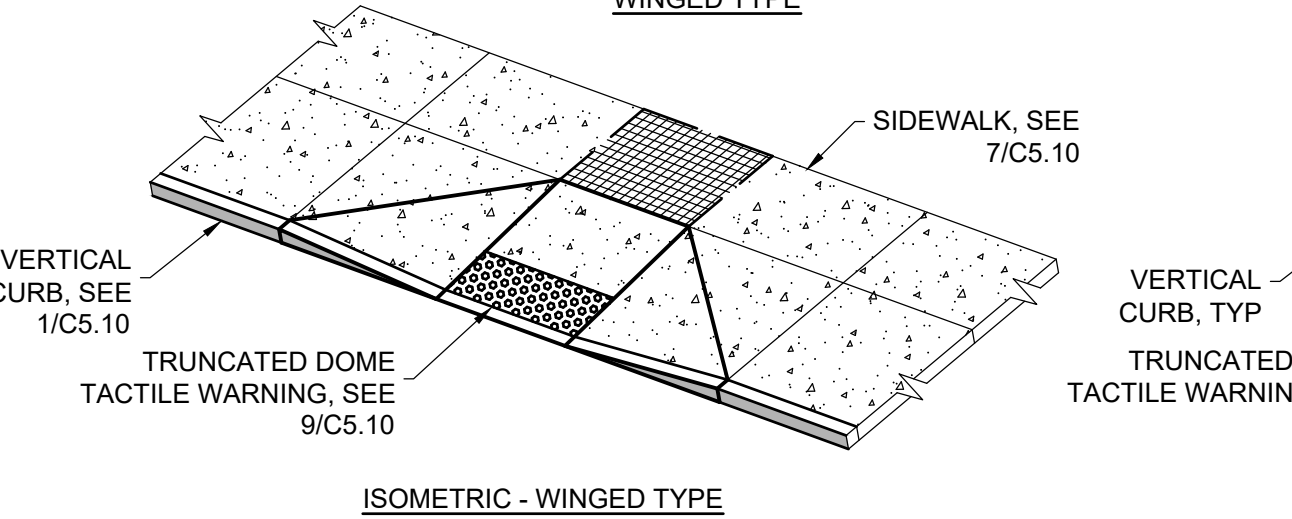
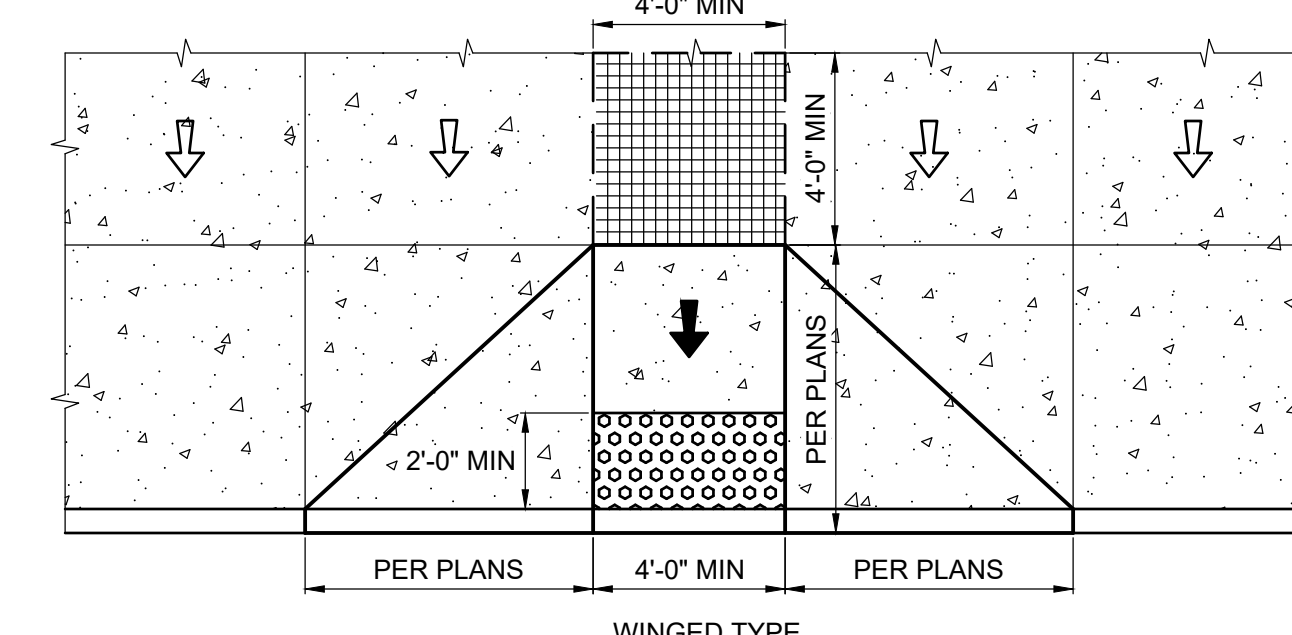
**7 CONCRETE SIDEWALK AND JOINTS** N.T.S.



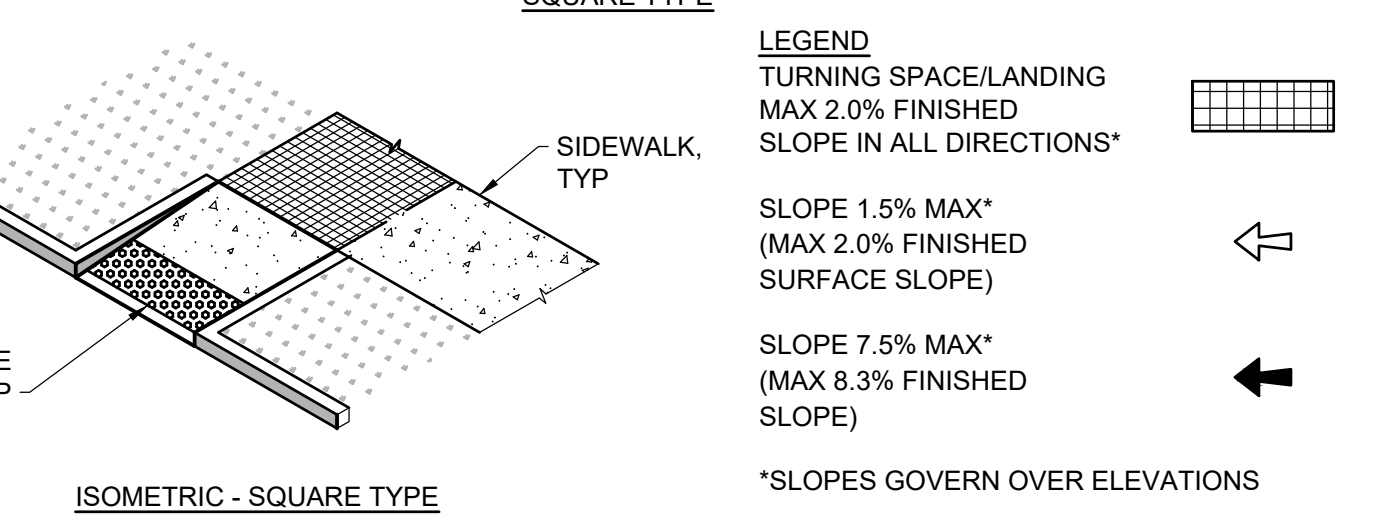
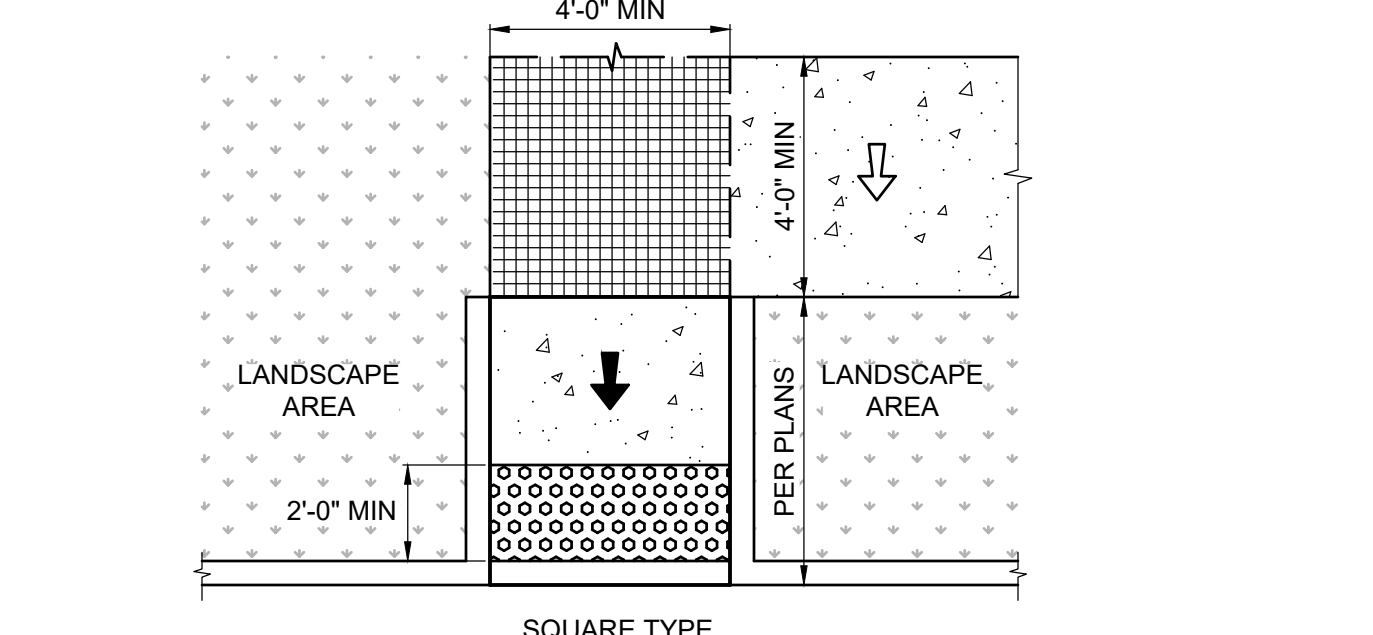
**KEYNOTES:**  
 1. CRUSHED, ANGULAR, 6"-10" DIAMETER ROCK (I.E. ODOT CLASS 50 RIP RAP). TOP OF RIP RAP LAYER TO BE FLUSH WITH ADJACENT GRADE  
 2. WOVEN FILTER FABRIC, ENCASING ALL BUT THE TOP SURFACE OF THE AGGREGATE  
 3. PIPE OUTFALL OR CURB BREAK LOCATION, WIDTH/DIAMETER, AND INVERT PER PLAN. CENTER RIP RAP PAD ON PIPE OUTFALL/CURB BREAK  
 4. RIP RAP PAD DIMENSIONS PER PLAN. IF NONE NOTED, INSTALL TO A MINIMUM WIDTH OF 12" TO EITHER SIDE OF A CURB BREAK OR PIPE OUTFALL AND 48" LONG

**NOTES:**  
 A. ALL FEATURES SHOWN OTHER THAN THE RIP RAP PAD ARE SHOWN FOR REFERENCE ONLY TO PROVIDE CONTEXT OF THE RIP RAP RELATIONSHIP TO ITS SURROUNDINGS. REFER TO THE PLANS FOR PROJECT SPECIFIC RELATIONSHIPS TO OTHER SITEWORK ELEMENTS

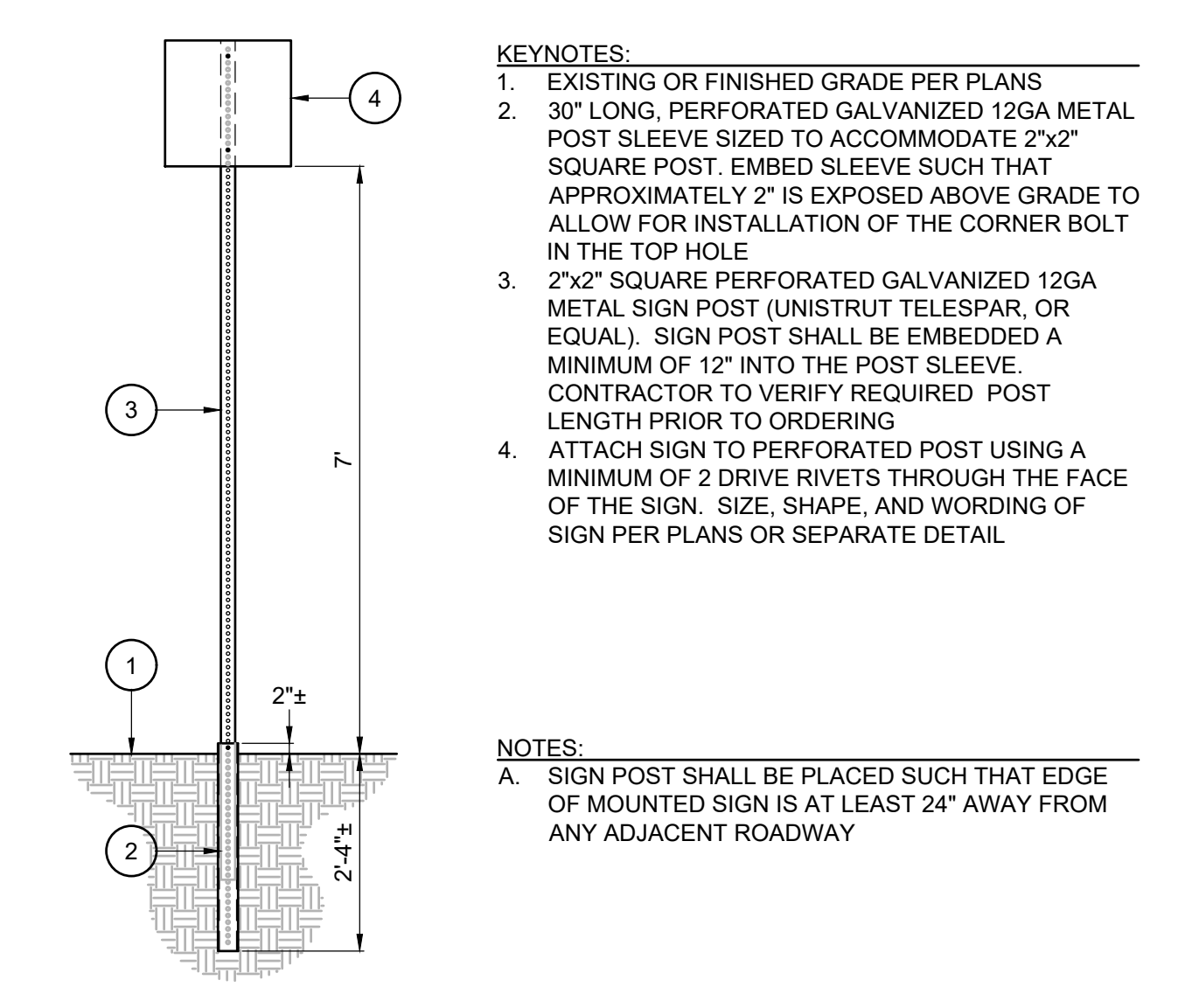
**6 RIP RAP PAD** N.T.S.



**11 SIGN POST** N.T.S.



**12 PERPENDICULAR CURB RAMPS** N.T.S.

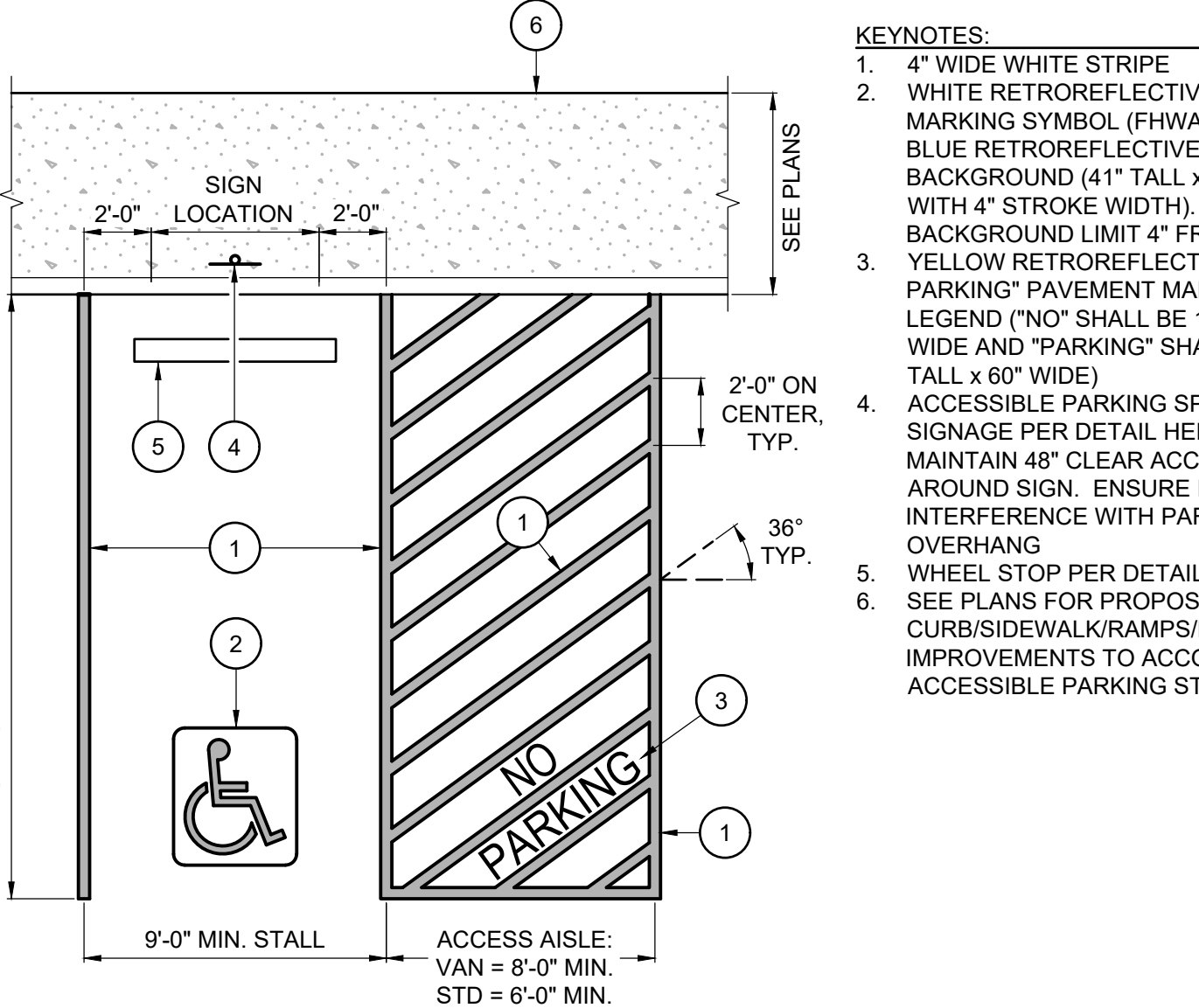


**KEYNOTES:**  
 1. EXISTING OR FINISHED GRADE PER PLANS  
 2. 30" LONG, PERFORATED GALVANIZED 12GA METAL POST SLEEVE SIZED TO ACCOMMODATE 2"x2" SQUARE POST. EMBED SLEEVE SUCH THAT APPROXIMATELY 2" IS EXPOSED ABOVE GRADE TO ALLOW FOR INSTALLATION OF THE CORNER BOLT IN THE TOP HOLE  
 3. 2"x2" SQUARE PERFORATED GALVANIZED 12GA METAL SIGN POST (UNISTRUT TELESPAR, OR EQUAL). SIGN POST SHALL BE EMBEDDED A MINIMUM OF 12" INTO THE POST SLEEVE. CONTRACTOR TO VERIFY REQUIRED POST LENGTH PRIOR TO ORDERING  
 4. ATTACH SIGN TO PERFORATED POST USING A MINIMUM OF 2 DRIVE RIVETS THROUGH THE FACE OF THE SIGN. SIZE, SHAPE, AND WORDING OF SIGN PER PLANS OR SEPARATE DETAIL

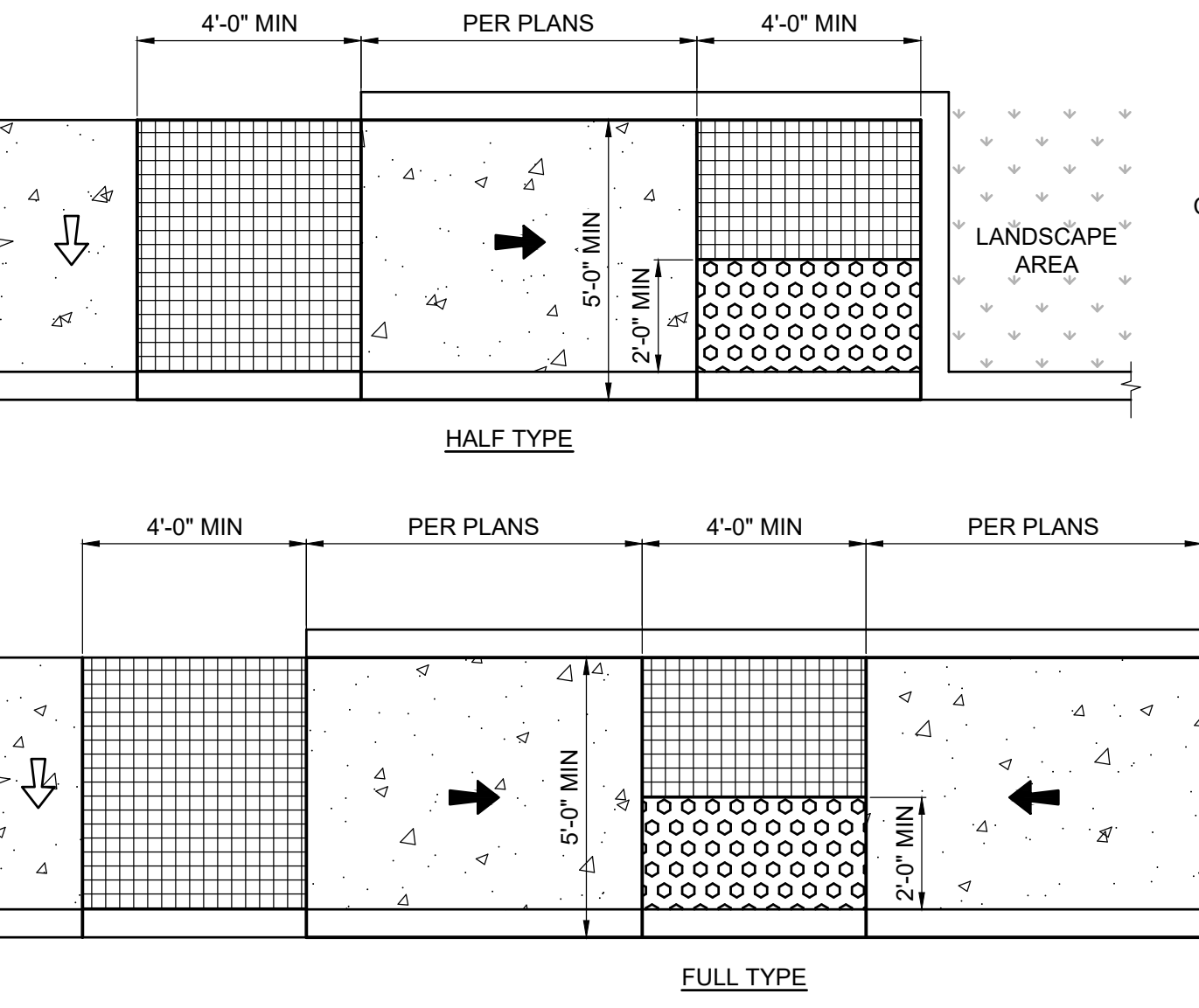
**NOTES:**  
 A. SIGN POST SHALL BE PLACED SUCH THAT EDGE OF MOUNTED SIGN IS AT LEAST 24" AWAY FROM ANY ADJACENT ROADWAY



**14 STOP SIGN** N.T.S.



**10 ACCESSIBLE PARKING STALL** N.T.S.



**13 PARALLEL CURB RAMPS** N.T.S.



REVISION SCHEDULE		
Delta	Issued As	Issue Date
1	PLAN CHECK	06/10/2022

BACKFLOW PREVENTER SHALL BE APPROVED BY THE STATE HEALTH DEPARTMENT AND PLUMBING CODE

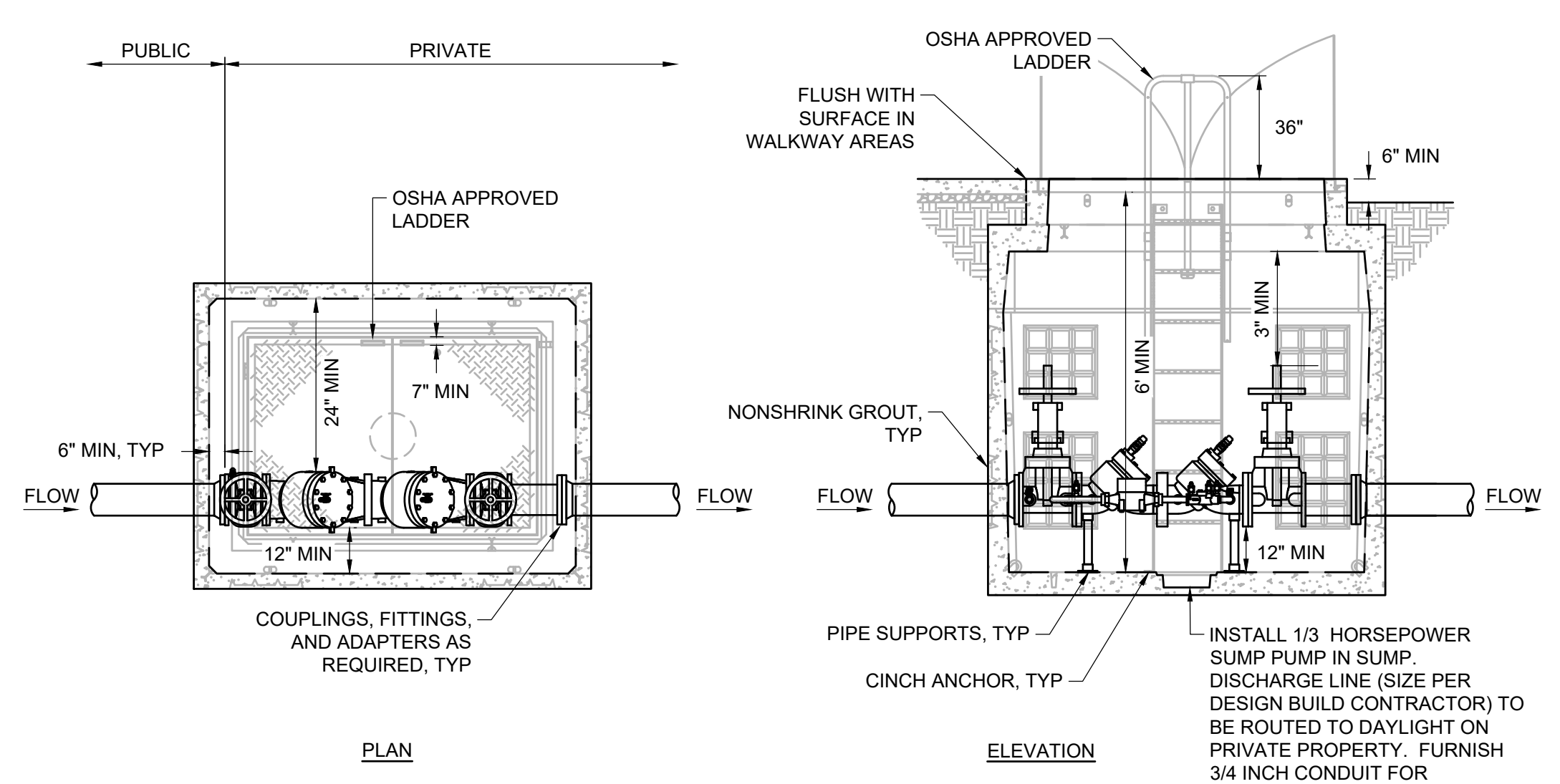
VAULT SHALL BE PRECAST CONCRETE WITH GALVANIZED HINGED ACCESS DOORS (OLDCASTLE, OR EQUAL)

VAULT SHALL BE MECHANICALLY LOCKED AND VALVES SHALL BE PROVIDED WITH ELECTRONIC TAMPER SWITCHES

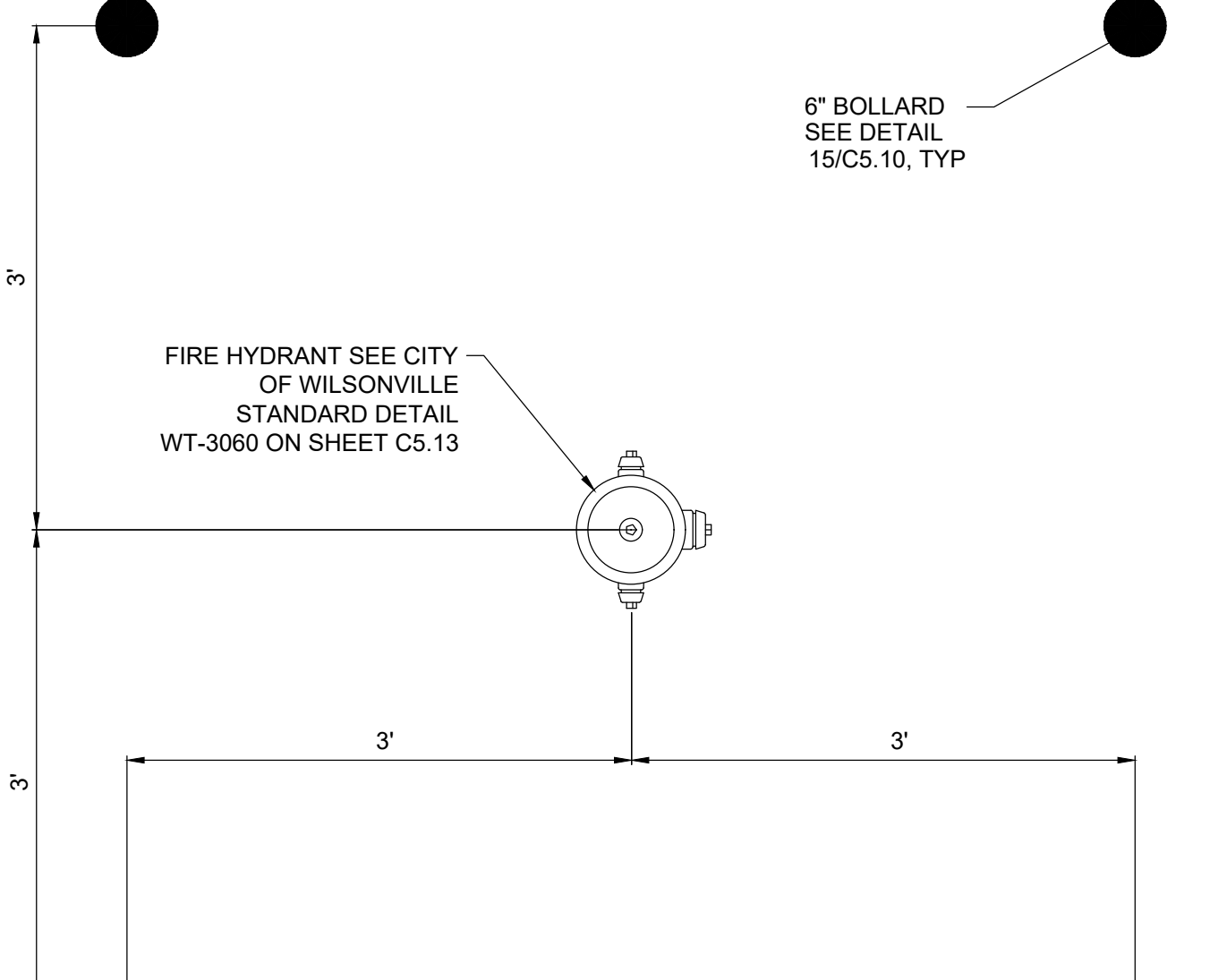
APPROXIMATE VAULT SIZES	
BACKFLOW (DIAMETER)	VAULT (OUTSIDE)
3 INCH	7'-0" (L) 4'-8" (W) 7'-0" (H)
4 INCH	7'-0" (L) 4'-8" (W) 7'-0" (H)
6 INCH	7'-9" (L) 6'-3" (W) 7'-2" (H)
8 INCH	8'-8" (L) 6'-8" (W) 8'-1" (H)
10 INCH	8'-8" (L) 6'-8" (W) 8'-1" (H)

BACKFLOW PREVENTER SHALL BE APPROVED BY THE STATE HEALTH DEPARTMENT AND PLUMBING CODE

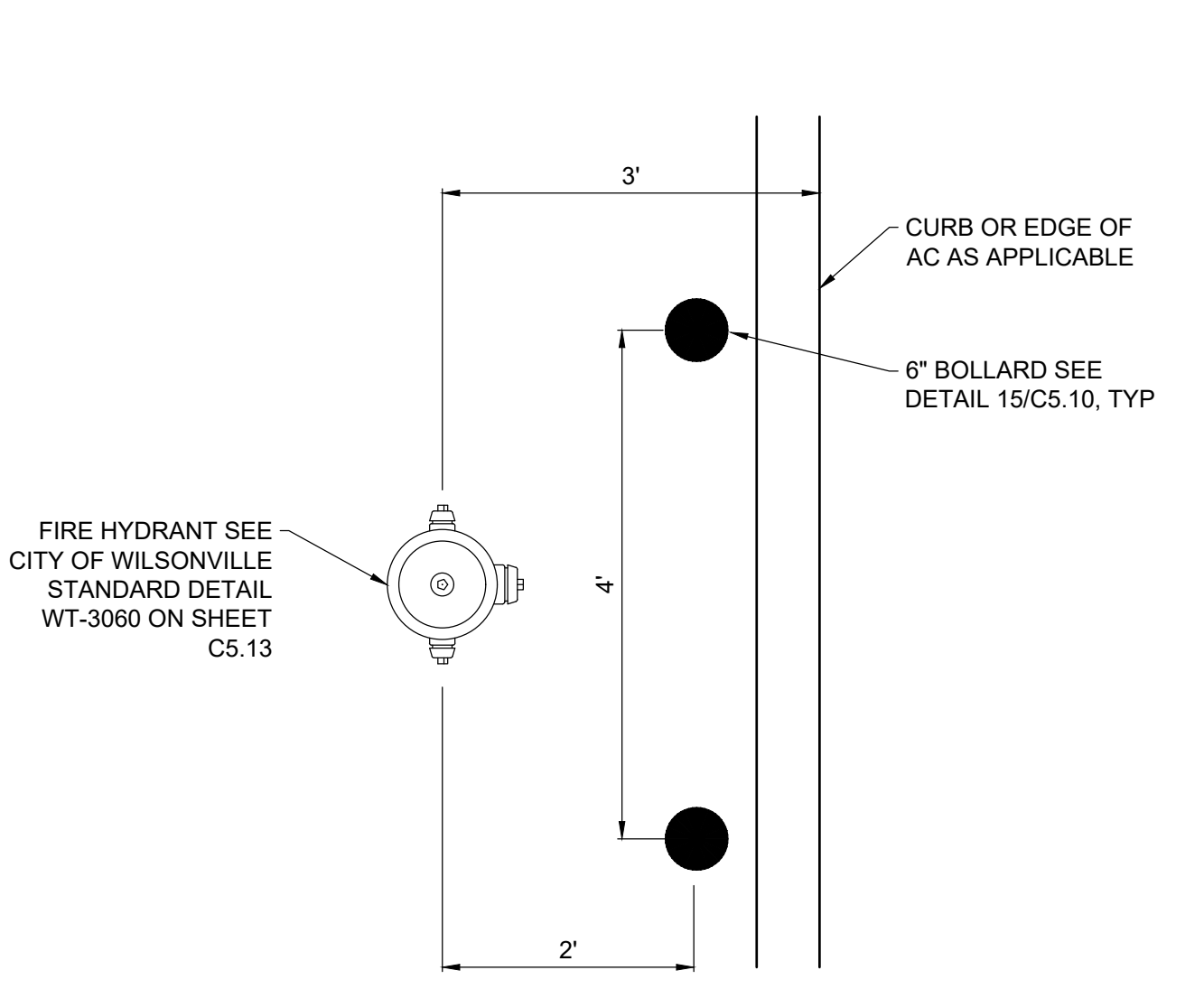
ENCLOSURE SHALL BE WEATHERPROOF, INSULATED, AND HEATED (HOTBOX, OR EQUAL)



**4 DOUBLE CHECK VALVE AND VAULT (3" AND LARGER)**  
C5.11 N.T.S.

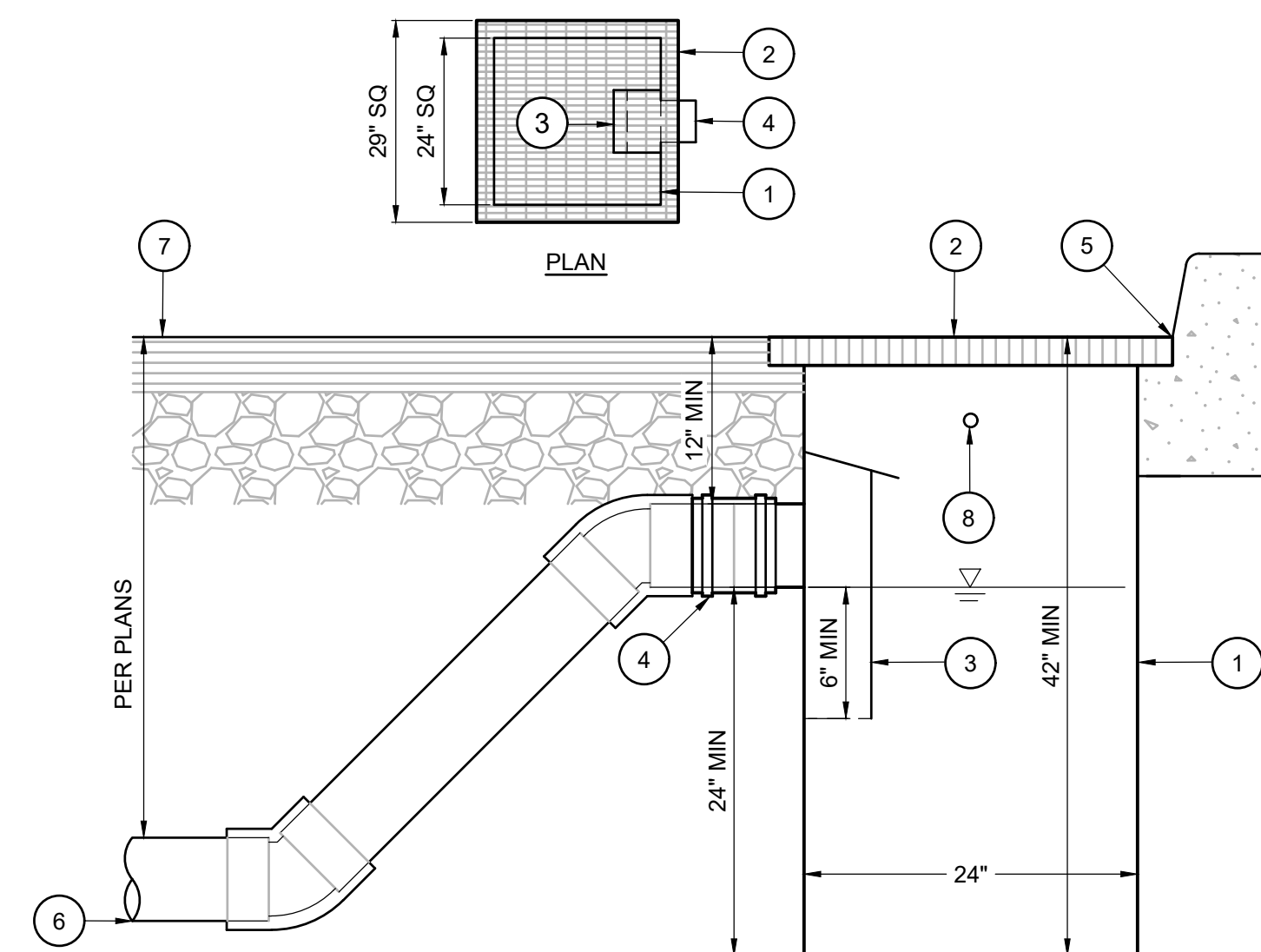


**3 FIRE HYDRANT (4) BOLLARD PROTECTION**  
C5.11 N.T.S.

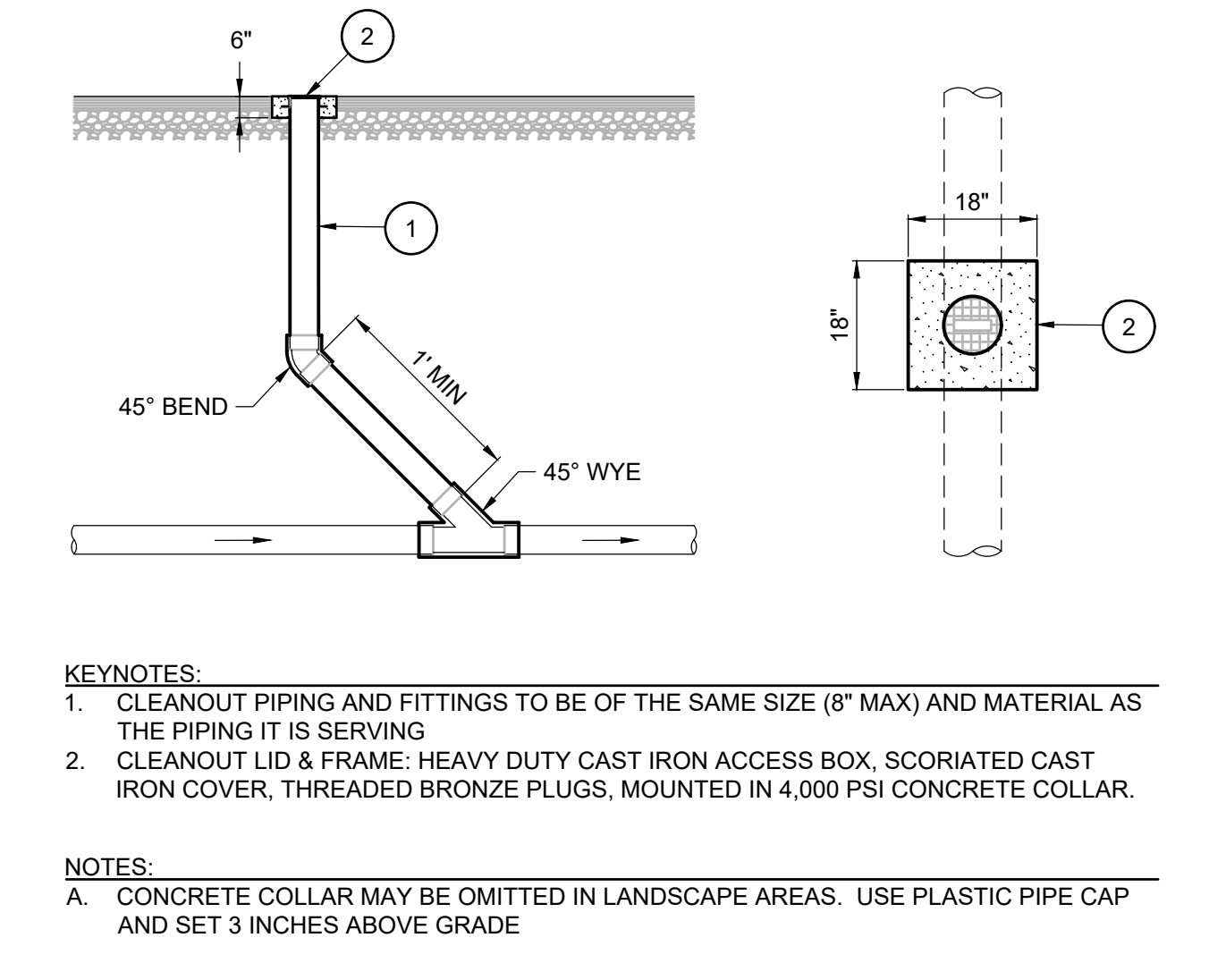


**2 FIRE HYDRANT BOLLARD PROTECTION**  
C5.11 N.T.S.

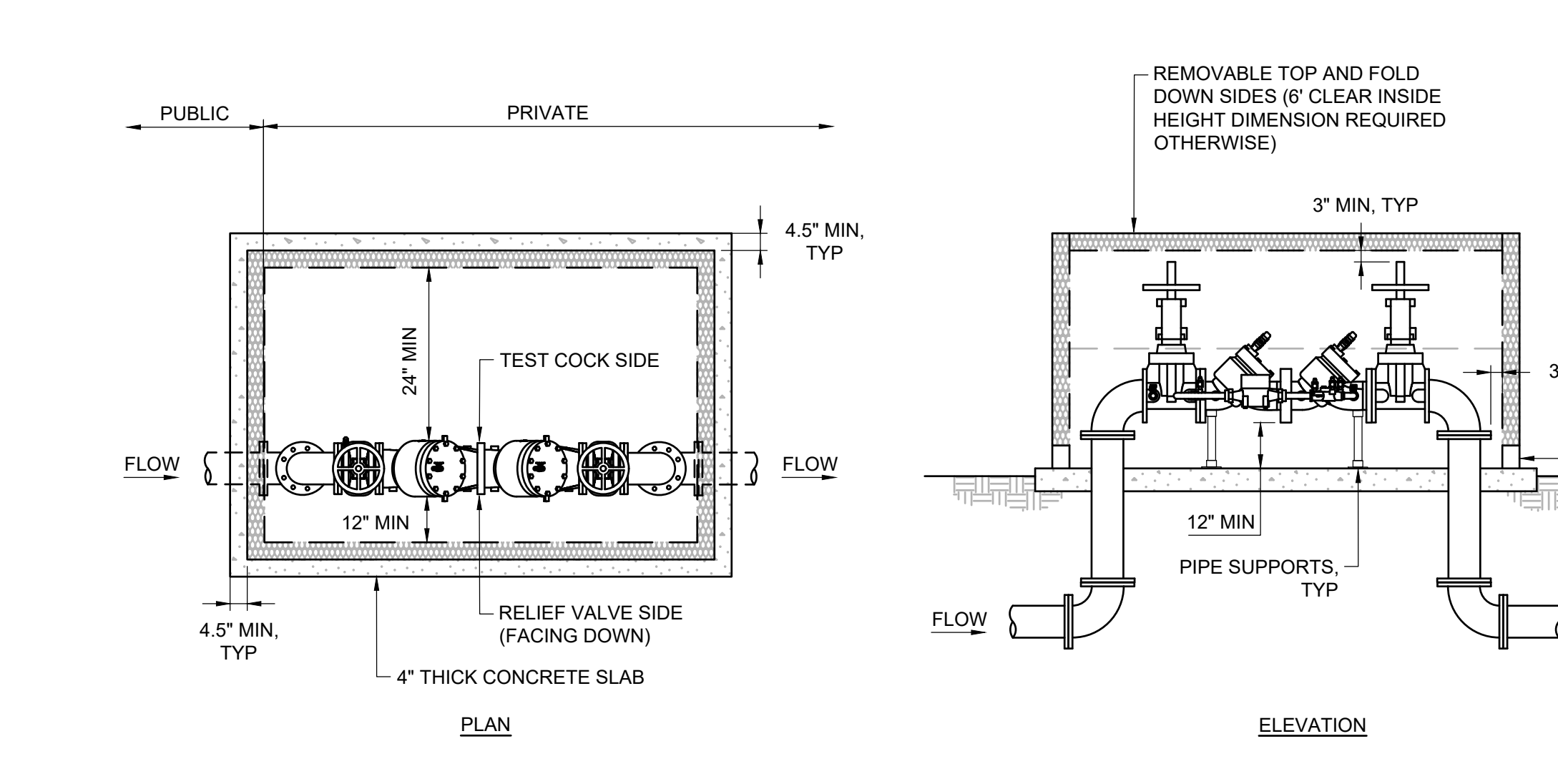
**1 NOT USED**  
C5.11 N.T.S.



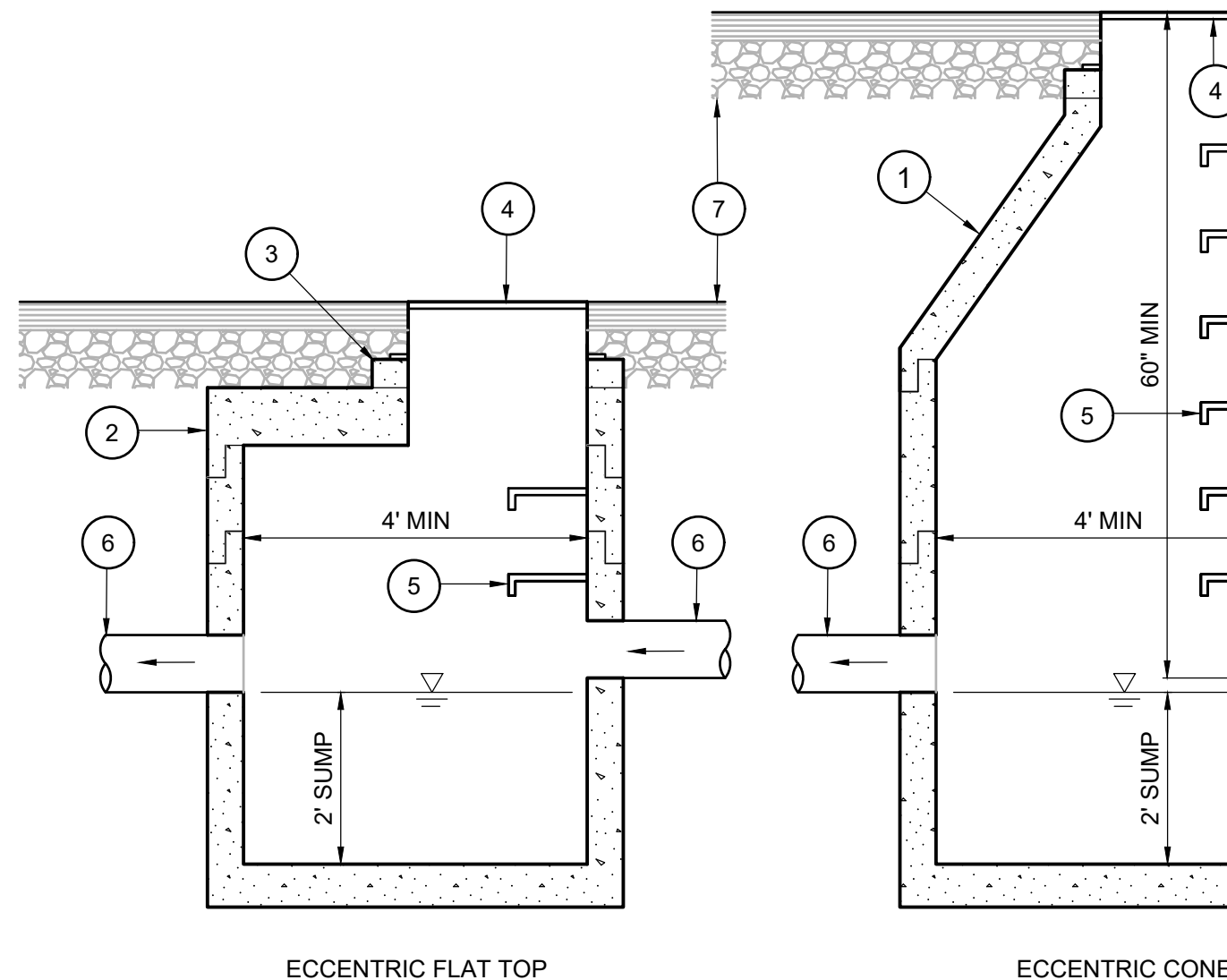
**5 STEEL CATCH BASIN**  
C5.11 N.T.S.



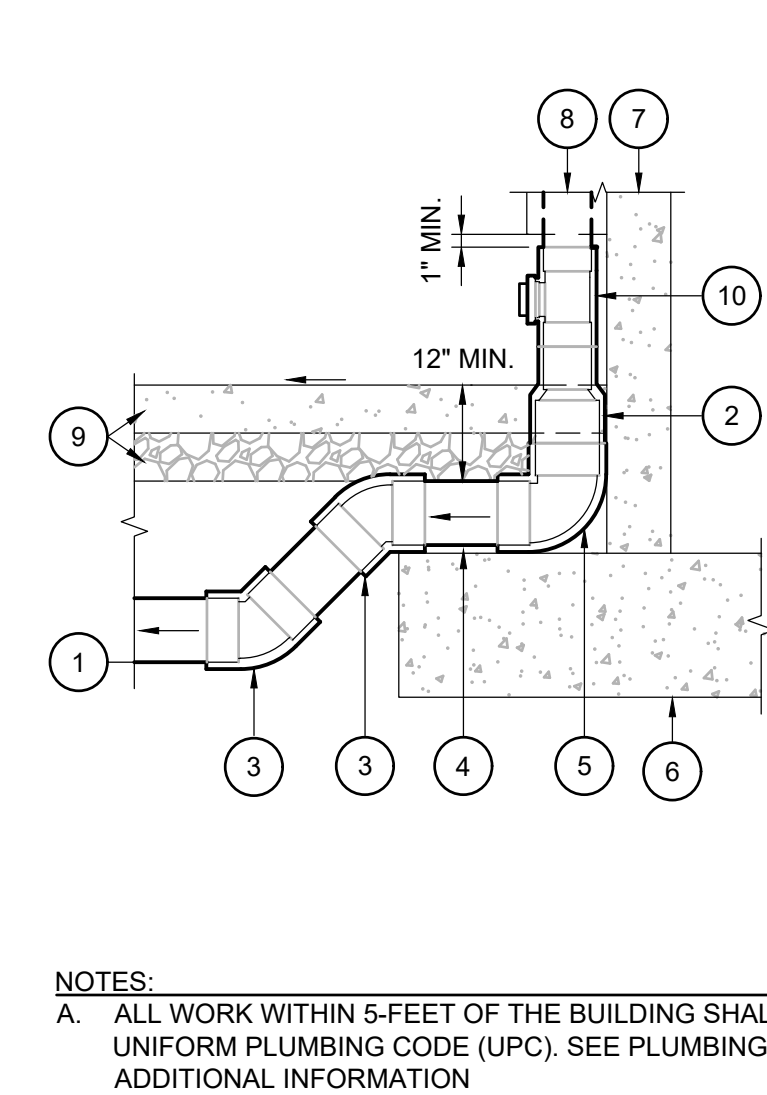
**6 CLEANOUT**  
C5.11 N.T.S.



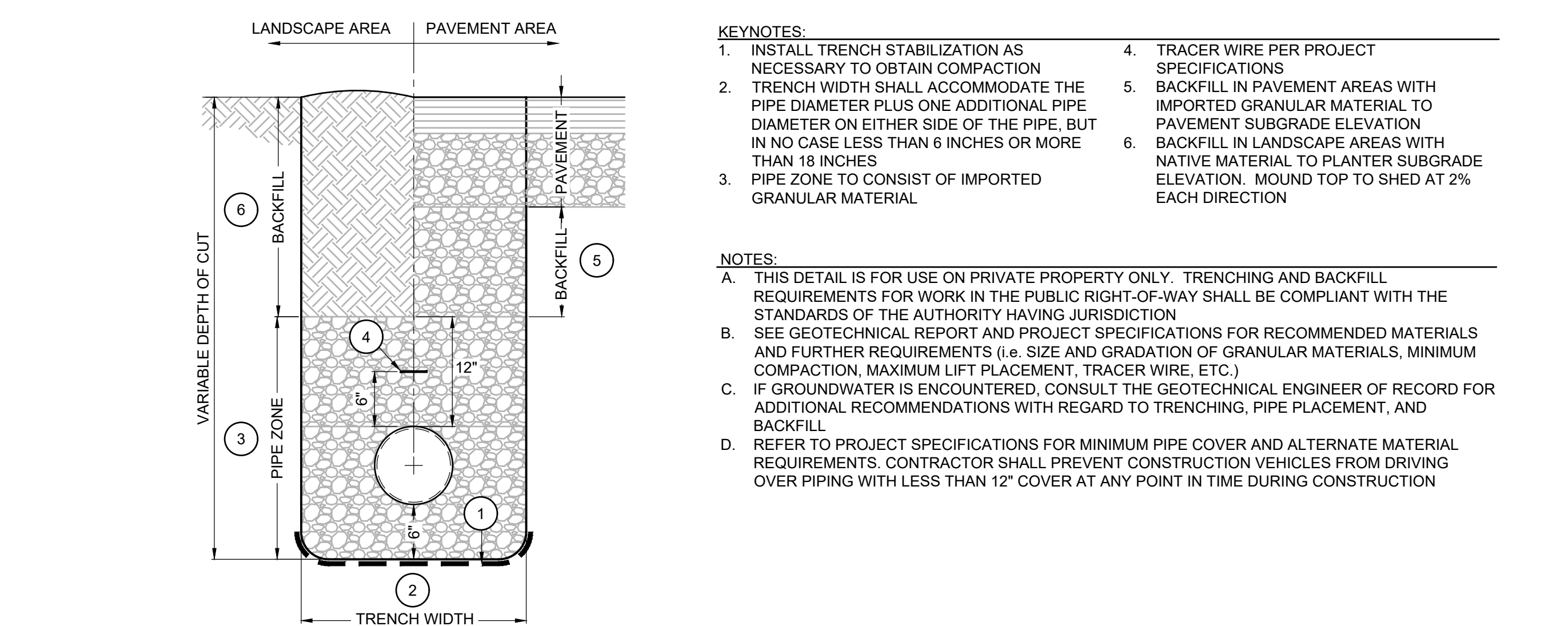
**7 REDUCED PRESSURE BACKFLOW AND ENCLOSURE (3" AND LARGER)**  
C5.11 N.T.S.



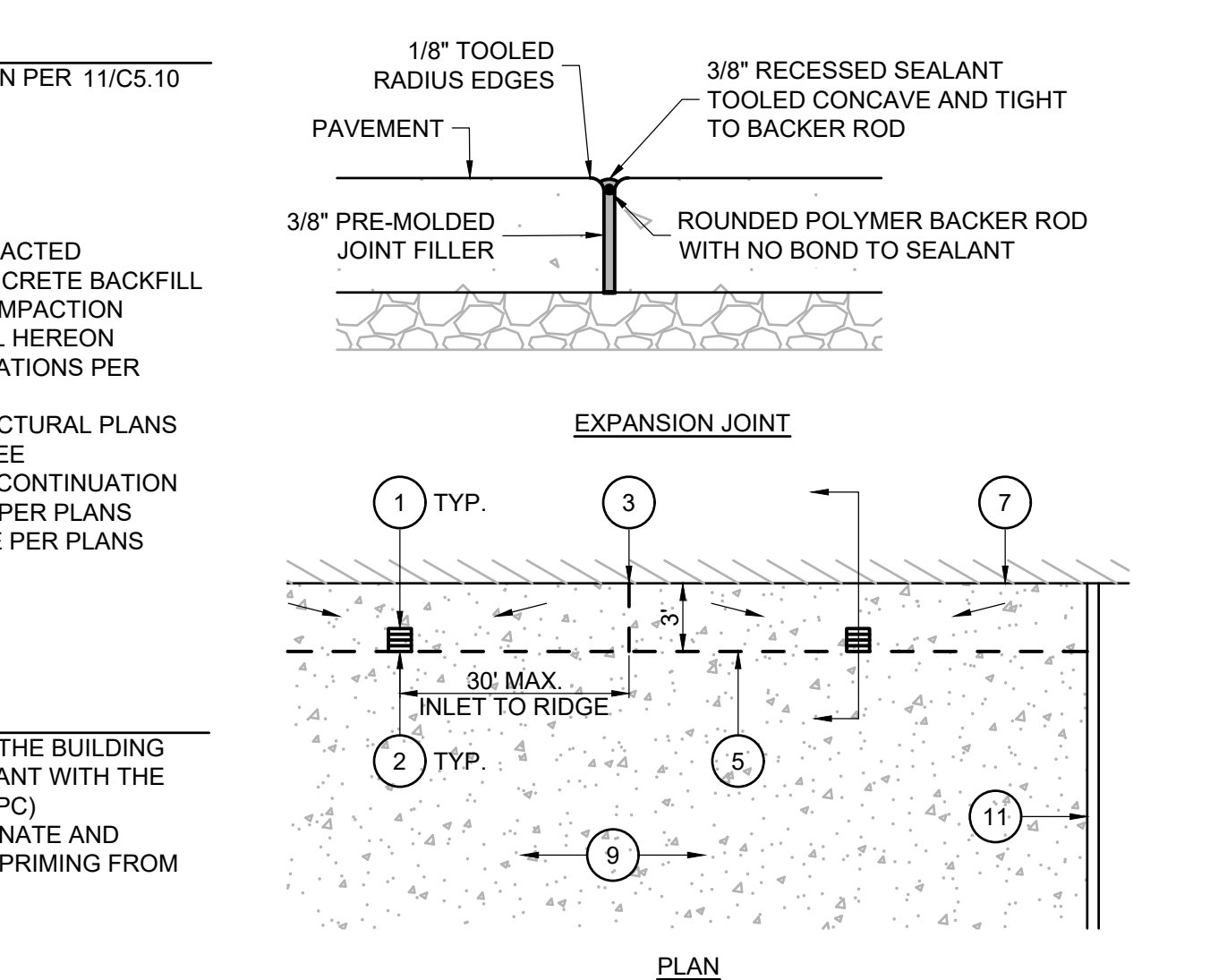
**9 STORM SEWER MANHOLES**  
C5.11 N.T.S.



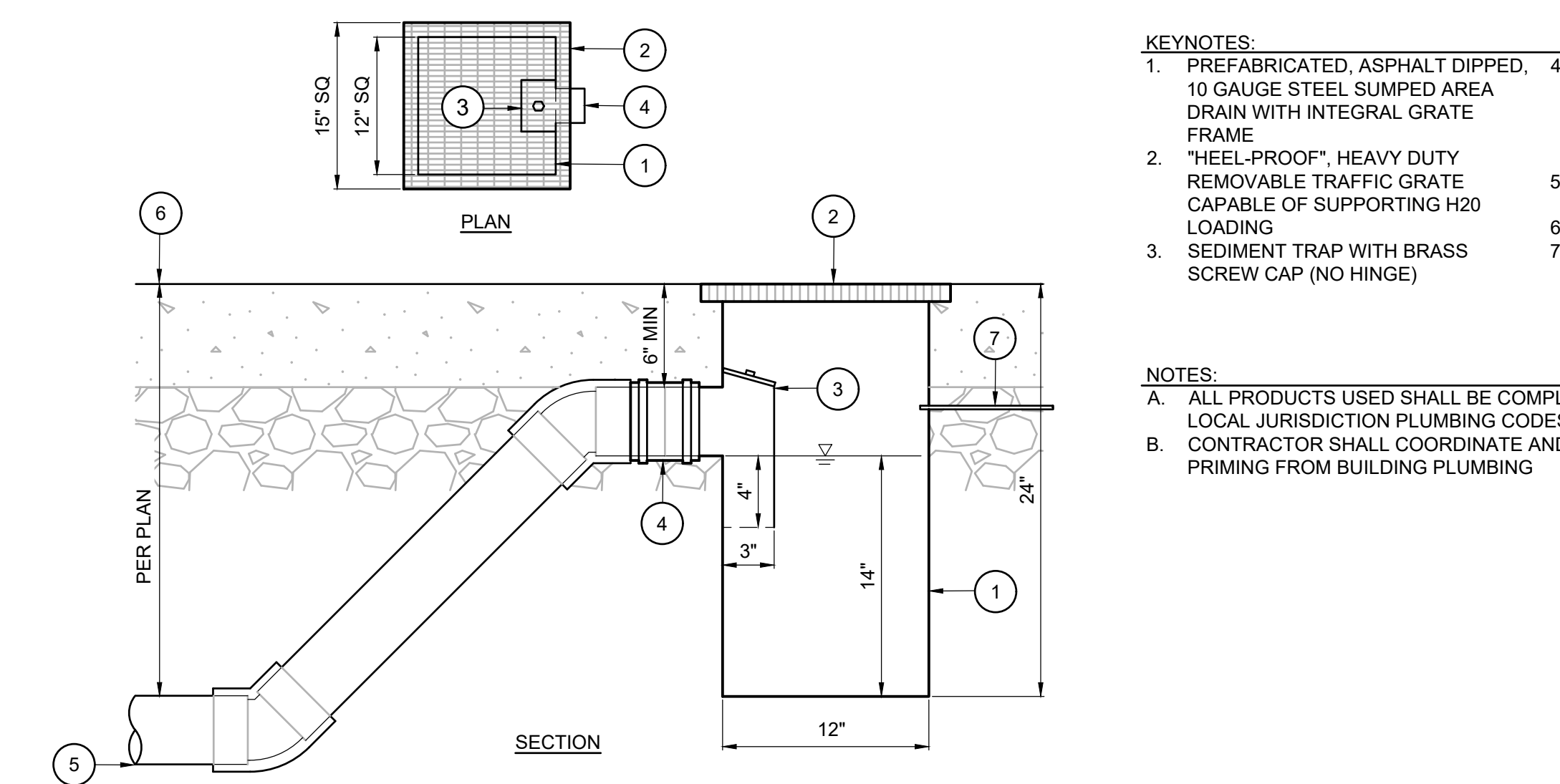
**10 DOWNSPOUT**  
C5.11 N.T.S.



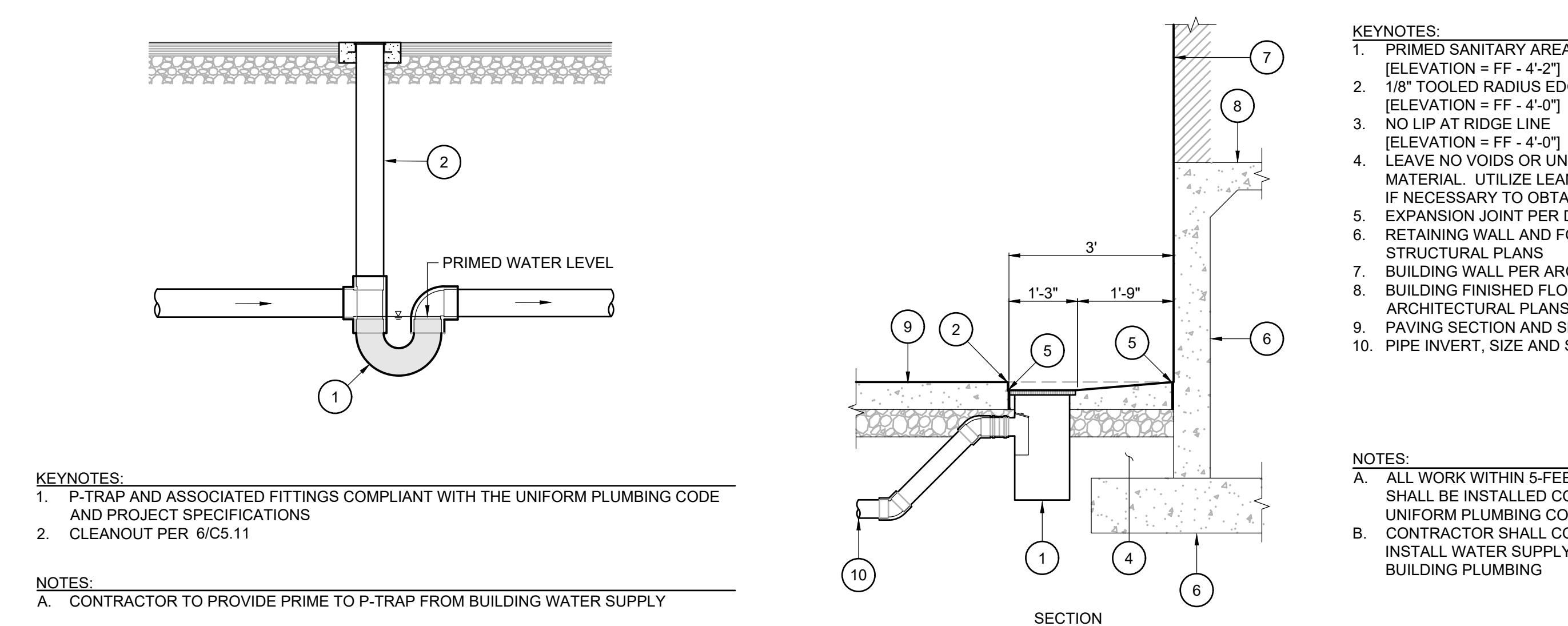
**8 UTILITY TRENCH BEDDING & BACKFILL**  
C5.11 N.T.S.



**12 LOADING DOCK ISOLATION ROW**  
C5.11 N.T.S.



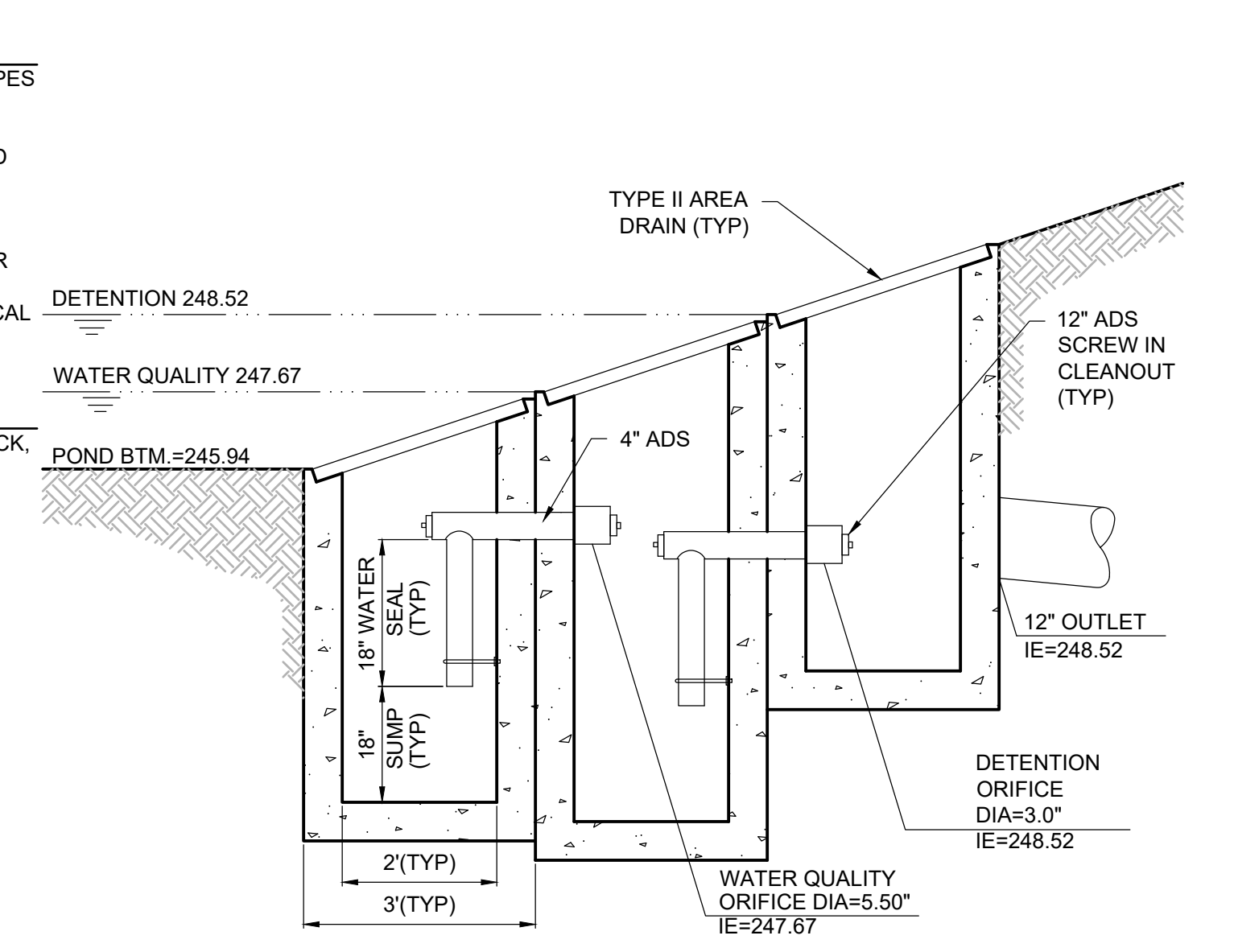
**13 SANITARY AREA DRAIN**  
C5.11 N.T.S.



