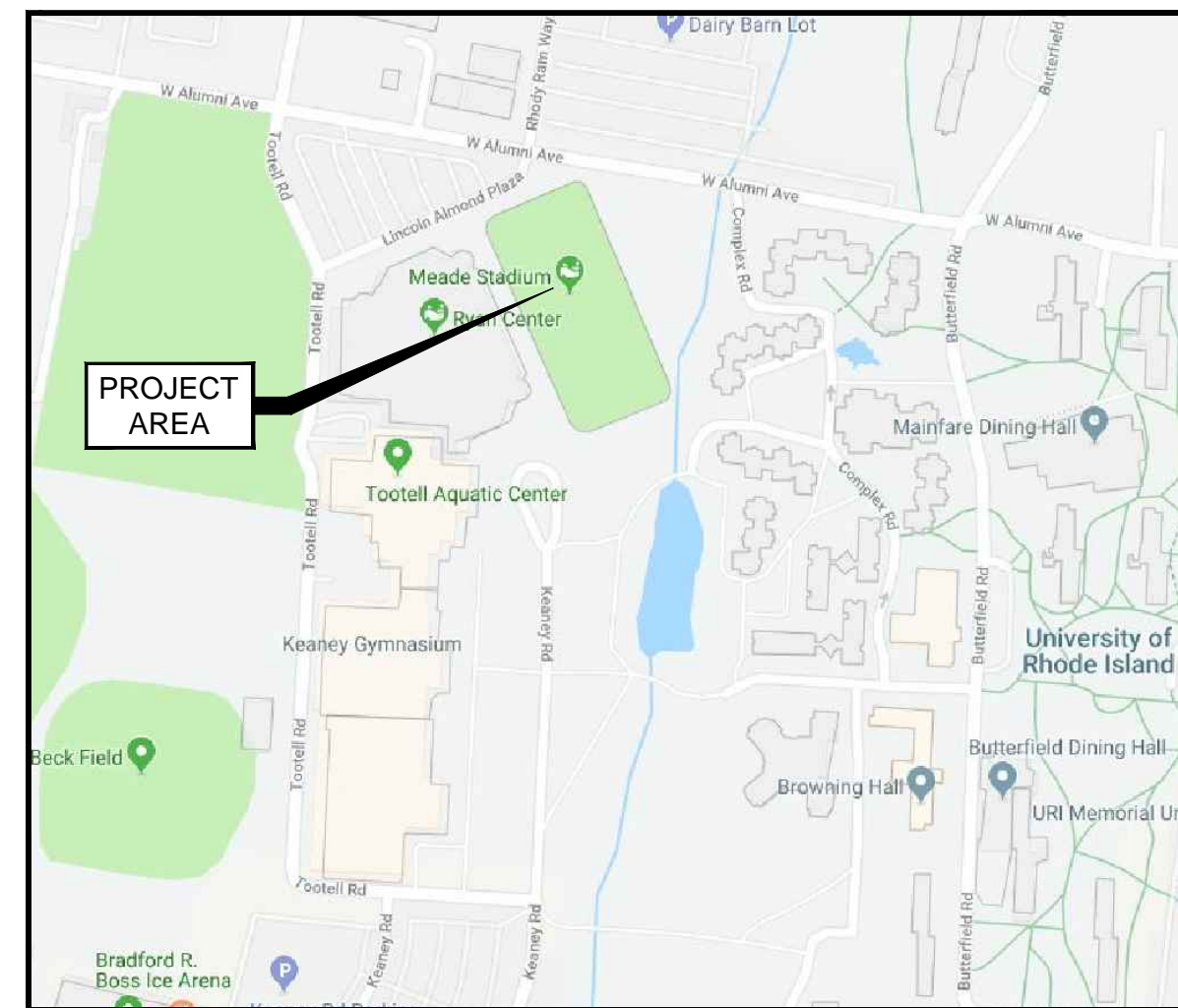


# UNIVERSITY OF RHODE ISLAND

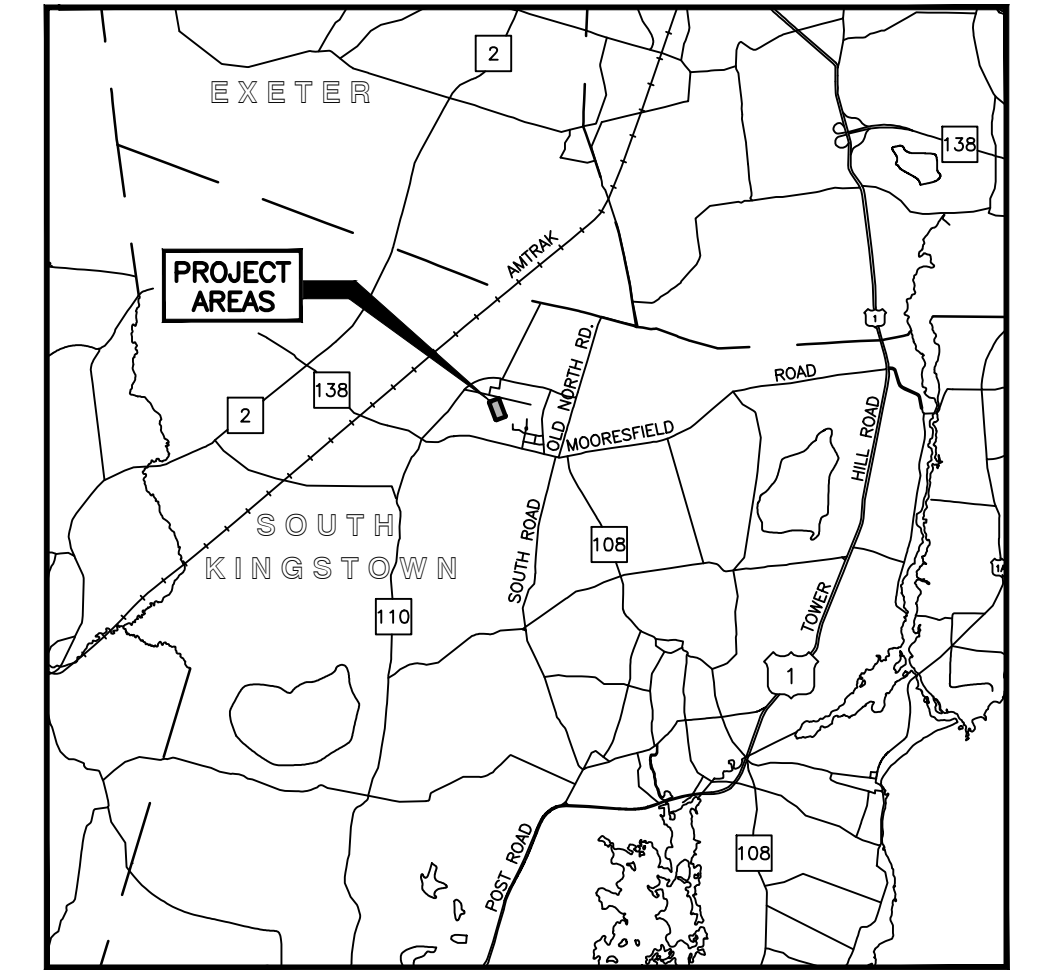
## Office of Capital Projects

### PLANS AND DETAILS OF MEADE STADIUM FIELD TURF & LIGHTING IMPROVEMENTS KINGSTON, RHODE ISLAND

PROJECT NO. KC.A.MEAD.2018.001



LOCATION MAP  
NOT TO SCALE



LOCATION MAP  
SCALE: 1" = 2 Miles

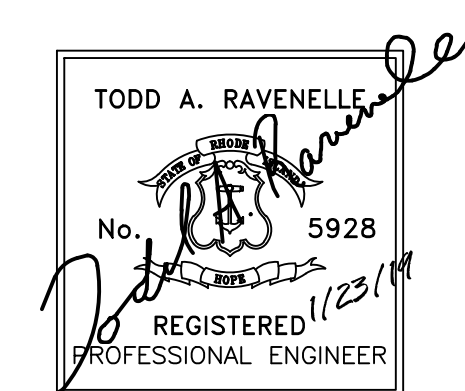
# THE UNIVERSITY OF RHODE ISLAND

## INDEX

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	NOTES & LEGEND
3	EXISTING CONDITIONS PLAN
4	GENERAL PLAN AND EROSION CONTROL
5	GRADING AND DRAINAGE PLAN
6 - 10	DETAILS 1 - 5
11 - 15	ELECTRICAL PLANS AND DETAILS



JANUARY 2019



Number of Sheet 1  
Total Sheets 15

**LEGEND**

- 1.3.0 CONCRETE CONNECTING COLLAR
- 4.2.0 PRECAST 4'-0" ROUND MANHOLE
- 4.4.0 PRECAST 4'-0",5'-0" OR 6'-0" ROUND CATCH BASIN
- 4.6.0 CONCRETE COVER FOR SHALLOW 4'-0" MANHOLES
- 4.7.2 ALTERNATE TOP COVER FOR ROUND PRECAST MANHOLES AND CATCH BASINS
- 5.3.0 CATCH BASIN AND MANHOLE STEP
- 6.2.1 HEAVY-DUTY ROUND FRAME AND COVER
- 6.3.0 SQUARE FRAME AND GRATE
- 7.1.0 PRECAST CONCRETE CURB
- 7.3.0 GRANITE CURB
- 7.6.0 CURB SETTING DETAIL
- 8.4.0 PAVED WATERWAY
- 31.2.0 (MOD.) CHAIN LINK FENCE 6'-0" WITH TOP RAIL
- 43.1.0 CEMENT CONCRETE SIDEWALK
- BOL UTILITY BOLLARD (SEE DETAIL)
- BRW BLOCK RETAINING WALL
- CBP CATCH BASIN INLET PROTECTION (SEE DETAIL)
- CFS COMPOST FILTER SOCK (SEE DETAIL)
- CG CLEAR AND GRUB
- CSC CLEAN & SEAL CONCRETE (ITEM)
- CSS CRUSHED SEA SHELLS
- ETR EXISTING TO REMAIN (ITEM)
- LOD LIMIT OF DISTURBANCE
- LS 6-INCH LOAM AND SEED
- RD REMOVE & DISPOSE (ITEM)
- RDTF REMOVE & DISPOSE TURF
- RR REMOVE & RESET (ITEM)
- RS REMOVE & SALVAGE (ITEM)
- SLT STADIUM LIGHT
- TC NOTCHED TURF CURB
- TCF NOTCHED TURF CURB WITH INTEGRAL FENCE

- ELEV. --- EXISTING CONTOUR LINE
- x ELEV. EXISTING SPOT GRADE
- 118 --- FUTURE CONTOUR LINE
- INV. 112.10 FUTURE DRAINAGE INVERTS
- E --- PROPOSED ELECTRIC CONDUIT
- x x x PROPOSED FENCE
- /// SAWCUT AND MATCH EXISTING PAVEMENT
- ELEV. --- PROPOSED CONTOUR LINE
- x ELEV. PROPOSED SPOT GRADE
- ⬤ PROPOSED FIELD LIGHTS
- ⊕ GP-1 GEO-PROBE BORING
- ⊞ TH-1 TEST HOLE

**GENERAL NOTES**

- REFERENCE IS MADE TO THE LATEST EDITIONS OF THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION (RIDOT) "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" (AMENDED AUGUST 2013, INCLUDING ALL SUBSEQUENTLY ISSUED SUPPLEMENTS, REVISIONS, AND ADDENDA) AND THE "RHODE ISLAND STANDARD DETAILS" (1998, INCLUDING ALL SUBSEQUENT REVISIONS, ADDITIONS AND DELETIONS ISSUED BY THE RIDOT). ALL PROJECT SITE IMPROVEMENTS SHALL CONFORM TO THE APPLICABLE STANDARDS SET FORTH IN THESE DOCUMENTS (AND THE SUB-REFERENCES INCORPORATED THEREIN) UNLESS OTHERWISE INDICATED IN THE CONTRACT DOCUMENTS.
- THE PROJECT LIMITS OF CLEARING AND SURFACE DISTURBANCE MUST BE STRICTLY ADHERED TO IN ALL AREAS. IN ADDITION TO THOSE AREAS SPECIFICALLY DESIGNATED ON THE PLANS, THE CONTRACTOR WILL BE RESPONSIBLE FOR RESTORING (THROUGH PROVISION AND PLACEMENT OF LOAM AND SEED) ANY UNPAVED AREAS OUTSIDE OF THE PROJECT LIMITS OF DISTURBANCE IMPACTED BY CONSTRUCTION OPERATIONS. ANY REQUIRED RESTORATION OUTSIDE THE PROJECT LIMITS OF DISTURBANCE SHALL BE COMPLETED TO THE SATISFACTION OF THE ENGINEER AND AT THE CONTRACTOR'S EXPENSE.
- ANY DAMAGE CAUSED BY THE CONTRACTOR TO EXISTING CURBING, SIDEWALKS, PAVEMENTS, FENCES, OR OTHER SITE FEATURES TO REMAIN IN PLACE SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISPOSAL OF ALL EXCESS EXCAVATED PAVEMENTS, CURBING, SIDEWALKS, CURB STOPS, AND OTHER CONSTRUCTION WASTE IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL LAWS AND REGULATIONS.
- THE CONTRACTOR SHALL MAINTAIN ALL EXCAVATION IN A DRY CONDITION. NO SEPARATE PAYMENT OR ALLOWANCE SHALL BE MADE FOR DEWATERING.
- THE CONTRACTOR SHALL PROVIDE CONTINUOUS DUST CONTROL (USING WATER AND/OR CALCIUM CHLORIDE OR OTHER APPROVED METHODS) FOR ALL EARTH STOCKPILES, EARTH PILED ALONG EXCAVATIONS AND SURFACES OF BACK FILLED TRENCHES, IN ACCORDANCE WITH THE RIDOT STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER.
- THE CONTRACTOR SHALL PROVIDE ALL REQUIRED NOTICES AND COMPLY WITH ALL PERMITS, LAWS, ORDINANCES, RULES AND REGULATIONS BEARING ON THE CONDUCT OF THE WORK AS DRAWN AND SPECIFIED IN THE CONTRACT DOCUMENTS.
- EXISTING UTILITIES HAVE BEEN PLOTTED FROM BEST AVAILABLE DATA AND ARE APPROXIMATE ONLY. IN ACCORDANCE WITH CURRENT STATE "DIG SAFE" LAWS AND RULES, THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING DRAINAGE SYSTEM ELEMENTS AND UTILITIES (BOTH UNDERGROUND AND OVERHEAD) BEFORE ANY EXCAVATION MAY COMMENCE. THE CONTRACTOR IS ADVISED THAT (A) NOT ALL UTILITY PROVIDERS SUBSCRIBE TO THE DIG SAFE PROGRAM, AND (B) IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY ALL POTENTIALLY AFFECTED UTILITY COMPANIES AND ENSURE THAT ALL UTILITIES HAVE BEEN MARKED PRIOR TO THE COMMENCEMENT OF WORK. EXCAVATION SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE STATUTES, ORDINANCES, RULES AND REGULATIONS OF ANY MUNICIPAL, STATE OR FEDERAL AGENCY OR AUTHORITY HAVING JURISDICTION OVER THE WORK. ANY DAMAGE TO EXISTING UTILITIES MARKED IN THE FIELD OR UNMARKED UTILITIES (AS A RESULT OF FAILING TO CONTACT THE APPROPRIATE UTILITY COMPANY) SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO COST TO THE OWNER.
- THE CONTRACTOR IS ADVISED THAT WORK UNDER EXISTING OVERHEAD UTILITIES IS REQUIRED, AND THAT MINIMUM CLEARANCES SHALL BE MAINTAINED AT ALL TIMES IN ACCORDANCE WITH UTILITY COMPANY REQUIREMENTS. THIS MAY REQUIRE SPECIAL MEANS AND METHODS IN ORDER TO PROPERLY COMPLETE THE WORK. SHOULD THE CONTRACTOR ELECT TO RELOCATE EXISTING OVERHEAD UTILITIES, THEN THE CONTRACTOR SHALL CONDUCT ALL COORDINATION WITH THE AFFECTED UTILITY COMPANIES AND BEAR ALL COSTS ASSOCIATED WITH UTILITY RELOCATIONS NOT INCLUDED IN THE CONTRACT.
- THE CONTRACTOR IS ADVISED THAT THE PROJECT LIMIT IS LOCATED WITHIN A DESIGNATED FLOOD ZONE, DETERMINED TO FLOOD FOR MINIMAL STORM EVENTS. THE UNIVERSITY IS NOT RESPONSIBLE FOR IMPACTS RELATED TO FLOODING DURING CONSTRUCTION.
- PRIOR TO DRAINAGE AND UTILITY CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION (HORIZONTAL AND VERTICAL) OF ALL EXISTING PIPES AND/OR STRUCTURES WHICH ARE TO BE CONNECTED OR REMOVED. ANY VARIATION FROM THE PLANS MUST BE BROUGHT TO THE ENGINEER'S ATTENTION PRIOR TO DRAINAGE AND UTILITY CONSTRUCTION, WHEREUPON WORK CAN COMMENCE ONLY UPON THE ENGINEER'S AUTHORIZATION.
- ALL EXISTING PIPE, SUBSURFACE STRUCTURES, PAVEMENTS, EXCESS EXCAVATED MATERIALS AND MISCELLANEOUS MATERIALS REMOVED IN THE COURSE OF UTILITY WORK (INSTALLATION OF DRAINAGE, WATER AND SEWER PIPING, ETC.) SHALL BE LEGALLY DISPOSED OF BY THE CONTRACTOR AT AN OFFSITE LOCATION.
- WHERE UNDERGROUND UTILITY CROSSINGS ARE REQUIRED, AT LEAST TWO (2) TEST PITS SHALL BE DUG TO DETERMINE THE LOCATION/DEPTH AND MATERIAL OF THE EXISTING UTILITY.
- UTILITY SERVICES TO EXISTING BUILDINGS AND FACILITIES SHALL BE MAINTAINED AT ALL TIMES FOR THE DURATION OF CONSTRUCTION.
- THE CONTRACTOR SHALL ENSURE THAT ALL ASPECTS OF THE ATHLETIC FIELD ARE PROPERLY RESTORED AND FUNCTIONING. ALL ASPECTS SHALL BE COMPLETED IN FULL COMPLIANCE WITH THE NCAA CRITERIA.
- THE CONTRACTOR SHALL ADJUST ALL UTILITY BOXES, FRAMES, AND COVERS AS REQUIRED TO MATCH FINISH GRADE.
- THE CONTRACTOR SHALL UTILIZE THE AREA, AS CALLED OUT ON THE CONTRACT DRAWINGS FOR STOCKPILE AND MATERIAL STORAGE.
- PRIOR TO THE PLACEMENT OF THE SEPTIC GRAVEL, SAND AND CRUSHED STONE, THE BOTTOM SURFACE OF THE INFILTRATION SYSTEM SHALL BE INSPECTED AND APPROVED BY THE OWNER. THE CONTRACTOR SHALL REMOVE ALL ACCUMULATED SEDIMENT DEPOSITED WITHIN THE EXCAVATION WHICH COULD ADVERSELY IMPACT THE UNDERLYING INFILTRATION SYSTEM.

