

ABBREVIATIONS FOR L-SERIES DRAWINGS

ABBREVIATIONS ARE VALID WITH OR WITHOUT PERIODS

A.F.F.	above finish floor	D.B.H.	diameter breast height
AC.	acres	DIM.	dimension
ADD.	addendum	DIV.	division
ADJ.	adjustable	D.S.	downspout
AGG.	aggregate	D.T.	drain tile
ALT.	alternate	DWS.	drinking
ALUM.	aluminum	D.F.	drinking fountain
ANC.	anchor, anchorage		
ANOD.	anodized	E.W.	each way
APPROX.	approximate	E.	east
ARCH.	architect(ural)	ELEC.	electric(al)
A.D.	area drain	EL.	elevation
ASPH.	asphalt	ENCL.	enclosure(ure)
B&B	balled and burlapped	ENG.	engineer
B.M.	bench mark	EQ.	equal
BLK.	bituminous	EQUIP.	equipment
BLK.	black	EST.	estimate
BTM.	bottom	EXIST.	existing
B.C.	bottom of curb	EXP.	exposed
B.S.	bottom of steps	EXT.	exterior
B.W.	bottom of wall		
BRK.	brick	FIN.	finish(ed)
BLDG.	building	F.F.E.	finished floor elevation
		F.G.	finish grade
CAL.	caliper	FLG.	flashing
CK.	caulk(ing) caulk(ing)	FLX.	flexible
C.I.	cast iron	F.H.	fire hydrant
C.I.P.C.	cast-in-place concrete	FL.	floor
C.B.	catch basin	FT.	foot or feet
CEM.	cement	FTG.	footing
C.L.	center line	FND.	foundation
C.C.	center to center	FUT.	future
C-C	center to center		
CM.	centimeter(s)	GA.	gage, gauge
CHAM.	chanter	GALV.	galvanized
C.L.F.	chain link fence	G.V.	gas valve
CIR.	circle	G.C.	general contract(or)
CIRC.	circumference	GD.	grade, grading
CLR.	clear(ance)	GVL.	gravel
CONC.	concrete	G.	gutter
C.M.U.	concrete masonry unit		
CONST.	construction	HDN.	hardware
CONT.	container	HWD.	hardwood
C.L.L.	contract limit line	HDR.	header
C.J.	contraction joint	H.D.	heavy duty
C.M.P.	corrugated metal pipe	HT.	height
CORR.	corrugated	H.P.	high point
CS.	countersink	HOR.	horizontal
CRS.	course(s)	H.B.	hose bibb
C.F.	cubic foot	INC.	include (d), (ing)
C.Y.	cubic yard	I.D.	inside diameter
		INT.	interior
DP.	dampproofing	INV.	invert
D.	degree of curvature	I.J.	isolation joint
DEMO.	demolish, demolition		
DEP.	depressed	JT.	joint
DTL.	detail		
DIAG.	diagonal		
DIA.	diameter		

L.	length (of curve)	L.T.	light
L.F.	linear feet	L.O.D.	limit of disturbance
L.P.	low point	L.P.	low point
L.S.A.	landscape area (exist)		
		M.H.	manhole
M.F.	manufacture(er)	MFR.	manhole
MAX.	maximum	MECH.	mechanic(al)
MED.	medium	MTL.	metal
N.	not	N.S.	not to scale
MM.	millimeter(s)	MIN.	minimum
MOD.	modular	MISC.	miscellaneous
		NOM.	nominal
N.	north	N.I.C.	not in contact
N.T.S.	number	NO.	number
O.C.	on center(s)		
OFF.	opposite	O.G.	original
O.H.	opposite hand	OFF.	opposite
O.D.	outside diameter		
		PADOT	PennDOT
PTD.	point	PTD.	point
P.V.	paving	P.V.	paving
P.V.M.T.	pavement	P.V.M.T.	pavement
PERF.	perforate(d)	PL.	plate
PL.	plywood	P.W.	plywood
P.T.	point	P.V.C.	polyvinyl chloride
P.S.F.	pounds per square foot	P.S.F.	pounds per square foot
P.S.I.	pound per square inch	P.S.I.	pound per square inch
P.C.C.	point of compound curvature	P.C.C.	point of compound curvature
P.C.	point of curvature	P.I.	point of intersection
P.R.C.	point of reverse curvature	P.R.C.	point of reverse curvature
P.T.	point of tangent	P.T.	point of tangent
P.V.C.	point of vertical curvature	P.V.C.	point of vertical curvature
P.V.I.	point of vertical intersection	P.V.I.	point of vertical intersection
P.V.T.	point of vertical tangent	P.V.T.	point of vertical tangent
PL.	property line		
		R.	radius
RL.	rail(ing)	RL.	rail(ing)
R.G.	rain garden	R.G.	rain garden
R.W.C.	rainwater conductor	R.W.C.	rainwater conductor
REF.	reference	REF.	reference
REBAR.	reinforcement bar	REBAR.	reinforcement bar
R.O.P.	reinforced concrete pipe	R.O.P.	reinforced concrete pipe
REINF.	reinforcing	REINF.	reinforcing
REV.	revision(s), revised	REV.	revision(s), revised
R.E.	rim elevation	R.E.	rim elevation
REQ.	required	REQ.	required
R.O.W.	right of way	R.O.W.	right of way
RIS.	riser		

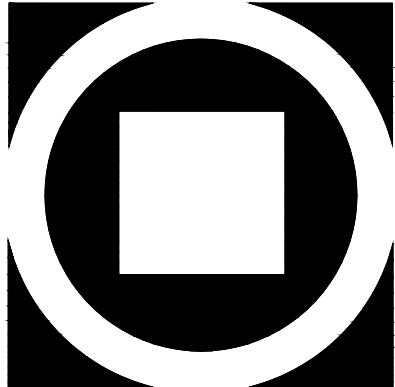
R.D.	road	T.	tangent
R.D.	roof drain	TEL.	telephone
		THK.	thick(ness)
SAN.	sanitary	TOL.	tolerance
SCH.	schedule	T.C.	top of curb
SC.	score line	T.S.	top of steps
SEC.	section	T.SL.	top of slab
SHT.	sheet	T.N.	top of nail
SIM.	similar	TRD.	tread
SL.	sleeve	TYP.	typical
S.	south		
SP(?S).	space(s)	U.O.N.	unless otherwise noted
SPEC.	specification		
SQ.	square	VAR.	varies
S.S.T.	stainless steel	VERT.	vertical
STD.	standard	V.C.	vertical curve
STA.	station	V.I.F.	verify in field
STL.	steel		
SD.	storm drain		
ST.	street		
STR.	structural		
		W.	west
		W.H.S.	wheel stop
		W.	width, wide
		W.	with
		W/O	without
		WM.	wood
		W.W.M.	woven wire mesh
		W.W.F.	welded wire fabric
		Misc.	
		@	at
		′	feet, minutes
		″	inches, seconds
		°	degrees
		Q	center line
		Ø	round diameter
		#	pound, number

GENERAL NOTES FOR L-SERIES DRAWINGS

- REVIEW CONTRACT DOCUMENTS AND FIELD CONDITIONS BEFORE STARTING EACH PORTION OF THE WORK. REPORT ERRORS, OMISSIONS, OR INCONSISTENCIES PROMPTLY TO OWNER'S REPRESENTATIVE AND LANDSCAPE ARCHITECT AND RESOLVE ISSUE PRIOR TO STARTING EACH PORTION OF THE WORK.
- EXISTING SITE FEATURES AND TOPOGRAPHY AS SHOWN ARE FROM TOPOGRAPHIC SURVEY PLAN TITLED "BOUNDARY AND TOPOGRAPHIC SURVEY" DATED 10/4/2024 BY CONTROL POINT INC.
- CONTACT UTILITY COMPANIES AS REQUIRED BY STATE AND LOCAL REGULATIONS BEFORE DIGGING TO LOCATE AND MARK EXISTING UTILITIES. HIRE UTILITY LOCATION SERVICE FOR THE PROJECT. MAINTAIN MARKINGS THROUGHOUT THE PERIOD OF WORK.
 - EXERCISE CARE IN OPERATIONS TO PROTECT EXISTING & PROPOSED UNDERGROUND UTILITIES.
 - CONTRACTORS WORKING ON THIS PROJECT SHALL VERIFY LOCATION AND DEPTH OF UNDERGROUND UTILITIES/FACILITIES PRIOR TO START OF WORK AND SHALL COMPLY WITH THE REQUIREMENTS OF P.L. 852, NO 287 DECEMBER 10, 1974 AS LAST AMENDED ON APRIL 28, 2018, PENNSYLVANIA ACT 50, AND ANY SUBSEQUENT UPDATES.
- SURFACE TRANSITIONS, HANDRAILS, AND STEPS SHALL COMPLY WITH 2010 ADA STANDARDS.
- SPECIFIED PRODUCTS ARE TO BE USED FOR BIDDING AND CONSTRUCTION. SUBSTITUTION REQUESTS MUST DOCUMENT "OR EQUAL" OR BETTER QUALITY AND PERFORMANCE IN ACCORDANCE WITH DIVISION 01 SPECIFICATIONS "SUBSTITUTION PROCEDURES" AND AS FURTHER RESTRICTED IN DRAWINGS AND SPECIFICATIONS. THE LANDSCAPE ARCHITECT RETAINS SOLE DISCRETION WHEN DETERMINING IF VISUAL QUALITY OF A SUBSTITUTION IS "OR EQUAL", AND IF PLANT MATERIAL CHARACTERISTICS IS "OR EQUAL".
- STAKE LOCATIONS OF PROPOSED SURFACE UTILITY AND LIGHTING FEATURES (AND NEARBY PROPOSED PAVING EDGES) ON SITE FOR REVIEW BY OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION. PROVIDE MINOR LOCATION ADJUSTMENTS TO SURFACE UTILITY FEATURES AS REQUESTED, PRIOR TO INSTALLING FOOTINGS, PADS AND FEATURES.
 - INCLUDE STAKING OF SURFACE STORMWATER, LIGHTING, ELECTRICAL, AND WATER ITEMS, FOR REVIEW.
- DRAWINGS MUST BE REVIEWED / PRINTED IN COLOR FOR PROPER UNDERSTANDING OF DRAWINGS.
- L DRAWINGS ARE NOT FOR CONSTRUCTION UNTIL ISSUED "FOR CONSTRUCTION" BY THINKGREEN, UNTIL MUNICIPAL APPROVALS AND PERMITS HAVE BEEN COMPLETED, AND UNTIL SUBMITTAL PROCESS HAS BEEN COMPLETED FOR EACH ITEM LISTED ON DRAWINGS AND SPECIFICATIONS. PLAN AHEAD FOR LONG-LEAD TIME ITEMS, AND FOR THE SUBMITTAL REVIEW AND RE-SUBMITTAL PROCESS.
- PROVIDE COMPLETE L-SERIES DRAWINGS TO EMPLOYEES AND SUBCONTRACTORS DOING EXTERIOR ELECTRICAL/LIGHTING, C-SERIES WORK, AND L-SERIES WORK; COORDINATE TRADES AND INTERFACES.
- FOR ITEMS AND PROCEDURES NOT DESCRIBED IN CONSTRUCTION DOCUMENTS, FOLLOW PENNDOT PUBLICATION 408/2020 INCLUDING UPDATE CHANGES.
- FOR ANY CONFLICTS IN DRAWINGS, SPECIFICATIONS OR REFERENCED STANDARDS, THE STRICTER REQUIREMENTS APPLY UNLESS OTHERWISE ACCEPTED BY LANDSCAPE ARCHITECT.
- PROVIDE SOIL STABILITY MEANS AND METHODS AT EXCAVATIONS AS REQUIRED FOR SOIL STABILITY, STABILITY OF ADJACENT FEATURES, AND TO MEET CODE REQUIREMENTS.

DRAWING LIST FOR L-SERIES DRAWINGS

L0.0	ABBREVIATIONS & GENERAL NOTES
L1.0	TREE REMOVAL PLAN
L2.0	MATERIALS PLAN
L2.1	ENLARGEMENT PLAN
L2.2	LAYOUT PLAN
L3.0	WEST PLAZA GRADING PLAN
L4.0	ADD ALT SEATING & PLAZA
L5.0	PLANTING PLAN
L6.0	SECTIONS
L6.1	SECTIONS
L7.0	DETAILS
L7.1	DETAILS



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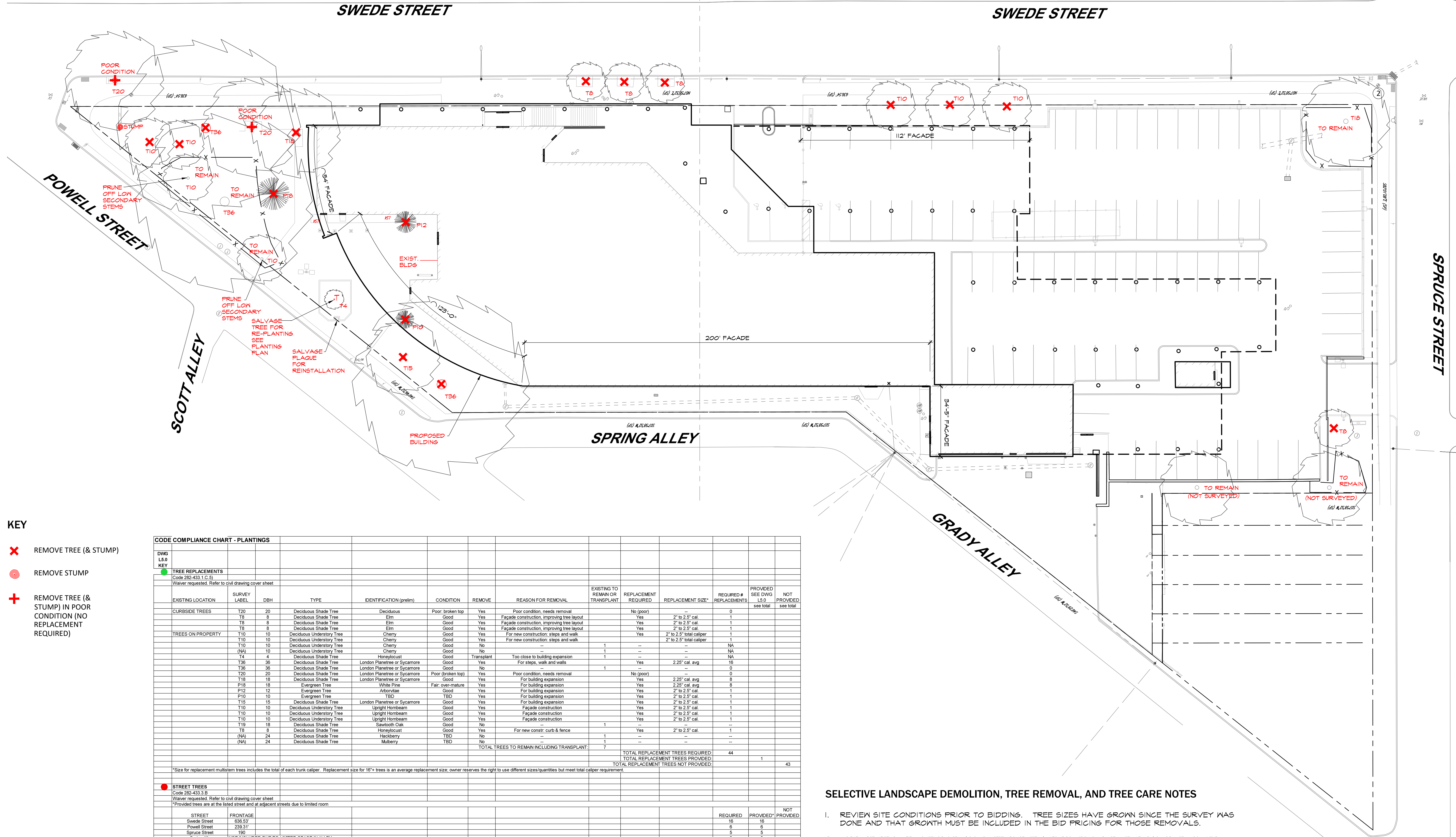
ThinkGreen
Landscape Architecture, Ecological Design & Construction
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MONTGOMERY COUNTY
NORRISTOWN PUBLIC LIBRARY
1001 POWELL STREET
NORRISTOWN, PA 19401

CONSTRUCTION ISSUE DATE:	DRAWN BY: LVCS/JEN	CHECKED BY: PJ	SCALE AS NOTED
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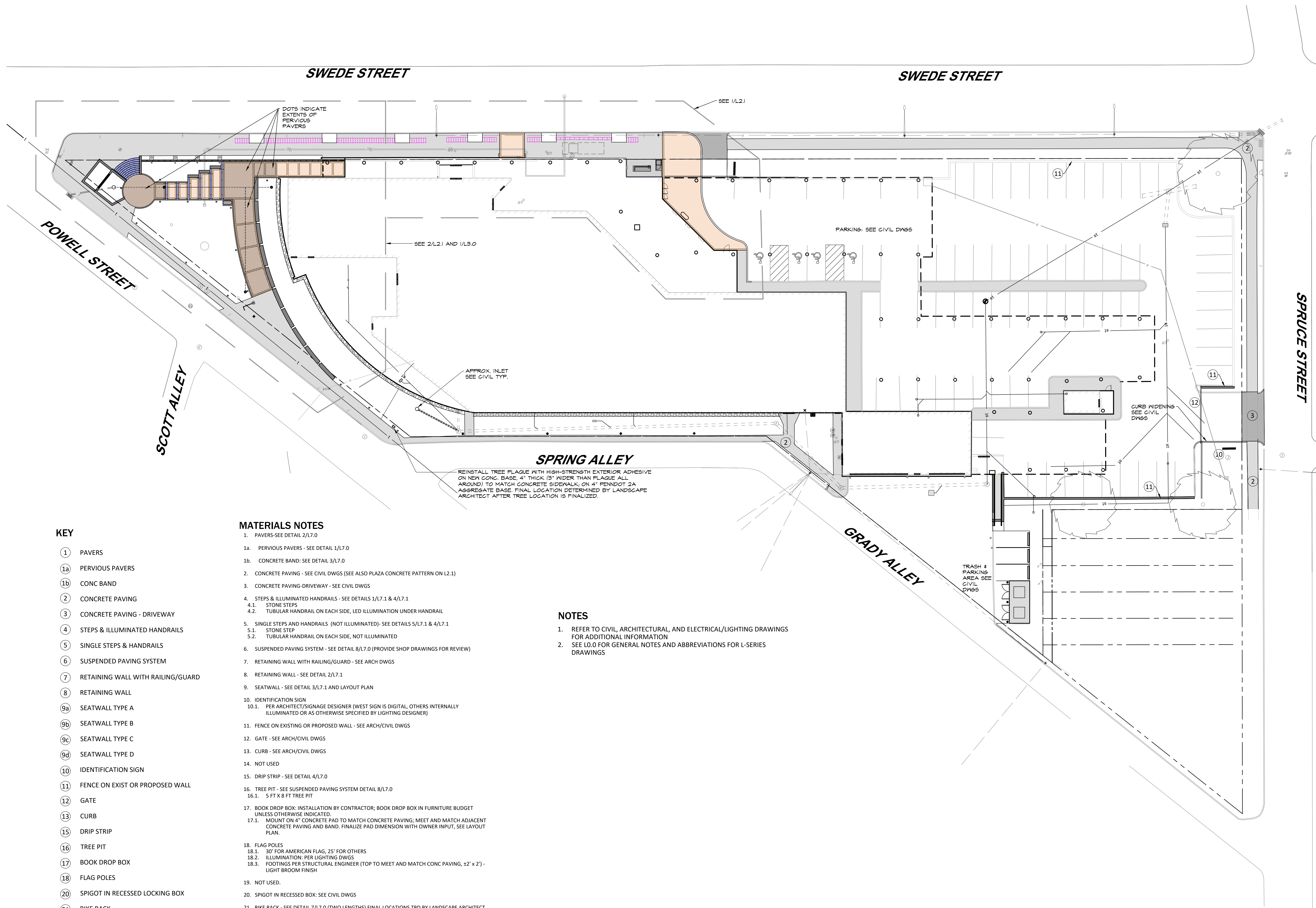
Sheet Name: Abbrev. and Gen. Notes	DATE	Notes
NO.	DESCRIPTION	
	BID & PERMIT	

L0.0



- KEY
- ✕ REMOVE TREE (& STUMP)
 - ⊗ REMOVE STUMP
 - ✚ REMOVE TREE (& STUMP) IN POOR CONDITION (NO REPLACEMENT REQUIRED)