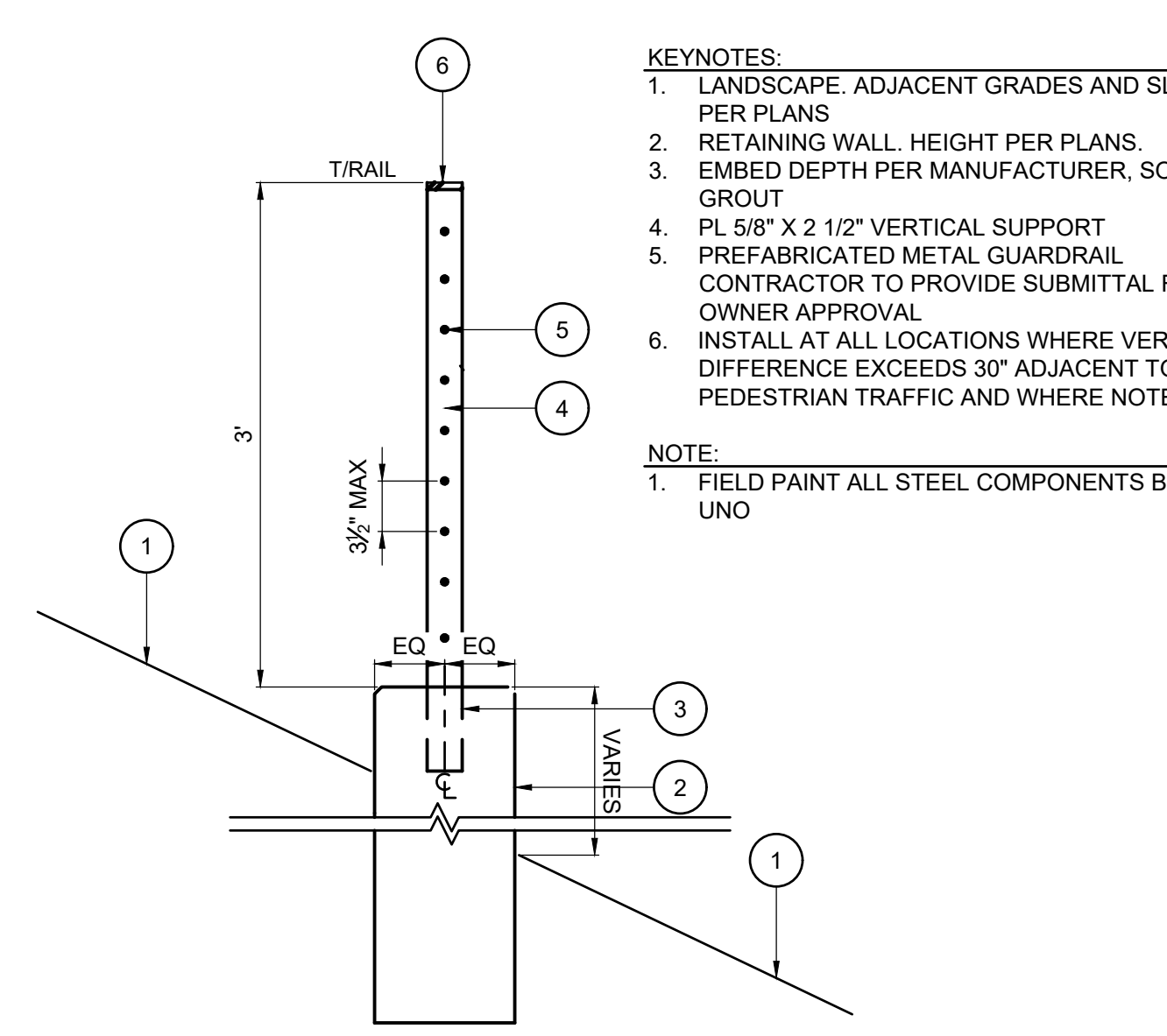
**11 P-TRAP**  
C5.11 N.T.S.



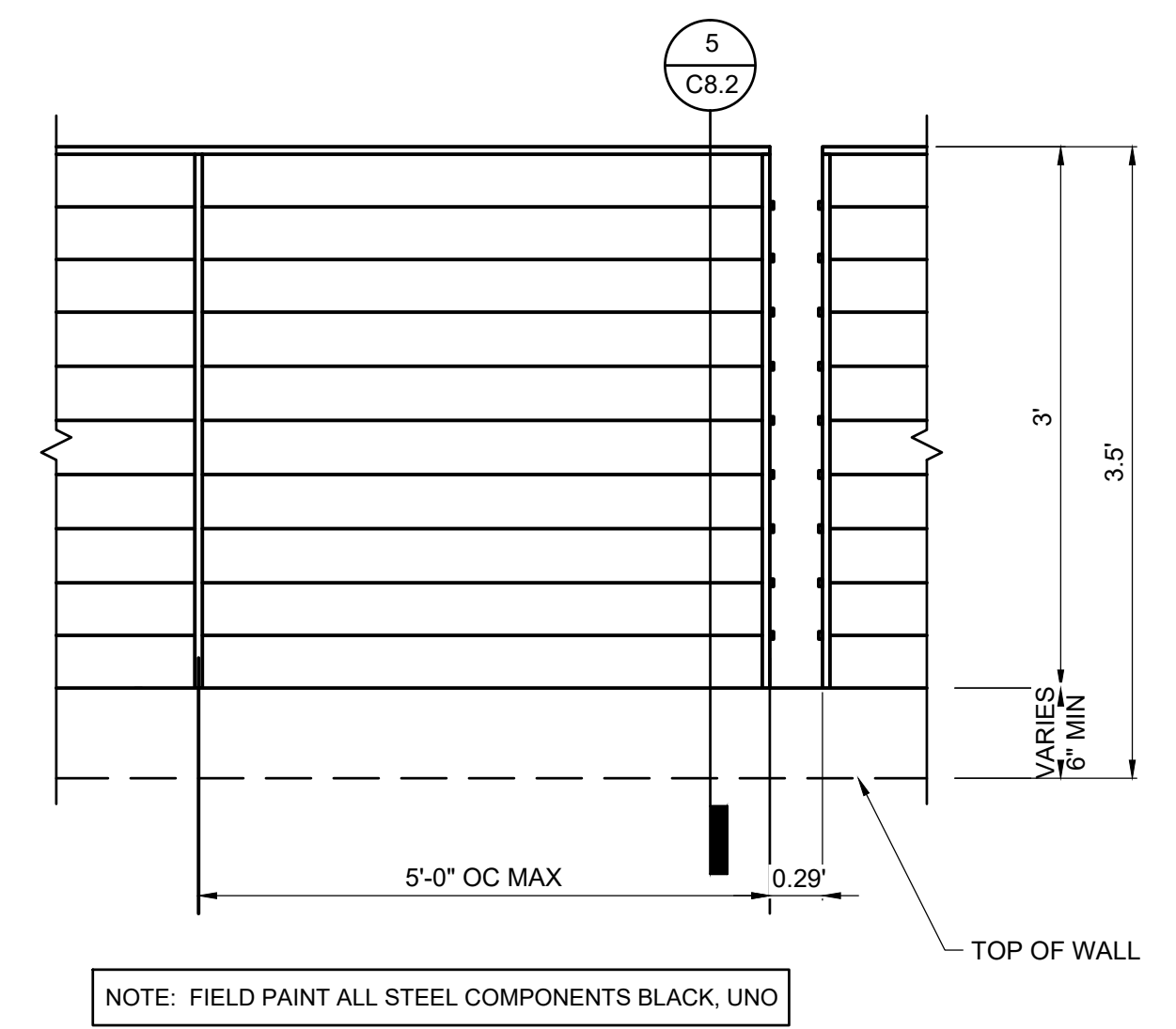
REVISION SCHEDULE		
Delta	Issued As	Issue Date
1	PLAN CHECK	06/10/2022
2	LAND USE	11/15/2022



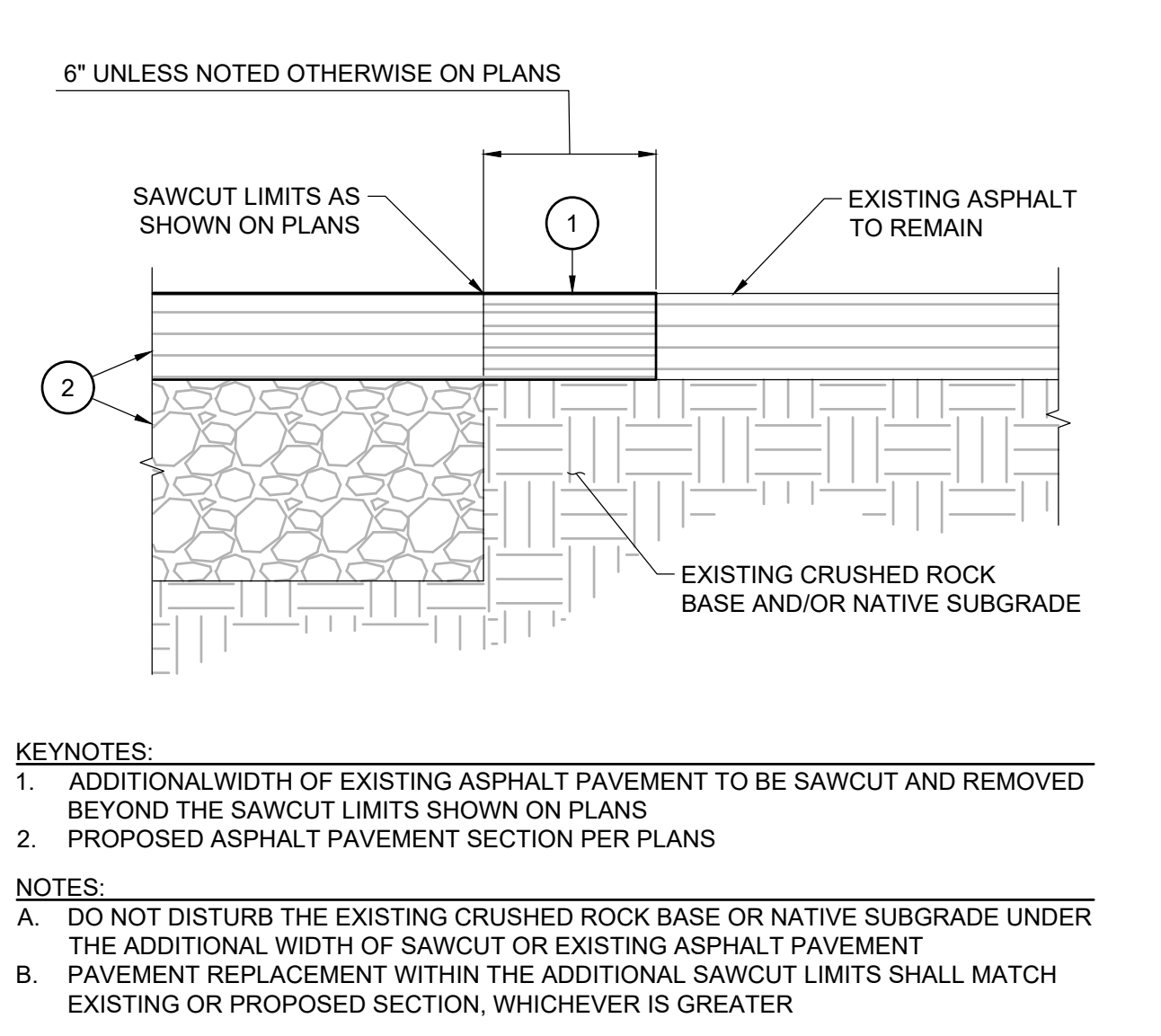
**5 RAIN GARDEN 1 OUTLET**  
N.T.S. OUTFLOW DEVICE



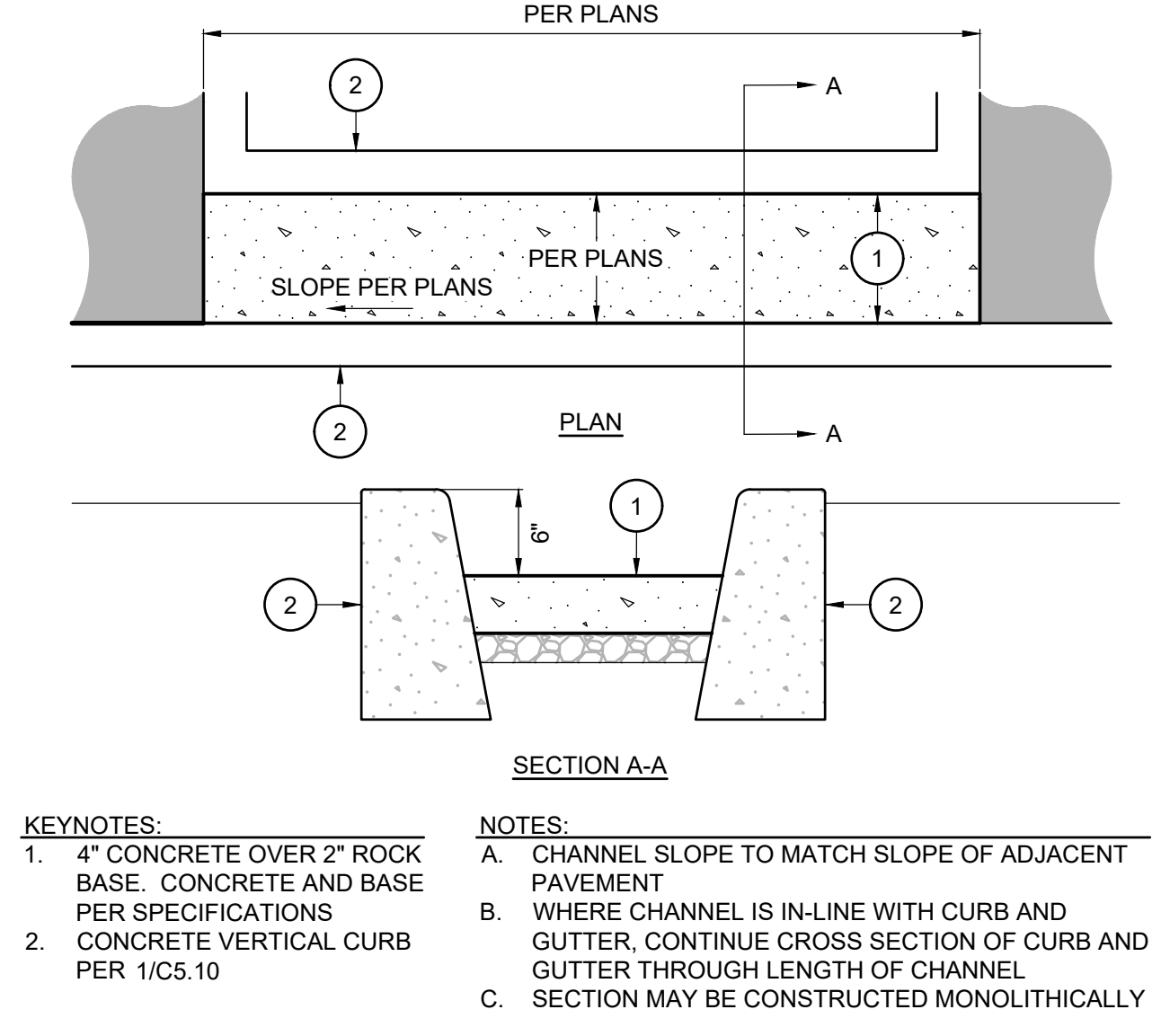
**4 GUARDRAIL SECTION - EMBED**  
N.T.S.



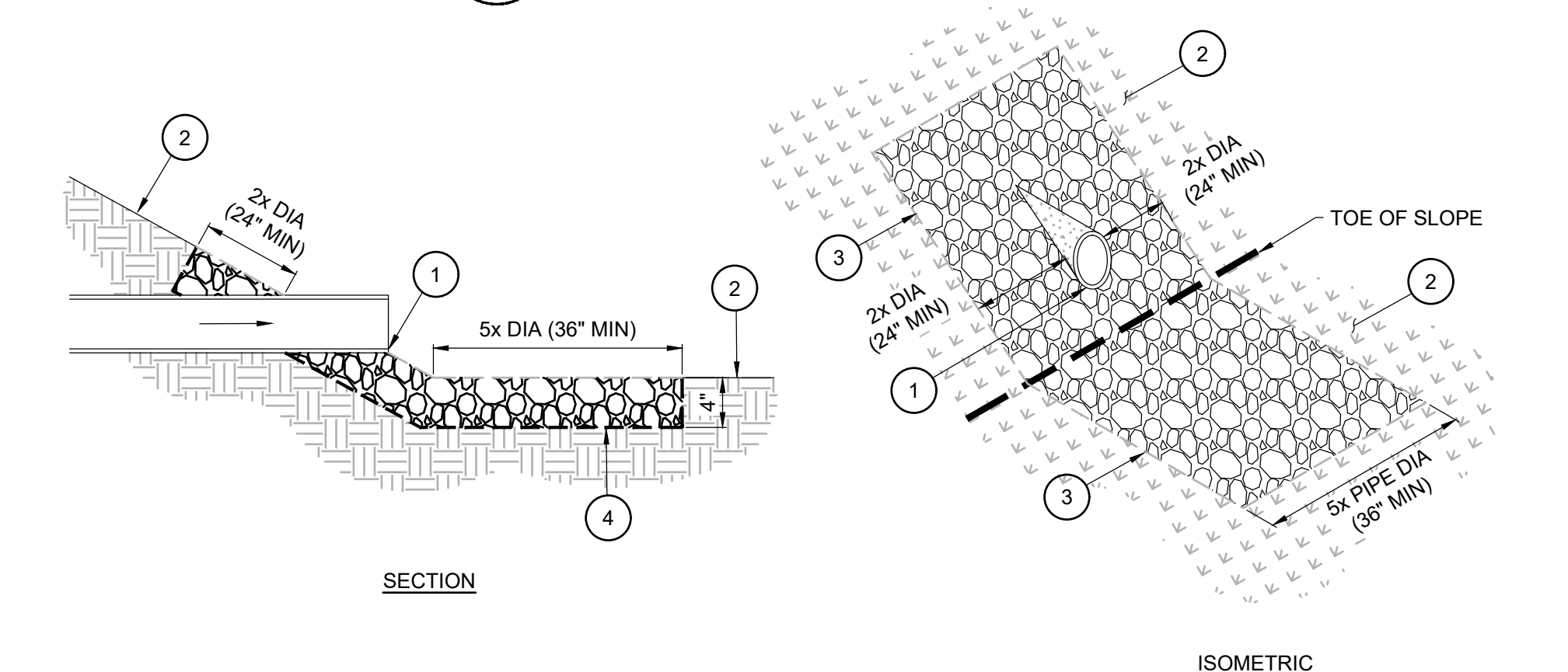
**3 GUARDRAIL ELEVATION**  
N.T.S.



**2 ASPHALT PAVEMENT SAWCUT**  
N.T.S.

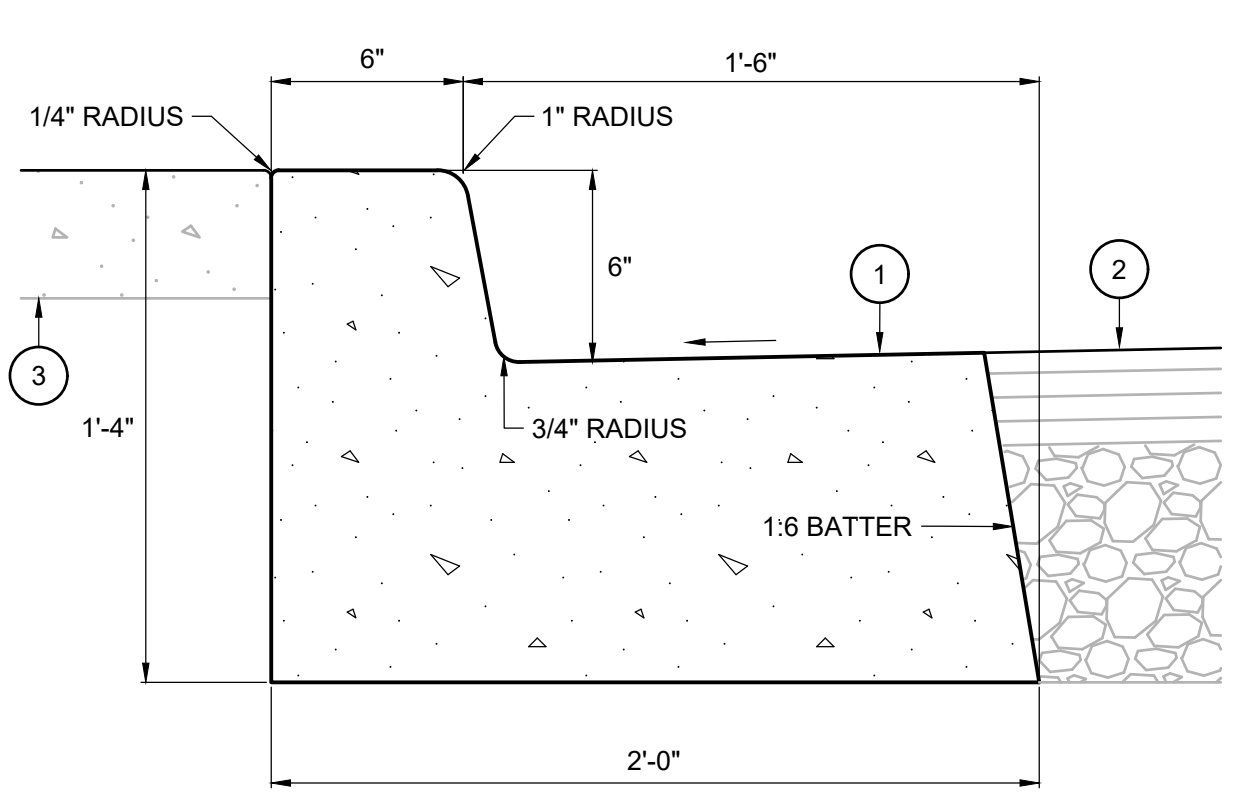


**1 CONCRETE CURB CHANNEL**  
N.T.S.

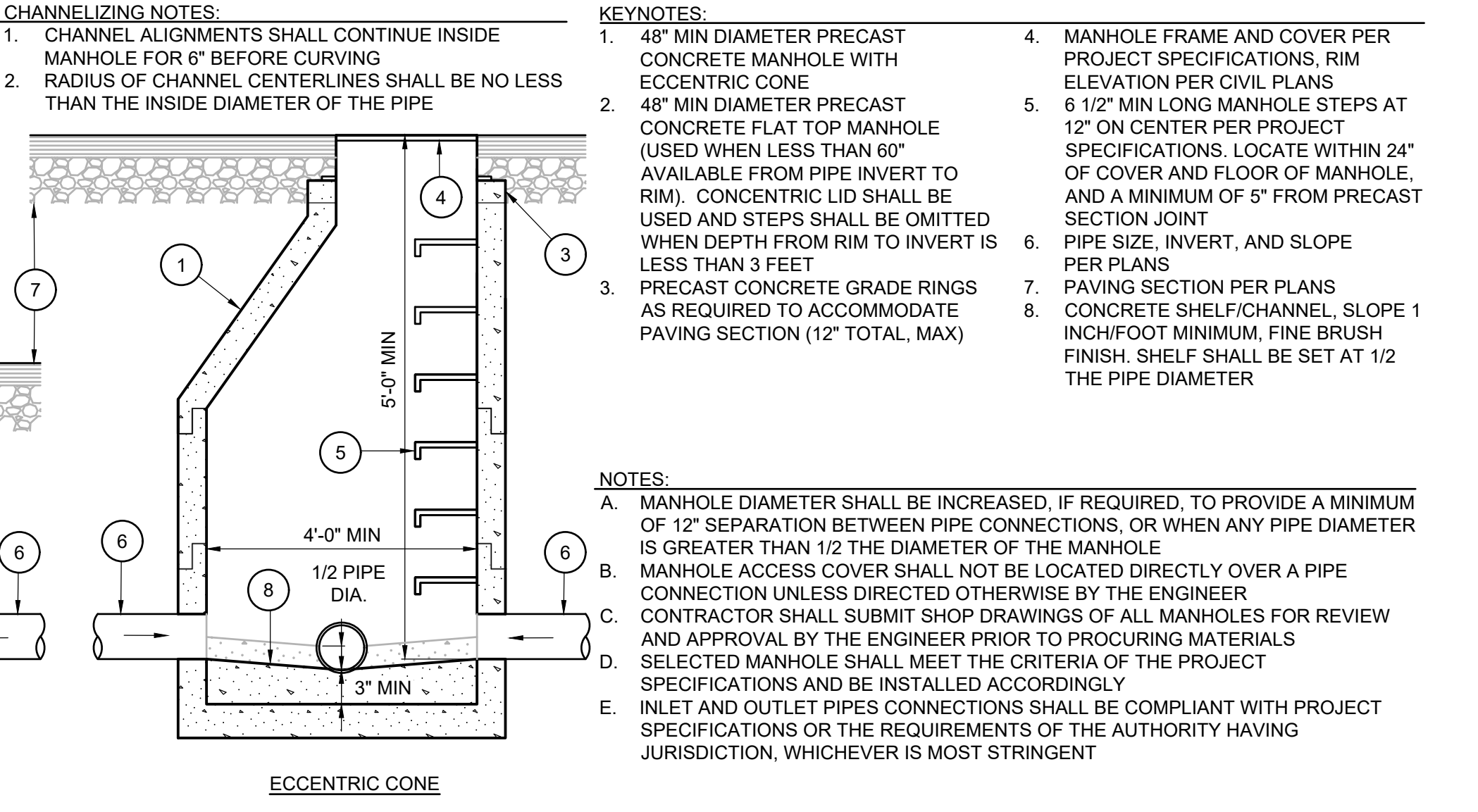


**6 RAIN GARDEN - TYPICAL SECTION**  
SCALE: 1"=2'

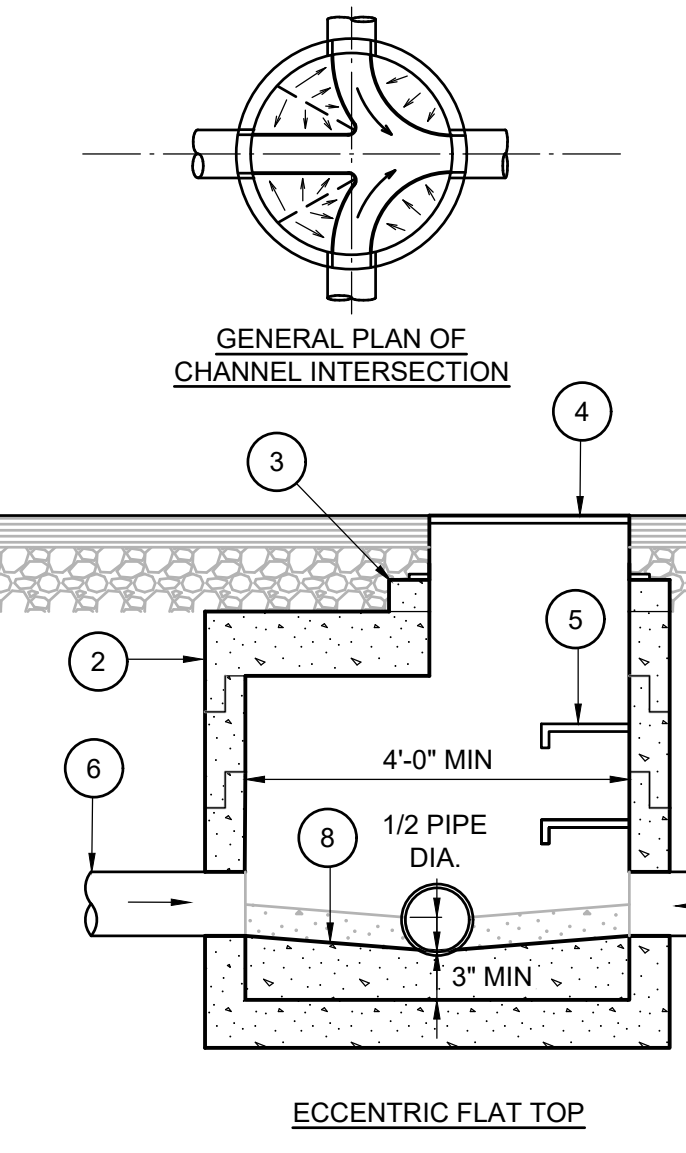
**7 PIPE OUTFALL - RIP RAP**  
N.T.S.



**9 VERTICAL CURB AND GUTTER**  
N.T.S.

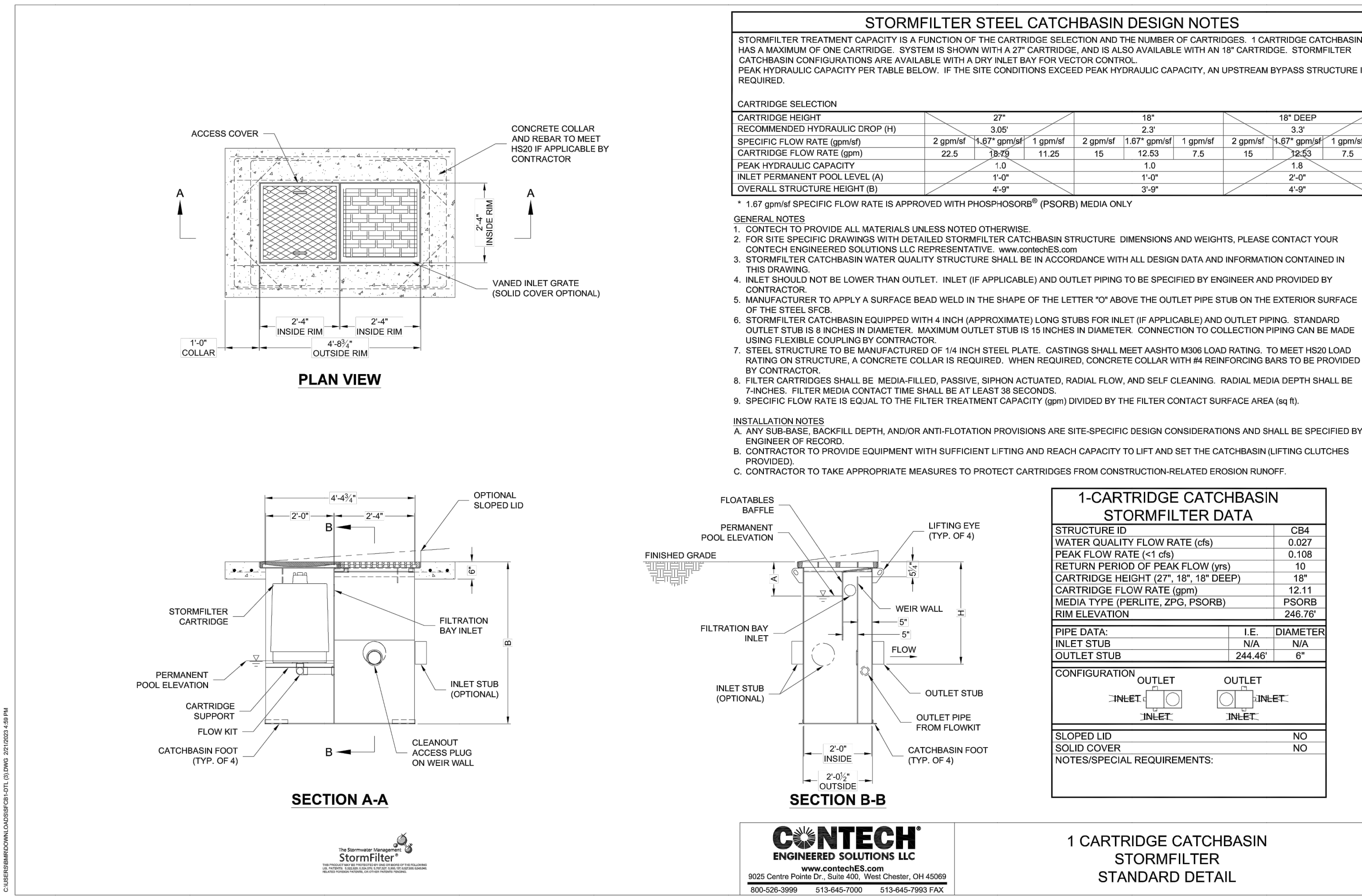
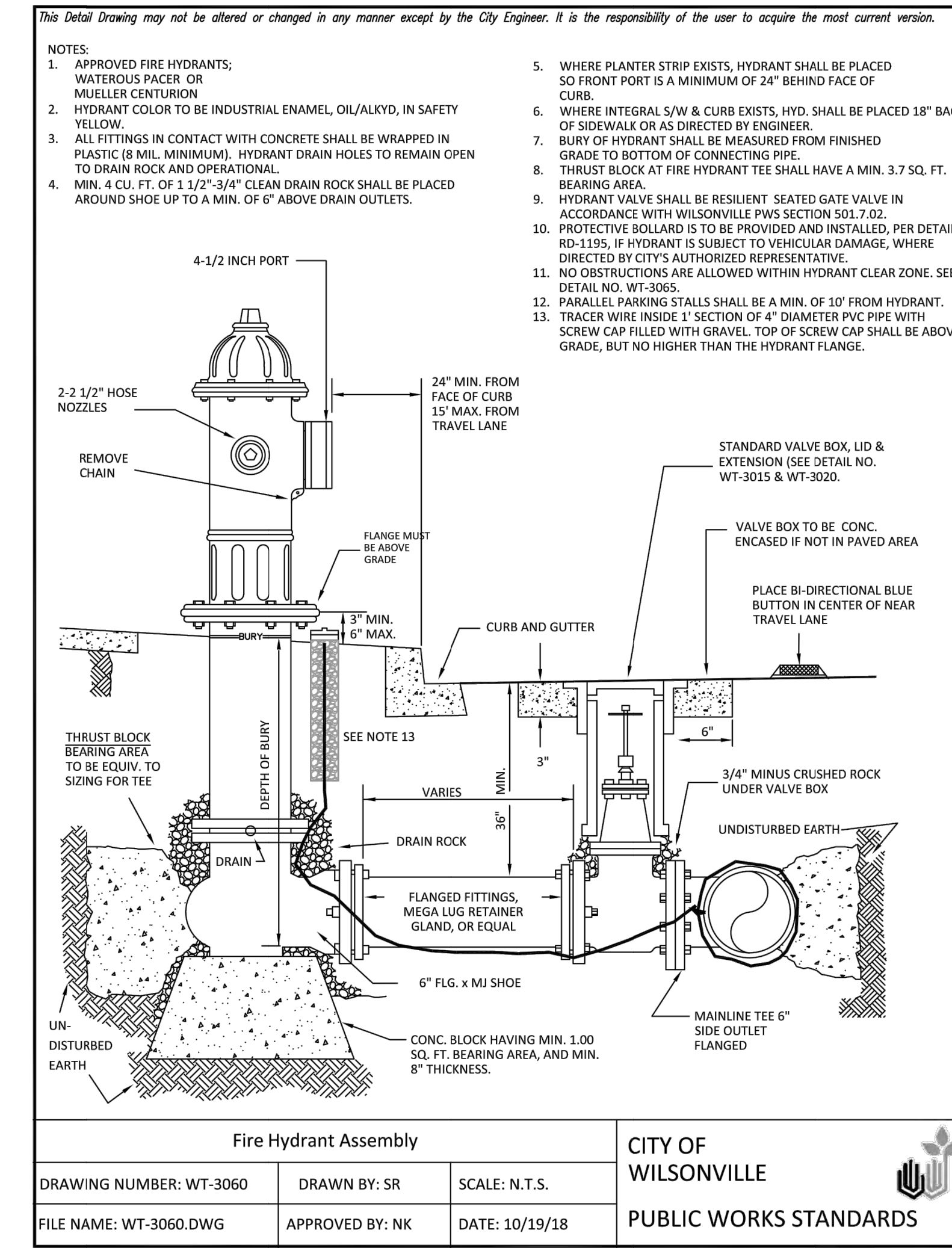
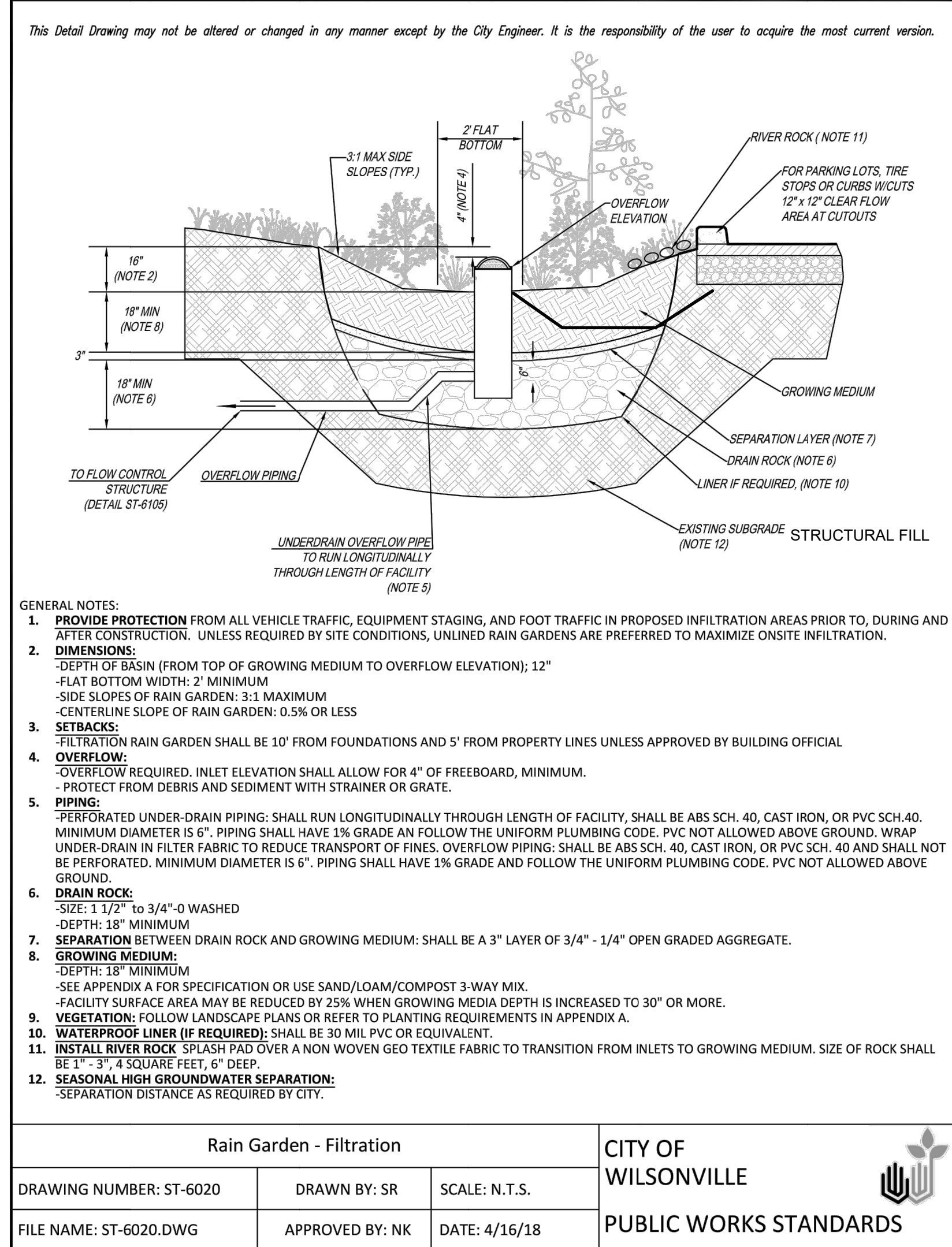
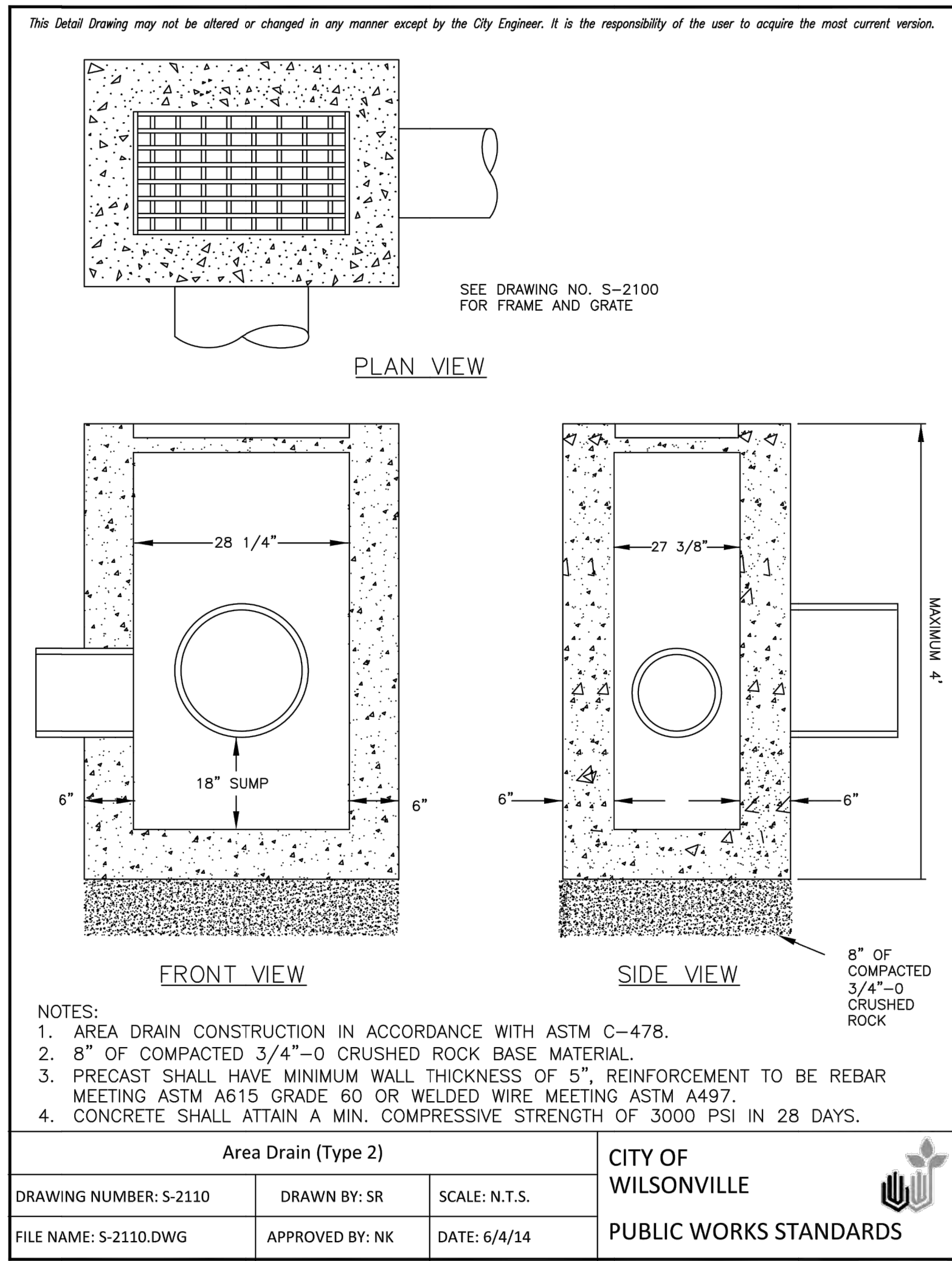


**8 SANITARY SEWER MANHOLES**  
N.T.S.



**GENERAL PLAN OF CHANNEL INTERSECTION**

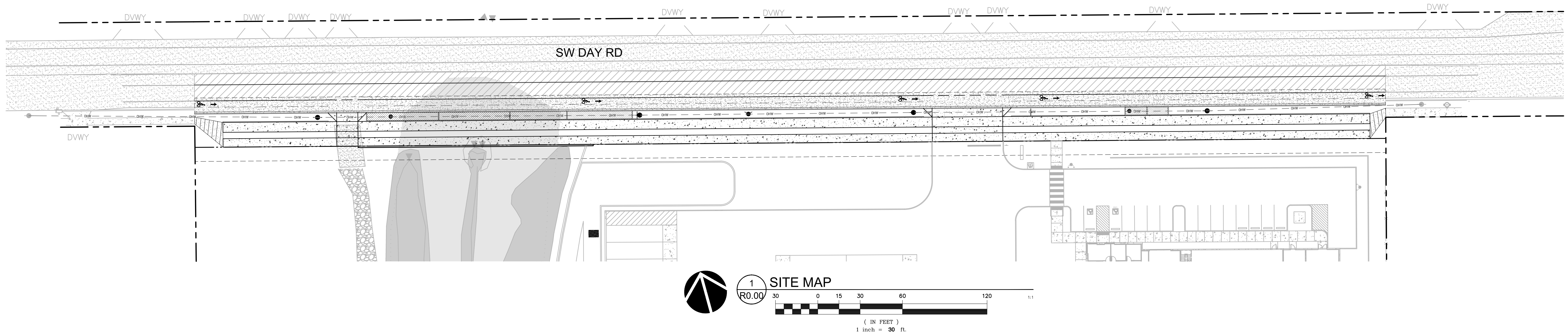




REVISION SCHEDULE		
Delta	Issued As	Issue Date



# DELTA LOGISTICS FRONTAGE IMPROVEMENTS WILSONVILLE, OR



**NOTICE TO EXCAVATORS:**  
ATTENTION: OREGON LAW REQUIRES YOU TO FOLLOW RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN OAR 952-001-0010 THROUGH OAR 952-001-0090. YOU MAY OBTAIN COPIES OF THE RULES BY CALLING THE CENTER.  
(NOTE: THE TELEPHONE NUMBER FOR THE OREGON UTILITY NOTIFICATION CENTER IS (503)-232-1987).

**POTENTIAL UNDERGROUND FACILITY OWNERS**

**Dig Safely.**  
Call the Oregon One-Call Center  
DIAL 811 or 1-800-332-2344

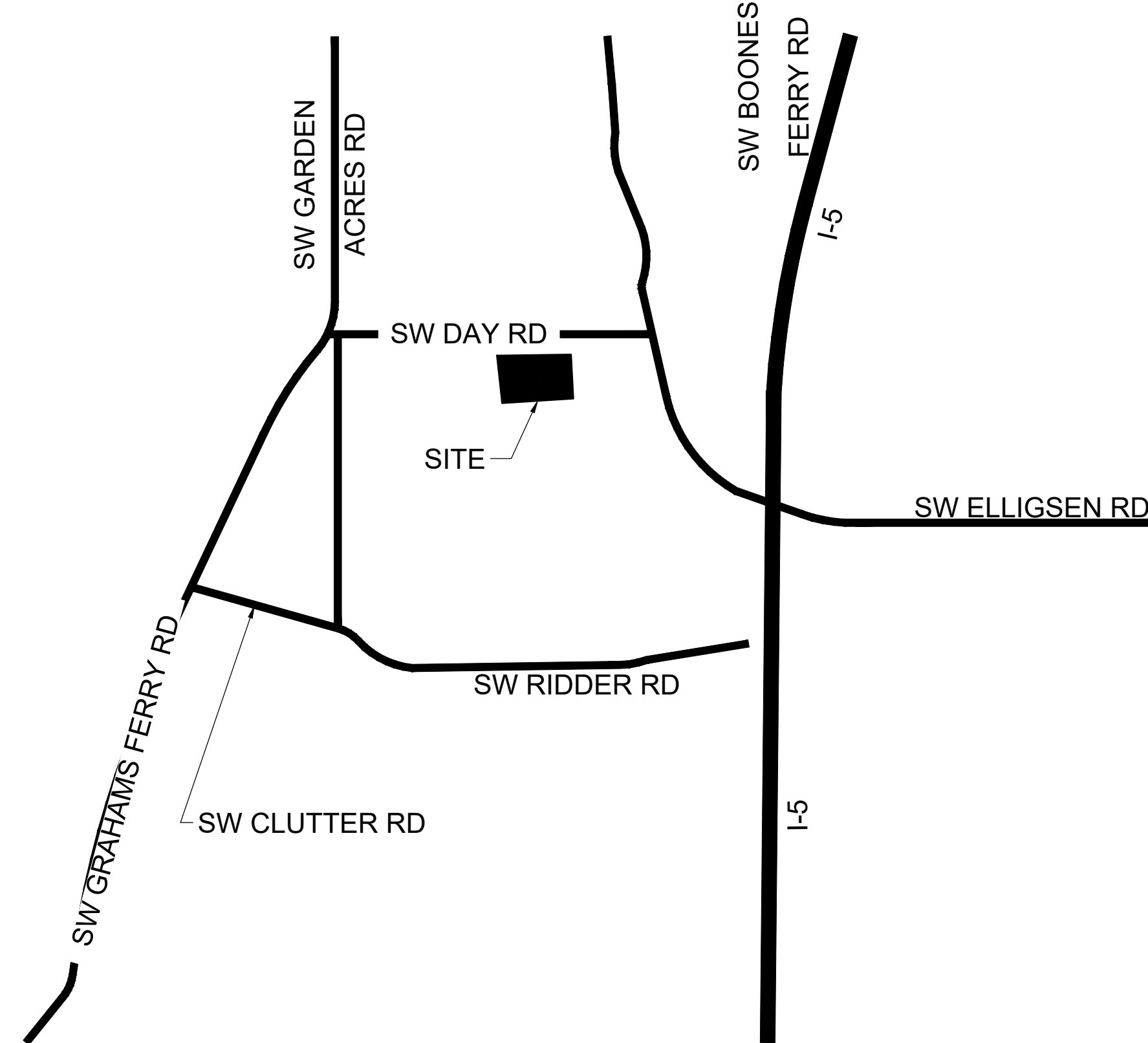
**EMERGENCY TELEPHONE NUMBERS**

NW NATURAL GAS  
M-F 7am-6pm 503-226-4211 Ext.4313  
AFTER HOURS 503-226-4211

PGE 503-228-6322

COMCAST 1-800-266-2278

CITY OF WILSONVILLE  
WATER AND SEWER 503-570-1610  
CENTURYLINK 1-866-421-0662  
FRONTIER COMMUNICATIONS 1-855-801-3655



**APPLICANT**  
DELTA LOGISTICS  
ATTN: VLAD TKACH  
9835 SW COMMERCE CIRCLE,  
WILSONVILLE, OR 97070  
PH: (503) 665-2200  
E-MAIL: vlad@deltalog.com

**SURVEYOR**  
WEDDLE SURVEYING INC.  
ATTN: ANTHONY RYAN  
6950 SW HAMPTON ST., SUITE 170  
TIGARD, OR 97223  
PH: (503) 941-9585  
FAX: (503) 941-9640  
E-MAIL: tony@weddlesurveying.com

**SITE ADDRESS**  
9710 SW DAY RD  
SHERWOOD, OR 97140  
PARCEL# 3S102B000600  
#3S102B000601

**BENCH MARK**  
THE BENCHMARK USED FOR THIS PROJECT WAS CONTROL POINT #400, A 3/8" IRON ROD WITH RED PLASTIC CAP MARKED "AKS CONTROL POINT" ELEVATION: 244.85' NAVD '88 DATUM (GEOID 12B)

**CIVIL**  
MACKENZIE  
ATTN: GREG MINO  
1515 SE WATER AVE, SUITE #100  
PORTLAND, OR 97214  
PH: (503) 224-9560  
FAX: (503) 228-1285  
E-MAIL: GJM@mcknze.com

**LANDSCAPE ARCHITECT**  
MACKENZIE  
ATTN: STEVEN TUTTLE  
1515 SE WATER AVENUE, SUITE 100  
PORTLAND, OREGON 97214  
PH: (503) 224-9560  
FAX: (503) 228-1285  
E-MAIL: SPT@mcknze.com

**PLANNER**  
MACKENZIE  
ATTN: LEE LEIGHTON  
1515 SE WATER AVE, SUITE #100  
PORTLAND, OR 97214  
PH: (503) 224-9560  
FAX: (503) 228-1285  
E-MAIL: LDL@mcknze.com

**ELECTRIC SERVICE PROVIDER**  
PGE  
ATTN: JOSE VELASCO  
PH: (503) 672-5454  
E-MAIL: jose.velasco@pge.com  
PROJECT #: M3228270

**SHEET INDEX**

Sheet Number	Sheet Title
R0.00	COVER SHEET
R0.01	NOTES, LEGEND, AND ABBREVIATIONS
R0.02	CROSS SECTIONS
R0.03	DETAILS
R0.04	DETAILS
R1.01	DEMOLITION PLAN
R1.10	PLAN AND PROFILE
R1.20	PLAN ENLARGEMENTS
R1.30	UTILITY PLAN
R1.40	STRIPING AND SIGNAGE PLAN
R1.41	STRIPING AND SIGNAGE DETAILS
R1.50	STREET LIGHTING AND PHOTOMETRICS PLAN



© MACKENZIE 2023  
ALL RIGHTS RESERVED  
THESE DRAWINGS ARE THE PROPERTY OF MACKENZIE AND ARE NOT TO BE USED OR REPRODUCED IN ANY MANNER WITHOUT PRIOR WRITTEN PERMISSION

**REVISION SCHEDULE**

Delta	Issued As	Issue Date

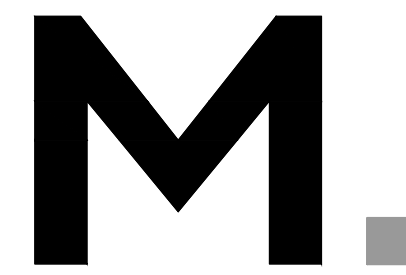
SHEET TITLE:  
**COVER SHEET**

DRAWN BY: CME  
CHECKED BY: GJM  
SHEET

**R0.00**

JOB NO. **2200502.04**





Architecture • Interiors  
Planning • Engineering

Portland, OR  
503.224.9560  
Vancouver, WA  
360.695.7879  
Seattle, WA  
206.749.9993  
www.mcknze.com

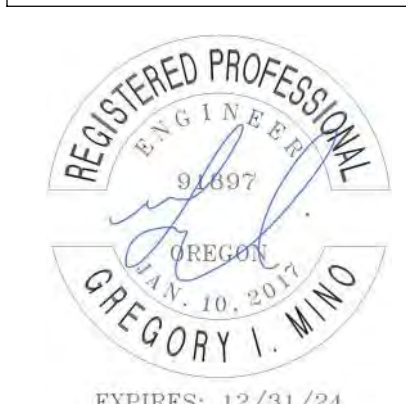
**MACKENZIE**  
DESIGN DRIVEN • CLIENT FOCUSED

Client

**DELTA LOGISTICS**  
9835 SW COMMERCE  
CIRCLE  
WILSONVILLE, OR  
97070

Project

**DELTA LOGISTICS**  
SITE EXPANSION  
FRONTAGE  
IMPROVEMENTS  
9710 SW DAY RD.  
CITY OF  
WILSONVILLE, OR



© MACKENZIE 2023  
ALL RIGHTS RESERVED  
THESE DRAWINGS ARE THE PROPERTY OF  
MACKENZIE AND ARE NOT TO BE USED  
OR REPRODUCED IN ANY MANNER  
WITHOUT PRIOR WRITTEN PERMISSION

REVISION SCHEDULE		
Delta	Issued As	Issue Date

SHEET TITLE:

**NOTES,  
LEGEND, AND  
ABBREVIATIONS**

DRAWN BY: AOC, BMR

CHECKED BY: BMR, BDN

SHEET

**R0.01**

JOB NO. **2200502.04**

**EXISTING**  
**PROPOSED**

**LEGEND**

CURBLINE AND GUTTER		
BRUSH LINE		
BUILDING EAVE		
BUILDING FOOTPRINT		
CENTERLINE		
EASEMENT LINE		
FENCE LINE		
GAS LINE		
OVERHEAD POWER		
STORM DRAIN LINE		
PERFORATED PIPE		
PROPERTY LINE		
R.O.W. LINE		
WATER LINE		
WETLANDS		
WETLANDS BUFFER		
CULVER INLET/OUTLET		
CURB INLET		
DECORATIVE SHRUB		
DOWNSPOUT		
FIRE HYDRANT		
GAS METER		
GAS RISER		
GATE POST		
GUY ANCHOR		
MAILBOX		
POWER METER		
SIGN "AS NOTED"		
SITE BENCHMARK		
STORM DRAIN MANHOLE		
SURVEY MONUMENTS FOUND		
SURVEY MONUMENTS SET		
UTILITY LID		
WATER METER		
WATER RISER		
WATER VALVE		
WATER VAULT		
WETLANDS BUFFER/ LINE STAKES		
POWER POLE		
SIDEWALK		
CONFEROUS TREE		
DECIDUOUS TREE		

**ABBREVIATIONS**

TC	TOP OF CURB	WM	WATER METER
AC	ASPHALT	OH	OVERHEAD WIRE
FH	FIRE HYDRANT	SSWR	SANITARY SEWER
FG	FINISHED GRADE	MH	MANHOLE
SW	SIDEWALK ELEVATION	IE	INVERT ELEVATION
TS	TOP OF STAIR	CB	CATCH BASIN
BS	BOTTOM OF STAIR	STM	STORM
TYP	TYPICAL	RD	ROOF DRAIN
R.O.W.	RIGHT OF WAY	FF/FFE	FINISHED FLOOR ELEVATION
LS	LANDSCAPE	NG	NATURAL GROUND
SROZ	SIGNIFICANT RESOURCE OVERLAY ZONE	CL	CENTERLINE
CO	CLEAN OUT	GPM	GALLONS PER MINUTE
INV	INVERT	FW	FIRE WATER
RD	ROOF DRAIN	PWS	PUBLIC WORKS STANDARDS
COW	CITY OF WILSONVILLE	PUE	PUBLIC UTILITY EASEMENT
		ELEV	ELEVATION

**GENERAL NOTES**

- ALL WORK SHALL CONFORM TO THE STANDARD SPECIFICATIONS AND THE REQUIREMENTS OF CITY OF WILSONVILLE, CITY OF WILSONVILLE PUBLIC WORKS STANDARDS-2017 AND THE CURRENT AMERICAN PUBLIC WORKS ASSOCIATION STANDARDS FOR PUBLIC WORKS CONSTRUCTION.
- THE WORKING DRAWINGS ARE GENERALLY DIAGRAMMATIC. THEY DO NOT SHOW EVERY OFFSET, BEND OR ELBOW REQUIRED FOR INSTALLATION IN THE SPACE PROVIDED. THEY DO NOT SHOW EVERY DIMENSION, COMPONENT PIECE, SECTION, JOINT OR FITTING REQUIRED TO COMPLETE THE PROJECT. ALL LOCATIONS FOR WORK SHALL BE CHECKED AND COORDINATED WITH EXISTING CONDITIONS IN THE FIELD BEFORE BEGINNING CONSTRUCTION. EXISTING UNDERGROUND UTILITIES LAYING WITHIN THE LIMITS OF EXCAVATION SHALL BE VERIFIED AS TO CONDITION, SIZE AND LOCATION BY UNCOVERING, PROVIDING SUCH IS PERMITTED BY LOCAL PUBLIC AUTHORITIES WITH JURISDICTION, BEFORE BEGINNING CONSTRUCTION. CONTRACTOR TO NOTIFY ENGINEER IF THERE ARE ANY DISCREPANCIES.
- EFFECTIVE EROSION CONTROL IS REQUIRED. EROSION CONTROL DEVICES MUST BE INSTALLED AND MAINTAINED TO MEET THE CITY REQUIREMENTS. THE GOVERNING JURISDICTION MAY, AT ANY TIME, ORDER CORRECTIVE ACTION AND STOPPAGE OF WORK TO ACCOMPLISH EFFECTIVE EROSION CONTROL.
- EFFECTIVE DRAINAGE CONTROL IS REQUIRED. DRAINAGE SHALL BE CONTROLLED WITHIN THE WORK SITE AND SHALL BE ROUTED SO THAT ADJACENT PRIVATE PROPERTY, PUBLIC PROPERTY, AND THE RECEIVING SYSTEM ARE NOT ADVERSELY IMPACTED. THE GOVERNING JURISDICTION MAY, AT ANY TIME, ORDER CORRECTIVE ACTION AND STOPPAGE OF WORK TO ACCOMPLISH EFFECTIVE DRAINAGE CONTROL.
- CONTRACTOR SHALL ADJUST ALL STRUCTURES IMPACTED BY CONSTRUCTION IMPROVEMENTS TO NEW FINISH GRADES.
- EXCAVATION: EXCAVATE FOR SLABS, PAVING, AND OTHER IMPROVEMENTS TO SIZES AND LEVELS SHOWN OR REQUIRED. ALLOW FOR FORM CLEARANCE AND FOR PROPER COMPACTION OF REQUIRED BACKFILLING MATERIAL. EXCAVATOR(S) SHALL NOTIFY ALL UTILITY COMPANIES FOR LINE LOCATIONS SEVENTY-TWO (72) HOURS (MINIMUM) PRIOR TO START OF WORK. DAMAGE TO UTILITIES SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.
- WHERE CONNECTING TO AN EXISTING PIPE, AND PRIOR TO ORDERING MATERIALS, THE CONTRACTOR SHALL EXPOSE THE END OF THE EXISTING PIPE VERIFY THE LOCATION, SIZE, AND ELEVATION. NOTIFY ENGINEER OF ANY DISCREPANCIES.

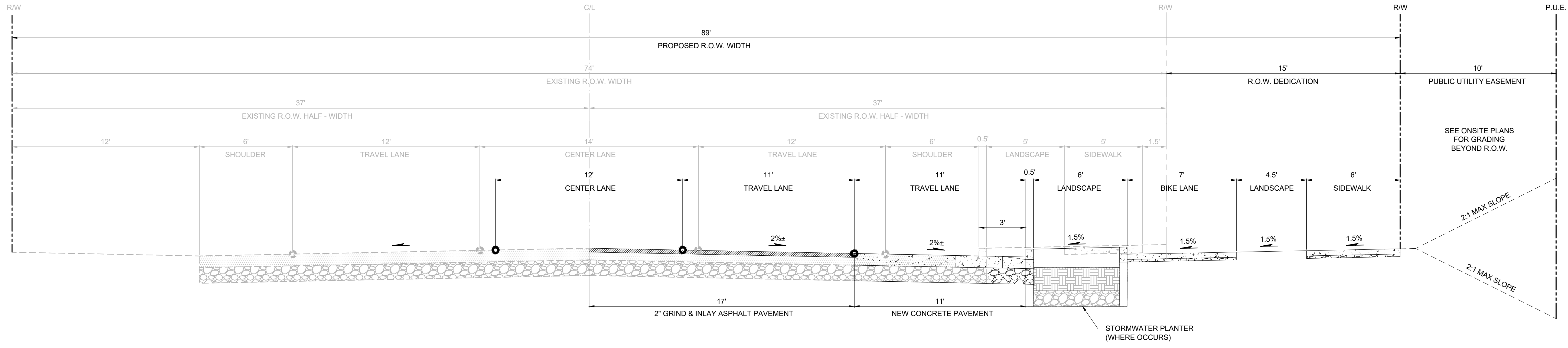
**UTILITY NOTES**

- ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF CITY OF WILSONVILLE, DEPARTMENT OF ENVIRONMENTAL SERVICE, AND THE CURRENT EDITION OF THE UNIFORM PLUMBING CODE AND THE INTERNATIONAL BUILDING CODE. ALL WORK WITHIN THE PUBLIC R.O.W. REQUIRES A PUBLIC WORKS PERMIT.
- THE WORKING DRAWINGS ARE GENERALLY DIAGRAMMATIC. THEY DO NOT SHOW EVERY OFFSET, BEND OR ELBOW REQUIRED FOR INSTALLATION IN THE SPACE PROVIDED. THEY DO NOT SHOW EVERY DIMENSION, COMPONENT PIECE, SECTION, JOINT OR FITTING REQUIRED TO COMPLETE THE PROJECT. ALL LOCATIONS FOR WORK SHALL BE CHECKED AND COORDINATED WITH EXISTING CONDITIONS IN THE FIELD BEFORE BEGINNING CONSTRUCTION. EXISTING UNDERGROUND UTILITIES LAYING WITHIN THE LIMITS OF EXCAVATION SHALL BE VERIFIED AS TO CONDITION, SIZE AND LOCATION BY UNCOVERING, PROVIDING SUCH IS PERMITTED BY LOCAL PUBLIC AUTHORITIES WITH JURISDICTION, BEFORE BEGINNING CONSTRUCTION. CONTRACTOR TO NOTIFY ENGINEER IF THERE ARE ANY DISCREPANCIES.
- PROVIDE CLEANOUTS AS REQUIRED IN THE CURRENT EDITION OF THE UNIFORM PLUMBING CODE.
- ALL STORM PIPING IS SIZED FOR A MANNING'S "N" VALUE = 0.013 ALL STORM PIPING IS DESIGNED USING CONCENTRIC PIPE TO PIPE AND WYE FITTINGS, UNLESS OTHERWISE NOTED.
- VERIFY LOCATION, SIZE AND DEPTH OF EXISTING UTILITIES BY POTHOLING PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF DISCREPANCIES.
- THE SURVEY INFORMATION SHOWN AS A BACKGROUND SCREEN ON THIS SHEET IS BASED ON A SURVEY PREPARED BY WEDDLE SURVEYING, INC.
- CONTRACTOR TO PROVIDE POWER TO IRRIGATION CONTROLLER VIA DESIGN BUILD ELECTRICAL. SEE SPECIFICATIONS AND LANDSCAPE PLANS.
- SEE BUILDING PLUMBING DRAWINGS FOR PIPING WITHIN THE BUILDING AND UP TO 5' OUTSIDE THE BUILDING, INCLUDING ANY FOUNDATION DRAINAGE PIPING.
- CONTRACTOR TO MAINTAIN MINIMUM 3 FT OF COVER OVER ALL WATER LINE.

