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TOWN OF WAYLAND

IMPROVEMENTS TO LOKER CONSERVATION AND RECREATION AREA

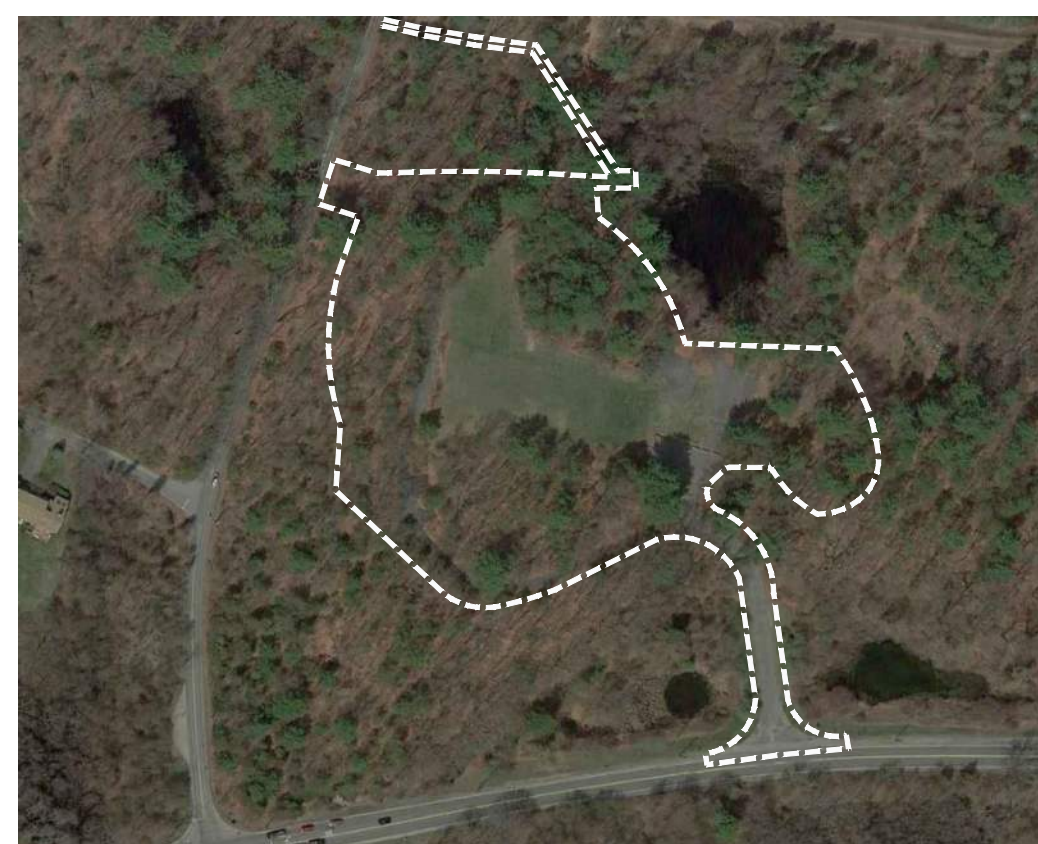
TOWN OF WAYLAND, MASSACHUSETTS

TOWN BUILDING
41 COCHITUATE RD
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BEN KEEFE
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Locus Map



LOKER CONSERVATION AND RECREATION AREA



LOKER CONSERVATION AND RECREATION AREA



LOKER CONSERVATION AND RECREATION AREA
410 COMMONWEALTH RD, WAYLAND, MA 01778

PERMITTING SET

-NOT FOR CONSTRUCTION-

FEBRUARY 18, 2022

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SHEET INDEX

L0.00.....	COVER SHEET
L0.01.....	GENERAL NOTES
L1.00.....	OVERALL EXISTING CONDITIONS PLAN
L2.00.....	OVERALL SITE PREPARATION AND DEMOLITION PLAN
L3.00.....	OVERALL SITE PLAN
L3.01-L3.02.....	MATERIALS PLAN ENLARGEMENT
L4.00.....	OVERALL LAYOUT PLAN
L4.01-L4.02.....	LAYOUT PLAN ENLARGEMENT
L5.00.....	OVERALL GRADING, DRAINAGE AND UTILITIES PLAN
L5.01-L5.02.....	GRADING, DRAINAGE AND UTILITIES PLAN ENLARGEMENT
L6.00.....	OVERALL PLANTING PLAN
L6.01.....	PLANTING PLAN ENLARGEMENT
L7.00-L7.06.....	CONSTRUCTION DETAILS
IR1.00.....	IRRIGATION PLAN
IR2.00.....	IRRIGATION DETAILS
E0.01.....	ELECTRICAL LEGEND, ABBREVIATIONS, AND GENERAL NOTES
E1.00.....	ELECTRICAL SITE PLAN
E2.00.....	ELECTRICAL ONE LINE AND SCHEDULES
E3.00.....	ELECTRICAL DETAILS



GENERAL NOTES

- PROPERTY LINES, SITE SURVEY AND TOPOGRAPHICAL INFORMATION BASED FROM A COMPILATION OF THE TOWN OF WAYLAND GIS, RECORD DRAWINGS AND ON THE GROUND SURVEYS PERFORMED BY WESTON & SAMPSON IN APRIL 2018.
- CONTOURS AND ELEVATIONS SHOWN ON NAVD88 VERTICAL DATUM BASED ON GPS OBSERVATIONS.
- NORTH ORIENTATION IS TRUE NORTH BASED ON GPS OBSERVATIONS TAKEN AT THE TIME OF THE FIELD SURVEY. MAPPING PREPARED ON NADV83 STATE PLANE COORDINATE SYSTEM-MASSACHUSETTS MAINLAND ZONE.
- FOR DETAILED NOTES REGARDING TEST PITS AND BORINGS, REFER TO MEMO TITLED "GEOTECH LETTER REPORT WAYLAND ATHLETIC FACILITIES" IN THE SPECIFICATIONS AND SEE SECTIONS RELATED TO LOKER.
- REFER TO GENERAL SYMBOLS FOR SURVEY LEGEND. ALL BIDDERS ARE REQUIRED TO INSPECT THE PROJECT SITE IN ITS ENTIRETY PRIOR TO SUBMITTING THEIR BID, AND BECOME FAMILIAR WITH ALL CONDITIONS AS THEY MAY AFFECT THEIR BID. CONTRACTOR AND SUB-CONTRACTOR SHALL BE FAMILIAR WITH ALL DRAWINGS AND SPECIFICATIONS PRIOR TO COMMENCING THE CONSTRUCTION.
- LOCATIONS OF ANY UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE ONLY. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION OF SUCH UTILITIES, PROTECTING ALL EXISTING UTILITIES AND REPAIRING ANY DAMAGE DONE DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ON-SITE COORDINATION WITH UTILITY COMPANIES AND PUBLIC AGENCIES AND FOR OBTAINING ALL REQUIRED PERMITS AND PAYING ALL REQUIRED FEES. IN ACCORDANCE WITH M.G.L. CHAPTER 82, SECTION 40, INCLUDING AMENDMENTS, CONTRACTORS SHALL NOTIFY ALL UTILITY COMPANIES AND GOVERNMENT AGENCIES IN WRITING PRIOR TO EXCAVATION. CONTRACTOR SHALL ALSO CALL "DIG SAFE" AT (888) 344-7233 NO LESS THAN 72 HOURS, (EXCLUSIVE OF WEEKENDS AND HOLIDAYS), PRIOR TO SUCH EXCAVATION. DOCUMENTATION OF REQUESTS SHALL BE PROVIDED TO OWNER'S REPRESENTATIVE PRIOR TO EXCAVATION WORK.

- WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR AND THE INFORMATION FURNISHED TO THE OWNER'S REPRESENTATIVE FOR RESOLUTION OF THE CONFLICT.
- THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS FOR THE ALTERATION AND ADJUSTMENT OF GAS, ELECTRIC, TELEPHONE AND ANY OTHER PRIVATE UTILITIES BY THE UTILITY OWNER AT NO ADDITIONAL COST TO THE TOWN OF WAYLAND.
- CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING ALL DRAWINGS AND SPECIFICATIONS TO DETERMINE THE EXTENT OF EXCAVATION AND DEMOLITION REQUIRED TO RECEIVE SITE IMPROVEMENTS.
- ANY DISCREPANCIES OR CONFLICTS BETWEEN THE DRAWINGS AND EXISTING CONDITIONS, EXISTING CONDITIONS TO REMAIN, TEMPORARY CONSTRUCTION, PERMANENT CONSTRUCTION AND WORK OF ADJACENT CONTRACTS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE BEFORE PROCEEDING. ITEMS ENCOUNTERED IN AREAS OF EXCAVATION THAT ARE NOT INDICATED ON THE DRAWINGS, BUT ARE VISIBLE ON SURFACE, SHALL BE THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE REMOVED AT NO ADDITIONAL COST TO THE OWNER.
- ANY ALTERATIONS TO THESE DRAWINGS MADE IN THE FIELD DURING CONSTRUCTION SHALL BE RECORDED BY THE GENERAL CONTRACTOR ON "AS BUILT" DRAWINGS.
- ALL AREAS DISTURBED BY THE CONTRACTOR'S OPERATIONS OUTSIDE THE PROJECT LIMITS, SHALL BE RESTORED TO THE ORIGINAL CONDITION BY THE CONTRACTOR AT NO ADDITIONAL COST AND TO THE SATISFACTION OF THE OWNER.
- ALL WORK SHOWN ON THE PLANS AS BOLD SHALL REPRESENT PROPOSED WORK. THE TERM "PROPOSED (PROP)" INDICATES WORK TO BE CONSTRUCTED USING NEW MATERIALS OR, WHERE APPLICABLE, RE-USING EXISTING MATERIALS IDENTIFIED AS "REMOVE AND RESET (R&R)" OR "REMOVE AND SALVAGE (R&S)".
- ALL KNOWN EXISTING STATE, COUNTY AND TOWN LOCATION LINES AND

PRIVATE PROPERTY LINES HAVE BEEN ESTABLISHED FROM AVAILABLE INFORMATION AND ARE INDICATED ON THE PLANS.

- THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT HIS EMPLOYEES, AS WELL AS PUBLIC USERS FROM INJURY DURING THE ENTIRE CONSTRUCTION PERIOD USING ALL NECESSARY SAFEGUARDS, INCLUDING BUT NOT LIMITED TO, THE ERECTION OF TEMPORARY WALKS, STRUCTURES, PROTECTIVE BARRIERS, COVERING, OR FENCES AS NEEDED.
- THE CONTRACTOR SHALL SUPPLY THE OWNER WITH THE NAME OF THE OSHA "COMPETENT PERSON" PRIOR TO CONSTRUCTION.
- FILLING OF EXCAVATED AREAS SHALL NOT TAKE PLACE WITHOUT THE PRESENCE OR PERMISSION OF THE OWNER.
- EXISTING TREES TO REMAIN SHALL BE PROTECTED FROM CONSTRUCTION ACTIVITIES. NO STOCKPILING OF MATERIAL, EQUIPMENT OR VEHICULAR TRAFFIC SHALL BE ALLOWED WITHIN THE DRIP LINE OF TREES TO REMAIN. NO GUYS SHALL BE ATTACHED TO ANY TREE TO REMAIN. WHEN NECESSARY OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE, THE CONTRACTOR SHALL ERECT TEMPORARY BARRIERS FOR THE PROTECTION OF EXISTING TREES DURING CONSTRUCTION.
- TREES AND SHRUBS WITHIN THE LIMITS OF WORK SHALL BE REMOVED ONLY UPON THE APPROVAL OF THE OWNER'S REPRESENTATIVE OR AS NOTED ON THE PLANS.
- NO FILLING SHALL OCCUR AROUND EXISTING TREES TO REMAIN WITHOUT THE APPROVAL OF THE OWNER OR OWNER REPRESENTATIVE.
- THE CONTRACTOR SHALL REMOVE ALL SURFACE VEGETATION PRIOR TO GRADING THE SITE. TREES AND STUMPS SHALL BE REMOVED AND DISPOSED COMPLETE BY CONTRACTOR. TEMPORARY EROSION CONTROL MEASURES SHOWN ON THE DRAWINGS (INCLUDING SILT FENCE, STRAW WATTLES, OR SILT SOCKS) SHALL BE INSTALLED BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THESE TEMPORARY EROSION CONTROL MEASURES THROUGHOUT THE PROJECT WHICH COST SHALL BE INCIDENTAL TO THE PROJECT.
- ALL UNSUITABLE UNCONTAMINATED EXCESS SOIL FROM CONSTRUCTION

ACTIVITIES SHALL BE DISPOSED OF BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE TOWN. REMOVAL ACTIVITIES SHALL BE ACCORDANCE WITH STATE AND LOCAL REGULATIONS AT NO ADDITIONAL COST TO THE TOWN. REFER TO WAYLAND TOWN BY-LAW §198-504 EARTH MOVEMENT. SUITABLE SOIL EXCAVATION AS PART OF THE PROJECT MUST MEET ONE OR MORE OF THE MATERIAL REQUIREMENTS SPECIFIED IN 31 00 00-EARTHWORK. IF THE CONTRACTOR PROPOSES TO USE THE EXISTING FILL ON SITE BELOW PAVEMENT AREAS, HE MUST DEMONSTRATE THAT THE FILL MEETS THE REQUIREMENTS PER THE SPECIFICATIONS. ALL EXCAVATED FILL MATERIAL WHICH DOES NOT MEET THE REQUIREMENTS OF THE CONTRACT DOCUMENTS SHALL BE REMOVED AND DISPOSED OF OFF-SITE AT NO ADDITIONAL COST.

- CONTRACTOR IS RESPONSIBLE FOR STAKING CONSTRUCTION BASELINES IN FIELD WITH A MA. REGISTERED PROFESSIONAL LAND SURVEYOR. NO CONSTRUCTION WILL BE PERFORMED WITHOUT THE PROPOSED BASELINES AND LAYOUTS APPROVED BY THE ENGINEER.
- NO FILL SHALL CONTAIN HAZARDOUS MATERIALS.
- CONTRACTOR SHALL PROVIDE TEMPORARY CONSTRUCTION FENCING AROUND PERIMETER OF WORK AREA (LIMIT OF WORK). FENCE SHALL NOT IMPEDE TRAVEL WAYS.
- ANY QUANTITIES SHOWN ON PLANS ARE FOR COMPARATIVE BIDDING PURPOSES ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE PROJECT SITE TO VERIFY ALL QUANTITIES AND CONDITIONS PRIOR TO SUBMITTING BID.
- ALL EXISTING DRAINAGE FACILITIES TO REMAIN SHALL BE MAINTAINED FREE OF DEBRIS, SOIL, SEDIMENT, AND FOREIGN MATERIAL AND OPERATIONAL THROUGHOUT THE LIFE OF THE CONTRACT. REMOVE ALL SOIL, SEDIMENT, DEBRIS AND FOREIGN MATERIAL FROM ALL DRAINAGE STRUCTURES, INCLUDING BUT NOT LIMITED TO, DRAINAGE INLETS, MANHOLES AND CATCH BASINS WITHIN THE LIMIT OF WORK AND DRAINAGE STRUCTURES OUTSIDE THE LIMIT OF WORK THAT ARE IMPACTED BY THE WORK FOR THE ENTIRE DURATION OF CONSTRUCTION.
- CONTRACTOR'S STAGING AREA MUST BE WITHIN THE CONTRACT LIMIT LINE AND IN AREAS APPROVED BY OWNER. ANY OTHER AREAS THAT THE CONTRACTOR MAY WISH TO USE FOR STAGING MUST BE COORDINATED

WITH THE OWNER.

- THE CONTRACTOR SHALL KEEP ALL STREETS, PARKING LOTS AND WALKS THAT ARE NOT RESTRICTED FROM PUBLIC USE DURING CONSTRUCTION BROOM CLEAN AT ALL TIMES. THE CONTRACTOR SHALL USE ACCEPTABLE METHODS AND MATERIALS TO MAINTAIN ADEQUATE DUST CONTROL THROUGHOUT CONSTRUCTION.
- CONTRACTOR SHALL COORDINATE ALL WORK WITH THE OWNER.
- THE LIMIT OF WORK SHALL BE DELINEATED IN THE FIELD PRIOR TO THE START OF SITE CLEARING OR CONSTRUCTION AND AGREED UPON WITH THE OWNER'S REPRESENTATIVE.
- DEEP SUMP CATCH BASINS AND STORMWATER BASINS SHALL BE CLEANED FOLLOWING CONSTRUCTION AND SHALL FOLLOW THE OPERATION AND MAINTENANCE PLAN THEREAFTER.
- HAULING OF EARTH MATERIALS TO AND FROM THE SITE SHALL BE RESTRICTED TO THE HOURS OF 7 AM TO 5 PM.
- ANY BOULDERS 3 CY OR SMALLER SHALL BE CONSIDERED UNDOCUMENTED FILL AND SHALL BE DISPOSED OF AT NO ADDITIONAL COST TO THE TOWN.
- WORK ON WEEKENDS SHALL ONLY BE CONDUCTED IF PRIOR WRITTEN PERMISSION IS PROVIDED BY THE TOWN.
- NO TRUCKS LEFT IDLING ON TOWN STREETS DURING CONSTRUCTION. CONSTRUCTION TRAFFIC AT NO TIME SHALL IMPEDE FLOW OF RESIDENT TRAFFIC.

DEMOLITION & SITE PREPARATION NOTES

- THE CONTRACTOR SHALL INCLUDE IN THE BID THE COST OF REMOVING ANY EXISTING SITE FEATURES AND APPURTENANCES NECESSARY TO ACCOMPLISH THE CONSTRUCTION OF THE PROPOSED SITE IMPROVEMENTS. THE CONTRACTOR SHALL ALSO INCLUDE IN THE BID THE COST NECESSARY TO RESTORE SUCH ITEMS IF THEY ARE SCHEDULED TO REMAIN AS PART OF THE FINAL SITE IMPROVEMENTS. REFER TO PLANS TO DETERMINE EXCAVATION AND DEMOLITION REQUIREMENTS AND TO DETERMINE THE LOCATION OF THE PROPOSED SITE IMPROVEMENTS.
- THE OWNER RESERVES THE RIGHT TO REVIEW ALL MATERIALS DESIGNATED FOR REMOVAL AND TO RETAIN OWNERSHIP OF SUCH MATERIALS. IF THE OWNER RETAINS ANY MATERIAL THE CONTRACTOR SHALL MAKE ARRANGEMENTS WITH THE OWNER TO HAVE THOSE MATERIALS REMOVED OFF SITE TO A DESIGNATED MUNICIPAL PROPERTY AT NO ADDITIONAL COST. ALL GEOTECHNICALLY OR UNSUITABLE UNCONTAMINATED EXCESS SOIL FROM CONSTRUCTION ACTIVITIES SHALL BE DISPOSED OF BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE TOWN. REMOVAL ACTIVITIES SHALL BE ACCORDANCE WITH STATE AND LOCAL REGULATIONS AT NO ADDITIONAL COST TO THE TOWN. REFER TO WAYLAND TOWN BY-LAW §198-504 EARTH MOVEMENT.
- UNLESS SPECIFICALLY NOTED TO BE REMOVED AND STOCKPILED (R&S) OR REUSED AND RELOCATED (R&R), ALL SITE FEATURES CALLED TO BE REMOVED AND DEMOLISHED (R&D) SHALL BE REMOVED WITH THEIR FOOTINGS, ATTACHMENTS, BASE MATERIAL, ETC. TRANSPORTED FROM THE SITE TO BE DISPOSED OF IN A LAWFUL MANNER AT AN ACCEPTABLE DISPOSAL SITE AND AT NO ADDITIONAL COST TO THE OWNER.
- ALL EXISTING SITE FEATURES TO REMAIN SHALL BE PROTECTED THROUGHOUT THE CONSTRUCTION PERIOD. ANY FEATURES DAMAGED DURING CONSTRUCTION OPERATIONS SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER AND/OR OWNER'S REPRESENTATIVE AT NO ADDITIONAL COST.
- DURING EARTHWORK OPERATIONS, CONTRACTOR SHALL TAKE CARE TO NOT DISTURB EXISTING MATERIALS TO REMAIN, OUTSIDE THE LIMITS OF EXCAVATION AND BACKFILL AND SHALL TAKE WHATEVER MEASURES NECESSARY, AT THE CONTRACTOR'S EXPENSE, TO PREVENT ANY EXCAVATED MATERIAL FROM COLLAPSING. ALL BACKFILL MATERIALS SHALL BE PLACED AND COMPACTED AS SPECIFIED TO THE SUBGRADE REQUIRED FOR THE INSTALLATION OF THE REMAINDER OF THE CONTRACT WORK.
- IT SHALL BE THE CONTRACTOR'S OPTION, WITH CONCURRENCE OF THE OWNER'S REPRESENTATIVE, TO REUSE EXISTING BITUMINOUS CONCRETE PAVEMENT BASE COURSE AND/ OR SUBBASE GRAVEL MATERIALS IF IT MEETS THE REQUIREMENTS OF THE SPECIFICATIONS FOR DENSE GRADED CRUSHED STONE.
- STRIP & STOCKPILE EXISTING TOPSOIL FOR LATER REUSE AS REQUIRED. STOCKPILE SHALL HAVE APPROPRIATE EROSION AND SEDIMENT CONTROLS. THE CONTRACTOR SHALL CONFIRM THAT THE TOPSOIL IS SUITABLE FOR REUSE AND IT MEETS THE REQUIREMENTS OF THE SPECIFICATIONS FOR TOPSOIL LOAM BORROW.
- CLEAR AND GRUB VEGETATION SHALL INCLUDE REMOVAL OF ALL GRASS/LAWN, SHRUBS, AND UNDERBRUSH, REMOVAL OF ROOTS, AND ROUGH GRADING. INSTALLATION OF LOAM (IF APPLICABLE), FINE GRADING, SEEDING AND TURF OR VEGETATION ESTABLISHMENT BY THE CONTRACTOR.
- THE CONTRACTOR SHALL PROTECT EXISTING TREES TO REMAIN. CONTRACTOR SHALL INSTALL TREE PROTECTION BARRIERS AFTER CLEARING TURF AND UNDERBRUSH BY HAND AND TAKE DUE CARE TO PREVENT INJURY TO TREES DURING CLEARING OPERATIONS.
- THE STORAGE OF MATERIALS AND EQUIPMENT WILL BE PERMITTED AT LOCATIONS DESIGNATED BY OWNER OR OWNER'S REPRESENTATIVE. PROTECTION OF STORED MATERIALS AND EQUIPMENT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

EROSION AND SEDIMENT CONTROL NOTES

- ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE PUT INTO PLACE PRIOR TO BEGINNING ANY CONSTRUCTION OR DEMOLITION. REFER TO PLANS FOR APPROXIMATE LOCATION OF EROSION AND SEDIMENT CONTROL. REFER TO SPECS AND DETAILS FOR TYPE OF EROSION AND SEDIMENT CONTROL.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTINUAL MAINTENANCE OF ALL CONTROL DEVICES THROUGHOUT THE DURATION OF THE PROJECT.
- CONTRACTOR SHALL MEET ALL OF THE STATE OF MASSACHUSETTS AND THE TOWN OF WAYLAND WETLAND ORDINANCE REGULATIONS FOR SEDIMENT AND EROSION CONTROL.
- EXCAVATED MATERIAL STOCKPILED ON THE SITE SHALL BE SURROUNDED BY A RING OF UNBROKEN SEDIMENT AND EROSION CONTROL FENCE. THE LIMITS OF ALL GRADING AND DISTURBANCE SHALL BE KEPT TO A MINIMUM WITHIN THE APPROVED AREA OF CONSTRUCTION. ALL AREAS OUTSIDE OF THE LIMIT OF CONTRACT SHALL REMAIN TOTALLY UNDISTURBED UNLESS OTHERWISE APPROVED BY OWNERS REPRESENTATIVE.
- ALL CATCH BASINS AND DRAIN GRATES WITHIN THE LIMIT OF WORK SHALL BE PROTECTED WITH SILT SACKS DURING THE ENTIRE DURATION OF CONSTRUCTION.
- EROSION CONTROL BARRIERS TO BE INSTALLED AT THE TOE OF SLOPES. SEE GRADING & DRAINAGE PLANS, NOTES, DETAILS AND SPECIFICATIONS.
- THE CONTRACTOR SHALL PROVIDE DUST CONTROL FOR CONSTRUCTION OPERATIONS AS APPROVED BY THE OWNER'S REPRESENTATIVE AND MASSACHUSETTS D.E.P. REQUIREMENTS.
- ALL POINTS OF CONSTRUCTION EGRESS OR INGRESS SHALL BE MAINTAINED TO PREVENT TRACKING OR FLOWING OF SEDIMENT ON TO PUBLIC/PRIVATE ROADS.
- ALL MATERIAL HAULING VEHICLES SHALL BE COMPLETELY COVERED PRIOR TO LEAVING THE SITE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR WHEEL CLEANING OF ALL CONSTRUCTION VEHICLES PRIOR TO EXITING THE SITE. CONTRACTOR SHALL ENSURE THAT MATERIAL HAULING VEHICLES REMAIN ON PAVED SURFACES AS MUCH AS POSSIBLE.

LAYOUT NOTES

- COORDINATE ALL LAYOUT ACTIVITIES WITH THE SCOPE OF WORK CALLED FOR BY DEMOLITION, GRADING AND UTILITIES OPERATIONS ENCOMPASSED BY THIS CONTRACT. SET, PROTECT AND REPLACE REFERENCE STAKES AS NECESSARY OR AS REQUIRED BY THE OWNER'S REPRESENTATIVE.
- ALL WORK SHALL BE PERFORMED BY CONTRACTOR UNLESS SPECIFICALLY INDICATED THAT THE WORK WILL BE PERFORMED "BY OWNER".
- THE LAYOUT OF SITE AMENITIES AND FENCES MUST BE APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
- ALL PROPOSED SITE FEATURES SHALL BE LAID OUT AND STAKED FOR REVIEW AND APPROVAL BY THE OWNER'S REPRESENTATIVE PRIOR TO COMMENCEMENT OF INSTALLATION. ANY REQUIRED ADJUSTMENTS TO THE LAYOUT SHALL BE UNDERTAKEN AS DIRECTED, AT NO ADDITIONAL COST TO THE OWNER.
- ALL PROPOSED PAVEMENTS SHALL MEET THE LINE AND GRADE OF EXISTING ADJACENT PAVEMENT SURFACES AND SHALL BE TREATED WITH AN RS-1 TACK COAT AT POINT OF CONNECTION. ALL PATHWAY WIDTHS SHALL BE AS NOTED ON THE LAYOUT AND MATERIALS PLAN.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND GRADES ON THE GROUND AND REPORT ANY DISCREPANCIES IMMEDIATELY TO THE OWNER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD MEASUREMENTS OF ALL PROPOSED FENCES, GATES.

GRADING & DRAINAGE NOTES

- ALL WORK RELATING TO INSTALLATION, RENOVATION OR MODIFICATION OF DRAINAGE SERVICES SHALL BE PERFORMED IN ACCORDANCE WITH THE STANDARDS OF THE TOWN OF WAYLAND AND ITS DEPARTMENT OF PUBLIC WORKS.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, GRADES AND INVERT ELEVATIONS IN THE FIELD AND REPORT ANY DISCREPANCIES IMMEDIATELY TO THE OWNER AND OWNER'S REPRESENTATIVE.
- ALL NEW WALKWAYS MUST CONFORM TO CURRENT AMERICANS WITH DISABILITIES ACT (ADA) REGULATIONS: WALKWAYS SHALL MAINTAIN A CROSS PITCH OF NOT MORE THAN ONE AND A HALF (1.5%) PERCENT MAXIMUM AND THE RUNNING SLOPE (PARALLEL TO THE DIRECTION OF TRAVEL) OF 4.5% MAXIMUM.
- MINIMUM SLOPE ON ALL WALKWAYS WILL BE 1:100 OR 1% TO PROVIDE POSITIVE DRAINAGE. ANY DISCREPANCIES NOT ALLOWING THIS TO OCCUR SHALL BE REPORTED TO THE OWNER'S REPRESENTATIVE PRIOR TO CONTINUING WORK.
- ALL UTILITY GRATES, COVERS OR OTHER SURFACE ELEMENTS INTENDED TO BE EXPOSED AT GRADE SHALL BE FLUSH WITH THE ADJACENT FINISHED GRADE AND ADJUSTED TO PROVIDE A SMOOTH TRANSITION AT ALL EDGES.
- THE CONTRACTOR SHALL SET SUBGRADE ELEVATIONS TO ALLOW FOR POSITIVE DRAINAGE AND PROVIDE EROSION CONTROL DEVICES, STRUCTURES, MATERIALS AND CONSTRUCTION METHODS TO DIRECT SILT MIGRATION AWAY FROM DRAINAGE AND OTHER UTILITY SYSTEMS, PUBLIC/PRIVATE STREETS AND WORK AREAS. CLEAN BASINS REGULARLY AND AT THE END OF THE PROJECT.
- CONTRACTOR SHALL ENSURE ALL AREAS ARE PROPERLY PITCHED TO DRAIN, WITH NO SURFACE WATER PONDING OR PUDDLING.
- EXCAVATION REQUIRED WITHIN PROXIMITY OF KNOWN EXISTING UTILITY LINES SHALL BE DONE BY HAND. CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING UTILITY LINES OR STRUCTURES INCURRED DURING CONSTRUCTION OPERATIONS AT NO COST TO THE OWNER.
- WHERE NEW EARTHWORK MEETS EXISTING EARTHWORK, CONTRACTOR SHALL BLEND NEW EARTHWORK SMOOTHLY INTO EXISTING, PROVIDING VERTICAL CURVES OR POUNDS AT ALL TOP AND BOTTOM OF SLOPES.
- WHERE A SPECIFIC LIMIT OF WORK LINE IS NOT OBVIOUS OR IMPLIED, BLEND GRADES TO EXISTING CONDITIONS WITHIN 5 FEET OF PROPOSED CONTOURS.
- RESTORE ALL DISTURBED AREAS AND LIMITS OF ALL REMOVALS TO LOAM AND CONSERVATION SEED MIX UNLESS OTHERWISE NOTED.
- WHERE NEW IMPROVEMENTS MEET EXISTING CONDITIONS, MEET LINE AND GRADE OF EXISTING ADJACENT PAVEMENTS, TYPICAL.

Project:

IMPROVEMENTS TO
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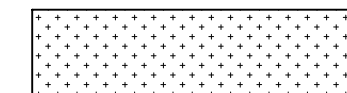

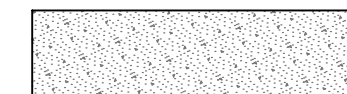
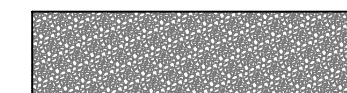






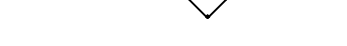

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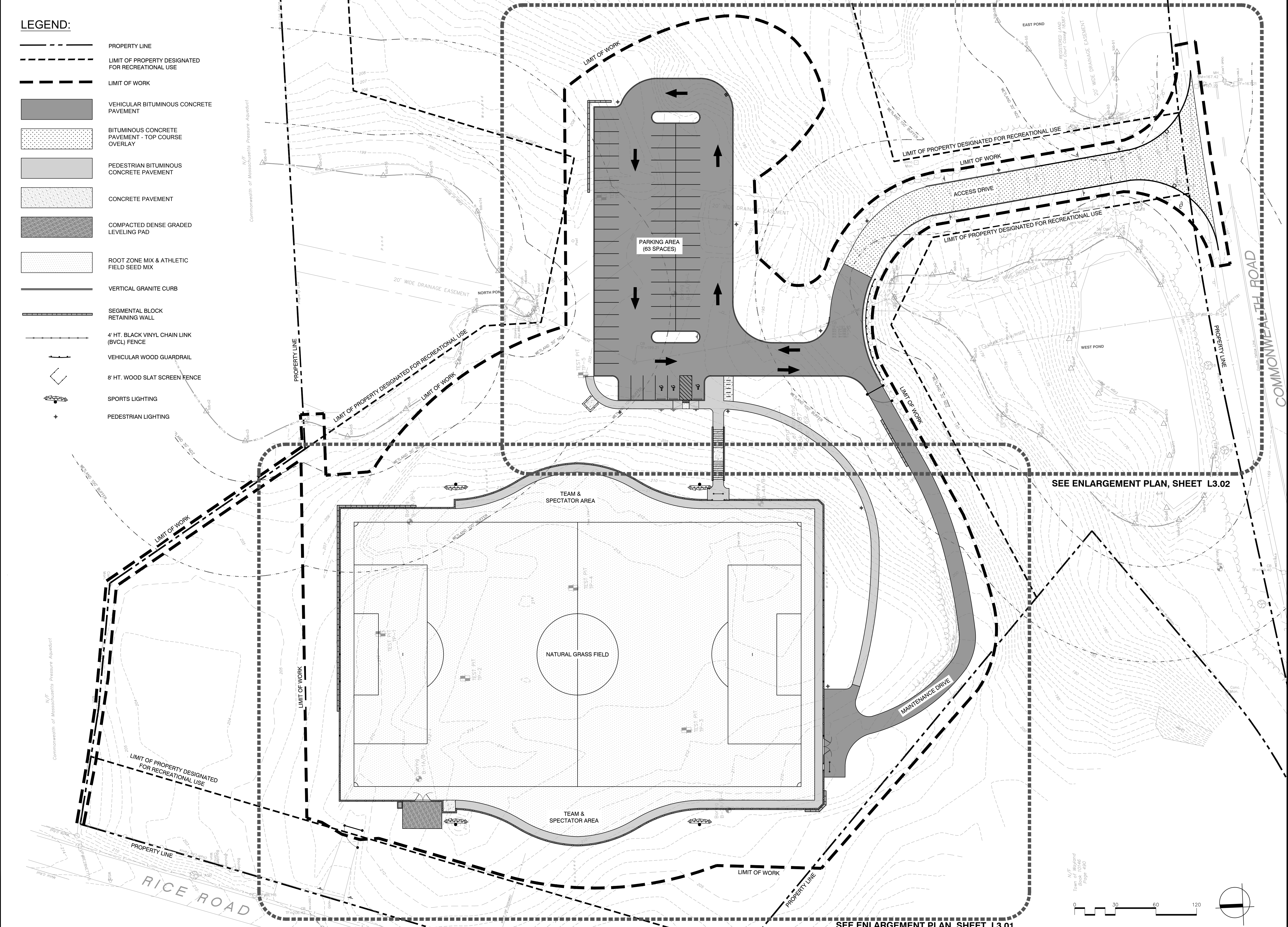
GENERAL NOTES

Sheet Number:


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LEGEND:

-  PROPERTY LINE
-  LIMIT OF PROPERTY DESIGNATED FOR RECREATIONAL USE
-  LIMIT OF WORK
-  VEHICULAR BITUMINOUS CONCRETE PAVEMENT
-  BITUMINOUS CONCRETE PAVEMENT - TOP COURSE OVERLAY
-  PEDESTRIAN BITUMINOUS CONCRETE PAVEMENT
-  CONCRETE PAVEMENT
-  COMPACTED DENSE GRADED LEVELING PAD
-  ROOT ZONE MIX & ATHLETIC FIELD SEED MIX
-  VERTICAL GRANITE CURB
-  SEGMENTAL BLOCK RETAINING WALL
-  4' HT. BLACK VINYL CHAIN LINK (BVCL) FENCE
-  VEHICULAR WOOD GUARDRAIL
-  8' HT. WOOD SLAT SCREEN FENCE
-  SPORTS LIGHTING
-  PEDESTRIAN LIGHTING



Project:
**IMPROVEMENTS TO
 LOKER CONSERVATION
 AND RECREATION AREA**



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 WAYLAND, MA 01778

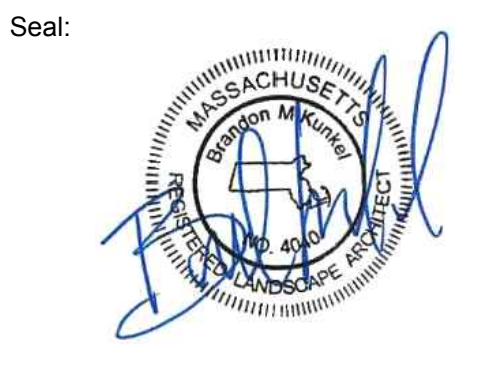
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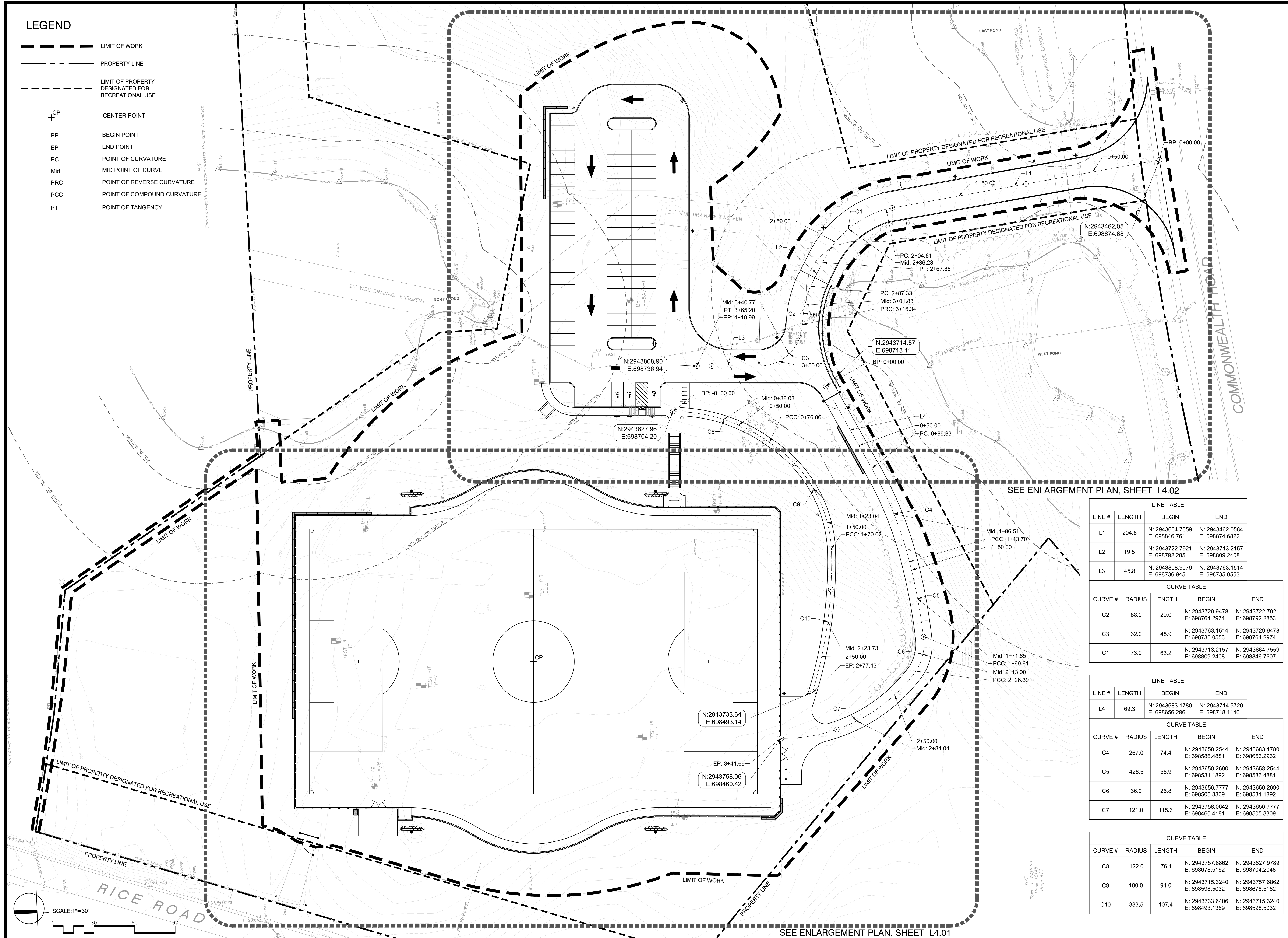
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Drawing Title:
OVERALL SITE PLAN

Sheet Number:
L3.00

LEGEND

- LIMIT OF WORK
- PROPERTY LINE
- LIMIT OF PROPERTY DESIGNATED FOR RECREATIONAL USE
- CENTER POINT
- BEGIN POINT
- END POINT
- POINT OF CURVATURE
- MID POINT OF CURVE
- POINT OF REVERSE CURVATURE
- POINT OF COMPOUND CURVATURE
- POINT OF TANGENCY