CODE COMPLIANCE CHART - PLANTINGS															
DWG L5.0 KEY	EXISTING LOCATION	SURVEY LABEL	DBH	TYPE	IDENTIFICATION (prelim)	CONDITION	REMOVE	REASON FOR REMOVAL	EXISTING TO REMAIN OR TRANSPLANT	REPLACEMENT REQUIRED	REPLACEMENT SIZE*	REQUIRED # REPLACEMENTS	PROVIDED SEE DWG L5.0 (see total)	NOT PROVIDED (see total)	
 TREE REPLACEMENTS Code 282-433.1.C.5 Waiver requested. Refer to civil drawing cover sheet	CURBSIDE TREES	T20	20	Deciduous Shade Tree	Deciduous	Poor: broken top	Yes	Poor condition, needs removal		No (poor)	---	0			
		T8	8	Deciduous Shade Tree	Elm	Good	Yes	Facade construction, improving tree layout		Yes	2" to 2.5" cal.	1	1		
		T8	8	Deciduous Shade Tree	Elm	Good	Yes	Facade construction, improving tree layout		Yes	2" to 2.5" cal.	1	1		
	TREES ON PROPERTY	T10	10	Deciduous Understory Tree	Cherry	Good	Yes	For new construction: steps and walk		Yes	2" to 2.5" total caliper	1	1		
		T10	10	Deciduous Understory Tree	Cherry	Good	No	---	1	---	---	NA	NA		
		(NA)	10	Deciduous Understory Tree	Cherry	Good	No	---	1	---	---	NA	NA		
		T4	4	Deciduous Shade Tree	Honeylocust	Good	Transplant	Too close to building expansion		1	---	---	NA	NA	
		T36	36	Deciduous Shade Tree	London Planetree or Sycamore	Good	Yes	For steps, walk and walls		Yes	2.25" cal. avg.	16	16		
		T36	36	Deciduous Shade Tree	London Planetree or Sycamore	Good	No	---	1	---	---	0	0		
		T20	20	Deciduous Shade Tree	London Planetree or Sycamore	Poor (broken top)	Yes	Poor condition, needs removal		No (poor)	---	0	0		
		T18	18	Deciduous Shade Tree	London Planetree or Sycamore	Good	Yes	For building expansion		Yes	2.25" cal. avg.	8	8		
		P18	18	Evergreen Tree	White Pine	Fair: over-mature	Yes	For building expansion		Yes	2.25" cal. avg.	8	8		
		P12	12	Evergreen Tree	Arbutus	Good	Yes	For building expansion		Yes	2" to 2.5" cal.	1	1		
		P10	10	Evergreen Tree	TBD	TBD	Yes	For building expansion		Yes	2" to 2.5" cal.	1	1		
	 STREET TREES Code 282-433.3.B Waiver requested. Refer to civil drawing cover sheet *Provided trees are at the listed street and all adjacent streets due to limited room		T15	15	Deciduous Shade Tree	London Planetree or Sycamore	Good	Yes	For building expansion		Yes	2" to 2.5" cal.	1	1	
		T10	10	Deciduous Understory Tree	Upright Hornbeam	Good	Yes	Facade construction		Yes	2" to 2.5" cal.	1	1		
		T10	10	Deciduous Understory Tree	Upright Hornbeam	Good	Yes	Facade construction		Yes	2" to 2.5" cal.	1	1		
		T10	10	Deciduous Understory Tree	Upright Hornbeam	Good	No	---	1	---	---	1	1		
		T19	19	Deciduous Shade Tree	Sawtooth Oak	Good	No	---	1	---	---	1	1		
		T8	8	Deciduous Shade Tree	Honeylocust	Good	Yes	For new constr: curb & fence		Yes	2" to 2.5" cal.	1	1		
		(NA)	24	Deciduous Shade Tree	Hackberry	TBD	No	---	1	---	---	1	1		
		(NA)	24	Deciduous Shade Tree	Mulberry	TBD	No	---	1	---	---	1	1		
TOTAL TREES TO REMAIN INCLUDING TRANSPLANT:									7	TOTAL REPLACEMENT TREES REQUIRED		44	1	43	
									TOTAL REPLACEMENT TREES PROVIDED						
									TOTAL REPLACEMENT TREES NOT PROVIDED						
*Size for replacement multistem trees includes the total of each trunk caliper. Replacement size for 18" trees is an average replacement size, owner reserves the right to use different sizes/quantities but meet total caliper requirement.															
 BUFFER AREA LOCATION AND DIMENSIONS Code 282-433.2.C Waiver requested. Refer to civil drawing cover sheet		STREET	FRONTAGE										REQUIRED	PROVIDED	NOT PROVIDED
		Sweet Street	635.53										16	16	
		Powell Street	239.31										6	6	
	Spruce Street	190										5	5		
	Spring Alley		NOT INCLUDED DUE TO LIMITED SPACE IN ALLEY									0	0		
	Grady Alley		NOT INCLUDED DUE TO LIMITED SPACE IN ALLEY									0	0		
	TOTAL STREET TREES REQUIRED AT 40' O.C.												27		
	TOTAL STREET TREES PROVIDED (EXISTING + PROPOSED)													27	
	TOTAL STREET TREES NOT PROVIDED														0
 BUFFER AREA LOCATION AND DIMENSIONS Code 282-433.2.C Waiver requested. Refer to civil drawing cover sheet															
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KEY

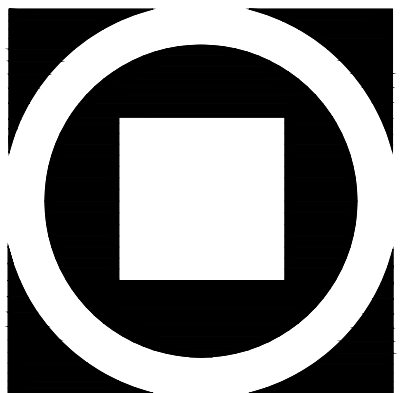
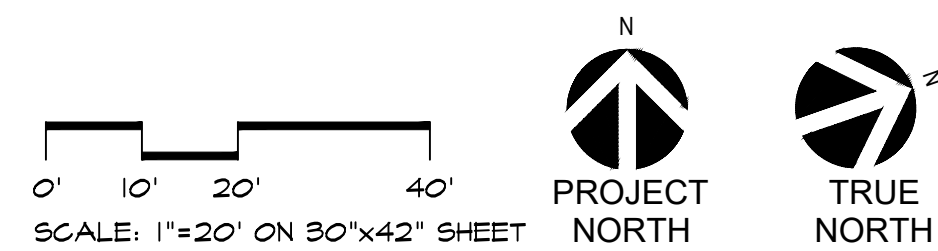
- ① PAVERS
- ①a PERVIOUS PAVERS
- ①b CONC BAND
- ② CONCRETE PAVING
- ③ CONCRETE PAVING - DRIVEWAY
- ④ STEPS & ILLUMINATED HANDRAILS
- ⑤ SINGLE STEPS & HANDRAILS
- ⑥ SUSPENDED PAVING SYSTEM
- ⑦ RETAINING WALL WITH RAILING/GUARD
- ⑧ RETAINING WALL
- ⑨a SEATWALL TYPE A
- ⑨b SEATWALL TYPE B
- ⑨c SEATWALL TYPE C
- ⑨d SEATWALL TYPE D
- ⑩ IDENTIFICATION SIGN
- ⑪ FENCE ON EXIST OR PROPOSED WALL
- ⑫ GATE
- ⑬ CURB
- ⑮ DRIP STRIP
- ⑮ TREE PIT
- ⑰ BOOK DROP BOX
- ⑰ FLAG POLES
- ⑰ SPIGOT IN RECESSED LOCKING BOX
- ⑰ BIKE RACK
- ⑰ LITTER/RECYCLING RECEPTACLE
- ⑰ CRUSHED STONE PAVING

MATERIALS NOTES

1. PAVERS-SEE DETAIL 2/L7.0
- 1a. PERVIOUS PAVERS - SEE DETAIL 1/L7.0
- 1b. CONCRETE BAND: SEE DETAIL 3/L7.0
2. CONCRETE PAVING - SEE CIVIL DWGS (SEE ALSO PLAZA CONCRETE PATTERN ON L2.1)
3. CONCRETE PAVING-DRIVEWAY - SEE CIVIL DWGS
4. STEPS & ILLUMINATED HANDRAILS - SEE DETAILS 1/L7.1 & 4/L7.1
- 4.1. STONE STEPS
- 4.2. TUBULAR HANDRAIL ON EACH SIDE, LED ILLUMINATION UNDER HANDRAIL
5. SINGLE STEPS AND HANDRAILS (NOT ILLUMINATED)- SEE DETAILS 5/L7.1 & 4/L7.1
- 5.1. STONE STEP
- 5.2. TUBULAR HANDRAIL ON EACH SIDE, NOT ILLUMINATED
6. SUSPENDED PAVING SYSTEM - SEE DETAIL 8/L7.0 (PROVIDE SHOP DRAWINGS FOR REVIEW)
7. RETAINING WALL WITH RAILING/GUARD - SEE ARCH DWGS
8. RETAINING WALL - SEE DETAIL 2/L7.1
9. SEATWALL - SEE DETAIL 3/L7.1 AND LAYOUT PLAN
10. IDENTIFICATION SIGN
- 10.1. PER ARCHITECT/SIGNAGE DESIGNER (WEST SIGN IS DIGITAL, OTHERS INTERNALLY ILLUMINATED OR AS OTHERWISE SPECIFIED BY LIGHTING DESIGNER)
11. FENCE ON EXISTING OR PROPOSED WALL - SEE ARCH/CIVIL DWGS
12. GATE - SEE ARCH/CIVIL DWGS
13. CURB - SEE ARCH/CIVIL DWGS
14. NOT USED
15. DRIP STRIP - SEE DETAIL 4/L7.0
16. TREE PIT - SEE SUSPENDED PAVING SYSTEM DETAIL 8/L7.0
- 16.1. 5 FT X 8 FT TREE PIT
17. BOOK DROP BOX: INSTALLATION BY CONTRACTOR; BOOK DROP BOX IN FURNITURE BUDGET UNLESS OTHERWISE INDICATED.
- 17.1. MOUNT ON 4" CONCRETE PAD TO MATCH CONCRETE PAVING; MEET AND MATCH ADJACENT CONCRETE PAVING AND BAND. FINALIZE PAD DIMENSION WITH OWNER INPUT, SEE LAYOUT PLAN.
18. FLAG POLES
- 18.1. 30' FOR AMERICAN FLAG, 25' FOR OTHERS
- 18.2. ILLUMINATION: PER LIGHTING DWGS
- 18.3. FOOTINGS PER STRUCTURAL ENGINEER (TOP TO MEET AND MATCH CONC PAVING, ±2' x 2') - LIGHT BROOM FINISH
19. NOT USED.
20. SPIGOT IN RECESSED BOX: SEE CIVIL DWGS
21. BIKE RACK - SEE DETAIL 7/L7.0 (TWO LENGTHS) FINAL LOCATIONS TBD BY LANDSCAPE ARCHITECT DURING REVIEW ON SITE.
22. LITTER/RECYCLING RECEPTACLE
- 22.1. SEE SPEC
- 22.2. WEST: MOUNT ON 4" CONCRETE PAD TO MATCH CONCRETE PAVING; MEET AND MATCH ADJACENT CONCRETE BAND
- 22.3. EAST: MOUNT ON PAVERS USING EXTENDED BOLTS INTO CONCRETE PAD BELOW PAVERS, PER SPEC
23. CRUSHED STONE PAVING
- 23.1. 3/8" GRAY CRUSHED STONE 2" DEEP ON MATCHING 3/4" CRUSHED STONE 2" DEEP ON WOVEN GEOTEXTILE; COMPACT FIRM. FINISH GRADE FLUSH WITH SURROUNDING PAVEMENT.

NOTES

1. REFER TO CIVIL, ARCHITECTURAL, AND ELECTRICAL/LIGHTING DRAWINGS FOR ADDITIONAL INFORMATION
2. SEE L0.0 FOR GENERAL NOTES AND ABBREVIATIONS FOR L-SERIES DRAWINGS



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Sheet Name: Materials Plan		DATE	
NO.	DESCRIPTION	BID & PERMIT	

L2.0

KEY

- 1 PAVERS
1a PERVIOUS PAVERS
1b CONC BAND
2 CONCRETE PAVING
3 CONCRETE PAVING - DRIVEWAY
4 STEPS & ILLUMINATED HANDRAILS
4.1 STONE STEPS
5 SINGLE STEPS & HANDRAILS
6 SUSPENDED PAVING SYSTEM
7 RETAINING WALL WITH RAILING/GUARD
8 RETAINING WALL
9a SEATWALL TYPE A
9b SEATWALL TYPE B
9c SEATWALL TYPE C
9d SEATWALL TYPE D
10 IDENTIFICATION SIGN
11 FENCE ON EXIST OR PROPOSED WALL
12 GATE
13 CURB
15 DRIP STRIP
16 TREE PIT
17 BOOK DROP BOX
18 FLAG POLES
20 SPIGOT IN RECESSED LOCKING BOX
21 BIKE RACK
22 LITTER/RECYCLING RECEPTACLE
23 CRUSHED STONE PAVING

MATERIALS NOTES

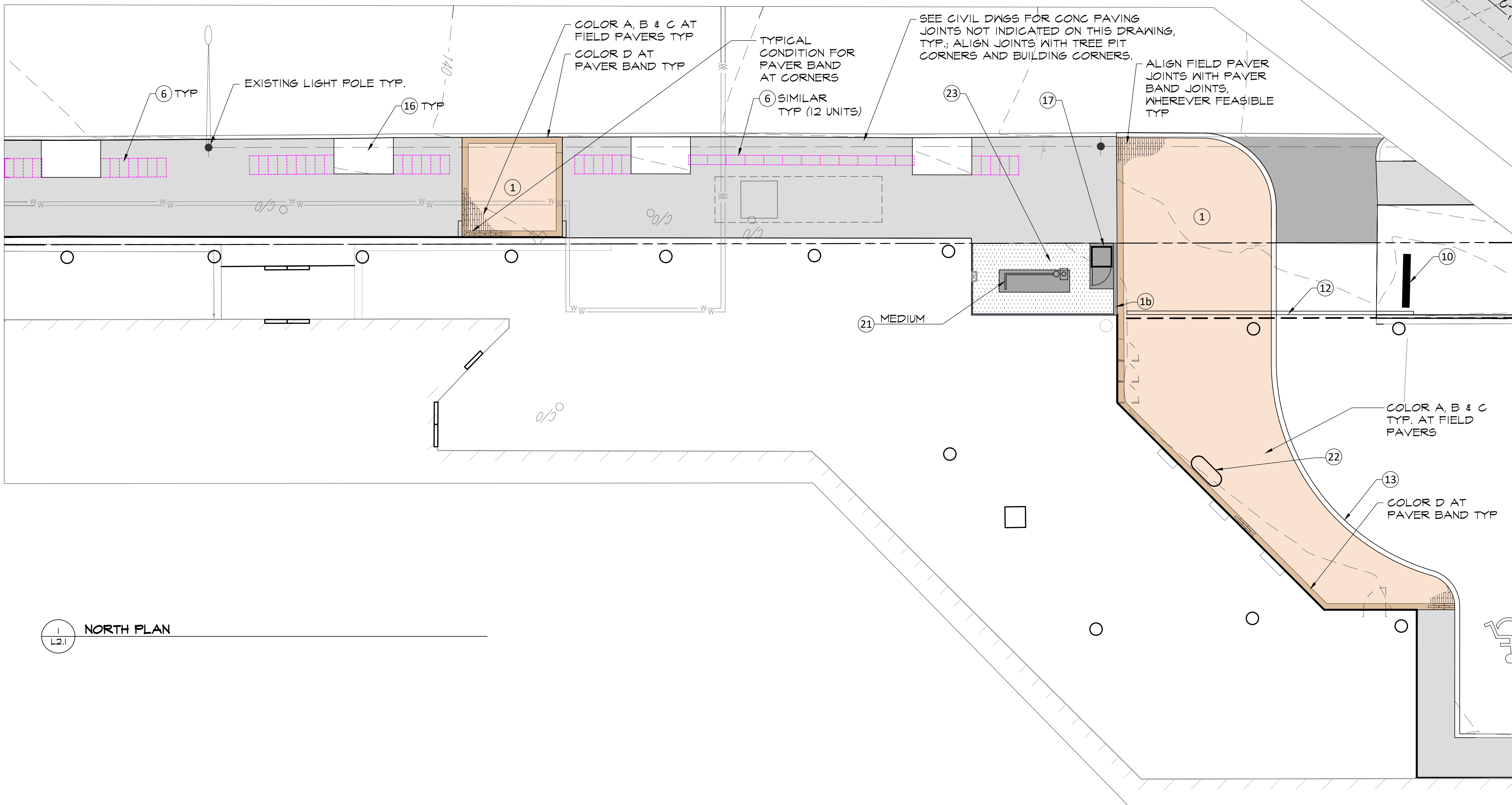
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1a. PERVIOUS PAVERS - SEE DETAIL 1/L7.0
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2. CONCRETE PAVING - SEE CIVIL DWGS (SEE ALSO PLAZA CONCRETE PATTERN ON L2.1)
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NOTES

1. REFER TO CIVIL, ARCHITECTURAL, AND ELECTRICAL/LIGHTING DRAWINGS FOR ADDITIONAL INFORMATION
2. SEE L.O.0 FOR GENERAL NOTES AND ABBREVIATIONS FOR L-SERIES DRAWINGS
3. PROVIDE ISOLATION JOINTS (A.K.A. EXPANSION JOINTS) WHERE CONCRETE PAVING ABUTS STRUCTURES, WALLS, CURBS, FOOTINGS, EXISTING CONCRETE AND AS INDICATED BY CIVIL ENGINEER.
3.1. REFER TO CIVIL DWGS FOR ADDITIONAL JOINT INFORMATION; PATTERNS INDICATED ON PLANS SUPERCEDE GENERAL JOINT SPACING NOTES ON DETAILS

LEGEND

- IJ ISOLATION JOINT ("EXPANSION JOINT" PER CIVIL'S SIDEWALK DETAIL)
EJ EXPANSION JOINT
CJ CONTRACTION JOINT ("DUMMY JOINT" PER CIVIL'S SIDEWALK DETAIL)



NOTE:
REFER TO L2.0 FOR EXTENTS OF
PERVIOUS PAVERS

SEE CIVIL DWGS FOR
CONC PAVING JOINTS
NOT INDICATED ON
THIS DRAWING, TYP.;
ALIGN JOINTS WITH
TREE PIT CORNERS
AND BUILDING
CORNERS.

