

# SITE IMPROVEMENT PLAN FOR ROSA PARKS SQUARE ADD ALTERNATE SCOPE

MACON, GEORGIA

PREPARED FOR:

**MACON-BIBB COUNTY**

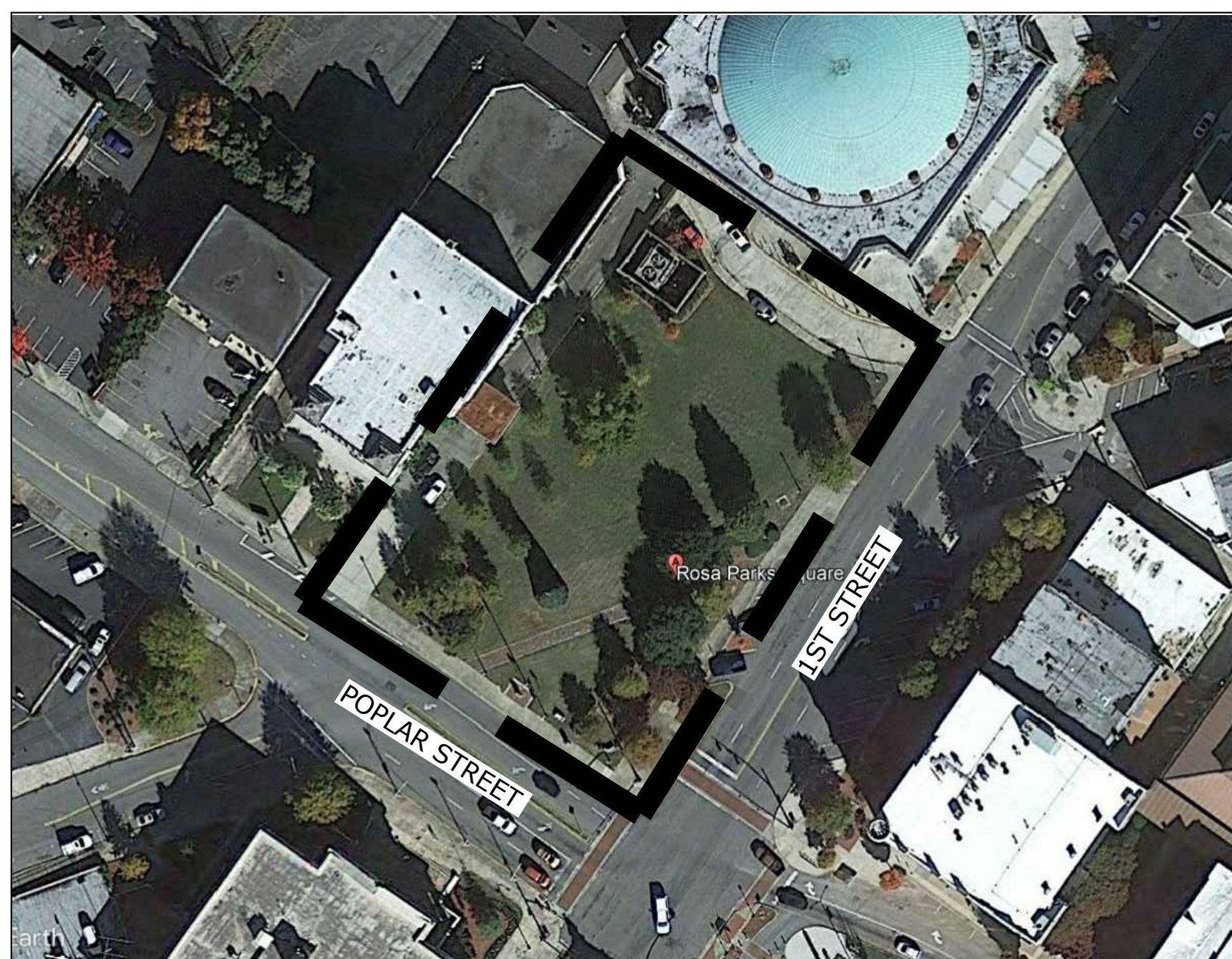
MACON, GEORGIA

11/11/2021

100% CONSTRUCTION DOCUMENTS

REVISED 2024-04-05

SITE LOCATION MAP



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**STRIPING AND SIGNAGE:**

1. WARNING DEVICES SHALL BE PLACED PRIOR TO THE COMMENCEMENT OF WORK WITHIN A PUBLIC RIGHT-OF-WAY AND SHALL REMAIN IN PLACE UNTIL THE WORK WITHIN THE RIGHT-OF-WAY HAS BEEN COMPLETED.
2. ALL WARNING DEVICES SHALL CONFORM WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) STANDARDS AND LOCAL ORDINANCES FOR COLOR, SIZE, REFLECTIVITY, HEIGHT, AND PLACEMENT.
3. ALL SIGNS SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) STANDARDS AND LOCAL ORDINANCES FOR COLOR, SIZE, REFLECTIVITY, HEIGHT, AND PLACEMENT.
4. PAVEMENT MARKINGS, STRIPING (WHITE AND YELLOW), AND ARROW MARKINGS SHALL BE APPLIED USING PAINT MEETING THE STANDARDS OF THE GEORGIA DOT OR LOCAL ORDINANCE.
5. WHEN NECESSARY, EXISTING STRIPING SHALL BE REMOVED BY GRINDING, UNLESS SPECIFIED OTHERWISE BY THE LOCAL TRAFFIC ENGINEER.

**CONTRACTOR/DEVELOPER NOTES:**

1. FOR OTHER SITE, MISCELLANEOUS AND/OR SPECIAL NOTES SPECIFIC TO VARIOUS CONSTRUCTION PHASES, REFER TO EACH INDIVIDUAL SHEET FOR SAID NOTES AND/OR CONDITIONS.
2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDINGS AND TO THE STORMWATER CONVEYANCE SYSTEM, UNLESS OTHERWISE SPECIFIED ON THE DRAWINGS. TOP OF GROUND CONTACT ADJUSTMENT TO A BUILDING SLAB SHALL BE AT AN ELEVATION 8" BELOW THE SLAB ELEVATION (FFE).
3. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSURE THAT PRIOR TO ORDERING PROJECT MATERIALS THE MOST CURRENT SET OF CONSTRUCTION DOCUMENTS HAVE BEEN OBTAINED FROM THE ENGINEER INCLUDING, BUT NOT LIMITED TO, THE APPROVED SET(S) FROM ALL APPLICABLE AGENCIES AS APPROPRIATE.
4. THE DEVELOPER AND/OR DEVELOPERS CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE EXACT LOCATION, SIZE AND MATERIAL OF ANY EXISTING UTILITY, WATER OR SEWER FACILITY PROPOSED FOR CONNECTION OR USE BY THIS PROJECT.
5. DISTURBANCE TO ANY SURVEY MARKER MAY REQUIRE RE-ESTABLISHMENT OF THE MARKER OR MONUMENT BY A LICENSED SURVEYOR AT THE CONTRACTOR'S EXPENSE.

**DEMOLITION:**

1. CONTRACTOR SHALL REVIEW SITE DEVELOPMENT PLANS, AND SHALL REMOVE ALL EXISTING SITE FEATURES REQUIRED FOR CONSTRUCTING THE PROPOSED IMPROVEMENTS.
2. ALL PAVEMENT TO BE REMOVED (CONCRETE & ASPHALT) SHALL BE SAW CUT AT THE EDGE OF THE REMOVAL.
3. THE CONTRACTOR SHALL COORDINATE WITH LOCAL UTILITY OWNERS TO ENSURE UNINTERRUPTED UTILITY SERVICE TO USERS. SERVICE LINES TO BE REMOVED SHALL BE REMOVED TO THE MAIN LINE.
4. CLEAN-UP AND DISPOSAL: TRANSPORT TRASH, RUBBISH AND DEBRIS FROM SITE DAILY AND DISPOSE OF THEM IN A LEGAL FASHION. REMOVE AND PROMPTLY DISPOSE OF CONTAMINATED, VERMIN INFESTED, OR DANGEROUS MATERIALS ENCOUNTERED. DO NOT BURN OR BURY MATERIALS ON SITE. REMOVE TOOLS, EQUIPMENT AND PROTECTIONS WHEN WORK IS COMPLETE AND WHEN AUTHORIZED TO DO SO BY THE OWNER AND LOCAL AUTHORITIES HAVING JURISDICTION OVER THE WORK.

**GRADING AND EARTHWORK NOTES:**

1. **SURVEY CONTROL**
  - a. THE VERTICAL AND HORIZONTAL DATUM FOR THIS PROJECT CAN BE OBTAINED FROM THE SURVEYOR LISTED ON THE TITLE SHEET.
  - b. THE CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER IMMEDIATELY IF EXISTING CONDITIONS ENCOUNTERED ON THE PROJECT SITE DIFFER FROM THOSE DEPICTED ON THE PLANS. IF ANY CONFLICTS, DISCREPANCIES, OR OTHER UNSATISFACTORY CONDITIONS ARE DISCOVERED EITHER ON THE CONSTRUCTION DOCUMENTS OR THE FIELD CONDITIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR SURVEYOR IMMEDIATELY AND SHALL NOT COMMENCE OR CONTINUE OPERATION UNTIL THE CONFLICTS, DISCREPANCIES, AND/OR OTHER UNSATISFACTORY CONDITIONS ARE RESOLVED.
2. UNIFORMLY GRADE AREAS WITHIN LIMITS OF GRADING AS DEPICTED ON THE DRAWINGS, INCLUDING ADJACENT TRANSITION AREAS. SMOOTH FINISHED SOIL SURFACE WITHIN 0.1' OF THE PROPOSED CONTOURS AS DEPICTED ON THE DRAWINGS. COMPACT WITH UNIFORM LEVELS OR SLOPES BETWEEN POINTS WHERE ELEVATIONS ARE SHOWN, OR BETWEEN SUCH POINTS AND EXISTING GRADES.
3. **CONTRACTOR SHALL OBTAIN AND REVIEW THE GEOTECHNICAL REPORT**
4. **SUBGRADE AND FOUNDATION PREPARATION:**
  - a. REMOVE ALL TOPSOIL, VEGETATION, DEBRIS, UNSATISFACTORY SOIL MATERIALS, OBSTRUCTIONS, AND DELETERIOUS MATERIALS FROM GROUND SURFACE PRIOR TO PLACEMENT OF FILLS. TOPSOIL SHALL BE CONSIDERED TO MEAN ORIGINAL SURFACE SOIL, TYPICAL OF AREA, WHICH IS CAPABLE OF SUPPORTING NATIVE PLANT GROWTH, AND SHALL BE FREE OF LARGE STONES, ROOTS, BRUSH, WASTE CONSTRUCTION DEBRIS AND OTHER UNDESIRABLE MATERIAL OR CONTAMINATION. PLOW, STRIP, OR BREAK-UP SLOPED SURFACES STEEPER THAN 1 VERTICAL TO 4 HORIZONTAL SO THAT FILL MATERIAL WILL BOND WITH EXISTING SURFACE.
  - b. WHEN EXISTING GROUND SURFACE HAS A DENSITY LESS THAN THAT SPECIFIED UNDER "COMPACTION" FOR PARTICULAR AREA CLASSIFICATIONS, BREAK UP GROUND SURFACE, PULVERIZE, MOISTURE-CONDITION TO OPTIMUM MOISTURE CONTENT, AND COMPACT TO REQUIRED DEPTH AND PERCENTAGE OF MAXIMUM DENSITY. REMOVE AND REPLACE ANY EXISTING GROUND MATERIAL THAT DOES NOT MEET THE CRITERIA FOR SATISFACTORY SOIL MATERIAL OR WILL NOT COMPACT TO THE SPECIFICATIONS LISTED BELOW.
5. **SATISFACTORY SOIL MATERIALS:** SATISFACTORY SOIL MATERIALS FOR FILL MATERIAL SHALL BE LIMITED TO SOILS CLASSIFIED IN ACCORDANCE WITH ASTM D2487 AS SM, SC, ML AND CL. SATISFACTORY SOIL MATERIALS DESCRIBED ABOVE MUST BE FREE OF CLAY, ROCK OR GRAVEL LARGER THAN 2" IN ANY DIMENSION, DEBRIS, WASTE, FROZEN MATERIALS, VEGETABLE AND OTHER DELETERIOUS MATTER. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TESTING INCLUDING TESTING OF BORROW MATERIALS TO DETERMINE SUITABILITY FOR USE AS FILL MATERIAL. UNSUITABLE MATERIALS FOR FILLING AND BACKFILLING ARE THOSE CLASSIFIED AS MH, CH, OL, OH AND PT IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM. EXCAVATED SOILS THAT ARE TOO WET TO COMPACT SHALL NOT BE CLASSIFIED UNSUITABLE DUE TO HIGH MOISTURE CONTENT ALONE.
6. **SOIL PLACEMENT, COMPACTION, AND TESTING REQUIREMENTS**
  - a. CONTROL SOIL COMPACTION DURING CONSTRUCTION PROVIDING NOT LESS THAN 95 PERCENT OF THE MAXIMUM DRY DENSITY (ASTM D-698) FOR SOILS WHICH EXHIBIT A WELL-DEFINED MOISTURE DENSITY RELATIONSHIP DETERMINED IN ACCORDANCE WITH ASTM STANDARDS.
  - b. ADDITIONAL COMPACTION SPECIFICATIONS MAY BE ASSOCIATED WITH THE CONSTRUCTION DETAILS.
  - c. PLACE BACKFILL AND MATERIALS IN LAYERS NOT MORE THAN 6" IN LOOSE DEPTH FOR MATERIAL COMPACTED BY HAND OPERATED TAMPERS.
  - d. BEFORE COMPACTION, MOISTEN OR AERATE EACH LAYER AS NECESSARY TO PROVIDE OPTIMUM (OR UP TO 3% ABOVE OPTIMUM FOR DETENTION OR SEDIMENT POND DAMS) MOISTURE CONTENT. COMPACT EACH LAYER TO REQUIRED PERCENTAGE OF MAXIMUM DRY DENSITY OR RELATIVE DRY DENSITY FOR EACH AREA CLASSIFICATION. DO NOT PLACE BACKFILL OR FILL MATERIAL ON SURFACES THAT ARE MUDDY, FROZEN, OR CONTAIN FROST OR ICE. REMOVE AND REPLACE, OR SCARIFY AND AIR DRY, SOIL MATERIAL THAT IS TOO WET TO PERMIT COMPACTION TO SPECIFIED DENSITY.
  - e. PLACE BACKFILL AND FILL MATERIALS EVENLY ADJACENT TO STRUCTURES TO REQUIRED ELEVATIONS. TAKE CARE TO PREVENT WEDGING ACTION OF BACKFILL AGAINST STRUCTURES BY CARRYING MATERIAL UNIFORMLY AROUND STRUCTURE TO APPROXIMATELY SAME ELEVATION IN EACH LIFT. COMPACTION OF SOILS ADJACENT TO STRUCTURES MUST MEET THE SPECIFICATIONS LISTED ABOVE.
  - f. PERFORM FIELD DENSITY TESTS IN ACCORDANCE WITH ASTM D 2937 (DRIVE CYLINDER METHOD), ASTM D 1556 (SAND CONE METHOD), AS APPLICABLE, OR NUCLEAR METHOD ASTM D 2922. MAKE AT LEAST ONE FIELD DENSITY TEST FOR EACH 12" LAYER OF FILL PLACEMENT FOR EVERY 2,500 SQ. FT. OF FILL AREA FOR DAMS OR 5,000 SQ. FT. FOR NON-DAM EARTHWORK AREAS.
  - g. IF IN THE OPINION OF THE ENGINEER, BASED ON TESTING SERVICE REPORTS AND INSPECTIONS, SUBGRADE OR FILLS WHICH HAVE BEEN PLACED ARE BELOW SPECIFIED DENSITY, THE CONTRACTOR SHALL REMOVE THE UNSUITABLE FILL AND REPLACE IT WITH FILL MATERIAL COMPACTED TO THE SPECIFICATIONS ABOVE.
7. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER OF THE DISCOVERY OF ANY GROUNDWATER, SUB-SURFACE SEEPAGE, OR SPRINGS DISCOVERED DURING THE COURSE OF CONSTRUCTION. IT SHALL BE THE RESPONSIBILITY OF THE OWNER TO CONSULT WITH A REGISTERED GEOTECHNICAL ENGINEER TO INSPECT THE SITE, AND TO MAKE ANY RECOMMENDATIONS REGARDING EVIDENCE AND REMEDIATION (IF ANY) OF SAID SUB-SURFACE WATERS.
8. THE CONTRACTOR SHALL INCLUDE IN THE BID COSTS RELATED TO TEMPORARY AND/OR PERMANENT MEASURES PROVIDED TO REMOVE SUBSURFACE SEEPAGE, SPRINGS OR OTHER GROUND WATER DURING AND PERMITTING, FRENCH DRAIN, ETC. WHETHER OR NOT DEPICTED IN THE BID SET.
9. ALL CUT AND FILL SLOPES (WHERE NO WALL IS PROPOSED) SHALL BE EQUAL TO OR FLATTER THAN 3:1 (HORIZONTAL:VERTICAL), UNLESS OTHERWISE SPECIFIED ON THE DRAWINGS.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL LOCAL PERMITS INCLUDING, BUT NOT LIMITED TO BUILDING, EROSION CONTROL, LAND DISTURBANCE, AND ENCROACHMENT PERMITS. NO WORK IS TO BE INITIATED UNTIL PERMITS ARE RECEIVED.

**ELECTRONIC CAD FILE NOTICE**

THE DWG FILE ASSOCIATED WITH THIS PLAN IS ONLY SUITABLE FOR USE BY THE DESIGN PROFESSIONAL FOR PRODUCING PRINTS OF THE DESIGN INTENT. ANY OTHER USE OF THE DWG FILE IS AT THE RISK OF THE USER.

**UTILITY LOCATION:**

1. THE CONTRACTOR SHALL LOCATE UTILITIES BY CALLING (TOLL FREE) 811 A MINIMUM OF 48 HOURS PRIOR TO THE START OF ANY EXCAVATION AS SHOWN ON THIS PLAN. ABOVE GROUND UTILITY LOCATIONS SHOWN ON THIS PLAN WERE OBTAINED FROM FIELD OBSERVATIONS. UNDERGROUND UTILITY LOCATIONS AND EASEMENT LOCATIONS AND/OR REFERENCES WERE FURNISHED TO US BY AGENCIES OR INDIVIDUALS AND WE DO NOT CERTIFY THE ACCURACY OR COMPLETENESS OF THIS INFORMATION. UTILITY LOCATIONS SHALL BE CONFIRMED IN THE FIELD PRIOR TO PROCEEDING WITH CONSTRUCTION. THE OWNER SHALL COORDINATE WITH EASEMENT AND UTILITY OWNERS PRIOR TO COMMENCING CONSTRUCTION.
2. ALL EXISTING UTILITIES, UTILITIES EASEMENTS, AND UTILITY RIGHT-OF-WAY MAY NOT BE DEPICTED ON THESE DRAWINGS. UNDERGROUND UTILITY LOCATIONS SHOWN ON THIS PLAN (IF ANY) ARE APPROXIMATE ONLY, AND IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXACT LOCATION OF ANY SUCH UTILITIES. THE CONTRACTOR SHALL VERIFY LOCATIONS OF EXISTING UTILITIES PRIOR TO COMMENCING WORK. THE UTILITY LOCATIONS SHOWN ON THIS PLAN ARE FOR THE CONTRACTOR'S CONVENIENCE ONLY. THE ENGINEER ASSUMES NO RESPONSIBILITY TO VERIFY UTILITY LOCATIONS. CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL DAMAGES TO EXISTING UTILITIES. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF ANY EXISTING UTILITIES WILL AFFECT OR IMPEDE THE PROGRESSION OR COMPLETION OF THE DESIGN INTENT OF THESE CONSTRUCTION DOCUMENTS.
3. THE CONTRACTOR SHALL COORDINATE RELOCATION OF ANY EXISTING UTILITIES WITH THE APPROPRIATE UTILITY OWNER PRIOR TO THE START OF ANY CONSTRUCTION.
4. UTILITY OWNERS SHALL BE NOTIFIED IN ADVANCE OF THE WORK.

**UTILITY NOTES:**

1. CONTRACTOR SHALL PLACE BLACK PLASTIC BAGS OVER TOP OF ALL OUT-OF-SERVICE FIRE HYDRANTS UNTIL THE HYDRANTS ARE IN SERVICE.
2. METALLIC TAPE LOCATOR SHALL BE USED ON ALL SANITARY SEWER LATERALS.
3. THE CONTRACTOR SHALL NOTIFY THE MACON WATER AUTHORITY INSPECTIONS DEPARTMENT 48 HOURS PRIOR TO BEGINNING CONSTRUCTION- CALL CHIEF INSPECTOR JOEL HERNDON (478) 464-5639.
4. ALL WORK PERFORMED IN ASSOCIATION WITH THIS PROJECT MUST CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE MACON WATER AUTHORITY (MWA OR THE AUTHORITY).
5. ALL BACKFLOW PREVENTION DEVICES MUST BE INSTALLED AND TESTED WITHIN SEVEN (7) BUSINESS DAYS AFTER METER INSTALLATIONS AND ESTABLISHED USE OF THE METER ACCOUNTS.

**STORMWATER:**

1. THE CONTRACTOR MUST PROTECT DRAINAGE STRUCTURES DURING CONSTRUCTION. ONCE A PIPE IS PLACED, ADDITIONAL PROTECTIVE FILL MAY BE NEEDED OVER STORM DRAIN PIPES DURING THE CONSTRUCTION PROCESS.
2. ALL PIPE THAT IS PART OF A ROADWAY DRAINAGE SYSTEM, IF ANY, SHALL BE 14 GAUGE MINIMUM BCCMP UNLESS OTHERWISE SPECIFIED ON THE DRAWINGS.
3. PIPE SHALL TO BE INSTALLED PER GA DOT STD 10300.
4. CORRUGATED METAL PIPE, IF SHOWN, SHALL TO BE INSTALLED IN LENGTHS TO PREVENT JOINTS FROM BEING LOCATED UNDER THE PAVEMENT.
5. ALL DROP INLETS SHALL BE CONSTRUCTED PER GA DOT STANDARDS & DETAILS.
6. ALL HEADWALLS SHALL BE CONSTRUCTED PER GA DOT STANDARDS.
7. ALL CATCH BASINS SHALL BE CONSTRUCTED PER GA DOT STD 10330 OR 10340 UNLESS AN ALTERNATE DETAIL IS PROVIDED.
8. ALL FLARED END SECTIONS SHALL BE PER GA DOT STD 1120.
9. ALL JUNCTION BOXES SHALL BE PER GA DOT STANDARDS & DETAILS.
10. ALL PAVEMENT SHALL BE CONSTRUCTED PER GA DOT STANDARDS & SPECIFICATIONS.

**EROSION AND CONTROL:**

1. ALL SILT BARRIERS MUST BE PLACED AS ACCESS IS OBTAINED DURING CLEARING AS SHOWN, AND/OR AS DIRECTED BY THE LOCAL INSPECTOR. GRADING SHALL NOT BE INITIATED UNTIL THE PERIMETER SILT BARRIER INSTALLATION AND SEDIMENT STORAGE FACILITIES ARE CONSTRUCTED.
2. ADDITIONAL EROSION CONTROL MEASURES SHALL BE EMPLOYED WHERE DETERMINED NECESSARY BY ACTUAL SITE CONDITIONS.
3. PROVISIONS TO PREVENT EROSION OF SOIL FROM THE SITE SHALL BE, AT A MINIMUM, IN CONFORMANCE WITH THE REQUIREMENTS OF THE MANUAL FOR SEDIMENT AND EROSION CONTROL IN GEORGIA AND IN CONFORMANCE WITH LOCAL ORDINANCES.
4. PRIOR TO ANY OTHER CONSTRUCTION, A STABILIZED CONSTRUCTION EXIT SHALL BE CONSTRUCTED AT EACH SITE ENTRY/EXIT. THE CONSTRUCTION EXITS SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY. PERIODIC REPAIR AND/OR TOP DRESSING WITH STONE MAY BE REQUIRED.
5. PRIOR TO COMMENCING LAND DISTURBANCE ACTIVITIES, THE LIMITS OF LAND DISTURBANCE SHALL BE CLEARLY AND ACCURATELY DEMARCATED WITH STAKES, RIBBONS, OR OTHER APPROPRIATE MEANS. THE LOCATION AND EXTENT OF ALL AUTHORIZED LAND DISTURBANCE SHALL OCCUR INSIDE THE APPROVED LIMITS AS INDICATED ON THE APPROVED PLANS.
6. STORM DRAIN SYSTEMS SHALL BE PROTECTED AND MAINTAINED SUCH THAT THEY REMAIN CLEAN AND FREE OF SILT AND DEBRIS.
7. SEEDING SPECIFICATIONS AND APPLICATION RATES ARE SHOWN IN THIS PLAN. ANY SUBSTITUTIONS WILL REQUIRE APPROVAL OF THE LOCAL GOVERNMENTAL AGENCY AND THE OWNER.
8. EROSION CONTROL MEASURES SHALL BE INSTALLED IMMEDIATELY AFTER GROUND DISTURBANCE OCCURS. THE LOCATION OF SOME OF THE EROSION CONTROL DEVICES MAY NEED TO BE ALTERED FROM THAT SHOWN ON THE APPROVED PLANS IF DRAINAGE PATTERNS DURING CONSTRUCTION ARE DIFFERENT FROM THE FINAL PROPOSED DRAINAGE PATTERNS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ACCOMPLISH EROSION CONTROL FOR ALL DRAINAGE PATTERNS CREATED AT VARIOUS STAGES DURING CONSTRUCTION. THE CONTRACTOR SHALL REPORT ANY DIFFICULTY IN CONTROLLING EROSION DURING CONSTRUCTION TO THE ENGINEER.

**LEGEND**

	EXISTING	PROPOSED
IRON PIN FOUND	⊙	
IRON PIN SET	⊙	
CONCRETE MONUMENT FOUND	⊙	
BENCHMARK	⊙	
PROPERTY LINE / RIGHT OF WAY	---	---
CREEK / SWALE	---	---
CONTOUR	---	---
BOLLARD	⊙	⊙
WATER LINE	W	W
FIRE HYDRANT	⊙	⊙
WATER VALVE	⊙	⊙
IRRIGATION CONTROL VALVE	⊙	⊙
WATER METER	⊙	⊙
WELL	⊙	⊙
GAS LINE	G	G
GAS VALVE	⊙	⊙
GAS METER	⊙	⊙
MANHOLE	⊙	⊙
SANITARY SEWER LINE	SAN	SAN
CLEAN OUT	⊙	⊙
STORM SEWER PIPE	---	---
HEADWALL	---	---
DROP/YARD INLET/JUNCTION BOX	---	---
END SECTION	---	---
CATCH BASIN (GA. DOT)	---	---
LIGHT POLE	---	---
POWER/UTILITY POLE/GUY WIRE	---	---
OVERHEAD POWER, TELEPHONE, & CABLE	---	---
UNDERGROUND POWER	---	---
UNDERGROUND TELEPHONE	---	---
TRANSFORMER	---	---
TELEPHONE BOX	---	---
CABLE BOX	---	---
TREE	---	---
ASPHALT PAVEMENT	---	---
CONCRETE PAVEMENT	---	---
UNPAVED/GRAVEL ROAD	---	---
WETLANDS	---	---
LANDLOT	---	---
100-YEAR FLOOD LIMITS	---	---
EASEMENT	---	---
RAILROAD TRACK	---	---
GUARD RAIL	---	---
FENCE	---	---
BORE HOLE	---	---



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CONSULTANT INFORMATION:

PROJECT TITLE:

**ROSA PARKS SQUARE  
RENOVATION PROJECT**

POPLAR STREET  
MACON, GEORGIA

MACON-BIBB COUNTY  
MACON, GEORGIA

PROJECT NO:  
**21026**

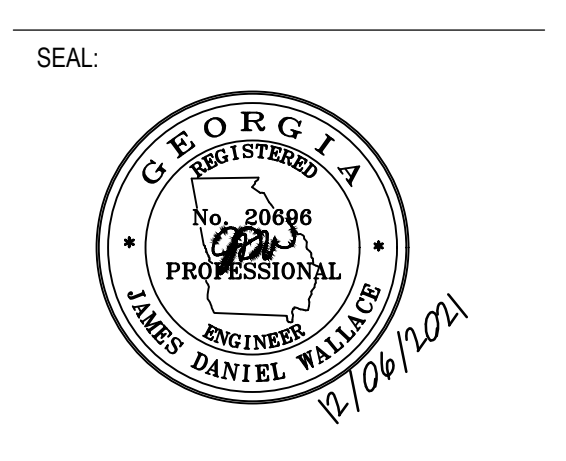
PRINCIPAL IN CHARGE: TF  
PROJECT ARCHITECT:  
DRAWN BY: MW

ISSUE AND DATE:  
MARCH 26th, 2024

CONSTRUCTION DOCUMENTS  
ALTERNATE SCOPE

REVISIONS:

NO.	DATE	DESCRIPTION



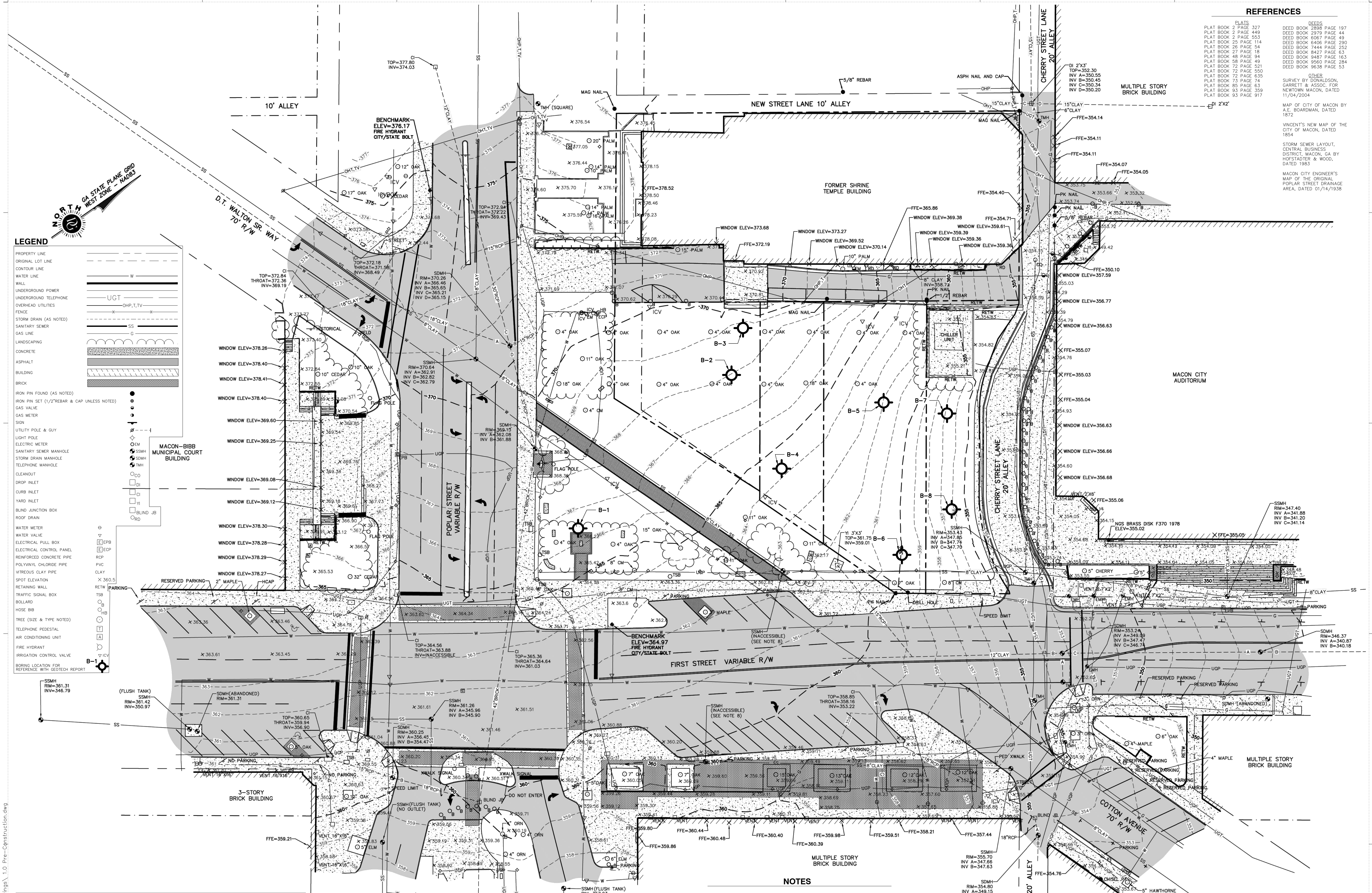
SHEET TITLE: GENERAL NOTES

SHEET NO:  
**C-0.0**

RELEASED FOR CONSTRUCTION

**REFERENCES**

- PLATS**
- PLAT BOOK 2 PAGE 327
  - PLAT BOOK 2 PAGE 449
  - PLAT BOOK 2 PAGE 553
  - PLAT BOOK 25 PAGE 114
  - PLAT BOOK 26 PAGE 54
  - PLAT BOOK 27 PAGE 18
  - PLAT BOOK 48 PAGE 84
  - PLAT BOOK 58 PAGE 49
  - PLAT BOOK 72 PAGE 521
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  - PLAT BOOK 72 PAGE 535
  - PLAT BOOK 73 PAGE 74
  - PLAT BOOK 85 PAGE 63
  - PLAT BOOK 93 PAGE 359
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- DEEDS**
- DEED BOOK 2898 PAGE 197
  - DEED BOOK 2979 PAGE 44
  - DEED BOOK 6067 PAGE 49
  - DEED BOOK 6406 PAGE 290
  - DEED BOOK 7444 PAGE 252
  - DEED BOOK 8427 PAGE 63
  - DEED BOOK 9487 PAGE 163
  - DEED BOOK 9566 PAGE 284
  - DEED BOOK 9638 PAGE 53
- OTHER**
- SURVEY BY DONALDSON, GARRETT & ASSOC. FOR NEWTOWN MACON, DATED 11/04/2004
  - MAP OF CITY OF MACON BY A.E. BOARDMAN, DATED 1872
  - VINCENY'S NEW MAP OF THE CITY OF MACON, DATED 1854
  - STORM SEWER LAYOUT, CENTRAL BUSINESS DISTRICT, MACON, GA BY HOFSTÄDTER & WOOD, DATED 1983
  - MACON CITY ENGINEER'S MAP OF THE ORIGINAL POPLAR STREET DRAINAGE AREA, DATED 01/14/1939



**LEGEND**

PROPERTY LINE  
ORIGINAL LOT LINE  
CONTOUR LINE  
WATER LINE  
WALL  
UNDERGROUND POWER  
UNDERGROUND TELEPHONE  
OVERHEAD UTILITIES  
FENCE  
STORM DRAIN (AS NOTED)  
SANITARY SEWER  
GAS LINE  
LANDSCAPING  
CONCRETE  
ASPHALT  
BUILDING  
BRICK  
IRON PIN FOUND (AS NOTED)  
IRON PIN SET (1/2" REBAR & CAP UNLESS NOTED)  
GAS VALVE  
GAS METER  
SON  
UTILITY POLE & GUY  
LIGHT POLE  
ELECTRIC METER  
SANITARY SEWER MANHOLE  
STORM DRAIN MANHOLE  
TELEPHONE MANHOLE  
CLEANOUT  
DROP INLET  
CURB INLET  
YARD INLET  
BLIND JUNCTION BOX  
ROOF DRAIN  
WATER METER  
WATER VALVE  
ELECTRICAL PULL BOX  
ELECTRICAL CONTROL PANEL  
REINFORCED CONCRETE PIPE  
POLYVINYL CHLORIDE PIPE  
VITREOUS CLAY PIPE  
SPOT ELEVATION  
RETAINING WALL  
TRAFFIC SIGNAL BOX  
BOLLARD  
HORSE BIB  
TREE (SIZE & TYPE NOTED)  
TELEPHONE PEDESTAL  
AIR CONDITIONING UNIT  
FIRE HYDRANT  
IRRIGATION CONTROL VALVE  
BORING LOCATION FOR REFERENCE WITH GEOTECH REPORT

**MACON-BIBB MUNICIPAL COURT BUILDING**

**MACON CITY AUDITORIUM**

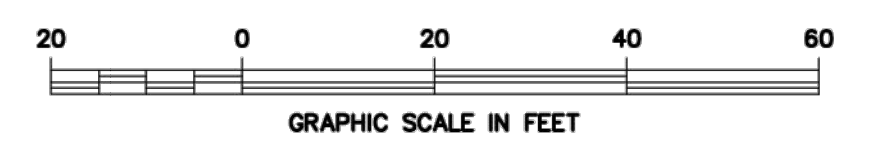
**3-STORY BRICK BUILDING**

**MULTIPLE STORY BRICK BUILDING**

**MULTIPLE STORY BRICK BUILDING**

**NOTES**

- DONALDSON, GARRETT AND ASSOCIATES, INC. AND THE LAND SURVEYOR WHOSE SEAL IS AFFIXED HEREON DO NOT GUARANTEE THAT ALL EASEMENTS THAT MAY AFFECT THIS PROPERTY ARE SHOWN. THIS DRAWING HAS BEEN GENERATED ELECTRONICALLY. THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT UNLESS IT HAS BEEN PROPERLY SEALED AND ORIGINALLY SIGNED BY A REGISTERED LAND SURVEYOR OF DONALDSON, GARRETT AND ASSOCIATES, INC. AUTHORITY OF O.C.G.A. 43-15-22.
- THIS SURVEY HAS BEEN PREPARED IN CONFORMITY WITH THE TECHNICAL STANDARDS FOR PROPERTY SURVEYS IN GEORGIA AS SET FORTH IN CHAPTER 180-7 OF THE RULES OF THE GEORGIA BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND LAND SURVEYORS AND AS SET FORTH IN THE GEORGIA PLAT ACT O.C.G.A. 43-15-67, 43-15-68, 43-15-69, 43-15-70, & 43-15-72.
- THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. UNDERGROUND UTILITIES NOT OBSERVED OR LOCATED MAY EXIST BUT MAY NOT BE SHOWN, AND MAY BE FOUND UPON EXCAVATION. THE SURVEYOR FURTHER DOES NOT WARRANT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED. INFORMATION REGARDING UNDERGROUND UTILITIES WERE COMPILED FROM FIELD OBSERVATIONS, MAPS OR PLANS PROVIDED BY UTILITY OWNERS, AND PER MARKINGS MADE BY UTILISURVEY, LLC. THIS INFORMATION MAY BE INCOMPLETE AND IS SUBJECT TO THE LIMITATIONS OF SUBSURFACE DETECTION EQUIPMENT. AVAILABLE RECORDS AND OTHER FACTORS. VERIFICATION OF UTILITIES SHOULD BE MADE PRIOR TO ANY CONSTRUCTION.
- ONE FOOT CONTOUR INTERVAL SHOWN.
- THE PROPERTIES DEPICTED HEREON LIE WITHIN FLOOD ZONE X (AREAS DETERMINED TO BE OUTSIDE 0.2% ANNUAL CHANCE FLOOD PLAIN (100-YEAR FLOOD), ACCORDING TO FEMA FLOOD INSURANCE RATE MAP 13021C0134F FOR BIBB COUNTY, GA, DATED APRIL 2, 2007.
- THIS SURVEY IS REFERENCED TO THE GA STATE PLANE GRID WEST ZONE, NAD83 HORIZONTAL & NAVD83 VERTICAL DATINGS AND IS BASED UPON RTK GPS OBSERVATIONS WITH A LEICA GS14 GPS ROVER UTILIZING THE LEICA SMARTNET REFERENCE NETWORK.
- THE SANITARY SEWER MANHOLES LABELED AS INACCESSIBLE ARE SHOWN PER THE MACON WATER AUTHORITY GIS MAPS AND ARE NOT FIELD LOCATED OR VERIFIED.
- THE STORM DRAINAGE PIPES THAT ARE NOT LABELED ARE SHOWN PER MACON CITY ENGINEER'S STORM DRAINAGE MAPS AND NOT FIELD VERIFIED. BLIND JUNCTION BOXES AND PIPE INTERSECTIONS ARE SHOWN PER THE SAME MAPS OR PAINT MARKINGS BY THE CITY AND LOCATED IN THE FIELD.



**TOPOGRAPHIC SURVEY**  
FOR  
**MACON-BIBB COUNTY URBAN DEVELOPMENT AUTHORITY**  
OF  
**ROSA PARKS SQUARE**  
SQUARES 40, 41, 62, & 63  
BIBB COUNTY MACON OLD CITY  
GEORGIA GEORGIA

**REGISTERED LAND SURVEYOR**  
No. 3122  
DAVID G. BENNETT

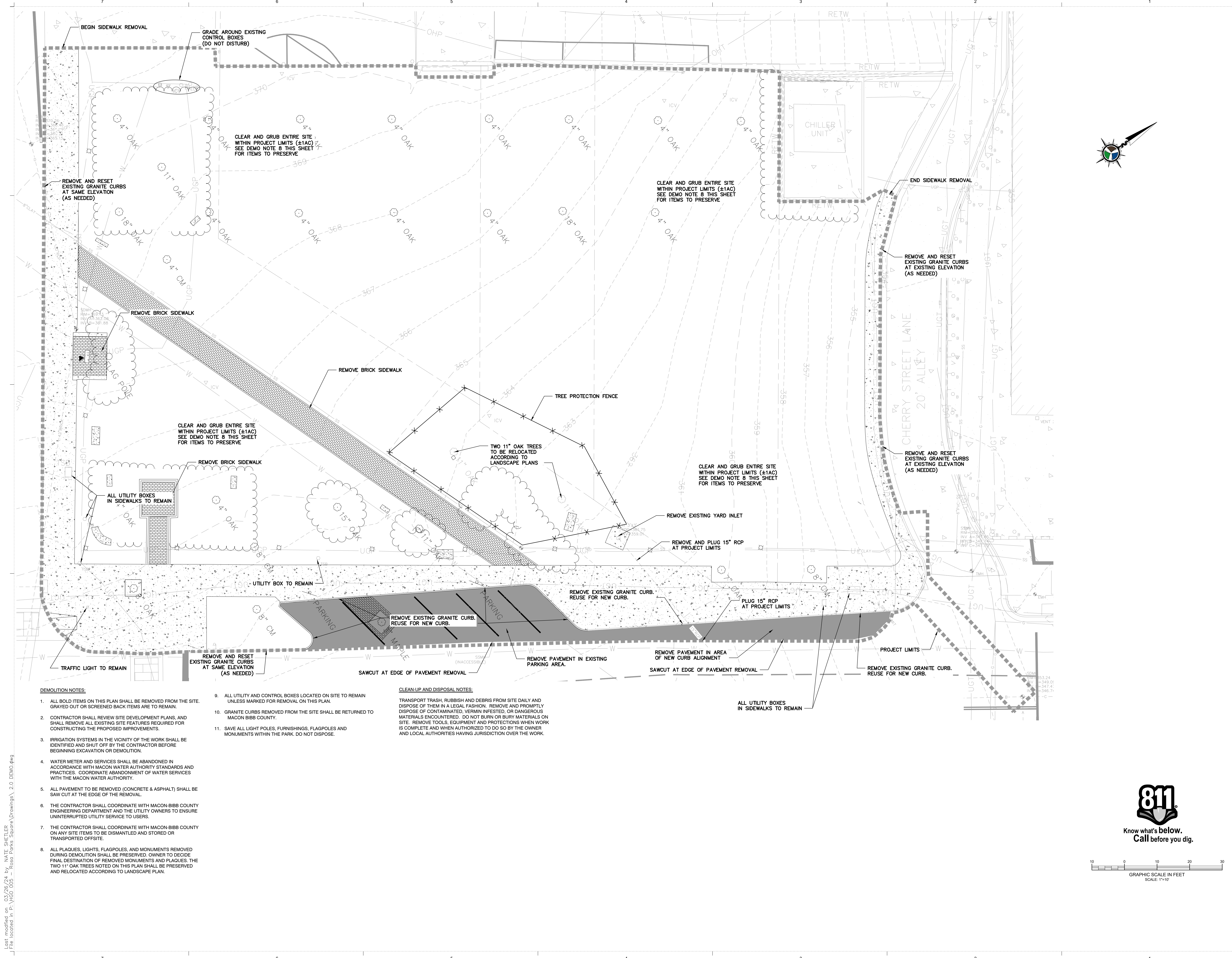
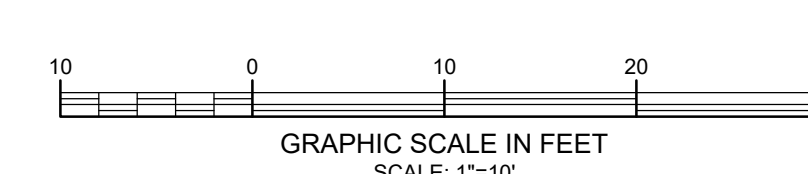
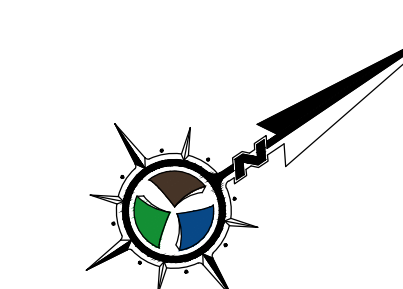
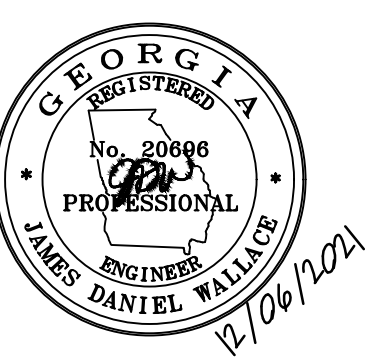
R.L.S. NO. 3122  
DATE: 8/18/2016  
CHKD: DGB  
SCALE: 1"=20'  
PROJ. NO.: 4039-005-D1  
FIELD BOOK: EDC

DSGN: N/A  
DRWN: DGB  
C&G: N/A  
DRAWING NO. 770-16-E  
SHEET 2 OF 2

**DONALDSON, GARRETT & ASSOCIATES, INC.**  
MACON - CHARLOTTE  
4678 RIVERCHASE DRIVE, P.O. BOX 7306  
MACON, GA 31210  
(478) 471-5500 Fax: (478) 477-2534  
http://www.dg-a.com CO# LGF000413

THIS DOCUMENT, AS INSTRUMENTS OF SERVICE, REMAINS THE PROPERTY OF D, G & A AND NO PART THEREOF MAY BE USED OR REPRODUCED IN ANY FORM WITHOUT WRITTEN PERMISSION.  
C1063TPS.DWG/20 PLOT DATE 08/18/2016 BY: DAVID

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**DEMOLITION NOTES:**

- ALL BOLD ITEMS ON THIS PLAN SHALL BE REMOVED FROM THE SITE. GRAYED OUT OR SCREENED BACK ITEMS ARE TO REMAIN.
- CONTRACTOR SHALL REVIEW SITE DEVELOPMENT PLANS, AND SHALL REMOVE ALL EXISTING SITE FEATURES REQUIRED FOR CONSTRUCTING THE PROPOSED IMPROVEMENTS.
- IRRIGATION SYSTEMS IN THE VICINITY OF THE WORK SHALL BE IDENTIFIED AND SHUT OFF BY THE CONTRACTOR BEFORE BEGINNING EXCAVATION OR DEMOLITION.
- WATER METER AND SERVICES SHALL BE ABANDONED IN ACCORDANCE WITH MACON WATER AUTHORITY STANDARDS AND PRACTICES. COORDINATE ABANDONMENT OF WATER SERVICES WITH THE MACON WATER AUTHORITY.
- ALL PAVEMENT TO BE REMOVED (CONCRETE & ASPHALT) SHALL BE SAW CUT AT THE EDGE OF THE REMOVAL.
- THE CONTRACTOR SHALL COORDINATE WITH MACON-BIBB COUNTY ENGINEERING DEPARTMENT AND THE UTILITY OWNERS TO ENSURE UNINTERRUPTED UTILITY SERVICE TO USERS.
- THE CONTRACTOR SHALL COORDINATE WITH MACON-BIBB COUNTY ON ANY SITE ITEMS TO BE DISMANTLED AND STORED OR TRANSPORTED OFFSITE.
- ALL PLAQUES, LIGHTS, FLAGPOLES, AND MONUMENTS REMOVED DURING DEMOLITION SHALL BE PRESERVED. OWNER TO DECIDE FINAL DESTINATION OF REMOVED MONUMENTS AND PLAQUES. THE TWO 11" OAK TREES NOTED ON THIS PLAN SHALL BE PRESERVED AND RELOCATED ACCORDING TO LANDSCAPE PLAN.

**CLEAN-UP AND DISPOSAL NOTES:**

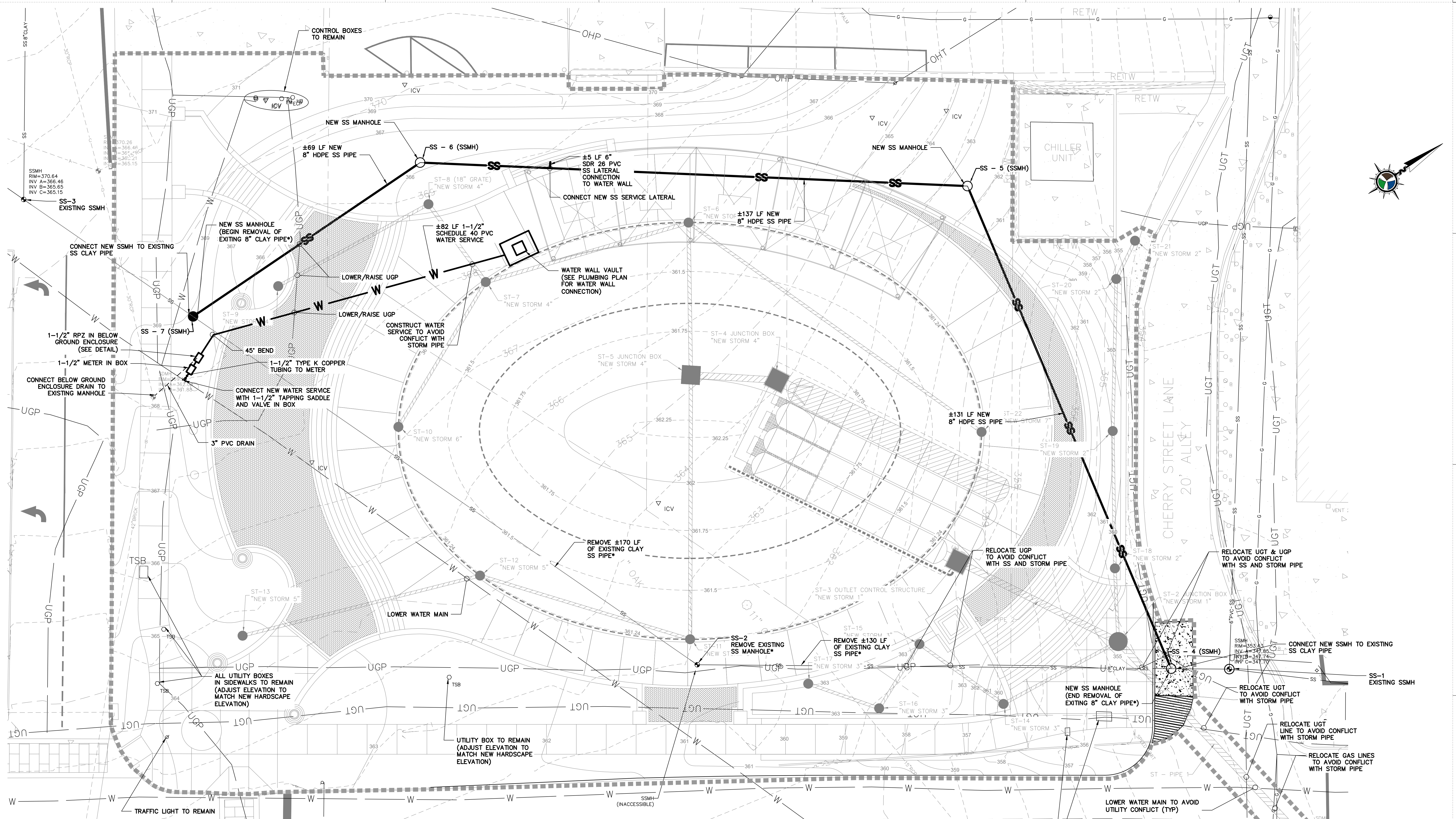
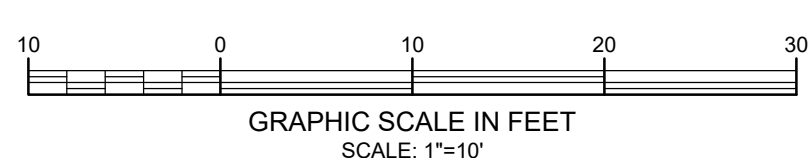
- ALL UTILITY AND CONTROL BOXES LOCATED ON SITE TO REMAIN UNLESS MARKED FOR REMOVAL ON THIS PLAN.
- GRANITE CURBS REMOVED FROM THE SITE SHALL BE RETURNED TO MACON BIBB COUNTY.
- SAVE ALL LIGHT POLES, FURNISHINGS, FLAGPOLES AND MONUMENTS WITHIN THE PARK. DO NOT DISPOSE.

TRANSPORT TRASH, RUBBISH AND DEBRIS FROM SITE DAILY AND DISPOSE OF THEM IN A LEGAL FASHION. REMOVE AND PROMPTLY DISPOSE OF CONTAMINATED, VERMIN INFESTED, OR DANGEROUS MATERIALS ENCOUNTERED. DO NOT BURN OR BURY MATERIALS ON SITE. REMOVE TOOLS, EQUIPMENT AND PROTECTIONS WHEN WORK IS COMPLETE AND WHEN AUTHORIZED TO DO SO BY THE OWNER AND LOCAL AUTHORITIES HAVING JURISDICTION OVER THE WORK.

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- GENERAL UTILITY NOTES:**
1. ABOVE GROUND UTILITY LOCATIONS WERE OBTAINED FROM FIELD OBSERVATIONS AND AVAILABLE RECORDS. UNDERGROUND UTILITY LOCATIONS AND EASEMENT LOCATIONS AND/OR REFERENCES WERE FURNISHED TO US BY AGENCIES OR INDIVIDUALS, AND WE DO NOT CERTIFY THE ACCURACY OR COMPLETENESS OF THIS INFORMATION. UTILITY LOCATIONS SHOULD BE CONFIRMED IN THE FIELD PRIOR TO PROCEEDING WITH CONSTRUCTION.
  2. IF ANY CONFLICTS, DISCREPANCIES, OR OTHER UNSATISFACTORY CONDITIONS ARE DISCOVERED EITHER ON THE CONSTRUCTION DOCUMENTS OR THE FIELD CONDITIONS, THE CONTRACTOR MUST NOTIFY THE ENGINEER OR SURVEYOR IMMEDIATELY AND SHALL NOT COMMENCE OR CONTINUE OPERATION UNTIL THE CONFLICTS, DISCREPANCIES, AND/OR OTHER UNSATISFACTORY CONDITIONS ARE RESOLVED.
  3. THE CONTRACTOR MUST PROTECT WATER, SEWER, DRAINAGE, AND OTHER UNDERGROUND AND OVERHEAD STRUCTURES/UTILITIES DURING CONSTRUCTION. ADDITIONAL PROTECTIVE FILL MAY BE NEEDED OVER PIPES DURING THE CONSTRUCTION PROCESS.
  4. THE CONTRACTOR SHALL COORDINATE WITH UTILITY OWNERS AND USERS TO PROTECT EXISTING UTILITY LINES WITHIN THE AREA OF THE PROJECT AND SHALL BE RESPONSIBLE TO COORDINATE ADDITIONS, RELOCATIONS AND REMOVALS OF UTILITY FACILITIES WITH THOSE SAME ENTITIES.
  5. UNDERGROUND UTILITY LOCATIONS AND ELEVATIONS SHALL BE CONFIRMED IN THE FIELD BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
  6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTINUED OPERATION AND REPAIR OF UTILITY FACILITIES AFFECTED DURING THE CONSTRUCTION OF THE PROPOSED IMPROVEMENTS.
  7. OVERHEAD UTILITY AND POWER LINES EXIST IN THE CONSTRUCTION AREA. THE CONTRACTOR SHALL UNDERSTAND THE "HIGH VOLTAGE SAFETY ACT" AND IMPLEMENT THE SAFETY MEASURES DESCRIBED IN THE ACT.
  8. ALL WATER AND SEWER UTILITY WORK PERFORMED IN ASSOCIATION WITH THIS PROJECT MUST CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE CITY OF MACON.
  9. 1-1/2" WATER SERVICE LINE IS SIZED TO ACCOMMODATE UP TO 20 GPM. IF GREATER FLOW IS REQUIRED, THEN THE LINE AND RPZ SHALL BE UPGRADED TO AN APPROPRIATE SIZE.

\*EXISTING SANITARY SEWER MAIN SHALL REMAIN IN SERVICE UNTIL NEW MAIN IS IN PLACE AND OPERATIONAL

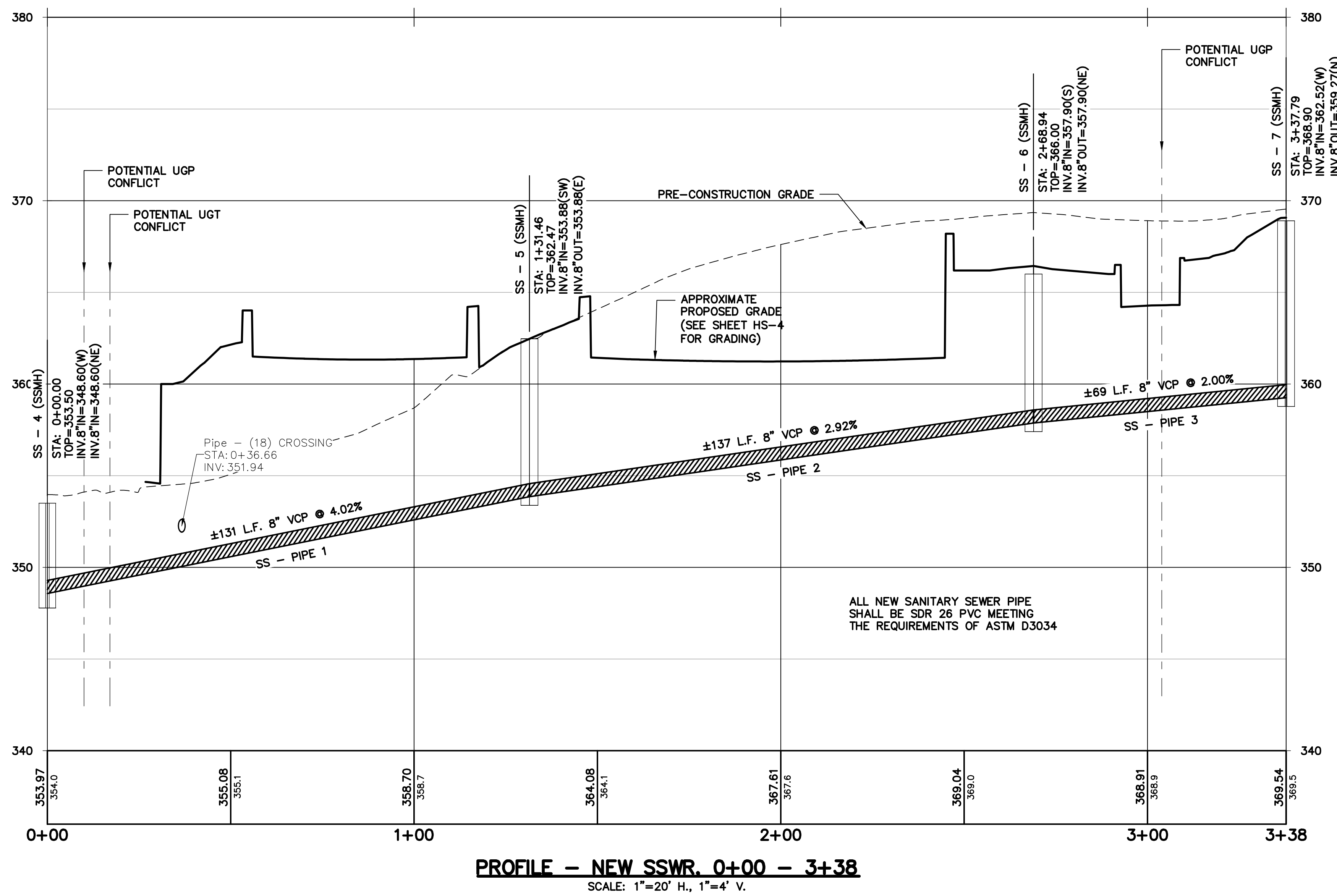
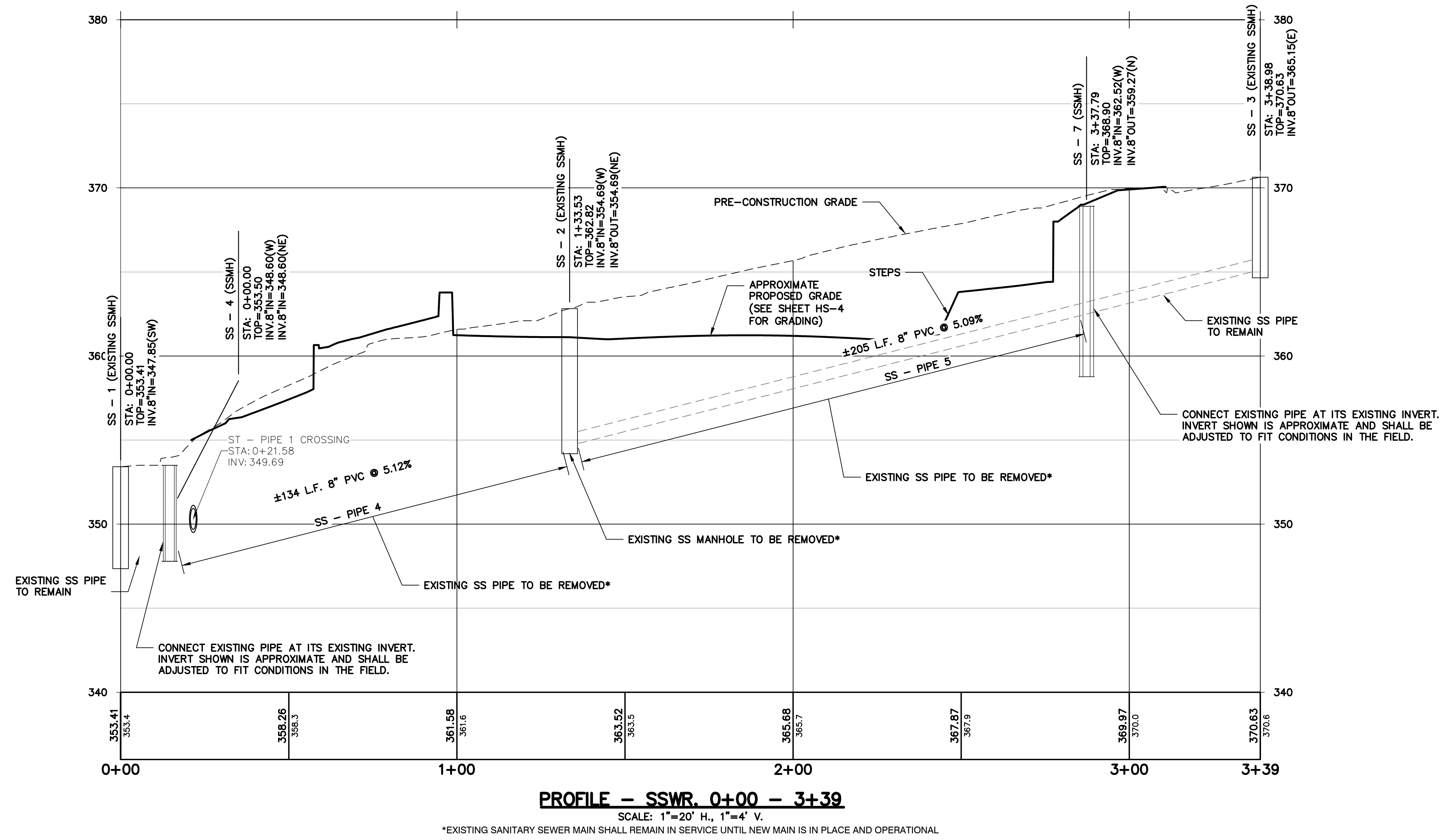
**WATER:**  
EXISTING WATER MAIN - CROSSING SITE FROM D.T. WALTON SR. WAY TO COTTON AVE  
PROPOSED 1.5" SCHEDULE 40 PVC PIPE WATER SERVICE: ±82 LF  
PROPOSED WATER METER  
PROPOSED RPZ BACKFLOW DEVICE

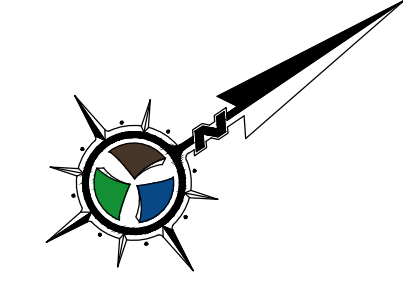
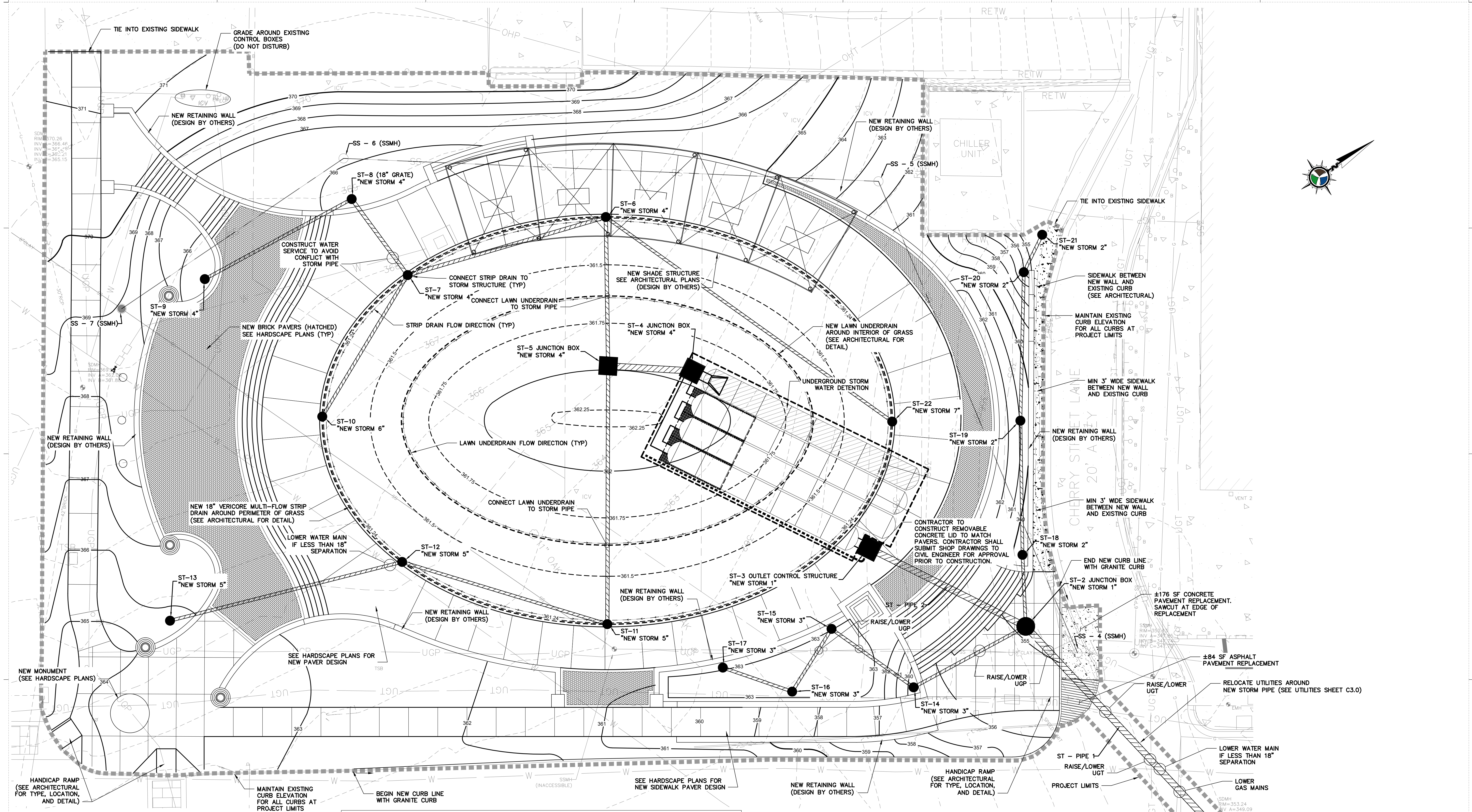
**SEWER:**  
EXISTING 8" VCP SS MAIN - CROSSING SITE FROM D.T. WALTON SR. WAY TO CHERRY STREET LANE  
PROPOSED RELOCATION OF SEWER MAIN: ±337 LF 8" SDR-26 PVC PIPE  
PROPOSED 6" SDR-26 PVC SEWER SERVICE LATERAL: ±5 LF

**NOTES:**  
1. ABOVE GROUND UTILITY LOCATIONS WERE OBTAINED FROM FIELD OBSERVATIONS AND AVAILABLE RECORDS. UNDERGROUND UTILITY LOCATIONS AND EASEMENT LOCATIONS AND/OR REFERENCES WERE FURNISHED TO US BY AGENCIES OR INDIVIDUALS AND WE DO NOT CERTIFY THE ACCURACY OR COMPLETENESS OF THIS INFORMATION. UTILITY LOCATIONS SHALL BE CONFIRMED IN THE FIELD PRIOR TO PROCEEDING WITH CONSTRUCTION. THE OWNER SHALL COORDINATE WITH EASEMENT AND UTILITY OWNERS PRIOR TO COMMENCING CONSTRUCTION.

2. IF ANY CONFLICTS, DISCREPANCIES, OR OTHER UNSATISFACTORY CONDITIONS ARE DISCOVERED EITHER ON THE CONSTRUCTION DOCUMENTS OR THE FIELD CONDITIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR SURVEYOR IMMEDIATELY AND SHALL NOT COMMENCE OR CONTINUE OPERATION UNTIL THE CONFLICTS, DISCREPANCIES, AND/OR OTHER UNSATISFACTORY CONDITIONS ARE RESOLVED.
3. CONTRACTOR SHALL PLACE BLACK PLASTIC BAGS OVER TOP OF ALL OUT-OF-SERVICE FIRE HYDRANTS UNTIL THE HYDRANTS ARE IN SERVICE.
4. METALLIC TAPE LOCATOR SHALL BE USED ON ALL SANITARY SEWER LATERALS.
5. THE CONTRACTOR SHALL NOTIFY THE MACON WATER AUTHORITY INSPECTIONS DEPARTMENT 48 HOURS PRIOR TO BEGINNING CONSTRUCTION- CALL CHIEF INSPECTOR JOEL HERNDON (478) 464-5639.
6. ALL WORK PERFORMED IN ASSOCIATION WITH THIS PROJECT MUST CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE MACON WATER AUTHORITY (MWA OR THE AUTHORITY).
7. ALL BACKFLOW PREVENTION DEVICES MUST BE INSTALLED AND TESTED WITHIN SEVEN (7) BUSINESS DAYS AFTER METER INSTALLATIONS AND ESTABLISHED USE OF THE METER ACCOUNTS.

ALL UTILITY BOXES IN SIDEWALKS TO REMAIN (ADJUST ELEVATION TO MATCH NEW HARDSCAPE ELEVATION)





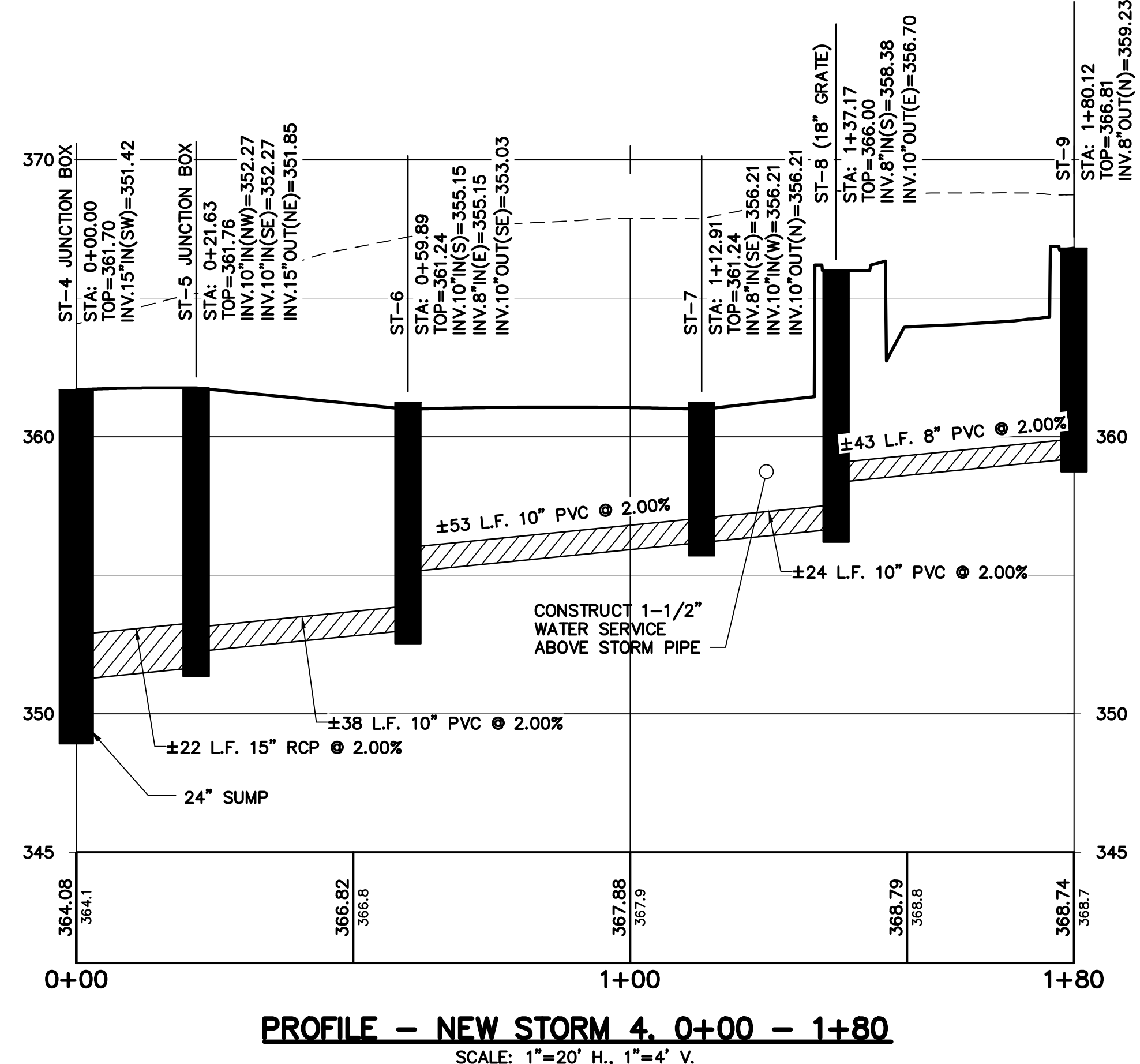
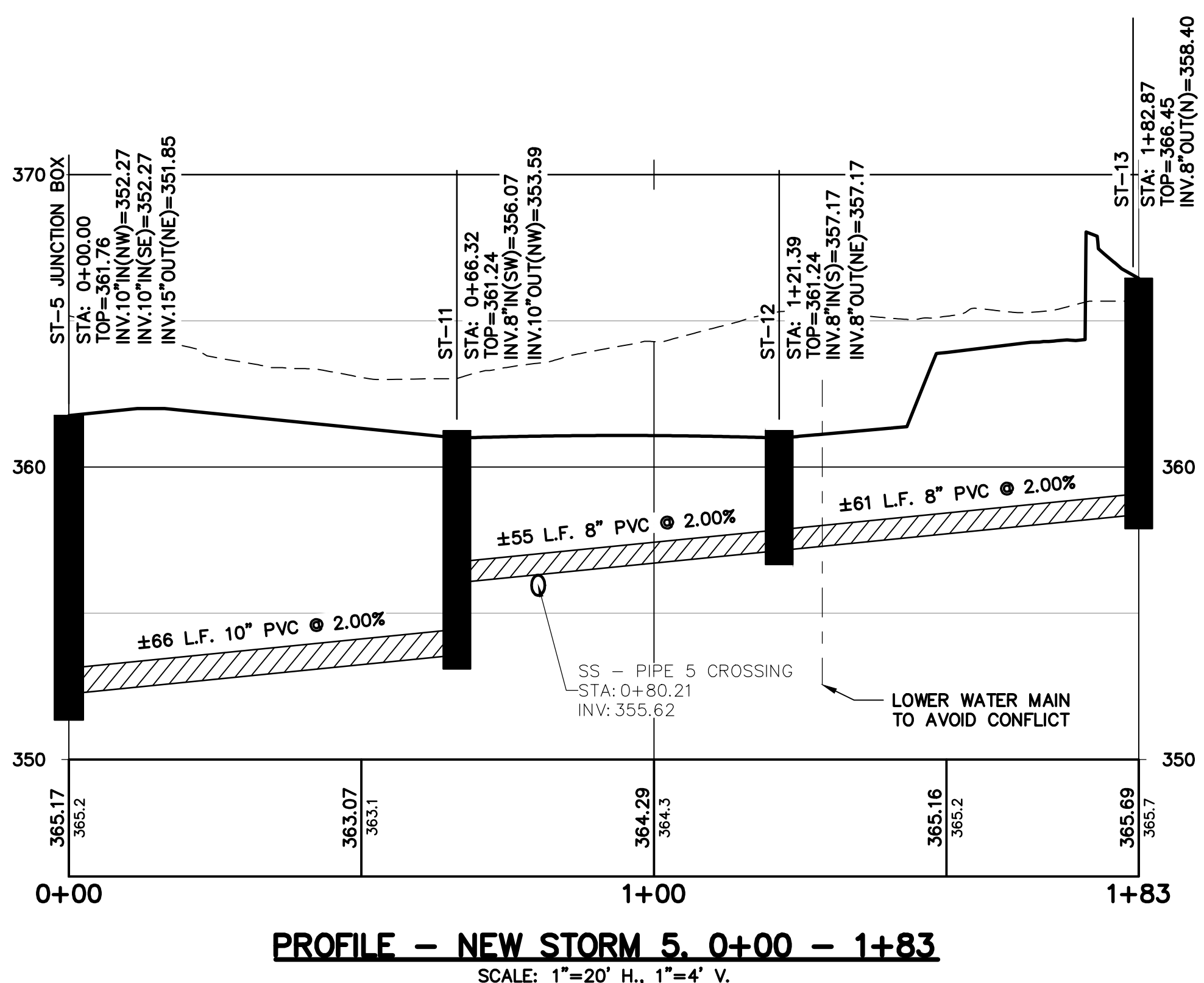
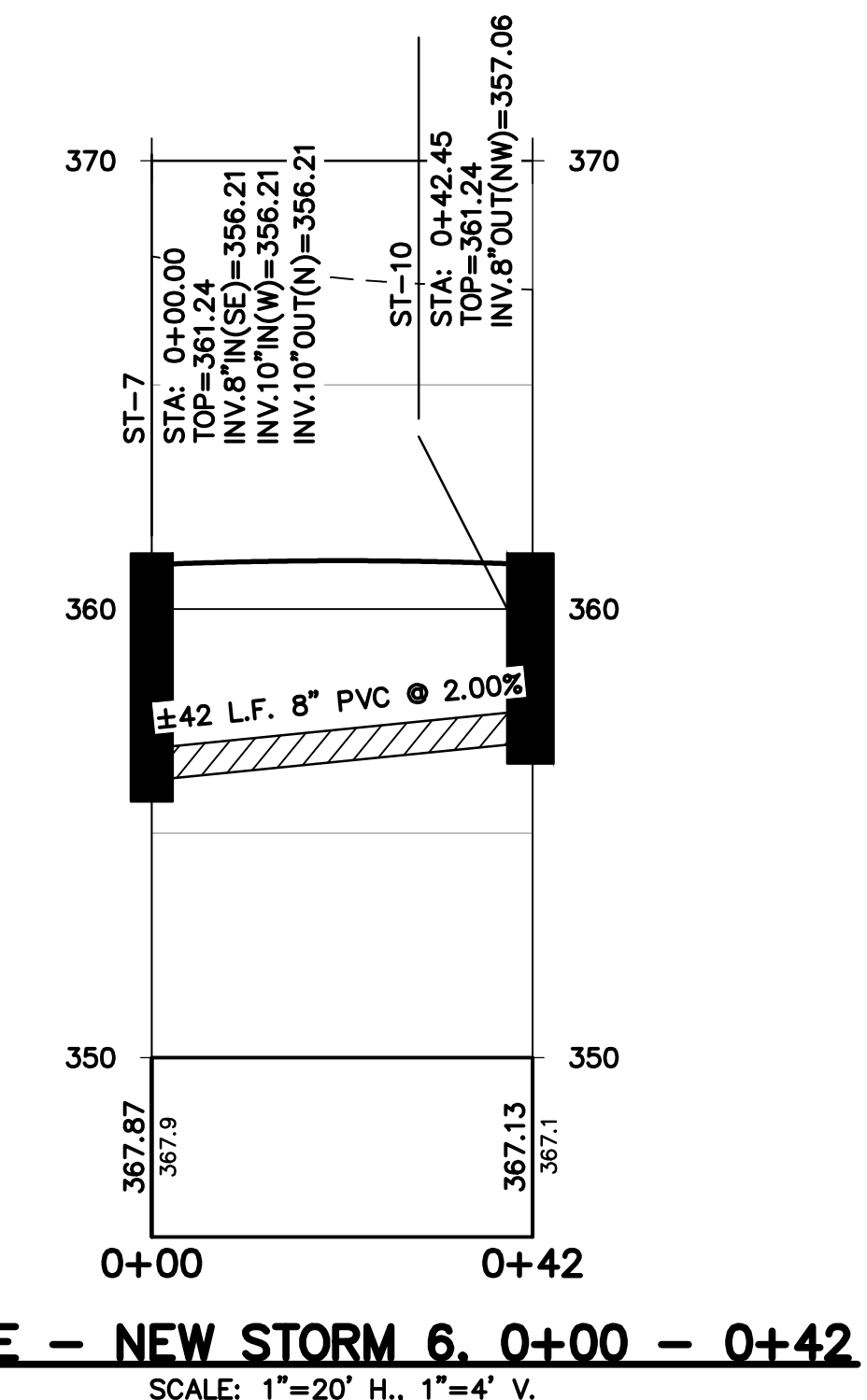
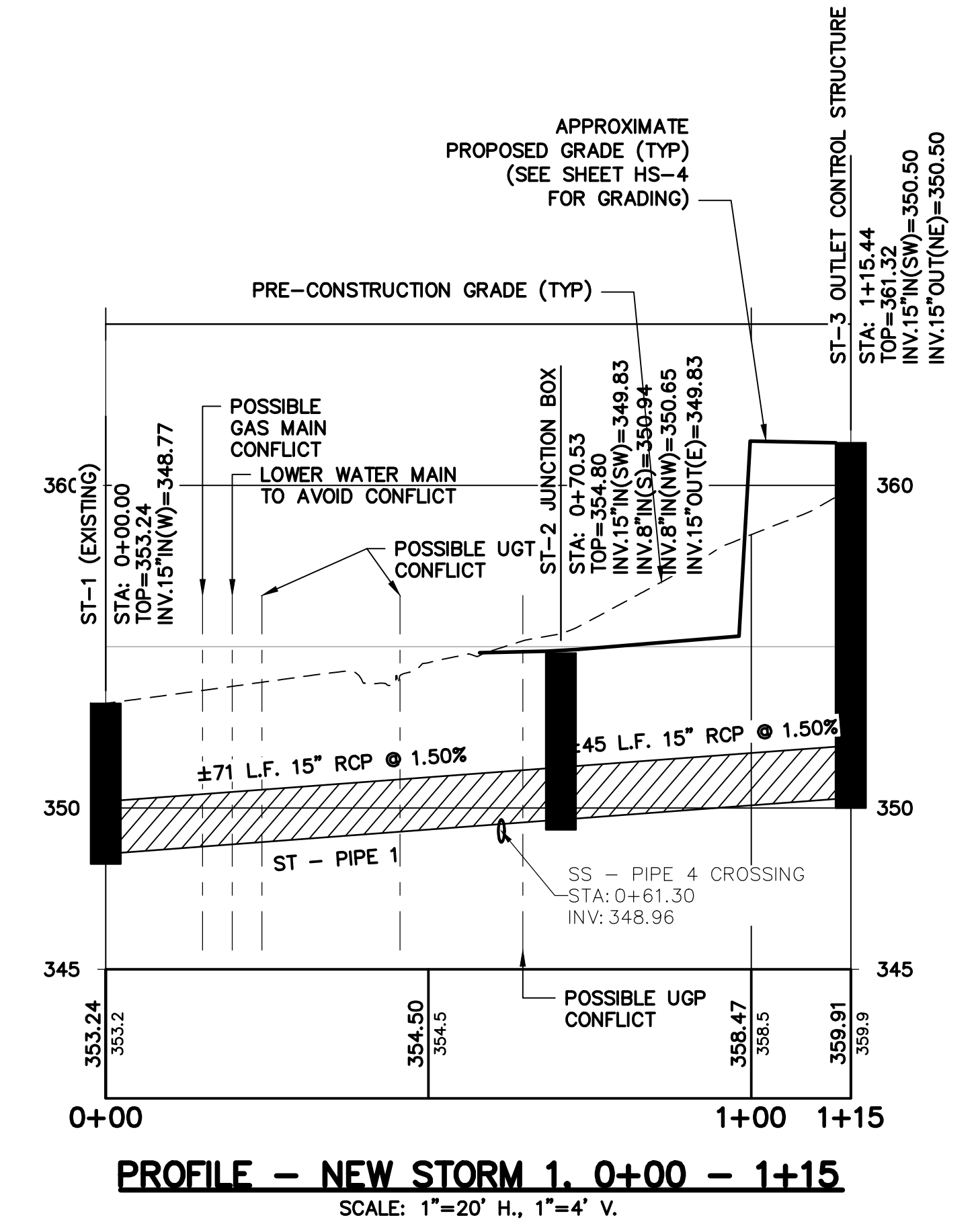
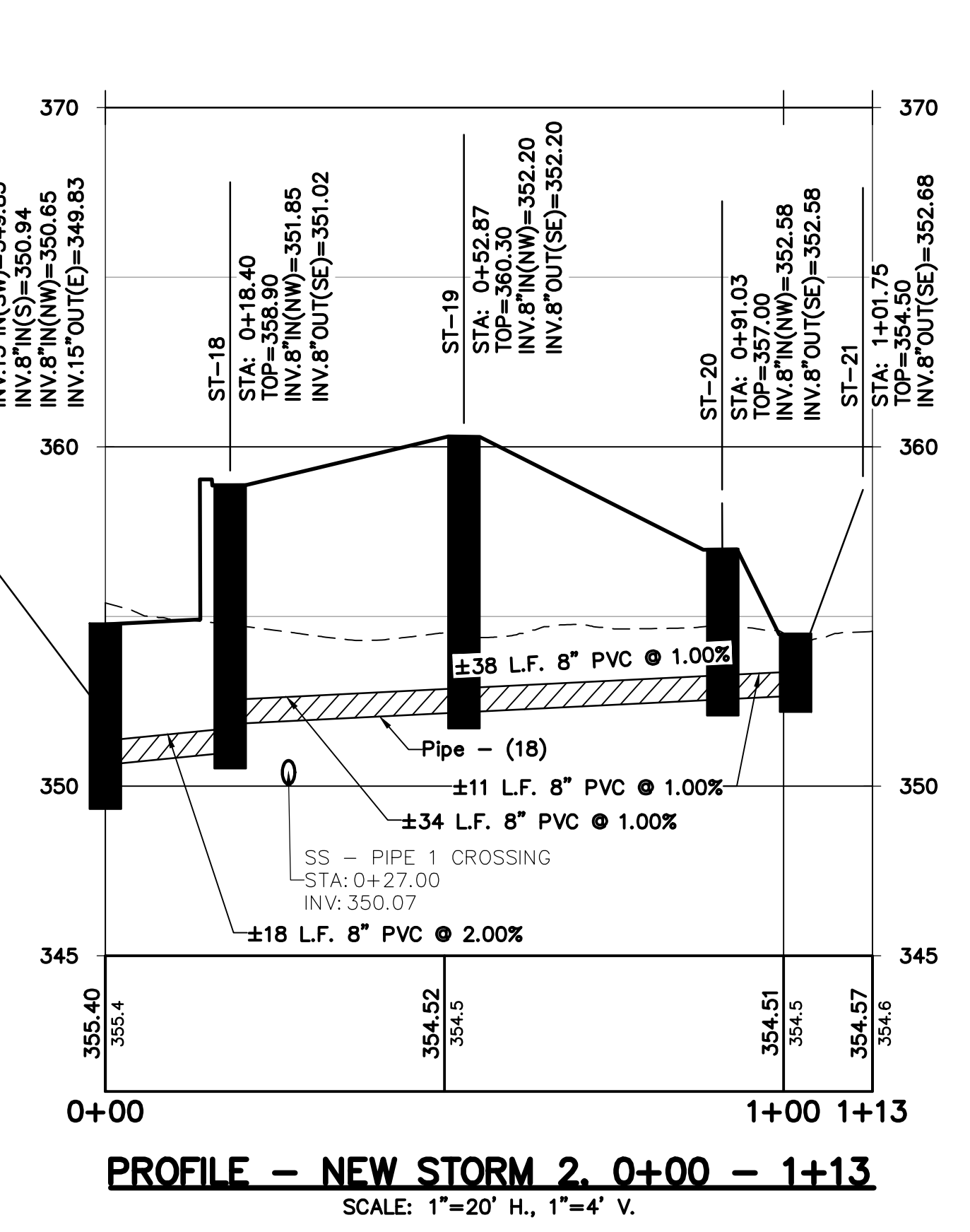
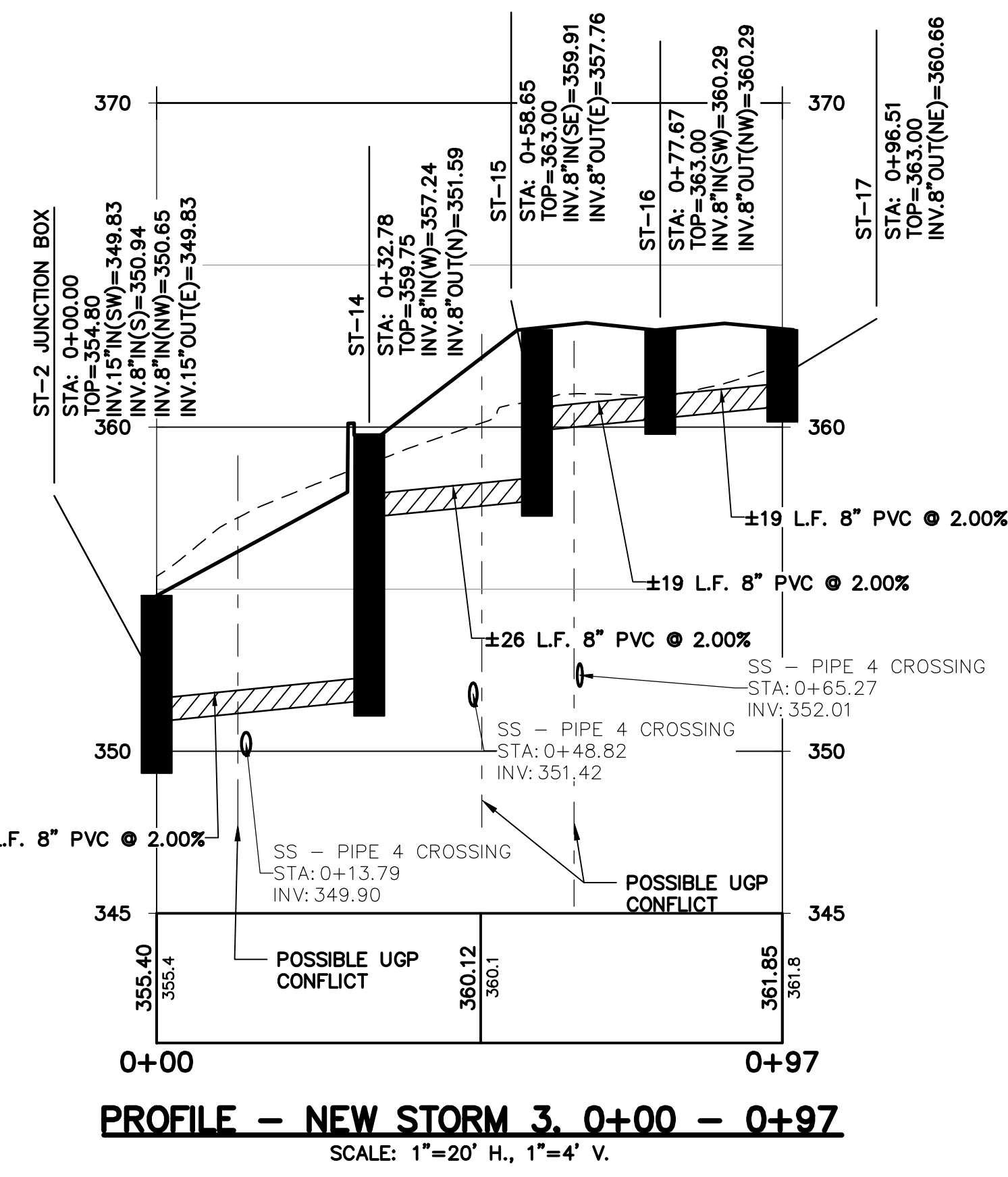
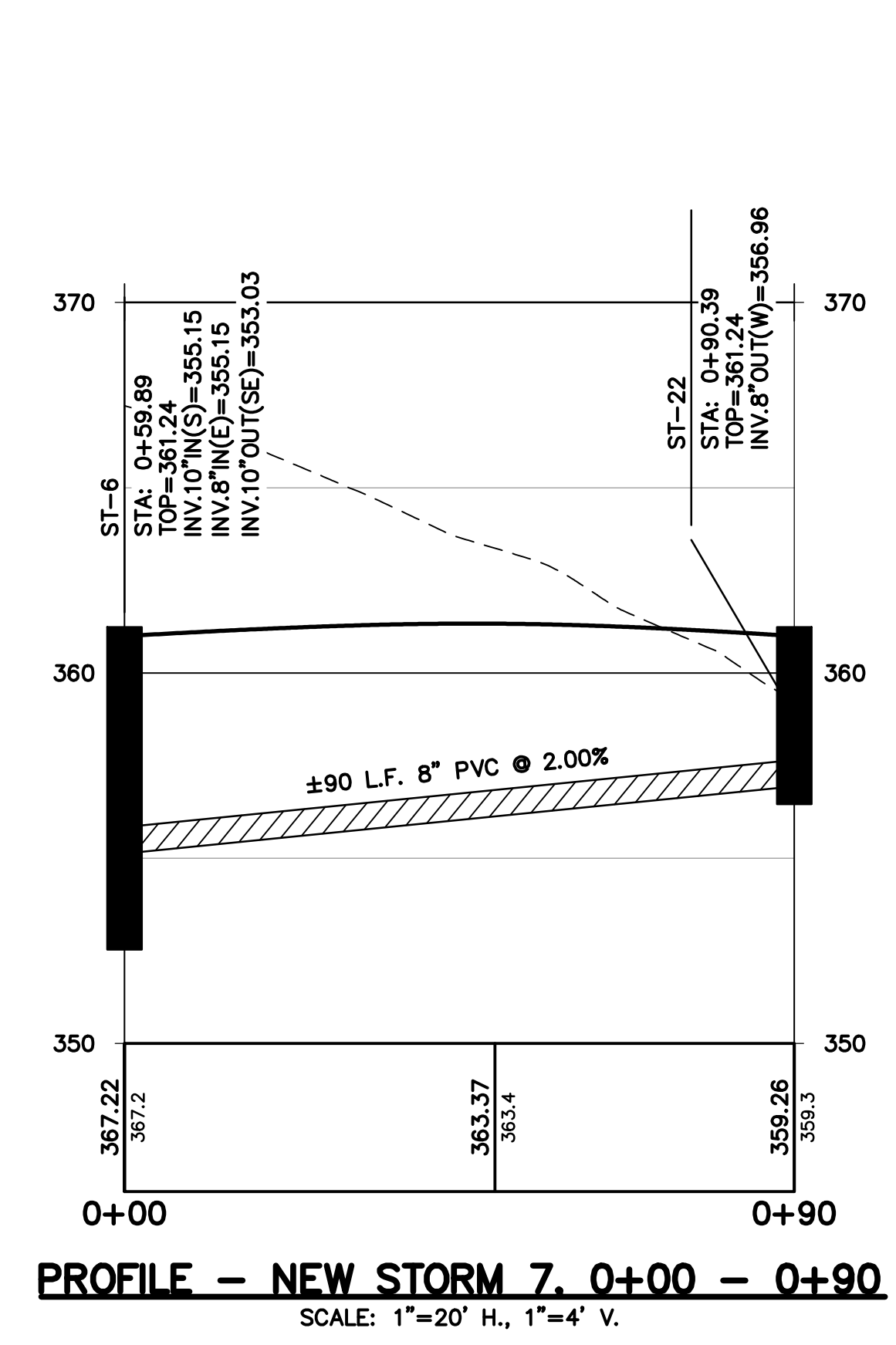
- GRADING & SITE NOTES:**
- ALL CURBS SHALL BE RESET USING THE ORIGINAL GRANITE CURBS. ALL CURBS SHALL BE SET AT 6" ABOVE THE STREET ELEVATION.
  - ALL SIDEWALKS SHALL HAVE A MAXIMUM OF 5% LONG SLOPE AND 2% CROSS SLOPE EXCEPT WHERE PHYSICALLY IMPOSSIBLE DUE TO THE SLOPE OF THE ADJACENT STREET.
  - SEE HARDSCAPE PLANS FOR BRICK PAVEMENT AND SIDEWALK PAVEMENT DESIGN & PATTERN DETAILS.
  - RETAINING WALL DESIGN BY OTHERS.
  - SEE HARDSCAPE PLANS SHEET HS-4 FOR DETAILED GRADING.
  - VERICORE MULTI-FLOW STRIP DRAIN SHALL BE 18" VARIANT.
  - SITE GRADING BY OTHERS.