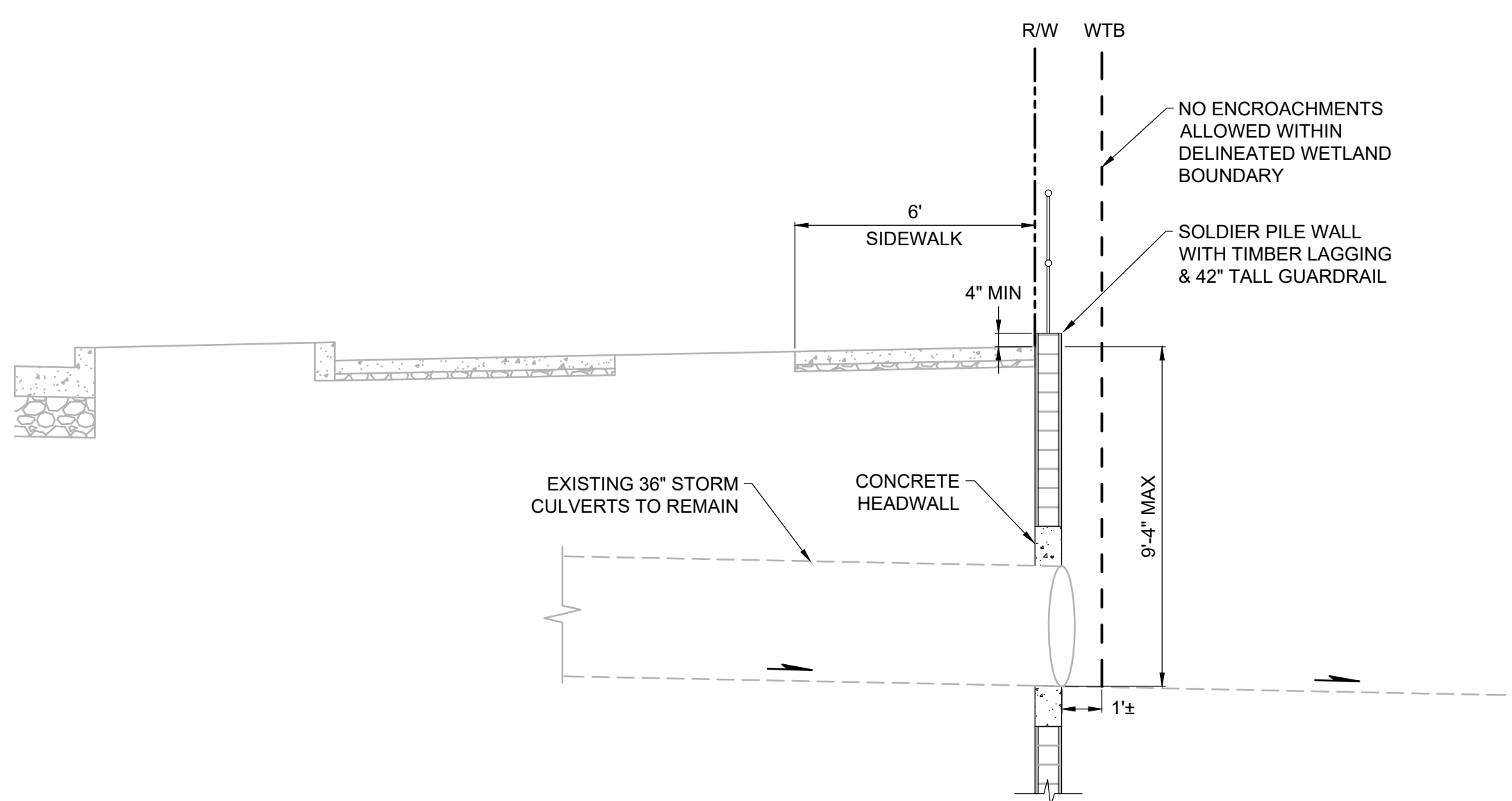
**GRADING NOTES**

- ROUGH GRADING:** BRING ALL FINISH GRADES TO APPROXIMATE LEVELS INDICATED. WHERE GRADES ARE NOT OTHERWISE INDICATED, FINISH GRADES ARE TO BE THE SAME AS ADJACENT SIDEWALKS, CURBS, OR THE OBVIOUS GRADE OF ADJACENT STRUCTURE. GRADE TO UNIFORM LEVELS OR SLOPES BETWEEN POINTS WHERE GRADES ARE GIVEN. ROUND OFF SURFACES, AVOID ABRUPT CHANGES IN LEVELS. ROUGH GRADE TO ALLOW FOR DEPTH OF CONCRETE SLABS, WALKS, AND THEIR BASE COURSES. GRADE FOR PAVED DRIVES AND PAVED PARKING AREAS AS INDICATED AND SPECIFIED HEREIN, AND PROVIDE FOR SURFACE DRAINAGE AS SHOWN, ALLOWING FOR THICKNESS OF SURFACING MATERIAL.  
**FINISH GRADING:** AT COMPLETION OF JOB AND AFTER BACKFILLING BY OTHER CRAFTS HAS BEEN COMPLETED, REFILL AND COMPACT AREAS WHICH HAVE SETTLED OR ERODED TO BRING TO FINAL GRADES.  
GRADING TOLERANCES:  
ROUGH GRADE AT PAVED OR LANDSCAPED AREAS: ±0.1 FT.  
FINISH GRADE PRIOR TO PLACING FINAL SURFACING: ±0.03 FT.
- EFFECTIVE EROSION PREVENTION AND SEDIMENT CONTROL IS REQUIRED. EROSION CONTROL DEVICES MUST BE INSTALLED AND MAINTAINED MEETING THE CITY AND DEQ REQUIREMENTS. THE GOVERNING JURISDICTION MAY, AT ANY TIME, ORDER CORRECTIVE ACTION AND STOPPAGE OF WORK TO ACCOMPLISH EFFECTIVE EROSION CONTROL.
- EFFECTIVE DRAINAGE CONTROL IS REQUIRED. DRAINAGE SHALL BE CONTROLLED WITHIN THE WORK SITE AND SHALL BE SO ROUTED THAT ADJACENT PRIVATE PROPERTY, PUBLIC PROPERTY, AND THE RECEIVING SYSTEM ARE NOT ADVERSELY IMPACTED. THE GOVERNING JURISDICTION MAY, AT ANY TIME, ORDER CORRECTIVE ACTION AND STOPPAGE OF WORK TO ACCOMPLISH EFFECTIVE DRAINAGE CONTROL.
- SITE TOPSOIL SHALL BE STOCKPILED DURING CONSTRUCTION AND USED FOR LANDSCAPING.
- THE SURVEY INFORMATION SHOWN AS A BACKGROUND SCREEN ON THIS SHEET IS BASED ON A SURVEY BY NORTHWEST SURVEYING INC. AND IS SHOWN FOR REFERENCE ONLY. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS WITH HIS OWN RESOURCES PRIOR TO START OF ANY CONSTRUCTION.
- CONTRACTOR TO COORDINATE GRADES AT ENTRANCE WITH ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION.
- 2% MAXIMUM CROSS SLOPE AT ALL ADA-COMPLIANT PARKING SPACES AND LOADING ZONES.
- 5% MAX LONGITUDINAL SLOPE (EXCLUDING RAMPS) AT PEDESTRIAN SIDEWALK CONNECTIONS BETWEEN PUBLIC R.O.W. AND BUILDING ENTRANCES.
- WHERE SLOPES ARE STEEPER THAN 3:1, CONTRACTOR SHALL INSTALL JUTE MATTING. SLOPE SHALL BE PREPARED TO ENSURE COMPLETE AND DIRECT CONTACT OF MATTING WITH SOIL. FOLLOW MANUFACTURER'S RECOMMENDATIONS.

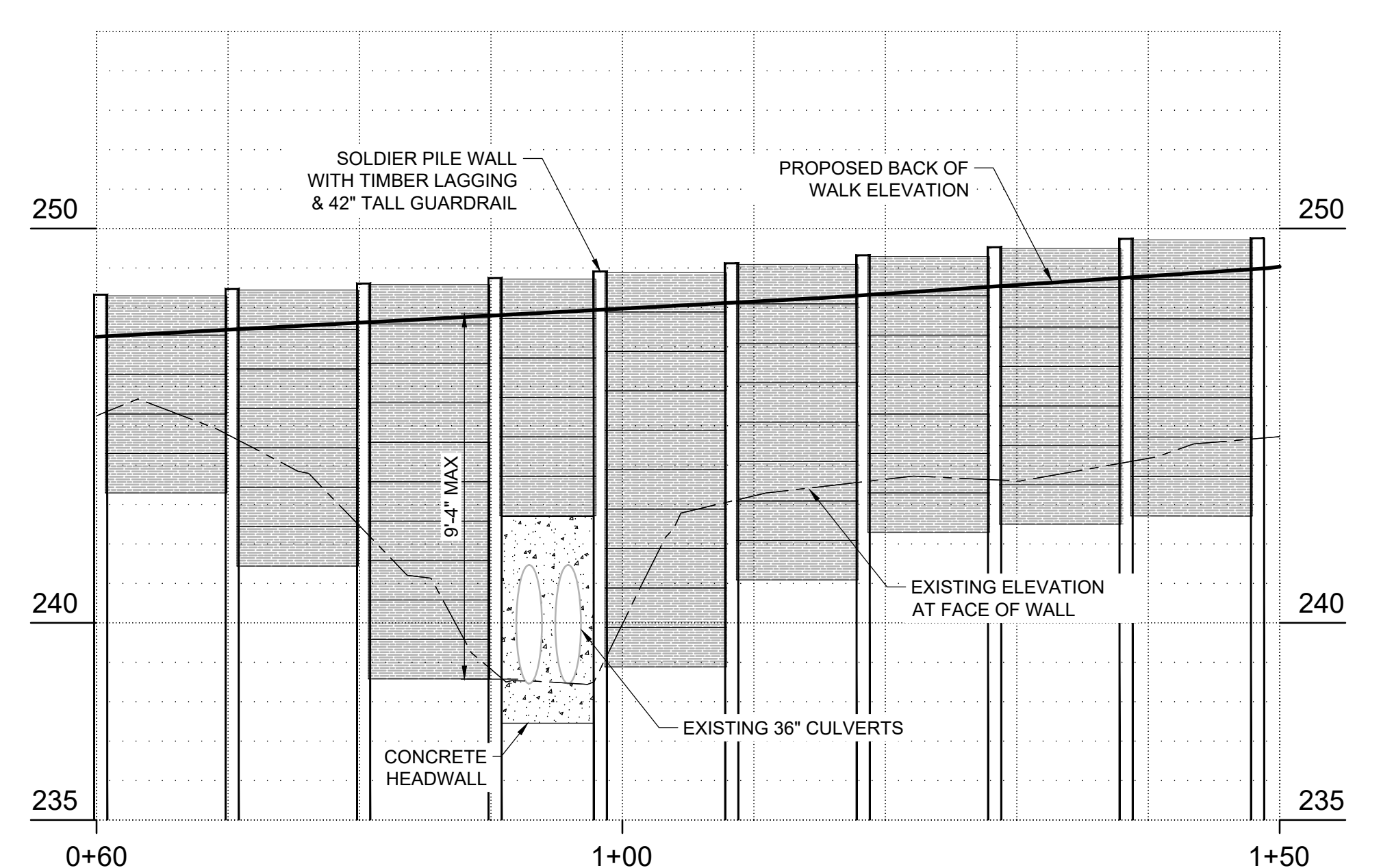




**1**  
 TYPICAL SECTION - DAY ROAD  
 R0.02 N.T.S.



**2**  
 CROSS SECTION - DAY ROAD (CULVERT)  
 R0.02 N.T.S.



**1**  
 ELEVATION - DAY ROAD (CULVERT)  
 R0.02 N.T.S.



© MACKENZIE 2023  
 ALL RIGHTS RESERVED  
 THESE DRAWINGS ARE THE PROPERTY OF  
 MACKENZIE AND ARE NOT TO BE USED  
 OR REPRODUCED IN ANY MANNER  
 WITHOUT PRIOR WRITTEN PERMISSION

REVISION SCHEDULE		
Delta	Issued As	Issue Date

SHEET TITLE:  
**CROSS  
 SECTIONS**

DRAWN BY: CME  
 CHECKED BY: GIM  
 SHEET

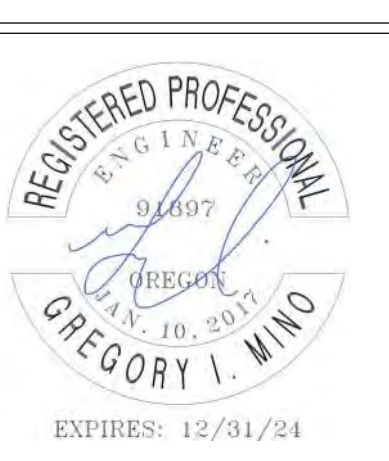
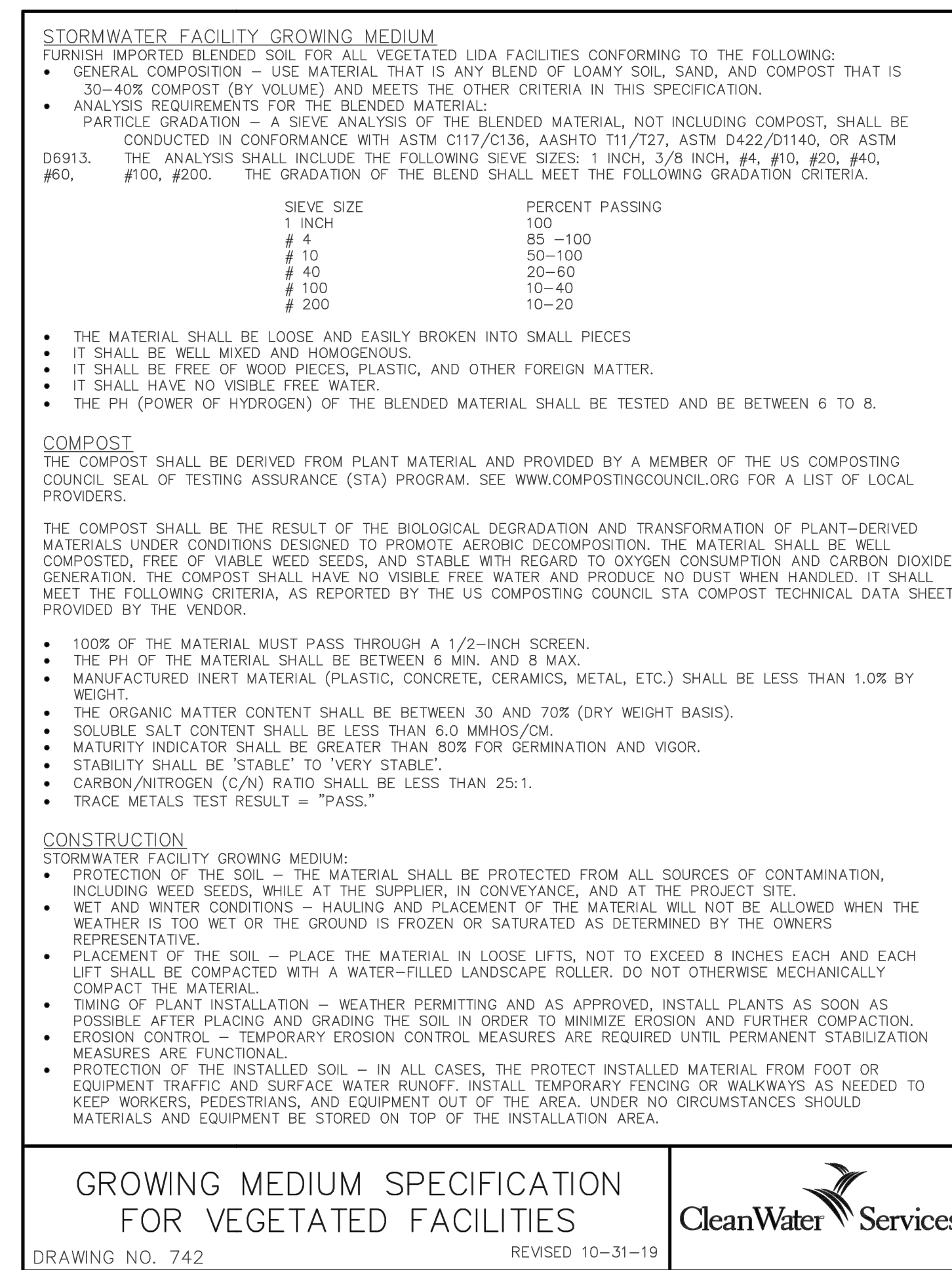
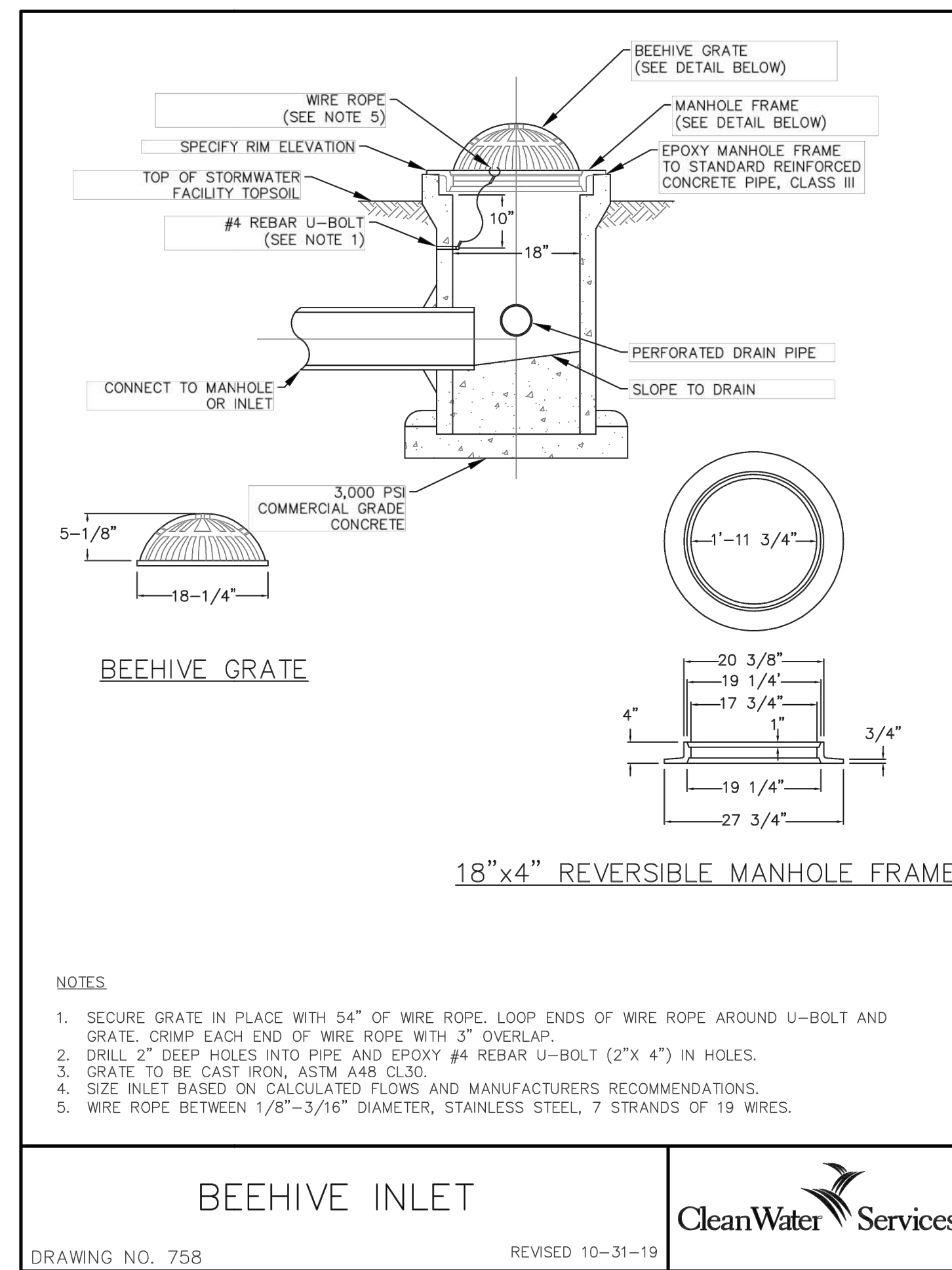
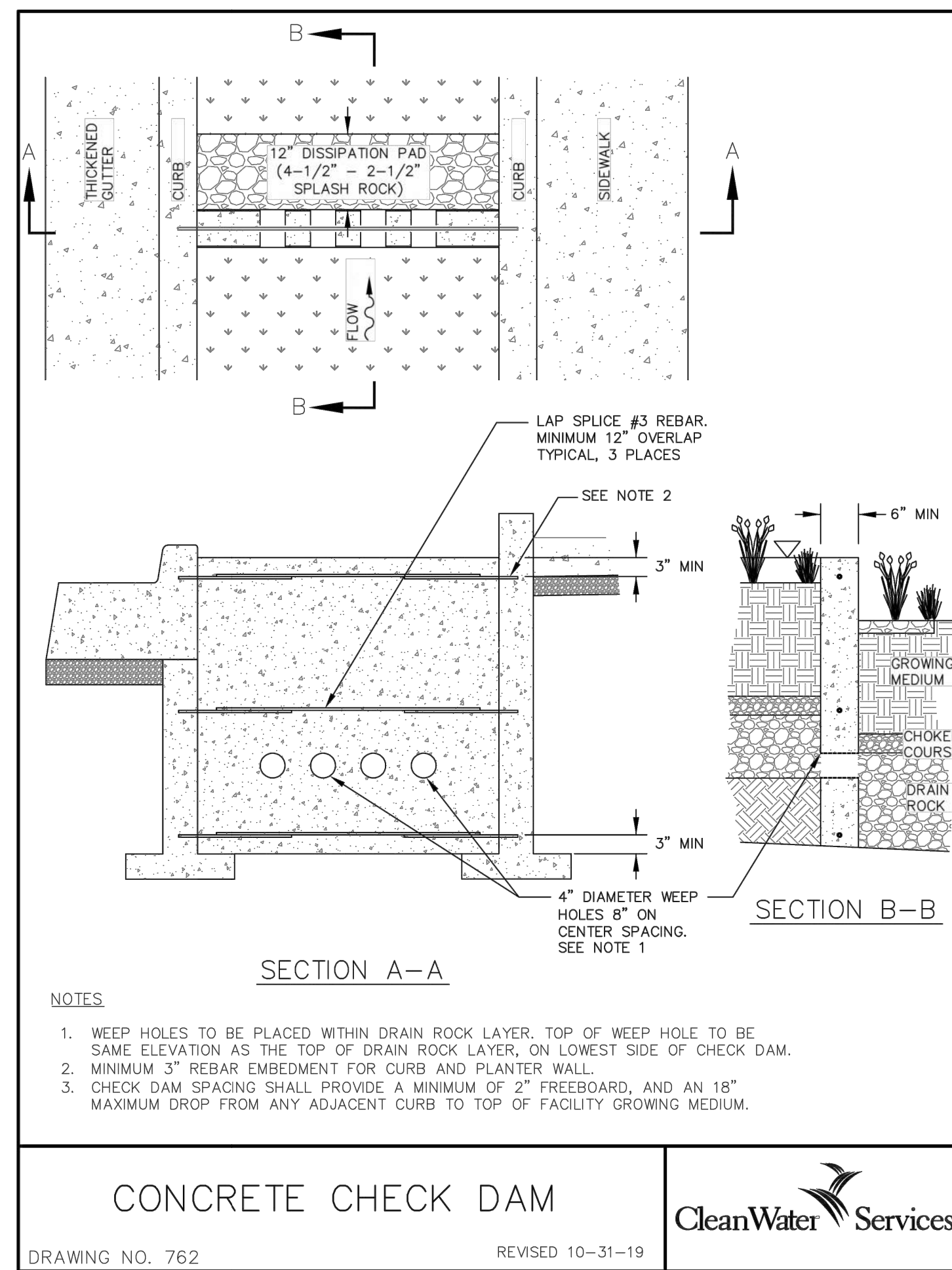
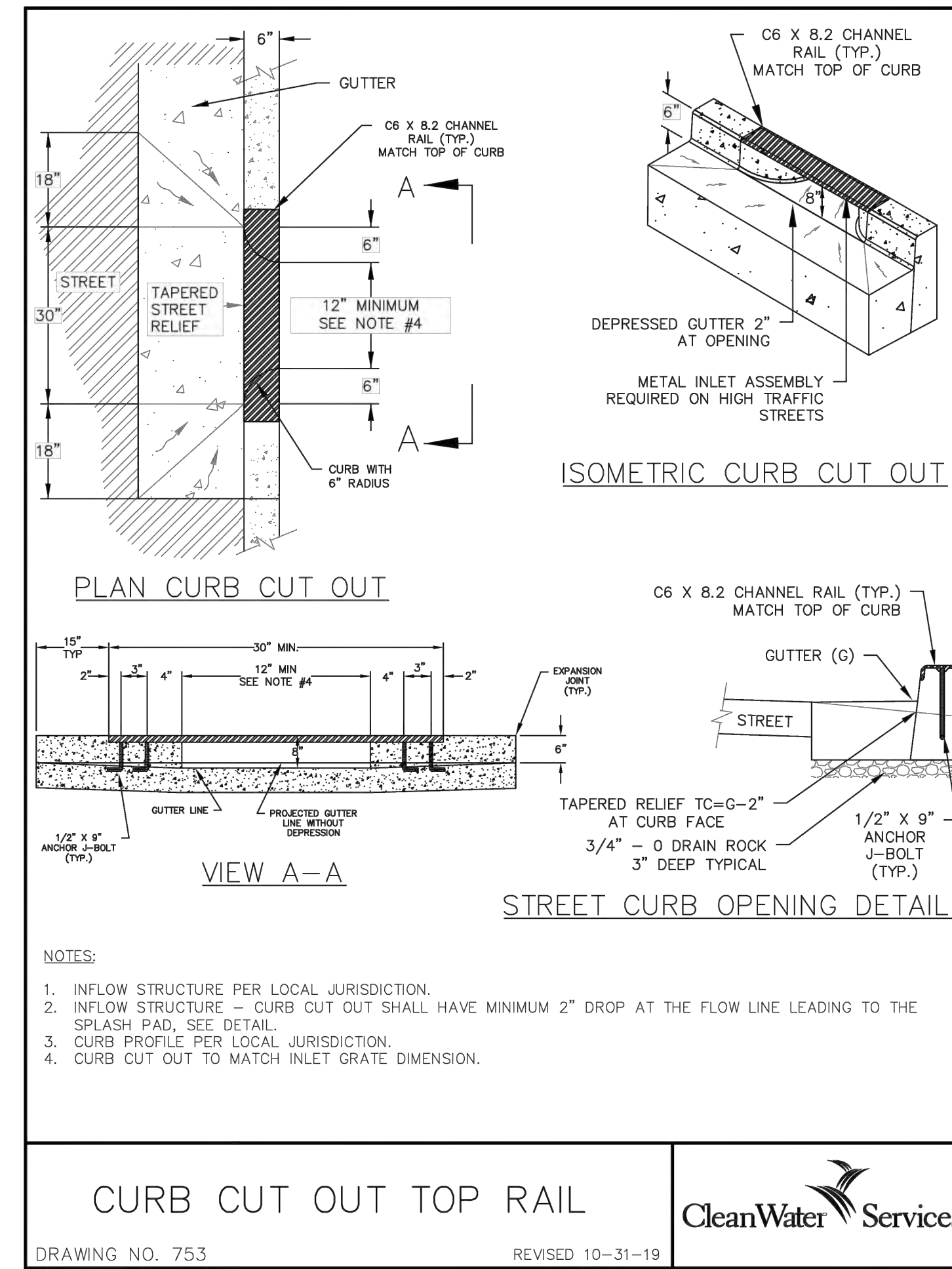
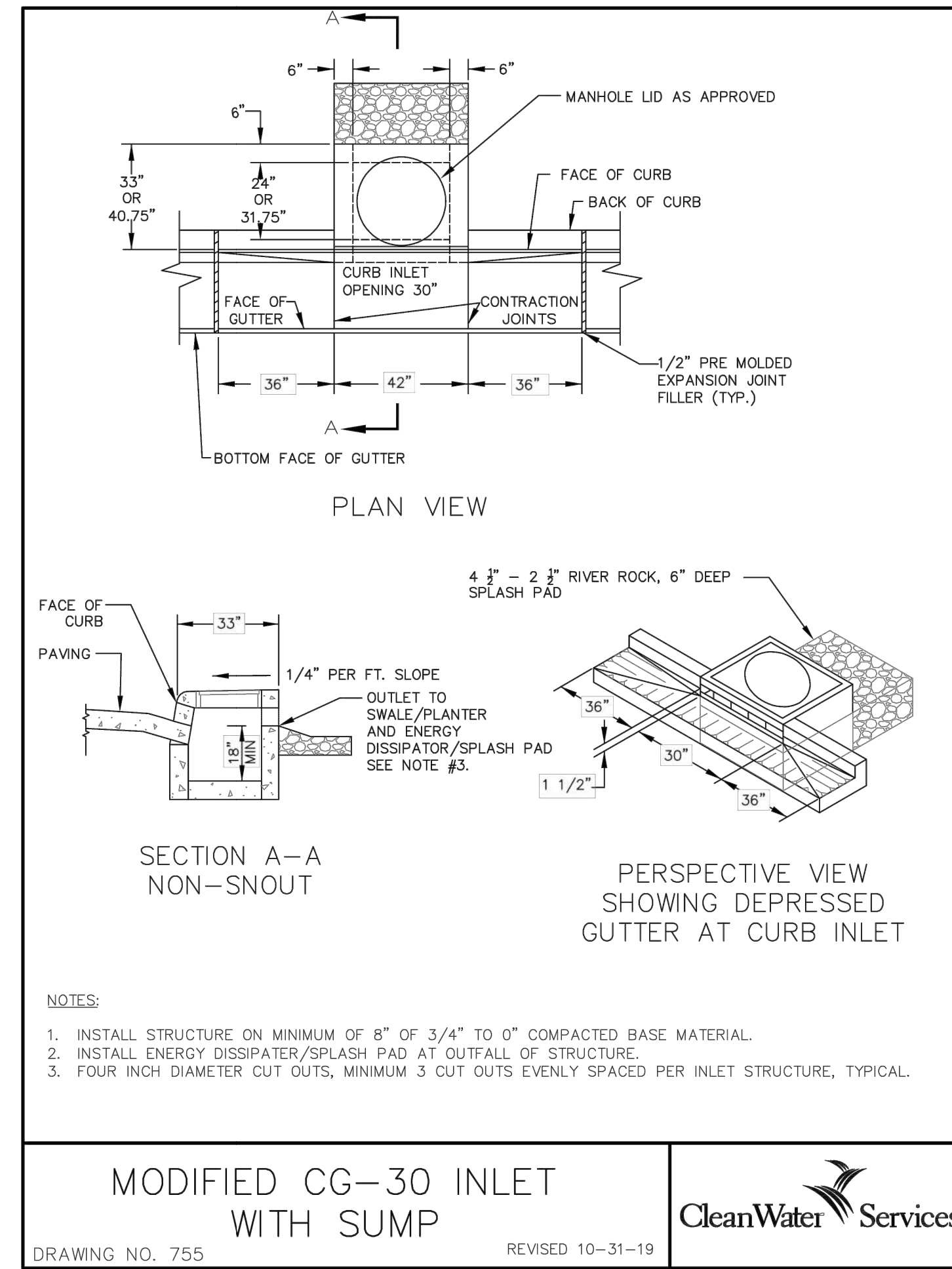
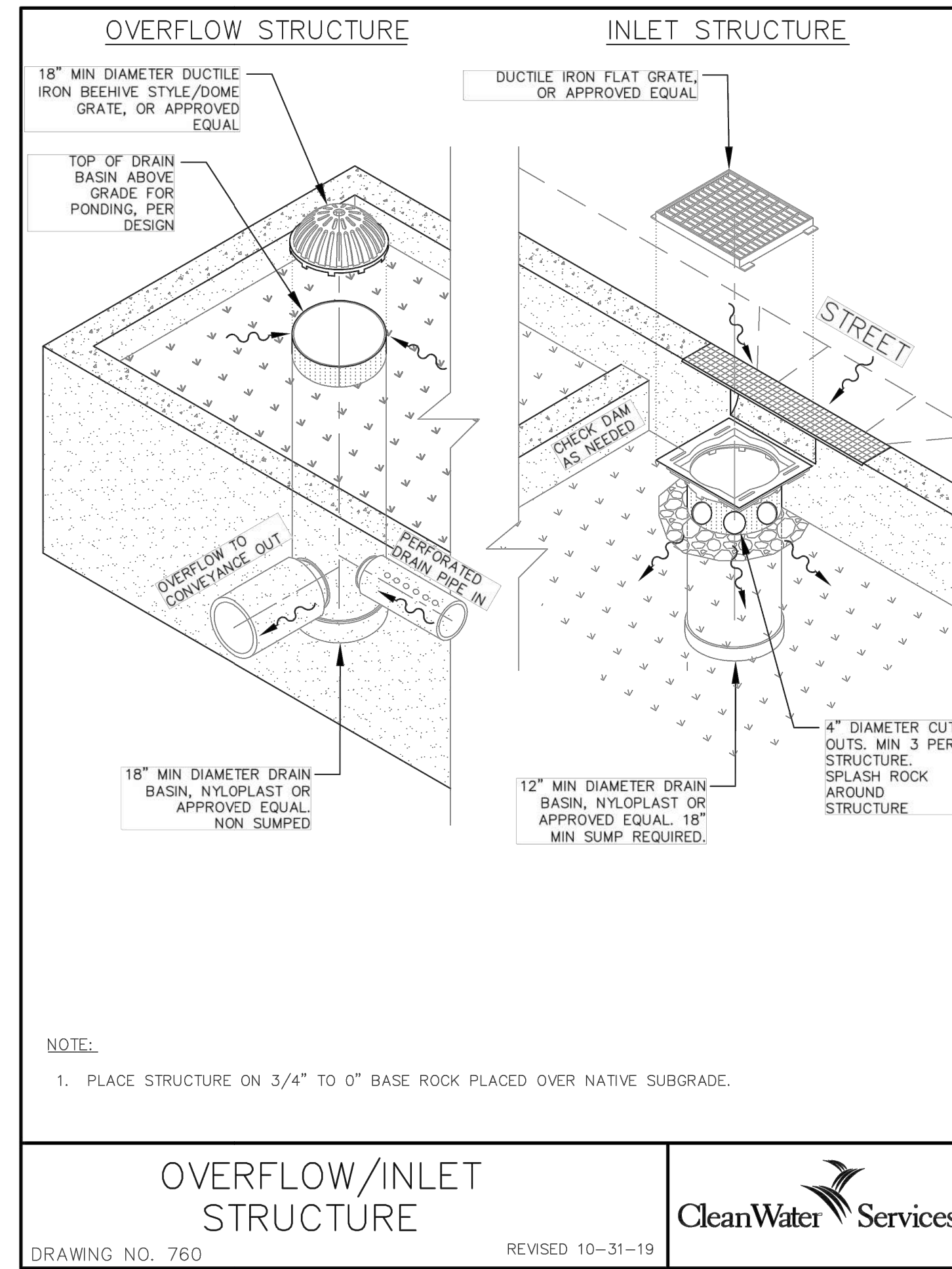
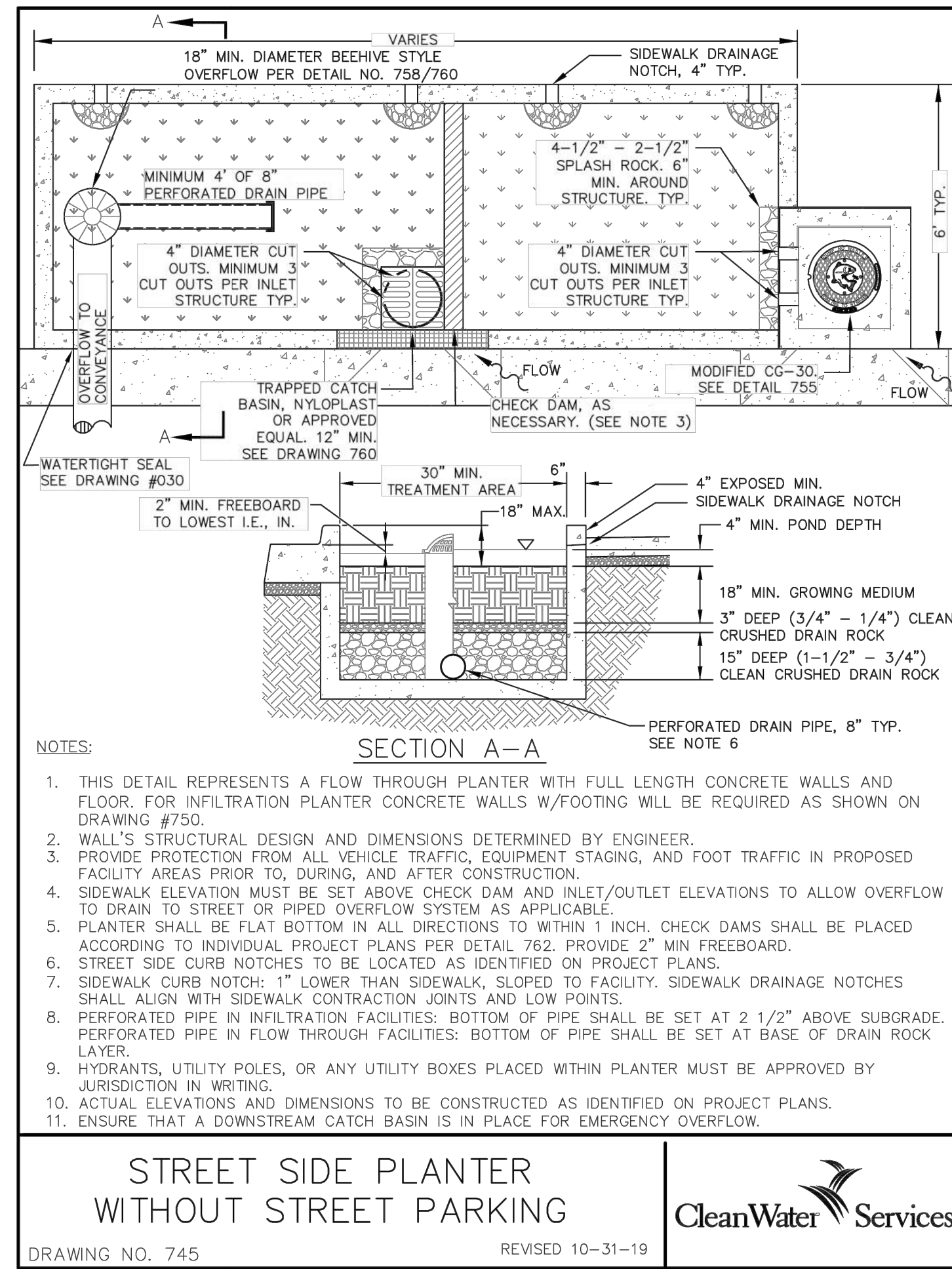
**R0.02**

JOB NO. **2200502.04**









© MACKENZIE 2025  
ALL RIGHTS RESERVED  
THESE DRAWINGS ARE THE PROPERTY OF  
MACKENZIE AND ARE NOT TO BE USED  
OR REPRODUCED IN ANY MANNER  
WITHOUT PRIOR WRITTEN PERMISSION

REVISION SCHEDULE		
Delta	Issued As	Issue Date

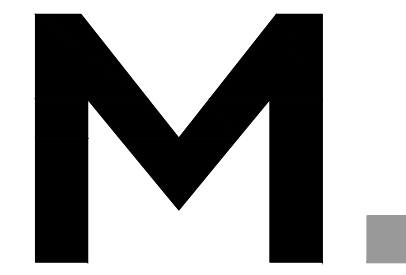
SHEET TITLE:  
**DETAILS**

DRAWN BY: CME  
CHECKED BY: GIM  
SHEET

**R0.04**

JOB NO. 2200502.04





Architecture • Interiors  
Planning • Engineering

Portland, OR  
503.224.9560  
Vancouver, WA  
360.695.7879  
Seattle, WA  
206.749.9993  
www.mcknize.com

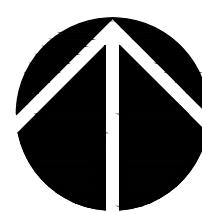
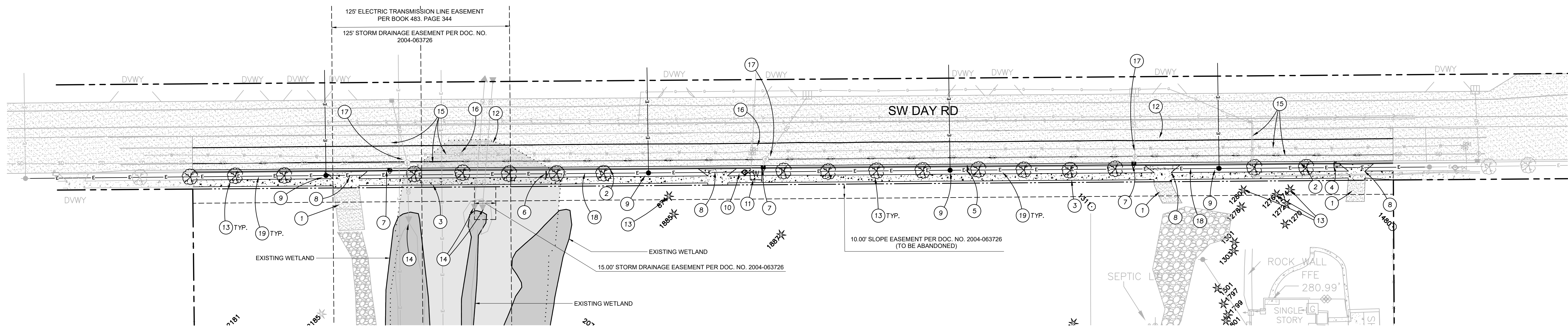
**MACKENZIE**  
DESIGN DRIVEN • CLIENT FOCUSED

Client

**DELTA LOGISTICS**  
9835 SW COMMERCE  
CIRCLE  
WILSONVILLE, OR  
97070

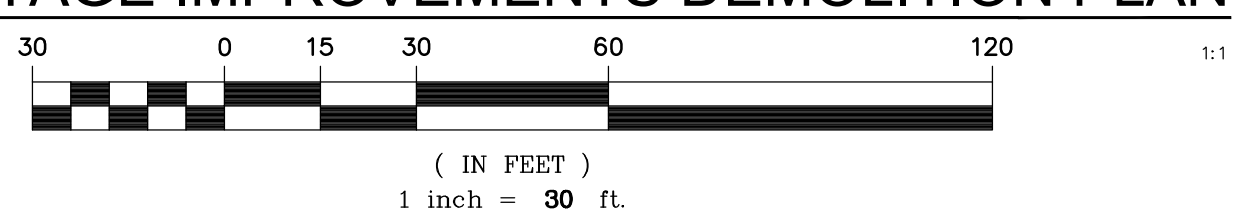
Project

**DELTA LOGISTICS  
SITE EXPANSION  
FRONTAGE  
IMPROVEMENTS**  
9710 SW DAY RD.  
CITY OF  
WILSONVILLE, OR



**1 FRONTAGE IMPROVEMENTS DEMOLITION PLAN**

R1.01



**KEY NOTES**

1. REMOVE EXISTING ASPHALT PER SECTION 1/R0.02
2. REMOVE EXISTING CURB AND GUTTER
3. REMOVE EXISTING SIDEWALK
4. REMOVE EXISTING MAILBOX
5. RELOCATE EXISTING "TRUCKS ENTERING ROADWAY" SIGN
6. RELOCATE EXISTING "40 SPEED" SIGN
7. REMOVE EXISTING CATCH BASIN
8. REMOVE EXISTING DRIVEWAY
9. RELOCATE EXISTING POWER POLE
10. RELOCATE FIRE HYDRANT
11. REMOVE WATER METER AND SERVICE LATERAL TO MAINLINE
12. GRIND ASPHALT PAVEMENT PER SECTION 1/R0.02
13. REMOVE EXISTING TREE
14. PROTECT EXISTING STORM CULVERTS
15. PROTECT EXISTING UTILITIES AT THE SURFACE WITHIN THE GRINDING AREA
16. PROTECT VALVES AND ADJUST TO GRADE
17. PROTECT EXISTING MANHOLES IN GRINDING AREA, ADJUST TO GRADE
18. RELOCATE EXISTING OVERHEAD POWER LINES
19. REMOVE EXISTING HEDGE



© MACKENZIE 2023  
ALL RIGHTS RESERVED  
THESE DRAWINGS ARE THE PROPERTY OF  
MACKENZIE AND ARE NOT TO BE USED  
OR REPRODUCED IN ANY MANNER,  
WITHOUT PRIOR WRITTEN PERMISSION

REVISION SCHEDULE		
Delta	Issued As	Issue Date

SHEET TITLE:  
**DEMOLITION  
PLAN**

DRAWN BY: CME

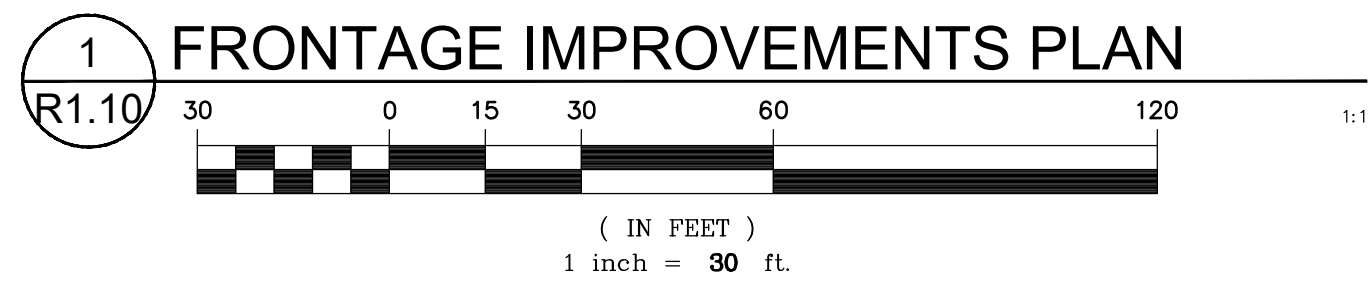
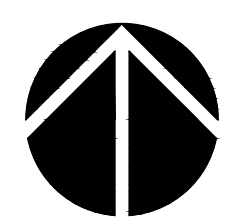
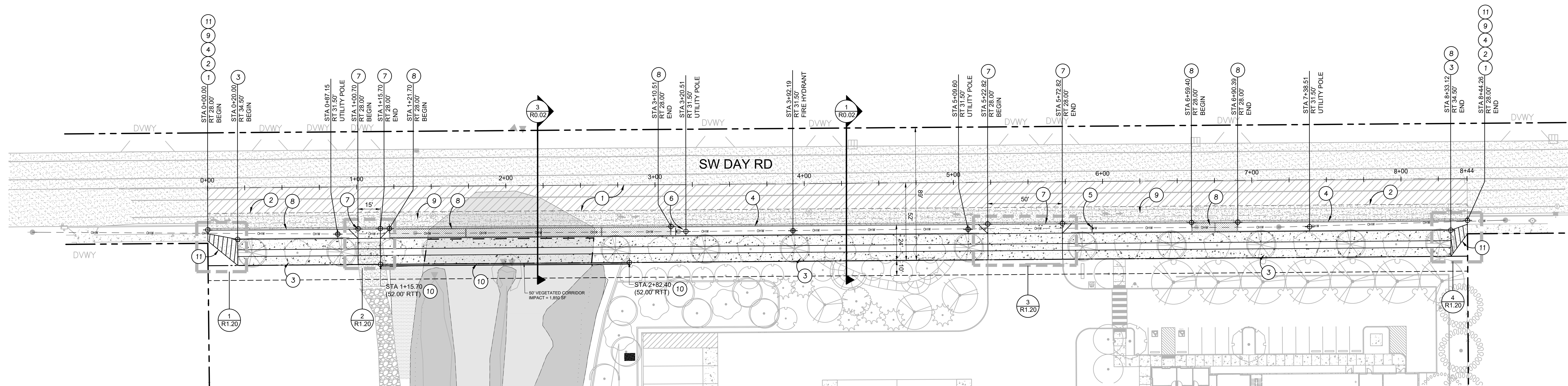
CHECKED BY: GIM

SHEET

**R1.01**

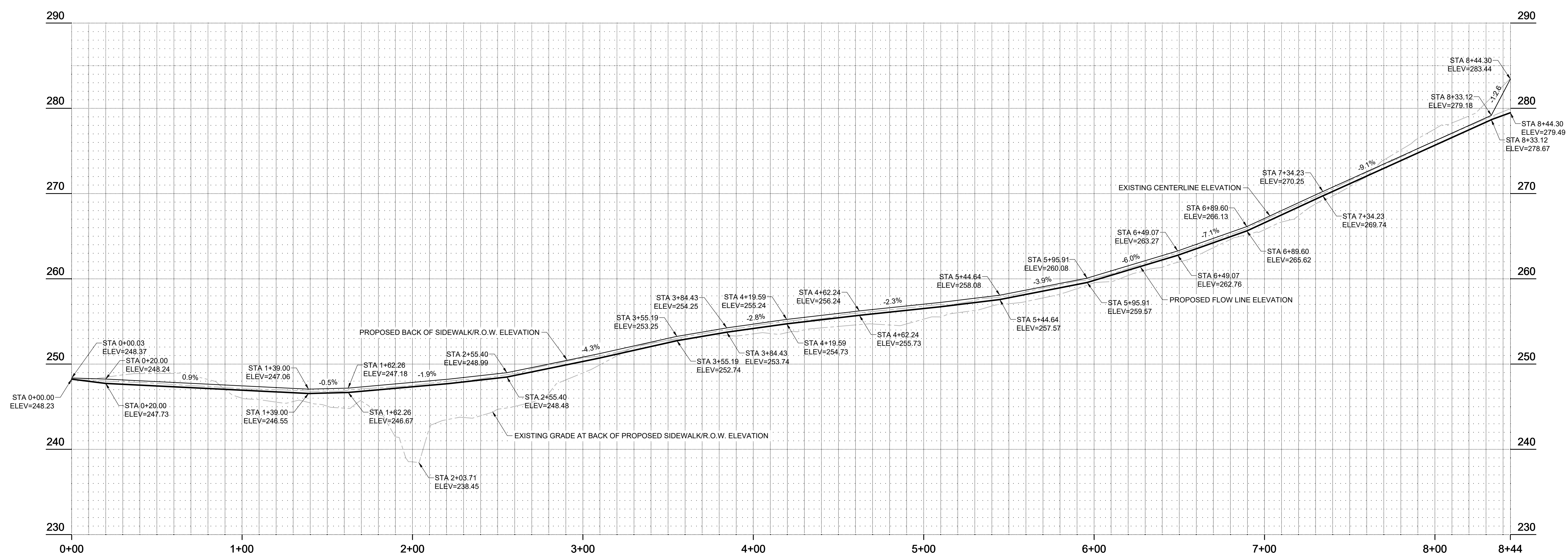
JOB NO. **2200502.04**



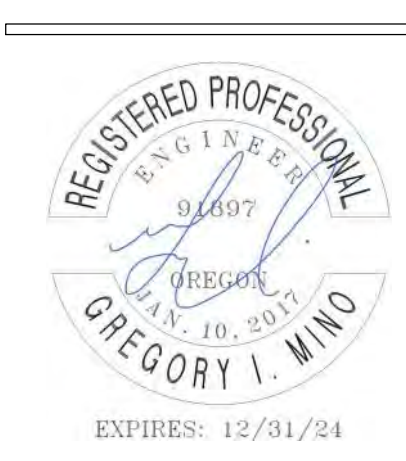


**KEY NOTES**

1. ASPHALT OVERLAY
2. SAWCUT EXISTING ASPHALT
3. SIDEWALK PER RD-1075/R0.03
4. VERTICAL CURB AND GUTTER PER RD-1060/R0.03
5. RELOCATED "TRUCKS ENTERING ROADWAY" SIGN
6. RELOCATED EXISTING "40 SPEED" SIGN
7. COMMERCIAL DRIVEWAY PER RD-1095/R0.03
8. STORMWATER PLANTER PER ST-6005/R0.03
9. CONCRETE PAVEMENT
10. RETAINING WALL
11. ASPHALT PAVING WITH CROSSWALK STRIPING FROM PROPOSED SIDEWALK TO EXISTING



**2 FRONTAGE IMPROVEMENTS PROFILE**  
HORIZONTAL SCALE: 1"=30'  
VERTICAL SCALE: 1"=5'



© MACKENZIE 2023  
ALL RIGHTS RESERVED  
THESE DRAWINGS ARE THE PROPERTY OF  
MACKENZIE AND ARE NOT TO BE USED  
OR REPRODUCED IN ANY MANNER  
WITHOUT PRIOR WRITTEN PERMISSION

REVISION SCHEDULE		
Delta	Issued As	Issue Date

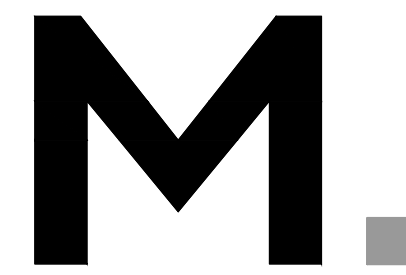
SHEET TITLE:  
**PLAN AND  
PROFILE**

DRAWN BY: CME  
CHECKED BY: GIM  
SHEET

**R1.10**

JOB NO. **2200502.04**





Architecture • Interiors  
Planning • Engineering

Portland, OR  
503.224.9560  
Vancouver, WA  
360.695.7879  
Seattle, WA  
206.749.9993

www.mcknzie.com

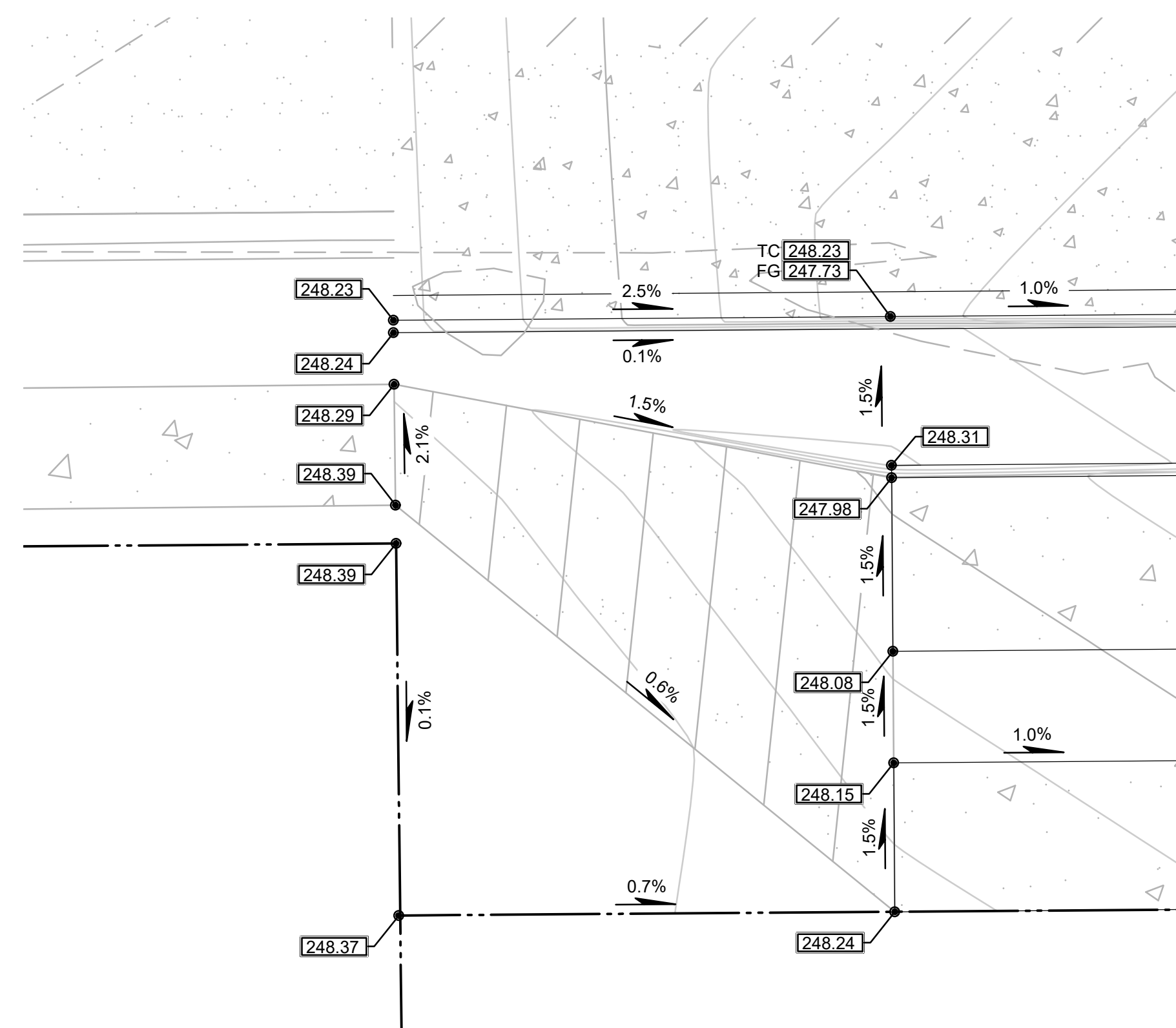
**MACKENZIE**  
DESIGN DRIVE • CLIENT FOCUS

Client

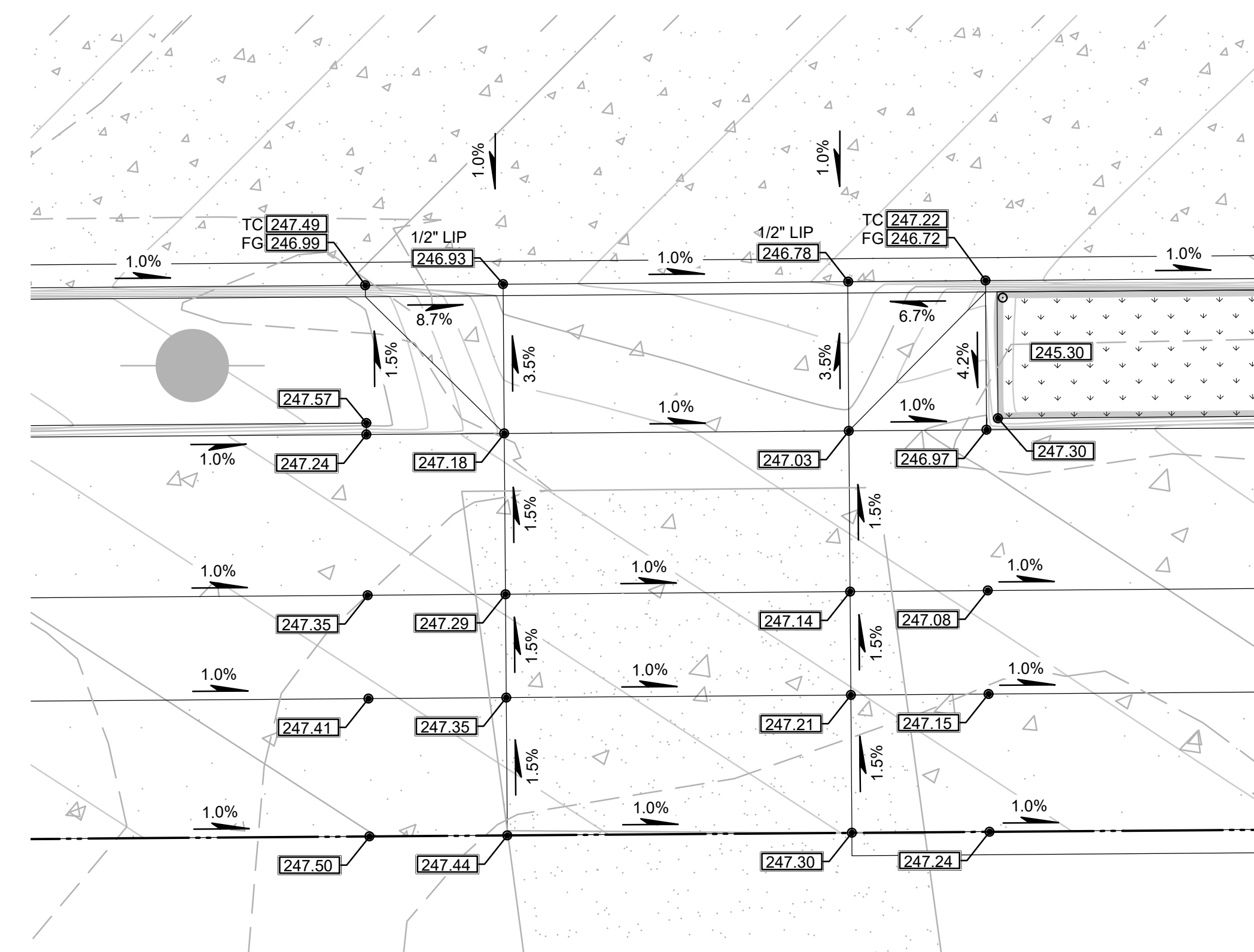
**DELTA LOGISTICS**  
9835 SW COMMERCE  
CIRCLE  
WILSONVILLE, OR  
97070

Project

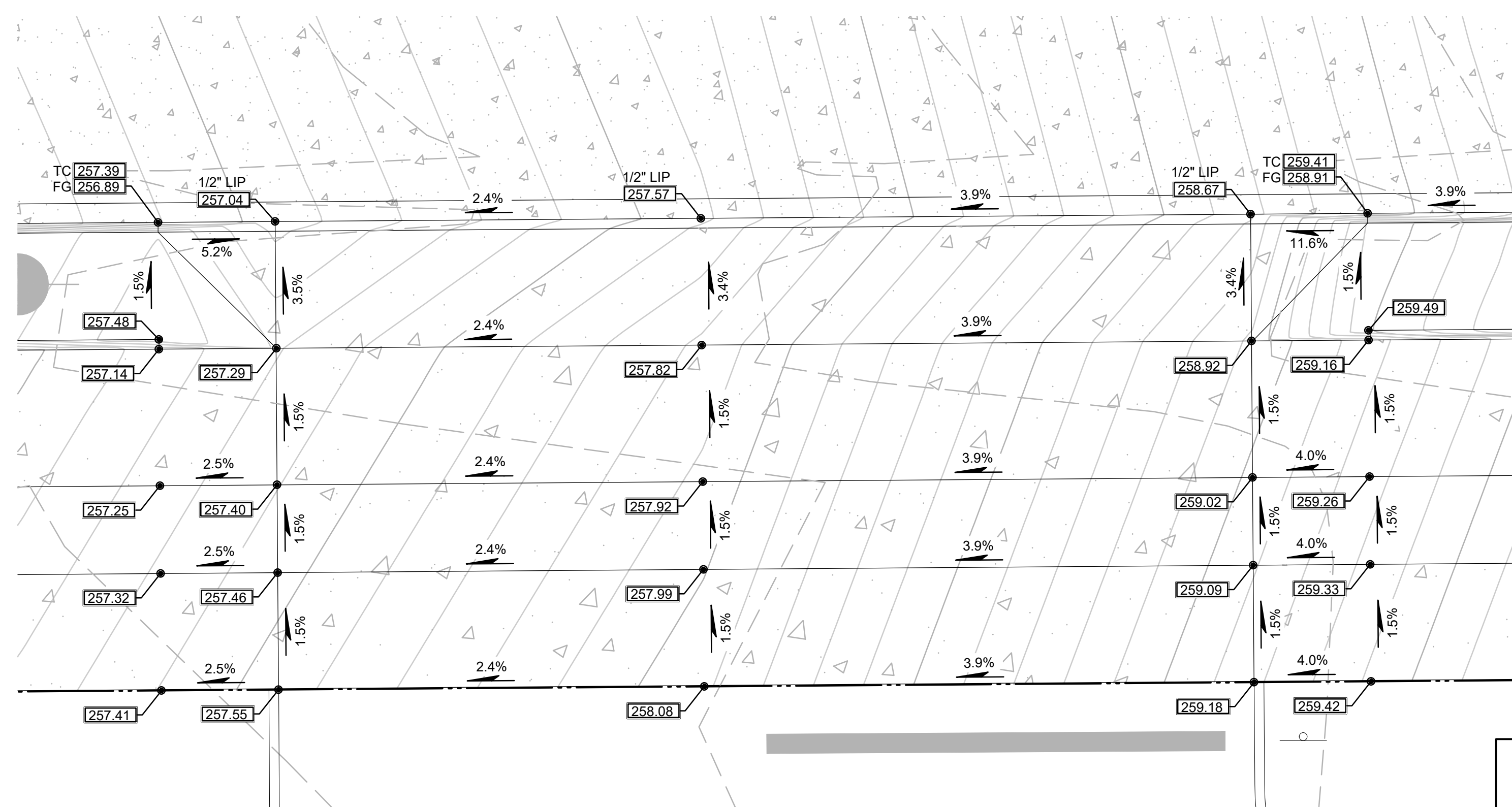
**DELTA LOGISTICS**  
SITE EXPANSION  
FRONTAGE  
IMPROVEMENTS  
9710 SW DAY RD.  
CITY OF  
WILSONVILLE, OR



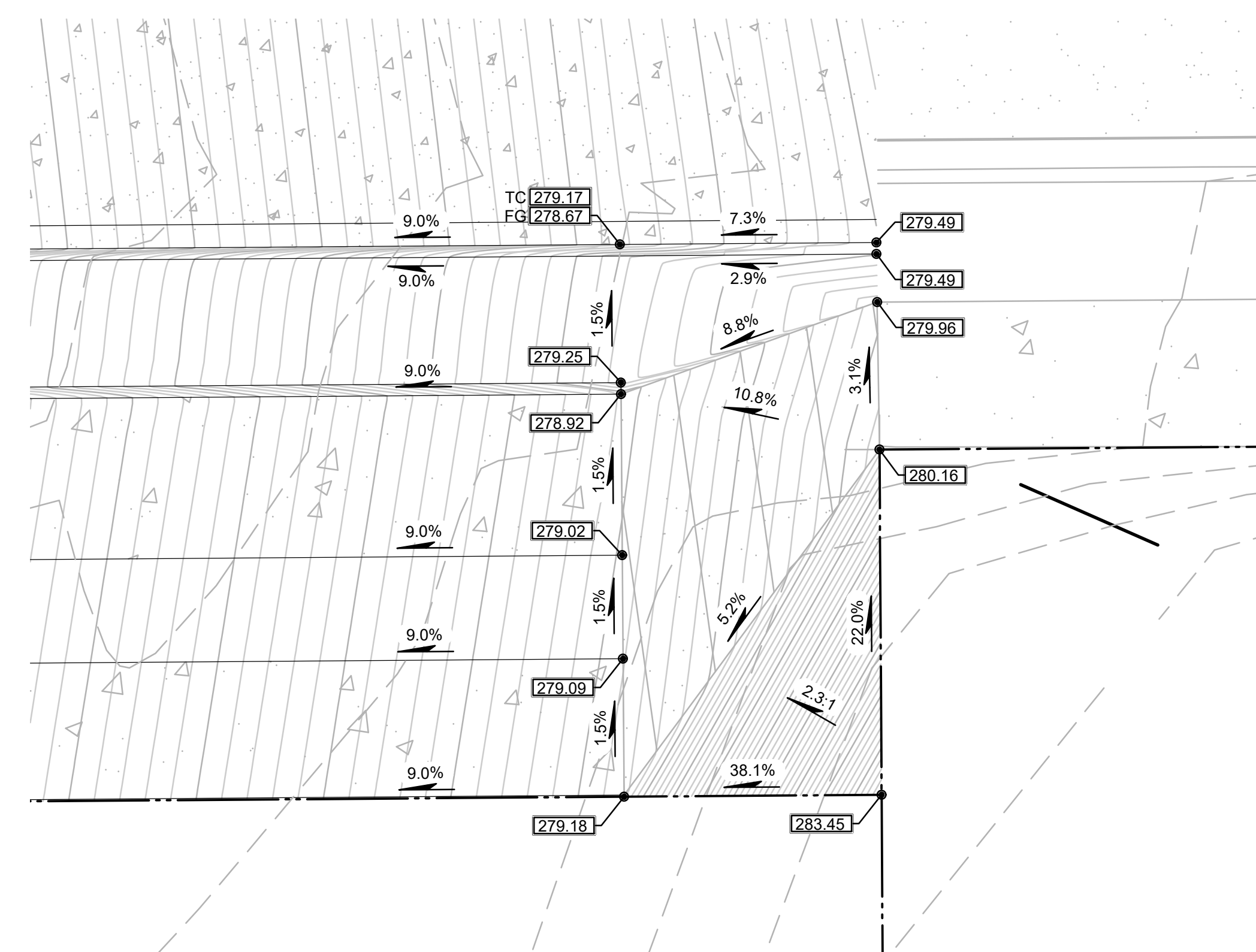
1 WESTERLY JOIN  
SCALE: 1"=5'



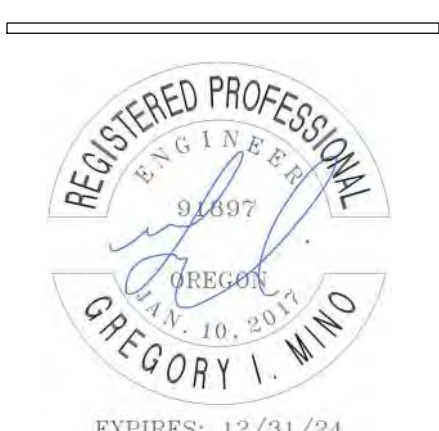
2 MAINTENANCE DRIVEWAY  
SCALE: 1"=5'



3 PROJECT DRIVEWAY  
SCALE: 1"=5'



4 EASTERLY JOIN  
SCALE: 1"=5'



REGISTERED PROFESSIONAL ENGINEER  
GREGORY I. MINO  
EXPIRES: 12/31/24

REVISION SCHEDULE

Delta	Issued As	Issue Date

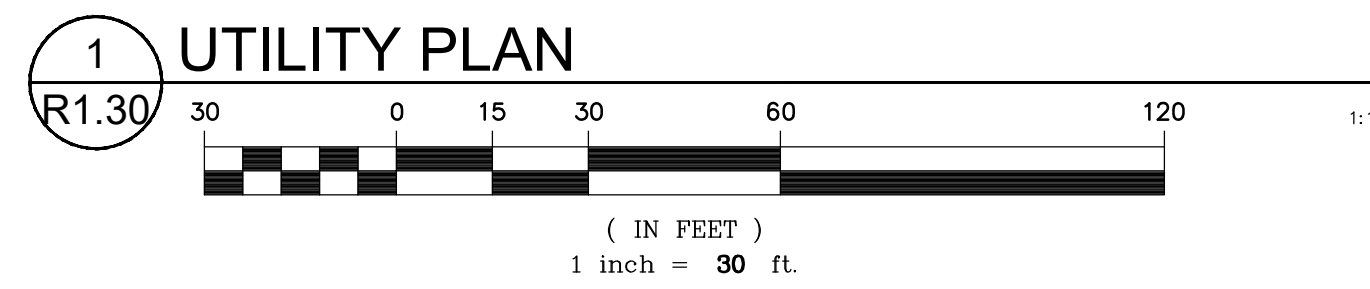
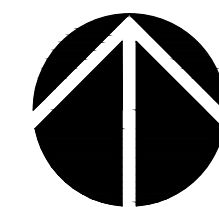
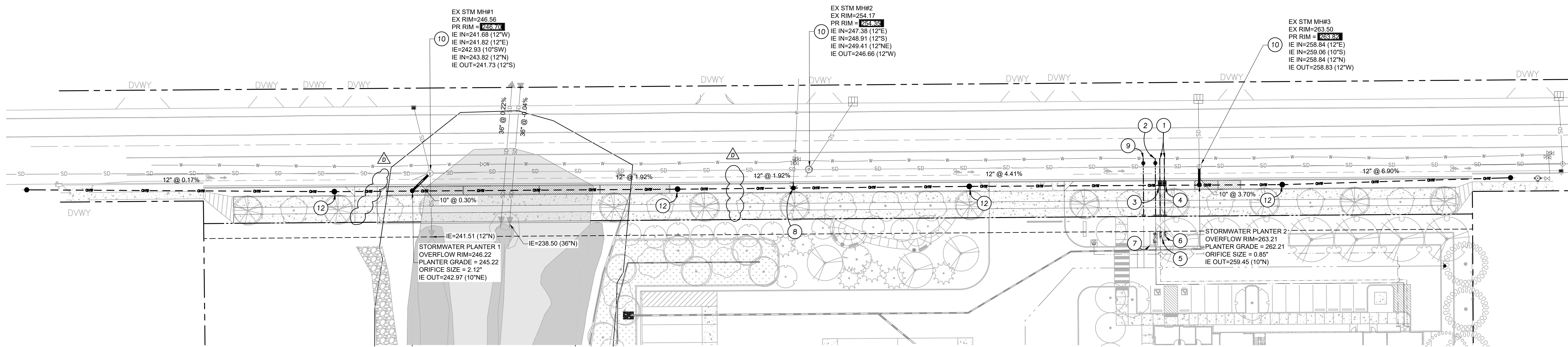
SHEET TITLE:  
**PLAN ENLARGEMENTS**

DRAWN BY: CME  
CHECKED BY: GIM  
SHEET

**R1.20**

JOB NO. 2200502.04





**KEY NOTES**

1. DOMESTIC/IRRIGATION WATER SERVICE CONNECTION PER DETAIL WT-3045/R0.03
2. 8" FIRE WATER SERVICE CONNECTION (TO PRIVATE FIRE SPRINKLERS)
3. 3" DOMESTIC WATER METER WITH 4" SERVICE LINE. SEE DETAIL WT-3045/R0.03
4. 1.5" IRRIGATION WATER METER WITH 2" SERVICE LINE. SEE DETAIL WT-3045/R0.03
5. DOMESTIC WATER BACKFLOW ASSEMBLY PER PRIVATE ONSITE PLANS
6. IRRIGATION BACKFLOW ASSEMBLY PER PRIVATE ONSITE PLANS
7. FIRE WATER BACKFLOW ASSEMBLY PER PRIVATE ONSITE PLANS
8. FIRE HYDRANT. SEE DETAIL WT-3050/R0.03
9. 12" FIRE WATER SERVICE CONNECTION (TO ONSITE PUBLIC HYDRANTS)
10. EXISTING STORM MANHOLE
11. NOT USED
12. RELOCATED UTILITY POLE WITH STREET LIGHT LUMINAIRE



© MACKENZIE 2023  
ALL RIGHTS RESERVED  
THESE DRAWINGS ARE THE PROPERTY OF  
MACKENZIE AND ARE NOT TO BE USED  
OR REPRODUCED IN ANY MANNER  
WITHOUT PRIOR WRITTEN PERMISSION

REVISION SCHEDULE		
Delta	Issued As	Issue Date
A	LAND USE	06/08/2022
B	REVISION	07/26/2022
C	REVISION	08/12/2022
D	REVISION	02/28/2023

SHEET TITLE:  
**UTILITY PLAN**

DRAWN BY: CME

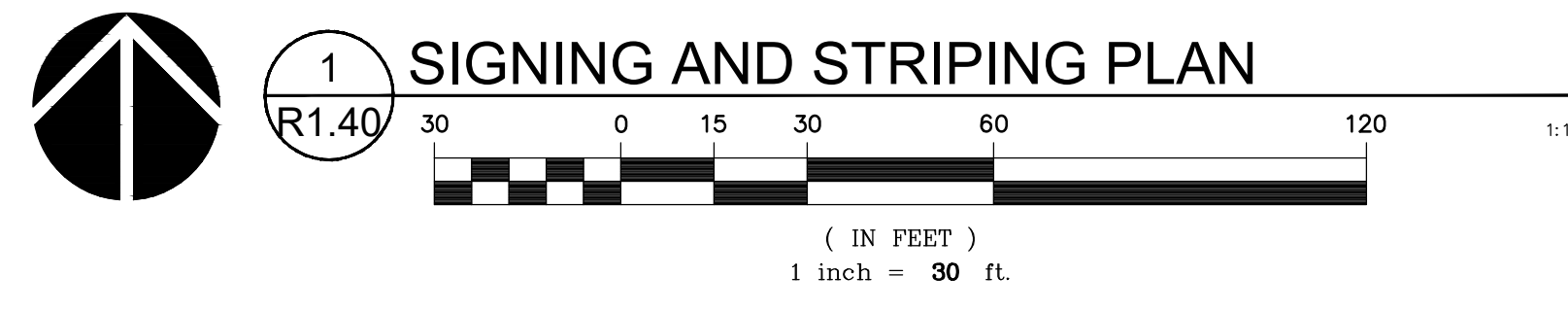
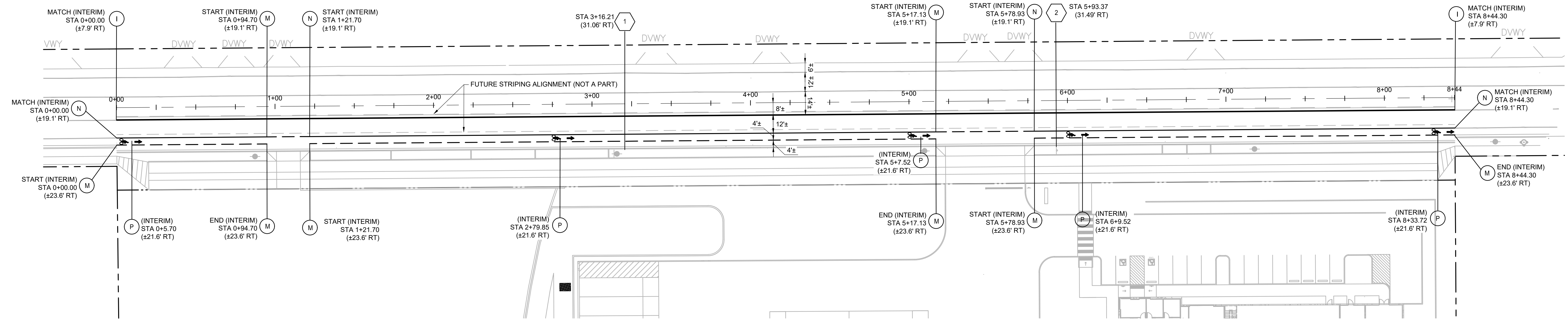
CHECKED BY: GIM

SHEET

**R1.30**

JOB NO. **2200502.04**





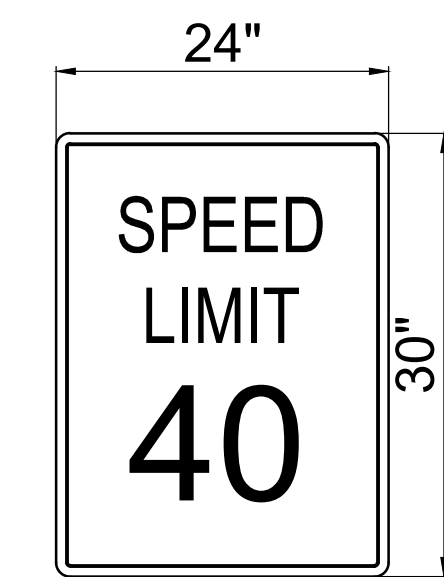
**SIGNING NOTES**

- REFER TO THE CITY OF WILSONVILLE DWG. RD-1245/SHEET R1.41
- POSTS SHALL BE INSTALLED WITH V-LOCK PER CITY OF WILSONVILLE DWG. RD-1250/SHEET R1.41

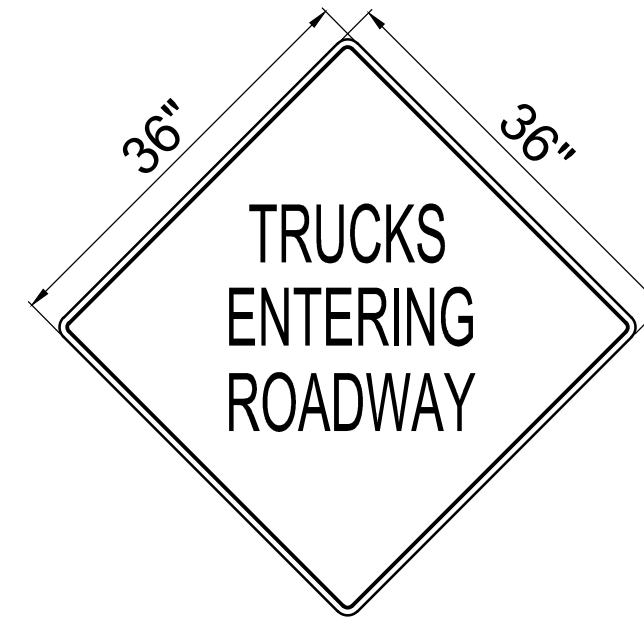
**STRIPING NOTES**

- REFER TO THE CITY OF WILSONVILLE PAVEMENT MARKING NOTES ON CITY OF WILSONVILLE STD. DWG. RD-1280/SHEET R1.41
- DO NOT PAINT CURBS MAINTAINED BY THE CITY OF WILSONVILLE. CONTRACTOR WILL BE RESPONSIBLE FOR THE REMOVAL OF ANY PAINT ON CITY CURBS.

