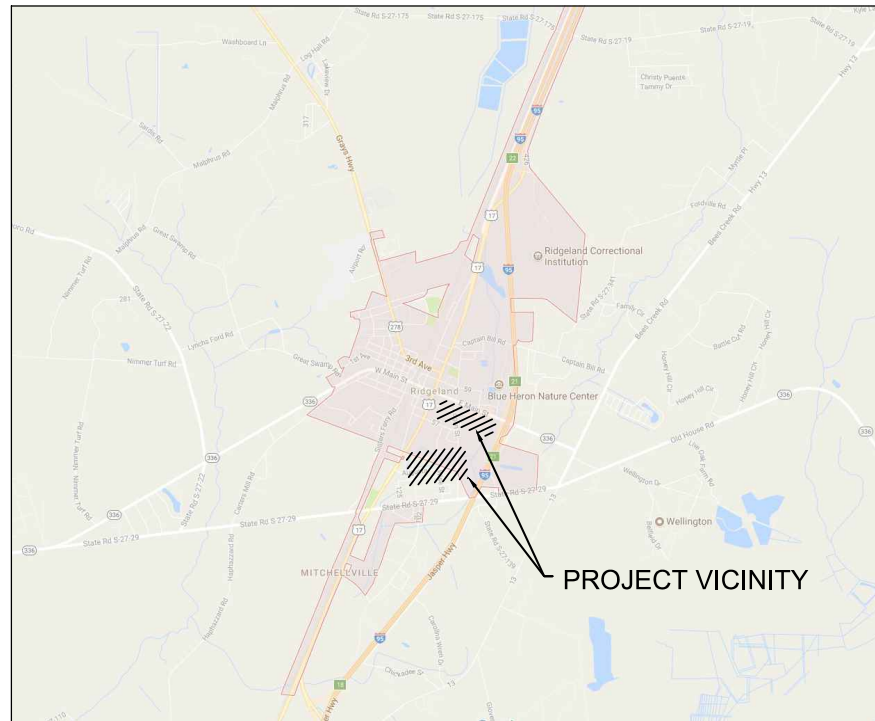


CONSTRUCTION DRAWINGS FOR:

TOWN OF RIDGELAND CDBG WATER AND SEWER IMPROVEMENTS

REQUEST FOR BIDS NO: TOR 2026-04



LOCATION MAP: N.T.S.



MAYOR

JOSEPH N. MALPHRUS, JR

COUNCIL MEMBERS

BILL FISHBURNE
LIBBY MALPHRUS
LEE GRAMLING
LINDA TENEROWICZ

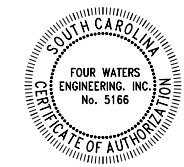
TOWN ADMINISTRATOR

DENNIS E. AVERKIN

PREPARED BY:



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DATE: APRIL 2026

ISSUE: 100%

PROJECT #: 17-1007.44

GENERAL NOTES:

1. ALL CONSTRUCTION SHALL CONFORM TO THE TOWN OF RIDGELAND STANDARD SPECIFICATIONS FOR WATER AND SEWER SYSTEMS, LATEST EDITION.
2. THE CONTRACTOR SHALL PROTECT ALL BENCH MARKS AND MONUMENTS FROM DAMAGE AND SHALL ESTABLISH OFFSET POINTS AS REQUIRED FOR THIS WORK. THE CONTRACTOR IS RESPONSIBLE FOR THE LAYOUT OF ALL SCHEDULED IMPROVEMENTS AS SHOWN ON THE CONTRACT DRAWINGS.
3. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION ACTIVITIES AND NOTIFYING THE TOWN ENGINEER OF POTENTIAL CONFLICTS. THE CONTRACTOR SHALL CONTACT THE LOCAL UTILITY MARK-OUT SERVICE PROVIDER PRIOR TO COMMENCING WORK.
4. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND PROTECT ANY EXISTING ABOVEGROUND AND UNDERGROUND UTILITIES, CONDUITS, STRUCTURES, EQUIPMENT, FOUNDATIONS, PIPE, ETC. AS NECESSARY TO COMPLETE THE PROJECT. THE CONTRACTOR SHALL NOTIFY THE OWNER'S OF THE UTILITY 72 HOURS PRIOR TO STARTING WORK AND SHALL BEAR ALL COSTS ASSOCIATED WITH SAME. VARIOUS UTILITIES MAY NEED TO BE RESET BY THE AFFECTED UTILITY COMPANY. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH THAT OF THE UTILITY COMPANY TO AVOID DELAYS. NO EXTENSION OF TIME WILL BE PROVIDED DUE TO THE LACK OF COORDINATION BY THE CONTRACTOR. THE CONTRACTOR SHALL PERFORM TEST PITS WHERE EXISTING UTILITIES ARE TO BE CROSSED. TEST PIT INFORMATION SHALL BE GIVEN TO THE TOWN ENGINEER PRIOR TO CONSTRUCTION TO PERMIT ADJUSTMENTS AS MAY BE REQUIRED TO AVOID CONFLICTS.
5. THE CONTRACTOR SHALL BE RESPONSIBLE TO CONSTRUCT ALL IMPROVEMENTS WITHIN SCDOT AND TOWN R.O.W.'S AND EASEMENTS. ALL SURVEY LAYOUT VERIFYING THE EXACT LOCATION OF THE R.O.W.'S SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ALL COSTS FOR SAME SHALL BE INCLUDED WITHIN THE VARIOUS BID ITEMS.
6. THE CONTRACTOR SHALL TAKE CARE IN MAINTAINING ALL LANDSCAPING AND YARD STRUCTURES WITHIN THE CONSTRUCTION LIMITS. WHEN RELOCATION IS NECESSARY OR WHERE ANY DAMAGE IS DONE TO SAID ITEMS THEY SHALL BE RESTORED BY THE CONTRACTOR, AT HIS EXPENSE, TO THE SATISFACTION OF THE TOWN ENGINEER.
7. ANY CONCRETE DRIVEWAY, WALKWAY, OR CURB WHICH IS NOT SHOWN, DIRECTED, OR MARKED OUT BY THE ENGINEER TO BE REPLACED, BUT IS REMOVED, MISALIGNED OR DAMAGED AS A RESULT OF THE CONTRACTOR'S CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR PER SCDOT STANDARDS AT NO ADDITIONAL COSTS TO THE TOWN.
8. THE CONTRACTOR SHALL ENSURE THAT POSITIVE DRAINAGE AWAY FROM RESIDENCES AND ALONG ROAD GUTTERS IS MAINTAINED AT ALL LOCATIONS DISTURBED WITHIN THE PROJECT LIMITS.
9. IF IT SHALL BECOME ABSOLUTELY NECESSARY TO PERFORM WORK AT NIGHT, THE TOWN ENGINEER SHALL BE INFORMED IN ADVANCE. GOOD LIGHTING AND ALL OTHER NECESSARY FACILITIES FOR PROPERLY CARRYING OUT AND INSPECTING THE WORK SHALL BE PROVIDED BY THE CONTRACTOR. THE CONTRACTOR SHALL ALSO COMPLY WITH ALL STATE AND LOCAL REGULATIONS GOVERNING HOURS DURING WHICH CONSTRUCTION EQUIPMENT MAY BE OPERATED.
10. OPEN TRENCHES SHALL BE KEPT TO A MINIMUM. NO EXCAVATION AREAS ARE TO REMAIN OPEN OVERNIGHT. BITUMINOUS STABILIZED BASE COURSE SHALL BE PLACED IN ALL TRENCH AREAS WITHIN THE ROADWAY AT THE END OF EACH DAY'S WORK.
11. IN THE EVENT A SITUATION ARISES IN WHICH MATERIALS NOT SPECIFIED ON THE PLANS ARE TO BE USED FOR EXTRA WORK, THEN THE MATERIALS SHALL CONFORM TO THE TOWN OF RIDGELAND STANDARD SPECIFICATIONS FOR WATER AND SEWER SYSTEMS.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISPOSAL OF ALL MATERIALS EXCAVATED OF WHATEVER NATURE AT HIS OWN EXPENSE. THE TOWN IS NOT OBLIGATED TO SUPPLY A DISPOSAL SITE. THE CONTRACTOR CAN NOT DEPOSIT ANY OF THE EXCESS MATERIALS WITHIN TOWN LIMITS WITHOUT THE EXPRESS PERMISSION OF THE TOWN ENGINEER. MATERIALS MUST BE DISPOSED OF IN ACCORDANCE WITH ALL STATE REGULATIONS REGARDING SAME.
13. ALL STRUCTURES SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND DETAILS.
14. PROTECTION OF EXISTING TREES WITHIN THE LIMITS OF DISTURBANCE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE TOWN ENGINEER SHALL DETERMINE IN THE FIELD WHICH TREES REQUIRE TREE PROTECTION. NO CONSTRUCTION EQUIPMENT OR SUPPLIES SHALL BE STOCKPILED OR STORED WITHIN THE DRIP LINE OF ANY EXISTING TREE TO REMAIN.
15. ALL PROPERTY CORNERS OR MONUMENTS REMOVED OR DAMAGED DURING CONSTRUCTION SHALL BE REPLACED BY A SOUTH CAROLINA LICENSED LAND SURVEYOR, AT NO ADDITIONAL COST TO THE TOWN.
16. THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO MAINTAIN DUST CONTROL AS REQUIRED OR DIRECTED BY THE TOWN ENGINEER. ALL VEHICLES SHALL BE CLEAN AND ALL ROADWAYS SHALL BE MAINTAINED AS DIRECTED BY THE TOWN ENGINEER.
17. ALL PAVEMENT MARKINGS AND SIGNS SHALL CONFORM TO THE SCDOT STANDARDS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING PAVEMENT MARKINGS. CONTRACTOR SHALL NOTIFY TOWN ENGINEER AND SCDOT WHEN TRAFFIC STRIPES AND PAVEMENT MARKINGS HAVE BEEN LAID OUT PRIOR TO PAINTING. SCDOT WILL INSPECT AND APPROVE LAYOUT PRIOR TO CONTRACTOR PAINTING TRAFFIC STRIPES AND PAVEMENT MARKINGS.
18. THE CONTRACTOR SHALL PERFORM ONLY THE AMOUNT OF WORK WHICH CAN BE COMPLETED THE SAME DAY. THE ENTIRE ROADWAY SHALL BE OPENED TO TRAFFIC AFTER WORK HOURS UNLESS APPROVED BY TOWN AND SCDOT. SCDOT TEMPORARY PAVEMENT OR APPROVED SURFACE SHALL BE PLACED IN CONSTRUCTION AREAS TO PROVIDE A SMOOTH, SAFE SURFACE FOR VEHICULAR TRAFFIC. THE COST FOR TEMPORARY PAVEMENT SHALL BE INCLUDED IN UNIT PRICE BID FOR VARIOUS CONSTRUCTION ITEMS.
19. THE CONTRACTOR IS RESPONSIBLE FOR THE CONSTRUCTION STAKEOUT. OFFSET LINES WITH STAKES SHALL BE SET AT APPROPRIATE INTERVALS TO FACILITATE CONSTRUCTION. CUT SHEETS SHALL BE SUBMITTED FOR APPROVAL TO THE TOWN ENGINEER AND TO THE WORK CREWS AT LEAST 5 DAYS PRIOR TO CONSTRUCTION.
20. ALL EXISTING STRUCTURES AND ALL UNDERGROUND STRUCTURES ARE TO BE REMOVED IN ACCORDANCE WITH STATE REGULATIONS.
21. THE CONTRACTOR SHALL NOTIFY THE TOWN ENGINEER IMMEDIATELY IF ANY FIELD CONDITIONS ENCOUNTERED DIFFER FROM THOSE SHOWN HEREIN.
22. WORK WITHIN SCDOT ROW SHALL BE CONDUCTED IN COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS OF THE NPDES PERMIT(S) ISSUED TO SCDOT TO GOVERN THE DISCHARGE OF STORM WATER AND NON-STORM WATER FROM ITS PROPERTIES
23. THESE GENERAL NOTES SHALL APPLY FOR THE ENTIRE PROJECT.

NOTES FOR MAINTENANCE AND PROTECTION OF TRAFFIC:

1. ALL DEVICES AND PROCEDURES FOR THE MAINTENANCE AND PROTECTION OF TRAFFIC SHALL BE IN ACCORDANCE WITH THE SCDOT. THE CONTRACTOR SHALL PLAN AND CARRY OUT HIS WORK TO PROVIDE FOR THE CONVENIENT AND SAFE PASSAGE OF ALL VEHICULAR AND PEDESTRIAN TRAFFIC ON ADJACENT STREETS.
2. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING MAINTENANCE AND PROTECTION OF TRAFFIC THROUGH THE DURATION OF CONSTRUCTION. NO SEPARATE PAYMENTS WILL BE MADE FOR RELOCATING THE DEVICES AS REQUIRED, OR AS DIRECTED BY THE TOWN ENGINEER, DURING THE COURSE OF CONSTRUCTION.
3. DURING CONSTRUCTION, ALL ROADS SHALL BE PROPERLY MAINTAINED TO ACCOMMODATE EMERGENCY VEHICLES AT ALL TIMES.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH THE LOCAL AND STATE POLICE DEPARTMENTS FOR TRAFFIC OPERATIONS AND PARKING PROHIBITIONS DURING CONSTRUCTION.
5. THE CONTRACTOR SHALL COORDINATE ANY TEMPORARY DETOURS NECESSARY WITH THE POLICE, TOWN ENGINEER AND/OR FIRE DEPARTMENTS PRIOR TO CONSTRUCTION. ALL EMERGENCY VEHICLES MUST HAVE ACCESS TO STREETS AT ALL TIMES AND ALL RESIDENTS MUST HAVE ACCESS TO THEIR HOMES AT ALL TIMES. THE CONTRACTOR IS RESPONSIBLE FOR RESTORING THE ROADWAY TO A SAFE CONDITION AT THE END OF EACH DAY'S WORK PER SCDOT STANDARDS.
6. ALL TRAFFIC CONTROL SIGNS AND STRIPING SHALL BE INSTALLED IN ACCORDANCE WITH THE SCDOT. EXACT LOCATION OF STREET SIGNS SHALL BE DETERMINED BY SCDOT SPECIFICATIONS.



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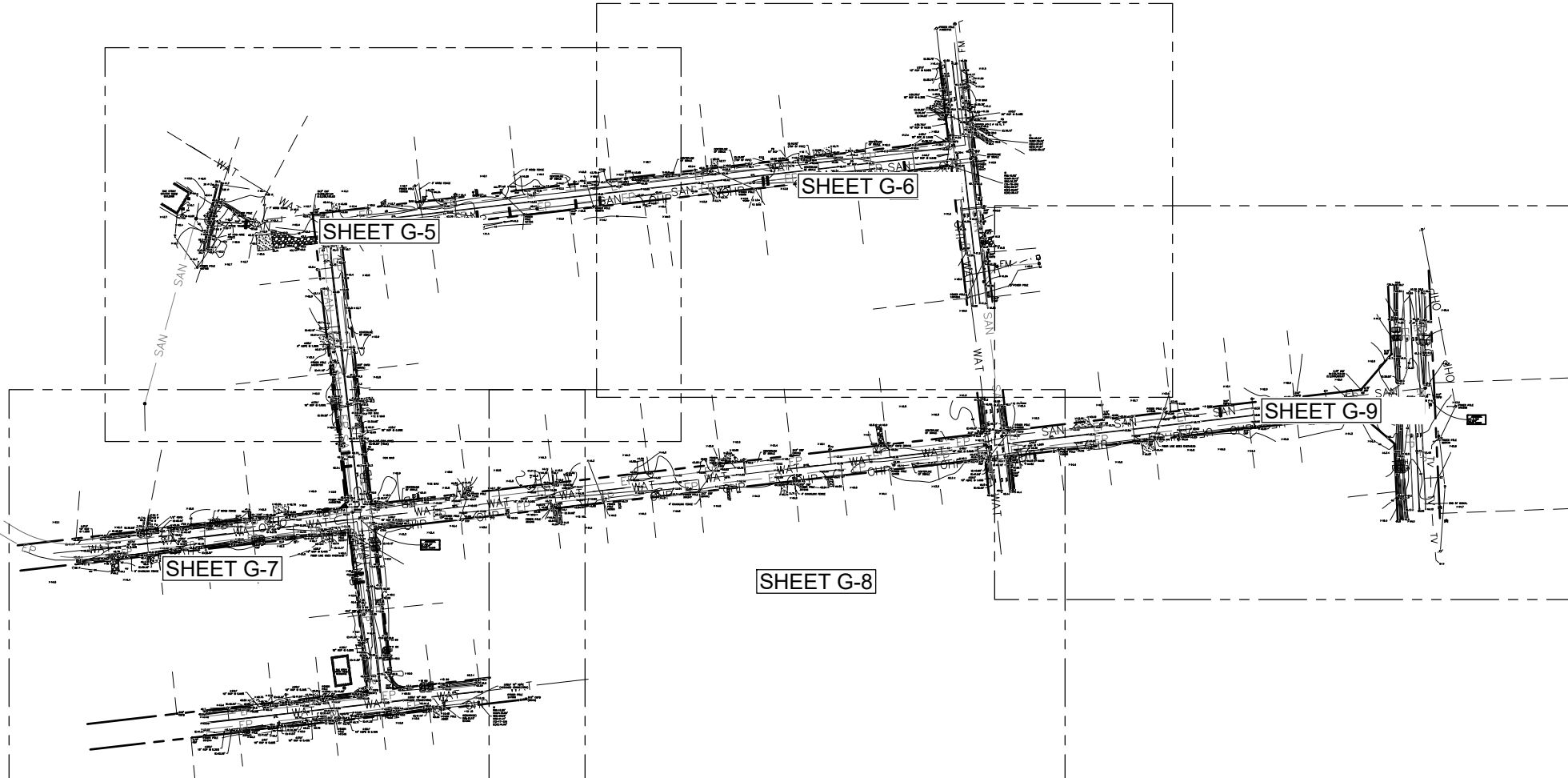
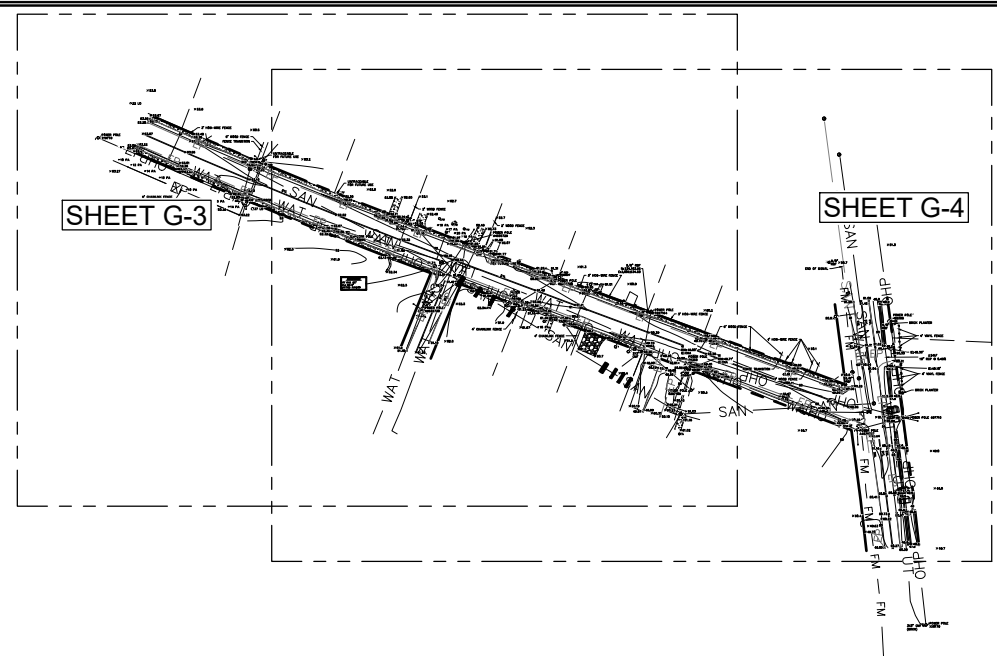
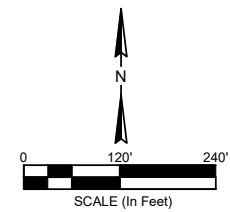
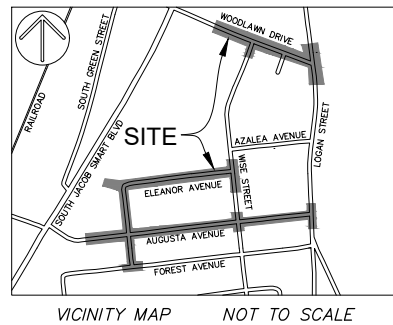
TOWN OF RIDGELAND
CDBG WATER AND SEWER IMPROVEMENTS
GENERAL NOTES
TOWN OF RIDGELAND
SOUTH CAROLINA

DESIGN ABB	BRH	17-007-44
JOB #	ISSUE DATE	APRIL 2026
	ISSUE	100%

FOUR WATERS ENGINEERING
324 6th AVE. N. JACKSONVILLE BEACH, FLORIDA 32250
844-414-2400 S.C. COA # 5166 WWW.FWENG.COM

DRAWING NUMBER
G-1

- LEGEND**
- AIF ■ ANGLE IRON FOUND
 - AXF ■ AXLE FOUND
 - CMF ■ CONC. MONUMENT FOUND
 - CMFD ■ CONC. MONUMENT FOUND DISTURBED
 - CTPD ■ CRIMPED TOP PIPE DISTURBED
 - NF ● NAIL FOUND
 - OTP ● OPEN TOP PIPE
 - OTPD ● OPEN TOP PIPE DISTURBED
 - PKF ● PK NAIL FOUND
 - PKS ○ PK NAIL SET
 - RBF ● IRON REBAR FOUND
 - RRSF ● RAILROAD SPIKE FOUND
 - RWMFD ■ RIGHT-OF-WAY CONC. MONUMENT FOUND DISTURBED
 - XF × SCRIBED X FOUND
 - ACU ■ AIR CONDITIONING UNIT
 - BOLLARD
 - OCJ ■ CABLE JUNCTION BOX
 - OCATV ■ CABLE OR T.V. PEDESTAL
 - CURB INLET
 - ⊙ ELECTRIC METER
 - ⊙ FIBER OPTIC BOX
 - ⊙ FIRE HYDRANT
 - ⊙ FLAG POLE
 - ⊙ GRATE INLET
 - × GUY WIRE
 - ⊙ IRRIGATION CONTROL VALVE
 - ⊙ LIGHT POLE
 - ⊙ MAIL BOX
 - ⊙ POWER POLE
 - ⊙ SANITARY SEWER CLEAN OUT
 - ⊙ SANITARY SEWER MANHOLE
 - ⊙ SIGN
 - ⊙ SPIGOT
 - ⊙ SPOT ELEVATION
 - ⊙ SPRINKLER
 - ⊙ TELEPHONE JUNCTION BOX
 - ⊙ TELEPHONE PEDESTAL
 - ⊙ WATER METER
 - ⊙ WATER VALVE
 - BLACK GUM
 - DGW ■ DOGWOOD
 - G ■ SWEET GUM
 - HOL ■ HOLLY
 - LO ■ LIVE OAK
 - MAG ■ MAGNOLA
 - ORN ■ ORNAMENTAL
 - PA ■ PALMETTO
 - P ■ PINE
 - RBD ■ RED BUD
 - T ■ TALLOW
 - BOC ■ BACK OF CURB
 - CNA ■ COULD NOT ACCESS/ACQUIRE
 - DYL ■ DOUBLE YELLOW LINE (SOLID)
 - DYSL ■ DOUBLE YELLOW LINE (1 DASHED)
 - HDPE ■ HIGH DENSITY POLYETHYLENE
 - IE ■ INVERT ELEVATION
 - MCP ■ METAL CORRUGATED PIPE
 - PD ■ PIPE DIRECTION
 - PIN ■ PARCEL ID NUMBER
 - PVC ■ POLYVINYL CHLORIDE PIPE
 - RCP ■ REINFORCED CONCRETE PIPE
 - SBA ■ STOP BAR
 - SDWL ■ SINGLE DASHED WHITE LINE
 - SDYL ■ SINGLE DASHED YELLOW LINE
 - SED ■ TOP OF SEDIMENT
 - SWL ■ SINGLE WHITE LINE (SOLID)
 - TOP ■ TOP OF PIPE
 - WSE ■ WATER SURFACE ELEVATION
 - BB ■ BOTTOM OF BANK
 - 8 ■ CONTOUR LINE
 - CLD ■ CENTERLINE OF DITCH
 - X ■ FENCE LINE
 - FM ■ FORCEMAIN
 - OHP ■ OVERHEAD POWER LINE
 - TB ■ TOP OF BANK
 - SD ■ UNDERGROUND DRAINAGE LINE
 - UE ■ UNDERGROUND ELECTRIC LINE
 - UFO ■ UNDERGROUND FIBER OPTICS LINE
 - SS ■ UNDERGROUND SEWER LINE
 - UT ■ UNDERGROUND TELEPHONE
 - TV ■ UNDERGROUND TV LINE
 - W ■ UNDERGROUND WATER LINE
 - BRICK ■ BRICK
 - CONCRETE ■ CONCRETE
 - EDGE OF PAVEMENT ■ EDGE OF PAVEMENT
 - GRAVEL ■ GRAVEL
 - RIP-RAP ■ RIP-RAP



1. FULL LEGEND IS LOCATED ON COVER SHEET.
2. THESE PARCELS APPEAR TO LIE IN FLOOD ZONE X, COMMUNITIES 450112 (JASPER COUNTY) AND 450114 (TOWN OF RIDGELAND), MAP NUMBER 4505300305D. EFFECTIVE DATE: OCTOBER 18, 2019
3. CONTOURS ARE IN ONE FOOT INTERVALS. TREE SIZES SHOWN ARE IN INCHES OF DIAMETER.
4. VERTICAL DATUM IS NAVD 88.
5. BUILDING SETBACK REQUIREMENTS ARE TO BE DETERMINED BY THE PROPER AUTHORITIES AND MUST BE VERIFIED PRIOR TO DESIGN AND CONSTRUCTION.
6. HORIZONTAL DATUM IS SOUTH CAROLINA STATE PLANE GRID (NAD 83).
7. BOUNDARY SURVEY NOT PERFORMED AT THE TIME OF FIELDWORK.
8. UNLESS ONE IS IDENTIFIED HEREON, NO TITLE PACKAGE PROVIDED PRIOR TO THE DATE SHOWN ON THIS SURVEY. ALL EASEMENTS AND APPURTENANCES AFFECTING THIS PROPERTY NOT NECESSARILY SHOWN.
9. THIS PLAT OR MAP IS FOR THE EXCLUSIVE USE OF FOUR WATERS ENGINEERING, INC. PROPERTY LINES SHOWN ON THIS PLAT WERE DETERMINED BY LIMITED FIELD SURVEYS, RECORDED PLATS AND TAX MAPS AND ARE INTENDED TO SHOW GENERAL BOUNDARY LOCATIONS FOR THE PURPOSE OF TOPOGRAPHIC INFORMATION ONLY AND SHOULD NOT BE USED FOR ANY OTHER PURPOSE. NO GUARANTEES ARE EXPRESSED OR IMPLIED.
10. THE EXISTENCE AND LOCATION OF THE SURFACE AND SUB-SURFACE UTILITIES SHOWN HEREON ARE BASED UPON AVAILABLE RECORDS AND SURFACE VISIBLE FEATURES ALONG WITH ELECTRONIC AND ACOUSTICAL EVIDENCE AS OF JANUARY 15, 2025. THE EXTENT AND LIABILITY OF THIS INFORMATION IS LIMITED TO THE STANDARDS OF CARE FOR A SPECIFIC UTILITY INVESTIGATION AS DEFINED BY THE AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE) PUBLICATION 38-02. THE EXACT LOCATION AND DEPTH OF UNDERGROUND UTILITIES CANNOT BE DETERMINED WITHOUT EXPOSING THEM IN SOME WAY. PRIOR TO CONSTRUCTION OR EXCAVATION, IT IS REQUIRED BY LAW TO CONTACT THE STATE 811 UTILITY PROTECTION CENTER.

