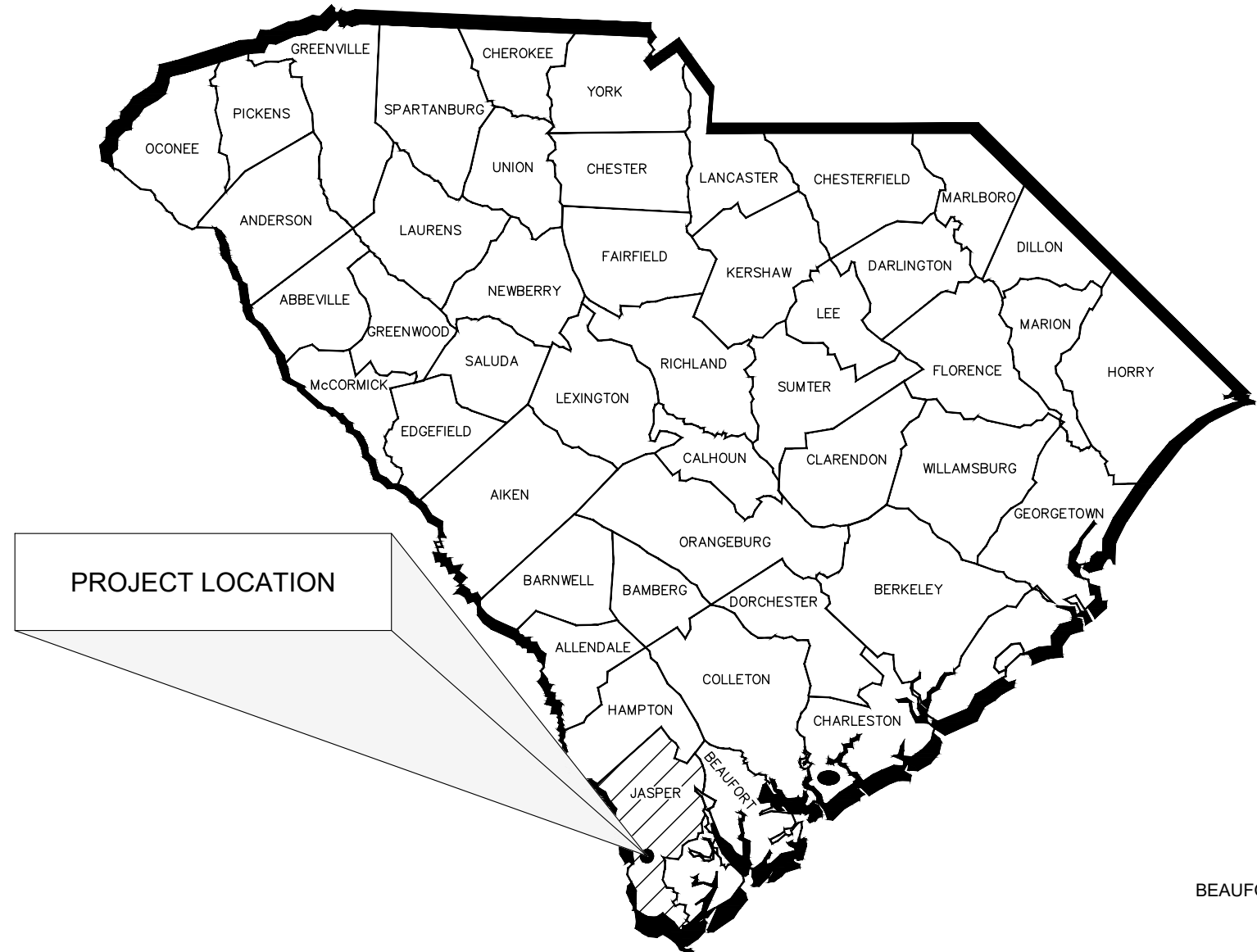


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GALVANIZED WATER LINE REPLACEMENT

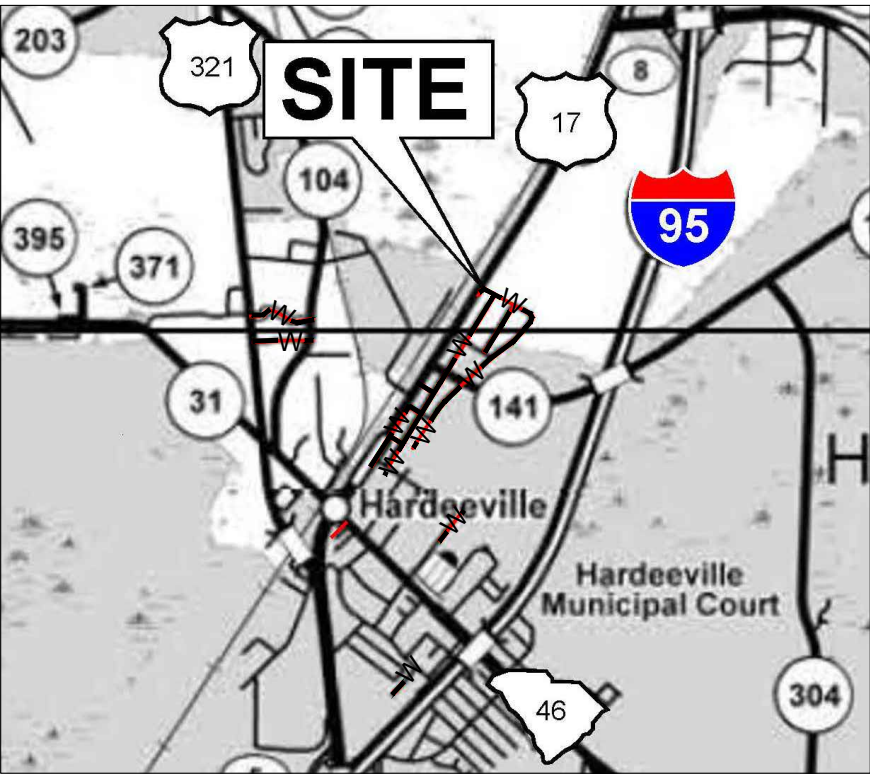
CITY OF HARDEEVILLE AND UNINCORPORATED JASPER COUNTY, SOUTH CAROLINA

EXHIBIT J - CIP-2348



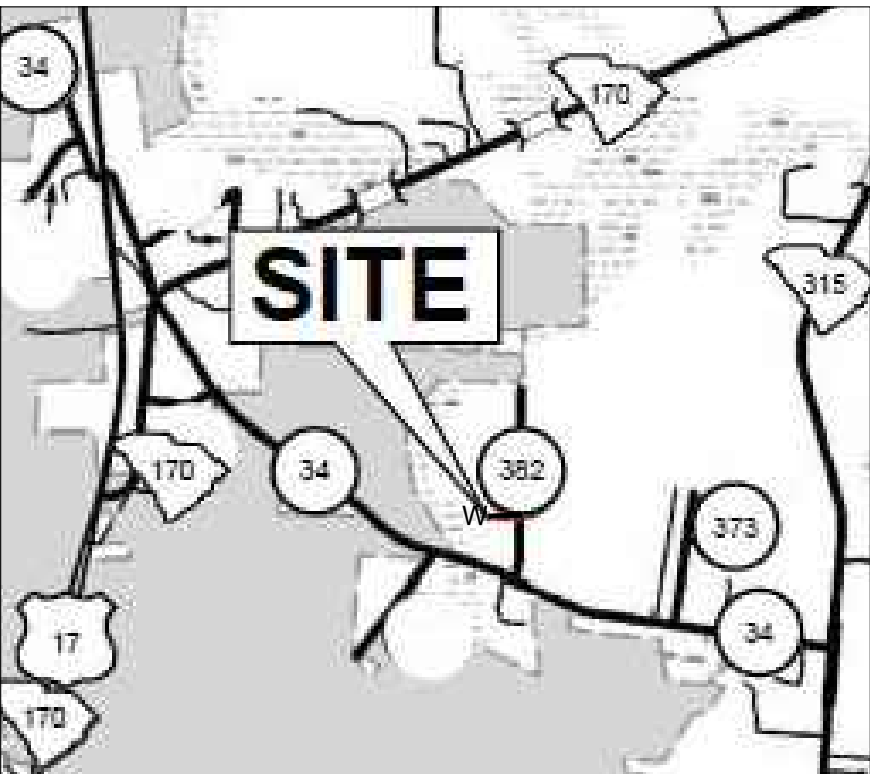
VICINITY MAP
NOT TO SCALE

OWNER
BEAUFORT JASPER WATER & SEWER AUTHORITY
6 SNAKE ROAD,
OKATIE, SOUTH CAROLINA 29909
(843) 228-1852
CONTACT: MS. KATIE HERRERA
PROJECT MANAGER



SITE LOCATION
NTS

CIVIL ENGINEER
ALLIANCE CONSULTING ENGINEERS, INC.
124 VERDAE BOULEVARD, BONAVENTURE II - SUITE 505
GREENVILLE, SOUTH CAROLINA 29607-3843
(864) 284-1740
CONTACT: ADAM R. HOGAN, P.E.



SITE LOCATION
NTS

SHEET INDEX

COVER SHEET	OVERALL SITE PLAN
C-1.0 - C-1.1	LOUISA JONES ROAD PLAN AND PROFILE
C-2.0 - C-2.1	YOU MAN'S ESTATES ROAD PLAN AND PROFILE
C-3.0 - C-3.1	1ST STREET PLAN AND PROFILE
C-4.0 - C-4.7	2ND STREET PLAN AND PROFILE
C-5.0 - C-5.1	MCTEER STREET PLAN AND PROFILE
C-6.0 - C-6.6	EPPS AVENUE PLAN AND PROFILE
C-7.0	GLOVER STREET PLAN AND PROFILE
C-8.0	NELSON'S COURT PLAN AND PROFILE
C-9.0	BEST STREET PLAN AND PROFILE
C-10.0	EROSION CONTROL DETAIL
C-11.0 - C-11.1	UTILITY DETAIL
C-12.0 - C-12.1	TRAFFIC CONTROL DETAIL
C-13.0	



THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. SC LAW REQUIRES THE CONTRACTOR TO CALL THE UTILITY PROTECTION CENTER AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE THE RELOCATION OF ALL THE UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.

CERTIFICATION STATEMENTS

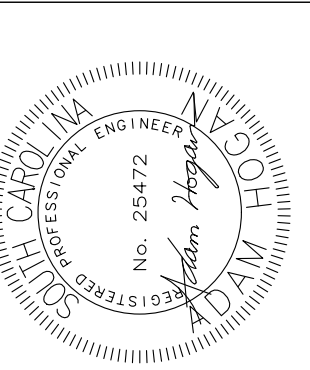
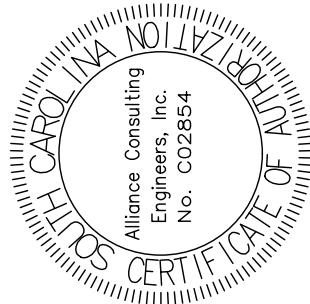
I, *Adam Hogan*, HAVE PLACED MY SIGNATURE AND SEAL ON THE DESIGN DOCUMENTS SUBMITTED SIGNIFYING THAT I ACCEPT RESPONSIBILITY FOR THE DESIGN OF THE SYSTEM. FURTHER, I CERTIFY TO THE BEST OF MY KNOWLEDGE AND BELIEF THAT THE DESIGN IS CONSISTENT WITH THE REQUIREMENTS OF TITLE 48, CHAPTER 14 OF THE CODE 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.

LEGEND

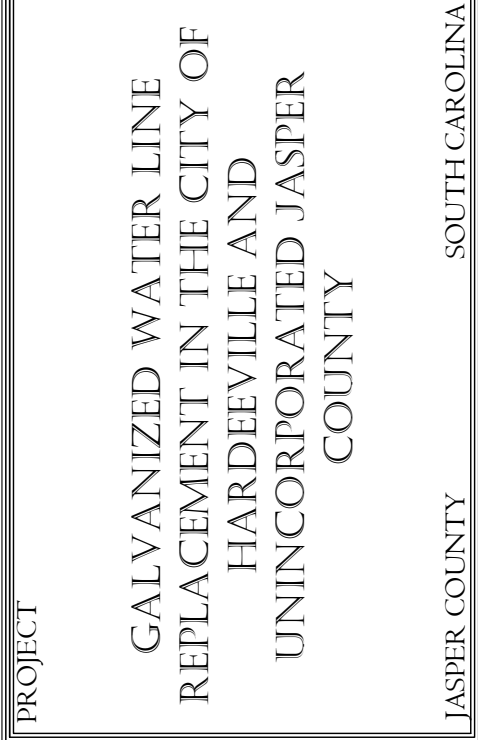
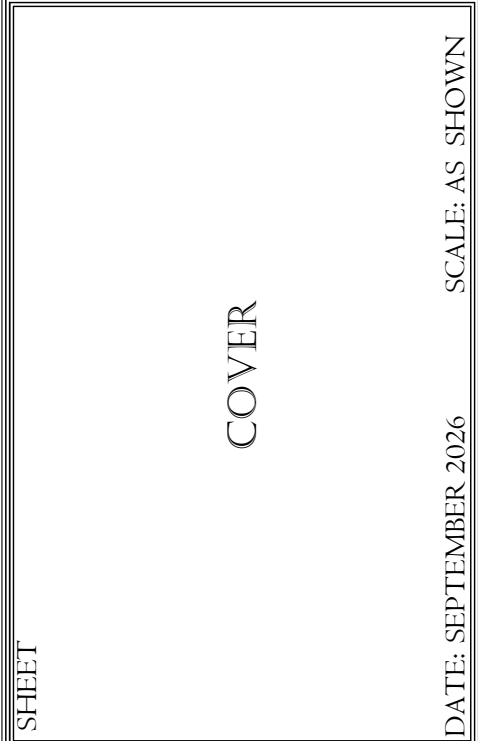
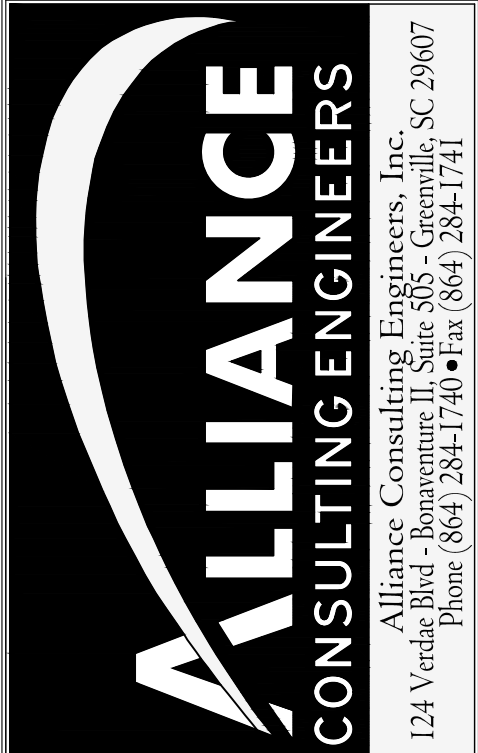
	EXISTING CONTOUR MAJOR		PROPOSED CONTOUR MAJOR
	EXISTING CONTOUR MINOR		PROPOSED CONTOUR MINOR
	EXISTING WATER/GAS VALVE		PROPOSED WATER VALVE
	EXISTING WATER/GAS METER		PROPOSED WATER METER
	EXISTING TREE LINE		PROPOSED FORCE MAIN
	EXISTING POWER POLE		PROPOSED ARV
	EXISTING LIGHT POLE		PROPOSED GRAVITY WASTEWATER LINE
	EXISTING OVERHEAD ELECTRICAL LINE		PROPOSED MANHOLE
	EXISTING FIBER-OPTIC CABLE LINE		PROPOSED WATER LINE
	EXISTING UNDERGROUND TELECOM LINE		PROPOSED HYDRANT
	EXISTING TELECOM/FIBER-OPTIC BOX		PROPOSED STORM DRAIN
	EXISTING GAS LINE		PROPOSED STORM DRAIN STRUCTURE
	EXISTING FENCE		PROPOSED DEMOLITION
	EXISTING FORCEMAIN		PROPOSED EROSION CONTROL MATTING
	EXISTING ARV		PROPOSED RIP RAP
	EXISTING GRAVITY WASTEWATER LINE		PROPOSED INLET PROTECTION
	EXISTING MANHOLE		PROPOSED SILT FENCE
	EXISTING CLEANOUT		PROPOSED FENCE
	EXISTING WATER LINE		RIGHT-OF-WAY
	EXISTING HYDRANT		PROPERTY LINE
	EXISTING STORM DRAIN		LIMITS OF DISTURBANCE
	EXISTING STORM DRAIN STRUCTURE		EASEMENT
	EXISTING BUILDING		WETLANDS AND BUFFER
	DIRT		WATERWAY
	CONCRETE		PROPERTY MARKER
	GRAVEL		100 - YEAR FEMA FLOOD PLAIN
	ASPHALT		
	GUARDRAIL		
	BOLLARD		

REVISION	DATE
DATE	REVISION DESCRIPTION
05/09/24	ISSUE FOR PERMITTING
03/26/25	ISSUE FOR CONSTRUCTION (SCDES LD)
09/11/26	ISSUE FOR BID

APPROVALS	ENGINEER	DESIGNER	HMW	TECHNICIAN	MRT	CHECKED BY	APPROVED	ARH
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DATE: 09/11/26



FILE NAME: 22208 - PLANS.DWG	SHEET COVER
REFERENCE FILE: 22208 - BASE.DWG	OF C-13.0
PROJECT NO. 22208-0027	

DWG NO. 01.1625-D28

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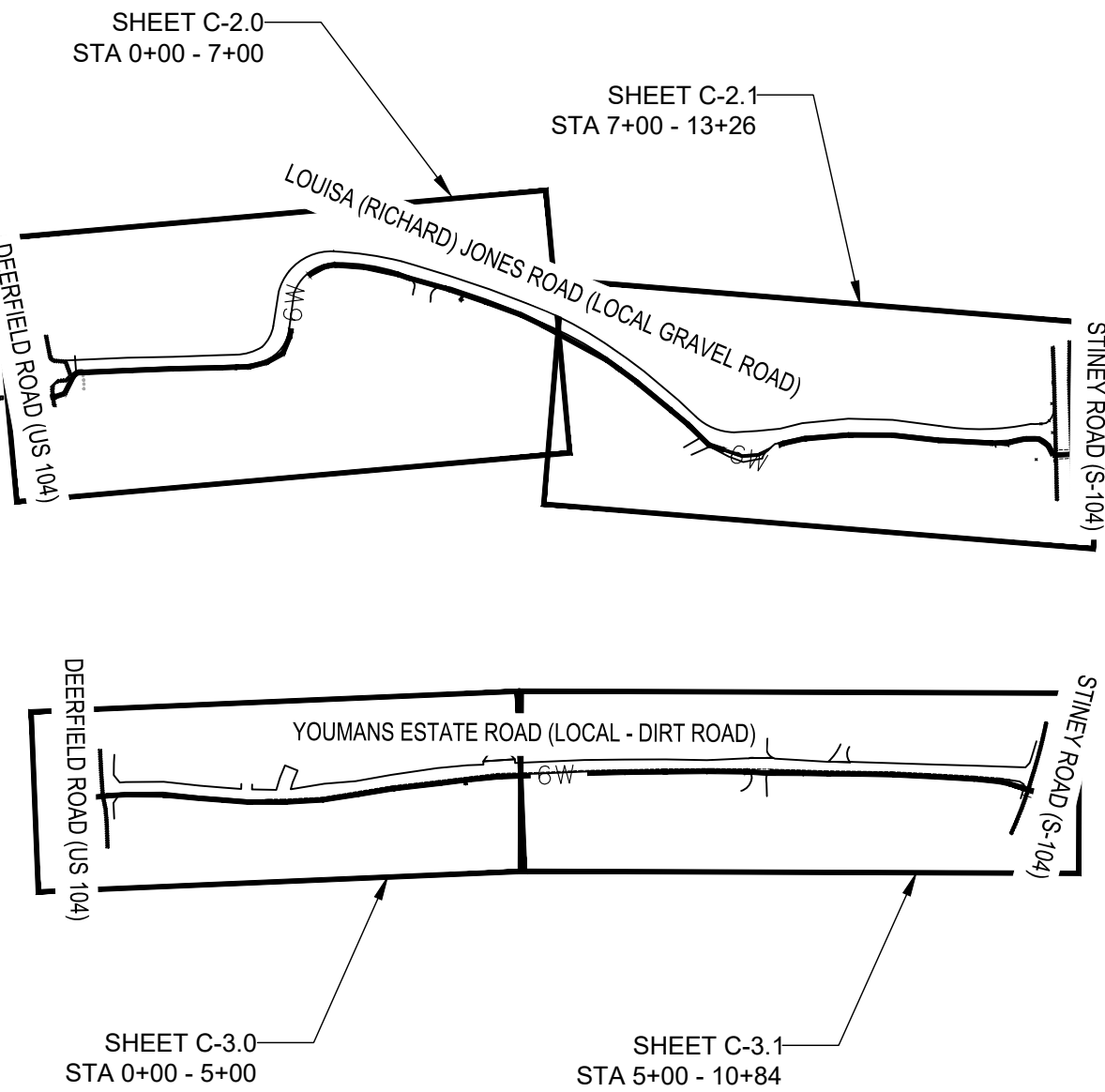
OWNER INFORMATION
OWNER: BEAUFORT JASPER WATER & SEWER AUTHORITY (BJWSA)
CONTACT: MS. KATIE HERRERA, PROJECT MANAGER, CAPITAL PROGRAMS
ADDRESS: 6 SNAKE ROAD
CITY/STATE: OKATIE, SOUTH CAROLINA 29909
TELEPHONE: (843) 226-1852
EMAIL: KATIE.HERRERA@BJWSA.ORG

ENGINEER INFORMATION:
ALLIANCE CONSULTING ENGINEERS, INC.
CONTACT: ADAM R. HOGAN
124 VERDAE BOULEVARD, SUITE 505
GREENVILLE, SC 29607
TELEPHONE: (864) 284-1740
E-MAIL: AHOGAN@ALLIANCECE.COM

SURVEYOR INFORMATION:
ATLAS SURVEYING, INC.
CONTACT: JEREMY W. REEDER
P.L.S. NUMBER: 28139
168 BOARDWALK DRIVE, SUITE A
RIDGELAND, SC 29936
TELEPHONE: (843) 645-9277
E-MAIL: JREEDER@ATLASSURVEYING.COM

NOTES:
CAD FILES WILL BE PROVIDED TO CONTRACTOR FOR USE WITH SITE STAKING.

REFERENCES:
1. REFERENCE IS MADE TO TOPOGRAPHIC SURVEYS PREPARED BY ATLAS SURVEYING, INC. BETWEEN MAY AND SEPTEMBER 2023. THE VERTICAL DATUM IS NAVD 88 AND THE HORIZONTAL DATUM IS THE SOUTH CAROLINA STATE PLANE GRID (NAD 83).



WATER CONSTRUCTION GENERAL NOTES

STANDARDS AND SPECIFICATIONS

- ALL WATER CONSTRUCTION MUST CONFORM TO ALL BEAUFORT JASPER WATER AND SEWER AUTHORITY (BJWSA) STANDARDS AND SPECIFICATIONS.
- CONTRACTOR TO USE THE PIPE MATERIAL AS IT IS REFERENCED IN THE SPECIFICATIONS AND SHOWN ON THE CONSTRUCTION DRAWINGS. ALL PROPOSED PVC PIPE SHALL HAVE A MINIMUM OF 42" OF COVER; CONTRACTOR TO NOTIFY THE OWNER AND ENGINEER IF ANY PROJECT CONDITIONS REQUIRE A CHANGE IN PIPE MATERIAL.
- THE CONTRACTOR SHALL PERFORM ALL CONSTRUCTION IN ACCORDANCE WITH THE LINES AND GRADES SHOWN ON THE PLANS AND TO TOLERANCES STATED HEREIN OR IN THE SPECIFICATIONS.
- CONSTRUCTION SHALL BE CARRIED OUT "IN THE DRY". THE CONTRACTOR SHALL REVIEW SITE CONDITIONS AND DETERMINE METHODS AND EXTENT OF DEWATERING NECESSARY AND SHALL INCLUDE COSTS OF DEWATERING IN THE BID. NO ADDITIONAL COMPENSATION SHALL BE PROVIDED FOR CONTROL OF GROUND OR SURFACE WATER OR FOR ADDITIONAL MATERIALS OR REWORK REQUIRED AS A RESULT OF INADEQUATE OR INSUFFICIENT DEWATERING.
- ALL WORK TO BE PERFORMED FOR THE COMPLETION OF THIS PROJECT SHALL BE CONSTRUCTED ACCORDING TO THE BEST PRACTICES OF THE INDUSTRY AND IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, COUNTY AND/OR CITY CODES, ORDINANCES, STANDARDS AND PERMIT CONDITIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING AND/OR REPAIRING ANY PAVEMENT, DRIVEWAYS, SIDEWALKS, CURBS, AND ANY OTHER EXISTING STRUCTURE THAT MUST BE CUT, REMOVED, OR IS DAMAGED DURING OR AS A RESULT OF CONSTRUCTION. ALL ROAD REPAIRS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS.
- COMPACTION OF THE BACK FILL OF ALL TRENCHES SHALL BE COMPACTED TO 95% STANDARD PROCTOR DENSITY. BACKFILL MATERIAL SHALL BE FREE FROM ROOTS, STUMPS, OR OTHER FOREIGN DEBRIS, AND SHALL BE PLACED AT OR NEAR OPTIMUM MOISTURE. CORRECTION OF ANY TRENCH SETTLEMENT WITHIN A YEAR FROM DATE OF APPROVAL WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.

PERMITS, EASEMENTS, AND ACCESS

- ALL WATER EASEMENTS MUST BE DRESSED AND GRASSED TO THE EXISTING GROUND SURFACE ELEVATION AND TO CONTROL EROSION IN ACCORDANCE WITH EASEMENT PLATS PRIOR TO ACCEPTANCE. TREES SHALL NOT BE PLANTED IN THE PERMANENT EASEMENT AREA.
- IT IS THE RESPONSIBILITY OF THE OWNER TO ACQUIRE ALL EASEMENTS, ACCESS, AND/OR RIGHTS-OF-WAY, AS SHOWN IN THE CONSTRUCTION PLANS. CONTRACTOR SHALL PERFORM AND MAINTAIN ALL WORK, AS SHOWN IN THE CONSTRUCTION PLANS, WITHIN THE EASEMENTS, ACCESS, AND/OR RIGHTS-OF-WAY, AS FURNISHED BY OWNER. CONTRACTOR TO ENSURE ALL EASEMENTS, ACCESS, AND/OR RIGHTS-OF-WAY, AS FURNISHED BY OWNER, CONTRACTOR TO ENSURE ALL EASEMENTS, ACCESS, AND/OR RIGHT-OF-WAY HAVE BEEN OBTAINED.
- ALL PROPERTIES DISTURBED DURING OR AS A RESULT OF CONSTRUCTION SHALL BE RESTORED TO THE PRE-EXISTING CONDITION OR BETTER.
- THE CONTRACTOR SHALL NOTIFY PROPERTY OWNERS IN WRITING AT LEAST TWO (2) BUSINESS DAYS PRIOR TO ANY INCONVENIENCE OR DISRUPTION OF SERVICES AS A RESULT OF CONSTRUCTION.
- CONTRACTOR SHALL NOT BLOCK ANY PROPERTY INGRESS/EGRESS AND IF NECESSARY, SHALL PROVIDE TEMPORARY CONSTRUCTION ACCESS TO PROPERTY OWNERS THROUGHOUT THE PROJECT. CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL OF ALL EXCESS EXCAVATED MATERIAL TO AN APPROVED LOCATION, REGARDLESS OF CONTENT.

EXISTING CONDITIONS

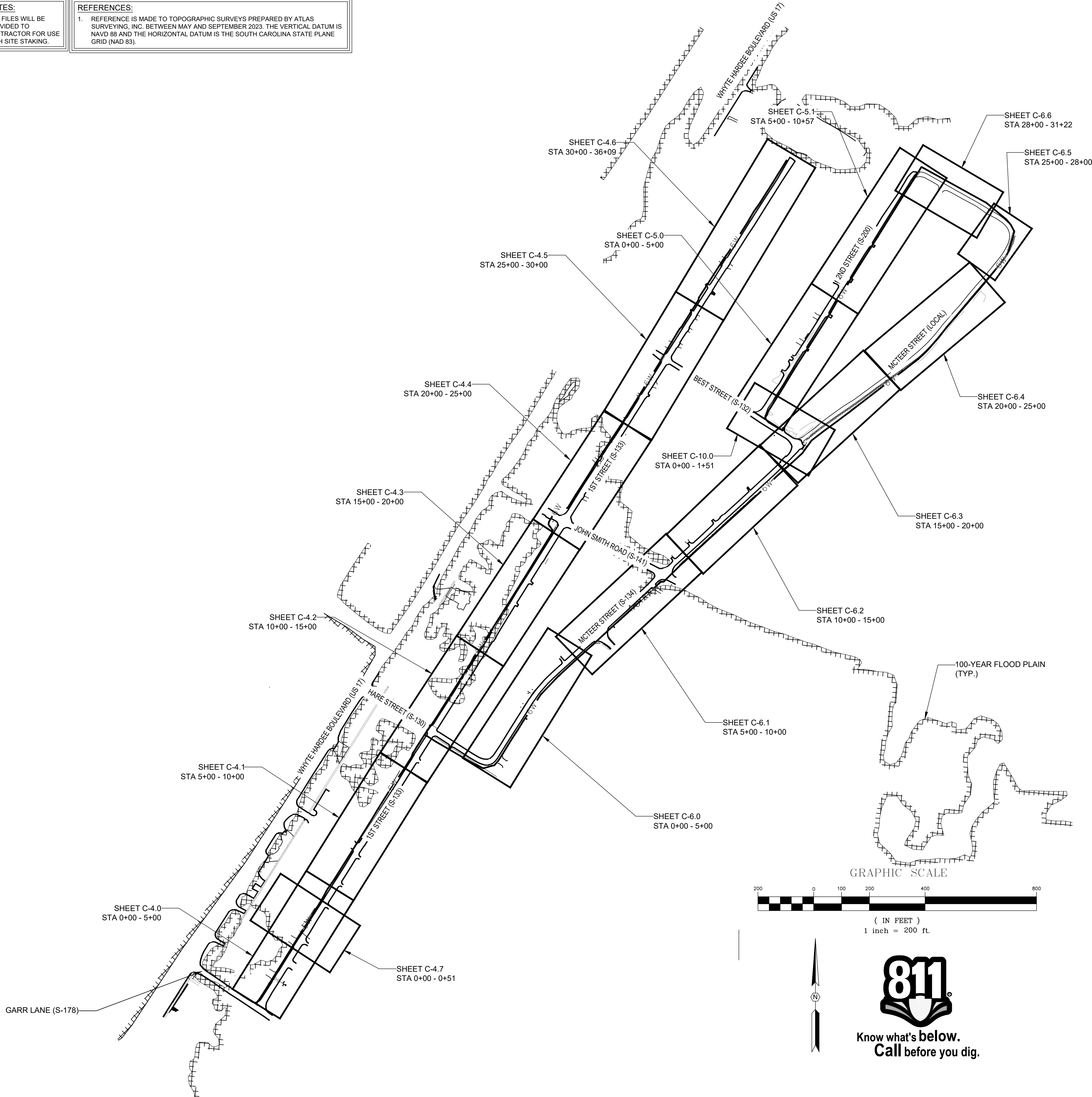
- LOCATIONS, ELEVATIONS AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME OF THE PREPARATION OF THESE DRAWINGS AND DO NOT PURPORT TO BE ABSOLUTELY CORRECT. THE CONTRACTOR SHALL VERIFY THE LOCATIONS, ELEVATIONS AND DIMENSIONS OF ALL EXISTING UTILITIES, STRUCTURES, ETC. AFFECTING THEIR WORK PRIOR TO CONSTRUCTION REFER TO REFERENCES FOR ALL INFORMATION INCORPORATED AS THE EXISTING CONDITIONS. CONTRACTOR TO VERIFY LOCATIONS OF UNDERGROUND UTILITIES AND STORM DRAINAGE PRIOR TO DIGGING AND IS RESPONSIBLE FOR ANY DAMAGES TO EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES WHICH MAY OCCUR DURING CONSTRUCTION.
- CONTRACTOR TO FIELD VERIFY LOCATION AND INVERT ELEVATIONS OF WATER LINES FOR CONNECTION TO EXISTING WATER SYSTEMS. CONTRACTOR TO NOTIFY BJWSA PRIOR TO CONNECTING TO ANY EXISTING WATER FACILITIES AND A BJWSA INSPECTOR MUST BE PRESENT WHILE CONNECTING.

EXISTING UTILITIES AND CONFLICTS

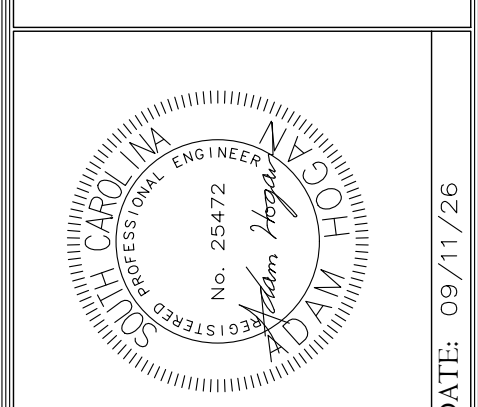
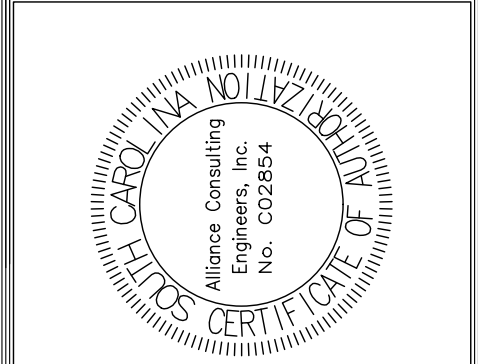
- IF UTILITY FIELD RELOCATIONS ARE REQUIRED, THE CONTRACTOR SHALL COORDINATE THEIR CONSTRUCTION SCHEDULE WITH ALL UTILITY COMPANIES AS WELL AS ANY EFFECTED CITY AND COUNTY DEPARTMENTS BY PROVIDING A MINIMUM OF 48 HOURS NOTICE OF WHEN CONSTRUCTION WILL COMMENCE IN ORDER TO PERMIT FIELD LOCATION OF UTILITY LINES PRIOR TO CONSTRUCTION. THEIR WEBSITE, [HTTPS://SCS11.COM/](https://scs11.com/) OR A TOLL-FREE NUMBER, 1-888-721-7787 IS AVAILABLE TO ASSIST IN SUCH COORDINATION EFFORTS BUT DOES NOT NECESSARILY REPRESENT ALL UTILITY COMPANIES IN THE AREA REFER TO UTILITY PROVIDER CONTACTS.
- ALL UTILITIES SHALL BE KEPT IN OPERATION EXCEPT WITH THE EXPRESS WRITTEN CONSENT OF THE UTILITY OWNER. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PRESERVE EXISTING UTILITIES. ANY DAMAGE TO EXISTING UTILITIES AS A RESULT OF THE CONTRACTOR'S ACTIONS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL CONTACT THE ENGINEER PRIOR TO PROCEEDING WITH ANY SITE WORK WHICH INVOLVES A CONFLICT THAT HAS ARISEN DURING CONSTRUCTION OF ANY WORK SHOWN ON THESE DRAWINGS.
- THE CONTRACTOR SHALL CAREFULLY STUDY AND COMPARE THE CONSTRUCTION DOCUMENTS AND SHALL IMMEDIATELY REPORT THE ENGINEER ANY DISCREPANCIES OR OMISSIONS DISCOVERED ON THE PLANS OR AT THE SITE. THE CONTRACTOR SHALL TAKE FIELD MEASUREMENTS TO VERIFY THAT ALL LOCATIONS ARE CORRECT PRIOR TO COMMENCING CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE APPROPRIATE UTILITY COMPANY OR OWNER AS APPLICABLE TO STABILIZE UTILITY POLES AND REMOVE AND REPLACE EXISTING GUY WIRES AS NECESSARY FOR CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COST ASSOCIATED WITH THIS WORK.
- CONTRACTOR SHALL COORDINATE WITH BEAUFORT JASPER WATER AND SEWER AUTHORITY (BJWSA) PRIOR TO BEGINNING CONSTRUCTION ON THE AUTHORITY'S FACILITIES TO REVIEW MATERIALS. A BJWSA INSPECTOR MUST BE PRESENT WHEN CONNECTING TO THE AUTHORITY'S FACILITIES. A MINIMUM OF 48 HOUR NOTICE SHALL BE GIVEN FOR ANY INSPECTIONS.

PROJECT COMPLETION AND CLOSEOUT

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPLYING AS-BUILT DRAWING INFORMATION INCLUDING, BUT NOT LIMITED TO, FINISHED GRADE ELEVATIONS, TIES TO EXISTING LINES, VALVE STRUCTURES, VALVES, BENDS, SERVICE CONNECTIONS, METERS, ELEVATIONS OF PIPES WHERE DEPTH OF COVER VARIES FROM DESIGN, WASTEWATER OR STORMWATER MANHOLE RIM/TOP AND INVERT ELEVATIONS, CLEANOUTS AND SERVICE CONNECTIONS, PLUS LOCATIONS, DIMENSIONS AND ELEVATIONS OF ALL OTHER CONSTRUCTION COMPONENTS WHICH VARY FROM THE DESIGN.
- CONTRACTOR SHALL WARRANTY ALL WORK AND MATERIALS FOR A MINIMUM PERIOD OF ONE (1) YEAR FROM COMPLETION DATE OF THE PROJECT.



REVISION DATE	
DATE	REVISION DESCRIPTION
05/09/24	ISSUE FOR PERMITTING
05/26/25	ISSUE FOR CONSTRUCTION (SCS 10)
09/11/26	ISSUE FOR BID
APPROVALS	
ENGINEER	ARH
DESIGNER	HMW
TECHNICIAN	MRT
CHECKED BY	ARH
APPROVED	ARH



OVERALL SITE PLAN
(1 OF 2)

GALVANIZED WATER LINE
REPLACEMENT IN THE CITY OF
HARDEEVILLE AND
UNINCORPORATED JASPER
COUNTY

FILE NAME:
22208 - Plans.dwg
REFERENCE FILE:
22208 - Base.dwg
PROJECT NO.
22208-0027

SHEET
C-1.0
OF
C-13.0

DWG NO. 01.1625-D28

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SCDOT CONSTRUCTION NOTES:

NOTIFICATIONS

- SCDOT SHALL BE NOTIFIED WHEN WORK DEFINED IN THIS PERMIT STARTS AS WELL AS WHEN THE WORK IS COMPLETED. SCDOT NOTIFICATION SHALL REFERENCE THE SCDOT PERMIT NUMBER.
- SCDOT SHALL BE GIVEN THE OPPORTUNITY OF ATTENDING ANY PRE-CONSTRUCTION MEETING PRIOR TO THE BEGINNING OF WORK.
- A COPY OF THE APPROVED PERMIT WILL BE MADE AVAILABLE TO THE SCDOT AT THE WORK SITE AT ALL TIMES.
- ALL WORK PERFORMED IN CONNECTION WITH THIS PERMIT SHALL CONFORM TO THE SCDOT "A POLICY FOR ACCOMMODATING UTILITIES ON HIGHWAY RIGHT-OF-WAY" MOST CURRENT EDITION.
- WORK SHALL COORDINATE WITH SCDOT CONTRACTOR AS TO NOT INTERFERE NOR DELAY WORK BEING PERFORMED FOR SCDOT RESURFACING.
- ALL CROSSLINE PIPES ARE TO BE LOCATED AND FLAGGED PRIOR TO BEGINNING OPERATION.
- CONTRACTOR TO MAINTAIN ACCESS TO ALL PROPERTY OWNERS AT ALL TIMES DURING CONSTRUCTION UNTIL FINAL INSPECTION AND APPROVAL IS OBTAINED. IF IN THE COURSE OF CONSTRUCTION DRIVEWAYS ARE TO BE CUT AND ACCESS IMPAIRED THE CONTRACTOR WILL BE RESPONSIBLE TO INFORM EACH RESIDENT OF THE INCONVENIENCE AND THE TIME, DATE AND LENGTH OF THE WORK TO BE DONE. REPLACEMENT OF DRIVEWAY MATERIAL SHALL BE IN KIND.

WORK WITHIN SCDOT R/W

- ALL CLEARING INSIDE THE SCDOT RIGHT-OF-WAY AND FOR ANY PROPOSED TEMPORARY CONSTRUCTION EASEMENTS WILL BE DONE IN ACCORDANCE WITH ALL SCDOT SPECIFICATIONS. ALL STUMPS AND DEBRIS WILL BE REMOVED FROM THE RIGHT-OF-WAY AND DISPOSED OF OFF-SITE BY THE CONTRACTOR. THEN PROPER DRAINAGE WILL WILL BE RESTORED TO ALL DISTURBED AREAS.
- ALL EXCAVATED MATERIAL SHALL BE PLACED ON THE SIDE OF THE TRENCH AWAY FROM THE TRAVELED ROADWAY. NO EXCAVATED MATERIAL OR SPOIL IS TO BE PLACED ON THE PAVEMENT WITHOUT THE PERMISSION OF SCDOT, AND IF PERMISSION IS GRANTED, THIS MATERIAL MUST BE REMOVED DAILY, AS SOON AS POSSIBLE. THE ROADWAY IS TO BE CLEARED OF ALL THE MATERIALS IN A MANNER AS TO PROTECT THE EXISTING PAVEMENT. ANY PAVEMENT DESTROYED, OR MARKED BY THIS OPERATION WILL BE REMOVED AND REPLACED AS REQUIRED.
- ALL VALVES AND MANHOLES SHALL CONFORM TO THE EXISTING ELEVATION OF THE ROADWAY OR SHOULDER AND CONFORM TO THE ACCEPTED STANDARD. WHEN THE VALVES AND MANHOLES WILL BE LOCATED OUT OF THE PAVEMENT, THEY SHALL NOT BE PLACED IN A DITCH FLOW LINE WITHOUT ENGINEER APPROVAL AND 12-INCHES ADDITIONAL COVER. AT CONTRACTORS EXPENSE.
- THERE SHALL BE NO EXCAVATION OF SOIL NEARER THAN TWO FEET FROM ANY PUBLIC UTILITY POLE OR APPURTENANT FACILITY WITHOUT THE WRITTEN CONSENT OF THE OWNER THEREOF. SPECIAL PERMISSION TO THE SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION MAY BE GIVEN AFTER AN OPPORTUNITY TO BE HEARD IS GIVEN TO THE OWNER OF SUCH POLE OR APPURTENANT FACILITY.
- IF THE SIDE OF THE TRENCH, PIT OR ANY EXCAVATION IS WITHIN 3-FT OF THE EXISTING ROADWAY EDGE OF PAVEMENT, THE EXCAVATED AREA WILL BE BACKFILLED ENTIRELY WITH SCDOT-APPROVED BACKFILL TO AN ELEVATION OF 6 INCHES FROM THE EXISTING GROUND ELEVATION. THEN BROUGHT TO GRADE WITH SUITABLE TOPSOIL, COMPACTED TO 95% COMPACTION, GRADED, AND GRASSED AS REQUIRED TO ELIMINATE ANY EROSION.
- APPLICANT SHALL BE RESPONSIBLE FOR THE PLACEMENT OF SECURED STEEL PLATES ON OPEN CUT OF PAVEMENT IF WORK IS INCOMPLETE OR LEFT OVERNIGHT.
- ALL OPEN EXCAVATIONS WITHIN SCDOT RIGHT-OF-WAY SHALL BE PROPERLY BARRICADED WHEN WORK IS NOT BEING PERFORMED. BORE PITS SHALL BE SAFELY SECURED WHEN NOT IN USE AND CLOSED IMMEDIATELY AFTER INSTALLATION.
- ALL PRESSURIZED UTILITY PIPE LINES CROSSING SCDOT ROADWAY EITHER IN AN OPEN CUT OR BY A BORING OPERATION ARE TO BE ENCASED IN A STEEL CASING OR BE DUCTILE IRON PIPE (DIP) AS INDICATED ON PERMIT DRAWINGS.

RESURFACING AND RESTORATION WITHIN SCDOT R/W

- TRENCH TO BE PROPERLY BACK-FILLED AND THOROUGHLY TAMPED PER NOTE 9 IN ACCORDANCE WITH SCDOT STANDARDS. THE ENTIRE DISTURBED AREA SHALL BE RE-SHAPED AND DRESSED IN A WORKMANSHIP LIKE MANNER AND ENSURING POSITIVE DRAINAGE.
- WHEN ROADS ARE RESURFACED, SHOULDERS SHALL BE REGRADED TO THE EDGE OF PAVEMENT TO CONFORM TO SCDOT SPECIFICATIONS.
- THE DITCHES, SHOULDERS, AND/OR DRAIN PIPES DISTURBED, REMOVED, OR OTHERWISE DAMAGED DURING CONSTRUCTION SHALL BE IMMEDIATELY RE-ESTABLISHED TO PROPER GRADE AND ORIGINAL CROSS SECTION TO PROVIDE POSITIVE DRAINAGE, REPLACED OR RESTORED TO ORIGINAL SIZE AND MATERIAL, STABILIZED, AND ALL DRAIN PIPES CLEARED TO ENSURE PROPER AND ADEQUATE DRAINAGE. ANY CHANGE IN PIPE SIZE OR TYPE WILL REQUIRE APPROVAL FROM SCDOT PRIOR TO CHANGE BEING MADE. ANY NEW PIPE WILL REMAIN UNCOVERED UNTIL SCDOT INSPECTION HAS BEEN COMPLETED AT WHICH POINT IT MAY BE COVERED AND COMPACTED AS REQUIRED.
- APPLICANT SHALL COMPLETE ALL REPAIRS OR REPLACEMENTS OF ASPHALT, SIDEWALKS, CURB AND GUTTER, PAVEMENT MARKINGS INCLUDING RPM'S USING THE APPROPRIATE DETAILS PER SCDOT STANDARD SPECIFICATIONS. ANY DISTURBED ITEMS SHALL BE RETURNED TO THEIR ORIGINAL STATE. ANY EXISTING PAVEMENT MARKINGS OR TRAFFIC SIGNAGE ALTERED DURING THE INSTALLATION OF THIS PERMITTED CONSTRUCTION WILL BE REPLACED BY THE PERMITTEE TO THEIR ORIGINAL CONDITION AS SOON AS POSSIBLE.
- APPLICANT SHALL BE RESPONSIBLE FOR ALL PAVEMENT REPAIRS IF BORING PROCEDURE CAUSES ANY DAMAGE TO THE PAVEMENT. IF DAMAGE OCCURS, APPLICANT SHALL NOTIFY THE SCDOT MAINTENANCE PERMITS OFFICE IMMEDIATELY.
- APPLICANT SHALL BE RESPONSIBLE FOR ALL FUTURE MAINTENANCE OF ANY PAVEMENT DISTURBANCE CAUSED BY THE UTILITY INSTALLATION OR REPAIR.
- RESTORATION WORK IS TO BE PERFORMED AS SOON AS POSSIBLE AFTER CONSTRUCTION SUCH THAT CONSTRUCTION IS NO FURTHER THAN 2000-LF AHEAD OF RESTORATION. ANY AREA BEHIND THE WORK ZONE WILL BE RESTORED TO ITS TYPICAL SECTION AND PREPARED FOR FINAL GRADING, AND GRASSING IMMEDIATELY AS WORK PROGRESSES.
- CLEANUP AND EROSION CONTROL MEASURES IN AREAS WHERE CONSTRUCTION HAS BEEN COMPLETED WILL BE CONDUCTED DURING THE LIFE OF THE PROJECT.
- WHEN IN SCDOT RIGHT OF WAY, THE ENTIRE DISTURBED AREA SHALL BE TOP-SOILED USING 3 INCHES OF SELECTED MATERIAL AND RE-GRASSED TO SCDOT SPECIFICATIONS. ALL AREAS DISTURBED SHALL BE RESEEDD AND MONITORED UNTIL VEGETATION IS ESTABLISHED. SEE SCDOT "POLICY FOR SEEDING AND EROSION CONTROL MEASURES INSIDE ROADWAY RIGHTS-OF-WAY".

TRAFFIC CONTROL WITHIN SCDOT R/W

- CONTRACTOR SHALL SUBMIT 40 HOUR NOTIFICATION FORM TO SCDOT AND SHALL OBTAIN AN APPROVED TRAFFIC CONTROL PLAN BEFORE CONSTRUCTION BEGINS.
- FLASHING ARROW BOARDS SHALL BE USED FOR ALL LANE CLOSURES ON PRIMARY ROUTES AND/OR ROADS WITH HIGH TRAFFIC VOLUMES.
- TRAFFIC CONTROL, LIGHTS, SIGNS AND FLAG-MEN WILL BE FURNISHED BY CONTRACTOR AND WILL CONFORM TO PART VI OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMMEDIATE REMOVAL OF SUCH TRAFFIC HAZARDS AS MUD, DEBRIS, LOOSE STONE, AND TRASH AS MAY BE WASHED OR SPILLED ON THE TRAVELED ROADWAY AS A RESULT OF THE PROPOSED WORK.
- TRAFFIC CONTROL SHALL BE PROVIDED AND MAINTAINED BY THE CONTRACTOR PER SCDOT SPECIFICATIONS AND STANDARD DRAWING SERIES 601 AND 610, AS APPLICABLE, AND PER MUTCD SPECIFICATION SECTION 6H.01 (LATEST EDITION).
- CONTRACTOR SHALL ENSURE ALL TRAFFIC SAFETY IS UPHELD AND PROVIDE ONE (1) LANE OPEN AT ALL TIMES.

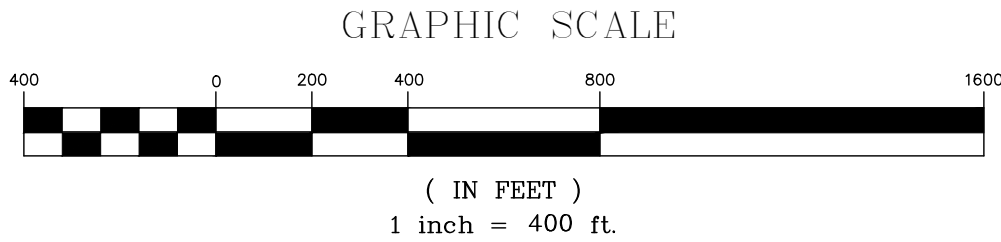
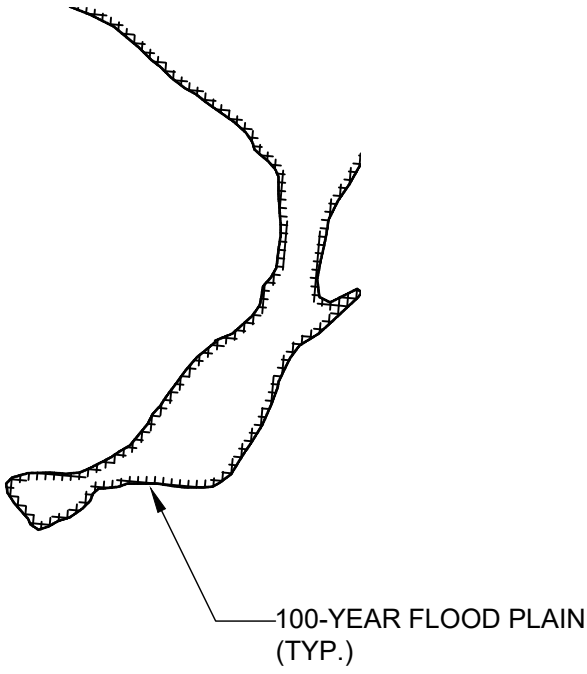
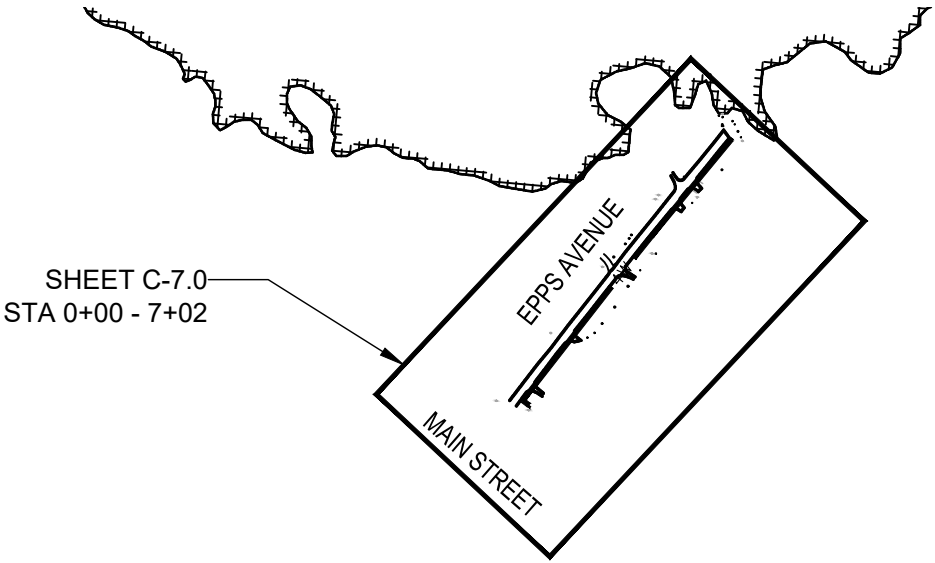
GENERAL CONSTRUCTION LAND DISTURBANCE NOTES:
SEE SHEET C-11.0 - C-11.1 FOR EROSION CONTROL
DETAILS AND SCDES STANDARD NOTES

SCDES LAND DISTURBANCE SEQUENCE

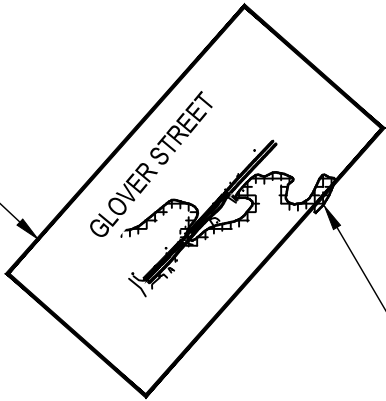
- RECEIVE NPDES APPROVAL FROM SCDES.
- SCHEDULE PRE-CONSTRUCTION MEETING.
- NOTIFY BEAUFORT JASPER WATER AND SEWER AUTHORITY (BJWSA)/SCDES EQC REGIONAL OFFICE 48 HOURS PRIOR TO ANY LAND DISTURBING ACTIVITIES.
- INSTALL TEMPORARY CONSTRUCTION ENTRANCE(S) AND PERIMETER AND EROSION CONTROLS (I.E. SILT FENCE, SEDIMENT TUBE) AS SHOWN AND AS NECESSARY.
- BEGIN CONSTRUCTION WORK (I.E. CLEARING AND GRUBBING, UTILITY INSTALLATION, ETC.) CONTRACTOR TO MONITOR AND MAINTAIN PERIMETER AND EROSION CONTROL MEASURES THROUGHOUT CONSTRUCTION UNTIL FINAL STABILIZATION IS ACHIEVED, INCLUDING REPLACEMENT OF MEASURES AS NEEDED.
- CONTRACTOR TO RE-GRADE AND STABILIZE PROJECT AREA AS CONSTRUCTION IS COMPLETED.
- CONTRACTOR MAY REMOVE PERIMETER AND EROSION CONTROL DEVICES ONCE FINAL STABILIZATION OF ENTIRE PROJECT AREA IS ACHIEVED.
- SUBMIT NOTICE OF TERMINATION (NOT) TO SCDES.