**EROSION AND SEDIMENT CONTROL NOTES**

- SOIL EROSION AND SEDIMENTATION CONTROL MEASURES TO BE EMPLOYED ON THE PROJECT ARE INDICATED ON THE PLANS. CONTROL MEASURES SHALL BE FURNISHED, INSTALLED, MAINTAINED FOR THE DURATION OF CONSTRUCTION, AND SUBSEQUENTLY REMOVED, ALL IN ACCORDANCE WITH THE RIDOT STANDARD SPECIFICATIONS, THE LATEST EDITION OF THE "RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK" (UPDATED 2016), AND ANY SITE-SPECIFIC EROSION AND SEDIMENT CONTROL / POLLUTION PREVENTION PLAN INCLUDED IN THE CONTRACT DOCUMENTS.
  - ALL CLEARING, GRADING AND EARTHWORK ACTIVITIES SHALL REMAIN STRICTLY WITHIN THE LIMITS OF DISTURBANCE (LOD) DEPICTED ON THE PLANS AND SHALL BE RESTRICTED TO ACTIVITIES NECESSARY FOR COMPLETION OF THE WORK. THE CONTRACTOR SHALL ENSURE THAT ALL AREAS OUTSIDE THE LIMITS OF DISTURBANCE REMAIN UNDISTURBED AND PROTECTED FROM CONSTRUCTION IMPACTS.
  - ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE ROUTINELY INSPECTED AND MAINTAINED IN ACCORDANCE WITH THE RIDOT STANDARD SPECIFICATIONS, THE RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK, AND THE APPLICABLE CONDITIONS OF ANY REGULATORY/ENVIRONMENTAL PERMITS ISSUED FOR THE PROJECT.
  - PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES, EROSION AND SEDIMENTATION CONTROLS SHALL BE INSTALLED AT LOCATIONS AND AREAS SHOWN ON THE PLANS. CLEARING MAY OCCUR PRIOR TO INSTALLATION OF SUCH CONTROLS; HOWEVER NO GRUBBING, GRADING, FILLING, OR OTHER SOIL DISTURBANCE SHALL OCCUR PRIOR TO INSTALLATION.
  - PERIMETER EROSION CONTROL BARRIERS (STAKED COMPOST FILTER SOCK, SILT FENCE, OR OTHER DEVICES AS INDICATED) SHALL BE INSTALLED IN CONTINUOUS UNINTERRUPTED RUNS AT THE LOCATIONS INDICATED ON THE PLANS AND MAINTAINED IN EFFECTIVE CONDITION UNTIL ALL DISTURBED AREAS HAVE BEEN STABILIZED WITH VEGETATION, FOLLOWING SUCCESSFUL STABILIZATION OF DISTURBED AREAS. ALL PERIMETER EROSION CONTROL BARRIERS SHALL BE REMOVED PRIOR TO REMOVAL OF THE DEVICES. ALL ACCUMULATED SEDIMENT AND DEBRIS TRAPPED BY THE BARRIERS SHALL BE REMOVED AND DISPOSED OF LEGALLY AT A SUITABLE OFFSITE LOCATION.
  - THE TOE OF ANY FILL SLOPE IS TO REMAIN AT LEAST ONE (1) FOOT INSIDE OF ALL PERIMETER EROSION CONTROL BARRIERS. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR COVER ANY PORTION OF THE EROSION CONTROL MEASURES WITH MATERIAL. ANY MATERIAL THAT IS PLACED ON ANY EROSION CONTROLS BY THE CONTRACTOR (OR ANY AGENT OF THE CONTRACTOR) SHALL BE IMMEDIATELY REMOVED, AND ANY NECESSARY REPAIRS TO THE EROSION CONTROLS SUBSEQUENTLY IMPLEMENTED AT NO COST TO THE OWNER.
  - UNTIL VEGETATIVE COVER IS ESTABLISHED AND DISTURBED AREAS ARE FULLY STABILIZED, TRAPPED SEDIMENTS SHALL BE PERIODICALLY REMOVED FROM PERIMETER EROSION CONTROL BARRIERS. AT A MINIMUM, MATERIAL SHALL BE REMOVED ONCE THE DEPTH OF ACCUMULATED SEDIMENT REACHES SIX (6) INCHES OR ONE-HALF THE BARRIER HEIGHT, WHICHEVER IS LESS. ALL REMOVED MATERIAL SHALL BE DISPOSED OF LEGALLY AT A SUITABLE OFFSITE LOCATION.
  - ALL MATERIAL STOCKPILES SHALL BE LOCATED WITHIN THE LIMITS OF DISTURBANCE (LOD) DEPICTED ON THE PLANS AND SHALL BE SURROUNDED BY A SECURED PERIMETER OF COMPOST FILTER SOCK.
  - ALL EXISTING AND CONSTRUCTED DRAINAGE SYSTEM INLETS SHALL BE PROVIDED WITH INLET PROTECTION DEVICES (FILTER BAGS/SILT SACKS, SANDBAGS, WATTLES, ETC.) AS INDICATED ON THE PLANS. ALL INLET PROTECTION DEVICES SHALL BE INSTALLED, MAINTAINED, AND CLEANED FOR THE DURATION OF CONSTRUCTION AND UNTIL ALL STORMWATER CONTROLS ARE FULLY STABILIZED AND ONLINE, AT WHICH TIME THEY SHALL BE REMOVED.
  - DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING DRAINAGE AND RUNOFF FLOW DURING STORMS AND PERIODS OF RAINFALL.
  - EROSION CONTROL DEVICES SHOULD BE INSPECTED WEEKLY AND AFTER RAINFALL EVENTS EXCEEDING ONE HALF INCH (1/2") IN ANY 24-HOUR PERIOD. WHERE AND WHEN REQUIRED, MAINTENANCE AND REPAIRS SHALL BE COMPLETED WITH 24 HOURS OF THE INSPECTION.
  - DENUDED/UNVEGETATED SLOPES SHALL NOT BE LEFT UNATTENDED OR EXPOSED FOR PERIODS IN EXCESS OF 2 WEEKS OR THROUGH THE INACTIVE WINTER SEASON.
  - ALL DISTURBED SLOPES EITHER NEWLY CREATED OR EXPOSED PRIOR TO OCTOBER 15 SHALL BE SEEDED OR PROTECTED BY THAT DATE FOR ANY WORK COMPLETED DURING EACH CONSTRUCTION YEAR.
  - TEMPORARY SURFACE STABILIZATION TREATMENTS SHALL CONSIST OF A HAY, STRAW, OR FIBER MULCH OR PROTECTIVE COVERS SUCH AS FIBER MESH, EROSION CONTROL BLANKETS, OR OTHER MATTING. THEY SHALL BE INCORPORATED INTO THE WORK AS WARRANTED OR AS DIRECTED BY THE ENGINEER. HAY OR STRAW APPLICATIONS SHOULD BE IN THE AMOUNT OF 3,000-4,000 POUNDS PER ACRE (1.9-2.5 POUNDS PER SQUARE YARD). IF NEEDED, TEMPORARY SEEDING (PROVIDED IN ACCORDANCE WITH APPLICABLE SECTIONS OF THE STANDARD SPECIFICATIONS AND EROSION AND SEDIMENT CONTROL GUIDANCE) MAY BE EMPLOYED TO FURTHER MINIMIZE EROSION.
  - TOPSOIL SHALL HAVE A SANDY LOAM TEXTURE, FREE OF SUBSOIL, STONES, ROCKS, ROOTS, BRUSH, REFUSE, CONSTRUCTION DEBRIS AND OTHER DELETERIOUS MATERIALS AND SHALL CONFORM TO SUBSECTION M.18.01 OF THE RIDOT STANDARD SPECIFICATIONS.
  - THE SEEDED MIX SHALL BE INOCULATED WITHIN 24 HOURS, BEFORE MIXING AND PLANTING, WITH APPROPRIATE INOCULUM FOR EACH VARIETY.
  - THE DESIGN MIX SHALL BE COMPRISED OF THE FOLLOWING AND BE APPLIED AT A SEEDING RATE OF 100 POUNDS PER ACRE:
- | COMPONENT          | % BY WEIGHT |
|--------------------|-------------|
| RED FESCUE         | 70          |
| KENTUCKY BLUEGRASS | 15          |
| COLONIAL BENTGRASS | 5           |
| PERENNIAL RYEGRASS | 10          |
- THE NORMAL ACCEPTABLE SEASONAL SEEDING DATES ARE APRIL 1 - JUNE 1 AND AUGUST 15 - OCTOBER 15.
- STABILIZATION OF ONE FORM OR ANOTHER AS DESCRIBED ABOVE SHALL BE ACHIEVED WITHIN 14 DAYS OF FINAL GRADING. PLANTING OF GRASS SHALL BE ACCOMPLISHED BY THE CONTRACTOR AS EARLY AS POSSIBLE UPON COMPLETION OF GRADING AND CONSTRUCTION.
  - THE CONTRACTOR MUST REPAIR AND OR RESEED ANY AREAS THAT DO NOT DEVELOP WITHIN THE PERIOD OF ONE (1) CALENDAR YEAR AND SHALL DO SO AT NO ADDITIONAL EXPENSE TO THE OWNER.

**MATERIAL NOTES**

- GRAVEL BORROW AND CRUSHED STONE SHALL MEET THE REQUIREMENTS OF THE RIDOT STANDARD SPECIFICATIONS, SECTION M.01.09, TABLE I, COLUMNS I AND II.
  - CHOKER STONE SHALL MEET THE REQUIREMENTS OF AASHTO NO. 89.
  - SAND SHALL MEET THE REQUIREMENTS OF AASHTO M-6 AND SHALL BE POORLY GRADED.
  - "SEPTIC GRAVEL" SHALL MEET THE FOLLOWING CRITERIA OF THE RIDEM'S OWTS RULES, SECTION 32.12:
- | SIEVE SIZE | % PASSING  |
|------------|------------|
| 3/4"       | 90% - 100% |
| #4         | 55% - 100% |
| #10        | 40% - 100% |
| #40        | 10% - 50%  |
| #100       | 0% - 20%   |
| #200       | 0% - 5%    |
- "SEPTIC GRAVEL" SHALL BE PLACED IN SHALLOW LIFTS AND PROPERLY COMPACTED. THE SURFACE SHALL BE LEVEL AND SCARIFIED.

**STORMWATER MAINTENANCE NOTES**

- ALL MAINTENANCE (INCLUDING CLEANING) REQUIRED DURING CONSTRUCTION PHASE OF THE PROJECT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL INCLUDE:
  - MEASURES NEEDED TO ENSURE THE PROPER OPERATION OF CONSTRUCTED STORMWATER MANAGEMENT FACILITIES INCLUDING ALL NECESSARY INSPECTION, CLEANING AND REPAIRS TO FACILITY ELEMENTS INCLUDING ALL PIPING, STRUCTURES, FITTINGS AND OTHER APPURTENANCES.
  - INSPECTION OF ALL SLOPES, BERMS, AND OTHER CONTROL STRUCTURES FOR STRUCTURAL INTEGRITY/STABILITY AND EVIDENCE OF SOIL EROSION PROCESSES, AND MAINTENANCE OF THESE STRUCTURES IF NECESSARY. INSPECTIONS SHALL BE PERFORMED FOLLOWING ALL RAIN EVENTS OF 1/2 INCH RAINFALL OR MORE IN A 24-HOUR PERIOD, OR BI-MONTHLY IF NO RAINFALL EVENT OCCURS.
- UPON COMPLETION OF PROJECT CONSTRUCTION, AND PRIOR TO VACATING THE SITE, THE CONTRACTOR SHALL CONDUCT A FINAL INSPECTION AND CLEANING OF THE DRAINAGE SYSTEM AND ALL ASSOCIATED STRUCTURES.
- AFTER THE COMPLETION OF THE ENTIRE PROJECT TO THE SATISFACTION OF THE ENGINEER, ALL MAINTENANCE OF THE DRAINAGE SYSTEM SHALL THEN BE THE RESPONSIBILITY OF THE UNIVERSITY OF RHODE ISLAND OR THEIR APPOINTED AGENTS.
- OPERATION AND MAINTENANCE OF THE INFILTRATION SYSTEMS SHALL BE CONDUCTED IN ACCORDANCE WITH THE TERMS AND CONDITIONS SET FORTH IN THE RIDEM REGULATORY PERMITS ISSUED FOR THE CONSTRUCTION OF THE PARKING LOTS PROJECT. WRITTEN NOTIFICATION OF ANY CHANGES TO (A) THE PHYSICAL INFRASTRUCTURE OF SYSTEMS OR (B) THE LONG TERM OPERATION AND MAINTENANCE (O&A) PLAN FOR CONSTRUCTED FACILITIES SHALL BE PROVIDED TO THE RIDEM OFFICE OF WATER RESOURCES.

PROJECT  
**MEADE STADIUM FIELD  
TURF PROJECT**  
KINGSTON, RHODE ISLAND

TODD A. RAVENEL  
No. 5928  
REGISTERED  
PROFESSIONAL ENGINEER

CLIENT  
**UNIVERSITY OF RHODE ISLAND**

Gordon R. Archibald, Inc.  
Civil and Environmental Engineers  
Pawtucket, Rhode Island

DRAWING TITLE  
**LEGEND & NOTES**

NO.	DATE	REVISIONS	BY

PROJECT NO.: 1857

DATE: DECEMBER 2018

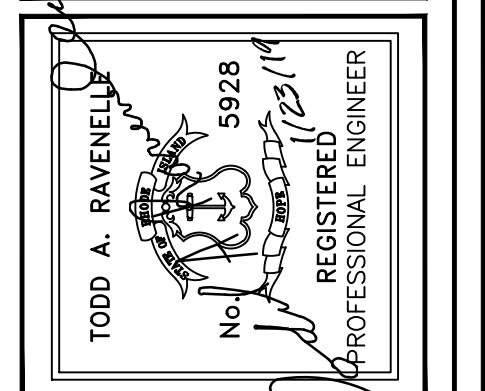
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**2**  
SHEET 2 OF 15

PROJECT  
**MEADE STADIUM FIELD TURF PROJECT**  
 KINGSTON, RHODE ISLAND



CLIENT  
**UNIVERSITY OF RHODE ISLAND**

Gordon R. Archibald, Inc.  
 Civil and Environmental Engineers  
 Pawtucket, Rhode Island

DRAWING TITLE  
**EXISTING CONDITIONS PLAN**

NO.	DATE	REVISIONS	BY

PROJECT NO.: 1857

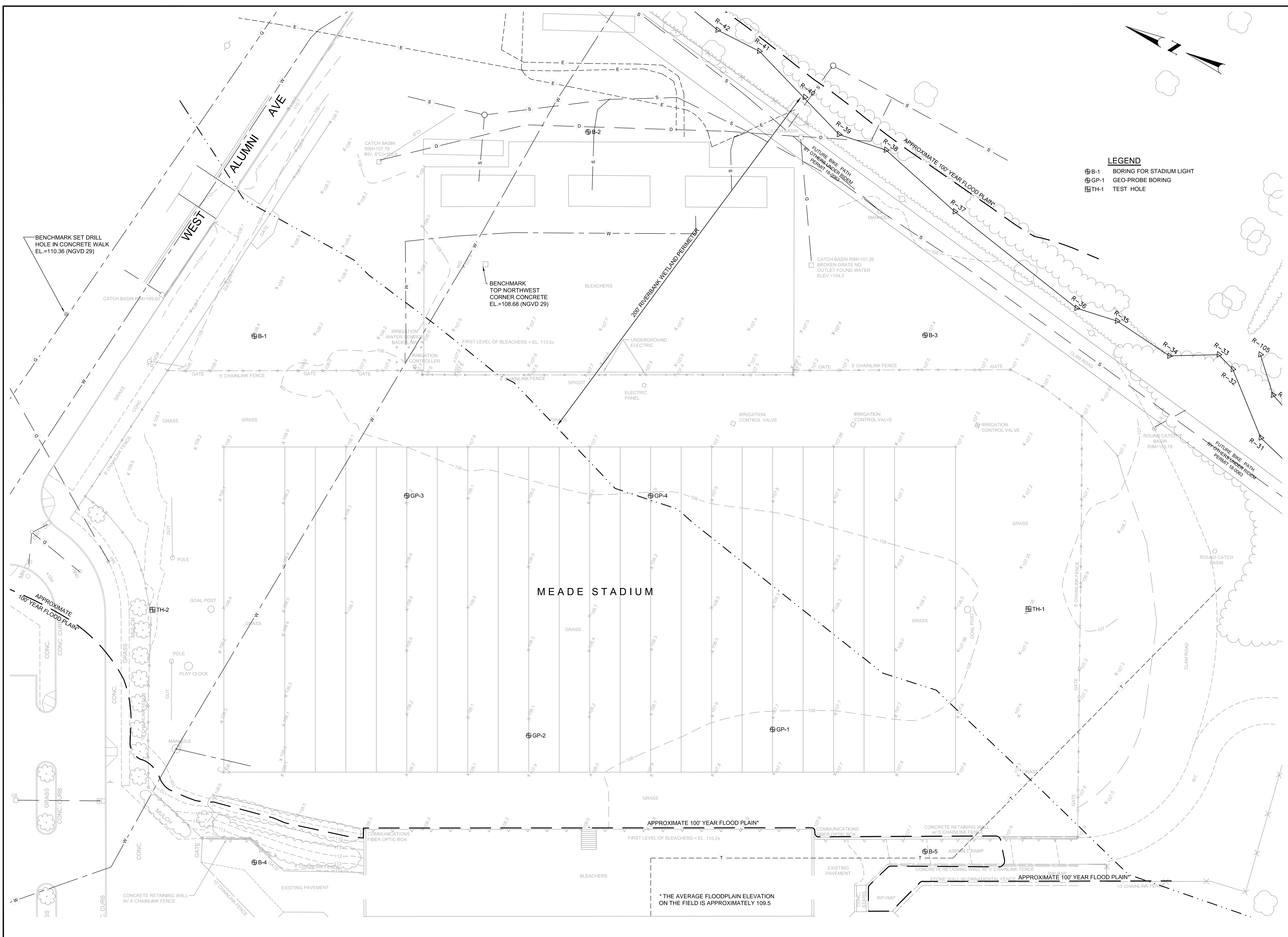
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 SHEET 3 OF 15



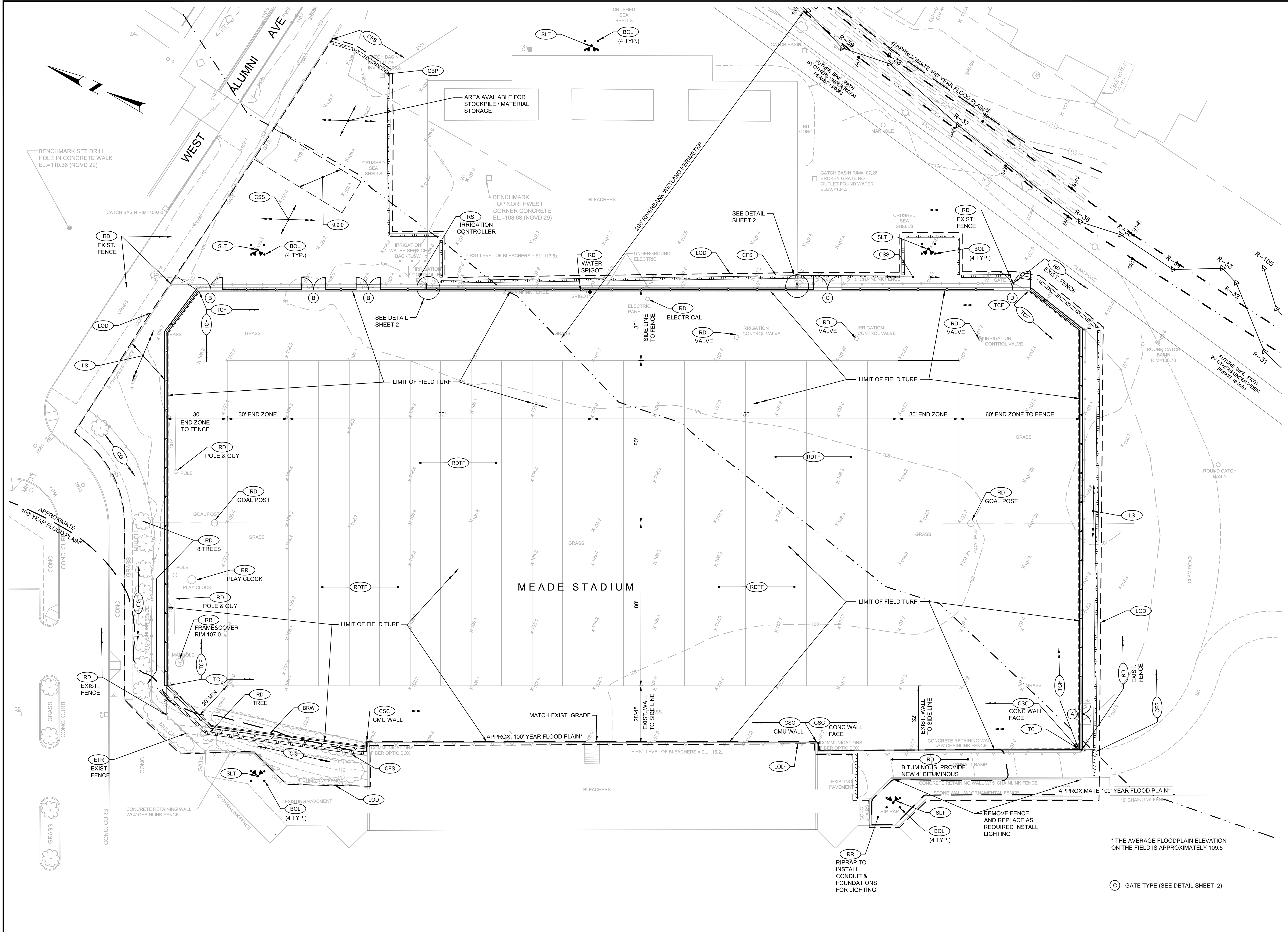
**LEGEND**  
 ⊕B-1 BORING FOR STADIUM LIGHT  
 ⊕GP-1 GEO-PROBE BORING  
 ⊕TH-1 TEST HOLE

BENCHMARK  
 TOP NORTHWEST  
 CORNER CONCRETE  
 EL.=108.68 (NGVD 29)

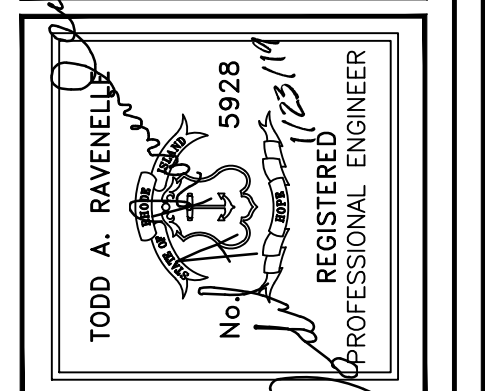
BENCHMARK SET DRILL  
 HOLE IN CONCRETE WALK  
 EL.=110.36 (NGVD 29)

\* THE AVERAGE FLOODPLAIN ELEVATION  
 ON THE FIELD IS APPROXIMATELY 109.5

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PROJECT  
**MEADE STADIUM FIELD  
 TURF PROJECT**  
 KINGSTON, RHODE ISLAND



CLIENT  
**UNIVERSITY OF RHODE ISLAND**  
 GORDON R. ARCHIBALD, INC.  
 Civil and Environmental Engineers  
 Pawtucket, Rhode Island

