



Town of Holden INDUSTRIAL DRIVE ATHLETIC FIELDS & DAWSON RECREATION IMPROVEMENTS

ADD ALTERNATE NO.1

UNDER ADD ALTERNATE NO.1 THE CONTRACTOR SHALL PERFORM ALL WORK, LABOR AND FURNISH MATERIALS NECESSARY TO CONSTRUCT AND INSTALL THE PLAYGROUND AT THE DAWSON RECREATION AREA AS SHOWN ON THE PLANS AND AS SPECIFIED.

ADD ALTERNATE NO.2

UNDER ADD ALTERNATE NO.2, THE CONTRACTOR SHALL PERFORM ALL WORK, LABOR, AND MATERIALS NECESSARY TO CONSTRUCT AND INSTALL THE SYNTHETIC TURF BASEBALL FIELD AT THE DAWSON RECREATION AREA AS SHOWN ON THE PLANS AND AS SPECIFIED.

ADD ALTERNATE NO.3

UNDER ADD ALTERNATE NO.3, THE CONTRACTOR SHALL PERFORM ALL WORK, LABOR, AND MATERIALS NECESSARY TO CONSTRUCT AND INSTALL THE BOARDWALK AND ASSOCIATED TRAILS CONNECTING THE DAWSON RECREATION AREA TO INDUSTRIAL DRIVE AS SHOWN ON THE PLANS AND AS SPECIFIED.

ADD ALTERNATE NO.4

UNDER ADD ALTERNATE NO.4, THE CONTRACTOR SHALL PERFORM ALL WORK, LABOR, AND MATERIALS NECESSARY TO CONSTRUCT AND INSTALL THE ACCESS DRIVE AND HANDICAP PARKING SPACES AT THE DAWSON RECREATION AREA AS SHOWN ON THE PLANS AND AS SPECIFIED.

ADD ALTERNATE NO.5

UNDER ADD ALTERNATE NO.5, THE CONTRACTOR SHALL PERFORM ALL WORK, LABOR, AND MATERIALS NECESSARY TO CONSTRUCT AND INSTALL THE ACCESSIBLE PATH FROM THE PARKING LOT TO THE TENNIS COURTS AT THE DAWSON RECREATION AREA AS SHOWN ON THE PLANS AND AS SPECIFIED.

ADD ALTERNATE NO.6

UNDER ADD ALTERNATE NO.6, THE CONTRACTOR SHALL PERFORM ALL WORK, LABOR, AND MATERIALS NECESSARY TO CONSTRUCT AND INSTALL THE WORKOUT AREA AT INDUSTRIAL DRIVE AS SHOWN ON THE PLANS AND AS SPECIFIED.

ADD ALTERNATE NO.7

UNDER ADD ALTERNATE NO.7, THE CONTRACTOR SHALL PERFORM ALL WORK, LABOR, AND MATERIALS NECESSARY TO INSTALL THE PRE-ENGINEERED SUPPORT BUILDING AS SHOWN ON THE PLANS AND AS SPECIFIED.



ILLUSTRATION IS FOR GRAPHIC PURPOSES ONLY

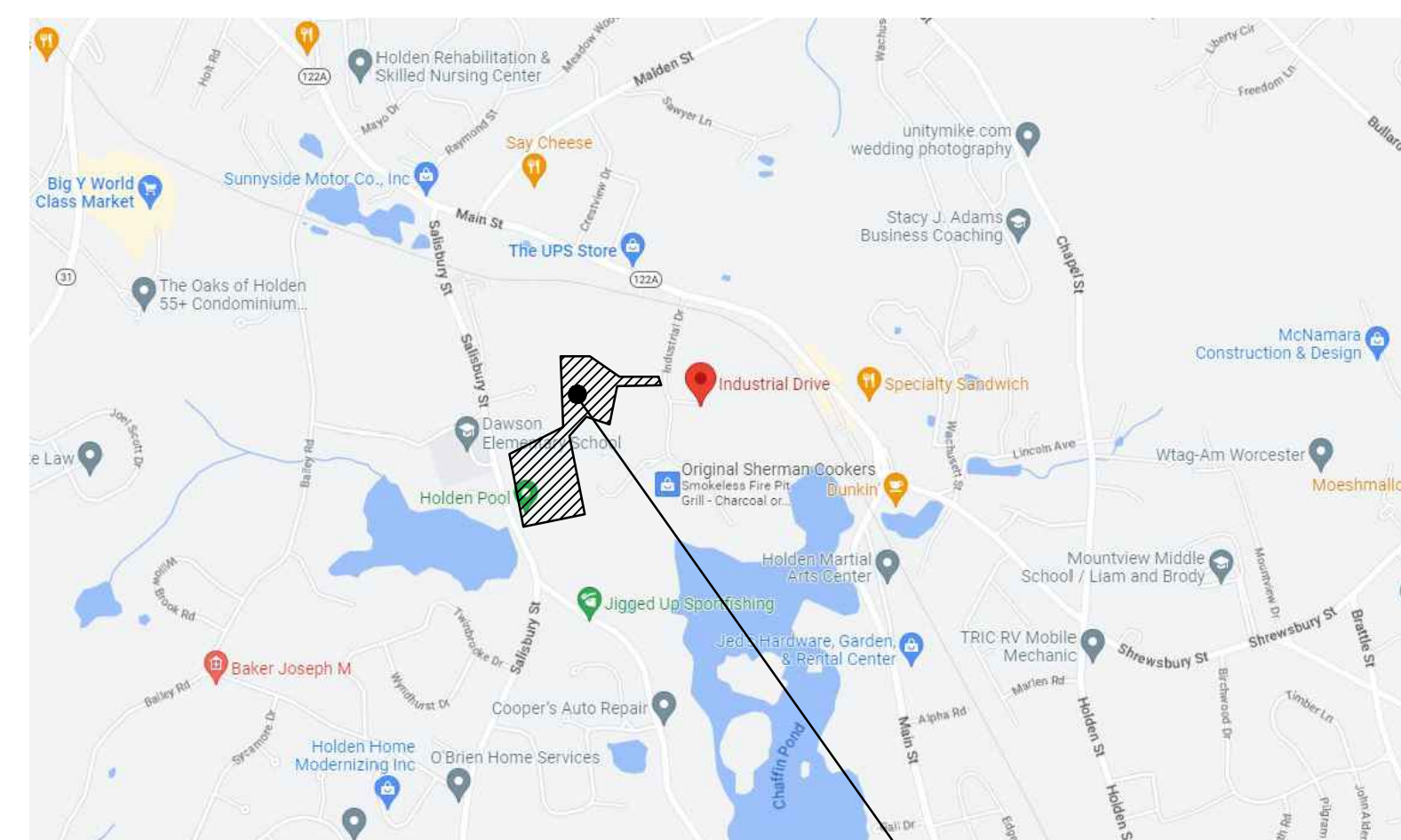
SURVEYOR:

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Locus Map



PROJECT AREA
18 INDUSTRIAL DRIVE &
200 SALISBURY STREET

CONSTRUCTION DOCUMENTS

FEBRUARY 14, 2024

Prepared By



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SURVEY NOTES:

- 1. PROPERTY KNOWN AS LOTS 7, 8, 11, 39, 43 & 48 AS SHOWN ON THE TOWN OF HOLDEN, WORCESTER COUNTY, COMMONWEALTH OF MASSACHUSETTS; MAP NO. 186.
- 2. AREA: LOT 7 = 28,348 SQUARE FEET OR 0.651 ACRES
LOT 8 = 312,002 SQUARE FEET OR 7.163 ACRES
LOT 11 = 108,624 SQUARE FEET OR 2.494 ACRES
LOT 39 = 60,517 SQUARE FEET OR 1.389 ACRES
LOT 43 = 997,225 SQUARE FEET OR 22.89 ACRES
LOT 48 = 71,319 SQUARE FEET OR 1.637 ACRES
TOTAL = 1,578,032 SQUARE FEET OR 36.228 ACRES
- 3. LOCATION OF UNDERGROUND UTILITIES ARE APPROXIMATE. LOCATIONS AND SIZES ARE BASED ON UTILITY MARK-OUTS, ABOVE GROUND STRUCTURES THAT WERE VISIBLE & ACCESSIBLE IN THE FIELD, AND THE MAPS AS LISTED IN THE REFERENCES AVAILABLE AT THE TIME OF THE SURVEY. AVAILABLE ASBULT PLANS AND UTILITY MARKOUT DOES NOT ENSURE MAPPING OF ALL UNDERGROUND UTILITIES AND STRUCTURES. BEFORE ANY EXCAVATION IS TO BEGIN, ALL UNDERGROUND UTILITIES SHOULD BE VERIFIED AS TO THEIR LOCATION, SIZE AND TYPE BY THE PROPER UTILITY COMPANIES. CONTROL POINT ASSOCIATES, INC. DOES NOT GUARANTEE THE UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA EITHER IN SERVICE OR ABANDONED.
THE SOURCE OF UNDERGROUND UTILITIES ARE SHOWN UTILIZING A QUALITY LEVEL SYSTEM:
QUALITY LEVEL D - UTILITIES SHOWN BASED UPON REFERENCE MAPPING OR ORAL HISTORY, NOT FIELD VERIFIED.
QUALITY LEVEL C - LOCATION OF UTILITY SURFACE FEATURES SUPPLEMENTS REFERENCE MAPPING. INCLUDES MARKOUT BY OTHERS.
QUALITY LEVEL B - UTILITY LOCATION DATA IS COLLECTED THROUGH GEOPHYSICAL SENSING TECHNOLOGY TO SUPPLEMENT SURFACE FEATURES AND OR REFERENCE MAPPING. INCLUDES MARKOUT BY CONTROL POINT ASSOCIATES, INC.
QUALITY LEVEL A - HORIZONTAL AND VERTICAL LOCATION OF UTILITIES ARE OBTAINED USING VACUUM EQUIPMENT EXCAVATION OR OTHER METHODS TO EXPOSE THE UTILITY. LOCATION SHOWN AT SINGLE POINT WHERE EXCAVATION OCCURRED UNLESS UTILITY WAS LOCATED PRIOR TO FILLING.
ALL FOUR TYPES MAY NOT BE PRESENT ON THIS SURVEY.
THIS PLAN IS BASED ON INFORMATION PROVIDED BY A SURVEY PREPARED IN THE FIELD BY CONTROL POINT ASSOCIATES, INC. AND OTHER REFERENCE MATERIAL AS LISTED HEREON.
THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT AND IS SUBJECT TO THE RESTRICTIONS, COVENANTS AND/OR EASEMENTS THAT MAY BE CONTAINED THEREIN.
BY GRAPHIC PLOTTING ONLY PROPERTY IS LOCATED IN FLOOD HAZARD ZONE A (AREAS OF 100-YEAR FLOOD; BASE FLOOD ELEVATIONS AND FLOOD HAZARD FACTORS NOT DETERMINED) PER REF. #2
ELEVATIONS REFER TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88), BASED ON GPS OBSERVATIONS UTILIZING THE KEYSTONE VRS NETWORK (KEYNETGPS).
TEMPORARY BENCH MARKS SET:
TBM-A: X-CUT ON HYDRANT BOLT. ELEVATION = 722.83
TBM-B: MAG NAIL IN ASPHALT PAVEMENT. ELEVATION = 732.95
PRIOR TO CONSTRUCTION IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THAT THE BENCHMARKS ILLUSTRATED ON THIS SKETCH HAVE NOT BEEN DISTURBED AND THEIR ELEVATIONS HAVE BEEN CONFIRMED. ANY CONFLICTS MUST BE REPORTED PRIOR TO CONSTRUCTION.
THE OFFSETS SHOWN ARE NOT TO BE USED FOR THE CONSTRUCTION OF ANY STRUCTURE, FENCE, PERMANENT ADDITION, ETC.
THE DELINEATION LINE WAS PLACED IN THE FIELD BY WESTON & SAMPSON IN NOVEMBER, 2022, AND FIELD LOCATED BY CONTROL POINT ASSOCIATES, INC. ON DECEMBER 15, 2022.

REFERENCES:

- 1. THE TAX ASSESSOR'S MAP OF HOLDEN, WORCESTER COUNTY, SHEET #186.
- 2. MAP ENTITLED "NATIONAL FLOOD INSURANCE PROGRAM, FIRM, FLOOD INSURANCE RATE MAP, TOWN OF HOLDEN, MASSACHUSETTS, WORCESTER COUNTY, PANEL 16 OF 20," COMMUNITY-PANEL NUMBER 250309 0015 B, EFFECTIVE DATE: JULY 2, 1981.
- 3. MAP ENTITLED "HOLDEN INDUSTRIAL PARK PLAN OF INDUSTRIAL DR & PROPERTIES HOLDEN MASS OWNED BY WORCESTER BUSINESS DEVELOPMENT CORPORATION" PREPARED BY THOMPSON - LISTON ASSOCIATES INC, DATED AUGUST 6, 1969. RECORDED IN THE WORCESTER COUNTY REGISTRY OF DEEDS AS PLAN BOOK 322, PLAN 110.
- 4. MAP ENTITLED "PLAN OF LAND TO BE CONVEYED BY LEWIS S. TOOMBS TO REED ROLLED THREAD DIE CO. OFF S.MAIN ST. HOLDEN MASS" PREPARED BY ROBINSON ENGINEERING, INC. DATED SEPTEMBER 27, 1950. RECORDED IN THE WORCESTER COUNTY REGISTRY OF DEEDS AS PLAN BOOK 129, PLAN 139.
- 5. DOT REFERENCE SHEET, LAYOUT NO. 8340.
- 6. MAP ENTITLED "PLAN OF LAND IN HOLDEN, MASS., PREPARED FOR REED ROLLED THREAD DIE CO.," PREPARED BY BOSTON SURVEY CONSULTANTS, INC., DATED OCTOBER 18, 1984.
- 7. MAP ENTITLED "PLAN OF LAND OF TOWN OF HOLDEN IN HOLDEN, MASS.," PREPARED BY ROBINSON & FOX, RECORDED IN THE WORCESTER COUNTY REGISTRY OF DEEDS AS PLAN BOOK 288, PLAN 40.
- 8. MAP ENTITLED "PLAN OF LAND, HOLDEN, MASS (WORCESTER COUNTY)," PREPARED BY HARRY R. FELDMAN, INC., DATED DECEMBER 27, 1989. RECORDED IN THE WORCESTER COUNTY REGISTRY OF DEEDS AS PLAN BOOK 631, PLAN 27.
- 9. MAP ENTITLED "PLAN OF SALISBURY STREET IN THE TOWN OF HOLDEN, WORCESTER COUNTY, ALTERED AND LAID OUT AS A COUNTY ROAD BY THE COUNTY COMMISSIONERS," PREPARED BY THE COUNTY COMMISSIONER'S OFFICE, DATED JANUARY 17, 1947. SEVEN SHEETS. RECORDED IN THE WORCESTER COUNTY REGISTRY OF DEEDS AS PLAN BOOK 143, PLAN 83.

FLOOD PLAIN NOTES:

- 1. THE LIMIT OF THE CALCULATED 100 YEAR FLOOD PLAIN IS BASED ON CALCULATION DONE BY WESTON & SAMPSON.

GENERAL NOTES

- 1. LOCATIONS OF ANY UTILITIES SHOWN ON THIS PLAN ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND 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 (881) NO LESS THAN 72 HOURS, (EXCLUSIVE OF WEEKENDS AND HOLIDAYS), PRIOR TO SUCH EXCAVATION. DOCUMENTATION OF REQUESTS SHALL BE PROVIDED TO PROJECT REPRESENTATIVE PRIOR TO EXCAVATION WORK.
- 2. CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING ALL DRAWINGS AND SPECIFICATIONS TO DETERMINE THE EXTENT OF EXCAVATION AND DEMOLITION REQUIRED TO RECEIVE SITE IMPROVEMENTS.
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE SITE AND REVIEWING THE DRAWINGS AND ASSUMES RESPONSIBILITY OF VERIFYING ALL EXISTING CONDITIONS AND MATERIALS SHOWN WITHIN THE PROJECT CONTRACT LIMITS.
- 4. 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 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.
- 5. ANY ALTERATIONS TO THESE DRAWINGS MADE IN THE FIELD DURING CONSTRUCTION SHALL BE RECORDED BY THE GENERAL CONTRACTOR ON "AS-BUILT" DRAWINGS.
- 6. 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 TO AND TO THE SATISFACTION OF THE OWNER.
- 7. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THEIR EMPLOYEES, AS WELL AS PUBLIC USERS FROM INJURY DURING THE ENTIRE CONSTRUCTION PERIOD USING ALL NECESSARY SAFEGUARDS, INCLUDING BUT NOT LIMITED TO, TEMPORARY WALKS, STRUCTURES, PROTECTIVE BARRIERS, COVERING, OR FENCES AS NEEDED.
- 8. THE CONTRACTOR SHALL SUPPLY THE OWNER WITH THE NAME OF THE OSHA "COMPETENT PERSON" PRIOR TO CONSTRUCTION.
- 9. FILLING OF EXCAVATED AREAS SHALL NOT TAKE PLACE WITHOUT THE PRESENCE OR PERMISSION OF THE OWNER.
- 10. 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 ENGINEER, THE CONTRACTOR SHALL ERECT TEMPORARY BARRIERS FOR THE PROTECTION OF EXISTING TREES DURING CONSTRUCTION.
- 11. NO FILLING SHALL OCCUR AROUND EXISTING TREES TO REMAIN WITHOUT THE APPROVAL OF THE OWNER OR OWNER'S REPRESENTATIVE.
- 12. 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 PRIOR TO SUBMITTING BID.
- 13. THE LAYOUT OF ALL NEW WALKWAYS AND THE GRADING OF ALL SLOPES AND CROSS SLOPES SHALL CONFORM TO THE COMMONWEALTH OF MASSACHUSETTS RULES AND REGULATIONS FOR HANDICAP ACCESS CMR 821, AND THE AMERICANS WITH DISABILITIES ACT (ADA), TITLE 3. THE CONTRACTOR SHALL NOTIFY THE OWNER IMMEDIATELY OF ANY DISCREPANCIES BETWEEN ACTUAL CONDITIONS AND THOSE REQUIRED.
- 14. 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.
- 15. CONTRACTOR'S STAGING AREA MUST BE WITHIN THE CONTRACT LIMIT LINE. ANY OTHER AREAS THAT THE CONTRACTOR MAY WISH TO USE FOR STAGING MUST BE COORDINATED WITH THE OWNER.

SITE PREPARATION & DEMOLITION NOTES

- 1. THE CONTRACTOR SHALL INCLUDE IN THE BID THE COST OF REMOVING ANY EXISTING SITE FEATURES AND APURTENANCES 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, DEMOLITION AND TO DETERMINE THE LOCATION OF THE PROPOSED SITE IMPROVEMENTS.
- 2. 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 AT NO ADDITIONAL COST.
- 3. UNLESS SPECIFICALLY NOTED TO BE REMOVED / SALVAGED (R&S), ALL SITE FEATURES CALLED FOR REMOVAL (REM) 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.
- 4. 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'S REPRESENTATIVE AT NO ADDITIONAL COST.
- 5. 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.
- 6. IT SHALL BE THE CONTRACTOR'S OPTION, WITH CONCURRENCE OF THE OWNER, TO REUSE EXISTING GRAVEL IF IT MEETS THE REQUIREMENTS OF THE SPECIFICATIONS FOR GRAVEL BORROW.
- 7. TREES DESIGNATED FOR REMOVAL SHALL BE TAGGED BY CONTRACTOR AND APPROVED BY OWNERS REPRESENTATIVE PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- 8. 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.
- 9. LOAM / TOP SOIL DESIGNATED FOR REUSE AS GENERAL FILL SHALL BE BLENDED WITH SUITABLE BORROW MATERIAL AS SPECIFIED.
- 10. THE CONTRACTOR SHALL PROTECT EXISTING TREES TO REMAIN, CONTRACTOR SHALL INSTALL TREE PROTECTION BARRIER AFTER CLEARING UNDERBRUSH AND TAKE DUE CARE TO PREVENT INJURY TO TREES DURING CLEARING OPERATIONS.

MATERIALS NOTES

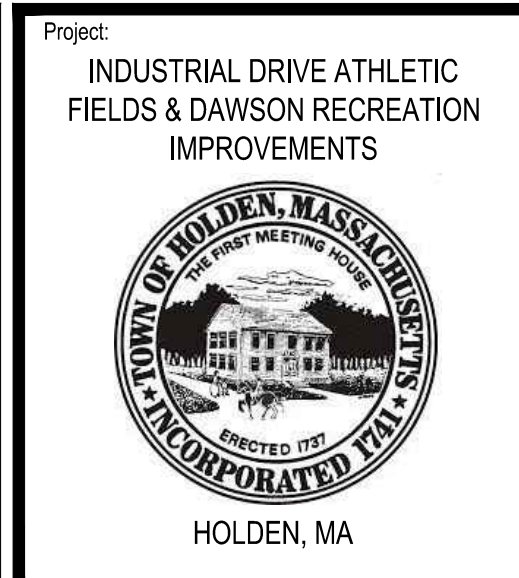
- 1. REFER TO EXISTING CONDITIONS PLAN FOR SURVEY INFORMATION.
- 2. REFER TO PLANTING PLAN FOR PLANT TYPES AND LOCATIONS.
- 3. ALL PROPOSED PAVEMENTS SHALL MEET THE LINE AND GRADE OF EXISTING ADJACENT PAVEMENT SURFACES AND ALL SAWCUT EDGES WHERE PROPOSED PAVEMENT MEETS EXISTING PAVEMENT. ALL PATHWAY WIDTHS SHALL BE AS NOTED ON THE LAYOUT PLAN.
- 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD MEASUREMENT OF ALL PROPOSED FENCES AND GATES.
- 5. ALL REFERENCES TO LOAM AND SEED REFER TO HYDROMULCH SEEDED LAWN.
- 6. ALL LOCATIONS WHERE POURED-IN-PLACE RUBBER SAFETY SURFACING MEETS PLANTED VEGETATION, BITUMINOUS CONCRETE OR CONCRETE PAVERS SHALL HAVE A CONCRETE MOWSTRIP BETWEEN SURFACES.

LAYOUT & MATERIALS NOTES

- 1. REFER TO EXISTING CONDITIONS PLANS FOR SURVEY INFORMATION (SHEET L100 & L101).
- 2. 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.
- 3. ALL WORK SHALL BE PERFORMED BY CONTRACTOR UNLESS SPECIFICALLY INDICATED THAT THE WORK WILL BE PERFORMED 'BY OTHERS' OR 'UNDER SEPARATE CONTRACT'.
- 4. TO FACILITATE LAYOUT OF PROPOSED SITE FEATURES AND FACILITIES, LAYOUT INFORMATION FOR CERTAIN FUTURE WORK, WHICH IS NOT INCLUDED WITHIN THE SCOPE OF THIS CONTRACT HAS BEEN PROVIDED ON THE LAYOUT AND MATERIALS PLAN FOR INFORMATION ONLY. SOME ITEMS ARE "NOT IN CONTRACT" (NIC) AND SHOWN FOR REFERENCE ONLY.
- 5. THE LAYOUT OF SITE AMENITIES AND FENCES MUST BE APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
- 6. THE LAYOUT OF ALL NEW PATHWAYS / WALKWAYS AND THE GRADING OF ALL SLOPES AND CROSS SLOPES SHALL CONFORM TO THE COMMONWEALTH OF MASSACHUSETTS RULES AND REGULATIONS FOR HANDICAP ACCESS CMR 821, AND THE AMERICANS WITH DISABILITIES ACT (ADA), TITLE 3. THE CONTRACTOR SHALL NOTIFY THE OWNER IMMEDIATELY OF ANY DISCREPANCIES BETWEEN ACTUAL CONDITIONS AND THOSE REQUIRED.
- 7. ALL LAYOUT LINES, OFFSETS, OR REFERENCES TO LOCATING OBJECTS ARE EITHER PARALLEL OR PERPENDICULAR UNLESS OTHERWISE DESIGNATED WITH ANGLE OFFSETS NOTED.
- 8. 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 LAYOUT SHALL BE PERFORMED BY A MA REGISTERED PROFESSIONAL LAND SURVEYOR.
- 9. ALL PROPOSED PAVEMENTS SHALL MEET THE LINE AND GRADE OF EXISTING ADJACENT PAVEMENT SURFACES. ALL BITUMINOUS CONCRETE 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.
- 10. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND GRADES ON THE GROUND AND REPORT ANY DISCREPANCIES IMMEDIATELY TO THE OWNER.
- 11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD MEASUREMENT OF ALL PROPOSED FENCES AND GATES.
- 12. THE DEPTH OF LOAM BORROW FOR ALL PROPOSED LAWN AREAS SHALL BE 6" MINIMUM. ALL DISTURBED AREAS SHALL BE RESTORED WITH LOAM AND SEED UNLESS OTHERWISE NOTED
- 13. SURVEY CONTROL POINTS AND COORDINATES ARE INDICATED ON THE PLANS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT OR CREATE HIS OWN PROTECTED CONTROL POINTS FROM THIS INFORMATION. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING ALL LAYOUT POINTS ARE CONSISTENT WITH CONTROL INFORMATION. RESETTING OF DAMAGED OR MISSING LAYOUT MARKERS AS NECESSARY IS AT NO ADDITIONAL COST TO THE OWNER.

GRADING, UTILITIES & DRAINAGE NOTES

- 1. ALL WORK RELATING TO INSTALLATION, RENOVATION OR MODIFICATION OF WATER, DRAINAGE AND/OR SEWER SERVICES SHALL BE PERFORMED IN ACCORDANCE WITH THE STANDARDS OF THE TOWN OF HOLDEN.
- 2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND GRADES ON THE GROUND AND REPORT ANY DISCREPANCIES IMMEDIATELY TO THE OWNER.
- 3. ALL GRADING IS TO BE SMOOTH AND CONTINUOUS WHERE PROPOSED SURFACES MEET EXISTING SURFACES. ELIMINATE ROUGH SPOTS AND ABRUPT GRADE CHANGES AND MEET LINE AND GRADE OF EXISTING CONDITIONS WITH NEW IMPROVEMENTS.
- 4. CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE (1.5% MINIMUM) AWAY FROM ALL BUILDING FOUNDATIONS AND STRUCTURES.
- 5. CONTRACTOR SHALL ENSURE ALL AREAS ARE PROPERLY PITCHED TO DRAIN, WITH NO SURFACE WATER PONDING OR PUDDLING.
- 6. ALL NEW WALKWAYS / ACCESS PATHS MUST CONFORM TO CURRENT AMERICANS WITH DISABILITIES ACT (ADA) REGULATIONS: WALKWAYS SHALL MAINTAIN A CROSS PITCH OF NOT MORE THAN ONE AND A HALF PERCENT (1.5%) AND THE RUNNING SLOPE (PARALLEL TO THE DIRECTION OF TRAVEL) BETWEEN 0% MIN. AND 4.5% MAX.
- 7. MINIMUM CROSS 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 PRIOR TO CONTINUING WORK.
- 8. 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. ALL UTILITY GRATES WITH IN PLAYING FIELDS OR INDICATED TO BE "BURIED" SHALL BE 4" BELOW FINISH GRADE AND COVERED WITH FINISH MATERIAL INDICATED ON PLANS.
- 9. 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 AS NEEDED AND AT THE END OF THE PROJECT.
- 10. 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.
- 11. WHERE NEW EARTHWORK MEETS EXISTING EARTHWORK, CONTRACTOR SHALL BLEND NEW EARTHWORK SMOOTHLY INTO EXISTING, PROVIDING VERTICAL CURVES OR ROUNDS AT ALL TOP AND BOTTOM OF SLOPES.
- 12. WHERE A SPECIFIC LIMIT OF WORK LINE IS NOT OBVIOUS OR IMPLIED, BLEND GRADES TO EXISTING CONDITIONS WITHIN 5 FEET OF PROPOSED CONTOURS.
- 13. RESTORE ALL DISTURBED AREAS AND LIMITS OF ALL REMOVALS TO LOAM AND SEED (L&S) UNLESS OTHERWISE NOTED.
- 14. SEE EARTHWORK SECTION OF SPECIFICATIONS FOR SPECIFIC EXCAVATION AND FILLING PROCEDURES.



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Table with 3 columns: No., Date, Description. Revisions section.

Table with 3 columns: No., Date, Description. COA section.

COA:
Seal:
MASSACHUSETTS
Seal of the State of Massachusetts

Issued For:
CONSTRUCTION DOCUMENTS

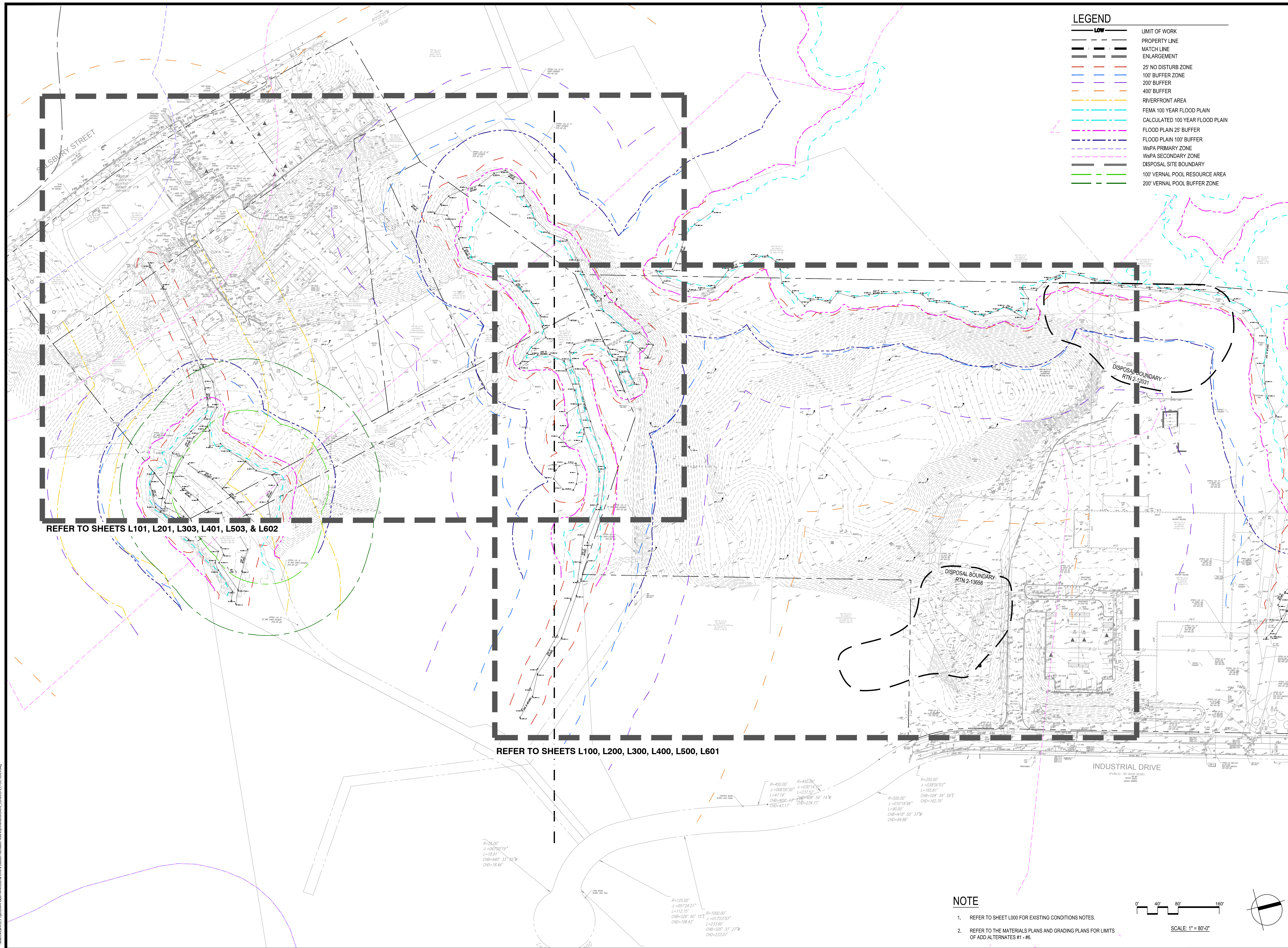
Scale:

Date: 02/14/2024
Drawn By: AG, KH
Reviewed By: JM
Approved By: BK

W&S Project No.: ENG22 - 0852
W&S File No.:

Drawing Title:
GENERAL NOTES

Sheet Number:
L000



LEGEND

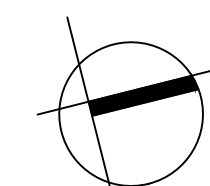
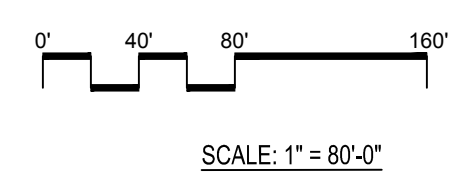
	LIMIT OF WORK
	PROPERTY LINE
	MATCH LINE
	ENLARGEMENT
	25' NO DISTURB ZONE
	100' BUFFER ZONE
	200' BUFFER
	400' BUFFER
	RIVERFRONT AREA
	FEMA 100 YEAR FLOOD PLAIN
	CALCULATED 100 YEAR FLOOD PLAIN
	FLOOD PLAIN 25' BUFFER
	FLOOD PLAIN 100' BUFFER
	W&S PA PRIMARY ZONE
	W&S PA SECONDARY ZONE
	DISPOSAL SITE BOUNDARY
	100' VERNAL POOL RESOURCE AREA
	200' VERNAL POOL BUFFER ZONE

REFER TO SHEETS L101, L201, L303, L401, L503, & L602

REFER TO SHEETS L100, L200, L300, L400, L500, L601

NOTE

- REFER TO SHEET L000 FOR EXISTING CONDITIONS NOTES.
- REFER TO THE MATERIALS PLANS AND GRADING PLANS FOR LIMITS OF ADD ALTERNATES #1 - #6.



Project:
**INDUSTRIAL DRIVE ATHLETIC
 FIELDS & DAWSON RECREATION
 IMPROVEMENTS**

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 Reviewed By: JM
 Approved By: BK
 W&S Project No.: ENG22 - 0852
 W&S File No.:

Drawing Title:
**OVERALL
 EXISTING
 CONDITIONS
 PLAN**

Sheet Number:
L001

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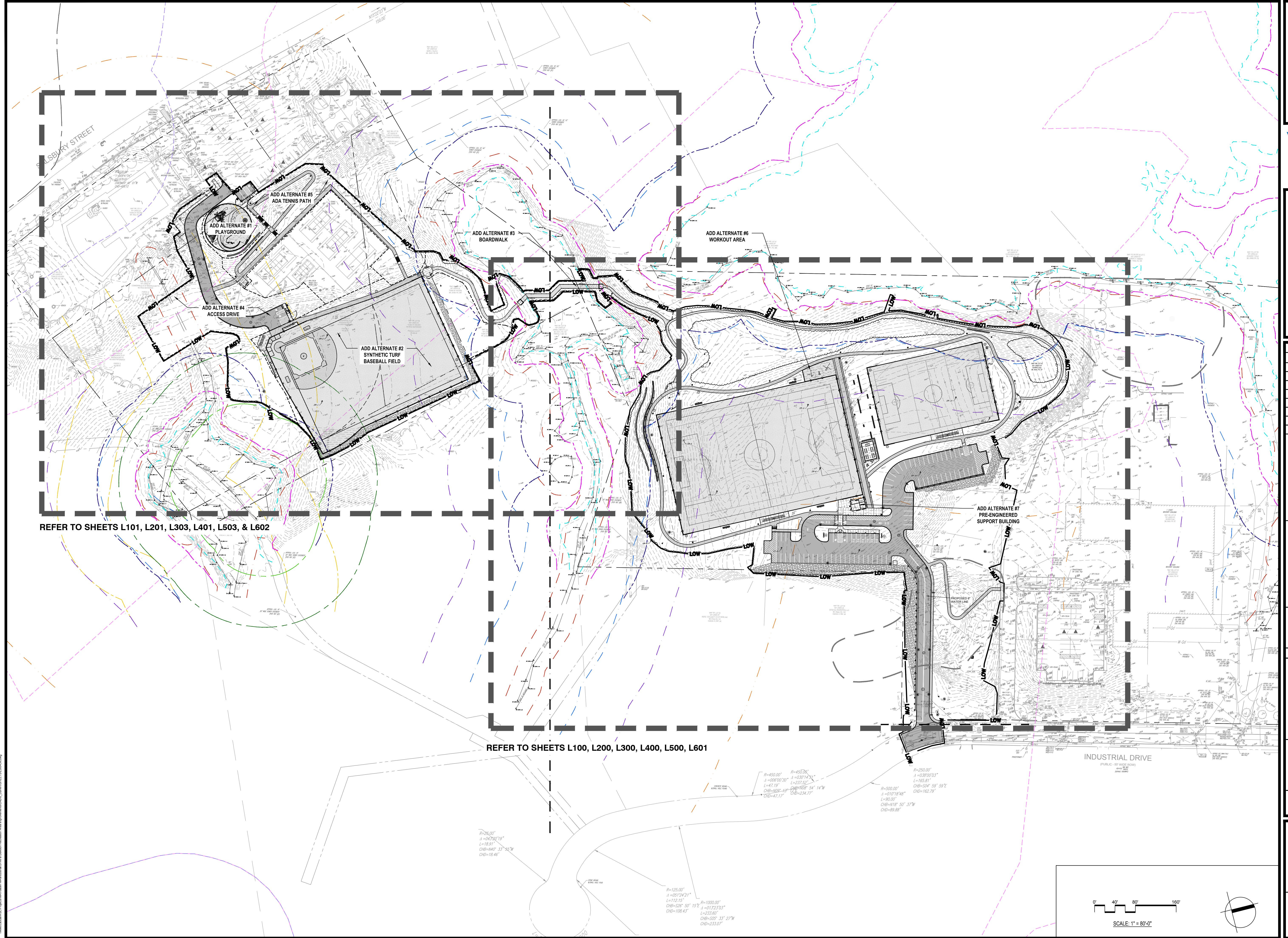
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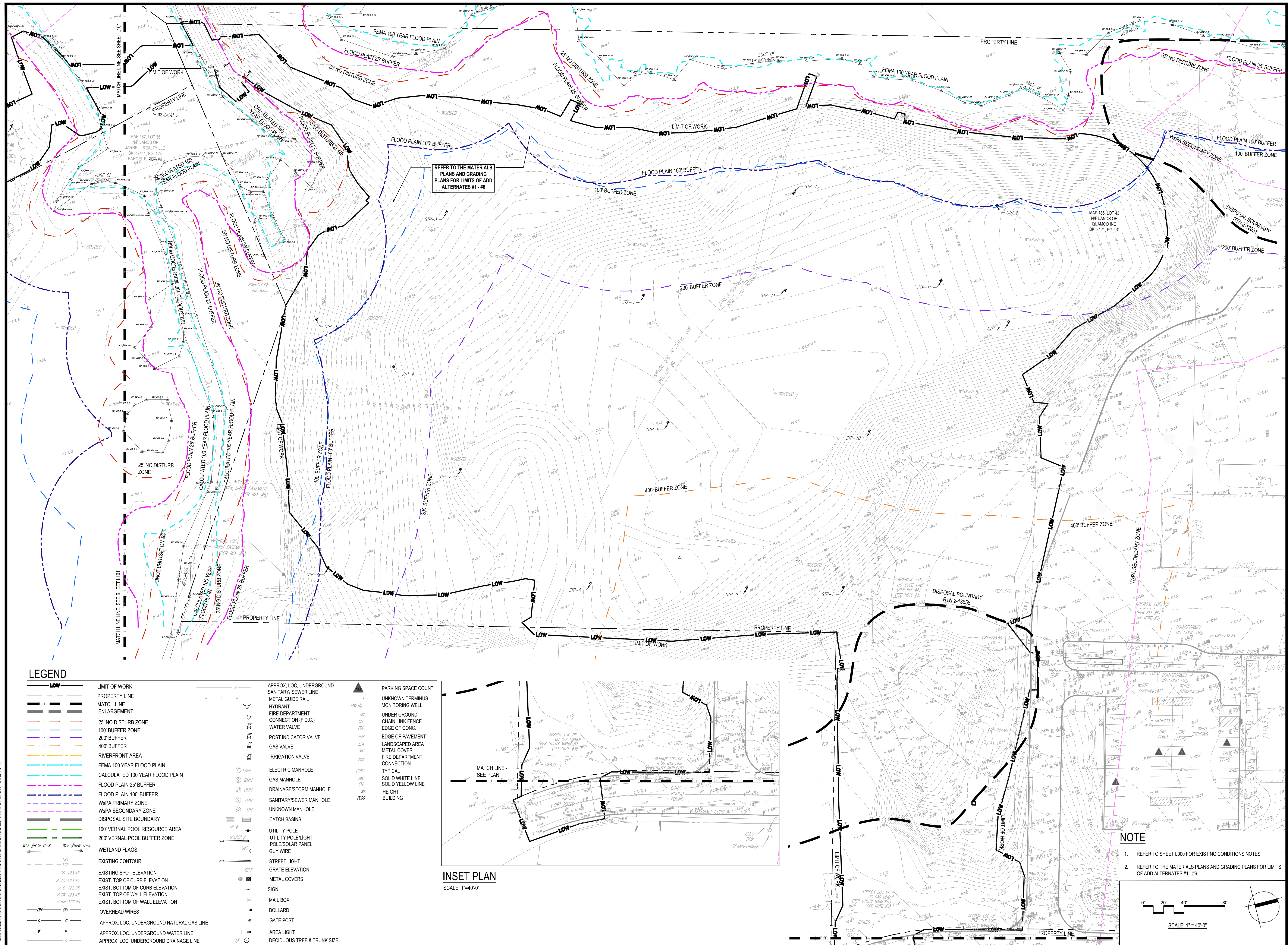
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Drawing Title:
**OVERALL
 SITE PLAN**

Sheet Number:
L002



W&S Project No.: ENG22 - 0852; W&S File No.: L002; Project Name: Industrial Drive Athletic Fields & Dawson Recreation Improvements; Drawing Title: Overall Site Plan; Date: 02/14/2024




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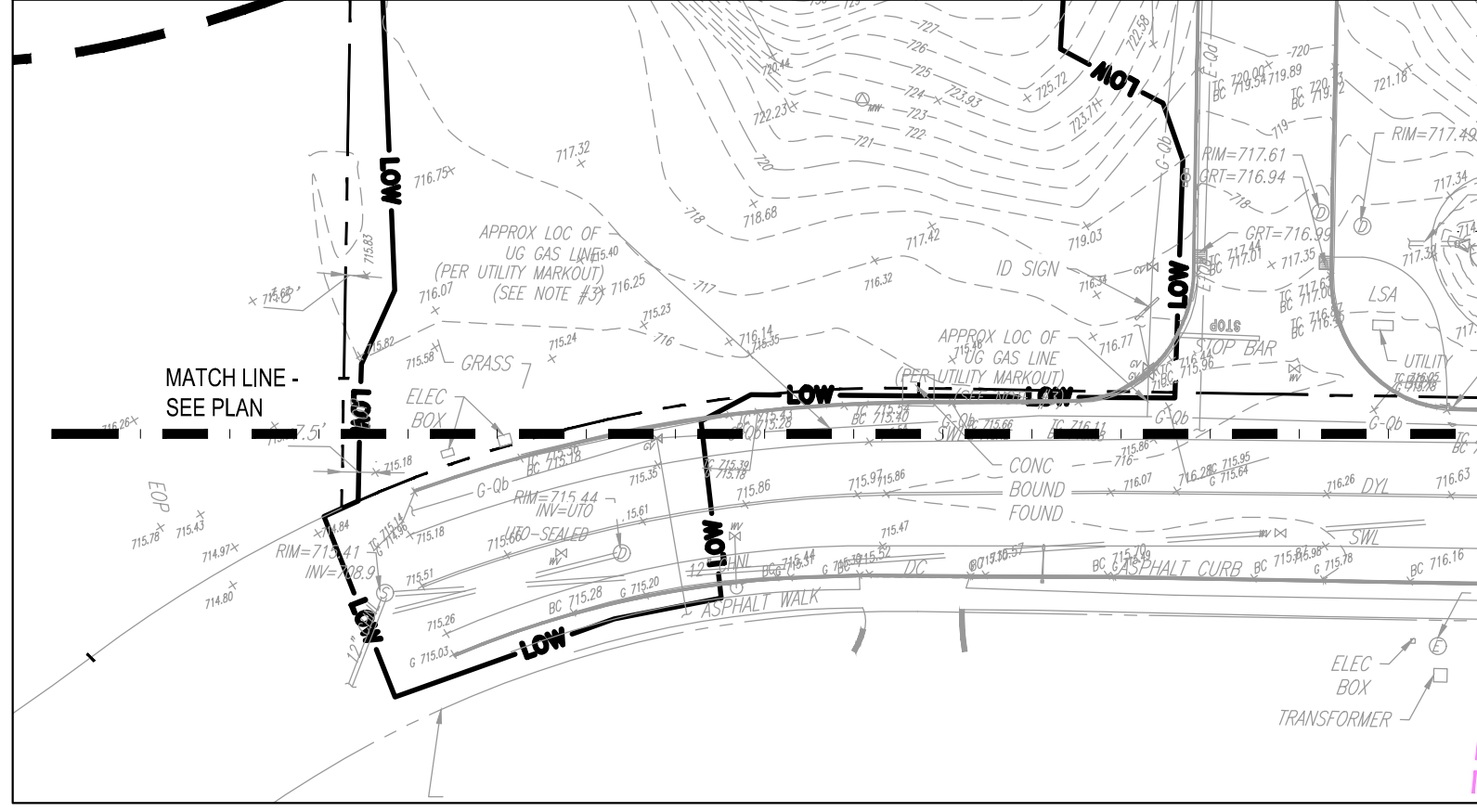
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 Reviewed By: JM
 Approved By: BK
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Drawing Title:
**EXISTING
 CONDITIONS
 PLAN -
 INDUSTRIAL
 DRIVE
 L100**

Sheet Number:

LEGEND

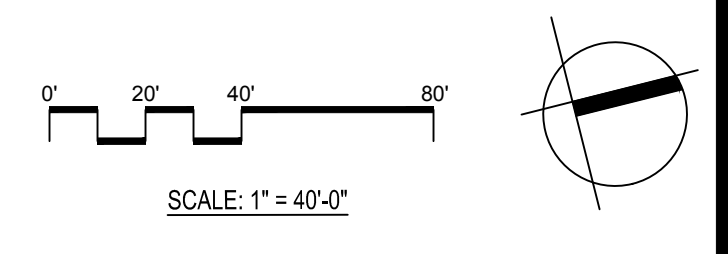
- | | | |
|---|--|--|
| <ul style="list-style-type: none"> LOW --- LIMIT OF WORK --- PROPERTY LINE --- MATCH LINE --- ENLARGEMENT --- 25' NO DISTURB ZONE --- 100' BUFFER ZONE --- 200' BUFFER ZONE --- 400' BUFFER --- RIVERFRONT AREA --- FEMA 100 YEAR FLOOD PLAIN --- CALCULATED 100 YEAR FLOOD PLAIN --- FLOOD PLAIN 25' BUFFER --- FLOOD PLAIN 100' BUFFER --- W&PA PRIMARY ZONE --- W&PA SECONDARY ZONE --- DISPOSAL SITE BOUNDARY --- 100' VERNAL POOL RESOURCE AREA --- 200' VERNAL POOL BUFFER ZONE --- WETLAND FLAGS --- EXISTING CONTOUR --- EXISTING SPOT ELEVATION --- EXIST. TOP OF CURB ELEVATION --- EXIST. BOTTOM OF CURB ELEVATION --- EXIST. TOP OF WALL ELEVATION --- EXIST. BOTTOM OF WALL ELEVATION --- OVERHEAD WIRES --- APPROX. LOC. UNDERGROUND NATURAL GAS LINE --- APPROX. LOC. UNDERGROUND WATER LINE --- APPROX. LOC. UNDERGROUND DRAINAGE LINE | <ul style="list-style-type: none"> --- APPROX. LOC. UNDERGROUND SANITARY/SEWER LINE --- METAL GUIDE RAIL --- HYDRANT --- FIRE DEPARTMENT CONNECTION (F.D.C.) --- WATER VALVE --- POST INDICATOR VALVE --- GAS VALVE --- IRRIGATION VALVE --- ELECTRIC MANHOLE --- GAS MANHOLE --- DRAINAGE/STORM MANHOLE --- SANITARY/SEWER MANHOLE --- UNKNOWN MANHOLE --- CATCH BASINS --- UTILITY POLE --- UTILITY POLE/LIGHT --- POLE/SOLAR PANEL --- GUY WIRE --- STREET LIGHT --- GRATE ELEVATION --- METAL COVERS --- SIGN --- MAIL BOX --- BOLLARD --- GATE POST --- AREA LIGHT --- DECIDUOUS TREE & TRUNK SIZE | <ul style="list-style-type: none"> ▲ PARKING SPACE COUNT ○ UNKNOWN TERMINUS ○ MONITORING WELL ○ UNDER GROUND CHAIN LINK FENCE ○ EDGE OF CONC. ○ EDGE OF PAVEMENT ○ LANDSCAPED AREA ○ METAL COVER ○ FIRE DEPARTMENT CONNECTION ○ TYPICAL ○ SOLID WHITE LINE ○ SOLID YELLOW LINE ○ HEIGHT ○ BUILDING |
|---|--|--|



INSET PLAN
 SCALE: 1"=40'-0"

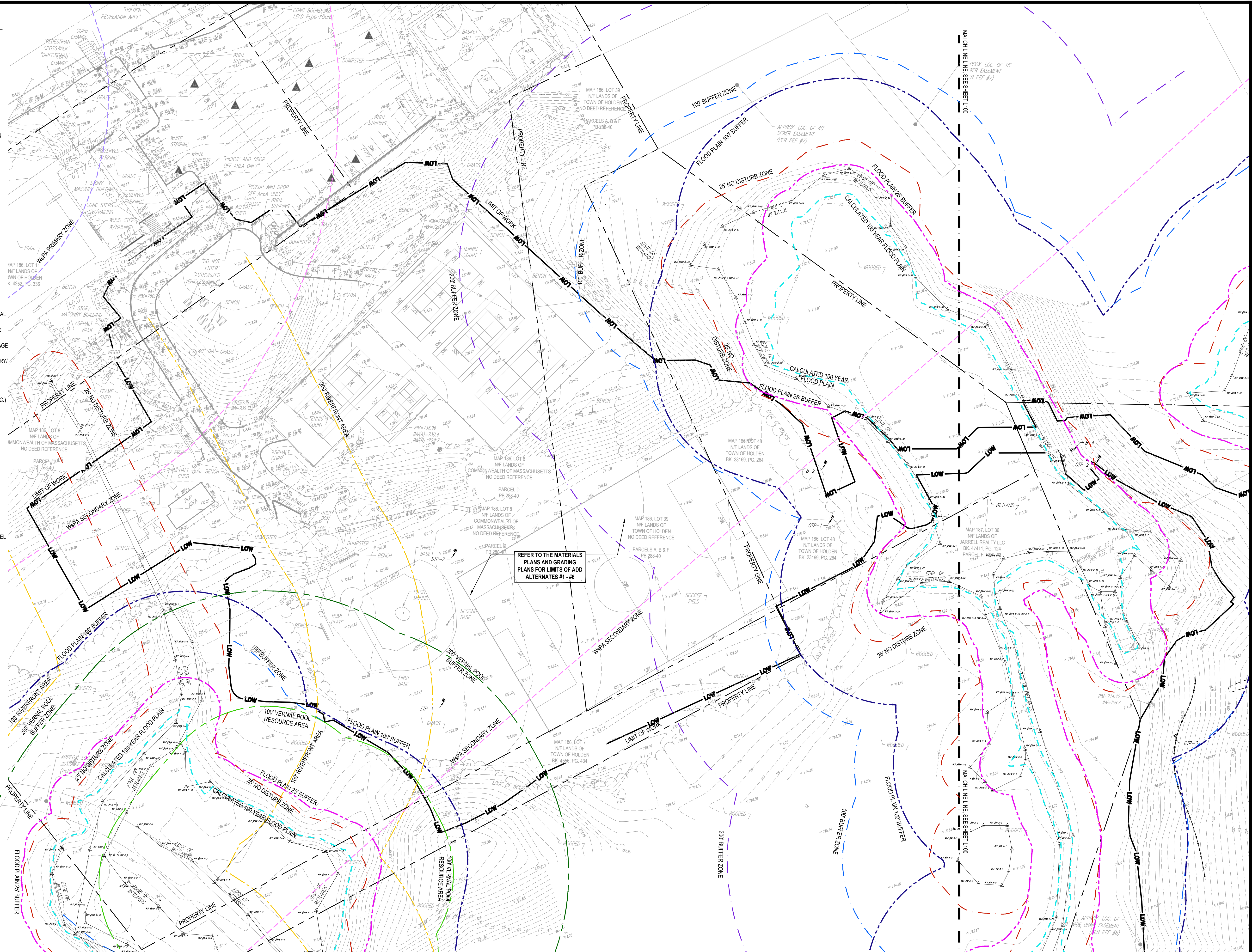
NOTE

- REFER TO SHEET L000 FOR EXISTING CONDITIONS NOTES.
- REFER TO THE MATERIALS PLANS AND GRADING PLANS FOR LIMITS OF ADD ALTERNATES #1 - #6.



LEGEND

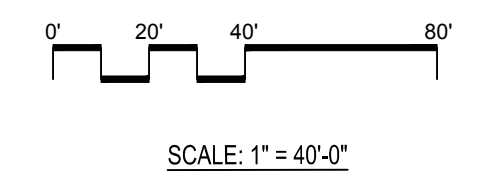
- LOW** LIMIT OF WORK
- PROPERTY LINE
- MATCH LINE ENLARGEMENT
- 25' NO DISTURB ZONE
- 100' BUFFER ZONE
- 200' BUFFER
- 400' BUFFER
- RIVERFRONT AREA
- FEMA 100 YEAR FLOOD PLAN
- CALCULATED 100 YEAR FLOOD PLAN
- FLOOD PLAIN 25' BUFFER
- FLOOD PLAIN 100' BUFFER
- WSPA PRIMARY ZONE
- WSPA SECONDARY ZONE
- DISPOSAL SITE BOUNDARY
- 100' VERNAL POOL RESOURCE AREA
- 200' VERNAL POOL BUFFER ZONE
- WETLAND FLAGS
- EXISTING CONTOUR
- EXISTING SPOT ELEVATION
- EXIST. TOP OF CURB ELEVATION
- EXIST. BOTTOM OF CURB ELEVATION
- EXIST. TOP OF WALL ELEVATION
- EXIST. BOTTOM OF WALL ELEVATION
- OVERHEAD WIRES
- APPROX. LOC. UNDERGROUND NATURAL GAS LINE
- APPROX. LOC. UNDERGROUND WATER LINE
- APPROX. LOC. UNDERGROUND DRAINAGE LINE
- APPROX. LOC. UNDERGROUND SANITARY/SEWER LINE
- METAL GUIDE RAIL
- HYDRANT
- FIRE DEPARTMENT CONNECTION (F.D.C.)
- WATER VALVE
- POST INDICATOR VALVE
- GAS VALVE
- IRRIGATION VALVE
- ELECTRIC MANHOLE
- GAS MANHOLE
- DRAINAGE/STORM MANHOLE
- SANITARY/SEWER MANHOLE
- UNKNOWN MANHOLE
- CATCH BASINS
- UTILITY POLE
- UTILITY POLE/EIGHT POLE/SOLAR PANEL
- GUY WIRE
- STREET LIGHT
- GRATE ELEVATION
- METAL COVERS
- SIGN
- MAIL BOX
- BOLLARD
- GATE POST
- AREA LIGHT
- DECIDUOUS TREE & TRUNK SIZE
- PARKING SPACE COUNT
- UNKNOWN TERMINUS
- MONITORING WELL
- UNDER GROUND
- CHAIN LINK FENCE
- EDGE OF CONC.
- EDGE OF PAVEMENT
- LANDSCAPED AREA
- METAL COVER
- FIRE DEPARTMENT CONNECTION
- TYPICAL
- SOLID WHITE LINE
- SOLID YELLOW LINE
- HEIGHT
- BUILDING



REFER TO THE MATERIALS PLANS AND GRADING PLANS FOR LIMITS OF ADD ALTERNATES #1 - #6

NOTE

- REFER TO SHEET L000 FOR EXISTING CONDITIONS NOTES.
- REFER TO THE MATERIALS PLANS AND GRADING PLANS FOR LIMITS OF ADD ALTERNATES #1 - #6.



Project:
**INDUSTRIAL DRIVE ATHLETIC
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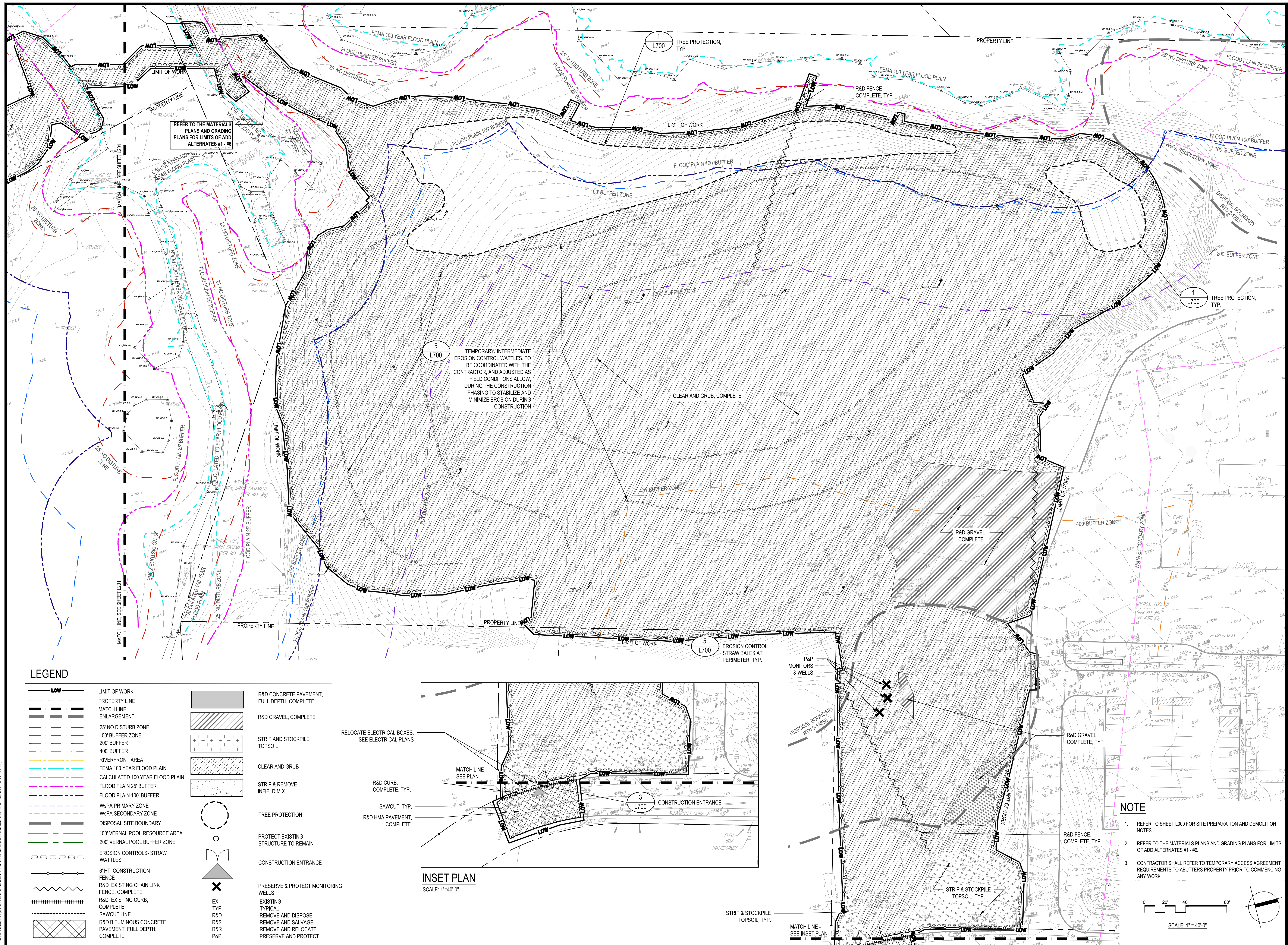
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DOCUMENTS**

Scale:

Date: 02/14/2024
Drawn By: AG, KH
Reviewed By: JM
Approved By: BK
W&S Project No.: ENG22 - 0852
W&S File No.:

Drawing Title:
**EXISTING
CONDITIONS
PLAN - DAWSON
RECREATION**

Sheet Number:
L101



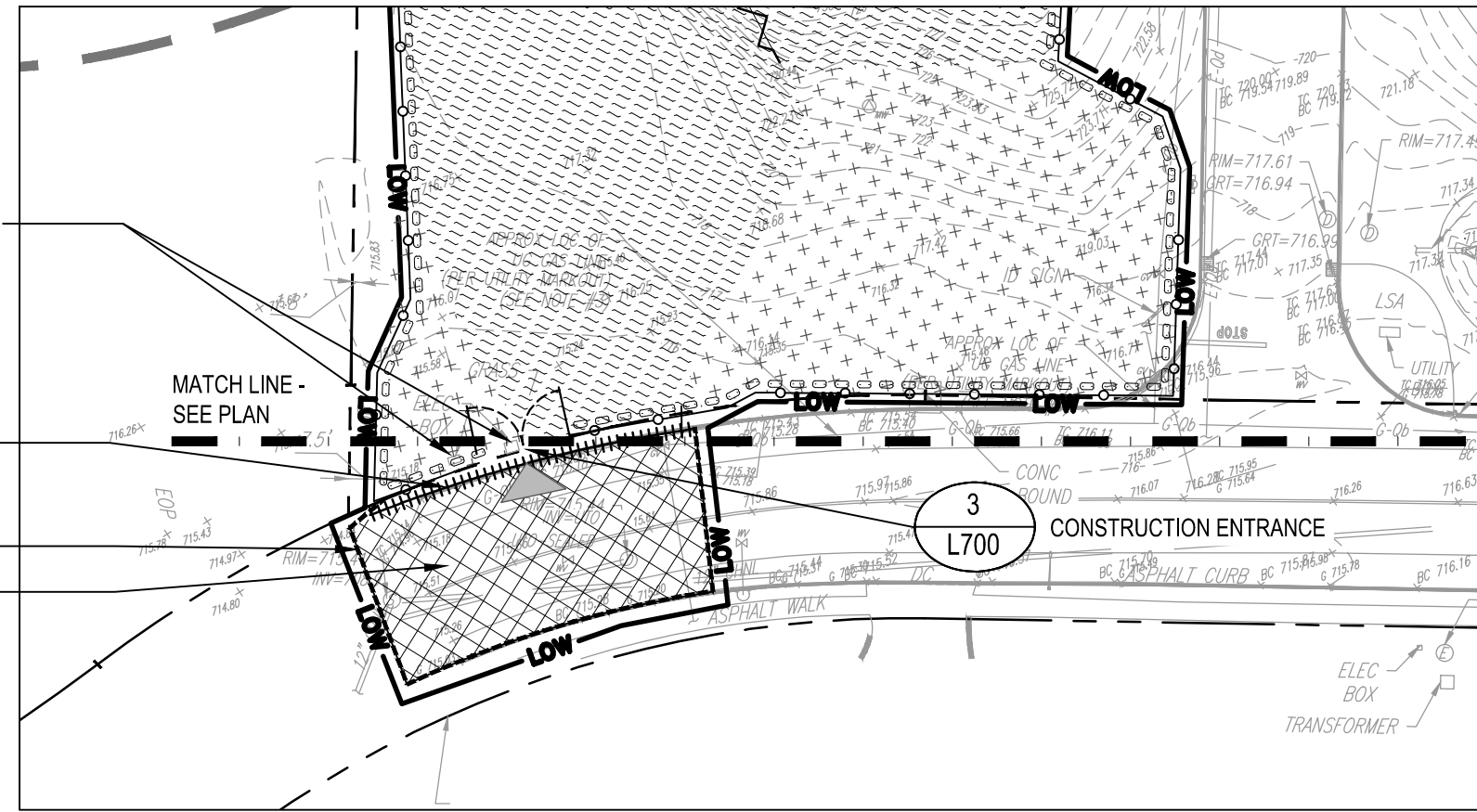
REFER TO THE MATERIALS PLANS AND GRADING PLANS FOR LIMITS OF ADD ALTERNATES #1 - #6

TEMPORARY/INTERMEDIATE EROSION CONTROL WATTLES, TO BE COORDINATED WITH THE CONTRACTOR, AND ADJUSTED AS FIELD CONDITIONS ALLOW, DURING THE CONSTRUCTION PHASING TO STABILIZE AND MINIMIZE EROSION DURING CONSTRUCTION

CLEAR AND GRUB, COMPLETE

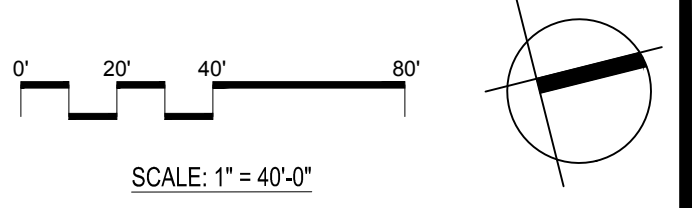
EROSION CONTROL: STRAW BALES AT PERIMETER, TYP.

LEGEND	
	LIMIT OF WORK
	PROPERTY LINE
	MATCH LINE ENLARGEMENT
	25' NO DISTURB ZONE
	100' BUFFER ZONE
	200' BUFFER
	400' BUFFER
	RIVERFRONT AREA
	FEMA 100 YEAR FLOOD PLAIN
	CALCULATED 100 YEAR FLOOD PLAIN
	FLOOD PLAIN 25' BUFFER
	FLOOD PLAIN 100' BUFFER
	WsPA PRIMARY ZONE
	WsPA SECONDARY ZONE
	DISPOSAL SITE BOUNDARY
	100' VERNAL POOL RESOURCE AREA
	200' VERNAL POOL BUFFER ZONE
	EROSION CONTROLS - STRAW WATTLES
	6' HT. CONSTRUCTION FENCE
	R&D EXISTING CHAIN LINK FENCE, COMPLETE
	R&D EXISTING CURB, COMPLETE
	SAWCUT LINE
	R&D BITUMINOUS CONCRETE PAVEMENT, FULL DEPTH, COMPLETE
	R&D CONCRETE PAVEMENT, FULL DEPTH, COMPLETE
	R&D GRAVEL, COMPLETE
	STRIP AND STOCKPILE TOPSOIL
	CLEAR AND GRUB
	STRIP & REMOVE INFIELD MIX
	TREE PROTECTION
	PROTECT EXISTING STRUCTURE TO REMAIN
	CONSTRUCTION ENTRANCE
	PRESERVE & PROTECT MONITORING WELLS
	EXISTING TYPICAL
	REMOVE AND DISPOSE
	REMOVE AND SALVAGE
	REMOVE AND RELOCATE
	PRESERVE AND PROTECT



INSET PLAN
SCALE: 1"=40'-0"

- NOTE**
- REFER TO SHEET L000 FOR SITE PREPARATION AND DEMOLITION NOTES.
 - REFER TO THE MATERIALS PLANS AND GRADING PLANS FOR LIMITS OF ADD ALTERNATES #1 - #6.
 - CONTRACTOR SHALL REFER TO TEMPORARY ACCESS AGREEMENT REQUIREMENTS TO ABUTTERS PROPERTY PRIOR TO COMMENCING ANY WORK.



Project:
INDUSTRIAL DRIVE ATHLETIC FIELDS & DAWSON RECREATION IMPROVEMENTS

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Reviewed By: JM
Approved By: BK

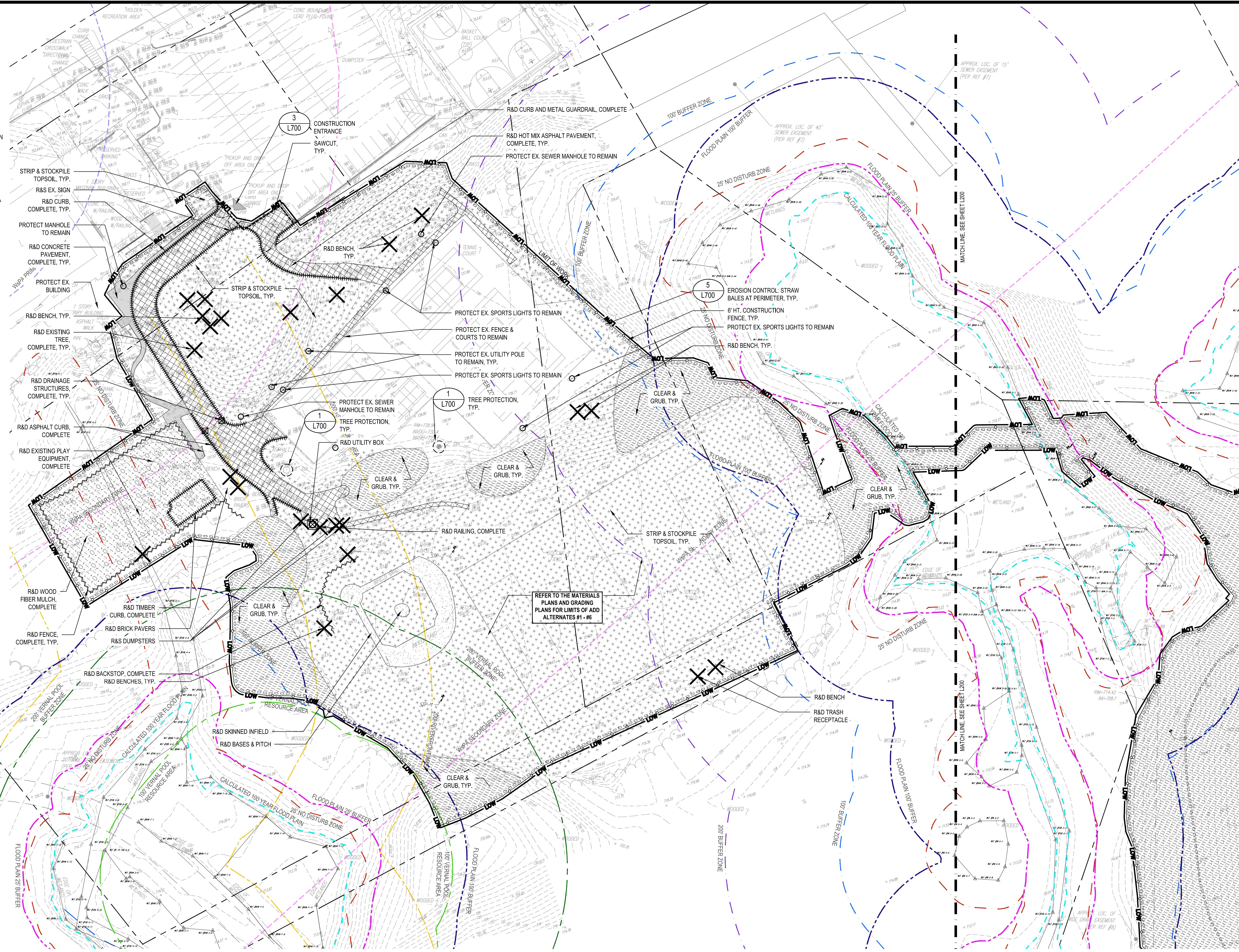
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Drawing Title:
SITE PREPARATION & DEMOLITION PLAN - INDUSTRIAL DRIVE

Sheet Number:
L200

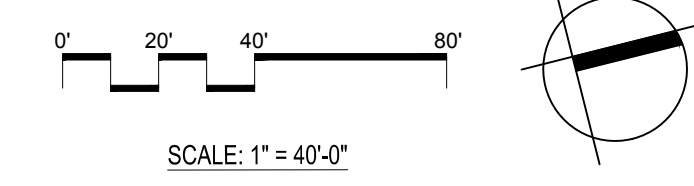
LEGEND

- LIMIT OF WORK
- PROPERTY LINE
- MATCH LINE
- ENLARGEMENT
- 25' NO DISTURB ZONE
- 100' BUFFER ZONE
- 200' BUFFER
- 400' BUFFER
- RIVERFRONT AREA
- FEMA 100 YEAR FLOOD PLAIN
- CALCULATED 100 YEAR FLOOD PLAIN
- FLOOD PLAIN 25' BUFFER
- FLOOD PLAIN 100' BUFFER
- W&PA PRIMARY ZONE
- W&PA SECONDARY ZONE
- DISPOSAL SITE BOUNDARY
- 100' VERNAL POOL RESOURCE AREA
- 200' VERNAL POOL BUFFER ZONE
- EROSION CONTROLS- STRAW WATTLES
- 6' HT. CONSTRUCTION FENCE
- R&D EXISTING CHAIN LINK FENCE, COMPLETE
- R&D EXISTING CURB, COMPLETE
- SAWCUT LINE
- R&D BITUMINOUS CONCRETE PAVEMENT, FULL DEPTH, COMPLETE
- R&D CONCRETE PAVEMENT, FULL DEPTH, COMPLETE
- R&D GRAVEL, COMPLETE
- STRIP AND STOCKPILE TOPSOIL
- CLEAR AND GRUB
- STRIP & REMOVE INFIELD MIX
- TREE PROTECTION
- PROTECT EXISTING STRUCTURE TO REMAIN
- CONSTRUCTION ENTRANCE
- R&D SITE ELEMENT
- EX TYP
- R&D TYP
- R&S TYP
- R&R TYP
- P&P TYP
- EXISTING TYPICAL REMOVE AND DISPOSE
- REMOVE AND SALVAGE
- REMOVE AND RELOCATE
- PRESERVE AND PROTECT



NOTE

1. REFER TO SHEET L000 FOR SITE PREPARATION AND DEMOLITION NOTES.
2. REFER TO THE MATERIALS PLANS AND GRADING PLANS FOR LIMITS OF ADD ALTERNATES #1 - #6.



Project:
**INDUSTRIAL DRIVE ATHLETIC
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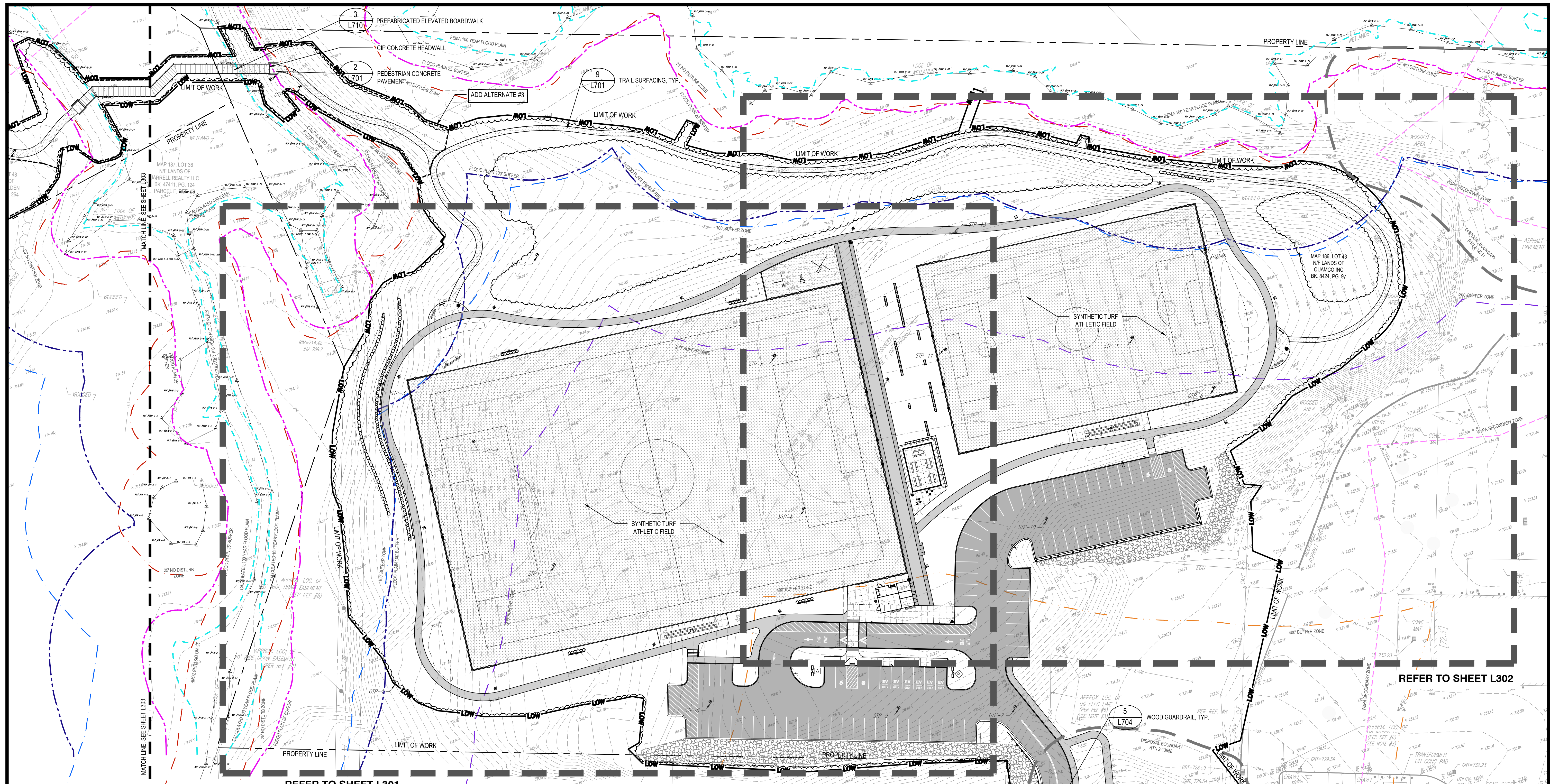
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Date: 02/14/2024
 Drawn By: AG, KH
 Reviewed By: JM
 Approved By: BK
 W&S Project No.: ENG22 - 0852
 W&S File No.:

Drawing Title:
**SITE
 PREPARATION &
 DEMOLITION PLAN
 - DAWSON
 RECREATION**

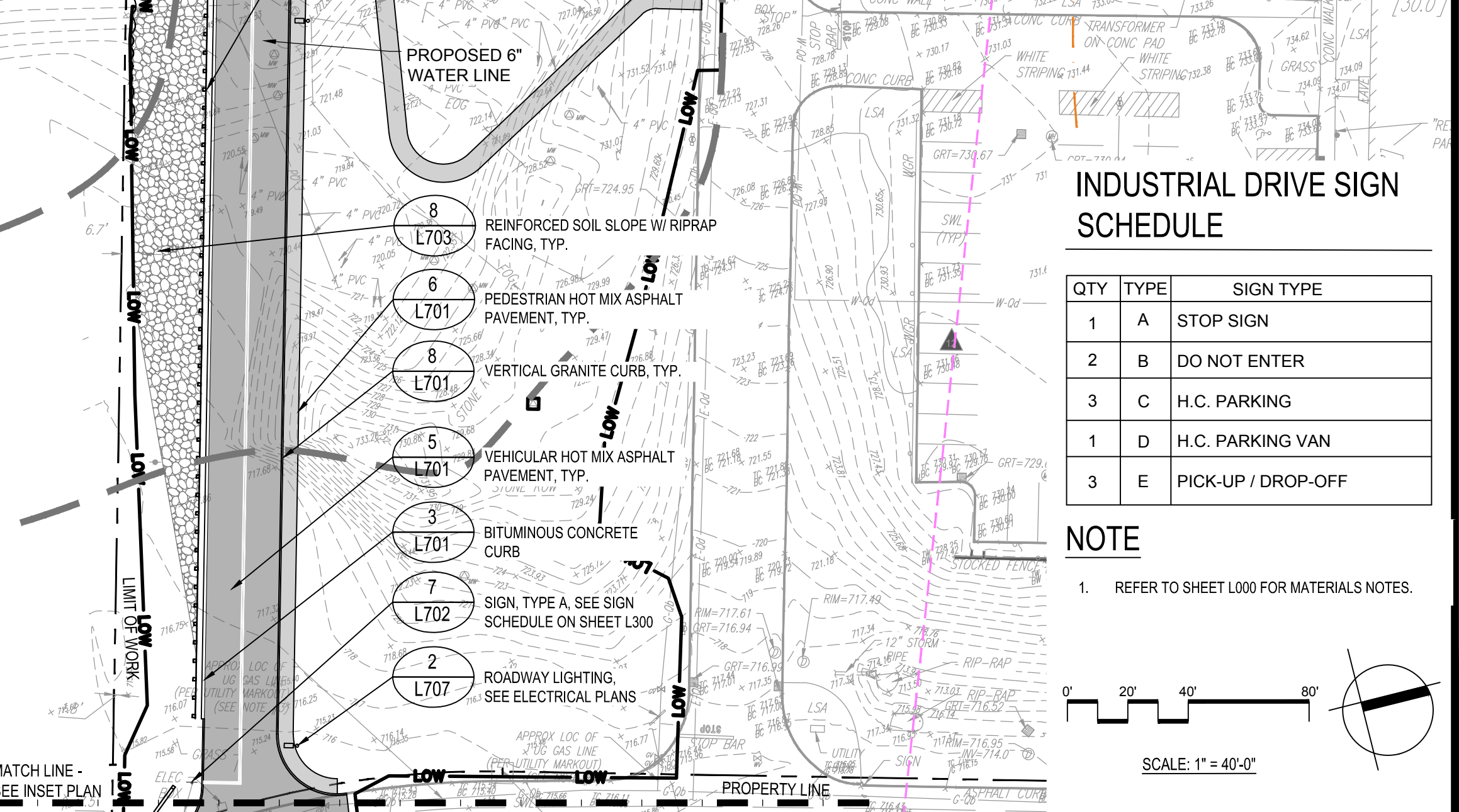
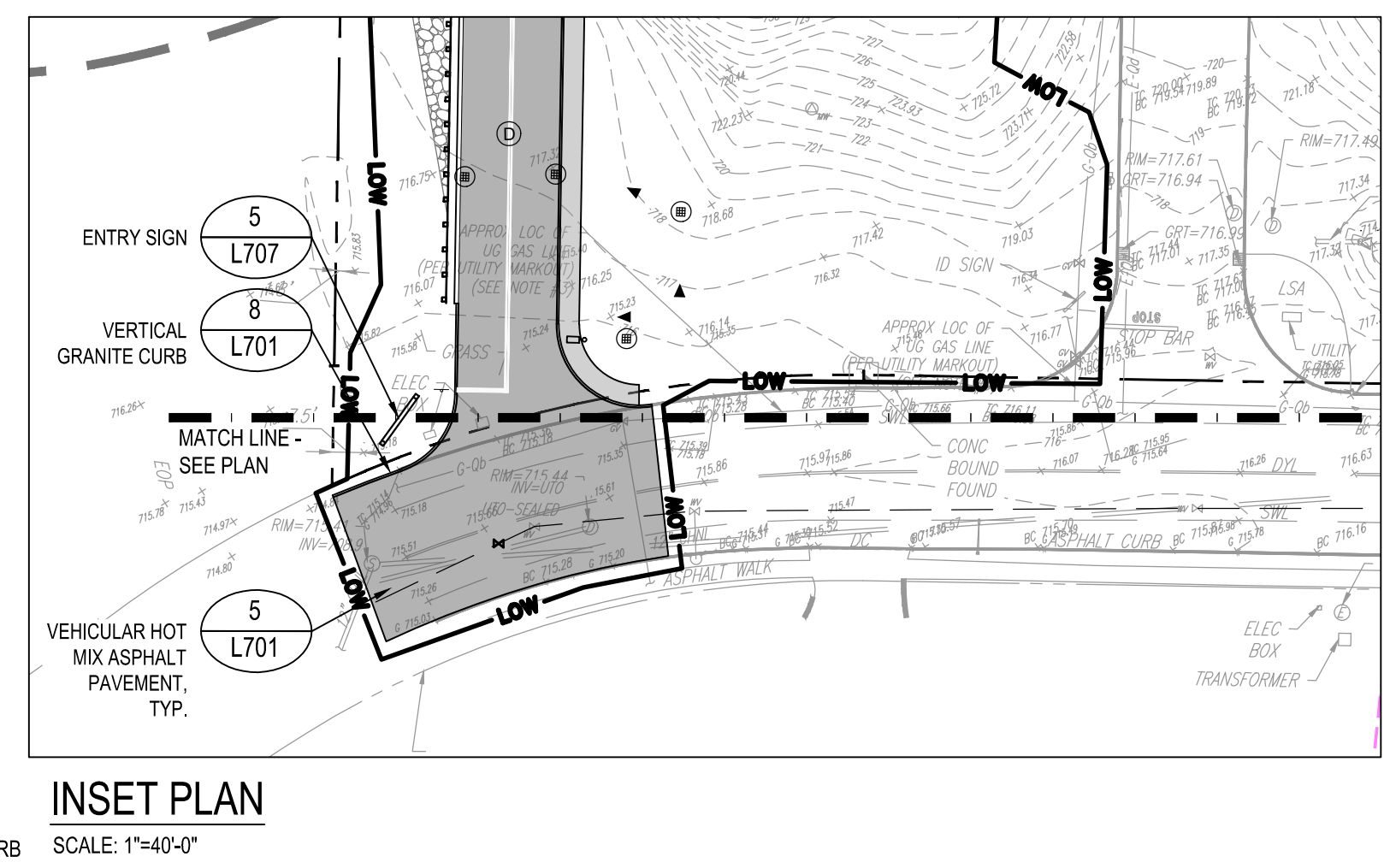
Sheet Number:
L201

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LEGEND

	LIMIT OF WORK		CAST-IN-PLACE CONCRETE PAVEMENT, COLOR 2		PEDESTRIAN LIGHT SECURITY CAMERA
	PROPERTY LINE		POURED-IN-PLACE RUBBER SAFETY SURFACING		BLEACHER SEATING
	MATCH LINE		TRAIL SURFACING		PICNIC TABLE
	25' NO DISTURB ZONE		REINFORCED SOIL SLOPE W/ RIPRAP FACING		CAFE TABLES
	100' BUFFER ZONE		TREELINE		BENCH
	200' BUFFER		GRANITE BLOCK SEAT WALL		SCOREBOARD
	400' BUFFER		REINFORCED SOIL SLOPE W/ BOULDER FACING		HYDRANT
	RIVERFRONT AREA		RETAINING WALL		TRASH RECEPTACLE
	FEMA 100 YEAR FLOOD PLAIN		CAST-IN-PLACE CONCRETE RETAINING WALL		BLUE SAFETY LIGHT
	CALCULATED 100 YEAR FLOOD PLAIN		EXPANSION JOINT		ELECTRIC VEHICLE CHARGING STATION
	FLOOD PLAIN 25' BUFFER		SCORE JOINT		BIKE RACK
	FLOOD PLAIN 100' BUFFER		SPLIT RAIL FENCE		DOUBLE POST
	WSPA PRIMARY ZONE		BLACK VINYL CHAIN LINK FENCE		PEDESTAL SIGN
	WSPA SECONDARY ZONE		WOOD GUARDRAIL		REGULATORY SIGN
	DISPOSAL SITE BOUNDARY		ORNAMENTAL METAL PICKET FENCE		SEE SCHEDULE
	100' VERNAL POOL RESOURCE AREA		20' HT. BALL NETTING		PREFABRICATED ELEVATED BOARDWALK
	200' VERNAL POOL BUFFER ZONE		SPORTS LIGHT		VERTICAL GRANITE CURB
	SYNTHETIC TURF, COLORS 1 & 2		ROADWAY LIGHT		BITUMINOUS CONCRETE CURB
	VEHICULAR HOT MIX ASPHALT PAVEMENT				TRANSITION CURB
	PEDESTRIAN HOT MIX ASPHALT PAVEMENT				FLUSH GRANITE CURB
	CAST-IN-PLACE CONCRETE PAVEMENT, COLOR 1				BLACK VINYL CHAIN LINK CONCRETE
					TYPICAL
					PROPOSED
					SCORE JOINT
					EXPANSION JOINT
					POURED-IN-PLACE



Consultants:

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No.	Date	Description

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 Drawn By: AG, KH
 Reviewed By: JM
 Approved By: BK
 W&S Project No.: ENG22-0852
 W&S File No.:

Drawing Title:
MATERIALS PLAN - INDUSTRIAL DRIVE
 Sheet Number:
L300

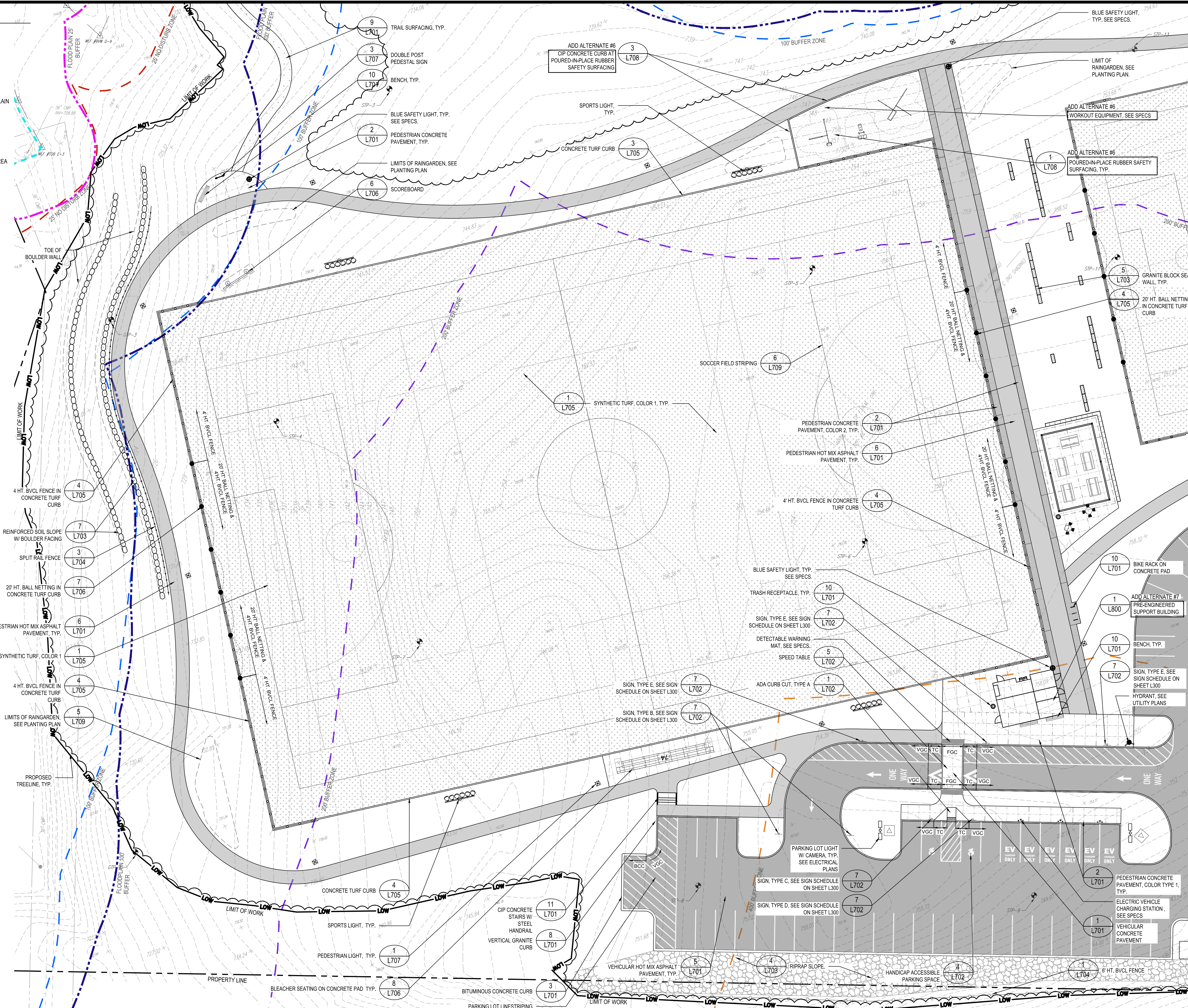
LEGEND

- LIMIT OF WORK
- PROPERTY LINE
- 25' NO DISTURB ZONE
- 100' BUFFER ZONE
- 200' BUFFER
- 400' BUFFER
- RIVERFRONT AREA
- FEMA 100 YEAR FLOOD PLAIN
- CALCULATED 100 YEAR FLOOD PLAIN
- FLOOD PLAIN 25' BUFFER
- FLOOD PLAIN 100' BUFFER
- WSPA PRIMARY ZONE
- WSPA SECONDARY ZONE
- DISPOSAL SITE BOUNDARY
- 100' VERNAL POOL RESOURCE AREA
- 200' VERNAL POOL BUFFER ZONE
- SYNTHETIC TURF, COLORS 1 & 2
- CAST-IN-PLACE CONCRETE PAVEMENT, COLOR 1
- CAST-IN-PLACE CONCRETE PAVEMENT, COLOR 2
- VEHICULAR HOT MIX ASPHALT PAVEMENT
- PEDESTRIAN HOT MIX ASPHALT PAVEMENT
- POURED-IN-PLACE RUBBER SAFETY SURFACING
- TRAIL SURFACING
- REINFORCED SOIL SLOPE W/ RIPRAP FACING
- TREELINE
- GRANITE BLOCK SEAT WALL
- REINFORCED SOIL SLOPE W/ BOULDER FACING
- SEGMENTAL BLOCK RETAINING WALL
- CAST-IN-PLACE CONCRETE RETAINING WALL
- EXPANSION JOINT
- SCORE JOINT
- SPLIT RAIL FENCE
- BLACK VINYL CHAIN LINK FENCE
- WOOD GUARDRAIL
- ORNAMENTAL METAL PICKET FENCE
- 20' HT. BALL NETTING
- SPORTS LIGHT
- ROADWAY LIGHT
- PEDESTRIAN LIGHT
- SECURITY CAMERA
- BLEACHER SEATING
- PICNIC TABLE
- CAFE TABLES
- BENCH
- SCOREBOARD
- HYDRANT
- TRASH RECEPTACLE
- BLUE SAFETY LIGHT
- ELECTRIC VEHICLE CHARGING STATION
- BIKE RACK
- ENTRY SIGN
- DOUBLE POST PEDESTAL SIGN
- PEDESTAL SIGN
- REGULATORY SIGN, SEE SCHEDULE
- VERTICAL GRANITE CURB
- BITUMINOUS CONCRETE CURB
- TRANSITION CURB
- FLUSH GRANITE CURB
- BLACK VINYL CHAIN LINK CONCRETE
- TYPICAL PROPOSED
- PROPOSED SCORE JOINT
- EXPANSION JOINT
- POURED-IN-PLACE
- VGC
- BCC
- TC
- FGC
- BVCL
- CONC.
- TYP.
- PROP.
- SJ
- EJ
- PIP

NOTE

1. REFER TO SHEET L000 FOR MATERIALS NOTES.

SCALE: 1" = 20'-0"



Project:
**INDUSTRIAL DRIVE ATHLETIC
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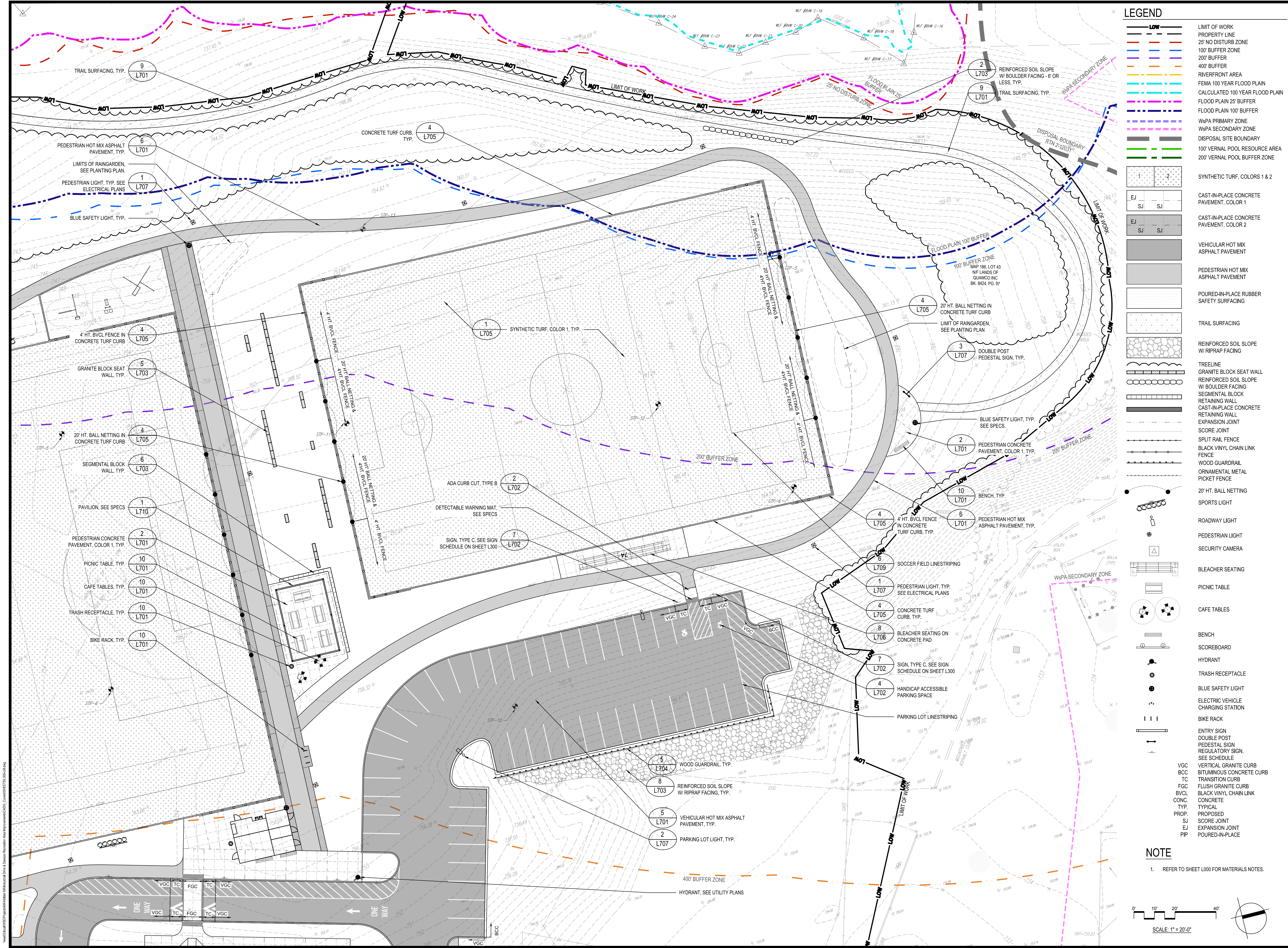
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**MATERIALS
 PLAN -
 INDUSTRIAL
 DRIVE**

Sheet Number:

L301

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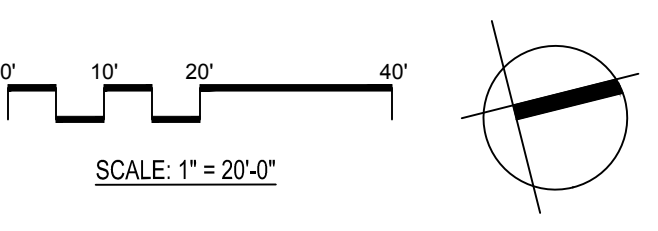


LEGEND

- LIMIT OF WORK
- PROPERTY LINE
- 25' NO DISTURB ZONE
- 100' BUFFER ZONE
- 200' BUFFER
- 400' BUFFER
- RIVERFRONT AREA
- FEMA 100 YEAR FLOOD PLAIN
- CALCULATED 100 YEAR FLOOD PLAN
- FLOOD PLAIN 25' BUFFER
- FLOOD PLAIN 100' BUFFER
- W&S PRIMARY ZONE
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- 100' VERNAL POOL RESOURCE AREA
- 200' VERNAL POOL BUFFER ZONE
- SYNTHETIC TURF, COLORS 1 & 2
- CAST-IN-PLACE CONCRETE PAVEMENT, COLOR 1
- CAST-IN-PLACE CONCRETE PAVEMENT, COLOR 2
- VEHICULAR HOT MIX ASPHALT PAVEMENT
- PEDESTRIAN HOT MIX ASPHALT PAVEMENT
- POURED-IN-PLACE RUBBER SAFETY SURFACING
- TRAIL SURFACING
- REINFORCED SOIL SLOPE W/ RIPRAP FACING
- TREELINE
- GRANITE BLOCK SEAT WALL
- REINFORCED SOIL SLOPE W/ BOULDER FACING
- SEGMENTAL BLOCK RETAINING WALL
- CAST-IN-PLACE CONCRETE RETAINING WALL
- EXPANSION JOINT
- SCORE JOINT
- SPLIT RAIL FENCE
- BLACK VINYL CHAIN LINK FENCE
- WOOD GUARDRAIL
- ORNAMENTAL METAL PICKET FENCE
- 20' HT. BALL NETTING
- SPORTS LIGHT
- ROADWAY LIGHT
- PEDESTRIAN LIGHT
- SECURITY CAMERA
- BLEACHER SEATING
- PICNIC TABLE
- CAFE TABLES
- BENCH
- SCOREBOARD
- HYDRANT
- TRASH RECEPTACLE
- BLUE SAFETY LIGHT
- ELECTRIC VEHICLE CHARGING STATION
- BIKE RACK
- ENTRY SIGN
- DOUBLE POST PEDESTAL SIGN
- REGULATORY SIGN, SEE SCHEDULE
- VGC VERTICAL GRANITE CURB
- BCC BITUMINOUS CONCRETE CURB
- TC TRANSITION CURB
- FGC FLUSH GRANITE CURB
- BVCL BLACK VINYL CHAIN LINK CONCRETE
- CONC. TYPICAL
- PROP. PROPOSED
- SJ SCORE JOINT
- EJ EXPANSION JOINT
- PIP POURED-IN-PLACE

NOTE

1. REFER TO SHEET L000 FOR MATERIALS NOTES.

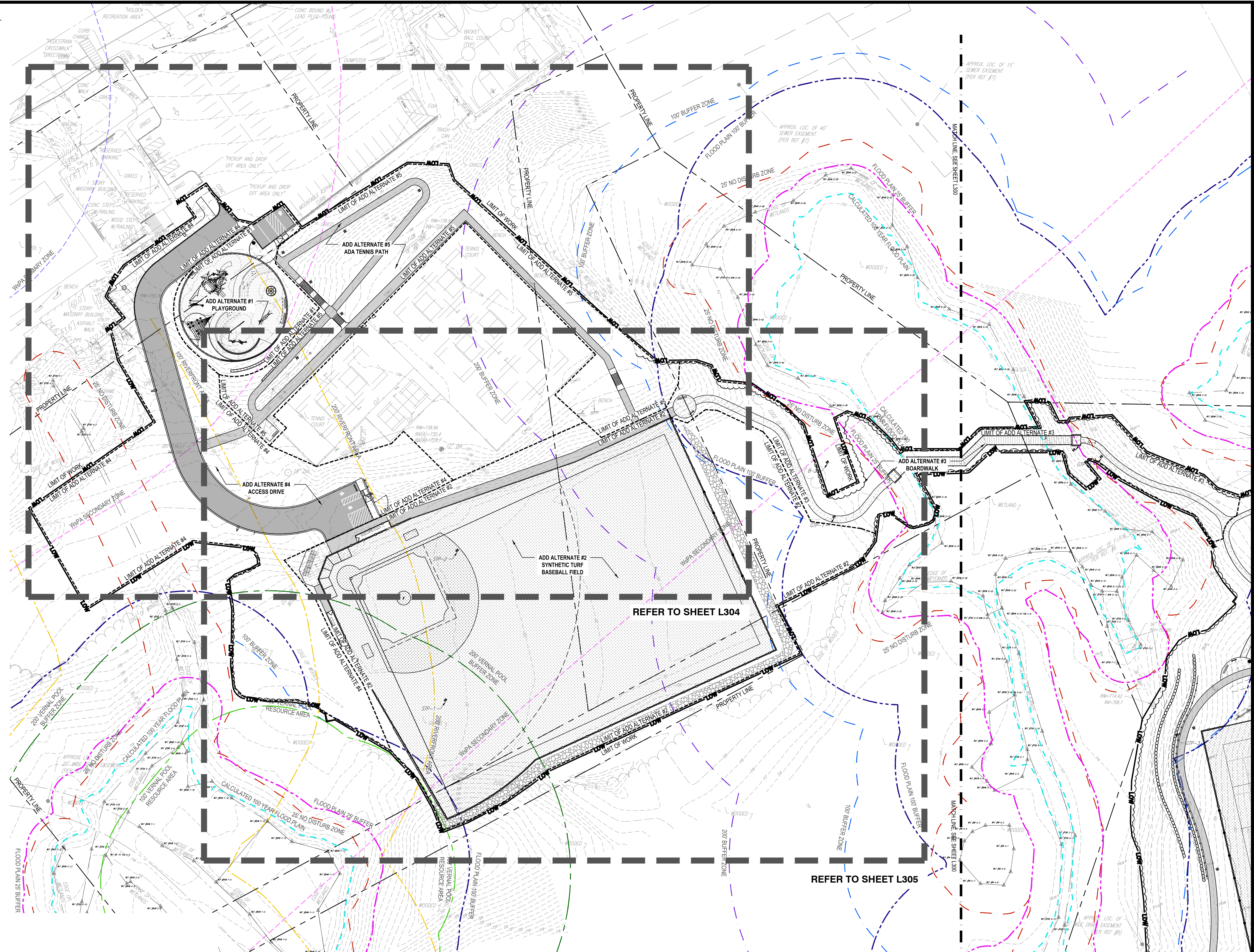


LEGEND

- LIMIT OF WORK
PROPERTY LINE
MATCH LINE
ENLARGEMENT
25' NO DISTURB ZONE
100' BUFFER ZONE
200' BUFFER
400' BUFFER
RIVERFRONT AREA
FEMA 100 YEAR FLOOD PLAIN
CALCULATED 100 YEAR FLOOD PLAIN
FLOOD PLAN 25' BUFFER
FLOOD PLAN 100' BUFFER
WsPA PRIMARY ZONE
WsPA SECONDARY ZONE
DISPOSAL SITE BOUNDARY
100' VERNAL POOL RESOURCE AREA
200' VERNAL POOL BUFFER ZONE
SYNTHETIC TURF, COLORS 1 & 2
VEHICULAR HOT MIX ASPHALT PAVEMENT
PEDESTRIAN HOT MIX ASPHALT PAVEMENT
CAST-IN-PLACE CONCRETE PAVEMENT, COLOR 1
CAST-IN-PLACE CONCRETE PAVEMENT, COLOR 2
POURED-IN-PLACE RUBBER SAFETY SURFACING
TRAIL SURFACING
REINFORCED SOIL SLOPE W/ RIPRAP FACING
TREELINE
GRANITE BLOCK SEAT WALL
REINFORCED SOIL SLOPE W/ BOULDER FACING
SEGMENTAL BLOCK RETAINING WALL
CAST-IN-PLACE CONCRETE RETAINING WALL
EXPANSION JOINT
SCORE JOINT
SPLIT RAIL FENCE
BLACK VINYL CHAIN LINK FENCE
WOOD GUARDRAIL
ORNAMENTAL METAL PICKET FENCE
20' HT. BALL NETTING
SPORTS LIGHT
ROADWAY LIGHT
PEDESTRIAN LIGHT
SECURITY CAMERA
BLEACHER SEATING
PICNIC TABLE
CAFE TABLES
BENCH
SCOREBOARD
HYDRANT
TRASH RECEPTACLE
BLUE SAFETY LIGHT
ELECTRIC VEHICLE CHARGING STATION
BIKE RACK
ENTRY SIGN
DOUBLE POST
PEDESTAL SIGN
REGULATORY SIGN, SEE SCHEDULE
PREFABRICATED ELEVATED BOARDWALK
VERTICAL GRANITE CURB
BITUMINOUS CONCRETE CURB
TRANSITION CURB
FLUSH GRANITE CURB
MOUNTABLE GRANITE CURB
BLACK VINYL CHAIN LINK CONCRETE
TYPICAL
PROPOSED
SCORE JOINT
EXPANSION JOINT
POURED-IN-PLACE

DAWSON SIGN SCHEDULE

Table with 3 columns: QTY, TYPE, SIGN TYPE. Includes rows for 'NO PARKING ANY TIME', 'H.C. PARKING', and 'H.C. PARKING VAN'.



