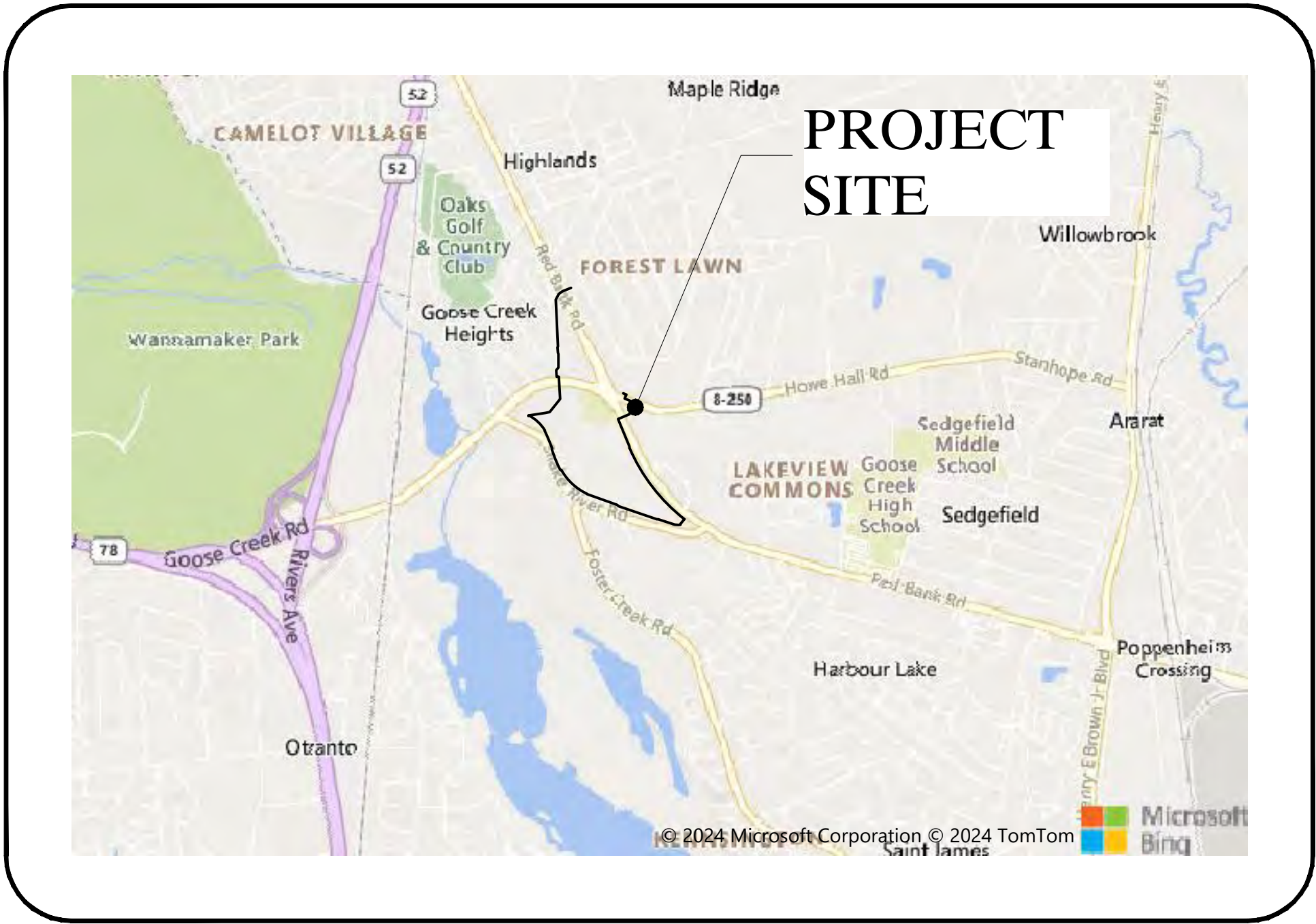


July 10, 2017 C:\Users\hadams\Desktop\Goose Creek\AutoCAD\G.SHEETS.dwg

# WATER SYSTEM EXPANSION - SOUTH

SCIIP GRANT - A-23-C081  
GOOSE CREEK, SC



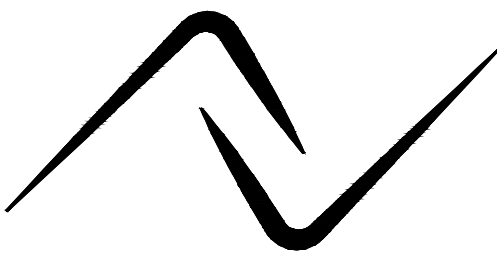
LOCATION MAP

FOR:

CITY OF GOOSE CREEK

200 BUTTON HALL AVE.  
GOOSE CREEK, SC 29445

843-824-2200



**ARDURRA**

COLLABORATE. INNOVATE. CREATE.

220 N. Main Street, Suite 500  
Greenville, SC 29601  
Phone: (864) 226-6111  
www.Ardurra.com



**GOOSE CREEK  
PUBLIC WORKS**

Sheet List Table	
Sheet Number	Sheet Title
G0.00	COVER
G0.01	GENERAL NOTES AND ABBREVIATIONS SHEET 1 OF 2
G0.02	GENERAL NOTES AND ABBREVIATIONS SHEET 2 OF 2
C1.00	OVERALL SHEET LAYOUT
C1.01	WATERLINE PLAN & PROFILE SHEET 1 OF 7
C1.02	WATERLINE PLAN & PROFILE SHEET 2 OF 7
C1.03	WATERLINE PLAN & PROFILE SHEET 3 OF 7
C1.04	WATERLINE PLAN & PROFILE SHEET 4 OF 7
C1.05	WATERLINE PLAN & PROFILE SHEET 5 OF 7
C1.06	WATERLINE PLAN & PROFILE SHEET 6 OF 7
C1.07	WATERLINE PLAN & PROFILE SHEET 7 OF 7
CD1.00	CIVIL DETAILS SHEET 1 OF 3
CD1.01	CIVIL DETAILS SHEET 2 OF 3
CD1.02	CIVIL DETAILS SHEET 3 OF 3
EC1.01	SEDIMENT & EROSION CONTROL PLAN SHEET 1 OF 4
EC1.02	SEDIMENT & EROSION CONTROL PLAN SHEET 2 OF 4
EC1.03	SEDIMENT & EROSION CONTROL PLAN SHEET 3 OF 4
EC1.04	SEDIMENT & EROSION CONTROL PLAN SHEET 4 OF 4
EC1.05	SEDIMENT AND EROSION CONTROL DETAILS SHEET 1 OF 4
EC1.06	SEDIMENT AND EROSION CONTROL DETAILS SHEET 2 OF 4
EC1.07	SEDIMENT AND EROSION CONTROL DETAILS SHEET 3 OF 4
EC1.08	SEDIMENT AND EROSION CONTROL DETAILS SHEET 4 OF 4



Know what's below.  
Call before you dig.

NO.	DATE	REVISION	BY



JOB NO: 2023-1180-00  
DATE: MARCH 2025

**G0.00**

IFC  
MARCH 2025





3. SPECIAL CARE SHALL BE TAKEN TO ENSURE THAT EXISTING TREES TO BE SAVED REMAIN UNDAMAGED DURING CONSTRUCTION. REFERENCE LANDSCAPE AND LAND ALTERATION ORDINANCE. DEVELOPMENT SHALL COMPLY WITH THE TREE AND LANDSCAPE CODES AS SET FORTH IN THE LAND DEVELOPMENT CODE UNLESS PERMITTED OTHERWISE.
4. PRIOR TO BEGINNING WORK, THE CONTRACTOR SHALL EXPOSE ALL EXISTING UTILITIES TO BE EXTENDED OR CROSSED AND CONTACT THE ENGINEER FOR RESOLUTION OF ANY CONFLICTS BETWEEN FIELD CONDITIONS AND CONSTRUCTION DOCUMENTS.
5. DIGITAL OR ELECTRONIC REPRESENTATION OF THESE CONSTRUCTION PLANS DOES NOT CONSTITUTE A COORDINATE CONTROL MAP OR MATHEMATICALLY CONTROLLED INFORMATION FOR THE USE OF CONSTRUCTION. HOWEVER, IT IS THE RESPONSIBILITY OF THE CONTRACTOR AND/OR CONTRACTOR'S SURVEYOR TO ENSURE THAT ANY DIGITAL OR ELECTRONIC REPRESENTATION OF THESE PLANS IS IN COMPLETE CONFORMANCE WITH ALL OF THE NOTATIONS, SPECIFICATIONS, DETAILS AND OTHER DATA APPEARING ON OR AS MAY BE DERIVED FROM THESE CONSTRUCTION PLANS.
6. CONTRACTOR IS RESPONSIBLE FOR PREPARING AND IMPLEMENTING MAINTENANCE OF TRAFFIC PLANS AS REQUIRED.
7. CONTRACTOR RESPONSIBLE FOR REPAIR AND REPLACEMENT OF INFRASTRUCTURE / FACILITIES WITHIN THE RIGHT-OF-WAY THAT ARE DAMAGED DURING CONSTRUCTION ACTIVITY.
8. CONTRACTOR SHALL CEASE WORK, ISSUE A STOP WORK ORDER, AND NOTIFY REQUIRED AGENCIES SHOULD ANY ARCHAEOLOGICAL MATERIALS OR HUMAN SKELETAL REMAINS BE ENCOUNTERED PRIOR TO OR DURING CONSTRUCTION ON THE PROJECT SITE.

### GENERAL INFORMATION:

843-824-2200

### **CITY OF GOOSE CREEK WATER NOTES:**

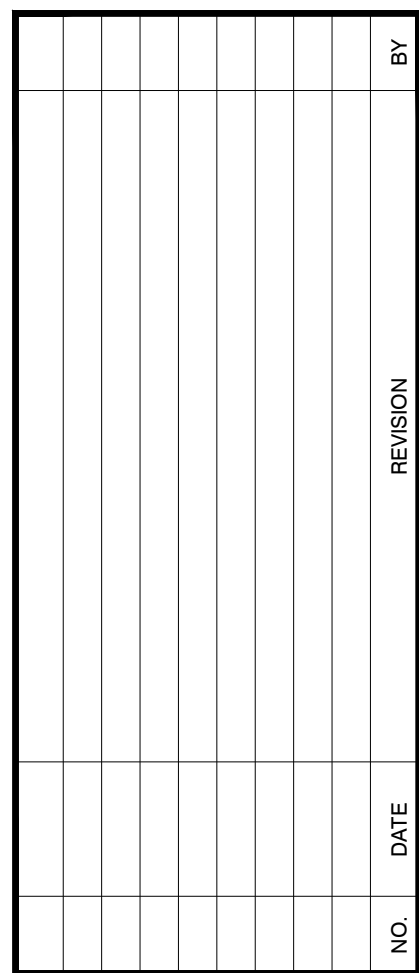
- WATER INSTALLATION SHALL BE IN ACCORDANCE WITH "TEN STATE STANDARDS," S.C.D.H.E.C., AND GOOSE CREEK DEPARTMENT OF PUBLIC WORKS (GCDPW) REQUIREMENTS.
- CONTRACTOR SHALL BE FAMILIAR WITH ALL REQUIREMENTS OF THE GCDPW AND SHALL NOTIFY GCDPW PRIOR TO BEGINNING CONSTRUCTION AND SCHEDULE ALL INSPECTIONS 72 HOURS IN ADVANCE.
- RADIUS (DEFLECT) WATER LINES IN LIEU OF FITTINGS IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS. DEFLECTION  
  
NOT TO EXCEED 75% OF MANUFACTURER'S RECOMMENDATION.
- ALL WATER LINES SHALL HAVE A MINIMUM DIAMETER OF 4", A MINIMUM COVER OF 36" AND A MAXIMUM COVER OF 48". ALL UTILITY CROSSINGS, I.E. STORM DRAINAGE & SANITARY SEWER, SHALL HAVE A FULL SECTION OF D.I.P. CENTERED AT THE CROSSING IN ACCORDANCE WITH S.C.D.H.E.C. AND GCDPW REQUIREMENTS.
- ALL TEES, BENDS, PLUGS AND HYDRANTS ON LINES 3 INCHES INSIDE DIAMETER OR LARGER SHALL BE PROVIDED WITH THRUST BLOCKING, TIE RODS, OR OTHER APPROVED METHOD OF RESTRAINT PER GCDPW.
- THE CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION OF ALL EXISTING UTILITIES PRIOR TO BEGINNING WORK.
- ALL WATER LINES UNDER TRAFFIC AREAS SHALL BE:
  - A. DUCTILE IRON WITH FIELD LOCK GASKETS POLYWRAPPED TO GCDPW SPECIFICATIONS OR
  - B. DUCTILE IRON IN A STEEL CASING WITH CASING SPACERS.  
THE STEEL CASING OR D.I.P. SHALL EXTEND A MINIMUM OF 3 LF BEYOND THE BACK OF CURB.
- UPON COMPLETION OF CONSTRUCTION OF THE WATER SYSTEM, THE APPROVAL PROCEDURE SHALL BE AS FOLLOWS:
  - A. A PRESSURE TEST IN ACCORDANCE WITH GCDPW REQUIREMENTS WILL BE SCHEDULED BY THE ENGINEER AND WITNESSED BY GCDPW AND THE ENGINEER.
  - B. AFTER A PASSING PRESSURE TEST, THE CONTRACTOR SHALL TAKE REQUIRED SAMPLES FOR BACTERIAL TESTING.
  - C. A COMPLETE WATER SYSTEM AS-BUILT DRAWING IN A FORMAT ACCEPTABLE TO GCDPW SHALL BE PROVIDED FOR FINAL INSPECTION.
  - D. ANY DEFICIENCIES WILL BE CORRECTED BY THE CONTRACTOR AND FINAL INSPECTION RESCHEDULED.
- ALL VALVES AND FIRE HYDRANTS SHALL OPEN COUNTER-CLOCKWISE AS PER GCDPW REQUIREMENTS.
- UNDER NO CIRCUMSTANCES SHALL VALVES OR FIRE HYDRANTS BE PLACED IN SIDEWALKS, CURB AND GUTTER OR ROADWAYS WITHOUT SPECIFIC WRITTEN APPROVAL FROM GCDPW.
- FIRE HYDRANTS SHALL BE PLACED AS FAR AS PRACTICAL FROM THE ROADWAY (SEE DETAIL).







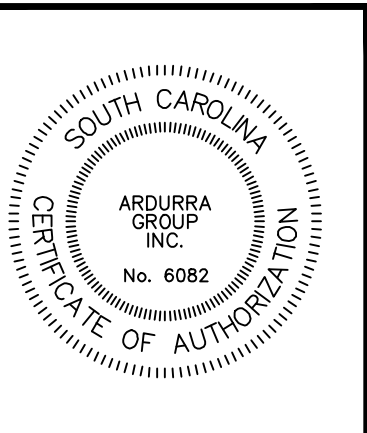
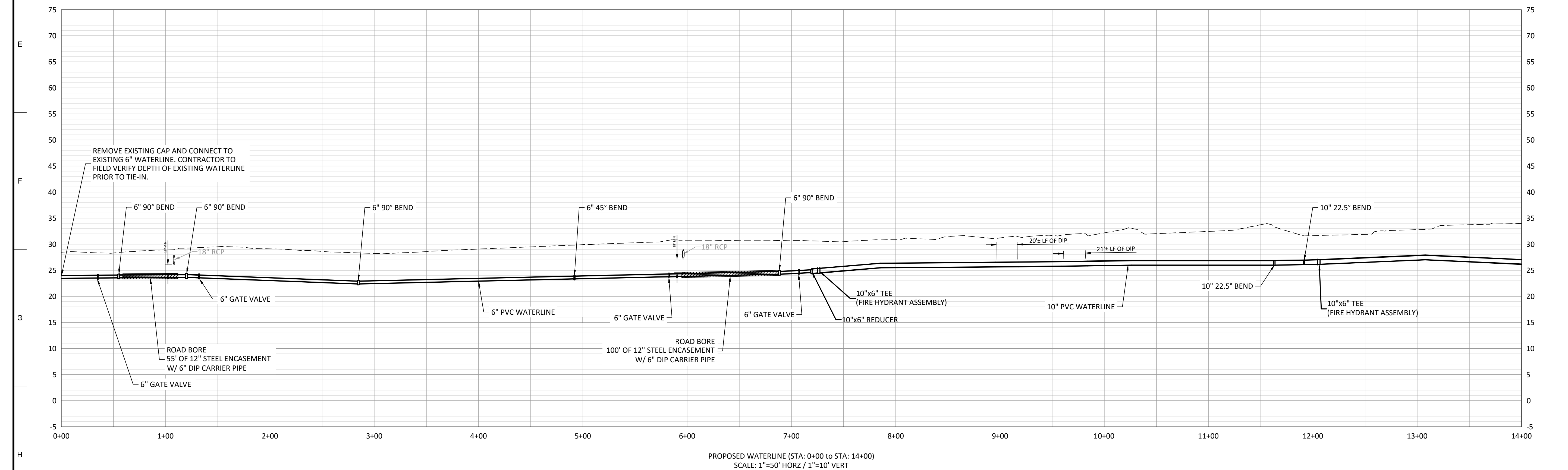
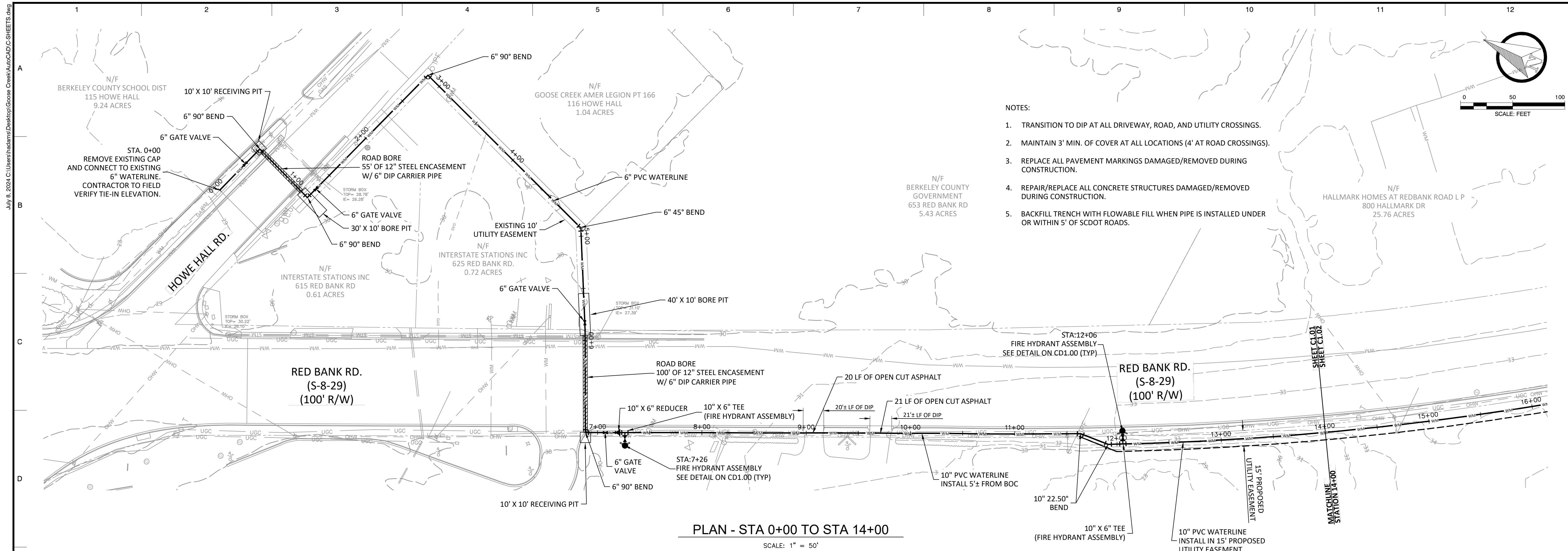




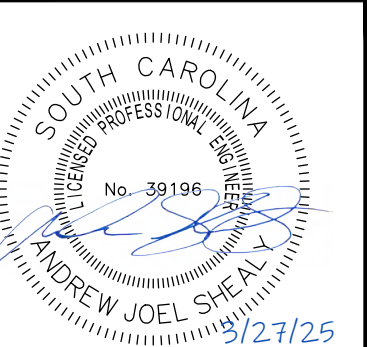
C1.00

IFC  
MARCH 2025



[illegible]

WATERLINE PLAN & PROFILE  
SHEET 1 OF 7

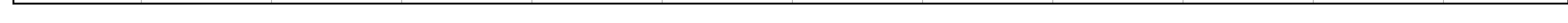
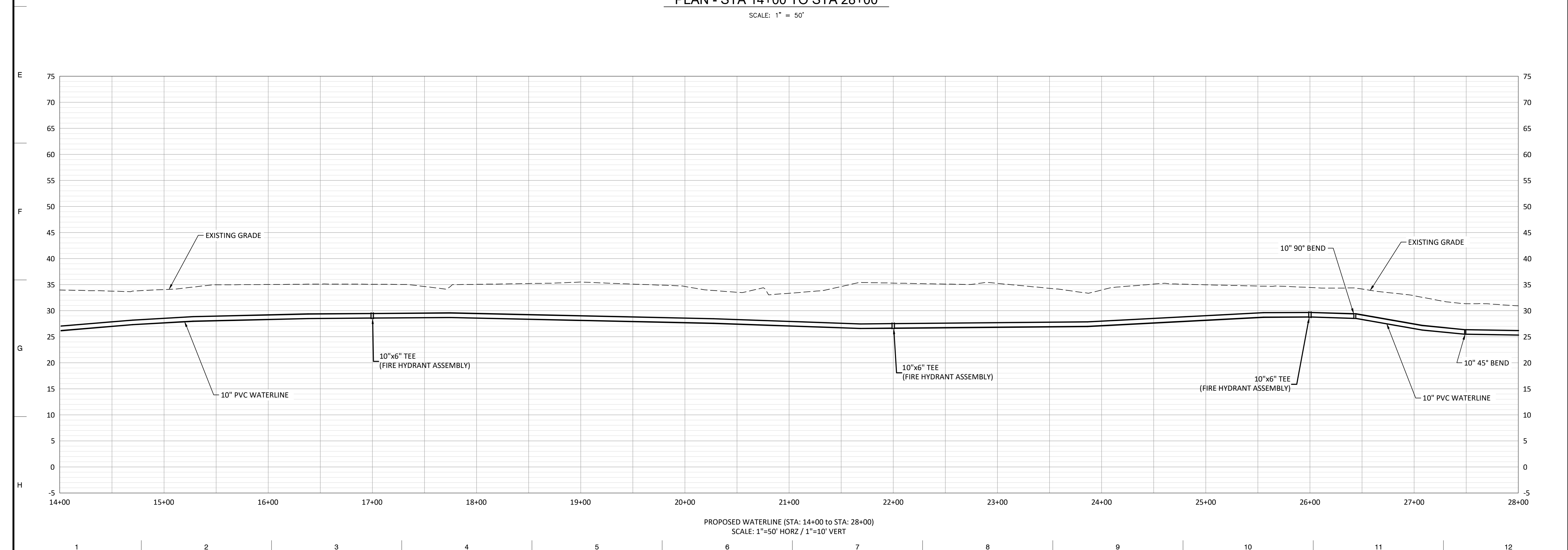


JOB NO:	2023-1180-00
DATE:	MARCH 2025

## C1.01

IFC  
MARCH 2025

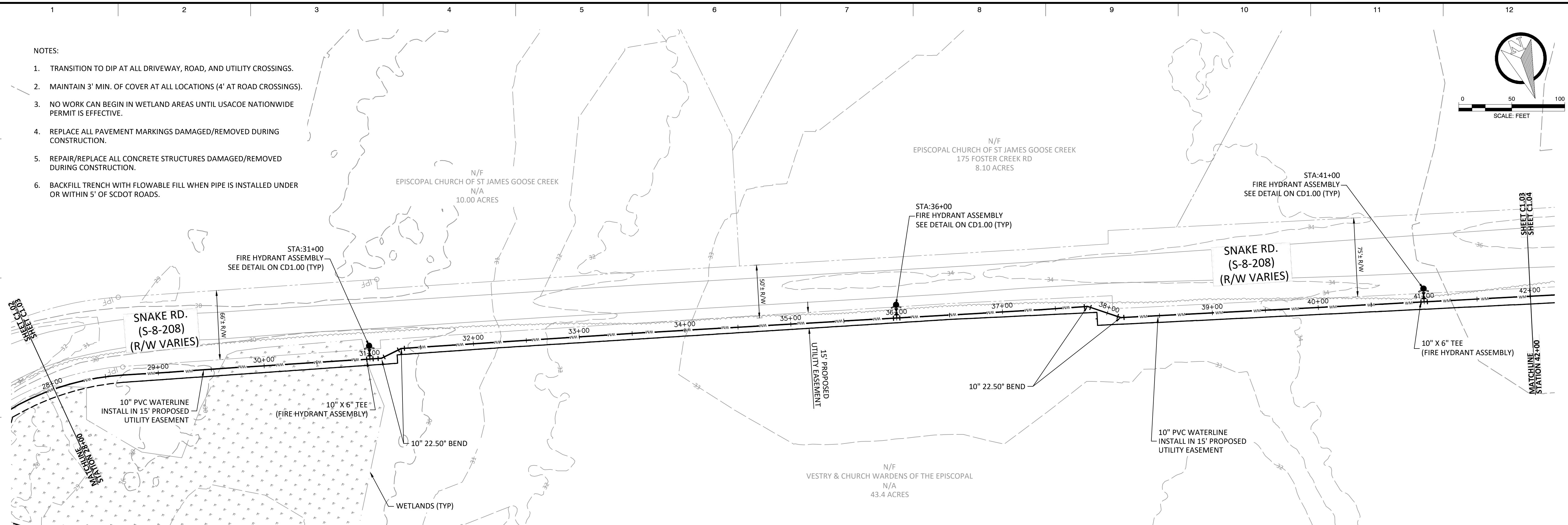






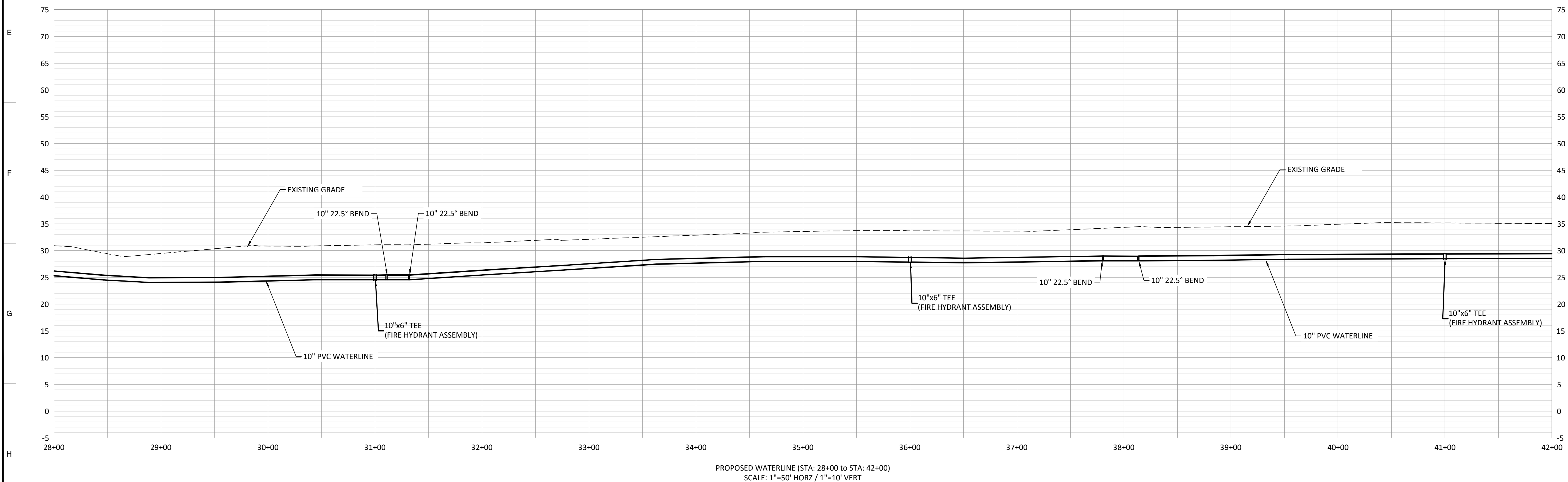
July 8, 2024 C:\Users\hadams\Desktop\Goose Creek\AutoCAD\C-SHEETS.dwg

- NOTES:**
1. TRANSITION TO DIP AT ALL DRIVEWAY, ROAD, AND UTILITY CROSSINGS.
  2. MAINTAIN 3' MIN. OF COVER AT ALL LOCATIONS (4' AT ROAD CROSSINGS)
  3. NO WORK CAN BEGIN IN WETLAND AREAS UNTIL USACOE NATIONWIDE PERMIT IS EFFECTIVE.
  4. REPLACE ALL PAVEMENT MARKINGS DAMAGED/REMOVED DURING CONSTRUCTION.
  5. REPAIR/REPLACE ALL CONCRETE STRUCTURES DAMAGED/REMOVED DURING CONSTRUCTION.
  6. BACKFILL TRENCH WITH FLOWABLE FILL WHEN PIPE IS INSTALLED UNDER OR WITHIN 5' OF SCDOT ROADS.