DRAWING TITLE  
**GENERAL AND  
 EROSION CONTROL PLAN**

NO.	DATE	REVISIONS	BY

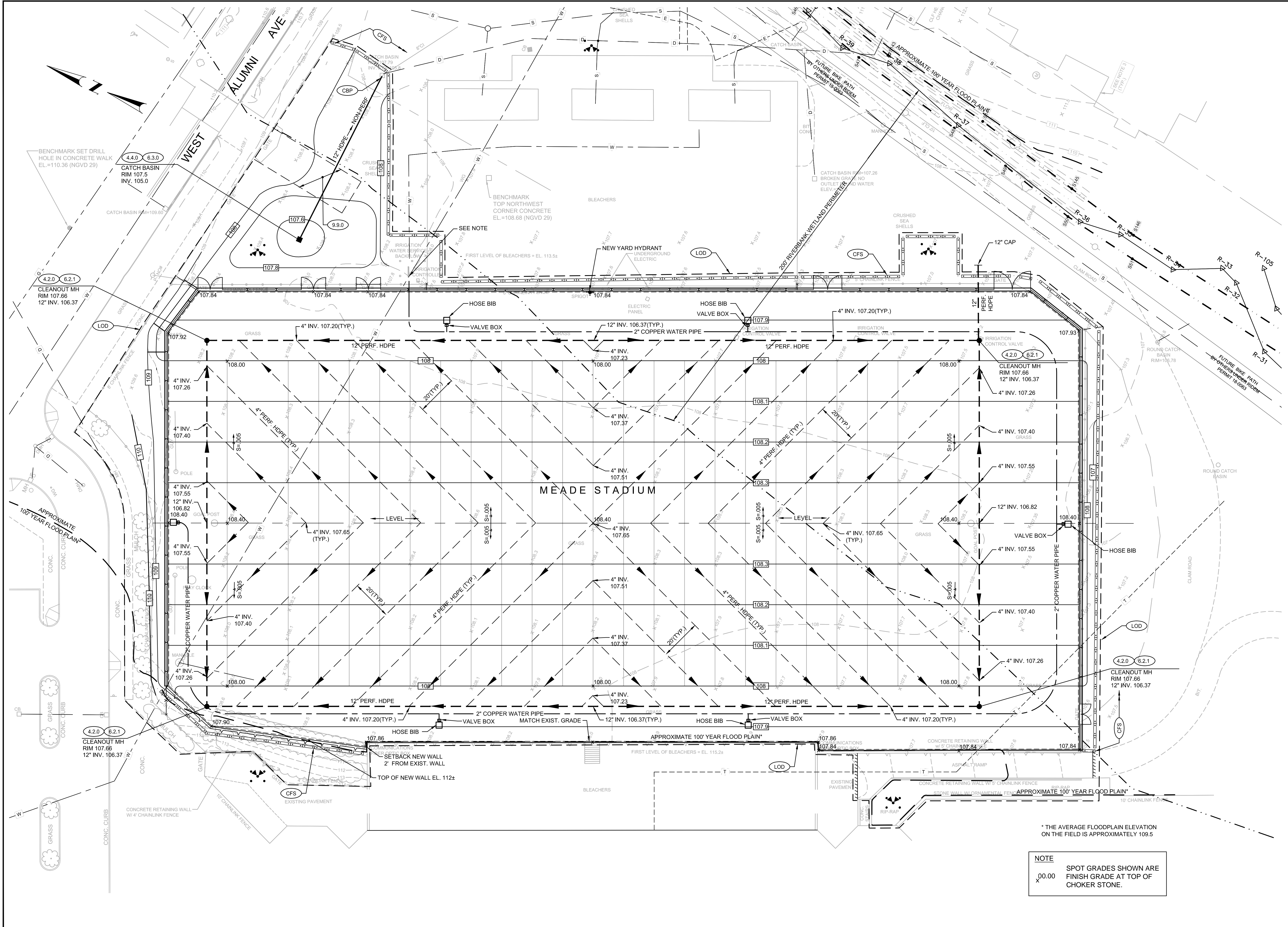
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 SHEET 4 OF 15

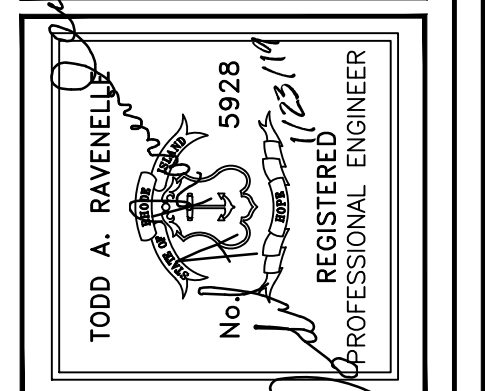
\* THE AVERAGE FLOODPLAIN ELEVATION ON THE FIELD IS APPROXIMATELY 109.5

(C) GATE TYPE (SEE DETAIL SHEET 2)

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PROJECT  
**MEADE STADIUM FIELD  
 TURF PROJECT**  
 KINGSTON, RHODE ISLAND



CLIENT  
**UNIVERSITY OF RHODE ISLAND**

Gordon R. Archibald, Inc.  
 Civil and Environmental Engineers  
 Pawtucket, Rhode Island

DRAWING TITLE  
**GRADING & DRAINAGE PLAN**

NO.	DATE	REVISIONS	BY

PROJECT NO.: 1857

DATE: DECEMBER 2018

SCALE: 1" = 20'

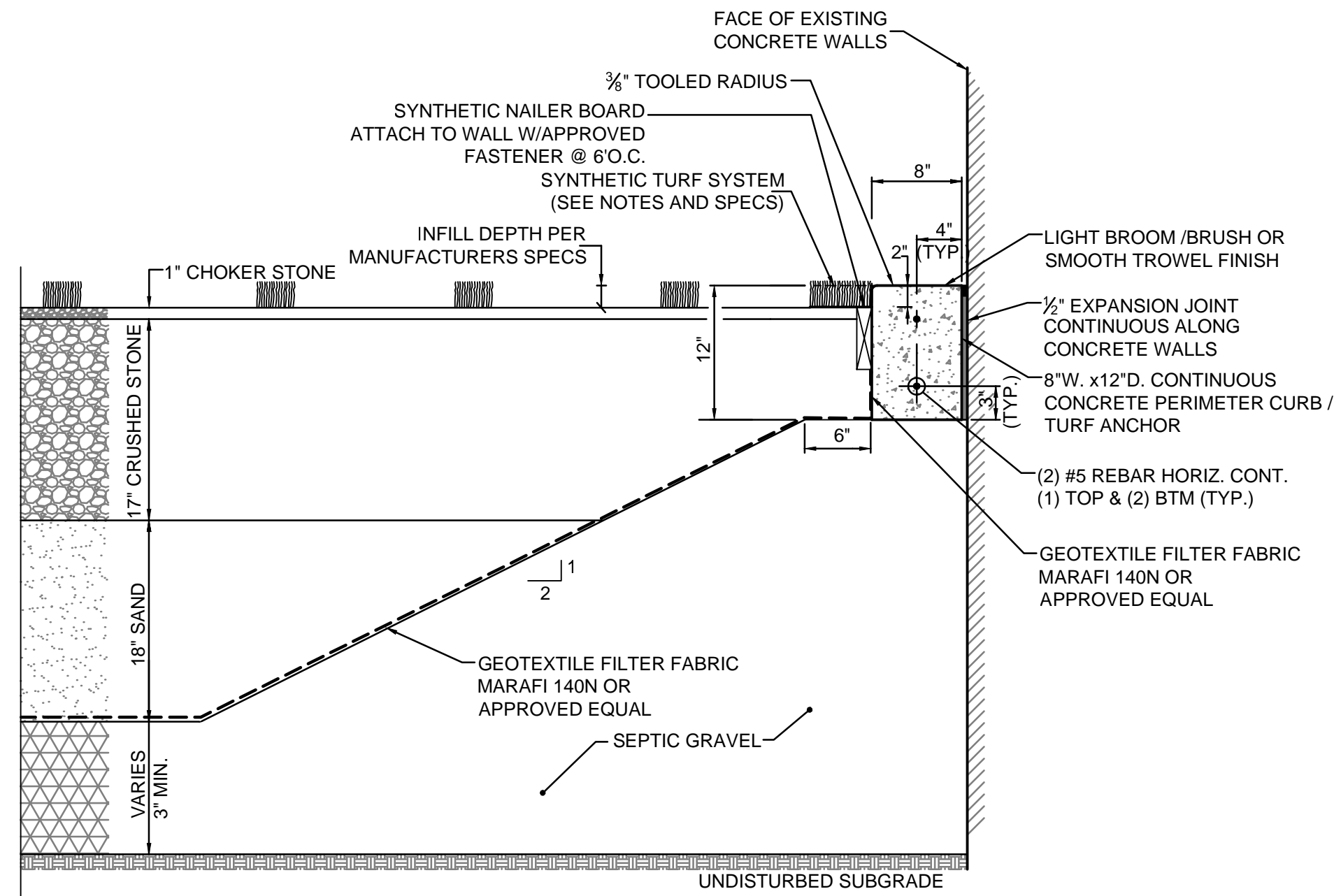
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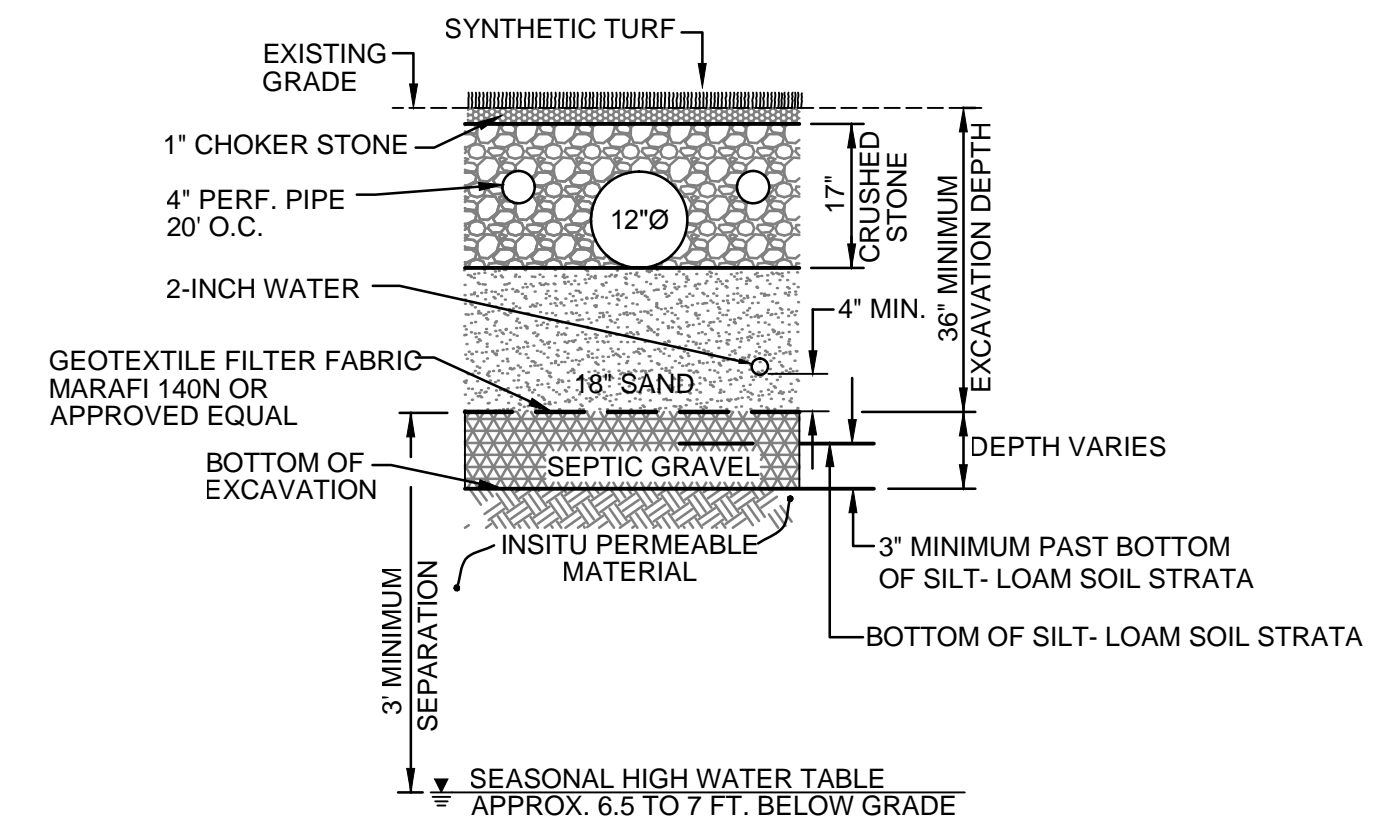
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**5**  
 SHEET 5 OF 15

NOTE  
 X 00.00 SPOT GRADES SHOWN ARE  
 FINISH GRADE AT TOP OF  
 CHOKER STONE.

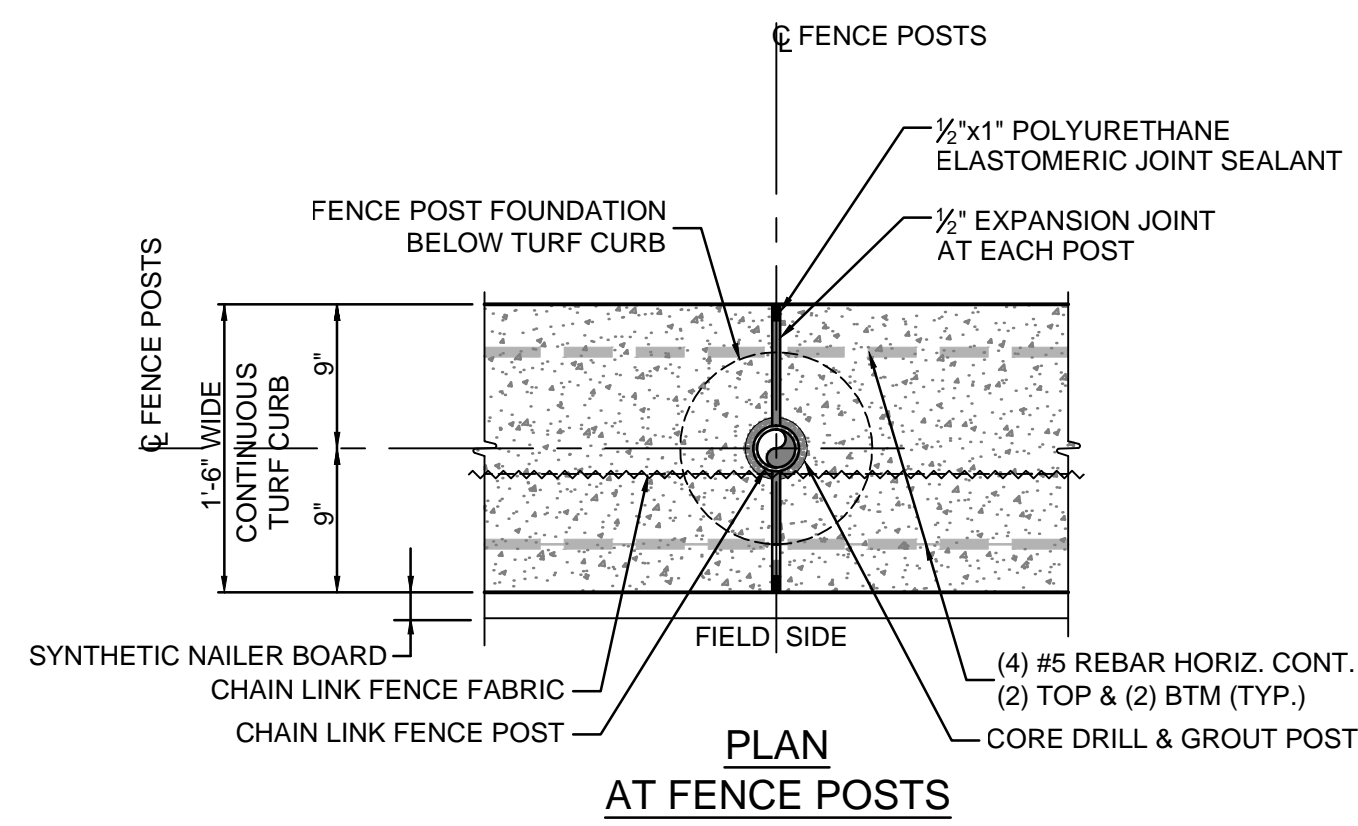
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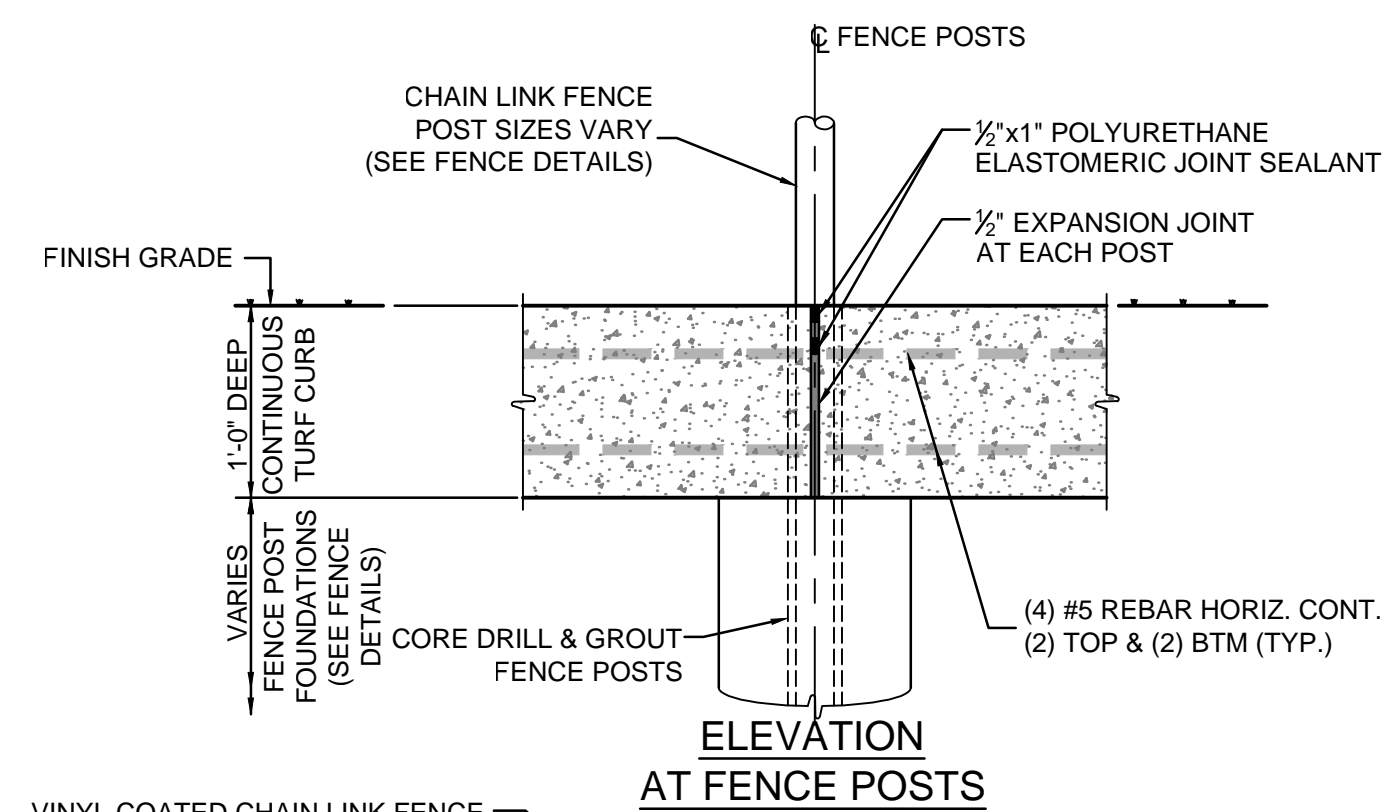
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TYPICAL NOTCHED  
TURF CURB (TC)  
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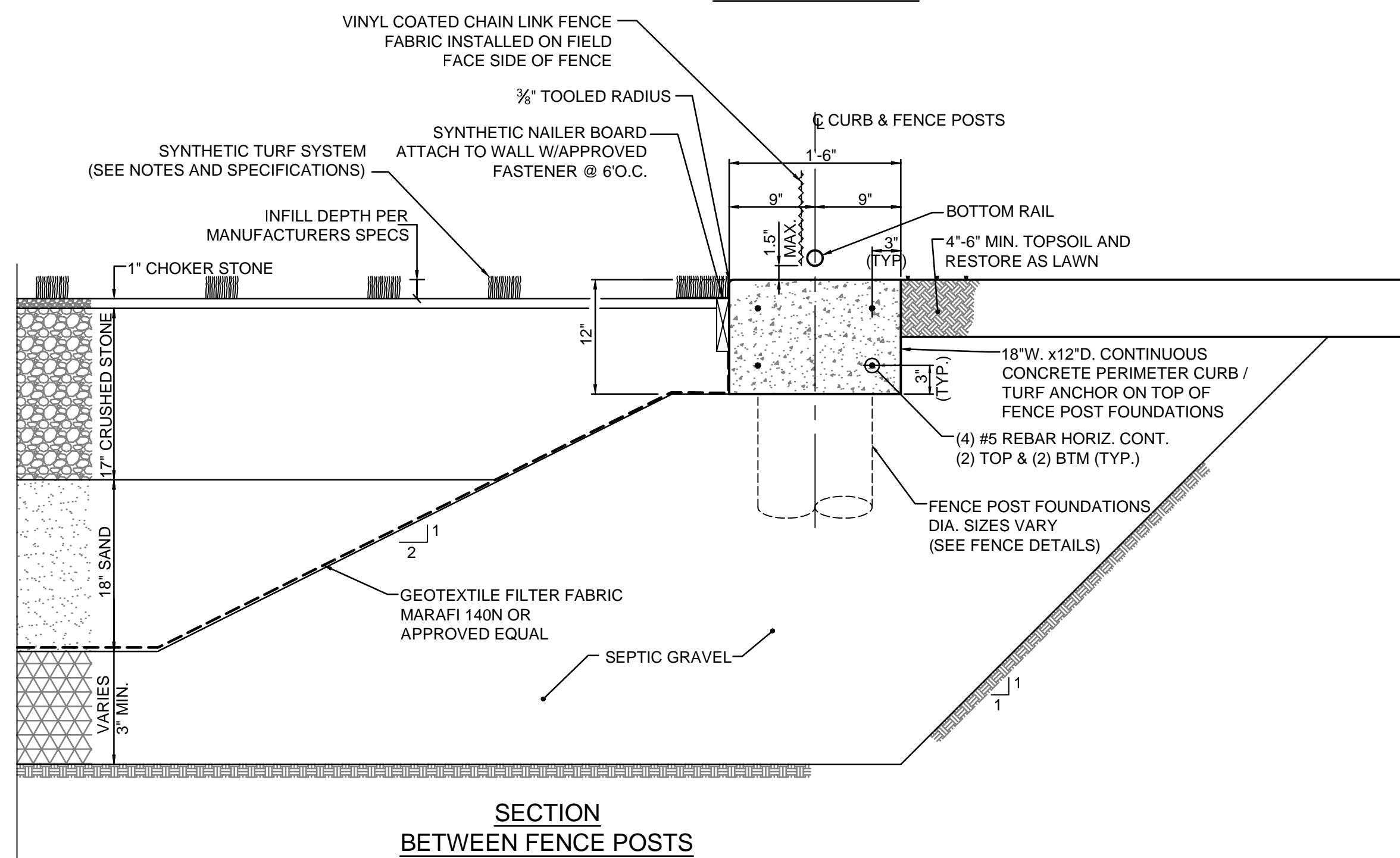
TURF-INFILTRATION SYSTEM  
TYPICAL SECTION  
N.T.S.