Project: INDUSTRIAL DRIVE ATHLETIC FIELDS & DAWSON RECREATION IMPROVEMENTS. HOLDEN, MA logo.

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Revisions table with columns: No., Date, Description.

COA table with columns: No., Date, Description.

Seal area containing a circular professional seal and signature.

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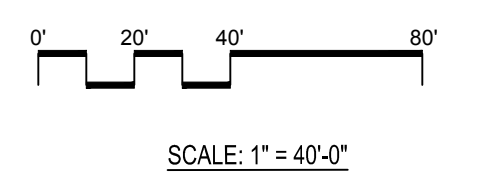
Date: 02/14/2024
Drawn By: AG, KH
Reviewed By: JM
Approved By: BK

W&S Project No.: ENG22 - 0852
W&S File No.:

MATERIALS PLAN - DAWSON RECREATION
Sheet Number: L303

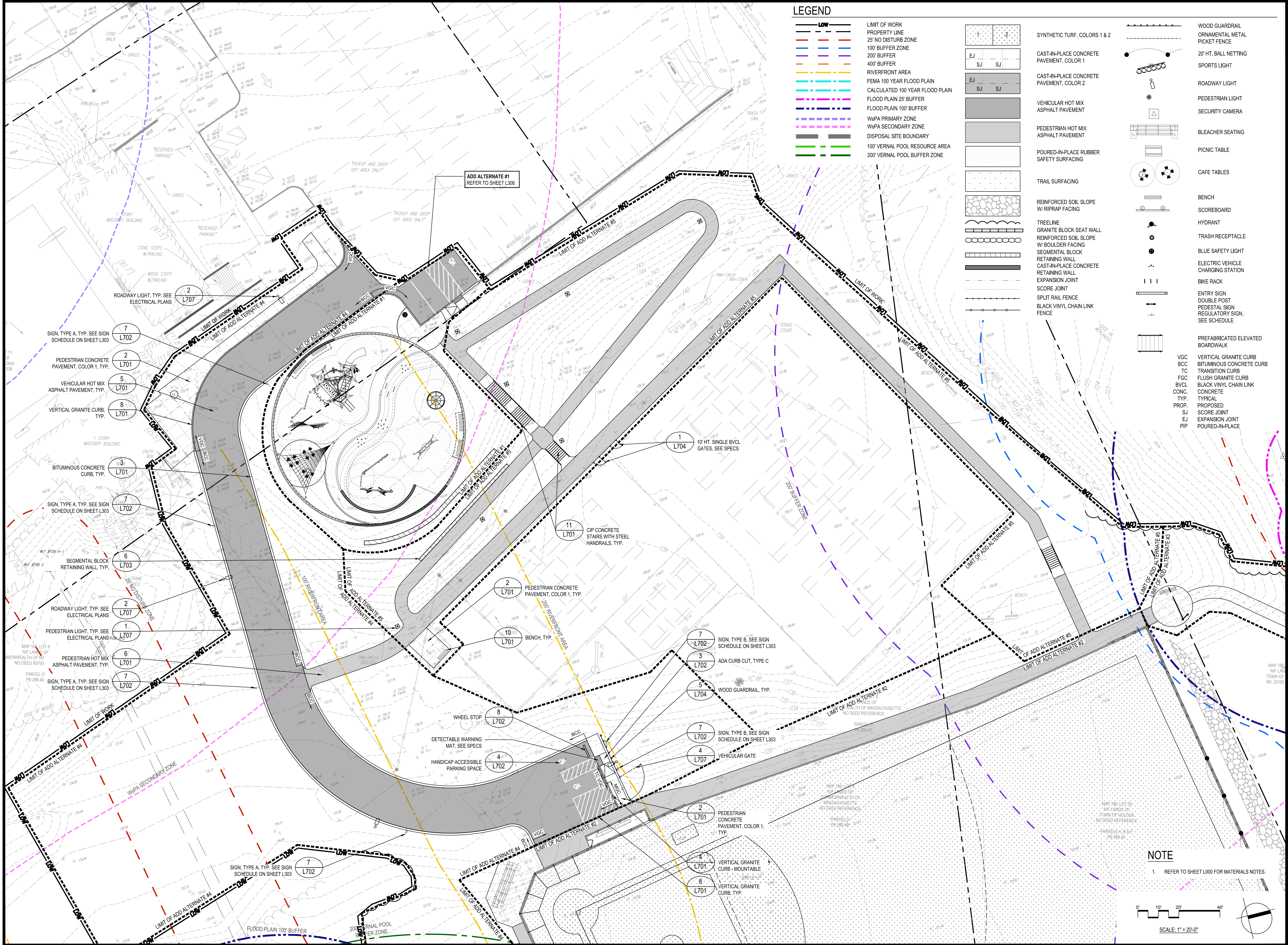
NOTE

- 1. REFER TO SHEET L000 FOR MATERIALS NOTES.



SCALE: 1" = 40'-0"

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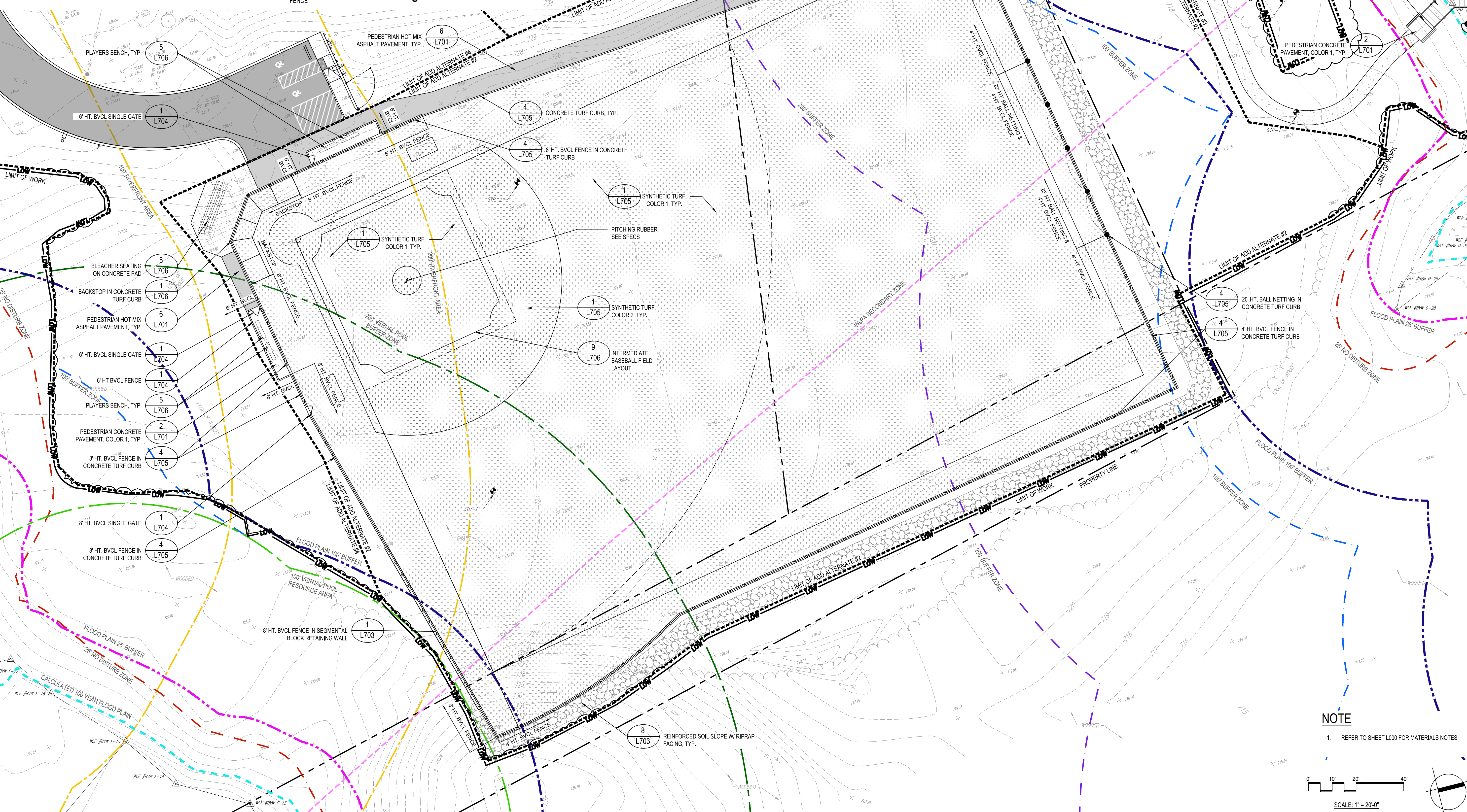
Date:	02/14/2024
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Approved By:	BK
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Date:	02/14/2024
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Reviewed By:	JM
Approved By:	BK
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W&S File No.:	

Drawing Title:
MATERIALS PLAN - DAWSON RECREATION
Sheet Number:
L304

LEGEND

- LIMIT OF WORK
- PROPERTY LINE
- 25' NO DISTURB ZONE
- 100' BUFFER ZONE
- 200' BUFFER ZONE
- 400' BUFFER ZONE
- RIVERFRONT AREA
- FEMA 100 YEAR FLOOD PLAIN
- CALCULATED 100 YEAR FLOOD PLAIN
- FLOOD PLAIN 25' BUFFER
- FLOOD PLAIN 100' BUFFER
- W&PA PRIMARY ZONE
- W&PA SECONDARY ZONE
- DISPOSAL SITE BOUNDARY
- 100' VERNAL POOL RESOURCE AREA
- 200' VERNAL POOL BUFFER ZONE
- SYNTHETIC TURF, COLORS 1 & 2
- CAST-IN-PLACE CONCRETE PAVEMENT, COLOR 1
- CAST-IN-PLACE CONCRETE PAVEMENT, COLOR 2
- VEHICULAR HOT MIX ASPHALT PAVEMENT
- PEDESTRIAN HOT MIX ASPHALT PAVEMENT
- POURED-IN-PLACE RUBBER SAFETY SURFACING
- TRAIL SURFACING
- REINFORCED SOIL SLOPE W/ RIPRAP FACING
- TREE LINE
- GRANITE BLOCK SEAT WALL
- REINFORCED SOIL SLOPE W/ BOULDER FACING
- SEGMENTAL BLOCK RETAINING WALL
- CAST-IN-PLACE CONCRETE RETAINING WALL
- EXPANSION JOINT
- SCORE JOINT
- SPLIT RAIL FENCE
- BLACK VINYL CHAIN LINK FENCE
- WOOD GUARDRAIL
- ORNAMENTAL METAL PICKET FENCE
- 20' HT. BALL NETTING
- SPORTS LIGHT
- ROADWAY LIGHT
- PEDESTRIAN LIGHT
- SECURITY CAMERA
- BLEACHER SEATING
- PICNIC TABLE
- CAFE TABLES
- BENCH
- SCOREBOARD
- HYDRANT
- TRASH RECEPTACLE
- TRASH RECEPTACLE
- BLUE SAFETY LIGHT
- ELECTRIC VEHICLE CHARGING STATION
- BIKE RACK
- ENTRY SIGN
- DOUBLE POST PEDESTAL SIGN
- REGULATORY SIGN, SEE SCHEDULE
- PREFABRICATED ELEVATED BOARDWALK
- VGC
- BCC
- TC
- FGC
- BVCL CONG. TYP. PROP. SJ EJ PIP
- VERTICAL GRANITE CURB
- BITUMINOUS CONCRETE CURB
- TRANSITION CURB
- FLUSH GRANITE CURB
- BLACK VINYL CHAIN LINK CONCRETE TYP. PROP. SJ EJ PIP



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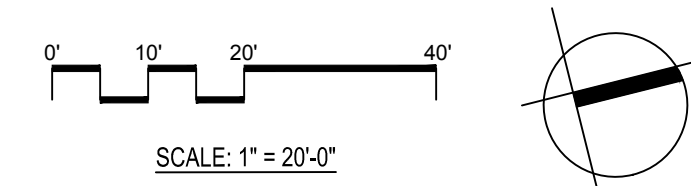
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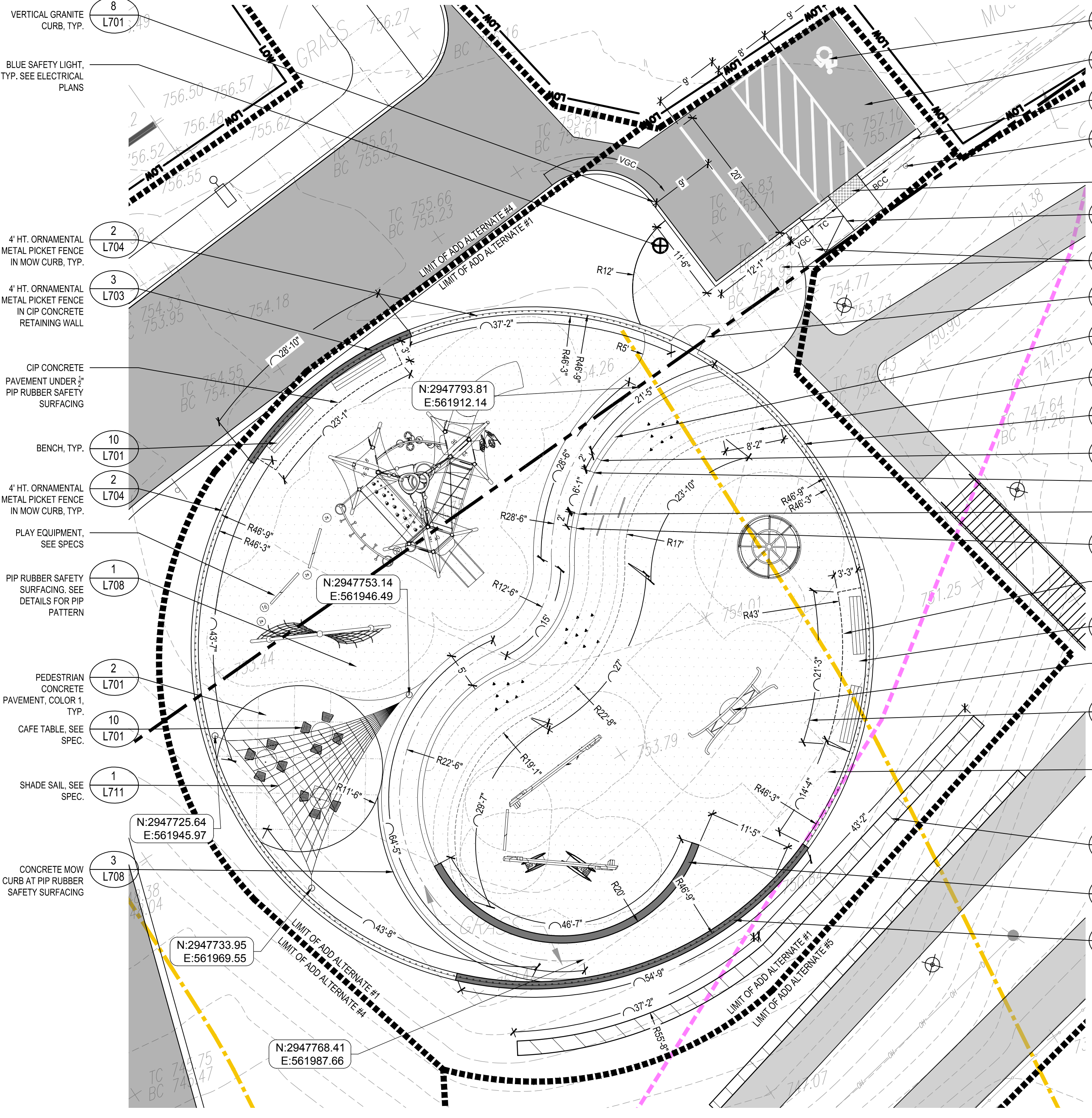
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**MATERIALS
 PLAN -
 DAWSON
 RECREATION**

Sheet Number:
L305

NOTE

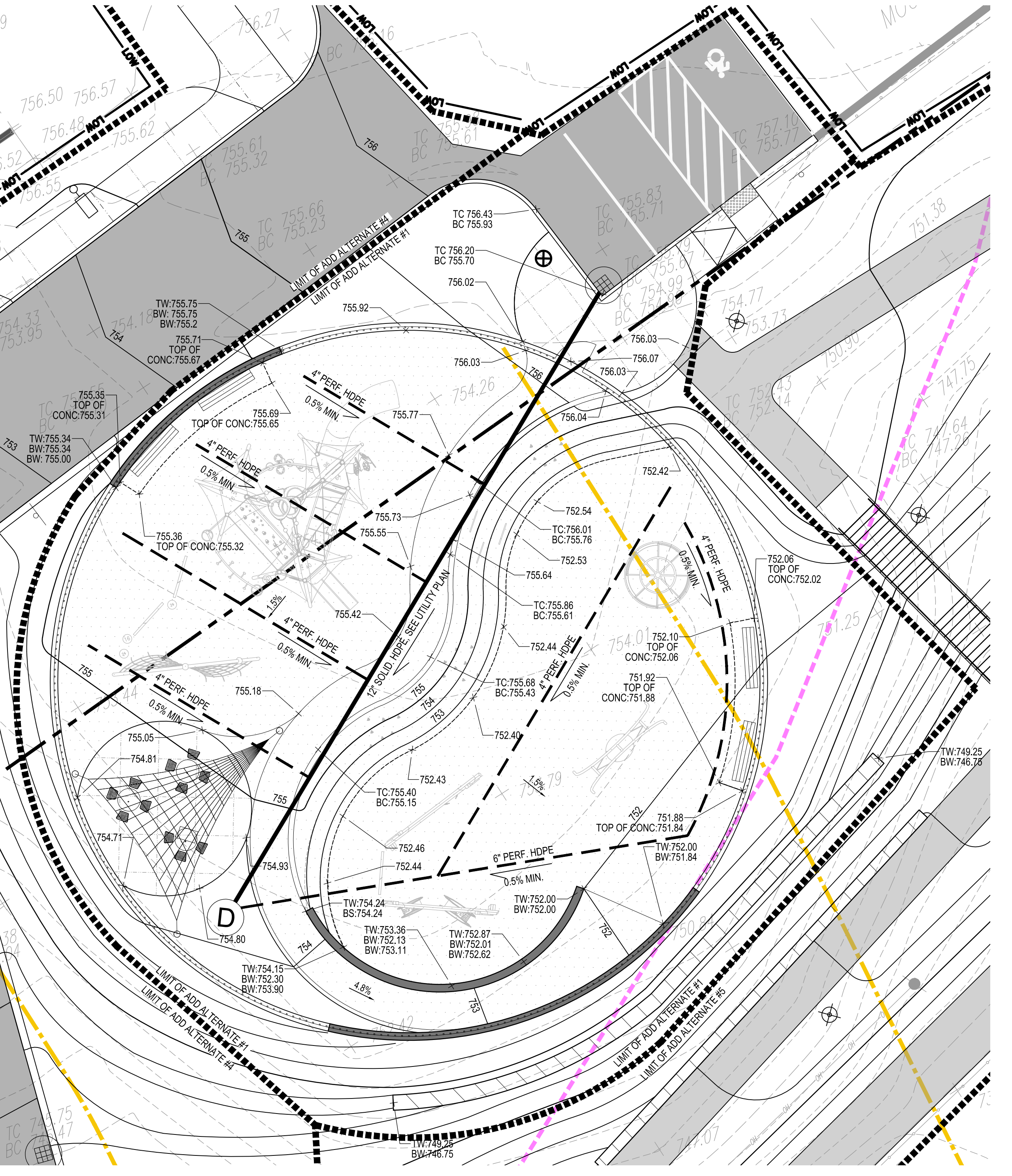
1. REFER TO SHEET L000 FOR MATERIALS NOTES.





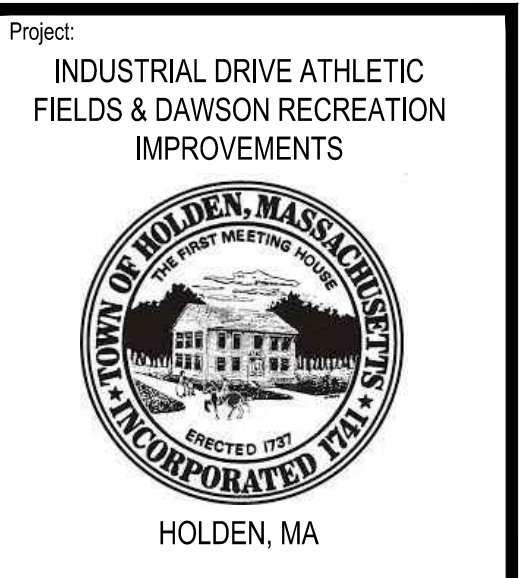
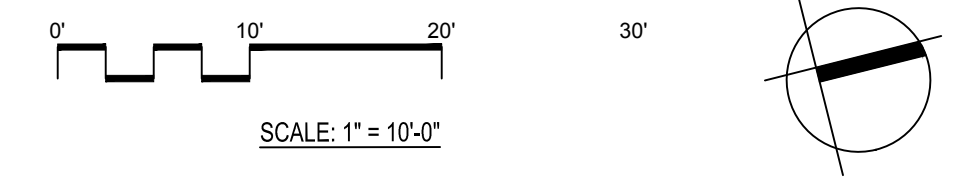
- 4 L702 HANDICAP ACCESSIBLE PARKING SPACE
- 5 L701 VEHICULAR HOT MIX ASPHALT PAVEMENT, TYP.
- 3 L701 BITUMINOUS CONCRETE CURB, TYP.
- 7 L702 SIGN, TYPE C, SEE SIGN SCHEDULE ON SHEET L303
- 3 DETECTABLE WARNING MAT, SEE SPECS
- 3 ADA CURB CUT, TYPE C
- 2 L701 PEDESTRIAN CONCRETE PAVEMENT, COLOR 1, TYP.
- 2 L704 4' HT. ORNAMENTAL METAL PICKET DOUBLE GATE
- 8 L708 PIP RUBBER SAFETY SURFACING CURB
- 6 L708 LIMIT OF SLOPED PIP RUBBER SAFETY SURFACING
- 2 L704 4' HT. ORNAMENTAL METAL PICKET FENCE IN MOW CURB, TYP.
- 8 L708 BEGINNING OF 3" HT. PIP CURB
- 8 L708 BEGINNING OF PIP TRANSITION CURB
- 8 L708 BEGINNING OF PIP TRANSITION CURB
- 8 L708 BEGINNING OF 3" HT. PIP CURB
- 10 L701 BENCH, TYP.
- 2 L701 PEDESTRIAN CONCRETE PAVEMENT, COLOR 1, TYP.
- 10 L701 CAFE TABLE, SEE SPEC.
- 1 L711 SHADE SAIL, SEE SPEC.
- 3 L708 CONCRETE MOW CURBS AT PIP RUBBER SAFETY SURFACING
- 4 L702 4' HT. ORNAMENTAL METAL PICKET FENCE IN MOW CURB, TYP.
- 3 L703 CIP CONCRETE RETAINING WALL, TYP.
- 3 L703 4' HT. ORNAMENTAL METAL PICKET FENCE IN CIP CONCRETE RETAINING WALL

1 ADD ALTERNATE #1 - DAWSON PLAYGROUND MATERIALS & LAYOUT PLAN
 SCALE: 1" = 10'-0"



2 ADD ALTERNATE #1 - DAWSON PLAYGROUND GRADING & DRAINAGE PLAN
 SCALE: 1" = 10'-0"

NOTE
 1. REFER TO SHEET L000 FOR MATERIALS NOTES.



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Drawing Title:
MATERIALS PLAN - DAWSON RECREATION

Sheet Number:
L306

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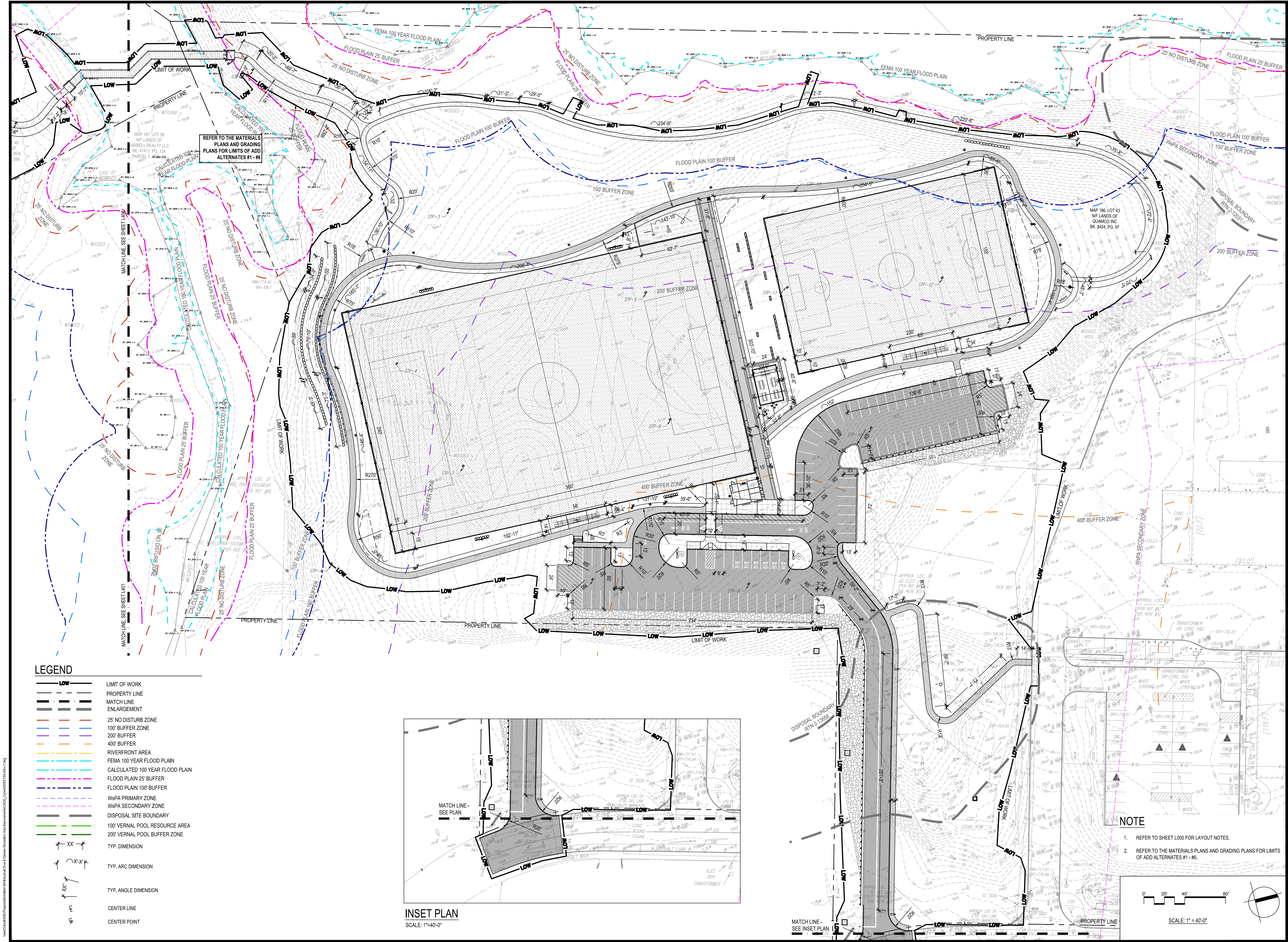
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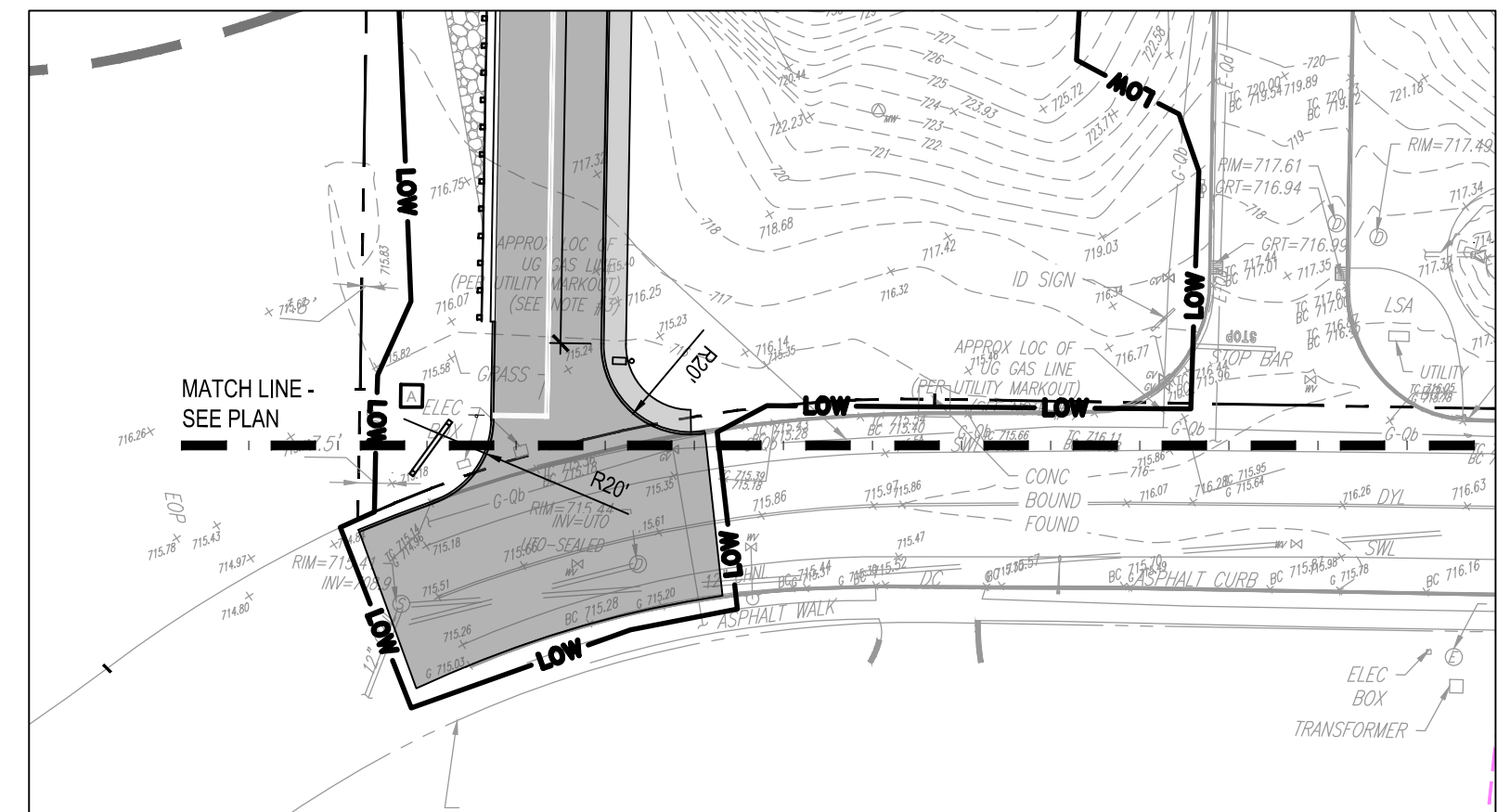
Drawing Title:
**LAYOUT
 PLAN -
 INDUSTRIAL
 DRIVE**

Sheet Number:
L400



LEGEND

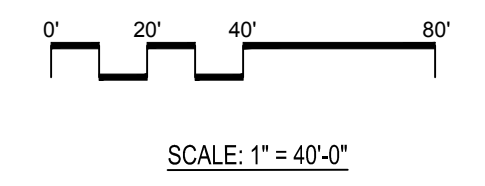
	LIMIT OF WORK
	PROPERTY LINE
	MATCH LINE
	ENLARGEMENT
	25' NO DISTURB ZONE
	100' BUFFER ZONE
	200' BUFFER
	400' BUFFER
	RIVERFRONT AREA
	FEMA 100 YEAR FLOOD PLAIN
	CALCULATED 100 YEAR FLOOD PLAIN
	FLOOD PLAIN 25' BUFFER
	FLOOD PLAIN 100' BUFFER
	WsPA PRIMARY ZONE
	WsPA SECONDARY ZONE
	DISPOSAL SITE BOUNDARY
	100' VERNAL POOL RESOURCE AREA
	200' VERNAL POOL BUFFER ZONE
	TYP. DIMENSION
	TYP. ARC DIMENSION
	TYP. ANGLE DIMENSION
	CENTER LINE
	CENTER POINT



INSET PLAN
 SCALE: 1" = 40'-0"

NOTE

- REFER TO SHEET L000 FOR LAYOUT NOTES.
- REFER TO THE MATERIALS PLANS AND GRADING PLANS FOR LIMITS OF ADD ALTERNATES #1 - #6.



LEGEND

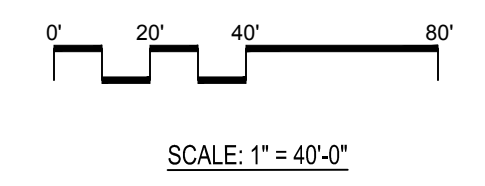
- LIMIT OF WORK
- PROPERTY LINE
- MATCH LINE
- ENLARGEMENT
- 25' NO DISTURB ZONE
- 100' BUFFER ZONE
- 200' BUFFER
- 400' BUFFER
- RIVERFRONT AREA
- FEMA 100 YEAR FLOOD PLAIN
- CALCULATED 100 YEAR FLOOD PLAIN
- FLOOD PLAIN 25' BUFFER
- FLOOD PLAIN 100' BUFFER
- WsPA PRIMARY ZONE
- WsPA SECONDARY ZONE
- DISPOSAL SITE BOUNDARY
- 100' VERNAL POOL RESOURCE AREA
- 200' VERNAL POOL BUFFER ZONE
- TYP. DIMENSION
- TYP. ARC DIMENSION
- TYP. ANGLE DIMENSION
- CENTER LINE
- CENTER POINT



REFER TO THE MATERIALS PLANS AND GRADING PLANS FOR LIMITS OF ADD ALTERNATES #1 - #6

NOTE

1. REFER TO SHEET L000 FOR LAYOUT NOTES.
2. REFER TO THE MATERIALS PLANS AND GRADING PLANS FOR LIMITS OF ADD ALTERNATES #1 - #6.



Project:
**INDUSTRIAL DRIVE ATHLETIC
 FIELDS & DAWSON RECREATION
 IMPROVEMENTS**

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 W&S File No.:

Drawing Title:
**LAYOUT
 PLAN - DAWSON
 RECREATION**

Sheet Number:
L401

Consultants:

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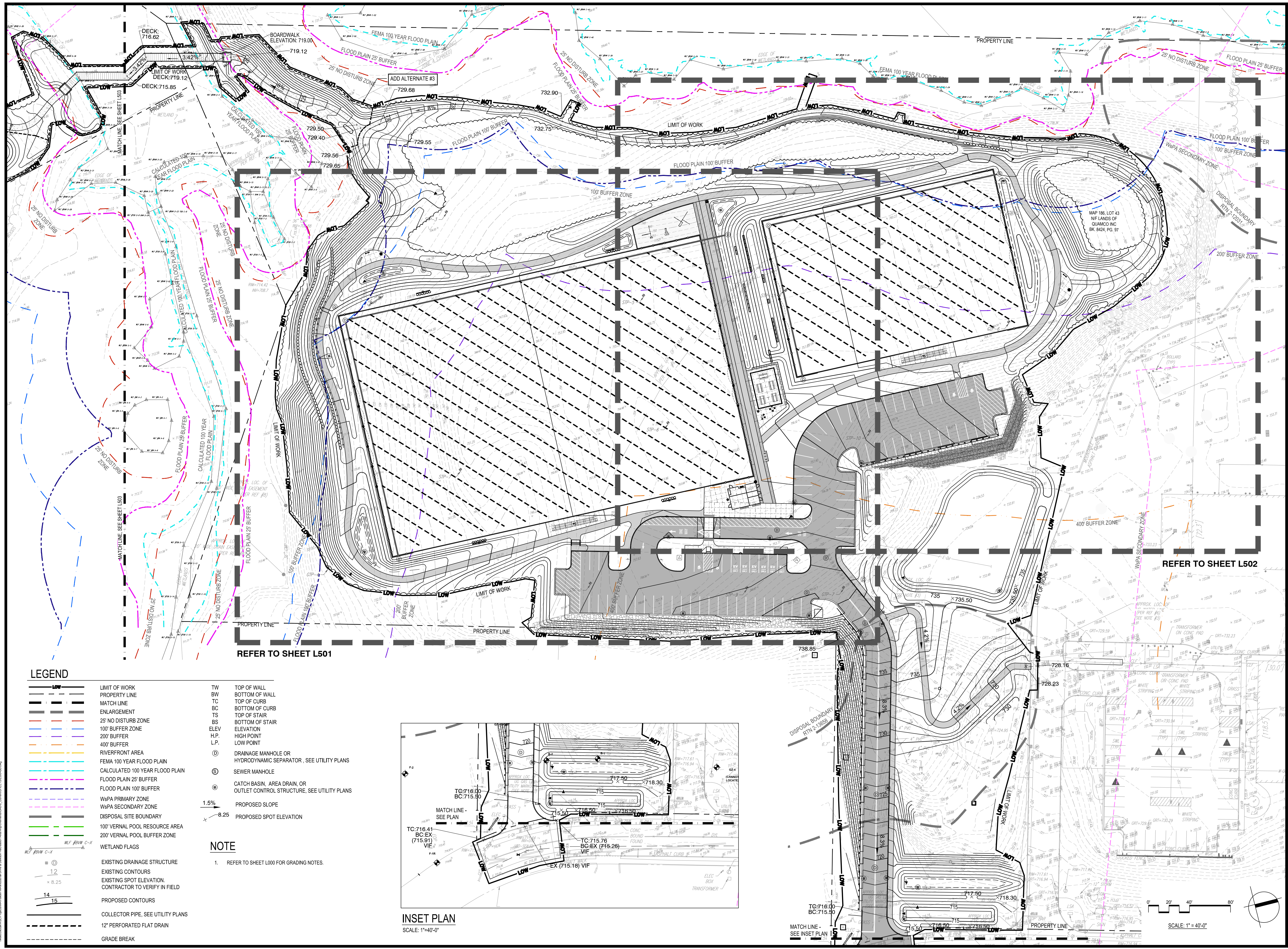


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Drawing Title:
GRADING PLAN - INDUSTRIAL DRIVE
Sheet Number:
L500

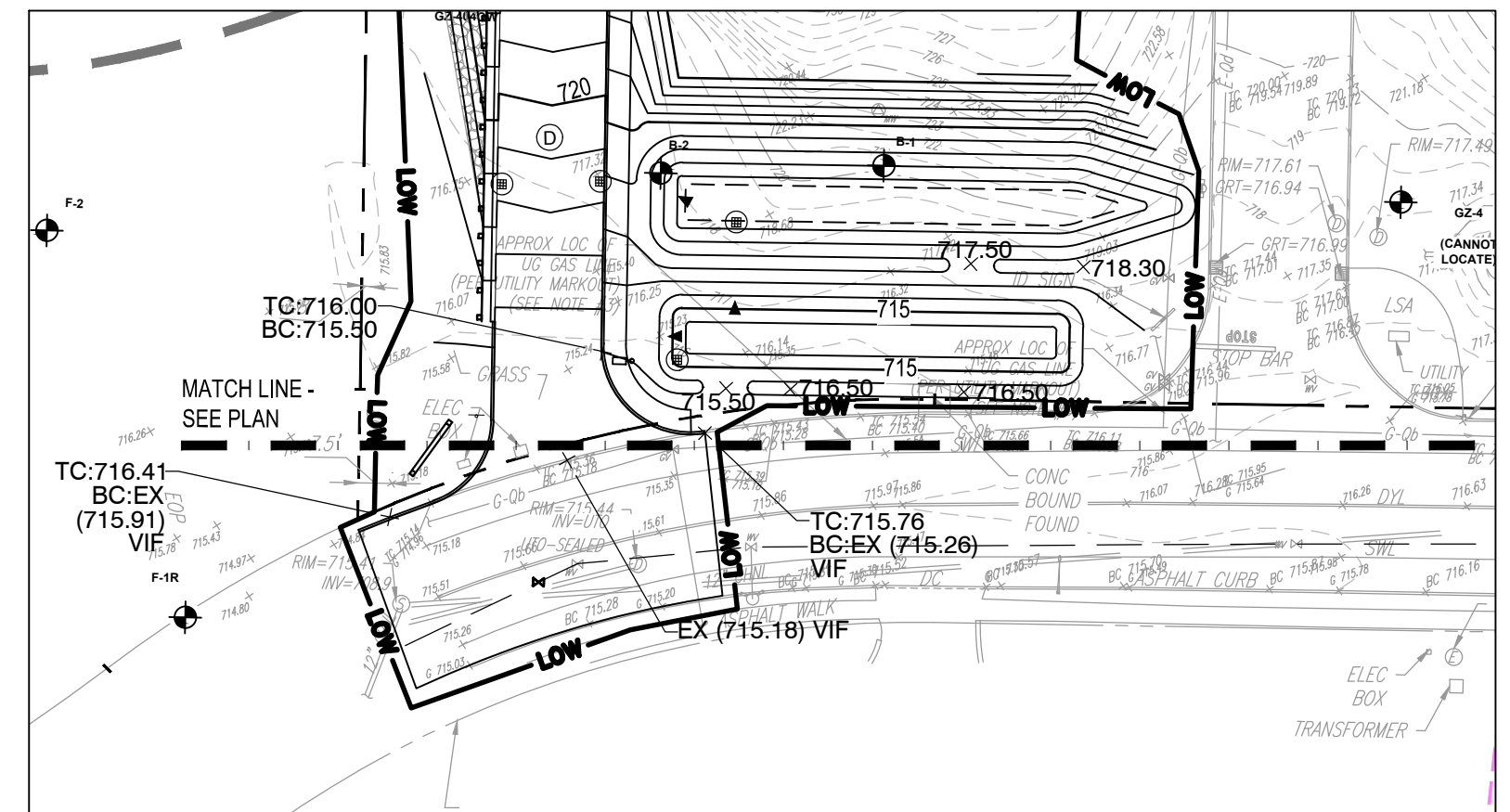


LEGEND

- | | | | |
|--|-----------------------------------|-------|---|
| | LIMIT OF WORK | TW | TOP OF WALL |
| | PROPERTY LINE | BW | BOTTOM OF WALL |
| | MATCH LINE | TC | TOP OF CURB |
| | ENLARGEMENT | BC | BOTTOM OF CURB |
| | 25' NO DISTURB ZONE | TS | TOP OF STAIR |
| | 100' BUFFER ZONE | BS | BOTTOM OF STAIR |
| | 200' BUFFER ZONE | ELEV | ELEVATION |
| | 400' BUFFER ZONE | H.P. | HIGH POINT |
| | RIVERFRONT AREA | L.P. | LOW POINT |
| | FEMA 100 YEAR FLOOD PLAIN | ⊙ | DRAINAGE MANHOLE OR HYDRODYNAMIC SEPARATOR. SEE UTILITY PLANS |
| | CALCULATED 100 YEAR FLOOD PLAIN | ⊙ | SEWER MANHOLE |
| | FLOOD PLAIN 25' BUFFER | ⊙ | CATCH BASIN, AREA DRAIN, OR OUTLET CONTROL STRUCTURE. SEE UTILITY PLANS |
| | FLOOD PLAIN 100' BUFFER | 1.5% | PROPOSED SLOPE |
| | W&S PRIMARY ZONE | 8.25' | PROPOSED SPOT ELEVATION |
| | W&S SECONDARY ZONE | | |
| | DISPOSAL SITE BOUNDARY | | |
| | 100' VERNAL POOL RESOURCE AREA | | |
| | 200' VERNAL POOL BUFFER ZONE | | |
| | WETLAND FLAGS | | |
| | EXISTING DRAINAGE STRUCTURE | | |
| | EXISTING CONTOURS | | |
| | EXISTING SPOT ELEVATION | | |
| | CONTRACTOR TO VERIFY IN FIELD | | |
| | PROPOSED CONTOURS | | |
| | COLLECTOR PIPE. SEE UTILITY PLANS | | |
| | 12' PERFORATED FLAT DRAIN | | |
| | GRADE BREAK | | |

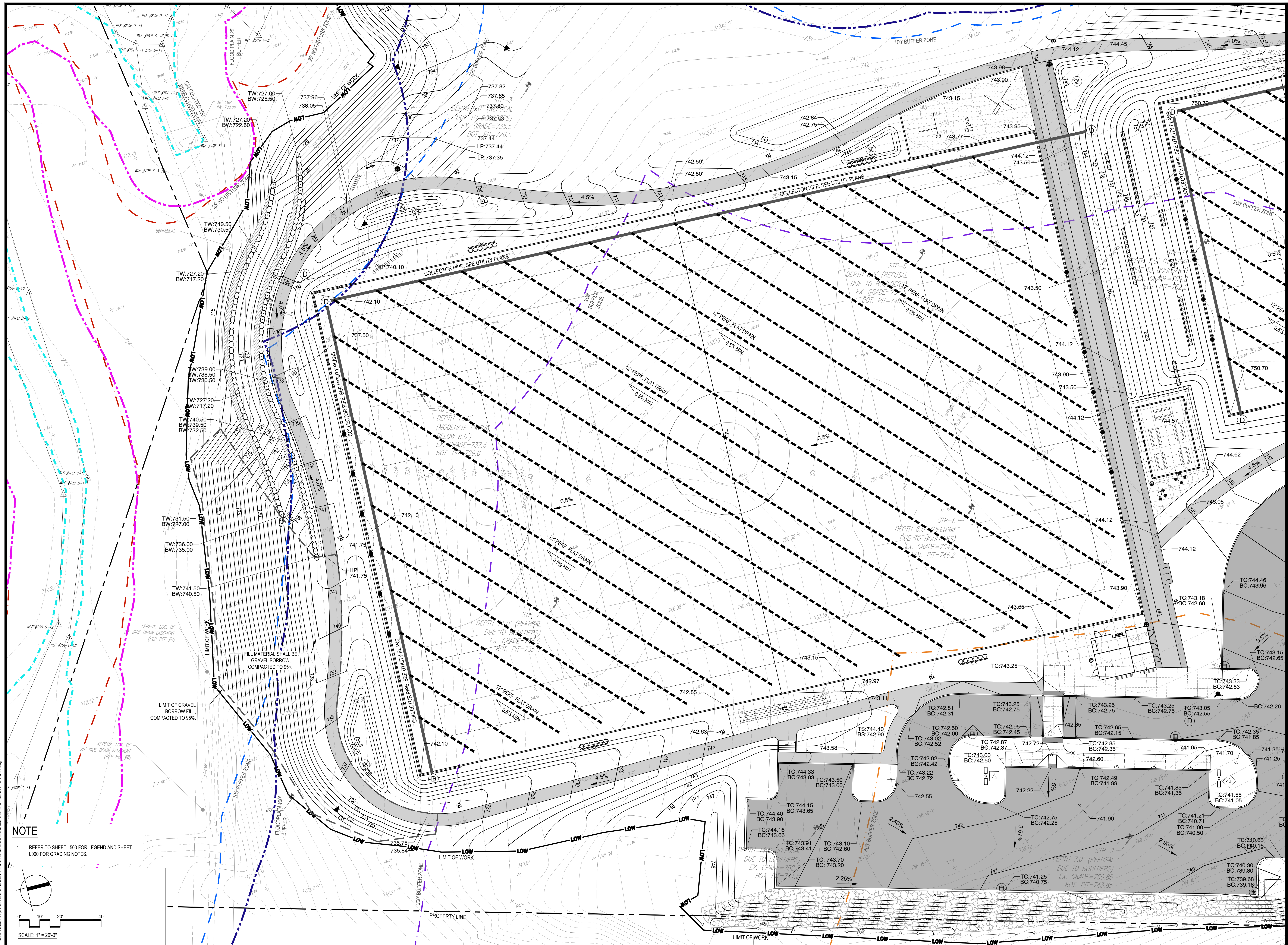
NOTE

- REFER TO SHEET L000 FOR GRADING NOTES.

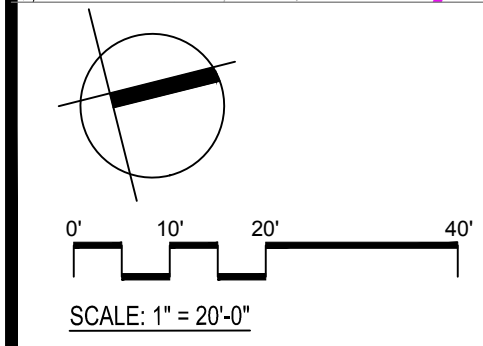


INSET PLAN
SCALE: 1"=40'-0"

SCALE: 1" = 40'-0"



NOTE
 1. REFER TO SHEET L500 FOR LEGEND AND SHEET L000 FOR GRADING NOTES.



Project:
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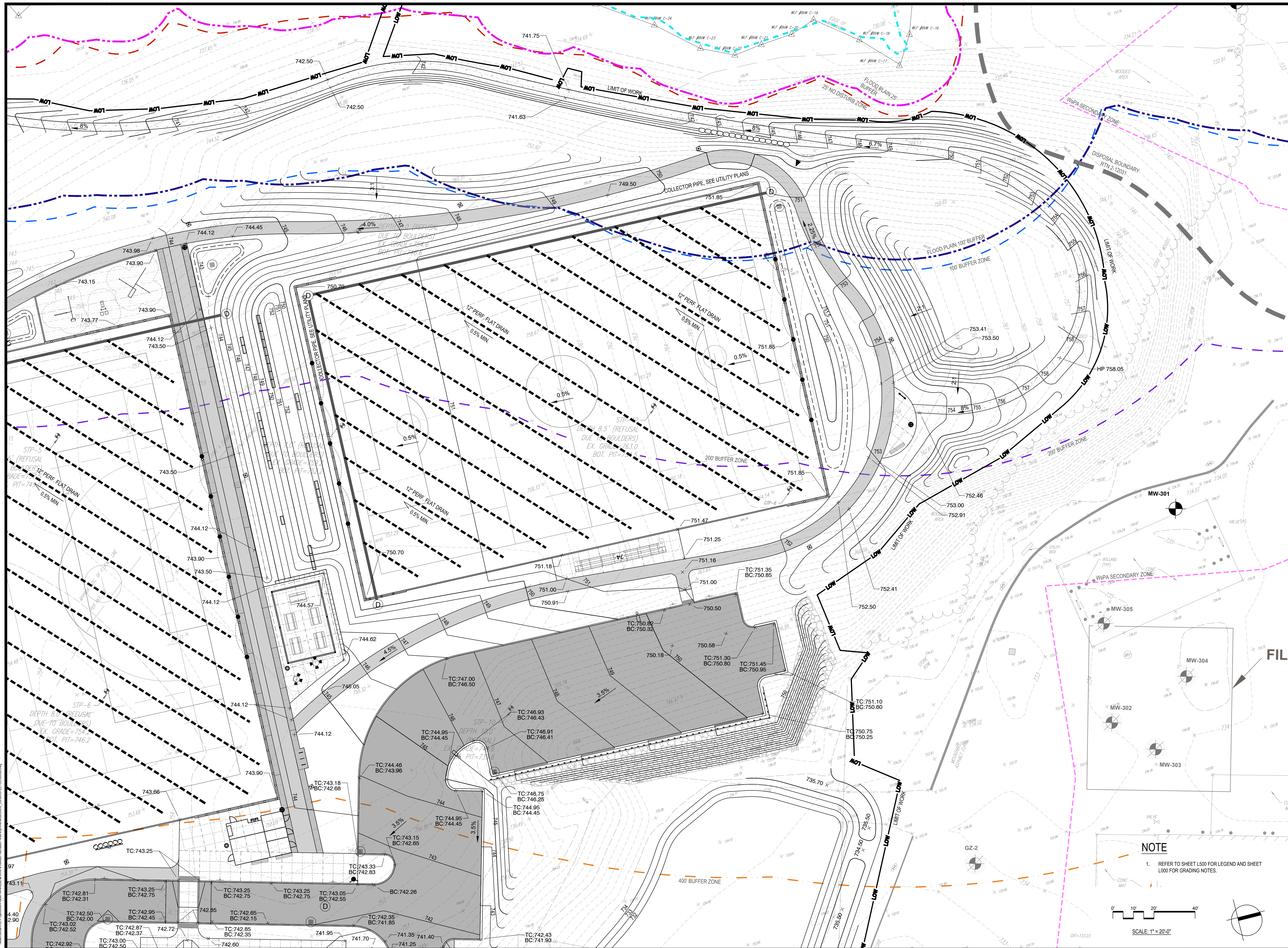
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Drawing Title:
**GRADING
 PLAN -
 INDUSTRIAL
 DRIVE**

Sheet Number:
L501



Project:
**INDUSTRIAL DRIVE ATHLETIC
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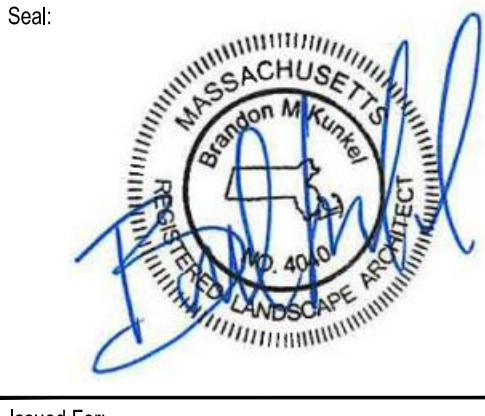
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Revisions:

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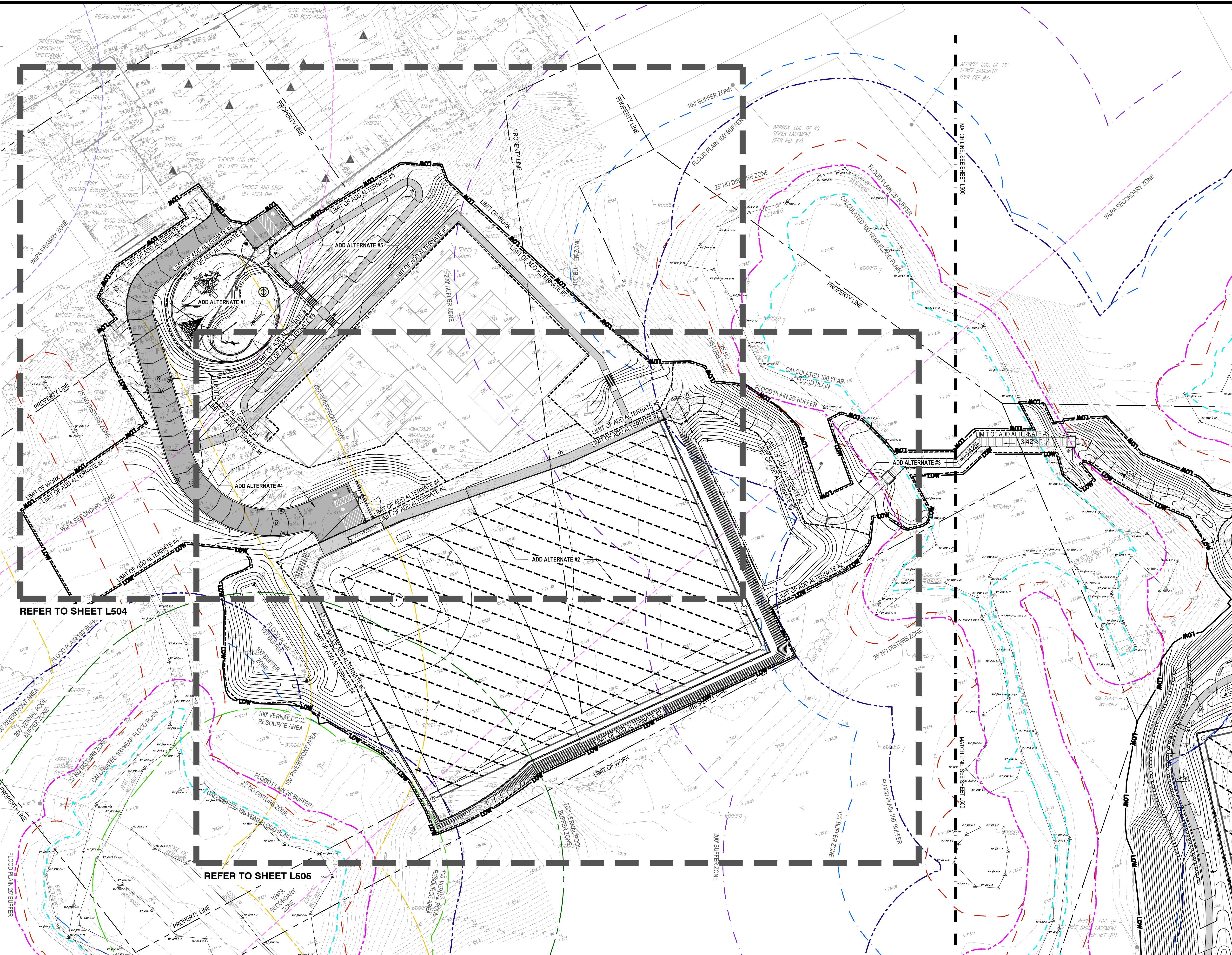
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W&S File No.:

Drawing Title:
**GRADING
PLAN -
INDUSTRIAL
DRIVE**

Sheet Number:
L502

LEGEND

- LIMIT OF WORK
- PROPERTY LINE
- MATCH LINE
- ENLARGEMENT
- 25' NO DISTURB ZONE
- 100' BUFFER ZONE
- 200' BUFFER
- 400' BUFFER
- RIVERFRONT AREA
- FEMA 100 YEAR FLOOD PLAN
- CALCULATED 100 YEAR FLOOD PLAN
- FLOOD PLAN 25' BUFFER
- FLOOD PLAN 100' BUFFER
- WSPA PRIMARY ZONE
- WSPA SECONDARY ZONE
- DISPOSAL SITE BOUNDARY
- 100' VERNAL POOL RESOURCE AREA
- 200' VERNAL POOL BUFFER ZONE
- WETLAND FLAGS
- EXISTING DRAINAGE STRUCTURE
- EXISTING CONTOURS
- EXISTING SPOT ELEVATION, CONTRACTOR TO VERIFY IN FIELD
- PROPOSED CONTOURS
- PROPOSED SLOPE
- PROPOSED SLOPE
- PROPOSED SPOT ELEVATION
- GRADE BREAK
- COLLECTOR PIPE, SEE UTILITY PLANS
- 12" PERFORATED FLAT DRAIN
- DRAINAGE MANHOLE OR HYDRODYNAMIC SEPARATOR, SEE UTILITY PLANS
- SEWER MANHOLE
- CATCH BASIN, AREA DRAIN, OR OUTLET CONTROL STRUCTURE, SEE UTILITY PLANS
- TOP OF WALL
- BOTTOM OF WALL
- TOP OF CURB
- BOTTOM OF CURB
- TOP OF STAIR
- BOTTOM OF STAIR
- ELEVATION
- HIGH POINT
- LOW POINT
- TOP OF CONCRETE

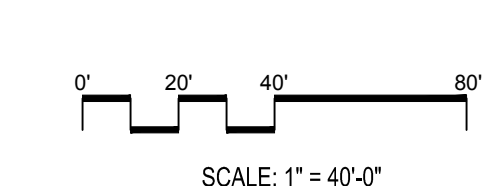


REFER TO SHEET L504

REFER TO SHEET L505

NOTE

1. REFER TO SHEET L000 FOR GRADING NOTES.



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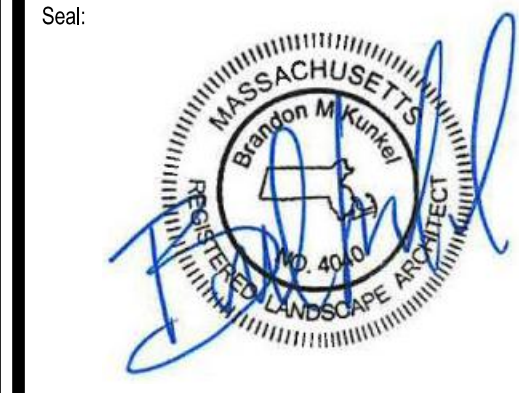
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COA:



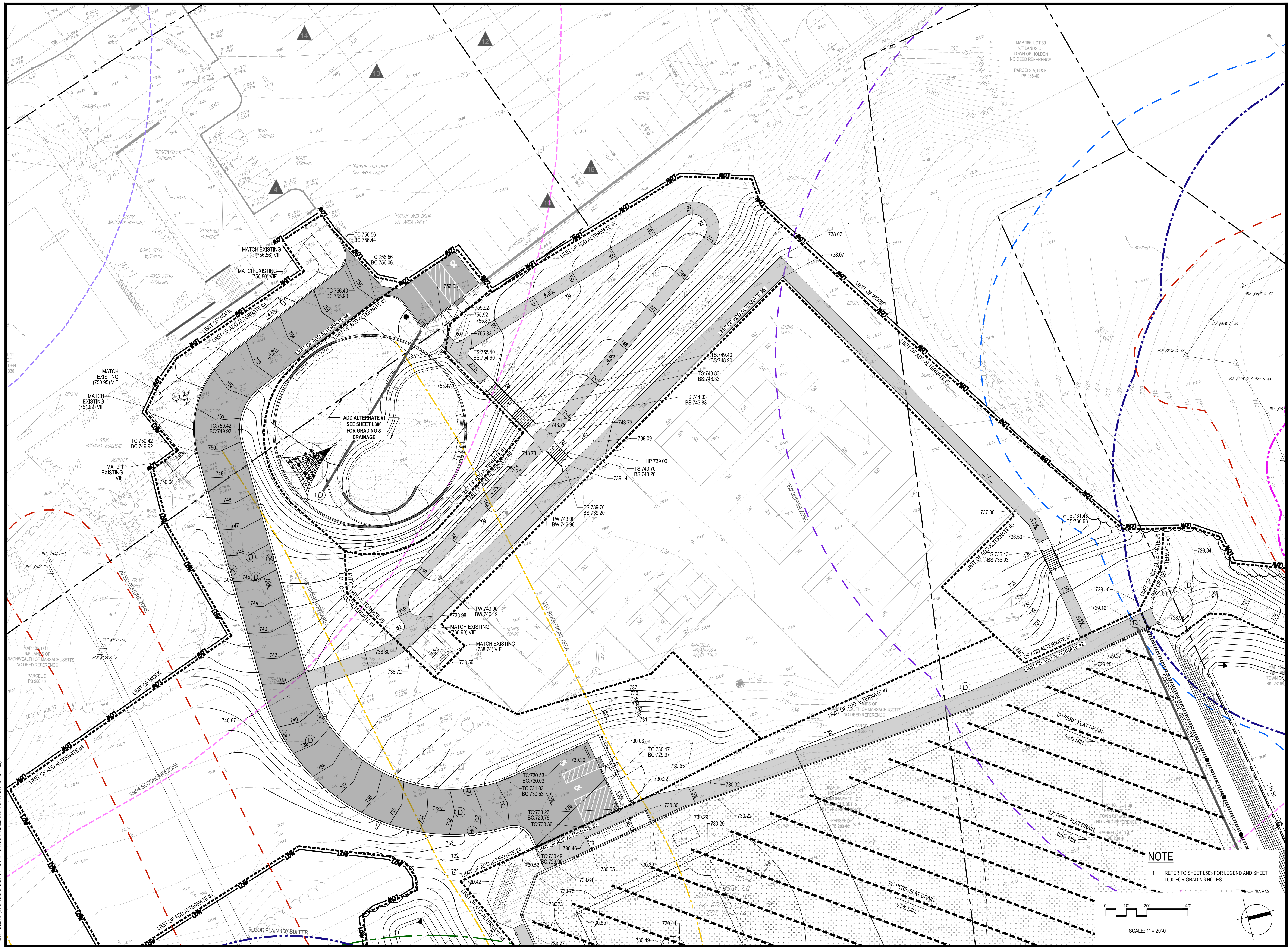
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 W&S Project No.: ENG22 - 0852
 W&S File No.:

Drawing Title:
**GRADING
 PLAN -
 DAWSON
 RECREATION**

Sheet Number:
L503



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No.	Date	Description

Revisions:

No.	Date	Description

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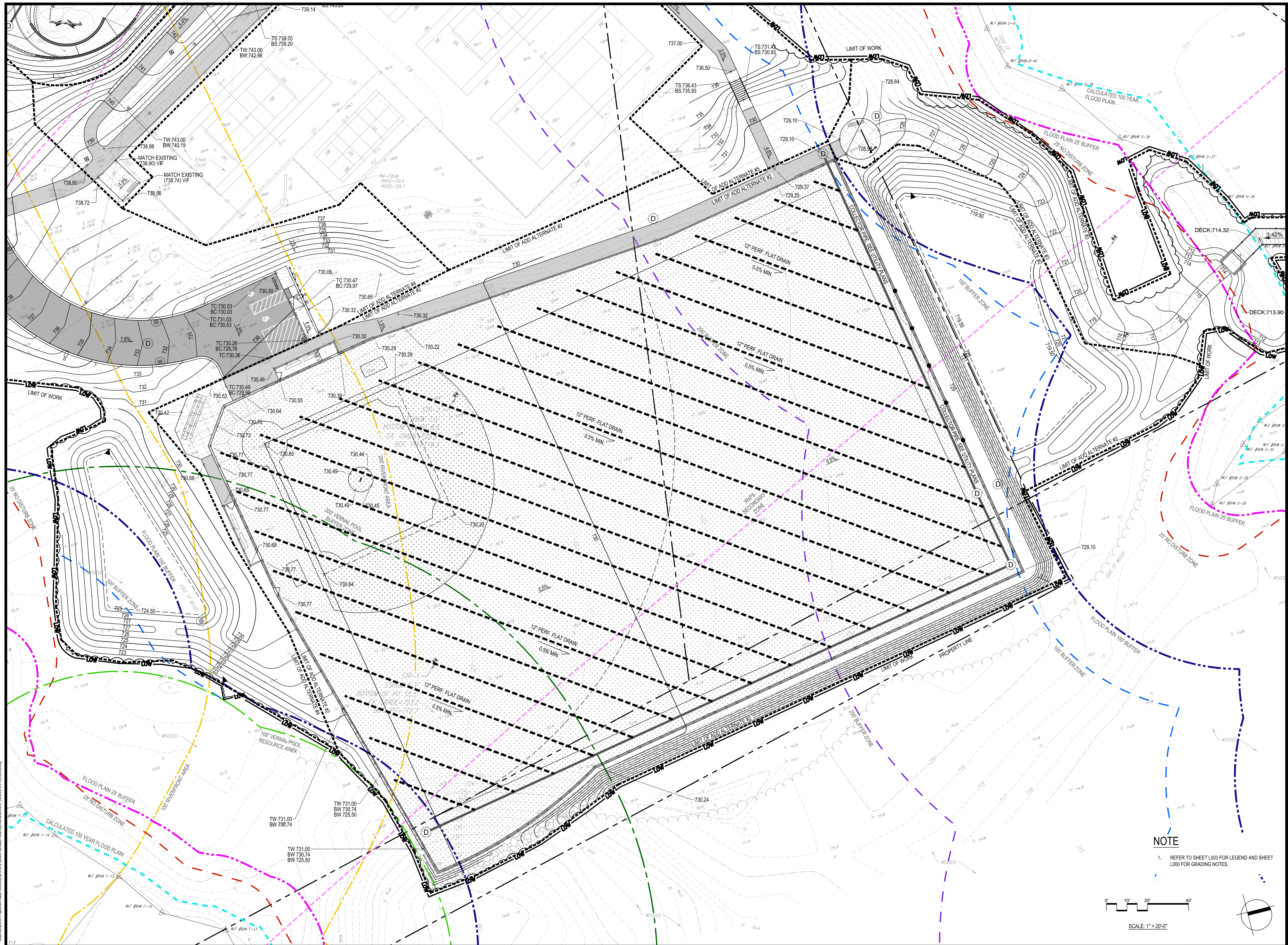
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 PLAN -
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 RECREATION**

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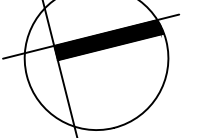
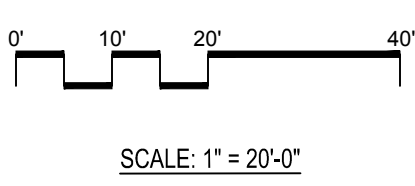
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Drawing Title:
**GRADING
 PLAN -
 DAWSON
 RECREATION**

Sheet Number:
L505

NOTE
 1. REFER TO SHEET L503 FOR LEGEND AND SHEET
 L000 FOR GRADING NOTES.

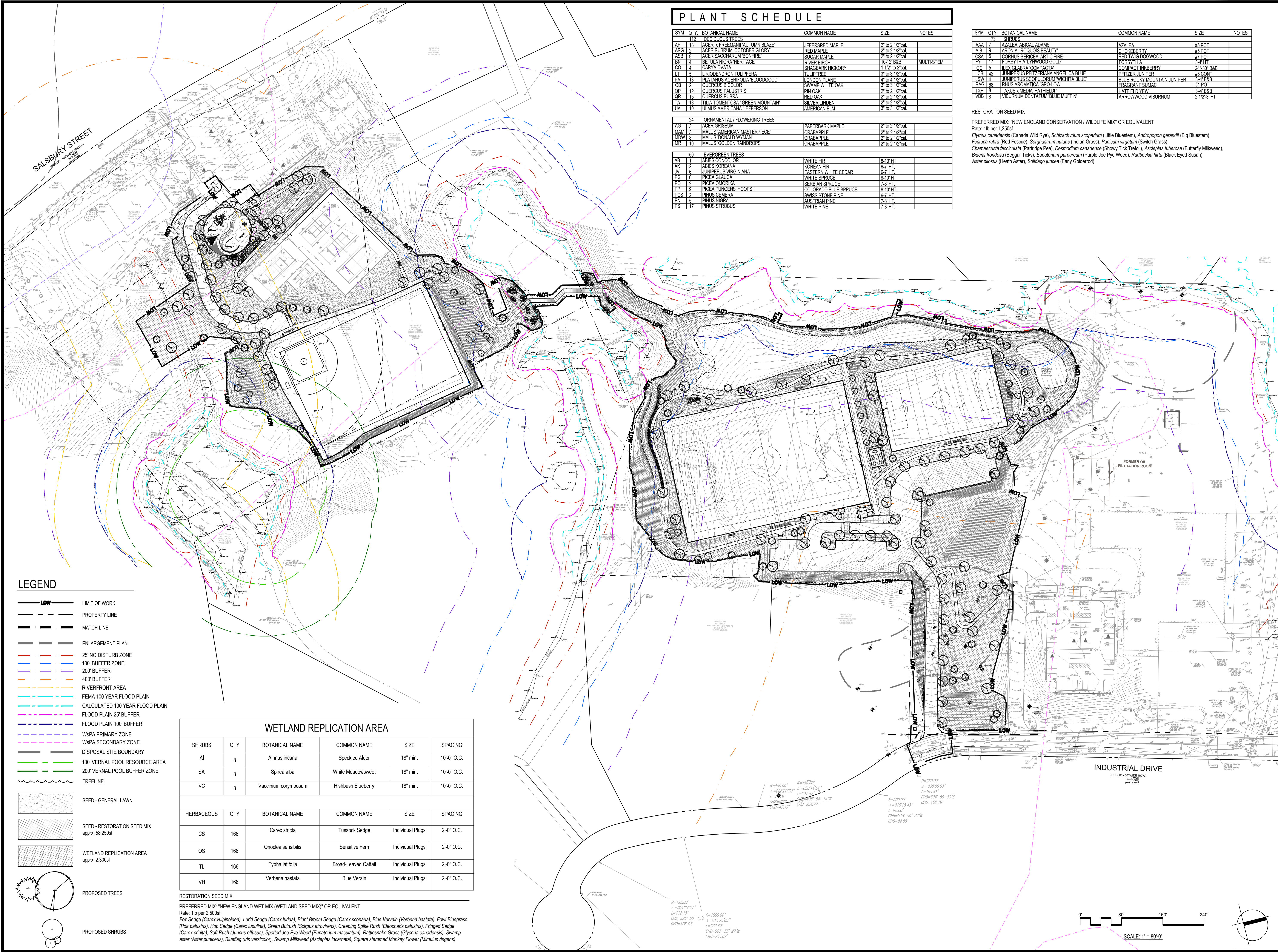


PLANT SCHEDULE

SYM	QTY.	BOTANICAL NAME	COMMON NAME	SIZE	NOTES
112 DECIDUOUS TREES					
AF	18	ACER x FREEMANI 'AUTUMN BLAZE'	JEFFERSON MAPLE	2" to 2 1/2" cal.	
ARS	2	ACER RUBRUM 'OCTOBER GLORY'	RED MAPLE	2" to 2 1/2" cal.	
ASB	9	ACER SACCHARUM 'BONFIRE'	SUGAR MAPLE	2" to 2 1/2" cal.	
BN	4	BETULA NIGRA 'HERITAGE'	RIVER BIRCH	10-12 B&B	MULTI-STEM
CO	4	CARYA OVATA	SHAGBARK HICKORY	1 1/2" to 2" cal.	
LT	5	LIRIODENDRON TULIPIFERA	TULIP TREE	3" to 3 1/2" cal.	
PA	13	PLATANUS ACERIFOLIA 'BLOODGOOD'	LONDON PLANE	4" to 4 1/2" cal.	
QB	2	QUERCUS BICOLOR	SWAMP WHITE OAK	3" to 3 1/2" cal.	
QP	12	QUERCUS PALUSTRIS	PIN OAK	2" to 2 1/2" cal.	
QK	15	QUERCUS RUBRA	RED OAK	2" to 2 1/2" cal.	
TA	18	TILIA TOMENTOSA 'GREEN MOUNTAIN'	SILVER LINDEN	2" to 2 1/2" cal.	
UA	10	ULMUS AMERICANA 'JEFFERSON'	AMERICAN ELM	3" to 3 1/2" cal.	
24 ORNAMENTAL FLOWERING TREES					
AG	3	ACER GRiseum	PAPERBARK MAPLE	2" to 2 1/2" cal.	
MAM	3	MALUS 'AMERICAN MASTERPIECE'	CRABAPPLE	2" to 2 1/2" cal.	
MDW	3	MALUS 'DONALD WYMAN'	CRABAPPLE	2" to 2 1/2" cal.	
MK	10	MALUS 'GOLDEN RAINBOWS'	CRABAPPLE	2" to 2 1/2" cal.	
50 EVERGREEN TREES					
AB	1	ABIES CONCOLOR	WHITE FIR	8-10' HT.	
AK	2	ABIES KOREANA	KOREAN FIR	8-10' HT.	
JV	6	JUNIPERUS VIRGINIANA	EASTERN WHITE CEDAR	8-10' HT.	
PG	6	PICEA GLAUCA	WHITE SPRUCE	8-10' HT.	
PO	2	PICEA OMORICA	SERBIAN SPRUCE	7-8' HT.	
PP	3	PICEA PINESIS 'WOODSII'	COLORADO BLUE SPRUCE	8-10' HT.	
PCS	2	PINUS CEMBRA	SWISS STONE PINE	8-10' HT.	
PN	5	PINUS NIGRA	AUSTRIAN PINE	7-8' HT.	
PS	17	PINUS STROBUS	WHITE PINE	7-8' HT.	

SYM	QTY.	BOTANICAL NAME	COMMON NAME	SIZE	NOTES
173 SHRUBS					
AAA	7	AZALEA 'BIRCAL ADAMS'	AZALEA	#5 POT	
AB	9	ARONIA 'ROCKY'S BEAUTY'	CHOKEBERRY	#5 POT	
CSA	5	CORNUS SERICEA 'ARTIC FIRE'	RED TWIG DOGWOOD	#7 POT	
FY	17	FORSYTHIA 'LYNWOOD GOLD'	FORSYTHIA	3-4' HT.	
IIG	5	ILEX GLABRA 'COMPACTA'	COMPACT INKBERRY	24-30" B&B	
JOB	42	JUNIPERUS PHOENICIANA 'ANGELICA BLUE'	PRITTER JUNIPER	#5 CONT.	
JSW	4	JUNIPERUS SCOPULORUM 'WICHITA BLUE'	BLUE ROCKY MOUNTAIN JUNIPER	3-4' B&B	
RAG	68	RHUS AROMATICA 'GRO-L-O-W'	FRAGRANT SUMAC	#1 POT	
TAX	8	TAXUS x MEDIA 'HATFIELD'	HATFIELD YEW	3-4' B&B	
VDB	9	VIBURNUM DENTATUM 'BLUE MUFFIN'	ARROWWOOD VIBURNUM	2-1/2-3' HT.	

RESTORATION SEED MIX
 PREFERRED MIX: 'NEW ENGLAND CONSERVATION / WILDLIFE MIX' OR EQUIVALENT
 Rate: 1lb per 2,500sf
Elymus canadensis (Canada Wild Rye), *Schizachyrium scoparium* (Little Bluestem), *Andropogon gerardii* (Big Bluestem), *Festuca rubra* (Red Fescue), *Sorghastrum nutans* (Indian Grass), *Panicum virgatum* (Switch Grass), *Chamaecrista fasciculata* (Partridge Pea), *Desmodium canadense* (Showy Tick Trefoil), *Asclepias tuberosa* (Butterfly Milkweed), *Bidens frondosa* (Beggars Ticks), *Eupatorium purpureum* (Purple Joe Pye Weed), *Rutbeckia hirta* (Black Eyed Susan), *Aster pilosus* (Heath Aster), *Solidago juncea* (Early Goldenrod)



LEGEND

- LIMIT OF WORK
- PROPERTY LINE
- MATCH LINE
- ENLARGEMENT PLAN
- 25' NO DISTURB ZONE
- 100' BUFFER ZONE
- 200' BUFFER
- 400' BUFFER
- RIVERFRONT AREA
- FEMA 100 YEAR FLOOD PLAN
- CALCULATED 100 YEAR FLOOD PLAN
- FLOOD PLAIN 25' BUFFER
- FLOOD PLAIN 100' BUFFER
- WsPA PRIMARY ZONE
- WsPA SECONDARY ZONE
- DISPOSAL SITE BOUNDARY
- 100' VERNAL POOL RESOURCE AREA
- 200' VERNAL POOL BUFFER ZONE
- TREELINE
- SEED - GENERAL LAWN
- SEED - RESTORATION SEED MIX approx. 38,250sf
- WETLAND REPLICATION AREA approx. 2,300sf
- PROPOSED TREES
- PROPOSED SHRUBS

WETLAND REPLICATION AREA

SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING
AI	8	<i>Alnus incana</i>	Speckled Alder	18" min.	10'-0" O.C.
SA	8	<i>Spiraea alba</i>	White Meadowsweet	18" min.	10'-0" O.C.
VC	8	<i>Vaccinium corymbosum</i>	Highbush Blueberry	18" min.	10'-0" O.C.

HERBACEOUS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING
CS	166	<i>Carex stricta</i>	Tussock Sedge	Individual Plugs	2'-0" O.C.
OS	166	<i>Oncoclea sensibilis</i>	Sensitive Fern	Individual Plugs	2'-0" O.C.
TL	166	<i>Typha latifolia</i>	Broad-Leaved Cattail	Individual Plugs	2'-0" O.C.
VH	166	<i>Verbena hastata</i>	Blue Vervain	Individual Plugs	2'-0" O.C.