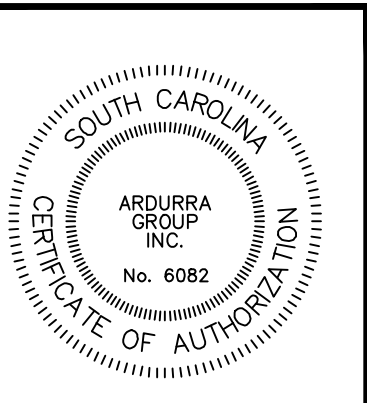


PLAN - STA 28+00 TO STA 42+00

SCALE: 1" = 50'

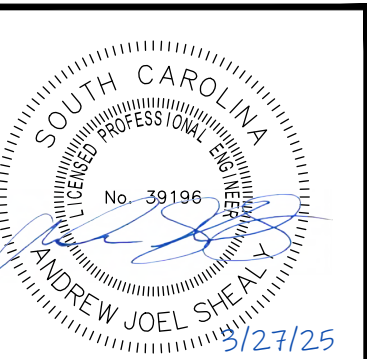


PROPOSED WATERLINE (STA: 28+00 to STA: 42+00)  
SCALE: 1"=50' HORZ / 1"=10' VERT

[illegible]

## WATER SYSTEM EXPANSION - SOUTH

WATERLINE PLAN & PROFILE  
SHEET 3 OF 7

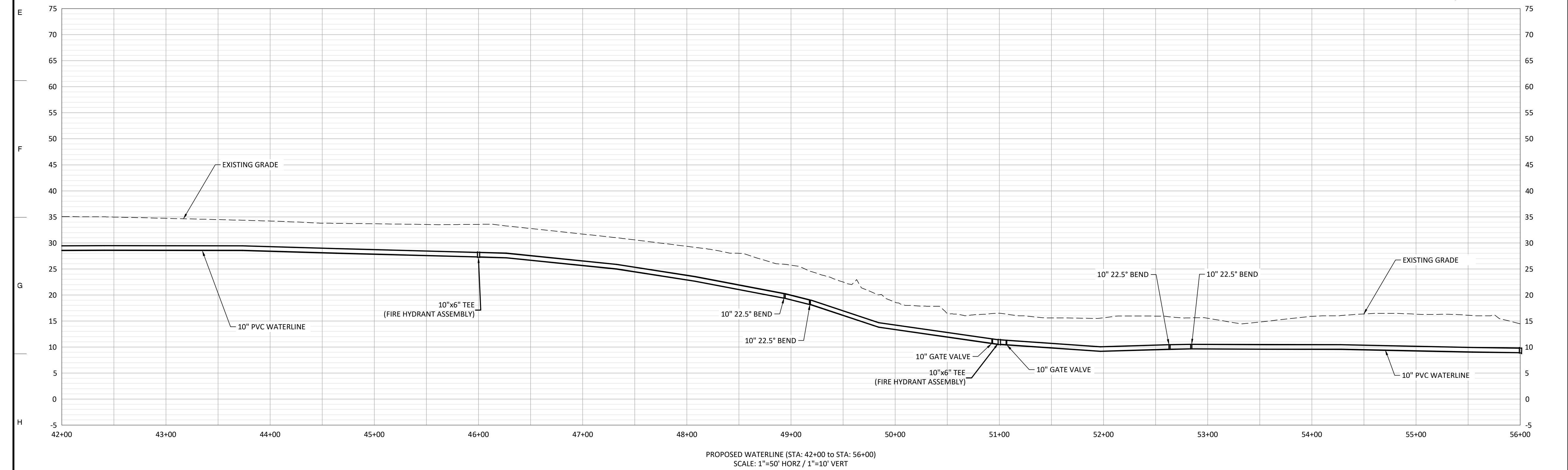


JOB NO:	2023-1180-00
DATE:	MARCH 2025

## C1.03

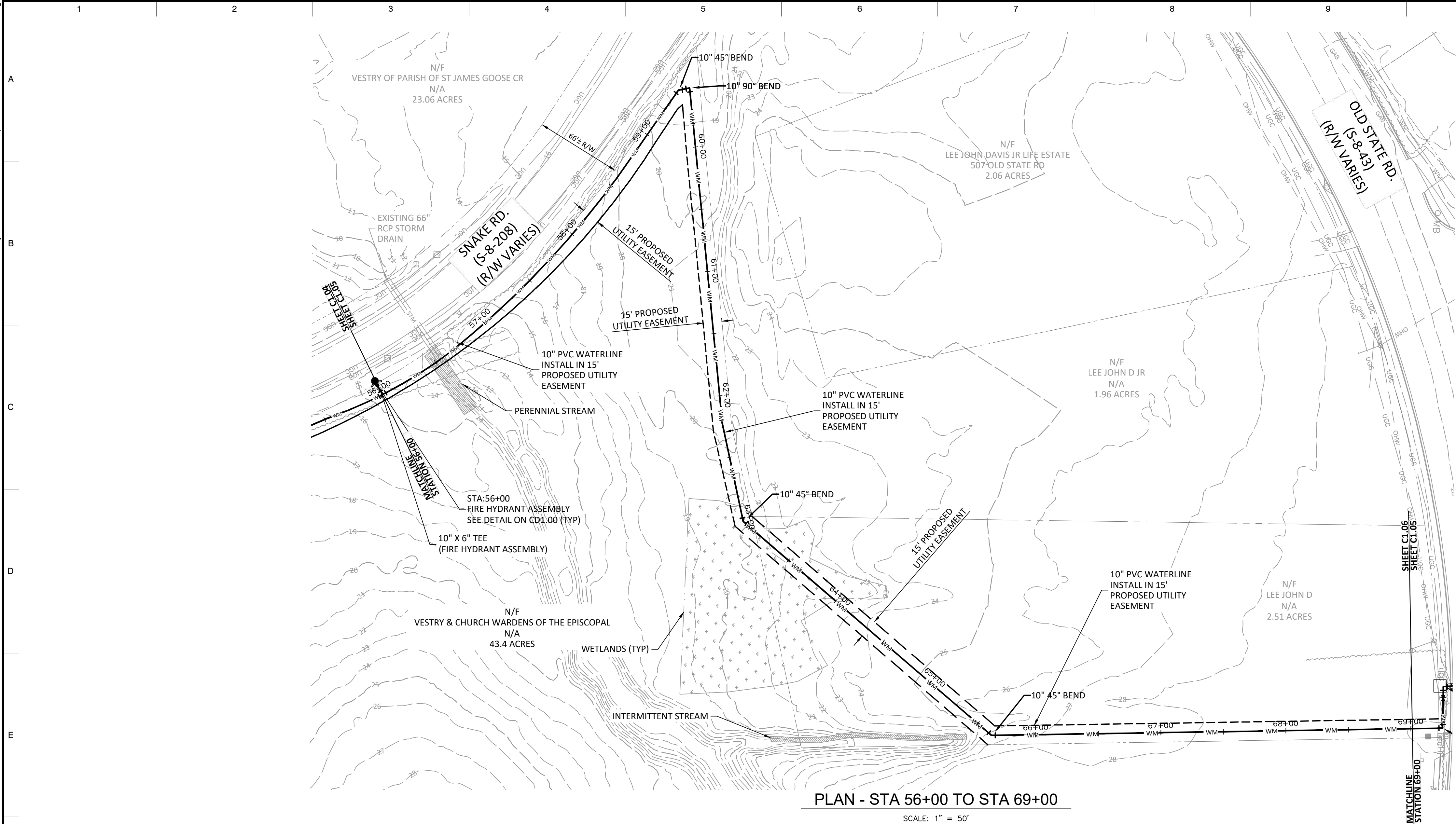
IFC  
MARCH 2025



[illegible]

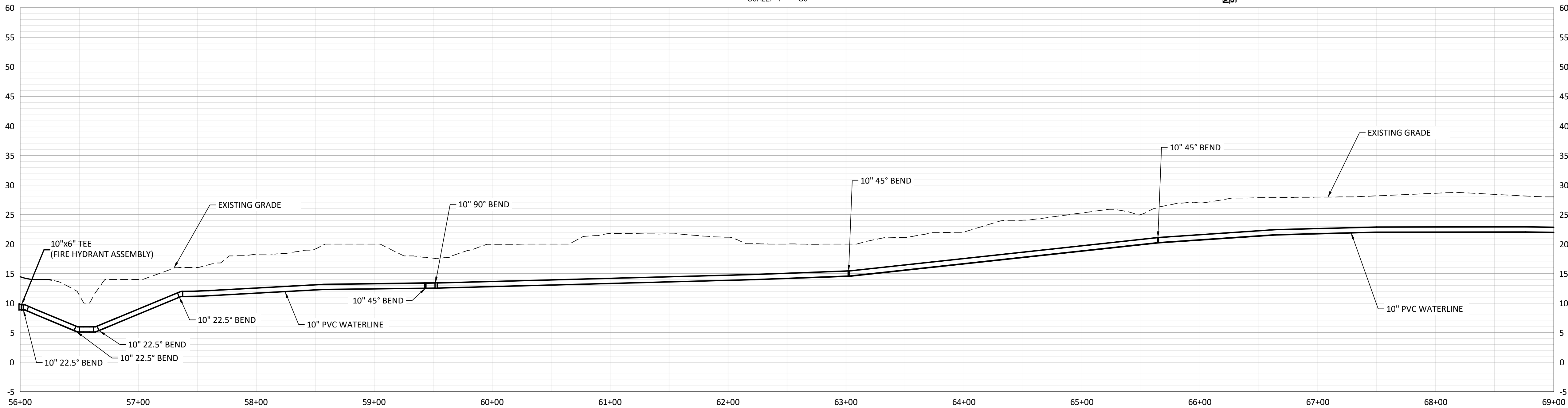


July 8, 2024 C:\Users\jhadams\Desktop\Goose Creek\AutoCAD\CD SHEETS.dwg

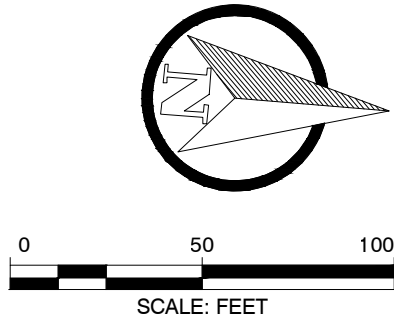


PLAN - STA 56+00 TO STA 69+00

SCALE: 1" = 50'

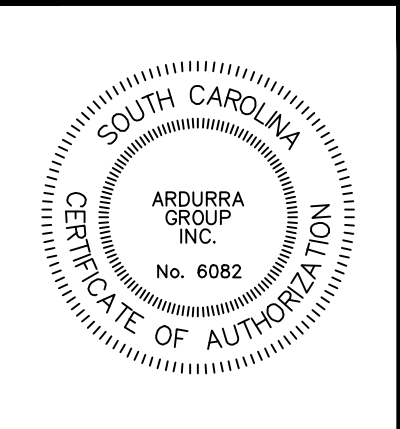


PROPOSED WATERLINE (STA: 56+00 to STA: 69+00)  
SCALE: 1"=50' HORZ / 1"=10' VERT



NOTES:

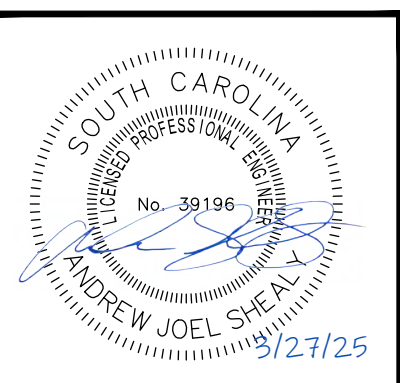
1. TRANSITION TO DIP AT ALL DRIVEWAY, ROAD, AND UTILITY CROSSINGS.
2. MAINTAIN 3' MIN. OF COVER AT ALL LOCATIONS (4' AT ROAD CROSSINGS).
3. NO WORK CAN BEGIN IN WETLAND AREAS UNTIL USACOE NATIONWIDE PERMIT IS EFFECTIVE.
4. REPLACE ALL PAVEMENT MARKINGS DAMAGED/REMOVED DURING CONSTRUCTION.
5. REPAIR/REPLACE ALL CONCRETE STRUCTURES DAMAGED/REMOVED DURING CONSTRUCTION.
6. BACKFILL TRENCH WITH FLOWABLE FILL WHEN PIPE IS INSTALLED UNDER OR WITHIN 5' OF SCDOT ROADS.



NO.		DATE	REVISION	BY

WATER SYSTEM EXPANSION - SOUTH

WATERLINE PLAN & PROFILE  
SHEET 5 OF 7

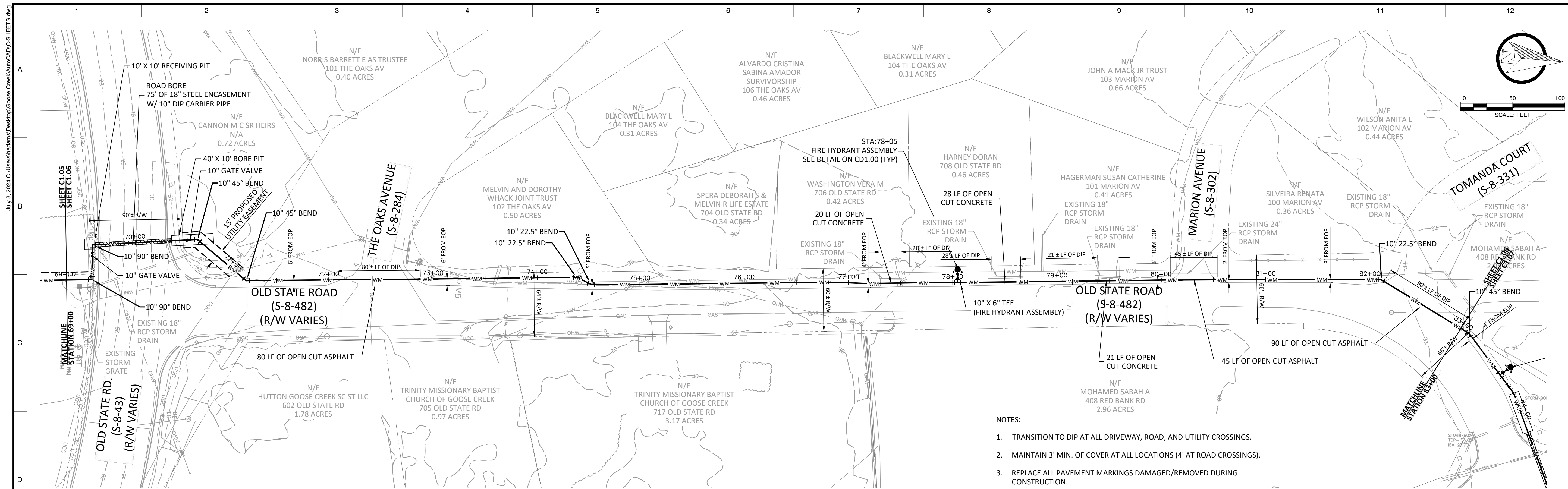


JOB NO:	2023-1180-00
DATE:	MARCH 2025

C1.05

IFC  
MARCH 2025



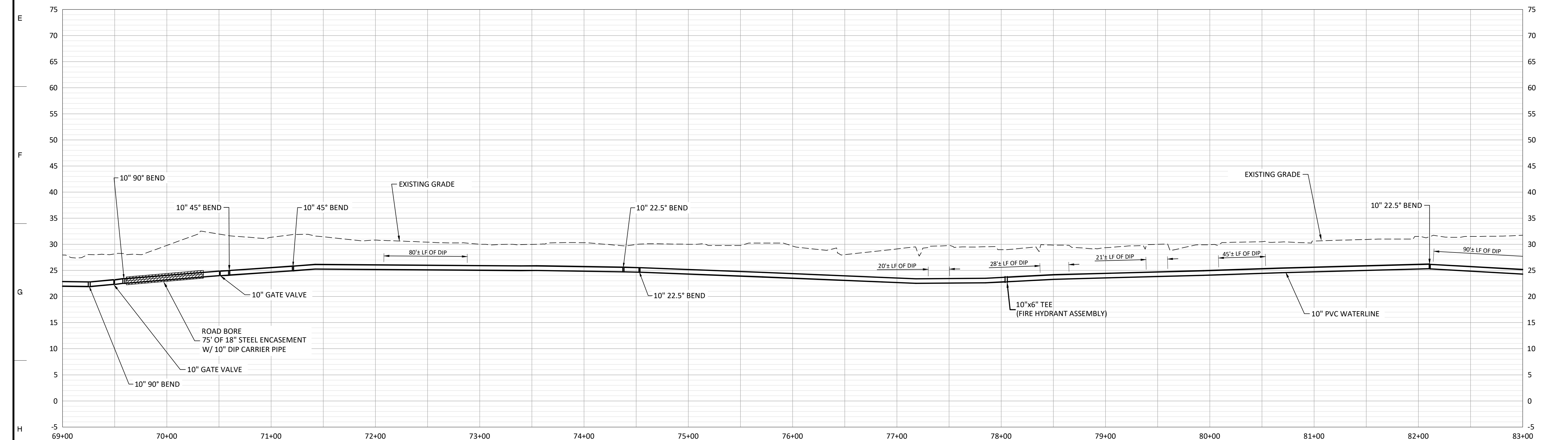


PLAN - STA 69+00 TO STA 83+00

SCALE: 1" = 50'

- NOTES:

1. TRANSITION TO DIP AT ALL DRIVEWAY, ROAD, AND UTILITY CROSSINGS.
2. MAINTAIN 3' MIN. OF COVER AT ALL LOCATIONS (4' AT ROAD CROSSINGS).
3. REPLACE ALL PAVEMENT MARKINGS DAMAGED/REMOVED DURING CONSTRUCTION.
4. REPAIR/REPLACE ALL CONCRETE STRUCTURES DAMAGED/REMOVED DURING CONSTRUCTION.
5. BACKFILL TRENCH WITH FLOWABLE FILL WHEN PIPE IS INSTALLED UNDER OR WITHIN 5' OF SCOT ROADS.

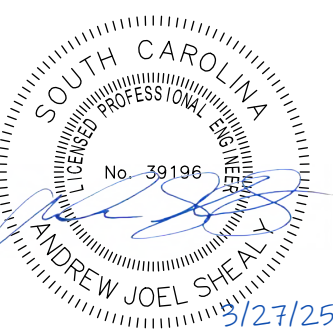


PROPOSED WATERLINE (STA: 69+00 to STA: 83+00)  
SCALE: 1"=50' HORZ / 1"=10' VERT

[illegible]

## WATER SYSTEM EXPANSION - SOUTH

WATERLINE PLAN & PROFILE  
SHEET 6 OF 7

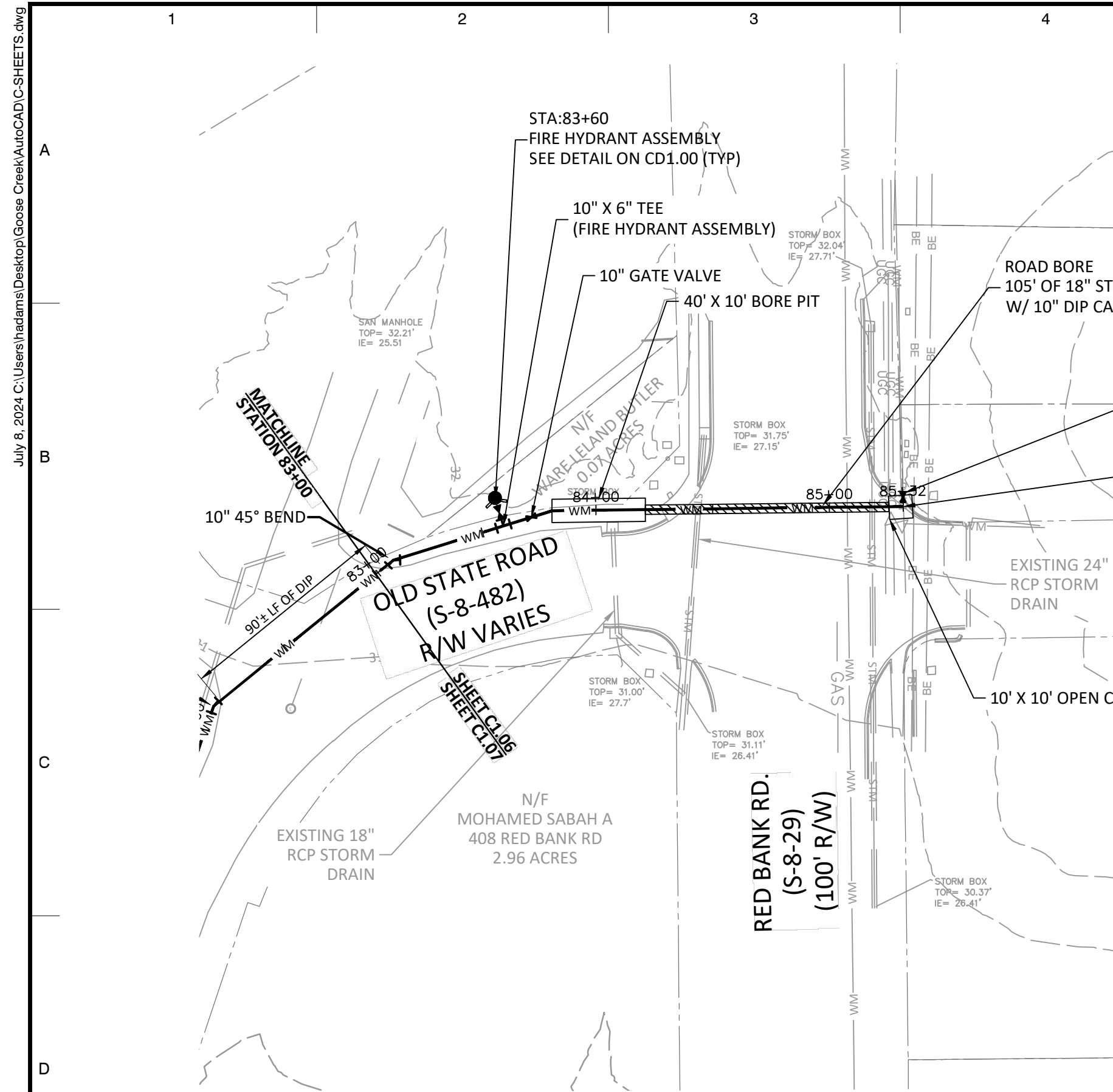


JOB NO:	2023-1180-00
DATE:	MARCH 2025

## C1.06

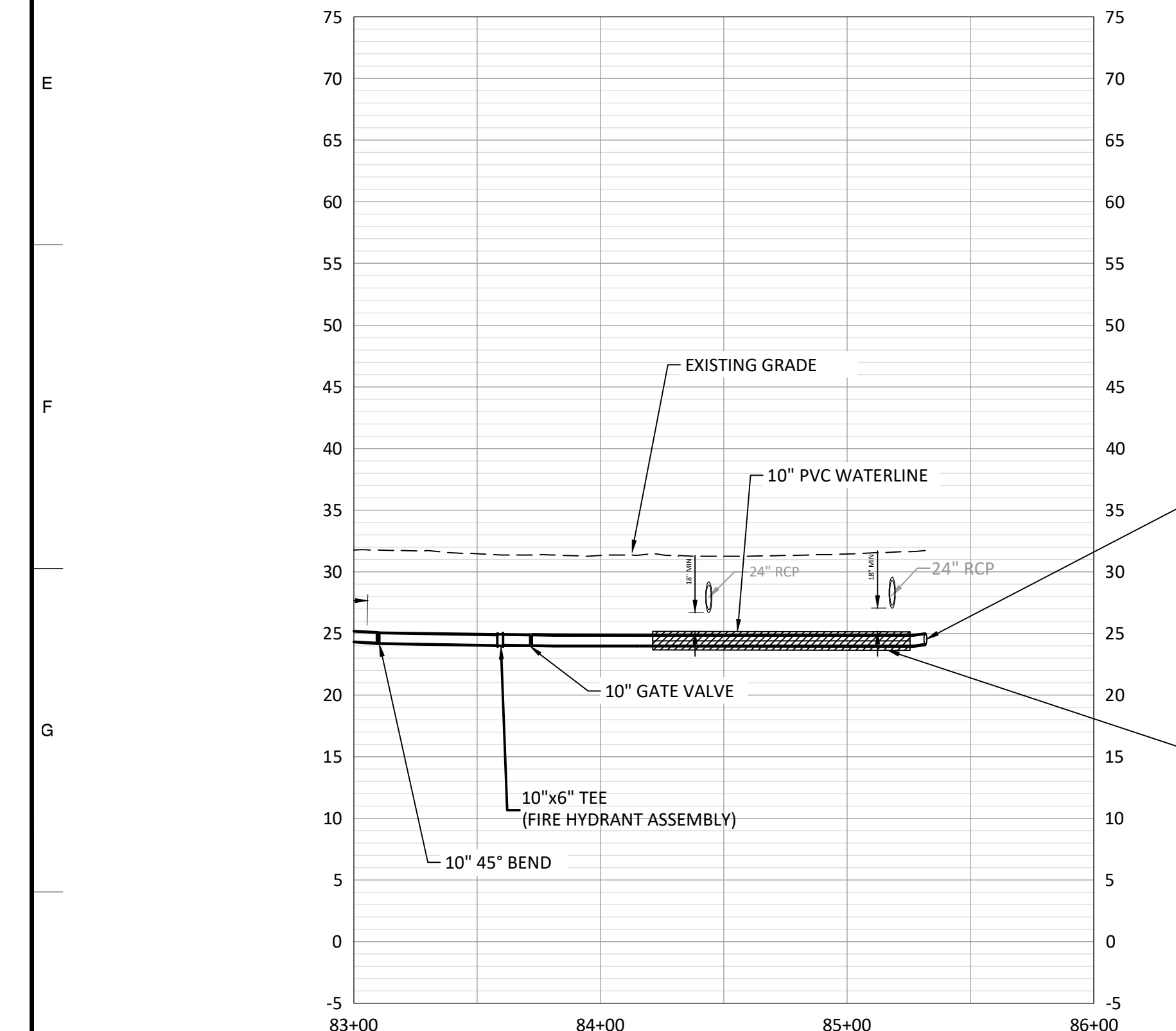
IFC  
MARCH 2025





PLAN - STA 83+00 TO STA 85+31

SCALE: 1" = 50'