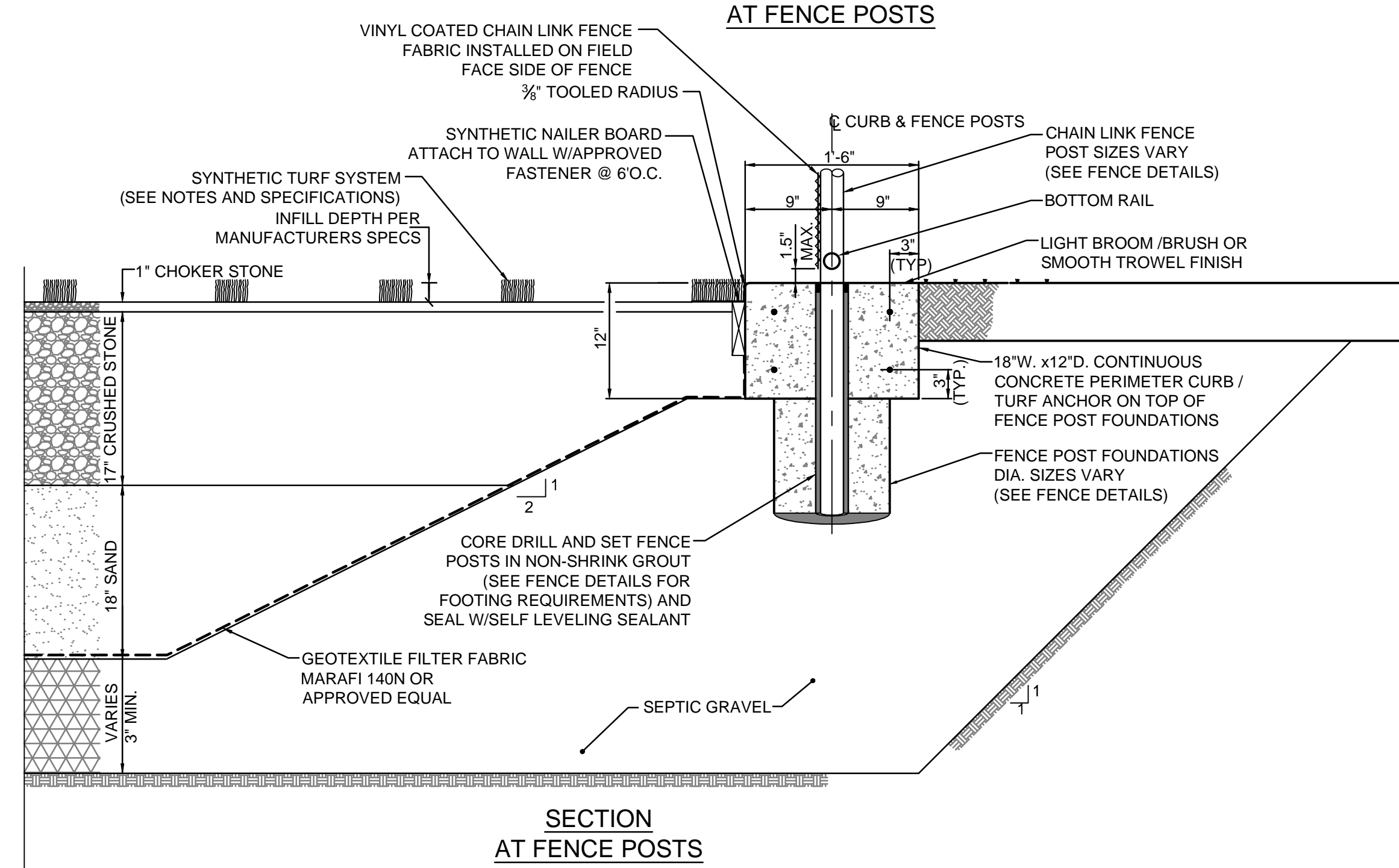
PLAN  
AT FENCE POSTS



ELEVATION  
AT FENCE POSTS



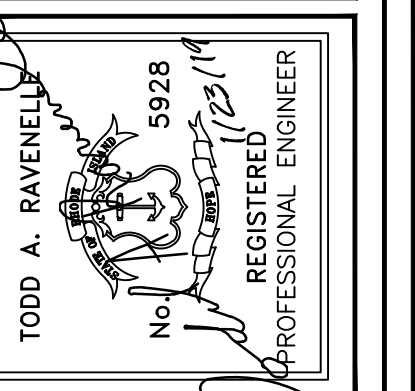
SECTION  
BETWEEN FENCE POSTS



SECTION  
AT FENCE POSTS

TYPICAL TURF CURB WITH  
INTEGRAL FENCE (TCF)  
SCALE: 1" = 1'-0"

PROJECT  
**MEADE STADIUM FIELD  
TURF PROJECT**  
KINGSTON, RHODE ISLAND



CLIENT  
**UNIVERSITY OF RHODE ISLAND**  
Gordon R. Archibald, Inc.  
Civil and Environmental Engineers  
Pawtucket, Rhode Island

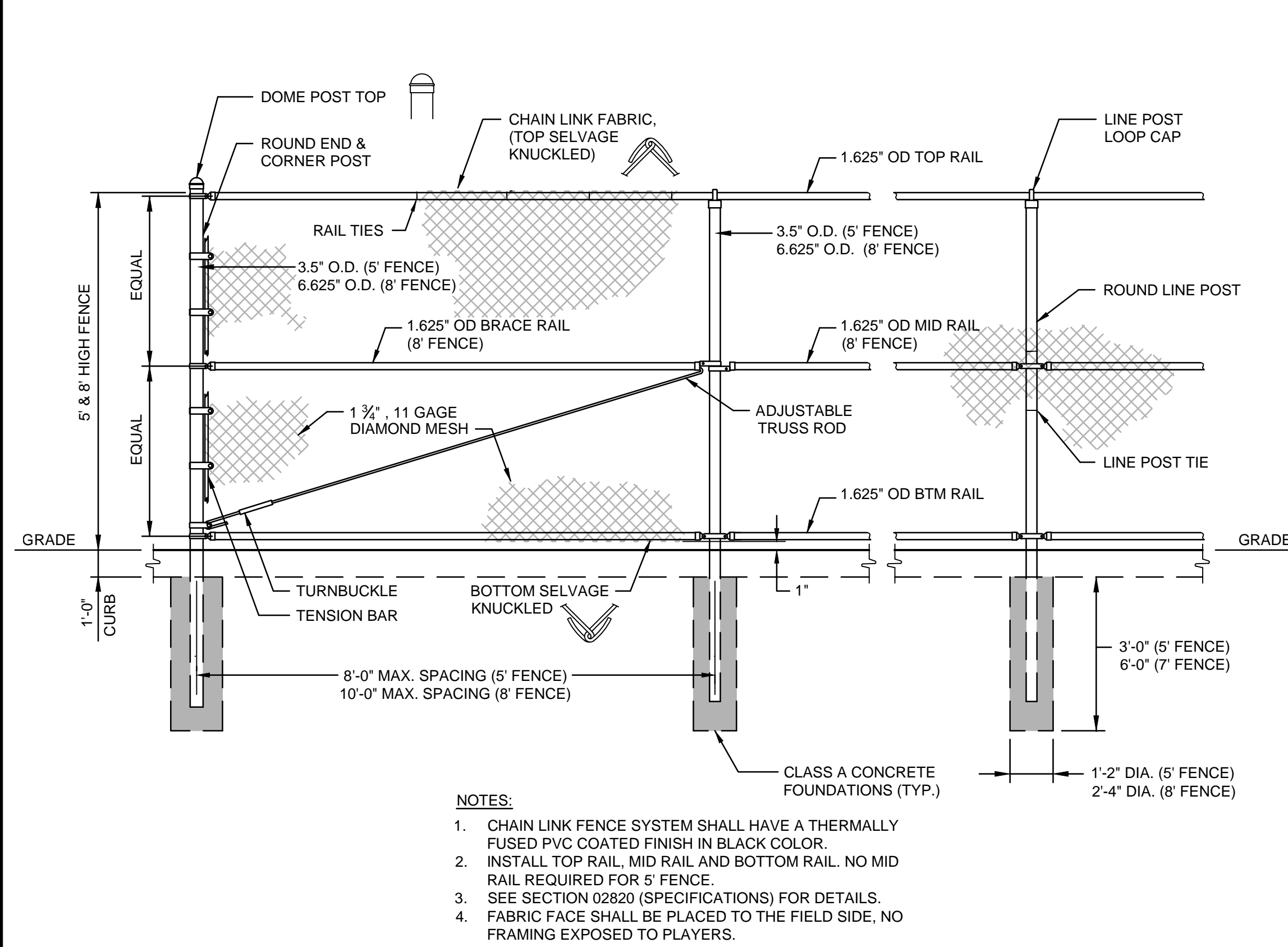
DRAWING TITLE  
**DETAILS - 1**

NO.	DATE	REVISIONS	BY

PROJECT NO.: 1857  
DATE: DECEMBER 2018  
SCALE: AS SHOWN  
DRAWN BY: TAP  
CHECKED BY: TAR

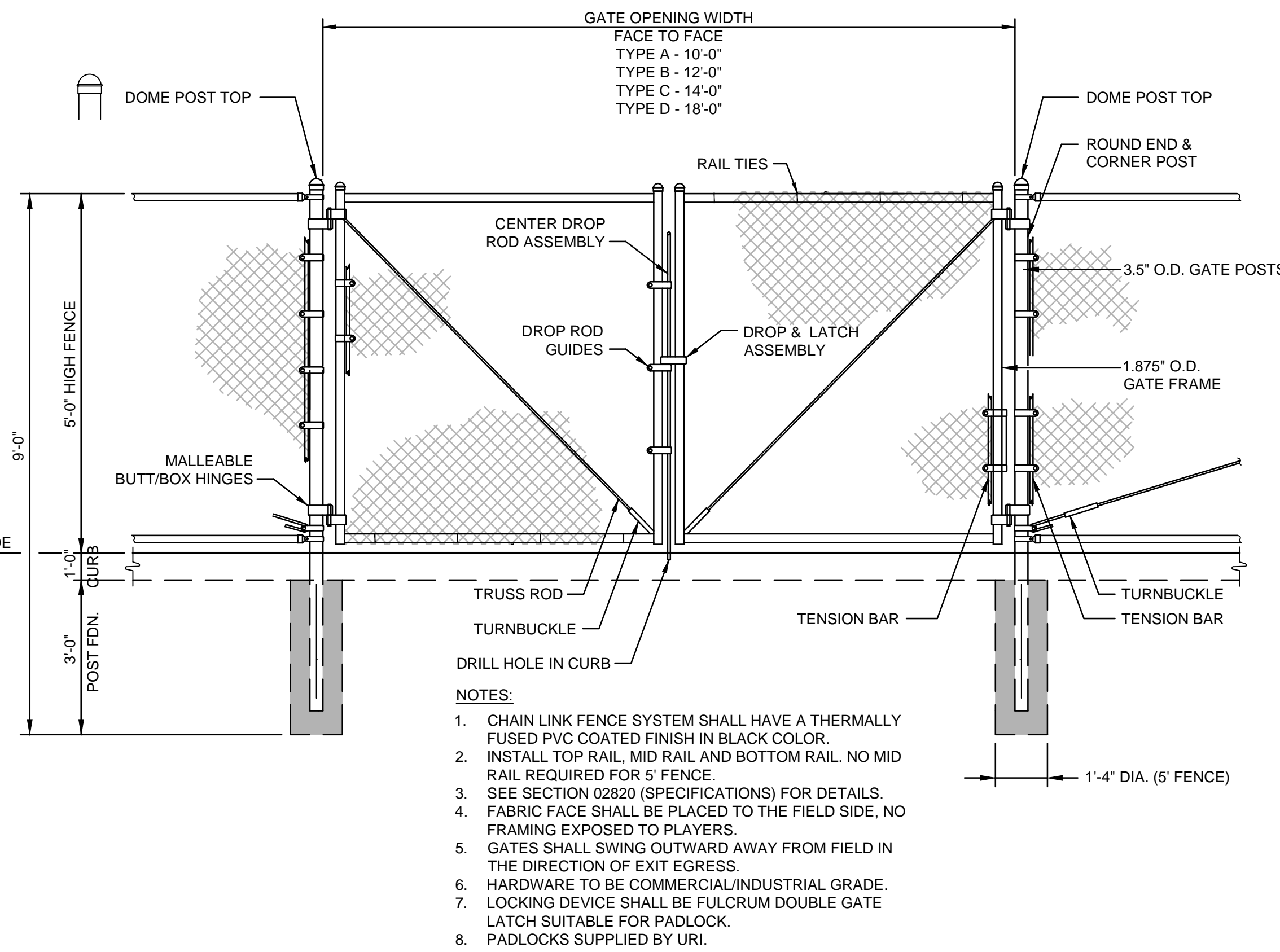
DRAWING NUMBER  
**6**  
SHEET 6 OF 15

F:\FILES\2018\PROJECT PLANS\1857\DETAILS\6.dwg 1/22/2019 11:28:41 AM USBCS



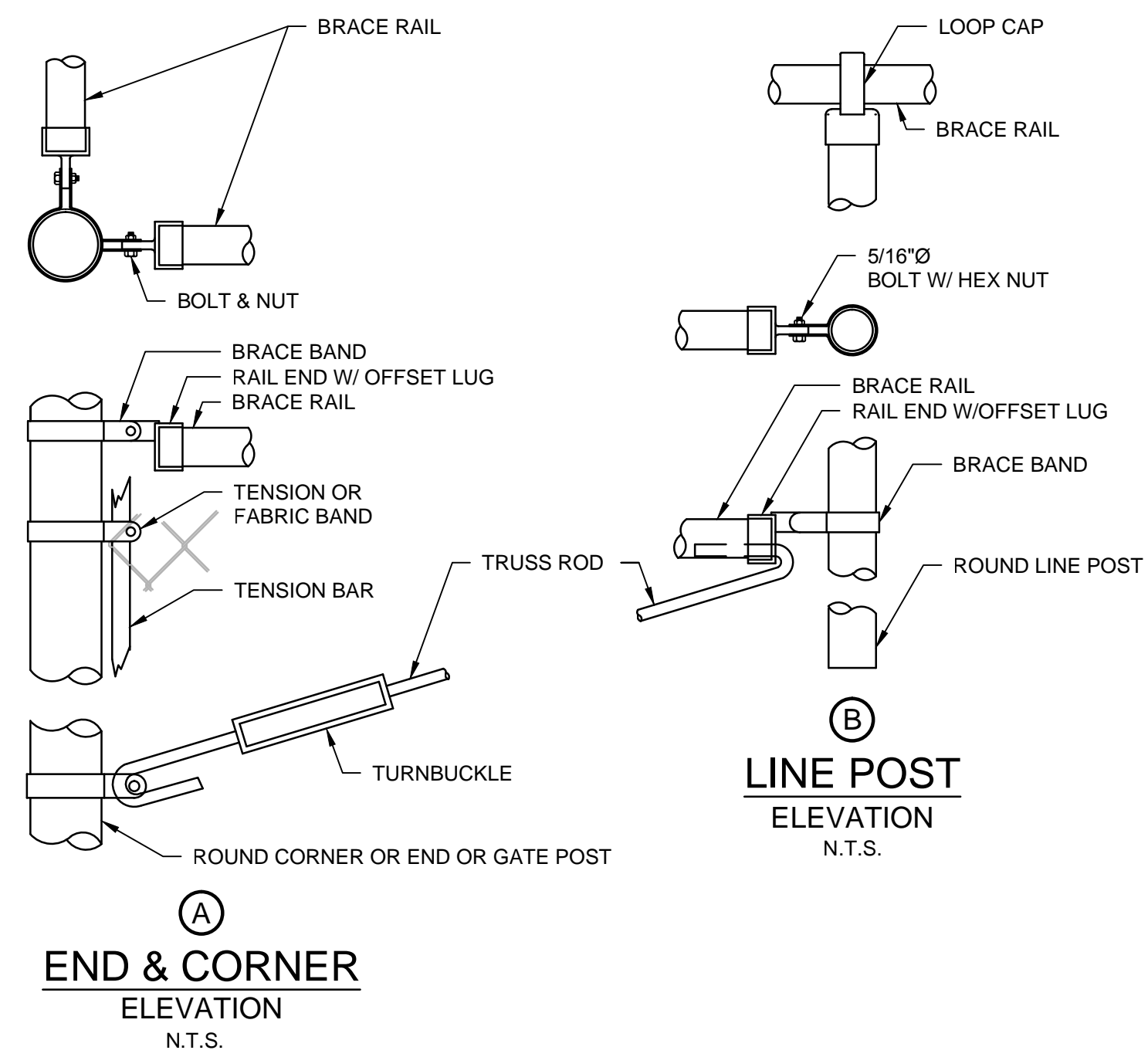
**FENCE SECTION ELEVATION**  
N.T.S.

- NOTES:**
- CHAIN LINK FENCE SYSTEM SHALL HAVE A THERMALLY FUSED PVC COATED FINISH IN BLACK COLOR.
  - INSTALL TOP RAIL, MID RAIL AND BOTTOM RAIL. NO MID RAIL REQUIRED FOR 5' FENCE.
  - SEE SECTION 02820 (SPECIFICATIONS) FOR DETAILS.
  - FABRIC FACE SHALL BE PLACED TO THE FIELD SIDE, NO FRAMING EXPOSED TO PLAYERS.