PREPARED FOR:
FOUR WATERS ENGINEERING, INC.
 AN AS-BUILT, TREE AND TOPOGRAPHIC SURVEY OF

**TOWN OF RIDGELAND
 WATER AND SEWER REPLACEMENT,
 ELEANOR & AUGUSTA AVENUE &
 EAST WOODLAWN STREET**

TOWN OF RIDGELAND
 JASPER COUNTY, SOUTH CAROLINA

FIELD WORK: TNW
 FIELD CHECK: JWR
 DRAWN BY: JWR
 FIELD DATE: 01-30-2025
 DATE: 02-20-2026
 SCALE: 1"=120'
 PROJECT No.: 017-24377
 FILE:

COVER SHEET

ATLAS
 SURVEYING, INC.

168 BOARDWALK DRIVE, SUITE A.
 RIDGELAND, SC 29936.
 PHONE: (843) 645-9277
 WEBSITE: WWW.ATLASSURVEYING.COM



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TOWN OF RIDGELAND
 CDBG WATER AND SEWER IMPROVEMENTS

EXISTING CONDITIONS - KEY MAP

TOWN OF RIDGELAND
 SOUTH CAROLINA

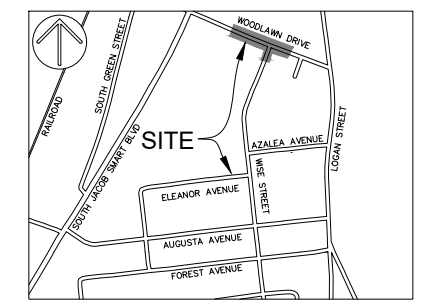
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			100%

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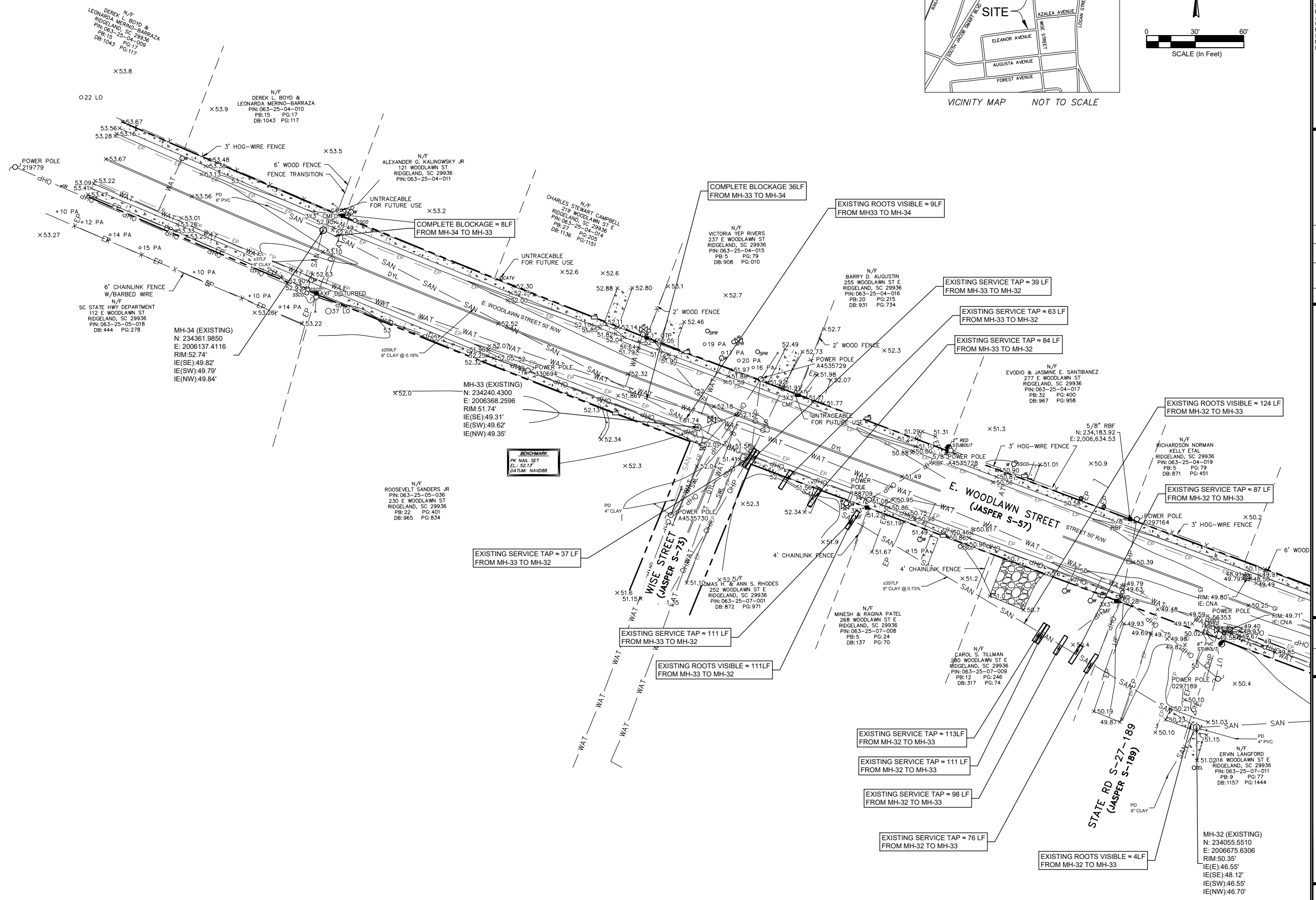
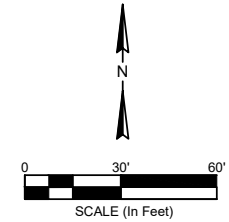
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VICINITY MAP NOT TO SCALE



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TOWN OF RIDGELAND
CDBG WATER AND SEWER IMPROVEMENTS

EXISTING CONDITIONS

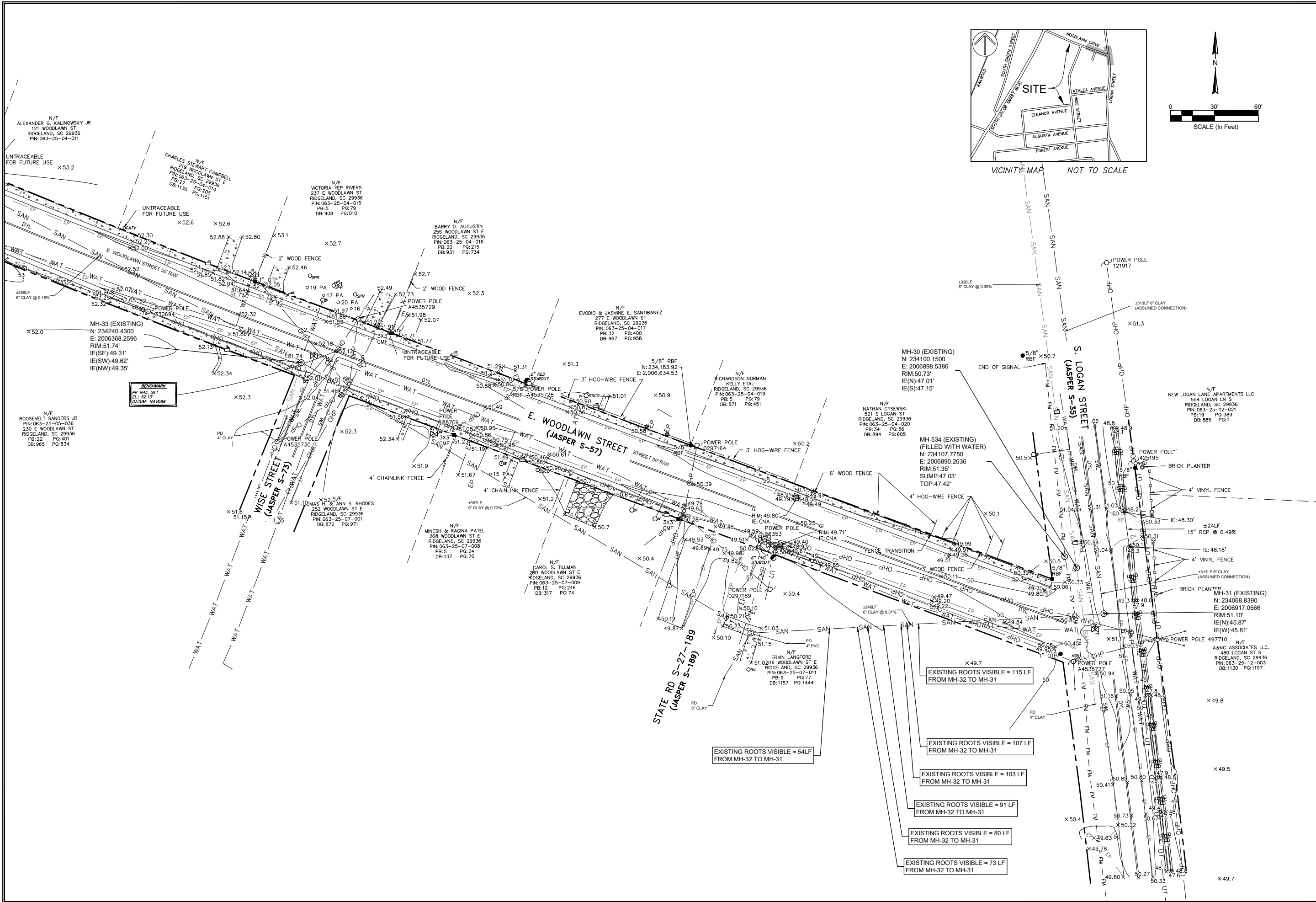
TOWN OF RIDGELAND
SOUTH CAROLINA

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ABB	BRH	17-1007-44	APRIL 2026	100%

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DRAWING NUMBER
G-3



REGISTERED PROFESSIONAL ENGINEER
No. 21839
ANGELA B. BRYAN
SOUTH CAROLINA
CREATED BY
FOUR WATERS ENGINEERING, INC.
No. 5166
STATE OF AUTHORITY

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TOWN OF RIDGELAND
CDBG WATER AND SEWER IMPROVEMENTS

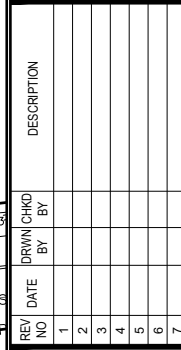
EXISTING CONDITIONS

TOWN OF RIDGELAND
SOUTH CAROLINA

DESIGN
ABB: BRH
JOB #: 17-1007-44
ISSUE DATE: APRIL 2026
ISSUE: 100%

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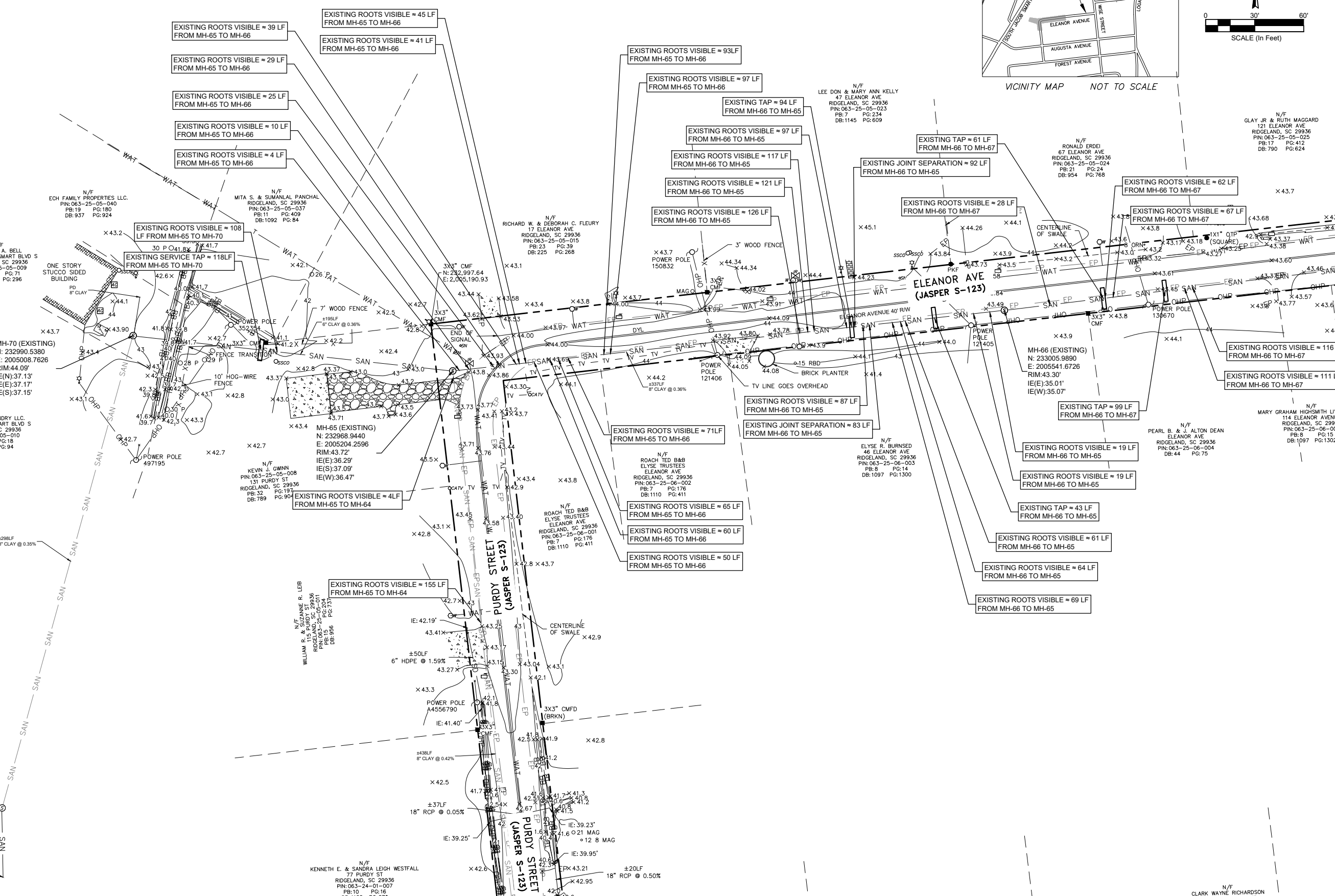
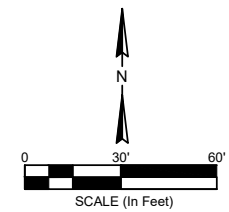
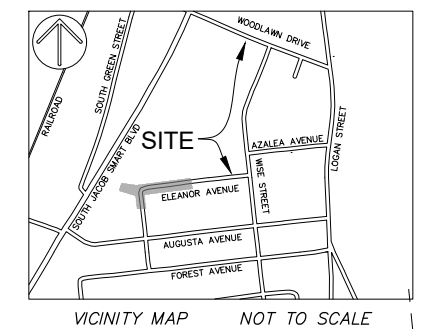
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DRAWING NUMBER
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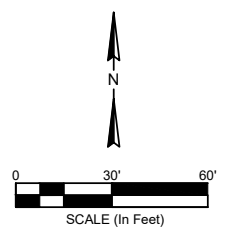
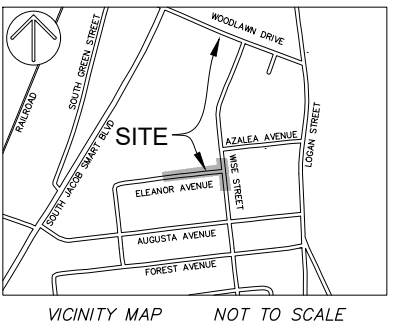
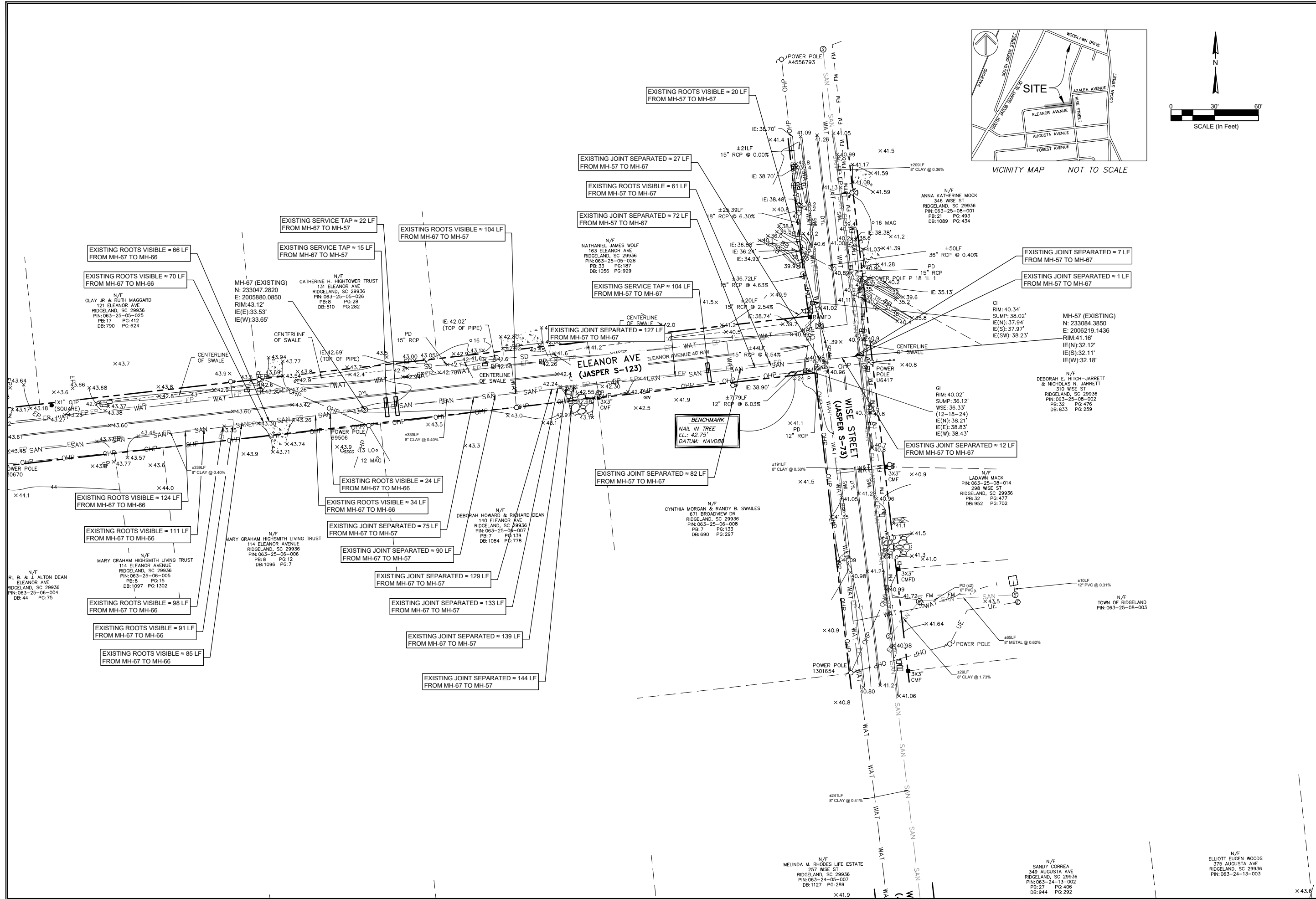


TOWN OF RIDGELAND
CDBG WATER AND SEWER IMPROVEMENTS

EXISTING CONDITIONS

TOWN OF RIDGELAND
SOUTH CAROLINA

DRW: BRH
CHK: JWR
APP: JWR
DATE: 4/22/2026
TIME: 9:19:03 AM



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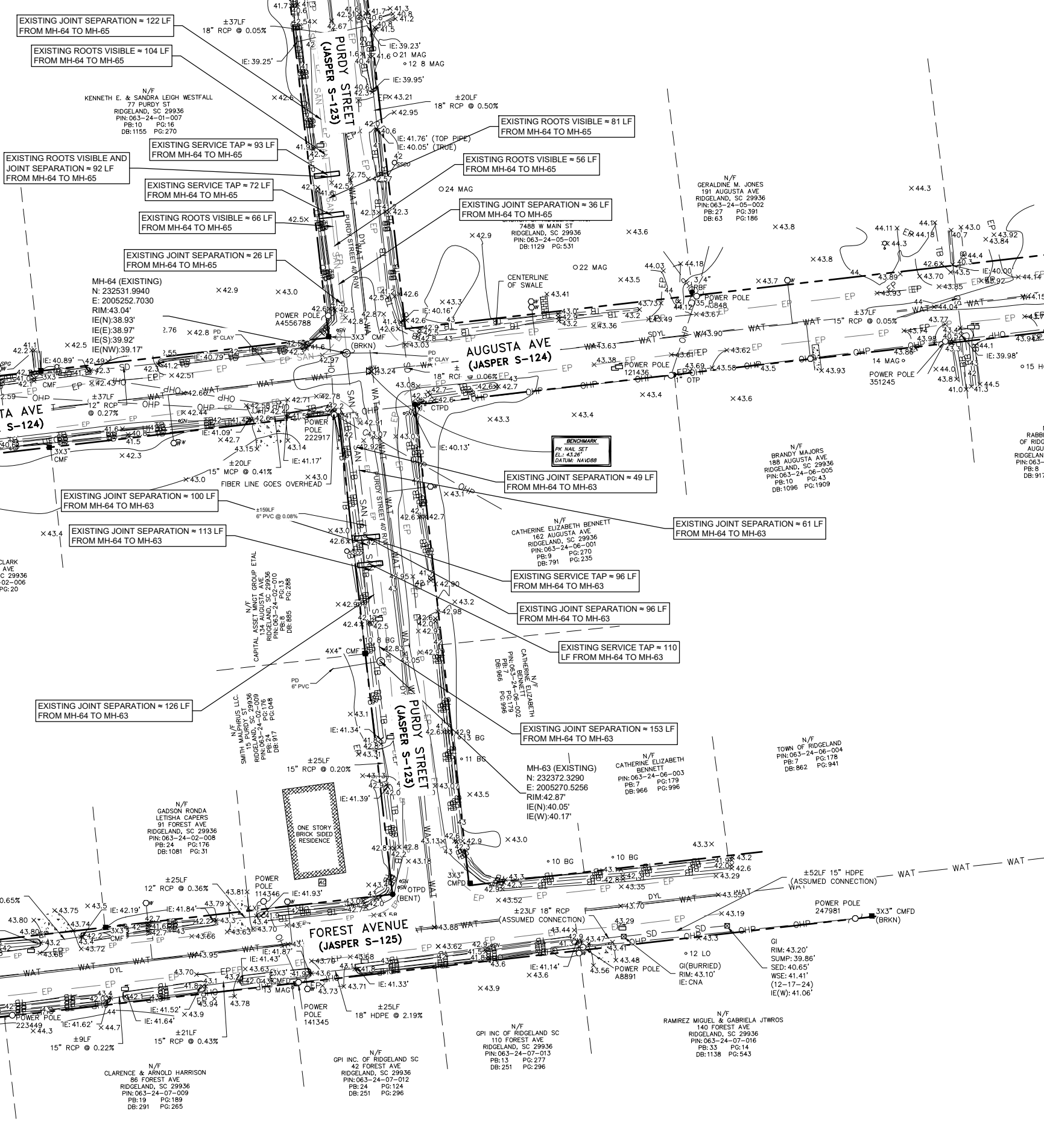
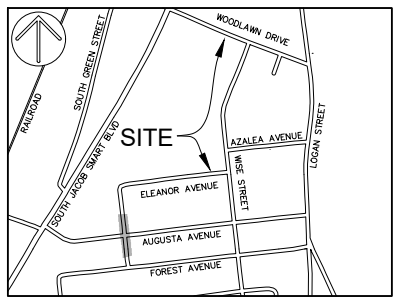
EXISTING CONDITIONS
 TOWN OF RIDGELAND
 CDBG WATER AND SEWER IMPROVEMENTS
 SOUTH CAROLINA

DESIGN ABB	17-1007-44
JOB #	APRIL 2026
ISSUE DATE	ISSUE
ISSUE	100%

FOUR WATERS ENGINEERING
 324 6th AVE. N. JACKSONVILLE BEACH, FLORIDA 32250
 844-414-2400 S.C. COA # 5166 WWW.FWENG.COM

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 17-1007-44
 APRIL 2026
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DRAWING NUMBER
G-6



SOUTH CAROLINA
 REGISTERED PROFESSIONAL ENGINEER
 No. 21839
 ANGELA B. BRYAN

SOUTH CAROLINA
 REGISTERED PROFESSIONAL ENGINEER
 No. 5166
 FOUR WATERS
 ENGINEERING, INC.