SIGN & SUPPORT DATA TABLE															
SIGN NO. (N)	QTY. USED	SIGN DIMENSION		SIGN CODE		TYPE OF SUPPORT						SIGN LEGEND / OTHER REMARKS			
		WIDTH (IN)	HEIGHT (IN)	MUTCD	ODOT	MOUNT									
						SINGLE PIPE POST	EXISTING PIPE POST	UTILITY POLE	LIGHT POLE	SIGNAL POLE	MODIFIED BIKE RACK	CANTILEVER	BREAKAWAY DOME ASSEMBLY	BREAKAWAY ANCHOR ASSEMBLY	
1	1	24	30	R2-1 TYPE W1				X							[SPEED LIMIT 40] MOUNTED ON POLE
2	1	36	36			X									[TRUCKS ENTERING ROADWAY]



1 R2-1 TYPE W1 SIGN



2 "TRUCKS ENTERING ROADWAY" SIGN



© MACKENZIE 2023  
 ALL RIGHTS RESERVED  
 THESE DRAWINGS ARE THE PROPERTY OF  
 MACKENZIE AND ARE NOT TO BE USED  
 OR REPRODUCED IN ANY MANNER,  
 WITHOUT PRIOR WRITTEN PERMISSION

REVISION SCHEDULE		
Delta	Issued As	Issue Date

SHEET TITLE:  
**STRIPING AND SIGNAGE PLAN**

DRAWN BY: CME

CHECKED BY: GIM

SHEET

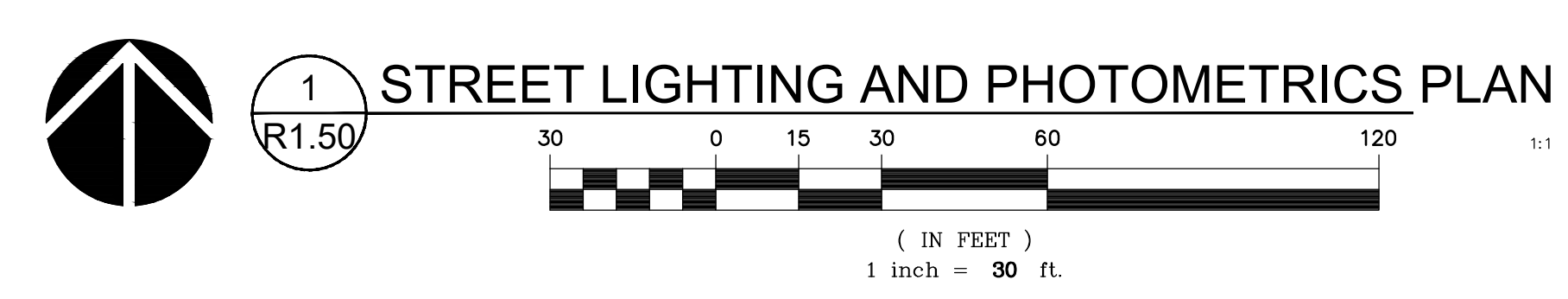
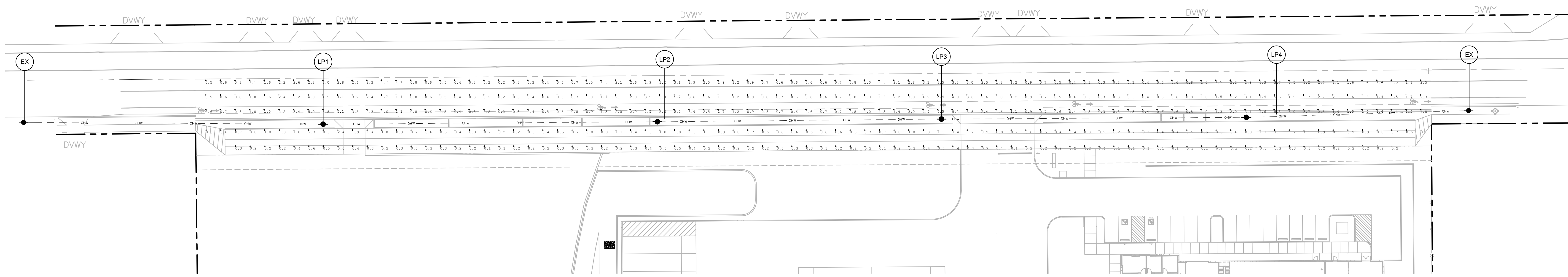
**R1.40**

JOB NO. **2200502.04**









**LIGHTING NOTES**

- ALL MATERIALS AND WORKMANSHIP CONFORM TO CITY OF WILSONVILLE AND PGE OPTION B SPECIFICATIONS. ALL MATERIALS AND INSTALLATIONS SHALL BE APPROVED BY WILSONVILLE AND PGE.
- CONTRACTOR SHALL COORDINATE INSTALLATION OF STREET LIGHTS WITH PGE AND CITY FORCES. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS. NOTIFY ENGINEER OF ANY DISCREPANCIES.
- CONTRACTOR SHALL SUBMIT A LIGHTING SUBMITTAL OF ALL LIGHTING EQUIPMENT TO THE CITY OF WILSONVILLE AND HAVE APPROVED PRIOR TO ORDERING.
- CONTACT PGE AT (503) 323-6700 TO BEGIN A WORK ORDER REQUEST. VERIFY PROPOSED LIGHT POLE LOCATION WITH PGE AND CITY PRIOR TO ORDERING AND INSTALLATION. NOTIFY ENGINEER OF ANY DISCREPANCIES.
- STREET LIGHTING SHALL BE PER PGE OPTION B; PGE MAINTAINS LUMINAIRES AND PROVIDES ELECTRICITY SERVICE TO LUMINAIRES THAT ARE PURCHASED AND OWNED BY THE OWNER AND INSTALLED ON UTILITY POLES.
- CONTRACTOR SHALL VERIFY LUMINAIRE CHARACTERISTICS AND CATALOG NUMBER, INCLUDING BUT NOT LIMITED TO EXTERIOR HOUSING COLOR, WITH PGE AND CITY FORCES PRIOR TO ORDERING.
- WIRES TO BE PROVIDED AND PULLED BY PGE.
- CONTRACTOR IS RESPONSIBLE FOR THE CORRECT OPERATION OF THE STREET LIGHT SYSTEM FOR THE FIRST YEAR AFTER BEING ENERGIZED BY PGE. THE CONTRACTOR IS ALSO RESPONSIBLE FOR ANY POLES WHICH GO OUT OF PLUMB WITHIN THE FIRST YEAR. DURING THIS ACCEPTANCE PERIOD ANY REPAIRS OR POLE STRAIGHTENING PERFORMED ON THE INSTALLED SYSTEM BY PGE WILL BE BILLED TO THE DEVELOPER.

**STREET LIGHTING EQUIPMENT**

- LUMINAIRES SHALL BE:  
LUM 1: LEOTEK GRAY LED:  
GCL-80G-MV-WW-3R-GR-610-PCR7RWGWLFDPCGE

**LIGHTING LEGEND**

- EXISTING LIGHTPOLE
- INSTALL LUMINAIRE POLE (30' MOUNTING HEIGHT) SEE FOOTING DETAIL RD-1335
- POLE NUMBER (N), SEE POLE INFORMATION TABLE.

**ILLUMINATION DATA**

	SW DAY RD - COLLECTOR ROAD		
	AVERAGE (fc)	MINIMUM (fc)	AVERAGE/MINIMUM
DESIGNED	1.7	.2	8.7:1
RECOMMENDED MINIMUM VALUE	0.6	-	4.0:1

	SIDEWALK ALONG SW DAY RD - COLLECTOR ROAD		
	AVERAGE (fc)	MINIMUM (fc)	AVERAGE/MINIMUM
DESIGNED	0.3	0.1	2.5:1
RECOMMENDED MINIMUM VALUE	0.6	-	4.0:1

- NOTES:
- A LIGHT LOSS FACTOR OF 0.85 WAS USED FOR ALL LUMINAIRES
  - STREET LIGHTING WAS DESIGNED IN ACCORDANCE WITH THE MOST CURRENT AMERICAN STANDARD PRACTICE FOR ROADWAY LIGHTING (RP-8-14) PER CITY OF WILSONVILLE PUBLIC WORKS STANDARD
  - DESIGN ASSUMES A LOW PEDESTRIANS TRAFFIC AREA AND A R2/R3 PAVEMENT CLASSIFICATION



MACKENZIE 2023  
ALL RIGHTS RESERVED  
THESE DRAWINGS ARE THE PROPERTY OF  
MACKENZIE AND ARE NOT TO BE USED  
OR REPRODUCED IN ANY MANNER  
WITHOUT PRIOR WRITTEN PERMISSION

REVISION SCHEDULE		
Delta	Issued As	Issue Date

SHEET TITLE:  
**STREET  
LIGHTING AND  
PHOTOMETRICS  
PLAN**

DRAWN BY: CME  
CHECKED BY: GIM  
SHEET

**R1.50**

JOB NO. **2200502.04**



**ZONING COMPLIANCE LEGEND**

	<b>PRIMARY TREE</b> 2" CAL. MIN. PSEUDOTSUGA MENZIESII / DOUGLAS FIR QUERCUS GARRIANA / OREGON WHITE OAK TILIA PLICATA / WESTERN RED CEDAR ZELKOVA SERRATA "GREEN VASE" / GREEN VASE SAWLEAF ZELKOVA
	<b>SECONDARY TREE</b> 1.75" - 2" CAL. MIN. CALOCORINUS DECURRENS / INCENSE CEDAR TILIA TOMENTOSA "STERLING" / STERLING SILVER LINDEN ULMUS X "FRONTIER" / FRONTIER ELM
	<b>ACCENT TREE</b> 1.75" CAL. MIN. ACER RUBRUM "BOMHALL" / BOMHALL RED MAPLE AMELANCHIER ALNIFOLIA "AUTUMN BRILLIANCE" / SERVICEBERRY SINGLE STEM CORNUS KOUSA X NUTTALLII "NM4-43" / STARLIGHT KOUSA DOGWOOD
	<b>STREET TREE</b> 3" CAL. MIN. ACER GRANDIDENTATUS "SCHMIDT" TM / ROCKY MOUNTAIN GLOW MAPLE CORNUS KOUSA "MILKY WAY" / MILKY WAY KOUSA DOGWOOD PARROTIA PERSICA "INGE'S RUBY VASE" TM / RUBY VASE PERSIAN PARROTIA
	<b>STORMWATER TREE</b> CORNUS X "EDDIE'S WHITE WONDER" / EDDIE'S WHITE WONDER DOGWOOD FRAXINUS LAETOLIA / OREGON ASH PSEUDOTSUGA MENZIESII / DOUGLAS FIR RHAMNUS PURSHIANA / CASCARA BUCKTHORN PINUS FONSBERGII VAR. BENTHAMIANA / WILLAMETTE VALLEY PONDOSA PINE
	<b>HIGH SCREEN STANDARD</b>
	<b>LOW SCREEN STANDARD</b>
	<b>PARKING LANDSCAPE</b>
	<b>STORMWATER</b>
	<b>GEN. LANDSCAPE REQ.</b>
	<b>STREET PLANTING</b>
	<b>WAYSIDE</b>
	<b>VEGETATION PROTECTION AREA</b>

**ZONING COMPLIANCE**

JURISDICTION	WILSONVILLE, OR
STORMWATER	CITY OF WILSONVILLE
<b>SECTION 4.176(03)</b>	
B. OFF-STREET PARKING LANDSCAPE REQS	
PARKING AREAS OVER 600 SF, EXCLUDING ACCESS AREAS, LOADING OR DELIVERY AREAS, SHALL BE LANDSCAPED TO 10% MIN. 1 TREE PER 8 STALLS AND ISLANDS SHALL BE AT LEAST 8 FT WIDE.	
TOTAL PARKING AREA	19,884 SF
PARKING LANDSCAPE (10% MIN)	3,160 SF (15.9%)
STALLS	41 STALLS
TREES (1 PER 8 STALLS = 6 TREES)	6 TREES
ISLANDS (8 FT WIDTH MIN)	8 WIDTH
<b>SECTION 4.176(02)</b>	
C. GENERAL LANDSCAPING STANDARD	
WHERE LANDSCAPE IS GREATER THAN 30 FT DEEP, PROVIDE 1 TREE PER 800 SF AND 2 HIGH SHRUBS OR 3 LOW SHRUBS PER 400 SF.	
SW DAY ROAD EAST PARKING LOT PERIMETER LANDSCAPE AREA	4,770 SF
TREES (1 PER 800 SF = 6 TREES)	8 TREES
LOW SHRUBS (3 PER 400 SF = 36 SHRUBS)	151 SHRUBS
SW DAY ROAD PERIMETER LANDSCAPE AREA	1,112 SF
TREES (1 PER 800 SF = 2 TREES)	7 TREES
LOW SHRUBS (3 PER 400 SF = 15 SHRUBS)	88 SHRUBS
SOUTH SIDE OF LOADING DOCKS LANDSCAPE AREA	1,906 SF
TREES (1 PER 800 SF = 3 TREES)	2 TREES
LOW SHRUBS (3 PER 400 SF = 15 SHRUBS)	21 SHRUBS
<b>D. LOW SCREEN LANDSCAPING STANDARD</b>	
ONE TREE PER 30 LF, 3-FT HT EVERGREEN HEDGE, AND GROUND COVER TO FULL COVERAGE. A 3-FT HIGH MASONRY WALL OR BERM MAY REPLACE THE SHRUBS.	
EAST AND SOUTH PERIMETER PERIMETER	986 LF
TREES (1 PER 30 LF = 33 TREES)	40 TREES
SHRUBS (EVERGREEN)	3 FT HT
<b>E. LOW BERM LANDSCAPING STANDARD</b>	
STANDARD NOT FEASIBLE ALONG SW DAY ROAD.	
<b>F. HIGH SCREEN LANDSCAPING STANDARD</b>	
WAYSIDE PERIMETER	
TREES (1 PER 30 LF = 5 TREES)	127 LF
HEDGE (EVERGREEN)	12 TREES
GROUND COVER	6 FT HT
LOADING DOCKS	
TREES (1 PER 30 LF = 2 TREES)	42 LF
ARCHITECTURAL SCREEN WALL	3 TREES
GROUND COVER	16 FT H X 32 FT W
TRASH ENCLOSURE	
TREES (1 PER 30 LF = 1 TREE)	20 LF
HEDGE (EVERGREEN)	1 TREE
GROUND COVER	6 FT HT
TOTAL DEVELOPMENT AREA LANDSCAPE (15% MIN)	
LANDSCAPE AREA	336,851 SF (7.7 AC)
TOTAL DEVELOPMENT AREA LANDSCAPE (15% MIN)	117,433 SF (34.8%)
<b>SECTION 4.176(04)</b>	
D. BUFFERING AND SCREENING	
SITE ZONING	INDUSTRIAL
ADJACENT ZONING	INDUSTRIAL
OUTDOOR STORAGE	NONE
SITE ZONING	INDUSTRIAL
FENCE	NONE
ADDITIONAL SCREENING	N/A
<b>SECTION 4.176(06)</b>	
A. SHRUBS AND GROUND COVER	
SHRUBS (2 GAL. MIN.)	2 GAL. MIN
9 YEAR GROUND COVER (80% MIN)	80% MIN
TURF OR LAWN (10% MAX)	0%
B. TREES	
DECIDUOUS (2-INCH CAL., 10 FT HT MIN)	2-INCH CAL., 10 FT HT
EVERGREEN (12 FT HT MIN)	12 FT HT
C. LARGER PLANT MATERIAL	
PROPOSED DEVELOPMENT IS GREATER THAN 50,000 SF IN FOOTPRINT AREA / LARGER THAN 24- FEET IN HT AT MATURITY TREES WILL BE AT LEAST 50% THE HT OF THE BUILDING. DECIDUOUS TREES SHALL BE AT LEAST 10- FEET TALL AND 2-INCH CALIPER. EVERGREEN TREES MUST BE AT LEAST 12- FEET IN HT. LARGER PLANT MATERIAL HAS BEEN PROVIDED ALONG THE FRONTAGE.	
BUILDING HT	40 FT
SHORTEST MATURE TREE HT (50% OF BLDG HT MIN.)	40 FT (100%)
DECIDUOUS TREES (10 FT HT, 2-INCH CAL AT INSTALL)	YES
EVERGREEN TREES (12 FT HT AT INSTALL)	YES
D. STREET TREES	
ARTERIAL TREES SHALL BE 3-INCH CALIPER. STREET TREES SPECIES IS SHORT ENOUGH FOR OVERHEAD ELECTRICAL WIRES AND TOLERANT OF WET SOIL.	
E. PLANT SPECIES	
THE LANDSCAPE CONSISTS OF EXISTING LANDSCAPING AND/OR NATIVE VEGETATION TO BE PROTECTED AND MAINTAINED DURING CONSTRUCTION AND NATIVE AND DROUGHT TOLERANT PLANT MATERIAL. PLANT MATERIAL PROVIDED HAS BEEN CROSS-REFERENCED WITH THE CITY FTS LIST OF PROHIBITED PLANT MATERIALS.	
F. TREE CREDITS	
SEE TREE PLAN SHEET L0.03. NONE REQUESTED.	
<b>SECTION 4.176(07)</b>	
INSTALLATION AND MAINTENANCE	
SEE PLANTING NOTES THIS SHEET. PLANT MATERIAL REQUIRED BY CODE SHALL BE CONTINUOUSLY MAINTAINED BY OWNER AND REPLACED IN KIND WITHIN ONE GROWN SEASON IF DEAD.	
IRRIGATION	
SEE IRRIGATION NOTES THIS SHEET. PERMANENT SYSTEM TO BE DESIGN BUILD.	
<b>SECTION 4.176(09)</b>	
PLANT MATERIAL LIST	
SEE PLANT SCHEDULE ON SHEET L0.02.	
CONDITION OF EXISTING PLANTINGS	
ALL VEGETATION IS PROPOSED FOR REMOVAL. OTHER THAN THAT WITHIN THE SIGNIFICANT RESOURCE OVERLAY ZONE. SEE ARBORIST REPORT FOR CONDITION OF EXISTING TREES TO REMAIN.	
WATER USAGE	
WATER USE CATEGORY	C
WAYSIDE AREA (8 TO 13 ACRES)	NATIVE/DROUGHT TOLERANT
COFFEE CREEK DESIGN GUIDELINES	
WAYSIDE ON ADDRESSING STREET	736 SF PROVIDED
WAYSIDE AREA (8 TO 13 ACRES, 600 SF MIN.)	
BUFFER DEPTH ON 3 SIDES (20 FT MIN)	20-30 LF PROVIDED
AMENITIES	
SEATING (1 LF PER 40 SF OF WAYSIDE = 18 LF)	18 LF SEATING
PAVED WALKING SURFACE (5 FT MIN)	7 FT WIDTH

**SHEET INDEX**

L0.01	GENERAL LANDSCAPE NOTES
L0.02	PLANT SCHEDULES AND STORMWATER NOTES
L0.03	TREE REMOVAL PLAN
L0.04	TREE MITIGATION PLAN
L0.05	VEGETATED CORRIDOR ENHANCEMENT PLANTING PLAN
L1.10	PLANTING PLAN - WEST
L1.11	PLANTING PLAN - EAST
L1.20	IRRIGATION PLAN - WEST
L1.21	IRRIGATION PLAN - EAST
L5.10	PLANTING DETAILS
L5.11	IRRIGATION DETAILS

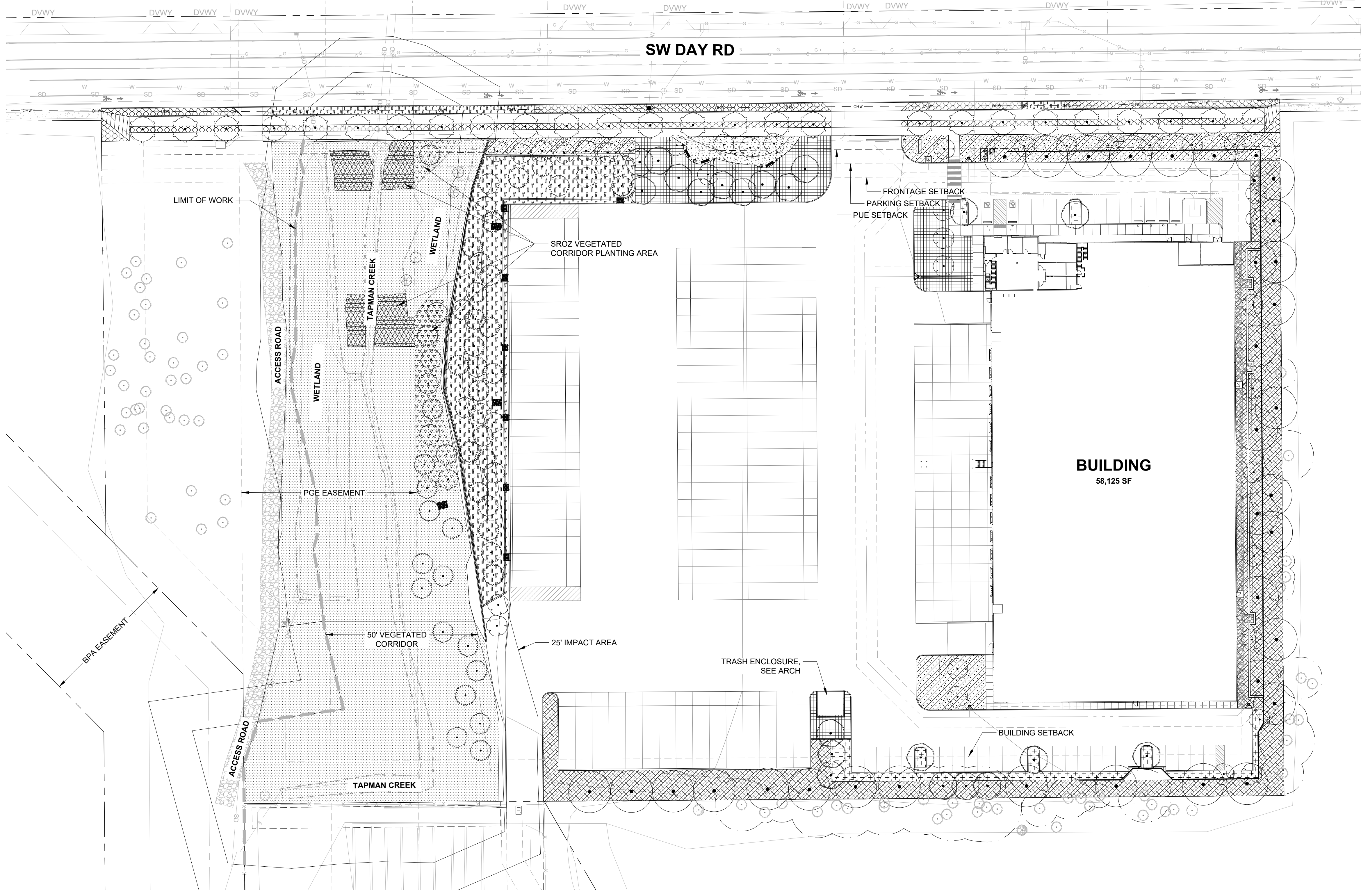
**TABLE OF ABBREVIATIONS**

ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	MAX	MINIMUM
B&B	BALL AND BURLAP	MIX	MIXTURE
CAL	CALIPER	NTS	NOT TO SCALE
CONC	CONCRETE	OC	ON CENTER
DEG	DEGREE	POC	POINT OF CONNECTION
DIAM	DIAMETER	PVC	POLY VINYL CHLORIDE
DWGS	DRAWING	SCH	SCHEDULE
ELL	ELBOW	SF	SQUARE FOOT
EQ	EQUAL	SPEC	SPECIFICATION
FT	FEET/FOOT	TYP	TYPICAL
GAL	GALLON	X	TIMES
GALV	GALVANIZED		
HHT	HEIGHT		

**LANDSCAPE NOTES**

- GENERAL**
- CONTRACTOR SHALL CONFIRM ALL EXISTING CONDITIONS PRIOR TO COMMENCING WORK.
  - CALL BEFORE YOU DIG. CONTRACTOR SHALL VERIFY INVERT ELEVATIONS OF ALL UNDERGROUND UTILITIES AND NOTIFY LANDSCAPE ARCHITECT IF THERE ARE ANY DISCREPANCIES WITH PLANTING ROOT ZONES. TO REQUEST LOCATES FOR PROPOSED EXCAVATION CALL 1-800-332-2344 (OR 811) IN OREGON.
  - NOTIFY THE OWNER OR OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES OR CONFLICTS WITH EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF ANY WORK.
  - LOCATION OF EXISTING TREES SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF WORK.
  - DAMAGE TO EXISTING CONCRETE CURB, ASPHALT PAVING, OR OTHER STRUCTURE SHALL BE REPAIRED OR REPLACED TO PRE CONSTRUCTION CONDITIONS.
  - CONTRACTOR SHALL COORDINATE WITH THE OWNER ANY DISRUPTION TO VEHICULAR CIRCULATION PRIOR TO COMMENCEMENT OF ANY WORK.
- PLANTING**
- ALL EXISTING TREES, PLANTS, AND ROOTS SHALL BE PROTECTED FROM DAMAGE FROM ANY CONSTRUCTION PREPARATION, REMOVAL OR INSTALLATION ACTIVITIES WITHIN AND ADJACENT TO PROJECT LIMITS.
  - SHRUBS ADJACENT TO PARKING AREAS SHALL BE PLANTED 2 FT MINIMUM AWAY FROM THE BACK OF CURB. SHRUBS AND GROUND COVER ALONG OTHER PAVEMENT EDGES SHALL BE PLANTED A MINIMUM OF ONE HALF THEIR ON CENTER SPACING AWAY FROM PAVEMENT EDGE.
  - ALL PLANT MATERIAL SHALL BE HEALTHY NURSERY STOCK, WELL BRANCHED AND ROOTED, FULL FOLIAGE, FREE FROM INSECTS, DISEASES, WEEDS, WEED ROT, INJURIES AND DEFECTS WITH NO LESS THAN MINIMUM SPECIFIED IN AMERICAN STANDARDS FOR NURSERY STOCK, ANSI Z60.1-2004.
  - TREES IN THE RIGHT OF WAY SHALL BE TALL ENOUGH TO BE LIMBED UP TO AT LEAST 8 FT ABOVE DRIVE SURFACE GRADE WHILE MAINTAINING ENOUGH BRANCHES TO SUPPORT HEALTHY GROWTH.
  - DO NOT PLANT TREES ABOVE WATERLINES, UTILITIES, OR OTHER UNDERGROUND PIPING.
  - IF DISTURBANCE IS NECESSARY AROUND EXISTING TREES, CONTRACTOR SHALL PROTECT THE CROWN AND ALL WORK WITHIN THE TREE DRIP ZONE SHALL BE LIMITED TO THE USE OF HAND TOOLS AND MANUAL EQUIPMENT ONLY.
  - REPLACE, REPAIR AND RESTORE DISTURBED LANDSCAPE AREAS DUE TO GRADING, TRENCHING OR OTHER REASONS TO PRE-CONSTRUCTION CONDITION AND PROVIDE MATERIAL APPROVED BY THE OWNER AND OWNER'S REPRESENTATIVE.
  - EXISTING AREAS PROPOSED FOR NEW PLANT MATERIAL SHALL BE CLEARED AND LEGALLY DISPOSED UNLESS SO NOTED.
  - A SOILS ANALYSIS, BY AN INDEPENDENT SOILS TESTING LABORATORY RECOGNIZED BY THE STATE DEPARTMENT OF AGRICULTURE, SHALL BE USED TO RECOMMEND AN APPROPRIATE IRRIGATION SYSTEM AND/OR SPECIFIED SOIL AMENDMENTS.
  - TOPSOIL SHALL BE AMENDED AS RECOMMENDED BY AN INDEPENDENT SOILS TESTING LABORATORY AND AS OUTLINED IN THE SPECIFICATION.
  - ALL LANDSCAPED AREAS SHALL BE COVERED BY A LAYER OF ORGANIC MULCH TO A MINIMUM DEPTH OF 2-INCHES.

- IRRIGATION**
- UNLESS OTHERWISE INDICATED, ALL NEW LANDSCAPE AREAS TO BE IRRIGATED WITH A FULLY AUTOMATIC UNDERGROUND IRRIGATION SYSTEM. PROVIDE LOOP SYSTEM FOR OPTIMUM EFFICIENCY.
  - CONTRACTOR SHALL SUBMIT SHOP DRAWINGS (IRRIGATION PLANS) TO LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION. DRAWINGS TO INDICATE HEAD TYPE, GALLONS PER MINUTE, LATERAL LINES, AND BE AT MINIMUM SCALE OF 1"=20'
  - CONTRACTOR TO DETERMINE STATIC WATER PRESSURE AT THE P.O.C. PRIOR TO PREPARING SHOP DRAWINGS.
  - CONTRACTOR SHALL ESTABLISH MINIMUM PRESSURE AND MAXIMUM DEMAND REQUIREMENTS FOR IRRIGATION SYSTEM DESIGN, AND PROVIDE INFORMATION IN AN IRRIGATION SCHEDULE.
  - IRRIGATION SYSTEM AS DESIGNED AND INSTALLED SHALL PERFORM WITHIN THE TOLERANCES AND SPECIFICATIONS OF THE SPECIFIED MANUFACTURERS.
  - SYSTEM SHALL BE DESIGNED TO SUPPLY MANUFACTURER'S SPECIFIED MINIMUM OPERATING PRESSURE TO FARTHEST EMITTER FROM WATER METER.
  - SYSTEM SHALL PROVIDE HEAD TO HEAD COVERAGE WITHOUT OVERSPRAY ONTO BUILDING, FENCES, SIDEWALKS, PARKING AREAS, OR OTHER NON-VEGETATED SURFACES.
  - ALL IRRIGATION PIPE MATERIAL AND INSTALLATION SHALL CONFORM TO APPLICABLE CODE FOR PIPING AND COMPONENT REQUIREMENTS.
  - PROVIDE SLEEVING AT ALL AREAS WHERE PIPE TRAVELS UNDER CONCRETE OR HARD SURFACING.
  - VALVES SHALL BE WIRED AND INSTALLED PER MANUFACTURER'S RECOMMENDED INSTALLATION PROCEDURES AND CONNECTED TO THE IRRIGATION CONTROLLER.
  - REFER TO CIVIL DETAILS AND DETAILS ON L5.11 FOR POINT OF CONNECTION AND BACKFLOW PREVENTION INFORMATION.
  - MAINLINE LAYOUT IS DIAGRAMMATIC ONLY.
  - CONTROLLER TO BE MOUNTED WITHIN BUILDING INTERIOR. GENERAL CONTRACTOR TO COORDINATE LOCATION WITH OWNER'S REPRESENTATIVE.
  - ZONE THE FOLLOWING AREAS SEPARATELY: TEMPORARY AREAS, PERMANENT LANDSCAPE AREAS, AND TREES.
  - QUICK COUPLERS TO BE PLACED EVERY 300 LINEAR FEET MAX.
  - IRRIGATION SHALL BE WINTERIZED THROUGH LOW PRESSURE, HIGH VOLUME AIR BLOWOUT CONNECTION THROUGH QUICK COUPLER.
  - THE SYSTEM SHALL BE GRAVITY DRAINED. THE CONTRACTOR SHALL PROVIDE APPROPRIATE MANUAL DRAINS AT LOW POINTS.



**M**

Architecture • Interiors  
Planning • Engineering

Portland, OR  
503.224.9560

Vancouver, WA  
360.695.7979

Seattle, WA  
206.749.9993

www.mckenzie.com

**MACKENZIE**  
DESIGN • DEVELOP • CLIENT SUCCESS

Client  
**DELTA LOGISTICS**

**9835 SW COMMERCE  
CIRCLE  
WILSONVILLE, OR 97070**

Project  
**DELTA LOGISTICS  
SITE EXPANSION**

**9710 SW DAY RD.  
CITY OF  
WILSONVILLE, OR**

REGISTERED  
2006  
NICOLE FERREIRA  
OREGON  
12/11/2020  
LANDSCAPE ARCHITECT

© MACKENZIE 2025  
ALL RIGHTS RESERVED  
THESE DRAWINGS ARE THE PROPERTY OF  
MACKENZIE AND ARE NOT TO BE USED  
OR REPRODUCED IN ANY MANNER  
WITHOUT PRIOR WRITTEN PERMISSION

REVISION SCHEDULE		
Delta	Issued As	Issue Date

**GENERAL  
LANDSCAPE  
NOTES**

SHEET

**L0.01**

JOB NO. **2200502.00**















**MITIGATION PLANTING NOTES**

NOTES PER EXHIBIT C NATURAL RESOURCE ASSESSMENT FOR 9710 SW DAY ROAD PREPARED BY SCHOTT AND ASSOCIATES (2022) AND AMENDED BY MACKENZIE (2023) TO REFLECT SITE PLAN CHANGES RESULTING IN LESS ENCROACHMENT ON THE VEGETATED CORRIDOR AND IMPACT AREA.

**SITE PREPARATION**  
 PRIOR TO ANY SITE CLEARING, GRADING OR CONSTRUCTION, THE SROZ AREA SHALL BE STAKED, AND FENCED PER APPROVED PLAN. DURING CONSTRUCTION, THE SROZ AREA SHALL REMAIN FENCED AND UNDISTURBED EXCEPT AS ALLOWED BY AN APPROVED DEVELOPMENT PERMIT.

**PROPOSED ENCROACHMENTS**  
 ENCROACHMENTS ARE PROPOSED TO THE VEGETATED CORRIDOR AND IMPACT AREA.

- ENCROACHMENTS WILL OCCUR IN THE NORTHERN PORTION OF THE VEGETATED CORRIDOR FOR THE CITY REQUIRED WIDENING OF SW DAY RD AND IN THE SOUTHERN PORTION FOR THE TAPMAN CREEK CROSSING. THESE AREAS ARE VEGETATED ENTIRELY BY INVASIVE SPECIES INCLUDING HIMALAYAN BLACKBERRY AND REED CANARY GRASS. NO TREES OR NATIVE SPECIES WILL BE REMOVED AS A RESULT OF CONSTRUCTION.
- ENCROACHMENT WITHIN THE IMPACT AREAS WILL OCCUR ON THE EAST SIDE OF THE CREEK FOR THE CONSTRUCTION OF A VEGETATED WATER QUALITY AND STORMWATER DETENTION FACILITY. NO ENCROACHMENTS TO TAPMAN CREEK OR THE WETLANDS ARE PROPOSED. NO TREES WILL BE REMOVED FROM THE SROZ.
- DEVELOPMENT ACTIVITY HAS BEEN LIMITED TO THE IMPACT AREA WHERE PRACTICAL EXCEPT WHERE NECESSARY TO WIDEN SW DAY ROAD.

**MITIGATION PLANTING**  
 THE MITIGATION PLANTING PLAN WAS DESIGNED ACCORDING SECTION 4.139.07.(02)(E) AND SHALL MEET THE FOLLOWING:

- THE PLANTING PLAN SHALL BE IMPLEMENTED PRIOR TO OR AT THE SAME TIME AS THE IMPACT ACTIVITY IS CONDUCTED.
- ALL TREES, SHRUBS AND GROUND COVER SHALL BE NATIVE VEGETATION.
- TREES AND SHRUBS SHALL BE AT LEAST ONE-GALLON IN SIZE AND SHALL BE AT LEAST TWELVE (12) INCHES IN HEIGHT.
- 2-GALLON TREES SHALL BE PLANTED BETWEEN EIGHT (8) AND TWELVE (12) FEET ON CENTER, AND SHRUBS SHALL BE PLANTED BETWEEN FOUR (4) AND FIVE (5) FEET ON CENTER, OR CLUSTERED IN SINGLE SPECIES GROUPS OF NO MORE THAN FOUR (4) PLANTS, WITH EACH CLUSTER PLANTED BETWEEN EIGHT (8) AND TEN (10) FEET ON CENTER. WHEN PLANTING NEAR EXISTING TREES, THE DRIP LINE OF THE EXISTING TREE SHALL BE THE STARTING POINT FOR PLANT SPACING MEASUREMENTS.
- SHRUBS SHALL CONSIST OF AT LEAST TWO (2) DIFFERENT SPECIES. IF FIVE (5) TREES OR MORE ARE PLANTED, THEN NO MORE THAN FIFTY (50) PERCENT OF THE TREES MAY BE OF THE SAME GENUS.
- INVASIVE NON-NATIVE OR NOXIOUS VEGETATION SHALL BE REMOVED WITHIN THE MITIGATION AREA PRIOR TO PLANTING AND SHALL BE REMOVED OR CONTROLLED FOR FIVE (5) YEARS FOLLOWING THE DATE THAT THE MITIGATION PLANTING IS COMPLETED.

**MITIGATION GOALS AND PERFORMANCE STANDARDS**

THE MITIGATION SITE GOAL IS AS FOLLOWS:

**ENHANCE 32,890 SF OF VEGETATED CORRIDOR TO IMPROVE RIPARIAN CORRIDOR, WATER QUALITY PROTECTION, ECOLOGICAL INTEGRITY AND WILDLIFE HABITAT FUNCTIONS BY REMOVING INVASIVE SPECIES AND MAINTAINING A NATIVE, WOODY-DOMINATED PLANT COMMUNITY.**

PERFORMANCE STANDARDS ARE BASED ON METRO'S TITLE 3 WATER QUALITY PERFORMANCE STANDARDS TO PROTECT AND IMPROVE WATER QUALITY AND PROTECT THE FUNCTIONS AND VALUES OF WATER QUALITY RESOURCE AREAS (METRO 2018). THIS PLAN'S PERFORMANCE STANDARDS FOR FOREST AND/OR SHRUB DOMINATED AREAS AND SHALL CONSIST OF THE FOLLOWING:

- ESTABLISHMENT OF PERMANENT MONITORING LOCATIONS DURING THE FIRST ANNUAL MONITORING.
- COVER OF NATIVE HERBACEOUS SPECIES IS AT LEAST 60%.
- COVER OF INVASIVE SPECIES IS NO MORE THAN 10%. AFTER THE SITE HAS MATURED TO THE STAGE WHEN DESIRABLE CANOPY SPECIES REACH 50% COVER, THE COVER OF INVASIVE SPECIES MAY INCREASE BUT MAY NOT EXCEED 30%.
- BARE SUBSTRATE REPRESENTS NO MORE THAN 20% COVER.
- DENSITY OF WOODY VEGETATION IS AT LEAST 1,600 LIVE TREES OR SHRUBS PER ACRE OR THE COVER OF NATIVE WOODY VEGETATION ON SITE IS AT LEAST 50%. NATIVE VOLUNTEER SPECIES MAY BE INCLUDED IN THE COVER OR DENSITY ESTIMATE.
- BY YEAR 3 AND THEREAFTER, AT LEAST 6 DIFFERENT NATIVE SPECIES MUST BE PRESENT. TO QUALIFY, A SPECIES MUST HAVE AT LEAST 5% AVERAGE COVER IN THE HABITAT CLASS AND OCCUR IN AT LEAST 10% OF THE PLOTS SAMPLED.
- BY YEAR 5, A MINIMUM OF EIGHTY (80) PERCENT OF THE TREES AND SHRUBS INITIALLY REQUIRED SHALL REMAIN ALIVE.

**MAINTENANCE AND MONITORING**

MONITORING WILL OCCUR ANNUALLY OVER A 5-YEAR MONITORING PERIOD TO ASSESS CONDITION OF PLANTINGS, IRRIGATION, MULCH ETC. MONITORING WILL BE CONDUCTED BY QUALIFIED PERSONNEL DURING PEAK GROWING SEASON (JULY-AUGUST). ANNUAL MONITORING REPORTS WILL BE PROVIDED TO THE PLANNING DIRECTOR FOR REVIEW BY DECEMBER OF EACH MONITORING YEAR. THE REPORT SHALL CONTAIN, AT A MINIMUM, PHOTOGRAPHS FROM ESTABLISHED PHOTO POINTS, QUANTITATIVE MEASURE OF SUCCESS CRITERIA, INCLUDING PLANT SURVIVAL AND VIGOR. THE YEAR 1 ANNUAL REPORT SHALL BE SUBMITTED ONE YEAR FOLLOWING MITIGATION ACTION IMPLEMENTATION. THE FINAL ANNUAL REPORT (YEAR 5 REPORT) SHALL DOCUMENT SUCCESSFUL SATISFACTION OF MITIGATION GOALS, AS PER THE STATED PERFORMANCE STANDARDS.

THE APPLICANT WILL BE RESPONSIBLE FOR COORDINATING ONGOING MAINTENANCE AND MANAGEMENT. IF THE OWNERSHIP OF THE MITIGATION SITE PROPERTY CHANGES, THE NEW OWNERS WILL HAVE THE CONTINUED RESPONSIBILITIES MAINTENANCE ACTIVITIES INCLUDING MULCHING, WEED REMOVAL, HERBIVORY CONTROL, AND SUPPLEMENTAL PLANTING WILL BE CONDUCTED BY A QUALIFIED CONTRACTOR AT LEAST TWICE PER GROWING SEASON AND ONCE PRIOR TO THE GROWING SEASON OR MORE FREQUENTLY AS INDICATED BY MONITORING RESULTS. ANY FAILED PLANTS WILL BE REPLACED IN-KIND WITH THE CAUSE OF LOSS (WILDLIFE DAMAGE, POOR PLANT STOCK, DROUGHT, WEED OVERGROWTH, ETC.) DOCUMENTED AND ADDITIONAL MAINTENANCE DONE TO ADDRESS THE CAUSE OF LOSS AND ENSURE FUTURE PLANT SURVIVAL.

**SROZ ENCROACHMENT MITIGATION TABLE**

	ENCROACHMENT	MITIGATION RATE
VEGETATED CORRIDOR	1,850 SF	3:2:1 6,305 SF
IMPACT AREA	9,833.70 SF	N/A
		RIPARIAN FOREST COMMUNITY 3,360 SF RIPARIAN SHRUB COMMUNITY 2,945 SF

**MITIGATION PLANT SCHEDULE PER SRIR**

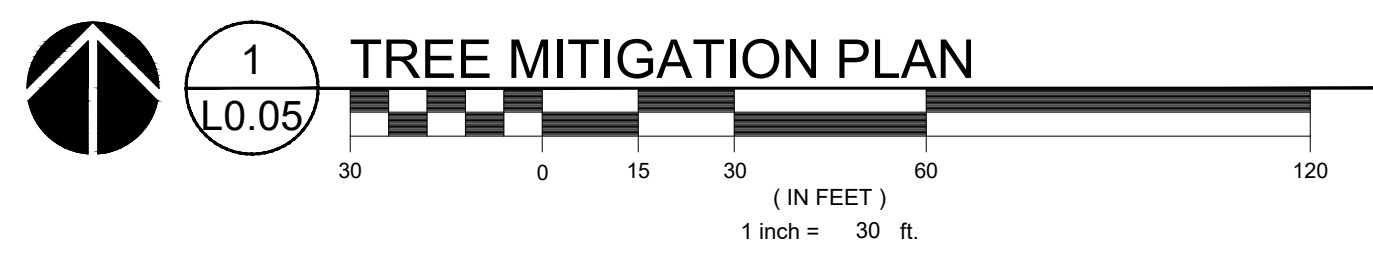
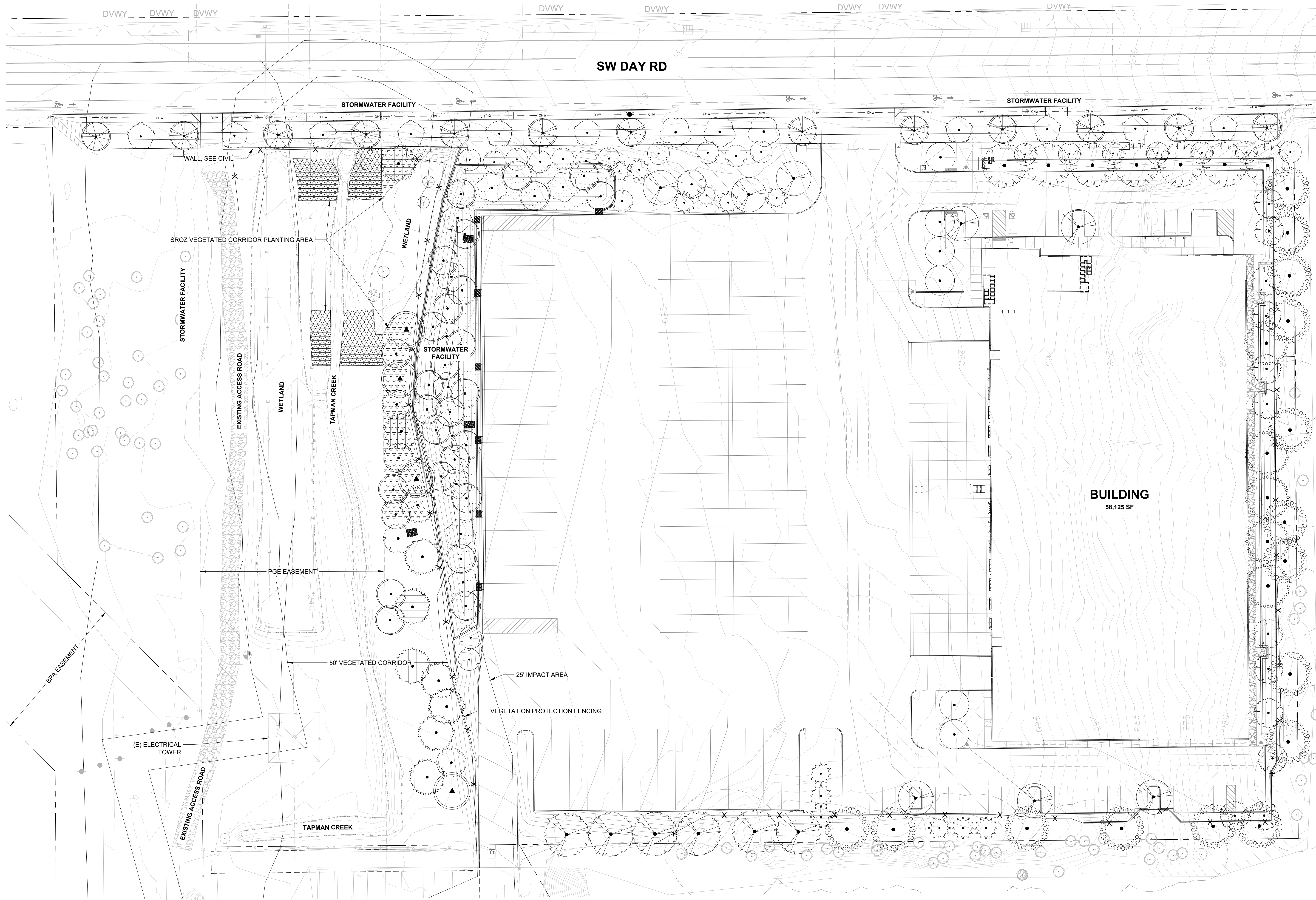
RIPARIAN FOREST COMMUNITY: 3,360 SF					
SPECIES	TYPE	MIN SIZE*	SPACING	QTY	TOTAL
OREGON ASH	TREE	2-INCH CAL	15 FT OC	11	
FRAXINUS LATIFOLIA	TREE	2 GAL OR	8 FT OC	31	
SCOULEUR FTS WILLOW	TREE	2 GAL OR	8 FT OC	31	
SALIX SCOULERIANA	TREE	2 GAL OR	8 FT OC	31	
WESTERN REDCEDAR	TREE	2 GAL OR	8 FT OC	31	73 TREES
THUJA PLICATA	TREE	2 GAL OR	8 FT OC	31	
REDOSIER DOGWOOD	SHRUB	1 GAL OR	5 FT OC	30	
CORNUS STOLONIFERA	SHRUB	1 GAL OR	5 FT OC	30	
RED ELDERBERRY	SHRUB	1 GAL OR	5 FT OC	30	
SAMBUCUS RACEMOSA	SHRUB	1 GAL OR	5 FT OC	30	
SNOWBERRY	SHRUB	1 GAL OR	5 FT OC	30	
SYMPHORICARPOS ALBUS	SHRUB	1 GAL OR	5 FT OC	30	
SALMONBERRY	SHRUB	1 GAL OR	5 FT OC	14	
RUBUS SPECTABILIS	SHRUB	1 GAL OR	5 FT OC	30	
SWAMP ROSE	SHRUB	1 GAL OR	5 FT OC	30	
ROSA PISOCARPA	SHRUB	1 GAL OR	5 FT OC	30	
RIPARIAN SHRUB COMMUNITY: 2,945 SF					
SPECIES	TYPE	MIN SIZE*	SPACING	QTY	TOTAL
REDOSIER DOGWOOD	SHRUB	1 GAL OR	5 FT OC	15	
CORNUS STOLONIFERA	SHRUB	1 GAL OR	5 FT OC	30	
RED ELDERBERRY	SHRUB	1 GAL OR	5 FT OC	30	
SAMBUCUS RACEMOSA	SHRUB	1 GAL OR	5 FT OC	30	
SNOWBERRY	SHRUB	1 GAL OR	5 FT OC	15	
SYMPHORICARPOS ALBUS	SHRUB	1 GAL OR	5 FT OC	10	
RUBUS SPECTABILIS	SHRUB	1 GAL OR	5 FT OC	17	
SWAMP ROSE	SHRUB	1 GAL OR	5 FT OC	17	
ROSA PISOCARPA	SHRUB	1 GAL OR	5 FT OC	30	
INDIAN PLUM	SHRUB	1 GAL OR	5 FT OC	30	251 SHRUBS
OSMERA CERASIFORMIS	SHRUB	1 GAL OR	5 FT OC	30	
PROTOME 402	HERB	25 LBS PER ACRE		1.7 LBS	

\*NATIVE RIPARIAN MIX INCLUDES BLUE WILDRYE (ELYMUS GLAUCUS), MEADOW BARLEY (HORDEUM BRACHYANTHERUM), AND TUFTED HAIRGRASS (DESCHAMPSIA CESPITOSA)

**PROPOSED PLANT LIST (REMAINDER OF SITE)**

IN COMPLIANCE WITH THE MITIGATION REQUIREMENTS, NATIVE AND DROUGHT TOLERANT VEGETATION IS USED THROUGHOUT THE SITE.

PLANT NAME	NATIVE STATUS
<b>ACCENT TREES</b>	
ACER RUBRUM 'BOWHALL'	NATIVE CULTIVAR
AMELANCHIER ALNIFOLIA 'AUTUMN BRILLIANCE'	NATIVE CULTIVAR
CORNUS KOUSA X NUTTALLII 'KN4-43'	NATIVE CULTIVAR
<b>PRIMARY TREES</b>	
PSEUDOTSUGA MENZIESII	NATIVE
QUERCUS GARRYANA	NATIVE
THUJA PLICATA	NATIVE
ZELKOVA SERRATA 'GREEN VASE'	NATIVE
<b>SECONDARY TREES</b>	
CALOCEDRUS DECURRENS	NATIVE
TILIA TOMENTOSA 'STERLING'	NATIVE
<b>STORMWATER TREES</b>	
ACER MACROPHYLLUM	NATIVE CULTIVAR
CORNUS X EDDIE'S 'WHITE WONDER'	NATIVE
FRAXINUS LATIFOLIA	NATIVE
PINUS PONDEROSA VAR. BENTHAMIANA	NATIVE
PSEUDOTSUGA MENZIESII	NATIVE
RHAMNUS PURSHIANA	NATIVE
<b>STREET TREES</b>	
ACER GRANDIDENTATUM 'SCHMIDT' TM	NATIVE CULTIVAR
CORNUS 'KUBUS' 'MILK WAY'	NATIVE CULTIVAR
PARRROTTIA PERSICA 'INGE'S RUBY VASE' TM	NATIVE CULTIVAR
<b>SHRUBS</b>	
ACER CIRCINATUM 'PACIFIC FIRE'	NATIVE CULTIVAR
ARBUBUS UNEDIO 'COMPACTA'	NATIVE
CORNUS 'SERICEA' 'KELSEYI'	NATIVE
DEUTZIA 'GRACILIS' 'NIKKO'	NATIVE CULTIVAR
GAULTHERIA 'SHALLON'	NATIVE
MAHONIA AQUIFOLIUM	NATIVE CULTIVAR
MAHONIA AQUIFOLIUM 'COMPACTA'	NATIVE
MYRICA CALIFORNICA	NATIVE
POLYSTICHUM MUNITUM	NATIVE
RIBES SANGUINEUM	NATIVE CULTIVAR
SPIRAEA BETULIFOLIA 'TOR'	NATIVE
SYMPHORICARPOS ALBUS	NATIVE
VACCINIUM OVATUM 'SCARLET OVATION'	NATIVE
<b>PERENNIALS</b>	
VIBURNUM DAVIDI	NATIVE CULTIVAR
VIBURNUM TINUS 'SPRING BOUQUET'	NATIVE
<b>GROUND COVERS</b>	
ACHILLEA 'MILLIFOLIUM' 'ALABASTER'	NATIVE
ASTER 'SUBSPICATUS'	NATIVE
POLYSTICHUM MUNITUM	NATIVE
PTERIDIUM AQUILINUM	NATIVE
SALVIA X SUPERBA 'CARADONNA'	NATIVE
<b>STORMWATER SHRUBS</b>	
CORNUS 'SERICEA'	NATIVE
HOLODISCUS DISCOLOR	NATIVE
MAHONIA AQUIFOLIUM	NATIVE CULTIVAR
RIBES SANGUINEUM	NATIVE
ROSA PISOCARPA	NATIVE
RUBUS SPECTABILIS	NATIVE
<b>SEED MIX NATIVE UPLANDS MEADOW MIX</b>	
SPIRAEA BETULIFOLIA 'TOR'	NATIVE
SPIRAEA DOUGLASSII	NATIVE
SYMPHORICARPOS ALBUS	NATIVE
<b>GROUND COVERS</b>	
ARCTOSTAPHYLOS UVA-URSI	NATIVE
BOUTELOUA 'GRACILIS' 'BLONDE 'AMBITION'	NATIVE
FESTUCA OCCIDENTALIS	NATIVE
CERANIMUM X CANTABRIGIENSE 'BIOKOVO'	NATIVE
MAHONIA AQUIFOLIUM	NATIVE
PROTOME 402 NATIVE RIPARIAN MIX	NATIVE
SEED MIX NATIVE POLLINATOR MEADOW MIX	NATIVE
SEED MIX NATIVE UPLANDS MEADOW MIX	NATIVE
<b>STORMWATER PLANTING</b>	
CAREX Densa	NATIVE
JUNCUS PATENS	NATIVE



**M**  
 Architecture • Interiors  
 Planning • Engineering  
 Portland, OR 503.224.9560  
 Vancouver, WA 360.695.7879  
 Seattle, WA 206.749.9993  
 www.mckenzie.com

**MACKENZIE**  
 DESIGN-BUILD • CLIENT FOCUSED  
 Client  
**DELTA LOGISTICS**  
 9835 SW COMMERCE CIRCLE  
 WILSONVILLE, OR 97107

Project  
**DELTA LOGISTICS**  
 SITE EXPANSION  
 9710 SW DAY RD.  
 CITY OF WILSONVILLE, OR

REGISTERED  
 2006  
 NICOLE FERREIRA  
 OREGON  
 12/11/2020  
 LANDSCAPE ARCHITECT

© MACKENZIE 2025  
 ALL RIGHTS RESERVED  
 THESE DRAWINGS ARE THE PROPERTY OF MACKENZIE AND ARE NOT TO BE USED OR REPRODUCED IN ANY MANNER WITHOUT PRIOR WRITTEN PERMISSION

**REVISION SCHEDULE**

Delta	Issued As	Issue Date

**VEGETATED CORRIDOR ENHANCEMENT PLANTING PLAN**

SHEET

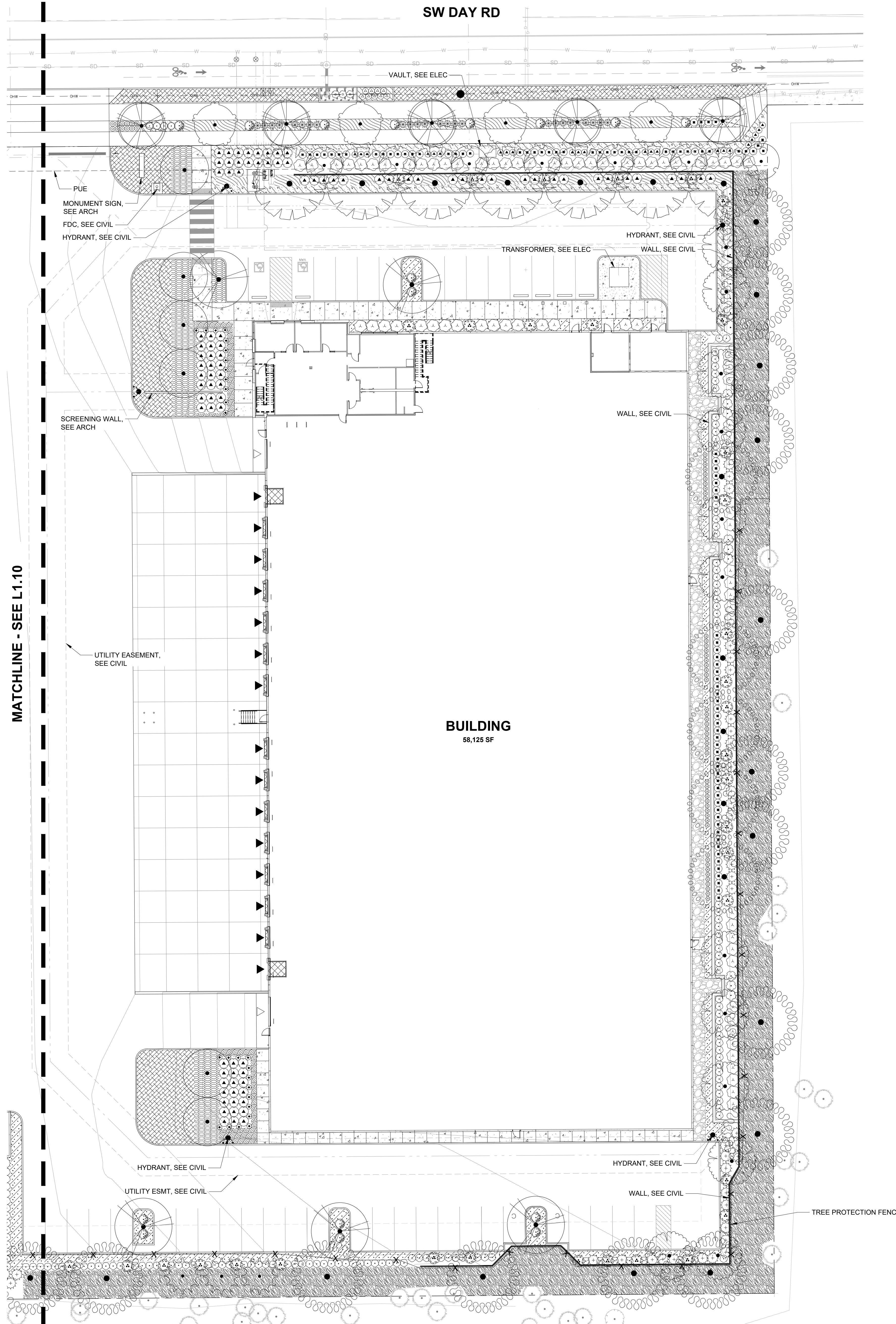
**L0.05**

JOB NO. 2200502.00







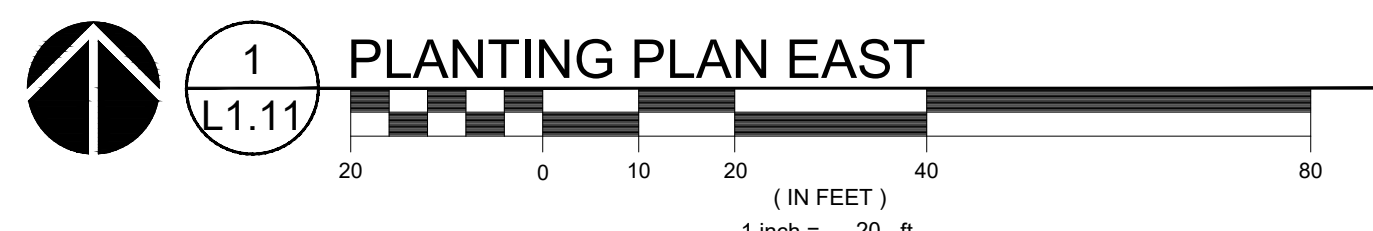
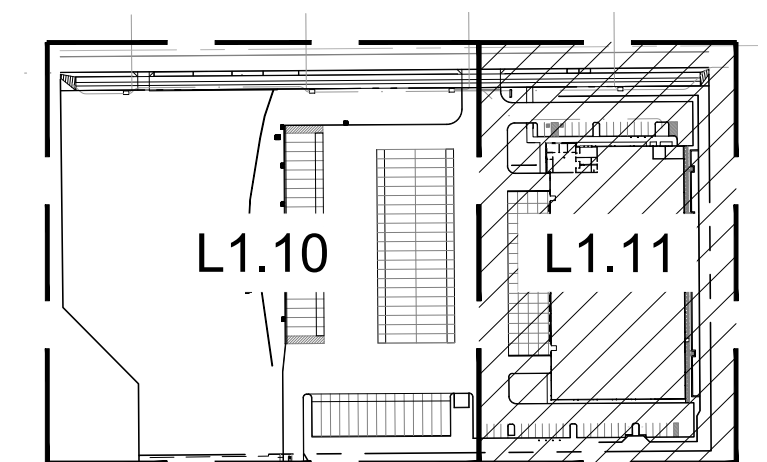


**PLANT KEY LEGEND**

<b>ACCENT TREES</b>	<b>BOTANICAL / COMMON NAME</b>
	ACER RUBRUM 'BOWHALL' BOWHALL RED MAPLE
	AMELANCHIER ALNIFOLIA 'AUTUMN BRILLIANCE' SERVICEBERRY
	CORNUS KOUSA X NUTTALLII 'KN4-43' STARLIGHT KOUSA DOGWOOD
<b>PRIMARY TREES</b>	<b>BOTANICAL / COMMON NAME</b>
	PSEUDOTSUGA MENZIESII DOUGLAS FIR
	THUJA PLICATA WESTERN RED CEDAR
	ZELKOVA SERRATA 'GREEN VASE' GREEN VASE SAWLEAF ZELKOVA
<b>SECONDARY TREES</b>	<b>BOTANICAL / COMMON NAME</b>
	CALOCEDRUS DECURRENS INCENSE CEDAR
	TILIA TOMENTOSA 'STERLING' STERLING SILVER LINDEN
<b>STREET TREES</b>	<b>BOTANICAL / COMMON NAME</b>
	ACER GRANDIDENTATUM 'SCHMIDT' TM ROCKY MOUNTAIN GLOW MAPLE
	PARROTTIA PERSICA 'INGE'S RUBY VASE' TM RUBY VASE PERSIAN PARROTTIA
<b>SHRUBS</b>	<b>BOTANICAL / COMMON NAME</b>
	ACER CIRCINATUM 'PACIFIC FIRE' PACIFIC FIRE VINE MAPLE
	ARBUTUS UNEDO 'COMPACTA' DWARF STRAWBERRY TREE
	CORNUS SERICEA 'KELSEY' KELSEY DWARF REDTIG DOGWOOD
	DEUTZIA GRACILIS 'NIKKO' SLENDER DEUTZIA
	GAULTHERIA SHALLON SALAL
	MAHONIA AQUIFOLIUM OREGON GRAPE
	MAHONIA AQUIFOLIUM 'COMPACTA' COMPACT OREGON GRAPE
	POLYSTICHUM MUNIUM WESTERN SWORD FERN
	RIBES SANGUINEUM RED FLOWERING CURRANT
	SPIRAEA BETULIFOLIA 'TOR' BIRCHLEAF SPIREA
	SYMPHORICARPOS ALBUS COMMON WHITE SNOWBERRY
	VACCINIUM OVATUM EVERGREEN HUCKLEBERRY
	VIBURNUM DAVIDII DAVID VIBURNUM
	VIBURNUM TINUS 'SPRING BOUQUET' SPRING BOUQUET LAURUSTINUS
<b>PERENNIALS</b>	<b>BOTANICAL / COMMON NAME</b>
	SALVIA X SUPERBA 'CARADONNA' CARADONNA SAGE
<b>STORMWATER SHRUBS</b>	<b>BOTANICAL / COMMON NAME</b>
	SPIRAEA BETULIFOLIA 'TOR' TOR BIRCHLEAF SPIREA
	SYMPHORICARPOS ALBUS COMMON WHITE SNOWBERRY
<b>GROUND COVERS</b>	<b>BOTANICAL / COMMON NAME</b>
	ARCTOSTAPHYLOS UVA-URSI KINKKINNICK
	BOUTELOUA GRACILIS 'BLONDE AMBITION' BLONDE AMBITION BLUE GRAMA
	FESTUCA OCCIDENTALIS WESTERN FESCUE GRASS
	GERANIUM X CANTABRIGIENSE 'BIOKOVO' BIOKOVO CRANESBILL
	MAHONIA REPENS CREEPING MAHONIA
	SEED MIX NATIVE POLLINATOR MEADOW MIX SUNMARK SEEDS
	SEED MIX NATIVE UPLANDS MEADOW MIX SUNMARK SEEDS
<b>STORMWATER PLANTING</b>	<b>BOTANICAL / COMMON NAME</b>
	CAREX Densa DENSE SEDGE
	JUNCUS PATENS CALIFORNIA GRAY RUSH

**REFERENCE NOTES**

1. PLANT SIZE, SPACING AND QUANTITY, SEE PLANT SCHEDULE L0.02
2. PROPOSED UTILITY BOX. AVOID PLANTING WITHIN DEFINED ACCESS ZONE.
3. COORDINATE SHRUB LAYOUT WITH EXISTING UTILITIES, REPORT CONFLICTS TO LANDSCAPE ARCHITECT.