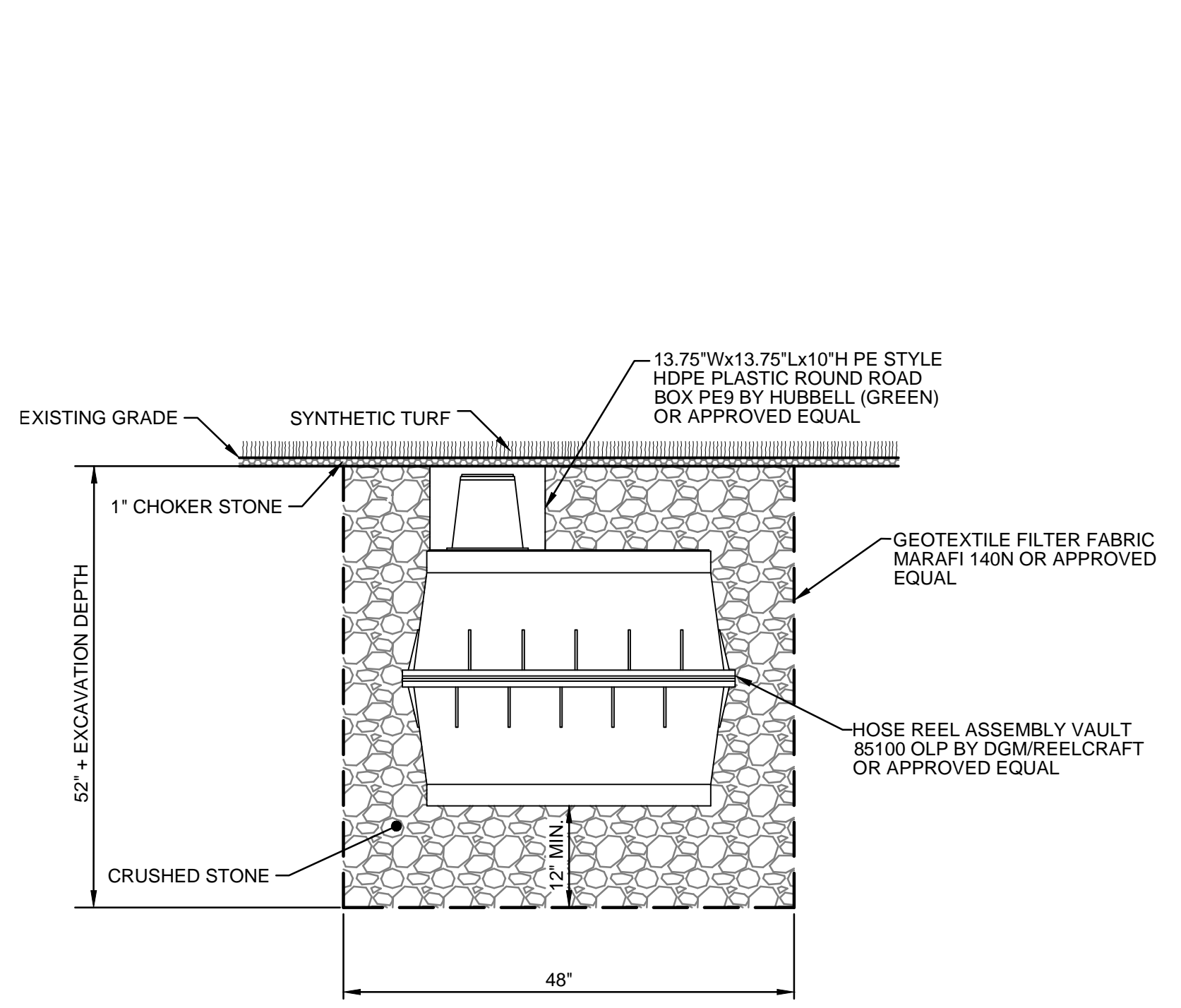


**FENCE DOUBLE SWING GATE ELEVATION**  
N.T.S.

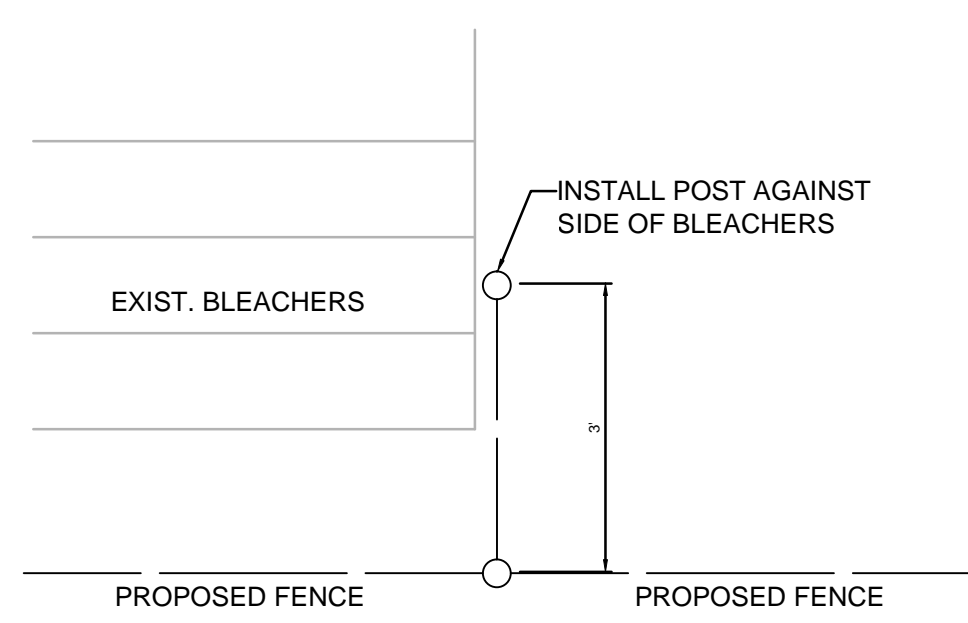
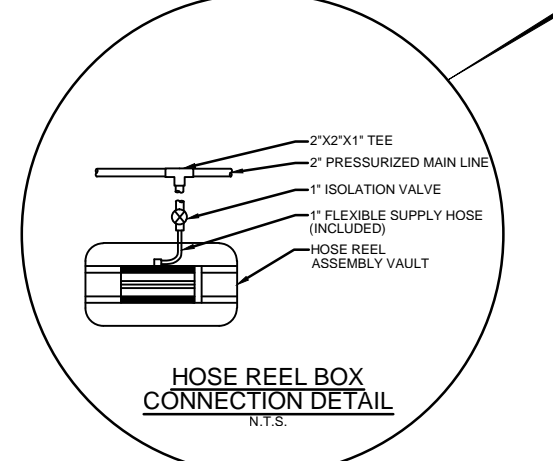
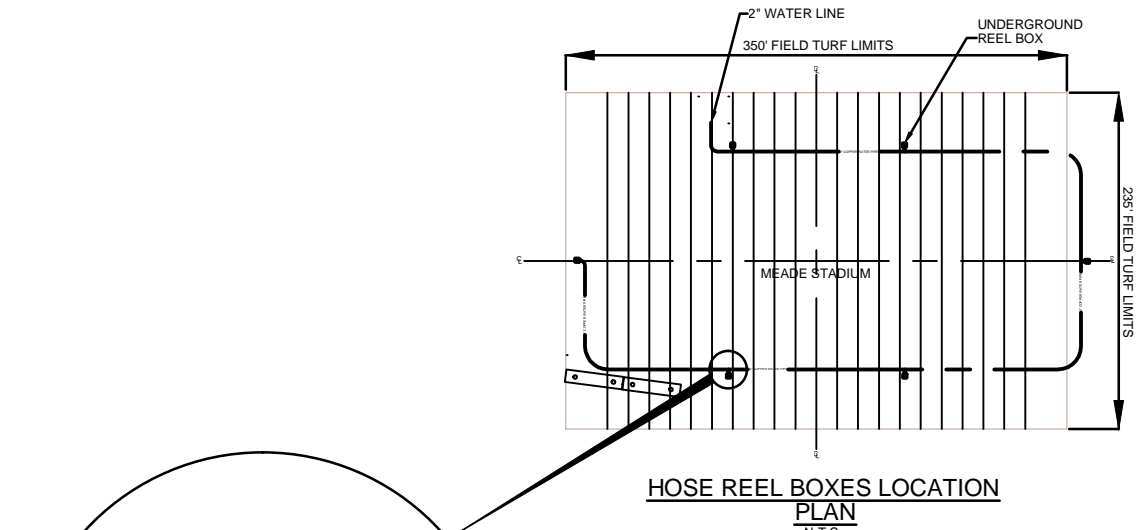
- NOTES:**
- CHAIN LINK FENCE SYSTEM SHALL HAVE A THERMALLY FUSED PVC COATED FINISH IN BLACK COLOR.
  - INSTALL TOP RAIL, MID RAIL AND BOTTOM RAIL. NO MID RAIL REQUIRED FOR 5' FENCE.
  - SEE SECTION 02820 (SPECIFICATIONS) FOR DETAILS.
  - FABRIC FACE SHALL BE PLACED TO THE FIELD SIDE, NO FRAMING EXPOSED TO PLAYERS.
  - GATES SHALL SWING OUTWARD AWAY FROM FIELD IN THE DIRECTION OF EXIT EGRESS.
  - HARDWARE TO BE COMMERCIAL/INDUSTRIAL GRADE.
  - LOCKING DEVICE SHALL BE FULCRUM DOUBLE GATE LATCH SUITABLE FOR PADLOCK.
  - PADLOCKS SUPPLIED BY URI.



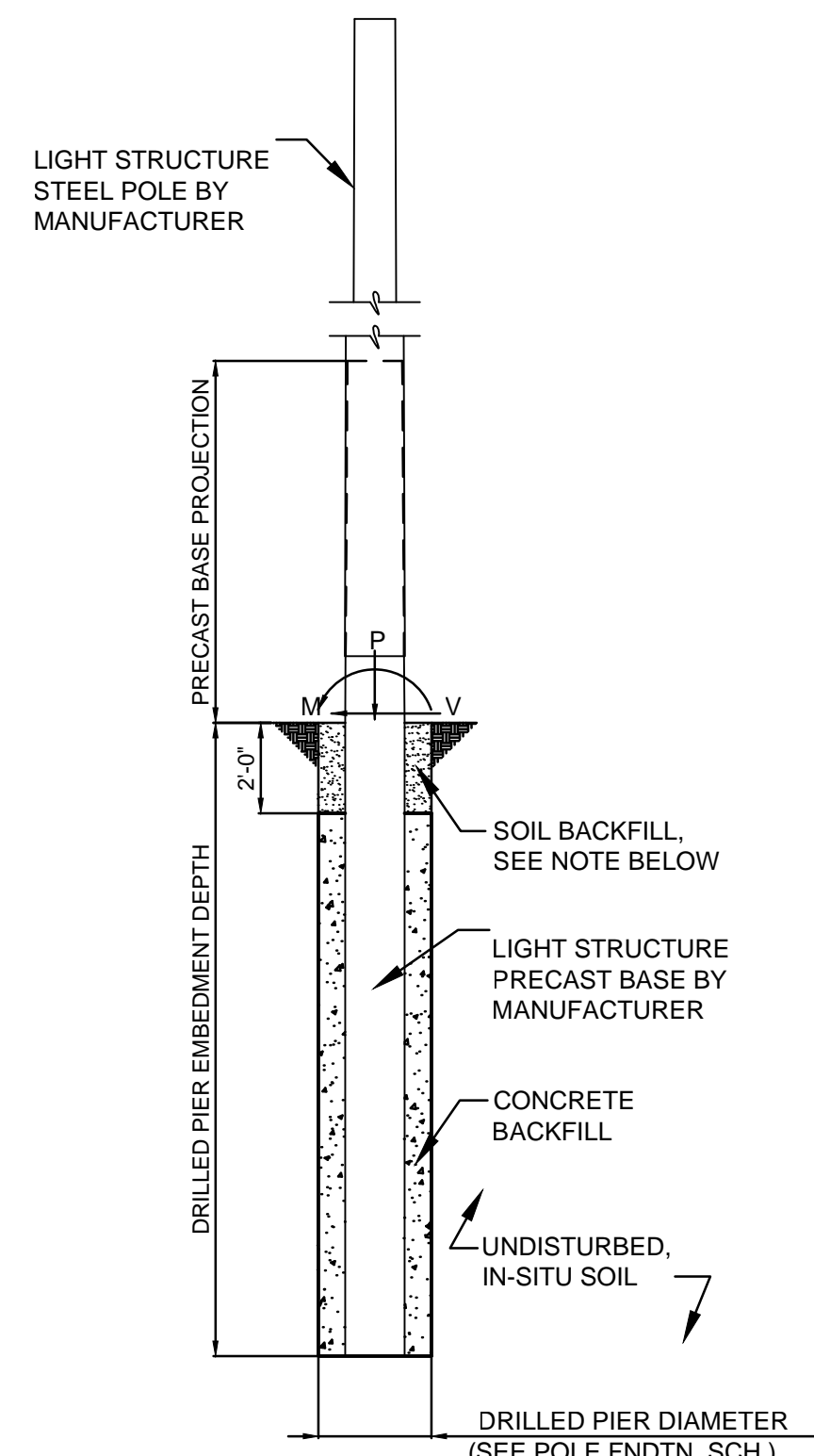
**END & CORNER ELEVATION**  
N.T.S.



**SECTION HOSE REEL ASSEMBLY AND ACCESS BOX DETAIL**  
N.T.S.



**FENCE AT BLEACHER DETAIL**  
SCALE: NOT TO SCALE



**POLE FOUNDATION ELEV.**  
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).

**LIGHT FOUNDATION DESIGN NOTES**

**DESIGN PARAMETERS:**  
WIND: VULT=140 MPH, VASD=108 MPH (EXPOSURE C, RISK CATEGORY II) PER INTERNATIONAL BUILDING CODE, 2012 EDITION (ASCE 7-10). DESIGN WIND PARAMETERS ARE NOTED. ACTUAL EXPOSURE MUST BE VERIFIED FOR THE SITE BY THE PROPER GOVERNING OFFICIAL.

**GEOTECHNICAL PARAMETERS:**  
ALLOWABLE END BEARING SOIL PRESSURE: 1,500 PSF  
ALLOWABLE LATERAL SOIL BEARING PRESSURE: 0 PSF/FT (GRADE TO -2'-0")  
VARIES. SEE SOIL BORING LOGS (BELOW -2'-0")  
IN ACCORDANCE WITH THE 2012 EDITION OF THE INTERNATIONAL BUILDING CODE, CHAPTER 18.

**DESIGN SOIL PARAMETERS ARE AS NOTED. ACTUAL ALLOWABLE SOIL PARAMETERS MUST BE VERIFIED ON SITE. REFERENCE SOIL BORING LOGS, PROJECT NO. 12080, PREPARED BY GEOLOGIC - EARTH EXPLORATION, INC., NORFOLK, MASS.**

A GEOTECHNICAL ENGINEER OR REPRESENTATIVE OF IS RECOMMENDED (NOT REQUIRED) TO BE AVAILABLE AT THE TIME OF THE FOUNDATION INSTALLATION TO VERIFY THE SOIL DESIGN PARAMETERS AND TO PROVIDE ASSISTANCE IF ANY PROBLEMS ARISE IN FOUNDATION INSTALLATION.

ENCOUNTERING SOIL FORMATIONS THAT WILL REQUIRE SPECIAL DESIGN CONSIDERATIONS OR EXCAVATION PROCEDURES MAY OCCUR. POLE FOUNDATIONS WILL NEED TO BE ANALYZED ACCORDING TO THE SOIL CONDITIONS THAT EXIST. IF ANY DISCREPANCIES OR INCONSISTENCIES ARISE, NOTIFY THE ENGINEER OF SUCH DISCREPANCIES. FOUNDATIONS WILL THEN BE REVISED ACCORDINGLY. REVISIONS WILL BE ANALYZED PER RECOMMENDATIONS DIRECTED BY A REGISTERED ENGINEER.

ALL EXCAVATIONS MUST BE FREE OF LOOSE SOIL AND DEBRIS PRIOR TO FOUNDATION INSTALLATION AND CONCRETE BACKFILL PLACEMENT. TEMPORARY CASINGS OR DRILLERS SLURRY MAY BE USED TO STABILIZE THE EXCAVATION DURING INSTALLATION. CASINGS MUST BE REMOVED DURING CONCRETE BACKFILL PLACEMENT. CONCRETE BACKFILL MUST BE PLACED WITH A TREMIE WHEN SLURRY OR WATER IS PRESENT WITHIN THE EXCAVATION OR WHEN THE FREE DROP EXCEEDS 6'-0".

CONTRACTOR MUST BE FAMILIAR WITH THE COMPLETE SOIL INVESTIGATION REPORT AND BORINGS, AND CONTACT THE GEOTECHNICAL FIRM (IF NECESSARY) TO UNDERSTAND THE SOIL CONDITIONS AND THE POSSIBILITY OF GROUND WATER PUMPING AND EXCAVATION STABILIZATION OR BRACING DURING PRECAST BASE INSTALLATION AND PLACEMENT OF CONCRETE BACKFILL.

**CONCRETE:**  
CONCRETE SHALL BE AIR-ENTRAINED AND HAVE A MINIMUM COMPRESSIVE DESIGN STRENGTH AT 28 DAYS OF 3,000 PSI. 3,000 PSI CONCRETE SPECIFIED FOR EARLY POLE ERECTION, ACTUAL REQUIRED MINIMUM ALLOWABLE CONCRETE STRENGTH IS 1,000 PSI. ALL PIERS AND CONCRETE BACKFILL MUST BEAR ON AND AGAINST FIRM UNDISTURBED SOIL.

**GENERAL NOTES:**  
FIXTURES MUST BE LOCATED TO MAINTAIN 10'-0" MINIMUM HORIZONTAL CLEARANCE FROM ANY OBSTRUCTION. ENGINEER MUST BE NOTIFIED IF FOUNDATIONS ARE NEAR ANY RETAINING WALLS OR WITHIN/NEAR ANY SLOPES STEEPER THAN 3H - 1V. POLES, FIXTURES, PRECAST BASES, ELECTRICAL ITEMS AND INSTALLATION PER MUSCO LIGHTING.

THE GROUNDWATER TABLE SHALL BE ASSUMED AT 6' BELOW EXISTING GRADE.

**PROJECT**  
MEADE STADIUM FIELD TURF PROJECT  
KINGSTON, RHODE ISLAND

**CLIENT**  
UNIVERSITY OF RHODE ISLAND

**DRAWING TITLE**  
DETAILS - 2

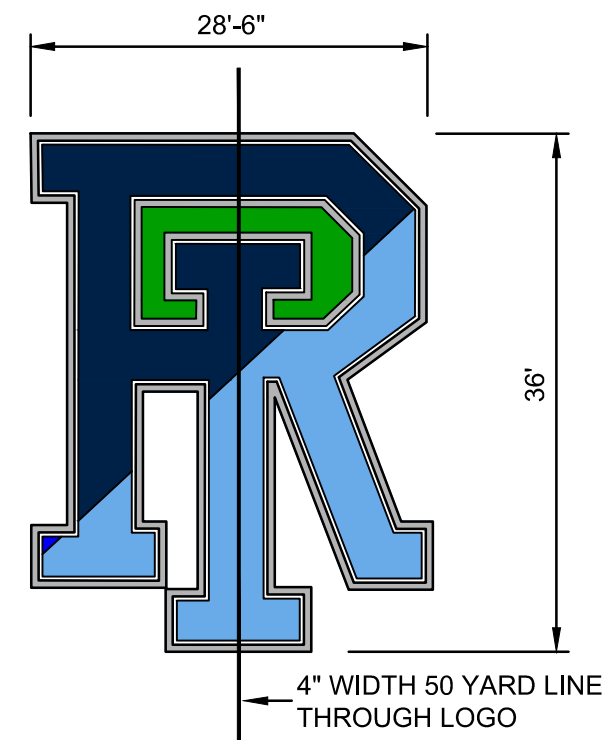
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**DATE:** DECEMBER 2018  
**SCALE:** AS SHOWN  
**DRAWN BY:** TAP  
**CHECKED BY:** TAR

**DRAWING NUMBER**  
7  
SHEET 7 OF 15

**REGISTERED PROFESSIONAL ENGINEER**  
TODD A. RAVENHILL  
No. 5928  
Gordon R. Archibald, Inc.  
Civil and Environmental Engineers  
Pawtucket, Rhode Island

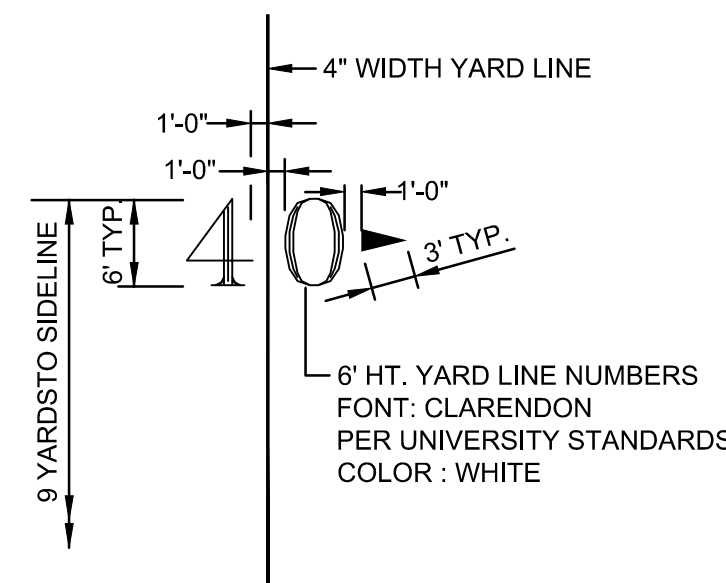




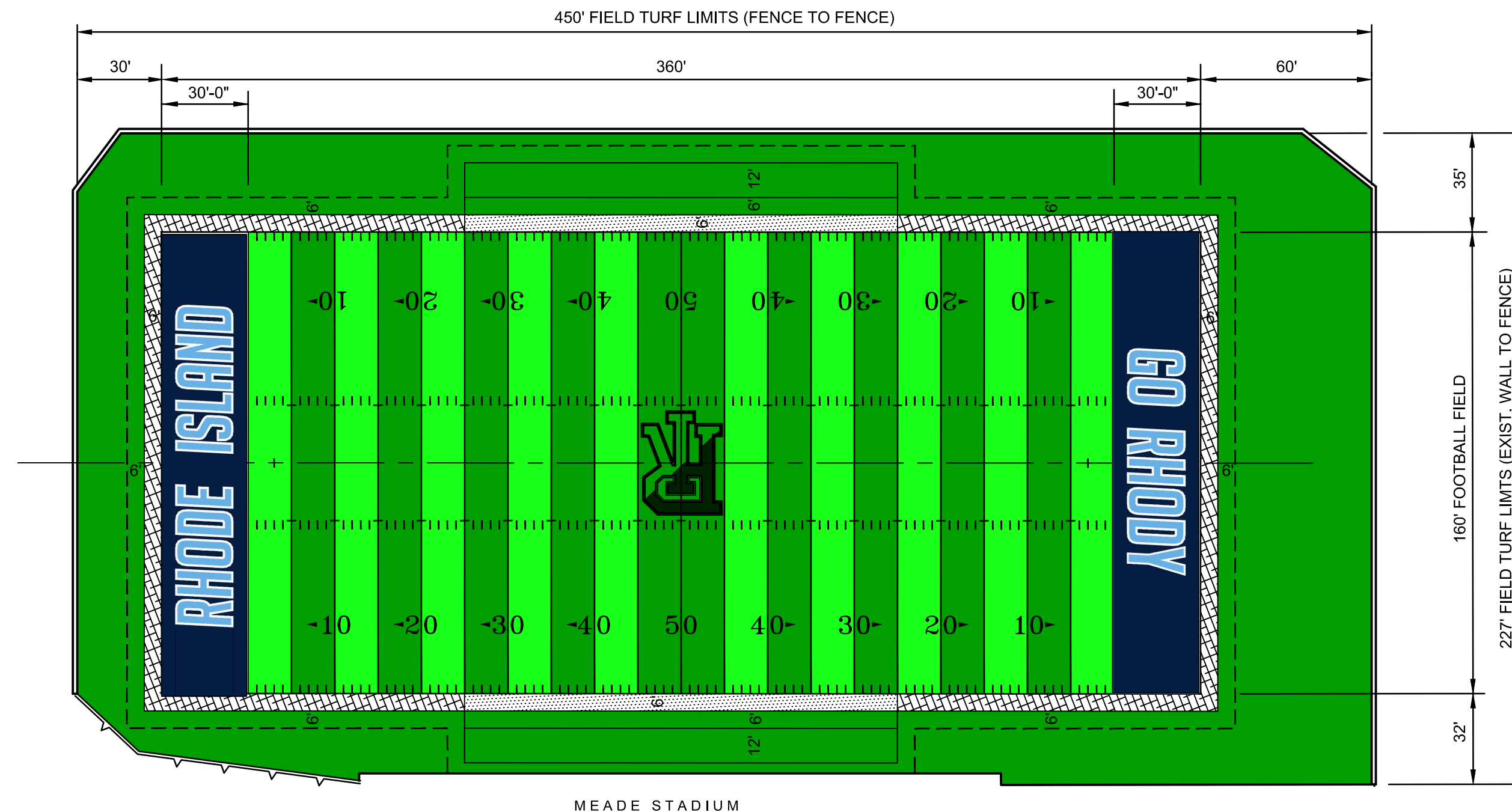
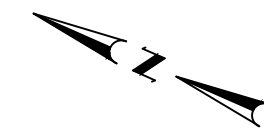