ENVIRONMENTAL PROTECTION AND EROSION CONTROL NOTES

- CONTRACTOR TO INSTALL SILT FENCE ON LOW SIDE OF LIMITS OF DISTURBANCE FOR THE ENTIRE LENGTH OF THE PROJECT.
- CONTRACTOR TO UTILIZE DOUBLE ROW SILT FENCE ALONG THE LOW SIDE OF THE LIMITS OF DISTURBANCE SUCH THAT AN UNDISTURBED BUFFER IS MAINTAINED BETWEEN THE SILT FENCE AND THE SENSITIVE AREA WHEN CONSTRUCTION IS ADJACENT TO SENSITIVE AREAS SUCH AS WETLANDS OR WATER BODIES. THIS INCLUDES INSTALLING DOUBLE ROW SILT FENCE AT THE START AND END OF BORES FOR TRENCHLESS INSTALLATIONS AND IMPLEMENTATION OF BANK PROTECTION AND STABILIZATION AS NEEDED.
- CONTRACTOR TO UTILIZE SEDIMENT TUBES AS INLET PROTECTION AT STORM DRAINS AND UTILIZE SEDIMENT TUBES AND/OR EROSION CONTROL MATTING TO ENSURE PROPER STABILIZATION AND EROSION CONTROL WITHIN DRAINAGE DITCHES.
- ALL WATER COLLECTED AND PUMPED DURING DEWATERING ACTIVITIES SHALL BE DISPOSED OF IN UNDISTURBED UPLAND AREAS INTO DOUBLE STAKED HAY BALES. DISCHARGE LOCATIONS SHALL BE OVER UNDISTURBED SOIL, A MINIMUM OF 75 FEET FROM THE NEAREST WATER BODY, WETLAND AREA, OR INLET TO ALLOW FOR MAXIMUM OVERLAND FILTRATION OF SOIL PARTICLES.
- CONTRACTOR SHALL NOT REMOVE ANY TREES OTHER THAN THOSE SPECIFICALLY SHOWN TO BE REMOVED. CONTRACTOR SHALL TAKE PRECAUTIONS TO PROTECT ALL TREES NOT SPECIFICALLY SHOWN TO BE REMOVED. NO ACTIVITIES (EQUIPMENT, FILL PLACEMENT, ETC.) SHALL TAKE PLACE WITHIN THE DRIPLINE OF THE TREES TO REMAIN. IF NECESSARY, THE CONTRACTOR SHALL PROTECT TREES WITH SUITABLE BARRICADES.
- CONTRACTOR SHALL INSTALL CONSTRUCTION ENTRANCES AT ALL LOCATIONS WHERE CONSTRUCTION TRAFFIC ACCESSES A PAVED ROADWAY.

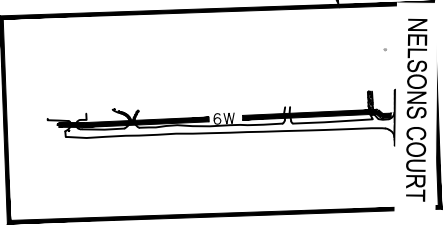


SHEET C-8.0
STA 0+00 - 2+48

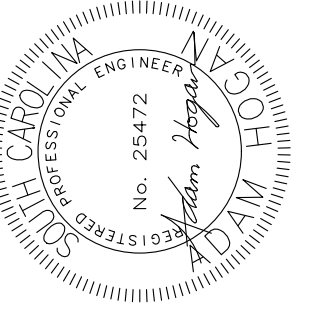
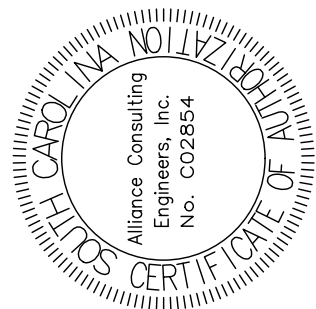


100-YEAR FLOOD PLAIN
(TYP.)

SHEET C-9.0
STA 0+00 - 6+96



REVISION DATE	
DATE	REVISION DESCRIPTION
05/09/24	ISSUE FOR PERMITTING
05/26/25	ISSUE FOR CONSTRUCTION (SCDES LD)
09/11/26	ISSUE FOR BID
APPROVALS	
ENGINEER	ARH
DESIGNER	HMW
TECHNICIAN	MRT
CHECKED BY	ARH
APPROVED	ARH



DATE: 09/11/26

ALLIANCE

CONSULTING ENGINEERS

124 Verde Hills Blvd., Suite 100
Jasper, SC 29067
Phone: (864) 284-1740 • Fax: (864) 284-1741

OVERALL SITE PLAN
(2 OF 2)

PROJECT

ALLIANCE

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Jasper, SC 29067
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OVERALL SITE PLAN
(2 OF 2)

PROJECT

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OVERALL SITE PLAN
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OVERALL SITE PLAN
(2 OF 2)

PROJECT

FILE NAME:
22208 - Plans.dwg

REFERENCE FILE:
22208 - Base.dwg

PROJECT NO.
22208-0027

SHEET
C-1.1
OF
C-13.0

DWG NO. 01.1625-D28

JASPER COUNTY

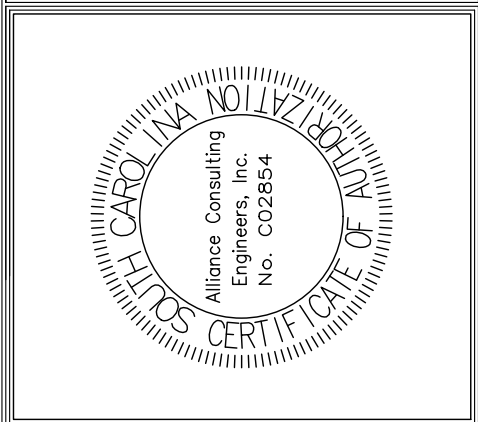
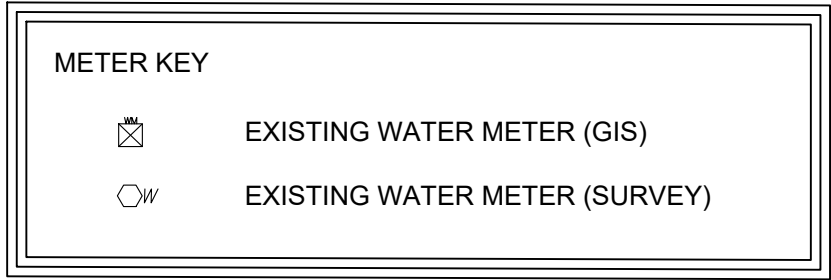
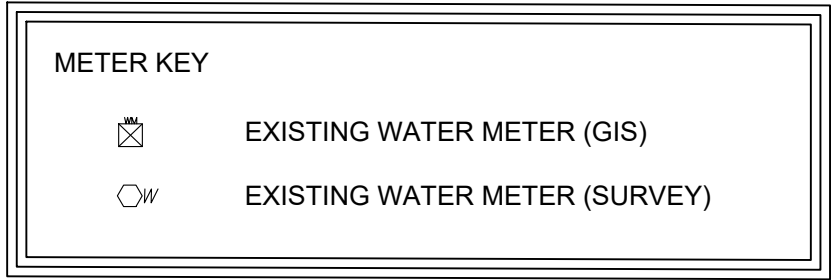
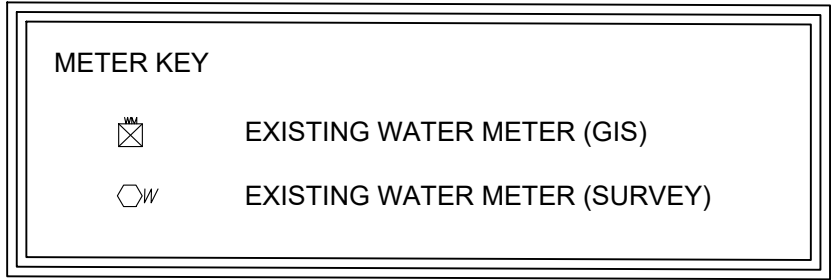
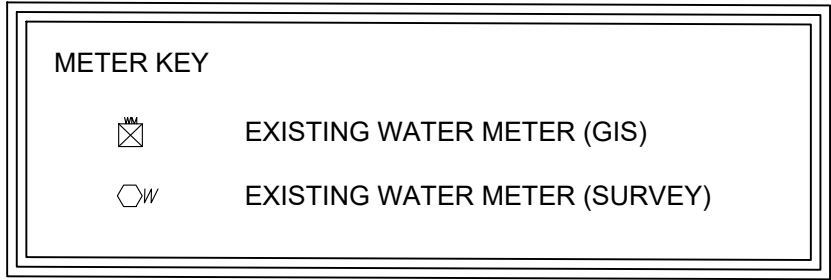
SOUTH CAROLINA

DATE: SEPTEMBER 2026

SCALE: AS SHOWN

METER KEY	
	EXISTING WATER METER (GIS)
	EXISTING WATER METER (SURVEY)

METER KEY	
	EXISTING WATER METER (GIS)
	EXISTING WATER METER (SURVEY)



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CONSULTING ENGINEERS

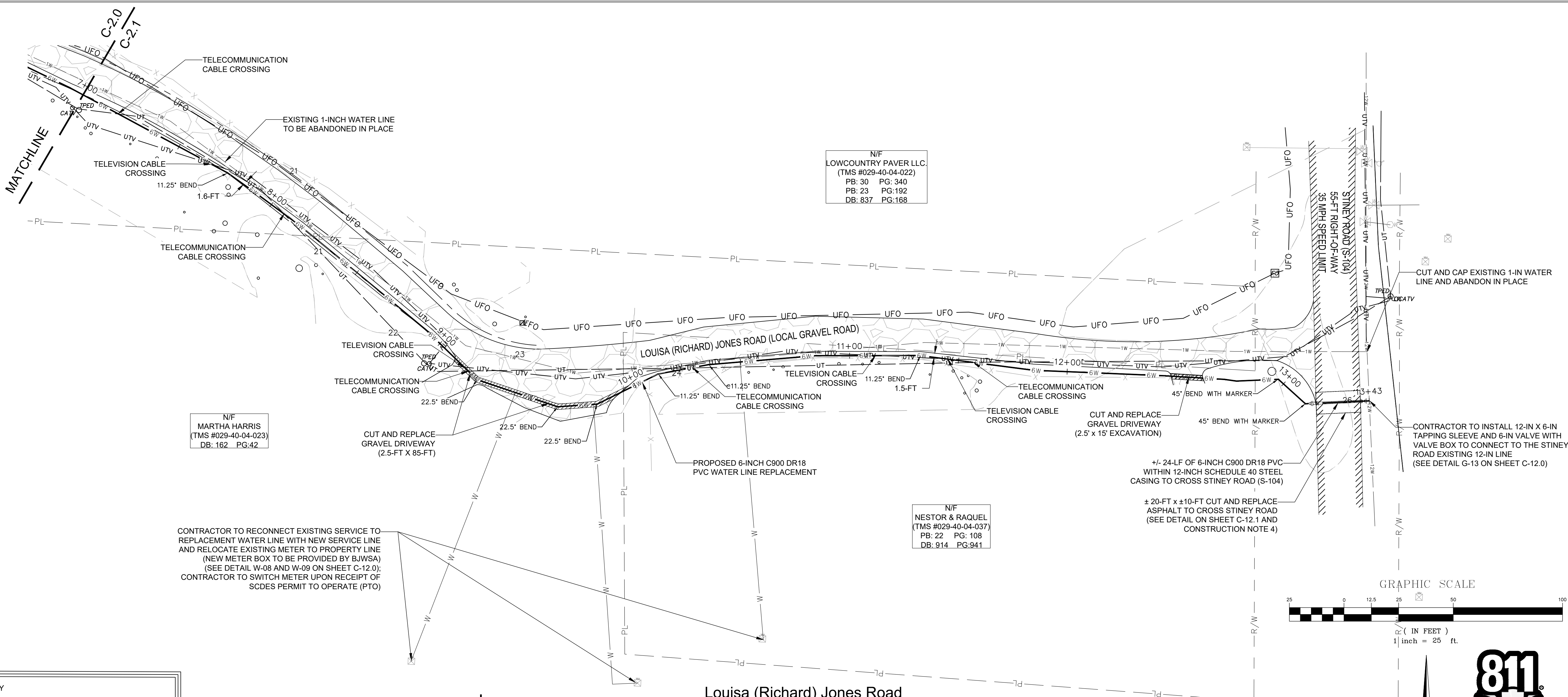
Alliance Consulting Engineers, Inc.
124 Verda Blvd. • Bonaventure II, Suite 305 • Greenville, SC 29607
Phone (864) 284-1740 • Fax (864) 284-1741

WATER LINE PLAN AND PROFILE
LOUISA (RICHARD) JONES ROAD
STA. 0+00 - 7+00

DATE: SEPTEMBER 2026 SCALE: AS SHOWN

PROJECT GALVANIZED WATER LINE
REPLACEMENT IN THE CITY OF
HARDEEVILLE AND
UNINCORPORATED JASPER
COUNTY

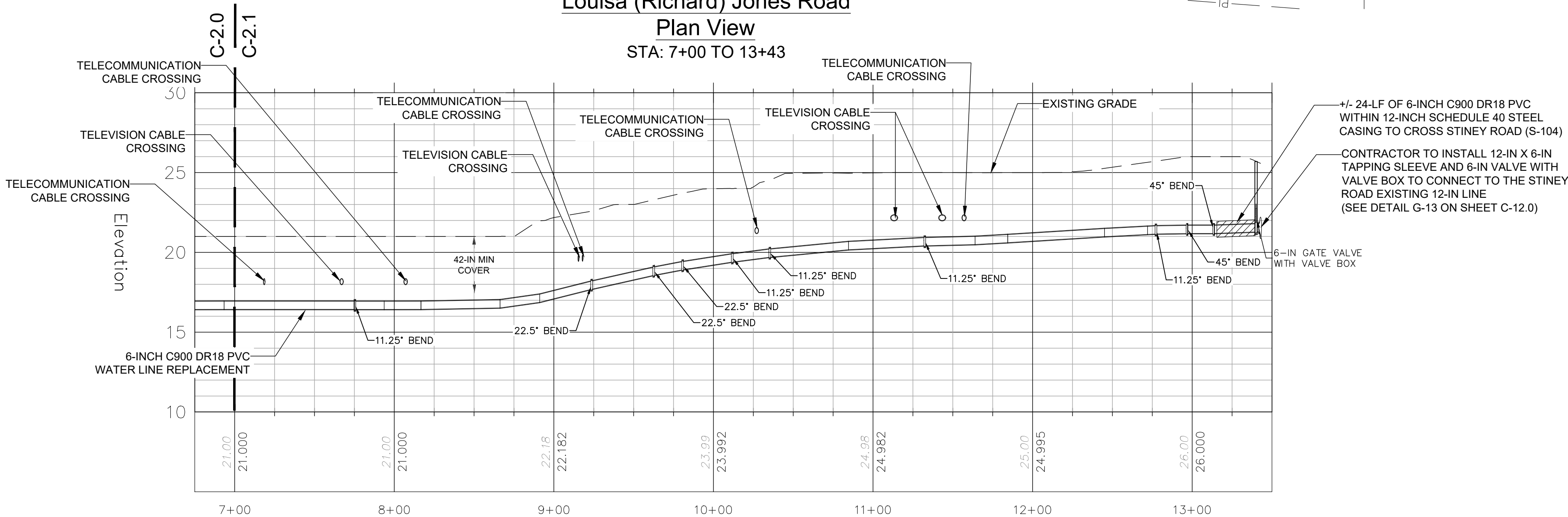
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Louisa (Richard) Jones Road

Plan View

STA: 7+00 TO 13+43



Louisa (Richard) Jones Road

Plan View

STA: 7+00 TO 13+43

HORIZONTAL SCALE: 1" = 50'

VERTICAL SCALE: 1" = 5'

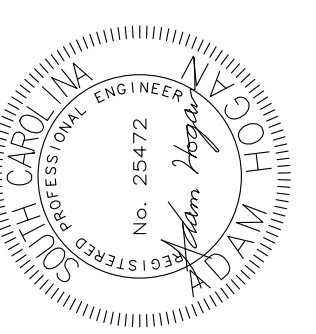
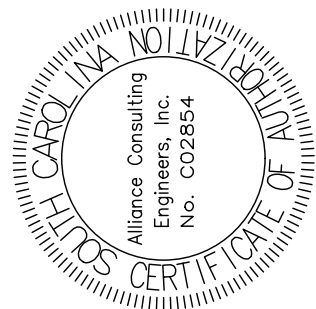
METER KEY

- EXISTING WATER METER (GIS)
- EXISTING WATER METER (SURVEY)

CONSTRUCTION NOTES:

- CONTRACTOR TO REMOVE AND REPLACE MAILBOXES, SIGNS, AND OTHER STRUCTURES WITHIN THE PROPOSED CONSTRUCTION AREA TO AVOID DAMAGE DURING CONSTRUCTION.
- CONTRACTOR TO FIELD-LOCATE ALL EXISTING UTILITIES AND STORM DRAINAGE INFRASTRUCTURE PRIOR TO DIGGING AND MAINTAIN MINIMUM 1.5-FT VERTICAL SEPARATION BETWEEN EXISTING UTILITIES AND PROPOSED WATER LINES.
- ALL WATER LINE CROSSING MUST BE CONSTRUCTED PER THE BEAUFORT JASPER WATER AND SEWER AUTHORITY (BJWSA) STANDARD DETAILS. CONTRACTOR IS RESPONSIBLE FOR REMEDIATION OF ANY DAMAGES WHICH OCCUR DURING CONSTRUCTION. CONTRACTOR IS TO MAINTAIN A MINIMUM OF 10-FT HORIZONTAL SEPARATION FROM WASTEWATER LINES, A MINIMUM 3-FT HORIZONTAL SEPARATION FROM STORM DRAINAGE INFRASTRUCTURE, AND A MINIMUM 5-FT SEPARATION FROM GAS LINES. CONTRACTOR TO NOTIFY BJWSA IF SEPARATION CANNOT BE MAINTAINED AND COORDINATE WITH BJWSA PRIOR TO INSTALLATION OF WATER LINE.
- CONTRACTOR TO RESURFACE ALL DRIVEWAY/ROADWAY CROSSING INDICATED AS CUT AND REPLACE WITH LIKE MATERIALS PER SCDOT REQUIREMENTS. DRIVEWAYS TO BE RESURFACED FROM EDGE OF PAVEMENT TO EDGE OF RIGHT-OF-WAY, AND ROADWAYS TO BE RESURFACED RADIUS TO RIGHT-OF-WAY. SEE SCDOT STANDARDS DETAILS AND SUPPLEMENTAL CUT AND REPLACE DETAIL. CONTRACTOR TO UTILIZE SCDOT-APPROVED BACKFILL IF TRENCH IS WITHIN 3-FT OF EDGE OF PAVEMENT.
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- ALL CASINGS TO EXTEND AT LEAST 5-FT BEYOND THE EDGE-OF-PAVEMENT WHERE FEASIBLE.

REVISION DATE	
DATE	REVISION DESCRIPTION
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05/26/25	ISSUE FOR CONSTRUCTION (SCDES LD)
09/11/26	ISSUE FOR BID
APPROVALS	
ENGINEER	ARH
DESIGNER	HMW
TECHNICIAN	MRT
CHECKED BY	ARH
APPROVED	ARH



DATE: 09/11/26

ALLIANCE
CONSULTING ENGINEERS

Alliance Consulting Engineers, Inc. SC 29607
124 Venable Blvd., Suite 200
Phone: (864) 284-1740 • Fax: (864) 284-1741

WATER LINE PLAN AND PROFILE
LOUISA (RICHARD) JONES ROAD
STA. 7+00 - 13+43

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

PROJECT SHEET

GALVANIZED WATER LINE
REPLACEMENT IN THE CITY OF
HARDEEVILLE AND
UNINCORPORATED JASPER
COUNTY

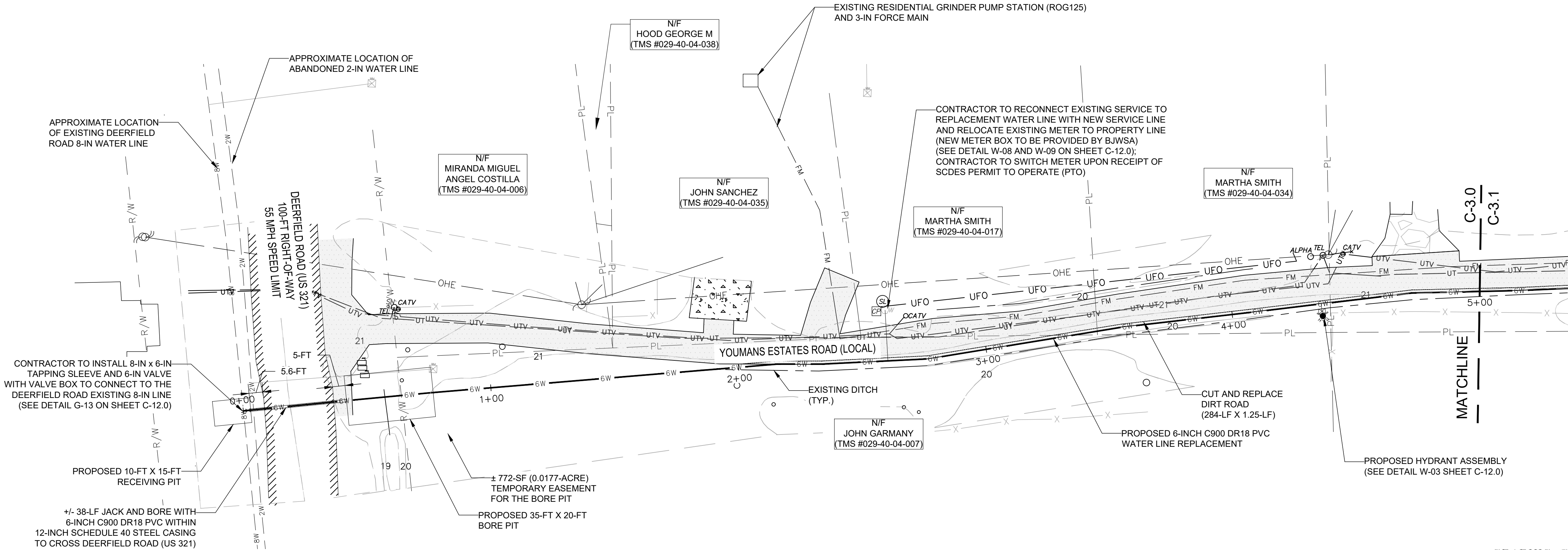
PROJECT

SOUTH CAROLINA
JASPER COUNTY

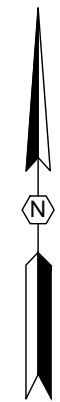
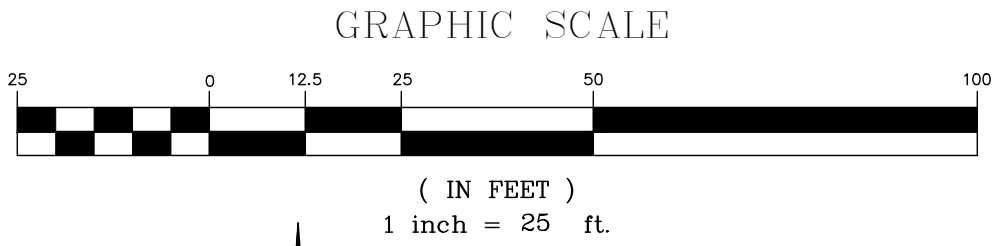
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REFERENCE FILE:	22208 - Base.dwg	OF	C-13.0
PROJECT NO.	22208-0027		

DWG NO. 01.1625-D28

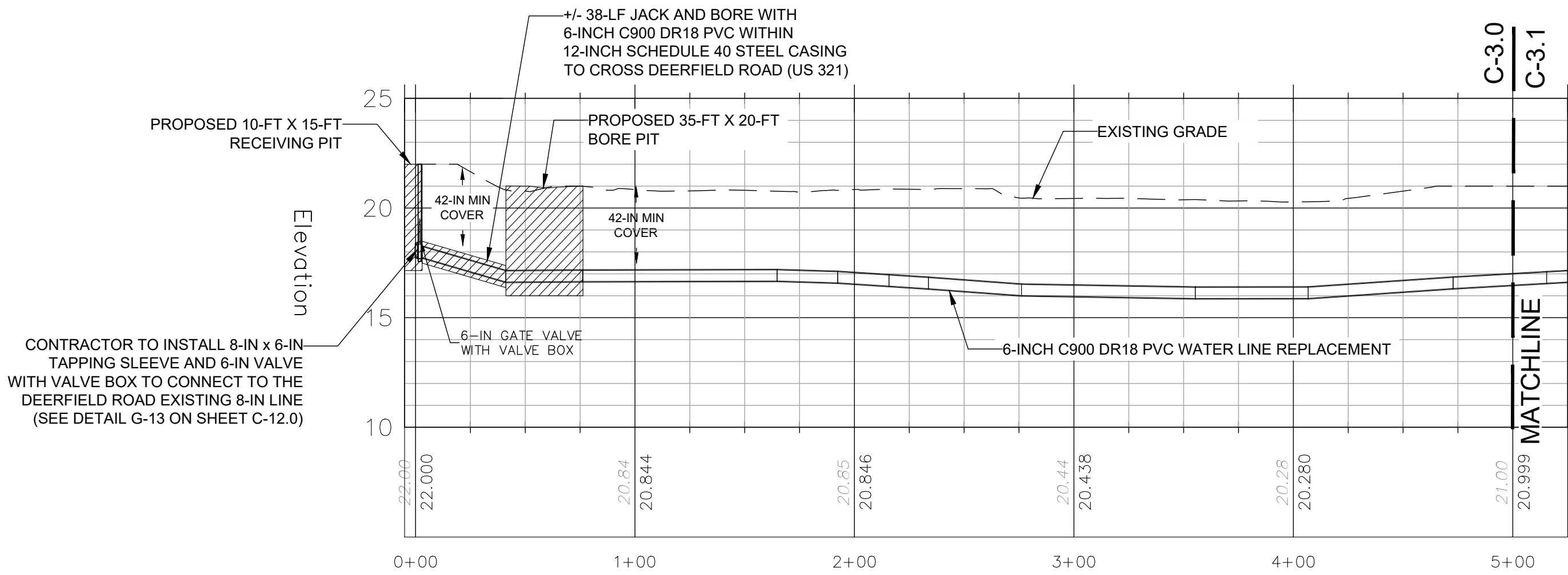
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Youmans Estates Road
Plan View
STA: 0+00 TO 5+00



Know what's below.
Call before you dig.



Youmans Estates Road
Profile View
STA: 0+00 TO 5+00
HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 5'

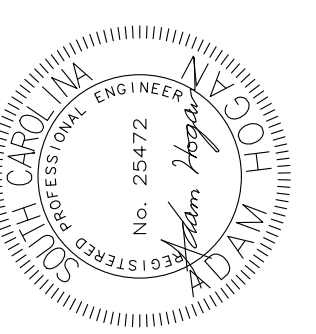
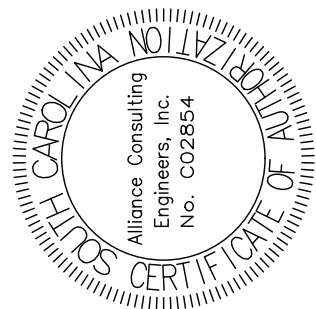
METER KEY

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DATE	REVISION DESCRIPTION
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05/26/25	ISSUE FOR CONSTRUCTION (SCDES LD)
09/11/26	ISSUE FOR BID
APPROVALS	
ENGINEER	ARH
DESIGNER	HMW
TECHNICIAN	MRT
CHECKED BY	ARH
APPROVED	ARH



DATE: 09/11/26

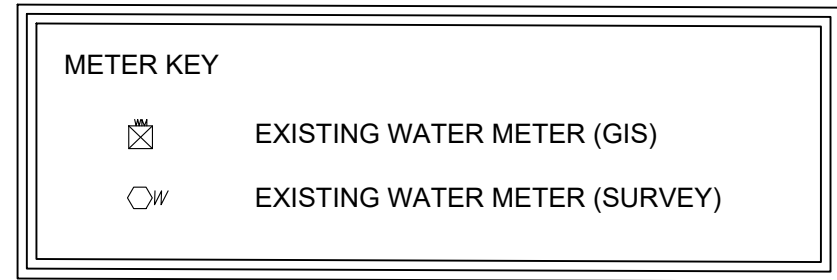
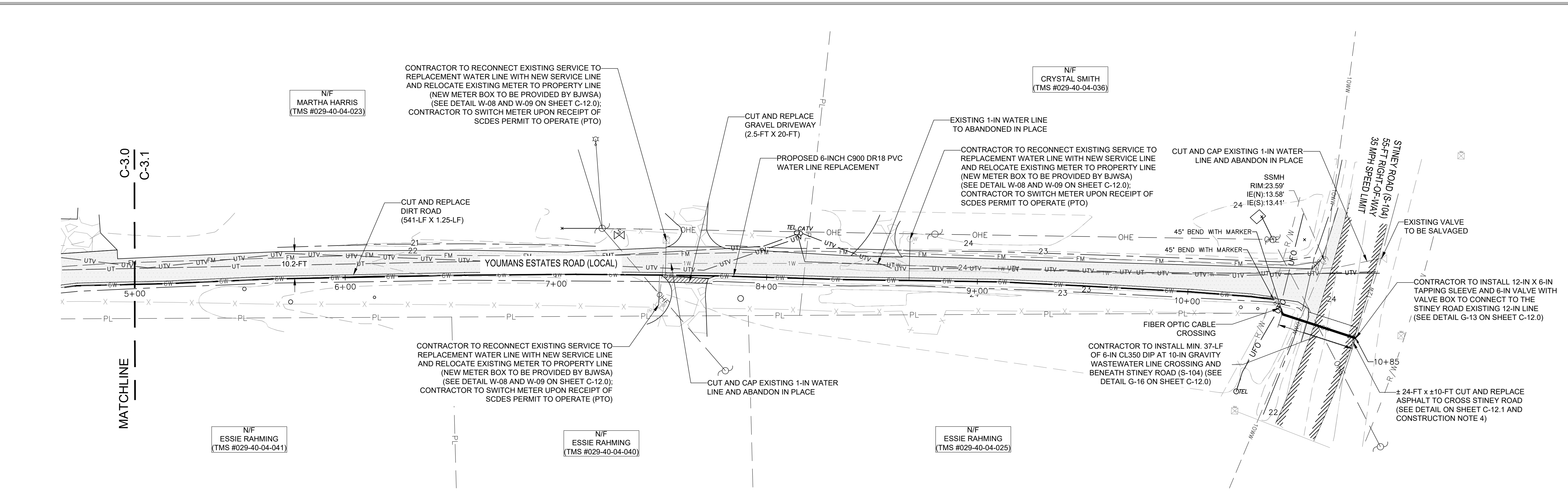
ALLIANCE CONSULTING ENGINEERS
Alliance Consulting Engineers, Inc. SC 29607
124 Venable Blvd., Suite 200, Charleston, SC 29405
Phone: (864) 284-1740 • Fax: (864) 284-1741

WATER LINE PLAN AND PROFILE
YOUMANS ESTATES ROAD
STA. 0+00 - 5+00
SCALE: AS SHOWN

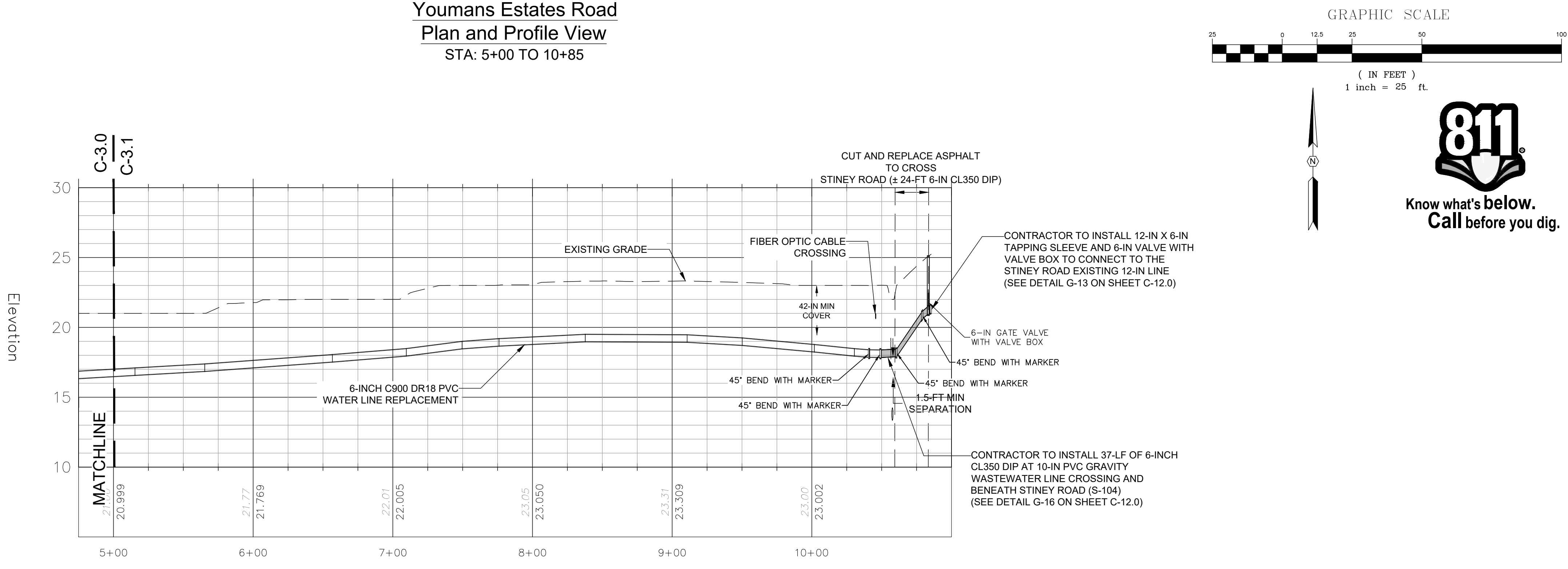
GALVANIZED WATER LINE
REPLACEMENT IN THE CITY OF
HARDEEVILLE AND
UNINCORPORATED JASPER
COUNTY
SOUTH CAROLINA
JASPER COUNTY

FILE NAME: 22208 - Plans.dwg
REFERENCE FILE: 22208 - Base.dwg
PROJECT NO. 22208-0027
SHEET C-3.0 OF C-13.0

DWG NO. 01.1625-D28

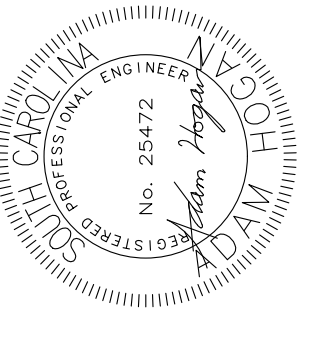


- CONSTRUCTION NOTES:**
1. CONTRACTOR TO REMOVE AND REPLACE MAILBOXES, SIGNS, AND OTHER STRUCTURES WITHIN THE PROPOSED CONSTRUCTION AREA TO AVOID DAMAGE DURING CONSTRUCTION.
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 9. ALL CASINGS TO EXTEND AT LEAST 5-FT BEYOND THE EDGE-OF-PAVEMENT WHERE FEASIBLE.



Youmans Estates Road
Profile View
 STA: 5+00 TO 10+85
 HORIZONTAL SCALE: 1" = 50'
 VERTICAL SCALE: 1" = 5'

	REVISION DATE	
	DATE	REVISION DESCRIPTION
	05/09/24	ISSUE FOR PERMITTING
	03/26/25	ISSUE FOR CONSTRUCTION (SCDS LD)
	09/11/26	ISSUE FOR R/D
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		



DATE: 09/11/26



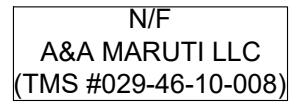
ALLIANCE
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124 Vedau Blvd. • Bonaventure II, Suite 305 • Greenville, SC 29607
Phone: (864) 284-1740 • fax: (864) 284-1741

DATE: SEPTEMBER 2026 SCALE: AS SHOWN

PROJECT GALVANIZED WATER LINE
REPLACEMENT IN THE CITY OF
HARDEEVILLE AND
UNINCORPORATED JASPER
COUNTY

FILE NAME: 22208 - Plans.dwg	SHEET <u>C-3.1</u>
REFERENCE FILE: 22208 - Base.dwg	OF
PROJECT NO. 22208-0027	<u>C-13.0</u>
DWG NO. 01,1625-D28	



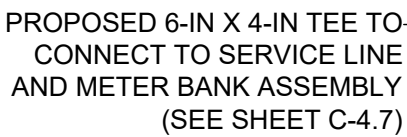
N/F
RAMIREZ
MARTIN SALGADO
(TMS #029-46-10-007)

N/F
LUCIA E WALLING
(TMS #029-46-10-027)

 EXISTING WATER METER (GIS)

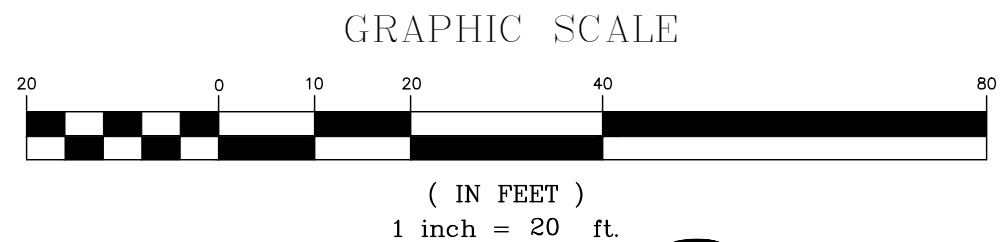
 EXISTING WATER METER (SURVEY)

1. CONTRACTOR TO REMOVE AND REPLACE MAILBOXES, SIGNS, AND OTHER STRUCTURES WITHIN THE PROPOSED CONSTRUCTION AREA TO AVOID DAMAGE DURING CONSTRUCTION.
2. CONTRACTOR TO FIELD-LOCATE ALL EXISTING UTILITIES AND STORM DRAINAGE INFRASTRUCTURE PRIOR TO DIGGING AND MAINTAIN MINIMUM 1.5-FT VERTICAL SEPARATION BETWEEN EXISTING UTILITIES AND PROPOSED WATER LINES.
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8. ALL BENDS 45 DEGREES OR GREATER ON PRESSURE MAIN REQUIRE A CONCRETE MARKER (MARKER IN VALVE DETAIL G-12 ON SHEET C-12.0).
9. ALL CASINGS TO EXTEND AT LEAST 5-FT BEYOND THE EDGE-OF-PAVEMENT WHERE FEASIBLE.

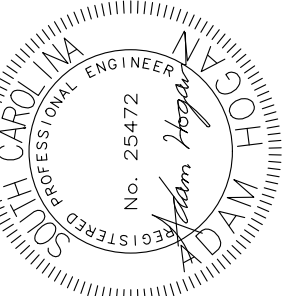


STA: 0+00 TO 5+00

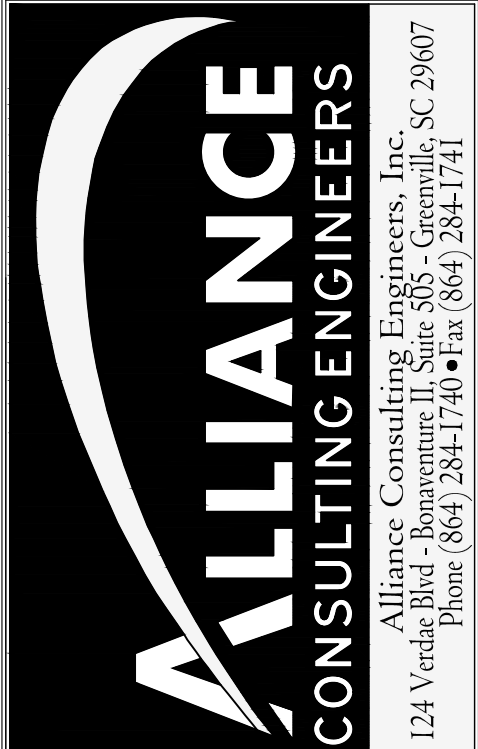
1st Street
Profile View
STA: 0+00 TO 5+00
HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 5'



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



DATE: 09/11/26



LEADS SHEET

WATER LINE PLAN AND PROFILE
1ST STREET
STA. 0+00 - 5+00

STA. 0+00 - 5+00

SCALE: AS SHOWN

DATE: SEPTEMBER 2026

SOUTH CAROLINA

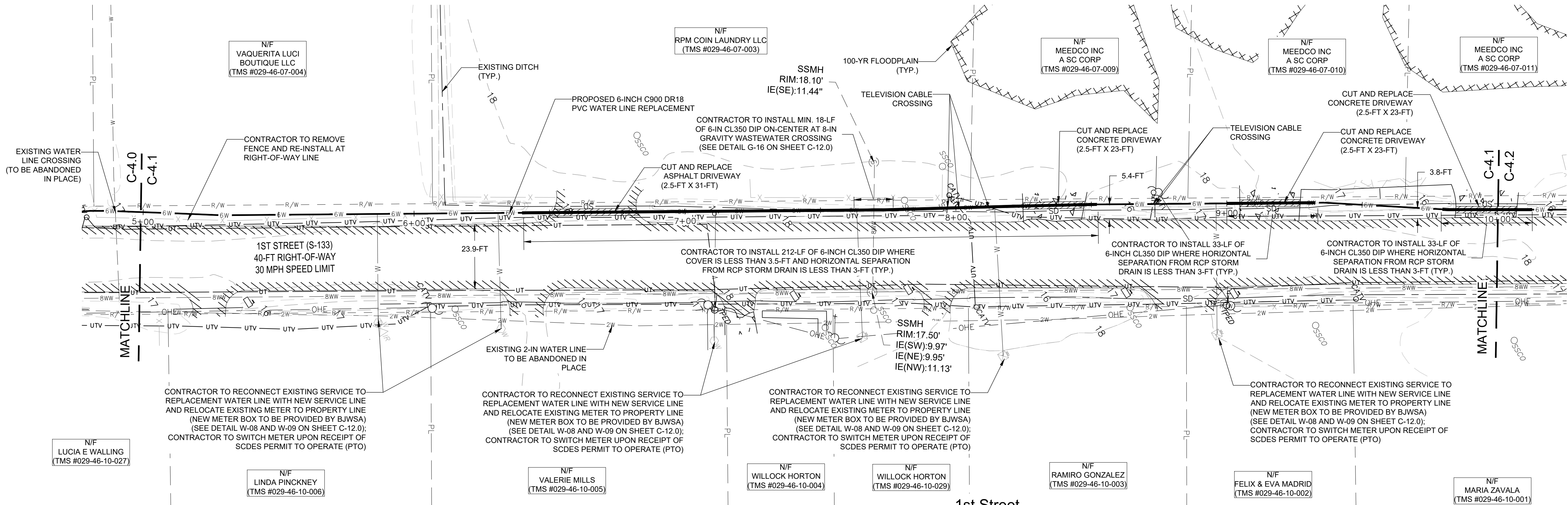
JASPER COUNTY

FILE NAME:	22208 - Plans.dwg
REFERENCE FILE:	22208 - Base.dwg
PROJECT NO.	22208-0027

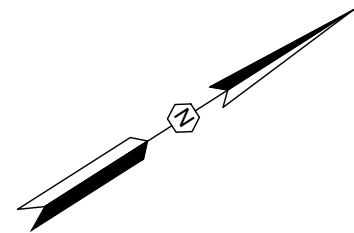
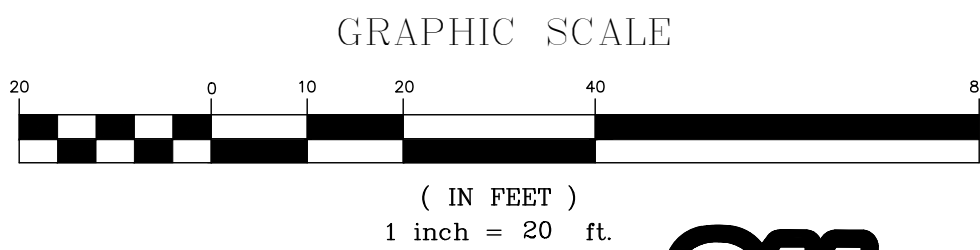
SHEET
C-4.0
OF
C-13.0

DWG NO. 01,1625-D28

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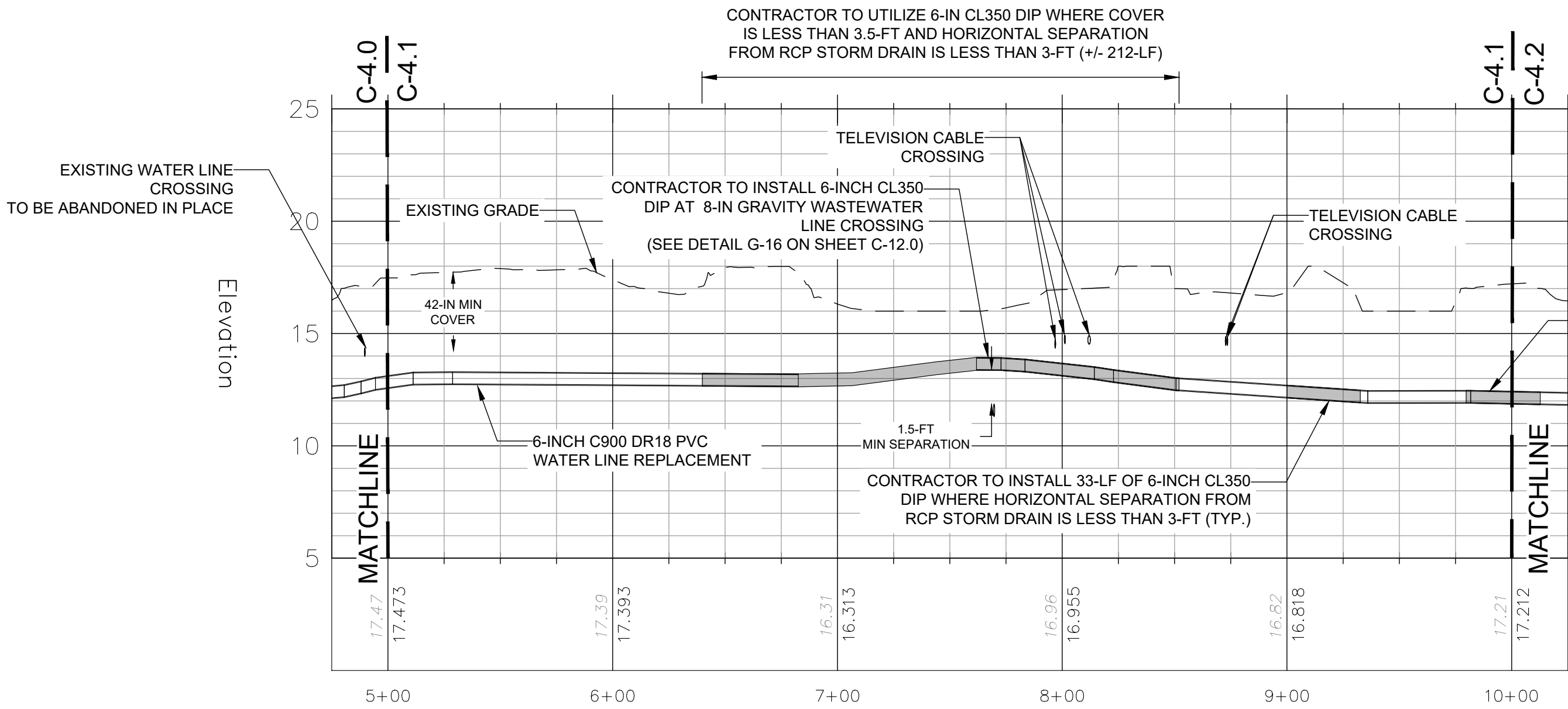
1st Street
Plan View
STA: 5+00 TO 10+00



METER KEY	
	EXISTING WATER METER (GIS)
	EXISTING WATER METER (SURVEY)

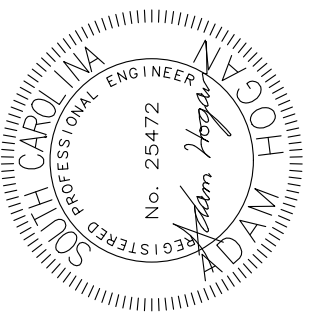
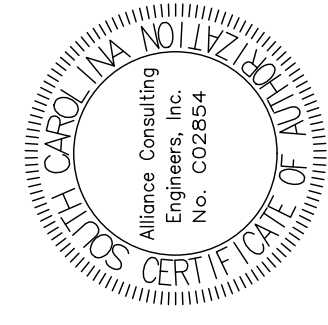
CONSTRUCTION NOTES:

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1st Street
Profile View
STA: 5+00 TO 10+00
HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 5'

REVISION DATE	
DATE	REVISION DESCRIPTION
05/09/24	ISSUE FOR PERMITTING
05/26/25	ISSUE FOR CONSTRUCTION (SCDES LD)
09/11/26	ISSUE FOR BID
APPROVALS	
ENGINEER	ARH
DESIGNER	HMW
TECHNICIAN	MRT
CHECKED BY	ARH
APPROVED	ARH



DATE: 09/11/26

ALLIANCE
CONSULTING ENGINEERS

Alliance Consulting Engineers, Inc.
124 Venable Blvd., Suite 200
Phone: (864) 284-1740 • Fax: (864) 284-1741

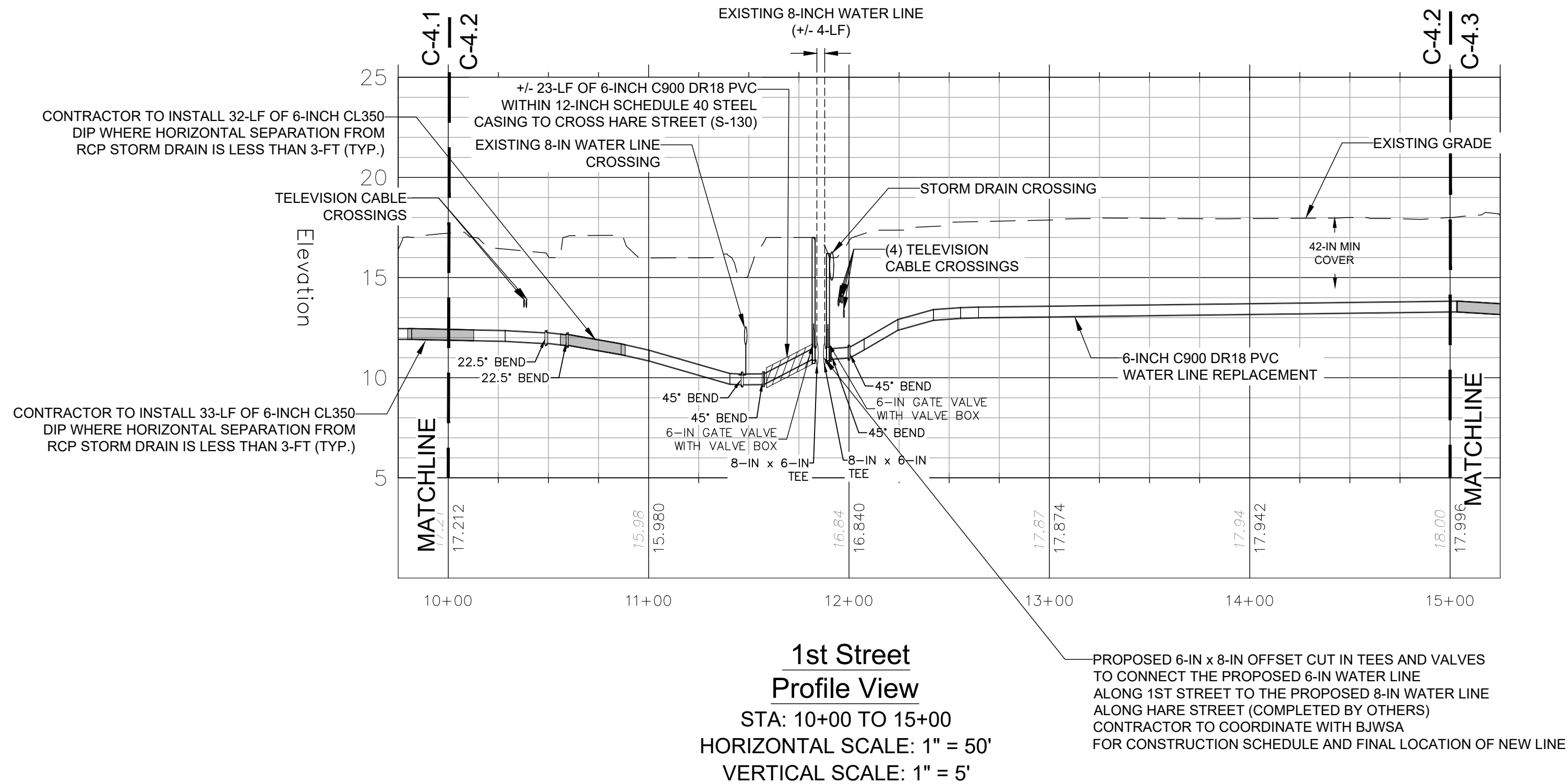
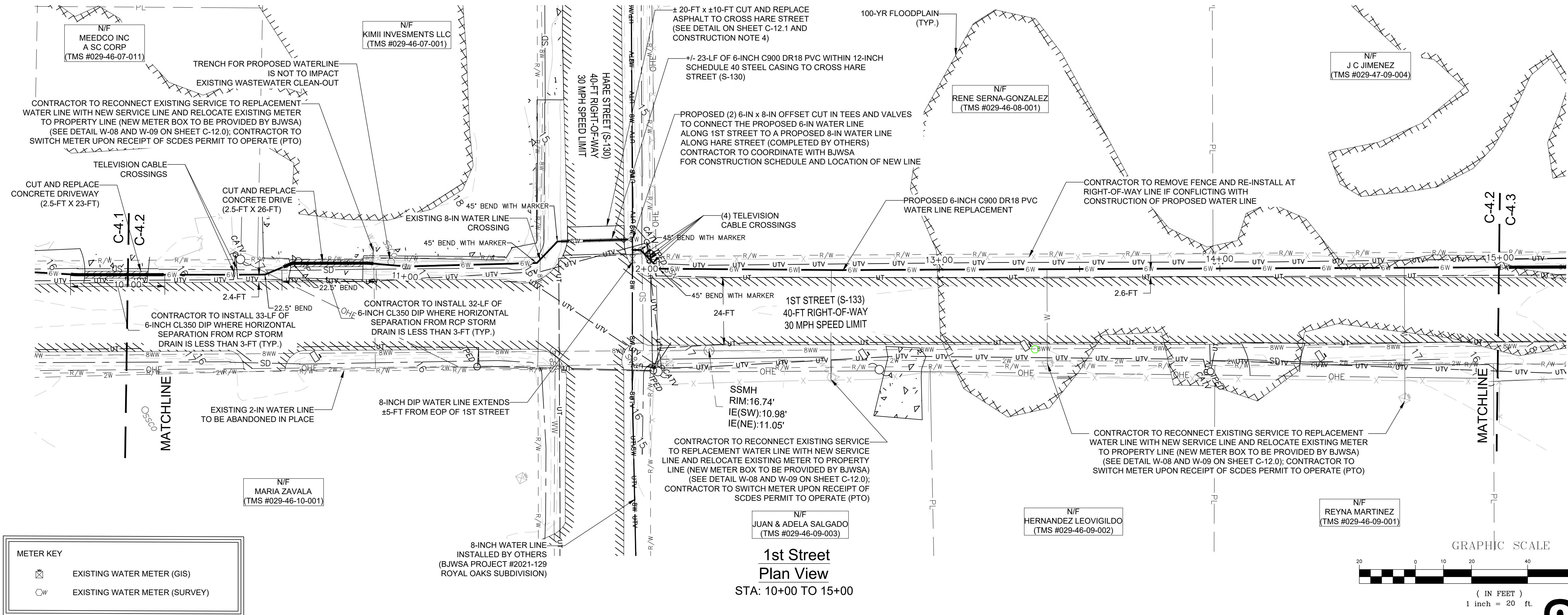
WATER LINE PLAN AND PROFILE
1ST STREET
STA. 5+00 - 10+00