SEE ENLARGEMENT PLAN, SHEET L4.02

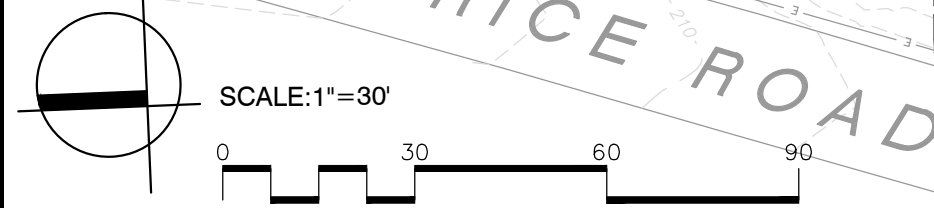
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CURVE TABLE				
CURVE #	RADIUS	LENGTH	BEGIN	END
C2	88.0	29.0	N: 2943729.9478 E: 698764.2974	N: 2943722.7921 E: 698792.2853
C3	32.0	48.9	N: 2943763.1514 E: 698735.0553	N: 2943729.9478 E: 698764.2974
C1	73.0	63.2	N: 2943713.2157 E: 698809.2408	N: 2943664.7559 E: 698846.7607

LINE TABLE			
LINE #	LENGTH	BEGIN	END
L4	69.3	N: 2943683.1780 E: 698656.296	N: 2943714.5720 E: 698718.1140


CURVE TABLE				
CURVE #	RADIUS	LENGTH	BEGIN	END
C4	267.0	74.4	N: 2943658.2544 E: 698586.4881	N: 2943683.1780 E: 698656.2962
C5	426.5	55.9	N: 2943650.2690 E: 698531.1892	N: 2943658.2544 E: 698586.4881
C6	36.0	26.8	N: 2943656.7777 E: 698505.8309	N: 2943650.2690 E: 698531.1892
C7	121.0	115.3	N: 2943758.0642 E: 698460.4181	N: 2943656.7777 E: 698505.8309

CURVE TABLE				
CURVE #	RADIUS	LENGTH	BEGIN	END
C8	122.0	76.1	N: 2943757.6862 E: 698678.5162	N: 2943827.9789 E: 698704.2048
C9	100.0	94.0	N: 2943715.3240 E: 698598.5032	N: 2943757.6862 E: 698678.5162
C10	333.5	107.4	N: 2943733.6406 E: 698493.1369	N: 2943715.3240 E: 698598.5032



SEE ENLARGEMENT PLAN, SHEET L4.01

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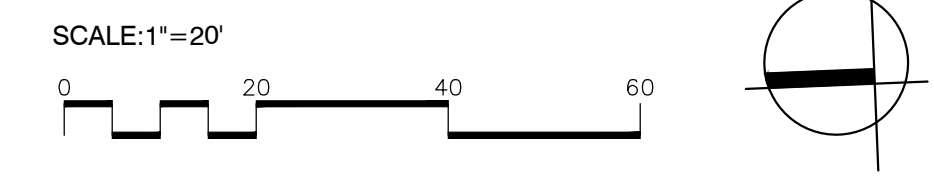
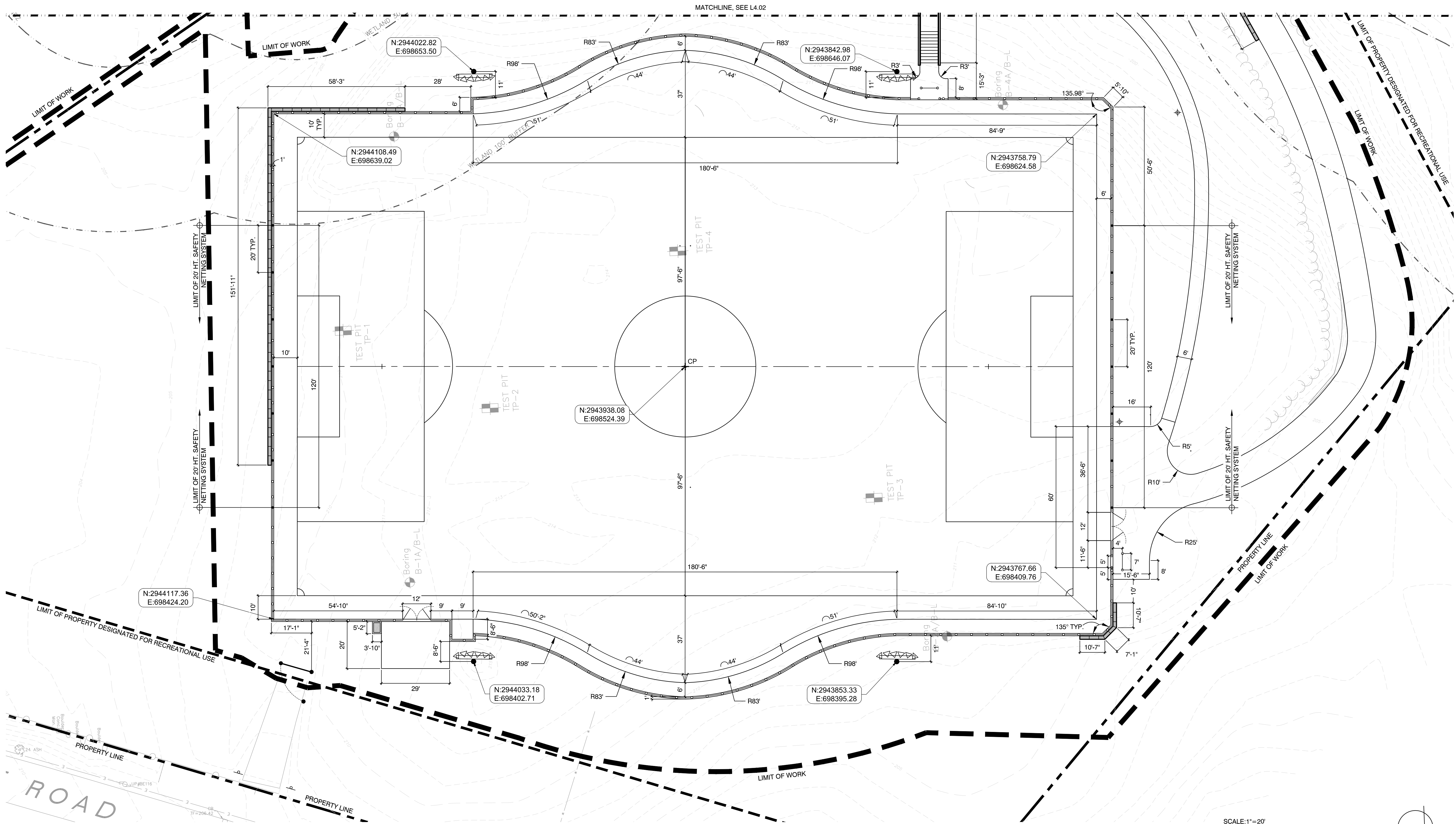
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 W&S File No:

Drawing Title:
**OVERALL
 LAYOUT PLAN**

Sheet Number:
L4.00

LEGEND

- LIMIT OF WORK
- PROPERTY LINE
- LIMIT OF PROPERTY DESIGNATED FOR RECREATIONAL USE
- CENTER POINT
- R3' RADIUS DIMENSION
- 5' TYP. DIMENSION
- 9' TYP. ARC DIMENSION



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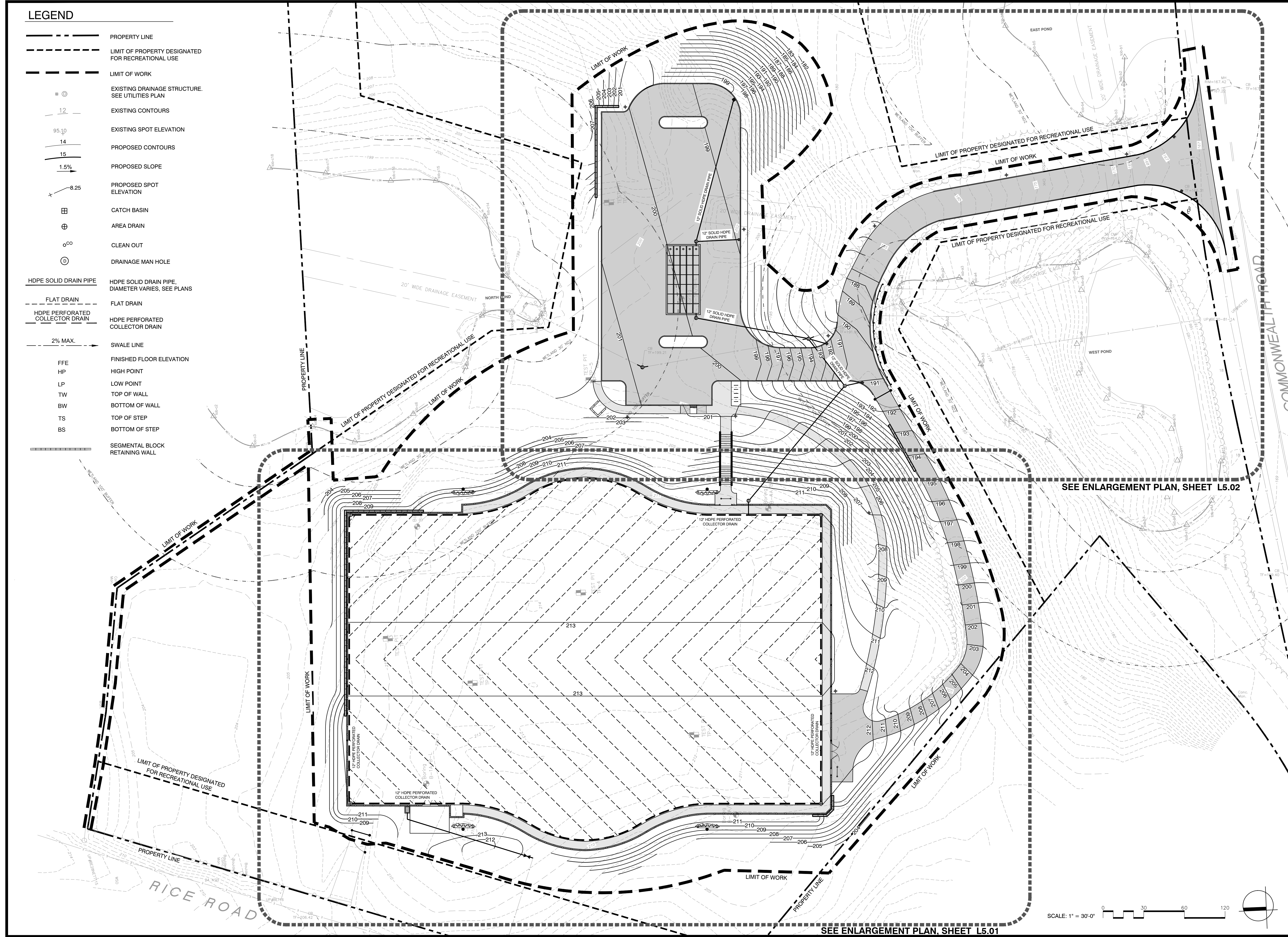
**LAYOUT PLANS
 ENLARGEMENT**

Sheet Number:

L4.01

LEGEND

- PROPERTY LINE
- LIMIT OF PROPERTY DESIGNATED FOR RECREATIONAL USE
- LIMIT OF WORK
- EXISTING DRAINAGE STRUCTURE. SEE UTILITIES PLAN
- EXISTING CONTOURS
- EXISTING SPOT ELEVATION
- PROPOSED CONTOURS
- PROPOSED SLOPE
- PROPOSED SPOT ELEVATION
- CATCH BASIN
- AREA DRAIN
- CLEAN OUT
- DRAINAGE MAN HOLE
- HDPE SOLID DRAIN PIPE
- FLAT DRAIN
- HDPE PERFORATED COLLECTOR DRAIN
- SWALE LINE
- FFE FINISHED FLOOR ELEVATION
- HP HIGH POINT
- LP LOW POINT
- TW TOP OF WALL
- BW BOTTOM OF WALL
- TS TOP OF STEP
- BS BOTTOM OF STEP
- SEGMENTAL BLOCK RETAINING WALL



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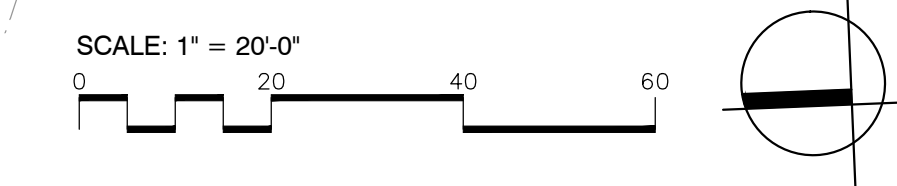
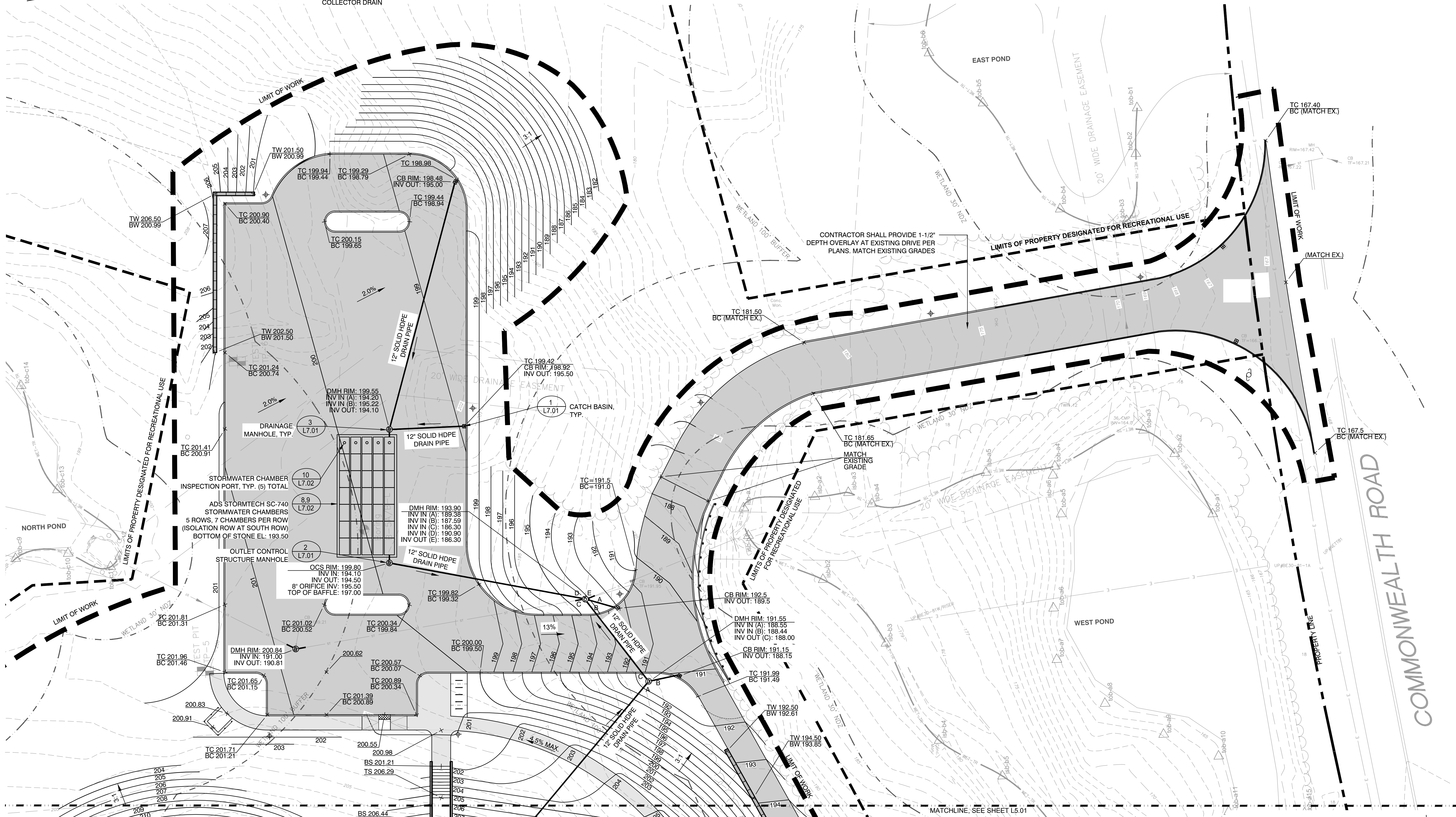
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Drawing Title:
**OVERALL GRADING,
 DRAINAGE & UTILITY
 PLAN**

Sheet Number:
L5.00

LEGEND

	PROPERTY LINE		2% MAX. SWALE LINE	FFE	FINISHED FLOOR ELEVATION
	LIMIT OF PROPERTY DESIGNATED FOR RECREATIONAL USE		1.5% PROPOSED SLOPE	HP	HIGH POINT
	LIMIT OF WORK		8.25 PROPOSED SPOT ELEVATION	LP	LOW POINT
	MATCHLINE		CATCH BASIN	TW	TOP OF WALL
	EXISTING DRAINAGE STRUCTURE. SEE UTILITIES PLAN		PVC AREA DRAIN	BW	BOTTOM OF WALL
	EXISTING CONTOURS		DRAINAGE MAN HOLE	TS	TOP OF STEP
	EXISTING SPOT ELEVATION		HDPE SOLID DRAIN PIPE	BS	BOTTOM OF STEP
	EXISTING CONTOURS		HDPE SOLID DRAIN PIPE, DIAMETER VARIES		
	EXISTING SPOT ELEVATION		FLAT DRAIN		
	PROPOSED CONTOURS		HDPE PERFORATED COLLECTOR DRAIN		
			HDPE PERFORATED COLLECTOR DRAIN		



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Drawing Title:
GRADING, DRAINAGE & UTILITY ENLARGEMENT PLAN

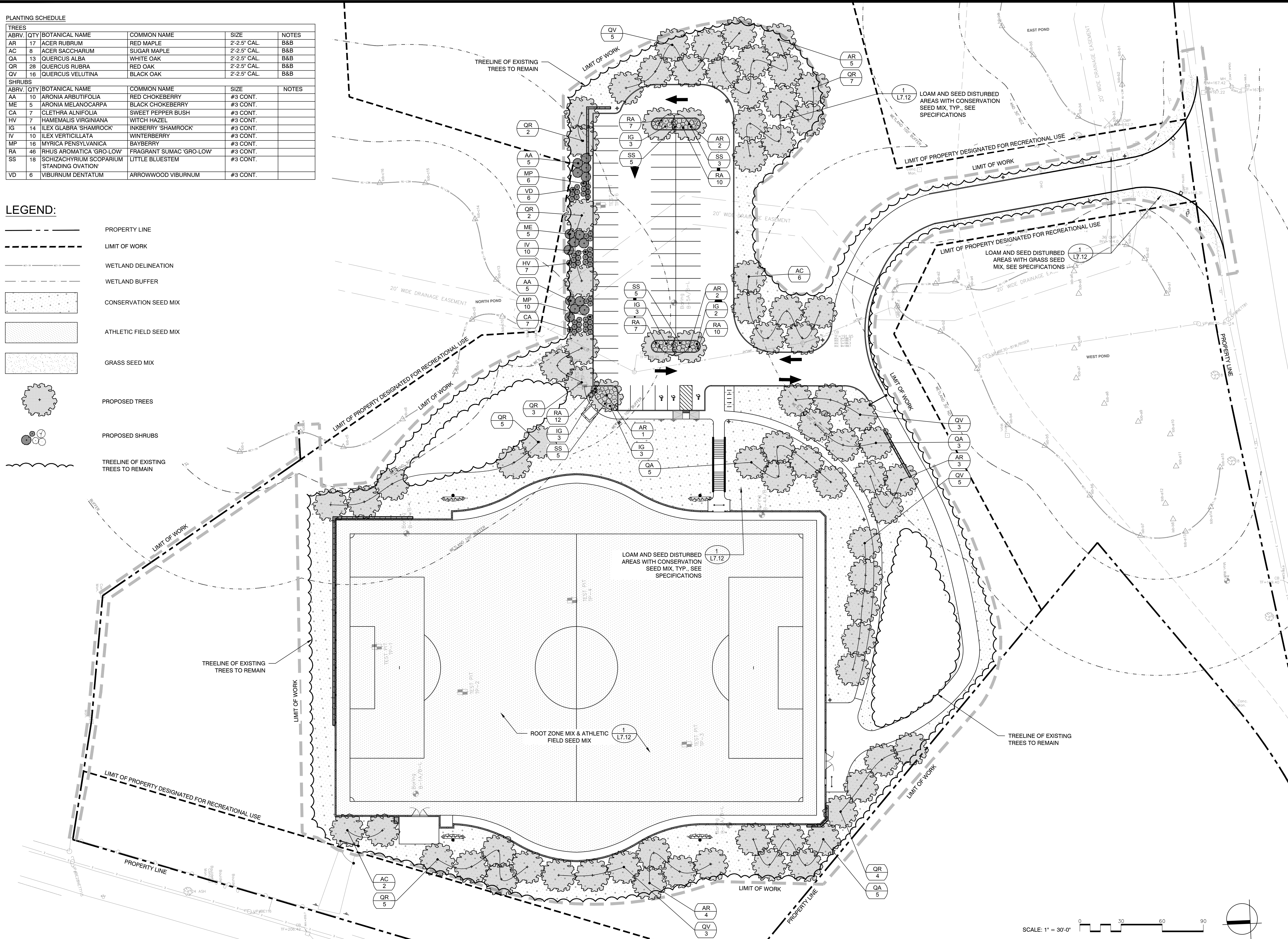
Sheet Number:
L5.02

PLANTING SCHEDULE

TREES					
ABRV.	QTY	BOTANICAL NAME	COMMON NAME	SIZE	NOTES
AR	17	ACER RUBRUM	RED MAPLE	2'-2.5' CAL.	B&B
AC	8	ACER SACCHARUM	SUGAR MAPLE	2'-2.5' CAL.	B&B
QA	13	QUERCUS ALBA	WHITE OAK	2'-2.5' CAL.	B&B
QR	28	QUERCUS RUBRA	RED OAK	2'-2.5' CAL.	B&B
QV	16	QUERCUS VELUTINA	BLACK OAK	2'-2.5' CAL.	B&B
SHRUBS					
ABRV.	QTY	BOTANICAL NAME	COMMON NAME	SIZE	NOTES
AA	10	ARONIA ARBUTIFOLIA	RED CHOKEBERRY	#3 CONT.	
ME	5	ARONIA MELANOCARPA	BLACK CHOKEBERRY	#3 CONT.	
CA	7	CLETHRA ALNIFOLIA	SWEET PEPPER BUSH	#3 CONT.	
HV	7	HAMEMALIS VIRGINIANA	WITCH HAZEL	#3 CONT.	
IG	14	ILEX GLABRA 'SHAMROCK'	INKBERRY 'SHAMROCK'	#3 CONT.	
IV	10	ILEX VERTICILLATA	WINTERBERRY	#3 CONT.	
MP	16	MYRICA PENNSYLVANICA	BAYBERRY	#3 CONT.	
RA	46	RHUS AROMATICA 'GRO-LOW'	FRAGRANT SUMAC 'GRO-LOW'	#3 CONT.	
SS	18	SCHIZACHYRIUM SCOPARIUM 'STANDING OVATION'	LITTLE BLUESTEM	#3 CONT.	
VD	6	VIBURNUM DENTATUM	ARROWWOOD VIBURNUM	#3 CONT.	

LEGEND:

- PROPERTY LINE
- LIMIT OF WORK
- WETLAND DELINEATION
- WETLAND BUFFER
- CONSERVATION SEED MIX
- ATHLETIC FIELD SEED MIX
- GRASS SEED MIX
- PROPOSED TREES
- PROPOSED SHRUBS
- TREELINE OF EXISTING TREES TO REMAIN



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OVERALL PLANTING PLAN

Sheet Number:
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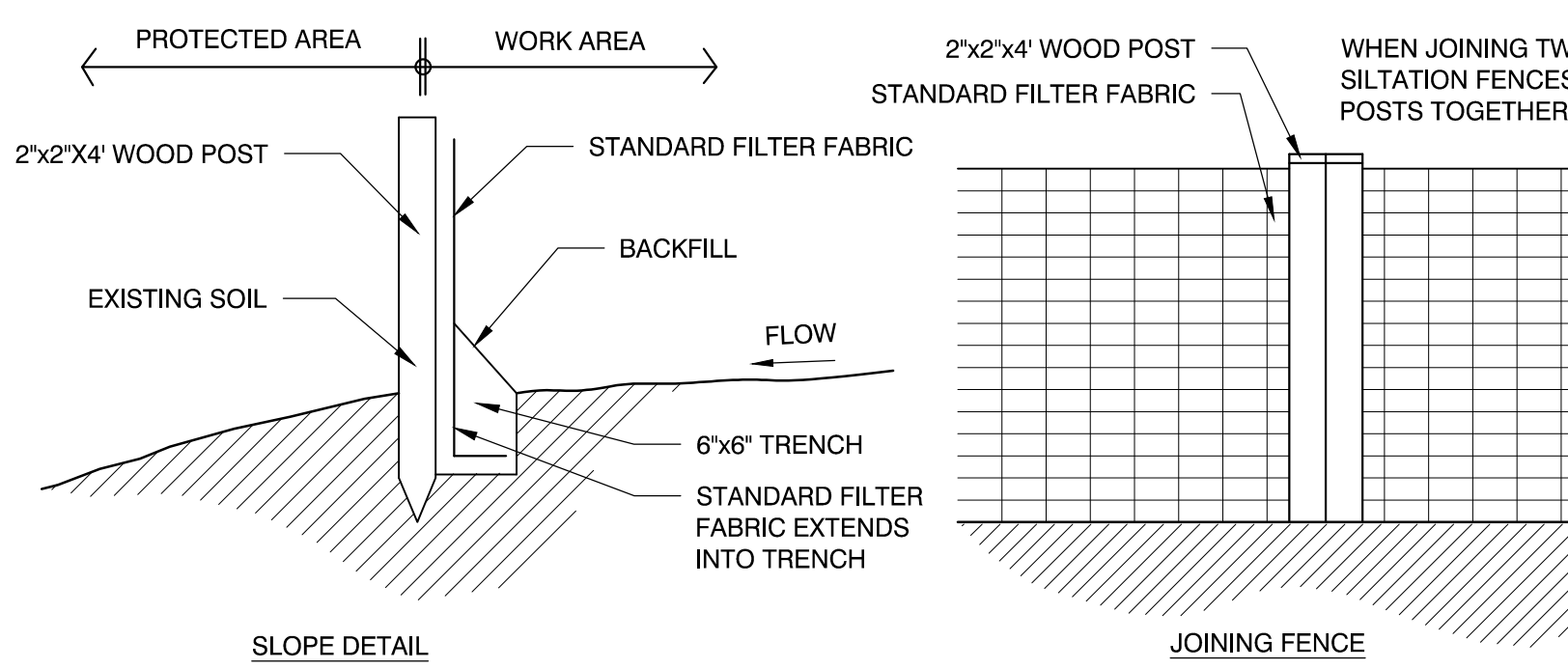
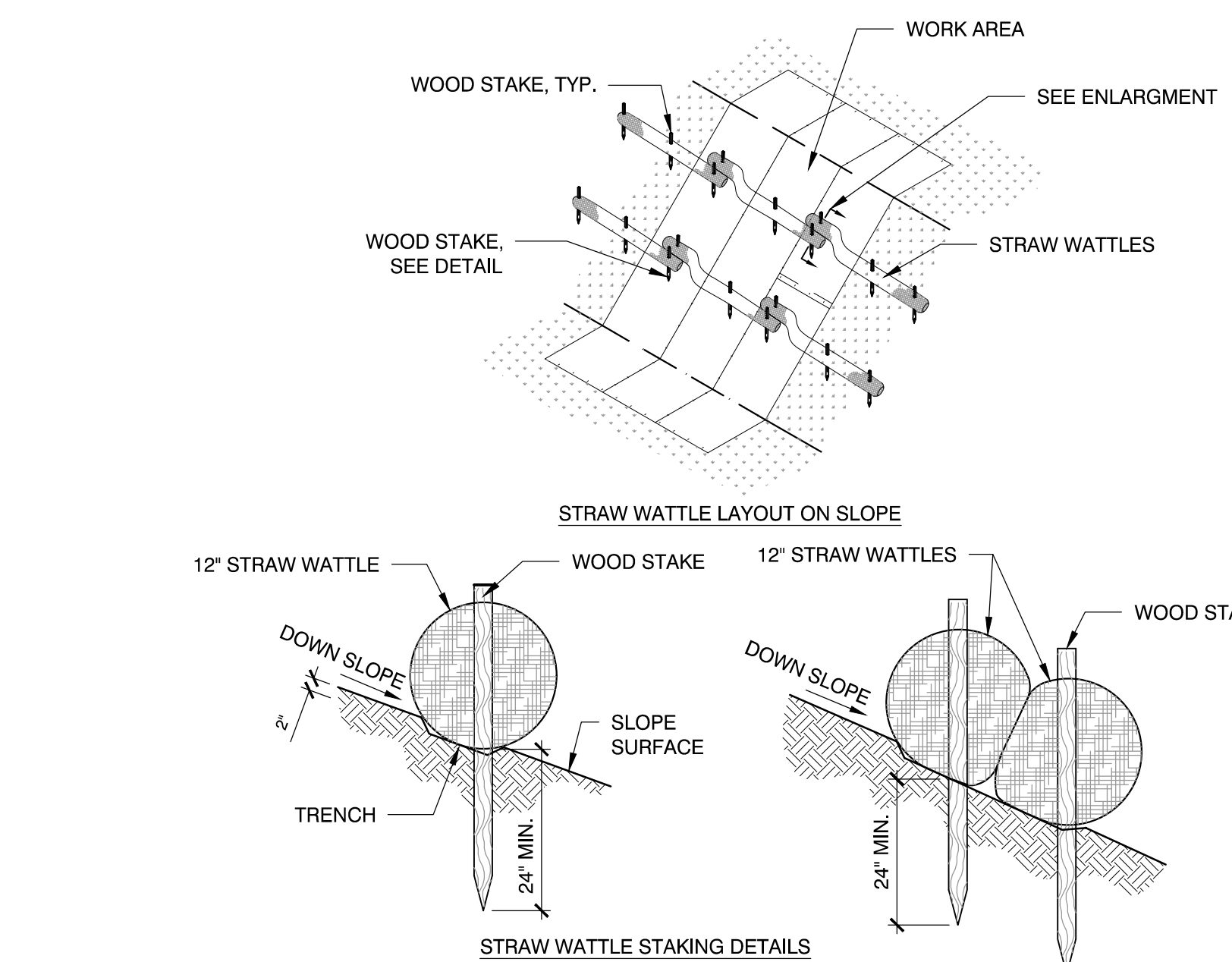