RESTORATION SEED MIX
 PREFERRED MIX: 'NEW ENGLAND WET MIX (WETLAND SEED MIX)' OR EQUIVALENT
 Rate: 1lb per 2,500sf
Fox Sedge (Carex vulpinoidea), *Lund Sedge (Carex lurida)*, *Blunt Broom Sedge (Carex scoparia)*, *Blue Vervain (Verbena hastata)*, *Fowl Bluegrass (Poa palustris)*, *Hop Sedge (Carex lupulina)*, *Green Bulrush (Scirpus atrovirens)*, *Creeping Spike Rush (Eleocharis palustris)*, *Fringed Sedge (Carex crinita)*, *Soft Rush (Juncus effusus)*, *Spotted Joe Pye Weed (Eupatorium maculatum)*, *Rattlesnake Grass (Glyceria canadensis)*, *Swamp aster (Aster puniceus)*, *Blueflag (Iris versicolor)*, *Swamp Milkweed (Asclepias incarnata)*, *Square stemmed Monkey Flower (Mimulus ringens)*

Project:
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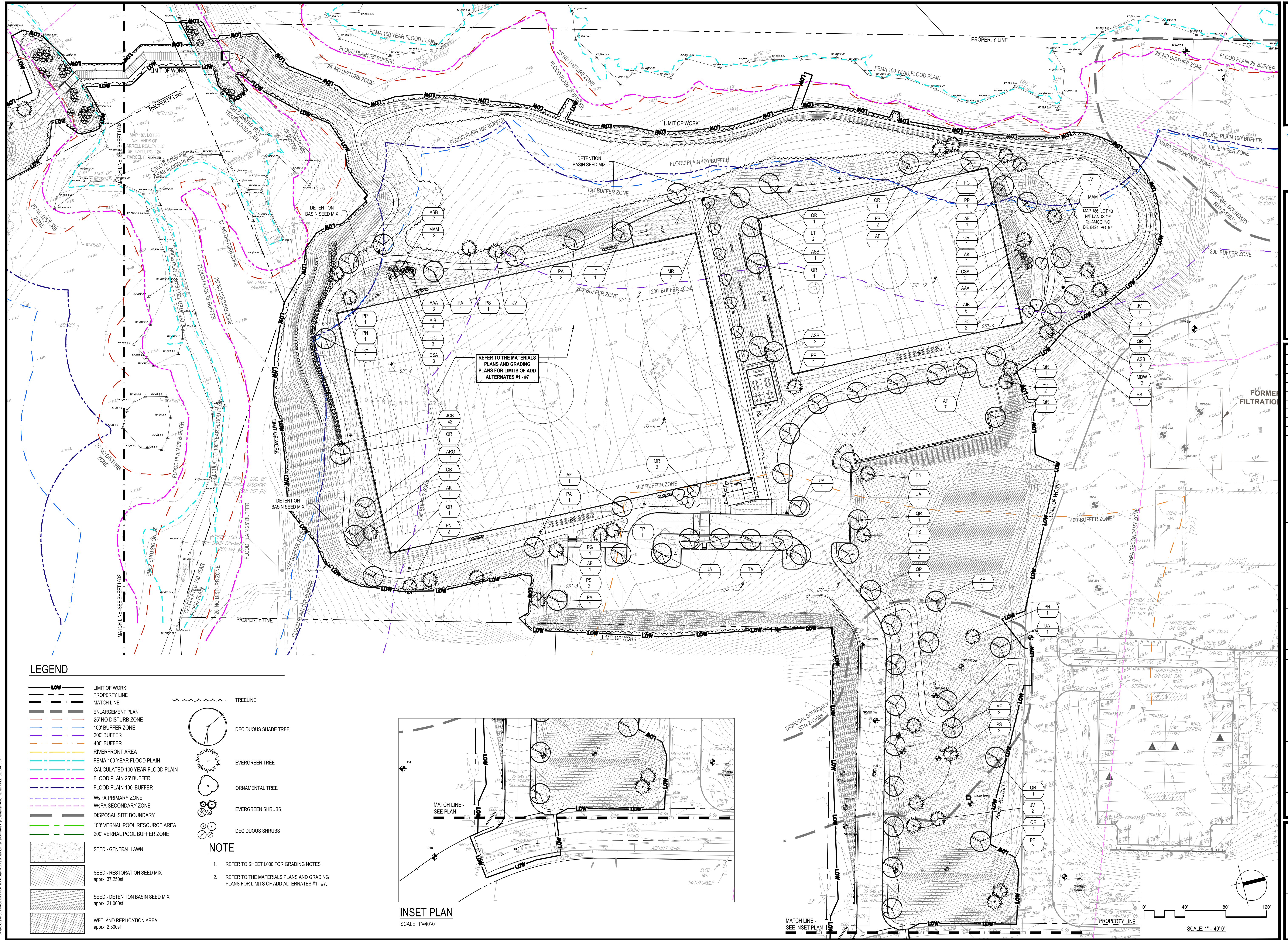
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OVERALL PLANTING PLAN
 Sheet Number:
L600

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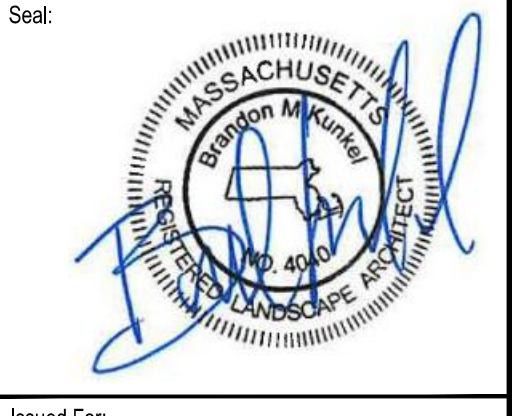
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 W&S File No.:

Drawing Title:
**PLANTING PLAN -
 INDUSTRIAL DRIVE**
 Sheet Number:
L601

LEGEND

	LIMIT OF WORK		TREELINE
	PROPERTY LINE		DECIDUOUS SHADE TREE
	MATCH LINE		EVERGREEN TREE
	ENLARGEMENT PLAN		ORNAMENTAL TREE
	25' NO DISTURB ZONE		EVERGREEN SHRUBS
	100' BUFFER ZONE		DECIDUOUS SHRUBS
	200' BUFFER		
	400' BUFFER		
	RIVERFRONT AREA		
	FEMA 100 YEAR FLOOD PLAIN		
	CALCULATED 100 YEAR FLOOD PLAIN		
	FLOOD PLAIN 25' BUFFER		
	FLOOD PLAIN 100' BUFFER		
	WSPA PRIMARY ZONE		
	WSPA SECONDARY ZONE		
	DISPOSAL SITE BOUNDARY		
	100' VERNAL POOL RESOURCE AREA		
	200' VERNAL POOL BUFFER ZONE		

SEED - GENERAL LAWN

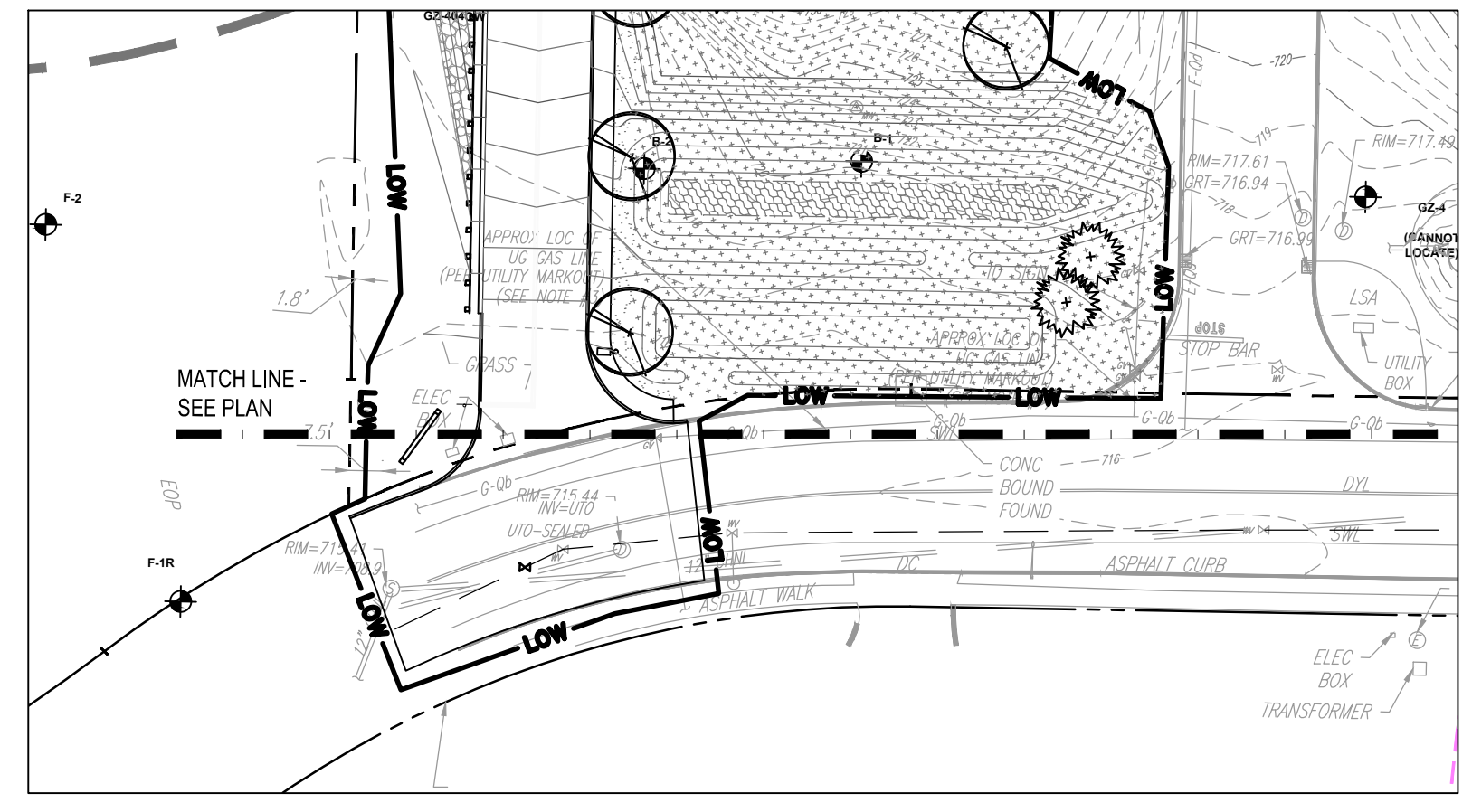
SEED - RESTORATION SEED MIX
 apprx. 37,250sf

SEED - DETENTION BASIN SEED MIX
 apprx. 21,000sf

WETLAND REPLICATION AREA
 apprx. 2,300sf

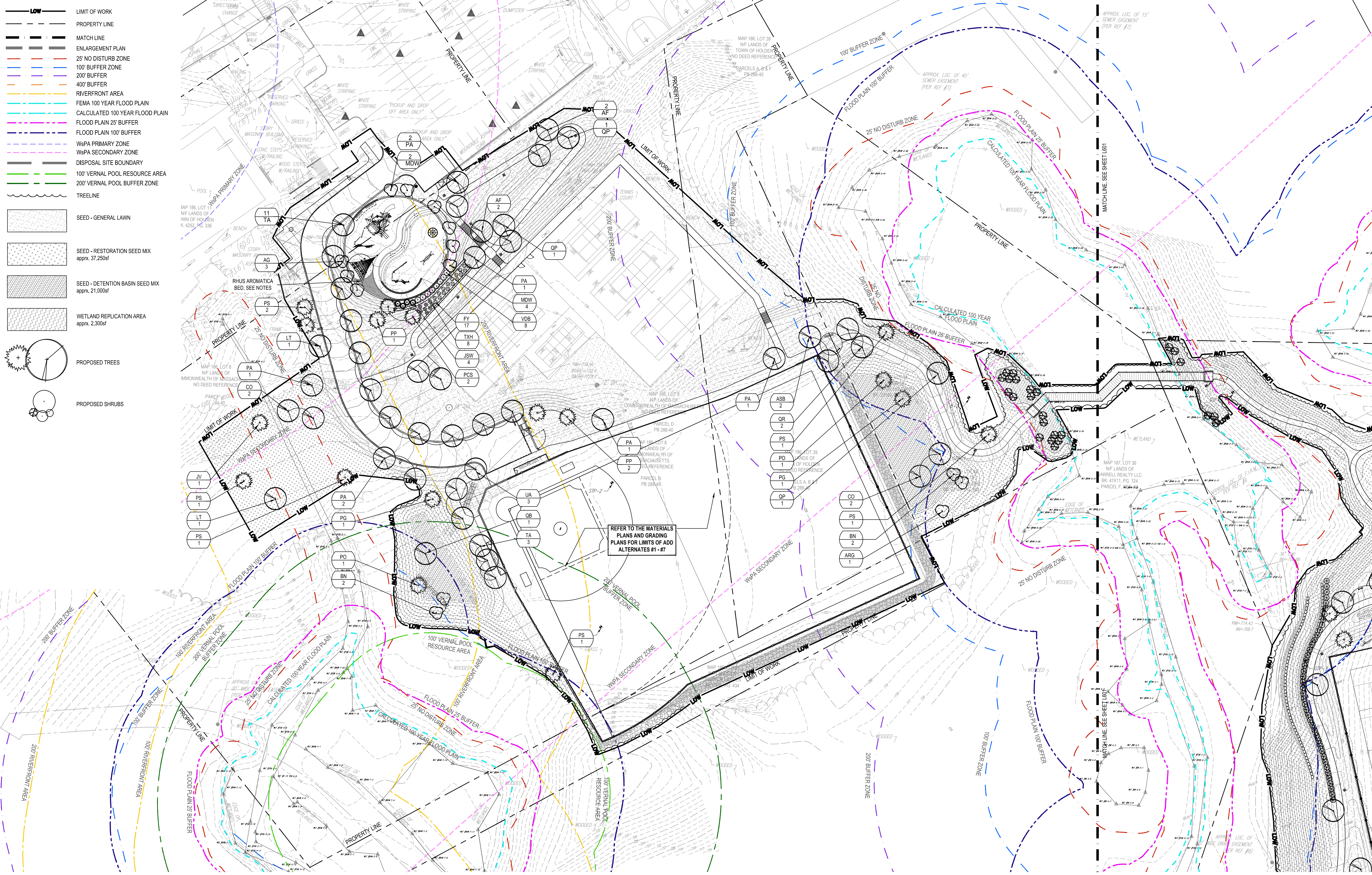
NOTE

- REFER TO SHEET L600 FOR GRADING NOTES.
- REFER TO THE MATERIALS PLANS AND GRADING PLANS FOR LIMITS OF ADD ALTERNATES #1 - #7.



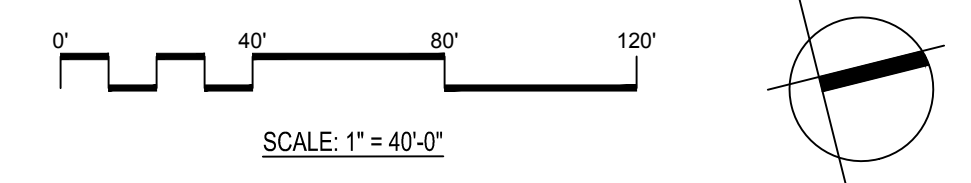
LEGEND

- LIMIT OF WORK
- PROPERTY LINE
- MATCH LINE
- ENLARGEMENT PLAN
- 25' NO DISTURB ZONE
- 100' BUFFER ZONE
- 200' BUFFER
- 400' BUFFER
- RIVERFRONT AREA
- FEMA 100 YEAR FLOOD PLAIN
- CALCULATED 100 YEAR FLOOD PLAIN
- FLOOD PLAIN 25' BUFFER
- FLOOD PLAIN 100' BUFFER
- WSPA PRIMARY ZONE
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- TREELINE
- SEED - GENERAL LAWN
- SEED - RESTORATION SEED MIX
apprx. 37,250sf
- SEED - DETENTION BASIN SEED MIX
apprx. 21,000sf
- WETLAND REPLICATION AREA
apprx. 2,300sf
- PROPOSED TREES
- PROPOSED SHRUBS



NOTE

1. REFER TO SHEET L000 FOR PLANTING NOTES
2. REFER TO THE MATERIALS PLANS AND GRADING PLANS FOR LIMITS OF ADD ALTERNATES #1-#7.



Project:
**INDUSTRIAL DRIVE ATHLETIC
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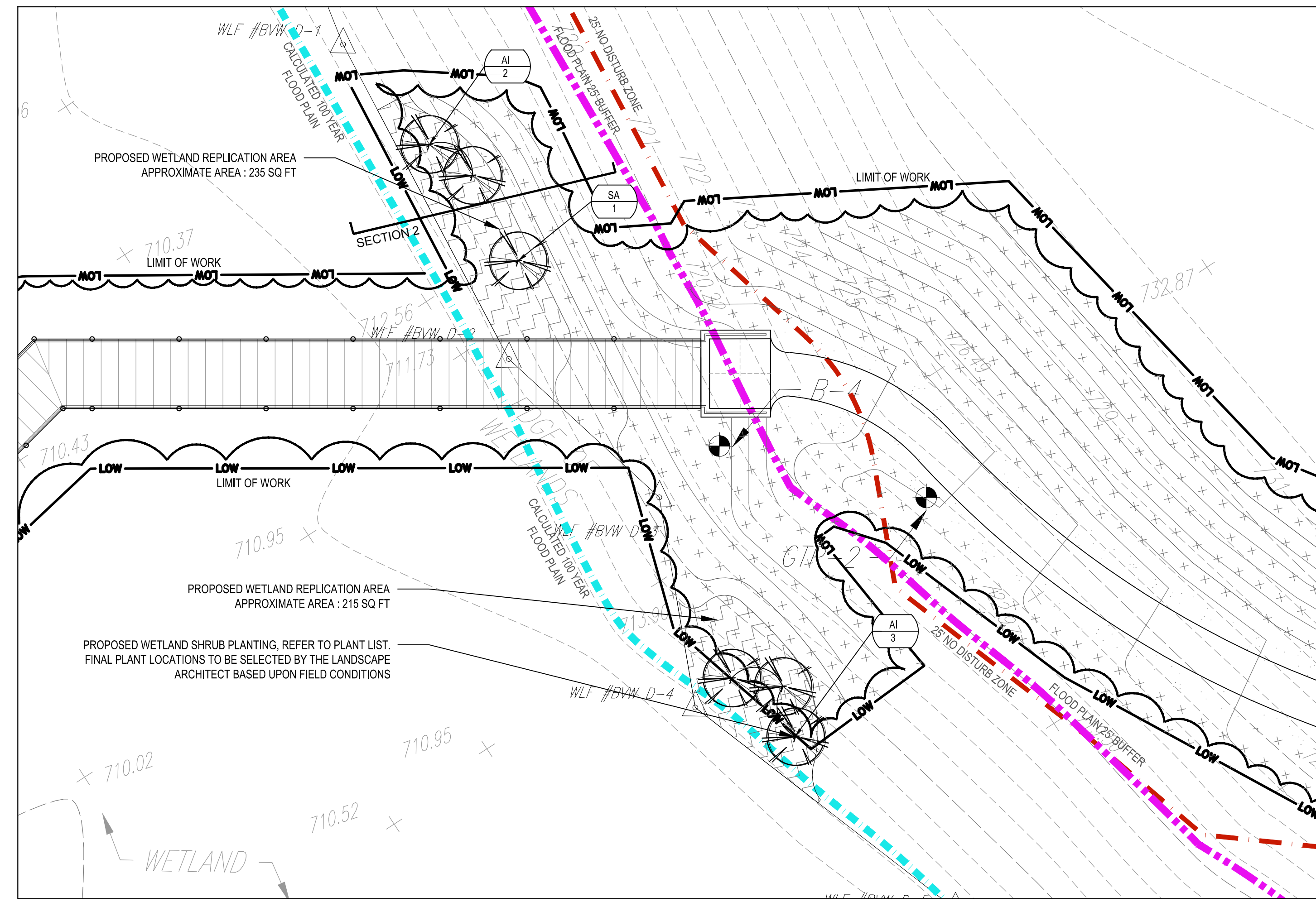
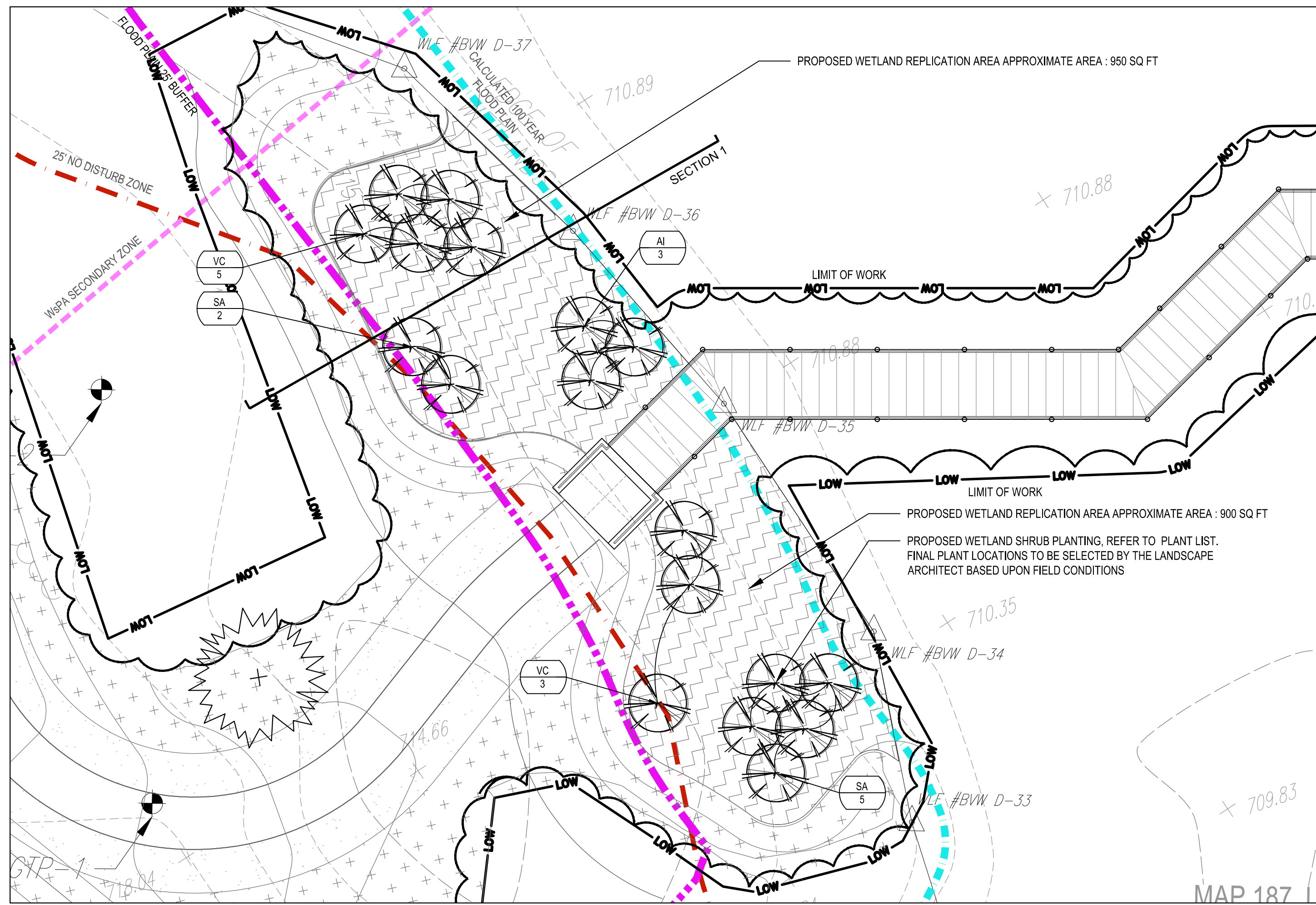
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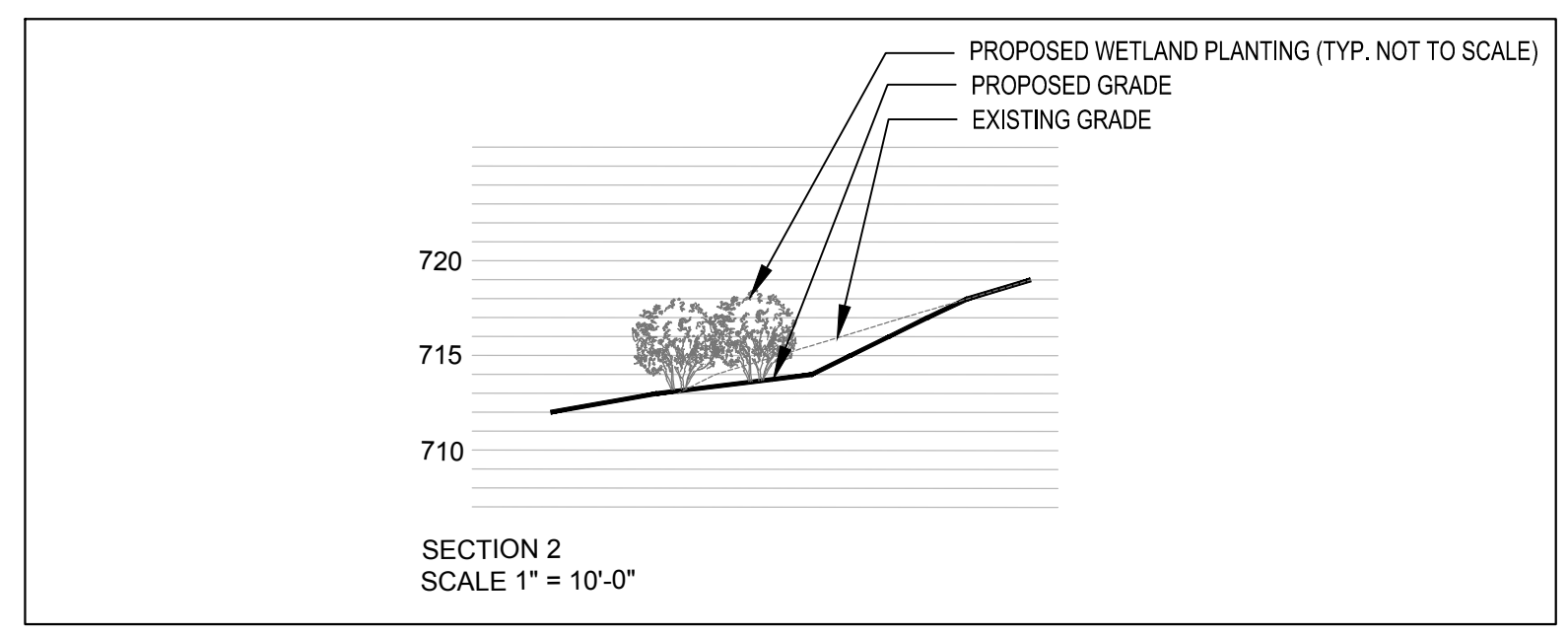
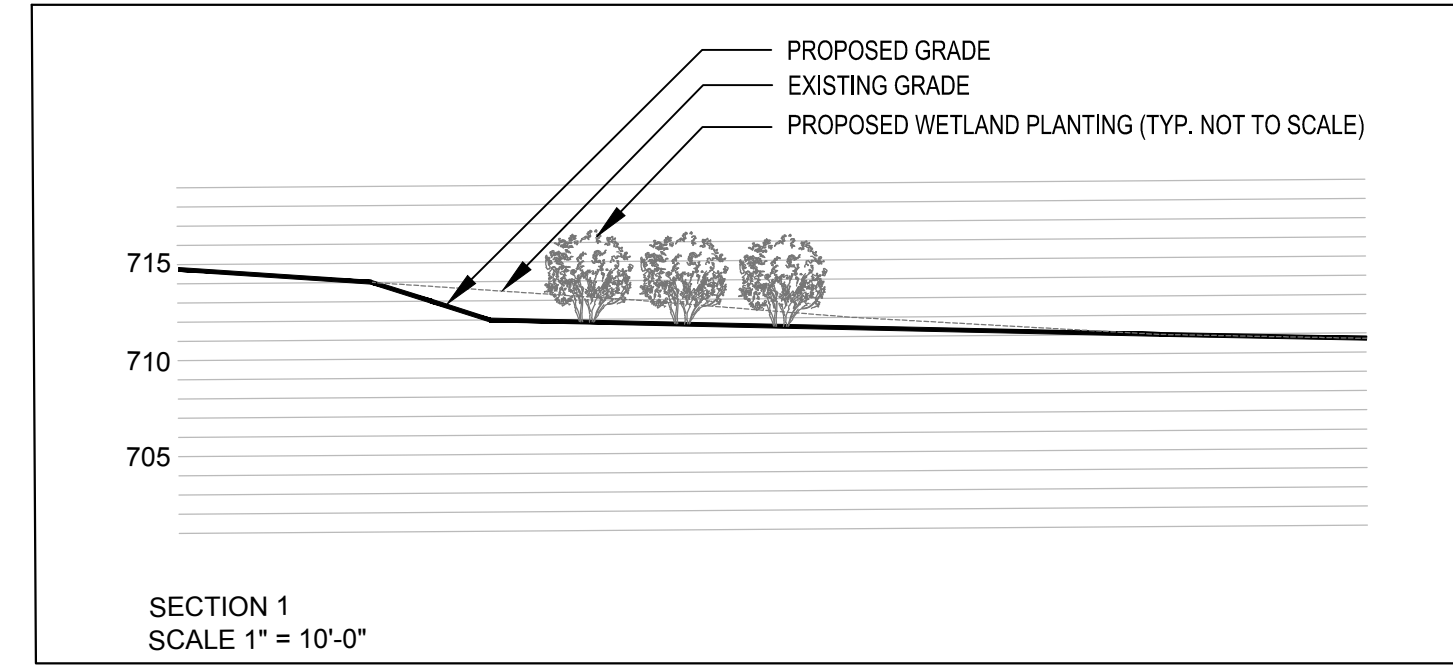
**PLANTING
 PLAN - DAWSON
 RECREATION**

Sheet Number:
L602



1 ENLARGEMENT 1
SCALE: 1" = 10'-0"

2 ENLARGEMENT 2
SCALE: 1" = 10'-0"



LEGEND

- LIMIT OF WORK
- PROPERTY LINE
- MATCH LINE
- TREE LINE
- 25' NO DISTURB ZONE
- 100' BUFFER ZONE
- 200' BUFFER
- 400' BUFFER
- RIVERFRONT AREA
- FEMA 100 YEAR FLOOD PLAIN
- CALCULATED 100 YEAR FLOOD PLAIN
- FLOOD PLAIN 25' BUFFER
- FLOOD PLAIN 100' BUFFER
- WSPA PRIMARY ZONE
- WSPA SECONDARY ZONE
- DISPOSAL SITE BOUNDARY
- 100' VERNAL POOL RESOURCE AREA
- 200' VERNAL POOL BUFFER ZONE
- SEED - GENERAL LAWN
- SEED - RESTORATION SEED MIX
approx. 58,250sf
- WETLAND REPLICATION AREA
approx. 2,300sf
- PROPOSED SHRUBS

WETLAND REPLICATION AREA					
SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING
AI	8	<i>Alnus incana</i>	Speckled Alder	18" min.	10'-0" O.C.
SA	8	<i>Spiraea alba</i>	White Meadowsweet	18" min.	10'-0" O.C.
VC	8	<i>Vaccinium corymbosum</i>	Highbush Blueberry	18" min.	10'-0" O.C.
HERBACEOUS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING
CS	166	<i>Carex stricta</i>	Tussock Sedge	Individual Plugs	2'-0" O.C.
OS	166	<i>Onoclea sensibilis</i>	Sensitive Fern	Individual Plugs	2'-0" O.C.
TL	166	<i>Typha latifolia</i>	Broad-Leaved Cattail	Individual Plugs	2'-0" O.C.
VH	166	<i>Verbena hastata</i>	Blue Verain	Individual Plugs	2'-0" O.C.

PREFERRED MIX: "NEW ENGLAND CONSERVATION / WILDLIFE MIX" OR EQUIVALENT
 Rate: 1lb per 1,250sf
Elymus canadensis (Canada Wild Rye), *Schizachyrium scoparium* (Little Bluestem), *Andropogon gerardii* (Big Bluestem),
Elymus canadensis (Canada Wild Rye), *Schizachyrium scoparium* (Little Bluestem), *Andropogon gerardii* (Big Bluestem),
Festuca rubra (Red Fescue), *Sorghastrum nutans* (Indian Grass), *Panicum virgatum* (Switch Grass),
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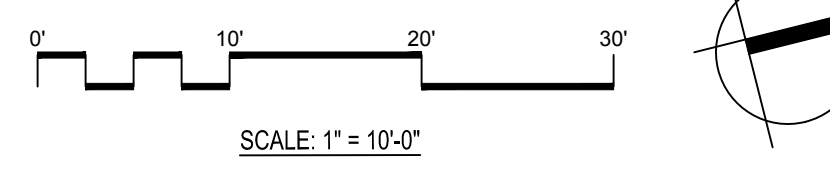
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**WETLAND
 REPLICATION
 AREAS**

Sheet Number:
L603



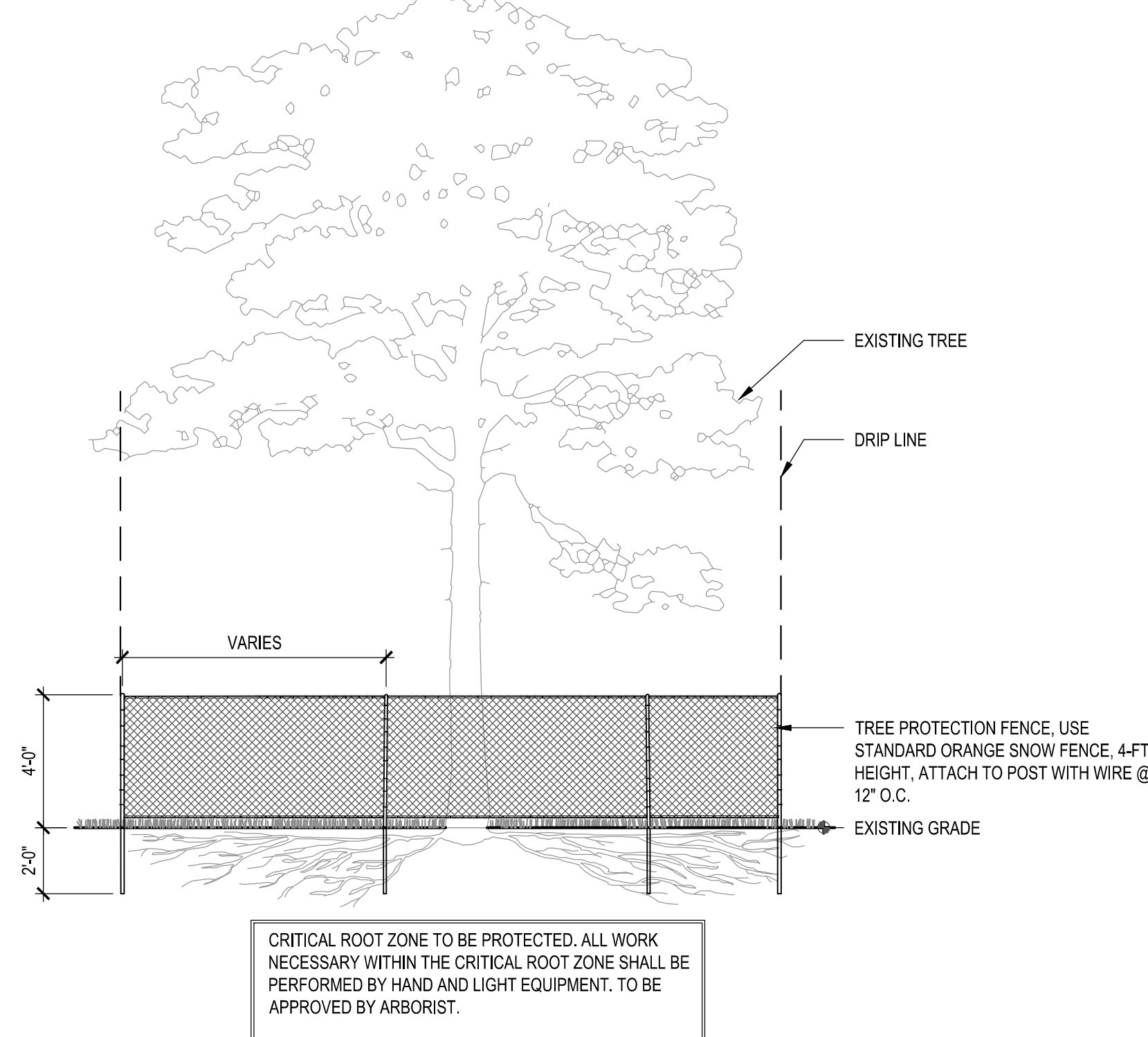
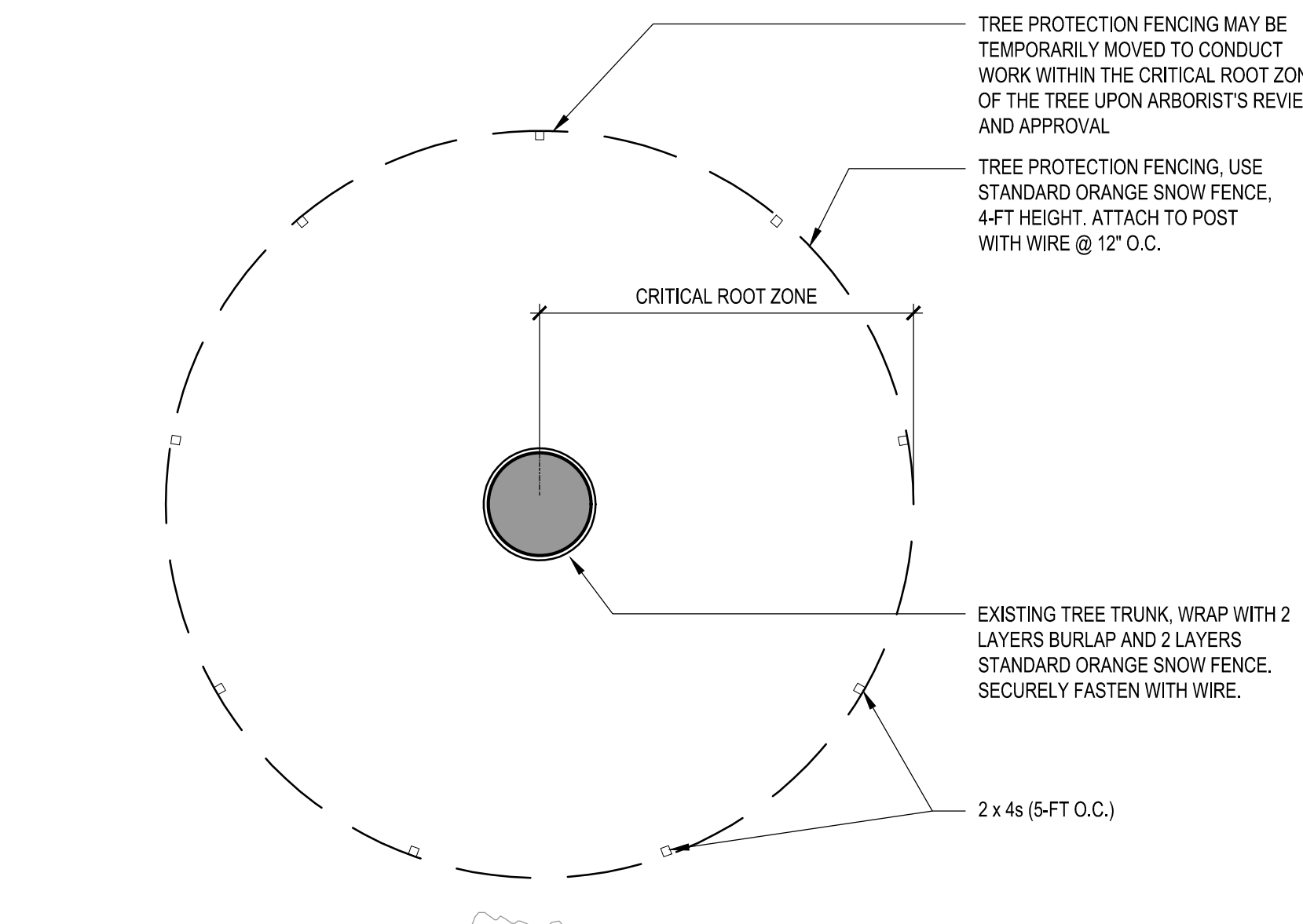
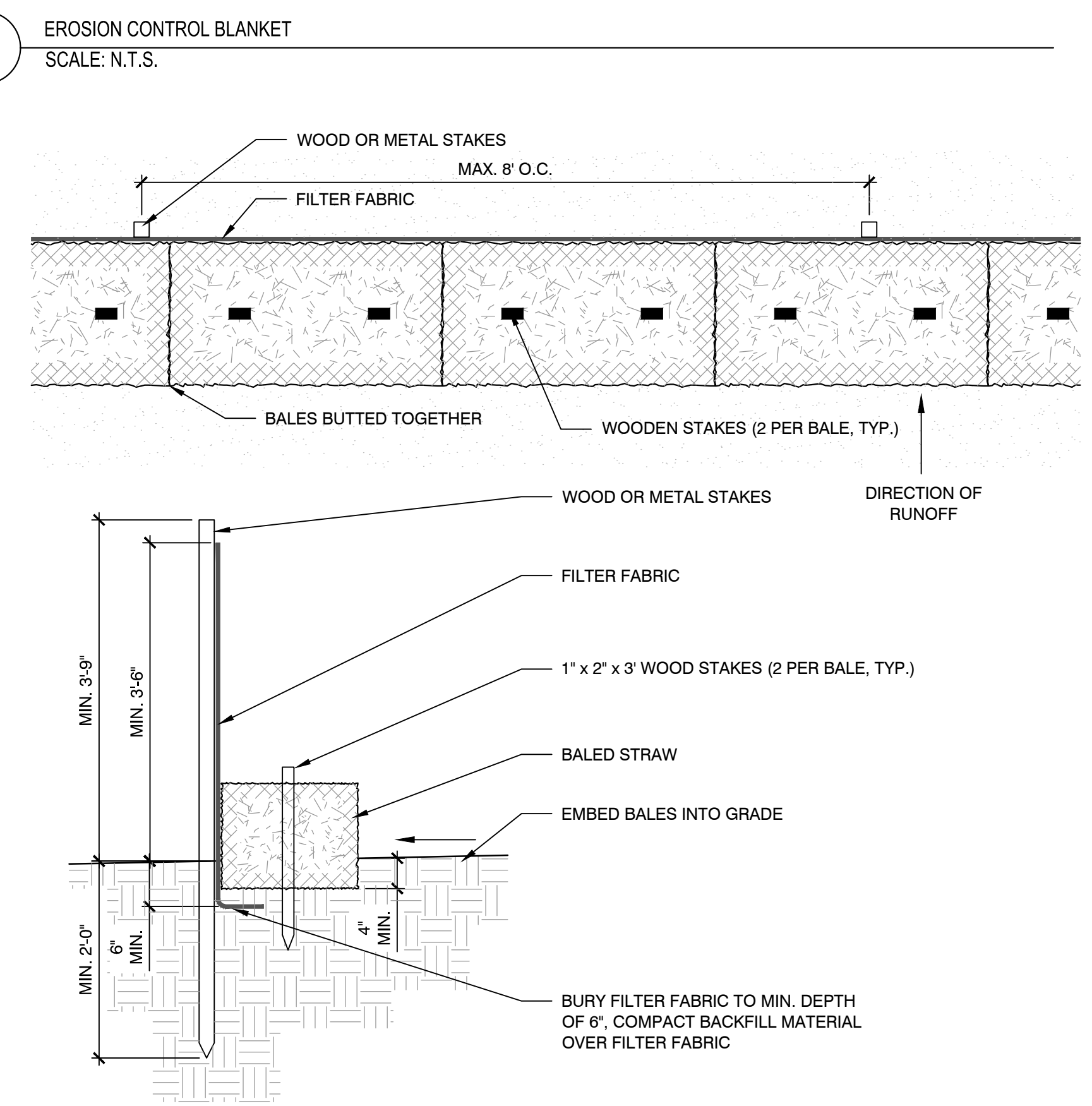
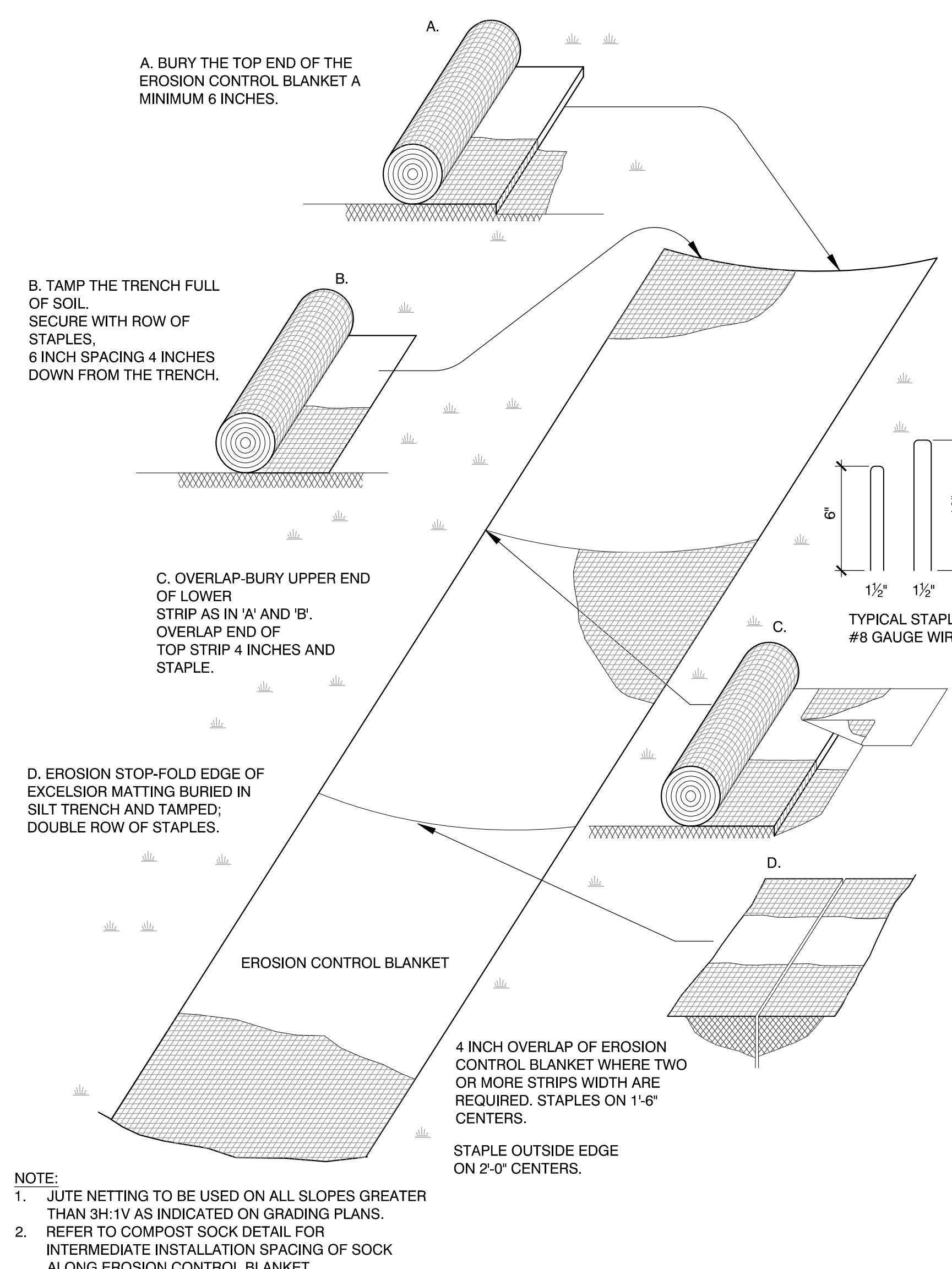
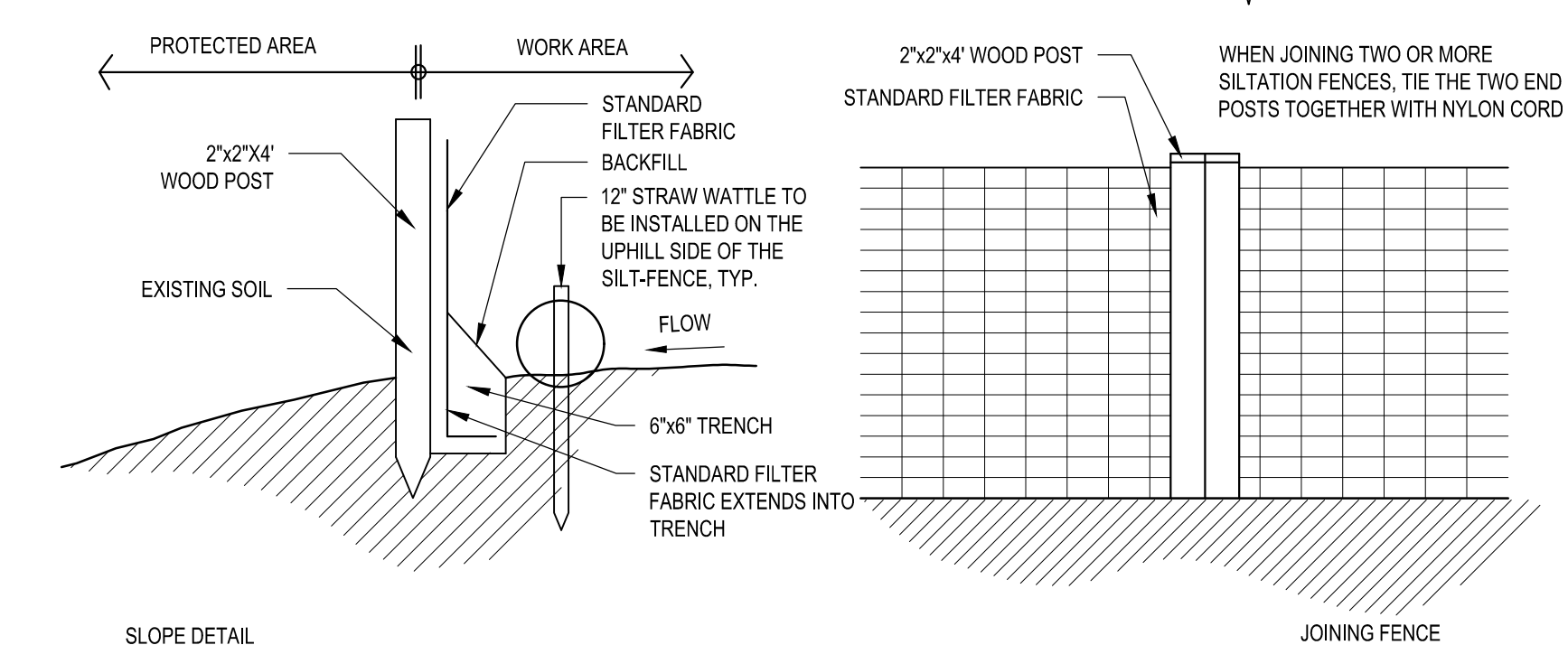
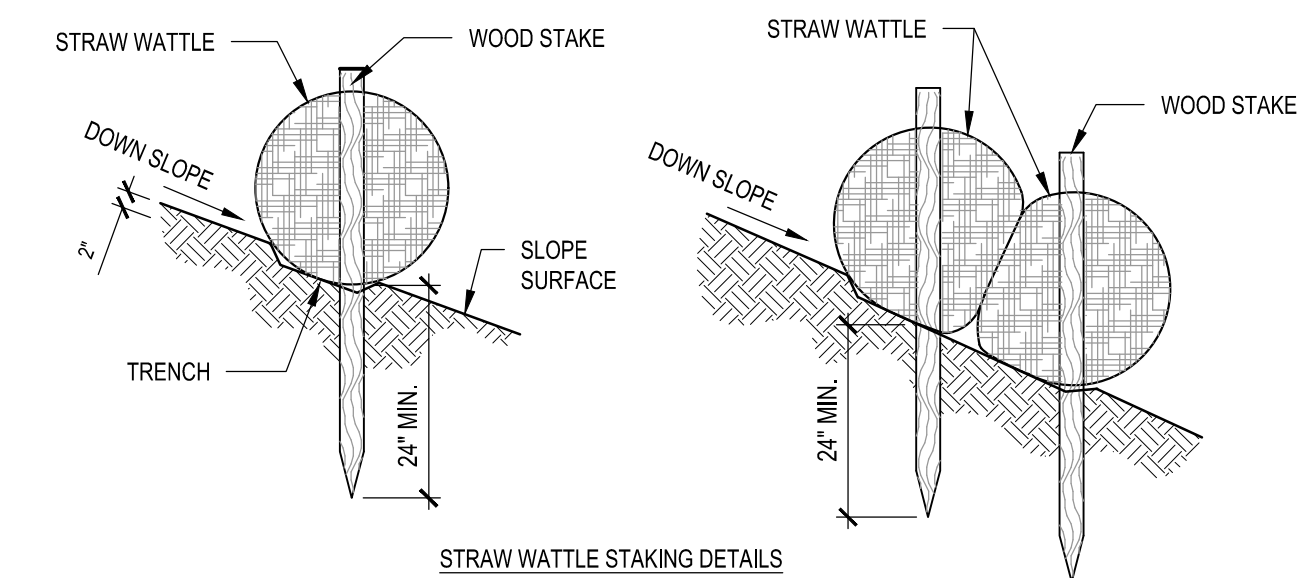
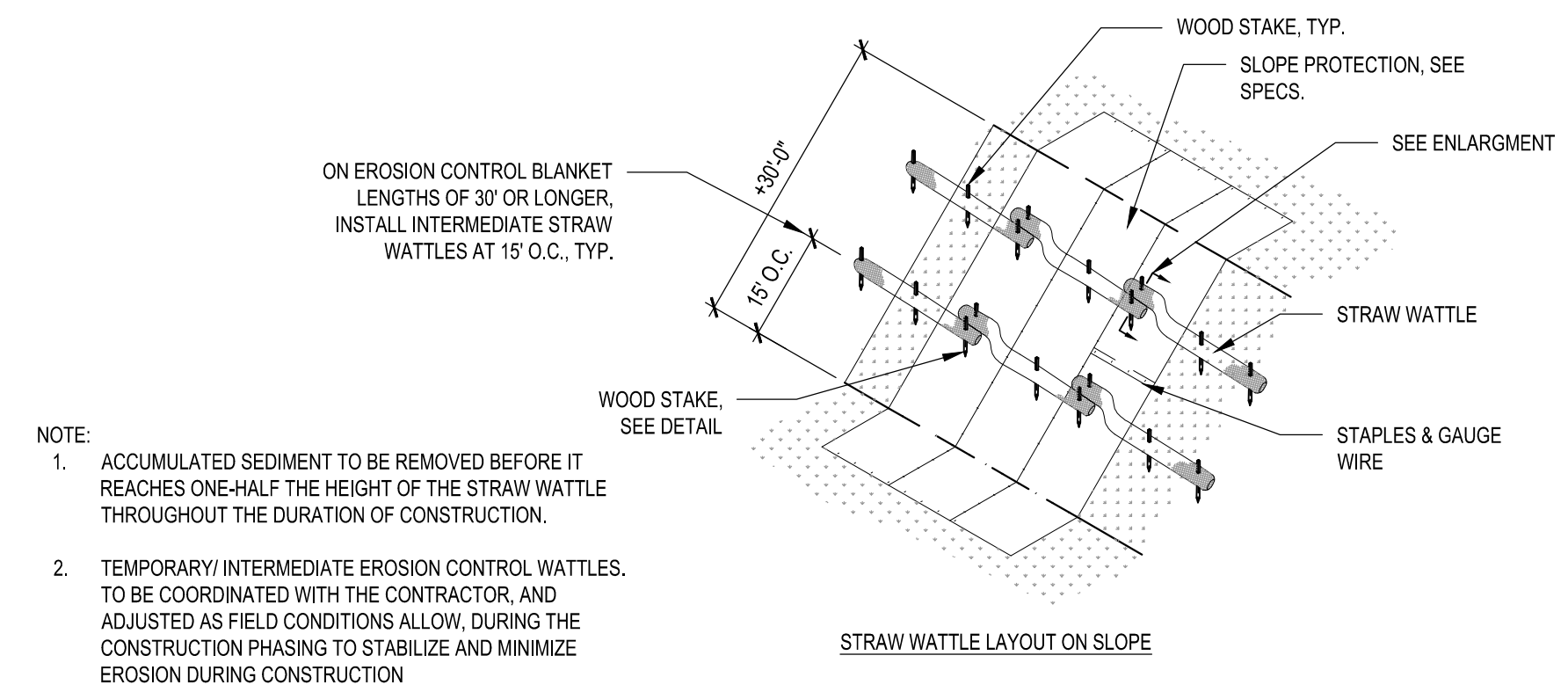
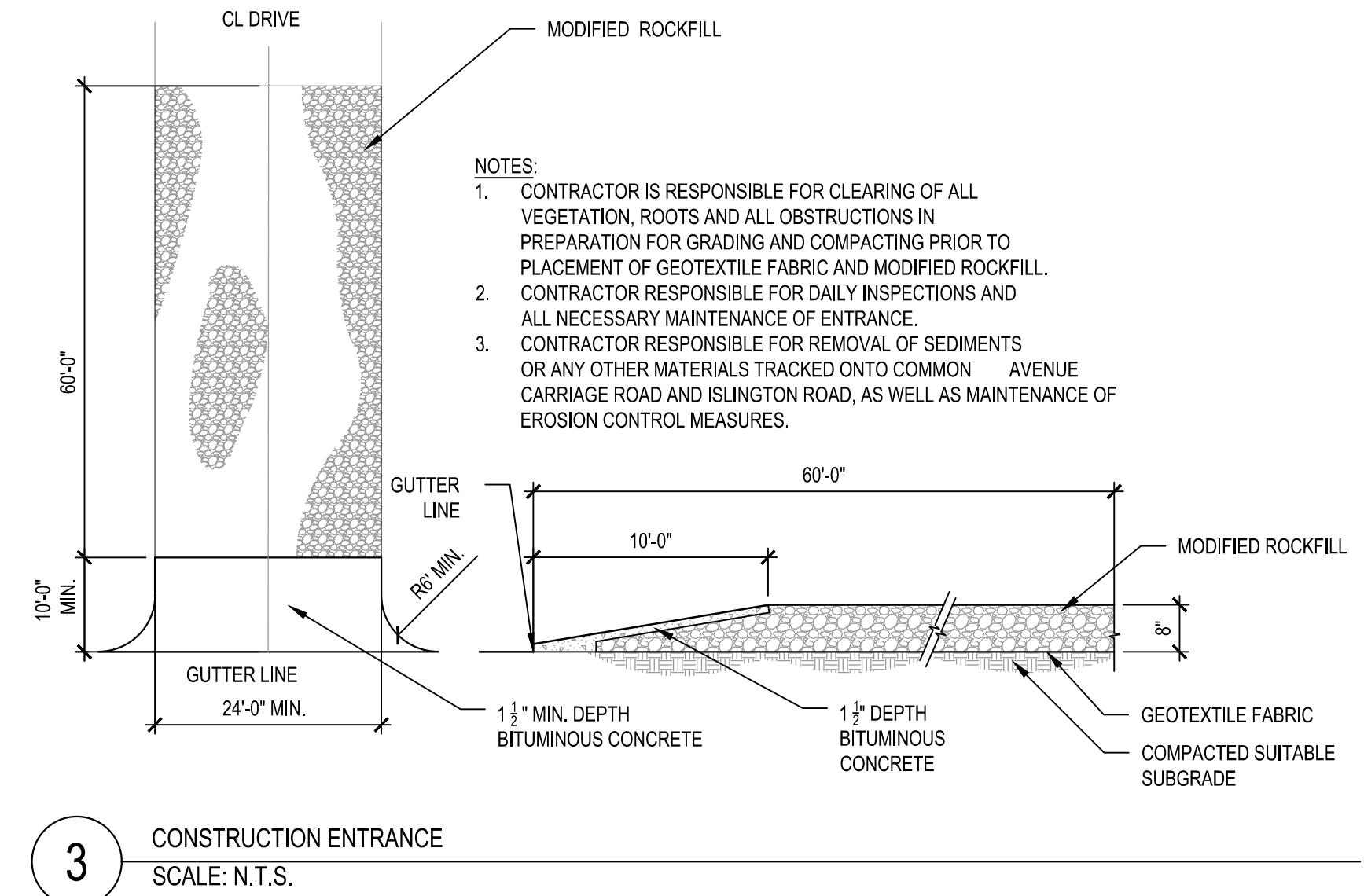
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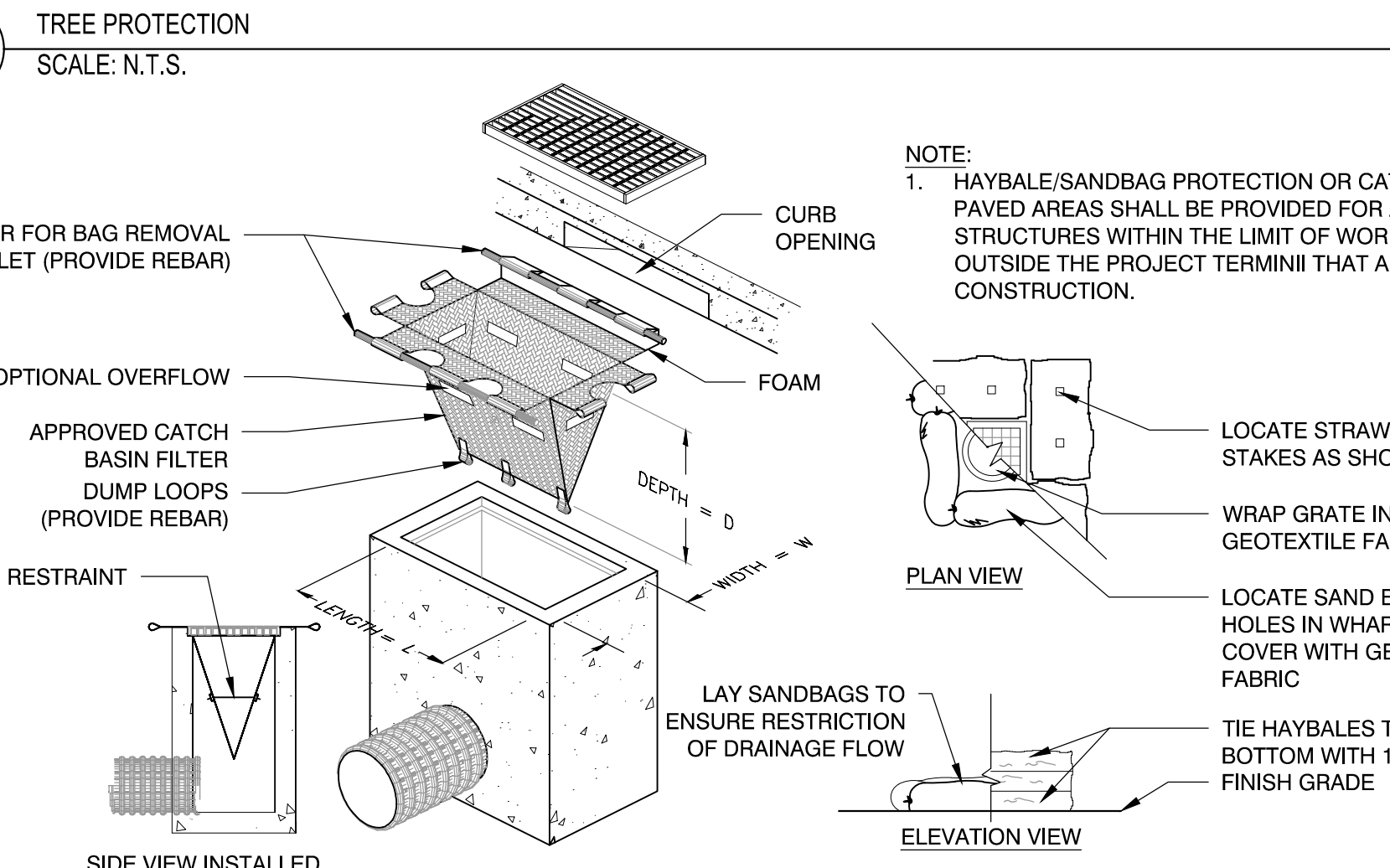
**LANDSCAPE
DETAILS**

L700



CRITICAL ROOT ZONE TO BE PROTECTED. ALL WORK NECESSARY WITHIN THE CRITICAL ROOT ZONE SHALL BE PERFORMED BY HAND AND LIGHT EQUIPMENT. TO BE APPROVED BY ARBORIST.

NOTES:
1. TREE PROTECTION FENCING SHALL BE PLACED A MINIMUM OF 10-FT FROM BASE OF TREE PLUS AN ADDITIONAL 1-FT FOR EACH ADDITIONAL 1" CALIPER AT DBH FOR TREES GREATER THAN 10" DBH (DIA. AT BREST HT.)
2. ALL WORK PERFORMED WITHIN DRIP LINE / CRITICAL ROOT ZONE OF TREE INCLUDING EXCAVATIONS SHALL BE DONE BY HAND AND LIGHT EQUIPMENT (VACUUM AND AIRSPADE); ARBORIST TO APPROVE EQUIPMENT. NO EQUIPMENT OR MATERIALS SHALL BE STORED OR STOCKPILED WITHIN DRIPLINE.
3. ROOTS EXPOSED DURING EXCAVATION SHALL BE NEATLY CUT AND COVERED WITH SOIL IMMEDIATELY.
4. FOR TREES THAT OCCUR IN GROUPS PROVIDE TREE PROTECTION FENCING AROUND ENTIRE AREA. SEE PLAN FOR LOCATIONS.
5. MAINTAIN FENCE PROTECTION IN SOUND CONDITION FOR DURATION OF CONSTRUCTION.
6. A CERTIFIED ARBORIST SHALL DELINEATE LIMIT OF TREE PROTECTION FENCING AS THEY RELATE TO THE LIMITS OF THE CRITICAL ROOT ZONE.
7. EXPOSED ROOTS WITH THE CRITICAL ROOT ZONE MUST BE APPROVED BY THE ARBORIST PRIOR TO CUTTING.



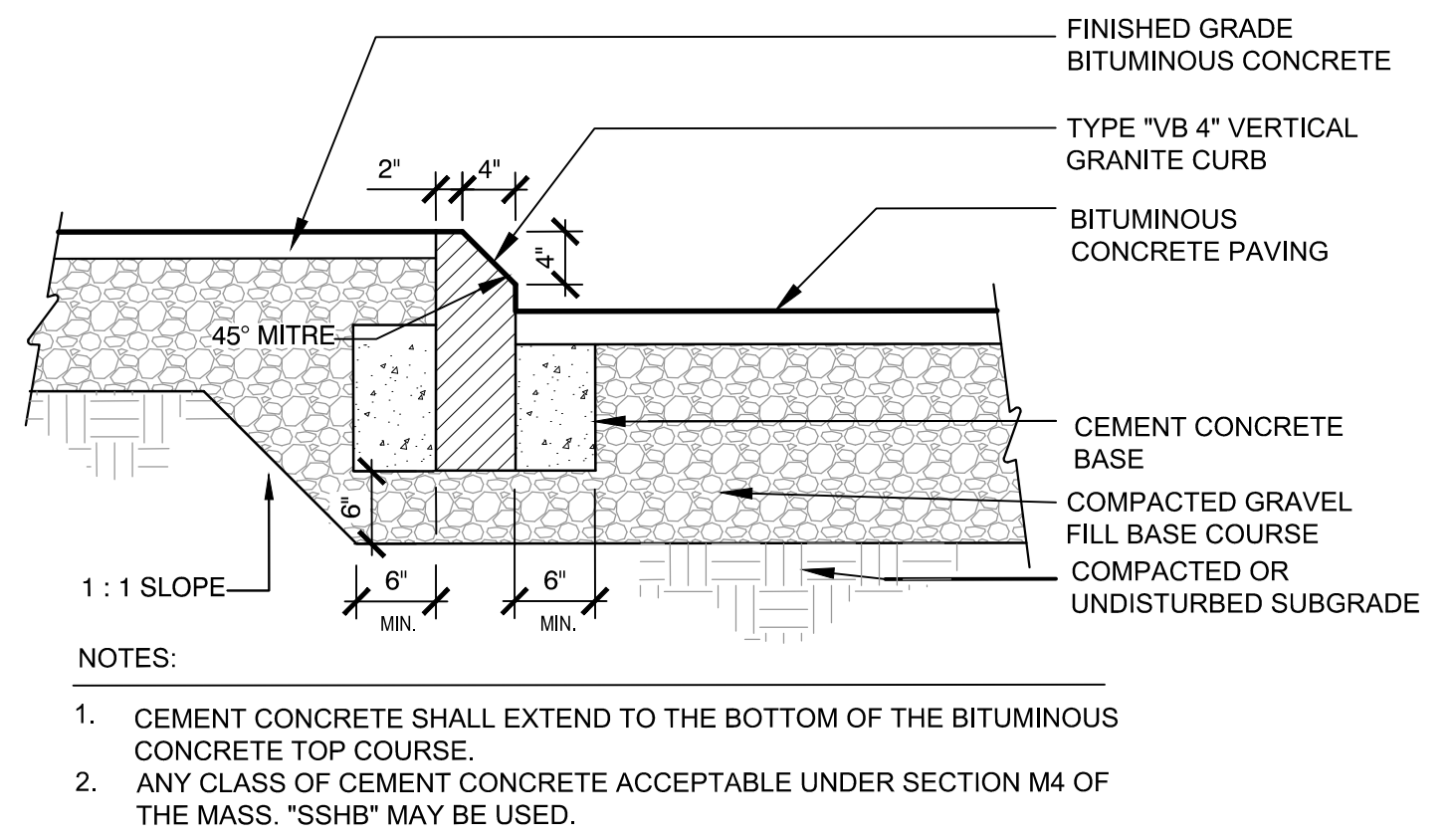
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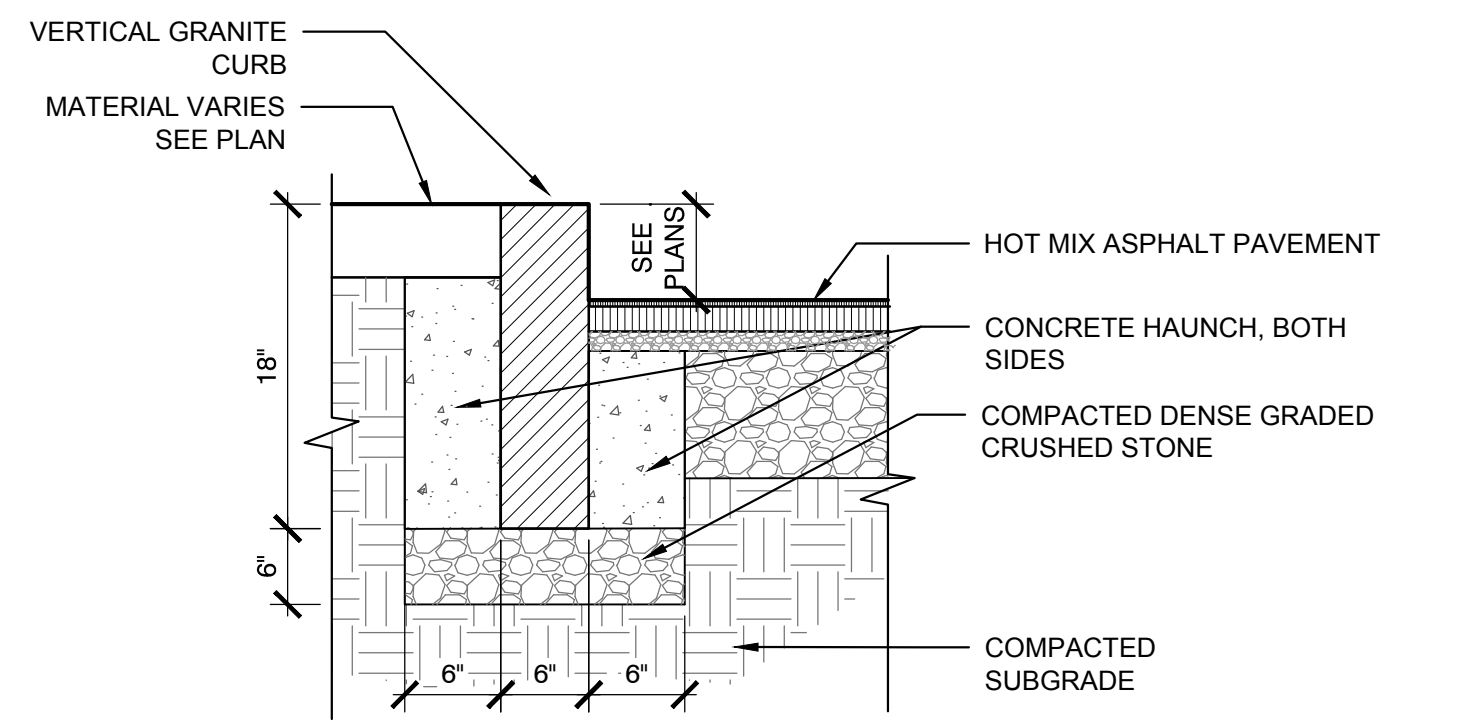
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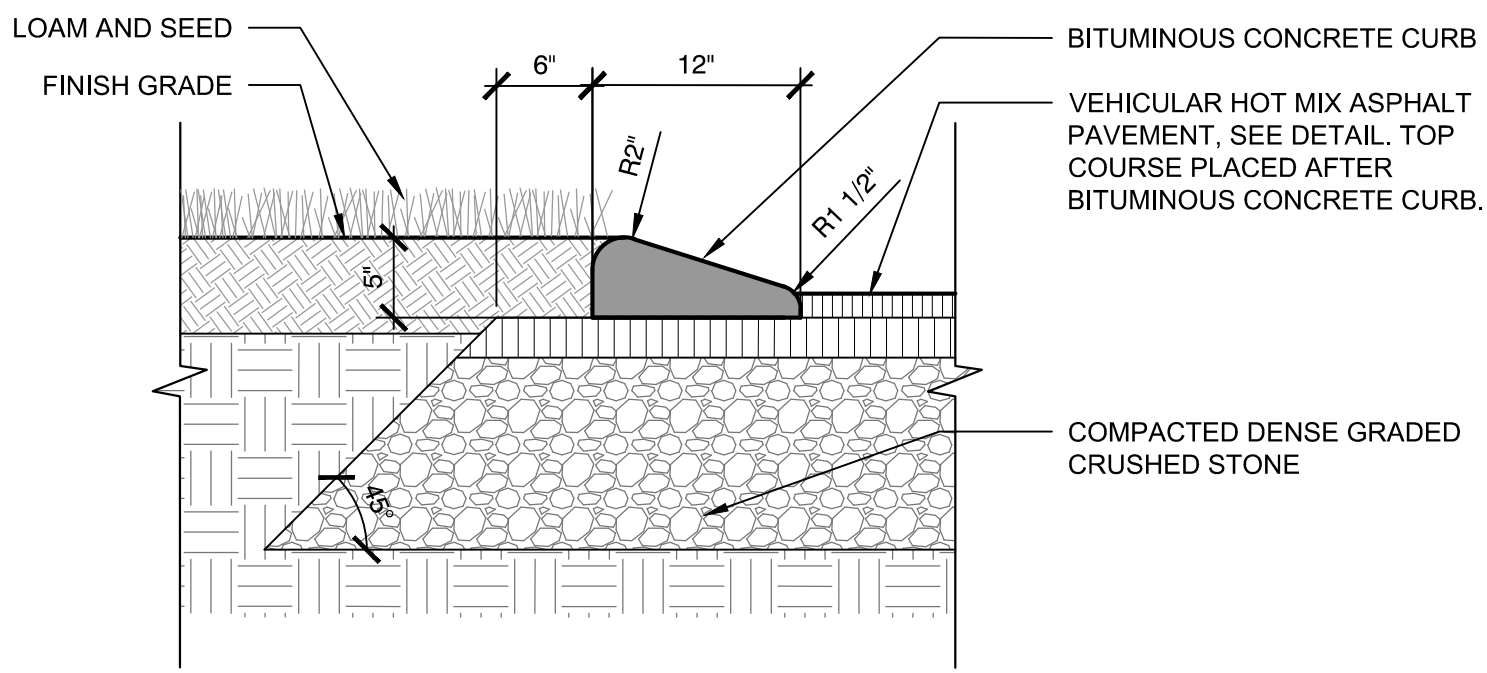
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W&S Project No.:	ENG22 - 0852
W&S File No.:	



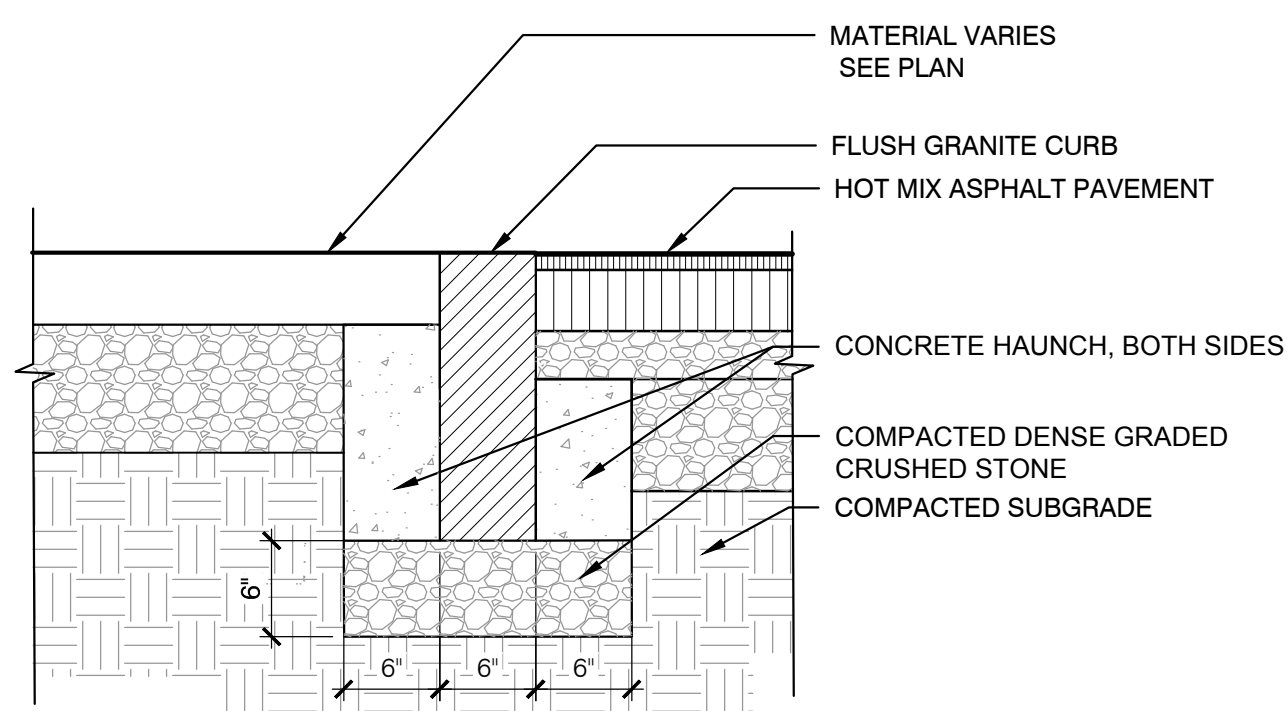
4 VERTICAL GRANITE CURB - MOUNTABLE
SCALE: N.T.S.



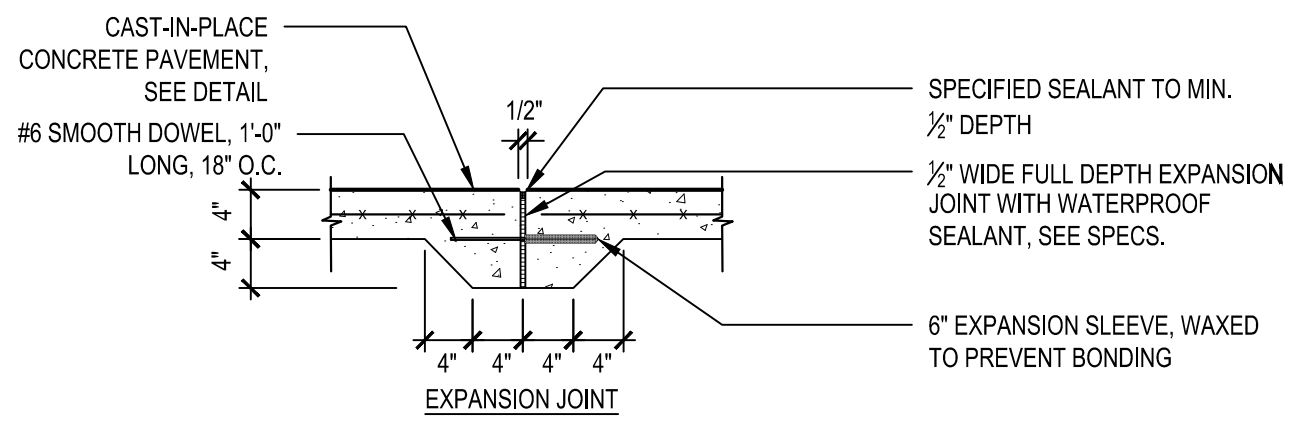
8 VERTICAL GRANITE CURB (VGC)
SCALE: N.T.S.



3 BITUMINOUS CONCRETE CURB (BCC)
SCALE: N.T.S.

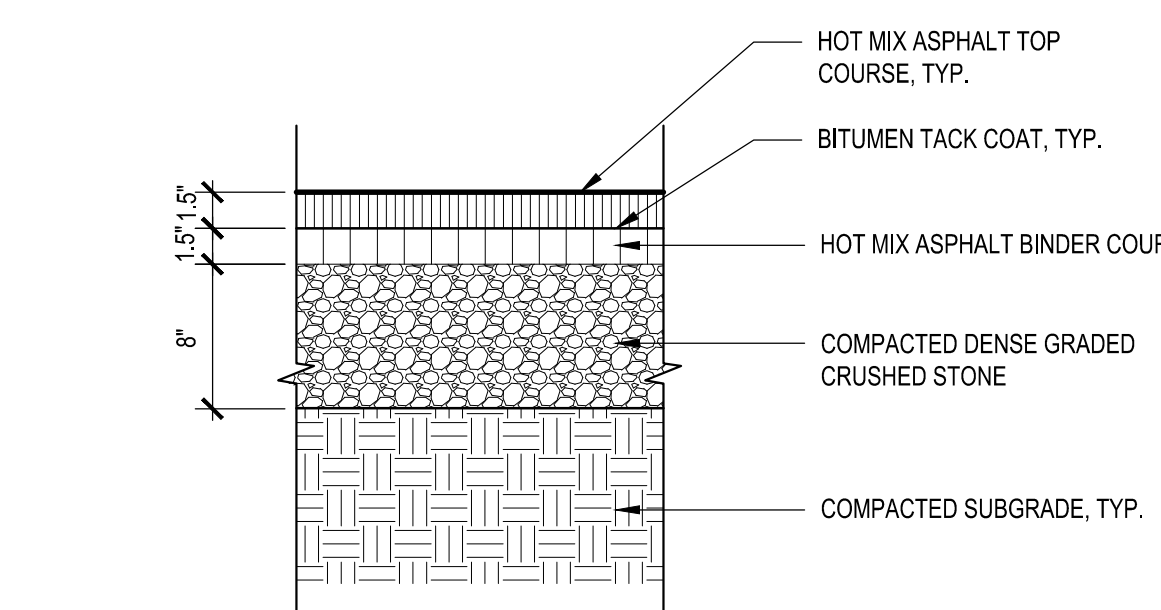


7 FLUSH GRANITE CURB
SCALE: N.T.S.



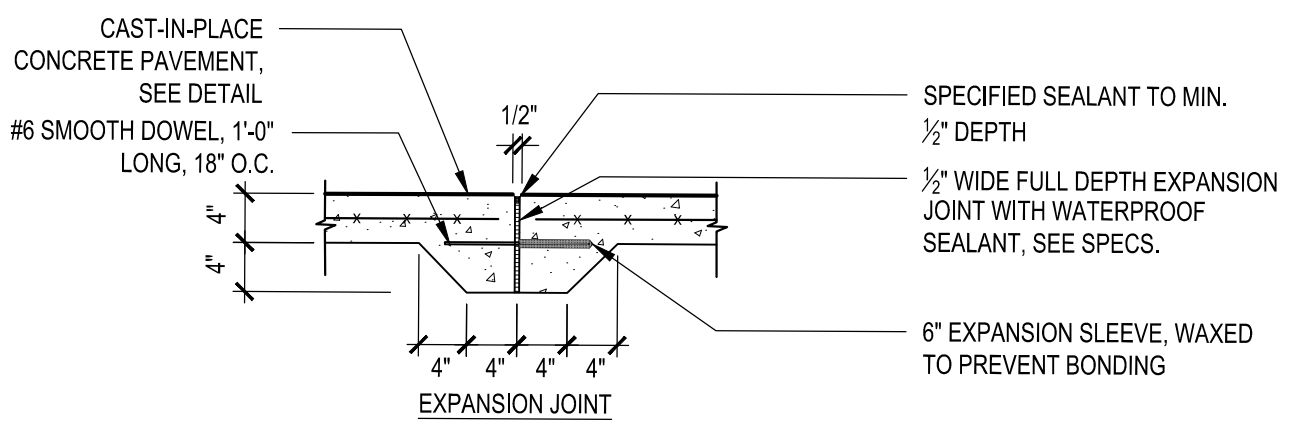
- EXPANSION JOINT INSTALLATION NOTES:
- DOWEL IS TYPICAL AT ALL EXPANSION JOINTS (25' O.C.) WITHIN CONCRETE PAVING AND BETWEEN NEW CONCRETE PAVING AND EXISTING CONCRETE PAVING TO REMAIN.
 - DELETE EXPANSION SLEEVE AND DOWEL WHERE JOINT ABUTS WALL, CURBS, OR OTHER VERTICAL SURFACES, UNLESS OTHERWISE NOTED.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

2 PEDESTRIAN CONCRETE PAVEMENT
SCALE: N.T.S.



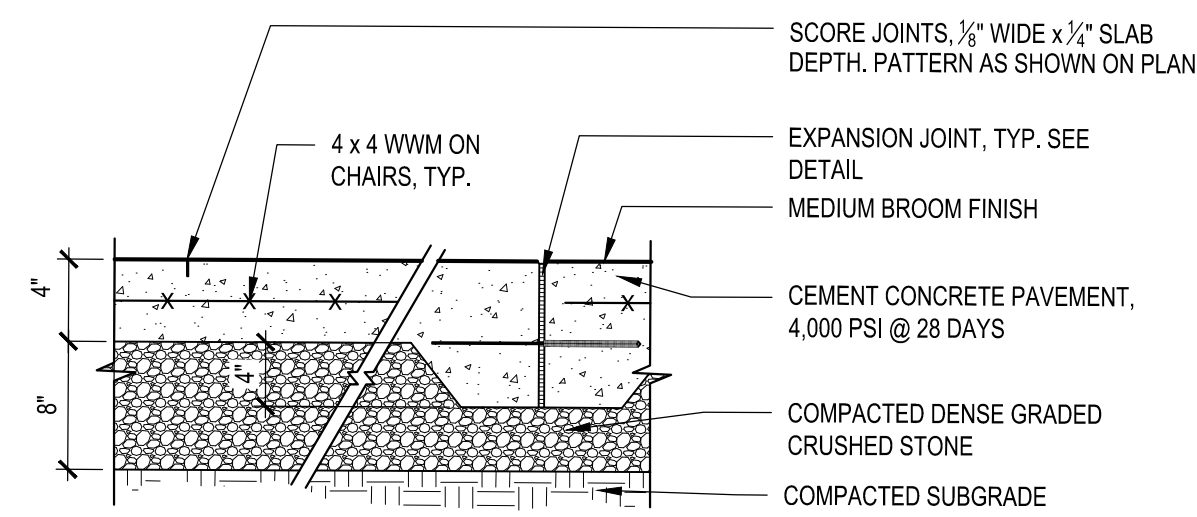
- NOTE:
1. CONTRACTOR TO PROVIDE SMOOTH TRANSITION WHERE NEW PAVEMENT ABUTS EXISTING PAVEMENT, TYP.

6 PEDESTRIAN HOT MIX ASPHALT PAVEMENT
SCALE: N.T.S.

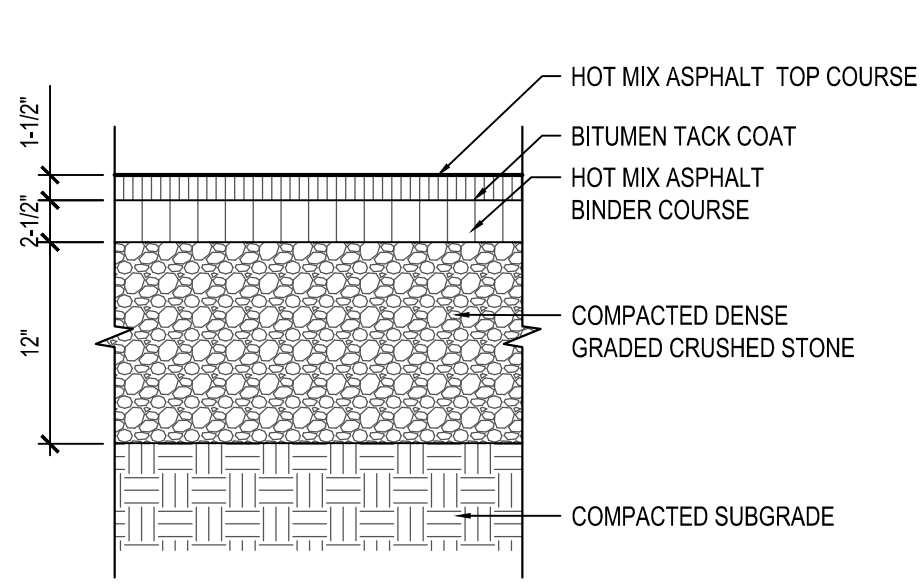


- EXPANSION JOINT INSTALLATION NOTES:
- DOWEL IS TYPICAL AT ALL EXPANSION JOINTS (25' O.C.) WITHIN CONCRETE PAVING AND BETWEEN NEW CONCRETE PAVING AND EXISTING CONCRETE PAVING TO REMAIN.
 - DELETE EXPANSION SLEEVE AND DOWEL WHERE JOINT ABUTS WALL, CURBS, OR OTHER VERTICAL SURFACES, UNLESS OTHERWISE NOTED.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

1 VEHICULAR CONCRETE PAVEMENT
SCALE: N.T.S.

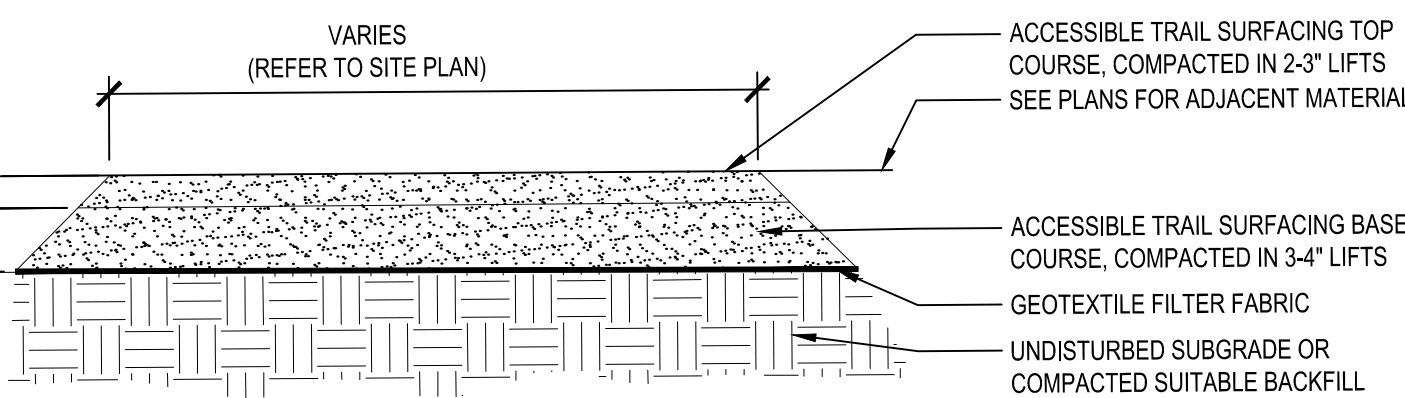


5 VEHICULAR HOT MIX ASPHALT PAVEMENT
SCALE: N.T.S.



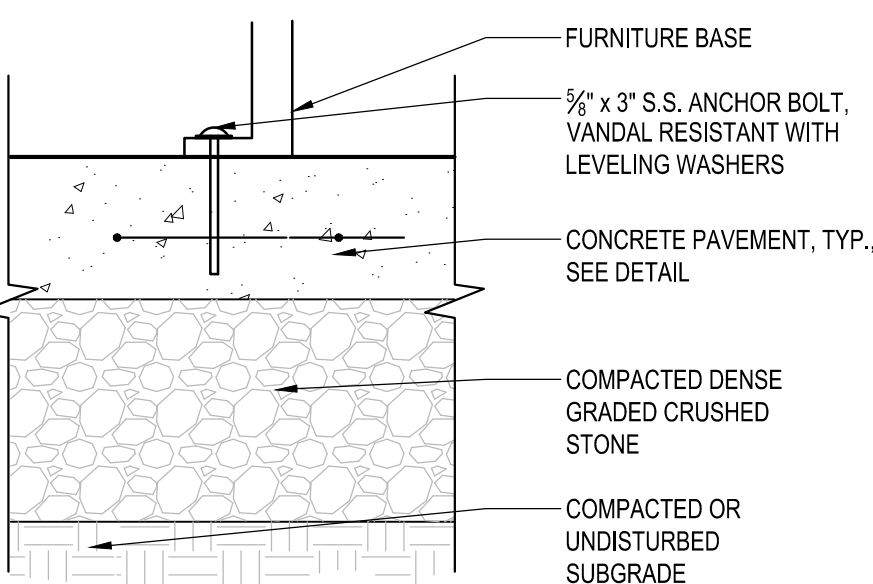
- NOTES:
1. CONTRACTOR TO PROVIDE SMOOTH TRANSITION WHERE NEW PAVEMENT ABUTS EXISTING PAVEMENT.

9 TRAIL SURFACING
SCALE: N.T.S.



- NOTE:
1. PITCH OF PATH VARIES, SEE PLANS.
2. REFER TO SPECIFICATIONS FOR MATERIAL AND GRADATION REQUIREMENTS.

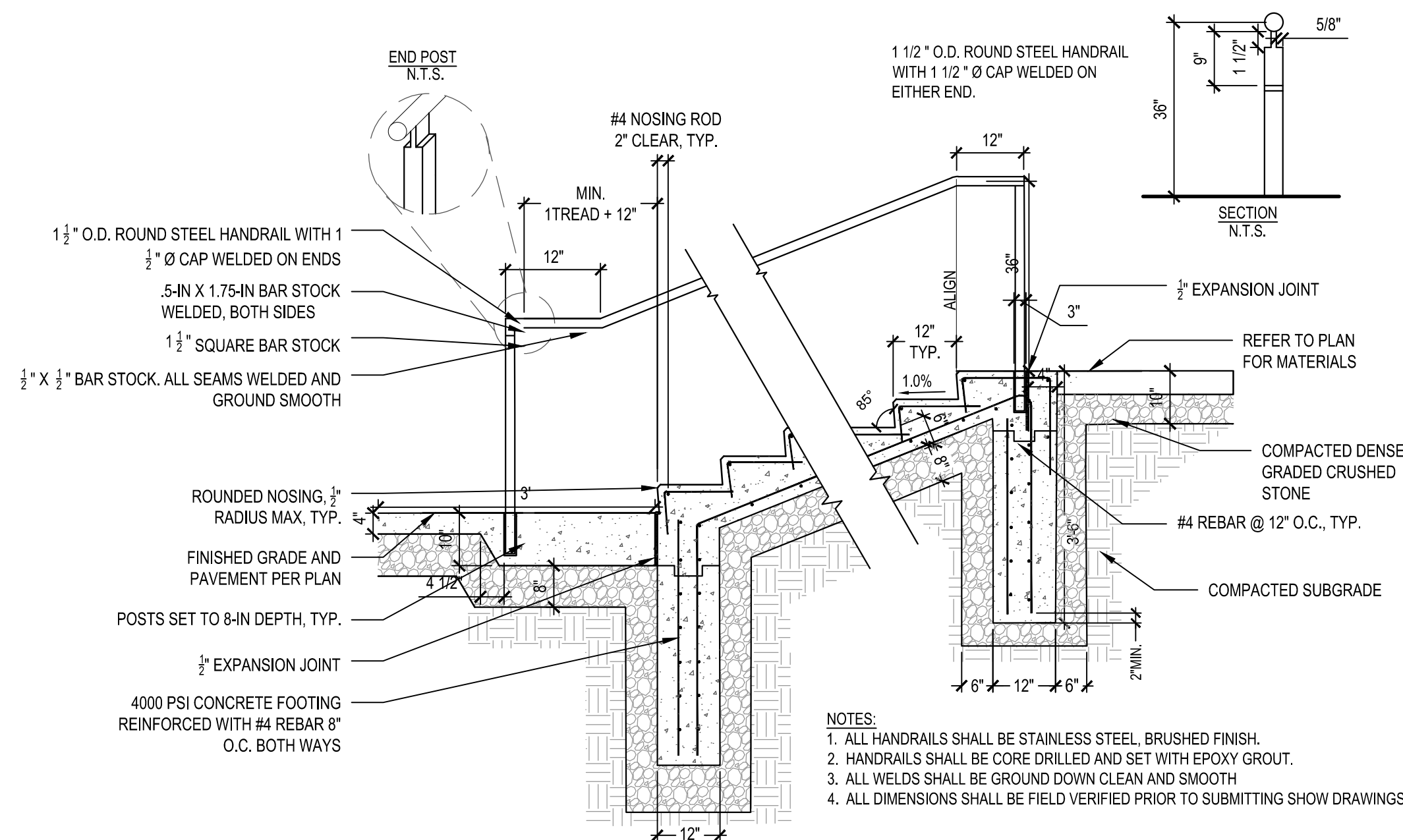
10 SITE FURNITURE SURFACE MOUNT
SCALE: N.T.S.



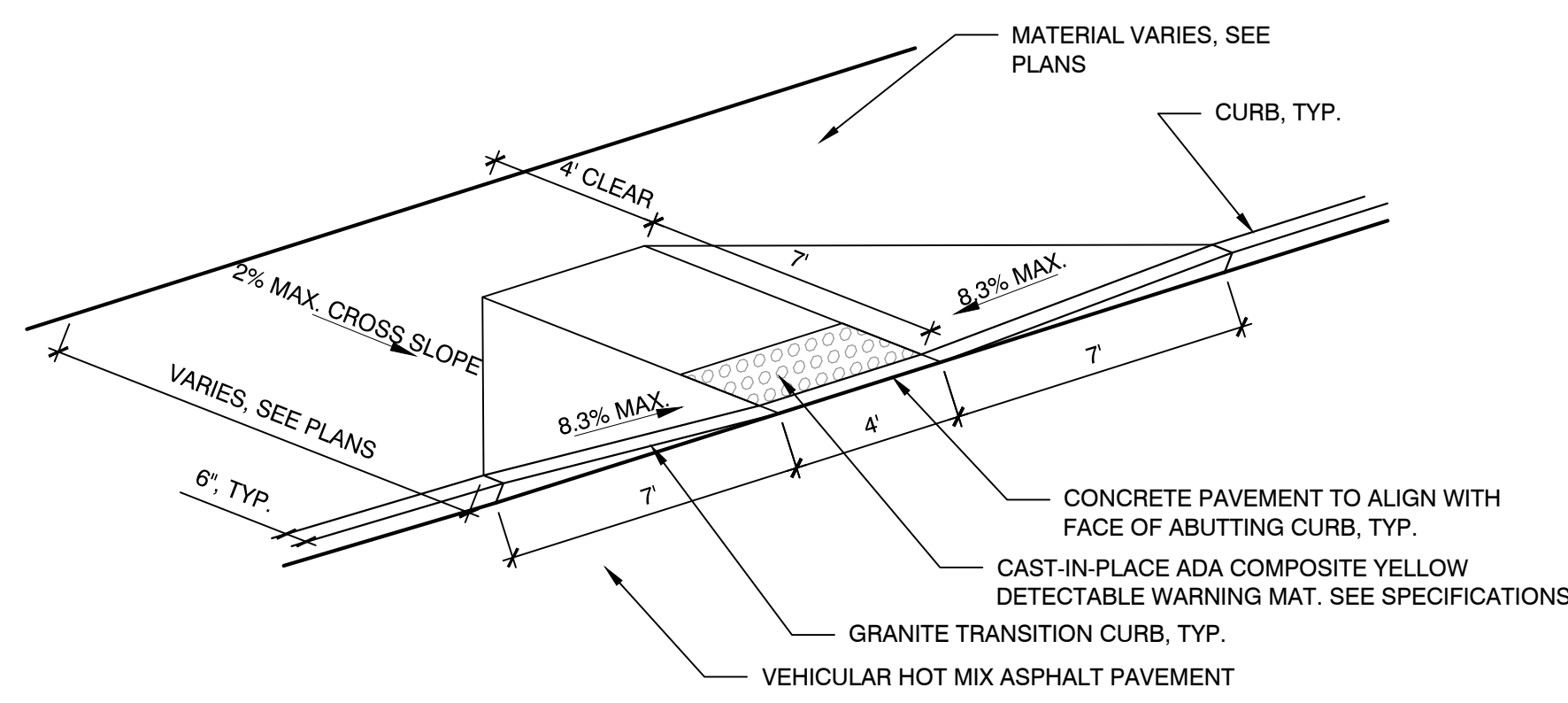
- NOTE:
1. ALL SITE FURNISHINGS SHALL BE SURFACE MOUNTED PER MANUFACTURER'S RECOMMENDATIONS.