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TOWN OF RIDGELAND
 CDBG WATER AND SEWER IMPROVEMENTS

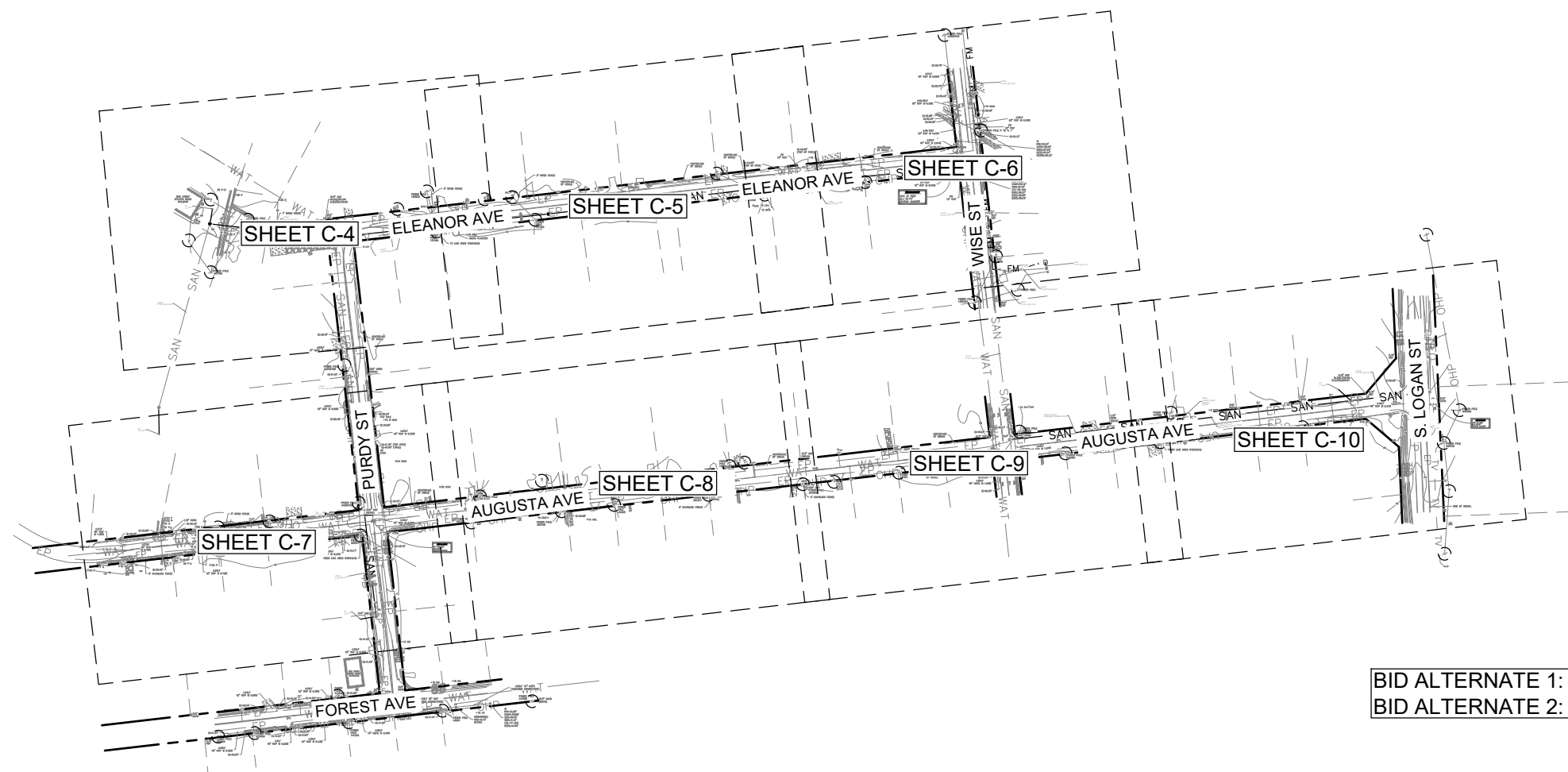
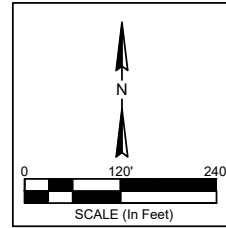
EXISTING CONDITIONS

TOWN OF RIDGELAND
 SOUTH CAROLINA

DESIGN	DRAWN	BRH	17-1007-44
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JOB #			
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G-7



BID ALTERNATE 1: C-4 TO C-7 PIPE WORK
 BID ALTERNATE 2: C-9 TO C-10 PIPE WORK



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TOWN OF RIDGELAND
 CDBG WATER AND SEWER IMPROVEMENTS
**PROPOSED IMPROVEMENTS -
 SEWER KEY MAP**
 TOWN OF RIDGELAND
 SOUTH CAROLINA

DESIGN ABB.	DRAWN BRH.
ABB	BRH

JOB # 17-1007.44

ISSUE DATE APRIL 2026

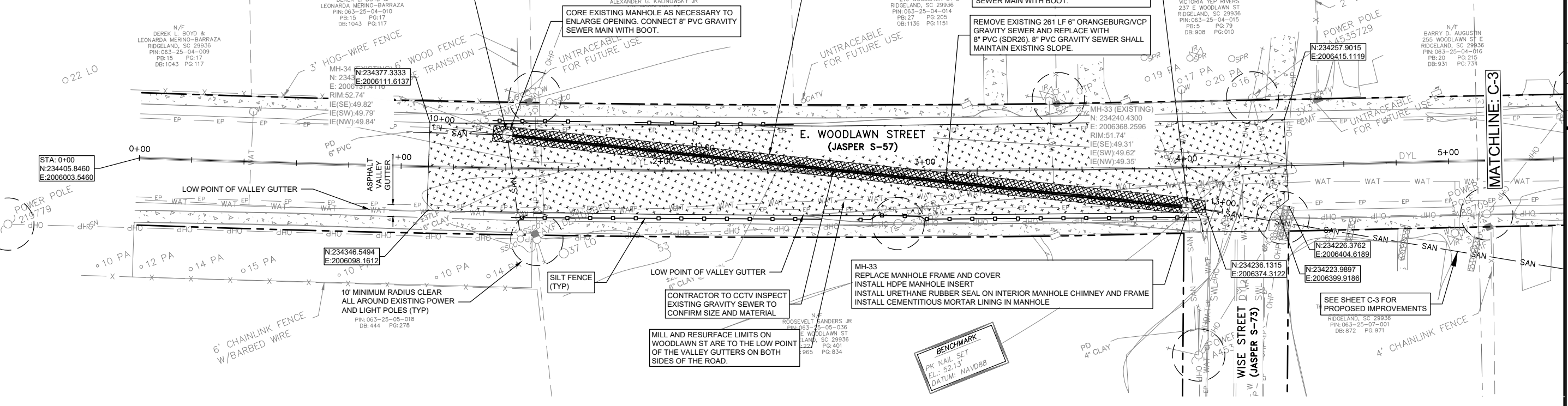
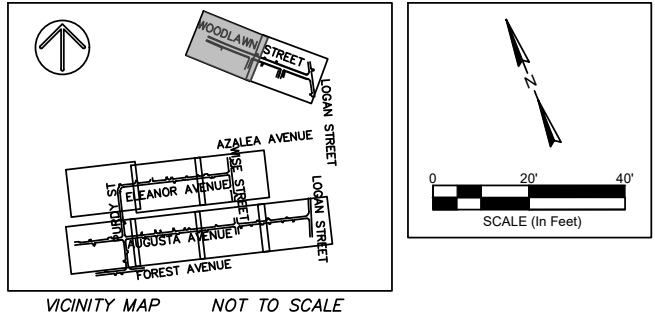
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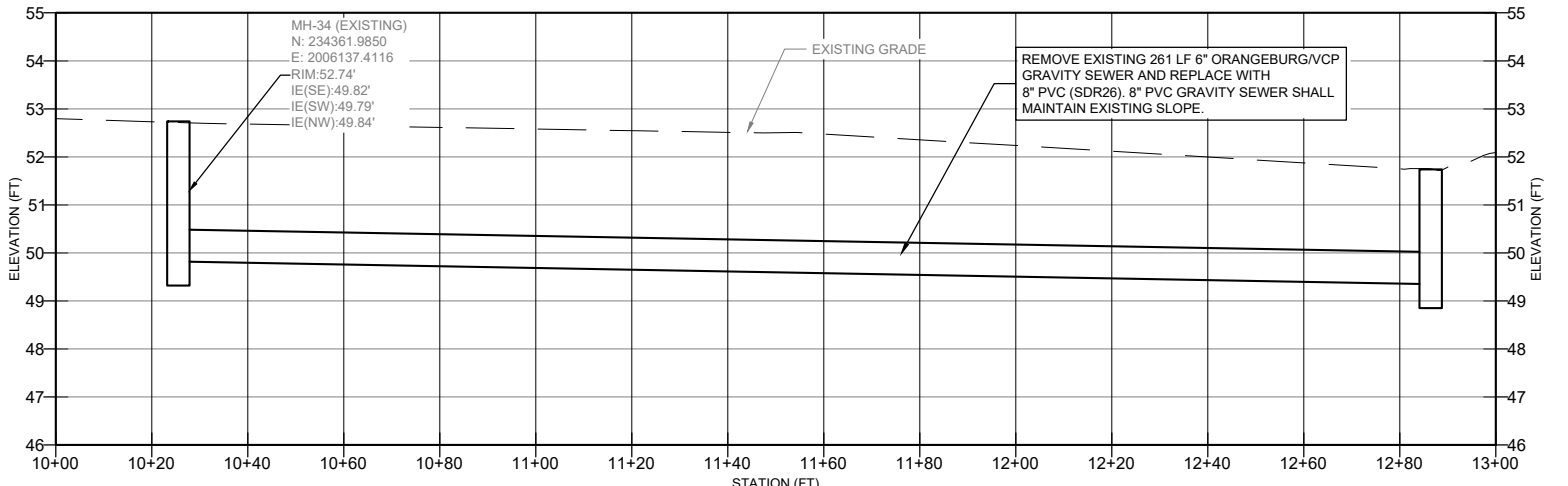
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C-1

- NOTES:**
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LEGEND:	DESCRIPTION
⊙	- DENOTES EXISTING MANHOLE
— SAN —	- DENOTES EXISTING SANITARY SEWER PIPE
— WAT —	- DENOTES EXISTING WATER MAIN
□	- DENOTES SILT FENCE (347 LF TOTAL)
▨	- DENOTES MILL AND RESURFACE 1-1/2" COMPACTED SCDOT TYPE "C" ASPHALT (1270 SY)
▩	- DENOTES ASPHALT REPAIR (182 SY)
—	- DENOTES SEWER LATERAL CONNECTION RESTORATION
---	- DENOTES RIGHT-OF-WAY (ROW) LIMITS



PROPOSED SANITARY PROFILE FROM STA:10+00.00 TO STA: 13+00.00



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TOWN OF RIDGELAND
CDBG WATER AND SEWER IMPROVEMENTS

PROPOSED IMPROVEMENTS - SEWER

TOWN OF RIDGELAND
SOUTH CAROLINA

DESIGN ABB.	DATE	ISSUE
BRH	17-007.44	APRIL 2026
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FOUR WATERS ENGINEERING

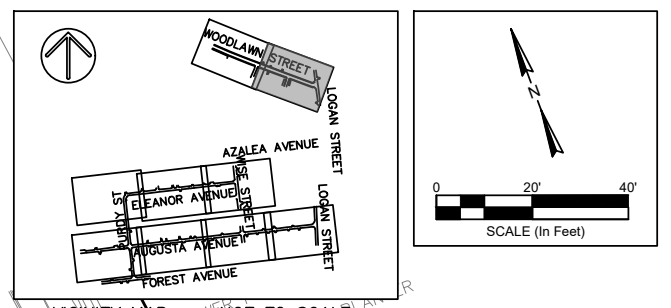
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C-2

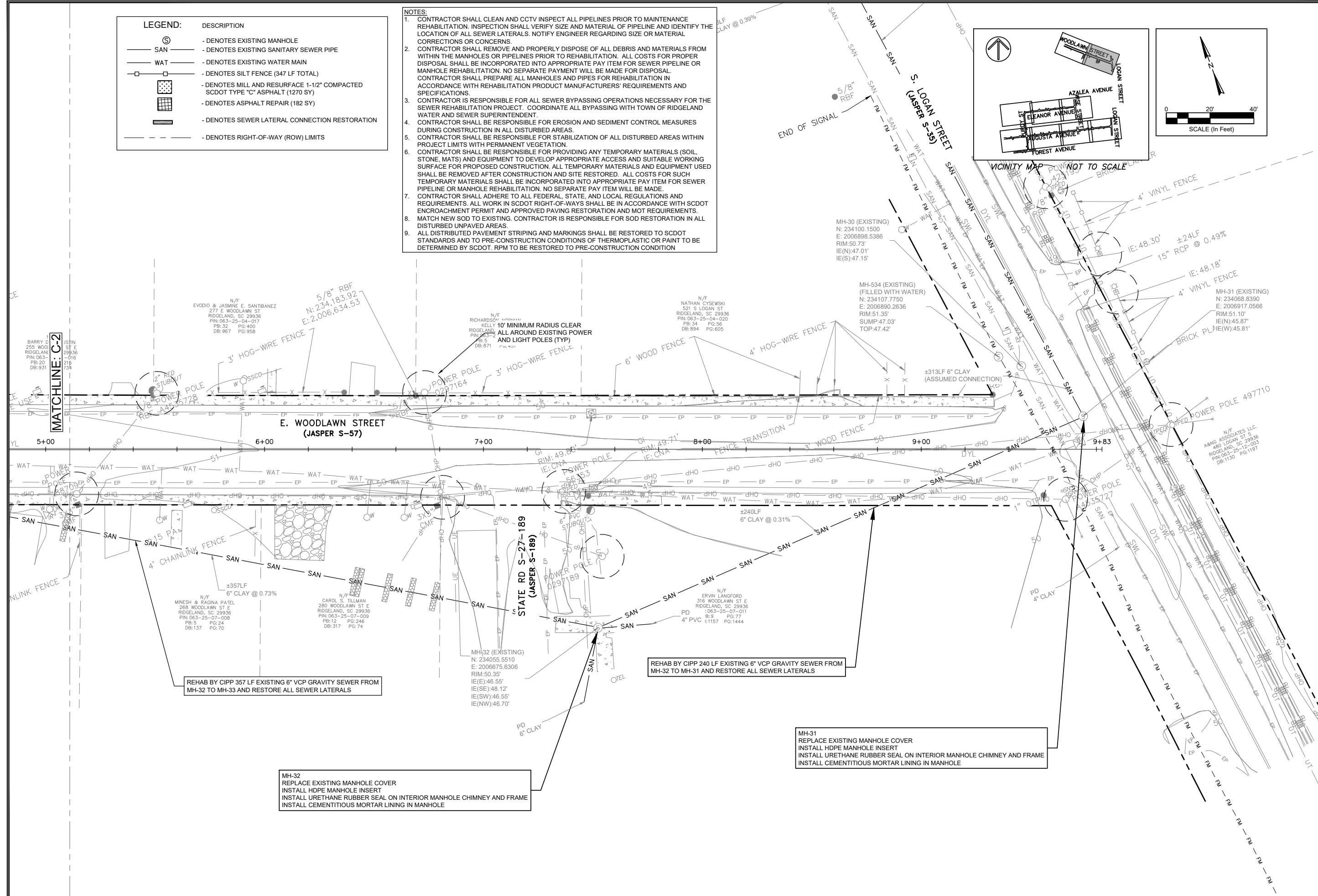
LEGEND:

SYMBOL	DESCRIPTION
⊙	- DENOTES EXISTING MANHOLE
— SAN —	- DENOTES EXISTING SANITARY SEWER PIPE
— WAT —	- DENOTES EXISTING WATER MAIN
— [] —	- DENOTES SILT FENCE (347 LF TOTAL)
[]	- DENOTES MILL AND RESURFACE 1-1/2" COMPACTED SCOTD TYPE "C" ASPHALT (1270 SY)
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[]	- DENOTES SEWER LATERAL CONNECTION RESTORATION
---	- DENOTES RIGHT-OF-WAY (ROW) LIMITS

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ANGELA B. BRYAN
 REGISTERED PROFESSIONAL ENGINEER
 No. 21839
 SOUTH CAROLINA
 ENGINEERING, INC.
 No. 5166
 CREATED BY: ANGELA B. BRYAN
 DATE: 4/22/2026



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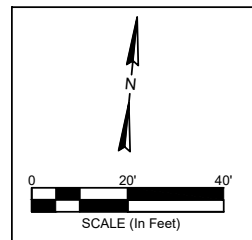
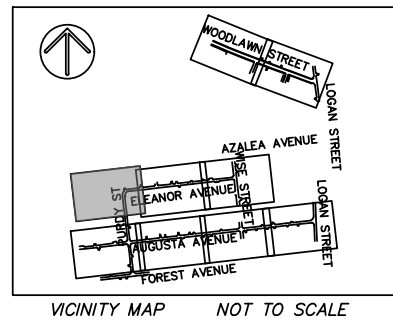
PROPOSED IMPROVEMENTS - SEWER

DESIGN ABB.	DATE	ISSUE
ABB	17-1007-44	APRIL 2026
		100%

FOUR WATERS ENGINEERING
 324 6th AVE. N. JACKSONVILLE BEACH, FLORIDA 32250
 844-414-2400 S.C. COA # 5166 WWW.4WENG.COM

LEGEND:	DESCRIPTION
⊙	- DENOTES EXISTING MANHOLE
— SAN —	- DENOTES EXISTING SANITARY SEWER PIPE
— WAT —	- DENOTES EXISTING WATER MAIN
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ANGELA B. BRYAN
 No. 21839
 REGISTERED PROFESSIONAL ENGINEER
 SOUTH CAROLINA
 STATE OF AUTHORITY

FOUR WATERS ENGINEERING, INC.
 No. 5166
 REGISTERED PROFESSIONAL ENGINEER
 SOUTH CAROLINA
 STATE OF AUTHORITY

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TOWN OF RIDGELAND
 CDBG WATER AND SEWER IMPROVEMENTS

PROPOSED IMPROVEMENTS - SEWER

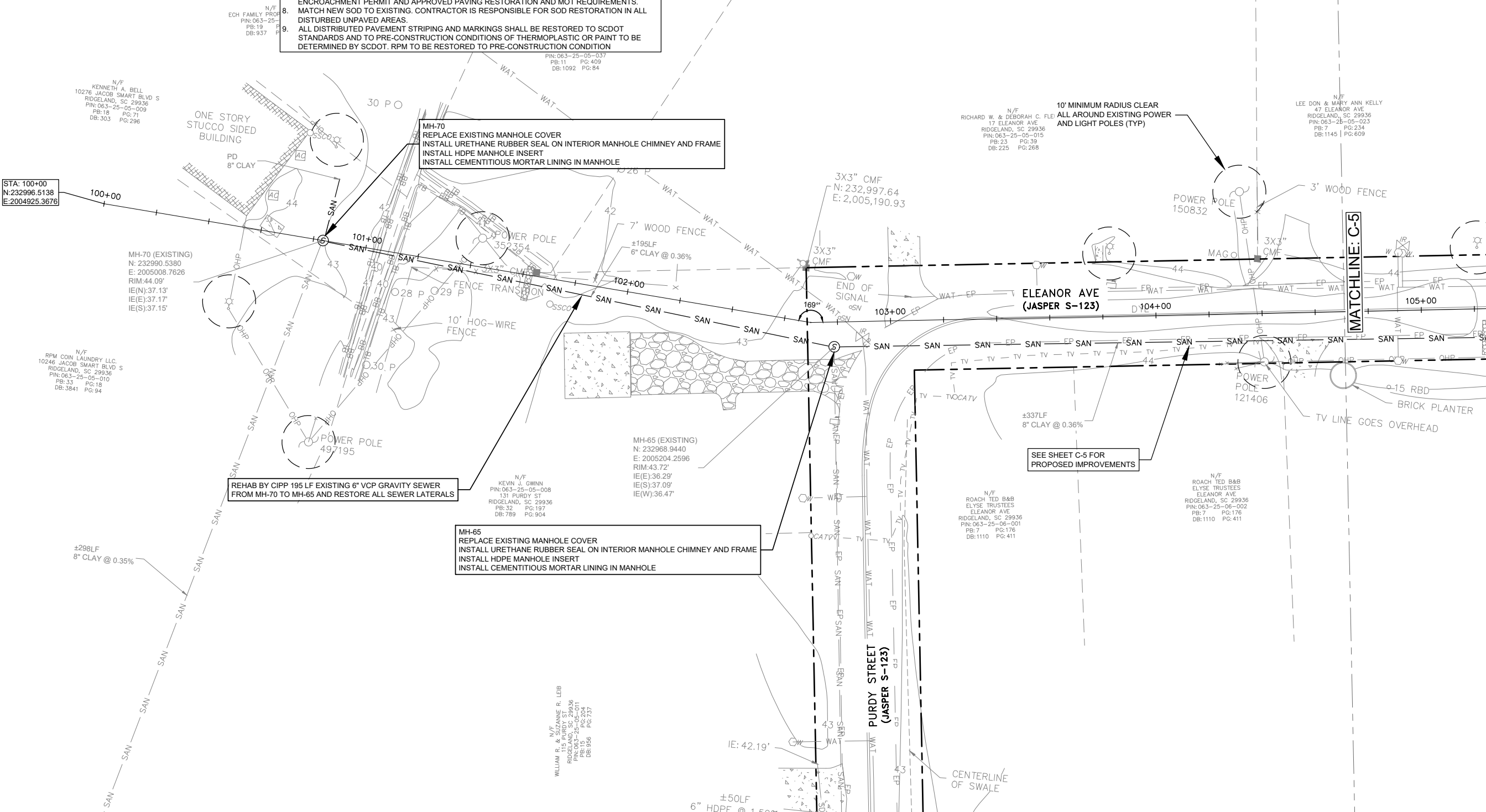
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DRAWING NUMBER
C-4