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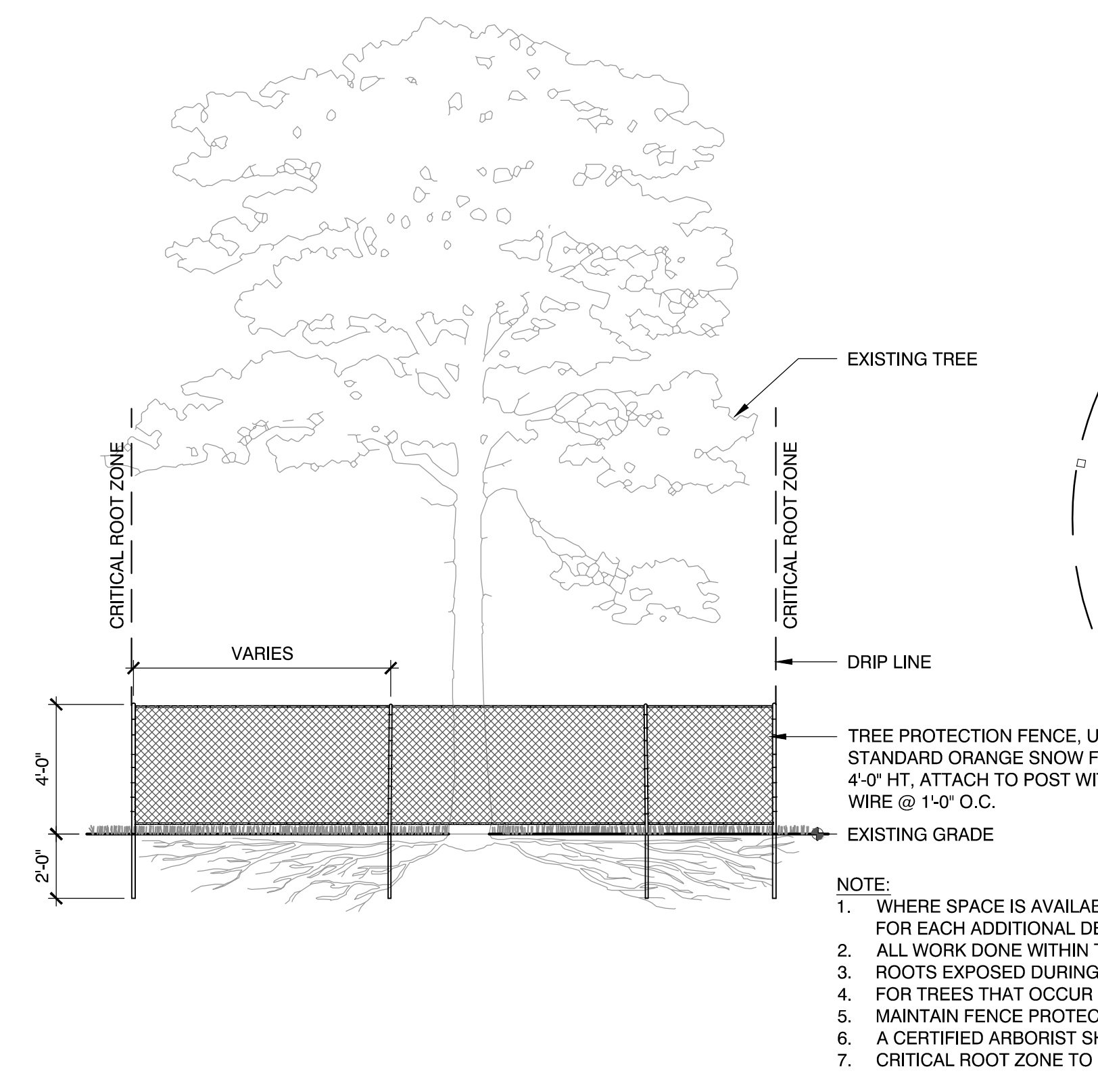
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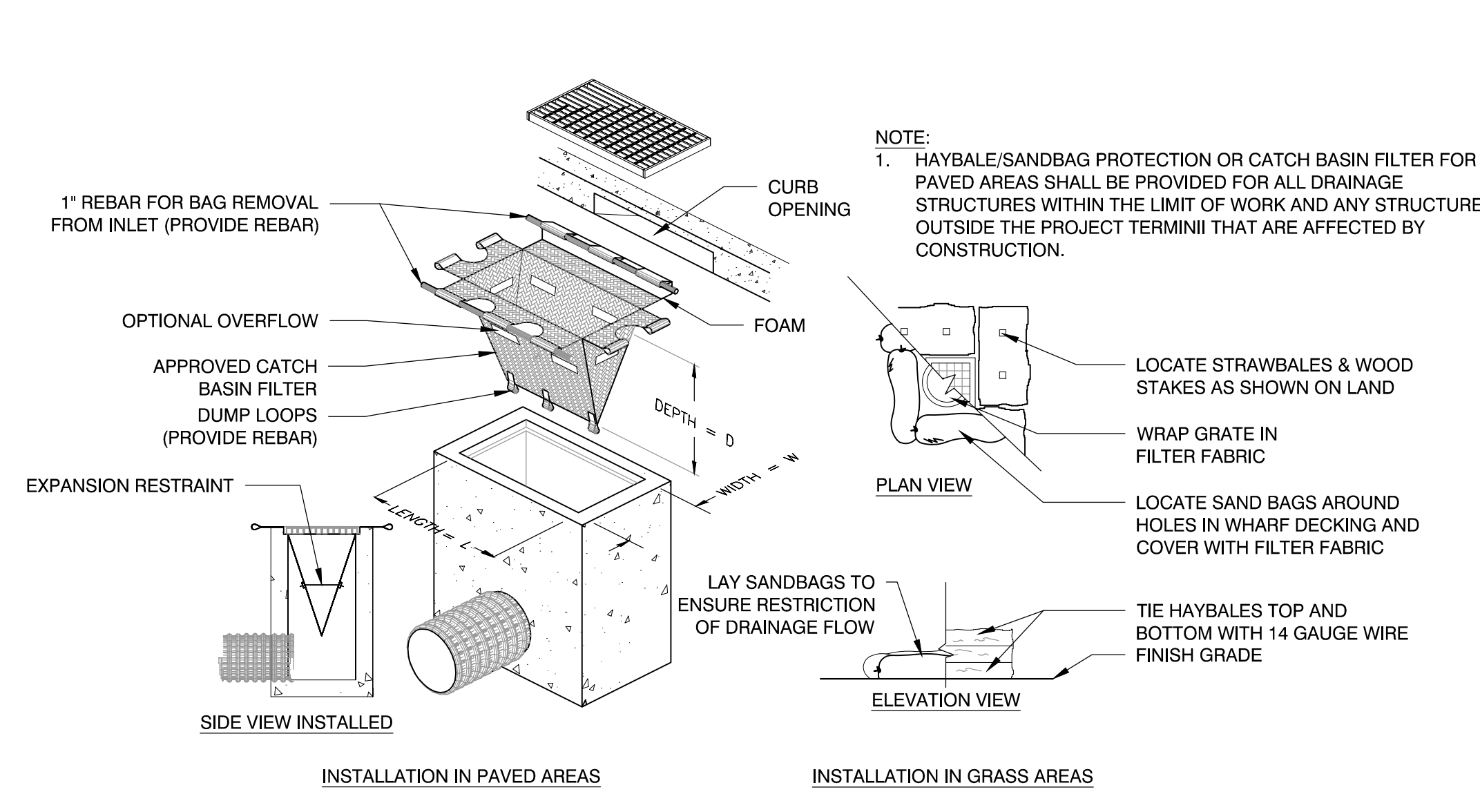
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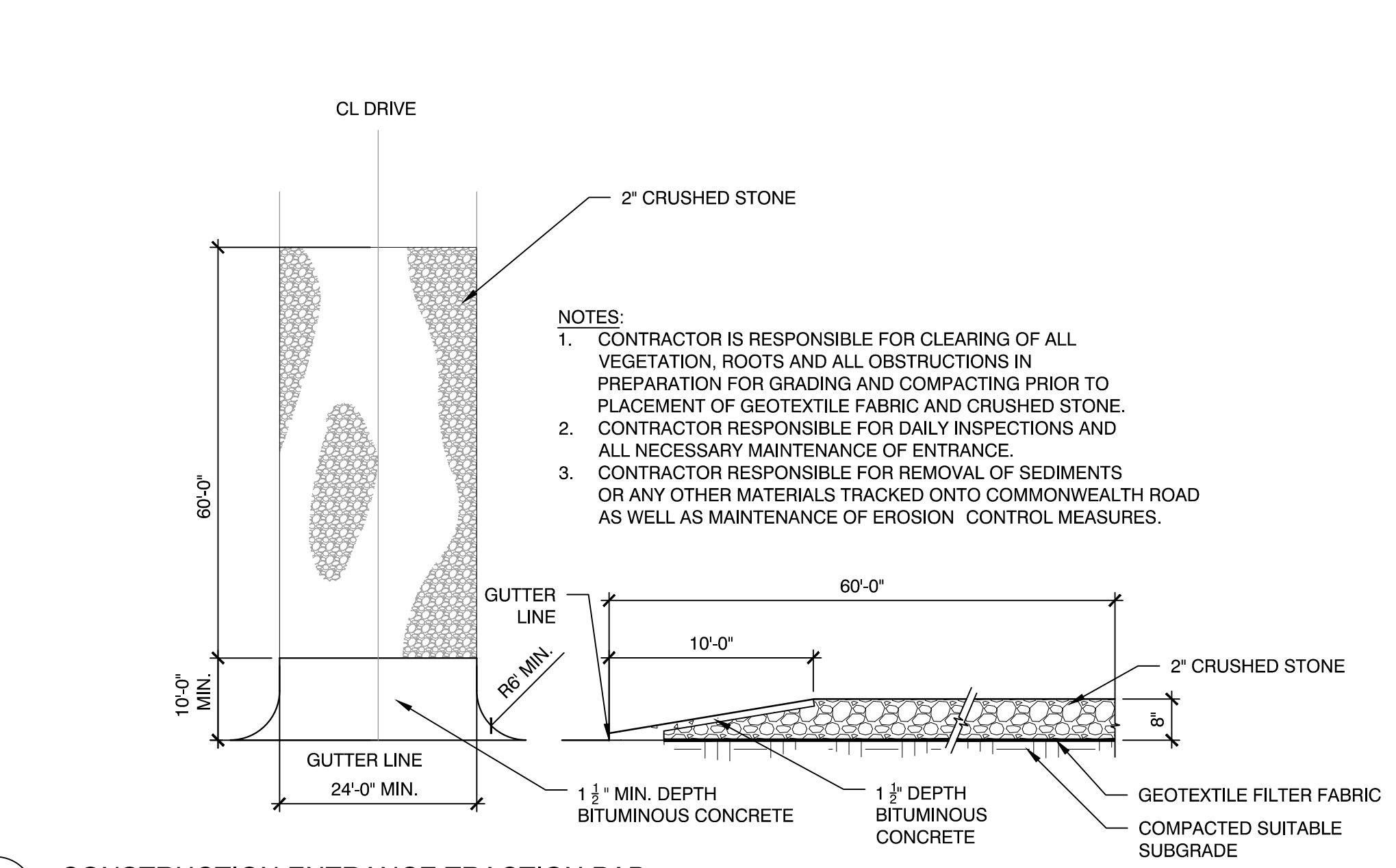
1 EROSION AND SEDIMENT CONTROL
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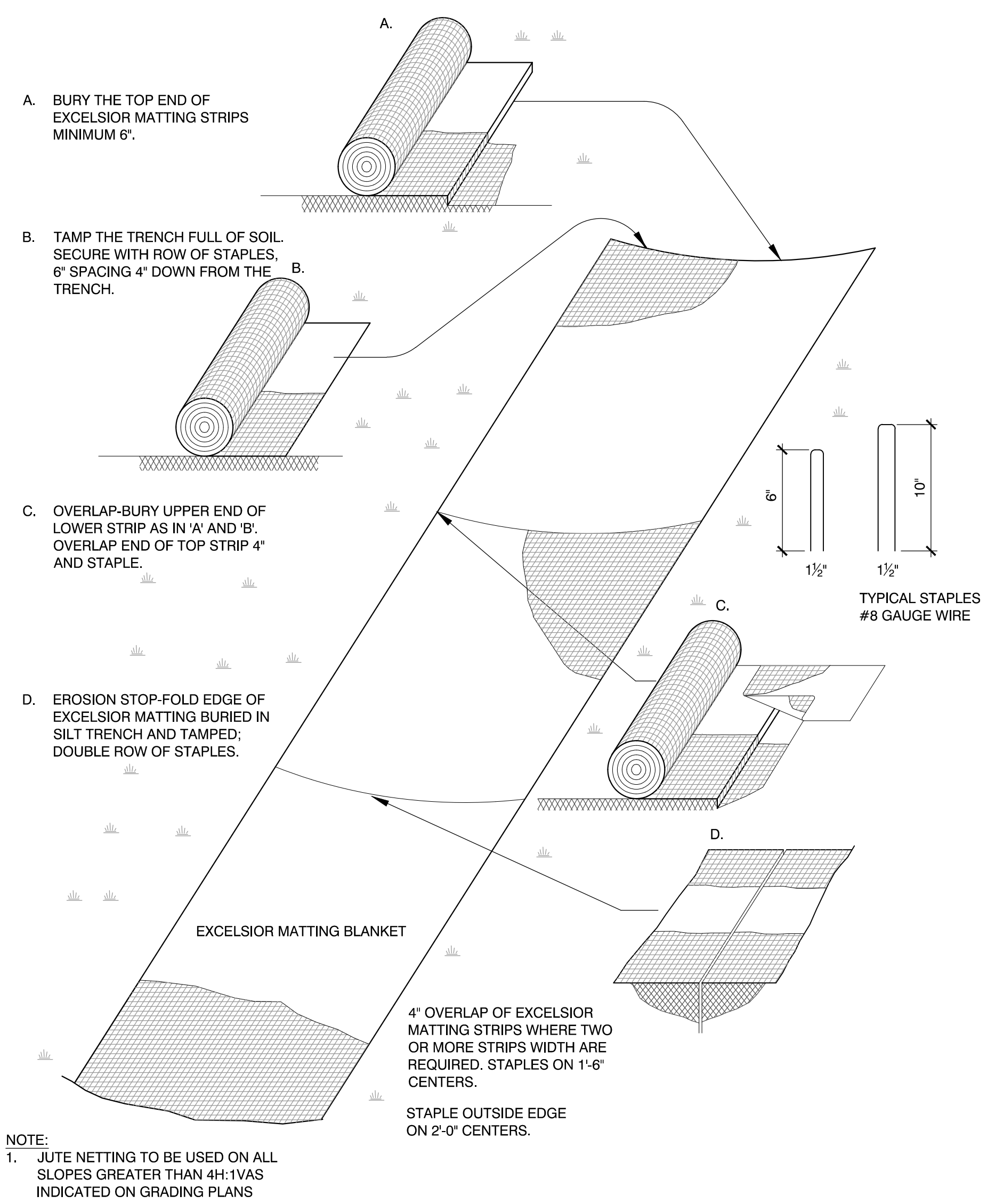
2 TREE PROTECTION
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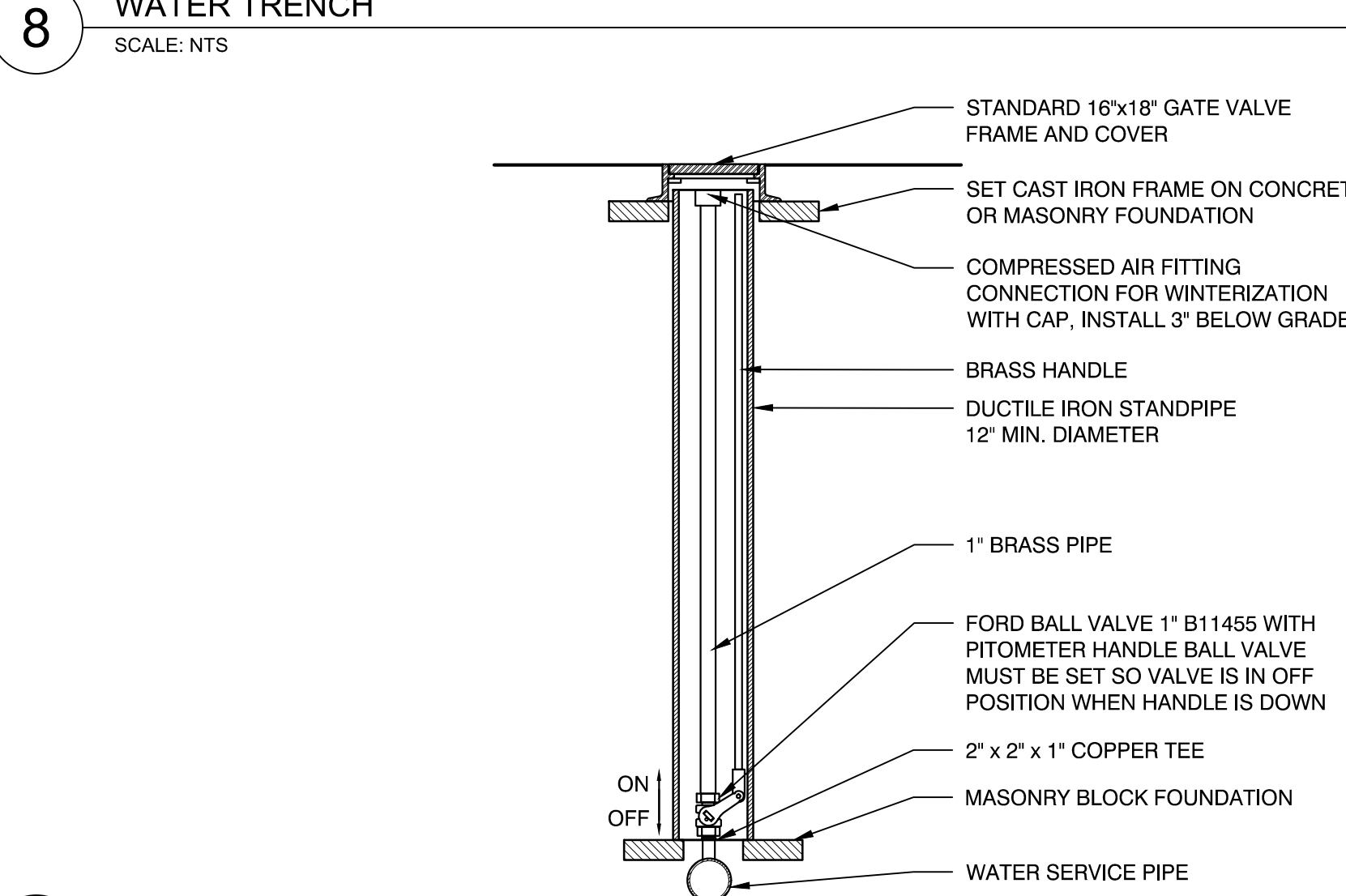
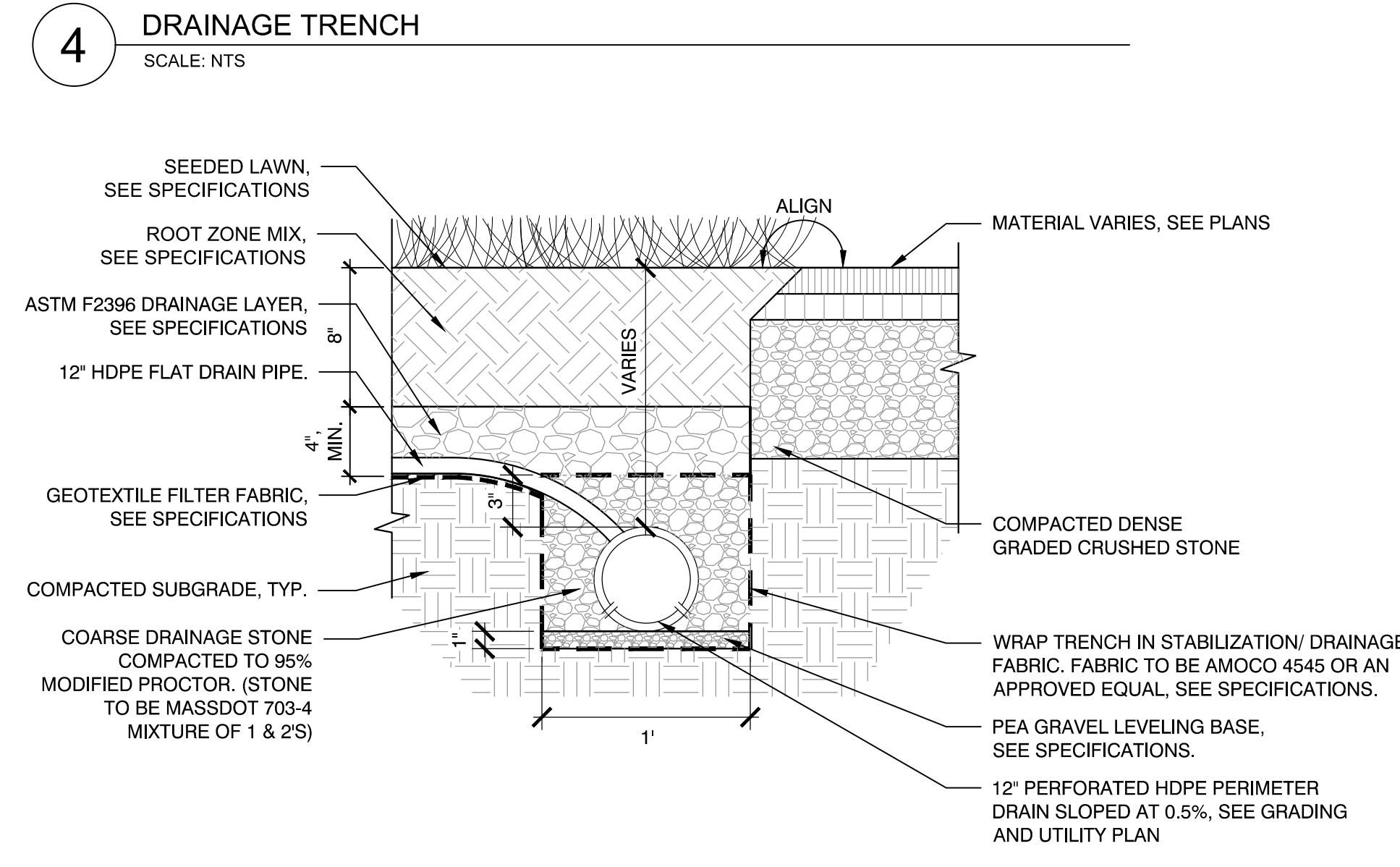
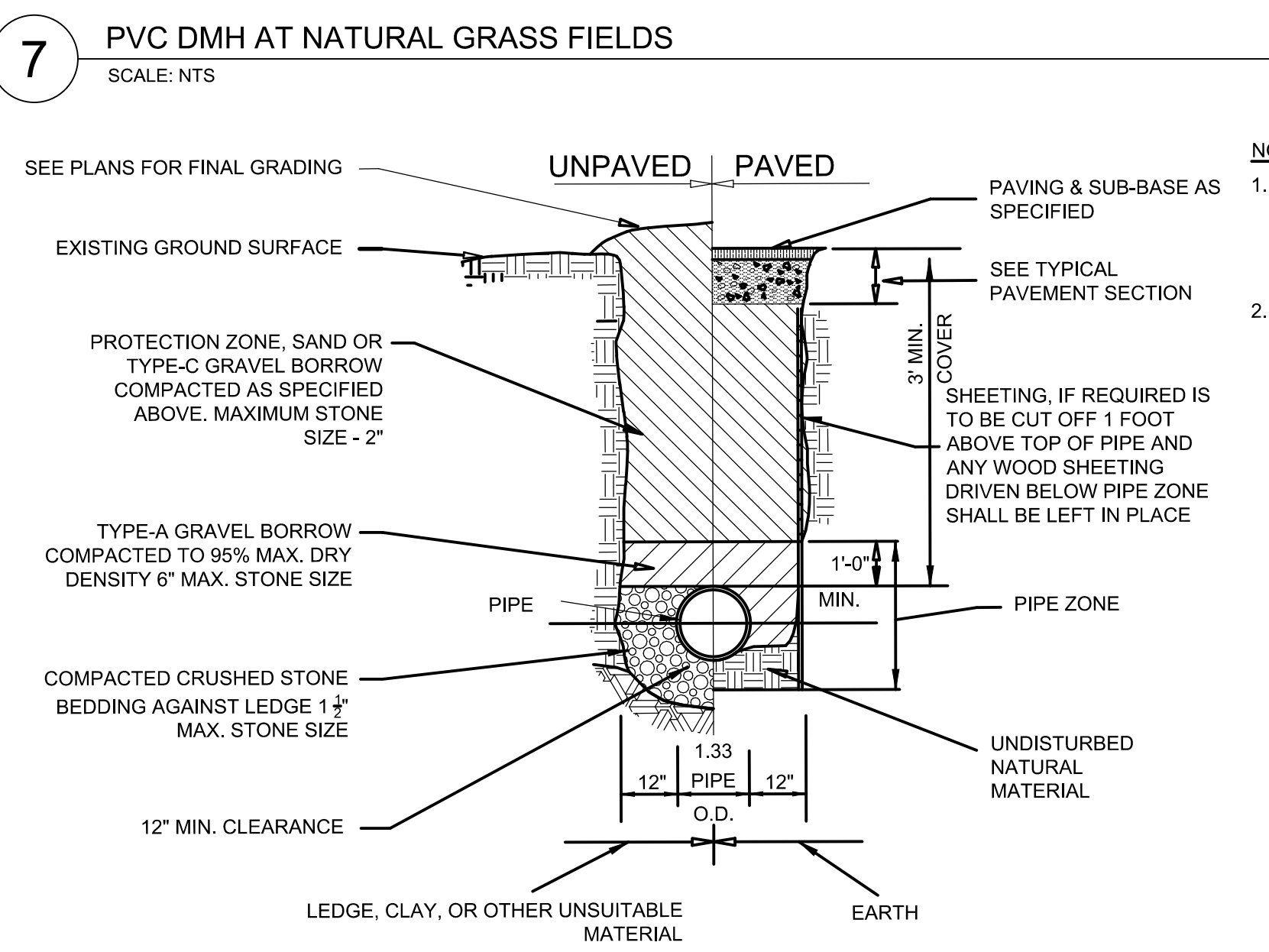
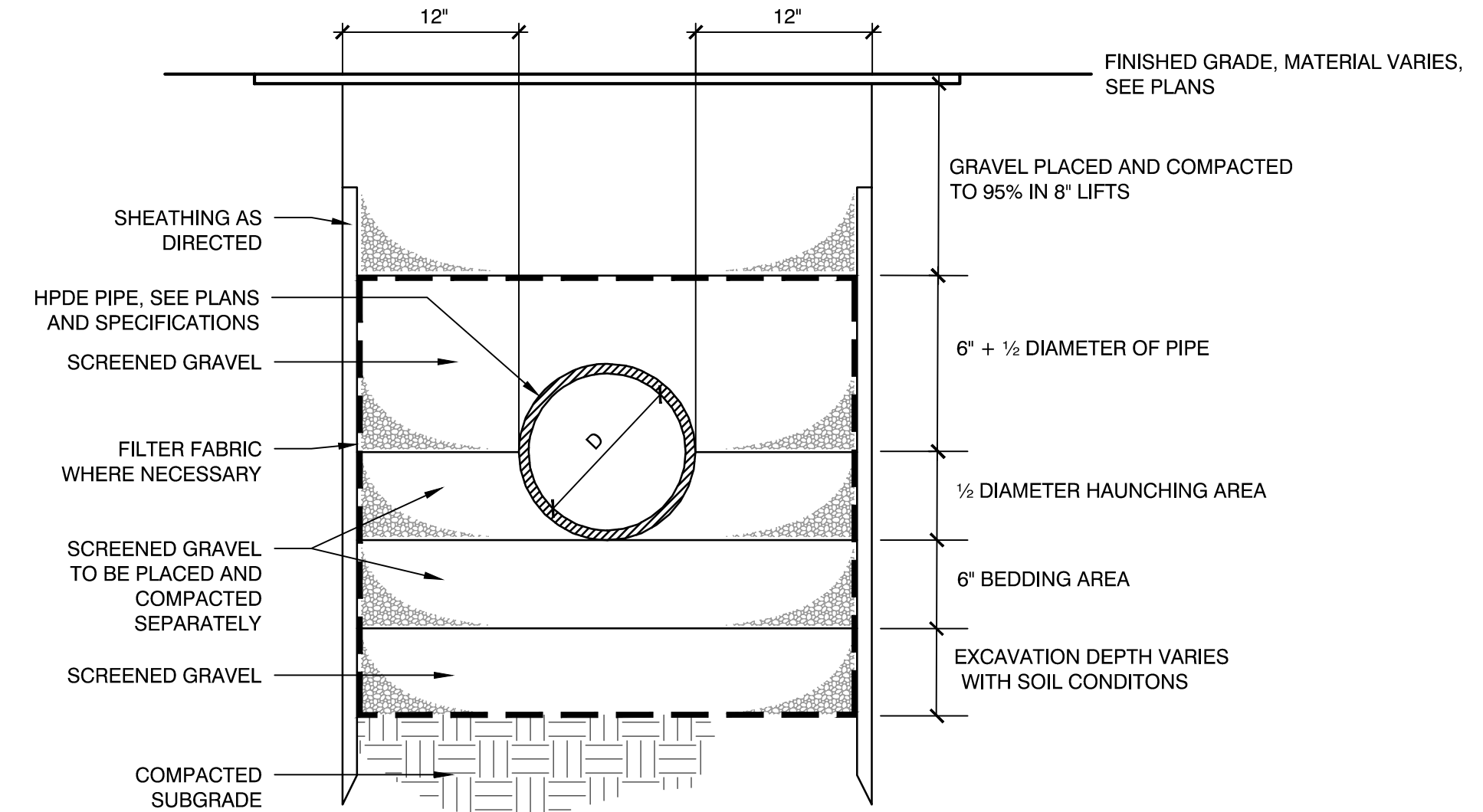
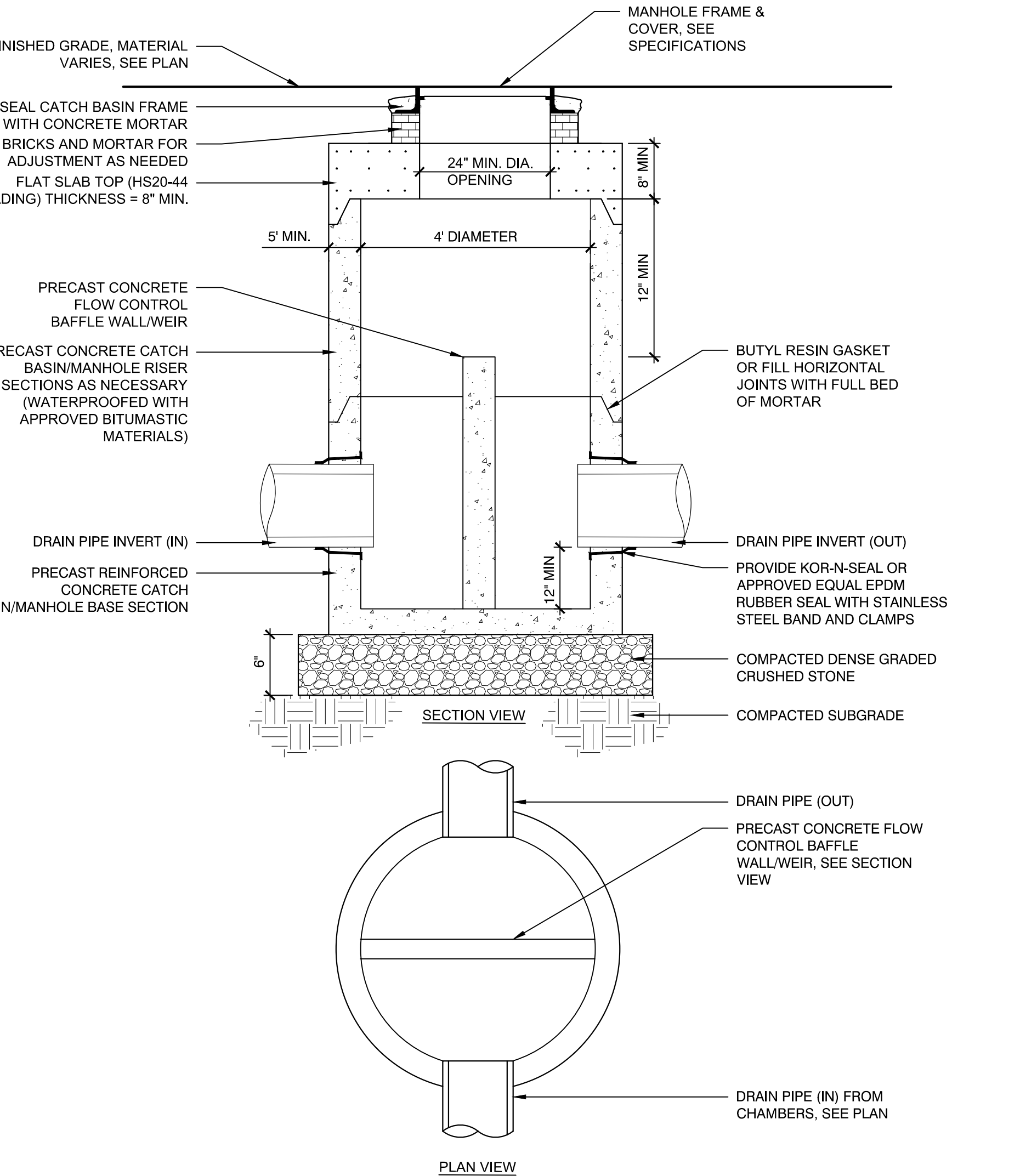
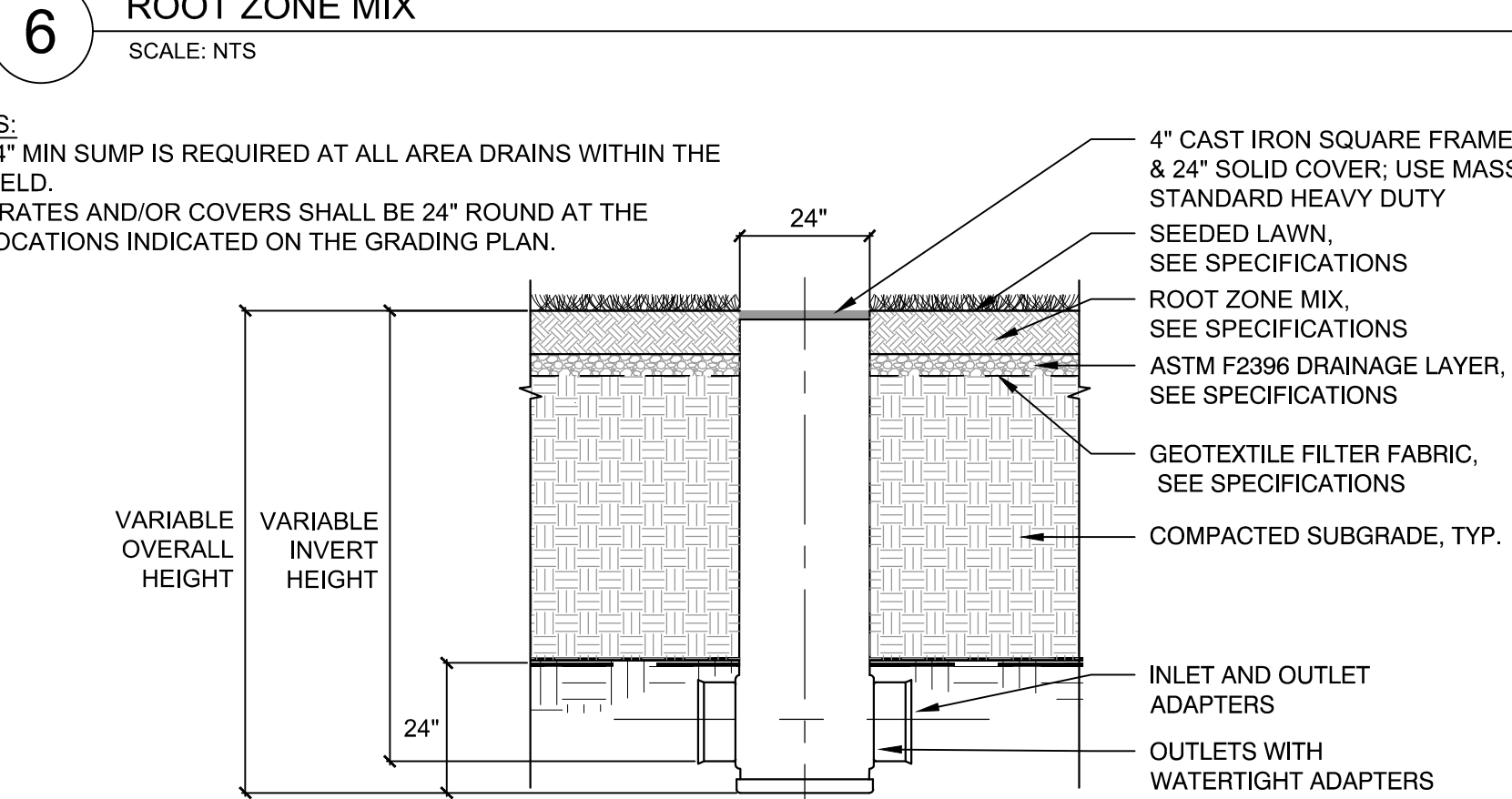
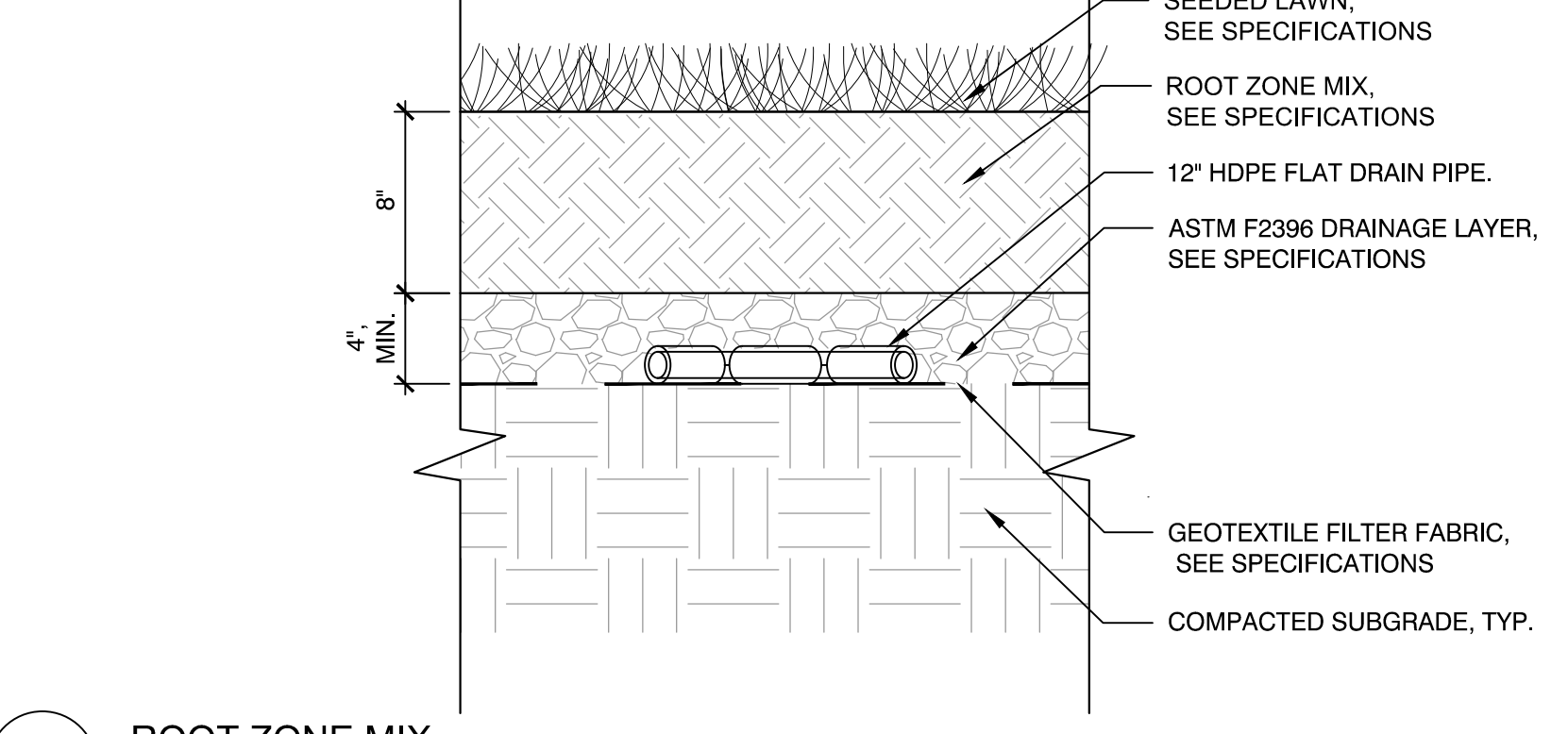
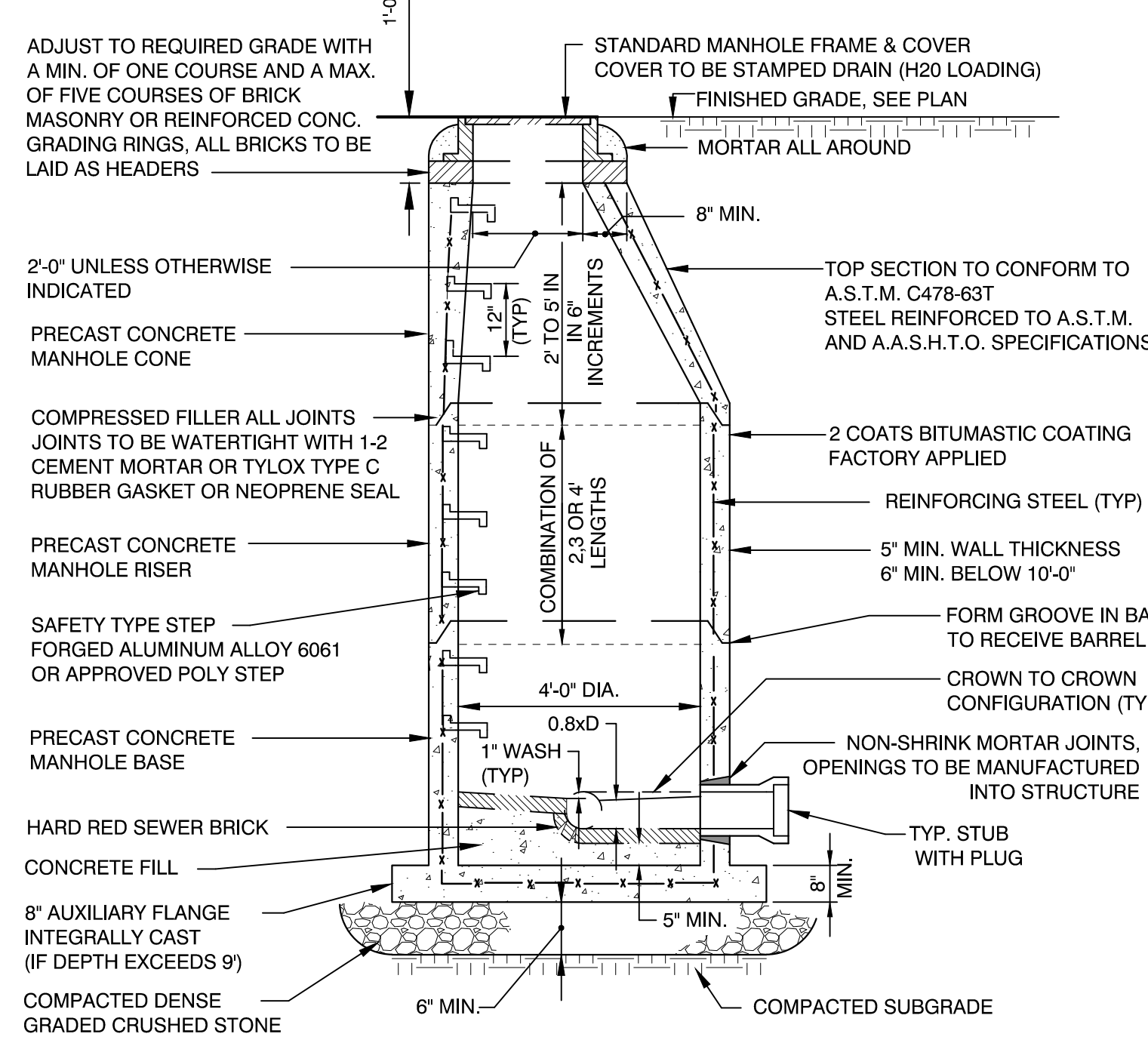
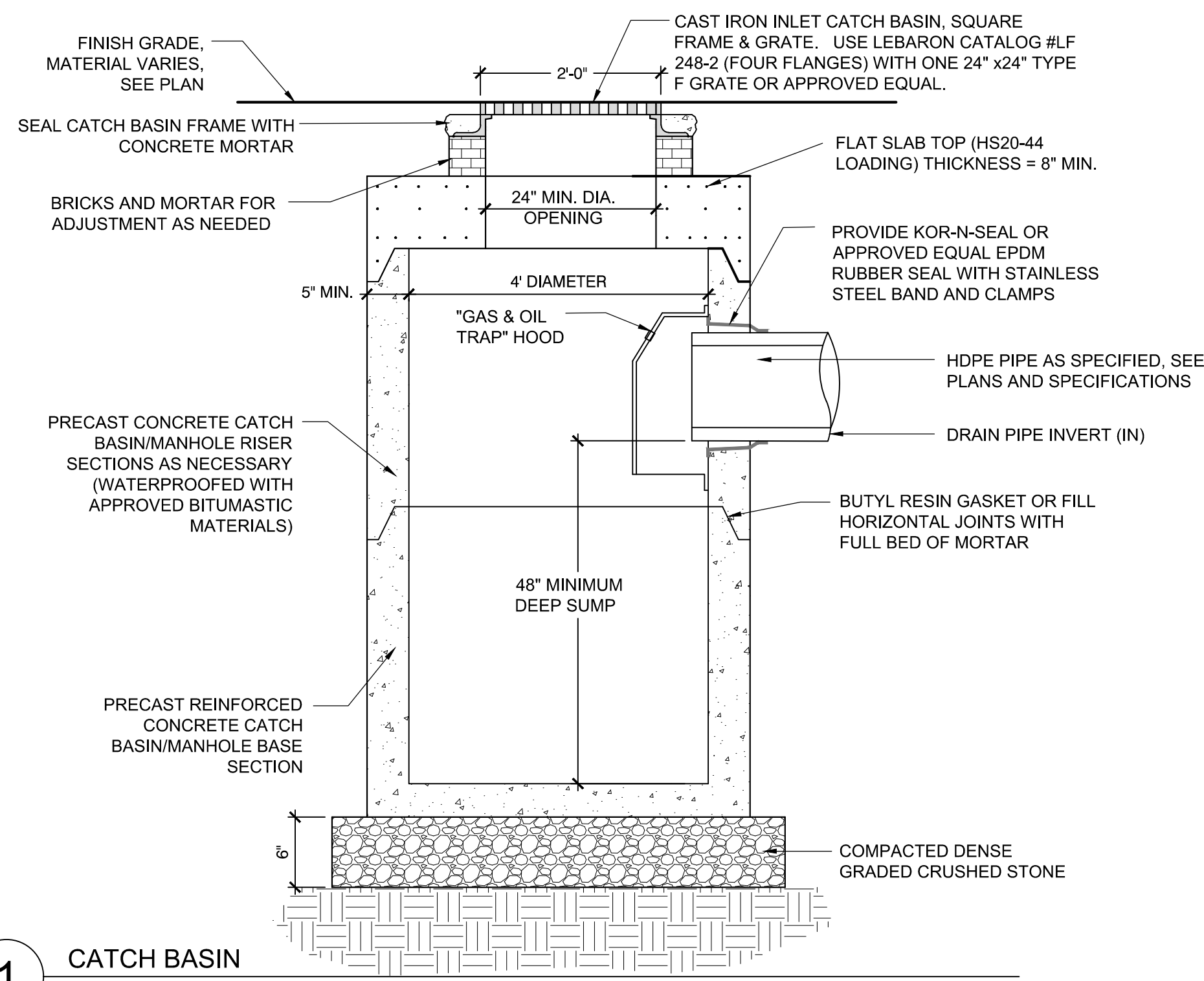
3 INLET SEDIMENT CONTROL
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4 CONSTRUCTION ENTRANCE TRACTION PAD
 SCALE: NTS