STORM STRUCTURE DATA TABLE			
NAME	TYPE*	GRATE SIZE	BASIN SIZE
ST-1 (EXISTING)	EXISTING MANHOLE	NA	NA
ST-2 JUNCTION BOX	JUNCTION BOX (CIRCULAR)	NA	4' DIAM
ST-3 OUTLET CONTROL STRUCTURE	OUTLET CONTROL STRUCTURE	NA	4'x4'
ST-4 JUNCTION BOX	JUNCTION BOX (SQUARE)	NA	4'x4'
ST-5 JUNCTION BOX	JUNCTION BOX (SQUARE)	NA	4'x4'
ST-6	INLET NDS#20	8"	12"x12"
ST-7	INLET NDS#20	8"	12"x12"
ST-8 (18" GRATE)	INLET NDS#1881	18"	18"x18"
ST-9	INLET NDS#981	9"	12"x12"
ST-10	INLET NDS#20	8"	12"x12"
ST-11	INLET NDS#20	8"	12"x12"
ST-12	INLET NDS#20	8"	12"x12"
ST-13	INLET NDS#981	9"	12"x12"
ST-14	INLET NDS#981	9"	12"x12"
ST-15	INLET NDS#981	9"	12"x12"
ST-16	INLET NDS#981	9"	12"x12"
ST-17	INLET NDS#981	9"	12"x12"
ST-18	INLET NDS#981	9"	12"x12"
ST-19	INLET NDS#981	9"	12"x12"
ST-20	INLET NDS#981	9"	12"x12"
ST-21	INLET NDS#981	9"	12"x12"
ST-22	INLET NDS#20	8"	12"x12"

\*SEE ARCHITECTURAL FOR INLET TYPE DETAILS

**811**  
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### PROJECT INFORMATION

ENGINEERED PRODUCT MANAGER	
ADS SALES REP	
PROJECT NO.	

**ADS**  
Advanced Drainage Systems, Inc.

**SiteASSIST**  
FOR STORMTECH  
INSTRUCTIONS  
DOWNLOAD THE  
INSTALLATION APP

## HGO 005 - ROSA PARKS

### MACON, GA

#### MC-3500 STORMTECH CHAMBER SPECIFICATIONS

- CHAMBERS SHALL BE STORMTECH MC-3500.
- CHAMBERS SHALL BE ARCH-SHAPED AND SHALL BE MANUFACTURED FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE COPOLYMERS.
- CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418-16a, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" CHAMBER CLASSIFICATION 45/78 DESIGNATION SS.
- CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORTS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
- THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
- CHAMBERS SHALL BE DESIGNED, TESTED AND ALLOWABLE LOAD CONFIGURATIONS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". LOAD CONFIGURATIONS SHALL INCLUDE: 1) INSTANTANEOUS (1 MIN) AASHTO DESIGN TRUCK LIVE LOAD ON MINIMUM COVER 2) MAXIMUM PERMANENT (75-YR) COVER LOAD AND 3) ALLOWABLE COVER WITH PARKED (1 WEEK) AASHTO DESIGN TRUCK.
- REQUIREMENTS FOR HANDLING AND INSTALLATION:
  - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
  - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 3".
  - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 6.2.8 OF ASTM F2418 SHALL BE GREATER THAN OR EQUAL TO 500 LBS/INCH, AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73 F / 23 C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.
- ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. UPON REQUEST BY THE SITE DESIGN ENGINEER OR OWNER, THE CHAMBER MANUFACTURER SHALL SUBMIT A STRUCTURAL EVALUATION FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE AS FOLLOWS:
  - THE STRUCTURAL EVALUATION SHALL BE SIGNED BY A REGISTERED PROFESSIONAL ENGINEER.
  - THE STRUCTURAL EVALUATION SHALL DEMONSTRATE THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY SECTIONS 3 AND 12.12 OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS FOR THERMOPLASTIC PIPE.
  - THE TEST DERIVED CREEP MODULUS AS SPECIFIED IN ASTM F2418 SHALL BE USED FOR PERMANENT DEAD LOAD DESIGN EXCEPT THAT IT SHALL BE THE 75-YEAR MODULUS USED FOR DESIGN.
- CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.

#### IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF MC-3500 CHAMBER SYSTEM

- STORMTECH MC-3500 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
- STORMTECH MC-3500 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
- CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR AN EXCAVATOR SITUATED OVER THE CHAMBERS. STORMTECH RECOMMENDS 3 BACKFILL METHODS:
  - STONE/ROCK, LOCATED OFF THE CHAMBER BED.
  - BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.
  - BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HCC OR EXCAVATOR.
- THE FOUNDATION STONE SHALL BE LEVELLED AND COMPACTED PRIOR TO PLACING CHAMBERS.
- JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
- MAINTAIN MINIMUM 6" (150 mm) SPACING BETWEEN THE CHAMBER ROWS.
- INLET AND OUTLET MANIFOLDS MUST BE INSERTED A MINIMUM OF 12" (300 mm) INTO CHAMBER END CAPS.
- EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE MEETING THE AASHTO M43 DESIGNATION OF #3 OR #4.
- STONE MUST BE PLACED ON THE TOP CENTER OF THE CHAMBER TO ANCHOR THE CHAMBERS IN PLACE AND PRESERVE ROW SPACING.
- THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE SITE DESIGN ENGINEER.
- ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

#### NOTES FOR CONSTRUCTION EQUIPMENT

- STORMTECH MC-3500 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
- THE USE OF EQUIPMENT OVER MC-3500 CHAMBERS IS LIMITED:
  - NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
  - NO RUBBER Tired LOADER, DUMP TRUCK, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
  - WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
- FULL 36" (900 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING.

**USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY USING THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD WARRANTY.**

CONTACT STORMTECH AT 1-888-892-2884 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.

PROPOSED LAYOUT		PROPOSED ELEVATIONS		PART TYPE		ITEM ON LAYOUT		DESCRIPTION		*INVERT ABOVE BASE OF CHAMBER	
NO.	DESCRIPTION	MAXIMUM ALLOWABLE GRADE (TOP OF INVERT/UNPAVED)	MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC)	NO.	DESCRIPTION	INVERT	MAX FLOW				
31	STORMTECH MC-3500 CHAMBERS			363	PREFABRICATED END CAP	A		24" BOTTOM CORED END CAP, PART# MC3500EP24BC / TYP OF ALL 24" BOTTOM CONNECTIONS AND ISOLATOR PLUS ROWS			
8	STORMTECH MC-3500 END CAPS			367	PREFABRICATED END CAP	A		24" TOP CORED END CAP, PART# MC3500EP24TC / TYP OF ALL 24" TOP CONNECTIONS			
17	STONE ABOVE (ft)			368	PREFABRICATED END CAP	B		24" TOP CORED END CAP, PART# MC3500EP24TC / TYP OF ALL 24" TOP CONNECTIONS			
19	STONE BELOW (ft)			369	PREFABRICATED END CAP	B		24" TOP CORED END CAP, PART# MC3500EP24TC / TYP OF ALL 24" TOP CONNECTIONS			
40	STONE VENEER			370	PREFABRICATED END CAP	B		24" TOP CORED END CAP, PART# MC3500EP24TC / TYP OF ALL 24" TOP CONNECTIONS			
6423	INSTALLED SYSTEM VOLUME (CF)			371	MANIFOLD	C		24" TOP CORED END CAP, PART# MC3500EP24TC / TYP OF ALL 24" TOP CONNECTIONS			
1957	PERIMETER STONE INCLUDED (COVER STONE INCLUDED)			372	MANIFOLD	C		24" TOP CORED END CAP, PART# MC3500EP24TC / TYP OF ALL 24" TOP CONNECTIONS			
1947	SYSTEM PERIMETER (ft)			373	MANIFOLD	C		24" TOP CORED END CAP, PART# MC3500EP24TC / TYP OF ALL 24" TOP CONNECTIONS			
				374	CONCRETE STRUCTURE	E		DESIGN BY ENGINEER / PROVIDED BY OTHERS			
				375	CONCRETE STRUCTURE	F		DESIGN BY ENGINEER / PROVIDED BY OTHERS			
				376	UNDERDRAIN	G		1" ADS N-12 DUAL WALL PERFORATED HDPE UNDERDRAIN			
				377	UNDERDRAIN	G		1" ADS N-12 DUAL WALL PERFORATED HDPE UNDERDRAIN			
				380	BOTTOM OF STONE						

#### NOTES

- MINIMUM SIZE TO BE DETERMINED BY SITE DESIGN ENGINEER. SEE TECH NOTE #632 FOR MANIFOLD SIZING GUIDANCE.
- DO NOT ADJUST GRADE TO ENSURE THE CHAMBER COVER REQUIREMENTS ARE MET.
- THIS CHAMBER SYSTEM WAS DESIGNED WITHOUT SITE-SPECIFIC INFORMATION ON SOIL CONDITIONS OR BEARING CAPACITY. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR THE SUITABILITY OF THE SOIL AND PROVIDING THE BEARING CAPACITY OF THE IN-SITU SOILS. THE BASE STONE DEPTH MAY BE INCREASED OR DECREASED ONCE THIS INFORMATION IS PROVIDED.
- NOT FOR CONSTRUCTION:** THIS LAYOUT IS FOR DIMENSIONAL PURPOSES ONLY TO PROVE CONCEPT & THE REQUIRED STORAGE VOLUME CAN BE ACHIEVED ON SITE.

### ACCEPTABLE FILL MATERIALS: STORMTECH MC-3500 CHAMBER SYSTEMS

MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
<b>D FINAL FILL:</b> FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER.	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
<b>C INITIAL FILL:</b> FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE (LAYER 'B') TO 24" ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <3% FINES OR PROCESSED AGGREGATE.	AASHTO M45 A-1, A-2.4, A-3 OR AASHTO M47 3, 3.97, 4, 4.67, 5, 5.6, 5.7, 6, 6.7, 6.8, 7, 7.8, 8, 8.9, 9, 10	BEGIN COMPACTIONS AFTER 24" (600 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 12" (300 mm) MAX LIFTS TO A MIN. 98% PROCTOR DENSITY FOR WELL-GRADED MATERIAL, AND 98% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS.
<b>B EMBEDMENT STONE:</b> FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE (A LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43 3, 4	NO COMPACTION REQUIRED.
<b>A FOUNDATION STONE:</b> FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43 3, 4	FLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. <sup>1,2</sup>

PLEASE NOTE:  
1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".  
2. STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (200 mm) MAX LIFTS USING TWO FULL COVERS WITH A VIBRATORY COMPACTOR.  
3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.  
4. ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.

#### INSPECTION & MAINTENANCE

**STEP 1) INSPECT ISOLATOR ROW PLUS FOR SEDIMENT**

A.1. REMOVE OPEN LID ON INLET/OUTLET INLINE DRAIN

A.2. REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED

A.3. USING A FLASHLIGHT AND STADIUM ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG

A.4. LOWER A CAMERA INTO ISOLATOR ROW PLUS FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)

A.5. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.

B. ALL ISOLATOR ROW PLUS

B.1. REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW PLUS

B.2. USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW PLUS THROUGH OUTLET PIPE

B.3. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.

#### NOTES

- INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
- CONDUCT JETTING AND VACUUMING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.

#### NOTES:

- CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418-16a, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" CHAMBER CLASSIFICATION 45/78 DESIGNATION SS.
- MC-3500 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
- PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.

#### REQUIREMENTS FOR HANDLING AND INSTALLATION:

- TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
- TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 3".
- TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 6.2.8 OF ASTM F2418 SHALL BE GREATER THAN OR EQUAL TO 500 LBS/INCH, AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73 F / 23 C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.

#### INSPECTION & MAINTENANCE

**STEP 1) INSPECT ISOLATOR ROW PLUS FOR SEDIMENT**

A.1. REMOVE OPEN LID ON INLET/OUTLET INLINE DRAIN

A.2. REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED

A.3. USING A FLASHLIGHT AND STADIUM ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG

A.4. LOWER A CAMERA INTO ISOLATOR ROW PLUS FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)

A.5. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.

B. ALL ISOLATOR ROW PLUS

B.1. REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW PLUS

B.2. USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW PLUS THROUGH OUTLET PIPE

B.3. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.

#### NOTES

- INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
- CONDUCT JETTING AND VACUUMING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.

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CONSULTANT LOGO:

CONSULTANT INFORMATION:  
PROJECT TITLE:  
**ROSA PARKS SQUARE RENOVATION PROJECT**  
POPLAR STREET  
MACON, GEORGIA  
MACON-BIBB COUNTY  
MACON, GEORGIA

PROJECT NO:  
**21026**

PRINCIPAL IN CHARGE: TF  
PROJECT ARCHITECT:  
DRAWN BY: MW

ISSUE AND DATE:  
MARCH 26th, 2024

CONSTRUCTION DOCUMENTS  
ALTERNATE SCOPE

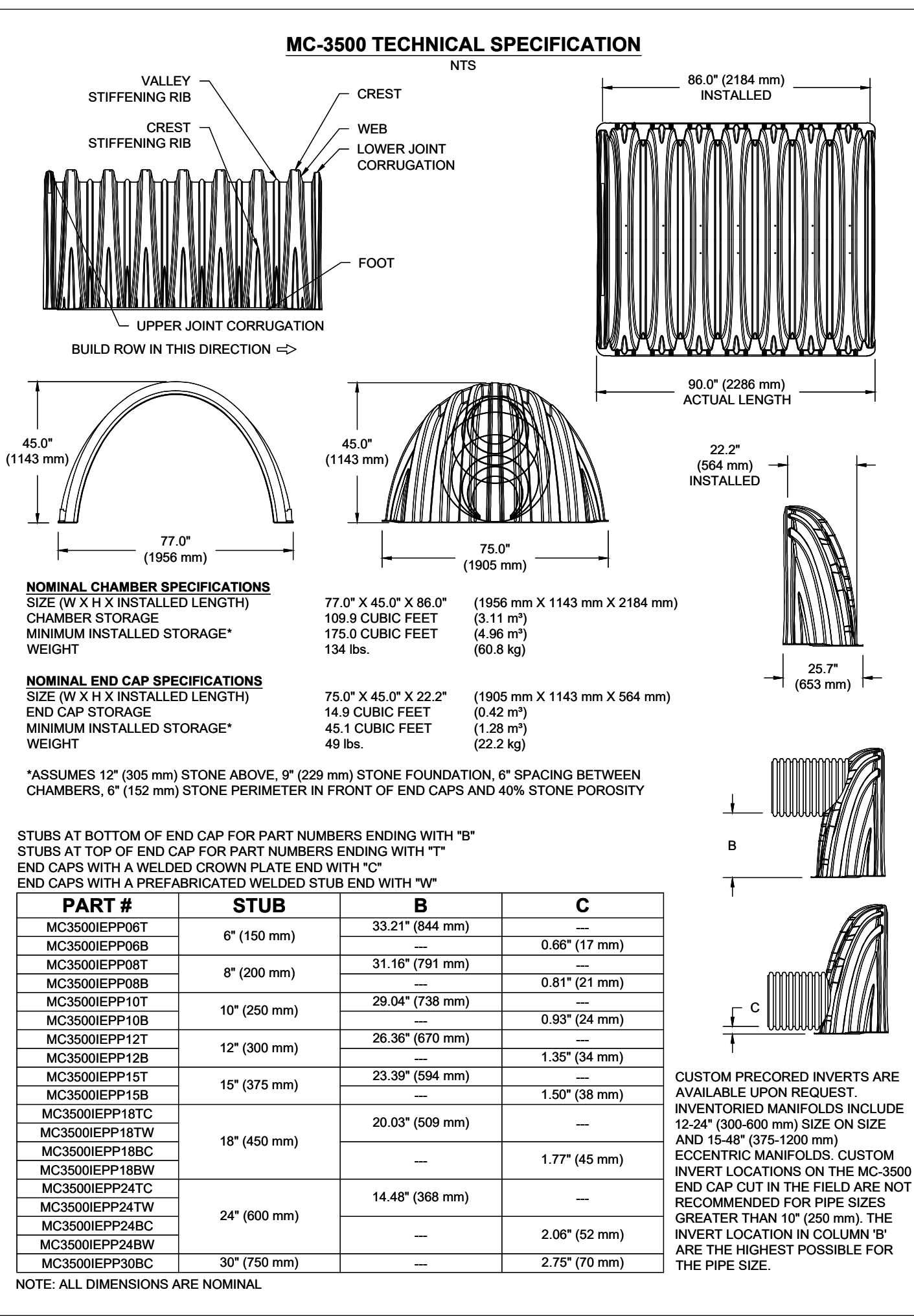
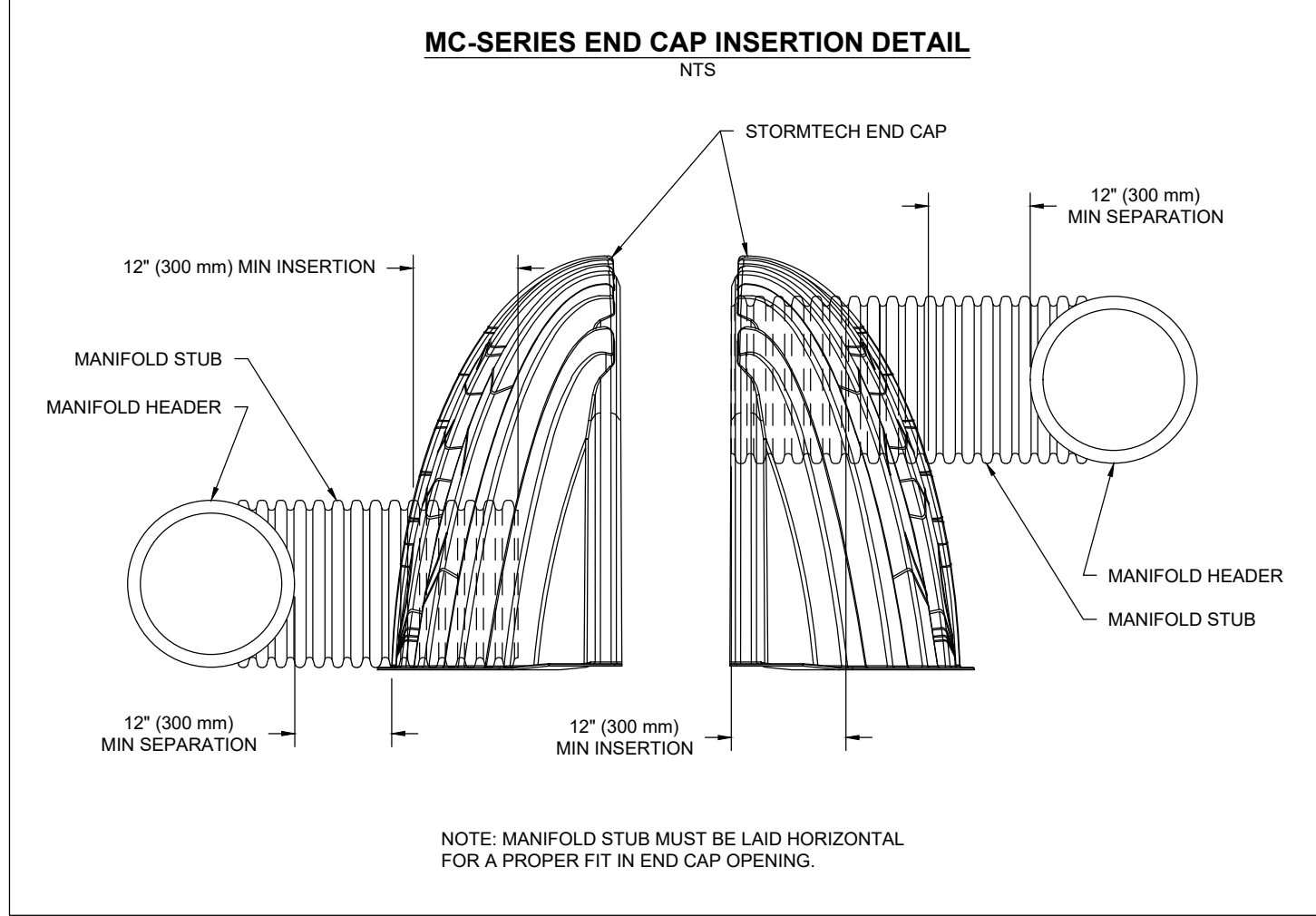
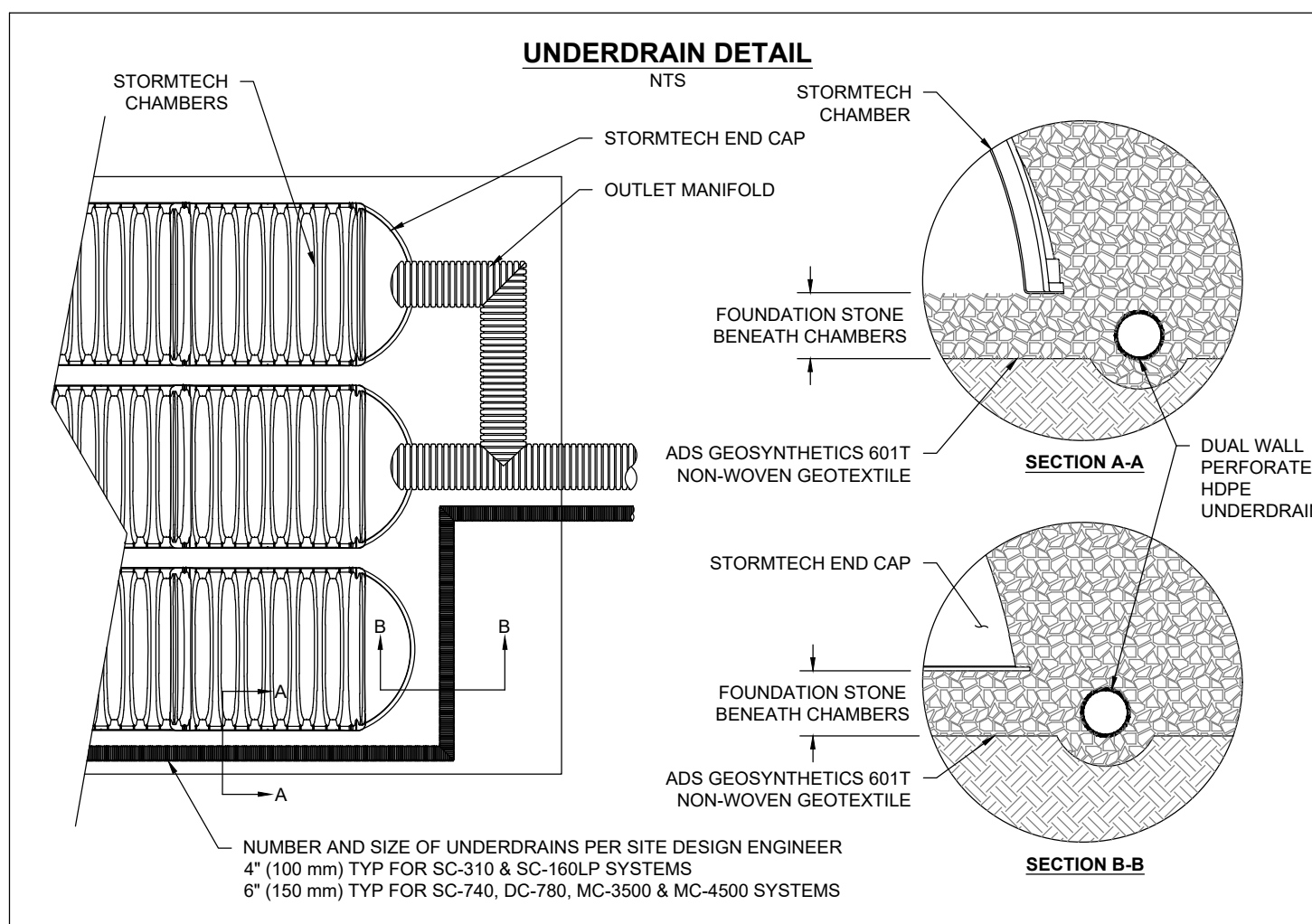
REVISIONS:  
NO. DATE DESCRIPTION

SEAL:

SHEET TITLE: UNDERGROUND DETENTION DESIGN PLAN

SHEET NO:  
**C-4.2**

RELEASED FOR CONSTRUCTION



DESCRIPTION: HGO 005 - ROSA PARKS MACON, GA

DATE: [REDACTED] DRAWN BY: [REDACTED]

PROJECT # [REDACTED] CHECKED BY: [REDACTED]

REV: [REDACTED] CHK: [REDACTED]

StormTech Chamber System

4640 TRULAMAN BLVD  
WILMINGTON, OH 43081  
(614) 763-7474

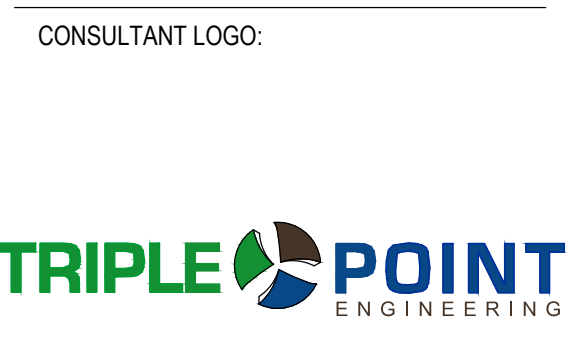
ADSS

SHEET 5 OF 5

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Atlanta, Georgia 30306  
www.hgor.com  
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f. 404-248-1092



CONSULTANT INFORMATION:

PROJECT TITLE:

**ROSA PARKS SQUARE  
RENOVATION PROJECT**  
POPLAR STREET  
MACON, GEORGIA  
MACON-BIBB COUNTY  
MACON, GEORGIA

PROJECT NO:  
**21026**

PRINCIPAL IN CHARGE: TF  
PROJECT ARCHITECT:  
DRAWN BY: MW

ISSUE AND DATE:  
MARCH 26th, 2024

CONSTRUCTION DOCUMENTS  
ALTERNATE SCOPE

REVISIONS:

NO.	DATE	DESCRIPTION

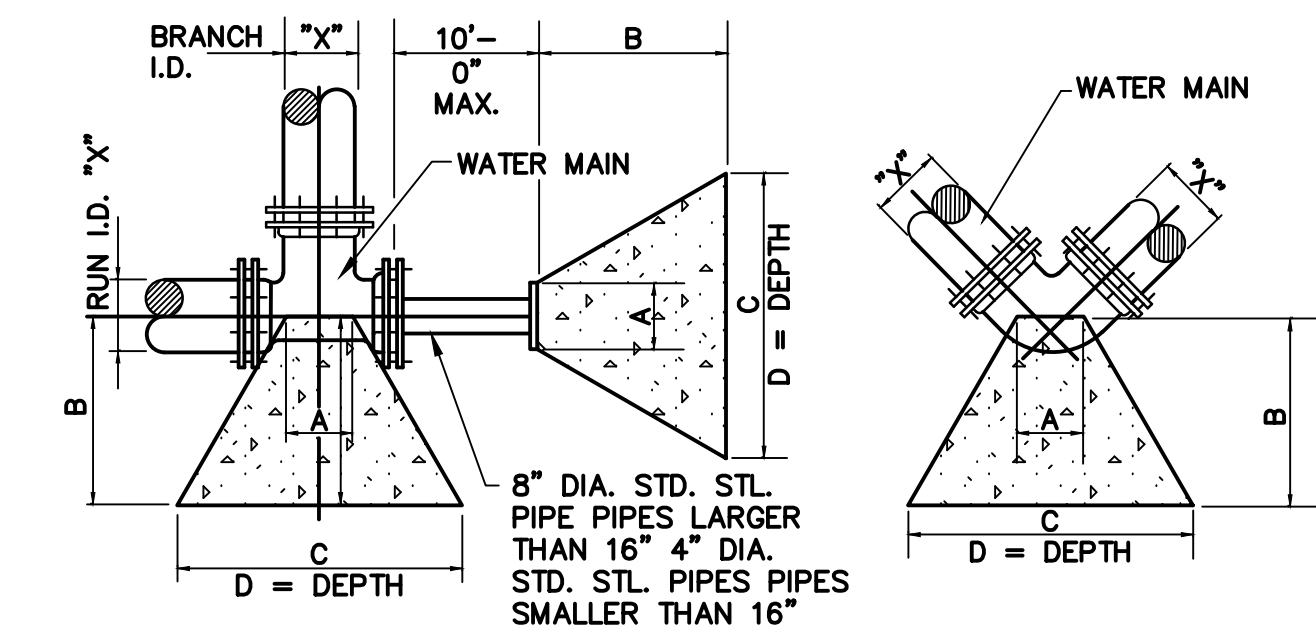
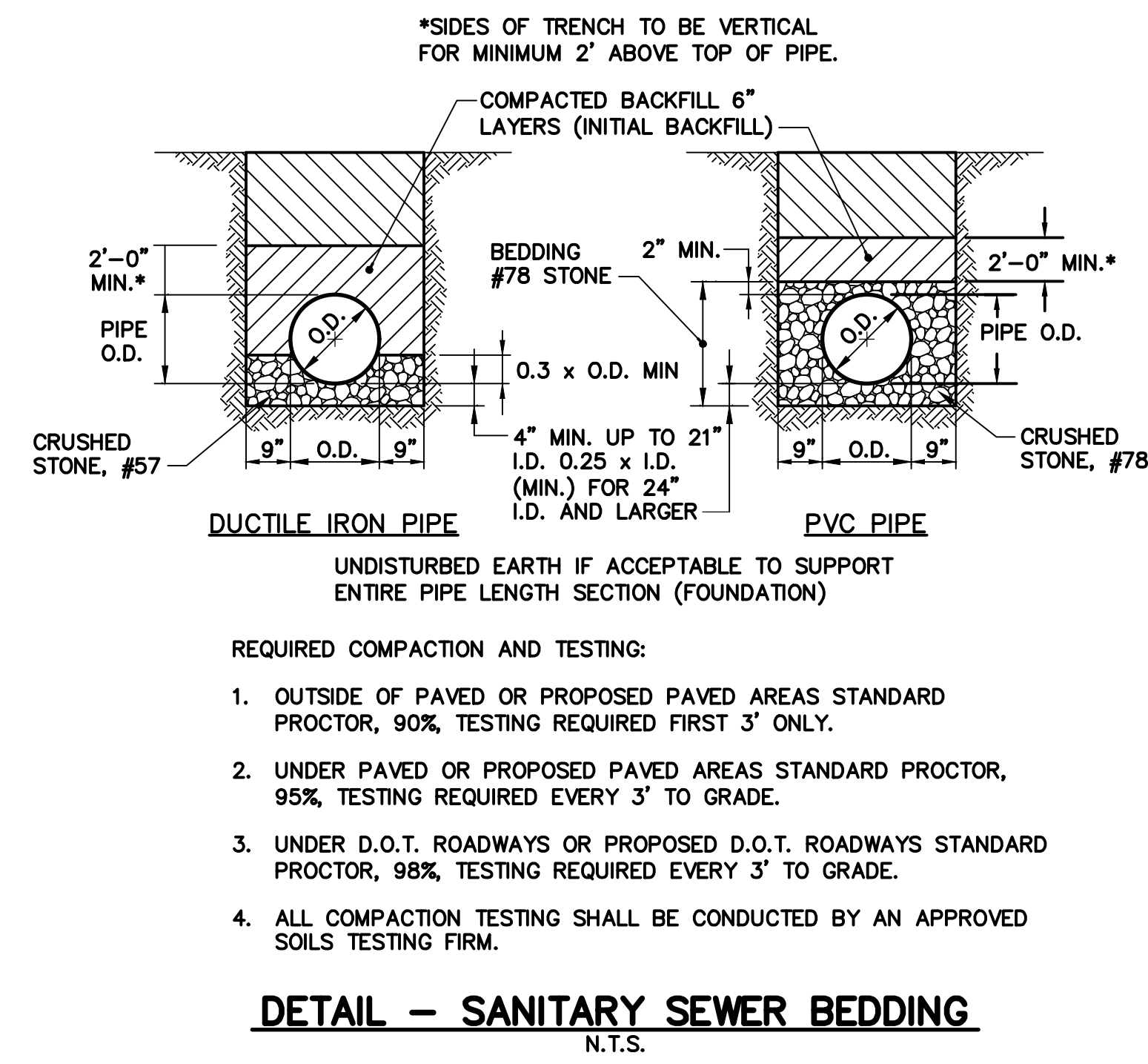
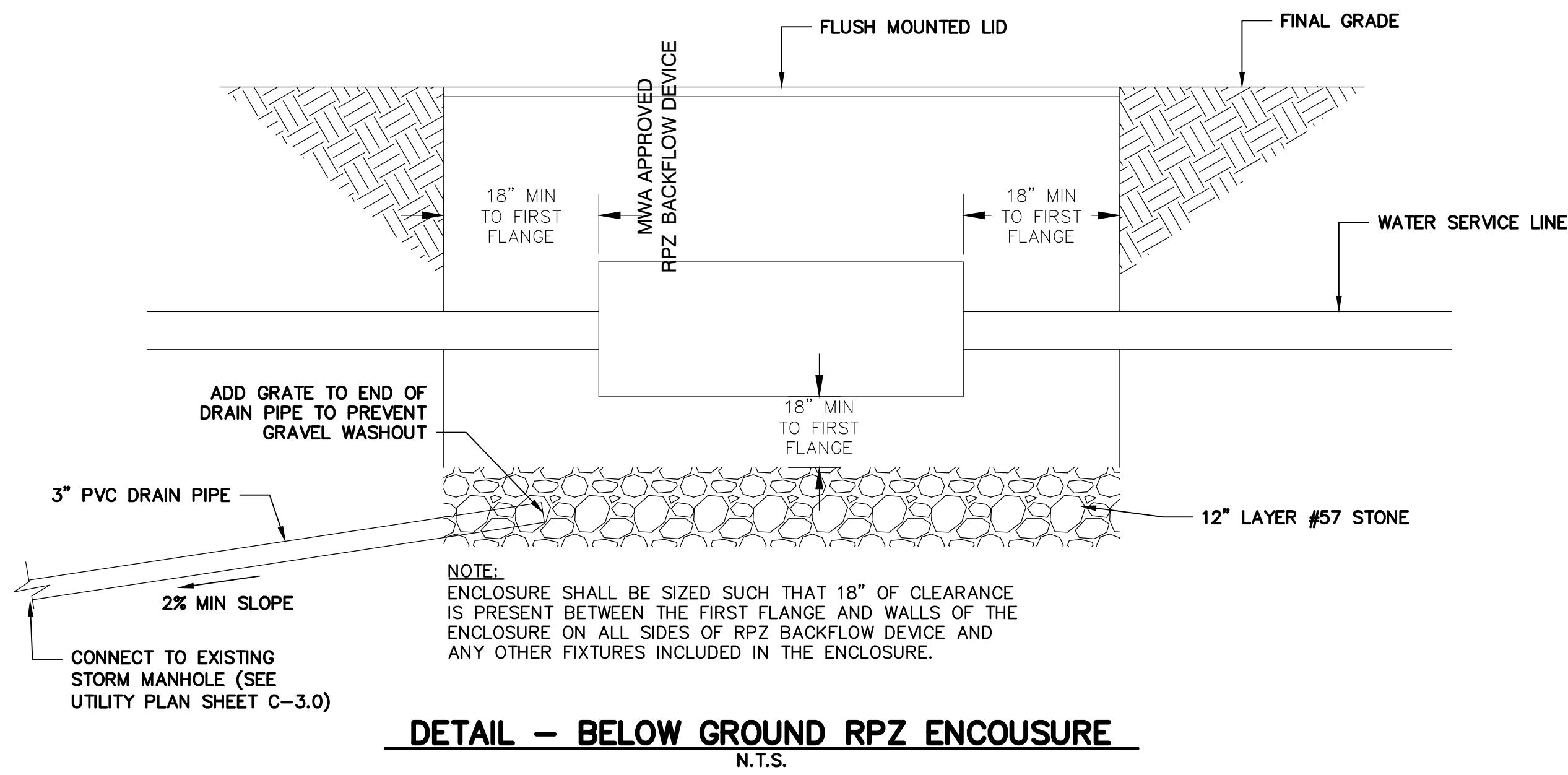
SEAL:

REGISTERED PROFESSIONAL ENGINEER  
DANIEL TAYLOR  
10/06/2021

SHEET TITLE: UNDERGROUND DETENTION DESIGN PLAN

SHEET NO:  
**C-4.3**

RELEASED FOR CONSTRUCTION



BLOCKING DIMENSIONS

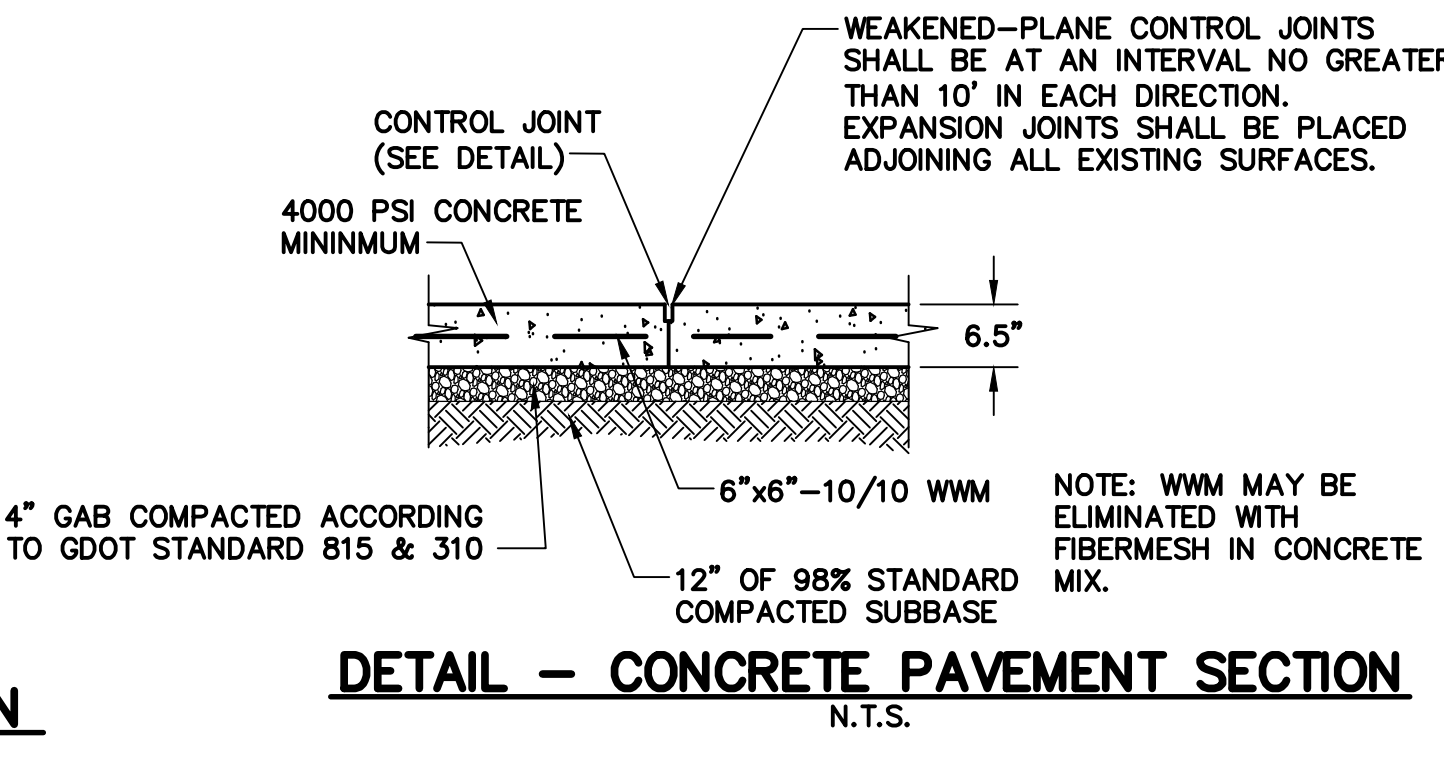
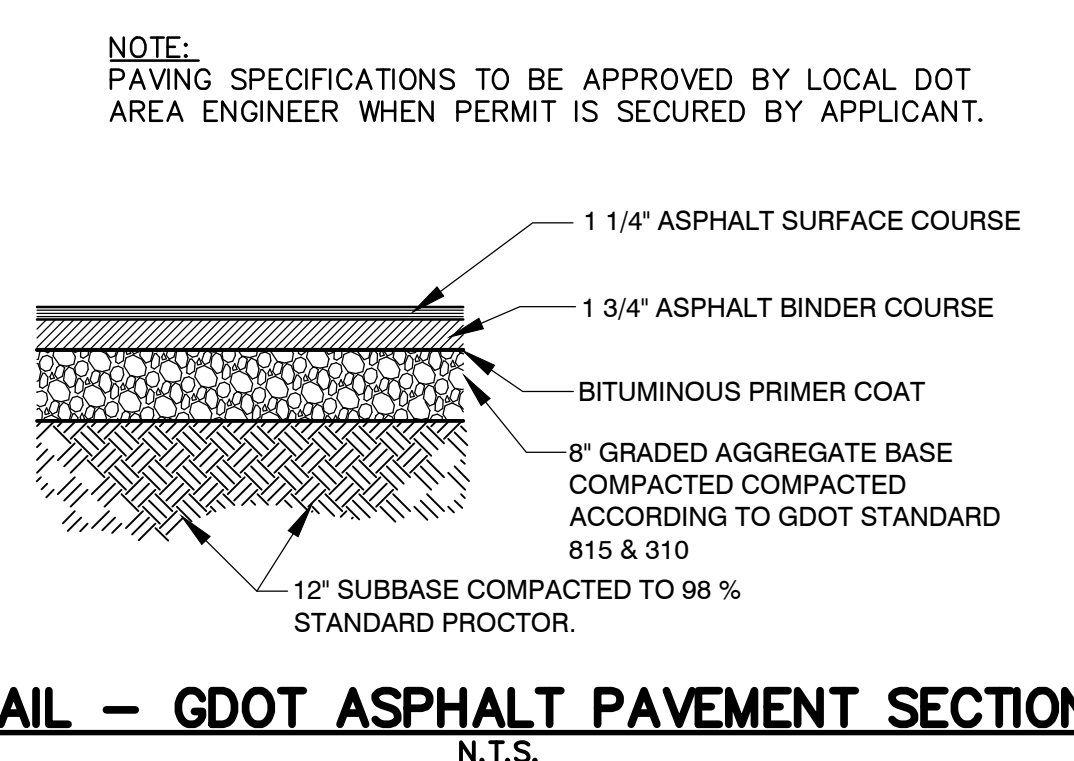
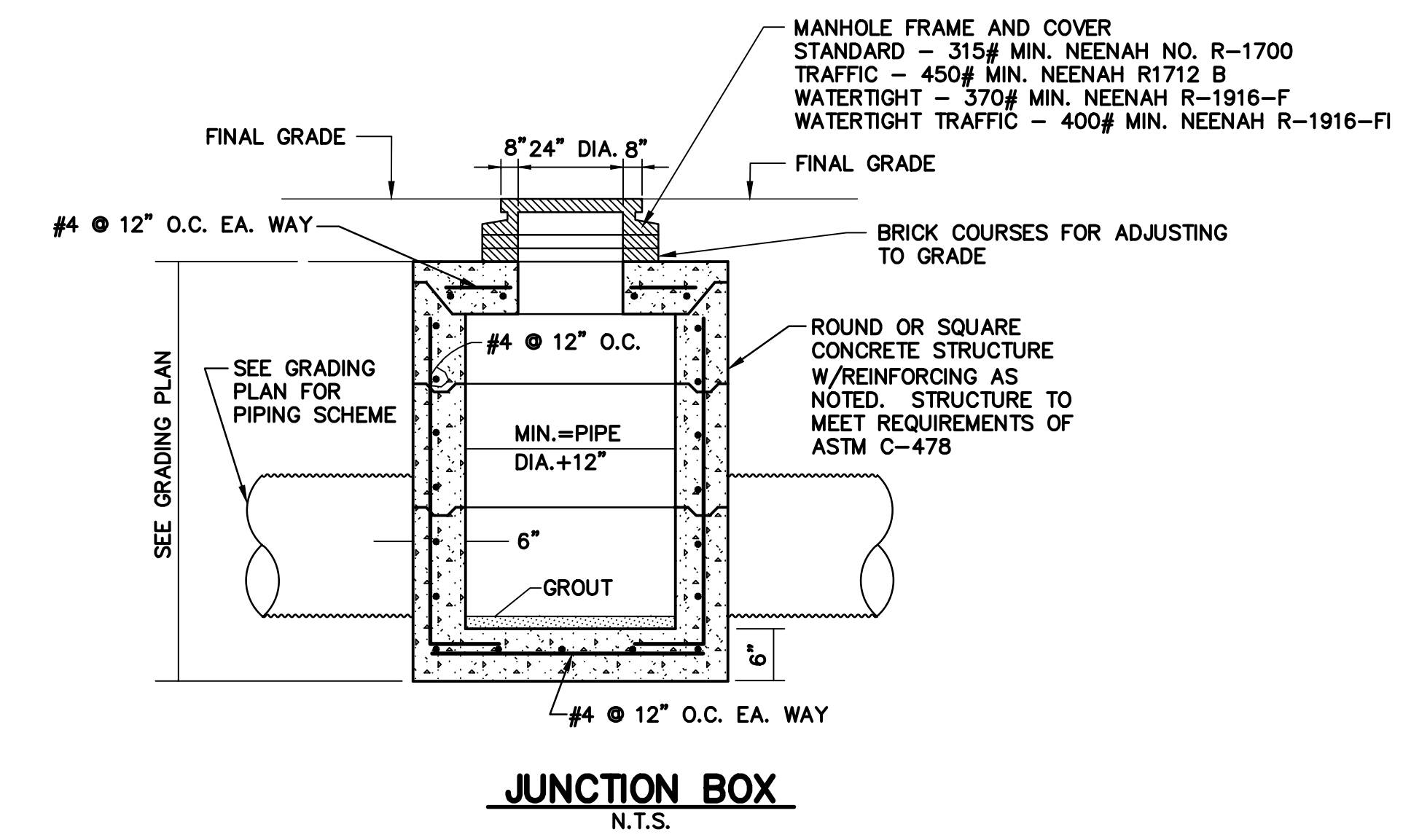
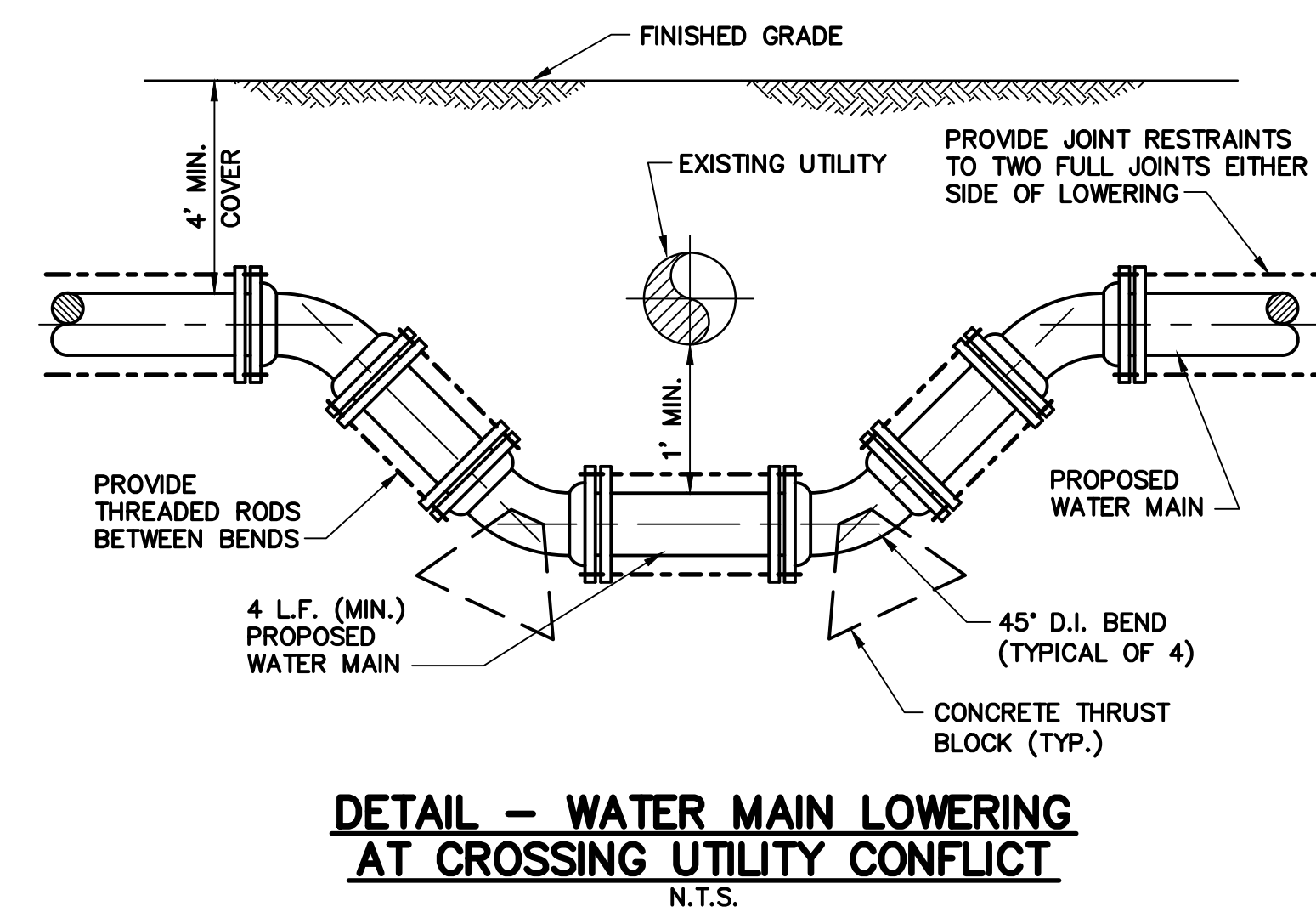
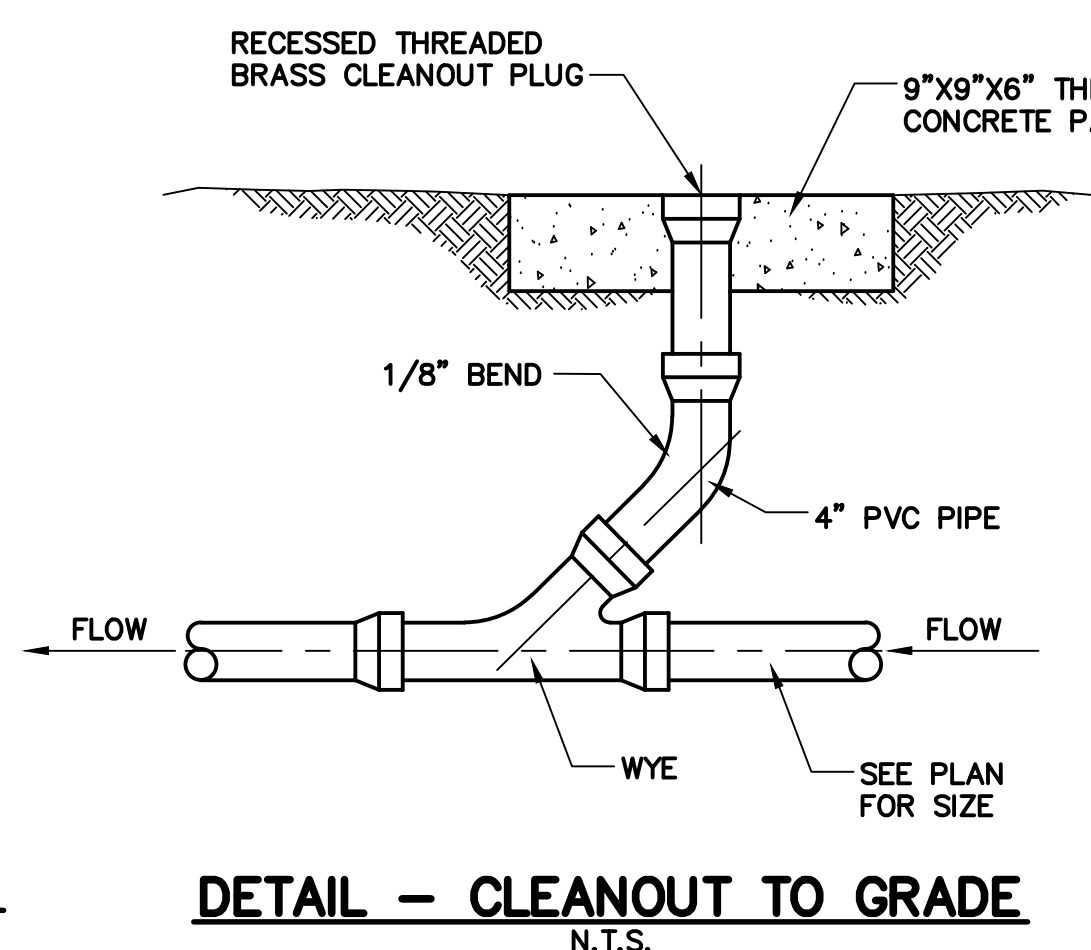
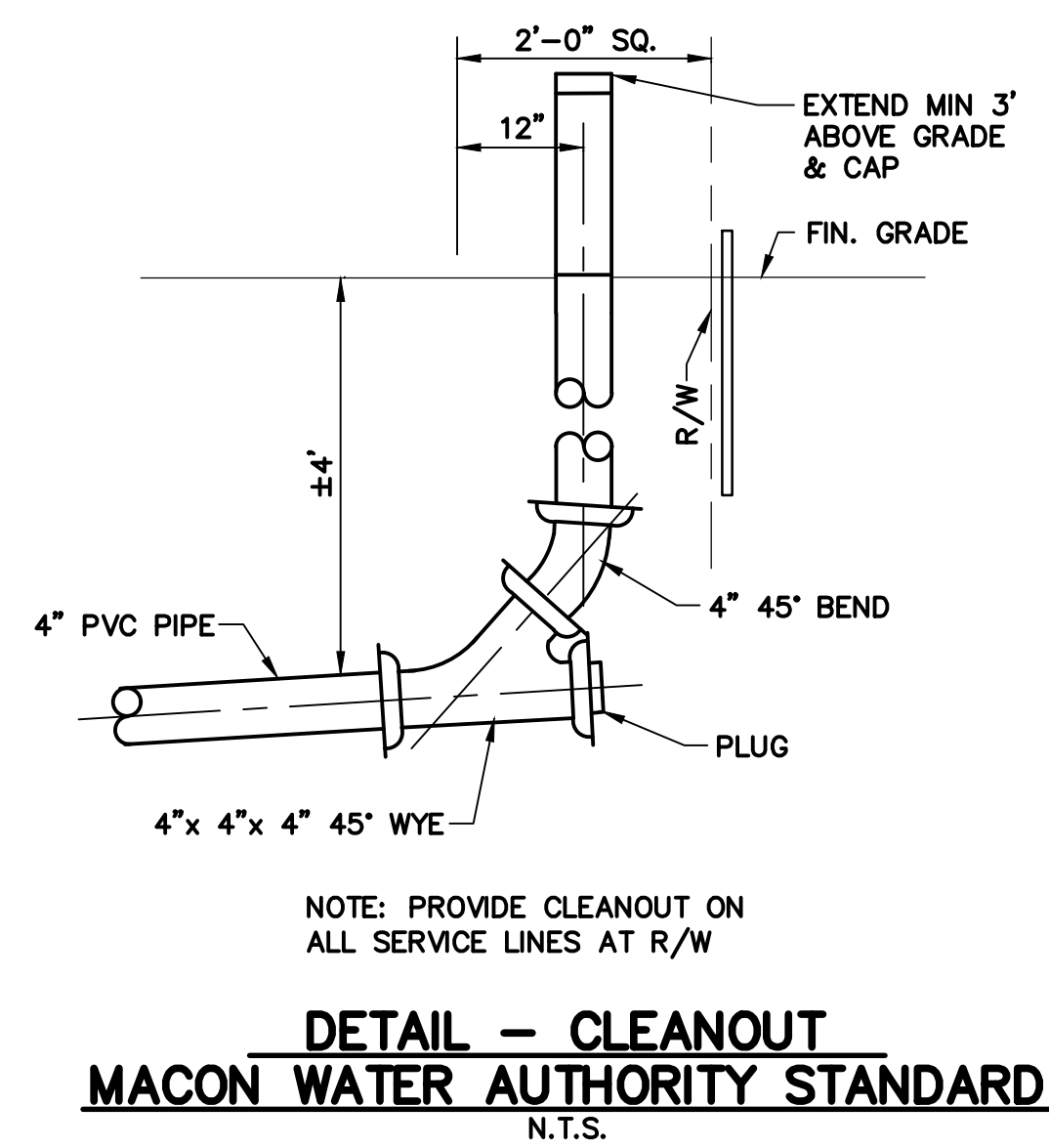
BENDS

BEND	X				C			
	A	B	C	D	A	B	C	D
45° BEND	4"	6"	8"	1'-2"	4"	6"	8"	1'-0"
90° BEND	6"	8"	1'-2"	1'-10"	6"	8"	1'-0"	1'-0"
120° BEND	8"	9"	1'-6"	2'-4"	8"	9"	1'-4"	1'-4"
150° BEND	10"	11"	1'-10"	3'-0"	10"	11"	1'-8"	1'-8"
180° BEND	12"	12"	2'-2"	3'-6"	12"	12"	1'-10"	1'-10"

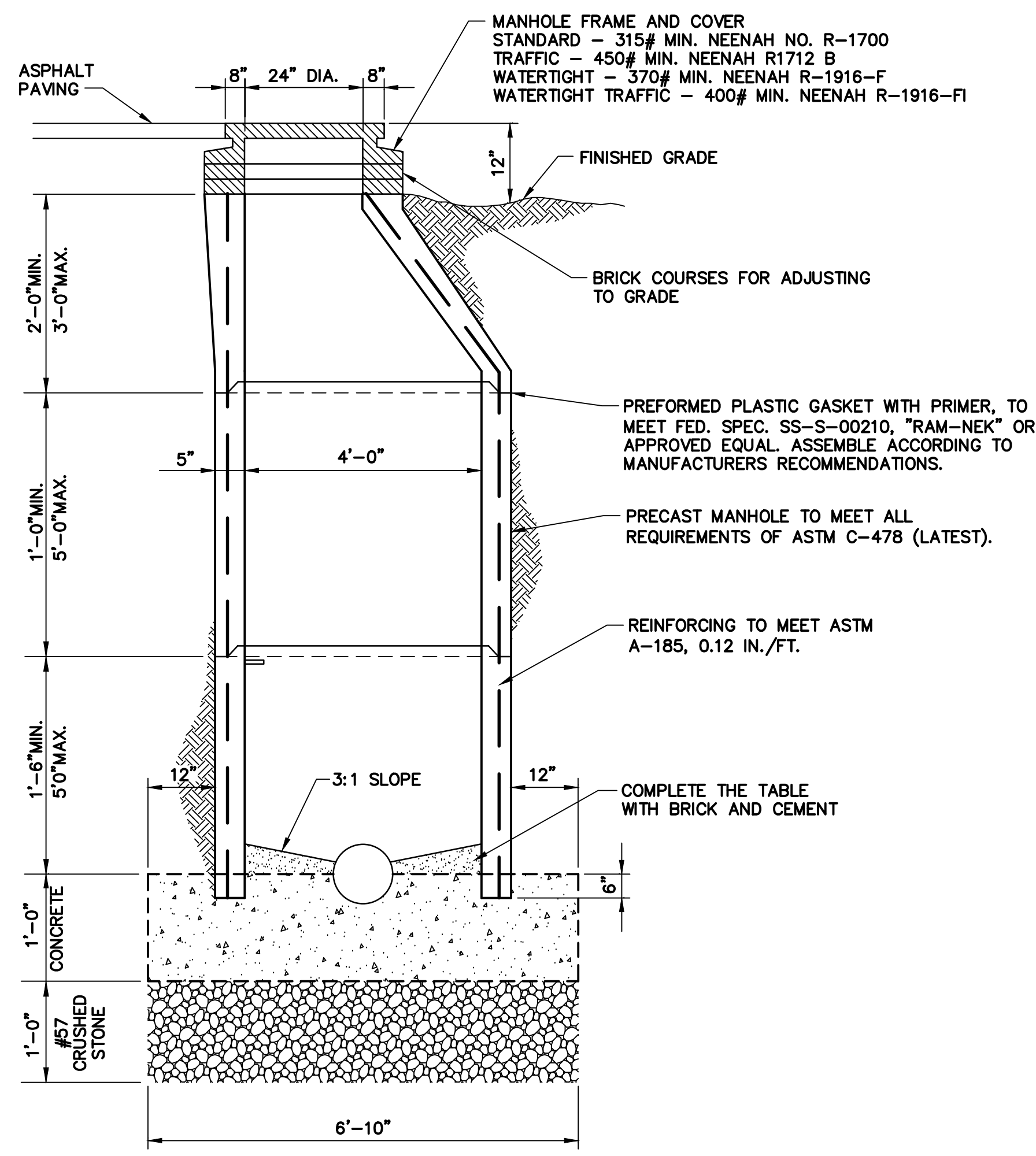
TEES & DEAD ENDS

X	C			
	A	B	C	D
4"	6"	8"	1'-0"	1'-0"
6"	8"	10"	1'-6"	1'-6"
8"	9"	1'-0"	2'-0"	2'-0"
10"	11"	1'-6"	2'-6"	2'-6"
12"	12"	1'-10"	3'-0"	3'-0"

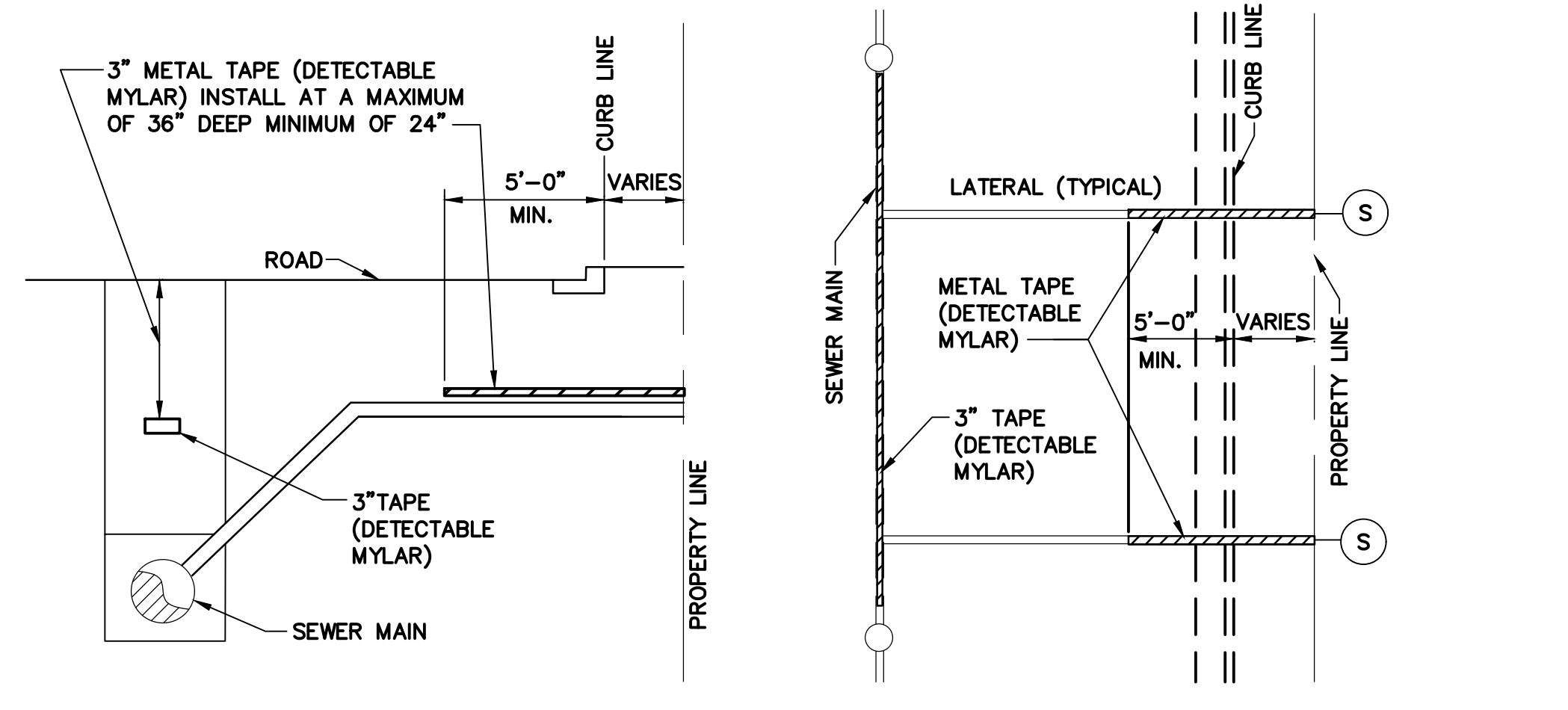
NOTE: 150 P.S.I. TEST PRESSURE SOIL BEARING OF 2000 P.S.F. 3000 P.S.I. CONCRETE.  
 ALL C AND D'S HAVE MIN. OF 1'-0"



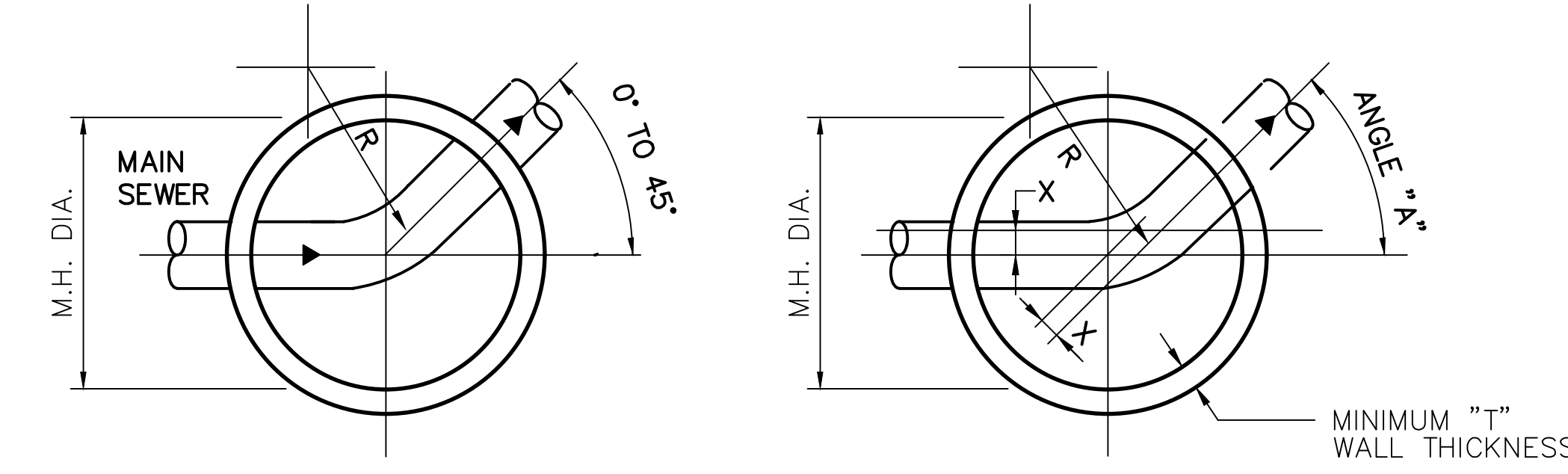
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 File located in P:\HGO\_005 - Rosa Parks Square Drawings\5.0 SITE DETAILS.dwg



**DETAIL - DOGHOUSE MANHOLE**  
**MACON WATER AUTHORITY STANDARD**  
 N.T.S.



**DETAIL - METALLIC TAPE LOCATOR**  
**MACON WATER AUTHORITY STANDARD**  
 N.T.S.



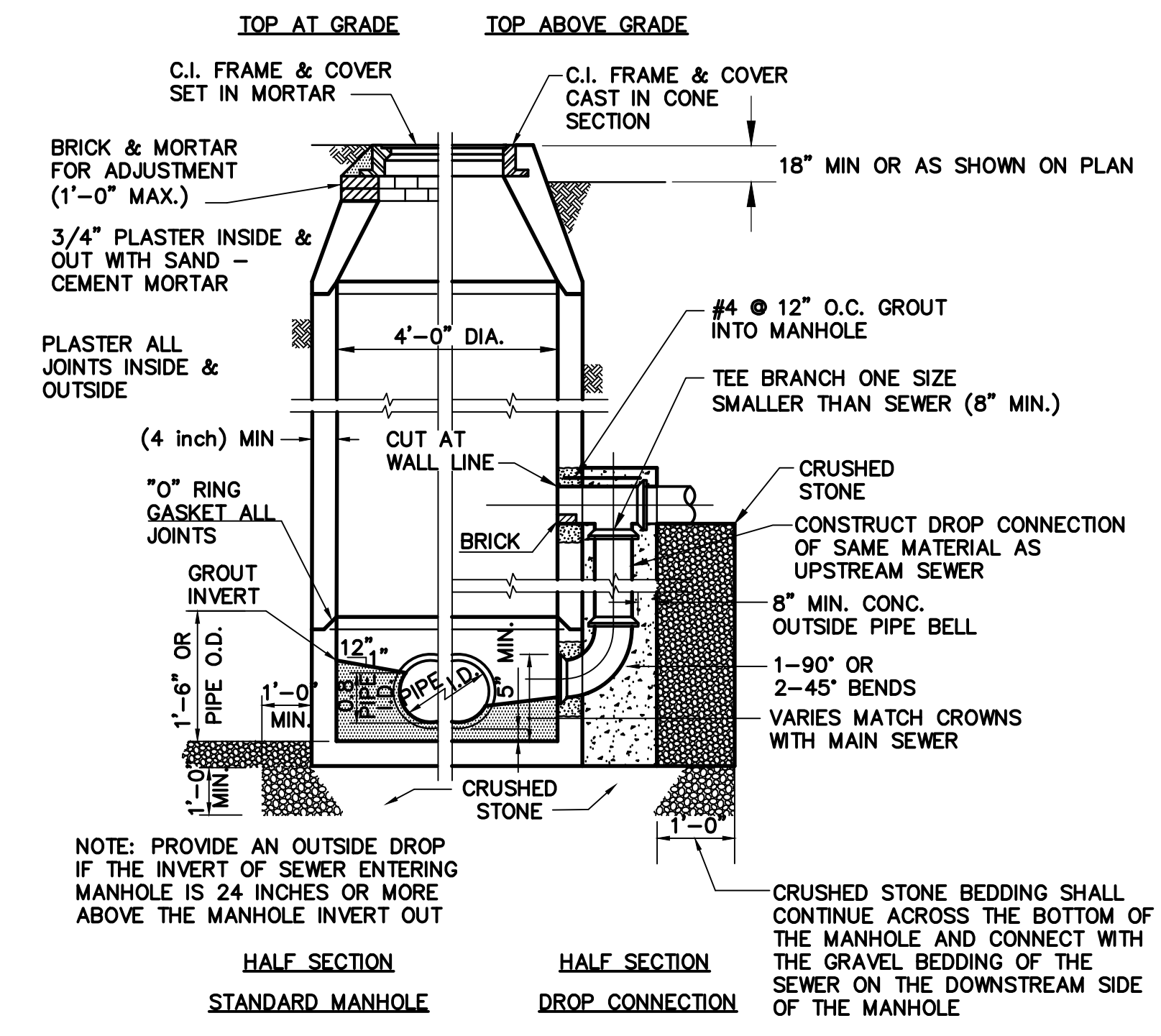
STANDARD MANHOLE SCHEDULE OF GOVERNING DIMENSIONS

PIPE SIZE	ANGLE "A"	MH. DIA.	"T"	"X"
8" TO 16"	0° TO 90°	4'-0"	5"	0"
18" TO 24"	0° TO 60°	4'-0"	5"	0"
18" TO 24"	60° TO 90°	5'-0"	6"	6"

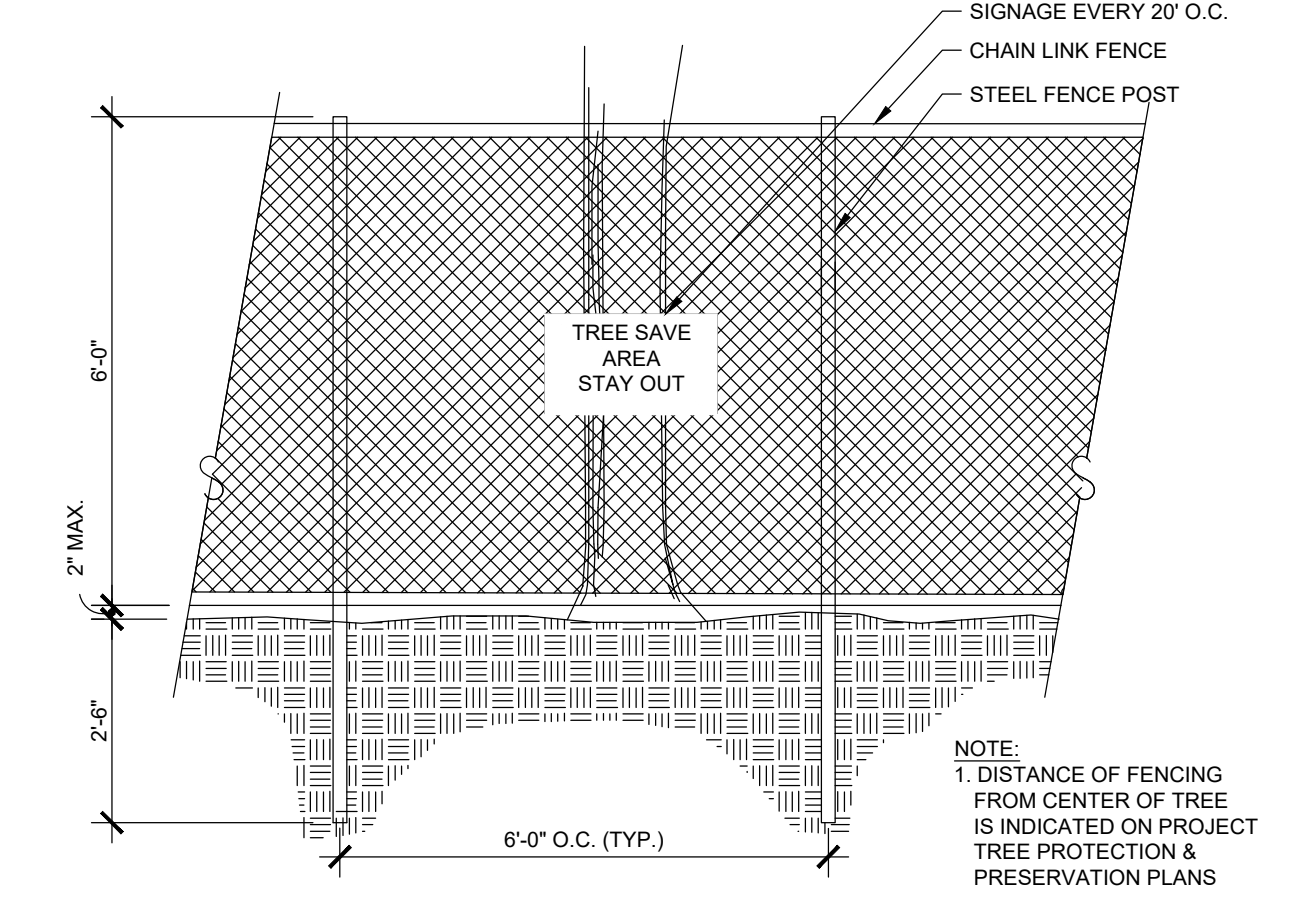
NOTE: MINIMUM C RADIUS (R) OF M.H. INVERT = 1.5 x PIPE DIAMETER

TYPICAL PLANS

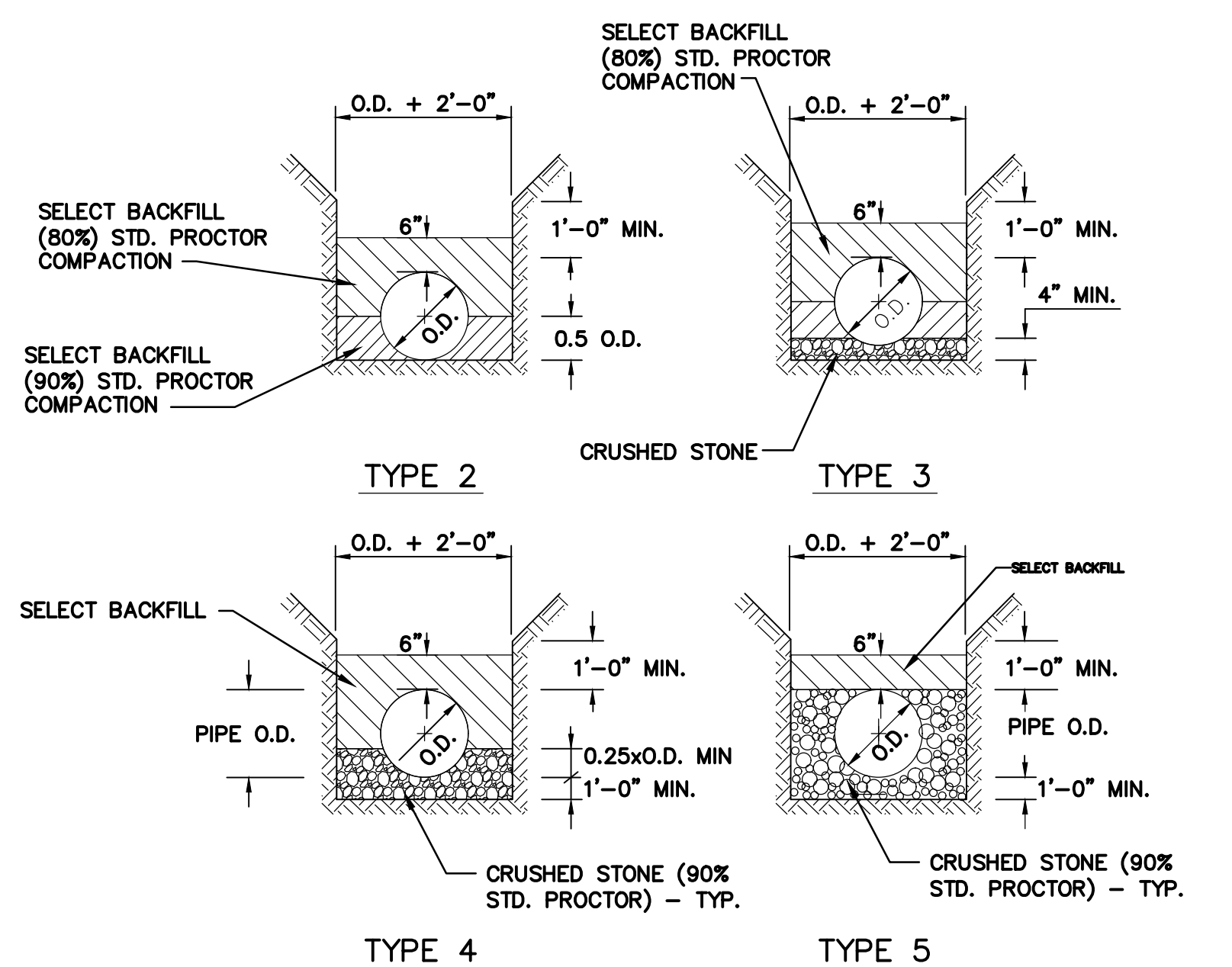
**DETAIL - DIRECTION OF FLOW IN A MANHOLE**  
 N.T.S.