TYPICAL
CONDITION FOR
PAVER BANDS
AT CORNERS

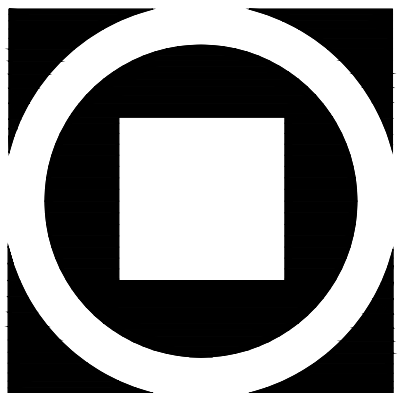
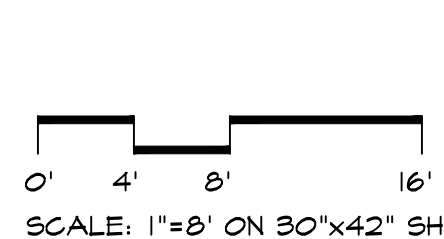
ALIGN FIELD PAV
JOINTS WITH EDG
PAVER JOINTS (IN
NORTH SOUTH
BANDS),
WHEREVER FEAS
TYP

LAY PAVERS
CURVING TO
MATCH WALK
RADI

SEE L4.0 FOR
ADD ALT
TYPEWRITER
KEY SEATING &
ADD ALT SOUTH
PLAZA

LAYOUT NOTE 1:
EXPANSION JOINTS ALIGN WITH
CENTERS OF GAPS IN SEAT
WALLS. IF USING TYPEWRITER
KEY SEAT ADD ALT THEN
CONTACT LANDSCAPE
ARCHITECT FOR LAYOUT PLAN,
REVIEW IN FIELD WITH
LANDSCAPE ARCHITECT

2 WEST PLAN
L2.1



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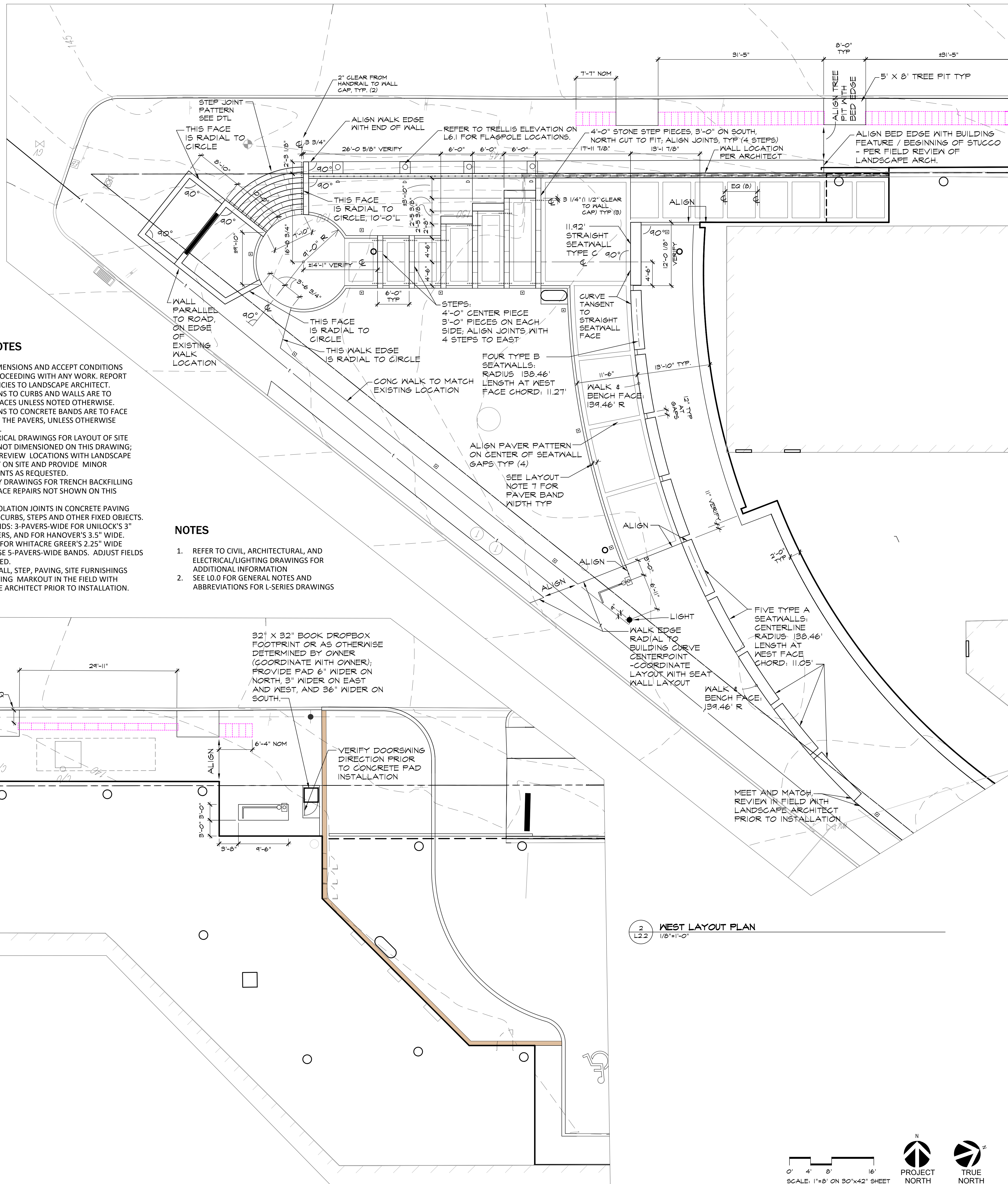
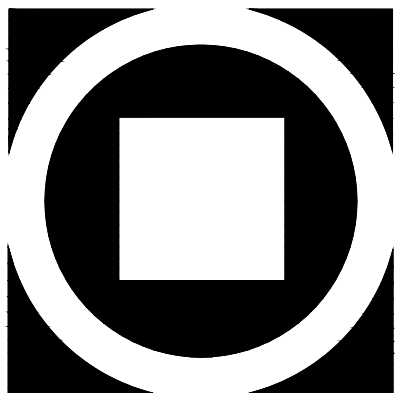
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Sheet Name: Enlargement Plan	DATE
DESCRIPTION	10/9/2025
BID & PERMIT	
NO.	

L2.1



LAYOUT NOTES

1. VERIFY DIMENSIONS AND ACCEPT CONDITIONS BEFORE PROCEEDING WITH ANY WORK. REPORT DISCREPANCIES TO LANDSCAPE ARCHITECT.
2. DIMENSIONS TO CURBS AND WALLS ARE TO EXPOSED FACES UNLESS NOTED OTHERWISE.
3. DIMENSIONS TO CONCRETE BANDS ARE TO FACE TOUCHING THE PAVERS, UNLESS OTHERWISE INDICATED.
4. SEE ELECTRICAL DRAWINGS FOR LAYOUT OF SITE LIGHTING NOT DIMENSIONED ON THIS DRAWING; FLAG AND REVIEW LOCATIONS WITH LANDSCAPE ARCHITECT ON SITE AND PROVIDE MINOR ADJUSTMENTS AS REQUESTED.
5. SEE UTILITY DRAWINGS FOR TRENCH BACKFILLING AND SURFACE REPAIRS NOT SHOWN ON THIS DRAWING.
6. INSTALL ISOLATION JOINTS IN CONCRETE PAVING ABUTTING CURBS, STEPS AND OTHER FIXED OBJECTS.
7. PAVER BANDS: 3-PAVERS-WIDE FOR UNILOCK'S 3" WIDE PAVERS, AND FOR HANOVER'S 3.5" WIDE. HOWEVER FOR WHITACRE GREER'S 2.25" WIDE PAVERS, USE 5-PAVERS-WIDE BANDS. ADJUST FIELDS AS REQUIRED.
8. REVIEW WALL, STEP, PAVING, SITE FURNISHINGS AND LIGHTING MARKOUT IN THE FIELD WITH LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.

NOTES

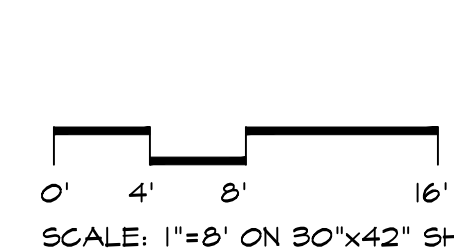
1. REFER TO CIVIL, ARCHITECTURAL, AND ELECTRICAL/LIGHTING DRAWINGS FOR ADDITIONAL INFORMATION
2. SEE L0.0 FOR GENERAL NOTES AND ABBREVIATIONS FOR L-SERIES DRAWINGS

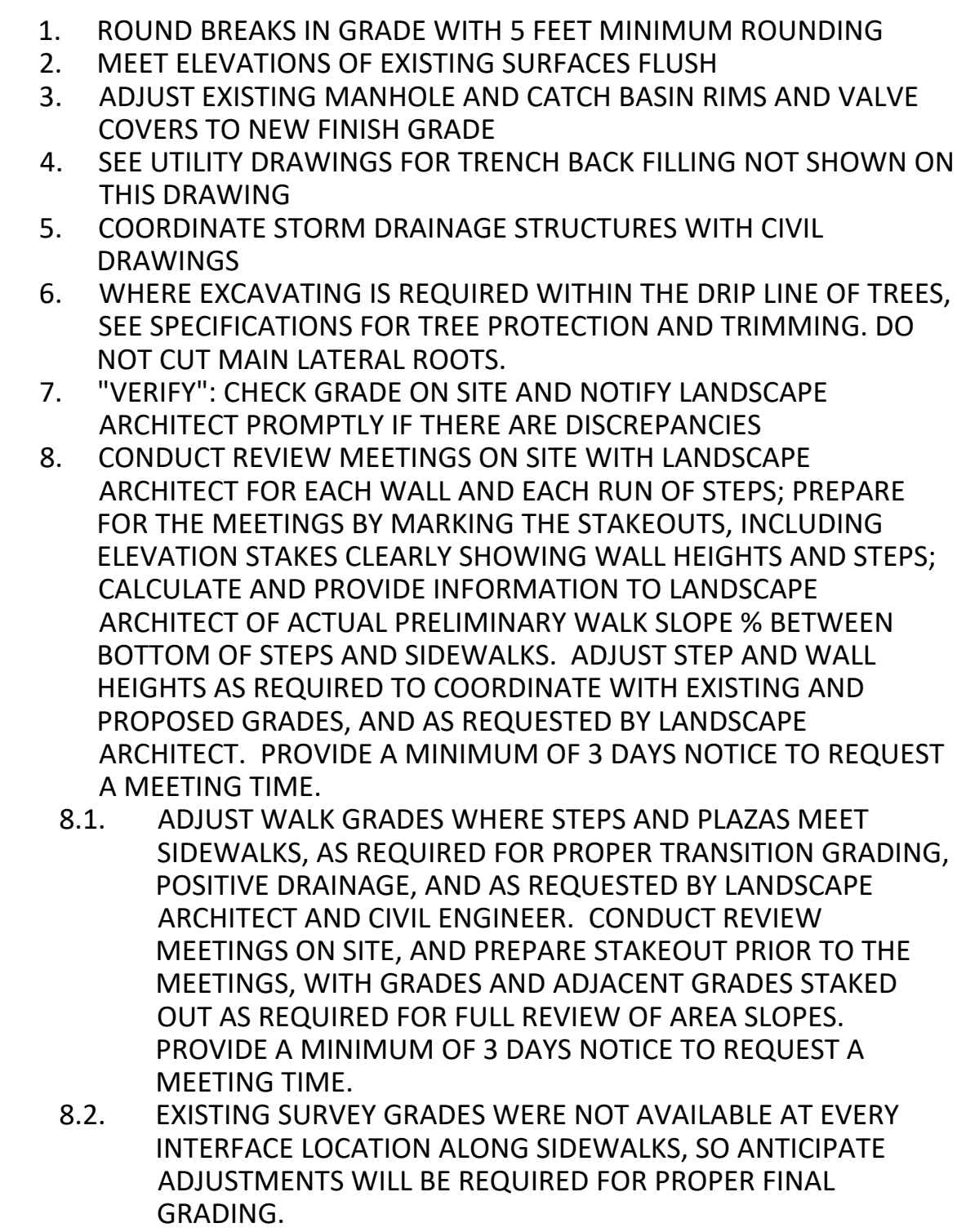
LAYOUT LEGEND

- +— CENTERLINE
—+— ALIGN

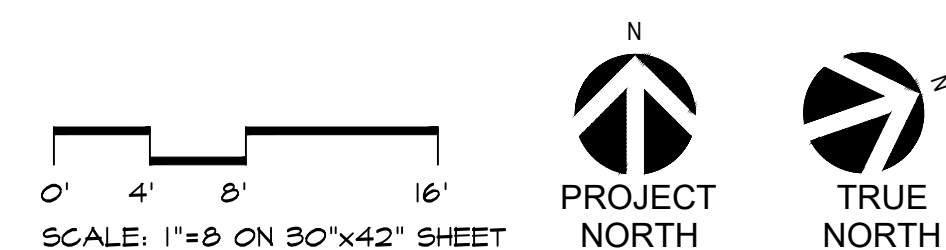
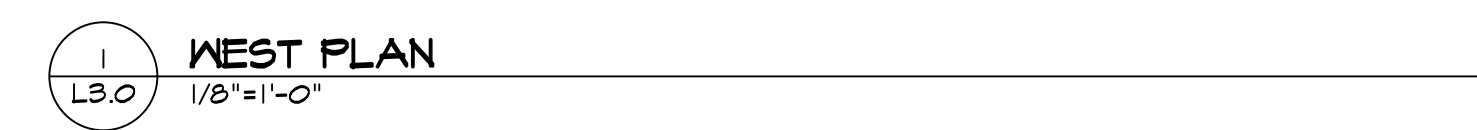
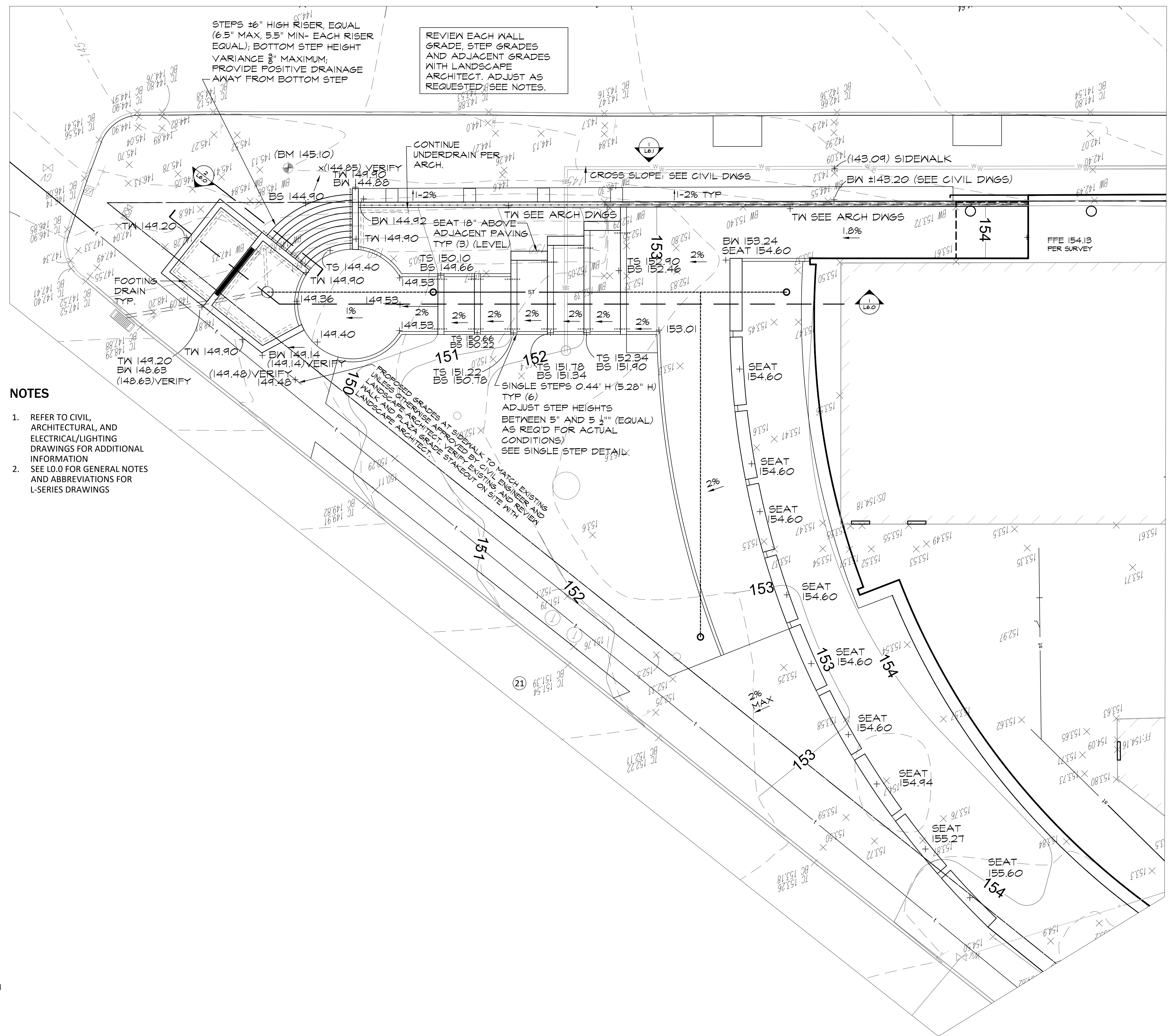
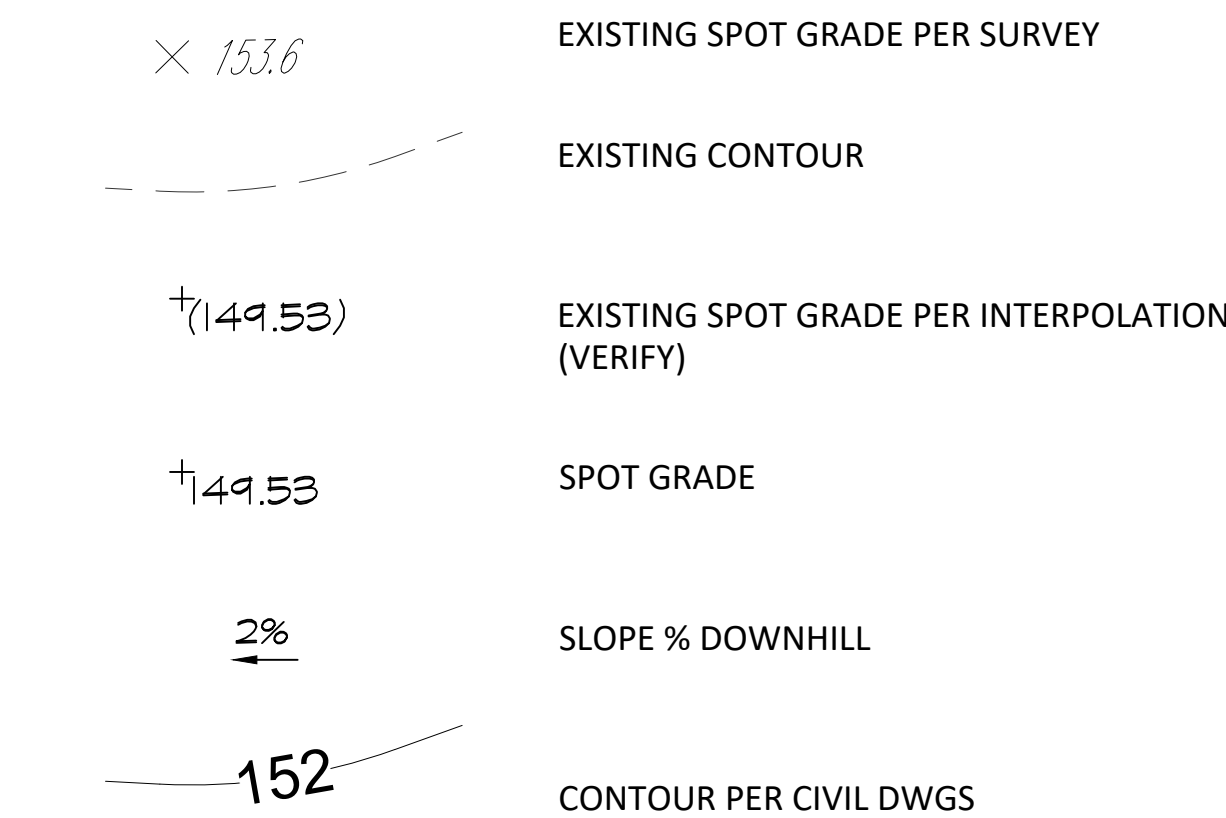
1 NORTH LAYOUT PLAN
1/8"=1'-0"

2 WEST LAYOUT PLAN
1/8"=1'-0"



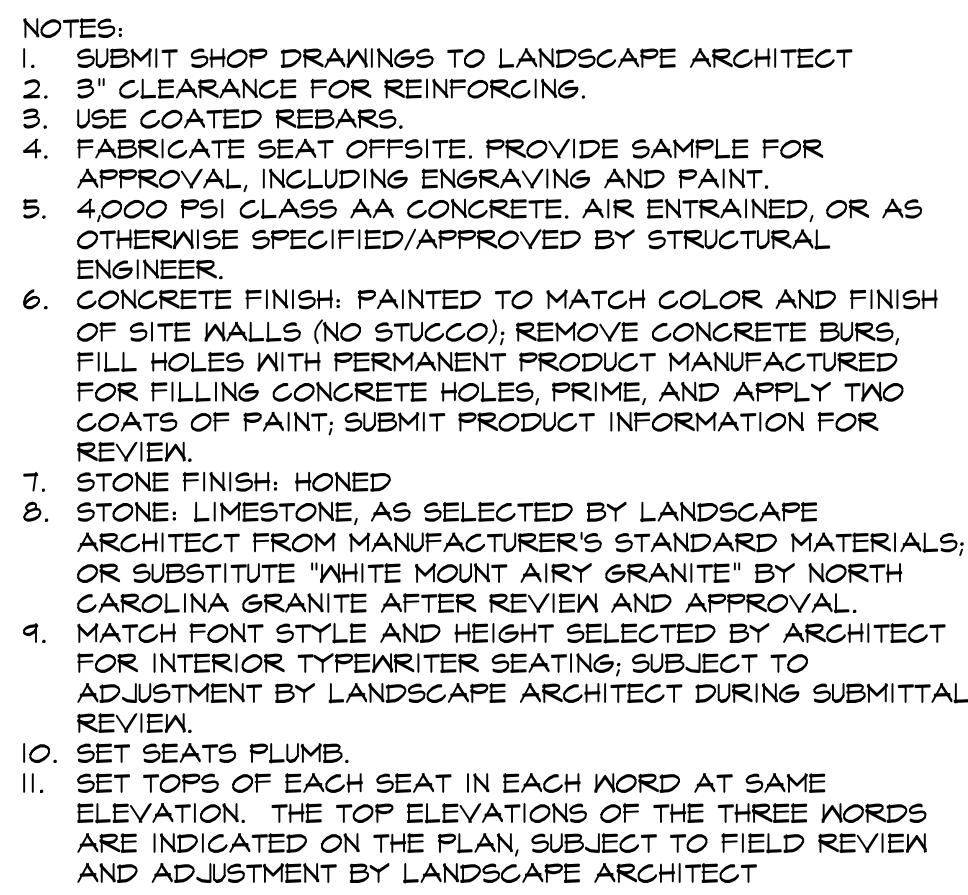


1. REFER TO CIVIL, ARCHITECTURAL, AND ELECTRICAL/LIGHTING DRAWINGS FOR ADDITIONAL INFORMATION
2. SEE L0.0 FOR GENERAL NOTES AND ABBREVIATIONS FOR L-SERIES DRAWINGS



CONSTRUCTION ISSUE DATE:	
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SCALE: AS NOTED	

Sheet Name: West Plaza Grading Plan		
NO.	DESCRIPTION	DATE
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SEAT 154.60

7 SEATS @ 154.60

ENTERTAIN

BOLLARD LIGHT

LETTERS ENRICH

6 SEATS @ 155.10

BOLLARD LIGHT

LETTERS ENTERTAIN

9 SEATS @ 155.60

REVIEW SEAT CAP ELEVATIONS WITH LANDSCAPE ARCHITECT FOR FINAL ELEVATIONS

ADD ALT. 22 TYPEWRITER KEY SEATS WITH ENGRAVED LETTERS: "EDUCATE, ENRICH, ENTERTAIN" IN LIEU OF 5 SEAT WALLS ON L2.0

4" DEEP MIN. RIVERSTONE BED AND 6" DEEP EDGING, SIMILAR TO DRIP STRIP DETAIL, 24" WIDTH

Typewriter Key Seating, including but not limited to seats, concrete subslab (footing), riverstone, edging, and 2 bollard lights, in lieu of 5 seat walls and 5 STP lights in base bid.