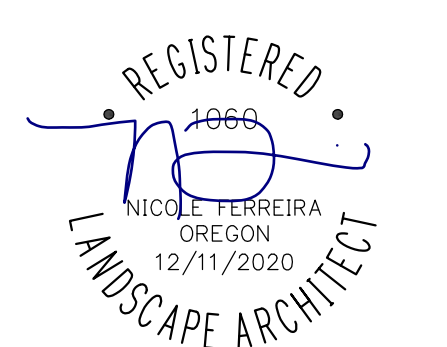


Portland, OR  
503.224.9560  
Vancouver, WA  
360.695.7879  
Seattle, WA  
206.749.9993  
www.mcknze.com

**MACKENZIE**  
DESIGN-BUILD • CLIENT FOCUS

Client  
**DELTA LOGISTICS**  
9835 SW COMMERCE  
CIRCLE  
WILSONVILLE, OR 97070

Project  
**DELTA LOGISTICS  
SITE EXPANSION**  
9710 SW DAY RD.  
CITY OF  
WILSONVILLE, OR



© MACKENZIE 2025  
ALL RIGHTS RESERVED  
THESE DRAWINGS ARE THE PROPERTY OF  
MACKENZIE AND ARE NOT TO BE USED  
OR REPRODUCED IN ANY MANNER  
WITHOUT PRIOR WRITTEN PERMISSION

REVISION SCHEDULE		
Delta	Issued As	Issue Date

**PLANTING PLAN - EAST**

SHEET

**L1.11**






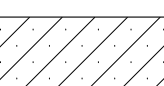
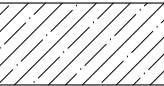
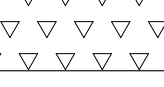
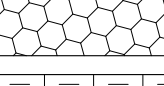
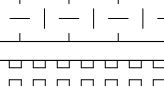
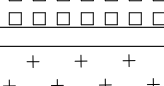
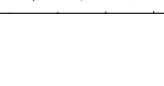
JOB NO. **2200502.00**





SW DAY RD

IRRIGATION LEGEND

-  POINT OF CONNECTION, INCLUDE DOUBLE CHECK BACKFLOW PREVENTOR, MASTER VALVE AND FLOW SENSOR - SEE DETAIL ON L5.11
-  IRRIGATION CONTROLLER
-  GATE VALVE
-  QUICK COUPLER AT 150' (INTERVALS MAX)
-  MAINLINE SLEEVE- DIAMETER AT LEAST TWICE DIAMETER OF PIPE BEING SLEEVED
-  SHRUB AND GROUNDCOVER DRIP AREA
-  SHRUB AND GROUNDCOVER SPRAY AREA
-  STORMWATER AREA - ZONE SEPARATELY
-  LAWN AREA - ZONE SEPARATELY
-  TEMPORARY IRRIGATED AREA - ZONE SEPARATELY
-  RIGHT-OF-WAY - ZONE SEPARATELY
-  MEADOW AREA - ZONE SEPARATELY

REFERENCE NOTES

1. CAREFULLY EXCAVATE IRRIGATION TRENCHES IN VICINITY OF EXISTING TREES. SEE TREE PROTECTION NOTES L0.03 AND IN EXHIBIT D ARBORIST REPORT.



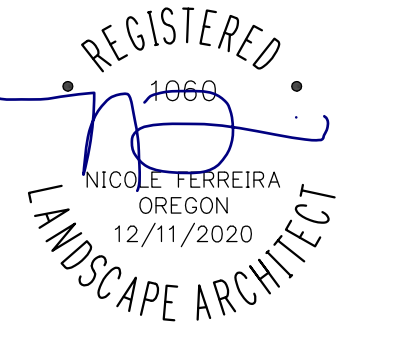
Portland, OR  
503.224.9560  
Vancouver, WA  
360.695.7879  
Seattle, WA  
206.749.9993  
www.mcknzze.com

MACKENZIE

DESIGN REVIEW | CLIENT PROVIDED

Client  
**DELTA LOGISTICS**  
9835 SW COMMERCE  
CIRCLE  
WILSONVILLE, OR 97070

Project  
**DELTA LOGISTICS  
SITE EXPANSION**  
9710 SW DAY RD.  
CITY OF  
WILSONVILLE, OR



© MACKENZIE 2023  
ALL RIGHTS RESERVED  
THESE DRAWINGS ARE THE PROPERTY OF  
MACKENZIE AND ARE NOT TO BE USED  
OR REPRODUCED IN ANY MANNER  
WITHOUT PRIOR WRITTEN PERMISSION

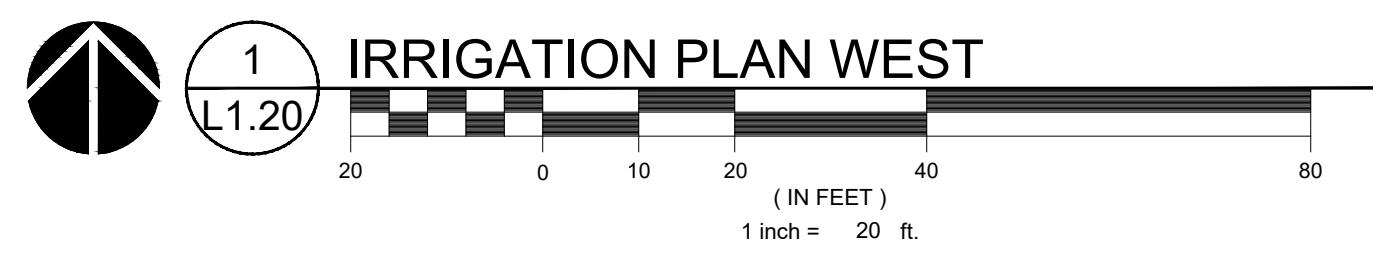
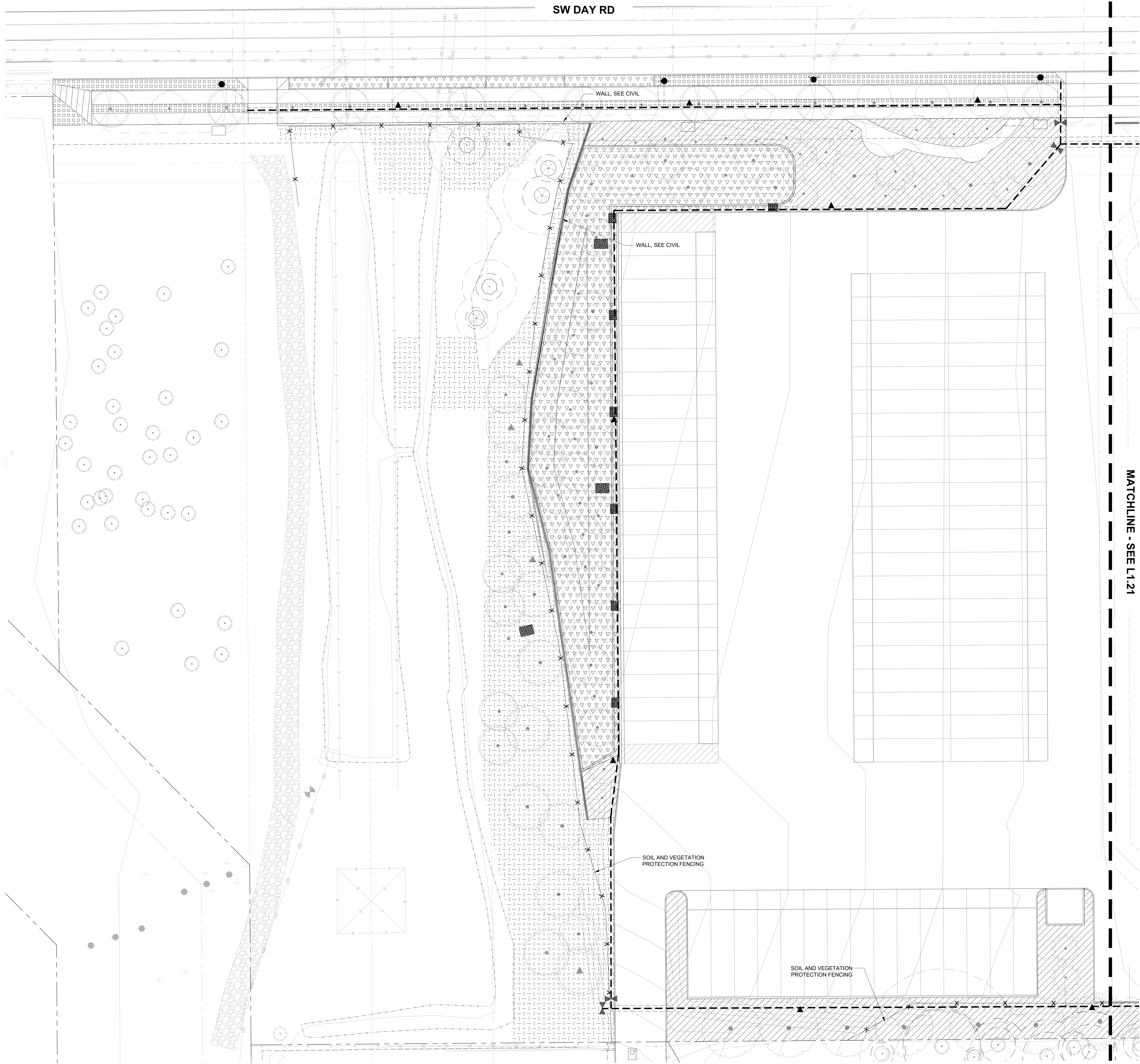
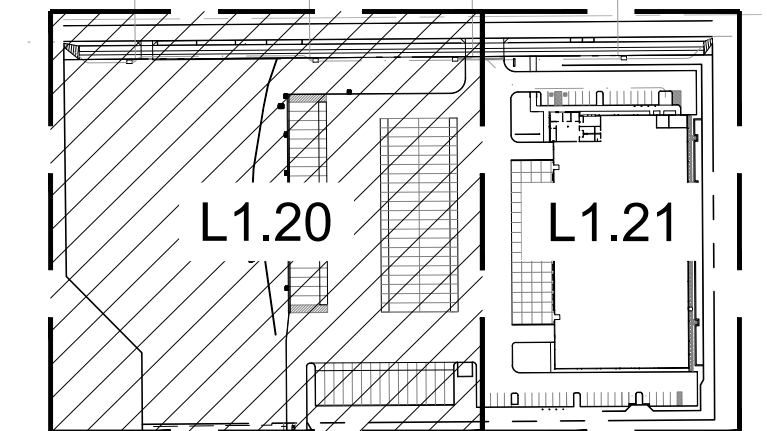
REVISION SCHEDULE		
Delta	Issued As	Issue Date
1	LAND USE	2/20/2023

IRRIGATION PLAN - WEST

SHEET

L1.20

JOB NO. 2200502.00



1 IRRIGATION PLAN WEST





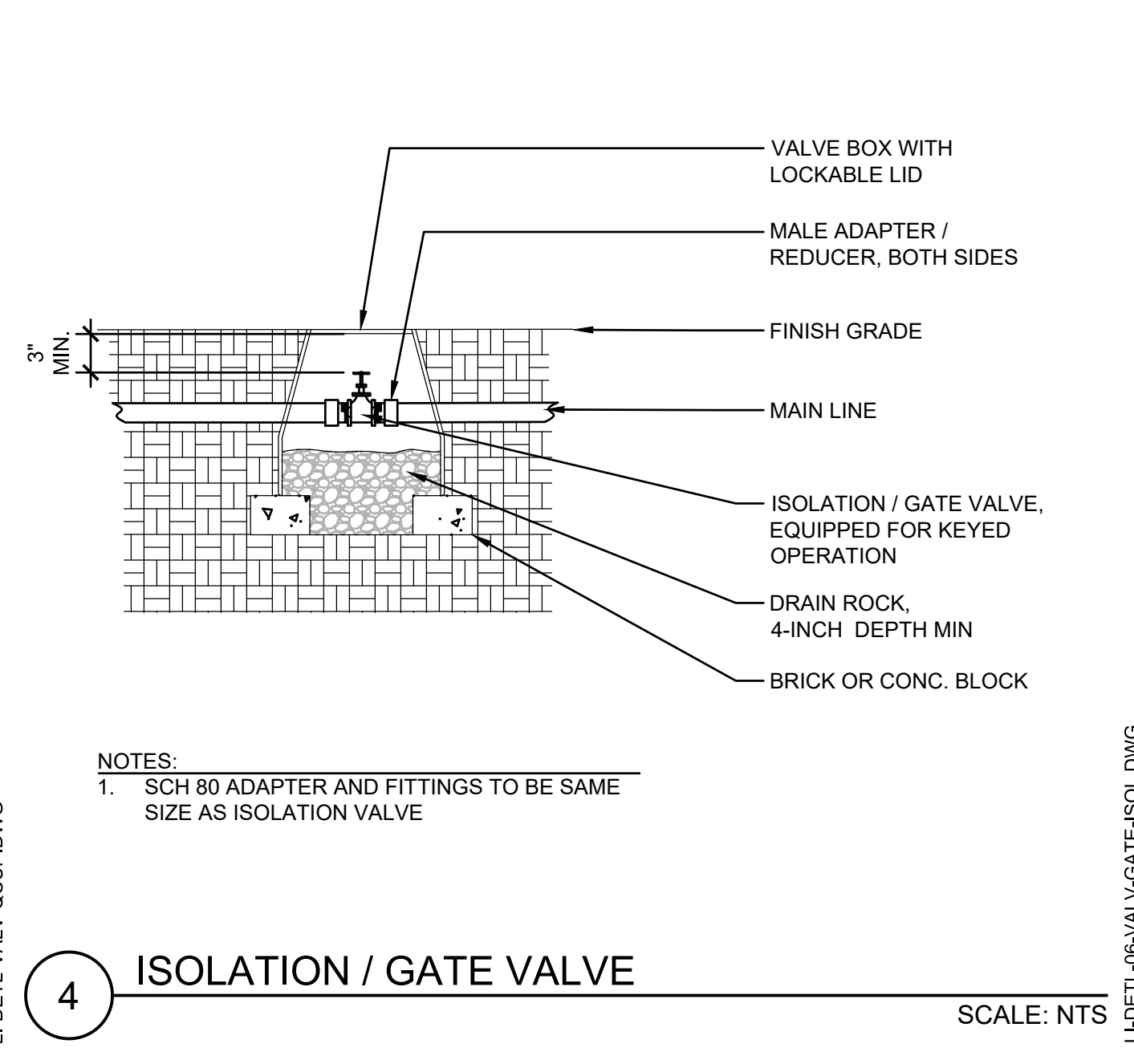




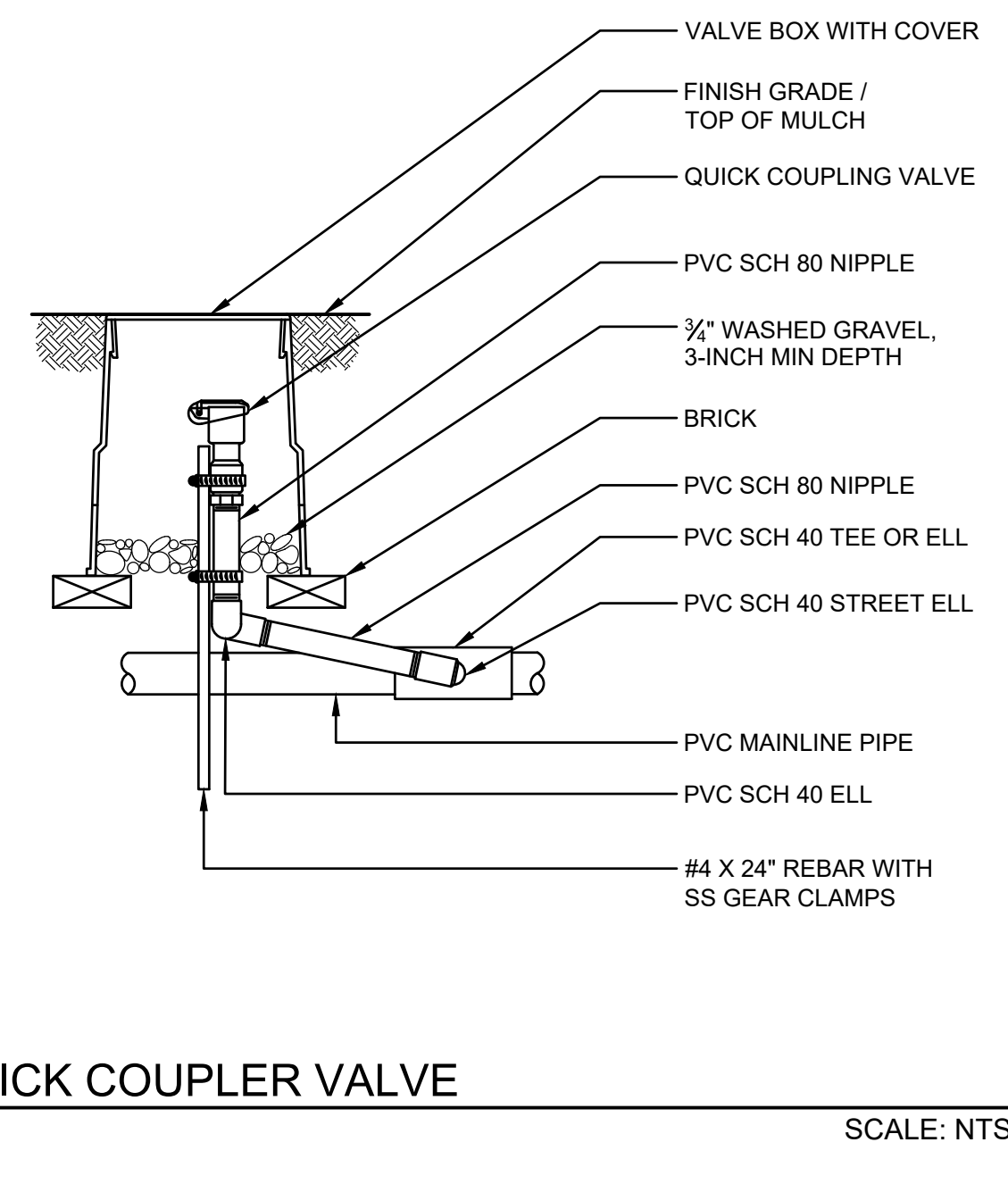


REVISION SCHEDULE		
Delta	Issued As	Issue Date

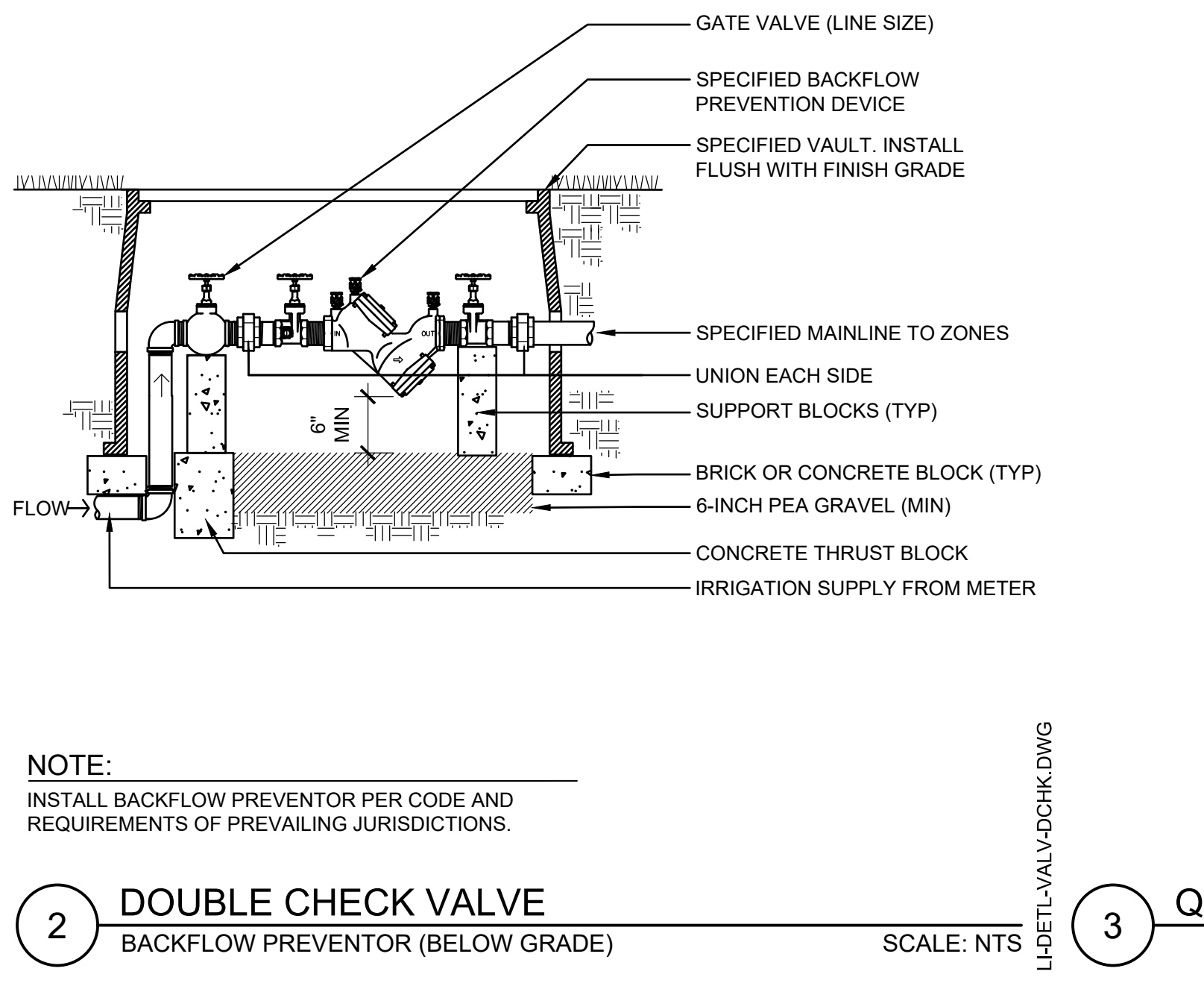
**IRRIGATION  
 DETAILS**



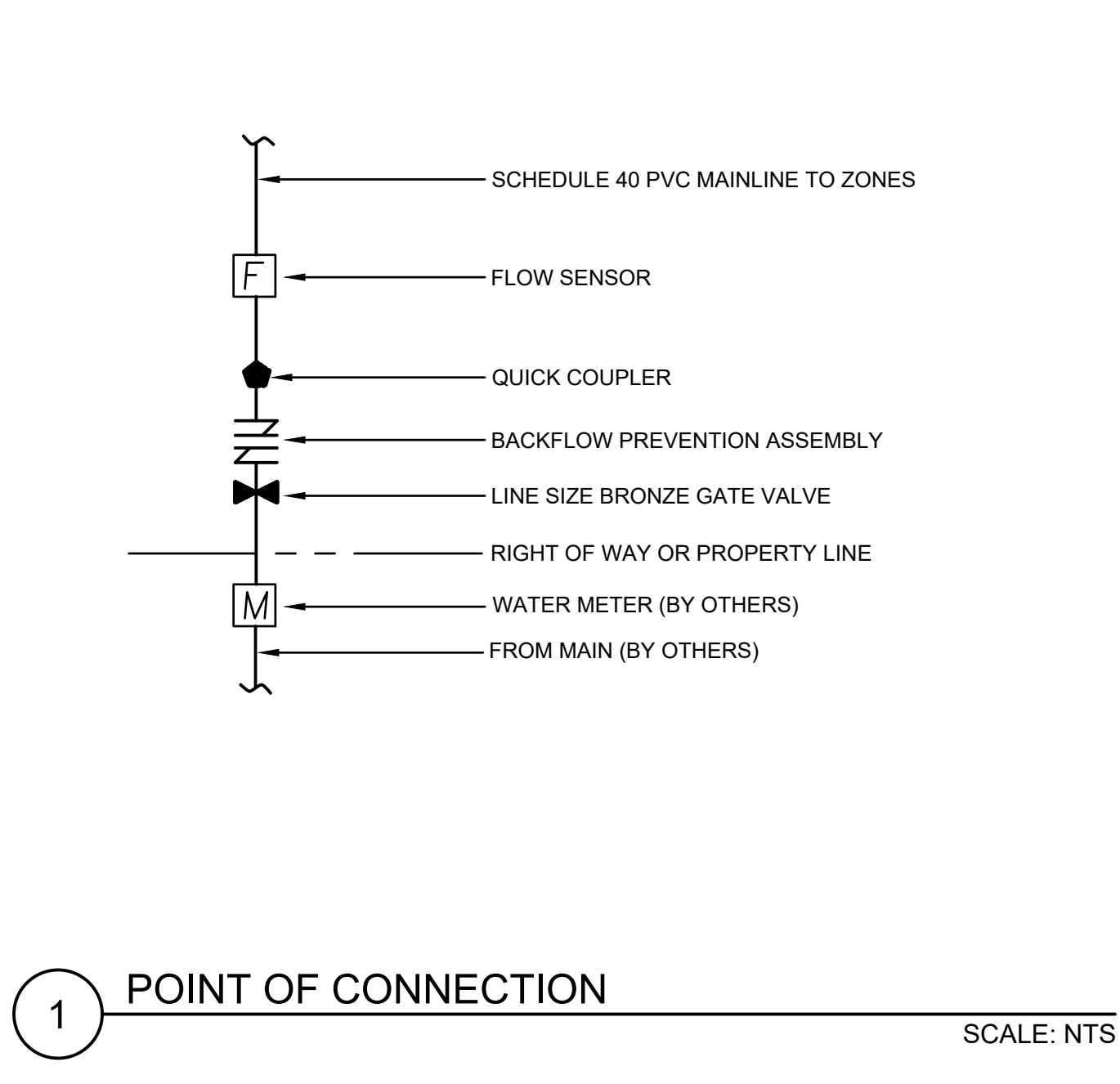
**4 ISOLATION / GATE VALVE**  
 SCALE: NTS



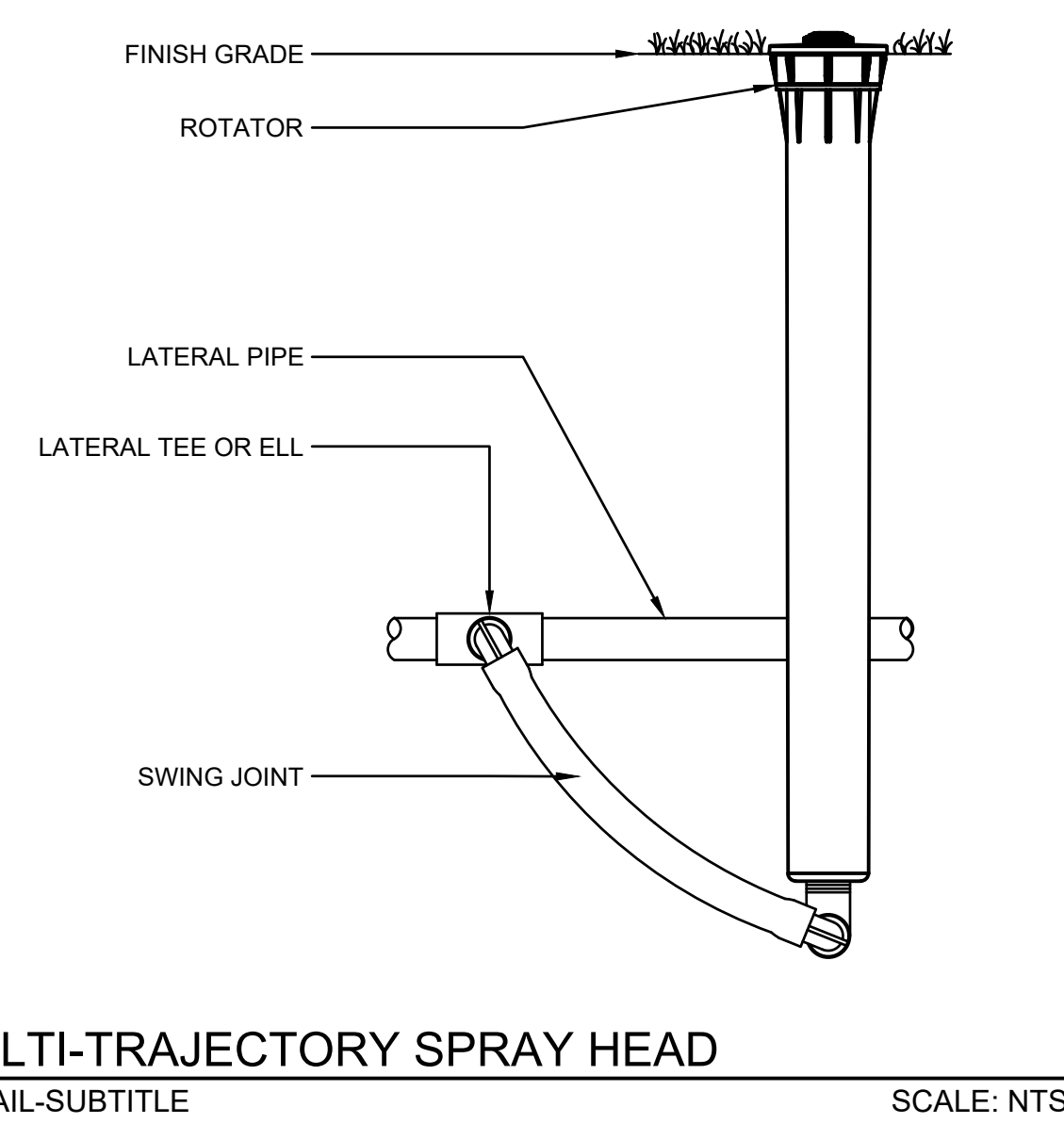
**3 QUICK COUPLER VALVE**  
 SCALE: NTS



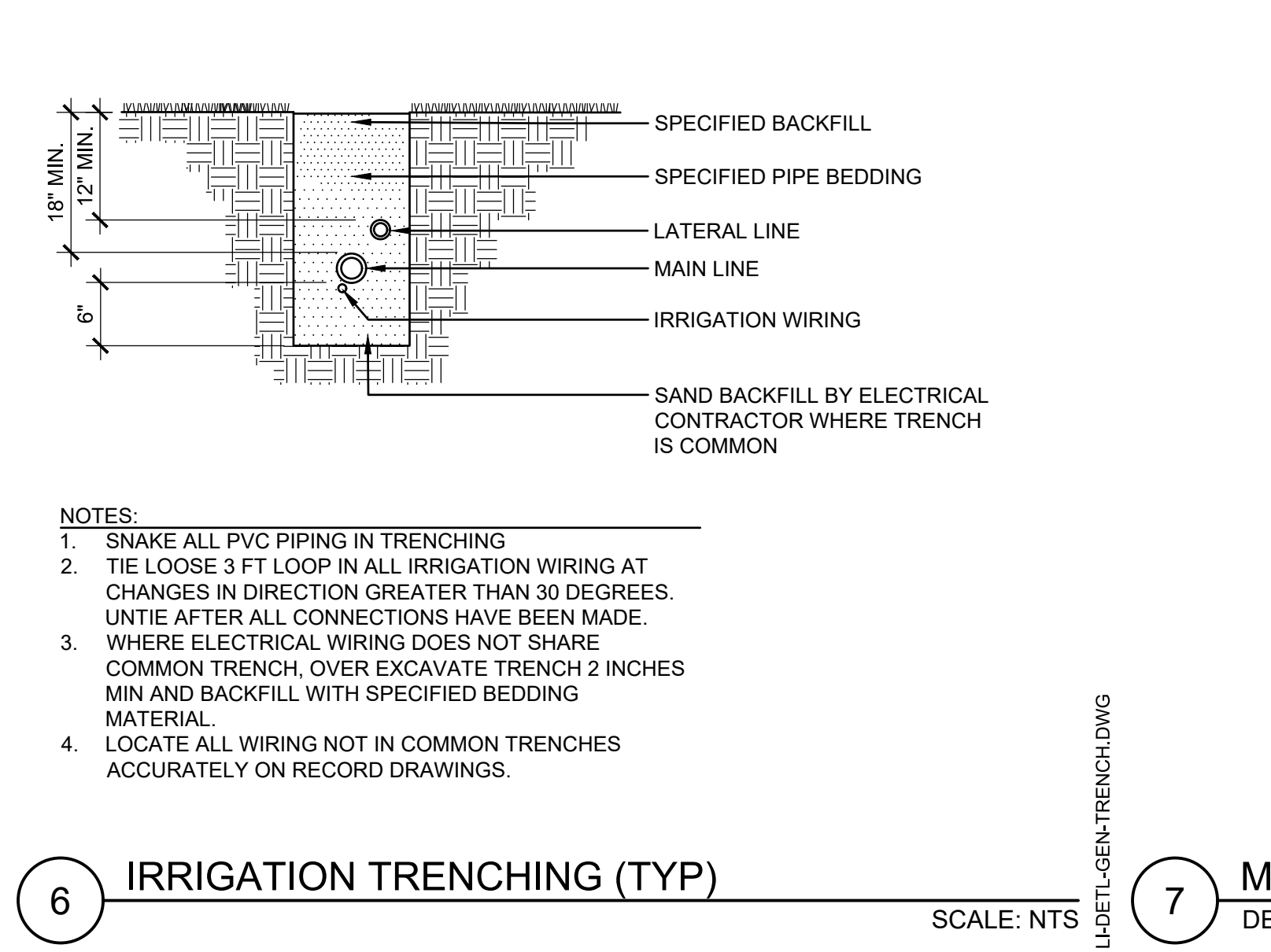
**2 DOUBLE CHECK VALVE  
 BACKFLOW PREVENTOR (BELOW GRADE)**  
 SCALE: NTS



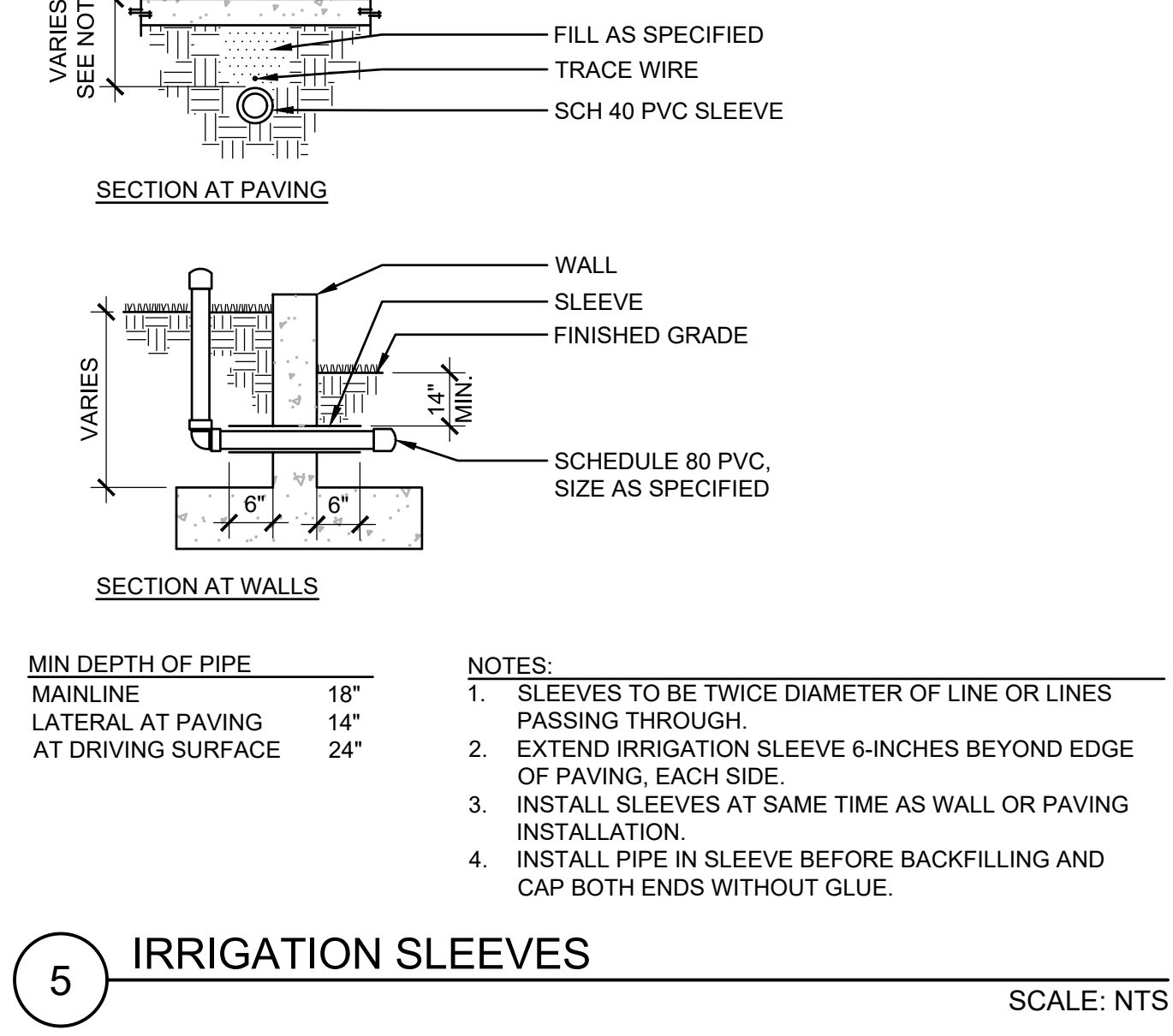
**1 POINT OF CONNECTION**  
 SCALE: NTS



**7 MULTI-TRAJECTORY SPRAY HEAD**  
 SCALE: NTS



**6 IRRIGATION TRENCHING (TYP)**  
 SCALE: NTS



**5 IRRIGATION SLEEVES**  
 SCALE: NTS









© MACKENZIE  
 2023 ALL RIGHTS RESERVED  
 THESE DRAWINGS ARE THE PROPERTY OF  
 MACKENZIE AND ARE NOT TO BE USED  
 OR REPRODUCED IN ANY MANNER,  
 WITHOUT PRIOR WRITTEN PERMISSION.

REVISION SCHEDULE		
Delta	Issued As	Issue Date

SHEET TITLE:  
**PARTITION  
 TYPES**

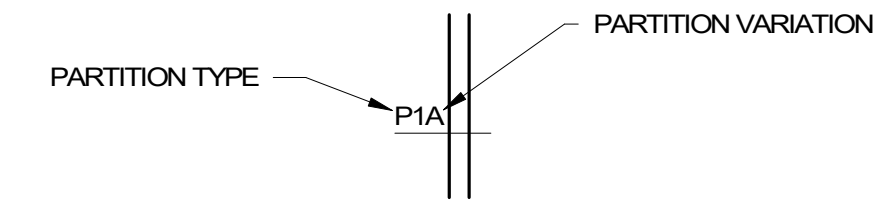
SHEET

**A0.02**

JOB NO. **2200502.00**

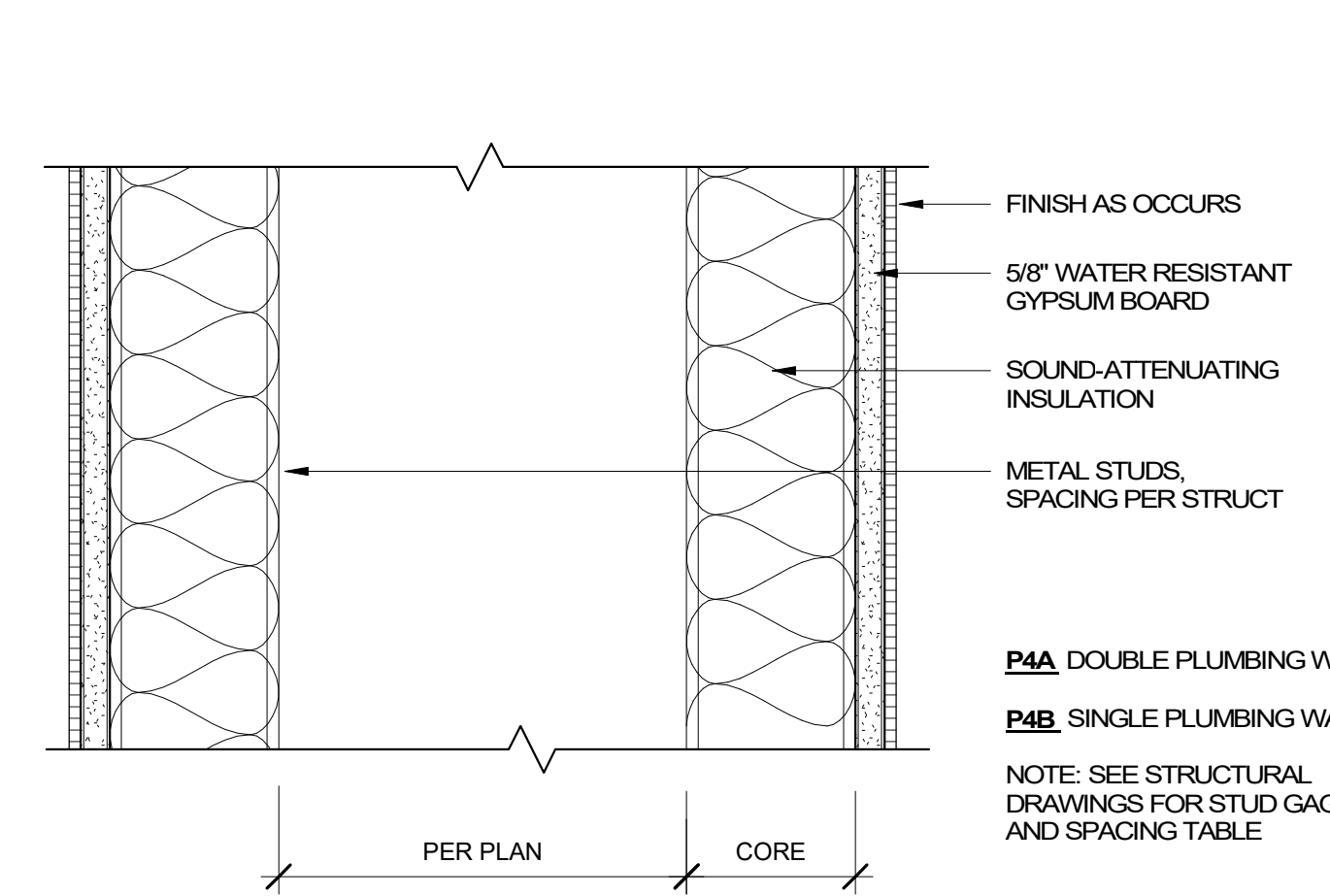
**PARTITION TYPES**

PARTITION TYPES ARE REFERENCED ON PLANS AND IN DETAILS AS FOLLOWS:  
 PARTITION TYPE: (P1, P2, P3...) GENERAL DESCRIPTION AND PURPOSE  
 PARTITION VARIATION: (A, B, C...) DETAILED DESCRIPTION OF ASSEMBLY

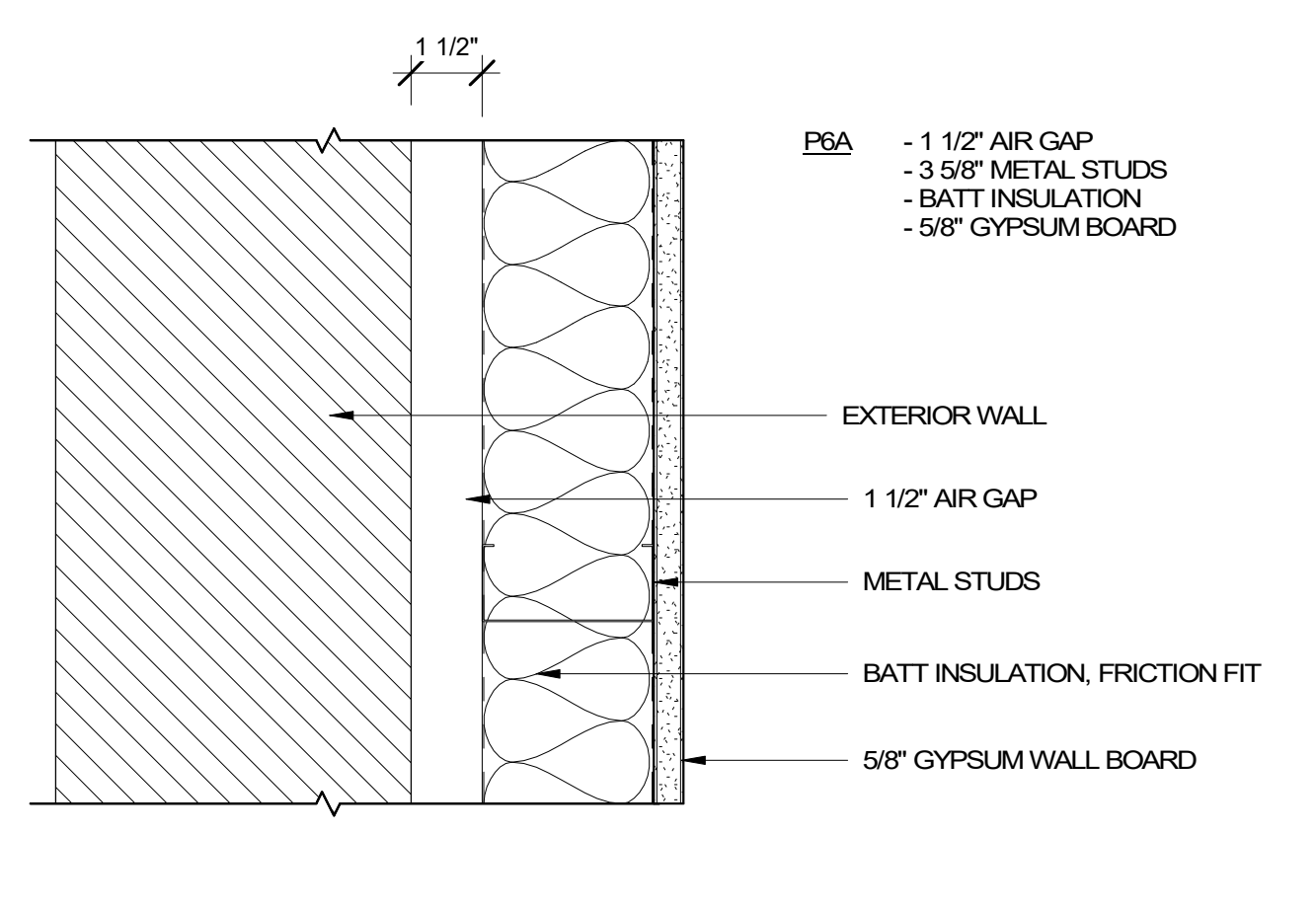


**PARTITION NOTES**

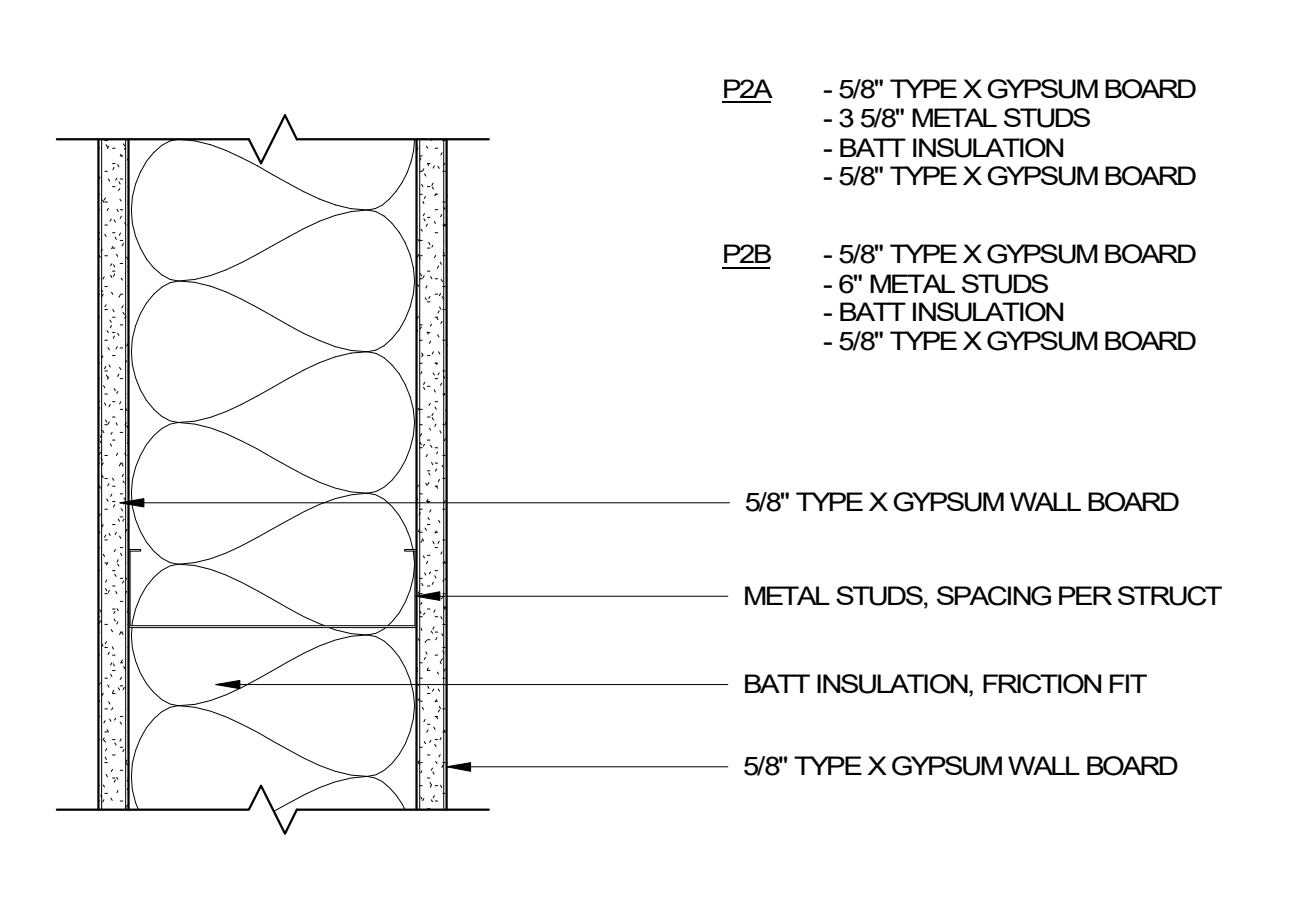
- PROVIDE METAL STUD GAUGE TO ACCOMMODATE PARTITION HEIGHT AND MAXIMUM DEFLECTION OF L/240 IN ACCORDANCE WITH MSMA (METAL STUD MANUFACTURER'S ASSOCIATION) LOAD TABLES. (SEE STRUCTURAL DRAWINGS FOR STUD GAUGE AND SPACING TABLE)
- ALL WALLS ARE FULL HEIGHT (TO THE BOTTOM OF DECK OR STRUCTURE ABOVE) UNLESS NOTED OTHERWISE. SEE REFLECTED CEILING PLANS FOR MORE INFORMATION.
- ALL RATED PARTITIONS SHALL EXTEND FROM FLOOR SLAB TO STRUCTURE ABOVE. PROVIDE RATED PENETRATIONS AS REQUIRED. REFER TO PLANS FOR EXTENTS. (PER SPEC) PLACE CONTROL JOINTS CONSISTENT WITH LINES OF BUILDING SPACES AND AS INDICATED, NOT MORE THAN 30 FEET APART ON WALLS AND CEILING OVER 50 FEET LONG. AT EXTERIOR SOFFITS, NOT MORE THAN 30 FEET APART IN BOTH DIRECTIONS.
- ALL WALLS WITH CERAMIC TILE, WAINSCOT W/ PLYWOOD SUBSTRATE OR MIRROR SHALL USE MIN. 33 ML STUDS.
- TERMINATE BARRIER AND ANTI-FRACTURE MEMBRANE 2" BELOW TOP OF TILE WAINSCOT AS OCCURS.
- REFER TO SPECIFICATIONS FOR WATERPROOF MEMBRANE, THINSET, AND GROUT REQUIREMENTS.
- TILE INSTALLATION TO COMPLY W/ TCA HANDBOOK GUIDELINES SEE SHEET A8.7.
- HORIZ. CJ @ B/STRUCTURE



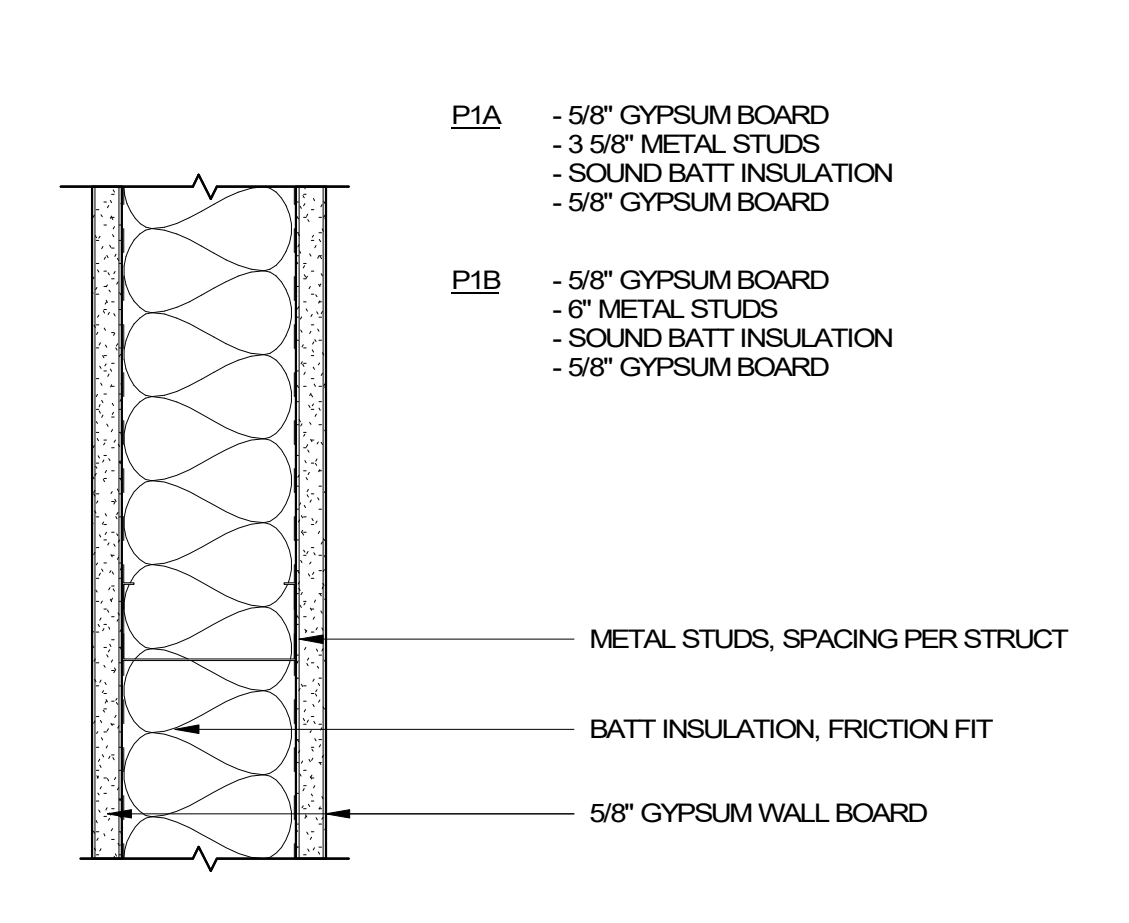
**P1A** DOUBLE PLUMBING WALL  
**P1B** SINGLE PLUMBING WALL  
 NOTE: SEE STRUCTURAL DRAWINGS FOR STUD GAUGE AND SPACING TABLE



**P3A** - 1 1/2" AIR GAP  
 - 3 5/8" METAL STUDS  
 - BATT INSULATION  
 - 5/8" GYPSUM BOARD



**P2A** - 5/8" TYPE X GYPSUM BOARD  
 - 3 5/8" METAL STUDS  
 - BATT INSULATION  
 - 5/8" TYPE X GYPSUM BOARD  
**P2B** - 5/8" TYPE X GYPSUM BOARD  
 - 6" METAL STUDS  
 - BATT INSULATION  
 - 5/8" TYPE X GYPSUM BOARD

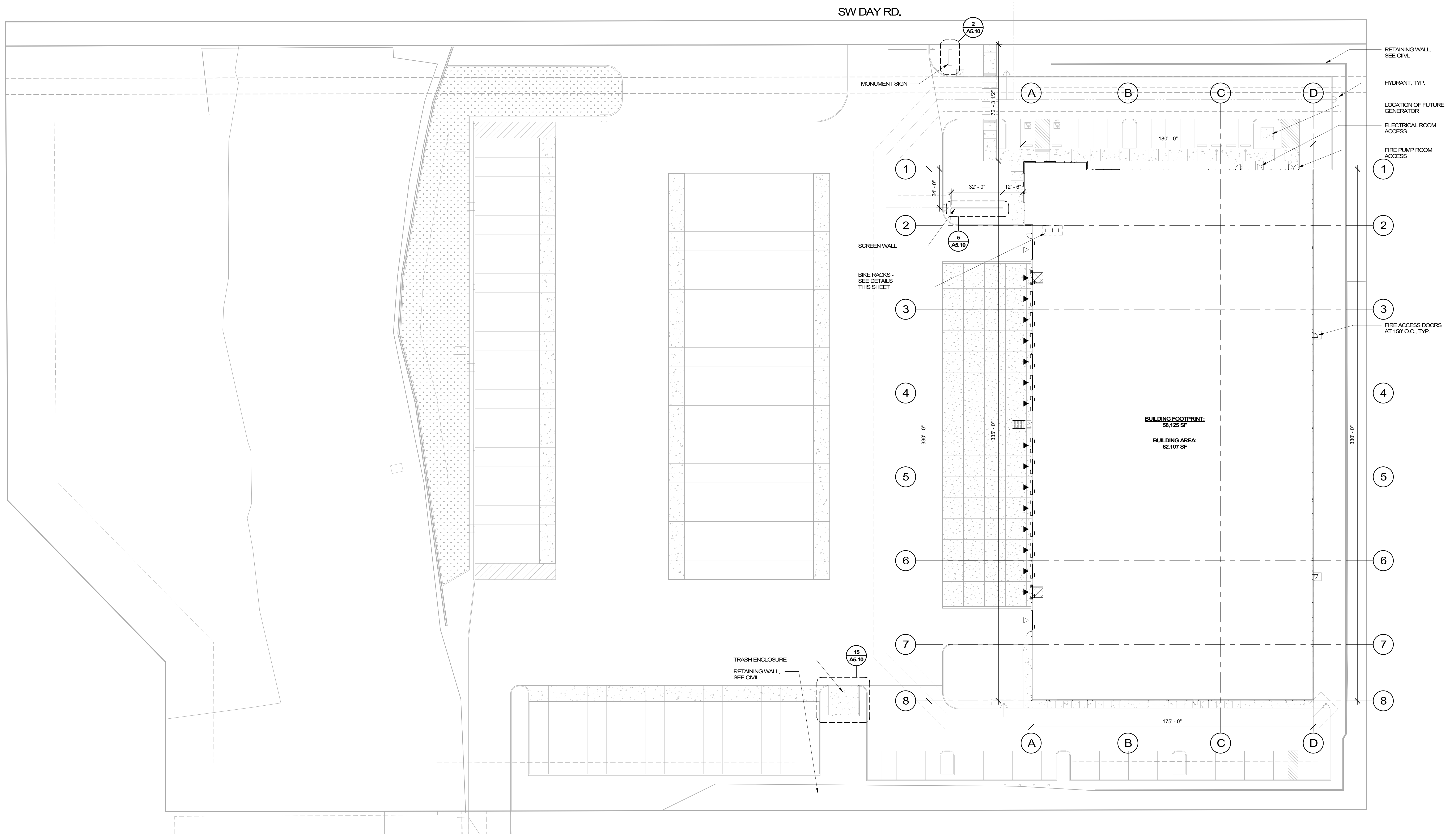


**P1A** - 5/8" GYPSUM BOARD  
 - 3 5/8" METAL STUDS  
 - SOUND BATT INSULATION  
 - 5/8" GYPSUM BOARD  
**P1B** - 5/8" GYPSUM BOARD  
 - 6" METAL STUDS  
 - SOUND BATT INSULATION  
 - 5/8" GYPSUM BOARD

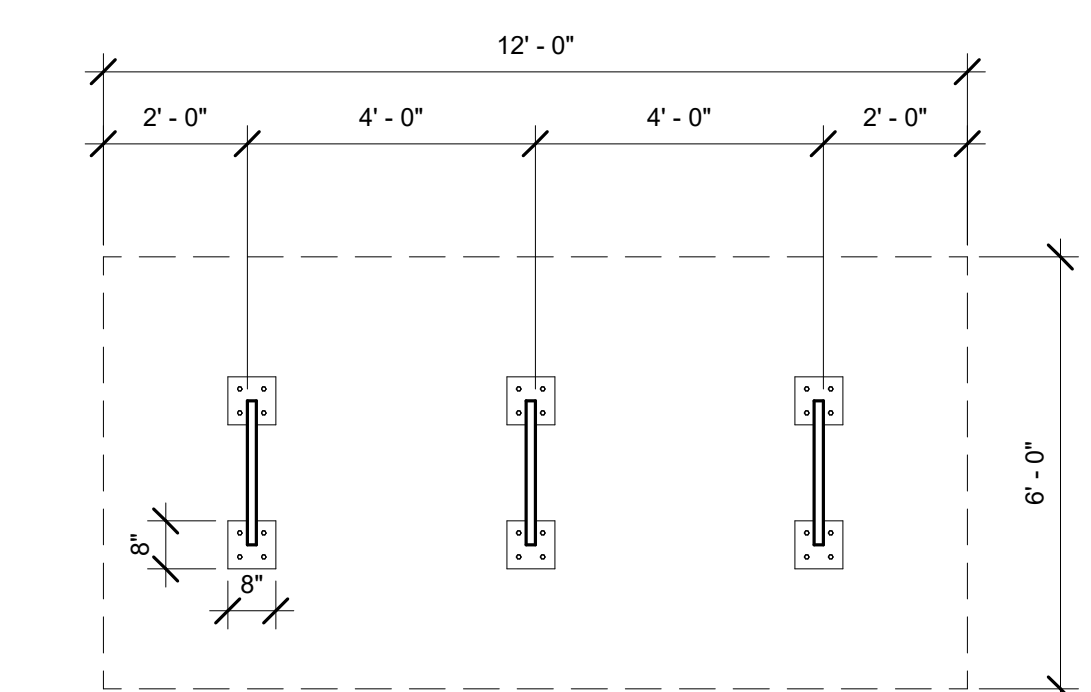
- P1** TYPICAL WALL  
**1** METAL STUD WALL  
 A0.02 3" = 1'-0"
- P2** RATED WALL  
**2** (1) HR RATED WALL  
 A0.02 3" = 1'-0"
- P3** FURRING WALL  
**3** INSULATED FURRING WALL  
 A0.02 3" = 1'-0"
- P4** PLUMBING WALL  
**4** PLUMBING WALL  
 A0.02 3" = 1'-0"



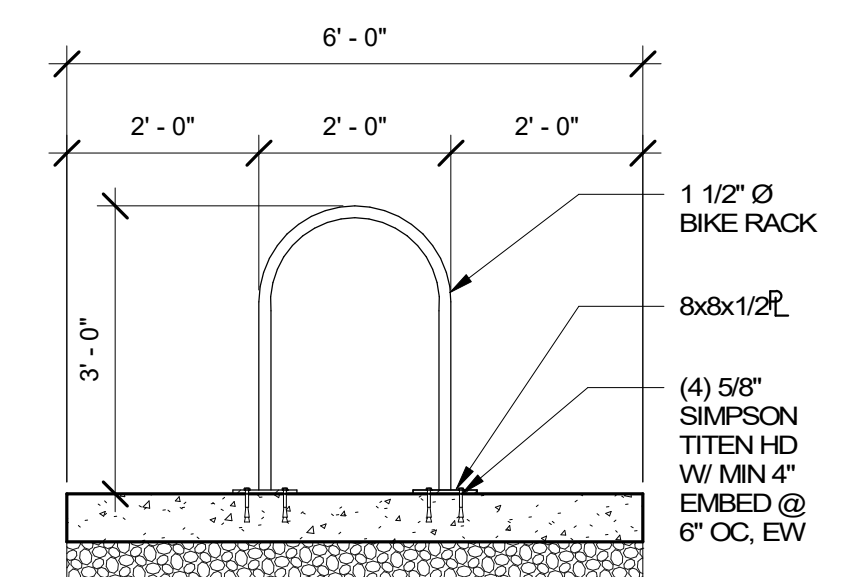
Delta	Issued As	Issue Date
A	REV 1	7/26/22



**1 SITE PLAN**  
A0.09 1:300



**2 BIKE RACK PLAN**  
A0.09 3/8" = 1'-0"



**3 BIKE RACKS ELEVATION**  
A0.09 1/2" = 1'-0"



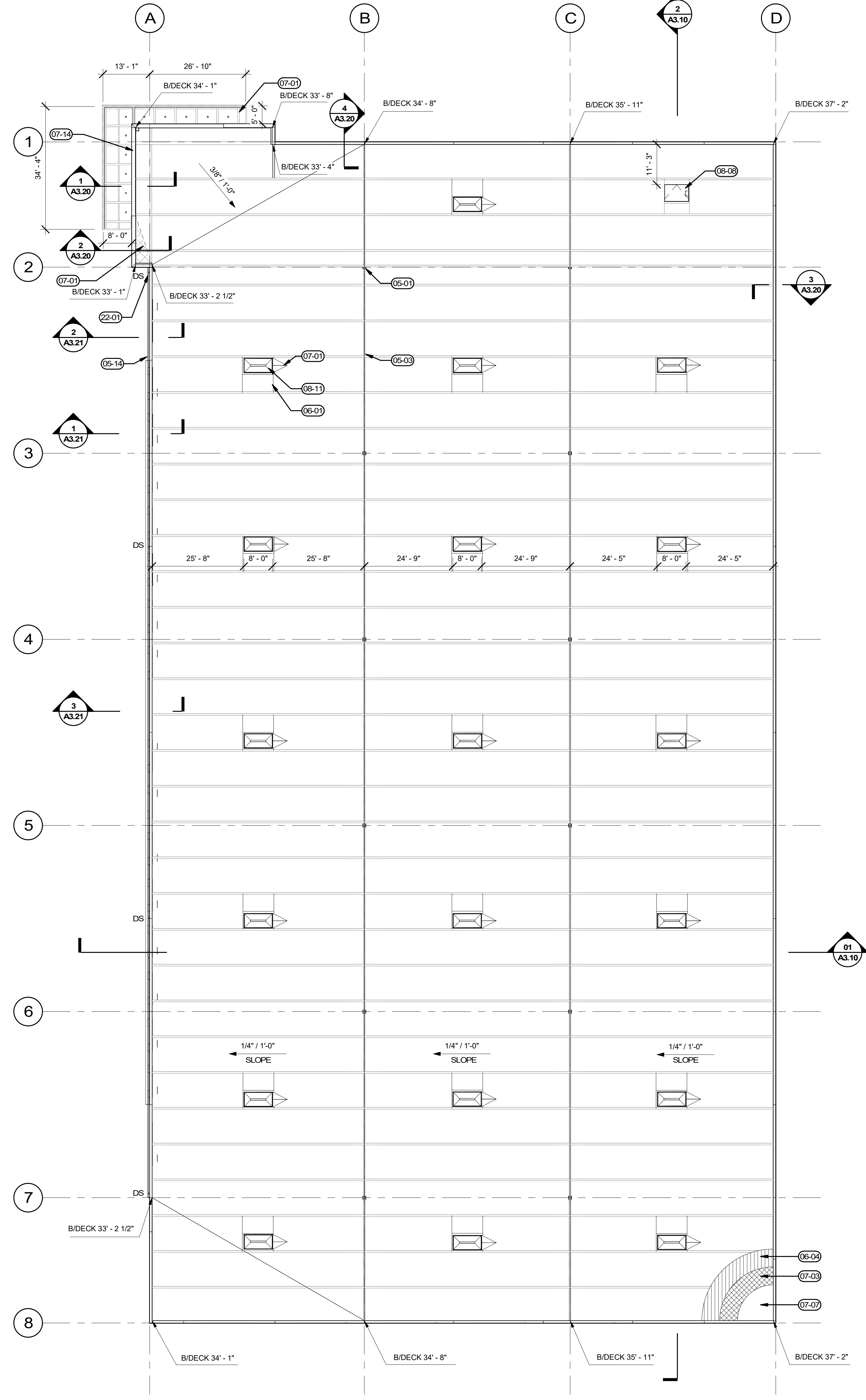
REVISION SCHEDULE		
Delta	Issued As	Issue Date

SHEET TITLE:  
**OVERALL  
FLOOR &  
ROOF PLANS**

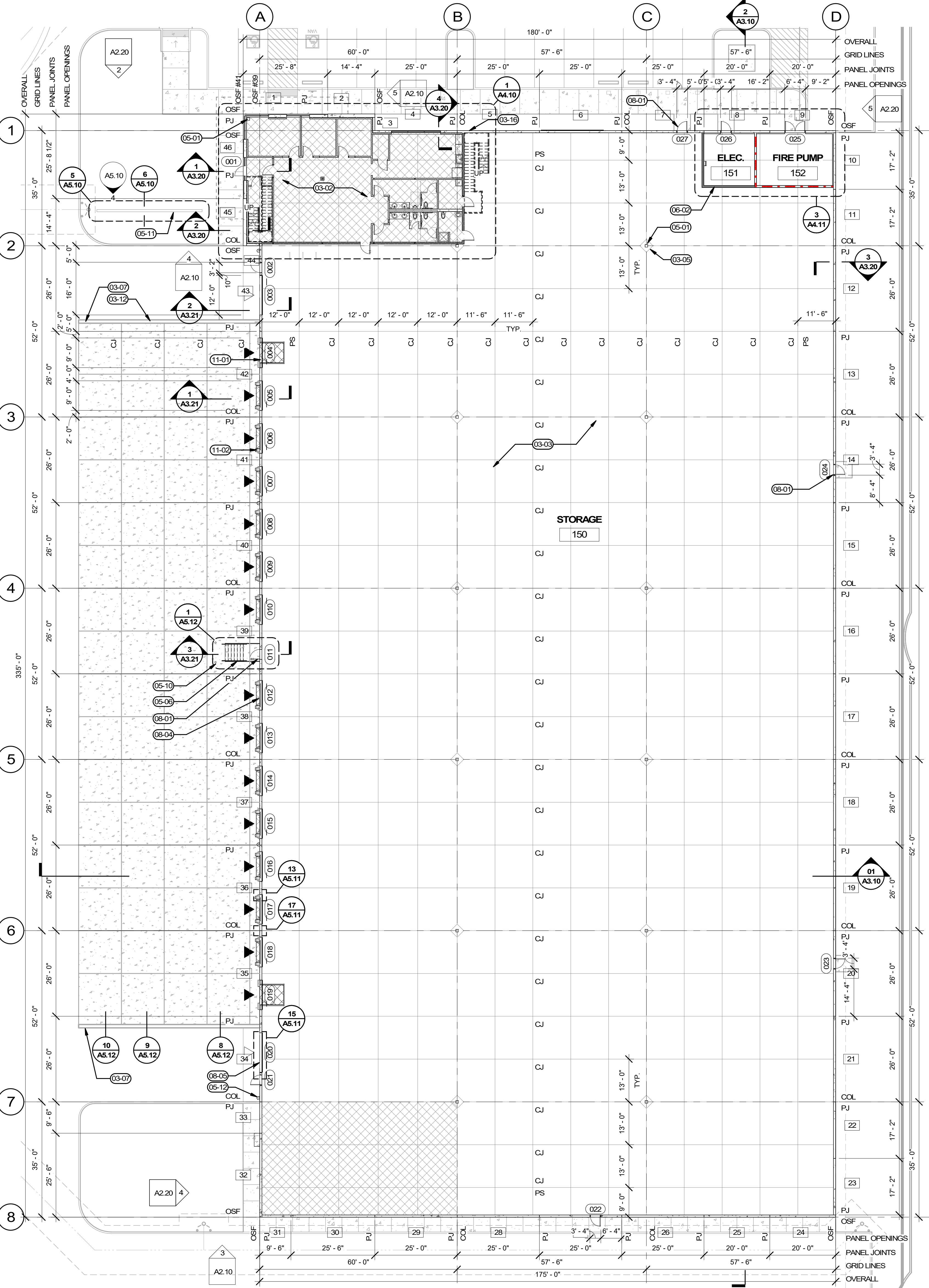
SHEET

**A1.10**

JOB NO. **2200502.00**



**2 OVERALL ROOF PLAN**  
A1.10 1/16" = 1'-0"



**1 OVERALL FLOOR PLAN**  
A1.10 1/16" = 1'-0"

**PROJECT INFORMATION**  
BUILDING AREA: 98,125 SF  
CLEAR HEIGHT: 30' CLEAR  
DOCK DOORS: 15 POSITIONS  
DRIVE IN DOORS: 2 POSITIONS

**WALL TYPES**  
CONCRETE TILT PANEL - SEE STRUCTURAL ELEVATIONS FOR THICKNESSES  
1HR RATED WALL PER 11/A5.20  
FULL HEIGHT WALL PER 12/A5.20  
STICK-PIN INSULATION 10/A5.20  
INTERIOR PARTITION PER 13/A5.20

**GENERAL NOTES - ARCH**  
A. VERIFY AND CONFIRM ALL DIMENSIONS AND CONDITIONS. NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO THE START OF CONSTRUCTION.  
B. SEE STRUCTURAL FOR ADDITIONAL INFORMATION. SEE DETAIL 4/A5.11 FOR SLAB JOINT DETAILS.  
C. INSTALL DOOR ARMOR PER 14/A5.11 AT ALL GRADE ACCESS AND DOCK-HIGH OVERHEAD DOORS.  
D. CALK FLOOR JOINT PER DETAIL 18/A5.11.  
E. CALK DOOR APRON JOINTS PER DETAIL 13/A5.12.  
F. SITE IS SHOWN FOR REFERENCE ONLY. SEE CIVIL FOR ELEVATIONS AND STRUCTURAL FOR ADDITIONAL INFORMATION FOR FUTURE OPENINGS.  
G. PROVIDE DOWNSPOT GUARDS AT ALL LOCATION ALONG BUILDING SOUTH FACE. SEE DETAIL 17/A5.11.  
H. PROVIDE SIGNAGE AS REQUIRED BY LOCAL JURISDICTION, FIRE MARSHAL AND EMERGENCY SERVICES.  
I. SEE DETAIL XXXX FOR DOOR LANDINGS AS OCCUR PER CIVIL.  
J. PROVIDE DOCK DOOR BUMPERS AT ALL 9'X10' DOCK DOORS.