N/F
 KENNETH A. BELL
 10276 JACOB SMART BLVD S
 RIDGELAND, SC 29936
 PIN: 063-25-05-009
 PB: 18 PG: 71
 DB: 303 PG: 296

N/F
 RPM COIN LAUNDRY LLC
 10246 JACOB SMART BLVD S
 RIDGELAND, SC 29936
 PIN: 063-25-05-010
 PB: 33 PG: 18
 DB: 3841 PG: 94

REHAB BY CIPP 195 LF EXISTING 6" VCP GRAVITY SEWER FROM MH-70 TO MH-65 AND RESTORE ALL SEWER LATERALS

MH-65
 REPLACE EXISTING MANHOLE COVER
 INSTALL URETHANE RUBBER SEAL ON INTERIOR MANHOLE CHIMNEY AND FRAME
 INSTALL HDPE MANHOLE INSERT
 INSTALL CEMENTITIOUS MORTAR LINING IN MANHOLE

MH-70
 REPLACE EXISTING MANHOLE COVER
 INSTALL URETHANE RUBBER SEAL ON INTERIOR MANHOLE CHIMNEY AND FRAME
 INSTALL HDPE MANHOLE INSERT
 INSTALL CEMENTITIOUS MORTAR LINING IN MANHOLE

N/F
 WILLIAM R. & SUZANNE R. LEB
 115 PURDY ST
 RIDGELAND, SC 29936
 PIN: 063-25-05-011
 PB: 15 PG: 204
 DB: 936 PG: 737

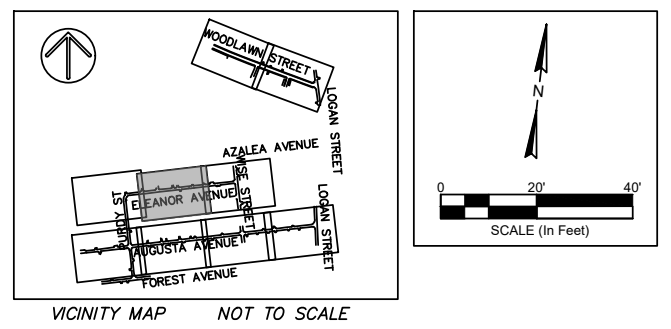
N/F
 RICHARD W. & DEBORAH C. FLE
 17 ELEANOR AVE
 RIDGELAND, SC 29936
 PIN: 063-25-05-015
 PB: 23 PG: 39
 DB: 225 PG: 268

N/F
 LEE DON & MARY ANN KELLY
 47 ELEANOR AVE
 RIDGELAND, SC 29936
 PIN: 063-25-05-023
 PB: 7 PG: 234
 DB: 1145 PG: 609

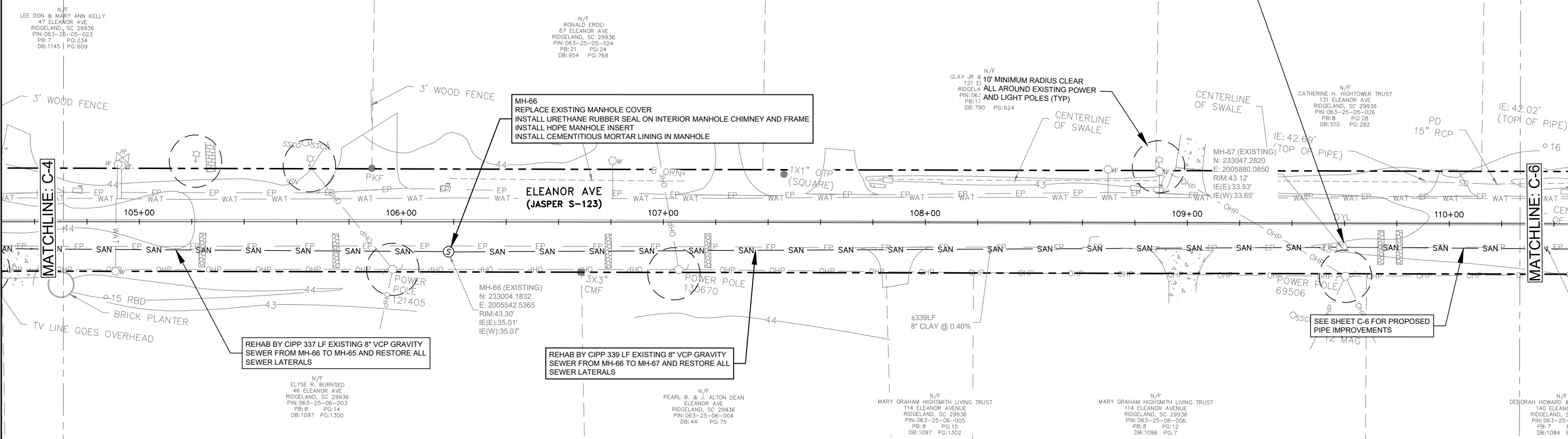
N/F
 ROACH TED B&B
 ELYSE TRUSTEES
 ELEANOR AVE
 RIDGELAND, SC 29936
 PIN: 063-25-06-002
 PB: 7 PG: 176
 DB: 1110 PG: 411

LEGEND:	DESCRIPTION
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	- DENOTES EXISTING SANITARY SEWER PIPE
	- DENOTES EXISTING WATER MAIN
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PROPOSED IMPROVEMENTS - SEWER

TOWN OF RIDGELAND
SOUTH CAROLINA

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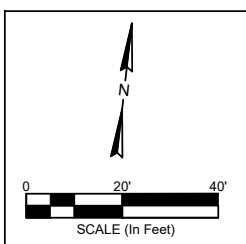
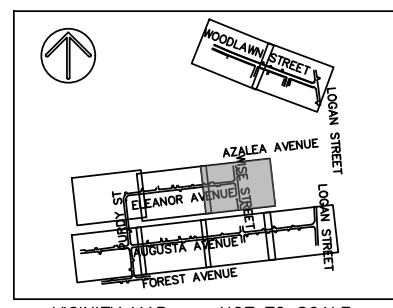
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844-414-2400 S.C. COA # 5166 WWW.FWENG.COM

DRAWING NUMBER
C-5

LEGEND:	DESCRIPTION
⊙	- DENOTES EXISTING MANHOLE
— SAN —	- DENOTES EXISTING SANITARY SEWER PIPE
— WAT —	- DENOTES EXISTING WATER MAIN
□	- DENOTES SILT FENCE (347 LF TOTAL)
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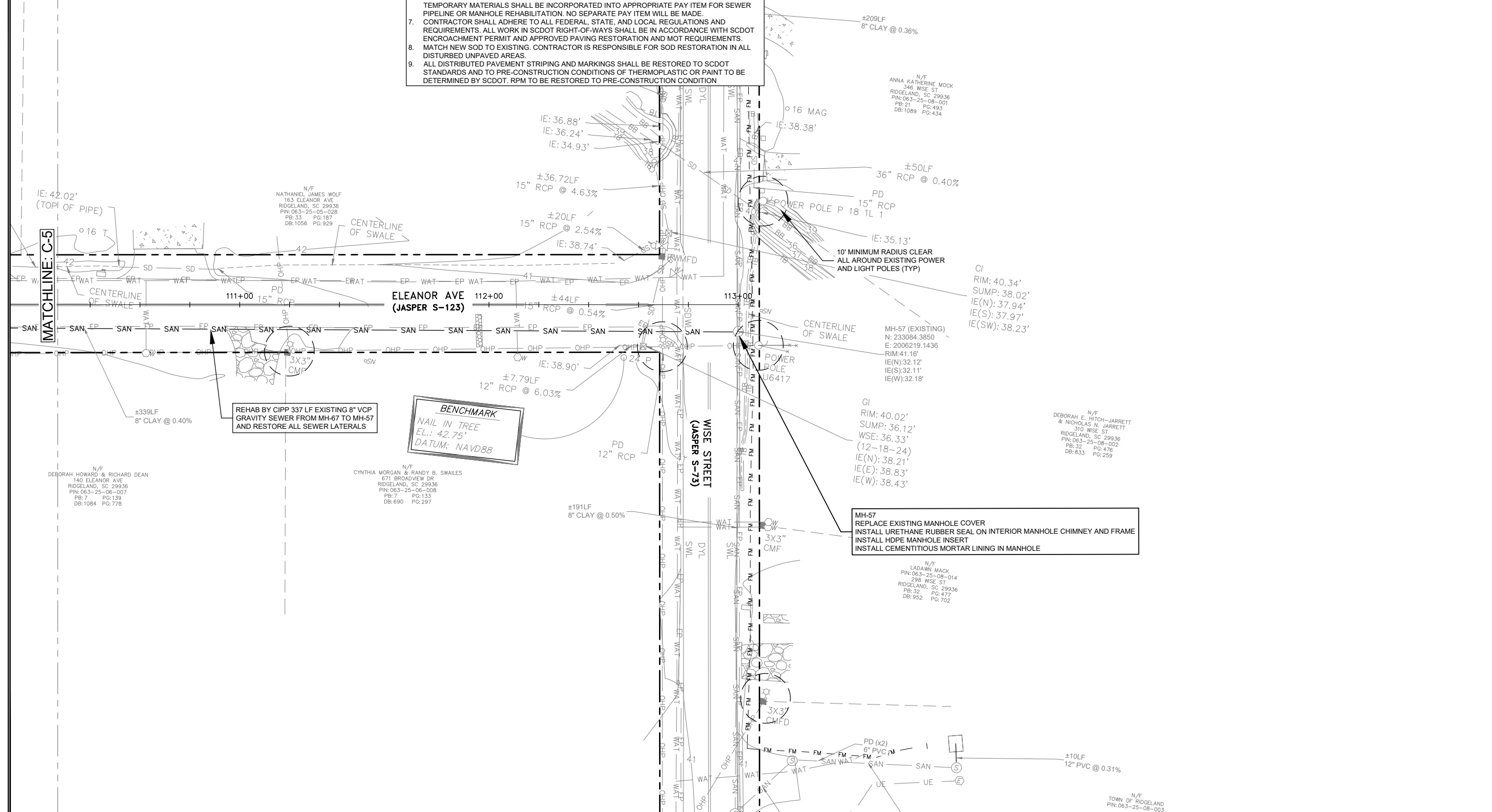
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PROPOSED IMPROVEMENTS - SEWER

DESIGN ABB.	JOB #	ISSUE DATE	ISSUE
ABB	17-1007-44	APRIL 2026	100%

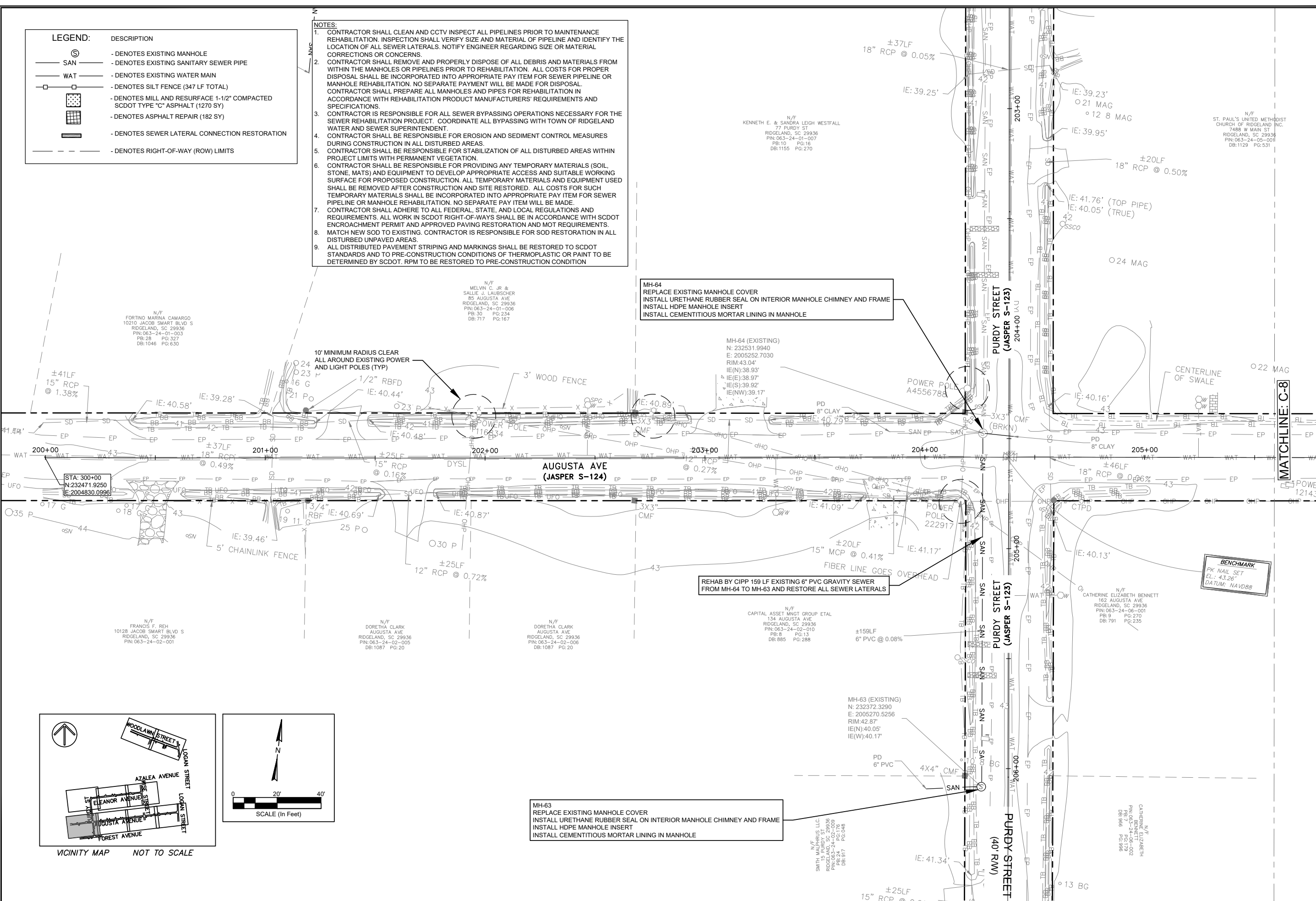


DRAWING NUMBER
C-6



LEGEND:	DESCRIPTION
(S)	- DENOTES EXISTING MANHOLE
— SAN —	- DENOTES EXISTING SANITARY SEWER PIPE
— WAT —	- DENOTES EXISTING WATER MAIN
□	- DENOTES SILT FENCE (347 LF TOTAL)
[Pattern]	- DENOTES MILL AND RESURFACE 1-1/2" COMPACTED SCDOT TYPE "C" ASPHALT (1270 SY)
[Pattern]	- DENOTES ASPHALT REPAIR (182 SY)
—	- DENOTES SEWER LATERAL CONNECTION RESTORATION
---	- DENOTES RIGHT-OF-WAY (ROW) LIMITS

- NOTES:**
- CONTRACTOR SHALL CLEAN AND CCTV INSPECT ALL PIPELINES PRIOR TO MAINTENANCE REHABILITATION. INSPECTION SHALL VERIFY SIZE AND MATERIAL OF PIPELINE AND IDENTIFY THE LOCATION OF ALL SEWER LATERALS. NOTIFY ENGINEER REGARDING SIZE OR MATERIAL CORRECTIONS OR CONCERNS.
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PROFESSIONAL ENGINEER
 No. 21839
 ANGELA B. BRYAN
 SOUTH CAROLINA
 REGISTERED PROFESSIONAL ENGINEER

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FOUR WATERS ENGINEERING, INC.
 No. 5166
 CREATED BY: [Signature]
 DATE: [Date]

REV. NO.	DATE	DESCRIPTION
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TOWN OF RIDGELAND
 CDBG WATER AND SEWER IMPROVEMENTS

PROPOSED IMPROVEMENTS - SEWER

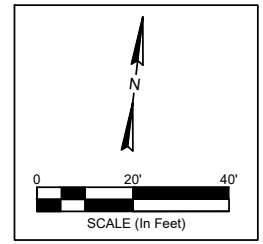
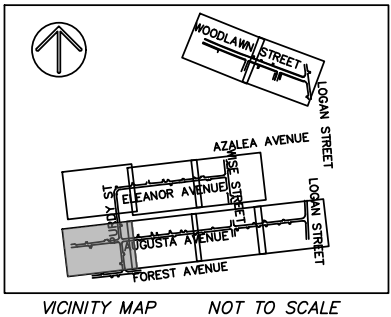
TOWN OF RIDGELAND
 SOUTH CAROLINA

DESIGN ABB.	DATE	ISSUE	ISSUE
ABB	17-007.44	APRIL 2026	100%

FOUR WATERS ENGINEERING

324 6th AVE. N. JACKSONVILLE BEACH, FLORIDA 32250
 844-414-2400 S.C. COA # 5166 WWW.4WENG.COM

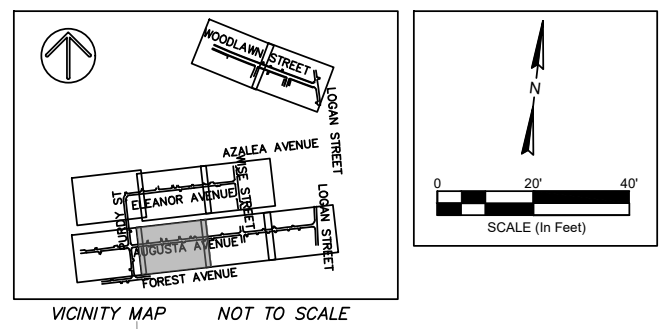
DRAWING NUMBER
C-7



LEGEND:

DESCRIPTION	DESCRIPTION
	- DENOTES EXISTING MANHOLE
	- DENOTES EXISTING SANITARY SEWER PIPE
	- DENOTES EXISTING WATER MAIN
	- DENOTES SILT FENCE (347 LF TOTAL)
	- DENOTES MILL AND RESURFACE 1-1/2" COMPACTED SCDOT TYPE "C" ASPHALT (1270 SY)
	- DENOTES ASPHALT REPAIR (182 SY)
	- DENOTES SEWER LATERAL CONNECTION RESTORATION
	- DENOTES RIGHT-OF-WAY (ROW) LIMITS

- NOTES:**
- CONTRACTOR SHALL CLEAN AND CCTV INSPECT ALL PIPELINES PRIOR TO MAINTENANCE REHABILITATION. INSPECTION SHALL VERIFY SIZE AND MATERIAL OF PIPELINE AND IDENTIFY THE LOCATION OF ALL SEWER LATERALS. NOTIFY ENGINEER REGARDING SIZE OR MATERIAL CORRECTIONS OR CONCERNS.
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PROFESSIONAL ENGINEER
 No. 21839
 ANGELA B. BRYAN
 SOUTH CAROLINA
 REGISTERED PROFESSIONAL ENGINEER

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FOUR WATERS ENGINEERING, INC.
 No. 5166
 CREATED BY: [Signature]
 STATE OF SOUTH CAROLINA

N/F
 L'S UNITED METHODIST
 488 W MAIN ST
 RIDGELAND, SC 29936
 PIN: 063-24-05-001
 PB: 1129 PG: 531

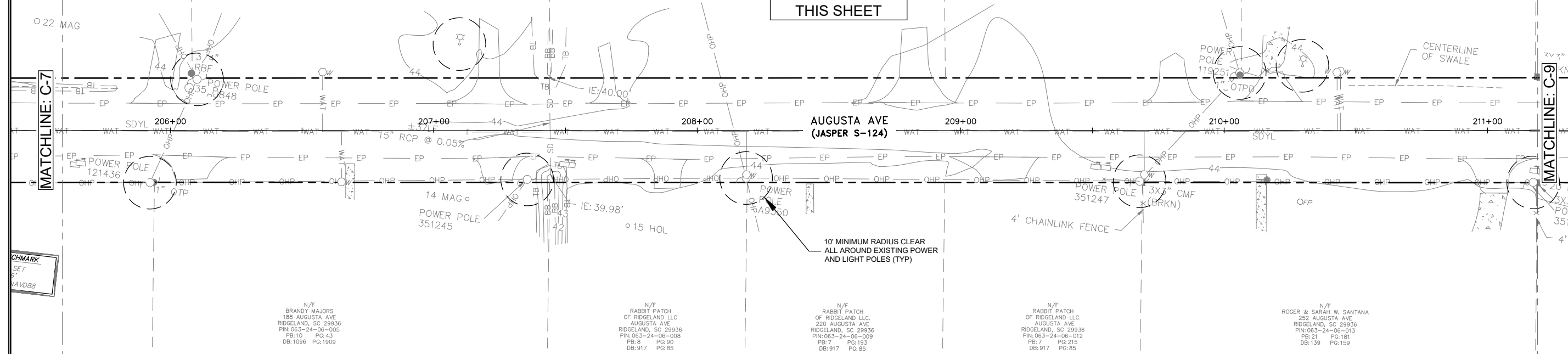
N/F
 GERALDINE M. JONES
 191 AUGUSTA AVE
 RIDGELAND, SC 29936
 PIN: 063-24-05-002
 PB: 27 PG: 191
 DB: 63 PG: 186

& COLETTE R. OLIVER
 217 AUGUSTA AVE
 RIDGELAND, SC 29936
 PIN: 063-24-05-003
 PB: 9 PG: 13
 DB: 800 PG: 965

N/F
 JUAREZ FAMILY TRUST
 PIN: 063-24-05-004
 241 AUGUSTA AVE
 RIDGELAND, SC 29936
 PB: 19 PG: 333
 DB: 1162 PG: 669

N/F
 JONATHAN R. &
 CONSTANCE COLE
 263 AUGUSTA AVE
 RIDGELAND, SC 29936
 PIN: 063-24-05-005
 DB: 296 PG: 100

**NO SEWER WORK
 THIS SHEET**



N/F
 BRANDY MAJORS
 188 AUGUSTA AVE
 RIDGELAND, SC 29936
 PIN: 063-24-06-005
 PB: 10 PG: 43
 DB: 1096 PG: 1909

N/F
 RABBIT PATCH
 OF RIDGELAND LLC
 AUGUSTA AVE
 RIDGELAND, SC 29936
 PIN: 063-24-06-008
 PB: 8 PG: 90
 DB: 917 PG: 85

N/F
 RABBIT PATCH
 OF RIDGELAND LLC
 220 AUGUSTA AVE
 RIDGELAND, SC 29936
 PIN: 063-24-06-012
 PB: 7 PG: 193
 DB: 917 PG: 85

N/F
 RABBIT PATCH
 OF RIDGELAND LLC
 AUGUSTA AVE
 RIDGELAND, SC 29936
 PIN: 063-24-06-012
 PB: 7 PG: 215
 DB: 917 PG: 85

N/F
 ROGER & SARAH W. SANTANA
 252 AUGUSTA AVE
 RIDGELAND, SC 29936
 PIN: 063-24-06-013
 PB: 21 PG: 181
 DB: 139 PG: 159

CHMARK
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 11/1/08

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TOWN OF RIDGELAND
 CDBG WATER AND SEWER IMPROVEMENTS

PROPOSED IMPROVEMENTS - SEWER

TOWN OF RIDGELAND
 SOUTH CAROLINA

DESIGN	ABB	JOB #	ISSUE	DATE	ISSUE
BRH	ABB	17-1007.44	APRIL	2026	100%

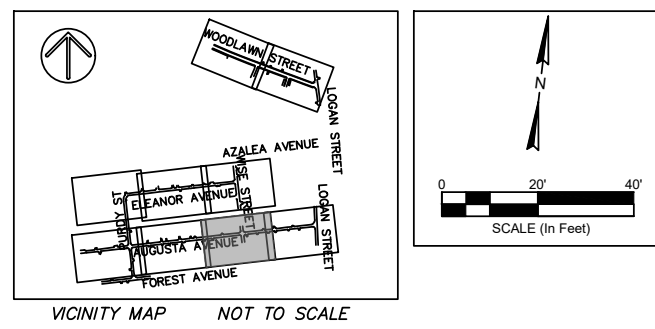
FOUR WATERS ENGINEERING

324 6th AVE. N. JACKSONVILLE BEACH, FLORIDA 32250
 844-414-2400 S.C. COA # 5166 WWW.FWENG.COM

DRAWING NUMBER
C-8

LEGEND:	DESCRIPTION
	- DENOTES EXISTING MANHOLE
	- DENOTES EXISTING SANITARY SEWER PIPE
	- DENOTES EXISTING WATER MAIN
	- DENOTES SILT FENCE (347 LF TOTAL)
	- DENOTES MILL AND RESURFACE 1-1/2" COMPACTED SCDOT TYPE "C" ASPHALT (1270 SY)
	- DENOTES ASPHALT REPAIR (182 SY)
	- DENOTES SEWER LATERAL CONNECTION RESTORATION
	- DENOTES RIGHT-OF-WAY (ROW) LIMITS