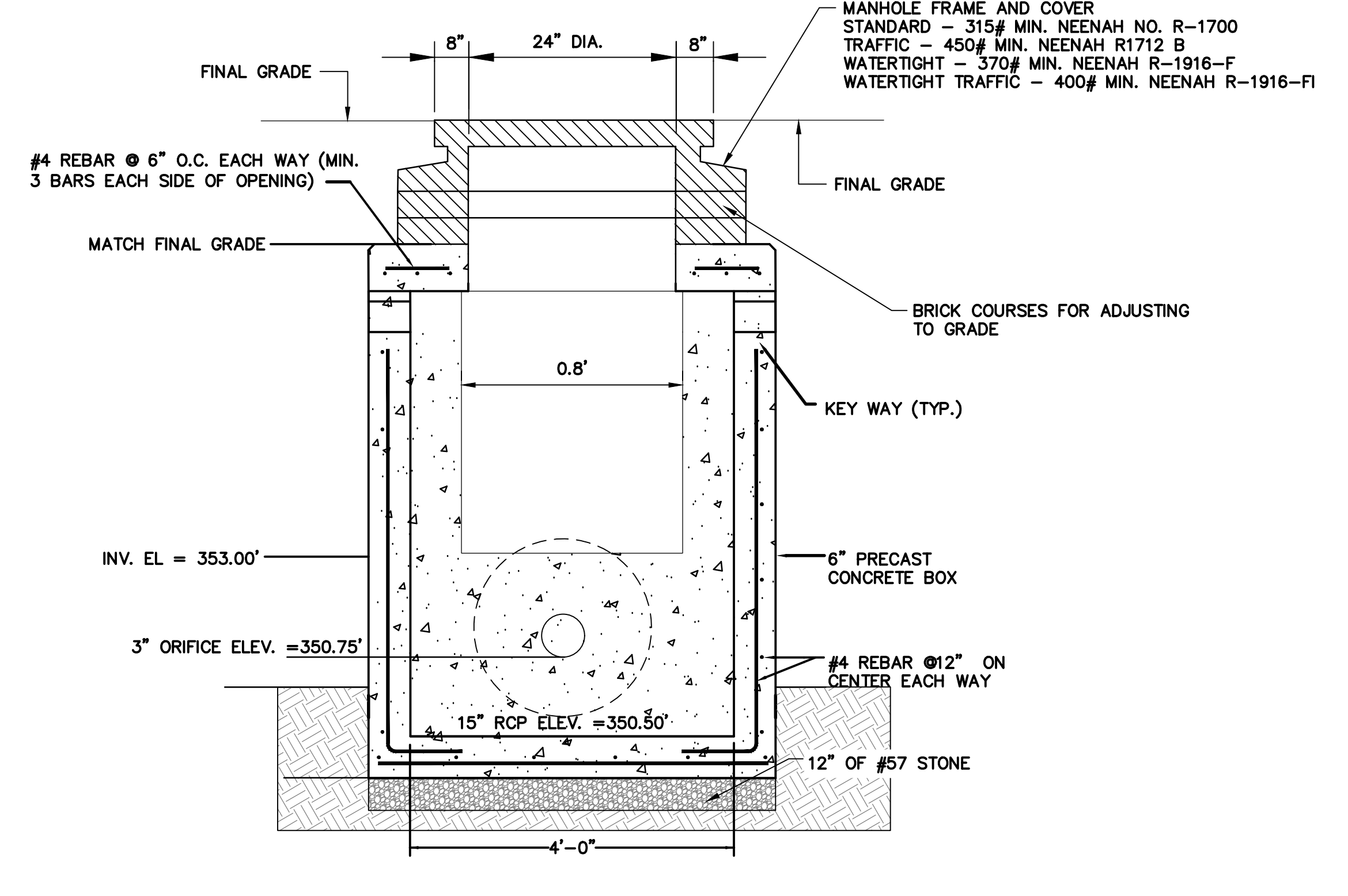
**DETAIL - PRECAST CONCRETE MANHOLE**  
**MACON WATER AUTHORITY STANDARD**  
 N.T.S.



**DETAIL - TREE PROTECTION FENCE**  
 N.T.S.



**DETAIL - PIPE BEDDING AND HAUNCHING**  
**MACON WATER AUTHORITY STANDARD**  
 N.T.S.



**DETAIL - OUTLET CONTROL STRUCTURE**  
 N.T.S.



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CONSULTANT INFORMATION:

PROJECT TITLE:

**ROSA PARKS SQUARE**  
**RENOVATION PROJECT**  
 POPLAR STREET  
 MACON, GEORGIA  
 MACON-BIBB COUNTY  
 MACON, GEORGIA

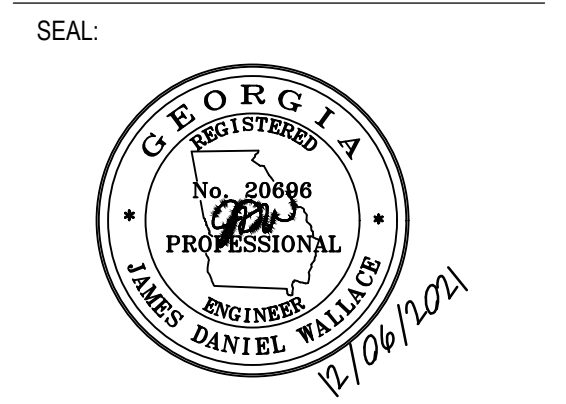
PROJECT NO:  
**21026**

PRINCIPAL IN CHARGE: TF  
 PROJECT ARCHITECT:  
 DRAWN BY: MW

ISSUE AND DATE:  
 MARCH 26th, 2024

CONSTRUCTION DOCUMENTS  
 ALTERNATE SCOPE

REVISIONS:  
 NO. DATE DESCRIPTION

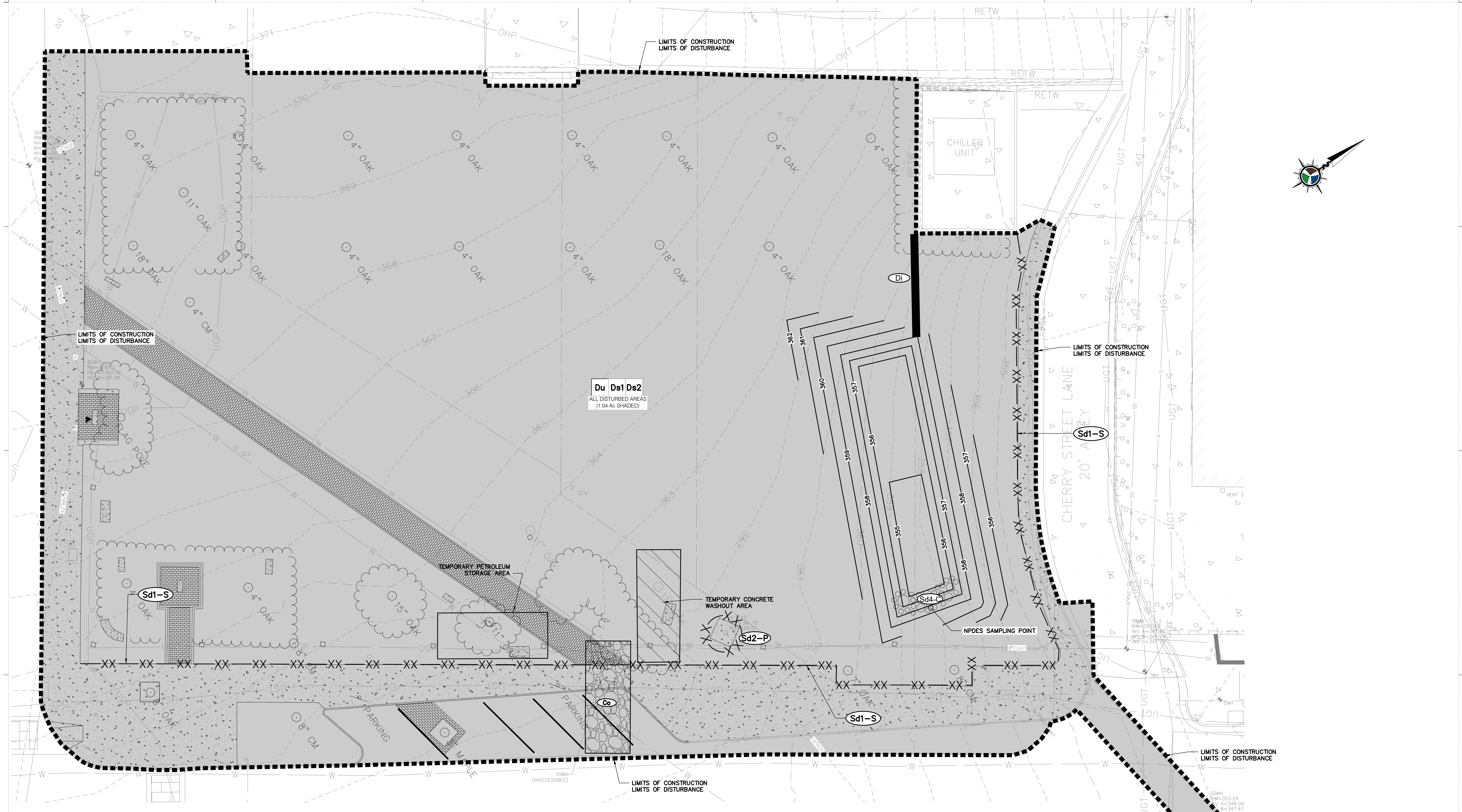


SHEET TITLE: SITE DETAILS

SHEET NO:  
**C-5.1**

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SOILS LEGEND	HYDROLOGIC SOIL GROUP
UD URBAN LAND	N/A

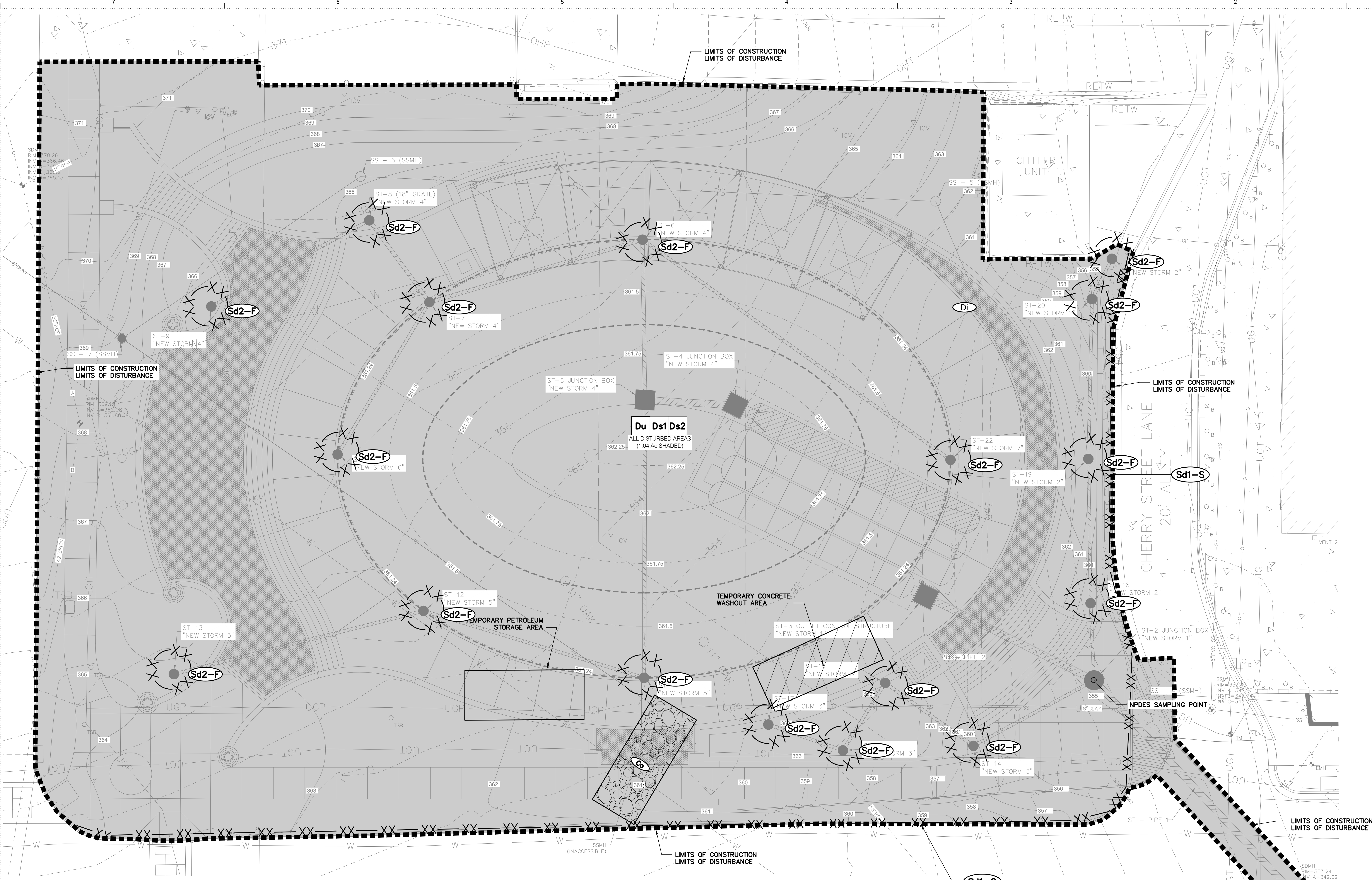
SEDIMENT STORAGE:  
 1.04 AC DISTURBED  
 67 CY PER AC REQUIRED  
 REQUIRED STORAGE = 67 CY  
 SEDIMENT STORAGE IN Sd4-C:  
 Sd4-DEPTH STORAGE  
 Sd4-C 3 FT 85 CY  
 TOTAL 85 CY  
 PROVIDED STORAGE 85 CY > REQUIRED STORAGE 67 CY

**GSWCC** Georgia Soil and Water Conservation Commission

James D Wallace  
 Level II Certified Design Professional

CERTIFICATION NUMBER 0000003053  
 NUMBER 02/01/2022 EXPIRES 02/01/2025

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INLET ID#	DRAINAGE AREA (Ac)	REQ. SED. STORAGE (67CY/Ac)	REQ. SED. STORAGE (CF)	MIN. DEPTH (Ft.)	SIDE SLOPES (Ft.:1 Ft.)	MIN. SURFACE AREA (Ft. <sup>2</sup> )	LENGTH OF EXCAVATION (Ft. @ TOP)	LENGTH OF EXCAVATION (Ft. @ BOT.)	WIDTH OF EXCAVATION (Ft. @ TOP)	WIDTH OF EXCAVATION (Ft. @ BOT.)	STORAGE PROVIDED (CY)
ST-6	0.01	0.60	16.28	2.00	2.00	8.14	14.00	6.00	11.50	3.50	6.74
ST-7	0.07	4.69	126.63	2.00	2.00	63.32	14.00	6.00	11.50	3.50	6.74
ST-8	0.14	9.38	253.26	2.00	2.00	126.63	14.00	6.00	11.50	3.50	6.74
ST-9	0.02	1.34	36.18	2.00	2.00	18.09	14.00	6.00	11.50	3.50	6.74
ST-10	0.09	6.03	162.81	2.00	2.00	81.41	14.00	6.00	11.50	3.50	6.74
ST-11	0.09	6.03	162.81	2.00	2.00	81.41	14.00	6.00	11.50	3.50	6.74
ST-12	0.07	4.69	126.63	2.00	2.00	63.32	14.00	6.00	11.50	3.50	6.74
ST-13	0.01	0.67	18.09	2.00	2.00	9.05	14.00	6.00	11.50	3.50	6.74
ST-21	0.05	3.35	90.45	2.00	2.00	45.23	14.00	6.00	11.50	3.50	6.74
ST-22	0.13	8.71	235.17	2.00	2.00	117.59	14.00	6.00	11.50	3.50	6.74
TOTAL											67.41

**GSWCC** Georgia Soil and Water Conservation Commission

James D Wallace  
 Level II Certified Design Professional

CERTIFICATION NUMBER: 0000003053  
 ISSUED: 02/01/2022 EXPIRES: 02/01/2025

**811**  
 Know what's below.  
 Call before you dig.

GRAPHIC SCALE IN FEET  
 SCALE: 1"=10'

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CONSULTANT LOGO:



CONSULTANT INFORMATION:

PROJECT TITLE:

**ROSA PARKS SQUARE  
 RENOVATION PROJECT**  
 POPLAR STREET  
 MACON, GEORGIA  
 MACON-BIBB COUNTY  
 MACON, GEORGIA

PROJECT NO:  
**21026**

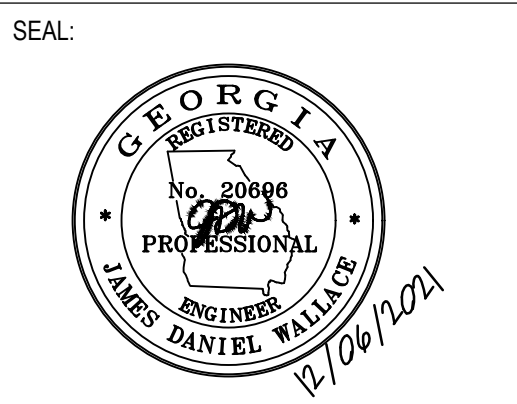
PRINCIPAL IN CHARGE: TF  
 PROJECT ARCHITECT: MW  
 DRAWN BY: MW

ISSUE AND DATE:  
 MARCH 26th, 2024

CONSTRUCTION DOCUMENTS  
 ALTERNATE SCOPE

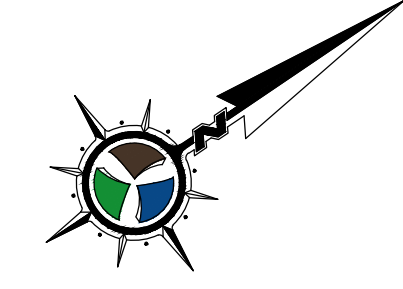
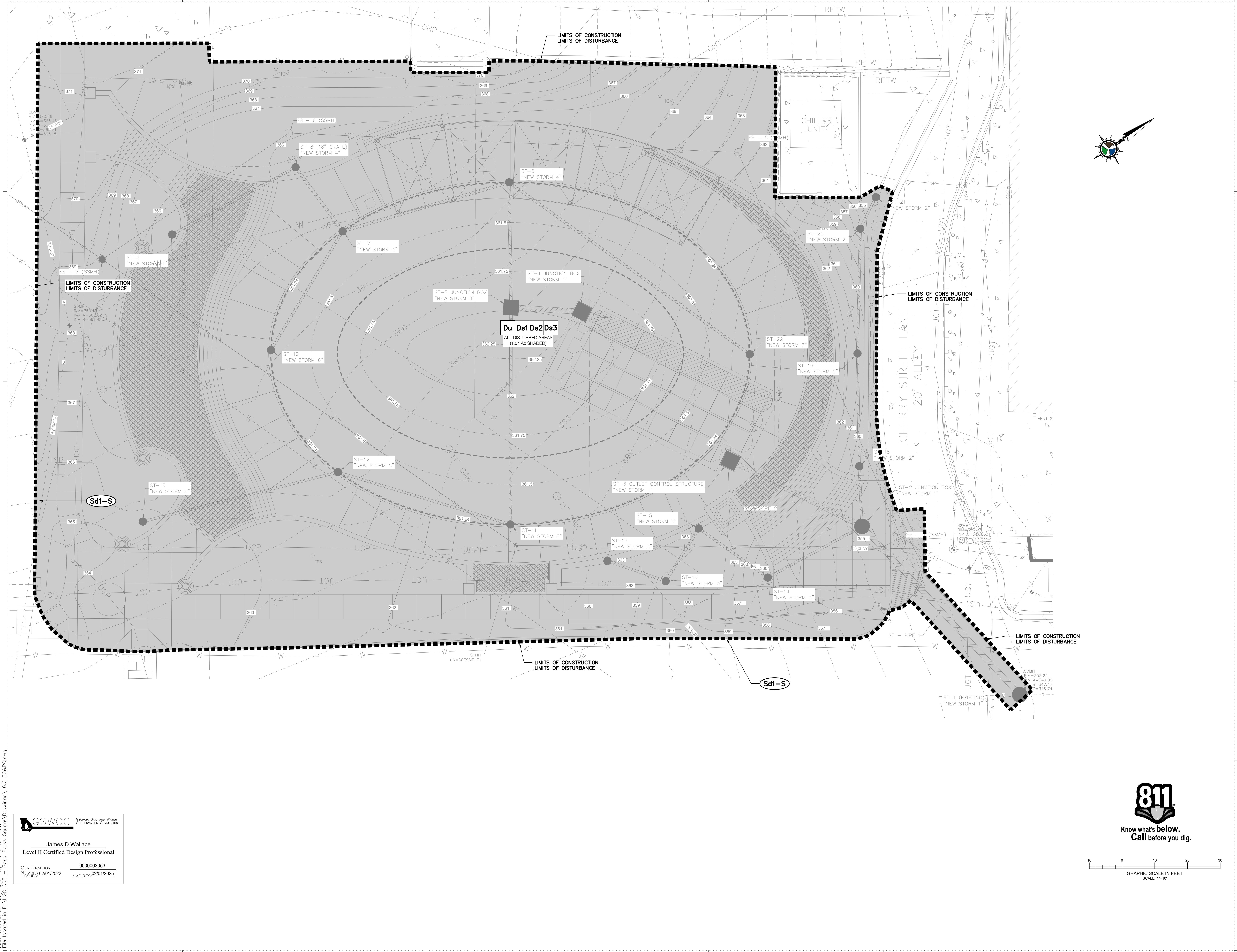
REVISIONS:

NO.	DATE	DESCRIPTION



SHEET TITLE: FINAL ES&PC  
 SHEET NO:  
**C-6.2**

RELEASED FOR CONSTRUCTION

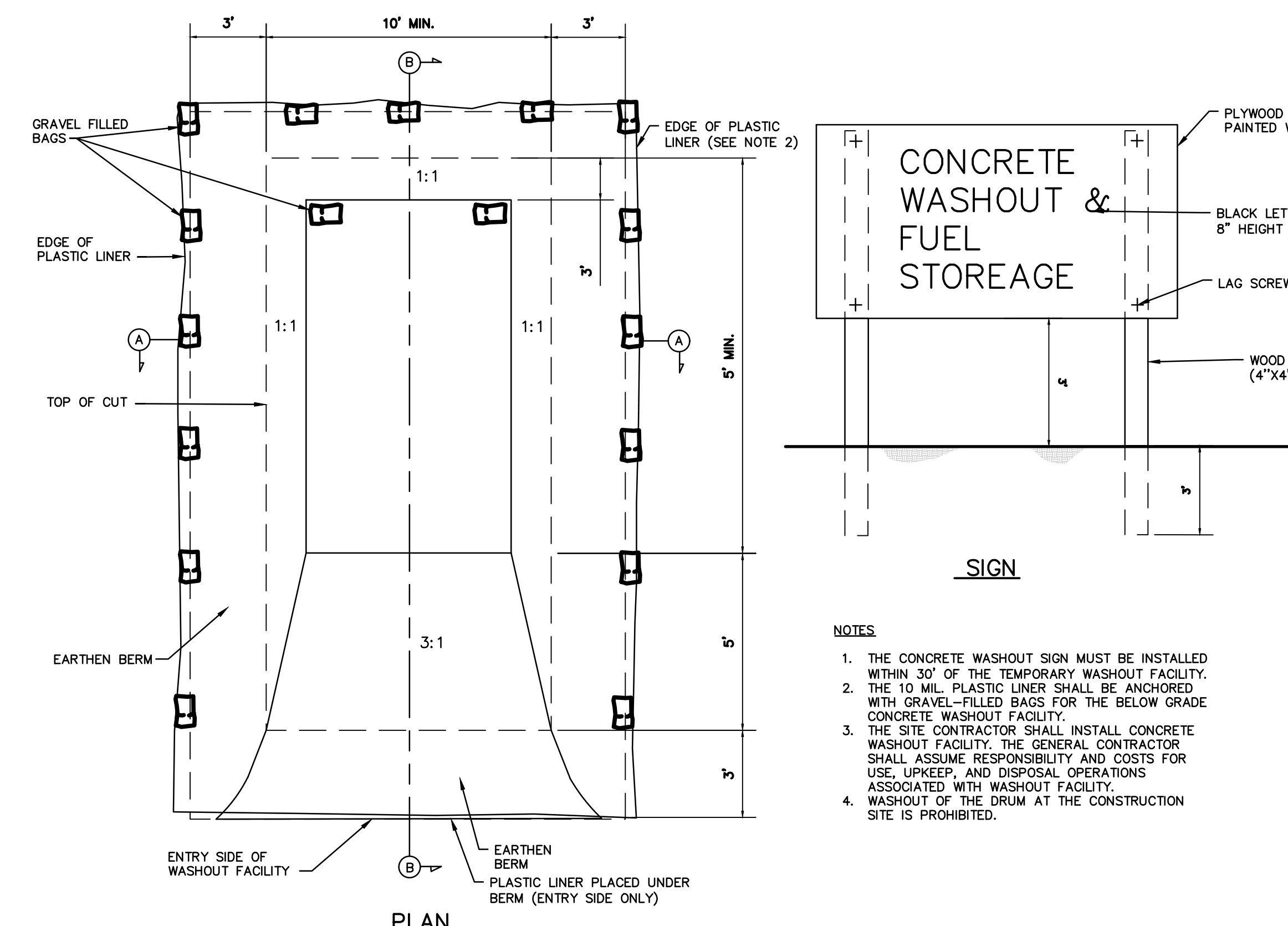
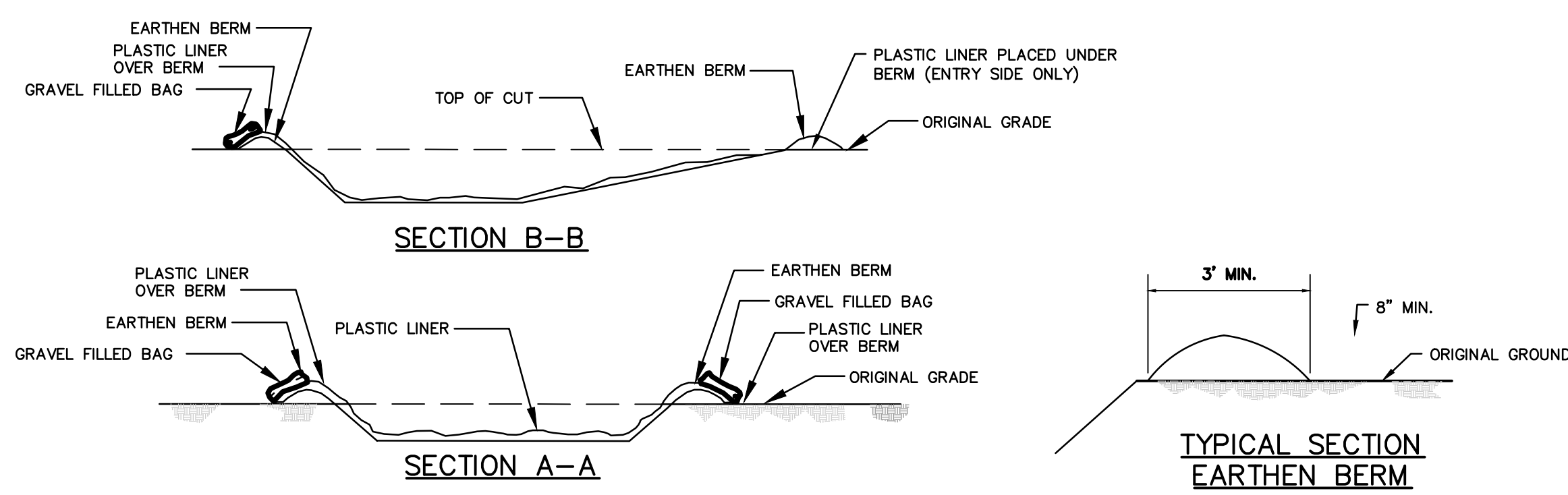


**811**  
 Know what's below.  
 Call before you dig.

GRAPHIC SCALE IN FEET  
 SCALE: 1"=10'

**GSWCC** Georgia Soil and Water Conservation Commission  
 James D Wallace  
 Level II Certified Design Professional  
 CERTIFICATION NUMBER 0000003053  
 NUMBER 02/01/2022 EXPIRES 02/01/2025

Last modified on 03/26/24 by NATE SHELTER  
 File located in P:\HGO\_005 - Rosa Parks Square Drawings\6.0\_ES&PC.dwg



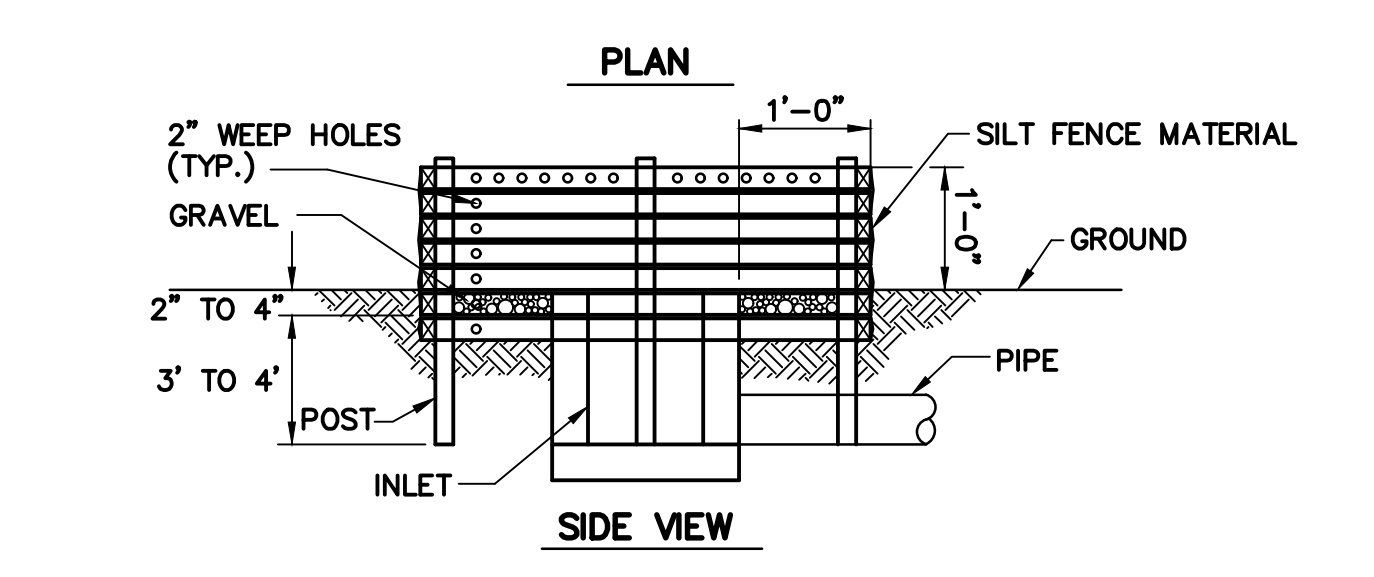
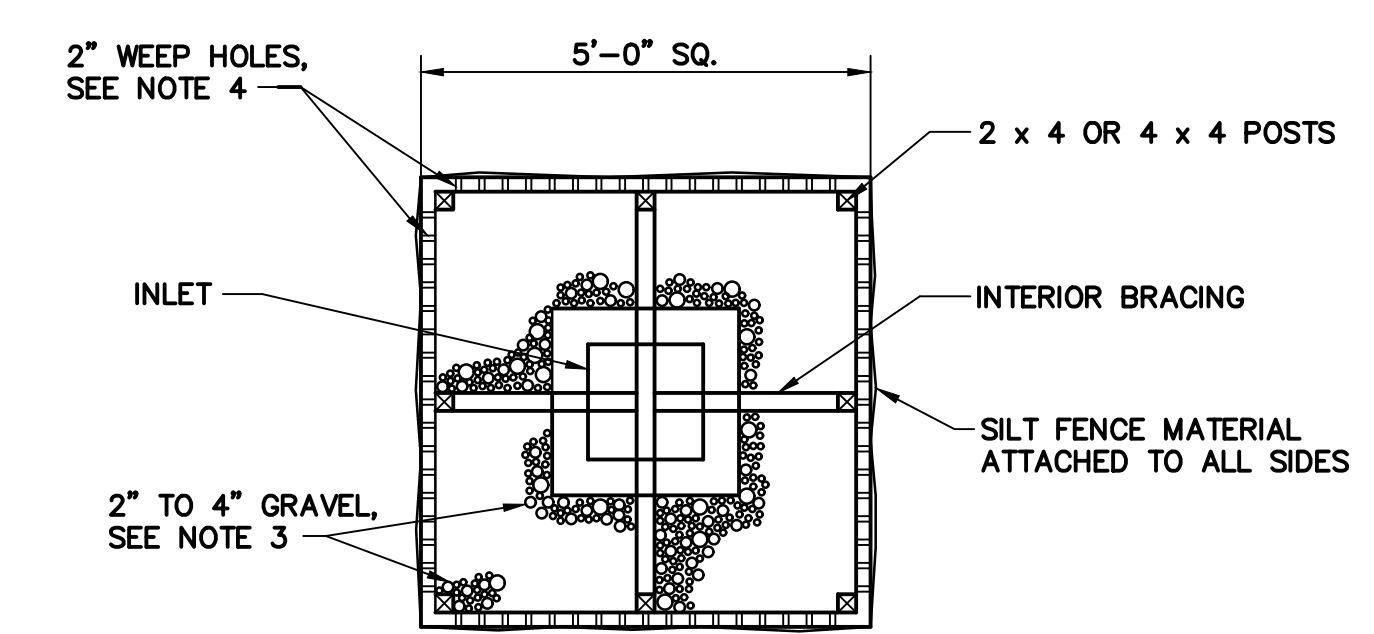
**TEMPORARY CONCRETE WASHOUT & FUEL STORAGE FACILITY**  
N.T.S.

STARTING DATE: \_\_\_\_\_  
COMPLETION DATE: \_\_\_\_\_

ITEM	DESCRIPTION	MONTHS OF CONSTRUCTION ACTIVITY																	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1	SILT BARRIER INSTALLATION																		
2	SEDIMENT TRAPS																		
3	CLEARING AND GRUBBING																		
4	GRADING																		
5	BUILDING CONSTRUCTION																		
6	STORM DRAINAGE																		
7	TEMPORARY GRASSING/MULCHING																		
8	AGGREGATE BASE AND PAVING																		
9	FINAL STABILIZATION & REMOVAL OF TEMPORARY STRUCTURES																		
10	MAINTENANCE OF EROSION CONTROL STRUCTURES																		

STARTING AND COMPLETION DATES ARE APPROXIMATE AND ARE NOT INTENDED TO BE CONTRACTUAL. "FINAL STABILIZATION" MEANS THAT ALL SOIL DISTURBING ACTIVITIES AT THE SITE HAVE BEEN COMPLETED, AND THAT FOR UNPAVED AREAS AND AREAS NOT COVERED BY PERMANENT STRUCTURES, 100% OF THE SOIL SURFACE IS UNIFORMLY COVERED IN PERMANENT VEGETATION WITH A DENSITY OF 70% OR GREATER, OR EQUIVALENT PERMANENT STABILIZATION MEASURES (SUCH AS THE USE OF RIP RAP, GABIONS, PERMANENT MULCHES OR GEOTEXTILES) HAVE BEEN USED. PERMANENT VEGETATION SHALL CONSIST OF: PLANTED TREES, SHRUBS, PERENNIAL VINES; A CROP OF PERENNIAL VEGETATION APPROPRIATE FOR THE TIME OF YEAR AND REGION; OR A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET CROP PERENNIALS APPROPRIATE FOR THE REGION.

**CONSTRUCTION TIMELINE**  
N.T.S.



- NOTES:
- THE SEDIMENT BOX TO BE MADE OF 1x4" BOARDS SPACED A MAXIMUM OF 1" APART OR OF PLYWOOD WITH 2" WEEP HOLES.
  - DIMENSIONS OF THE BOX WILL VARY ACCORDING TO THE SIZE OF THE INLET AND THE DEPTH OF THE BASIN.
  - PLACE GRAVEL INSIDE THE BOX ALL AROUND THE INLET TO A DEPTH OF 3. 2" TO 4".
  - SPACE THE WEEP HOLES APPROXIMATELY 6" O.C. VERTICAL AND 6" O.C. HORIZONTAL WHERE PLYWOOD IS USED.

**DETAIL - TEMPORARY SEDIMENT TRAP**  
N.T.S.

**Du** DUST SHALL BE CONTROLLED ON THIS SITE BY APPLYING A WATER SPRAY TO DISTURBED AREAS AS NEEDED.

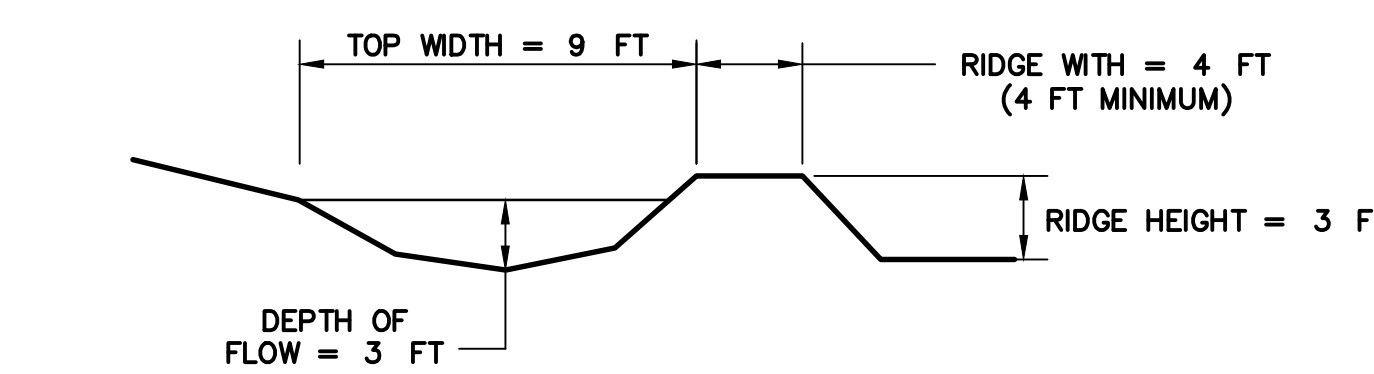
**Ds1** MULCHING RATES:  
DRY STRAW OR HAY - SPREAD AT A RATE OF 2 1/2 TONS PER ACRE. WOOD WASTE, CHIPS, SANDUST, OR BARK - SPREAD 2 TO 3 INCHES DEEP. EROSION CONTROL MATTING OR NETTING - APPLY IN ACCORDANCE WITH MFG. REC'S. POLYETHYLENE FILM - SECURED OVER BANKS OR STOCKPILED SOIL MATERIAL FOR PROTECTION.

**Ds2** TEMPORARY VEGETATIVE SPECIFICATIONS:  
TEMP. GRASSING SHALL BEGIN 2 WEEKS FOLLOWING INITIAL DISTURBANCE.

SPECIES	RATE PER 1000 SQ.FT.	RATE PER ACRE	PLANTING DATES
RYE	3.9 POUNDS	3 BU.	9-1 TO 1-1
RYE GRASS, ANNUAL	1 POUND	40-50 lbs.	9-1 TO 4-15
SUDAN GRASS	1.4 POUNDS	60 lbs.	4-1 TO 10-1
BROWN TOP MILLET	1 POUND	40 lbs.	4-1 TO 7-15
WHEAT	4.1 POUNDS	3 BU.	10-1 TO 1-1

**Ds3** PERMANENT VEGETATIVE SPECIFICATIONS:

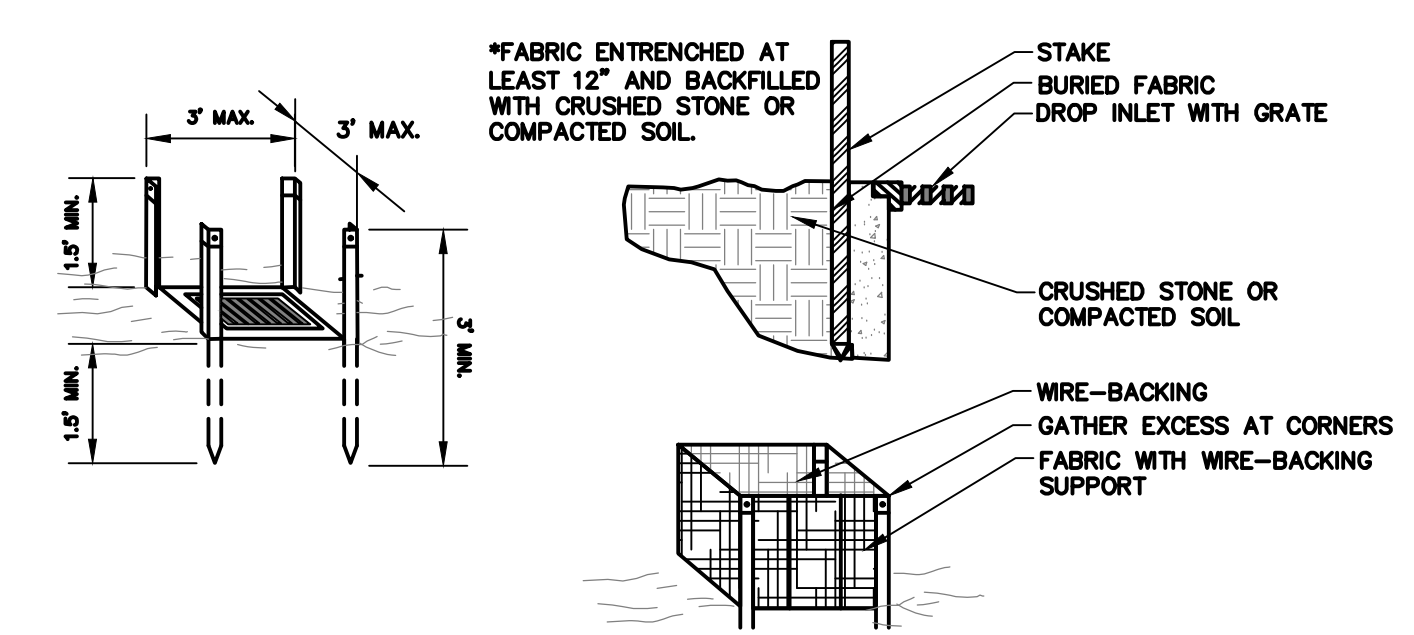
GRASS	SEEDING RATE	PLANTING DATES	FERTILIZER RATE
			N P K Year Per Acre
HULLED COMMON BERMUDA	8lbs./Ac	3-1 TO 6-15	6 12 12 1st. 1500 Lbs.
UNHULLED COMMON BERMUDA	10lbs./Ac	10-1 TO 3-1	SAME AS ABOVE
PENSACOLA BAHIA	60 Lb./Ac	Year Round	SAME AS ABOVE
MULCH - 2 1/2 TON/Ac.			
LIME - 1 TON/Ac.			



**DETAIL - CHANNEL CROSS SECTION**  
N.T.S.

**FABRIC AND SUPPORTING FRAME FOR INLET PROTECTION**

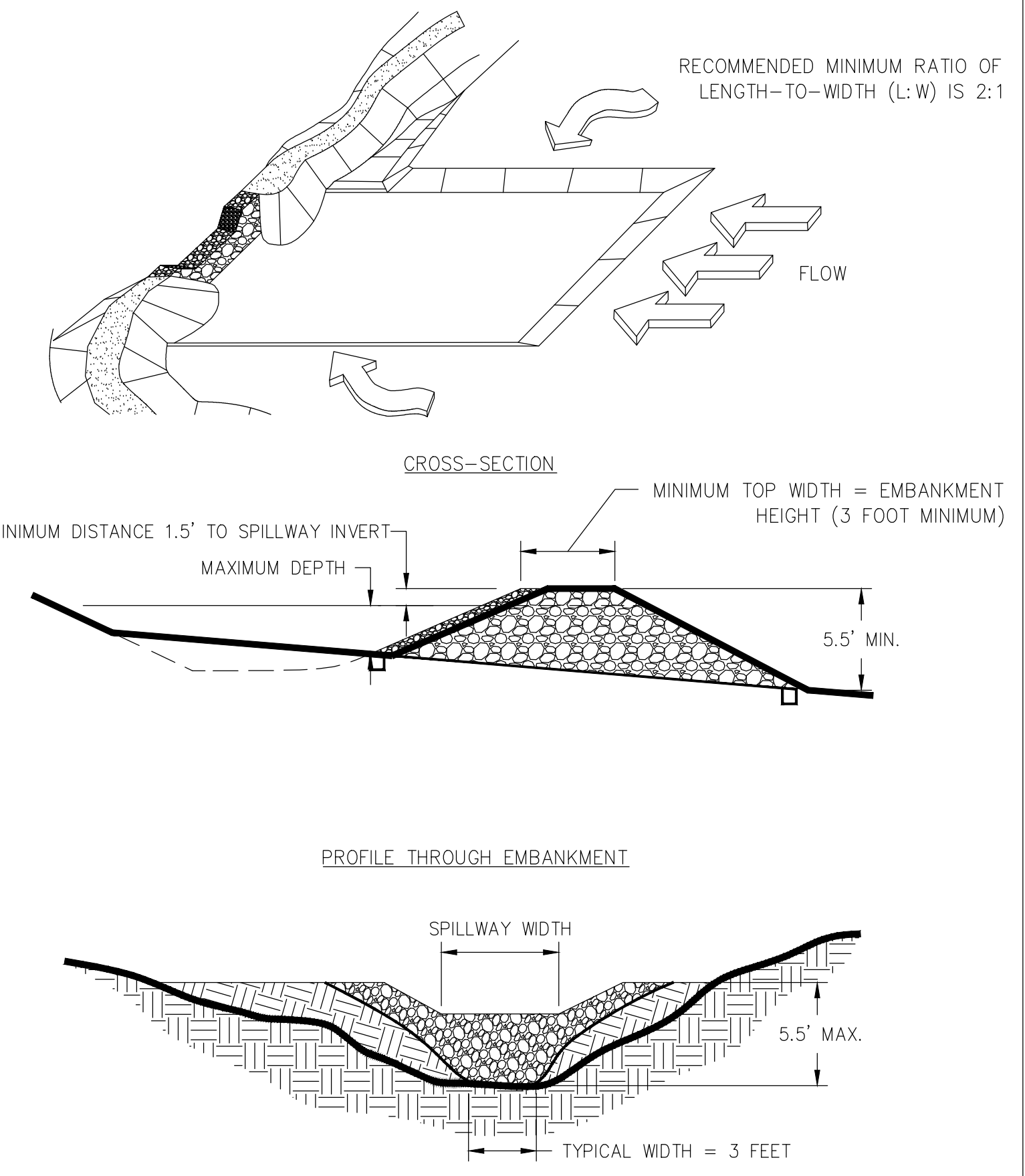
**STEEL FRAME AND TYPE-S SILT FENCE INSTALLATION**



- NOTES:
- DESIGN IS FOR SLOPES NO GREATER THAN 5% (NOT DESIGNED FOR CONCENTRATED FLOWS).
  - THE STEEL POSTS SUPPORTING THE SILT FENCE MATERIAL SHOULD BE SPACED EVENLY AROUND THE PERIMETER OF THE INLET (MAXIMUM OF 3' APART).
  - THE STEEL POSTS SHOULD BE SECURELY DRIVEN AT LEAST 18" DEEP.
  - THE FABRIC SHOULD BE ENTRENCHED AT LEAST 12" AND THEN BACKFILLED WITH CRUSHED STONE OR COMPACTED SOIL.

**DETAIL - TEMPORARY SEDIMENT TRAP**  
N.T.S.

**TEMPORARY SEDIMENT TRAP**  
COURTESY OF CITY OF KNOXVILLE BMP EROSION AND SEDIMENT CONTROL

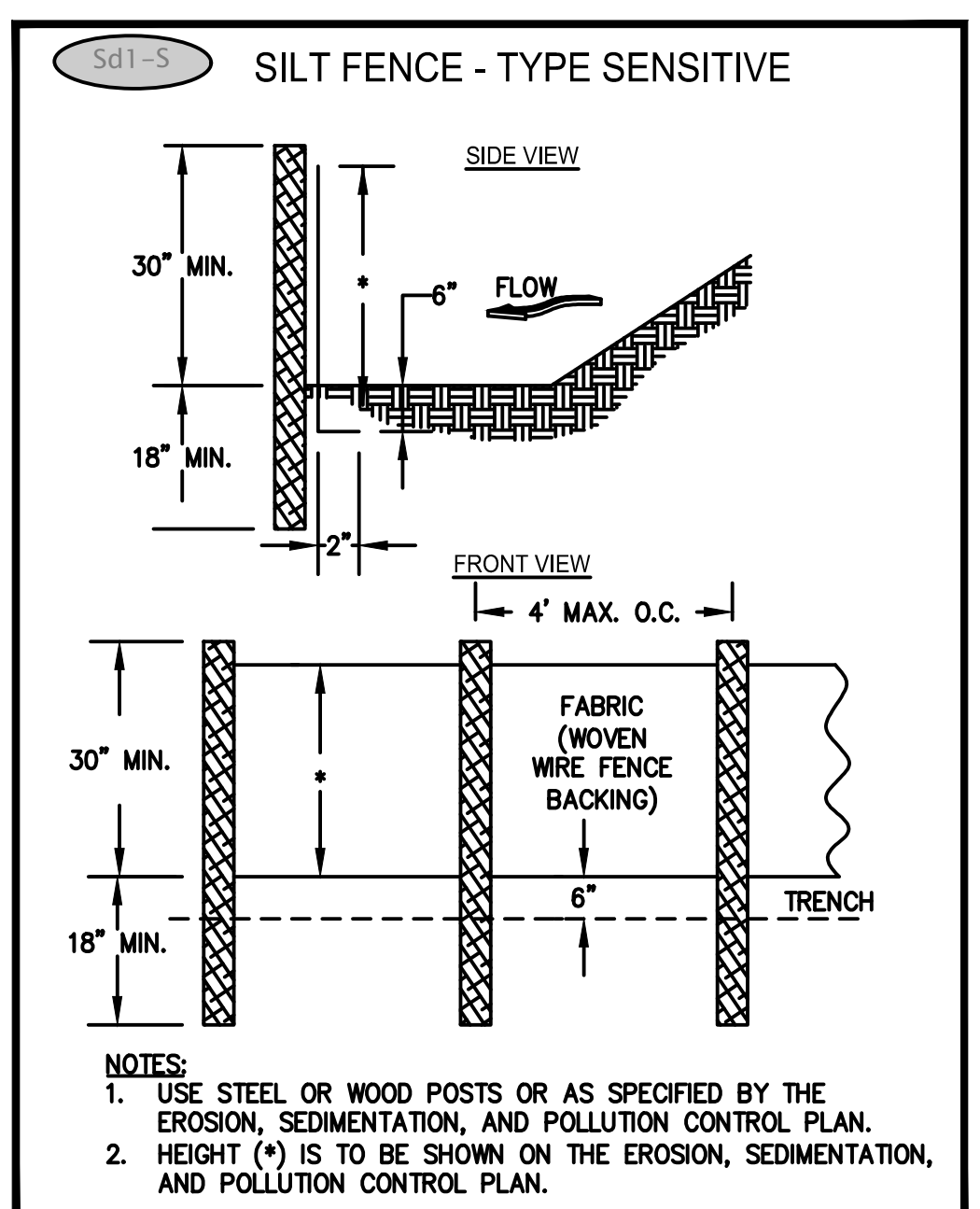


**STRUCTURAL PRACTICES**

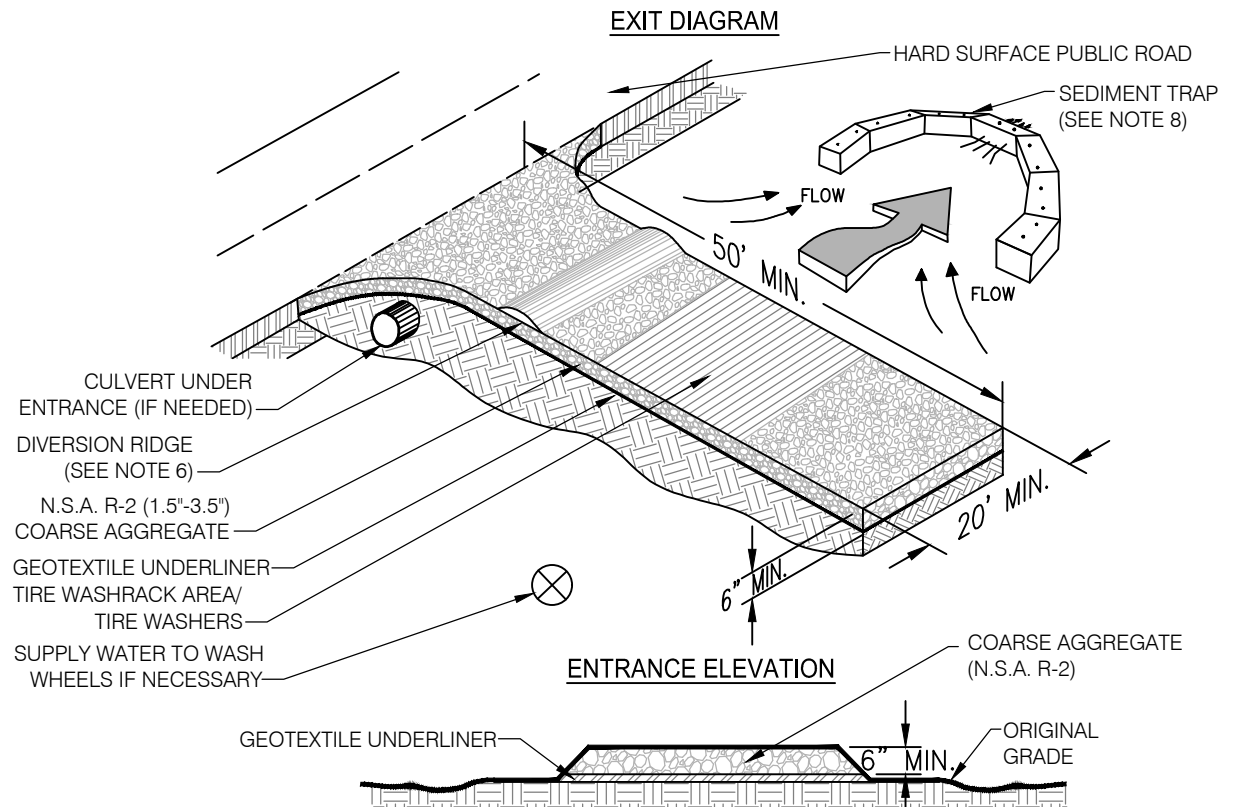
CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Co	CONSTRUCTION EXIT			A crushed stone pad located at the construction exit to provide a place for removing mud from tires thereby protecting public streets.
Fr	FILTER RING			A temporary stone barrier constructed at storm drain inlets and pond outlets.
Sd1	SEDIMENT BARRIER			A barrier to prevent sediment from leaving the construction site. It shall be a sediment fence.
Sd2	INLET SEDIMENT TRAP			An impounding area created by excavating around a storm drain inlet. The excavated area will be filled and stabilized on completion of construction activities.
Sd4	TEMPORARY SEDIMENT TRAP			A small temporary pond that drains a disturbed area so that sediment can settle out. The principle feature is a temporary sediment basin in the back of a pipe or riser.
Di	DIVERSION			An earth channel or dike located above, below, or across a slope to divert runoff. This may be a temporary or permanent structure.

**VEGETATIVE PRACTICES**

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Du	DUST CONTROL ON DISTURBED AREAS			Contracting surface and/or movement of dust on construction site, roadways and similar sites.
Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)			Establishing temporary protection for disturbed areas where seedings may not have a suitable growing season to produce an erosion retarding cover.
Ds2	DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)			Establishing a temporary vegetative cover with fast growing seed on disturbed areas.
Ds3	DISTURBED AREA STABILIZATION (WITH PERM SEEDING)			Establishing a permanent vegetative cover such as trees, shrubs, vines, grasses, or legumes on disturbed areas.



- NOTES:
- USE STEEL OR WOOD POSTS OR AS SPECIFIED BY THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
  - HEIGHT (\*) IS TO BE SHOWN ON THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.



- NOTES:
- AVOID LOCATING ON STEEP SLOPES OR AT CURVES ON PUBLIC ROADS.
  - REMOVE ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FROM THE FOUNDATION AREA, GRADE, AND CROWN FOR POSITIVE DRAINAGE.
  - AGGREGATE SIZE SHALL BE IN ACCORDANCE WITH NATIONAL STONE ASSOCIATION R-2 (1.5"-3.5" STONE).
  - GRAVEL PAD SHALL HAVE A MINIMUM THICKNESS OF 6".
  - PAD WIDTH SHALL BE EQUAL FULL WIDTH AT ALL POINTS OF VEHICULAR EGRESS, BUT NO LESS THAN 20'.
  - A DIVERSION RIDGE SHOULD BE CONSTRUCTED WHEN GRADE TOWARD PAVED AREA IS GREATER THAN 2%.
  - INSTALL PIPE UNDER THE ENTRANCE IF NEEDED TO MAINTAIN DRAINAGE DITCHES.
  - WHEN WASHING IS REQUIRED, IT SHOULD BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN (DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE ENTRANCE TO A SEDIMENT CONTROL DEVICE).
  - WASHRACKS AND/OR TIRE WASHERS MAY BE REQUIRED DEPENDING ON SCALE AND CIRCUMSTANCE. IF NECESSARY, WASHRACK DESIGN MAY CONSIST OF ANY MATERIAL SUITABLE FOR TRUCK TRAFFIC THAT REMOVE MUD AND DIRT.
  - MAINTAIN AREA IN A WAY THAT PREVENTS TRACKING AND/OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.

**DETAIL - TEMPORARY CONSTRUCTION EXIT**  
N.T.S.

**GSWCC** Georgia Soil and Water Conservation Commission

James D Wallace  
Level II Certified Design Professional

CERTIFICATION NUMBER 02/01/2022  
0000003053  
EXPIRES 02/01/2025

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www.hgor.com  
p. 404-248-1960  
f. 404-248-1092

CONSULTANT LOGO:

**TRIPLE POINT**  
ENGINEERING

CONSULTANT INFORMATION:

PROJECT TITLE:

**ROSA PARKS SQUARE RENOVATION PROJECT**  
POPLAR STREET  
MACON, GEORGIA  
MACON-BIBB COUNTY  
MACON, GEORGIA

PROJECT NO:  
21026

PRINCIPAL IN CHARGE: TF  
PROJECT ARCHITECT:  
DRAWN BY: MW

ISSUE AND DATE:  
MARCH 26th, 2024

CONSTRUCTION DOCUMENTS  
ALTERNATE SCOPE

REVISIONS:  
NO. DATE DESCRIPTION

SEAL:

**GEORGIA REGISTERED PROFESSIONAL ENGINEER DANIEL WALKER 1070612024**

SHEET TITLE: ES&PC DETAILS

SHEET NO:  
**C-6.3**

RELEASED FOR CONSTRUCTION

Last modified on: 03/26/24 by: NATE SHELTER  
File located in: P:\HGO\_005 - Rosa Parks Square Drawings\6.0\_ES&PC.dwg



**Erosion, Sedimentation, & Pollution Control Notes & Comprehensive Monitoring Plan** PAGE 1 OF 8

**STORMWATER DISCHARGE FROM THIS SITE IS PERMITTED AND GOVERNED BY NPDES GENERAL PERMIT NO. GAR 100001. THE SAMPLING, RECORD KEEPING, AND INSPECTION REQUIREMENTS OF THE PERMIT ARE THE RESPONSIBILITY OF THE PRIMARY PERMITTEE. AND ARE HEREBY INCORPORATED INTO THIS PLAN. IT IS THE RESPONSIBILITY OF THE PRIMARY PERMITTEE TO CONTACT THE ENGINEER AT 478-476-0700 TO NOTIFY HIM OF THE START OF LAND DISTURBING ACTIVITIES. THE PRIMARY PERMITTEE IS RESPONSIBLE FOR SUBMITTING A NOTICE OF INTENT AT LEAST 14 DAYS PRIOR TO CONSTRUCTION AND A NOTICE OF TERMINATION ONCE FINAL STABILIZATION HAS BEEN ACHIEVED.**

- These notes are taken from the Erosion, Sedimentation, and Pollution Control Plan Checklist for stand alone construction projects as published by the Commission on January 1, 2024.
- The Level I certification number and seal of the certified Design Professional can be found on each sheet pertaining to the ES&PC plan (see all sheets).
- The limits of disturbance does not exceed 50 acres within the project area.
- The name and phone number of the 24-hour local contact responsible for erosion, sedimentation and pollution shall be a designee of the site contractor.  
TBD at time of contract letting.  
Name:  
Phone:  
E-Mail:
- Primary Permittee information:  
TBD at time of contract letting.  
Company:  
Address:  
Phone:  
E-Mail:
- Total acreage of project site: ±1.04 Acres  
Disturbed acreage of project area: ±1.04 Acres
- The GPS location of the construction exit for the site is Latitude 32.83651° N, Longitude 83.63145° W.
- The initial and/or revision date of this plan is depicted on the title block of each plan sheet. A notation shall be made on the plan of any revisions to the plan, the date of revision, and the entity that requested the revisions.
- The existing condition of the site is a grassed lot with existing sidewalks. The project site is located within the city of Macon in Bibb County. The project consists of a site plan, grading & drainage plan, utility plan, and erosion control plan for a renovation of Rosa Parks Square.
- A vicinity map showing site's relation to surrounding areas is depicted on this sheet of this plan.
- Stormwater from this site will be discharged into existing City of Macon storm sewer system. Storm water from the city's system flows to the Ocmulgee River. There are no sensitive areas related to this site.

PAGE 2 OF 8

12. I certify under penalty of law that this plan was prepared after a site visit to the locations described herein by myself or my authorized agent, under my direct supervision. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violators.

*[Signature]* 03/26/2024  
Design Professional Date

13. I certify that the permittee's Erosion, Sedimentation and Pollution Control Plan provides for an appropriate and comprehensive system of best management practices required by the Georgia Water Quality Control Act and the document "Manual for Erosion and Sediment Control in Georgia" (Manual) published by the Georgia Soil and Water Conservation Commission as of January 1 of the year in which the land-disturbing activity was permitted, provides for the sampling of the receiving water(s) or the sampling of the storm water outfalls and that the designed system of best management practices and sampling methods is expected to meet the requirements contained in the General NPDES Permit No. GAR 100001.

*[Signature]* 03/26/2024  
Design Professional Date

14. The design professional who prepared the ES&PC Plan is to inspect the installation of the initial sediment storage requirements, perimeter control BMPs, and sediment basins in accordance with Part IV.A.5 within 7 days after installation.

15. Non-exempt activities shall not be conducted within the 25- or 50-foot undisturbed stream buffers as measured from the point of westered vegetation within 25 feet of the coastal marshland buffer as measured from the Jurisdictional Determination Line without first acquiring the necessary variances and permits.

16. There are no state waters on or within 200 ft. of the project site. Therefore, there are no buffer encroachments associated with the work on this plan.

17. Amendments/revisions to the ES&PC Plan which have a significant effect on BMPs with a hydraulic component must be certified by the design professional. These items include, but are not limited to, diversions (D), temporary downstream structures (Dn1), permanent downstream structures (Dn2), level spreaders (LS), rock filter dams (RD), retaining walls (R), inlet sediment traps (IS), temporary sediment basins (SB), temporary sediment traps (ST), floating surface skimmers (SS), seep basins (SB), temporary stream crossings (ST), storm drain outlet protection (SO), turbidity curtains (TC), and vegetated waterways or stormwater conveyance channels (WC).

18. Waste materials shall not be discharged to waters of the State, except as authorized by a section 404 permit. No section 404 permit has been obtained for this development.

19. The escape of sediment from the site shall be prevented by the installation of erosion and sediment control measures and practices prior to land disturbing activities.

20. Erosion control measures shall be maintained at all times. If full implementation of the approved plan does not provide for effective erosion control, additional erosion and sediment control measures shall be implemented to control or treat the sediment source.

21. Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding.

22. This construction activity does not discharge storm water into, or within one linear mile of a Bofa Impaired Stream Segment.

23. This construction activity does not discharge storm water into, or within one linear mile of a Bofa Impaired Stream Segment.

24. Wash water from concrete truck hoppers, chutes and tools used for concrete construction shall be contained in a temporary truck wash area located at the site entrances (see sheets C6.0 & C6.1). Washout shall be contained within a pit or trench with no material leaving the site or impacting vegetated or non-disturbed areas. Disposal of material shall include the breaking of material into small amounts for trash disposal or removal from the site to an appropriate landfill. Washout of the concrete truck drum is prohibited at the site.

Paint and/or other chemicals shall be stored in secured facilities with restricted access to employees only. Cleanup and disposal of this material shall be in accordance with all recognized local and federal requirements. All disposal shall be in approved off-site waste facilities classified to accept that material.

PAGE 3 OF 8

25. BMPs for Remediation of Petroleum Leaks & Spills  
The location for petroleum storage (if any) is shown on sheets C6.0 & C6.1.

- Local, State and manufacturer's recommended methods for spill cleanup shall be clearly posted and procedures shall be made available to site personnel.
- Material and equipment necessary for spill cleanup shall be kept in the material storage areas. Typical materials and equipment includes, but is not limited to, brooms, outpans, mops, rags, gloves, goggles, cat litter, sand, sawdust and properly labeled plastic and metal waste containers.
- Spill prevention practices and procedures shall be reviewed after a spill and adjusted as necessary to prevent future spills.
- All spills shall be cleaned up immediately upon discovery. All spills shall be reported as required by local, State, and Federal regulations.
- For spills that impact surface water (leave a sheen on surface water), the EPA's National Response Center (NRC) shall be contacted within 24 hours at 1-800-424-8802.
- For spills of an unknown amount, the EPA's National Response Center (NRC) shall be contacted within 24 hours at 1-800-424-8802.
- For spills greater than 25 gallons and no surface water impacts occur, the Georgia E.P.D. shall be contacted within 24 hours at 1-800-241-4413.
- For spills less than 25 gallons and no surface water impacts occur, the spill shall be cleaned up and local agencies shall be contacted as required.

The contractor shall notify the licensed professional who prepared this Plan if more than 1320 gallons of petroleum is stored onsite (this includes capacities of equipment) or if any one piece of equipment has a capacity greater than 660 gallons. The contractor will need a Spill Prevention Containment and Countermeasures (SPCC) Plan prepared by that licensed professional.

All petroleum products shall be stored and used in an area that provides a secondary containment feature, and shall be located in an area with the least foreseeable impact if a catastrophic event should occur. Emergency contact numbers and procedures for spills shall be available on-site. All petroleum spills and leaks shall be remediated immediately. The flow must be stopped, contained, and affected soils removed. In the event of a spill or leak, contact First Environmental Nationwide toll free at (888) 720-1330.

26. Permanent grassing shall be installed to control pollutants after construction has ceased.

27. Stored building materials shall be covered with a tarp on site at the material staging area selected by the contractor.

28. Product Specific Practices  
Petroleum Based Products- Containers for products such as fuels, lubricants, and tars shall be inspected daily for leaks and spills. This shall include onsite vehicles and machinery. Equipment maintenance areas shall be located away from State Waters, natural drains, and storm water drainage inlets. In addition, temporary fueling tanks shall have a secondary containment liner to prevent/minimize site contamination. Discharge of oils, fuels, and lubricants to soil and water is prohibited.

Paints/Finishes/Solvents- All products shall be stored in tightly sealed original containers when not in use. Excess product shall not be discharged to the storm water collection system. Excess product, materials used with these products, and product containers shall be disposed of according to manufacturers specifications and recommendations. Refer to paragraph 25 for activities related to spills and leaks.

Concrete Truck Washing- NO concrete trucks shall be allowed to wash out or discharge surplus concrete or drum wash water onsite. If present, contractors can utilize the Concrete Truck Washdown to clean chutes, hoppers, wheelbarrows, and hand tools on site.

Fertilizer/Herbicides- These products shall be applied at rates that do not exceed the manufacturers specifications or above the guidelines set forth in the crop establishment or in the GSWCC Manual for Erosion and sediment control in Georgia. Any storage of these materials shall be under roof in sealed containers.

Building Materials- No building or construction materials shall be buried or disposed of onsite. All such material shall be disposed of in proper waste disposal procedures.

29. A description and chart or timeline of the intended sequence of major activities which disturb soils for the major portions of the site (i.e., initial perimeter and sediment storage BMP's, clearing and grubbing activities, excavation activities, utility activities, temporary and final stabilization) is depicted on Part C6.2 of this plan.

PAGE 4 OF 8

30. Inspections & Record Keeping:  
a. Permittee requirements:  
(1) Each day when any type of construction activity has taken place at a primary permittee's site, certified personnel provided by the primary permittee shall inspect: (a) all areas of the primary permittee's site where petroleum products are stored, used, or handled for spills and leaks from vehicles and equipment; (b) all locations at the primary permittee's site where vehicles enter or exit the site for evidence of off-site sediment tracking; and (c) measure rainfall once each twenty four hour period at the site. These inspections must be conducted until a Notice of Termination is submitted.  
(2) Measure and record rainfall within disturbed areas of the site that have not met final stabilization once every 24 hours except any non-working Saturday, non-working Sunday and non-working Federal holiday. The data collected for the purpose of compliance with this permit shall be representative of the monitored activity. Measurement of rainfall may be suspended if all areas of the site have undergone final stabilization or established a crop of annual vegetation and a seeding of target perennials appropriate for the region.  
(3) Certified personnel (provided by the primary permittee) shall inspect the following at least once every seven (7) calendar days and within 24 hours of the end of a storm that is 0.5 inches or greater (unless such storms end after 5:00 PM on any Friday or on any non-working Sunday, or any non-working Federal holiday, in which case the inspection shall be completed by the end of the next business day and/or working day, whichever comes first): (a) disturbed areas of the primary permittee's construction site that have not undergone final stabilization; (b) areas used by the primary permittee for storage of materials that are exposed to precipitation that have not undergone final stabilization; and (c) structural control measures. Erosion and sediment control measures identified in the Plan applicable to the primary permittee's site shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving water(s). For areas of a site that have undergone final stabilization or established a crop of annual vegetation and a seeding of target perennials appropriate for the region, the permittee must comply with Part IV.D.4.a.(4) of Permit GAR 100001. These inspections must be conducted until a Notice of Termination is submitted.  
(4) Certified personnel (provided by the primary permittee) shall inspect at least once per month during the term of this permit (i.e., until a Notice of Termination is received by EPD) the areas of the site that have undergone final stabilization or established a crop of annual vegetation and a seeding of target perennials appropriate for the region. These areas shall be inspected for evidence of, or the potential for, pollutants entering the drainage system and the receiving water(s). Erosion and sediment control measures identified in the Plan shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving water(s).

(5) Based on the results of each inspection, the site description and the pollution prevention and control measures identified in the Erosion, Sedimentation and Pollution Control Plan, the Plan shall be revised as appropriate not later than seven (7) calendar days following each inspection. Implementation of such changes shall be made as soon as practical but in no case later than seven (7) calendar days following each inspection.

(6) A report of each inspection that includes the name(s) of personnel making each inspection, the date(s) of each inspection, major observations relating to the implementation of the Erosion, Sedimentation and Pollution Control Plan and actions taken in accordance with Part IV.D.4.a.(5) of GAR 100001 shall be made and retained at the site or be readily available at a designated alternate location until the entire site or that portion of a construction site that has been phased has undergone final stabilization and a Notice of Termination is submitted to EPD. Such reports shall be readily available by the end of the second business day and/or working day and shall identify all incidents of best management practices that have not been properly installed and/or maintained as described in the Plan. Where the report does not identify any incidents, the inspection report shall contain a certification that the best management practices are in compliance with the Erosion, Sedimentation and Pollution Control Plan and this permit. The report shall be signed in accordance with Part V.G.2 of GAR 100001.

31. Sampling Frequency and Reporting of Results:  
(1) The Primary Permittee must sample at least once for each rainfall event described below. For a qualifying event, permittee shall sample at the beginning of any storm water discharge to a monitored receiving water and/or from a monitored outfall location within forty-five (45) minutes or as soon as possible.  
(2) However, where manual and automatic sampling are impossible (as defined in this permit), or are beyond the permittee's control, the permittee shall take samples as soon as possible, but in no case more than twelve (12) hours after the beginning of the storm water discharge.

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(3) Sampling by the permittee shall occur for the following qualifying events:

a. For each area of the site that discharges to a receiving water or from an outfall, the first rain event that reaches or exceeds 0.50 inch with a storm water discharge that occurs during business hours as defined in this permit after all clearing and grubbing operations have been completed, but prior to completion of mass grading operations, in the drainage area of the location selected as the sampling location;

b. In addition to (a) above, for each area of the site that discharges to a receiving water or from an outfall, the first rain event that reaches or exceeds 0.5 inch with a storm water discharge that occurs during normal business hours as defined in this permit after 90 days after the first sampling event or after all mass grading operations have been completed, but prior to submittal of a NOT, in the drainage area of the location selected as the sampling location, whichever comes first.

c. At the time of sampling performed pursuant to (a) and (b) above, if BMPs in the area of the site that discharges to a receiving water or from an outfall are not properly designed, installed and maintained, corrective action shall be defined and implemented within two (2) business days, and turbidity samples shall be taken from discharges from that area of the site for each subsequent rain event that reaches or exceeds 0.5 inch during normal business hours until the selected turbidity standard is attained, or until post-storm event inspections determine that BMPs are properly designed, installed and maintained.

d. Where sampling pursuant to (a), (b) or (c) above is required but not possible (or not required because there was no discharge), the permittee, in accordance with Part IV.D.4.a.(6), must include a written justification in the inspection report of why sampling was not required. Providing this justification does not relieve the permittee of any subsequent sampling obligations under (a), (b) or (c) above; and

e. Existing construction activities, i.e., those that are occurring on or before the effective date of this permit, that have met the sampling required by (a) above shall sample in accordance with (b). Those existing construction activities that have met the sampling required by (b) above shall not be required to conduct additional sampling other than as required by (c) above.

\*Note that the Permittee may choose to meet the requirements of (a) and (b) above by collecting turbidity samples from any rain event that reaches or exceeds 0.5 inch and allow for monitoring at any time of the day or week.

Sampling shall be collected by "grab samples" performed in accordance with the guidance document titled "NPDES Storm Water Sampling Guidance Document, EPA 833-B-92-001."

(1) Sample container should be labeled prior to collecting the samples.

(2) Samples should be well mixed before transferring to a secondary container.

(3) Large mouth, well cleaned and rinsed glass or plastic jars should be used for collecting samples. The jars should be cleaned thoroughly to avoid contamination.

(4) Manual, automatic or rising stage sampling may be utilized. Samples required by this permit should be analyzed immediately, but in no case later than 48 hours after collection. However, samples from automatic samplers must be collected no later than the next business day after their accumulation, unless flow through automated analysis is utilized. If automatic sampling is utilized and the automatic sampler is not activated during the qualifying event, the permittee must utilize manual sampling or rising stage sampling during the next qualifying event. Dilution of samples is not required. Samples may be analyzed directly with a properly calibrated turbidimeter. Samples are not required to be cooled.

(5) Sampling and analysis of the receiving water(s) or outfalls beyond the minimum frequency stated in this permit must be reported to EPD as specified in Part IV.E.

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**Reporting of Sampling Results:**

1. The applicable permittees are required to submit the sampling results to the EPD at the address shown in Part II.C. by the fifteenth day of the month following the reporting period. Reporting periods are months during which samples are taken in accordance with this permit. Sampling results shall be in a clearly legible format. Upon written notification, EPD may require the applicable permittee to submit the sampling results on a more frequent basis. Sampling and analysis of any stormwater discharge(s) or the receiving water(s) beyond the minimum frequency stated in this permit must be reported in a similar manner to the EPD. The sampling reports must be signed in accordance with Part V.G.2. Sampling reports must be submitted to EPD using the electronic submittal service provided by EPD. Sampling reports must be submitted to EPD until such time as a NOT is submitted in accordance with Part VI.

2. All sampling reports shall include the following information:  
a. The rainfall amount, date, exact place and time of sampling or measurements;  
b. The name(s) of the certified personnel who performed the sampling and measurements;  
c. The date(s) analyses were performed;  
d. The time(s) analyses were initiated;  
e. The name(s) of the certified personnel who performed the analyses;  
f. References and written procedures, when available, for the analytical techniques or methods used;  
g. The results of such analyses, including the bench sheets, instrument readouts, computer disks or tapes, etc., used to determine these results;  
h. Results which exceed 1000 NTU shall be reported as "exceeds 1000 NTU"; and  
i. Certification statement that sampling was conducted as per the Plan.

3. All written correspondence required by this permit shall be submitted by return receipt certified mail (or similar service) to the appropriate District Office of the EPD according to the schedule in Appendix A of this permit. The permittee shall retain a copy of the report of submittal at the construction site or the proof of submittal shall be readily available at a designated location from commencement of construction until such time as a NOT is submitted in accordance with Part VI.

32. Retention of Records  
1. The primary permittee shall retain the following records at the construction site or the records shall be readily available at a designated alternate location from commencement of construction until such time as a NOT is submitted in accordance with Part VI:  
a. A copy of all Notices of Intent submitted to EPD;  
b. A copy of the Erosion, Sedimentation and Pollution Control Plan required by this permit;  
c. The design professional's report of the results of the inspection conducted in accordance with Part IV.A.5. of this permit;  
d. A copy of all sampling information, results, and reports required by this permit;  
e. A copy of all inspection reports generated in accordance with Part IV.D.4.a. of this permit;  
f. A copy of all violation summaries and violation summary reports generated in accordance with Part III.D.2. of this permit; and  
g. Daily rainfall information collected in accordance with Part IV.D.4.a.(2), of this permit.

2. Copies of all Notices of Intent, Notices of Termination, inspection reports, sampling reports (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) or other reports requested by the EPD, Erosion, Sedimentation and Pollution Control Plans, records of all data used to complete the Notice of Intent to be covered by this permit and all other records required by this permit shall be retained by the permittee who either produced or used it for a period of at least three years from the date that the NOT is submitted in accordance with Part VI. of this permit. These records must be maintained at the permittee's primary place of business or at a designated alternate location once the construction activity has ceased at the permitted site. This period may be extended by request of the EPD at any time upon written notification to the permittee.

33. Storm water samples shall be retrieved from the sampling point indicated on Sheet C6.0-C6.1 of this plan. Samples taken for the purpose of compliance with this permit shall be representative of the monitored activity and representative of the water quality of the receiving water(s) and/or the storm water outfalls using the following minimum guidelines:  
a. The upstream sample for each receiving water(s) must be taken immediately upstream of each outfall shall not exceed 75 NTUs. The turbidity was selected for a disturbed acreage of 1.04 acres and a drainage basin <49 square miles in a warm water fishery.