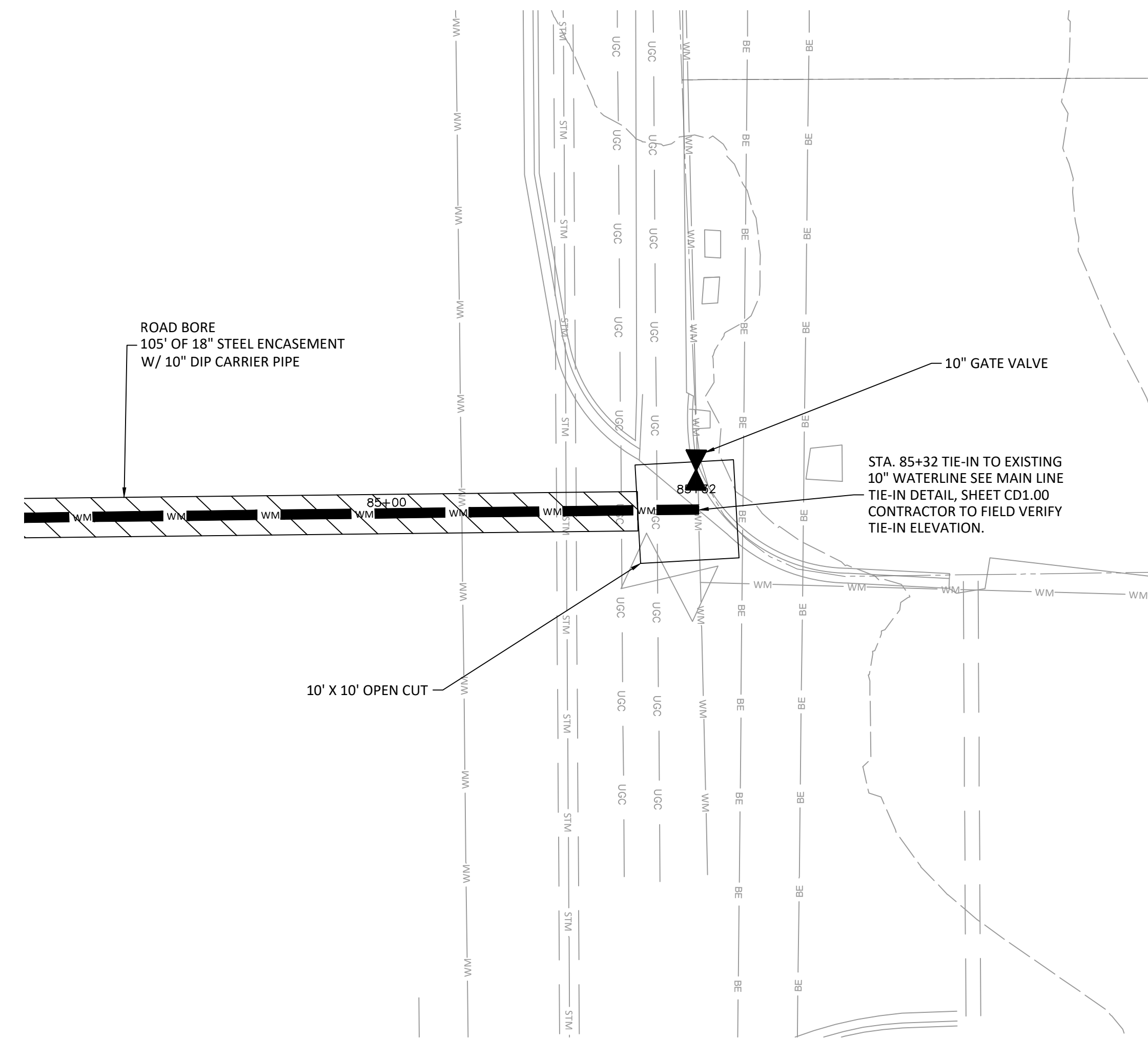


PROPOSED WATERLINE (STA: 83+00 to STA: 86+00)  
SCALE: 1"=50' HORZ / 1"=10' VERT

SCALE: 1"=50' HORZ / 1"=10' VERT

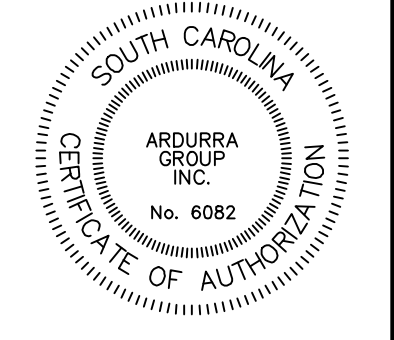
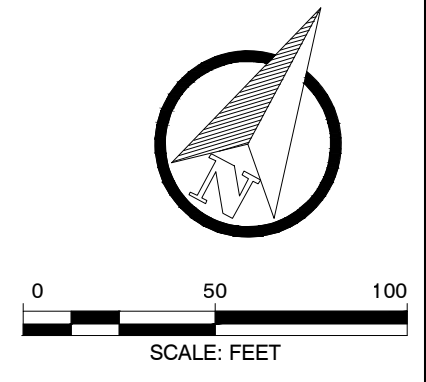
- NOTES:

1. TRANSITION TO DIP AT ALL DRIVEWAY, ROAD, AND UTILITY CROSSINGS.
2. MAINTAIN 3' MIN. OF COVER AT ALL LOCATIONS (4' AT ROAD CROSSINGS).
3. REPLACE ALL PAVEMENT MARKINGS DAMAGED/REMOVED DURING CONSTRUCTION.
4. REPAIR/REPLACE ALL CONCRETE STRUCTURES DAMAGED/REMOVED DURING CONSTRUCTION.
5. BACKFILL TRENCH WITH FLOWABLE FILL WHEN PIPE IS INSTALLED UNDER OR WITHIN 5' OF SCDOT ROADS.
6. CONTRACTOR TO CONTACT SCDOT BERKELEY OFFICE ((843) 761-8481) PRIOR TO CONSTRUCTION IF TRAFFIC LOOPS ARE ENCOUNTERED.



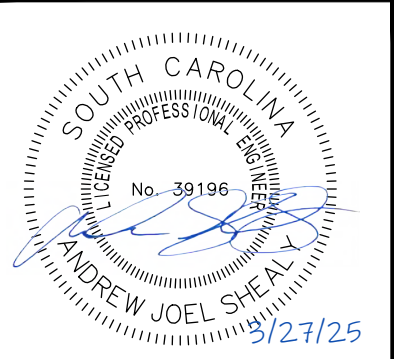
ENLARGED PLAN - WATERLINE TIE-IN

SCALE: 1" = 10'

[illegible]

## WATER SYSTEM EXPANSION - SOUTH

WATERLINE PLAN & PROFILE  
SHEET 7 OF 7



JOB NO:	2023-1180-00
DATE:	MARCH 2025

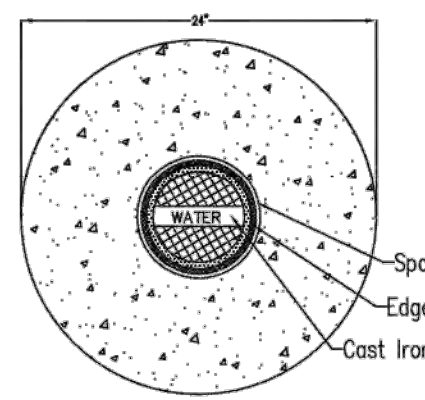
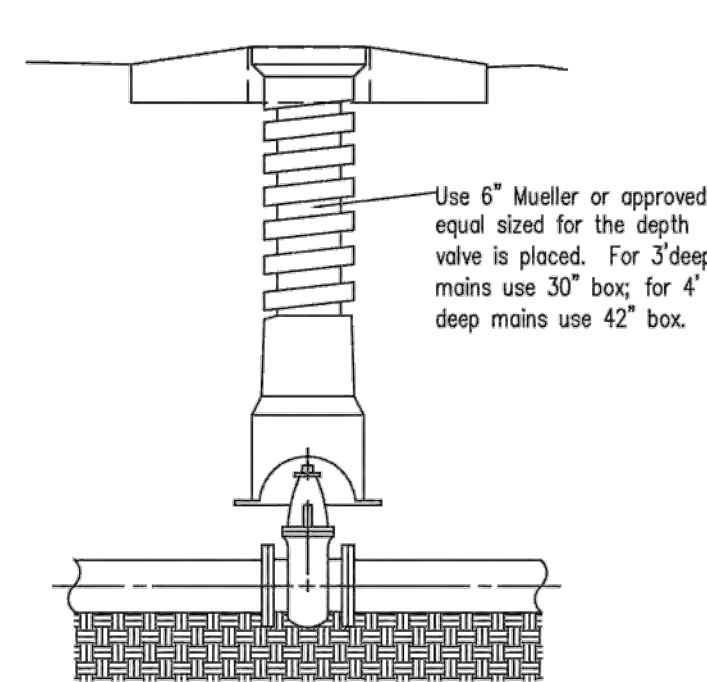
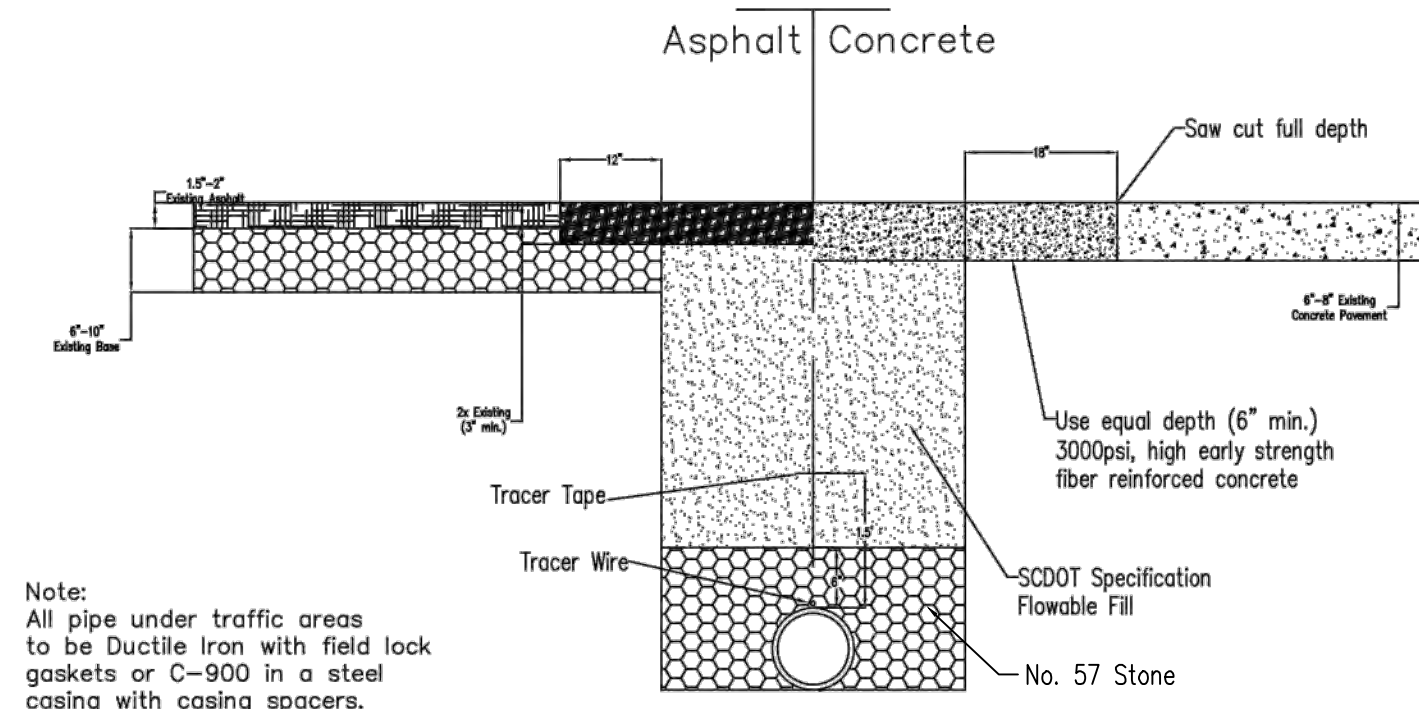
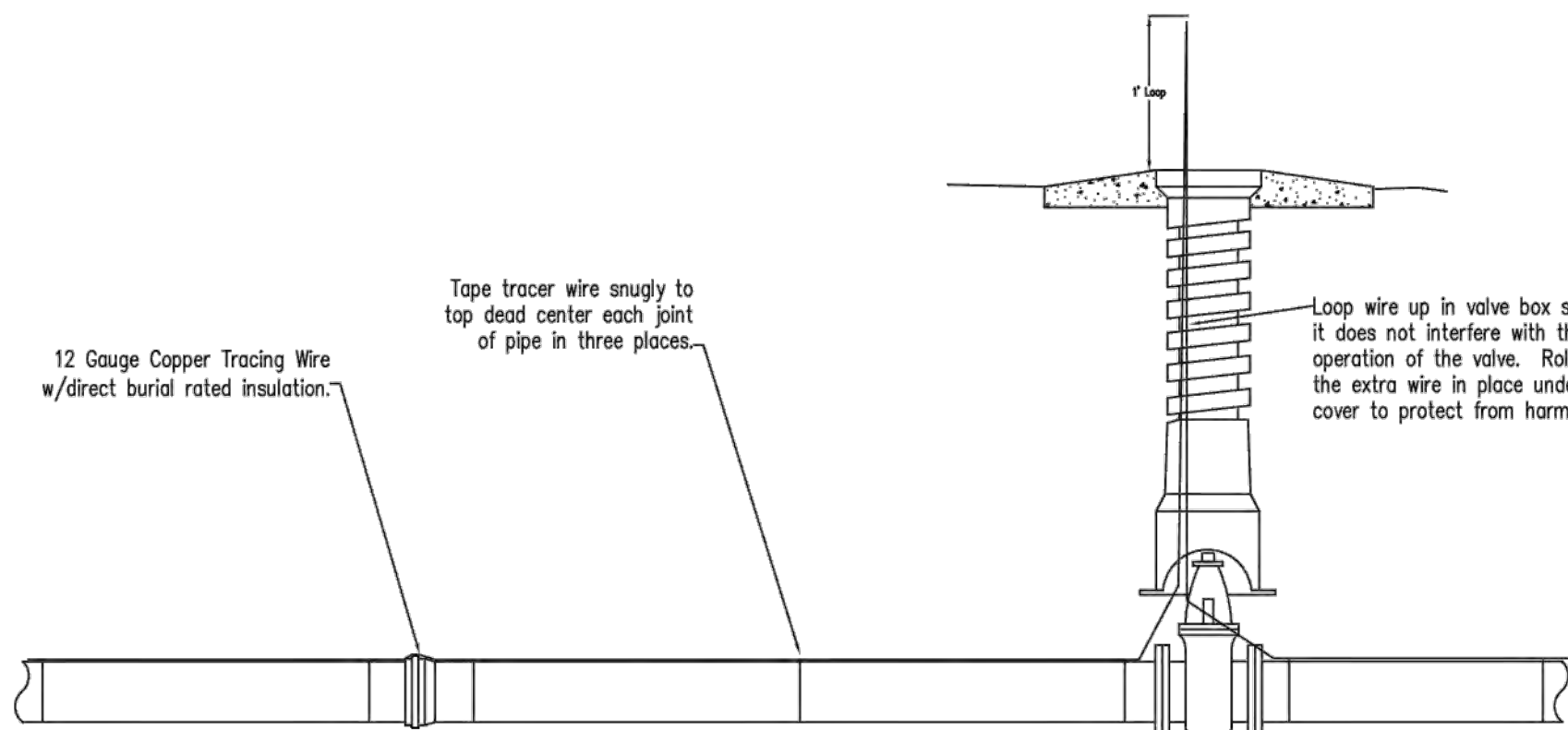
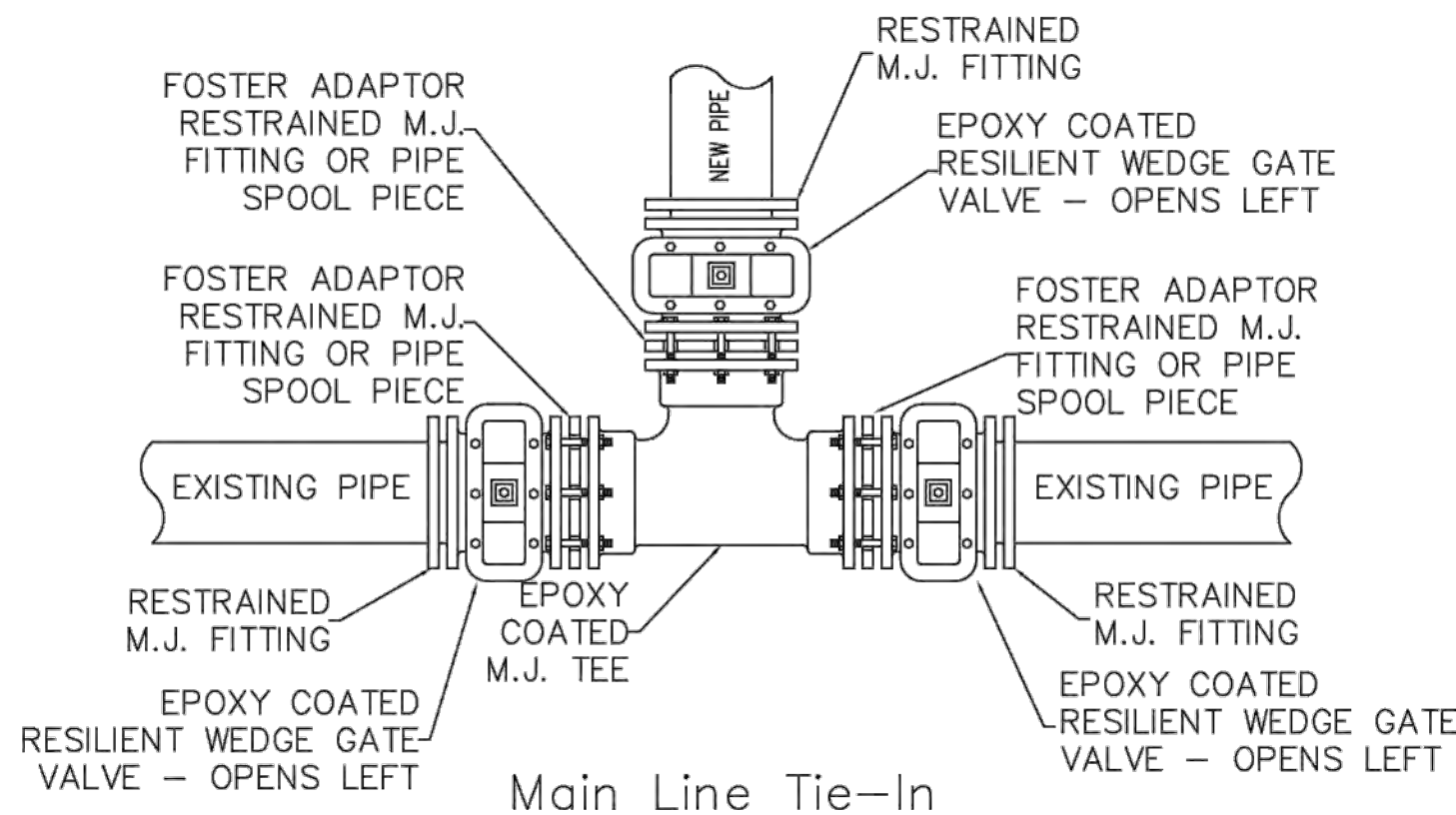
DATE: \_\_\_\_\_