- KIMMEL BOGRETTE**
- A r c h i t e c t u r e + S i t e**
- 432 Norristown Rd., Suite 200
Blue Bell PA 19422
- Phone: 610.834.7805
Facsimile: 610.834.7810
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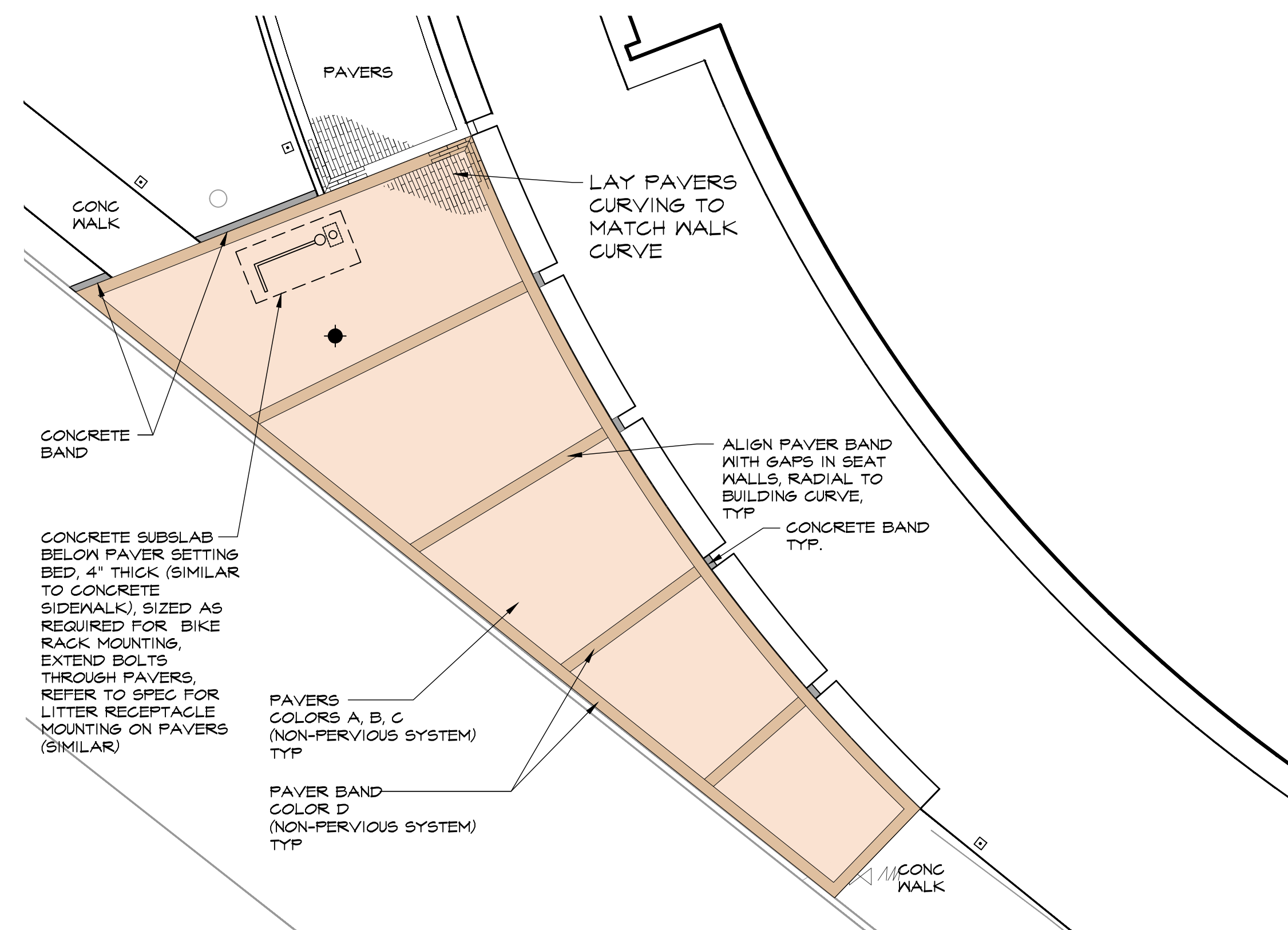


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CONSTRUCTION ISSUE DATE:	LK	JEN
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SCALE:	AS NOTED	

Sheet Name: Add Alt Seating & Plaza		
NO.	DESCRIPTION	DATE
	BID & PERMIT	10/3/2025

L4.0

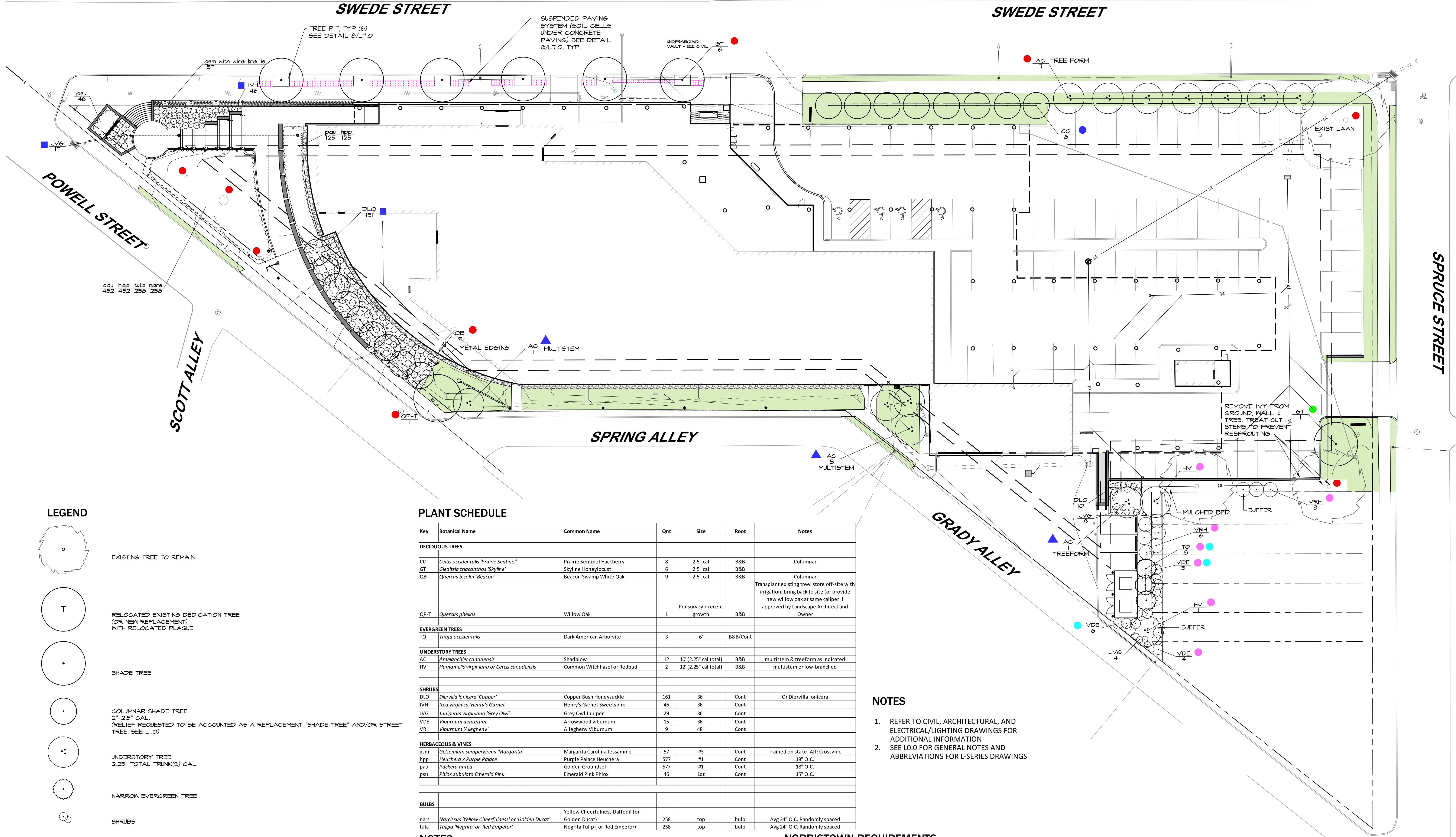


3
L4.0

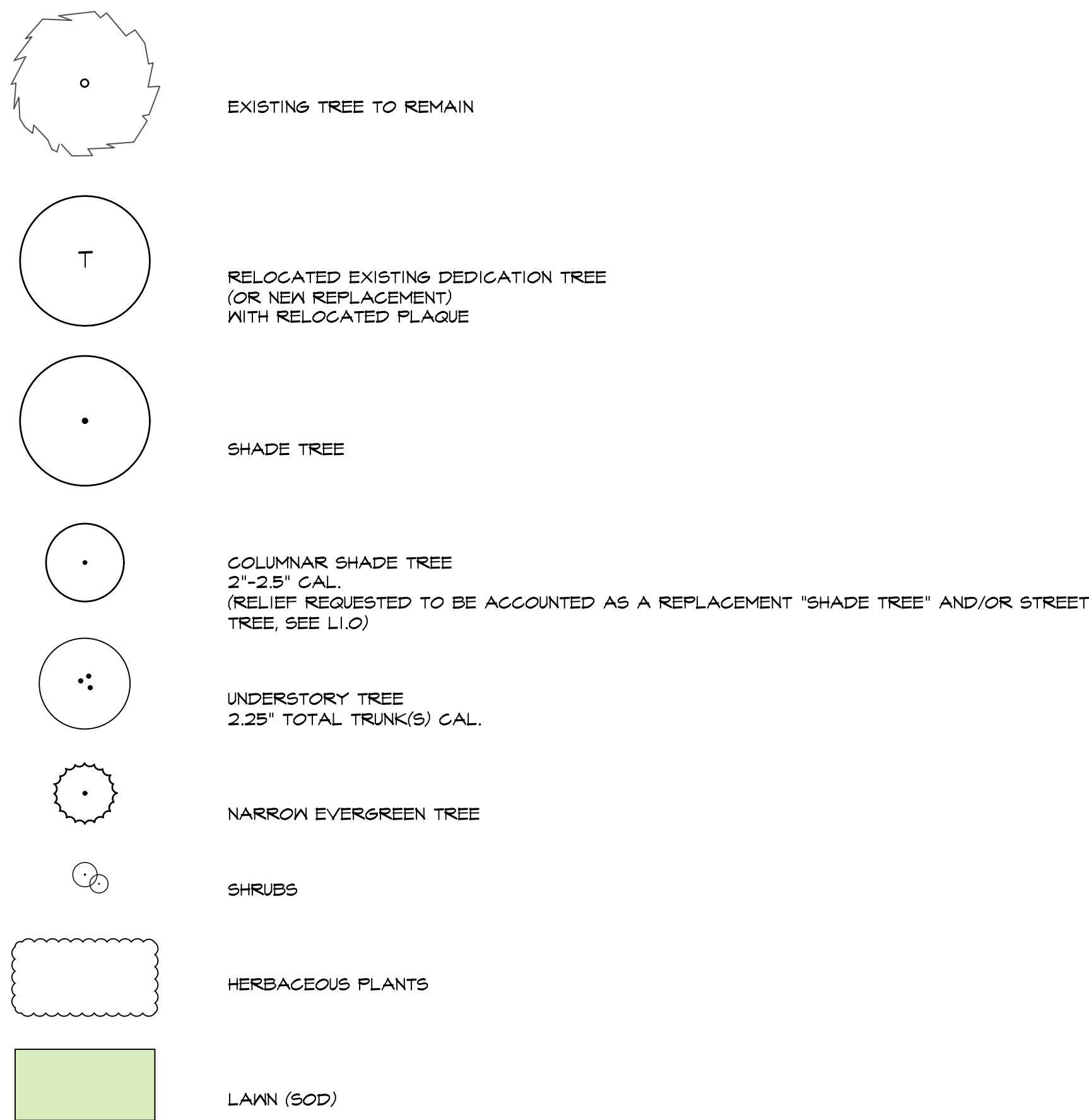
ADD ALT. SOUTH PLAZA PAVER PLAN

SCALE: 1"=8' WHEN PRINTED ON 30"x42" SHEET

South Plaza Pavers, including but not limited to pavers (in lieu of base bid concrete paving), concrete band additions, concrete subslab at bike rack, and extended mounting bolts at bike rack.



LEGEND



CODE COMPLIANCE SYMBOLS

- REPLACEMENT TREES
- STREET TREES
- BUFFER AREA
- DUMPSTER AREA BUFFER
- FACADE PLANTING - CANOPY TREES
- FACADE PLANTING - UNDERSTORY TREES
- FACADE PLANTING - SHRUBS

PLANT SCHEDULE

Key	Botanical Name	Common Name	Qty	Size	Root	Notes
DECIDUOUS TREES						
CO	Celtis occidentalis 'Prairie Sentinel'	Prairie Sentinel Hackberry	8	2.5" cal	B&B	Columnar
GT	Gleditsia triacanthos 'Skyline'	Skyline Honeylocust	6	2.5" cal	B&B	
QB	Quercus bicolor 'Beacon'	Beacon Swamp White Oak	9	2.5" cal	B&B	Columnar
QP-T	Quercus phellos	Willow Oak	1	Per survey + recent growth	B&B	Transplant existing tree: store off-site with irrigation, bring back to site (or provide new willow oak at same caliper if approved by Landscape Architect and Owner)
EVERGREEN TREES						
TO	Thuja occidentalis	Dark American Arborvitae	3	6'	B&B/Cont	
UNDERSTORY TREES						
AC	Amelanchier canadensis	Shadblow	12	10' (2.25" cal total)	B&B	multistem & treeform as indicated
HV	Hamamelis virginiana or Cercis canadensis	Common Witchhazel or Redbud	2	12' (2.25" cal total)	B&B	multistem or low-branched
SHRUBS						
DLO	Diervilla lonicera 'Copper'	Copper Bush Honeysuckle	161	36"	Cont	Or Diervilla lonicera
IVH	Itea virginica 'Henry's Garnet'	Henry's Garnet Sweetshrub	46	36"	Cont	
JVG	Juniperus virginiana 'Grey Owl'	Grey Owl Juniper	29	36"	Cont	
VDE	Viburnum dentatum	Arrowwood viburnum	15	36"	Cont	
VRH	Viburnum Allegheny	Allegheny Viburnum	9	48"	Cont	
HERBACEOUS & VINES						
gsm	Gelsemium sempervirens 'Margarita'	Margarita Carolina Jessamine	57	#3	Cont	Trained on stake. Alt: Crossvine
hpp	Heuchera x Purple Palace	Purple Palace Heuchera	577	#1	Cont	18" O.C.
pau	Pachira aurea	Golden Groundsel	577	#1	Cont	18" O.C.
psu	Phlox subulata Emerald Pink	Emerald Pink Phlox	46	1qt	Cont	15" O.C.
BULBS						
nars	Narcissus 'Yellow Cheerfulness' or 'Golden Ducat'	Yellow Cheerfulness Daffodil (or Golden Ducat)	258	top	bulb	Avg 24" O.C. Randomly spaced
tula	Tulipa 'Negrita' or 'Red Emperor'	Negrita Tulip (or Red Emperor)	258	top	bulb	Avg 24" O.C. Randomly spaced

NOTES

- SHREDDED BARK MULCH, 3" DEEP SETTLED DEPTH
- PLANTING SOIL 12" DEEP MIN (6" MIN AT LAWN-ONLY AREAS); AMEND EXISTING SOILS TO MAKE PLANTING SOIL, SUPPLEMENT WITH IMPORTED MANUFACTURED SOIL MIX TO MEET QUANTITIES REQUIRED; HOWEVER, DO NOT DISTURB EXISTING ROOTS AT TREES TO REMAIN, HOWEVER SEE NOTE 2
- AT TREE PITS AND SUSPENDED PAVING SYSTEM ALONG SWEDE STREET, SEE SUSPENDED PAVING SYSTEM DETAIL; USE MANUFACTURED IMPORTED PLANTING SOIL MIX, ENRICHED TOPSOIL, OR LVS PLANTING SOIL, CUSTOMIZED AS REQUIRED TO MEET PROJECT SPECIFICATIONS, AS PRODUCED BY LAUREL VALLEY SOILS, OR EQUAL.
- LAWN (SOD): PERIOD TYPE B TURFGRASS BLEND, OR APPROVED EQUAL
- PLANT WARRANTY: 12 MONTHS FROM SUBSTANTIAL PLANTING COMPLETION
- PLANT AND BED MAINTENANCE: MATCH WARRANTY PERIOD
- WATERING: WATERING AND PLANT CARE
- LAWN MAINTENANCE: 90 DAYS FROM INITIAL ACCEPTANCE
- WATERING, CUTTING, AND WEED MGT.
- LANDSCAPE ARCHITECT RESERVES THE RIGHT TO SELECT SUBSTITUTE SPECIES BASED ON AVAILABILITY AND FINAL DESIGN DECISIONS
- LANDSCAPE ARCHITECT RESERVES THE RIGHT TO ADJUST SIZES BASED ON AVAILABILITY (BALANCING TOTALS OF HEIGHTS AND CALIPERS TO MEET COMPLIANCE CHART TOTALS)
- PLANTS TO MEET AMERICAN STANDARD FOR NURSERY STOCK, ANSI Z60.1, 2014
- LANDSCAPE INSTALLER (SUBCONTRACTOR) IS RESPONSIBLE FOR THE TOPSOIL & PLANTING SOIL TESTING (BOTH FOR EXISTING AND IMPORTED), PLACEMENT, AND AMENDMENTS. VERIFY THAT DECOMPACTION IS COMPLETED PRIOR TO PLACING TOPSOIL.
- MANAGE/MAINTAIN ALL LANDSCAPE AREAS ON LIBRARY COUNTY PROPERTY, TO THE CURB LINES, DURING CONSTRUCTION AND DURING MAINTENANCE PERIOD
- STAKEOUT TREES AND LAY OUT SHRUBS & HERBACEOUS AREAS, FOR REVIEW BY LANDSCAPE ARCHITECT PRIOR TO PLANTING. ADJUST PER LANDSCAPE ARCHITECT UNLESS THERE ARE UTILITY CONFLICTS.

SOIL RESPONSIBILITY:

- THE LANDSCAPE INSTALLER DOES THE LAWN AND PLANTING SHALL BE RESPONSIBLE FOR THE SOIL TESTING FOR EACH SOIL SOURCE INCLUDING EXISTING SOIL, AND IMPORTED SOIL FOR LAWN AND PLANTINGS.
- LANDSCAPE INSTALLER SHALL OBTAIN TESTING LAB'S AMENDMENT RECOMMENDATIONS FOR (a) LAWN AND (b) NATIVE PLANTS -- FOR EACH APPLICABLE SOIL SOURCE
- LANDSCAPE INSTALLER SHALL FURNISH AND INSTALL THE AMENDMENTS.
- LANDSCAPE INSTALLER SHALL FURNISH AND INSTALL THE IMPORTED PLANTING SOIL MIX(ES).
- SEE SPECS AND PLANTING PLAN NOTES FOR ADDITIONAL REQUIREMENTS.