PAGE 7 OF 8

b. The downstream sample (i.e., the discharge farthest downstream at the site) but downstream of any other storm water discharge not associated with the permitted activity. Where appropriate, several downstream samples from across the receiving water(s) may need to be taken and the arithmetic average of the turbidity of these samples used for the downstream turbidity value.

c. Ideally the samples should be taken from the horizontal and vertical center of the receiving water(s) or the storm water outfall channel(s).

d. Care should be taken to avoid stirring the bottom sediments in the receiving water(s) or in the outfall storm water channel.

e. The sampling container should be held so that the opening faces upstream.

f. The samples should be kept free from floating debris.

g. Sheet flow that flows onto undisturbed natural areas or areas stabilized by the project is not required to be sampled. For purposes of this section, stabilized shall mean, for paved areas and areas not covered by permanent structures, at least 70% of the soil surface is uniformly covered in permanent vegetation or equivalent permanent stabilization measures (such as the use of rip rap, gabions, permanent mulches or geotextiles) have been employed. Permanent vegetation shall consist of: planted trees, shrubs, perennial vines, a crop of perennial vegetation appropriate for the Final stabilization applied to each phase of construction.

h. All sampling pursuant to this permit must be done in such a way (including generally accepted sampling methods, locations, timing and frequency) so as to accurately reflect whether storm water runoff from the construction site is in compliance with the standard set forth in Parts III.D.3. or III.D.4., whichever is applicable.

34. In accordance with Appendix B, the maximum NTUs from each outfall shall not exceed 75 NTUs. The turbidity was selected for a disturbed acreage of 1.04 acres and a drainage basin <49 square miles in a warm water fishery.

35. The sampling locations are depicted on Sheets C6.0-C6.1 of this plan.

36. This plan is phased into an initial sediment storage and perimeter control BMP plan, and intermediate grading and drainage BMP plan, and a final BMP plan as follows:  
Initial Phase: See Sheet C6.0 - Perimeter controls, construction exit, and sediment traps.  
Intermediate Phase: See C6.1 - Temporary grassing, slope stabilization, construction exit, and sediment traps.  
Final Phase: See Sheet C6.2 - Final stabilization/permanent grassing.

37. A graphic scale and north arrow are depicted on Sheets C6.0-C6.2.

38. Existing and proposed contour lines are depicted on Sheets C6.0-C6.2. Contour lines are drawn at an interval of 1'. The existing contour lines are based on topographic survey.

39. No alternate BMPs are proposed in this plan.

40. No alternate BMPs are proposed in this plan.

41. No state waters lie within 200' of the proposed project area.

42. No state waters or wetlands exist on the project site or within 200' of the project site.

43. Delineation of the contributing drainage basin is shown in the hydrology report submitted separately.

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44. A hydrology study and maps of drainage basins for both pre- and post-developed conditions will be shown in a hydrology report submitted separately.

45. The pre-construction curve number is estimated to be 70. The post-construction curve number is estimated to be 80.

46. Storm from this site will be discharged into existing city of Macon storm sewer system. Storm water from the city's system flows to the Ocmulgee River.

47. Soil series and their delineation are depicted on Sheet C6.0 of this plan.

48. The limits of disturbance is shown within the shaded area outlined by a dashed heavy gray line and labeled "limits of construction, limits of disturbance," as shown on C6.0-C6.1.

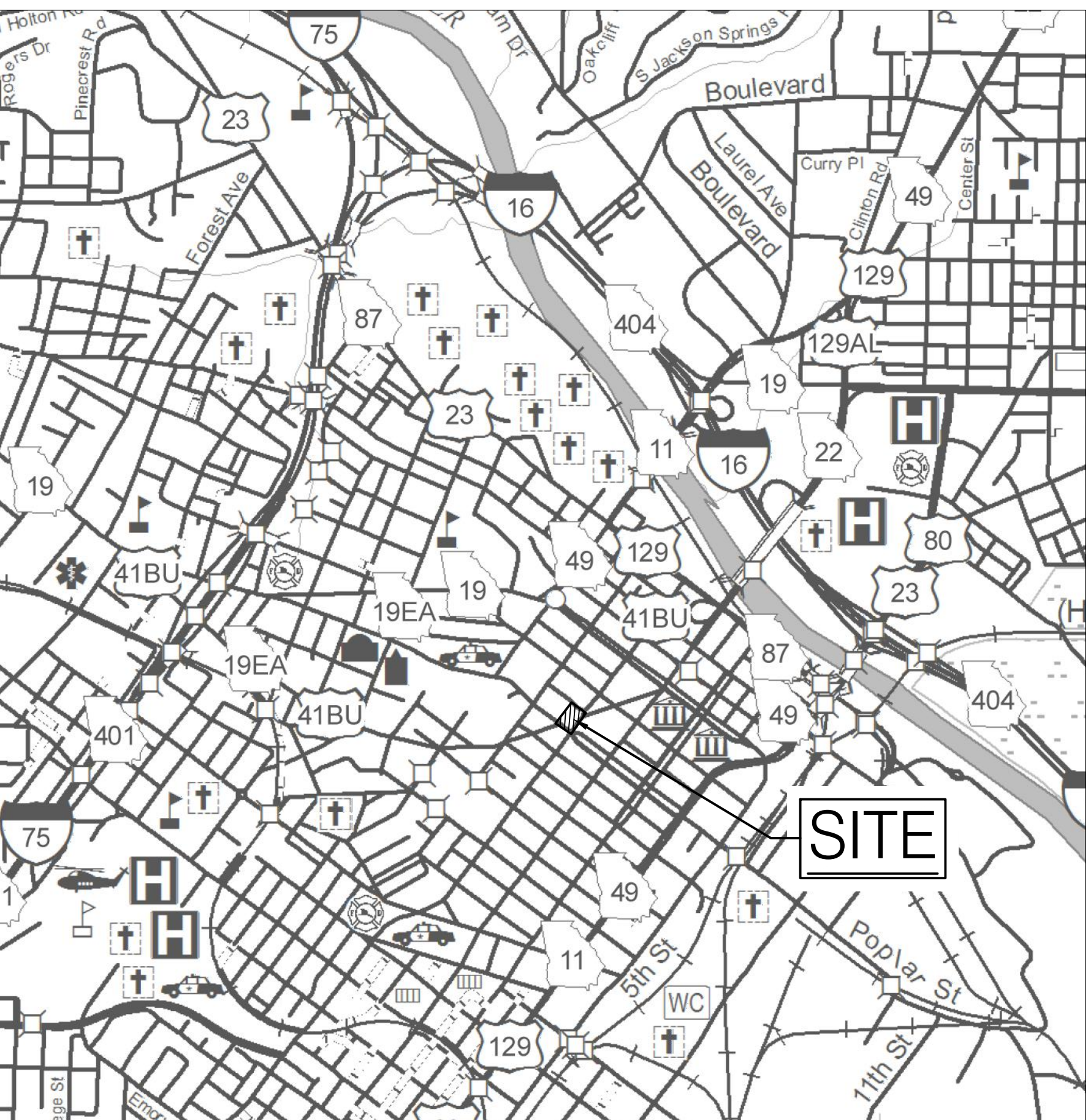
49. 67 cubic yards of sediment storage per disturbed acre drained will be stored in excavated inlet sediment traps & sediment traps. Sediment storage volume must be in place prior to and during all land disturbing activities until final stabilization has been achieved. Sediment storage capacities are shown on Sheet C6.0-C6.1.

50. Best management practices depicted on Sheets C6.0-C6.2 of this plan are consistent with the requirements of the Manual for Erosion and Sediment Control in Georgia. The legend for the BMPs can be found on C6.0-C6.2 of this plan.

51. Detailed drawings for all structural practices are depicted on C6.3 of this plan. The installation of these practices must, at a minimum, meet the guidelines set forth in the Manual for Erosion and Sediment Control in Georgia.

52. A vegetative plan, noting temporary and permanent vegetative practices, is depicted on Sheet C6.3 of this plan.

53. Delineation of the contributing drainage basin is shown on the hydrology report submitted separately.



VICINITY MAP

**GSWCC** GEORGIA SOIL AND WATER CONSERVATION COMMISSION

James D Wallace  
Level II Certified Design Professional

CERTIFICATION NUMBER: 02/01/2022 EXPIRES: 02/01/2025



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CONSULTANT LOGO:



CONSULTANT INFORMATION:

PROJECT TITLE:

**ROSA PARKS SQUARE RENOVATION PROJECT**  
POPLAR STREET  
MACON, GEORGIA  
MACON-BIBB COUNTY  
MACON, GEORGIA

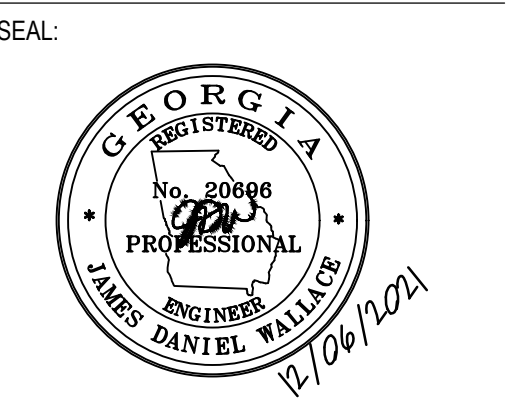
PROJECT NO:  
**21026**

PRINCIPAL IN CHARGE: TF  
PROJECT ARCHITECT: MW  
DRAWN BY:

ISSUE AND DATE:  
MARCH 26th, 2024

CONSTRUCTION DOCUMENTS  
ALTERNATE SCOPE

REVISIONS:  
NO. DATE DESCRIPTION



SHEET TITLE: NPDES

SHEET NO.:  
**C-6.4**

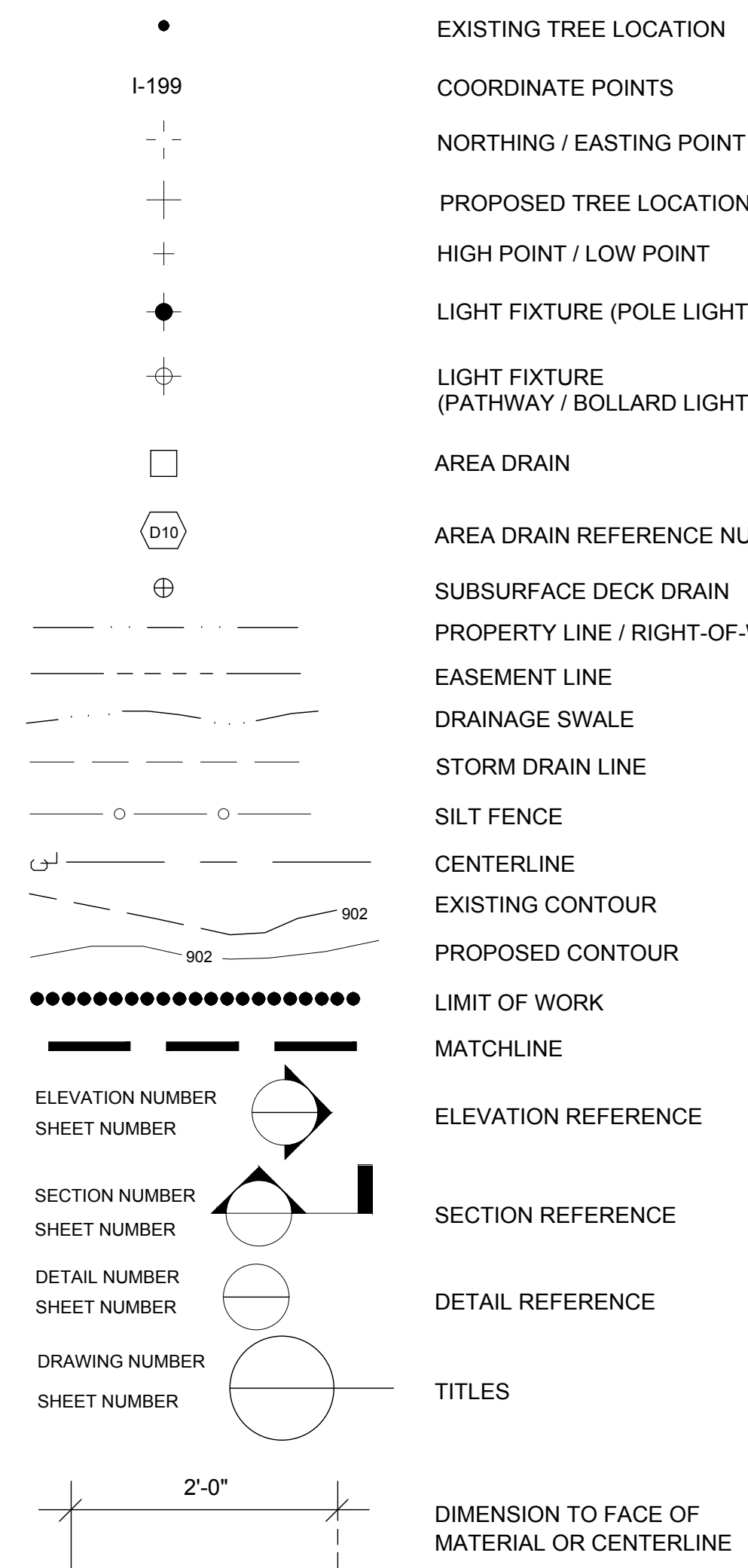
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Last modified on: 03/26/24 by NATE SHELTER  
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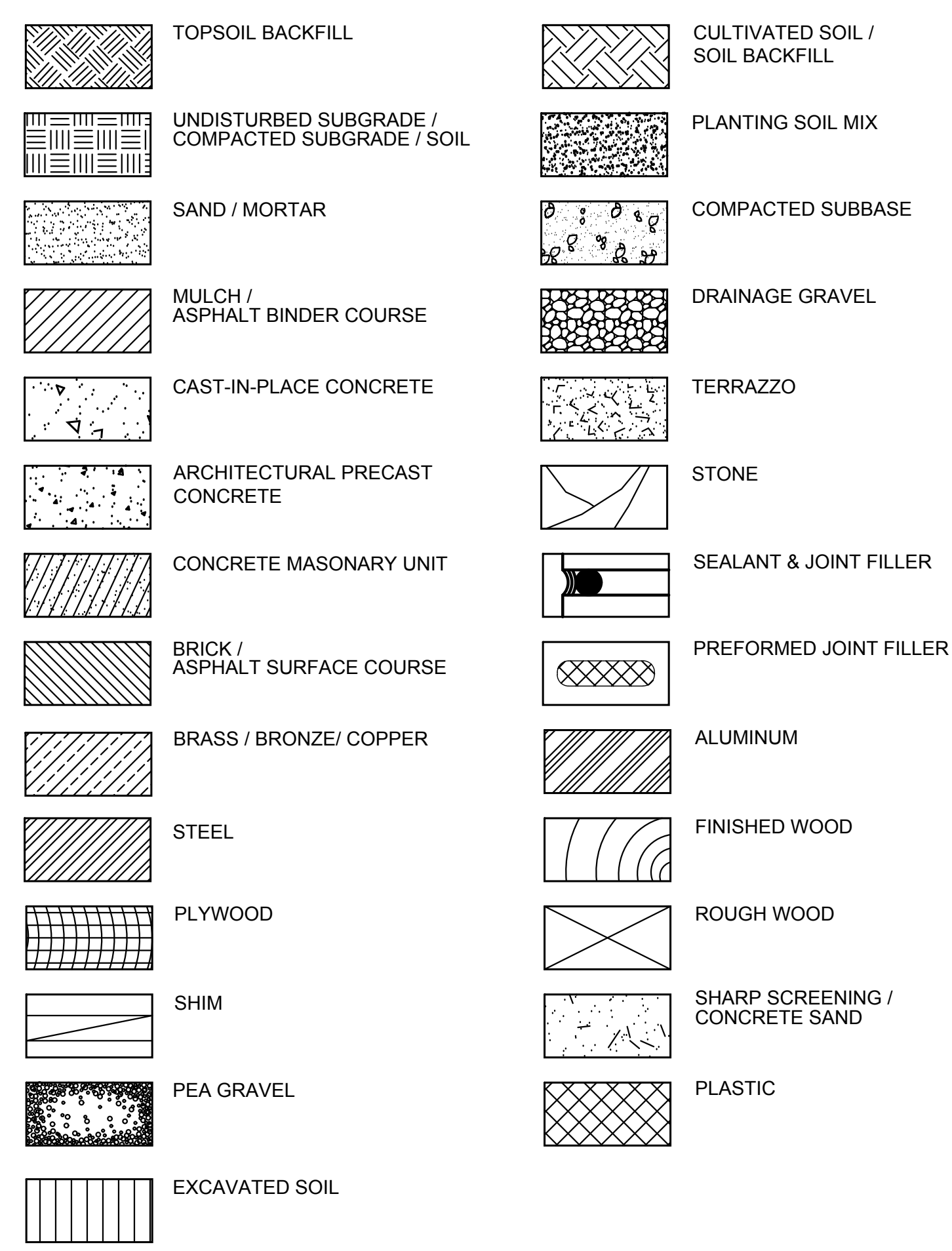
**ABBREVIATIONS:**

&	AND	INV	PIPE INVERT ELEVATION
@	AT	L	ANGLE SHAPE
AC	ACRE	LAM	LAMINATE(D)
ADJ	ADJACENT	LB	POUND
ALT	ALTERNATE	LS	LANDSCAPE
APPROX	APPROXIMATE	LONG	LONGITUDINAL
ARCH	ARCHITECT(URAL)	LP	LOW POINT
BLDG	BUILDING	MATL	MATERIAL
BOC	BOTTOM OF CURB	MAX	MAXIMUM
BOL	BOLLARD	MECH	MECHANICAL
BOT	BOTTOM	MEMB	MEMBRANE
BRS	BEARING	MH	MANHOLE
BRK	BRICK	MIN	MINIMUM (MINUTE)
BTWN	BETWEEN	MISC	MISCELLANEOUS
BW	BOTTOM OF WALL	MOD	MODIFIED
CB	CATCH BASIN	MP	MID POINT
CC	CENTER TO CENTER	N	NORTH
CJ	CONTROL JOINT	NIC	NOT IN CONTRACT
CL	CENTER LINE	NO	NUMBER
CMU	CONCRETE MASONRY UNIT	NOM	NOMINAL
COL	COLUMN	NTS	NOT TO SCALE
CONC	CONCRETE	OC	ON CENTER
CONST	CONSTRUCT(ION)	OD	OUTSIDE DIAMETER
CONT	CONTINUE(OUS)	OPP HD	OPPOSITE HAND
COORD	COORDINATE(D)	OPNG	OPENING
CTR	CENTER	OPP	OPPOSITE
CU	CUBIC	PART	PARTIAL
DI	DRAIN INLET	PD	PLAZA DRAIN
DIA	DIAMETER	PERF	PERFORATE(D)
DIV	DIVISION	PERIM	PERIMETER
DRN	DRAIN	PKG	PARKING
DRWG	DRAWING	P/L	PROPERTY LINE
E	EAST	PLUMB	PLUMBING
EA	EACH	PLYWD	PLYWOOD
EJ	EXPANSION JOINT	PR	PAIR
EL	SPOT ELEVATION	PREFAB	PREFABRICATE(D)
ELEC	ELECTRIC(AL)	PRELIM	PRELIMINARY
EOS	EDGE OF SLAB	PSF	POUNDS PER SQUARE FOOT
EOP	EDGE OF PAVEMENT	PSI	POUNDS PER SQUARE INCH
EQ	EQUAL	PT	PRESSURE TREATED
EXC	EXCAVATION	PVG	PAVING
EXCL	EXCLUDE(ED,ING)	PVMT	PAVEMENT
EXIST	EXISTING	QTY	QUANTITY
EXP	EXPOSED	R	RISER
EXPN	EXPANDED(ING,SION)	REF	REFER TO (REFERENCE)
EXT	EXTERIOR	REINF	REINFORCE(D,ING)
FD	FLOOR DRAIN	REQD	REQUIRED
FDTN	FOUNDATION	RH	RIGHT HAND
FF	FINISH FLOOR	RND	ROUND
FIN	FINISH	RP	RADIUS POINT
FIXT	FIXTURE	S	SOUTH
FOUNT	FOUNTAIN	SAN	SANITARY
FT	FOOT(FEET)	SCHED	SCHEDULE
FTG	FOOTING	SEC	SECTION
FURN	FURNISH	SIM	SIMILAR
GAL	GALLON	SPEC	SPECIFICATION
GALV	GALVANIZE(D)	SQ	SQUARE
GC	GENERAL CONTRACTOR	STD	STANDARD
GEN	GENERAL	T	TREAD
GFR	GLASS FIBER REINFORCED CONCRETE	T & G	TONGUE & GROOVE
GRDRL	GUARDRAIL	TD	TRENCH DRAIN
GRD	GRADE	THK	THICK(NESS)
GRND	GROUND	THRU	THROUGH
HB	HOSE BIBB	TOPO	TOPOGRAPHIC MAP
HC	HANDICAPPED	TOC	TOP OF CURB
HNDRL	HANDRAIL	TOS	TOP OF SLAB
HORIZ	HORIZONTAL	TW	TOP OF WALL
HP	HIGH POINT	TYP	TYPICAL
HT	HEIGHT	VERT	VERTICAL
HYD	HYDRANT	W	WEST
ID	INSIDE DIAMETER (DIMENSION)	W/	WITH
INCL	INCLUDE(D,ING)	W/O	WITHOUT
INFO	INFORMATION	WP	WORK POINT
INT	INTERIOR	WWF	WELDED WIRE FABRIC
IRR	IRRIGATION	YD	YARD(S)

**SYMBOLS:**



**MATERIALS LEGEND:**




**GENERAL LIGHTING NOTES:**

- THIS DRAWING IS FOR LAYOUT OF FIXTURES ONLY.
- THE DRAWINGS INDICATE DESIGN INTENT ONLY. THEY DO NOT REFLECT AND/OR DEPICT ELECTRICAL DESIGN. THEY ARE NOT INTENDED TO SHOW THE EXACT LOCATION OF ELECTRICAL COMPONENTS, ETC. OR THE ROUTING OF CONDUIT.
- NOTIFY THE LANDSCAPE ARCHITECT IN WRITING OF CONDITIONS ENCOUNTERED IN THE FIELD CONTRADICTORY TO THOSE SHOWN ON THE DRAWINGS.
- THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL CONSTRUCTION ACTIVITIES RELATED TO THIS LIGHTING LAYOUT.
- THE CONTRACTOR IS RESPONSIBLE FOR ELECTRICAL WORK THAT COMPLIES WITH ALL STATE OF GEORGIA, MACON-BIBB COUNTY, OTHER LOCAL BUILDING CODES HAVING JURISDICTION, AND THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE.
- THE CONTRACTOR SHALL OBTAIN ALL PERMITS AND LICENCES AND PAY ALL FEES REQUIRED BY LOCAL AUTHORITIES. ARRANGE FOR ALL NECESSARY INSPECTIONS REQUIRED BY THE AUTHORITIES HAVING JURISDICTION AND PROVIDE WRITTEN CERTIFICATES OF APPROVAL TO THE OWNER.
- ALL SYSTEMS, EQUIPMENT, COMPONENTS, WORK, ETC. SHALL BE COVERED BY A ONE (1) YEAR GUARANTEE BEGINNING AT THE DATE OF SUBSTANTIAL COMPLETION. THE GUARANTEE SHALL INCLUDE PROVIDING ALL NECESSARY CUTTING, PATCH WORK, REPAINTING, ETC. TO MAKE THE WORK COMPLETE AND NEW.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES TO EXISTING UTILITIES, STRUCTURES, PAVING, LANDSCAPE MATERIALS AND/OR WORK OF OTHER TRADES RESULTING FROM ELECTRICAL WORK.
- SOURCE OF POWER SHALL BE DETERMINED BY OWNER. CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF ELECTRICAL CONNECTION AND WIRING TO THE SOURCE WITH THE OWNER PRIOR TO CONSTRUCTION AND PRIOR TO ORDERING MATERIALS. ALL MATERIALS USED SHALL BE NEW AND SHALL BE STAMPED WITH THE LABEL OF UNDERWRITERS LABORATORIES, INC. (UL).
- REFER TO LIGHT FIXTURE SCHEDULE FOR FIXTURE TYPE INDICATION (LETTER) AND SYMBOL DESCRIPTION.
- CONTRACTORS SHALL PROVIDE AND INSTALL ALL FIXTURES, WIRING TO POWER SOURCE, ELECTRICAL CONNECTION, AND OTHER NECESSARY ELECTRICAL HARDWARE FOR A COMPLETE AND OPERABLE LIGHTING SYSTEM.
- PROVIDE AND INSTALL GROUND MOUNTED PULL BOXES EVERY 200 FEET IN HOMERUN CIRCUITS. LOCATIONS SHALL BE COORDINATED WITH OTHER SITE IMPROVEMENTS AND APPROVED BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
- PROVIDE LOOPED SLACK EQUAL TO THREE (3) FEET, IN WIRE RUNS TO LANDSCAPE LIGHTING FIXTURES TO ALLOW FOR ADJUSTMENTS ONCE PLANT MATERIAL IS INSTALLED.
- THE CONTRACTOR SHALL MAKE ADJUSTMENTS IN FIXTURE LAYOUT, AIM FIXTURES AND LOCK DOWN ANY ADJUSTING FASTENERS ON FIXTURES SUBJECT TO THE FINAL APPROVAL OF LAYOUT AND AIMING BY THE LANDSCAPE ARCHITECT.
- PROTECT ALL EQUIPMENT, COMPONENTS, ETC. DURING CONSTRUCTION FROM DIRT, CHEMICAL, AND MECHANICAL DAMAGE, ETC.. PROTECT ALL CONDUIT OPENINGS SO THAT NO FOREIGN MATERIAL WILL ENTER THE CONDUIT.

**GENERAL LAYOUT NOTES:**

- BASE TOPOGRAPHICAL AND EXISTING CONDITIONS TAKEN FROM DRAWING FURNISHED BY DONALDSON, GARRETT & ASSOCIATES, INC. DATED: 8/18/2016.
- DO NOT SCALE THESE DRAWINGS.
- UTILITY WORK IS NOT INDICATED ON THIS DRAWING. REFER TO CIVIL DRAWINGS FOR WORK RELATED TO UTILITIES.
- ALL CURVES TO BE TRUE RADII WITHOUT STRAIGHT SEGMENTS.
- ALL ANGLES ARE 90 DEGREES UNLESS OTHERWISE NOTED.
- DIMENSIONS ARE FROM BACK OF CURB, TO FACE OF WALL, TO OUTSIDE EDGE OF PAVEMENTS; FROM COLUMN CENTERLINES TO HARDSCAPE CENTERLINES, TO CENTERLINE OF PAVEMENTS, TO OUTSIDE EDGE OF PAVEMENTS, TO CENTERLINES OF STAIRS, FROM EDGE OF PAVEMENT TO FACE OF WALL.
- CHANGES IN LAYOUT MAY BE MADE AT THIS TIME TO ACCOMMODATE DESIGN INTENT OR FIELD CONDITIONS. NO ADDITIONAL PAYMENT WILL BE MADE TO THE CONTRACTOR FOR THIS WORK.
- THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS PRIOR TO CONSTRUCTION.
- NOTIFY THE OWNER OR LANDSCAPE ARCHITECT IN WRITING OF CONDITIONS ENCOUNTERED IN THE FIELD CONTRADICTORY TO THOSE SHOWN ON THE DRAWINGS.
- ALL WALLS, COLUMNS, SIDEWALKS, PATHWAYS, FENCES, AND STAIRWAYS SHALL BE COMPLETELY LAID OUT AND STAKED WITH VISIBLE MARKERS. THE STAKES SHALL BE APPROVED IN THE FIELD BY LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT 48 HOURS PRIOR TO SITE VISIT.
- BENCH AND LITTER RECEPTACLE LAYOUT SHOWN IS APPROXIMATE. LAYOUT TO BE APPROVED IN THE FIELD BY LANDSCAPE ARCHITECT.

**GENERAL GRADING NOTES:**

- THE CONTRACTOR SHALL COMPLY WITH ALL EROSION CONTROL REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION.
- THE CONTRACTOR SHALL COMPLY WITH REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION TO MAINTAIN STABLE AND SAFE EXCAVATIONS.
- THE CONTRACTOR SHALL INSTALL TREE PROTECTION FENCE INDICATED ON THE DRAWINGS PRIOR TO COMMENCING GRADING WORK. LEAVE PROTECTION IN PLACE AND MAINTAIN UNTIL CONSTRUCTION WORK HAS BEEN COMPLETED AND ALL DANGER OF DAMAGE HAS PASSED OR AS OTHERWISE DIRECTED BY THE OWNER.
- GRADING AND CONSTRUCTION IN PROXIMITY OF EXISTING TREES INDICATED ON THE DRAWINGS TO REMAIN OR WITHIN TREE PROTECTION AREAS SHALL BE DONE WITH EXTREME CARE SO AS NOT TO DAMAGE THE ROOT SYSTEM OF TREES AND TO COMPACT SOIL IN THE AREA.
- NO GRADING AND CONSTRUCTION IS TO OCCUR WITHIN A 10 FOOT RADIUS FROM ANY TREE TRUNK.
- FINISH GRADING IN TREE PROTECTION AREA INDICATED ON THE DRAWINGS SHALL BE DONE UNDER DIRECT SUPERVISION OF THE LANDSCAPE ARCHITECT IN THE FIELD. THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT 48 HOURS PRIOR TO THIS SITE VISIT.
- REFER TO DETAIL  FOR TREE PROTECTION.

**NOTES & ABBREVIATIONS**  
SCALE: 1:10



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CONSULTANT LOGO:

CONSULTANT INFORMATION:

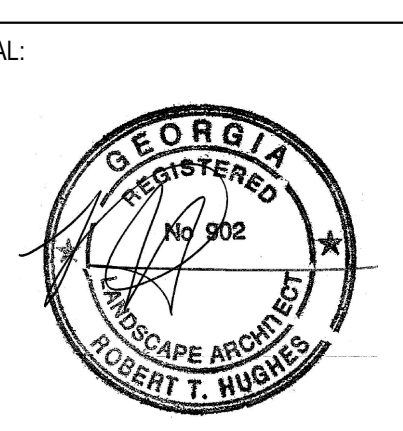
PROJECT TITLE:

**ROSA PARKS SQUARE RENOVATION  
PROJECT - ADD ALTERNATE SCOPE**  
POPULAR STREET  
MACON, GEORGIA  
MACON-BIBB COUNTY  
MACON, GEORGIA

PROJECT NO:  
**21026**  
PRINCIPAL IN CHARGE: TF  
PROJECT MANAGER: MW  
DRAWN BY: MW

ISSUE AND DATE:  
November 11th, 2021  
CONSTRUCTION DOCUMENTS

NO.	DATE	DESCRIPTION
1	04-05-2024	Revision 1



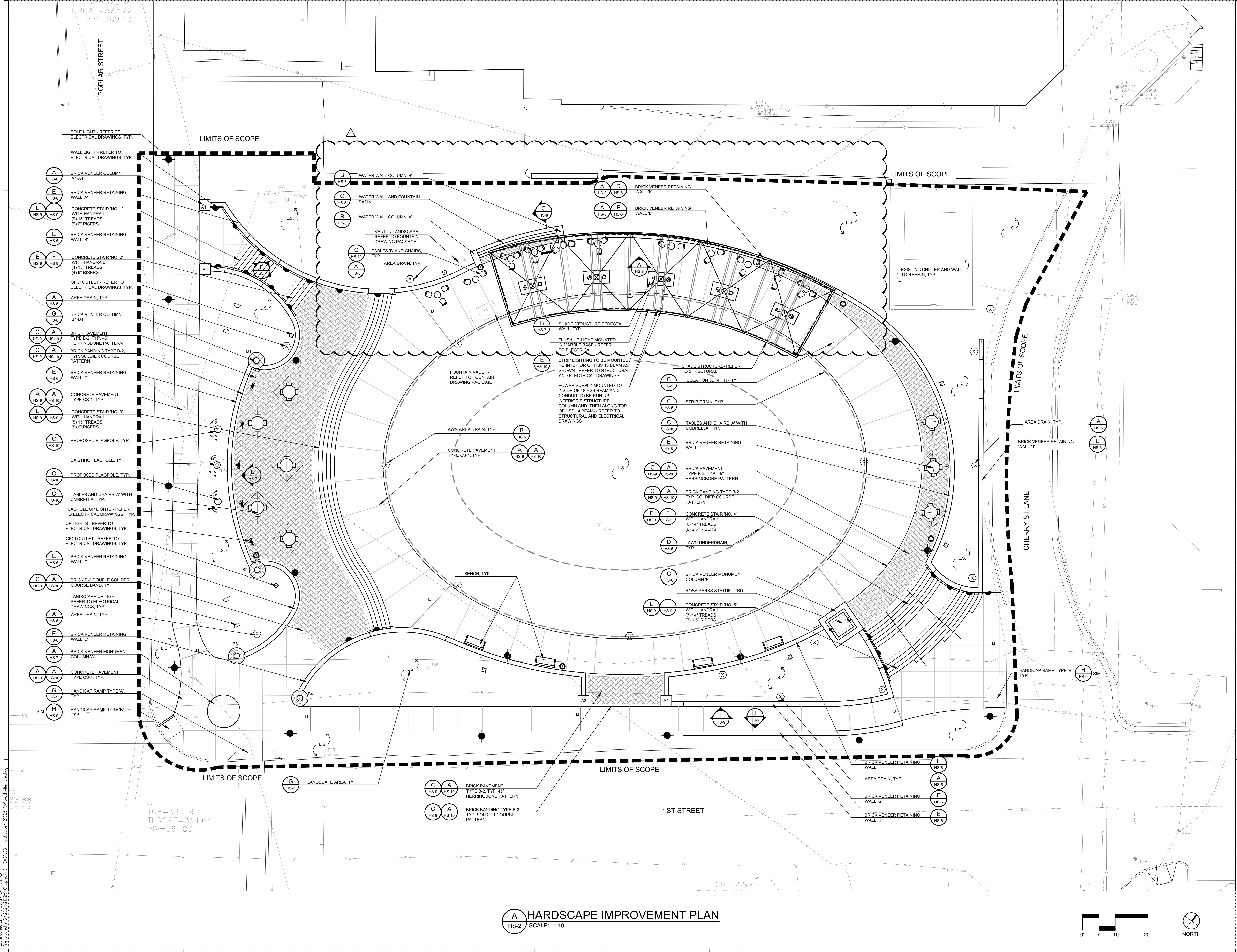
SHEET TITLE:  
**NOTES & ABBREVIATIONS**

SHEET NO.:  
**HS-1**

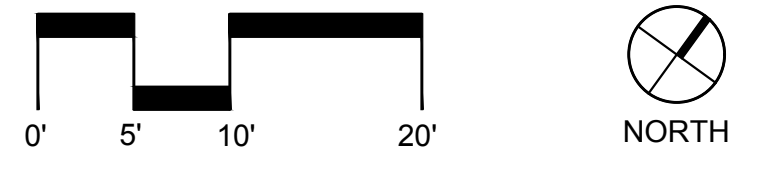
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NO.	DATE	DESCRIPTION
1	04-05-2024	Revision 1



**A HARDSCAPE IMPROVEMENT PLAN**  
 HS-2 SCALE: 1:10



User modified on 04/08/24 by: WKNIGHT  
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CONSULTANT LOGO:

CONSULTANT INFORMATION:

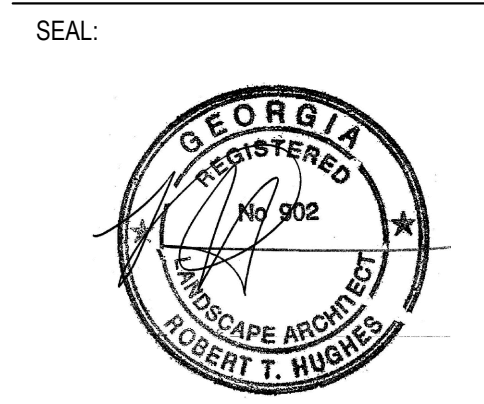
PROJECT TITLE:

**ROSA PARKS SQUARE RENOVATION  
 PROJECT - ADD ALTERNATE SCOPE**  
 POPLAR STREET  
 MACON, GEORGIA  
 MACON-BIBB COUNTY  
 MACON, GEORGIA

PROJECT NO:  
**21026**  
 PRINCIPAL IN CHARGE: TF  
 PROJECT MANAGER: MW  
 DRAWN BY: MW

ISSUE AND DATE:  
 November 11th, 2021  
 CONSTRUCTION DOCUMENTS

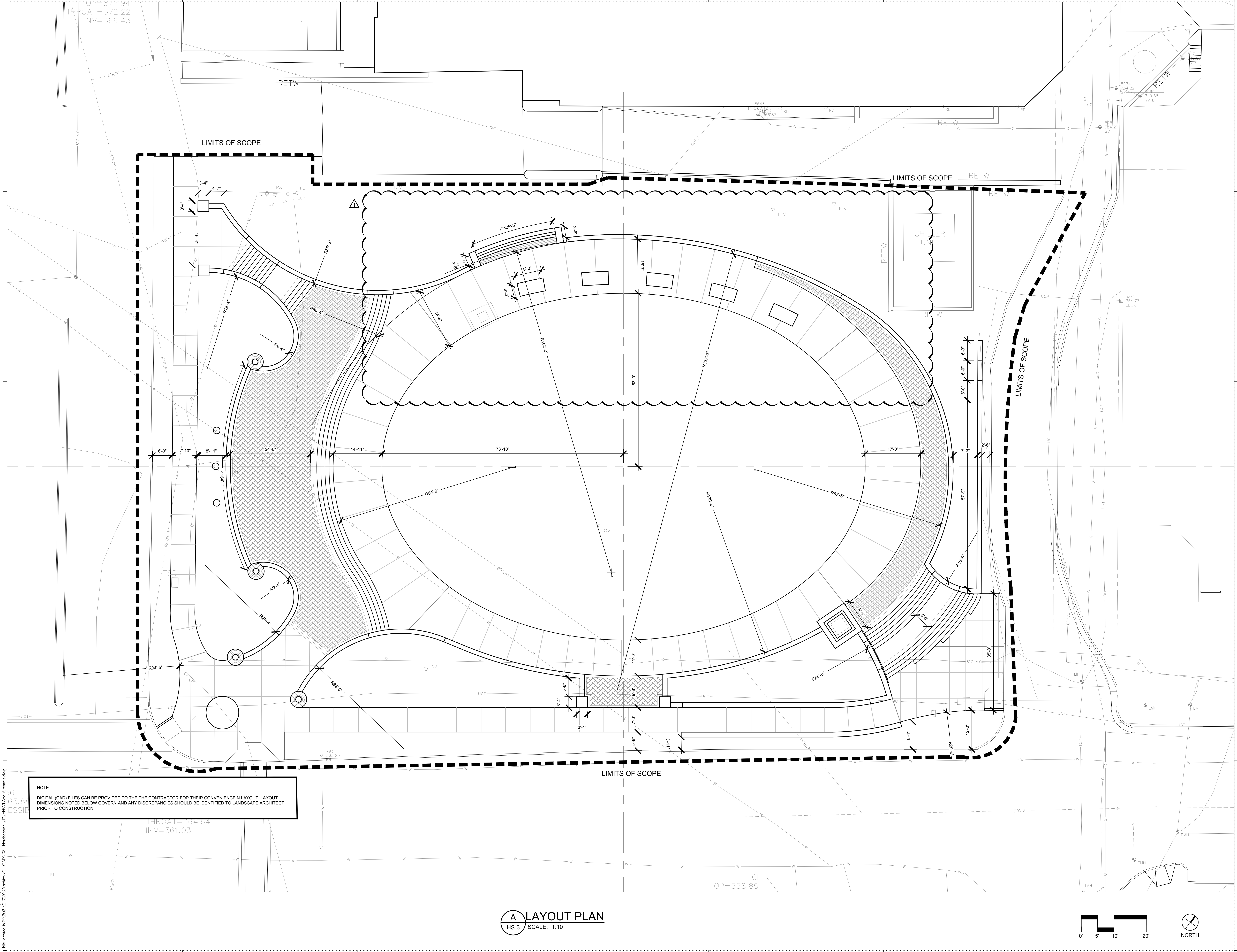
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**LAYOUT PLAN**

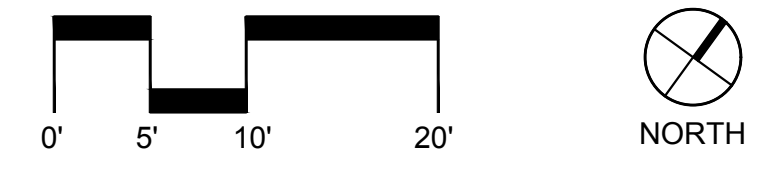
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**HS-3**

RELEASED FOR CONSTRUCTION



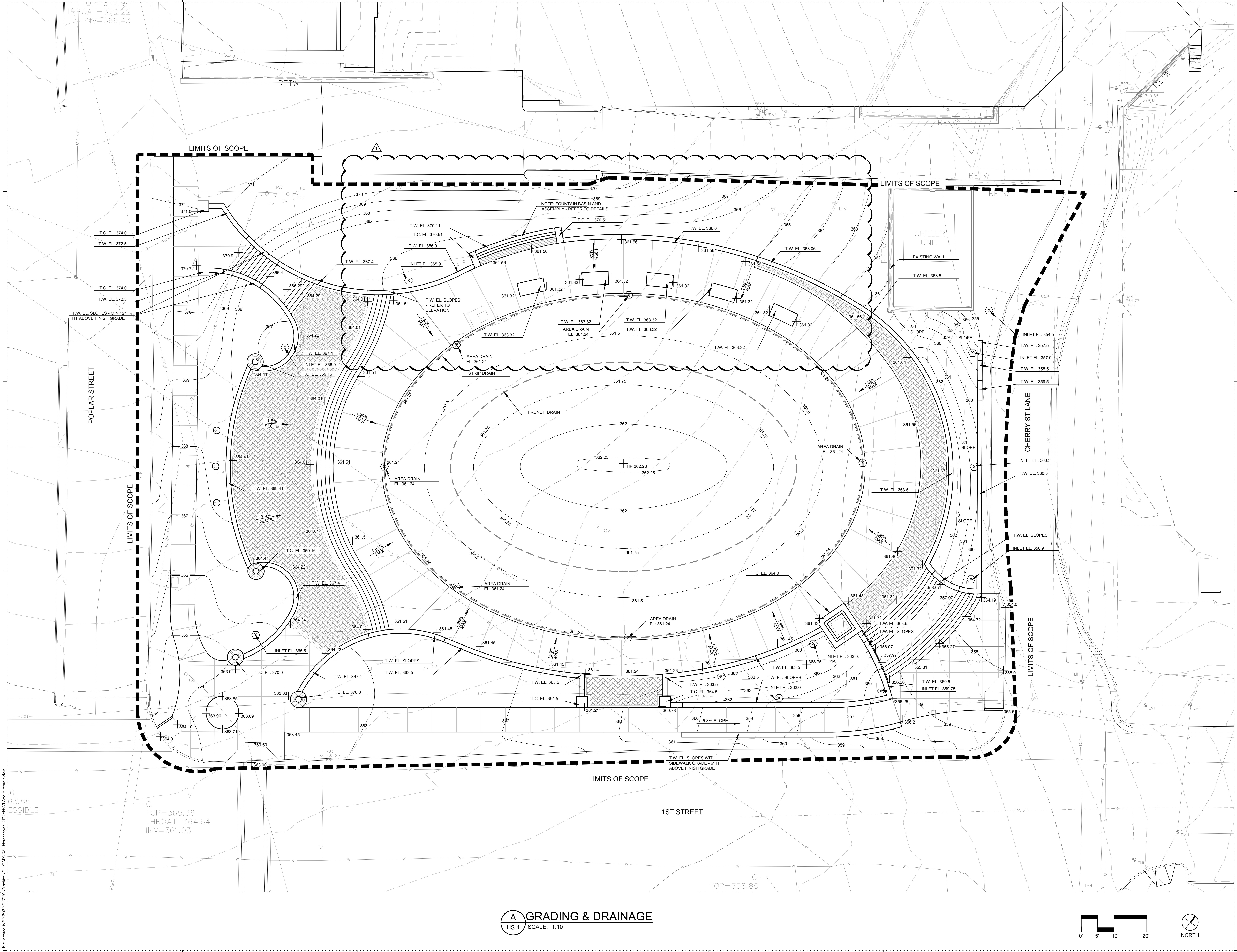
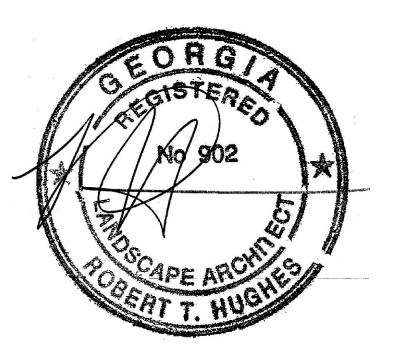
**NOTE:**  
 DIGITAL (CAD) FILES CAN BE PROVIDED TO THE CONTRACTOR FOR THEIR CONVENIENCE IN LAYOUT. LAYOUT DIMENSIONS NOTED BELOW GOVERN AND ANY DISCREPANCIES SHOULD BE IDENTIFIED TO LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION.

**A LAYOUT PLAN**  
 HS-3 SCALE: 1:10

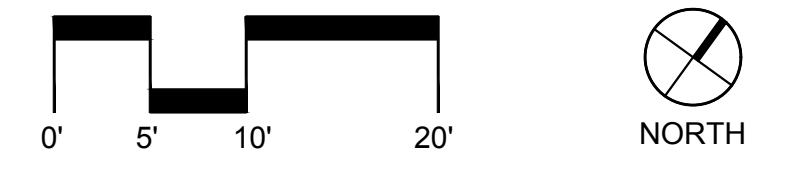


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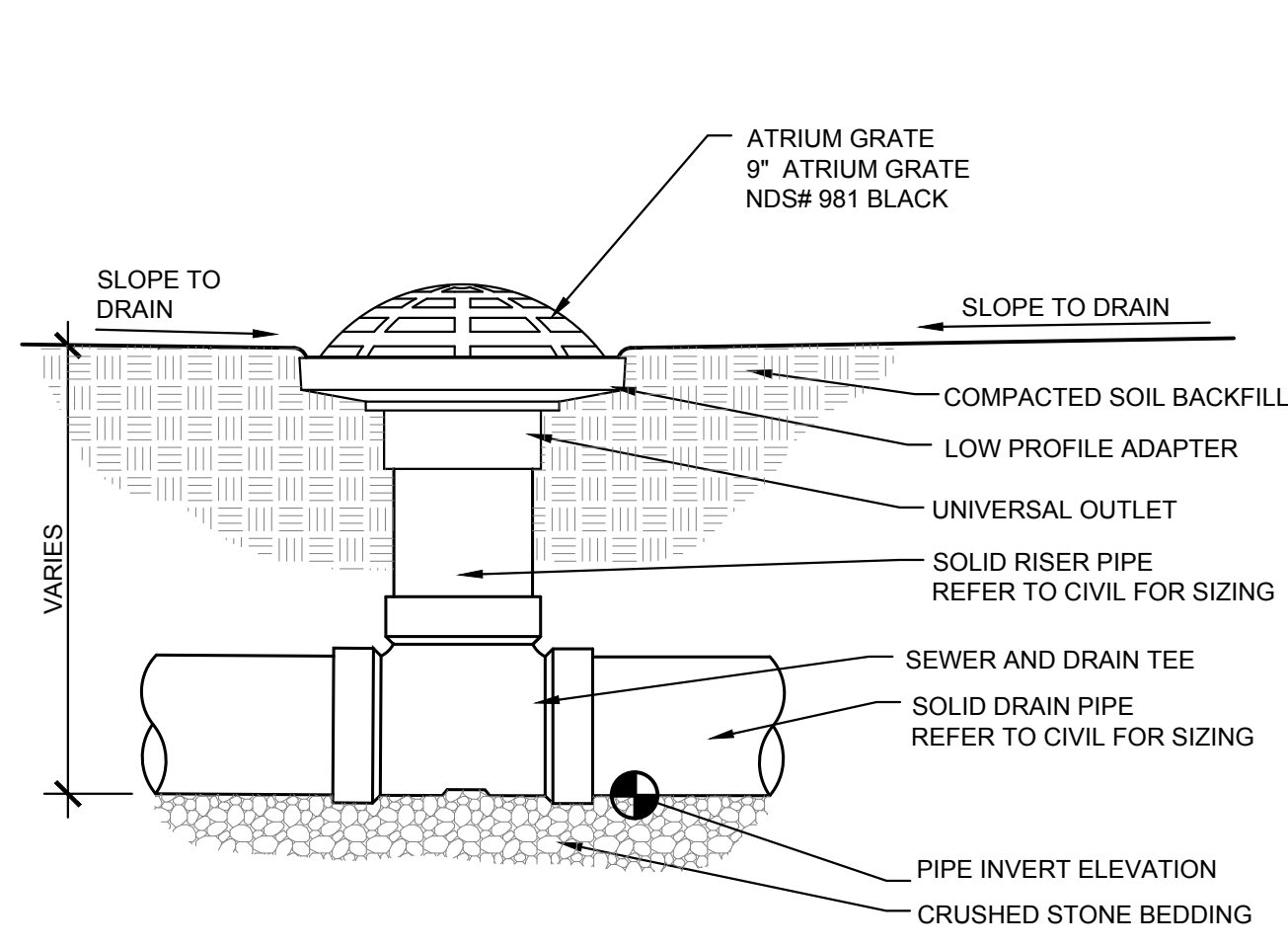
REVISIONS:	NO.	DATE	DESCRIPTION
	1	04-05-2024	Revision 1



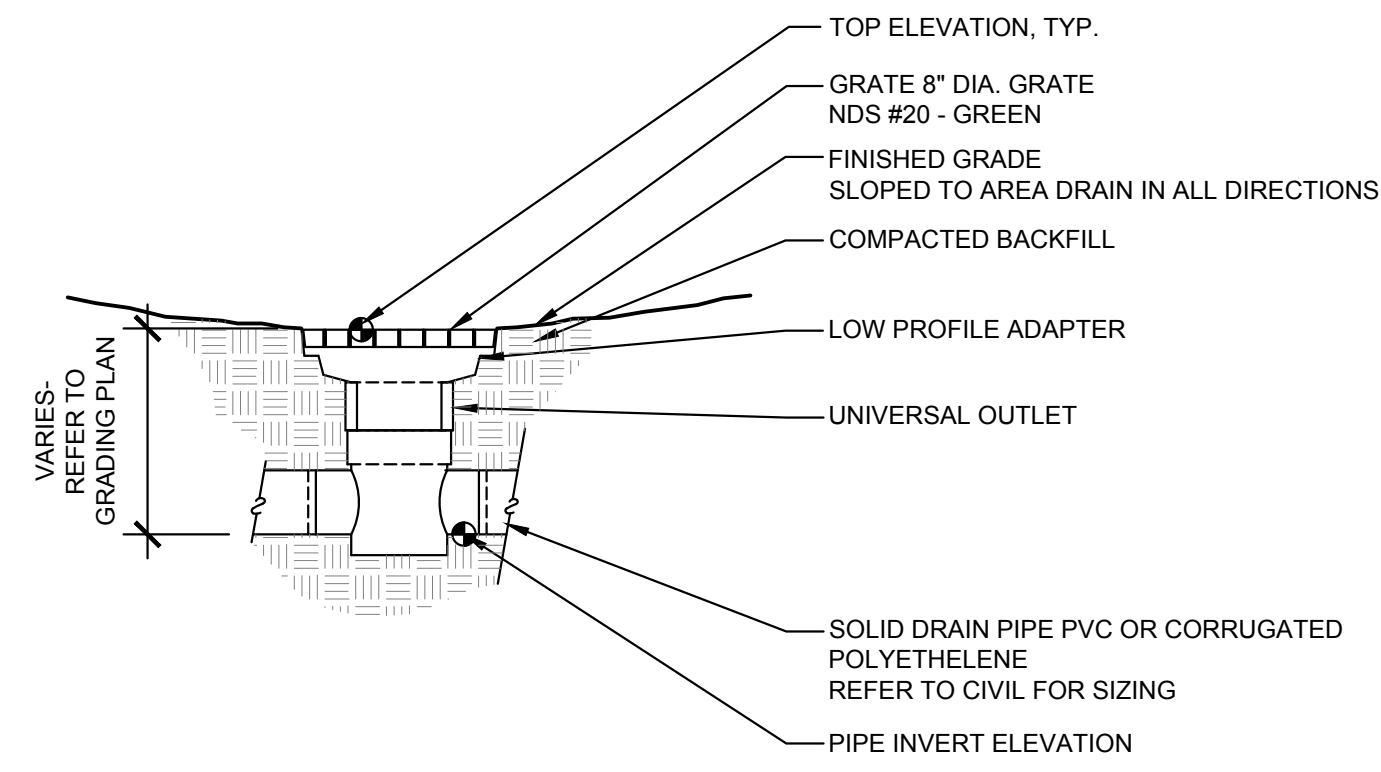
**A GRADING & DRAINAGE**  
 HS-4 SCALE: 1:10



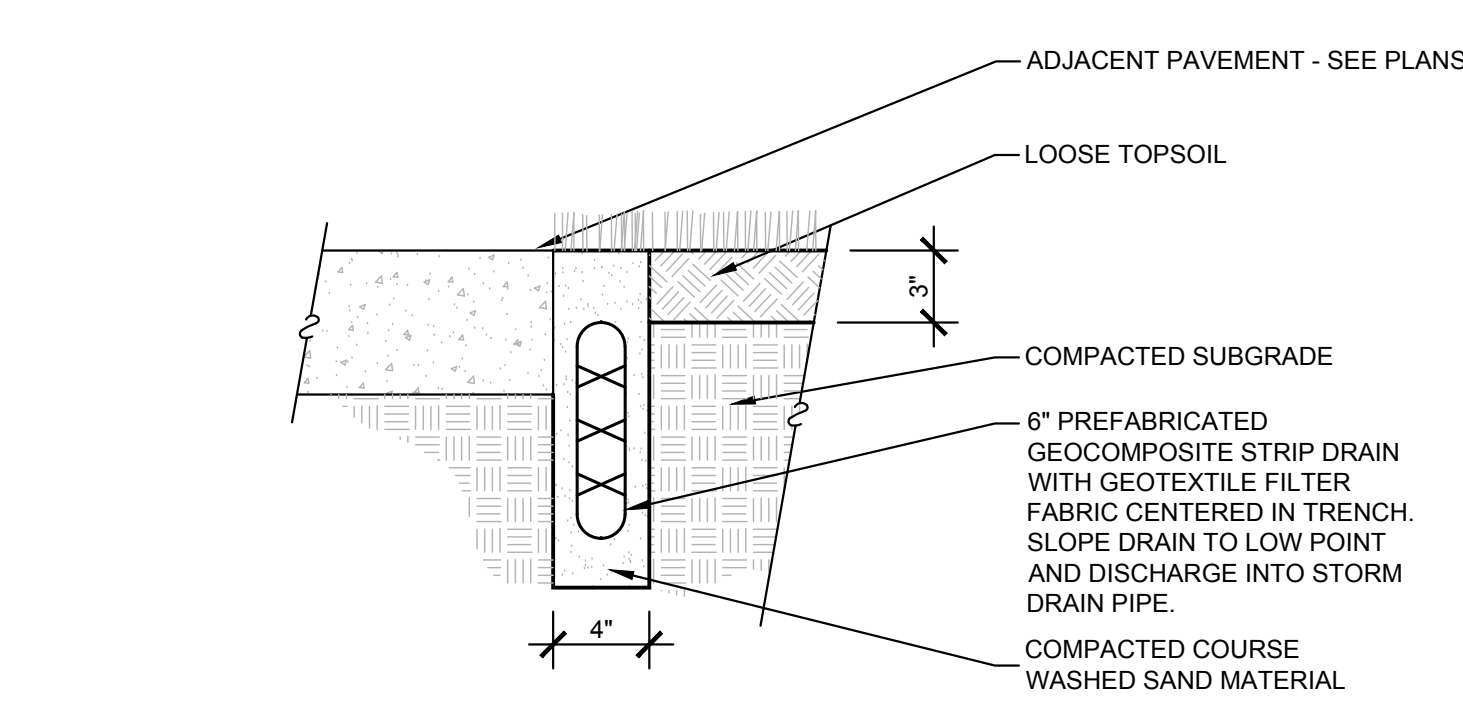
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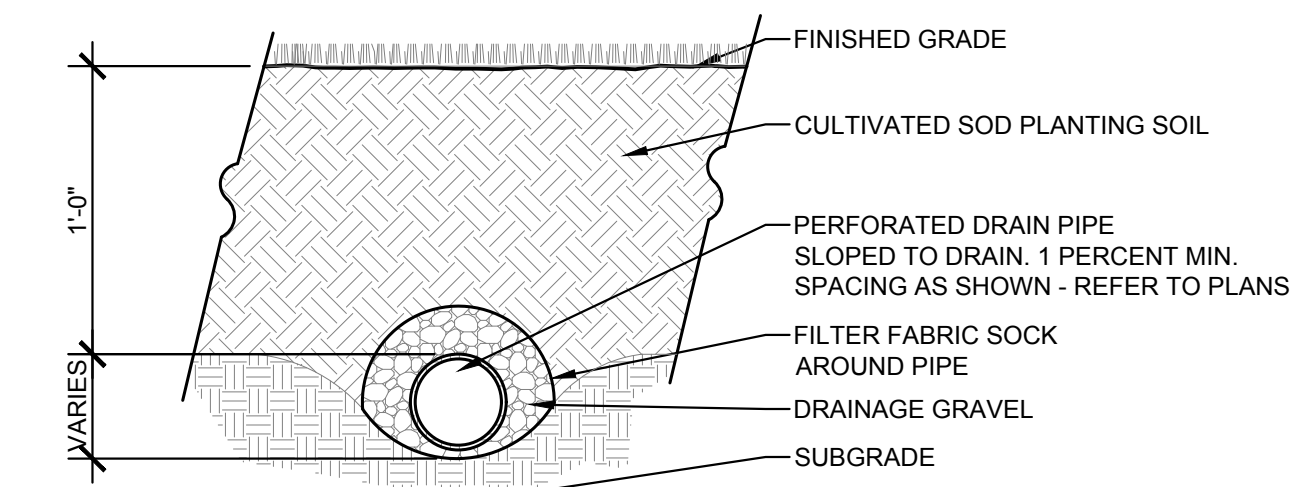
**A** AREA DRAIN AT LANDSCAPE BEDS - SECTION  
 HS-5 SCALE: 1-1/2"=1'-0"



**B** AREA DRAIN AT LAWN AREAS - SECTION  
 HS-5 SCALE: 1"=1'-0"



**C** STRIP DRAIN - SECTION  
 HS-5 SCALE: 1-1/2"=1'-0"



**D** LAWN UNDERDRAIN - SECTION  
 HS-5 SCALE: 1-1/2"=1'-0"

**NOTES:**

- PROVIDE AND INSTALL PREFABRICATED AREA DRAIN SYSTEM:  
 MANUFACTURER: NATIONAL DIVERSIFIED SALES INC. (NDS) (800)726-1998  
 PRODUCT: EXTERIOR SURFACE DRAINAGE PRODUCTS, POLYETHYLENE
- PRODUCT SUBSTITUTION REQUESTS SHALL BE SUBMITTED BY THE CONTRACTOR WITHIN 60 DAYS AFTER COMMENCEMENT OF THE WORK. SUBMIT PRODUCT DATA TO LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO ORDERING, PURCHASING, AND INSTALLATION OF THE PRODUCT.

**NOTES:**

- PROVIDE AND INSTALL PREFABRICATED GEOCOMPOSITE STRIP DRAIN SYSTEM:  
 MANUFACTURER: VARICORE TECHNOLOGIES INC. (800)978-8007.  
 PRODUCT: MULTI-FLOW DRAINAGE SYSTEMS
- PRODUCT SUBSTITUTION REQUESTS SHALL BE SUBMITTED BY THE CONTRACTOR WITHIN 60 DAYS AFTER COMMENCEMENT OF THE WORK. SUBMIT PRODUCT DATA TO LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO ORDERING, PURCHASING, AND INSTALLATION OF PRODUCT.
- COARSE SAND SHALL HAVE A PARTICLE SIZE DISTRIBUTION OF LESS THAN 5% RETAINED ON A #10 SIEVE SIZE AND LESS THAN 5% PASSING A #30 SIEVE SIZE.



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 f. 404-248-1092

CONSULTANT LOGO:

CONSULTANT INFORMATION:

PROJECT TITLE:

**ROSA PARKS SQUARE RENOVATION  
 PROJECT - ADD ALTERNATE SCOPE**

POPLAR STREET  
 MACON, GEORGIA  
 MACON-BIBB COUNTY  
 MACON, GEORGIA

PROJECT NO:  
**21026**

PRINCIPAL IN CHARGE: TF  
 PROJECT MANAGER: MW  
 DRAWN BY: MW

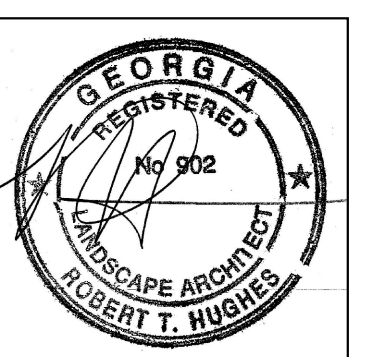
ISSUE AND DATE:  
 November 11th, 2021

CONSTRUCTION DOCUMENTS

REVISIONS:

NO.	DATE	DESCRIPTION
1	04-05-2024	Revision 1

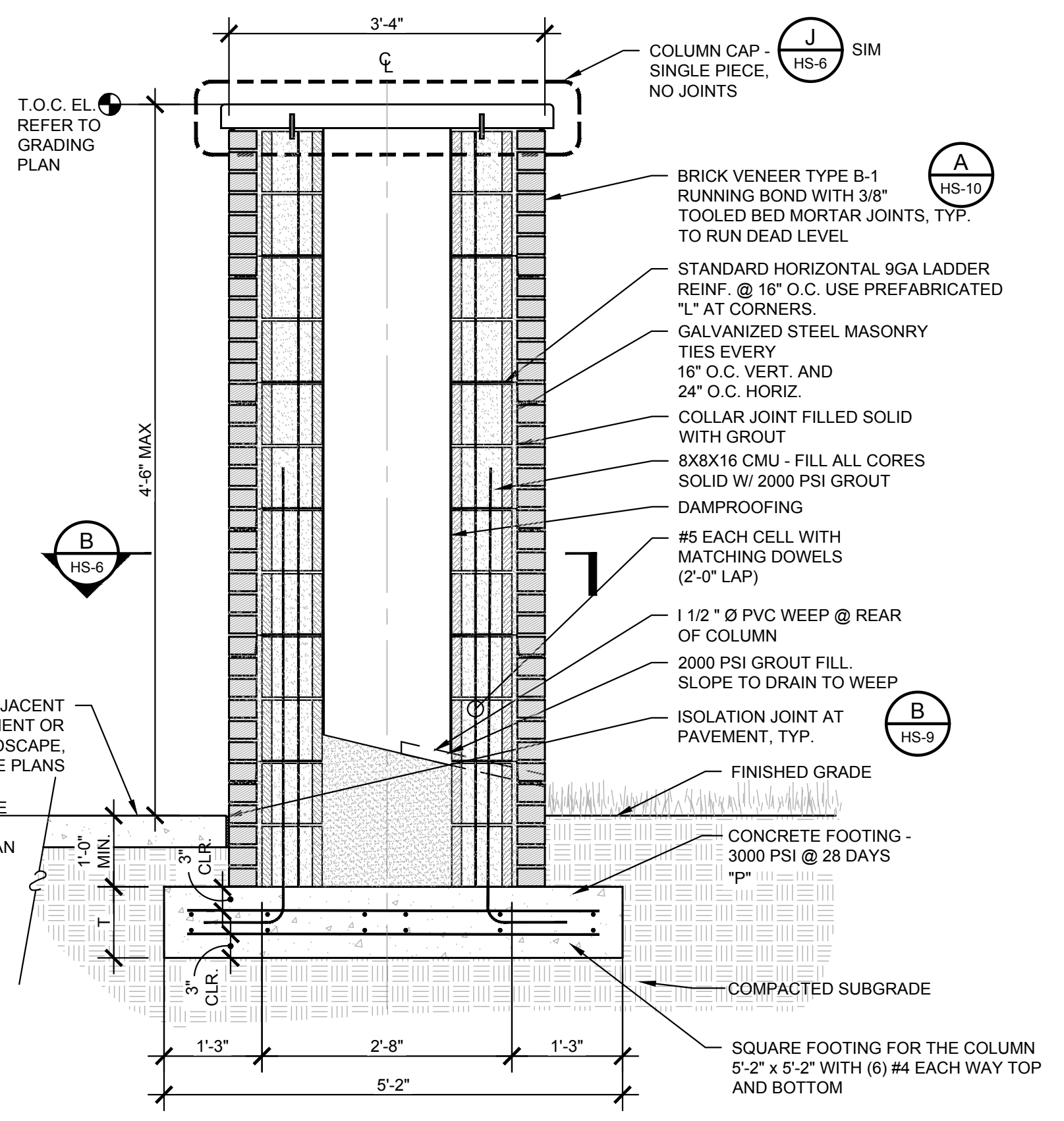
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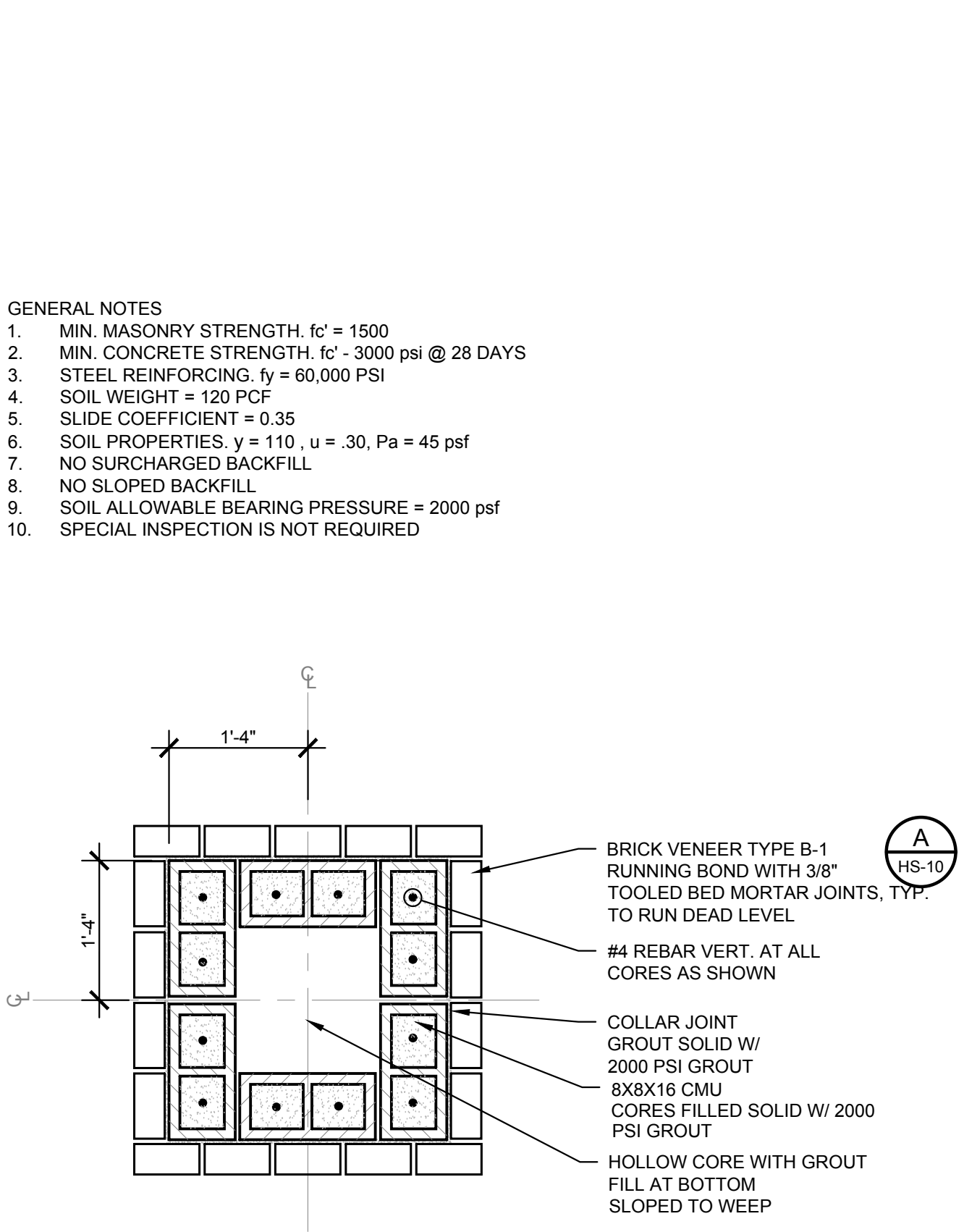
SHEET TITLE:  
**HARDSCAPE  
 DETAILS**

SHEET NO:  
**HS-5**

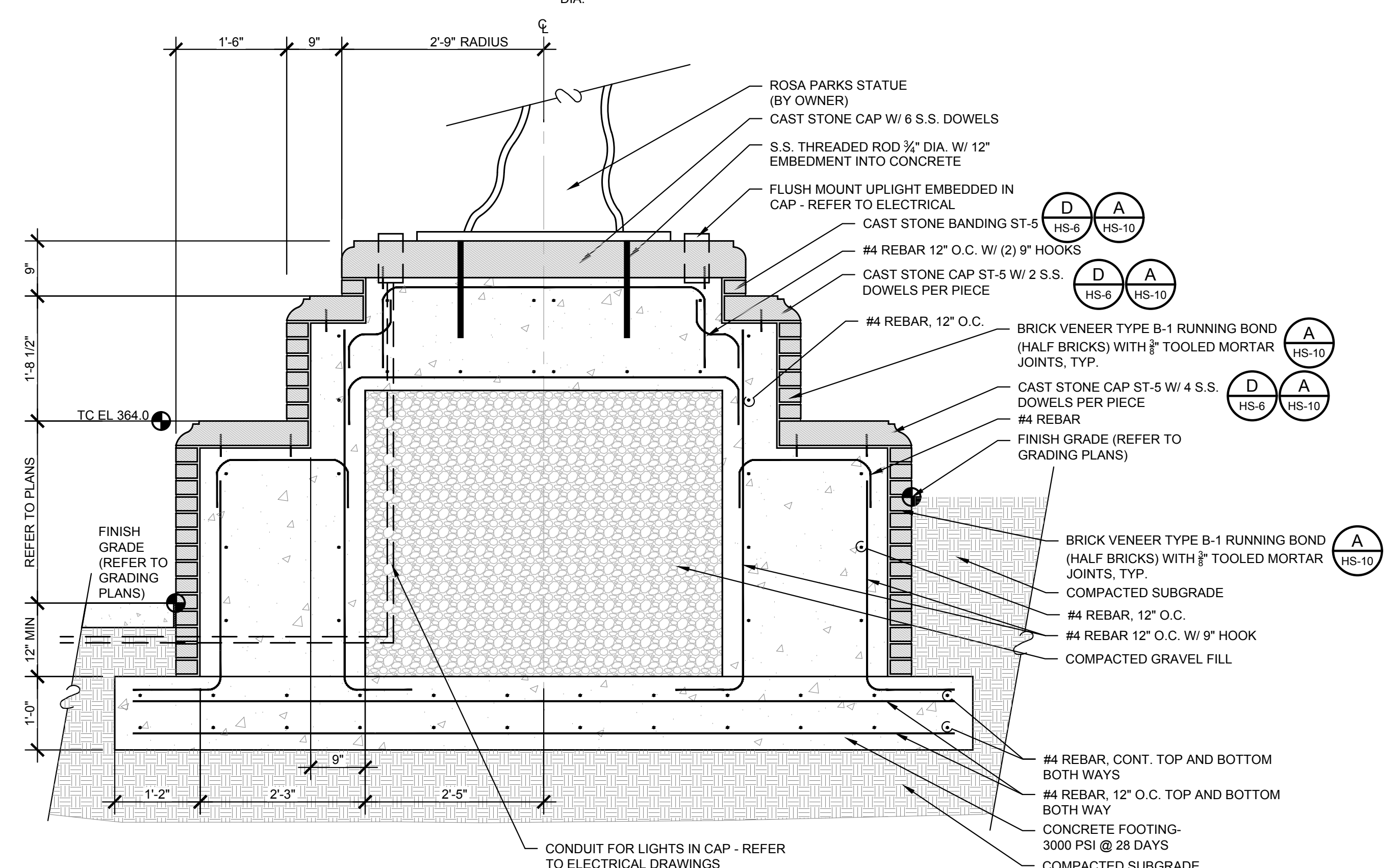
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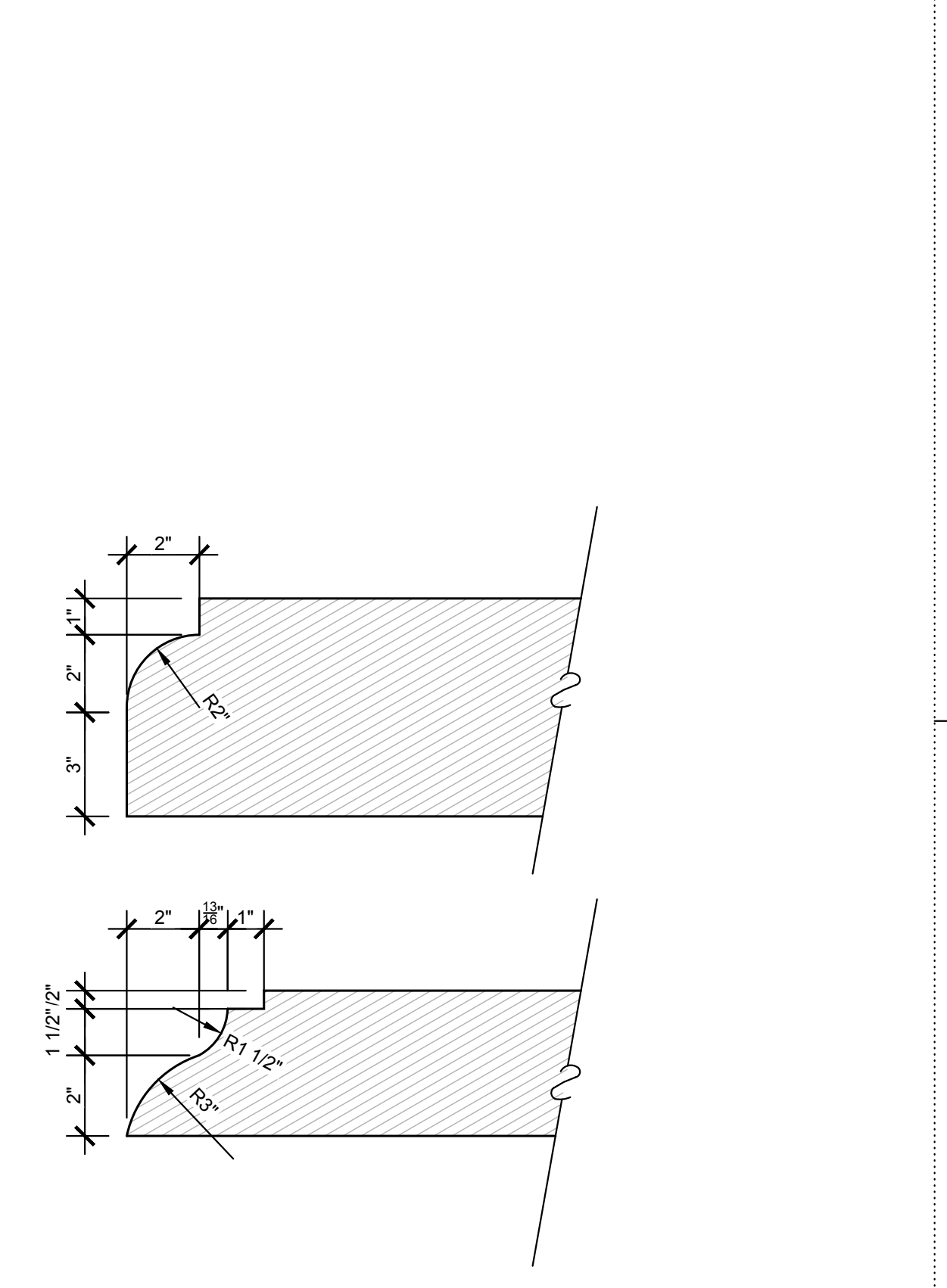
**A BRICK VENEER COLUMN 'A' - SECTION**  
 HS-6 SCALE: 3/4" = 1'-0"



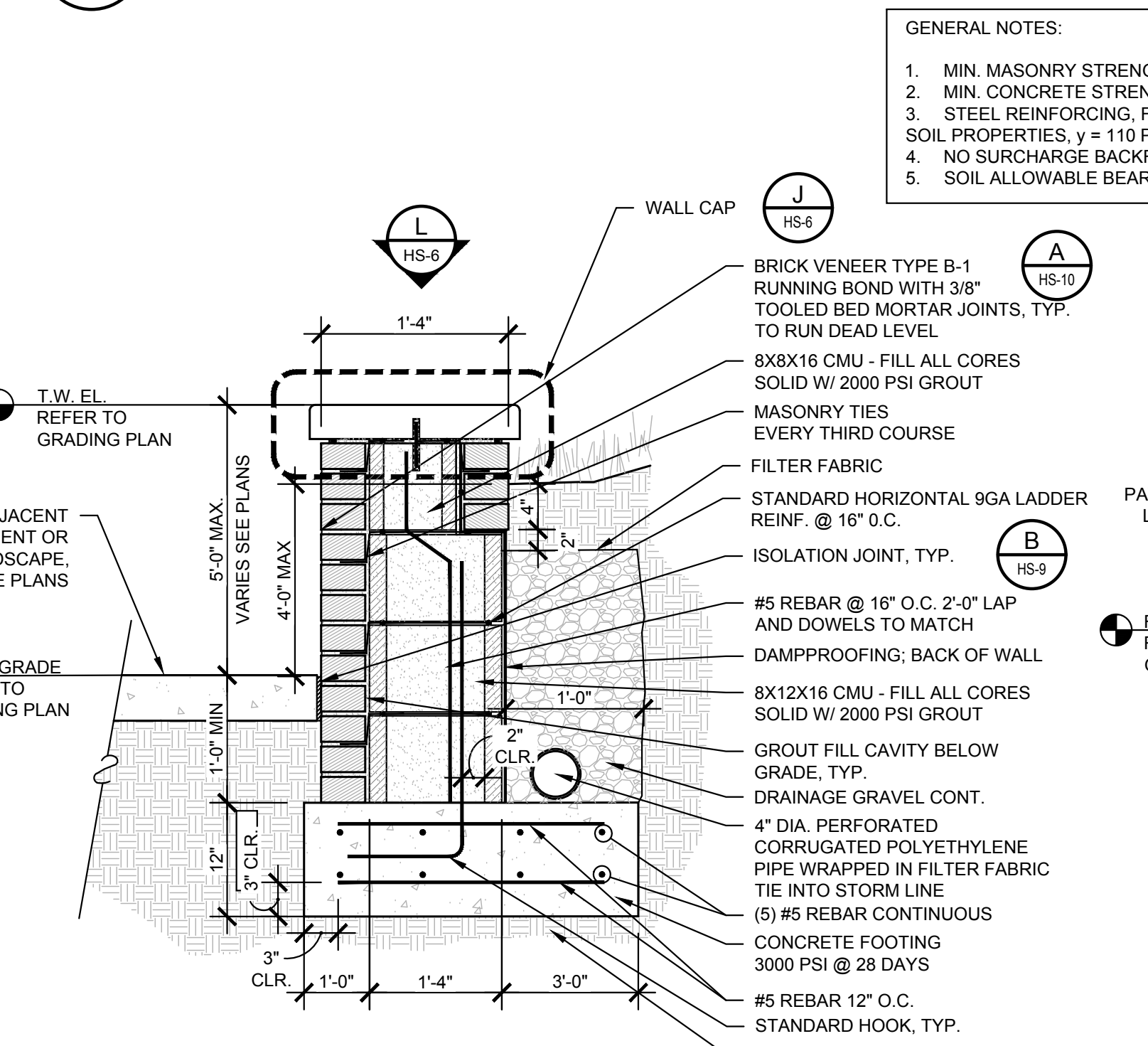
**B BRICK VENEER COLUMN 'A' - PLAN SECTION**  
 HS-6 SCALE: 3/4" = 1'-0"



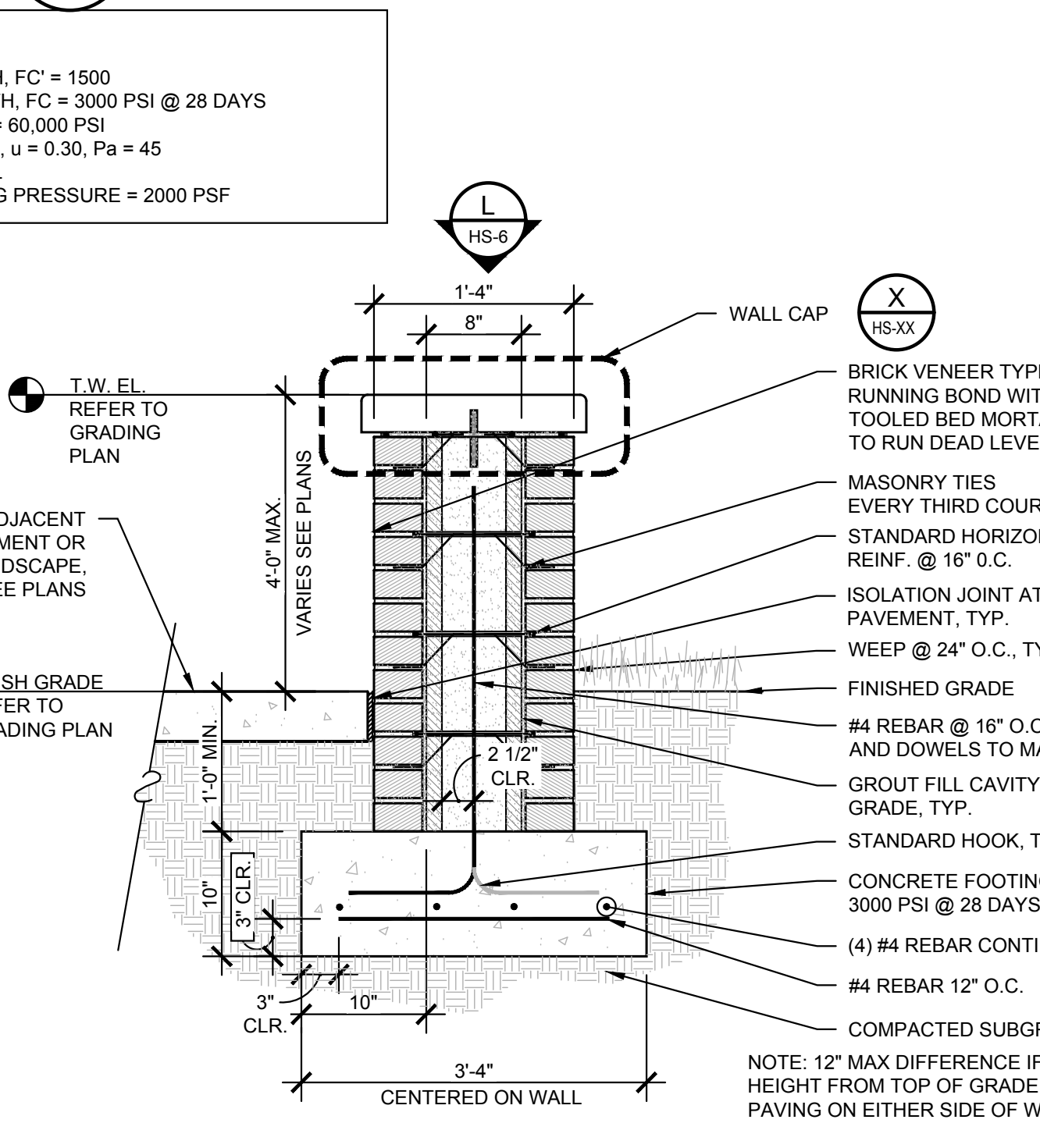
**C MONUMENT SCULPTURE BASE 'B' - SECTION**  
 HS-6 SCALE: 3/4" = 1'-0"