## C1.07

IFC  
MARCH 2025

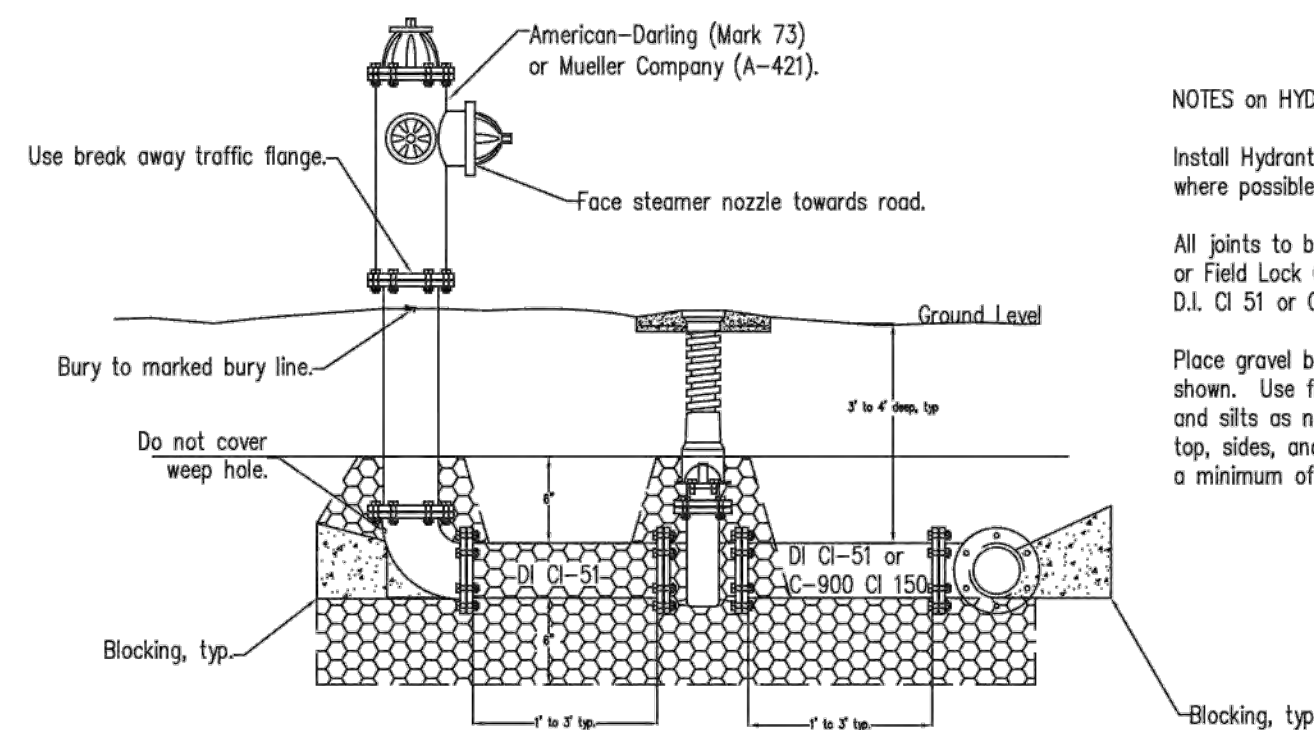
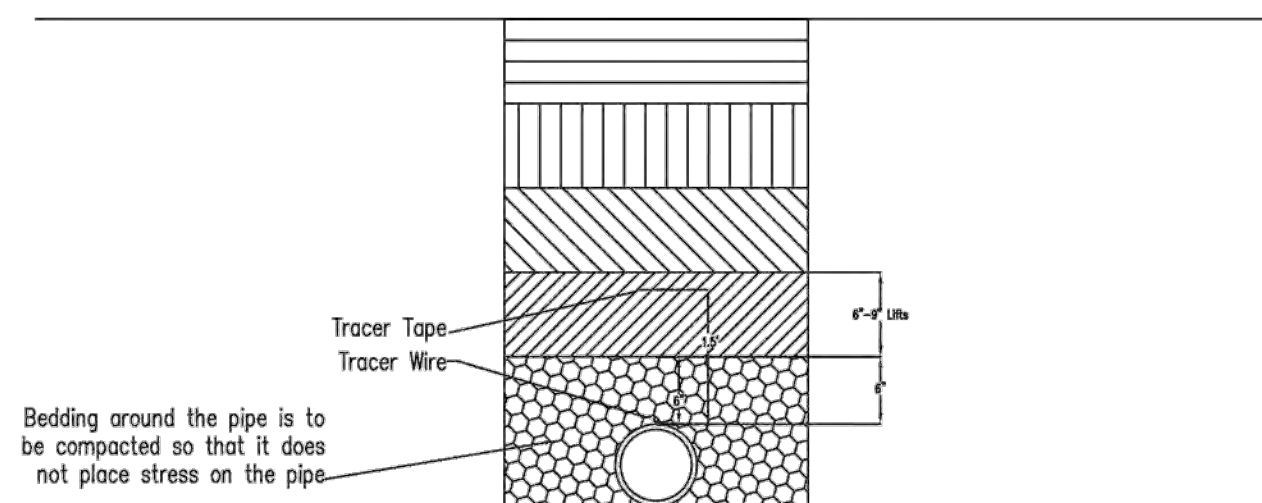
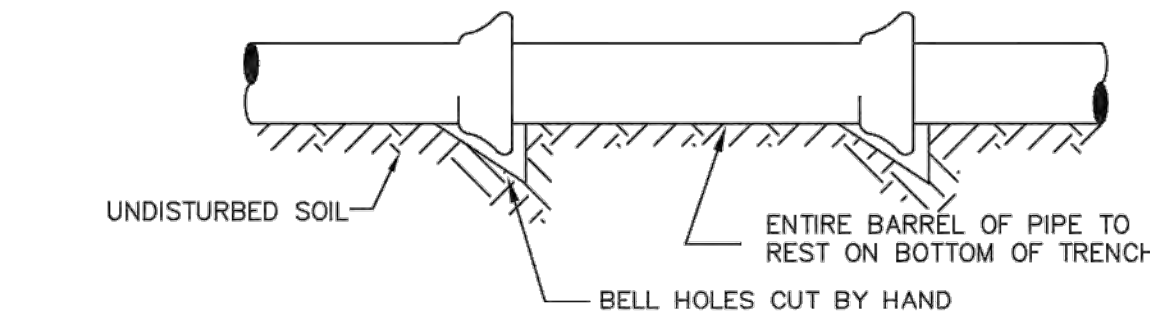
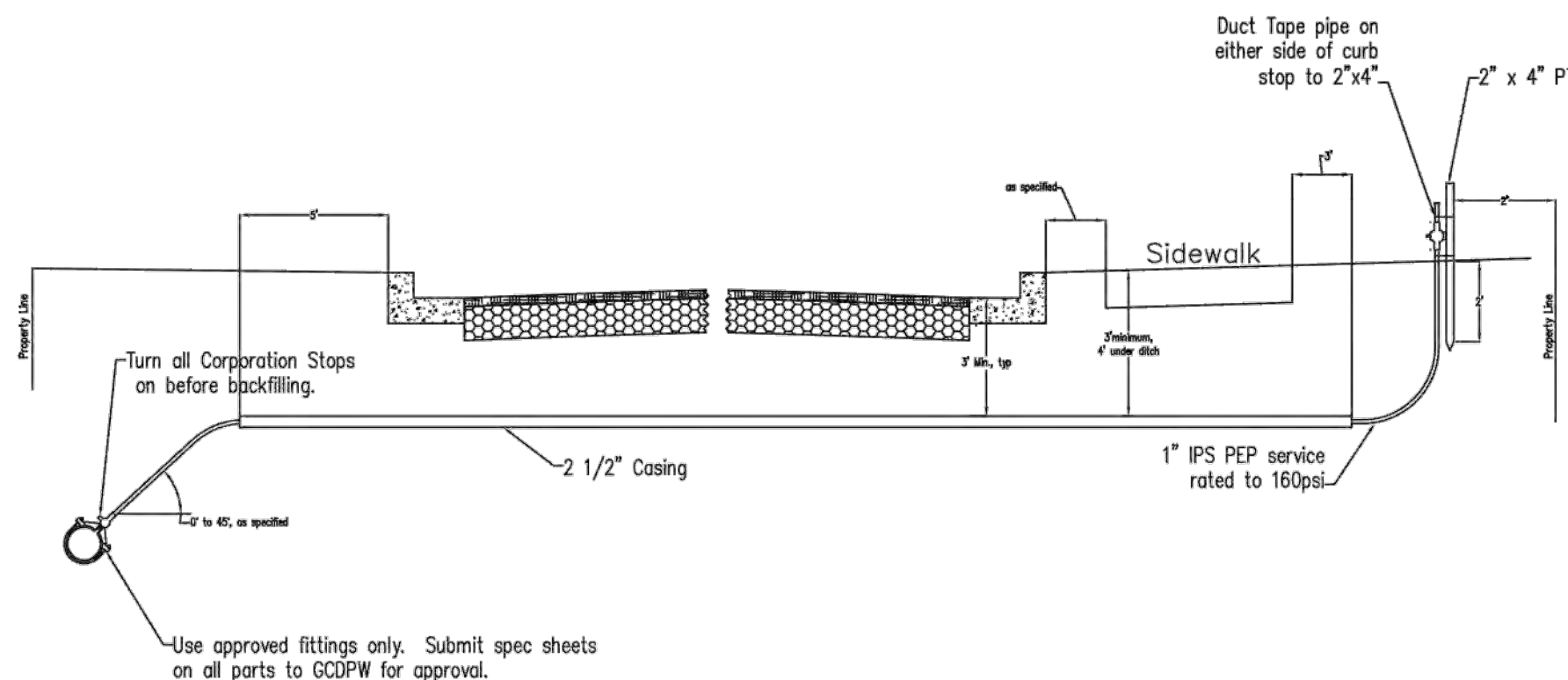


April 23, 2016 C:\Users\hadams\Desktop\Goose Creek\AutoCAD\CD SHEETS.dwg



NOTE: Place stem extension on valves over 6' deep to bring operating nut within 2' of ground. Place spacers on stem extension as needed.

Valve box cover, valve box frame and top of collar are to be flush. Place outer edge of collar flush with to 1" below ground.

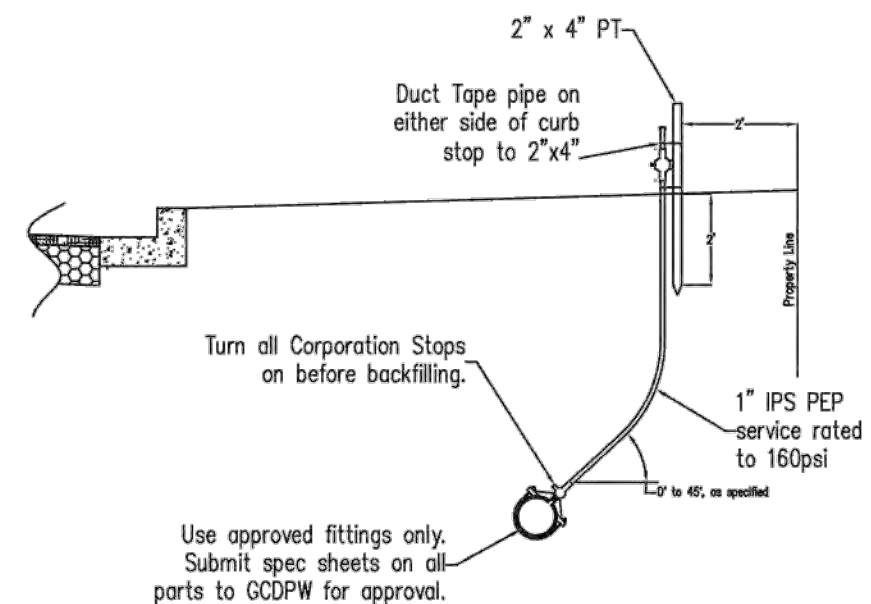
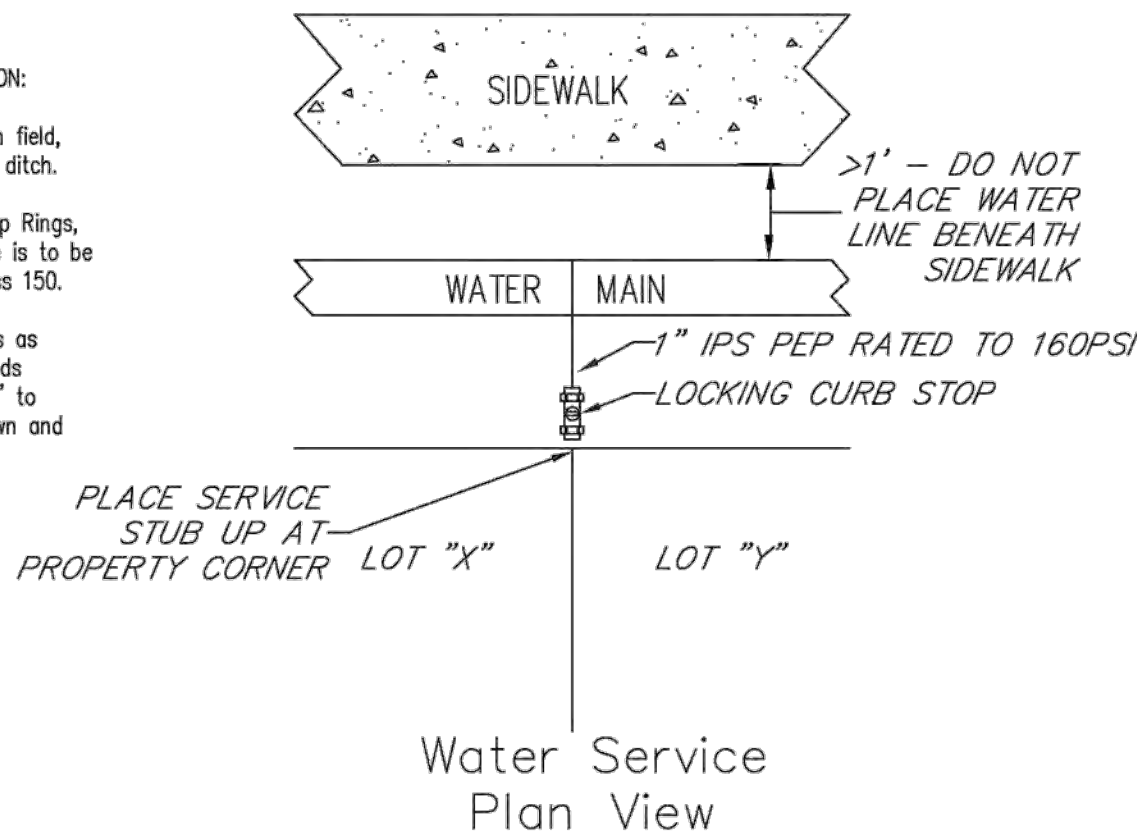


NOTES ON HYDRANT INSTALLATION:

Install Hydrants where staked in field, where possible on road side of ditch.

All joints to be Mega-Lugs, Grip Rings, or Field Lock Gaskets. All pipe is to be D.I. CI 51 or C-900 P.V.C. Class 150.

Place gravel bed around fittings as shown. Use filter fabric in sands and silts as needed. Bed is 6" to top, sides, and bottom as shown and a minimum of 30% void space.



#### Water Mains

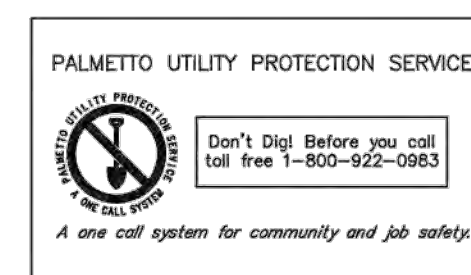
1. Pipe: All water mains to be new AWWA C-900 Class 150 PVC or Class 50 Ductile Iron.
2. Valves: Use Resilient Wedge Gate Valves epoxy coated inside and outside.
3. Fittings: All fittings are to be Mechanical Joint with Grip Ring or Mega Lug.
4. Valve Boxes: Use adjustable screw type cast iron boxes set on Valve Box Adapters.
5. Tracer Wire: Use 12 gauge copper wire with direct burial U.L. listed insulation. Tape tracer wire to the top of pipe at center and near joints. Loop up 1' in valve boxes.
6. Underground Splices: Use 3M or equivalent resin filled splice lts to splice tracer wire.
7. Tie Ins: At the tie in points use a Mechanical Joint Connector on all three legs of the tee.
8. Valve Box Adapters: Use Adaptor, Inc. Adapter II between all valve boxes and valves.

#### Service Connections

1. Tapping Saddles: Use double U-bolt epoxy coated saddles (Mueller DE2A, Smith Blair 313 or equal).
2. Corporation Stop: Use Ford F1001-4 or approved equal.
3. Polyethylene Service: Use 1" IPS rated to 160psi (PE3406) to the curb stop.
4. Insert Stiffeners: All PEP will use an appropriate size insert stiffener at each pipe end.
5. Curb Stop: Use Ford B66-444 IPS Curb Stop on each stub-up, and lock out with wire seal.
6. Meter: Install GCDPW approved Radio Read AMR meter with electronic register. Contractor to provide all materials and labor for commercial installs.
7. Yoke Assembly: Contact GCDPW Water Department for latest parts list.
8. Meter Box: Appropriately sized fiber concrete meter box with traffic rated lid with penetration for radio read MXU on standard in ground meter boxes.
9. Backflow: Use Reduced Pressure, Watts or Equivalent, on commercial domestic taps. Use concrete slab, place RPPA lower port 12" above adjacent ground, with Hot Box or equivalent cover. Irrigation backflow use DCVA if approved, or as specified. DCVA to be placed in below ground box.

#### READ THESE THOROUGHLY

1. No trees, bushes or landscape plantings are to be removed, without written approval of the Owner.
2. All pipe fittings are to be inspected prior to backfill.
3. All disturbed areas of ground are to be sodded.
4. Immediately replace driveways with an approved temporary all weather surface.
5. The Contractor shall use silt fence between all disturbed areas and undisturbed areas.
6. Silt fence is to be checked weekly, or more often as needed, and shall be cleaned of any accumulated siltation as needed.
7. Where silt fence is not used or maintained, the contractor is responsible for cleaning all sediment from ditches at their own expense.



Main Line Tie-In

Pipe Tracer Wire

Pipe Trench Under or Within 5' of SCDOT Road

Valve Box Details

Far Side Service Line & Casing

Pipe Trench Not Under Pavement

Main Line and Water Service Parts

Fire Hydrant Details

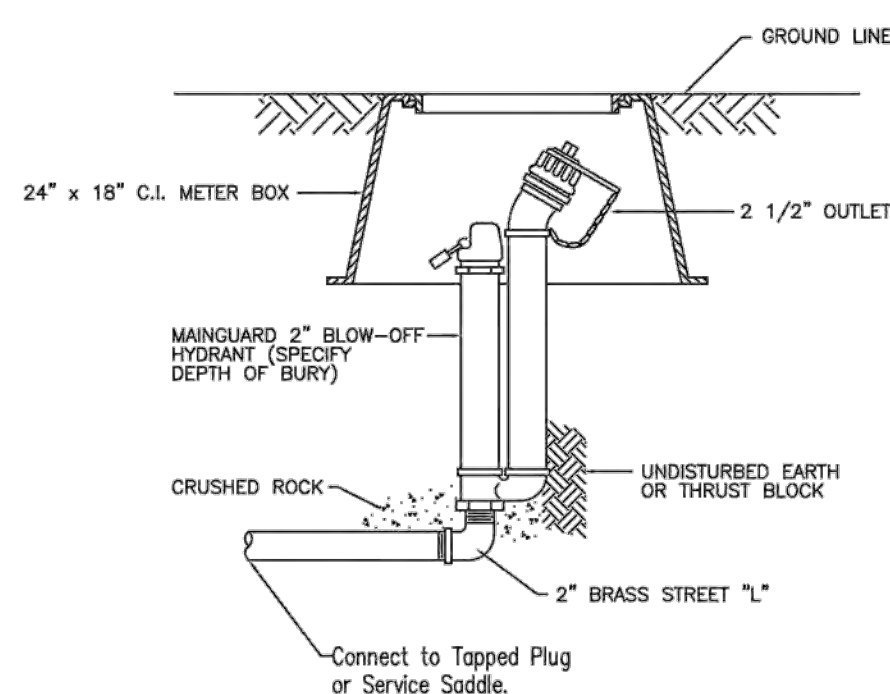
Water Service Plan View

Near Side Service Line

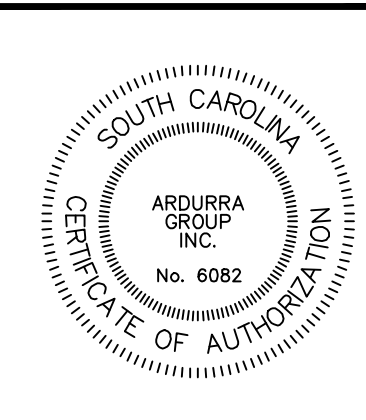
NOTE: All repair limits are to be verified with the Owner or Engineer PRIOR to making the repairs.

#### MAINGUARD NO. 78 BLOW-OFF HYDRANT

Blow-Off Hydrants shall be non-freezing, self draining type, with an overall length of 6" less than bury depth. Set underground in a 18" x 24" meter box, these hydrants will be furnished with a 2" FIP inlet, a non-turning operating rod, and shall open to the left. All of the working parts shall be of bronze-to-bronze design, and be serviceable from above grade with no digging. The outlet shall also be bronze and be 2-1/2" NST. Hydrants shall be lockable to prevent unauthorized use as manufactured by Kupferle Foundry Co., St. Louis, MO, or approved equal.