**GENERAL NOTES - ROOF**  
A. VERIFY AND CONFIRM ALL DIMENSIONS AND CONDITIONS. NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO THE START OF CONSTRUCTION.  
B. ALL ROOF ELEVATION SHOWN AT DISTANCE ABOVE FINISH FLOOR AND BASED ON FINISH FLOOR ELEVATION OF 17.07.  
C. PROVIDE 30'-0" CLEAR MINIMUM TO ALL STRUCTURAL MEMBERS, ELECTRICAL FIXTURES, MECHANICAL UNITS AND FIRE SPRINKLER LINES. SEE BUILDING SECTIONS.  
D. PROVIDE FRAMING FOR ROOF ACCESSORIES (SKYLIGHTS, ROOF HATCH AND MECHANICAL) AS REQUIRED IN ACCORDANCE WITH STRUCTURAL.  
E. ROOF STRUCTURE SHOWN FOR REFERENCE ONLY. SEE STRUCTURAL.  
F. SEE DETAIL XXXX FOR PIPE PENETRATION.  
G. SEE DETAIL XXXX FOR MECHANICAL UNIT CURBING INSTALLATION.  
H. SEE DETAIL XXXX FOR TYPICAL ROOF ASSEMBLY.  
I. MAINTAIN 1/4" MIN SLOPE THROUGHOUT ROOF.  
J. ALL ROOF ELEVATIONS ARE TO BOTTOM OF DECK UNLESS NOTED OTHERWISE.  
K. BUILDING IS DESIGNED WITH AN ESFR SPRINKLER SYSTEM FOR CLASS HV NON ENCAPSULATED COMMODITIES PER NFPA 13. SEE FIRE PROTECTION SPECIFICATIONS. FIRE PUMP IS PROPOSED.  
L. CONTRACTOR TO PROVIDE COVERS, ENCLOSURES AND/OR SEALANTS AT ALL ROOF PENETRATIONS, PIPES, CURBS DUCTS, AND CONNECTIONS. GC TO COORDINATE WITH MEP DESIGN BUILD DISCIPLINES.  
M. PROVIDE SPLASH BLOCKS AT DOWNSPOUTS OF ALL ROOF ACCESSORY STRUCTURES.

**SYMBOLS LEGEND**  
CONTROL JOINT  
CONSTRUCTION JOINT  
PANEL JOINT  
DOWNSPOUT  
POUR STRIP  
DOCK OVERHEAD DOOR  
DOCK DRIVE-IN DOOR  
PANEL NUMBER, SEE STRUCTURAL  
UNDERSLAB VAPOR BARRIER

**KEYNOTES**  
03-02 UNDERSLAB VAPOR BARRIER, EXTENTS PER HATCHED AREA, SEE SPECIFICATIONS  
03-03 6" CONCRETE SLAB ON GRADE, SEE STRUCTURAL  
03-05 CONCRETE COLUMN BLOCKOUT, SEE STRUCTURAL  
03-07 MOUNTABLE CONCRETE CURBS AT FINAL 5'-0" OF RETAINING WALL  
03-12 CONCRETE RETAINING WALL WITH MOUNTABLE CURB, SEE DETAILS 7-11/A5.12  
03-16 TILT-UP CONCRETE PANEL, SEE STRUCTURAL  
05-01 HSS COLUMN, SEE STRUCTURAL  
05-03 STEEL GIRDER, SEE STRUCTURAL  
05-06 STEEL ACCESS STAIRS, SEE DETAILS 1-4/A5.12  
05-10 STEEL BOLLARD, SEE DETAIL 8/A5.12  
05-11 PERFORATED ARCHITECTURAL METAL PANEL SCREENING WALL FASTENED TO HSS FRAME PER STRUCT. SEE DETAILS 4-6/A5.10  
05-12 DOWNSPOUT GUARD, SEE DETAIL 17/A5.11  
05-14 SHEET METAL GUTTER TO MATCH PARAPET COPING, SEE DETAIL 11/A5.13

06-01 FRAMING AT ALL ROOF HATCHES, SKYLIGHTS AND ACCESSORIES PER DETAILS, SEE STRUCTURAL  
06-02 RATED WALL - SEE WALL TYPE LEGEND, EXTENDED TO UNDERSIDE OF ROOF DECK ABOVE  
06-04 WOOD ROOF DECK PER STRUCT  
07-01 CRICKET AS REQUIRED FOR MIN 1/4" PER FOOT SLOPE, SEE DETAIL 8/A5.13  
07-03 RIGID INSULATION, SEE TYPICAL ROOF ASSEMBLY 3/A3.10  
07-07 ROOF MEMBRANE, SEE TYPICAL ROOF ASSEMBLY 3/A3.10  
07-14 SHEET METAL PARAPET FLASHING, SEE DETAIL 1/A5.13  
08-01 INSULATED HM PERSONNEL DOOR, PAINT PER ELEVATIONS. SEE DOOR SCHEDULE  
08-04 9'-0" X 10'-0" OHD INSULATED HIGH-LIFT DOCK DOOR, PAINT P-1. SEE DOOR SCHEDULE  
08-05 12'-0" X 14'-0" OHD INSULATED DRIVE-IN DOOR WITH 3'-0" X 7'-0" PERSONNEL DOOR, PAINT P-1, WITH 1" INSULATED TRANSOM WINDOW ABOVE. SEE DOOR SCHEDULE  
08-08 ROOF ACCESS, SEE DETAILS 14-15/A5.13

08-11 4'X8' SKYLIGHT WITH BURGLAR BAR. PROVIDE CRICKET AT HIGH SIDE W/ 1/2" MIN SLOPE. SEE DETAIL 3/A5.13. COORDINATE LAYOUT WITH SPRINKLER CONTRACTOR  
11-01 DOCK PIT LEVELER, SEE SPECIFICATION & 8/A5.20 FOR PIT DETAIL  
11-02 EDGE OF DOCK LEVELER, SEE SPECIFICATIONS  
22-01 6" DIAMETER DOWNSPOUT, SEE DETAIL XXXX. PAINT TO MATCH BACKGROUND COLOR, SEE ELEVATIONS



REVISION SCHEDULE		
Delta	Issued As	Issue Date
A	REV 1	7/26/22

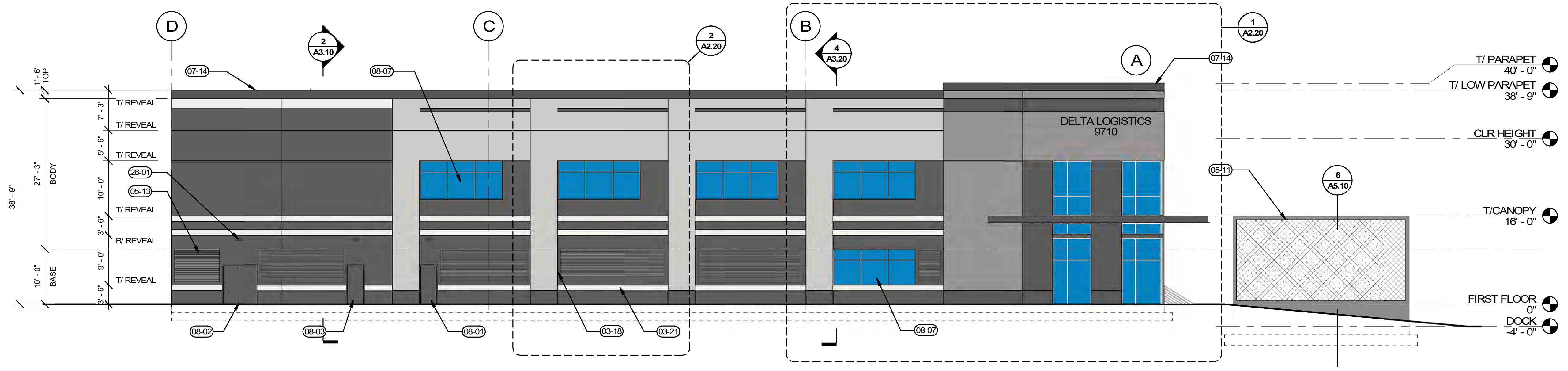
SHEET TITLE:  
**BUILDING ELEVATIONS**

SHEET

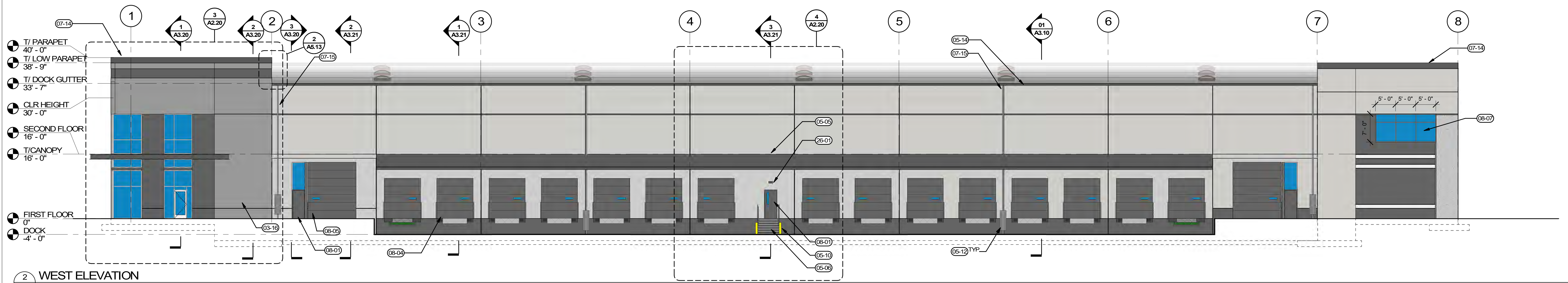
**A2.10**

JOB NO. **2200502.00**

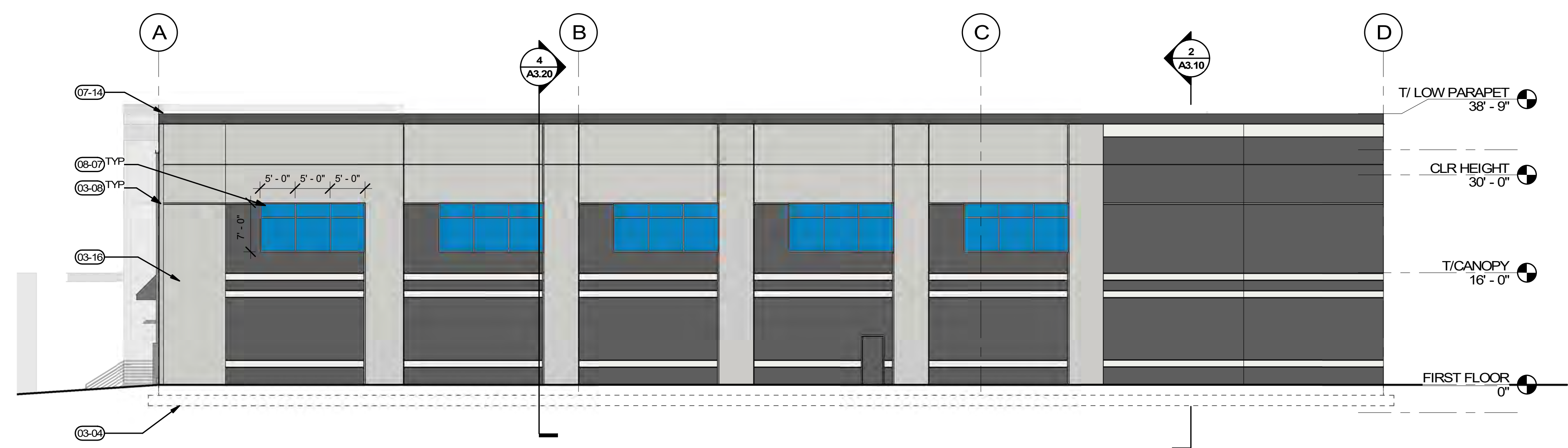
- KEYNOTES**
- 03-04 CONCRETE FOOTING. SEE STRUCTURAL.
  - 03-08 WRAP REVEALS AROUND EDGE OF CONCRETE PANEL.
  - 03-16 TILT-UP CONCRETE PANEL. SEE STRUCTURAL
  - 03-18 1" REVEAL "A", SEE DETAIL S/A5.11
  - 03-21 12" REVEAL W/ 1/2" DEPTH. SEE DETAIL S/A5.11
  - 05-05 CONTINUOUS GFS DOCK CANOPY WITH SHEET METAL ROOF. SEE DETAIL 7/A5.13
  - 05-06 STEEL ACCESS STAIRS. SEE DETAILS 1-4/A5.12
  - 05-10 STEEL BOLLARD. SEE DETAIL 6/A5.12
  - 05-11 PERFORATED ARCHITECTURAL METAL PANEL SCREENING WALL FASTENED TO HSS FRAME PER STRUCT. SEE DETAILS 4-6/A5.10
  - 05-12 DOWNSPOUT GUARD. SEE DETAIL 17/A5.11
  - 05-13 PERFORATED ARCHITECTURAL METAL PANELS FASTENED TO CONCRETE WALLS WITH VERT. HAT CHANNELS. SEE DETAIL 7/A5.10
  - 05-14 SHEET METAL PARAPET FLASHING. SEE DETAIL 1/A5.13
  - 07-14 SHEET METAL PARAPET FLASHING. SEE DETAIL 1/A5.13
  - 07-15 DOWNSPOUT. SEE DETAIL XXXX
  - 08-01 INSULATED HM PERSONNEL DOOR. PAINT PER ELEVATIONS. SEE DOOR SCHEDULE
  - 08-02 INSULATED DOUBLE HM PERSONNEL DOOR. PAINT PER ELEVATIONS. SEE DOOR SCHEDULE
  - 08-03 INSULATED HM PERSONNEL DOOR AT ELECTRICAL ROOM. PAINT PER ELEVATIONS. SEE DOOR SCHEDULE
  - 08-04 9'-0" X 10'-0" OHD INSULATED HIGH-LIFT DOCK DOOR. PAINT P-1. SEE DOOR SCHEDULE
  - 08-05 12'-0" X 14'-0" OHD INSULATED DRIVE-IN DOOR WITH 3'-0" X 7'-0" PERSONNEL DOOR. PAINT P-1, WITH 1" INSULATED TRANSOM WINDOW ABOVE. SEE DOOR SCHEDULE
  - 08-07 STOREFRONT WINDOW. SEE DETAILS 1-3/A5.20
  - 26-01 EXTERIOR LIGHT. DESIGN-BUILD ELECTRICAL TO VERIFY ALL REQUIREMENTS. COORDINATE WITH A/E IF LOCATIONS ARE TO CHANGE. SEE CIVIL FOR ADDITIONAL INFORMATION. SHOE BOX STYLE. DARK ANODIZED FINISH AND FULL CUT OFF.



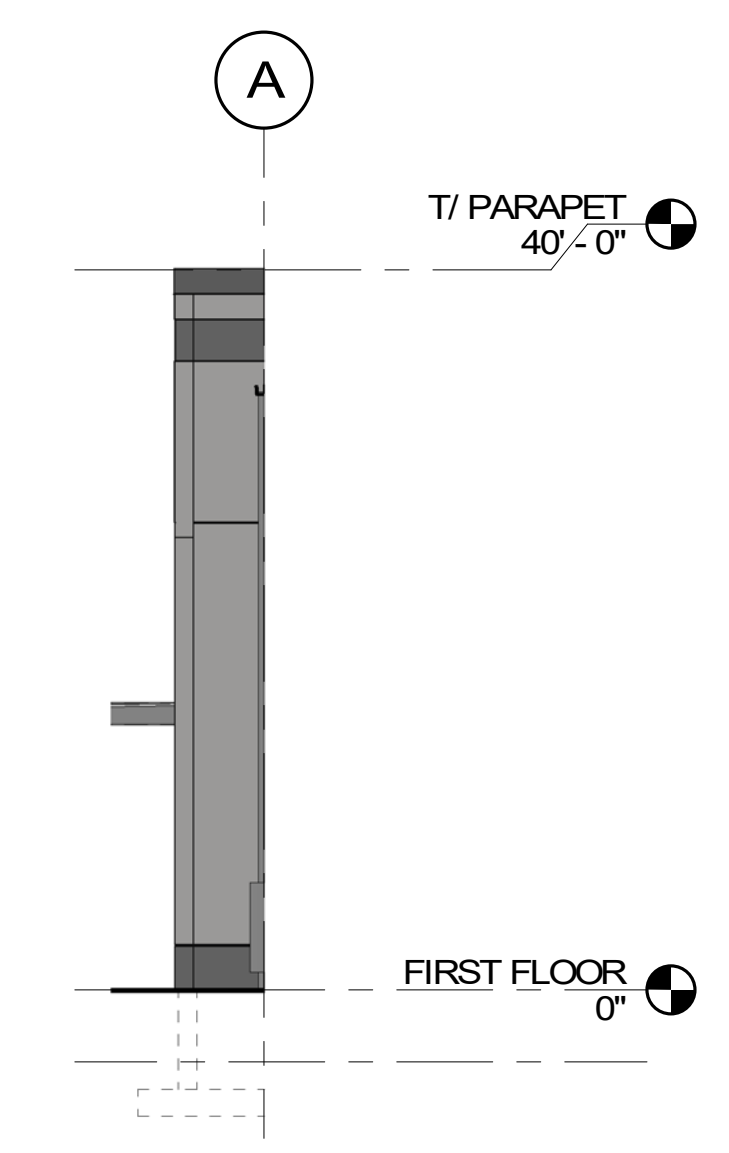
**1 NORTH ELEVATION**  
A2.10 / 3/32" = 1'-0"



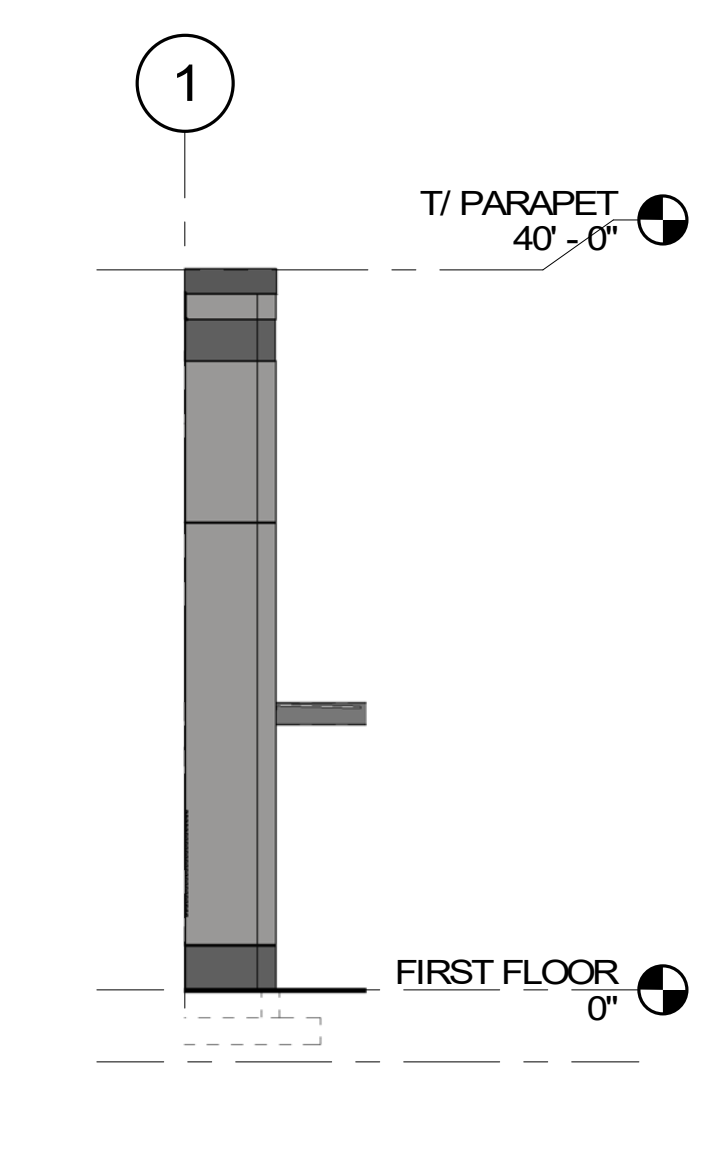
**2 WEST ELEVATION**  
A2.10 / 3/32" = 1'-0"



**3 SOUTH ELEVATION**  
A2.10 / 3/32" = 1'-0"



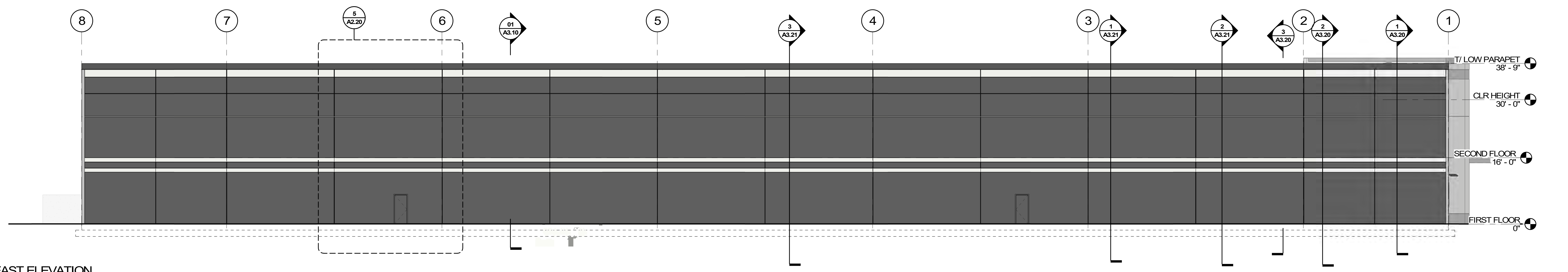
**4 SOUTH RETURN WALL**  
A2.10 / 3/32" = 1'-0"



**5 EAST RETURN WALL**  
A2.10 / 3/32" = 1'-0"

**PAINT LEGEND**

<span style="display: inline-block; width: 20px; height: 10px; background-color: #f0f0f0; border: 1px solid black;"></span>	SW 7006 / EXTRA WHITE
<span style="display: inline-block; width: 20px; height: 10px; background-color: #cccccc; border: 1px solid black;"></span>	SW 7667 / ZIRCON
<span style="display: inline-block; width: 20px; height: 10px; background-color: #808080; border: 1px solid black;"></span>	SW 7670 / GRAY SHINGLE
<span style="display: inline-block; width: 20px; height: 10px; background-color: #404040; border: 1px solid black;"></span>	SW 7674 / PEPPER CORN



**6 EAST ELEVATION**  
A2.10 / 3/32" = 1'-0"

















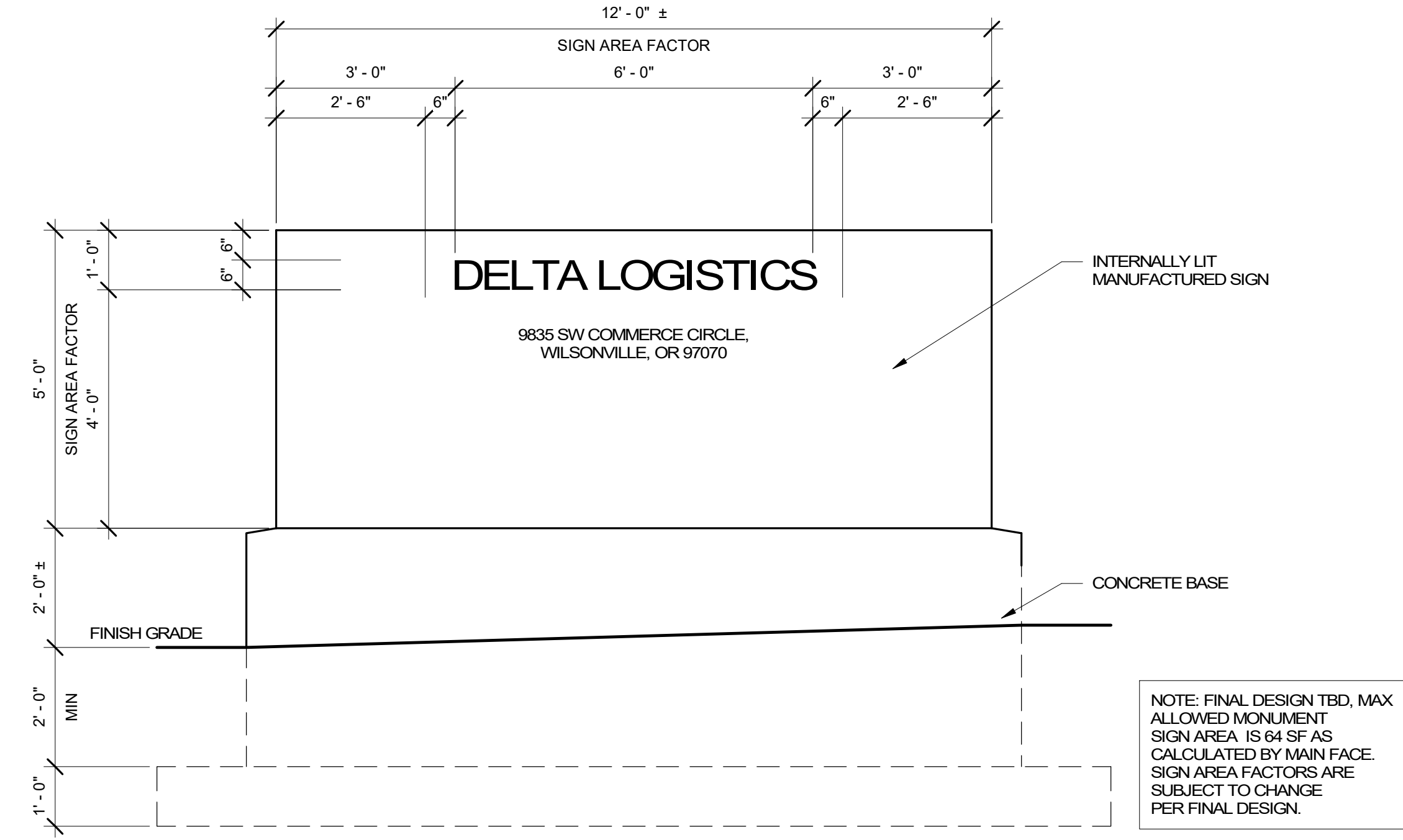




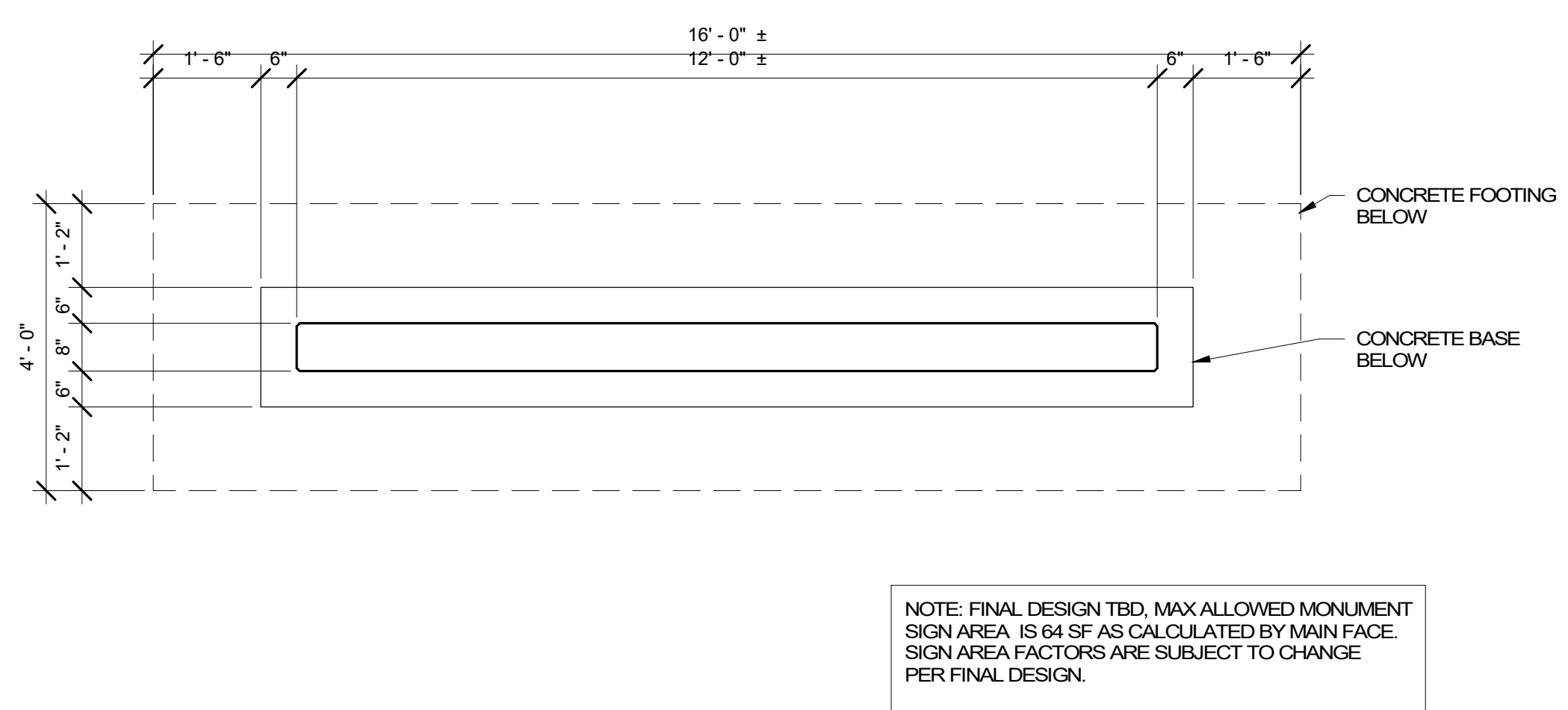




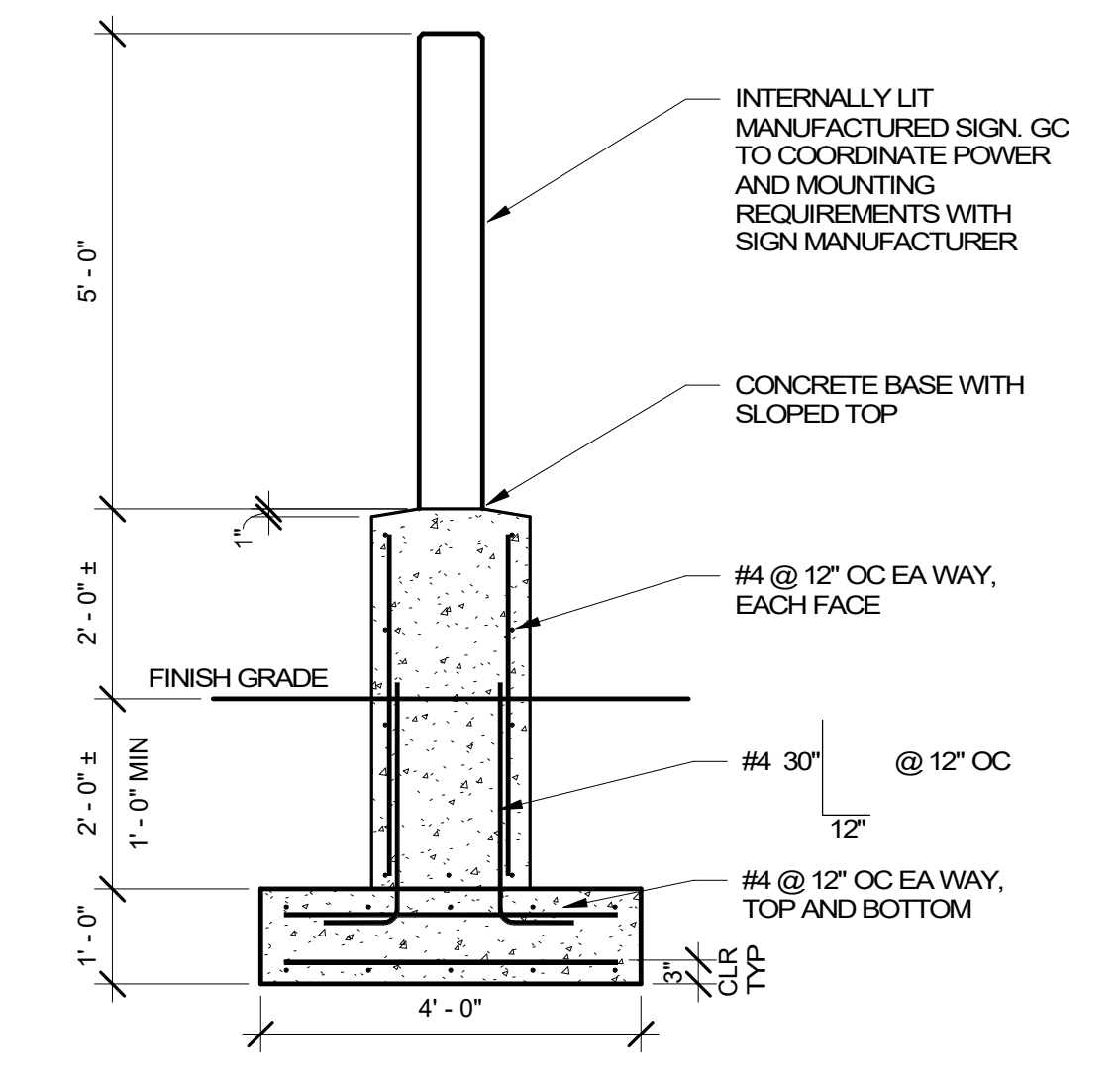




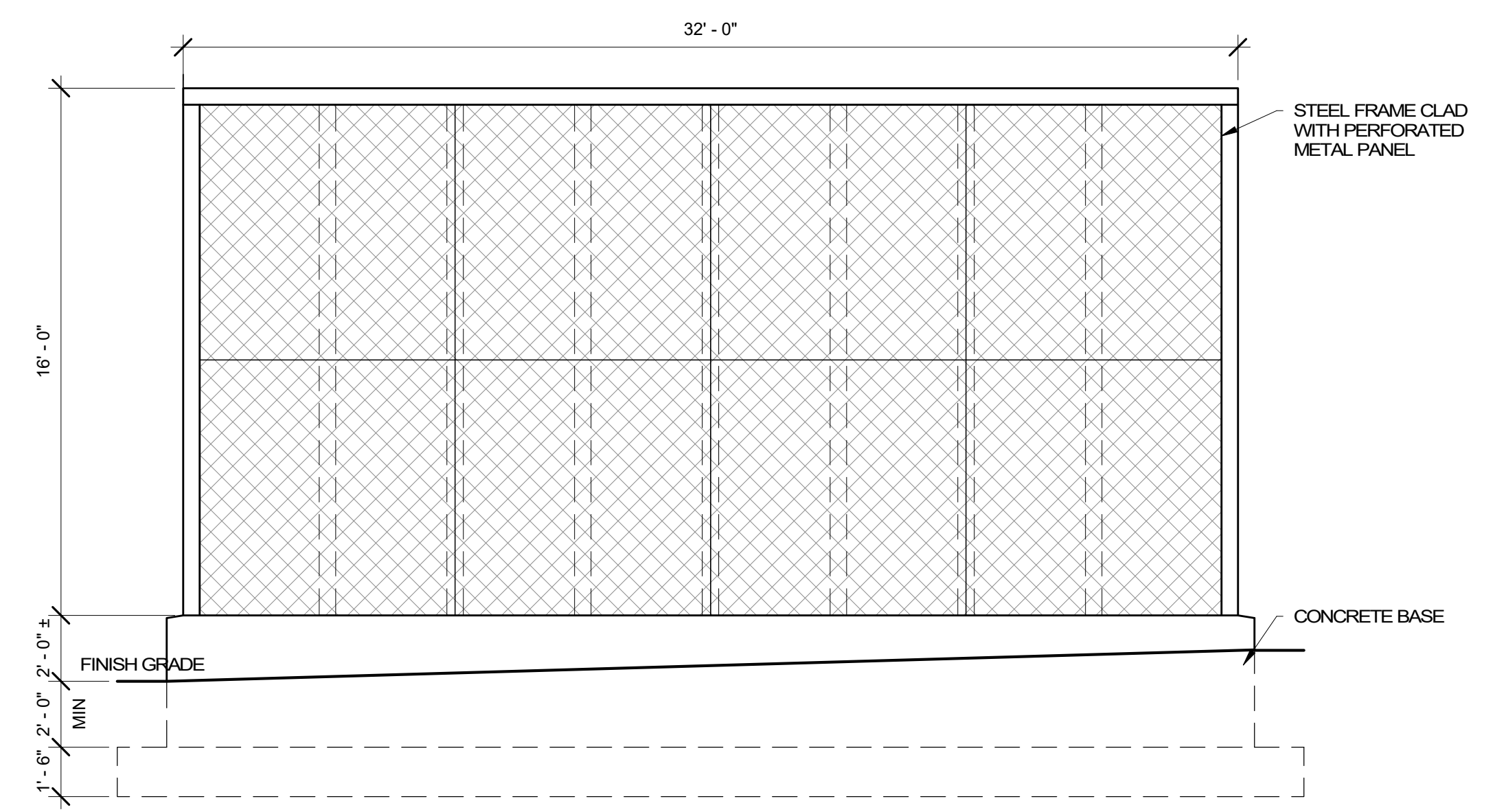
1 MONUMENT SIGN ELEVATION  
AS.10 1/2" = 1'-0"



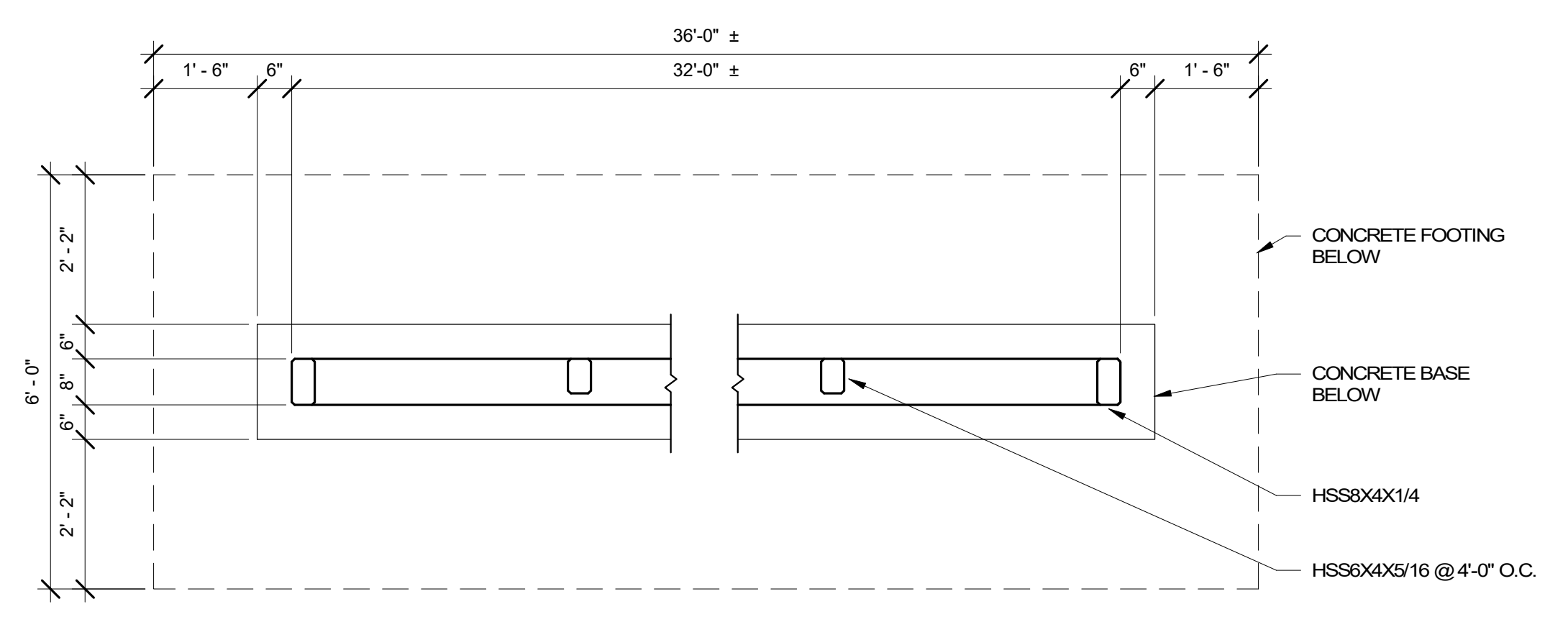
2 MONUMENT SIGN PLAN  
AS.10 1/2" = 1'-0"



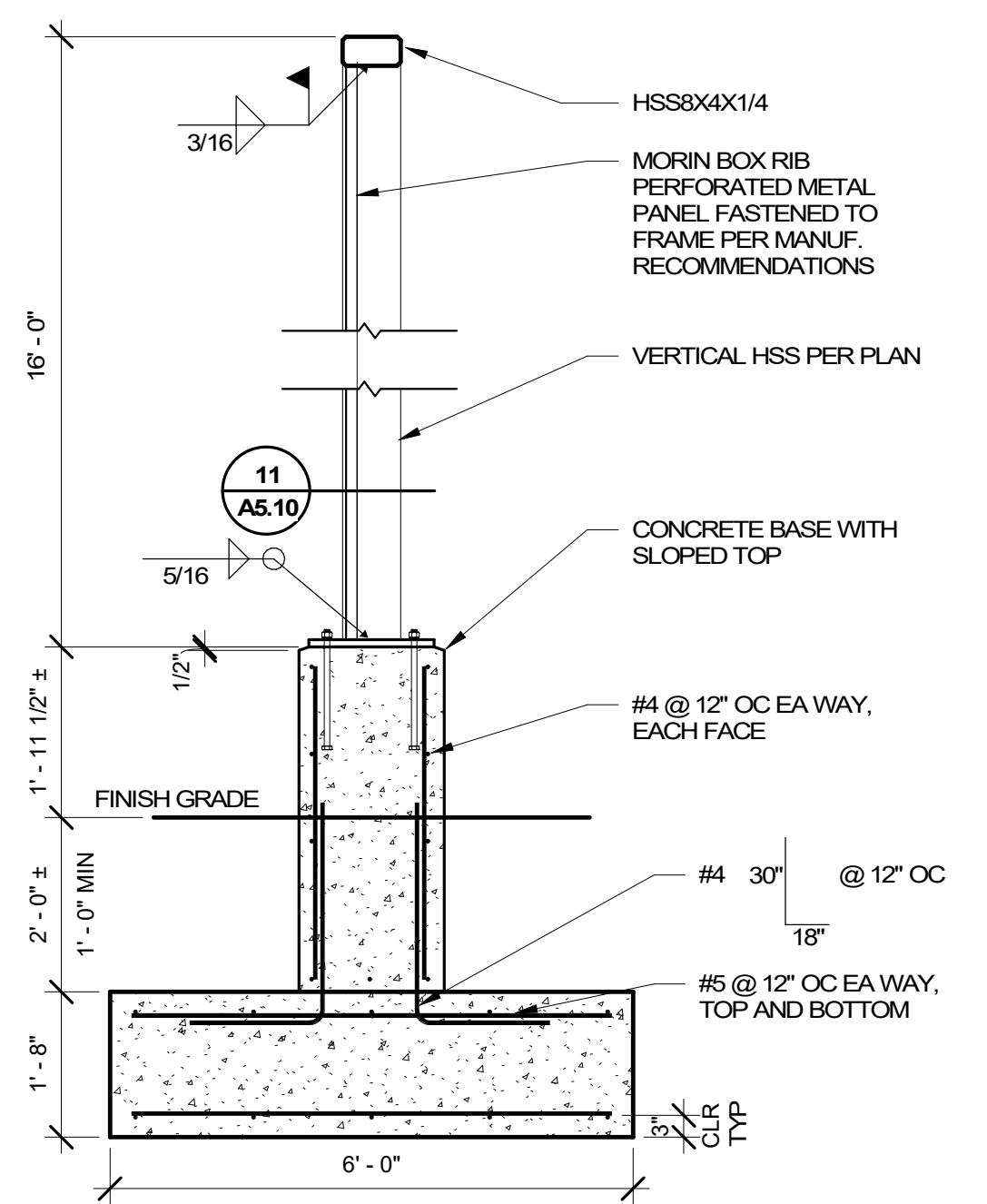
3 MONUMENT SIGN SECTION  
AS.10 1/2" = 1'-0"



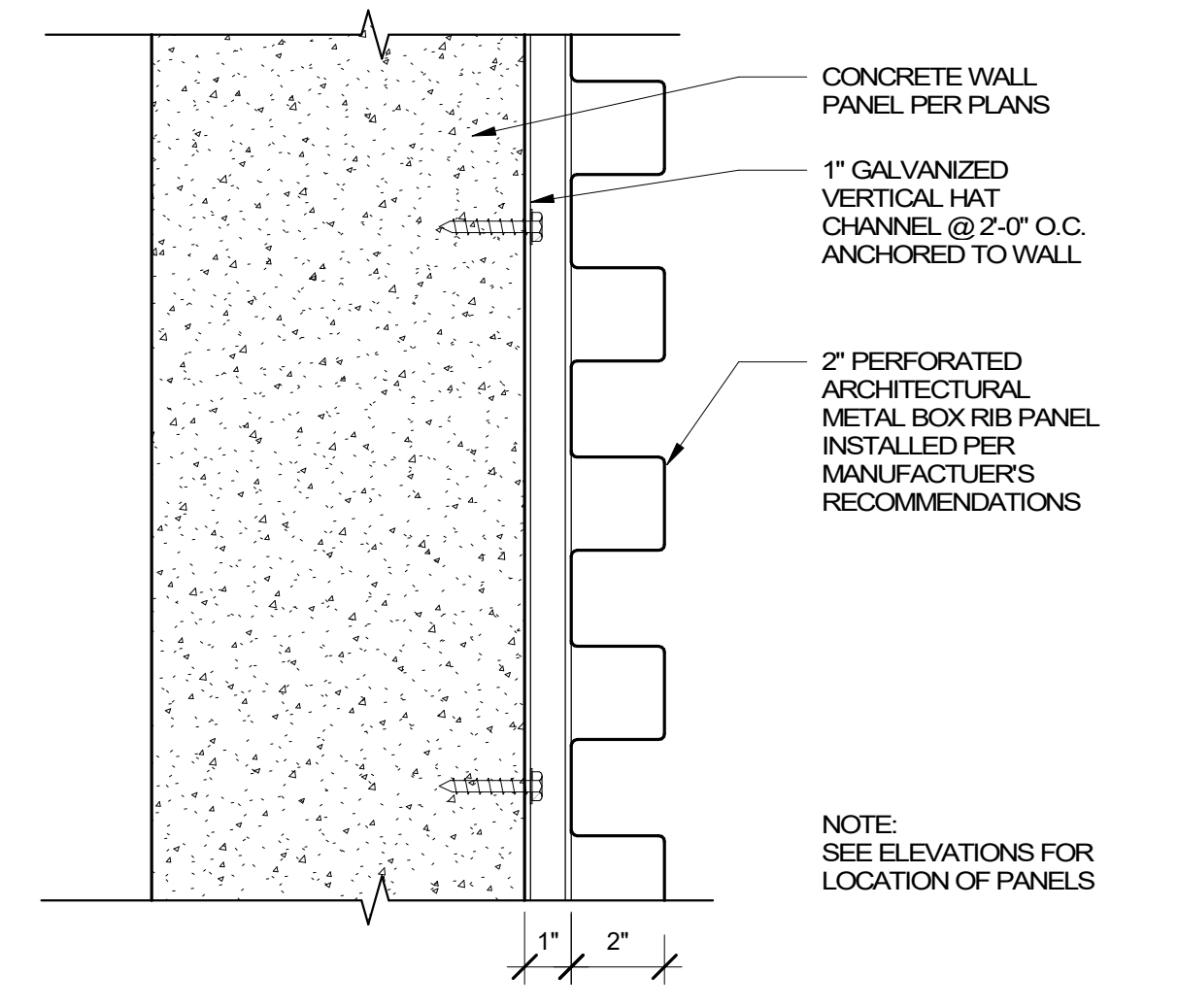
4 SCREENING WALL ELEVATION  
AS.10 1/4" = 1'-0"



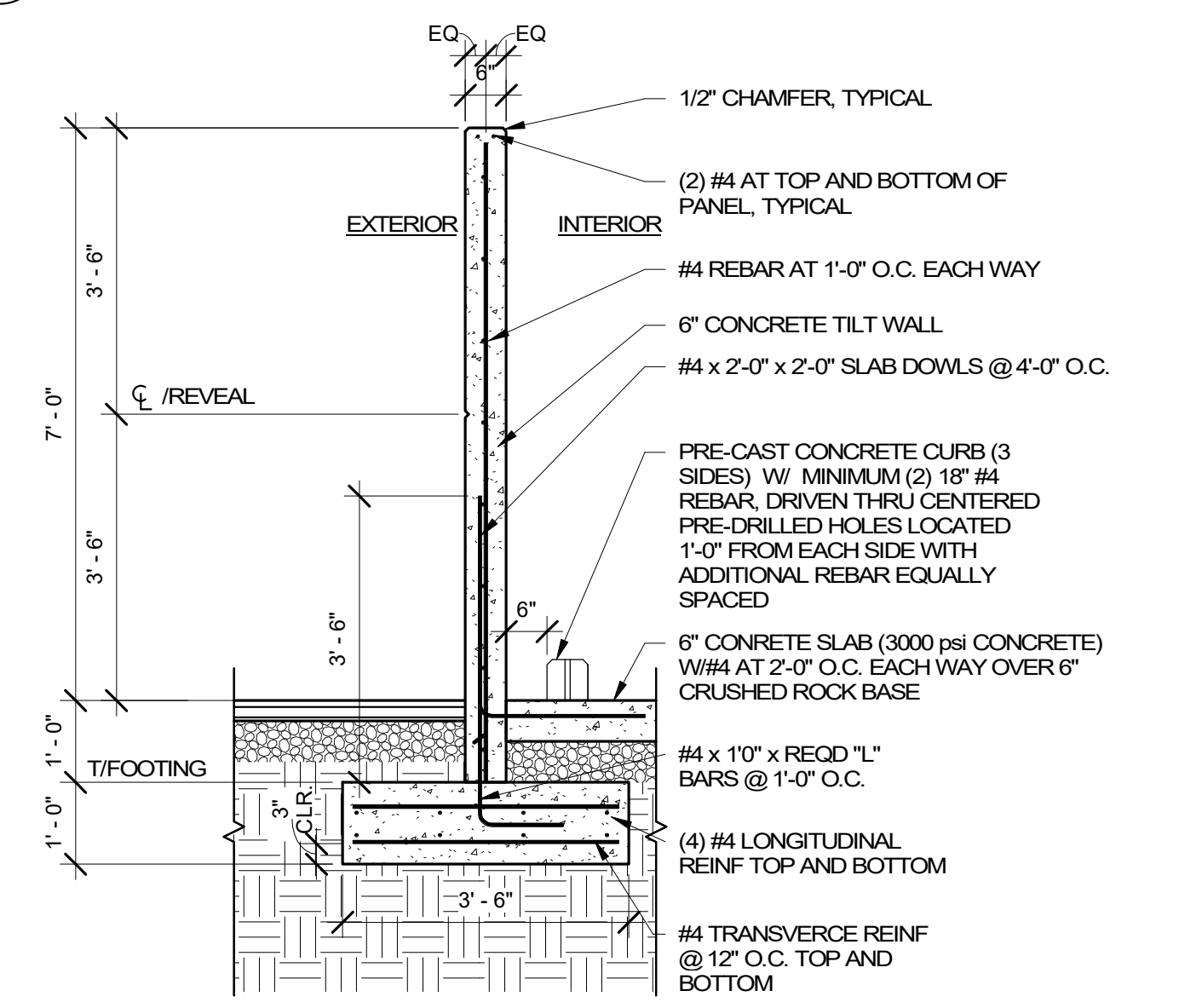
5 SCREENING WALL PLAN  
AS.10 1/2" = 1'-0"



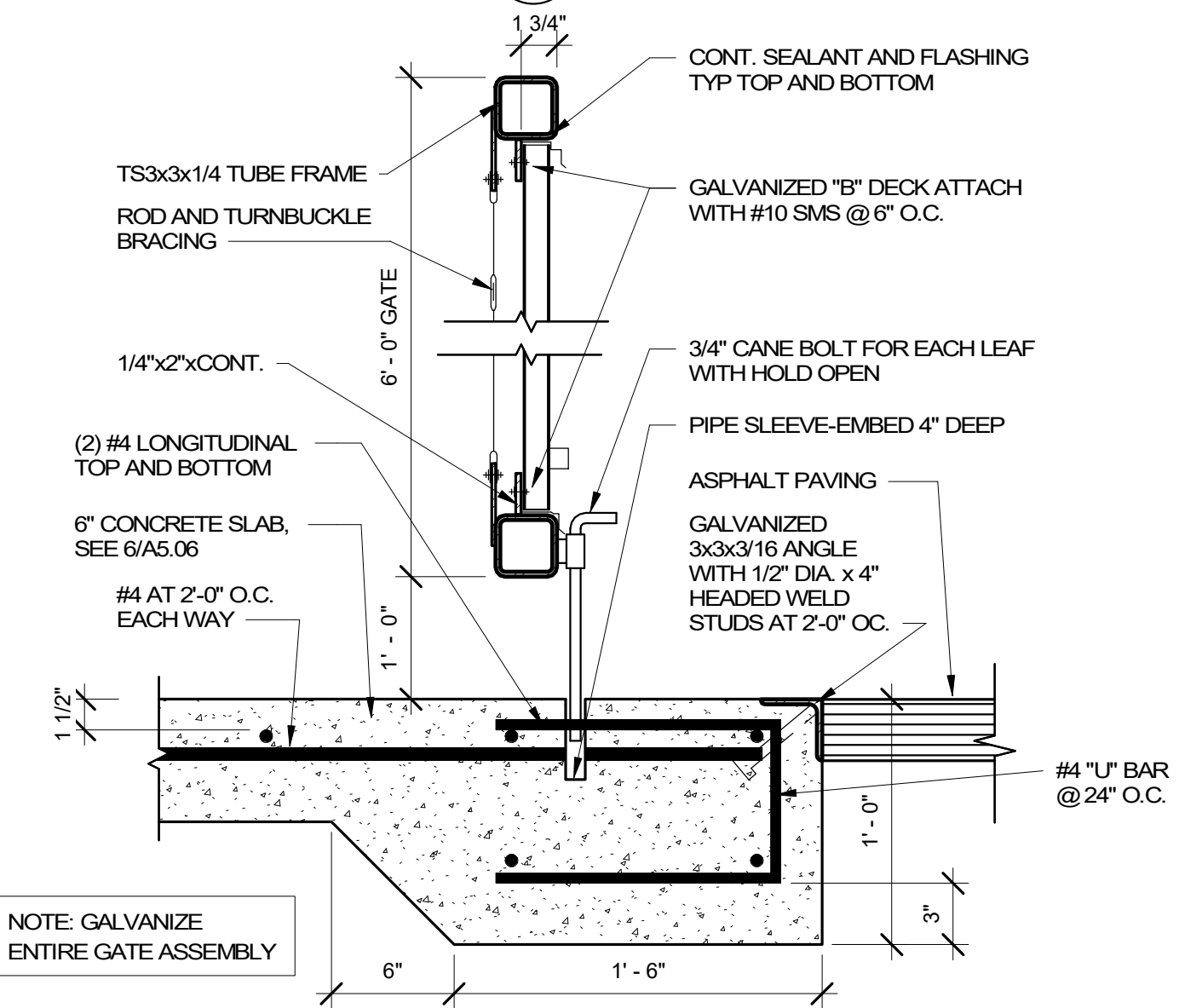
6 SCREENING WALL SECTION  
AS.10 1/2" = 1'-0"



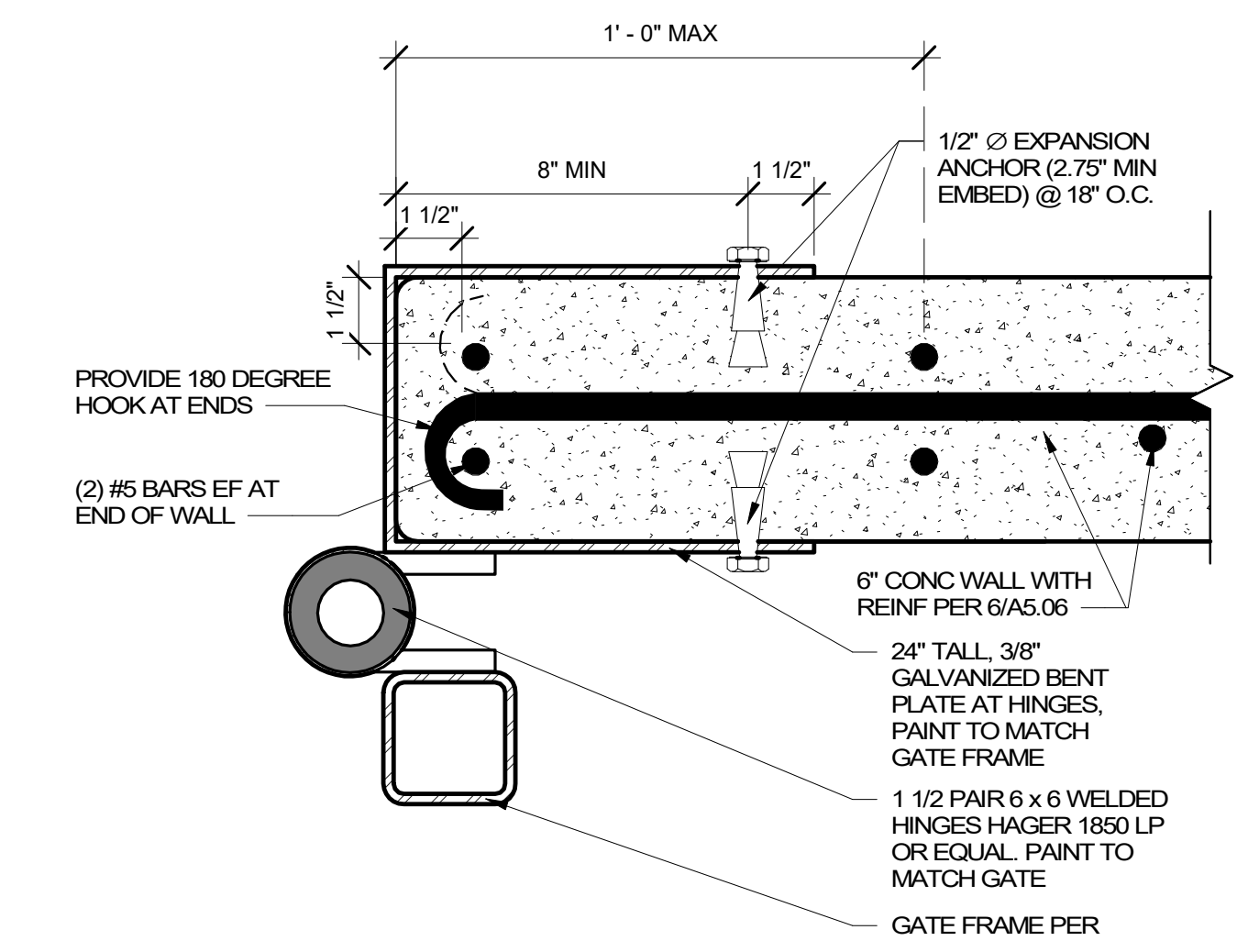
7 WALL PANEL APPLIQUE  
AS.10 3" = 1'-0"



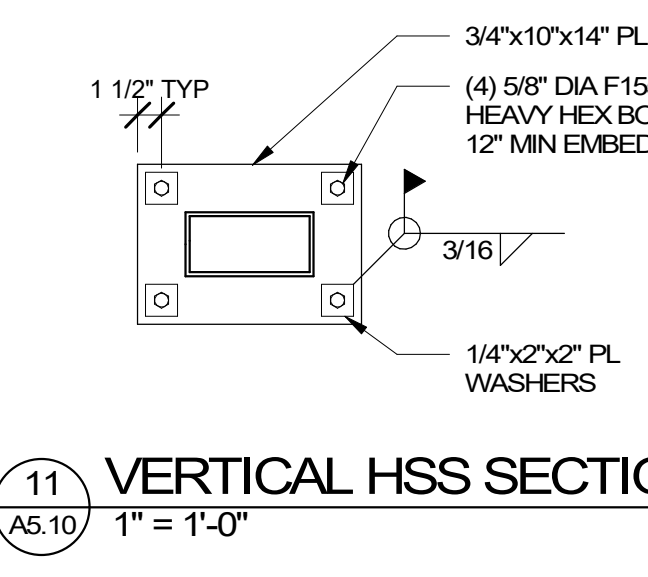
8 TRASH ENCLOSURE WALL  
AS.10 1/2" = 1'-0"



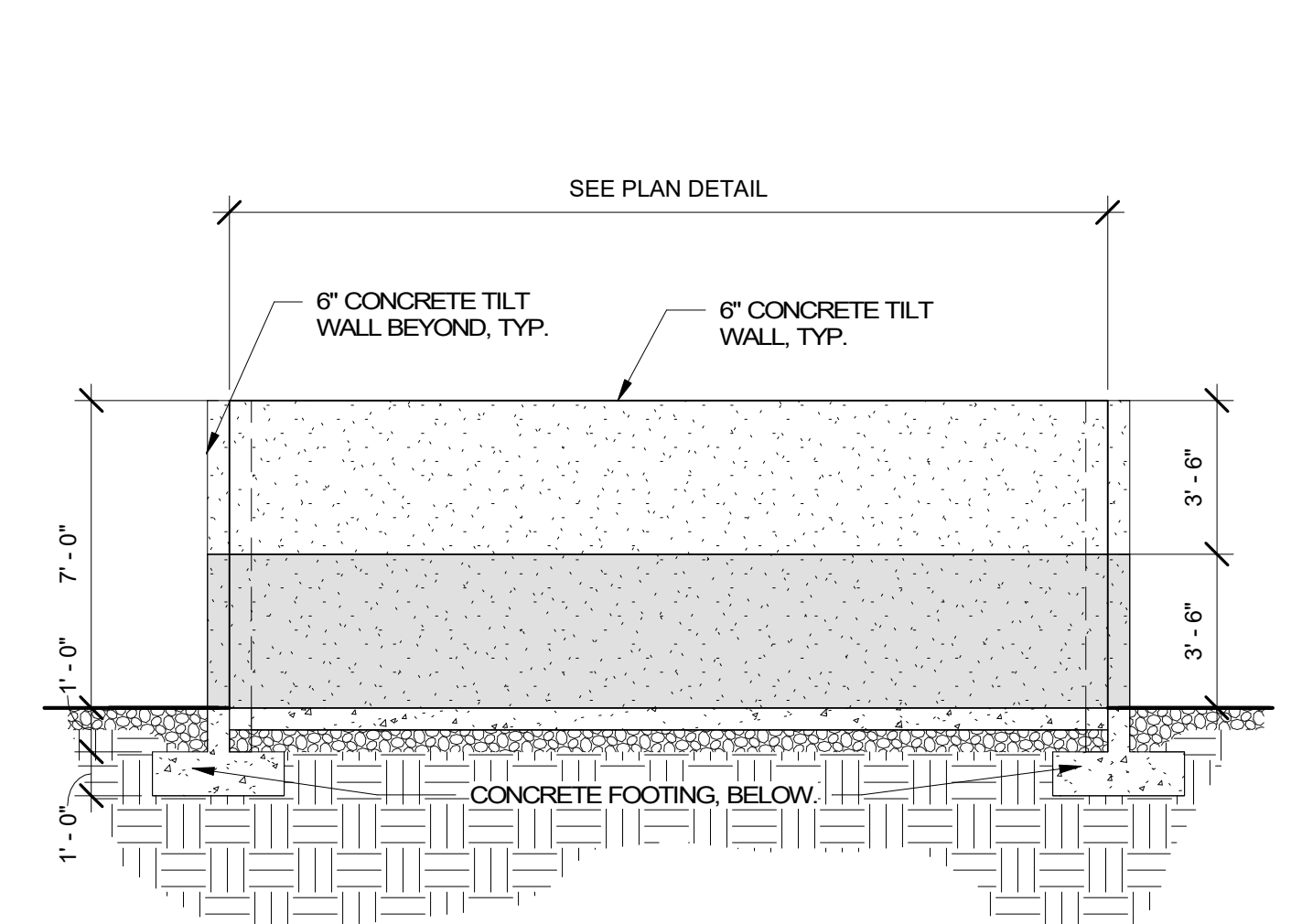
9 GATE SECTION  
AS.10 1 1/2" = 1'-0"