GALVANIZED WATER LINE
REPLACEMENT IN THE CITY OF
HARDEEVILLE AND
UNINCORPORATED JASPER
COUNTY

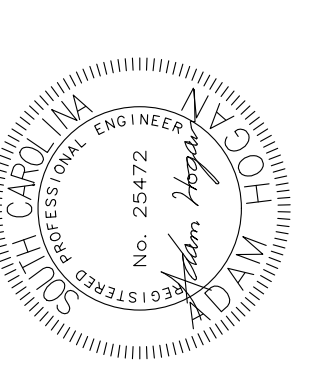
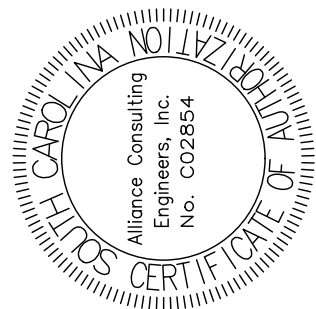
FILE NAME:	22208 - Plans.dwg	SHEET	C-4.1
REFERENCE FILE:	22208 - Base.dwg	OF	C-13.0
PROJECT NO.	22208-0027		

DWG NO. 01.1625-D28

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REVISION DATE	
DATE	REVISION DESCRIPTION
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05/26/25	ISSUE FOR CONSTRUCTION (SCDES LD)
09/11/26	ISSUE FOR BID
APPROVALS	
ENGINEER	DESIGNER
ARH	HMW
TECHNICIAN	CHECKED BY
MRT	ARH
APPROVED	ARH



ALLIANCE CONSULTING ENGINEERS

Alliance Consulting Engineers, Inc. SC 29607
124 Venable Blvd., Suite 100, Charleston, SC 29405
Phone: (864) 284-1740 • Fax: (864) 284-1741

WATER LINE PLAN AND PROFILE
1ST STREET
STA. 10+00 - 15+00

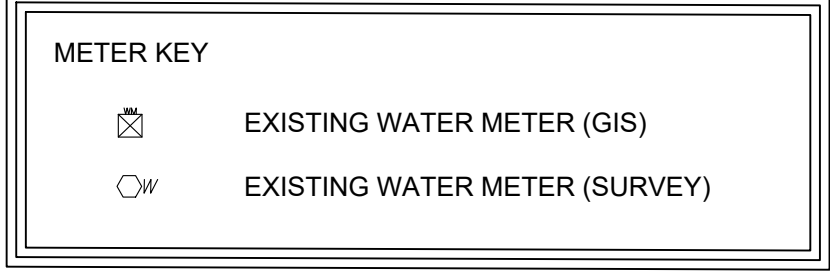
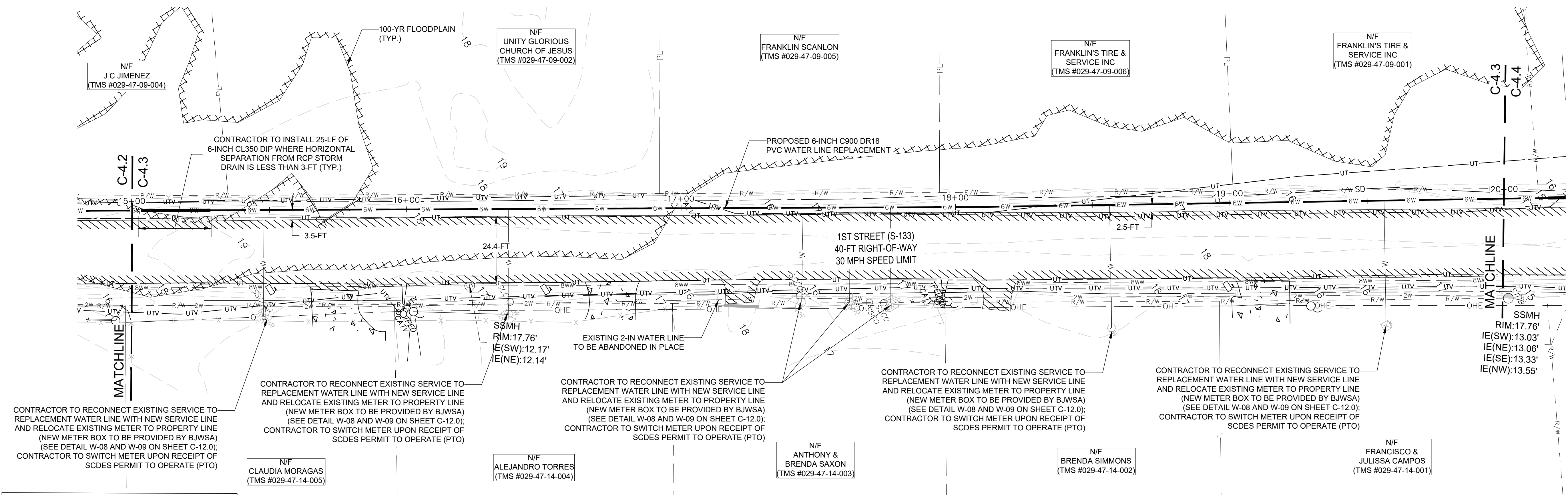
GALVANIZED WATER LINE REPLACEMENT IN THE CITY OF HARDEEVILLE AND UNINCORPORATED JASPER COUNTY

FILE NAME: 22208 - Plans.dwg
REFERENCE FILE: 22208 - Base.dwg
PROJECT NO. 22208-0027

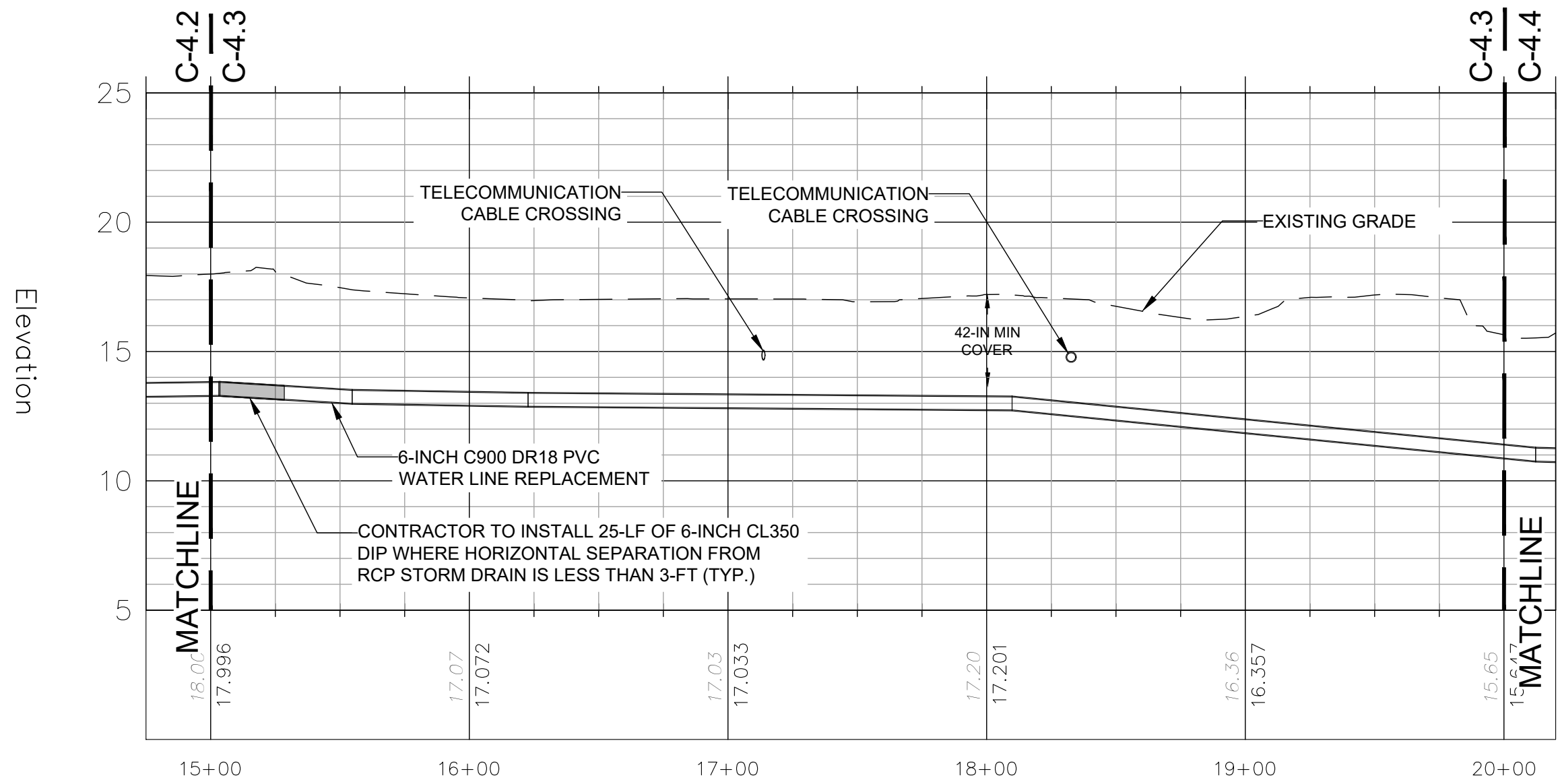
SHEET C-4.2 OF C-13.0

DWG NO. 01.1625-D28

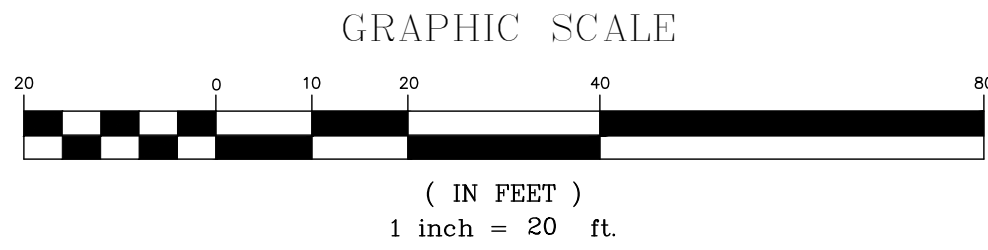
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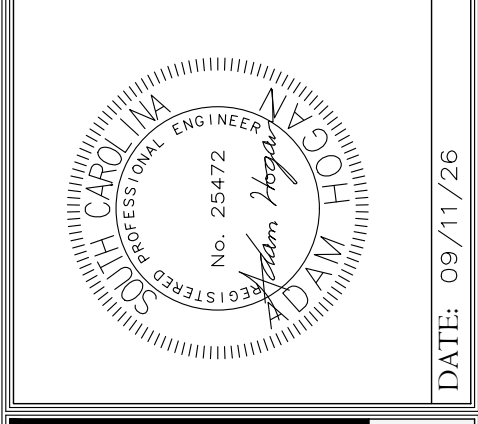
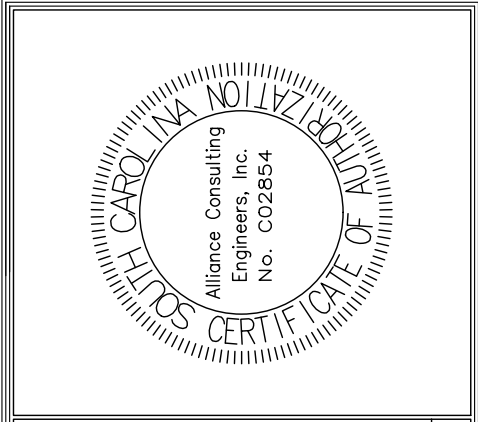
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**1st Street
Profile View**
STA: 15+00 TO 20+00
HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 5'



REVISION DATE	
DATE	REVISION DESCRIPTION
05/09/24	ISSUE FOR PERMITTING
05/26/25	ISSUE FOR CONSTRUCTION (SCDES LD)
09/11/26	ISSUE FOR BID
APPROVALS	
ENGINEER	ARH
DESIGNER	HMW
TECHNICIAN	MRT
CHECKED BY	ARH
APPROVED	ARH



ALLIANCE CONSULTING ENGINEERS

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124 Venable Blvd., Suite 205
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811

Know what's below.
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WATER LINE PLAN AND PROFILE
1ST STREET
STA. 15+00 - 20+00

GALVANIZED WATER LINE
REPLACEMENT IN THE CITY OF
HARDEEVILLE AND
UNINCORPORATED JASPER
COUNTY

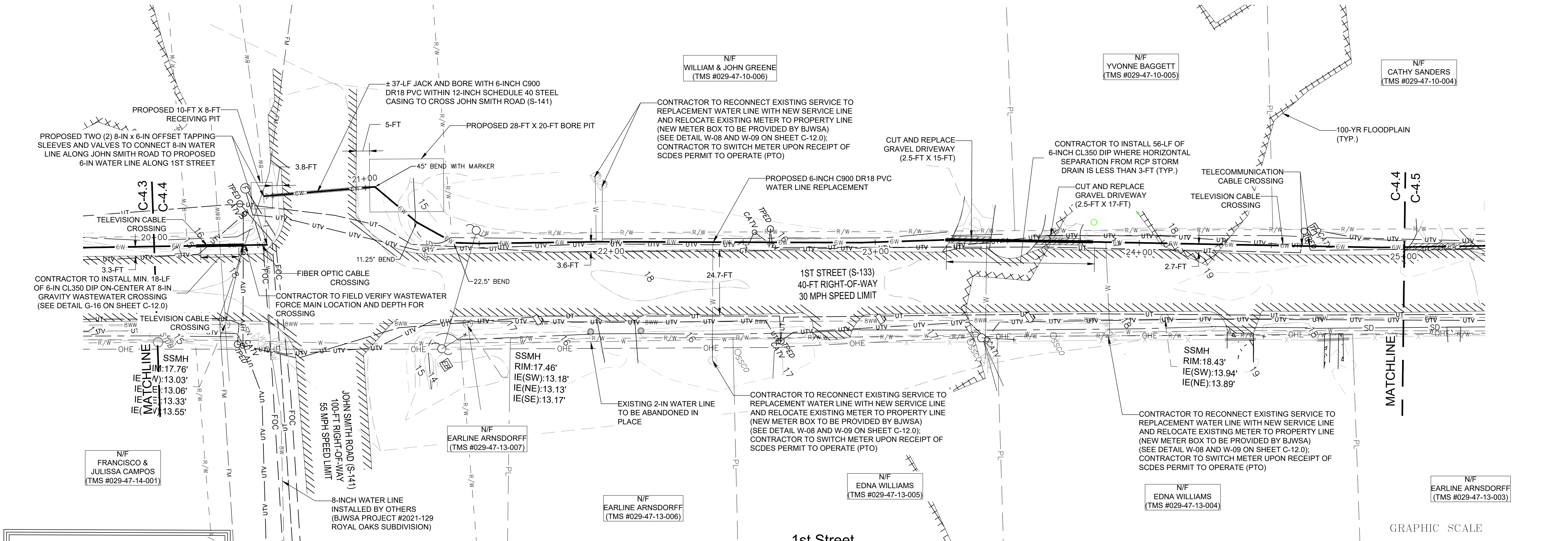
JASPER COUNTY SOUTH CAROLINA

FILE NAME: 22208 - Plans.dwg
REFERENCE FILE: 22208 - Base.dwg
PROJECT NO. 22208-0027

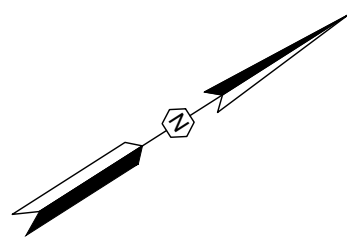
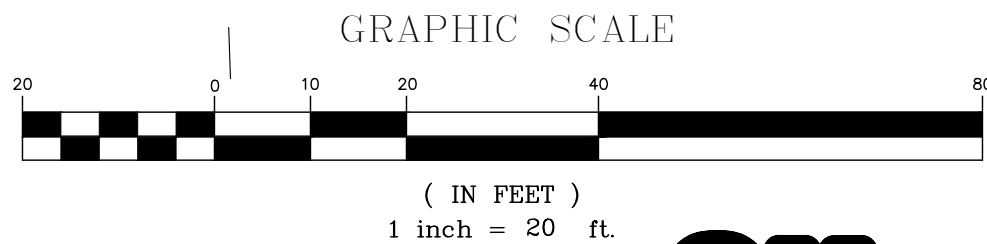
SHEET C-4.3
OF C-13.0

DWG NO. 01.1625-D28

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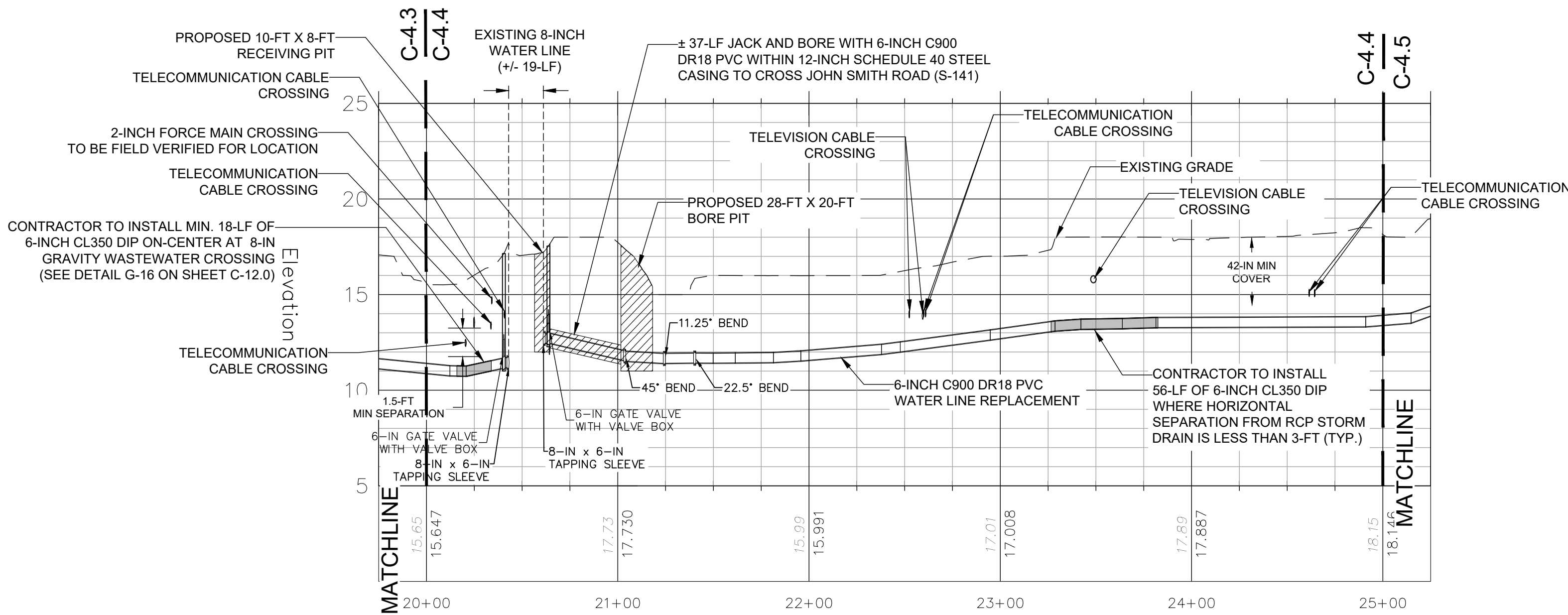
1st Street
Plan View
STA: 20+00 TO 25+00



METER KEY	
	EXISTING WATER METER (GIS)
	EXISTING WATER METER (SURVEY)

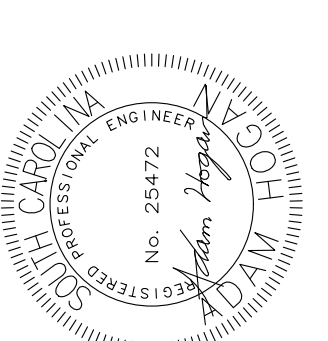
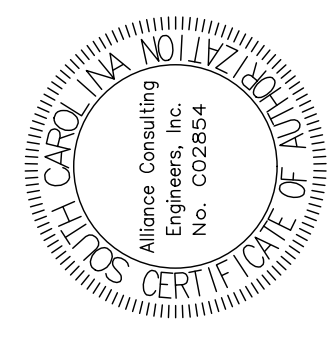
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1st Street
Profile View
STA: 20+00 TO 25+00
HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 5'

REVISION DATE	
DATE	REVISION DESCRIPTION
05/09/24	ISSUE FOR PERMITTING
05/26/25	ISSUE FOR CONSTRUCTION (SCDS LD)
09/11/26	ISSUE FOR BID
APPROVALS	
ENGINEER	ARH
DESIGNER	HMW
TECHNICIAN	MRT
CHECKED BY	ARH
APPROVED	ARH



DATE: 09/11/26

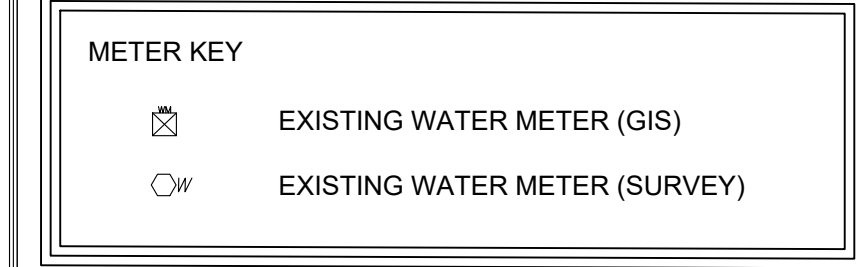
ALLIANCE CONSULTING ENGINEERS
Alliance Consulting Engineers, Inc. SC 29607
124 Venable Blvd., Suite 200
Phone: (864) 284-1740 • Fax: (864) 284-1741

PROJECT: GALVANIZED WATER LINE REPLACEMENT IN THE CITY OF HARDEEVILLE AND UNINCORPORATED JASPER COUNTY
SHEET: WATER LINE PLAN AND PROFILE
1ST STREET
STA: 20+00 - 25+00
SCALE: AS SHOWN

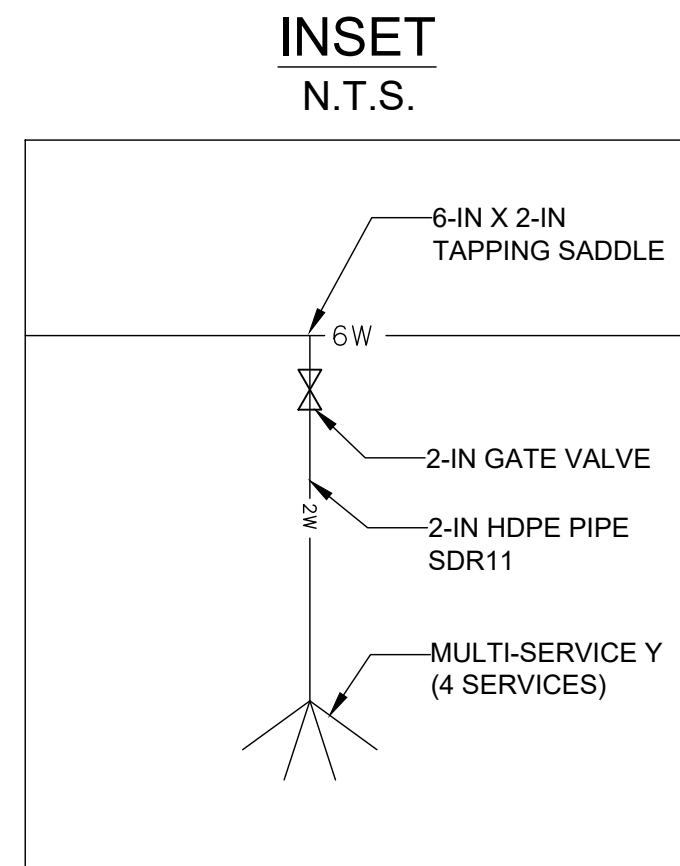
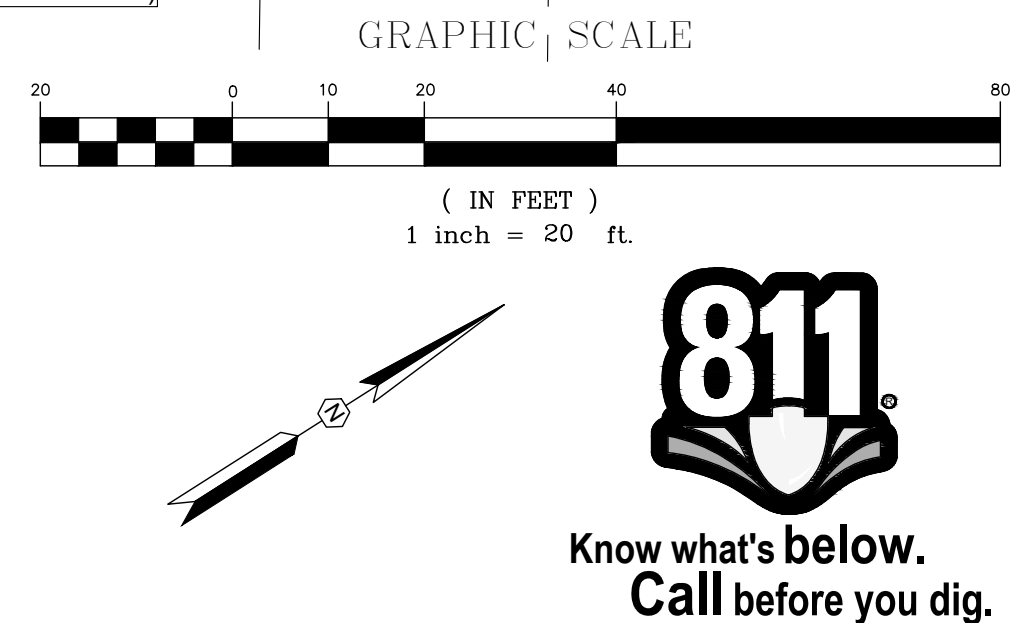
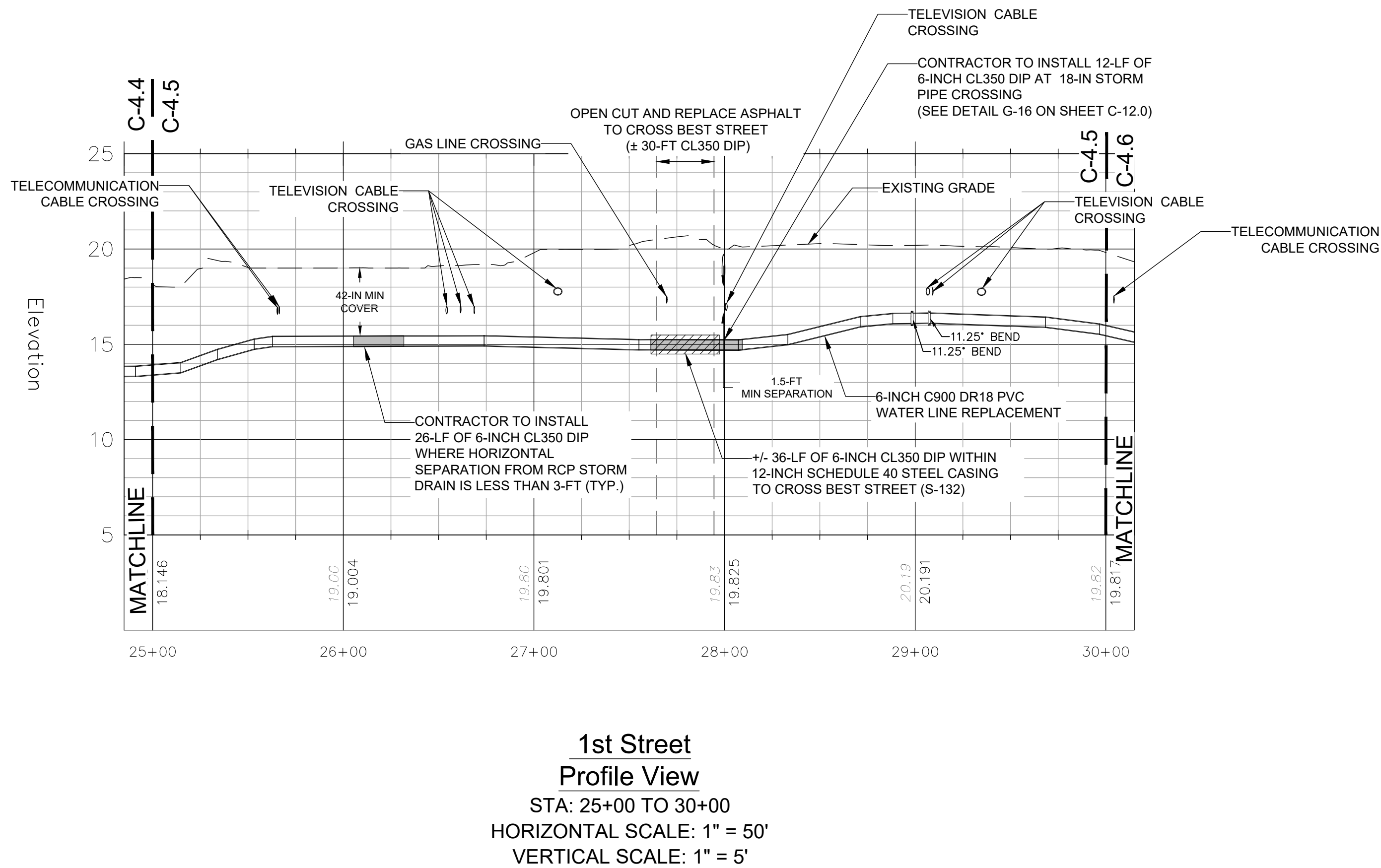
DATE: SEPTEMBER 2026
SOUTH CAROLINA
JASPER COUNTY

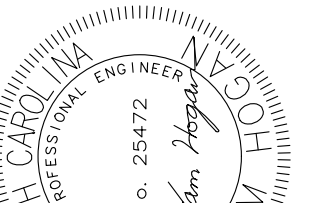
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REFERENCE FILE: 22208 - Base.dwg
PROJECT NO. 22208-0027
SHEET C-4.4 OF C-13.0

DWG NO. 01.1625-D28

[illegible]

- ### **CONSTRUCTION NOTES:**
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 9. ALL CASINGS TO EXTEND AT LEAST 5-FT BEYOND THE EDGE-OF-PAVEMENT WHERE FEASIBLE.



		DATE: 09/11/26
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Alliance Consulting Engineers, Inc.
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Phone (864) 284-1740 • Fax (864) 284-1741

WATER LINE PLAN AND PROFILE
 IST STREET
 STA. 25+00 - 30+00

DATE: SEPTEMBER 2026 SCALE: AS SHOWN

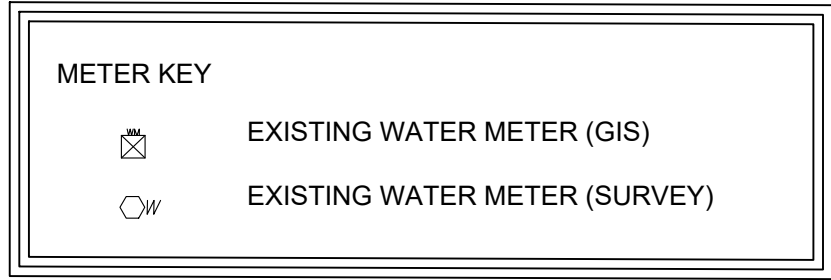
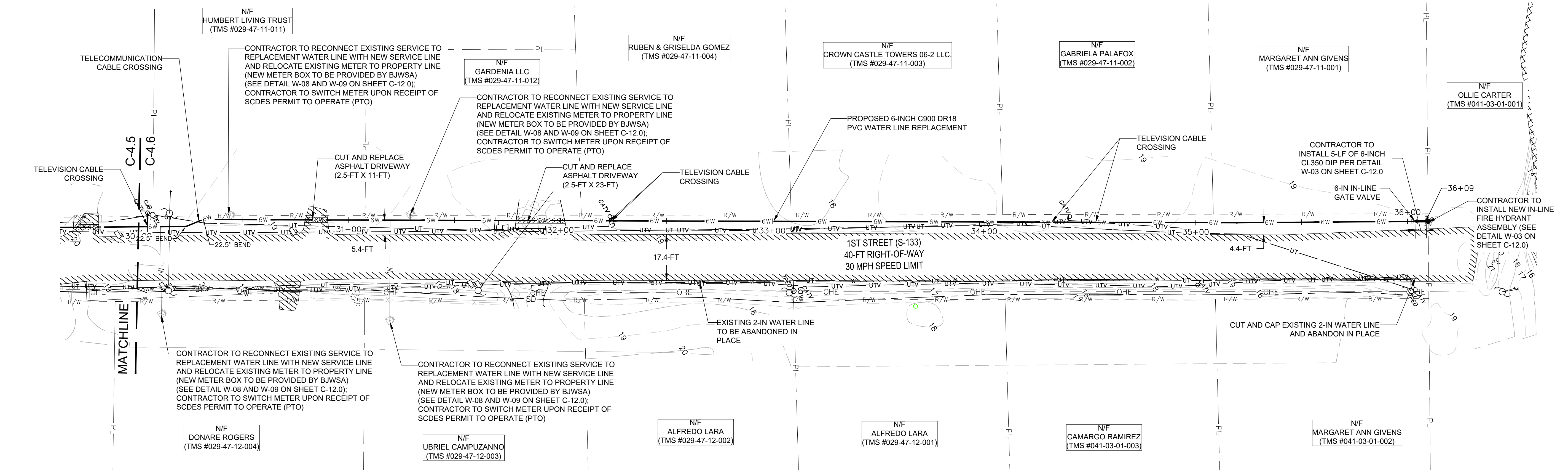
PROJECT

GALVANIZED WATER LINE
REPLACEMENT IN THE CITY OF
HARDEVILLE AND
UNINCORPORATED JASPER
COUNTY

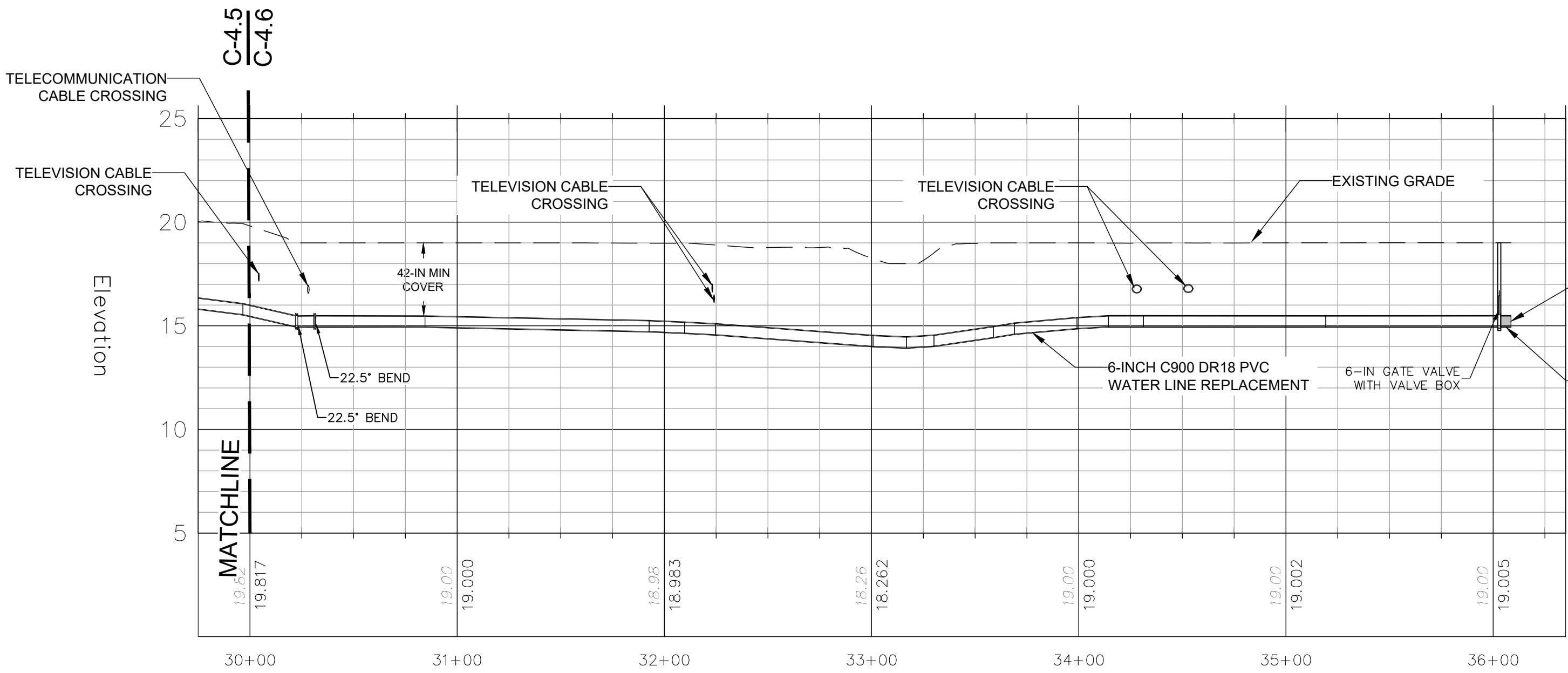
JASPER COUNTY SOUTH CAROLINA

FILE NAME: 22208 - Plans.dwg	SHEET <u>C-4.5</u> OF <u>C-13.0</u>
REFERENCE FILE: 22208 - Base.dwg	
PROJECT NO. 22208-0027	
DWG NO. 011625-D28	

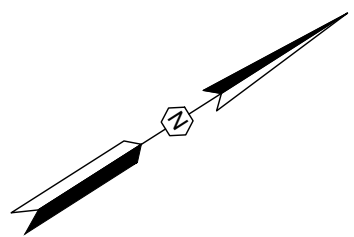
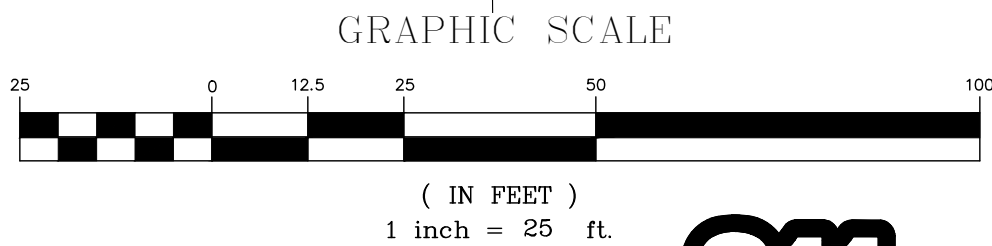
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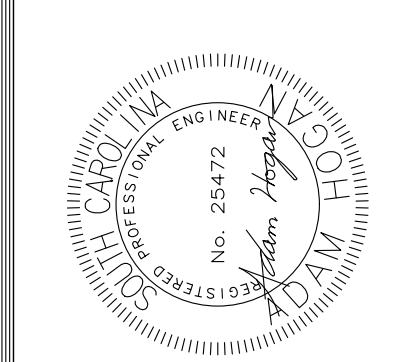
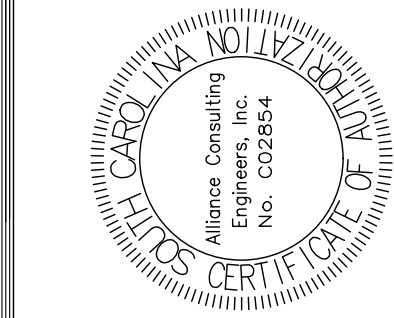


**1st Street
Profile View**
STA: 30+00 TO 36+09
HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 5'



REVISION	
DATE	DESCRIPTION
05/09/24	ISSUE FOR PERMITTING
05/26/25	ISSUE FOR CONSTRUCTION (SCDS LD)
09/11/26	ISSUE FOR BID

APPROVALS	ENGINEER	DESIGNER	TECHNICIAN	CHECKED BY	APPROVED
ARH	HMW	MRT	ARH	ARH	ARH



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124 Venable Blvd., Suite 200
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WATER LINE PLAN AND PROFILE
1ST STREET
STA. 30+00 - 36+09

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

GALVANIZED WATER LINE
REPLACEMENT IN THE CITY OF
HARDEEVILLE AND
UNINCORPORATED JASPER
COUNTY

PROJECT

FILE NAME:
22208 - Plans.dwg

REFERENCE FILE:
22208 - Base.dwg

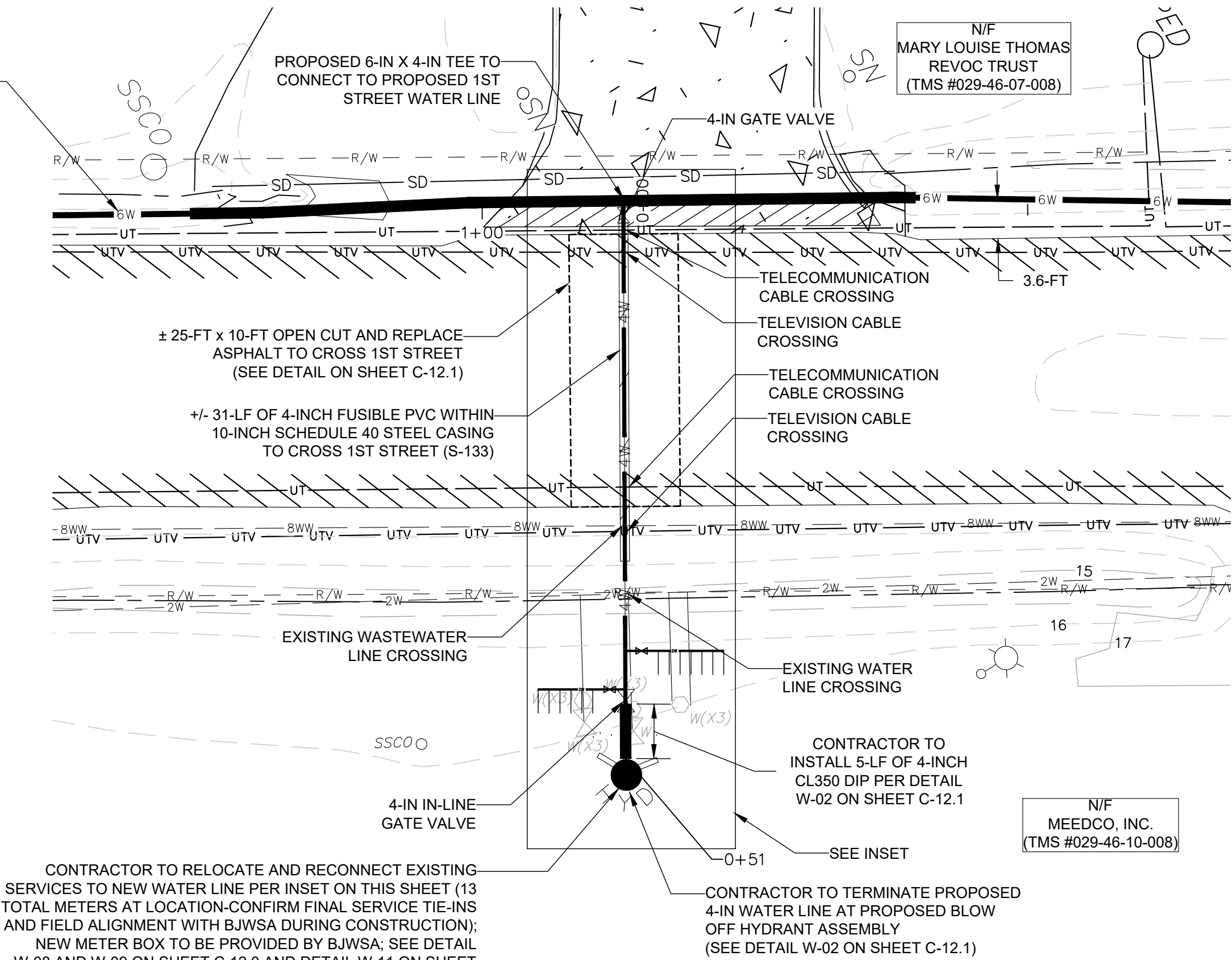
PROJECT NO.
22208-0027

SHEET
C-4.6
OF
C-13.0

DWG NO. 01.1625-D28

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PROPOSED 1ST STREET 6-INCH C900-DR18 PVC WATER LINE REPLACEMENT



1st Street Crossing
Plan View
STA: 0+00 TO 0+51

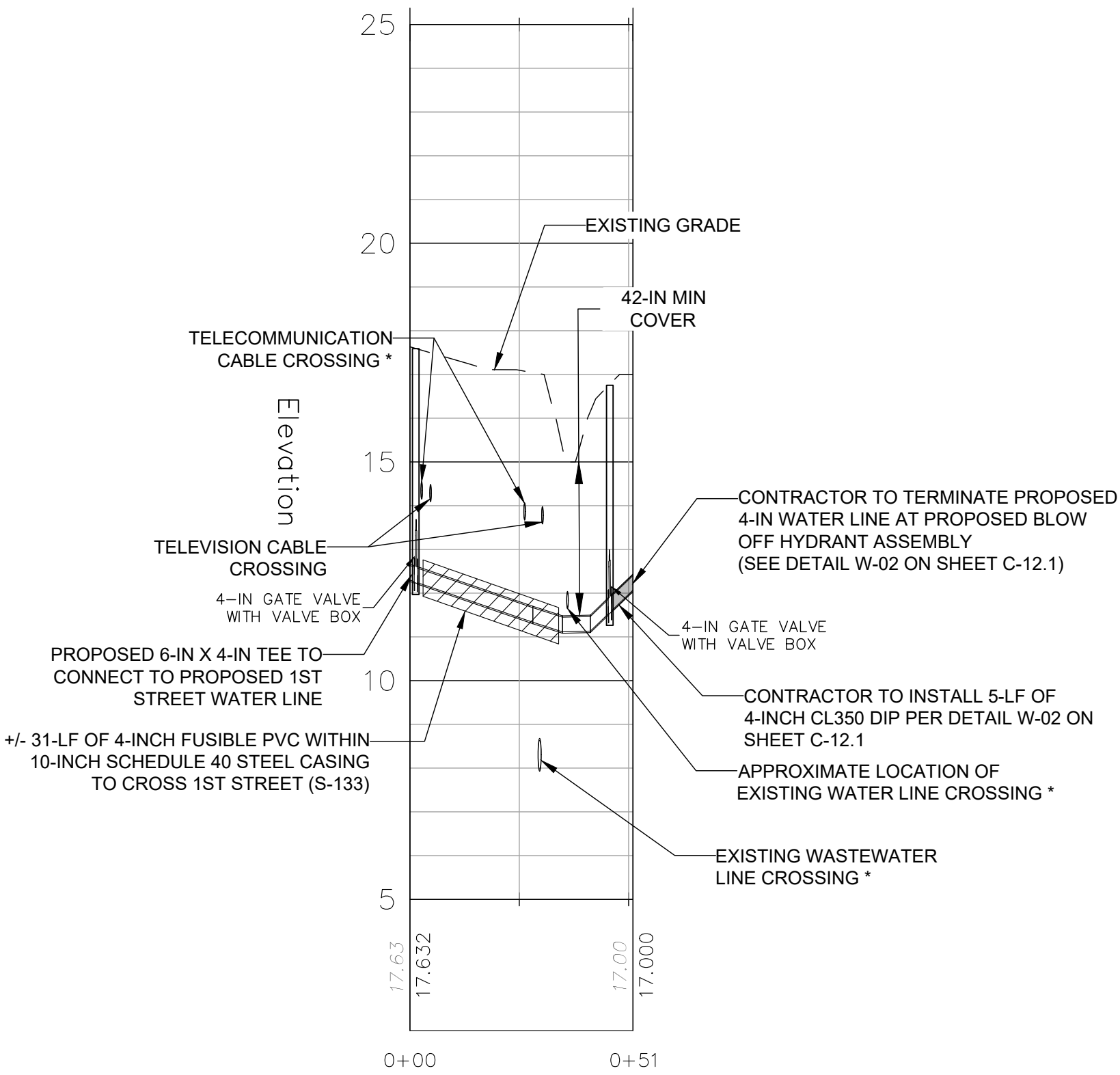
METER KEY

EXISTING WATER METER (GIS)

EXISTING WATER METER (SURVEY)

CONSTRUCTION NOTES:

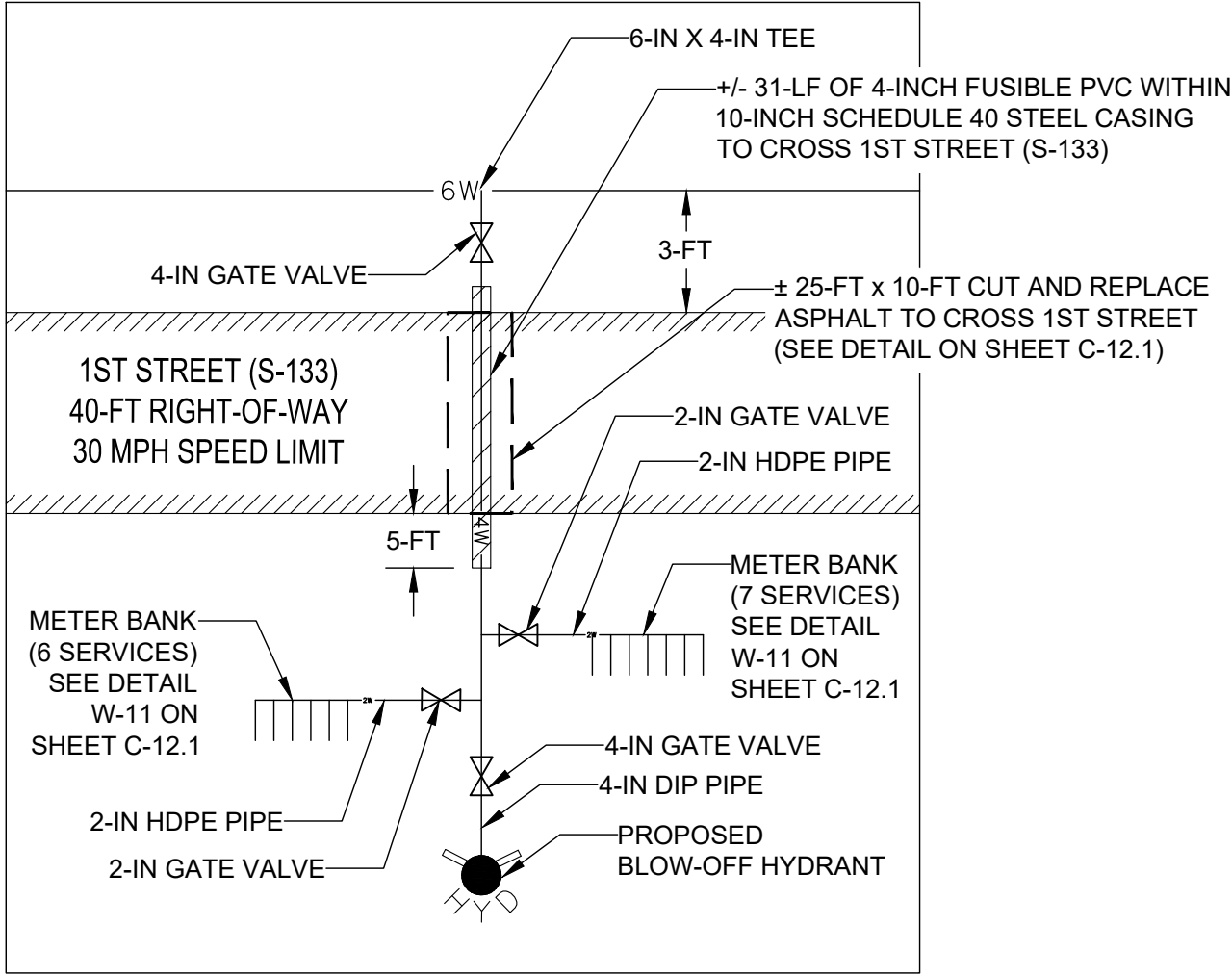
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1st Street Crossing
Profile View
STA: 0+00 TO 0+51
HORIZONTAL SCALE: 1" = 30'
VERTICAL SCALE: 1" = 3'

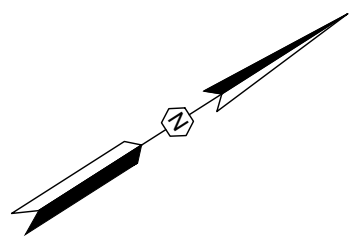
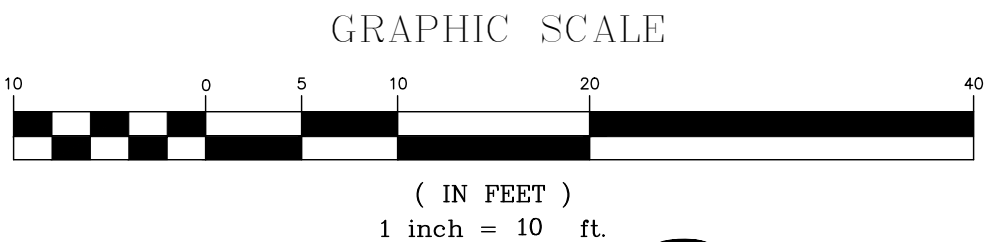
* CONTRACTOR TO MAINTAIN MINIMUM 1-FT VERTICAL SEPARATION FROM TELECOMMUNICATION CABLE AND WATER LINES AND MINIMUM 1.5-FT VERTICAL SEPARATION FROM WASTEWATER LINE.

INSET
N.T.S.

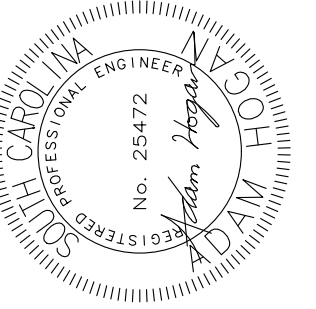
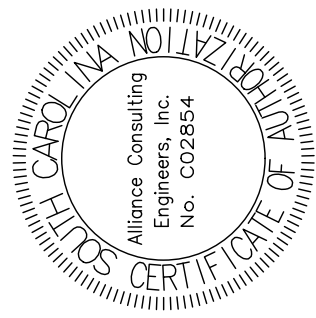


NOTE:

CONTRACTOR TO COORDINATE FINAL FIELD ARRANGEMENT WITH BJWSA.