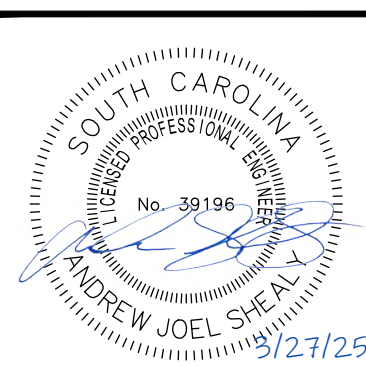
Dead End Blowoff



NO.	DATE	REVISION	BY

WATER SYSTEM EXPANSION - SOUTH

CIVIL DETAILS SHEET 1 OF 3

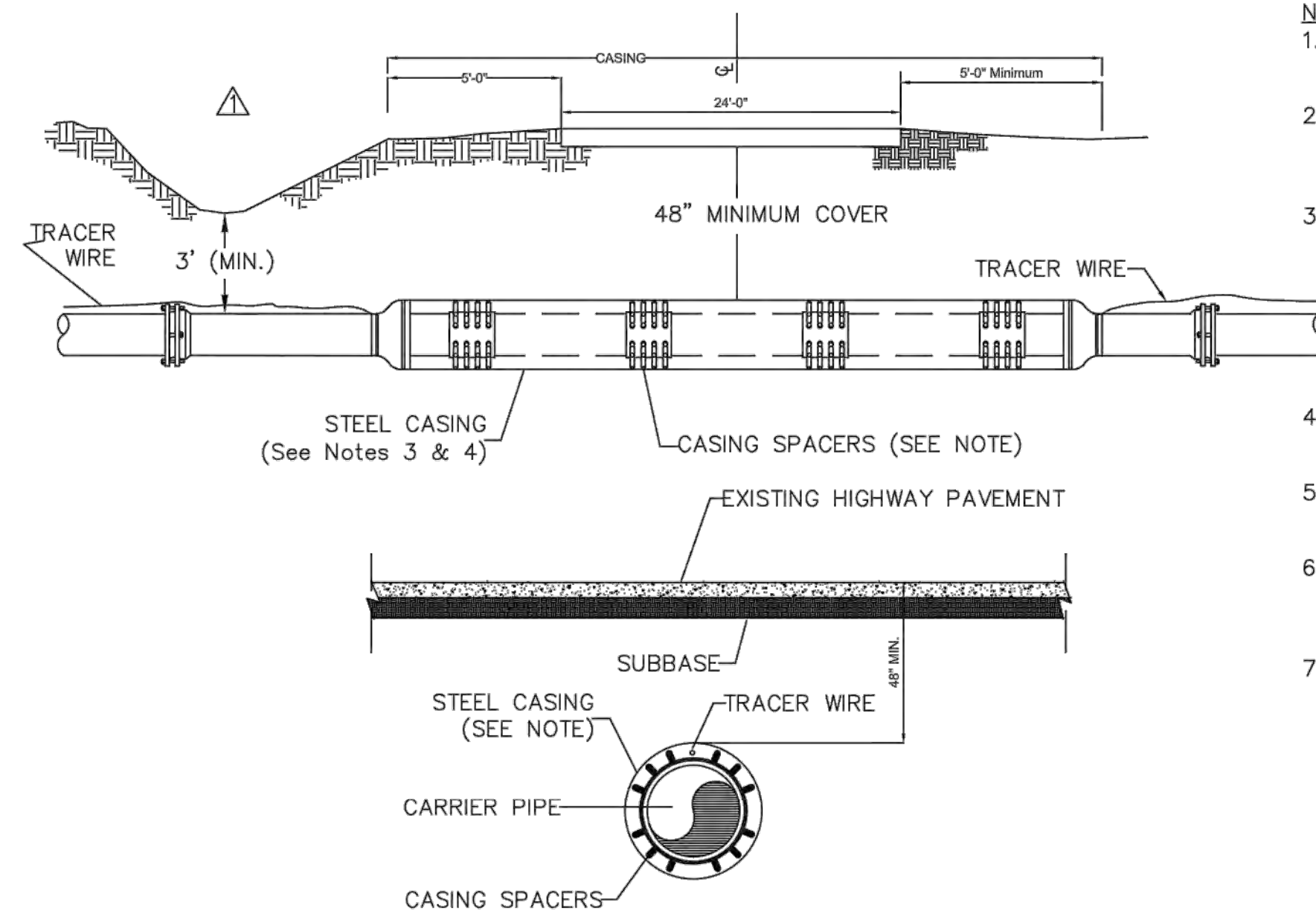


JOB NO: 2023-1180-00  
DATE: MARCH 2025

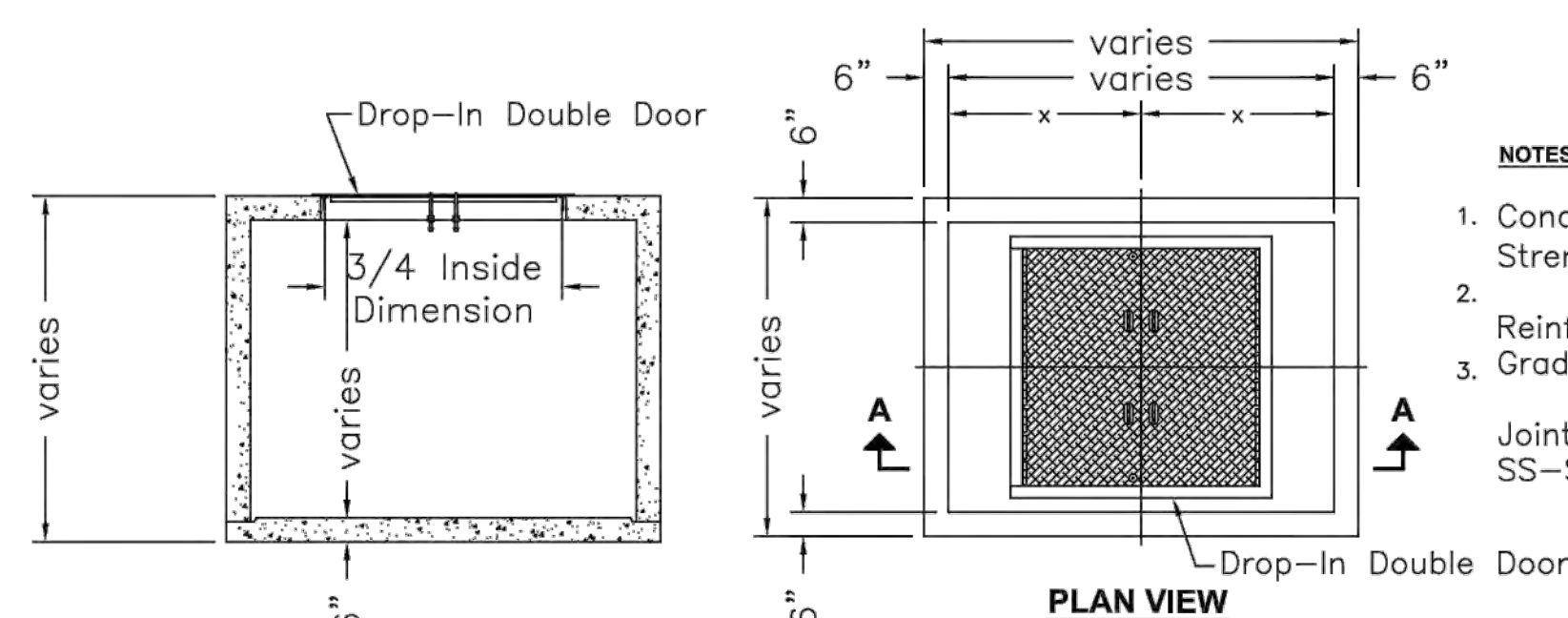
CD1.00

IFC  
MARCH 2025

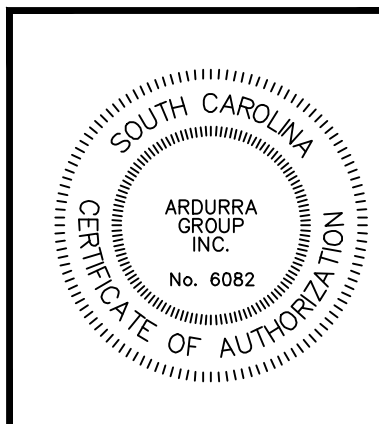
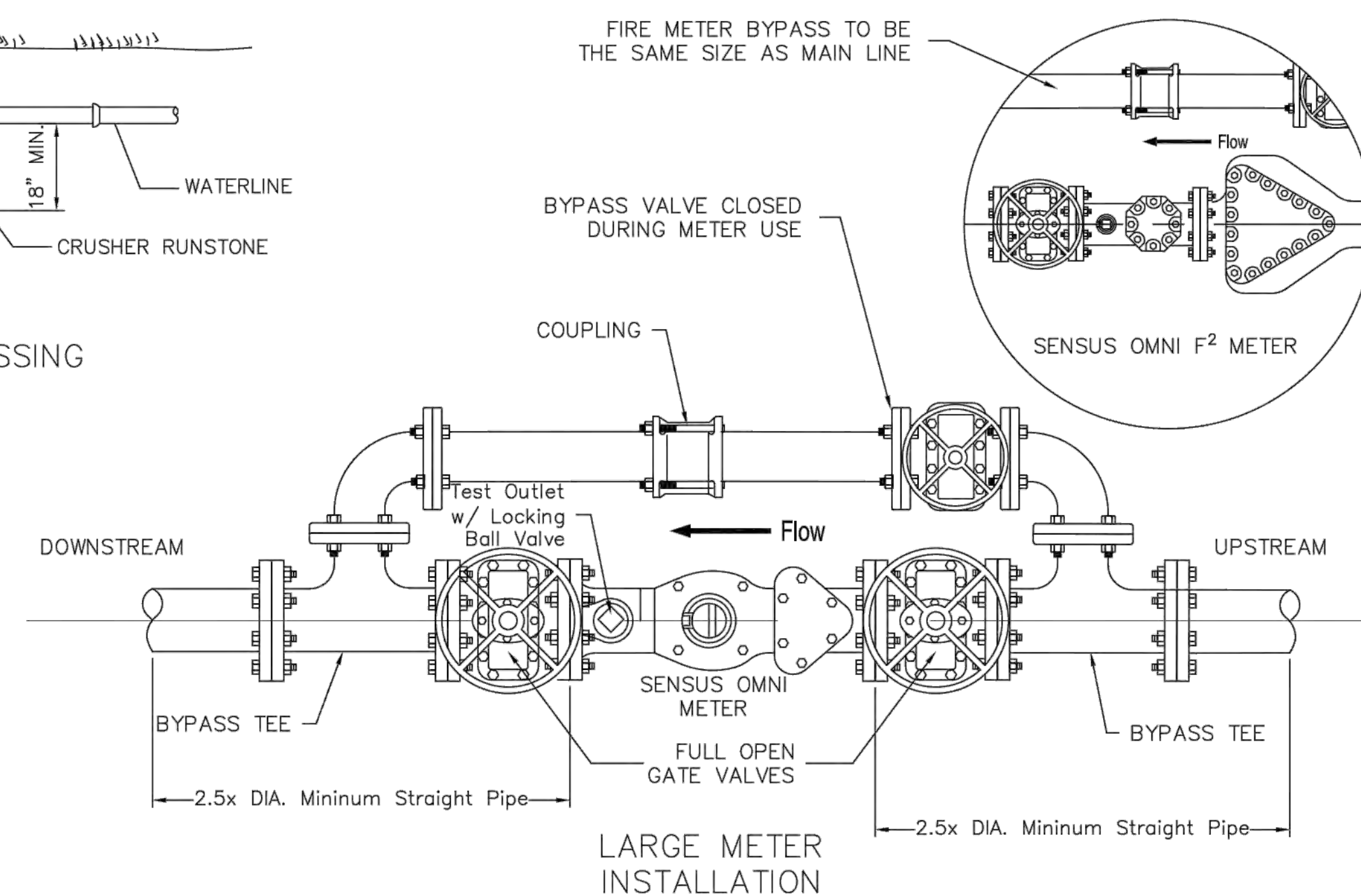
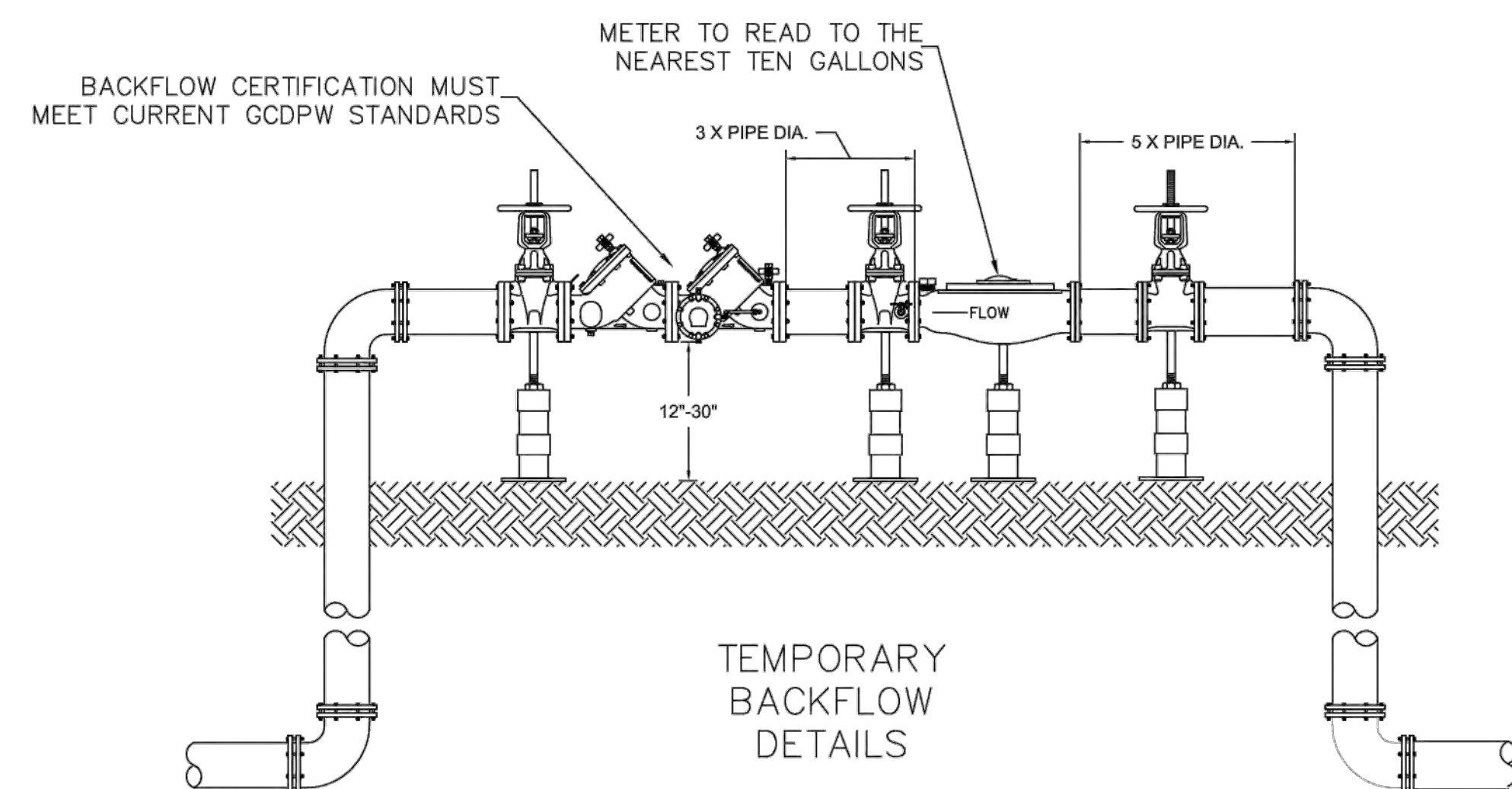
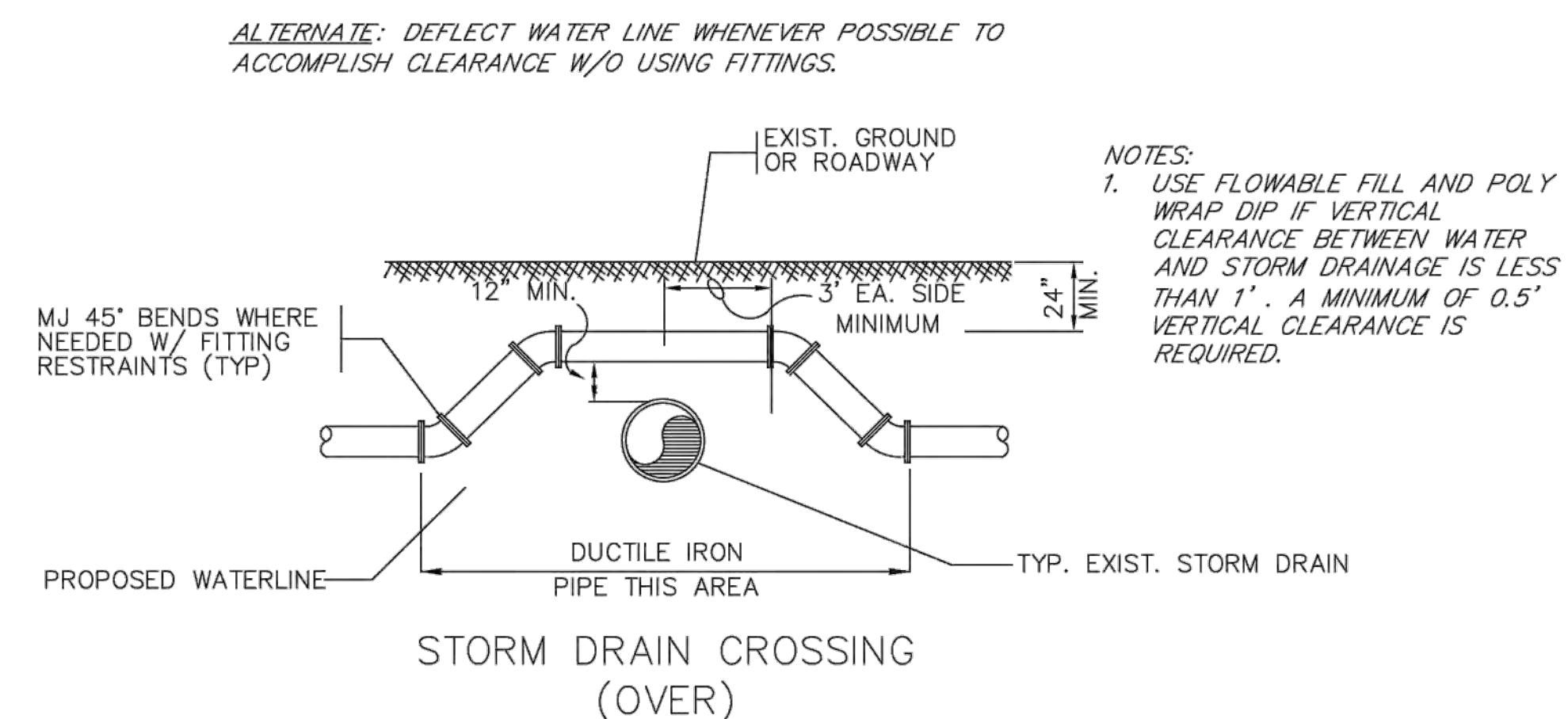
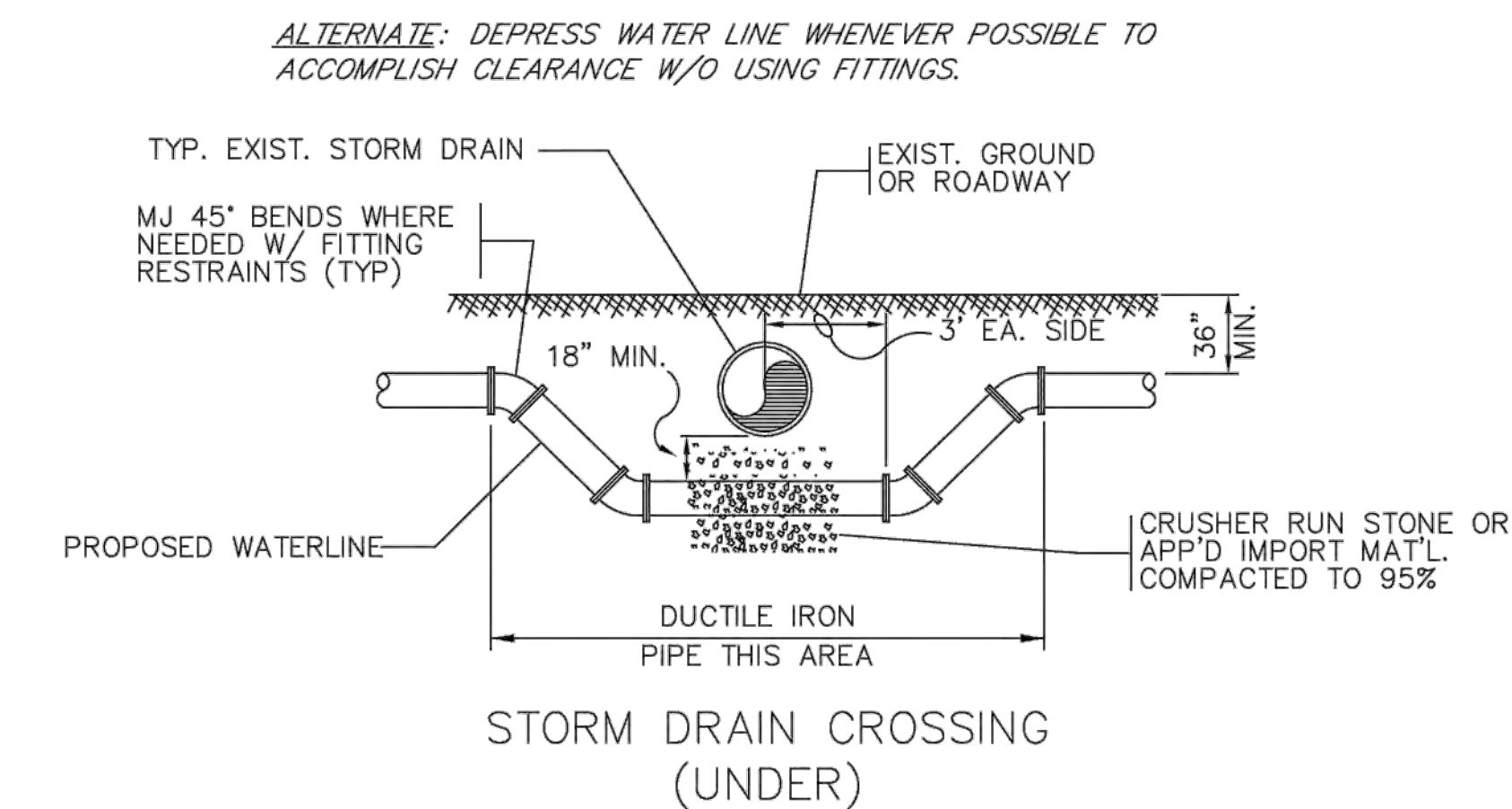
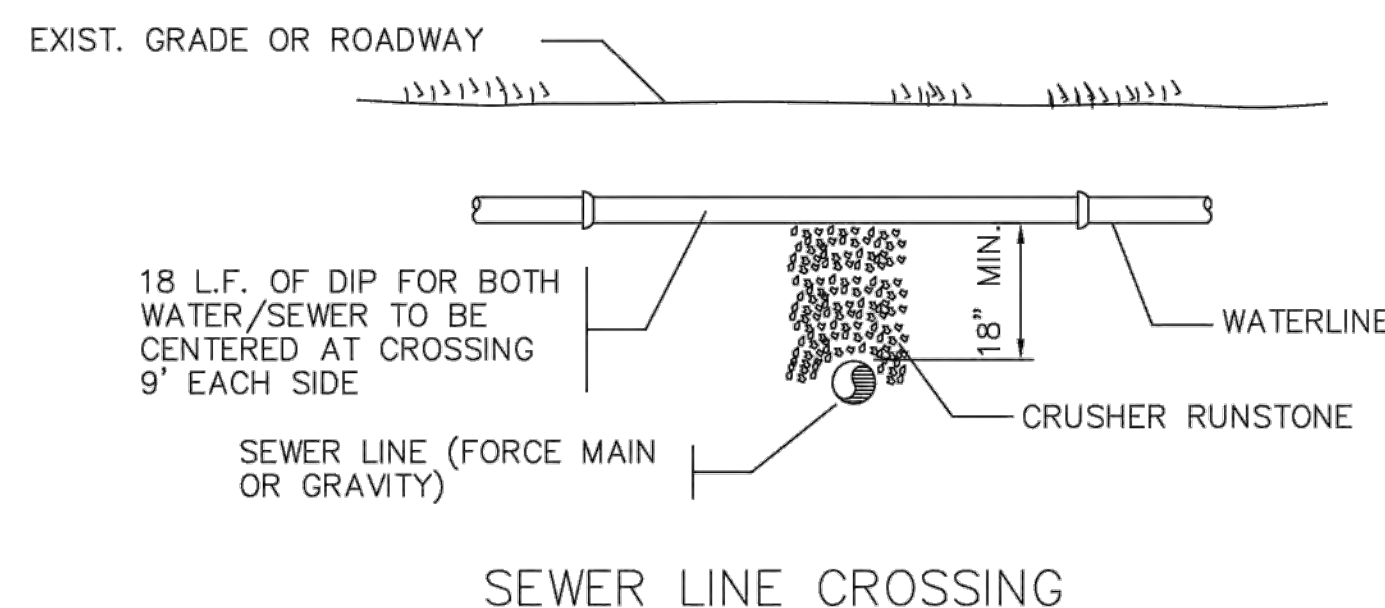
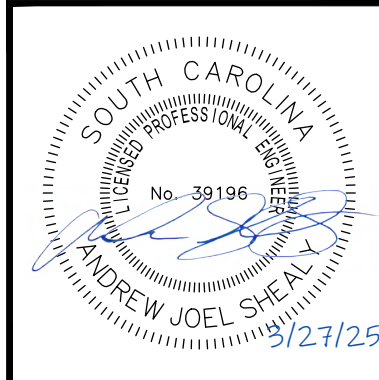




- NOTES:**
1. STEEL CASING TO EXTEND A MINIMUM OF 5' BEYOND EDGE OF PAVEMENT.
  2. ALL CONSTRUCTION TO BE INSPECTED AND APPROVED BY LOCAL, COUNTY OR STATE ROAD DEPARTMENT.
  3. CONTRACTOR IS RESPONSIBLE FOR COORDINATING WELD INSPECTIONS PRIOR TO PUSHING CASING.
- \_\_\_\_\_
- \_\_\_\_\_
4. SIZE AND WALL THICKNESS OF CASING TO BE APPROVED BY GCDPW AND SCDOT.
  5. PLUG BOTH ENDS OF CASING WITH CASCADE CASING PLUGS OR GCDPW APPROVED EQUAL.
  6. CASING SPACERS SHALL BE ALL STAINLESS STEEL WITH PLASTIC SLIDES AS MADE BY CASCADE OR GCDPW APPROVED EQUAL.
  7. SPACING OF CASING SPACERS SHALL BE PER MANUFACTURERS' SPECIFICATIONS BASED UPON CARRIER PIPE MATERIAL.



- NOTES:**
1. Concrete: 28 Day Compressive Strength  $f'_c = 4,500$  psi.
2. Reinforcing: ASTM A-615, Grade 60.
3. Joint Sealant: Butyl Rubber SS-S-00210.

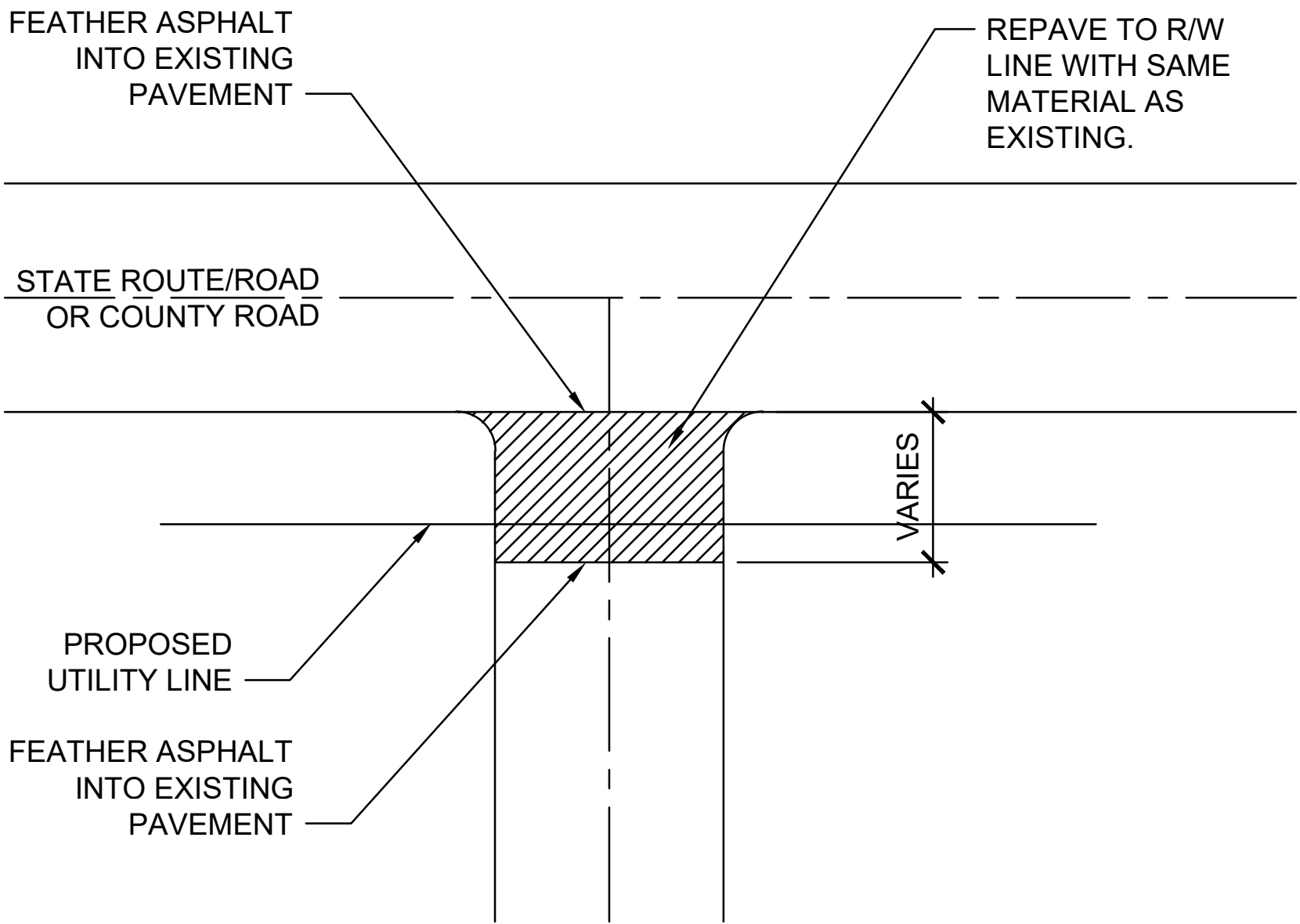
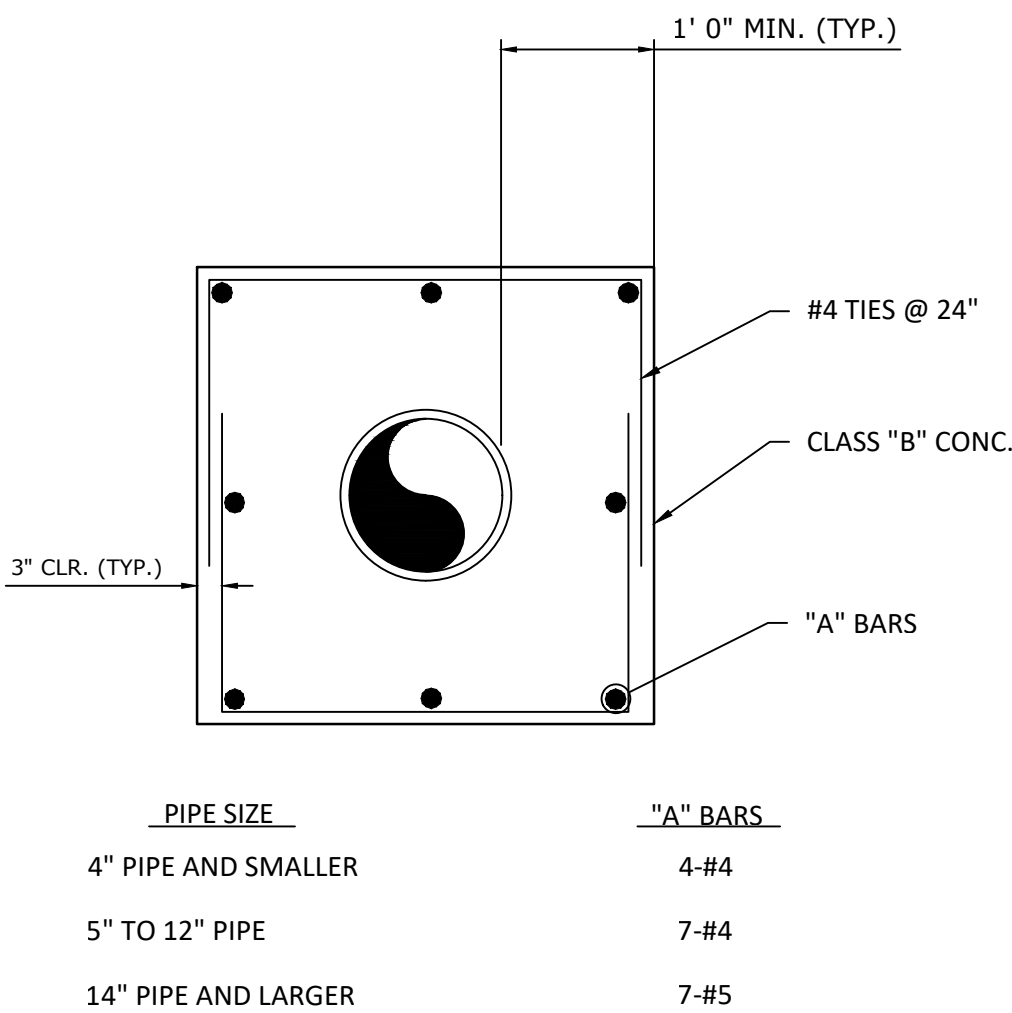
[illegible]



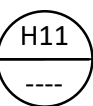


150 PSI TEST PRESSURE FOR DUCTILE IRON AND PVC		
FITTING	LENGTH OF PIPE TO BE RESTRAINED (FT)	SIDE OF FITTING TO BE RESTRAINED
6" - 90-DEG BEND	28	BOTH
6" - 45-DEG BEND	12	BOTH
6" - 22.5-DEG BEND	6	BOTH
6" - GATE VALVE	53	UPSTREAM SIDE
10" X 6" REDUCER	53	LARGER SIDE
10" 90-DEG BEND	43	BOTH
10" 45-DEG BEND	18	BOTH
10" - 22.5-DEG BEND	9	BOTH
10" - 22.5-DEG BEND VERTICAL	25	BOTH
10" - 11.25-DEG BEND	5	BOTH
10" - GATE VALVE	86	UPSTREAM SIDE

1. PROVIDE RESTRAINED JOINT PIPING FOR DISTANCES ABOVE, UNLESS INDICATED OTHERWISE ON DRAWING.
2. PROVIDE PVC WATER PIPE WITH EXTERNAL BELL CLAMPS.
3. REFER TO SECTIONS 33 11 13.13 AND 33 11 13.23 OF THE SPECIFICATIONS.



SCALE: N.T.S.