5 EROSION CONTROL BLANKET
 SCALE: NTS



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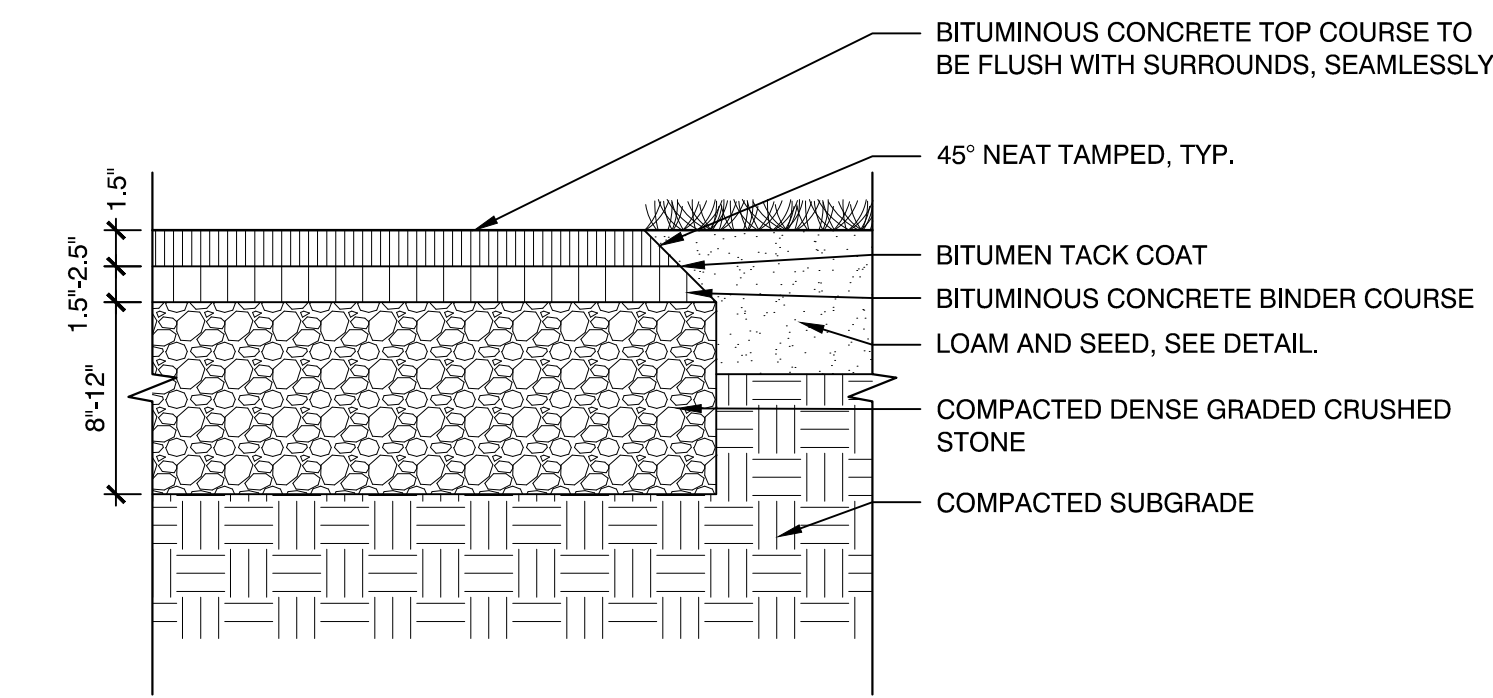


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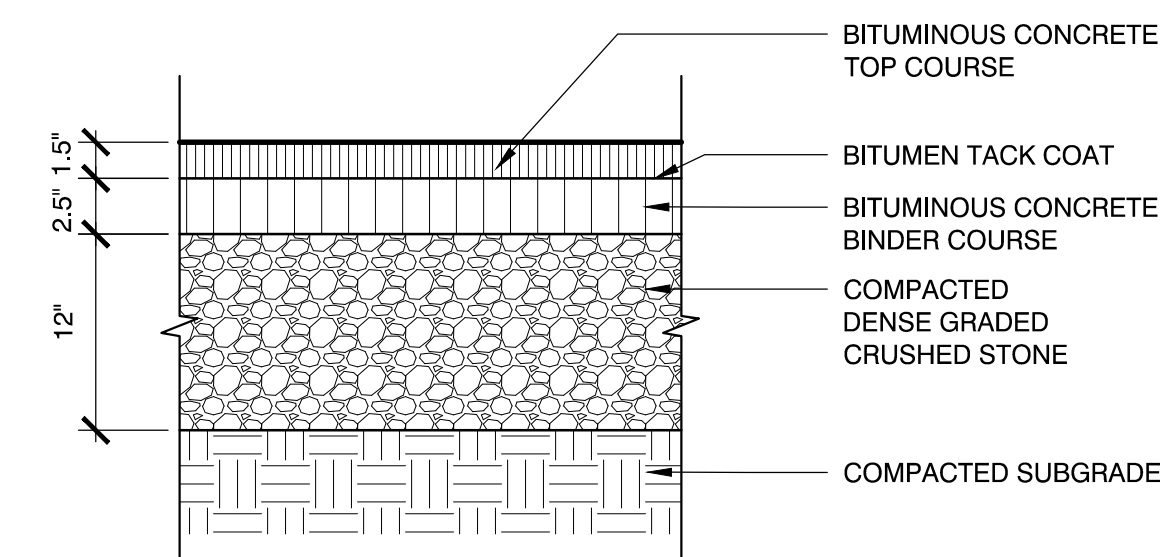
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DETAILS**
Sheet Number:
L7.01

1 BITUMINOUS CONCRETE AT LAWN
SCALE: NTS



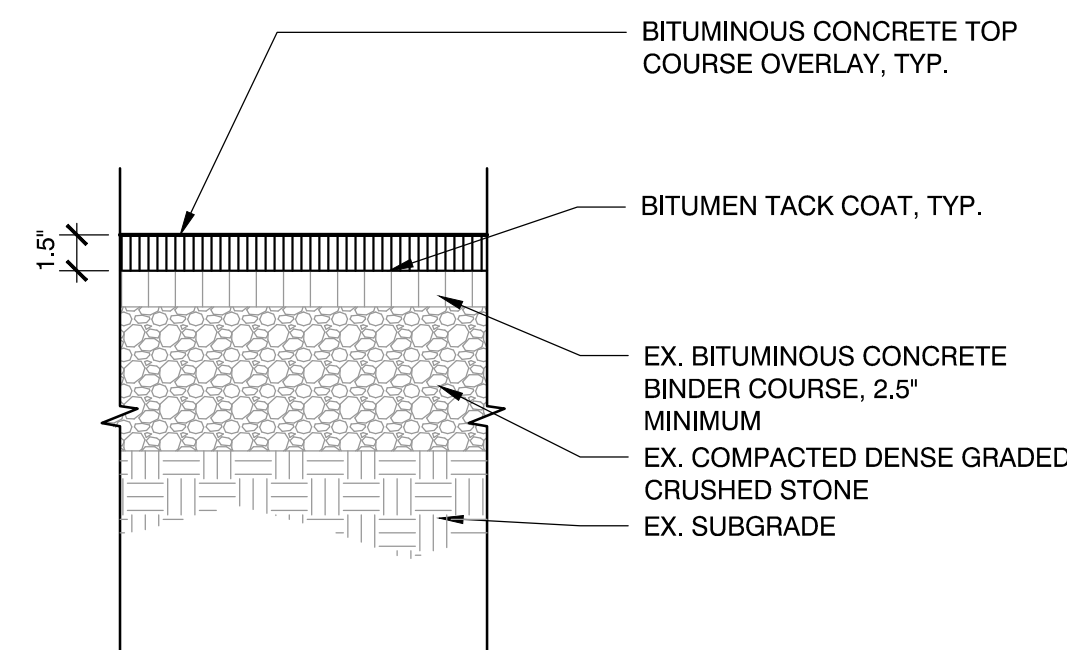
NOTES:
1. CONTRACTOR TO PROVIDE SMOOTH TRANSITION WHERE NEW PAVEMENT ABUTS EXISTING PAVEMENT.

2 PEDESTRIAN BITUMINOUS CONCRETE PAVEMENT
SCALE: NTS



NOTES:
1. CONTRACTOR TO PROVIDE SMOOTH TRANSITION WHERE NEW PAVEMENT ABUTS EXISTING PAVEMENT, TYP.

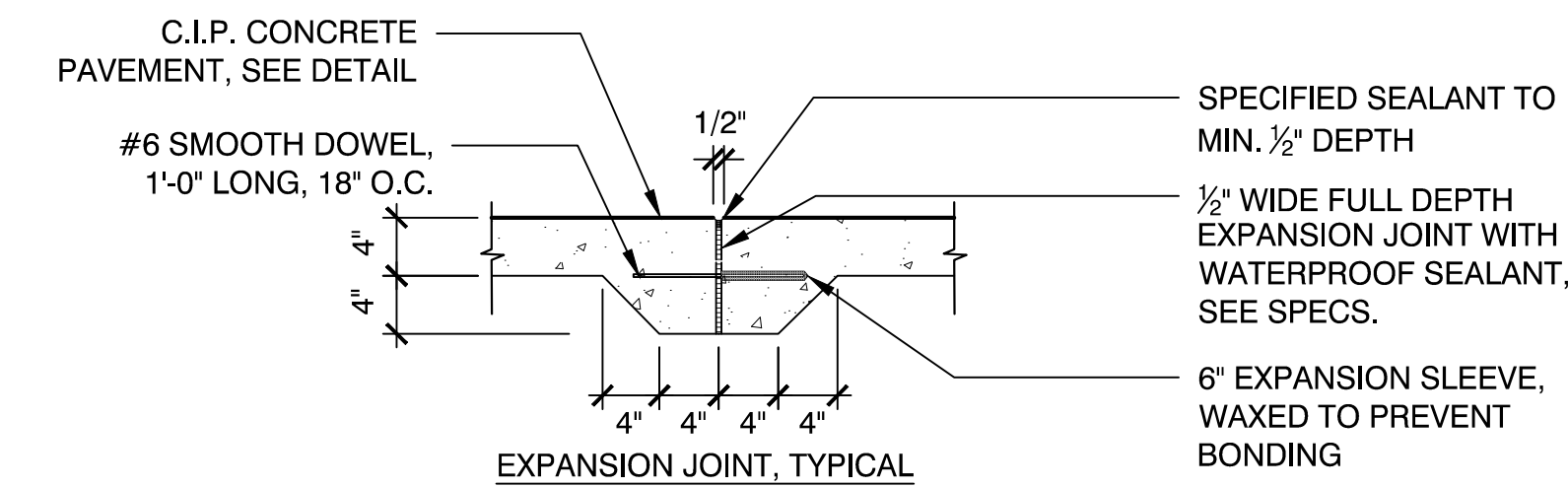
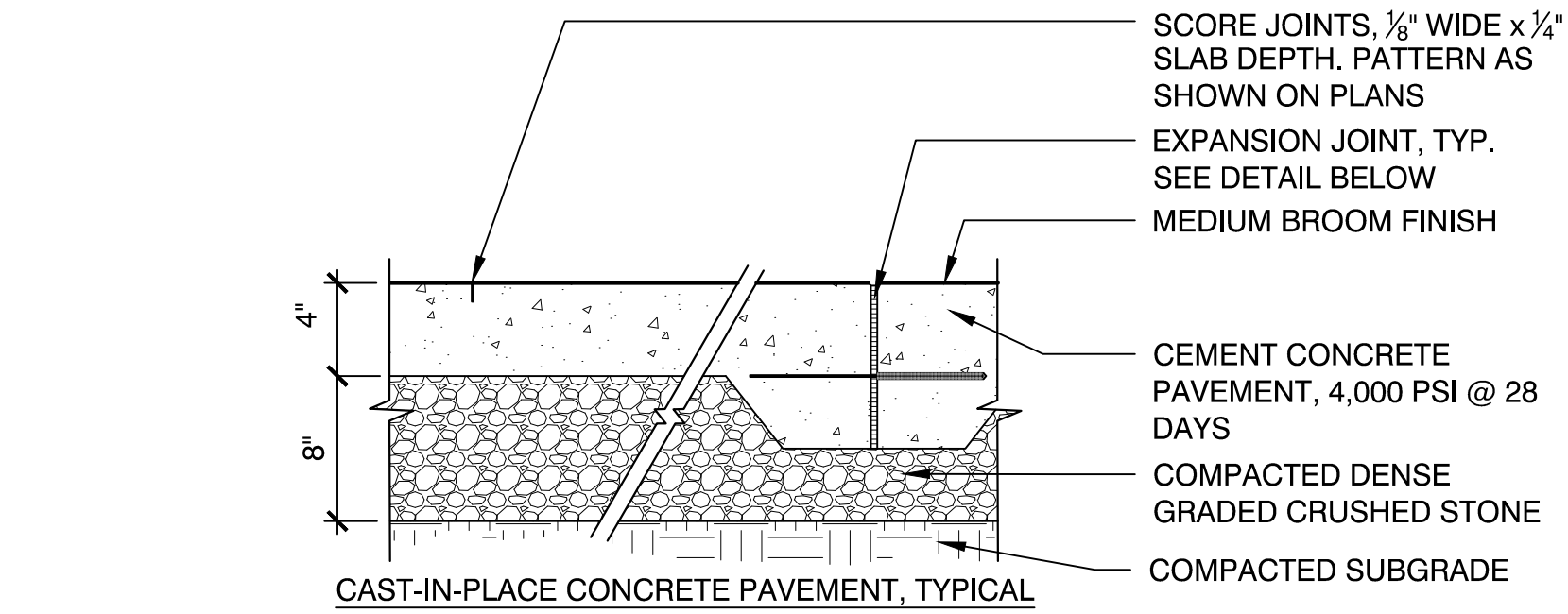
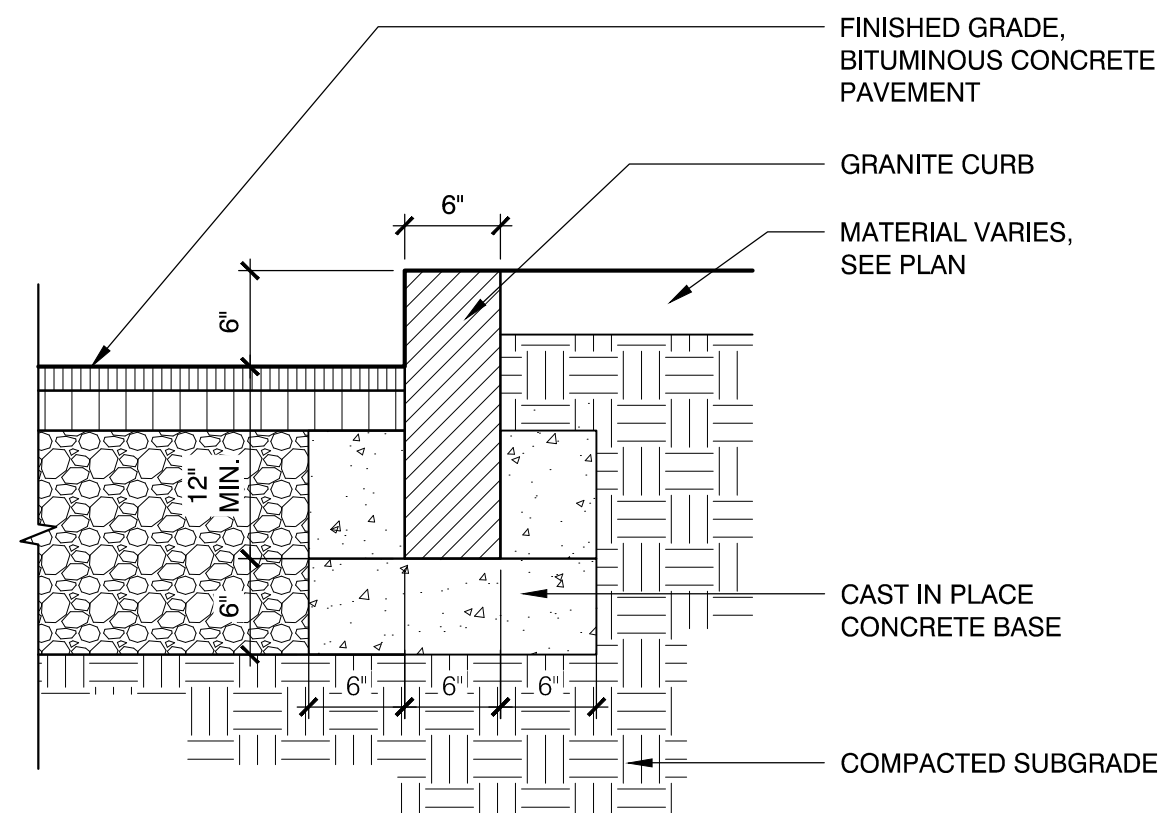
3 VEHICULAR BITUMINOUS CONCRETE PAVEMENT
SCALE: NTS



NOTES:
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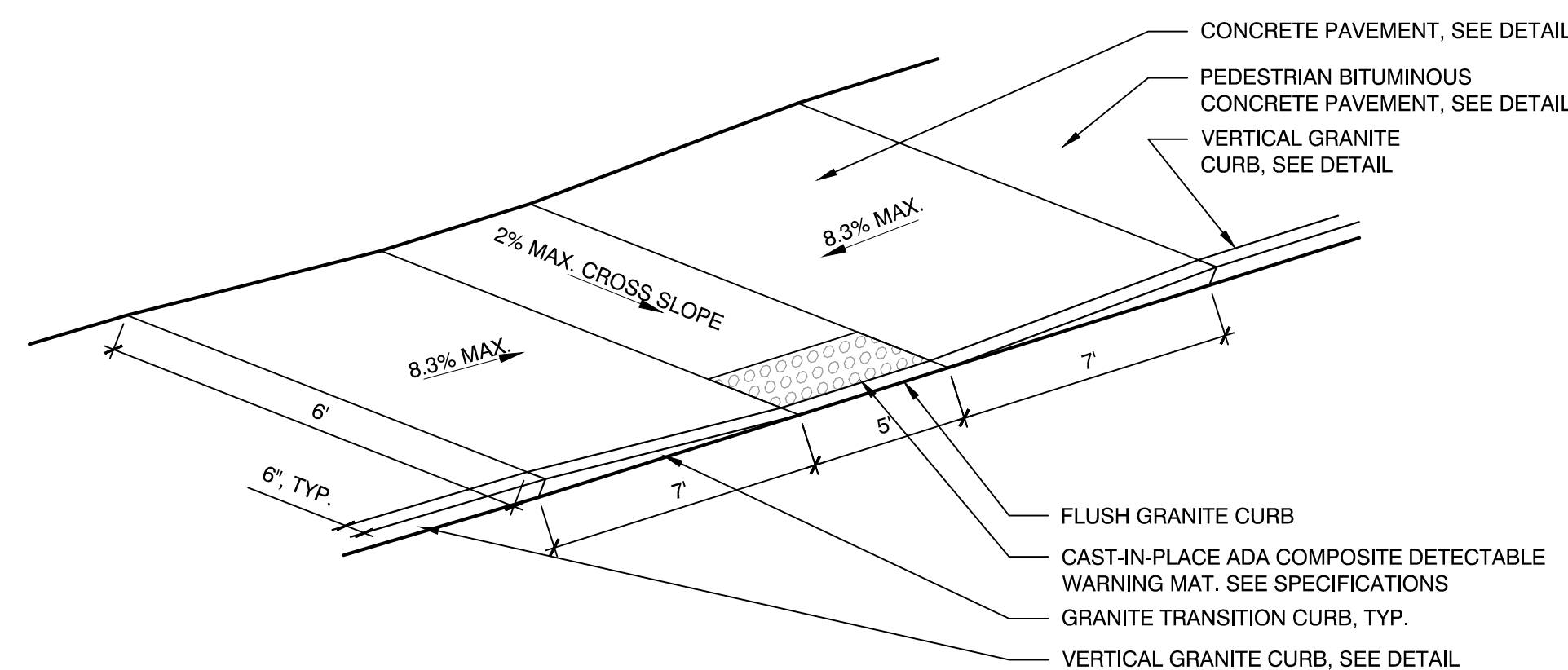
4 BITUMINOUS CONCRETE PAVEMENT - TOP COURSE OVERLAY
SCALE: NTS

5 VERTICAL GRANITE CURB
SCALE: NTS



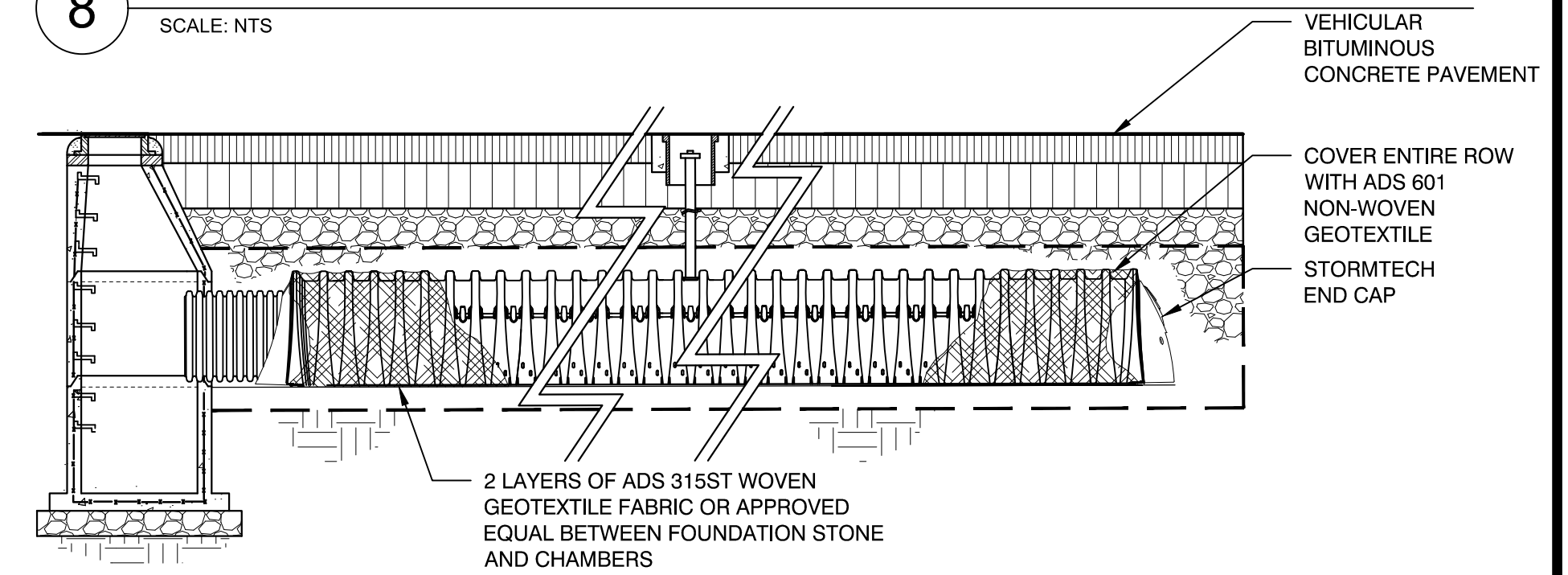
EXPANSION JOINT INSTALLATION NOTES:
1. DOWEL IS TYPICAL AT ALL EXPANSION JOINTS (18" O.C.) WITHIN CONCRETE PAVING AND BETWEEN NEW CONCRETE PAVING AND EXISTING CONCRETE PAVING TO REMAIN.
2. DELETE EXPANSION SLEEVE AND DOWEL WHERE JOINT ABUTS WALL, CURBS, OR OTHER VERTICAL SURFACES, UNLESS OTHERWISE NOTED.
3. EXPANSION JOINTS MAX. 25'-0" O.C. UNLESS SHOWN OTHERWISE.
4. EXPANSIONS JOINTS SHALL BE PLACED WHERE NEW CEMENT CONCRETE PAVEMENT MEETS EXISTING PAVEMENT OR WALLS TO REMAIN.
5. ALL EXPANSION JOINTS SHALL BE SAW CUT.

6 CONCRETE PAVEMENT
SCALE: NTS



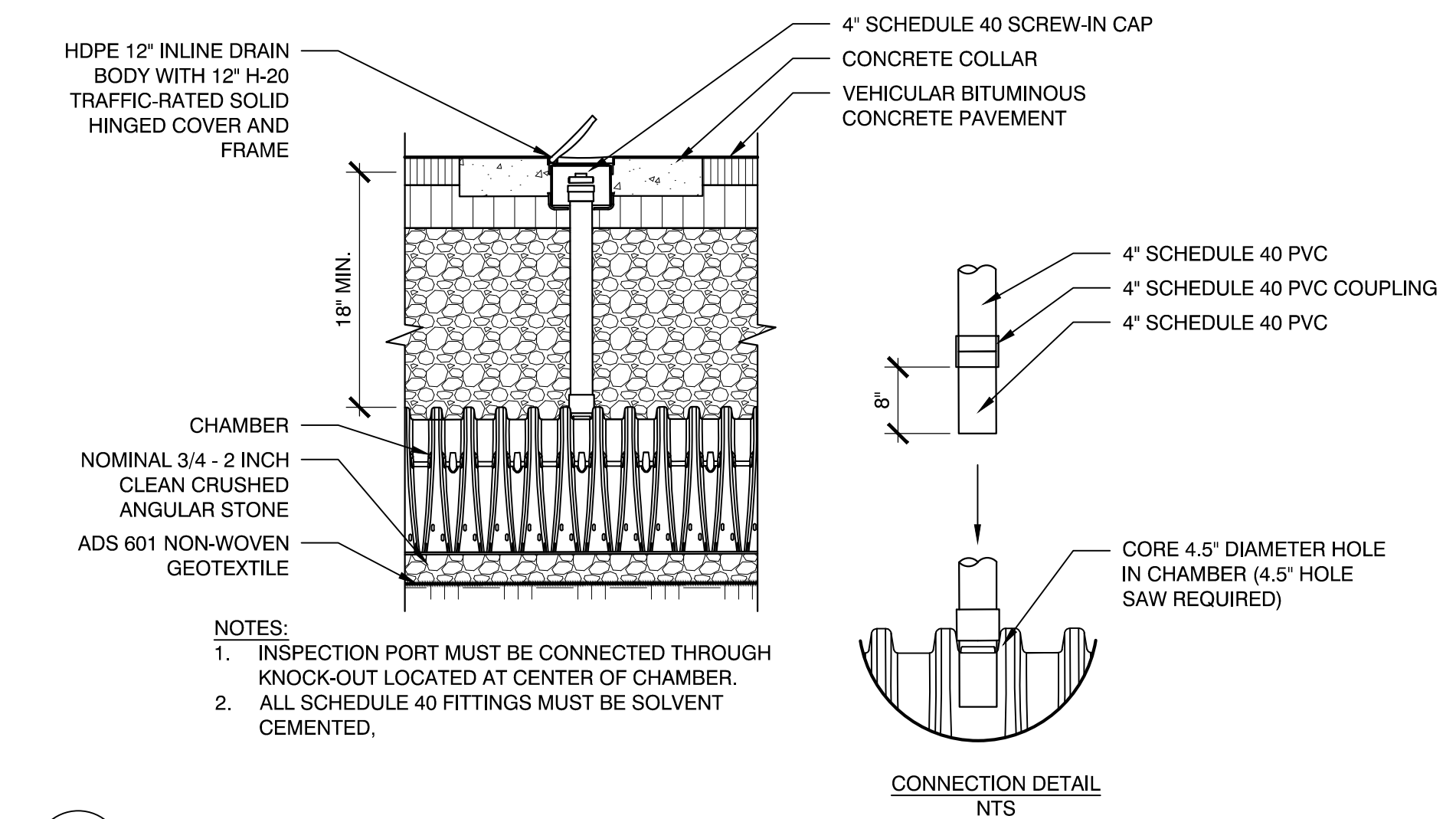
7 CURB RAMP WITH DETECTABLE WARNING MAT
SCALE: NTS

8 STORMWATER CHAMBER CROSS SECTION
SCALE: NTS



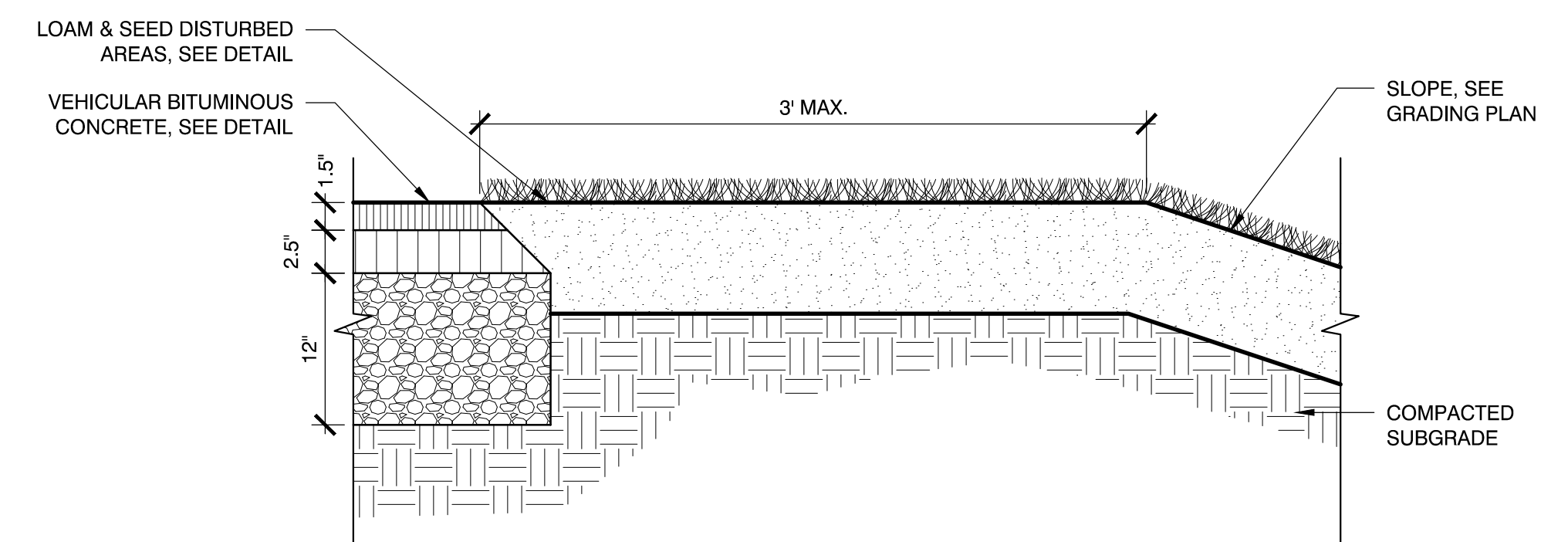
NOTES:
1. STORAGE PROVIDED = SEE PLANS.
2. CHAMBER SHALL BE INSTALLED PER MANUFACTURER'S REQUIREMENTS.
3. USE 330XLHD HEAVY DUTY FOR TRAFFIC AND/OR H-25 APPLICATIONS OR APPROVED EQUAL. SEE SPECIFICATIONS.
4. ALL UNITS SHALL BE MARKED WITH A COLOR STRIPE FORMED INTO THE PART ALONG THE LENGTH OF THE CHAMBER.
5. ALL CHAMBERS MUST BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.
6. PROVIDE ONE 6" INSPECTION PORT ON THE END OF EACH ROW PER MANUFACTURER DETAILS.

9 STORMWATER CHAMBER ISOLATION ROW
SCALE: NTS



NOTES:
1. INSPECTION PORT MUST BE CONNECTED THROUGH KNOCK-OUT LOCATED AT CENTER OF CHAMBER.
2. ALL SCHEDULE 40 FITTINGS MUST BE SOLVENT CEMENTED.

10 STORMWATER CHAMBER INSPECTION PORT
SCALE: NTS

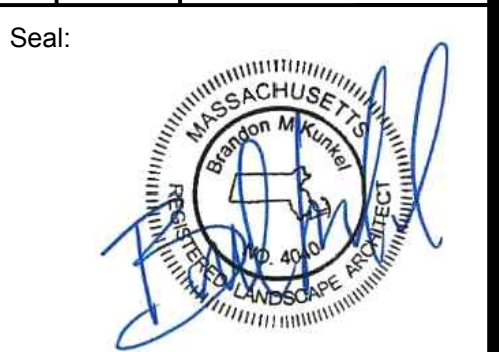


11 ROADWAY EDGE
SCALE: NTS

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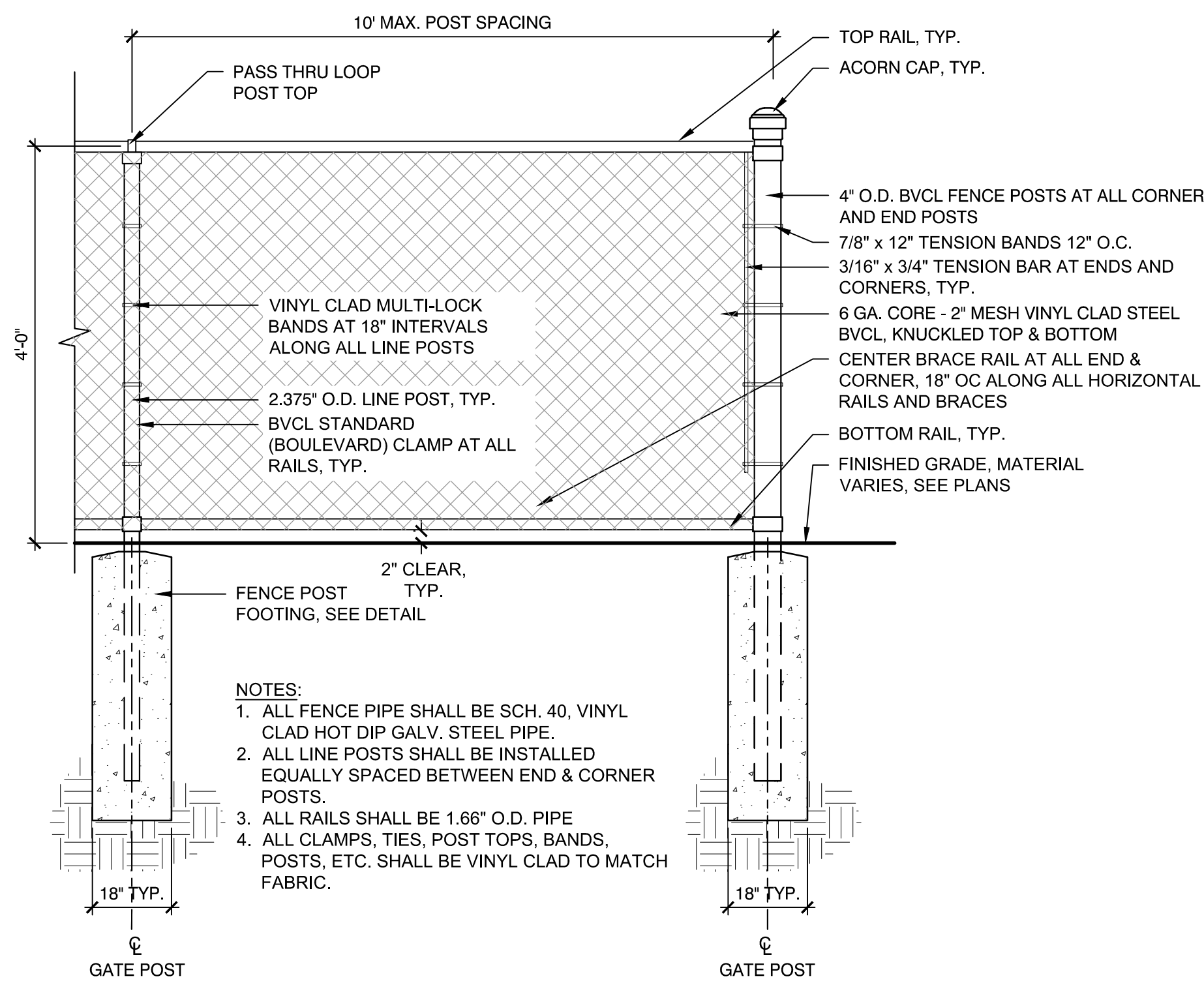


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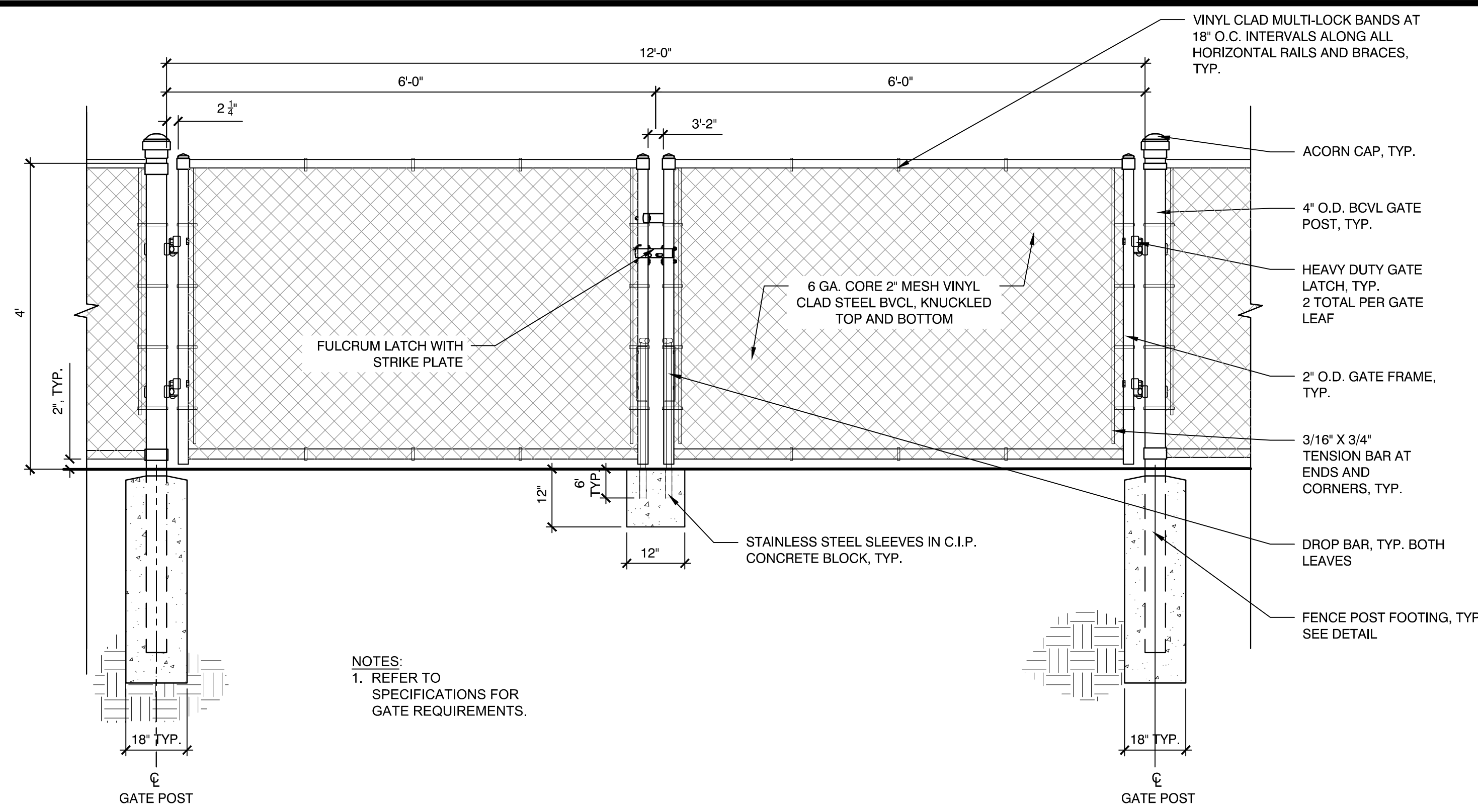
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W&S Project No: 2180076
W&S File No:

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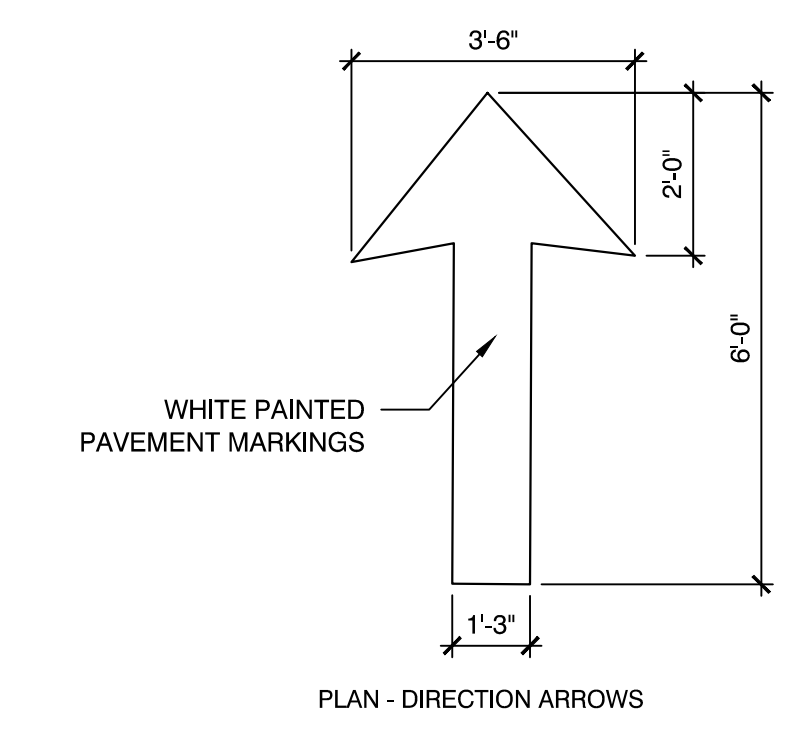
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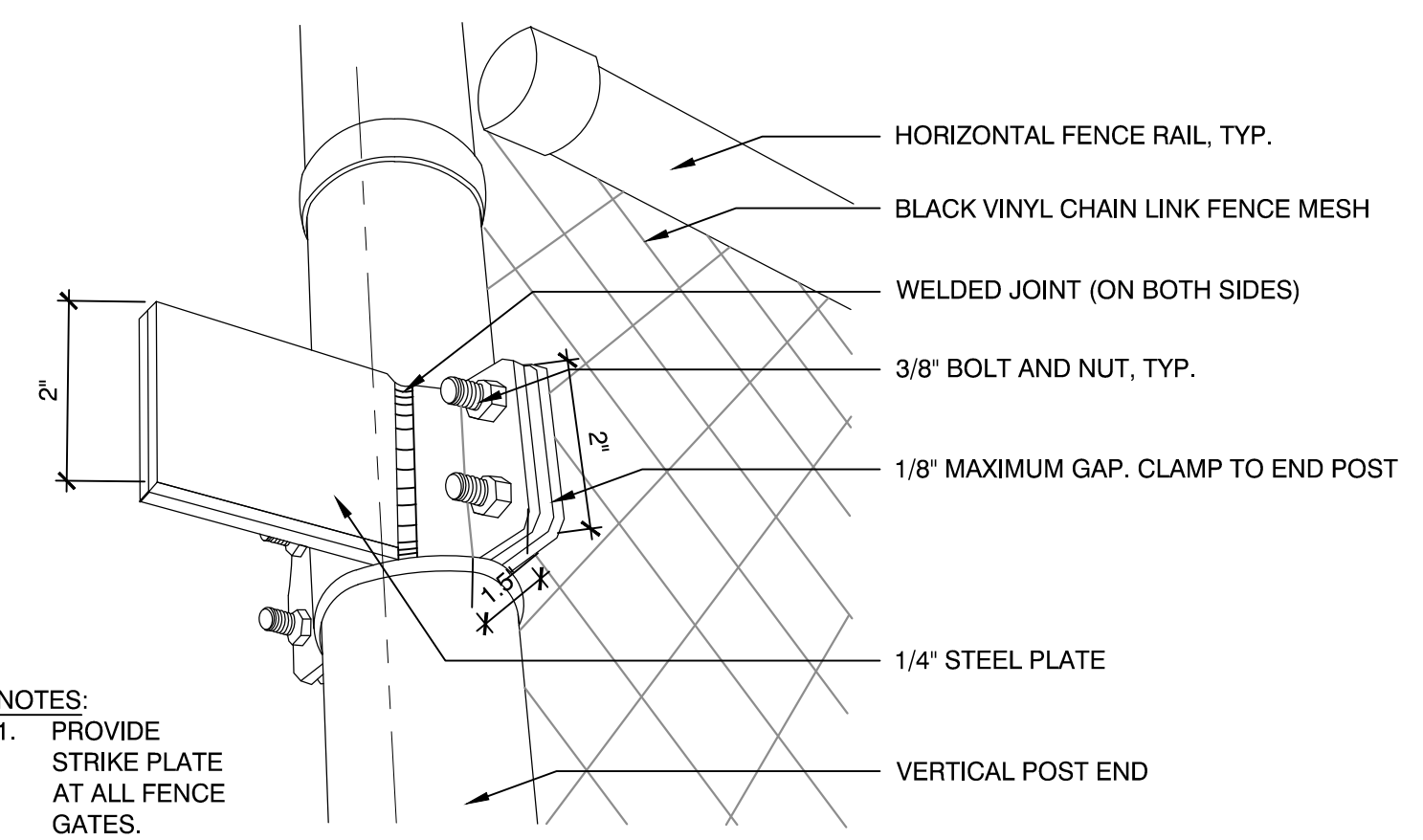
1 4' HT. BLACK VINYL CHAIN LINK (BVCL) FENCE
SCALE: NTS



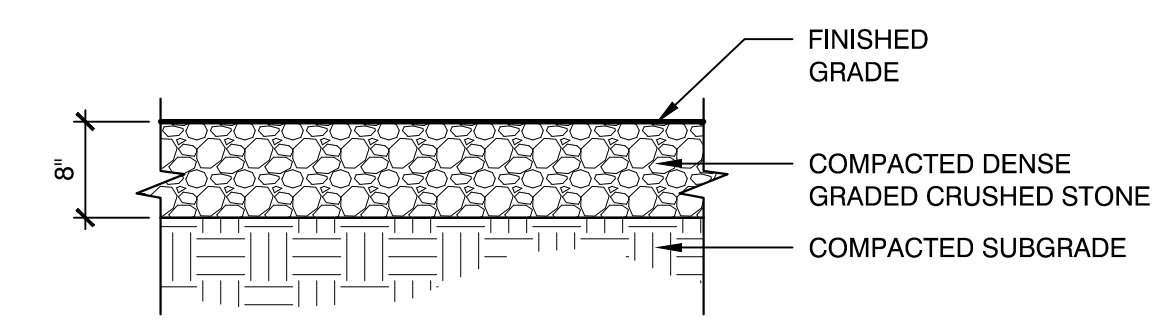
4 12' WIDE BLACK VINYL CHAIN LINK (BVCL) FENCE DOUBLE SWING GATE
SCALE: NTS



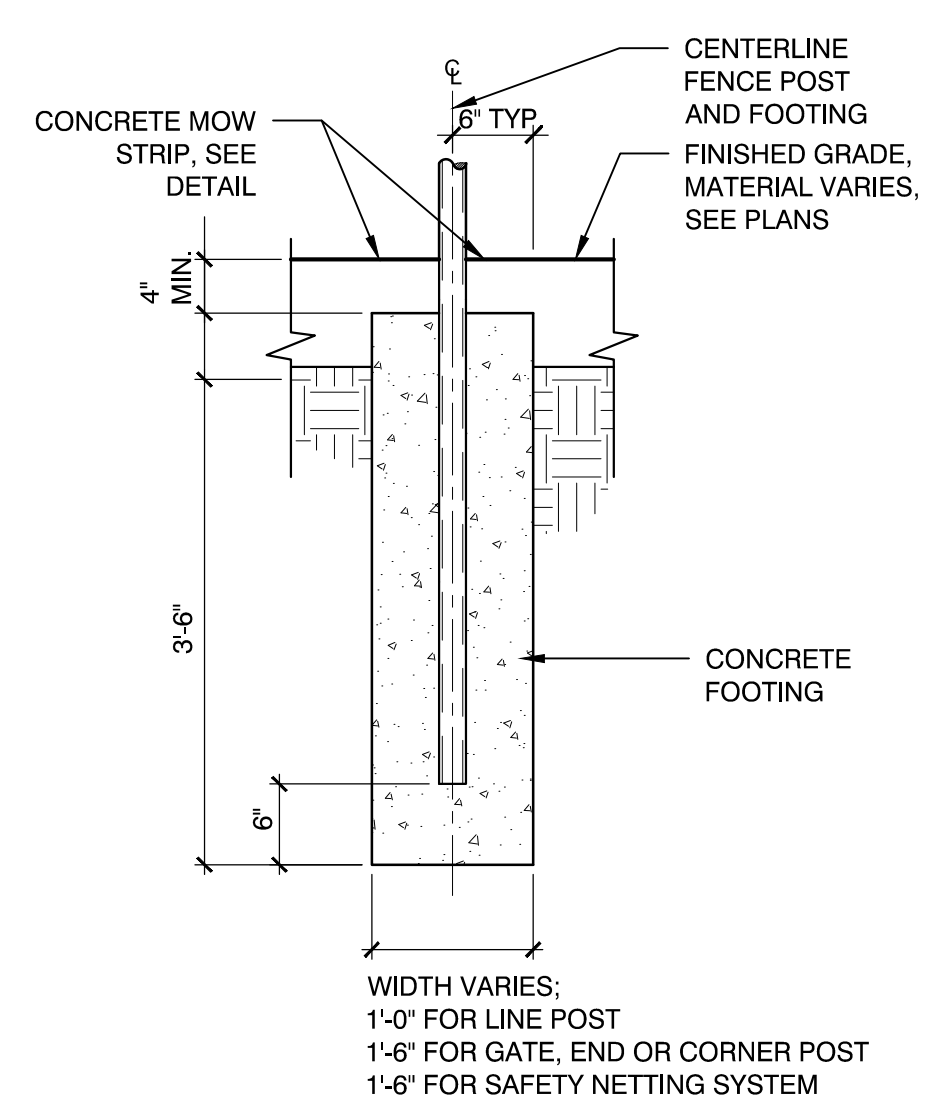
7 ONE-WAY DIRECTIONAL TRAFFIC ARROW
SCALE: NTS



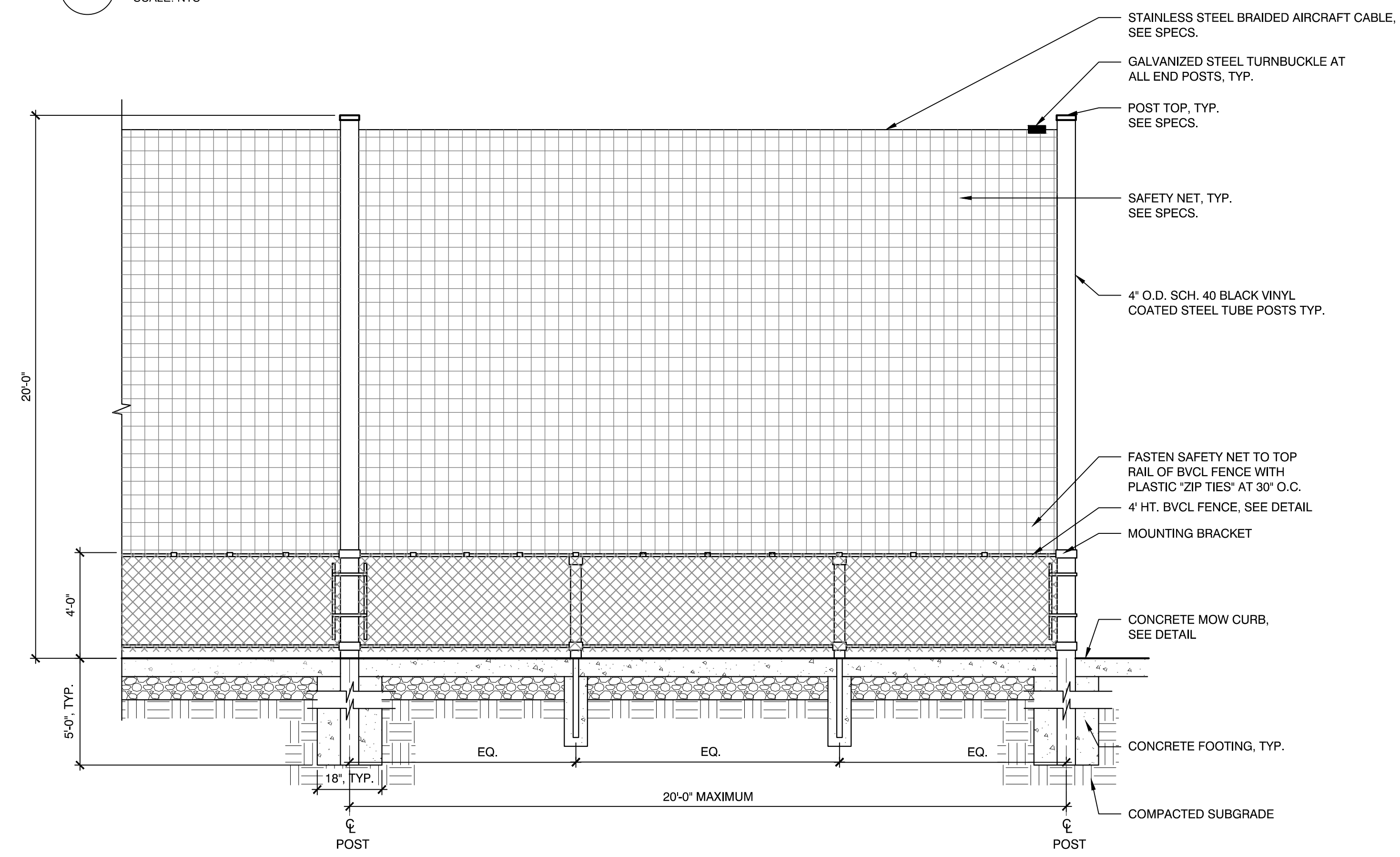
2 STRIKE PLATE
SCALE: NTS



5 DENSE GRADED CRUSHED STONE LEVELING PAD
SCALE: NTS



3 FENCE POST FOOTING
SCALE: NTS



6 20' HT. SAFETY NETTING SYSTEM
SCALE: NTS

Consultants:

Revisions:

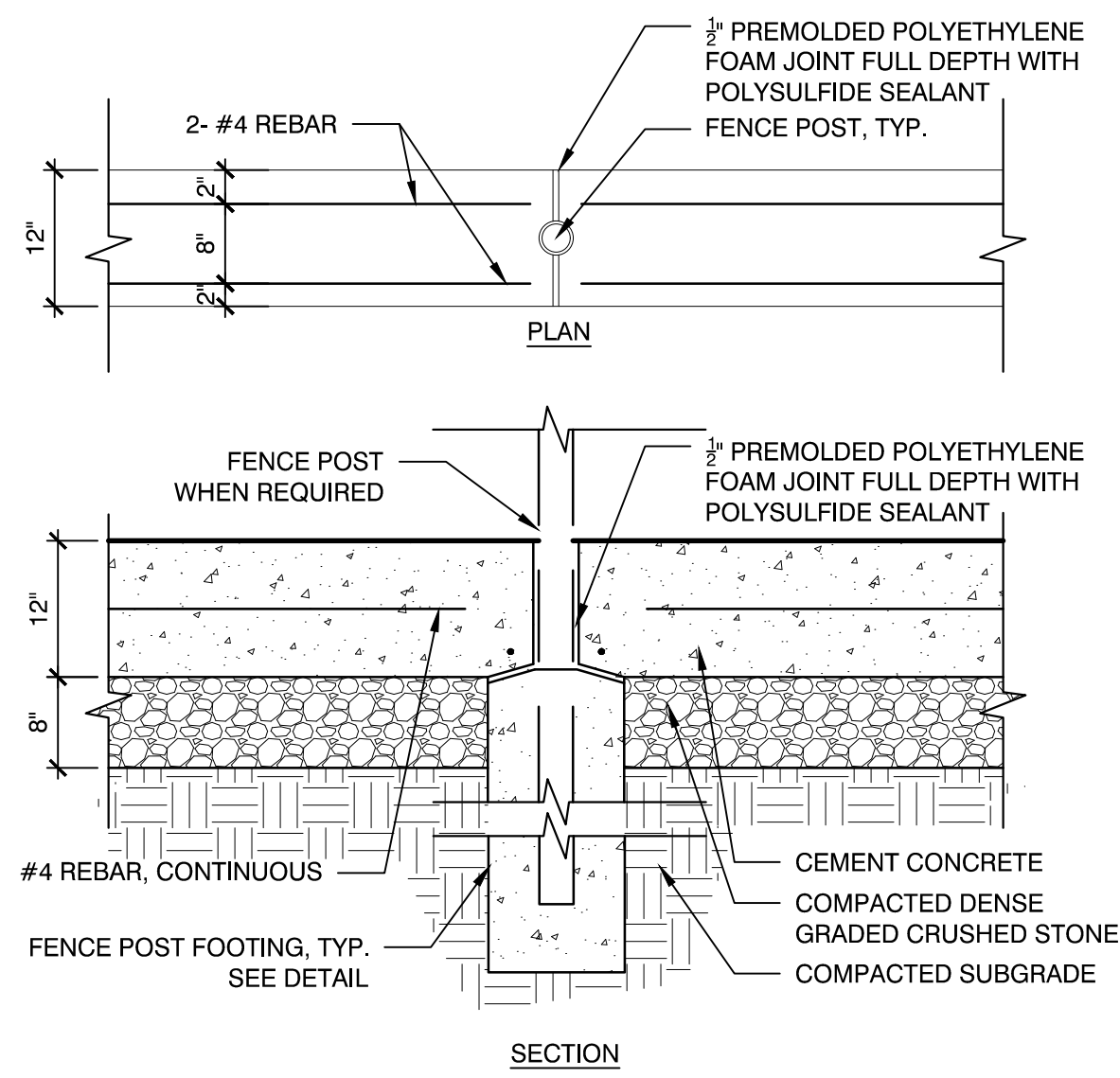
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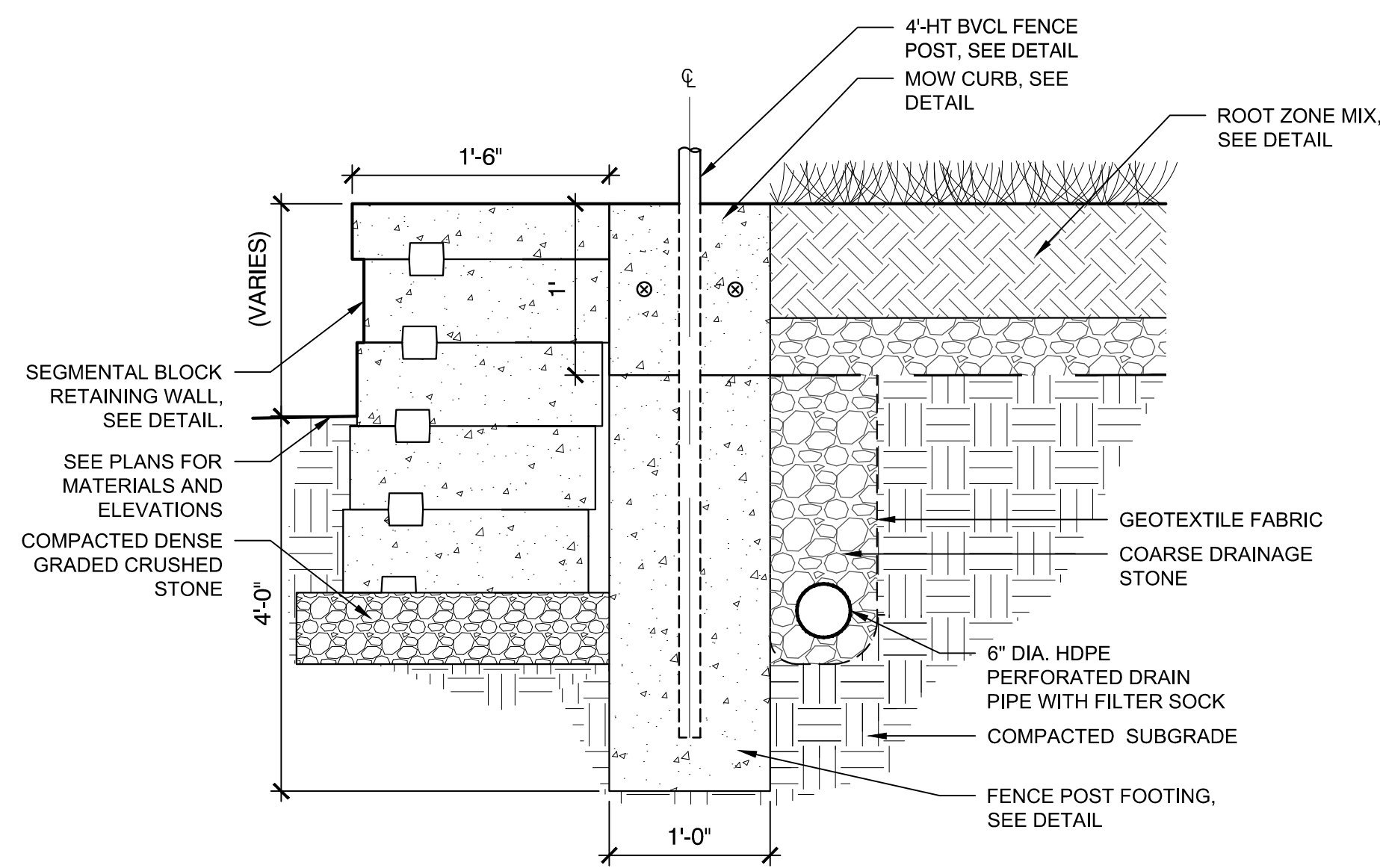
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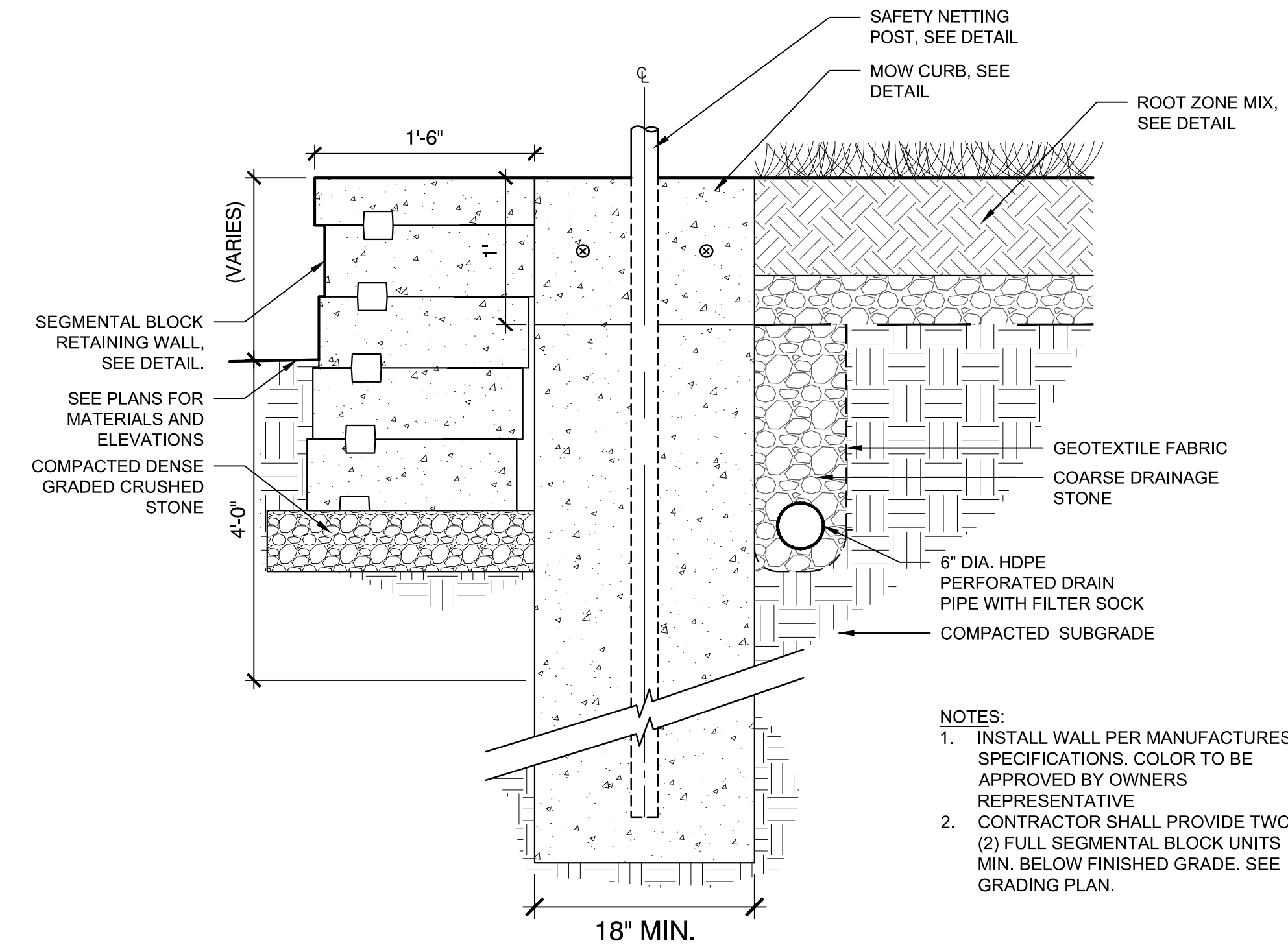
- NOTES:
- MOW CURB CORNERS SHALL BE SQUARE AT ADJACENT SURFACE MATERIAL TO ENSURE SMOOTH INTERFACE BETWEEN MATERIALS.
 - MOW CURB CORNERS ADJACENT TO PLANTING BED OR LAWN AREAS WILL HAVE $\frac{3}{8}$ " CHAMFER.
 - CONTRACTOR SHALL PROVIDE $\frac{3}{8}$ " PREMOLDED POLYETHYLENE FOAM EXPANSION JOIN, FULL DEPTH WITH SILICONE SEALANT EVERY 30' O.C. UNLESS OTHERWISE NOTED.

1 CONCRETE MOW CURB
SCALE: NTS



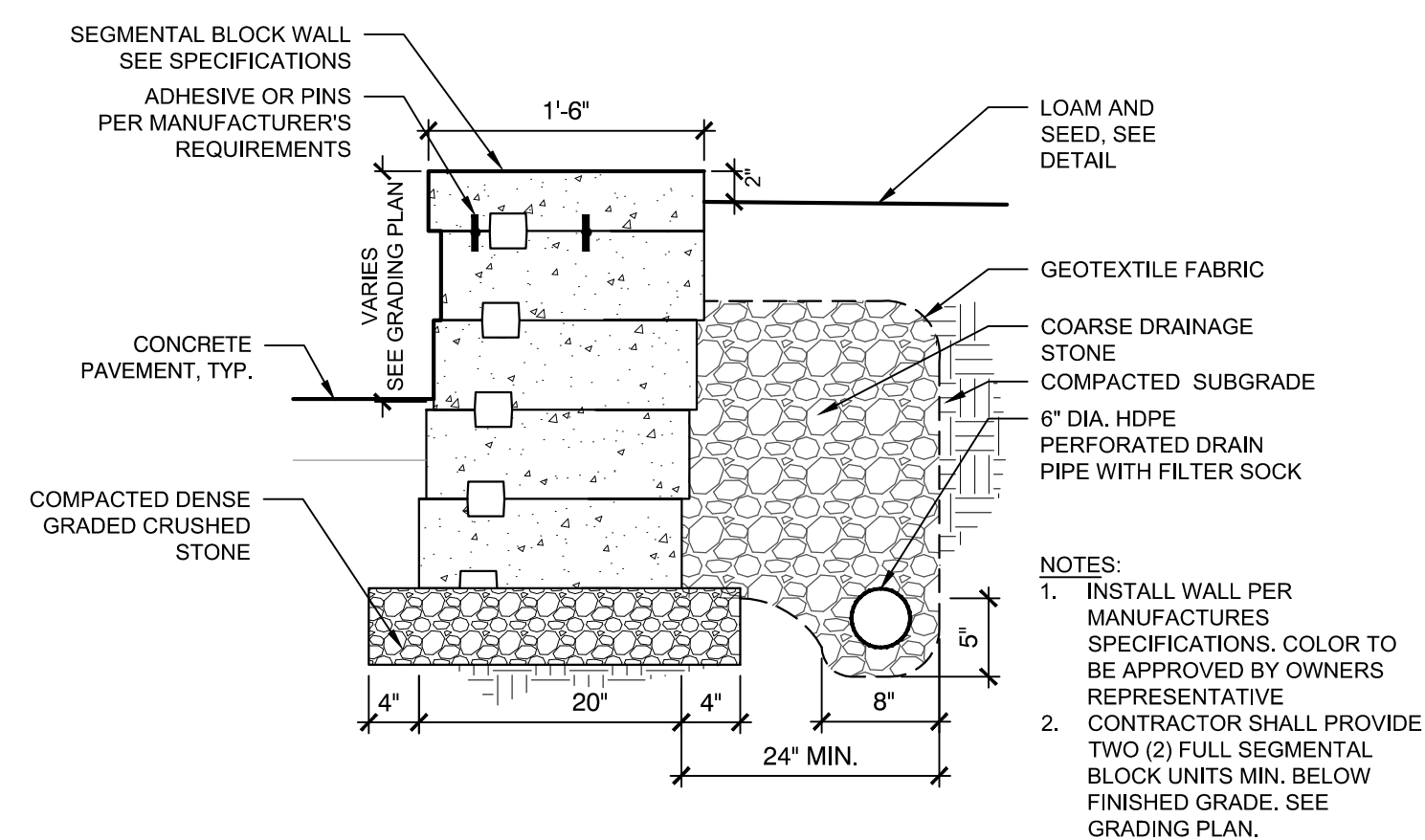
- NOTES:
- INSTALL WALL PER MANUFACTURES SPECIFICATIONS. COLOR TO BE APPROVED BY OWNERS REPRESENTATIVE
 - CONTRACTOR SHALL PROVIDE TWO (2) FULL SEGMENTAL BLOCK UNITS MIN. BELOW FINISHED GRADE. SEE GRADING PLAN.

2 BVCL FENCE POST AT SEGMENTAL BLOCK RETAINING WALL
SCALE: NTS



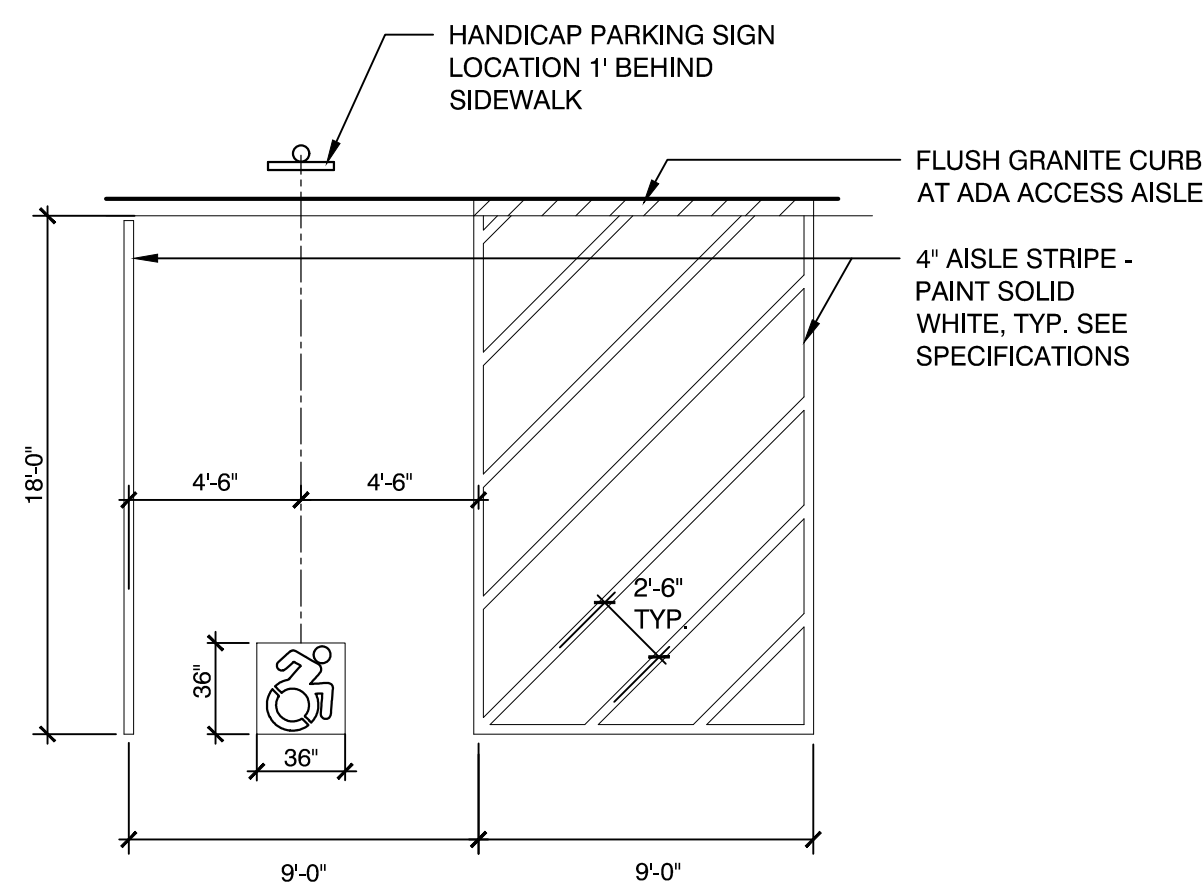
- NOTES:
- INSTALL WALL PER MANUFACTURES SPECIFICATIONS. COLOR TO BE APPROVED BY OWNERS REPRESENTATIVE
 - CONTRACTOR SHALL PROVIDE TWO (2) FULL SEGMENTAL BLOCK UNITS MIN. BELOW FINISHED GRADE. SEE GRADING PLAN.

3 SAFETY NETTING POST AT SEGMENTAL BLOCK RETAINING WALL
SCALE: NTS



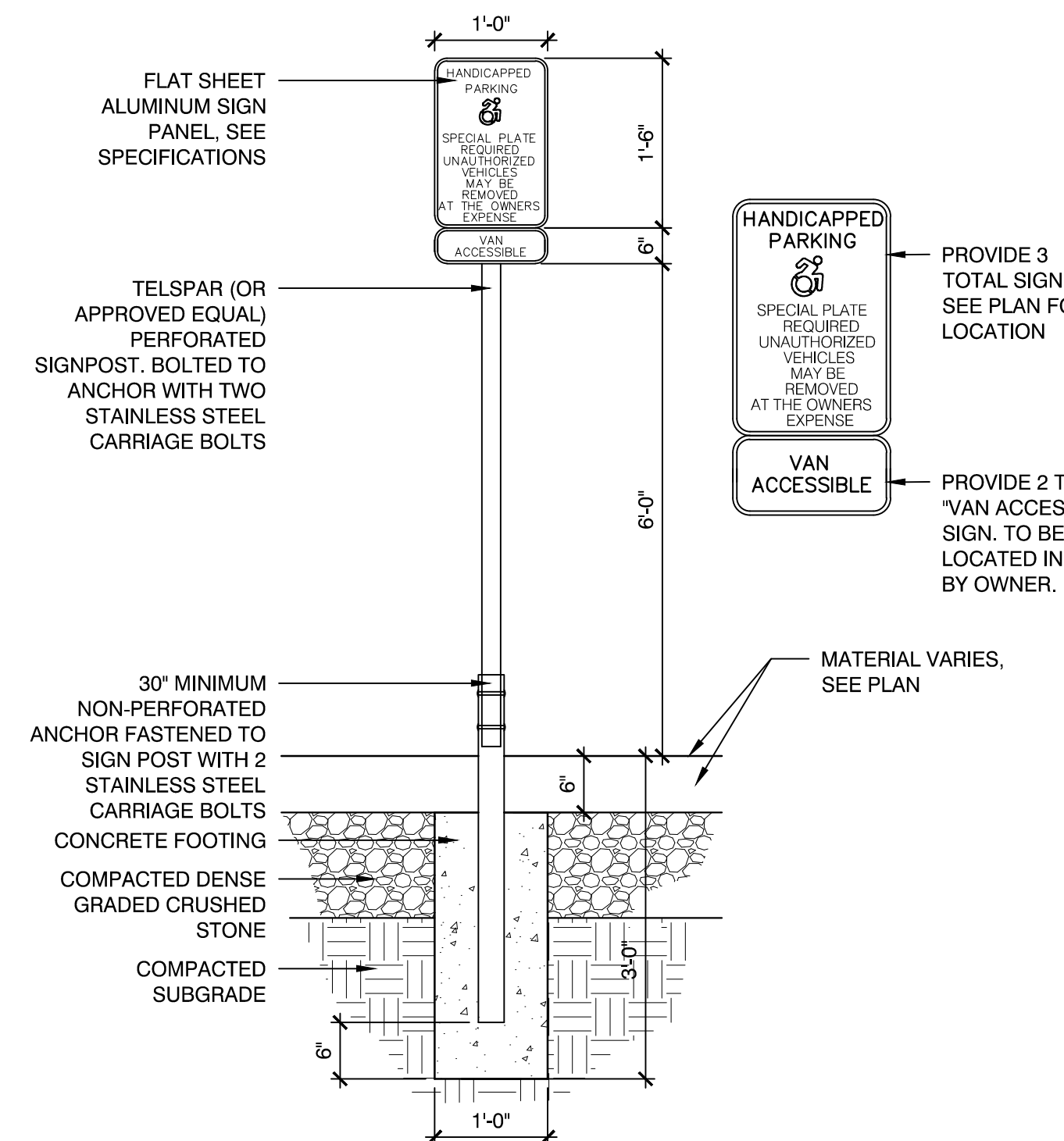
- NOTES:
- INSTALL WALL PER MANUFACTURES SPECIFICATIONS. COLOR TO BE APPROVED BY OWNERS REPRESENTATIVE
 - CONTRACTOR SHALL PROVIDE TWO (2) FULL SEGMENTAL BLOCK UNITS MIN. BELOW FINISHED GRADE. SEE GRADING PLAN.

4 SEGMENTAL BLOCK RETAINING WALL
SCALE: NTS

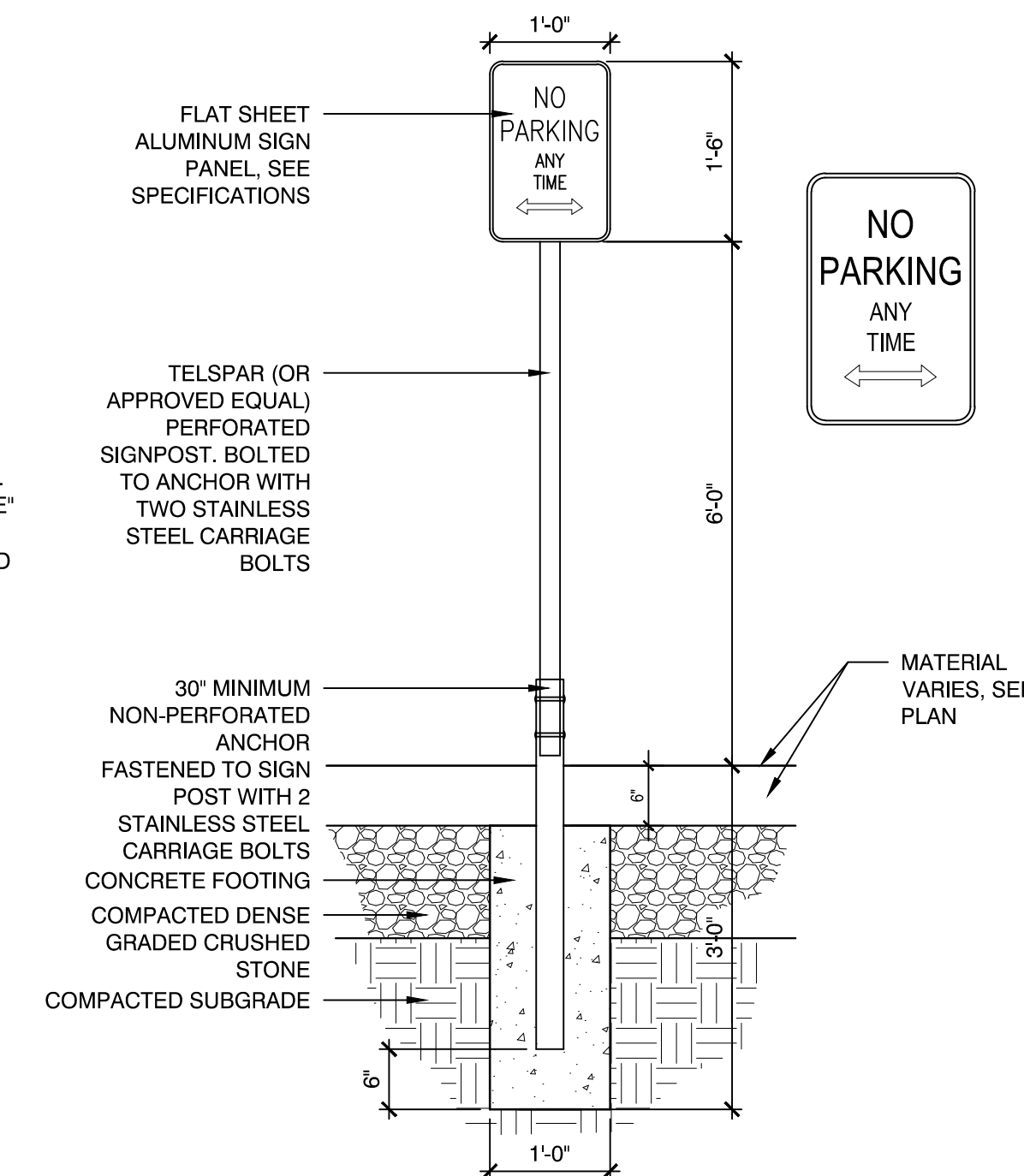


- NOTES:
- SEE SPECIFICATIONS FOR ALL PAVEMENT MARKINGS.
 - UNIVERSAL WHITE PAINTED ADA SYMBOL PLACED IN A BLUE PAINTED FIELD.