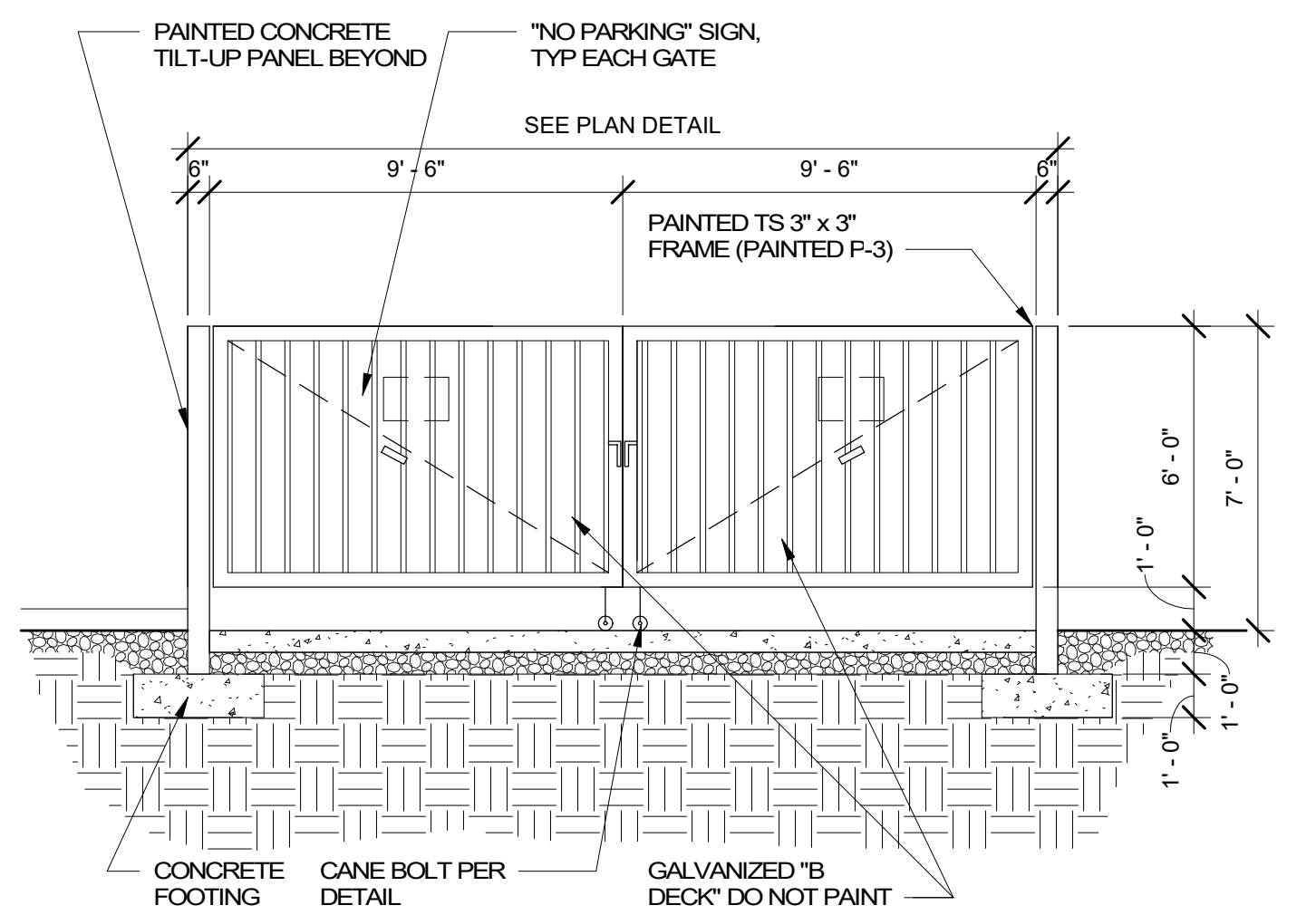
10 HINGE CONNECTION  
AS.10 3" = 1'-0"



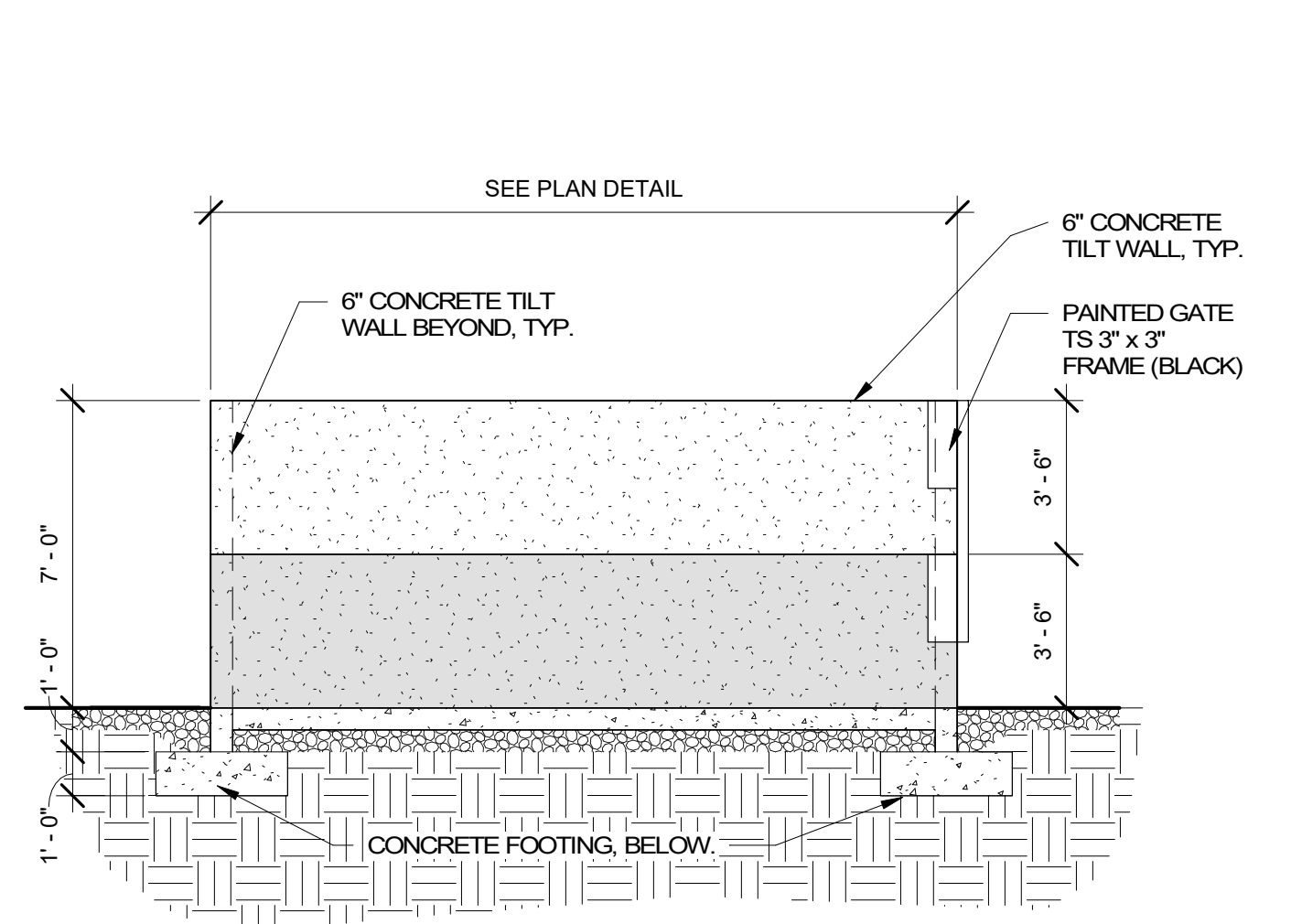
11 VERTICAL HSS SECTION  
AS.10 1" = 1'-0"



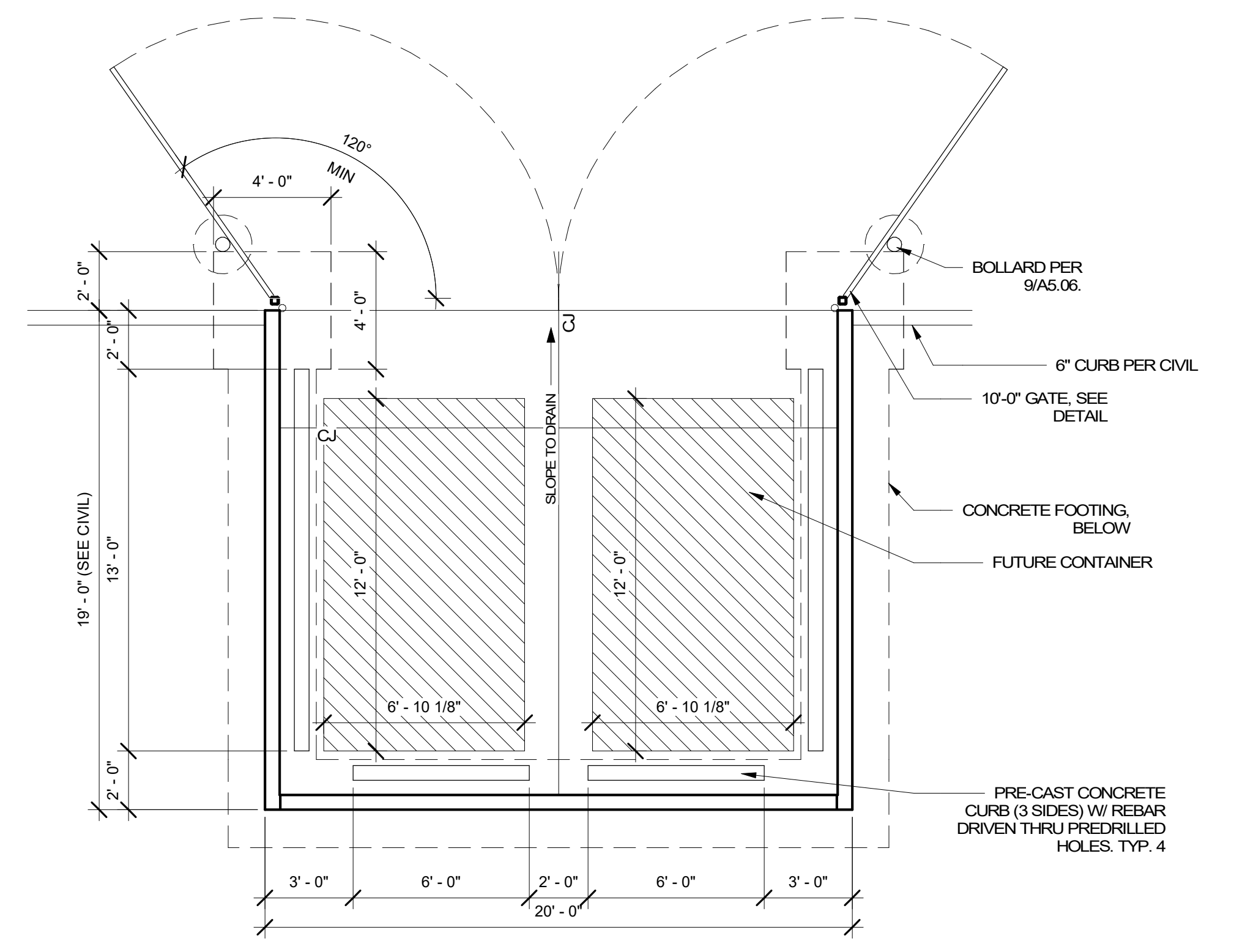
12 TRASH ENCLOSURE REAR ELEVATION  
AS.10 1/4" = 1'-0"



13 TRASH ENCLOSURE FRONT ELEVATION  
AS.10 1/4" = 1'-0"



14 TRASH ENCLOSURE SIDE ELEVATION  
AS.10 1/4" = 1'-0"



15 TRASH ENCLOSURE PLAN  
AS.10 1/4" = 1'-0"



MACKENZIE  
2023 ALL RIGHTS RESERVED  
THESE DRAWINGS ARE THE PROPERTY OF  
MACKENZIE AND ARE NOT TO BE USED  
OR REPRODUCED IN ANY MANNER,  
WITHOUT PRIOR WRITTEN PERMISSION.

REVISION SCHEDULE		
Delta	Issued As	Issue Date
A	REV 1	7/26/22

SHEET TITLE:  
**SITE DETAILS**

SHEET

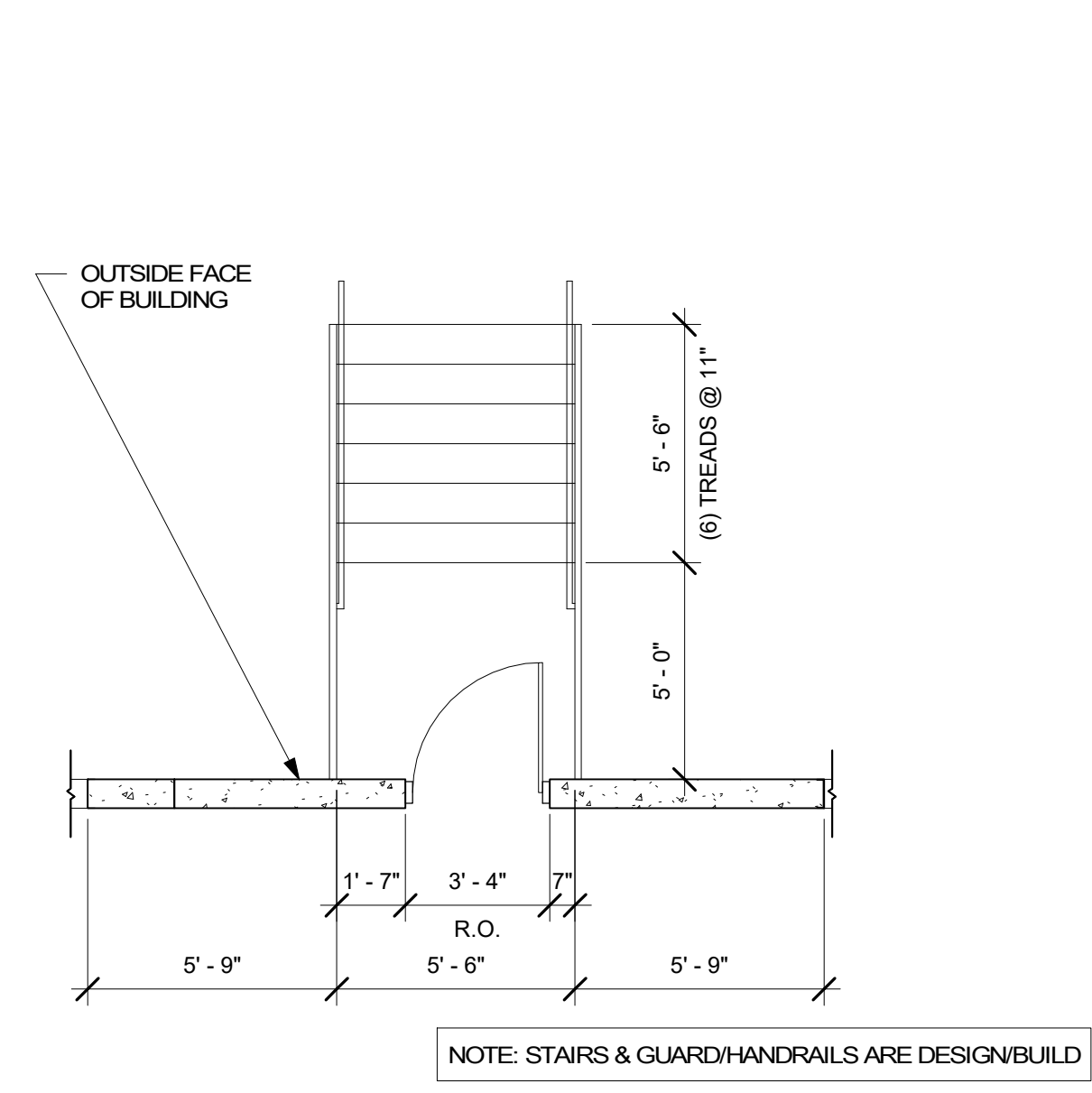
**A5.10**

JOB NO. **2200502.00**

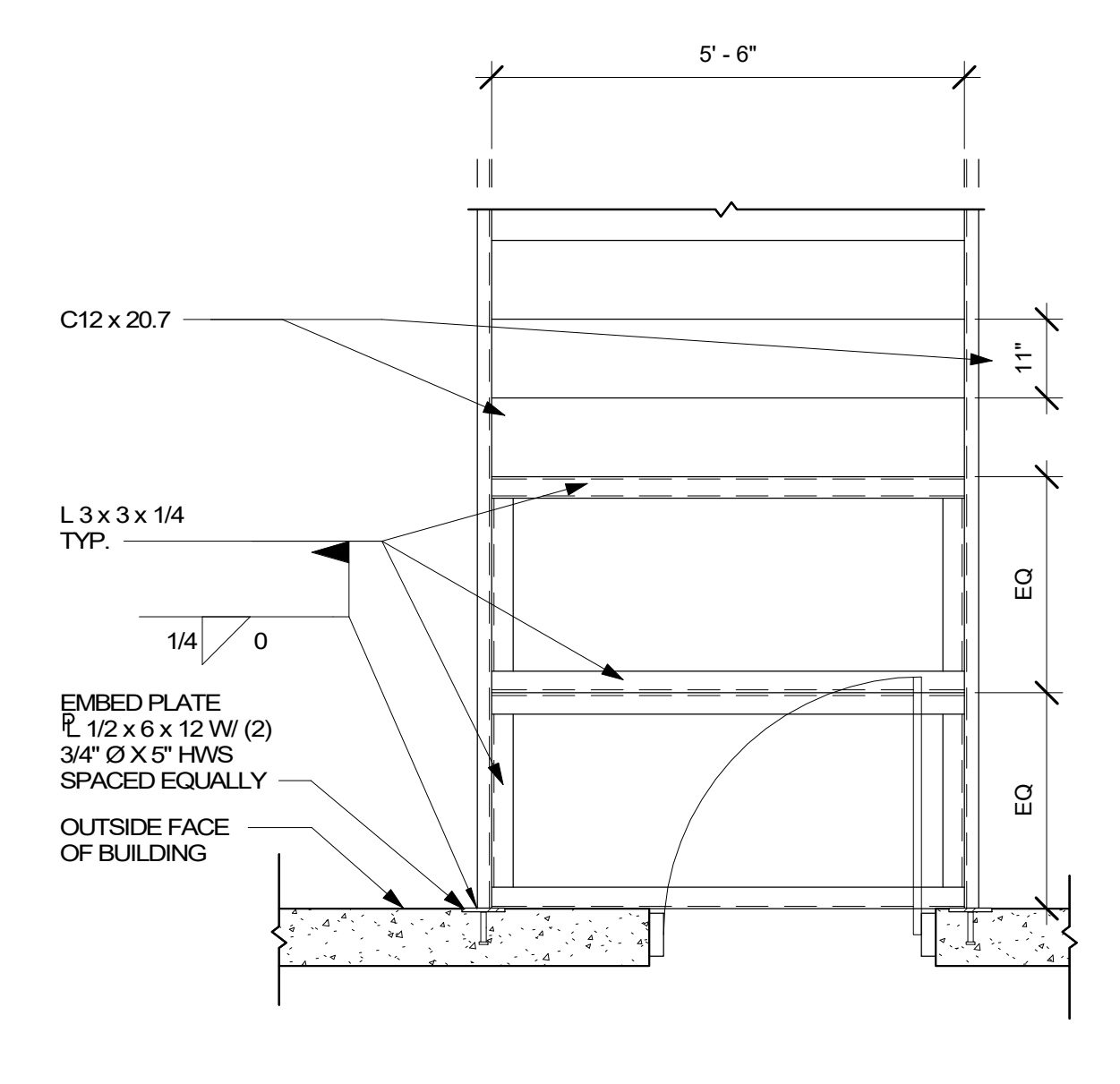




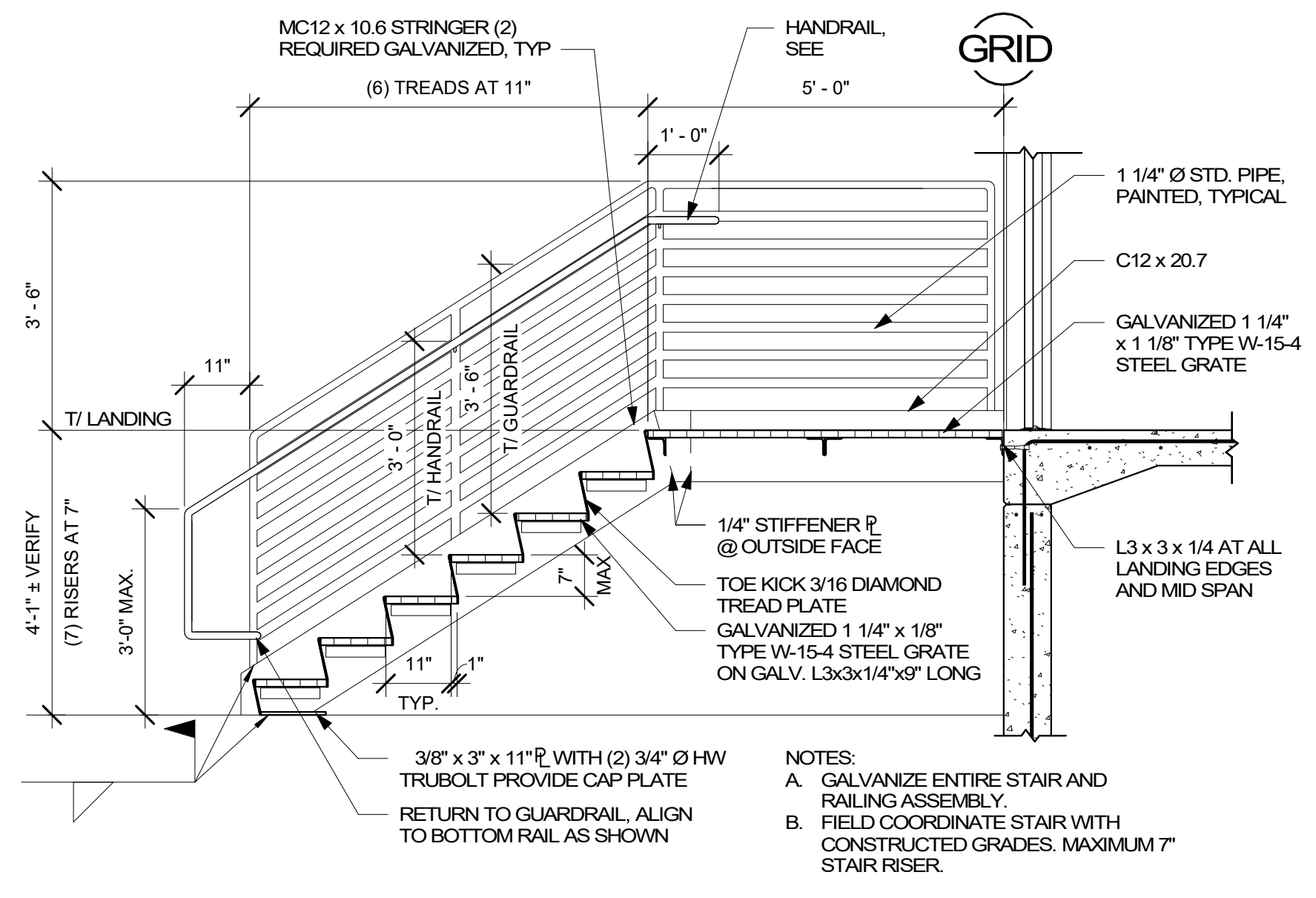




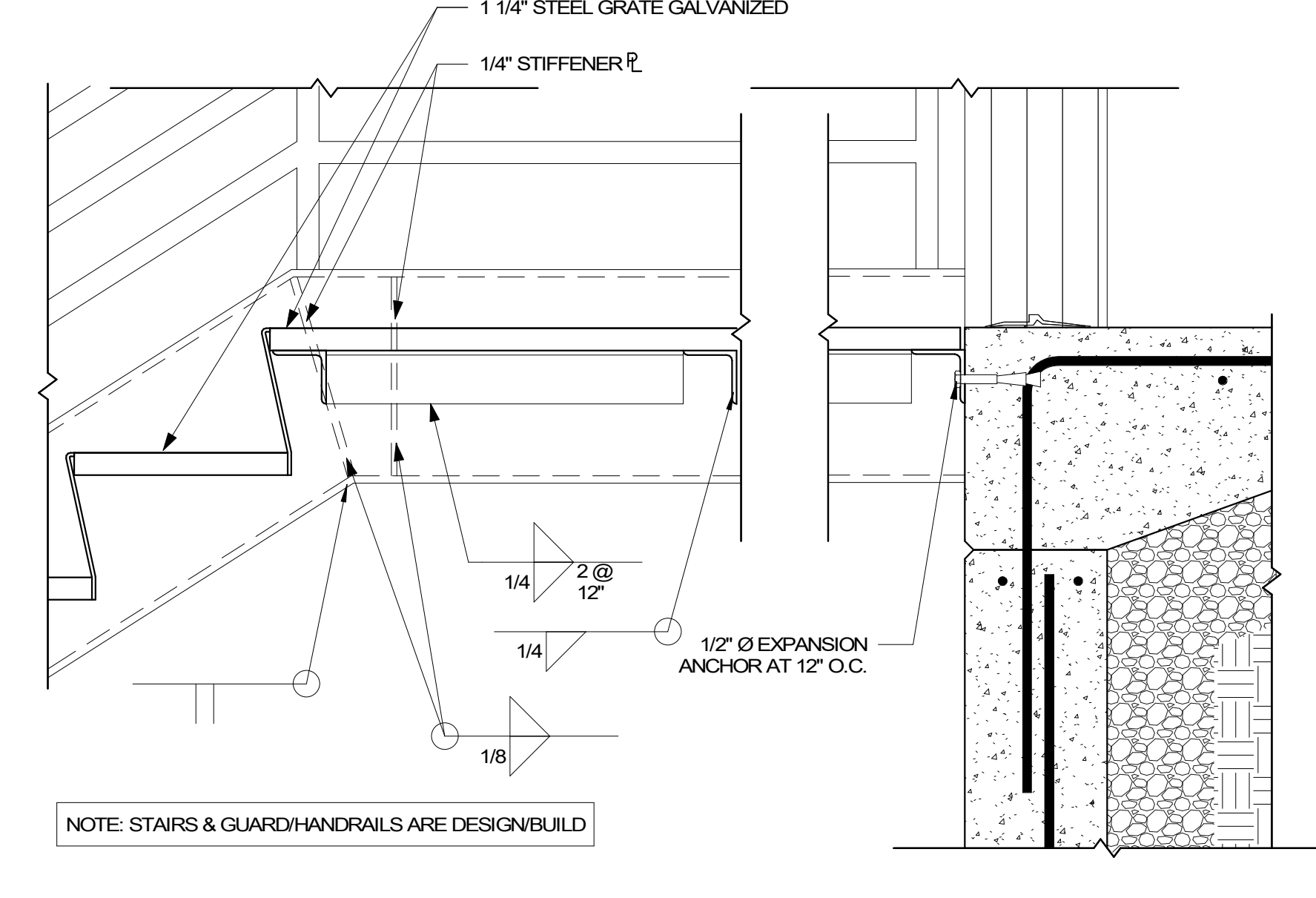
**1 METAL STAIR PLAN**  
A5.12 1/4" = 1'-0"



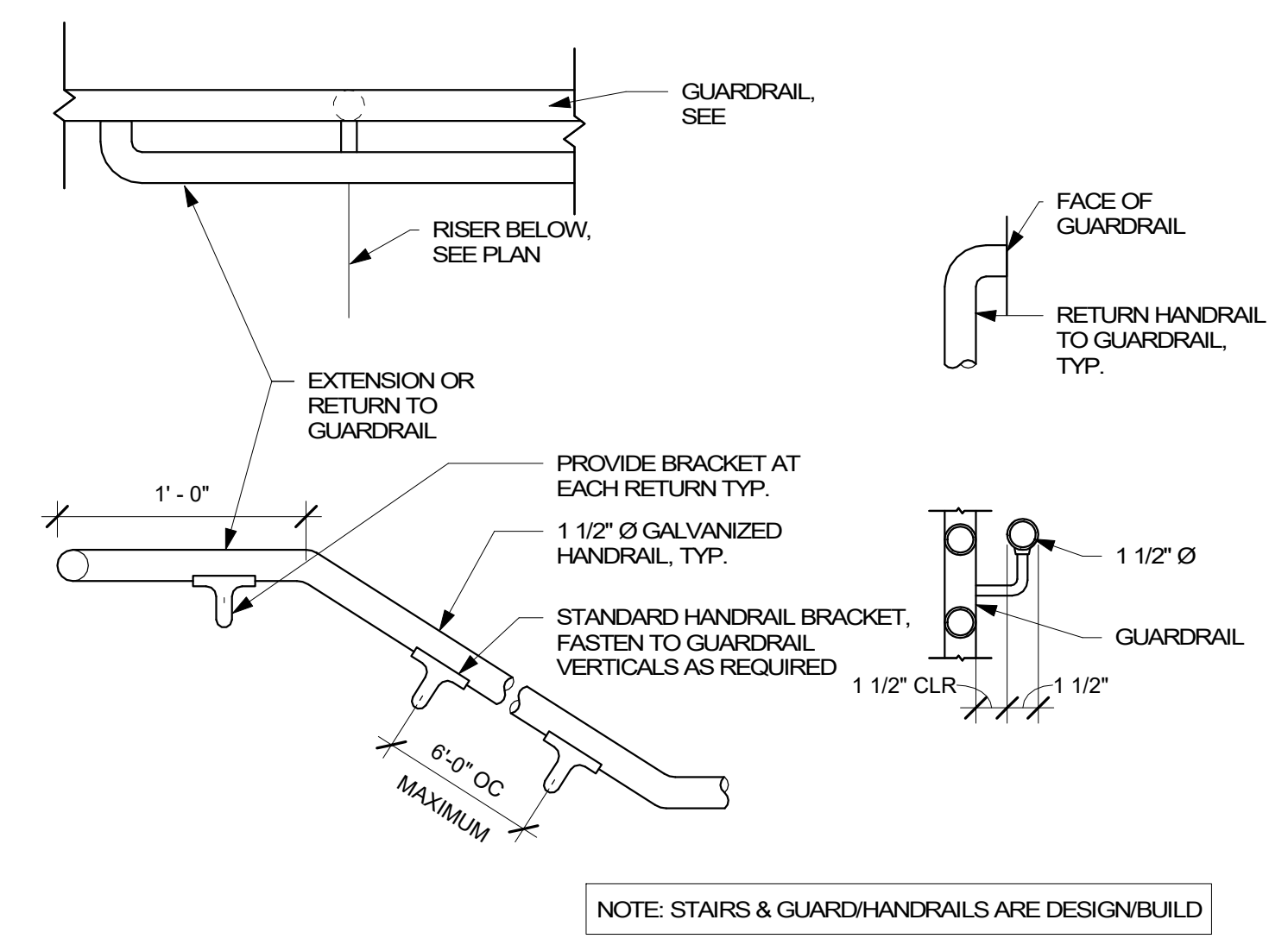
**2 METAL STAIR FRAMING PLAN**  
A5.12 1/2" = 1'-0"



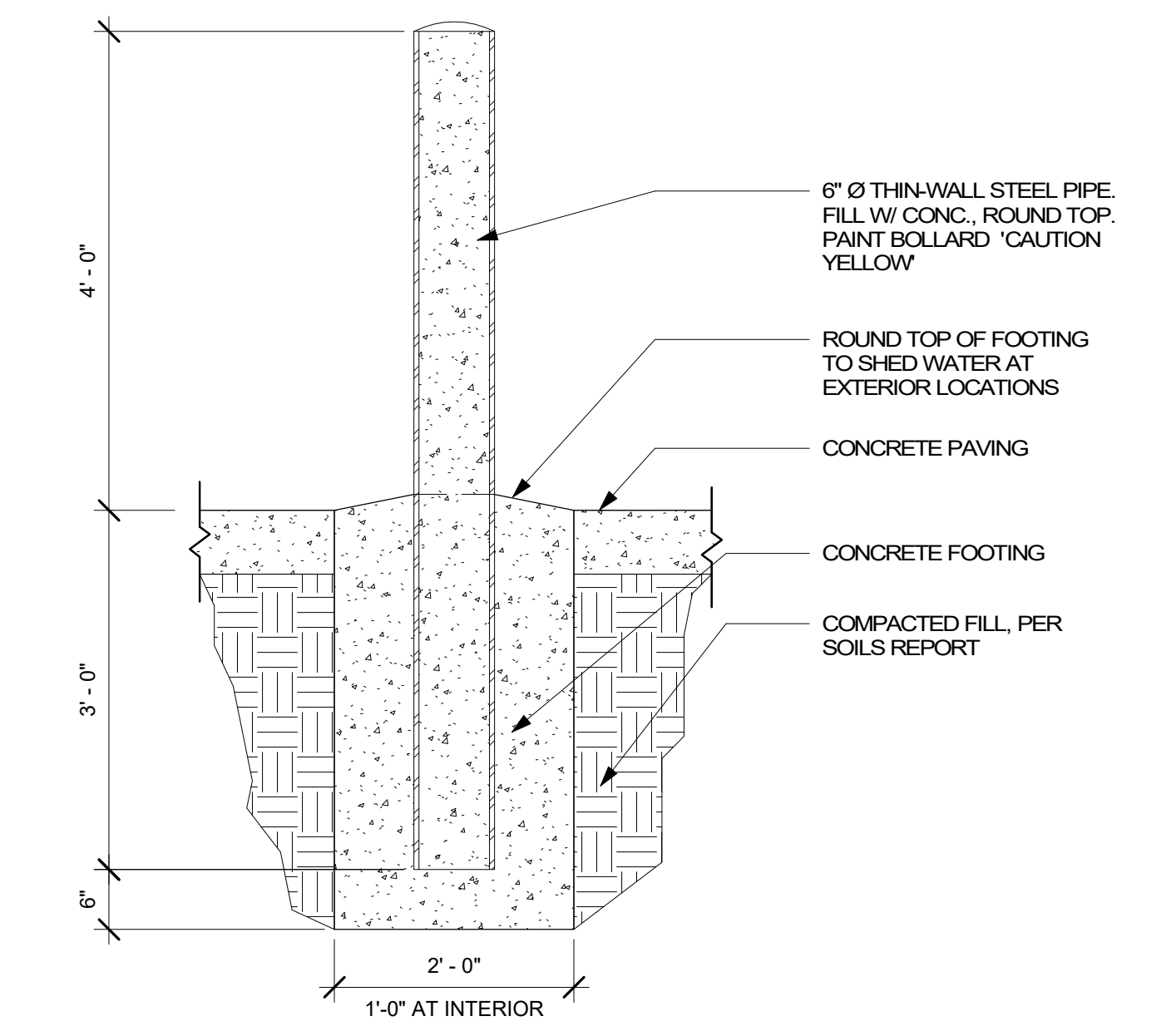
**3 METAL STAIR SECTION**  
A5.12 1/2" = 1'-0"



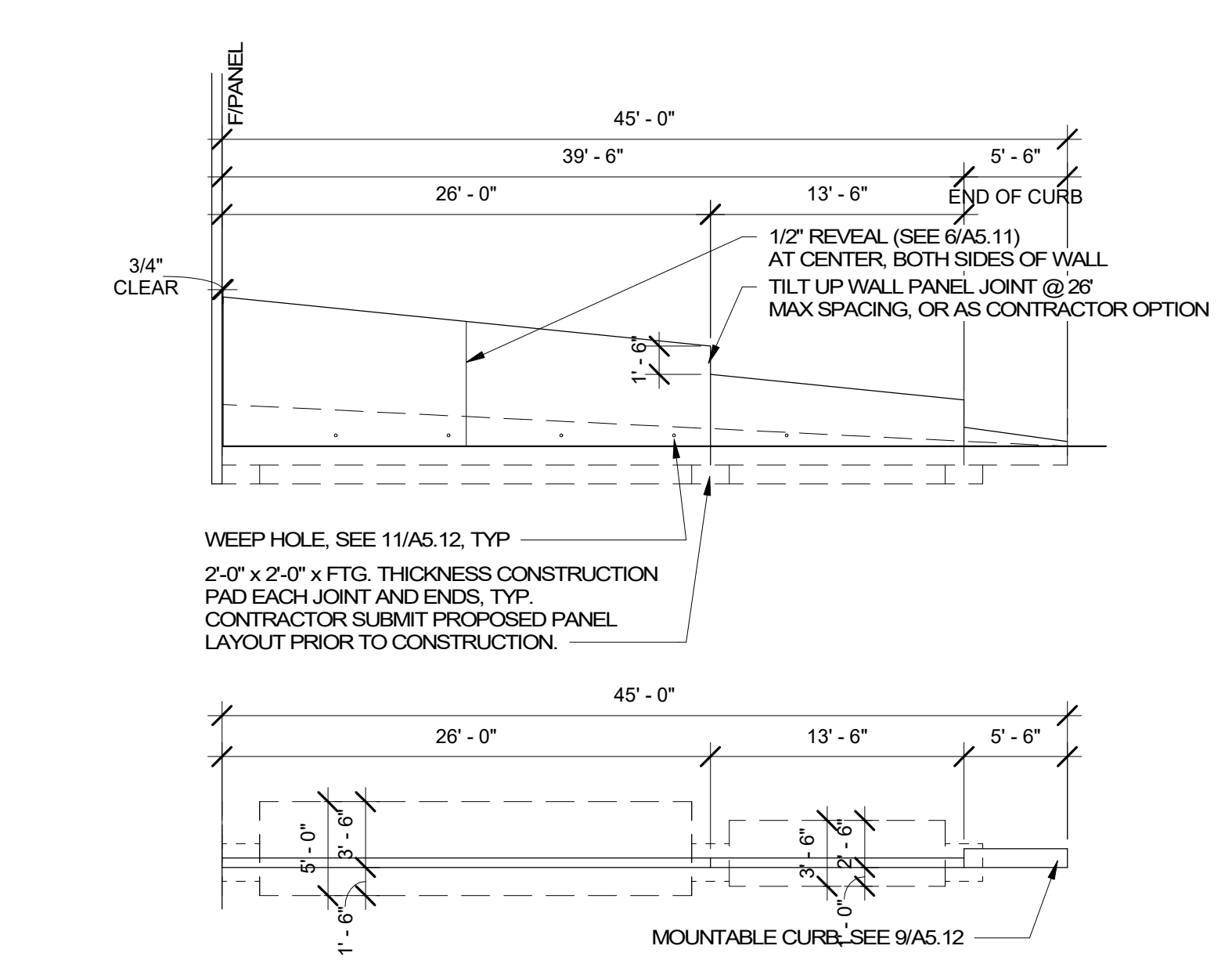
**4 STAIR LANDING SECTION**  
A5.12 1 1/2" = 1'-0"



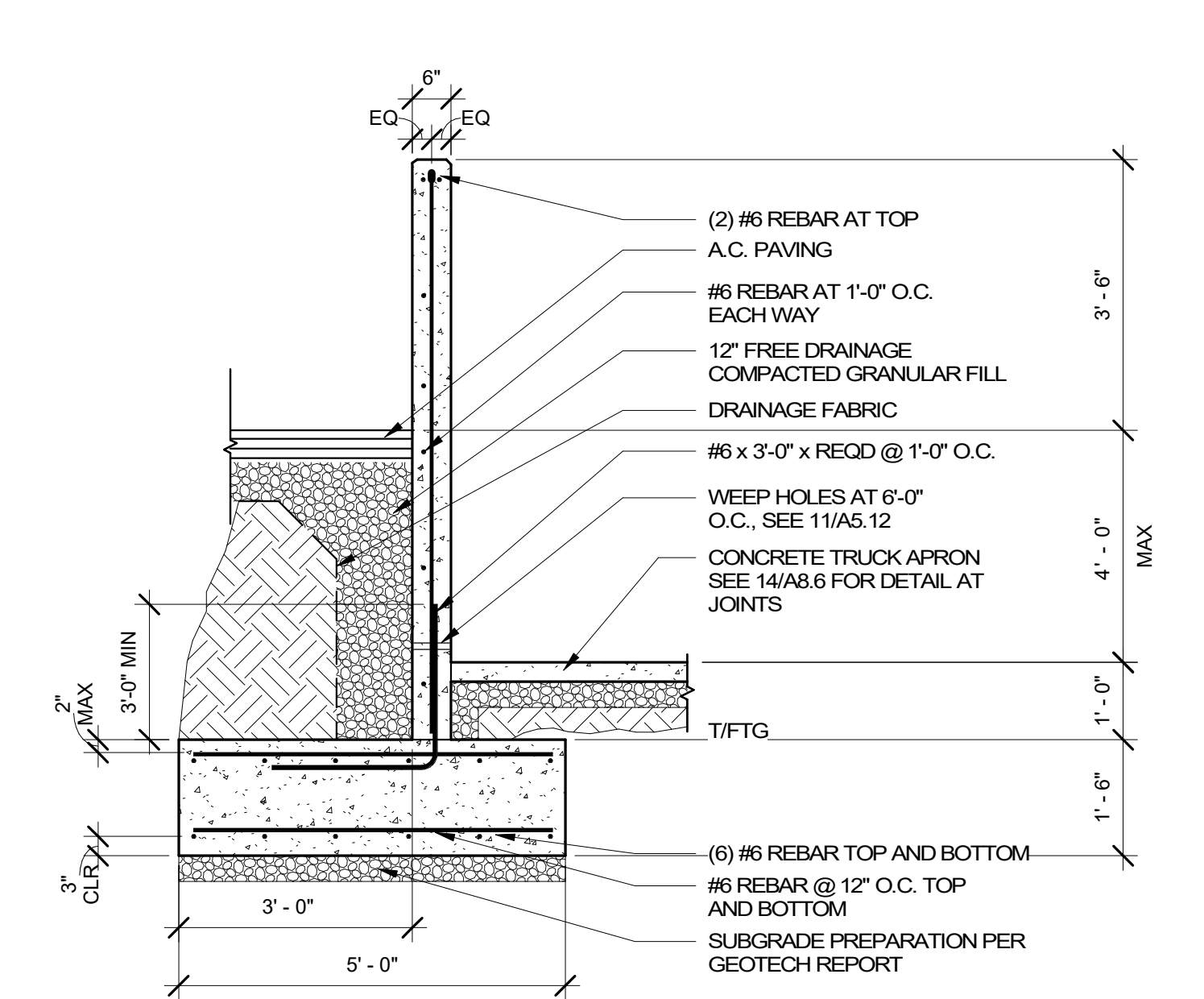
**5 TYPICAL HANDRAIL**  
A5.12 1 1/2" = 1'-0"



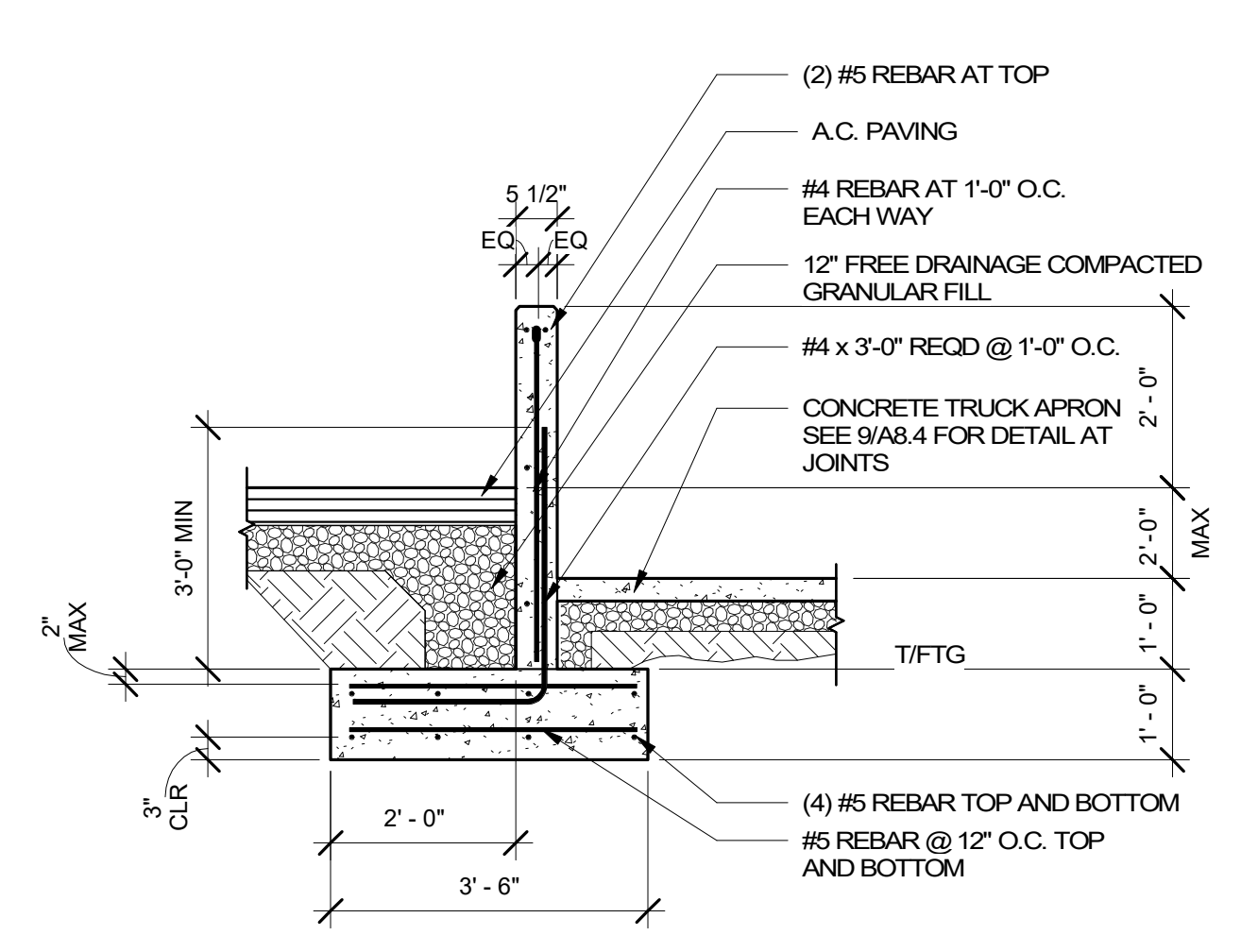
**6 BOLLARD**  
A5.12 3/4" = 1'-0"



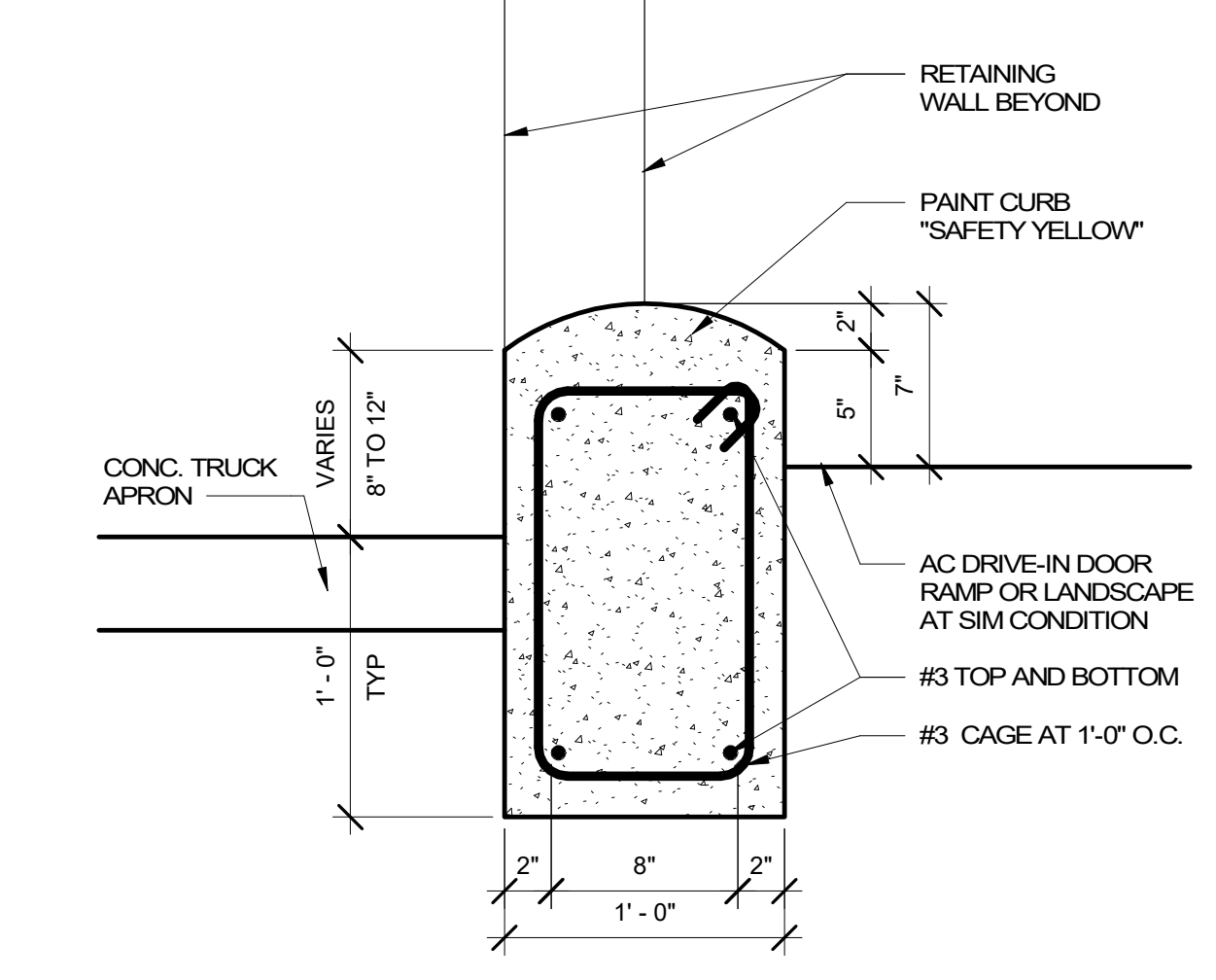
**7 DOCK RETAINING WALL ELEVATION**  
A5.12 1/8" = 1'-0"



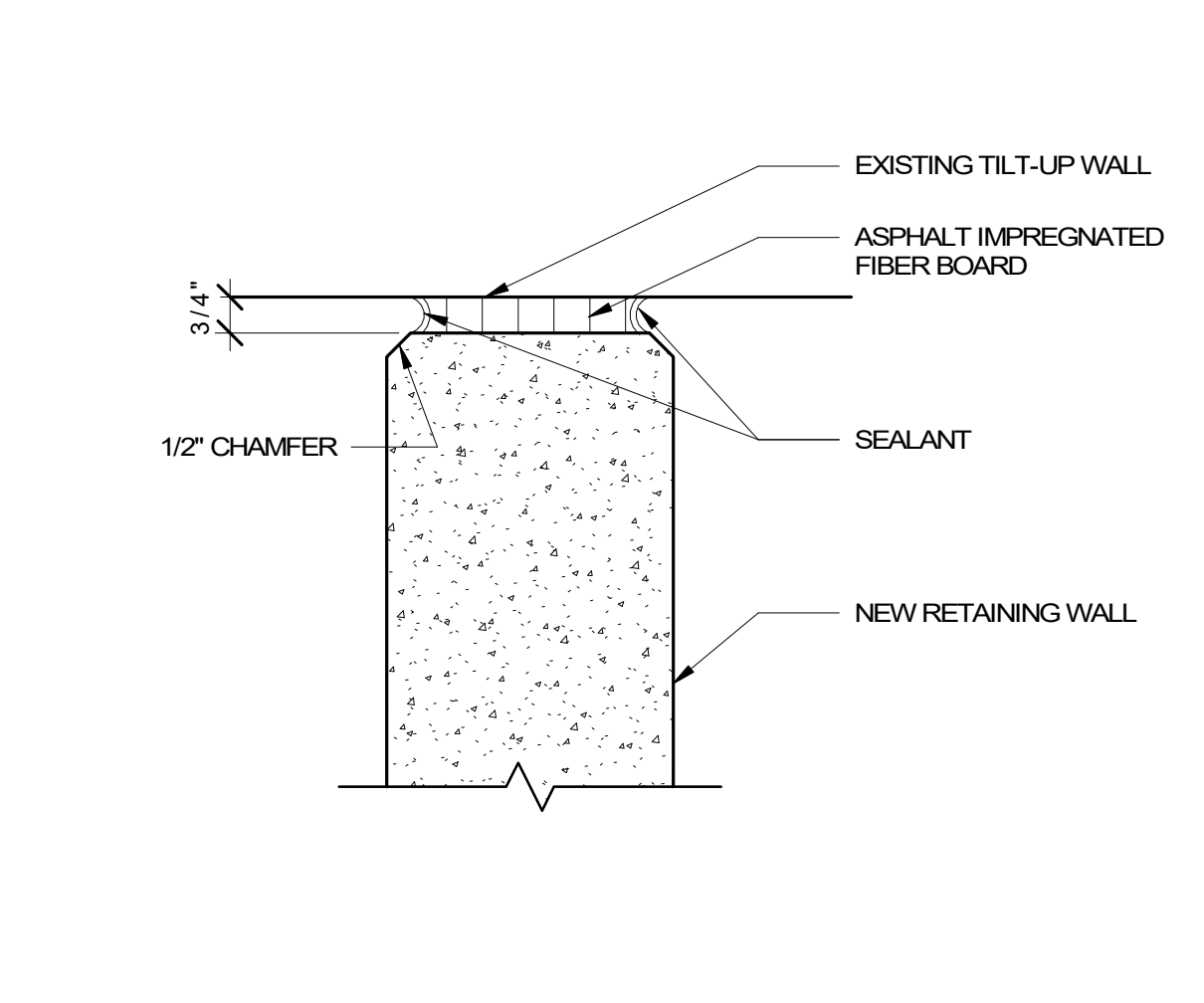
**8 RETAINING WALL SECTION**  
A5.12 1/2" = 1'-0"



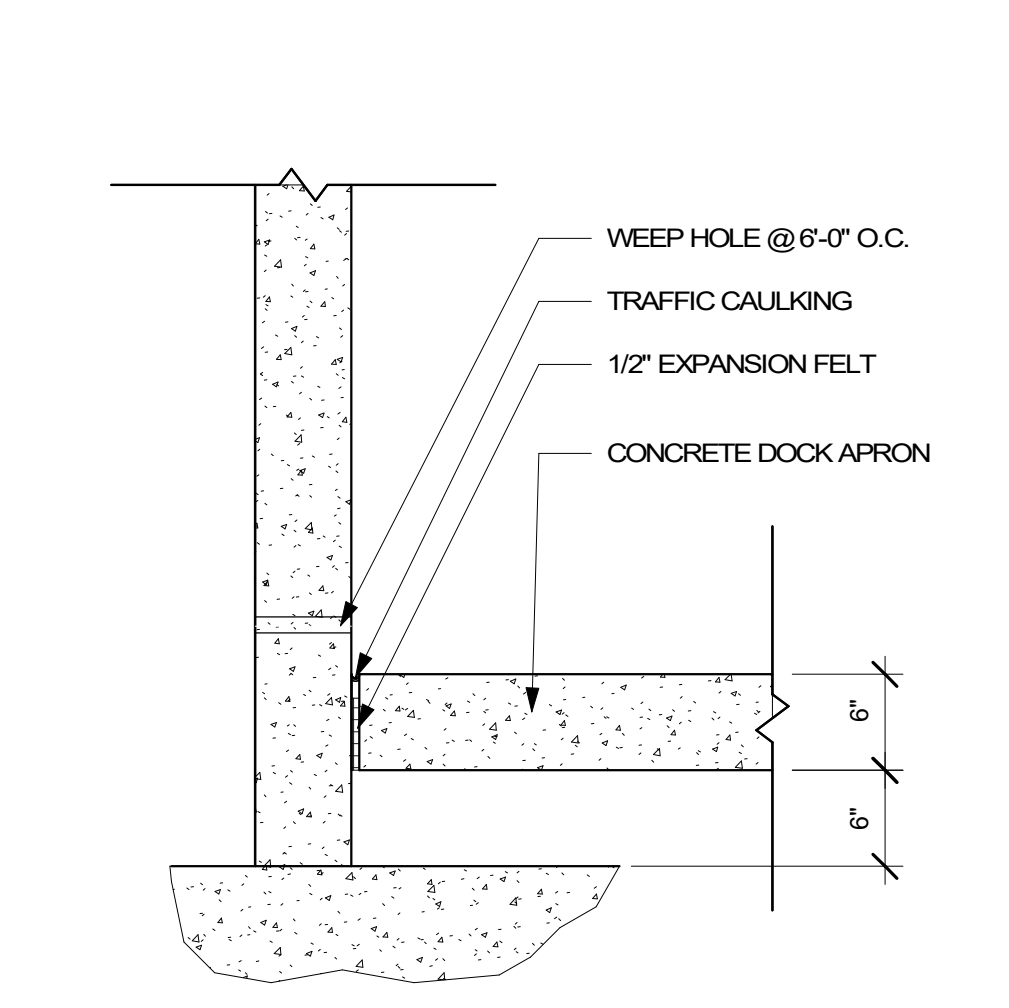
**9 RETAINING WALL SECTION - LOW**  
A5.12 1 1/2" = 1'-0"



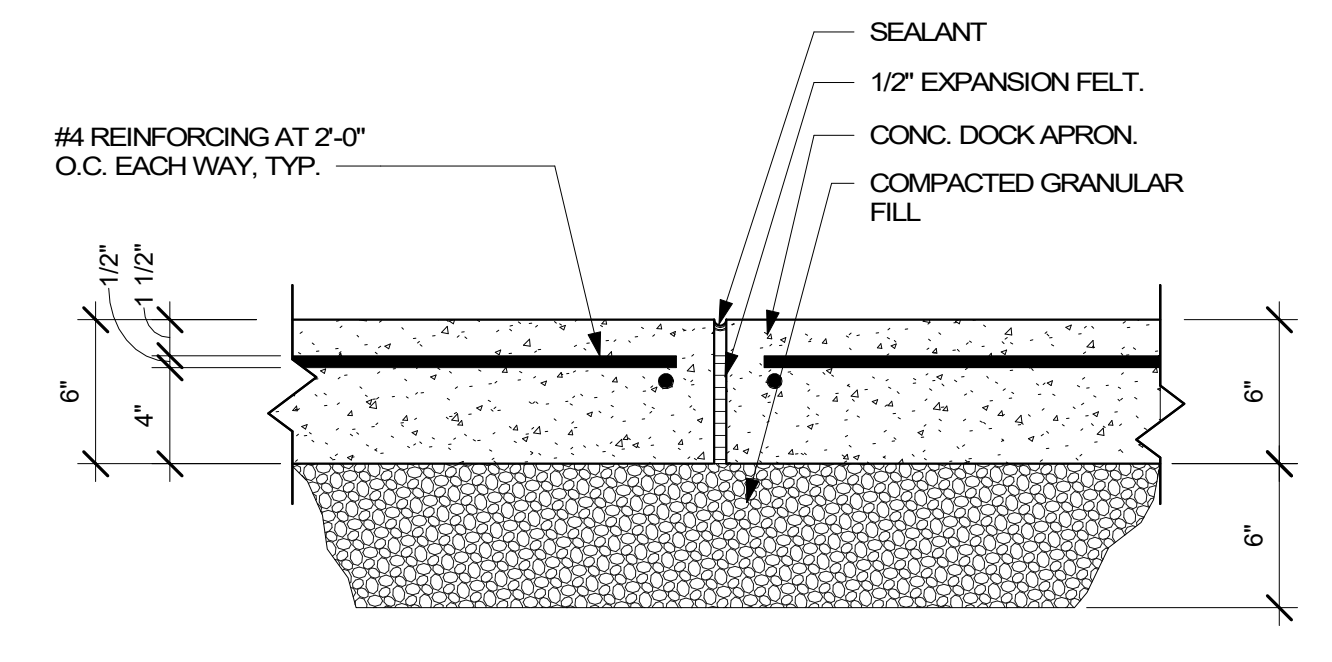
**10 MOUNTABLE CURB**  
A5.12 1 1/2" = 1'-0"



**11 RETAINING WALL JOINT**  
A5.12 3" = 1'-0"



**12 DOCK APRON AT RETAINING WALL**  
A5.12 1" = 1'-0"



**13 DOCK APRON JOINT**  
A5.12 1 1/2" = 1'-0"



© MACKENZIE 2023. ALL RIGHTS RESERVED. THESE DRAWINGS ARE THE PROPERTY OF MACKENZIE AND ARE NOT TO BE USED OR REPRODUCED IN ANY MANNER, WITHOUT PRIOR WRITTEN PERMISSION.