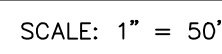














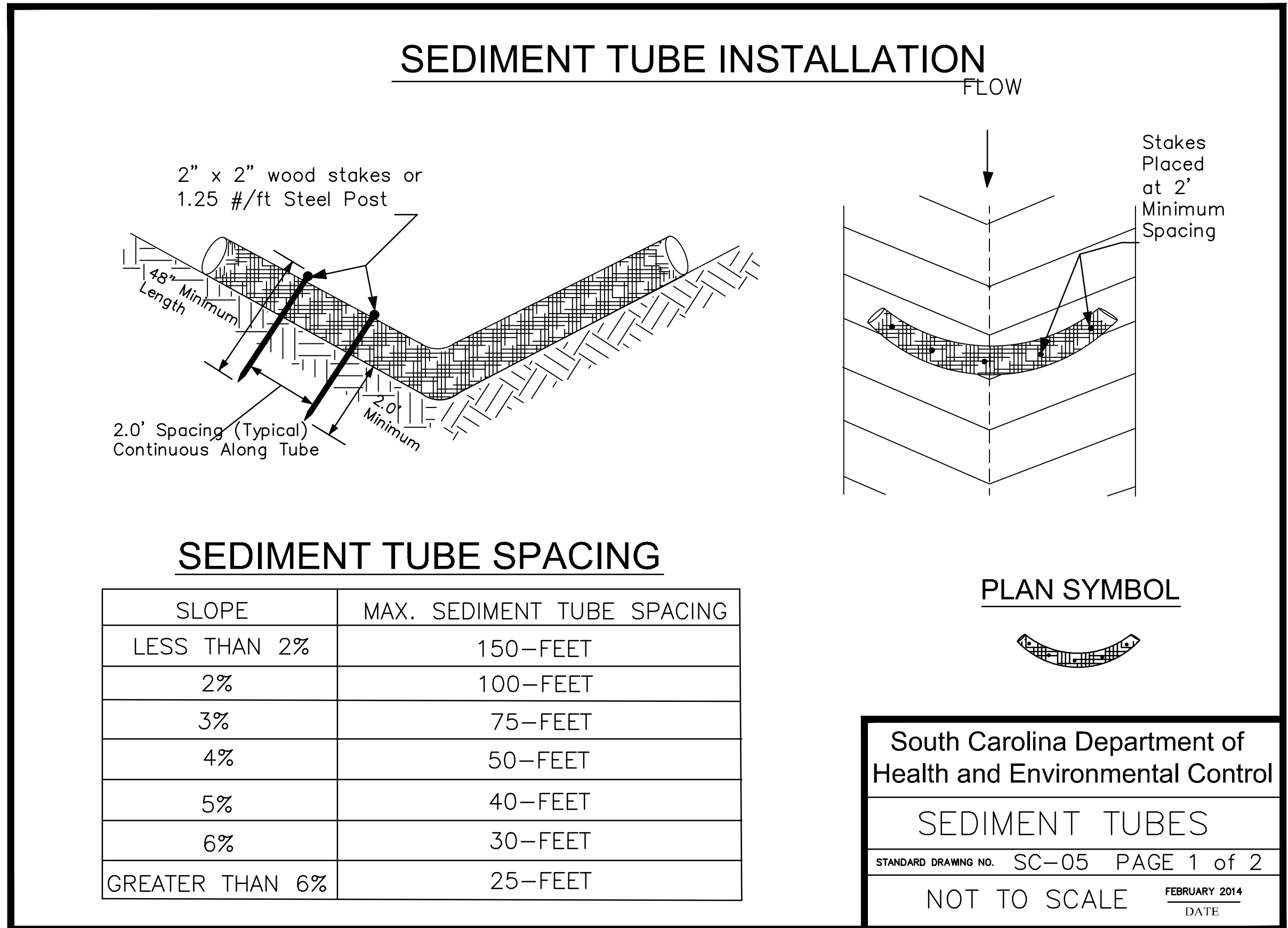
March 14, 2024 C:\Users\hadama\Desktop\Goose Creek\AutoCAD\EC-DT.dwg

	1	2	3	4	5	6	7	8	9	10	11	12																			
A	SCDES SEDIMENT AND EROSION CONTROL NOTES																														
	1.	IF NECESSARY, SLOPES WHICH EXCEED EIGHT (8) VERTICAL FEET SHOULD BE STABILIZED WITH SYNTHETIC OR VEGETATIVE MATS, IN ADDITION TO HYDROSEEDING. IT MAY BE NECESSARY TO INSTALL TEMPORARY SLOPE DRAINS DURING CONSTRUCTION. TEMPORARY BERMS MAY BE NEEDED UNTIL THE SLOPE IS BROUGHT TO GRADE.																													
		2. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN FOURTEEN (14) DAYS AFTER WORK HAS CEASED, EXCEPT AS STATED BELOW. WHERE STABILIZATION BY THE 14TH DAY IS PRECLUDED BY SNOW COVER OR FROZEN GROUND CONDITIONS STABILIZATION MEASURES MUST BE INITIATED AS SOON AS PRACTICABLE, OR WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IS TEMPORARILY CEASED, AND EARTH-DISTURBING ACTIVITIES WILL BE RESUMED WITHIN 14 DAYS, TEMPORARY STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE.																													
B	3.	AFTER CONSTRUCTION ACTIVITIES BEGIN, INSPECTIONS MUST BE CONDUCTED AT A MINIMUM OF AT LEAST ONCE EVERY CALENDAR WEEK, WITH NO TIME PERIOD BETWEEN INSPECTIONS EXCEEDING 9 DAYS, AND MUST BE CONDUCTED UNTIL FINAL STABILIZATION IS REACHED ON ALL AREAS OF THE CONSTRUCTION SITE. IT IS RECOMMENDED THAT BMPS BE ASSESSED BY THE CONTRACTOR WITHIN 24 HOURS OF THE END OF A STORM EVENT OF 1.0 INCH OR GREATER, AS WELL AS DURING THE FIRST RAIN EVENT AFTER THE INITIATION OF CONSTRUCTION ACTIVITIES, AFTER THE INSTALLATION OF BMPS. IF PERIODIC INSPECTION OR OTHER INFORMATION INDICATES THAT A BMP HAS BEEN INAPPROPRIATELY, OR INCORRECTLY CONSTRUCTED, THE PERMITTEE MUST ADDRESS THE NECESSARY REPLACEMENT OR MODIFICATION REQUIRED TO CORRECT THE BMP WITHIN 48 HOURS OF IDENTIFICATION.																													
		4. PROVIDE SILT FENCE AND/OR OTHER CONTROL DEVICES, AS MAY BE REQUIRED, TO CONTROL SOIL EROSION DURING UTILITY CONSTRUCTION. ALL DISTURBED AREAS SHALL BE CLEANED, GRADED AND STABILIZED WITH GRASSING IMMEDIATELY AFTER THE UTILITY INSTALLATION. FILL, COVER, AND TEMPORARY SEEDING AT THE END OF EACH DAY ARE RECOMMENDED. IF WATER IS ENCOUNTERED WHILE TRENCHING, THE WATER SHOULD BE FILTERED TO REMOVE ANY SEDIMENTS BEFORE BEING PUMPED BACK INTO ANY WATERS OF THE STATE.																													
	5.	ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED DURING ALL PHASES OF CONSTRUCTION UNTIL THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES AND ALL DISTURBED AREAS HAVE BEEN STABILIZED. ADDITIONAL CONTROL DEVICES MAY BE REQUIRED DURING CONSTRUCTION IN ORDER TO CONTROL EROSION AND/OR OFF SITE SEDIMENTATION. ALL TEMPORARY CONTROL DEVICES SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED.																													
C		6. THE CONTRACTOR MUST TAKE NECESSARY ACTION TO MINIMIZE THE TRACKING OF MUD ONTO PAVED ROADWAY(S) FROM CONSTRUCTION AREAS AND THE GENERATION OF DUST. THE CONTRACTOR SHALL DAILY REMOVE MUD/SOIL FROM PAVEMENT, AS MAY BE REQUIRED.																													
D	7.	RESIDENTIAL SUBDIVISIONS REQUIRE EROSION CONTROL FEATURES FOR INFRASTRUCTURE AS WELL AS FOR INDIVIDUAL LOT CONSTRUCTION. INDIVIDUAL PROPERTY OWNERS SHALL FOLLOW THESE PLANS DURING CONSTRUCTION OR OBTAIN APPROVAL OF AN INDIVIDUAL PLAN IN ACCORDANCE WITH S.C. REG. 72-300 ET SEQ. AND SCR100000.																													
		8. TEMPORARY DIVERSION BERMS AND/OR DITCHES WILL BE PROVIDED AS NEEDED DURING CONSTRUCTION TO PROTECT WORK AREAS FROM UPSLOPE RUNOFF AND/OR TO DIVERT SEDIMENT-LADEN WATER TO APPROPRIATE TRAPS OR STABLE OUTLETS.																													
	9.	ALL WATERS OF THE STATE (WoS), INCLUDING WETLANDS, ARE TO BE FLAGGED OR OTHERWISE CLEARLY MARKED IN THE FIELD. A DOUBLE ROW OF SILT FENCE IS TO BE INSTALLED IN ALL AREAS WHERE A 30-FOOT BUFFER CAN'T BE MAINTAINED BETWEEN THE DISTURBED AREA AND ALL WoS. A 10-FOOT BUFFER SHOULD BE MAINTAINED BETWEEN THE LAST ROW OF SILT FENCE AND ALL WoS.																													
E		10. LITTER, CONSTRUCTION DEBRIS, OILS, FUELS, AND BUILDING PRODUCTS WITH SIGNIFICANT POTENTIAL FOR IMPACT (SUCH AS STOCKPILES OF FRESHLY TREATED LUMBER) AND CONSTRUCTION CHEMICALS THAT COULD BE EXPOSED TO STORM WATER MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE IN STORM WATER DISCHARGES.																													
F	11.	A COPY OF THE SWPPP, INSPECTIONS RECORDS, AND RAINFALL DATA MUST BE RETAINED AT THE CONSTRUCTION SITE OR A NEARBY LOCATION EASILY ACCESSIBLE DURING NORMAL BUSINESS HOURS, FROM THE DATE OF COMMENCEMENT OF CONSTRUCTION ACTIVITIES TO THE DATE THAT FINAL STABILIZATION IS REACHED.																													
		12. INITIATE STABILIZATION MEASURES ON ANY EXPOSED STEEP SLOPE (3H:1V OR GREATER) WHERE LAND-DISTURBING ACTIVITIES HAVE PERMANENTLY OR TEMPORARILY CEASED, AND WILL NOT RESUME FOR A PERIOD OF 7 CALENDAR DAYS.																													
	13. MINIMIZE SOIL COMPACTION AND, UNLESS INFEASIBLE, PRESERVE TOPSOIL.																														
G	14.	MINIMIZE THE DISCHARGE OF POLLUTANTS FROM EQUIPMENT AND VEHICLE WASHING, WHEEL WASH WATER, AND OTHER WASH WATERS. WASH WATERS MUST BE TREATED IN A SEDIMENT BASIN OR ALTERNATIVE CONTROL THAT PROVIDES EQUIVALENT OR BETTER TREATMENT PRIOR TO DISCHARGE.																													
		15. MINIMIZE THE DISCHARGE OF POLLUTANTS FROM DEWATERING OF TRENCHES AND EXCAVATED AREAS. THESE DISCHARGES ARE TO BE ROUTED THROUGH APPROPRIATE BMP'S (SEDIMENT BASIN, FILTER BAG, ETC.).																													
	16. THE FOLLOWING DISCHARGES FROM SITES ARE PROHIBITED: WASTEWATER FROM WASHOUT OF CONCRETE, UNLESS MANAGED BY AN APPROPRIATE CONTROL; WASTEWATER FROM WASHOUT AND CLEANOUT OF STUCCO, PAINT, FROM RELEASE OILS, CURING COMPOUNDS AND OTHER CONSTRUCTION MATERIALS; FUELS, OILS, OR OTHER POLLUTANTS USED IN VEHICLE AND EQUIPMENT OPERATION AND MAINTENANCE; AND SOAPS OR SOLVENTS USED IN VEHICLE AND EQUIPMENT WASHING.																														
H	"I HAVE PLACED MY SIGNATURE AND SEAL ON THE DESIGN DOCUMENTS SUBMITTED SIGNIFYING THAT I ACCEPT RESPONSIBILITY FOR THE DESIGN OF THE SYSTEM. FURTHER, I CERTIFY TO THE BEST OF MY KNOWLEDGE AND BELIEF THAT THE DESIGN IS CONSISTENT WITH THE REQUIREMENTS OF TITLE 48, CHAPTER 14 OF THE CODE OF LAWS OF SC, 1976 AS AMENDED, PURSUANT TO REGULATION 72-300 ET. SEQ. (IF APPLICABLE), AND IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF SCR100000."																														
	17.	AFTER CONSTRUCTION ACTIVITIES BEGIN, INSPECTIONS MUST BE CONDUCTED AT A MINIMUM OF AT LEAST ONCE EVERY CALENDAR WEEK NOT TO EXCEED NINE (9) DAYS AND MUST BE CONDUCTED UNTIL FINAL STABILIZATION IS REACHED ON ALL AREAS OF THE CONSTRUCTION SITE AS DESCRIBED IN THE PERMIT.																													
		18. IF EXISTING BMPS NEED TO MODIFIED OR IF ADDITIONAL BMPS ARE NECESSARY TO COMPLY WITH THE REQUIREMENTS OF THIS PERMIT AND/ OR SC'S WATER QUALITY STANDARDS, IMPLEMENTATION MUST BE COMPLETED BEFORE THE NEXT STORM EVENT WHENEVER PRACTICABLE. IF IMPLEMENTATION BEFORE THE NEXT STORM EVENT IS IMPRACTICABLE, THE SITUATION MUST BE DOCUMENTED IN THE SWPPP AND ALTERNATIVE BMPS MUST BE IMPLEMENTED AS SOON AS REASONABLY POSSIBLE.																													
	19.	A PRE-CONSTRUCTION CONFERENCE MUST BE HELD FOR EACH CONSTRUCTION SITE WITH AN APPROVED ON-SITE SWPPP PRIOR TO THE IMPLEMENTATION OF CONSTRUCTION ACTIVITIES. FOR NON-LINEAR PROJECTS THAT DISTURB 10 ACRES OR MORE THIS CONFERENCE MUST BE HELD ON-SITE UNLESS THE DEPARTMENT HAS APPROVED OTHERWISE.																													
		20. CONTRACTORS ARE REQUIRED TO HAVE RAIN GAUGES AT THE CONSTRUCTION SITE AND THE RAIN TOTALS DOCUMENTED FOR REVIEW BY BERKELEY COUNTY AND SCDES.																													
	21. A PRE-CONSTRUCTION CONFERENCE MUST BE HELD WITH BERKELEY COUNTY AT LEAST 48 HOURS PRIOR TO BEGINNING ANY LAND DISTURBING ACTIVITIES. THE OWNER, DESIGN ENGINEER AND CONTRACTOR MUST BE PRESENT AND HAVE OBTAINED THE STORMWATER PERMIT, STAMPED APPROVED PLANS AND THE N.O.I APPROVAL LETTER FROM SCDES BEFORE SCHEDULING THIS MEETING.																														
CONSTRUCTION NOTES:																															
	1.	ALL UTILITIES ARE SHOWN IN THE APPROXIMATE LOCATIONS. CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. ANY AND ALL UTILITIES DAMAGED DUE TO CONSTRUCTION SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER.																													
		2. FOR CLARITY, MULTIPLE UTILITIES OF THE SAME TYPE MAY APPEAR AS ONE LINE. UTILITIES MAY ALSO APPEAR CLOSER GRAPHICALLY THAN THEY ARE IN THE FIELD.																													
	3.	EXISTING FENCES IN CONSTRUCTION AREA SHALL BE TEMPORARILY REMOVED DURING CONSTRUCTION AND REINSTALLED AFTER WORK IS COMPLETE.																													
		4. ALL CONSTRUCTION ACTIVITIES WHICH HAVE DAMAGED OR OTHERWISE ALTERED ROADWAYS, DRIVEWAYS, SIGNS, MAILBOXES OR OTHER IMPROVEMENTS ON PUBLIC OR PRIVATE PROPERTY, SHALL BE RESTORED TO CONDITIONS EQUAL TO OR BETTER THAN THE CONDITIONS PRIOR TO BEGINNING WORK.																													
5. ALL TREES AND UNDERGROWTH THAT ARE CLEARED SHALL BE LEGALLY DISPOSED OF OFF OWNER'S PROPERTY. BURNING OF REFUSE MATERIALS IS PROHIBITED.																															
DNR CONSTRUCTION NOTES:																															
	1.	MAINTAIN A 30-FOOT BUFFER FROM ADJACENT STREAMS AND WETLANDS OUTSIDE THE CONSTRUCTION CORRIDOR.																													
		2. PRIOR TO BEGINNING LAND DISTURBING ACTIVITY, PLACE APPROPRIATE EROSION CONTROL MEASURES, SUCH AS SILT FENCES, SILT BARRIERS, OR OTHER DEVICES BETWEEN THE DISTURBED AREA AND THE AFFECTED WATERWAY OR WETLAND. MAINTAIN EROSION CONTROL DEVICES IN A FUNCTIONING CAPACITY UNTIL THE AREA IS PERMANENTLY STABILIZED.																													
	3.	DURING CONSTRUCTION, AVOID ENCROACHMENT INTO WETLAND AREAS OUTSIDE THE CONSTRUCTION CORRIDOR. INSTALL STREAM CROSSINGS PERPENDICULAR WITH THE NATURAL STREAM CHANNEL. PLACE SIDECAST SPOIL MATERIAL FROM TRENCH EXCAVATION ON THE SIDE OF THE TRENCH AWAY FROM STREAMS AND WETLANDS. UTILIZE THIS SAME MATERIAL AS BACKFILL, WITH THE A-HORIZON SOIL PLACED BACK IN ITS ORIGINAL POSITION. REMOVE EXCESS SPOIL MATERIAL TO AN APPROVED UPLAND DISPOSAL SITE.																													
		4. EXERCISE NECESSARY PRECAUTIONS TO PREVENT OIL, TAR, TRASH, AND OTHER POLLUTANTS FROM ENTERING THE ADJACENT OFFSITE AREAS.																													
5.	ONCE THE PROJECT IS INITIATED, CARRY THE CONSTRUCTION TO COMPLETION IN AN EXPEDITIOUS MANNER IN ORDER TO MINIMIZE THE PERIOD OF DISTURBANCE TO THE ENVIRONMENT.																														
	6. UPON COMPLETION, RESTORE GROUND SURFACE ALONG PIPELINES TO PRE-CONSTRUCTION CONTOURS. PERMANENTLY STABILIZE DISTURBED AREAS WITH PERENNIAL VEGETATIVE COVER.																														
TEMPORARY GRASSING SCHEDULE																															
	SCHEDULE	COMMON NAME OF SEED	LBS./ACRE	DATES																											
	NO. 1	BROWN TOP MILLET	40	MARCH 10 - AUGUST 30																											
	NO. 2	RYE GRAIN	56	AUGUST 30 - MARCH15																											
GRASSING SCHEDULE																															
	SCHEDULE	COMMON NAME OF SEED	LBS./ACRE	DATES																											
	NO. 1	SERICEA LESPEDEZA BERMUDA COMMON (HULLED) BROWN TOP MILLET	10 12 10	MARCH 15- AUGUST 30																											
	NO. 2	SERICEA LESPEDEZA PENSACOLA BAHIA RYE GRAIN	5 40 10	AUGUST 30 - NOVEMBER 15																											
	LIME	APPLY AGRICULTURAL GRADE, GROUND LIMESTONE CONFORMING TO THE REQUIREMENTS OF THE SOUTH CAROLINA DEPARTMENT OF AGRICULTURE AT A RATE OF NOT LESS THAN 3,000 POUNDS PER ACRE.																													
		FERTILIZER																													
	MULCH	SPREAD 10-10-10 FERTILIZER WITH MINOR ELEMENTS UNIFORMLY AT A RATE OF NOT LESS THAN 1,000 POUNDS PER ACRE FOR PERMANENT GRASSING AND 500 POUNDS PER ACRE FOR TEMPORARY GRASSING.																													
		APPLY MULCH MATERIAL AS SPECIFIED UNIFORMLY OVER THE DISTURBED AREA AT THE RATE OF 2 TONS PER ACRE.																													
CONSTRUCTION SEQUENCE:																															
1.	PROVIDE NOTIFICATION TO THE OWNER AND SCDOT 48 HOURS BEFORE BEGINNING WORK CONDUCT PRE-CONSTRUCTION MEETING ONSITE AS APPROPRIATE.																														
	2. INSTALL SILT FENCES AS NECESSARY TO PREVENT SEDIMENT TRANSPORT ONTO ADJACENT PROPERTIES, WITH TIE BACKS SPACED ACCORDING TO STANDARD NOTES.																														
3.	INSTALL AND MAINTAIN ROCK DITCH CHECKS WHERE APPLICABLE.																														
	4. INSTALL DIVERSION DITCHES TO CHANNEL SEDIMENT TO ROCK DITCH CHECKS AND SEDIMENT TRAPS AS REQUIRED.																														
	5.	STRIP AND STOCKPILE TOPSOIL WHERE SHOWN ON THE PLANS.																													
		6. PERFORM EARTHWORK FOR FACILITIES AS INDICATED ON THE DRAWINGS.																													
	7.	ALL AREAS DISTURBED BY CONSTRUCTION MUST RECEIVE PERMANENT GRASSING WITHIN 14 DAYS AFTER CONSTRUCTIONS OPERATIONS CEASE.																													
		8. SEED AND MULCH ALL DISTURBED AREAS.																													
9.	INSPECT AND MAINTAIN EROSION CONTROL STRUCTURES AS SPECIFIED IN THE SWPPP AND IN ACCORDANCE WITH THE DETAILS. CONDUCT WEEKLY INSPECTIONS AS DESCRIBED IN THE PERMIT.																														
	10. PROVIDE TEMPORARY SEEDING AND MULCHING IF WORK IN A GIVEN AREA IS TO BE DELAYED FOR MORE THAN 14 DAYS.																														
	11.	REMOVE CONTROL DEVICES WHEN PERMANENT GRASS COVERAGE IS ACHIEVED. SUBMIT NOTICE OF TERMINATION (NOT) TO SCDES AS APPROPRIATE.																													
		STANDARD NOTES																													
	1.	WEEKLY EROSION CONTROL / STORMWATER POLLUTION PREVENTION INSPECTIONS MUST BE CONDUCTED BY A CERTIFIED CEPSCI INSPECTOR OR A QUALIFIED LICENSED PROFESSIONAL ENGINEER AS DESCRIBED IN THE PERMIT.																													
		2. A PERMIT BOX WITH A RAIN GAUGE MUST BE INSTALLED AND KEPT ON SITE.																													
3.	ALL CONTRACTORS, SUBCONTRACTORS, AND BUILDERS WHOSE ACTIVITIES MAY IMPACT STORMWATER DISCHARGES MUST BE AN AUTHORIZED OPERATOR.																														
	4. ALL WORK ON HIGHWAY RIGHT OF WAY REQUIRES AN ENCROACHMENT PERMIT PRIOR TO CONDUCTING ANY WORK IN THE RIGHT OF WAY.																														
	5.	ALL SOIL STOCKPILES OR BORROW AREAS CONSTITUTE LAND DISTURBANCE AND ARE ALLOWED ONLY IN PERMITTED AREAS. COPIES OF PERMITS FOR OFFSITE BORROW, STOCKPILE OR FILL AREAS MUST BE OBTAINED BEFORE USE.																													
		6. ALL EROSION CONTROLS FOR STOCKPILING OF DIRT SHALL COMPLY WITH SCDES STANDARDS. PERIMETER SILT FENCING MUST BE INSTALLED ON THE DOWNHILL SIDES OF THE STOCKPILE. SILT FENCING SHOULD BE OFFSET FROM THE TOE OF THE SLOPE ACCORDING TO THE FOLLOWING SCHEDULE:																													
	<table><tr><th>HEIGHT OF FILL</th><th>FILL SLOPE</th><th>MINIMUM OFFSET FROM TOE OF SLOPE</th><th>MINIMUM RIGHT OF WAY FROM TOE OF SLOPE</th></tr><tr><th>(FEET)</th><th>(HOR:VERT)</th><th>(FEET)</th><th>(FEET)</th></tr><tr><td rowspan="3">&lt;6</td><td>2:1</td><td rowspan="3">2</td><td rowspan="3">3</td></tr><tr><td>4:1</td></tr><tr><td>6:1</td></tr><tr><td rowspan="3">6 - 10</td><td>2:1</td><td>12</td><td>13</td></tr><tr><td>4:1</td><td>3</td><td>4</td></tr><tr><td>6:1</td><td>3</td><td>4</td></tr><tr><td rowspan="2">&gt; 10</td><td>2:1</td><td>12</td><td>13</td></tr><tr><td>4:1</td><td>4</td><td>5</td></tr></table>	HEIGHT OF FILL	FILL SLOPE	MINIMUM OFFSET FROM TOE OF SLOPE	MINIMUM RIGHT OF WAY FROM TOE OF SLOPE	(FEET)	(HOR:VERT)	(FEET)	(FEET)	<6	2:1	2	3	4:1	6:1	6 - 10	2:1	12	13	4:1	3	4	6:1	3	4	> 10	2:1	12	13	4:1	4
HEIGHT OF FILL	FILL SLOPE	MINIMUM OFFSET FROM TOE OF SLOPE	MINIMUM RIGHT OF WAY FROM TOE OF SLOPE																												
(FEET)	(HOR:VERT)	(FEET)	(FEET)																												
<6	2:1	2	3																												
	4:1																														
	6:1																														
6 - 10	2:1	12	13																												
	4:1	3	4																												
	6:1	3	4																												
> 10	2:1	12	13																												
	4:1	4	5																												