**LOGO DETAIL**  
NOT TO SCALE

- Ⓓ COLOR NAME: DARK BLUE  
PANTONE NUMBER: 282C
- Ⓔ COLOR NAME: WHITE  
PANTONE NUMBER: WHITE
- Ⓒ COLOR NAME: LIGHT BLUE  
PANTONE NUMBER: 292C



**YARD LINE NUMBER DETAIL**  
NOT TO SCALE



MEADE STADIUM

- Ⓐ DARK GREEN FIELD TURF
- Ⓑ LIGHT GREEN FIELD TURF
- Ⓒ COLOR NAME: LIGHT BLUE  
PANTONE NUMBER: 292C
- Ⓔ COLOR NAME: WHITE  
PANTONE NUMBER: WHITE

**FIELD DETAIL**  
NOT TO SCALE



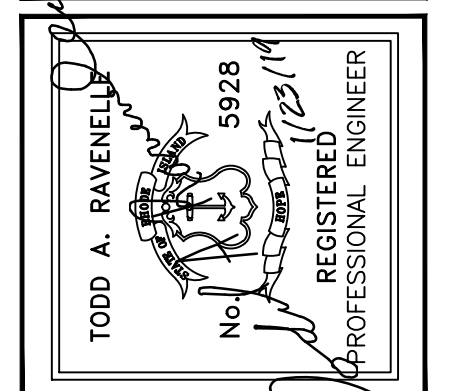
**END ZONE DETAILS**  
NOT TO SCALE

- Ⓓ COLOR NAME: DARK BLUE  
PANTONE NUMBER: 282C
- Ⓔ COLOR NAME: WHITE  
PANTONE NUMBER: WHITE
- Ⓒ COLOR NAME: LIGHT BLUE  
PANTONE NUMBER: 292C

20' HT. END ZONE TEXT  
FONT: AS SHOWN  
PER UNIVERSITY STANDARDS

PROJECT

MEADE STADIUM FIELD  
TURF PROJECT  
KINGSTON, RHODE ISLAND



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Civil and Environmental Engineers  
Pawtucket, Rhode Island

DRAWING TITLE  
DETAILS - 4

NO.	DATE	REVISIONS	BY

PROJECT NO.: 1857

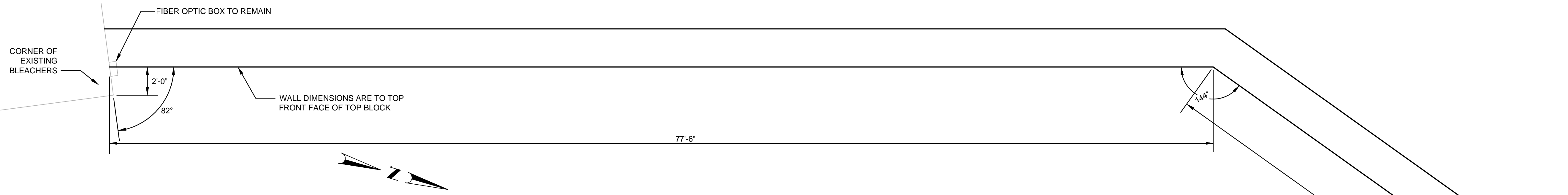
DATE: DECEMBER 2018

SCALE: AS SHOWN

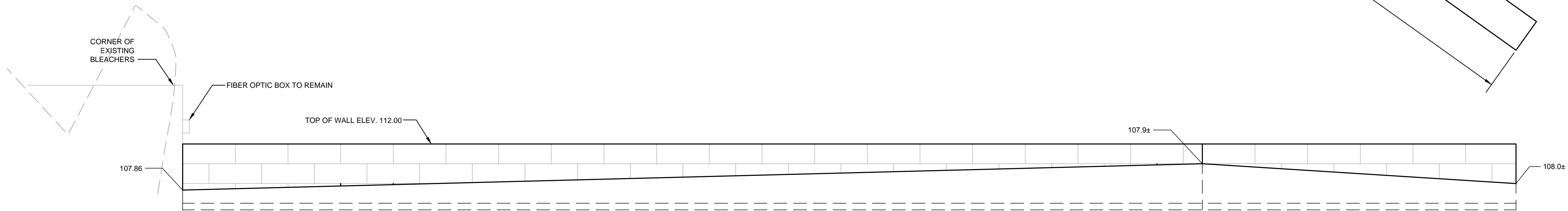
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CHECKED BY: TAR

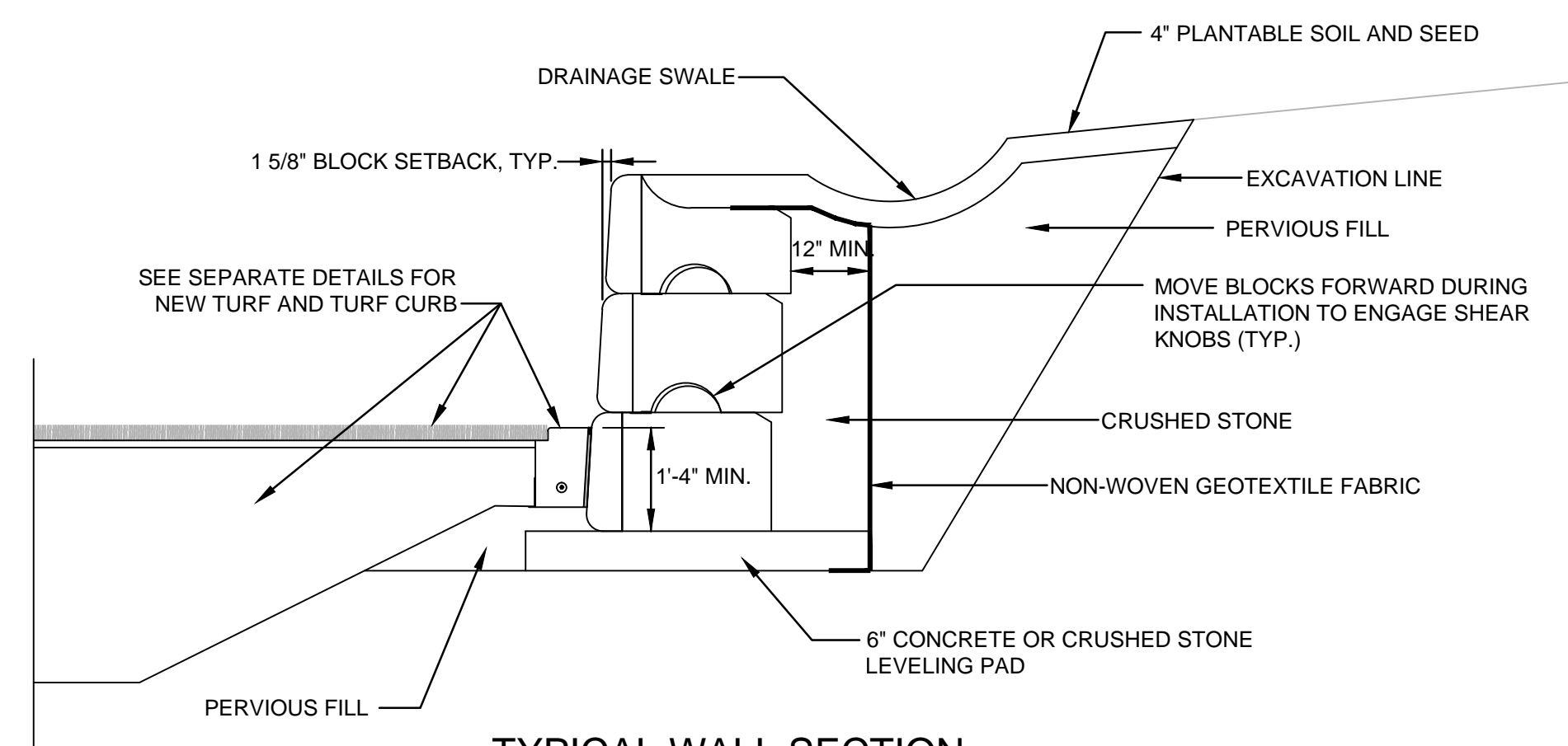
DRAWING NUMBER  
**9**  
SHEET 9 OF 15



**WALL PLAN**  
SCALE: 1/4" = 1'-0"



**WALL ELEVATION**  
SCALE: 1/4" = 1'-0"

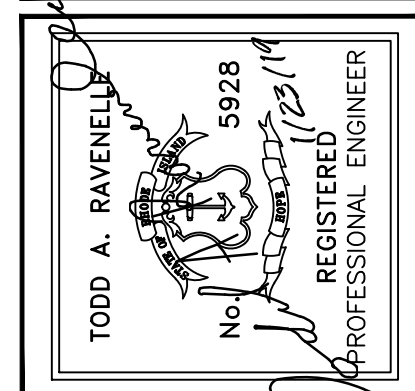


**TYPICAL WALL SECTION**  
SCALE: 1 1/2" = 1'-0"

**NOTES:**

1. WALL IS AT WEST END OF NORTH ENDZONE.
2. WALL SHALL BE A MODULAR BLOCK WALL CONFORMING TO ASTM C-1776 BY REDI-ROCK OR APPROVED EQUAL.
3. WALL DESIGN SHALL BE BY REDI-ROCK AND SHALL ASSUME A SURCHARGE LOAD OF 250 PSF BEHIND THE WALL AND SHALL BE BASED ON A SOIL PHI ANGLE OF 28 DEGREES AND A BEARING CAPACITY OF 2000 PSF.
4. FORMLINER FOR FACE OF EXPOSED BLOCKS SHALL BE "KINGSTONE".
5. GEOGRID REINFORCING REQUIREMENT SHALL BE DETERMINED BY REDI-ROCK.
6. ALL MATERIALS AND INSTALLATION SHALL CONFORM TO REDI-ROCK RECOMENDATIONS.

PROJECT  
**MEADE STADIUM FIELD  
TURF PROJECT**  
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Pawtucket, Rhode Island

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**DETAILS - 5**

NO.	DATE	REVISIONS	BY

PROJECT NO.: 1857

DATE: DECEMBER 2018

SCALE: AS SHOWN

DRAWN BY: TAP

CHECKED BY: TAR

DRAWING NUMBER  
**10**  
SHEET 10 OF 15

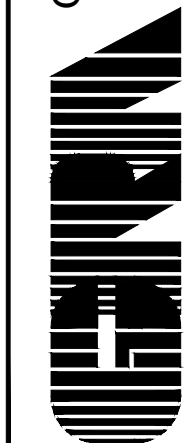




PROJECT  
**MEADE STADIUM FIELD  
 TURF PROJECT**  
 KINGSTON, RHODE ISLAND

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 Civil and Environmental Engineers  
 Pawtucket, Rhode Island



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**DETAILS**

NO.	DATE	REVISIONS	BY

PROJECT NO.: 1857

DATE: JANUARY 22, 2019

SCALE: AS NOTED

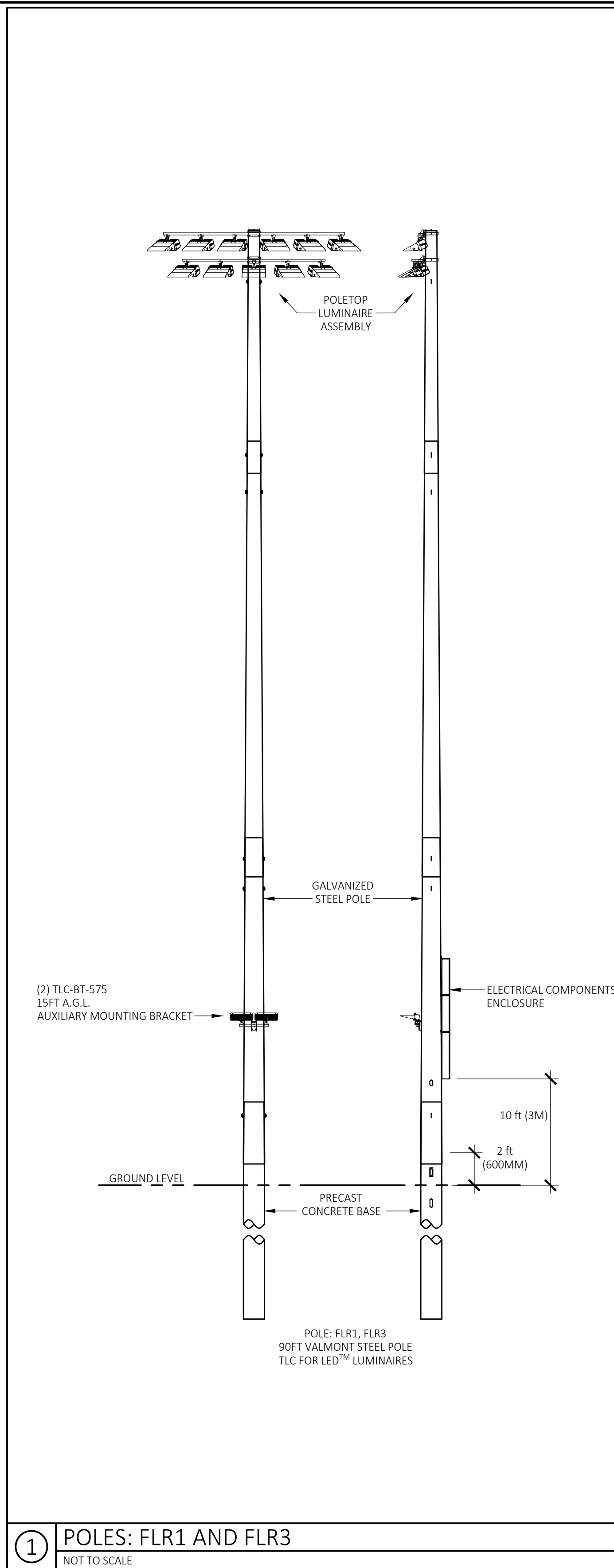
DRAWN BY: D.D.

CHECKED BY: S.H.

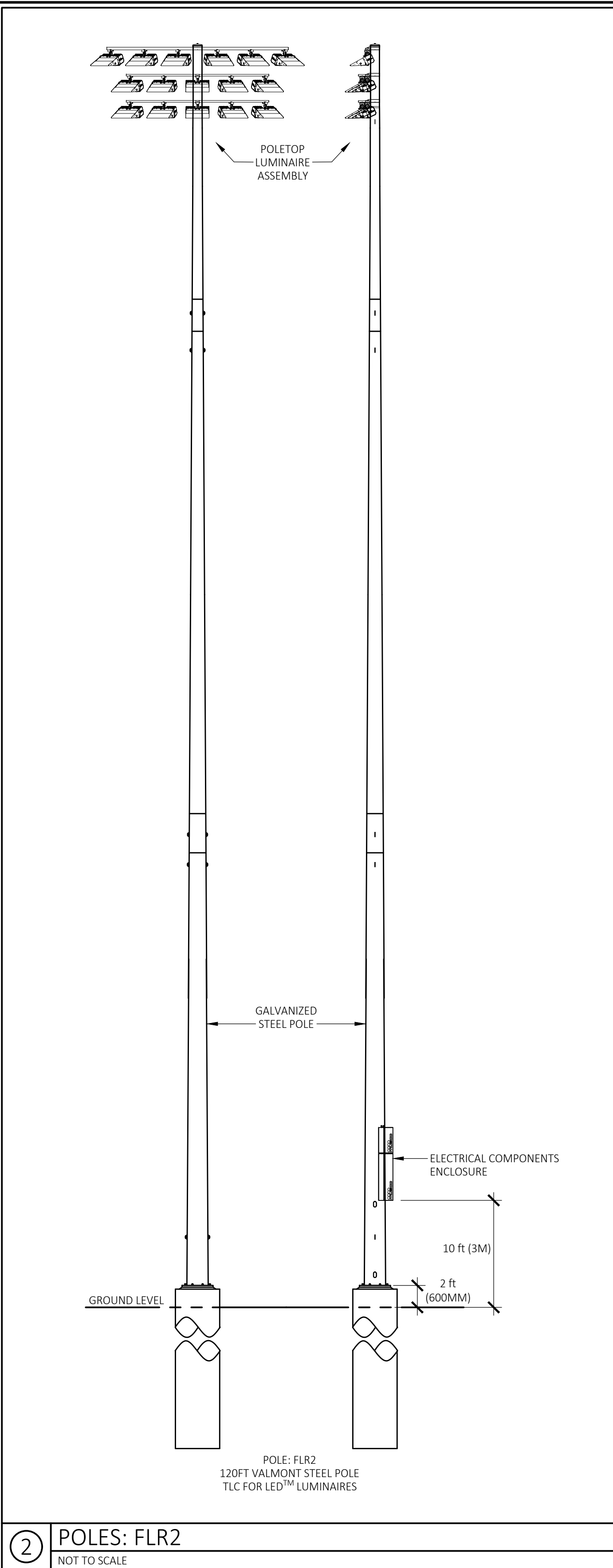
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**E2.0**