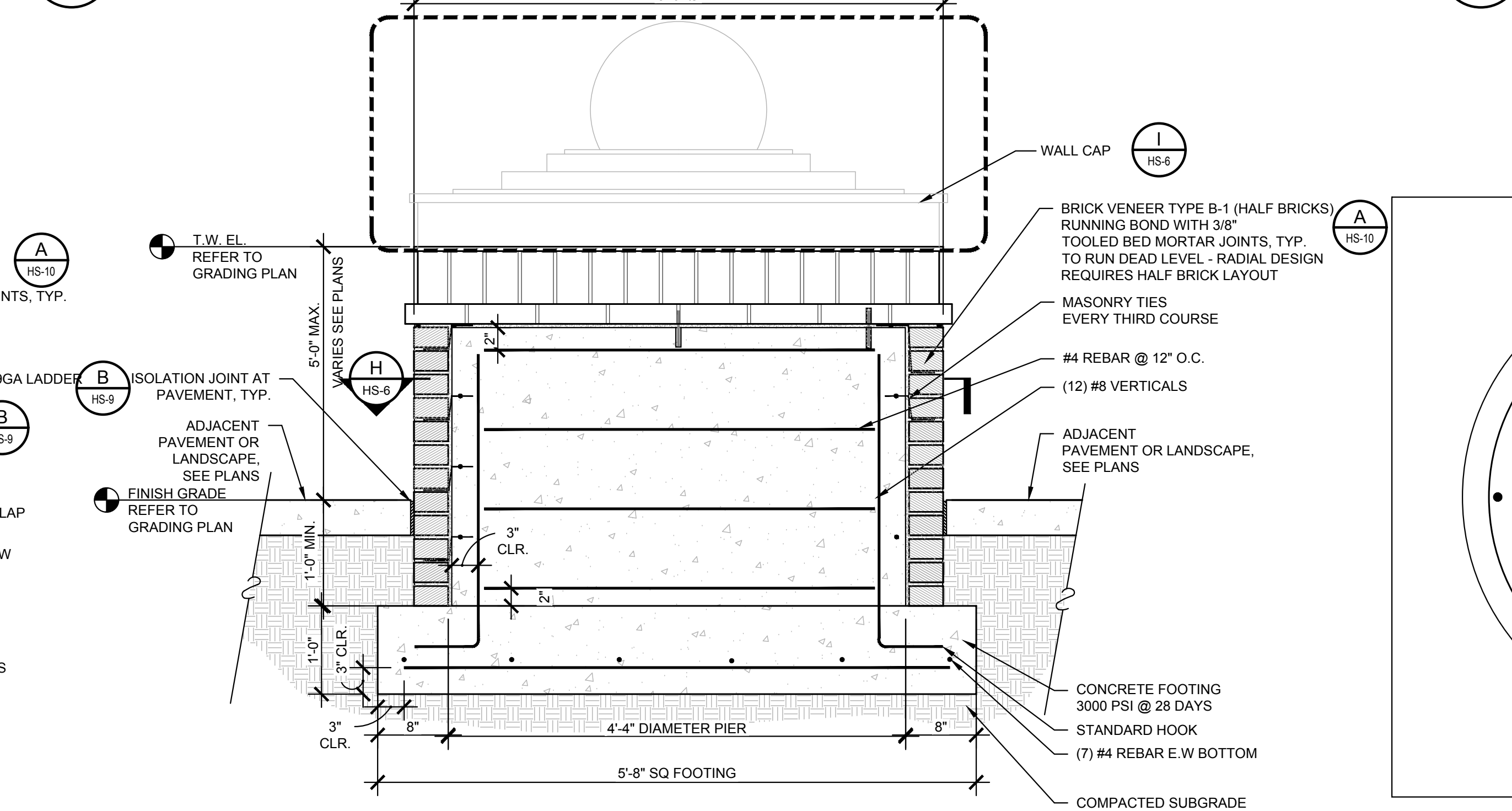
**D MONUMENT 'B' CAST STONE - PROFILE**  
 HS-6 SCALE: 3" = 1'-0"



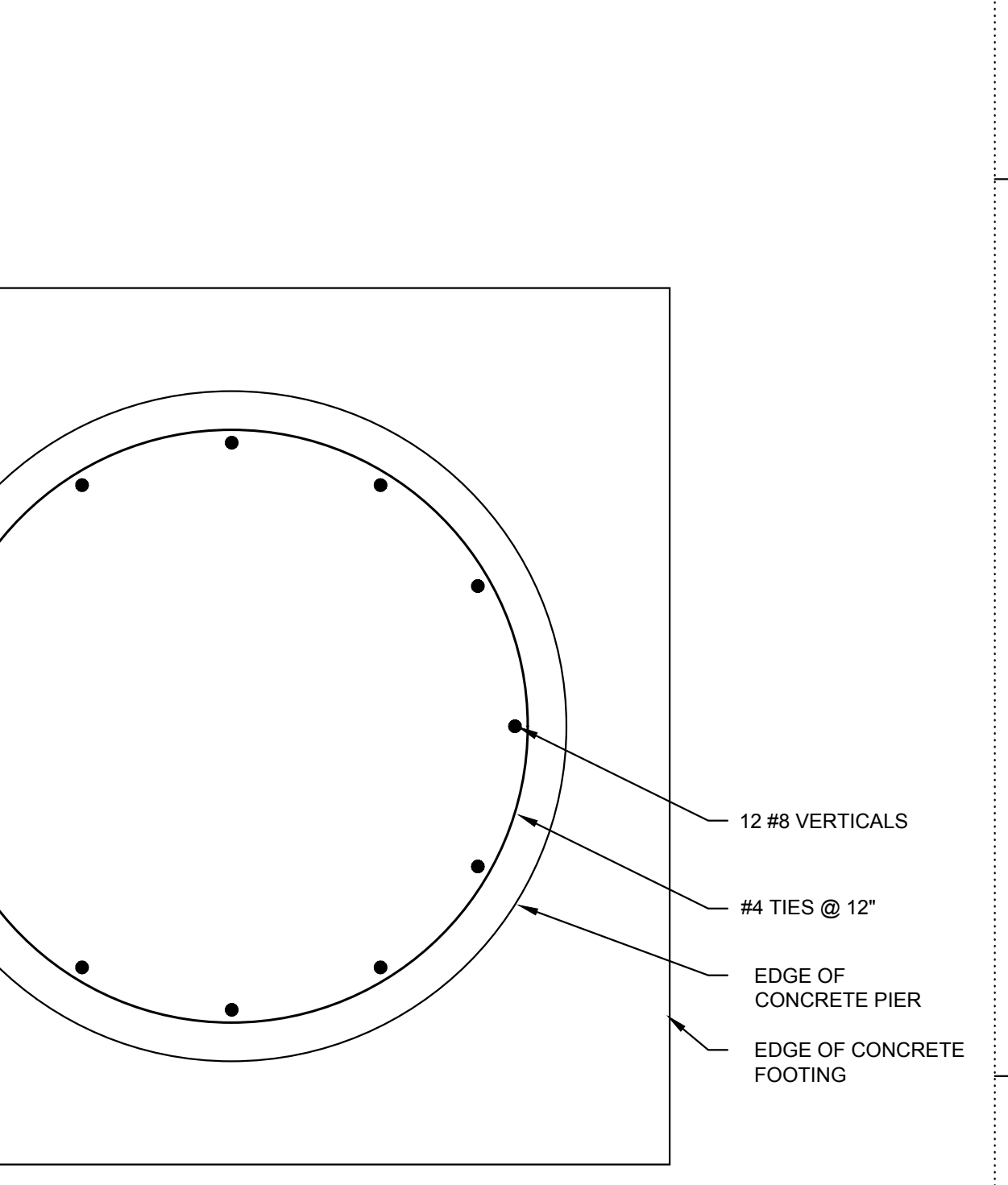
**E BRICK VENEER RETAINING WALL - SECTION**  
 HS-6 SCALE: 1" = 1'-0"



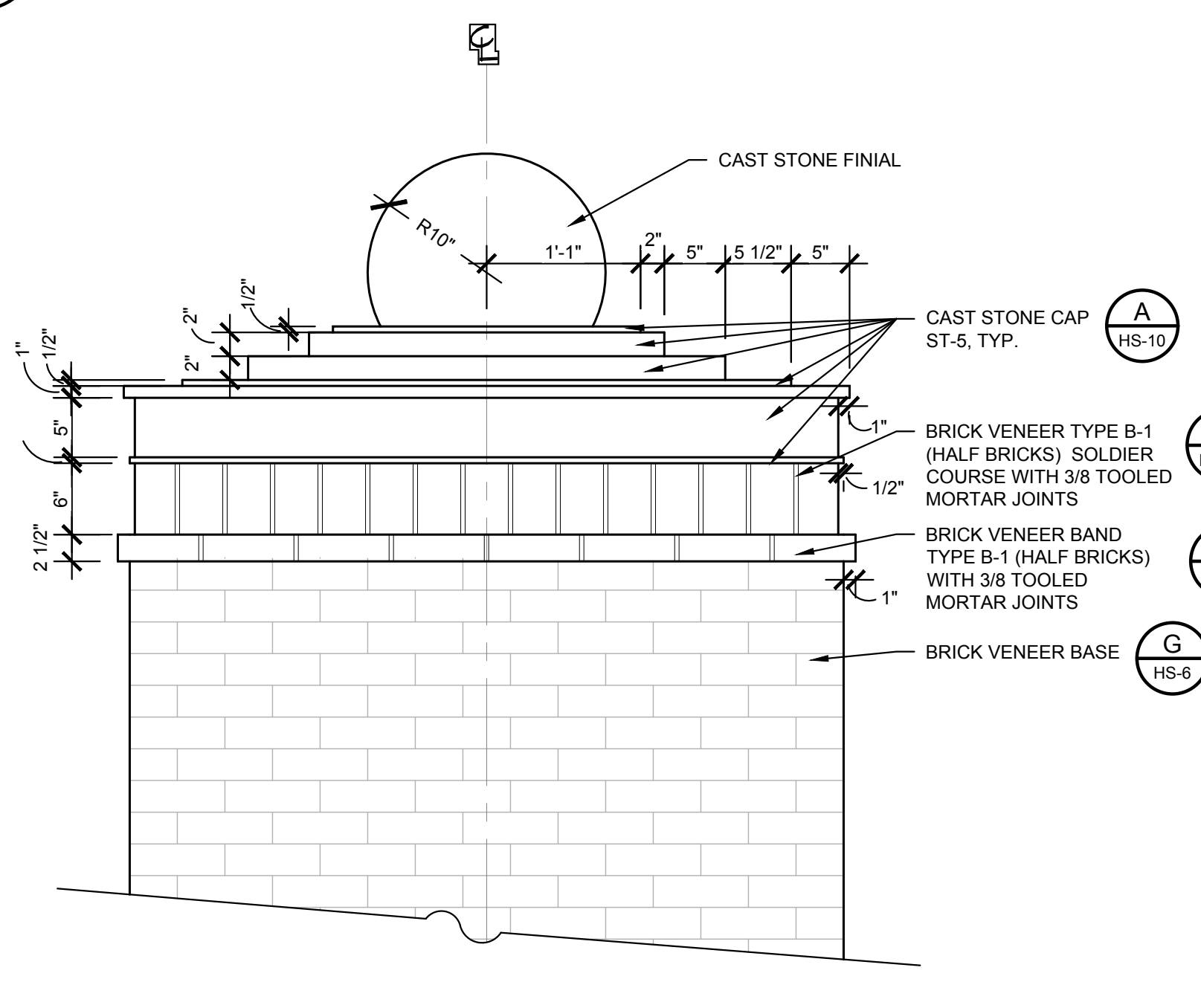
**F BRICK VENEER FREESTANDING WALL - SECTION**  
 HS-6 SCALE: 1" = 1'-0"



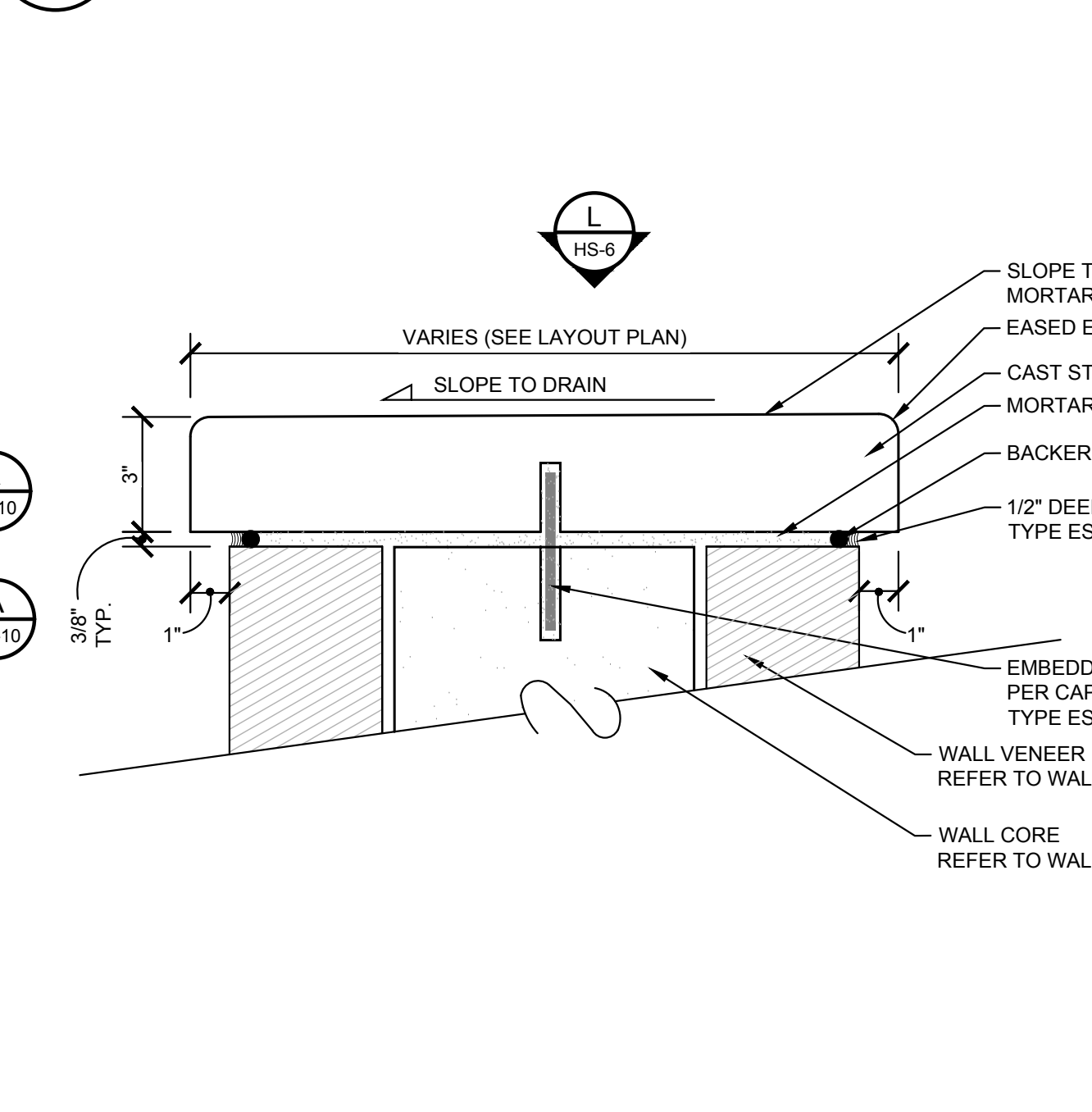
**G BRICK VENEER COLUMN 'B' - SECTION**  
 HS-6 SCALE: 1" = 1'-0"



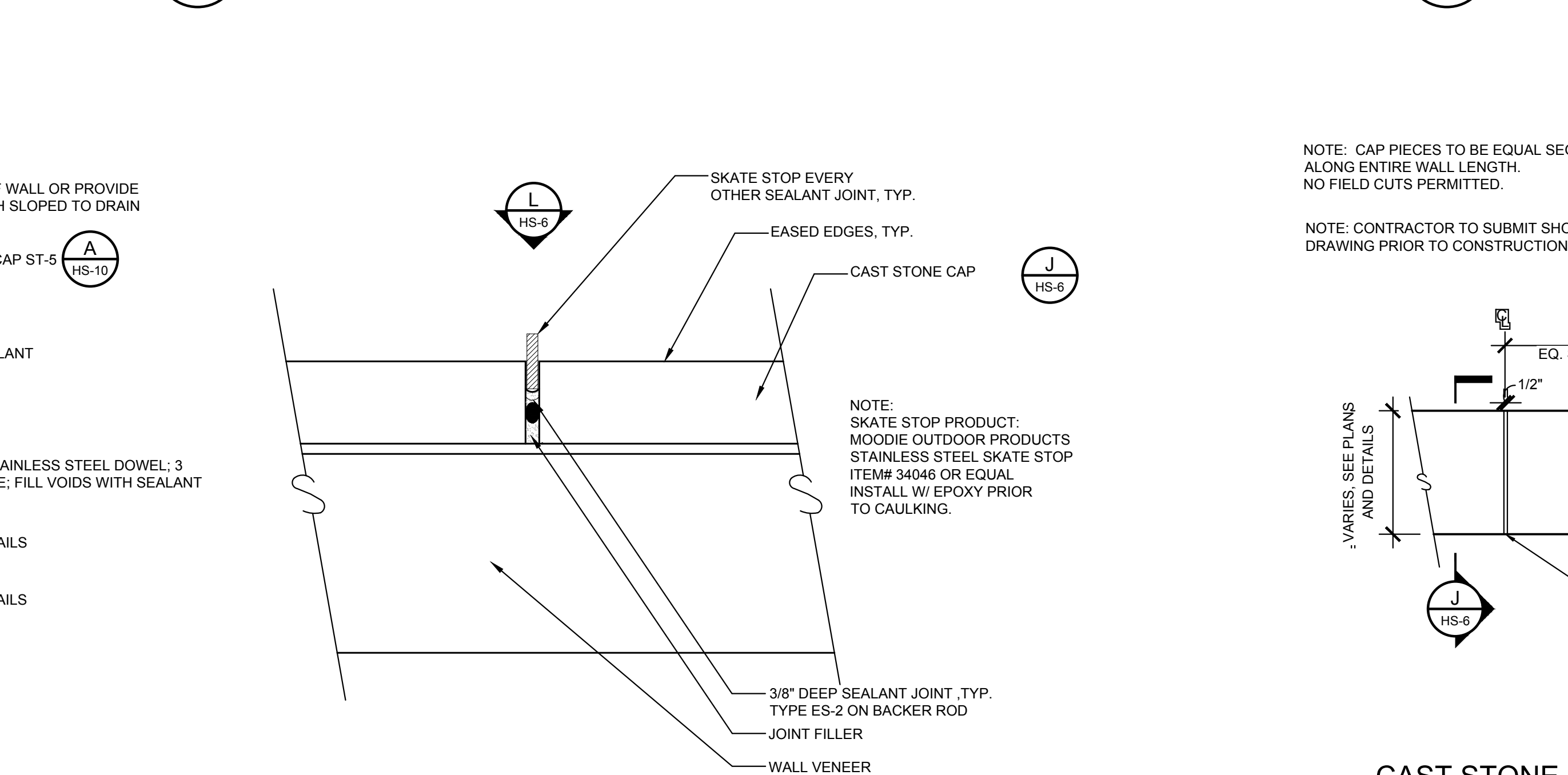
**H BRICK VENEER COLUMN 'B' PIER - SECTION**  
 HS-6 SCALE: 1" = 1'-0"



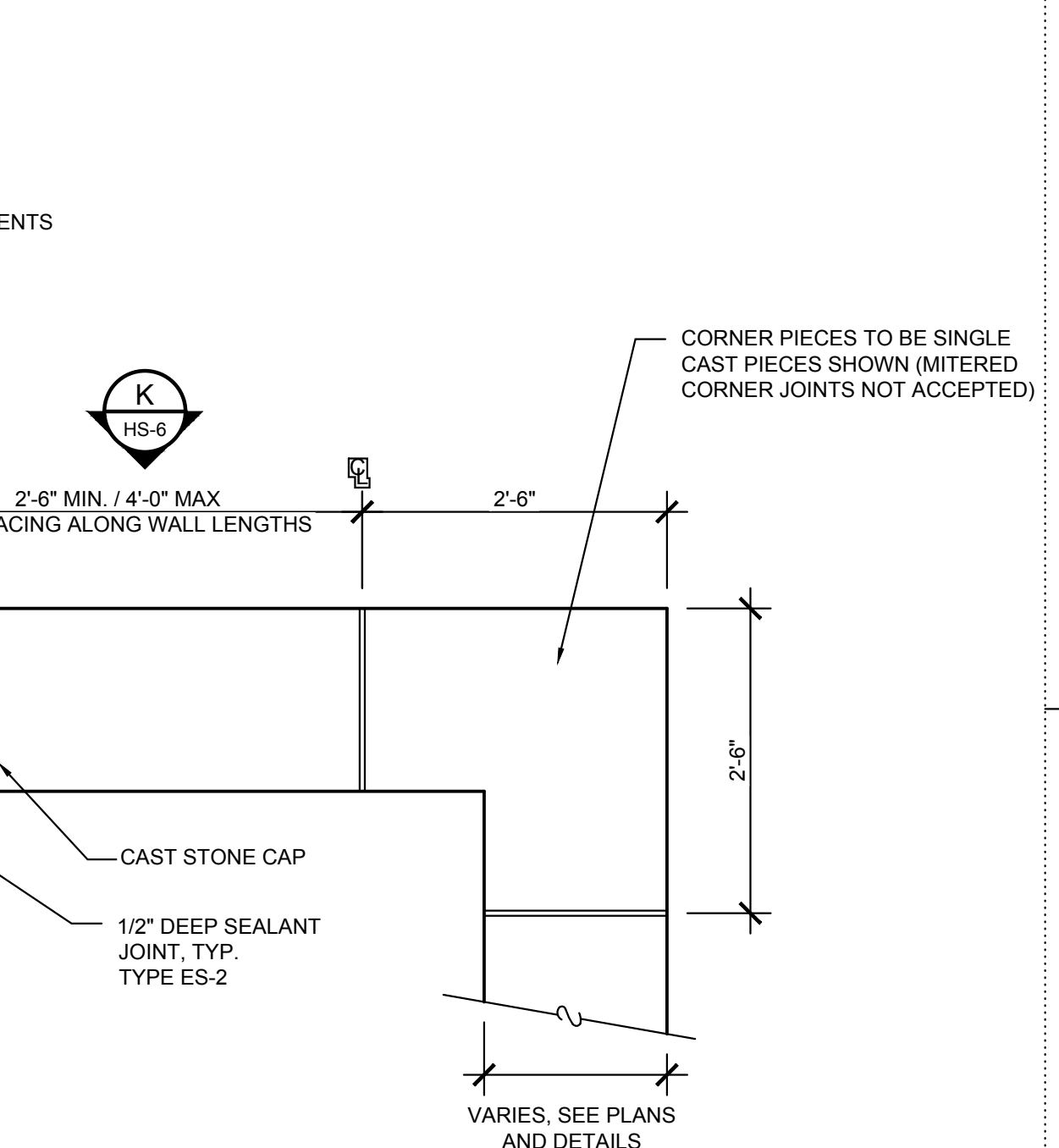
**I BRICK VENEER COLUMN 'B' - ENLARGEMENT**  
 HS-6



**J CAST STONE WALL CAP - SECTION**  
 HS-6 SCALE: 3" = 1'-0"

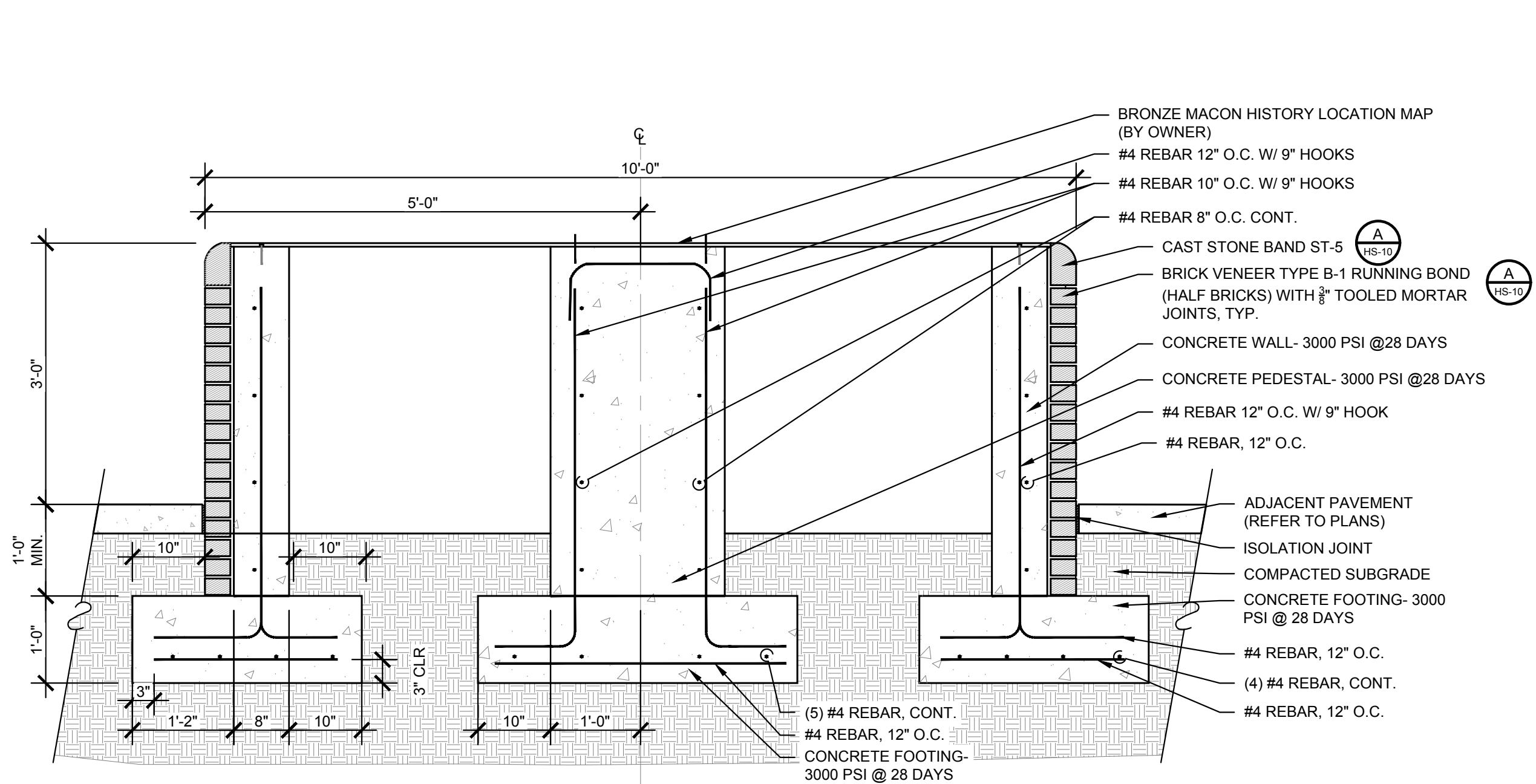
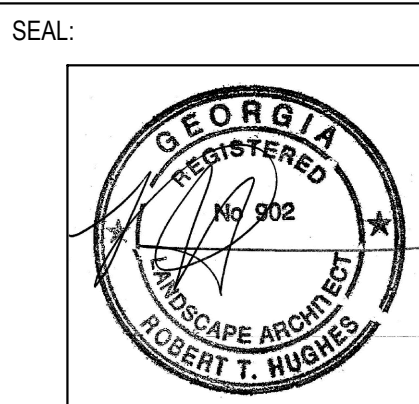


**K WALL CAP SKATE STOP - PARTIAL ELEVATION**  
 HS-6 SCALE: 3" = 1'-0"

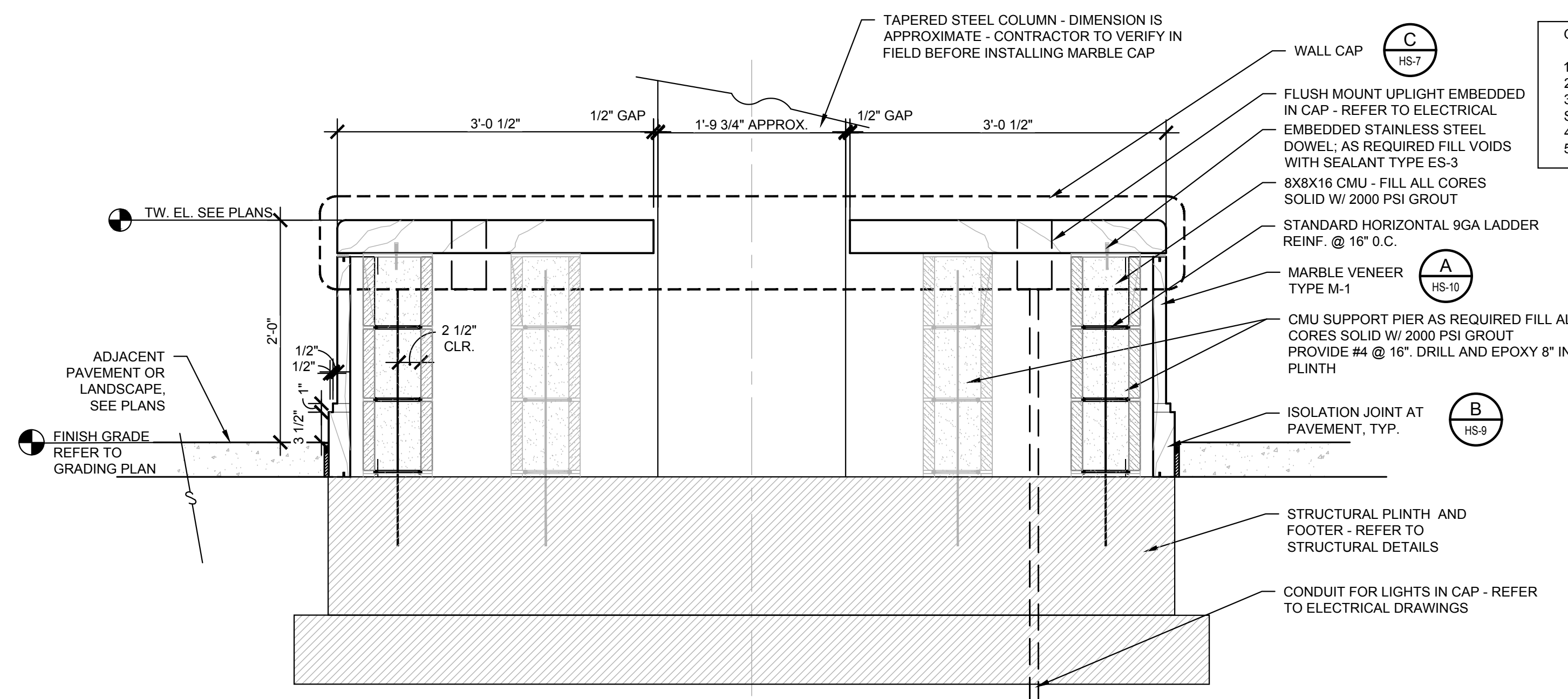


**L CAST STONE WALL CAP - PARTIAL PLAN**  
 HS-6 SCALE: 3/4" = 1'-0"

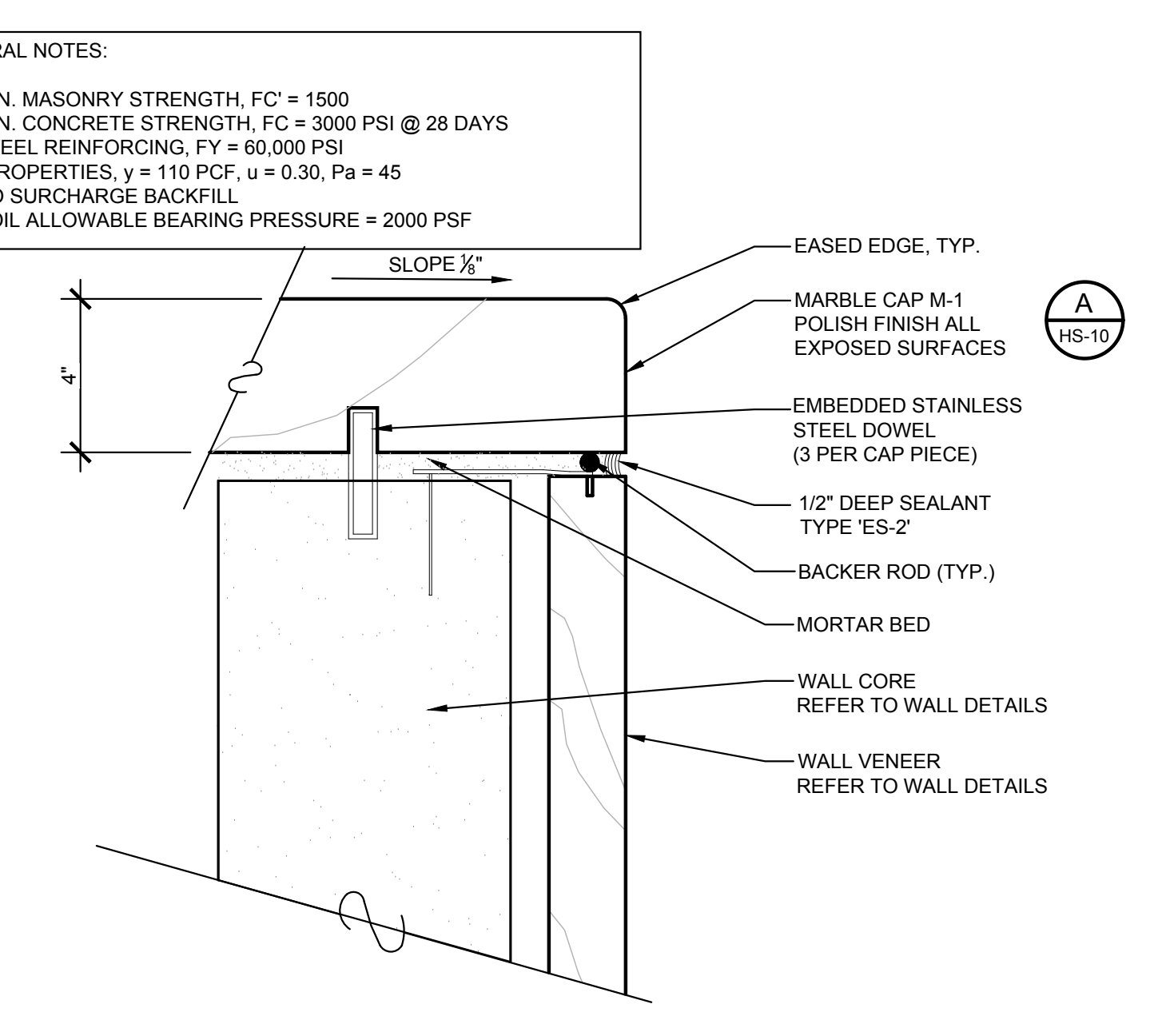
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 File located in: S:\2021\7026\_Graphics\_CAD\02\_Details\Hardscape\_Details\21026.dwg  
 Add: Alternate.dwg



**A BRICK VENEER MONUMENT 'A' - SECTION**  
 HS-7 SCALE: 3/4" = 1'-0"

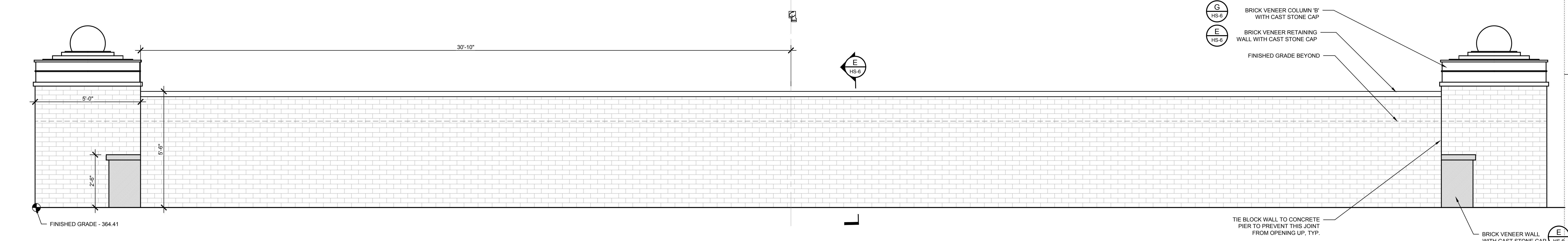


**B SHADE STRUCTURE PEDESTAL WALL - SECTION**  
 HS-7 SCALE: 1" = 1'-0"

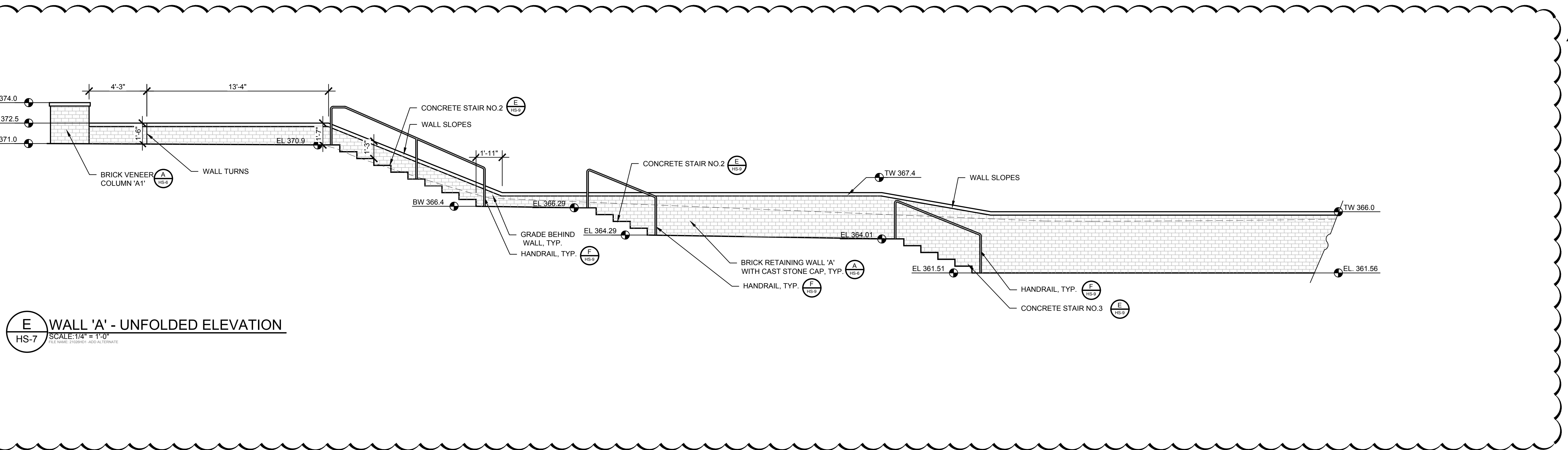


**C WALL CAP - SECTION**  
 HS-7 SCALE: 3/4" = 1'-0"

- GENERAL NOTES:
1. MIN. MASONRY STRENGTH, FC = 1500
  2. MIN. CONCRETE STRENGTH, FC = 3000 PSI @ 28 DAYS
  3. STEEL REINFORCING, FY = 60,000 PSI
  4. SOIL PROPERTIES, γ = 110 PCF, u = 0.30, Pa = 45
  5. NO SURCHARGE BACKFILL
  6. SOIL ALLOWABLE BEARING PRESSURE = 2000 PSF

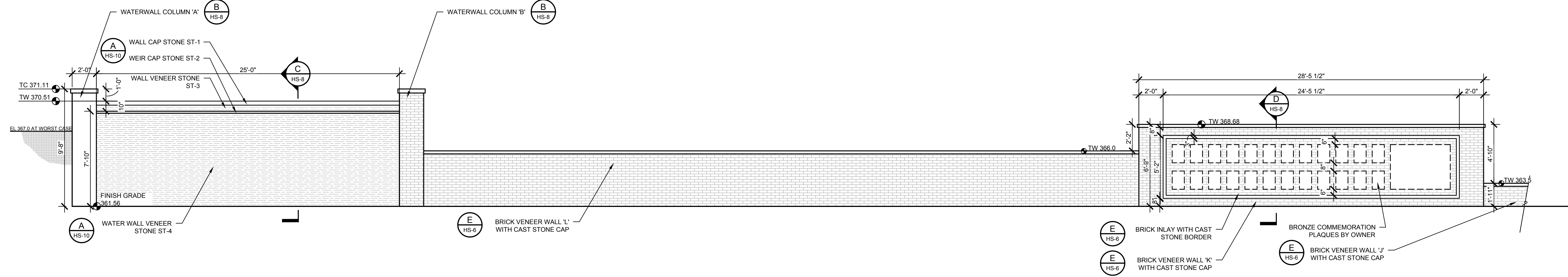
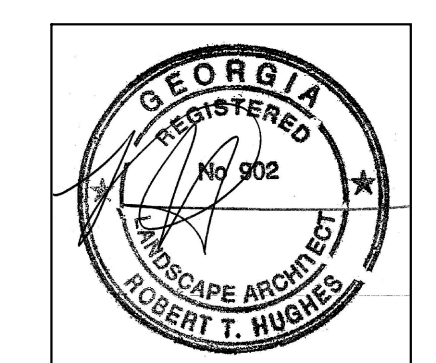


**D BRICK WALL 'C' - UNFOLDED ELEVATION**  
 HS-7 SCALE: 1/2" = 1'-0"

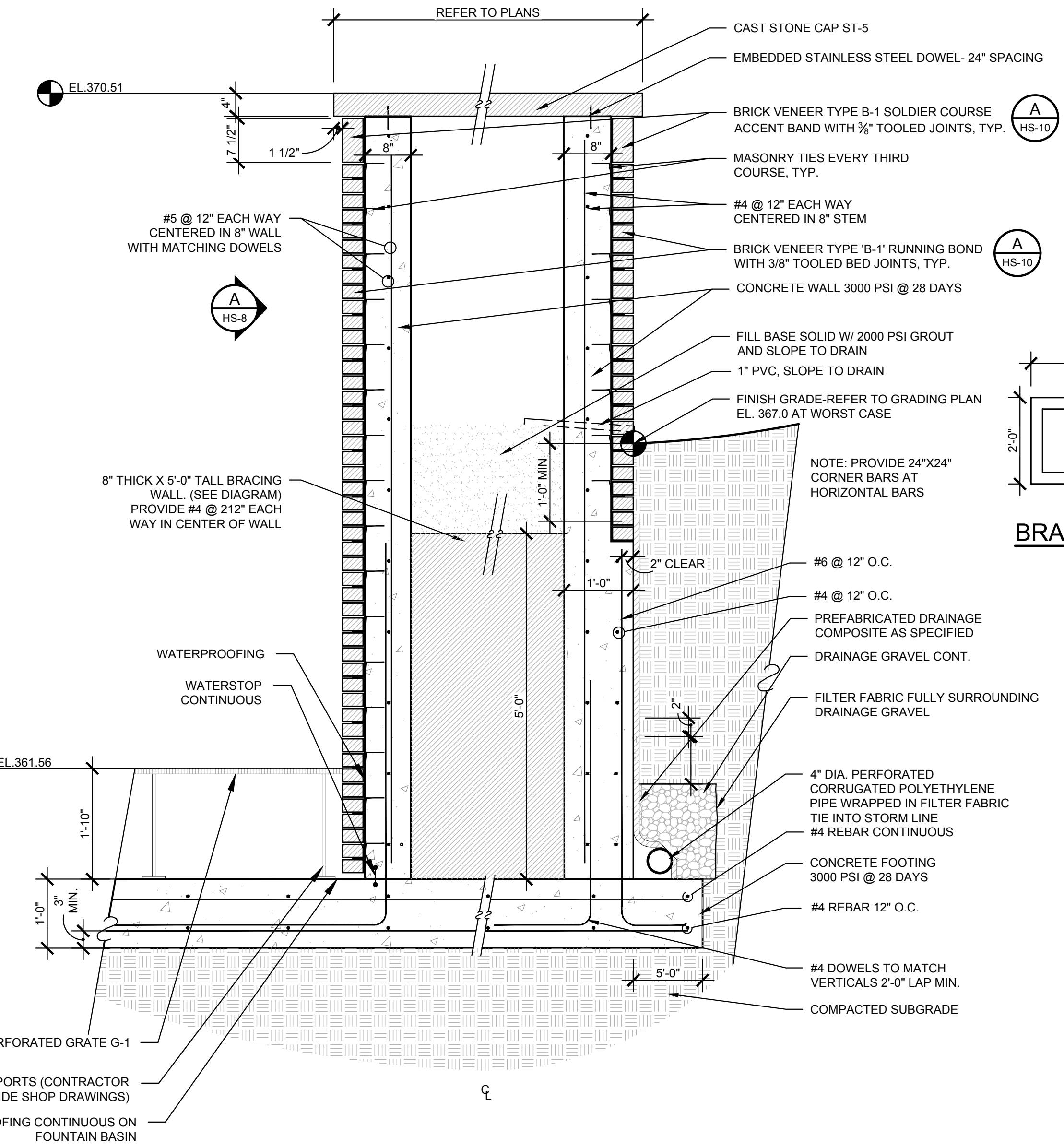


**E WALL 'A' - UNFOLDED ELEVATION**  
 HS-7 SCALE: 1/4" = 1'-0"

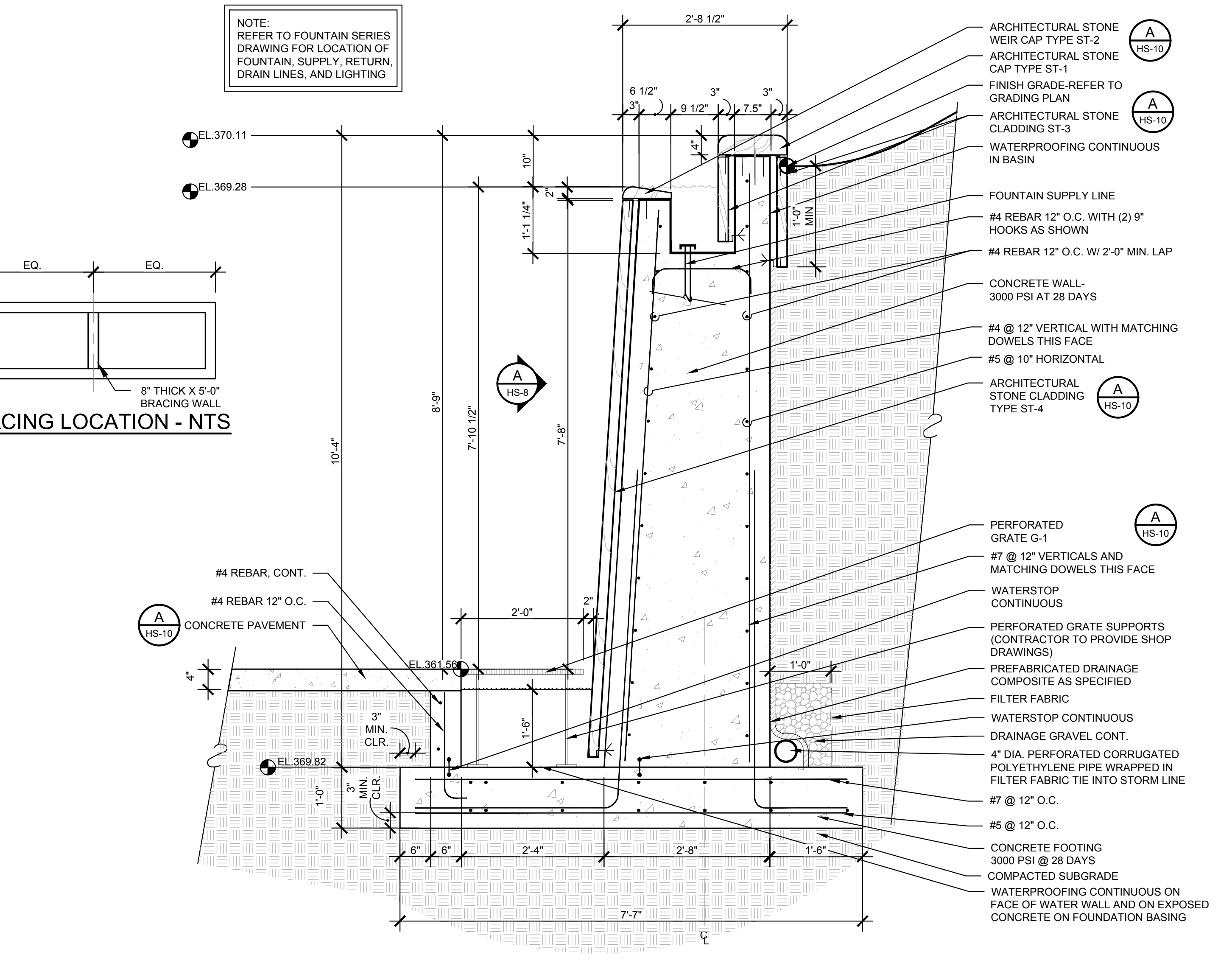




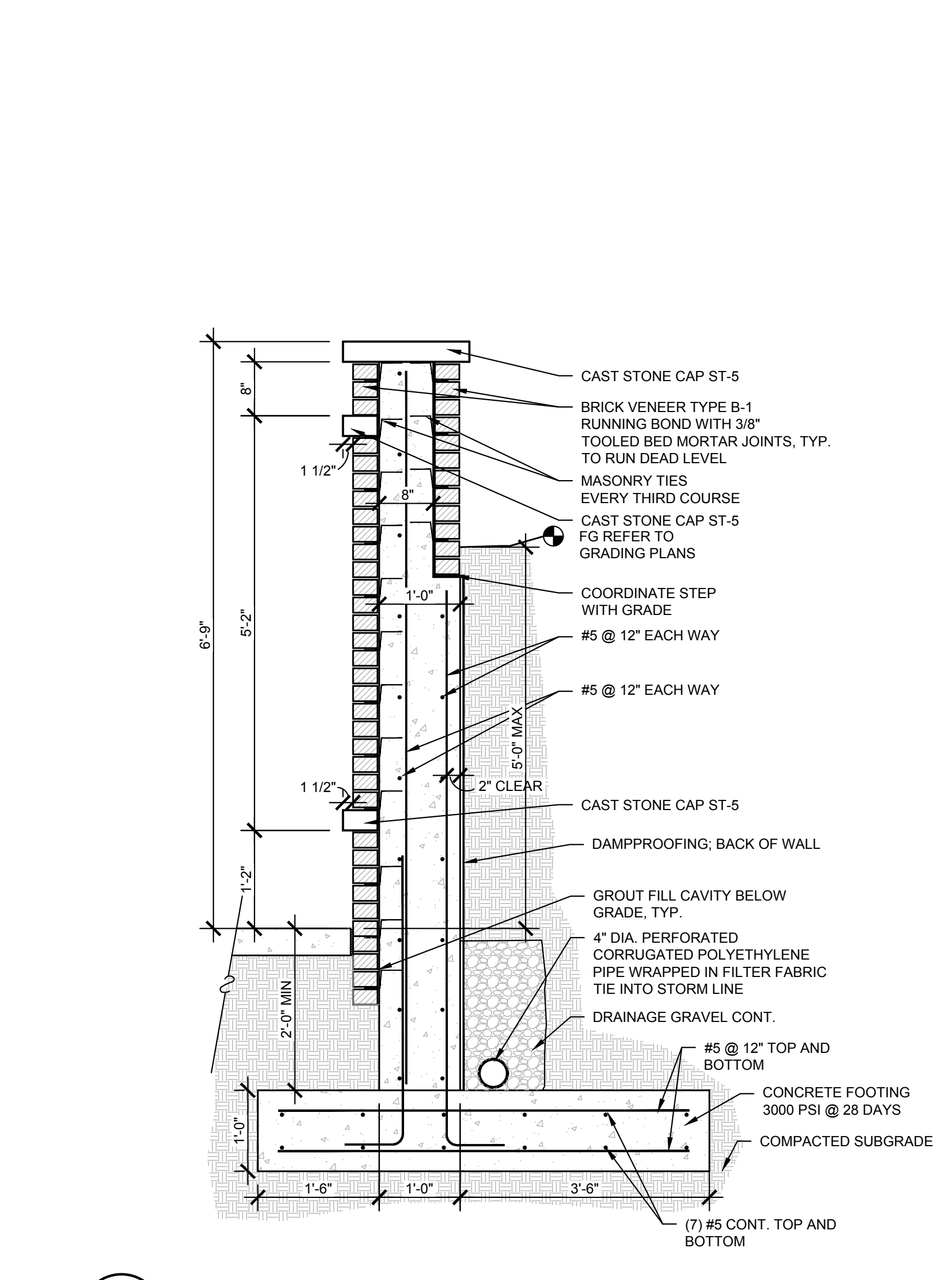
**A WATER WALL - UNFOLDED ELEVATION**  
 HS-8 SCALE: 1/4" = 1'-0"



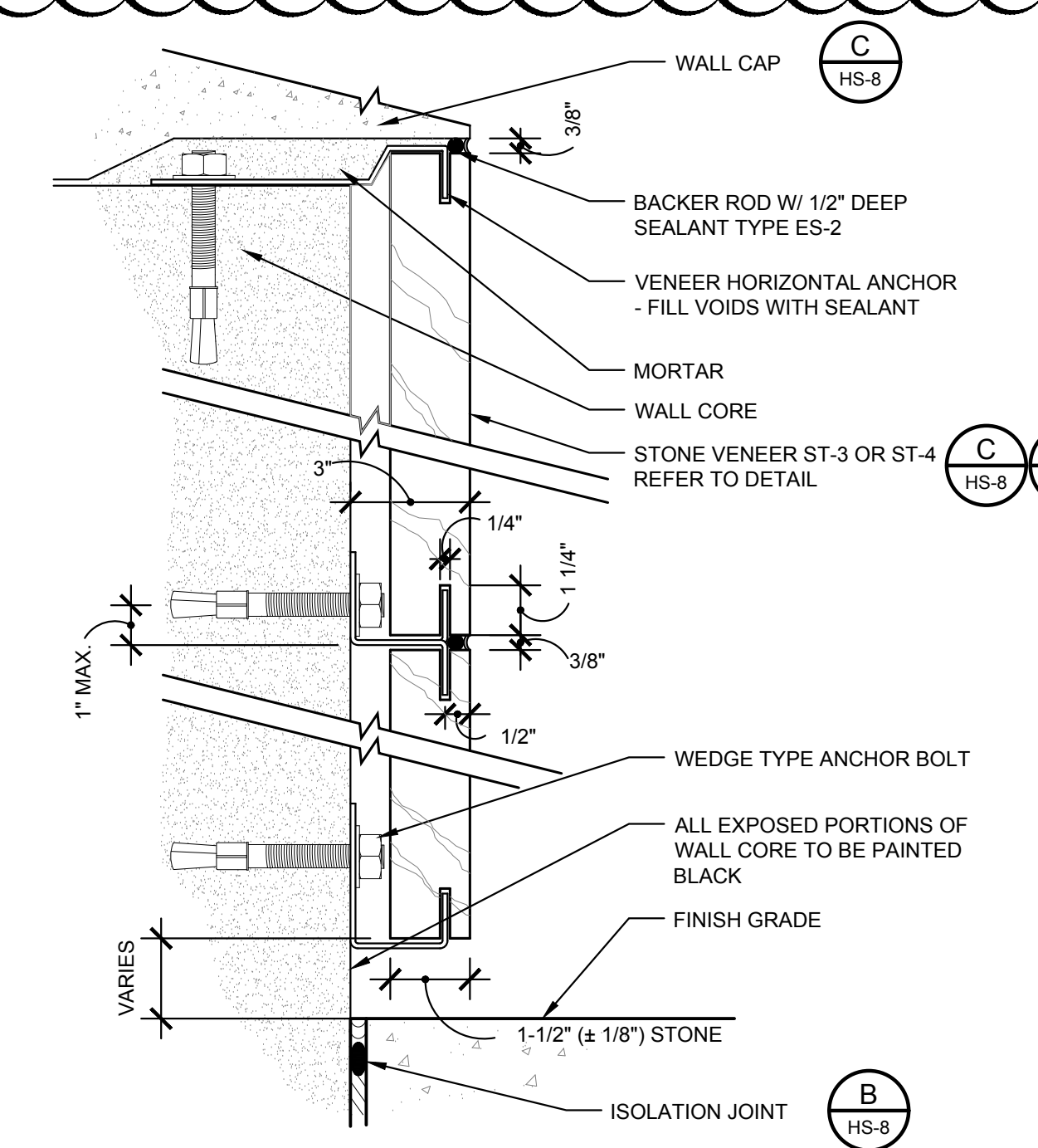
**B WATERWALL COLUMN 'A-B' - SECTION**  
 HS-8 SCALE: 3/4" = 1'-0"



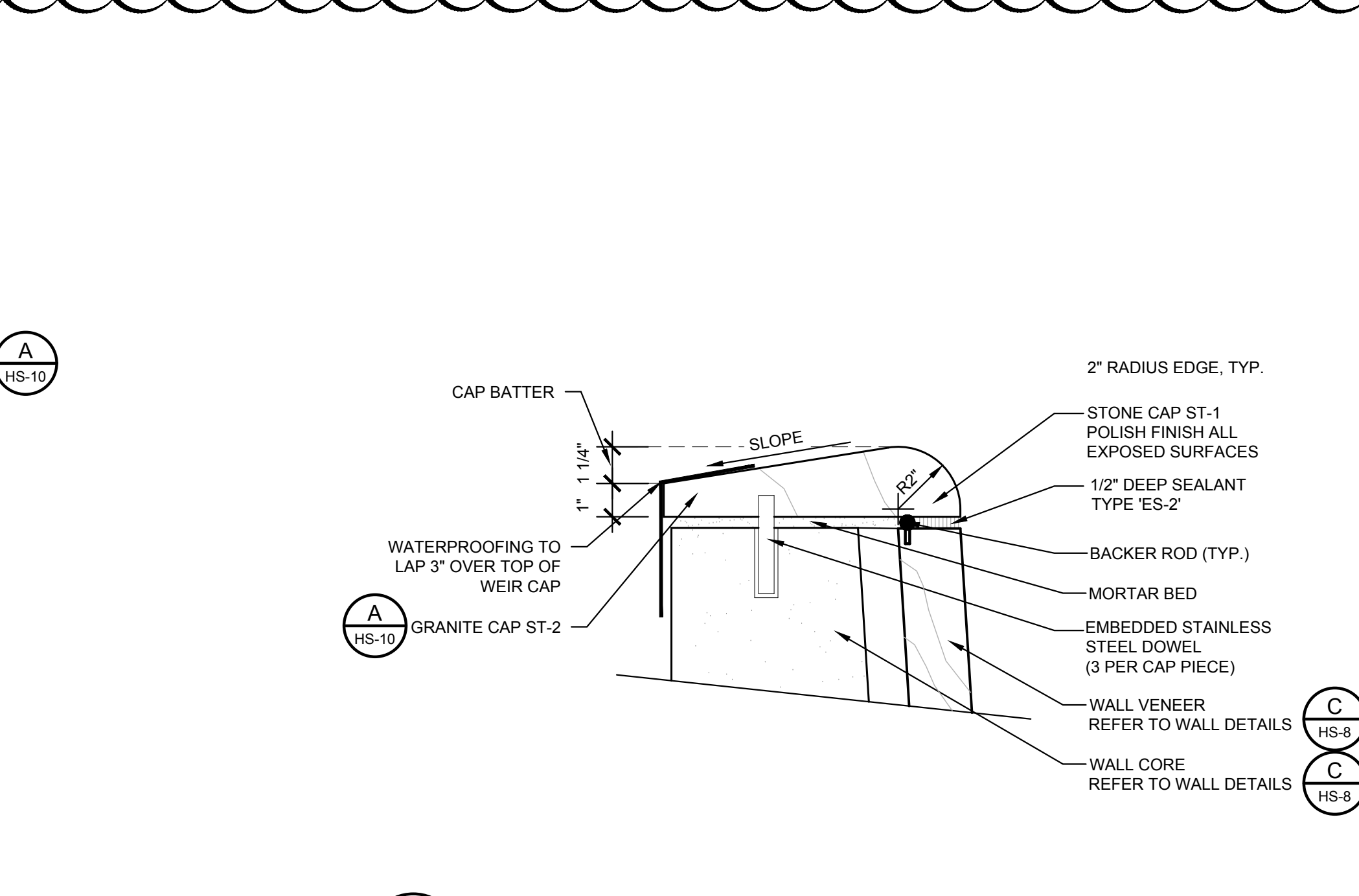
**C WATERWALL AND FOUNTAIN BASIN - SECTION ELEVATION**  
 HS-8 SCALE: 3/4" = 1'-0"



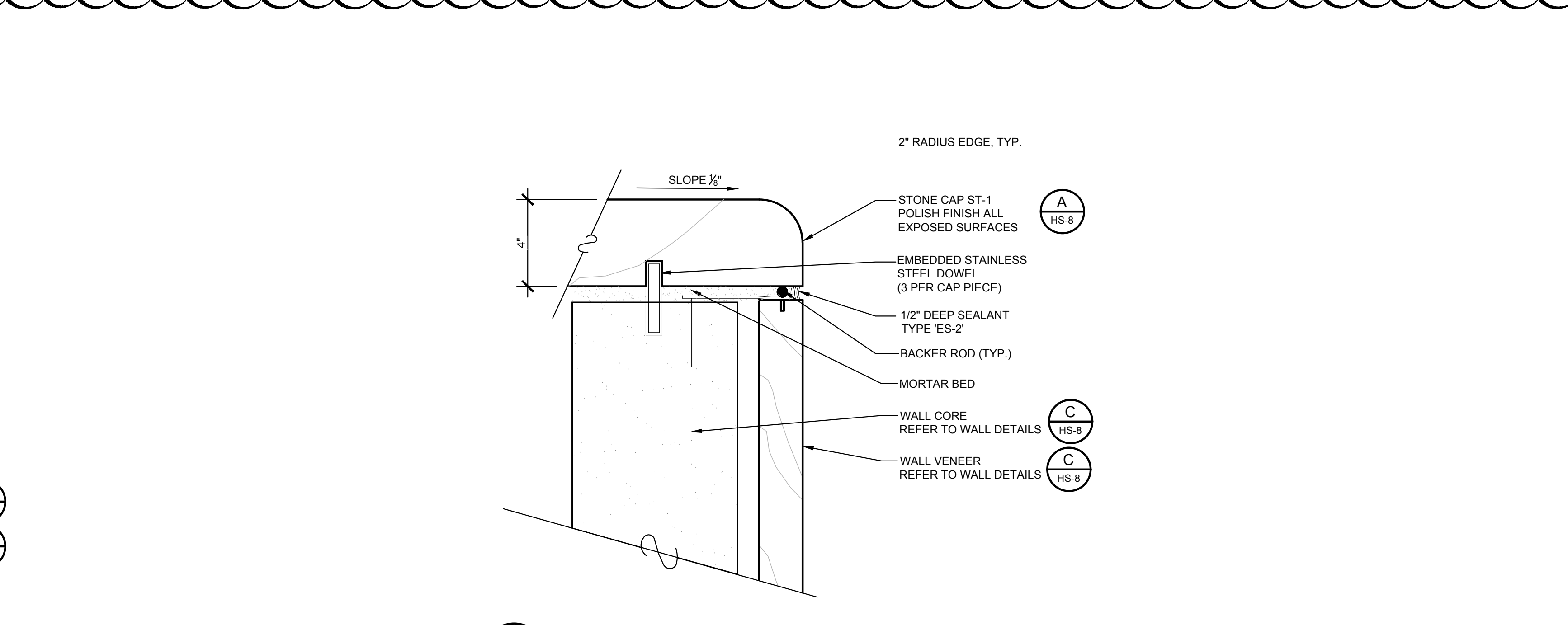
**D BRICK VENEER RETAINING WALL 'K' - SECTION**  
 HS-8 SCALE: 3/4" = 1'-0"



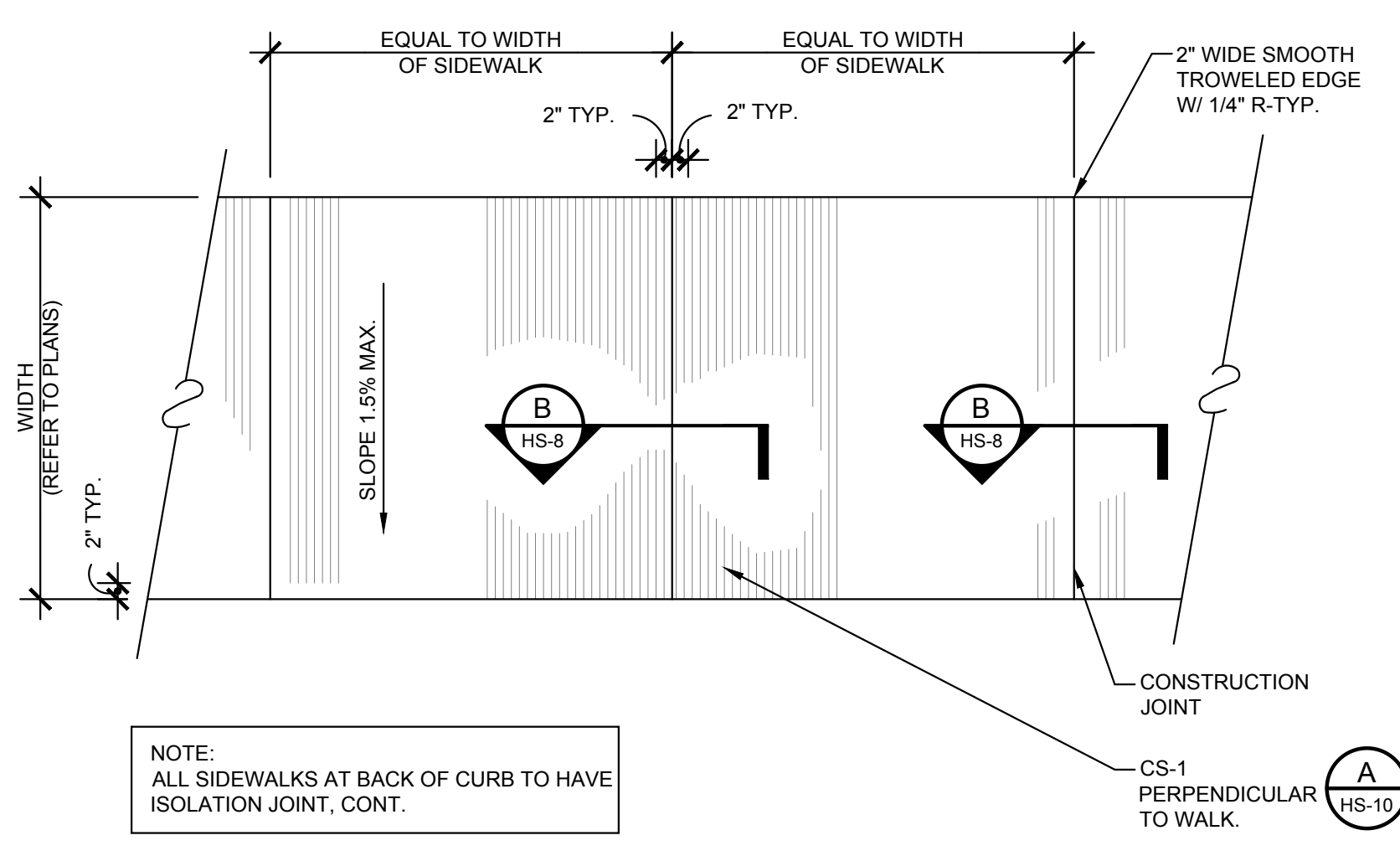
**E VENEER SECTION**  
 HS-8 SCALE: 3" = 1'-0"



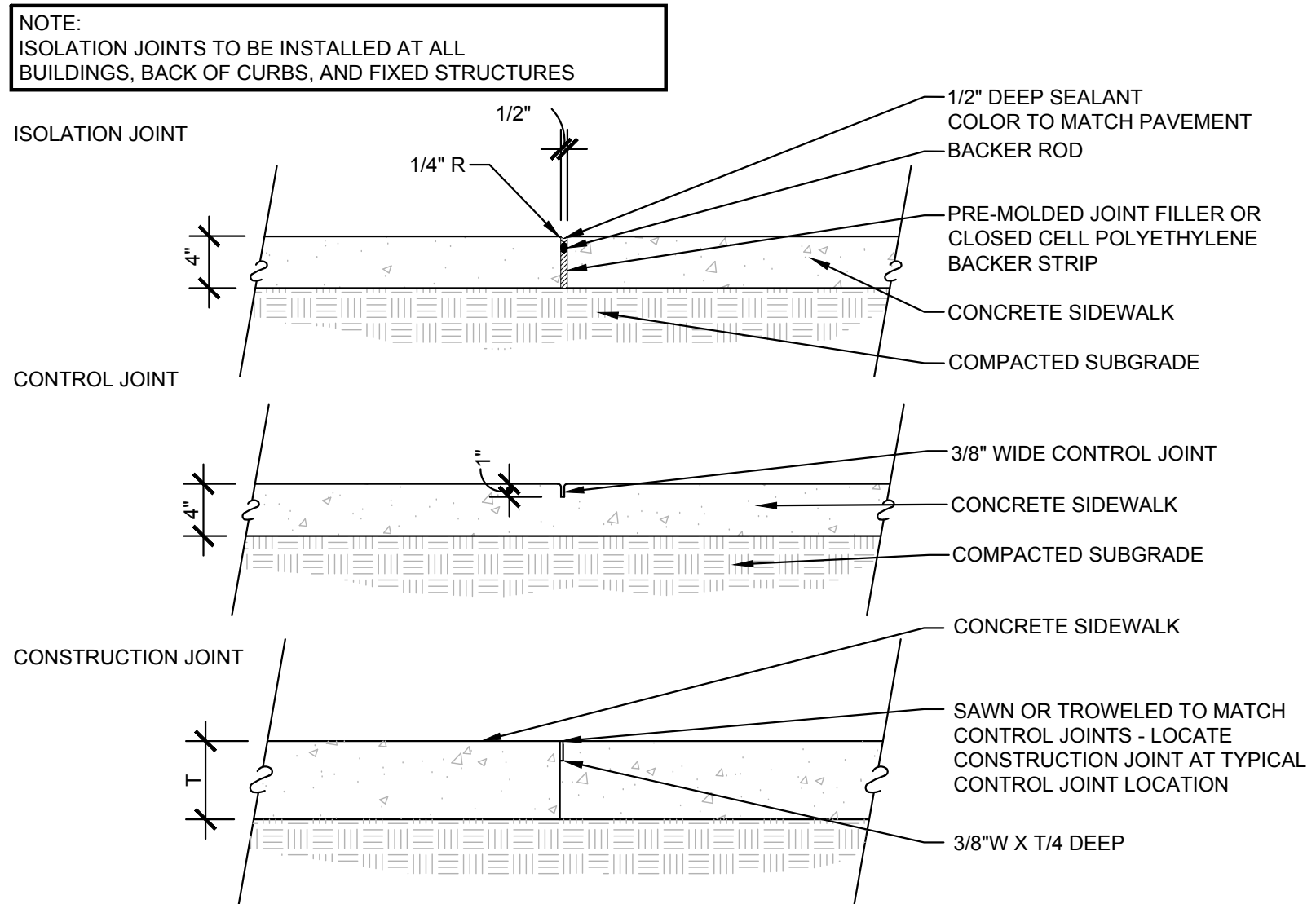
**F WEIR CAP - SECTION**  
 HS-8 SCALE: 3" = 1'-0"



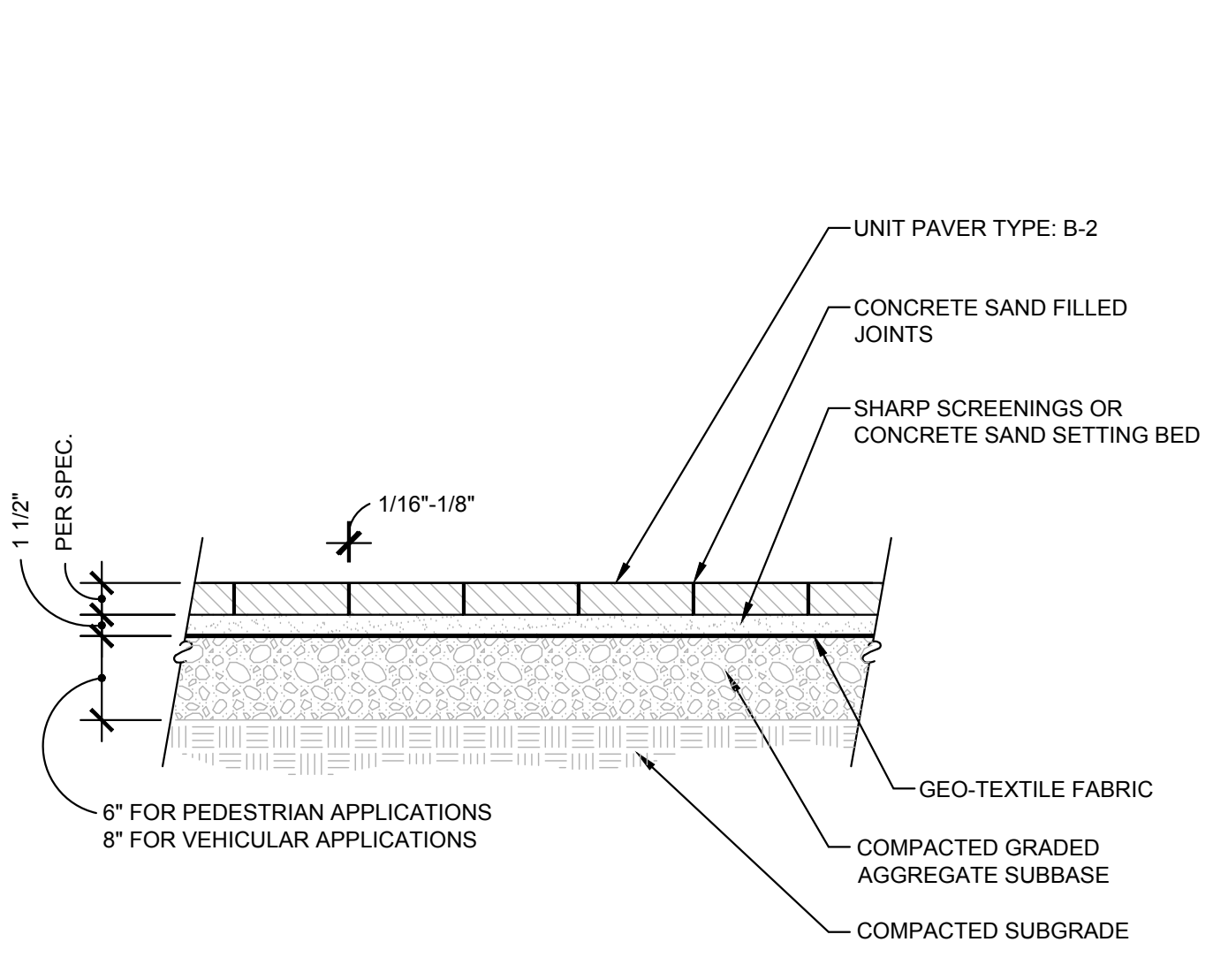
**G WALL CAP - SECTION**  
 HS-8 SCALE: 3" = 1'-0"



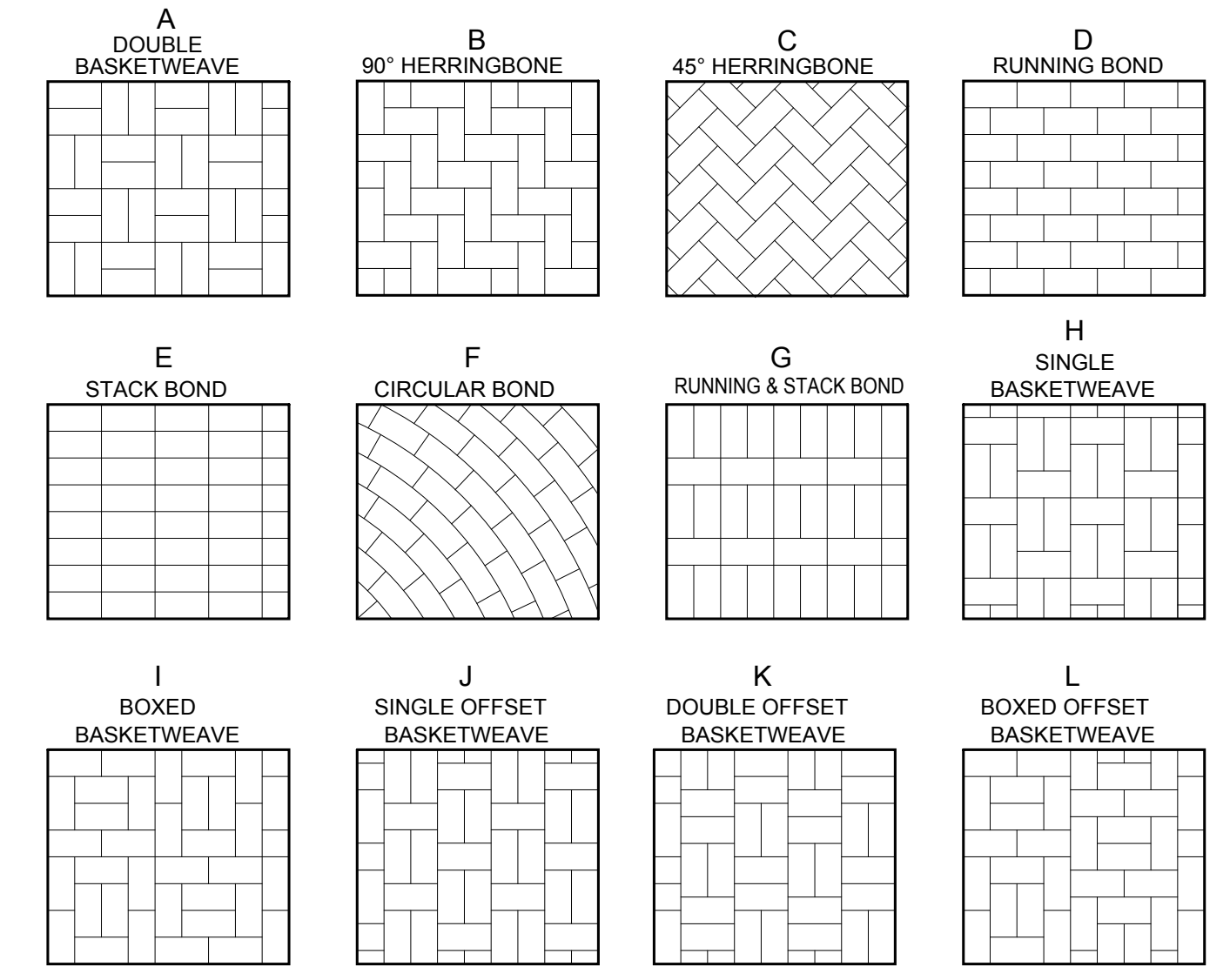
**A CONCRETE SIDEWALK - PLAN**  
 HS-9 SCALE: 1/2"=1'-0"



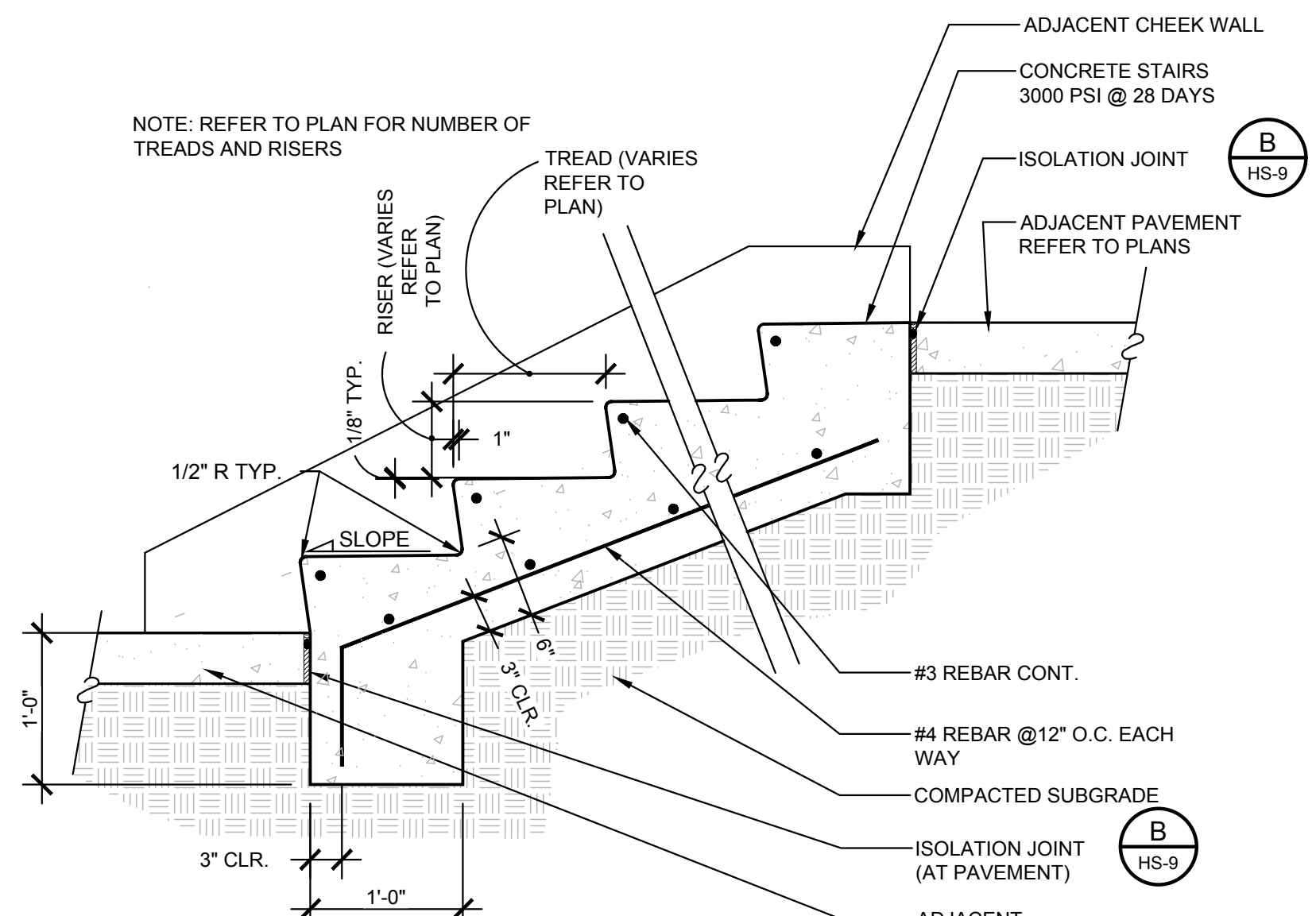
**B PEDESTRIAN CONCRETE PAVEMENT ISOLATION, CONTROL & CONST. JOINT - SECTION**  
 HS-9 SCALE: 1"=1'-0"



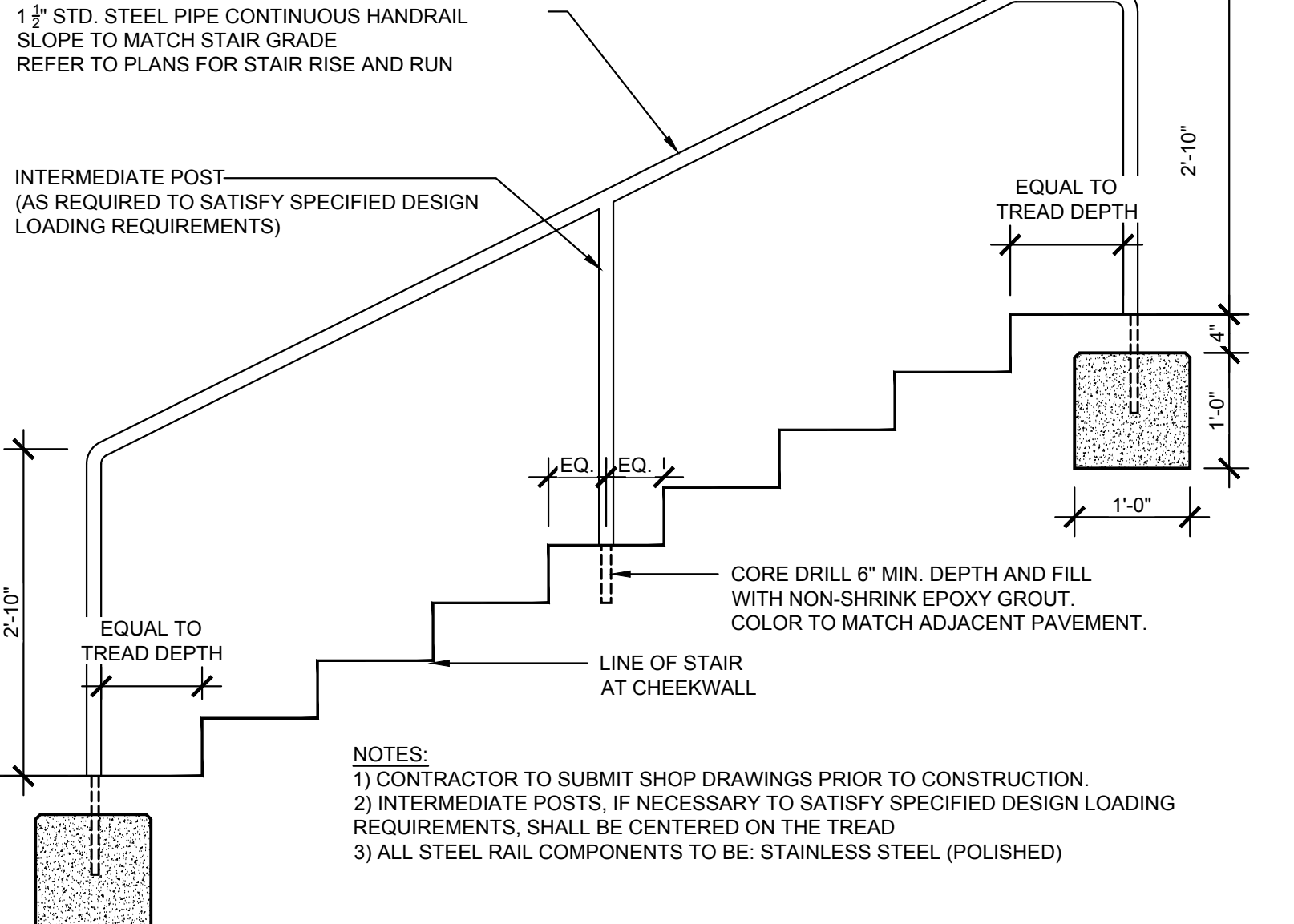
**C UNIT PAVER WITH AGGREGATE BASE - SECTION**  
 HS-9 SCALE: 1"=1'-0"



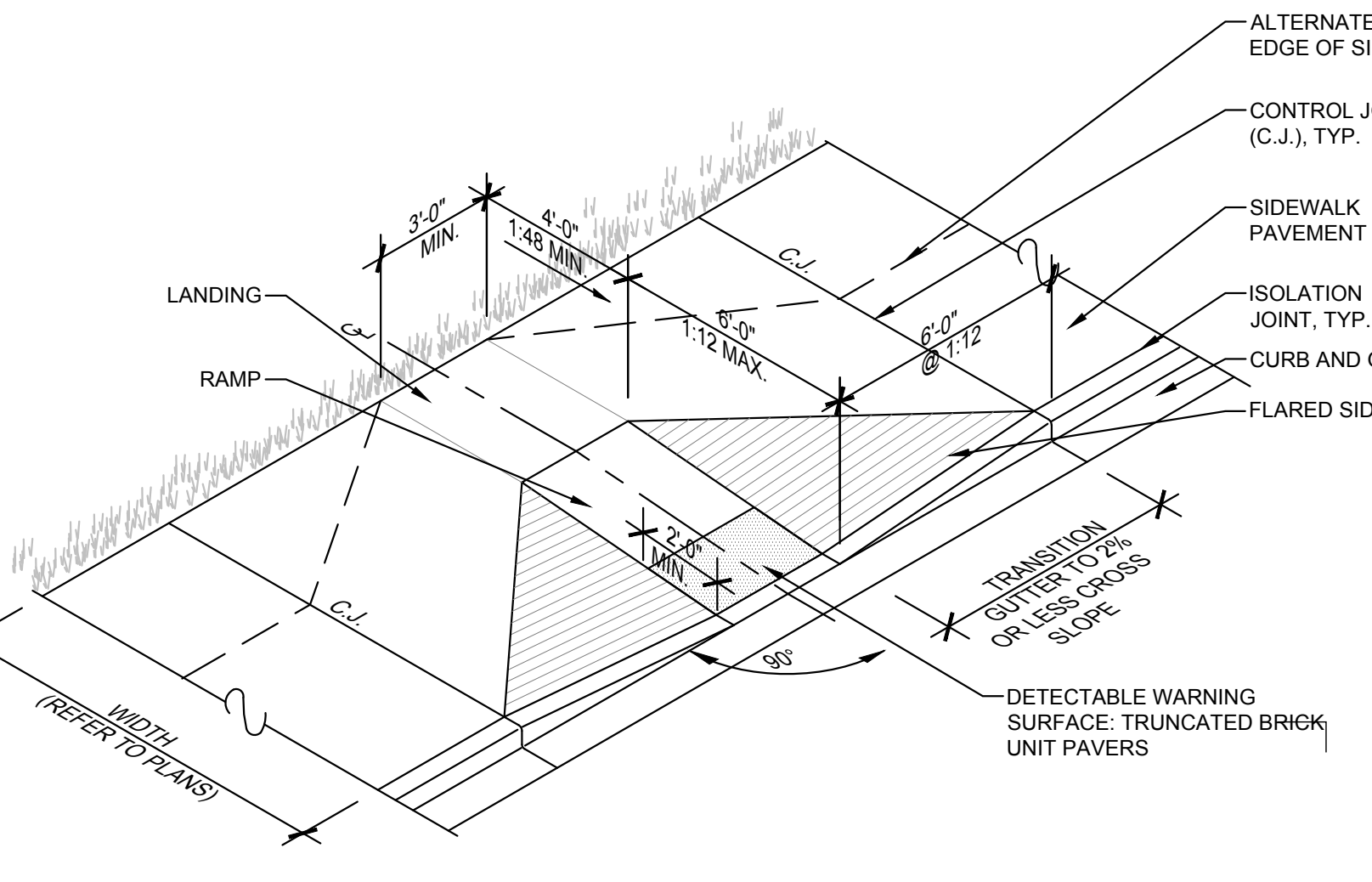
**D UNIT PAVER PAVING PATTERNS - DETAIL**  
 HS-9 SCALE: 1/2"=1'-0"



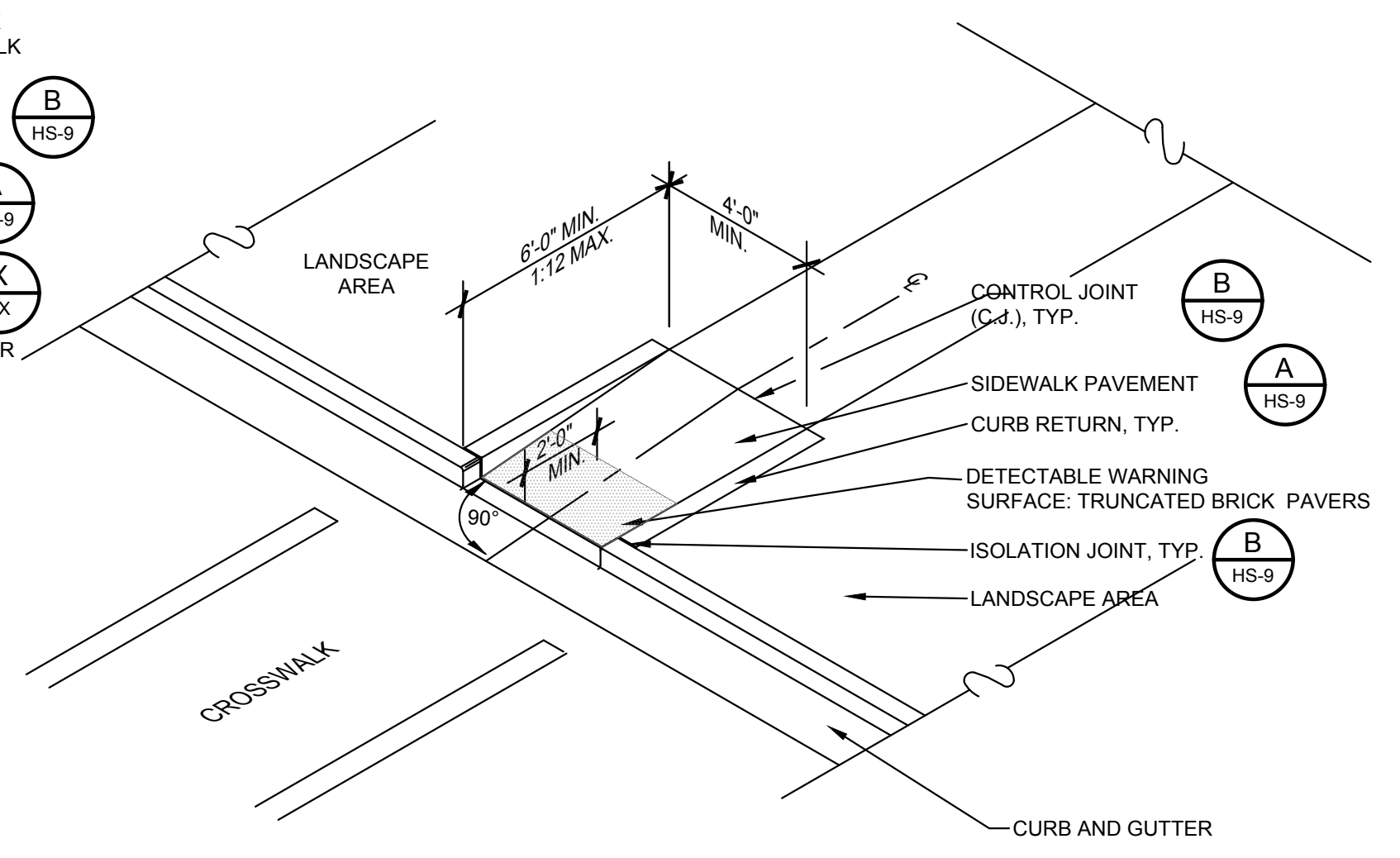
**E CONCRETE STAIR - SECTION**  
 HS-9 SCALE: 1"=1'-0"



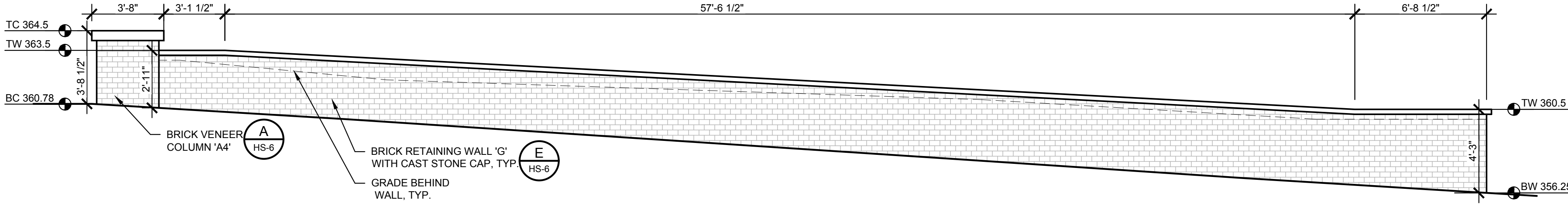
**F STAIR HANDRAIL - ELEVATION**  
 HS-9 SCALE: 3/4"=1'-0"



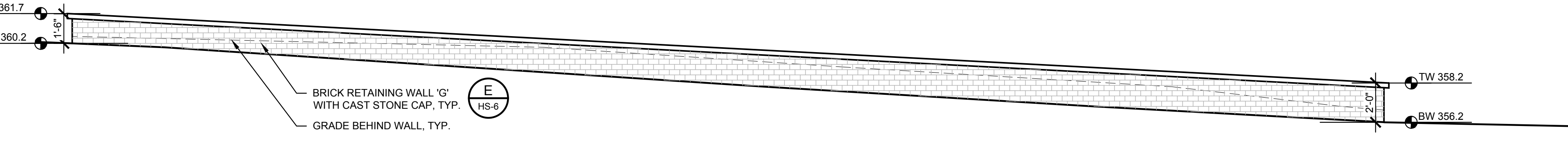
**G HANDICAP RAMP 'A'**  
 HS-9 SCALE: N.T.S.