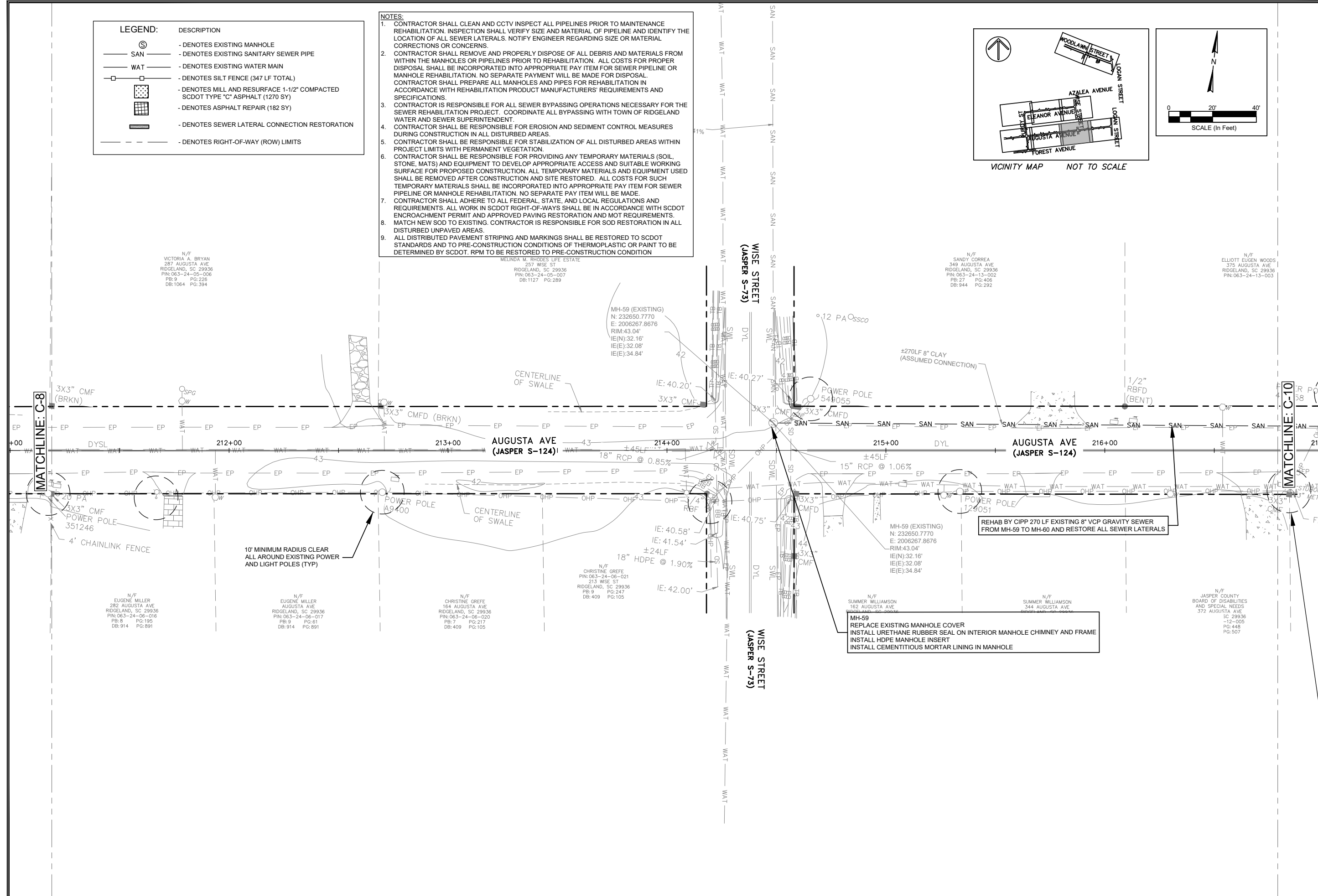
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ANGELA B. BRYAN
No. 21839
SOUTH CAROLINA
REGISTERED PROFESSIONAL ENGINEER

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FOUR WATERS ENGINEERING, INC.
No. 5166
SOUTH CAROLINA
REGISTERED PROFESSIONAL ENGINEER



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TOWN OF RIDGELAND
CDBG WATER AND SEWER IMPROVEMENTS

PROPOSED IMPROVEMENTS - SEWER

REHAB BY CIPP 270 LF EXISTING 8" VCP GRAVITY SEWER FROM MH-59 TO MH-60 AND RESTORE ALL SEWER LATERALS

REHAB BY CIPP 270 LF EXISTING 8" VCP GRAVITY SEWER FROM MH-59 TO MH-60 AND RESTORE ALL SEWER LATERALS

DESIGN	ABB	JOB #	ISSUE DATE	ISSUE
BRH	ABB	17-1007-44	APRIL 2026	100%

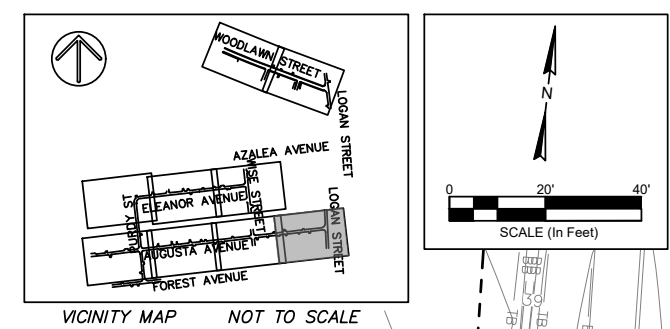
FOUR WATERS ENGINEERING

324 6th AVE. N. JACKSONVILLE BEACH, FLORIDA 32250
844-414-2400 S.C. COA # 5166 WWW.FWENG.COM

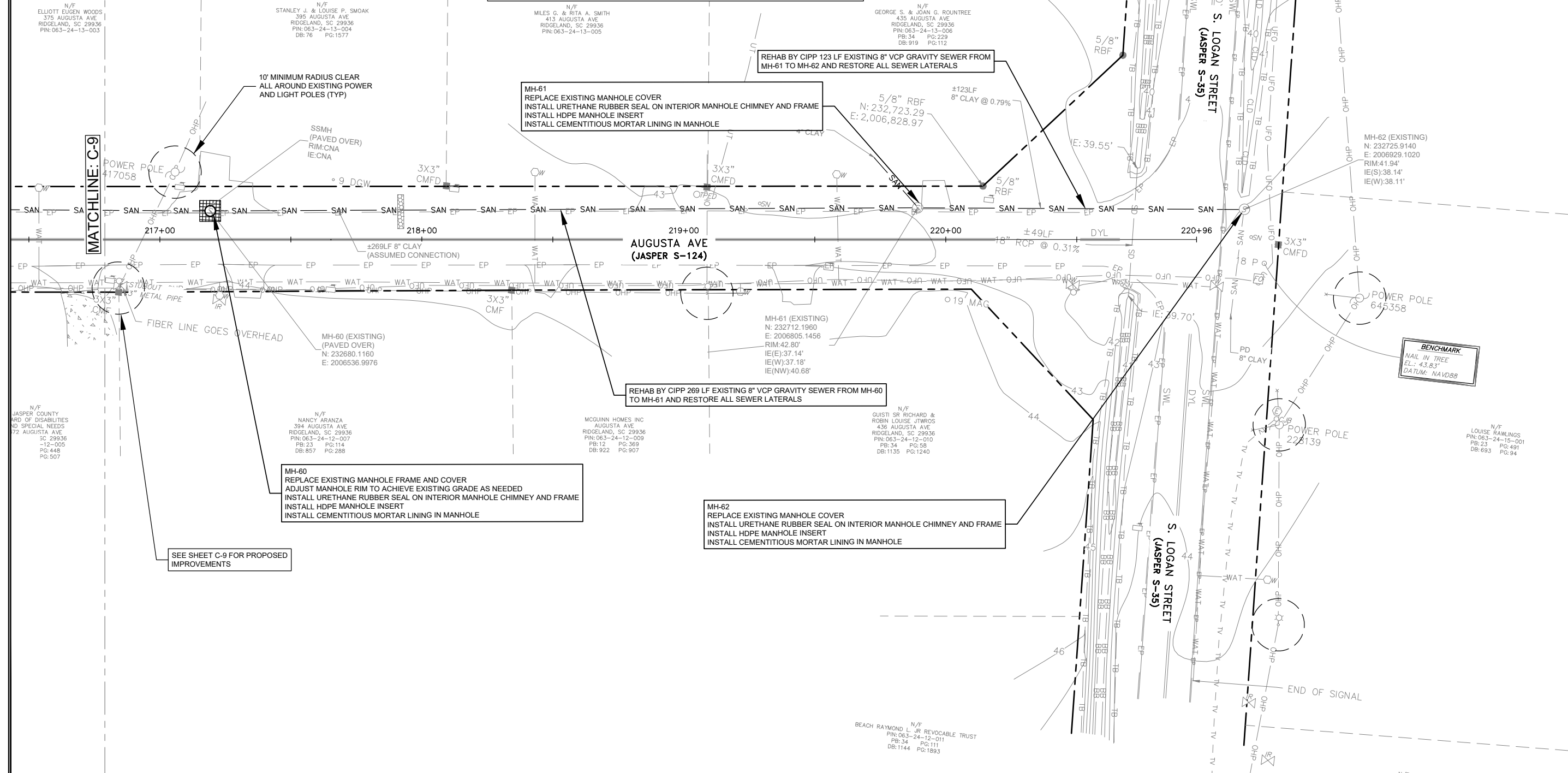
DRAWING NUMBER
C-9

LEGEND:	DESCRIPTION
	- DENOTES EXISTING MANHOLE
	- DENOTES EXISTING SANITARY SEWER PIPE
	- DENOTES EXISTING WATER MAIN
	- DENOTES SILT FENCE (347 LF TOTAL)
	- DENOTES MILL AND RESURFACE 1-1/2" COMPACTED SCDOT TYPE "C" ASPHALT (1270 SY)
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ANGELA B. BRYAN
No. 21839
REGISTERED PROFESSIONAL ENGINEER
SOUTH CAROLINA
FOUR WATERS ENGINEERING, INC.
No. 5166
REGISTERED PROFESSIONAL ENGINEER
SOUTH CAROLINA



REV. NO.	DATE	DESCRIPTION
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TOWN OF RIDGELAND
CDBG WATER AND SEWER IMPROVEMENTS

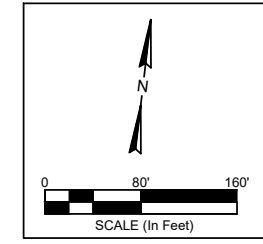
PROPOSED IMPROVEMENTS - SEWER

TOWN OF RIDGELAND
SOUTH CAROLINA

DESIGN ABB.	DATE	ISSUE	ISSUE
BRH	17-007.44	APRIL 2026	100%

FOUR WATERS ENGINEERING
324 6th AVE. N. JACKSONVILLE BEACH, FLORIDA 32250
844-414-2400 S.C. COA # 5166 WWW.FWENG.COM

DRAWING NUMBER
C-10



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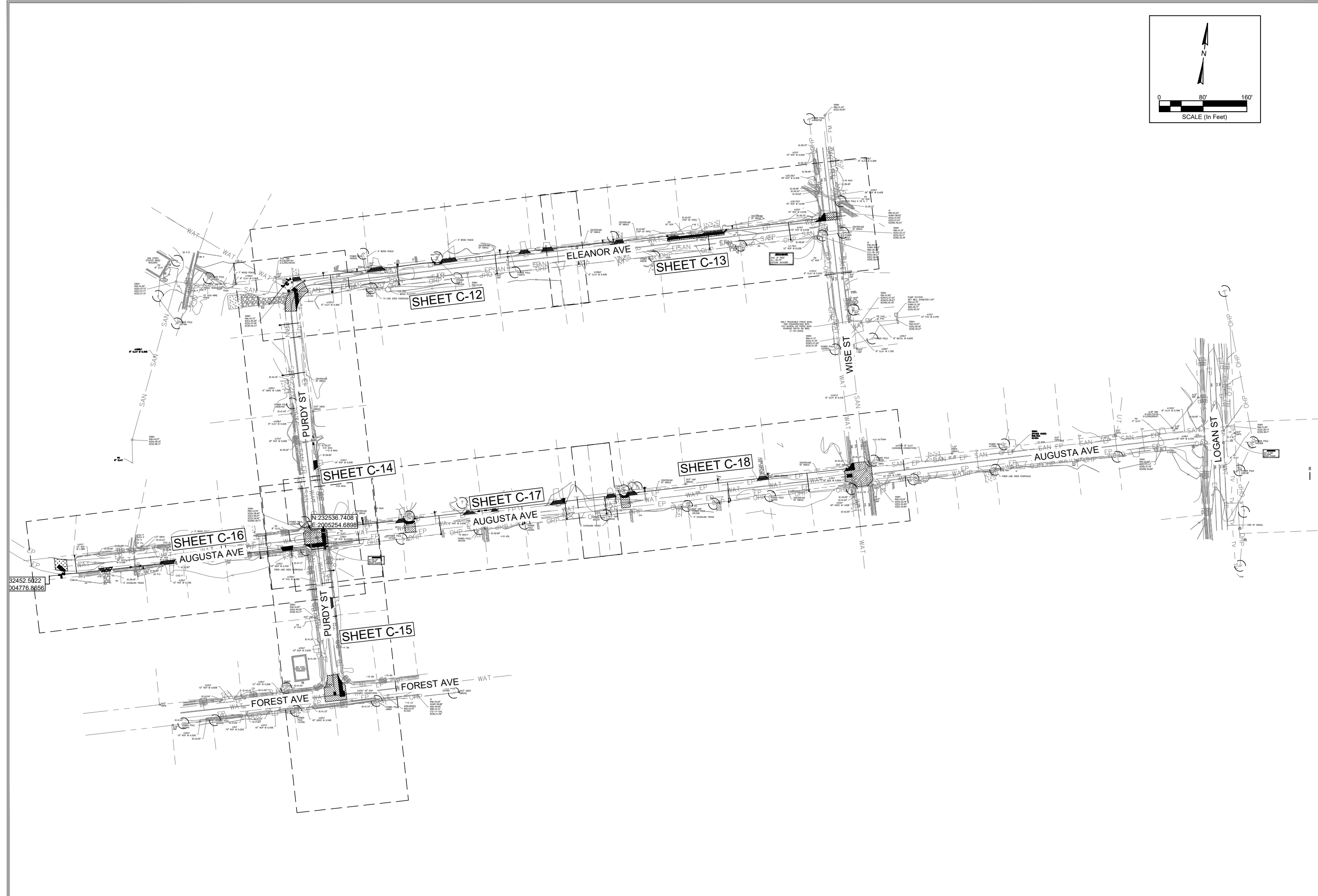
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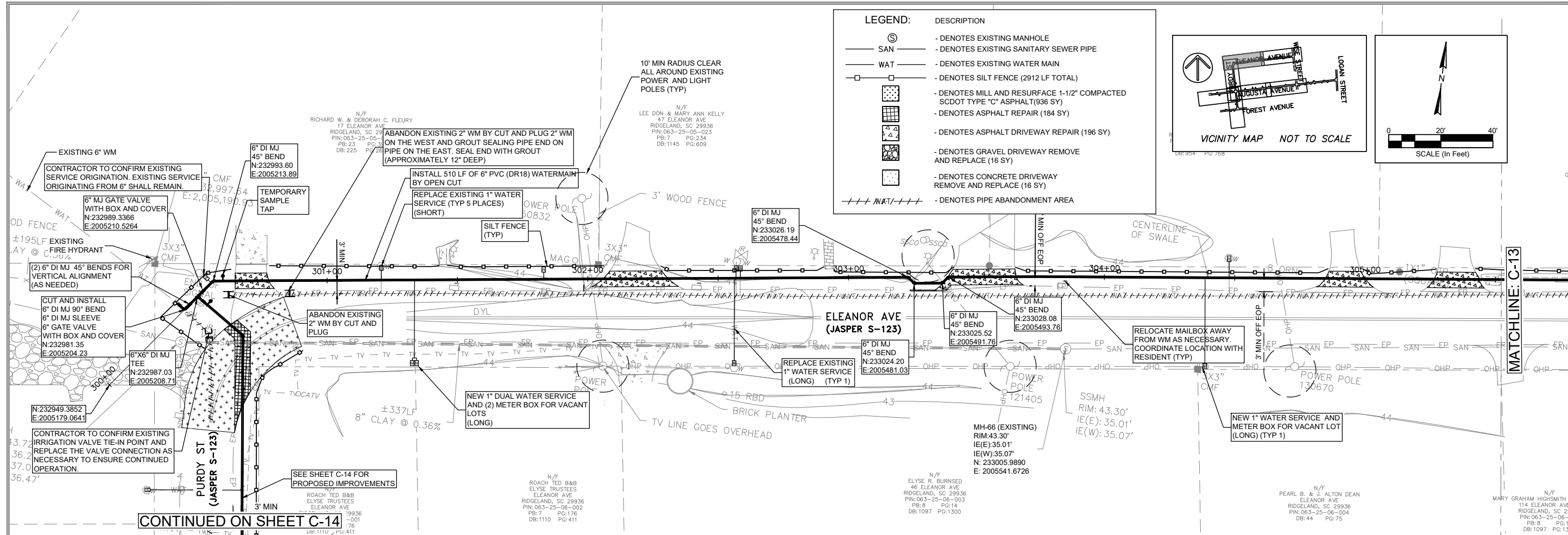
TOWN OF RIDGELAND
 CDBG WATER AND SEWER IMPROVEMENTS
PROPOSED IMPROVEMENTS - WATER KEYMAP
 TOWN OF RIDGELAND
 SOUTH CAROLINA

DESIGN ABB	DRAWN BRH	JOB #	ISSUE DATE	ISSUE
		17-1007-44	APRIL 2026	100%

FOUR WATERS ENGINEERING
 324 6th AVE. N. JACKSONVILLE BEACH, FLORIDA 32250
 844-414-2400 S.C. COA # 5166 WWW.FWENG.COM

DRAWING NUMBER
C-11





ANGELA B. BRYAN
No. 21839
REGISTERED PROFESSIONAL ENGINEER
SOUTH CAROLINA
FOUR WATERS ENGINEERING, INC.
No. 5166
CREATED BY AUTOCAD

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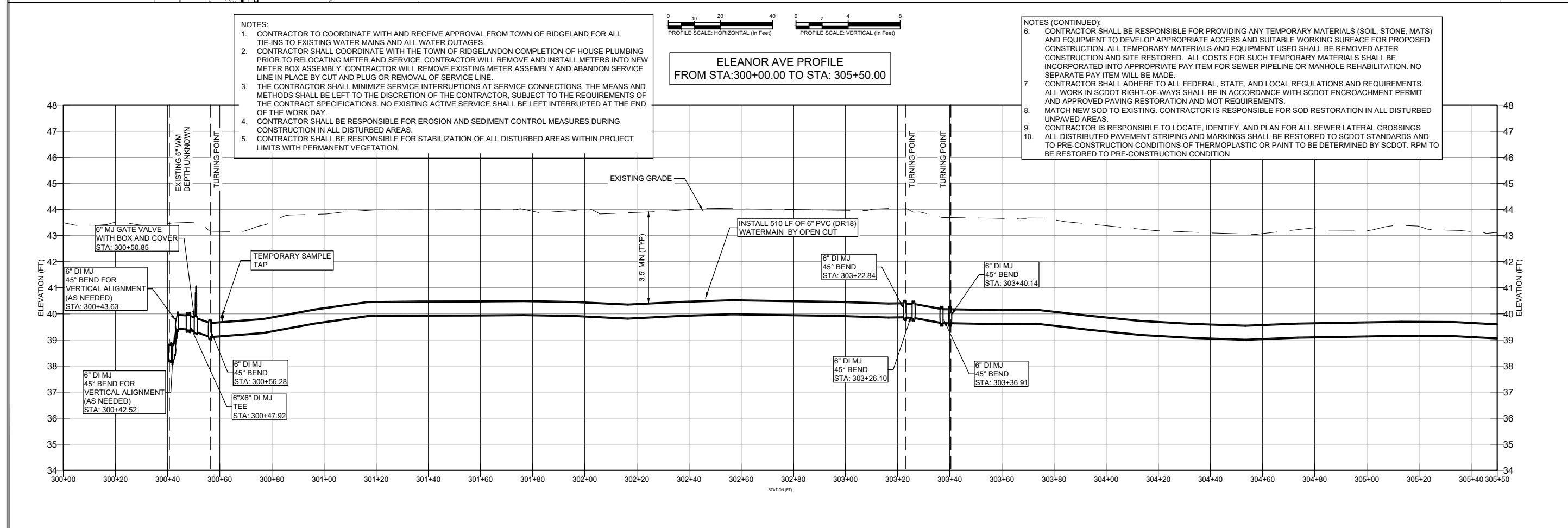
TOWN OF RIDGELAND
CDBG WATER AND SEWER IMPROVEMENTS

PROPOSED IMPROVEMENTS - WATER

DESIGN DRAWN
ABB BRH
JOB # 17-1007.44
ISSUE DATE APRIL 2026
ISSUE 100%

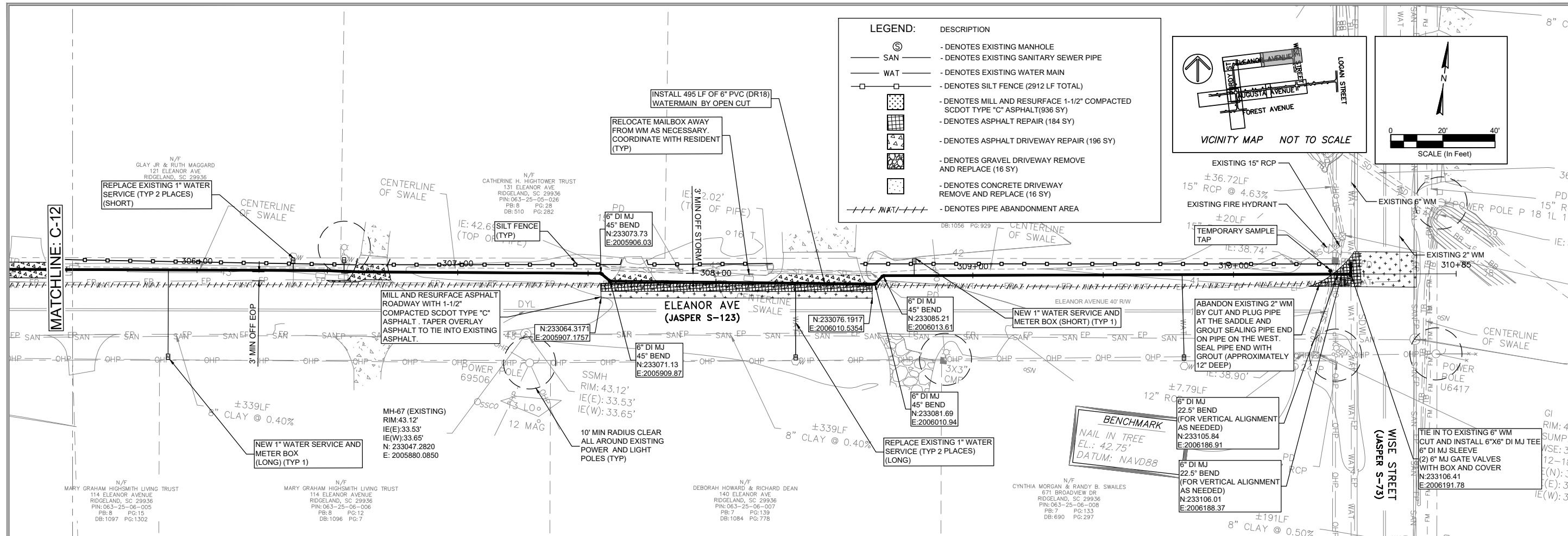
FOUR WATERS ENGINEERING
324 6th AVE. N. JACKSONVILLE BEACH, FLORIDA 32250
844-414-2400 S.C. COA # 5166 WWW.4WENG.COM

DRAWING NUMBER
C-12



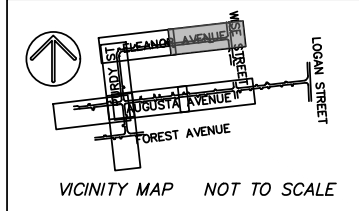
- NOTES:
- CONTRACTOR TO COORDINATE WITH AND RECEIVE APPROVAL FROM TOWN OF RIDGELAND FOR ALL TIE-INS TO EXISTING WATER MAINS AND ALL WATER OUTAGES.
 - CONTRACTOR SHALL COORDINATE WITH THE TOWN OF RIDGELAND ON COMPLETION OF HOUSE PLUMBING PRIOR TO RELOCATING METER AND SERVICE. CONTRACTOR WILL REMOVE AND INSTALL METERS INTO NEW METER BOX ASSEMBLY. CONTRACTOR WILL REMOVE EXISTING METER ASSEMBLY AND ABANDON SERVICE LINE IN PLACE BY CUT AND PLUG OR REMOVAL OF SERVICE LINE.
 - THE CONTRACTOR SHALL MINIMIZE SERVICE INTERRUPTIONS AT SERVICE CONNECTIONS. THE MEANS AND METHODS SHALL BE LEFT TO THE DISCRETION OF THE CONTRACTOR, SUBJECT TO THE REQUIREMENTS OF THE CONTRACT SPECIFICATIONS. NO EXISTING ACTIVE SERVICE SHALL BE LEFT INTERRUPTED AT THE END OF THE WORK DAY.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR EROSION AND SEDIMENT CONTROL MEASURES DURING CONSTRUCTION IN ALL DISTURBED AREAS.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR STABILIZATION OF ALL DISTURBED AREAS WITHIN PROJECT LIMITS WITH PERMANENT VEGETATION.