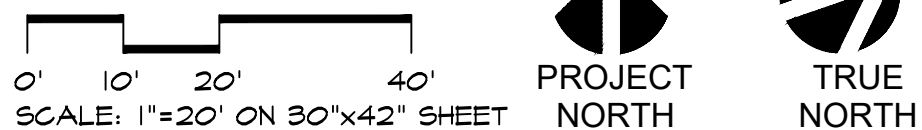
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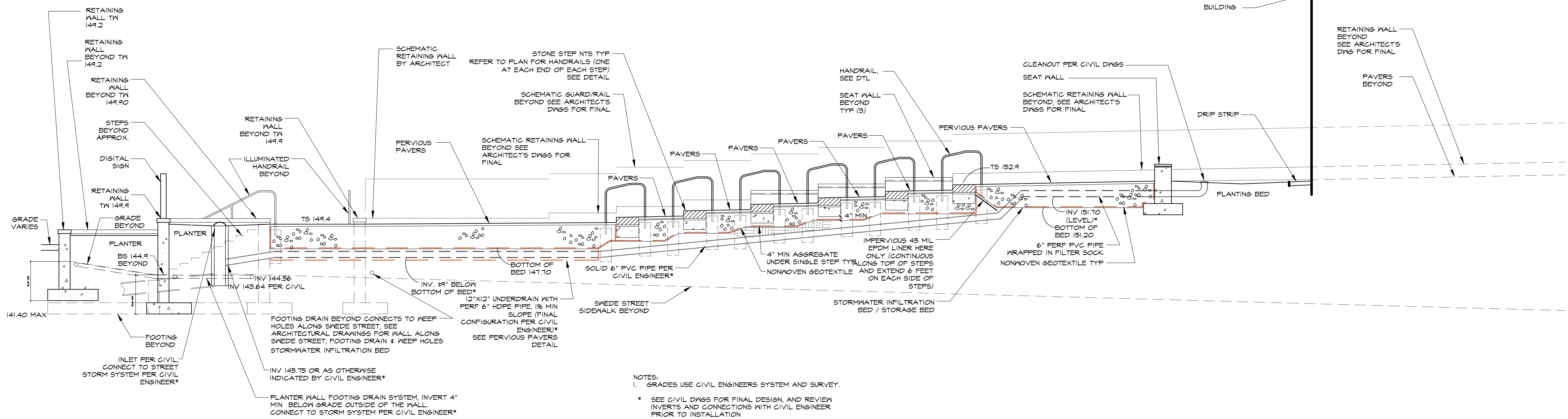
- REFER TO CIVIL, ARCHITECTURAL, AND ELECTRICAL/LIGHTING DRAWINGS FOR ADDITIONAL INFORMATION
- SEE L1.0 FOR GENERAL NOTES AND ABBREVIATIONS FOR L-SERIES DRAWINGS

NORRISTOWN REQUIREMENTS

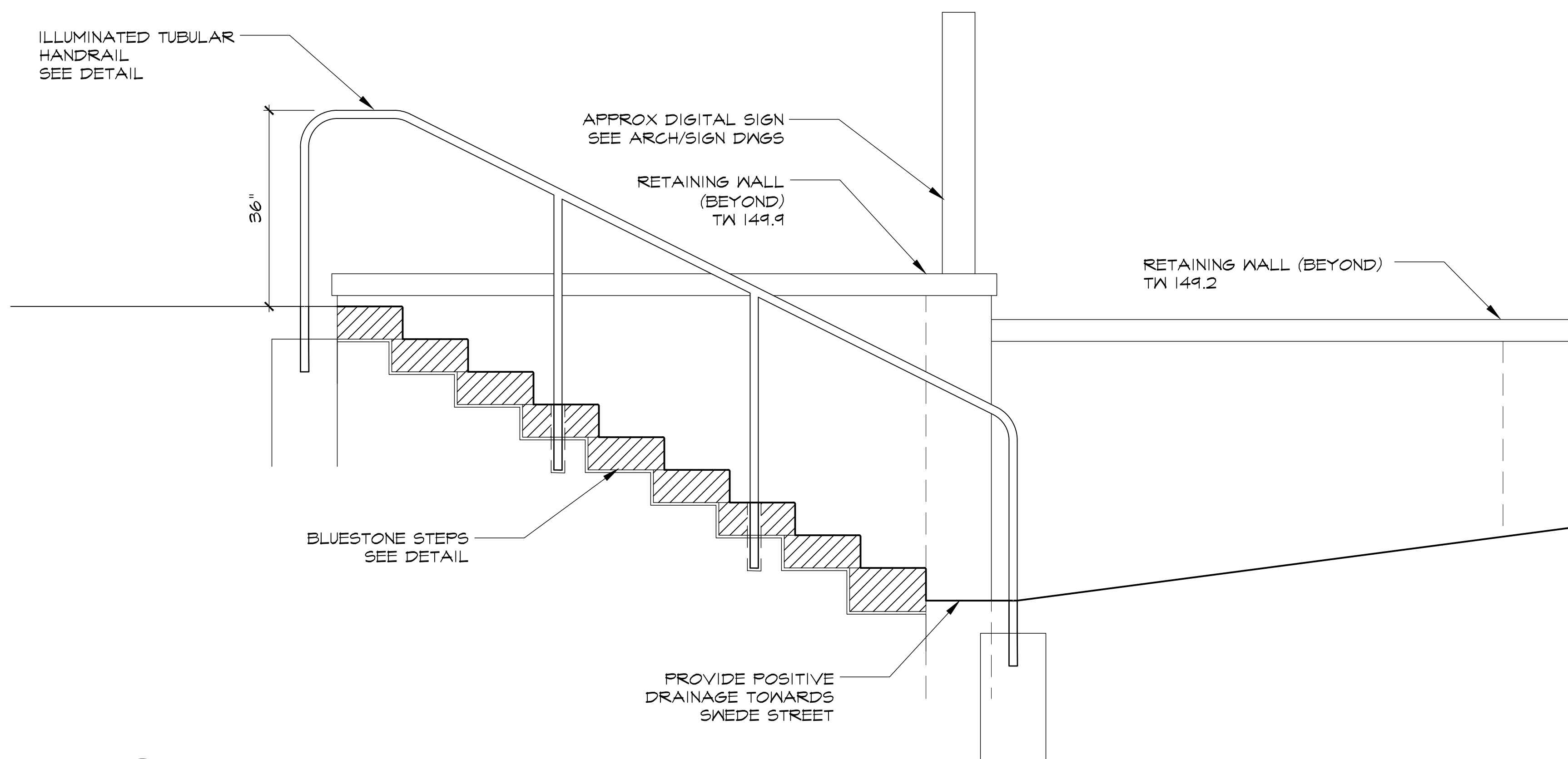
FOLLOW THESE REQUIREMENTS UNLESS STRICTER REQUIREMENTS ARE INDICATED IN CONSTRUCTION DOCUMENTS

- THE LOCATION, DIMENSIONS, AND SPACING OF REQUIRED PLANTINGS SHOULD BE ADEQUATE FOR THEIR PROPER GROWTH AND MAINTENANCE, TAKING INTO ACCOUNT THE SIZES OF SUCH PLANTINGS AT MATURITY AND THEIR PRESENT AND FUTURE ENVIRONMENTAL REQUIREMENTS AND TOLERANCES INCLUDING WIND, MOISTURE AND SUNLIGHT.
- PLANTINGS SHOULD BE SELECTED AND LOCATED WHERE THEY WILL NOT CONTRIBUTE TO CONDITIONS HAZARDOUS TO PUBLIC SAFETY. SUCH CONDITIONS INCLUDE, BUT ARE NOT LIMITED TO, PUBLIC STREET RIGHTS-OF-WAY, UNDERGROUND AND ABOVEGROUND UTILITIES, AND SIGHT TRIANGLE AREAS REQUIRED FOR UNOBSTRUCTED VIEWS AT STREET INTERSECTIONS.
- ALL PLANTS SHALL MEET THE MINIMUM STANDARDS FOR HEALTH, FORM AND ROOT CONDITION AS OUTLINED IN THE AMERICAN ASSOCIATION OF NURSERYMEN AAN STANDARDS.
- ALL PLANT MATERIAL SHALL BE HARDY AND WITHIN THE USDA HARDINESS ZONE 6 APPLICABLE TO MONTGOMERY COUNTY, PENNSYLVANIA.
- CANOPY TREES, SOMETIMES CALLED "SHADE TREES," SHALL REACH A MINIMUM HEIGHT AND SPREAD OF 30 FEET AT MATURITY, AS DETERMINED BY THE AAN STANDARDS, AND SHALL BE DECIDUOUS. NEW TREES SHALL HAVE A MINIMUM CALIPER OF 2 1/2 INCHES AT PLANTING, EXCEPT FOR THE REQUESTED WAIVER FOR USING COLUMNAR TREES.
- ORNAMENTAL TREES OR LARGE SHRUBS SHALL REACH A TYPICAL MINIMUM HEIGHT OF 15 FEET AT MATURITY, BASED UPON AAN STANDARDS. TREES AND SHRUBS MAY BE DECIDUOUS OR EVERGREEN AND SHALL HAVE A DISTINCTIVE ORNAMENTAL CHARACTERISTIC, SUCH AS PROMINENT FLOWERS, FRUIT, HABITAT, FOLIAGE OR BARK. NEW ORNAMENTAL TREES SHALL HAVE A MINIMUM HEIGHT OF SIX FEET OR 1 1/2 INCHES' CALIPER AT THE TIME OF PLANTING. NEW SHRUBS SHALL HAVE A MINIMUM HEIGHT OF THREE FEET AT THE TIME OF PLANTING.
- EVERGREEN TREES SHALL REACH A TYPICAL MINIMUM HEIGHT OF 20 FEET AT MATURITY, BASED UPON AAN STANDARDS FOR THAT SPECIES, AND SHALL REMAIN EVERGREEN THROUGHOUT THE YEAR. NEW EVERGREENS SHALL HAVE A MINIMUM HEIGHT OF EIGHT FEET AT THE TIME OF PLANTING.
- REQUIRED PLANT MATERIAL SHALL BE MAINTAINED FOR THE LIFE OF THE PROJECT TO ACHIEVE THE REQUIRED VISUAL EFFECT OF THE BUFFER OR SCREEN; IT SHALL BE THE ULTIMATE RESPONSIBILITY OF SUCCESSIVE LANDOWNERS TO ENSURE THAT THE REQUIRED PLANTINGS ARE PROPERLY MAINTAINED. DEAD OR DISEASED PLANT MATERIALS SHALL BE REMOVED OR TREATED PROPERLY BY THE LANDOWNER AND REPLACED DURING THE NEXT GROWING SEASON.
- ALL SIGHT DISTANCES SHALL REMAIN CLEAR, AND ANY PLANT MATERIALS THAT COULD ENDANGER SAFETY, SUCH AS UNSTABLE LIMBS, SHALL BE REMOVED, AND THE PLANT MATERIALS SHALL BE REPLACED IF NECESSARY. IT SHALL BE THE RESPONSIBILITY OF ALL PROPERTY OWNERS TO MAINTAIN ALL PLANTINGS AND ARCHITECTURAL ELEMENTS TO ENSURE A SAFE ENVIRONMENT.
- MAINTENANCE GUIDELINES FOR THE PLANTINGS SHOULD BE DEVELOPED BY THE PLANTING PLAN DESIGNER, TO BE USED BY GROUNDS MAINTENANCE PERSONNEL.
- THE CURRENT LANDOWNER OR DEVELOPER SHALL REPLACE ANY TREE OR SHRUB THAT DIES WITHIN 18 MONTHS OF PLANTING. ANY TREE OR SHRUB THAT, WITHIN 18 MONTHS OF PLANTING, IS DEEMED, IN THE OPINION OF NORRISTOWN, NOT TO HAVE SURVIVED OR NOT TO HAVE GROWN IN A MANNER CHARACTERISTIC OF ITS SPECIES SHALL BE REPLACED. SUBSTITUTIONS FOR CERTAIN SPECIES OF PLANTS MAY BE MADE WITH THE APPROVAL OF THE MUNICIPALITY.

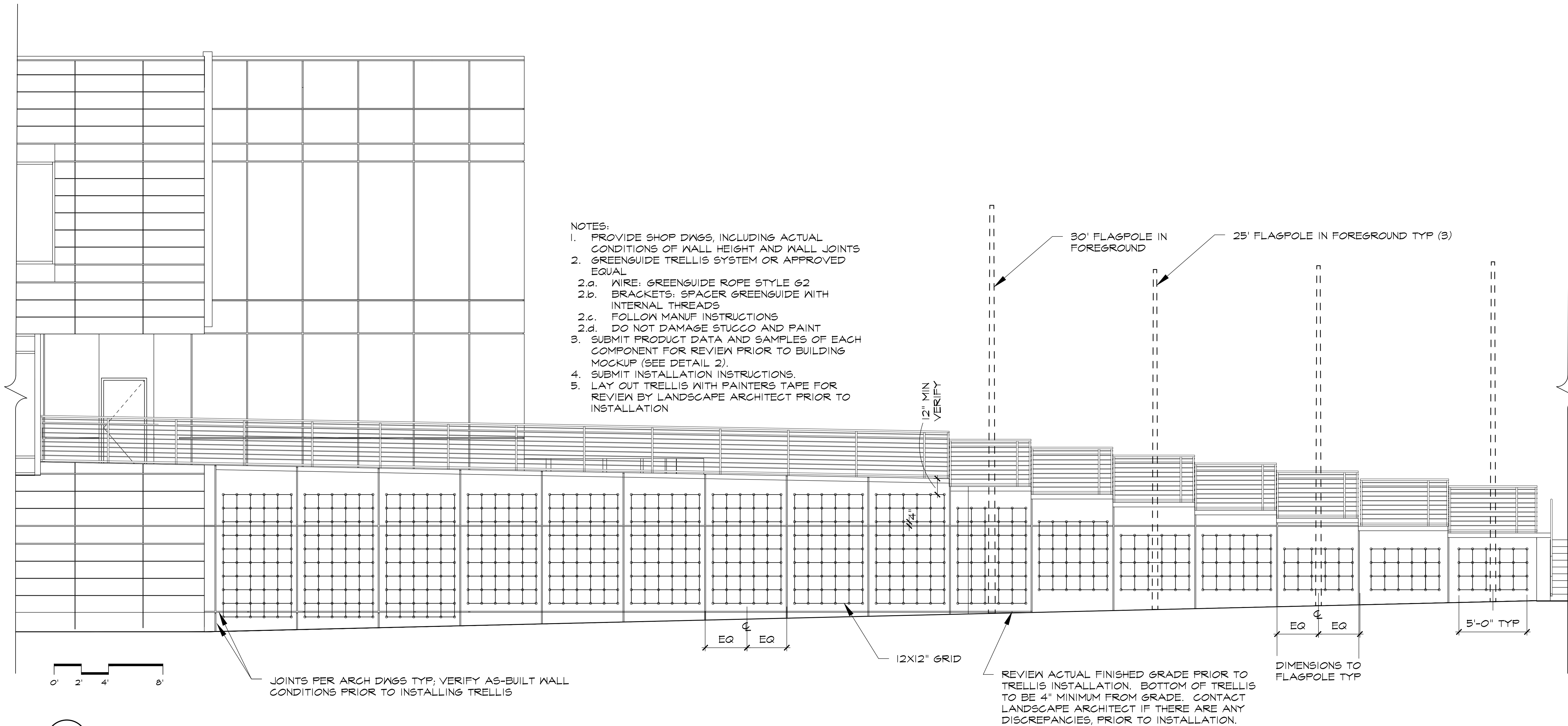




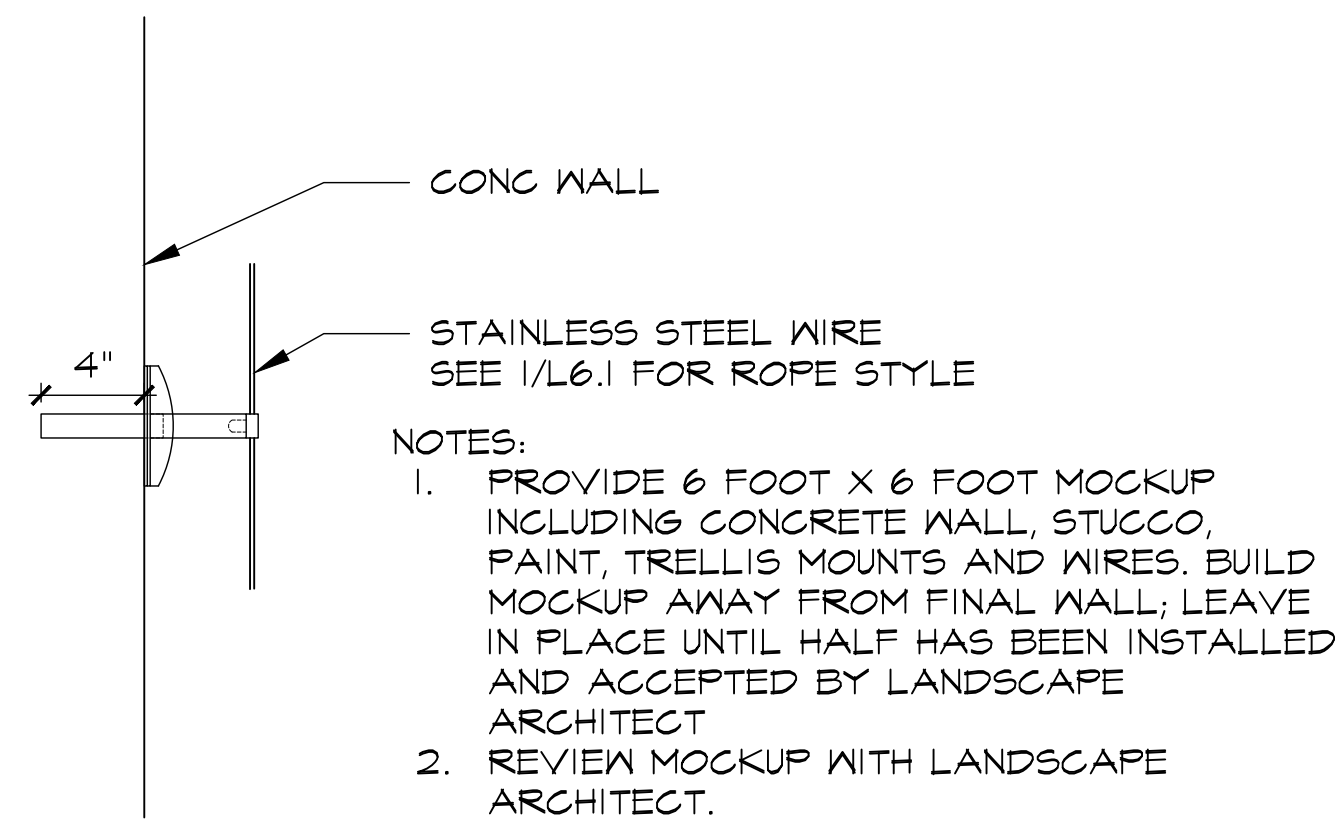
1
L6.0
SECTION/ELEVATION 1
SCALE: 1/4"=1'-0"