**H HANDICAP RAMP 'B' - PERSPECTIVE**  
 HS-9 SCALE: N.T.S.



**I WALL 'G' ELEVATION**  
 HS-9 SCALE: 1/4"=1'-0"



**J WALL 'H' ELEVATION**  
 HS-9 SCALE: 1/4"=1'-0"



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CONSULTANT LOGO:

CONSULTANT INFORMATION:

PROJECT TITLE:

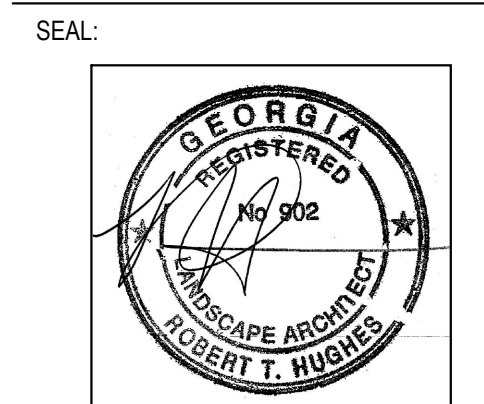
**ROSA PARKS SQUARE RENOVATION  
 PROJECT - ADD ALTERNATE SCOPE**  
 POPLAR STREET  
 MACON, GEORGIA  
 MACON-BIBB COUNTY  
 MACON, GEORGIA

PROJECT NO:  
**21026**

PRINCIPAL IN CHARGE: TF  
 PROJECT MANAGER: MW  
 DRAWN BY: MW

ISSUE AND DATE:  
 November 11th, 2021  
 CONSTRUCTION DOCUMENTS

NO.	DATE	DESCRIPTION
1	04-05-2024	Revision 1



SHEET TITLE:  
**HARDSCAPE  
 DETAILS**

SHEET NO:  
**HS-9**

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Last modified on 04/08/24 by MNIGHT  
 File located in S:\2021\2026\_Graphics\_CAD\_02\_Details\Handscapes\Details\21026.dwg

DESIGNATION	MATERIAL	PATTERN	SIZE	COLOR/VARIETY	FINISH	MANUFACTURER
CS-1	CONCRETE	NA	NA	STANDARD GRAY PEDESTRIAN RATE	MEDIUM BROOM FINISH	
ST-1	GRANITE CAP	NA	4 1/16" THICK 104 SQFT	MESABI BLACK	POLISHED	COLDSPRING CONTACT: KIM MACIEJ 320-685-501 kmaciej@coldspring.us.com
ST-2	GRANITE WEIR CAP	NA	1 15/16" THICK 73 SQFT	MESABI BLACK	POLISHED	
ST-3	GRANITE UPPER FACING	NA	1 15/16" THICK 318 SQFT	MESABI BLACK	POLISHED	
ST-4	GRANITE WATER WALL FACING	NA	22 EQUAL PIECES ACROSS 88'-10" 1 15/16" THICK 818 SQFT	MESABI BLACK	POLISHED HORIZONTAL GROOVED	
ST-5	CAST STONE CAP	REFER TO PLANS	REFER TO PLANS	TBD - SUBMIT SAMPLES TO LANDSCAPE ARCHITECT		
B-1	ARCHITECTURAL BRICK VENEER	REFER TO PLANS	4X8 NOM.	CHEROKEE BRICK ARCHITECTURAL COLLECTION VELOUR FLASH W/ BUFF MORTAR	STANDARD	
B-2	BRICK PAVERS	REFER TO PLANS	4X8X2.25	PINE HALL BRICK PATHWAY FULL RANGE	STANDARD	
M-1	MARBLE	NA	SINGLE PIECE PER SIDE OF BASE CAP TO BE TWO PIECES	GEORGIA MARBLE - WHITE CHEROKEE	POLISHED	POLYCOR
G-1	METAL BAR GRATE	NA	36"X144" PIECES - SEAMLESS RADIAL PATTERN 1" THICK X 3/16" BAR	MONICHOLES® BAR GRATING Press-Locked, Rectangular Bar, GCM-1-100 ITEM 6601319999	STANDARD	
SS-1	SHADE SAILS		REFER TO DETAIL DIHS-10 FOR SIZES	WHITE		COASTAL CANVAS 912-236-2416

- NOTES:
- COLORS AND FINISHES AS DESIGNATED IDENTIFY ONE PRODUCER'S/ SUPPLIER'S PRODUCTS.
  - ALTERNATE PRODUCERS/ SUPPLIERS PRODUCTS SHALL MATCH EACH COLOR AND FINISH OF THE PRODUCER/ SUPPLIER LISTED.
  - PRODUCT SUBSTITUTION REQUESTS SHALL BE SUBMITTED BY THE CONTRACTOR WITHIN 15 DAYS AFTER THE COMMENCEMENT OF WORK. SUBMIT PRODUCT DATA AND FULL SIZE SAMPLES TO LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO ORDERING, PURCHASING, AND INSTALLATION OF THE PRODUCT.

**A MATERIALS FINISH SCHEDULE**

HS-10 SCALE: NONE

SYMBOL	MANUFACTURER/ MODEL NUMBER
	POLE LIGHT - REFER TO ELECTRICAL DRAWINGS
	WALL STEP LIGHT - REFER TO ELECTRICAL DRAWINGS
	UP-LIGHT - REFER TO ELECTRICAL DRAWINGS
	FLAGPOLE UP-LIGHTS - REFER TO ELECTRICAL DRAWINGS
	LANDSCAPE UP-LIGHT - REFER TO ELECTRICAL DRAWINGS
	FLAGPOLE UP-LIGHTS - REFER TO ELECTRICAL DRAWINGS
	STRIP LIGHT MOUNTED TO SHADE STRUCTURE - REFER TO ELECTRICAL DRAWINGS
	DOWN LIGHT - REFER TO ELECTRICAL DRAWINGS
	GFCI OUTLET - REFER TO ELECTRICAL DRAWINGS
	KEYED ACCESS PANEL - REFER TO ELECTRICAL DRAWINGS

**B LIGHTING FIXTURE SCHEDULE**

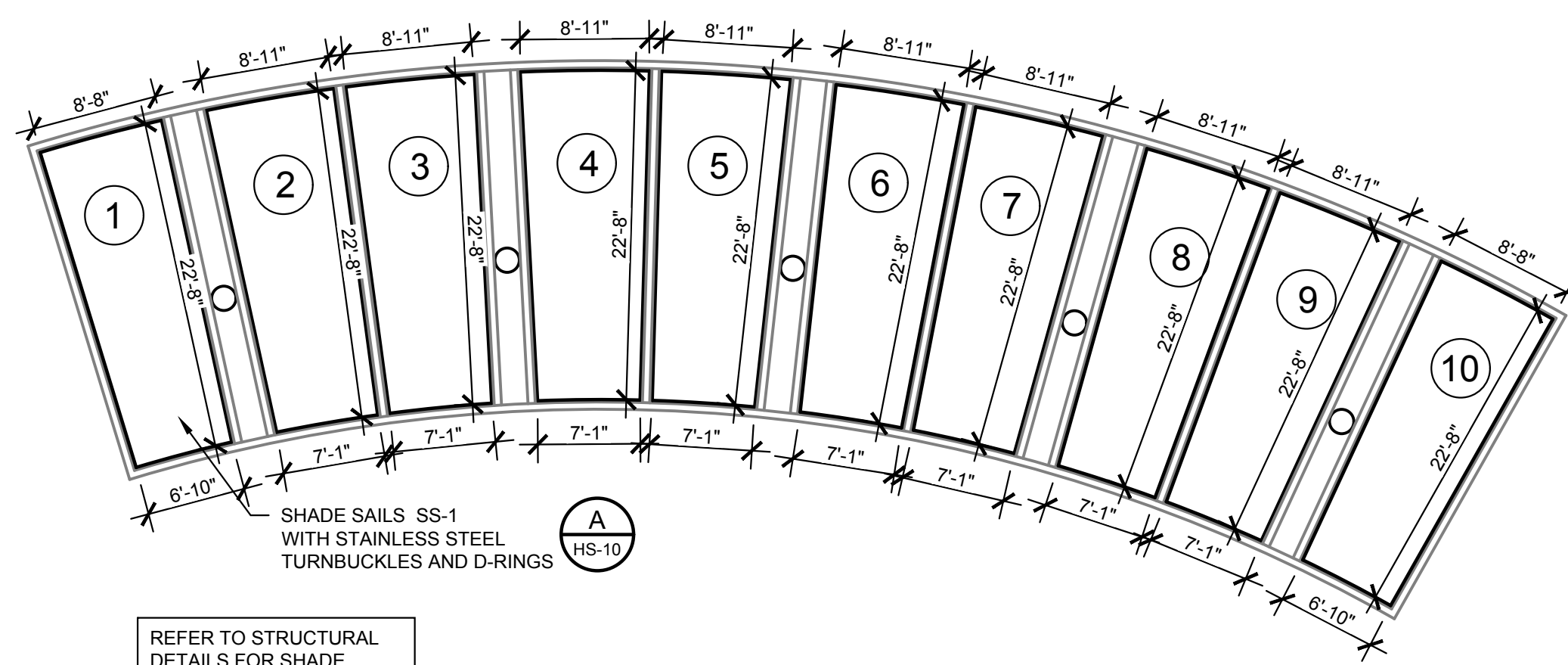
HS-10 SCALE: NONE  
FILE NAME: 20210410.DWG

QUANTITY	TYPE	MANUFACTURER/MODEL DESCRIPTION
4	BENCH	LANDSCAPE FORMS Neoliviano Bench 69" Backed - Jarrah Wood with Aluminum Supports
5	TRASH RECEPTACLE	FORMS AND SURFACES UNIVERSAL LITTER & RECYCLING RECEPTACLE SLUNN-30SSS Universal Receptacle, 30-gallon, side opening, standard opening / standard opening, stainless steel lid
60	CHAIRS	FORMS AND SURFACES SCAVO Avivo Chair Alabaster Powdercoat - Riva Perforation Pattern
8	TABLE 'A'	FORMS AND SURFACES STAVO-C42R Avivo Pedestal Cafe Table, 42" table top Alabaster Powdercoat - Umbrella hole Aluminum Inset - Riva Perforation Pattern
11	TABLE 'B'	FORMS AND SURFACES STAVO-C36R Avivo Pedestal Cafe Table, 36" table top Alabaster Powdercoat - Umbrella hole Aluminum Inset - Riva Perforation Pattern
8	UMBRELLA	TUCCI OCEAN MASTER MAX CLASSIC 8' square with G plate circular Polished Aluminum FABRIC: 4622 - TERRACOTTA
2	FLAGPOLE	MATCH EXISTING

- NOTES:
- SUBMIT PRODUCT DATA AND SHOP DRAWINGS TO THE LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO ORDERING, PURCHASING AND INSTALLATION OF PRODUCT.
  - PLANTER DRAINAGE TO BE CONNECTED TO STORM DRAINAGE SYSTEM

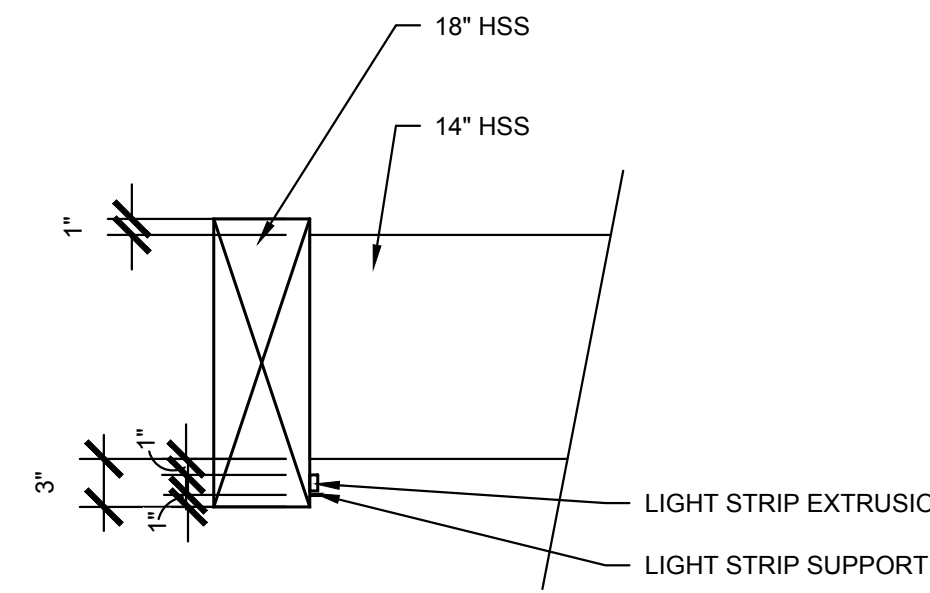
**C SITE FURNISHINGS SCHEDULE**

HS-10 SCALE: NONE



**D SHADE STRUCTURE SAILS - PLAN**

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



**E SHADE STRUCTURE LIGHT STRIP - SECTION**

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



3525 Piedmont RD NE  
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Atlanta, Georgia 30306  
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f. 404-248-1092

CONSULTANT LOGO:

CONSULTANT INFORMATION:

PROJECT TITLE:

**ROSA PARKS SQUARE RENOVATION  
PROJECT - ADD ALTERNATE SCOPE**

POPLAR STREET  
MACON, GEORGIA  
MACON-BIBB COUNTY  
MACON, GEORGIA

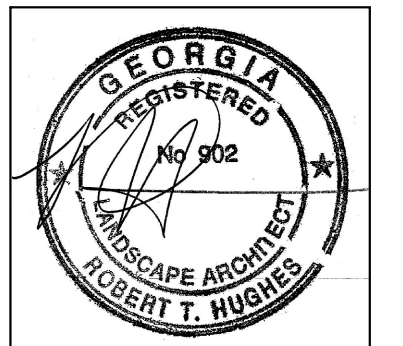
PROJECT NO:  
**21026**

PRINCIPAL IN CHARGE: TF  
PROJECT MANAGER: MW  
DRAWN BY: MW

ISSUE AND DATE:  
November 11th, 2021  
CONSTRUCTION DOCUMENTS

NO.	DATE	DESCRIPTION
1	04-05-2024	Revision 1

SEAL:



SHEET TITLE:  
**HARDSCAPE  
DETAILS**

SHEET NO:  
**HS-10**

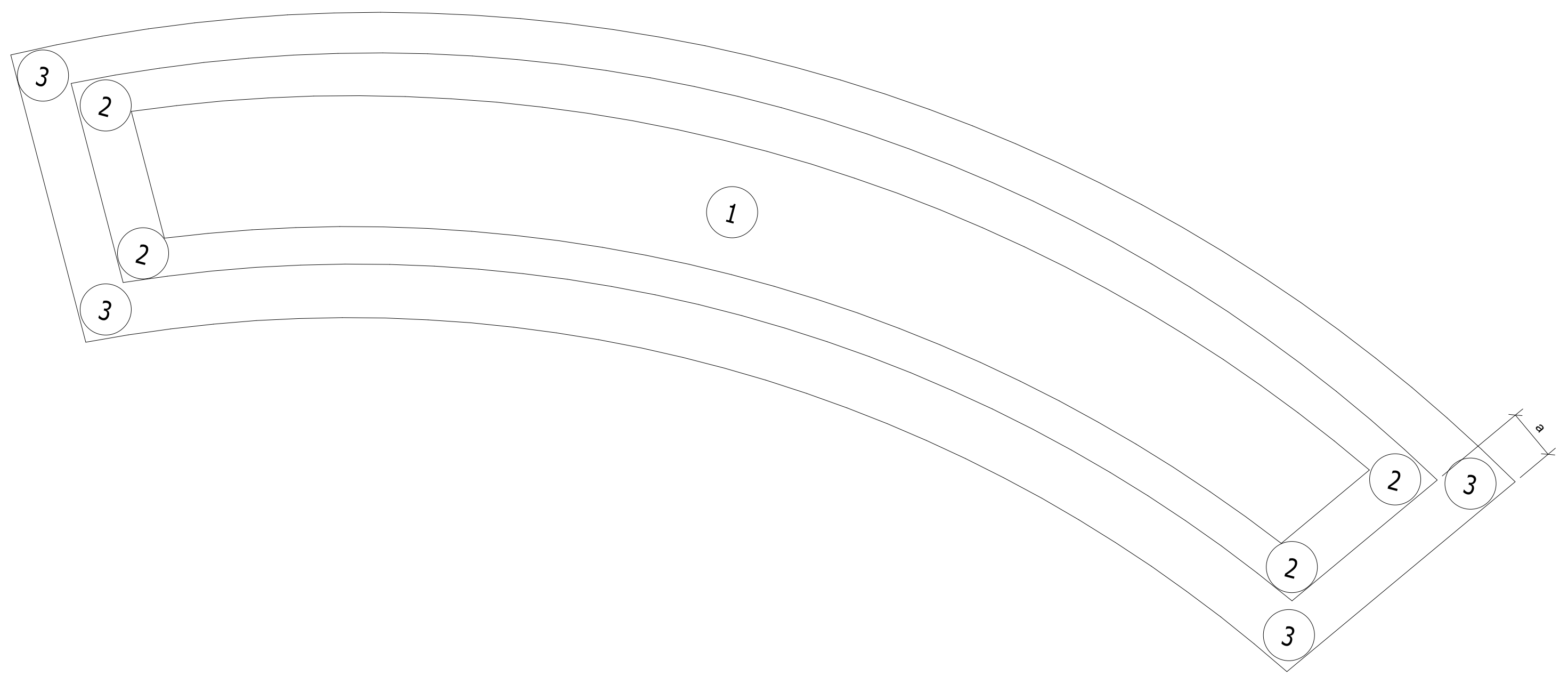
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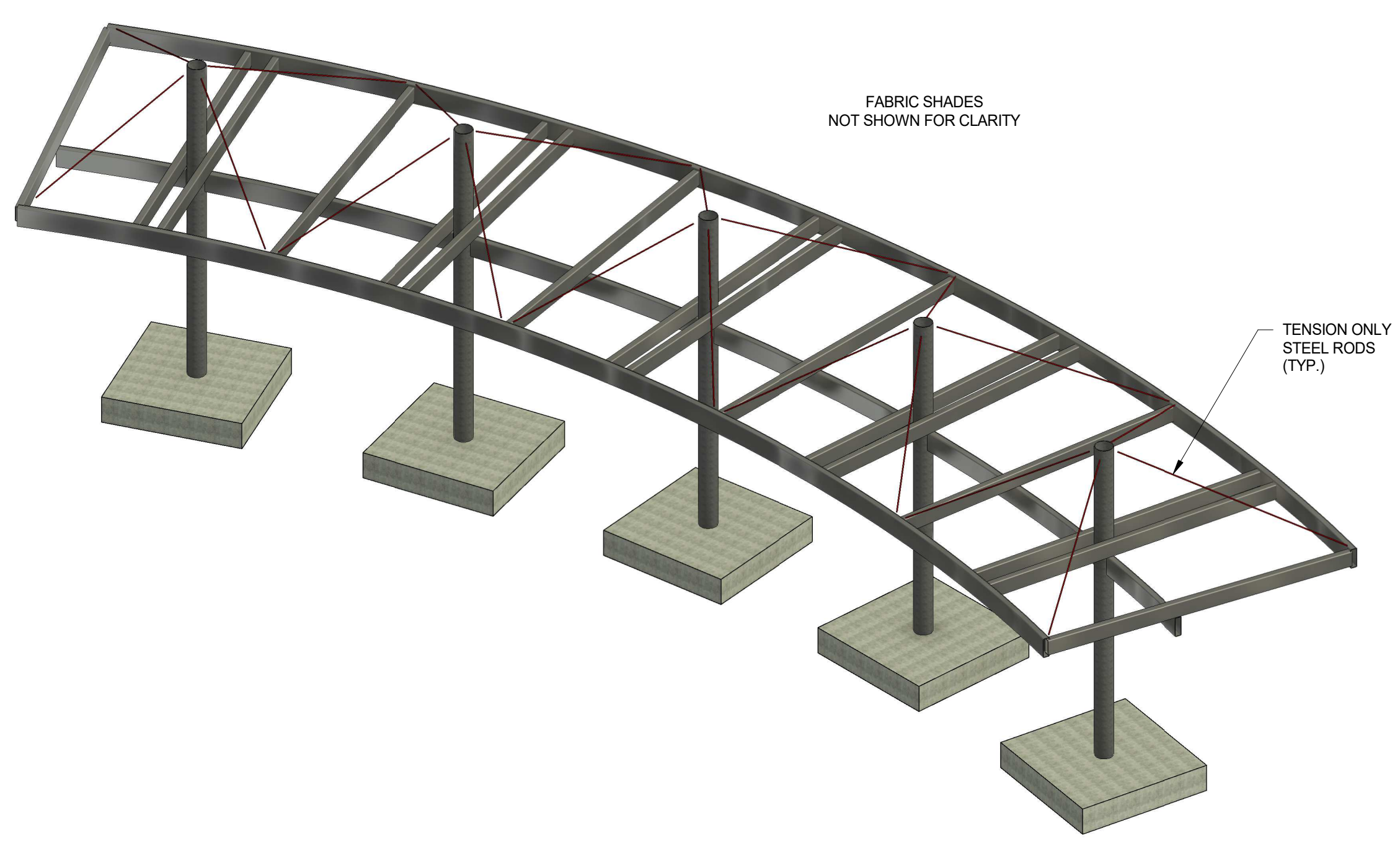


CANOPY STRUCTURE COMPONENT AND CLADDING WIND LOADS			
AREA SQ. FT. (SEE NOTE 2)	PRESSURE (PSF)		
	ZONE 1	ZONE 2	ZONE 3
9 (+a2)	+29.89 -27.40	+44.89 -42.35	+59.79 -62.21
9-36 (+a2+4a2)	+29.89 -27.40	+44.89 -42.35	+44.84 -42.35
36 (+4a2)	+29.89 -27.40	+29.89 -27.40	+29.89 -27.40

- NOTES:**
- (+) AND (-) INDICATES PRESSURES ACTING IN AND OUT OF BUILDING RESPECTIVELY FOR AREAS BETWEEN THESE GIVEN IN TABLE IT IS PERMITTED TO INTERPOLATE, OTHERWISE USE LOAD ASSOCIATED WITH LOWER AREA.
  - ZONES 1, 2, AND 3 APPLY TO THE ROOF.
  - "a" = 3'-0"



2 WIND LOAD DIAGRAM  
1/8" = 1'-0"



3 CANOPY ISOMETRIC



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PROJECT TITLE:

**ROSA PARKS SQUARE  
RENOVATION PROJECT**  
POPLAR STREET  
MACON, GEORGIA  
MACON-BIBB COUNTY  
MACON, GEORGIA

PROJECT NO:  
21026

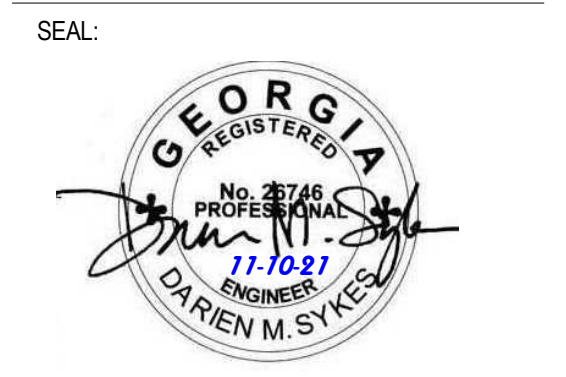
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DESIGNED BY: GB  
DRAWN BY: EN

ISSUE AND DATE:  
November 11, 2021

CONSTRUCTION DOCUMENTS

REVISIONS:

NO.	DATE	DESCRIPTION



SHEET TITLE:  
GENERAL NOTES

SHEET NO.:  
S-002

RELEASED FOR CONSTRUCTION

PROJECT TITLE:

**ROSA PARKS SQUARE  
RENOVATION PROJECT**  
POPLAR STREET  
MACON, GEORGIA  
MACON-BIBB COUNTY  
MACON, GEORGIA

PROJECT NO:  
21026  
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DESIGNED BY: GB  
DRAWN BY: EN

ISSUE AND DATE:  
November 11, 2021

CONSTRUCTION DOCUMENTS

REVISIONS:

NO.	DATE	DESCRIPTION

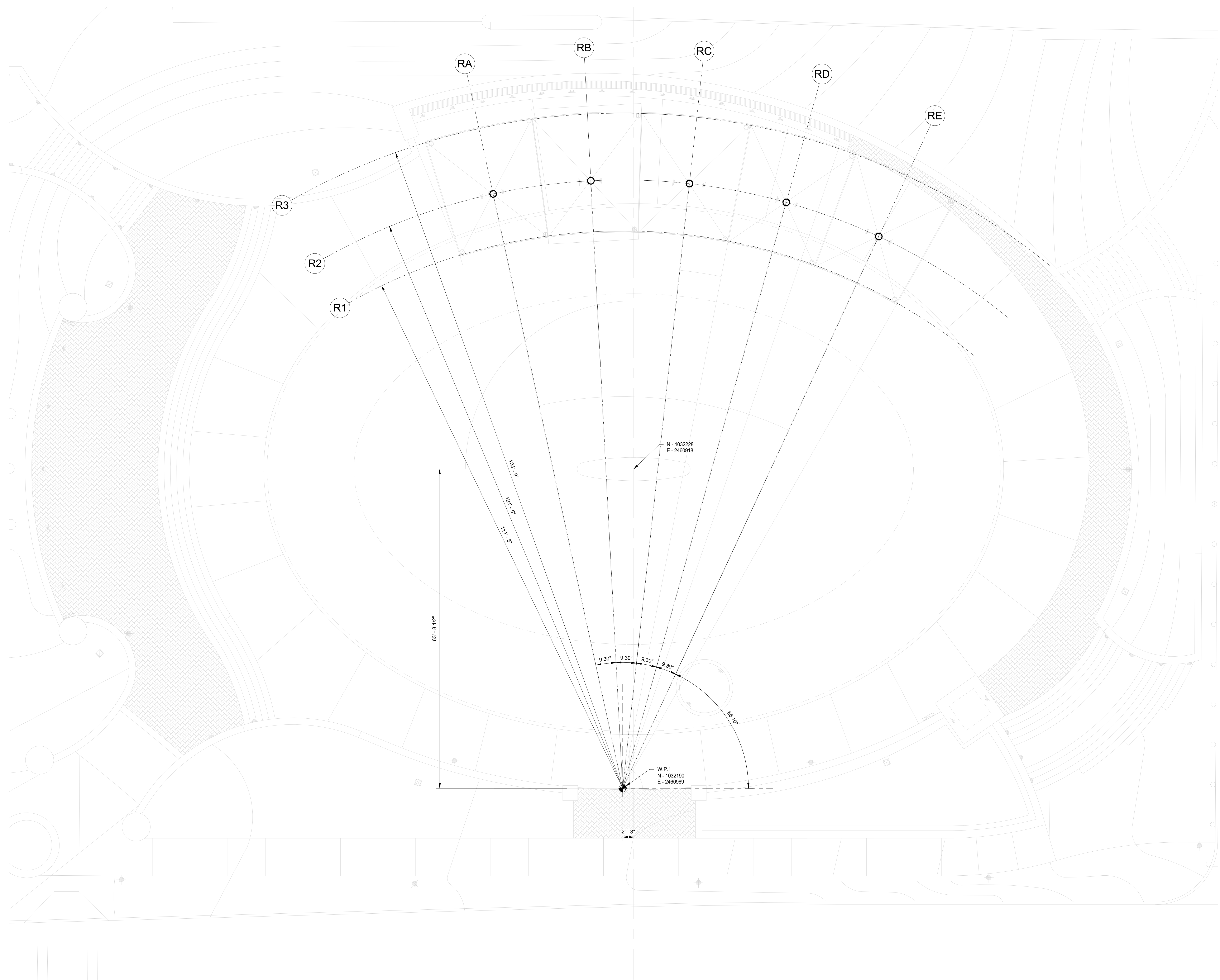
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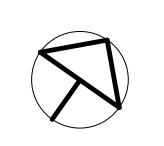
SHEET TITLE:  
GRID GEOMETRY

SHEET NO:  
**S-003**

RELEASED FOR CONSTRUCTION



① GRID GEOMETRY PLAN  
1/8" = 1'-0"



PROJECT TITLE:

**ROSA PARKS SQUARE  
RENOVATION PROJECT**  
POPLAR STREET  
MACON, GEORGIA  
MACON-BIBB COUNTY  
MACON, GEORGIA

PROJECT NO:

21026

CHECKED BY: DG  
DESIGNED BY: GB  
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ISSUE AND DATE:  
November 11, 2021

CONSTRUCTION DOCUMENTS

REVISIONS:

NO. DATE DESCRIPTION

NO.	DATE	DESCRIPTION
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SEAL:



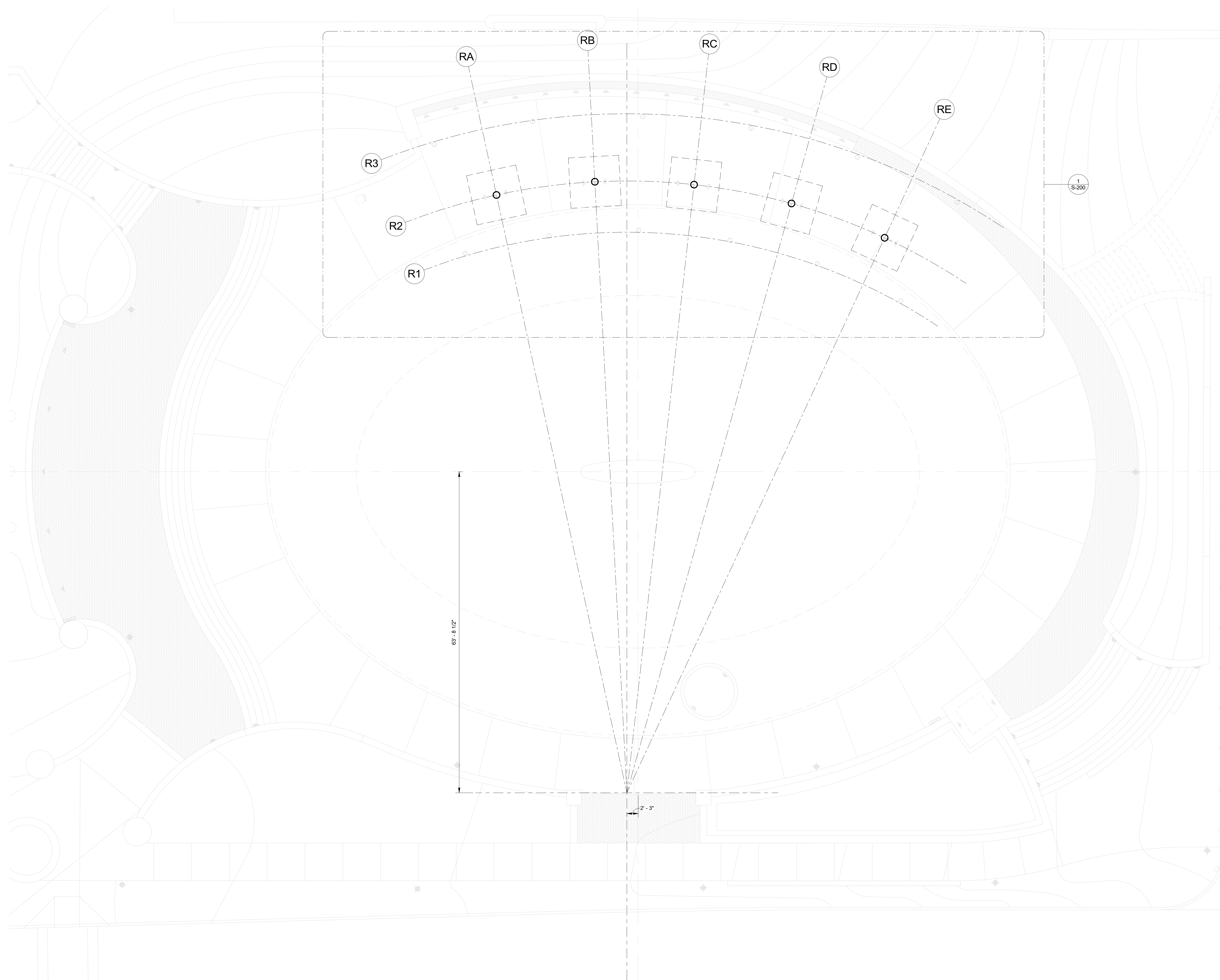
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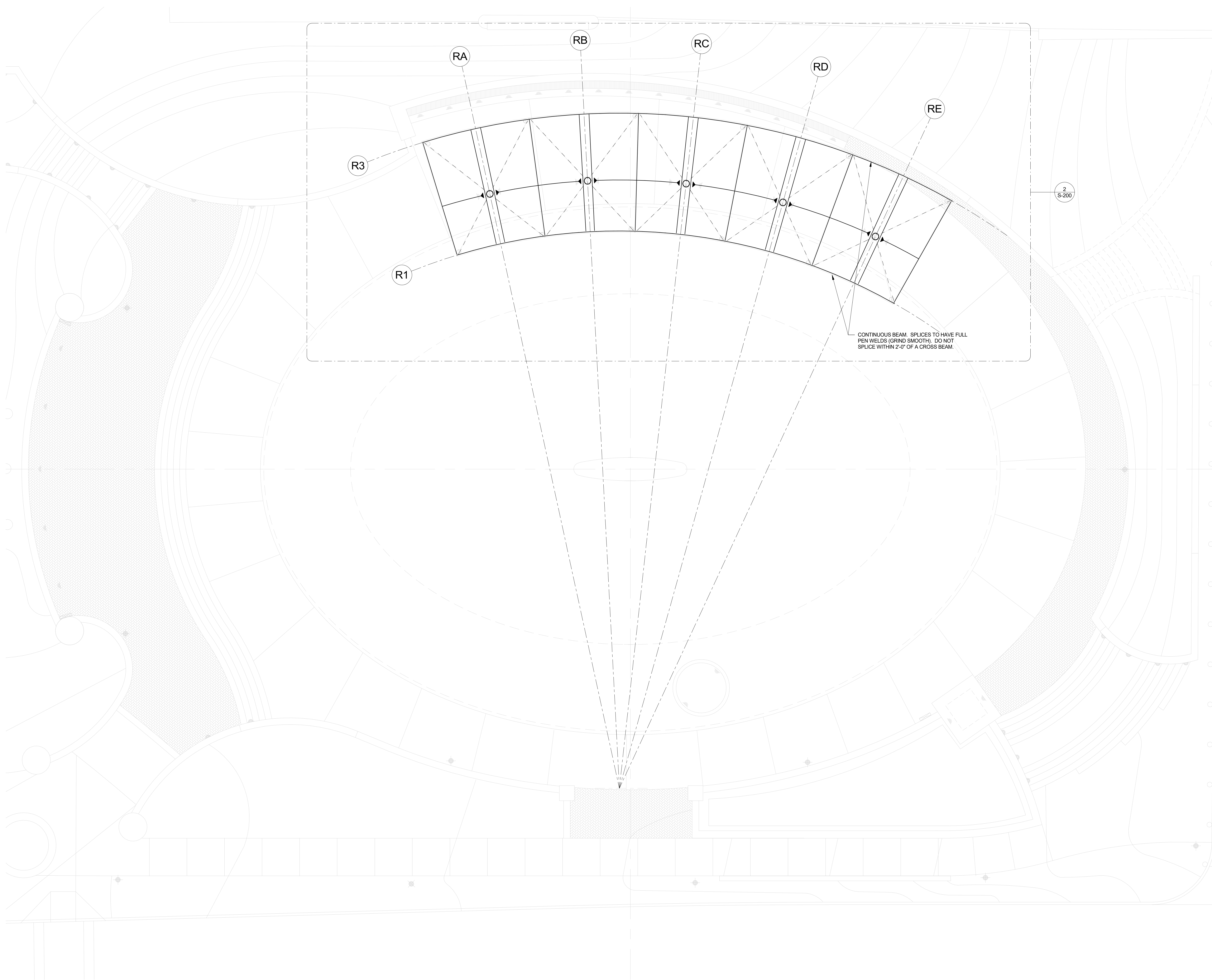
**OVERALL  
FOUNDATION PLAN**

SHEET NO.:

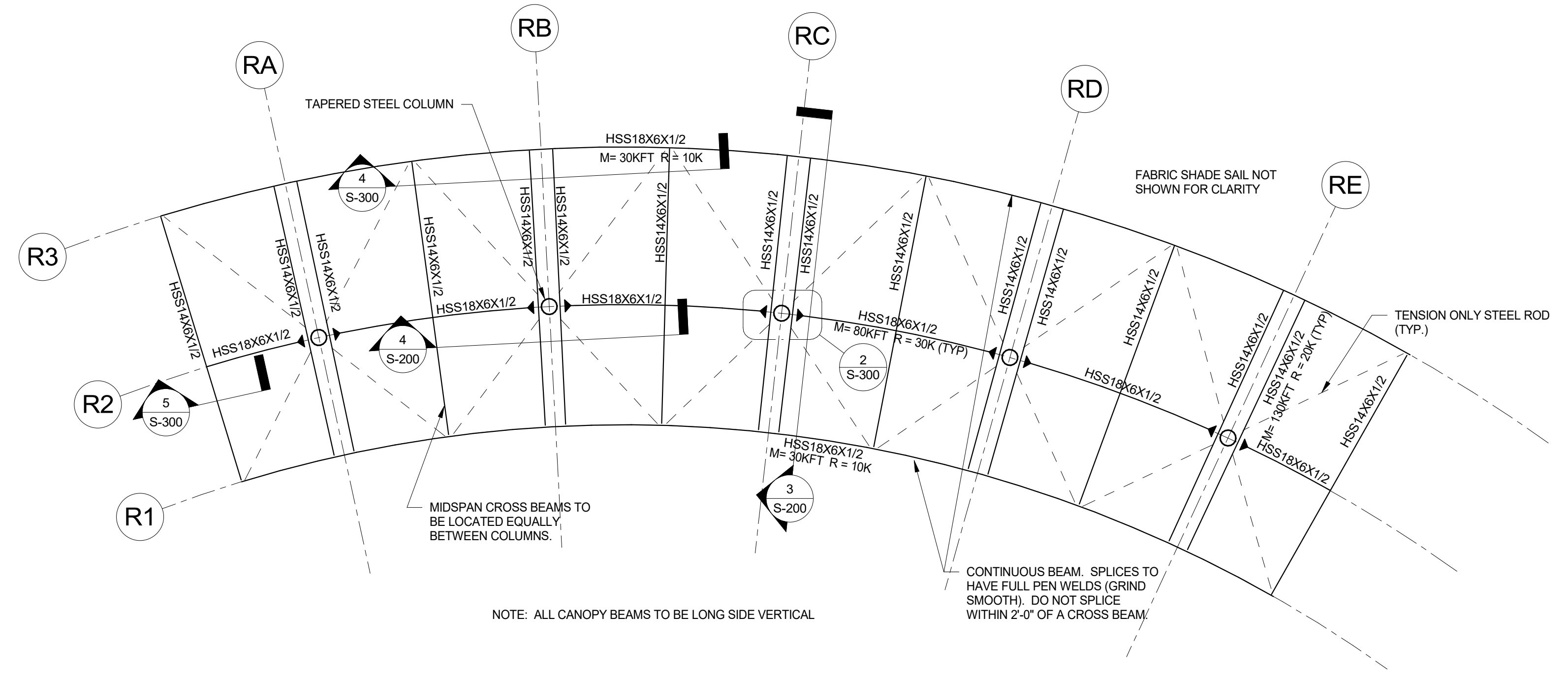
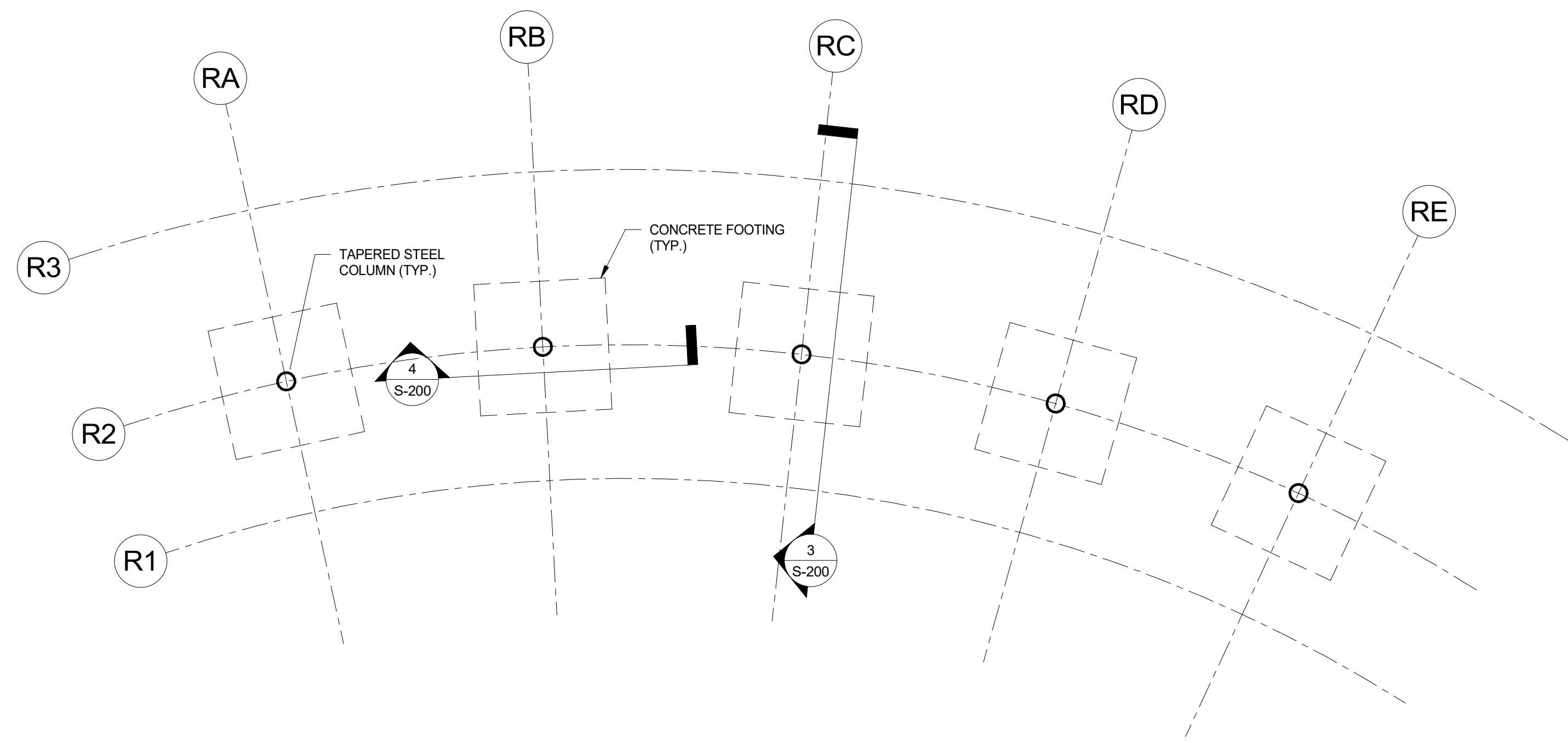
**S-100**

RELEASED FOR CONSTRUCTION



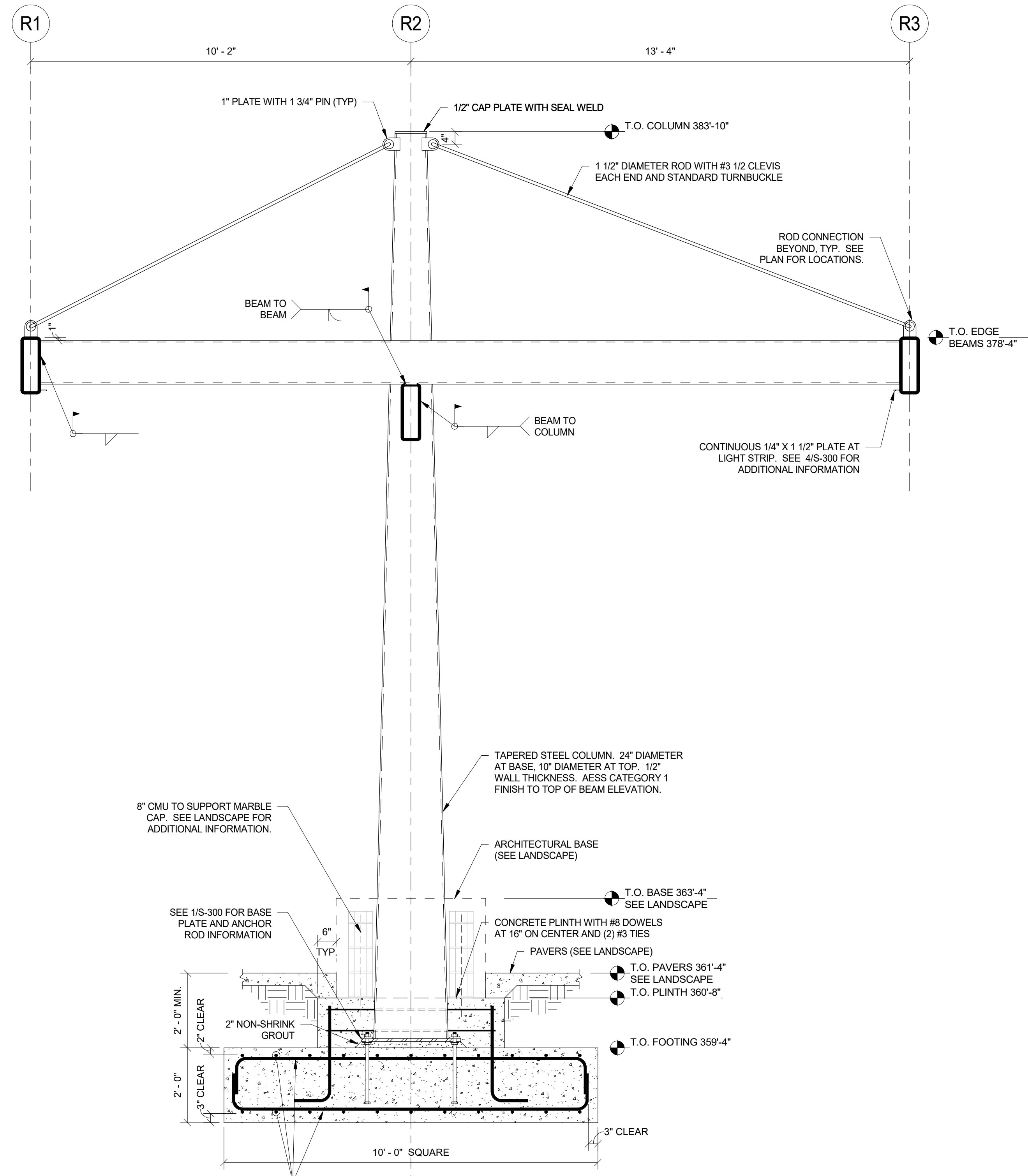




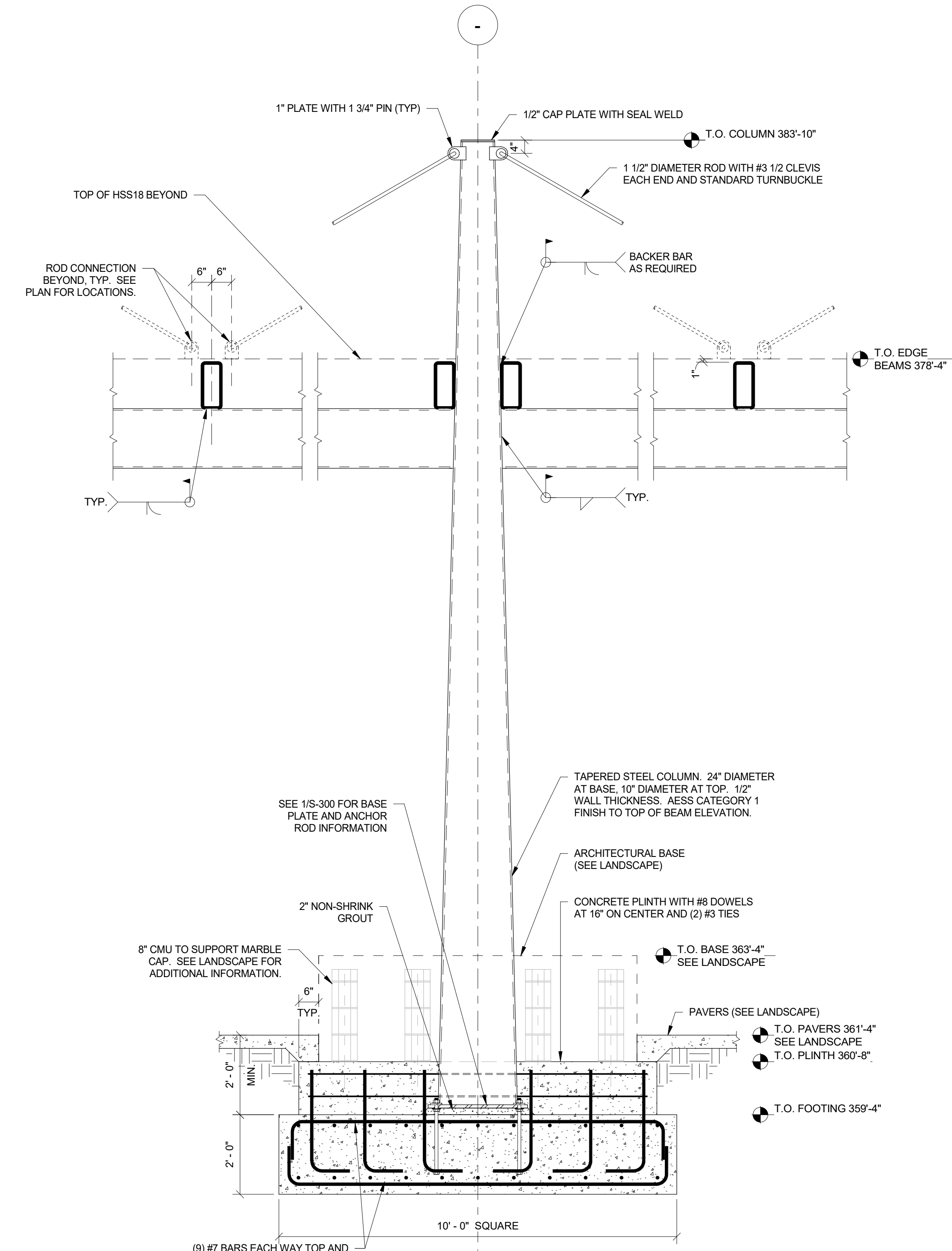


1 ENLARGED FOUNDATION PLAN  
1/8" = 1'-0"

2 ENLARGED FRAMING PLAN  
1/8" = 1'-0"



3 CROSS SECTION AT CANOPY  
1/2" = 1'-0"



4 PARTIAL LONGITUDINAL SECTION AT CANOPY  
1/2" = 1'-0"



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CONSULTANT LOGO:  
**SYKES**  
CONSULTING, INC.  
Sykes Consulting, Inc.  
1175 Peachtree Street N.E.  
Suite 2200  
Atlanta, Georgia 30361-6305  
Phone: 404.248.1538 Ext.239  
Office Fax: 404.248.9712  
http://www.sykes-consulting.com

PROJECT TITLE:

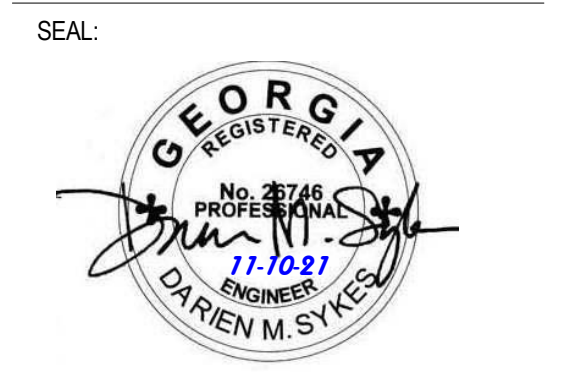
**ROSA PARKS SQUARE  
RENOVATION PROJECT**  
POPLAR STREET  
MACON, GEORGIA  
MACON-BIBB COUNTY  
MACON, GEORGIA

PROJECT NO:  
21026  
CHECKED BY: DG  
DESIGNED BY: GB  
DRAWN BY: EN

ISSUE AND DATE:  
November 11, 2021  
CONSTRUCTION DOCUMENTS

REVISIONS:

NO.	DATE	DESCRIPTION



SHEET TITLE:  
ENLARGED PLANS  
AND SECTIONS

SHEET NO:  
**S-200**

RELEASED FOR CONSTRUCTION

7

6

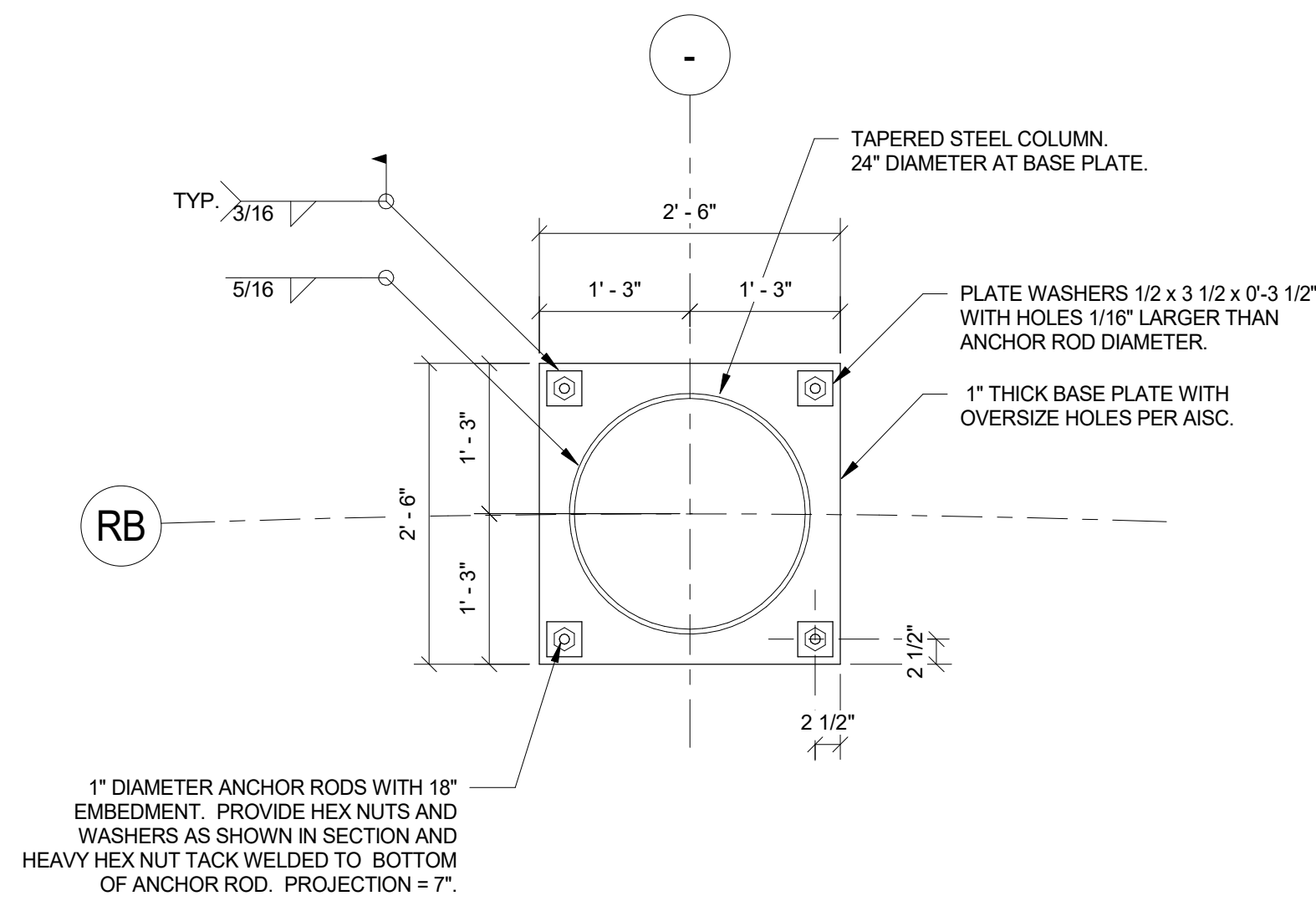
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4

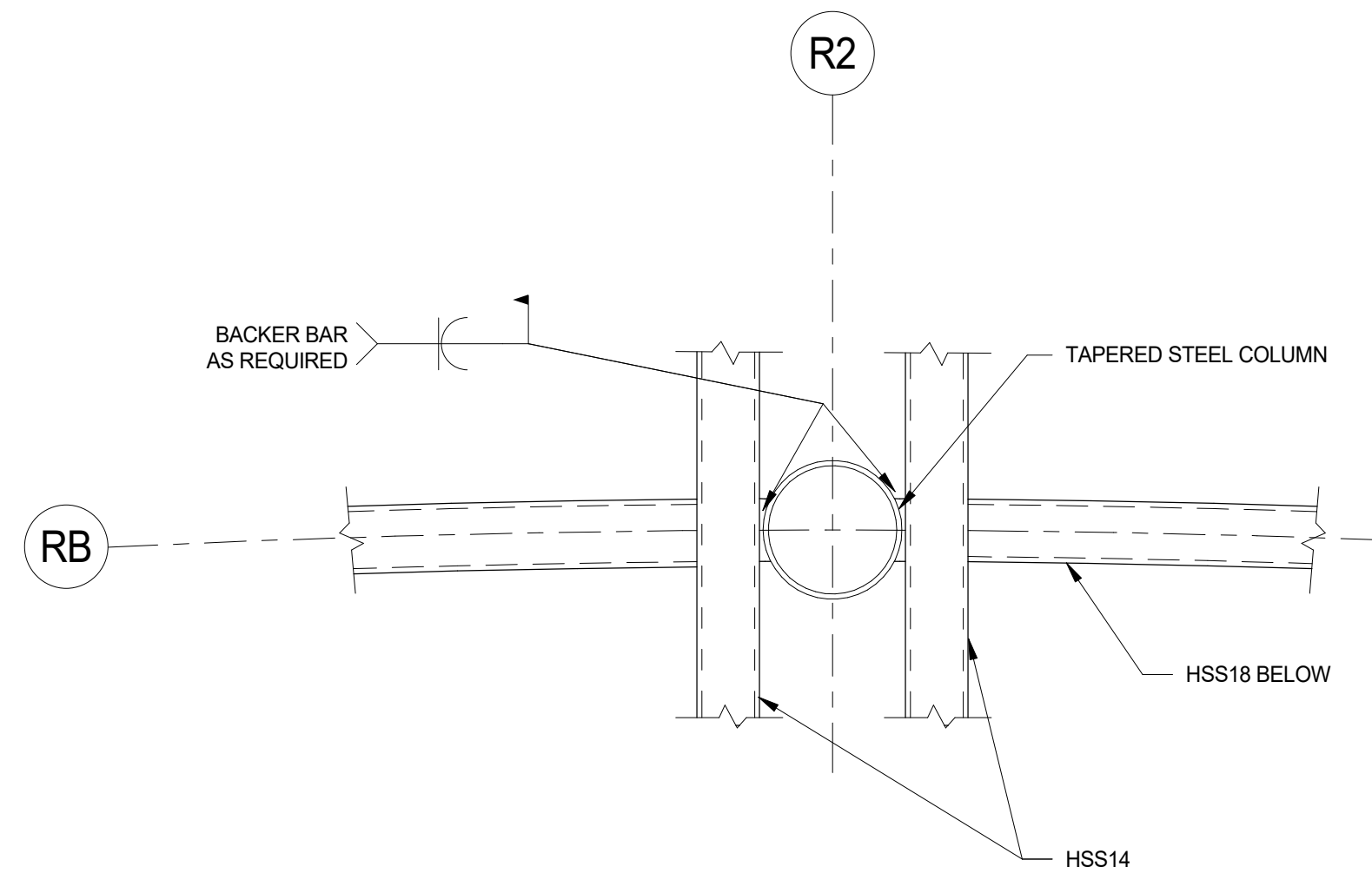
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2

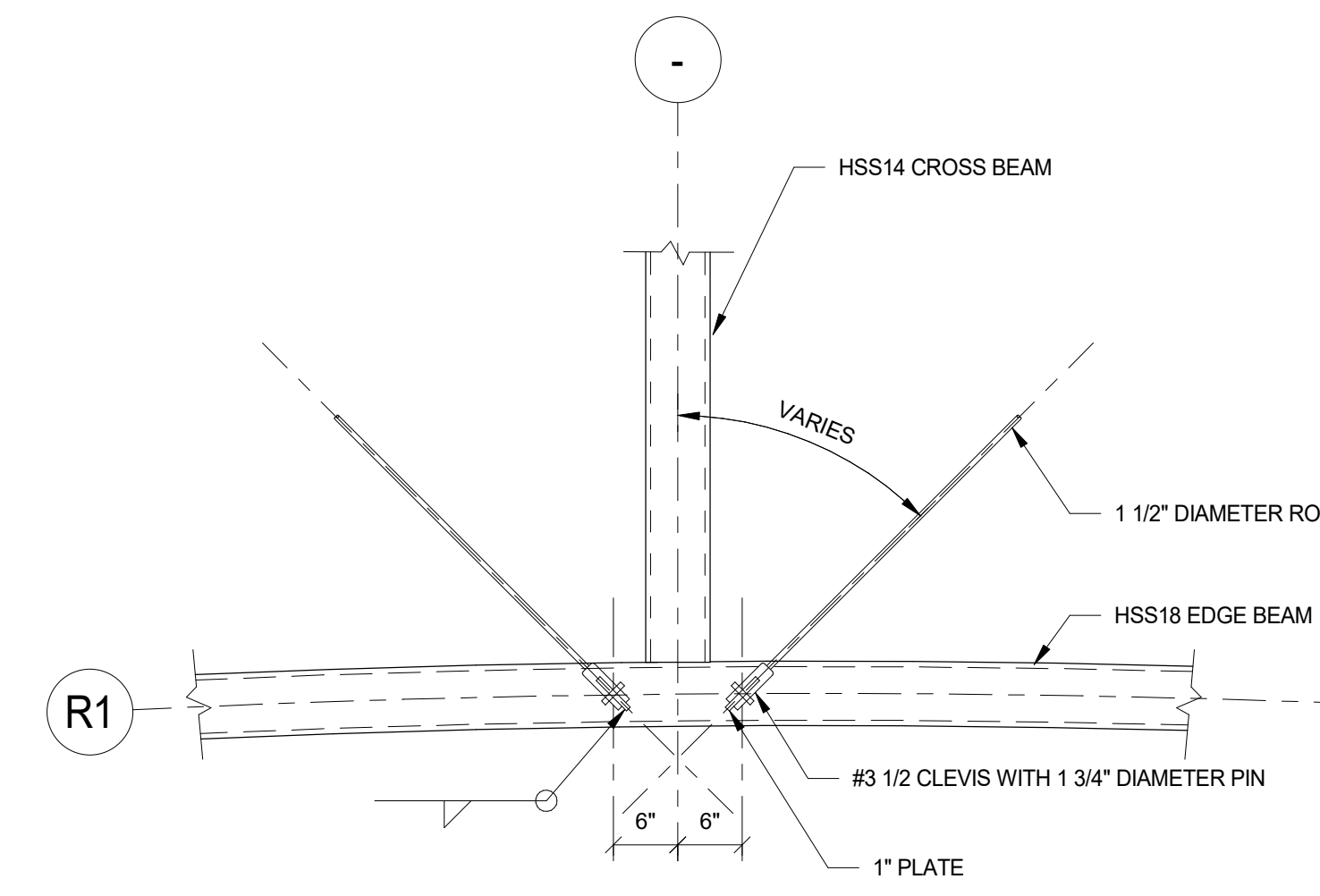
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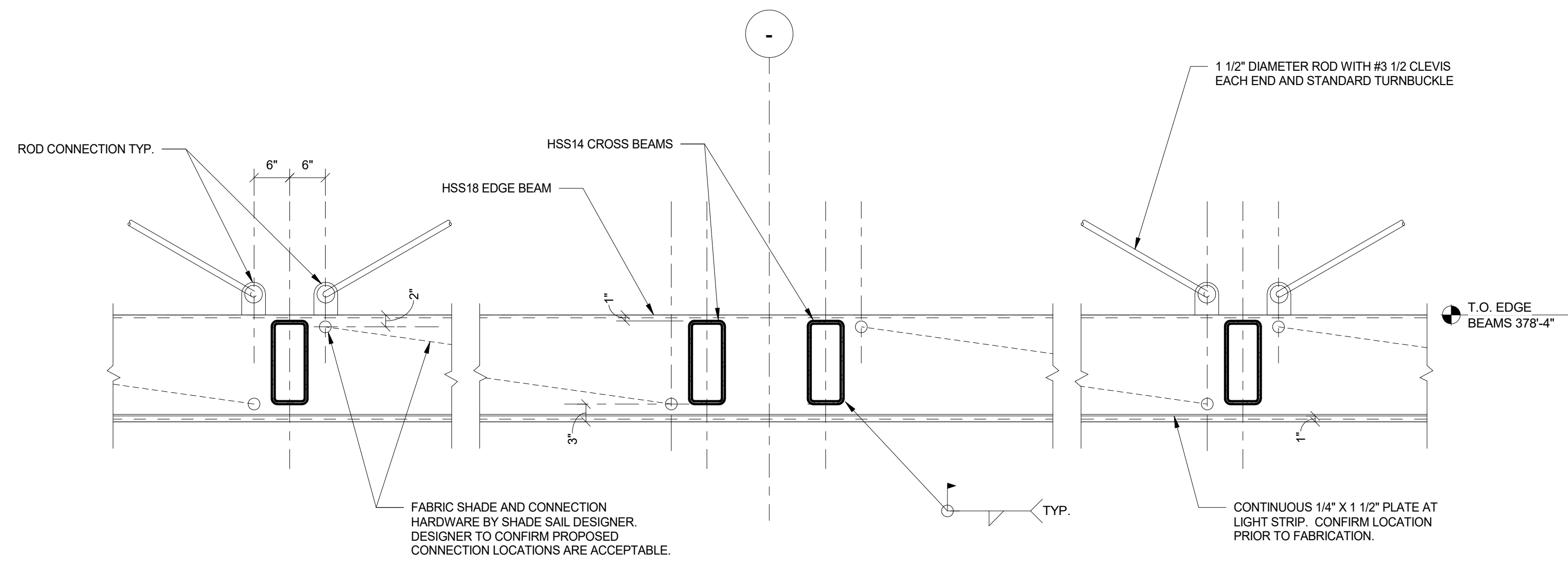
1 BASE PLATE DETAILS  
3/4" = 1'-0"



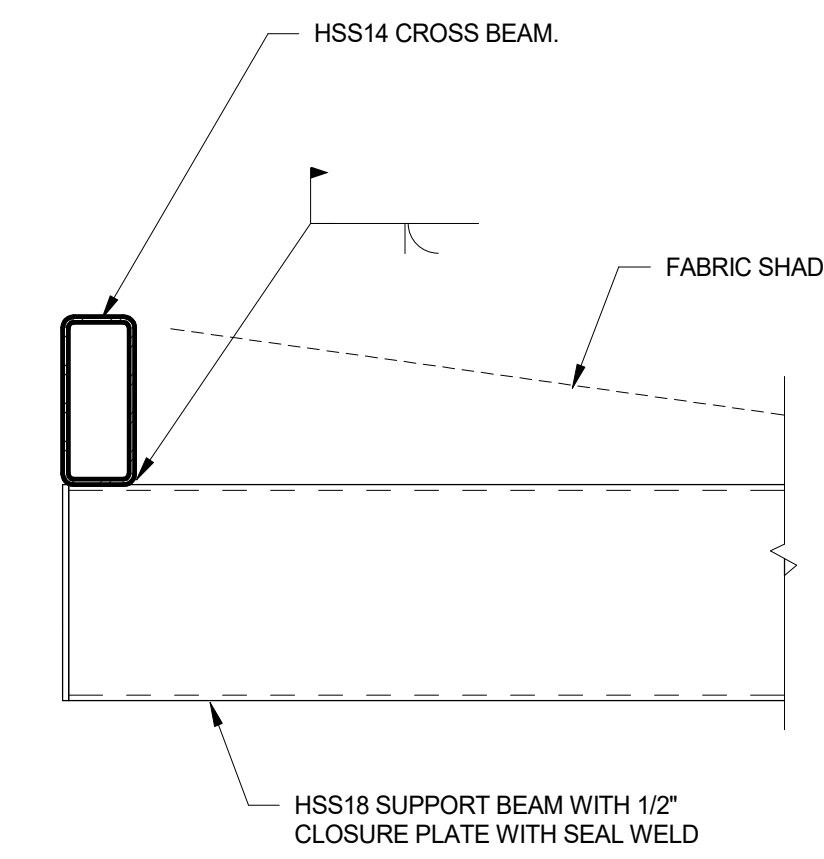
2 DETAIL AT BEAM / COLUMN INTERSECTION  
3/4" = 1'-0"



3 DETAIL AT ROD CONNECTION  
3/4" = 1'-0"



4 PROPOSED SHADE ATTACHMENT LOCATIONS  
3/4" = 1'-0"



5 EDGE OF CANOPY AT CENTER SUPPORT BEAM  
3/4" = 1'-0"

HGOR

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CONSULTANT LOGO:  
**SYKES**  
CONSULTING, INC.  
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1175 Peachtree Street N.E.  
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Atlanta, Georgia 30361-6305  
Phone: 404.248.1538 Ext.239  
Office Fax: 404.249.9712  
<http://www.sykes-consulting.com>

PROJECT TITLE:

D

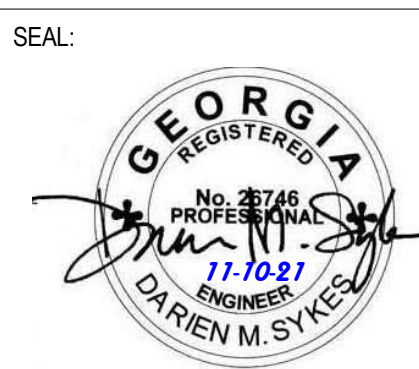
**ROSA PARKS SQUARE  
RENOVATION PROJECT**  
POPLAR STREET  
MACON, GEORGIA  
MACON-BIBB COUNTY  
MACON, GEORGIA

PROJECT NO:  
21026  
CHECKED BY: DG  
DESIGNED BY: GB  
DRAWN BY: EN

ISSUE AND DATE:  
November 11, 2021  
CONSTRUCTION DOCUMENTS

REVISIONS:







NO.	DATE	DESCRIPTION

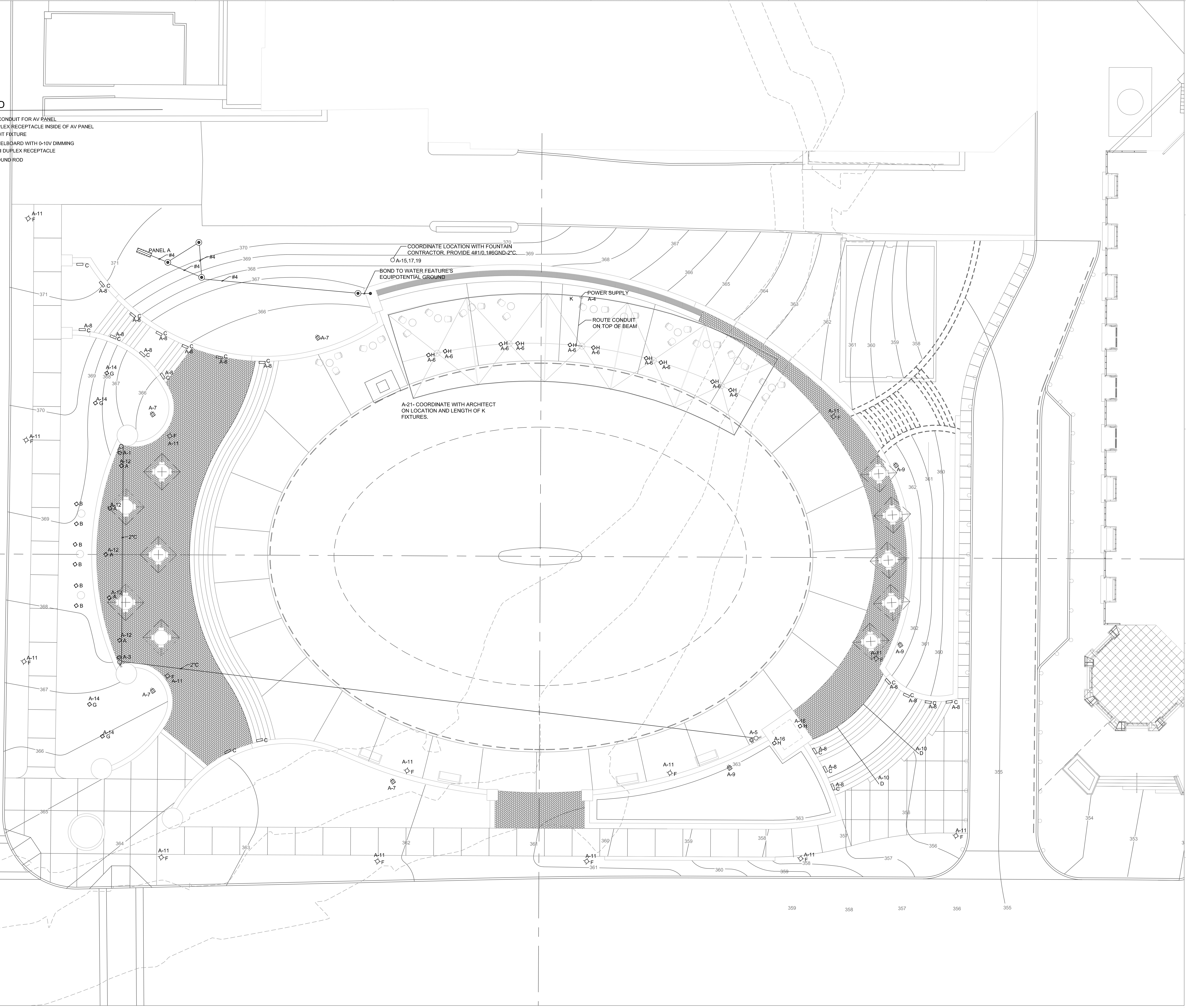


SHEET TITLE:  
CANOPY SECTIONS  
AND DETAILS

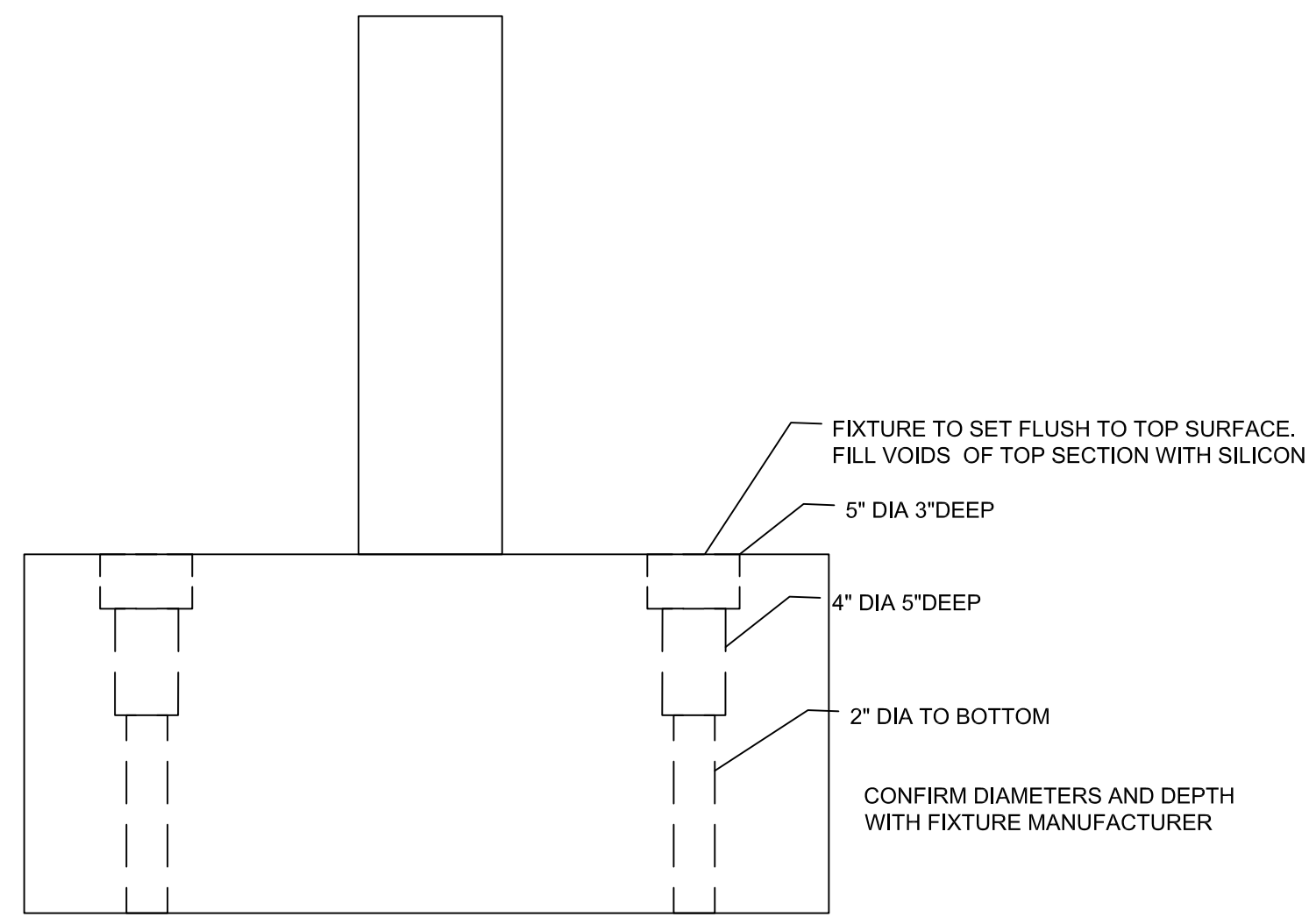
SHEET NO:  
**S-300**

REVISIONS FOR CONSTRUCTION

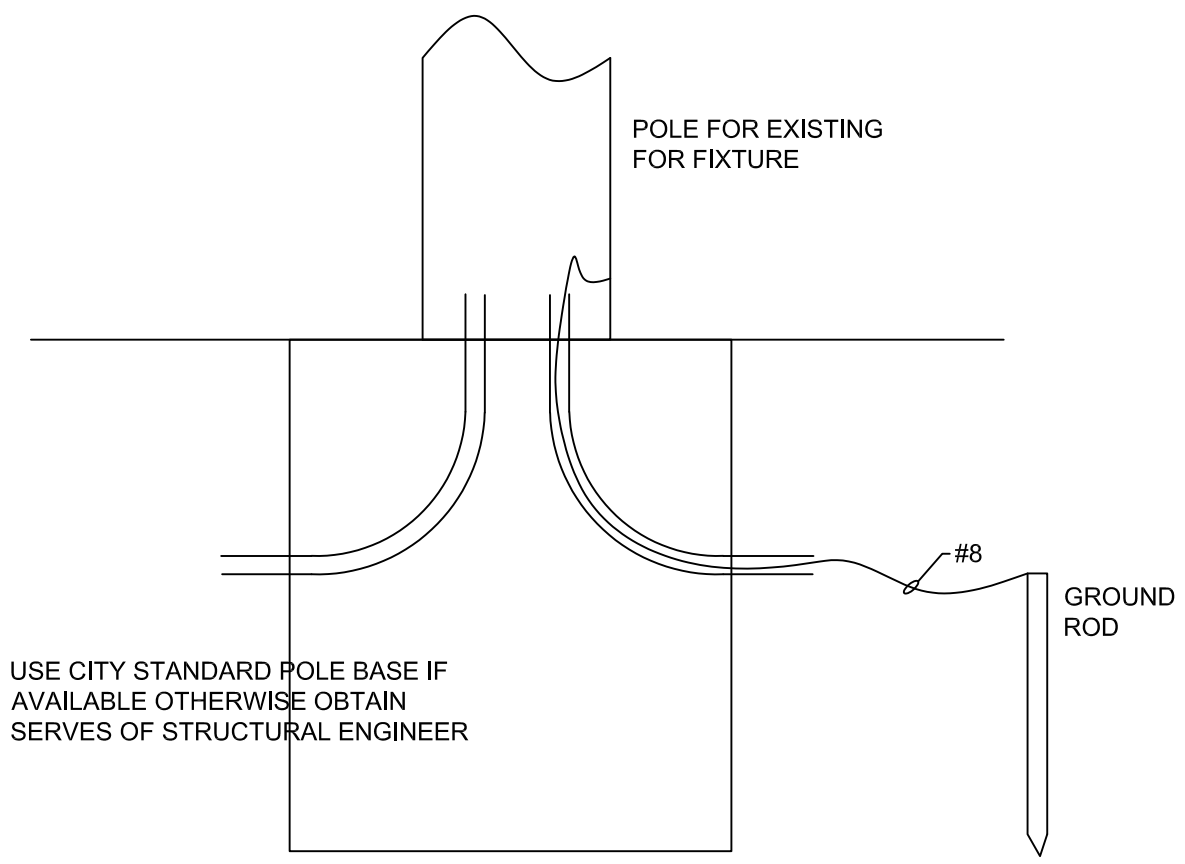
- LEGEND**
-  2" CONDUIT FOR AV PANEL
  -  DUPLEX RECEPTACLE INSIDE OF AV PANEL
  -  LIGHT FIXTURE
  -  PANELBOARD WITH 0-10V DIMMING
  -  GFCI DUPLEX RECEPTACLE
  -  GROUND ROD



Last modified on 11/10/21 by WENSOR  
 File located in R:\2021\010\_Rosa Parks Square\6 - Slik Drawings\Electrical\21026\GT-1.dwg



**B SHADE STRUCTURE BASE DETAIL**  
E-101 SCALE: NTS



**A POLE BASE DETAIL**  
E-101 SCALE: NTS

LIGHTING SCHEDULE					
TYPE	DESCRIPTION	BRAND	CATALOGUE NUMBER	WATTS	MOUNTING
A	INGROUND WALLWASH	WE-EF	ETC120-GB LED-185-7592-185-2865-185-2869-185-1624	7.7W	INGROUND
B	INGROUND FLAG POLE	HYDREL	M9410C-SS-LED-P2-35K-MVOLT-NFL-FLC10SR-X-LDIM	20W	INGROUND
C	STEP LIGHT	HYDREL	HSL13-6INCH-LED-35K-MVOLT-L-MIN5-BB	5W	WALL 18" AFF
D	ILLUMINATED RAIL	WAGNER	LULS-35K-40-120-MS-X-PWM	3.57W/FT	STAIR RAIL
E	CONOPY FIXTURE	LUMARK	CLCS15	40W	SURFACE
F	POST FIXTURES		EXISTING TO BE RELOCATED CITY FIXTURES	100W	EXISTING POST
G	INGROUND FLOOD	HYDREL	PALMA-R-P1-35K-120-55DEG-WSL-KM-SS	18W	INGROUND
H	INGROUND FLOOD	HYDREL	PDX4-SS-9LED-WHT30K-MVOLT-MFL-FLCSR-X-TKO	10W	INGROUND
K	LINEAR LED CANOPY	Q-Tran	SW-HE24/3.0-WET-30-BW-BW-X-CL2-X-WIDE-X-PL-FR-P1-X-Q2-X-UV-24V-PH010-X	10W	SURFACE

A LOCATION: HEADWORKS ELECTRICAL ROOM BUILDING 11												
TYPE: PEDSTAL MOUNTED												
SERVICE: 208Y/120V, 3PH, 4W												
MOUNTING: SURFACE												
MOUNTING: SURFACE												
CKT	TRIP	POLE	LOAD DESCRIPTION	CKT KVA	PH-A	PH-B	PH-C	CKT KVA	LOAD DESCRIPTION	POLE	TRIP	CKT
1	20	1	AV PANEL 1	1.40	1.40			0.00	SPARE	1	15	2
3	20	1	AV PANEL 2	1.40		1.46		0.06	CANOPY DOWNLIGHTING	1	15	4
5	20	1	AV PANEL 3	1.40			1.50	0.10	CANOPY UPLIGHTING	1	15	6
7	20	1	RECEPTACLES WEST	0.72	0.82			0.10	STAIR WALL LIGHTING	1	15	8
9	20	1	RECEPTACLES EAST	0.54		0.69		0.15	STAIR RAIL LIGHTING	1	15	10
11	20	1	POST LIGHTING	1.40			1.44	0.04	MEMORIAL WALL LIGHTING	1	15	12
13	*	*	RESERVED FOR POST LIGHTING	0.00	0.07			0.07	TREE LIGHTING	1	15	14
15	125	3	WATER FEATURE	12.00		12.04		0.04	STATUE LIGHTING	1	15	16
17	/	/	---	12.00			12.00	0.00		1	15	18
19	/	/	---	12.00				0.00		1	15	20
21	15	1		0.00			0.00	0.00		1	15	22
23	15	1		0.00			0.00	0.00		1	15	24
25	15	1		0.00	0.00			0.00		1	15	26
27	15	1		0.00			0.00	0.00		1	15	28
29	15	1		0.00			0.00	0.00		1	15	30
TOTAL CONNECTED PHASE KVA:				14.29	14.19	14.04						
TOTAL CONNECTED KVA:				43.42								
DEMAND OR DESIGN KVA:				49.26								
FUTURE KVA:				0.00								
TOTAL DEMAND OR DESIGN KVA:				49.26								
DEMAND OR DESIGN AMPERES:				136.73								
										AMPERES INTERRUPTING RATING:		
										14,000 AIC		



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CONSULTANT INFORMATION:

PROJECT TITLE:

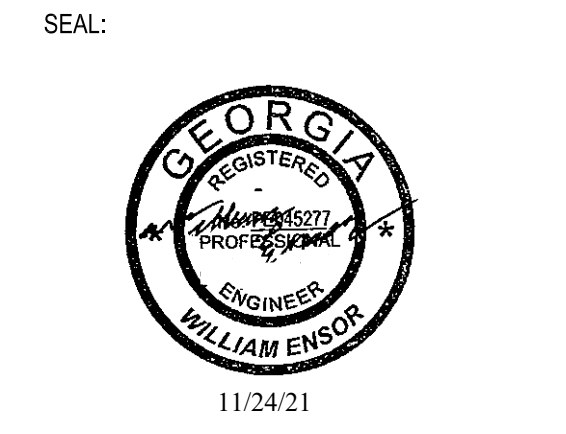
**ROSA PARKS SQUARE  
RENOVATION PROJECT**  
POPLAR STREET  
MACON, GEORGIA  
MACON-BIBB COUNTY  
MACON, GEORGIA

PROJECT NO:  
**21026**

PRINCIPAL IN CHARGE: TF  
PROJECT ARCHITECT:  
DRAWN BY: MW

ISSUE AND DATE:  
November 11th, 2021  
CONSTRUCTION DOCUMENTS

REVISIONS:  
NO. DATE DESCRIPTION



SHEET TITLE:  
**ELECTRICAL  
SCHEDULES AND  
DETAILS**

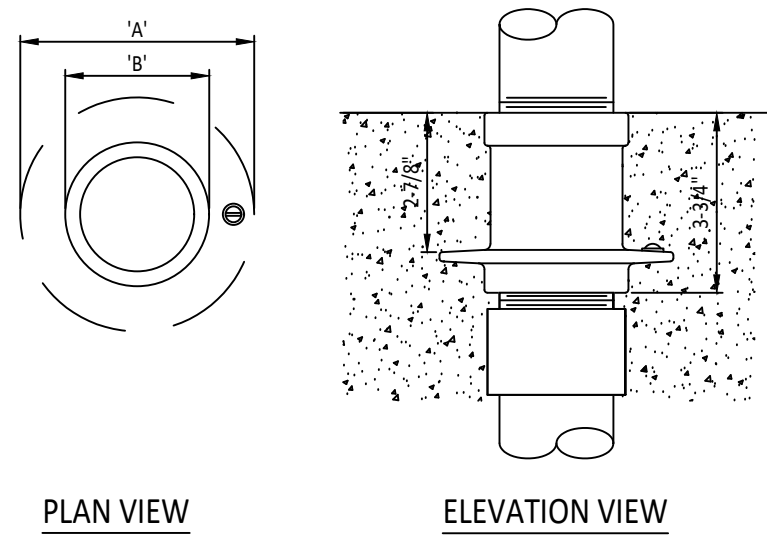
SHEET NO:  
**E-200**

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File located in R:\2021010 Rosa Parks Square\6 - SLK Drawings\Electrical\21026\GT-1.dwg

**FWS WATERSTOP FITTING**

**PRODUCT SPECIFICATION:**  
FWS-Series Waterstop Fitting consists of a coupling with an integral waterstop plate, bonding lug and female threaded connections. Construction shall be of cast bronze, copper and brass with a natural finish.

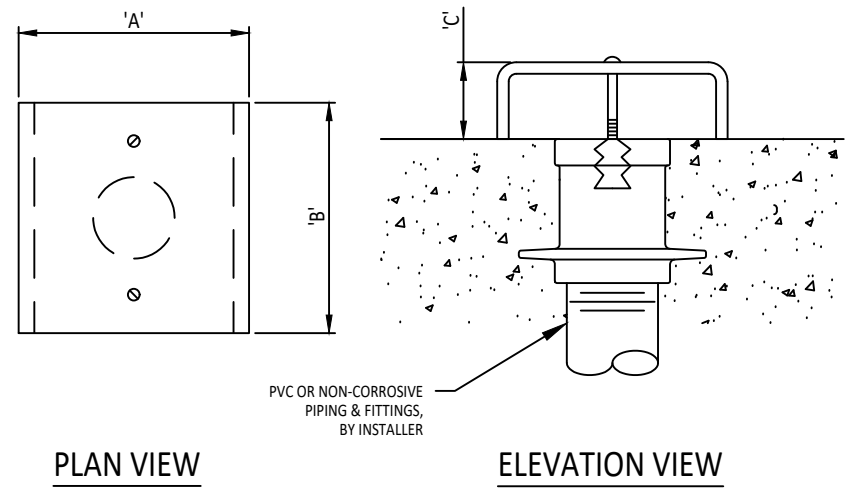


MODEL #	FNPT	Measurements	
		"A"	"B"
FWS-050	1/2"	3-1/2"	1-3/4"
FWS-075	3/4"	3-1/2"	1-3/4"
FWS-100	1"	5"	1-3/4"
FWS-125	1-1/4"	5"	3"
FWS-150	1-1/2"	5"	3"
FWS-200	2"	5"	3"
FWS-300	3"	7"	5-1/4"
FWS-400	4"	7"	5-1/4"

ITEM # 01 QTY(4)

**DIV-PL SERIES DIVERTER PLATE**

**PRODUCT SPECIFICATION:**  
DIV-PL Series Diverter Plate consists of a 1/8" thick brass (C-channel) bent plate. Construction is brushed natural finish with 5/16" clearance holes for a 1/4" stainless anchors, by installer. DIV-PL Series Diverter Plate is used for either an anti-vortex device or a diverter device in narrow troughs and pool where bi-directional flow is required, and surface turbulence needs to be minimized.

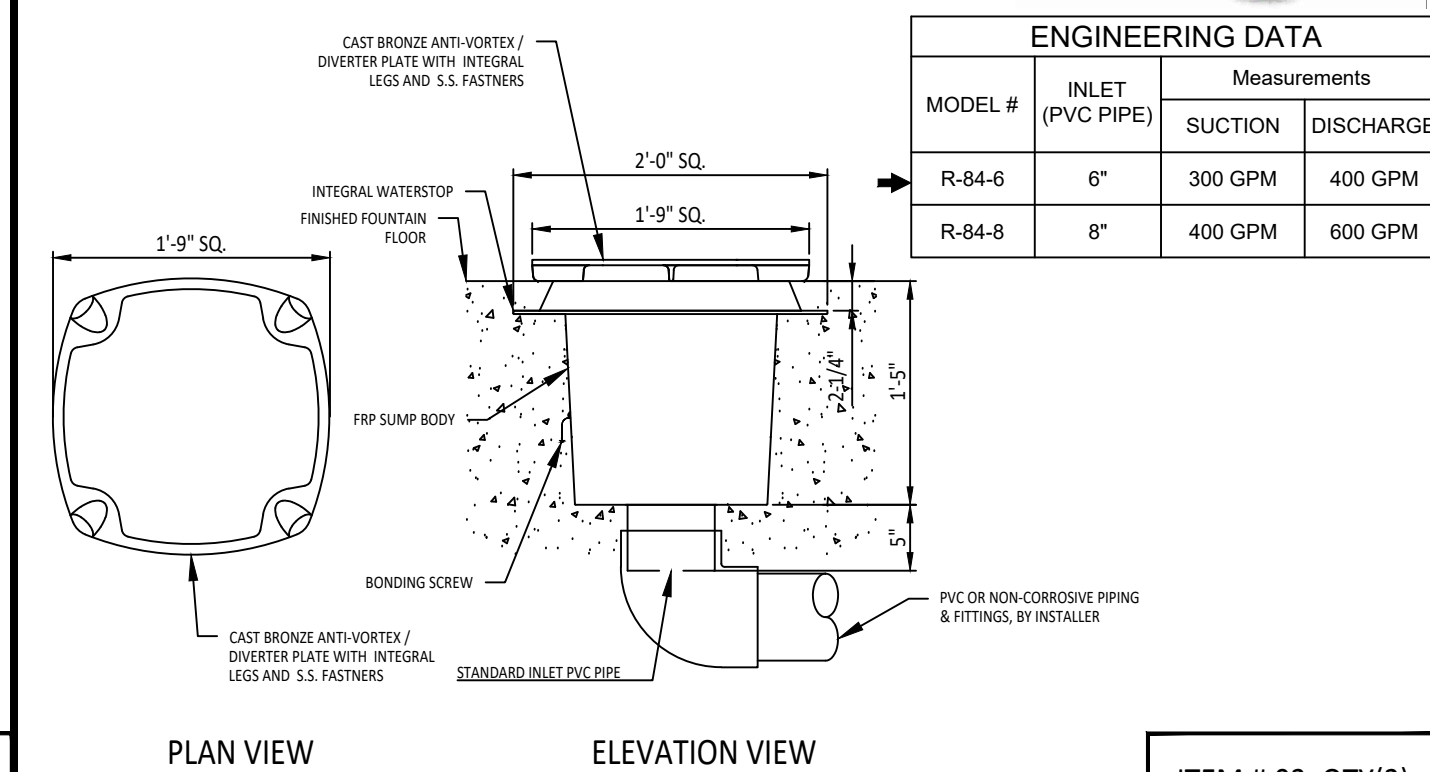


MODEL #	Measurements		
	"A"	"B"	"C"
DIV-PL-362U	3	6	2
DIV-PL-602U	6	6	2
DIV-PL-882U	8	8	2
DIV-PL-884U	8	8	4
DIV-PL-894U	8	9	4
DIV-PL-10784U	10	10	4
DIV-PL-12124U	12	12	4
DIV-PL-18184U	18	18	4
DIV-PL-24244U	24	24	4

ITEM # 02 QTY(4)

**R-84-6 ANTI-VORTEX PLATE & SUMP**

**PRODUCT SPECIFICATION:**  
R-84 Anti-Vortex/Overter Sump consists of a 21" square anti-vortex and diverter plate assembly. Sump is heavy-duty fiberglass reinforced polyester construction with black gelcoat interior finish, integral waterstop, sealed PVC pipe connection. The diverter plate is cast bronze with integral lugs, stainless steel fasteners, and natural bronze finish.

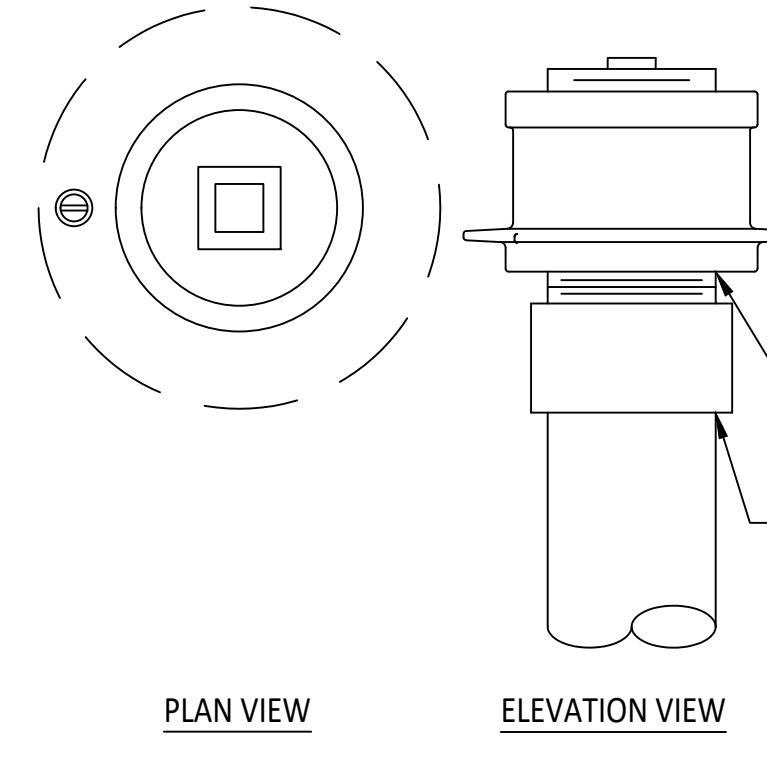


MODEL #	INLET (PVC PIPE)	Measurements	
		SUCTION	DISCHARGE
R-84-6	6"	300 GPM	400 GPM
R-84-8	8"	400 GPM	600 GPM

ITEM # 03 QTY(2)

**FFD-200 SERIES 2" DRAIN**

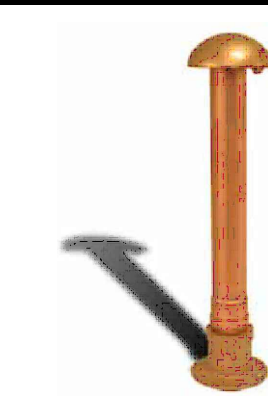
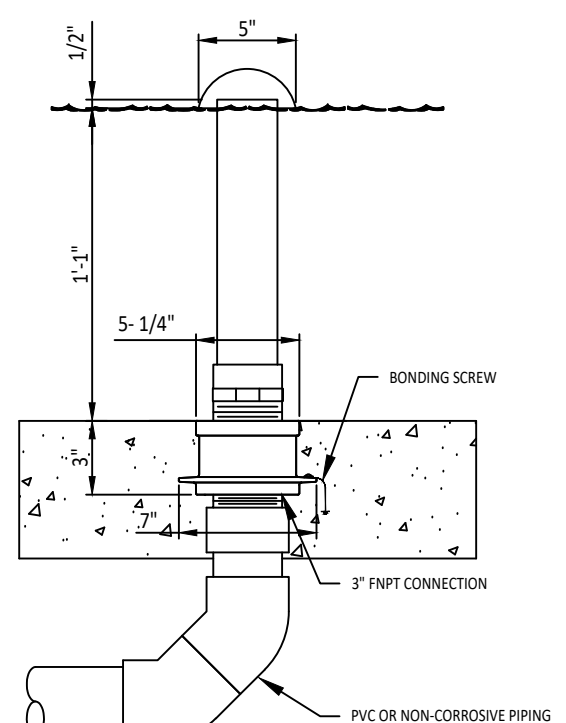
**PRODUCT SPECIFICATION:**  
FFD-200 Series 2" Drain: The floor drain with plug shall consist of a waterstop coupling and a removable threaded drain plug. Construction shall be of cast bronze and brass with natural finish.



ITEM # 04 QTY(1)

**FSD-300 OVERFLOW STANDPIPE**

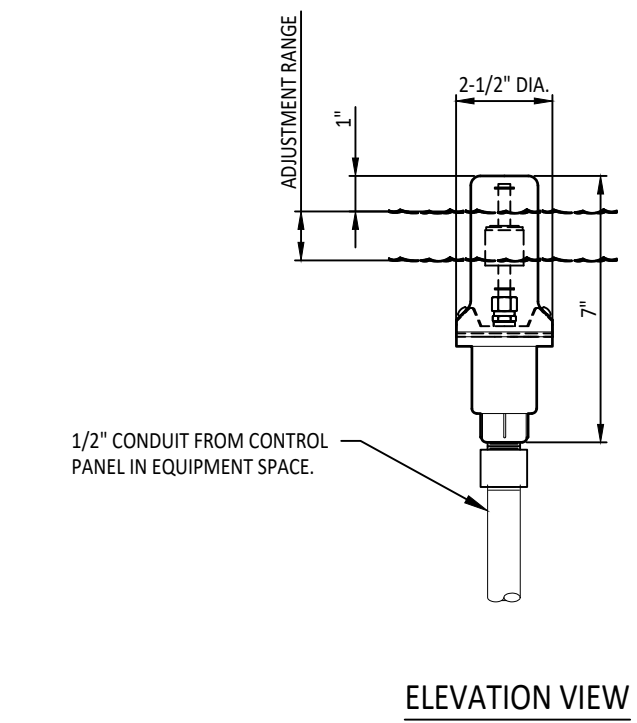
**PRODUCT SPECIFICATION:**  
FSD-Series 3" Overflow Standpipe Drain consists of an integral waterstop flange with female threaded connection, ground screw and a removable standpipe drain with secured dome. Construction is of cast bronze with copper standpipe and cast bronze dome in natural finish.



ITEM # 05 QTY(1)

**CWL-002C WATER LEVEL CONTROL SENSOR**

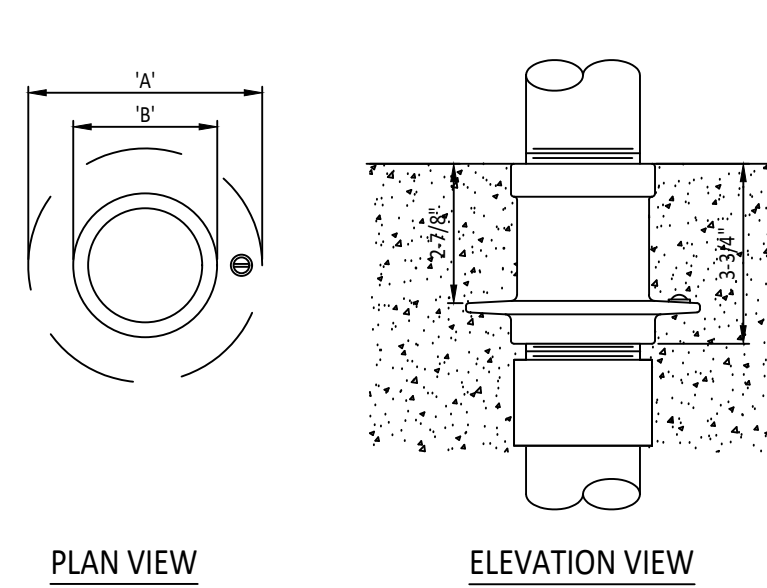
**PRODUCT SPECIFICATION:**  
Control Mount Water Level Sensor, cast bronze housing base with span brass cover, dual function water level sensor with 100' feet of integral cable, 3/4" adjustability range, 1/2" female threaded conduit connection.



ITEM # 06 QTY(1)

**FWS-050 WATERSTOP FITTING**

**PRODUCT SPECIFICATION:**  
FWS-Series Waterstop Fitting consists of a coupling with an integral waterstop plate, bonding lug and female threaded connections. Construction shall be of cast bronze, copper and brass with a natural finish.

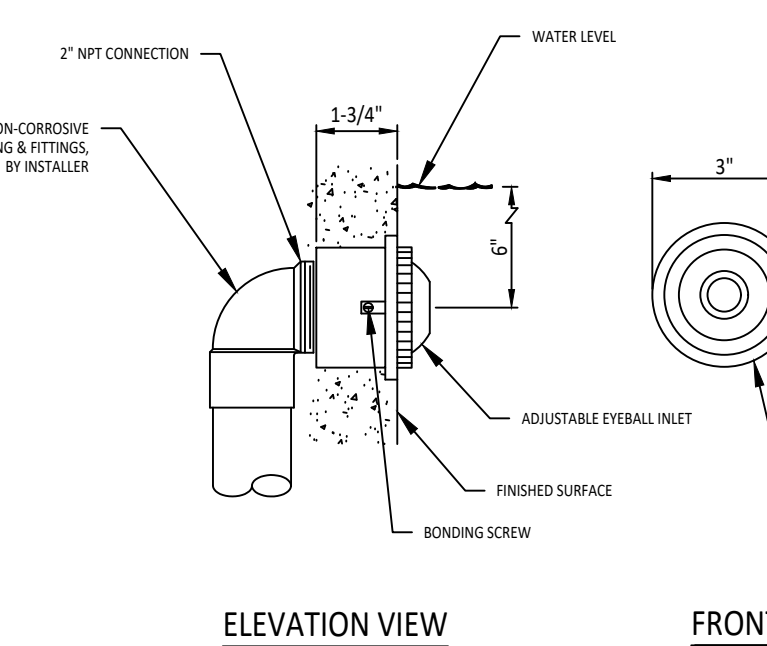


MODEL #	FNPT	Measurements	
		"A"	"B"
FWS-050	1/2"	3-1/2"	1-3/4"
FWS-075	3/4"	3-1/2"	1-3/4"
FWS-100	1"	5"	1-3/4"
FWS-125	1-1/4"	5"	3"
FWS-150	1-1/2"	5"	3"
FWS-200	2"	5"	3"
FWS-300	3"	7"	5-1/4"
FWS-400	4"	7"	5-1/4"

ITEM # 07 QTY(1)

**ST-EF-200 ADJUSTABLE EYEBALL INLET FITTING**

**PRODUCT SPECIFICATION:**  
Fountain People R-858 Adjustable Eyeball Inlet Fitting: constructed of cast machined bronze and brass with a natural finish. 2" FNPT connection with 3/8" orifice size.

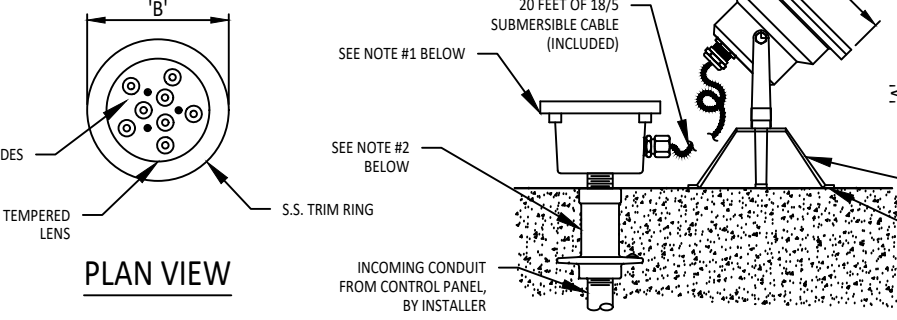


MODEL #	FNPT	Flow Rate	
		MINIMUM	MAXIMUM
ST-EF-200	2"	10 GPM	30 GPM

ITEM # 08 QTY(2)

**FXPRO-LED-FS-32 LIGHT FIXTURE**

**PRODUCT SPECIFICATION:**  
LED Underwater Light Fixture with on-board DMX driver. Fixture is 5" diameter x 7.5" height with the adjustable stainless steel (304) assembly, 4 x 1" RGBW diodes, UL listed, type 316L stainless steel construction, tempered glass lens, and 19 feet of 18/5 cable, 24VDC, 0.6 diodes x 4 Watt, 32 Watts.



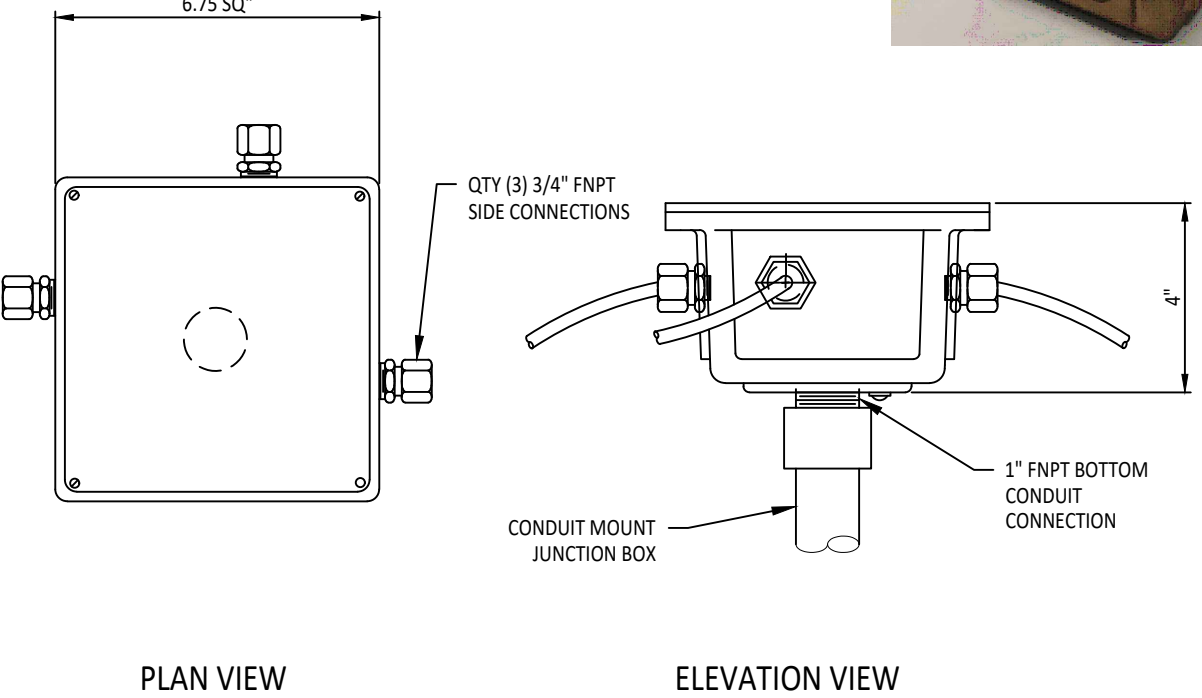
Feature Dimensions	Varies (see chart)
Submersible Rating	6.5 feet
Cable Voltage	24VDC
Cable Length	20 feet-18.5'
Power Usage	32 watts
Dimming Capability	Yes
Color	RGBW Diodes
LED Diode Quantity	4 (14 watts each)
Lens Material	Tempered Glass

CATALOG #	DMX	2-DIM	8	16	32
FXPRO-LED-FS-32	2-3"	5-5"	8	16	32

ITEM # 09 QTY(7)

**JBB-3-100 JUNCTION BOX**

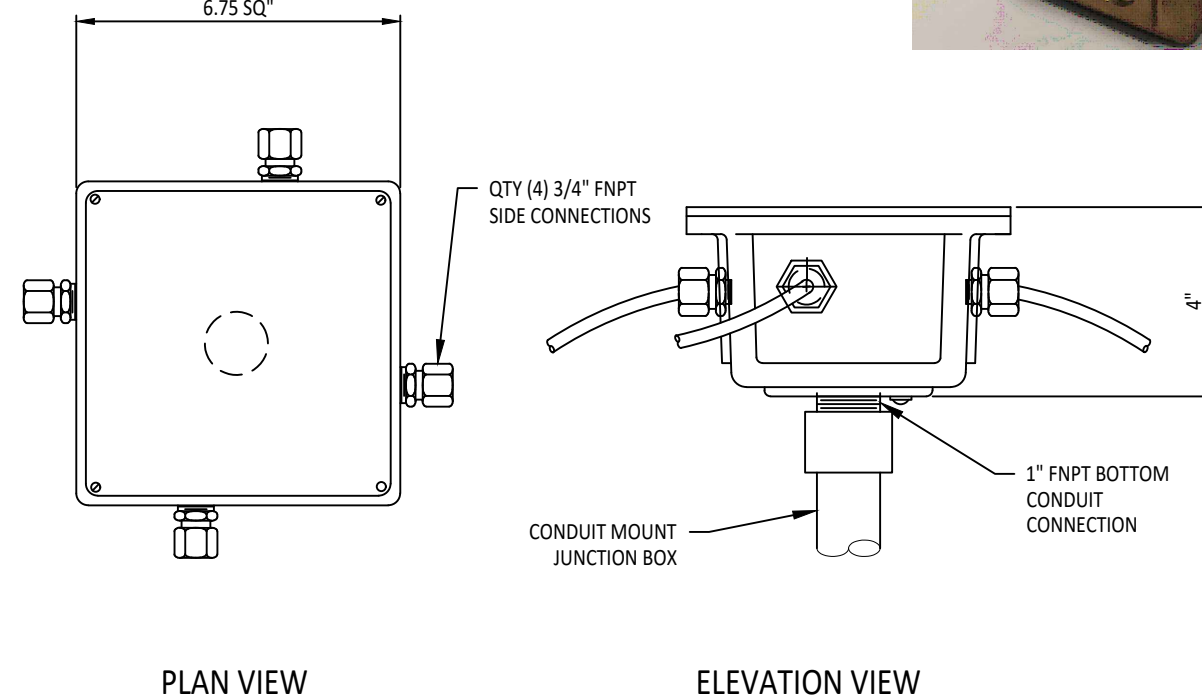
**PRODUCT SPECIFICATION:**  
Junction Box, conduit mount, UL listed, underwater cast bronze junction box with internal grounding lug, neoprene gasket, 1" FNPT bottom power connection, and four (4) 3/4" FNPT side connections for lights. Includes brass cord seals with proper grommet sizing based on light cord requirement. Plugs will be furnished for any unused/open connections.



ITEM # 10 QTY(1)

**JBB-4-100 JUNCTION BOX**

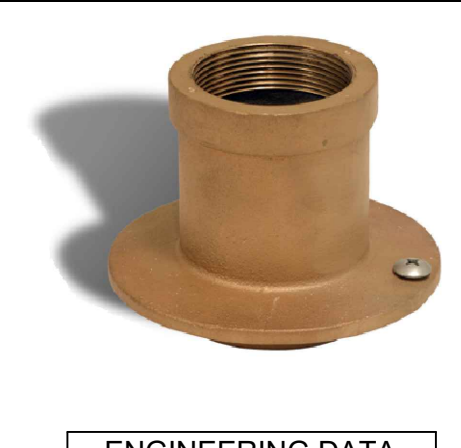
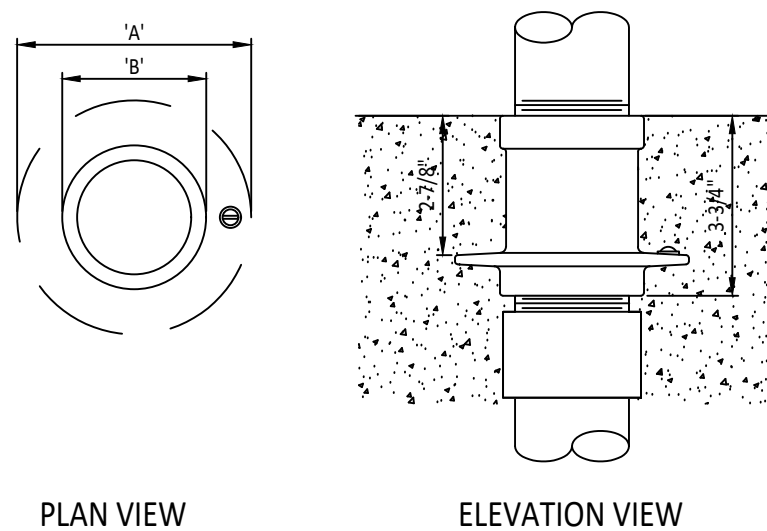
**PRODUCT SPECIFICATION:**  
Junction Box, conduit mount, UL listed, underwater cast bronze junction box with internal grounding lug, neoprene gasket, 1" FNPT bottom power connection, and four (4) 3/4" FNPT side connections for lights. Includes brass cord seals with proper grommet sizing based on light cord requirement. Plugs will be furnished for any unused/open connections.



ITEM # 11 QTY(1)

**FWS-100 WATERSTOP FITTING**

**PRODUCT SPECIFICATION:**  
FWS-Series Waterstop Fitting consists of a coupling with an integral waterstop plate, bonding lug and female threaded connections. Construction shall be of cast bronze, copper and brass with a natural finish.



MODEL #	FNPT	Measurements	
		"A"	"B"
FWS-050	1/2"	3-1/2"	1-3/4"
FWS-075	3/4"	3-1/2"	1-3/4"
FWS-100	1"	5"	1-3/4"
FWS-125	1-1/4"	5"	3"
FWS-150	1-1/2"	5"	3"
FWS-200	2"	5"	3"
FWS-300	3"	7"	5-1/4"
FWS-400	4"	7"	5-1/4"

ITEM # 12 QTY(2)

**PC-8882 POTTING COMPOUND**

**PRODUCT SPECIFICATION:**  
PC-8882 Potting Compound is made for encapsulating wire connections within electrical junction boxes. Potting compound adheres well and pulls away cleanly for fast splice re-entry. Prevents moisture in junction boxes.

POTTING COMPOUND	OZ.	IN <sup>3</sup>
PC-8882-C	2-PT	12.3
PC-8882-D	2-PT	21.3

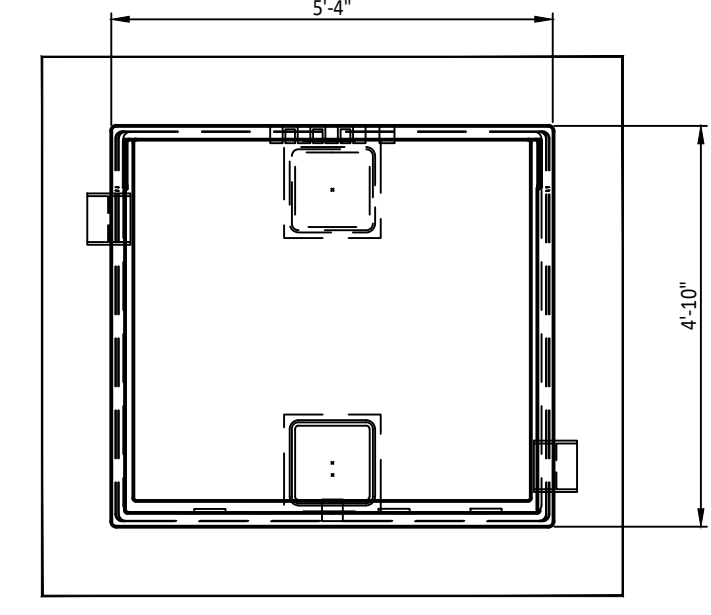


Potting Compound: Two-part, non-urethane, re-entrable encapsulant compound. Meets NEC article 680 as an approved potting compound.

ITEM # 13 QTY(4)

**DBVB-P23847 DIRECT BURIAL VAULT**

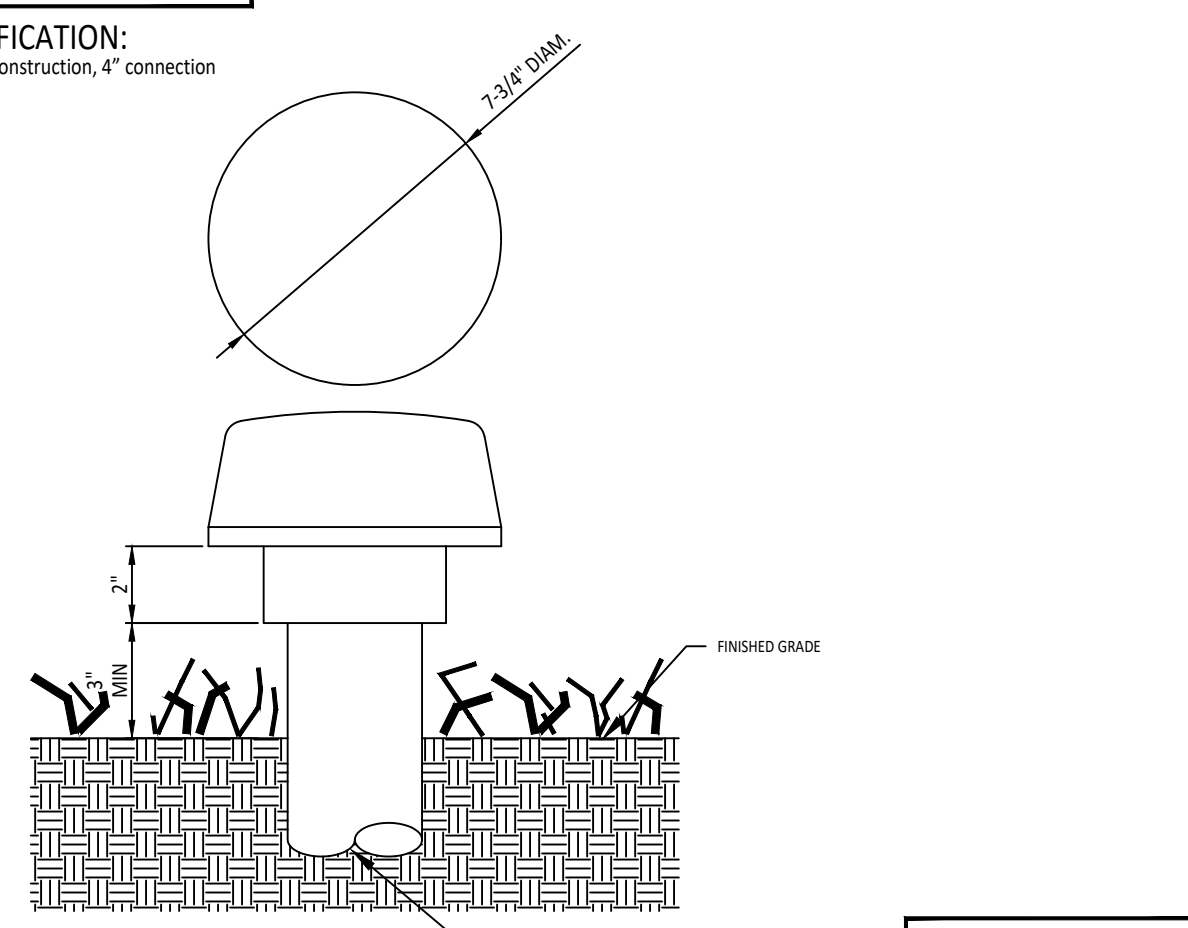
**PRODUCT SPECIFICATION:**  
Direct Burial Vault: Fully pre-assembled, tested heavy duty FRP vault (5'-4" x 4'-10" x 5'-3" deep) with gel-coat interior and exterior, furnished with 3" aluminum plate reinforced life-size hardscape access hatch with compression spring operators for placement in hardscapes. The vault includes 7.5 HP thermodynamic self-priming pump with integral basket strainer, sand filter (or cartridge filter), erosion style chemical feeder, suction & discharge valve assemblies, water level float mounted with 1/2" solenoid valve, 1/2 HP pump with 2" drain connection, 4" connection forced air ventilation system, and a UL listed electrical control panel in HDMA enclosure with motor starter, LED power supplies, included UP light controller, water level control relay, 10/7 digital timeclock, NEMA switches, and a main disconnect switch. Unit is factory engineered, assembled and tested prior to shipment. Power requirement: TBD.



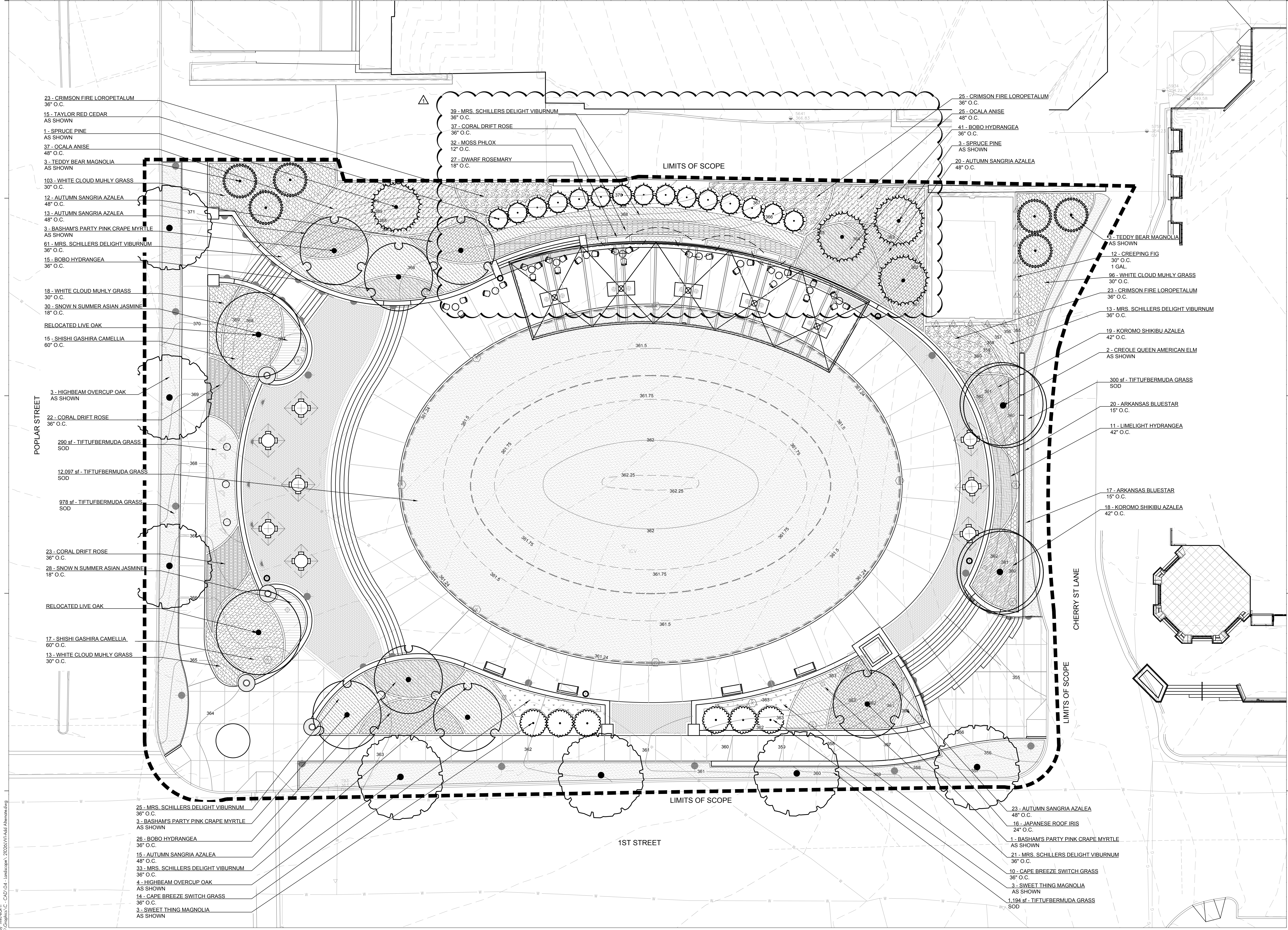
ITEM # 14 QTY(1)

**VCA-400-P VENT CAP**

**PRODUCT SPECIFICATION:**  
Vent Cap Assembly, PVC construction, 4" connection



ITEM # 15 QTY(2)



- 23 - CRIMSON FIRE LOROPETALUM 36" O.C.
- 15 - TAYLOR RED CEDAR AS SHOWN
- 1 - SPRUCE PINE AS SHOWN
- 37 - Ocala ANISE 48" O.C.
- 3 - TEDDY BEAR MAGNOLIA AS SHOWN
- 103 - WHITE CLOUD MUHLY GRASS 30" O.C.
- 12 - AUTUMN SANGRIA AZALEA 48" O.C.
- 13 - AUTUMN SANGRIA AZALEA 48" O.C.
- 3 - BASHAM'S PARTY PINK CRAPE MYRTLE AS SHOWN
- 61 - MRS. SCHILLERS DELIGHT VIBURNUM 36" O.C.
- 15 - BOBO HYDRANGEA 36" O.C.
- 18 - WHITE CLOUD MUHLY GRASS 30" O.C.
- 30 - SNOW N SUMMER ASIAN JASMINE 18" O.C.
- RELOCATED LIVE OAK
- 15 - SHISHI GASHIRA CAMELLIA 60" O.C.
- 3 - HIGHBEAM OVERCUP OAK AS SHOWN
- 22 - CORAL DRIFT ROSE 36" O.C.
- 290 sf - TIFTUFBERMUDA GRASS SOD
- 12,097 sf - TIFTUFBERMUDA GRASS SOD
- 978 sf - TIFTUFBERMUDA GRASS SOD
- 23 - CORAL DRIFT ROSE 36" O.C.
- 28 - SNOW N SUMMER ASIAN JASMINE 18" O.C.
- RELOCATED LIVE OAK
- 17 - SHISHI GASHIRA CAMELLIA 60" O.C.
- 13 - WHITE CLOUD MUHLY GRASS 30" O.C.

- 39 - MRS. SCHILLERS DELIGHT VIBURNUM 36" O.C.
- 37 - CORAL DRIFT ROSE 36" O.C.
- 32 - MOSS PHLOX 12" O.C.
- 27 - DWARF ROSEMARY 18" O.C.

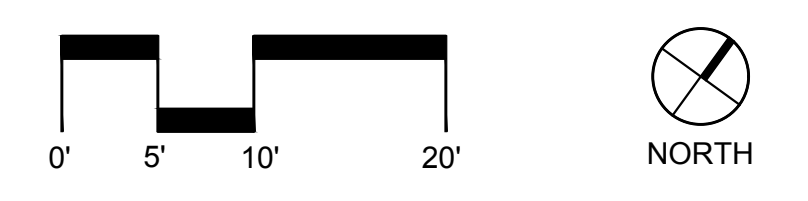
- 25 - CRIMSON FIRE LOROPETALUM 36" O.C.
- 25 - Ocala ANISE 48" O.C.
- 41 - BOBO HYDRANGEA 36" O.C.
- 3 - SPRUCE PINE AS SHOWN
- 20 - AUTUMN SANGRIA AZALEA 48" O.C.

- 3 - TEDDY BEAR MAGNOLIA AS SHOWN
- 12 - CREEPING FIG 30" O.C. 1 GAL.
- 96 - WHITE CLOUD MUHLY GRASS 30" O.C.
- 23 - CRIMSON FIRE LOROPETALUM 36" O.C.
- 13 - MRS. SCHILLERS DELIGHT VIBURNUM 36" O.C.
- 19 - KOROMO SHIKIBU AZALEA 42" O.C.
- 2 - CREOLE QUEEN AMERICAN ELM AS SHOWN
- 300 sf - TIFTUFBERMUDA GRASS SOD
- 20 - ARKANSAS BLUESTAR 15" O.C.
- 11 - LIMELIGHT HYDRANGEA 42" O.C.
- 17 - ARKANSAS BLUESTAR 15" O.C.
- 18 - KOROMO SHIKIBU AZALEA 42" O.C.

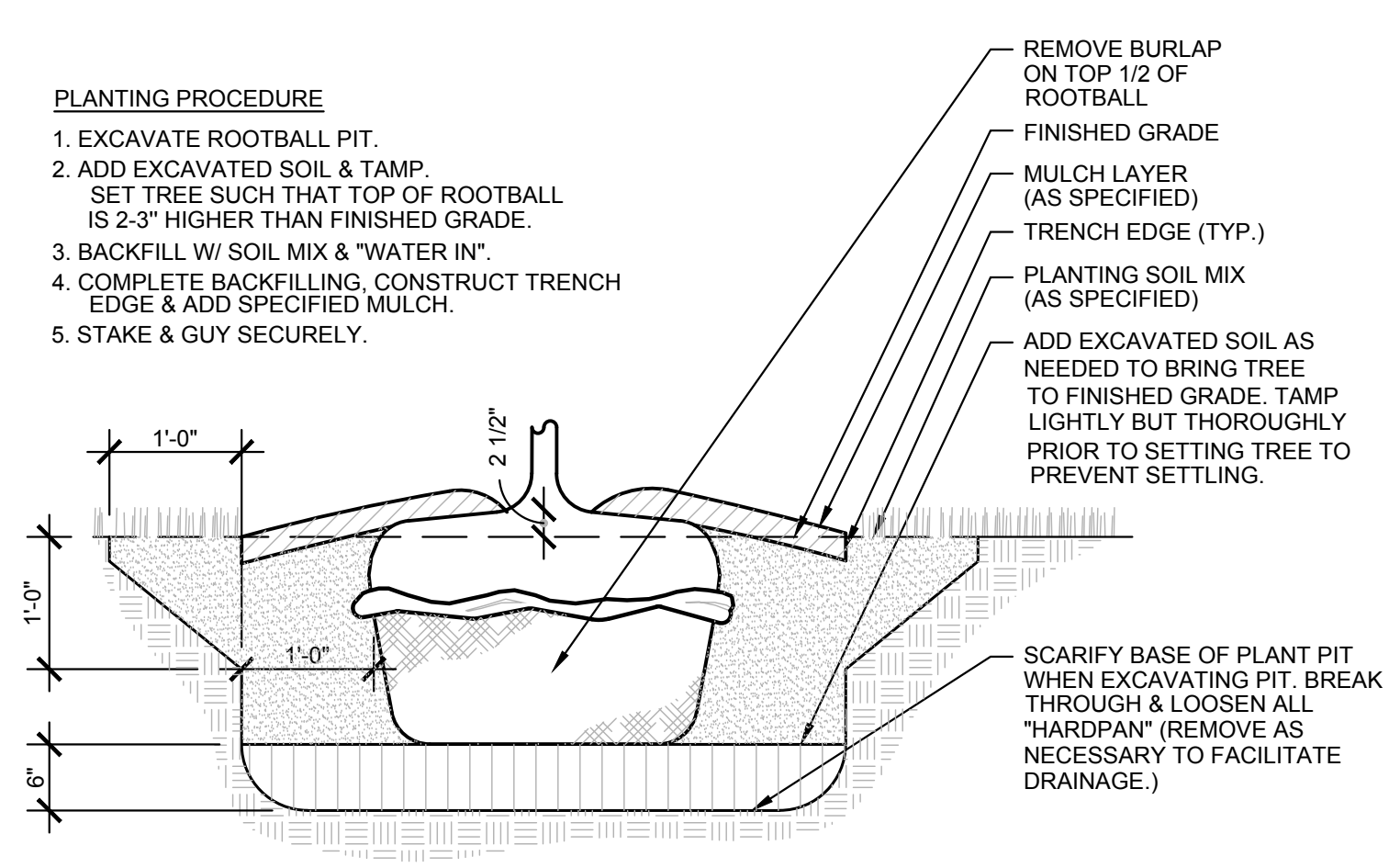
- 25 - MRS. SCHILLERS DELIGHT VIBURNUM 36" O.C.
- 3 - BASHAM'S PARTY PINK CRAPE MYRTLE AS SHOWN
- 26 - BOBO HYDRANGEA 36" O.C.
- 15 - AUTUMN SANGRIA AZALEA 48" O.C.
- 32 - MRS. SCHILLERS DELIGHT VIBURNUM 36" O.C.
- 4 - HIGHBEAM OVERCUP OAK AS SHOWN
- 14 - CAPE BREEZE SWITCH GRASS 36" O.C.
- 3 - SWEET THING MAGNOLIA AS SHOWN

- 23 - AUTUMN SANGRIA AZALEA 48" O.C.
- 16 - JAPANESE ROOF IRIS 24" O.C.
- 1 - BASHAM'S PARTY PINK CRAPE MYRTLE AS SHOWN
- 21 - MRS. SCHILLERS DELIGHT VIBURNUM 36" O.C.
- 10 - CAPE BREEZE SWITCH GRASS 36" O.C.
- 3 - SWEET THING MAGNOLIA AS SHOWN
- 1,194 sf - TIFTUFBERMUDA GRASS SOD

**A LANDSCAPE PLAN**  
 LS-1 SCALE: 1:10



last modified on 04/08/24 by WNK/CHT  
 File located in S:\2020\2020\Graphics\CAD\04 - Landscapes\21026\1\Add Alternates.dwg



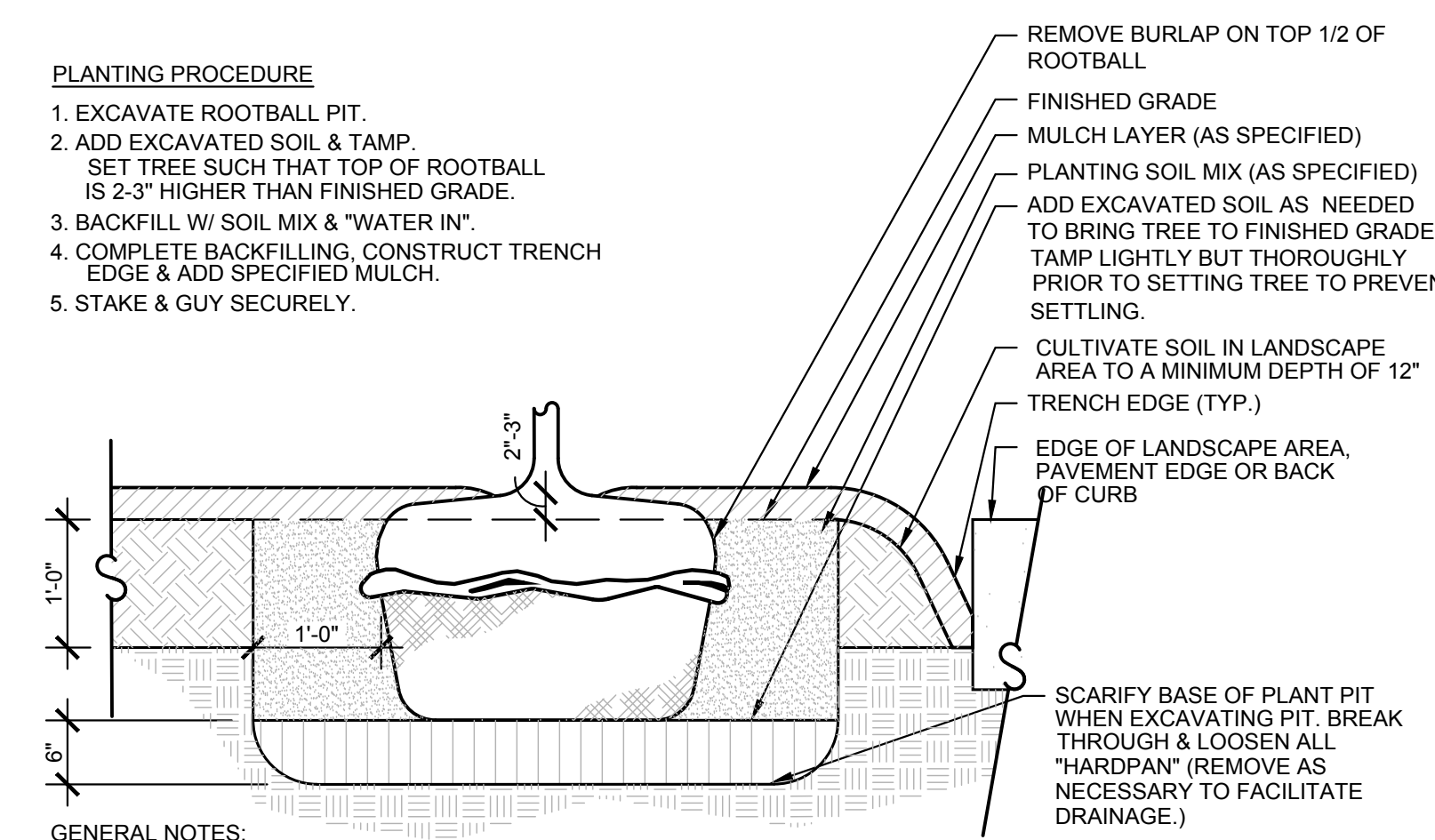
**PLANTING PROCEDURE**

- EXCAVATE ROOTBALL PIT.
- ADD EXCAVATED SOIL & TAMP. SET TREE SUCH THAT TOP OF ROOTBALL IS 2'-3" HIGHER THAN FINISHED GRADE.
- BACKFILL W/ SOIL MIX & "WATER IN".
- COMPLETE BACKFILLING. CONSTRUCT TRENCH EDGE & ADD SPECIFIED MULCH.
- STAKE & GUY SECURELY.

**GENERAL NOTES:**

- SEE SPECIFICATIONS FOR DRAINAGE TEST REQUIREMENTS PRIOR TO PLANTING. SEC. 02900.
- DO NOT ALLOW AIR POCKETS TO FORM WHEN BACKFILLING.
- IMMEDIATELY SOAK WITH WATER.
- DO NOT BREAK ROOTBALL.

**A TYPICAL TREE ROOTBALL PIT**  
LS-2 SCALE: 3/4"=1'-0"  
FILE NAME: LAF1001



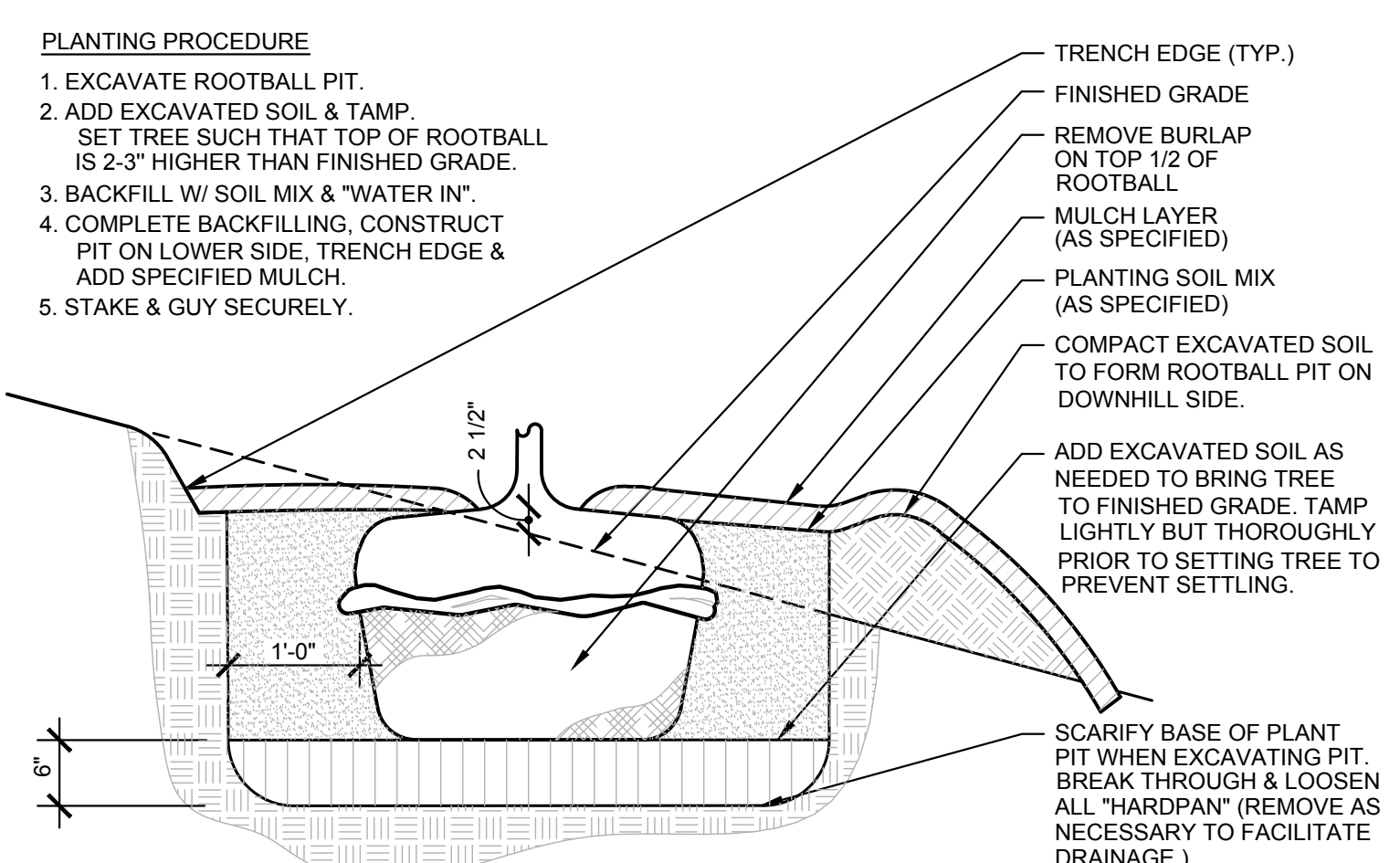
**PLANTING PROCEDURE**

- EXCAVATE ROOTBALL PIT.
- ADD EXCAVATED SOIL & TAMP. SET TREE SUCH THAT TOP OF ROOTBALL IS 2'-3" HIGHER THAN FINISHED GRADE.
- BACKFILL W/ SOIL MIX & "WATER IN".
- COMPLETE BACKFILLING. CONSTRUCT TRENCH EDGE & ADD SPECIFIED MULCH.
- STAKE & GUY SECURELY.

**GENERAL NOTES:**

- SEE SPECIFICATIONS FOR DRAINAGE TEST REQUIREMENTS PRIOR TO PLANTING. SEC. 02900.
- DO NOT ALLOW AIR POCKETS TO FORM WHEN BACKFILLING.
- IMMEDIATELY SOAK WITH WATER.
- DO NOT BREAK ROOTBALL.

**B TYPICAL TREE ROOTBALL PIT IN CULTIVATED AND MULCHED PLANTING AREA**  
LS-2 SCALE: 3/4"=1'-0"  
FILE NAME: LAF1002



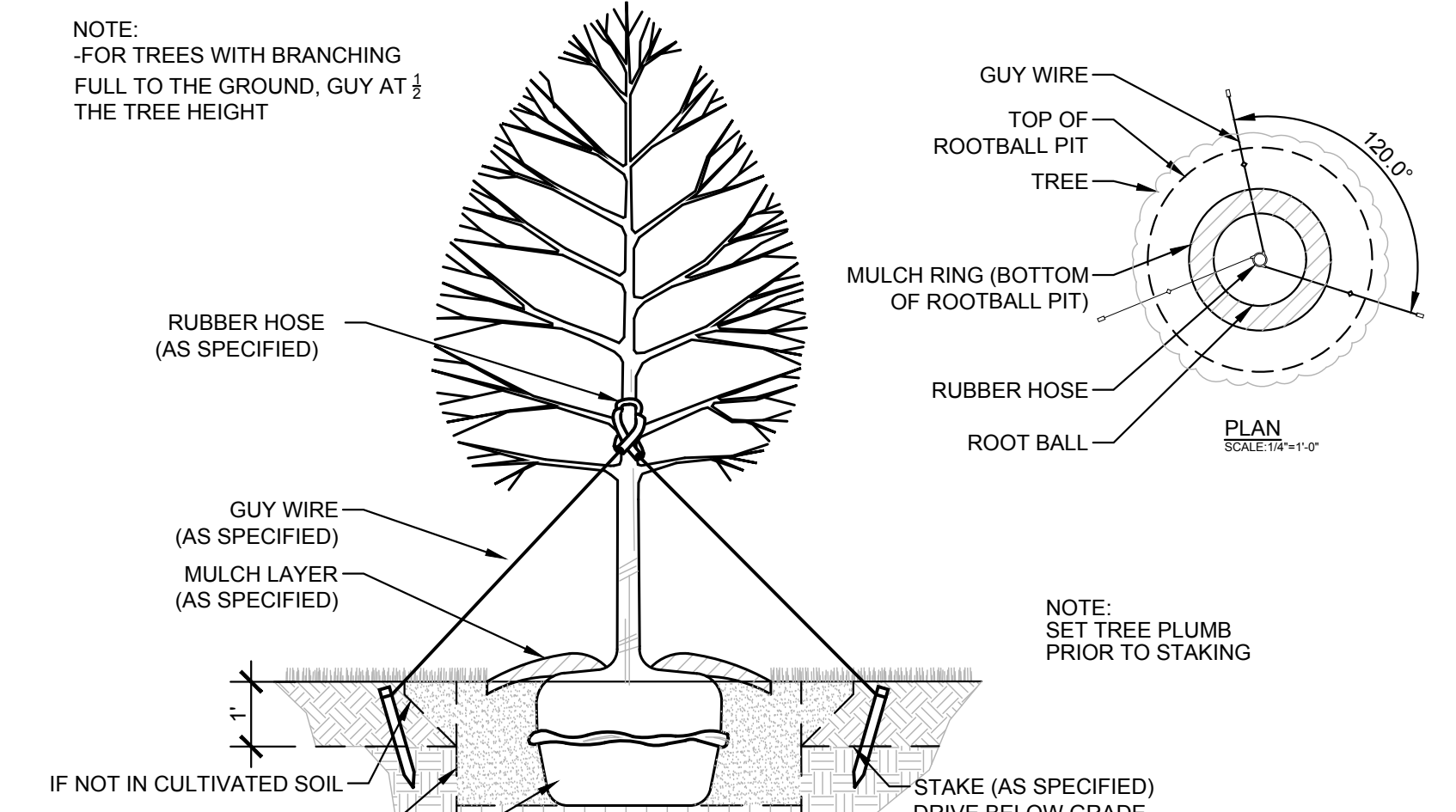
**PLANTING PROCEDURE**

- EXCAVATE ROOTBALL PIT.
- ADD EXCAVATED SOIL & TAMP. SET TREE SUCH THAT TOP OF ROOTBALL IS 2'-3" HIGHER THAN FINISHED GRADE.
- BACKFILL W/ SOIL MIX & "WATER IN".
- COMPLETE BACKFILLING. CONSTRUCT PIT ON LOWER SIDE, TRENCH EDGE & ADD SPECIFIED MULCH.
- STAKE & GUY SECURELY.

**GENERAL NOTES:**

- SEE SPECIFICATIONS FOR DRAINAGE TEST REQUIREMENTS PRIOR TO PLANTING. SEC. 02900.
- DO NOT ALLOW AIR POCKETS TO FORM WHEN BACKFILLING.
- IMMEDIATELY SOAK WITH WATER.
- DO NOT BREAK ROOTBALL.

**C TREE ROOTBALL PIT (ON SLOPE)**  
LS-2 SCALE: 3/4"=1'-0"  
FILE NAME: LAF1003



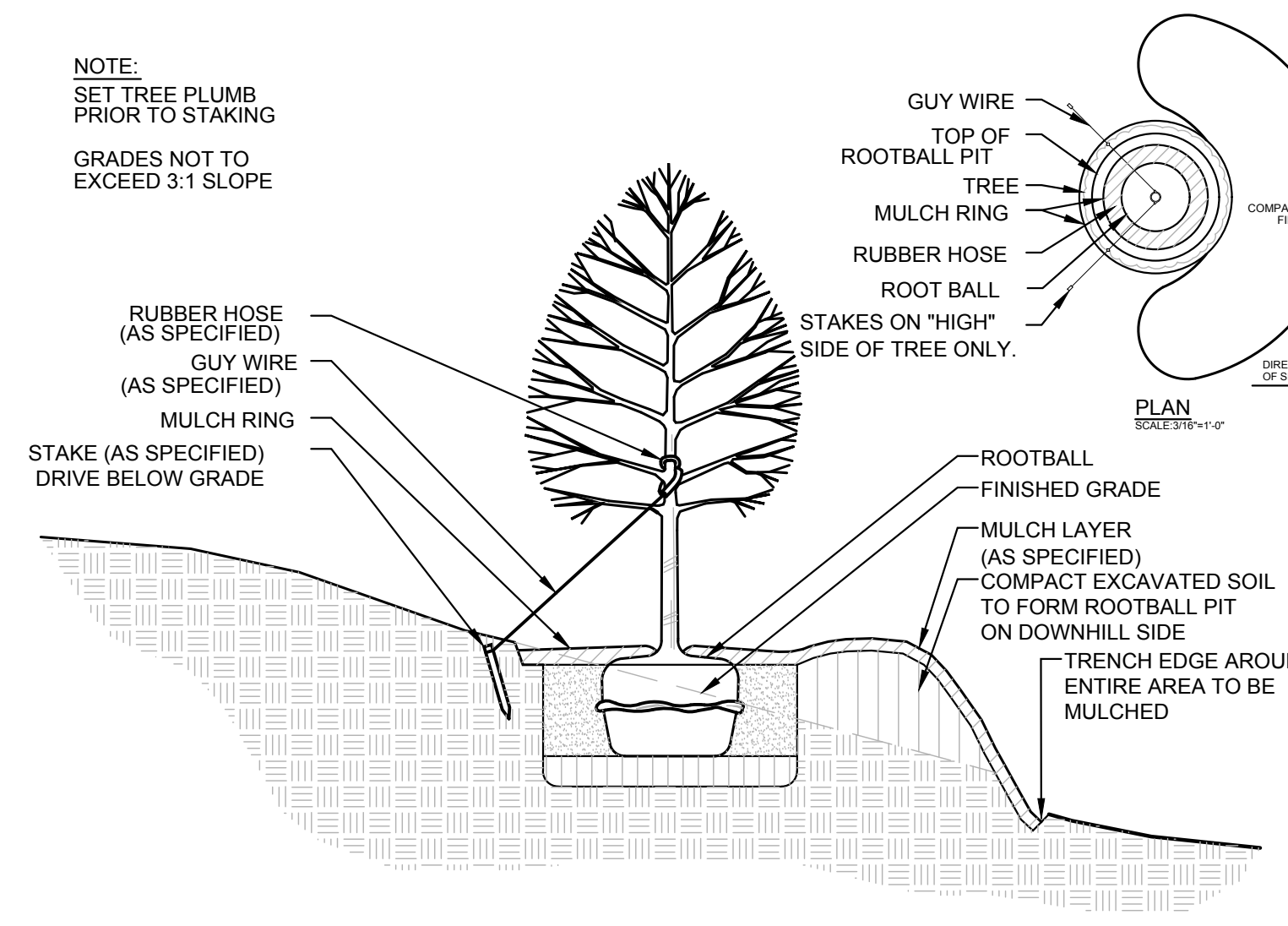
**NOTE:** FOR TREES WITH BRANCHING FULL TO THE GROUND, GUY AT 1/3 THE TREE HEIGHT

**NOTE:** SET TREE PLUMB PRIOR TO STAKING

**GENERAL NOTES:**

- SEE SPECIFICATIONS FOR DRAINAGE TEST REQUIREMENTS PRIOR TO PLANTING. SEC. 02900.
- DO NOT ALLOW AIR POCKETS TO FORM WHEN BACKFILLING.
- IMMEDIATELY SOAK WITH WATER.
- DO NOT BREAK ROOTBALL.

**D TREE STAKING AND GUYING**  
LS-2 SCALE: 1/2"=1'-0"  
FILE NAME: LAF1004

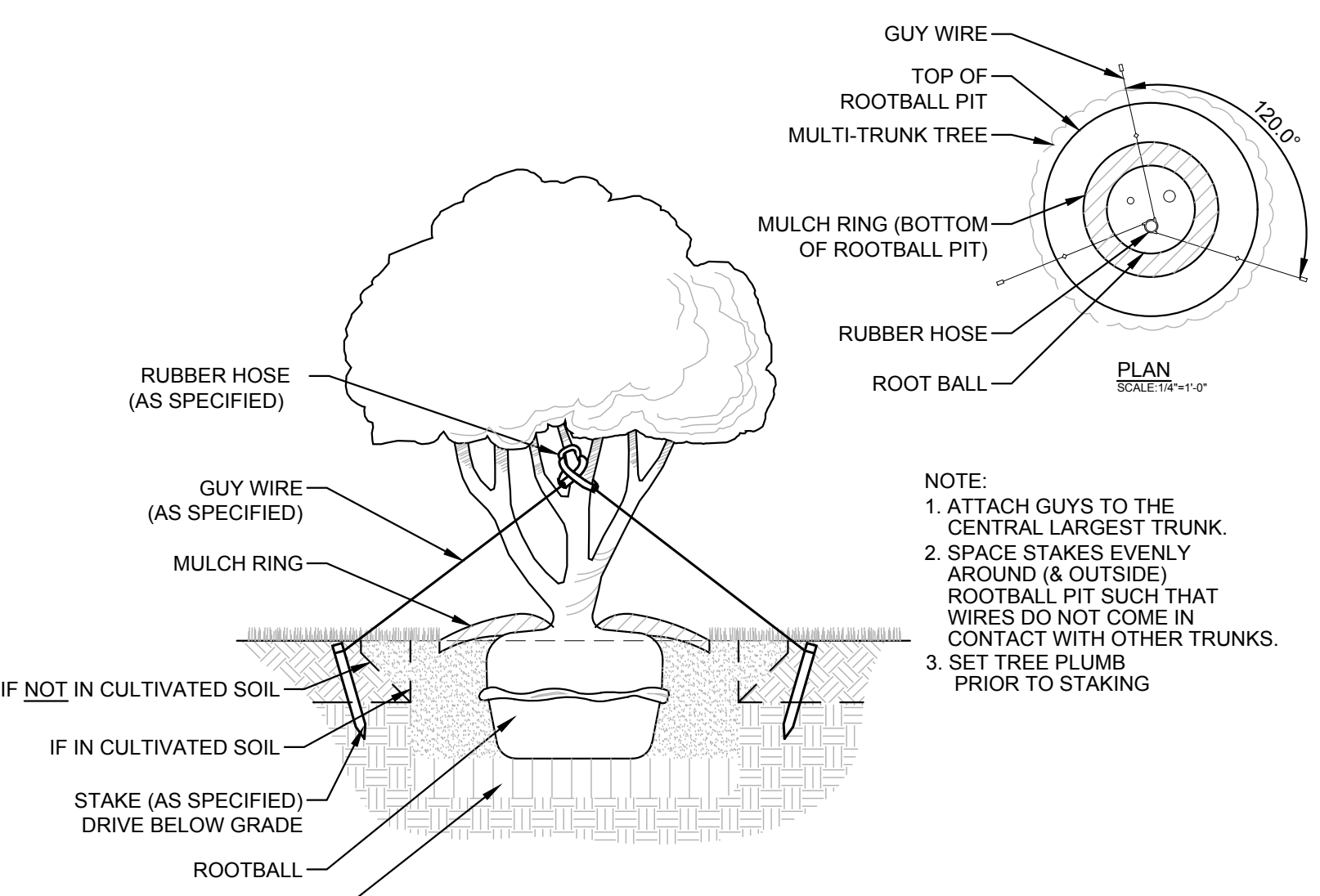


**NOTE:** SET TREE PLUMB PRIOR TO STAKING. GRADES NOT TO EXCEED 3:1 SLOPE

**GENERAL NOTES:**

- SEE SPECIFICATIONS FOR DRAINAGE TEST REQUIREMENTS PRIOR TO PLANTING. SEC. 02900.
- DO NOT ALLOW AIR POCKETS TO FORM WHEN BACKFILLING.
- IMMEDIATELY SOAK WITH WATER.
- DO NOT BREAK ROOTBALL.

**E TREE ON SLOPE STAKING AND GUYING**  
LS-2 SCALE: 3/8"=1'-0"  
FILE NAME: LAF1005



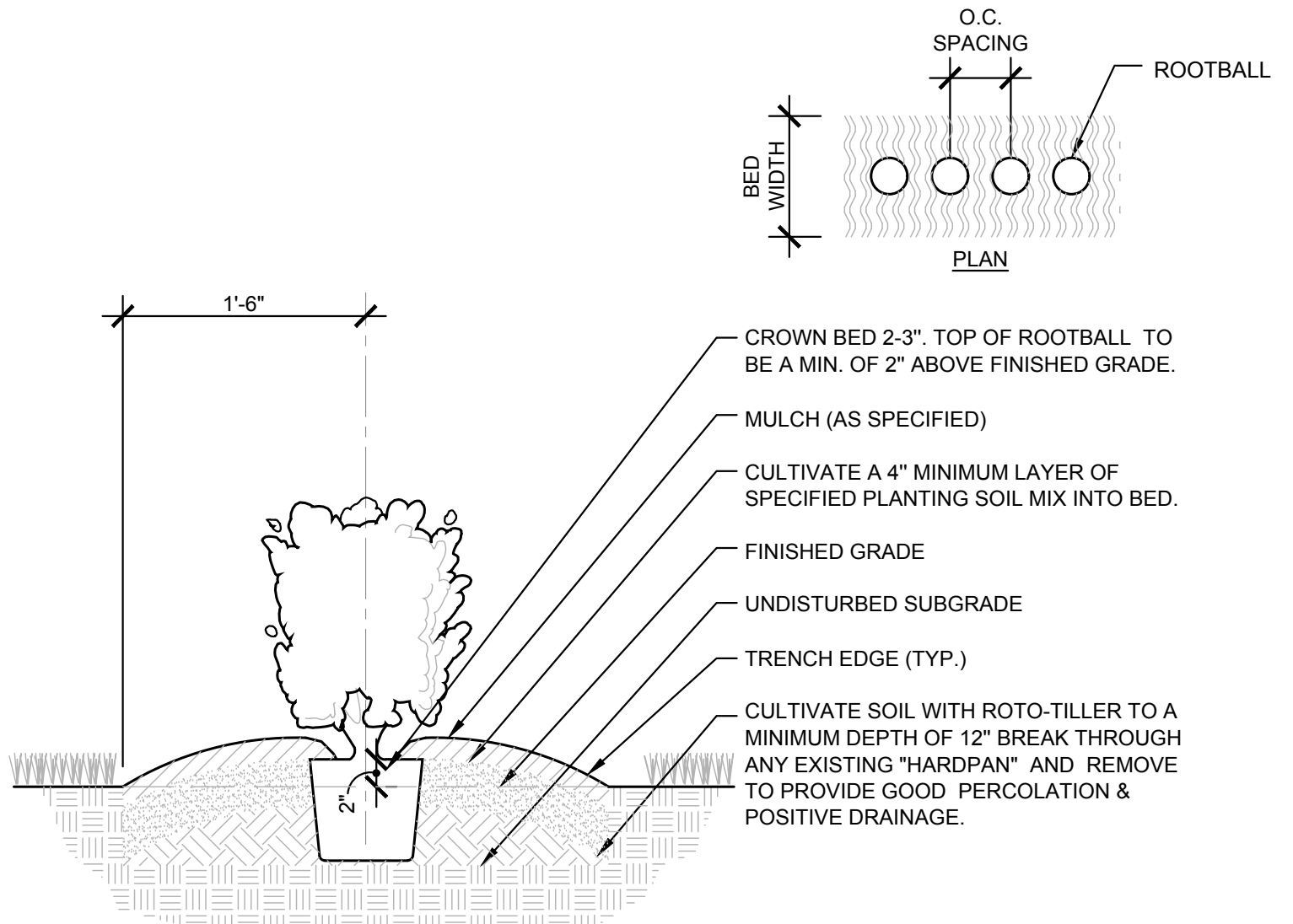
**NOTE:**

- ATTACH GUYS TO THE CENTRAL LARGEST TRUNK.
- SPACE STAKES EVENLY AROUND (& OUTSIDE) ROOTBALL PIT SUCH THAT WIRES DO NOT COME IN CONTACT WITH OTHER TRUNKS.
- SET TREE PLUMB PRIOR TO STAKING.