5 HANDICAP PARKING SPACE MARKING
SCALE: NTS



6 HANDICAP PARKING SIGN AND FOOTING
SCALE: NTS



7 "NO PARKING" SIGN AND FOOTING
SCALE: NTS

Consultants:

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Reviewed By: BMK

Approved By: BMK

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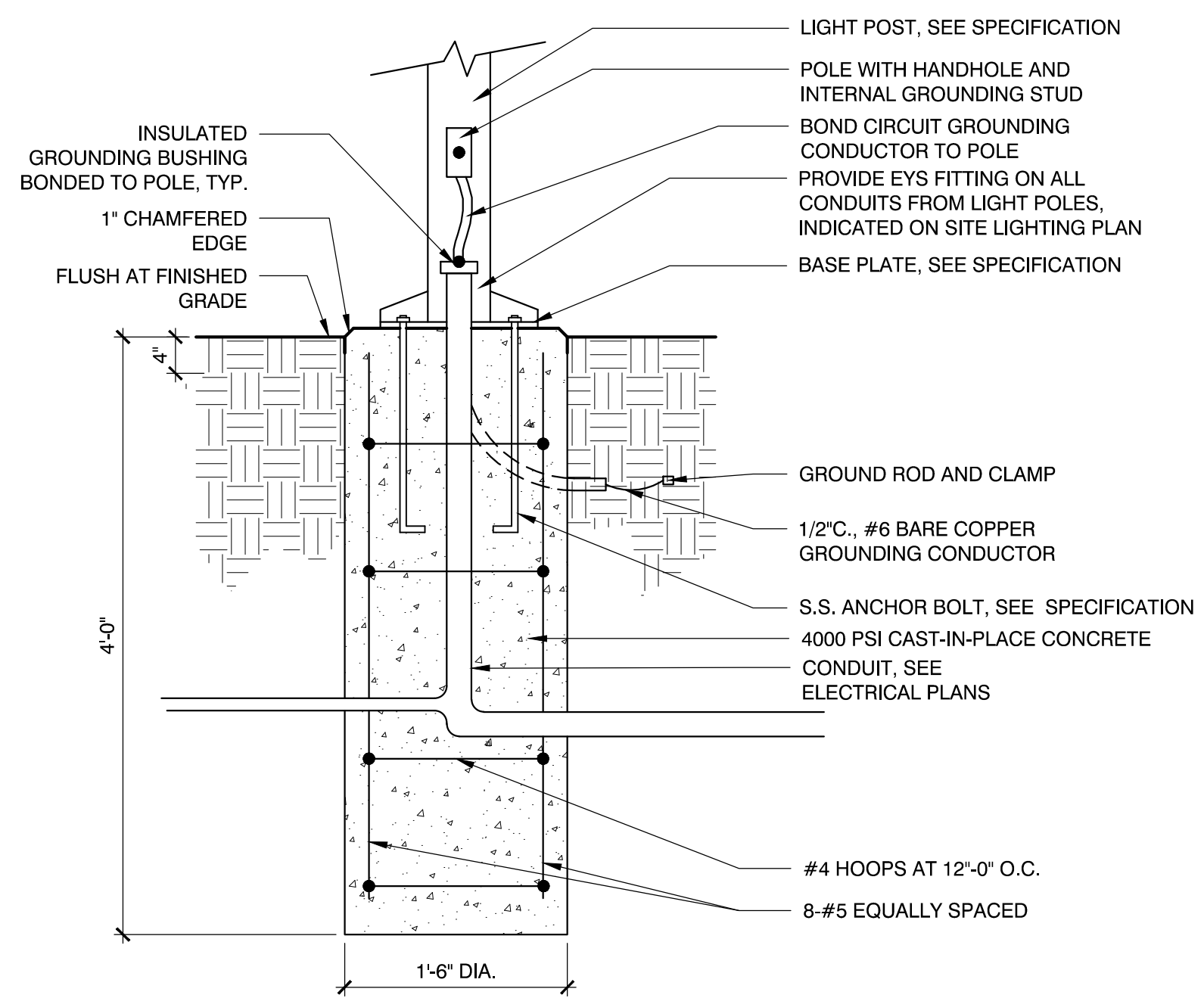
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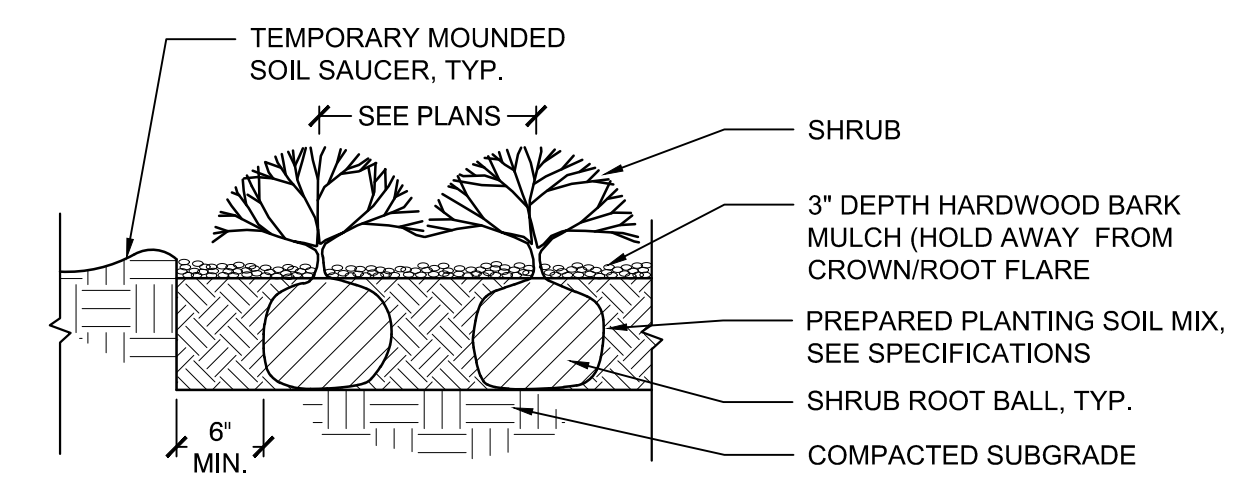
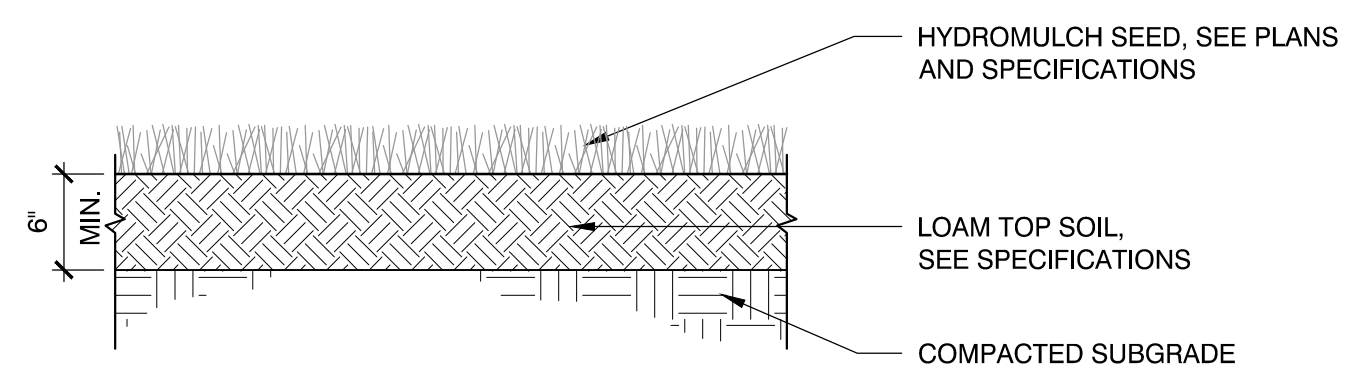
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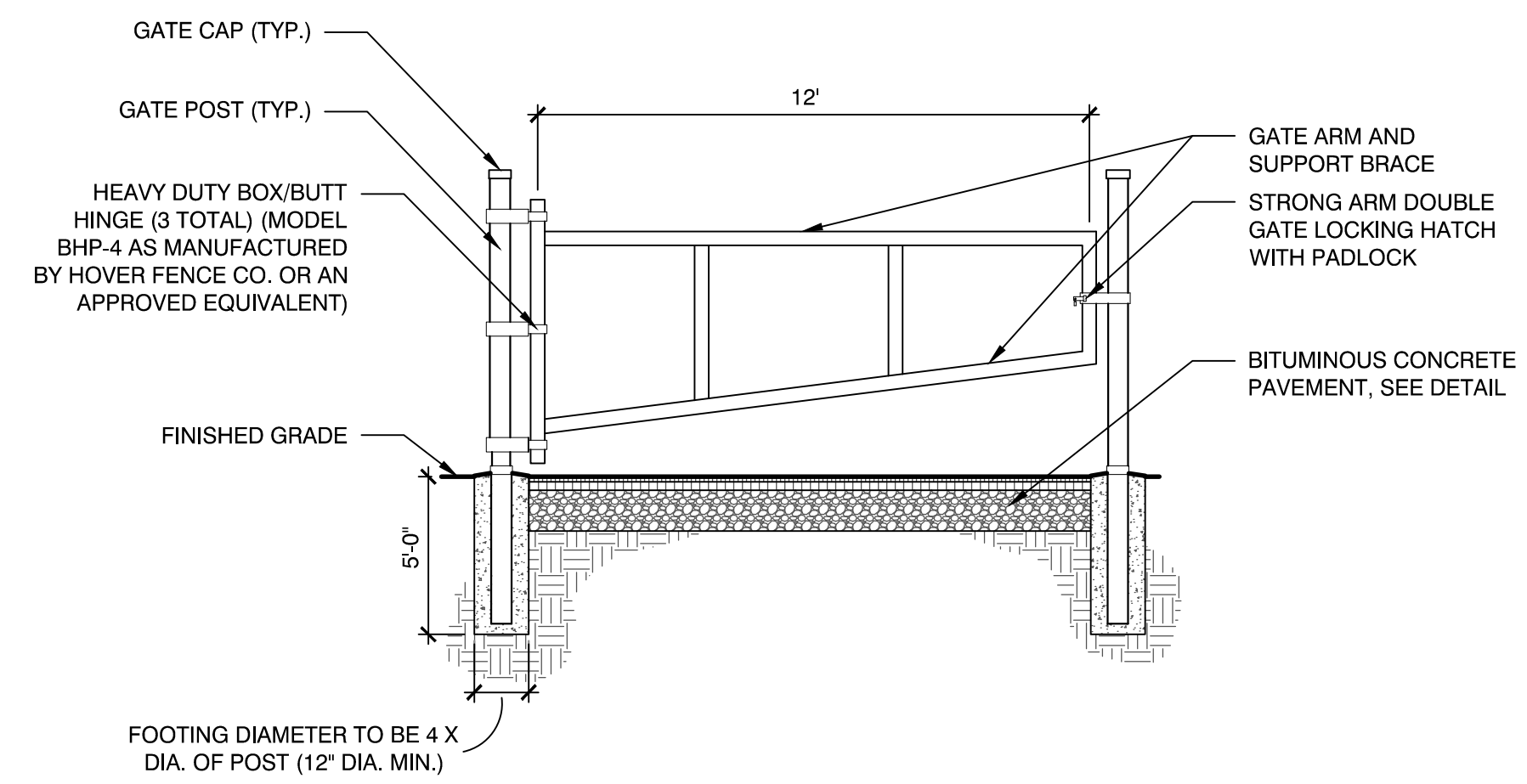
- NOTES:**
- ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR. ALL EXCAVATION, BACKFILL, & CONCRETE SHALL BE BY GENERAL CONTRACTOR.
 - REFER TO SPECIFICATIONS FOR MATERIALS.

3 LOAM AND SEED
SCALE: NTS



- NOTES:**
- ALL MULCH MUST BE DARK IN COLOR. PROVIDE SAMPLE PRIOR TO INSTALLATION TO BE APPROVED BY OWNER'S REPRESENTATIVE.

4 SHRUB PLANTING
SCALE: NTS

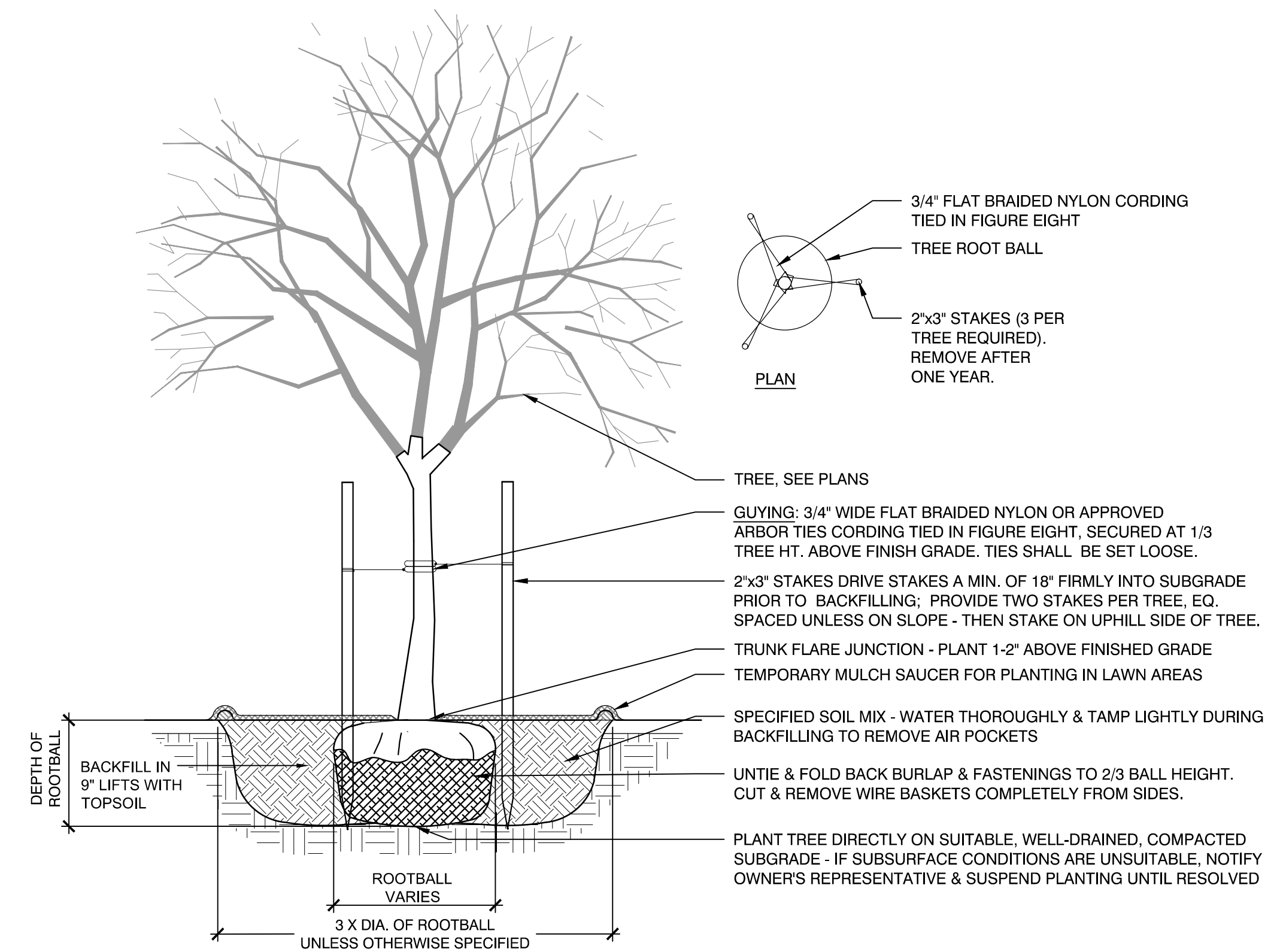


- POSTS:**
SCHEDULE 40 GALVANIZED STEEL, SIX (6) INCH DIA.
- GATE ARM AND SUPPORT BRACE:**
SCHEDULE 40 GALVANIZED STEEL FOUR (4) INCH DIA.
- HARDWARE:**
HEAVY DUTY GALVANIZED STEEL
- CONCRETE FOOTING:**
NORMAL WEIGHT CONCRETE AIR ENTRAINED WITH NOT LESS THAN 4,500 PSI COMPRESSIVE STRENGTH (28 DAYS), THREE (3) INCH SLUMP, AND ONE (1) INCH MAXIMUM SIZE AGGREGATE.

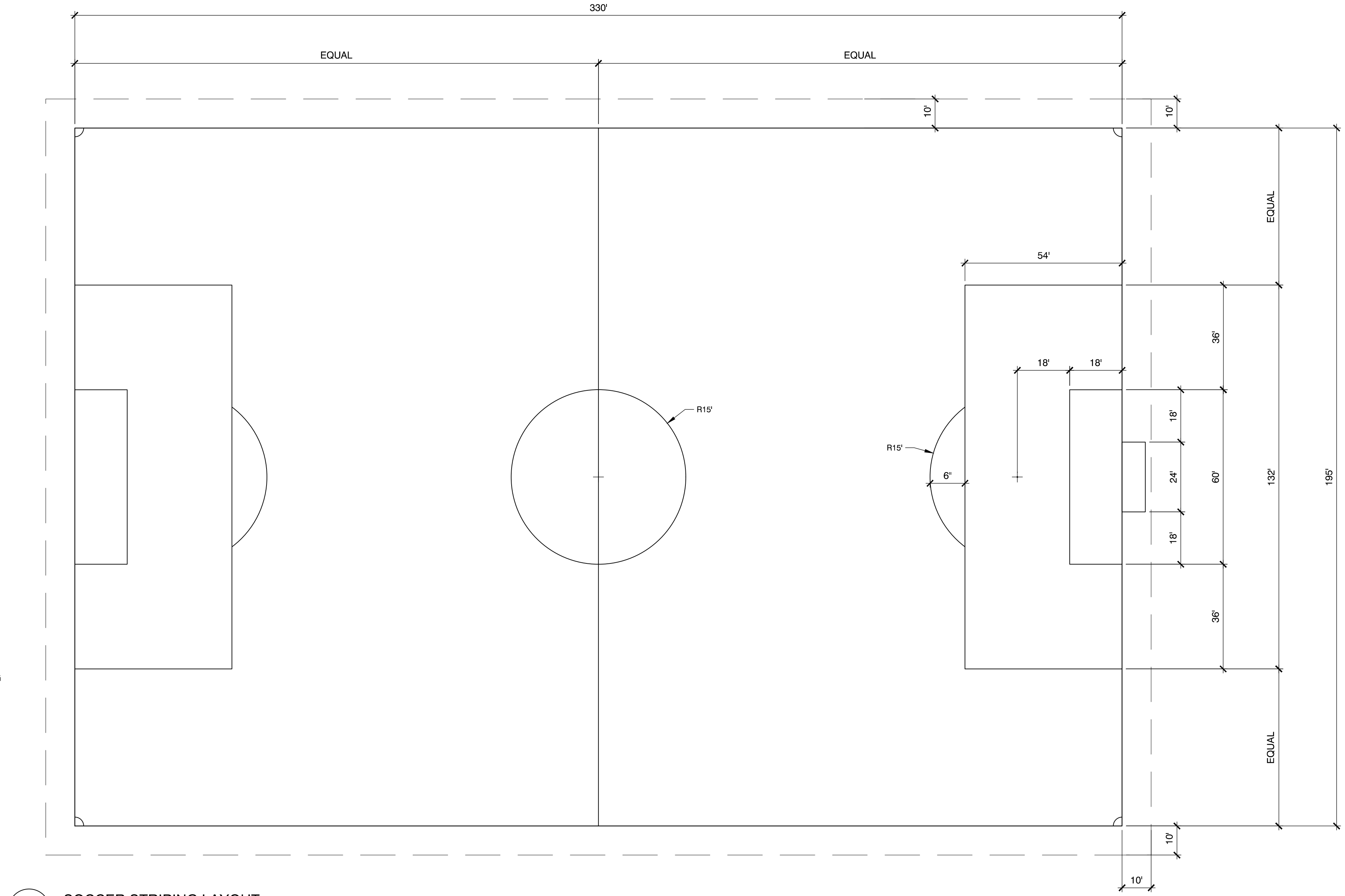
- NOTES:**
- THE CONTRACTOR SHALL PROVIDE ALL GATE COMPONENTS, HARDWARE, ETC. FOR THE COMPLETE INSTALLATION OF THE NEW GATE. INSTALL IN STRICT COMPLIANCE WITH THE MANUFACTURER'S WRITTEN RECOMMENDATIONS AND SPECIFICATIONS. ALL MATERIALS SHALL BE HEAVY DUTY RATED AND APPROVED BY THE ENGINEER PRIOR TO INSTALLATION. ALL HARDWARE SHALL BE INSTALLED SO THAT THE GATE IS STRUCTURALLY SOUND AND DOES NOT SAG IN THE OPEN AND/OR CLOSED POSITION. COORDINATE LAYOUT AND LOCATION IN THE FIELD WITH THE ENGINEER PRIOR TO INSTALLATION.

6 VEHICLE SWING GATE
SCALE: NTS

1 PEDESTRIAN LIGHTING AND FOOTING
SCALE: NTS



2 TREE STAKING AND PLANTING
SCALE: NTS



5 SOCCER STRIPING LAYOUT
SCALE: NTS

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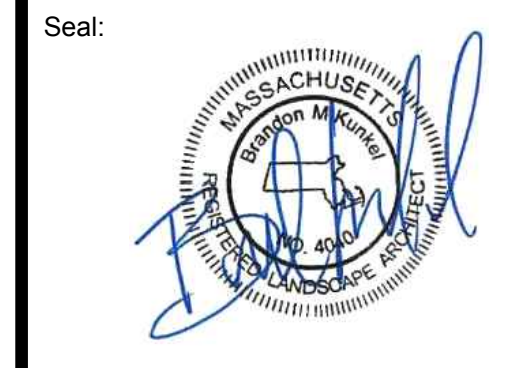
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Sheet Number:
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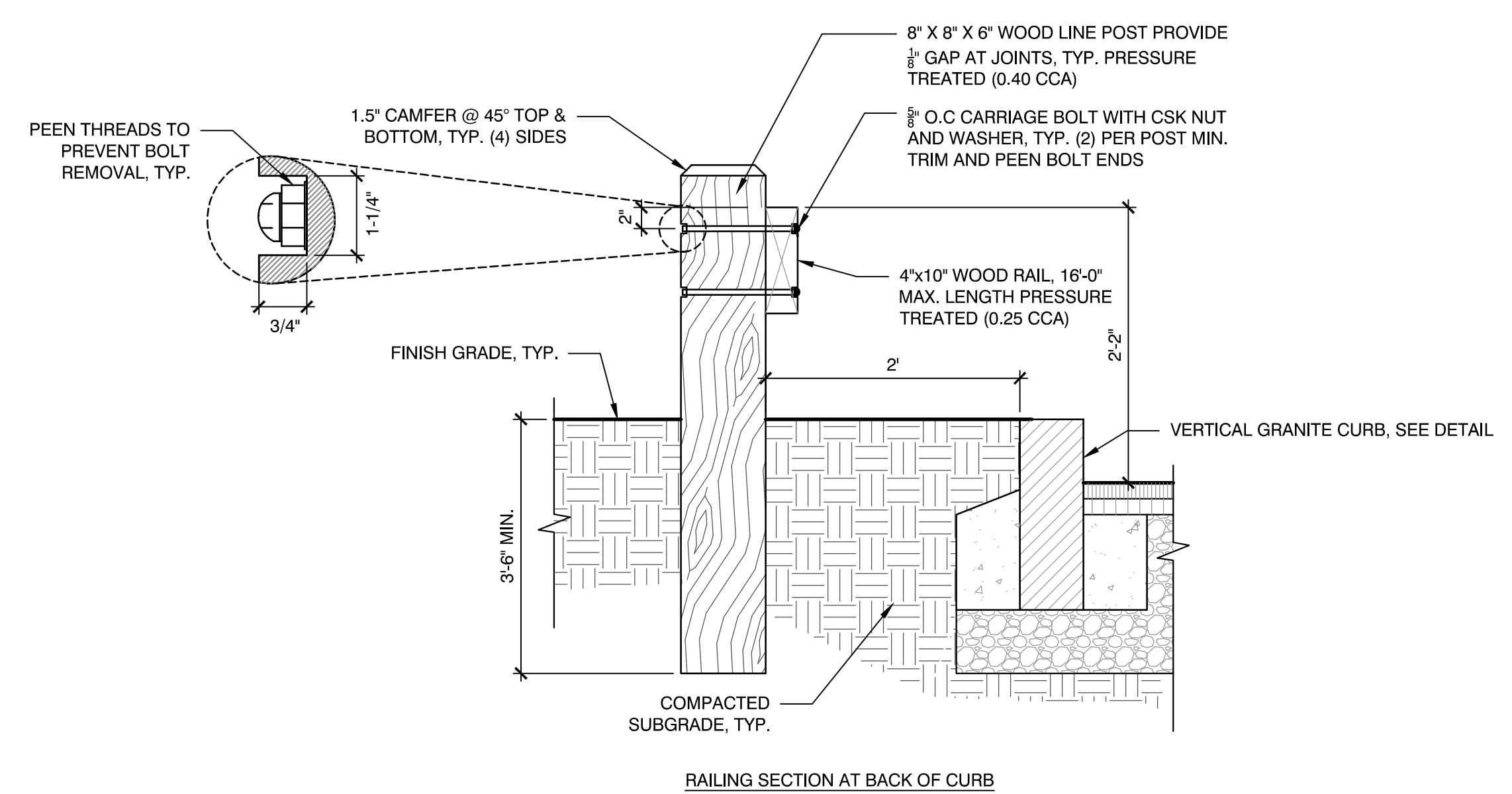
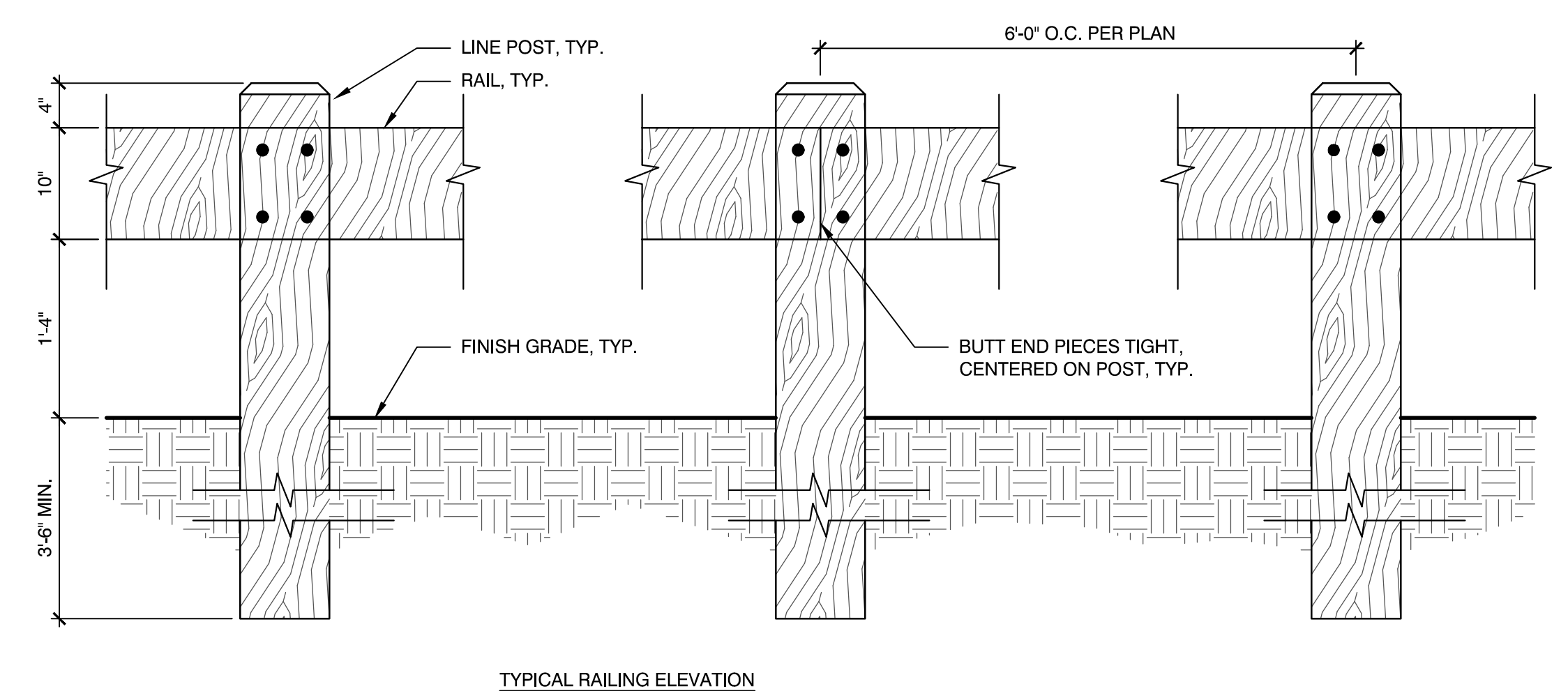


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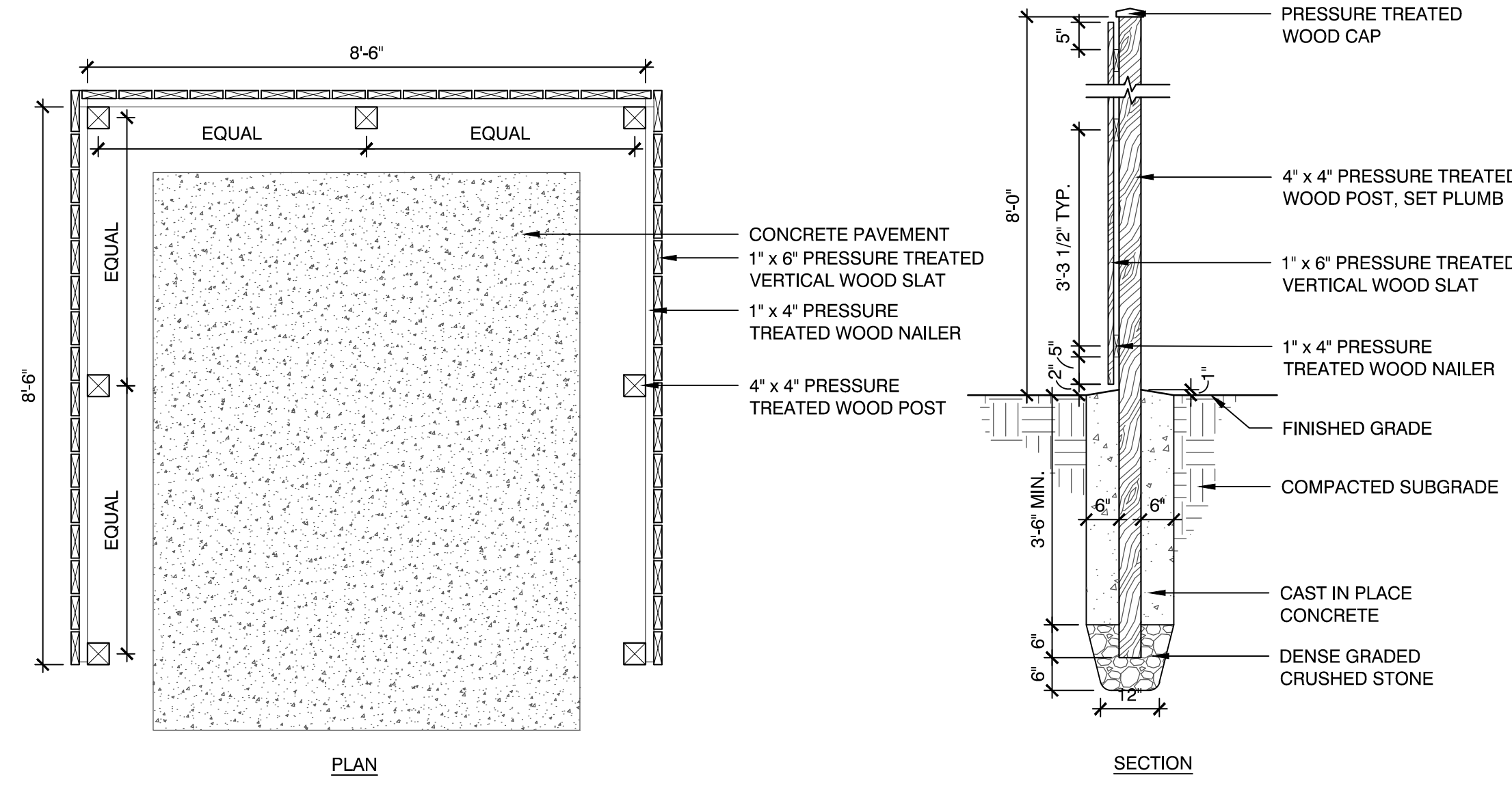
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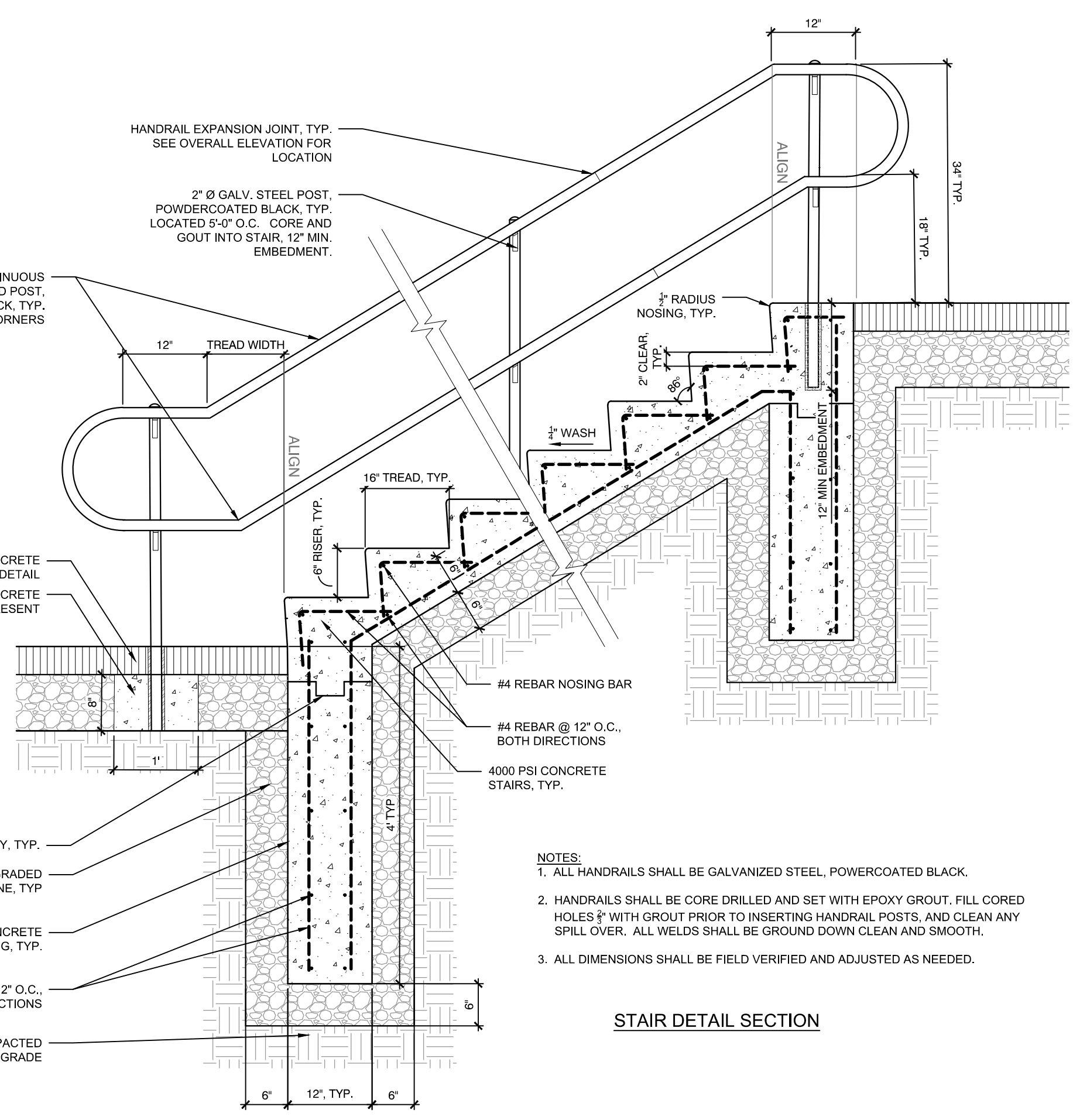
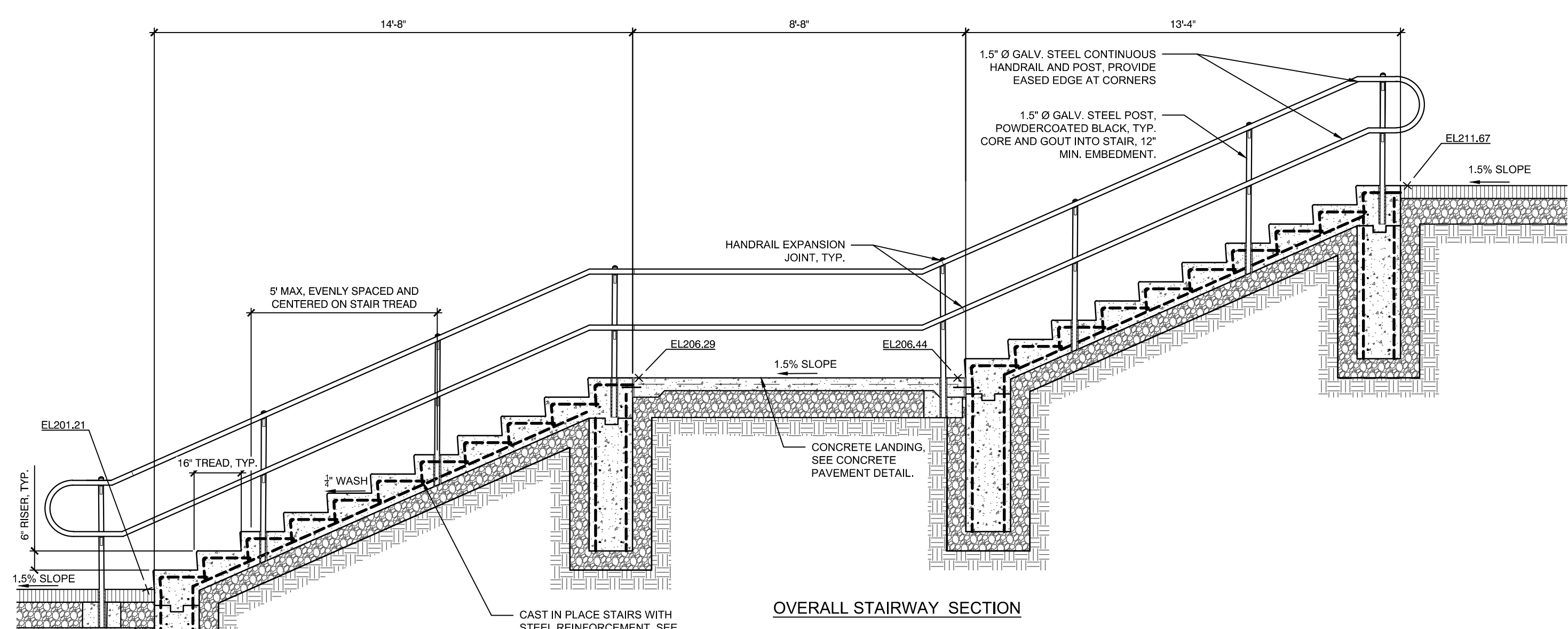
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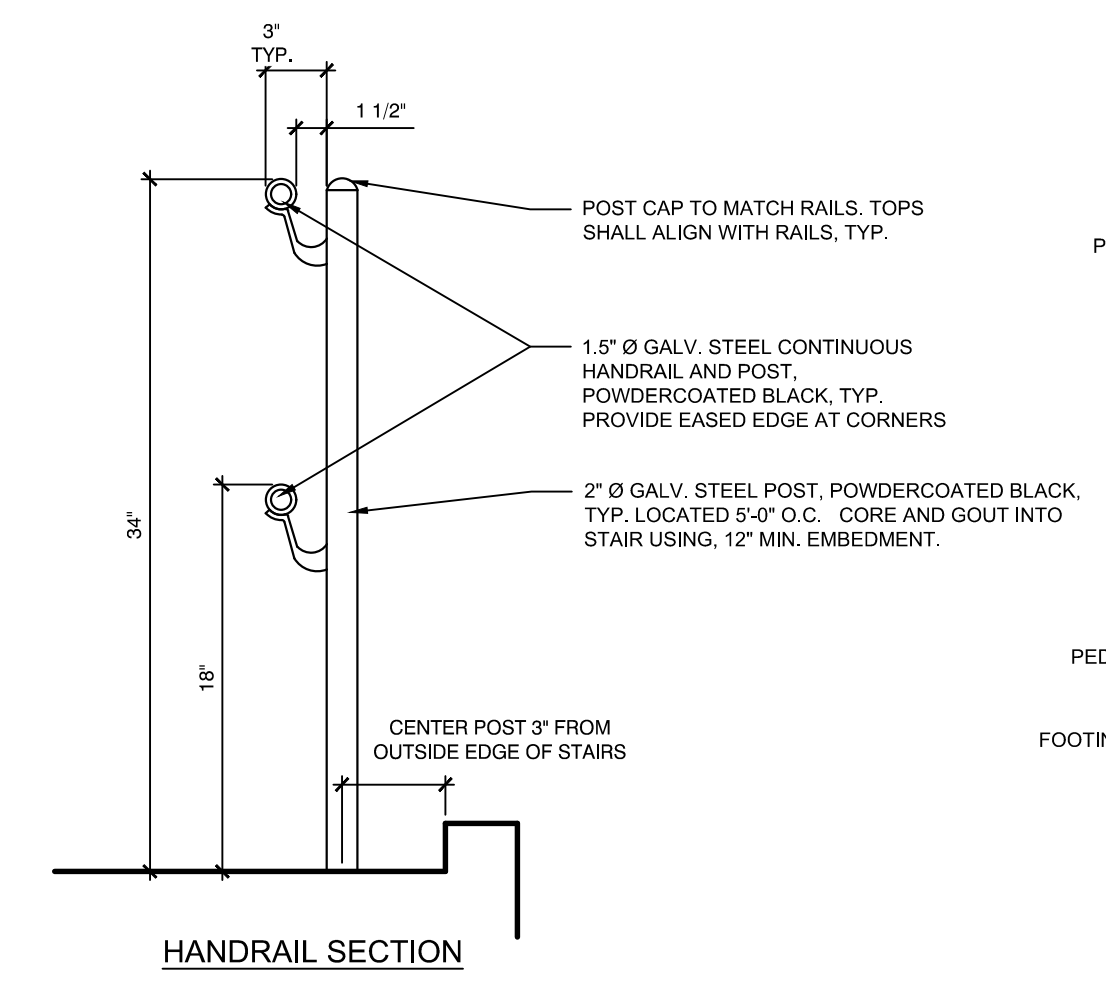
2 VEHICULAR WOOD GUARDRAIL
 SCALE: NTS



3 WOOD SLAT SCREEN FENCE
 SCALE: NTS



- NOTES:
1. ALL HANDRAILS SHALL BE GALVANIZED STEEL, POWDERCOATED BLACK.
 2. HANDRAILS SHALL BE CORE DRILLED AND SET WITH EPOXY GROUT. FILL CORED HOLES 5" WITH GROUT PRIOR TO INSERTING HANDRAIL POSTS, AND CLEAN ANY SPILL OVER. ALL WELDS SHALL BE GROUND DOWN CLEAN AND SMOOTH.
 3. ALL DIMENSIONS SHALL BE FIELD VERIFIED AND ADJUSTED AS NEEDED.