REVISION DATE	
DATE	REVISION DESCRIPTION
05/09/24	ISSUE FOR PERMITTING
05/26/25	ISSUE FOR CONSTRUCTION (SCDES LD)
09/11/26	ISSUE FOR BID
APPROVALS	
ENGINEER	ARH
DESIGNER	HMW
TECHNICIAN	MRT
CHECKED BY	ARH
APPROVED	ARH



DATE: 09/11/26

ALLIANCE CONSULTING ENGINEERS

Alliance Consulting Engineers, Inc. SC 29607
124 Venable Blvd., Suite 100, Charleston, SC 29405
Phone: (864) 284-1740 • Fax: (864) 284-1741

PROJECT: GALVANIZED WATER LINE REPLACEMENT IN THE CITY OF HARDEEVILLE AND UNINCORPORATED JASPER COUNTY

WATER LINE PLAN AND PROFILE
1ST STREET CROSSING
STA: 0+00 - 0+51

SCALE: AS SHOWN

DATE: SEPTEMBER 2026

SOUTH CAROLINA

JASPER COUNTY

FILE NAME: 22208 - Plans.dwg
REFERENCE FILE: 22208 - Base.dwg
PROJECT NO. 22208-0027

SHEET C-4.7
OF C-13.0

DWG NO. 01.1625-D28

N/F
OHAMBA JOHNELL & ST STEPHEN
(TMS #029-47-12-007)

CONTRACTOR TO REPLACE WATER MAIN AND RELOCATE EXISTING GAS LINE (NEW METERS SEE DETAIL C-12.0) CONTRACTOR TO

CUT AND CAP EXISTING 2-IN WATER IN PLACE AND SALVAGE 2-IN GATE VALVE

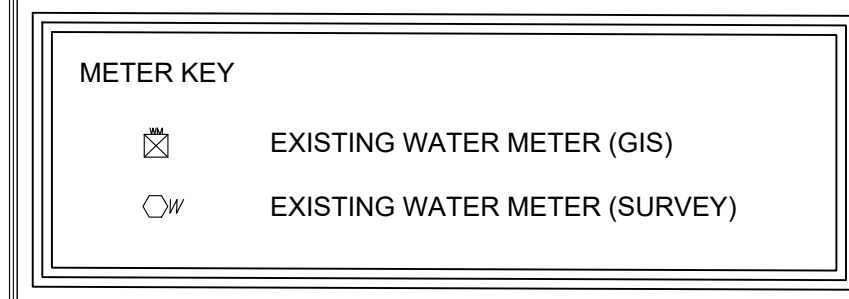
± 9-LF OF 6-INCH CL350 DIP UNDER BEST STREET (S-132)

CONTRACTOR TO INSTALL 6-IN X 6-IN CUT-IN TEE AND TWO (2) 6-IN GATE VALVES WITH VALVE BOXES TO CONNECT TO EXISTING BEST STREET 6-IN LINE (SEE DETAIL G-13 ON SHEET C-12.0)

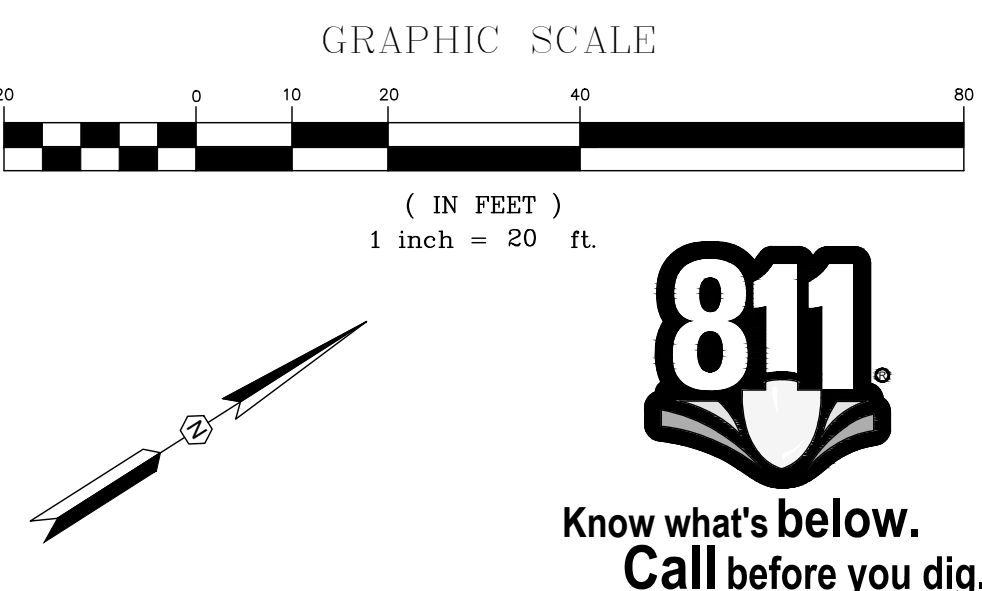
BEST STREET (S-132)
40-FT RIGHT-OF-WAY
30 MPH SPEED LIMIT

EXISTING HYDRANT (JC0028)

DOPSON ARCHIE
(TMS #041-03-02-018)



-



FILE NAME: 22208 - Plans.dwg	SHEET <u>C-5.0</u>
REFERENCE FILE: 22208 - Base.dwg	OF
PROJECT NO. 22208-0027	<u>C-13.0</u>
DWG NO. 01,1625-D28	

This plan view illustrates a water main replacement project along 2nd Street, spanning from station 0+00 to 10+60. The street has a 40-foot right-of-way and a 30 mph speed limit. Key features include:

- Water Main Replacement:** A new 6-inch C900 DR18 PVC water line is installed parallel to the existing 2-inch water line. The old line is cut and capped at various points.
- Driveways:** Asphalt driveways are replaced at stations 6+00 (2.5-ft x 18-ft) and 7+00 (2.5-ft x 11-ft).
- Fire Hydrant:** A proposed fire hydrant is located near station 5+00.
- Cable Crossing:** A telecommunication cable crossing is shown near station 8+00.
- Property Owners:** Several properties are identified with owner names and TMS numbers: Jimenez Lizeth Dejesus (#041-03-01-004), #041-03-01-009, #041-03-01-006, #041-03-01-001, Garvin Ella Mae (#041-03-02-005), Vaca Anastasio & Maria Dejesus (#041-03-02-004), Toomer Eddie Sr. (#041-03-02-003), Riley Laura (#041-03-02-001), and Riley Laura (#041-03-02-002).
- Construction Notes:** Multiple notes specify contractor responsibilities, such as reconnecting services, replacing meters, and obtaining permits from SCDES.
- Matchlines:** The drawing includes matchlines at both ends, indicating connections to sheets C-5.0/C-5.1 and C-5.1/C-6.6.

METER KEY	
	EXISTING WATER METER (GIS)
	EXISTING WATER METER (SURVEY)

Profile view of the proposed 6-inch water line replacement. The vertical axis represents Elevation (feet) from 5 to 25. The horizontal axis represents Stationing from 5+00 to 10+00.

Key features and notes:

- 6-INCH C900 DR18 PVC WATER LINE REPLACEMENT**: The proposed water line profile.
- EXISTING GRADE**: Indicated by a dashed line.
- TELECOMMUNICATION CABLE CROSSING**: Located near station 7+00.
- PROPOSED FIRE HYDRANT (SEE DETAIL W-03 ON SHEET C-12.0); BJWSA TO COORDINATE WITH PROPERTY OWNER (TMS#041-03-02-005) TO OBTAIN EASEMENT**: Located at station 6+00.
- CONTRACTOR TO INSTALL MIN. 18-LF OF 6-INCH CL350 DIP ON-CENTER AT 18-IN STORM PIPE CROSSING (SEE DETAIL G-16 ON SHEET C-12.0)**: Located near station 9+00.
- OPEN CUT AND REPLACE TO CROSS MCTEER STREET (± 26-FT 6-IN CL350 DIP)**: Located near station 10+00.
- CONTRACTOR TO TIE PROPOSED 2ND STREET 6-INCH WATER LINE TO PROPOSED MCTEER STREET 6-INCH WATER LINE WITH A 45° BEND**: See Plan Sheet C-6.6.

Matchlines are shown at station 5+00 and station 10+00.

2nd Street
Profile View
STA: 5+00 TO 10+60
HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 5'

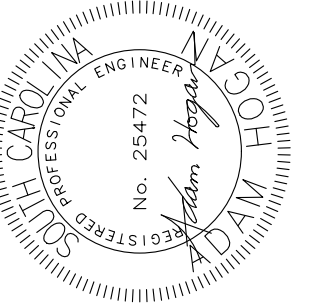
20 0 10 20 40 80

(IN FEET)

1 inch = 20 ft.



REVISION DATE	
1	DATE REVISION DESCRIPTION
2	05/09/24 ISSUE FOR PERMITTING
3	05/26/25 ISSUE FOR CONSTRUCTION (SCDIS LD)
4	09/11/26 ISSUE FOR BID
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Phone: (864) 284-1740 • fax: (864) 284-1741

WATER LINE PLAN AND PROFILE
2ND STREET
STA. 5+00 - 10+60

DATE: SEPTEMBER, 2026 SCALE: AS SHOWN

SHEET

PROJECT

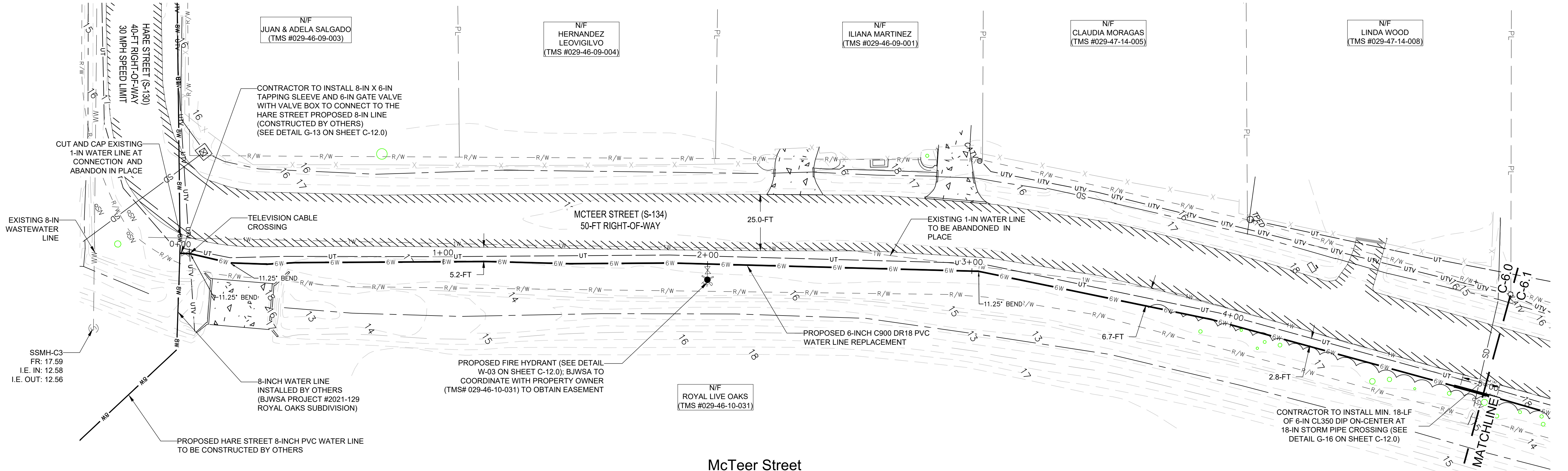
GALVANIZED WATER LINE
REPLACEMENT IN THE CITY OF
HARDEEVILLE AND
UNINCORPORATED JASPER
COUNTY

JASPER COUNTY SOUTH CAROLINA

SHEET
C-5.1
OF
C-13.0

DWG NO. 01,1625-D28

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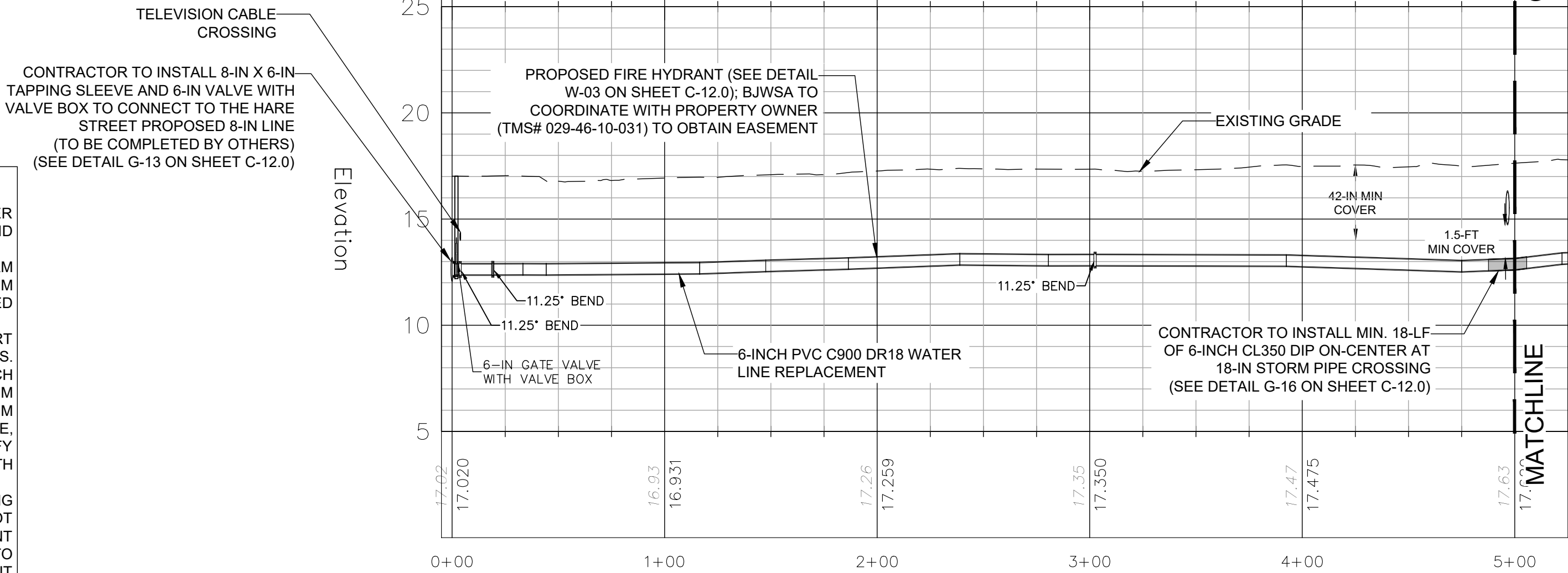


McTeer Street
Plan View
STA: 0+00 TO 5+00

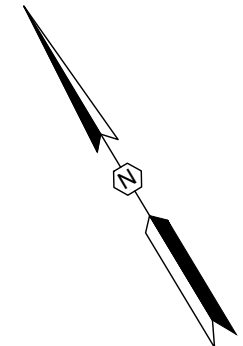
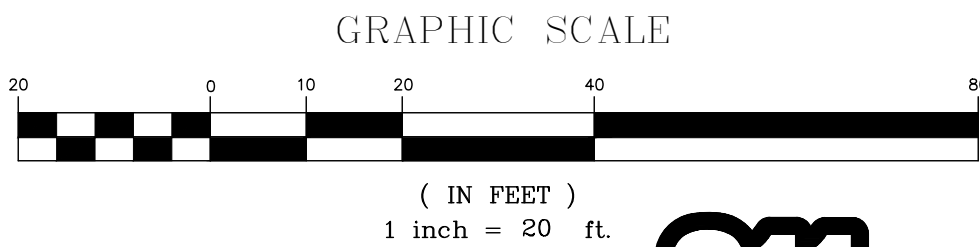
METER KEY	
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	EXISTING WATER METER (SURVEY)

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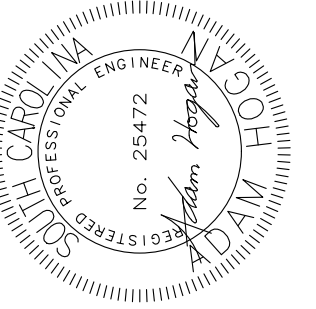
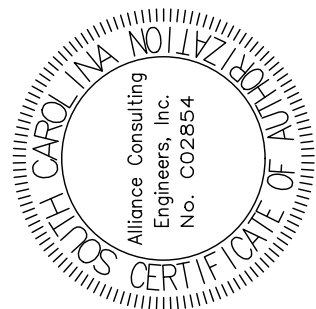


McTeer Street
Profile View
STA: 0+00 TO 5+00
HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 5'



Know what's below.
Call before you dig.

REVISION DATE	
DATE	REVISION DESCRIPTION
05/09/24	ISSUE FOR PERMITTING
05/26/25	ISSUE FOR CONSTRUCTION (SCS LO)
09/11/26	ISSUE FOR BID
APPROVALS	
ENGINEER	DESIGNER
ARH	HMW
TECHNICIAN	CHECKED BY
MRT	ARH
APPROVED	ARH



DATE: 09/11/26

ALLIANCE
CONSULTING ENGINEERS

Alliance Consulting Engineers, Inc. SC 29607
124 Venable Blvd., Suite 200
Phone: (864) 284-1740 • Fax: (864) 284-1741

WATER LINE PLAN AND PROFILE
MC TEER STREET
STA. 0+00 - 5+00

SCALE: AS SHOWN

PROJECT

GALVANIZED WATER LINE
REPLACEMENT IN THE CITY OF
HARDEEVILLE AND
UNINCORPORATED JASPER
COUNTY

JASPER COUNTY SOUTH CAROLINA

FILE NAME:
22208 - Plans.dwg

REFERENCE FILE:
22208 - Base.dwg

PROJECT NO.
22208-0027

SHEET
C-6.0
OF
C-13.0

DWG NO. 01.1625-D28

The diagram is a technical utility map oriented vertically. At the top right, a rectangular box contains the text "ANTHONY &" followed by "(TMS #02)". Below this, a horizontal dashed line labeled "UT" runs across the width of the page. Further down, two vertical circular features are labeled "C-6.0" and "C-6.1". To their left, a label "N+ UTW" is present. To their right, labels "R/W" and "UTW" appear twice. Below these, a horizontal line with diagonal hatching above it is labeled "SD". Further down, another horizontal line with diagonal hatching below it is labeled "JT". In the center, a vertical line segment is labeled "-5+00". To its right, a small circular feature is labeled "SW". Below this, a horizontal line with diagonal hatching above it is labeled "UT". Further down, two horizontal lines with diagonal hatching below them are labeled "R/W". To the right of these, a label "7x" is present. Below the "R/W" lines, a horizontal line with diagonal hatching above it is labeled "EXISTING TREE (TYP.)". Further down, another horizontal line with diagonal hatching above it is labeled "APPROXIMATE TREE". At the bottom, a large rectangular box contains the text "MATCHLINE" written vertically. To the right of this box, a smaller rectangular box contains the text "N/F", "ROYAL LIVE OAK", and "(TMS #029-46-10-0)".

METER KEY	
	EXISTING WATER METER (GIS)
	EXISTING WATER METER (SURVEY)

± 39 LF JACK AND BORE WITH 6-IN C900 DR18 PVC WITHIN 12-INCH SCHEDULE 40 STEEL CASING TO CROSS JOHN SMITH ROAD (S-141)

FIBER OPTIC CABLE CROSSING

PROPOSED 15-FT X 10-FT RECEIVING PIT

TELECOMMUNICATION CABLE CROSSING

APPROXIMATE LOCATION OF FUTURE 4-IN FORCE MAIN CROSSING *

EXISTING 18-IN STORM DRAIN CROSSING *

EXISTING 2-IN FORCE MAIN CROSSING *

EXISTING 18-IN STORM DRAIN CROSSING

6-INCH C900 DR18 PVC WATER LINE REPLACEMENT

EXISTING GRADE

42-IN MIN COVER

PROPOSED FIRE HYDRANT (SEE DETAIL W-03 ON SHEET C-12.0). BUWSA TO COORDINATE WITH PROPERTY OWNER (TMS# 029-46-10-031) TO OBTAIN EASEMENT

TELEVISION CABLE CROSSING *

TELECOMMUNICATION CABLE CROSSING *

22.5° BEND

6-IN GATE VALVE WITH VALVE BOX

8-IN x 6-IN TAPPING SLEEVE

EXISTING 8-INCH WATER LINE (*1/2-36-LF)

45.0° BEND

22.5° BEND

6-IN GATE VALVE WITH VALVE BOX

8-IN x 6-IN TAPPING SLEEVE

± 18-LF MIN CL350 D EXISTING 2-IN

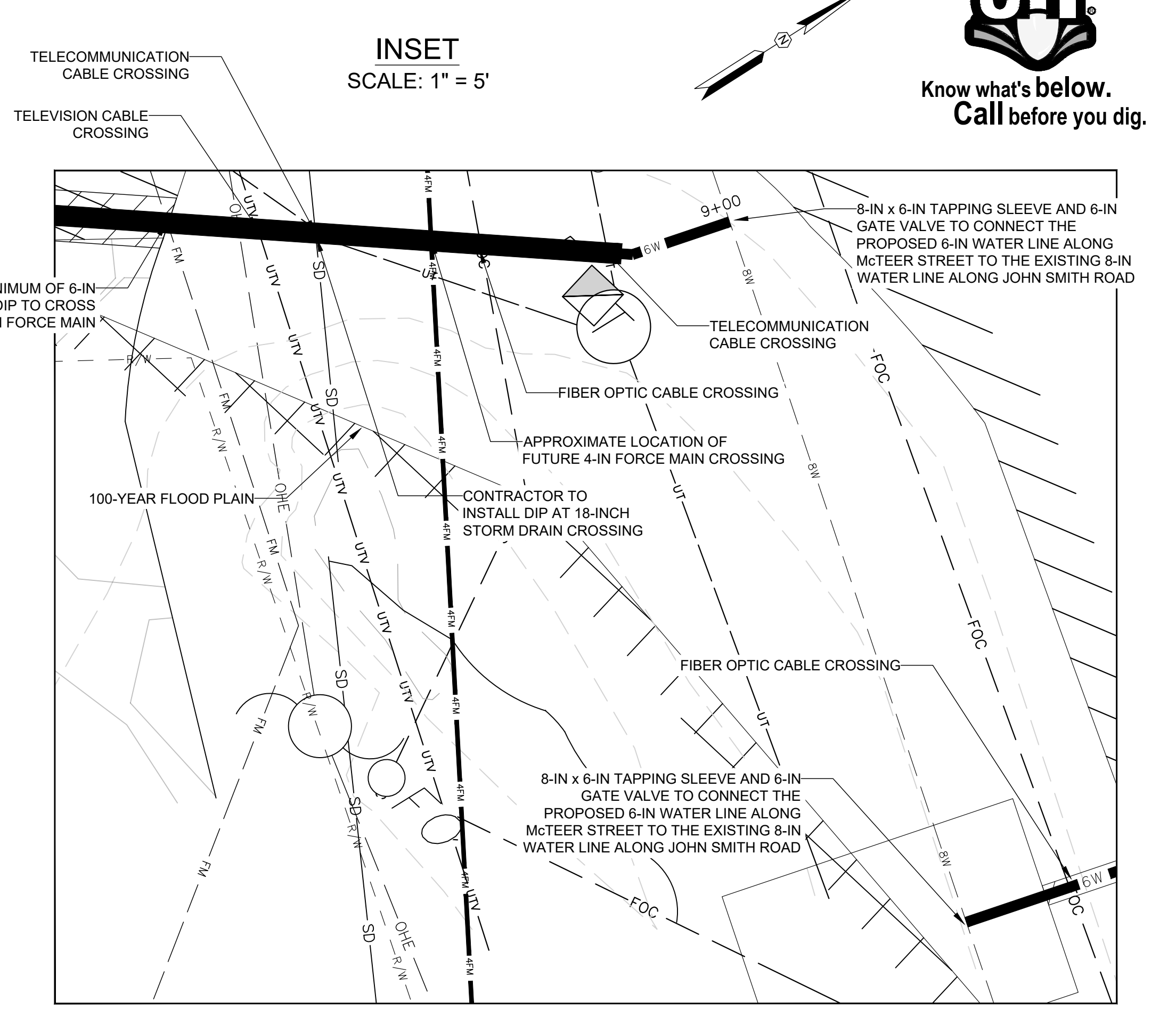
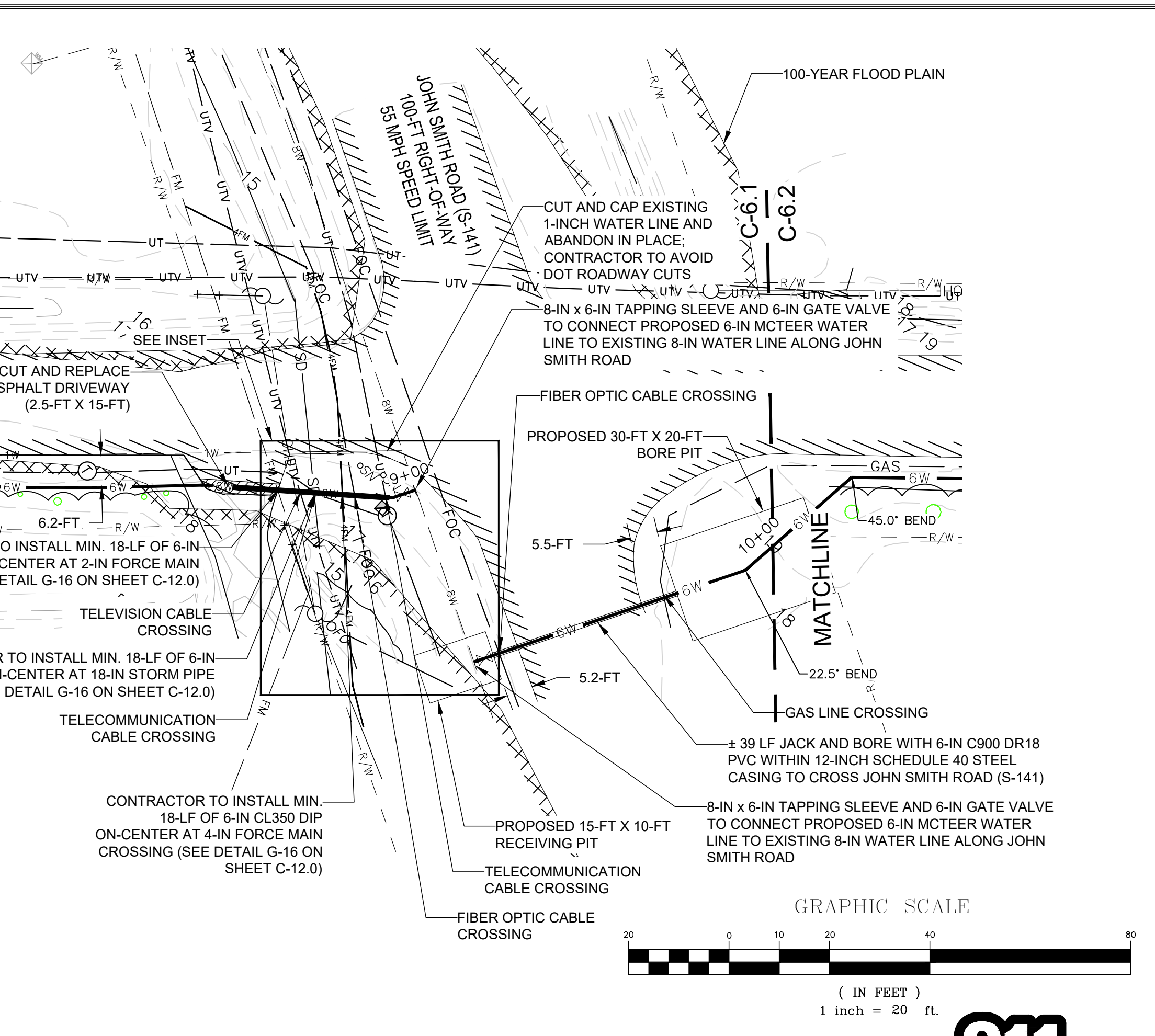
GAS LINE CROSSING

17.629 18.002 17.26 17.278 17.60 17.598 18.986 18.991 18.99

5+00 6+00 7+00 8+00 9+00 10+00

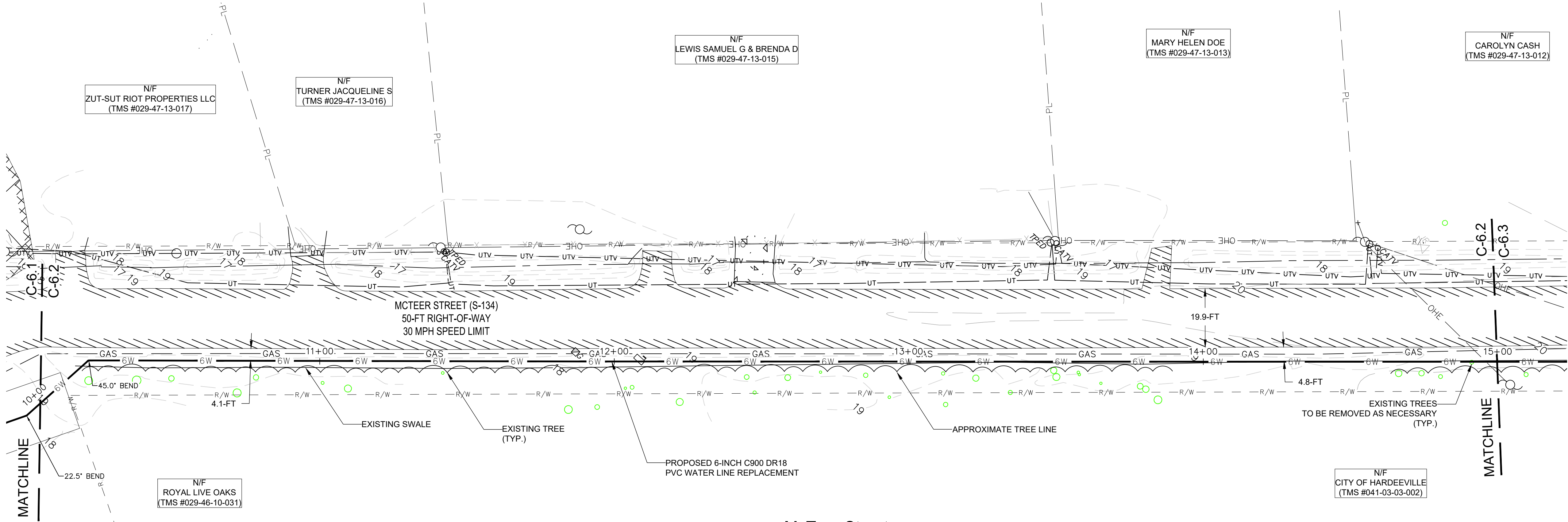
McTeer Street
Profile View
STA: 5+00 TO 10+00
HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 5'

* CONTRACTOR TO INSTALL 32-LF OF 6-IN CL350 DIP AT WASTEWATER AND STORM PIPE CROSSINGS (SEE DETAIL G-16 ON SHEET C-12.0) AND MAINTAIN MINIMUM 1-FT VERTICAL SEPARATION FROM PHONE AND FIBER LINES.



		REVISION DATE	
		DATE: REVISION DESCRIPTION	
		05/09/24 ISSUE FOR PERMITTING	
		05/26/25 ISSUE FOR CONSTRUCTION (SCDS 14)	
		09/11/26 ISSUE FOR BID	
			
			
			
			
			
			
			
			
			
			
			
			
			
			
			
			
			
			
			
			
			
			
			
			
			
			
			
			
			

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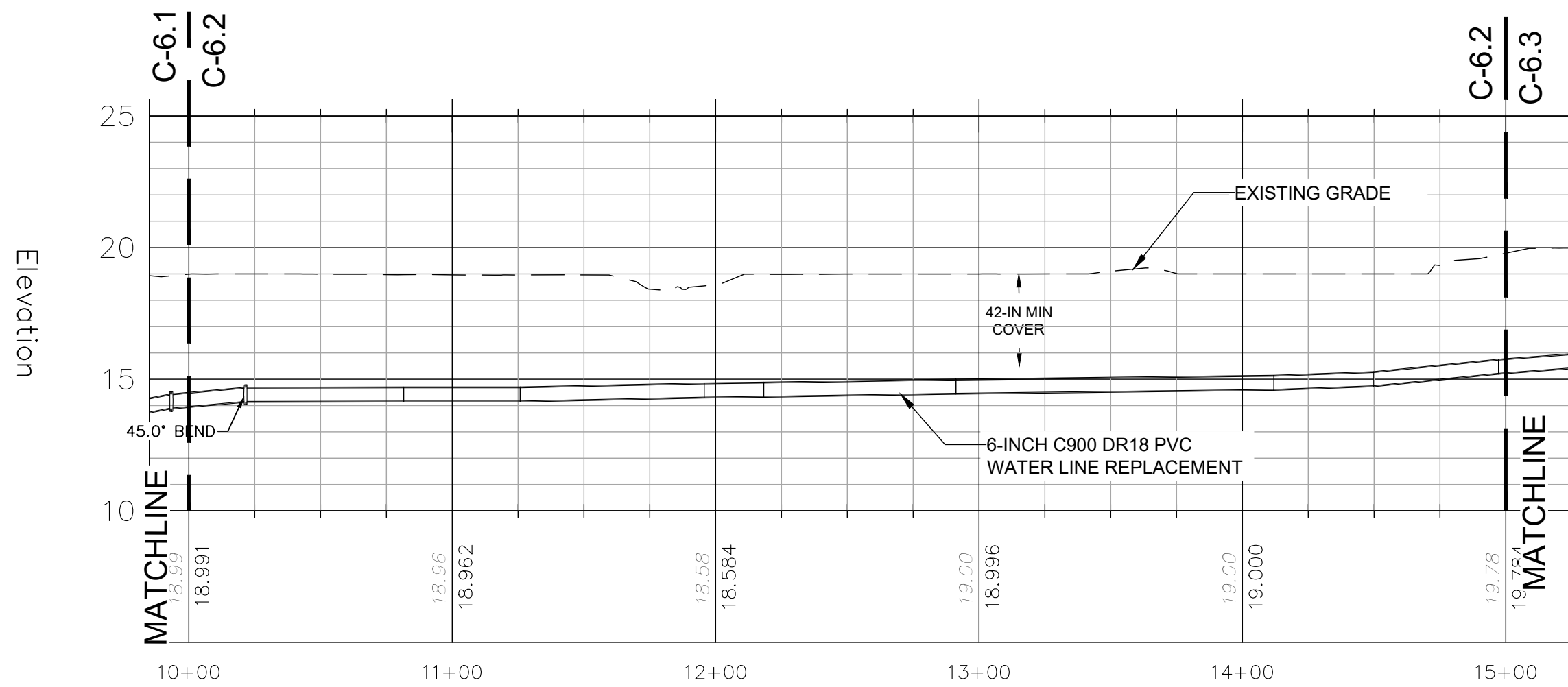


McTeer Street
Plan View
STA: 10+00 TO 15+00

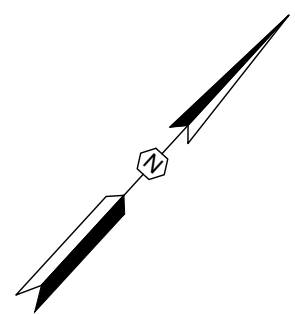
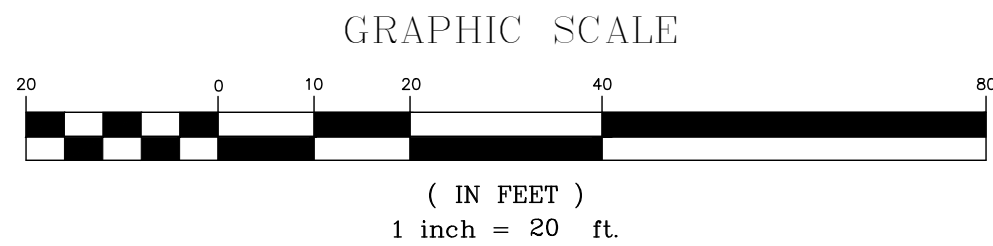
METER KEY	
	EXISTING WATER METER (GIS)
	EXISTING WATER METER (SURVEY)

CONSTRUCTION NOTES:

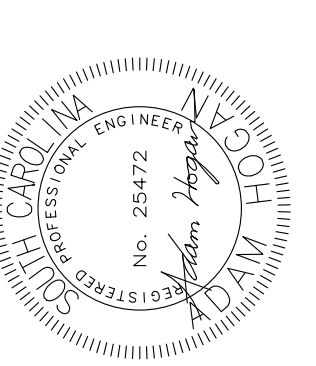
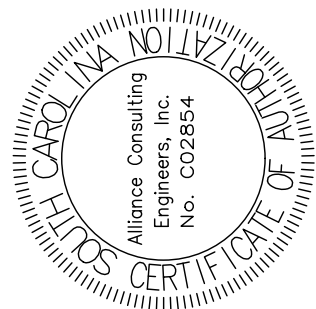
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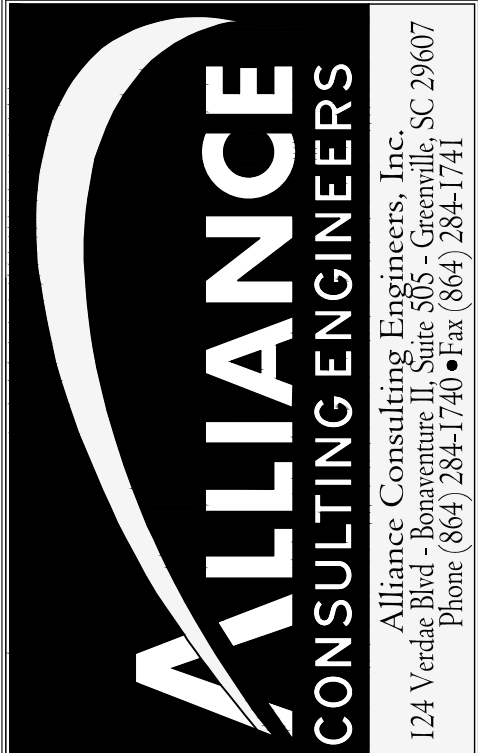
McTeer Street
Profile View
STA: 10+00 TO 15+00
HORIZONTAL SCALE: 1" = 50'
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REVISION DATE	
DATE	REVISION DESCRIPTION
05/09/24	ISSUE FOR PERMITTING
05/26/25	ISSUE FOR CONSTRUCTION (SCS LO)
09/11/26	ISSUE FOR BID
APPROVALS	
ENGINEER	ARH
DESIGNER	HMW
TECHNICIAN	MRT
CHECKED BY	ARH
APPROVED	ARH



DATE: 09/11/26



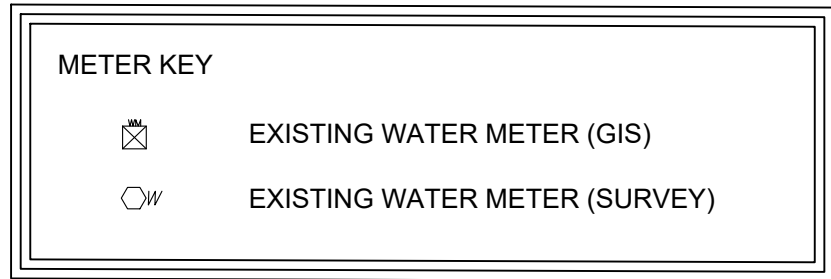
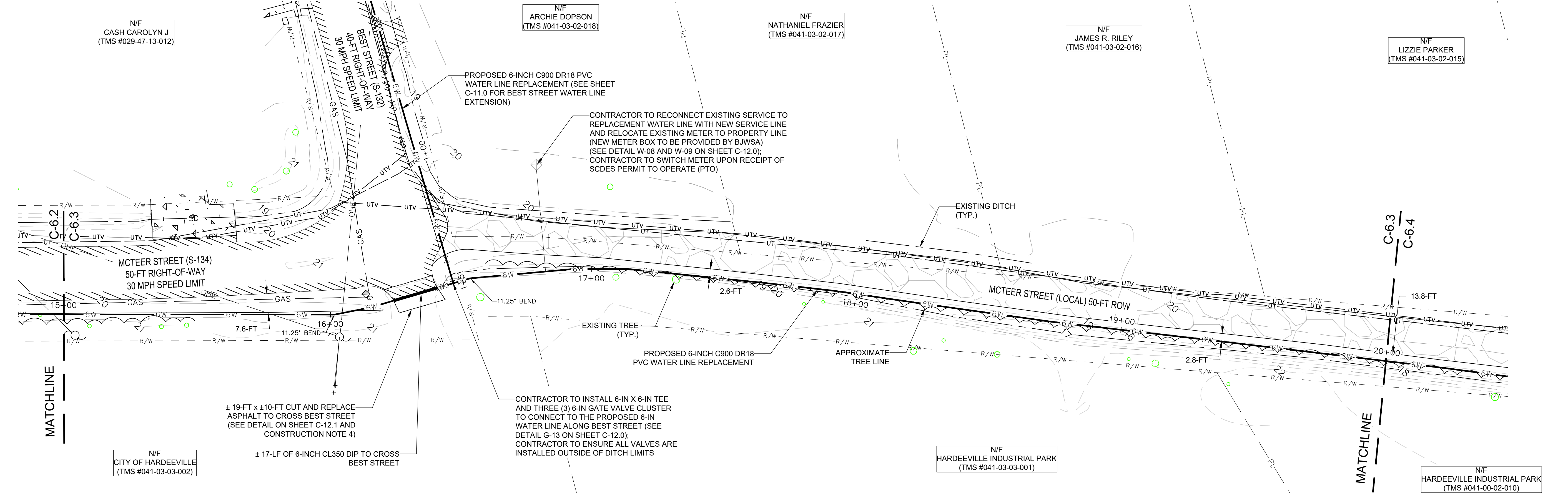
SHEET	WATER LINE PLAN AND PROFILE MCTEER STREET STA. 10+00 - 15+00		SCALE: AS SHOWN
	PROJECT		

PROJECT	GALVANIZED WATER LINE REPLACEMENT IN THE CITY OF HARDEEVILLE AND UNINCORPORATED JASPER COUNTY		SOUTH CAROLINA
	JASPER COUNTY		

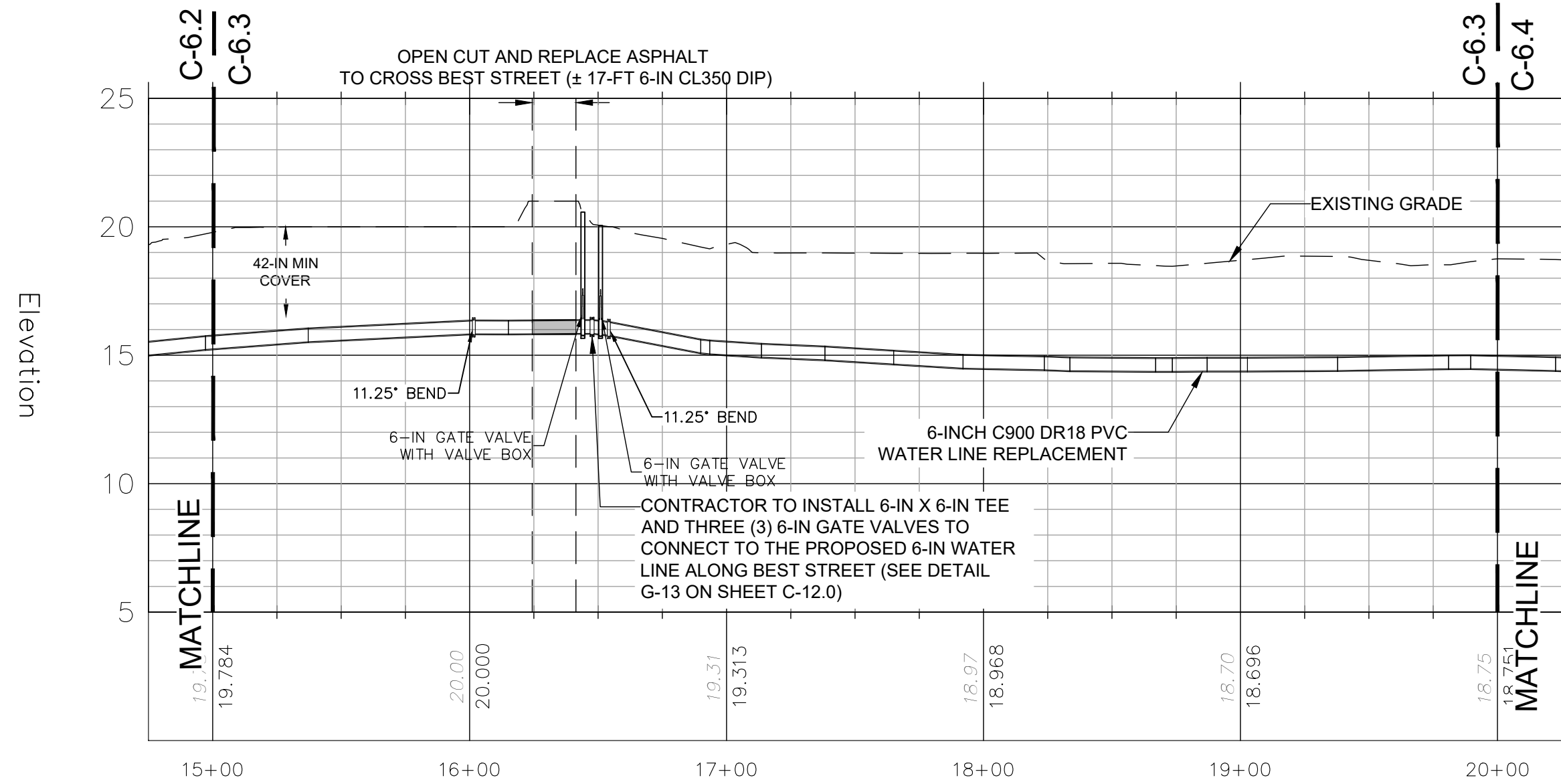
FILE NAME:	22208 - Plans.dwg	SHEET
REFERENCE FILE:	22208 - Base.dwg	
PROJECT NO.	22208-0027	OF
		C-13.0

DWG NO. 01.1625-D28

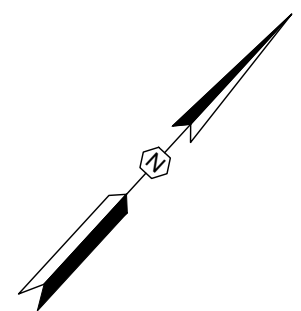
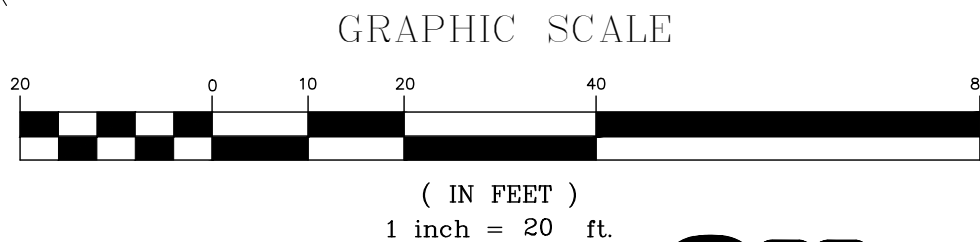
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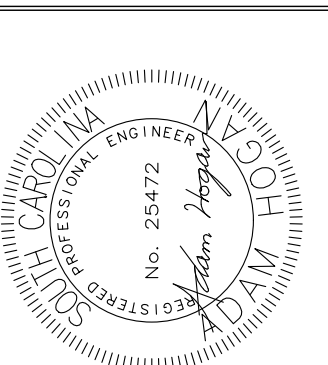
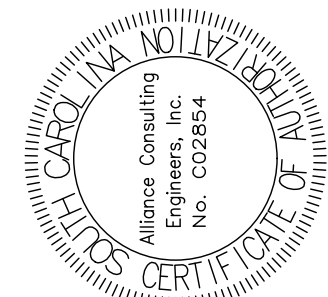


**McTeer Street
Profile View**
STA: 15+00 TO 20+00
HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 5'



Know what's below.
Call before you dig.