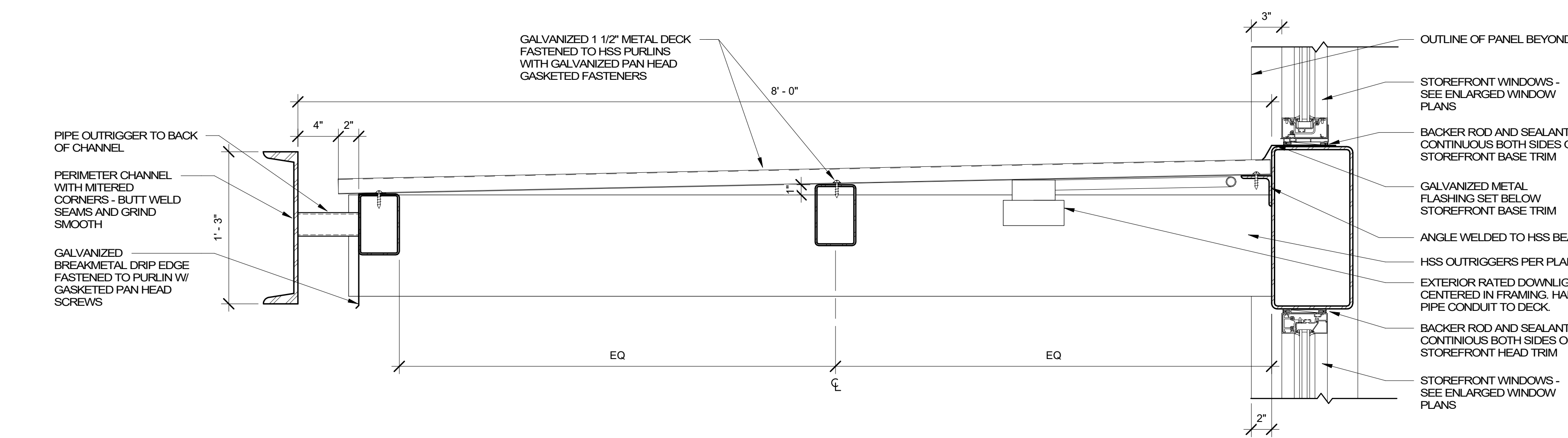
REVISION SCHEDULE		
Delta	Issued As	Issue Date

SHEET TITLE:  
**EXTERIOR  
DETAILS**

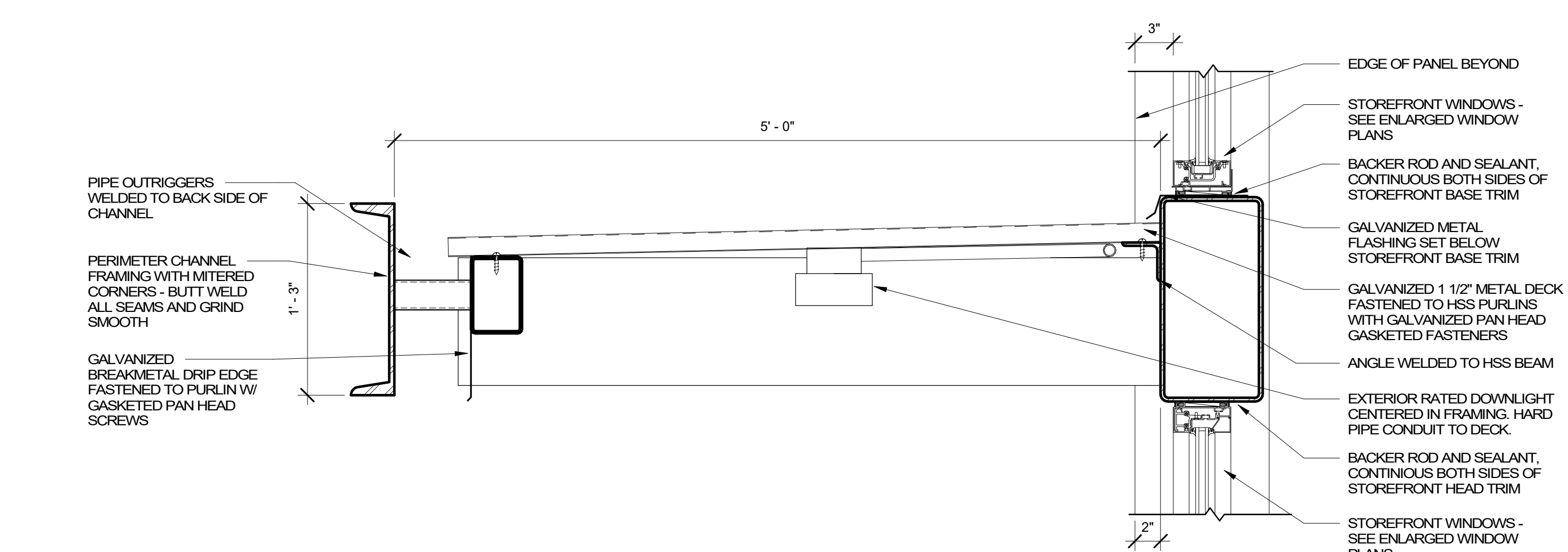




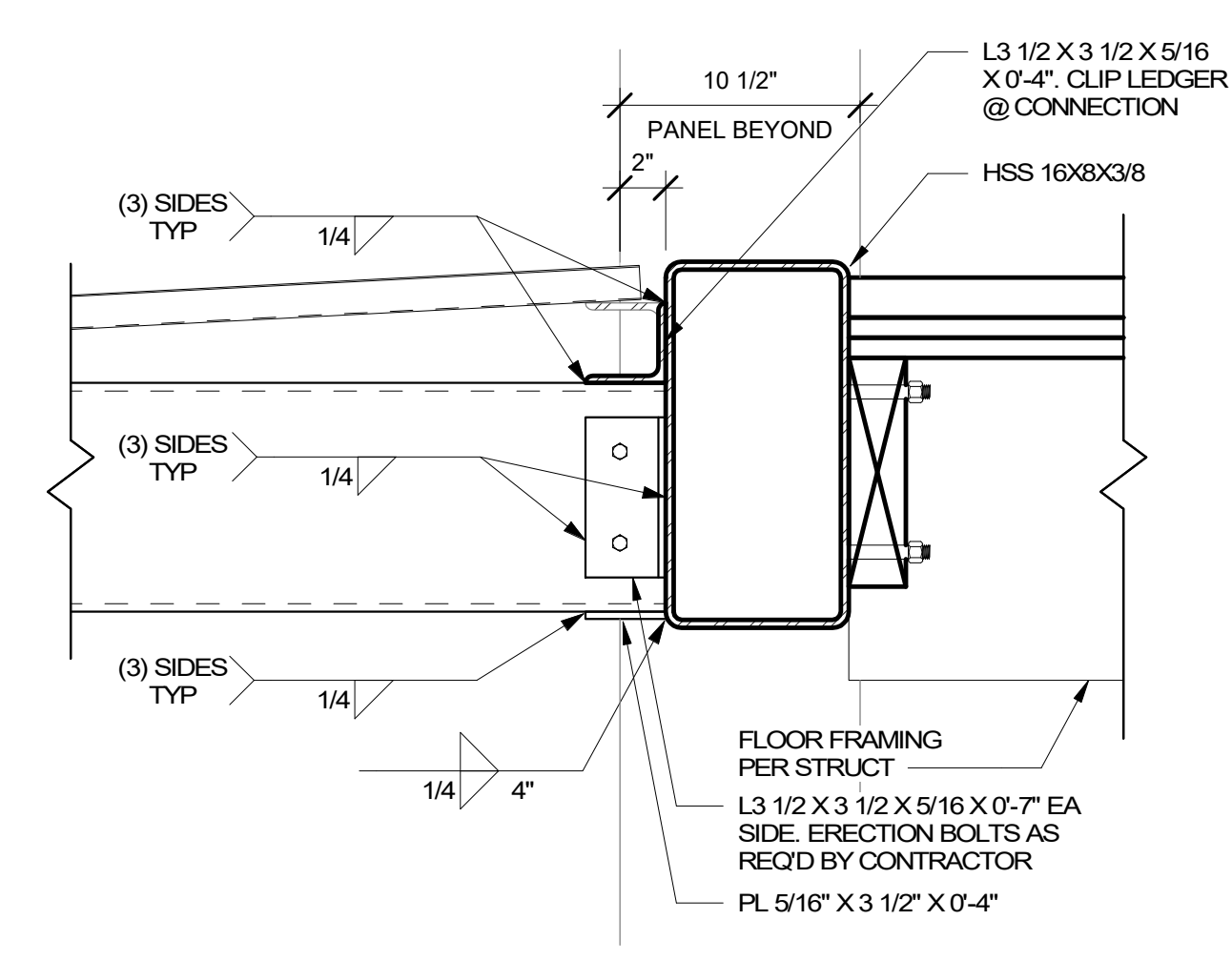




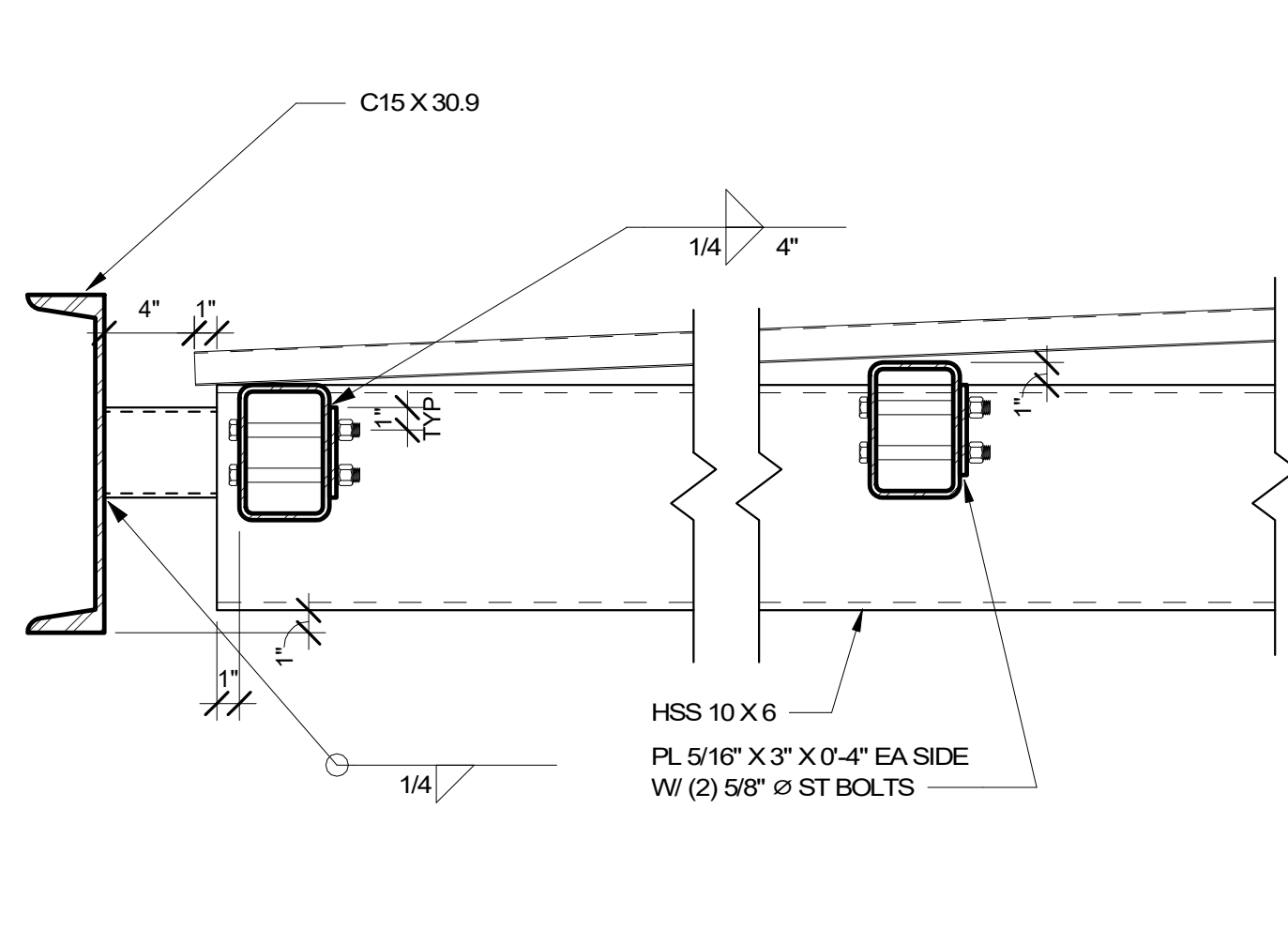
1 ENTRY CANOPY SECTION DETAIL - WEST  
1 1/2" = 1'-0"



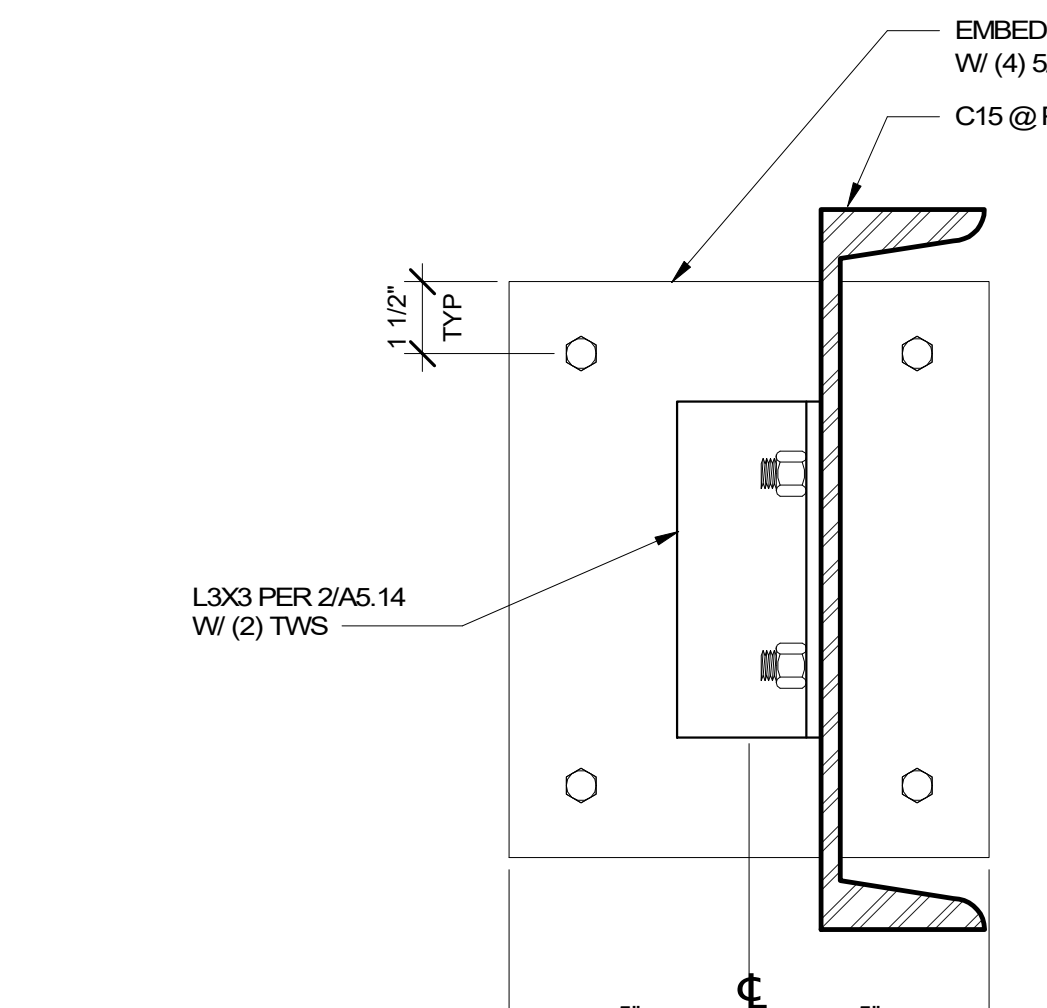
2 ENTRY CANOPY SECTION DETAIL - NORTH  
1 1/2" = 1'-0"



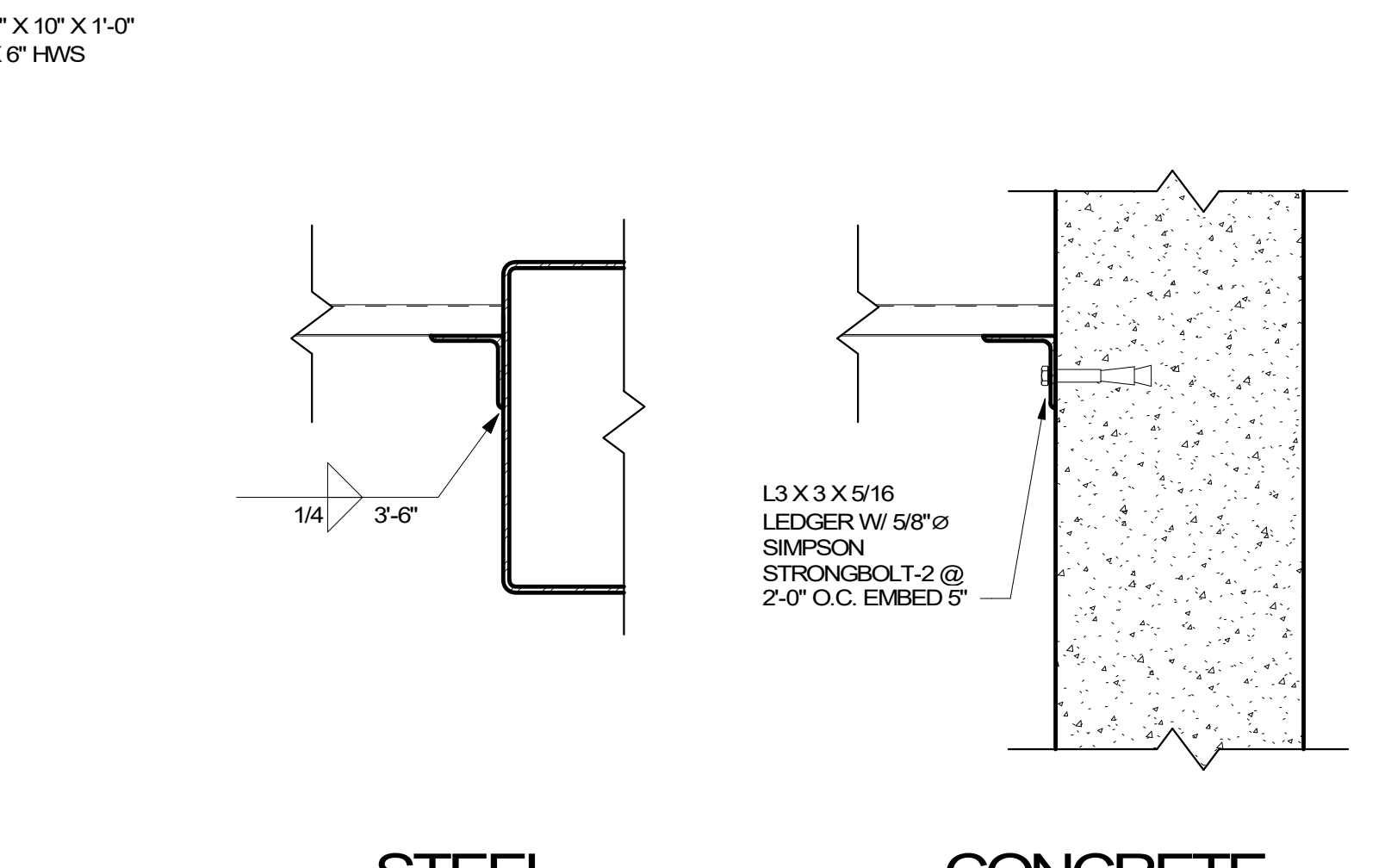
3 CANOPY CONNECTION AT FLOOR FRAMING  
1 1/2" = 1'-0"



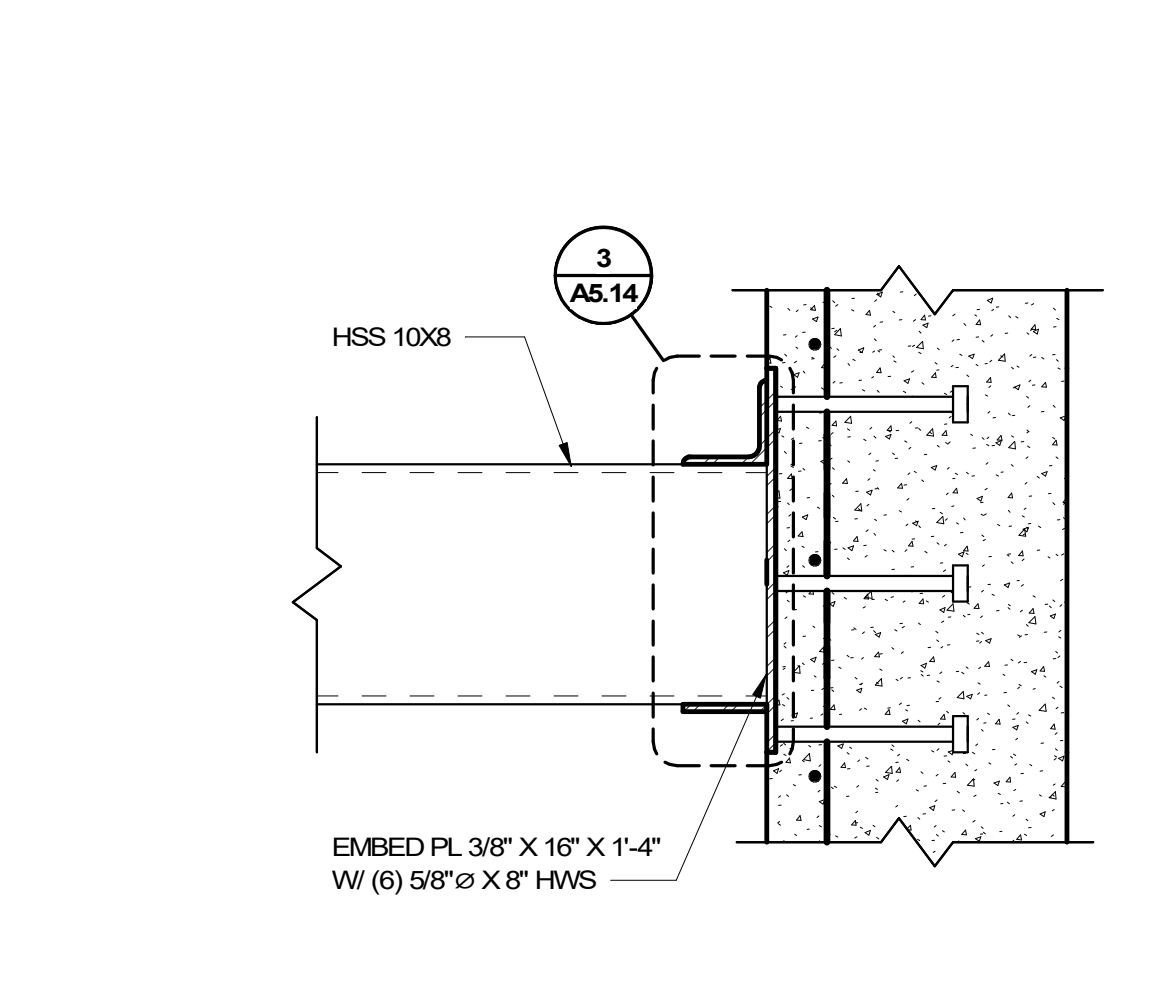
4 PRIMARY CANOPY FRAMING  
1 1/2" = 1'-0"



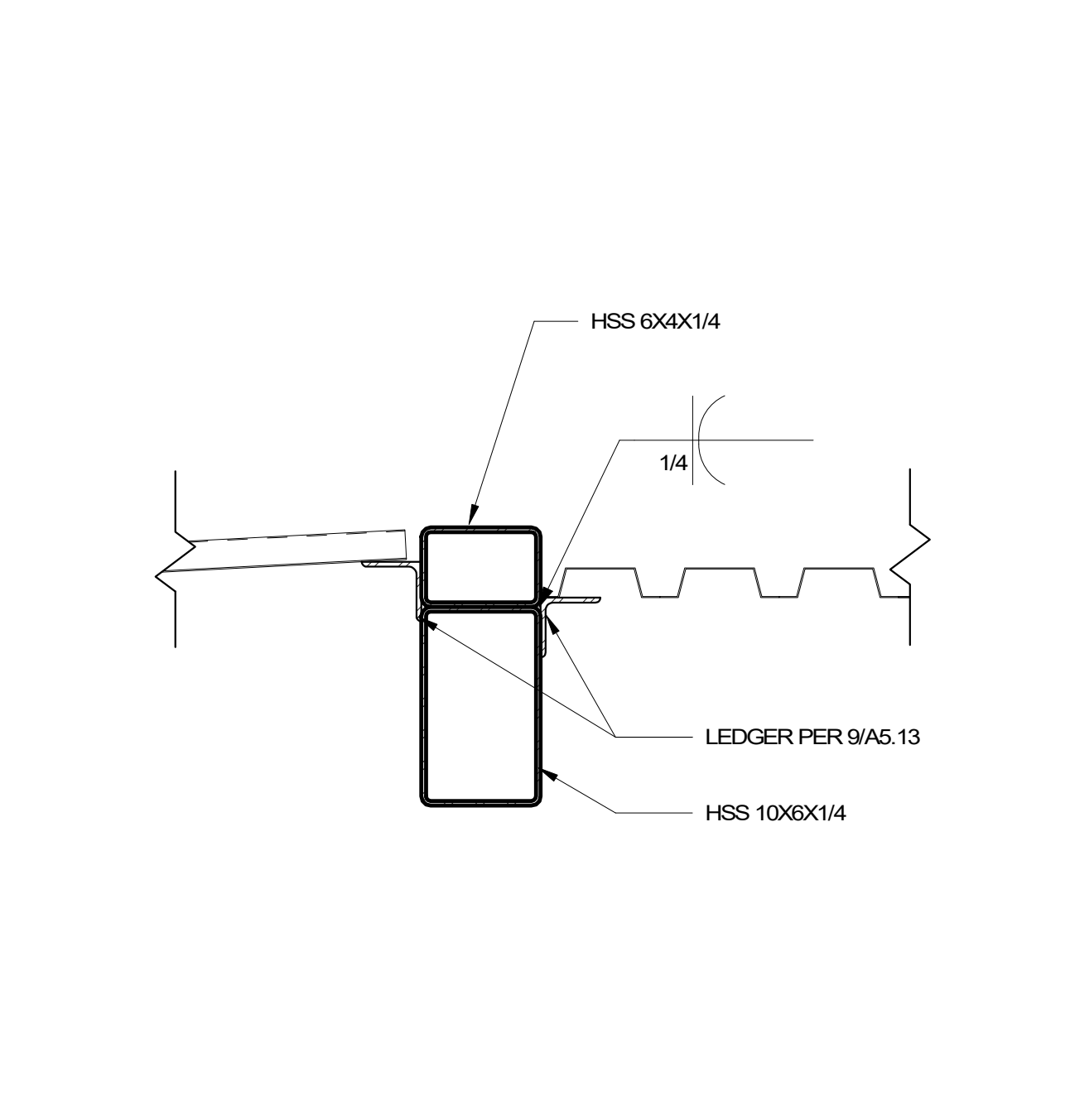
5 CHANNEL RETURN AT PANEL EMBED  
3\"/>



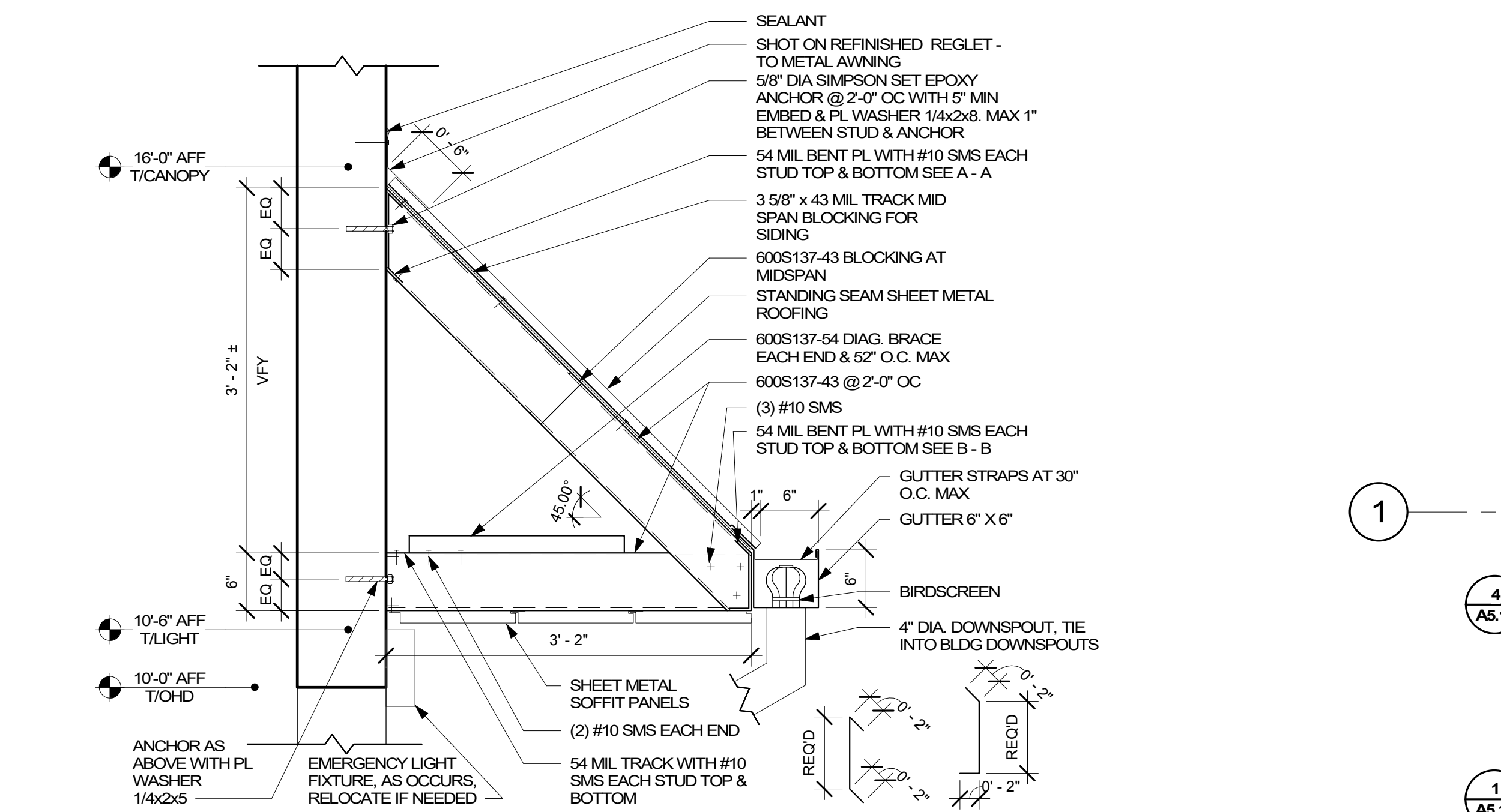
6 CANOPY LEDGER  
1 1/2" = 1'-0"



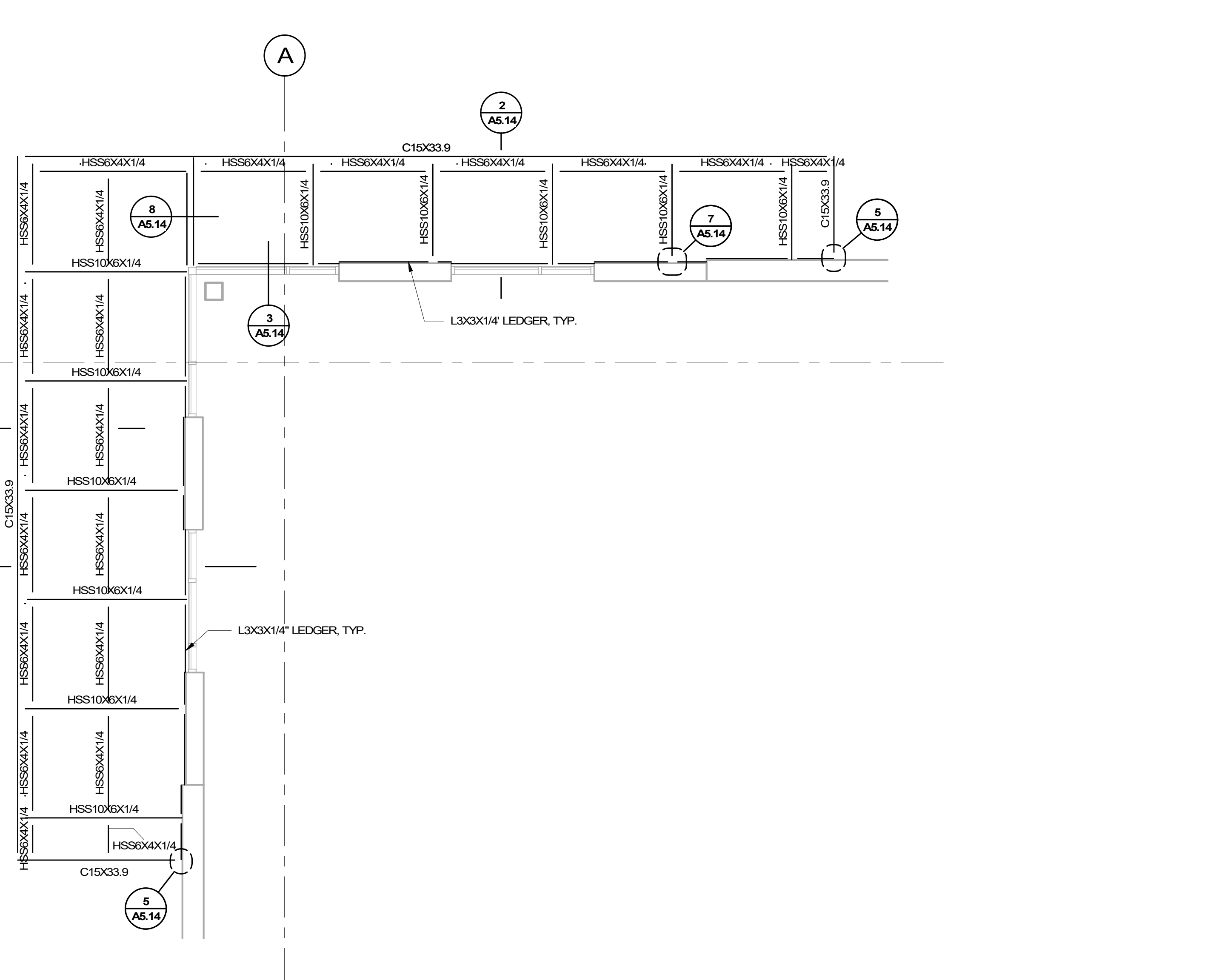
7 OUTRIGGER AT PANEL EMBED  
1 1/2" = 1'-0"



8 CANOPY ROOF/DECK TRANSITION  
1 1/2" = 1'-0"



9 CANOPY ABOVE DOCKS  
1" = 1'-0"



10 ENTRY CANOPY FRAMING PLAN  
1/4" = 1'-0"



© MACKENZIE  
2023 ALL RIGHTS RESERVED  
THESE DRAWINGS ARE THE PROPERTY OF  
MACKENZIE AND ARE NOT TO BE USED  
OR REPRODUCED IN ANY MANNER,  
WITHOUT PRIOR WRITTEN PERMISSION.

REVISION SCHEDULE		
Delta	Issued As	Issue Date

SHEET TITLE:  
**CANOPY  
FRAMING  
PLAN &  
DETAILS**

SHEET

**A5.14**

JOB NO. **2200502.00**

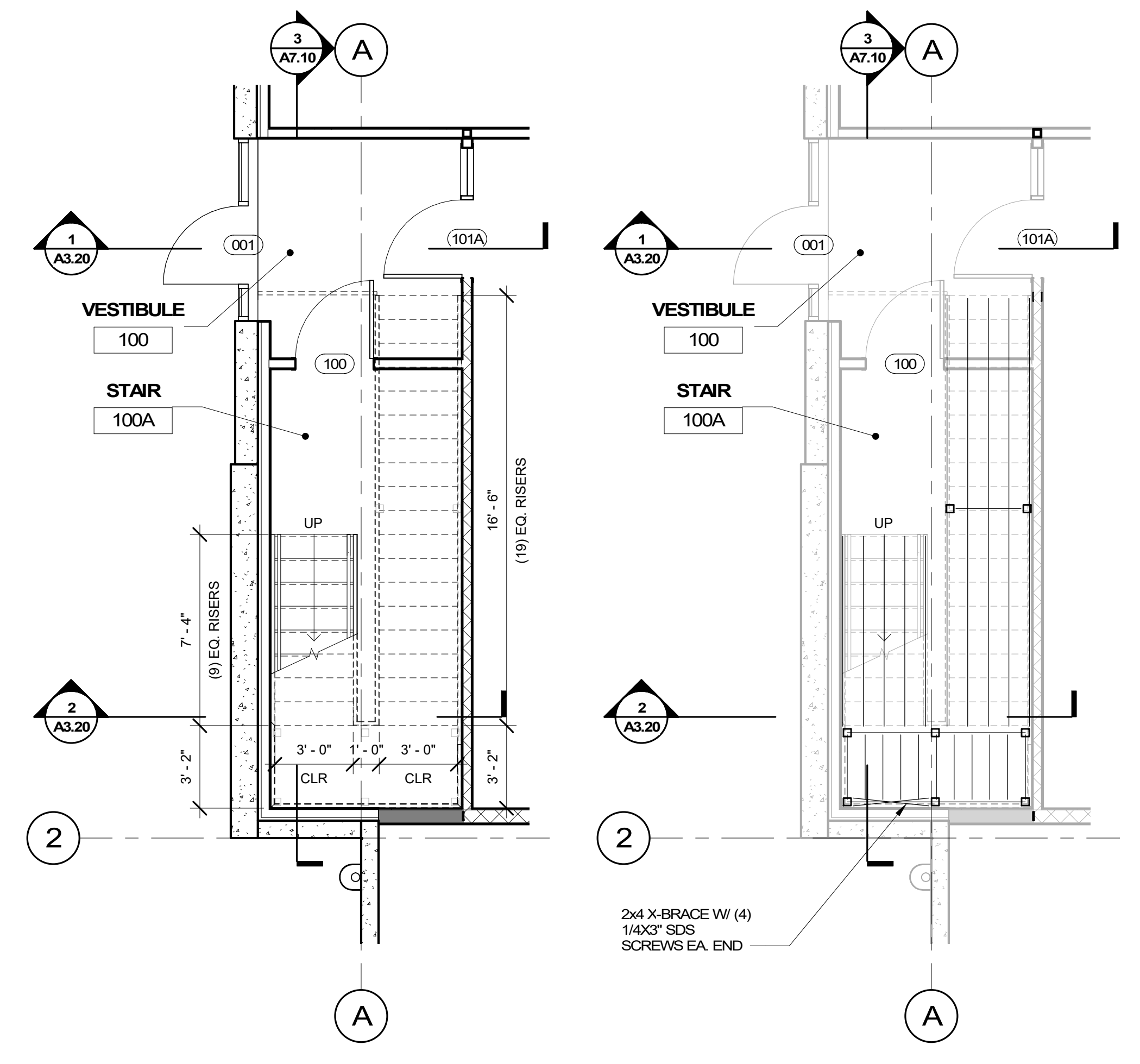






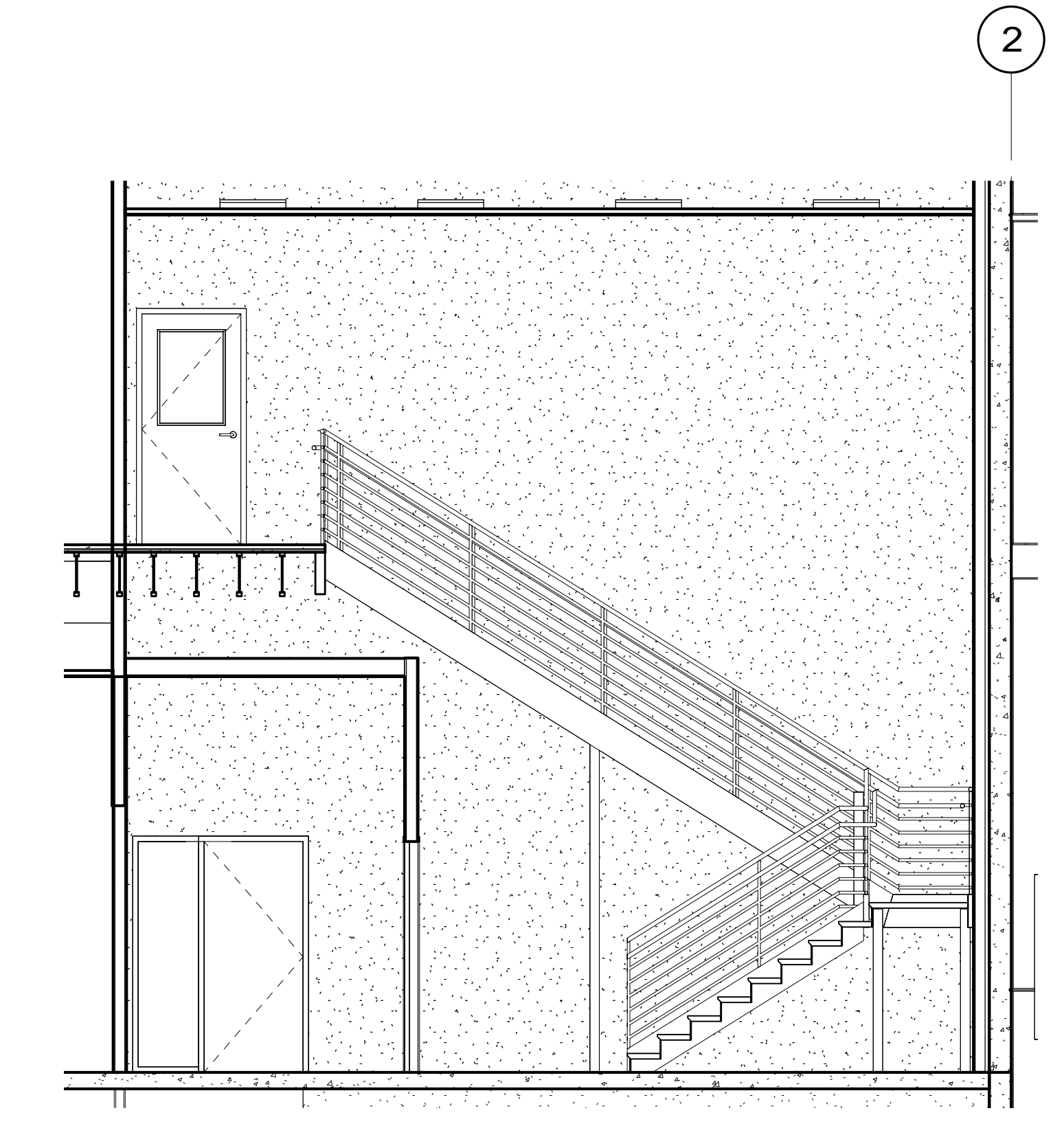




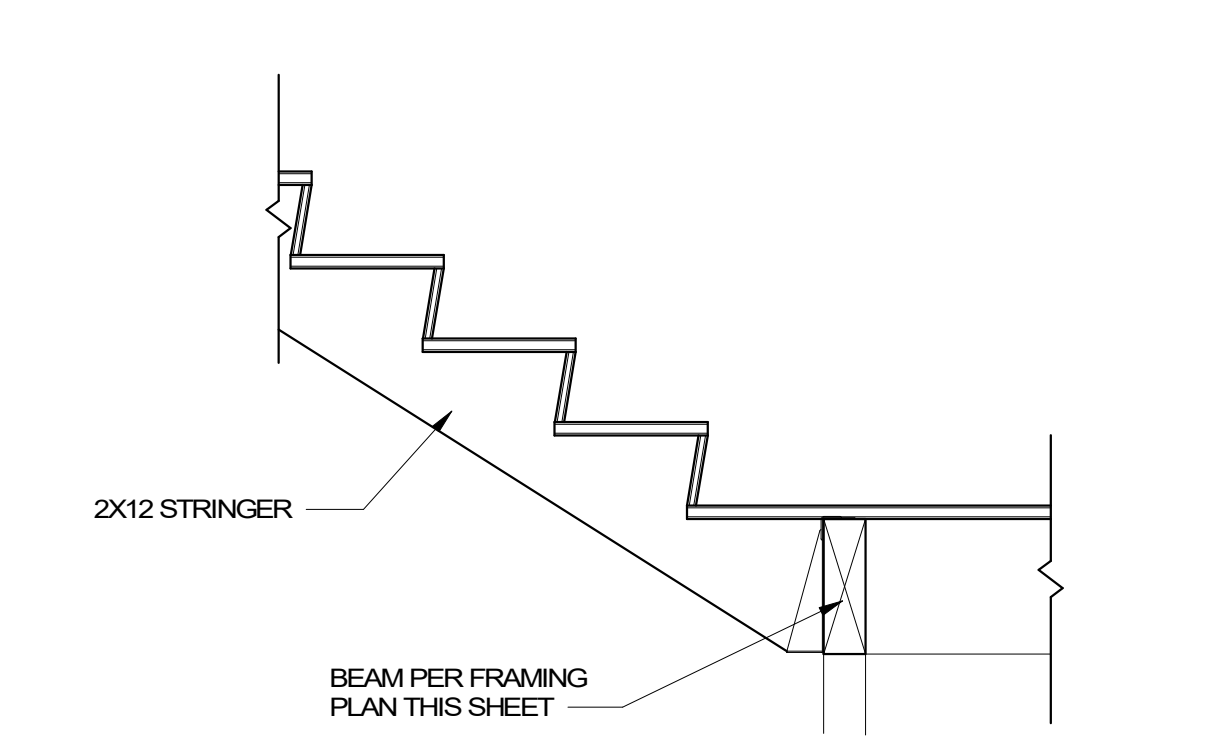


1 MAIN STAIR - ENLARGED PLAN  
A7.10 1/4" = 1'-0"

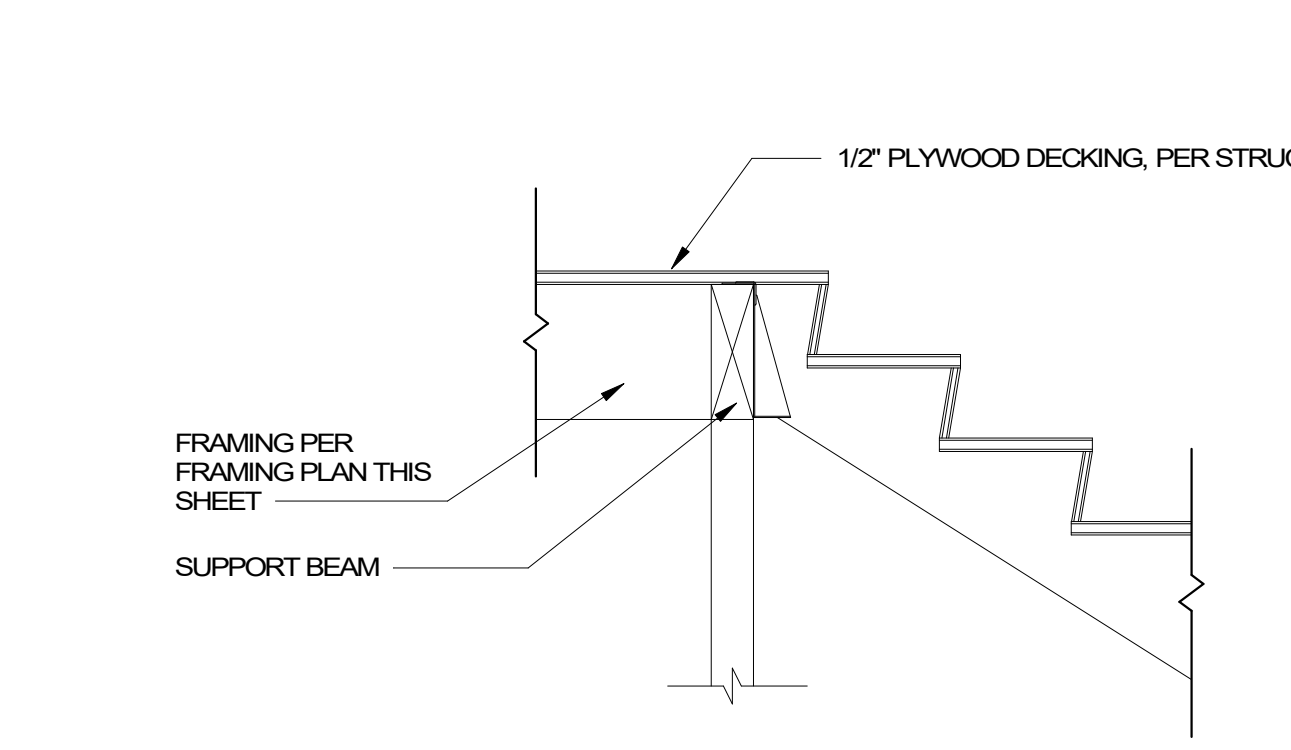
2 MAIN STAIR - FRAMING PLAN  
A7.10 1/4" = 1'-0"



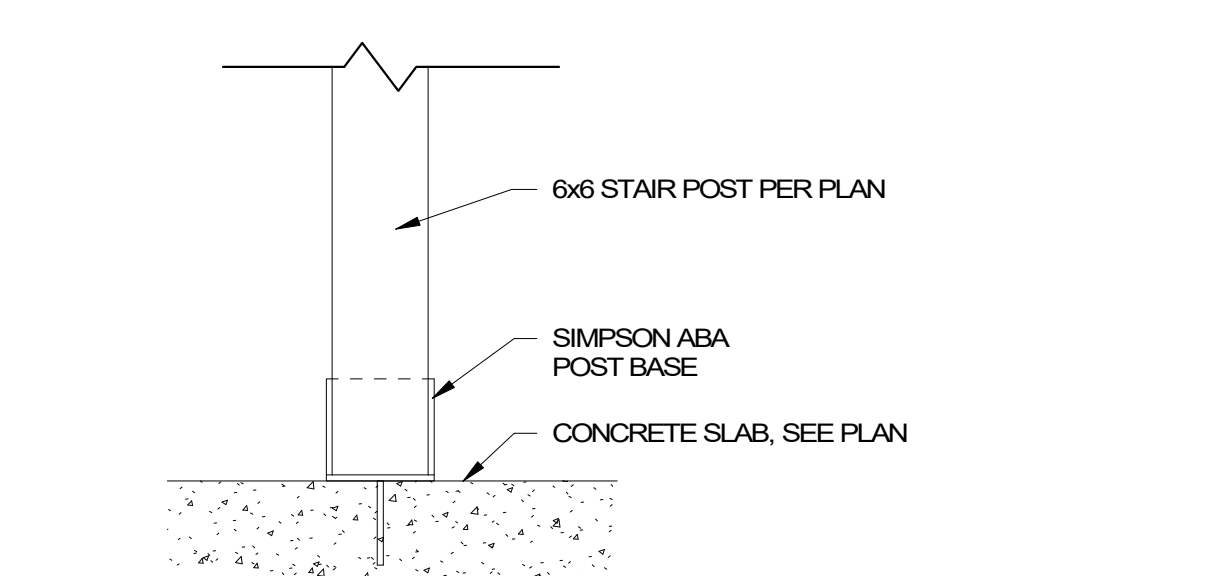
3 MAIN STAIR - SECTION  
A7.10 1/4" = 1'-0"



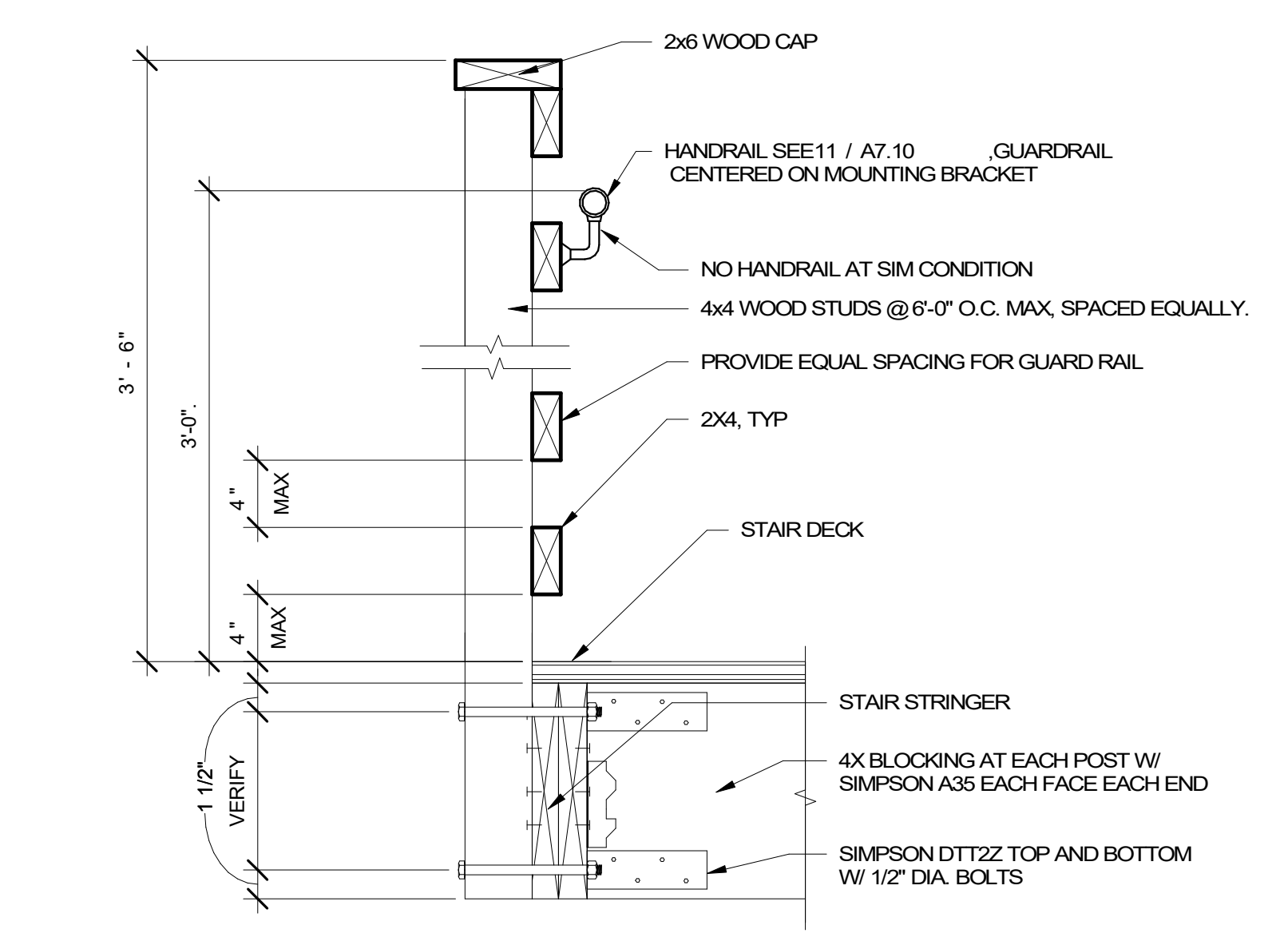
7 STAIR AT MID-LANDING  
A7.10 3/4" = 1'-0"



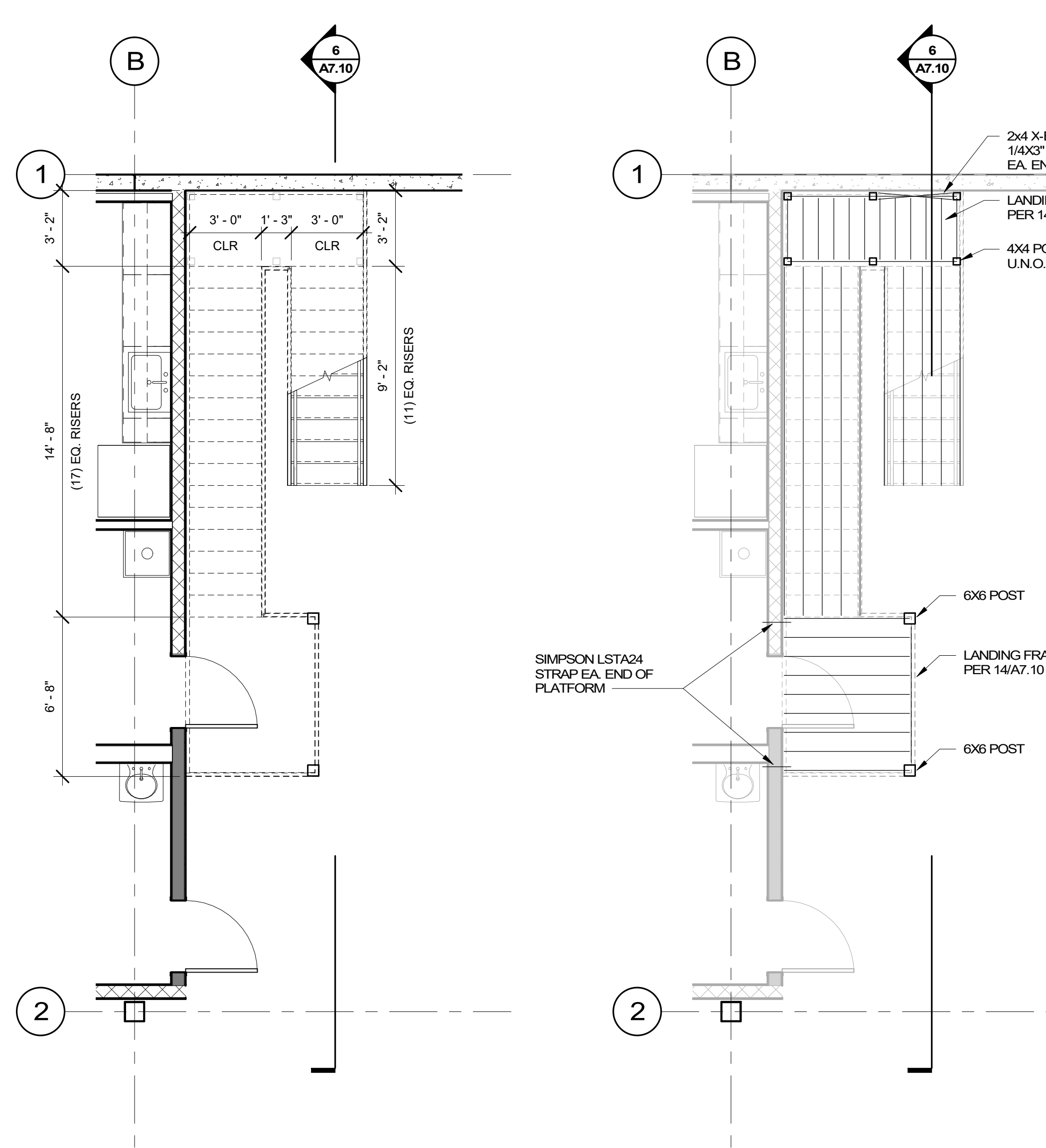
8 STAIR AT TOP LANDING  
A7.10 3/4" = 1'-0"



9 STAIR POST DETAIL  
A7.10 1 1/2" = 1'-0"

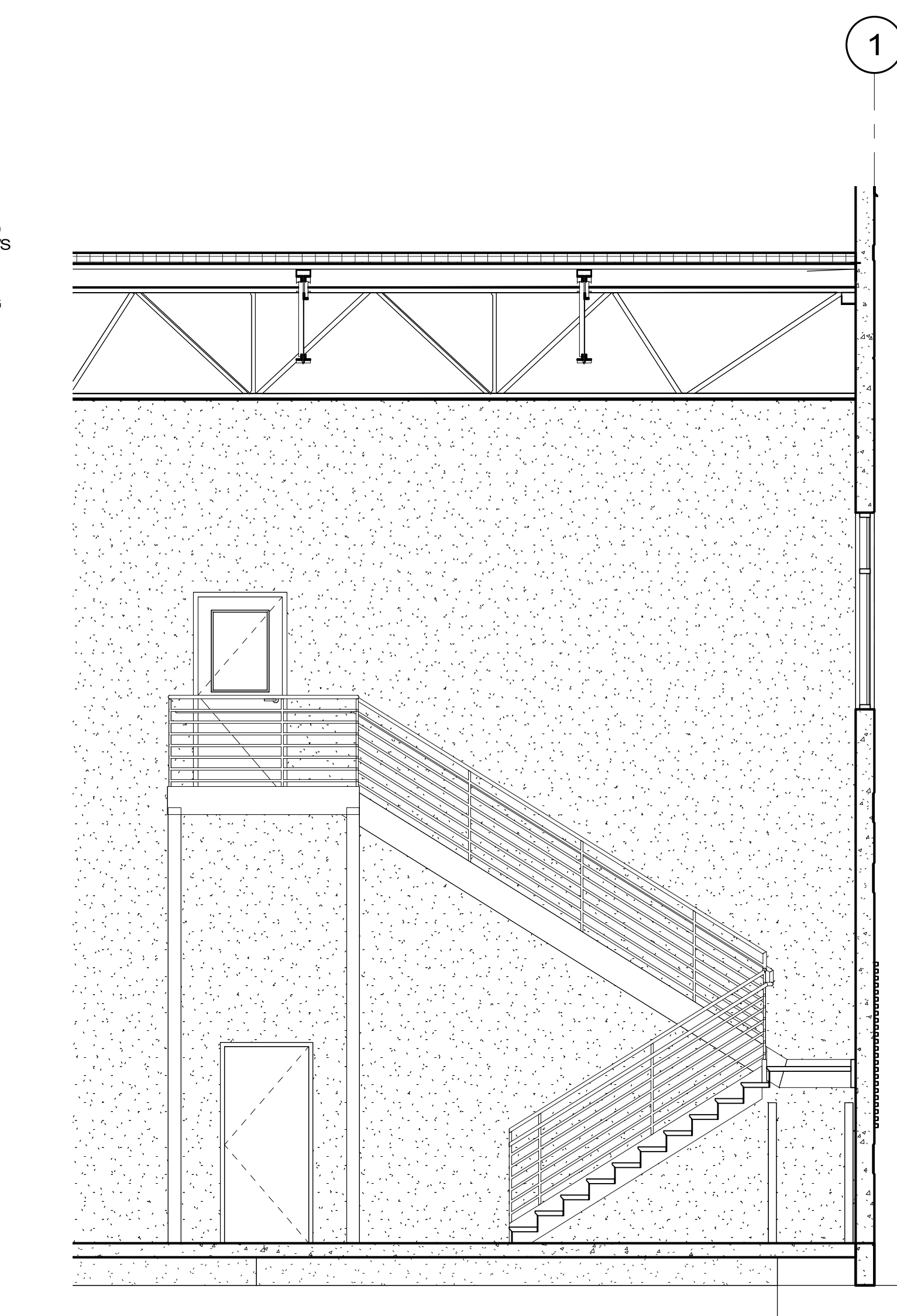


10 STAIRWAY GUARDRAIL  
A7.10 1 1/2" = 1'-0"

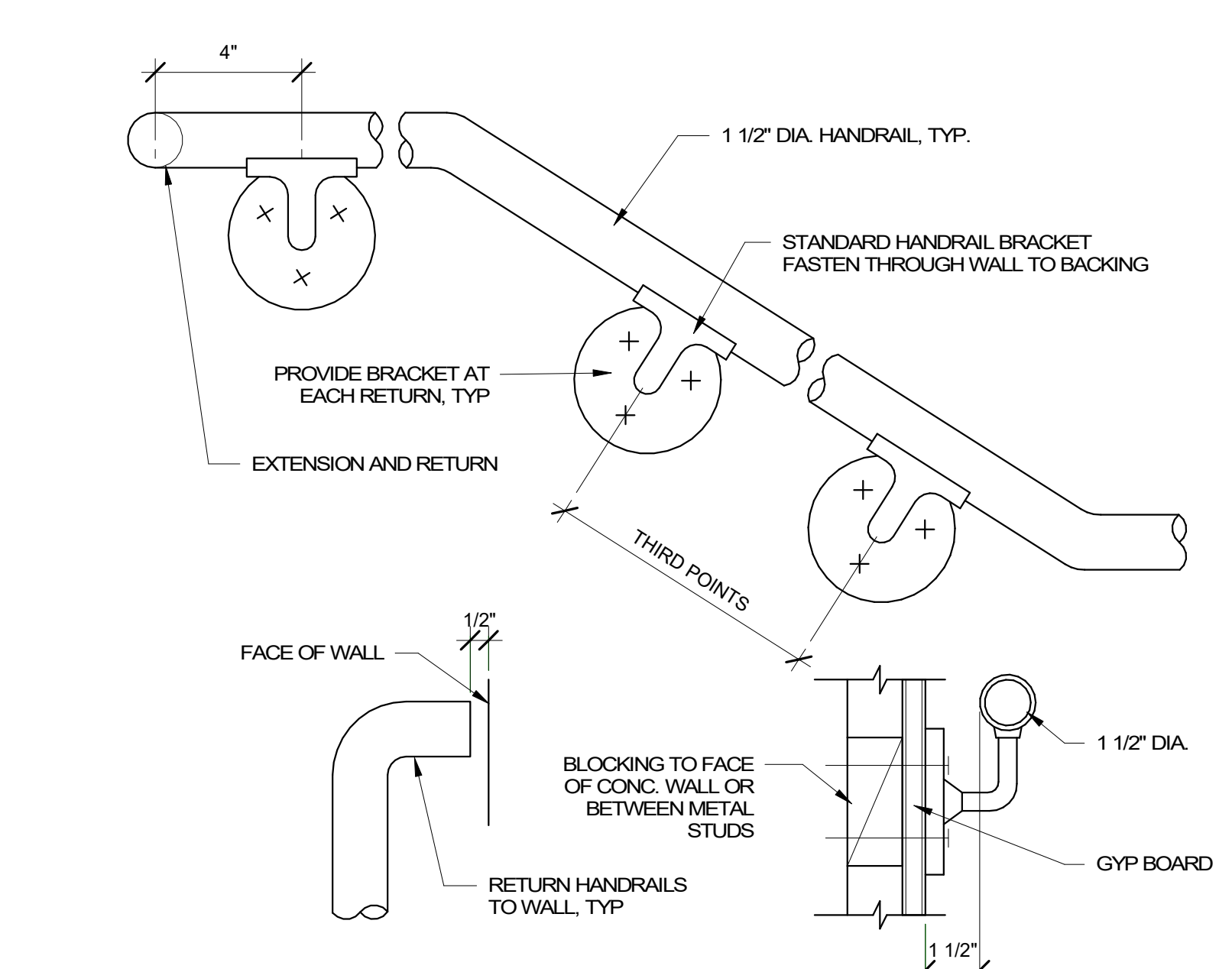


4 WAREHOUSE STAIR - ENLARGED PLAN  
A7.10 1/4" = 1'-0"

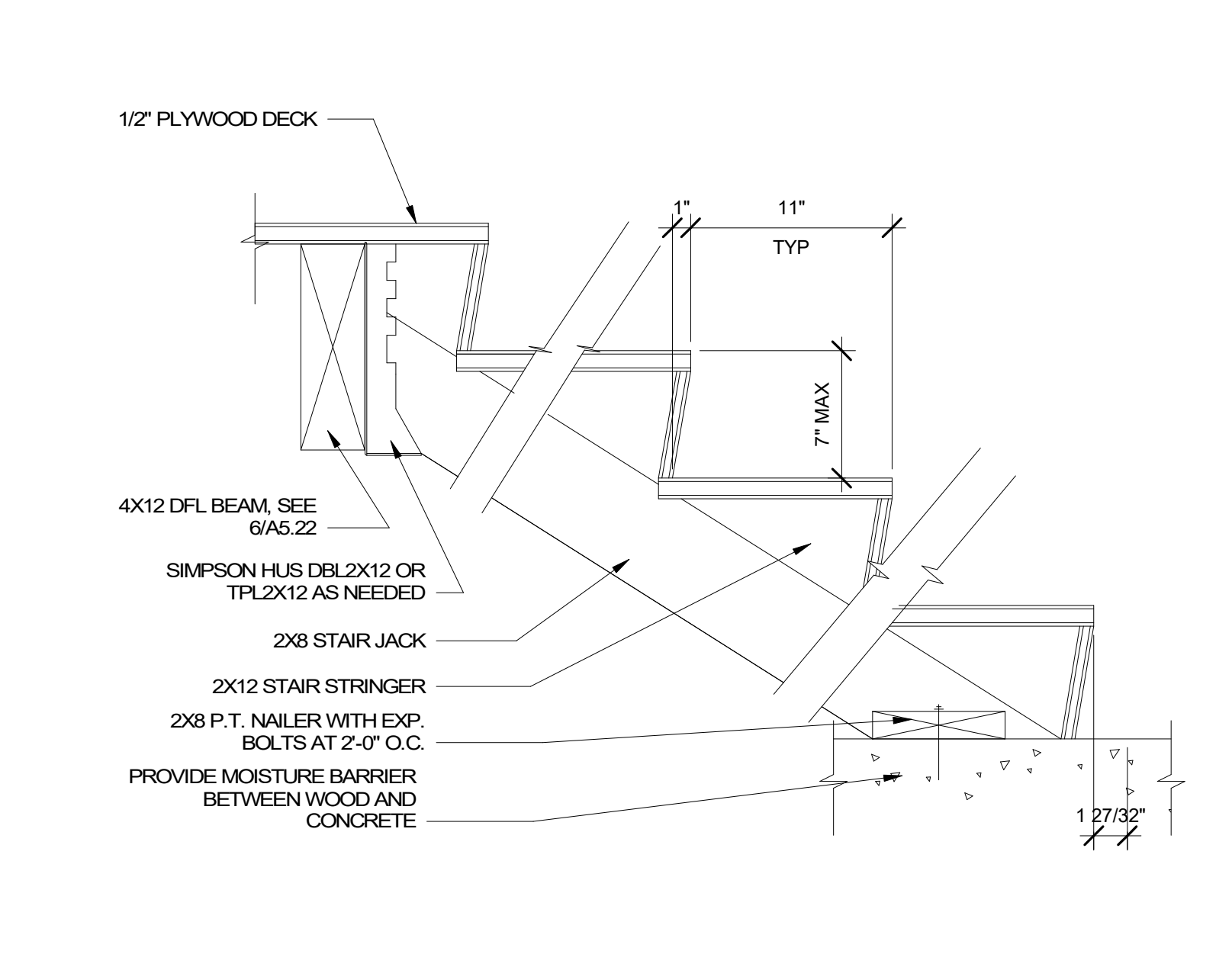
5 WAREHOUSE STAIR - FRAMING PLAN  
A7.10 1/4" = 1'-0"



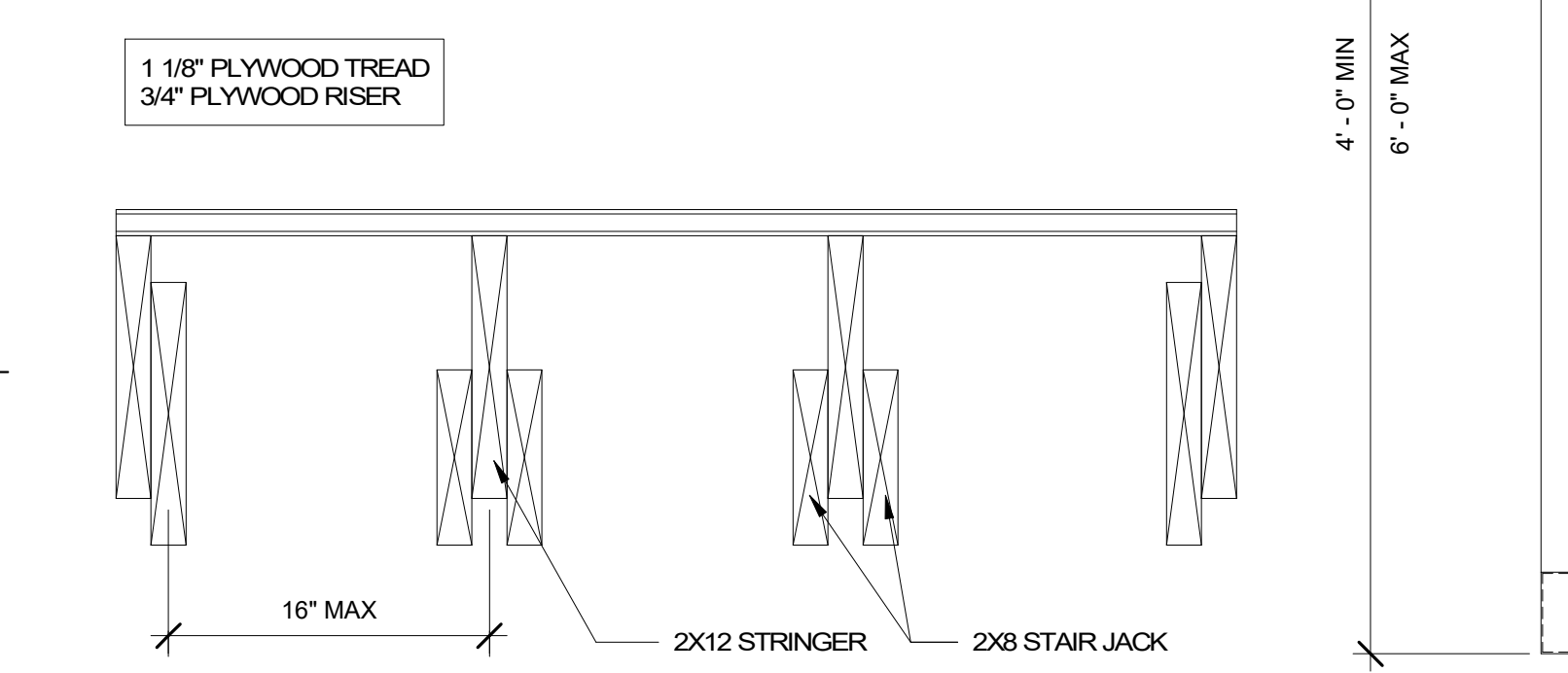
6 WAREHOUSE STAIR - SECTION  
A7.10 1/4" = 1'-0"



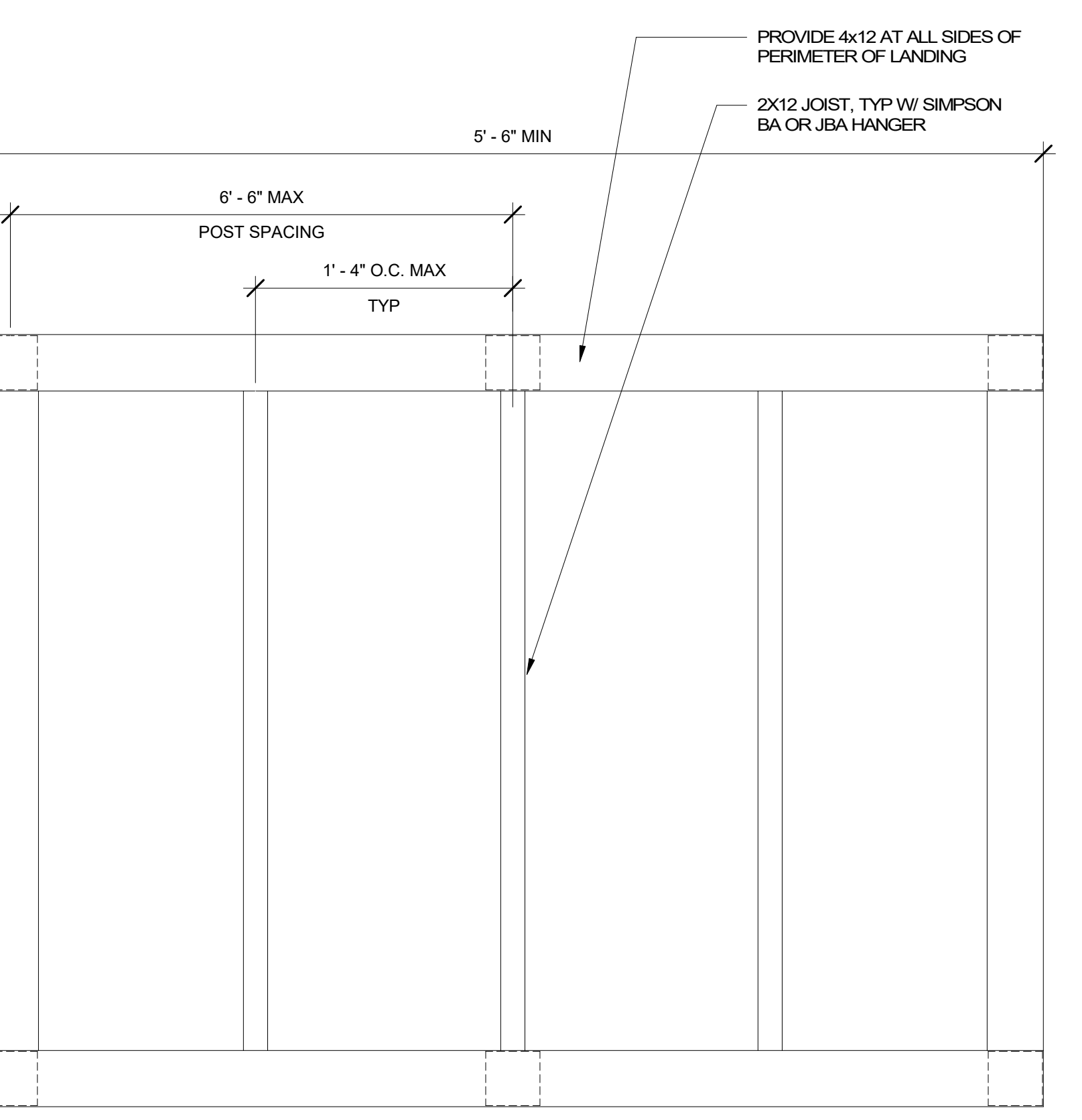
11 TYPICAL HANDRAIL  
A7.10 3" = 1'-0"



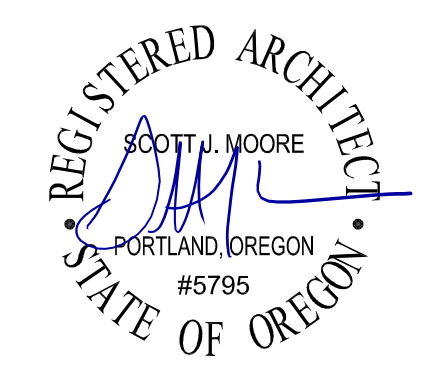
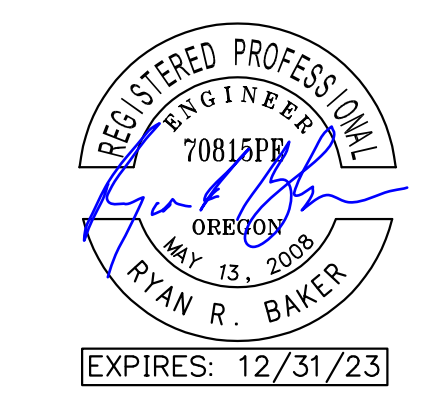
12 TYPICAL STAIR TREAD RISER  
A7.10 1 1/2" = 1'-0"



13 TYPICAL STAIR TREAD SECTION  
A7.10 1 1/2" = 1'-0"



14 TYPICAL STAIR LANDING FRAME  
A7.10 1 1/2" = 1'-0"



© MACKENZIE  
2023 ALL RIGHTS RESERVED  
THESE DRAWINGS ARE THE PROPERTY OF  
MACKENZIE AND ARE NOT TO BE USED  
OR REPRODUCED IN ANY MANNER  
WITHOUT PRIOR WRITTEN PERMISSION

REVISION SCHEDULE		
Delta	Issued As	Issue Date

SHEET TITLE:  
**STAIR PLANS**

SHEET

**A7.10**

JOB NO. **2200502.00**