- NOTES:
1. VERTICAL POSTS SHALL BE SET @ 5' MAXIMUM, EVENLY SPACED AND ALONG THE HORIZONTAL RAIL AND CENTERED ON TREADS, UNLESS OTHERWISE SPECIFIED OR SHOWN ON THE DRAWINGS.
 2. CONTRACTOR SHALL SUBMIT LARGE SCALE SHOP DRAWINGS OF HANDRAILS AND ALL NECESSARY HARDWARE PER SPECIFICATIONS.

1 CAST IN PLACE CONCRETE STAIRS
 SCALE: NTS

IRRIGATION NOTES

- COORDINATE FINAL LOCATION OF SPRINKLERS AND NOZZLE SELECTION WITH FINAL APPROVED FIELD LAYOUT.
- ALL PIPE AND VALVE LOCATIONS ARE DIAGRAMMATIC, CONTRACTOR SHALL FIELD VERIFY.
- ALL VALVES AND VALVE BOXES SHALL BE PLACED, WHERE POSSIBLE, AWAY FROM PLAYING SURFACES.
- ALL CONTROL WIRE SHALL BE #14 GAUGE SINGLE STRAND, RED FOR TURF ZONES, ALL COMMON WIRE SHALL BE #12 GAUGE SINGLE STRAND WHITE AND ALL SPARE WIRES, INSTALLED WHERE SHOWN, SHALL BE #14 GAUGE SINGLE STRAND BLUE.
- QUICK COUPLING VALVES SHALL BE INSTALLED ON 1 INCH PVC SWING JOINTS WITH BRASS INSERTS AND STABILIZERS. (SEE DETAIL)
- ALL ROTARY SPRINKLERS SHALL BE INSTALLED ON 1-INCH PVC PREFABRICATED UNITIZED SWING JOINT ASSEMBLIES WITH INTEGRAL O-RINGS.
- IRRIGATION SYSTEM IS DESIGNED FOR SEPARATE WATER SUPPLY TO PROVIDE 47 GPM MAX FROM EXISTING 4-INCH SERVICE. SYSTEM TO PRODUCE 75-PSI DYNAMIC PRESSURE AT IRRIGATION CONTRACTOR'S POINT OF CONNECTION IN LANDSCAPED AREA.
- CONTRACTOR SHALL TEST DYNAMIC PRESSURE BEFORE STARTING WORK, REPORT ANY DEVIATION FROM PRESSURE REQUIRED TO OWNER'S REPRESENTATIVE BEFORE CONTINUING.

IRRIGATION NOTES

- INSTALL CONTROLLER IN ENCLOSURE, GENERALLY WHERE SHOWN ON THE DRAWINGS, HARD WIRE TO 120 VOLT, DEDICATED 20 AMP CIRCUIT, POWER SUPPLY USING LICENSED ELECTRICIAN, ROUTE ALL ZONE AND SPARE WIRES TO CONTROLLER VIA CONDUIT THROUGH ENCLOSURE BASE.
- INSTALL RAIN SENSOR ON OUTSIDE OF CONTROLLER ENCLOSURE. ROUTE RAIN SENSOR WIRING TO CONTROLLER THROUGH ENCLOSURE WALL.
- COORDINATE LOCATION OF ALL EXISTING AND FUTURE UTILITIES ON SITE AND CONTACT PROPER AUTHORITIES AND UTILITY COMPANIES BEFORE THE START OF WORK.
- FLUSH ALL LATERAL LINES BEFORE INSTALLING SPRINKLERS.
- CONTRACTOR MUST SUBMIT SHOP PRODUCT DRAWINGS AS PER THE WRITTEN SPECIFICATIONS TO THE IRRIGATION CONSULTANT FOR APPROVAL PRIOR TO ORDERING MATERIAL AND BEGINNING WORK.
- ANY AND ALL MATERIAL SUBSTITUTIONS WHICH VARY FROM THE SPECIFIED PRODUCTS MUST BE SUBMITTED TO THE IRRIGATION CONSULTANT FOR APPROVAL AS PART OF THE SUBMITTAL PROCESS.
- ONCE APPROVED SUBMITTALS HAVE BEEN RETURNED TO THE CONTRACTOR, WORK MAY BEGIN. THE IRRIGATION CONSULTANT MUST BE NOTIFIED A MINIMUM OF 7-DAYS IN ADVANCE OF THE START OF WORK TO COORDINATE ON-SITE SUPERVISION AND ADMINISTRATION.
- SEE IRRIGATION DETAILS AND SPECIFICATIONS SECTION FOR ADDITIONAL NECESSARY INFORMATION.

IRRIGATION LEGEND

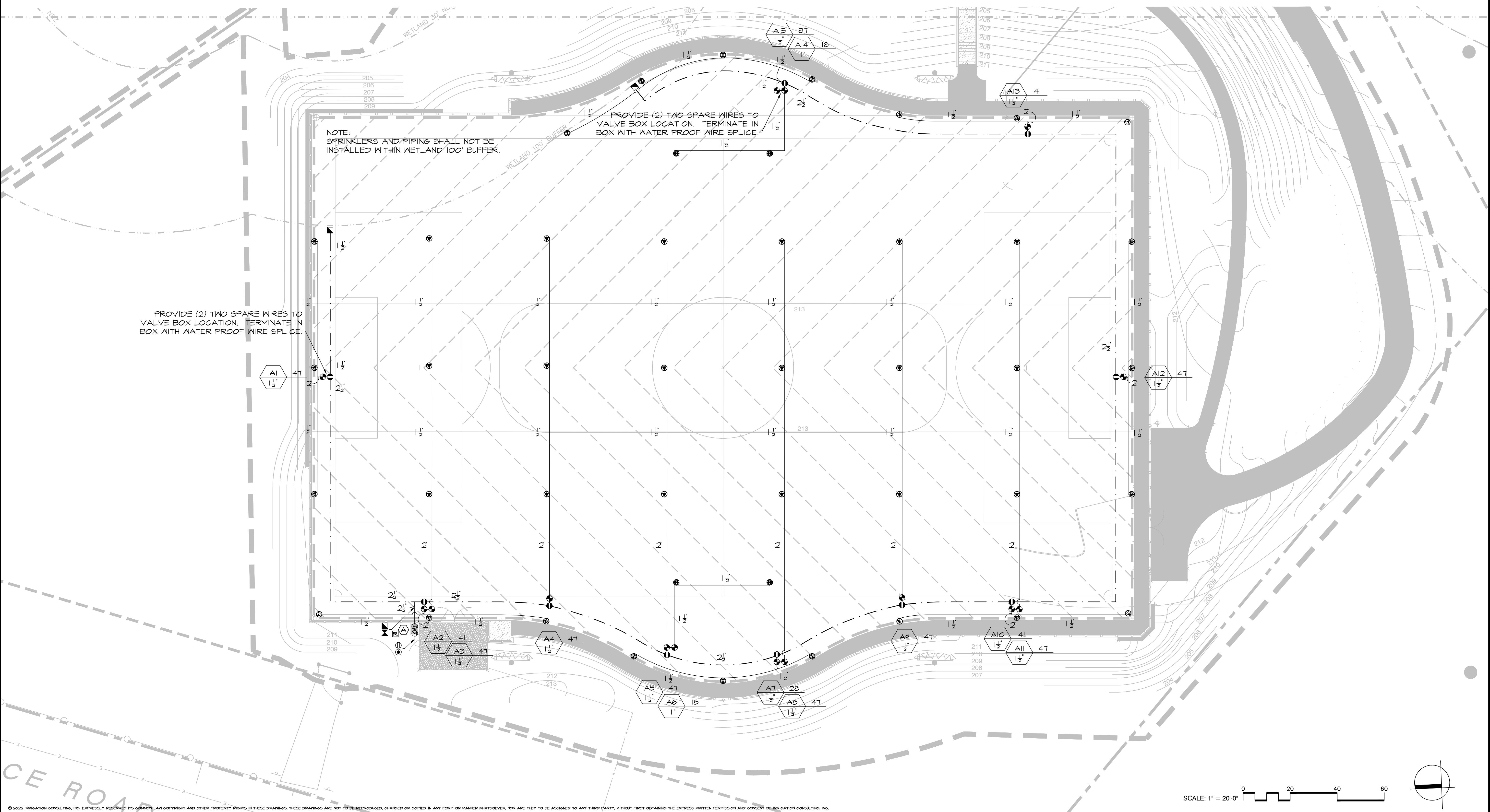
SYMBOL	PSI	SPACING	DESCRIPTION
	60	55'	LARGE ROTARY SPRINKLER WITH CHECK VALVE (STANDARD NOZZLES)
	60	45'	
			24 VOLT ELECTRIC ZONE VALVE (SEE VALVE DESIGNATOR FOR FLOW AND SIZES)
			ISOLATION GATE VALVE (MAINLINE SIZE)
			1" QUICK COUPLING VALVE
			CLASS-200 PVC LATERAL PIPING (SIZE AS INDICATED)
			CLASS-200 PVC MAINLINE PIPING (SIZE AS INDICATED)
			AUTOMATIC CONTROLLER IN PEDESTAL
			AUTOMATIC RAIN SENSOR

IRRIGATION LEGEND

SYMBOL	DESCRIPTION
	IRRIGATION WATER METER
	BACK FLOW PREVENTION DEVICE
	BRONZE GATE VALVE FOR CONTROL VALVES (CONTROL VALVE SIZE)
	2" DRAIN VALVE
	2" CURB STOP

VALVE DESIGNATION:

STATION NO. FLOW VALVE SIZE



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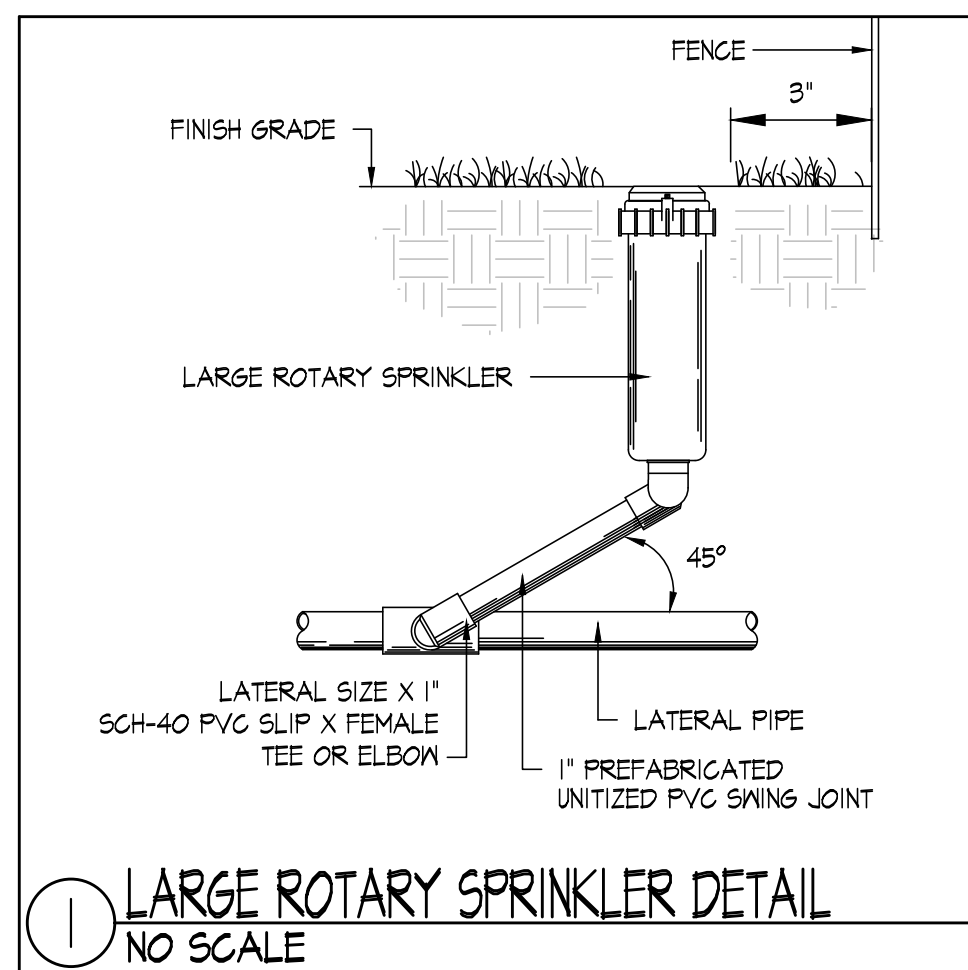
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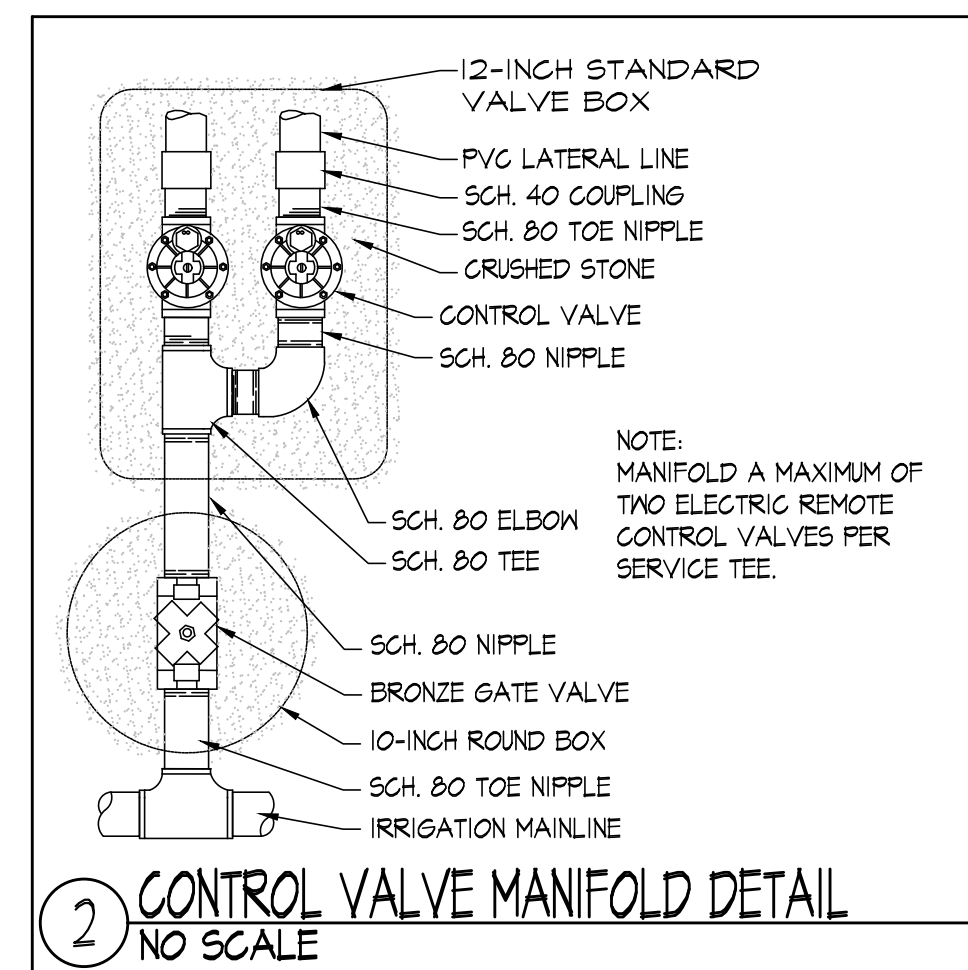
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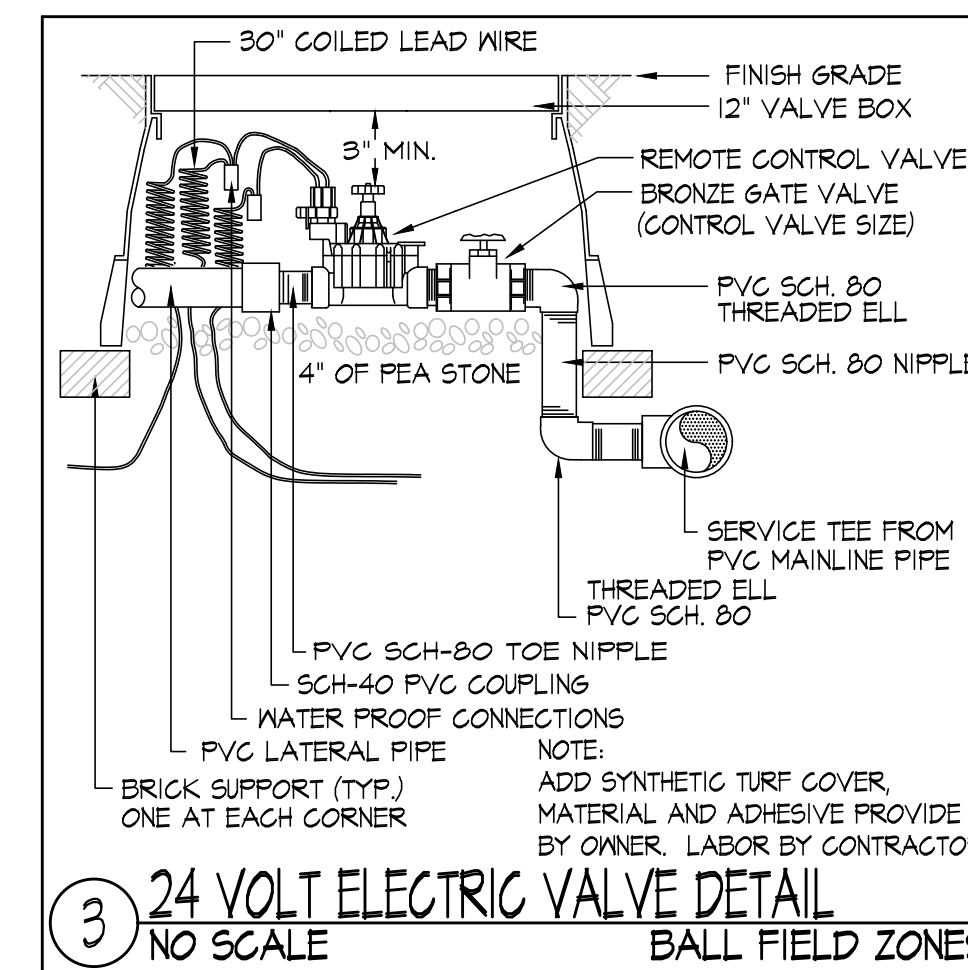
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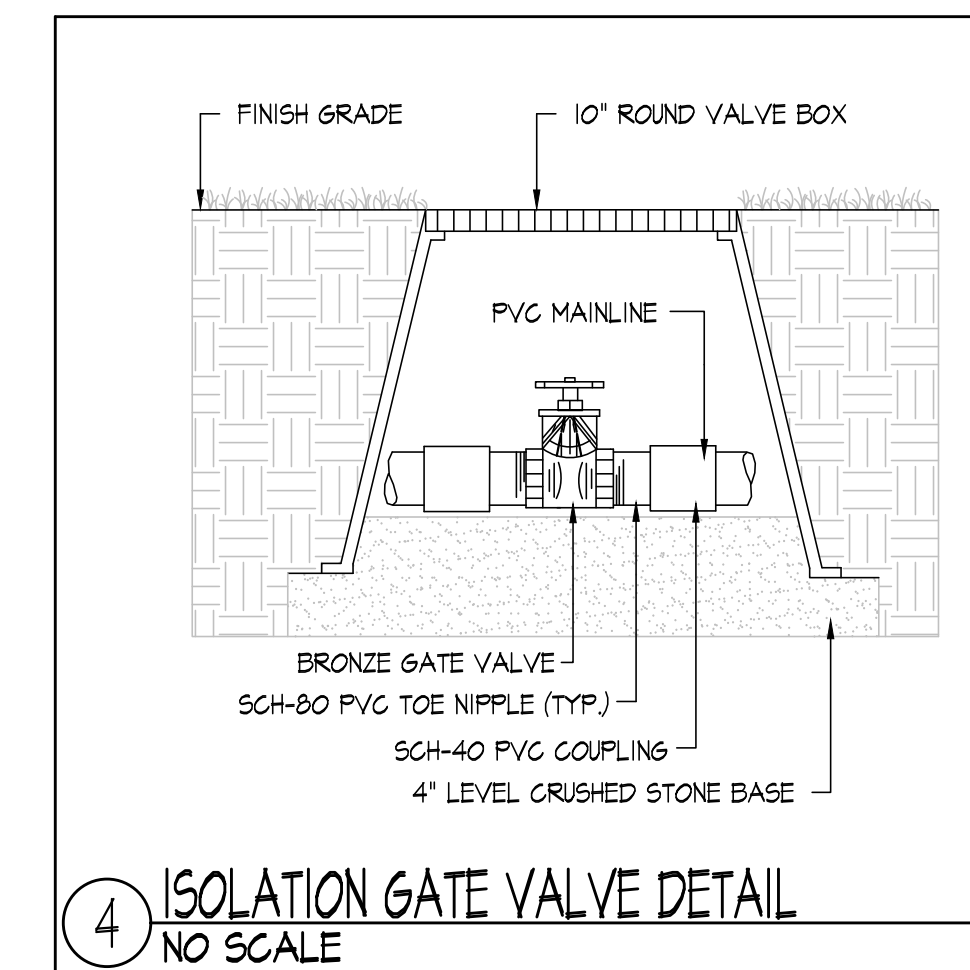
1 LARGE ROTARY SPRINKLER DETAIL
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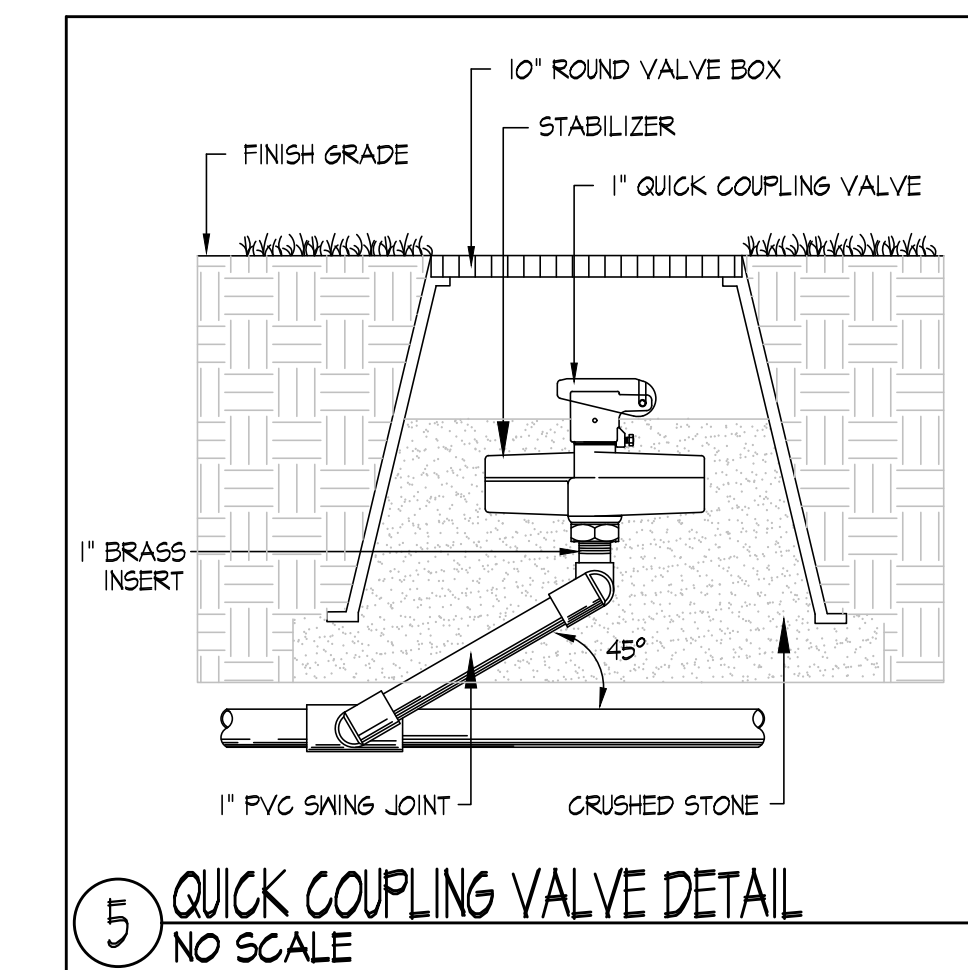
2 CONTROL VALVE MANIFOLD DETAIL
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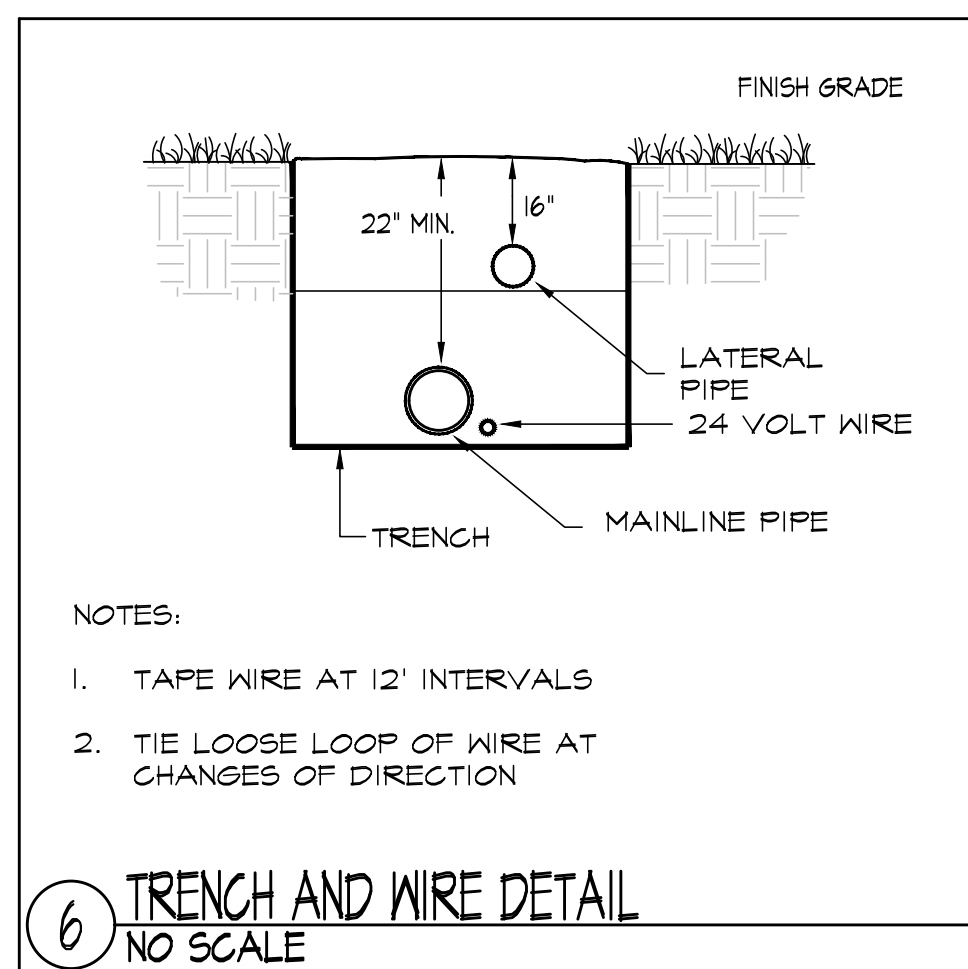
3 24 VOLT ELECTRIC VALVE DETAIL
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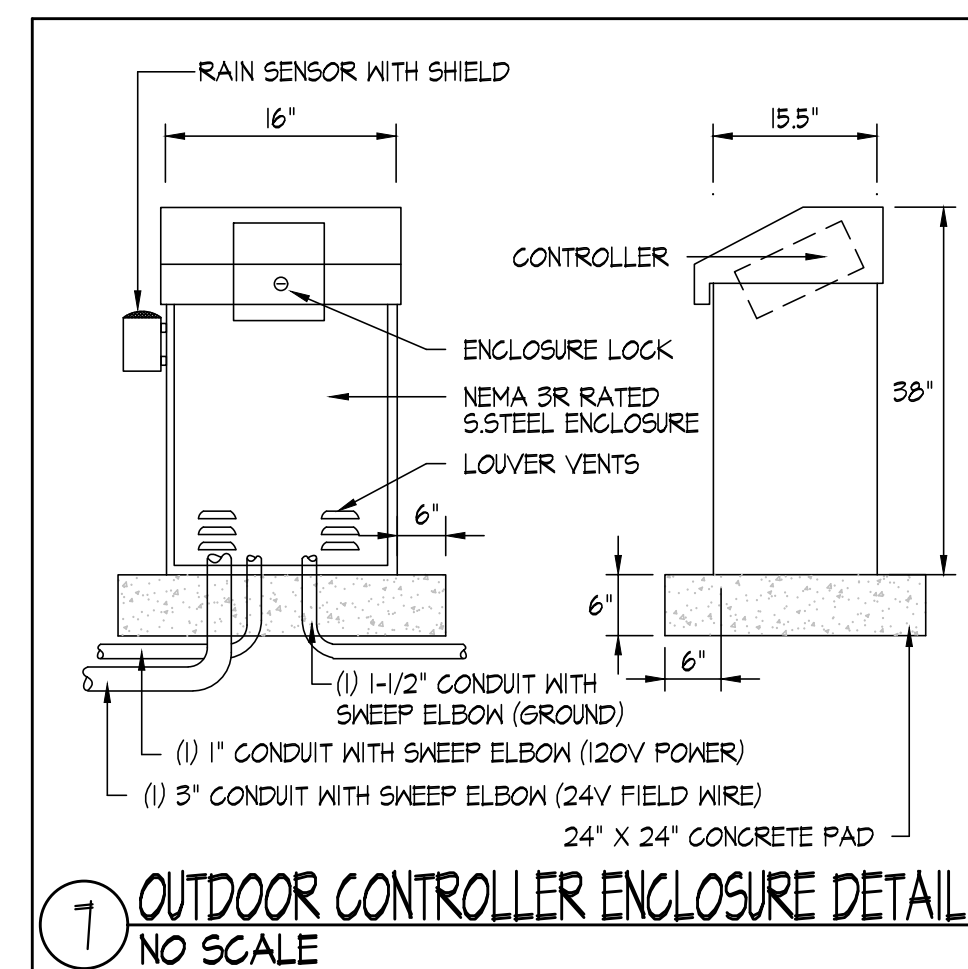
4 ISOLATION GATE VALVE DETAIL
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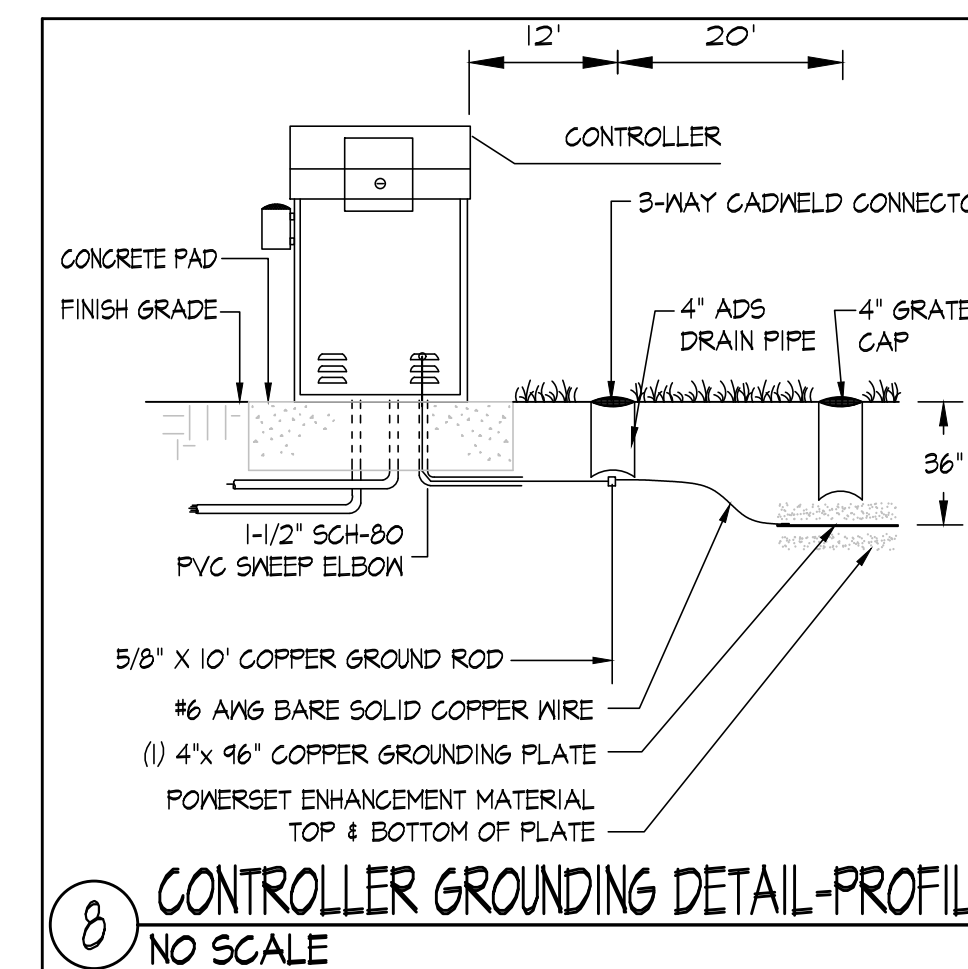
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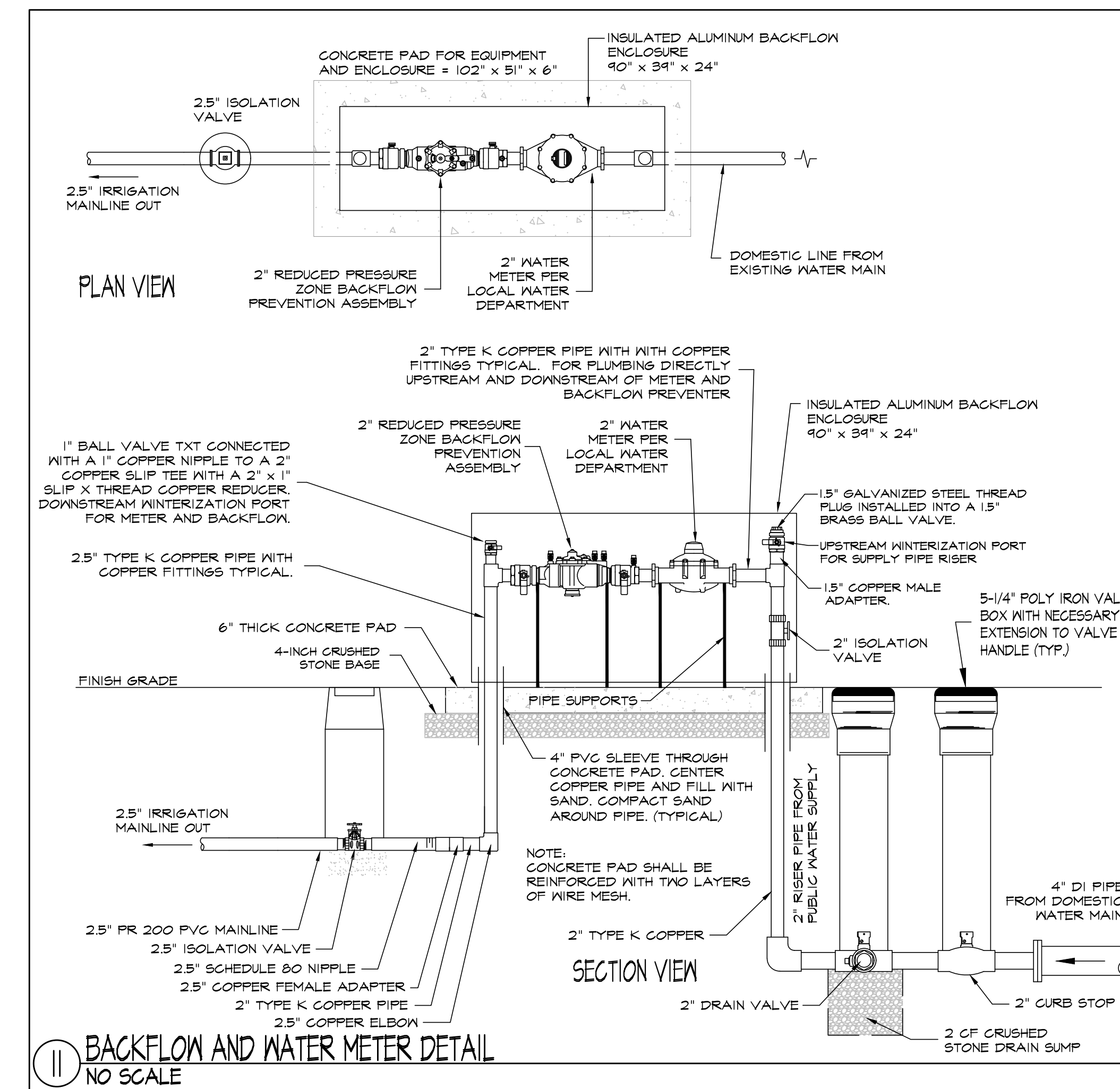
6 TRENCH AND WIRE DETAIL
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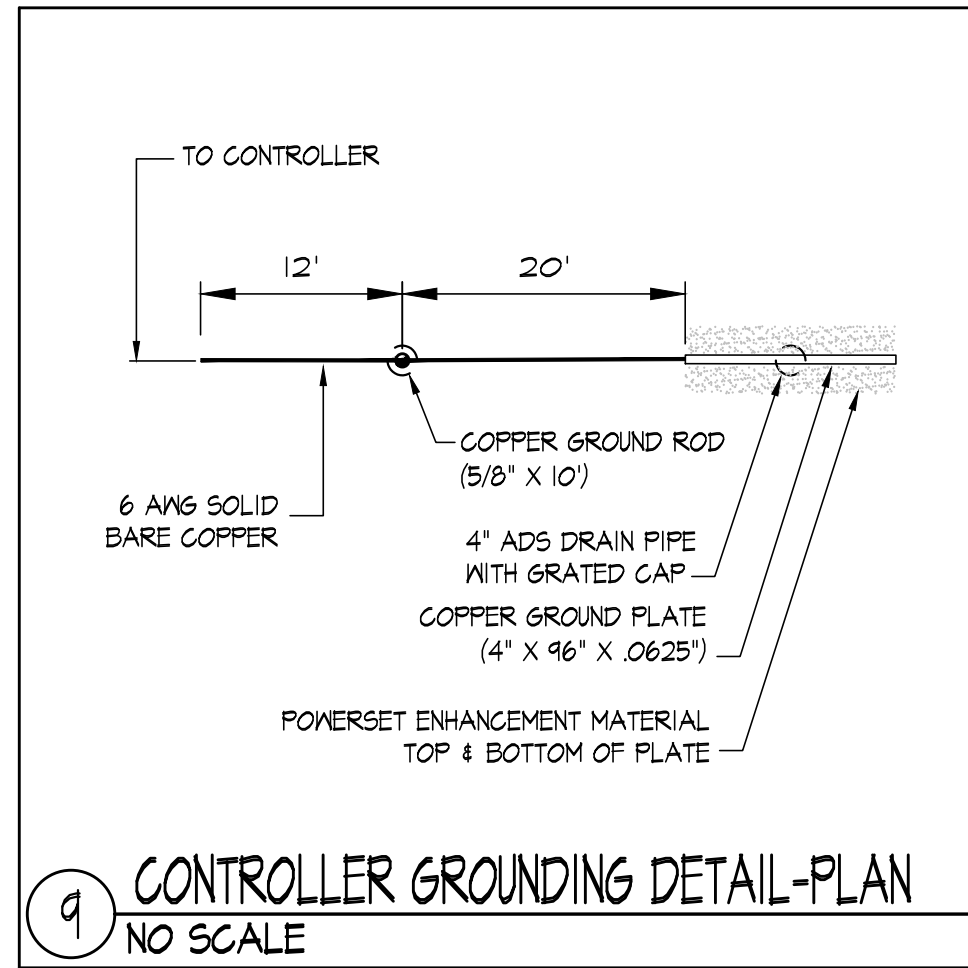
7 OUTDOOR CONTROLLER ENCLOSURE DETAIL
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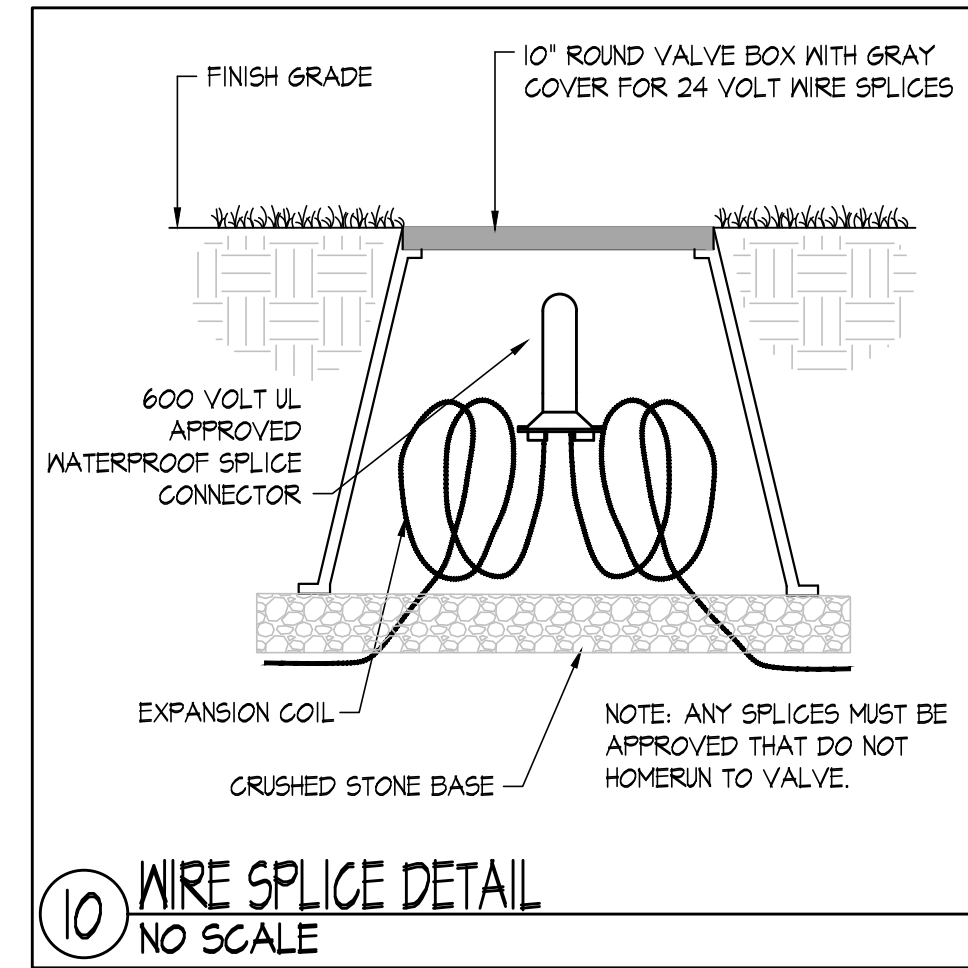
8 CONTROLLER GROUNDING DETAIL-PROFILE
NO SCALE