SURFACE MOUNT TO CONCRETE

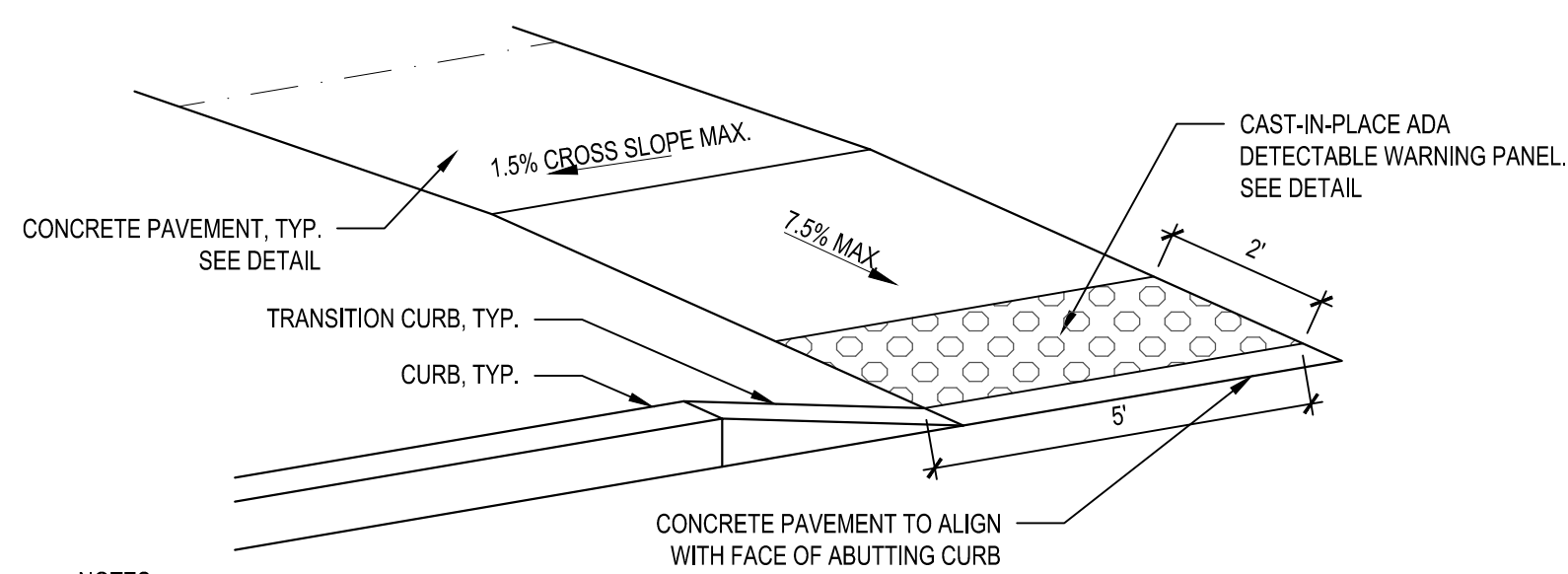
11 CAST-IN-PLACE CONCRETE STAIRS WITH STEEL HANDRAIL
SCALE: N.T.S.



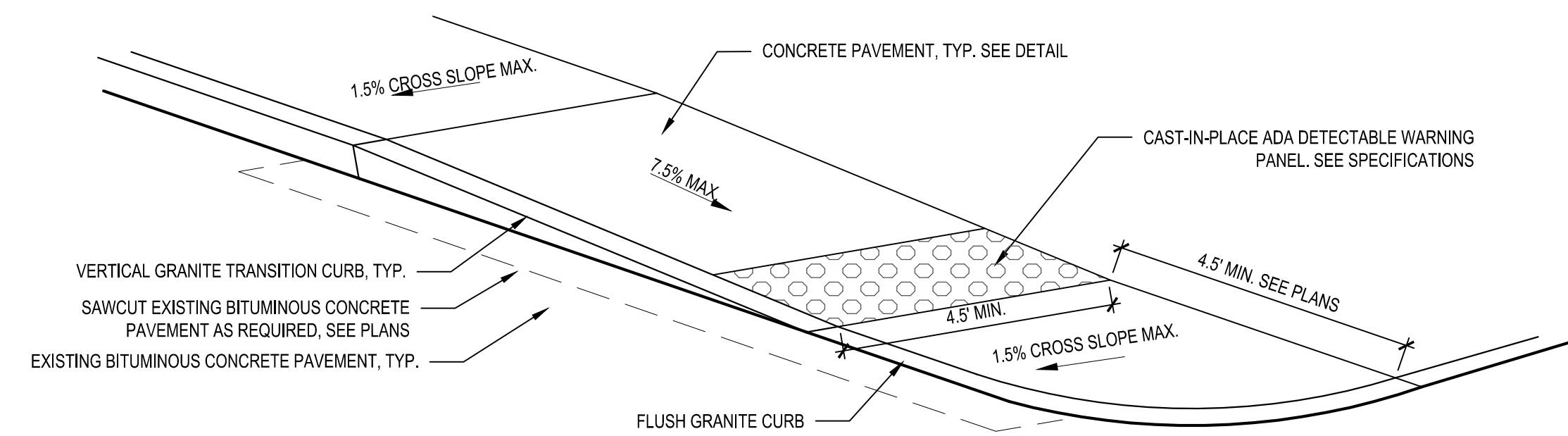
- NOTES:
1. ALL HANDRAILS SHALL BE STAINLESS STEEL, BRUSHED FINISH.
2. HANDRAILS SHALL BE CORE DRILLED AND SET WITH EPOXY GROUT.
3. ALL WELDS SHALL BE GROUND DOWN CLEAN AND SMOOTH
4. ALL DIMENSIONS SHALL BE FIELD VERIFIED PRIOR TO SUBMITTING SHOW DRAWINGS.



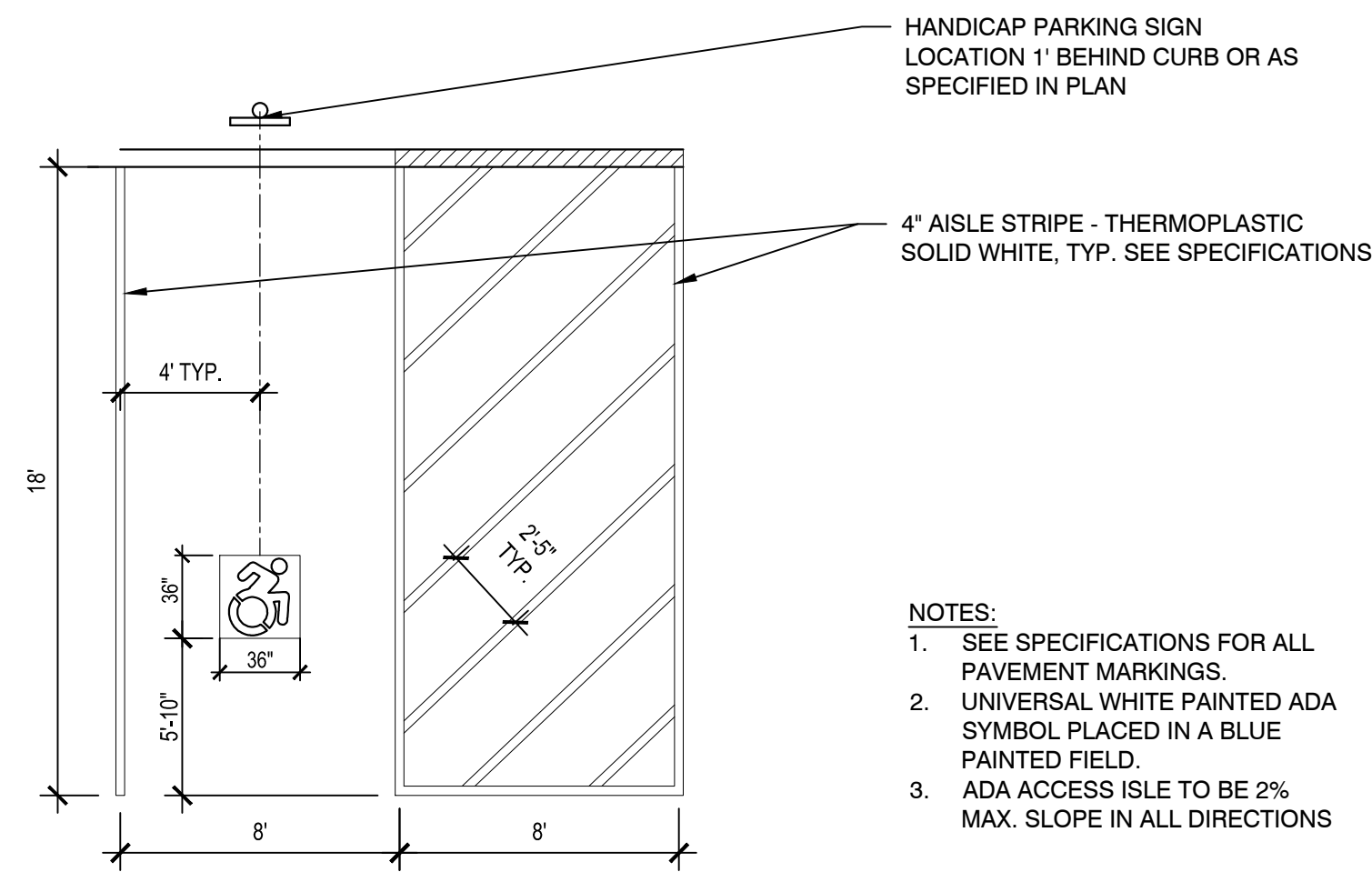
1 ADA CURB CUT A
SCALE: N.T.S.



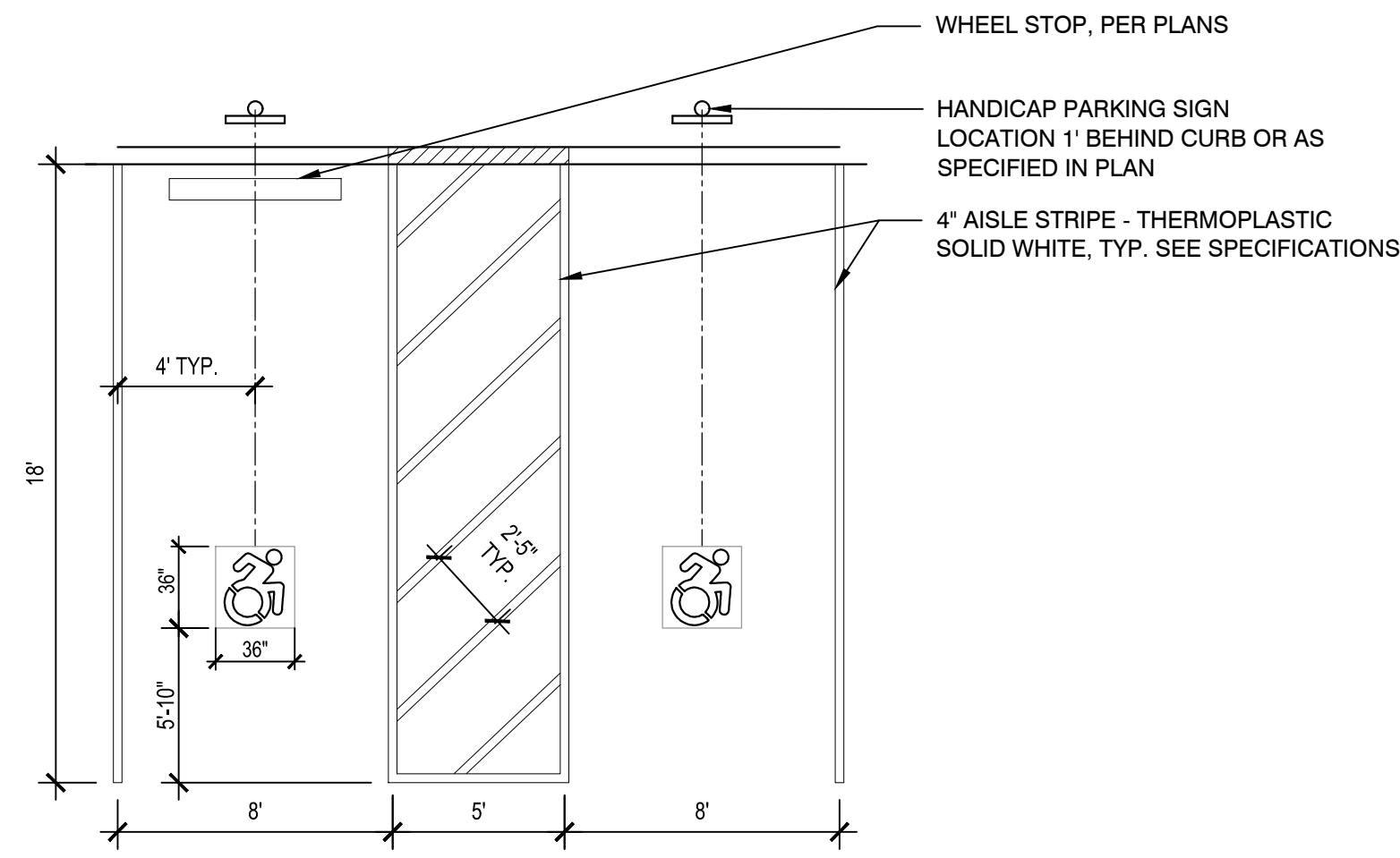
2 ADA CURB CUT B
SCALE: N.T.S.



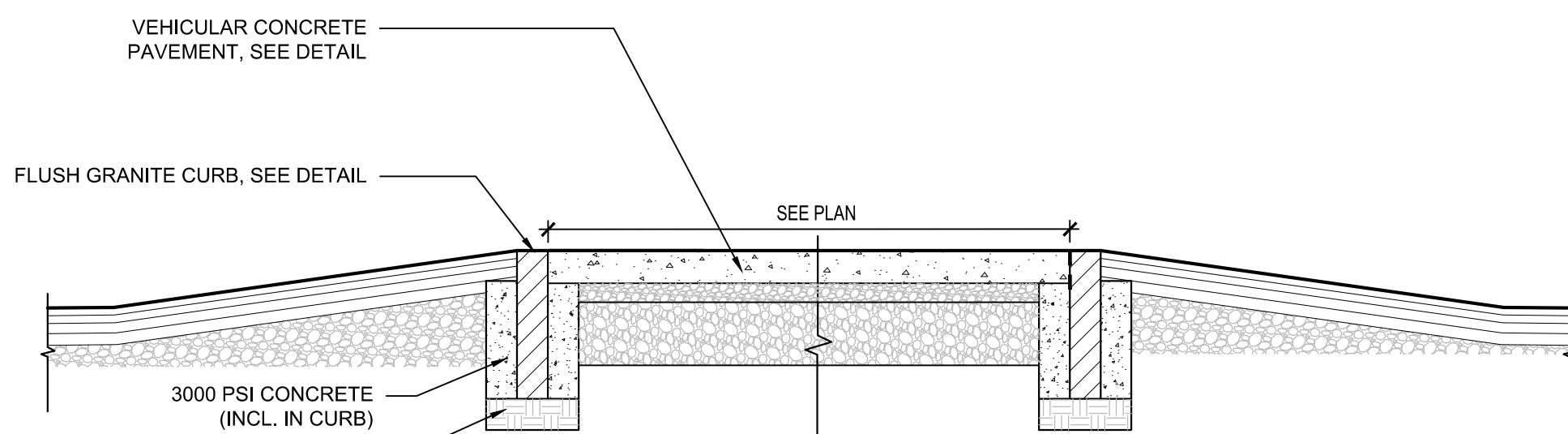
3 ADA CURB CUT TYPE C
SCALE: N.T.S.



ACCESSIBLE PARKING SPACES FOR VANS

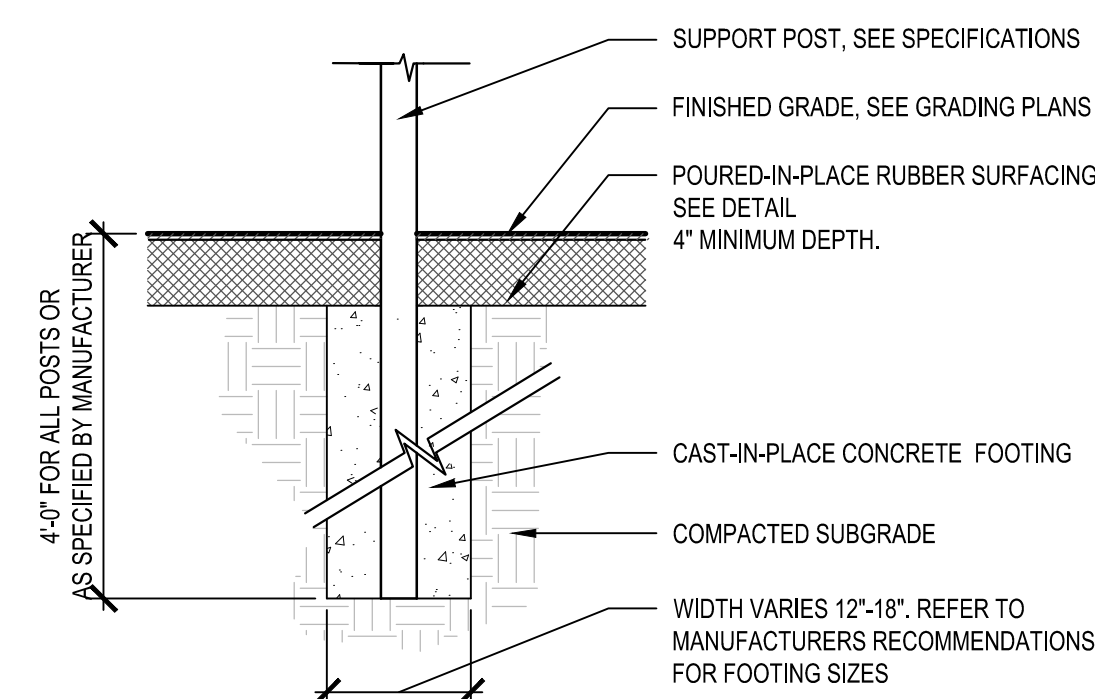


ACCESSIBLE PARKING SPACES FOR CARS

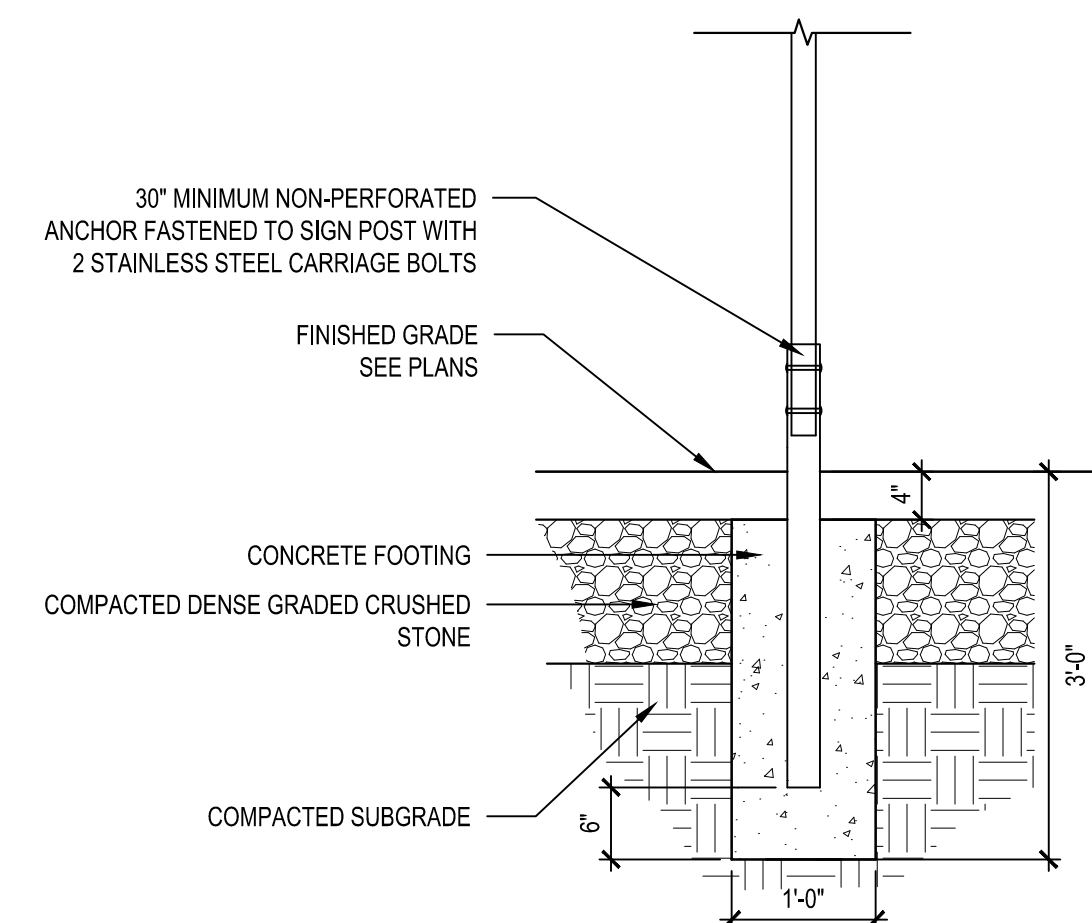


NOTES:
1. CONTRACTION JOINTS TO BE SPACED AT A MAXIMUM OF 10' APART.
2. CONCRETE TO BE 5,000 PSI - 3/4\"/>

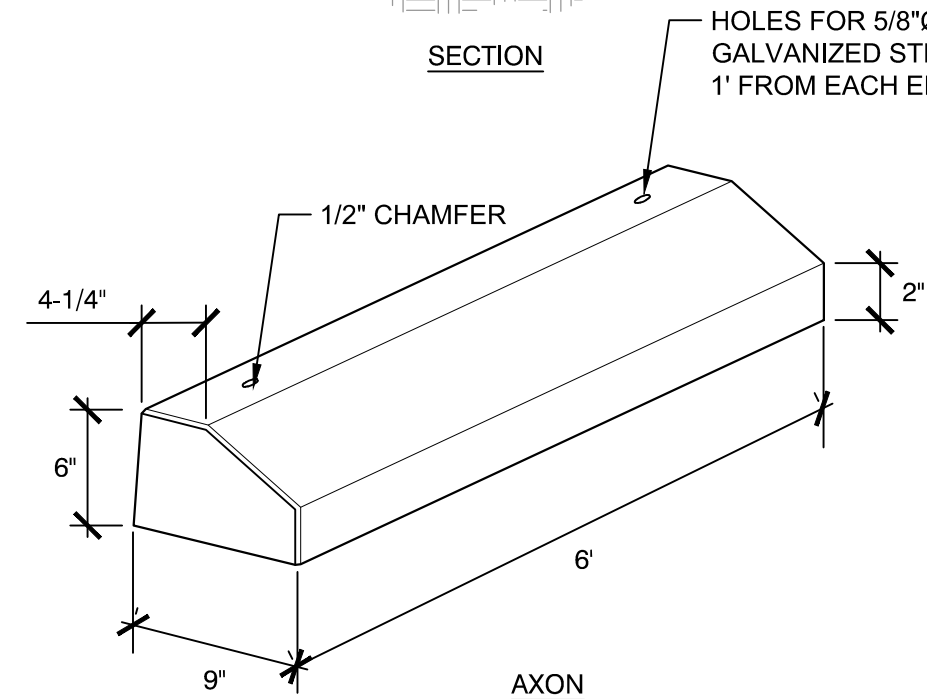
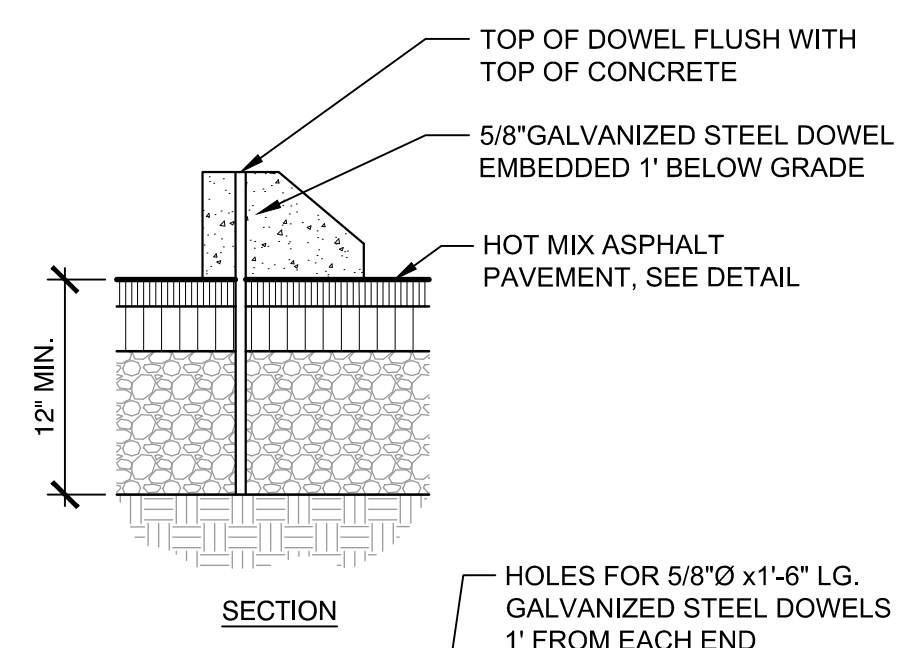
5 SPEED TABLE
SCALE: N.T.S.



6 PLAY EQUIPMENT FOOTING
SCALE: N.T.S.



7 REGULATORY SIGN FOOTING
SCALE: N.T.S.



NOTES:
1. MINIMUM REINFORCING 4 - #3 BARS, FULL LENGTH
2. MINIMUM WEIGHT PER FOOT - 44 LBS.
3. CURBING TO BE DOWELLED TO ASPHALT PAVING.
4. DOWELS TO BE RECESSED 1\"/>

8 PRECAST CONCRETE WHEEL STOP
SCALE: N.T.S.

Consultants:

No.	Date	Description

Revisions:

No.	Date	Description

COA:

Seal:

Issued For:
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Scale:

Date: 02/14/2024
Drawn By: AG, KH
Reviewed By: JM
Approved By: BK
W&S Project No.: ENG22 - 0852
W&S File No.:

Drawing Title:
LANDSCAPE DETAILS

Sheet Number:
L702

Consultant:

No.	Date	Description

Revisions:

COA:

Seal:



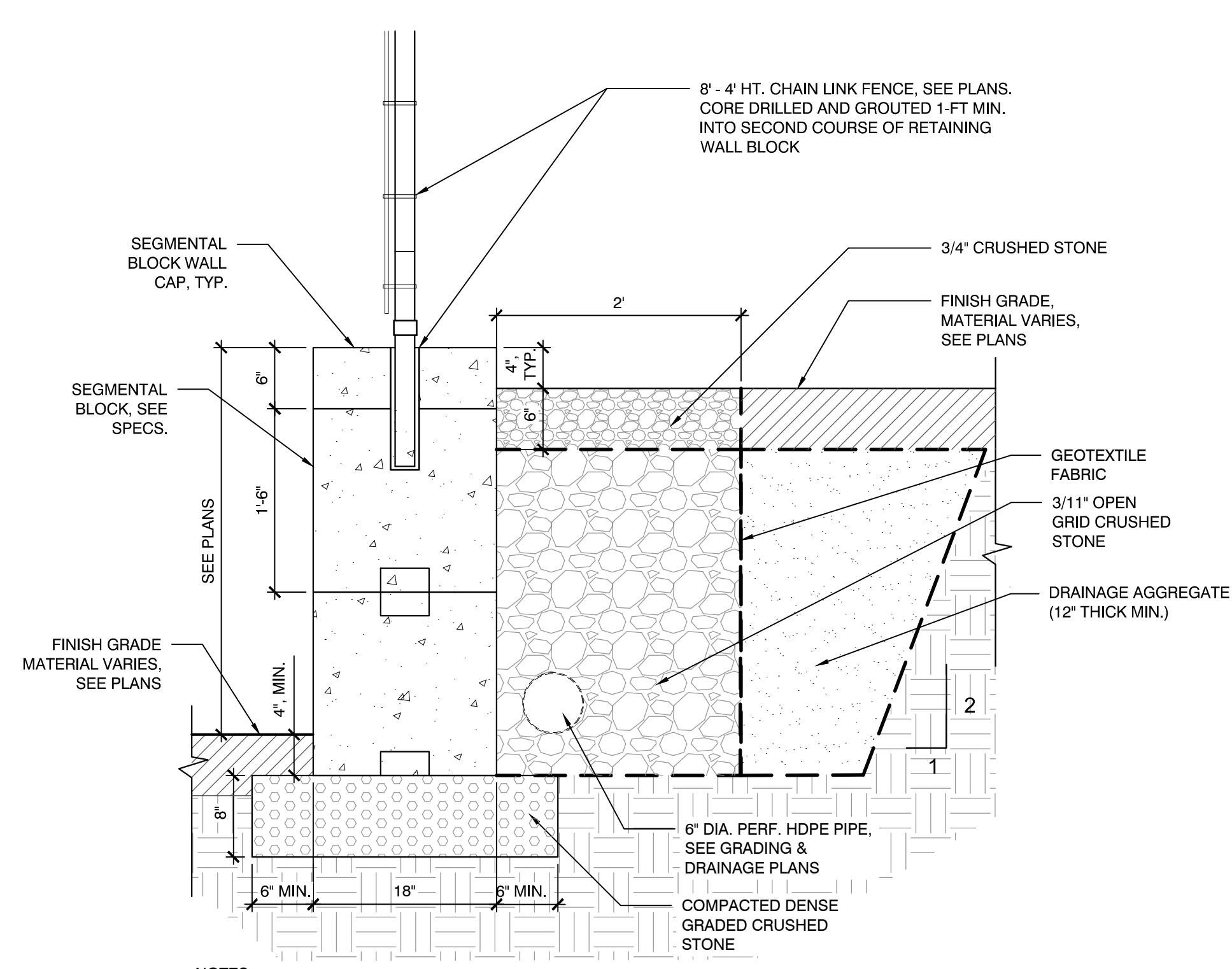
Issued For:
CONSTRUCTION DOCUMENTS

Date: 02/14/2024
Drawn By: AG, KH
Reviewed By: JM
Approved By: BK
W&S Project No.: ENG22 - 0852
W&S File No.:

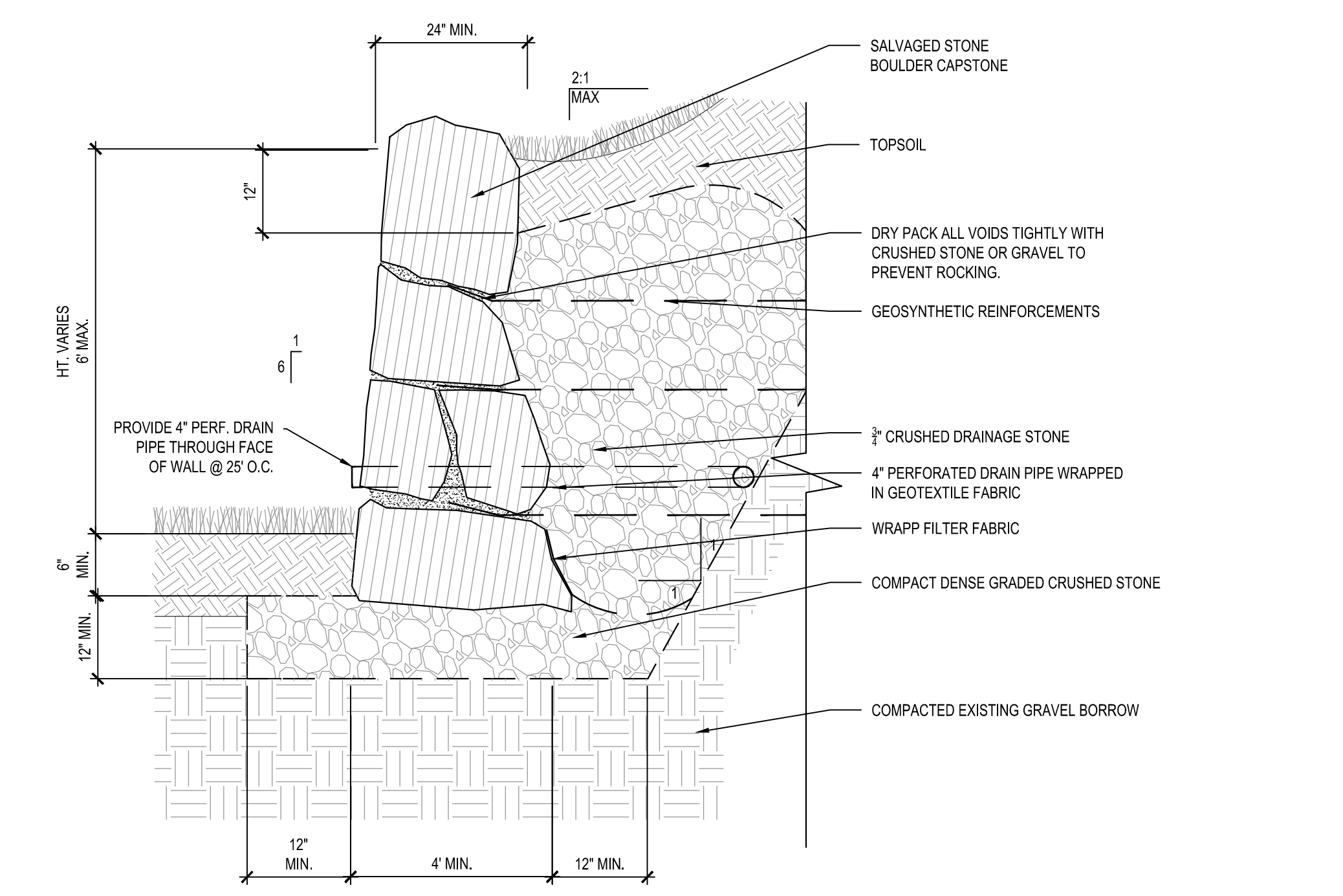
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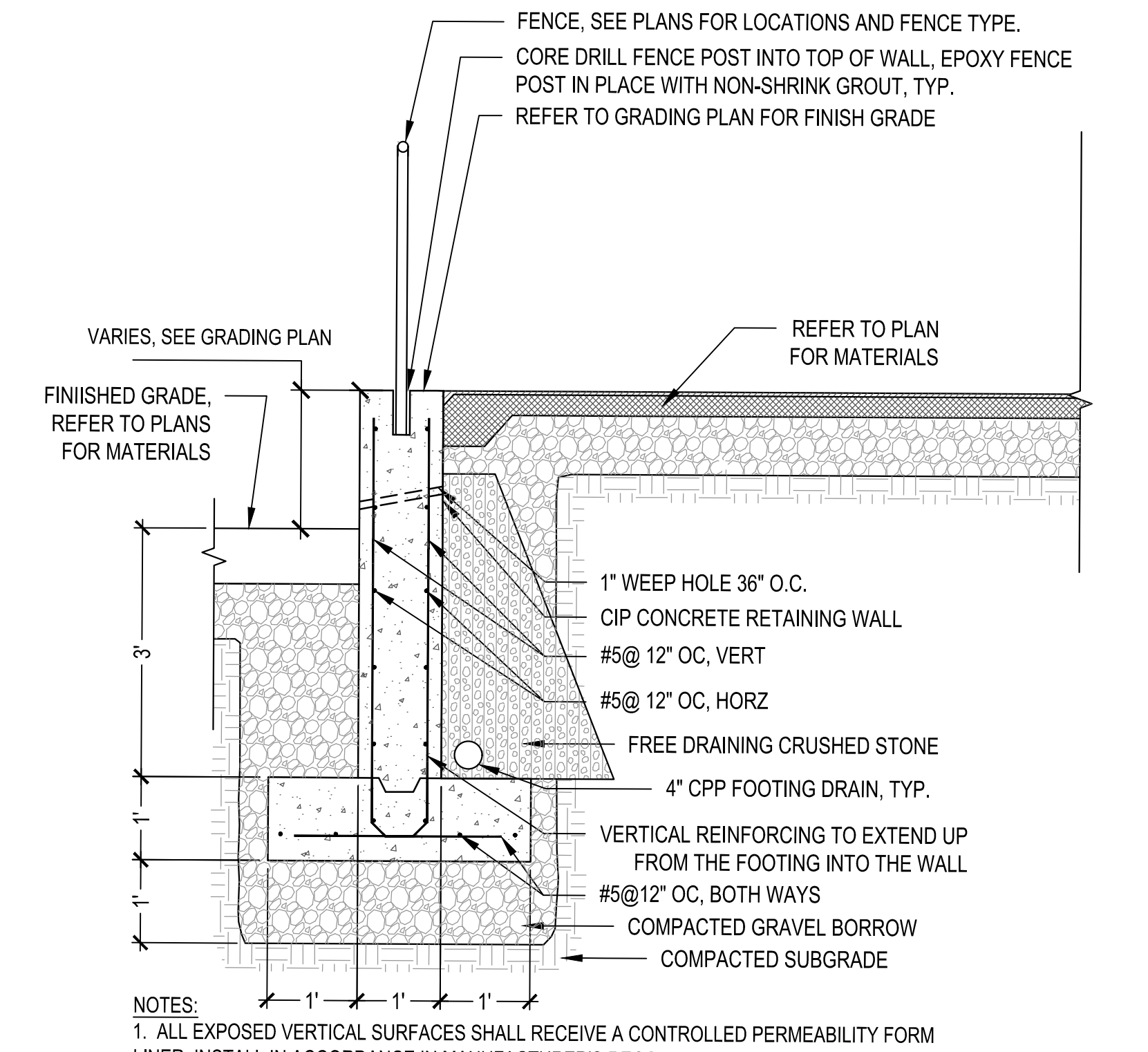
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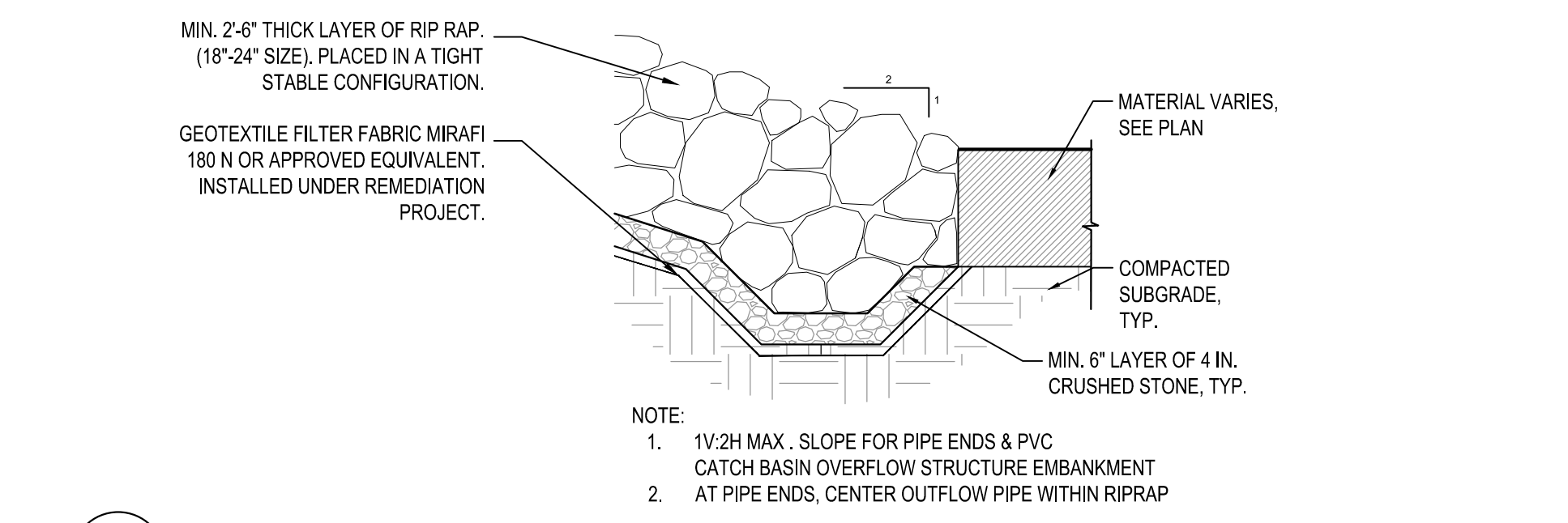
1 SEGMENTAL BLOCK RETAINING WALL WITH FENCE POST
SCALE: N.T.S.



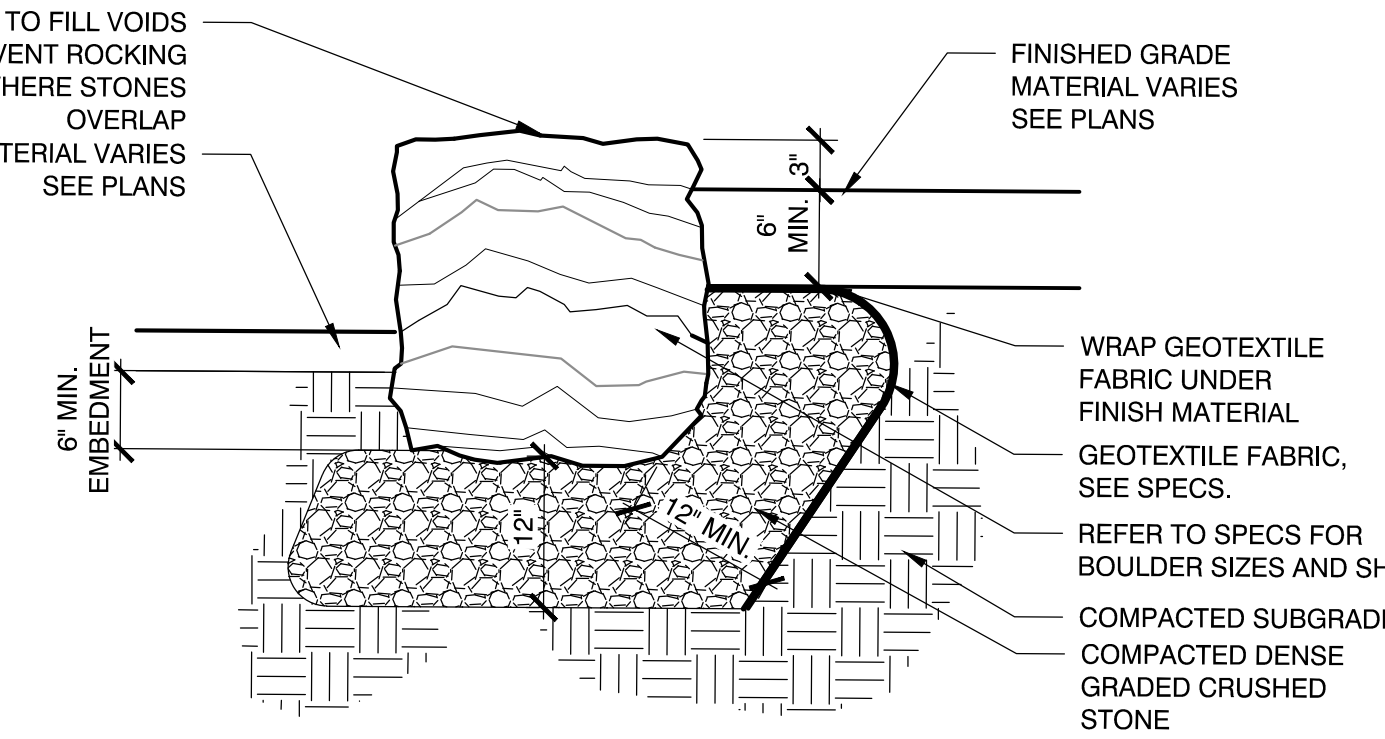
2 REINFORCED SOIL SLOPE WITH BOULDER FACING - 6' OR LESS
SCALE: N.T.S.



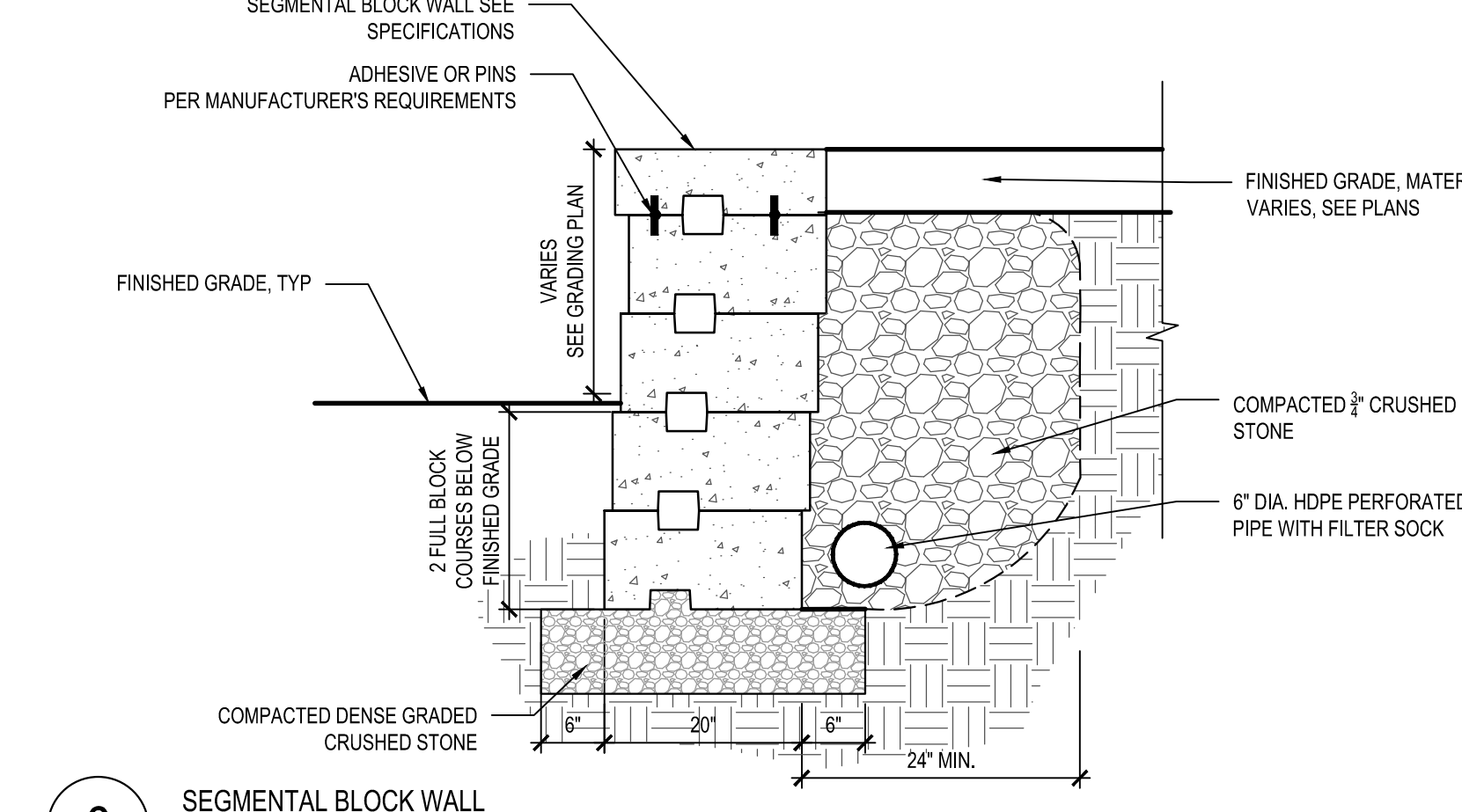
3 CAST IN PLACE CONCRETE RETAINING WALL WITH FENCE POST AT POURED IN PLACE RUBBER SURFACING
SCALE: N.T.S.



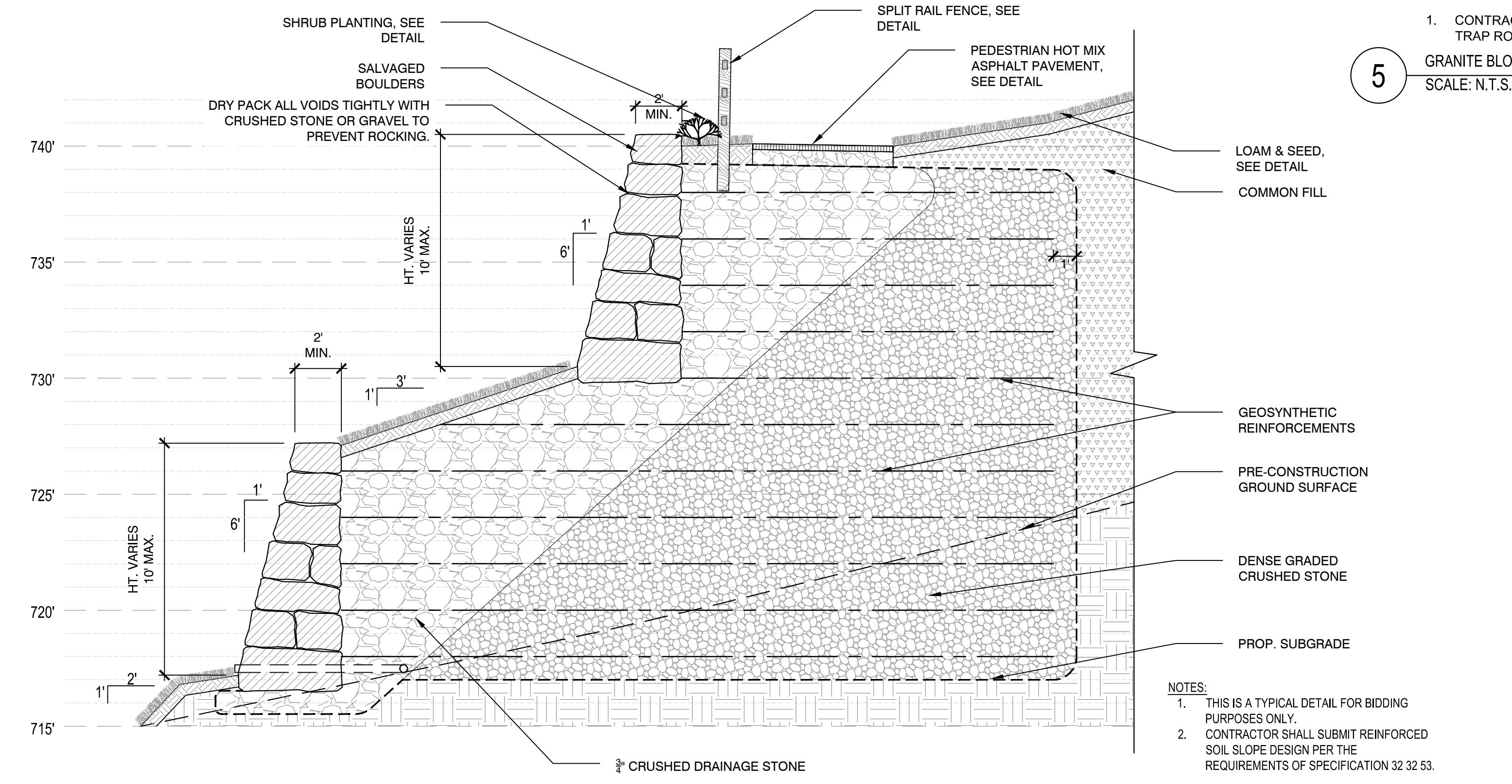
4 RIPRAP SLOPE
SCALE: N.T.S.



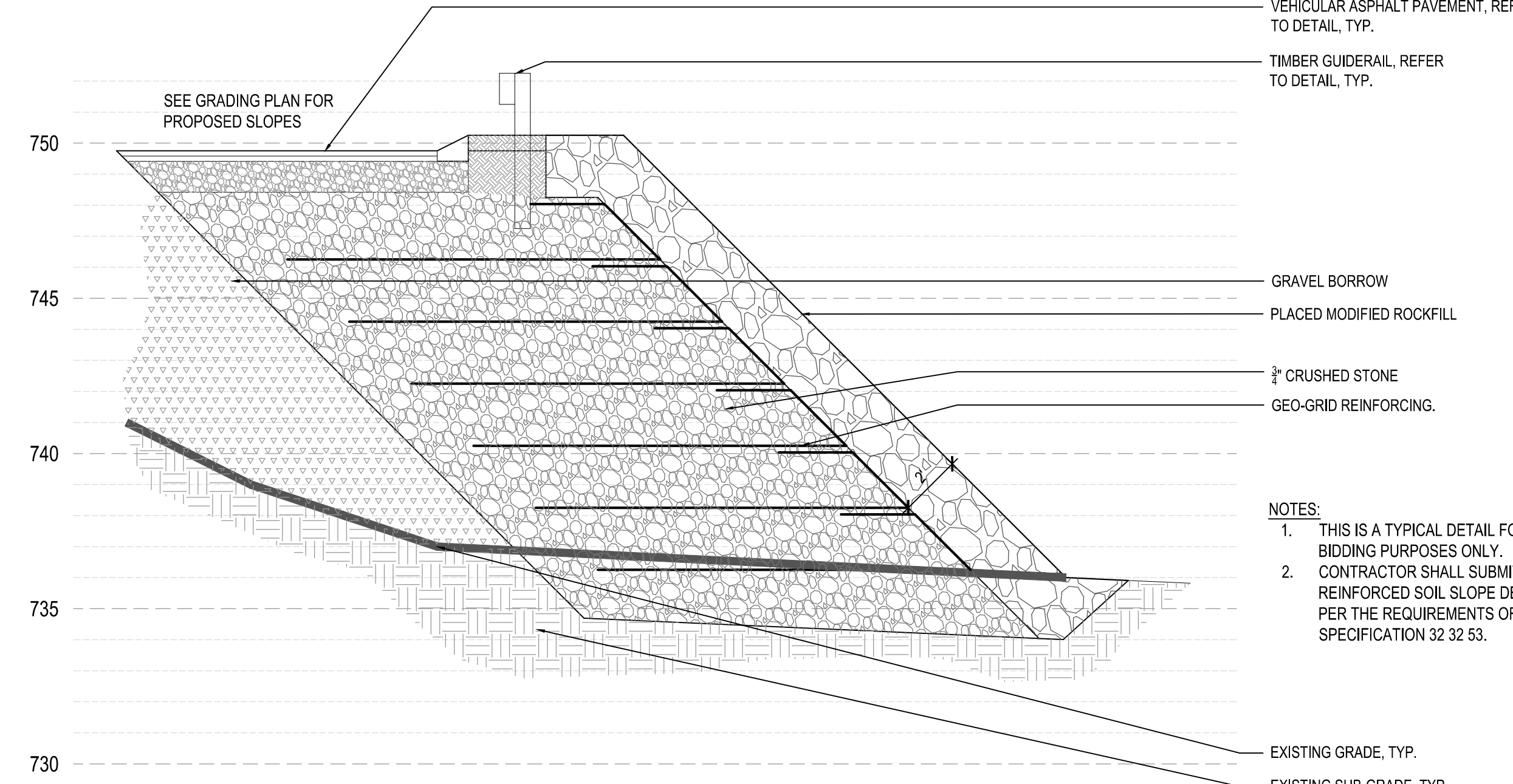
5 GRANITE BLOCK SEAT WALL
SCALE: N.T.S.



6 SEGMENTAL BLOCK WALL
SCALE: N.T.S.

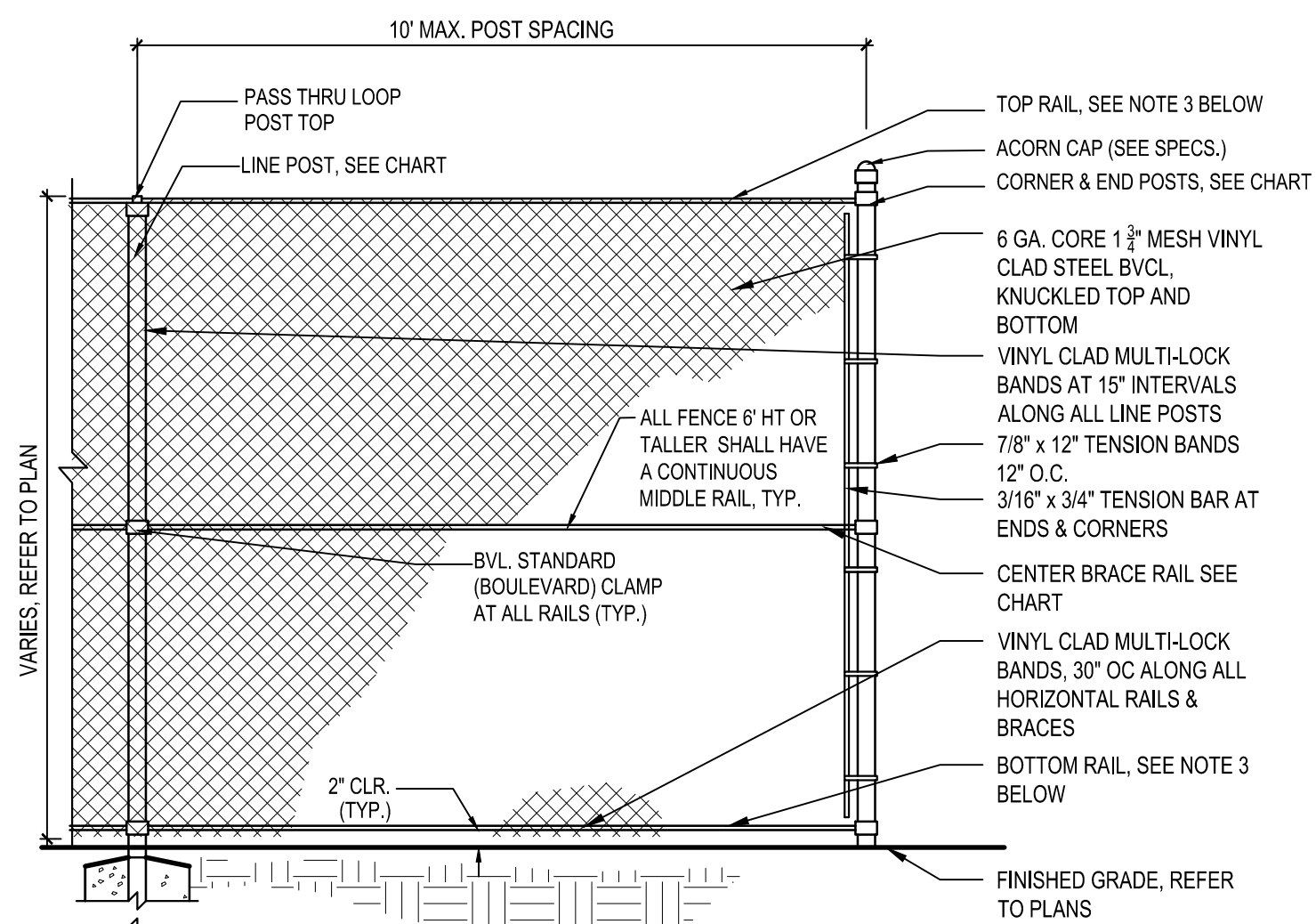


7 REINFORCED SOIL SLOPE WITH BOULDER FACING - TERRACED WALL SECTION
SCALE: N.T.S.



8 REINFORCED SOIL SLOPE WITH RIPRAP FACING
SCALE: N.T.S.

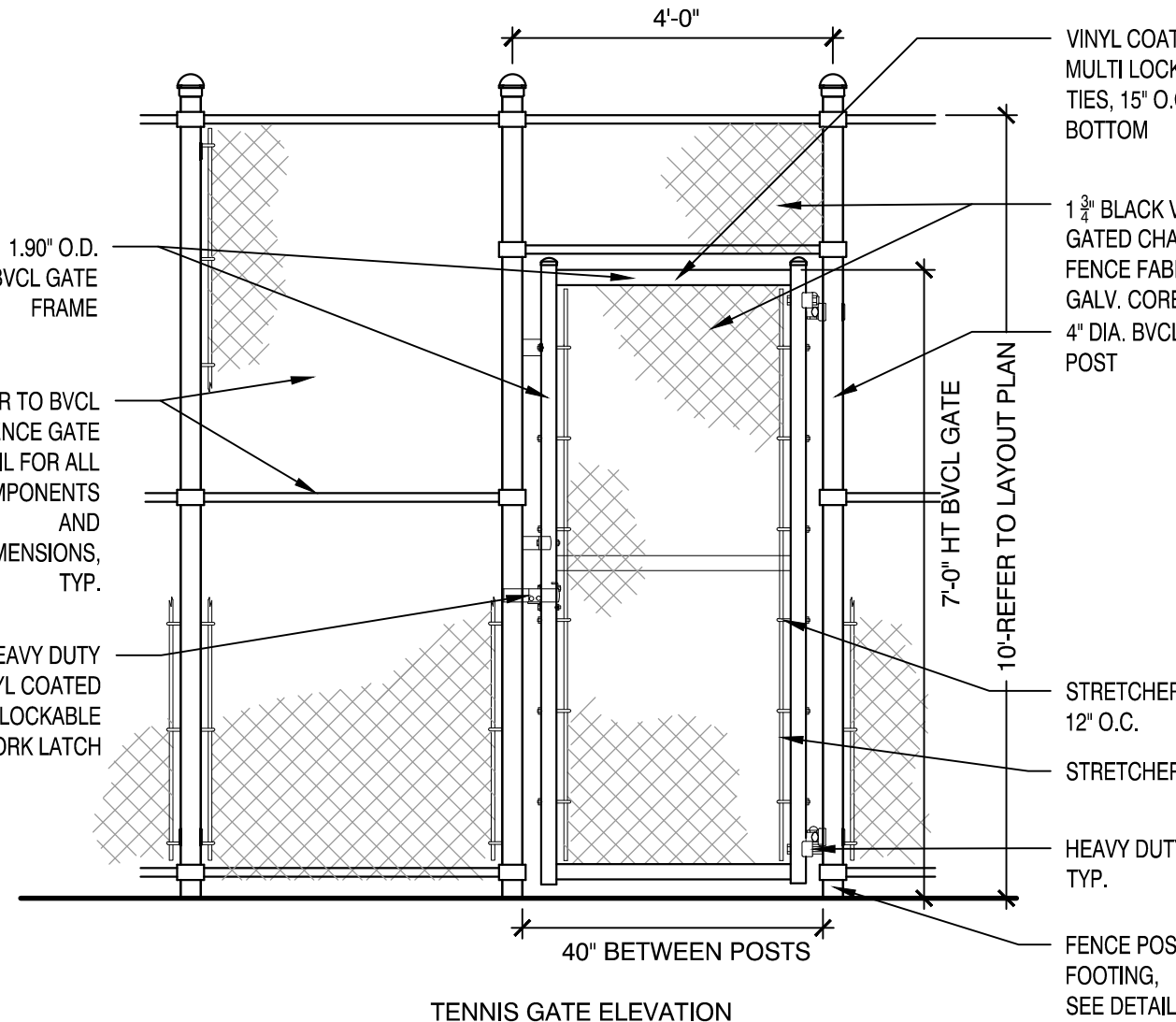
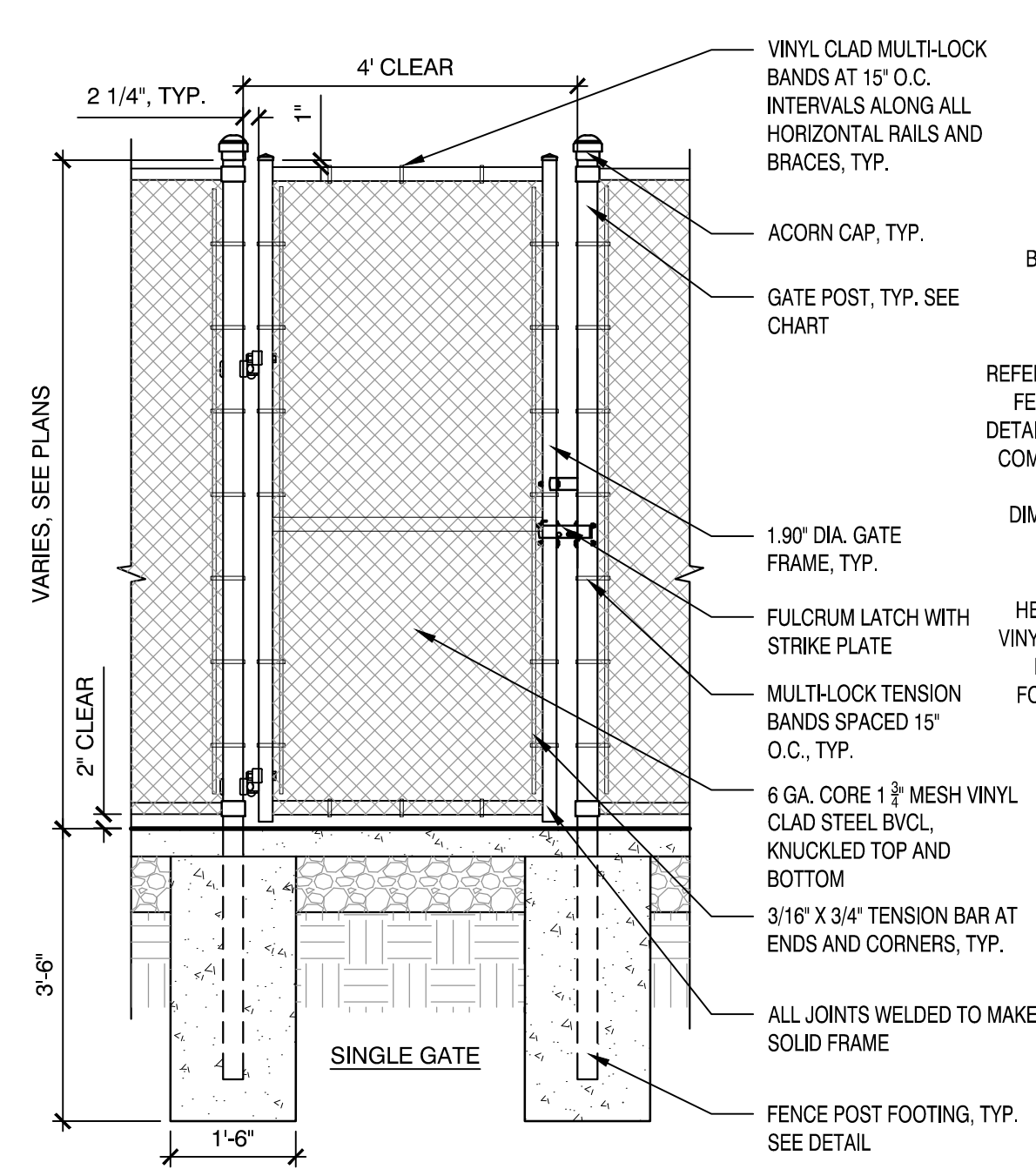
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- NOTES:
- ALL FENCE PIPE SHALL BE SCH. 40, VINYL CLAD HOT DIP GALV. STEEL PIPE.
 - ALL LINE POSTS SHALL BE INSTALLED EQUALLY SPACED BETWEEN END & CORNER POSTS.
 - ALL RAILS SHALL BE 1.66" O.D. PIPE.
 - ALL CLAMPS, TIES, POST TOPS, BANDS, POSTS, ETC. SHALL BE VINYL CLAD TO MATCH FABRIC.
 - REFER TO SPECS. FOR GATE REQUIREMENTS.

	4' HT.	6' HT.	8' HT. & GREATER
END CORNER & FULL POSTS	2.375"	2.875"	4.0"
LINE POST	1.900"	2.375"	2.875"
TOP & BOTTOM RAIL	1.660"	1.660"	1.660"
MID RAIL BRACES	N/A	1.660"	1.660"

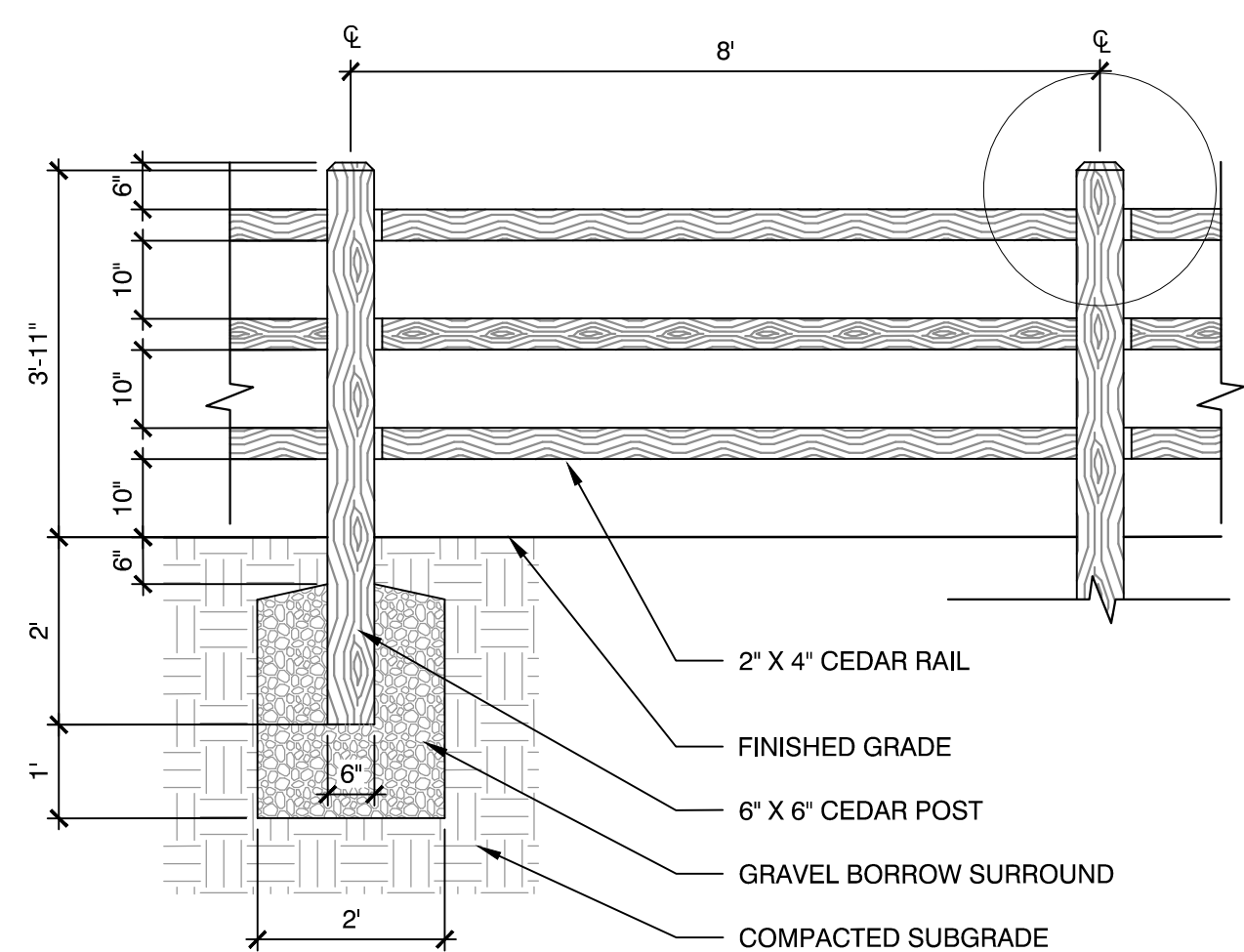
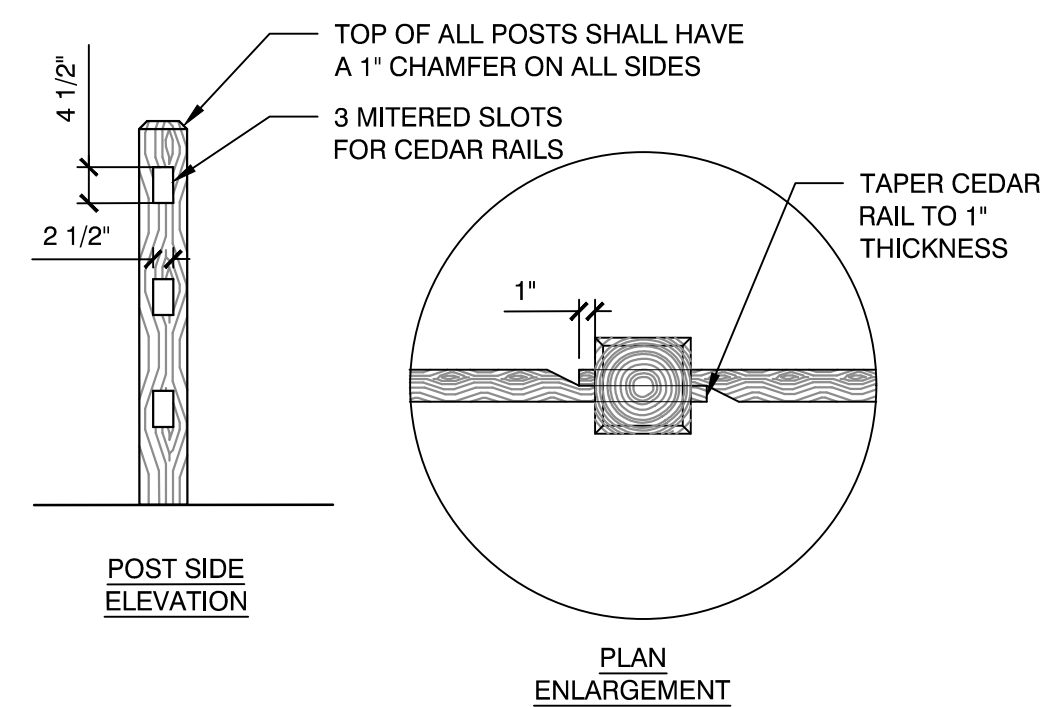
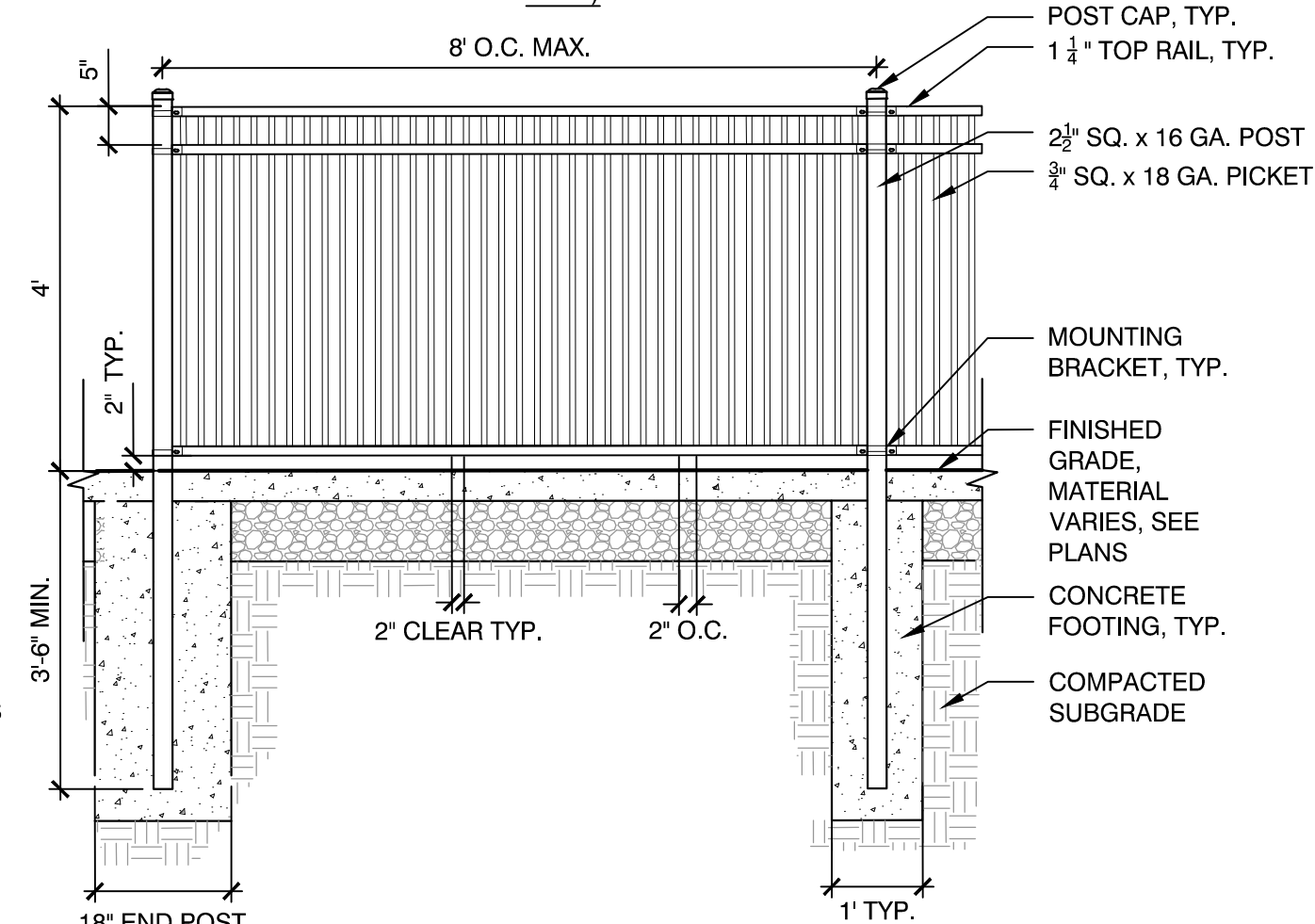
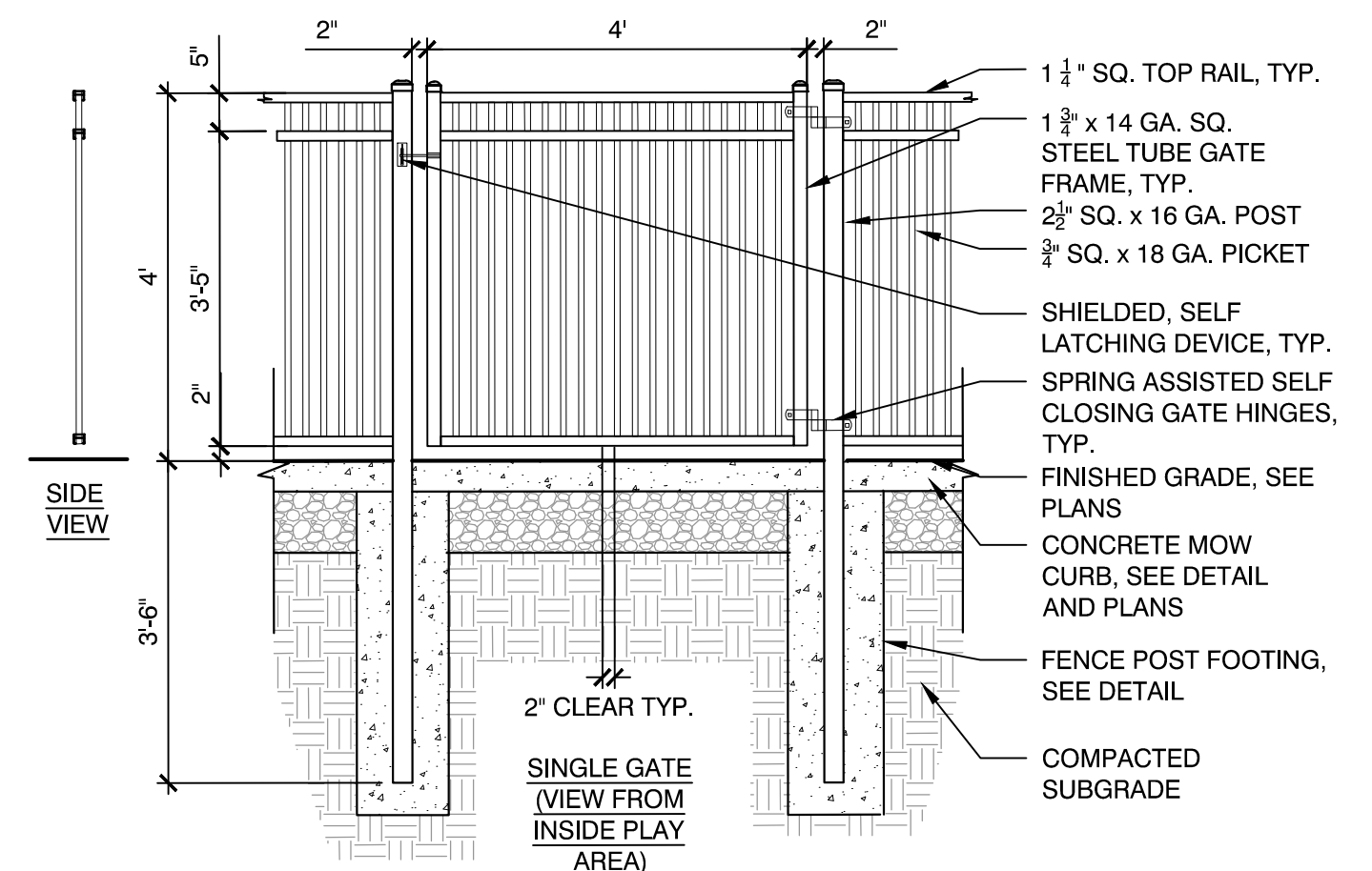
1 BLACK VINYL CHAIN LINK FENCE
SCALE: N.T.S.



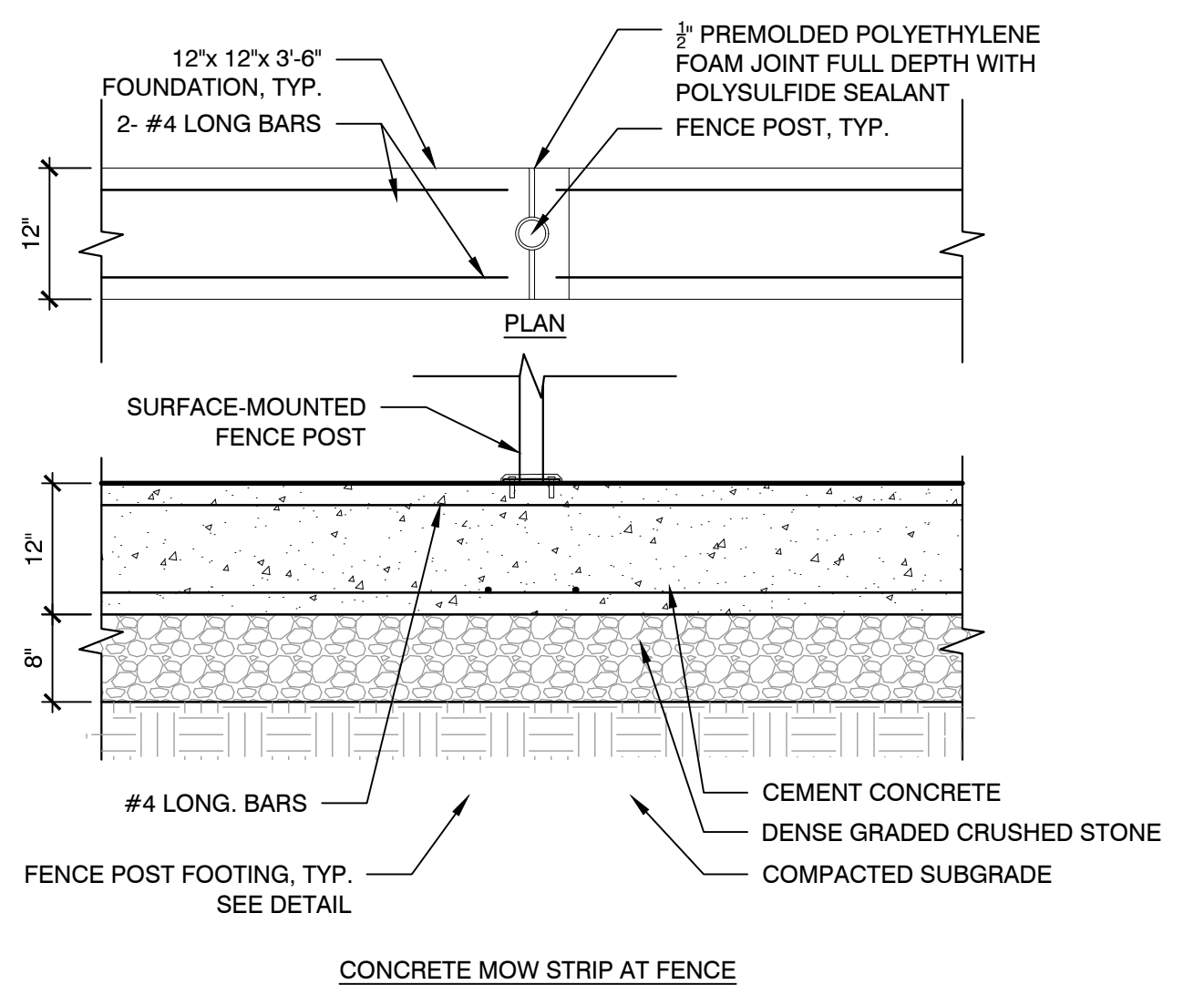
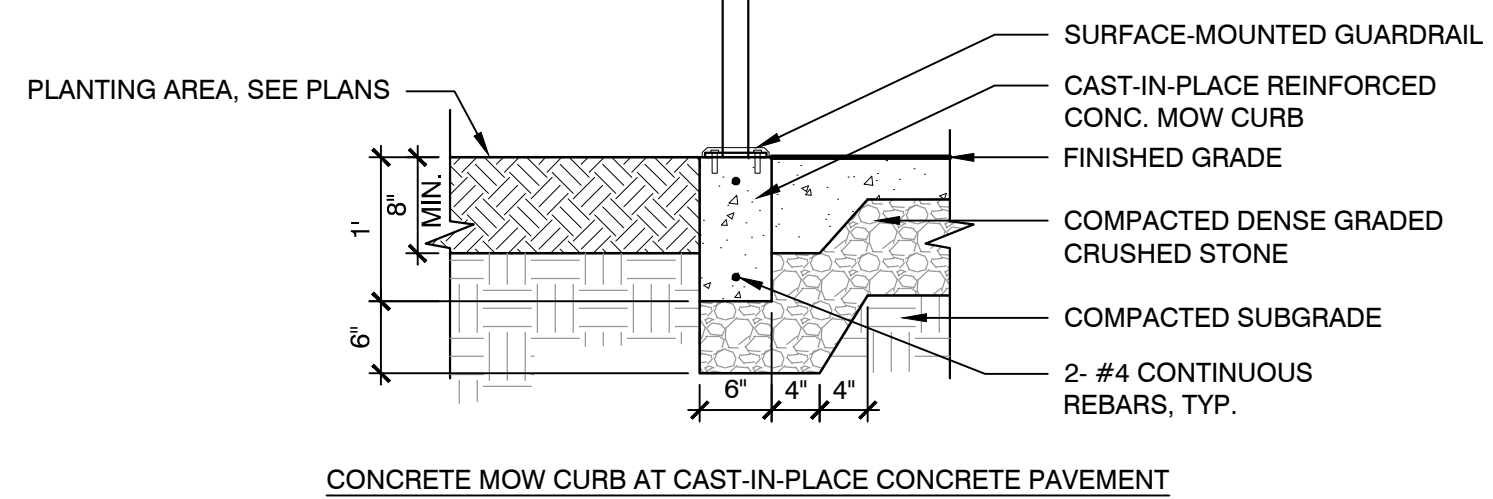
- NOTES:
- ALL GATE PLANS AND ELEVATIONS FOR LAYOUT REFERENCE ONLY.

- NOTES:
- ALL MATERIALS FOR POST, RAILS AND PICKETS SHALL BE ZINC, HOT-DIPPED GALVANIZED STEEL. COLOR: BLACK.
 - PLAYGROUND FENCE AND GATES TO MEETS ASTM STANDARDS.
 - GATES AT PLAYGROUND TO OPEN OUTWARD AWAY FROM PLAY ENVIRONMENT, SHALL BE SELF CLOSING, AND SHALL HAVE A SELF-LATCHING DEVICE.

2 ORNAMENTAL METAL PICKET FENCE
SCALE: N.T.S.

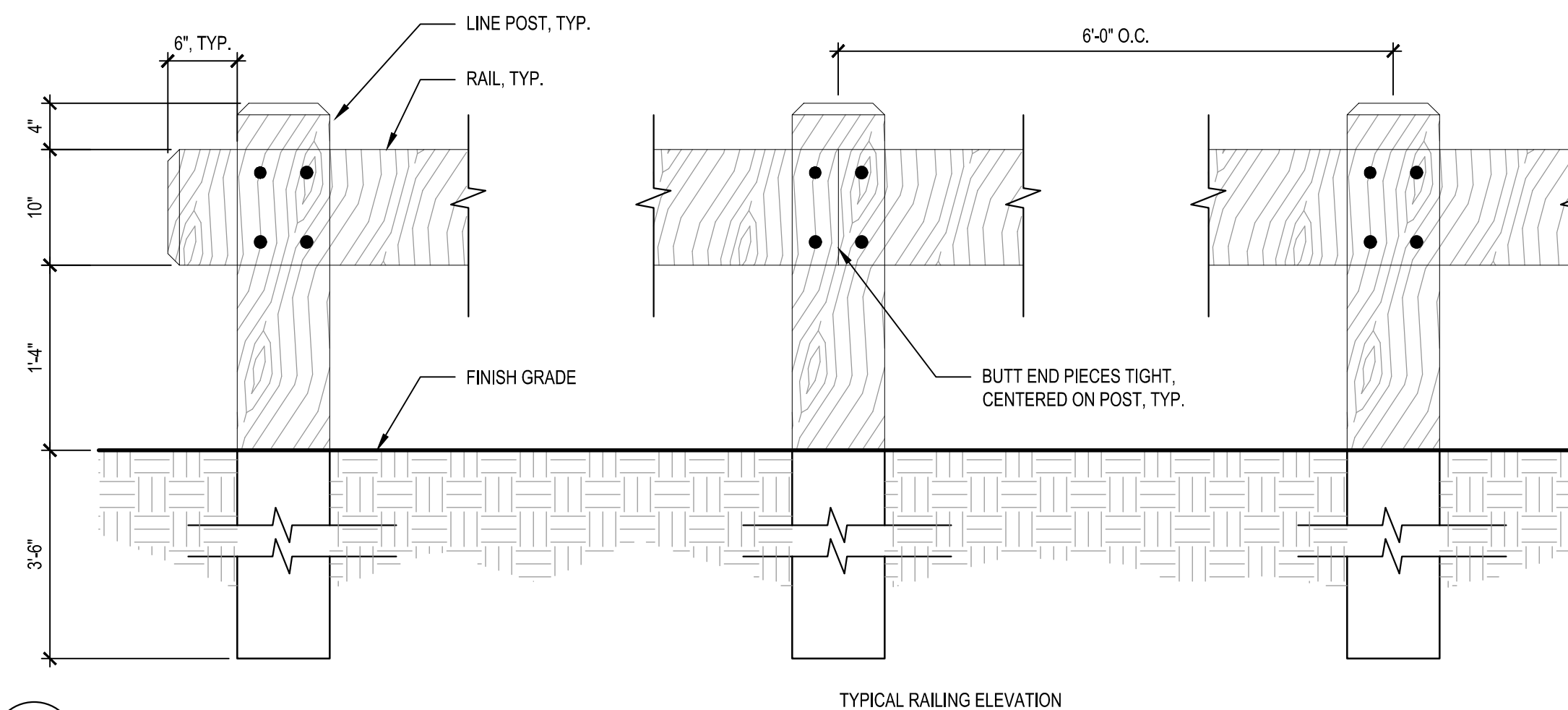
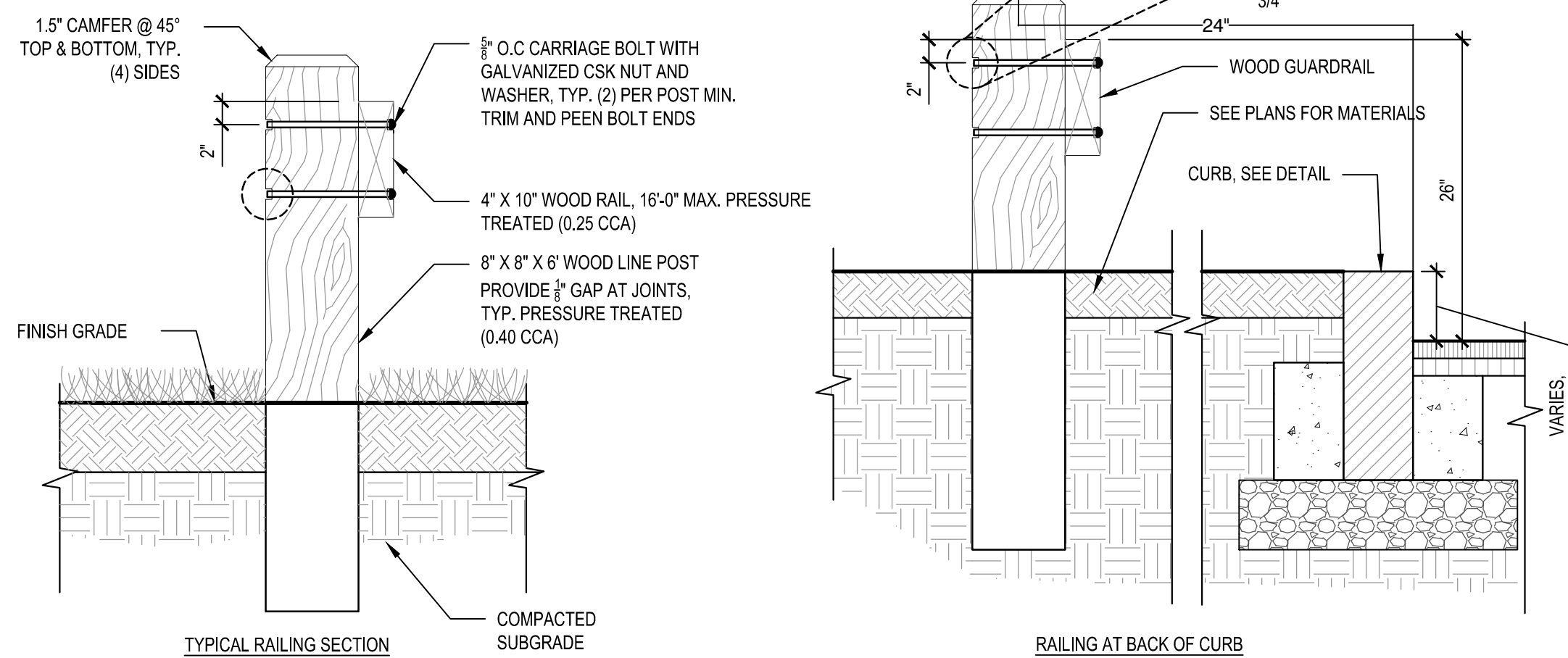


3 SPLIT RAIL FENCE
SCALE: N.T.S.



- NOTES:
- MOW STRIP CORNERS ADJACENT TO RESILIENT SURFACING SHALL BE SQUARE TO ENSURE SMOOTH INTERFACE BETWEEN MATERIALS.
 - MOW STRIP CORNERS ADJACENT TO PLANTING BED OR LAWN AREAS WILL HAVE 3/4" CHAMFER
 - CONTRACTOR SHALL PROVIDE 3" PREMOLDED POLYETHYLENE FOAM EXPANSION JOIN, FULL DEPTH WITH SILICONE SEALANT EVERY 30" O.C. UNLESS OTHERWISE NOTED.
 - CONTRACTOR SHALL USE EXTREME CAUTION AT ROOT ZONE OF EXISTING TREES TO REMAIN. CONTRACTOR SHALL CLEAN CUT ANY ROOTS OVER 2" DIA. THAT ARE EFFECTED BY THE SCOPE OF WORK. CONTRACTOR SHALL CONSULT ARBORIST PRIOR TO ANY ROOT REMOVAL.