REVISION DATE	
DATE	REVISION DESCRIPTION
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05/26/25	ISSUE FOR CONSTRUCTION (SCDS LD)
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APPROVALS	
ENGINEER	ARH
DESIGNER	HMW
TECHNICIAN	MRT
CHECKED BY	ARH
APPROVED	ARH



ALLIANCE CONSULTING ENGINEERS

Alliance Consulting Engineers, Inc. SC 29607
124 Venable Blvd., Suite 200
Phone (864) 284-1740 • Fax (864) 284-1741

PROJECT

WATER LINE PLAN AND PROFILE
MCTEER STREET
STA. 15+00 - 20+00

SHEET

PROJECT

GALVANIZED WATER LINE
REPLACEMENT IN THE CITY OF
HARDEEVILLE AND
UNINCORPORATED JASPER
COUNTY

SOUTH CAROLINA
JASPER COUNTY

FILE NAME:
22208 - Plans.dwg

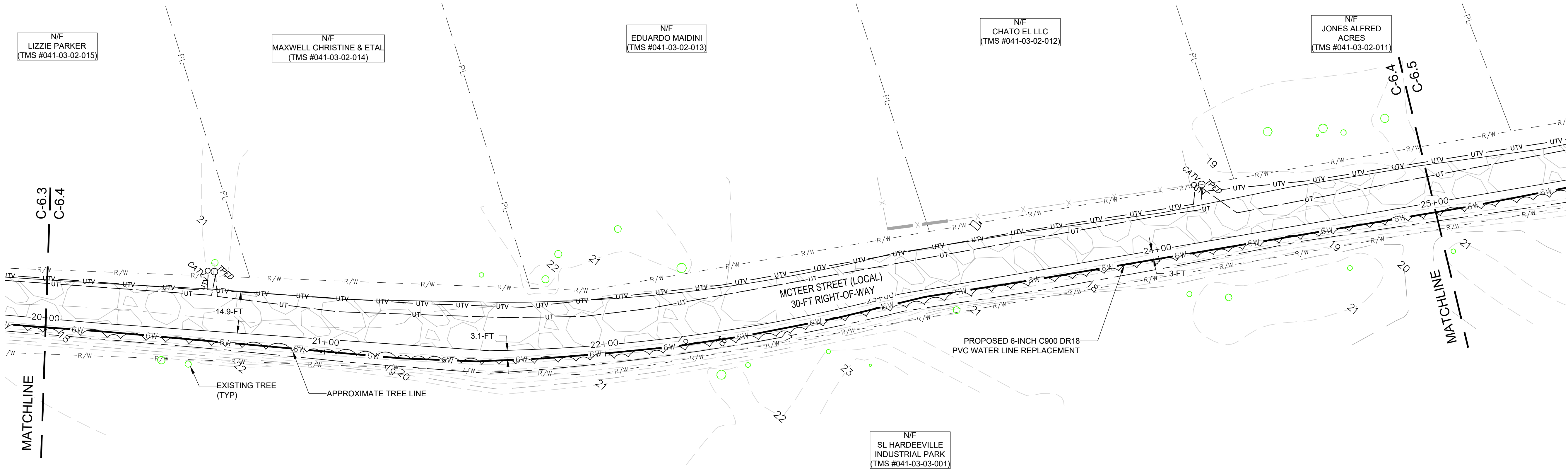
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22208 - Base.dwg

PROJECT NO.
22208-0027

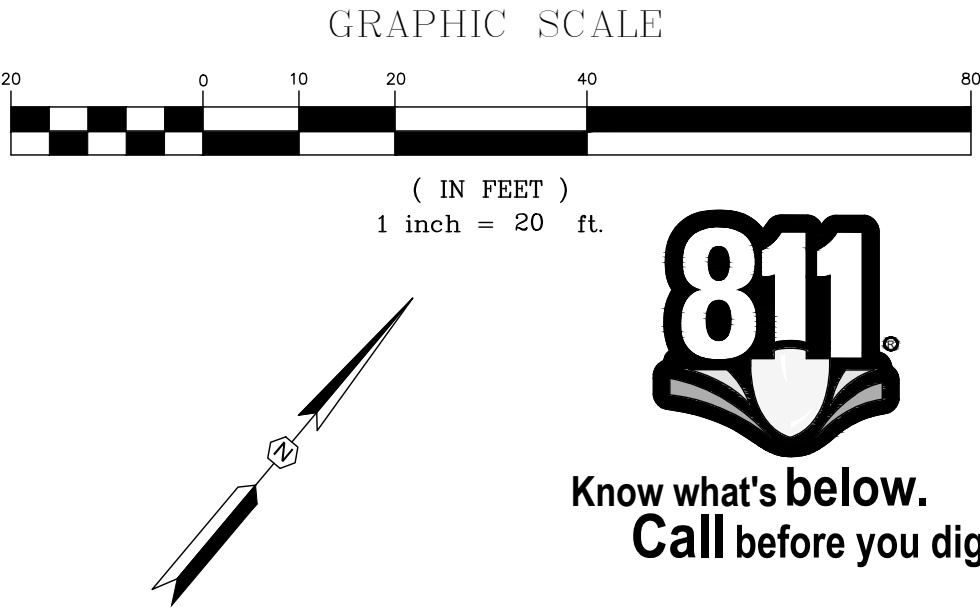
SHEET
C-6.3
OF
C-13.0

DWG NO. 01.1625-D28

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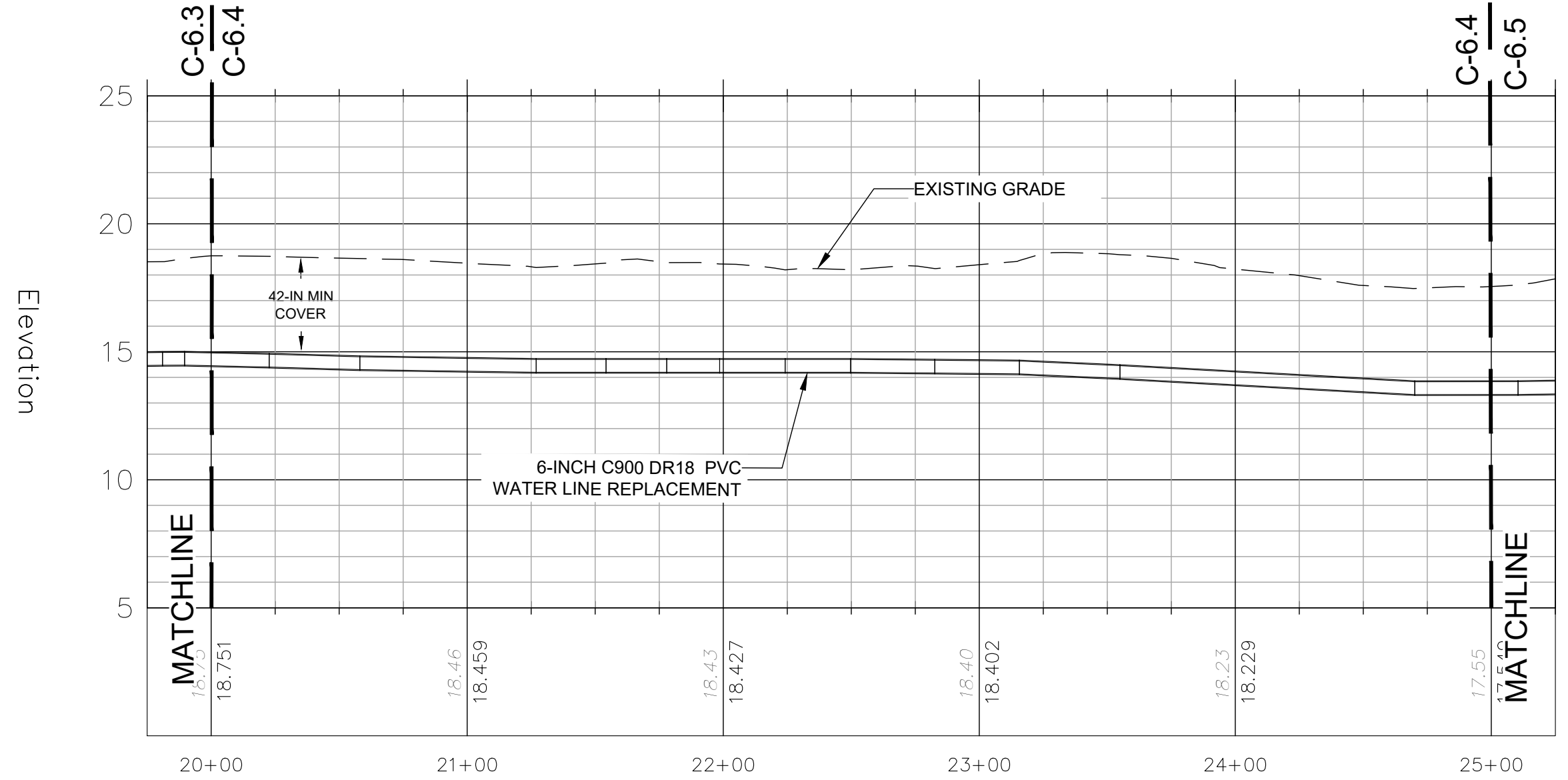


McTeer Street
Plan View
STA: 20+00 TO 25+00



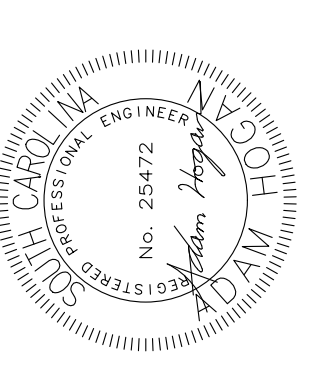
METER KEY	
	EXISTING WATER METER (GIS)
	EXISTING WATER METER (SURVEY)

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McTeer Street
Profile View
STA: 20+00 TO 25+00
HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 5'

REVISION DATE	
DATE	REVISION DESCRIPTION
05/09/24	ISSUE FOR PERMITTING
05/26/25	ISSUE FOR CONSTRUCTION (SCDS LD)
09/11/26	ISSUE FOR BID
APPROVALS	
ENGINEER	ARH
DESIGNER	HMW
TECHNICIAN	MRT
CHECKED BY	ARH
APPROVED	ARH



DATE: 09/11/26

ALLIANCE CONSULTING ENGINEERS

Alliance Consulting Engineers, Inc. SC 29607
124 Venable Blvd., Suite 200, Charleston, SC 29405
Phone: (864) 284-1740 • Fax: (864) 284-1741

WATER LINE PLAN AND PROFILE

McTeer Street
STA: 20+00 - 25+00

PROJECT: GALVANIZED WATER LINE REPLACEMENT IN THE CITY OF HARDEEVILLE AND UNINCORPORATED JASPER COUNTY

JASPER COUNTY SOUTH CAROLINA

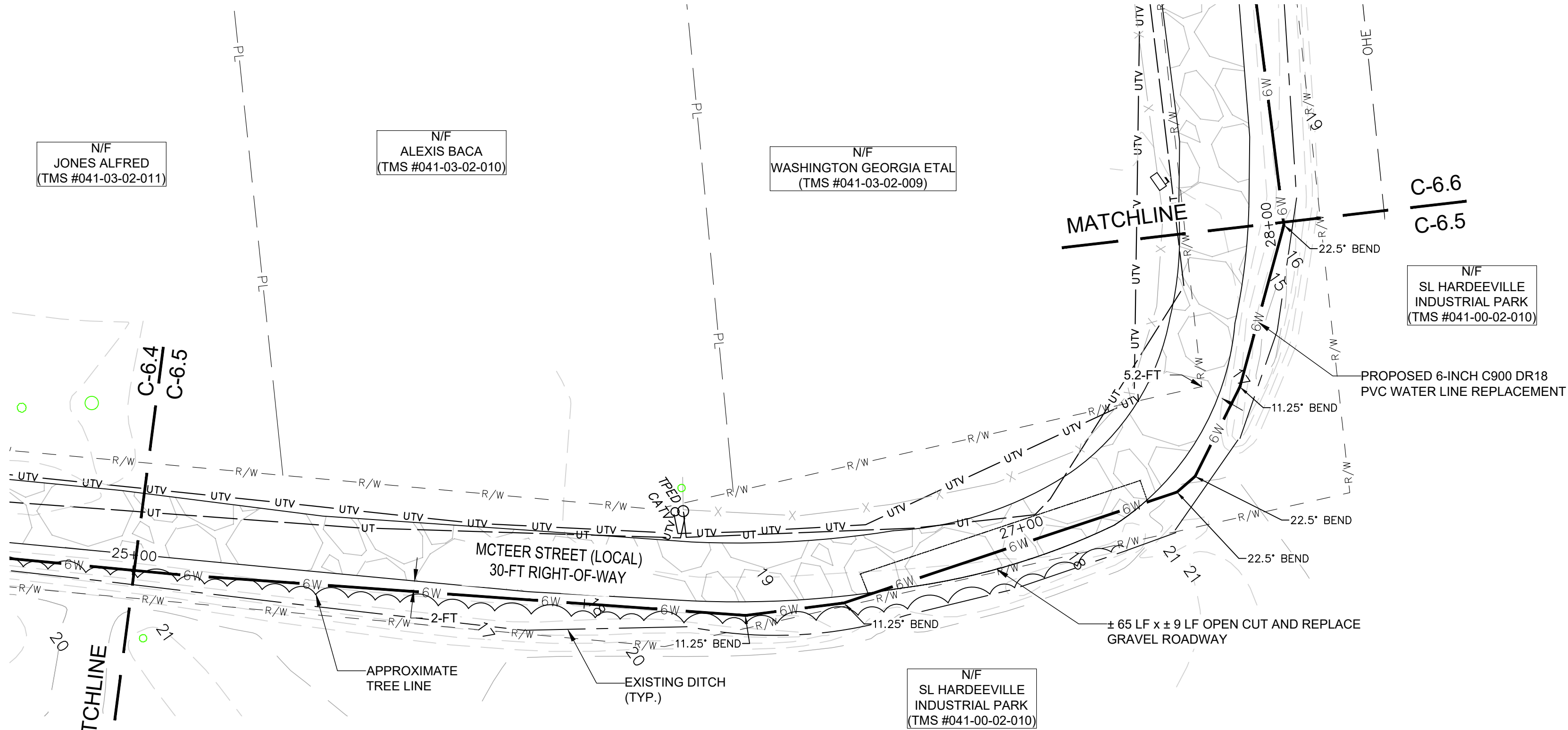
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FILE NAME: 22208 - Plans.dwg
REFERENCE FILE: 22208 - Base.dwg
PROJECT NO. 22208-0027

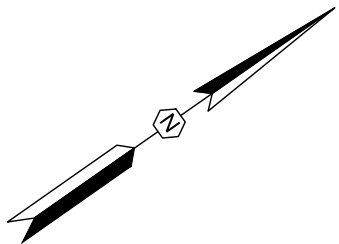
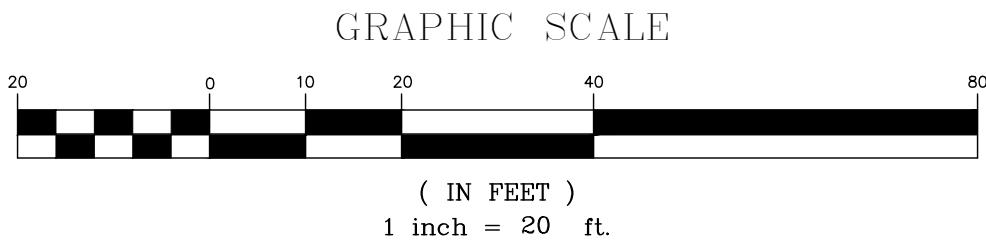
SHEET C-6.4 OF C-13.0

DWG NO. 01.1625-D28

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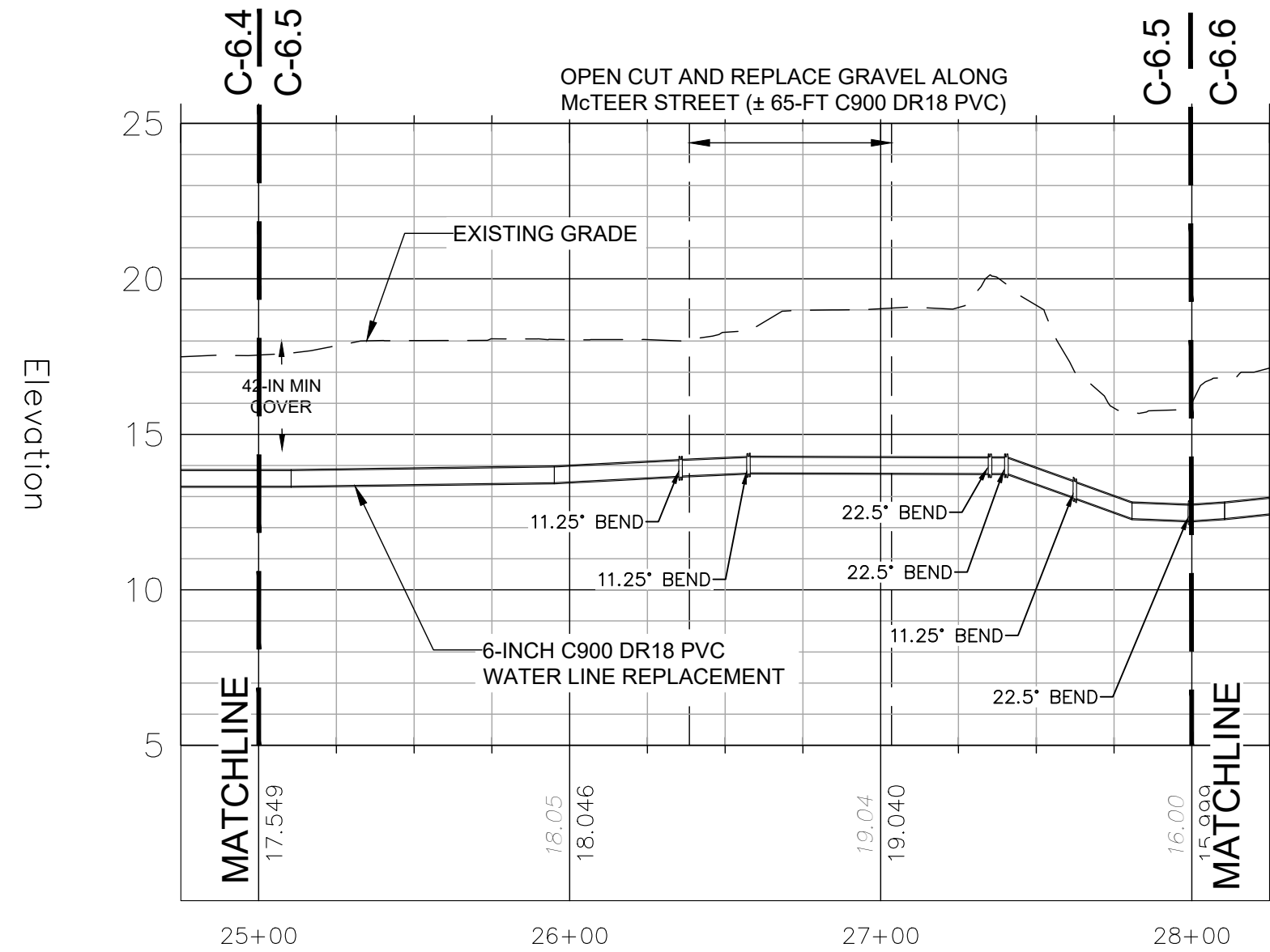
McTeer Street
Plan View
STA: 25+00 TO 28+00



- METER KEY
- ☒ EXISTING WATER METER (GIS)
 - /W EXISTING WATER METER (SURVEY)

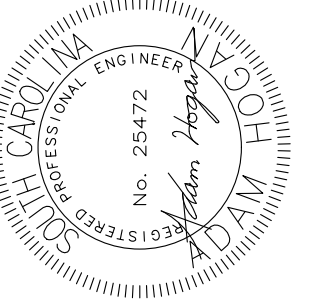
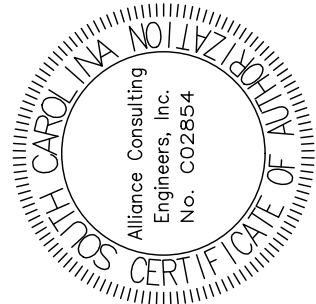
CONSTRUCTION NOTES:

1. CONTRACTOR TO REMOVE AND REPLACE MAILBOXES, SIGNS, AND OTHER STRUCTURES WITHIN THE PROPOSED CONSTRUCTION AREA TO AVOID DAMAGE DURING CONSTRUCTION.
2. CONTRACTOR TO FIELD-LOCATE ALL EXISTING UTILITIES AND STORM DRAINAGE INFRASTRUCTURE PRIOR TO DIGGING AND MAINTAIN MINIMUM 1.5-FT VERTICAL SEPARATION BETWEEN EXISTING UTILITIES AND PROPOSED WATER LINES.
3. ALL WATER LINE CROSSING MUST BE CONSTRUCTED PER THE BEAUFORT JASPER WATER AND SEWER AUTHORITY (BJWSA) STANDARD DETAILS. CONTRACTOR IS RESPONSIBLE FOR REMEDIATION OF ANY DAMAGES WHICH OCCUR DURING CONSTRUCTION. CONTRACTOR IS TO MAINTAIN A MINIMUM OF 10-FT HORIZONTAL SEPARATION FROM WASTEWATER LINES, A MINIMUM 3-FT HORIZONTAL SEPARATION FROM STORM DRAINAGE INFRASTRUCTURE, AND A MINIMUM 5-FT SEPARATION FROM GAS LINES. CONTRACTOR TO NOTIFY BJWSA IF SEPARATION CANNOT BE MAINTAINED AND COORDINATE WITH BJWSA PRIOR TO INSTALLATION OF WATER LINE.
4. CONTRACTOR TO RESURFACE ALL DRIVEWAY/ROADWAY CROSSING INDICATED AS CUT AND REPLACE WITH LIKE MATERIALS PER SCDOT REQUIREMENTS. DRIVEWAYS TO BE RESURFACED FROM EDGE OF PAVEMENT TO EDGE OF RIGHT-OF-WAY, AND ROADWAYS TO BE RESURFACED RADIUS TO RIGHT-OF-WAY. SEE SCDOT STANDARDS DETAILS AND SUPPLEMENTAL CUT AND REPLACE DETAIL. CONTRACTOR TO UTILIZE SCDOT-APPROVED BACKFILL IF TRENCH IS WITHIN 3-FT OF EDGE OF PAVEMENT.
5. CONTRACTOR TO FIELD-LOCATE ALL EXISTING SERVICES AND RECONNECT TO REPLACEMENT WATER LINE. CONTRACTOR TO EXTEND ALL NEW AND EXISTING WATER SERVICES TO THE PROPERTY LINE AND INSTALL THE METER AT THE PROPERTY LINE. THE NEW METER BOX TO BE INSTALLED AT THE PROPERTY LINE WILL BE PROVIDED BY BJWSA.
6. CONTRACTOR TO NOTIFY BJWSA IF AN EXISTING VALVE IS INDICATED TO BE SALVAGED AND IS NOT ACCESSIBLE WITHOUT PAVEMENT CUTS ARE TO COORDINATE WITH BJWSA PRIOR TO COMPLETING THE REMOVAL.
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8. ALL BENDS 45 DEGREES OR GREATER ON PRESSURE MAIN REQUIRE A CONCRETE MARKER (MARKER IN VALVE DETAIL G-12 ON SHEET C-12.0).
9. ALL CASINGS TO EXTEND AT LEAST 5-FT BEYOND THE EDGE-OF-PAVEMENT WHERE FEASIBLE.



McTeer Street
Profile View
STA: 25+00 TO 28+00
HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 5'

REVISION DATE	
DATE	REVISION DESCRIPTION
05/09/24	ISSUE FOR PERMITTING
05/26/25	ISSUE FOR CONSTRUCTION (SCS-LS)
09/11/26	ISSUE FOR BID
APPROVALS	
ENGINEER	ARH
DRAWN	HMW
DESIGNED	MRT
CHECKED BY	ARH
APPROVED	ARH



DATE: 09/11/26

ALLIANCE
CONSULTING ENGINEERS

ALLIANCE CONSULTING ENGINEERS, INC.
124 Verde Bluffs, Suite 100
Phone: (864) 284-1740 • Fax: (864) 284-1741

PROJECT

WATER LINE PLAN AND PROFILE
MC TEER STREET
STA. 25+00 - 28+00

DATE: SEPTEMBER 2026

SCALE: AS SHOWN

GALVANIZED WATER LINE
REPLACEMENT IN THE CITY OF
HARDEEVILLE AND
UNINCORPORATED JASPER
COUNTY

JASPER COUNTY

SOUTH CAROLINA

FILE NAME:
22208 - Plans.dwg

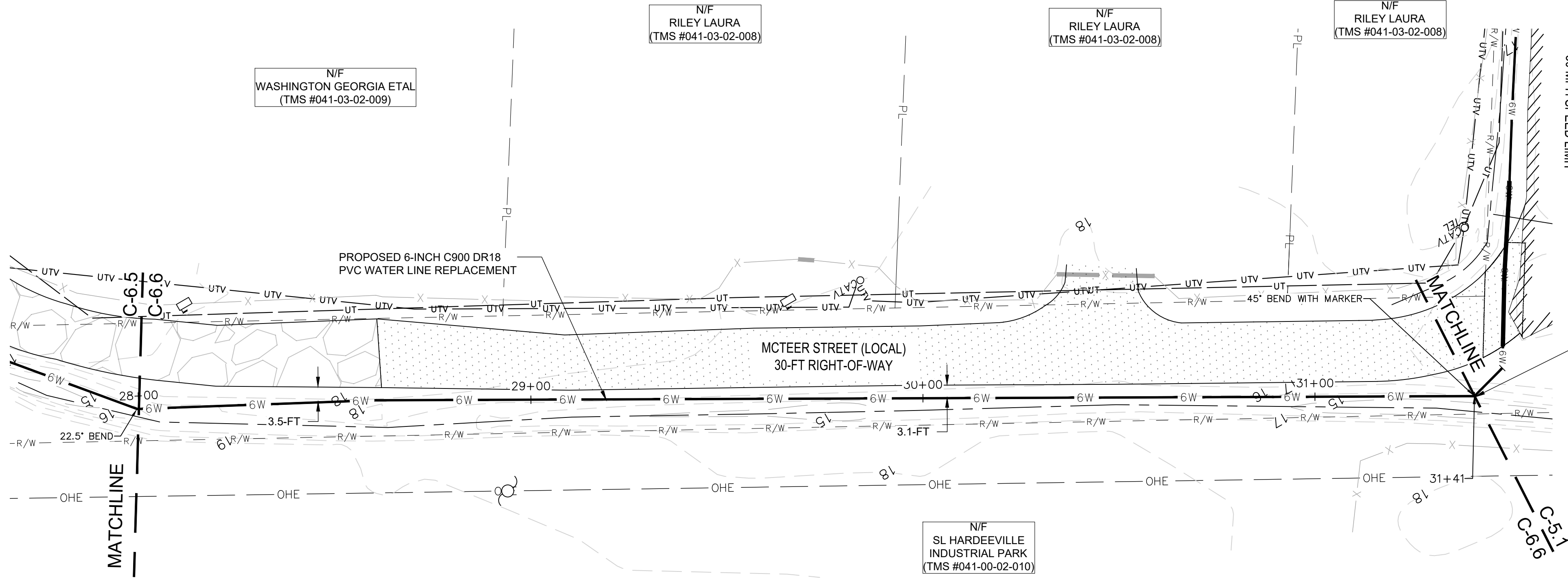
REFERENCE FILE:
22208 - Base.dwg

PROJECT NO.
22208-0027

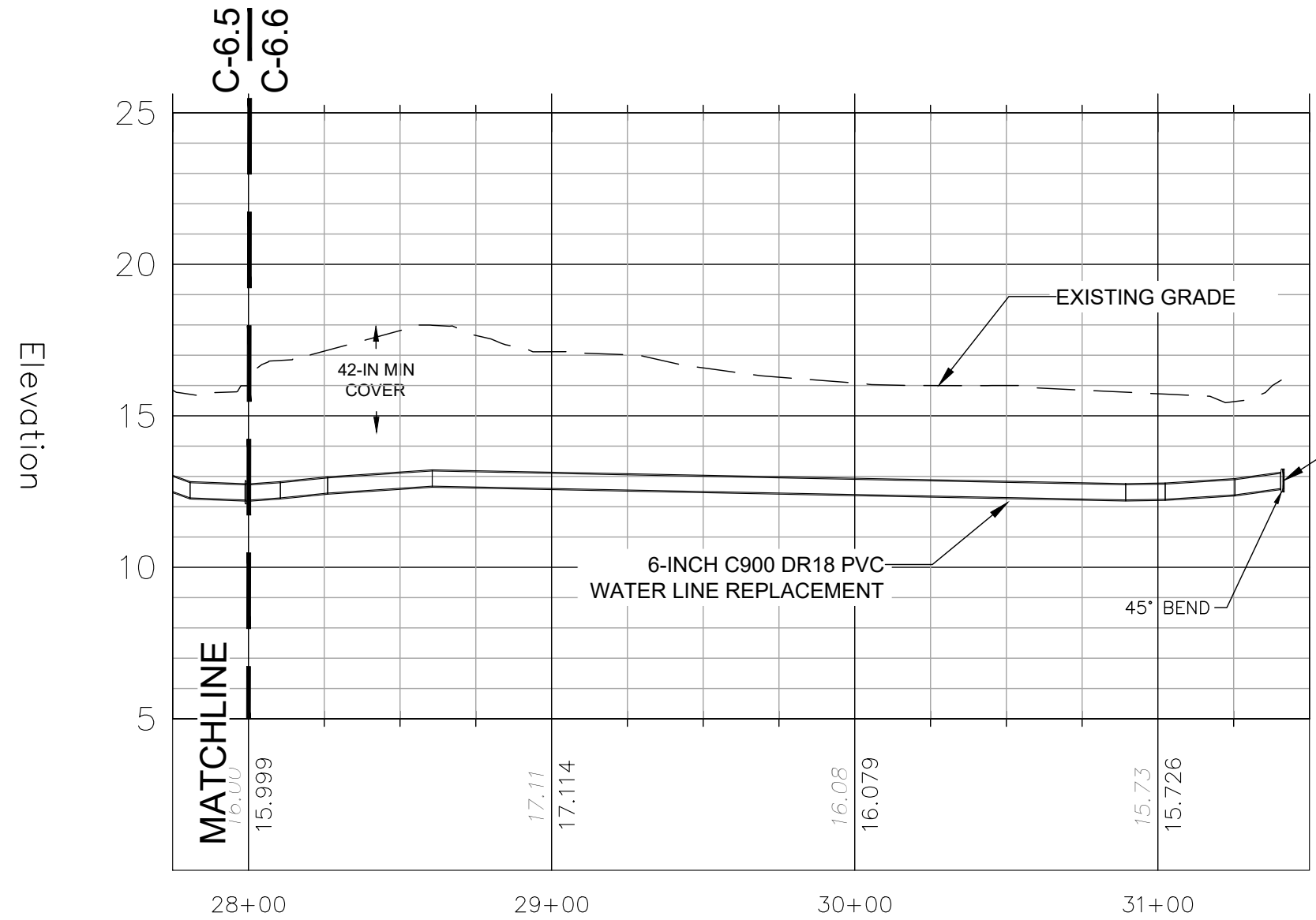
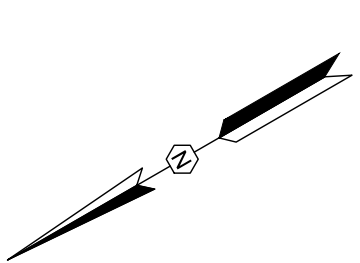
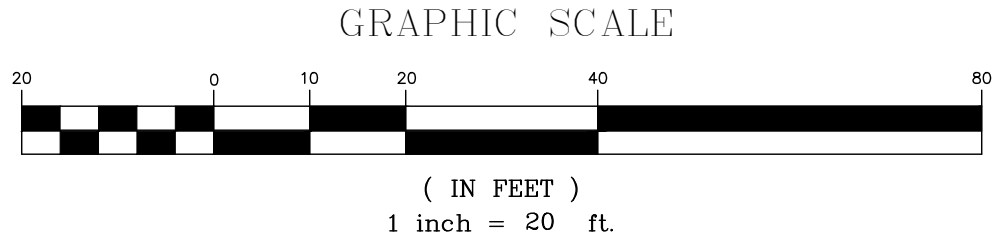
SHEET
C-6.5
OF
C-13.0

DWG NO. 01.1625-D28

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McTeer Street
Plan View
STA: 28+00 TO 31+41



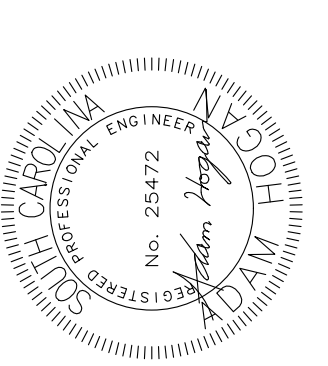
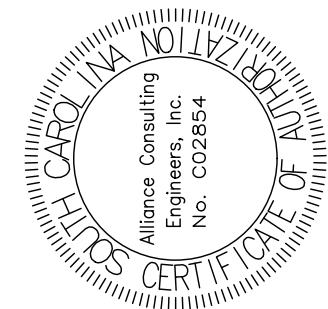
McTeer Street
Profile View
STA: 28+00 TO 31+41
HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 5'

- METER KEY
- EXISTING WATER METER (GIS)
 - EXISTING WATER METER (SURVEY)

CONSTRUCTION NOTES:

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REVISION DATE	
DATE	REVISION DESCRIPTION
05/09/24	ISSUE FOR PERMITTING
05/26/25	ISSUE FOR CONSTRUCTION (SCS L3)
09/11/26	ISSUE FOR BID
APPROVALS	
ENGINEER	ARH
DESIGNER	HMW
TECHNICIAN	MRT
CHECKED BY	ARH
APPROVED	ARH



DATE: 09/11/26

ALLIANCE CONSULTING ENGINEERS
Alliance Consulting Engineers, Inc. SC 29607
124 Venable Blvd., Suite 200, Charleston, SC 29405
Phone: (864) 284-1740 • Fax: (864) 284-1741

PROJECT: GALVANIZED WATER LINE REPLACEMENT IN THE CITY OF HARDEEVILLE AND UNINCORPORATED JASPER COUNTY

SHEET: WATER LINE PLAN AND PROFILE MCTEER STREET STA. 30+00 - 31+41

DATE: SEPTEMBER 2026 SCALE: AS SHOWN

FILE NAME: 22208 - Plans.dwg
REFERENCE FILE: 22208 - Base.dwg
PROJECT NO. 22208-0027

SHEET C-6.6 OF C-13.0

DWG NO. 01.1625-D28

[illegible]

ALLIANCE
CONSULTING ENGINEERS

Alliance Consulting Engineers, Inc.
124 Vedde Blvd. • Bonaventure II, Suite 305 • Greenville, SC 29607
Phone (864) 284-1740 • Fax (864) 284-1741

SCALE: AS SHOWN

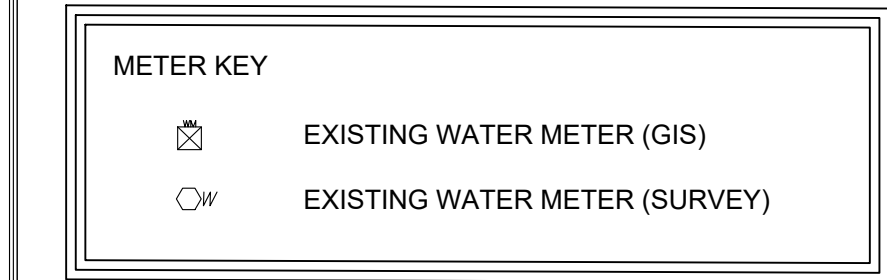
026

DATE: SEPTEMBER 2026

SOUTH CAROLINA

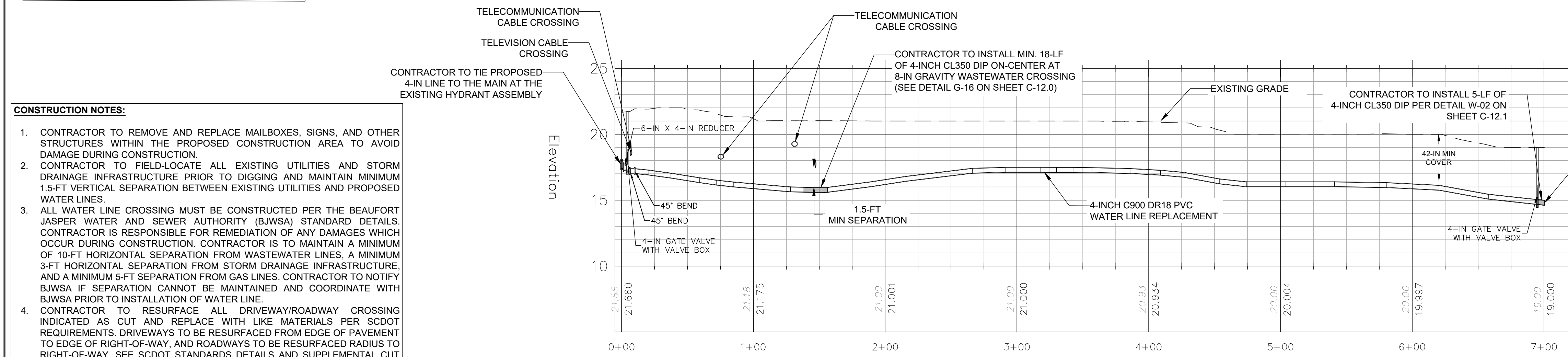
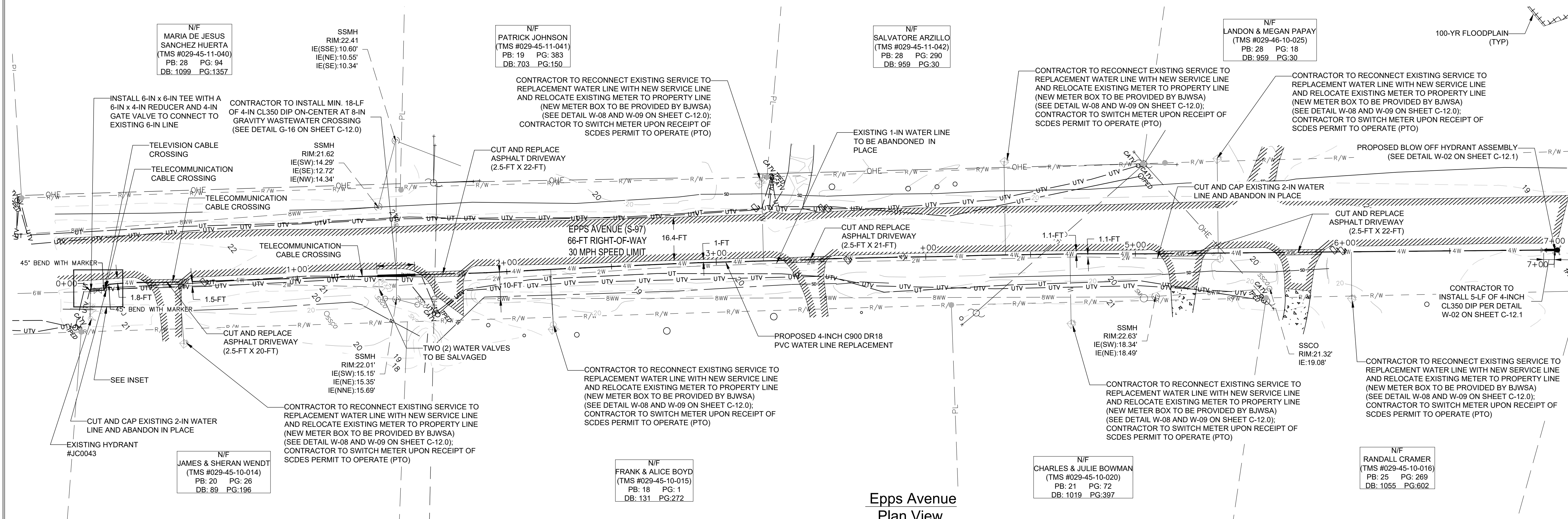
JASPER COUNTY

FILE NAME: 22208 - Plans.dwg	SHEET <u>C-7.0</u>
REFERENCE FILE: 22208 - Base.dwg	OF
PROJECT NO. 22208-0027	<u>C-13.0</u>
DWG NO. 01,1625-D28	

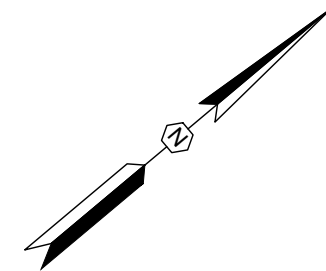
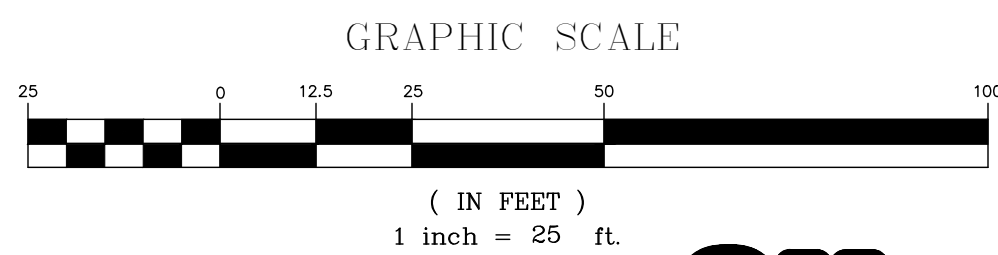


CONSTRUCTION NOTES:

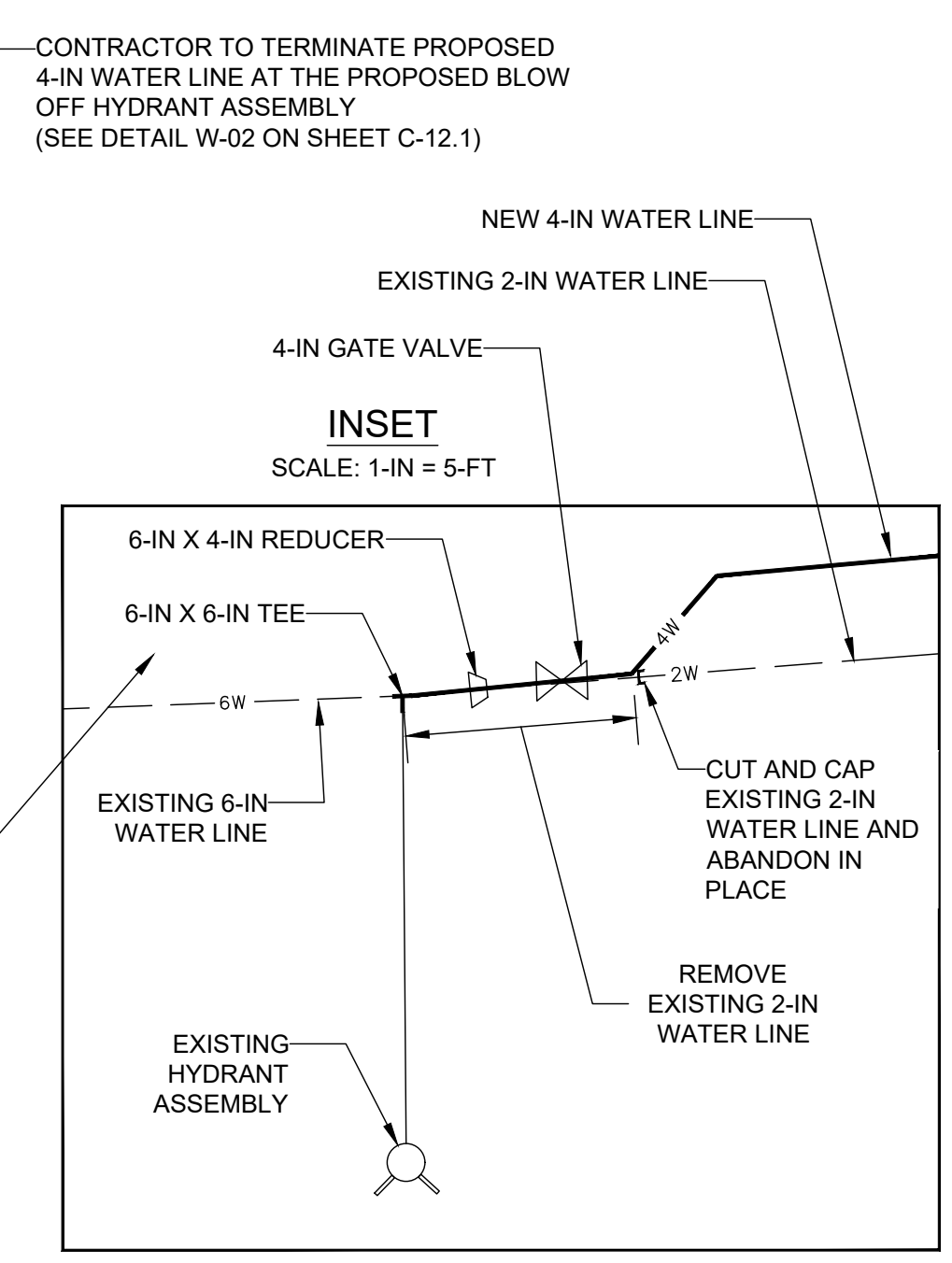
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4. CONTRACTOR TO RESTORE ALL DRIVEWAY/ROADWAY CROSSING INDICATED AS CUT AND REPLACE WITH LIKE MATERIALS PER SCDOT REQUIREMENTS. DRIVEWAYS TO BE RESURFACED FROM EDGE OF PAVEMENT TO EDGE OF RIGHT-OF-WAY, AND ROADWAYS TO BE RESURFACED RADIUS TO RIGHT-OF-WAY. SEE SCDOT STANDARDS DETAILS AND SUPPLEMENTAL CUT AND REPLACE DETAIL. CONTRACTOR TO UTILIZE SCDOT-APPROVED BACKFILL IF TRENCH IS WITHIN 3-FT OF EDGE OF PAVEMENT.
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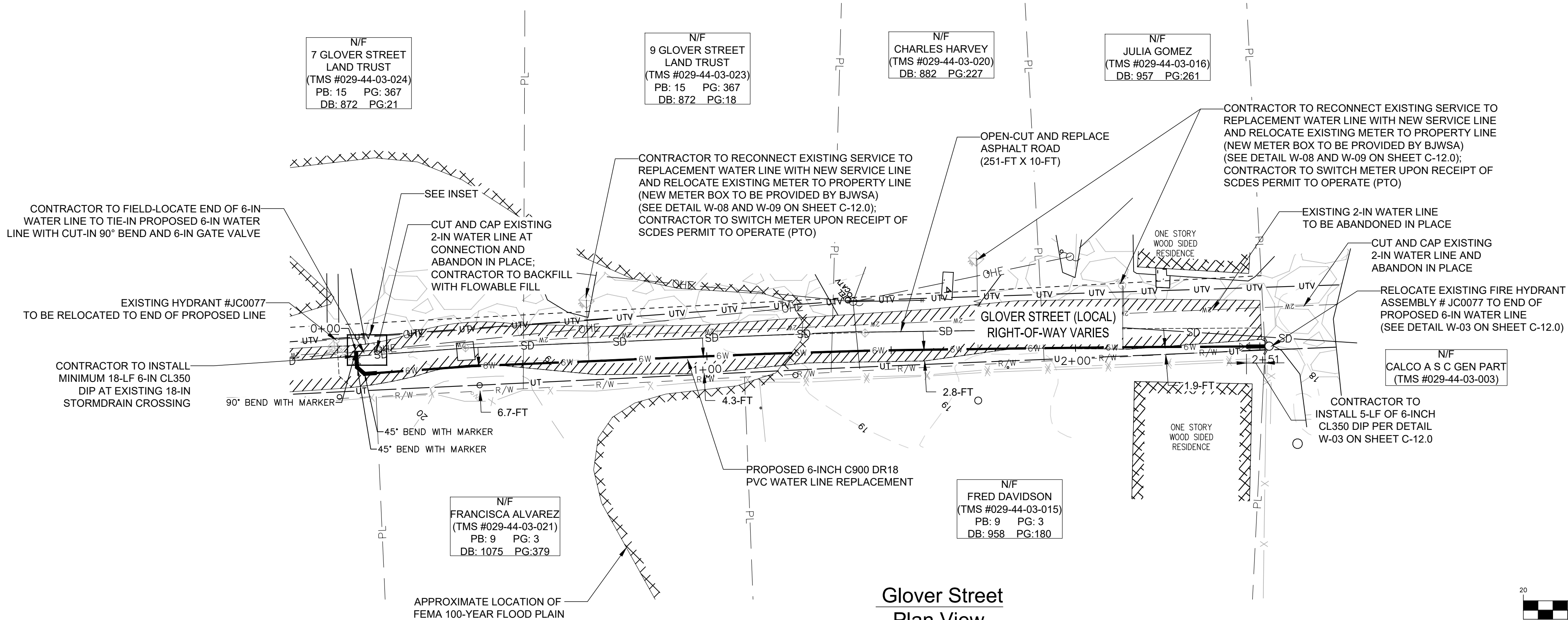
Epps Avenue
Profile View
STA: 0+00 TO 7+00
HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 5'



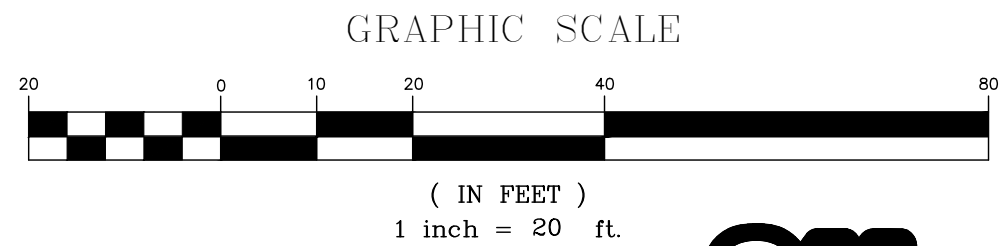
811
Know what's below.
Call before you dig



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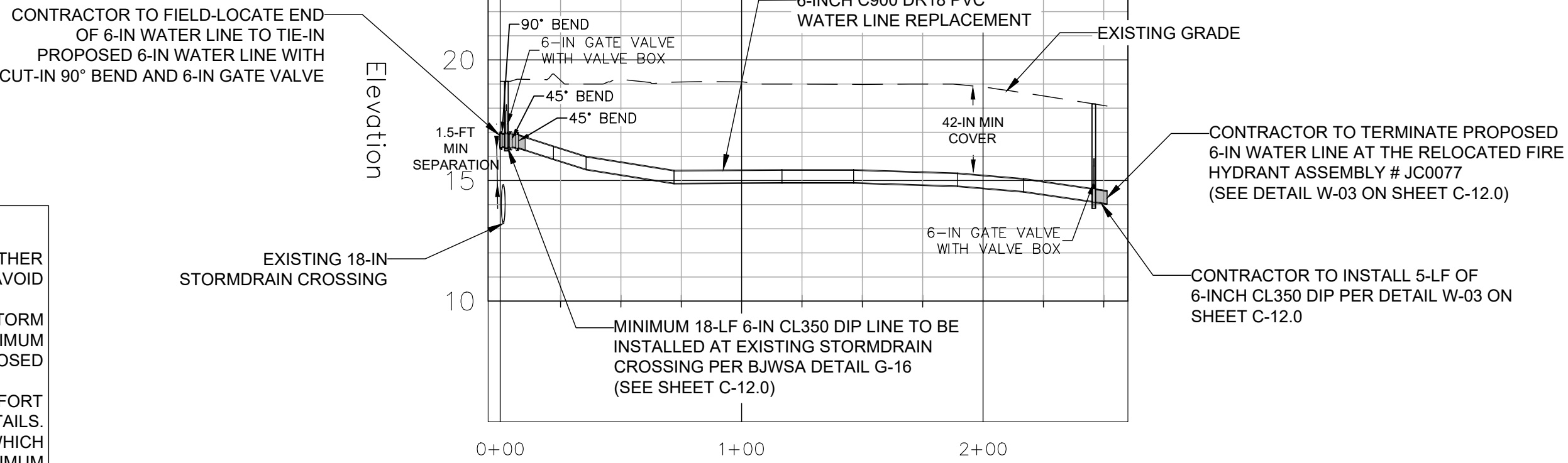
Glover Street
Plan View
STA: 0+00 TO 2+51



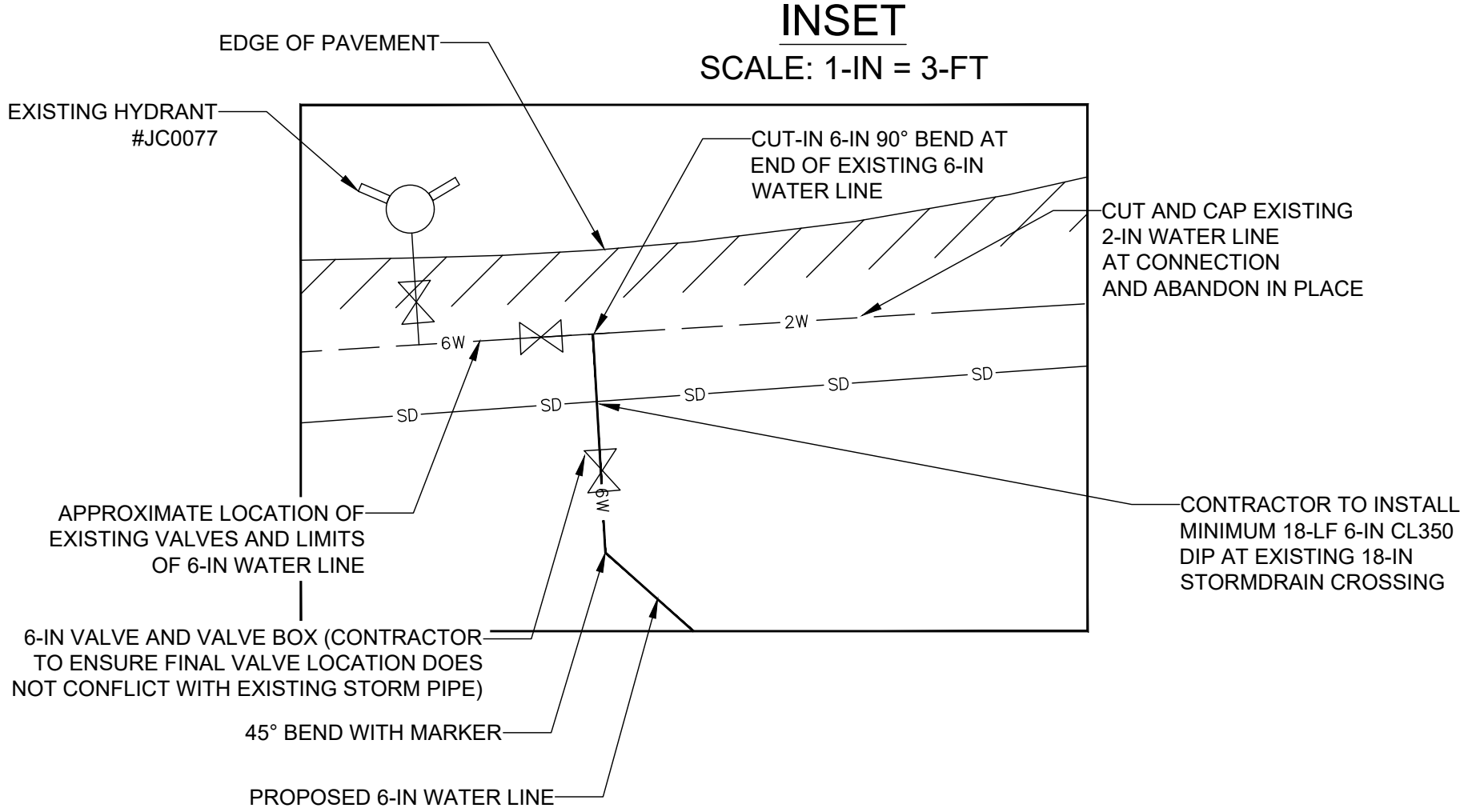
Know what's Below.
Call before you dig.

METER KEY	
	EXISTING WATER METER (GIS)
	EXISTING WATER METER (SURVEY)

- CONSTRUCTION NOTES:**
- CONTRACTOR TO REMOVE AND REPLACE MAILBOXES, SIGNS, AND OTHER STRUCTURES WITHIN THE PROPOSED CONSTRUCTION AREA TO AVOID DAMAGE DURING CONSTRUCTION.
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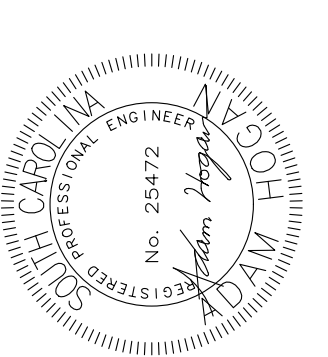
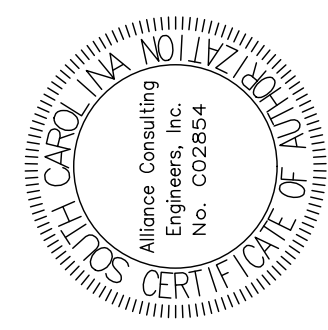


Glover Street
Profile View
STA: 0+00 TO 2+51
HORIZONTAL SCALE: 1" 50'
VERTICAL SCALE: 1" = 5'



REVISION DATE	
DATE	REVISION DESCRIPTION
05/09/24	ISSUE FOR PERMITTING
05/26/25	ISSUE FOR CONSTRUCTION (SCDES LD)
09/11/26	ISSUE FOR BID

APPROVALS	ENGINEER	DESIGNER	TECHNICIAN	CHECKED BY	APPROVED
ARH	ARH	HMW	MRT	ARH	ARH



DATE: 09/11/26

ALLIANCE CONSULTING ENGINEERS
Alliance Consulting Engineers, Inc. SC 29607
124 Venable Blvd., Suite 200, Charleston, SC 29405
Phone (864) 284-1740 • Fax (864) 284-1741

WATER LINE PLAN AND PROFILE
GLOVER STREET

PROJECT SHEET

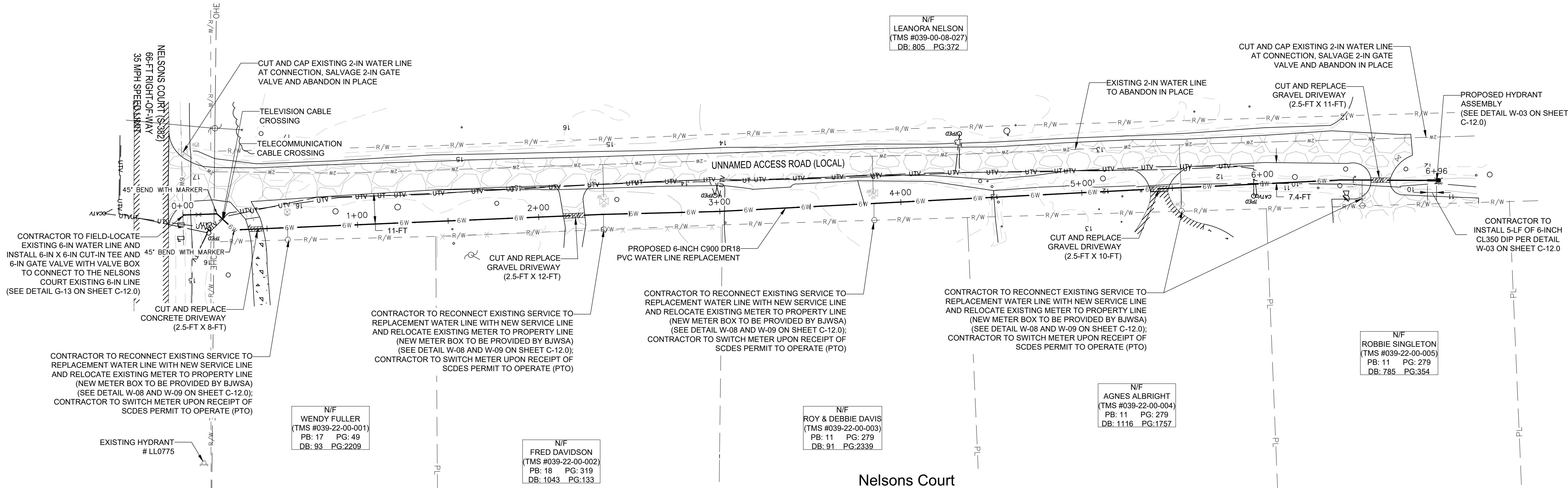
GALVANIZED WATER LINE
REPLACEMENT IN THE CITY OF
HARDEEVILLE AND
UNINCORPORATED JASPER
COUNTY

FILE NAME: 22208 - Plans.dwg
REFERENCE FILE: 22208 - Base.dwg
PROJECT NO. 22208-0027

SHEET C-8.0 OF C-13.0

DWG NO. 01.1625-D28

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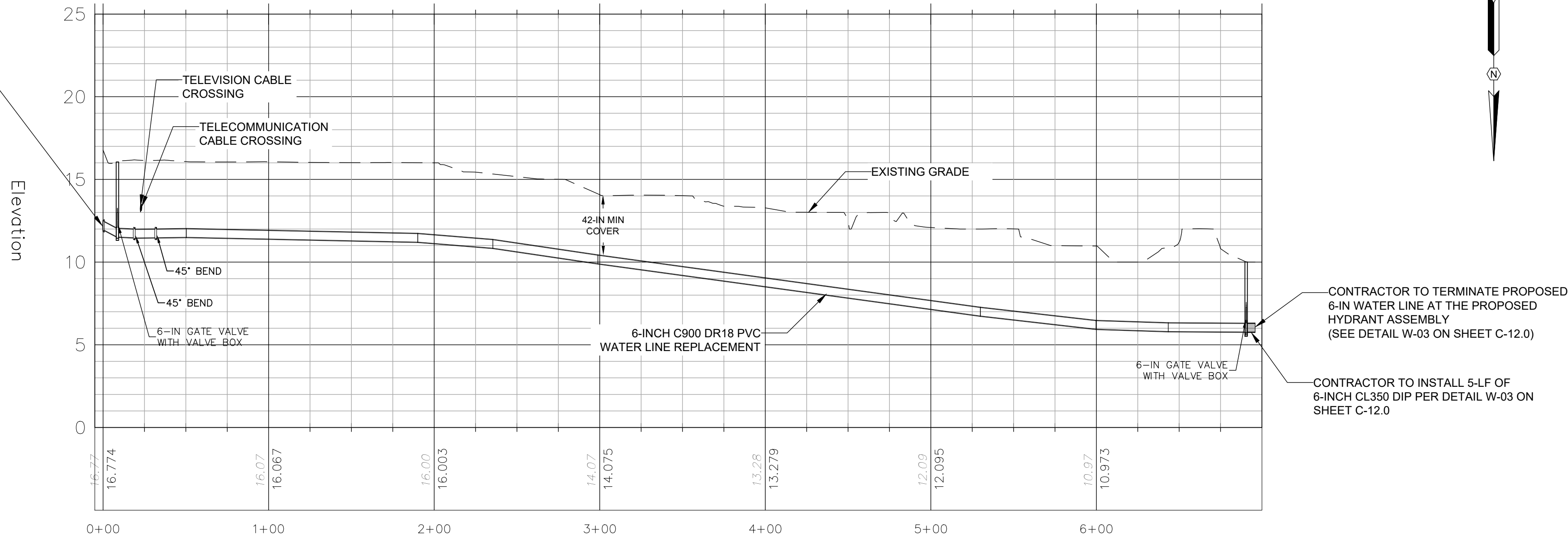
Nelsons Court
Plan View
STA: 0+00 TO 6+96

METER KEY	
	EXISTING WATER METER (GIS)
	EXISTING WATER METER (SURVEY)

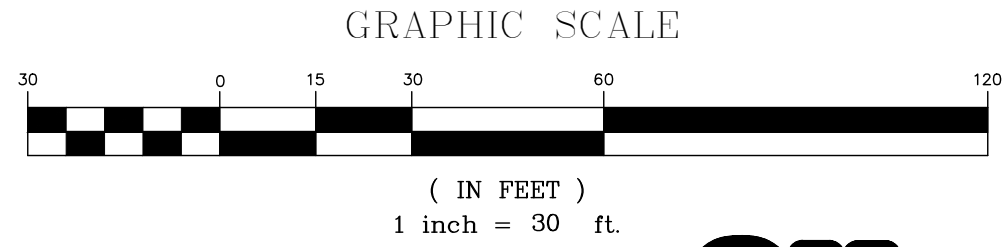
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CONTRACTOR TO FIELD-LOCATE EXISTING 6-IN WATER LINE AND INSTALL 6-IN X 6-IN CUT-IN TEE AND 6-IN GATE VALVE WITH VALVE BOX TO CONNECT TO THE NELSONS COURT EXISTING 6-IN LINE (SEE DETAIL G-13 ON SHEET C-12.0)

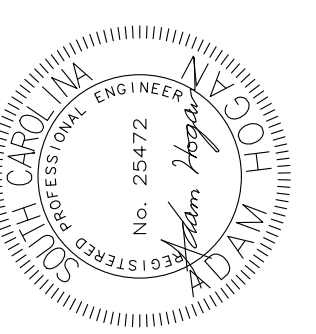
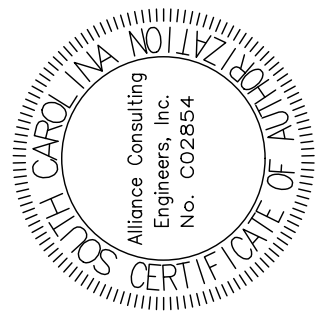


Nelsons Court
Profile View
STA: 0+00 TO 6+96
HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 5'



Know what's below.
Call before you dig.