- NOTES (CONTINUED):
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ANY TEMPORARY MATERIALS (SOIL, STONE, MATS) AND EQUIPMENT TO DEVELOP APPROPRIATE ACCESS AND SUITABLE WORKING SURFACE FOR PROPOSED CONSTRUCTION. ALL TEMPORARY MATERIALS AND EQUIPMENT USED SHALL BE REMOVED AFTER CONSTRUCTION AND SITE RESTORED. ALL COSTS FOR SUCH TEMPORARY MATERIALS SHALL BE INCORPORATED INTO APPROPRIATE PAY ITEM FOR SEWER PIPELINE OR MANHOLE REHABILITATION. NO SEPARATE PAY ITEM WILL BE MADE.
 - CONTRACTOR SHALL ADHERE TO ALL FEDERAL, STATE, AND LOCAL REGULATIONS AND REQUIREMENTS. ALL WORK IN SCDOT RIGHT-OF-WAYS SHALL BE IN ACCORDANCE WITH SCDOT ENCROACHMENT PERMIT AND APPROVED PAVING RESTORATION AND MOT REQUIREMENTS.
 - MATCH NEW SOD TO EXISTING. CONTRACTOR IS RESPONSIBLE FOR SOD RESTORATION IN ALL DISTURBED UNPAVED AREAS.
 - CONTRACTOR IS RESPONSIBLE TO LOCATE, IDENTIFY, AND PLAN FOR ALL SEWER LATERAL CROSSINGS ALL DISTRIBUTED PAVEMENT STRIPING AND MARKINGS SHALL BE RESTORED TO SCDOT STANDARDS AND TO PRE-CONSTRUCTION CONDITIONS OF THERMOPLASTIC OR PAINT TO BE DETERMINED BY SCDOT. RPM TO BE RESTORED TO PRE-CONSTRUCTION CONDITION



LEGEND:

SYMBOL	DESCRIPTION
⊙	- DENOTES EXISTING MANHOLE
— SAN —	- DENOTES EXISTING SANITARY SEWER PIPE
— WAT —	- DENOTES EXISTING WATER MAIN
□	- DENOTES SILT FENCE (2912 LF TOTAL)
[Pattern]	- DENOTES MILL AND RESURFACE 1-1/2" COMPACTED SCDOT TYPE "C" ASPHALT (936 SY)
[Pattern]	- DENOTES ASPHALT REPAIR (184 SY)
[Pattern]	- DENOTES ASPHALT DRIVEWAY REPAIR (196 SY)
[Pattern]	- DENOTES GRAVEL DRIVEWAY REMOVE AND REPLACE (16 SY)
[Pattern]	- DENOTES CONCRETE DRIVEWAY REMOVE AND REPLACE (16 SY)
--- WAT ---	- DENOTES PIPE ABANDONMENT AREA



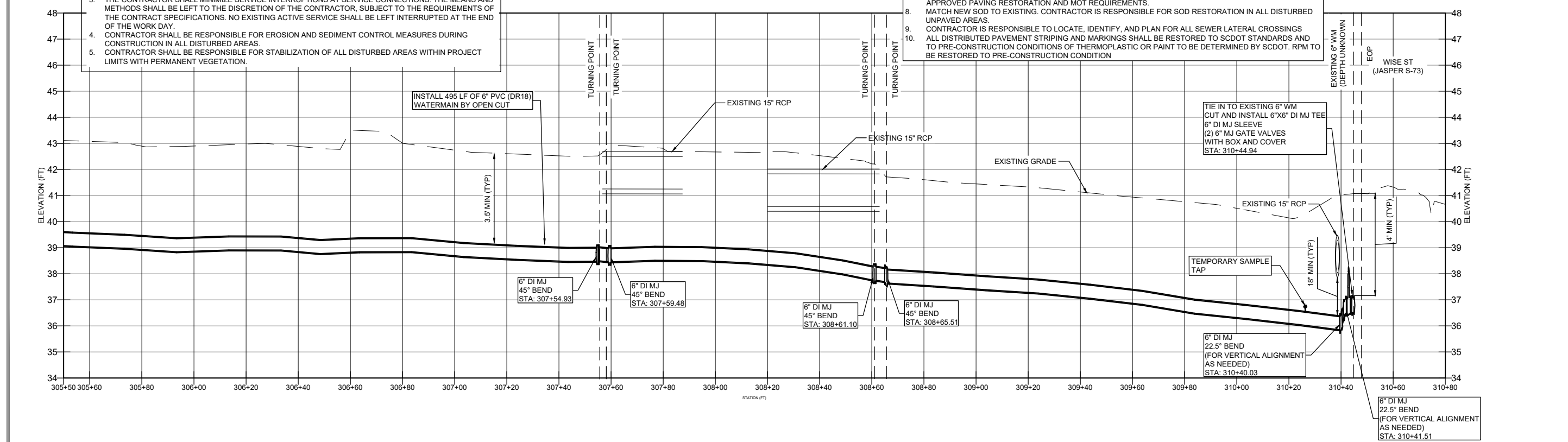
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ANGELA B. BRYAN
No. 21839
SOUTH CAROLINA PROFESSIONAL ENGINEER

FOUR WATERS ENGINEERING, INC.
No. 5166
SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER

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**ELEANOR AVE PROFILE
FROM STA:305+50.00 TO STA: 310+80.00**



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REV. NO.	DATE	DESCRIPTION
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PROPOSED IMPROVEMENTS - WATER

TOWN OF RIDGELAND
CDBG WATER AND SEWER IMPROVEMENTS

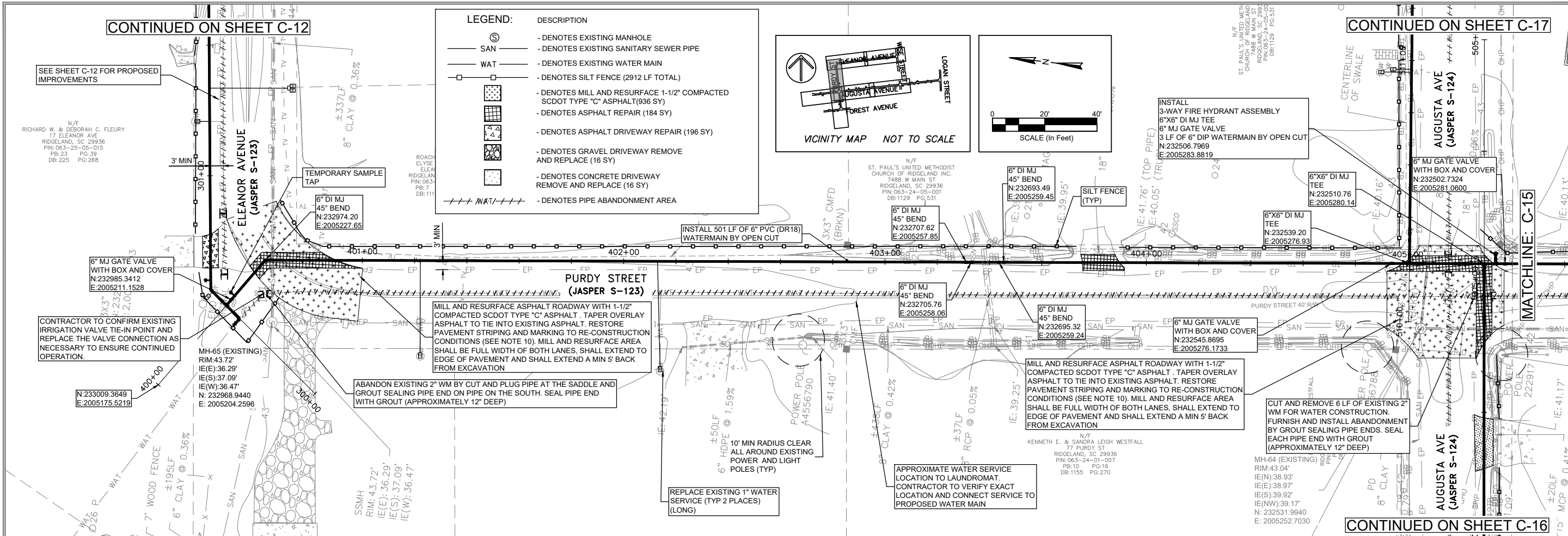
TOWN OF RIDGELAND
SOUTH CAROLINA

DESIGN	ABB	JOB #	ISSUE DATE	ISSUE
BRH	17-1007.44	APRIL 2026	100%	

FOUR WATERS ENGINEERING

324 6th AVE. N. JACKSONVILLE BEACH, FLORIDA 32250
844-414-2400 S.C. COA # 5166 WWW.4WENG.COM

DRAWING NUMBER
C-13



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ANGELA B. BRYAN
No. 21839
REGISTERED PROFESSIONAL ENGINEER
SOUTH CAROLINA
CREATED BY: ANGELA B. BRYAN
No. 5166
FOUR WATERS ENGINEERING, INC.
REGISTERED PROFESSIONAL ENGINEER
SOUTH CAROLINA

REV	DATE	DESCRIPTION
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TOWN OF RIDGELAND
CDBG WATER AND SEWER IMPROVEMENTS

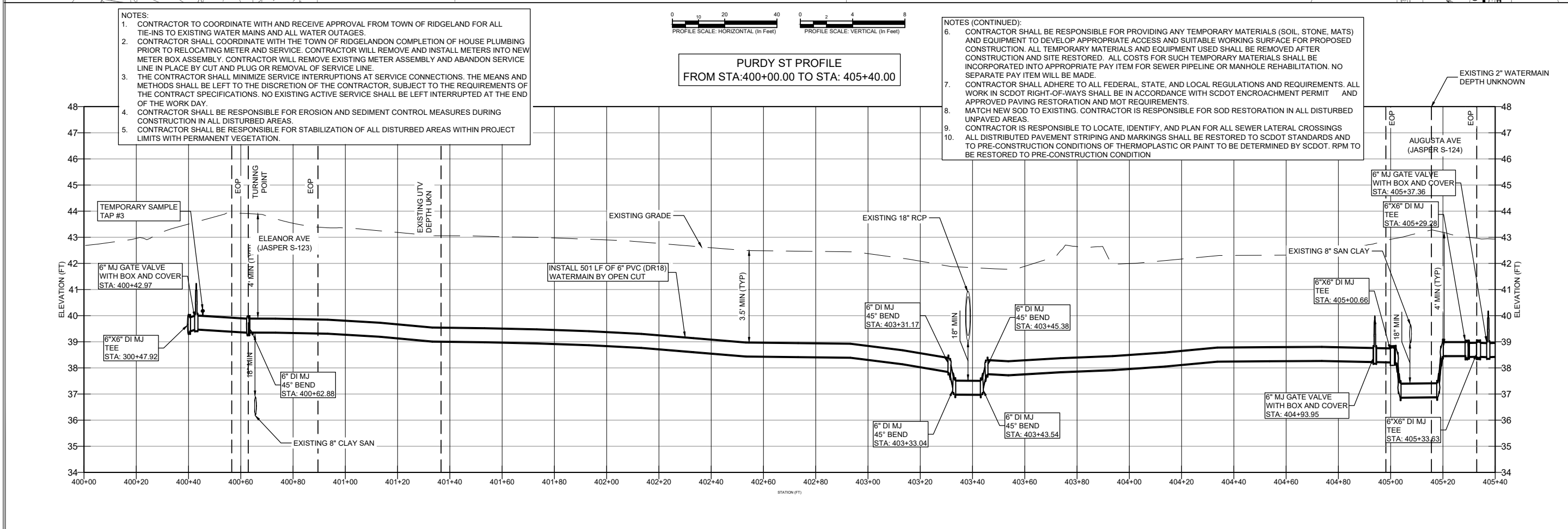
PROPOSED IMPROVEMENTS - WATER

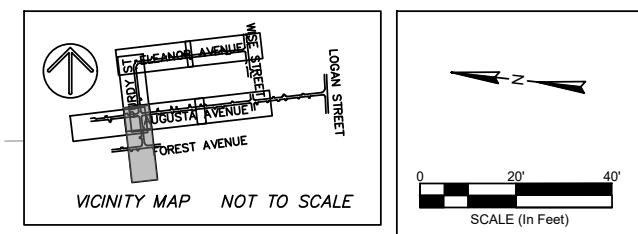
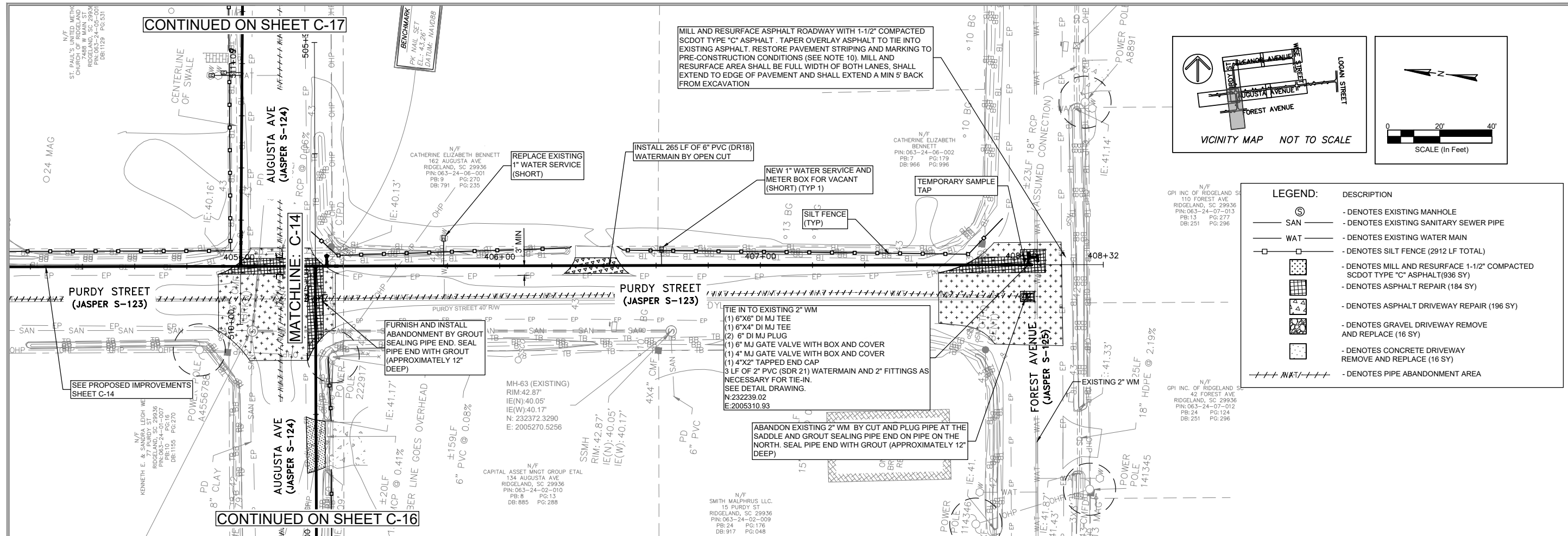
TOWN OF RIDGELAND
SOUTH CAROLINA

DESIGN DRAWN
ABB BRH
JOB # 17-1007.44
ISSUE DATE APRIL 2026
ISSUE 100%

FOUR WATERS ENGINEERING
324 6th AVENUE N., JACKSONVILLE BEACH, FLORIDA 32250
844-414-2400 S.C. COA # 5166 WWW.FWENG.COM

DRAWING NUMBER
C-14





LEGEND:

SYMBOL	DESCRIPTION
⊙	- DENOTES EXISTING MANHOLE
— SAN —	- DENOTES EXISTING SANITARY SEWER PIPE
— WAT —	- DENOTES EXISTING WATER MAIN
□	- DENOTES SILT FENCE (2912 LF TOTAL)
[Pattern]	- DENOTES MILL AND RESURFACE 1-1/2" COMPACTED SCOT TYPE "C" ASPHALT (936 SY)
[Pattern]	- DENOTES ASPHALT DRIVEWAY REPAIR (184 SY)
[Pattern]	- DENOTES ASPHALT DRIVEWAY REMOVE AND REPLACE (16 SY)
[Pattern]	- DENOTES GRAVEL DRIVEWAY REMOVE AND REPLACE (16 SY)
[Pattern]	- DENOTES CONCRETE DRIVEWAY REMOVE AND REPLACE (16 SY)
---/---/---	- DENOTES PIPE ABANDONMENT AREA

ANGELA B. BRYAN
No. 21839
REGISTERED PROFESSIONAL ENGINEER
SOUTH CAROLINA
No. 5166
FOUR WATERS ENGINEERING, INC.
CREATED BY AUTOCAD

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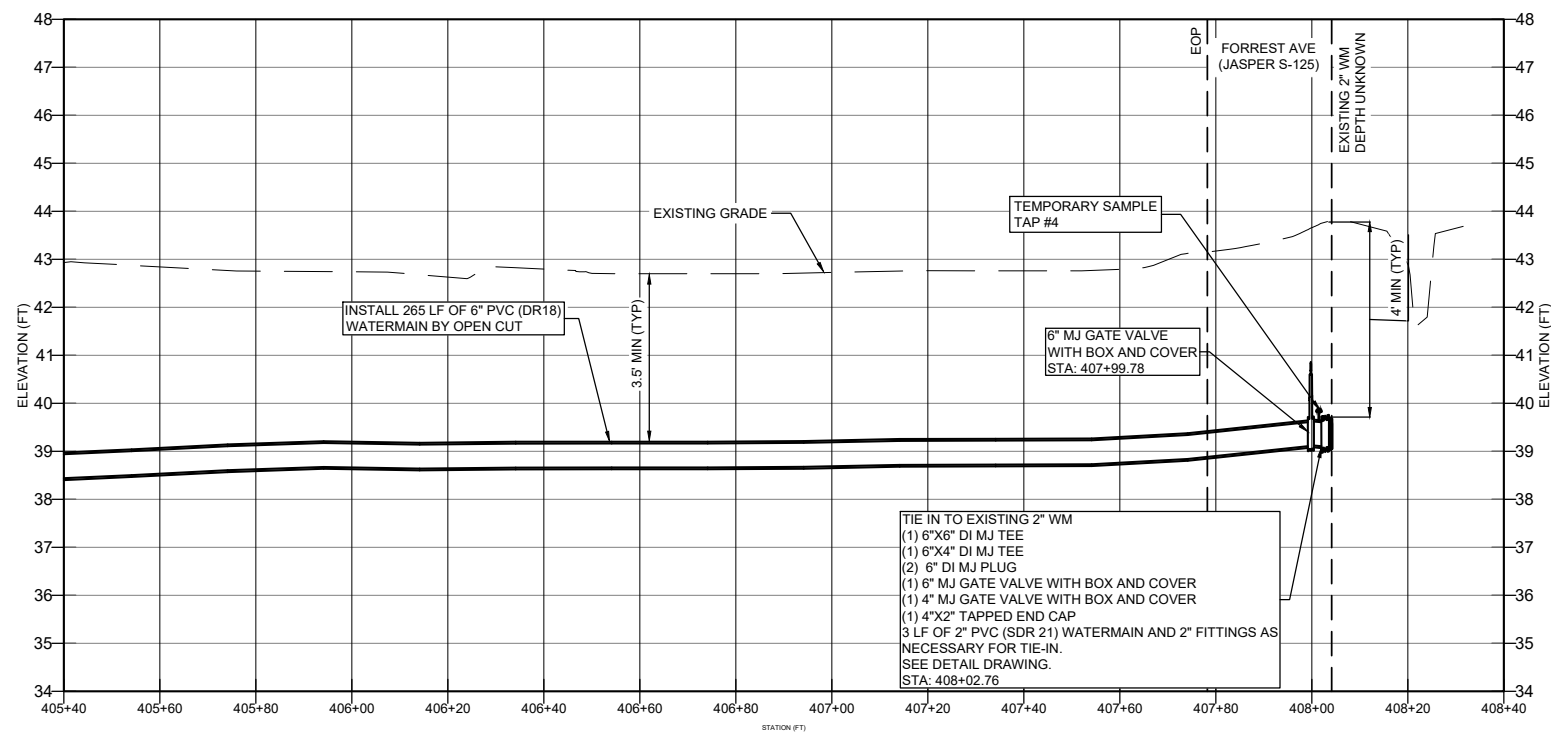
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TOWN OF RIDGELAND
CDBG WATER AND SEWER IMPROVEMENTS

PROPOSED IMPROVEMENTS - WATER

TOWN OF RIDGELAND
SOUTH CAROLINA

**PURDY ST PROFILE
FROM STA: 405+40.00 TO STA: 408+40.00**



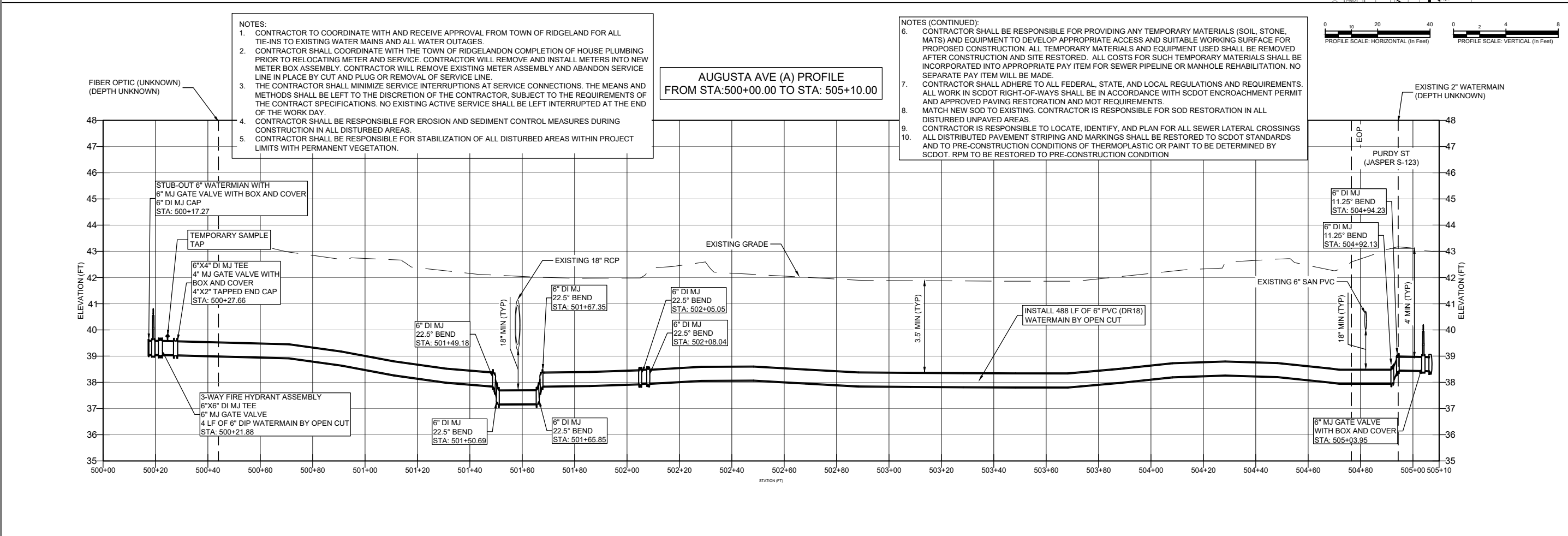
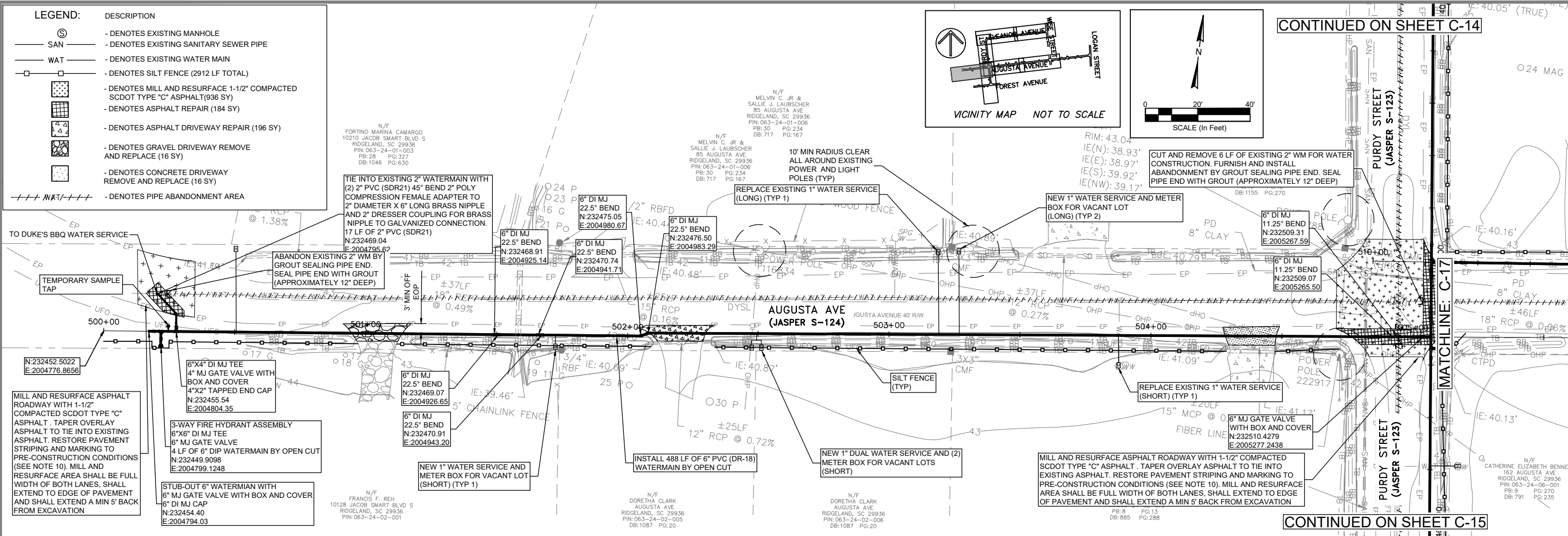
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DESIGN	ABB	BRH	DATE	ISSUE
17-1007-44			APRIL 2026	100%