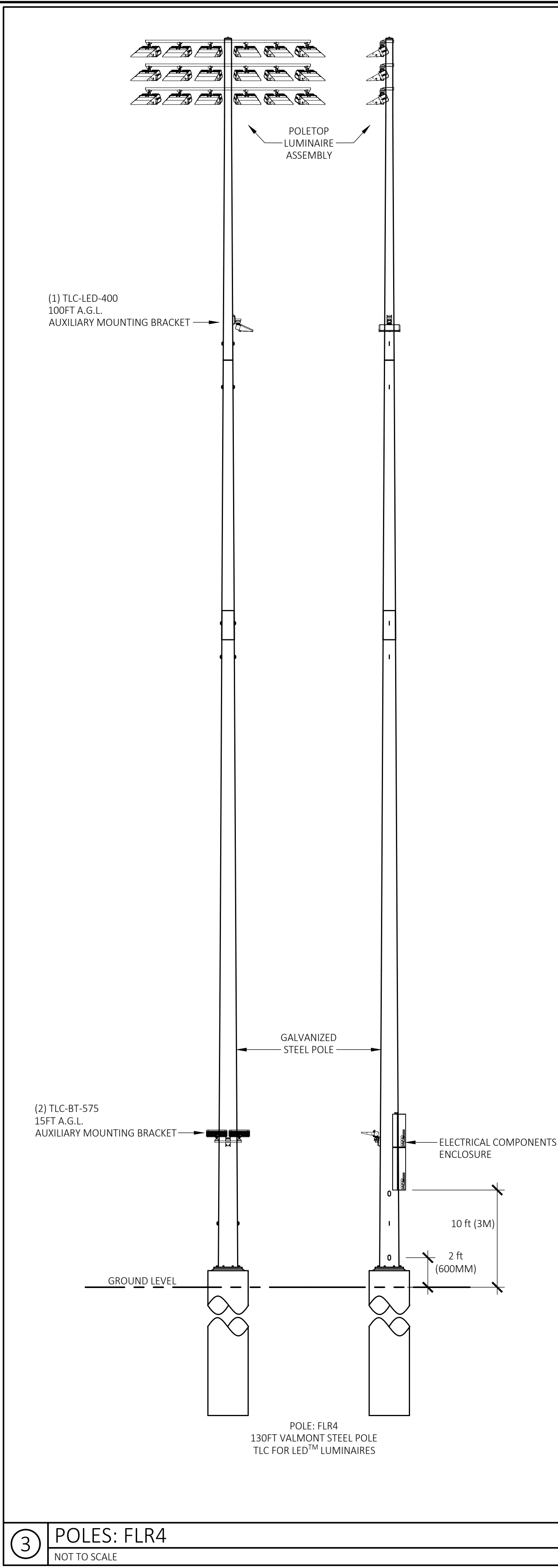
SHEET 14 OF 15



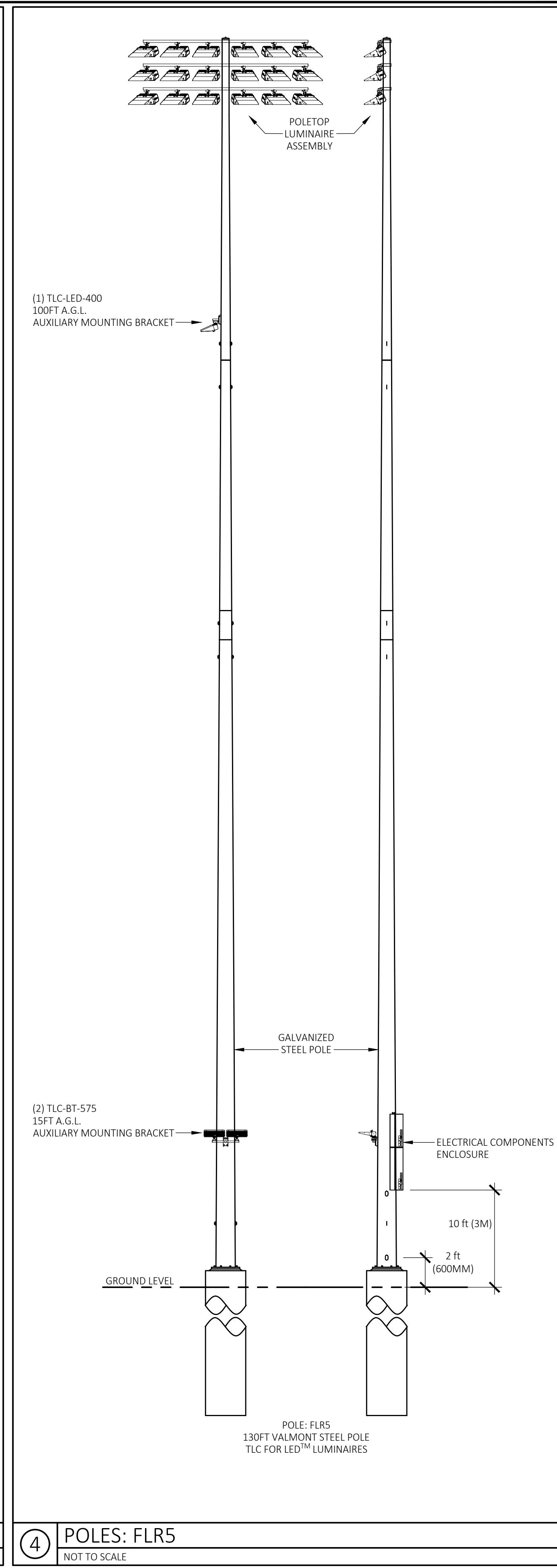
① POLES: FLR1 AND FLR3  
 NOT TO SCALE



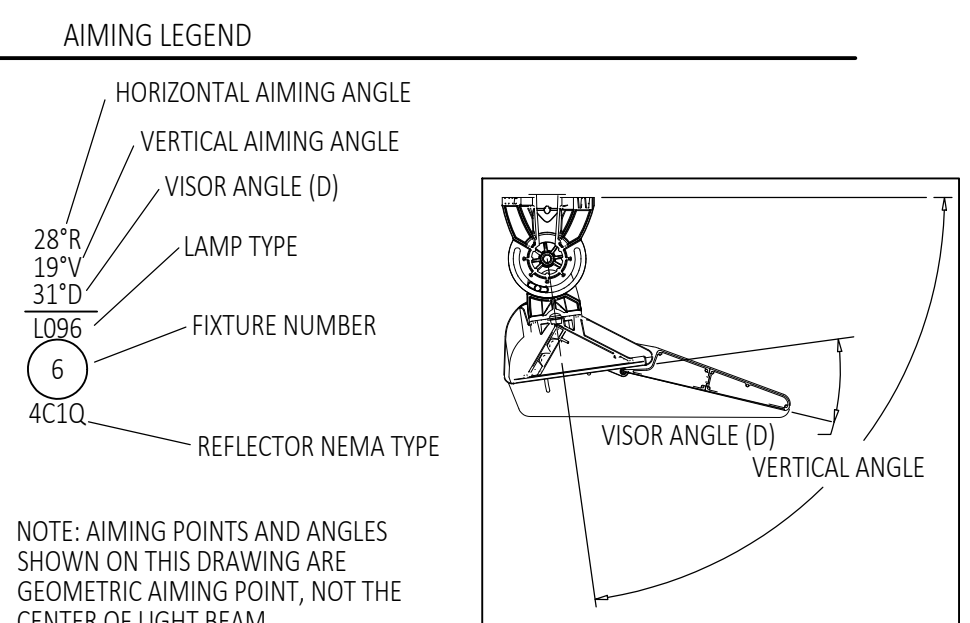
② POLES: FLR2  
 NOT TO SCALE



③ POLES: FLR4  
 NOT TO SCALE



④ POLES: FLR5  
 NOT TO SCALE



### CIRCUIT SUMMARY BY ZONE

POLE	CIRCUIT DESCRIPTION	# OF FIXTURES	# OF DRIVERS	*FULL LOAD AMPS	CONTACTOR SIZE (AMPS)	CONTACTOR ID	ZONE
FLR1	FOOTBALL	11	11	20.5	30	C1	1
FLR2	FOOTBALL	16	16	28.2	30	C2	1
FLR3	FOOTBALL	11	11	20.5	30	C3	1
FLR4	FOOTBALL	18	18	30.8	60	C4	1
FLR5	FOOTBALL	18	18	30.8	60	C5	1
FLR1	BALL TRACKERS	3	3	2.5	30	C6	2
FLR3	BALL TRACKERS	3	3	2.5	30	C7	2
FLR4	BALL TRACKERS	3	3	2.5	30	C8	2
FLR5	BALL TRACKERS	3	3	2.5	30	C9	2
FLR4	BLEACHERS	1	1	0.9	30	C10	3
FLR5	BLEACHERS	1	1	0.9	30	C11	3

\*FULL LOAD AMPS BASED ON AMPS PER DRIVER

WIND DESIGN CRITERIA: IBC STD 2012 130MPH EXPOSURE C

### LIGHTING EQUIPMENT

APPROXIMATE FOOTCANDLE LEVEL:		75FC	DESIGN ID:	184414H-PROD	DATED:	21/JAN/19
MAX. TO MIN. RATIO NOT TO EXCEED:		2:1	ORDER NUMBER:		400230	
POLE				LUMINAIRES		ELECTRICAL LOAD
POLE QUANTITY	POLE LOCATION	MOUNTING HEIGHT	POLE HEIGHT	LUMINAIRE TYPE	LUMINAIRES PER POLE	KILOWATT CONSUMPTION PER POLE
1	FLR4	15'	130'	TLC-BT-575	3	1.73
		87'		TLC-LED-1150	18	20.70
1	FLR5	15'	130'	TLC-BT-575	3	1.73
		87'		TLC-LED-1150	18	20.70
1	FLR1	15'	90'	TLC-BT-575	3	1.73
		90'		TLC-LED-1150	11	12.65
1	FLR2	-	120'	-	-	-
		120'		TLC-LED-1150	16	18.40
1	FLR3	15'	90'	TLC-BT-575	3	1.73
		90'		TLC-LED-1150	11	12.65

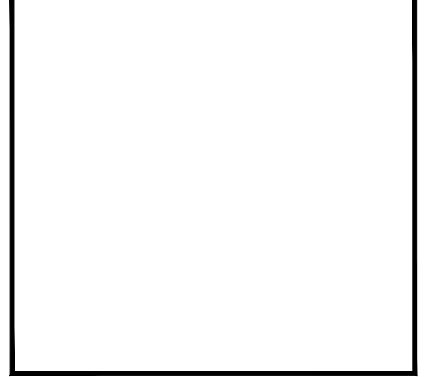
### PANEL SUMMARY

CABINET #	CONTROL MODULE LOCATION	CONTACTOR ID	CIRCUIT DESCRIPTION	FULL LOAD AMPS	DISTRIBUTION PANEL	CIRCUIT BREAKER POSITION
1	--	C1	POLE FLR1	20.51	-	-
1	--	C2	POLE FLR2	28.20	-	-
1	--	C3	POLE FLR3	20.51	-	-
1	--	C4	POLE FLR4	30.76	-	-
1	--	C5	POLE FLR5	30.76	-	-
1	--	C6	POLE FLR1	2.51	-	-
1	--	C7	POLE FLR3	2.51	-	-
1	--	C8	POLE FLR4	2.51	-	-
1	--	C9	POLE FLR5	2.51	-	-
1	--	C10	POLE FLR4	0.87	-	-
1	--	C11	POLE FLR5	0.87	-	-

### ZONE SCHEDULE

ZONE	SELECTOR SWITCH	MULTI-WATT SWITCH	ZONE DESCRIPTION	CIRCUIT DESCRIPTION	
				POLE ID	CONTACTOR ID
ZONE 1	1	1	FOOTBALL	POLE FLR1	C1
				POLE FLR2	C2
				POLE FLR3	C3
				POLE FLR4	C4
				POLE FLR5	C5
ZONE 2	2		BALL TRACKERS	POLE FLR1	C6
				POLE FLR3	C7
				POLE FLR4	C8
				POLE FLR5	C9
ZONE 3	3		BLEACHERS	POLE FLR4	C10
				POLE FLR5	C11

PROJECT  
**MEADE STADIUM FIELD  
 TURF PROJECT**  
 KINGSTON, RHODE ISLAND



CLIENT  
**UNIVERSITY OF RHODE ISLAND**

BY  
 REVISIONS  
 NO. DATE

Gordon R. Archibald, Inc.  
 Civil and Environmental Engineers  
 Pawtucket, Rhode Island

DRAWING TITLE  
**DETAILS**

PROJECT NO.: 1857

DATE: JANUARY 22, 2019

SCALE: AS NOTED

DRAWN BY: D.D.

CHECKED BY: S.H.

DRAWING NUMBER

**E2.1**

SHEET 14 OF 15

NO.	DATE	REVISIONS	BY

PROJECT NO.: 1857

DATE: JANUARY 22, 2019

SCALE: AS NOTED

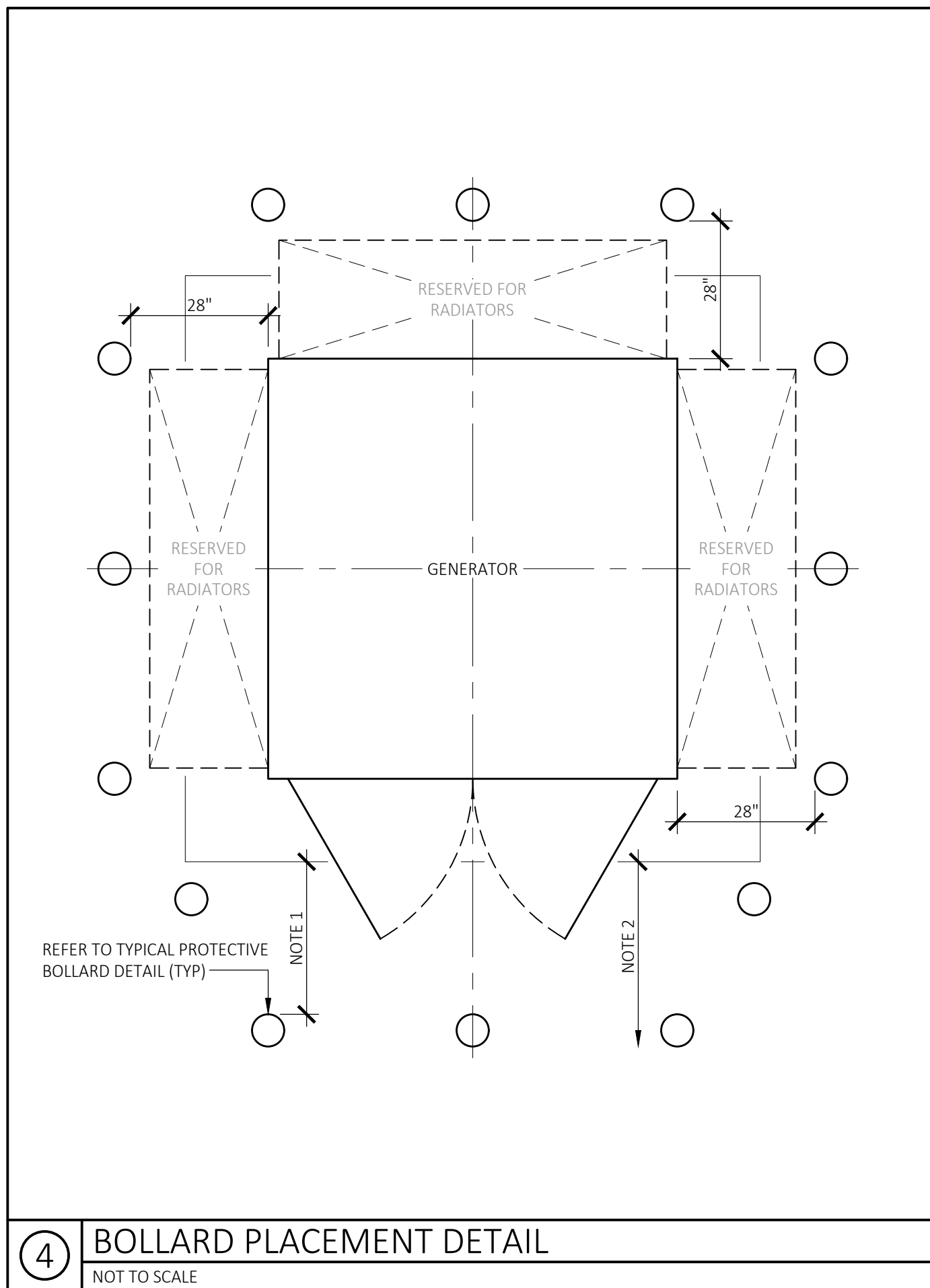
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CHECKED BY: S.H.