4 CONCRETE MOW CURB AT FENCE
SCALE: N.T.S.



5 WOOD GUARDRAIL
SCALE: N.T.S.

No.	Date	Description

Revisions:

No.	Date	Description

COA:

Seal:
Professional Seal of Weston & Sampson Engineers, Inc.
Professional Engineer
No. 10000
State of Massachusetts
Exp. 12/31/2024

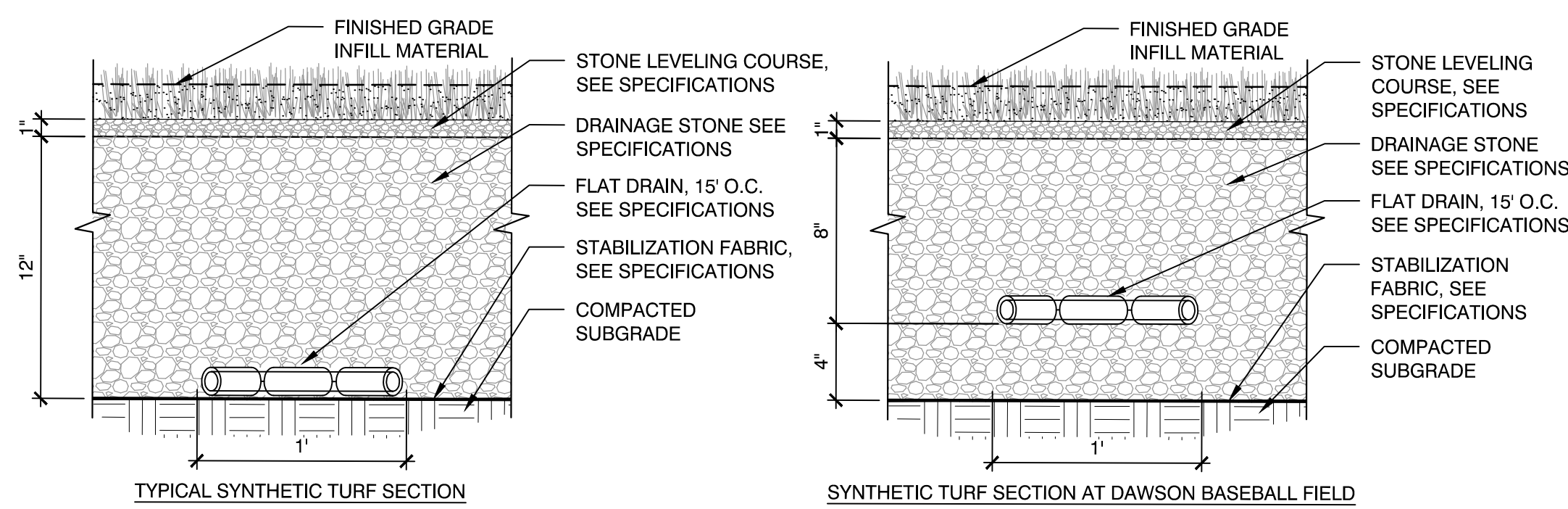
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Reviewed By: JM
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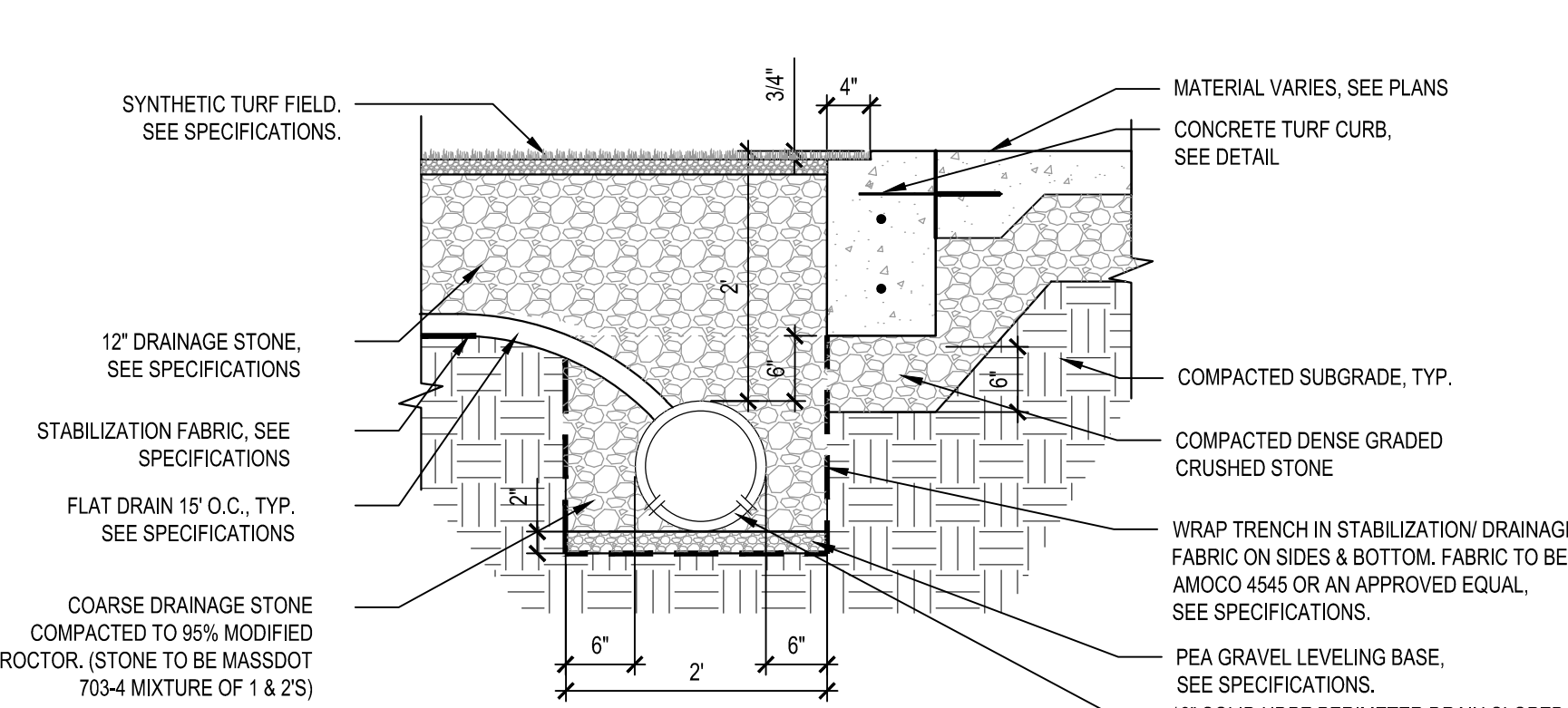
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Sheet Number:
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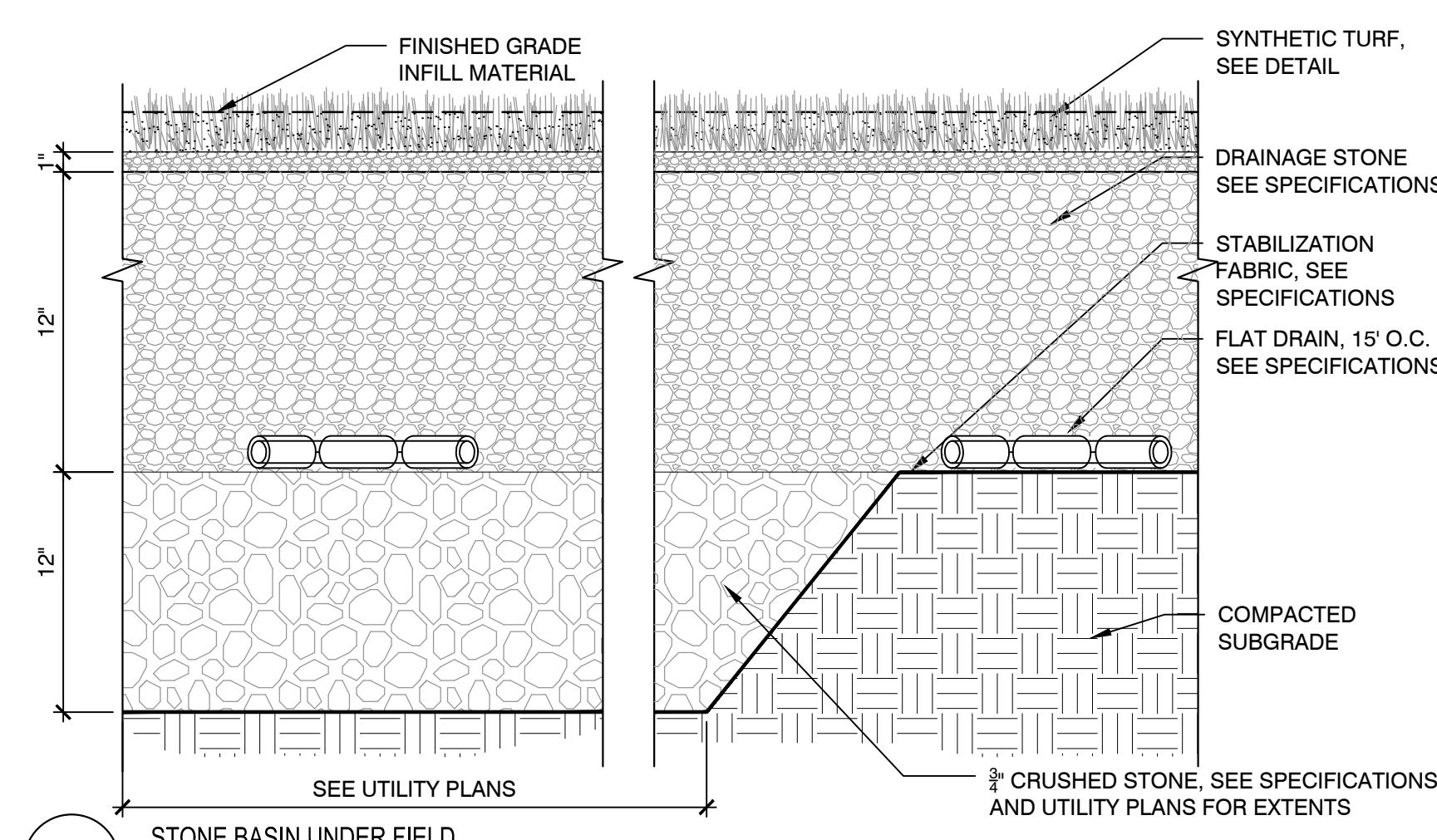
- NOTES:**
- SUBGRADE ELEVATIONS TO FOLLOW SAME SLOPE AS FINISHED SURFACE ELEVATIONS WITHIN TURF LIMITS.
 - ABSOLUTELY NO SUBSTITUTIONS SHALL BE ALLOWED FOR BOTH THE STONE LEVELING COURSE AND DRAINAGE STONE WITHOUT A WRITTEN AND SIGNED DOCUMENT DIRECTLY FROM THE TURF MANUFACTURER. DOCUMENT SHALL STATE: THE MATERIAL IS AN ACCEPTABLE MATERIAL TO BE USED DIRECTLY UNDER THEIR TURF FIELD FABRIC AND THAT THE SUBSTITUTION MATERIAL PROVIDES THE SAME CHARACTERISTICS (DRAINAGE, STRUCTURAL INTEGRITY, PLAYABILITY, ETC.) AS THE MATERIALS SPECIFIED. FAILURE TO PROVIDE SUCH A DOCUMENT SHALL BE AT THE RISK AND COST OF THE CONTRACTOR.

1 SYNTHETIC TURF
SCALE: N.T.S.

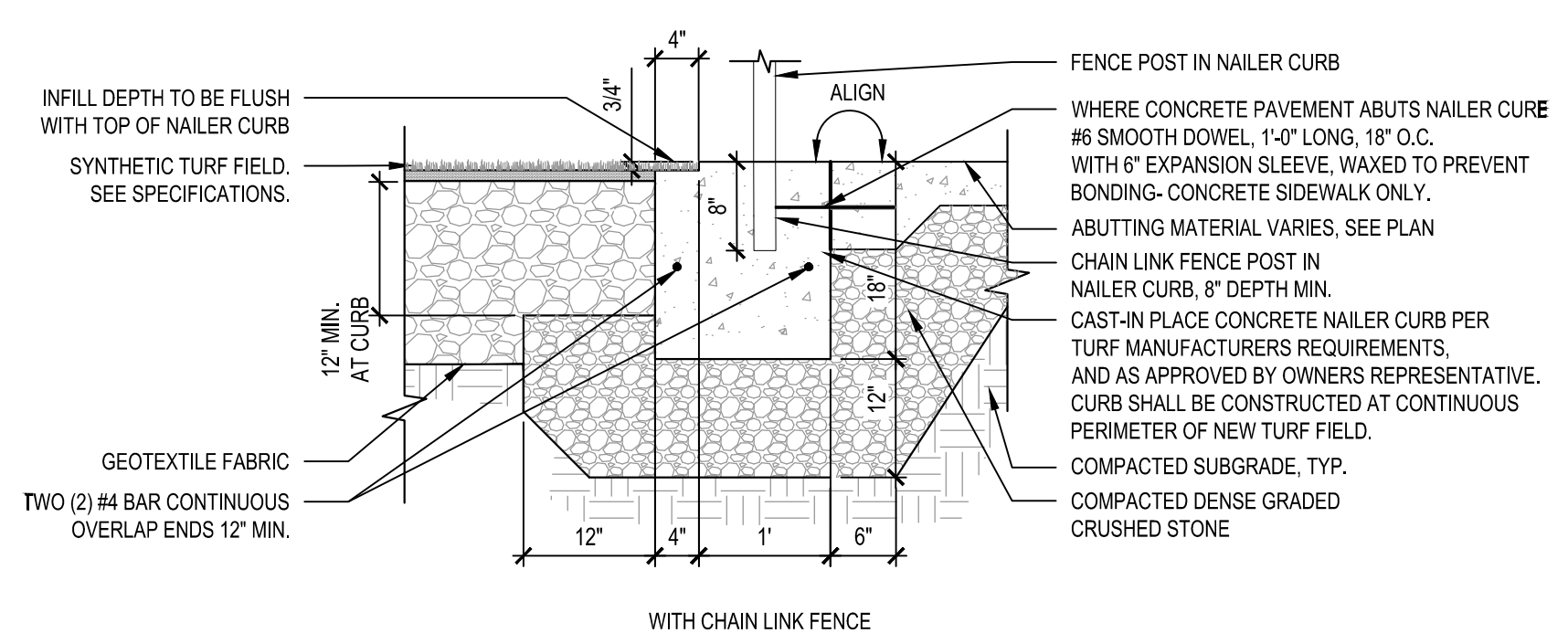


- NOTES:**
- FLAT DRAIN TO BE DIRECTLY CONNECTED TO PERIMETER DRAIN. PROVIDE MANUFACTURED FITTINGS TO MAKE THE CONNECTION AS REQUIRED AND APPROVED BY THE OWNER'S REPRESENTATIVE.
 - CONCRETE NAILER CURB TO BE 4,500 PSI AT 28 DAYS, (AIR CONTENT 6% +/- 1%) (COARSE AGGREGATE ASTM C-33 SIZE #57)

2 COLLECTOR DRAIN AT SYNTHETIC TURF
SCALE: N.T.S.

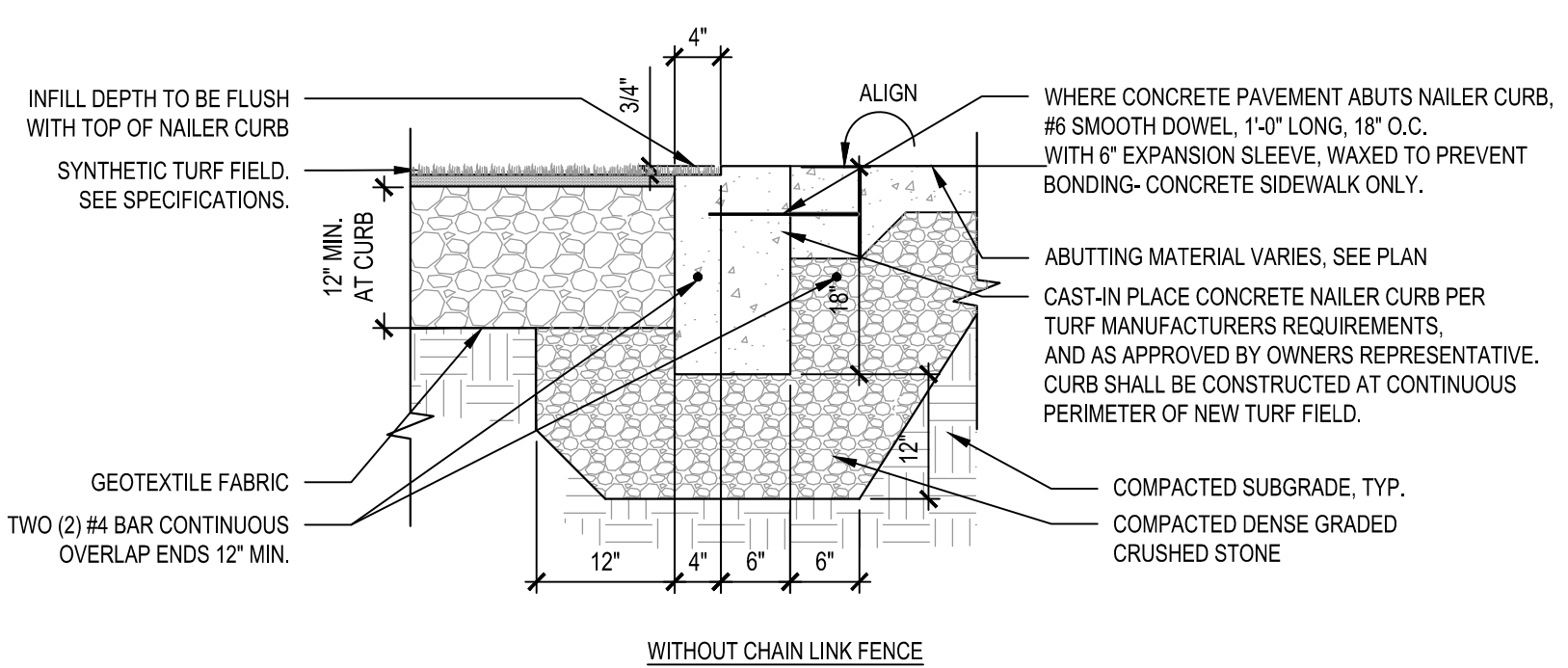


3 STONE BASIN UNDER FIELD
SCALE: N.T.S.

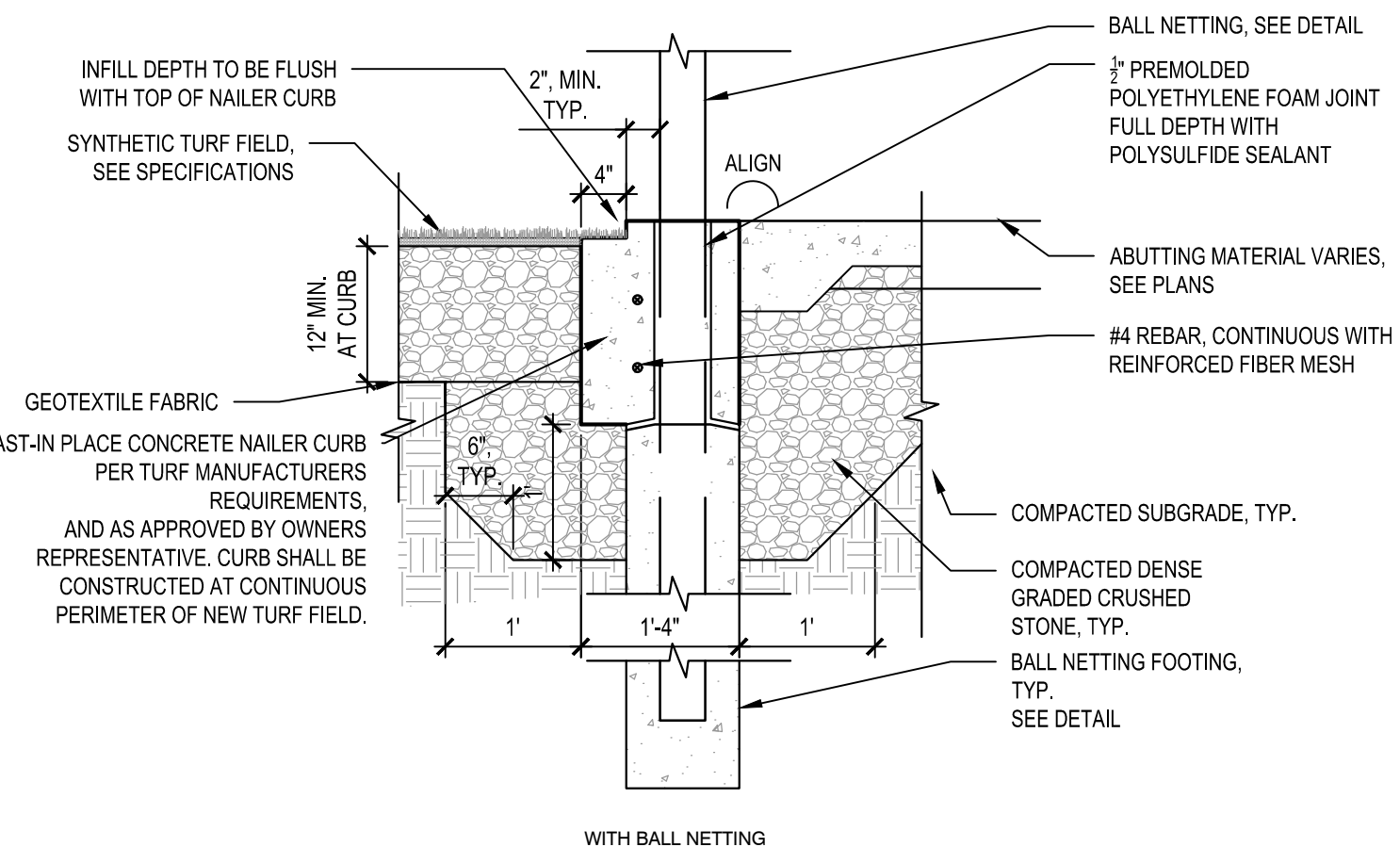


- NOTES:**
- CONTRACTOR TO PROVIDE CONTROL JOINTS (PREFORMED OR SAWCUT) 10' O.C. MIN. 1/2\"/>
 - CONTRACTOR TO PROVIDE EXPANSION JOINTS EVERY 40' O.C.

4 CONCRETE TURF CURB
SCALE: N.T.S.

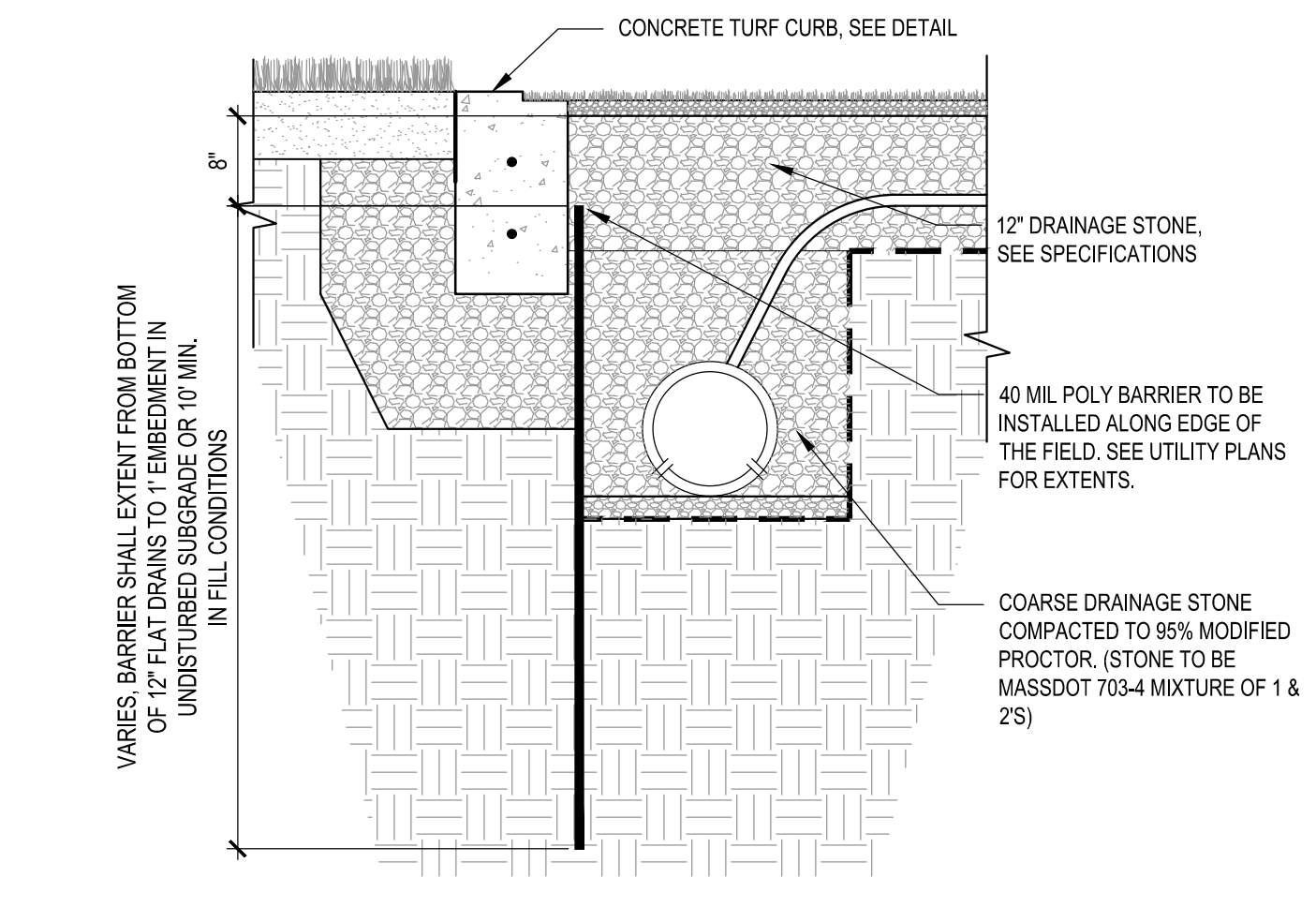


- NOTES:**
- CONTRACTOR TO PROVIDE CONTROL JOINTS (PREFORMED OR SAWCUT) 10' O.C. MIN. 1/2\"/>
 - CONTRACTOR TO PROVIDE EXPANSION JOINTS EVERY 40' O.C.



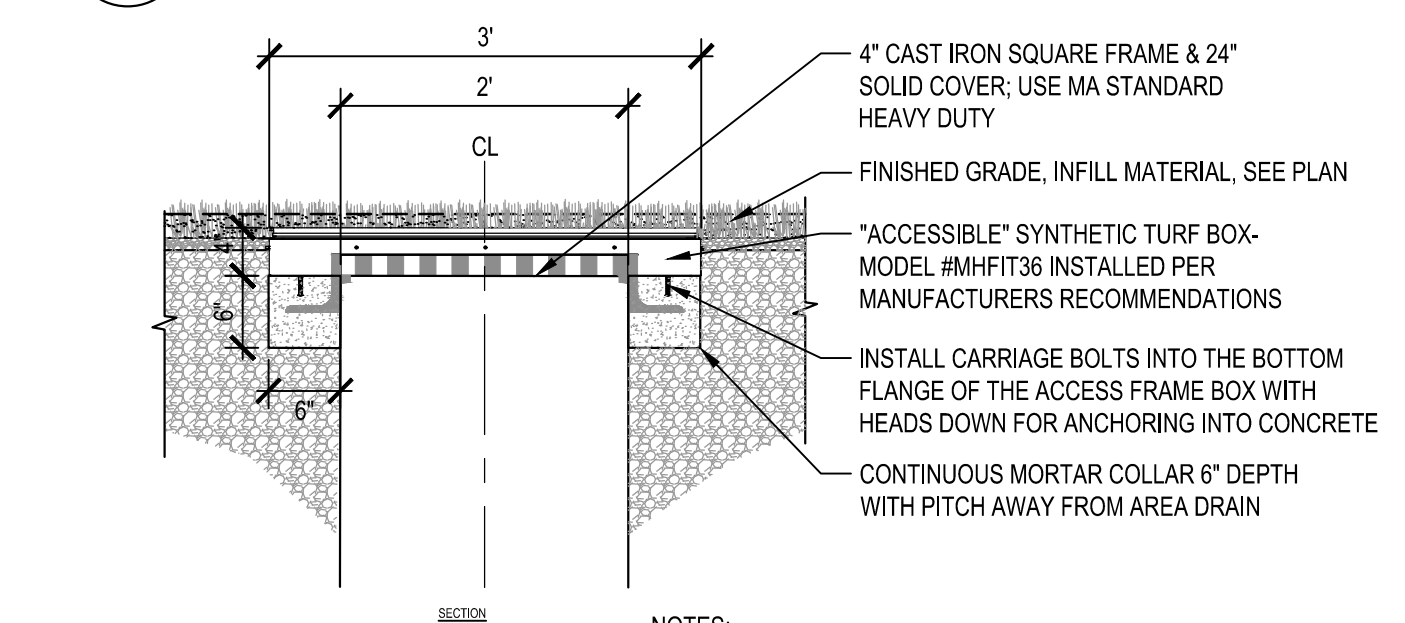
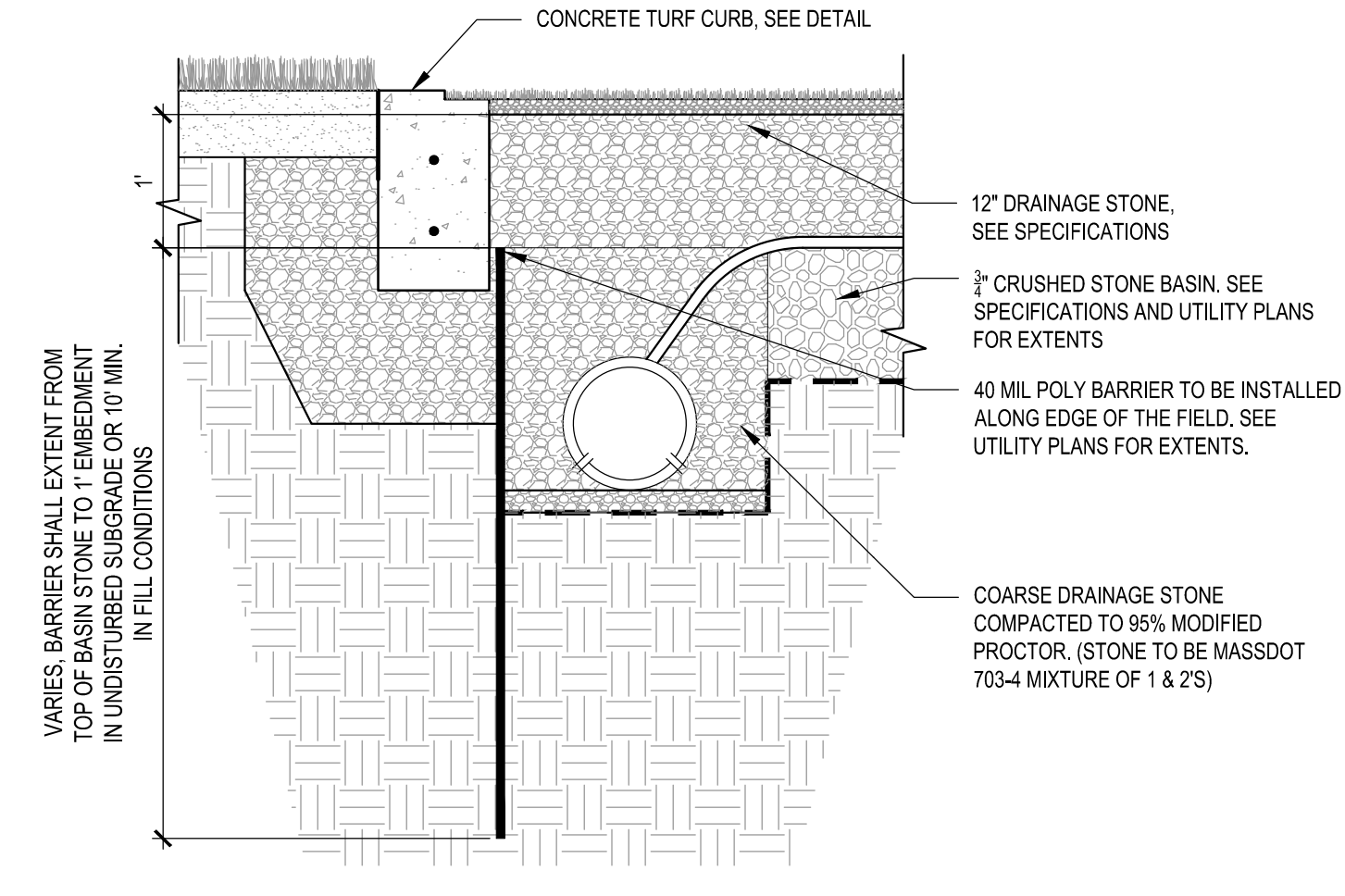
- NOTES:**
- CONTRACTOR TO PROVIDE CONTROL JOINTS (PREFORMED OR SAWCUT) 10' O.C. MIN. 1/2\"/>
 - CONTRACTOR TO PROVIDE EXPANSION JOINTS EVERY 40' O.C.

4 CONCRETE TURF CURB
SCALE: N.T.S.



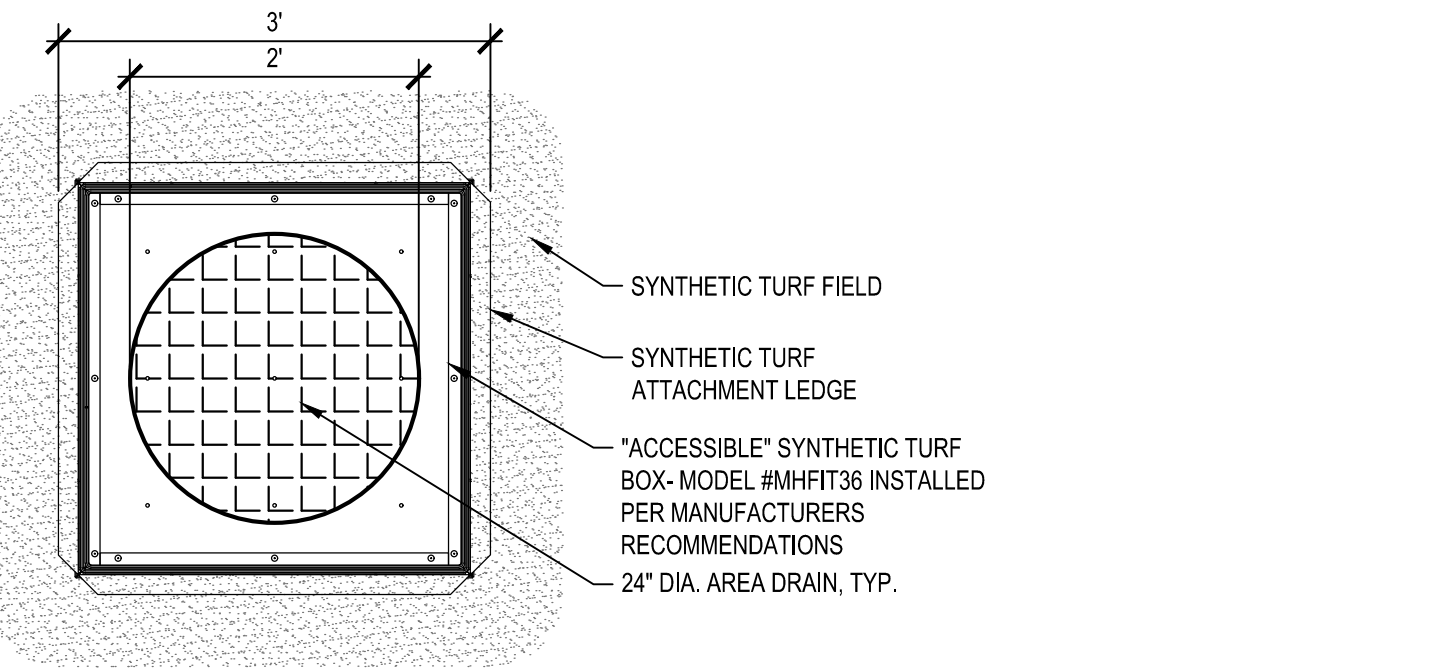
- NOTE:**
- IMPERMEABLE 40 MIL POLY BARRIER SHALL BE PLACED ALONG PERIMETER OF FIELD WHERE THE SURROUNDING GRADES ARE 15% OR GREATER.

5 IMPERMEABLE BARRIER AT FIELD
SCALE: N.T.S.

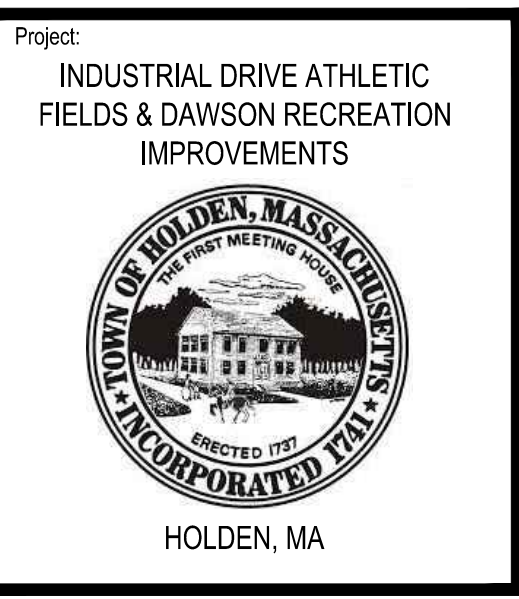
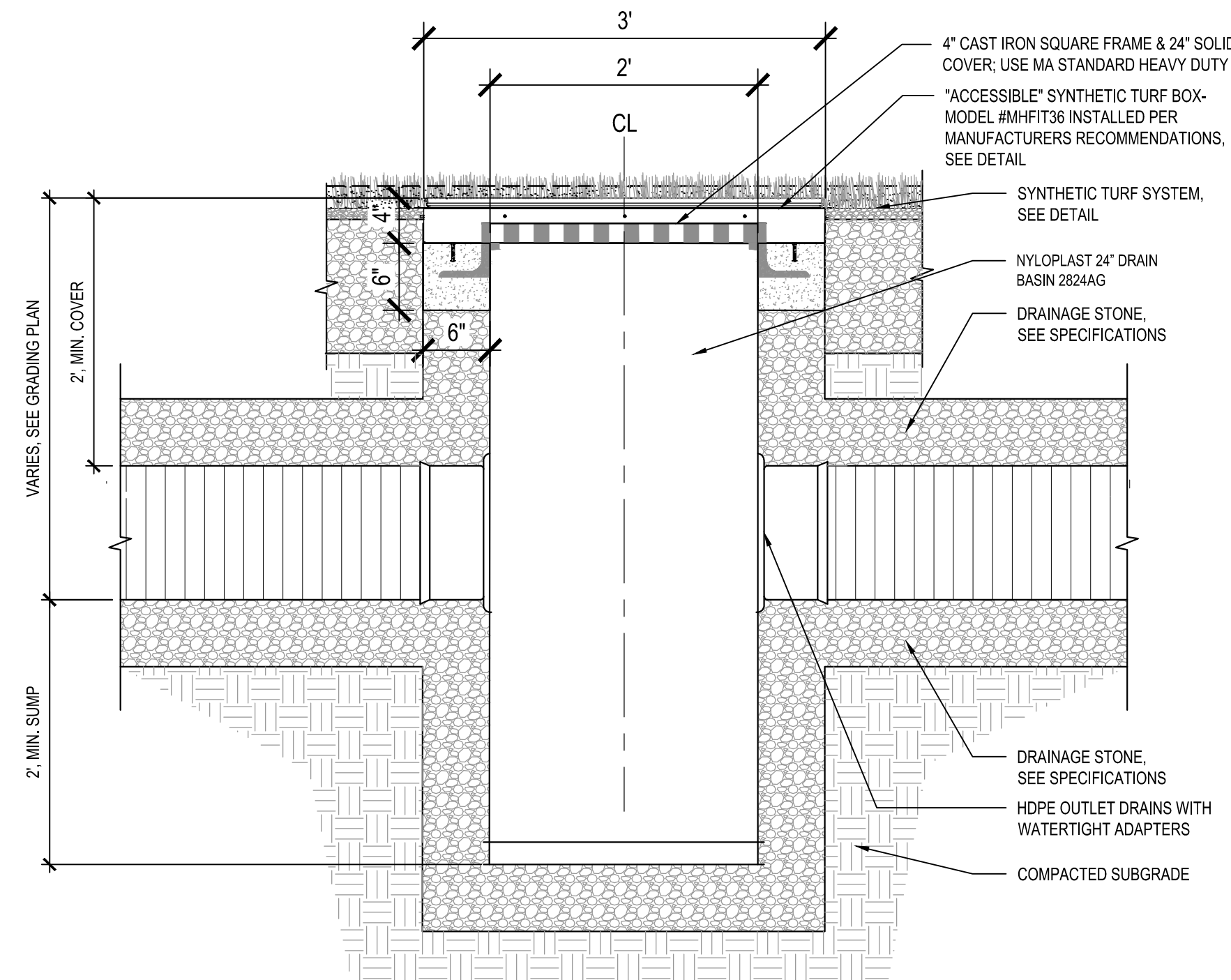


- NOTES:**
- SYNTHETIC TURF CAN BE CUT AND SECURED TO THE PROVIDED TURF ATTACHMENT LEDGE PER MANUFACTURERS DIRECTIONS.
 - CONTRACTOR SHALL CONFIRM SIZE AND EXACT MODEL NUMBER WITH MANUFACTURER PRIOR TO ORDERING.

6 SYNTHETIC TURF BOX COVER
SCALE: N.T.S.



7 AREA DRAIN IN FIELD
SCALE: N.T.S.



Weston & Sampson
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www.westonandsampson.com

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No.	Date	Description

Revisions:

No.	Date	Description

COA:



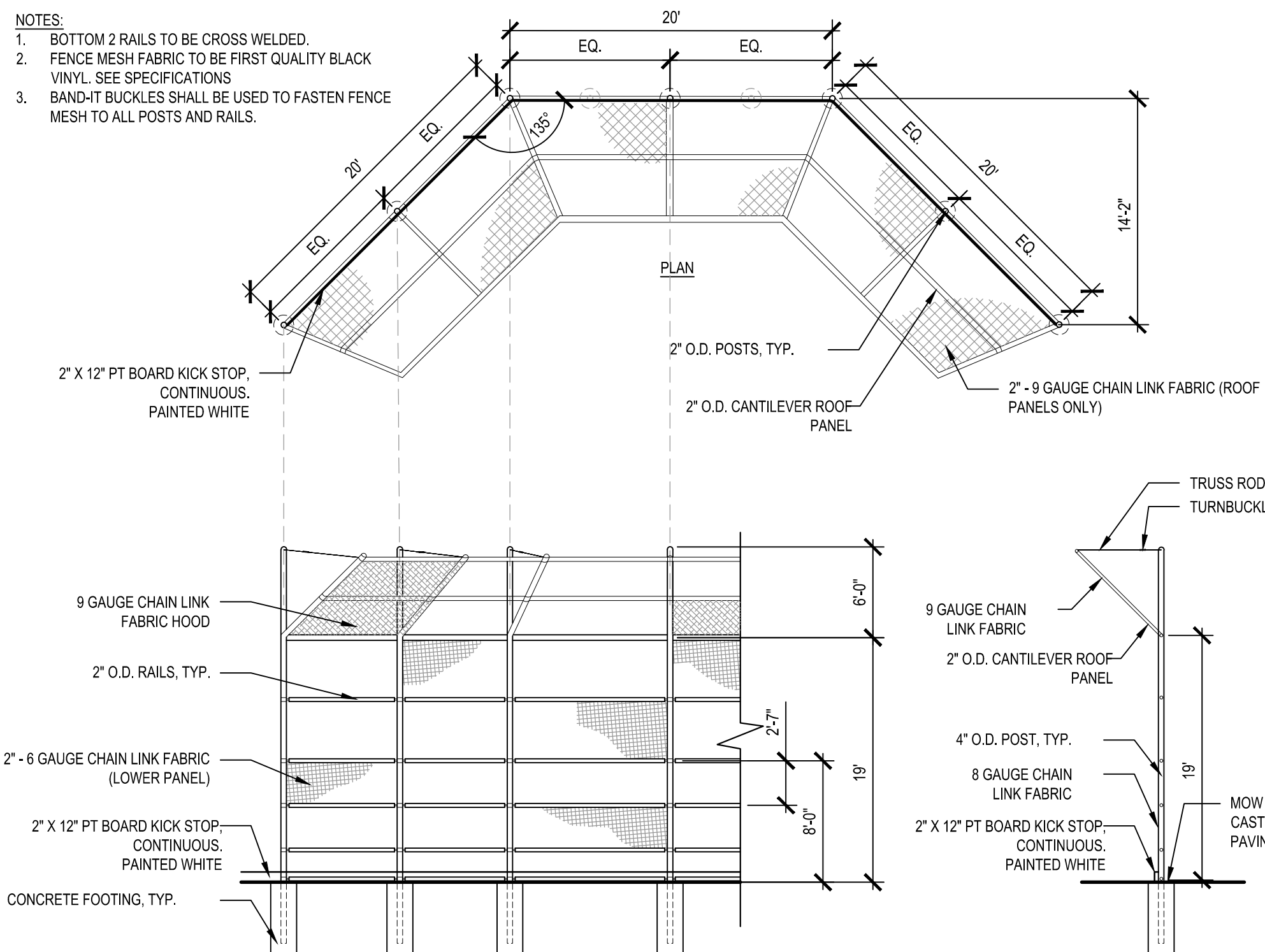
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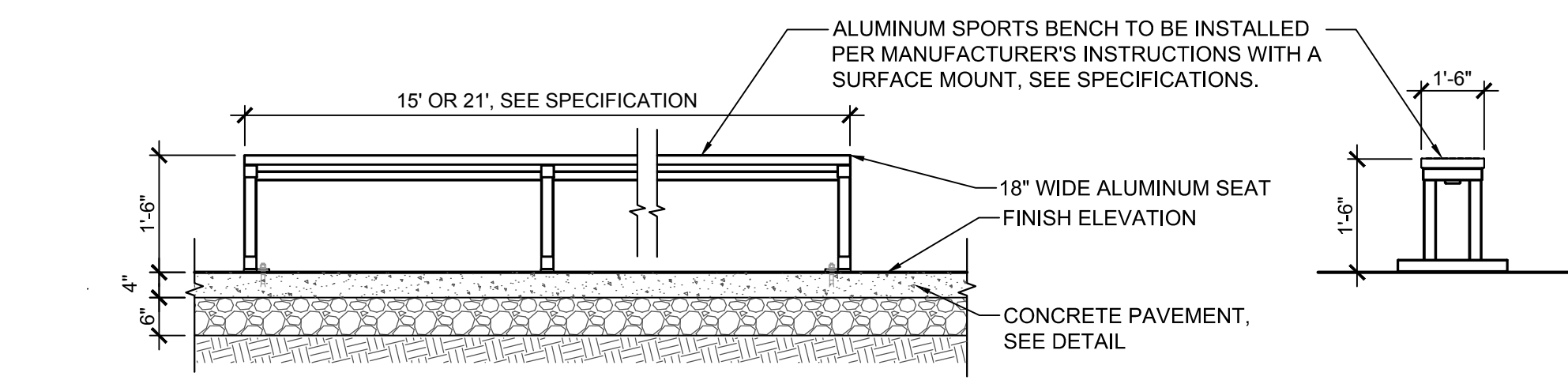
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Drawn By: AG, KH
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Approved By: BK
W&S Project No.: ENG22 - 0852
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LANDSCAPE DETAILS
Sheet Number:
L705

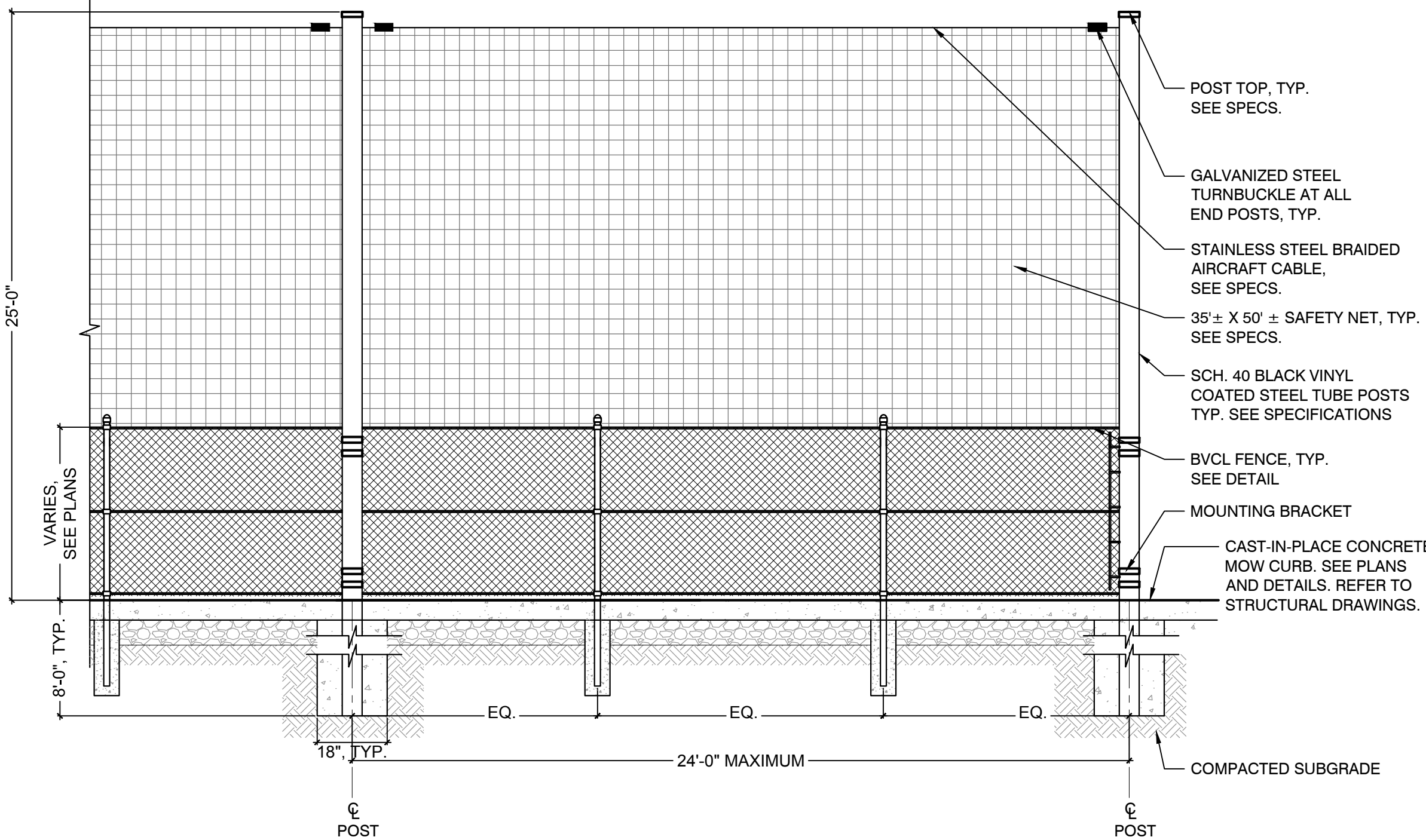
- NOTES:
 1. BOTTOM 2 RAILS TO BE CROSS WELDED.
 2. FENCE MESH FABRIC TO BE FIRST QUALITY BLACK VINYL. SEE SPECIFICATIONS.
 3. BAND-IT BUCKLES SHALL BE USED TO FASTEN FENCE MESH TO ALL POSTS AND RAILS.



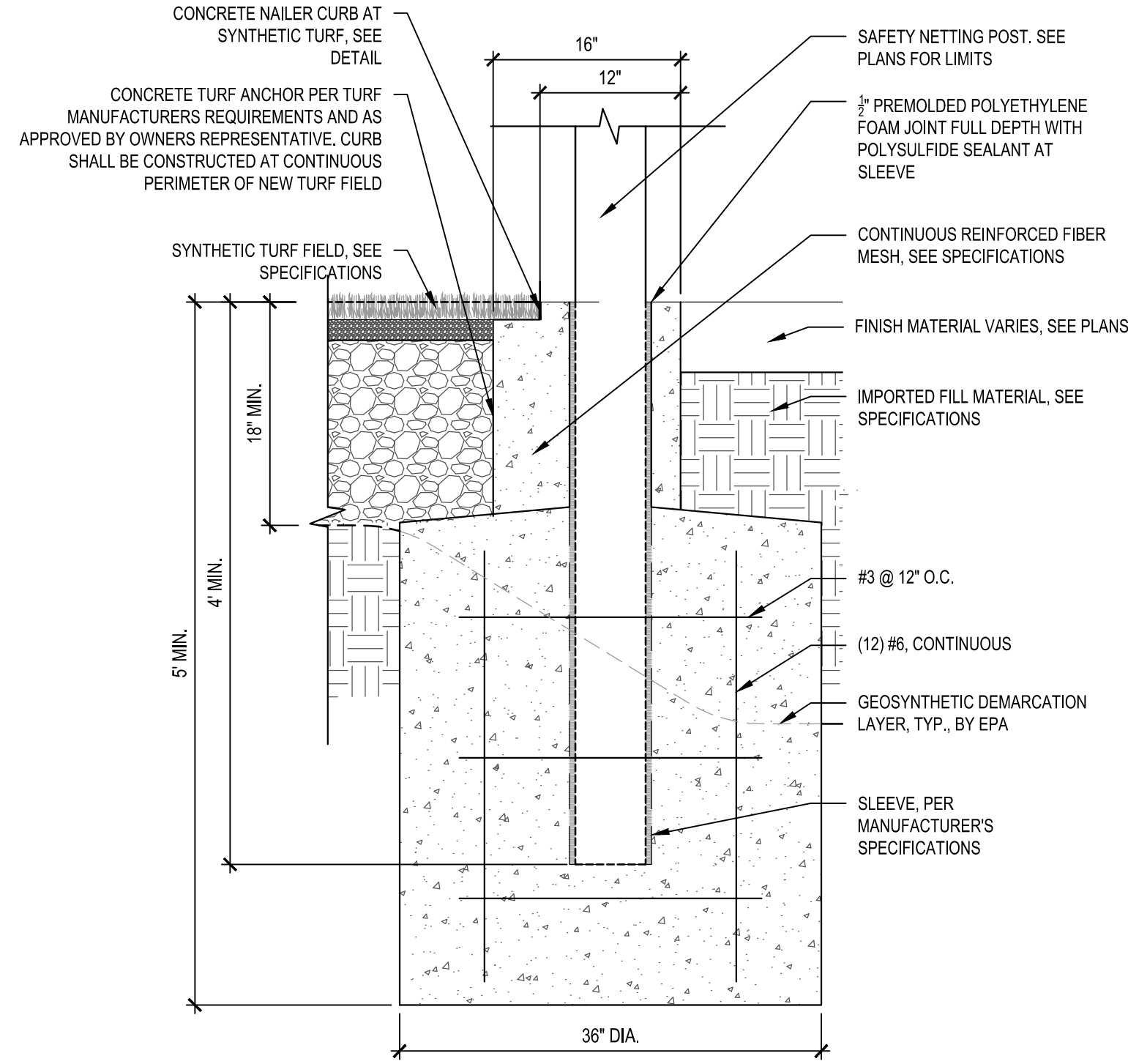
1 BASEBALL BACKSTOP
 SCALE: N.T.S.



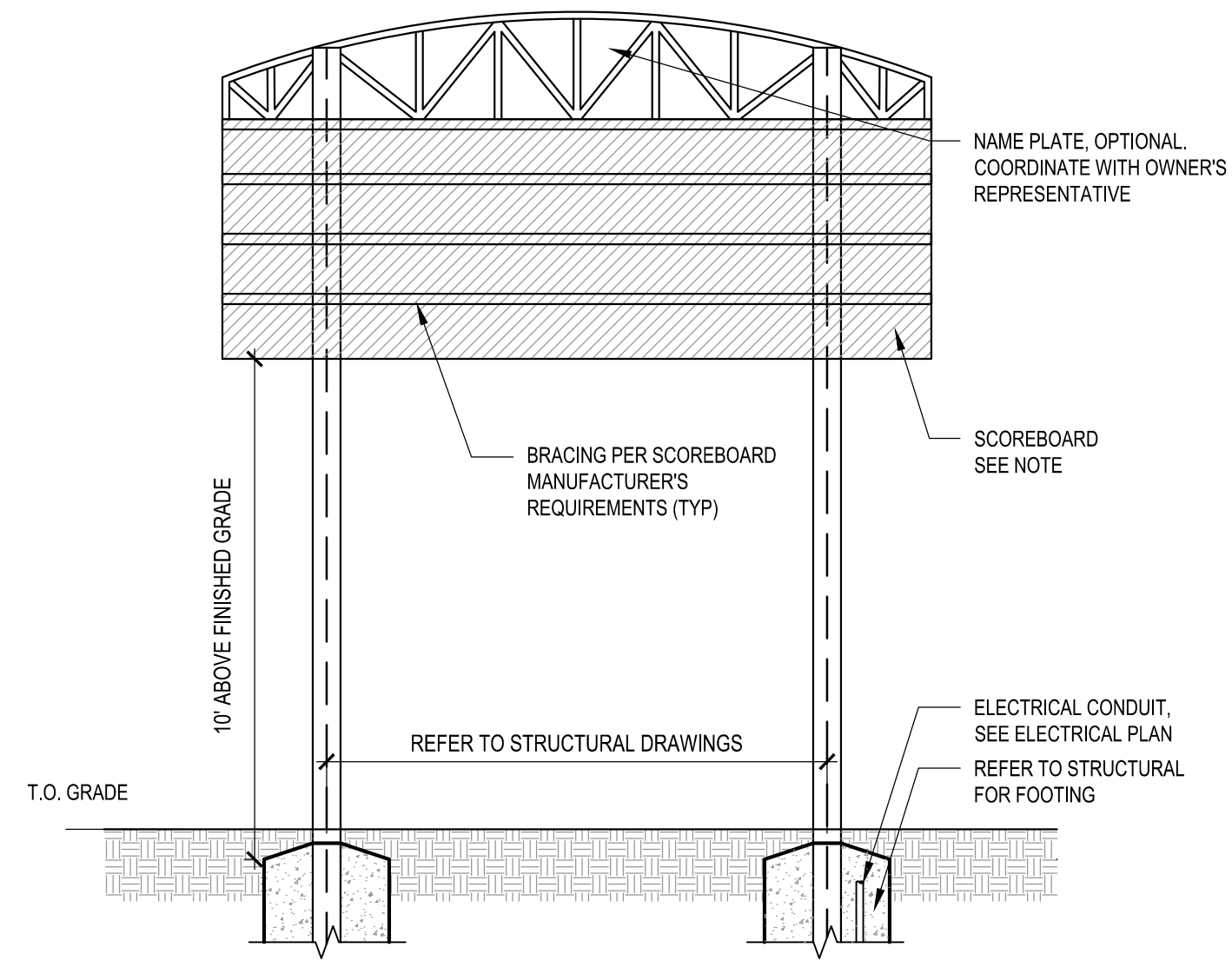
5 TEAM BENCH
 SCALE: N.T.S.



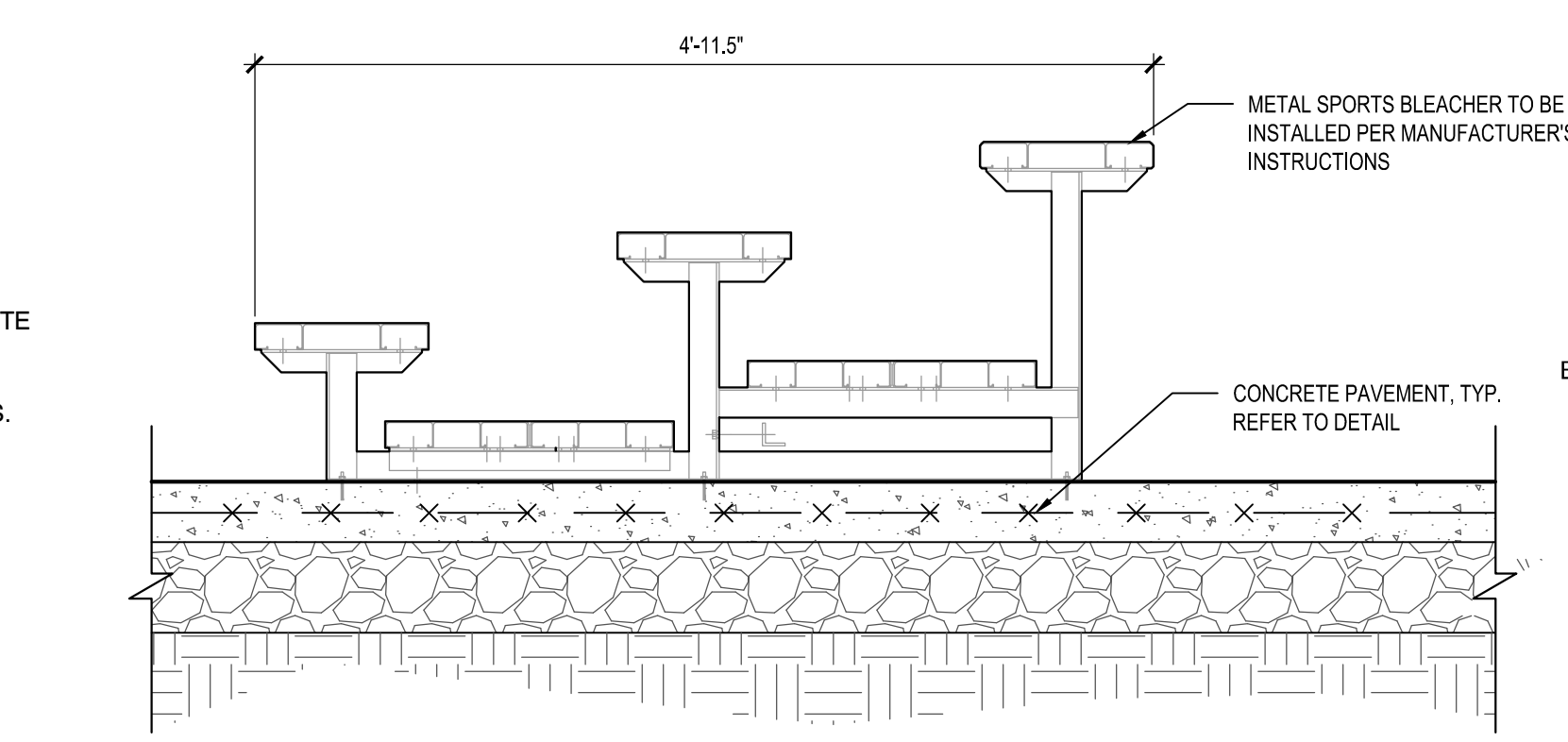
7 SAFETY NETTING
 SCALE: N.T.S.



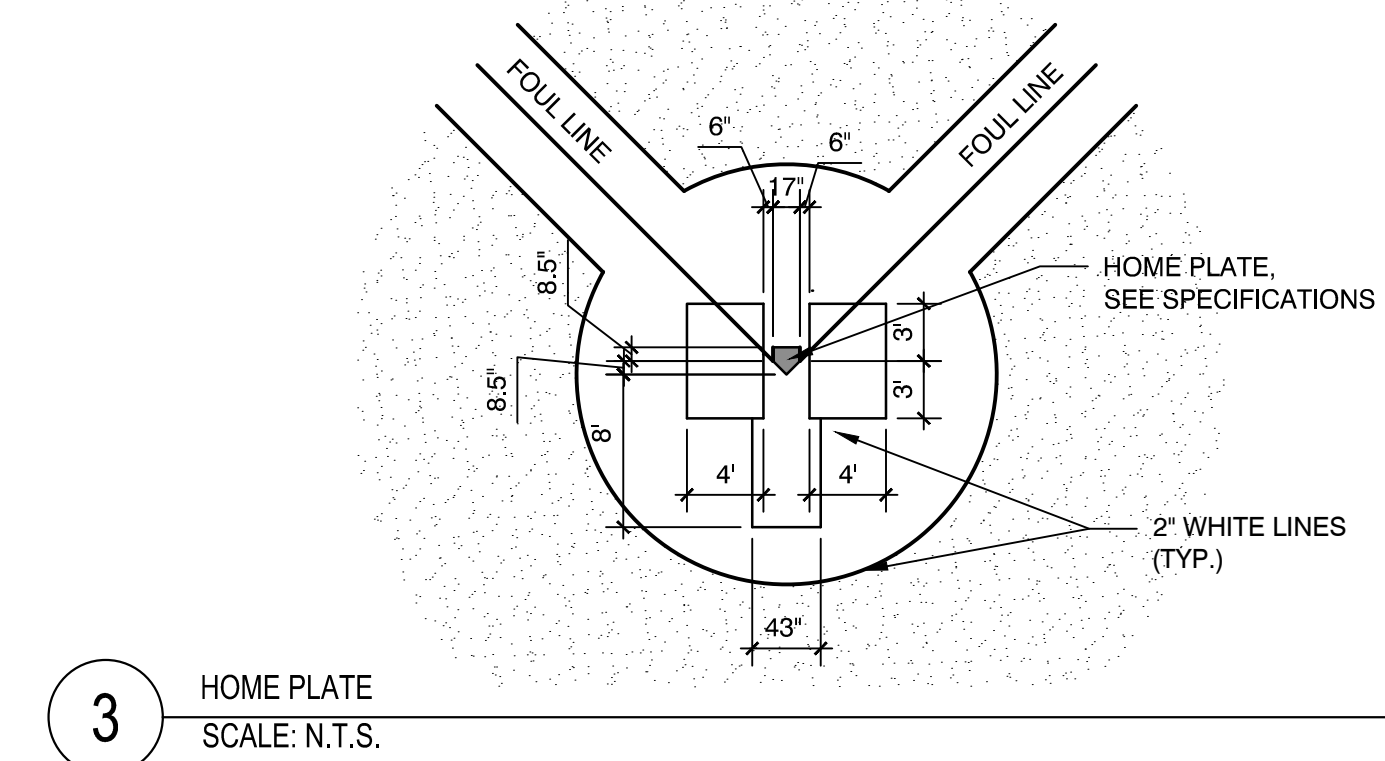
2 SPORTS NETTING FOOTING
 SCALE: N.T.S.



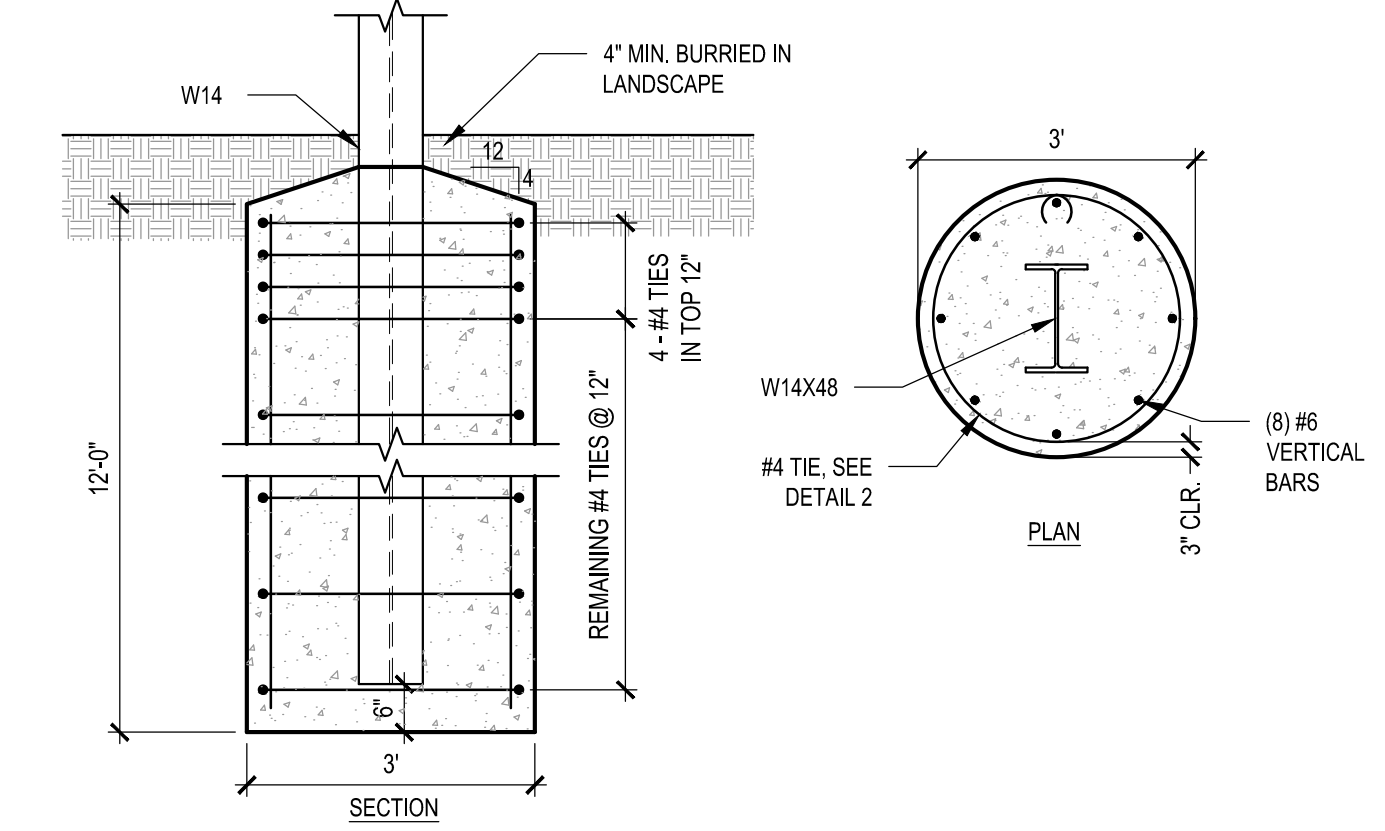
6 SCOREBOARD
 SCALE: N.T.S.



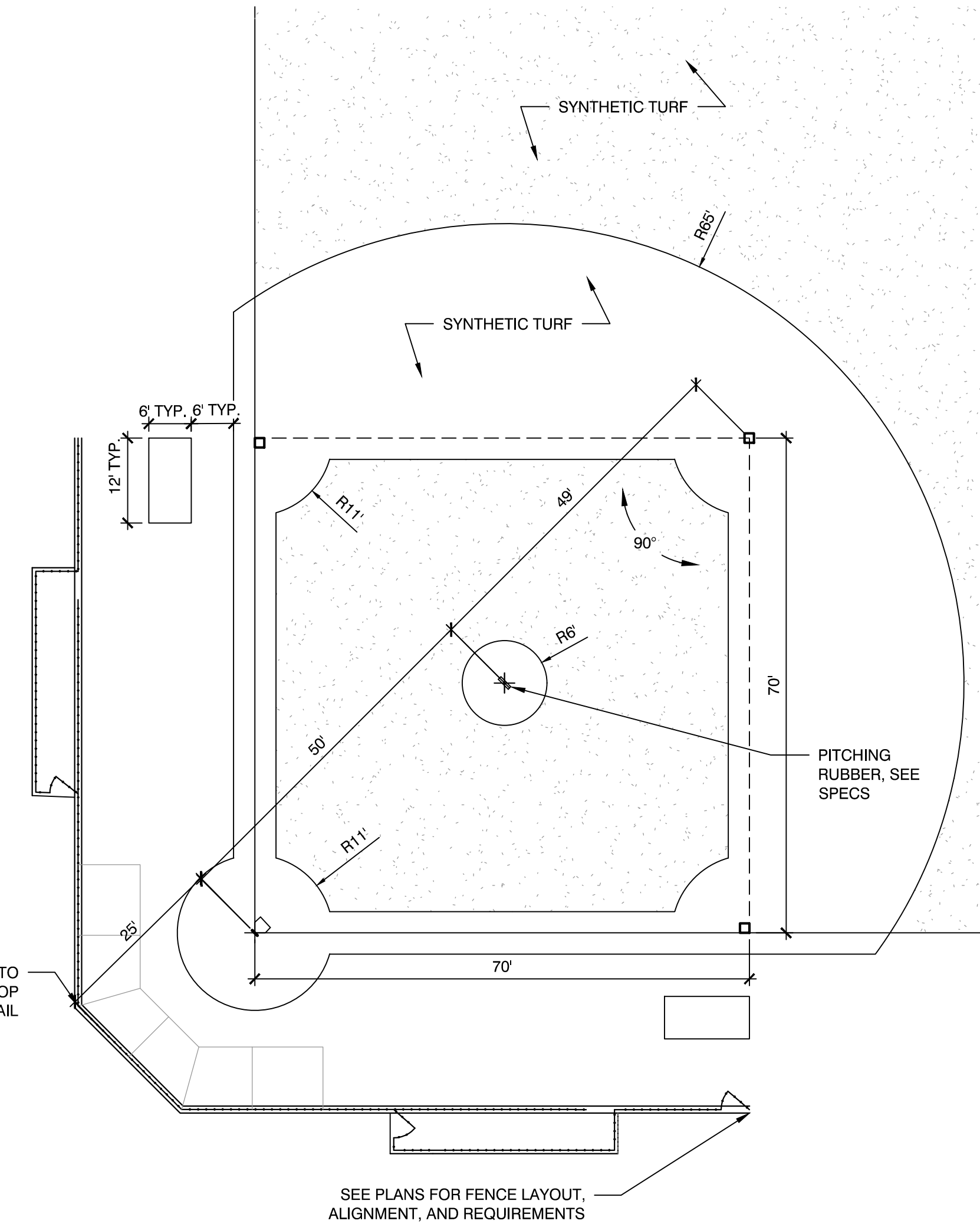
8 BLEACHER SEATING
 SCALE: N.T.S.



3 HOME PLATE
 SCALE: N.T.S.



4 SCOREBOARD FOOTING
 SCALE: N.T.S.



9 INTERMEDIATE BASEBALL FIELD LAYOUT
 SCALE: N.T.S.

Consultants:

No.	Date	Description

Revisions:

No.	Date	Description

COA:



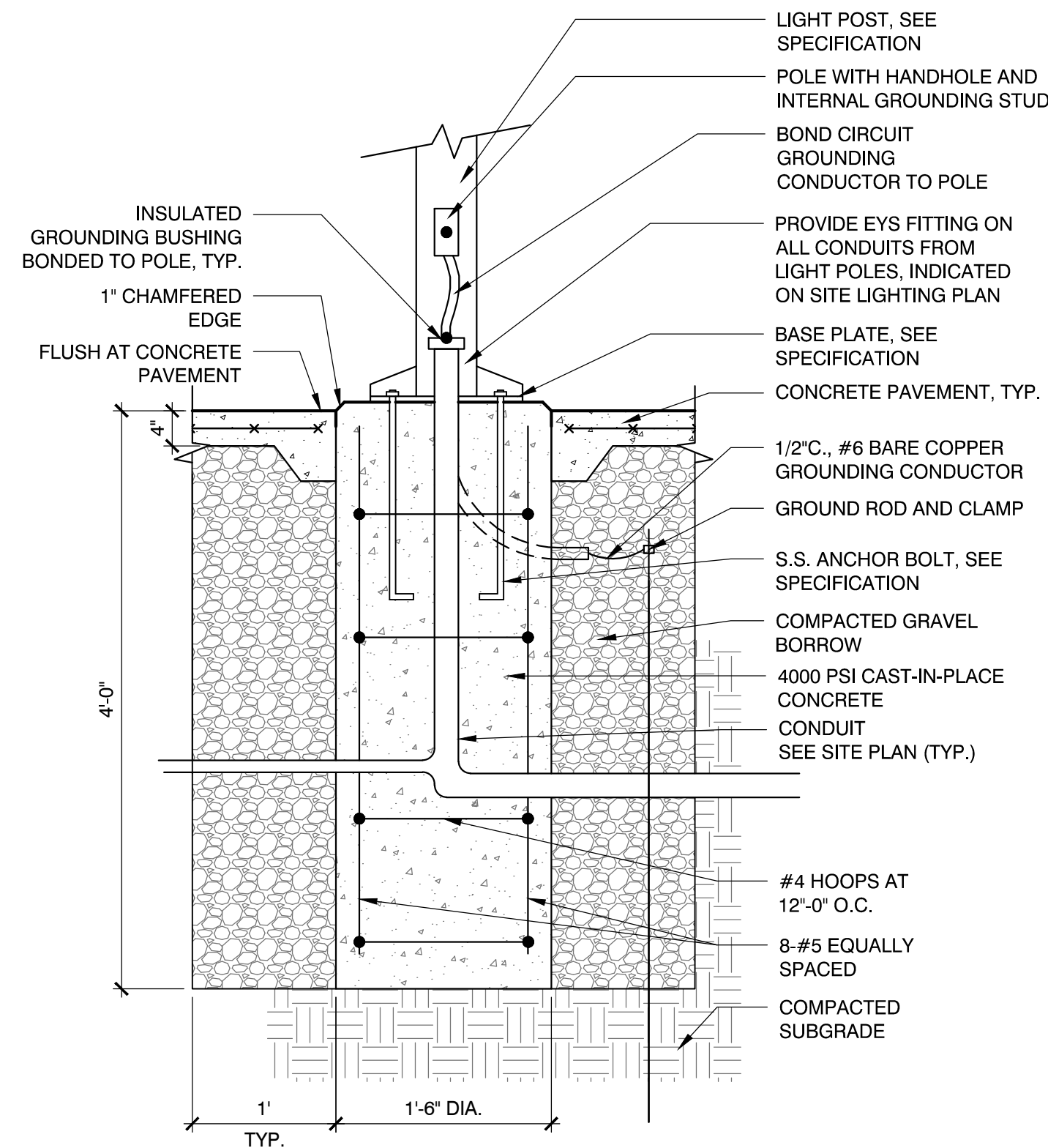
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CONSTRUCTION DOCUMENTS

Scale:

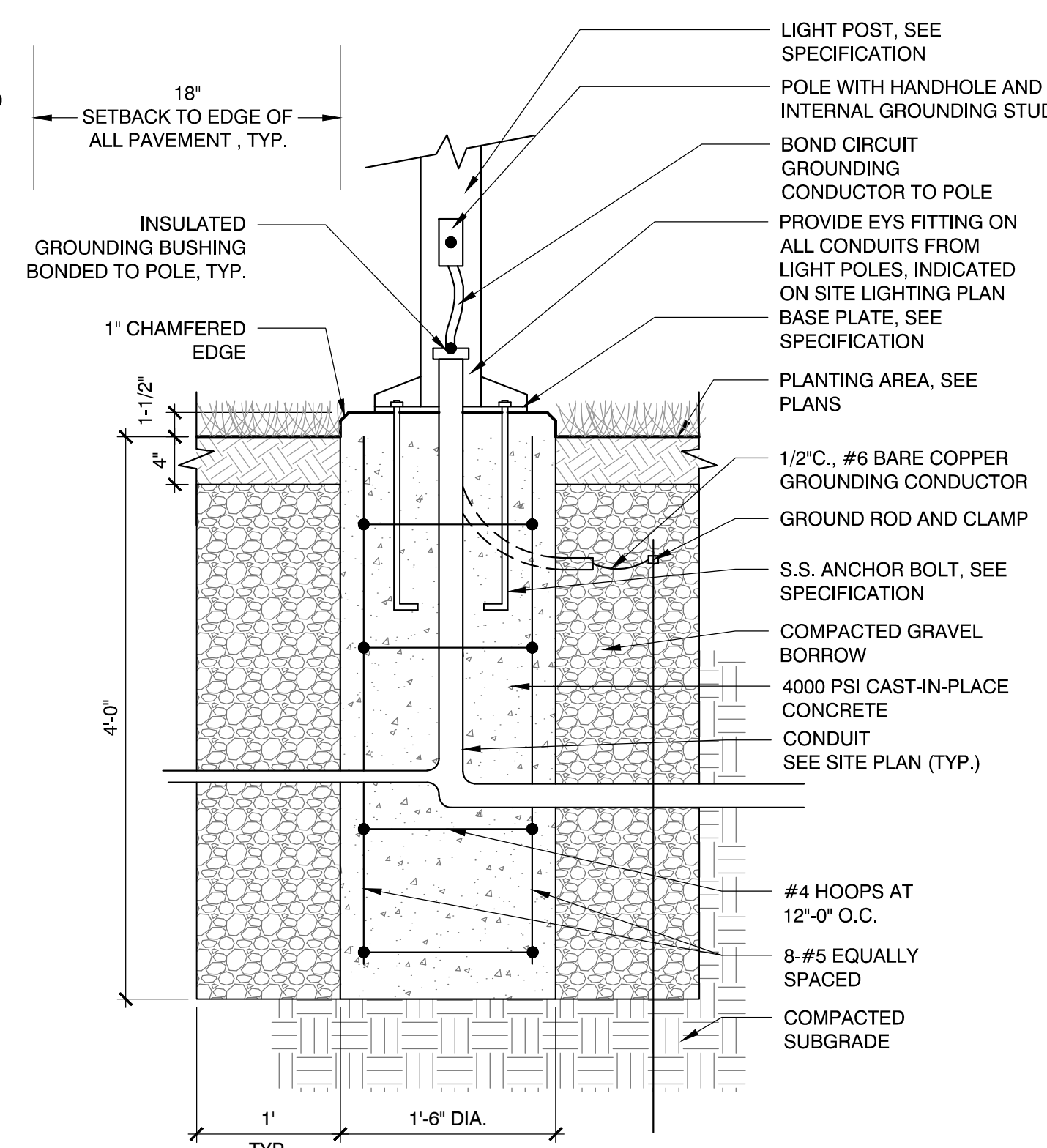
Date: 02/14/2024
 Drawn By: AG, KH
 Reviewed By: JM
 Approved By: BK
 W&S Project No.: ENG22 - 0852
 W&S File No.:

Drawing Title:
LANDSCAPE DETAILS

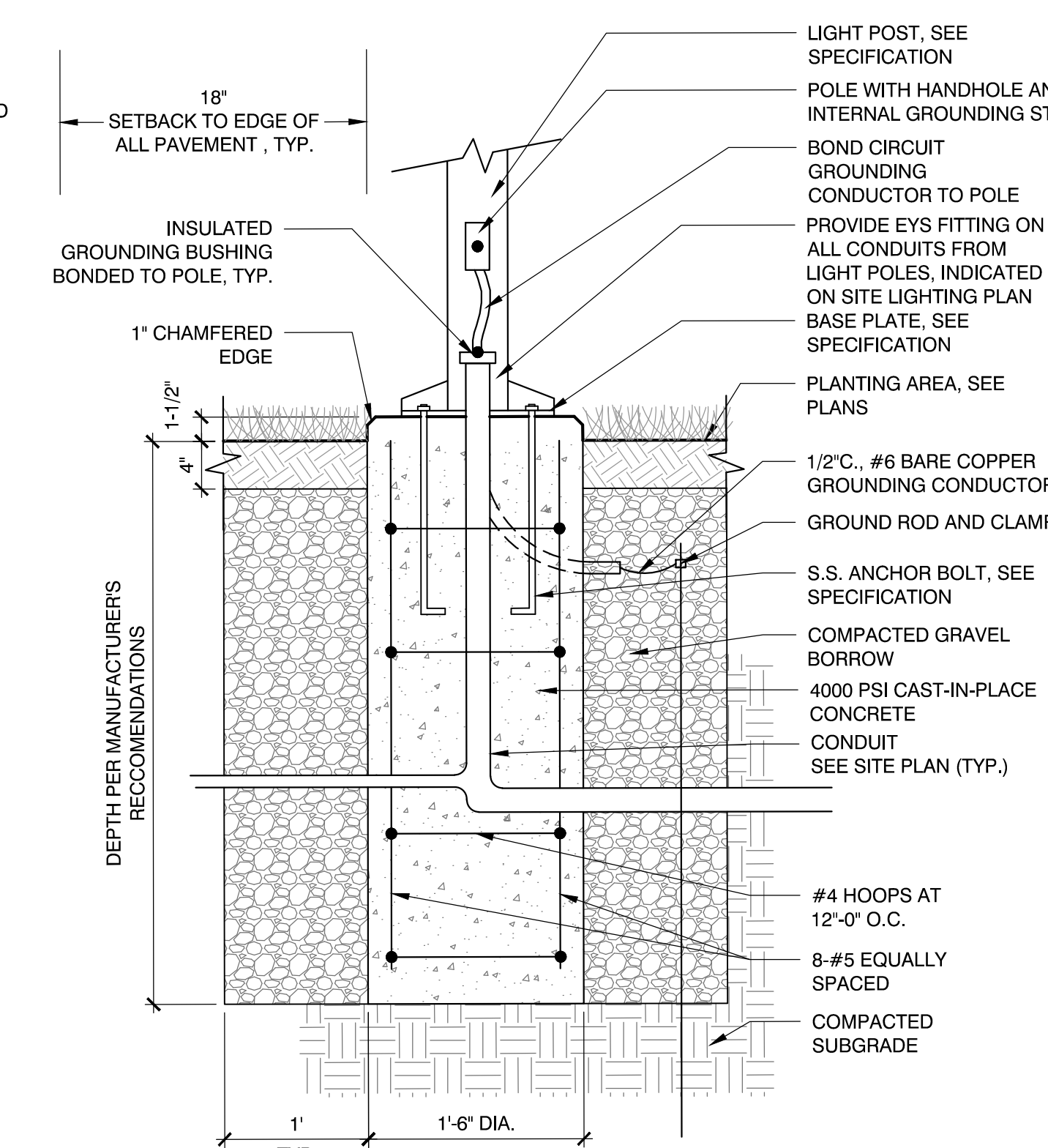
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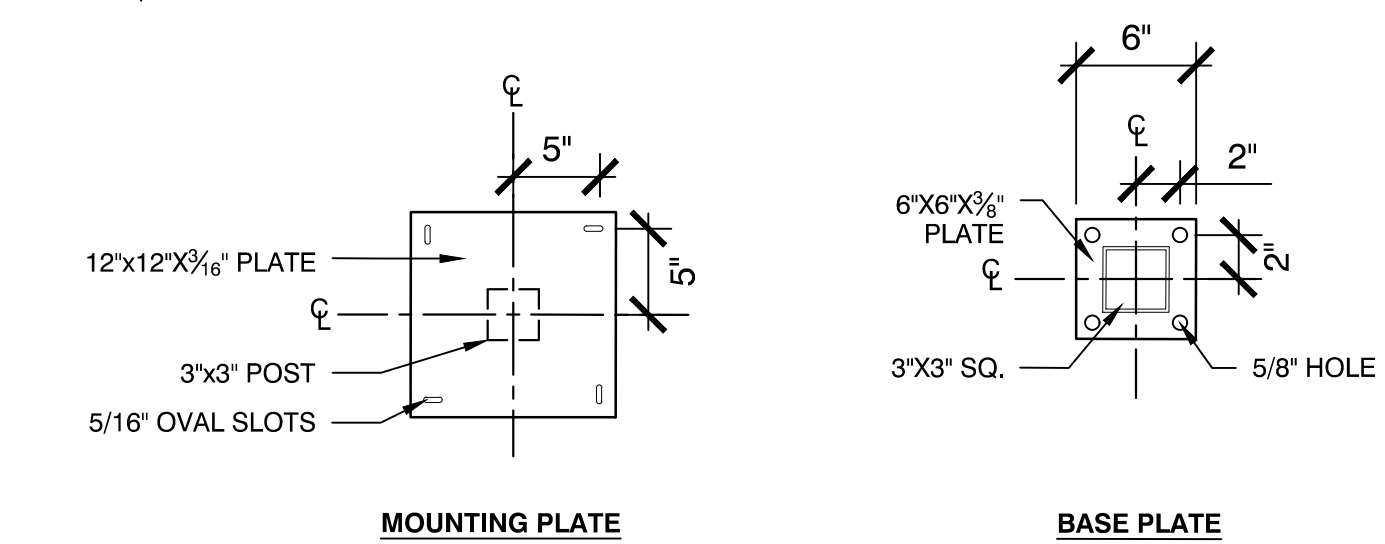
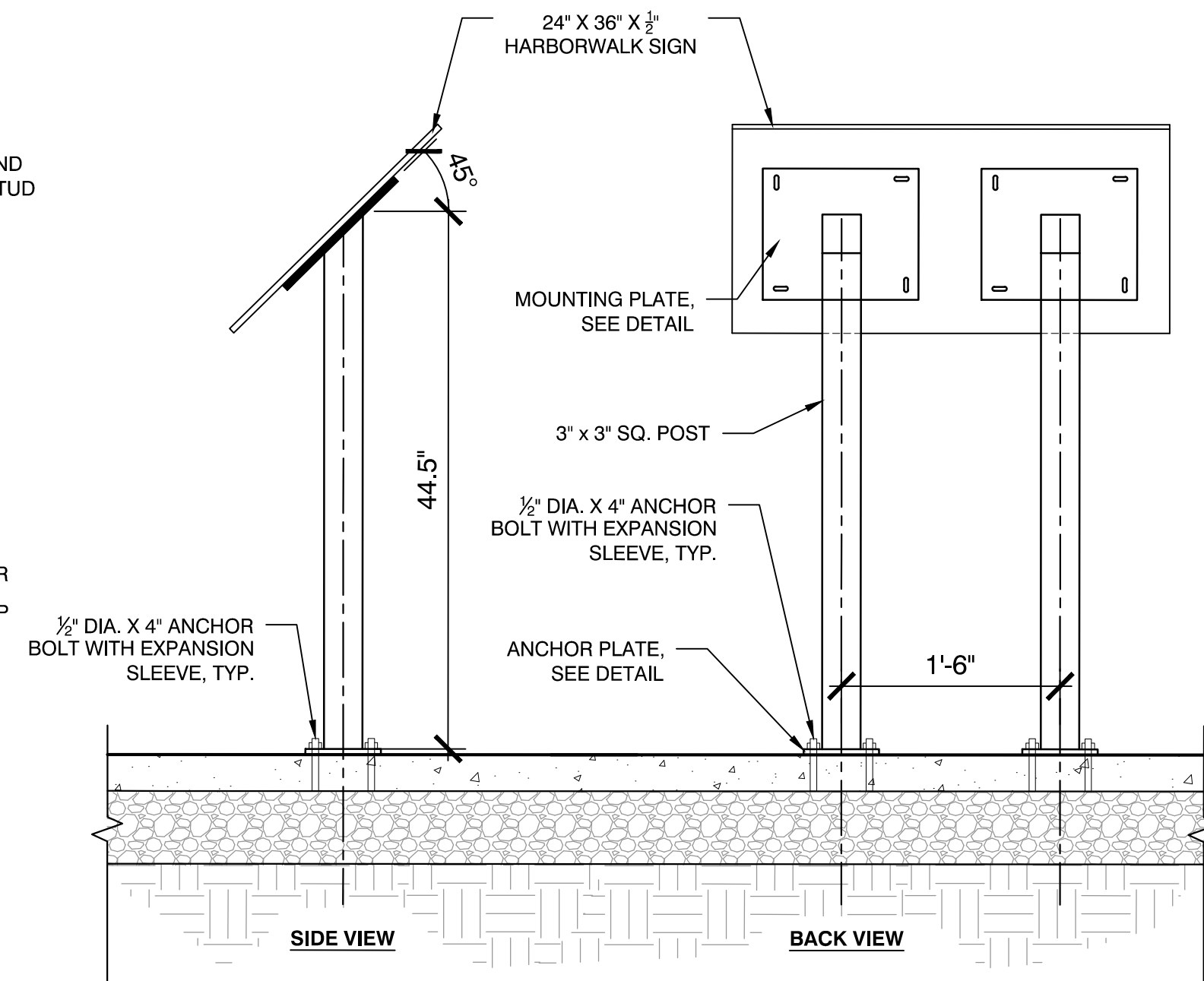
- NOTE:
1. FOOTING TO BE DESIGNED BY ELECTRICAL CONTRACTOR
 2. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR. ALL EXCAVATION, BACKFILL, & CONCRETE SHALL BE BY GENERAL CONTRACTOR.
 3. REFER TO SPECIFICATIONS FOR MATERIALS.



- NOTE:
1. FOOTING TO BE DESIGNED BY ELECTRICAL CONTRACTOR
 2. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR. ALL EXCAVATION, BACKFILL, & CONCRETE SHALL BE BY GENERAL CONTRACTOR.
 3. REFER TO SPECIFICATIONS FOR MATERIALS.



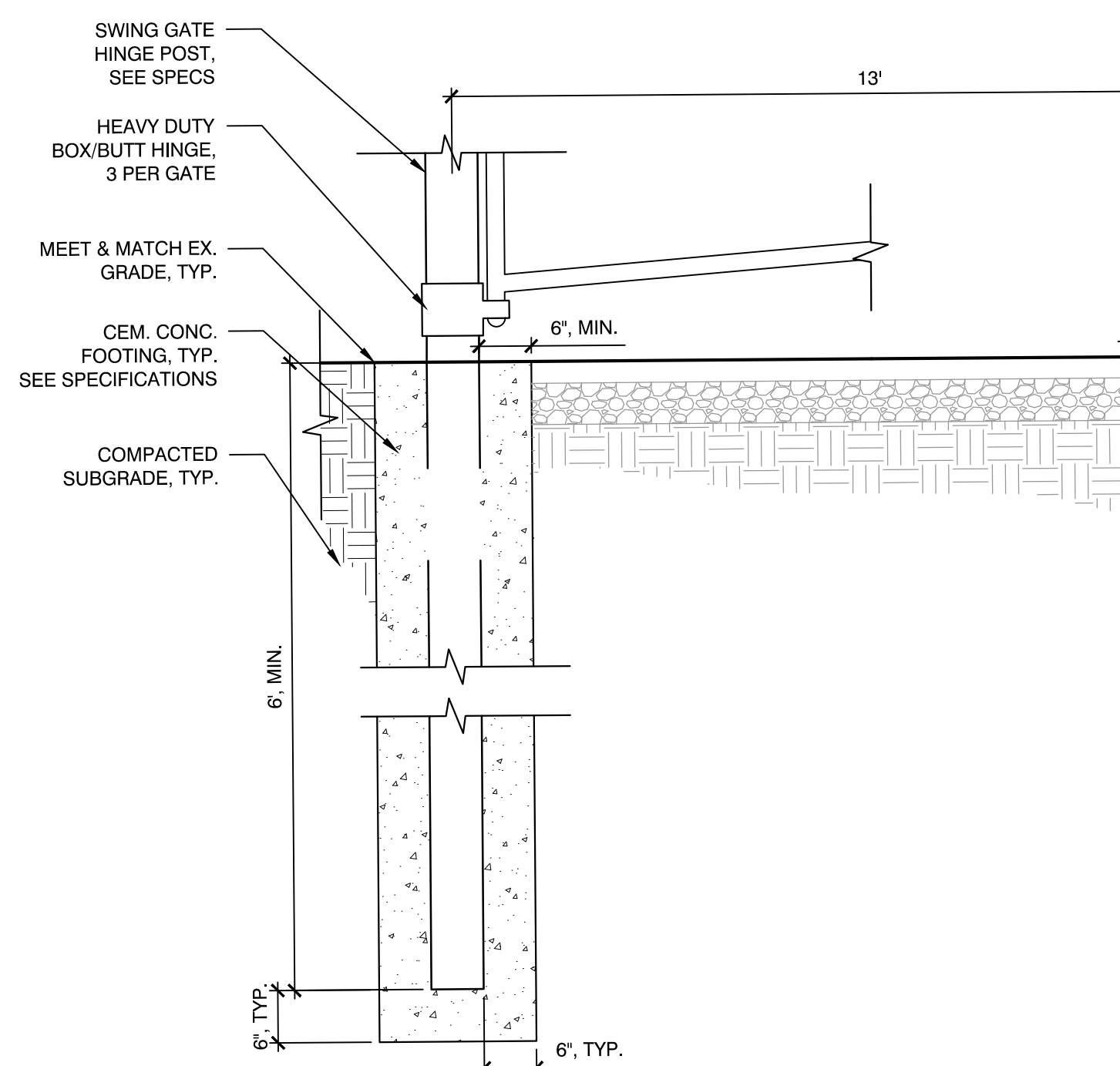
- NOTE:
1. FOOTING TO BE DESIGNED BY ELECTRICAL CONTRACTOR
 2. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR. ALL EXCAVATION, BACKFILL, & CONCRETE SHALL BE BY GENERAL CONTRACTOR.
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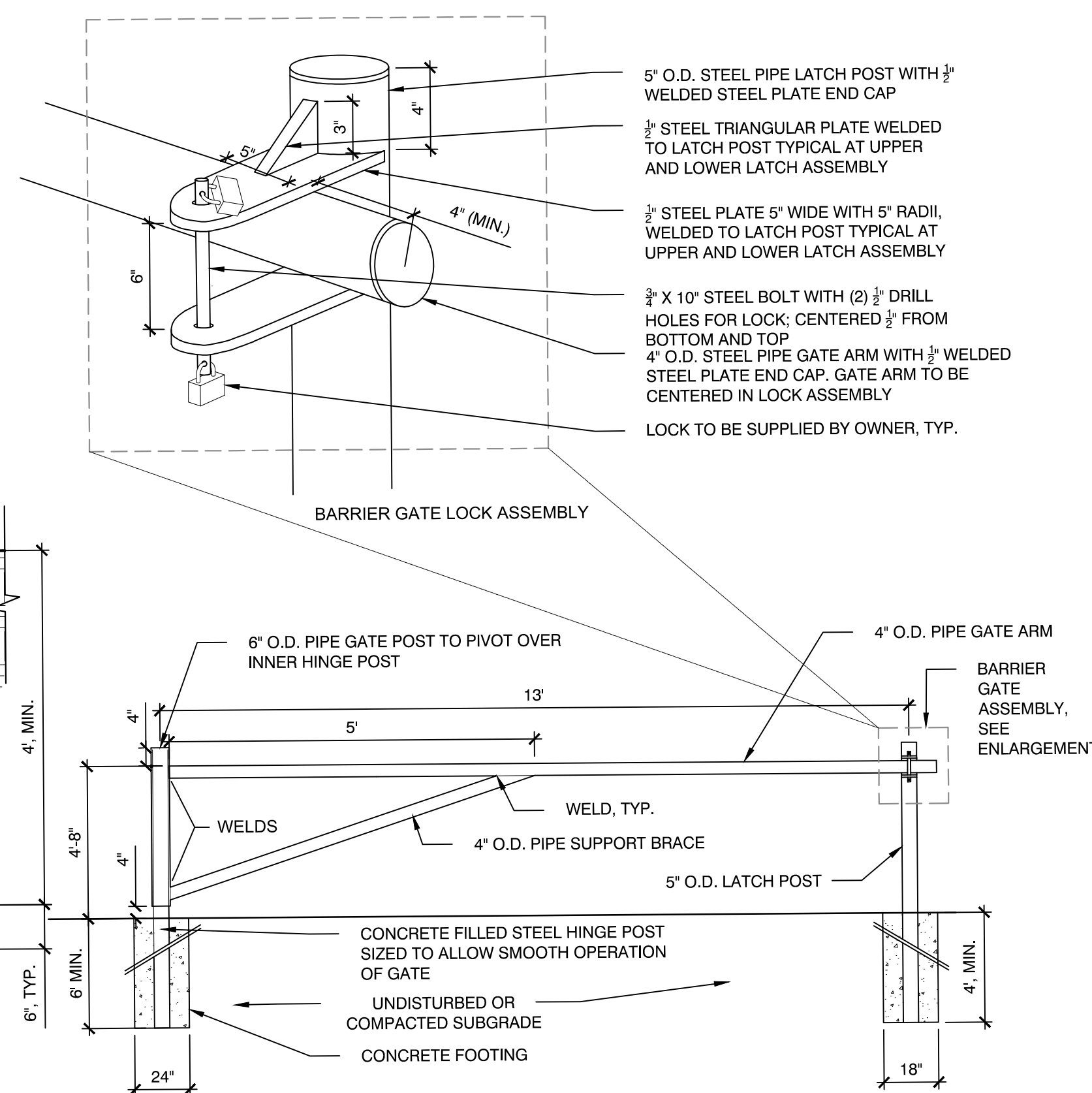
1 PEDESTRIAN LIGHTING
SCALE: N.T.S.