2
L6.0
SECTION/ELEVATION 2
3/4"=1'-0"

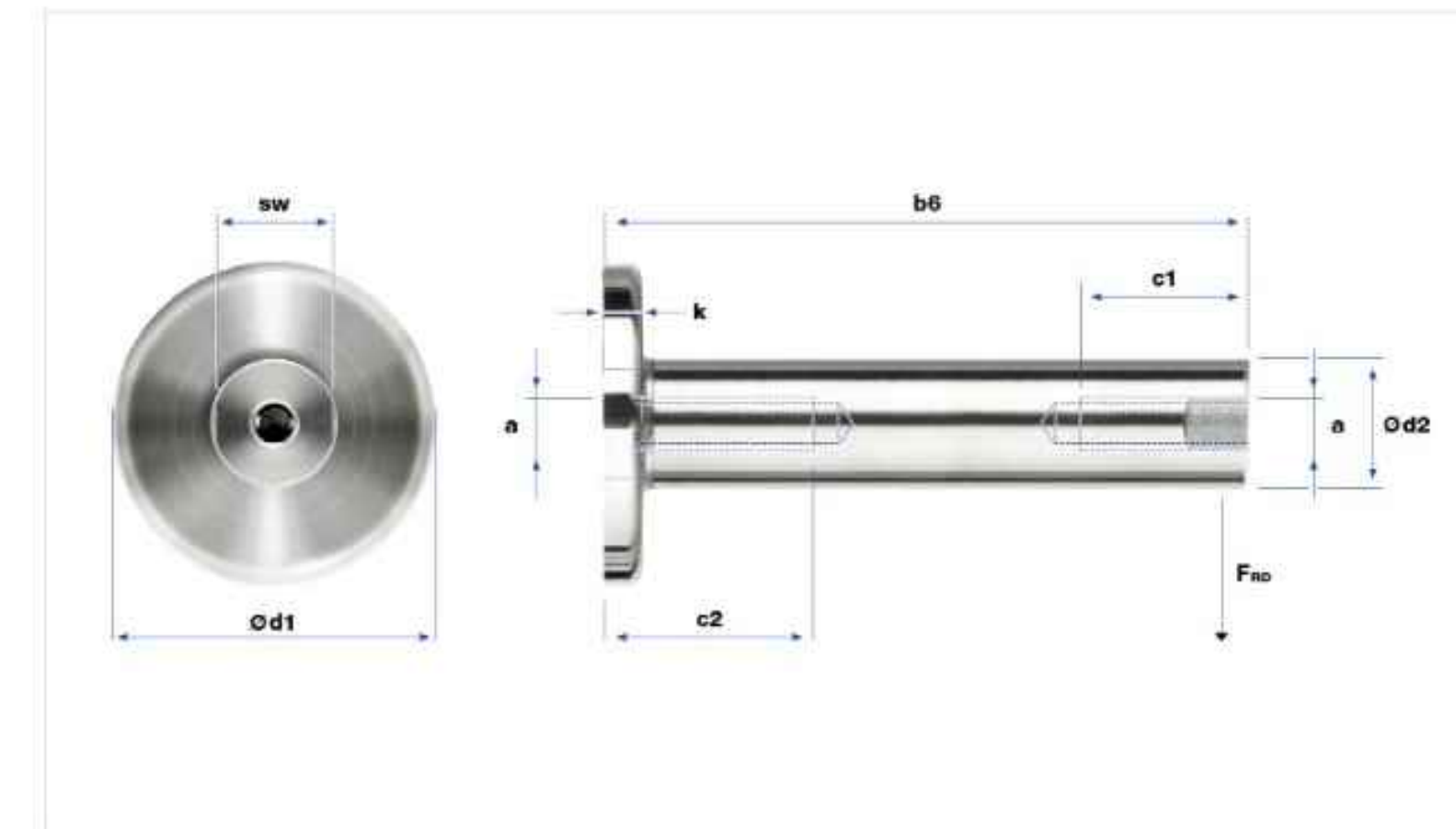


1
L6.1
TRELLIS ELEVATION
1/4" = 1'-0"



2
L6.1
TRELLIS MOUNT TO CONCRETE WALL
1-1/2" = 1'-0"

Spacer GreenGuide with internal thread

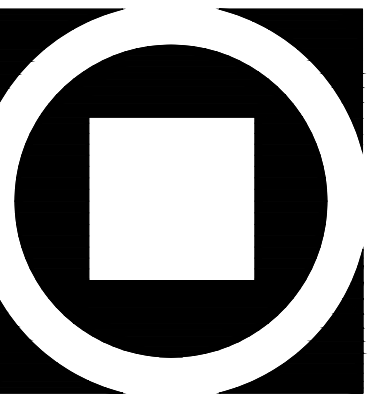


No.	a	b6	c1	c2	k	ø d1	ø d2	sw	kg
30919-0100-00	M8	100	24	29	6	50	20	18	0.2890

Further informations

Surface: ground, grain 320
Weight: 0.2890 kg
Material group: material group AISI 316L/1.4404

3
L6.1
TRELLIS BRACKET DETAIL
NTS METRIC DIMENSIONS



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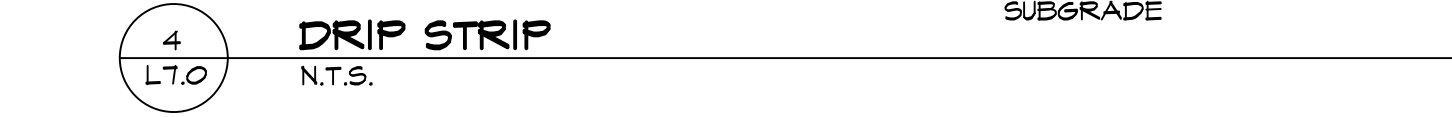
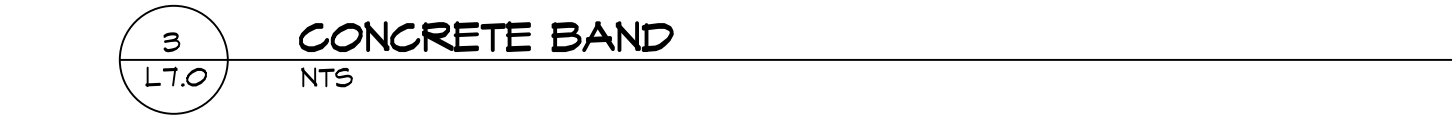
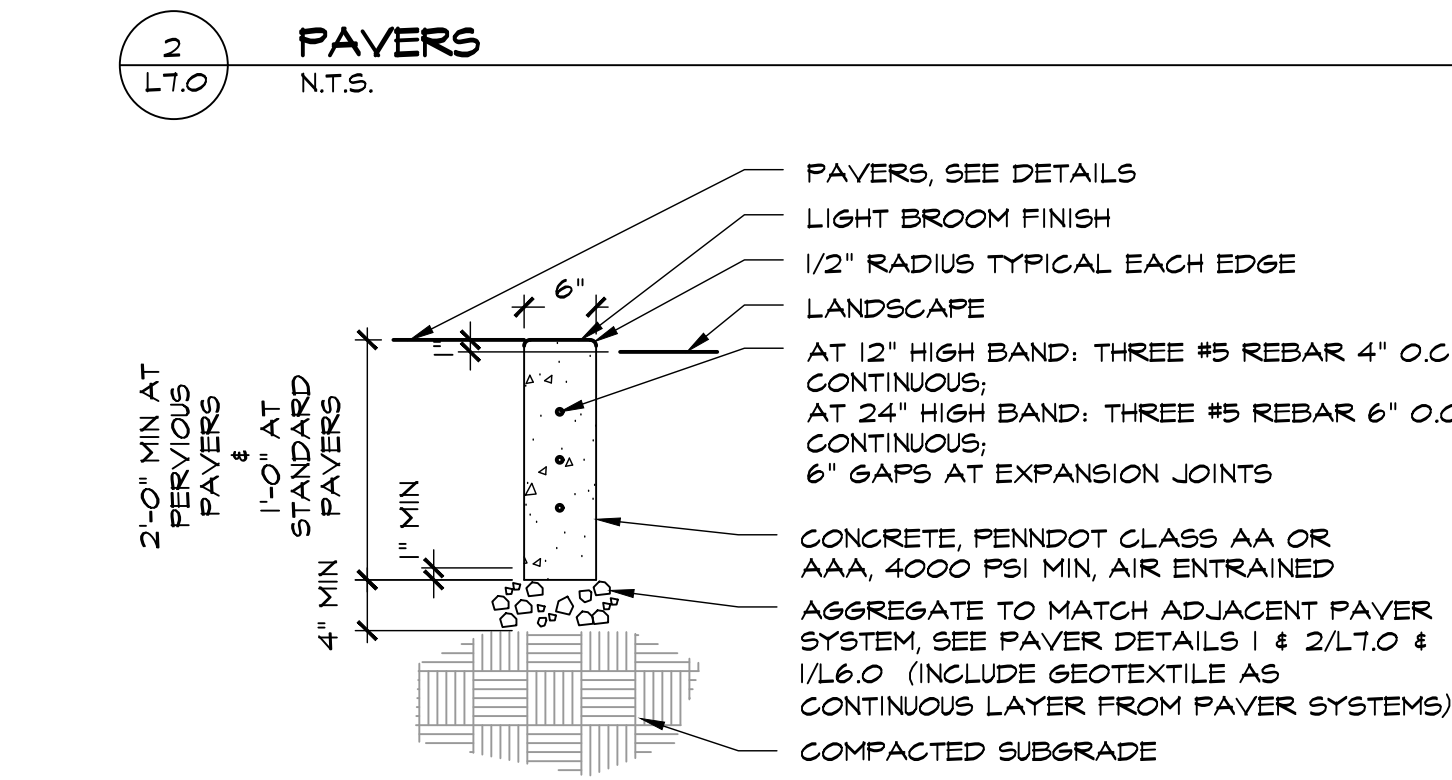
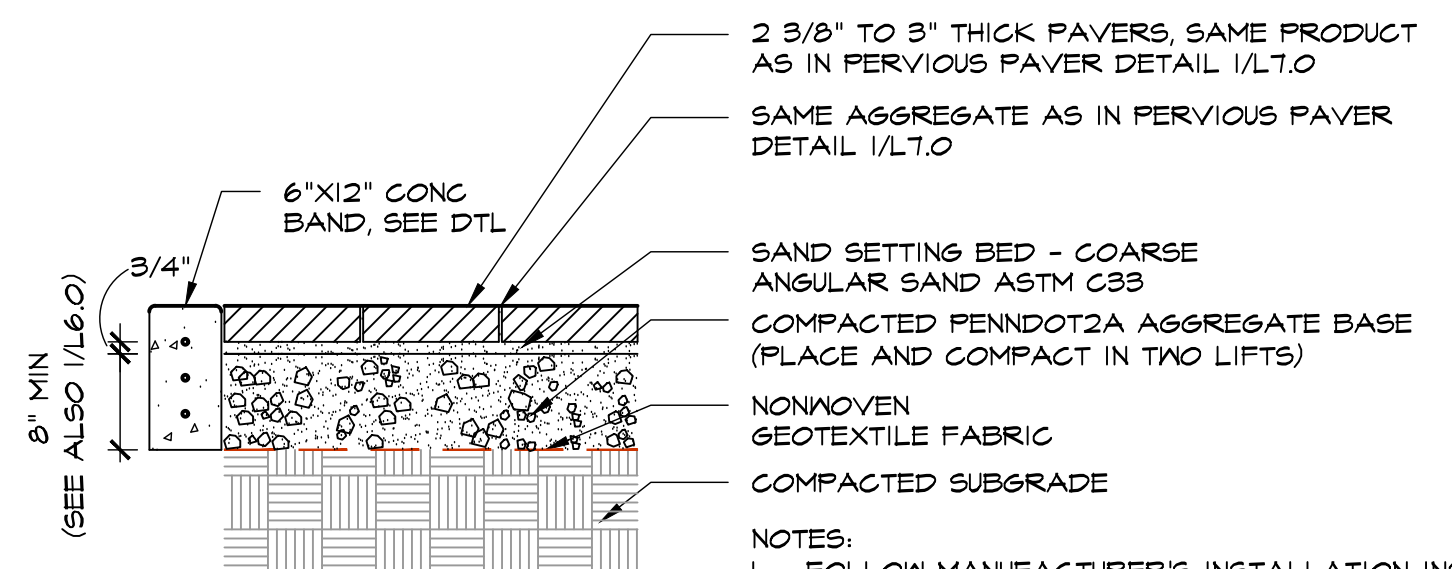
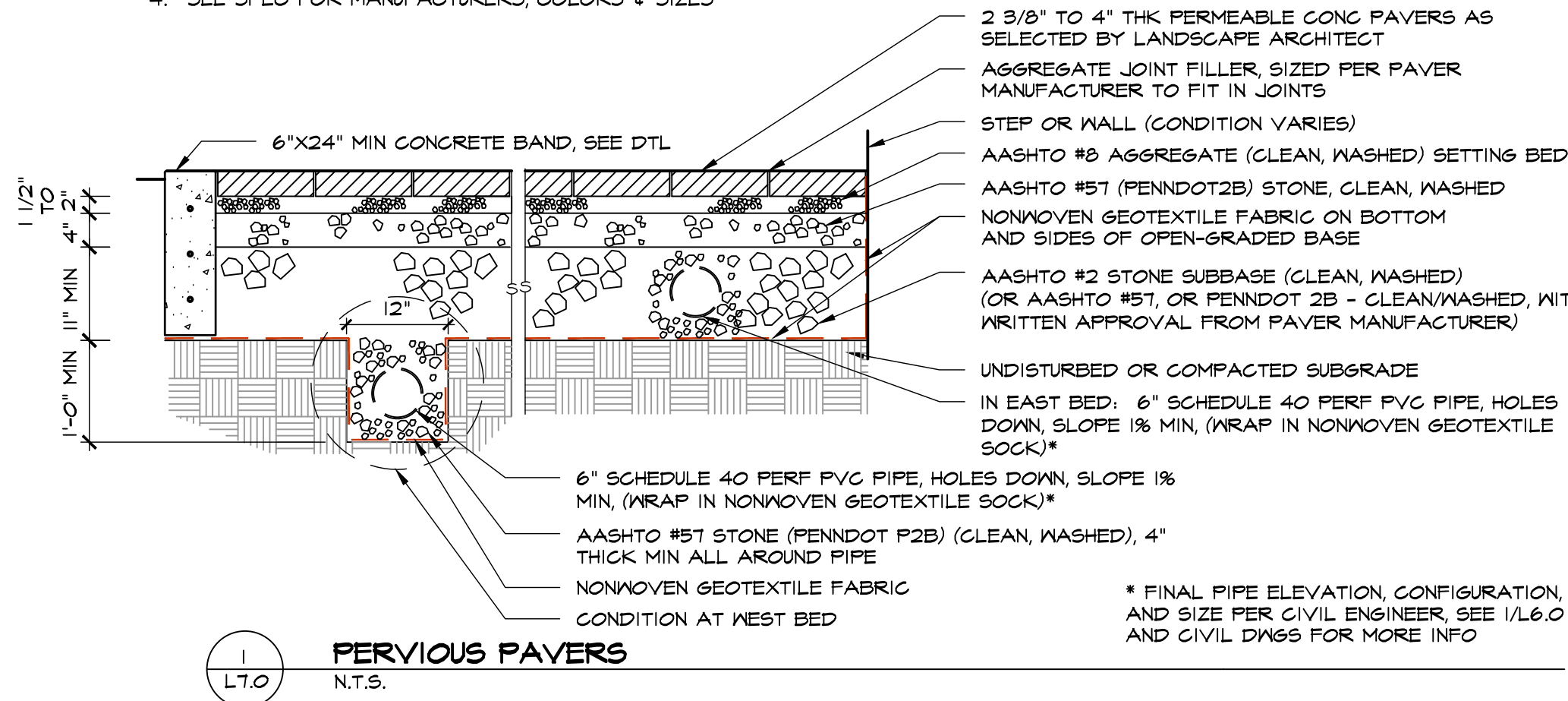
CONSTRUCTION ISSUE DATE:	DRAWN BY: LVCS/JEN	CHECKED BY: PJ	SCALE AS NOTED

Sheet Name: Sections	DATE	
NO.	DESCRIPTION	
	BID & PERMIT	

L6.1

NOTES:

1. COMPACT #57 STONE AND #2 STONE IN MAX 6" LIFTS WITH MULTIPLE PASSES OF COMPACTION EQUIPMENT UNTIL STABLE AND STONE FACETS BECOME LOCKED AND LINED.
2. FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS. (OBTAIN LANDSCAPE ARCHITECT'S REVIEW FOR ANY POTENTIAL VARIANCE FROM THIS DETAIL.)
3. INSTALLATION CONTRACTOR SHALL RETURN TO THE SITE AFTER SIX MONTHS FROM COMPLETION OF THE WORK AND PROVIDE THE FOLLOWING AS REQUIRED: FILL PAVEMENT JOINTS WITH JOINT FILLER, REPLACE BROKEN OR CRACKED PAVERS, AND RE-LEVEL SETTLED PAVERS TO INITIAL ELEVATIONS.
4. SEE SPEC FOR MANUFACTURERS, COLORS & SIZES.



GENERAL NOTES FOR L-SERIES DETAILS

1. CLASS AA OR AAA CONCRETE, 4000 PSI MIN, AIR ENTRAINED, UNLESS HIGHER QUALITY OR HIGHER PSI IS OTHERWISE INDICATED.
2. PLACE PENNDOT 2A AGGREGATE BASE IN LIFTS NOT EXCEEDING SIX INCHES THICKNESS, AND COMPACT TO A MINIMUM OF 95% OF MAXIMUM DRY DENSITY PER ASTM D648, STANDARD PROCTOR, UNLESS HIGHER OR STRICTER COMPACTION IS OTHERWISE INDICATED. OBTAIN INSPECTION AND APPROVAL OF EACH COMPACTED LIFT BY OWNER'S INSPECTOR (AND BY GEOTECHNICAL ENGINEER IF REQUIRED BY PROJECT) PRIOR TO PROCEEDING WITH PLACING MATERIAL ABOVE THE AGGREGATE.
3. PLACE OPEN-GRADED AGGREGATES SUCH AS PENNDOT 2B, AASHTO #57 AND AASHTO #2 AGGREGATES IN LIFTS NOT EXCEEDING SIX INCHES THICKNESS AND COMPACT USING MULTIPLE PASSES OF A VIBRATORY PLATE COMPACTOR OR ROLLER UNTIL INTERLOCK IS ACHIEVED AND NO FURTHER MOVEMENT OCCURS (UNLESS STRICTER REQUIREMENTS ARE OTHERWISE INDICATED). OBTAIN INSPECTION AND APPROVAL OF EACH COMPACTED LIFT BY OWNER'S INSPECTOR (OWNER'S GEOTECHNICAL ENGINEER) PRIOR TO PROCEEDING WITH PLACING MATERIAL ABOVE EACH LIFT.
4. COMPACT SUBGRADE UNDER PAVERS AND PAVING TO 45% OF MAXIMUM DRY DENSITY PER ASTM D648, STANDARD PROCTOR, AT MOISTURE CONTENT WITHIN 12% OF OPTIMUM, UNLESS HIGHER OR STRICTER COMPACTION IS OTHERWISE INDICATED. OBTAIN INSPECTION AND APPROVAL OF EACH COMPACTED LIFT BY OWNER'S INSPECTOR (OWNER'S GEOTECHNICAL ENGINEER) PRIOR TO PROCEEDING WITH PLACING MATERIAL ABOVE EACH SUBGRADE LIFT.

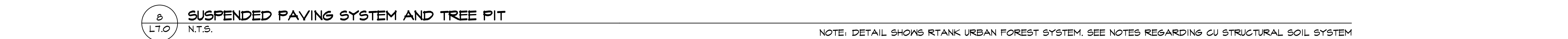
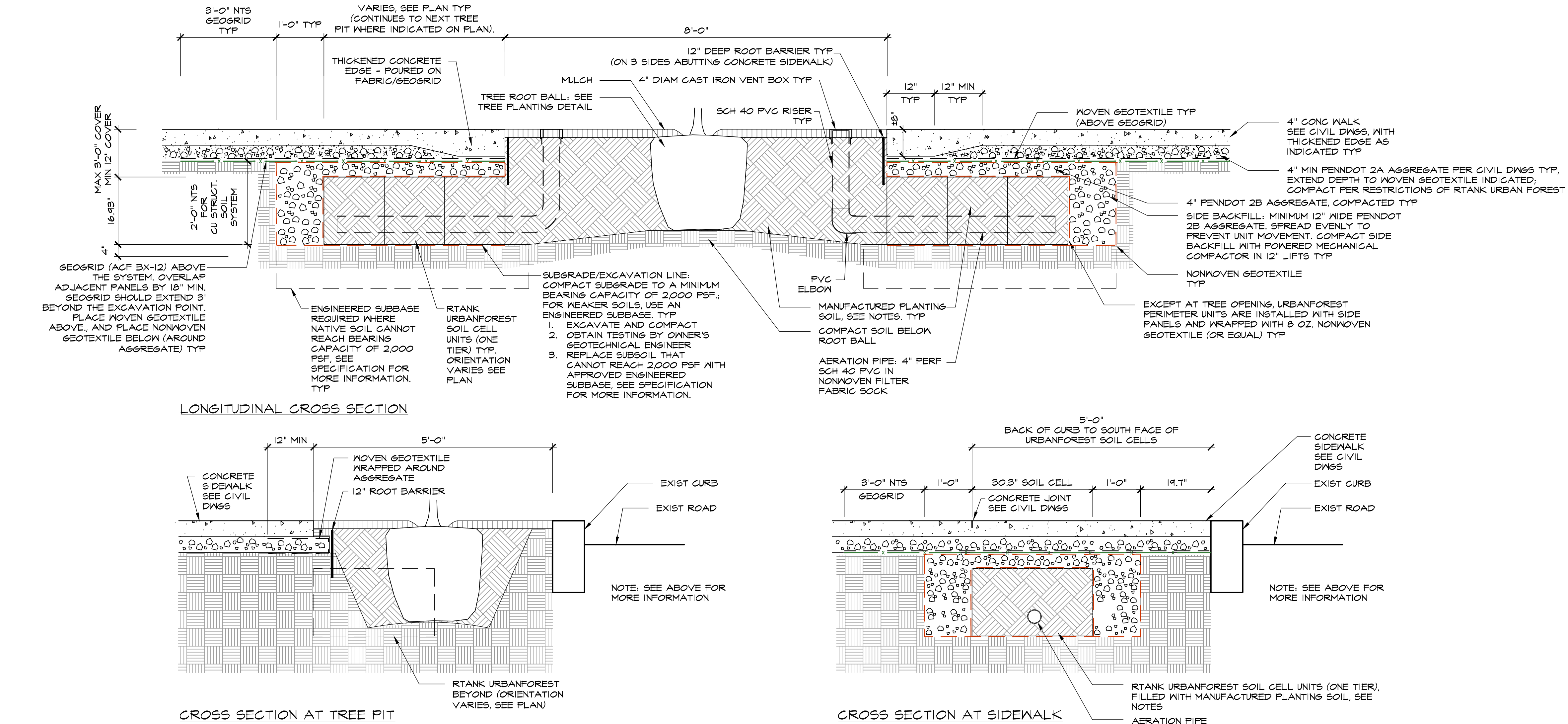
SUSPENDED PAVING SYSTEM NOTES:

Provide RTank UrbanForest Cells as the basis of design for suspended paving system.