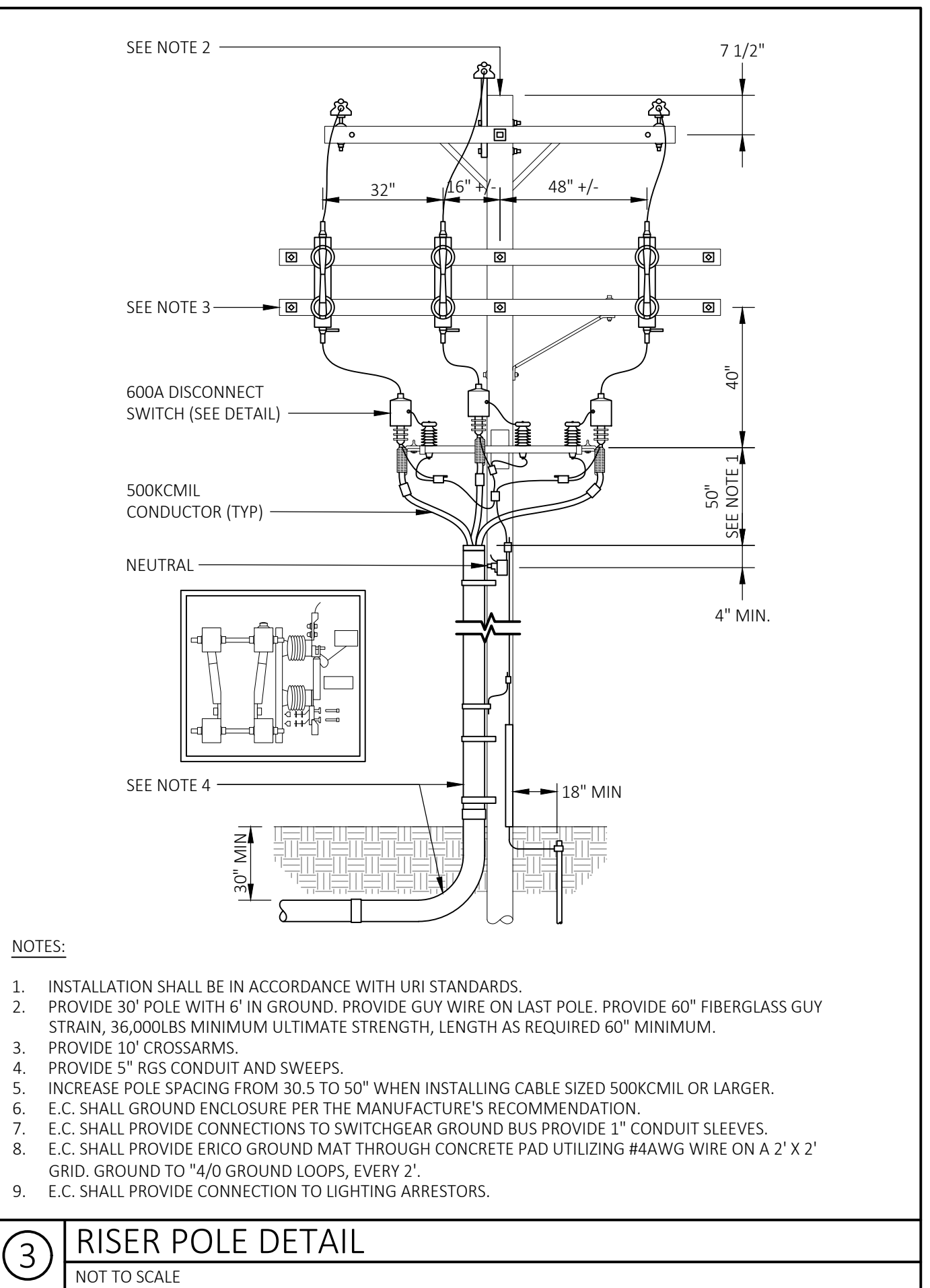
DRAWING NUMBER

**E2.2**

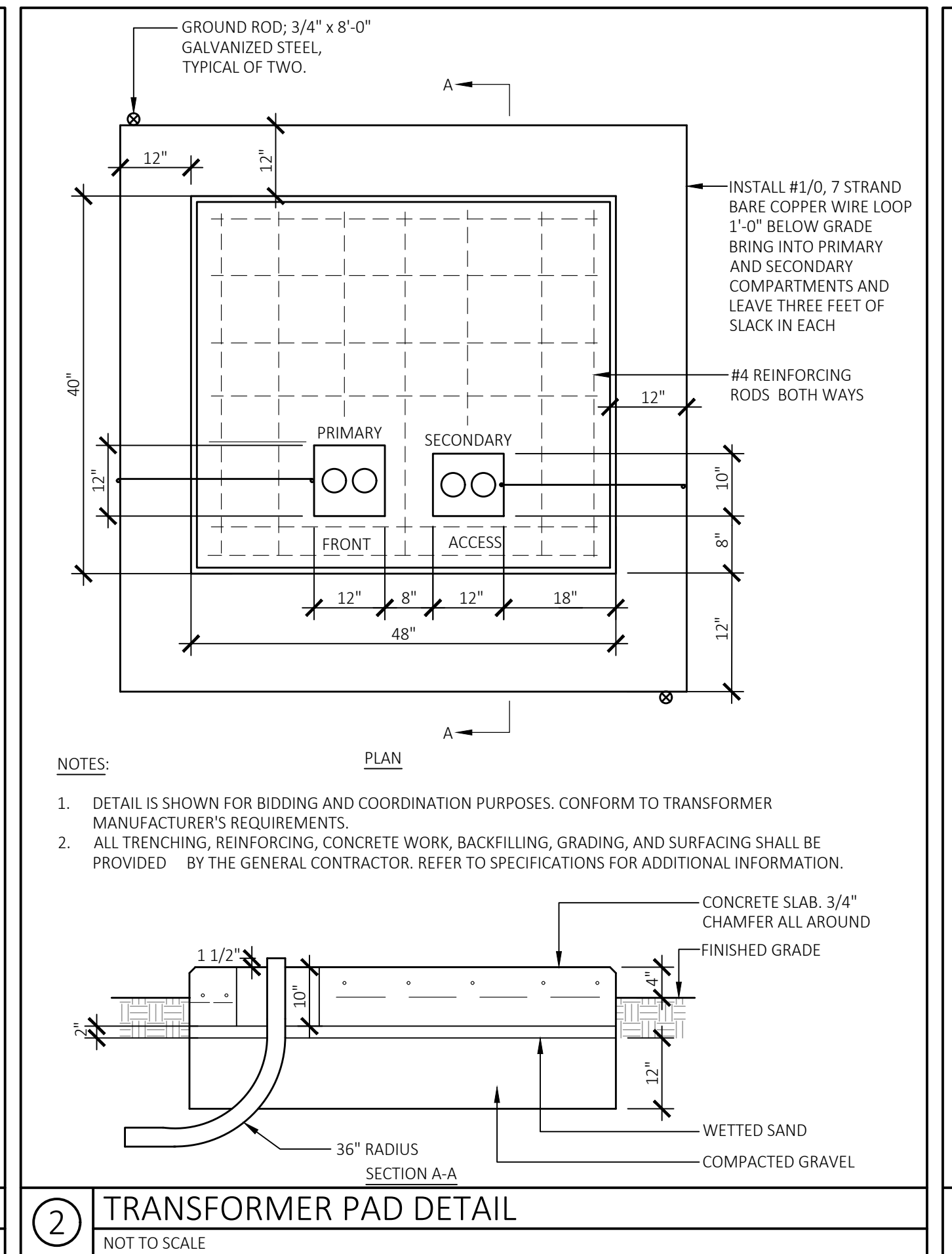
SHEET 15 OF 15



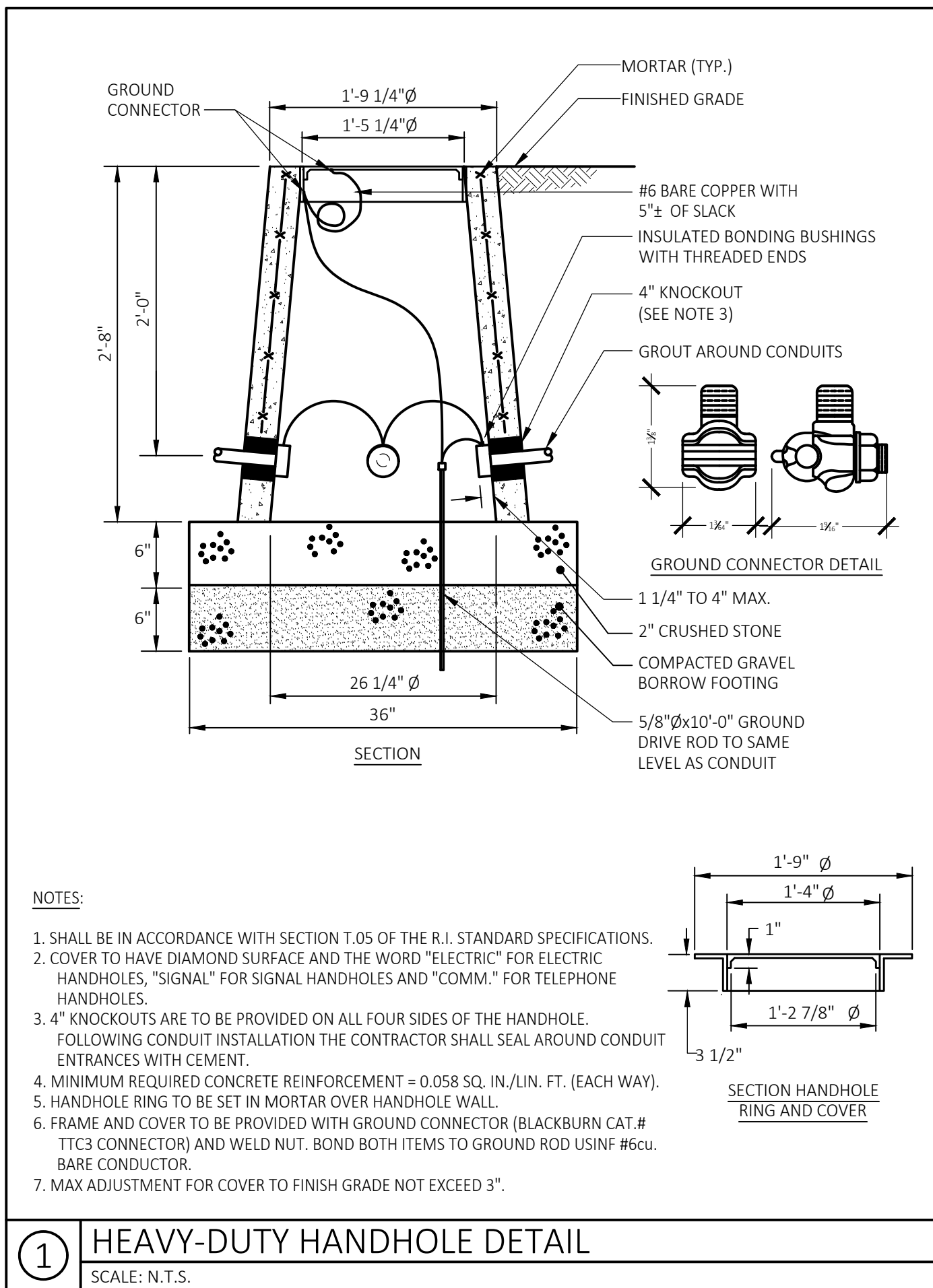
④ BOLLARD PLACEMENT DETAIL  
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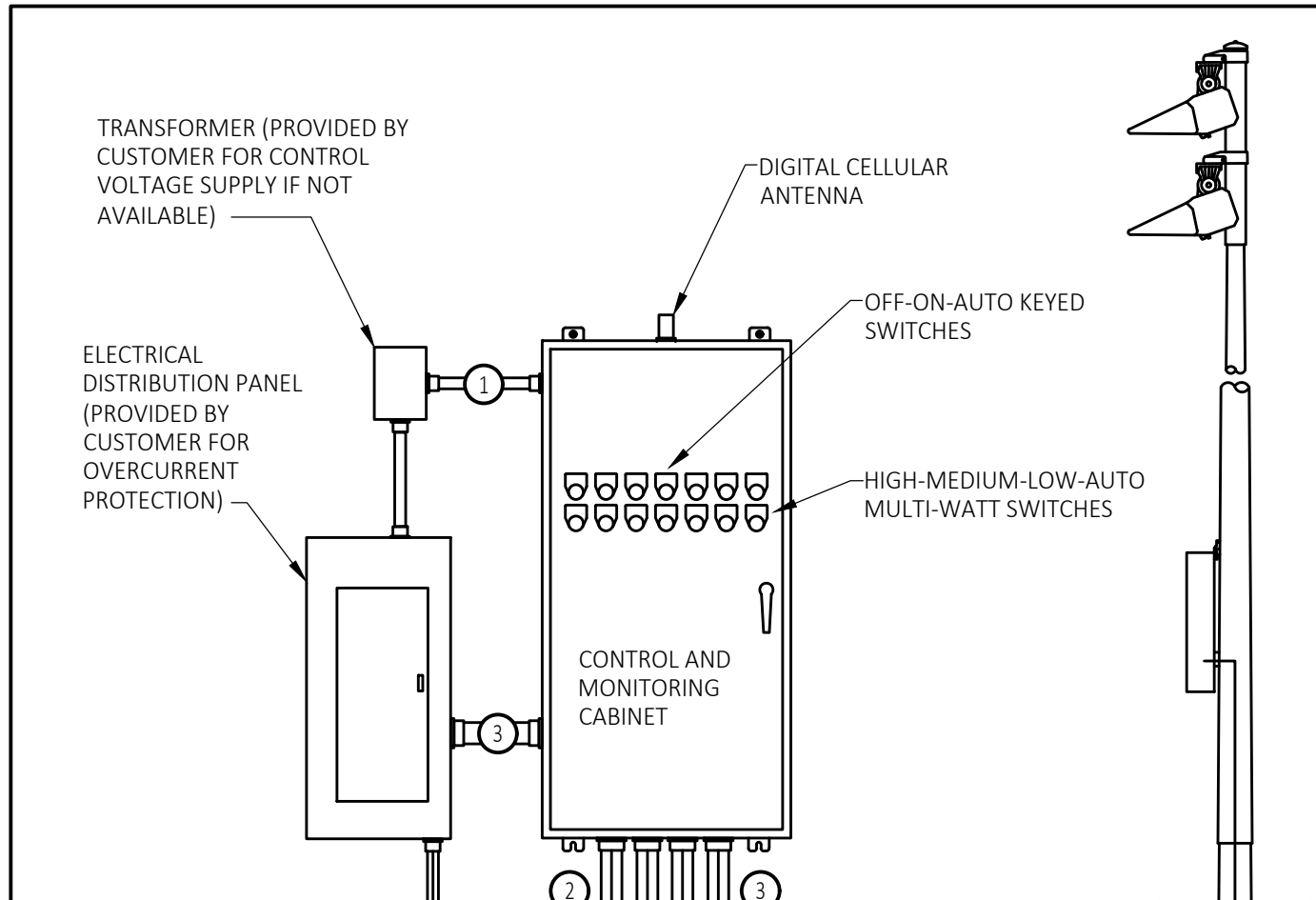
③ RISER POLE DETAIL  
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② TRANSFORMER PAD DETAIL  
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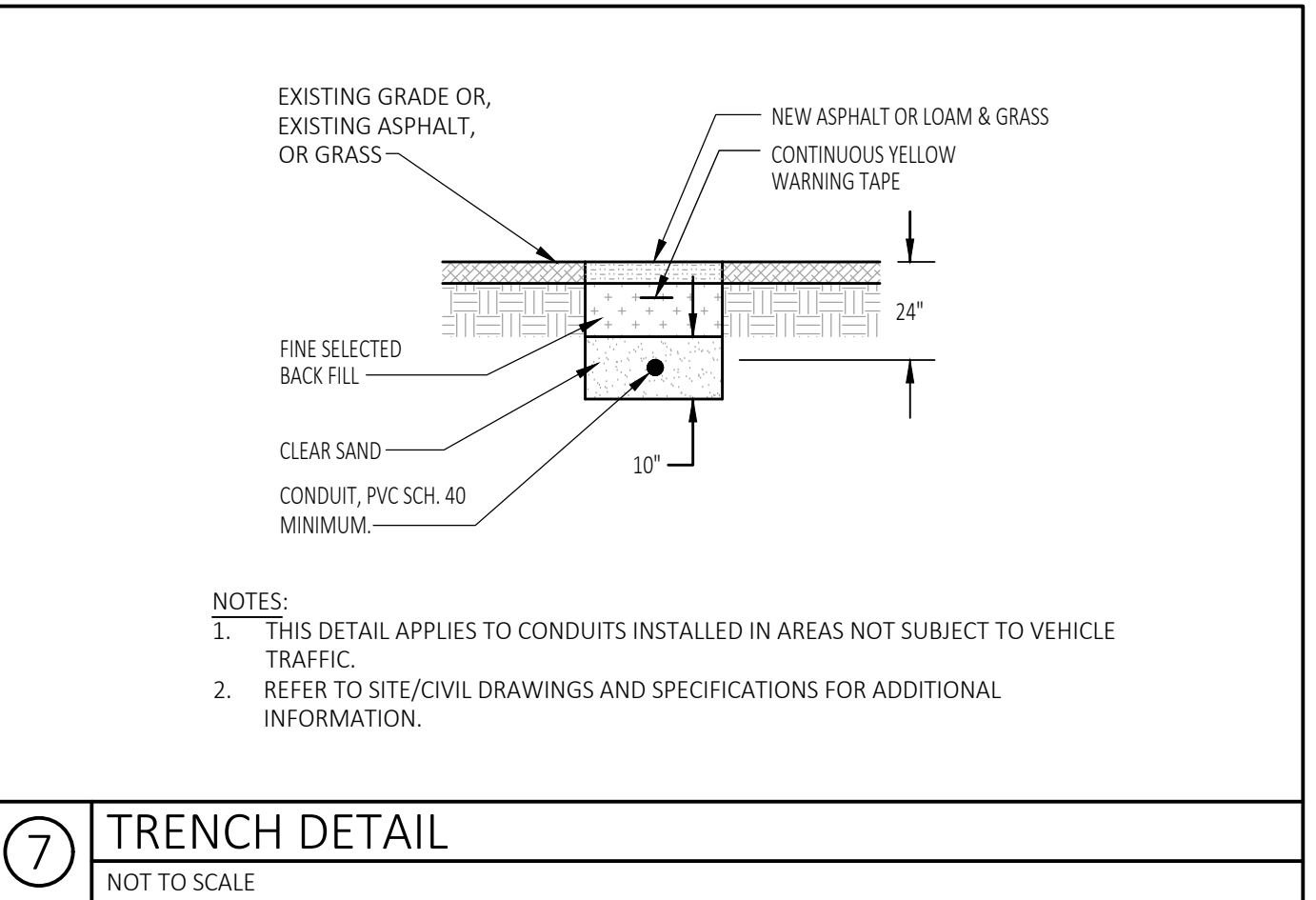


① HEAVY-DUTY HANDHOLE DETAIL  
 SCALE: N.T.S.

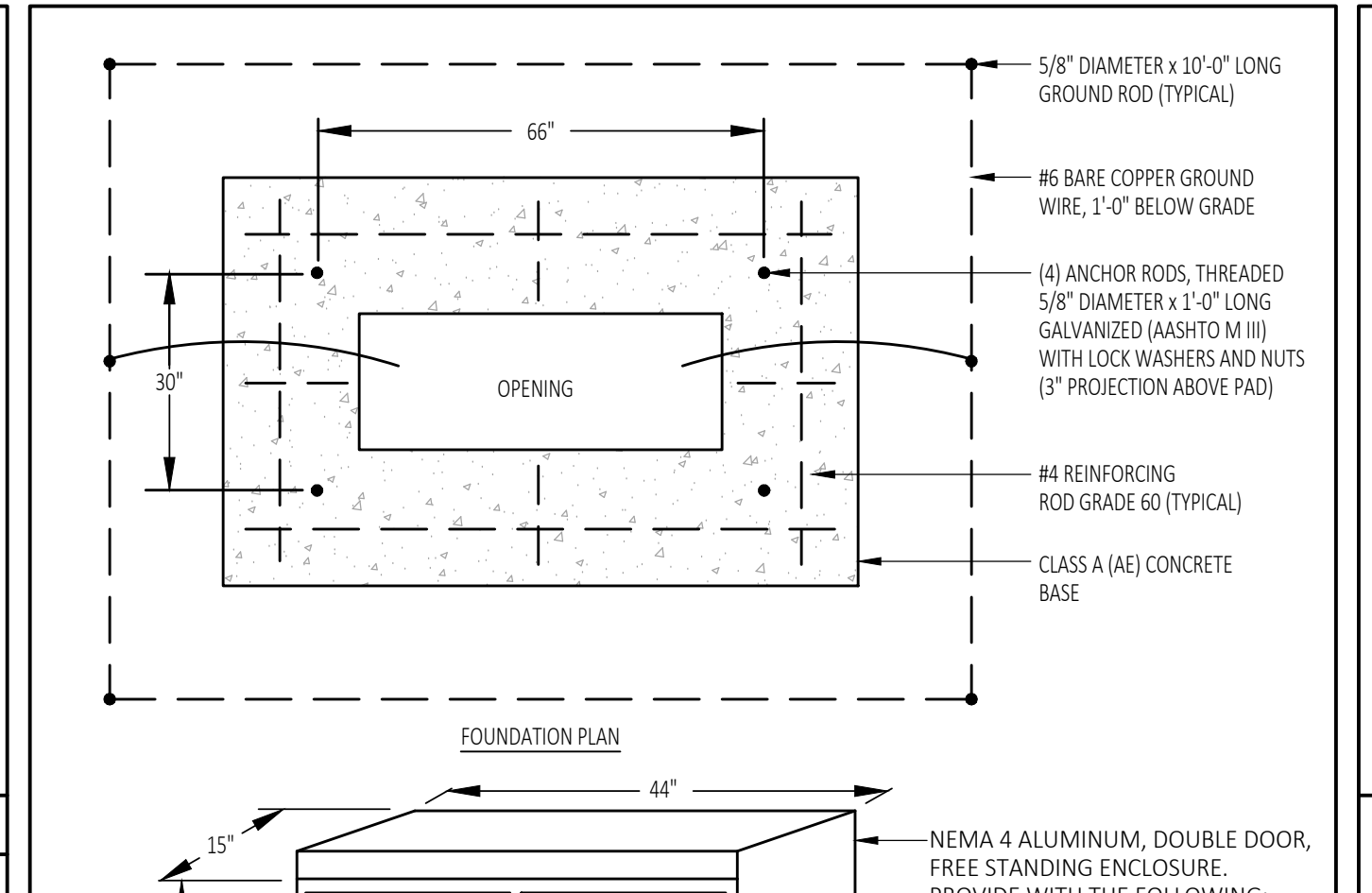


WIRE	DESCRIPTION	# OF WIRES	TYPE OF WIRE SIZE	MAX LENGTH WIRE	WIRE FORM MUSCO	NOTES	
①	MULTI-WATT CONTROL POWER	3	14 AWG (2.5MM <sup>2</sup> )	SEE NOTE "D"	NO	A,B,D	
②	SWITCHED MULTI-WATT CONTROL POWER	SEE NOTE "A"	14 AWG (2.5MM <sup>2</sup> )	SEE NOTE "D"	NO	A,B,D	
③	POWER TO LIGHTING CIRCUITS						SEE NOTE "C"

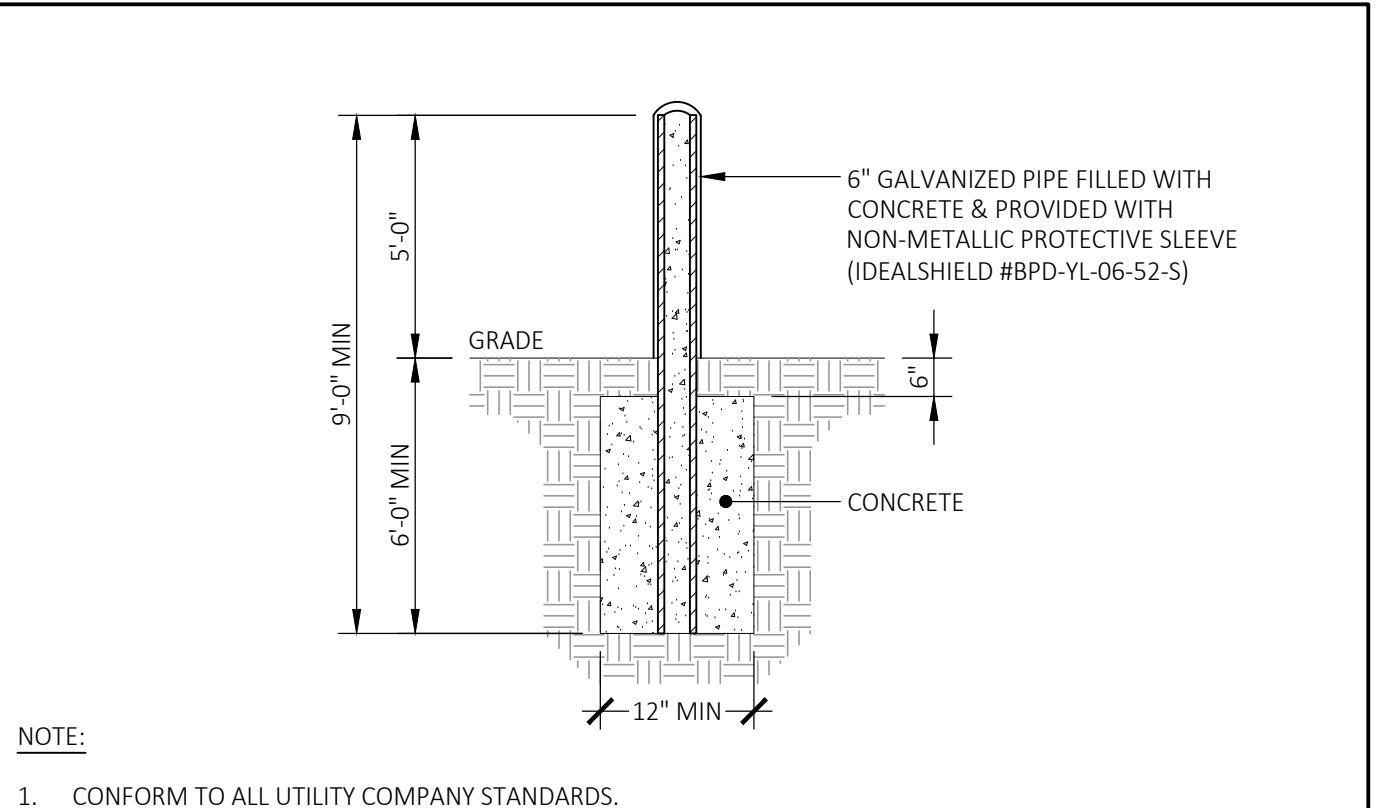
⑨ MUSCO LIGHTING CONTROL SYSTEM  
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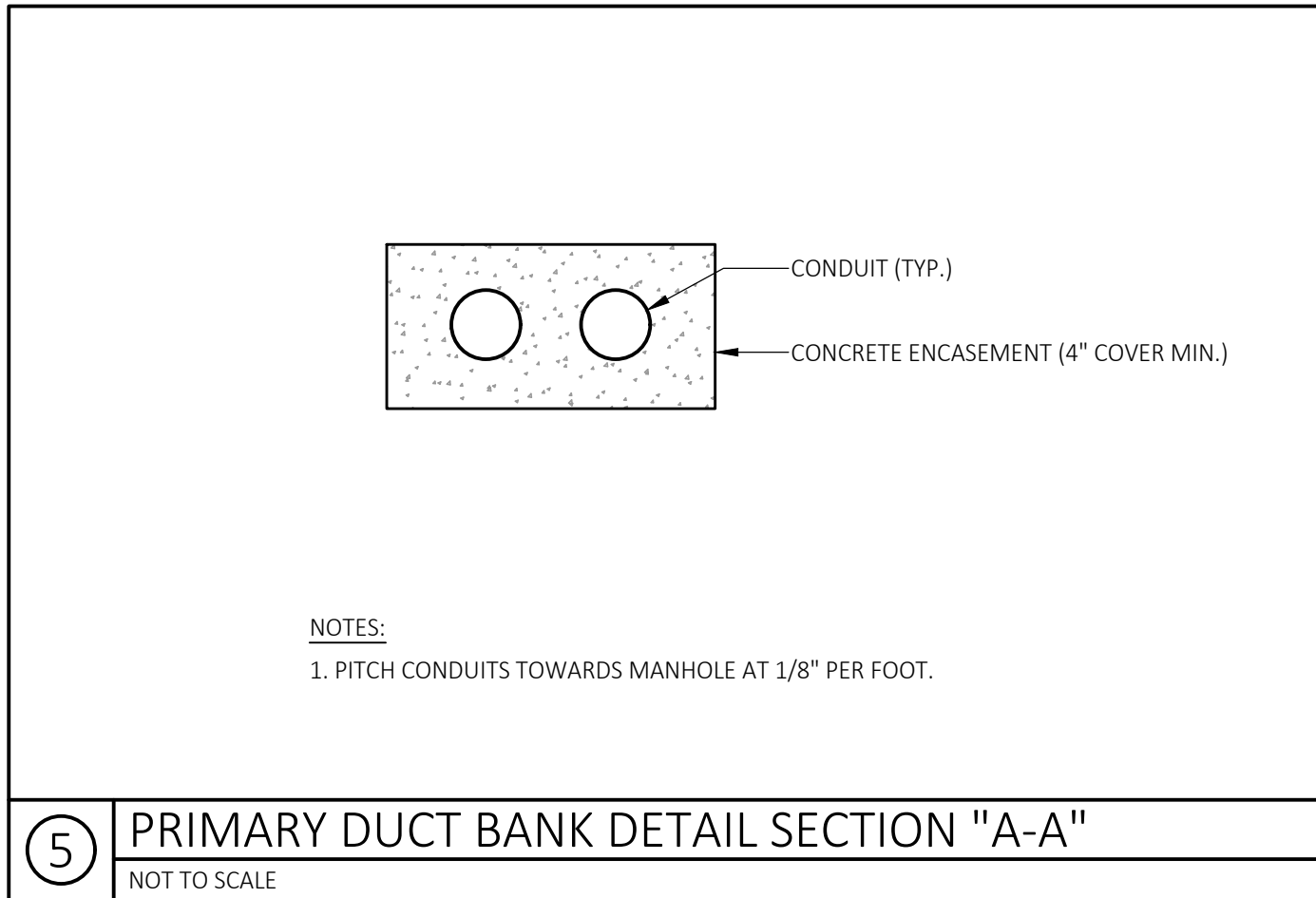
⑦ TRENCH DETAIL  
 NOT TO SCALE



⑥ TYPICAL SERVICE PEDESTAL DETAIL  
 NOT TO SCALE



⑧ TYPICAL PROTECTIVE BOLLARD DETAIL  
 NOT TO SCALE



⑤ PRIMARY DUCT BANK DETAIL SECTION "A-A"  
 NOT TO SCALE