2 ROADWAY LIGHTING
SCALE: N.T.S.

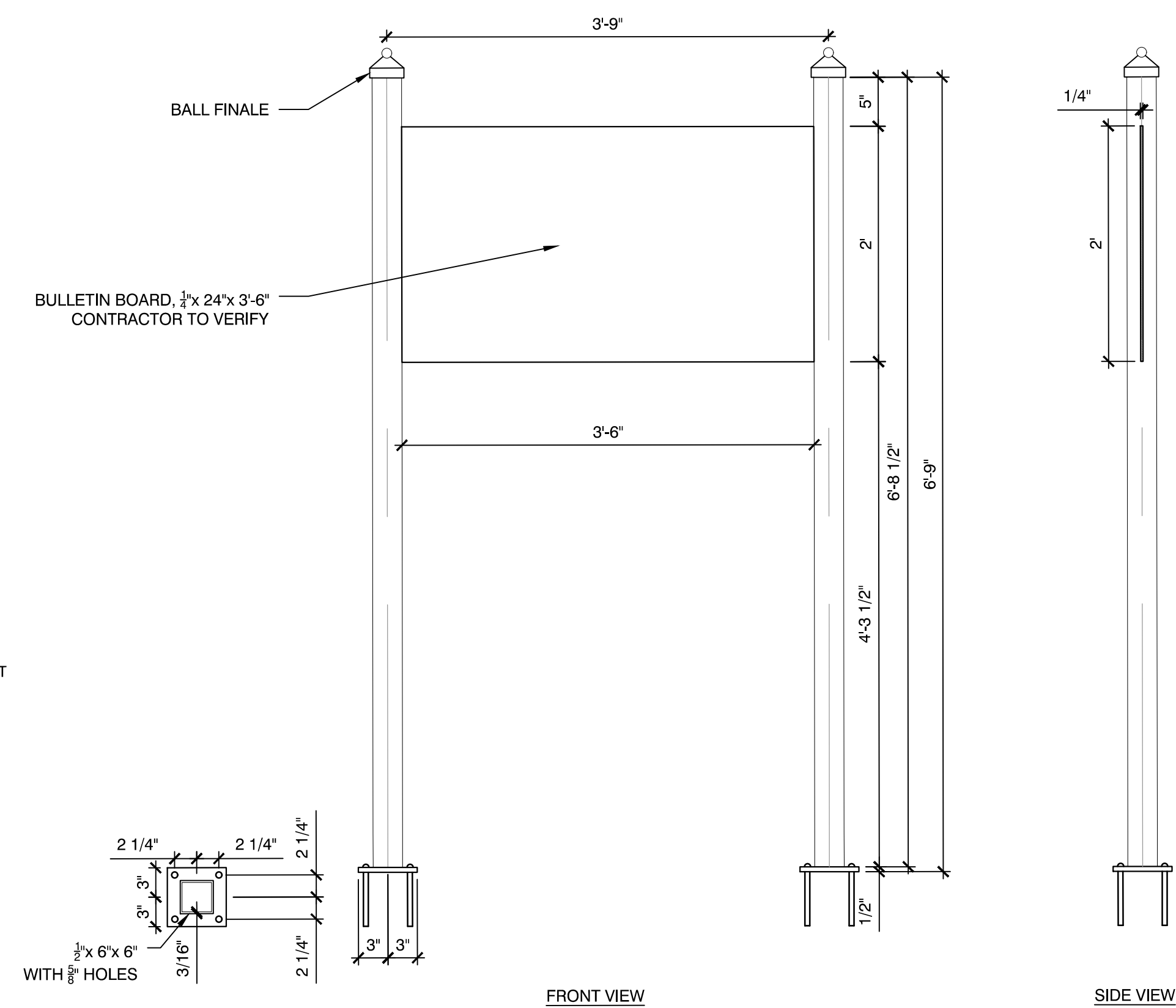
3 DOUBLE POST PEDESTAL SIGN
SCALE: N.T.S.



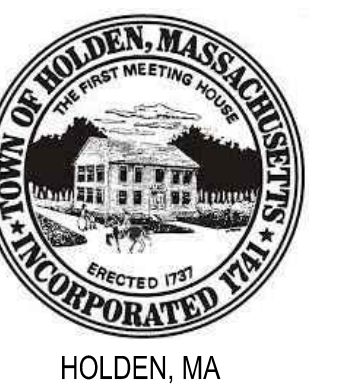
4 VEHICULAR GATE
SCALE: N.T.S.



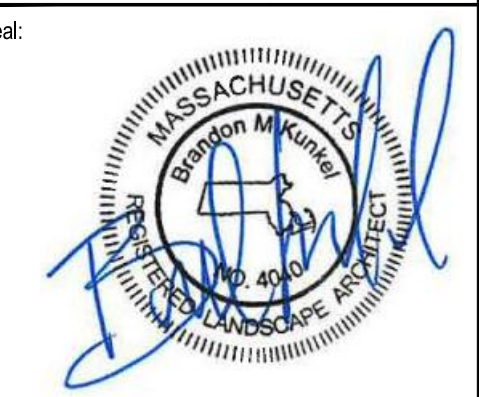
- NOTES:
1. ALL STEEL PIPE SHALL BE SCHEDULE 40.
 2. ALL STEEL SHALL BE FABRICATED WITH WELDS GROUND SMOOTH, AND EACH COMPONENT HOT-DIPPED GALVANIZED.
 3. PROVIDE TWO LATCH POST, ONE IN OPEN POSITION, AND ONE IN CLOSED POSITION.



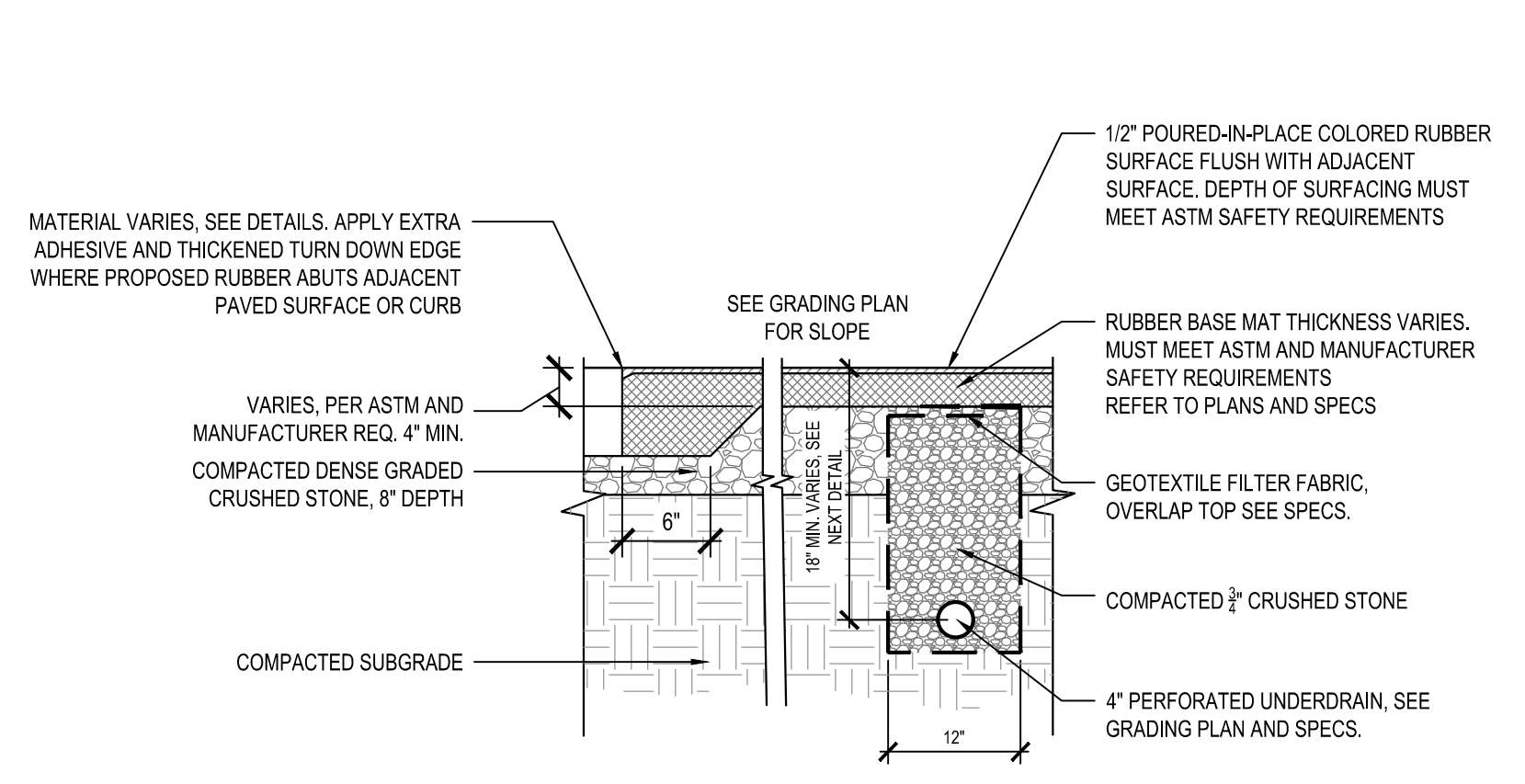
5 ENTRY SIGN
SCALE: N.T.S.



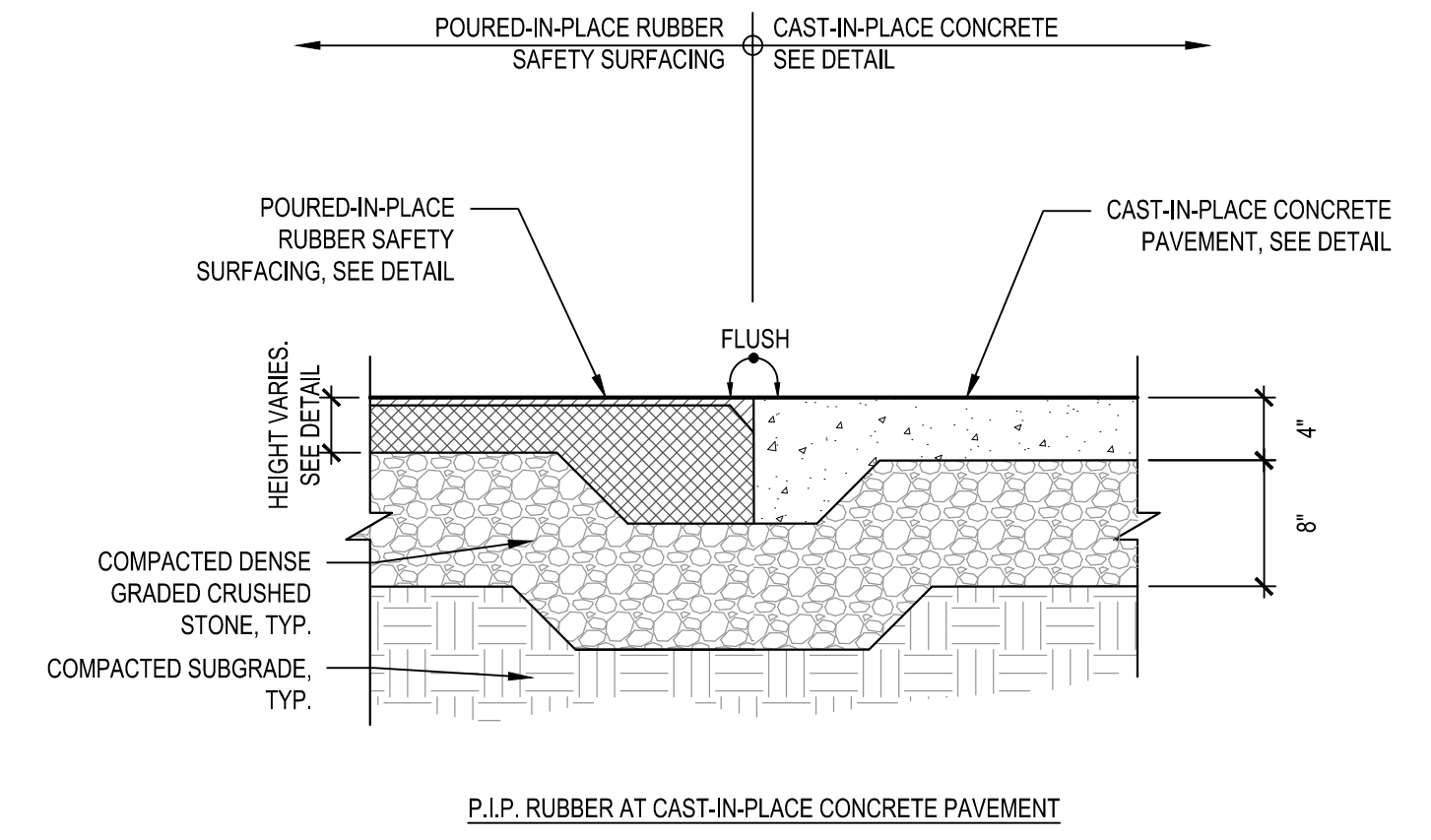
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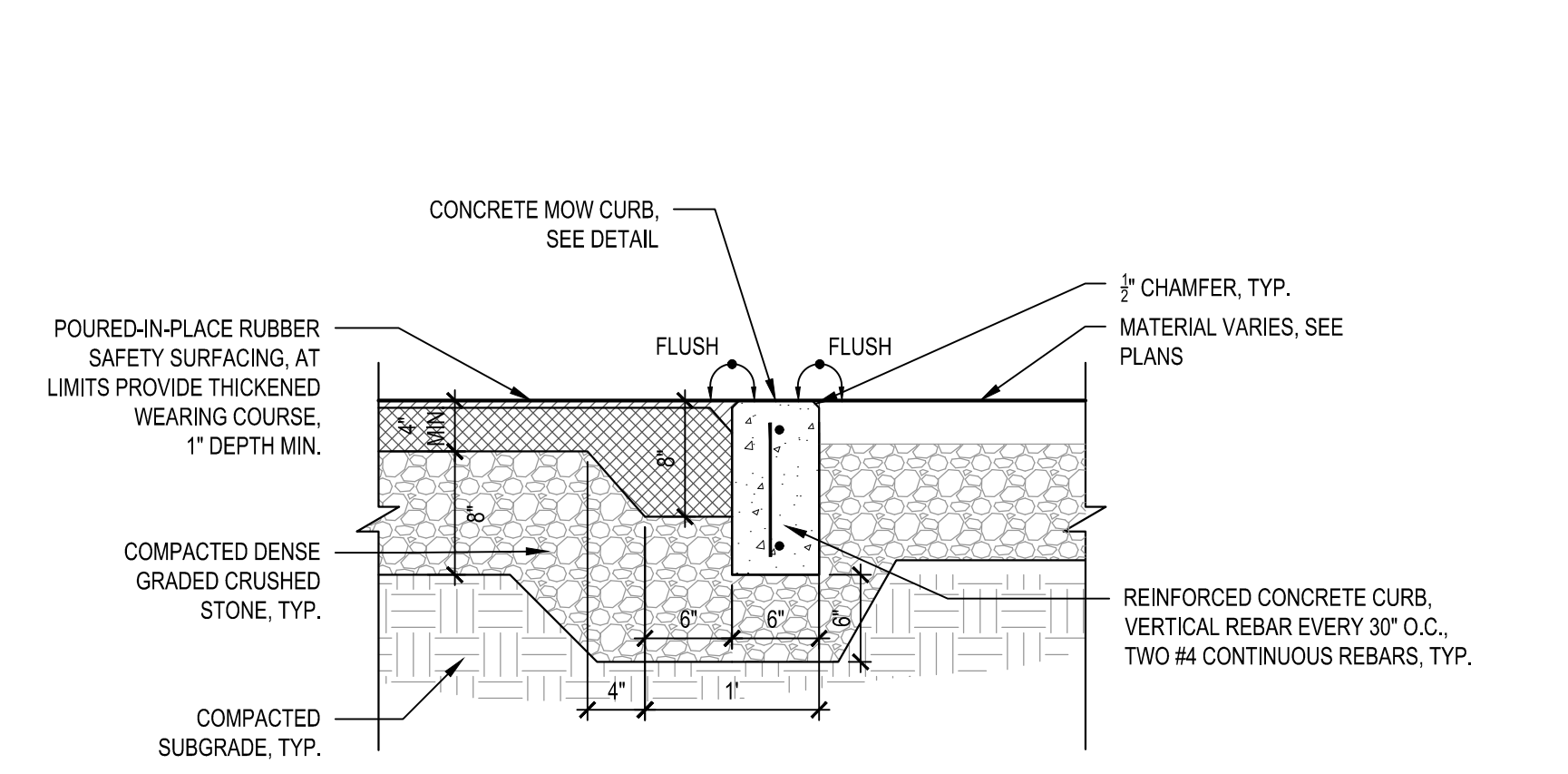
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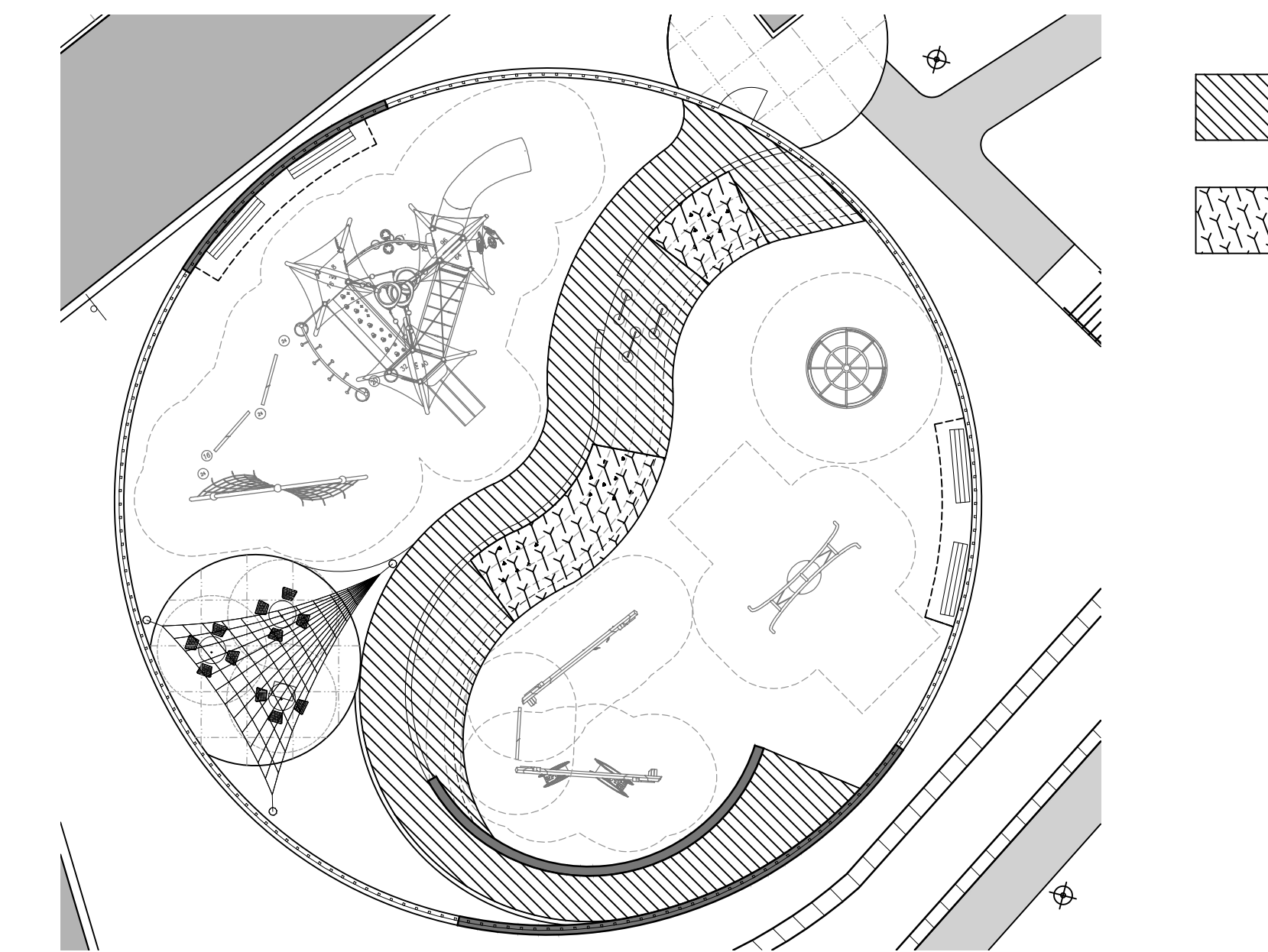
1 POURED-IN-PLACE RUBBER SAFETY SURFACING
SCALE: N.T.S.



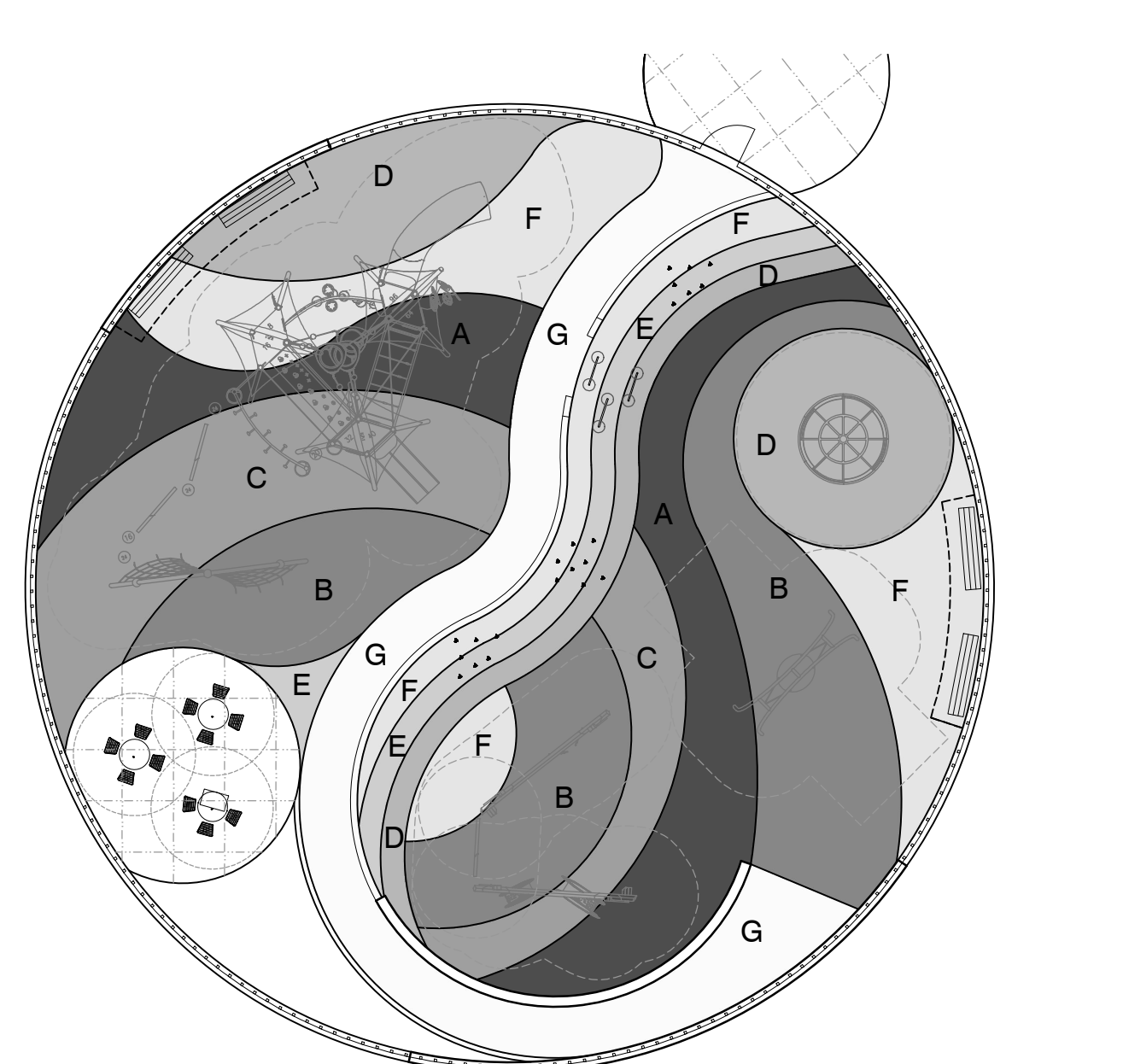
2 POURED-IN-PLACE RUBBER SAFETY SURFACING AT CIP CONCRETE
SCALE: N.T.S.



3 FLUSH CONCRETE MOW CURB AT POURED-IN-PLACE RUBBER SAFETY SURFACING
SCALE: N.T.S.



4 POURED-IN-PLACE RUBBER SAFETY SURFACING SLOPE CONDITION LAYOUT
SCALE: N.T.S.

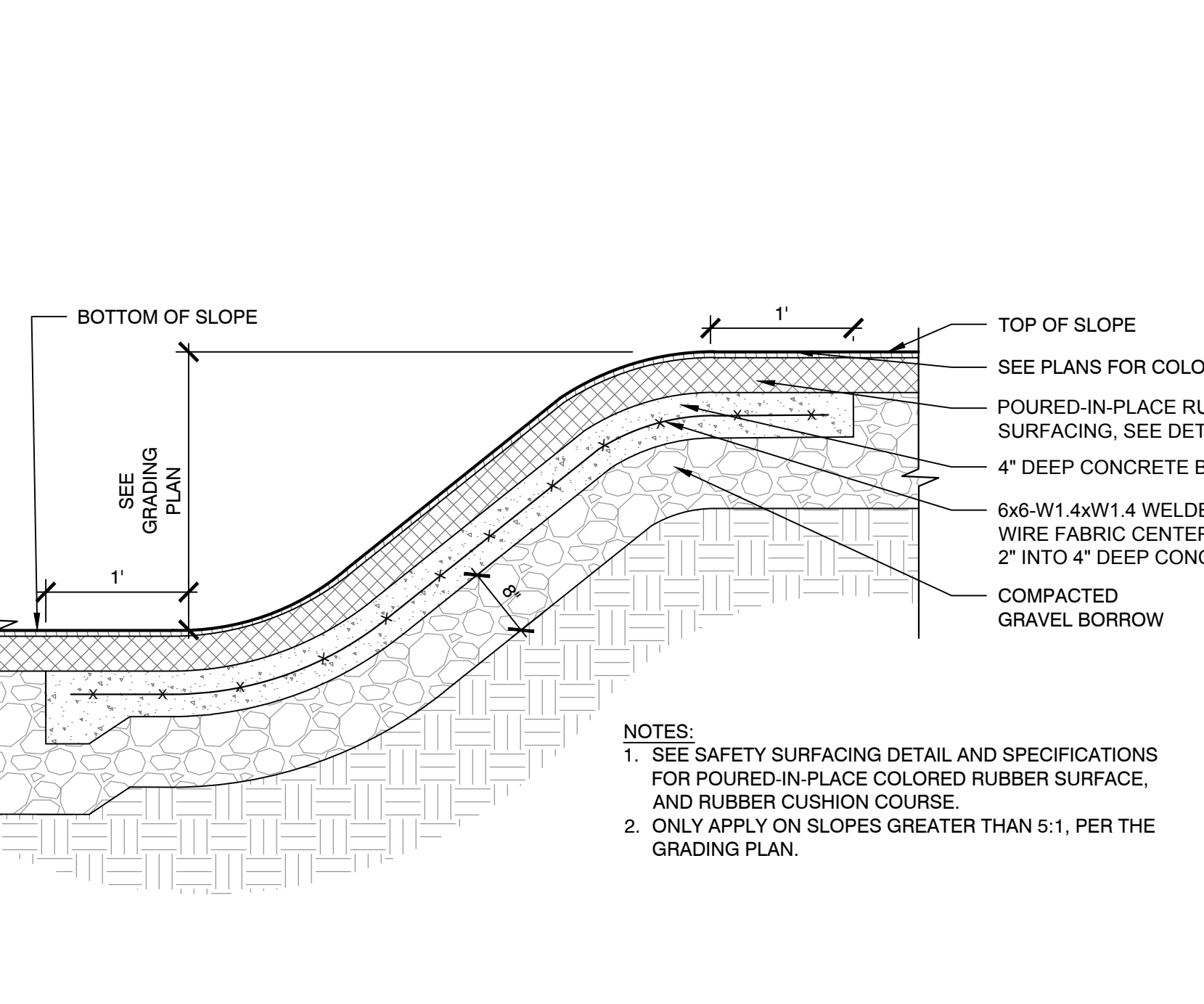


5 POURED-IN-PLACE RUBBER SAFETY SURFACING PATTERN
SCALE: N.T.S.

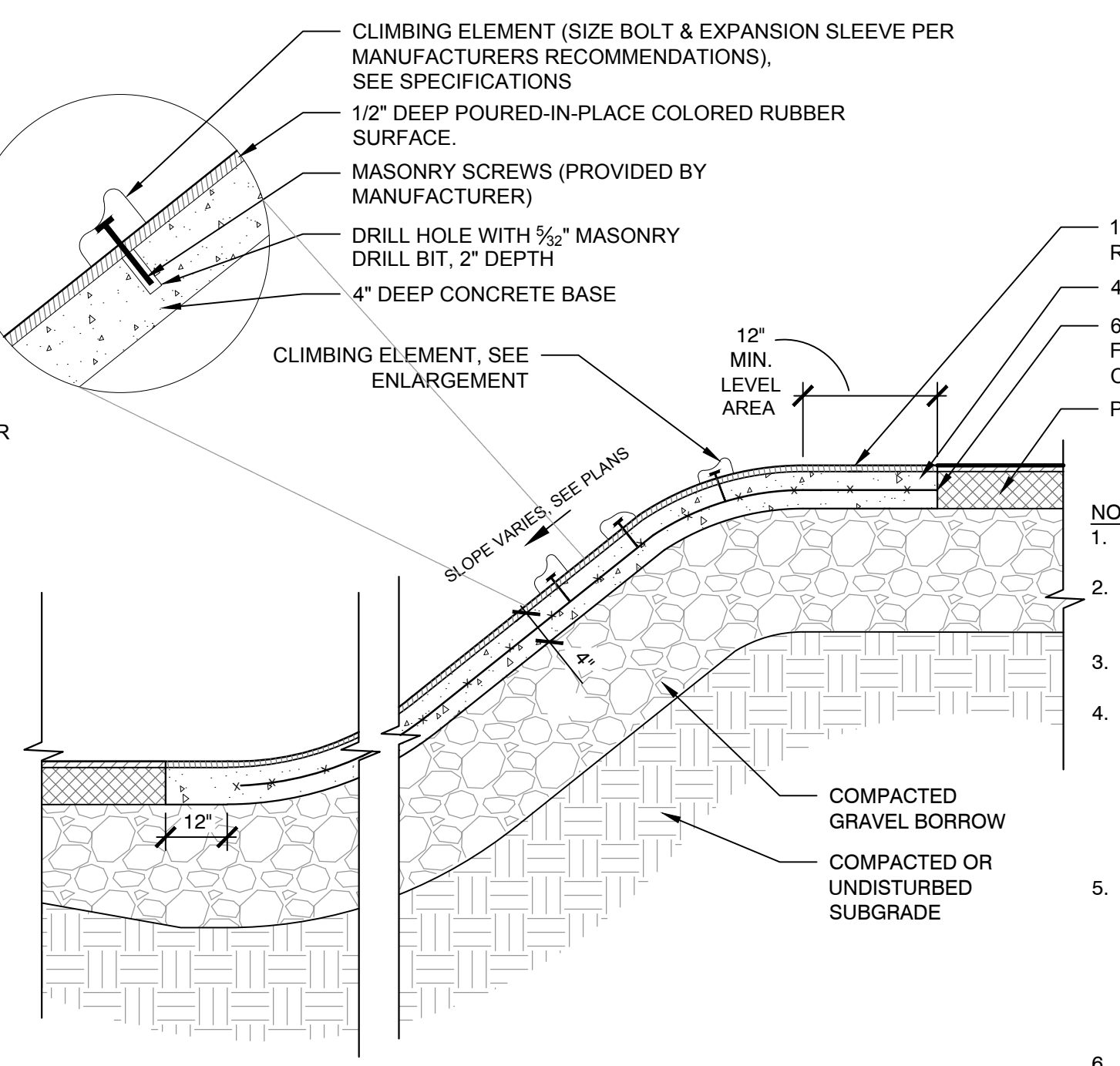
POURED-IN-PLACE RUBBER SAFETY SURFACING COLOR CHART

Color	Area (sf)	Notes
A	915 sf	COLOR TO BE APPROVED BY OWNER'S REPRESENTATIVE.
B	1,235 sf	COLOR TO BE APPROVED BY OWNER'S REPRESENTATIVE.
C	900 sf	COLOR TO BE APPROVED BY OWNER'S REPRESENTATIVE.
D	905 sf	COLOR TO BE APPROVED BY OWNER'S REPRESENTATIVE.
E	230 sf	COLOR TO BE APPROVED BY OWNER'S REPRESENTATIVE.
F	1000 sf	COLOR TO BE APPROVED BY OWNER'S REPRESENTATIVE.
G	835 sf	COLOR TO BE APPROVED BY OWNER'S REPRESENTATIVE.

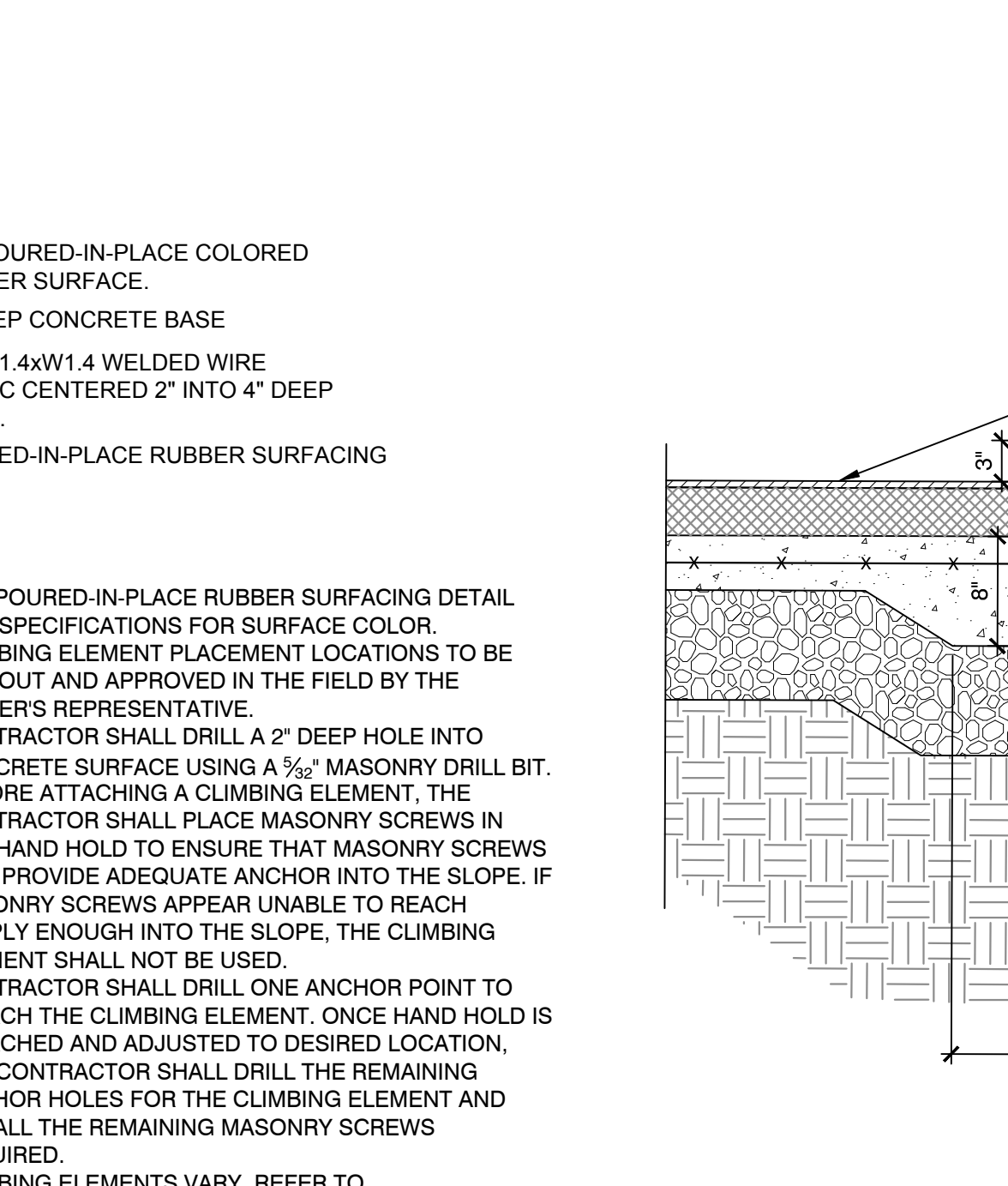
NOTES:
1. ALL COVERS FOR BURIED CLEANOUTS SHALL BE ONE COLOR LIGHTER THAN THE SURROUNDING POURED-IN-PLACE RUBBER SURFACING. REFER TO THE CLEANOUT DETAIL AND SPECIFICATIONS.



6 POURED-IN-PLACE RUBBER SAFETY SURFACING AT SLOPE, TYPE 1
SCALE: N.T.S.



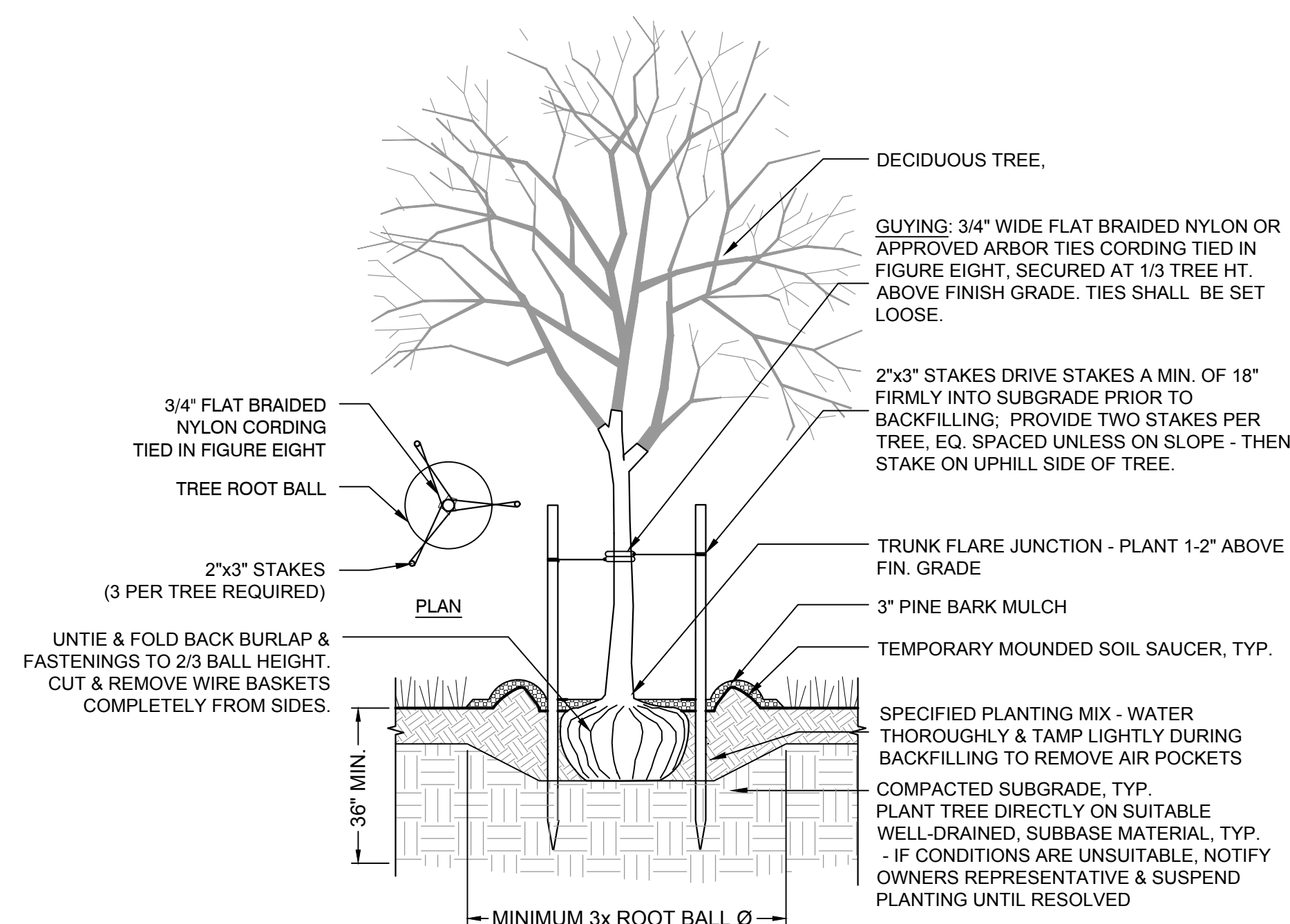
7 POURED-IN-PLACE RUBBER SAFETY SURFACING AT SLOPE, TYPE 2
SCALE: N.T.S.



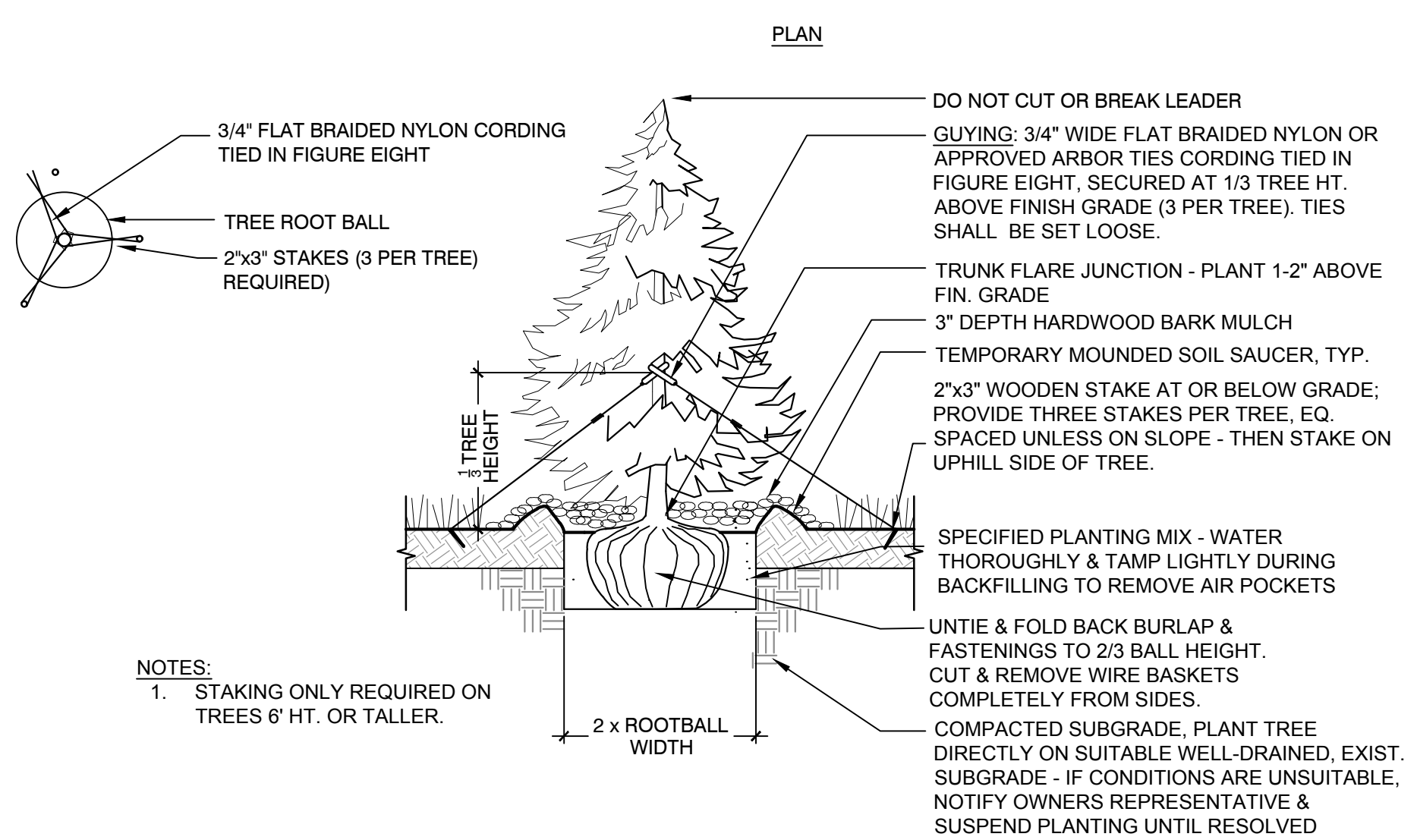
8 POURED-IN-PLACE RUBBER SAFETY SURFACING CURB
SCALE: N.T.S.

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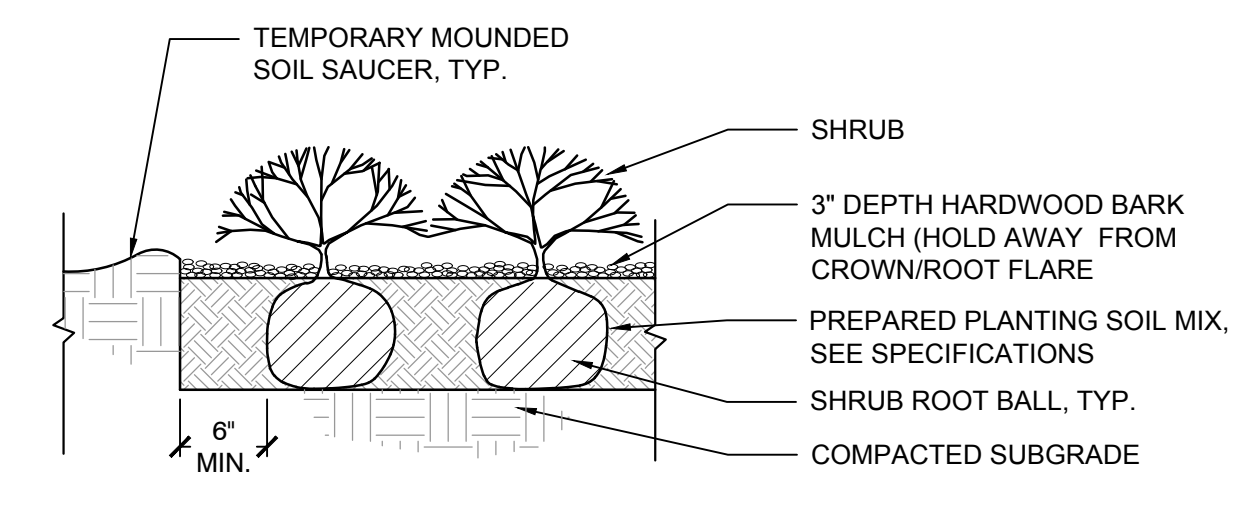
1 TREE STAKING AND PLANTING
SCALE: N.T.S.



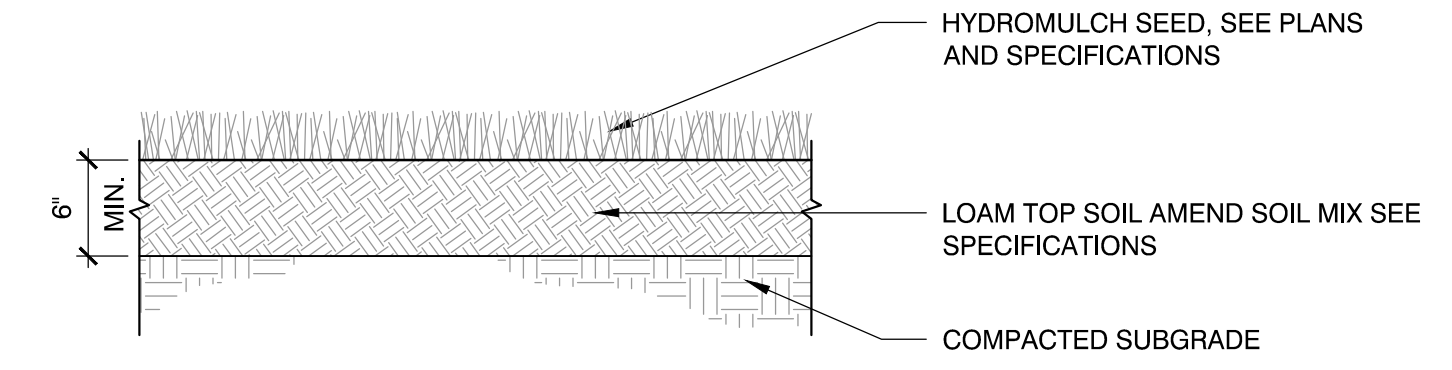
2 TREE STAKING AND PLANTING- EVERGREEN
SCALE: N.T.S.



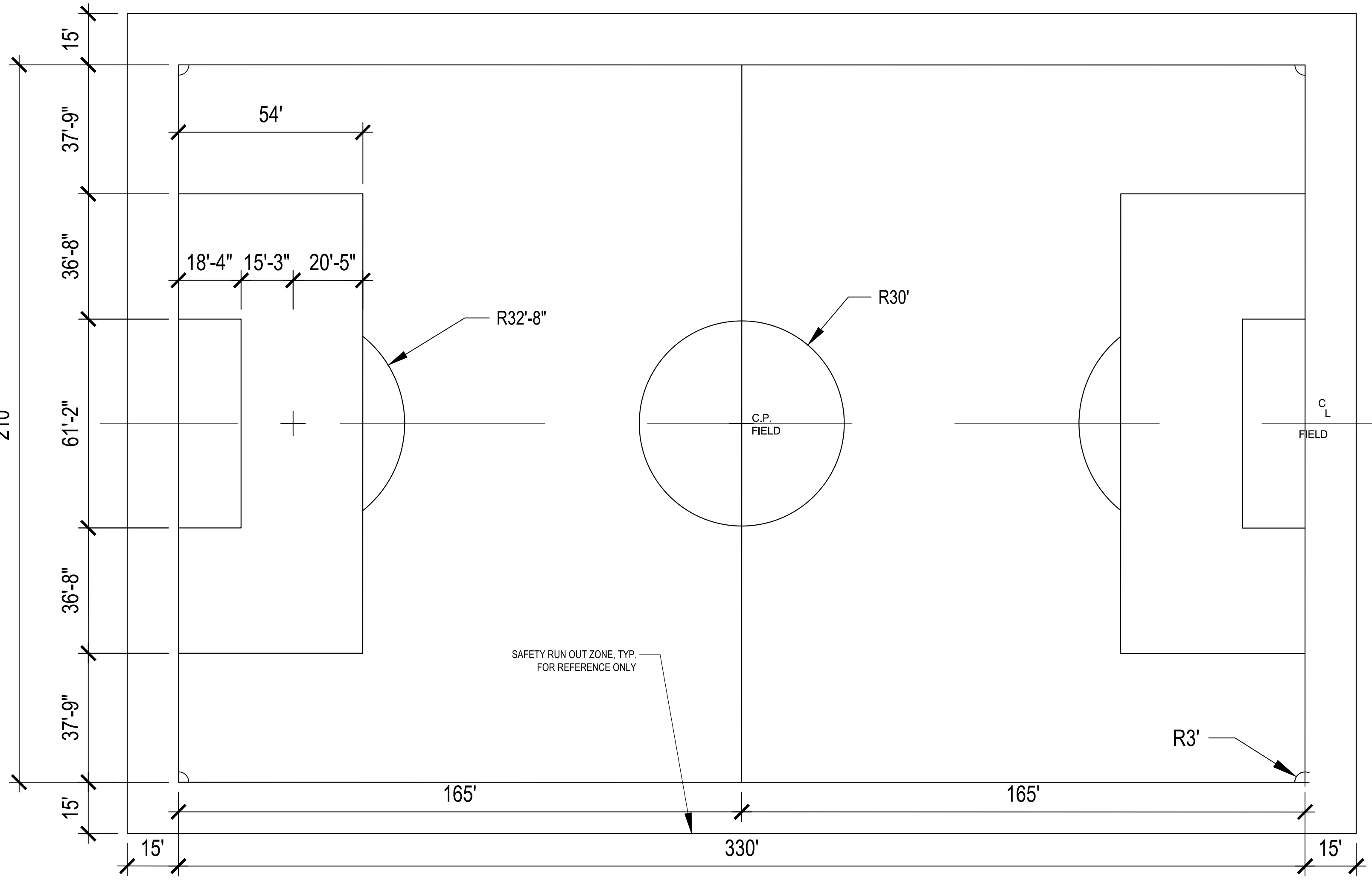
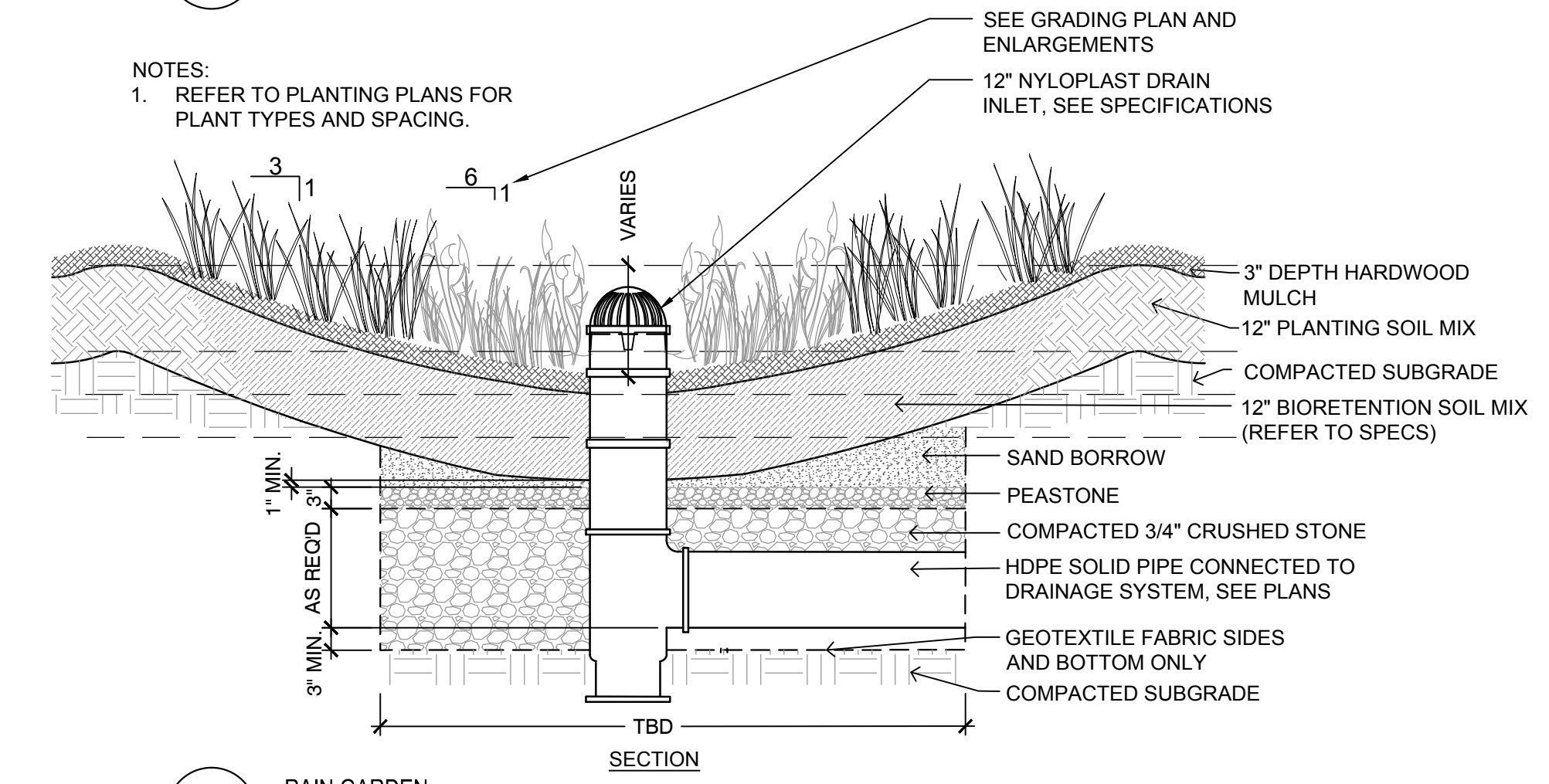
3 SHRUB PLANTING DETAIL
SCALE: N.T.S.



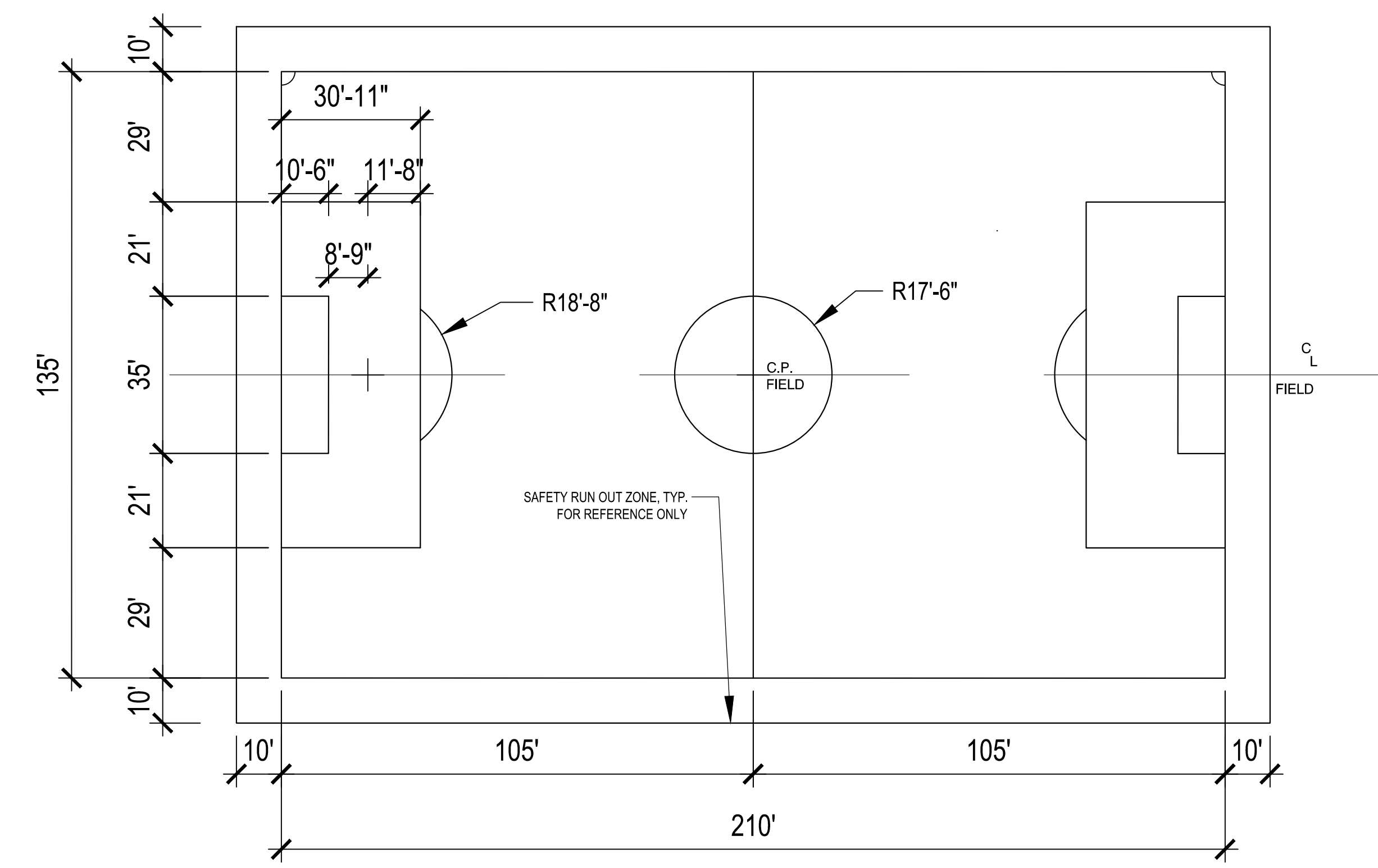
4 LOAM AND SEED
SCALE: N.T.S.



5 RAIN GARDEN
SCALE: N.T.S.



6 SOCCER FIELD LAYOUT
SCALE: N.T.S.



Project:
INDUSTRIAL DRIVE ATHLETIC
FIELDS & DAWSON RECREATION
IMPROVEMENTS

HOLDEN, MA

Weston & Sampson
Weston & Sampson Engineers, Inc.
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Boston, MA 02109
978.532.1900 800.SAMPSON

Consultants:

No.	Date	Description

COA:

Revisions:

No.	Date	Description

Seal:

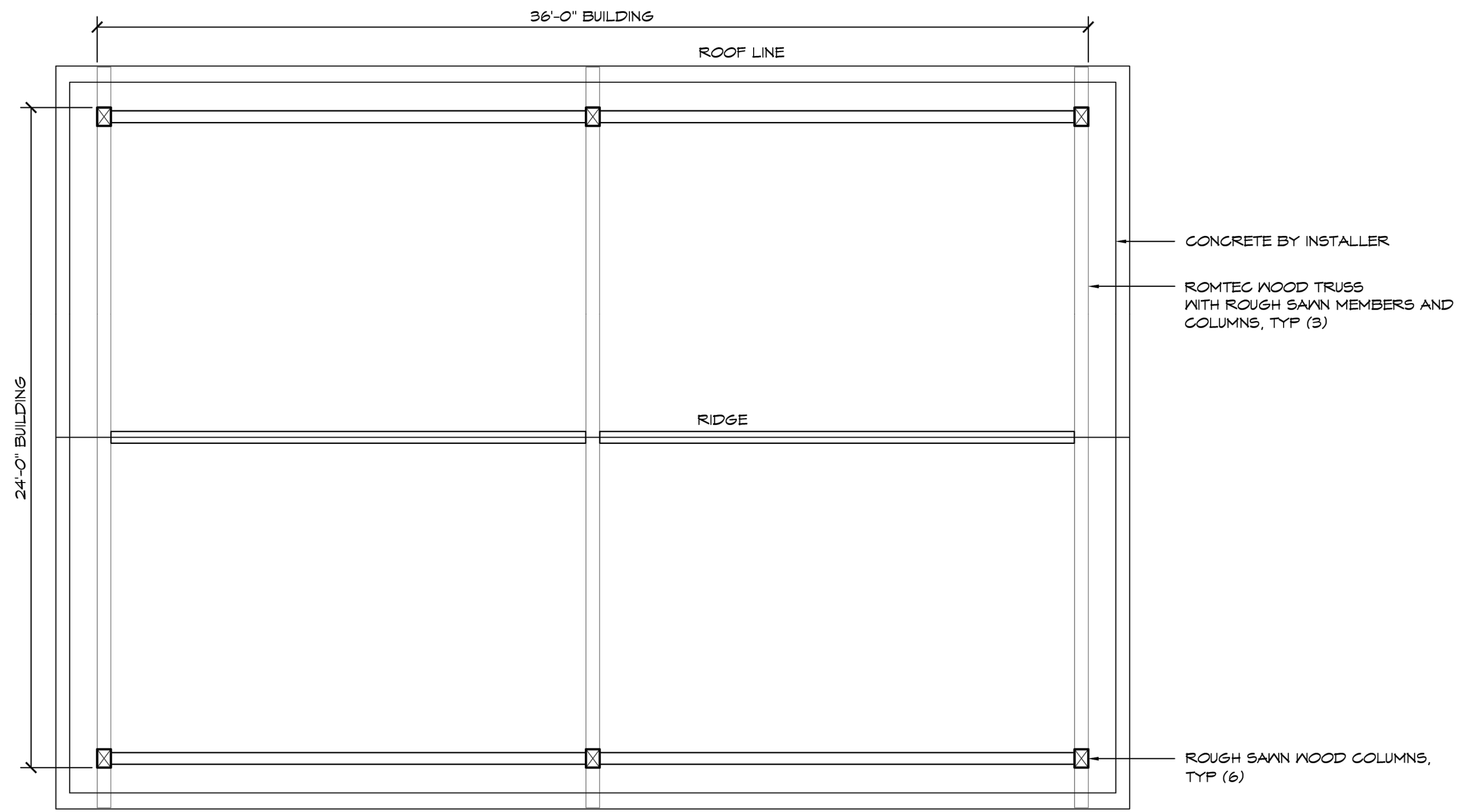
Issued For:
CONSTRUCTION DOCUMENTS

Date: 02/14/2024
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Reviewed By: JM
Approved By: BK

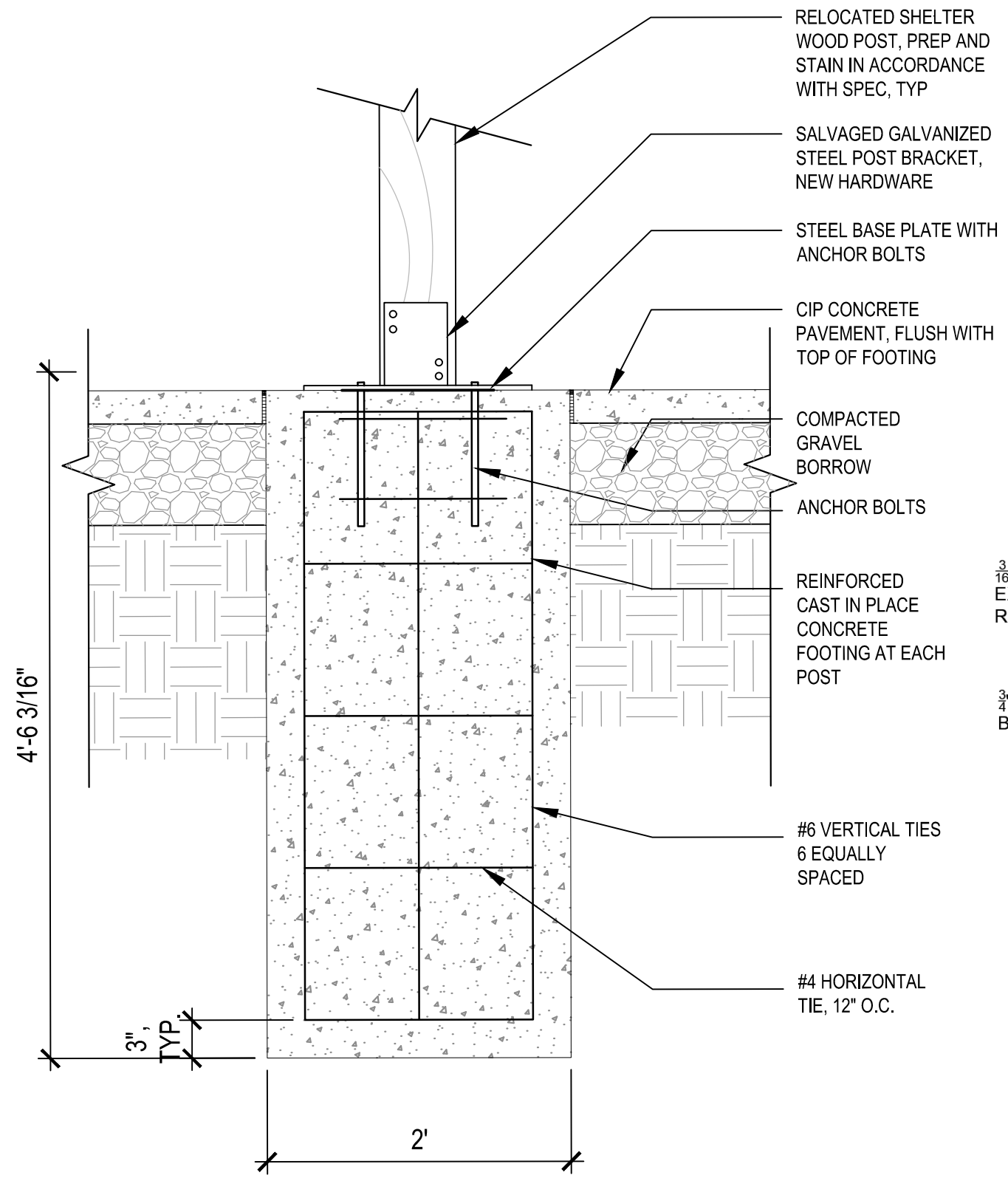
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W&S File No.:

Drawing Title:
LANDSCAPE DETAILS

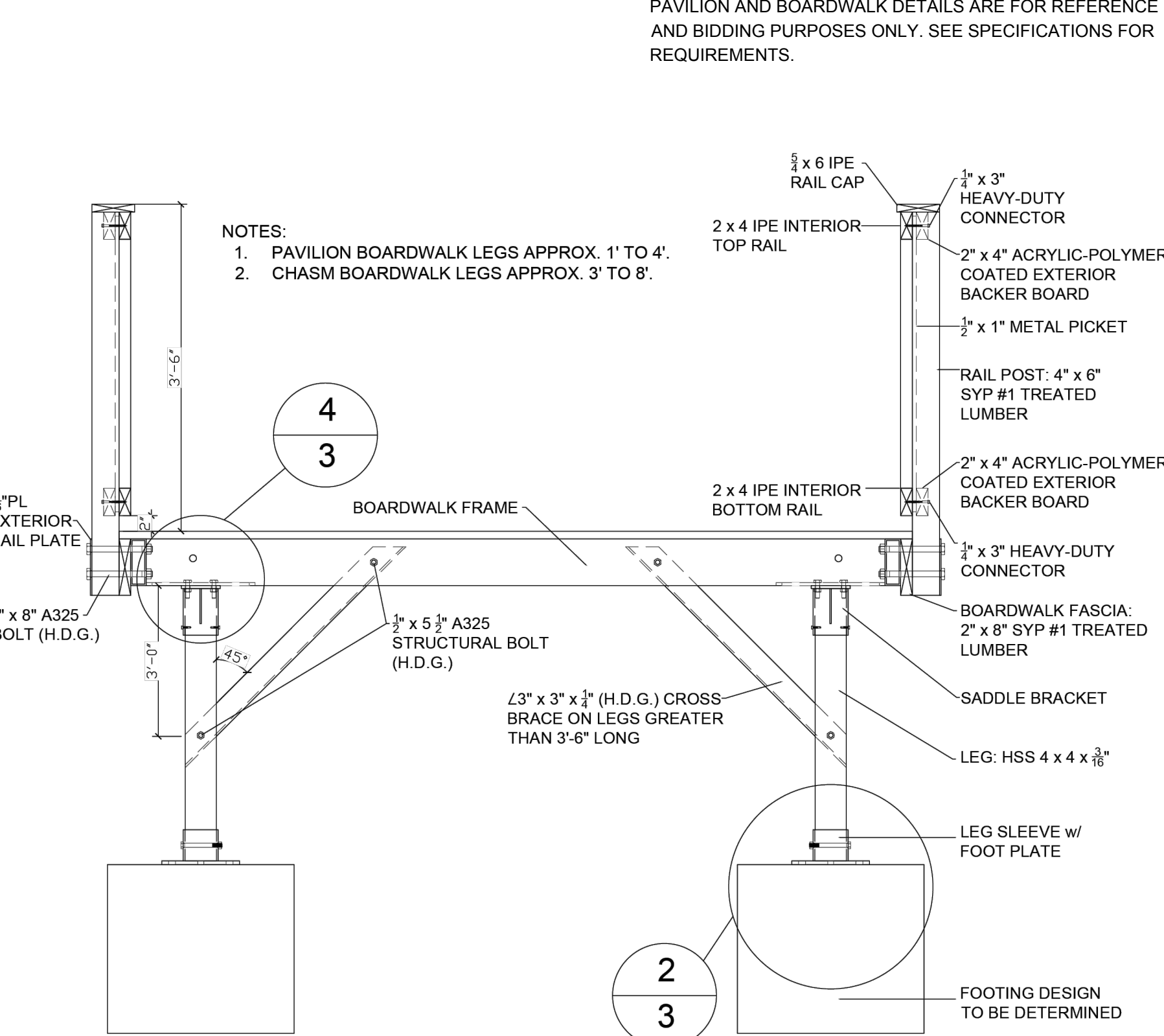
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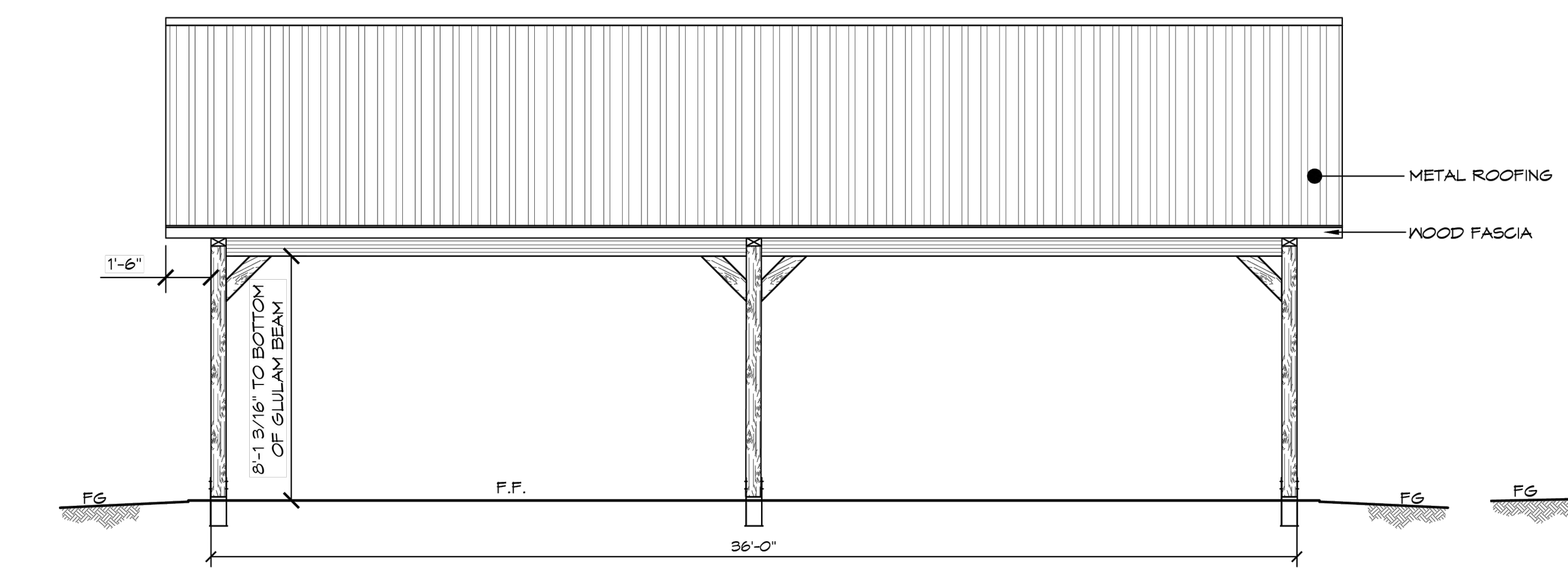
1 PAVILION - PLAN
SCALE: N.T.S.



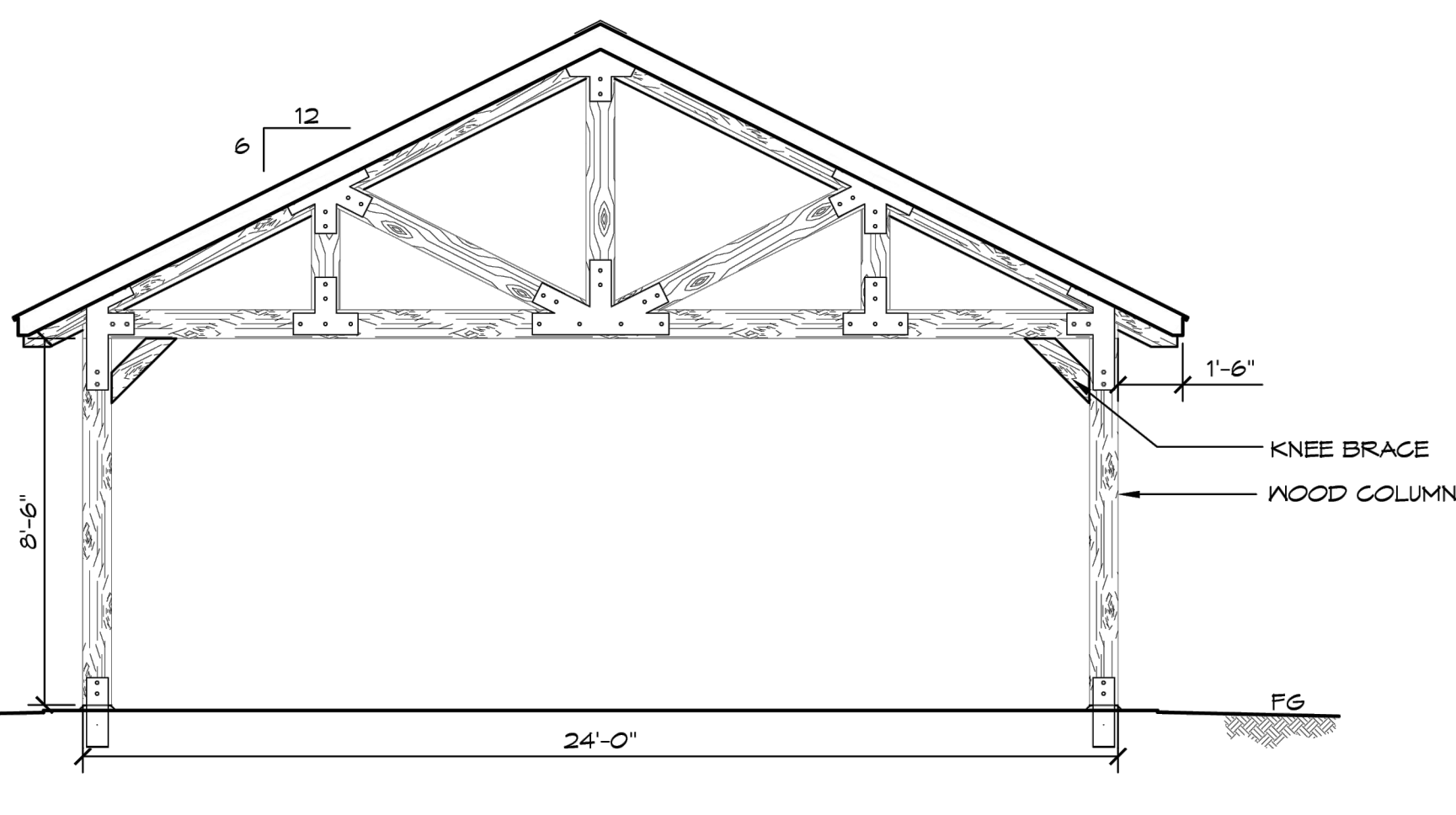
2 PAVILION FOUNDATION
SCALE: N.T.S.



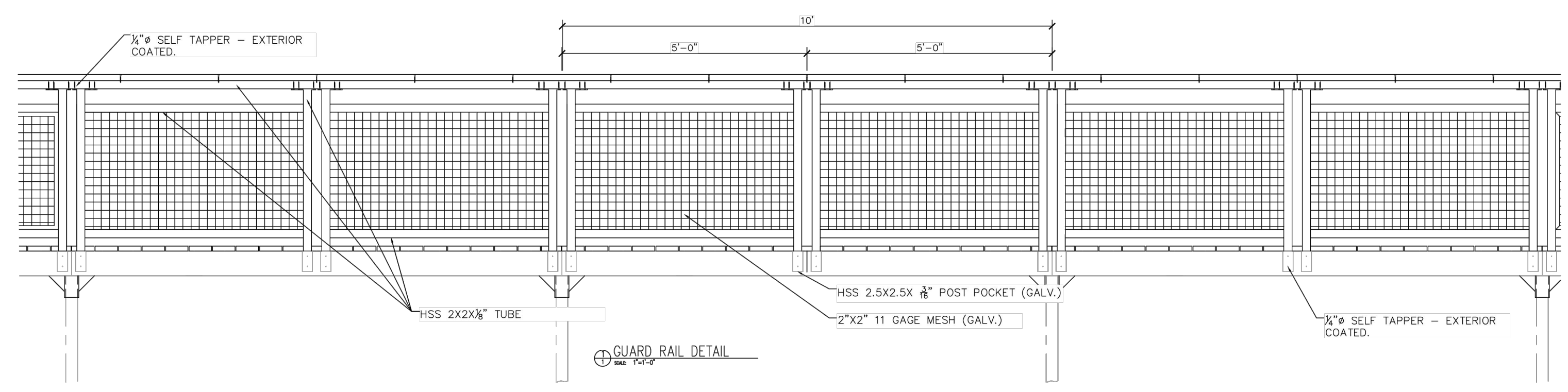
3 ELEVATED BOARDWALK - SECTION
SCALE: N.T.S.



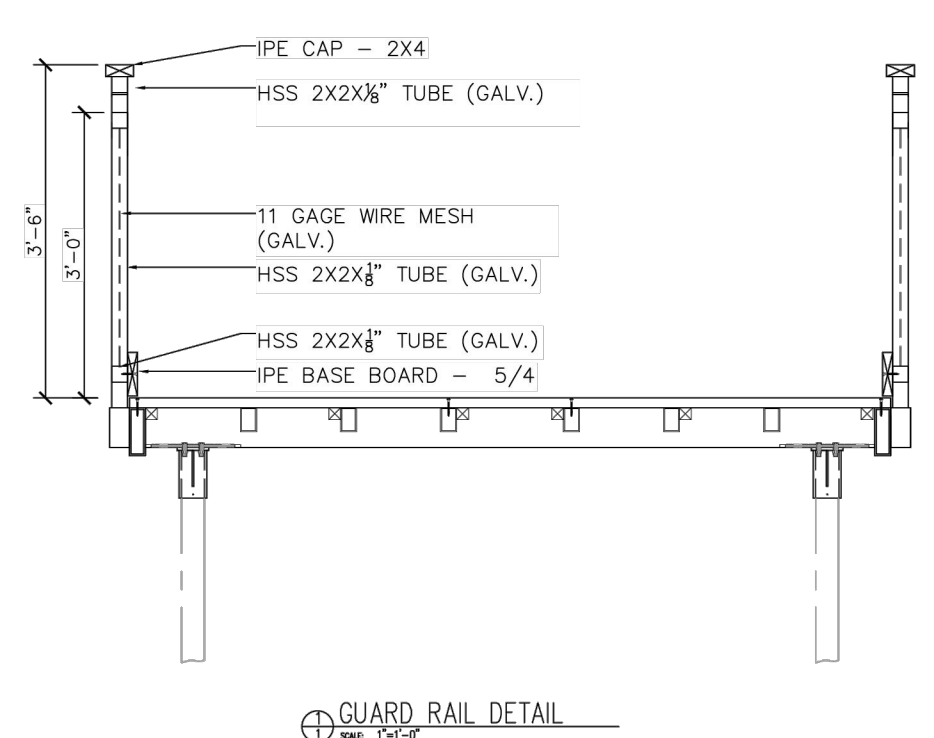
4 PAVILION - ELEVATION
SCALE: N.T.S.



5 ELEVATED BOARDWALK - FRAME TO POST CONNECTION
SCALE: N.T.S.



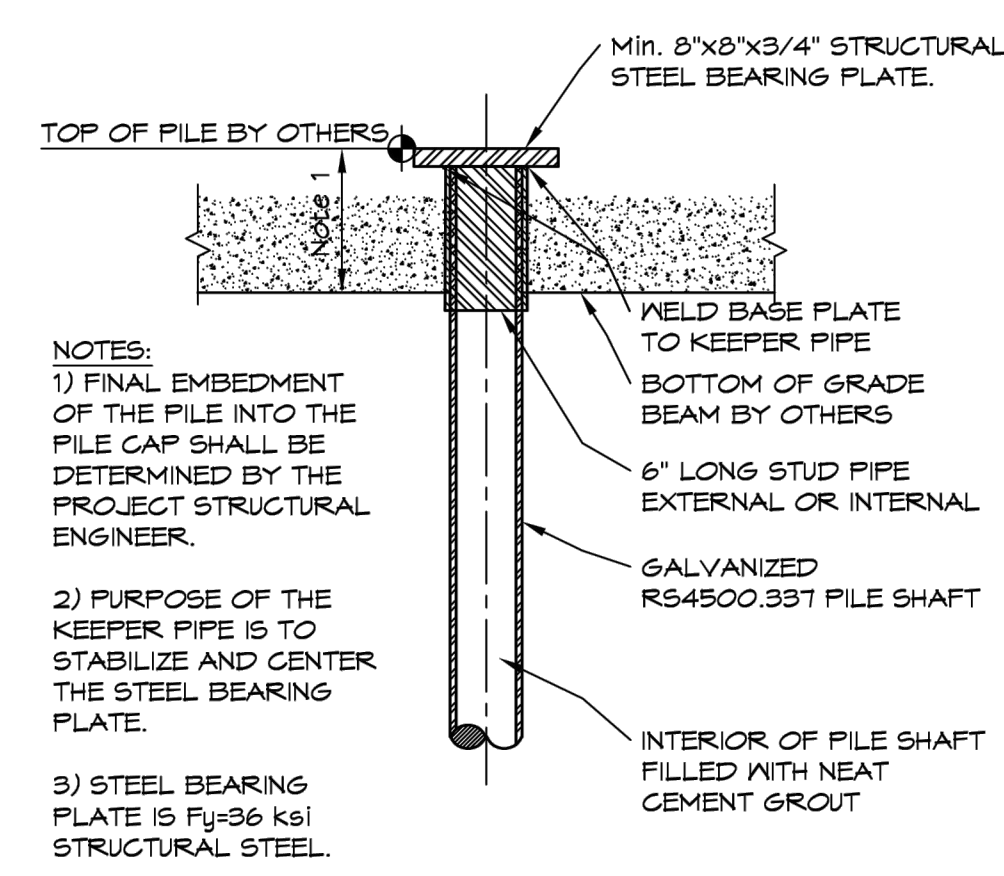
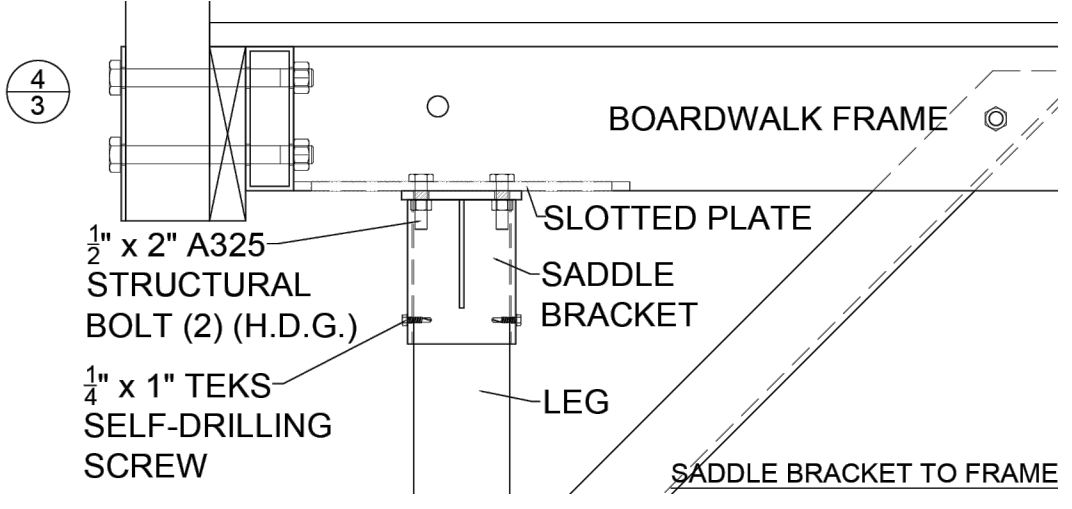
6 ELEVATED BOARDWALK - GUARDRAIL ELEVATION
SCALE: N.T.S.



7 ELEVATED BOARDWALK - HELICAL PILE DESIGN
SCALE: N.T.S.

NOTE:
PAVILION AND BOARDWALK DETAILS ARE FOR REFERENCE AND BIDDING PURPOSES ONLY. SEE SPECIFICATIONS FOR REQUIREMENTS.

- NOTES:
1. PAVILION BOARDWALK LEGS APPROX. 1' TO 4'.
2. CHASM BOARDWALK LEGS APPROX. 3' TO 8'.



- NOTES:
1. HELICAL PILE WILL BE HOT-DIPPED GALVANIZED BELOW GRADE HELICAL PILES. 4-1/2" ROUND SHAFT, TYPE RS4500.337 WITH A 2-HELICAL LEAD CONFIGURATION OF 10"/12" AS MANUFACTURER BY A.D. CHANGE.
2. HELICAL PILE LEAD SECTION SHALL BE ADVANCED THROUGHOUT ANY FILL AND/OR ORGANICS AND TERMINATE INTO NATURALLY DEPOSITED SANDS AT APPROXIMATELY 20' BELOW THE BOTTOM OF THE PILE CAP, OR AS DIRECTED BY THE GEOTECHNICAL ENGINEER.
3. PILES SHALL BE INSTALLED BY MACHINE TO THE REQUIRED MAXIMUM NOMIAL COMPRESSION CAPASTY.
4. HELICAL PILES ARE A SCREW TYPE PILE THAT CAN ONLY PENETRATE SOIL.

Project:
INDUSTRIAL DRIVE ATHLETIC FIELDS & DAWSON RECREATION IMPROVEMENTS

HOLDEN, MA

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www.westonandsampson.com

Consultants:

Revisions:

No.	Date	Description

COA:

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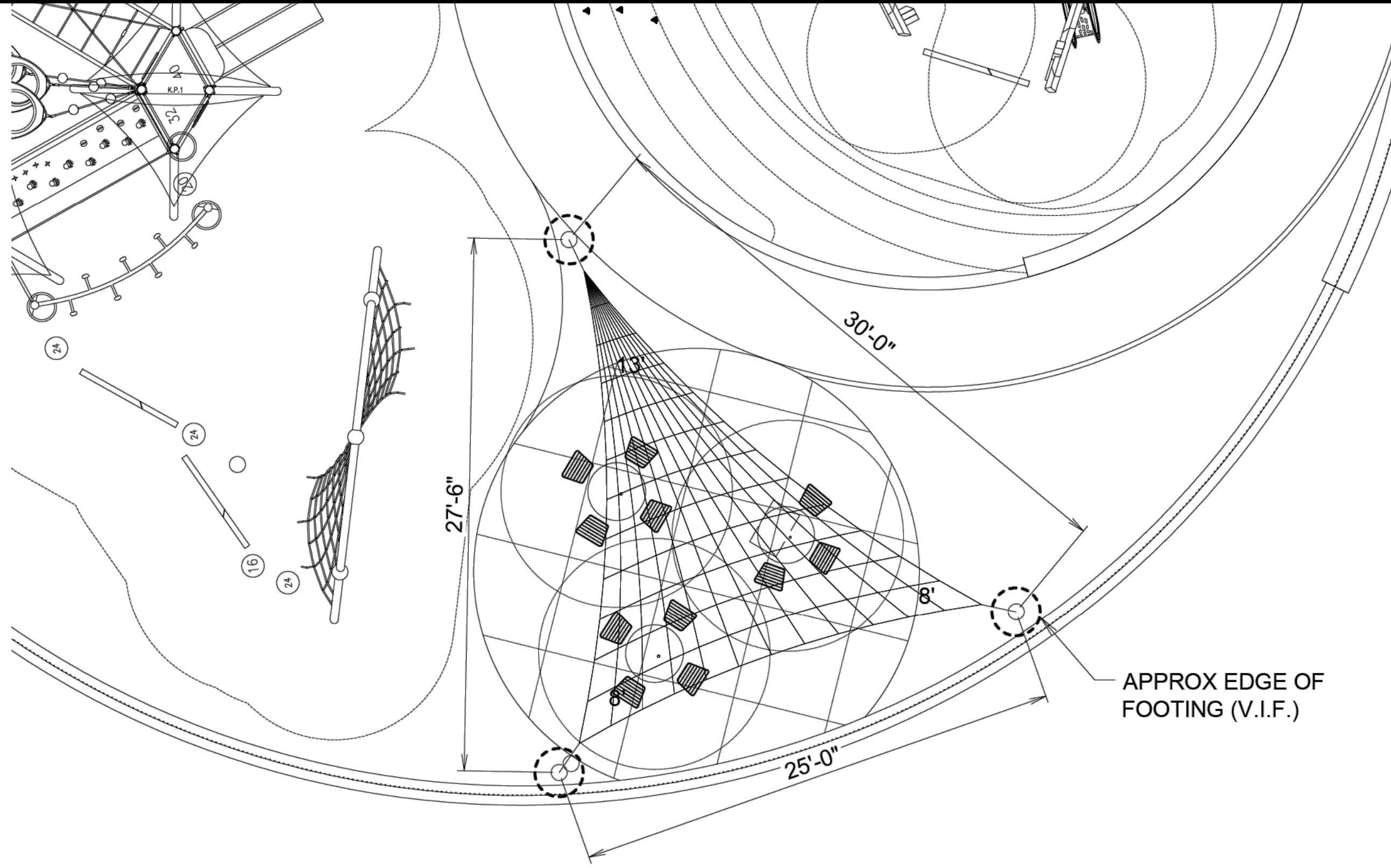
Issued For:
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Scale:

Date: 02/14/2024
Drawn By: AG, KH
Reviewed By: JM
Approved By: BK
W&S Project No.: ENG22 - 0852
W&S File No.:

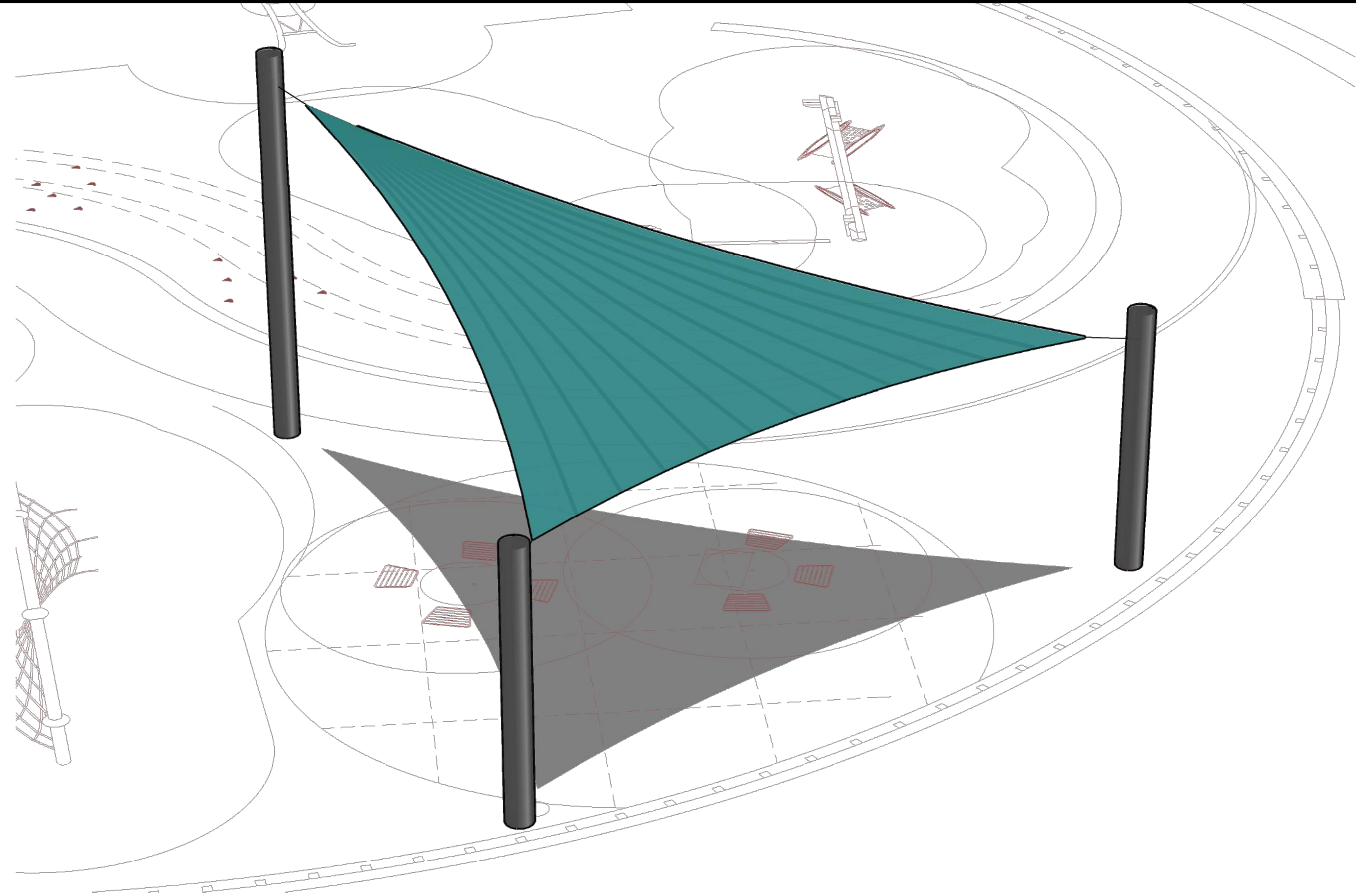
Drawing Title:
LANDSCAPE DETAILS

Sheet Number:
L710

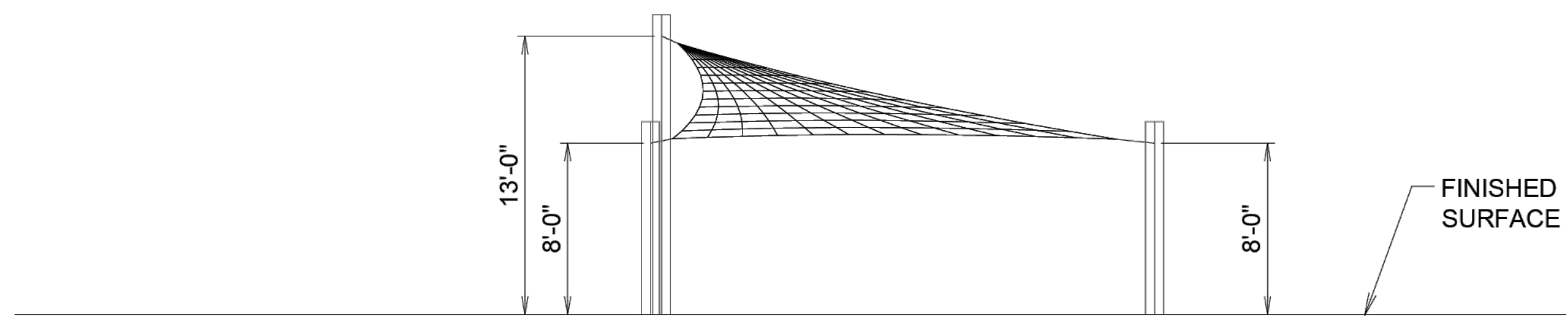


COVERAGE AREA	
PANEL #	SQ.FT
PANEL 1	194.81
TOTAL	194.81

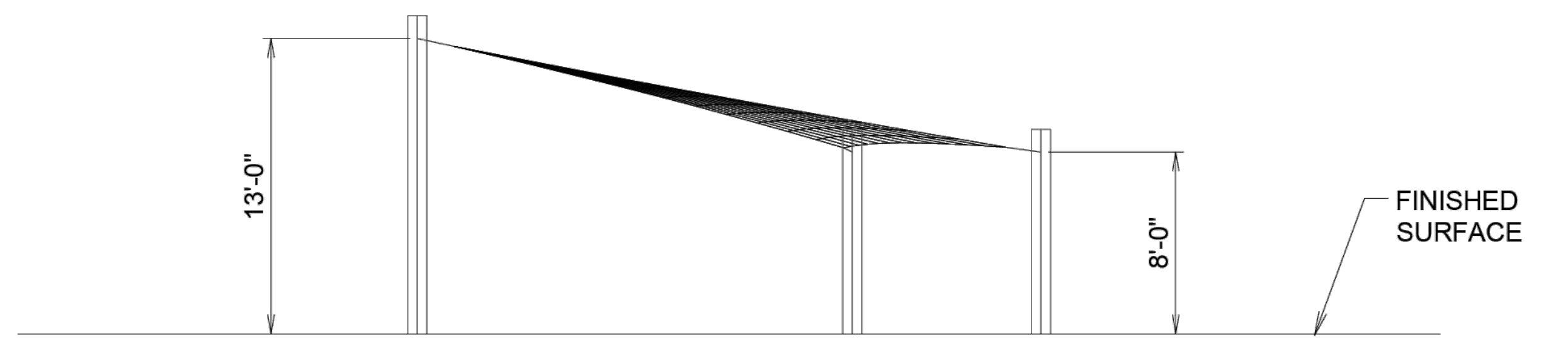
PLAN VIEW



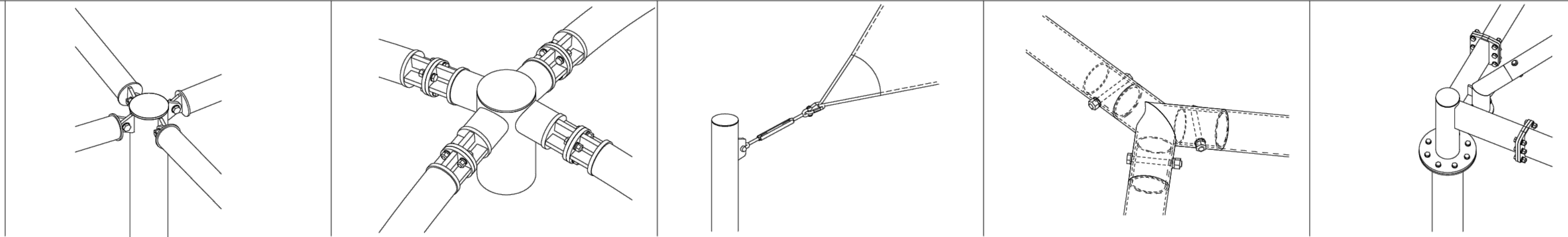
PERSPECTIVE VIEW



SOUTH ELEVATION



WEST ELEVATION



Notes:

- All structures will have bolted connections for shipping and installations purposes.
- Standard details being shown as an example. Final details t.b.d. during final Engineering phase.
- All dimensions and heights must be field verified prior to any final design, fabrication or installation work

NOTE:
SHADE SAIL DETAILS ARE FOR REFERENCE AND BIDDING PURPOSES ONLY. SEE SPECIFICATIONS FOR REQUIREMENTS.