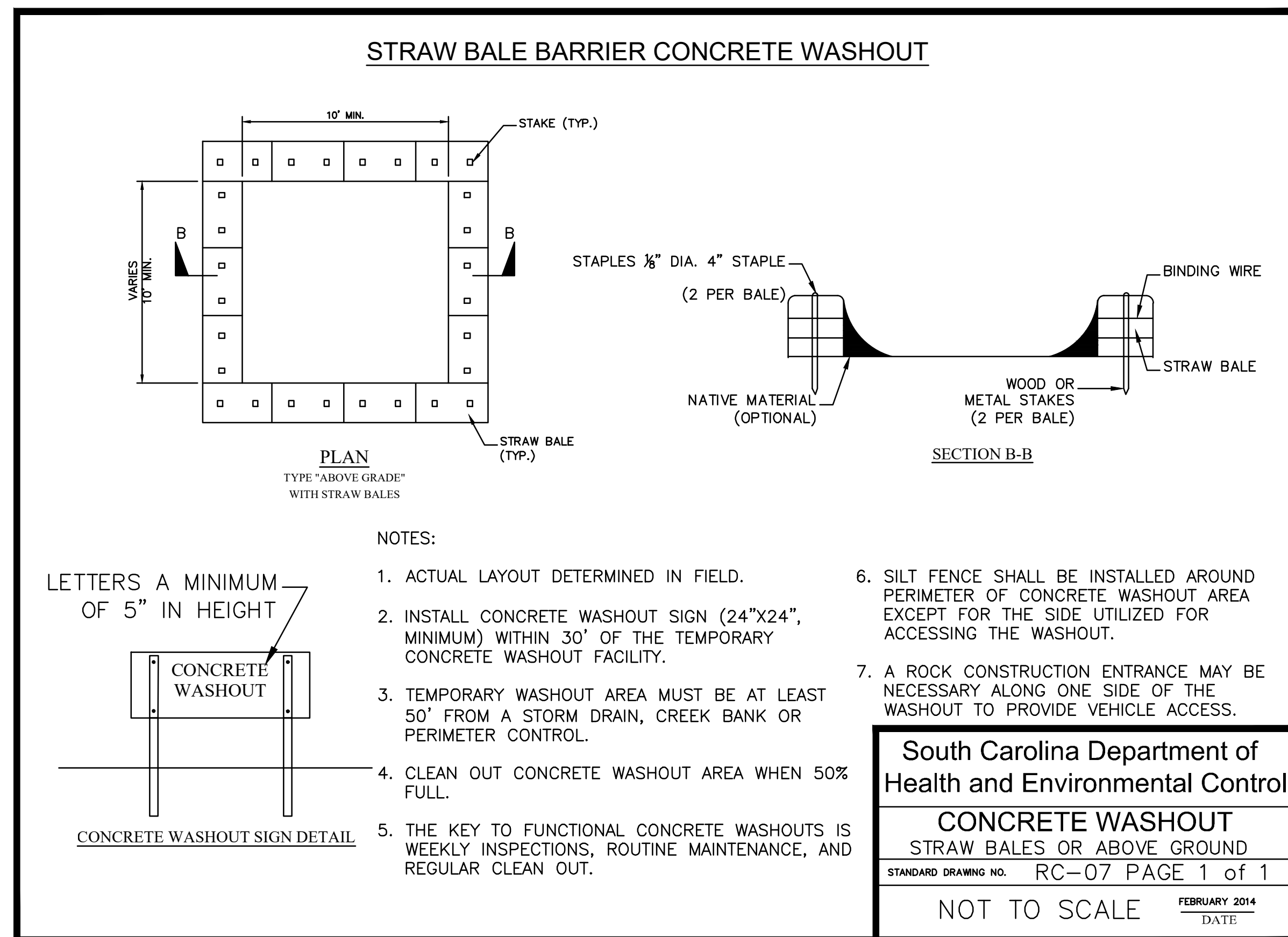
	1	2	3	4	5	6	7	8	9	10	11	12																			
A	SCDES SEDIMENT AND EROSION CONTROL NOTES																														
	1.	IF NECESSARY, SLOPES WHICH EXCEED EIGHT (8) VERTICAL FEET SHOULD BE STABILIZED WITH SYNTHETIC OR VEGETATIVE MATS, IN ADDITION TO HYDROSEEDING. IT MAY BE NECESSARY TO INSTALL TEMPORARY SLOPE DRAINS DURING CONSTRUCTION. TEMPORARY BERMS MAY BE NEEDED UNTIL THE SLOPE IS BROUGHT TO GRADE.																													
		2. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN FOURTEEN (14) DAYS AFTER WORK HAS CEASED, EXCEPT AS STATED BELOW. WHERE STABILIZATION BY THE 14TH DAY IS PRECLUDED BY SNOW COVER OR FROZEN GROUND CONDITIONS STABILIZATION MEASURES MUST BE INITIATED AS SOON AS PRACTICABLE, OR WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IS TEMPORARILY CEASED, AND EARTH-DISTURBING ACTIVITIES WILL BE RESUMED WITHIN 14 DAYS, TEMPORARY STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE.																													
B	3.	AFTER CONSTRUCTION ACTIVITIES BEGIN, INSPECTIONS MUST BE CONDUCTED AT A MINIMUM OF AT LEAST ONCE EVERY CALENDAR WEEK, WITH NO TIME PERIOD BETWEEN INSPECTIONS EXCEEDING 9 DAYS, AND MUST BE CONDUCTED UNTIL FINAL STABILIZATION IS REACHED ON ALL AREAS OF THE CONSTRUCTION SITE. IT IS RECOMMENDED THAT BMPS BE ASSESSED BY THE CONTRACTOR WITHIN 24 HOURS OF THE END OF A STORM EVENT OF 1.0 INCH OR GREATER, AS WELL AS DURING THE FIRST RAIN EVENT AFTER THE INITIATION OF CONSTRUCTION ACTIVITIES, AFTER THE INSTALLATION OF BMPS. IF PERIODIC INSPECTION OR OTHER INFORMATION INDICATES THAT A BMP HAS BEEN INAPPROPRIATELY, OR INCORRECTLY CONSTRUCTED, THE PERMITTEE MUST ADDRESS THE NECESSARY REPLACEMENT OR MODIFICATION REQUIRED TO CORRECT THE BMP WITHIN 48 HOURS OF IDENTIFICATION.																													
		4. PROVIDE SILT FENCE AND/OR OTHER CONTROL DEVICES, AS MAY BE REQUIRED, TO CONTROL SOIL EROSION DURING UTILITY CONSTRUCTION. ALL DISTURBED AREAS SHALL BE CLEANED, GRADED AND STABILIZED WITH GRASSING IMMEDIATELY AFTER THE UTILITY INSTALLATION. FILL, COVER, AND TEMPORARY SEEDING AT THE END OF EACH DAY ARE RECOMMENDED. IF WATER IS ENCOUNTERED WHILE TRENCHING, THE WATER SHOULD BE FILTERED TO REMOVE ANY SEDIMENTS BEFORE BEING PUMPED BACK INTO ANY WATERS OF THE STATE.																													
	5.	ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED DURING ALL PHASES OF CONSTRUCTION UNTIL THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES AND ALL DISTURBED AREAS HAVE BEEN STABILIZED. ADDITIONAL CONTROL DEVICES MAY BE REQUIRED DURING CONSTRUCTION IN ORDER TO CONTROL EROSION AND/OR OFF SITE SEDIMENTATION. ALL TEMPORARY CONTROL DEVICES SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED.																													
C		6. THE CONTRACTOR MUST TAKE NECESSARY ACTION TO MINIMIZE THE TRACKING OF MUD ONTO PAVED ROADWAY(S) FROM CONSTRUCTION AREAS AND THE GENERATION OF DUST. THE CONTRACTOR SHALL DAILY REMOVE MUD/SOIL FROM PAVEMENT, AS MAY BE REQUIRED.																													
D	7.	RESIDENTIAL SUBDIVISIONS REQUIRE EROSION CONTROL FEATURES FOR INFRASTRUCTURE AS WELL AS FOR INDIVIDUAL LOT CONSTRUCTION. INDIVIDUAL PROPERTY OWNERS SHALL FOLLOW THESE PLANS DURING CONSTRUCTION OR OBTAIN APPROVAL OF AN INDIVIDUAL PLAN IN ACCORDANCE WITH S.C. REG. 72-300 ET SEQ. AND SCR100000.																													
		8. TEMPORARY DIVERSION BERMS AND/OR DITCHES WILL BE PROVIDED AS NEEDED DURING CONSTRUCTION TO PROTECT WORK AREAS FROM UPSLOPE RUNOFF AND/OR TO DIVERT SEDIMENT-LADEN WATER TO APPROPRIATE TRAPS OR STABLE OUTLETS.																													
	9.	ALL WATERS OF THE STATE (WoS), INCLUDING WETLANDS, ARE TO BE FLAGGED OR OTHERWISE CLEARLY MARKED IN THE FIELD. A DOUBLE ROW OF SILT FENCE IS TO BE INSTALLED IN ALL AREAS WHERE A 30-FOOT BUFFER CAN'T BE MAINTAINED BETWEEN THE DISTURBED AREA AND ALL WoS. A 10-FOOT BUFFER SHOULD BE MAINTAINED BETWEEN THE LAST ROW OF SILT FENCE AND ALL WoS.																													
E		10. LITTER, CONSTRUCTION DEBRIS, OILS, FUELS, AND BUILDING PRODUCTS WITH SIGNIFICANT POTENTIAL FOR IMPACT (SUCH AS STOCKPILES OF FRESHLY TREATED LUMBER) AND CONSTRUCTION CHEMICALS THAT COULD BE EXPOSED TO STORM WATER MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE IN STORM WATER DISCHARGES.																													
F	11.	A COPY OF THE SWPPP, INSPECTIONS RECORDS, AND RAINFALL DATA MUST BE RETAINED AT THE CONSTRUCTION SITE OR A NEARBY LOCATION EASILY ACCESSIBLE DURING NORMAL BUSINESS HOURS, FROM THE DATE OF COMMENCEMENT OF CONSTRUCTION ACTIVITIES TO THE DATE THAT FINAL STABILIZATION IS REACHED.																													
		12. INITIATE STABILIZATION MEASURES ON ANY EXPOSED STEEP SLOPE (3H:1V OR GREATER) WHERE LAND-DISTURBING ACTIVITIES HAVE PERMANENTLY OR TEMPORARILY CEASED, AND WILL NOT RESUME FOR A PERIOD OF 7 CALENDAR DAYS.																													
	13. MINIMIZE SOIL COMPACTION AND, UNLESS INFEASIBLE, PRESERVE TOPSOIL.																														
G	14.	MINIMIZE THE DISCHARGE OF POLLUTANTS FROM EQUIPMENT AND VEHICLE WASHING, WHEEL WASH WATER, AND OTHER WASH WATERS. WASH WATERS MUST BE TREATED IN A SEDIMENT BASIN OR ALTERNATIVE CONTROL THAT PROVIDES EQUIVALENT OR BETTER TREATMENT PRIOR TO DISCHARGE.																													
		15. MINIMIZE THE DISCHARGE OF POLLUTANTS FROM DEWATERING OF TRENCHES AND EXCAVATED AREAS. THESE DISCHARGES ARE TO BE ROUTED THROUGH APPROPRIATE BMP'S (SEDIMENT BASIN, FILTER BAG, ETC.).																													
	16. THE FOLLOWING DISCHARGES FROM SITES ARE PROHIBITED: WASTEWATER FROM WASHOUT OF CONCRETE, UNLESS MANAGED BY AN APPROPRIATE CONTROL; WASTEWATER FROM WASHOUT AND CLEANOUT OF STUCCO, PAINT, FROM RELEASE OILS, CURING COMPOUNDS AND OTHER CONSTRUCTION MATERIALS; FUELS, OILS, OR OTHER POLLUTANTS USED IN VEHICLE AND EQUIPMENT OPERATION AND MAINTENANCE; AND SOAPS OR SOLVENTS USED IN VEHICLE AND EQUIPMENT WASHING.																														
H	"I HAVE PLACED MY SIGNATURE AND SEAL ON THE DESIGN DOCUMENTS SUBMITTED SIGNIFYING THAT I ACCEPT RESPONSIBILITY FOR THE DESIGN OF THE SYSTEM. FURTHER, I CERTIFY TO THE BEST OF MY KNOWLEDGE AND BELIEF THAT THE DESIGN IS CONSISTENT WITH THE REQUIREMENTS OF TITLE 48, CHAPTER 14 OF THE CODE OF LAWS OF SC, 1976 AS AMENDED, PURSUANT TO REGULATION 72-300 ET. SEQ. (IF APPLICABLE), AND IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF SCR100000."																														
	17.	AFTER CONSTRUCTION ACTIVITIES BEGIN, INSPECTIONS MUST BE CONDUCTED AT A MINIMUM OF AT LEAST ONCE EVERY CALENDAR WEEK NOT TO EXCEED NINE (9) DAYS AND MUST BE CONDUCTED UNTIL FINAL STABILIZATION IS REACHED ON ALL AREAS OF THE CONSTRUCTION SITE AS DESCRIBED IN THE PERMIT.																													
		18. IF EXISTING BMPS NEED TO MODIFIED OR IF ADDITIONAL BMPS ARE NECESSARY TO COMPLY WITH THE REQUIREMENTS OF THIS PERMIT AND/ OR SC'S WATER QUALITY STANDARDS, IMPLEMENTATION MUST BE COMPLETED BEFORE THE NEXT STORM EVENT WHENEVER PRACTICABLE. IF IMPLEMENTATION BEFORE THE NEXT STORM EVENT IS IMPRACTICABLE, THE SITUATION MUST BE DOCUMENTED IN THE SWPPP AND ALTERNATIVE BMPS MUST BE IMPLEMENTED AS SOON AS REASONABLY POSSIBLE.																													
	19.	A PRE-CONSTRUCTION CONFERENCE MUST BE HELD FOR EACH CONSTRUCTION SITE WITH AN APPROVED ON-SITE SWPPP PRIOR TO THE IMPLEMENTATION OF CONSTRUCTION ACTIVITIES. FOR NON-LINEAR PROJECTS THAT DISTURB 10 ACRES OR MORE THIS CONFERENCE MUST BE HELD ON-SITE UNLESS THE DEPARTMENT HAS APPROVED OTHERWISE.																													
		20. CONTRACTORS ARE REQUIRED TO HAVE RAIN GAUGES AT THE CONSTRUCTION SITE AND THE RAIN TOTALS DOCUMENTED FOR REVIEW BY BERKELEY COUNTY AND SCDES.																													
	21. A PRE-CONSTRUCTION CONFERENCE MUST BE HELD WITH BERKELEY COUNTY AT LEAST 48 HOURS PRIOR TO BEGINNING ANY LAND DISTURBING ACTIVITIES. THE OWNER, DESIGN ENGINEER AND CONTRACTOR MUST BE PRESENT AND HAVE OBTAINED THE STORMWATER PERMIT, STAMPED APPROVED PLANS AND THE N.O.I APPROVAL LETTER FROM SCDES BEFORE SCHEDULING THIS MEETING.																														
CONSTRUCTION NOTES:																															
	1.	ALL UTILITIES ARE SHOWN IN THE APPROXIMATE LOCATIONS. CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. ANY AND ALL UTILITIES DAMAGED DUE TO CONSTRUCTION SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER.																													
		2. FOR CLARITY, MULTIPLE UTILITIES OF THE SAME TYPE MAY APPEAR AS ONE LINE. UTILITIES MAY ALSO APPEAR CLOSER GRAPHICALLY THAN THEY ARE IN THE FIELD.																													
	3.	EXISTING FENCES IN CONSTRUCTION AREA SHALL BE TEMPORARILY REMOVED DURING CONSTRUCTION AND REINSTALLED AFTER WORK IS COMPLETE.																													
		4. ALL CONSTRUCTION ACTIVITIES WHICH HAVE DAMAGED OR OTHERWISE ALTERED ROADWAYS, DRIVEWAYS, SIGNS, MAILBOXES OR OTHER IMPROVEMENTS ON PUBLIC OR PRIVATE PROPERTY, SHALL BE RESTORED TO CONDITIONS EQUAL TO OR BETTER THAN THE CONDITIONS PRIOR TO BEGINNING WORK.																													
5. ALL TREES AND UNDERGROWTH THAT ARE CLEARED SHALL BE LEGALLY DISPOSED OF OFF OWNER'S PROPERTY. BURNING OF REFUSE MATERIALS IS PROHIBITED.																															
DNR CONSTRUCTION NOTES:																															
	1.	MAINTAIN A 30-FOOT BUFFER FROM ADJACENT STREAMS AND WETLANDS OUTSIDE THE CONSTRUCTION CORRIDOR.																													
		2. PRIOR TO BEGINNING LAND DISTURBING ACTIVITY, PLACE APPROPRIATE EROSION CONTROL MEASURES, SUCH AS SILT FENCES, SILT BARRIERS, OR OTHER DEVICES BETWEEN THE DISTURBED AREA AND THE AFFECTED WATERWAY OR WETLAND. MAINTAIN EROSION CONTROL DEVICES IN A FUNCTIONING CAPACITY UNTIL THE AREA IS PERMANENTLY STABILIZED.																													
	3.	DURING CONSTRUCTION, AVOID ENCROACHMENT INTO WETLAND AREAS OUTSIDE THE CONSTRUCTION CORRIDOR. INSTALL STREAM CROSSINGS PERPENDICULAR WITH THE NATURAL STREAM CHANNEL. PLACE SIDECAST SPOIL MATERIAL FROM TRENCH EXCAVATION ON THE SIDE OF THE TRENCH AWAY FROM STREAMS AND WETLANDS. UTILIZE THIS SAME MATERIAL AS BACKFILL, WITH THE A-HORIZON SOIL PLACED BACK IN ITS ORIGINAL POSITION. REMOVE EXCESS SPOIL MATERIAL TO AN APPROVED UPLAND DISPOSAL SITE.																													
		4. EXERCISE NECESSARY PRECAUTIONS TO PREVENT OIL, TAR, TRASH, AND OTHER POLLUTANTS FROM ENTERING THE ADJACENT OFFSITE AREAS.																													
5.	ONCE THE PROJECT IS INITIATED, CARRY THE CONSTRUCTION TO COMPLETION IN AN EXPEDITIOUS MANNER IN ORDER TO MINIMIZE THE PERIOD OF DISTURBANCE TO THE ENVIRONMENT.																														
	6. UPON COMPLETION, RESTORE GROUND SURFACE ALONG PIPELINES TO PRE-CONSTRUCTION CONTOURS. PERMANENTLY STABILIZE DISTURBED AREAS WITH PERENNIAL VEGETATIVE COVER.																														
TEMPORARY GRASSING SCHEDULE																															
	SCHEDULE	COMMON NAME OF SEED	LBS./ACRE	DATES																											
	NO. 1	BROWN TOP MILLET	40	MARCH 10 - AUGUST 30																											
	NO. 2	RYE GRAIN	56	AUGUST 30 - MARCH15																											
GRASSING SCHEDULE																															
	SCHEDULE	COMMON NAME OF SEED	LBS./ACRE	DATES																											
	NO. 1	SERICEA LESPEDEZA BERMUDA COMMON (HULLED) BROWN TOP MILLET	10 12 10	MARCH 15- AUGUST 30																											
	NO. 2	SERICEA LESPEDEZA PENSACOLA BAHIA RYE GRAIN	5 40 10	AUGUST 30 - NOVEMBER 15																											
	LIME	APPLY AGRICULTURAL GRADE, GROUND LIMESTONE CONFORMING TO THE REQUIREMENTS OF THE SOUTH CAROLINA DEPARTMENT OF AGRICULTURE AT A RATE OF NOT LESS THAN 3,000 POUNDS PER ACRE.																													
		FERTILIZER																													
	MULCH	SPREAD 10-10-10 FERTILIZER WITH MINOR ELEMENTS UNIFORMLY AT A RATE OF NOT LESS THAN 1,000 POUNDS PER ACRE FOR PERMANENT GRASSING AND 500 POUNDS PER ACRE FOR TEMPORARY GRASSING.																													
		APPLY MULCH MATERIAL AS SPECIFIED UNIFORMLY OVER THE DISTURBED AREA AT THE RATE OF 2 TONS PER ACRE.																													
CONSTRUCTION SEQUENCE:																															
1.	PROVIDE NOTIFICATION TO THE OWNER AND SCDOT 48 HOURS BEFORE BEGINNING WORK CONDUCT PRE-CONSTRUCTION MEETING ONSITE AS APPROPRIATE.																														
	2. INSTALL SILT FENCES AS NECESSARY TO PREVENT SEDIMENT TRANSPORT ONTO ADJACENT PROPERTIES, WITH TIE BACKS SPACED ACCORDING TO STANDARD NOTES.																														
3.	INSTALL AND MAINTAIN ROCK DITCH CHECKS WHERE APPLICABLE.																														
	4. INSTALL DIVERSION DITCHES TO CHANNEL SEDIMENT TO ROCK DITCH CHECKS AND SEDIMENT TRAPS AS REQUIRED.																														
	5.	STRIP AND STOCKPILE TOPSOIL WHERE SHOWN ON THE PLANS.																													
		6. PERFORM EARTHWORK FOR FACILITIES AS INDICATED ON THE DRAWINGS.																													
	7.	ALL AREAS DISTURBED BY CONSTRUCTION MUST RECEIVE PERMANENT GRASSING WITHIN 14 DAYS AFTER CONSTRUCTIONS OPERATIONS CEASE.																													
		8. SEED AND MULCH ALL DISTURBED AREAS.																													
9.	INSPECT AND MAINTAIN EROSION CONTROL STRUCTURES AS SPECIFIED IN THE SWPPP AND IN ACCORDANCE WITH THE DETAILS. CONDUCT WEEKLY INSPECTIONS AS DESCRIBED IN THE PERMIT.																														
	10. PROVIDE TEMPORARY SEEDING AND MULCHING IF WORK IN A GIVEN AREA IS TO BE DELAYED FOR MORE THAN 14 DAYS.																														
	11.	REMOVE CONTROL DEVICES WHEN PERMANENT GRASS COVERAGE IS ACHIEVED. SUBMIT NOTICE OF TERMINATION (NOT) TO SCDES AS APPROPRIATE.																													
		STANDARD NOTES																													
	1.	WEEKLY EROSION CONTROL / STORMWATER POLLUTION PREVENTION INSPECTIONS MUST BE CONDUCTED BY A CERTIFIED CEPSCI INSPECTOR OR A QUALIFIED LICENSED PROFESSIONAL ENGINEER AS DESCRIBED IN THE PERMIT.																													
		2. A PERMIT BOX WITH A RAIN GAUGE MUST BE INSTALLED AND KEPT ON SITE.																													
3.	ALL CONTRACTORS, SUBCONTRACTORS, AND BUILDERS WHOSE ACTIVITIES MAY IMPACT STORMWATER DISCHARGES MUST BE AN AUTHORIZED OPERATOR.																														
	4. ALL WORK ON HIGHWAY RIGHT OF WAY REQUIRES AN ENCROACHMENT PERMIT PRIOR TO CONDUCTING ANY WORK IN THE RIGHT OF WAY.																														
	5.	ALL SOIL STOCKPILES OR BORROW AREAS CONSTITUTE LAND DISTURBANCE AND ARE ALLOWED ONLY IN PERMITTED AREAS. COPIES OF PERMITS FOR OFFSITE BORROW, STOCKPILE OR FILL AREAS MUST BE OBTAINED BEFORE USE.																													
		6. ALL EROSION CONTROLS FOR STOCKPILING OF DIRT SHALL COMPLY WITH SCDES STANDARDS. PERIMETER SILT FENCING MUST BE INSTALLED ON THE DOWNHILL SIDES OF THE STOCKPILE. SILT FENCING SHOULD BE OFFSET FROM THE TOE OF THE SLOPE ACCORDING TO THE FOLLOWING SCHEDULE:																													
	<table><tr><th>HEIGHT OF FILL</th><th>FILL SLOPE</th><th>MINIMUM OFFSET FROM TOE OF SLOPE</th><th>MINIMUM RIGHT OF WAY FROM TOE OF SLOPE</th></tr><tr><th>(FEET)</th><th>(HOR:VERT)</th><th>(FEET)</th><th>(FEET)</th></tr><tr><td rowspan="3">&lt;6</td><td>2:1</td><td rowspan="3">2</td><td rowspan="3">3</td></tr><tr><td>4:1</td></tr><tr><td>6:1</td></tr><tr><td rowspan="3">6 - 10</td><td>2:1</td><td>12</td><td>13</td></tr><tr><td>4:1</td><td>3</td><td>4</td></tr><tr><td>6:1</td><td>3</td><td>4</td></tr><tr><td rowspan="2">&gt; 10</td><td>2:1</td><td>12</td><td>13</td></tr><tr><td>4:1</td><td>4</td><td>5</td></tr></table>	HEIGHT OF FILL	FILL SLOPE	MINIMUM OFFSET FROM TOE OF SLOPE	MINIMUM RIGHT OF WAY FROM TOE OF SLOPE	(FEET)	(HOR:VERT)	(FEET)	(FEET)	<6	2:1	2	3	4:1	6:1	6 - 10	2:1	12	13	4:1	3	4	6:1	3	4	> 10	2:1	12	13	4:1	4
HEIGHT OF FILL	FILL SLOPE	MINIMUM OFFSET FROM TOE OF SLOPE	MINIMUM RIGHT OF WAY FROM TOE OF SLOPE																												
(FEET)	(HOR:VERT)	(FEET)	(FEET)																												
<6	2:1	2	3																												
	4:1																														
	6:1																														
6 - 10	2:1	12	13																												
	4:1	3	4																												
	6:1	3	4																												
> 10	2:1	12	13																												
	4:1	4	5																												