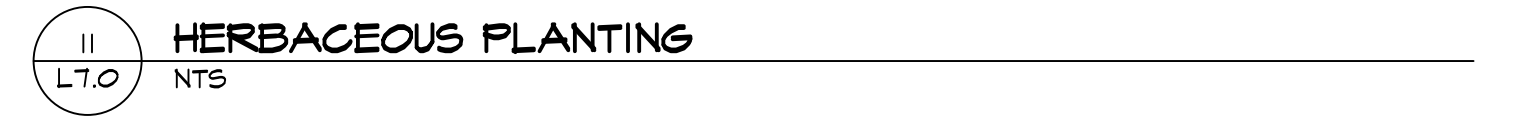
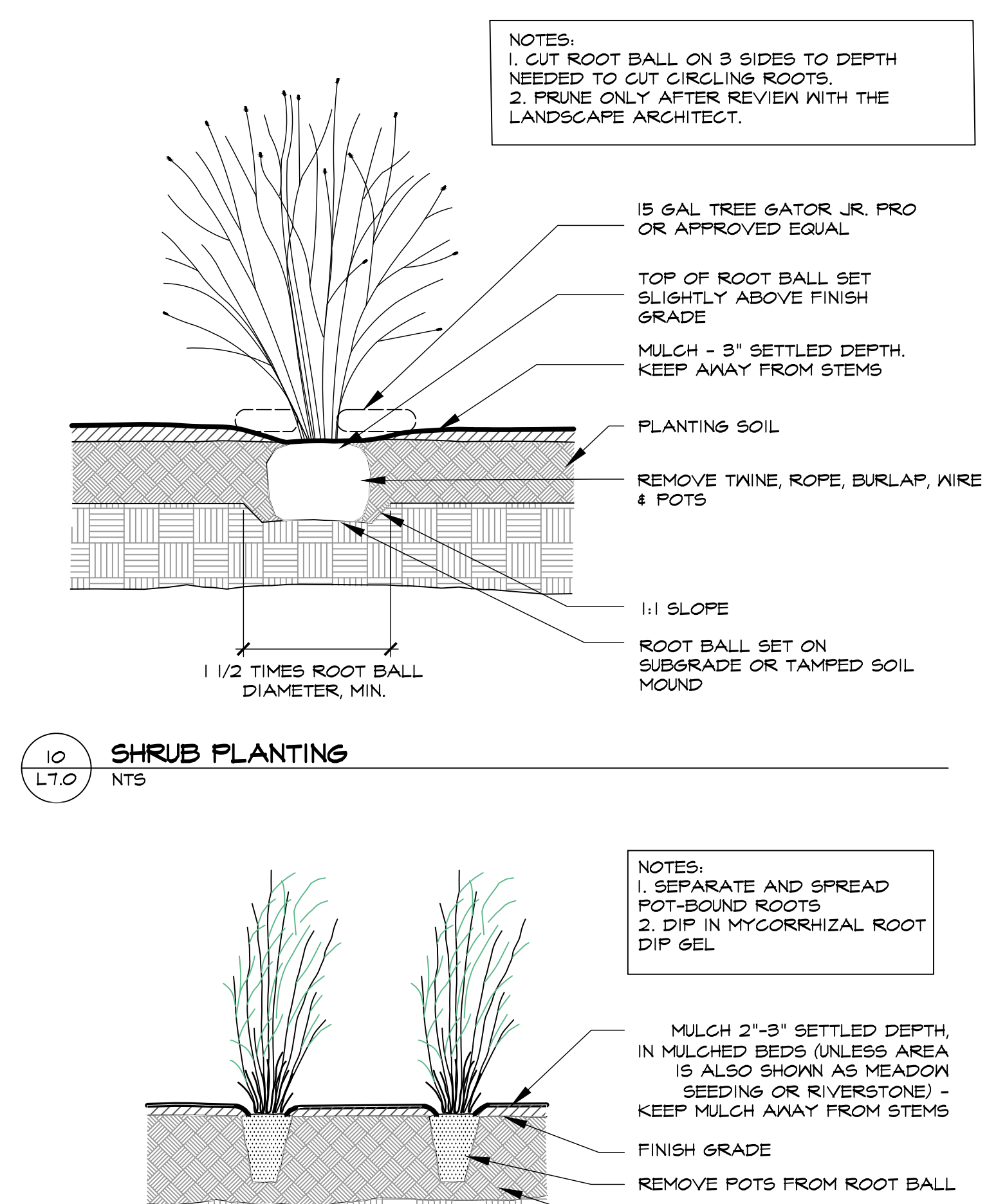
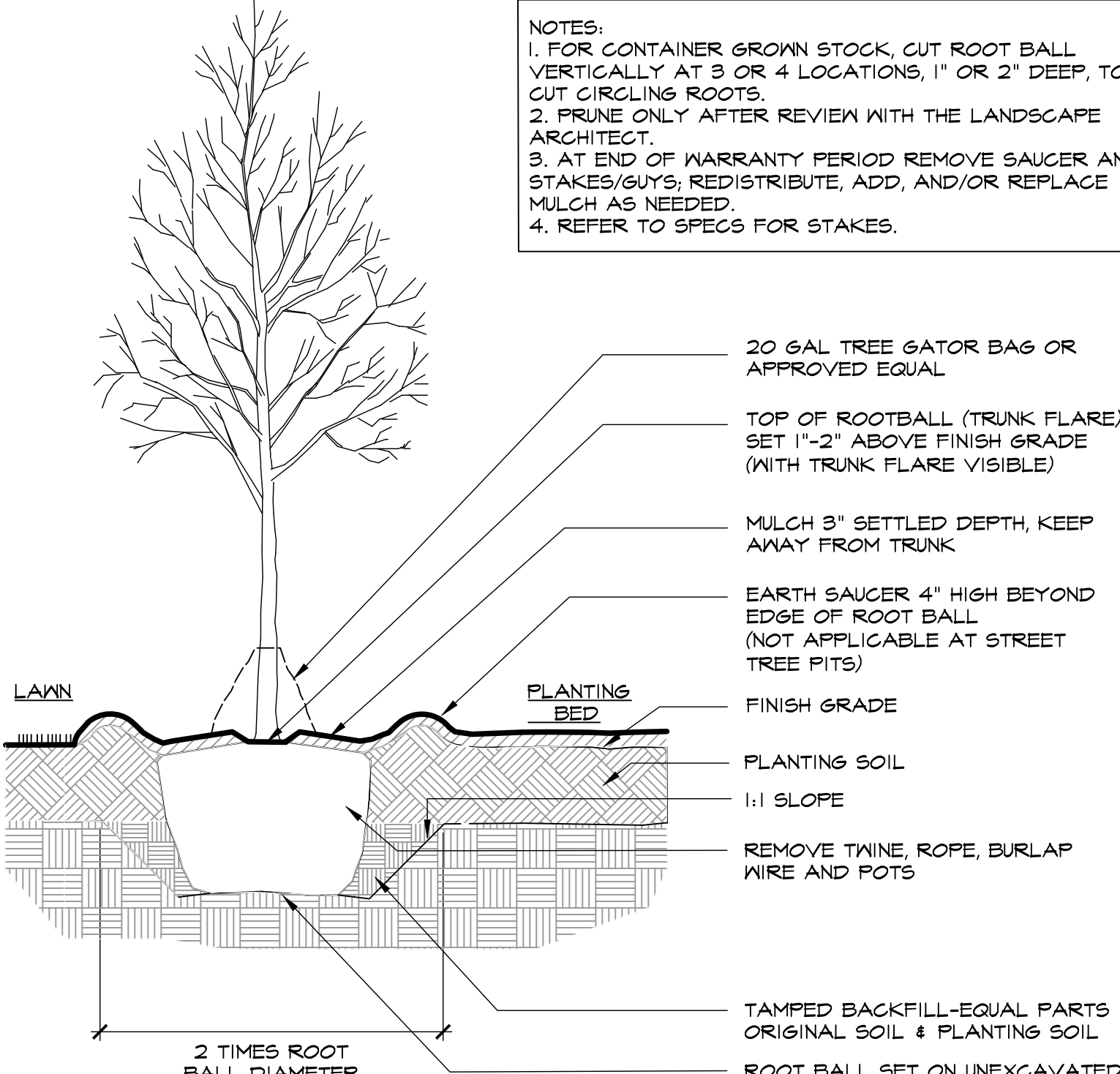
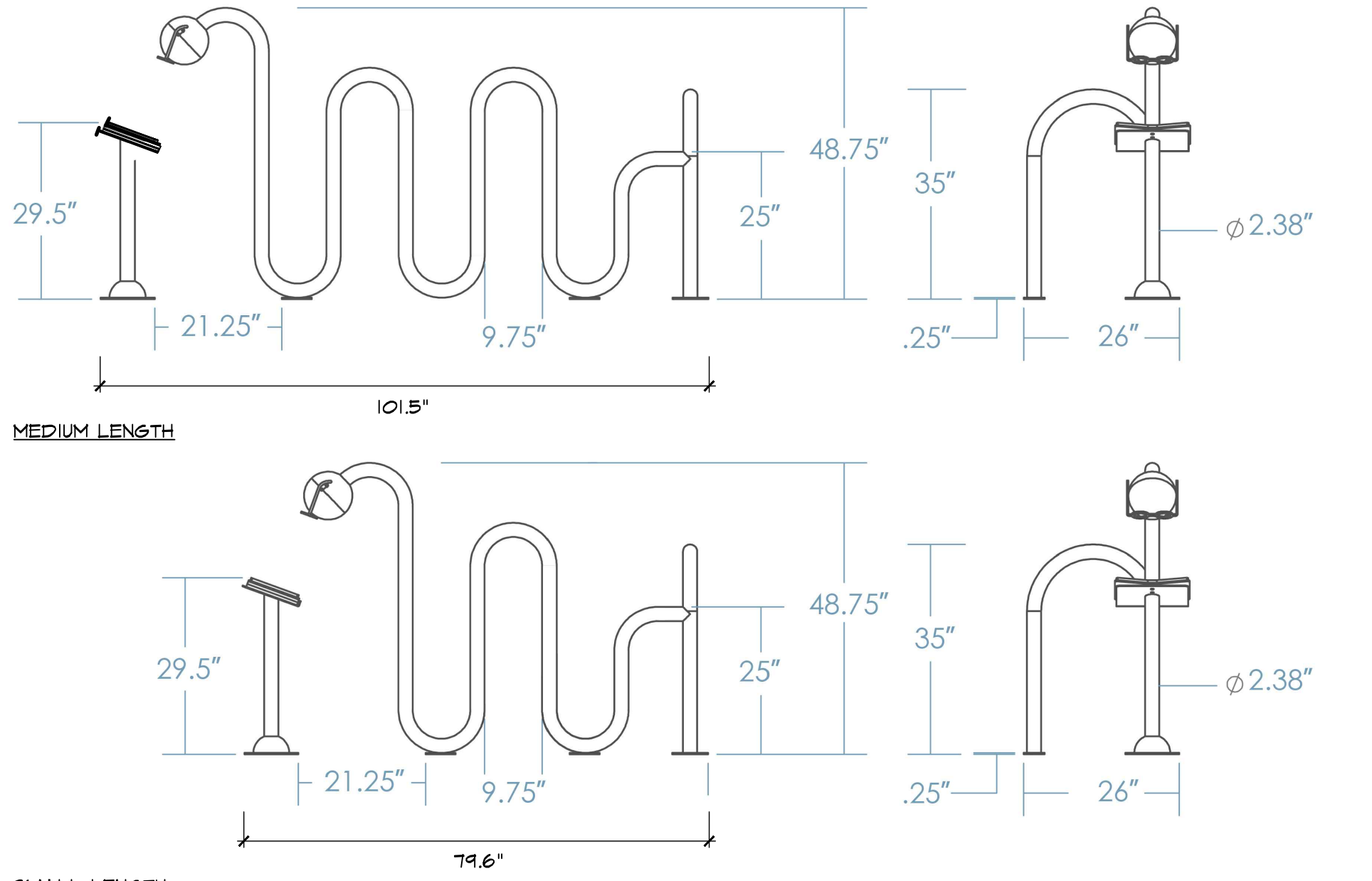
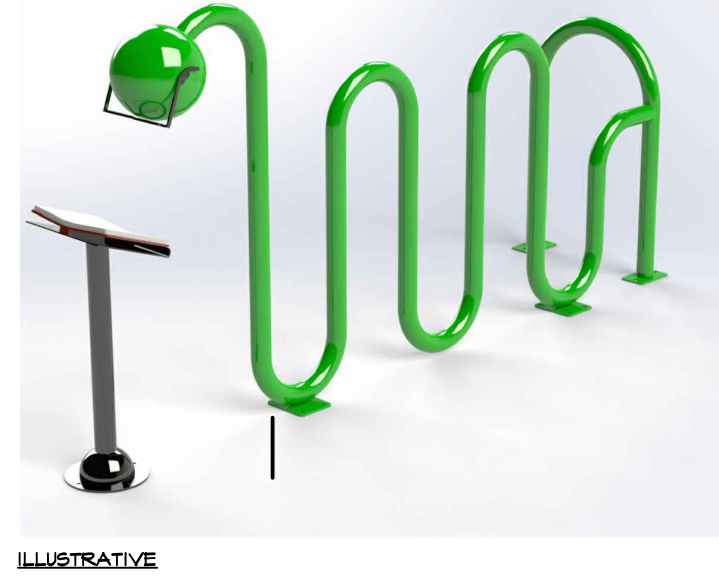
CU Structural Soil, licensed by EMEREC Inc, is also acceptable and may be included in the base bid and will not be considered a substitution, provided the following requirements are met:

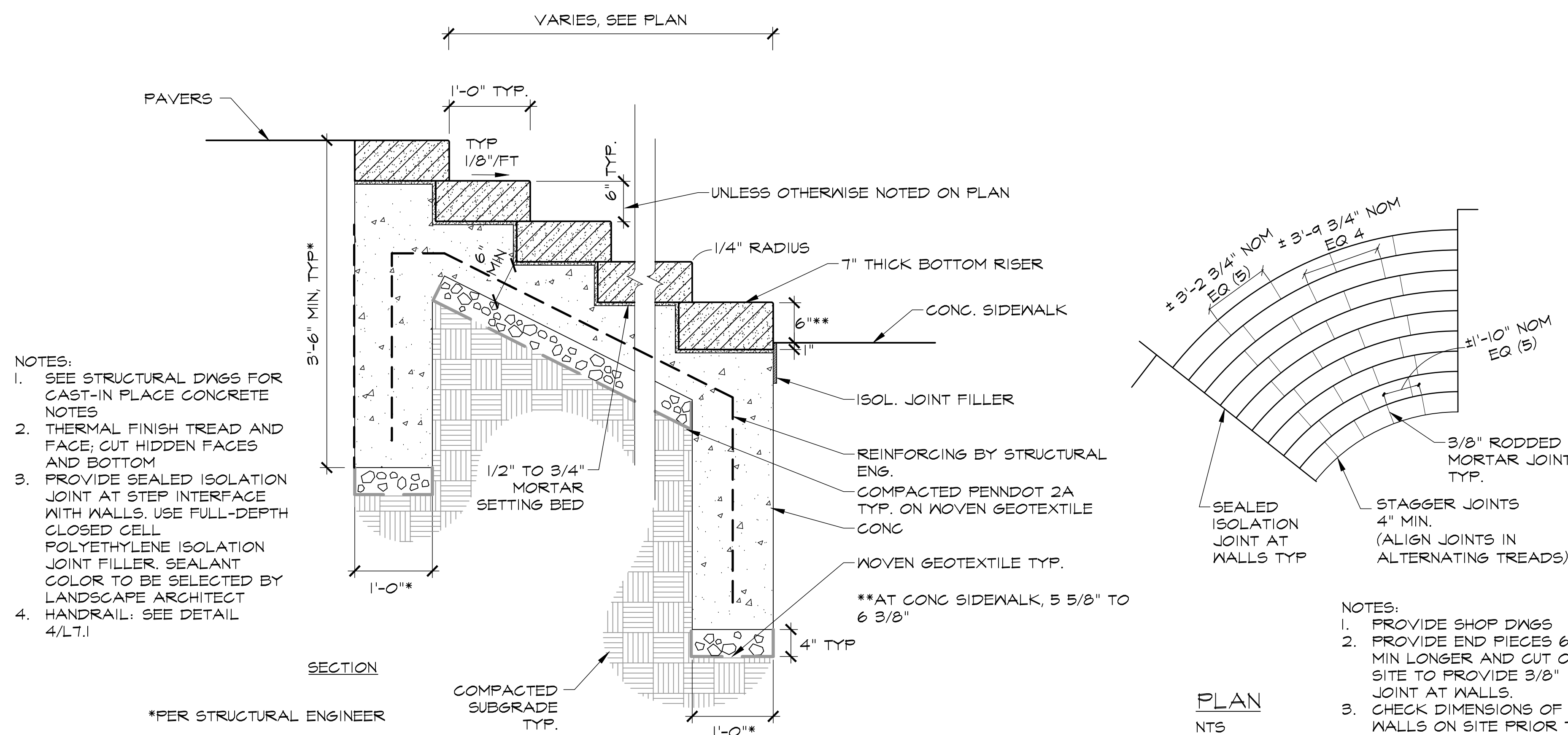
1. Installer must be a current CU Structural Soil Certified Installer. Submit installer certification within one month of Notice to Proceed or construction contract completion.
2. Structural soil and all component materials must meet the strict requirements of CU Structural Soil and be mixed and installed in strict accordance with CU Structural Soil specifications.
- 2.1. Composition: Provide a mixture of non-caliche crushed angular stone (3/4 inch to 1-1/2 inch), clay loam (minimum 20% clay, 2-5% organic matter), and Geoscape hydrogel.
- 2.2. Proportion: Blend must be approximately 80% stone to 20% soil by dry weight, and as required per CU Structural Soil Requirements.
3. Installation: Install in maximum 6-inch lifts and compact each lift in accordance with CU Structural Soil requirements.
4. Soil characteristics must support healthy tree growth; pit to be as determined by the Landscape Architect. Horticultural soil amendments may be required in addition to standard CU Structural Soil, at no additional cost to the Owner.
5. Contractor is responsible for all system adjustments required to accommodate adjacent conditions, including utilities, curbs, paving, and structures; include in the base bid pricing.
6. Submit manufacturer's cross section(s) of the system including fabric, each required component and any other requirements.
7. Submit each material and component for review and provide each submittal and test results indicated by CU soil specifications; the stricter of project specifications and CU soil requirements apply.
8. Contractor must include one system in the base bid. Both systems are considered acceptable if in compliance with these requirements.
9. Aeration pipes, tree pit, tree pit soil and root barrier remain in the base bid. 4" Penndot 2A aggregate under the sidewalk remains in the base bid (however it's reduced at thickened edge).
10. 24" CU soil thickness, as indicated.

Substitution requests for structural soil other than CU Structural Soil must prove equal or better of each aspect of structural soil, procedures and installer certification, and prove equal or better results and performance; mix must have a track record of 10 years minimum of proven results (provide addresses and contacts of at least 5 successful installations) and the installer must have a minimum of 5 years experience installing the specific substitute structural soil at a minimum of 5 projects (provide dates and locations, and owner contact email and phone number). Projects with poor tree growth or sinking paving will not be considered successful.