1 SHADE SAIL
SCALE: N.T.S.

Project:
INDUSTRIAL DRIVE ATHLETIC
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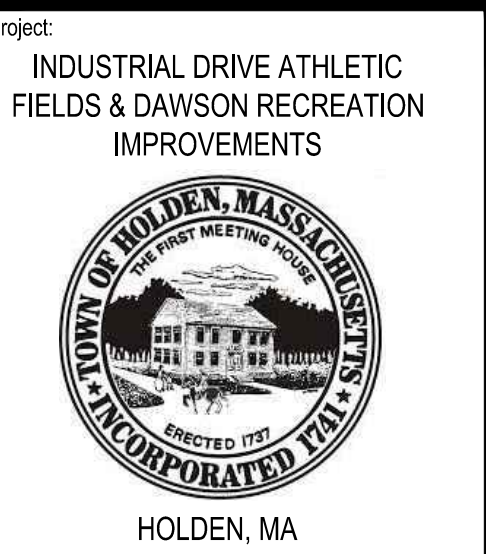
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Date: 02/14/2024
Drawn By: AG, KH
Reviewed By: JM
Approved By: BK
W&S Project No.: ENG22 - 0852
W&S File No.:

Drawing Title:
**LANDSCAPE
DETAILS**

Sheet Number:
L711

NOTE:
 PRE-ENGINEERED SUPPORT BUILDING DETAILS ARE FOR
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Revisions:

No.	Date	Description

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Seal:



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 Drawn By: AG, KH
 Reviewed By: JM
 Approved By: BK
 W&S Project No.: ENG22 - 0852
 W&S File No.:

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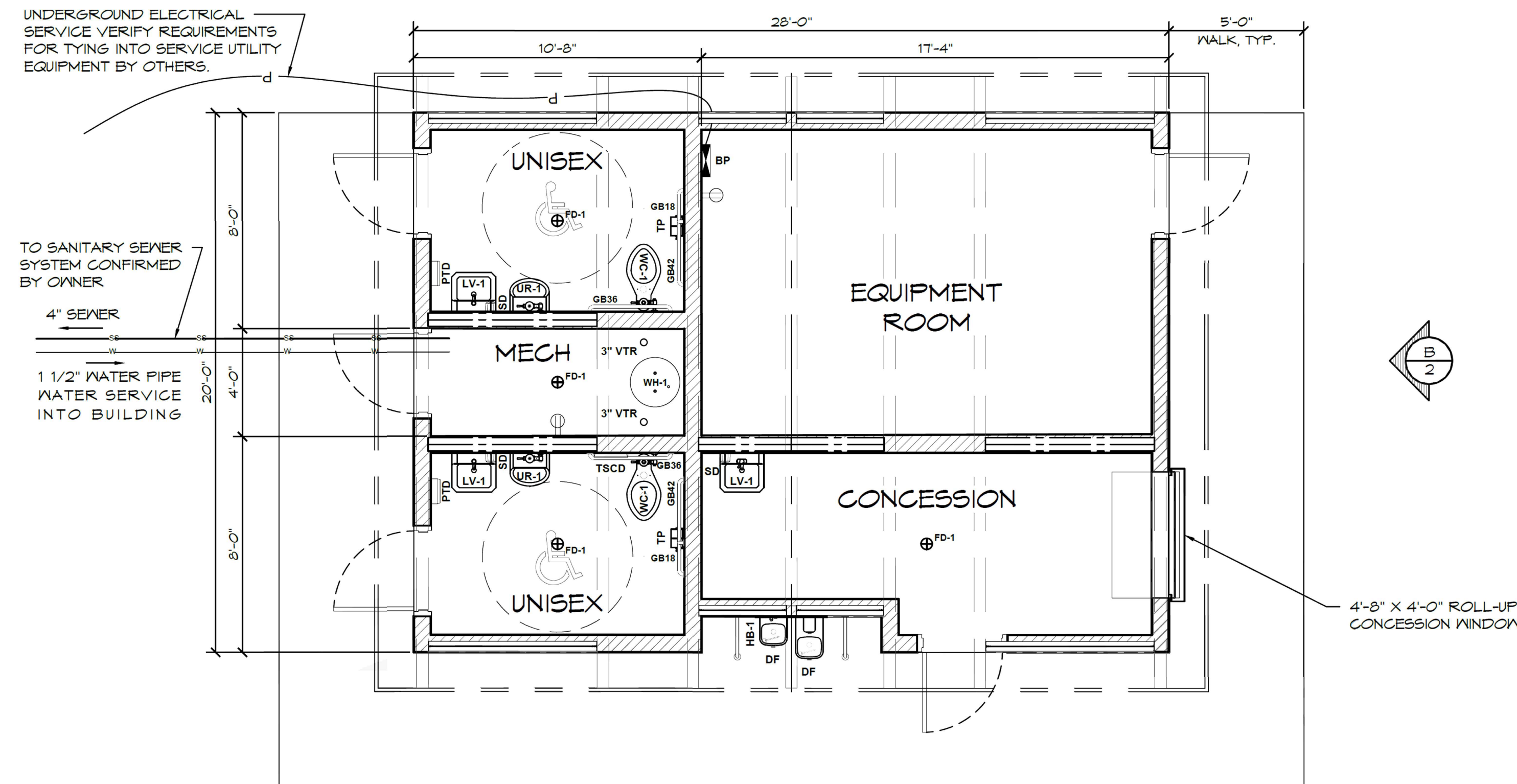
**PRE-ENGINEERED
 SUPPORT
 BUILDING
 DETAILS**

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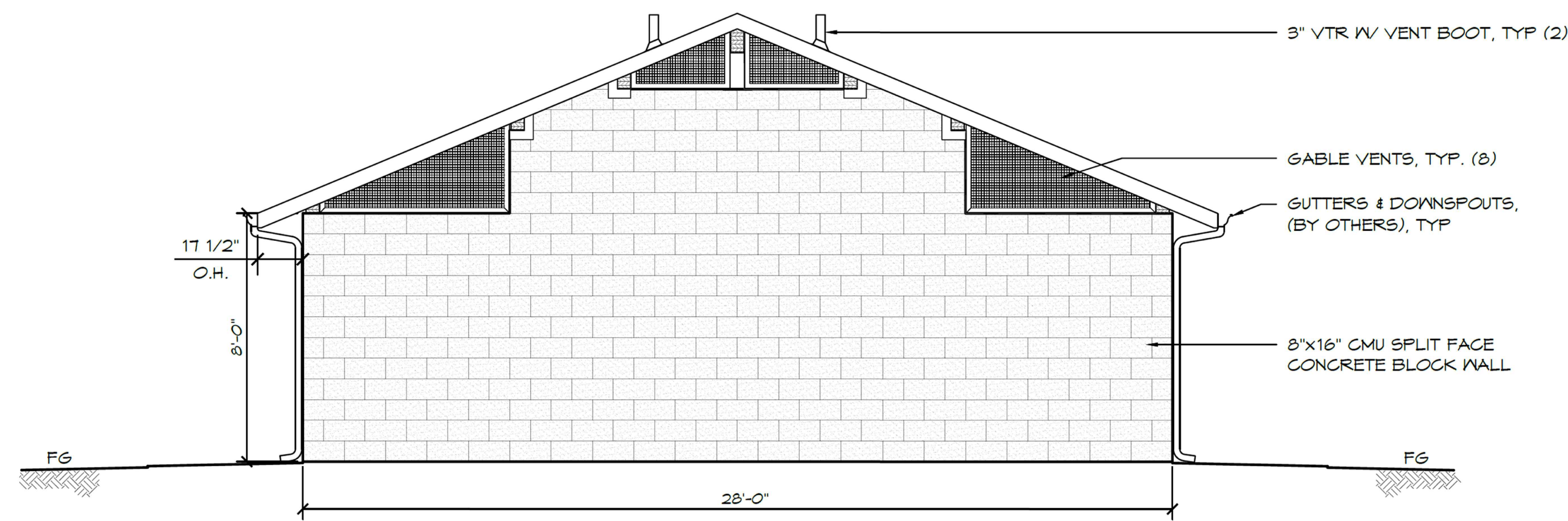
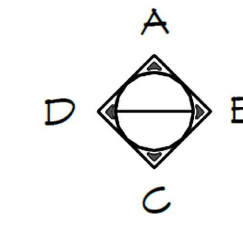
L800

WALL TYPE SCHEDULE	
	8" REINFORCED CONCRETE MASONRY BLOCK WALL WITH MORTAR JOINTS, GROUTED SOLID ALL CELLS RUNNING BOND PATTERN.

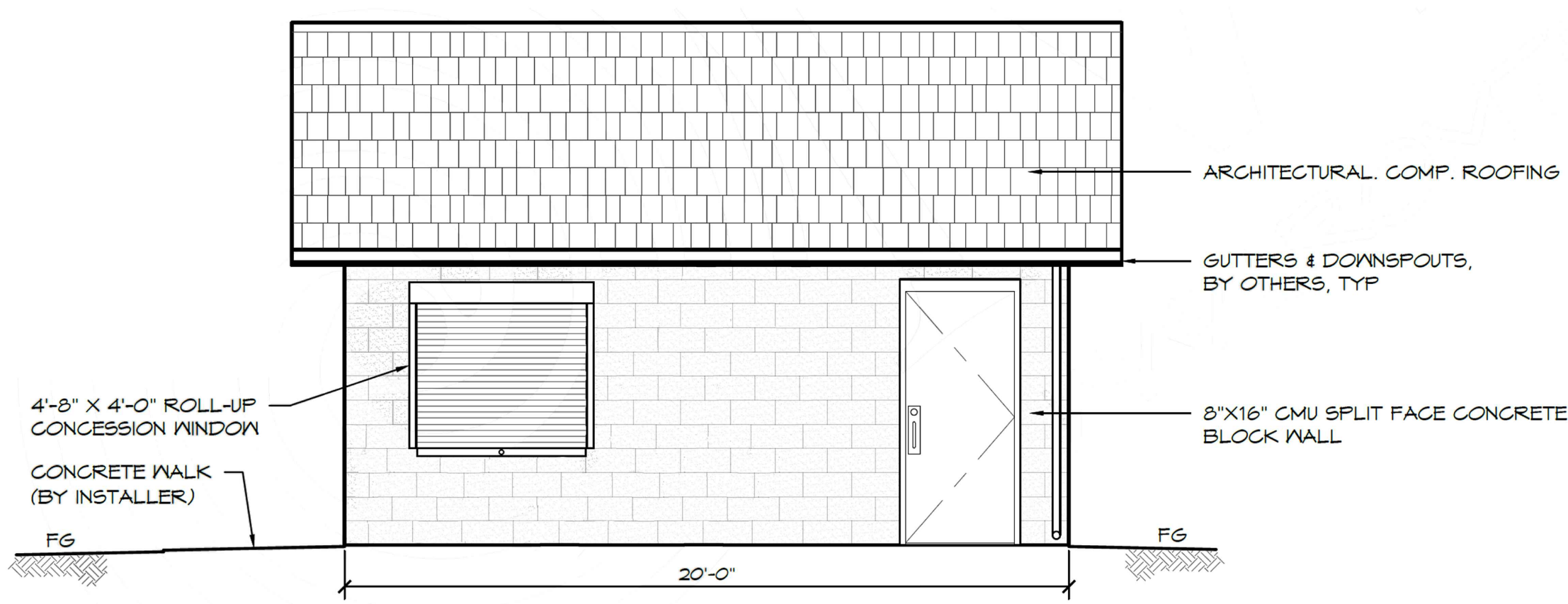
LEGEND		
SYMBOL	DESCRIPTION	AREA/ QUANTITY
	EXTERIOR WALL LIGHTS	8
	INTERIOR CEILING LIGHTS	7



1 FLOOR PLAN
 SCALE: 1/4" = 1'-0"



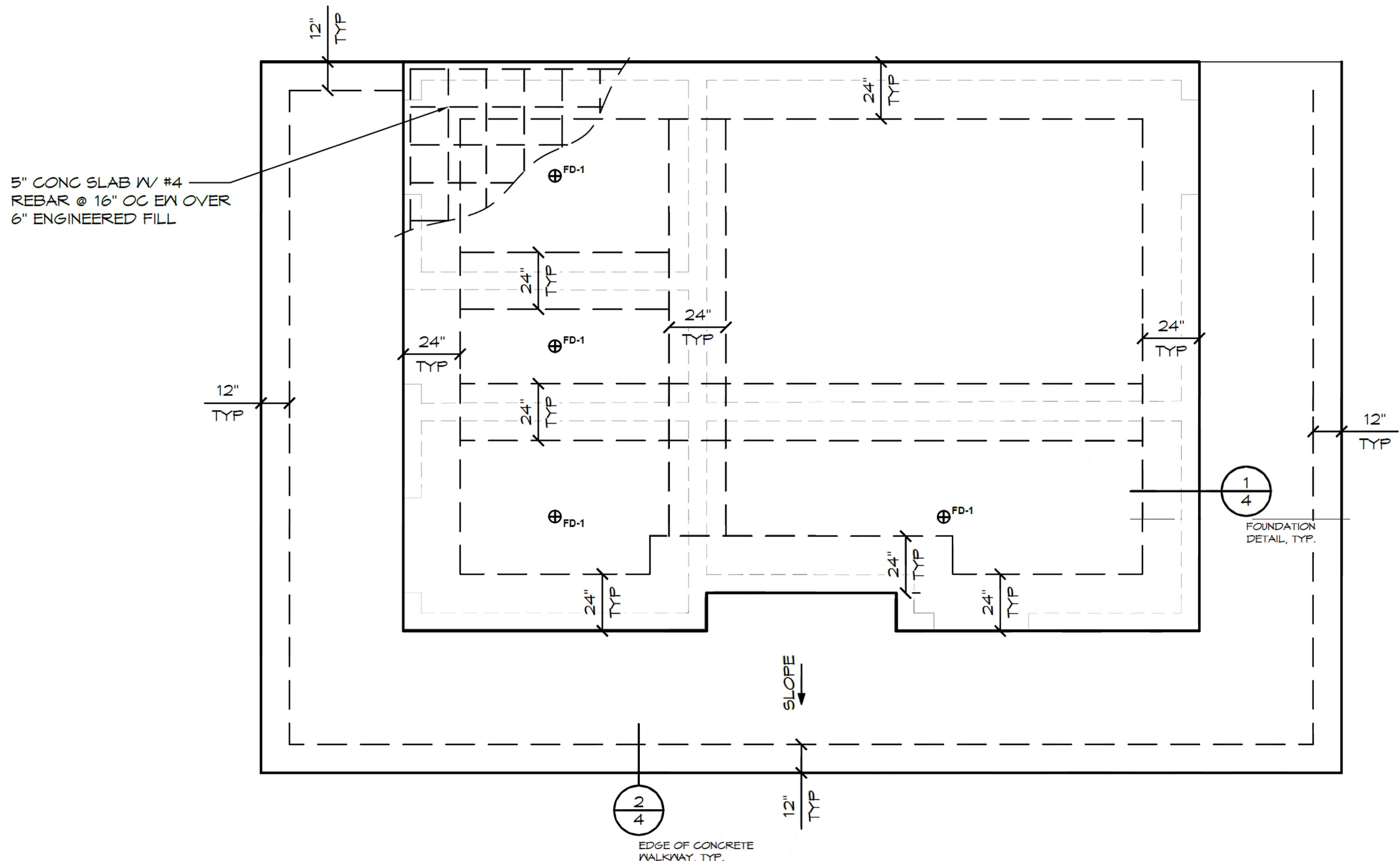
A ELEVATION VIEW
 SCALE: 1/4" = 1'-0"



B ELEVATION VIEW
 SCALE: 1/4" = 1'-0"

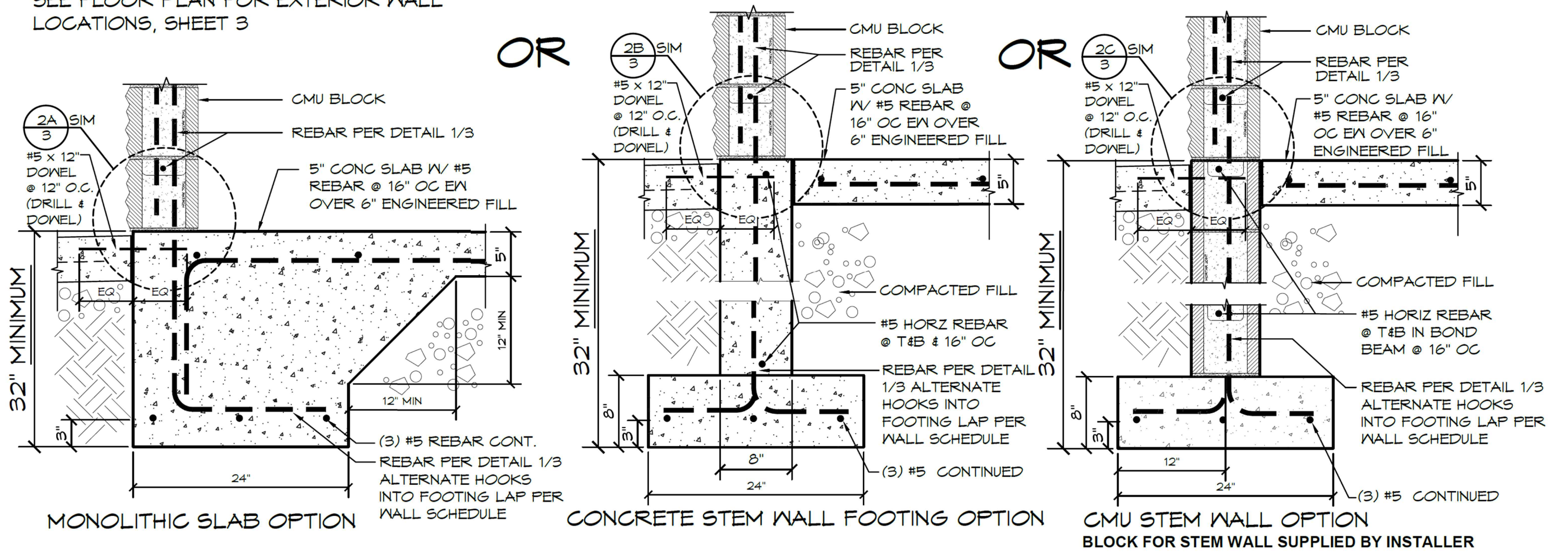
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NOTE:
PRE-ENGINEERED SUPPORT BUILDING DETAILS ARE FOR
REFERENCE AND BIDDING PURPOSES ONLY. SEE
SPECIFICATIONS FOR REQUIREMENTS.

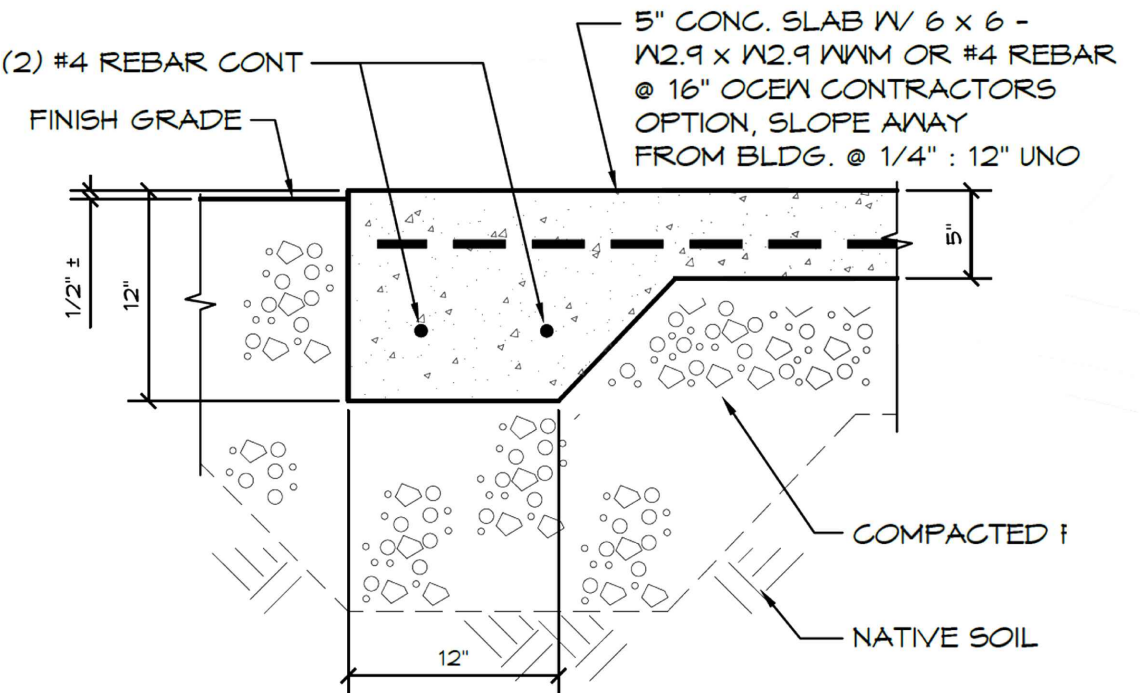


A FOUNDATION PLAN
SCALE: 1/4" = 1'-0"

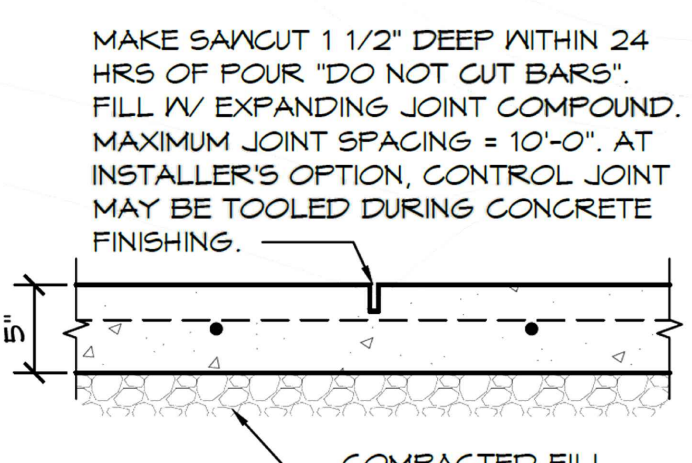
EXTERIOR WALL FOUNDATIONS - CHOOSE ONE OF THE FOLLOWING
SEE FLOOR PLAN FOR EXTERIOR WALL
LOCATIONS, SHEET 3



EXTERIOR WALL FOUNDATION DETAIL OPTIONS
SCALE: 1" = 1'-0"



2 EDGE OF CONG. WALKWAY
SCALE: 1" = 1'-0"



3 SAWCUT JOINT
SCALE: 1" = 1'-0"

GENERAL NOTES:
 * WHEN USING EITHER STEM WALL OPTION RECESS STEM WALL THE THICKNESS OF SLAB AT DOOR THRESHOLD
 * PRIVACY WALLS TO HAVE A 30" WIDE x 12" DEEP FOOTING, IF APPLICABLE
 * CMU STEM WALL OPTION, CMU BLOCK IS BY INSTALLER
 * VERTICAL REBAR IN SLAB/STEM WALL TO MATCH VERTICAL WALL REINFORCEMENT LAP PER WALL SCHEDULE

FOUNDATION DESIGN SHOWN HERE IS PRELIMINARY AND SUBJECT TO CHANGE. FINAL FOUNDATION DESIGN TO BE DETERMINED DURING THE FORTHCOMING FULL DESIGN PHASE FOR THE BUILDING. ANY INCREASED COSTS OR TIME NEEDED TO CONSTRUCT THE FINAL FOUNDATION DESIGN IS BETWEEN THE END OWNER AND THE BUILDING INSTALLER

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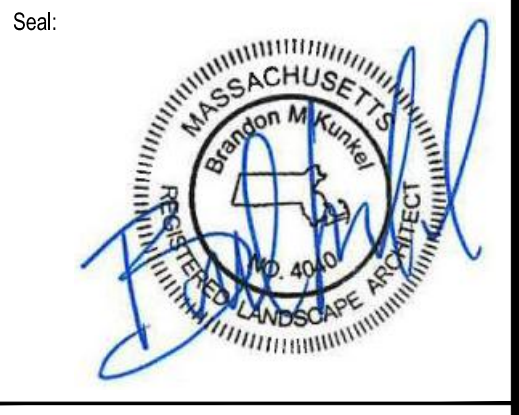
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 W&S File No.:

Drawing Title:
PRE-ENGINEERED
SUPPORT
BUILDING
DETAILS

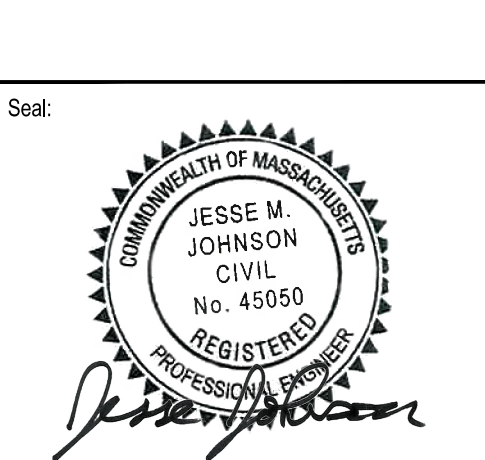
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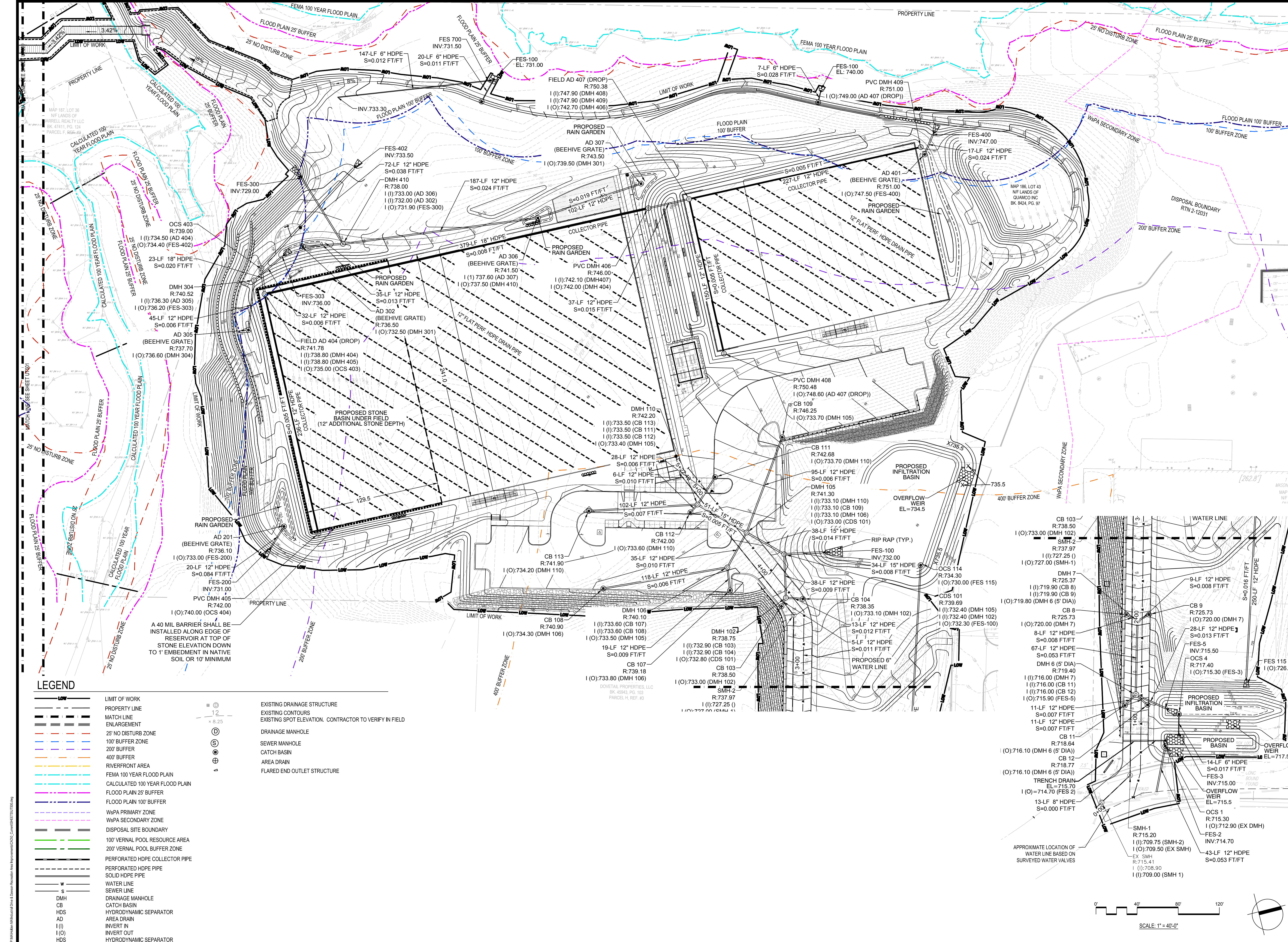
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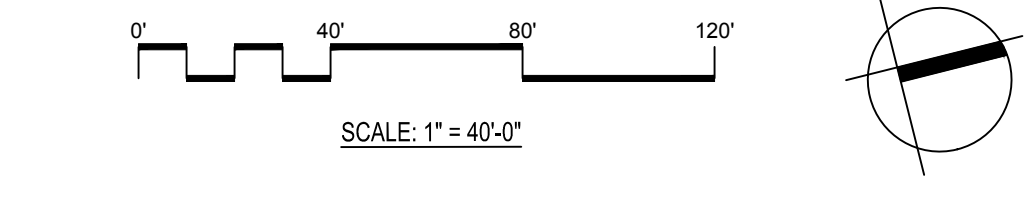
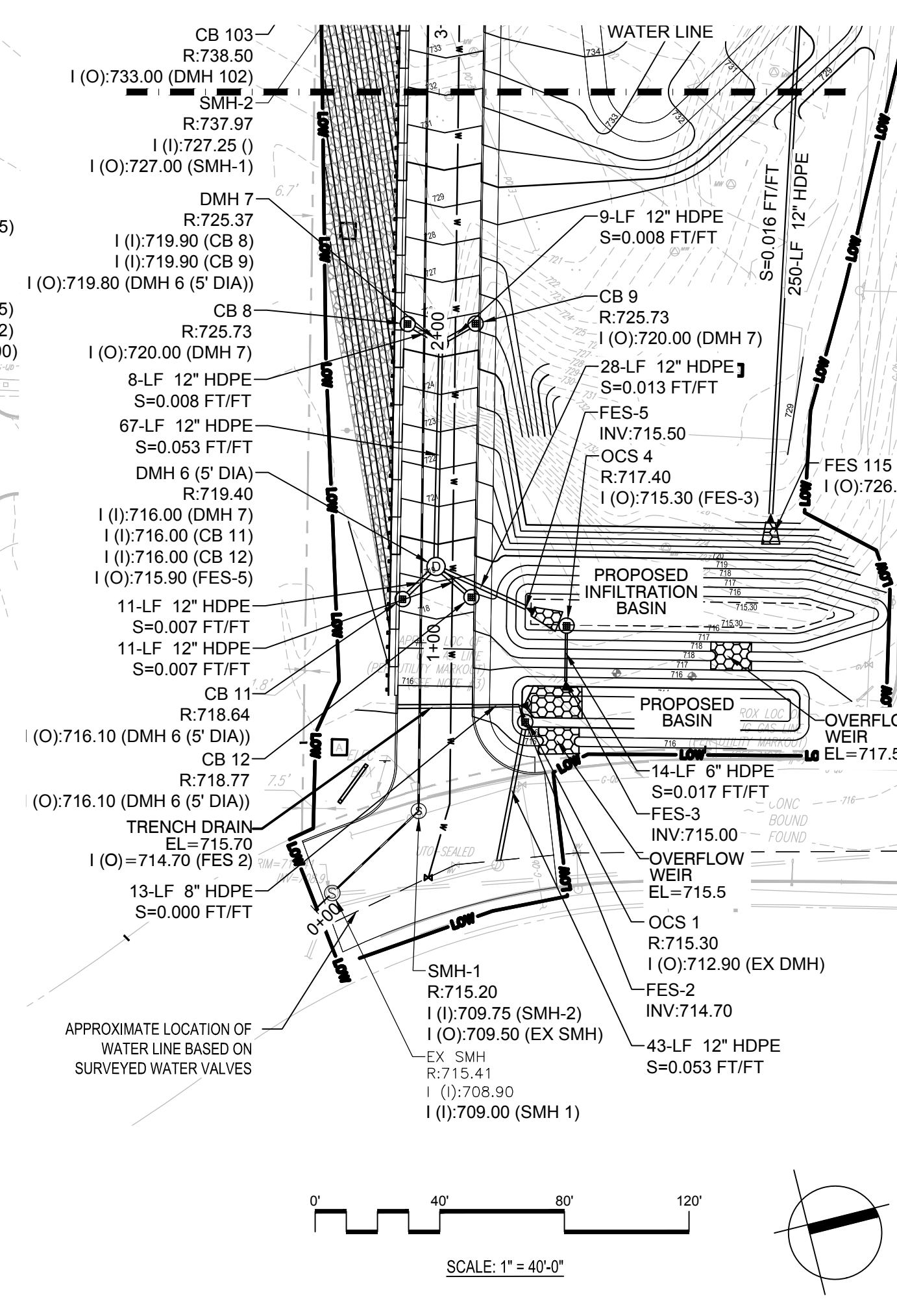
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**DRAINAGE & UTILITIES PLAN
INDUSTRIAL DRIVE**

Sheet Number:
UT500



LEGEND

(---) ---	LIMIT OF WORK	(---) ---	EXISTING DRAINAGE STRUCTURE
(---) ---	PROPERTY LINE	(---) ---	EXISTING CONTOURS
(---) ---	MATCH LINE ENLARGEMENT	(---) ---	EXISTING SPOT ELEVATION. CONTRACTOR TO VERIFY IN FIELD
(---) ---	25' NO DISTURB ZONE	(---) ---	DRAINAGE MANHOLE
(---) ---	100' BUFFER ZONE	(---) ---	SEWER MANHOLE
(---) ---	200' BUFFER ZONE	(---) ---	CATCH BASIN
(---) ---	400' BUFFER ZONE	(---) ---	AREA DRAIN
(---) ---	RIVERFRONT AREA	(---) ---	FLARED END OUTLET STRUCTURE
(---) ---	FEMA 100 YEAR FLOOD PLAIN	(---) ---	
(---) ---	CALCULATED 100 YEAR FLOOD PLAIN	(---) ---	
(---) ---	FLOOD PLAIN 25' BUFFER	(---) ---	
(---) ---	FLOOD PLAIN 100' BUFFER	(---) ---	
(---) ---	WSPA PRIMARY ZONE	(---) ---	
(---) ---	WSPA SECONDARY ZONE	(---) ---	
(---) ---	DISPOSAL SITE BOUNDARY	(---) ---	
(---) ---	100' VERNAL POOL RESOURCE AREA	(---) ---	
(---) ---	200' VERNAL POOL BUFFER ZONE	(---) ---	
(---) ---	PERFORATED HDPE COLLECTOR PIPE	(---) ---	
(---) ---	PERFORATED HDPE PIPE	(---) ---	
(---) ---	SOLID HDPE PIPE	(---) ---	
(---) ---	WATER LINE	(---) ---	
(---) ---	SEWER LINE	(---) ---	
(---) ---	DRAINAGE MANHOLE	(---) ---	
(---) ---	CATCH BASIN	(---) ---	
(---) ---	HYDRODYNAMIC SEPARATOR	(---) ---	
(---) ---	AREA DRAIN	(---) ---	
(---) ---	INVERT IN	(---) ---	
(---) ---	INVERT OUT	(---) ---	
(---) ---	HYDRODYNAMIC SEPARATOR	(---) ---	



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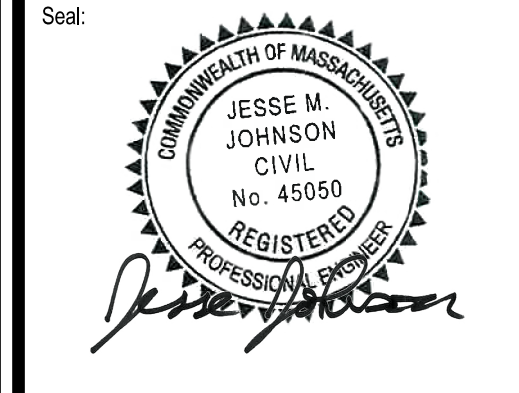
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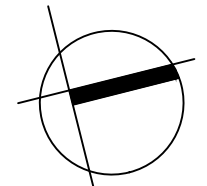
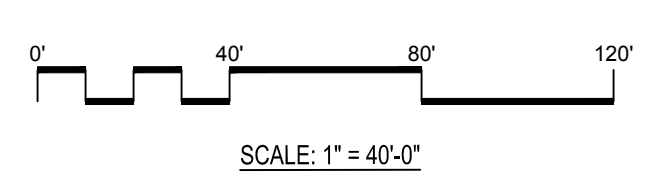
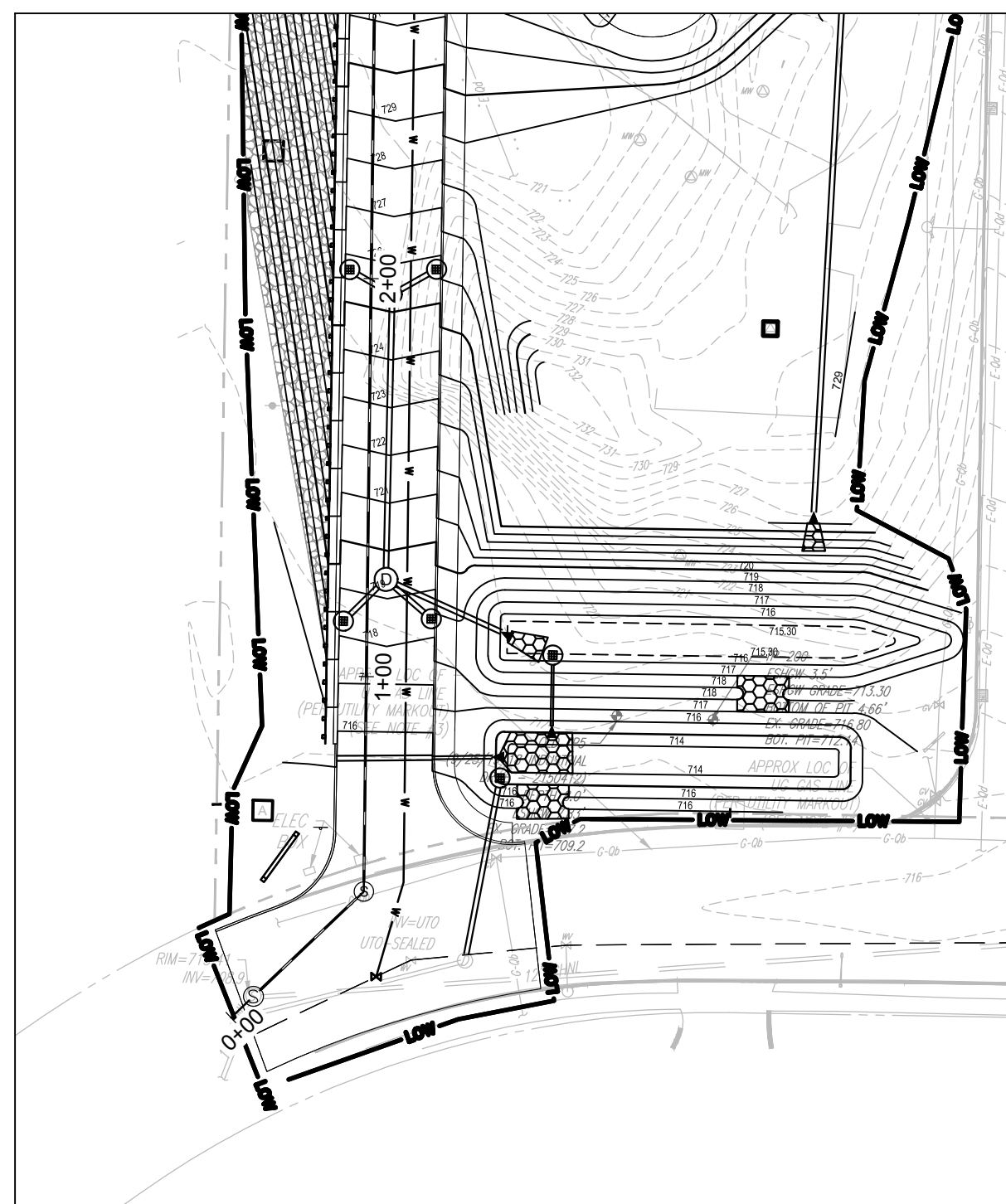
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 Approved By: BK
 W&S Project No.: ENG22 - 0852
 W&S File No.:

Drawing Title:
**DRAINAGE &
 UTILITIES PLAN
 INDUSTRIAL
 DRIVE**

Sheet Number:
UT500A

LEGEND

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	PROPERTY LINE		EXISTING CONTOURS
	MATCH LINE		EXISTING SPOT ELEVATION. CONTRACTOR TO VERIFY IN FIELD
	ENLARGEMENT		DRAINAGE MANHOLE
	25' NO DISTURB ZONE		SEWER MANHOLE
	100' BUFFER ZONE		CATCH BASIN
	200' BUFFER		AREA DRAIN
	400' BUFFER		FLARED END OUTLET STRUCTURE
	RIVERFRONT AREA		
	FEMA 100 YEAR FLOOD PLAIN		
	CALCULATED 100 YEAR FLOOD PLAIN		
	FLOOD PLAIN 25' BUFFER		
	FLOOD PLAIN 100' BUFFER		
	WSPA PRIMARY ZONE		
	WSPA SECONDARY ZONE		
	DISPOSAL SITE BOUNDARY		
	100' VERNAL POOL RESOURCE AREA		
	200' VERNAL POOL BUFFER ZONE		
	PERFORATED HDPE COLLECTOR PIPE		
	PERFORATED HDPE PIPE		
	SOLID HDPE PIPE		
	WATER LINE		
	SEWER LINE		
	DRAINAGE MANHOLE		
	CATCH BASIN		
	HYDRODYNAMIC SEPARATOR		
	AREA DRAIN		
	INVERT IN		
	INVERT OUT		
	HYDRODYNAMIC SEPARATOR		



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 User: jjohnson



LEGEND

	LIMIT OF WORK
	PROPERTY LINE
	MATCH LINE
	ENLARGEMENT
	25' NO DISTURB ZONE
	100' BUFFER ZONE
	200' BUFFER ZONE
	400' BUFFER ZONE
	RIVERFRONT AREA
	FEMA 100 YEAR FLOOD PLAIN
	CALCULATED 100 YEAR FLOOD PLAIN
	FLOOD PLAIN 25' BUFFER
	FLOOD PLAIN 100' BUFFER
	W&PA PRIMARY ZONE
	W&PA SECONDARY ZONE
	DISPOSAL SITE BOUNDARY
	100' VERNAL POOL RESOURCE AREA
	200' VERNAL POOL BUFFER ZONE
	EXISTING DRAINAGE STRUCTURE
	EXISTING CONTOURS
	EXISTING SPOT ELEVATION. CONTRACTOR TO VERIFY IN FIELD
	DRAINAGE MANHOLE
	SEWER MANHOLE
	CATCH BASIN
	AREA DRAIN
	FLARED END OUTLET STRUCTURE
	PERFORATED HDPE COLLECTOR PIPE
	PERFORATED HDPE PIPE
	SOLID HDPE PIPE
	WATER LINE
	SEWER LINE
	DRAINAGE MANHOLE
	CATCH BASIN
	HYDRODYNAMIC SEPARATOR
	AREA DRAIN
	INVERT IN
	INVERT OUT
	HYDRODYNAMIC SEPARATOR

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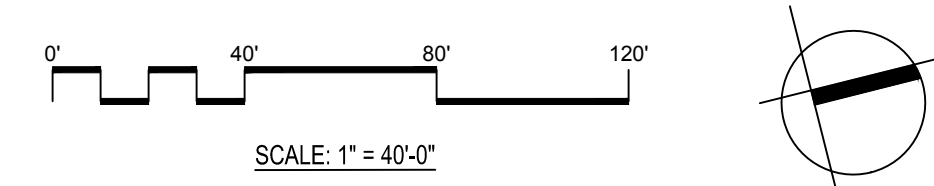
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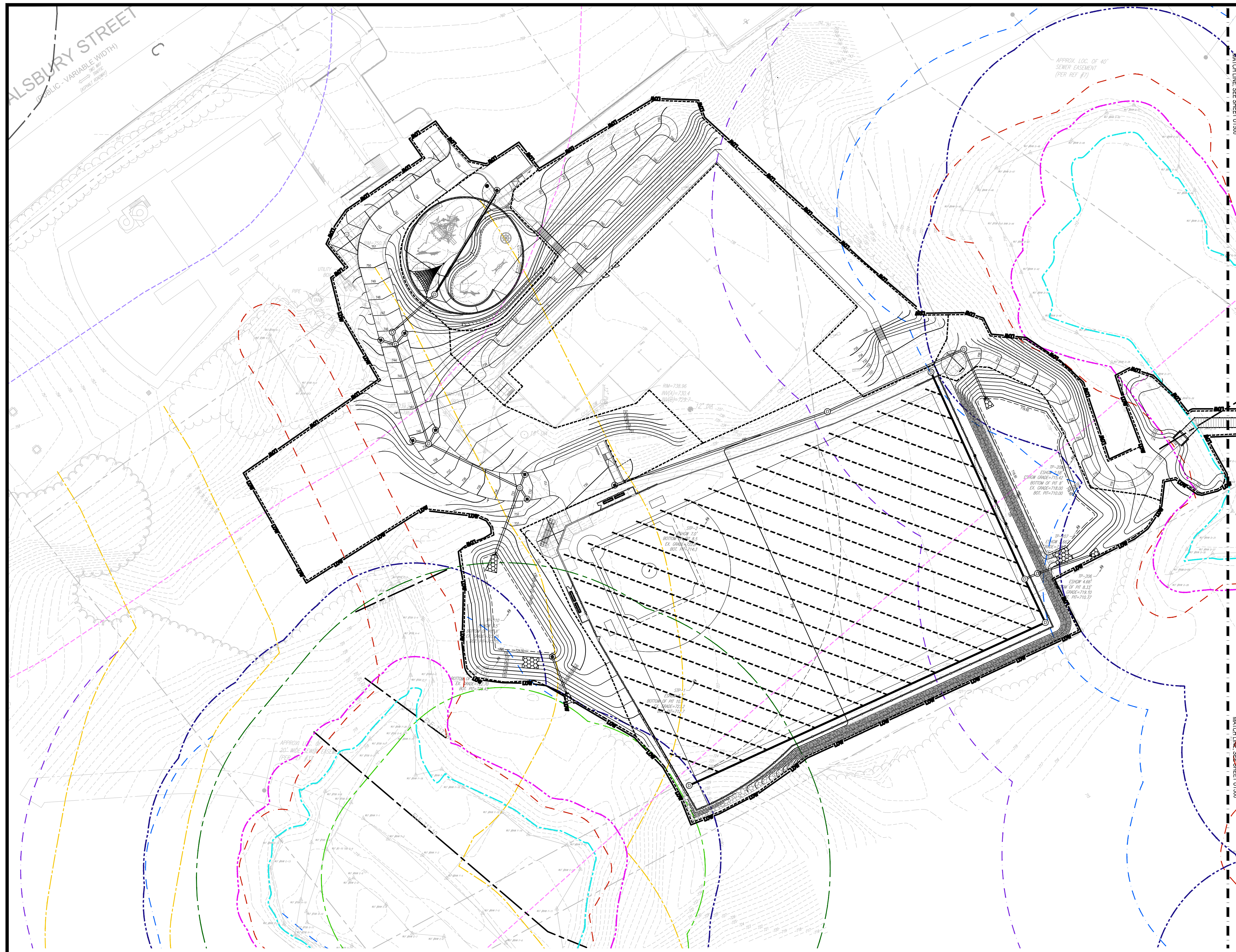
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**DRAINAGE &
 UTILITIES PLAN
 DAWSON
 RECREATION**

Sheet Number:
UT501





LEGEND

- LIMIT OF WORK
- PROPERTY LINE
- MATCH LINE
- ENLARGEMENT
- 25' NO DISTURB ZONE
- 100' BUFFER ZONE
- 200' BUFFER
- 400' BUFFER
- RIVERFRONT AREA
- FEMA 100 YEAR FLOOD PLAIN
- CALCULATED 100 YEAR FLOOD PLAIN
- FLOOD PLAIN 25' BUFFER
- FLOOD PLAIN 100' BUFFER
- W&PA PRIMARY ZONE
- W&PA SECONDARY ZONE
- DISPOSAL SITE BOUNDARY
- 100' VERNAL POOL RESOURCE AREA
- 200' VERNAL POOL BUFFER ZONE
- EXISTING DRAINAGE STRUCTURE
- EXISTING CONTOURS
- EXISTING SPOT ELEVATION. CONTRACTOR TO VERIFY IN FIELD
- DRAINAGE MANHOLE
- SEWER MANHOLE
- CATCH BASIN
- AREA DRAIN
- FLARED END OUTLET STRUCTURE
- PERFORATED HDPE COLLECTOR PIPE
- PERFORATED HDPE PIPE
- SOLID HDPE PIPE
- WATER LINE
- SEWER LINE
- DMH DRAINAGE MANHOLE
- CB CATCH BASIN
- HDS HYDRODYNAMIC SEPARATOR
- AD AREA DRAIN
- (I) INVERT IN
- (O) INVERT OUT
- HDS HYDRODYNAMIC SEPARATOR



Project:
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 Approved By: BK
 W&S Project No.: ENG22 - 0852
 W&S File No.:

Drawing Title:
**DRAINAGE &
 UTILITIES PLAN
 DAWSON
 RECREATION**

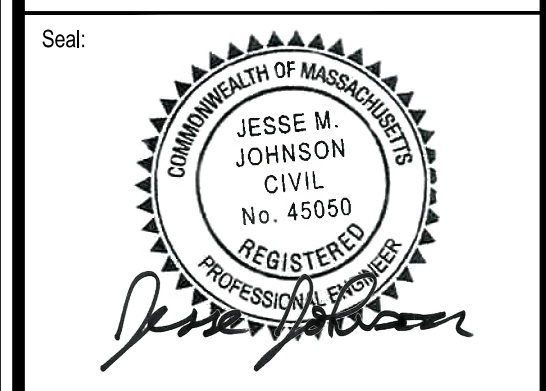
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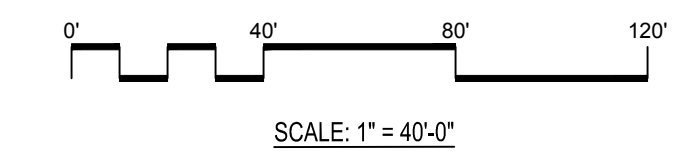
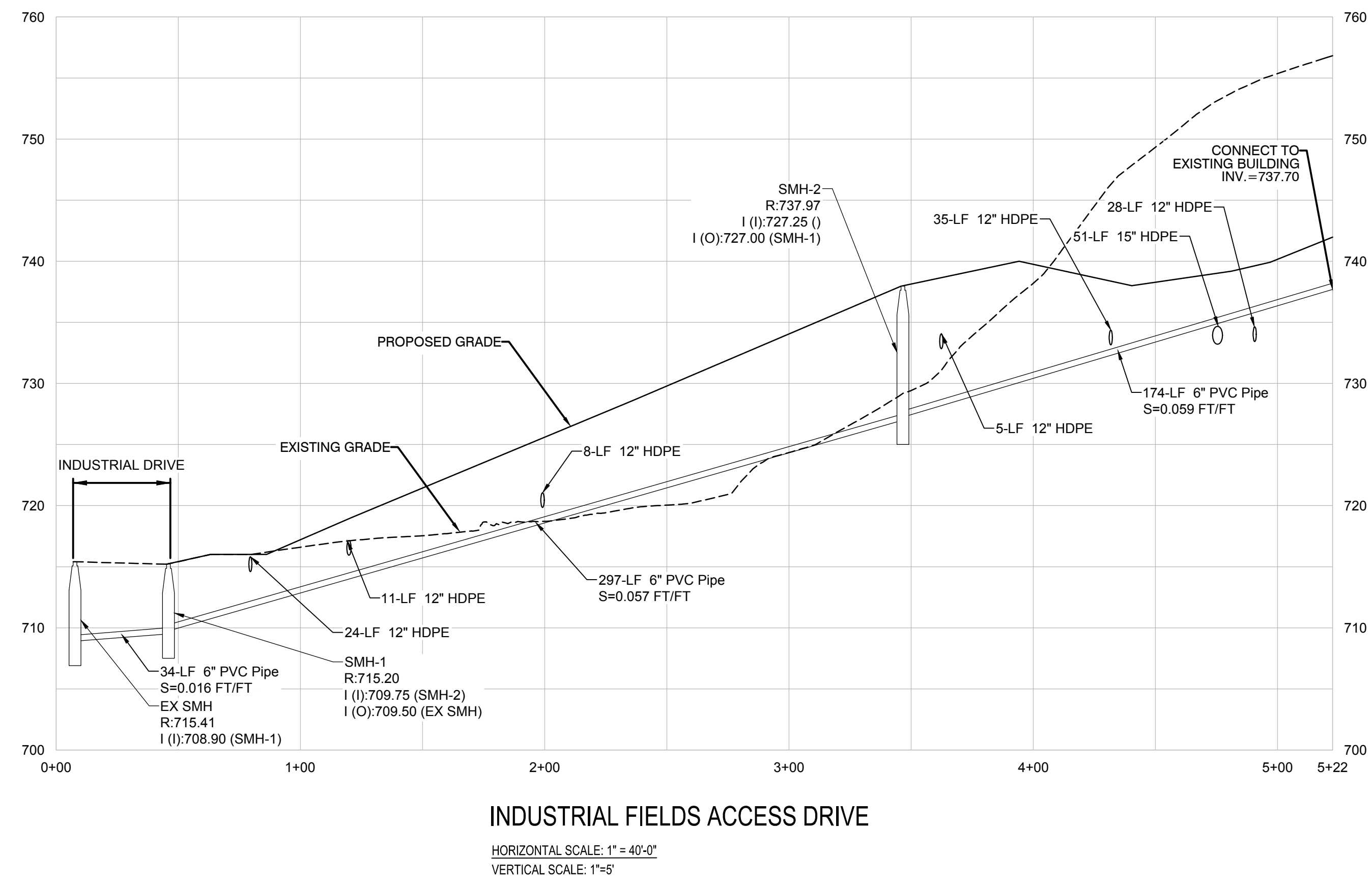
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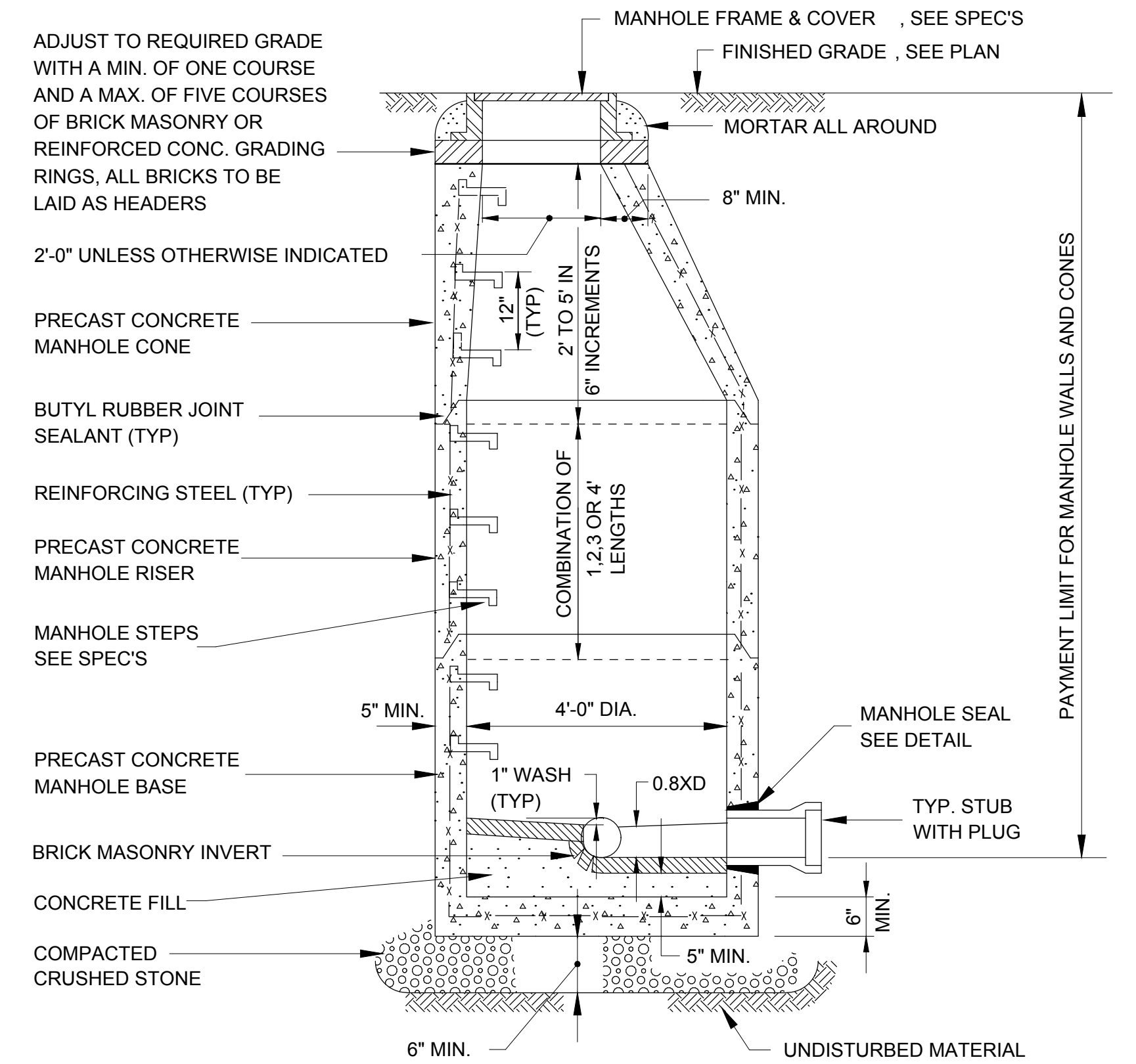
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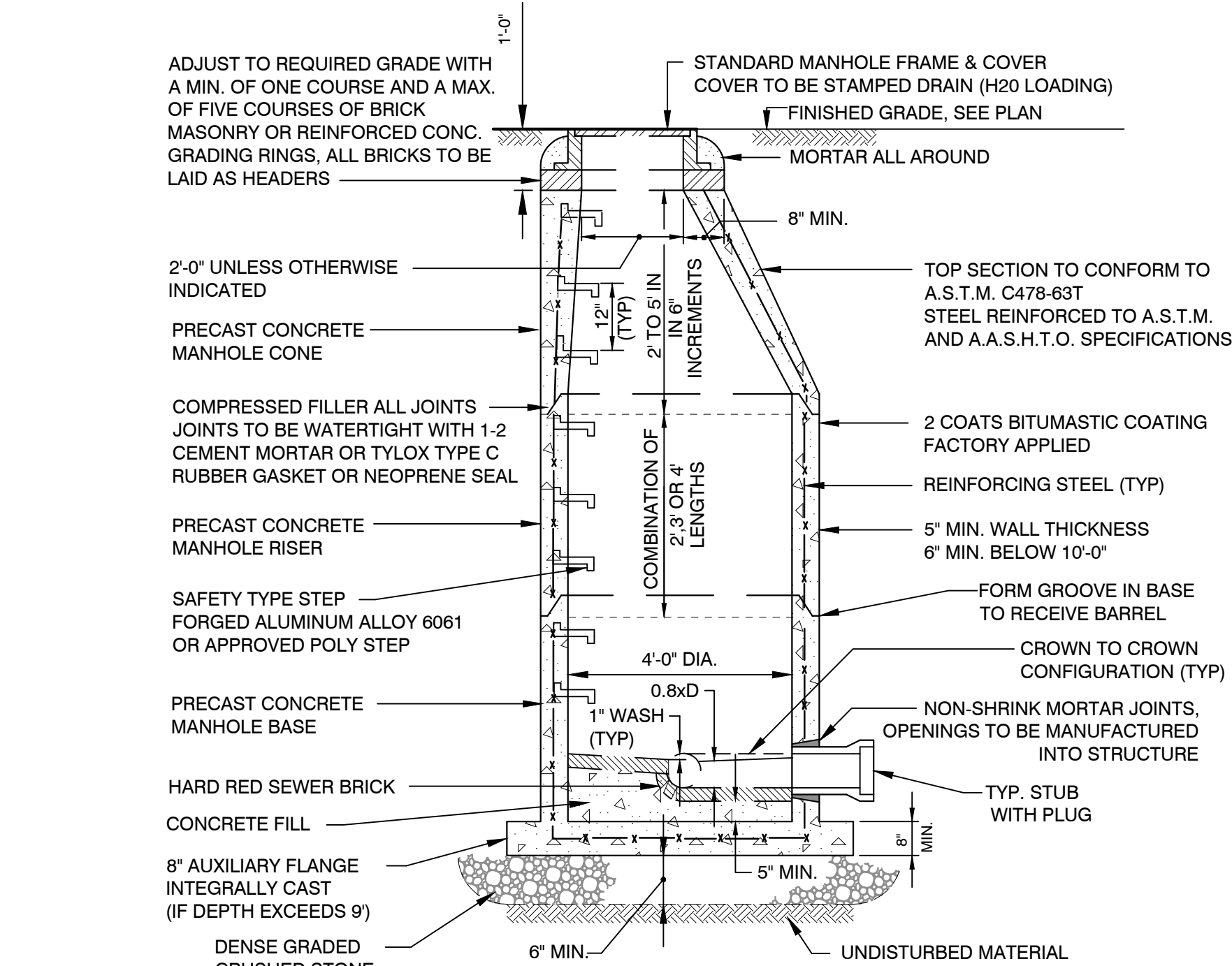
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Sheet Number:
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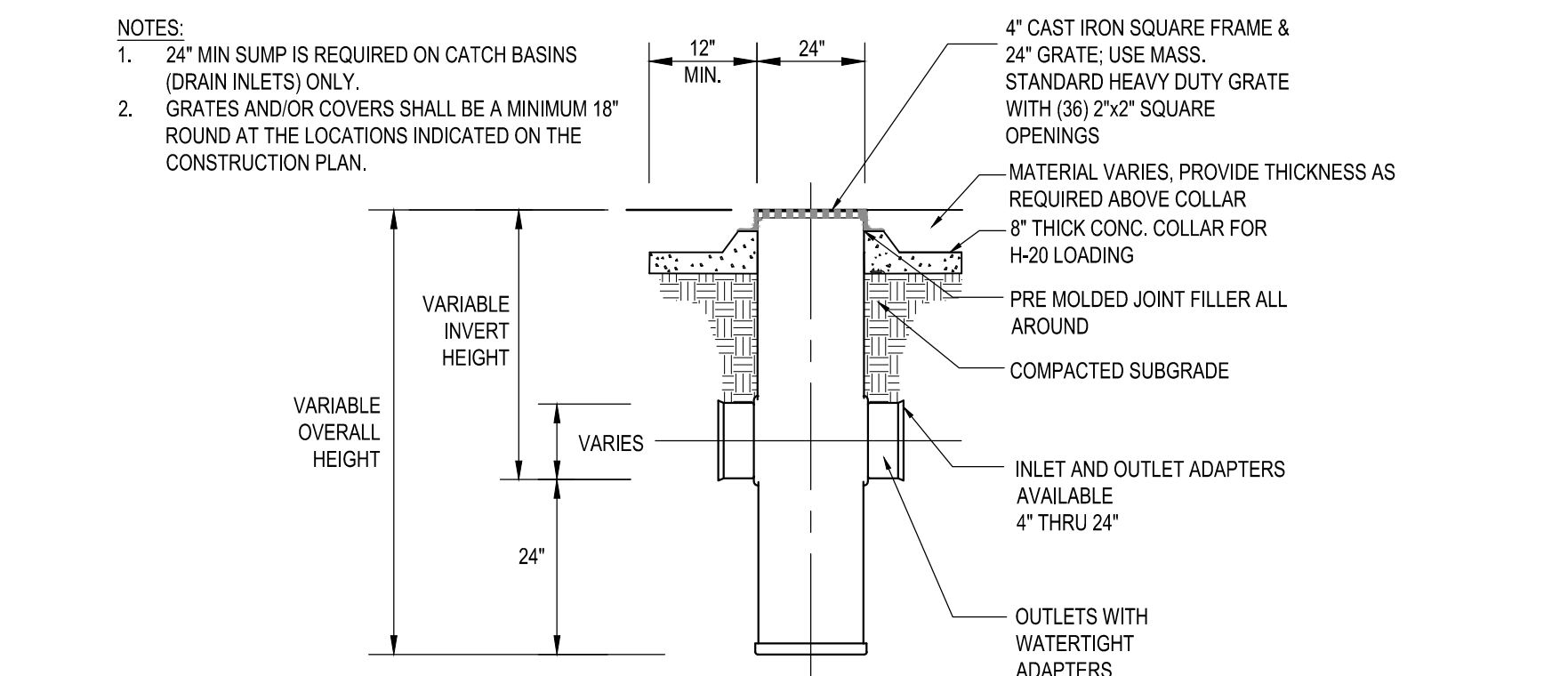




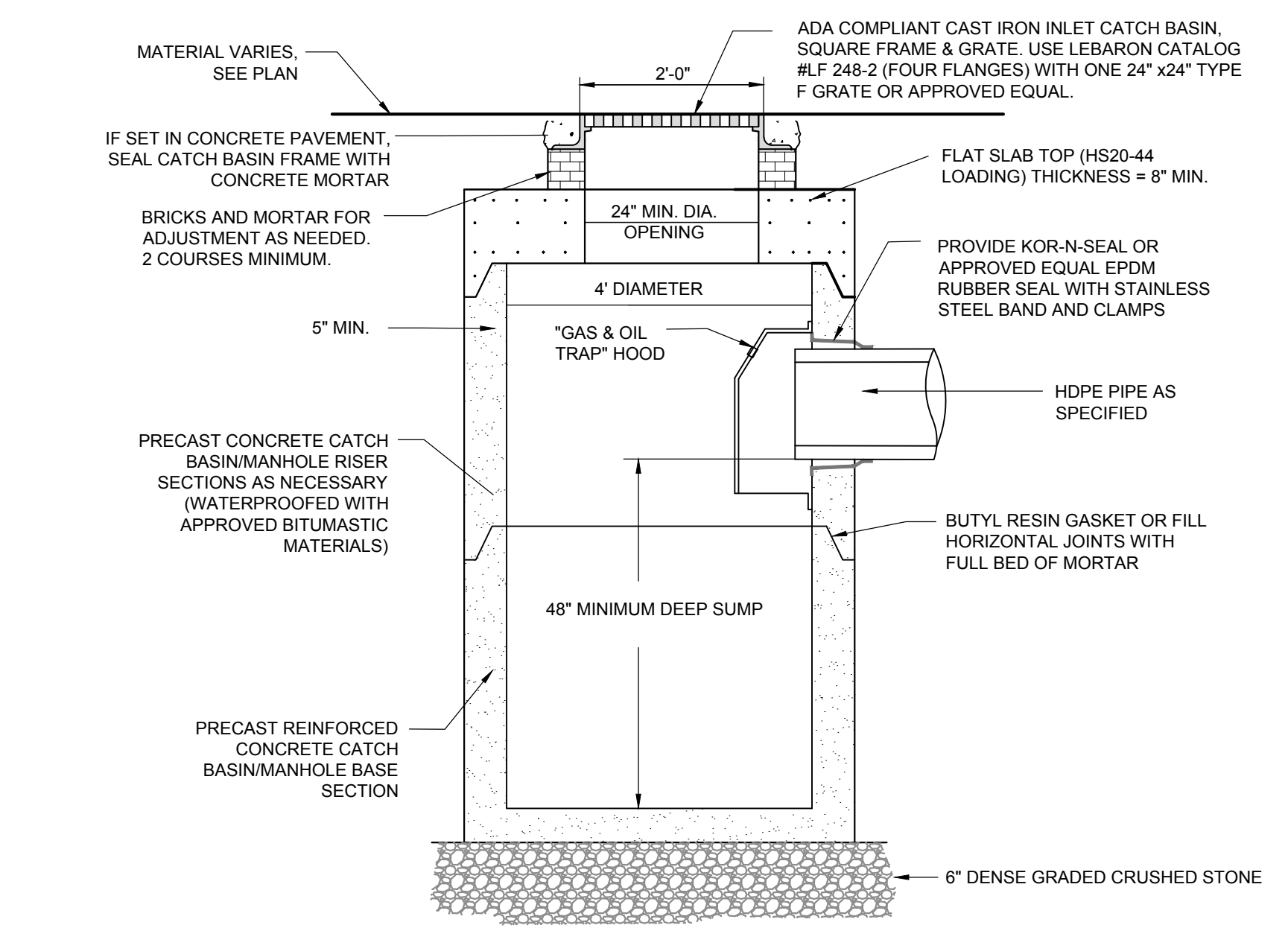
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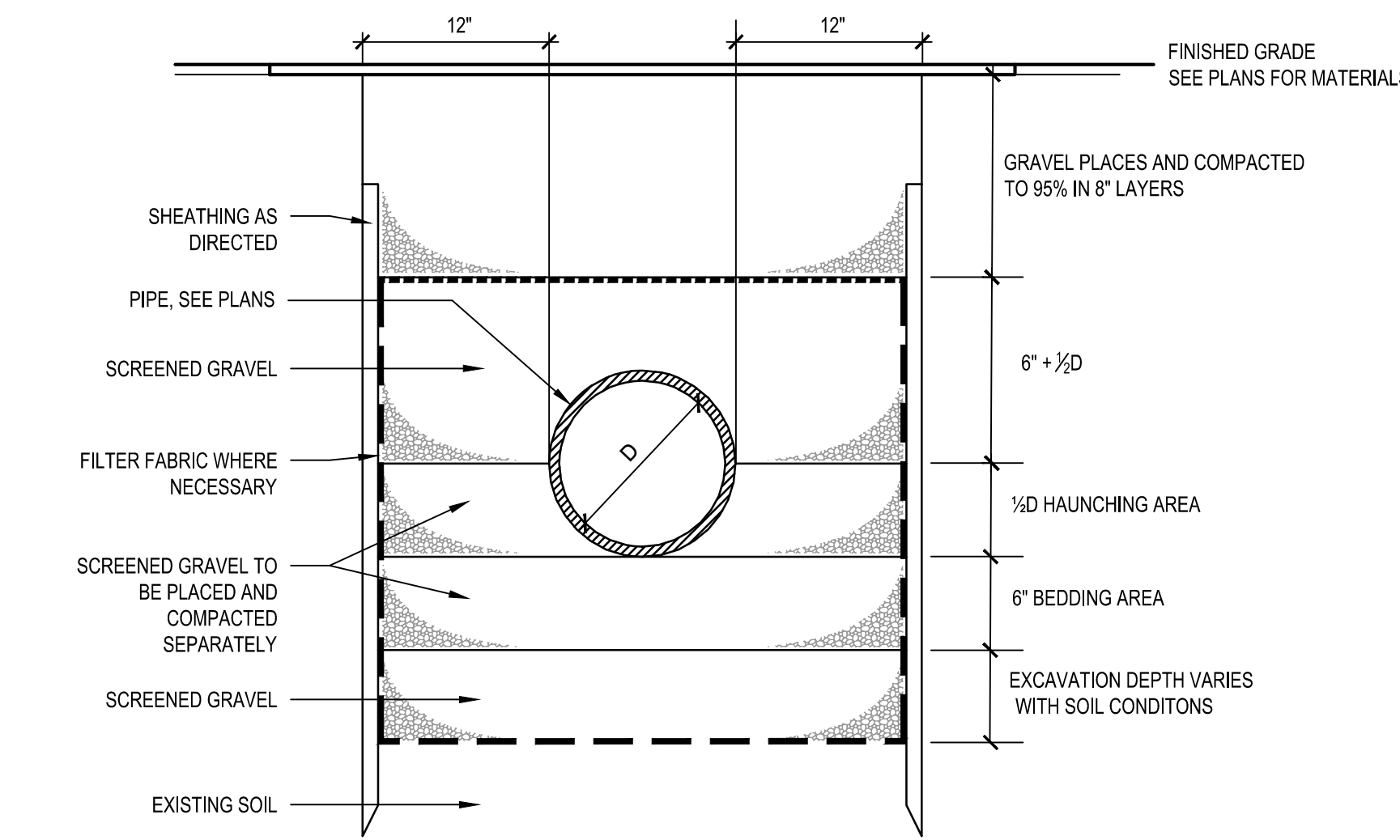
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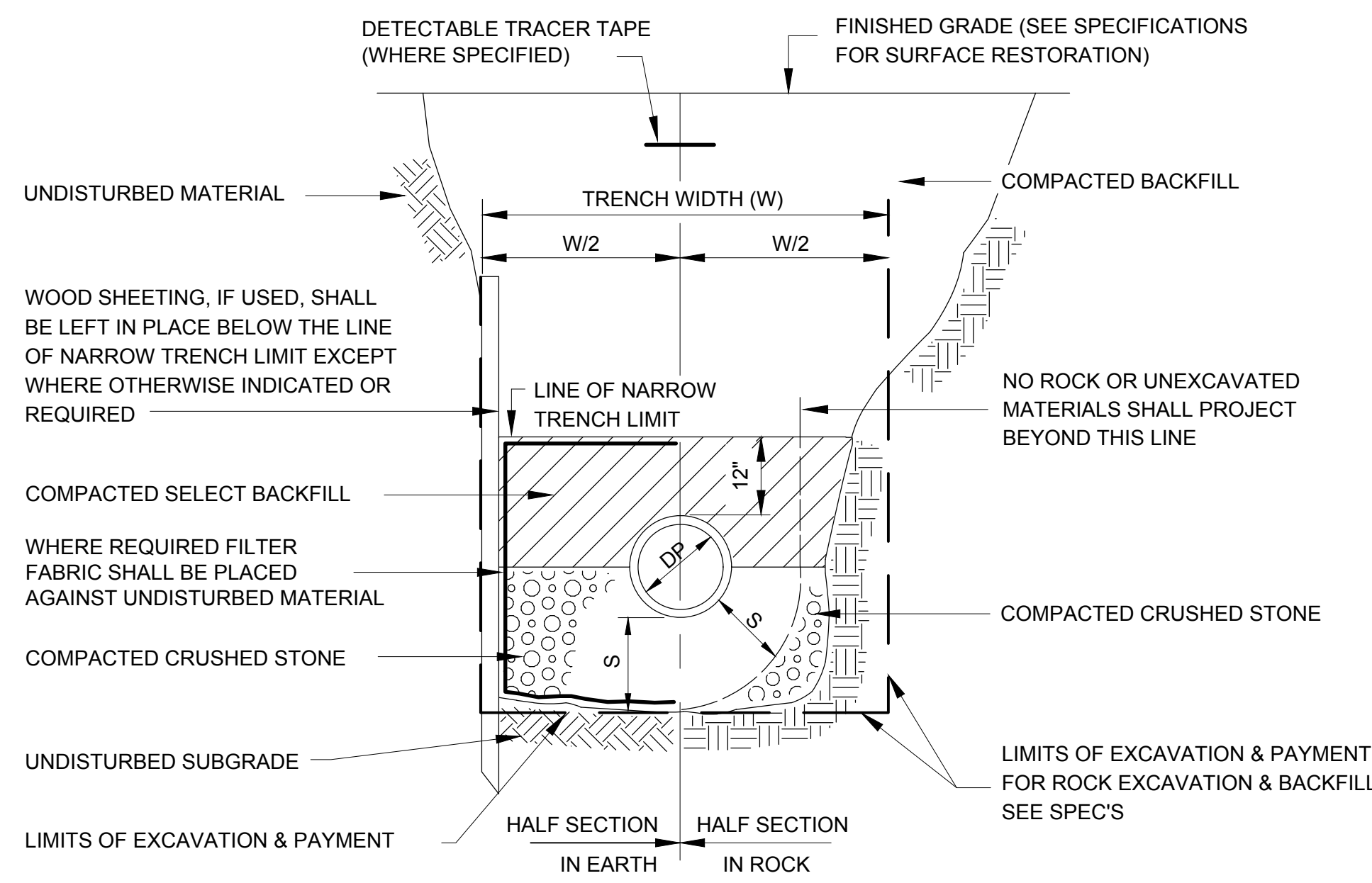
5 PVC AREA DRAIN
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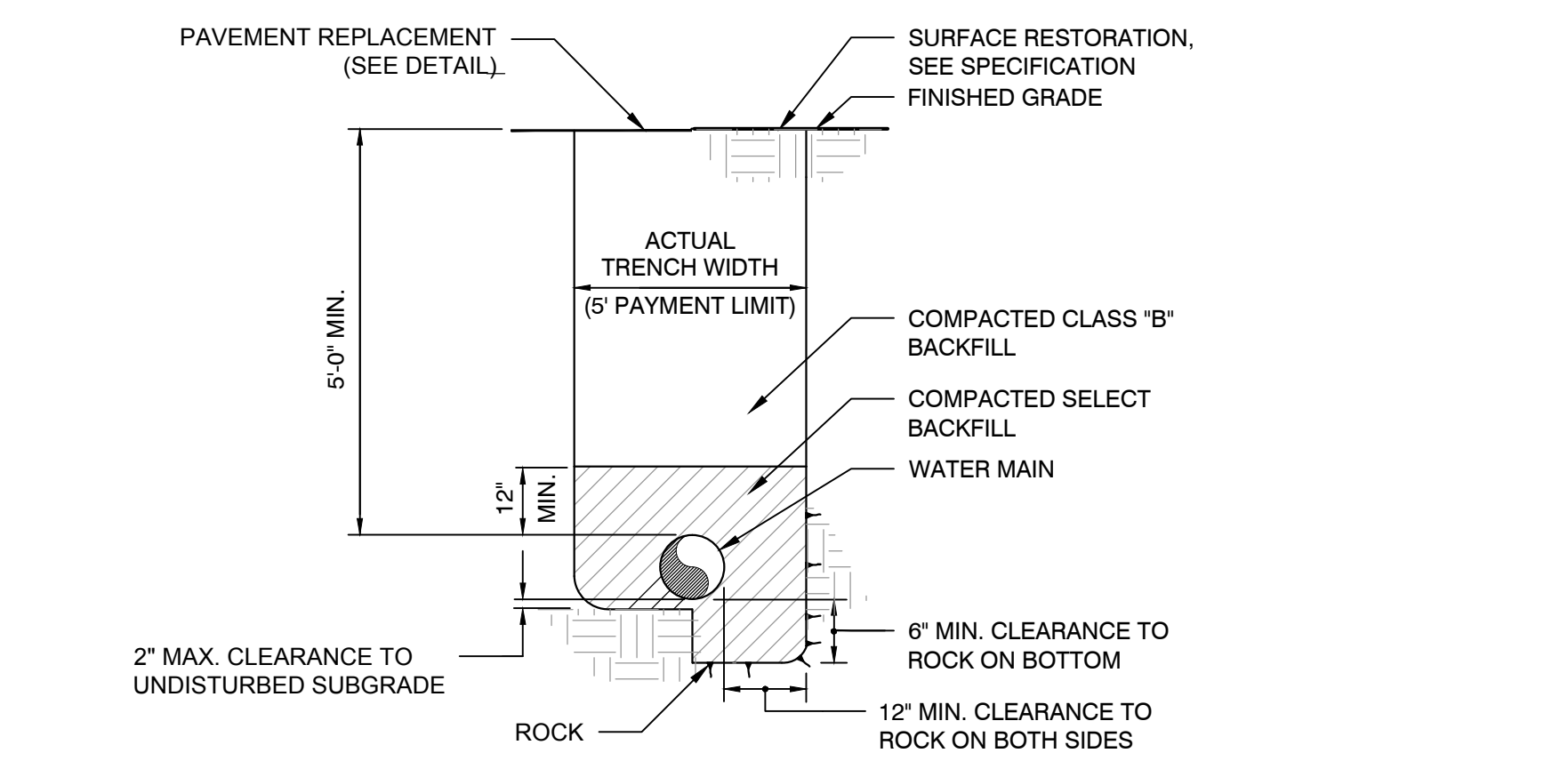
3 CATCH BASIN
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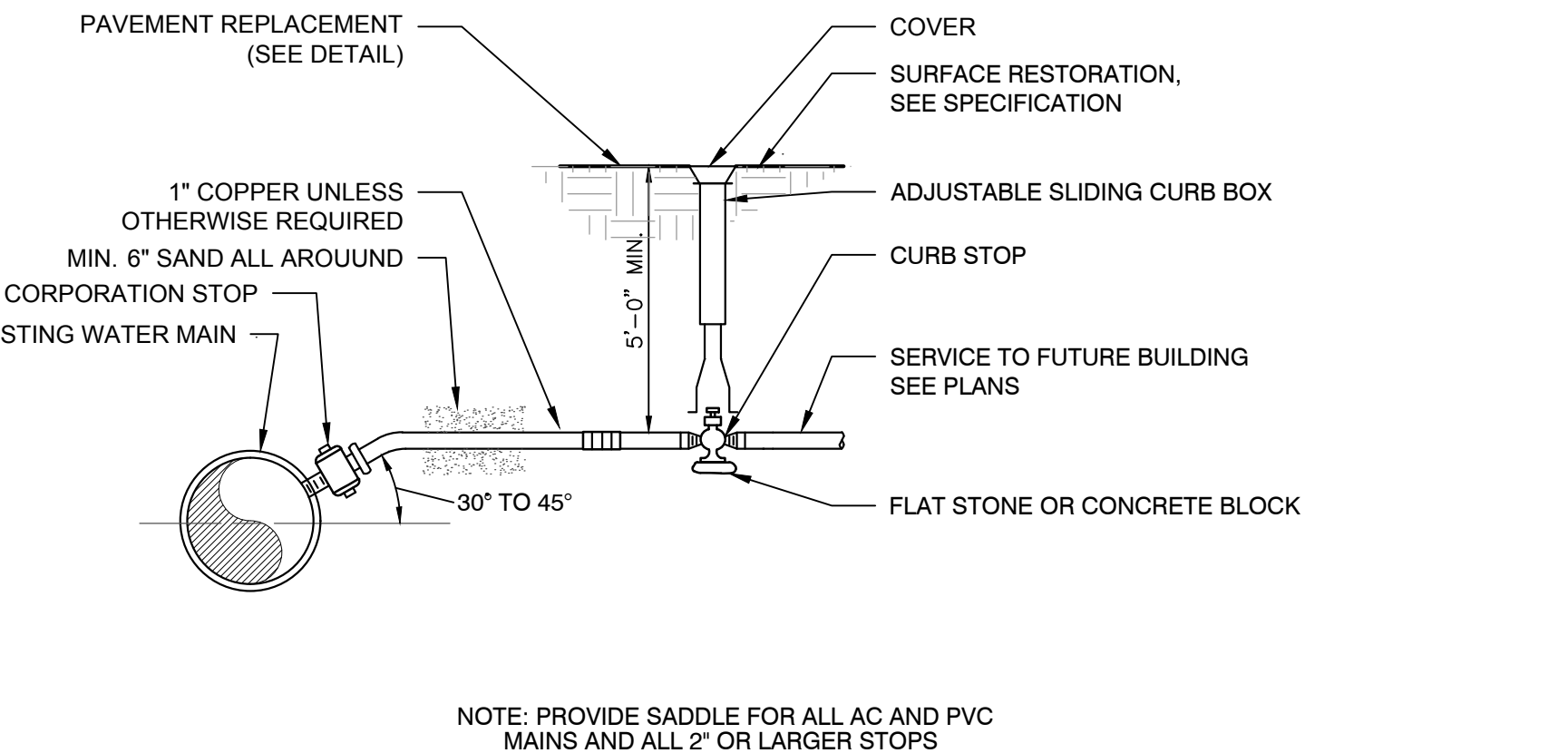
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4 SEWER TRENCH
SCALE: N.T.S.



7 WATER MAIN TRENCH
SCALE: N.T.S.



8 WATER SERVICE DETAIL
SCALE: N.T.S.

Project:
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Drawing Title:
DRAINAGE & UTILITIES DETAILS
UT700

Sheet Number:

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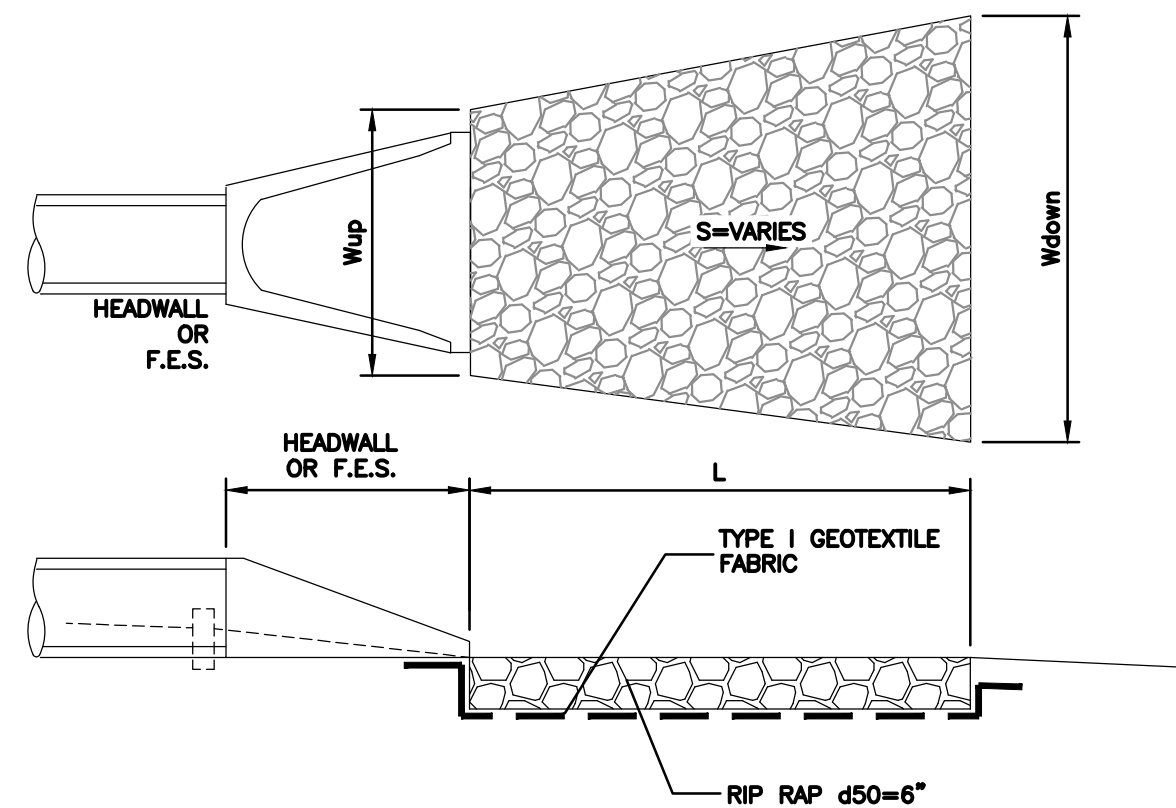
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DRAINAGE & UTILITIES DETAILS

Sheet Number:
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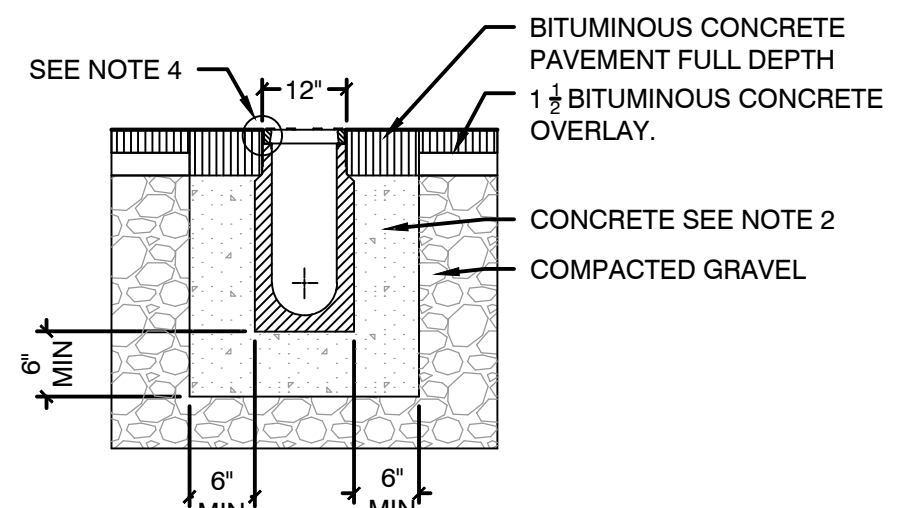


OUTLET	L	Wup	Wdown
FES 2	5.2	2.0	4.1
FES 3	5.2	2.0	4.1
FES 5	9.1	3.0	6.7
FES 100	16.7	3.8	10.4
FES 115	7.0	3.0	5.8
FES 200	7.8	3.0	6.1
FES 300	11.3	3.0	7.5
FES 303	7.2	3.0	5.9
FES 400	7.4	3.0	6.0
FES 402	12.9	4.5	9.6
FES 500	7.0	3.0	5.8
FES 509	8.5	3.0	6.4
FES 600	8.2	3.0	6.3
FES 602	13.8	3.8	9.3

- CONSTRUCTION SPECIFICATIONS**
- THE SUBGRADE FOR THE GEOTEXTILE FABRIC AND RIP-RAP SHALL BE PREPARED TO THE LINES AND GRADES SHOWN ON THE PLANS.
 - THE ROCK USED FOR RIP-RAP SHALL CONFORM TO THE SPECIFIED GRADATION (d50=6").
 - GEOTEXTILE FABRICS SHALL BE PROTECTED FROM PUNCTURE OR TEARING DURING THE PLACEMENT OF THE ROCK RIP-RAP. DAMAGED AREAS IN THE FABRIC SHALL BE REPAIRED BY PLACING A PIECE OF FABRIC OVER THE DAMAGED AREA OR BY COMPLETE REPLACEMENT OF THE FABRIC. ALL OVERLAPS REQUIRED FOR REPAIRS OR JOINING TWO PIECES OF FABRIC SHALL BE A MINIMUM OF 12 INCHES.
 - STONE FOR THE RIP-RAP MAY BE PLACED BY EQUIPMENT AND SHALL BE CONSTRUCTED TO THE FULL LAYER THICKNESS IN ONE OPERATION AND IN SUCH A MANNER AS TO PREVENT SEGREGATION OF THE STONE SIZES.