REVISION DATE	
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APPROVALS	
ENGINEER	ARH
DESIGNER	HMW
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CHECKED BY	ARH
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WATER LINE PLAN AND PROFILE
NELSONS COURT

SHEET

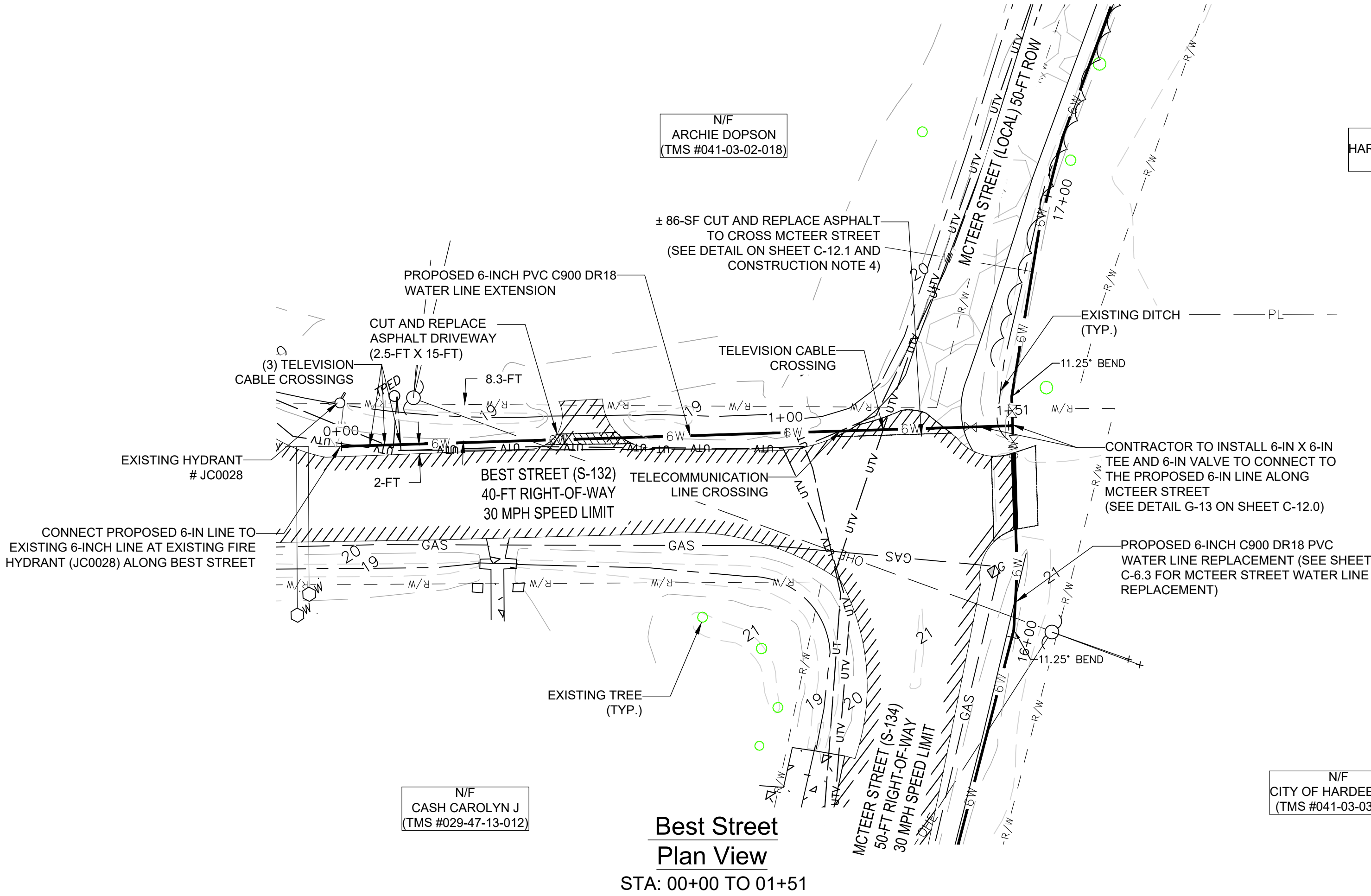
GALVANIZED WATER LINE
REPLACEMENT IN THE CITY OF
HARDEEVILLE AND
UNINCORPORATED JASPER
COUNTY

PROJECT

FILE NAME: 22208 - Plans.dwg	SHEET C-9.0
REFERENCE FILE: 22208 - Base.dwg	OF
PROJECT NO. 22208-0027	C-13.0

DWG NO. 01.1625-D28

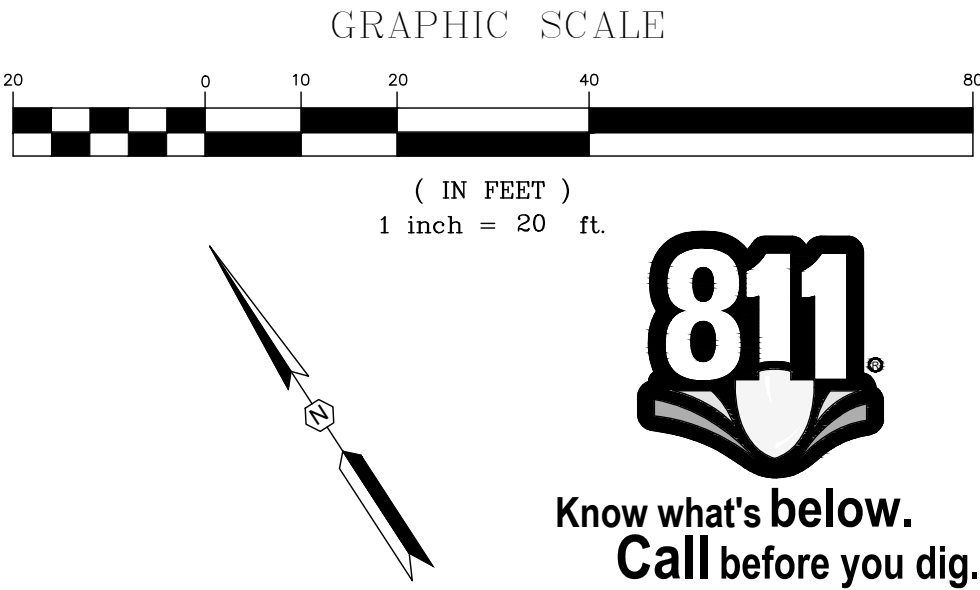
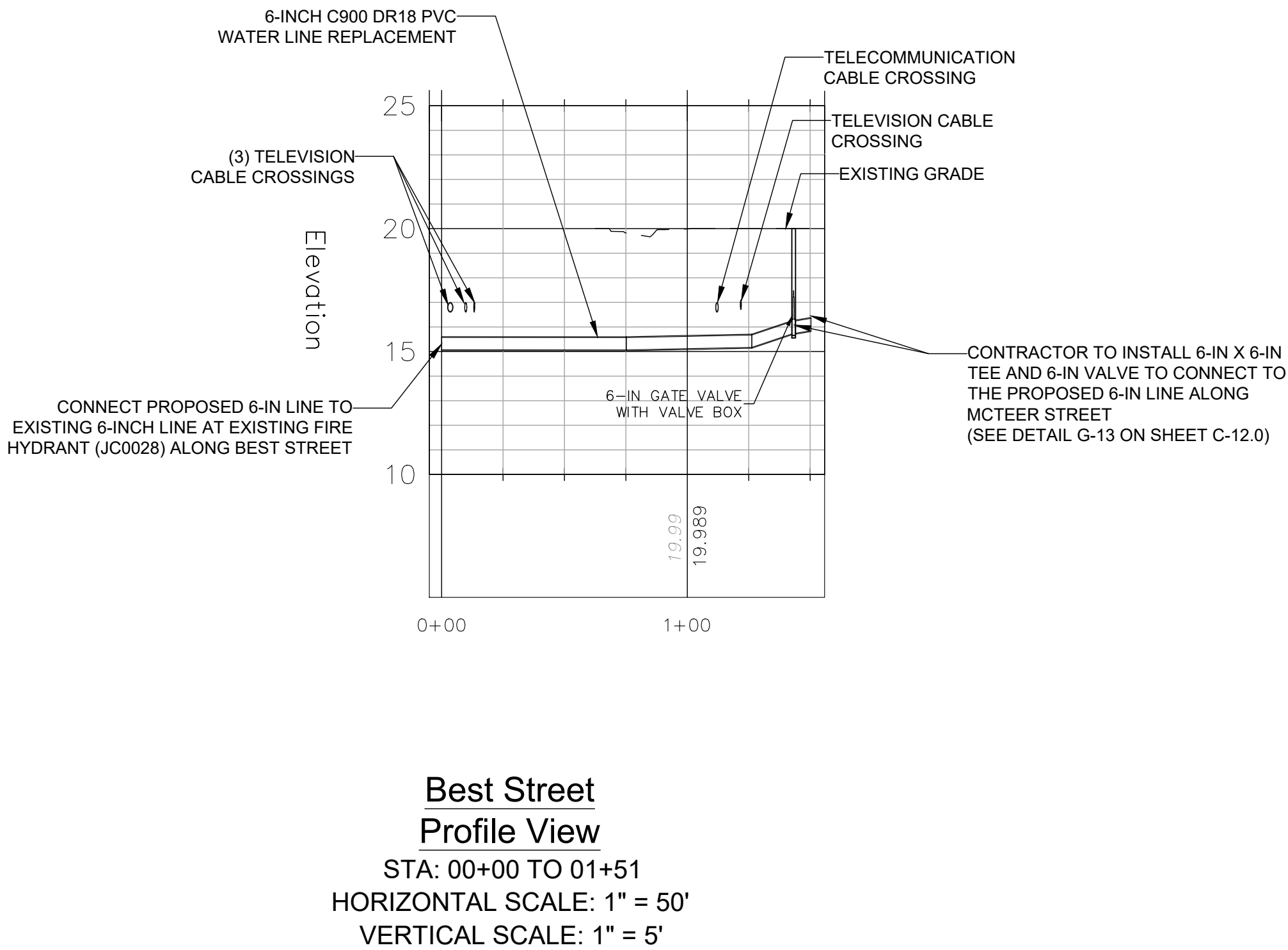
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METER KEY	
	EXISTING WATER METER (GIS)
	EXISTING WATER METER (SURVEY)

CONSTRUCTION NOTES:

- CONTRACTOR TO REMOVE AND REPLACE MAILBOXES, SIGNS, AND OTHER STRUCTURES WITHIN THE PROPOSED CONSTRUCTION AREA TO AVOID DAMAGE DURING CONSTRUCTION.
- CONTRACTOR TO FIELD-LOCATE ALL EXISTING UTILITIES AND STORM DRAINAGE INFRASTRUCTURE PRIOR TO DIGGING AND MAINTAIN MINIMUM 1.5-FT VERTICAL SEPARATION BETWEEN EXISTING UTILITIES AND PROPOSED WATER LINES.
- ALL WATER LINE CROSSING MUST BE CONSTRUCTED PER THE BEAUFORT JASPER WATER AND SEWER AUTHORITY (BJWSA) STANDARD DETAILS. CONTRACTOR IS RESPONSIBLE FOR REMEDIATION OF ANY DAMAGES WHICH OCCUR DURING CONSTRUCTION. CONTRACTOR IS TO MAINTAIN A MINIMUM OF 10-FT HORIZONTAL SEPARATION FROM WASTEWATER LINES, A MINIMUM 3-FT HORIZONTAL SEPARATION FROM STORM DRAINAGE INFRASTRUCTURE, AND A MINIMUM 5-FT SEPARATION FROM GAS LINES. CONTRACTOR TO NOTIFY BJWSA IF SEPARATION CANNOT BE MAINTAINED AND COORDINATE WITH BJWSA PRIOR TO INSTALLATION OF WATER LINE.
- CONTRACTOR TO RESURFACE ALL DRIVEWAY/ROADWAY CROSSING INDICATED AS CUT AND REPLACE WITH LIKE MATERIALS PER SCDOT REQUIREMENTS. DRIVEWAYS TO BE RESURFACED FROM EDGE OF PAVEMENT TO EDGE OF RIGHT-OF-WAY, AND ROADWAYS TO BE RESURFACED RADIUS TO RIGHT-OF-WAY. SEE SCDOT STANDARDS DETAILS AND SUPPLEMENTAL CUT AND REPLACE DETAIL. CONTRACTOR TO UTILIZE SCDOT-APPROVED BACKFILL IF TRENCH IS WITHIN 3-FT OF EDGE OF PAVEMENT.
- CONTRACTOR TO FIELD-LOCATE ALL EXISTING SERVICES AND RECONNECT TO REPLACEMENT WATER LINE. CONTRACTOR TO EXTEND ALL NEW AND EXISTING WATER SERVICES TO THE PROPERTY LINE AND INSTALL THE METER AT THE PROPERTY LINE. THE NEW METER BOX TO BE INSTALLED AT THE PROPERTY LINE WILL BE PROVIDED BY BJWSA.
- CONTRACTOR TO NOTIFY BJWSA IF AN EXISTING VALVE IS INDICATED TO BE SALVAGED AND IS NOT ACCESSIBLE WITHOUT PAVEMENT CUTS ARE TO COORDINATE WITH BJWSA PRIOR TO COMPLETING THE REMOVAL.
- CONTRACTOR TO INSTALL SILT FENCE ALONG DOWNSTREAM SIDE OF LIMITS OF DISTURBANCE AND UTILIZE SEDIMENT TUBES AS NEEDED TO MAINTAIN EROSION AND SEDIMENT CONTROL STANDARDS. SEE EROSION AND SEDIMENT CONTROL DETAILS.
- ALL BENDS 45 DEGREES OR GREATER ON PRESSURE MAIN REQUIRE A CONCRETE MARKER (MARKER IN VALVE DETAIL G-12 ON SHEET C-12.0).
- ALL CASINGS TO EXTEND AT LEAST 5-FT BEYOND THE EDGE-OF-PAVEMENT WHERE FEASIBLE.



REVISION		DATE
DATE	REVISION DESCRIPTION	
05/09/24	ISSUE FOR PERMITTING	
05/26/25	ISSUE FOR CONSTRUCTION (SCS-LS)	
09/11/26	ISSUE FOR BID	
APPROVALS	ENGINEER	ARH
	DESIGNER	HMW
	TECHNICIAN	MRT
	CHECKED BY	ARH
	APPROVED	ARH

DATE: 09/11/26

DATE: 09/11/26

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PROJECT

GALVANIZED WATER LINE REPLACEMENT IN THE CITY OF HARDEEVILLE AND UNINCORPORATED JASPER COUNTY

JASPER COUNTY SOUTH CAROLINA

FILE NAME: 22208 - Plans.dwg

REFERENCE FILE: 22208 - Base.dwg

PROJECT NO. 22208-0027

SHEET C-10.0

OF C-13.0

DWG NO. 01.1625-D28

WATER LINE PLAN AND PROFILE

BEST STREET

STA. 00+00 - 01+51

SCALE: AS SHOWN

DATE: SEPTEMBER 2026

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TEMPORARY GRASSING SCHEDULE: (TG)

DESCRIPTION:
THE PURPOSE OF TEMPORARY SEEDING IS TO REDUCE EROSION AND SEDIMENTATION BY STABILIZING DISTURBED AREAS THAT WOULD OTHERWISE LAY BARE FOR LONG PERIODS OF TIME BEFORE THEY ARE WORKED OR STABILIZED. TEMPORARY SEEDING IS ALSO USED WHERE PERMANENT VEGETATION GROWTH IS NOT NECESSARY OR APPROPRIATE.

WHEN AND WHERE TO USE IT:
TEMPORARY SEEDING IS USED ON EXPOSED SOIL SURFACES SUCH AS DENUDED AREAS, SOIL STOCKPILES, DIKES, DAMS, BANKS OF SEDIMENT BASINS, BANKS OF SEDIMENT TRAPS, AND TEMPORARY ROAD BANKS. TEMPORARY SEEDING PREVENTS AND LIMITS COSTLY MAINTENANCE OPERATIONS ON OTHER SEDIMENT CONTROL STRUCTURES. SEDIMENT CLEANOUT REQUIREMENTS FOR SEDIMENT BASINS, SEDIMENT, TRAPS, AND SILT FENCE IS REDUCED IF THE DRAINAGE AREA IS SEEDED WHEN GRADING AND CONSTRUCTION OPERATION ARE NOT TAKING PLACE.
TEMPORARY STABILIZATION IS REQUIRED WITHIN 14 DAYS AFTER CONSTRUCTION ACTIVITY IS COMPLETE UNLESS CONSTRUCTION ACTIVITY IS GOING TO RESUME WITHIN 21 DAYS. COVER SEEDED AREAS WITH AN APPROPRIATE MULCH TO PROVIDE PROTECTION FROM THE WEATHER. WHEN THE TEMPORARY VEGETATION DOES NOT GROW QUICKLY OR THICK ENOUGH TO PREVENT EROSION, RE-SEED AS SOON AS POSSIBLE. KEEP SEEDED AREAS ADEQUATELY MOIST. IRRIGATE THE SEEDED AREA IF NORMAL RAINFALL IS NOT ADEQUATE FOR THE GERMINATION AND GROWTH OF SEEDLINGS. WATER SEEDED AREAS AT CONTROLLED RATES THAT ARE LESS THAN THE RATE AT WHICH THE SOIL CAN ABSORB WATER TO PREVENT RUNOFF. RUNOFF OF IRRIGATION WATER WASTES WATER AND CAN CAUSE EROSION.

SEED SELECTION (SEE SCDDOT SEEDING SPECIFICATION TABLE 2: ANNUALS FOR TEMPORARY SEED SELECTION AND RATES):
SEED SELECTION IS BASED ON GEOGRAPHICAL LOCATION, SOIL TYPE AND THE SEASON OF THE YEAR IN WHICH THE PLANTING IS TO BE DONE. USE THE TABLES IN APPENDIX C AS A GUIDE FOR CONVENTIONAL TILLAGE METHODS (PLOWING, SEED BED PREPARATION, HYDROSEEDING, ETC). IF A FAST GROWING CROP TO NURSE THE PERMANENT SPECIE OR SPECIES IS REQUIRED, THEN USE THE MIX RATE. FAILURE TO CAREFULLY FOLLOW AGRONOMIC RECOMMENDATIONS RESULTS IN AN INADEQUATE STAND OF TEMPORARY VEGETATION THAT PROVIDES LITTLE OR NO EROSION CONTROL.

TILLAGE:
IF THE AREA HAS BEEN RECENTLY PLOWED, NO TILLAGE IS REQUIRED OTHER THAN RAKING OR SURFACE ROUGHENING TO BREAK ANY CRUST THAT HAS FORMED LEAVING A TEXTURED SURFACE. DISK THE SOIL FOR OPTIMAL GERMINATION WHEN THE SOIL IS COMPACTED LESS THAN 6 INCHES.

FERTILIZER:
APPLY A MINIMUM OF 500 POUNDS PER ACRE OF 10-10-10 FERTILIZER (11.5 POUNDS PER 1000 SQUARE FEET) OR EQUIVALENT DURING TEMPORARY SEEDING UNLESS A SOIL TEST INDICATES A DIFFERENT REQUIREMENT. INCORPORATE FERTILIZER AND LIME (IF USED) INTO THE TOP 4-6 INCHES OF THE SOIL BY DISKING OR OTHER MEANS WHERE CONDITIONS ALLOW.

SEEDING:
LOOSEN THE SOIL SURFACE BEFORE BROADCASTING THE SEED. APPLY SEED EVENLY BY THE MOST CONVENIENT METHOD AVAILABLE FOR THE TYPE OF SEED USED AND THE LOCATION OF THE TEMPORARY SEEDING. TYPICAL APPLICATION METHODS INCLUDE BUT ARE NOT LIMITED TO CYCLONE SEEDERS, ROTARY SPREADERS, DROP SPREADERS, BROADCAST SPREADERS, HAND SPREADERS, CULTIPACKER SEEDER, AND HYDRO-SEEDERS. COVER APPLIED SEED BY RAKING OR DRAGGING A CHAIN, AND THEN LIGHTLY FIRM THE AREA WITH A ROLLER OR CULTIPACKER.

MULCHING:
USE MULCH WITH TEMPORARY SEED APPLICATIONS TO RETAIN SOIL MOISTURE AND REDUCE EROSION DURING THE ESTABLISHMENT OF VEGETATION. TYPICAL MULCH APPLICATIONS INCLUDE STRAW, WOOD FIBER, HYDROMULCHES, BFM AND FGM. USE HYDROMULCHES WITH A MINIMUM BLEND OF 70% WOOD FIBERS.
THE MOST COMMONLY ACCEPTED MULCH USED IN CONJUNCTION WITH TEMPORARY SEEDING IS SMALL GRAIN STRAW. THIS STRAW SHOULD BE DRY AND FREE FROM MOLD DAMAGE AND NOXIOUS WEEDS. THE STRAW MAY NEED TO BE ANCHORED WITH NETTING OR EMULSIONS TO PREVENT IT FROM BEING BLOWN OR WASHED AWAY. APPLY THE STRAW MULCH BY HAND OR MACHINE AT THE RATE 1.5-2 TONS PER ACRE (90 POUNDS PER 1000 SQUARE FEET). FREQUENT INSPECTIONS ARE NECESSARY TO CHECK THAT CONDITIONS FOR GROWTH ARE GOOD.

IRRIGATION:
SEEDED AREAS SHOULD BE KEPT ADEQUATELY MOIST. IRRIGATE THE SEEDED AREA IF NORMAL RAINFALL IS NOT ADEQUATE FOR THE GERMINATION AND GROWTH OF SEEDLINGS. WATER SEEDED AREAS AT CONTROLLED RATES THAT ARE LESS THAN THE RATE AT WHICH THE SOIL CAN ABSORB WATER TO PREVENT RUNOFF. RUNOFF OF IRRIGATION WATER WASTES WATER AND CAN CAUSE EROSION.

RE-SEEDING:
RE-SEED AREAS WHERE SEEDING DOES NOT GROW QUICKLY, THICK ENOUGH, OR ADEQUATELY TO PREVENT EROSION. BASE SEED SELECTION SHOULD ON THE REQUIREMENTS OF LOCAL SPECIFICATIONS.

INSPECTION AND MAINTENANCE:
• INSPECT EVERY 7 CALENDAR DAYS AND WITHIN 24-HOURS AFTER EACH RAINFALL EVENT THAT PRODUCES ¼-INCHES OR MORE OF PRECIPITATION.
• COVER SEEDED WITH MULCH TO PROVIDE PROTECTION. FREQUENT INSPECTIONS ARE NECESSARY TO CHECK THAT CONDITIONS FOR GROWTH ARE GOOD.
• SUPPLY TEMPORARY SEEDING WITH ADEQUATE MOISTURE. SUPPLY WATER AS NEEDED, ESPECIALLY IN ABNORMALLY HOT OR DRY WEATHER OR ON ADVERSE SITES. CONTROL WATER APPLICATION RATES TO PREVENT RUNOFF.
• BASE SEED SELECTION ON LOCAL SPECIFICATIONS.
• RE-SEED AREAS WHERE THE PLANTS DO NOT GROW QUICK ENOUGH, THICK ENOUGH, OR ADEQUATELY ENOUGH TO PREVENT EROSION SHOULD BE RE-SEEDED.

EROSION CONTROL NOTES:

- EROSION CONTROL MEASURES ARE TO BE ACCOMPLISHED PRIOR TO ANY OTHER CONSTRUCTION ON SITE AND BE MAINTAINED UNTIL THE PERMANENT GROUND COVER IS ESTABLISHED.
- ALL EROSION CONTROL DEVICES MUST MEET OR EXCEED THE STANDARDS AND SPECIFICATIONS OF JASPER COUNTY AND THE STATE OF SOUTH CAROLINA.
- ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSPECTED DAILY, AND ANY DAMAGE OBSERVED SHALL BE REPAIRED IMMEDIATELY.
- ALL UNSURFACED AREAS, WHICH ARE DISTURBED, TO RECEIVE 4 INCHES OF TOPSOIL, SEED, AND MULCH UNTIL A HEALTHY STAND OF GRASS IS OBTAINED.
- TEMPORARY STABILIZATION MULCH REQUIREMENTS:
 - MULCH SHALL BE UNCHOPPED, UNROTTED, SMALL GRAIN STRAW APPLIED AT A RATE OF 70 TO 90 LBS. PER 1,000 SQUARE FEET. MULCH MATERIALS SHALL BE RELATIVELY FREE OF ALL KINDS OF WEEDS AND SHALL BE FREE OF NOXIOUS WEEDS. SPREAD MULCH MECHANICALLY OR UNIFORMLY BY HAND; MULCH ANCHORING SHALL BE ACCOMPLISHED IMMEDIATELY AFTER MULCH PLACEMENT TO MINIMIZE LOSS BY WIND OR WATER. THIS MAY BE DONE BY PEG AND TWINE METHOD, MULCH ANCHORING TOOL, NETTING OR LIQUID MULCH BINDERS.
- SILT FENCE MUST MEET THE REQUIREMENTS FOR TEMPORARY SILT FENCE OF THE SC DEPARTMENT OF TRANSPORTATION. USE ONLY FABRIC THAT APPEARS ON SDDOT APPROVAL SHEET 34.
- ADDITIONAL EROSION CONTROL MEASURES WILL BE EMPLOYED WHERE DETERMINED NECESSARY BY ACTUAL SITE CONDITIONS.
- PRIOR TO ANY OTHER CONSTRUCTION, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED AT EACH POINT OF ENTRY TO OR EXIT FROM THE SITE, UNLESS ENTRANCE IS BARRICADED FROM USE.
- THE CONSTRUCTION EXITS SHALL BE MAINTAINED IN A CONDITION TO PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY AND ADJACENT PROPERTY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH STONE, AS CONDITIONS DEMANDS, AND REPAIR AND/OR CLEAN-OUT OF ANY STRUCTURES USED TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLE OFF SITE ONTO PUBLIC ROADWAY OR INTO STORM DRAIN MUST BE REMOVED IMMEDIATELY.
- PRIOR TO COMMENCING LAND DISTURBANCE ACTIVITY, 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 INDICATED ON THE APPROVED PLANS.
- IMMEDIATELY AFTER THE ESTABLISHMENT OF CONSTRUCTION ENTRANCES/EXITS, ALL PERIMETER EROSION CONTROL DEVICES AND STORMWATER MANAGEMENT DEVICES SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION.
- OWNER/DEVELOPER AGREES TO PROVIDE AND MAINTAIN OFF-STREET PARKING ON THE SUBJECT PROPERTY DURING THE ENTIRE CONSTRUCTION PERIOD.
- THE CONTRACTOR SHALL FURNISH AND MAINTAIN ALL NECESSARY BARRICADES WHILE ROADWAY FRONTAGE IMPROVEMENTS ARE BEING MADE.
- THE CONSTRUCTION OF THE SITE WILL INITIATE WITH THE INSTALLATION OF EROSION CONTROL MEASURES SUFFICIENT TO CONTROL SEDIMENT DEPOSITS AND EROSION. ALL SEDIMENT CONTROL WILL BE MAINTAINED UNTIL ALL UPSTREAM GROUND WITHIN THE CONSTRUCTION AREA HAS BEEN COMPLETELY STABILIZED WITH PERMANENT VEGETATION AND ALL ROADS/DRIVEWAYS HAVE BEEN PAVED.
- EROSION CONTROL DEVICES SHALL BE INSTALLED IMMEDIATELY AFTER GROUND DISTURBANCE OCCURS. THE LOCATION OF SOME OF THE EROSION CONTROL DEVICES MAY HAVE 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. ANY DIFFICULTY IN CONTROLLING EROSION DURING ANY PHASE OF CONSTRUCTION SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.
- ALL SILT BARRIERS MUST BE PLACED AS ACCESS IS OBTAINED. NO GRADING SHALL BE DONE UNTIL SILT BARRIER INSTALLATION AND DETENTION FACILITIES ARE CONSTRUCTED.
- CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL MEASURES UNTIL PERMANENT VEGETATION HAS BEEN ESTABLISHED. CONTRACTOR SHALL CLEAN OUT ALL SEDIMENT TRAPS WHEN REQUIRED BY ENGINEER OR THE JASPER COUNTY INSPECTOR. CONTRACTOR SHALL INSPECT EROSION CONTROL MEASURES AT THE END OF EACH WORKING DAY TO ENSURE MEASURES ARE FUNCTIONING PROPERLY.
- THE CONTRACTOR SHALL REMOVE ACCUMULATED SILT WHEN THE SILT IS WITHIN 12" OF THE TOP OF THE SILT FENCE UTILIZED FOR EROSION CONTROL.
- FAILURE TO INSTALL, OPERATE OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB SITE UNTIL SUCH MEASURES ARE CORRECTED BACK TO STATE OF SOUTH CAROLINA STANDARDS.
- ALL CONSTRUCTION SHALL CONFORM TO JASPER COUNTY STANDARDS AND SPECIFICATIONS WHERE APPLICABLE.
- ALL SEWER EASEMENTS DISTURBED MUST BE DRESSED AND GRASSED TO CONTROL EROSION.
- ALL OPEN SWALES MUST BE GRASSED, AND RIP-RAP MUST BE PLACED AS REQUIRED TO CONTROL EROSION. MINIMUM APRON SIZE SHALL BE AS NOTED. STONES SHALL BE PLACED AT ALL DOWNSTREAM HEADWALLS. HAND-PLACE IMMEDIATELY AFTER THE INSTALLATION OF PIPES AND DRAINAGE DITCHES.
- SILT BARRIERS TO BE PLACED AT DOWNSTREAM TOE OF ALL CUT AND FILL SLOPES.
- TOTAL DISTURBED AREA = 2.9 ACRES (±)
- ALL DITCHES & SWALES MUST BE DOUBLE SEEDED.
- A CONSTRUCTION ENTRANCE SHALL BE PROVIDED AT ALL LOCATIONS WHERE CONSTRUCTION TRAFFIC ACCESSES A PAVED ROADWAY.

SCDES STANDARD NOTES:

- 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.
- 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.
 - 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.
- ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSPECTED ONCE EVERY CALENDAR WEEK. IF PERIODIC INSPECTION OR OTHER INFORMATION INDICATES THAT A BMP HAS BEEN INAPPROPRIATELY OR INCORRECTLY INSTALLED, THE PERMITTEE MUST ADDRESS THE NECESSARY REPLACEMENT OR MODIFICATION REQUIRED TO CORRECT THE BMP WITHIN 48 HOURS OF IDENTIFICATION.
- 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 SEDIMENT BEFORE BEING PUMPED BACK INTO ANY WATERS OF THE STATE.
- 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 OFFSITE SEDIMENTATION. ALL TEMPORARY CONTROL DEVICES SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED.
- 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.
- 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.
- 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.
- 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 50-FOOT BUFFER CANT 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.
- 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.
- 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.
- 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.
- MINIMIZE SOIL COMPACTION AND, UNLESS INFEASIBLE, PRESERVE TOPSOIL.
- 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.
- MINIMIZE THE DISCHARGE OF POLLUTANTS FROM DEWATERING OF TRENCHES AND EXCAVATED AREAS. THESE DISCHARGES ARE TO BE ROUTED THROUGH APPROPRIATE BMPS (SEDIMENT BASIN, FILTER BAG, ETC.).
- 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, FORM 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.
- AFTER CONSTRUCTION ACTIVITIES BEGIN, INSPECTIONS MUST BE CONDUCTED AT A MINIMUM OF AT LEAST ONCE EVERY CALENDAR WEEK AND MUST BE CONDUCTED UNTIL FINAL STABILIZATION IS REACHED ON ALL AREAS OF THE CONSTRUCTION SITE.
- IF EXISTING BMPS NEED TO BE 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.
- 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.

DUST CONTROL: (DC)

DUST CONTROL ON DISTURBED AREAS DEFINITION:
CONTROLLING SURFACE AND AIR MOVEMENT OF DUST ON CONSTRUCTION SITES, ROADS, AND DEMOLITION SITES.

PURPOSE:
1. TO PREVENT SURFACE AND AIR MOVEMENT OF DUST FROM EXPOSED SOIL SURFACES.
2. TO REDUCE THE PRESENCE OF AIRBORN SUBSTANCES WHICH MAY BE HARMFUL OR INJURIOUS TO HUMAN HEALTH, WELFARE, OR SAFETY, OR TO ANIMALS OR PLAT LIFE.

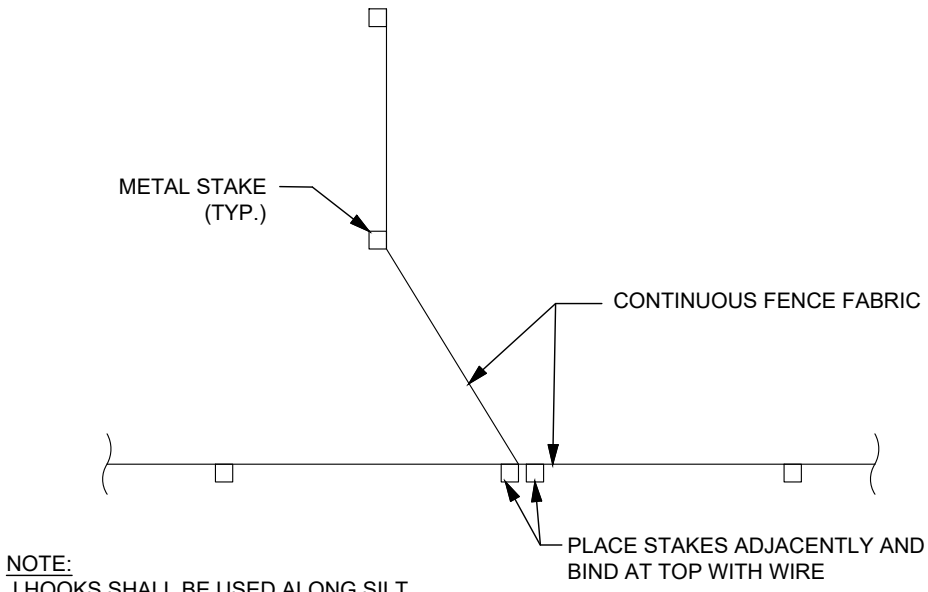
CONDITIONS:
THIS PRACTICE IS APPLICABLE TO AREAS SUBJECT TO SURFACE AND AIR MOVEMENT OF DUST WHERE ON- AND OFF-SITE DAMAGE MAY OCCUR WITHOUT TREATMENT.

TEMPORARY MEASURES:
A. MULCH
B. VEGETATIVE COVER
C. SPRAY-ON ADHESIVES
D. TILLAGE
E. IRRIGATION
F. BARRIERS
G. CALCIUM CHLORIDE

PERMANENT METHODS:
A. PERMANENT VEGETATION
B. TOPSOILING
C. STONE (CONSTRUCTION ROAD STABILIZATION)



SILT FENCE J-HOOK PLACEMENT



J-HOOK DETAIL

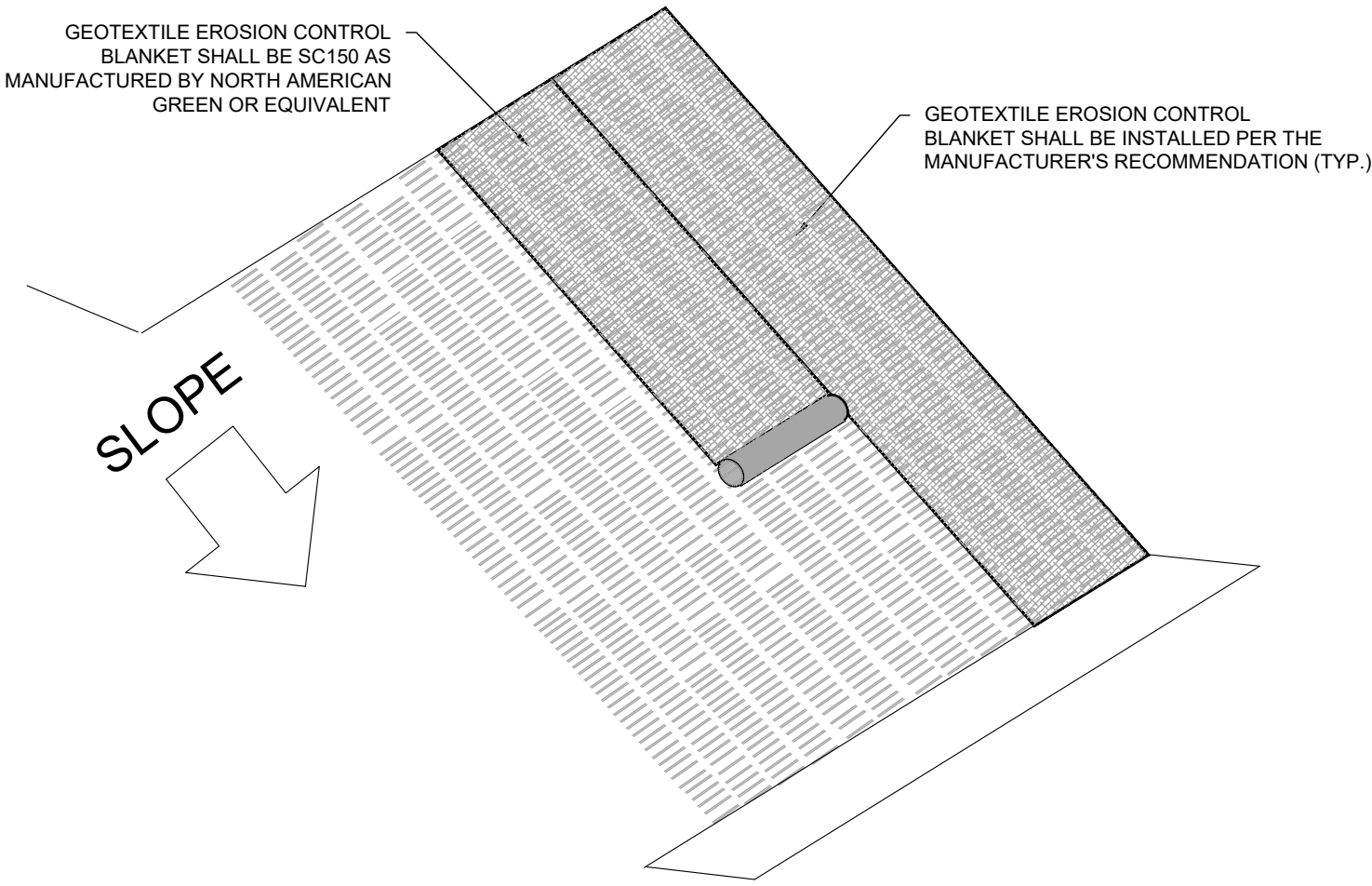
N.T.S.

PERMANENT GRASSING SPECIFICATIONS: (PG)

- ALL SEED MIXTURES FOR THE VARIOUS SEEDING SCHEDULES SHALL BE WEIGHED AND MIXED TO THE PROPER PROPORTIONS IN THE PRESENCE OF THE OWNER OR THE OWNER'S REPRESENTATIVE.
- MAT ALL GRASSED SWALES, WATERWAYS, AND EMBANKMENTS FROM TOP OF BANK TO BOTTOM OF BANK ON ALL BANK SLOPES LESS THAN 3:1.

PERMANENT SEEDING		
Maintained Turf (High Profile Lawn/Landscaped Areas)		
Planting Dates	Variety	Application Rate
April 1 - September 15	Bermuda Triangle Blend by Pennington Seed, Inc.	125 LBS/ACRE
Slopes 4H:1V or Greater		
Planting Dates	Variety	Application Rate
April 1 - September 15	Slopemaster Spring/Summer Mix Composition: 25% Hulled Sahara Bermudagrass 25% Unhulled Sahara Bermudagrass 25% Pensacola Bahiagrass 10% Durana White Clover 10% Brown Top Millet 5% Weeping Lovegrass	75 LBS/ACRE
September 15 - March 31	Slopemaster Spring/Summer Mix by Pennington Seeding, Inc.	100 LBS/ACRE
Slopes 4H:1V or Less		
Planting Dates	Variety	Application Rate
April 1 - September 15	Slopemaster Fall/Winter Mix Composition: 25% Unhulled Sericea Lespedeza 20% Unhulled Sahara Bermudagrass 20% Greystone Tall Fescue 10% Durana White Clover 10% Rye Grain 5% Weeping Lovegrass	75 LBS/ACRE
September 15 - March 31	Slopemaster Fall/Winter Mix by Pennington Seed, Inc.	100 LBS/ACRE

**Contact - Pennington Seed, Inc. - 1236 Eden Street, Columbia, SC 29201



DEFINITION:
A PROTECTIVE COVERING (BLANKET) OR SOIL STABILIZATION MAT USED TO ESTABLISH EXIT VEGETATION ON STEEP SLOPES, CHANNELS, OR SHORELINES.

PURPOSE:
TO PROVIDE A MICROCLIMATE WHICH PROTECTS YOUNG VEGETATION AND PROMOTES ITS ESTABLISHMENT. TO REINFORCE THE TURF TO RESIST FORCES OF EROSION DURING STORM EVENTS.

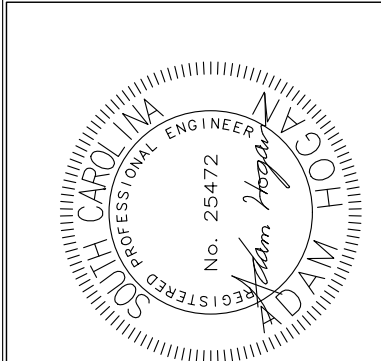
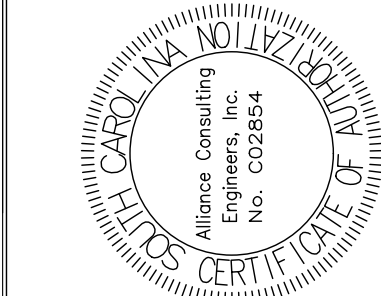
CONDITIONS:
MATTING AND BLANKETS CAN BE APPLIED ON STEEP SLOPES WHERE EROSION HAZARD IS HIGH AND PLANTING IS LIKELY TO BE SLOW IN PROVIDING ADEQUATE PROTECTIVE COVER. CONCENTRATED FLOW AREAS, ALL SLOPES STEEPER THAN 2.5:1 AND WITH A HEIGHT OF TEN FEET OR GREATER, AND CUTS AND FILLS WITHIN STREAM BUFFERS, SHALL BE STABILIZED WITH THE APPROPRIATE EROSION CONTROL MATTING OR BLANKETS. ON STREAMBANKS OR TIDAL SHORELINES WHERE MOVING WATER IS PRESENT, MATTING CAN PREVENT NEW PLANTINGS FROM BEING WASHED AWAY.

MATERIALS:
GEOTEXTILE EROSION CONTROL BLANKET SHALL BE SC150 AS MANUFACTURED BY NORTH AMERICAN GREEN OR EQUIVALENT.

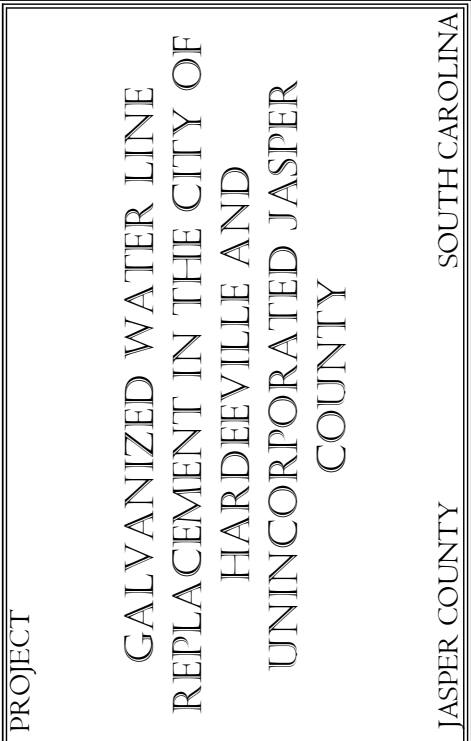
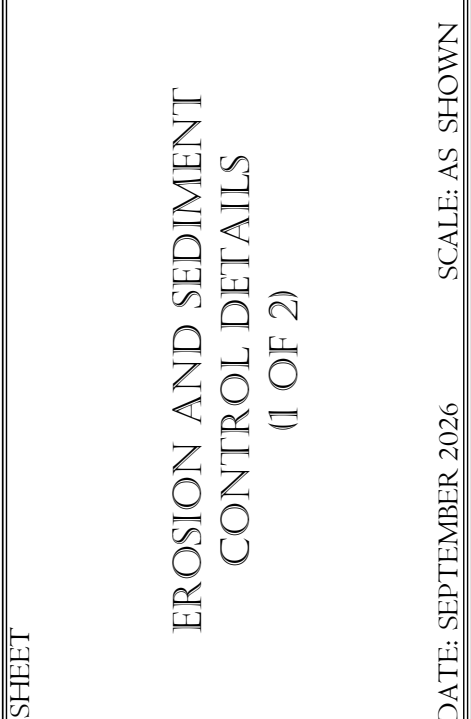
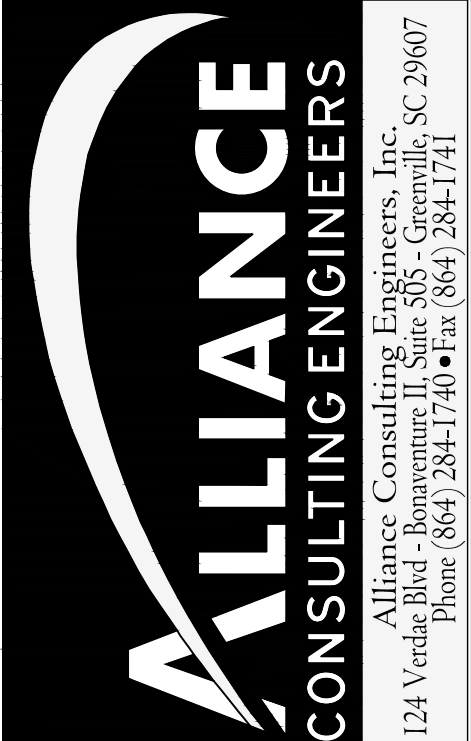
EROSION CONTROL MATTING DETAIL

N.T.S.

REVISION DATE	
DATE	REVISION DESCRIPTION
05/09/24	ISSUE FOR PERMITTING
03/26/25	ISSUE FOR CONSTRUCTION (SCDES LD)
09/11/26	ISSUE FOR BID
APPROVALS	
ENGINEER	DESIGNER
ARCH	HMW
	TECHNICIAN
	MKT
CHECKED BY	APPROVED
ARCH	ARCH



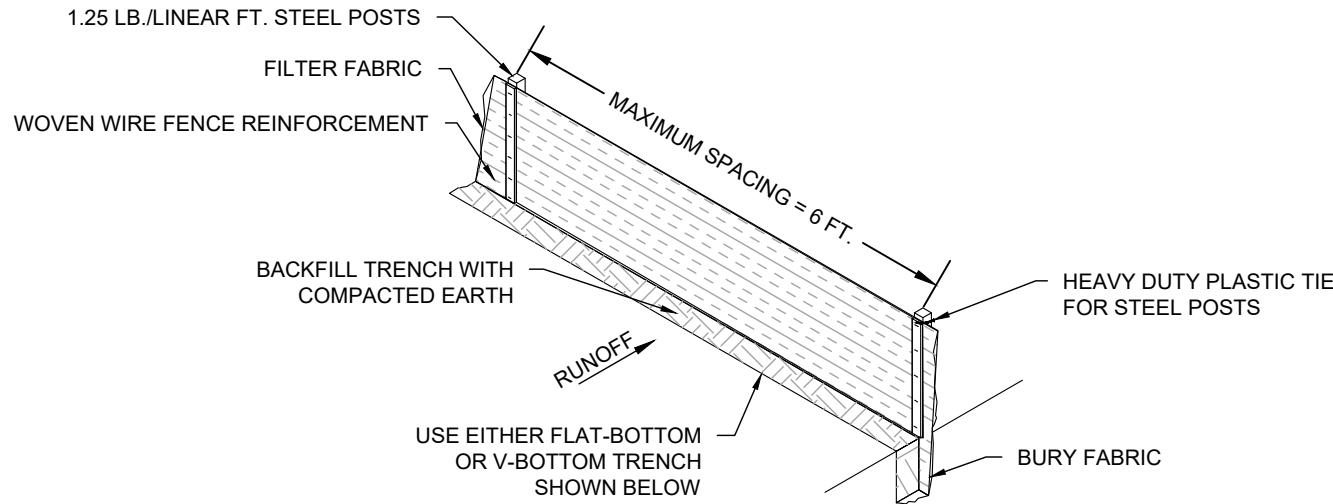
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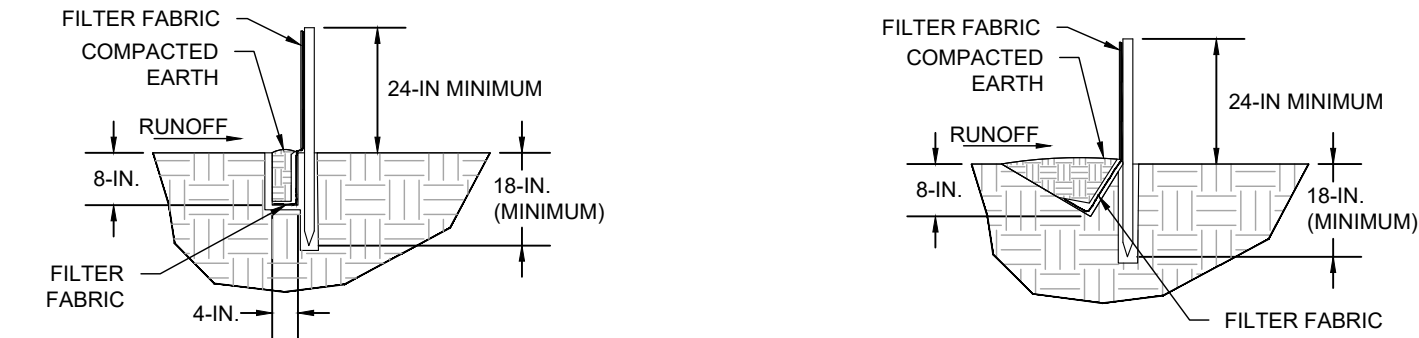
FILE NAME: 22208 - PLANS.DWG	SHEET C-11.0
REFERENCE FILE: 22208 - BASE.DWG	OF C-13.0
PROJECT NO. 22208-0027	

DWG NO. 01.1625-D28

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SILT FENCE INSTALLATION



FLAT-BOTTOM TRENCH DETAIL

V-SHAPED TRENCH DETAIL

WHEN AND WHERE TO USE IT

SILT FENCE IS APPLICABLE IN AREAS:

- WHERE THE MAXIMUM SHEET OR OVERLAND FLOW PATH LENGTH TO THE FENCE IS 100-FEET
- WHERE THE MAXIMUM SLOPE STEEPNESS (NORMAL [PERPENDICULAR] TO FENCE LINE) IS 2H:1V
- THAT DO NOT RECEIVE CONCENTRATED FLOWS GREATER THAN 0.5 CFS

DO NOT PLACE SILT FENCE ACROSS CHANNELS OR USE IT AS A VELOCITY CONTROL BMP.