**GENERAL NOTES:**

- SEE SPECIFICATIONS FOR DRAINAGE TEST REQUIREMENTS PRIOR TO PLANTING. SEC. 02900.
- DO NOT ALLOW AIR POCKETS TO FORM WHEN BACKFILLING.
- IMMEDIATELY SOAK WITH WATER.
- DO NOT BREAK ROOTBALL.

**F MULTI-TRUNK TREE STAKING AND GUYING**  
LS-2 SCALE: 1/2"=1'-0"  
FILE NAME: LAF1006



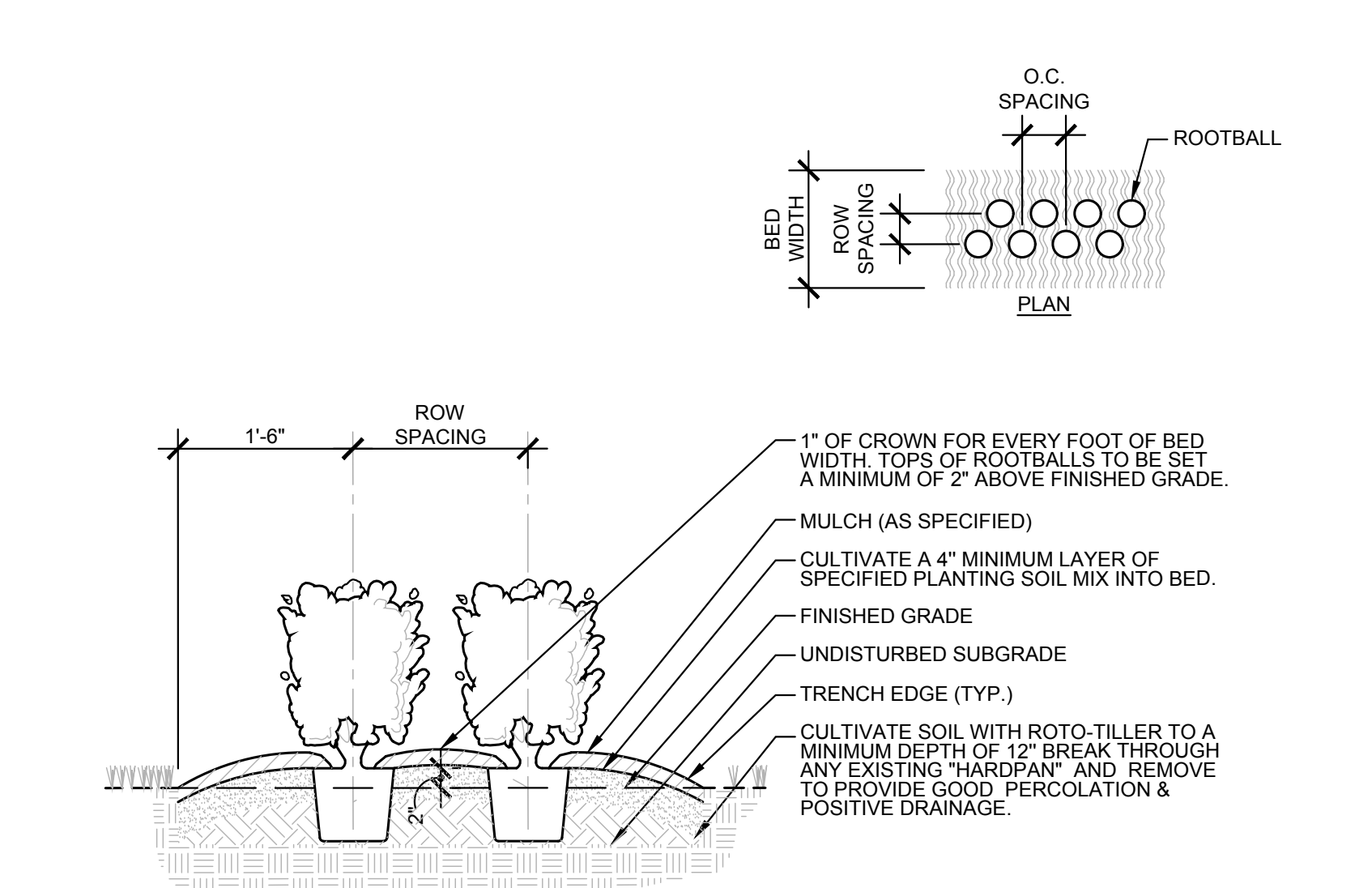
**PLANTING PROCEDURE**

- LAY OUT BED AND OUTLINE WITH TRENCH EDGE. PLACE SOIL FROM EDGE WITHIN BED.
- ROTO-TILL BED TO 12" DEPTH. SPREAD 4" MIN. LAYER OF PLANTING SOIL MIX OVER BED.
- INSTALL PLANTS & MULCH. WATER THOROUGHLY.

**GENERAL NOTES:**

- SEE SPECIFICATIONS FOR DRAINAGE TEST REQUIREMENTS PRIOR TO PLANTING. SEC. 02900.
- DO NOT ALLOW AIR POCKETS TO FORM WHEN BACKFILLING.
- IMMEDIATELY SOAK WITH WATER.
- DO NOT BREAK ROOTBALL.

**G HEDGE PLANTING (SINGLE ROW)**  
LS-2 SCALE: 1/4"=1'-0"  
FILE NAME: LAF1007

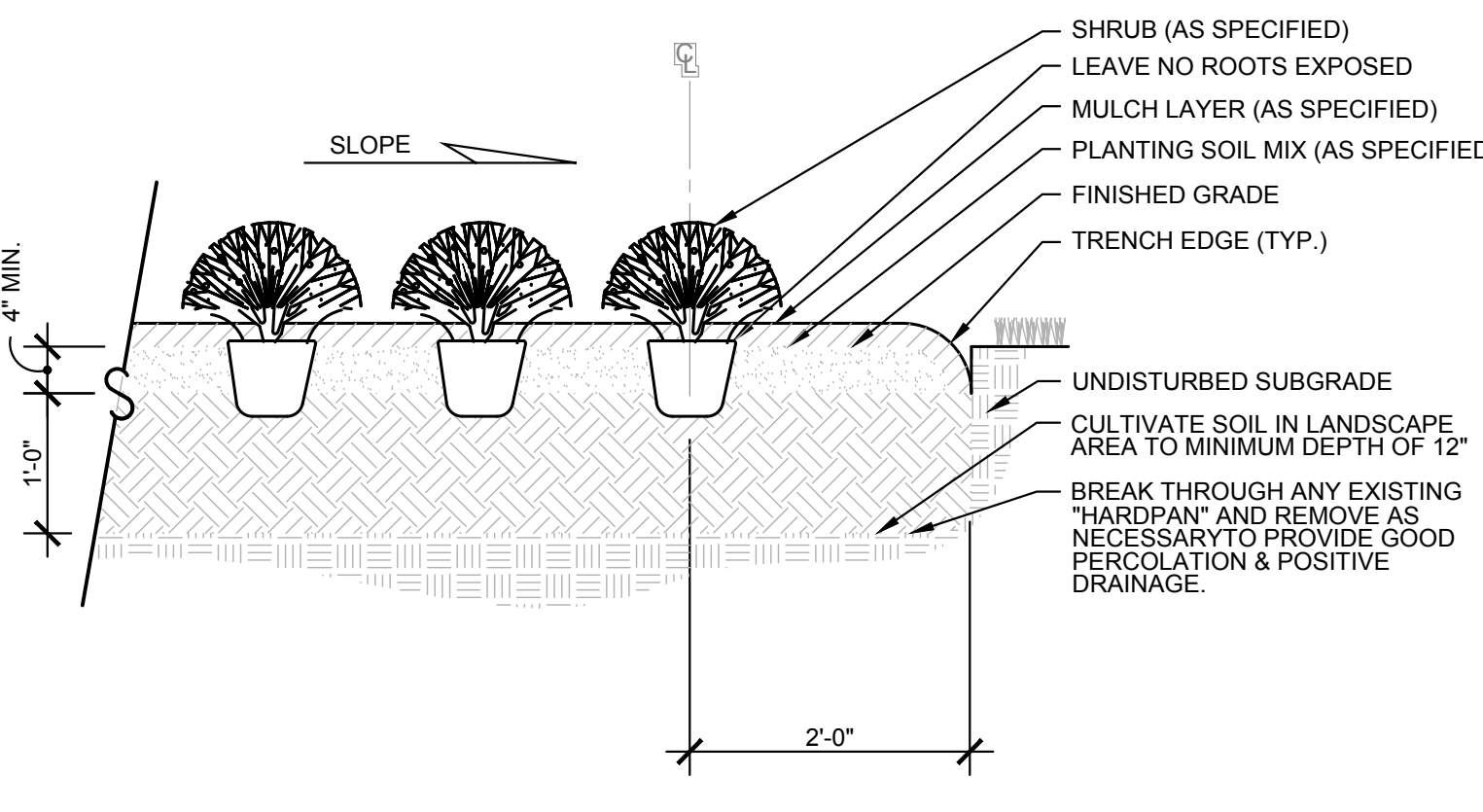


**NOTE:** MAXIMUM 2:1 SLOPE

**GENERAL NOTES:**

- SEE SPECIFICATIONS FOR DRAINAGE TEST REQUIREMENTS PRIOR TO PLANTING. SEC. 02900.
- DO NOT ALLOW AIR POCKETS TO FORM WHEN BACKFILLING.
- IMMEDIATELY SOAK WITH WATER.
- DO NOT BREAK ROOTBALL.

**H HEDGE PLANTING (DOUBLE ROW)**  
LS-2 SCALE: 3/4"=1'-0"  
FILE NAME: LAF1008



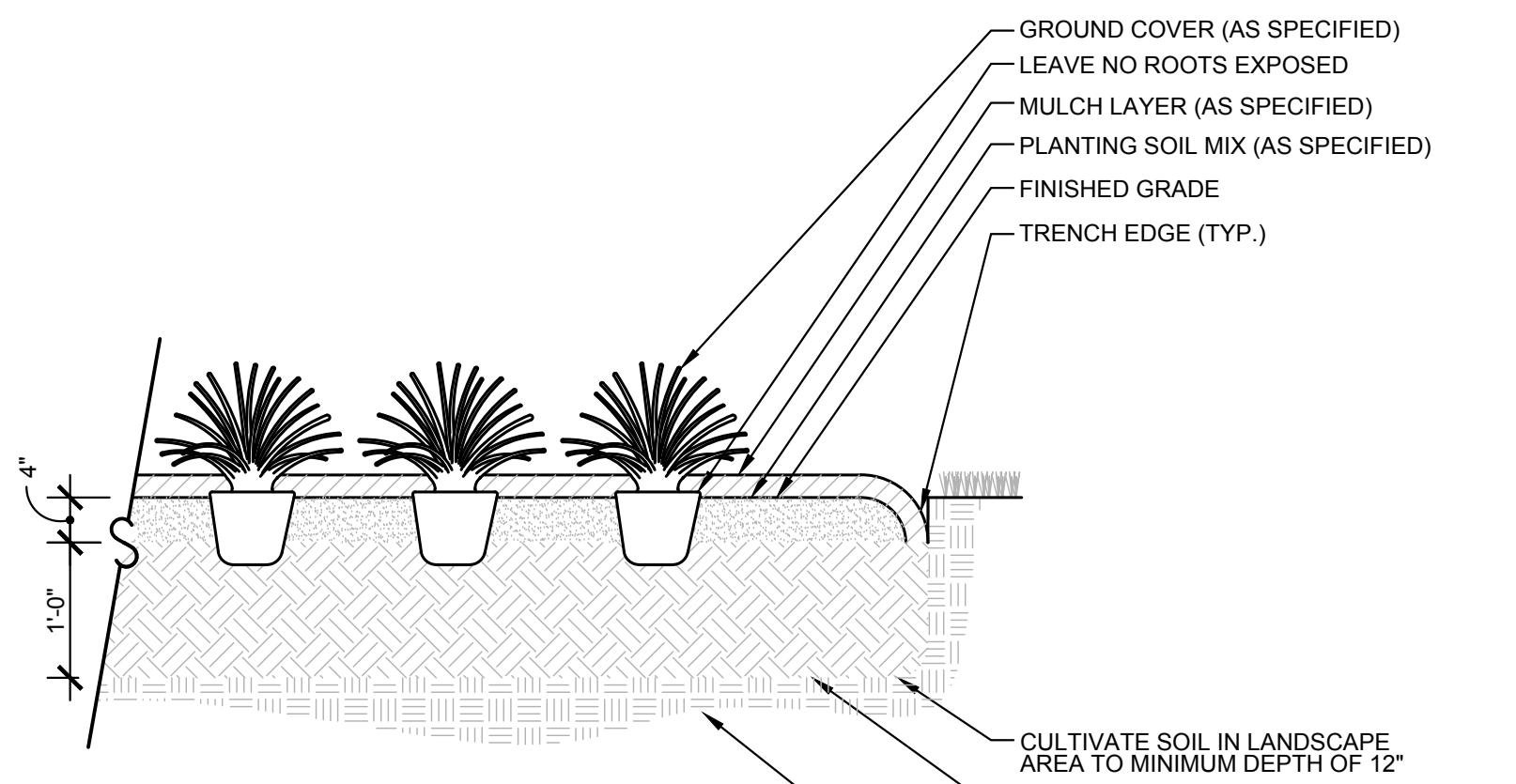
**PLANTING PROCEDURE**

- LAY OUT BED AND OUTLINE WITH TRENCH EDGE. PLACE SOIL FROM EDGE WITHIN BED.
- ROTO-TILL BED TO 12" DEPTH. SPREAD 4" MIN. LAYER OF PLANTING SOIL MIX OVER BED. ROTO-TILL SOIL MIX INTO TOP OF BED.
- INSTALL PLANTS & MULCH. WATER THOROUGHLY.

**GENERAL NOTES:**

- SEE SPECIFICATIONS FOR DRAINAGE TEST REQUIREMENTS PRIOR TO PLANTING. SEC. 02900.
- DO NOT ALLOW AIR POCKETS TO FORM WHEN BACKFILLING.
- IMMEDIATELY SOAK WITH WATER.
- DO NOT BREAK ROOTBALL.

**I SHRUB PLANTING**  
LS-2 SCALE: 3/4"=1'-0"  
FILE NAME: LAF1009



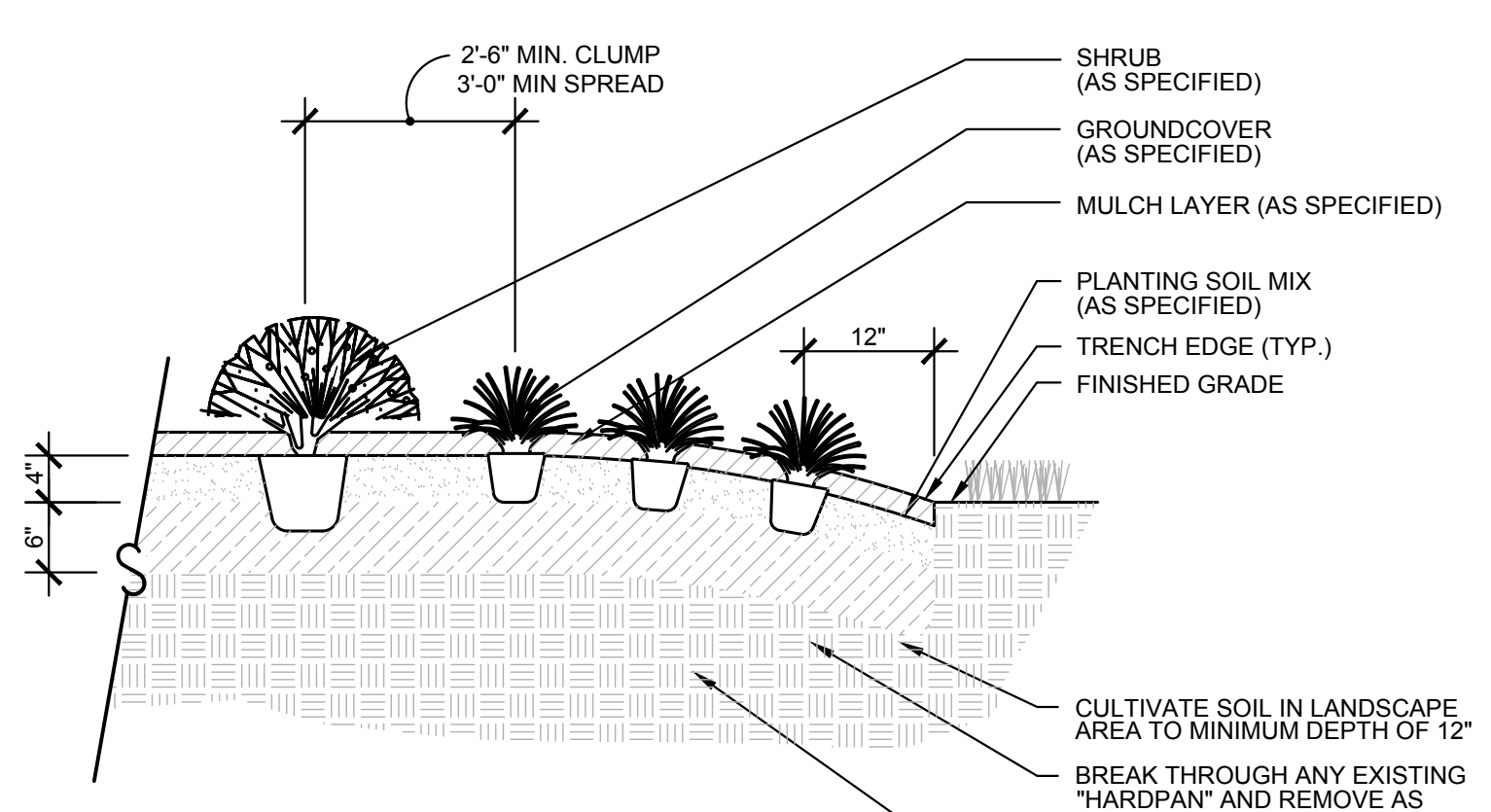
**PLANTING PROCEDURE**

- LAY OUT BED AND OUTLINE WITH TRENCH EDGE. PLACE SOIL FROM EDGE WITHIN BED. ROTO-TILL BED TO 12" DEPTH. SPREAD 3" MIN. LAYER OF PLANTING SOIL MIX OVER BED.
- ROTO-TILL SOIL MIX INTO TOP OF BED. INSTALL PLANTS & MULCH. WATER THOROUGHLY.

**GENERAL NOTES:**

- SEE SPECIFICATIONS FOR DRAINAGE TEST REQUIREMENTS PRIOR TO PLANTING. SEC. 02900.
- DO NOT ALLOW AIR POCKETS TO FORM WHEN BACKFILLING.
- IMMEDIATELY SOAK WITH WATER.
- DO NOT BREAK ROOTBALL.

**J GROUNDCOVER PLANTING**  
LS-2 SCALE: 3/4"=1'-0"  
FILE NAME: LAF1010



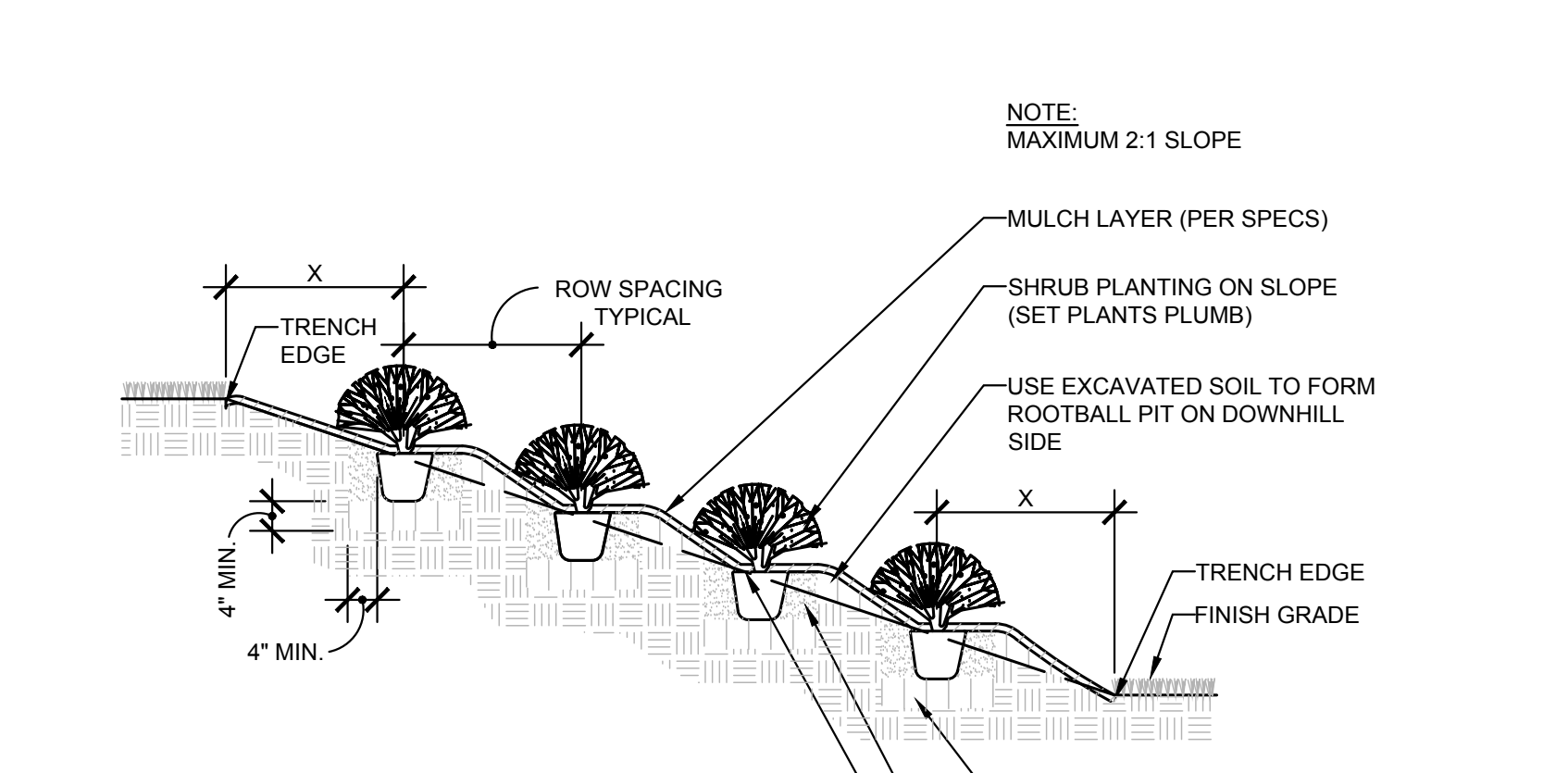
**PLANTING PROCEDURE**

- LAY OUT BED AND OUTLINE WITH TRENCH EDGE. PLACE SOIL FROM EDGE WITHIN BED. ROTO-TILL BED TO 12" DEPTH. SPREAD 3" MIN. LAYER OF PLANTING SOIL MIX OVER BED.
- ROTO-TILL SOIL MIX INTO TOP OF BED. INSTALL PLANTS & MULCH. WATER THOROUGHLY.

**GENERAL NOTES:**

- SEE SPECIFICATIONS FOR DRAINAGE TEST REQUIREMENTS PRIOR TO PLANTING. SEC. 02900.
- DO NOT ALLOW AIR POCKETS TO FORM WHEN BACKFILLING.
- IMMEDIATELY SOAK WITH WATER.
- DO NOT BREAK ROOTBALL.

**K GROUNDCOVER BED (FRONTING SHRUB BED)**  
LS-2 SCALE: 3/4"=1'-0"  
FILE NAME: LAF1011

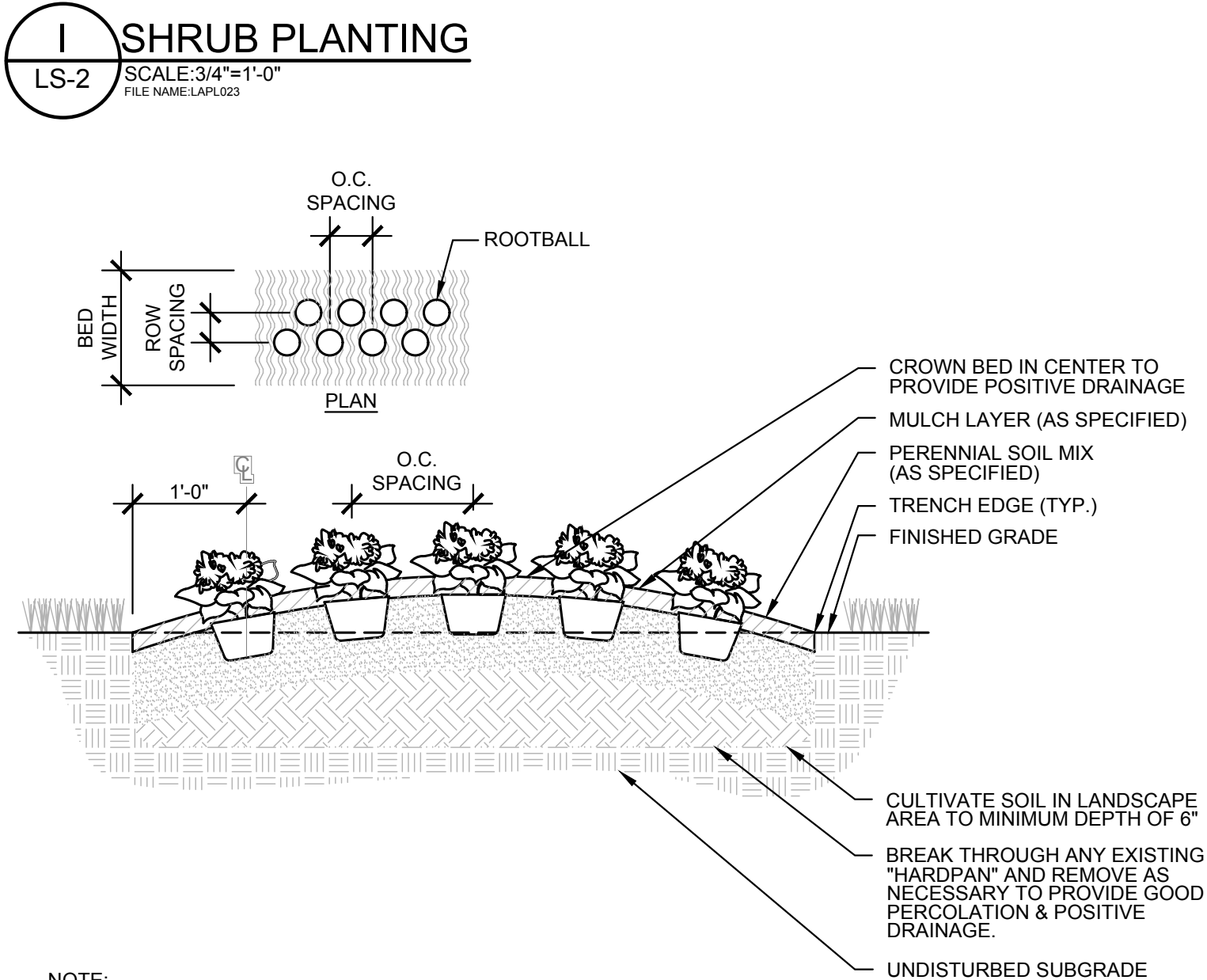


**NOTE:** MAXIMUM 2:1 SLOPE

**GENERAL NOTES:**

- SEE SPECIFICATIONS FOR DRAINAGE TEST REQUIREMENTS PRIOR TO PLANTING. SEC. 02900.
- DO NOT ALLOW AIR POCKETS TO FORM WHEN BACKFILLING.
- IMMEDIATELY SOAK WITH WATER.
- DO NOT BREAK ROOTBALL.

**L SHRUB/GROUNDCOVER PLANTING ON SLOPE**  
LS-2 SCALE: 1/2"=1'-0"  
FILE NAME: LAF1012

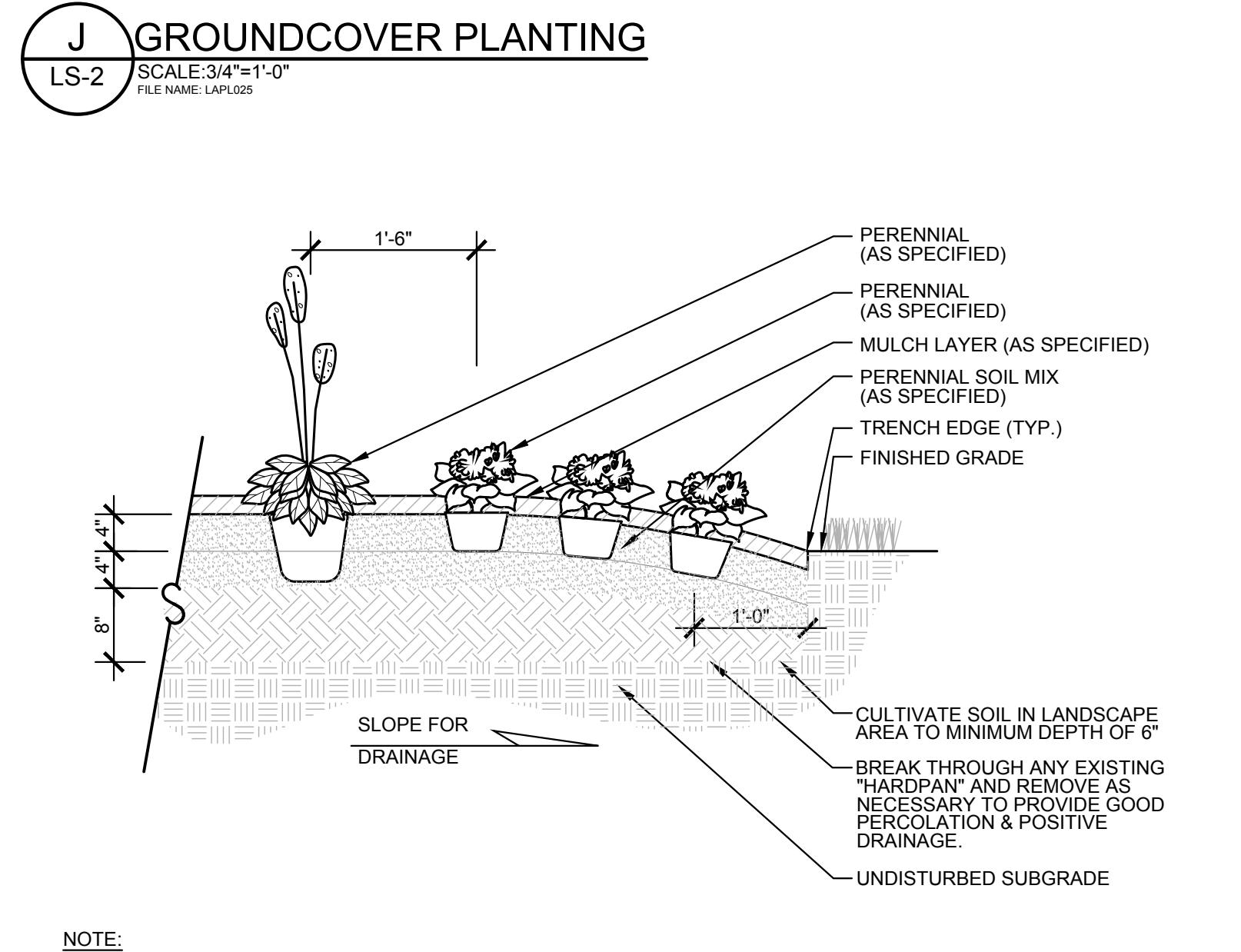


**NOTE:** FOR PROPER PLANTING PROCEDURE OF PERENNIAL BEDS, REFER TO "ANNUAL COLOR AND PERENNIAL PLANTING" NOTES.

**GENERAL NOTES:**

- SEE SPECIFICATIONS FOR DRAINAGE TEST REQUIREMENTS PRIOR TO PLANTING. SEC. 02900.
- DO NOT ALLOW AIR POCKETS TO FORM WHEN BACKFILLING.
- IMMEDIATELY SOAK WITH WATER.
- DO NOT BREAK ROOTBALL.

**M PERENNIAL BED PLANTING INDIVIDUAL SPECIES**  
LS-2 SCALE: 3/4"=1'-0"  
FILE NAME: LAF1013

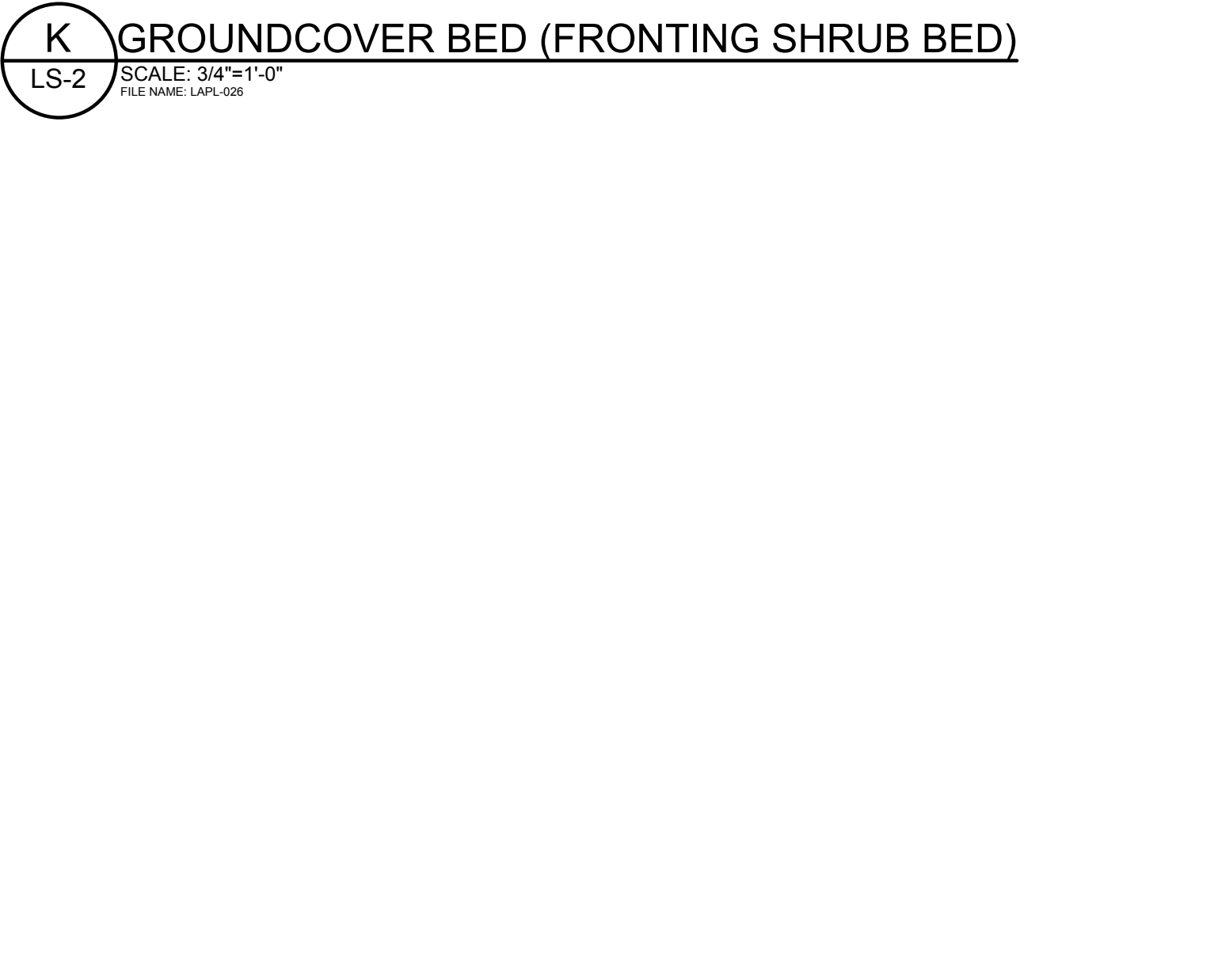


**NOTE:** FOR PROPER PLANTING PROCEDURE OF PERENNIAL BEDS, REFER TO "ANNUAL COLOR AND PERENNIAL PLANTING" NOTES.

**GENERAL NOTES:**

- SEE SPECIFICATIONS FOR DRAINAGE TEST REQUIREMENTS PRIOR TO PLANTING. SEC. 02900.
- DO NOT ALLOW AIR POCKETS TO FORM WHEN BACKFILLING.
- IMMEDIATELY SOAK WITH WATER.
- DO NOT BREAK ROOTBALL.

**N MASS PERENNIAL BED PLANTING**  
LS-2 SCALE: 3/4"=1'-0"  
FILE NAME: LAF1014



**NOTE:** FOR PROPER PLANTING PROCEDURE OF PERENNIAL BEDS, REFER TO "ANNUAL COLOR AND PERENNIAL PLANTING" NOTES.

**GENERAL NOTES:**

- SEE SPECIFICATIONS FOR DRAINAGE TEST REQUIREMENTS PRIOR TO PLANTING. SEC. 02900.
- DO NOT ALLOW AIR POCKETS TO FORM WHEN BACKFILLING.
- IMMEDIATELY SOAK WITH WATER.
- DO NOT BREAK ROOTBALL.

**O MASS PERENNIAL BED PLANTING**  
LS-2 SCALE: 3/4"=1'-0"  
FILE NAME: LAF1015



**NOTE:** FOR PROPER PLANTING PROCEDURE OF PERENNIAL BEDS, REFER TO "ANNUAL COLOR AND PERENNIAL PLANTING" NOTES.

**GENERAL NOTES:**

- SEE SPECIFICATIONS FOR DRAINAGE TEST REQUIREMENTS PRIOR TO PLANTING. SEC. 02900.
- DO NOT ALLOW AIR POCKETS TO FORM WHEN BACKFILLING.
- IMMEDIATELY SOAK WITH WATER.
- DO NOT BREAK ROOTBALL.

**P MASS PERENNIAL BED PLANTING**  
LS-2 SCALE: 3/4"=1'-0"  
FILE NAME: LAF1016



3525 Piedmont RD NE  
Building 8, Suite 320  
Atlanta, Georgia 30306  
www.hgor.com  
p. 404-248-1960  
f. 404-248-1092

CONSULTANT LOGO:

CONSULTANT INFORMATION:

PROJECT TITLE:  
**ROSA PARKS SQUARE RENOVATION  
PROJECT - ADD ALTERNATE SCOPE**

POPLAR STREET  
MACON, GEORGIA  
MACON-BIBB COUNTY  
MACON, GEORGIA

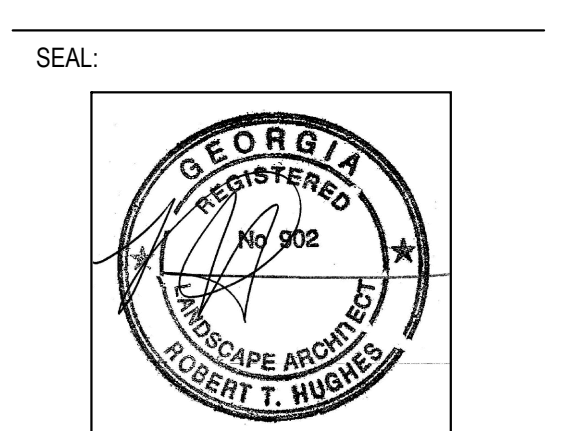
PROJECT NO:  
**21026**

PRINCIPAL IN CHARGE: TF  
PROJECT MANAGER: MW  
DRAWN BY: MW

ISSUE AND DATE:  
November 11th, 2021

CONSTRUCTION DOCUMENTS

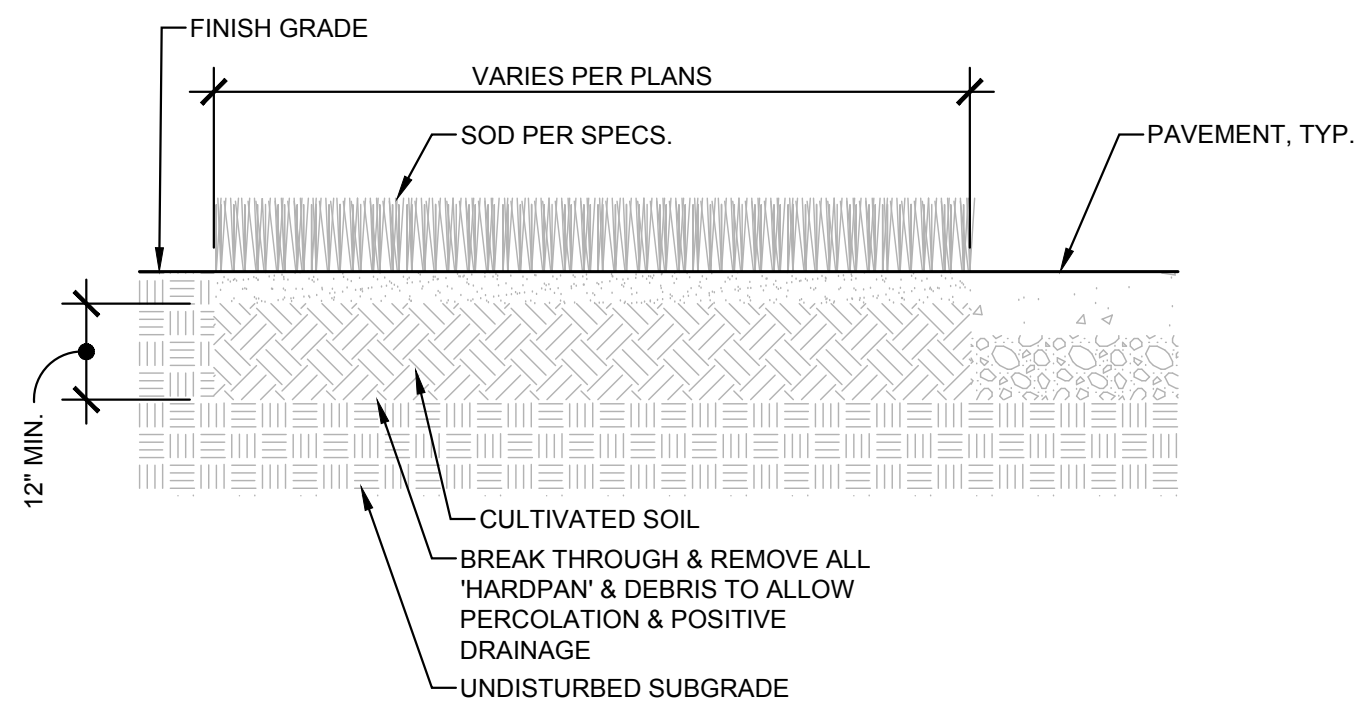
NO.	DATE	DESCRIPTION
1	04-05-2024	Revision 1



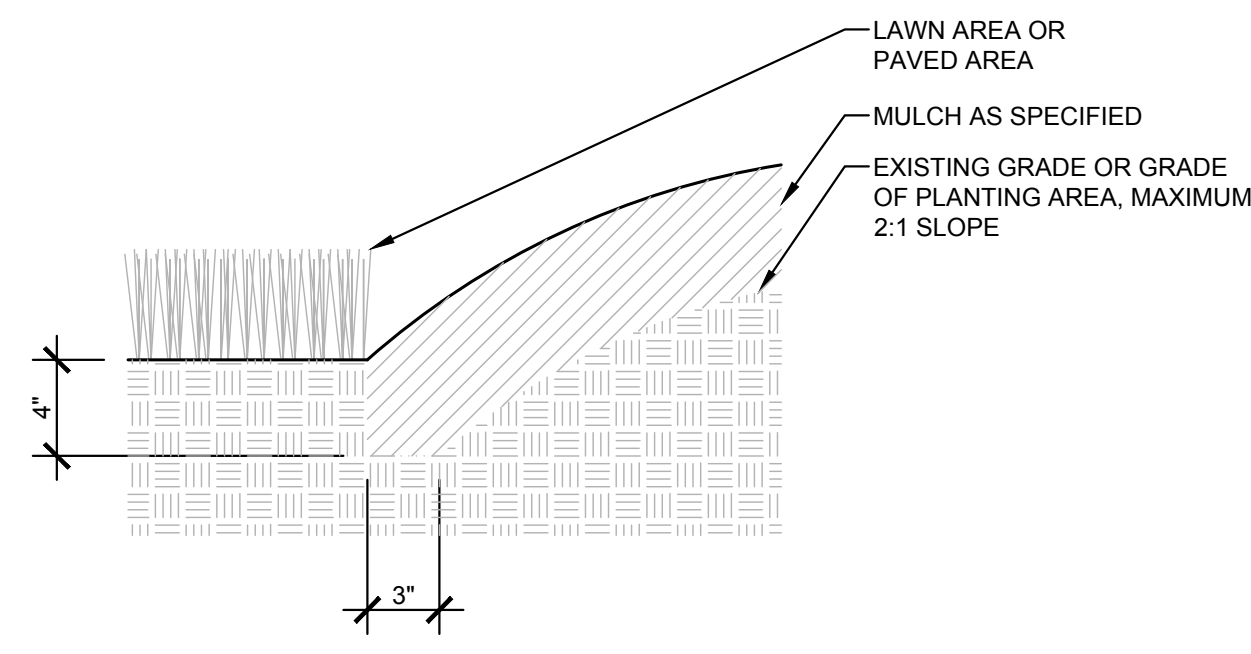
SHEET TITLE:  
**LANDSCAPE  
DETAILS**

SHEET NO.:  
**LS-2**

RELEASED FOR CONSTRUCTION



SODDING PROCEDURE:  
REFER TO SPECIFICATIONS FOR SODDING PROCEDURES



NOTE:  
1. TRENCH EDGE DETAIL SHALL BE USED AT ALL LAWN EDGES & AT EDGES OF MULCHED AREAS (FOR CONTAINMENT).  
2. TRENCH EDGE SHALL CREATE A CLEAN SEPARATION BETWEEN AREAS; & SHALL CREATE SMOOTH & EVEN LINES (AS INDICATED ON THE PLANS).

**A SOD INSTALLATION**  
LS-3  
SCALE: 1/2" = 1'-0"  
FILE NAME: LAPL039

**B TRENCH EDGE DETAIL**  
LS-3  
SCALE: 1/2" = 1'-0"  
FILE NAME: LAPL042

**PLANT SCHEDULE**

DATE/ISSUE: 03-25-2024

QUANTITY	BOTANICAL NAME	COMMON NAME	CALIPER	HEIGHT	SPREAD	ROOT	COMMENT
15	Juniperus virginiana 'Taylor'	Taylor Red Cedar		14-18'	4-5'	B&B	Full to ground; dense foliage; straight, tightly pruned pyramidal form
7	Lagerstroemia x 'Basham's Party Pink'	Basham's Party Pink Crape Myrtle		14-18'	9-10'	B&B	Multi-trunk (3-5 trunks); well pruned (no straight-whip trunks)
6	Magnolia grandiflora 'Southern Charm'	Teddy Bear Magnolia	3.5-4"	12-14'	5-6'	B&B	Full to ground; dense foliage; straight, tightly pruned pyramidal form
6	Magnolia virginiana 'Sweet Thing'	Sweet Thing Magnolia		6-7'	4-5'	B&B	Multi-trunk by 18" off ground; dense, well-pruned crown
4	Pinus glabra	Spruce Pine	4-4.5"	12-14'	6-7'	B&B	Straight trunk; top 1/2 min. with branching; dense form
7	Quercus lyrata 'QLFTB'	Highbeam Overcup Oak	5-5.5"	22-24'	10-12'	B&B	Single straight trunk; dense branching begins above 6'; central leader
2	Ulmus americana 'Creole Queen'	Creole Queen American Elm	5-5.5"	25-30'	10-12'	B&B	Straight trunk; 7' clear trunk; dense branching; one central leader
32	Camelia hiemalis 'Shishi Gashira'	Shishi Gashira Camellia		24-30"	24-30"	7 gal	Densely pruned form; healthy color; well rooted in pot
82	Hydrangea paniculata 'L'VOBO'	Bobo Hydrangea		15-18"	18-24"	3 gal	Dense branching; well rooted in pot; self supporting stems
11	Hydrangea paniculata 'Limelight'	Limelight Hydrangea		30-36"	30-36"	7 gal	Dense branching; well rooted in pot; self supporting stems
62	Illicium parviflorum	Ocala Anise		24-30"	18-24"	5 gal	Densely pruned form; healthy color; well rooted in pot
71	Loropetalum chinense 'PILC-I'	Crimson Fire Loropetalum		12-15"	15-18"	3 gal	Densely pruned form; healthy color; well rooted in pot
37	Rhododendron x 'Koromo Shikibu'	Koromo Shikibu Azalea		15-18"	15-18"	3 gal	Densely pruned form; healthy color; well rooted in pot
83	Rhododendron x 'Roblee'	Autumn Sangria Azalea		18-24"	18-24"	3 gal	Densely pruned form; healthy color; well rooted in pot
82	Rosa x 'Meidrfiora'	Coral Drift Rose		15-18"	18-24"	3 gal	Dense branching; well rooted in pot; self supporting stems
192	Viburnum obovatum 'Ms. Schiller's Delight'	Ms. Schiller's Delight Viburnum		12-15"	15-18"	3 gal	Densely pruned form; healthy color; well rooted in pot
12	Ficus pumila	Creeeping Fig		12-15"		1 gal	Full in pot; 3 runners min., each 12" min. in length; staked
27	Rosmarinus officinalis 'Prostratus'	Prostrate Rosemary				4" pot (1 pint)	Dense branching; healthy color; uniform growth habit
58	Trachelospermum asiaticum 'HOSNS'	Snow N Summer Asian Jasmine	6-9"	6-9"		1 gal	Full in pot; 5 runners min., each 6" min. in length
37	Amsonia hubrechtii	Arkansas Bluestar				1 gal	Fully rooted in pot; dense compact growth
16	Iris tectorum	Japanese Roof Iris				1 gal	Fully rooted in pot; dense compact growth
230	Muhlenbergia capillaris 'White Cloud'	White Cloud Muhly Grass				3 gal	Full in pot; well rooted; dense clump
24	Panicum virgatum 'Cape Breeze'	Cape Breeze Switch Grass		12-15"	12-15"	3 gal	Full in pot; well rooted; dense clump
32	Phlox subulata	Moss Phlox				4" pot (1 pint)	Fully rooted in pot; dense compact growth
14859	Cynodon dactylon 'TITuF'	TITuF Bermuda Grass				Sod	Certified pure; free of weeds; good color

**GENERAL PLANTING NOTES:**

- THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL MATERIAL QUANTITIES SHOWN ON THESE DRAWINGS BEFORE PRICING THE WORK.
- PROVIDE PLANT MATERIALS TRUE TO SPECIES AND VARIETY COMPLYING WITH RECOMMENDATIONS OF 'AMERICAN STANDARD FOR NURSERY STOCK' BY THE AMERICAN ASSOCIATION OF NURSERY MEN.
- THE LANDSCAPE CONTRACTOR SHALL COMPLETELY WARRANTY ALL PLANT MATERIAL FOR A PERIOD OF ONE (1) YEAR BEGINNING AT THE DATE OF SUBSTANTIAL COMPLETION. THE LANDSCAPE CONTRACTOR SHALL PROMPTLY MAKE ALL REPLACEMENTS BEFORE OR AT THE END OF THE WARRANTY PERIOD (AS DIRECTED BY THE OWNER).
- ANY PLANT MATERIAL WHICH DIES, TURNS BROWN OR DEFOOLIATES (PRIOR TO DATE OF SUBSTANTIAL COMPLETION OF THE WORK) SHALL BE PROMPTLY REMOVED FROM THE SITE AND REPLACED WITH MATERIAL OF THE SAME SPECIES, QUANTITY, SIZE AND MEETING ALL THE PLANT LIST SPECIFICATIONS.
- LOCATE AND VERIFY ALL UTILITY LOCATIONS AND EXISTING STRUCTURES IN AND AROUND THE SITE PRIOR TO WORK. MAINTAIN EXISTING UTILITIES AND STRUCTURES AND PROTECT AGAINST DAMAGE DURING THE WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES TO EXISTING UTILITIES, STRUCTURES, PAVING AND/OR WORK OF OTHER TRADES RESULTING FROM LANDSCAPE CONSTRUCTION.
- ALL PLANTS MUST BE HEALTHY, VIGOROUS MATERIAL, FREE OF DISEASES, INSECTS, EGGS, LARVAE, AND DEFECTS SUCH AS KNOTS, SUN-SCALD, INJURIES, ABRASIONS AND/OR DISFIGUREMENT.
- WATER AND WATER TRANSPORTATION IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- ALL PLANTS ARE SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT AND THE OWNER BEFORE, DURING AND UNTIL DATE OF SUBSTANTIAL COMPLETION OF THE WORK.
- ALL PLANTS MUST BE CONTAINER-GROWN (CONT.) OR BALLED AND BURLAPPED (B & B) AS INDICATED IN THE PLANT LIST.
- ALL TREES MUST BE STRAIGHT TRUNKED, FULL HEADED AND MEET ALL REQUIREMENTS SPECIFIED.
- AFTER BEING DUG AT THE NURSERY SOURCE, ALL TREES IN LEAF SHALL BE ACCLIMATED FOR TWO (2) WEEKS UNDER A MIST SYSTEM PRIOR TO INSTALLATION.
- THE LANDSCAPE ARCHITECT WILL APPROVE THE STAKED LOCATION OF ALL PLANT MATERIAL PRIOR TO INSTALLATION.
- ALL PLANTS AND PLANTING AREAS MUST BE COMPLETELY MULCHED AS SPECIFIED.
- ALL TREES MUST BE GUYED OR STAKED AS SHOWN IN THE DRAWINGS.
- THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR FULLY MAINTAINING ALL PLANTING (INCLUDING, BUT NOT LIMITED TO: WATERING, SPRAYING, MULCHING, FERTILIZING, MOWING, ETC.) OF PLANTING AREAS AND LAWNS UNTIL DATE OF SUBSTANTIAL COMPLETION.

**PLANTING SOIL MIX NOTES:**

- THE LANDSCAPE CONTRACTOR SHALL FURNISH TOPSOIL; TOPSOIL MUST BE APPROVED BY THE LANDSCAPE ARCHITECT. REFER TO SPECIFICATION SECTION 329000 FOR TOPSOIL REQUIREMENTS.
- THE LANDSCAPE CONTRACTOR SHALL SUPPLY ALL PLANTING SOIL MIX.
- THE PLANTING SOIL MIX MUST APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO ANY BACKFILLING.
- THE TYPICAL PLANTING SOIL MIX FOR ON-GRADE PLANTINGS (TREES, SHRUBS & GROUND COVERS) SHALL CONSIST OF THE FOLLOWING UNLESS OTHERWISE INDICATED ON THE DRAWINGS:
  - 60% TOPSOIL (AS SPECIFIED)
  - 40% PREPARED ADDITIVES (BY VOLUME AS FOLLOWS):
    - 2 PARTS HUMUS, PEAT, AND/OR NUTRIENT GRADE COMPOST
    - 1 PART SHREDDED AND PARTIALLY COMPOSTED FINE BARK (BARK PIECES 1/2 INCH MAXIMUM IN LENGTH)
  - COMMERCIAL FERTILIZER AS RECOMMENDED IN SOIL REPORT.
  - LIME AS RECOMMENDED IN SOIL REPORT.

FILE NAME: LAPL044

**CLEAN AND MULCH NOTES:**

THE CONTRACTOR SHALL CLEAR AND GRUB ALL WEEDS, DEAD TREES, TREES ONE (1) INCH CALIPER OR LESS AND OTHER SELECT TREES UP TO FOUR (4) INCH CALIPER AS DETERMINED IN THE FIELD IN THE TREE SAVE AREAS INDICATED ON THE DRAWINGS. A 3 INCH MINIMUM LAYER OF SPECIFIED MULCH SHALL BE SPREAD OVER THE ENTIRE CLEARED AREA. THE CONTRACTOR WILL NOTIFY THE LANDSCAPE ARCHITECT PRIOR TO START OF CLEAN AND MULCH WORK. THE LANDSCAPE ARCHITECT WILL VERIFY SCOPE OF WORK IN FIELD WITH THE CONTRACTOR PRIOR TO START OF WORK. THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL AND LEGAL DISPOSAL OF ALL DEBRIS FROM CLEAN-UP OPERATIONS FROM THE SITE.

FILE NAME: LAPL046

**ANNUAL COLOR AND PERENNIAL PLANTING NOTES:**

- EXCAVATE BED TO A DEPTH OF 4 INCHES. REMOVE EXISTING SOIL FROM SITE. BREAK THROUGH "HARDPAN" AND REMOVE ALL STONE, ROOTS, DEBRIS, ETC.. ROTOTILL EXCAVATED BED AN ADDITIONAL 6-8 INCHES IN DEPTH.
- SLOPE THE BASE OF THE BED TO THE TRENCH EDGE.
- PREPARE PLANTING SOIL MIX CONSISTING OF TOPSOIL AND THE FOLLOWING SOIL AMENDMENTS BY VOLUME. REFER TO SPECIFICATION SECTION 329000 FOR TOPSOIL REQUIREMENTS.
  - 40% TOPSOIL (AS SPECIFIED)
  - 25% HUMUS
  - 15% CYPRESS MULCH (FINGERNAILED SIZED CHIPS - 1/4 INCH MAX.)
  - 5% STERILIZED COMPOSTED COW MANURE
  - 5% SAND (ANGULAR BUILDERS SAND) LIME AT A RATE OF 5 LBS. PER 50 SQ. FEET (ADJUST FOR ALKALINE SOILS)
- ADD 6 INCHES OF PLANTING SOIL TO EXCAVATE BED & ROTOTILL INTO EXISTING SOIL.
- PLACE ADDITIONAL PLANTING SOIL MIX TO RAISE ENTIRE BED 6 INCHES ABOVE FINISHED GRADE FOR SEASONAL COLOR AND 4 INCHES FOR PERENNIALS. IF SEASONAL BED FRONTS A SHRUB OR GROUND COVER BED, MATCH THAT BED'S HEIGHT & CONTINUE POSITIVE SLOPE TOWARD TRENCH EDGE.
- ROTOTILL ENTIRE BED TO A DEPTH OF 12 INCHES.
- EVENLY SPREAD FERTILIZER APPROPRIATE TO A VARIETY OF SEASONAL COLOR AT A MAXIMUM RATE OF 2.5 LBS. PER 100 SQ. FEET AND RAKE INTO TOP 3 INCHES OF SOIL.
- PLANT SEASONAL COLOR AS SPECIFIED AND AT INDICATED SPACING SHOWN ON PLANS.
- EDGE SEASONAL COLOR BED AND MULCH AS SPECIFIED.
- WATER THOROUGHLY.

FILE NAME: LAPL048

CONSULTANT LOGO:

CONSULTANT INFORMATION:

PROJECT TITLE:

**ROSA PARKS SQUARE RENOVATION  
PROJECT - ADD ALTERNATE SCOPE**

POPLAR STREET  
MACON, GEORGIA  
MACON-BIBB COUNTY  
MACON, GEORGIA

PROJECT NO:  
**21026**

PRINCIPAL IN CHARGE: TF  
PROJECT MANAGER: MW  
DRAWN BY: MW

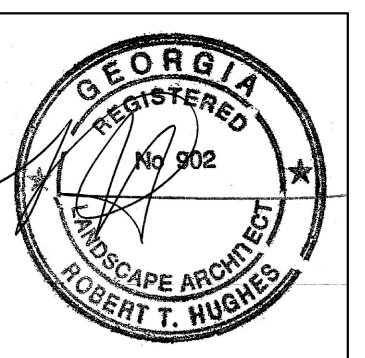
ISSUE AND DATE:  
November 11th, 2021

CONSTRUCTION DOCUMENTS

REVISIONS:

NO.	DATE	DESCRIPTION
1	04-05-2024	Revision 1

SEAL:



SHEET TITLE:  
**LANDSCAPE  
NOTES &  
SCHEDULE**

SHEET NO.:

**LS-3**





**SECTION 324800  
PLANTING IRRIGATION NOTES  
(FOR IRRIGATION LIMITS PLANS)**

**A. GENERAL**

- THIS PLAN SHALL SERVE AS THE LIMITS OF IRRIGATION ONLY. IT DOES NOT REFLECT OR DEPICT THE IRRIGATION DESIGN. THE CONTRACTOR IS RESPONSIBLE FOR THE IRRIGATION DESIGN SO IT MEETS THE REQUIREMENTS OF SPECIFICATION SECTION 324800 SITE IRRIGATION AND THE FOLLOWING STANDARDS.
- PROVIDE AND COMPLETE AN OPERABLE SYSTEM FOR THE IRRIGATION OF ALL LANDSCAPED AREAS ON THE PROJECT SITE UNLESS INDICATED OTHERWISE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING HEAD LOCATION, HEAD/NOZZLE TYPE AND SIZE, AND ANY OTHER SYSTEM COMPONENTS SO THAT IRRIGATION SYSTEM LAYOUT IS COORDINATED WITH ACTUAL FIELD CONDITIONS. SUCH ADJUSTMENTS SHALL BE MADE AT NO COST TO THE OWNER EXCEPT, WHEN AUTHORIZED IN WRITING, SUCH ADJUSTMENTS WHICH WILL BE COMPENSATED FOR AT AN AGREED UPON COST.
- CONTRACTORS SHALL PROVIDE WITH THE BID A SIMPLE DESIGN INDICATING THE SCHEMATIC LOCATION OF EACH ZONE, THE QUANTITY AND TYPE OF SPRINKLERS TO BE USED.
- CONTRACTORS SHALL SPECIFY WITH THE BID THE MANUFACTURERS OF THE CONTROLLER, VALVES, AND SPRINKLERS.
- COMPLY WITH ALL CODES, ORDINANCES AND REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION.
- OBTAIN ALL REQUIRED PERMITS AND PAY ALL REQUIRED FEES, AT NO ADDITIONAL COST TO THE OWNER. PENALTIES IMPOSED DUE TO FAILURE TO OBTAIN PERMITS OR PAY FEES ARE THE RESPONSIBILITY OF THE CONTRACTOR.
- ALL WORK SHALL BE WARRANTED BY THE CONTRACTOR FOR A PERIOD OF ONE YEAR AGAINST DEFECTS IN MATERIAL, EQUIPMENT, WORKMANSHIP AND ANY REPAIRS RESULTING FROM LEAKS OR OTHER DEFECTS OF WORKMANSHIP, MATERIALS OR EQUIPMENT.
- SUBMIT SHOP DRAWINGS SHOWING IRRIGATIONS SYSTEM, INCLUDING PLAN LAYOUT AND LOCATIONS, TYPES, SIZES, CAPACITIES, AND FLOW CHARACTERISTICS OF IRRIGATION SYSTEM COMPONENTS.
- SUBMIT "AS-BUILT" DRAWING AT COMPLETION OF WORK SHOWING LOCATIONS OF ALL VALVES, HOSE BIBS AND WIRE SPLICES, WITH ACTUAL TRIANGULATED DIMENSIONS, AS WELL AS ANY DEVIATIONS ON LOCATION OF PIPING.
- LOCATE AND VERIFY ALL UTILITY LOCATIONS ON AND AROUND THE SITE PRIOR TO WORK. MAINTAIN EXISTING UTILITIES AND PROTECT THEM AGAINST DAMAGE DURING THE WORK.
- CONTRACTOR SHALL MAKE ANY NECESSARY ADJUSTMENTS IN THE PROPOSED IRRIGATION SYSTEM TO AVOID DAMAGE TO EXISTING STRUCTURES, PAVING AND UTILITIES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING STRUCTURES, PAVING, UTILITIES AND/OR OTHER CONSTRUCTION RESULTING FROM IRRIGATION CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MATERIALS AND LABOR TO FULLY EXECUTE AND GUARANTEE THE WORK AS REQUIRED. THE LIMITS OF WORK SHOWN ON THESE DRAWINGS SHALL BE IRRIGATED IN ACCORDANCE WITH THE SPECIFICATIONS AND PER THE DIRECTION OF THE OWNER OR LANDSCAPE ARCHITECT.
- ALL ADJUSTMENTS TO THE WORK SHALL BE SUBJECT TO THE APPROVAL OF THE OWNER OR THE LANDSCAPE ARCHITECT.
- IRRIGATION CONTRACTOR WILL BE RESPONSIBLE FOR CONTACTING THE LANDSCAPE CONTRACTOR AND COORDINATING THE LAYOUT OF THE IRRIGATION SYSTEM WITH THE LANDSCAPE BED LINES PRIOR TO INSTALLATION.
- INSTALL BACKFLOW PREVENTER BELOW GRADE MEETING REQUIREMENTS OF LOCAL AUTHORITIES HAVING JURISDICTION UNLESS OTHERWISE REQUIRED BY JURISDICTION.
- LOCATE ALL IRRIGATION PIPING IN SUCH A WAY AS TO CAUSE THE LEAST CONFLICT WITH THE LOCATION OF PLANT MATERIALS AND OTHER SITE IMPROVEMENTS.
- MAIN LINE PIPING SHALL BE INSTALLED A MAXIMUM OF TWO (2) FEET FROM THE BACK OF CURB. LATERAL LINE PIPING SHALL BE INSTALLED SIMILARLY WHERE POSSIBLE.
- ALL VALVE BOXES SHALL BE LOCATED IN PLANT BEDS OR NATURAL AREAS. EXCEPTION WILL BE ALLOWED IF NO SUCH AREA IS WITHIN A 40-FOOT RADIUS OF THE DESIGNATED CONTROL VALVE LOCATION. NO MORE THAN TWO VALVE BOXES ARE TO BE LOCATED IN ONE SPECIFIC AREA.
- ALL SWING JOINTS SHALL BE OF RIGID ELBOW TYPE CONSTRUCTION. FLEX PIPE AND PHUNNY PIPE IS NOT ACCEPTABLE.
- THE IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE OWNER ON THE ELECTRICAL REQUIREMENTS AND LOCATION THEREOF FOR THE IRRIGATION CONTROL CLOCK. IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ELECTRICAL CONNECTIONS FROM THE 120 VAC SERVICE PROVIDED TO THE CONTROL CLOCK AND THE 24 VOLT FIELD WIRING TO THE CONTROL CLOCK.
- THE LOCATION OF THE CONTROL CLOCK SHALL BE COORDINATED WITH THE OWNER.
- THE CONTRACTOR SHALL ADJUST THE RADIUS AND ARC OF EACH SPRINKLER TO MINIMIZE "OVER THROW" AND TO ELIMINATE "DRY SPOTS".
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SUPPLY AND INSTALLATION OF ADDITIONAL HEADS NEEDED TO COVER "DRY SPOTS". THE LOCATION AND ARRANGEMENT OF THESE HEADS SHALL BE SUBJECT TO APPROVAL OF THE OWNER OR LANDSCAPE ARCHITECT.

**B. SLEEVING**

- IRRIGATION SLEEVING SHALL BE PROVIDED AND INSTALLED BY THE IRRIGATION CONTRACTOR.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES, STRUCTURES, OR OTHER CONSTRUCTION RESULTING FROM INSTALLATION OF SLEEVES.
- ANY MODIFICATIONS TO THE SLEEVING IS SUBJECT TO THE APPROVAL OF THE OWNER OR THE LANDSCAPE ARCHITECT.
- ALL SLEEVES SHALL BE CLASS 160 SOLVENT WELD PVC PIPE OR SCHEDULE 80 PVC PIPE, AS PER THE SPECIFICATIONS.
- SLEEVES SHALL BE STRAIGHT, LEVEL AND THE SHORTEST LENGTH POSSIBLE. THE CONTRACTOR SHALL MAKE ANY ADJUSTMENT NECESSARY TO ACCOMMODATE EXISTING VEGETATION, UTILITIES, OR OTHER MAJOR CONSTRUCTION.
- THERE SHALL BE NO TURNS OR BENDS IN THE SLEEVES.
- BACKFILL MATERIAL PLACED AROUND THE SLEEVES SHALL BE FREE OF ROCKS OR OTHER FOREIGN MATTER THAT MAY CAUSE DAMAGE TO THE PIPE. TRENCH BACKFILL SHALL BE THOROUGHLY COMPACTED SUCH THAT NO SETTLEMENT OF FINISHED GRADE OCCURS.
- SLEEVES SHALL BE INSTALLED AT A DEPTH OF AT LEAST 24 INCHES BELOW PAVEMENT SURFACE, AND NO DEEPER THAN 36 INCHES. END OF THE SLEEVE SHALL EXTEND 18 INCHES BEYOND CURB OR PAVEMENT EDGE (SEE DETAIL).
- THE CONTRACTOR SHALL INSTALL A VERTICAL STUB THAT IS AT LEAST 18 INCHES ABOVE GRADE AT EACH END OF THE SLEEVE TO MARK ITS EXACT LOCATION.
- ONCE THE SLEEVING IS INSTALLED, THE CONTRACTOR SHALL INSTALL A TEMPORARY CAP ON EACH END OF THE SLEEVE TO MARK ITS EXACT LOCATION.
- THE CONTRACTORS SHALL LOCATE AND UNCOVER THE ENDS OF ALL SLEEVES.

**C. SYSTEM PERFORMANCE REQUIREMENTS**

- IRRIGATION ZONE CONTROLS SHALL BE AUTOMATIC OPERATION WITH CONTROLLER AND AUTOMATIC CONTROL VALVES.
- GENERAL IRRIGATION COVERAGE IS NOT ACCEPTABLE.
- ALL TURF, SHRUB/GROUND COVER BEDS AND SEASONAL COLOR BEDS SHALL BE IRRIGATED AND CONTROLLED BY SEPARATE ZONES.
- MINIMUM WATER COVERAGE NOT LESS THAN:
  - TURF AREAS: 100 PERCENT
  - OTHER PLANTING AREAS: 70 PERCENT
- COMPONENTS AND INSTALLATION: CAPABLE OF PRODUCING PIPING SYSTEMS WITH THE FOLLOWING MINIMUM WORKING PRESSURE RATINGS.
  - PRESSURE PIPING: 200 PSIG
  - CIRCUIT AND DRAIN PIPING: 150 PSIG
  - DRAIN PIPING: 100 PSIG

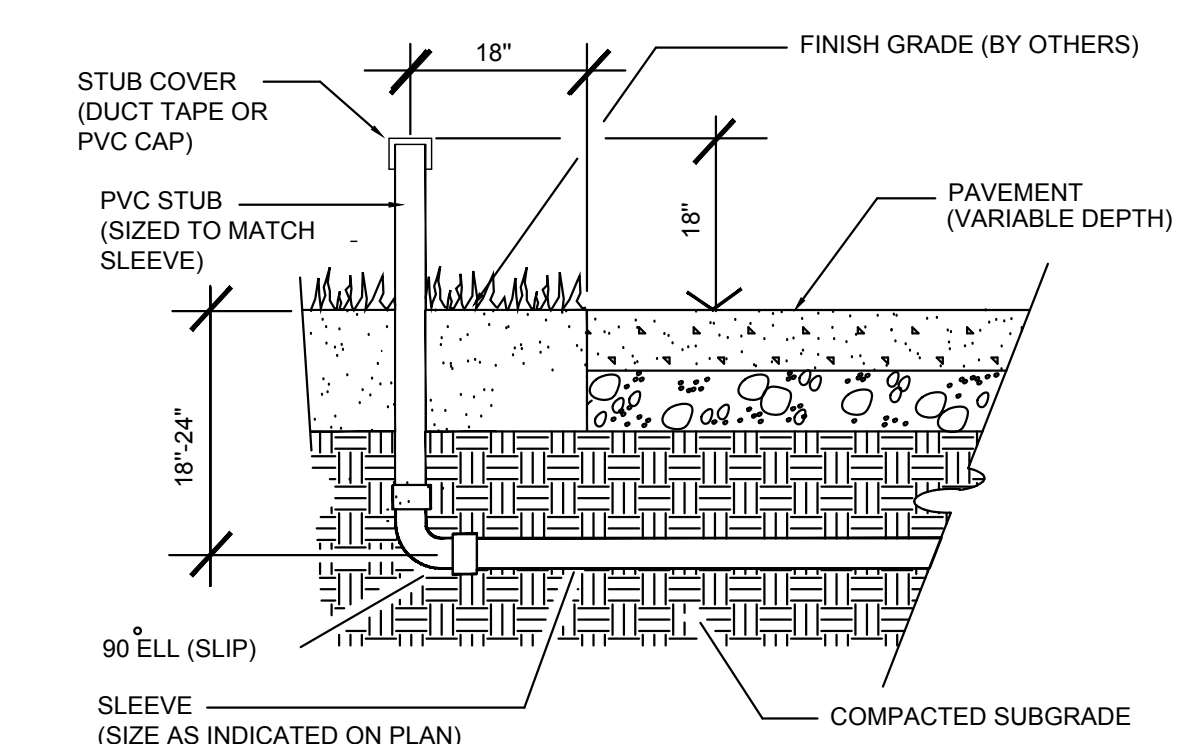
**D. KEY**

**SITE IRRIGATION NOTES:**

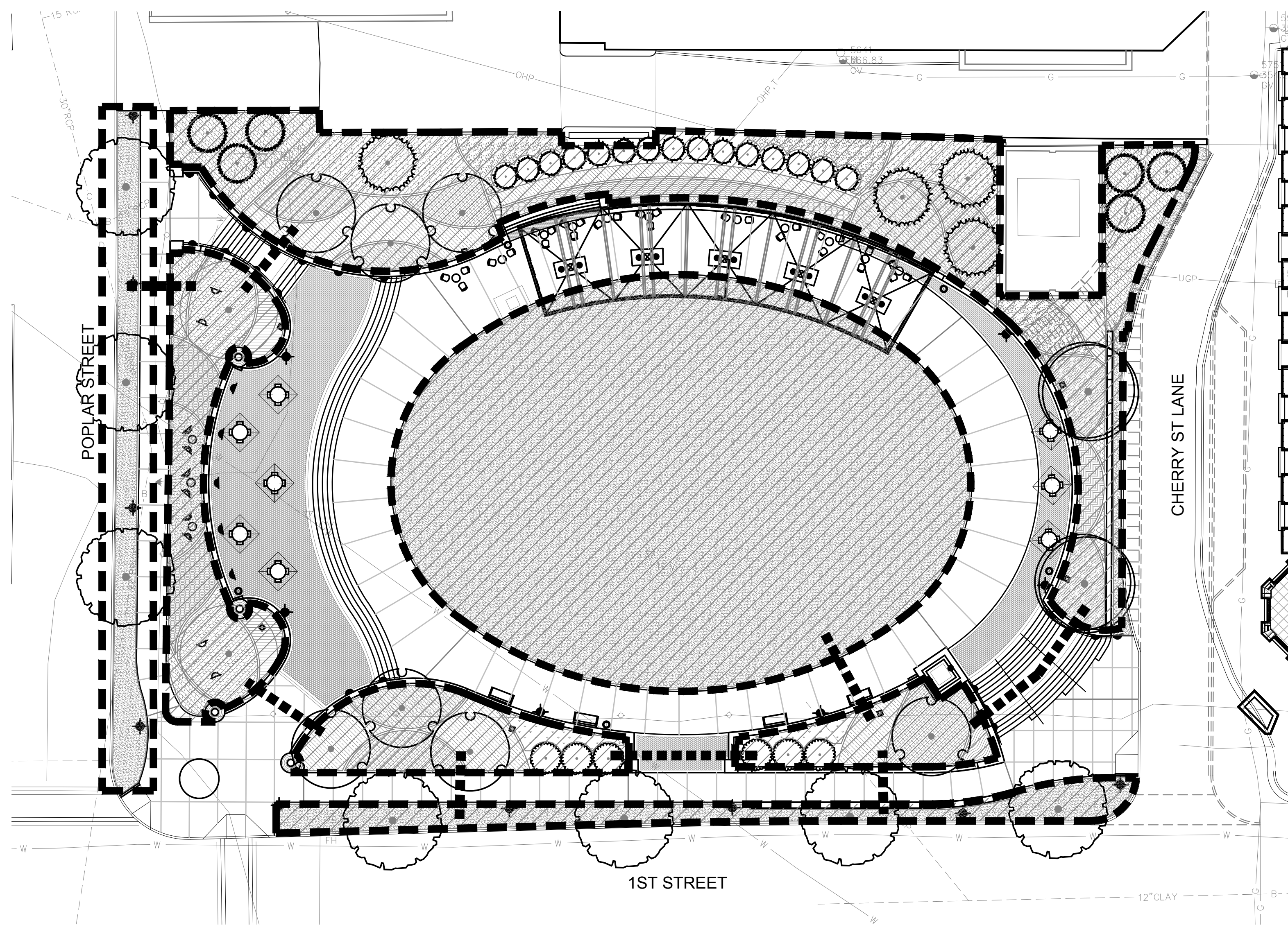
- THE CONTRACTOR'S ATTENTION IS CALLED TO THE FACT THAT THERE ARE OTHER ACTIVE UTILITIES AND SERVICES IN AND AROUND THIS SITE. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING THESE TO AVOID DAMAGE TO THEM.
- THE CONTRACTOR SHALL MAKE ANY NECESSARY ADJUSTMENTS IN THE PROPOSED IRRIGATION SYSTEM TO AVOID DAMAGE TO EXISTING STRUCTURES, PAVING AND UTILITIES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES, STRUCTURES, PAVING, OR OTHER CONSTRUCTION RESULTING FROM IRRIGATION CONSTRUCTION.
- THE CONTRACTOR SHALL COMPLY WITH ALL CODES, ORDINANCES AND REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION.
- ALL WORK ADJUSTMENTS, AND INSPECTIONS SHALL BE SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MATERIALS AND LABOR TO FULLY EXECUTE AND GUARANTEE THE WORK AS REQUIRED. THE TOTAL WORK SHOWN ON THESE DRAWINGS SHALL BE IN ACCORDANCE WITH SPECIFICATIONS, AND ALSO AS PER INSTRUCTIONS OF THE LANDSCAPE ARCHITECT, AND THE OWNER.
- THE CONTRACTOR SHALL VERIFY ALL QUANTITIES TO ASSURE ADEQUATE INSTALLATION OF THE SYSTEM.
- THE LOCATION OF THE CONTROL CLOCKS ARE GENERALLY INDICATED ON THE DRAWINGS AND WILL BE SPECIFICALLY LOCATED ON SITE BY THE LANDSCAPE ARCHITECT OR THE OWNER.
- LINE LOCATIONS INDICATED ON THE DRAWINGS ARE SCHEMATIC. THE CONTRACTOR SHALL LOCATE ALL LINES IN SUCH A WAY AS TO CAUSE THE LEAST CONFLICT WITH THE LOCATION OF PROPOSED PLANT MATERIALS AND OTHER SITE IMPROVEMENTS.
- ALL MAIN LINES SHALL BE INSTALLED A MAXIMUM OF 2 FEET FROM THE BACK OF CURB WHERE POSSIBLE. LATERAL LINES SHALL BE INSTALLED LIKEWISE WHERE POSSIBLE.
- THE CONTRACTOR SHALL ADJUST THE RADIUS AND ARC OF EACH HEAD TO MINIMIZE "OVERTHROW" AND TO ELIMINATE "DRY SPOTS".
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SUPPLY AND INSTALLATION OF ADDITIONAL HEADS NEEDED TO COVER "DRY SPOTS". THE LOCATION AND ARRANGEMENT OF THESE HEADS SHALL BE SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT.
- ALL VALVE BOXES ARE TO BE LOCATED IN PLANT BEDS OR NATURAL AREAS WHENEVER POSSIBLE. EXCEPTIONS WILL BE ALLOWED IF THERE IS NO SUCH AREA WITHIN A 40' RADIUS OF THE DESIGNATED CONTROL VALVE LOCATION. NO MORE THAN TWO VALVE BOXES ARE TO BE LOCATED IN ONE SPECIFIC AREA.
- THE ELECTRICAL SERVICE WILL BE STUBBED OUT AT THE CONTROL CLOCK LOCATION BY THE OWNER. THE IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ELECTRICAL CONNECTIONS FROM THE PROVIDED 120 VAC SERVICE TO THE CONTROL CLOCK AND THE 24 VOLT FIELD WIRING TO THE CONTROL VALVE.
- EACH CONTROL CLOCK HAS STATIONS THAT ARE NOT BEING UTILIZED. FOR EVERY VACANT STATION THERE IS TO BE A FIELD WIRE INSTALLED TO THE FURTHEST CONTROL VALVE LOCATION IN ANY ONE DIRECTION FROM THE CONTROL CLOCK. ONE SPARE WIRE SHALL BE INSTALLED IN CASE OF A FAULTY WIRE.
- THE NEWLY INSTALLED COMPONENTS OF THE SYSTEM SHALL BE UNCONDITIONALLY GUARANTEED BY THE IRRIGATION CONTRACTOR AGAINST ALL DEFECTIVE WORK AND MATERIALS FOR A PERIOD OF ONE YEAR FOLLOWING THE DATE OF SUBSTANTIAL COMPLETION.
- THE CONTRACTOR SHALL BE RESPONSIBLE AT TIME OF COMPLETION FOR PROVIDING "AS BUILT" DRAWINGS, TO INCLUDE LOCATION OF VALVES (AUTOMATIC, MANUAL, AND WIRE SPLICES) WITH TRIANGULATED MEASUREMENTS TO EACH, AS WELL AS ANY DEVIATION IN LOCATION OF PIPING.
- IT IS THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO HAVE ALL PLANTING AREAS LAID OUT BY THE LANDSCAPE ARCHITECT OR LANDSCAPE CONTRACTOR PRIOR TO INSTALLATION.

**SLEEVING NOTES:**

- THE LOCATION OF SLEEVES, AS SHOWN ON THE DRAWINGS, ARE SCHEMATIC. SLEEVES SHALL BE STRAIGHT, LEVEL, AND THE SHORTEST LENGTH POSSIBLE. THE CONTRACTOR SHALL MAKE ANY ADJUSTMENT NECESSARY TO ACCOMMODATE EXISTING VEGETATION, UTILITIES, OR OTHER MAJOR CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES, STRUCTURES, OR OTHER CONSTRUCTION RESULTING FROM INSTALLATION OF SLEEVES.
- WHERE A JOINT BETWEEN PIPE SECTIONS IS NECESSARY, THE INSIDE DIAMETER OF THE PIPE SHALL NOT BE REDUCED.
- SLEEVES SHALL BE INSTALLED AT A DEPTH OF AT LEAST 24 INCHES BELOW PAVEMENT SURFACE, AND NO DEEPER THAN 36 INCHES. END OF THE SLEEVE SHALL EXTEND 18 INCHES BEYOND CURB OR PAVEMENT EDGE (SEE DETAILED).
- THE CONTRACTOR SHALL INSTALL A VERTICAL STUB THAT IS AT LEAST 18 INCHES ABOVE GRADE AT EACH END OF THE SLEEVE TO MARK ITS EXACT LOCATION.
- ONCE THE SLEEVING IS INSTALLED, THE CONTRACTOR SHALL INSTALL A TEMPORARY CAP ON EACH END OF THE SLEEVE TO MARK ITS EXACT LOCATION.
- BACKFILL MATERIAL PLACED AROUND THE SLEEVES SHALL BE FREE OF ROCKS OR OTHER FOREIGN MATTER THAT MAY CAUSE DAMAGE TO THE PIPE. TRENCH BACKFILL SHALL BE THOROUGHLY COMPACTED SUCH THAT NO SETTLEMENT OF FINISHED GRADE OCCURS.
- ANY MODIFICATIONS TO THE SLEEVING IS SUBJECT TO THE APPROVAL OF THE OWNER'S REPRESENTATIVE.
- THE CONTRACTOR SHALL PROVIDE AN "AS-BUILT" PLAN OF THE LOCATION OF ALL SLEEVES, PRIOR TO ACCEPTANCE OF THE WORK.
- ALL SLEEVES SHALL BE CLASS 160 SOLVENT WELD PVC PIPE OR SCHEDULE 80 PVC PIPE, AS PER THE SPECIFICATIONS. SLEEVE SIZES ARE SHOWN ON THE DRAWINGS.
- ALL SLEEVES SHALL BE INSTALLED BY THE CONTRACTOR UNLESS OTHERWISE NOTED.
- THERE SHALL BE NO TURNS OR BENDS IN THE SLEEVES.
- THE CONTRACTOR SHALL LOCATE AND UNCOVER THE ENDS OF ALL SLEEVES.



**B** SLEEVE INSTALLATION SECTION  
IR-1 N.T.S. (FOR INFORMATION ONLY) ID 5



**A** IRRIGATION LIMITS PLAN  
IR-1 SCALE: 1:20