RIP RAP APRON

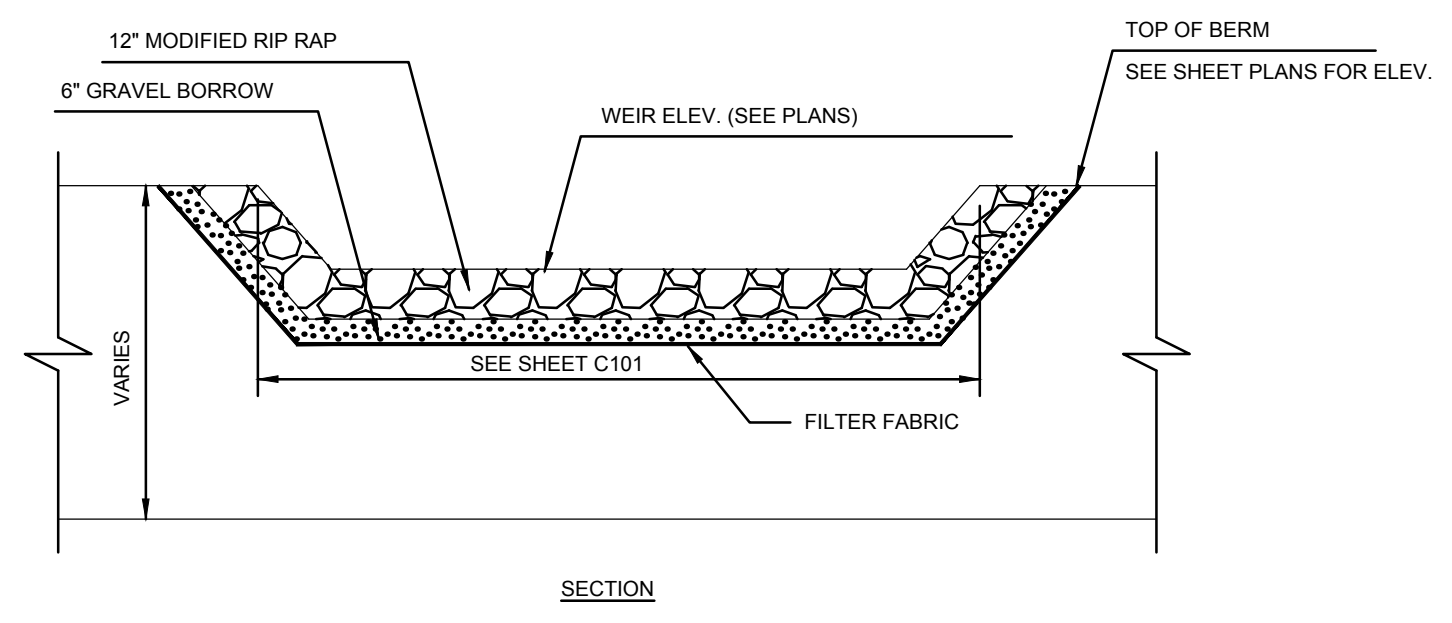
NOT TO SCALE



- NOTES:**
- CONTRACTOR TO ENSURE THE MINIMUM DIMENSIONS SHOWN ARE SUITABLE FOR THE EXISTING GROUND CONDITIONS. NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
 - MINIMUM CONCRETE STRENGTH OF 3000 PSI. THE CONCRETE SHALL BE VIBRATED TO ELIMINATE AIR POCKETS.
 - THE FINISHED LEVEL OF THE CONCRETE SURROUND MUST BE APPROX. 1/8" ABOVE THE TOP OF THE CHANNEL EDGE.
 - TRENCH DRAIN SHALL BE MANUFACTURED BY ACO OR APPROVED EQUAL. REFER TO MANUFACTURER'S LATEST INSTALLATION INSTRUCTIONS FOR COMPLETE DETAILS.

3 TRENCH DRAIN DETAIL

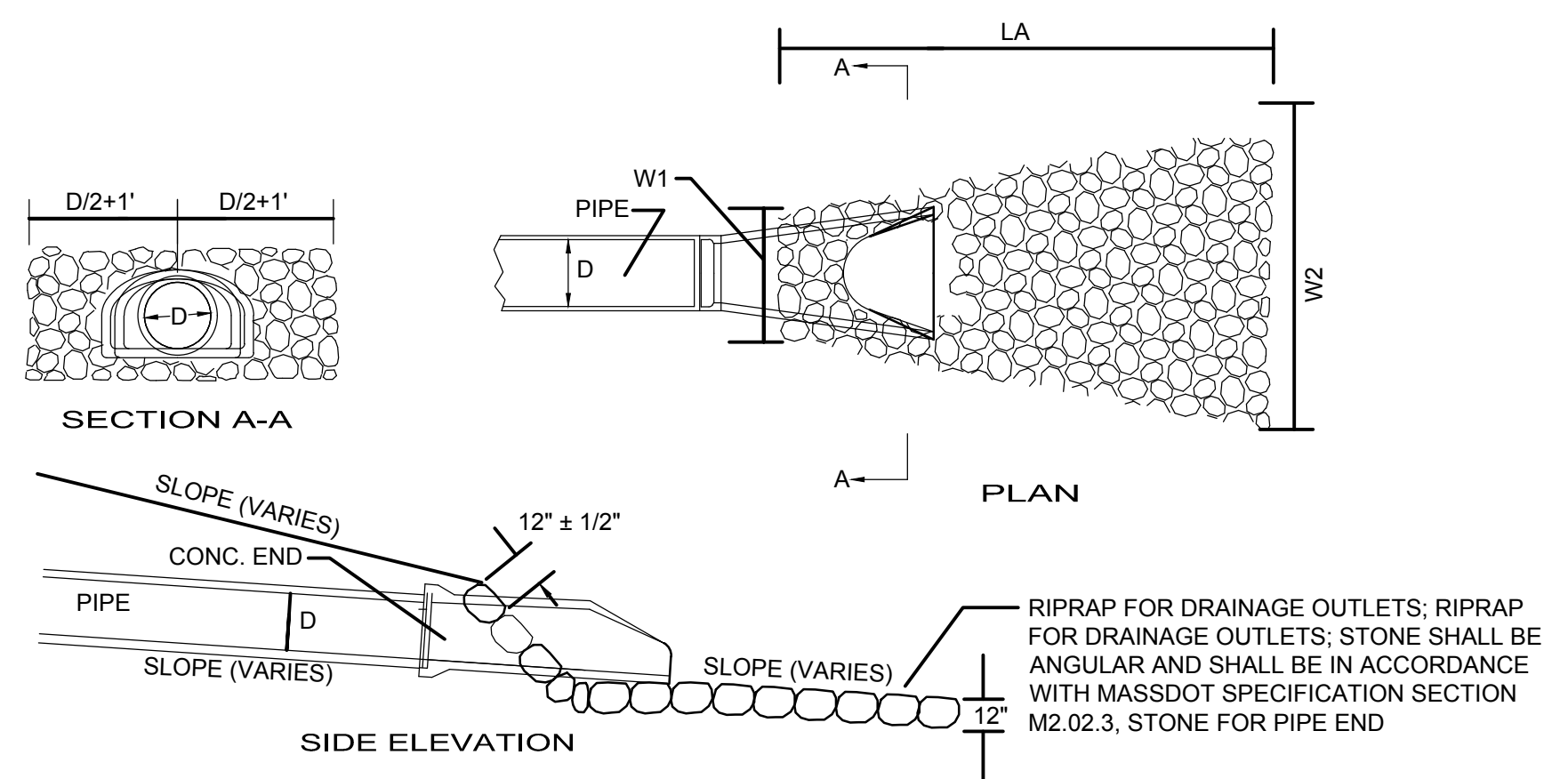
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- NOTES:**
- CROSS-SECTION OF EMERGENCY SPILLWAY CHANNEL SHALL CONTINUE DOWN EXTERIOR SLOPE OF EARTH EMBANKMENT.

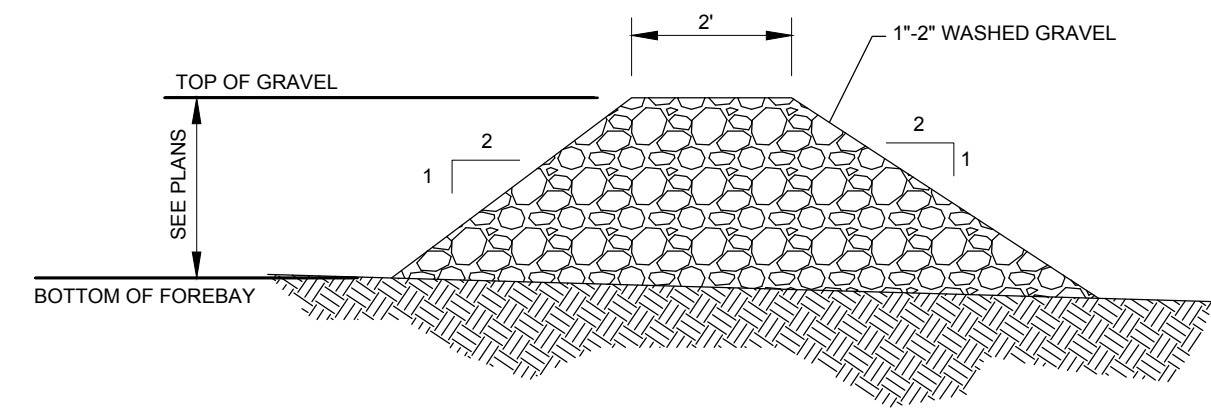
4 EMERGENCY SPILLWAY FOR INFILTRATION BASIN

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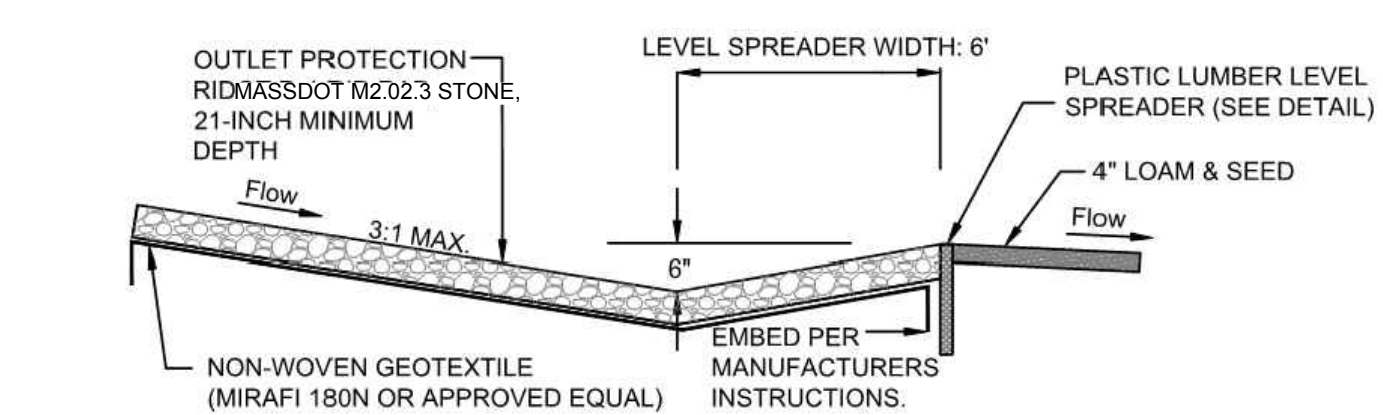
1 FLARED END PIPE DETAIL

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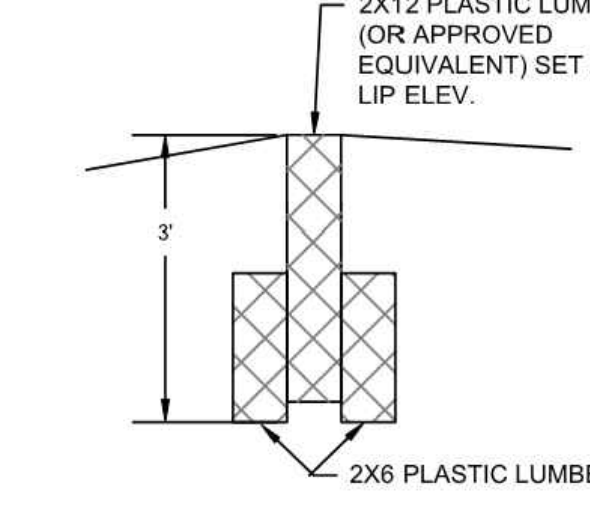
2 FOREBAY CHECK DAM DETAIL

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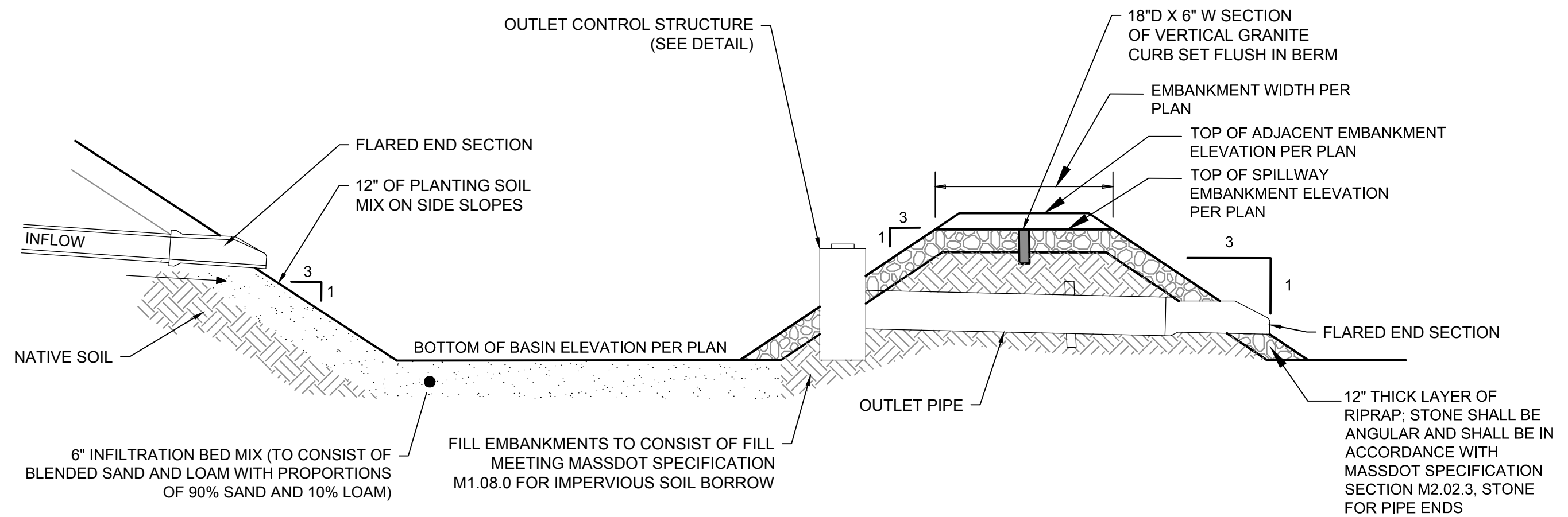
CROSS SECTION CONSTRUCTION SPECIFICATIONS

- THE GEOTEXTILE SHOULD BE A MINIMUM OF 6 FEET WIDE EXTENDING 12 INCHES OVER THE LIP. EMBED IN A VERTICAL TRENCH AND SECURE PER MANUFACTURER'S INSTRUCTIONS.
- ENSURE THAT THE LIP IS LEVEL TO UNIFORMLY SPREAD STORMWATER DISCHARGE.
- THE RUNOFF DISCHARGE WILL BE OUTLETED ONTO A STABILIZED VEGETATED SLOPE NOT TO EXCEED 10%.



6 LEVEL SPREADER DETAIL

SCALE: N.T.S.



5 INFILTRATION BASIN

SCALE: N.T.S.

- NOTES:**
- VERTICAL GRANITE CURB EMBEDDED IN SPILLWAY SHALL BE SET TO AN ACCURATE ELEVATION WITH A CONSTRUCTION TOLERANCE OF .5"± FROM REQUIRED ELEVATION.



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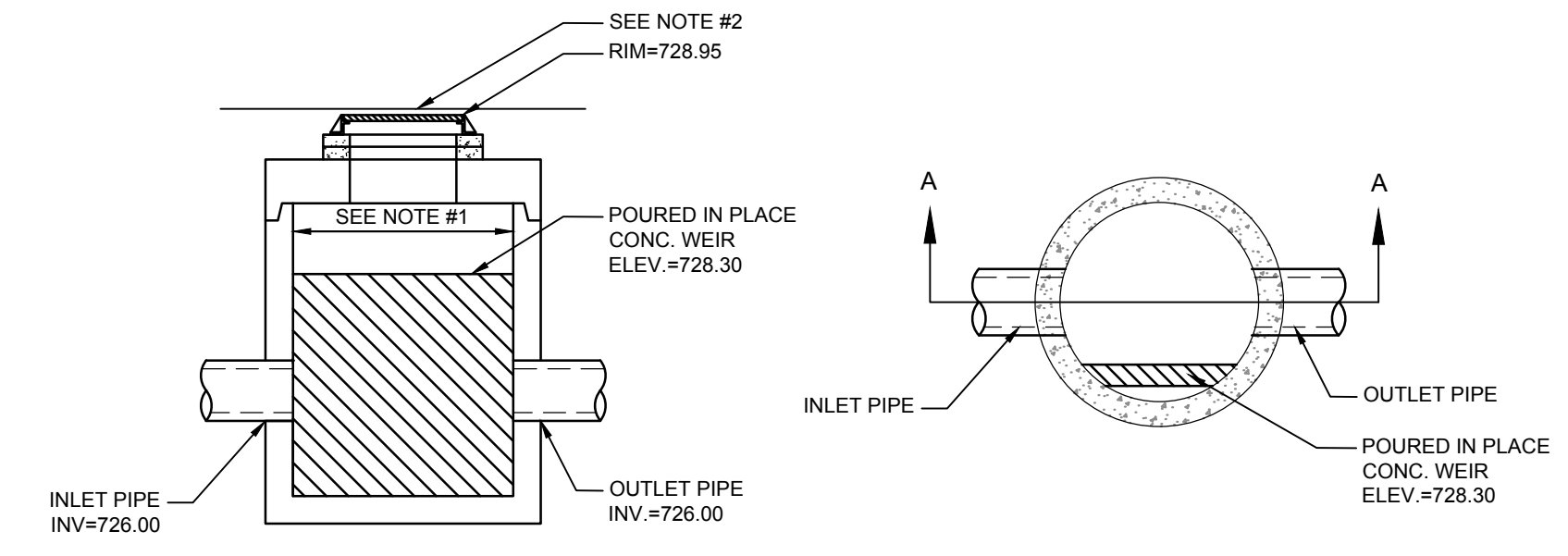
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DRAINAGE & UTILITIES DETAILS

Sheet Number:
UT702

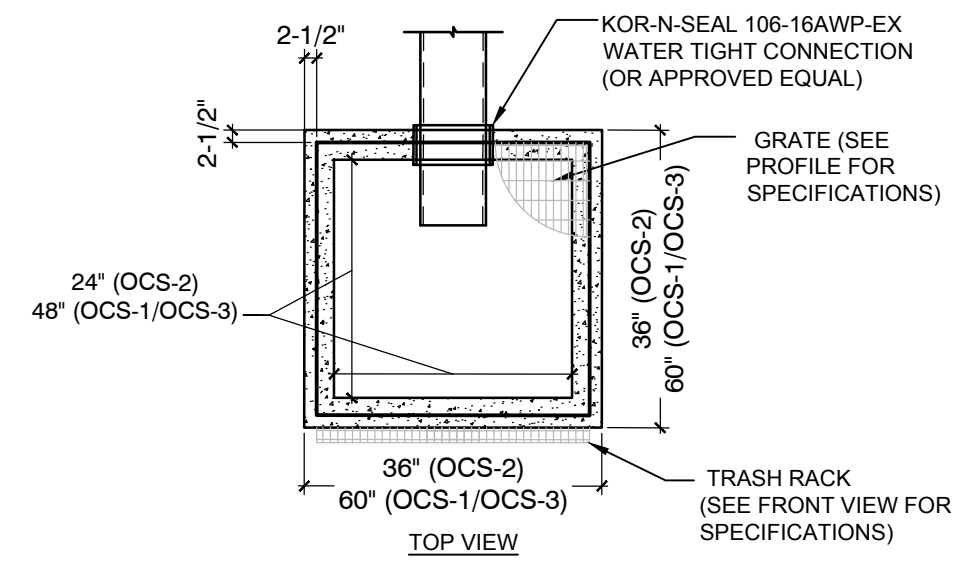
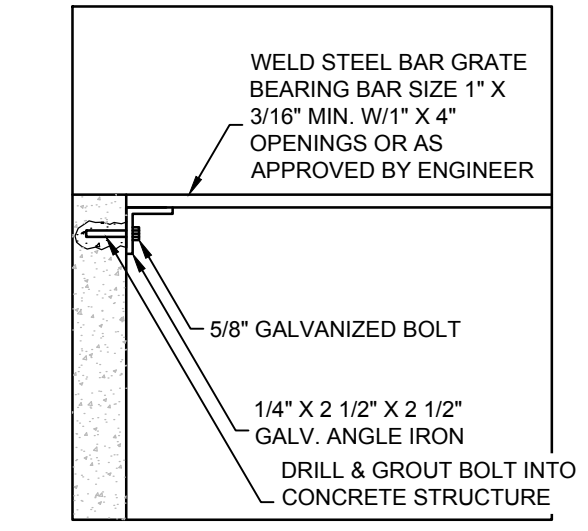
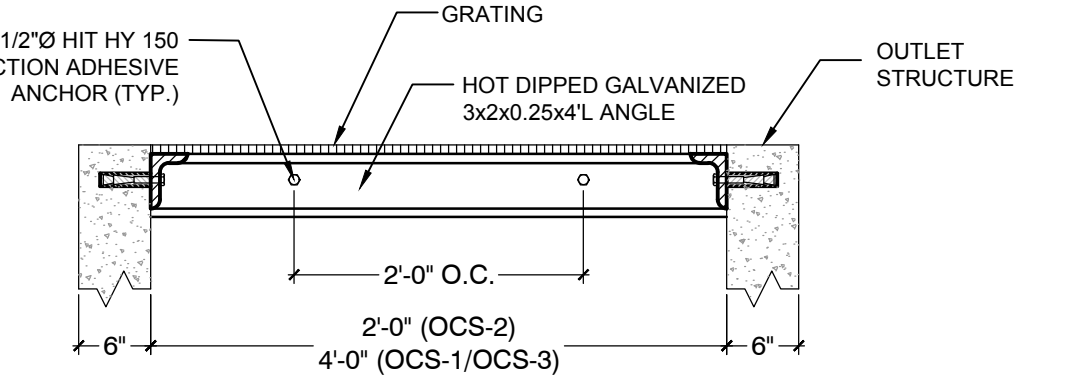


2 OUTLET CONTROL STRUCTURE (OCS) - OCS 502
SCALE: N.T.S.

- NOTE:
- (5'-0" MIN.) CONTRACTOR SHALL SIZE STRUCTURE AS NECESSARY TO ACCOMMODATE ALL PROPOSED PIPE SIZES AND PENETRATIONS USING THE GEOMETRY PROVIDED.
 - SEE "SYNTHETIC TURF BOX COVER DETAIL" ON SHEET# L705 FOR COVER BETWEEN FIELD AND RIM.

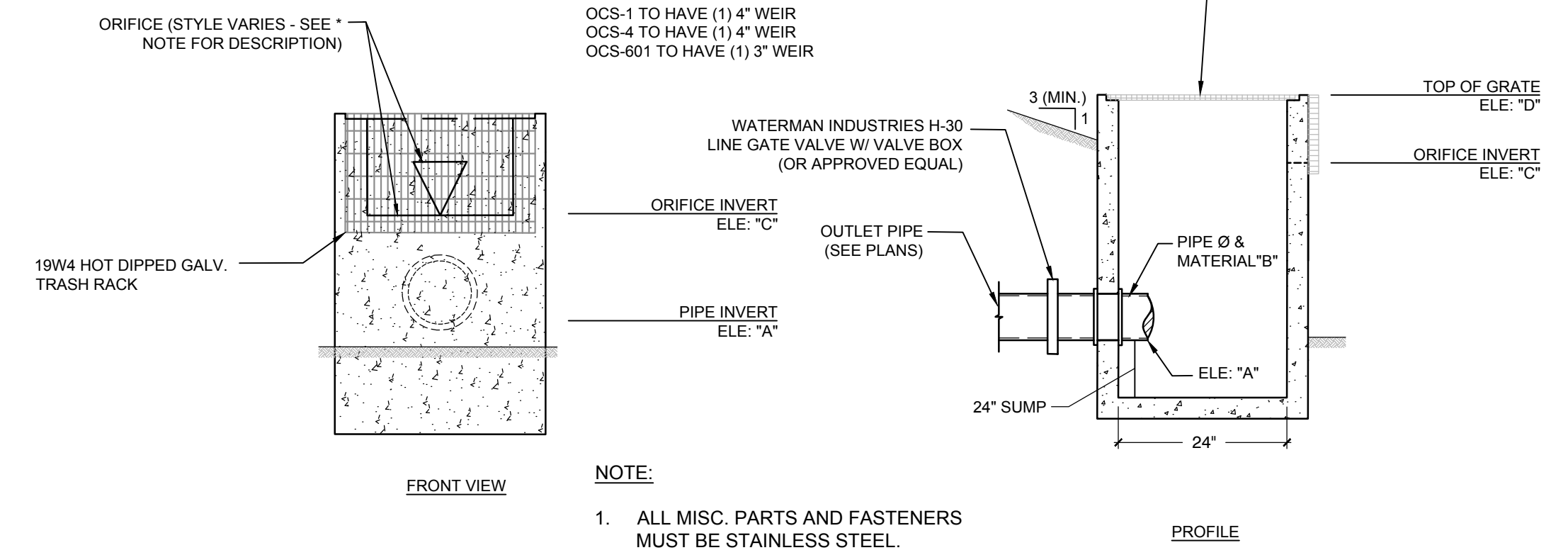
NOTES:

- OUTLET STRUCTURE TO BE 2'X2' OR 4'X4' (INTERIOR DIMENSIONS - SEE SPECIFICATIONS BELOW) WIDE WITH A 4" SUMP PRECAST CONCRETE STRUCTURE.
- SEE CATCH BASIN DETAIL FOR MATERIAL AND CONSTRUCTION SPECIFICATIONS.
- TRASH RACK BAR GRATE TO BE GALVANIZED OR PAINTED (2 COATS W/RUST INHIBITOR BLACK PAINT).
- IF MORE THAN 2 TRASH RACK GRATE PANELS ARE USED, PANELS ARE TO BE BOLTED TO ANGLES W/ GALV. BOLTS AT EACH CORNER.

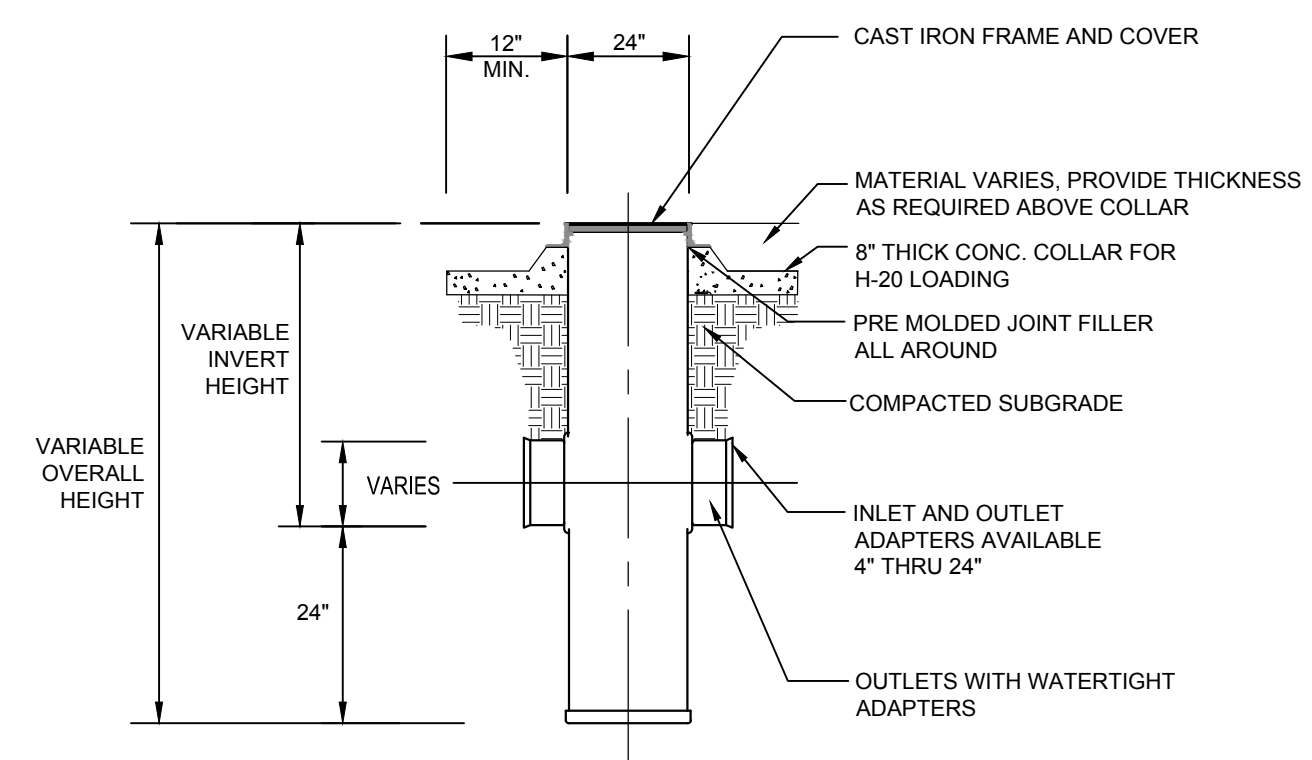


OUTLET STRUCTURE CONFIGURATION SUMMARY

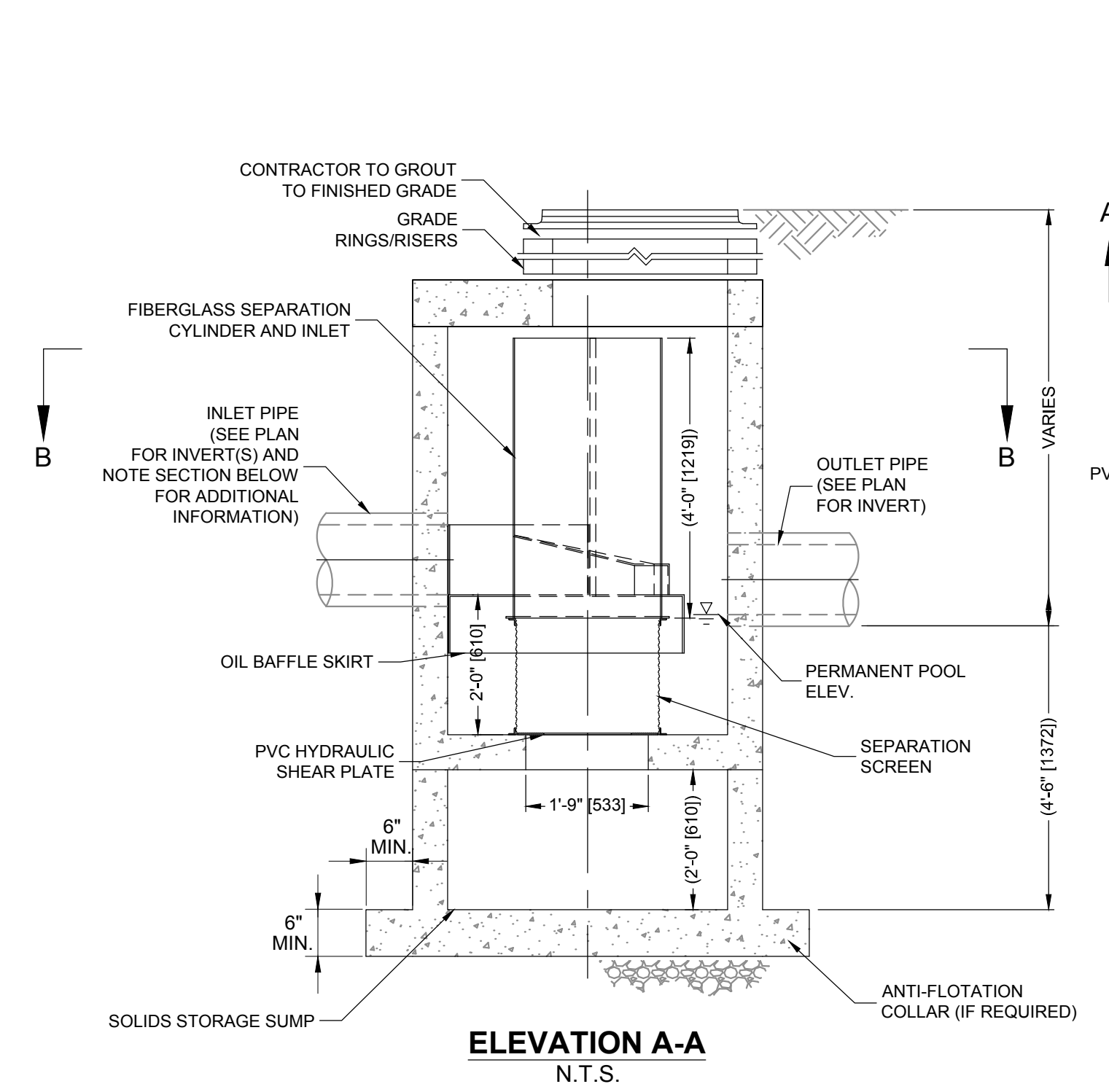
	A	B	C	D
OCS-1	712.90	12" HDPE	714.70	715.30
OCS-4	715.30	6" HDPE	715.80	717.40
OCS-114	730.00	12" HDPE	-	734.30
OCS-403	734.50	18" HDPE	-	739.00
OCS-601	724.50	12" HDPE	726.00	726.40



4 OUTLET CONTROL STRUCTURE (OCS) - TYPE 2
SCALE: N.T.S.

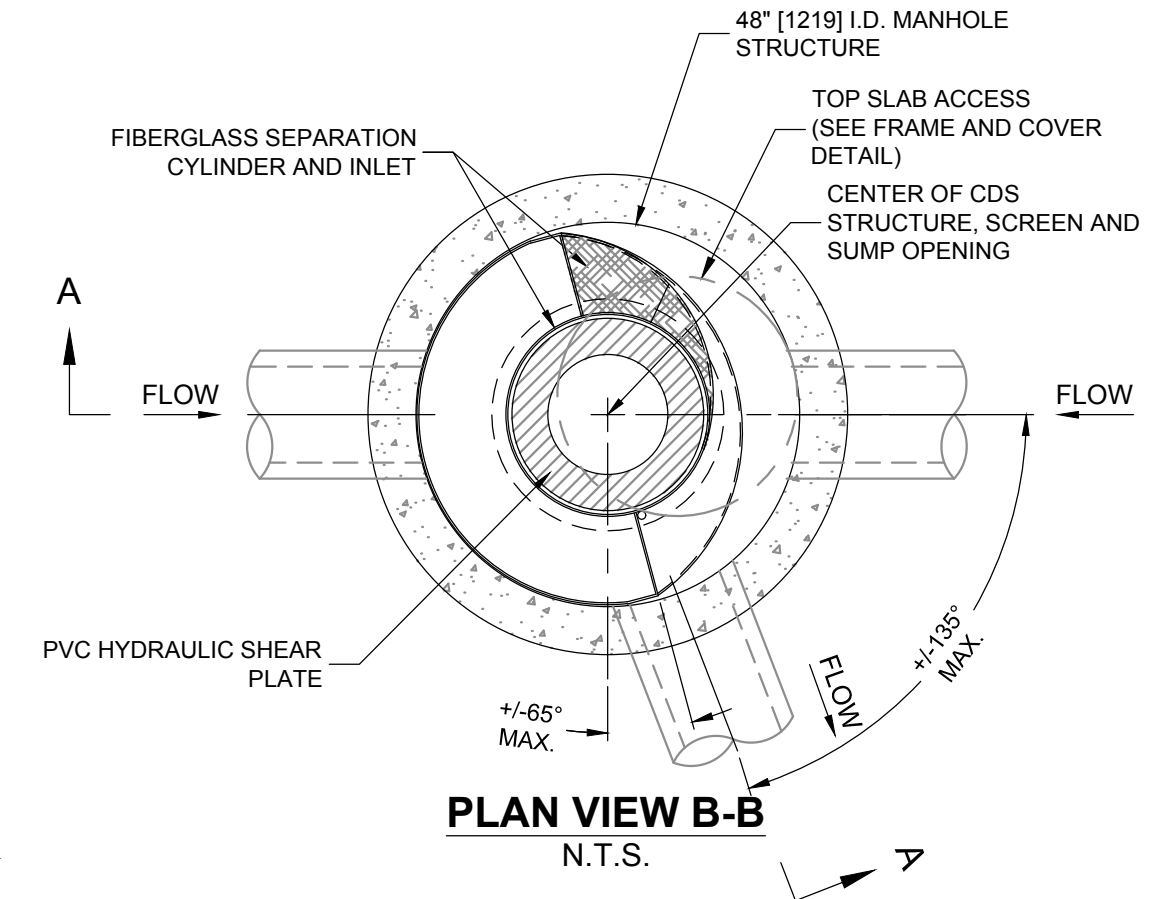


1 PVC DRAIN MANHOLE
SCALE: N.T.S.

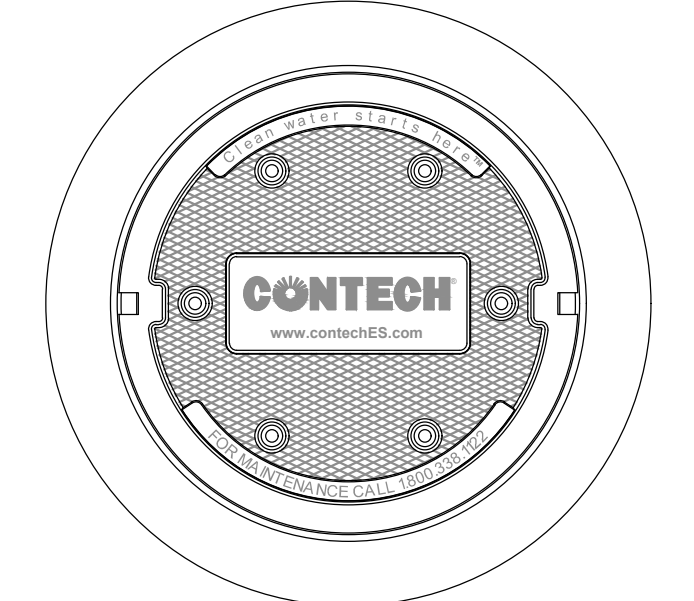


- NOTE:
- MULTIPLE INLET PIPES MAY BE ACCOMMODATED. CONTRACTOR TO VERIFY FEASIBILITY OF CONNECTION TO CDS UNIT IN ORDER TO INSTALL.

3 CONTECH CDS-2015-4-C INLINE UNIT DETAIL
SCALE: N.T.S.



PLAN VIEW B-B
N.T.S.



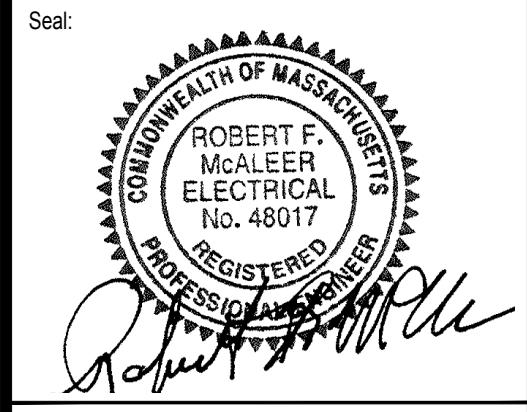
FRAME AND COVER
(DIAMETER VARIES)
N.T.S.

Consultants:

Revisions:

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**ELECTRICAL
 LEGEND,
 ABBREVIATIONS AND
 GENERAL NOTES**

Sheet Number:
E001

ELECTRICAL LEGEND

	HOMERUN TO PANELBOARD. NUMBER OF TICKS INDICATES NUMBER OF #12 AWG CONDUCTORS CONTAINED IN RACEWAY. TWO (2) #12 AWG SHALL NOT BE INDICATED BY TICKS. NUMERALS 1 AND 3 INDICATE CIRCUITS IN PANELBOARD. RACEWAYS LARGER THAN 1/2" AND CONDUCTORS LARGER THAN #12 AWG SHALL BE INDICATED ON THE DRAWINGS. PROVIDE AN INSULATED GREEN GROUND WIRE IN ALL RACEWAYS MINIMUM SIZE TO BE #12AWG.
	CONDUIT RUN UNDERGROUND
	SPORTS LIGHTING FIXTURE. "S1" DENOTES POLE DESIGNATION
	MECHANICAL TIME CLOCK
	PEDESTRIAN LIGHT FIXTURE
	SINGLE OR DUAL-HEADING STREET POLE LIGHT FIXTURE. "SP1" DENOTES FIXTURE TYPE
	HANDHOLE (COVER SHALL BE LABELED "LIGHTING, COMMUNICATIONS, POWER")
	LH - LIGHTING HANDHOLE
	CH - COMMUNICATIONS HANDHOLE
	PH - POWER HANDHOLE
	SURGE PROTECTION DEVICE
	NON-FUSIBLE SAFETY SWITCH. NUMERALS INDICATE AMPERAGE RATING
	TRANSFORMER
	SECURITY CAMERA

ABBREVIATIONS

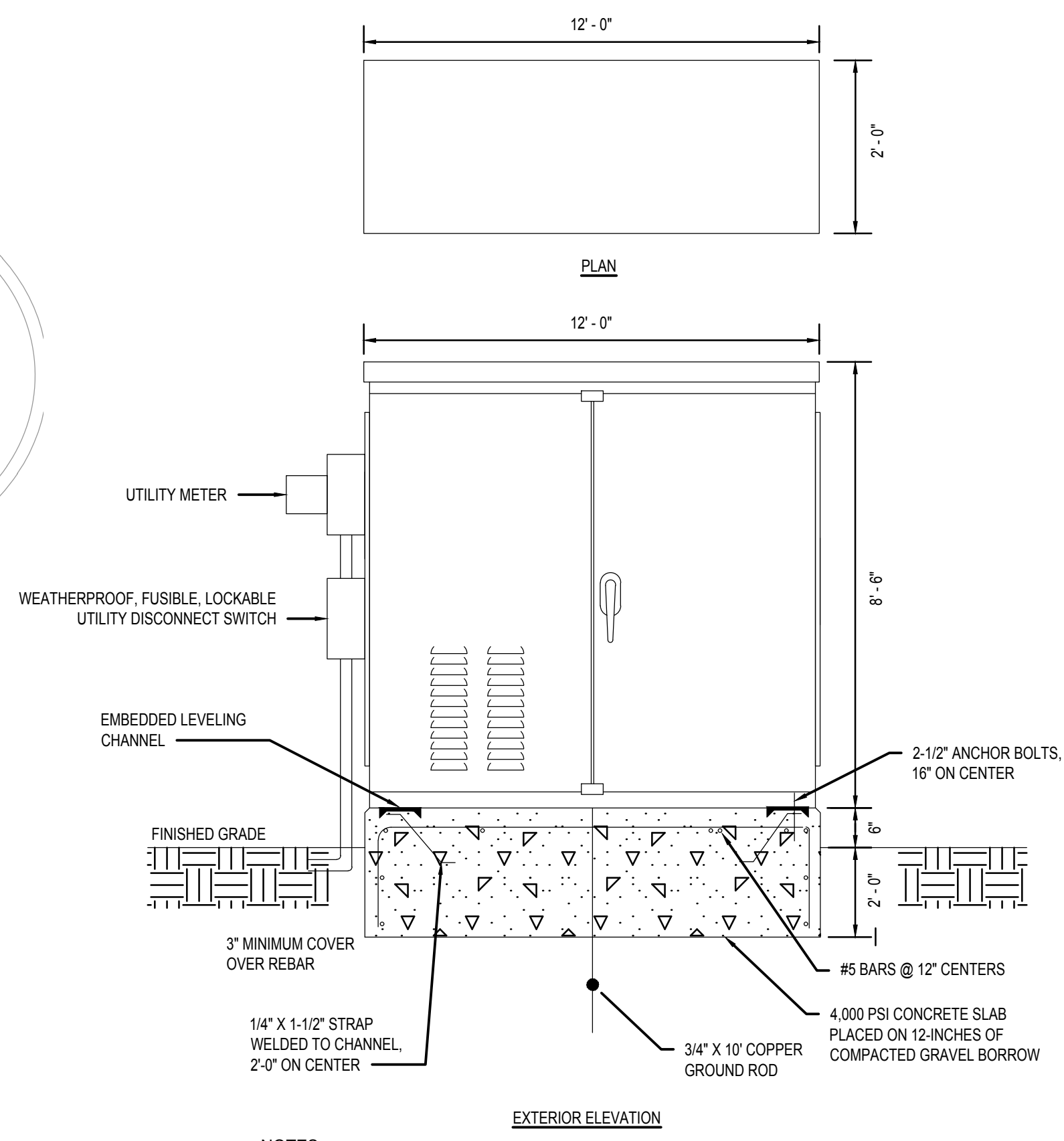
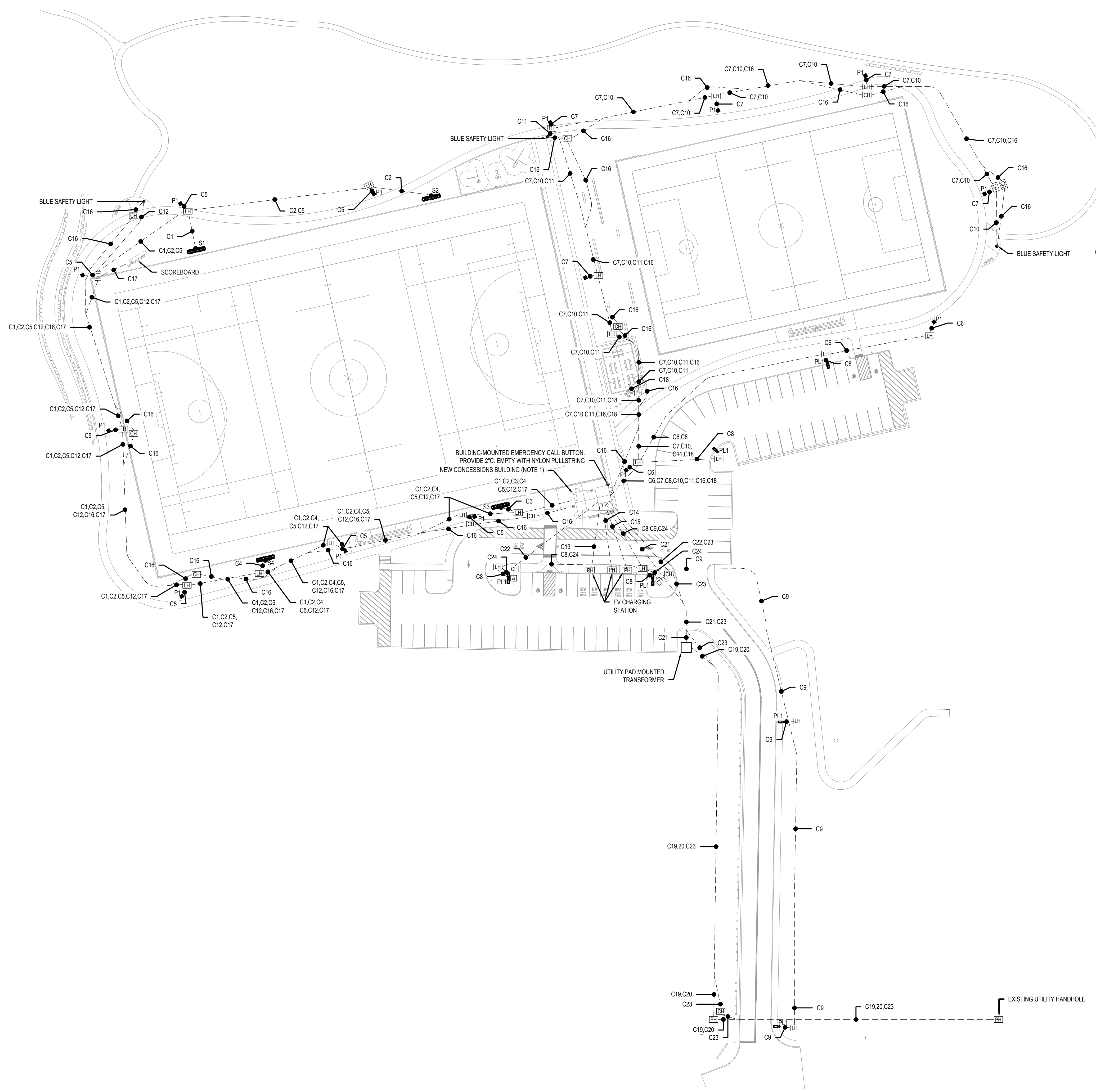
AFF	ABOVE FINISHED FLOOR
AC	ALTERNATING CURRENT
A	AMPERE
ATC	AUTOMATIC TEMPERATURE CONTROLS
ATS	AUTOMATIC TRANSFER SWITCH
BKR	BREAKER
C	CONDUIT
CKT	CIRCUIT
CB	CIRCUIT BREAKER
EC	ELECTRICAL CONTRACTOR
EMT	ELECTRIC METALLIC TUBING
EWV	ELECTRIC WATER COOLER
EAH	ELECTRIC WATER HEATER
EF	FLOOR
FL	FULL LOAD AMPERE
GC	GENERAL CONTRACTOR
GFI	GROUND FAULT INTERRUPTER
GND	GROUND
HOA	HAND OFF AUTOMATIC
HP	HORSEPOWER
IG	ISOLATED GROUND
JB	JUNCTION BOX
KVA	KILOVOLT AMPERES
KW	KILOWATT
MCB	MAIN CIRCUIT BREAKER
MLO	MAIN LUGS ONLY
MC	MECHANICAL CONTRACTOR
MTD	MOUNTED
MTG	MOUNTING
NMC	NON-METALLIC CONDUIT
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NA	NOT APPLICABLE
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
PNL	PANELBOARD
PH	PHASE
PVC	POLYVINYL CHLORIDE CONDUIT
RSC	RIGID GALVANIZED STEEL CONDUIT
SF	SUPPLY FAN
SS	SAFETY SWITCH
TEL	TELEPHONE
TRF	TRANSFORMER
V	VOLTS
W	WATTS OR WIRE
WP	WEATHERPROOF
4WSN	4-WIRE SOLID NEUTRAL

RECEPTACLE ABBREVIATIONS

GFI	GROUND FAULT CIRCUIT INTERRUPTER, PERSONAL PROTECTION
WP	WEATHERPROOF RECEPTACLE WITH COVERPLATE LISTED FOR WET LOCATION WITH AN ATTACHMENT PLUG INSERTED.

GENERAL NOTES

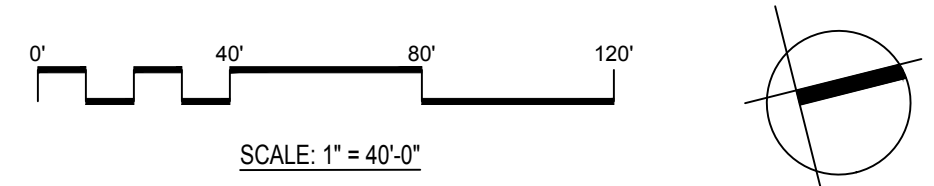
- DRAWINGS ARE DIAGRAMMATIC ONLY. THE EXACT LOCATION, MOUNTING HEIGHTS, SIZE OF EQUIPMENT AND ROUTING OF RACEWAYS SHALL BE COORDINATED AND DETERMINED IN THE FIELD.
- ALL STRAIGHT FEEDERS, BRANCH CIRCUITS AND AUXILIARY SYSTEM CONDUIT RUNS SHALL BE PROVIDED WITH SUFFICIENT HANDHOLES/PULL BOXES TO LIMIT THE MAXIMUM LENGTH OF ANY SINGLE CABLE PULL TO 200 FEET OR NO MORE THAN (3) 90 DEGREE BENDS. EXACT SIZES OF HANDHOLES/PULL BOXES AND LOCATIONS TO BE DETERMINED IN THE FIELD BY THE ELECTRICAL CONTRACTOR.
- THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR AS APPLICABLE AS TO THE EXACT LOCATION OF THEIR RESPECTIVE EQUIPMENT; THE POWER WIRING, CONTROL WIRING AND ALL ELECTRICAL CONNECTIONS AND CONDUIT TURN-UPS SHALL BE COORDINATED WITH THE RESPECTIVE CONTRACTORS BEFORE THE START OF CONSTRUCTION IN THE FIELD.
- WORK SHALL CONFORM TO THE MASSACHUSETTS ELECTRICAL CODE, MASSACHUSETTS BUILDING CODE, NFPA AND REQUIREMENTS OF LOCAL AUTHORITIES HAVING JURISDICTION.
- THE WORD "CONTRACTOR" AS USED IN THE "ELECTRICAL WORK" SHALL MEAN THE ELECTRICAL SUBCONTRACTOR.
- CONTRACTOR SHALL PAY FOR ALL PERMITS, INSURANCE AND TESTS, AND SHALL PROVIDE LABOR AND MATERIAL TO COMPLETE THE ELECTRICAL WORK SHOWN.
- CONTRACTOR SHALL PAY ELECTRIC UTILITY COMPANY BACK CHARGES
- CONTRACTOR SHALL PROVIDE ALL REQUIRED COORDINATION WITH THE HOLDEN MUNICIPAL LIGHTING DEPARTMENT AND OTHER UTILITIES AS REQUIRED.
- ELECTRIC UTILITY WORK ORDER NUMBER FOR THIS PROJECT IS #XXXXXXX.
- EXCEPT AS OTHERWISE NOTED, THE ELECTRICAL WORK SHALL INCLUDE PANELBOARDS, CIRCUIT BREAKERS, FEEDERS, WIRING, RACEWAYS, LIGHTING FIXTURES, OUTLETS AND TRANSFORMERS.
- THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY LIGHTING AND POWER AND THE GENERAL CONTRACTOR SHALL PAY ALL ENERGY CHARGES FOR TEMPORARY POWER AND LIGHTING.
- DURING CONSTRUCTION, THE ELECTRICAL CONTRACTOR SHALL KEEP HIS PORTION OF THE WORK NEAT, CLEAN AND ORDERLY.
- ALL SYSTEMS SHALL BE TESTED FOR SHORT CIRCUIT AND GROUNDS PRIOR TO ENERGIZING AND ANY DEFECTS SHALL BE CORRECTED.
- ALL CUTTING AND PATCHING REQUIRED FOR ELECTRICAL WORK SHALL BE INCLUDED AS PART OF THIS SECTION.
- COMPLETE SHOP DRAWINGS SHALL BE SUBMITTED FOR ELECTRICAL EQUIPMENT. WHERE SPECIFIED ELECTRICAL EQUIPMENT IS SUBSTITUTED, THE ELECTRICAL CONTRACTOR SHALL SUBMIT COMPLETE SPECIFICATIONS ON THE SUBSTITUTE AS WELL AS THE ITEM ORIGINALLY SPECIFIED.
- MATERIALS SHALL BE SPECIFICATION GRADE AND UL LISTED.
- WHERE MATERIAL IS CALLED OUT IN THE LEGEND BY MANUFACTURER, TYPE OR CATALOG NUMBER, SUCH DESIGNATIONS ARE TO ESTABLISH STANDARDS OR DESIRED QUALITY. ACCEPTANCE OR REJECTIONS OF PROPOSED SUBSTITUTIONS SHALL BE SUBJECT TO THE APPROVAL OF THE OWNER.
- WORK SHALL BE COORDINATED WITH THAT OF OTHER TRADES TO ELIMINATE INTERFERENCES.
- ELECTRICAL CONTRACTOR SHALL OBTAIN SHOP DRAWINGS/SPECIFICATIONS OF ALL EQUIPMENT FROM THE GENERAL CONTRACTOR PRIOR TO PURCHASING AND INSTALLING ELECTRICAL EQUIPMENT FOR SAME. NOTIFY ENGINEER OF ANY DISCREPANCIES BETWEEN ACTUAL EQUIPMENT INSTALLED AND CONTRACT DOCUMENTS.
- ELECTRICAL WORK SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL COMPLETION UNLESS A LONGER WARRANTY IS SPECIFIED ELSEWHERE.
- WORK SHALL BE GROUNDED IN ACCORDANCE WITH CODE REQUIREMENTS. COMPLETE EQUIPMENT (INSULATED GREEN WIRE) GROUNDING SYSTEM SHALL BE INSTALLED.
- WIRE SHALL BE TYPE "XLP" INSULATED FOR 600 VOLTS, MINIMUM SIZE #12 AWG COPPER UNLESS SPECIFICALLY NOTED OTHERWISE.
- WIRING METHODS:
 - EXTERIOR UNDERGROUND FEEDERS SHALL BE PVC SCHEDULE 80 FOR DIRECT BURIED AND PVC SCHEDULE 40 FOR CONCRETE ENCASED.
 - EXTERIOR ABOVE GRADE FEEDERS SHALL BE RGS CONDUIT.
 - INTERIOR CABINET FEEDERS SHALL BE RGS CONDUIT.
- CONNECTORS FOR RIGID CONDUIT SHALL BE MADE WITH THREADED COUPLINGS.
- BOXES SHALL BE GALVANIZED STEEL AND SHALL BE SIZED TO ACCOMMODATE THE EQUIPMENT OR APPARATUS TO BE INSTALLED. WHERE BOXES OF A STANDARD MAKE ARE NOT AVAILABLE, SPECIAL BOXES SHALL BE MANUFACTURED. FIXTURES SUPPORTED ON THE CEILING OR ON THE WALL SHALL HAVE SUITABLE FIXTURE SUPPORT FOR THE SPECIFIC FIXTURE.
- PANELBOARDS SHALL BE DEAD FRONT, THERMAL MAGNETIC BOLT-ON CIRCUIT BREAKER TYPE, DESIGNED FOR SURFACE OR FLUSH MOUNTING AS INDICATED ON PLAN, AND HAVING CONNECTIONS TO 120/208 OR 277/480 VOLT, 3 PHASE, 4 WIRE SERVICE. ALL BUS BARS SHALL BE COPPER. CABINETS SHALL BE MADE OF CODE GAUGE GALVANIZED SHEET STEEL, WITH A MINIMUM OF 4 INCH GUTTERS, DOOR IN DOOR CONSTRUCTION, LOCKED DOOR, AND FLUSH HINGES. TYPEWRITTEN INDEX SHALL BE MOUNTED ON DOOR INSIDE TRANSPARENT COVER INDICATING LOAD SERVED. PANELS SHALL INCLUDE SEPARATE EQUIPMENT GROUND BUS.
- PANELBOARDS, DISCONNECT SWITCHES, AND CONTROLLERS SHALL HAVE NAMEPLATES OF BLACK LAMINATED PLASTIC WITH ENGRAVED WHITE LETTERS, SECURED WITH SELF-TAPPING SCREWS.
- CONTRACTOR SHALL PHASE BALANCE PANELBOARDS IN THE FIELD. LOAD ON EACH PHASE SHALL BE BALANCED WITHIN 10% OF EACH OTHER.
- WALL PLATES SHALL BE PROVIDED FOR EACH SWITCH AND RECEPTACLE OUTLET. PROVIDE CAST IRON OR ALLOY OF SUITABLE TYPE TO MATCH OUTLET BOXES SPECIFIED.
- TOGGLE SWITCHES SHALL BE OF THE SINGLE POLE A.C. QUIET TOGGLE TYPE FOR MOUNTING IN A SINGLE-GANG SPACING. TOGGLE SWITCHES SHALL BE FULLY RATED 20 AMPERES AT 120/277 VOLT.
- DUPLEX RECEPTACLES SHALL BE 2 POLE, 3 WIRE, GROUNDING TYPE 20 AMPERE, 125 VOLT WITH METAL PLASTER EARS. RECEPTACLES SHALL BE NEMA STANDARD CONFIGURATION 5-20R.
- FUSED OR UNFUSED SAFETY SWITCHES SHALL BE TOTALLY ENCLOSED, HEAVY DUTY TYPE. SWITCHES SHALL HAVE VOLTAGE, HORSEPOWER AND AMPERE RATING SUITABLE FOR THE APPLICATION. PROVIDE NUMBER OF POLES AS REQUIRED. SWITCHES LOCATED EXTERIOR TO THE BUILDING OR IN DAMP/WET LOCATIONS SHALL BE IN A NEMA 3R ENCLOSURE.
- FUSES SHALL BE DUAL ELEMENT, TIME DELAY TYPE, AS MANUFACTURED BY BUSSMAN, RELIANCE OR APPROVED EQUAL.
- FEEDER TAPS WILL NOT BE ALLOWED IN PANELBOARD GUTTERS.
- CONTRACTOR SHALL CHECK EXISTING CONDITIONS TO DETERMINE EXACT EXTENT OF WORK TO BE PERFORMED PRIOR TO BIDDING. DIMENSIONS RELEVANT TO EXISTING WORK SHALL BE VERIFIED IN THE FIELD.
- ELECTRICAL SHUTDOWN SHALL BE AT A TIME AND DATE APPROVED BY THE OWNER.
- PROVIDE AS-BUILT "CADD" DRAWINGS AT THE COMPLETION OF THE PROJECT.
- ELECTRICAL CONTRACTOR SHALL LABEL ALL ELECTRICAL DEVICES INCLUDING BUT NOT LIMITED TO RECEPTACLES, TEL/DATA OUTLETS, DISCONNECT SWITCHES, PANELBOARDS, THERMAL MOTOR SWITCHES, CONTROL PANELS, JUNCTION BOXES, ETC.
 - RECEPTACLES - PANEL NAME AND CIRCUIT DESIGNATION
 - MUSCO PANEL - PANEL NAME, VOLTAGE, AMPERAGE, PHASE AS WELL AS PANEL AND CIRCUIT IT IS FED FROM.
 - CONTROL PANEL - PANEL NAME AND CIRCUIT DESIGNATION
 - JUNCTION BOXES - PANEL NAME AND CIRCUIT DESIGNATION
- ADDRESS QUESTIONS TO THE ENGINEER IN WRITING BEFORE AWARD OF CONTRACT, OTHERWISE ENGINEERS INTERPRETATION OF MEANING AND INTENT OF DRAWINGS SHALL BE FINAL.



- NOTES:**
- CONTRACTOR SHALL COORDINATE WITH THE EXACT CABINET SIZE WITH ALL MANUFACTURER EQUIPMENT SIZES PRIOR TO SUBMITTING THE CABINET FOR APPROVAL. PROVIDE A SCALED DRAWING SHOWING ALL EQUIPMENT.

2 ELECTRICAL CABINET DETAIL
SCALE: 1" = 40'-0"

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



Consultants:

No.	Date	Description

Revisions:

No.	Date	Description

COA:

Seal:

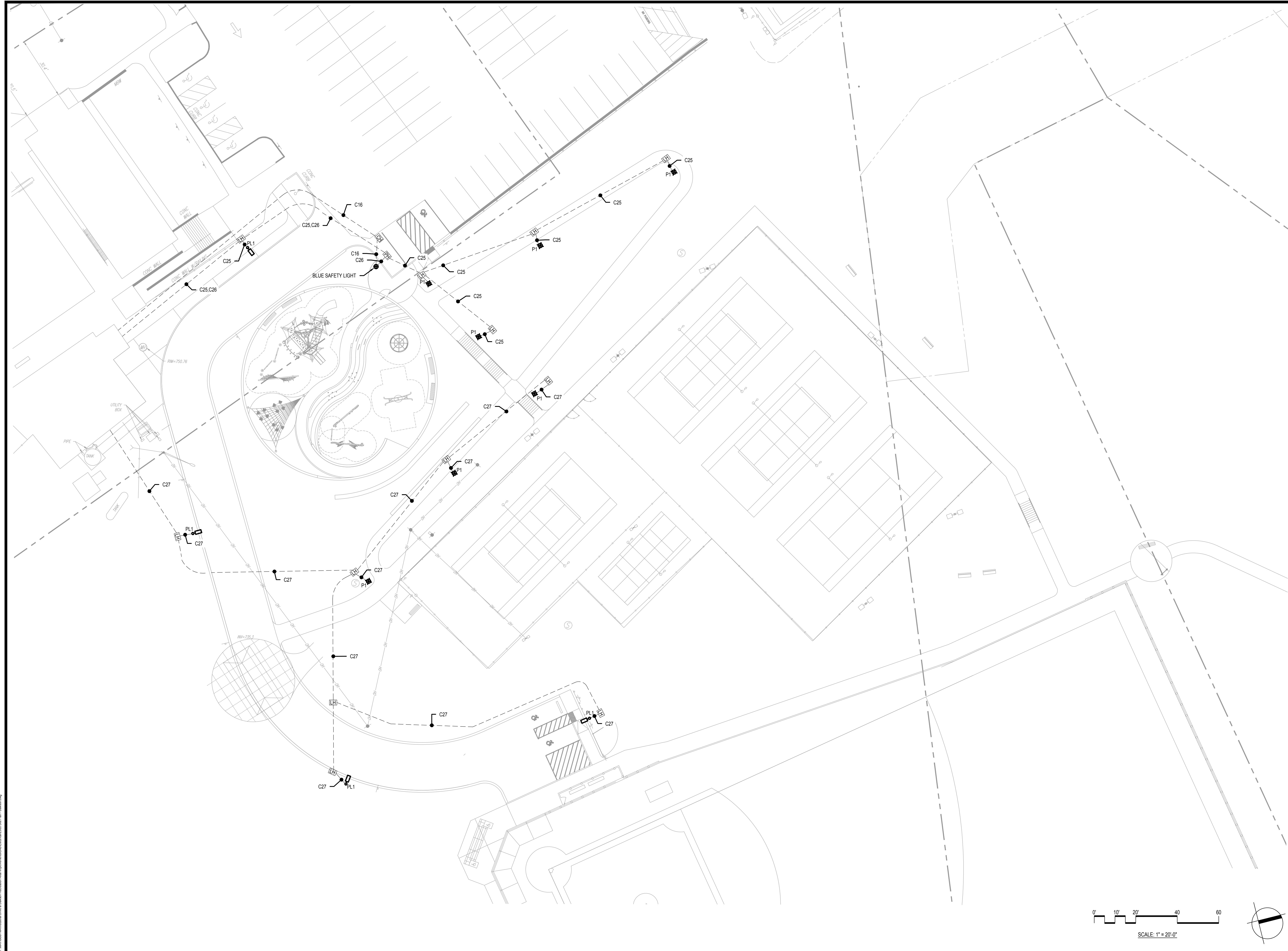
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**ELECTRICAL SITE
PLAN - INDUSTRIAL
DRIVE**

Sheet Number:
E002

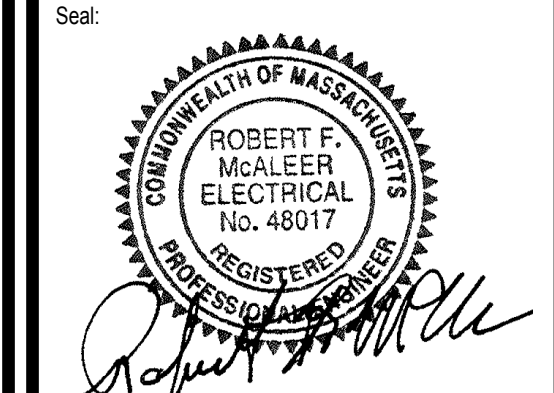


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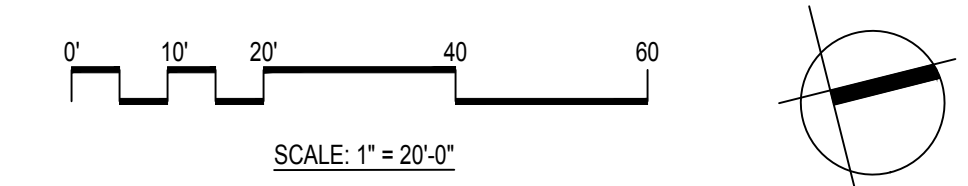
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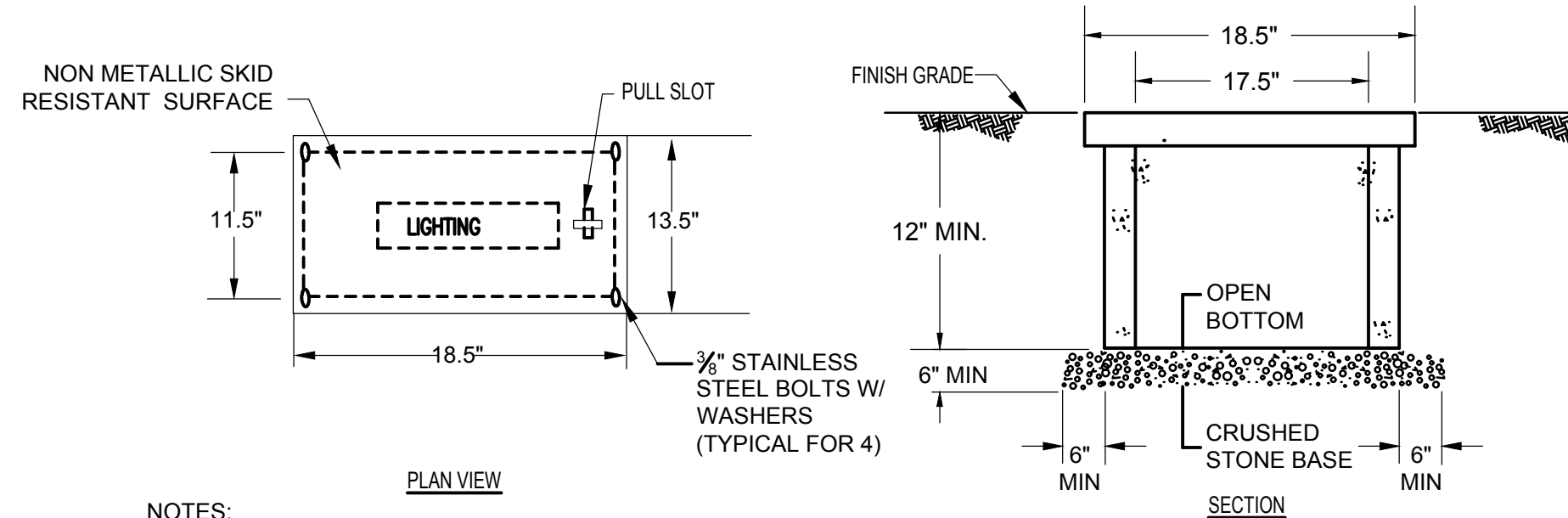
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 Reviewed By: RFM
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Drawing Title:
**ELECTRICAL SITE
 PLAN - DAWSON
 RECREATION**

Sheet Number:
E003



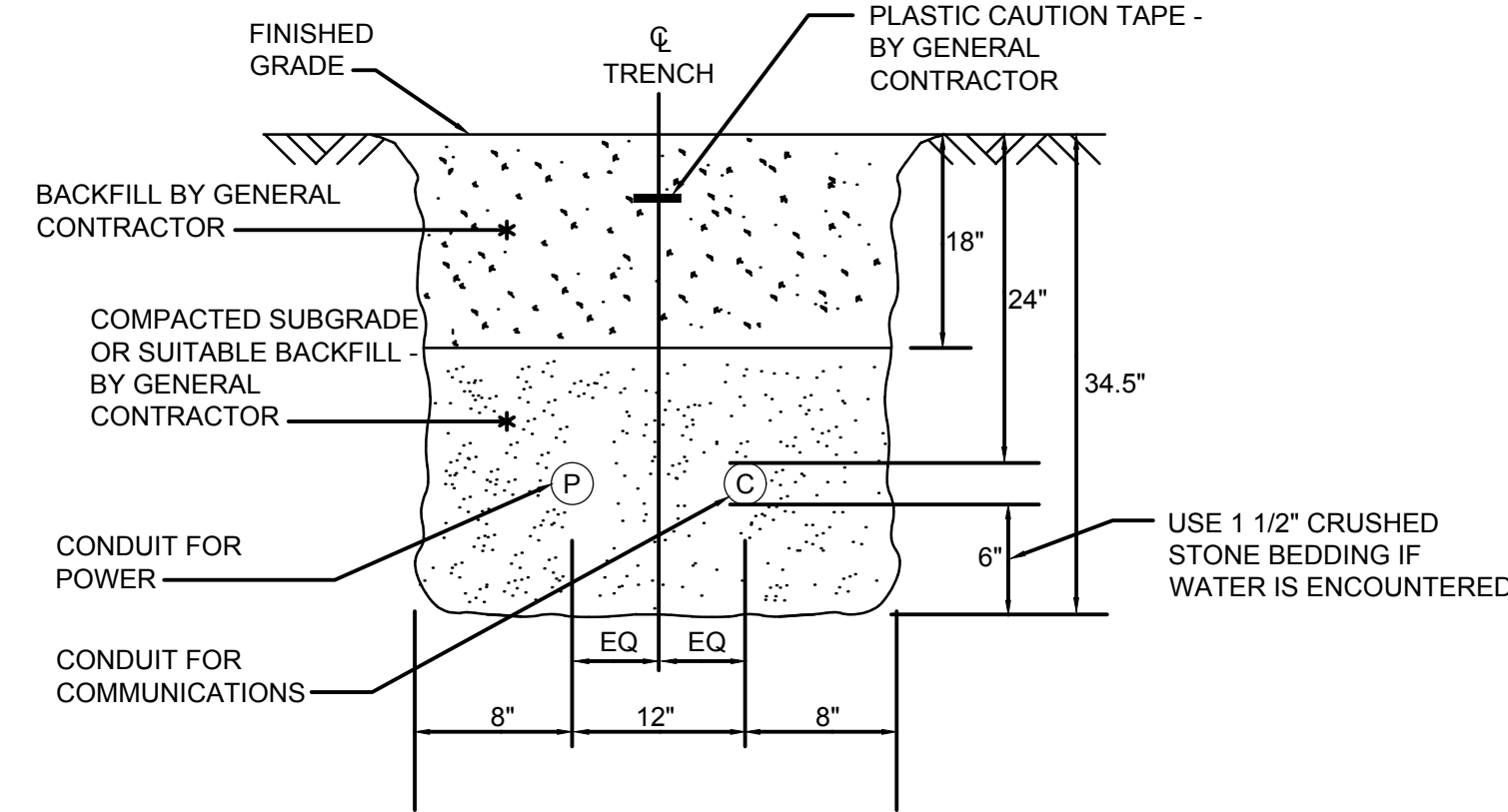


NOTES:

1. THIS HANDHOLE IS INTENDED FOR NON-DELIBERATE VEHICULAR TRAFFIC ONLY.
2. HANDHOLE SHALL BE PREFABRICATED POLYMER CONCRETE AGGREGATE EQUAL TO QUAZITE OR EQUAL PRECAST CONCRETE CONSTRUCTION.
3. HANDHOLE DIMENSIONS ARE FOR REFERENCE ONLY FOR THE MINIMUM SIZE ACCEPTABLE. HANDHOLES SHALL BE SIZED AS REQUIRED TO ACCOMMODATE CONDUITS INDICATED.

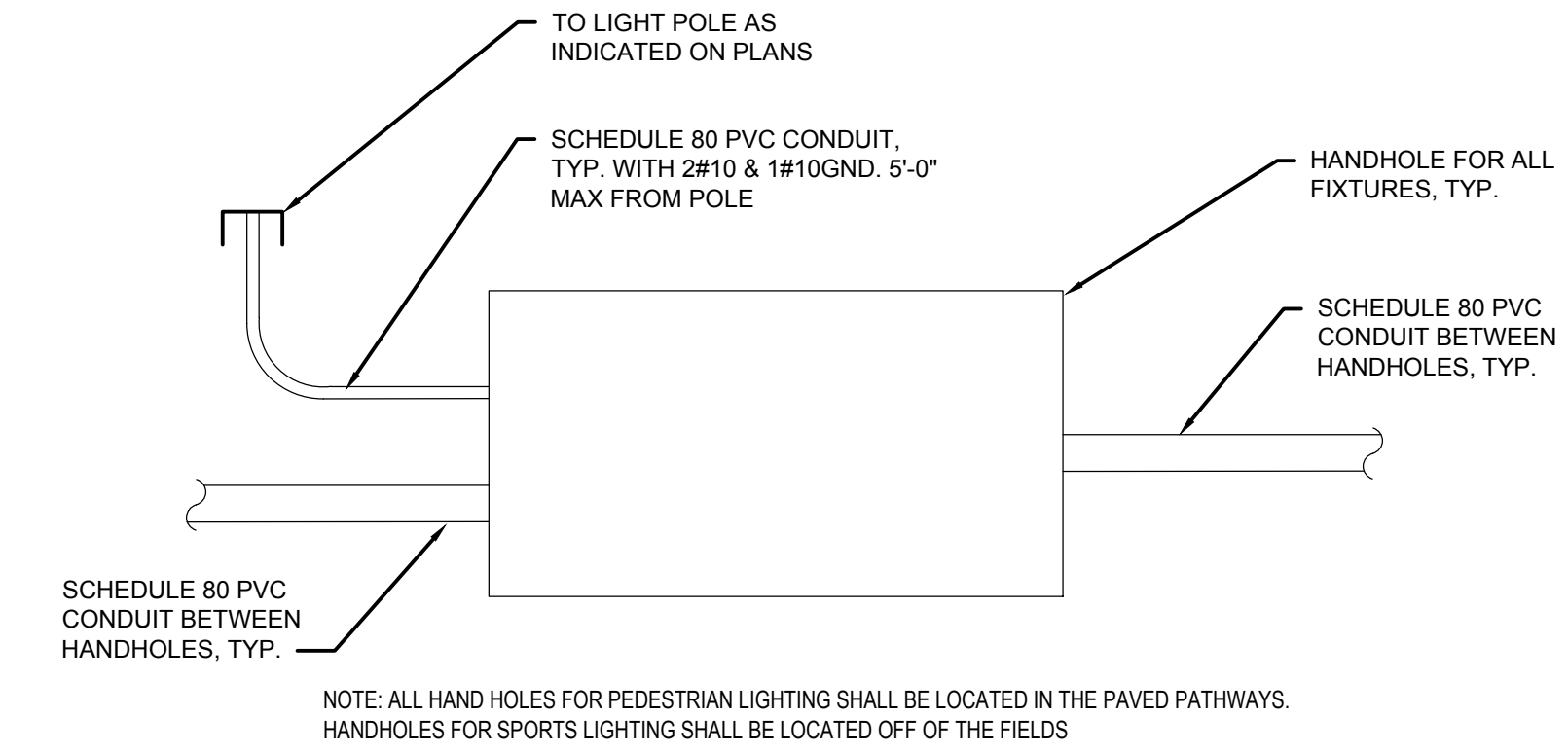
1 PREFABRICATED HANDHOLE DETAIL (TYPICAL)

NOT TO SCALE



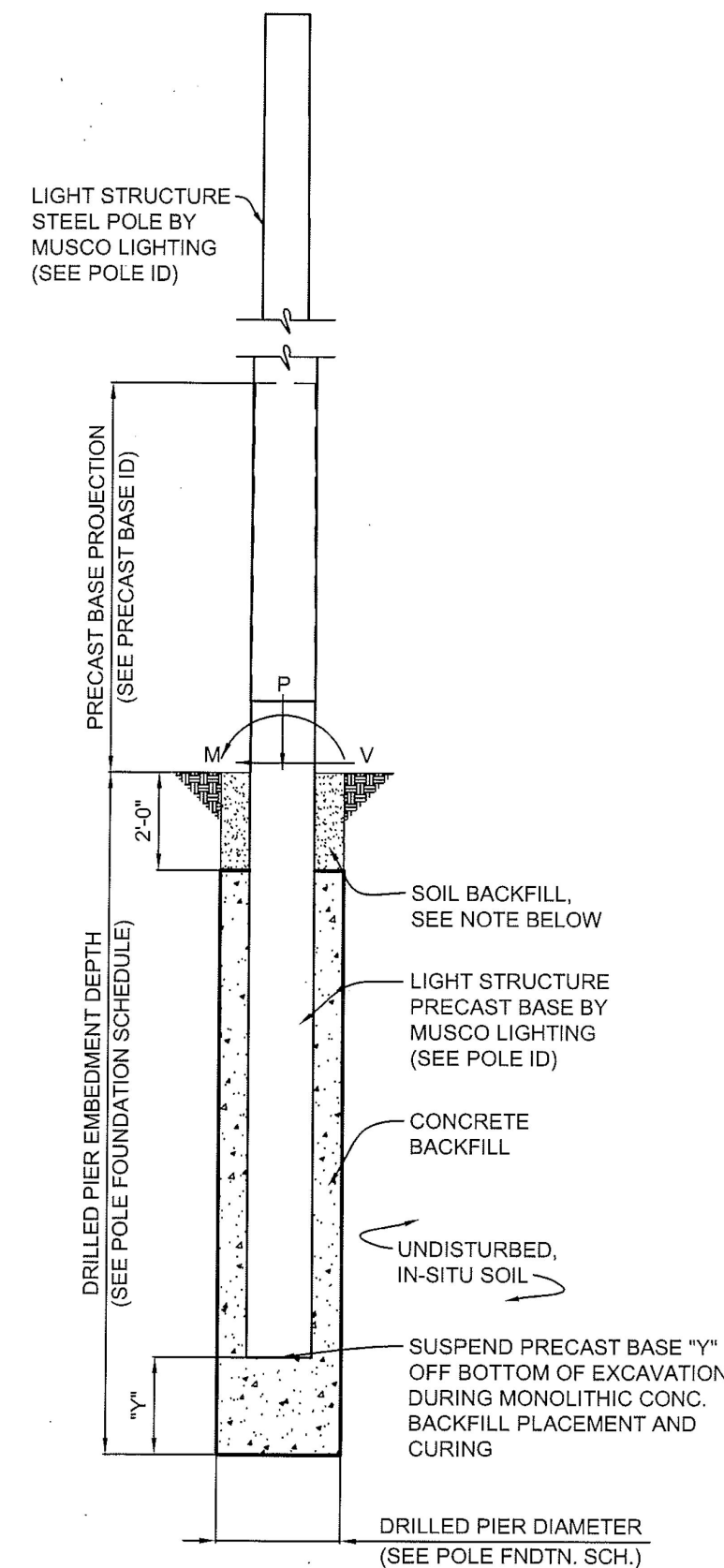
2 DIRECT BURIED CONDUIT DETAIL (TYPICAL)

NOT TO SCALE



3 PEDESTRIAN SITE LIGHTING DISTRIBUTION DETAIL (TYPICAL)

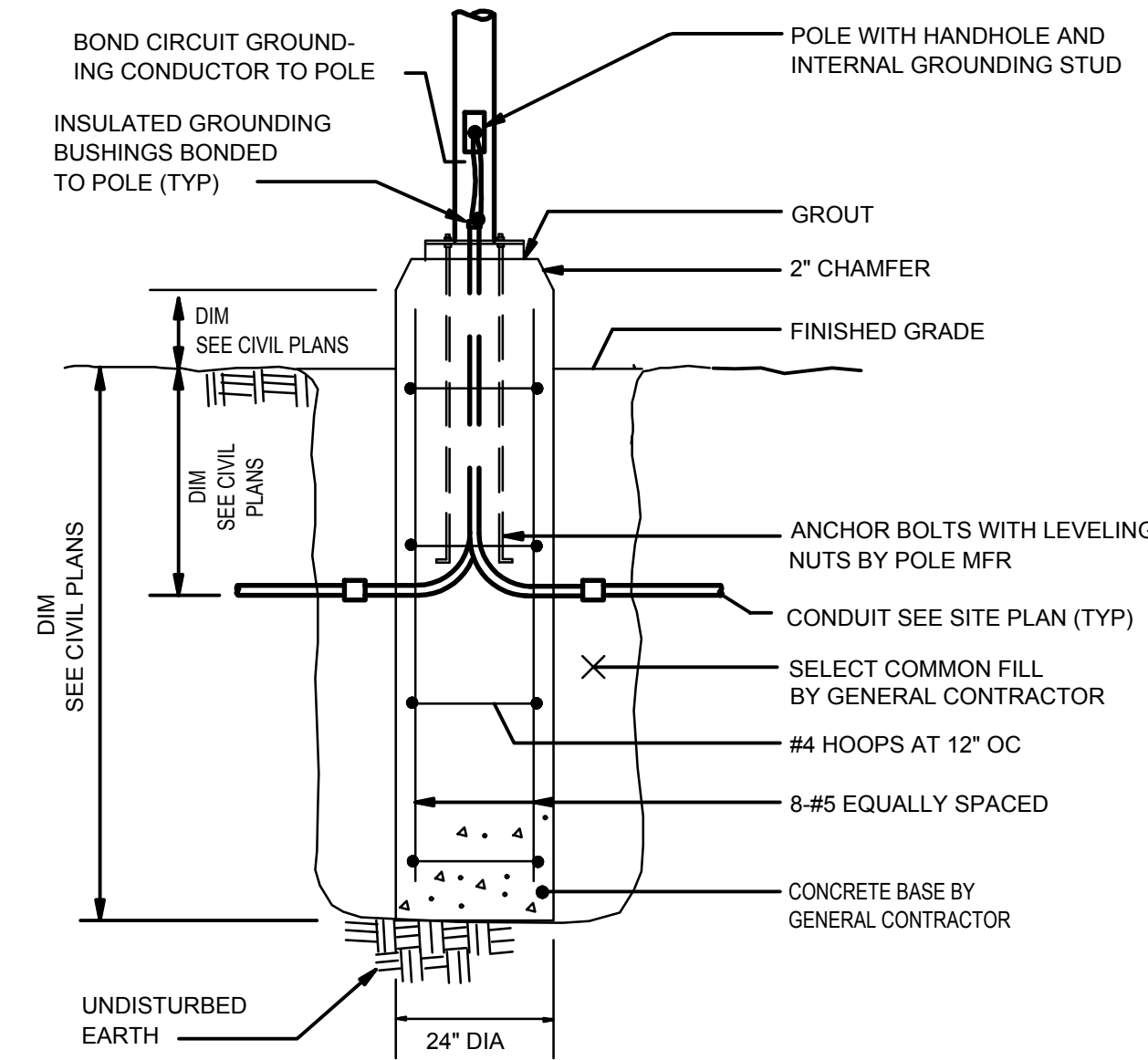
NOT TO SCALE



4 SPORTS LIGHTING POLE DETAIL

SCALE: NOT TO SCALE

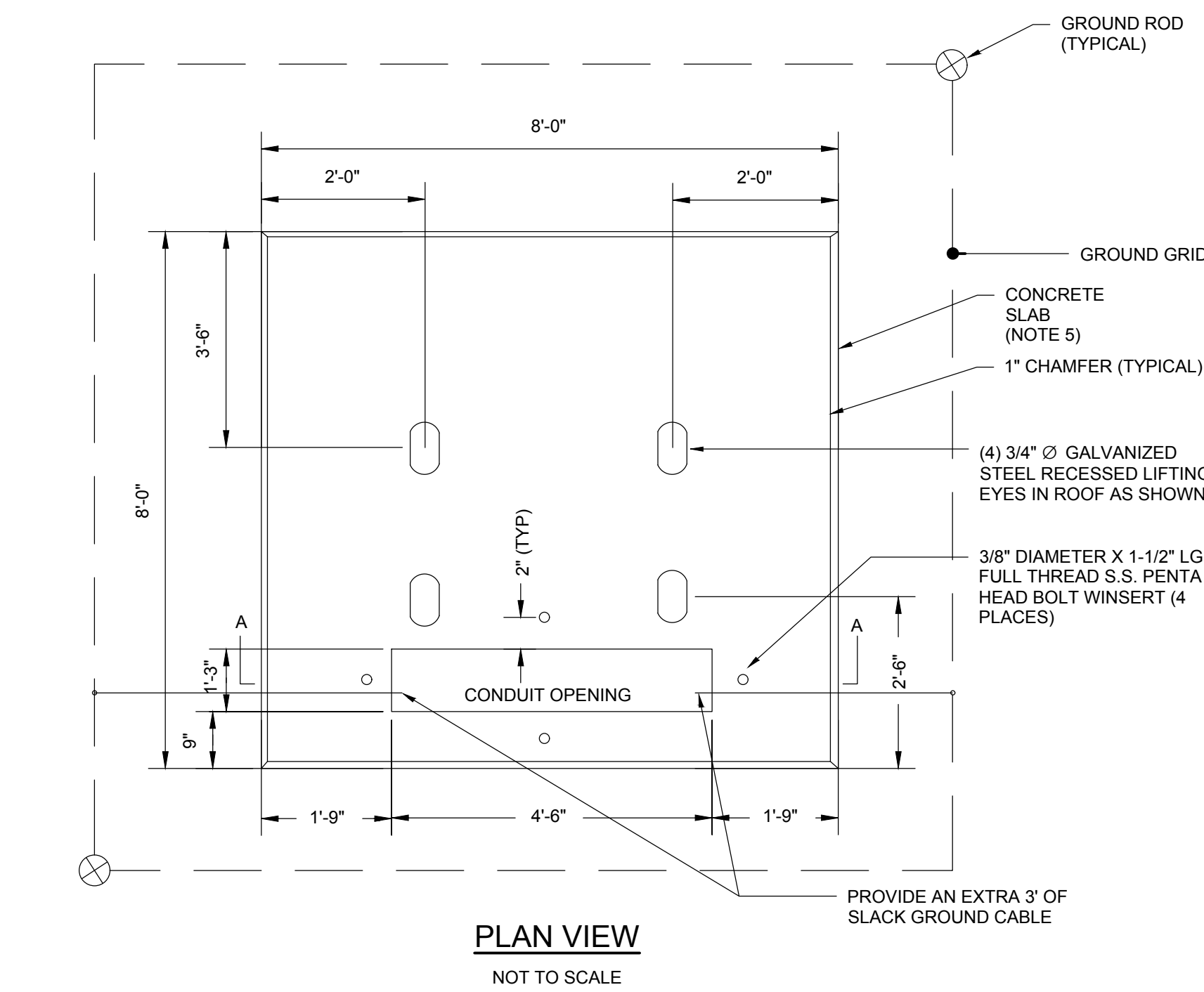
SOIL BACKFILL NOTE:
THE TOP TWO FEET OF ANNULUS SHALL BE BACKFILLED WITH SOIL, WITH A CLASSIFICATION OF CLASS 5 (TABLE 1806.2) OR BETTER. COMPACTION: 95% FOR COHESIVE SOIL AND 98% FOR A COHESIONLESS SOIL BASED UPON STANDARD PROCTOR TESTING (ASTM D698).



5 TYPICAL LIGHT POLE BASE DETAIL

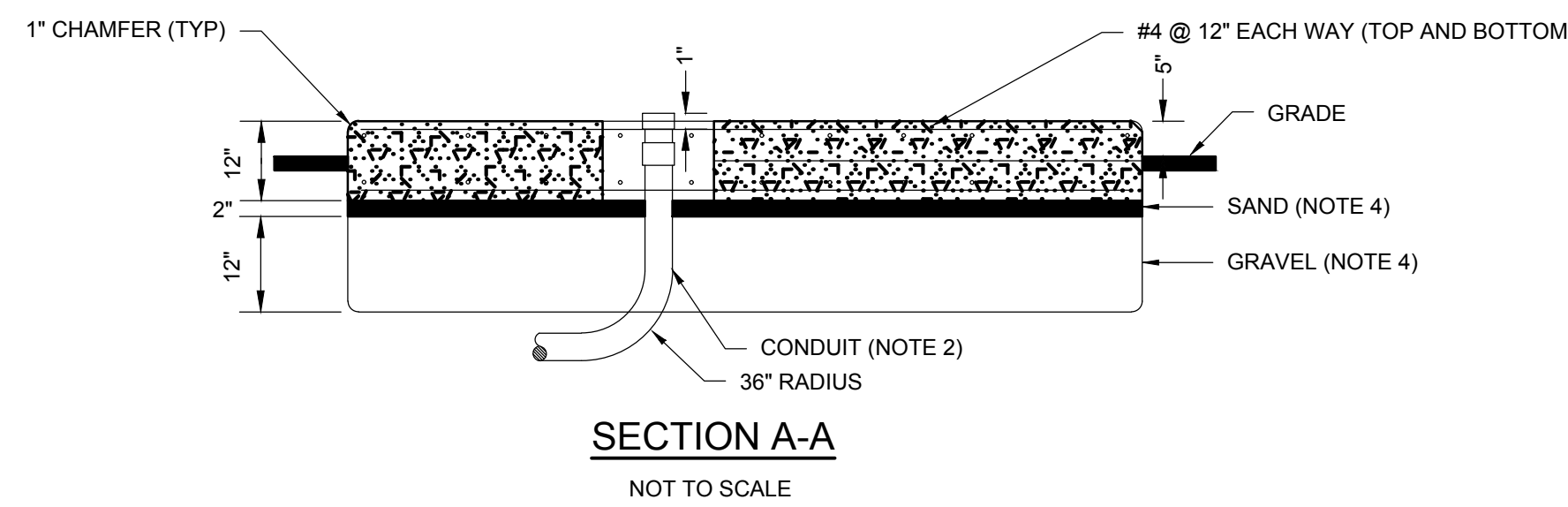
NO SCALE

NOTE:
ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR. ALL EXCAVATION, BACKFILL & CONCRETE SHALL BE BY GENERAL CONTRACTOR



6 PAD MOUNTED TRANSFORMER DETAIL

NOT TO SCALE



SECTION A-A

NOT TO SCALE

PADMOUNT - FOUNDATION NOTES:

1. SCOPE - THIS STANDARD COVERS SPECIFICATIONS FOR THE CONSTRUCTION OF PADMOUNT TRANSFORMER FOUNDATIONS AND GROUNDING FOR HOLDEN LIGHT DEPARTMENT
2. CONDUIT BY ELECTRICAL CONTRACTOR - INSTALL AS SHOWN BEFORE SLAB IS POURED. USE 36" RADIUS BENDS, WITH COUPLINGS, NIPPLES AND BUSHINGS AS REQUIRED. (MATERIAL MAY BE GALVANIZED STEEL, BLACK IRON, OR TYPE II FIBER OR PLASTIC). TERMINATIONS OF CONDUITS SHALL BE LOCATED EXACTLY AS SHOWN, SOLID OR DOTTED, DEPENDING UPON NUMBER OF DUCTS. THE NIPPLE AND BUSHING SHOULD BE INSTALLED AFTER THE TRANSFORMER IS PLACED AND BEFORE THE CABLES ARE PULLED.
3. GROUND GRID BY ELECTRICAL CONTRACTOR - INSTALL #10 S.D. 7 STRAND BARE COPPER WIRE LOOP 1'-0" BELOW GRADE. BOND TO ALL EXPOSED METALLIC CONDUIT AND LEAVE 3'-0" OF WIRE ABOVE PAD FOR GROUNDING TRANSFORMER AT TWO OPPOSITE POINTS IN THE CABLE CONDUIT OPENINGS. 3A. PHOS-COPPER BRAZE CONNECTIONS, CADWELD, OR USE TWO APPROVED CONNECTORS PER JOINT. INSTALL TWO 8 FT. GALVANIZED STEEL (3/4") GROUND RODS WHERE SHOWN. LEAVE GRID EXPOSED UNTIL INSPECTED BY THE UTILITY COMPANY.
4. GRAVEL & SAND BY GENERAL CONTRACTOR - SHALL BE PLACED AS SHOWN. THE GRAVEL BEING COMPACTED AND THE SAND THOROUGHLY WETTED JUST BEFORE PLACING THE CONCRETE.
5. CONCRETE SLAB BY GENERAL CONTRACTOR - CONCRETE IN ACCORDANCE WITH UTILITY COMPANY REQUIREMENTS. REINFORCE WITH 1/2" RODS LOCATED ON A 12" X 12" GRID AND LOCATED IN THE MIDDLE OF THE SLAB.
6. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANY FOR ALL INSTALLATION REQUIREMENTS PRIOR TO THE START OF ANY WORK.

MINIMUM PAD REQUIREMENTS

1. CONCRETE MINIMUM STRENGTH, 5000 PSI @ 28 DAYS.
2. STEEL REINFORCEMENT - ASTM A615, GRADE 60.
3. MINIMUM STEEL COVER, 1-1/2 INCHES.
4. DESIGN LOADING -- AASHTO HS20-44.
5. DESIGN SPECIFICATIONS -- ACI 318 & AASHTO LOAD FACTOR DESIGN METHOD.
6. REINFORCED TO SUPPORT H-20 WHEEL LOAD.
7. MANUFACTURERS NAME TO BE STENCILED ON VERTICAL WALL OF CUTOUT OPENING.

Consultants:

No.	Date	Description

COA:

Seal:
ROBERT F. McALEER
ELECTRICAL
No. 48017
REGISTERED ENGINEER

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