11 BACKFLOW AND WATER METER DETAIL
NO SCALE



9 CONTROLLER GROUNDING DETAIL-PLAN
NO SCALE



10 WIRE SPLICE DETAIL
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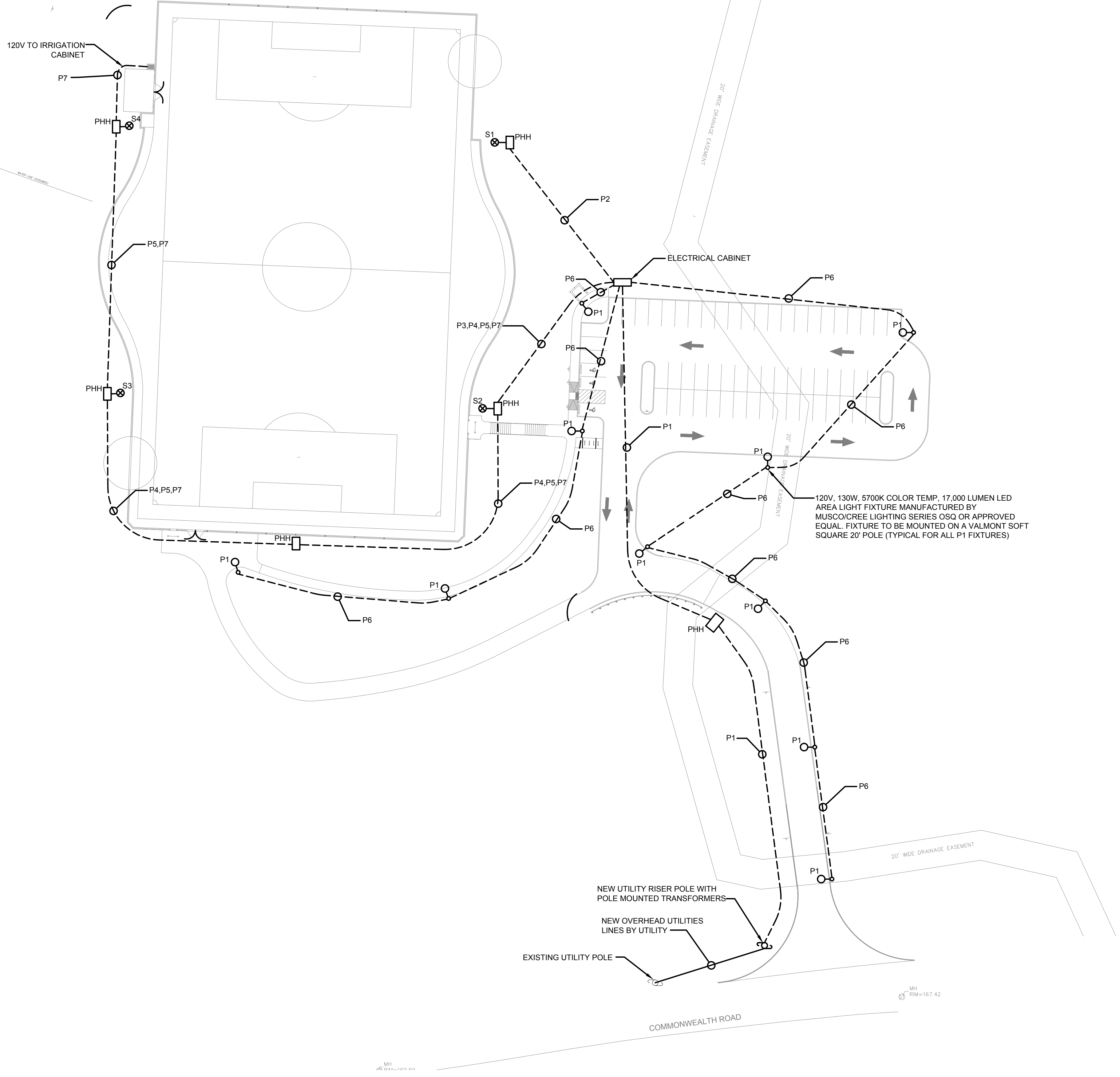
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MH
RM=206.21



ELECTRICAL SITE PLAN
SCALE: 1" = 40'-0"
40 20 0 40 80
SCALE: 1"=40'

CONDUIT & WIRING SCHEDULE

CONDUIT	FEEDER	FROM	CONTACTOR NUMBER	TO	FIXTURES	LOAD	CONTACTOR SIZE	REMARKS
P1	2"C., 4#1 & 1#4GND	UTILITY TRANSFORMER	-	PANEL PPH2	-	100A	-	UNDERGROUND
P2	2"C., 3#10 & 1#10GND	MUSCO LIGHTING CONTROL CABINET NO.3 IN ELECTRICAL CABINET	C1	FIXTURE S1	6 @ 1150W	6.9 KW	30A	
P3	2"C., 3#10 & 1#10GND	MUSCO LIGHTING CONTROL CABINET NO.3 IN ELECTRICAL CABINET	C2	FIXTURE S2	6 @ 1150W	6.9 KW	30A	
P4	1"C., 3#8 & 1#8GND	MUSCO LIGHTING CONTROL CABINET NO.3 IN ELECTRICAL CABINET	C3	FIXTURE S3	6 @ 1150W	6.9 KW	30A	
P5	2"C., 3#8 & 1#8GND	MUSCO LIGHTING CONTROL CABINET NO.3 IN ELECTRICAL CABINET	C4	FIXTURE S4	6 @ 1150W	6.9 KW	30A	
P6	2"C., 2#6 & 1#8GND	PANEL PPL2 IN ELECTRICAL CABINET	-	PARKING LOT LIGHTING	-	-	-	VIA NEW TIME CLOCK ELECTRICAL CABINET
P7	2"C.	PANEL PPL2 IN ELECTRICAL CABINET	-	IRRIGATION CABINET	-	120 V	-	

- DRAWING NOTES:**
- REFER TO DRAWING E0.01 FOR ELECTRICAL LEGEND, ABBREVIATIONS AND GENERAL NOTES.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR DOWNSIZING FEEDERS AT ELECTRICAL DEVICES FOR CONNECTION IN FIELD. FEEDERS HAVE BEEN OVERSIZED FOR VOLTAGE DROP.
 - THE CONTRACTOR SHALL FURNISH & INSTALL A HANDHOLE AT EACH LIGHT POLE BASE FOR TRANSITIONING TO LIGHT POLE RISER CONDUIT. RUN CONDUIT UP POLE APPROXIMATELY 10' TO LIGHT POLE JUNCTION BOX. ADDITIONAL HANDHOLES SHALL BE INSTALLED AS REQUIRED TO FACILITATE THE INSTALLATION OF WIRING. HANDHOLES SHALL NOT BE INSTALLED ON FIELD.

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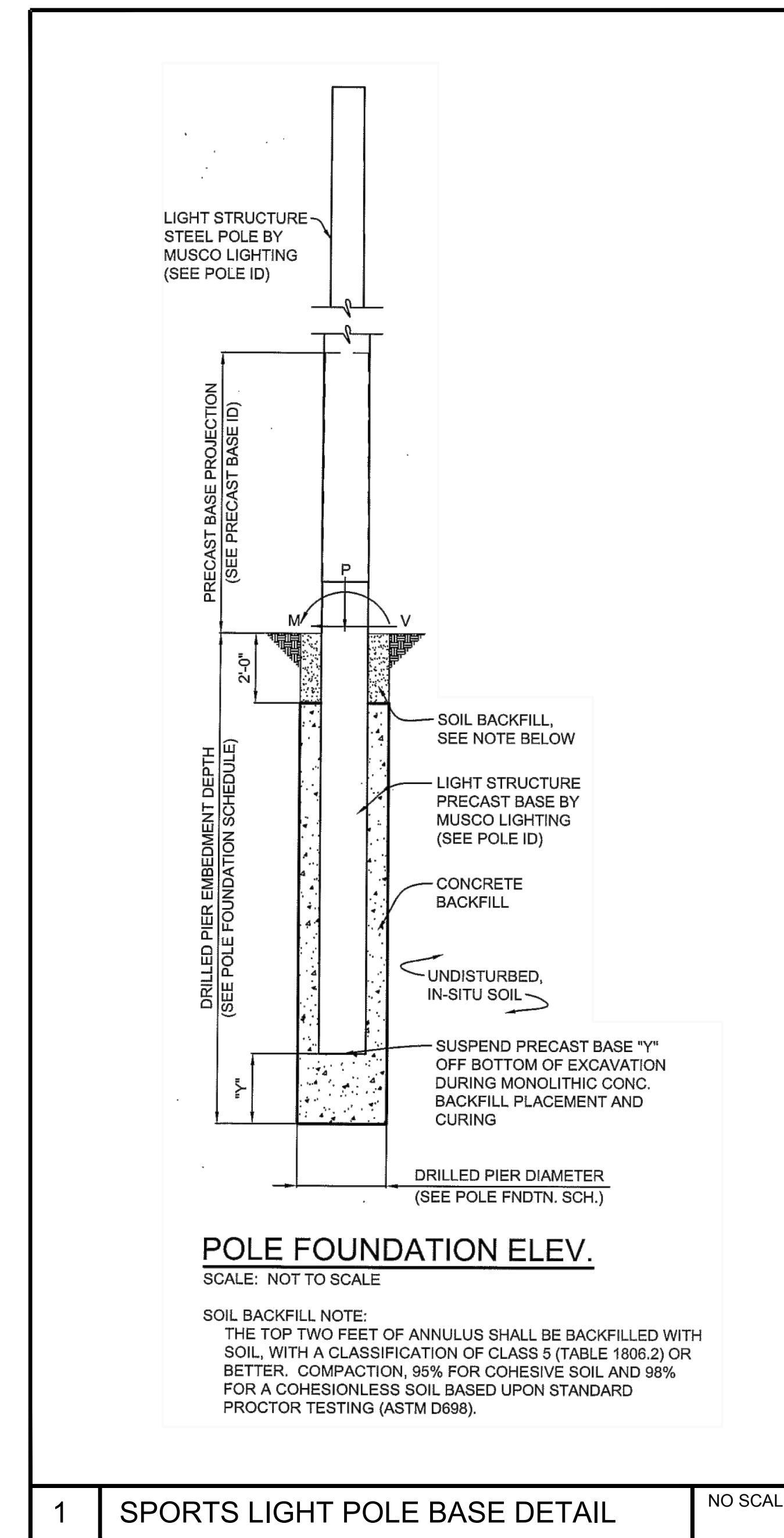
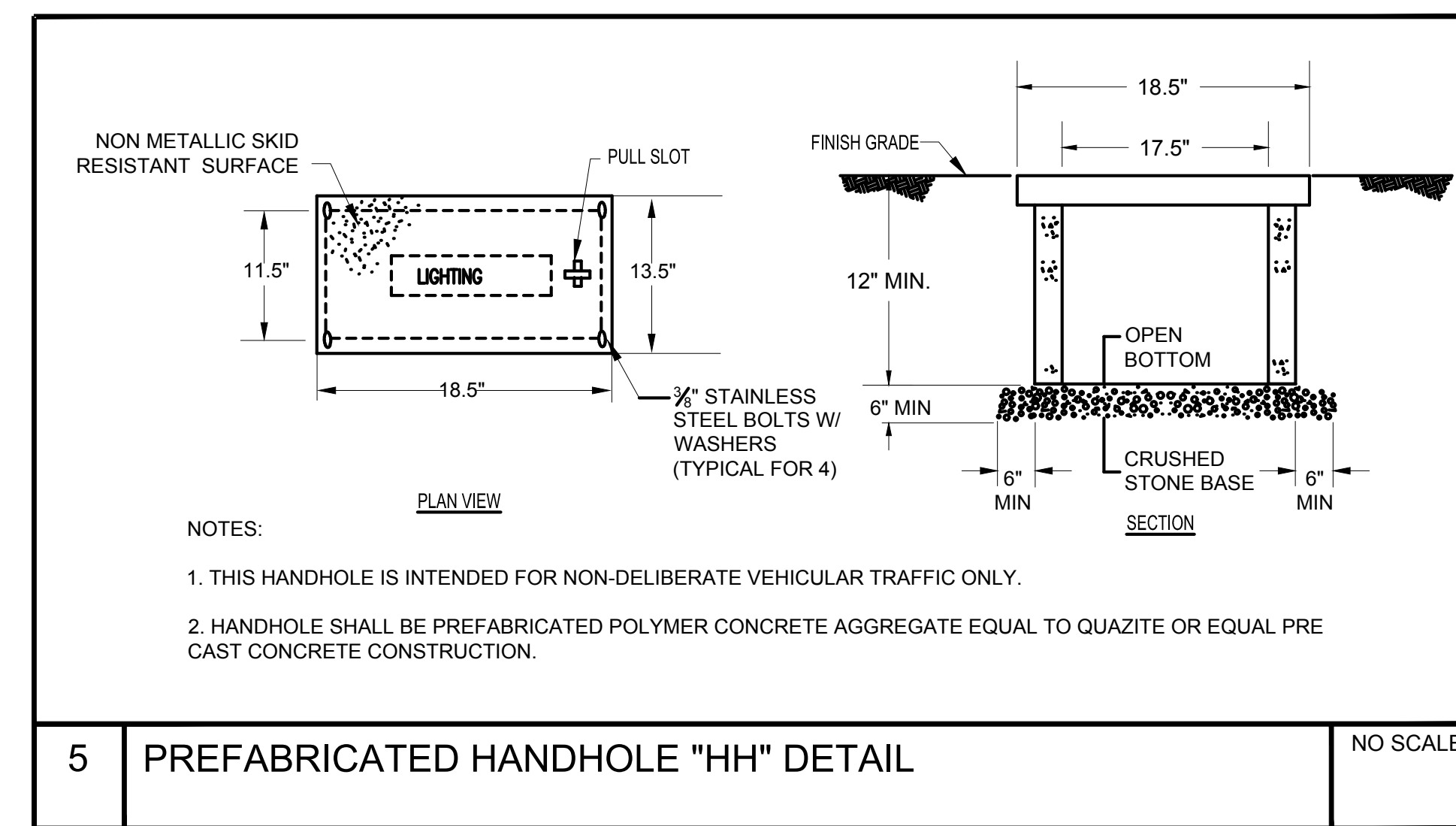
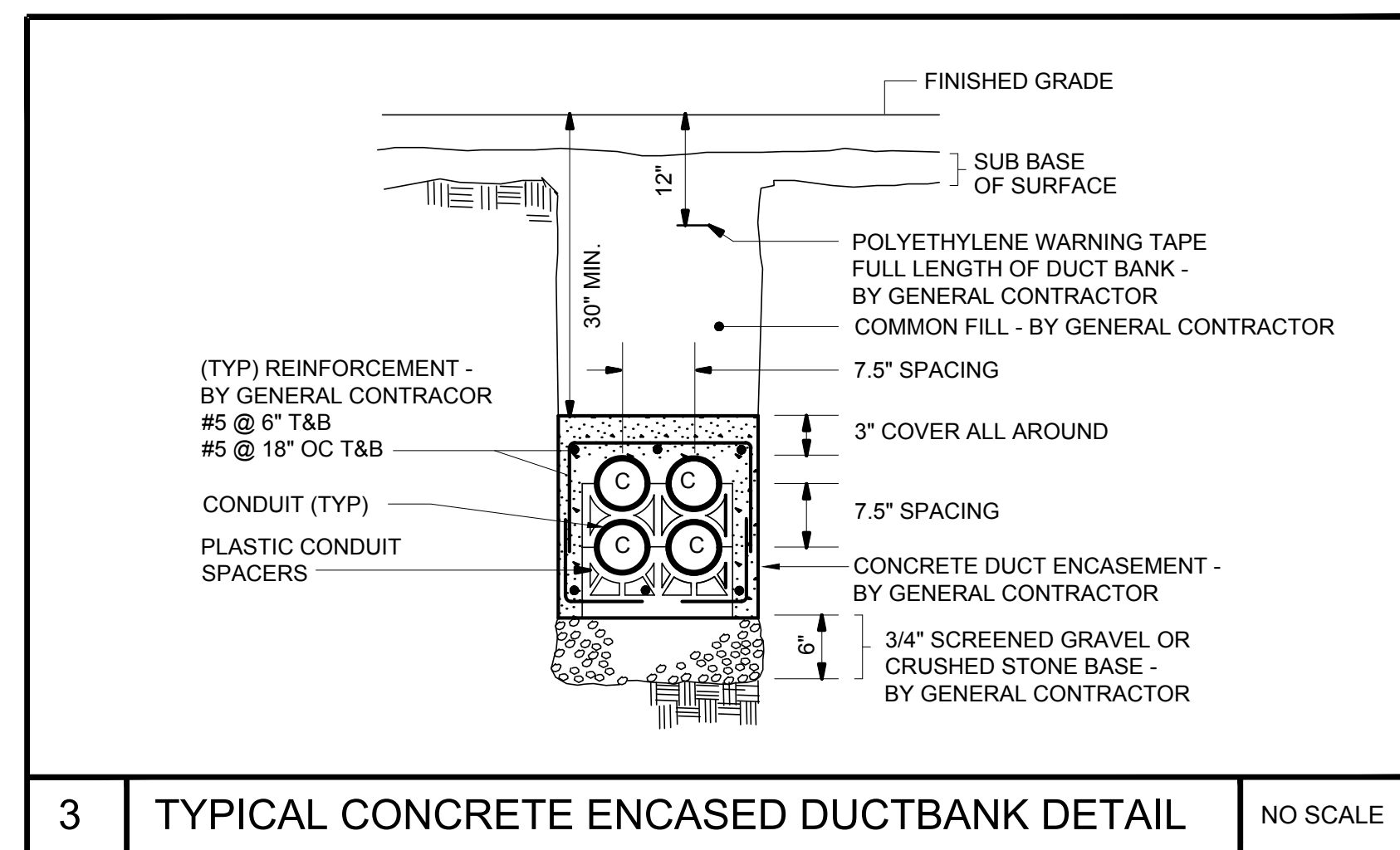
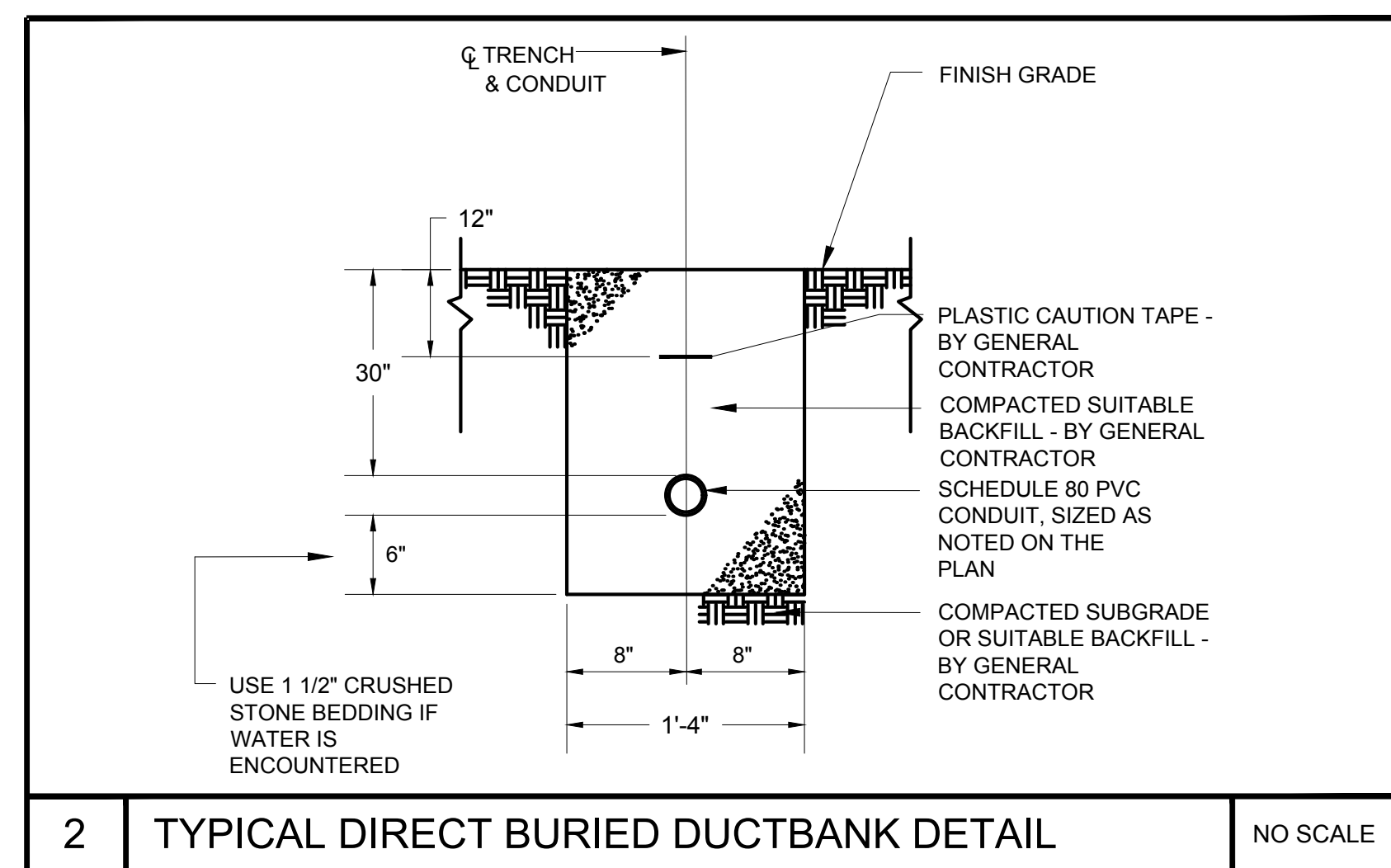
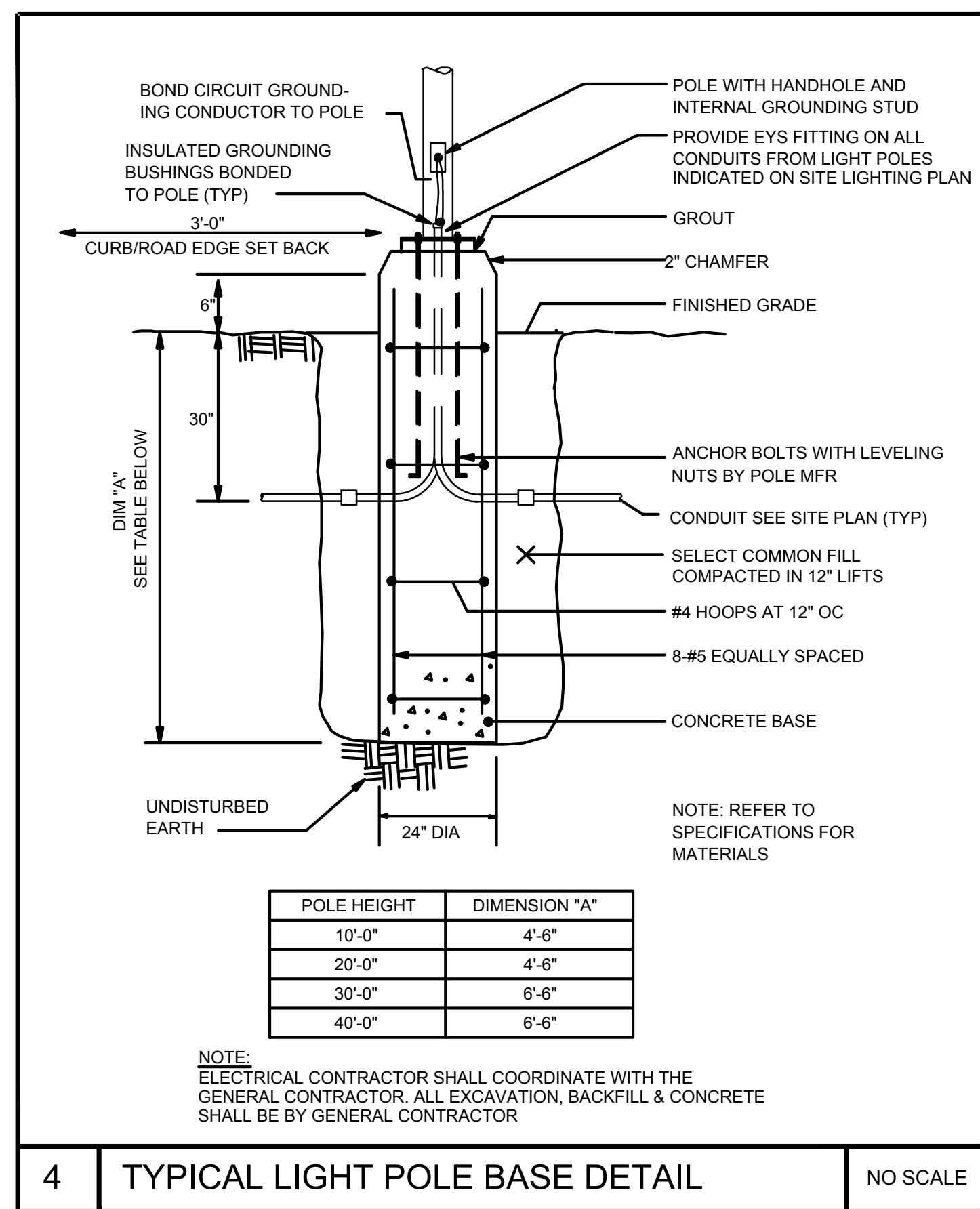
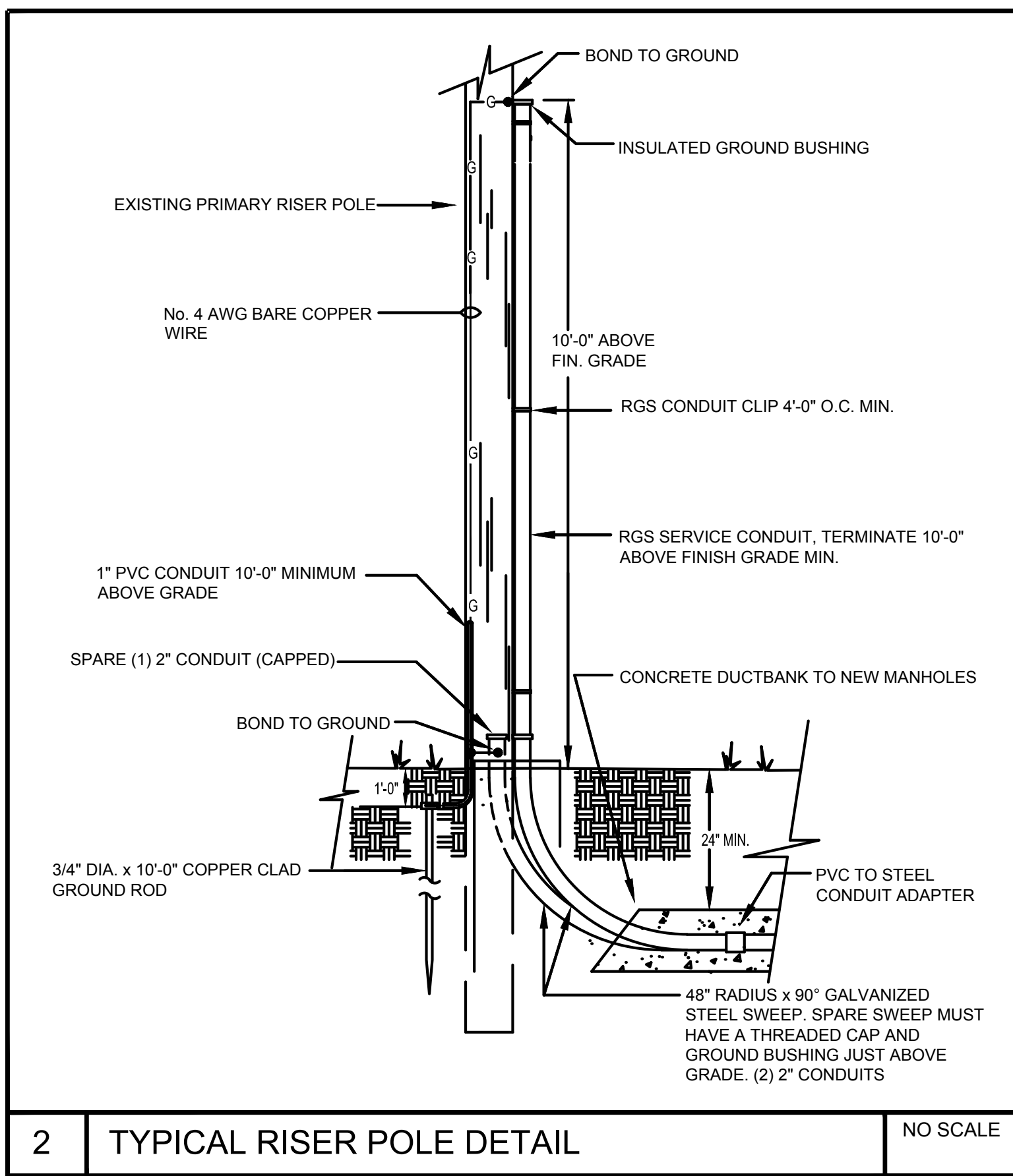
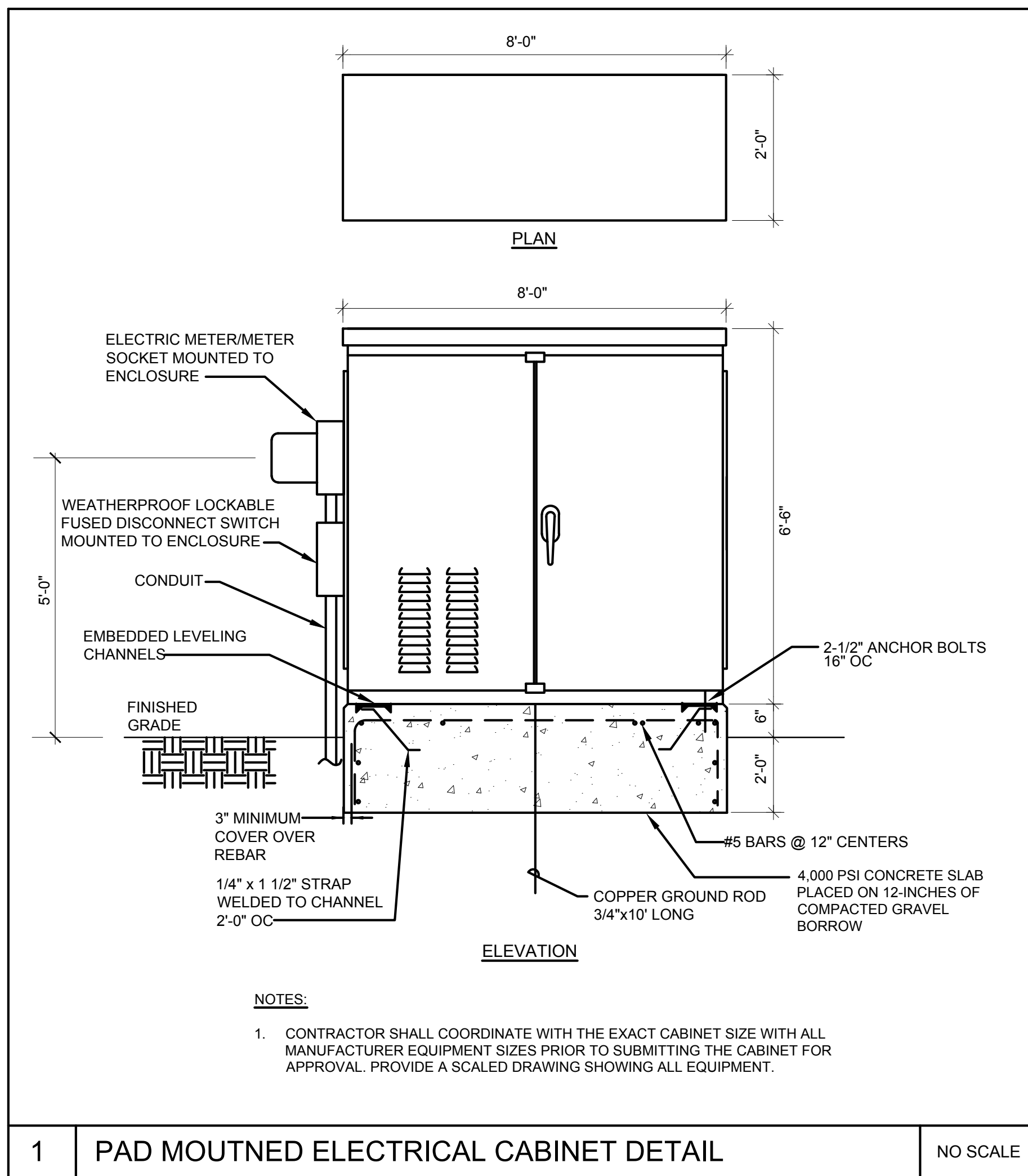
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Sheet Number:
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