FOUR WATERS ENGINEERING

324 6th AVE. N. JACKSONVILLE BEACH, FLORIDA 32250
844-414-2400 S.C. COA # 5166 WWW.FWENG.COM

DRAWING NUMBER
C-15



SOUTH CAROLINA PROFESSIONAL ENGINEERING
 No. 21839
 ANGELA B. BRYAN

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FOUR WATERS ENGINEERING, INC.
 No. 5166
 STATE OF SOUTH CAROLINA
 CREATED BY AUTOCAD

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PROPOSED IMPROVEMENTS - WATER

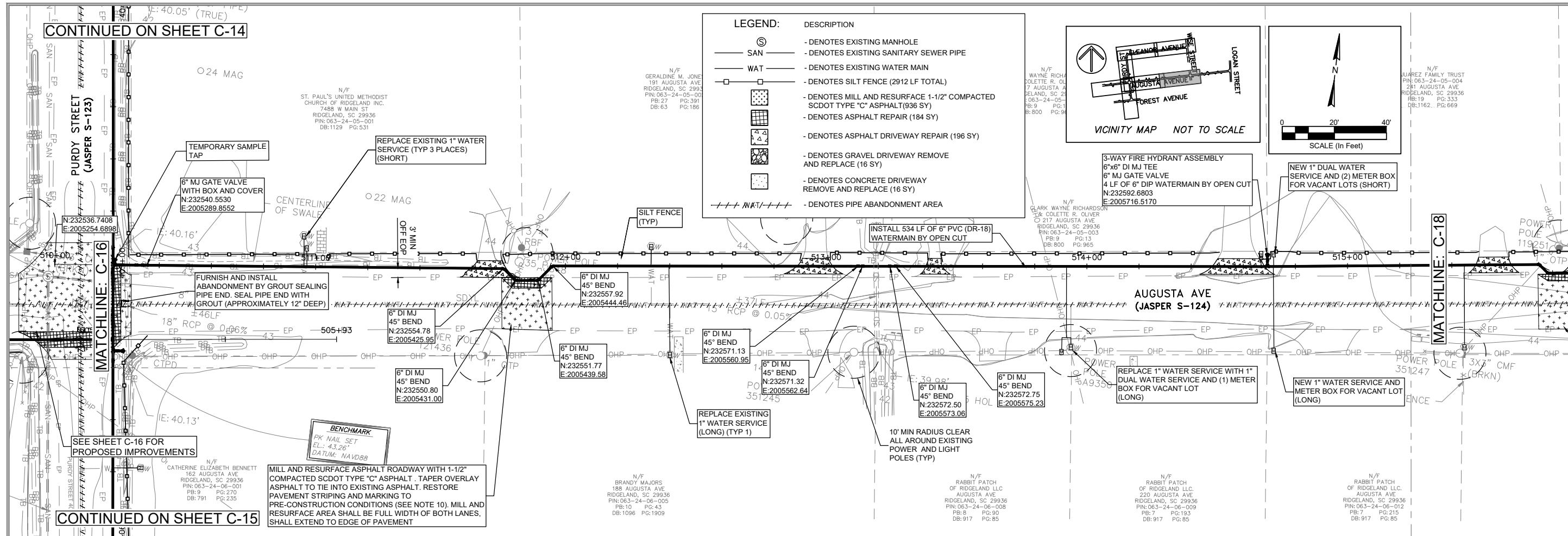
TOWN OF RIDGELAND
 CDBG WATER AND SEWER IMPROVEMENTS

TOWN OF RIDGELAND
 SOUTH CAROLINA

DESIGN DRAWN: BRH
 ABB: 17-1007.44
 JOB #: 17-1007.44
 ISSUE DATE: APRIL 2026
 ISSUE: 100%

FOUR WATERS ENGINEERING
 324 6th AVE. N., JACKSONVILLE BEACH, FLORIDA 32250
 844-414-2400 S.C. COA # 5166 WWW.FWENG.COM

DRAWING NUMBER
C-16



ANGELA B. BRYAN
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REGISTERED PROFESSIONAL ENGINEER
SOUTH CAROLINA
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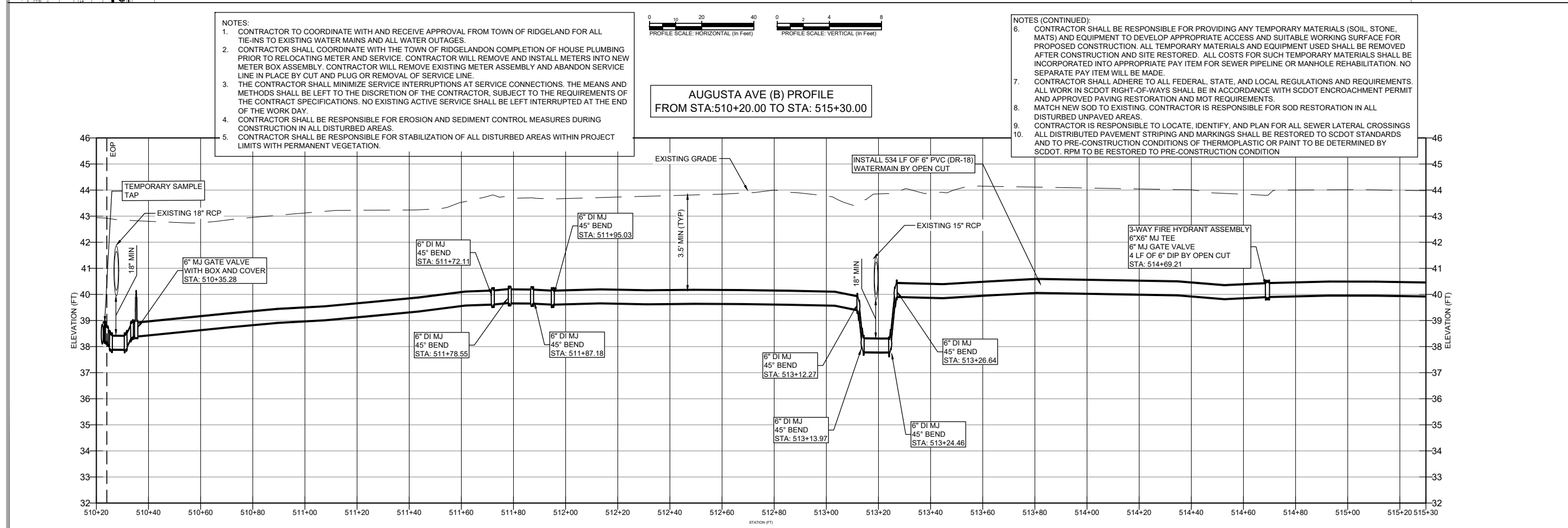
FOUR WATERS ENGINEERING, INC.
No. 5166
CREATED BY AUTOCAD

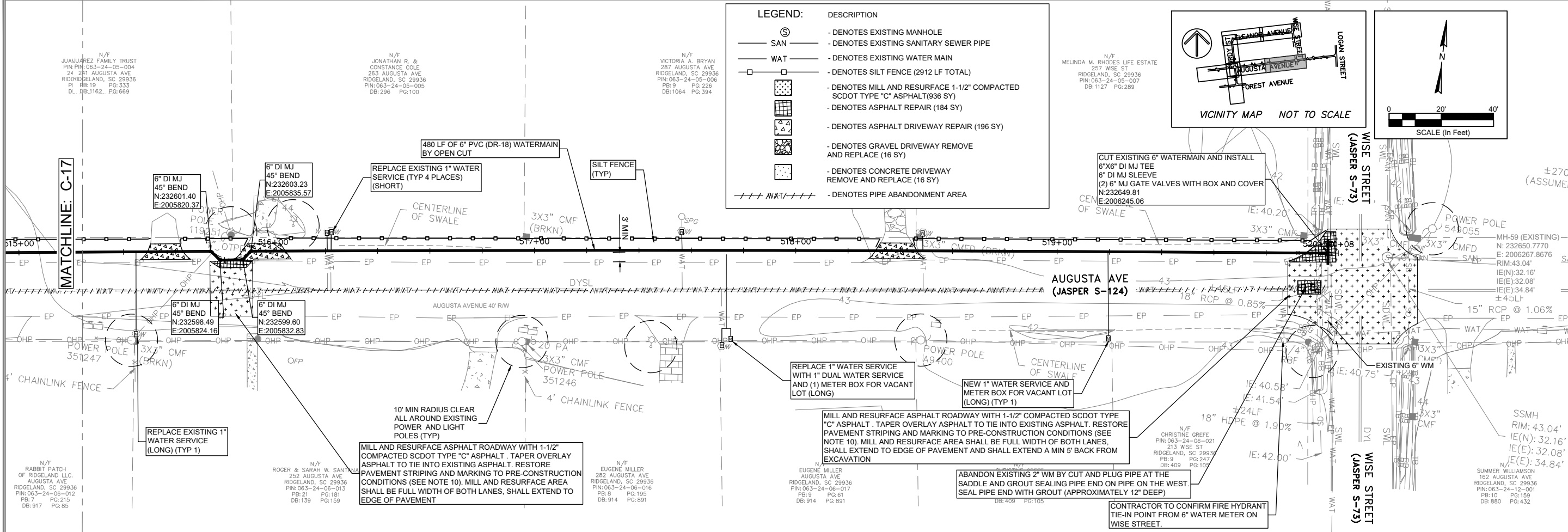
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TOWN OF RIDGELAND
CDBG WATER AND SEWER IMPROVEMENTS

PROPOSED IMPROVEMENTS - WATER

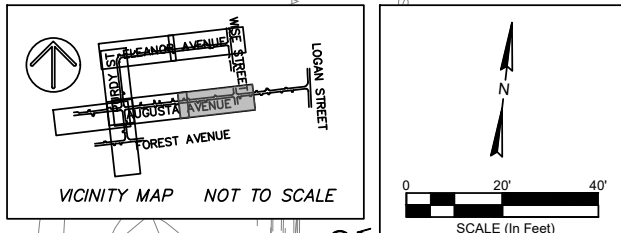
TOWN OF RIDGELAND
SOUTH CAROLINA





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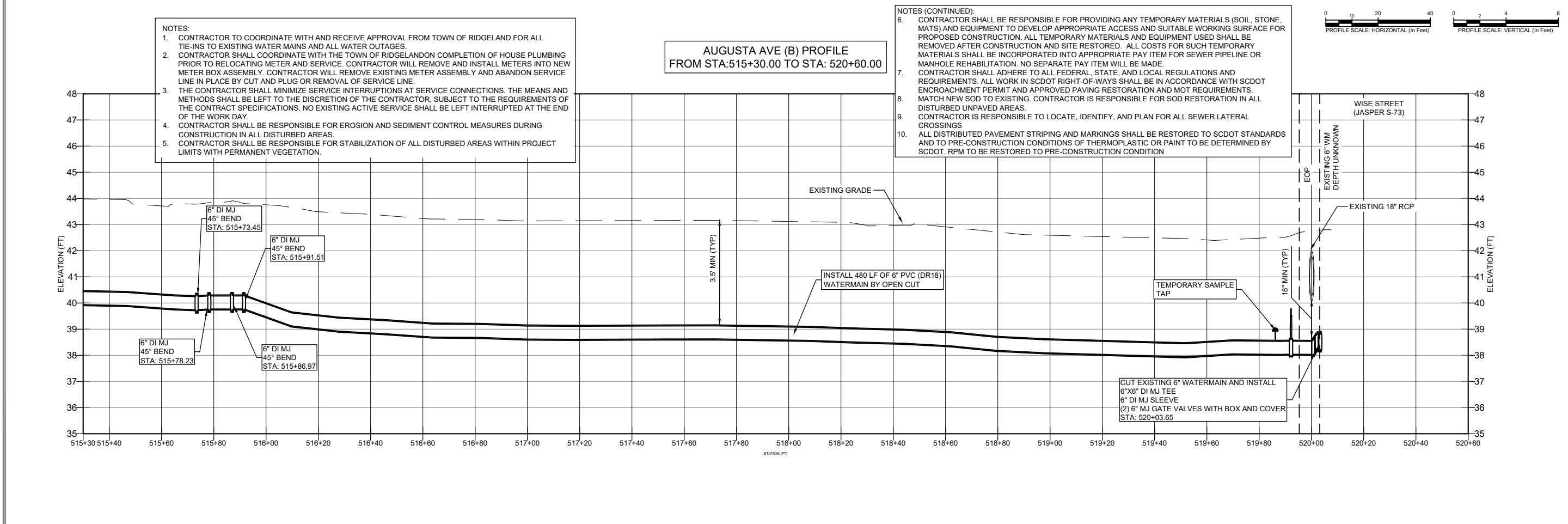
SYMBOL	DESCRIPTION
⊙	- DENOTES EXISTING MANHOLE
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□	- DENOTES SILT FENCE (2912 LF TOTAL)
[Grid Pattern]	- DENOTES MILL AND RESURFACE 1-1/2" COMPACTED SCDOT TYPE "C" ASPHALT (936 SY)
[Cross-hatch Pattern]	- DENOTES ASPHALT DRIVEWAY REPAIR (196 SY)
[Diagonal-hatch Pattern]	- DENOTES GRAVEL DRIVEWAY REMOVE AND REPLACE (16 SY)
[Dotted Pattern]	- DENOTES CONCRETE DRIVEWAY REMOVE AND REPLACE (16 SY)
--- WAT ---	- DENOTES PIPE ABANDONMENT AREA



ANGELA B. BRYAN
 REGISTERED PROFESSIONAL ENGINEER
 No. 21839
 SOUTH CAROLINA
 STATE BOARD OF PROFESSIONAL ENGINEERS

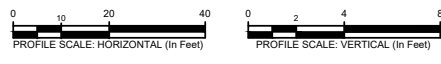
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FOUR WATERS ENGINEERING, INC.
 No. 5166
 SOUTH CAROLINA
 STATE BOARD OF PROFESSIONAL ENGINEERS



- NOTES:**
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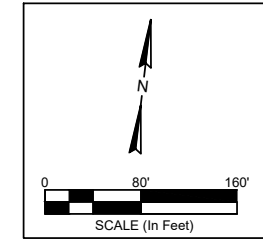


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PROPOSED IMPROVEMENTS - WATER
 TOWN OF RIDGELAND
 CDBG WATER AND SEWER IMPROVEMENTS
 SOUTH CAROLINA

DESIGN	ABB	BRH	ISSUE	DATE	ISSUE
17-1007.44			APRIL	2026	100%

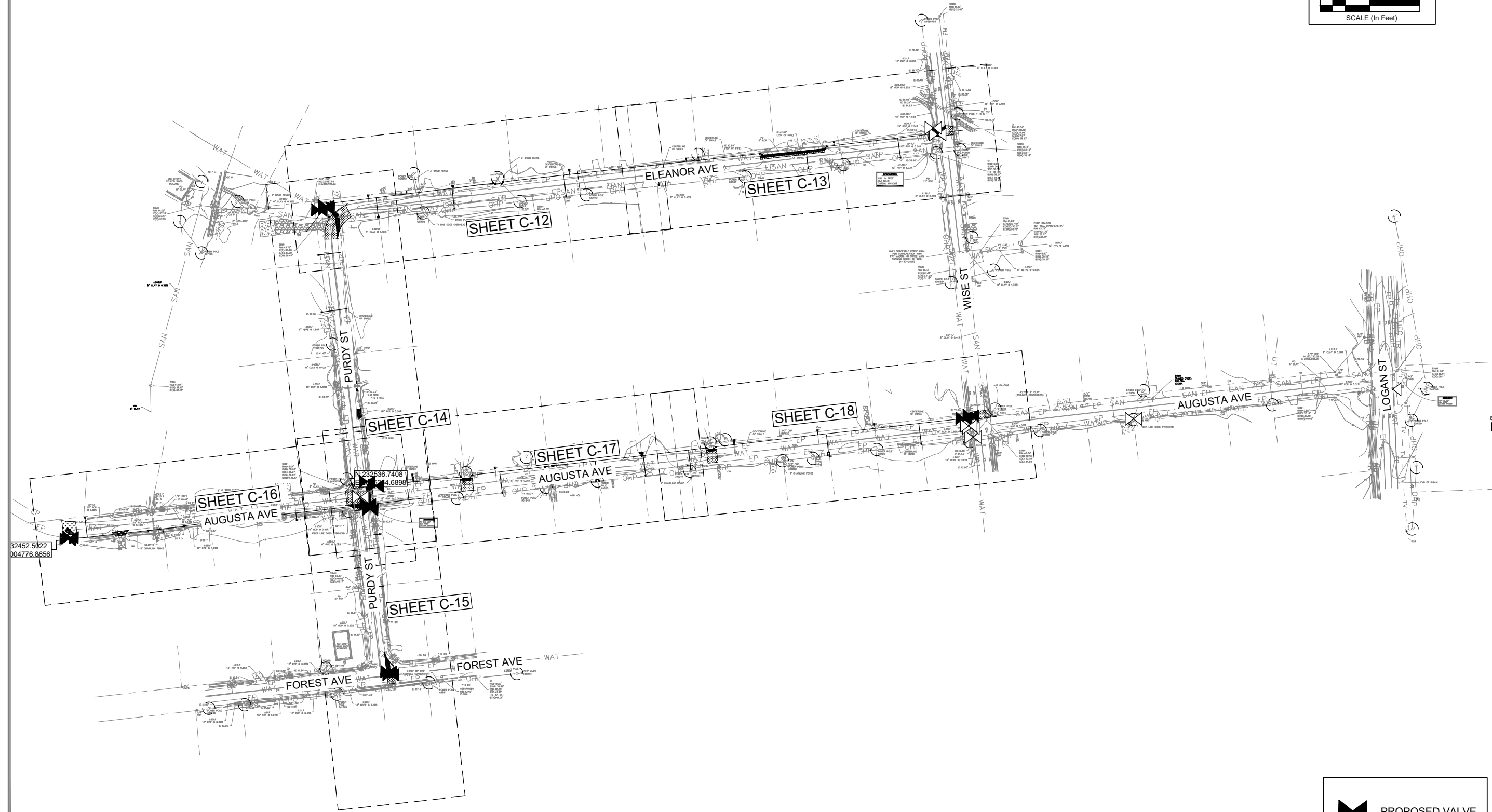
FOUR WATERS ENGINEERING
 324 6th AVE. N., JACKSONVILLE BEACH, FLORIDA 32250
 844-414-2400 WWW.FWENG.COM



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PROPOSED VALVE
 EXISTING VALVE

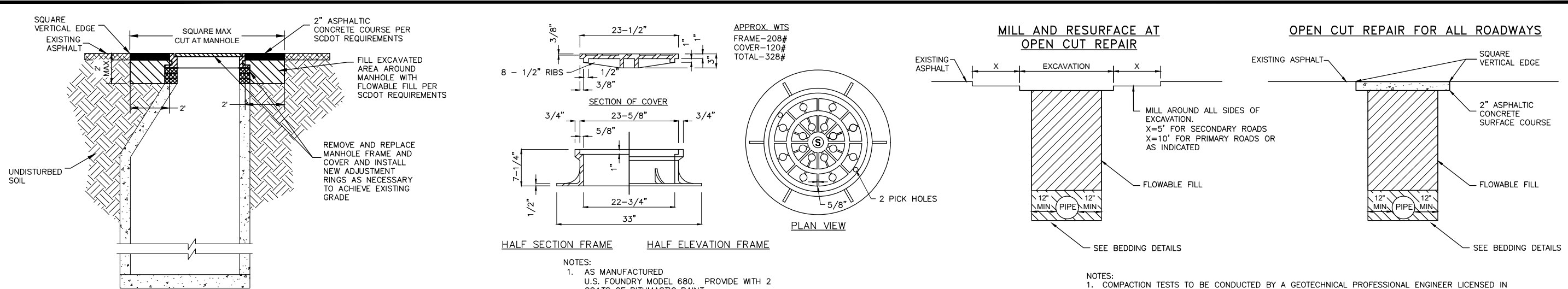
TOWN OF RIDGELAND
CDBG WATER AND SEWER IMPROVEMENTS
PROPOSED IMPROVEMENTS - VALVE LOCATION MAP
TOWN OF RIDGELAND
SOUTH CAROLINA

DESIGN ABB	DRAWN BRH
ABB	BRH

JOB #	ISSUE DATE	ISSUE
17-1007.44	APRIL 2026	100%

FOUR WATERS ENGINEERING
324 6th AVE. N. JACKSONVILLE BEACH, FLORIDA 32250
844-414-2400 S.C. COA # 5166 WWW.FWENG.COM

DRAWING NUMBER
C-19



SECTION
OPEN CUT SCDOT PAVEMENT REPAIR FOR LOW VOLUME ASPHALT AT MANHOLE
 NOT TO SCALE

SECTION OF COVER
HALF SECTION FRAME **HALF ELEVATION FRAME**

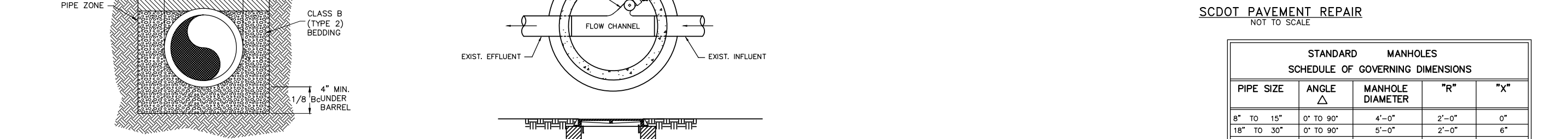
PLAN VIEW

NOTES:

- AS MANUFACTURED U.S. FOUNDRY MODEL 680. PROVIDE WITH 2 COATS OF BITUMASTIC PAINT.
- MACHINED BEARING SURFACES BETWEEN COVER AND FRAME.

NOTES:

- COMPACTION TESTS TO BE CONDUCTED BY A GEOTECHNICAL PROFESSIONAL ENGINEER LICENSED IN THE STATE OF SOUTH CAROLINA AND SUBMITTED TO THE TOWN AND SCDOT FOR REVIEW AND APPROVAL PRIOR TO PAVING. TESTING RESULTS SHALL BE PROVIDED DIRECTLY TO SCDOT BY TESTING LAB.
- COMPACTION TESTS SHALL BE CONDUCTED ON EACH SIDE OF THE MANHOLE (2 TOTAL) ABOVE THE PIPE INSTALLATION AND AS REQUIRED BY SCDOT FOR THE STRUCTURE. TESTS TO BE CONDUCTED BY A GEOTECHNICAL PROFESSIONAL ENGINEER LICENSED IN THE STATE OF SOUTH CAROLINA AND SUBMITTED TO THE TOWN AND SCDOT FOR REVIEW AND APPROVAL PRIOR TO PAVING.
- ALL EXCAVATION AREAS SHALL BE COVERED WITH STEEL PLATE TO SCDOT STANDARDS AND TRAFFIC RESTORED AT THE END OF THE WORK DAY.
- ALL DISTRIBUTED PAVEMENT STRIPING AND MARKINGS SHALL BE RESTORED TO SCDOT STANDARDS AND TO PRE-CONSTRUCTION CONDITIONS OF THERMOPLASTIC OR PAINT IN SECONDARY ROADS TO BE DETERMINED BY SCDOT.
- RPM TO BE RESTORED TO PRE-CONSTRUCTION CONDITIONS.