MATERIALS

STEEL POSTS

USE 48-INCH LONG STEEL POSTS THAT MEET THE FOLLOWING MINIMUM PHYSICAL REQUIREMENTS:

- COMPOSED OF HIGH STRENGTH STEEL WITH MINIMUM YIELD STRENGTH OF 50,000 PSI
- HAVE A STANDARD "T" SECTION WITH A NOMINAL FACE WIDTH OF 1.38-INCHES AND NOMINAL "T" LENGTH OF 1.48-INCHES
- WEIGH 1.25 POUNDS PER FOOT ($\pm 8\%$)
- HAVE A SOIL STABILIZATION PLATE WITH A MINIMUM CROSS SECTION AREA OF 17-SQUARE INCHES ATTACHED TO THE STEEL POSTS
- PAINTED WITH A WATER BASED BAKED ENAMEL PAINT

USE STEEL POSTS WITH A MINIMUM LENGTH OF 4-FEET, WEIGHING 1.25 POUNDS PER LINEAR FOOT ($\pm 8\%$) WITH PROJECTIONS TO AID IN FASTENING THE FABRIC. EXCEPT WHEN HEAVY CLAY SOILS ARE PRESENT ON SITE, STEEL POSTS WILL HAVE A METAL SOIL STABILIZATION PLATE WELDED NEAR THE BOTTOM SUCH THAT WHEN THE POST IS DRIVEN TO THE PROPER DEPTH, THE PLATE WILL BE BELOW GROUND LEVEL FOR ADDED STABILITY.

THE SOIL PLATES SHOULD HAVE THE FOLLOWING CHARACTERISTICS:

- BE COMPOSED OF MINIMUM 15 GAUGE STEEL
- HAVE A MINIMUM CROSS SECTION AREA OF 17-SQUARE INCHES

GEOTEXTILE FILTER FABRIC

FILTER FABRIC IS:

- COMPOSED OF FIBERS CONSISTING OF LONG CHAIN SYNTHETIC POLYMERS COMPOSED OF AT LEAST 85% BY WEIGHT OF POLYOLEFINS, POLYESTERS, OR POLYAMIDES
- FORMED INTO A NETWORK SUCH THAT THE FILAMENTS OR YARNS RETAIN DIMENSIONAL STABILITY RELATIVE TO EACH OTHER
- FREE OF ANY TREATMENT OR COATING WHICH MIGHT ADVERSELY ALTER ITS PHYSICAL PROPERTIES AFTER INSTALLATION
- FREE OF DEFECTS OR FLAWS THAT SIGNIFICANTLY AFFECT ITS PHYSICAL AND/OR FILTERING PROPERTIES
- CUT TO A MINIMUM WIDTH OF 36 INCHES

USE ONLY FABRIC APPEARING ON SCDOT APPROVAL SHEET #34 MEETING THE REQUIREMENTS OF THE MOST CURRENT EDITION OF THE SCDOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.

INSTALLATION

EXCAVATE A TRENCH APPROXIMATELY 6-INCHES WIDE AND 6-INCHES DEEP WHEN PLACING FABRIC BY HAND. PLACE 12-INCHES OF GEOTEXTILE FABRIC INTO THE 6-INCH DEEP TRENCH, EXTENDING THE REMAINING 6-INCHES TOWARDS THE UPSLOPE SIDE OF THE TRENCH. BACKFILL THE TRENCH WITH SOIL OR GRAVEL AND COMPACT. BURY 12-INCHES OF FABRIC INTO THE GROUND WHEN PNEUMATICALLY INSTALLING SILT FENCE WITH A SLICING METHOD. PURCHASE FABRIC IN CONTINUOUS ROLLS AND CUT TO THE LENGTH OF THE BARRIER TO AVOID JOINTS. WHEN JOINTS ARE NECESSARY, WRAP THE FABRIC TOGETHER AT A SUPPORT POST WITH BOTH ENDS FASTENED TO THE POST, WITH A 6-INCH MINIMUM OVERLAP. INSTALL POSTS TO A MINIMUM DEPTH OF 24-INCHES. INSTALL POSTS A MINIMUM OF 1- TO 2-INCHES ABOVE THE FABRIC, WITH NO MORE THAN 3-FEET OF THE POST ABOVE THE GROUND. SPACE POSTS TO MAXIMUM 6-FEET CENTERS. ATTACH FABRIC TO WOOD POSTS USING STAPLES MADE OF HEAVY-DUTY WIRE AT LEAST 1½-INCH LONG, SPACED A MAXIMUM OF 6-INCHES APART. STAPLE A 2-INCH WIDE LATHE OVER THE FILTER FABRIC TO SECURELY FASTEN IT TO THE UPSLOPE SIDE OF WOODEN POSTS. ATTACH FABRIC TO THE STEEL POSTS USING HEAVY-DUTY PLASTIC TIES THAT ARE EVENLY SPACED AND PLACED IN A MANNER TO PREVENT SAGGING OR TEARING OF THE FABRIC. IN ALL CASES, TIES SHOULD BE AFFIXED IN NO LESS THAN 4 PLACES. INSTALL THE FABRIC A MINIMUM OF 24-INCHES ABOVE THE GROUND. WHEN NECESSARY, THE HEIGHT OF THE FENCE ABOVE GROUND MAY BE GREATER THAN 24-INCHES. IN TIDAL AREAS, EXTRA SILT FENCE HEIGHT MAY BE REQUIRED. THE POST HEIGHT WILL BE TWICE THE EXPOSED POST HEIGHT. POST SPACING WILL REMAIN THE SAME AND EXTRA HEIGHT FABRIC WILL BE 4-, 5-, OR 6-FEET TALL. LOCATE SILT FENCE CHECKS EVERY 100 FEET MAXIMUM AND AT LOW POINTS. INSTALL THE FENCE PERPENDICULAR TO THE DIRECTION OF FLOW AND PLACE THE FENCE AT THE PROPER DISTANCE FROM THE TOE OF STEEP SLOPES TO PROVIDE SEDIMENT STORAGE AND ACCESS FOR MAINTENANCE AND CLEANOUT.

INSPECTION AND MAINTENANCE

INSPECT EVERY SEVEN CALENDAR DAYS AND WITHIN 24-HOURS AFTER EACH RAINFALL EVENT THAT PRODUCES ½-INCHES 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. IF THE FENCE FABRIC TEARS, BEGINS TO DECOMPOSE, OR IN ANY WAY BECOMES INEFFECTIVE, REPLACE THE SECTION OF FENCE IMMEDIATELY. REMOVE SEDIMENT ACCUMULATED ALONG THE FENCE WHEN IT REACHES 1/3 THE HEIGHT OF THE FENCE, ESPECIALLY IF HEAVY RAINS ARE EXPECTED.

REMOVE TRAPPED SEDIMENT FROM THE SITE OR STABILIZE IT ON SITE.

REMOVE SILT FENCE WITHIN 30 DAYS AFTER FINAL STABILIZATION IS ACHIEVED OR AFTER TEMPORARY BEST MANAGEMENT PRACTICES (BMPs) ARE NO LONGER NEEDED.

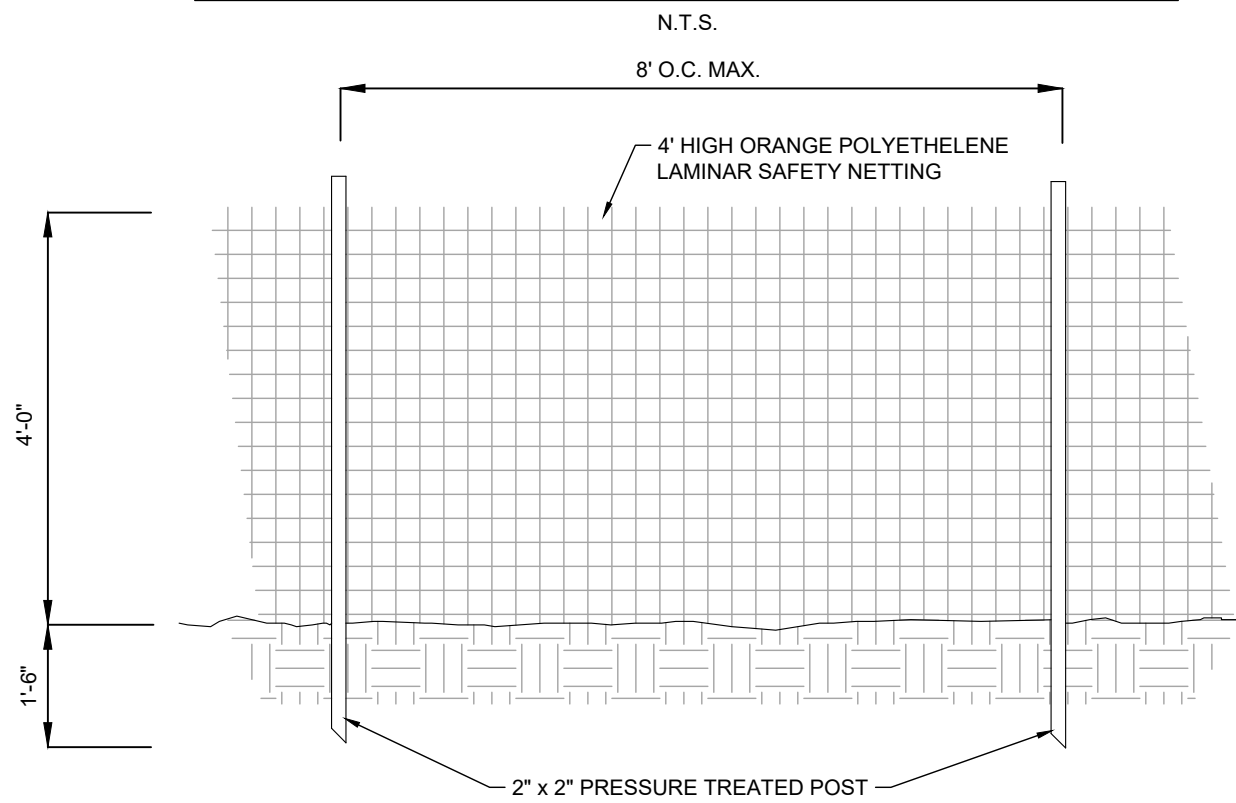
PERMANENTLY STABILIZE DISTURBED AREAS RESULTING FROM FENCE REMOVAL.

SILT FENCE DETAIL

(SCDES DETAIL SC-03)

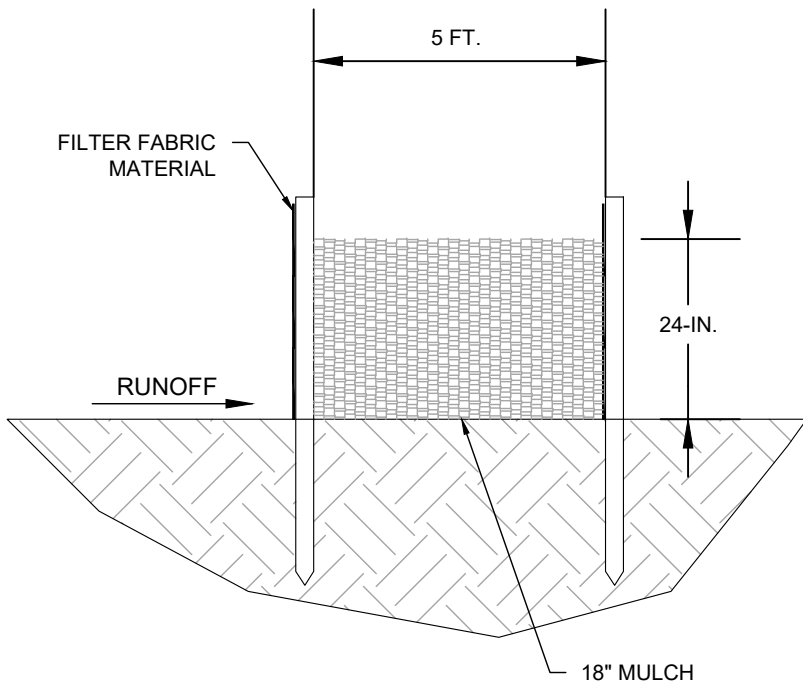
N.T.S.

EROSION CONTROL MATTING DETAIL



TREE PROTECTION FENCE DETAIL

N.T.S.



DOUBLE ROW SILT FENCE DETAIL

N.T.S.

DESCRIPTION:

SEDIMENT TUBES ARE ELONGATED TUBES OF COMPACTED GEOTEXTILES, CURLED EXCELSIOR WOOD, NATURAL COCONUT FIBER, OR HARDWOOD MULCH. STRAW, PINE NEEDLES, AND LEAF MULCH-FILLED SEDIMENT TUBES ARE NOT PERMITTED UNDER THIS SPECIFICATION.

WHEN AND WHERE TO USE IT:

INSTALL SEDIMENT TUBES ALONG CONTOURS, IN DRAINAGE CONVEYANCE SWALES, AND AROUND INLETS TO HELP REDUCE THE EFFECTS OF SOIL EROSION BY ENERGY DISSIPATION.

MATERIALS:

SEDIMENT TUBES FOR DITCH CHECKS AND TYPE A INLET STRUCTURE FILTERS EXHIBIT THE FOLLOWING PROPERTIES:

- PRODUCED BY A MANUFACTURER EXPERIENCED IN SEDIMENT TUBE MANUFACTURING
- COMPOSED OF COMPACTED GEOTEXTILES, CURLED EXCELSIOR WOOD, NATURAL COCONUT FIBERS, HARDWOOD MULCH, OR A MIX OF THESE MATERIALS ENCLOSED BY A FLEXIBLE NETTING MATERIAL
- UTILIZES OUTER NETTING THAT CONSISTS OF SEAMLESS, HIGH-DENSITY POLYETHYLENE, PHOTODEGRADABLE MATERIALS TREATED WITH ULTRAVIOLET STABILIZERS OR SEAMLESS, HIGH-DENSITY POLYETHYLENE, NON-DEGRADABLE MATERIALS
- DIAMETER RANGING FROM 18-INCHES TO 24-INCHES
- CURLED EXCELSIOR WOOD OR NATURAL COCONUT ROLLED EROSION CONTROL PRODUCTS (RECPs) THAT ARE ROLLED UP TO CREATE A SEDIMENT TUBE ARE NOT ALLOWED UNDER THIS SPECIFICATION.**
- STRAW, STRAW FIBER, STRAW BALES, PINE NEEDLES, AND LEAF MULCH ARE NOT ALLOWED UNDER THIS SPECIFICATION.**

INSPECTION AND MAINTENANCE:

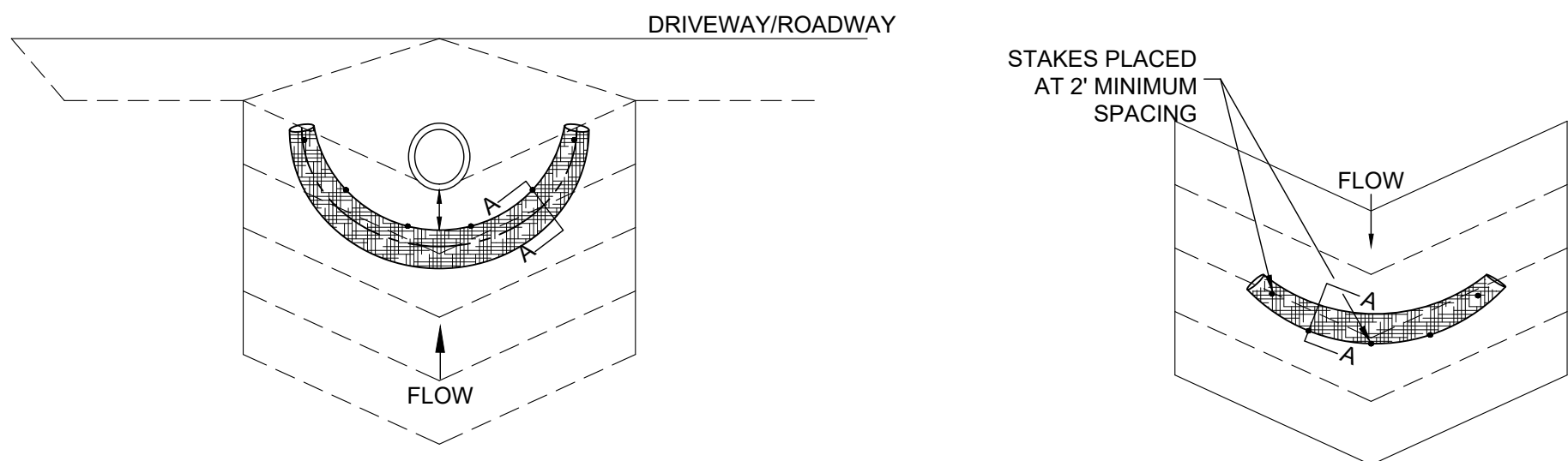
- CHECK DAMS SHOULD BE INSPECTED EVERY 7 CALENDAR DAYS AND WITHIN 24-HOURS AFTER EACH STORM THAT PRODUCES ½-INCHES OR MORE OF RAIN TO ENSURE CONTINUED EFFECTIVENESS.
- LARGE DEBRIS, TRASH, AND LEAVES SHOULD BE REMOVED.
- IF EROSION CAUSES THE EDGES TO FALL TO A HEIGHT EQUAL TO OR BELOW THE HEIGHT OF THE CENTER, REPAIRS SHOULD BE MADE IMMEDIATELY.
- REMOVE ACCUMULATED SEDIMENT FROM THE UPSTREAM SIDE OF THE SEDIMENT TUBE WHEN THE SEDIMENT HAS REACHED A HEIGHT OF APPROXIMATELY ONE-THIRD OF THE EXPOSED HEIGHT OF THE TUBE (MEASURED AT THE CENTER).
- ACCUMULATED SEDIMENT SHOULD BE REMOVED PRIOR TO REMOVING SEDIMENT TUBES.
- SEDIMENT TUBE REMOVAL SHOULD BE COMPLETED ONLY AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN COMPLETELY STABILIZED. PERMANENT VEGETATION SHOULD REPLACE AREAS FROM WHICH GRAVEL, STONE, SEDIMENT TUBES, OR OTHER MATERIALS HAVE BEEN REMOVED.

INSTALLATION:

- INSTALL OVER BARE SOIL, MULCHED AREAS, OR EROSION CONTROL BLANKETS.
- THE MINIMUM DIAMETER SHALL BE 18 INCHES.
- SEDIMENT TUBES SHOULD BE STAKED USING WOODEN STAKES (2-INCH x 2-INCH) OR STEEL POSTS (STANDARD "U" OR "T" SECTIONS WITH A MINIMUM WEIGHT OF 1.25 POUNDS PER FOOT), A MINIMUM OF 48-INCHES IN LENGTH, PLACED ON 2-FOOT CENTERS.
- STAKES SHOULD BE INTERTWINED WITH THE OUTER MESH ON THE DOWNSTREAM SIDE AND DRIVEN IN THE GROUND TO A MINIMUM DEPTH OF 1.5 FEET, LEAVING LESS THAN 1 FOOT OF STAKE EXPOSED ABOVE THE SEDIMENT TUBE. ALWAYS REFER TO THE MANUFACTURER'S RECOMMENDATIONS FOR THE STAKING DETAIL.
- INSTALL ALL SEDIMENT TUBES INSURING THAT NO GAPS EXIST BETWEEN THE SOIL AND THE BOTTOM OF THE SEDIMENT TUBE. THE ENDS OF ADJACENT SEDIMENT TUBES SHOULD BE OVERLAPPED 6-INCH TO PREVENT FLOW AND SEDIMENT FROM PASSING THROUGH THE FIELD JOINT. IN NO SITUATIONS SHOULD SEDIMENT TUBES BE STACKED ON TOP OF ONE ANOTHER.
- CONSTRUCT A TRENCH THAT IS A MINIMUM 20% OF THE TUBE DIAMETER TO INSTALL THE TUBE IN. THIS IS TO ENSURE NO GAPS AT THE BOTTOM.
- AVOID DAMAGE TO SEDIMENT TUBES WHILE INSTALLING THEM. IF THE SEDIMENT TUBE BECOMES DAMAGED DURING INSTALLATION, A STAKE SHOULD BE PLACED ON BOTH SIDES OF THE DAMAGED AREA TERMINATING THE TUBE SEGMENT AND A NEW TUBE SEGMENT SHOULD BE INSTALLED.
- SEDIMENT TUBES SHOULD BE INSTALLED IN SWALES OR DRAINAGE DITCHES PERPENDICULAR TO THE FLOW OF WATER
- SEDIMENT TUBES SHOULD CONTINUE UP THE SIDE SLOPES A MINIMUM OF 1-FOOT ABOVE THE DESIGN FLOW DEPTH. SEDIMENT TUBE SHALL BE INSTALLED TO ALLOW FLOW OF WATER OVER THE MIDDLE SECTION PRIOR TO GOING AROUND THE ENDS.
- SEDIMENT TUBES SHOULD BE SPACED ACCORDING TO THE ABOVE LISTED SEDIMENT TUBE SPACING TABLE.
- SEDIMENT TUBE LENGTH SELECTED SHOULD MINIMIZE THE NUMBER OF SEDIMENT TUBES NEEDED TO SPAN THE WIDTH OF THE DRAINAGE CONVEYANCE. IF THE DITCH CHECK LENGTH (PERPENDICULAR TO THE WATER FLOW) IS 15 FEET, THEN ONE 15-FOOT SEDIMENT TUBE IS PREFERRED COMPARED TO TWO OVERLAPPING 10-FOOT SEDIMENT TUBES.
- SEDIMENT TUBES FOR DITCH CHECKS SHOULD REMAIN IN PLACE UNTIL FULLY ESTABLISHED VEGETATION AND ROOT SYSTEMS HAVE COMPLETELY DEVELOPED AND CAN SURVIVE ON THEIR OWN.

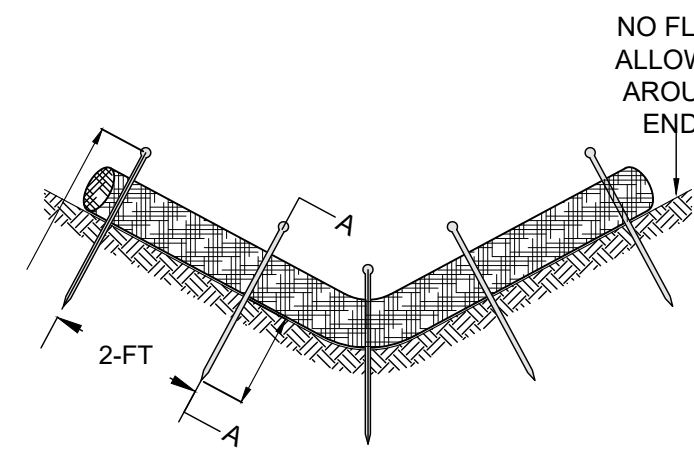
SEDIMENT TUBE DETAIL

(NOT TO SCALE)



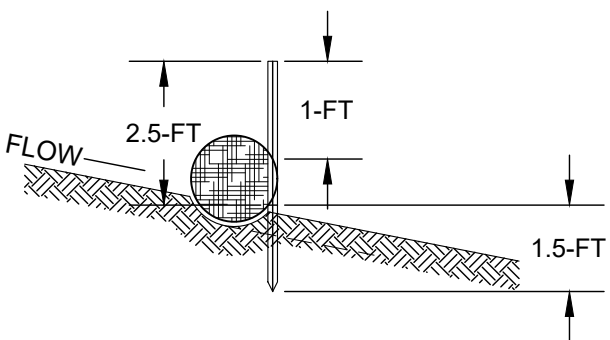
INSTALLATION AT PIPE CULVERT

TOP VIEW OF DITCH



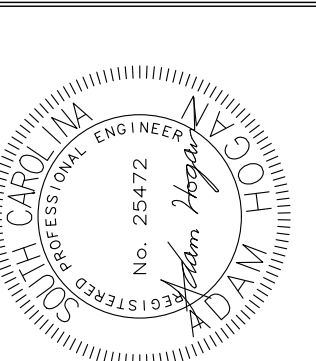
END VIEW OF DITCH

SEDIMENT TUBE SPACING	
SLOPE	MAX. SPACING
< 2%	150-FEET
2%	100-FEET
3%	75-FEET
4%	50-FEET
5%	40-FEET
6%	30-FEET
	25-FEET

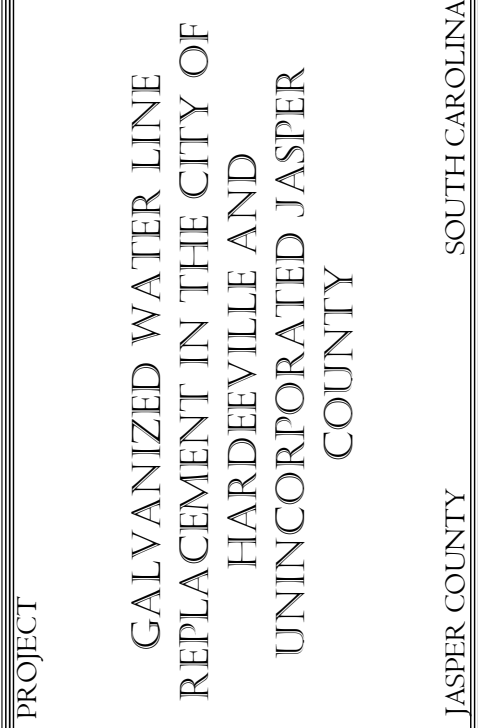
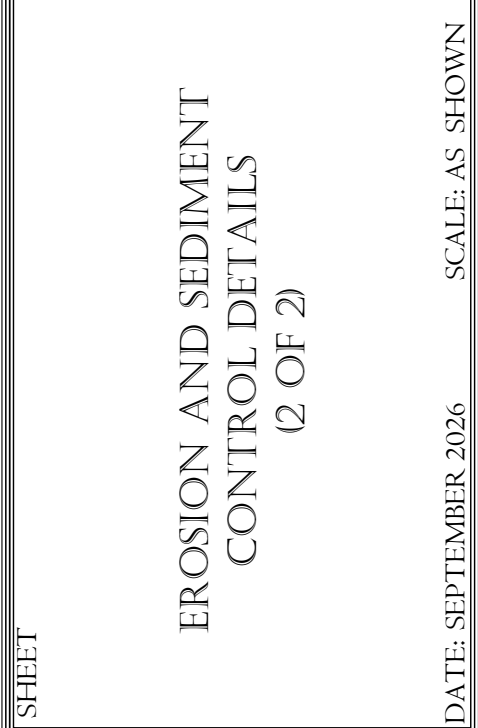
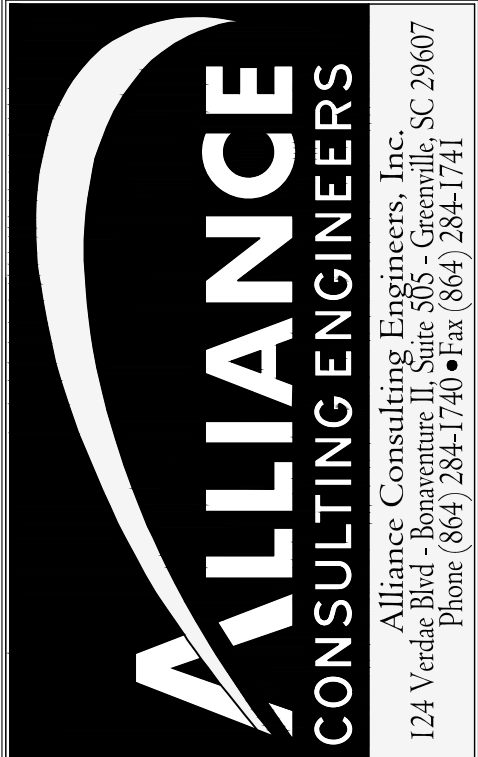


SECTION A-A

REVISION DATE	
DATE	REVISION DESCRIPTION
05/09/24	ISSUE FOR PERMITTING
03/26/25	ISSUE FOR CONSTRUCTION (SCDES LD)
09/11/26	ISSUE FOR BID
APPROVALS	
ENGINEER	ARH
DESIGNER	HMW
TECHNICIAN	MRT
CHECKED BY	ARH
APPROVED	ARH



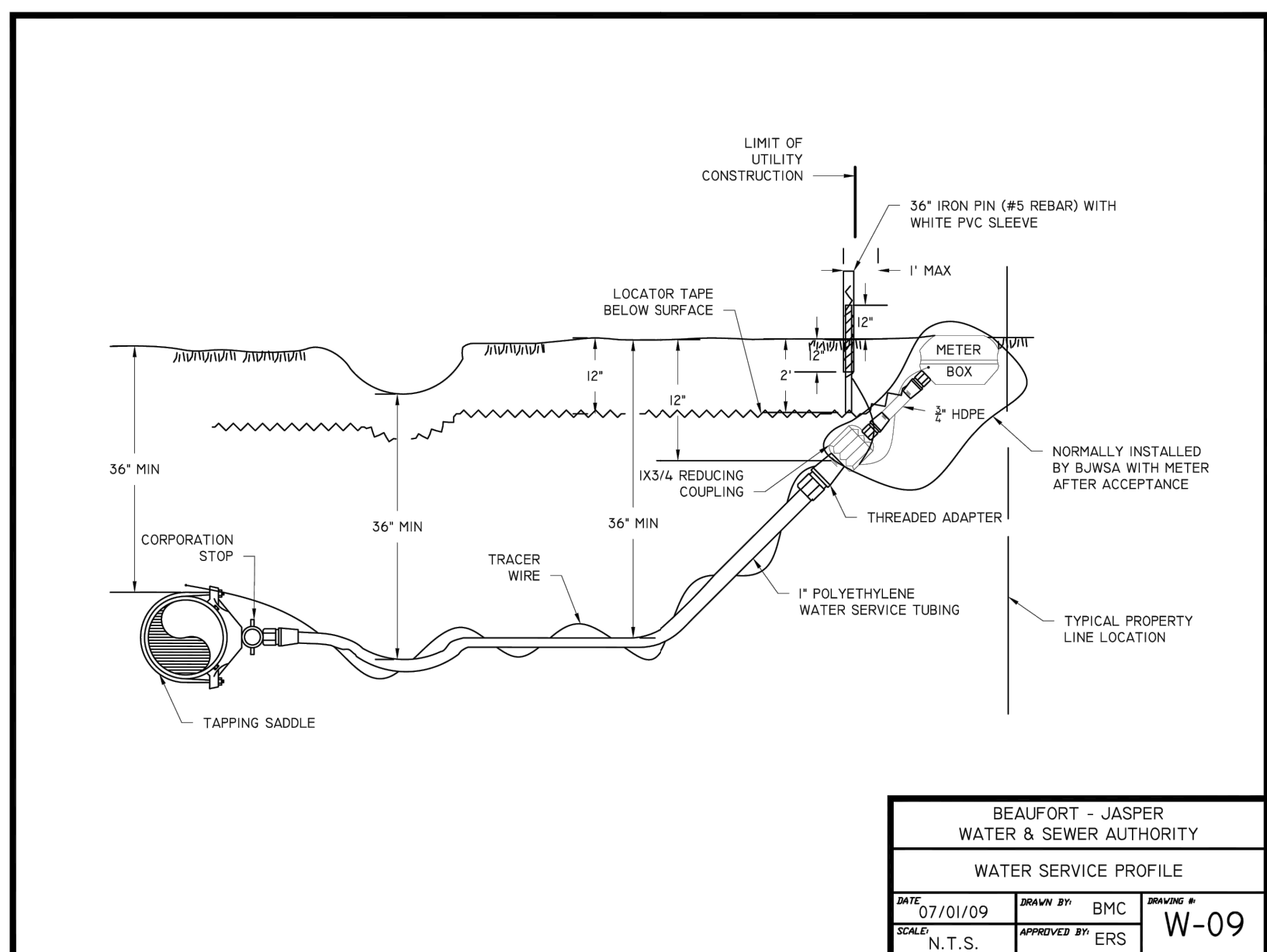
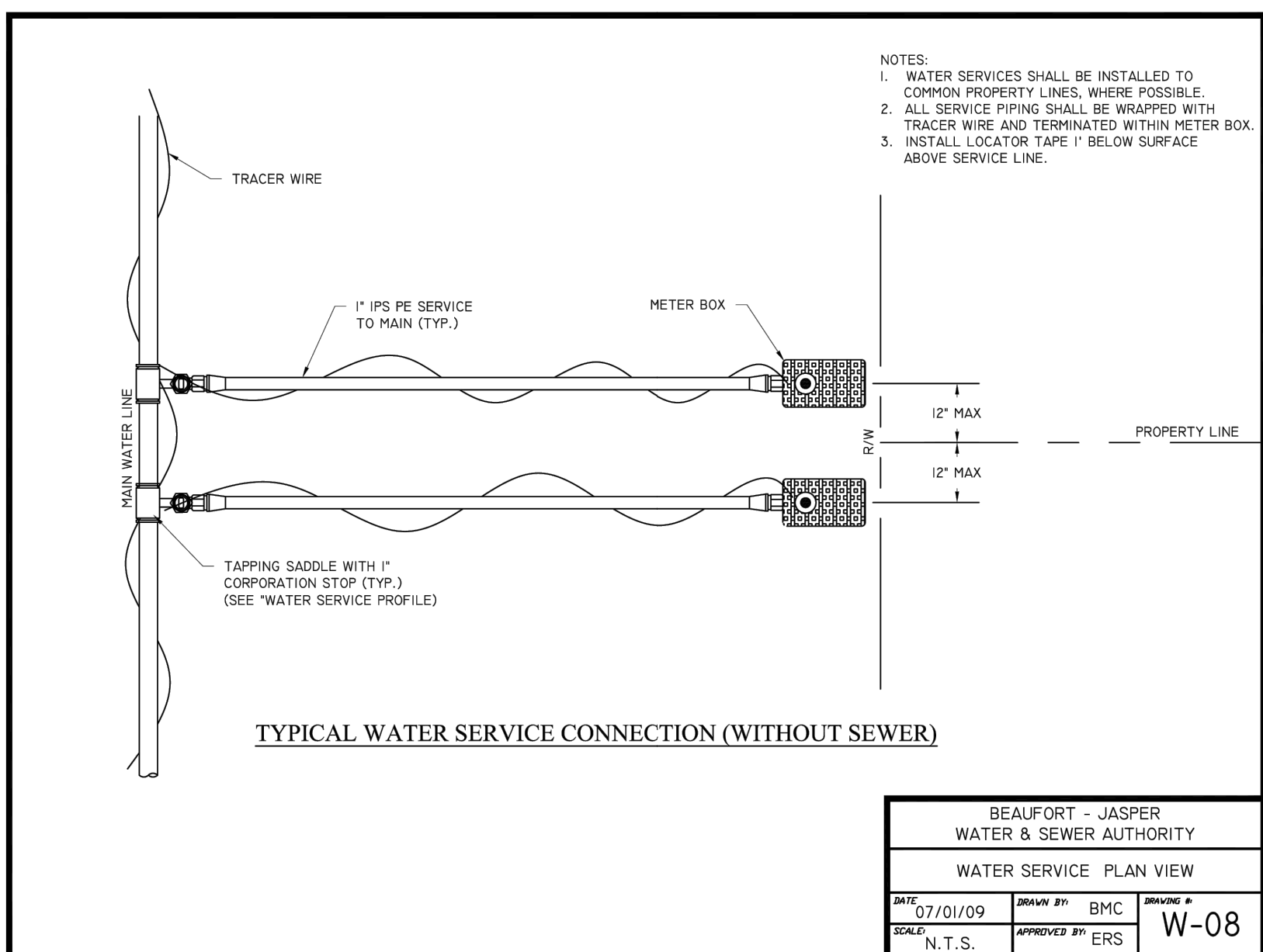
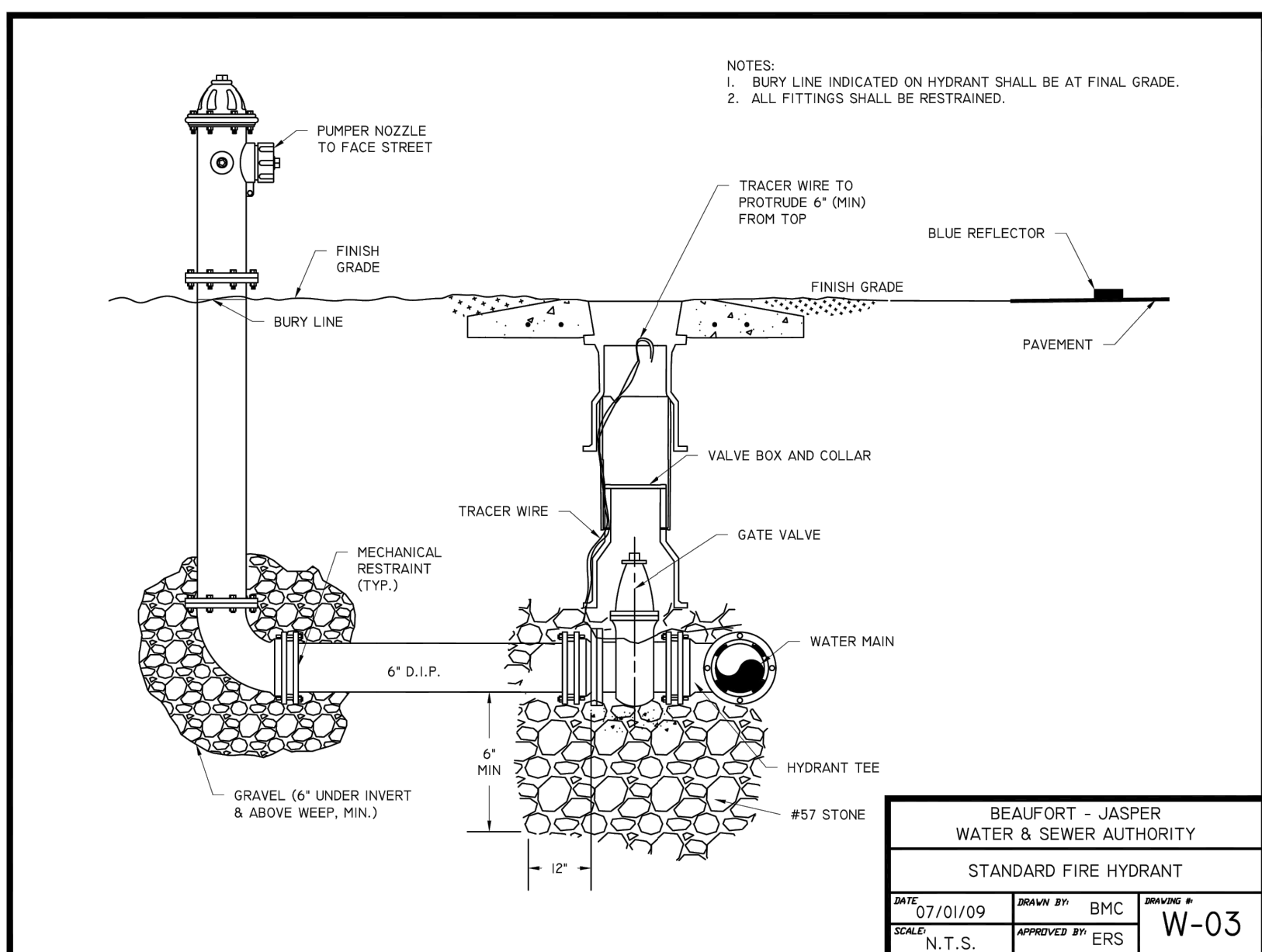
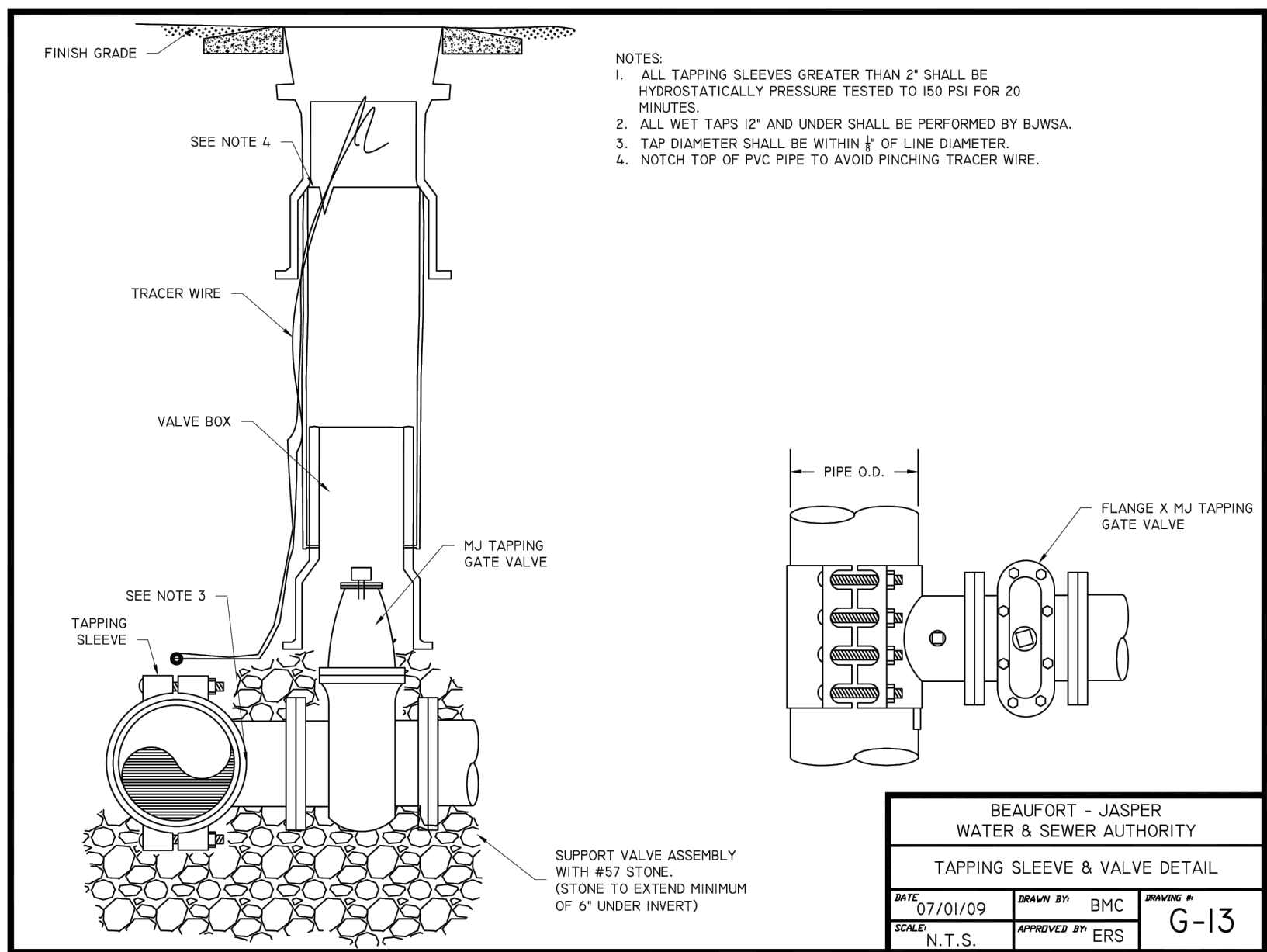
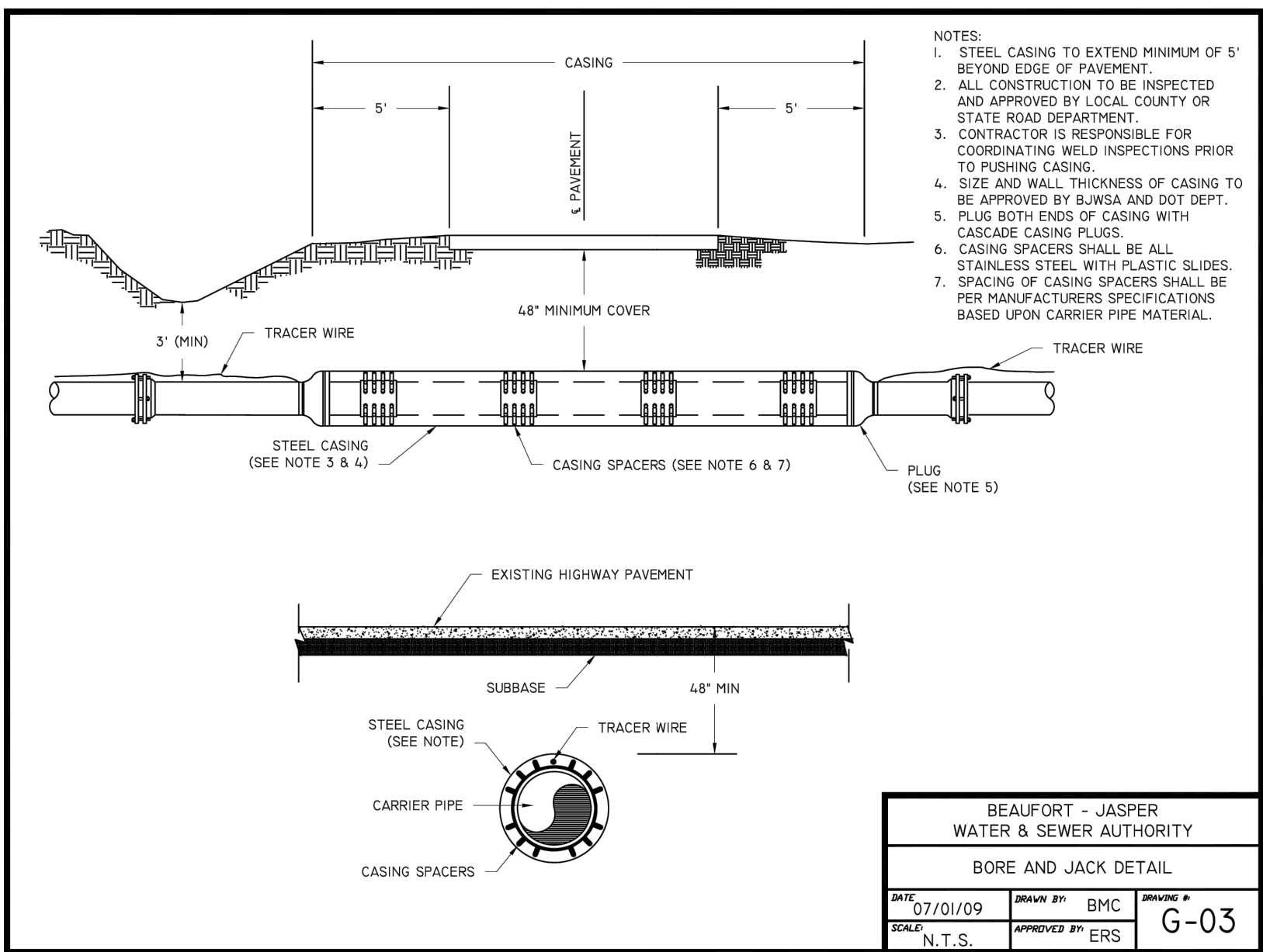
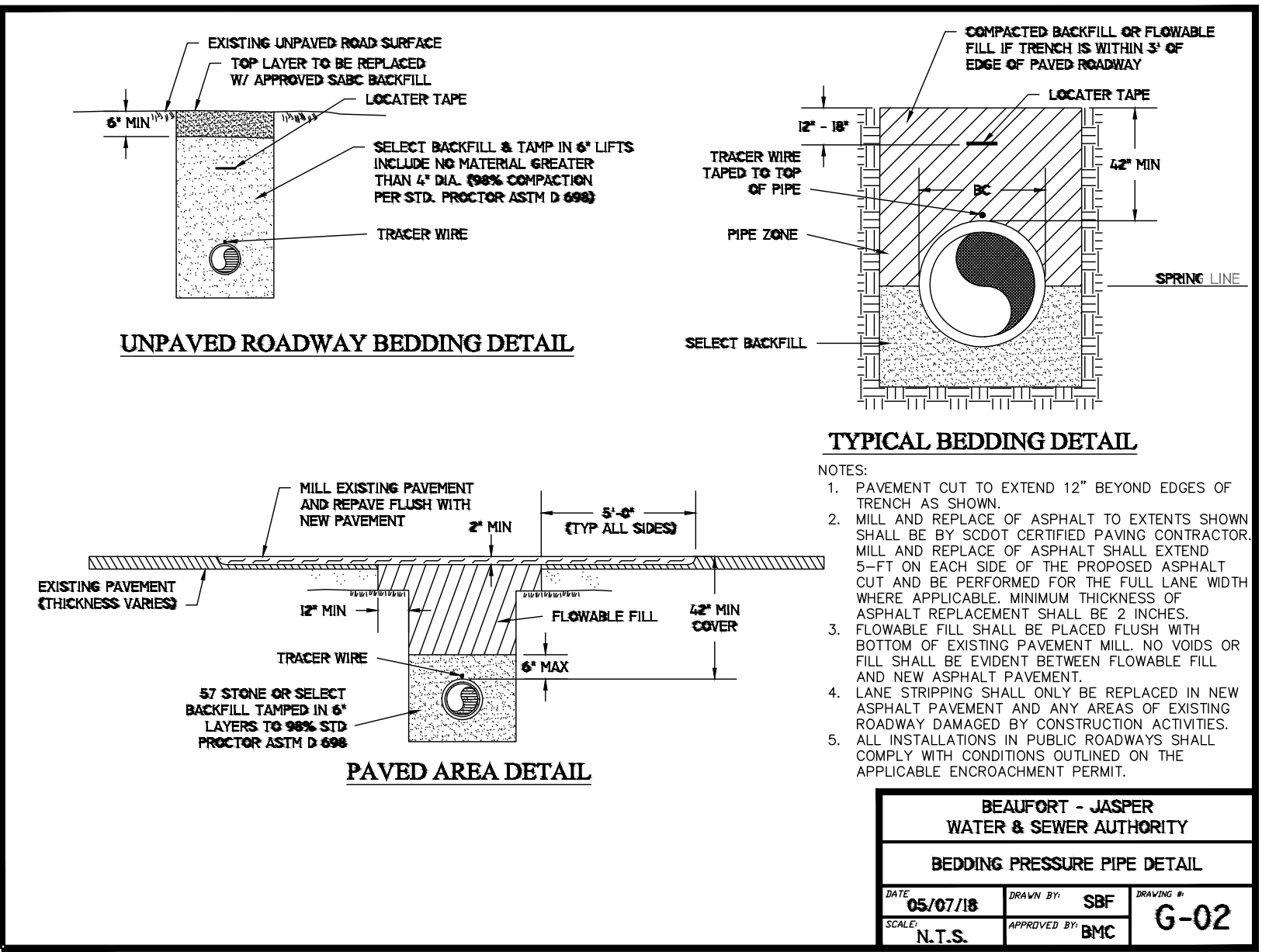
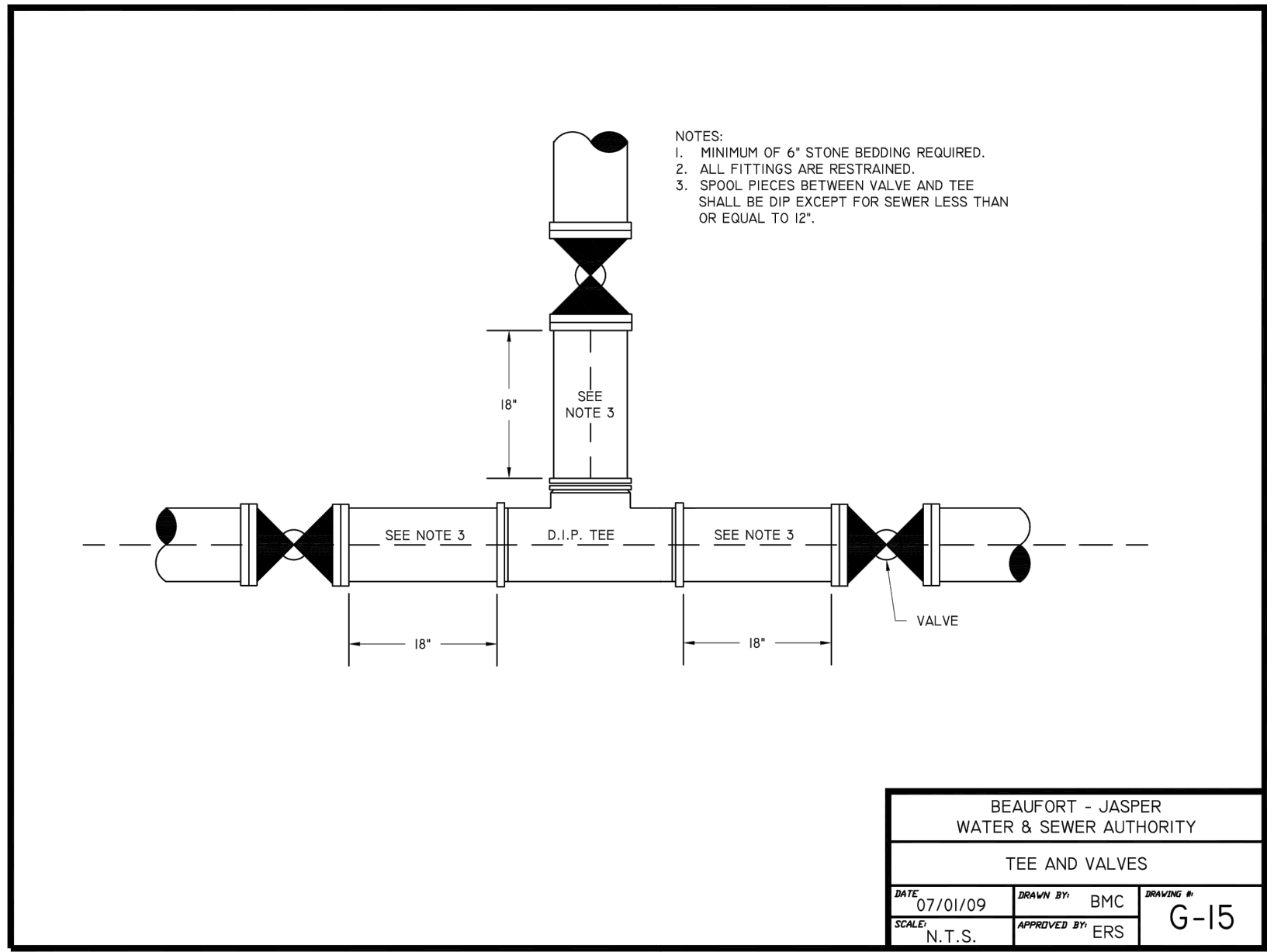
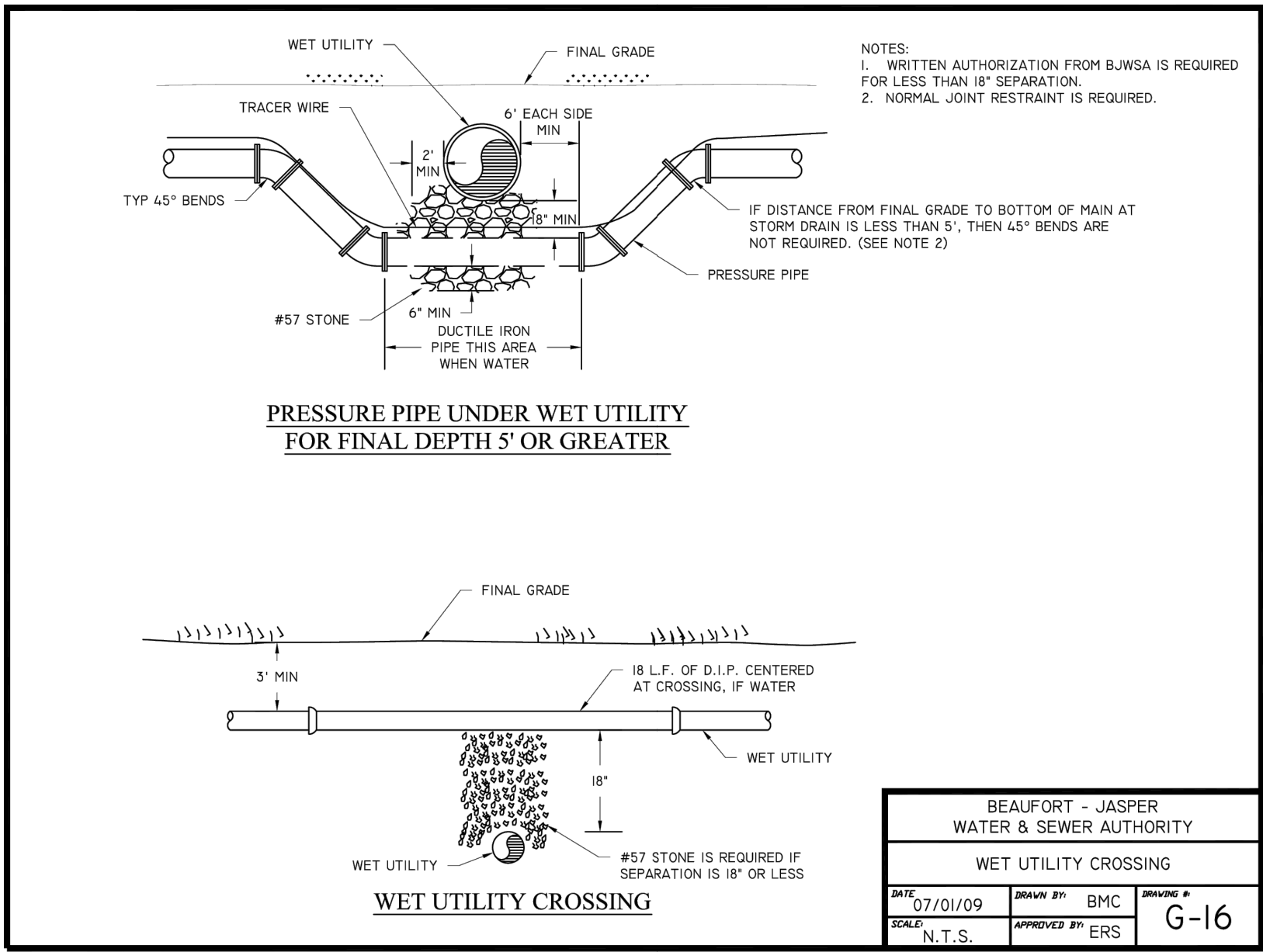
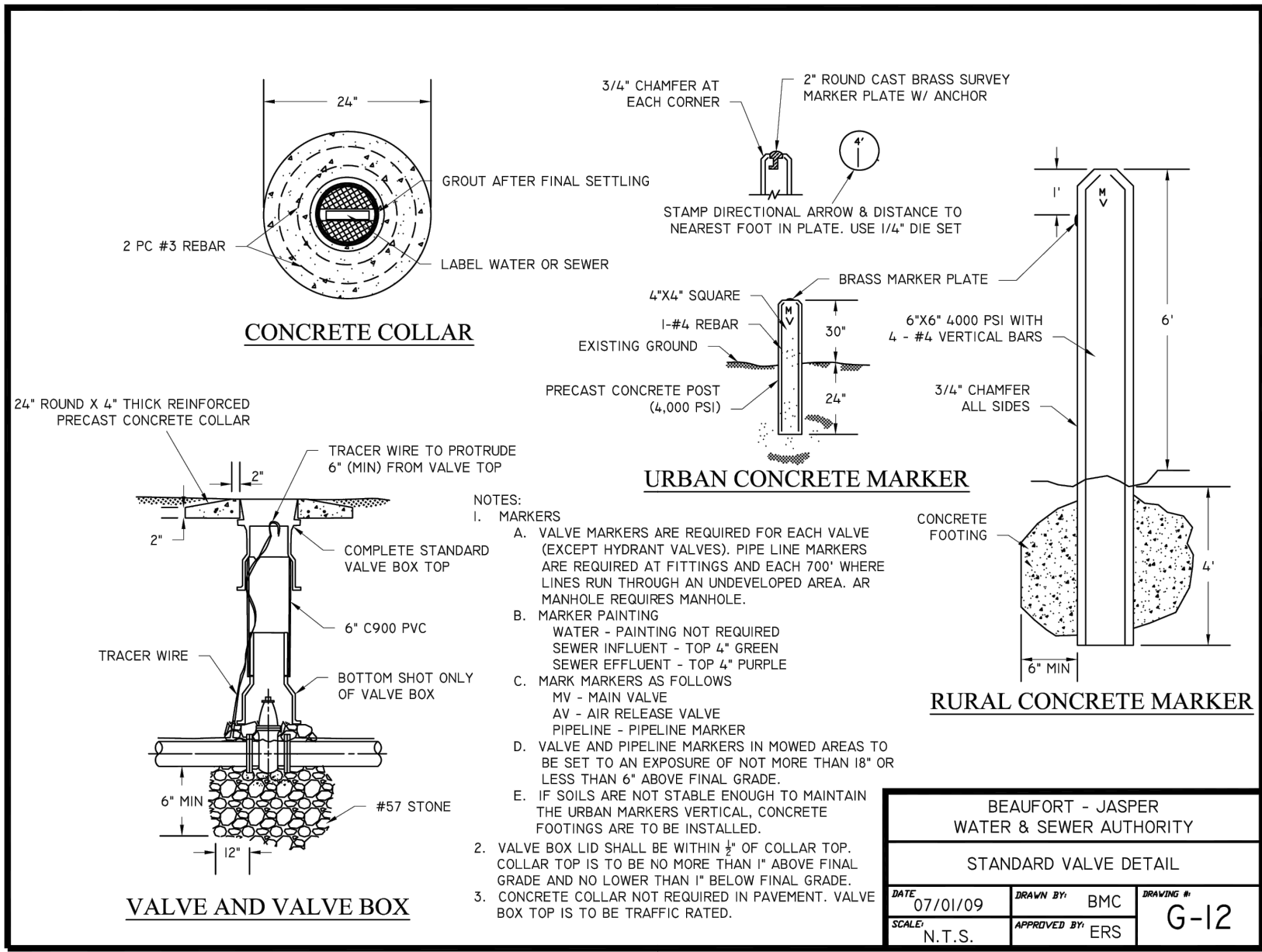
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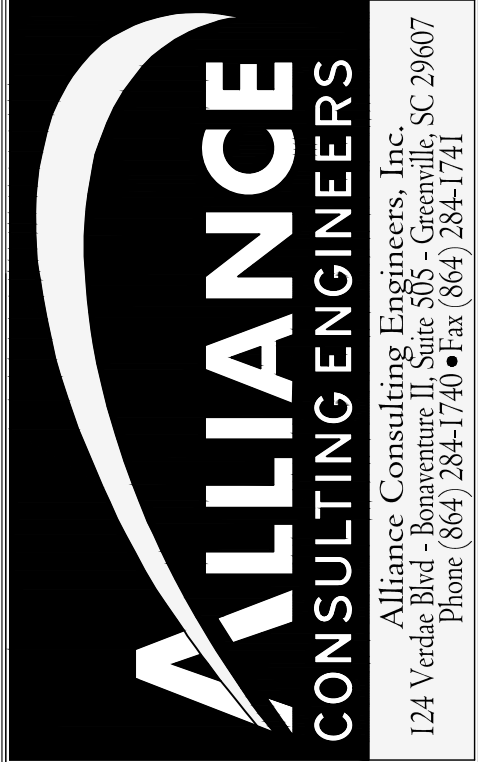
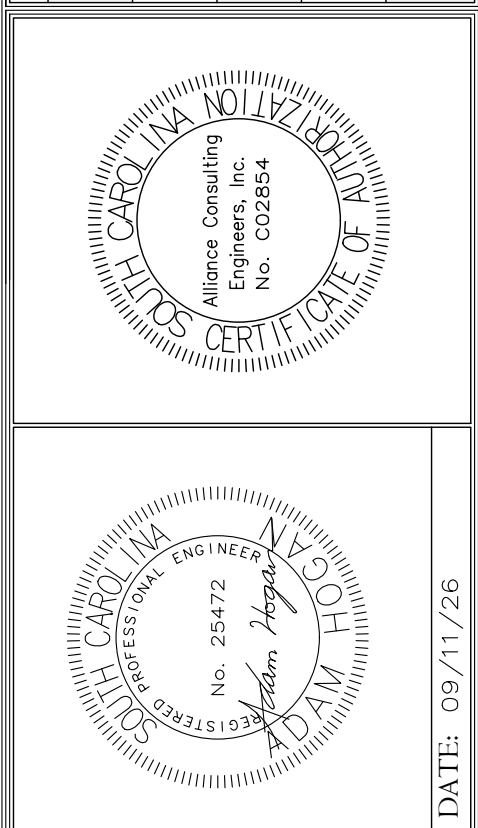
FILE NAME:	22208 - PLANS.DWG	SHEET C-11.1
REFERENCE FILE:	22208 - BASE.DWG	
PROJECT NO.	22208-0027	OF C-13.0