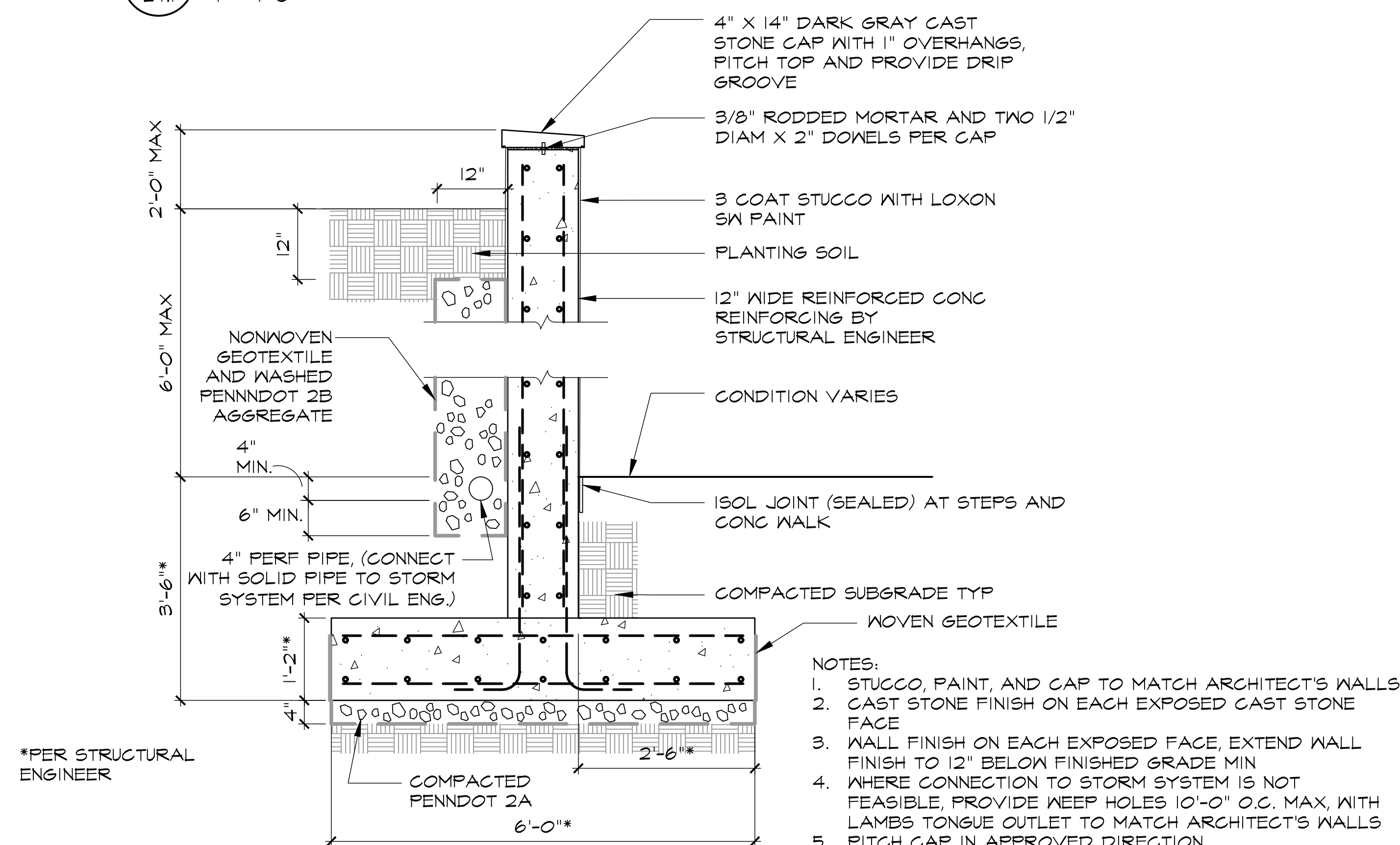
NOTE: DETAIL SHOWS RTANK URBAN FOREST SYSTEM. SEE NOTES REGARDING CU STRUCTURAL SOIL SYSTEM





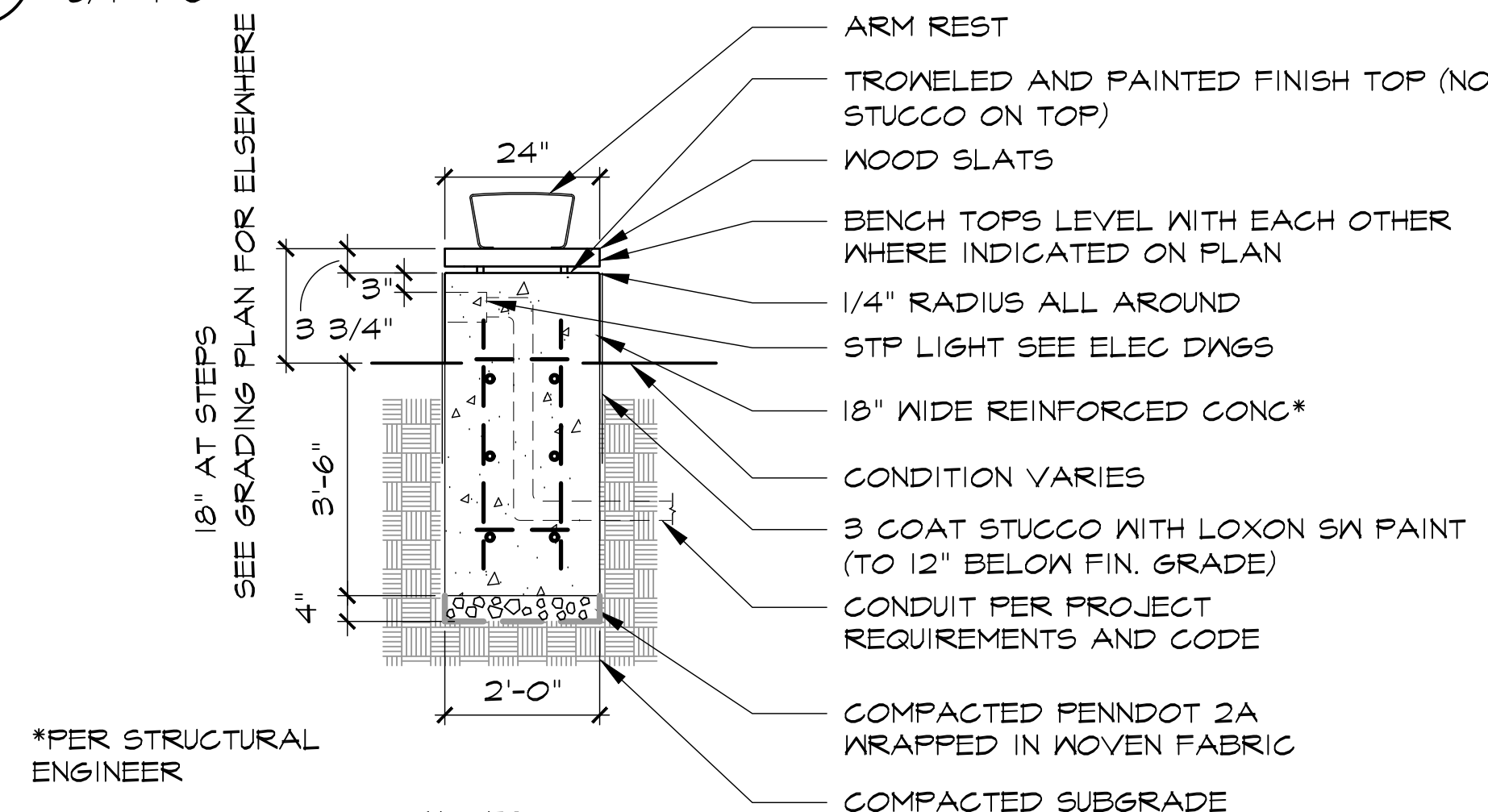
1 BLUESTONE STEPS

1" = 1'-0"



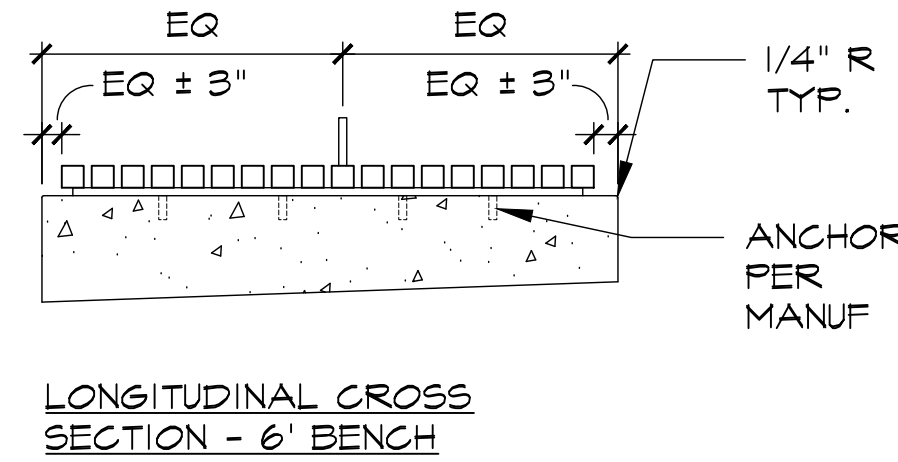
2 RETAINING WALL

3/4" = 1'-0"

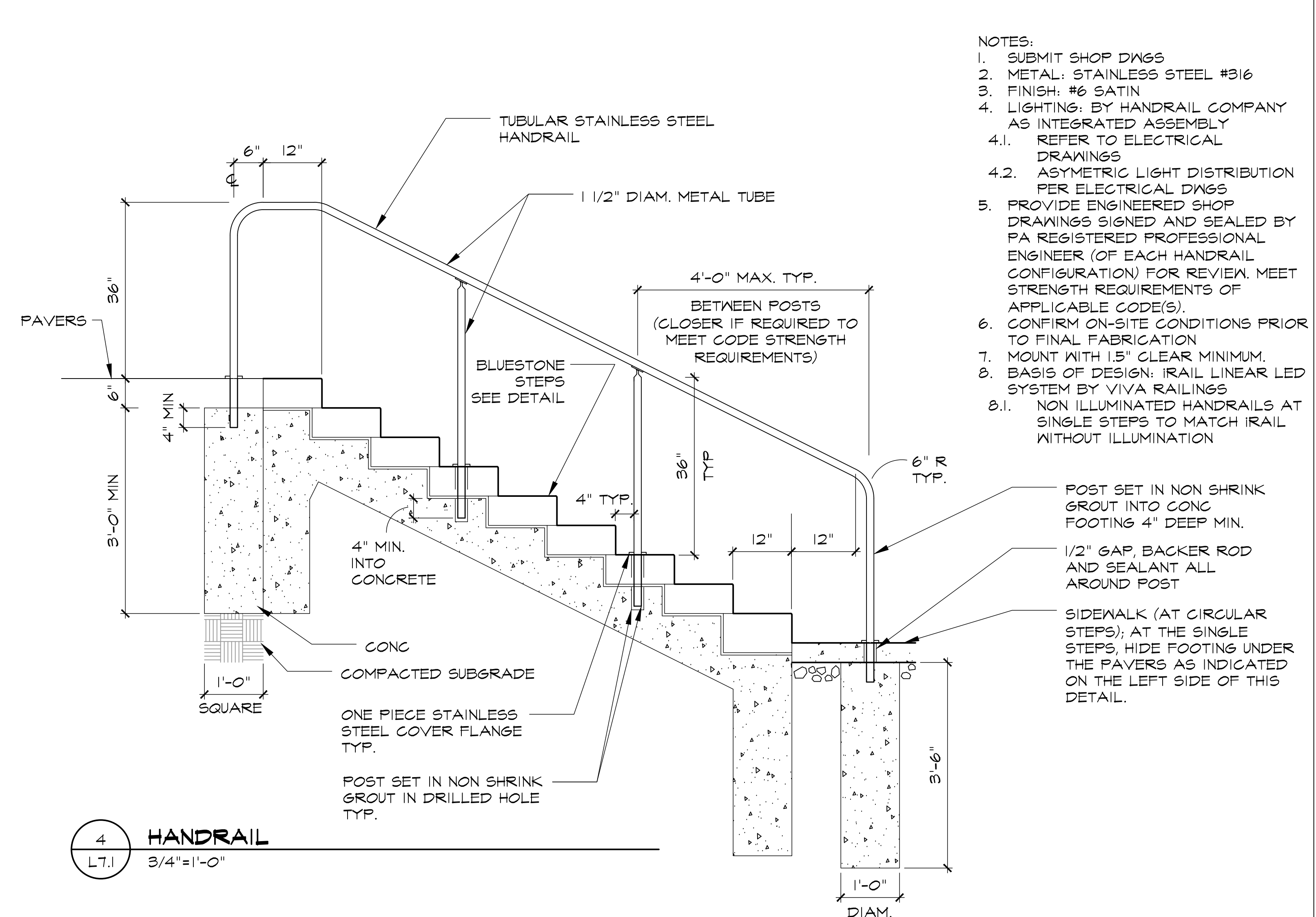


3 SEATWALL

1/2" = 1'-0"

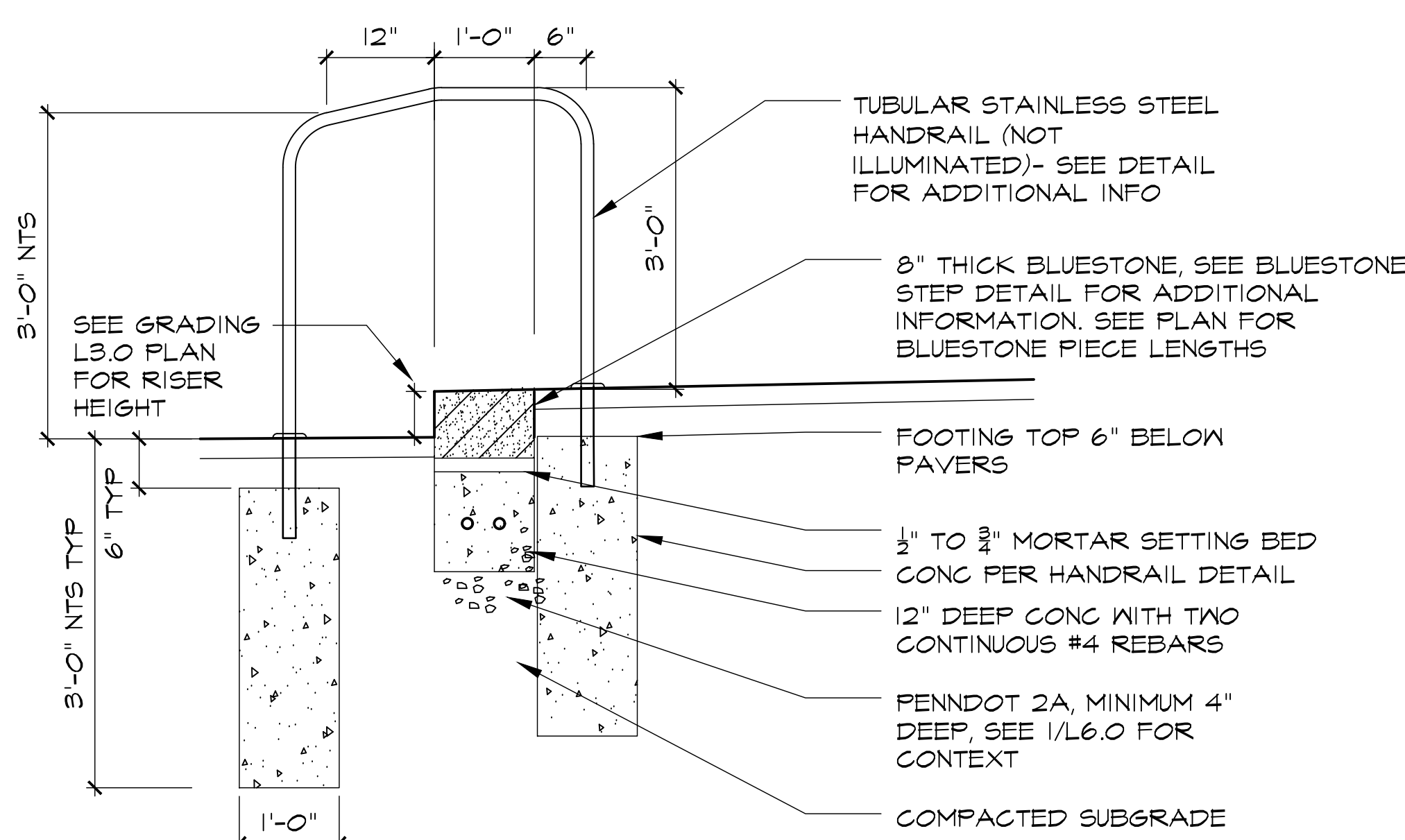


NOTES:
1. PROVIDE SHOP DWGS
2. PROVIDE END PIECES 6" MIN LONGER AND CUT ON SITE TO PROVIDE 3/8" JOINT AT WALLS
3. CHECK DIMENSIONS OF WALLS ON SITE PRIOR TO FABRICATION



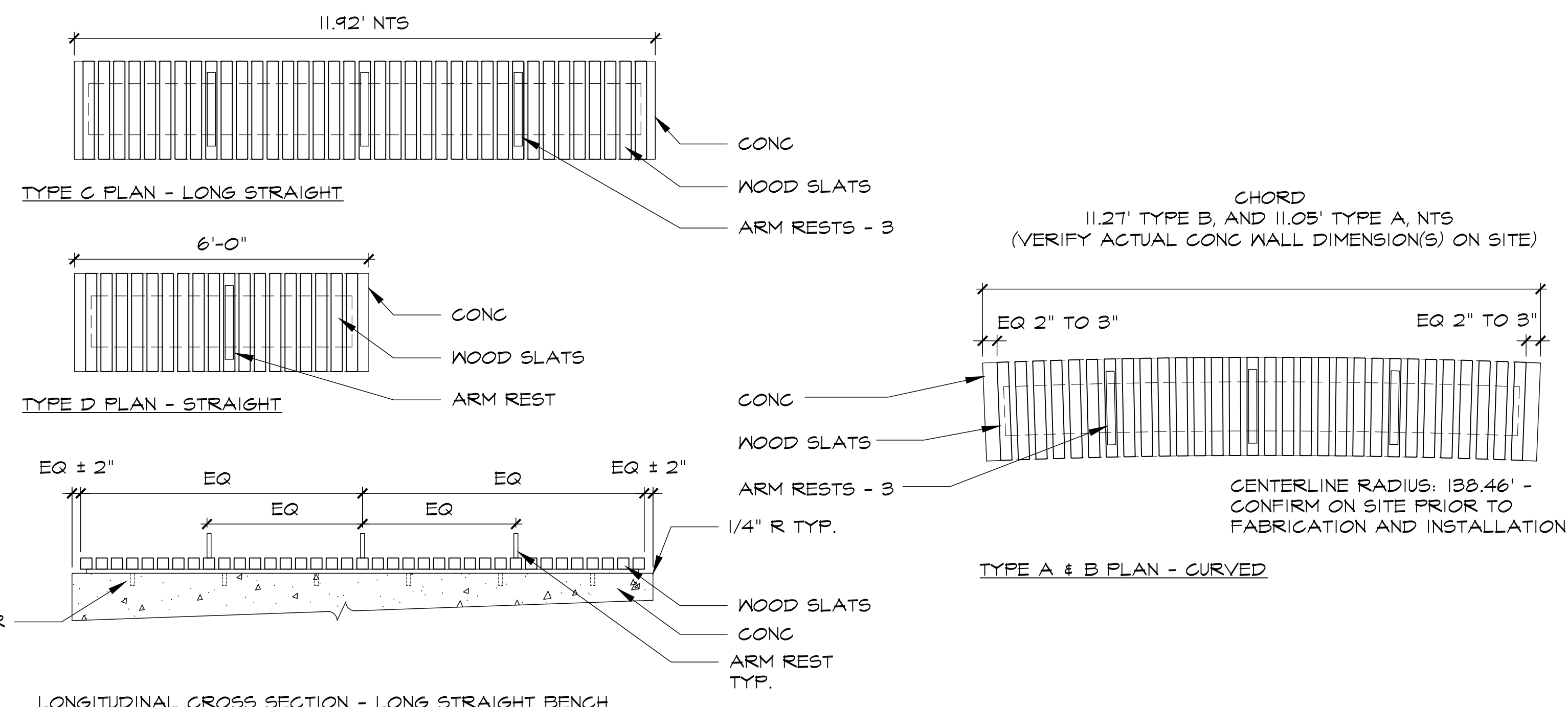
4 HANDRAIL

3/4" = 1'-0"



5 SINGLE STEP AND HANDRAIL

3/4" = 1'-0"



NOTES:
1. SUBMIT SHOP DWGS
2. METAL: STAINLESS STEEL #316
3. FINISH: #6 SATIN
4. LIGHTING: BY HANDRAIL COMPANY AS INTEGRATED ASSEMBLY
4.1. REFER TO ELECTRICAL DRAWINGS
4.2. ASYMMETRIC LIGHT DISTRIBUTION PER ELECTRICAL DWGS
5. PROVIDE ENGINEERED SHOP DRAWINGS SIGNED AND SEALED BY PA REGISTERED PROFESSIONAL ENGINEER (OF EACH HANDRAIL CONFIGURATION) FOR REVIEW. MEET STRENGTH REQUIREMENTS OF APPLICABLE CODE(S).
6. CONFIRM ON-SITE CONDITIONS PRIOR TO FINAL FABRICATION
7. MOUNT WITH 1.5" CLEAR MINIMUM
8. BASIS OF DESIGN: IRAIL LINEAR LED SYSTEM BY VIVA RAILINGS
8.1. NON ILLUMINATED HANDRAILS AT SINGLE STEPS TO MATCH IRAIL WITHOUT ILLUMINATION

POST SET IN NON SHRINK GROUT INTO CONG FOOTING 4" DEEP MIN.
1/2" GAP, BACKER ROD AND SEALANT ALL AROUND POST
SIDEWALK (AT CIRCULAR STEPS); AT THE SINGLE STEPS, HIDE FOOTING UNDER THE PAVERS AS INDICATED ON THE LEFT SIDE OF THIS DETAIL.

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L7.1