	1	2	3	4	5	6	7	8	9	10	11	12
A	SCDES SEDIMENT AND EROSION CONTROL NOTES											
	1.	IF NECESSARY, SLOPES WHICH EXCEED EIGHT (8) VERTICAL FEET SHOULD BE STABILIZED WITH SYNTHETIC OR VEGETATIVE MATS, IN ADDITION TO HYDROSEEDING. IT MAY BE NECESSARY TO INSTALL TEMPORARY SLOPE DRAINS DURING CONSTRUCTION. TEMPORARY BERMS MAY BE NEEDED UNTIL THE SLOPE IS BROUGHT TO GRADE.										
		2. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN FOURTEEN (14) DAYS AFTER WORK HAS CEASED, EXCEPT AS STATED BELOW. WHERE STABILIZATION BY THE 14TH DAY IS PRECLUDED BY SNOW COVER OR FROZEN GROUND CONDITIONS STABILIZATION MEASURES MUST BE INITIATED AS SOON AS PRACTICABLE, OR WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IS TEMPORARILY CEASED, AND EARTH-DISTURBING ACTIVITIES WILL BE RESUMED WITHIN 14 DAYS, TEMPORARY STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE.										
B	3.	AFTER CONSTRUCTION ACTIVITIES BEGIN, INSPECTIONS MUST BE CONDUCTED AT A MINIMUM OF AT LEAST ONCE EVERY CALENDAR WEEK, WITH NO TIME PERIOD BETWEEN INSPECTIONS EXCEEDING 9 DAYS, AND MUST BE CONDUCTED UNTIL FINAL STABILIZATION IS REACHED ON ALL AREAS OF THE CONSTRUCTION SITE. IT IS RECOMMENDED THAT BMPS BE ASSESSED BY THE CONTRACTOR WITHIN 24 HOURS OF THE END OF A STORM EVENT OF 1.0 INCH OR GREATER, AS WELL AS DURING THE FIRST RAIN EVENT AFTER THE INITIATION OF CONSTRUCTION ACTIVITIES, AFTER THE INSTALLATION OF BMPS. IF PERIODIC INSPECTION OR OTHER INFORMATION INDICATES THAT A BMP HAS BEEN INAPPROPRIATELY, OR INCORRECTLY CONSTRUCTED, THE PERMITTEE MUST ADDRESS THE NECESSARY REPLACEMENT OR MODIFICATION REQUIRED TO CORRECT THE BMP WITHIN 48 HOURS OF IDENTIFICATION.										
		4. PROVIDE SILT FENCE AND/OR OTHER CONTROL DEVICES, AS MAY BE REQUIRED, TO CONTROL SOIL EROSION DURING UTILITY CONSTRUCTION. ALL DISTURBED AREAS SHALL BE CLEANED, GRADED AND STABILIZED WITH GRASSING IMMEDIATELY AFTER THE UTILITY INSTALLATION. FILL, COVER, AND TEMPORARY SEEDING AT THE END OF EACH DAY ARE RECOMMENDED. IF WATER IS ENCOUNTERED WHILE TRENCHING, THE WATER SHOULD BE FILTERED TO REMOVE ANY SEDIMENTS BEFORE BEING PUMPED BACK INTO ANY WATERS OF THE STATE.										
	5.	ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED DURING ALL PHASES OF CONSTRUCTION UNTIL THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES AND ALL DISTURBED AREAS HAVE BEEN STABILIZED. ADDITIONAL CONTROL DEVICES MAY BE REQUIRED DURING CONSTRUCTION IN ORDER TO CONTROL EROSION AND/OR OFF SITE SEDIMENTATION. ALL TEMPORARY CONTROL DEVICES SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED.										
C		6. THE CONTRACTOR MUST TAKE NECESSARY ACTION TO MINIMIZE THE TRACKING OF MUD ONTO PAVED ROADWAY(S) FROM CONSTRUCTION AREAS AND THE GENERATION OF DUST. THE CONTRACTOR SHALL DAILY REMOVE MUD/SOIL FROM PAVEMENT, AS MAY BE REQUIRED.										
D	7.	RESIDENTIAL SUBDIVISIONS REQUIRE EROSION CONTROL FEATURES FOR INFRASTRUCTURE AS WELL AS FOR INDIVIDUAL LOT CONSTRUCTION. INDIVIDUAL PROPERTY OWNERS SHALL FOLLOW THESE PLANS DURING CONSTRUCTION OR OBTAIN APPROVAL OF AN INDIVIDUAL PLAN IN ACCORDANCE WITH S.C. REG. 72-300 ET SEQ. AND SCR100000.										
		8. TEMPORARY DIVERSION BERMS AND/OR DITCHES WILL BE PROVIDED AS NEEDED DURING CONSTRUCTION TO PROTECT WORK AREAS FROM UPSLOPE RUNOFF AND/OR TO DIVERT SEDIMENT-LADEN WATER TO APPROPRIATE TRAPS OR STABLE OUTLETS.										
	9.	ALL WATERS OF THE STATE (WoS), INCLUDING WETLANDS, ARE TO BE FLAGGED OR OTHERWISE CLEARLY MARKED IN THE FIELD. A DOUBLE ROW OF SILT FENCE IS TO BE INSTALLED IN ALL AREAS WHERE A 30-FOOT BUFFER CAN'T BE MAINTAINED BETWEEN THE DISTURBED AREA AND ALL WoS. A 10-FOOT BUFFER SHOULD BE MAINTAINED BETWEEN THE LAST ROW OF SILT FENCE AND ALL WoS.										
E		10. LITTER, CONSTRUCTION DEBRIS, OILS, FUELS, AND BUILDING PRODUCTS WITH SIGNIFICANT POTENTIAL FOR IMPACT (SUCH AS STOCKPILES OF FRESHLY TREATED LUMBER) AND CONSTRUCTION CHEMICALS THAT COULD BE EXPOSED TO STORM WATER MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE IN STORM WATER DISCHARGES.										
F	11.	A COPY OF THE SWPPP, INSPECTIONS RECORDS, AND RAINFALL DATA MUST BE RETAINED AT THE CONSTRUCTION SITE OR A NEARBY LOCATION EASILY ACCESSIBLE DURING NORMAL BUSINESS HOURS, FROM THE DATE OF COMMENCEMENT OF CONSTRUCTION ACTIVITIES TO THE DATE THAT FINAL STABILIZATION IS REACHED.										
		12. INITIATE STABILIZATION MEASURES ON ANY EXPOSED STEEP SLOPE (3H:1V OR GREATER) WHERE LAND-DISTURBING ACTIVITIES HAVE PERMANENTLY OR TEMPORARILY CEASED, AND WILL NOT RESUME FOR A PERIOD OF 7 CALE										

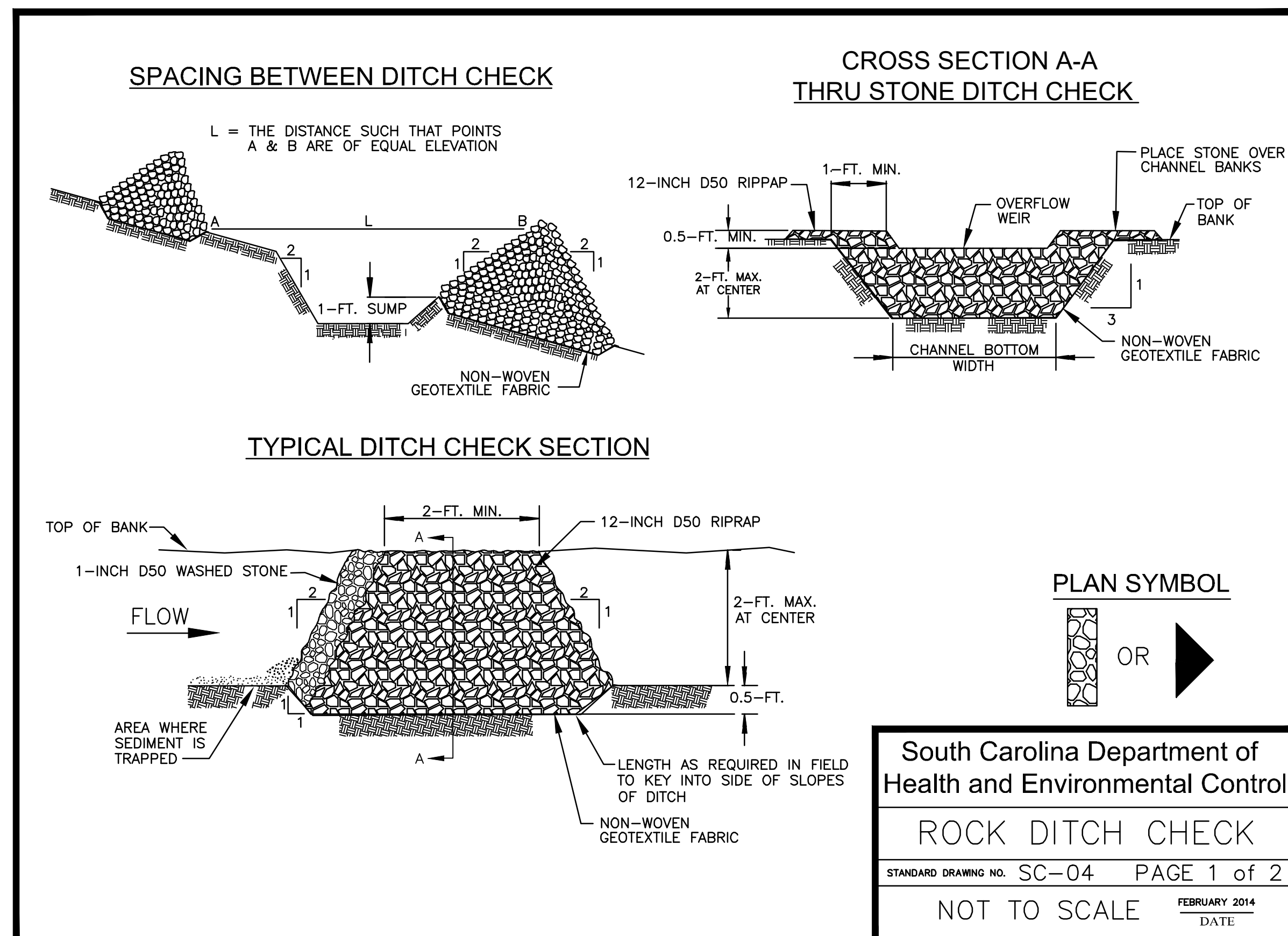






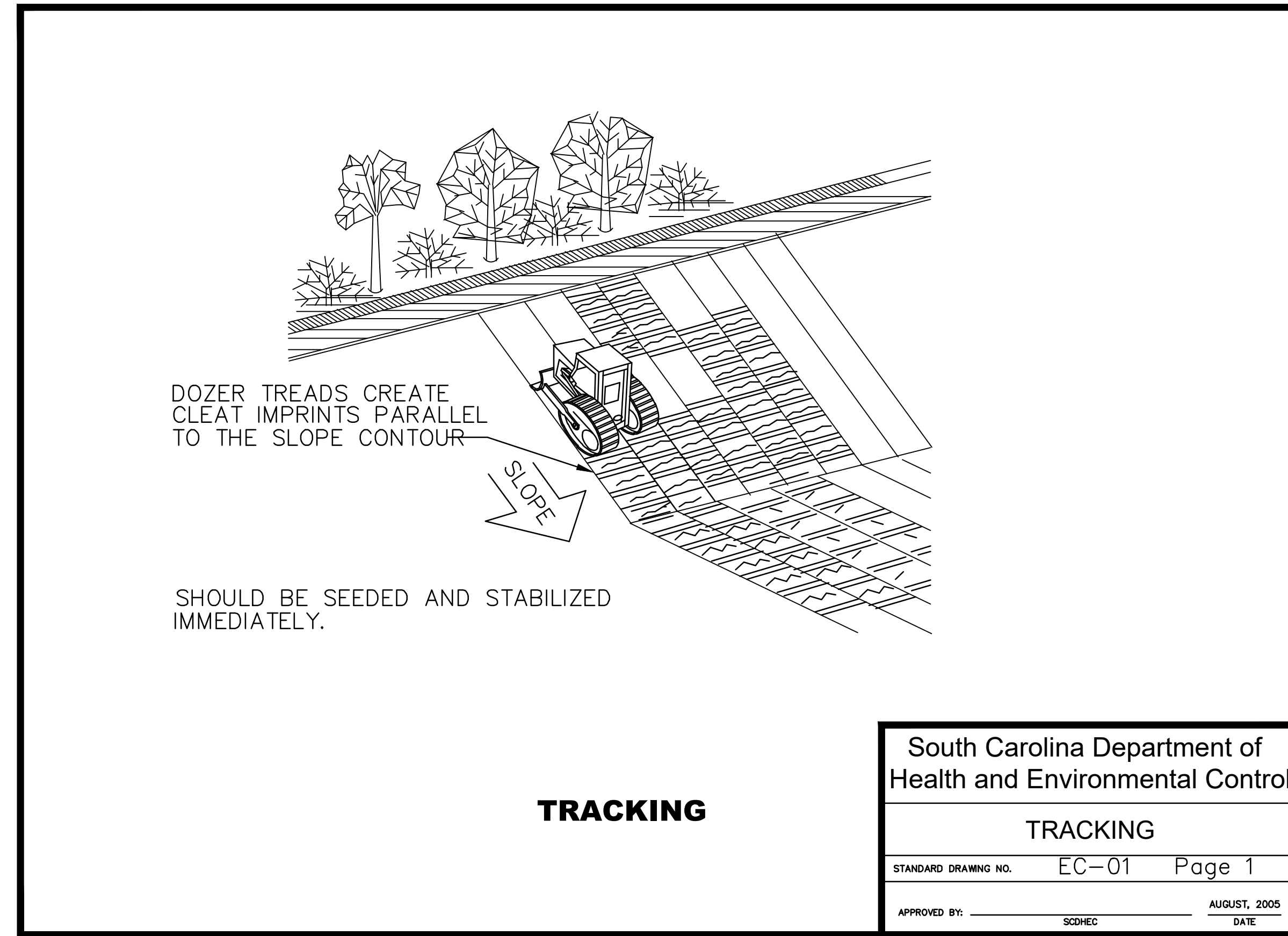


## STRAW BALE BARRIER CONCRETE WASHOUT



# ROCK DITCH CHECK

SCALE: NTS



**TRACKING**  
SCALE: NTS

## ROCK DITCH CHECK – GENERAL NOTES

1. Rock Ditch Checks should not be placed in Waters of the State or USGS blue-line streams (unless approved by Federal Authorities).
2. Rock Ditch Checks should be installed in steeply sloped channels where adequate vegetation cannot be established. This BMP measure should only be used in small open channels.
3. A non-woven geotextile fabric shall be installed over the soil surface where the rock ditch check is to be placed.
4. The body of the rock ditch check shall be composed of 12-inch D50 Riprap. The upstream face may be composed of 1-inch D50 washed stone.
5. Rock Ditch Checks should not exceed a height of 2-feet at the centerline of the channel.
6. Rock Ditch Checks should have a minimum top flow length of 2-feet.
7. Riprap should be placed over channel banks to prevent water from cutting around the ditch check.
8. The riprap should be placed by hand or mechanical placement (no dumping of rock to form dam) to achieve complete coverage of the channel. Doing so will also ensure that the center of the check is lower than the edges.
9. The maximum spacing between the dams should be such that the toe of the upstream check is at the same elevation as the top of the downstream check.

## ROCK DITCH CHECK – INSPECTION & MAINTENANCE

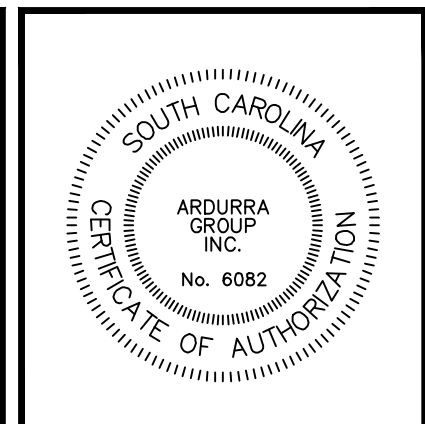
1. The key to functional rock ditch check is weekly inspections, routine maintenance, and regular sediment removal.
2. Regular inspections of rock ditch checks shall be conducted once every calendar week and, as recommended, within 24-hours after each rainfall even that produces 1/2-inch or more of precipitation.
3. Attention to sediment accumulations in front of the rock ditch check is extremely important. Accumulated sediment should be continually monitored and removed when necessary.
4. Remove accumulated sediment when it reaches 1/3 the height of the rock ditch check.
5. Removed sediment shall be placed in stockpile storage areas or spread thinly across disturbed area. Stabilize the removed sediment after it is relocated.
6. Inspect Rock Ditch Checks' edges for erosion and evidence of runoff bypassing the installed check. If evident repair promptly as necessary to prevent erosion and bypassing.
7. In the case of grass-lined ditches, channels, and swales, rock ditch checks should be removed when the grass has matured sufficiently to protect the ditch or swale unless the slope of the swale is greater than 4%.
8. After construction is completed and final stabilization is reached, the entirety of the rock ditch check should be removed if vegetation will be used for permanent erosion control measures. The area beneath the removed rock ditch check must be addressed with permanent stabilization measures.

South Carolina Department of  
Health and Environmental Control

ROCK DITCH CHECK

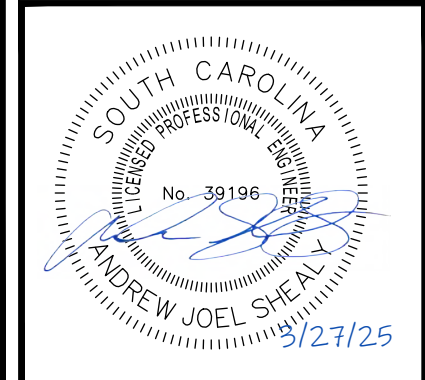
STANDARD DRAWING NO. SC-04 PAGE 2 of 2

GENERAL NOTES

[illegible]

## WATER SYSTEM EXPANSION - SOUTH

SEDIMENT AND EROSION CONTROL  
DETAILS SHEET 3 OF 4

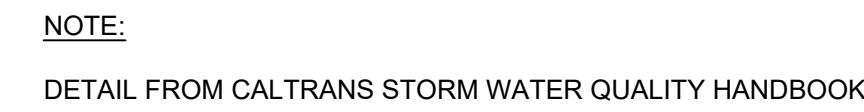


JOB NO:	2023-1180-00
DATE:	MARCH 2025

## EC1.07

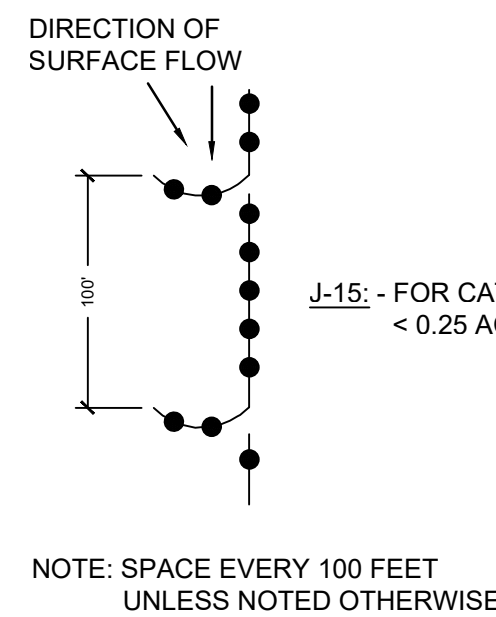
IFC  
MARCH 2025



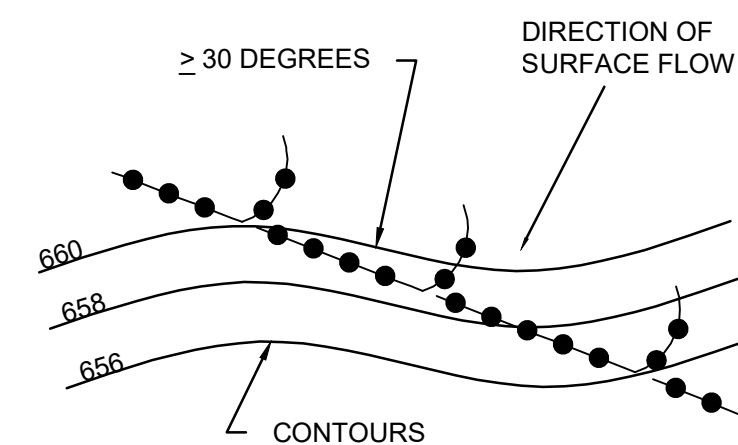


## SCALE: NTS

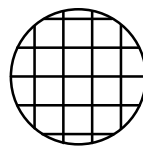
I. SPACING REQUIREMENTS:



## II. SIZING REQUIREMENTS: J-15 OR J-25



SCALE: NTS



1. INSPECT BLANKETS AFTER INSTALLATION FOR GAPS BETWEEN THE JOINTS OF ADJACENT ENDS OF BLANKETS.
2. INSPECT EVERY CALENDAR WEEK.
3. REPAIR ALL RILLS, GULLIES, AND UNDERCUTTING NEAR BLANKETS.
4. REMOVE ANY SEDIMENT DEPOSITS THAT ACCUMULATE ON THE BLANKET. REPAIR BLANKETS AS REQUIRED TO ADAPT TO CHANGING CONSTRUCTION SITE CONDITIONS.
5. APPLY REMEDIAL SEEDING AS REQUIRED TO OBTAIN STABILIZATION.

1. CONTRACTORS - INSTALLATION AND CONSTRUCTION MAINTENANCE
2. CONSTRUCTION SITE INSPECTORS - INSPECTIONS
3. SWPPP PREPARER - DESIGN AND PLACEMENT
4. OWNER - POST-CONSTRUCTION MAINTENANCE

1. CURLEX 11
2. NORTH AMERICAN GREEN - C125
3. PROPEX-LANDLOK OR PYRAMAT
4. OR APPROVAL EQUAL

NOTE: USE J-HOOKS WITH SILT FENCE INSTALLED AT AN ANGLE OF 30 DEGREES OR GREATER FROM PARALLEL TO THE CONTOURS.

1. CONTRACTORS - INSTALLATION AND CONSTRUCTION MAINTENANCE
2. CONSTRUCTION SITE INSPECTORS - INSPECTIONS
3. SWPPP PREPARER - DESIGN AND PLACEMENT
4. OWNER - POST-CONSTRUCTION MAINTENANCE

1. INSPECT EVERY WEEK AND AS RECOMMENDED WITHIN 24-HOURS AFTER EACH RAINFALL EVENT THAT PRODUCES ¼-INCH OR MORE OF PRECIPITATION. CHECK FOR SEDIMENT BUILDUP AND FENCE INTEGRITY. CHECK WHERE RUNOFF HAS ERODED A CHANNEL BENEATH THE FENCE, OR WHERE THE FENCE HAS SAGGED OR COLLAPSED BY FENCE OVERTOPPING.
2. IF THE FENCE FABRIC TEARS, BEGINS TO DECOMPOSE, OR IN ANY WAY BECOMES INEFFECTIVE, REPLACE THE SECTION OF FENCE IMMEDIATELY.
3. REMOVE SEDIMENT ACCUMULATED ALONG THE FENCE WHEN IT REACHES 1/3 THE HEIGHT OF THE FENCE, ESPECIALLY IF HEAVY RAINS ARE EXPECTED.
4. REMOVE TRAPPED SEDIMENT FROM THE SITE OR STABILIZE IT ON SITE.
5. REMOVE SILT FENCE WITHIN 30 DAYS AFTER FINAL STABILIZATION IS ACHIEVED OR AFTER TEMPORARY BEST MANAGEMENT PRACTICES (BMPs) ARE NO LONGER NEEDED.
6. PERMANENTLY STABILIZE DISTURBED AREAS RESULTING FROM FENCE REMOVAL.



## SCALE: NTS



PLAN SYMBOL

1. UTILIZE DUST CONTROL METHODS WHENEVER THERE ARE OFFSITE IMPACTS, ESPECIALLY DURING PERIODS OF DROUGHT.
2. IMPLEMENT DUST CONTROL UNTIL FINAL STABILIZATION IS REACHED.

1. THERE ARE MANY METHODS TO CONTROL DUST ON CONSTRUCTION SITES.
2. PHASING THE PROJECT - PHASING IS DONE TO DECREASE THE AREA OF DISTURBED SOIL THAT IS EXPOSED TO EROSION. THE SMALLER THE AMOUNT OF SOIL THAT IS EXPOSED AT ONE TIME, THE SMALLER THE POTENTIAL FOR DUST GENERATION. PHASING A PROJECT AND UTILIZING TEMPORARY STABILIZATION PRACTICES CAN SIGNIFICANTLY REDUCE DUST EMISSIONS.
3. VEGETATIVE COVER - A VEGETATIVE COVER HELPS REDUCE WIND EROSION. VEGETATIVE COVER IS FOR DISTURBED AREAS NOT SUBJECT TO TRAFFIC. VEGETATION PROVIDES THE MOST PRACTICAL METHOD OF DUST CONTROL.
4. MULCH - MULCHING OFFERS A TEMPORARY WAY TO STABILIZE THE SOIL AND PREVENT EROSION. MULCHING OFFERS A FAST, EFFECTIVE MEANS OF CONTROLLING DUST.
5. SPRINKLING WATER - SPRINKLING HELPS CONTROL THE SUSPENSION OF DUST PARTICLES AND PROMOTES DUST TO SETTLE OUT OF THE AIR. SPRINKLING WATER IS EFFECTIVE FOR DUST CONTROL ON HAUL ROADS AND OTHER TRAFFIC ROUTES.
6. SPRAY-ON-ADHESIVE - ADHESIVES PREVENT SOIL FROM BLOWING AWAY. LATEX EMULSIONS, OR RESIN IN WATER IS SPRAYED ONTO MINERAL SOILS TO PREVENT THEIR BLOWING AWAY AND REDUCE DUST CAUSED BY TRAFFIC.
7. CALCIUM CHLORIDE - CALCIUM CHLORIDE KEEPS THE SOIL SURFACE MOIST AND PREVENTS EROSION. CALCIUM CHLORIDE IS APPLIED BY MECHANICAL SPREADERS AS LOOSE DRY GRANULES OR FLAKES AT A RATE THAT KEEPS THE SURFACE MOIST BUT NOT SO HIGH AS TO CAUSE WATER POLLUTION OR PLANT DAMAGE.
8. BARRIERS - BARRIERS ARE FENCES THAT PREVENT EROSION BY OBSTRUCTING THE WIND NEAR THE GROUND STOPPING THE SOIL FROM BLOWING OFFSITE. BROAD, WIND-RESISTANT OR SEDIMENT FENCES CAN CONTROL AIR CURRENTS AND BLOWING SOIL. BARRIERS ARE NOT A SUBSTITUTE FOR PERMANENT STABILIZATION. PERENNIAL GRASS AND STRANDS OF EXISTING TREES MAY ALSO SERVE AS WIND BARRIERS.

1. INSPECT EVERY CALENDAR WEEK.
2. ADD ADDITIONAL DUST CONTROL OR RE-SPRAY AREA AS NECESSARY TO KEEP DUST TO A MINIMUM.
3. SPRAY EXPOSED SOIL AREAS ONLY WITH APPROVED DUST CONTROL AGENTS.

1. CONTRACTORS - INSTALLATION AND CONSTRUCTION MAINTENANCE
2. CONSTRUCTION SITE INSPECTORS - INSPECTIONS
3. SWPPP PREPARER - DESIGN AND PLACEMENT
4. OWNER - POST-CONSTRUCTION MAINTENANCE

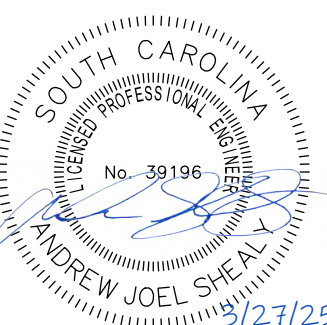
SCALE: NTS

1. FOLLOW ALL MANUFACTURER RECOMMENDATIONS FOR INSPECTION AND MAINTENANCE GUIDELINES.
2. REPLACE DEWATERING BAG WHEN TRAPPED SEDIMENT HAS ACCUMULATED TO 50% OF THE BAG CAPACITY OR IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS
3. DEWATERING BAGS ARE FULL WHEN THEY NO LONGER EFFICIENTLY FILTER OR PASS WATER AT A REASONABLE RATE.
4. CONTRACTOR TO DISPOSE OF DEWATERING BAGS AS DIRECTED BY THE ENGINEER.
5. MONITOR THE DEWATERING BAG AT ALL TIMES WHILE THE PUMP IS RUNNING.

[illegible]

## WATER SYSTEM EXPANSION - SOUTH

SEDIMENT AND EROSION CONTROL  
DETAILS SHEET 4 OF 4



JOB NO:	2023-1180-00
DATE:	MARCH 2025

## EC1.08

IFC  
MARCH 2025