DWG NO. 01.1625-D28

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REVISION		DATE	DESCRIPTION
1		05/09/24	ISSUE FOR PERMITTING
2		03/26/25	ISSUE FOR CONSTRUCTION (SCDES LD)
3		09/11/26	ISSUE FOR BID
APPROVALS		ENGINEER	ARH
DESIGNER		HMW	ARH
TECHNICIAN		MRT	ARH
CHECKED BY		ARH	ARH
APPROVED		ARH	ARH



UTILITY DETAILS
(1 OF 2)

PROJECT: GALVANIZED WATER LINE REPLACEMENT IN THE CITY OF HARDEEVILLE AND UNINCORPORATED JASPER COUNTY

FILE NAME: 22208 - PLANS.DWG
REFERENCE FILE: 22208 - BASE.DWG
PROJECT NO. 22208-0027

SHEET C-12.0 OF C-13.0

DWG NO. 01.1625-D28

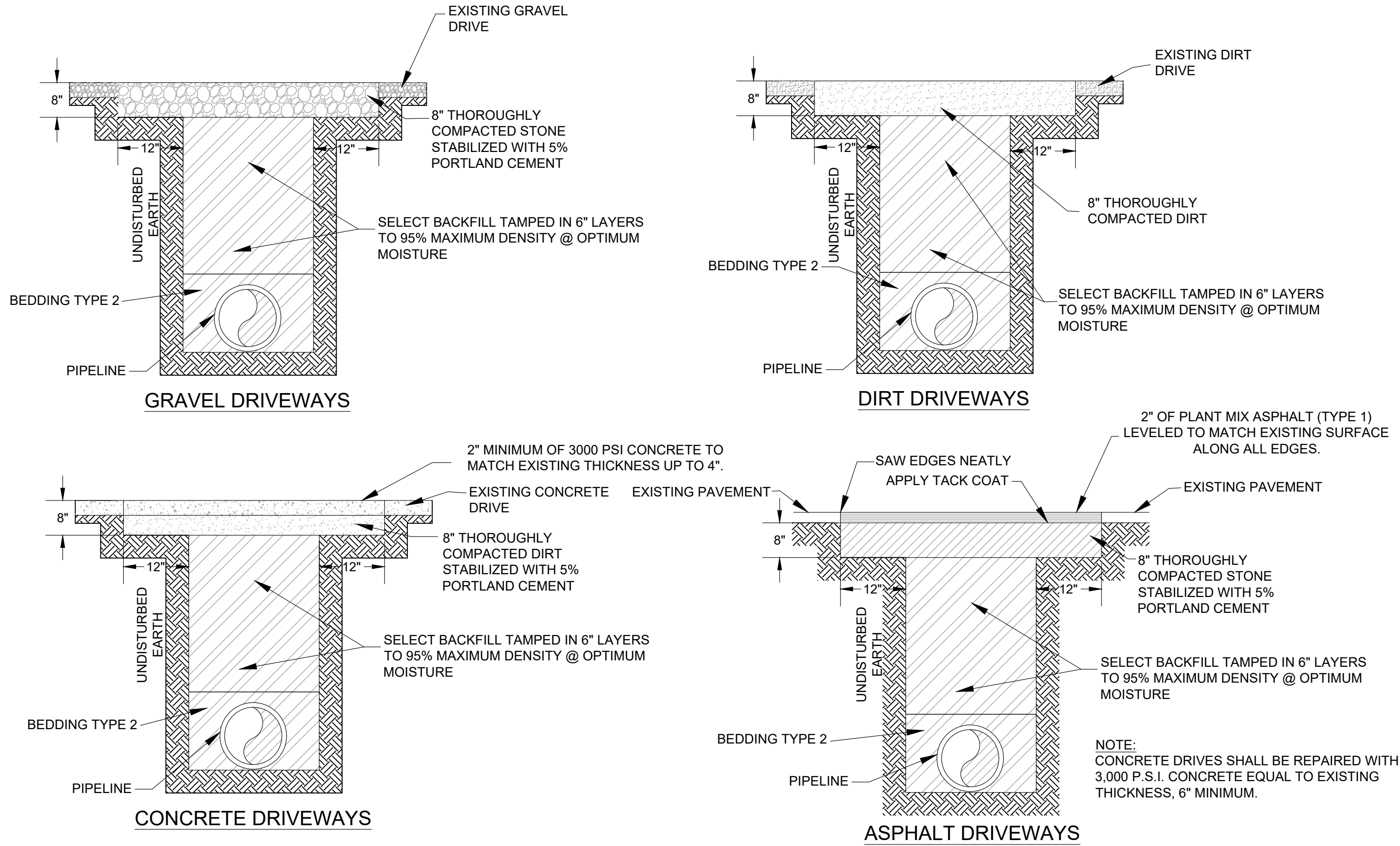
DATE: SEPTEMBER 2026

SCALE: AS SHOWN

SOUTH CAROLINA

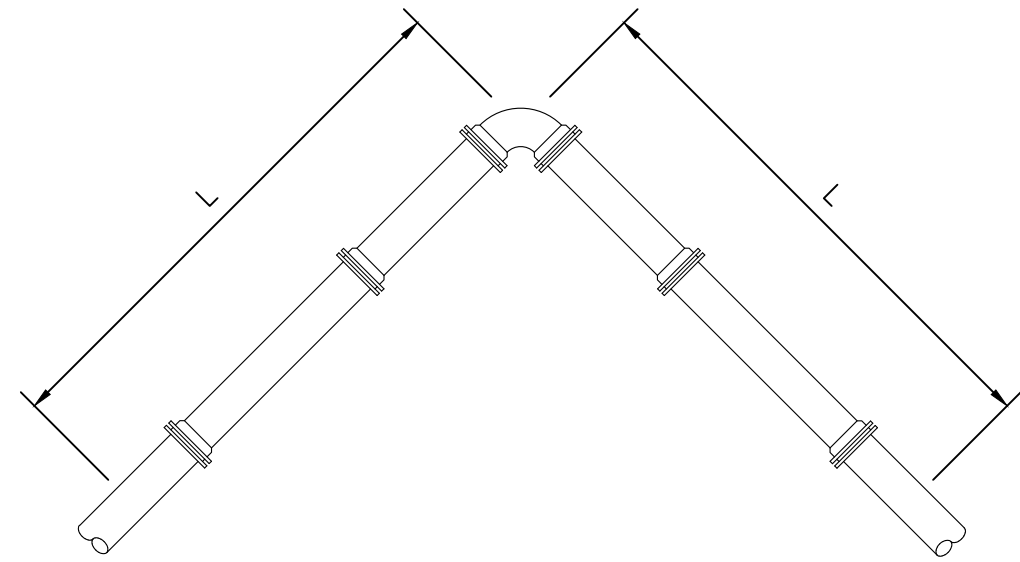
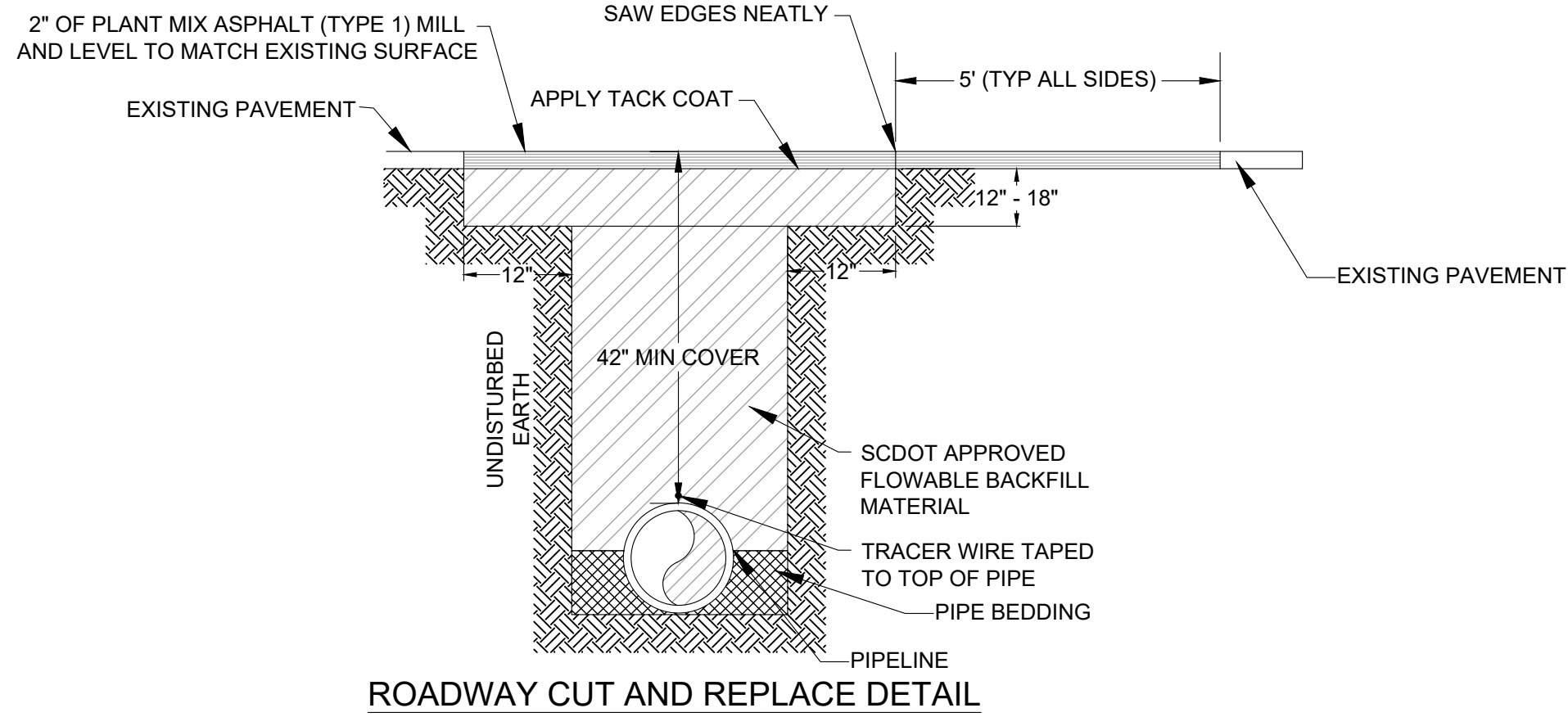
JASPER COUNTY

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DRIVEWAY CUT AND REPLACE DETAILS

NOTE:
CONTRACTOR TO UTILIZE SCDOT-APPROVED FLOWABLE FILL IF TRENCH IS WITHIN 3-FT OF EDGE OF PAVEMENT.



DUCTILE IRON LINE

PIPE DIA	BEND ANGLE			
	11.25	22.5	45	90
4	2	4	8	20
6	3	6	12	28
8	4	7	15	36
10	4	9	18	43
12	5	10	21	51
16	6	13	27	65
20	8	16	33	79
24	9	18	38	92

MINIMUM RESTRAINED LENGTH (L)

NOTES:

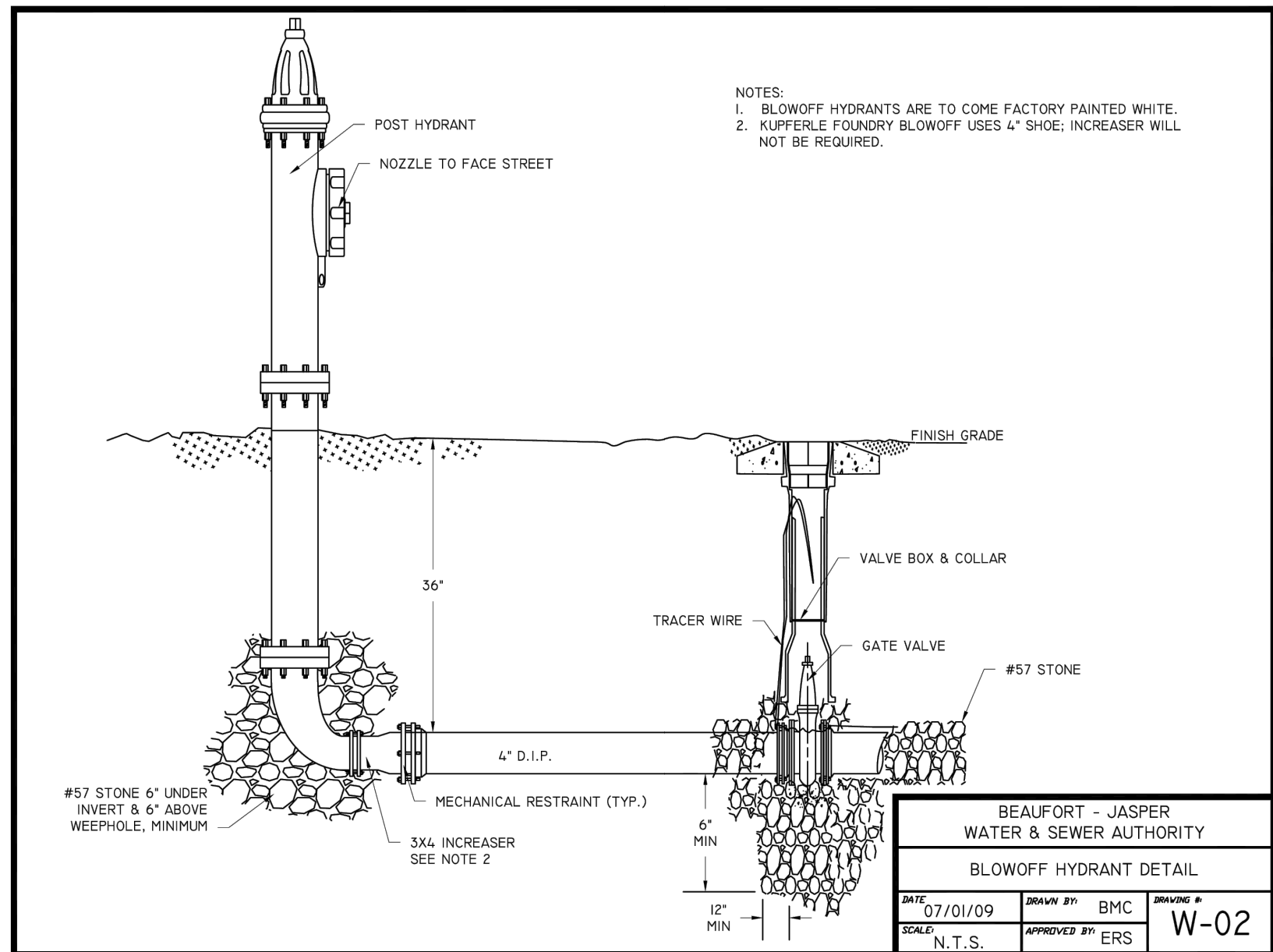
- LENGTH OF RESTRAINT SHOWN IS IN FEET.
- WHERE LINES CONSIST OF BOTH DUCTILE IRON AND PVC WITHIN THE LIMITS OF REQUIRED RESTRAINT, LIMITS FOR PVC SHALL APPLY.
- SEE NOTES IN DETAIL W-019.

W-015 HORIZONTAL BEND RESTRAINT - SCHEDULE AND DETAIL

N.T.S.

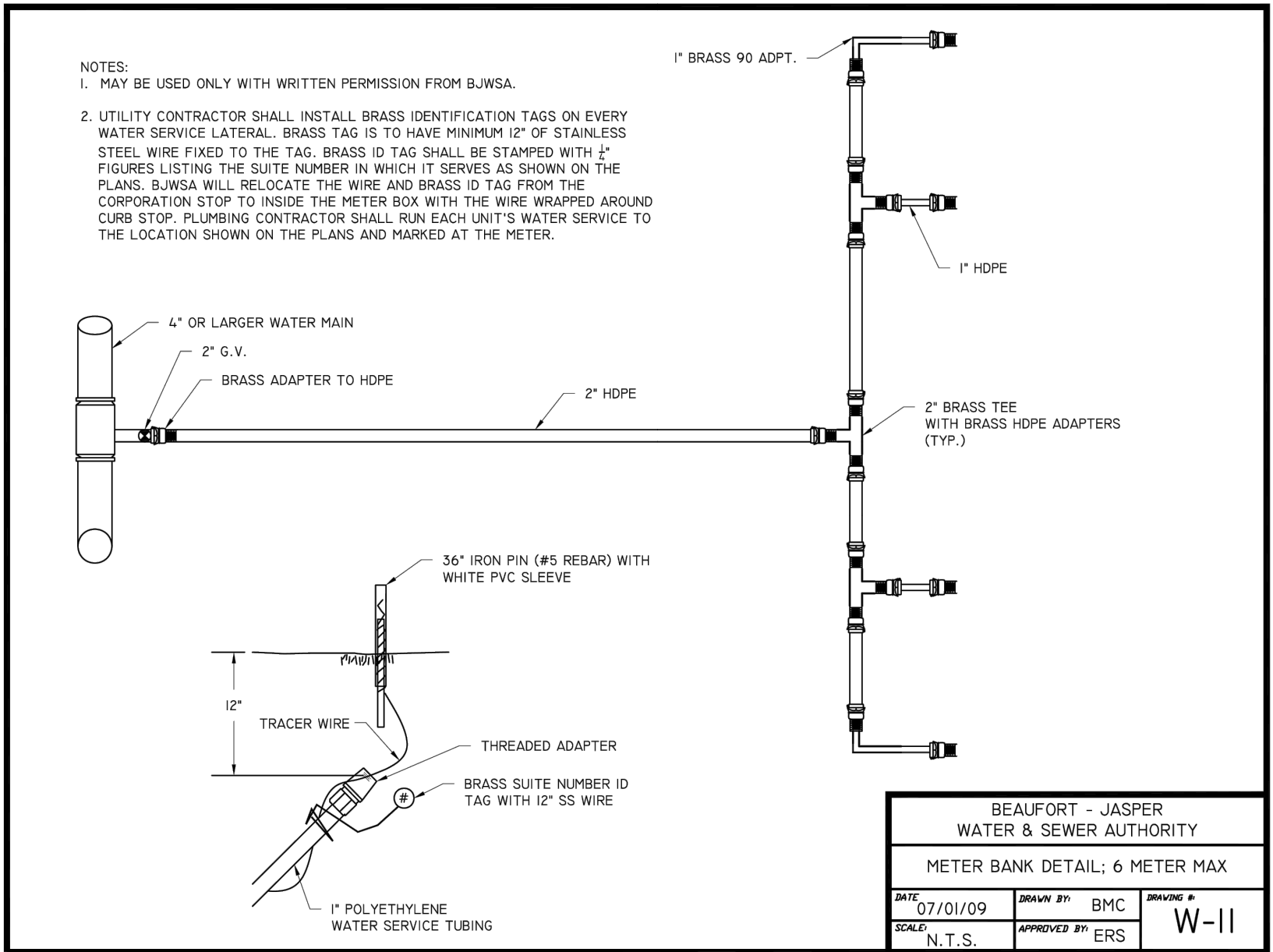
W-019 GENERAL RESTRAINT SCHEDULE DETAIL NOTES:

- CONTRACTOR TO ENSURE THAT RESTRAINED LENGTHS ARE ADEQUATE FOR FIELD CONDITIONS AND CONFORM TO MANUFACTURER SPECIFICATIONS. RESTRAINED LENGTHS PROVIDED IN DETAILS WERE CALCULATED USING EBAA MEGALUG RESTRAINT LENGTH CALCULATOR (<https://rlc.ebaa.com/calculator.php>).
- THE FOLLOWING CONDITIONS WERE USED TO CALCULATE THE RESTRAINED LENGTHS:
LAYING CONDITION IS TYPE 3;
SOIL DESIGNED AS SAND-SILT;
DEPTH IS 3-FT;
DESIGN PRESSURE (TEST) IS 150 PSI;
SAFETY FACTOR IS 1.5;
LENGTH ALONG RUN IS 0-FT.



NOTES:
1. BLOWOFF HYDRANTS ARE TO COME FACTORY PAINTED WHITE.
2. RUFFLE FOUNDRY BLOWOFF USES 4" SHOE; INCREASER WILL NOT BE REQUIRED.

BEAUFORT - JASPER
WATER & SEWER AUTHORITY
BLOWOFF HYDRANT DETAIL
DATE: 07/01/09
SCALE: N.T.S.
DRAWN BY: BMC
APPROVED BY: ERS
SHEET: W-02

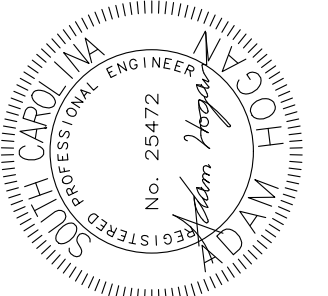
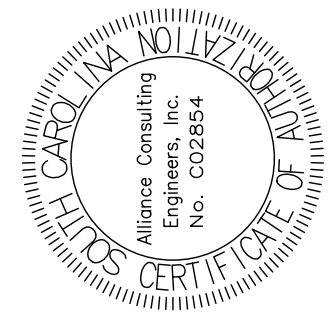


NOTES:
1. MAY BE USED ONLY WITH WRITTEN PERMISSION FROM BJWSA.
2. UTILITY CONTRACTOR SHALL INSTALL BRASS IDENTIFICATION TAGS ON EVERY WATER SERVICE LATERAL. BRASS TAG IS TO HAVE MINIMUM 1/2" OF STAINLESS STEEL. WIRE TIED TO THE TAG. BRASS ID TAG SHALL BE STAMPED WITH 4" FIGURES LISTING THE SUITE NUMBER IN WHICH IT SERVES AS SHOWN ON THE PLANS. BJWSA WILL RELOCATE THE WIRE AND BRASS ID TAG FROM THE CORPORATION STOP TO INSIDE THE METER BOX WITH THE WIRE WRAPPED AROUND CURB STOP. PLUMBING CONTRACTOR SHALL RUN EACH UNIT'S WATER SERVICE TO THE LOCATION SHOWN ON THE PLANS AND MARKED AT THE METER.

BEAUFORT - JASPER
WATER & SEWER AUTHORITY
METER BANK DETAIL: 6 METER MAX
DATE: 07/01/09
SCALE: N.T.S.
DRAWN BY: BMC
APPROVED BY: ERS
SHEET: W-11

REVISION	DATE
DATE	REVISION DESCRIPTION
05/09/24	ISSUE FOR PERMITTING
03/26/25	ISSUE FOR CONSTRUCTION (SCDES LD)
09/11/26	ISSUE FOR BID

APPROVALS	ENGINEER	DESIGNER	HMW	TECHNICIAN	MRT	CHECKED BY	APPROVED
	ARH					ARH	ARH



DATE: 09/11/26

ALLIANCE CONSULTING ENGINEERS

Alliance Consulting Engineers, Inc. SC 29607
124 Venable Blvd., Suite 100, Charleston, SC 29405
Phone: (864) 284-1740 • Fax: (864) 284-1741

UTILITY DETAILS 2 OF 2

SHEET

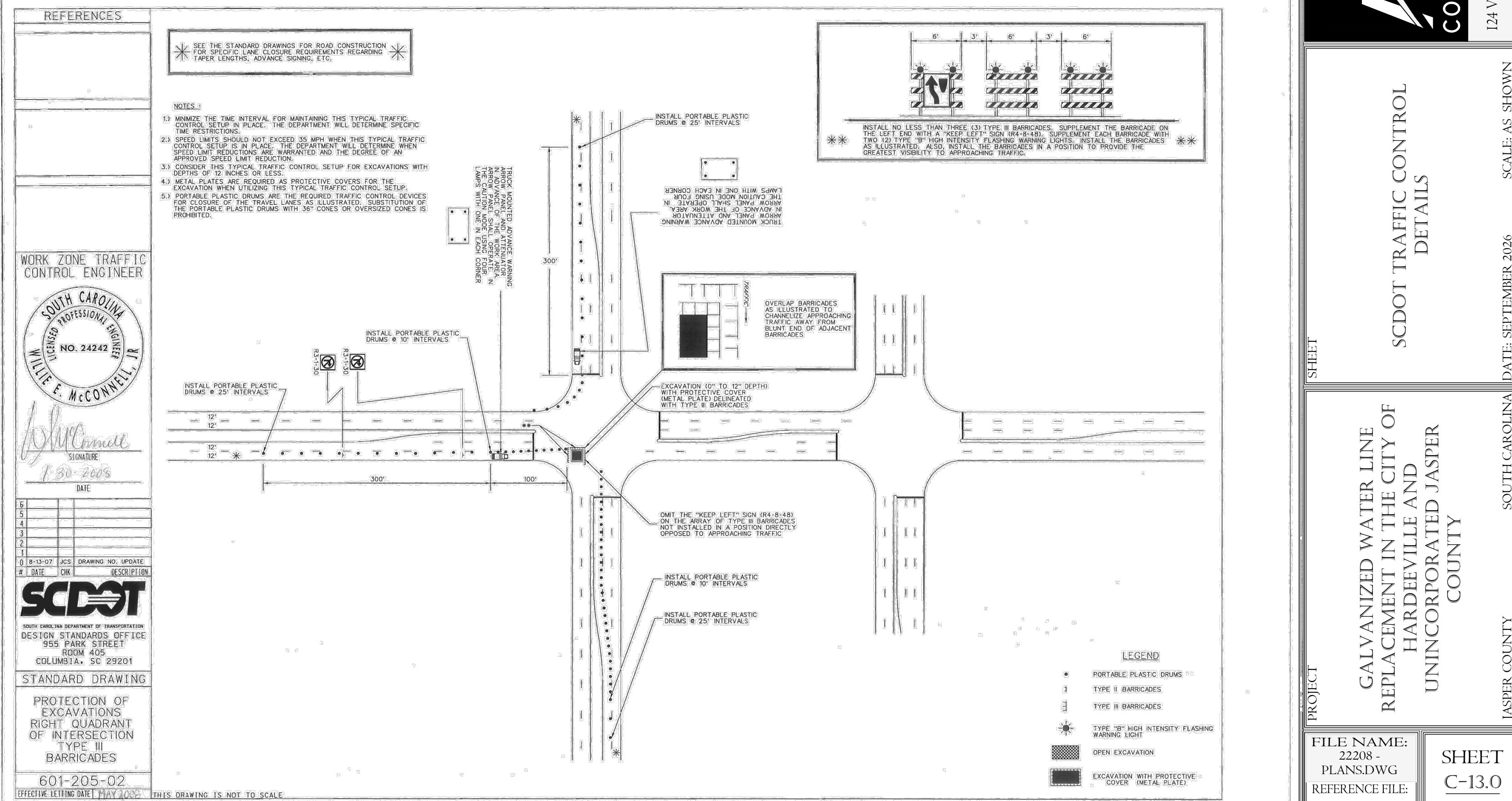
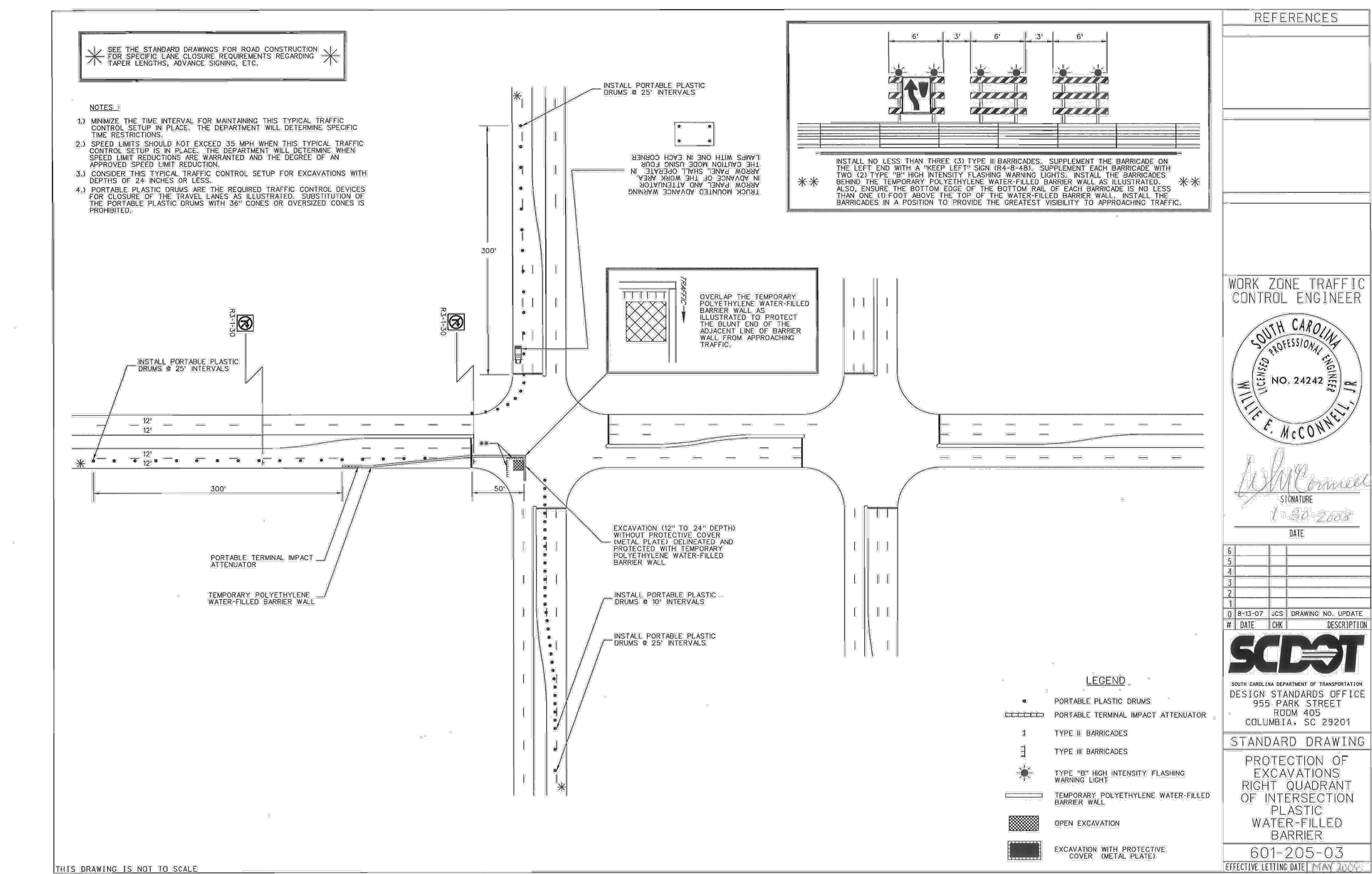
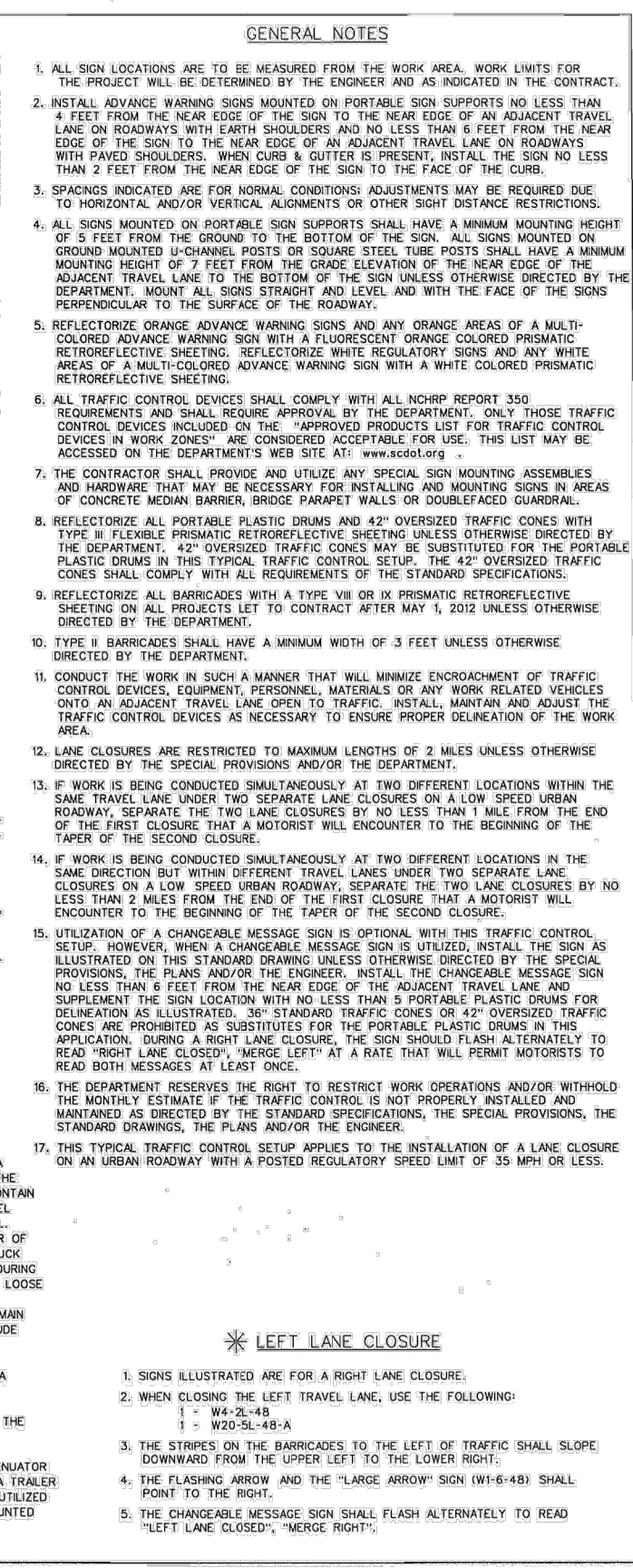
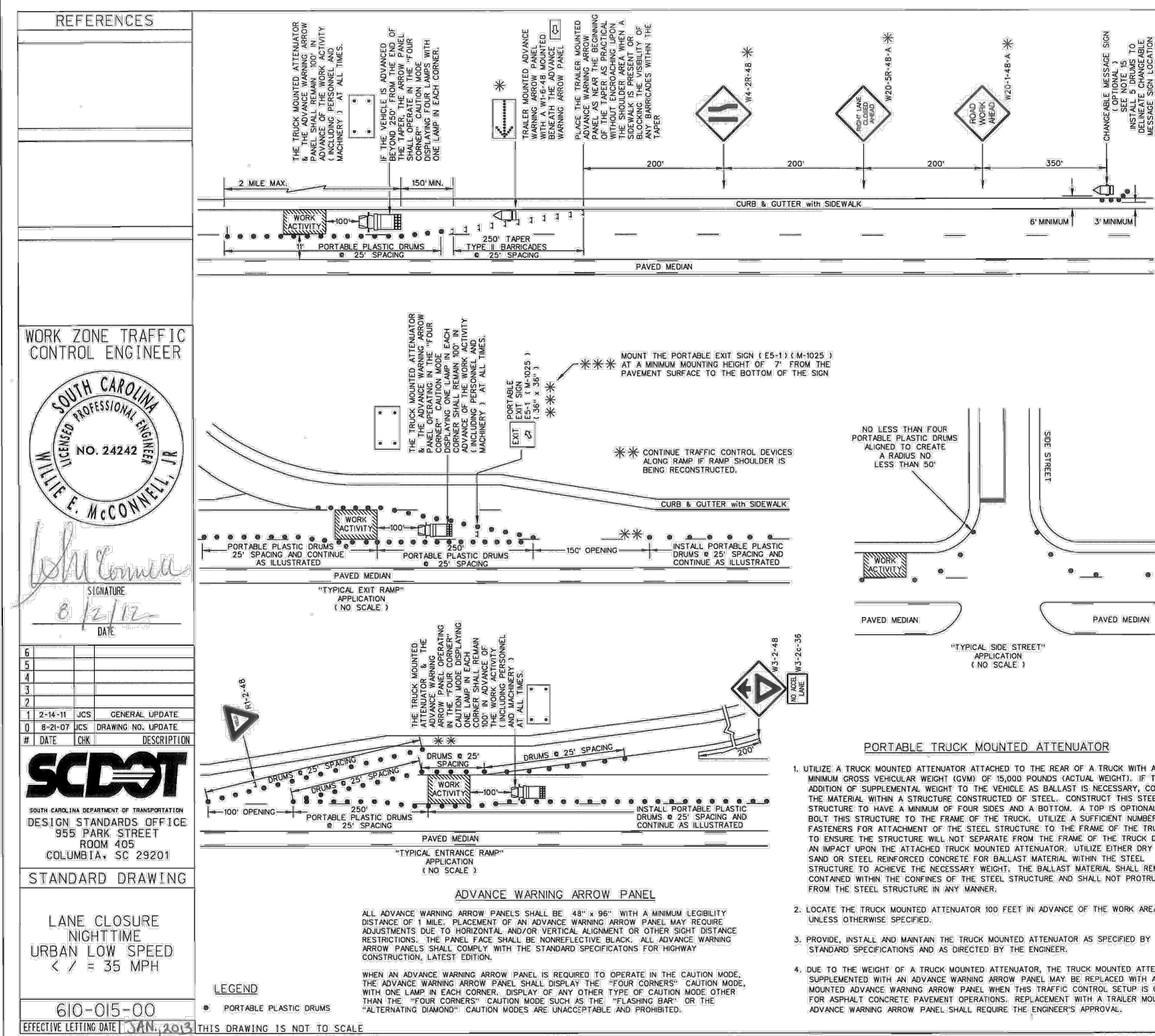
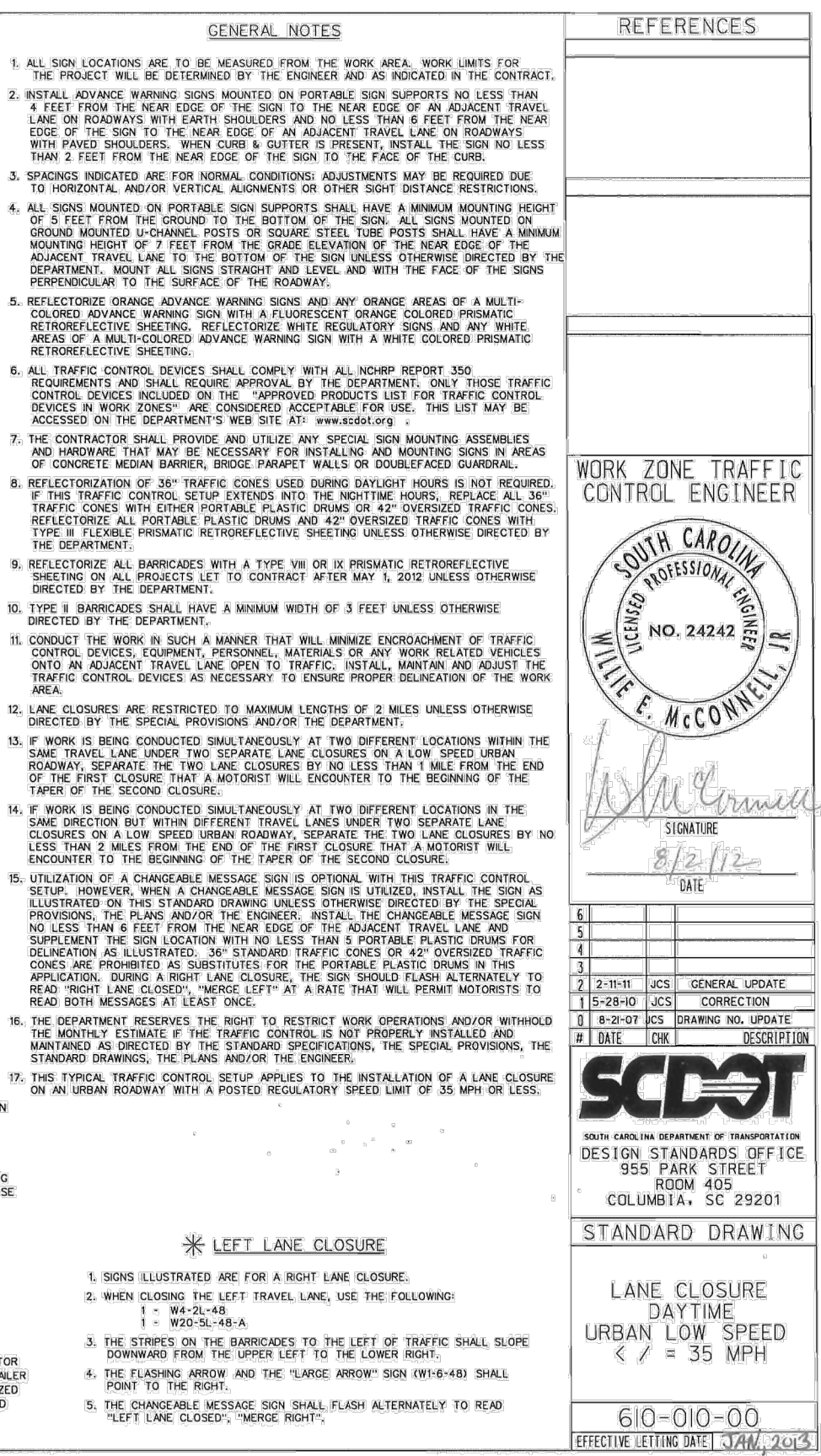
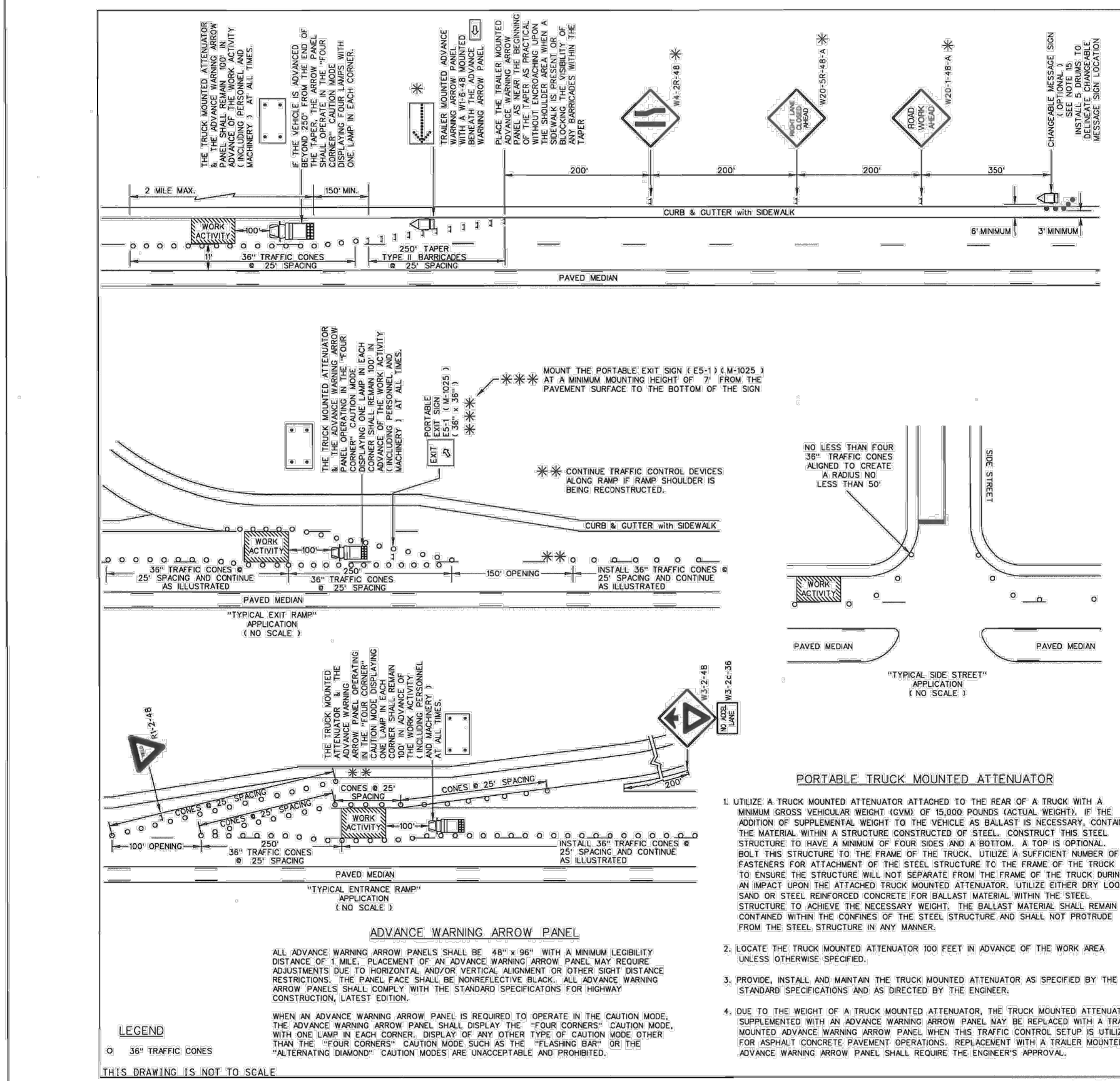
GALVANIZED WATER LINE
REPLACEMENT IN THE CITY OF
HARDEEVILLE AND
UNINCORPORATED JASPER
COUNTY

PROJECT

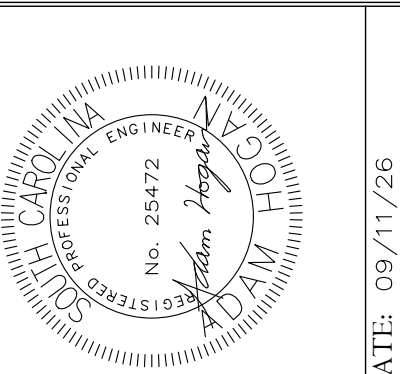
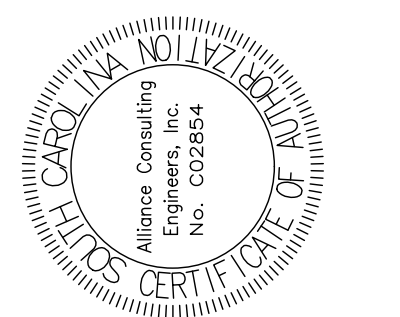
FILE NAME:
22208 -
PLANS.DWG
REFERENCE FILE:
22208 - BASE.DWG
PROJECT NO.
22208-0027

SHEET
C-12.1
OF
C-13.0

DWG NO. 01.1625-D28



	REVISION DATE					
A	DATE REVISION DESCRIPTION					
B	05/09/24 ISSUE FOR PERMITTING					
C	03/26/25 ISSUE FOR CONSTRUCTION (SCHEMATIC)					
D	09/11/26 ISSUE FOR BID					
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DATE: 09/11/26

24 Verdae Blvd - Bonaventure II, Suite 505 - Greenville, SC 29607
Amlance Consulting Engineers, Inc.
Phone (864) 284-1740 • Fax (864) 284-1741

SCALE: AS SHOWN

ER 2026

DATE: SEPT. 1964

SOUTH CAROLINA

JASPER COUNTY

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DWG NO. 01,1625-D28