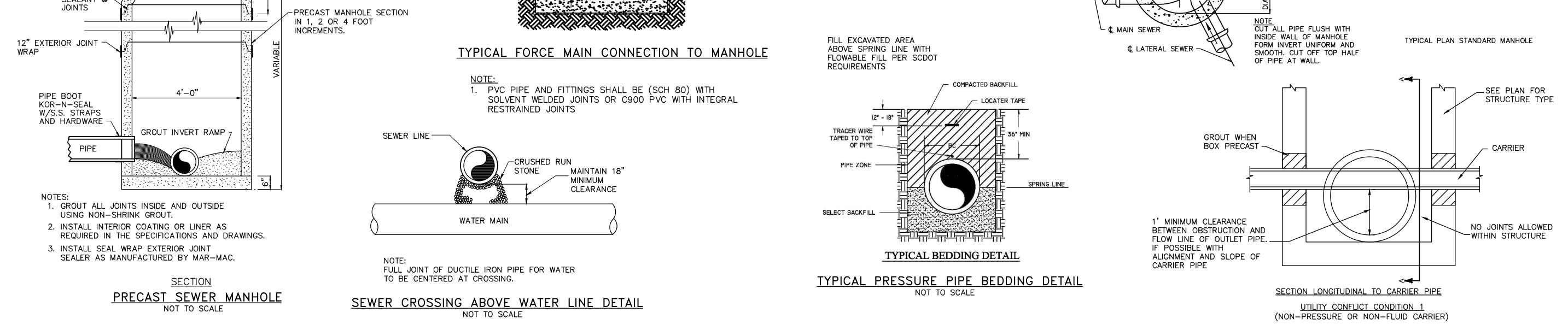


SECTION
BEDDING FOR PVC GRAVITY SEWER PIPE
 NOT TO SCALE

SECTION
TYPICAL FORCE MAIN CONNECTION TO MANHOLE

NOTES:

- PVC PIPE AND FITTINGS SHALL BE (SCH 80) WITH SOLVENT WELDED JOINTS OR C900 PVC WITH INTEGRAL RESTRAINED JOINTS.



SECTION
PRECAST SEWER MANHOLE
 NOT TO SCALE

SECTION LONGITUDINAL TO CARRIER PIPE
UTILITY CONFLICT CONDITION 1
 (NON-PRESSURE OR NON-FLUID CARRIER)

NOTES:

- GROUT ALL JOINTS INSIDE AND OUTSIDE USING NON-SHRINK GROUT.
- INSTALL INTERIOR COATING OR LINER AS REQUIRED IN THE SPECIFICATIONS AND DRAWINGS.
- INSTALL SEAL WRAP EXTERIOR JOINT SEALER AS MANUFACTURED BY MAR-MAC.

NOTE: FULL JOINT OF DUCTILE IRON PIPE FOR WATER TO BE CENTERED AT CROSSING.

SOUTH CAROLINA
REGISTERED PROFESSIONAL ENGINEER
 No. 21839
 ANGELA B. BRYAN

SOUTH CAROLINA
CERTIFICATE OF AUTHORITY
 FOUR WATERS ENGINEERING, INC.
 No. 5166

REV. NO.	DATE	DESCRIPTION
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STANDARD MANHOLES
SCHEDULE OF GOVERNING DIMENSIONS

PIPE SIZE	ANGLE Δ	MANHOLE DIAMETER	"R"	"X"
8" TO 15"	0° TO 90°	4'-0"	2'-0"	0"
18" TO 30"	0° TO 90°	5'-0"	2'-0"	6"
36" TO 42"	0° TO 60°	6'-0"	3'-0"	9"
36" TO 42"	60° TO 90°	6'-0"	3'-0"	1'-2"
48" OR LARGER	0° TO 45°	7'-0"	4'-0"	6"
48" OR LARGER	45° TO 90°	8'-0"	3'-0"	1'-3"

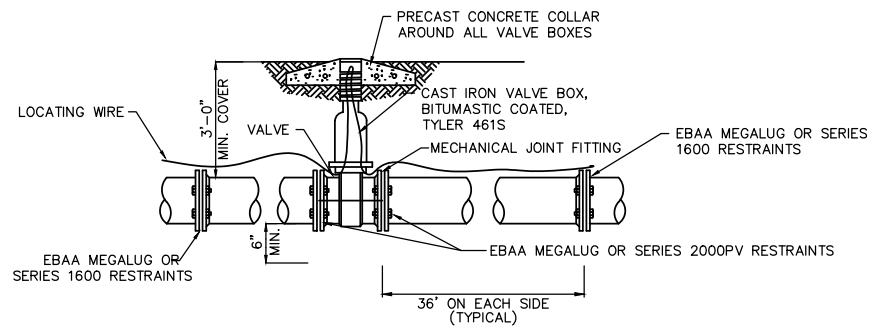
CONSTRUCTION DETAILS

TOWN OF RIDGELAND
 CDBG WATER AND SEWER IMPROVEMENTS

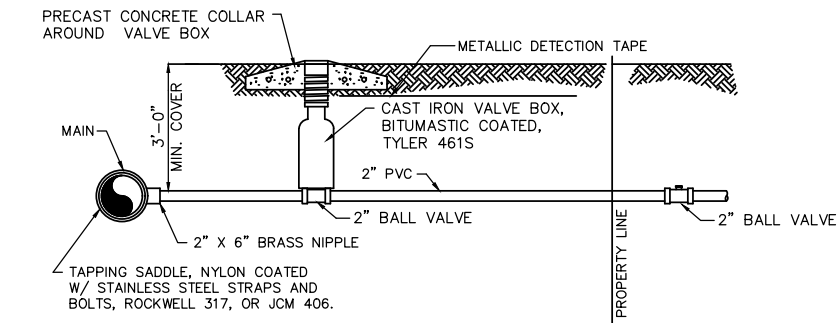
DESIGN
 ABB
 JOB # 17-1007-44
 ISSUE DATE APRIL 2026
 ISSUE 100%

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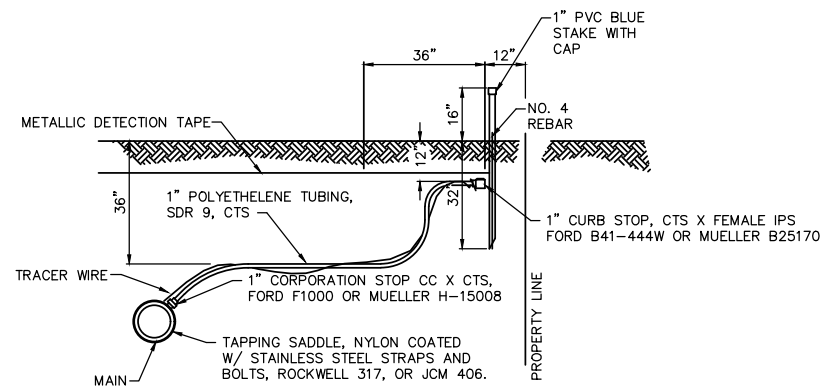
DRAWING NUMBER
D-1



GATE VALVE SETTING DETAIL
NOT TO SCALE



2" SERVICE CONNECTION DETAIL
NOT TO SCALE



1" WATER SERVICE CONNECTION DETAIL
NOT TO SCALE

PVC PIPE RESTRAINT NOTES:

- THIS SCHEDULE SHALL BE UTILIZED ON ALL WATER, SEWER FORCE MAIN OR RECLAIMED WATER SYSTEMS. ALL FITTINGS SHALL BE RESTRAINED TO LENGTHS INDICATED ON THE ABOVE SCHEDULE, AT A MINIMUM.
- ASSUMPTIONS: PVC PIPE, SAFETY FACTOR=1.5, TEST PRESSURE=150PSI, SOIL=GM OR SM, TRENCH TYPE 3, DEPTH OF COVER=30 INCHES FOR 20" AND SMALLER PIPE SIZE OR 36 INCHES FOR 24" AND LARGER PIPE SIZE.
- BENDS AND VALVES: SHALL BE RESTRAINED ON EACH SIDE OF FITTING.
- VERTICAL OFFSETS: ARE APPROX. 3 FEET COVER ON TOP AND APPROX. 8 FEET COVER ON BOTTOM. PER THE DETAILS. LU IS THE RESTRAINED LENGTH FOR THE UPPER (TOP) LEVEL. LI IS THE RESTRAINED LENGTH FOR THE LOWER (DEEPER) LEVEL. ASSUME 45 DEGREE BENDS.
- TEES: TOTAL LENGTH BETWEEN FIRST JOINTS OR RESTRAINED LENGTH ON EITHER SIDE OF TEE (RUN) SHALL BE A TOTAL DISTANCE OF 30 FEET (MIN). SEE SCHEDULE ABOVE FOR RESTRAINED LENGTH ON TEE "BRANCH" LINE.
- HDPE TO PVC TRANSITIONS: THE PVC PIPE SIDE SHALL BE RESTRAINED 35 FT (MIN).
- THE INSTALLATION OF BELL HARNESS RESTRAINTS AT PVC JOINTS (DR-18 & 25 PIPE) SHALL BE COMPLETED PER THE MANUFACTURERS RECOMMENDATION, WHICH INCLUDES NOT OVER TIGHTENING THE PARALLEL RODS/NUTS. THESE NUTS SHOULD ONLY BE SNUG TIGHT. THE HOME MARKS ON THE PIPE SHOULD ALWAYS BE VISIBLE AFTER THE RESTRAINT IS INSTALLED. OVERHOMING THE JOINT MAY CAUSE A FAILURE AT THE BELL RESULTING IN A SERVICE OUTAGE.

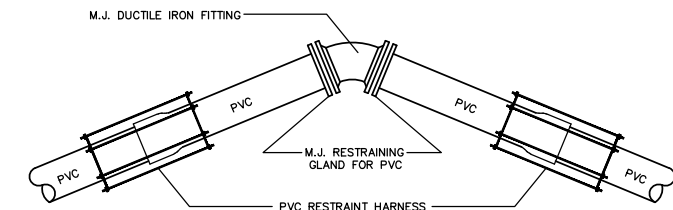
LENGTH (L) TO BE RESTRAINED

(SEE PLATE Nos. 38C & 38D FOR ADDITIONAL DETAILS)

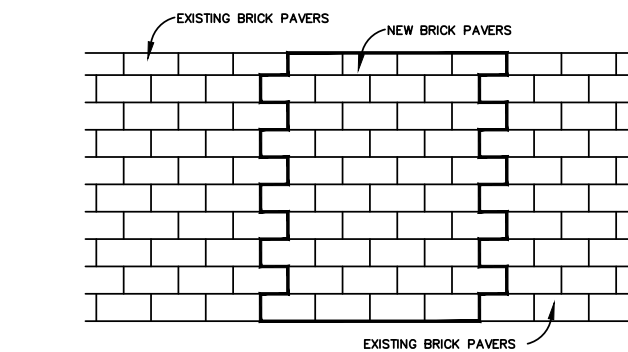
NOMINAL PIPE SIZE (IN.)	HORIZONTAL BENDS				VERTICAL OFFSETS 45° BENDS (SEE NOTE 4)		VALVES OR DEAD ENDS L (FT.)	REDUCERS		TEES SEE NOTE 5		
	90° BENDS L (FT.)	45° BENDS L (FT.)	22.5° BENDS L (FT.)	11.25° BENDS L (FT.)	UPPER L (FT.)	LOWER L (FT.)		SIZE (IN.)	L (FT.)	RUN SIZE (IN.)	BRANCH SIZE (IN.)	L (FT.)
4	21	9	5	3	17	3	47	6x4	34	4	4	F.O.
6	30	13	6	3	23	4	66	8x6	36	4	6	10
8	38	16	8	4	30	6	86	8x8	62	4 < LESS	8	F.O.
10	45	19	9	5	36	7	103	10x8	35	8	8	29
12	53	22	11	6	43	8	121	10x6	63	6 < LESS	10	F.O.
14	61	26	13	6	50	9	140	12x10	36	8	10	45
16	66	28	14	7	55	10	154	12x8	64	6 < LESS	8	13
18	73	30	15	8	60	11	170	16x12	66	10 < LESS	12	32
20	79	33	16	8	66	12	186	16x10	92	8 < LESS	10	F.O.
24	79	33	16	8	77	15	185	20x18	35	16	16	94
30	93	39	19	10	97	17	222	20x16	66	12	12	39
36	106	39	21	11	107	20	257	20x12	117	10 < LESS	10	5
42	117	49	24	12	120	24	289	24x20	56	20	20	125
48	144	53	26	13	133	26	321	24x18	80	16	16	76
								24x16	101	12	12	14
								30x24	78	10 < LESS	14	F.O.
								30x20	121	24	24	84
								36x30	78	16	16	36
								36x24	141	12 < LESS	20	F.O.
								42x30	75	30	24	104
								42x30	140	20	60	5
								48x42	75	16 < LESS	16	F.O.
								48x36	139	36	36	192
										30	30	142
										24	24	83
										20	20	33
										16 < LESS	16	F.O.
										42	42	223
										30	30	178
										24	24	83
										20	20	33
										16 < LESS	16	F.O.
										48	48	253
										42	42	209
										30	30	162
										24	24	59
										20 < LESS	20	F.O.

F.O. = FITTING ONLY

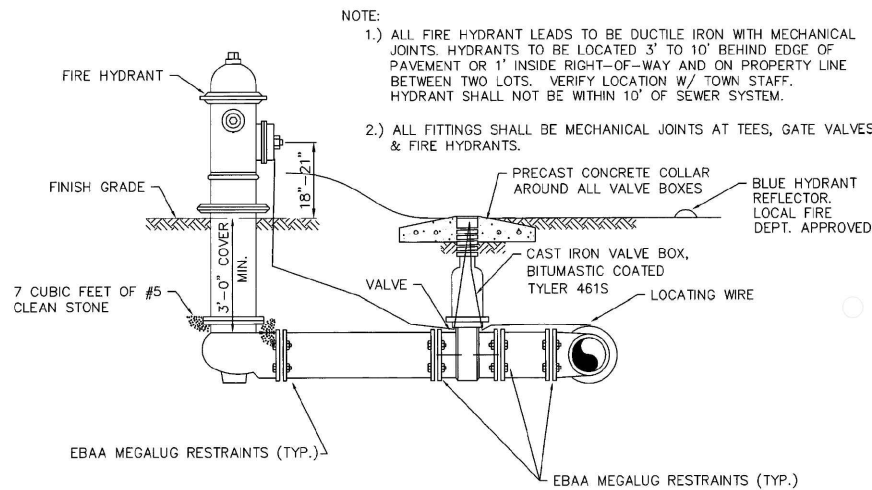
PVC PIPE RESTRAINT JOINT SCHEDULE



RESTRAINED JOINT FITTING DETAIL
NOT TO SCALE

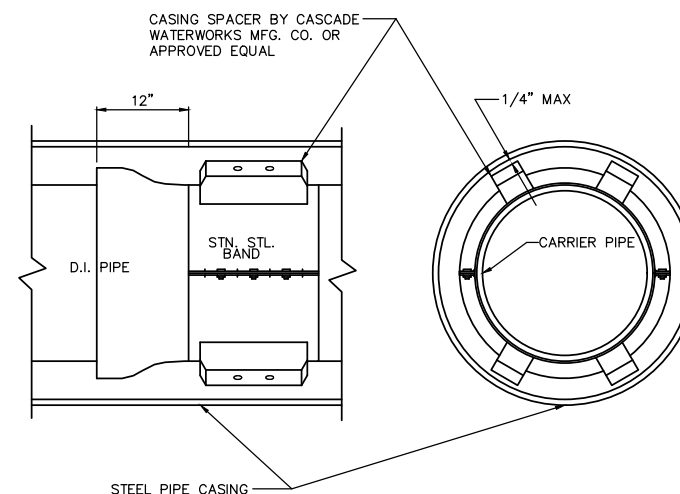


STANDARD BRICK SIDEWALK REPAIR DETAIL



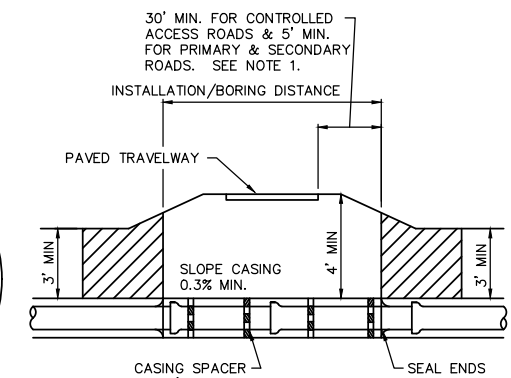
FIRE HYDRANT, VALVE & TEE SETTING

NOT TO SCALE



CARRIER PIPE INSTALLATION IN CASING

NOT TO SCALE



NOTES:

- THE NEAR EDGE OF THE PIT CAN BE NO CLOSER TO THE EDGE OF THE TRAVELWAY THAN ITS DEPTH BELOW THE SURFACE OF THE TRAVELWAY UNLESS BULKHEADED.
- STEEL CASING PIPE SHALL HAVE A 0.25 INCH WALL THICKNESS.



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TOWN OF RIDGELAND
CDBG WATER AND SEWER IMPROVEMENTS

CONSTRUCTION DETAILS

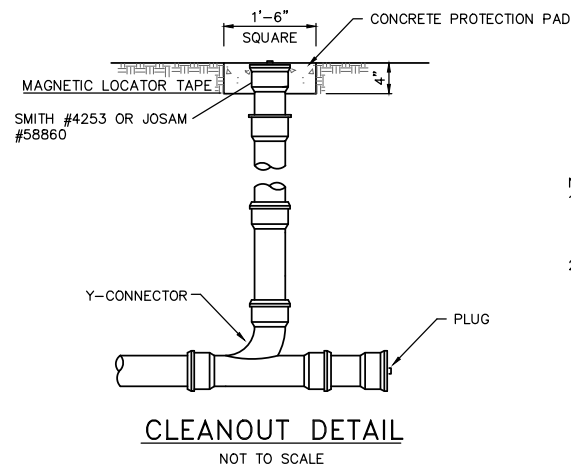
TOWN OF RIDGELAND
SOUTH CAROLINA

DESIGN	ABB	BRH	17-1007-44
JOB #	APRIL	2026	100%
ISSUE	DATE	ISSUE	

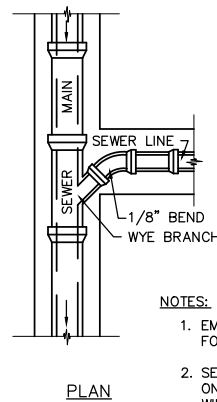
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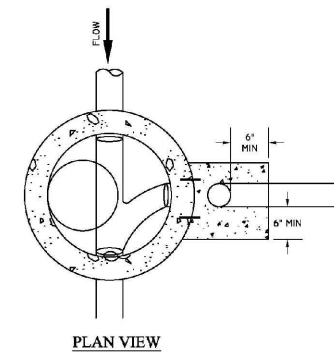
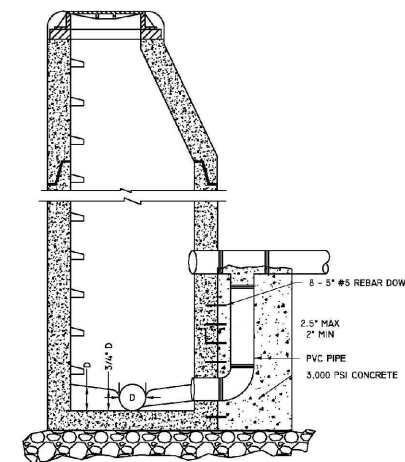
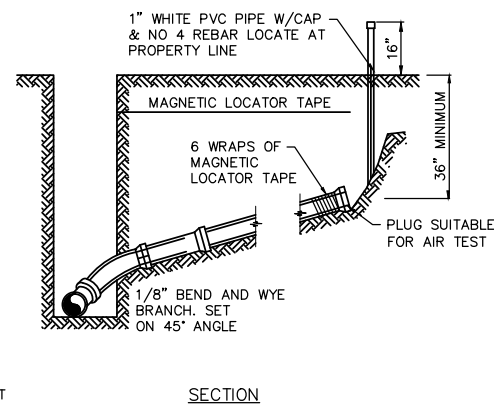
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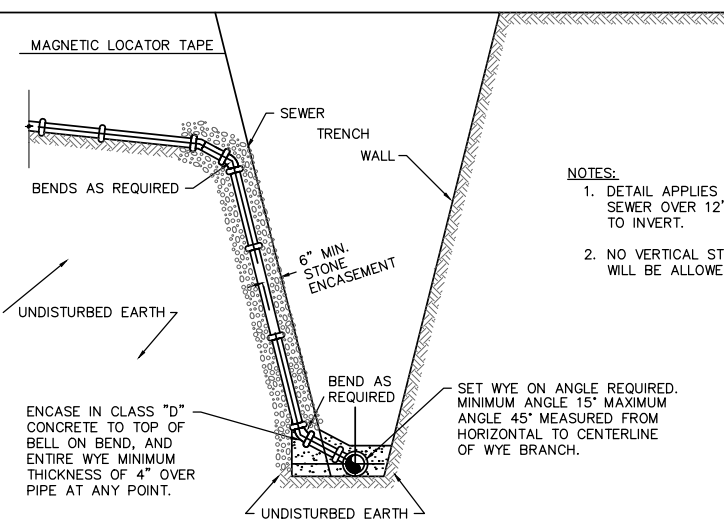
- NOTES:
1. THE CLEANOUT SHOULD BE THE SAME SIZE DIAMETER AS THE LINE THAT IT IS INSTALLED ON.
 2. CLEANOUT SHOULD CONSIST OF A PLUG SUITABLE FOR AIR TEST.



- NOTES:
1. EMBEDMENT SAME AS FOR SEWER LINE.
 2. SERVICE LINE SHALL BE ON SUCH A GRADE THAT WILL PERMIT SERVICING OF PROPERTY. MINIMUM GRADE SHALL BE 1.0%. MAXIMUM GRADE SHALL BE 50%.
 3. NO VERTICAL STACKING WILL BE ALLOWED.

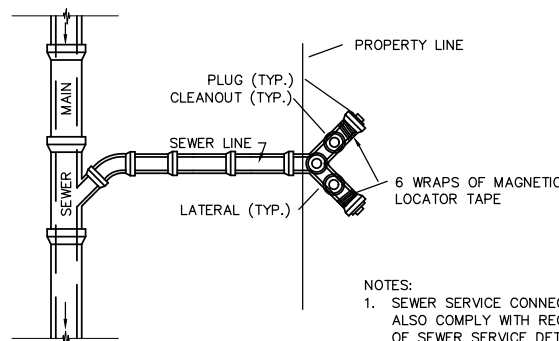


SEWER SERVICE CONNECTION DETAIL
NOT TO SCALE



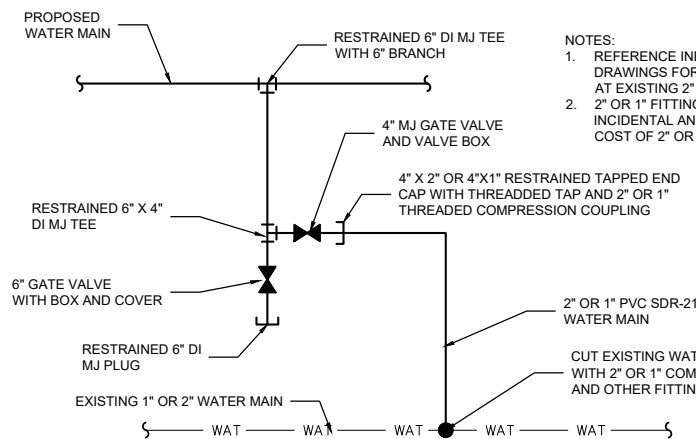
- NOTES:
1. DETAIL APPLIES TO SEWER OVER 12' DEEP TO INVERT.
 2. NO VERTICAL STACKING WILL BE ALLOWED.

DEEP SEWER SERVICE DETAIL
NOT TO SCALE



- NOTES:
1. SEWER SERVICE CONNECTION SHOULD ALSO COMPLY WITH REQUIREMENTS OF SEWER SERVICE DETAIL.
 2. CLEANOUTS ON INDIVIDUAL LATERALS SHALL BE PLACED AT PROPERTY LINE.
 3. CONNECTION TO MAIN SHALL BE 6" PIPE. SERVICES MAY BE 4".

DOUBLE SEWER SERVICE
NOT TO SCALE



- NOTES:
1. REFERENCE INDIVIDUAL CONSTRUCTION DRAWINGS FOR SPECIFIC CONNECTION LAYOUT AT EXISTING 2" OR 1" WATERMAIN
 2. 2" OR 1" FITTINGS ARE CONSIDERED INCIDENTAL AND SHALL BE INCLUDED IN THE COST OF 2" OR 1" WATER MAIN INSTALLATIONS

2" WATER MAIN CONNECTION
NTS

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REGISTERED PROFESSIONAL ENGINEER
SOUTH CAROLINA
FOUR WATERS ENGINEERING, INC.
No. 5166
SOUTH CAROLINA
CREDENTIAL OF AUTHORITY

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TOWN OF RIDGELAND
CDBG WATER AND SEWER IMPROVEMENTS
CONSTRUCTION DETAILS
TOWN OF RIDGELAND
SOUTH CAROLINA

DESIGN ABB	DATE	ISSUE	ISSUE
ABB	17-1007-44	APRIL 2026	100%

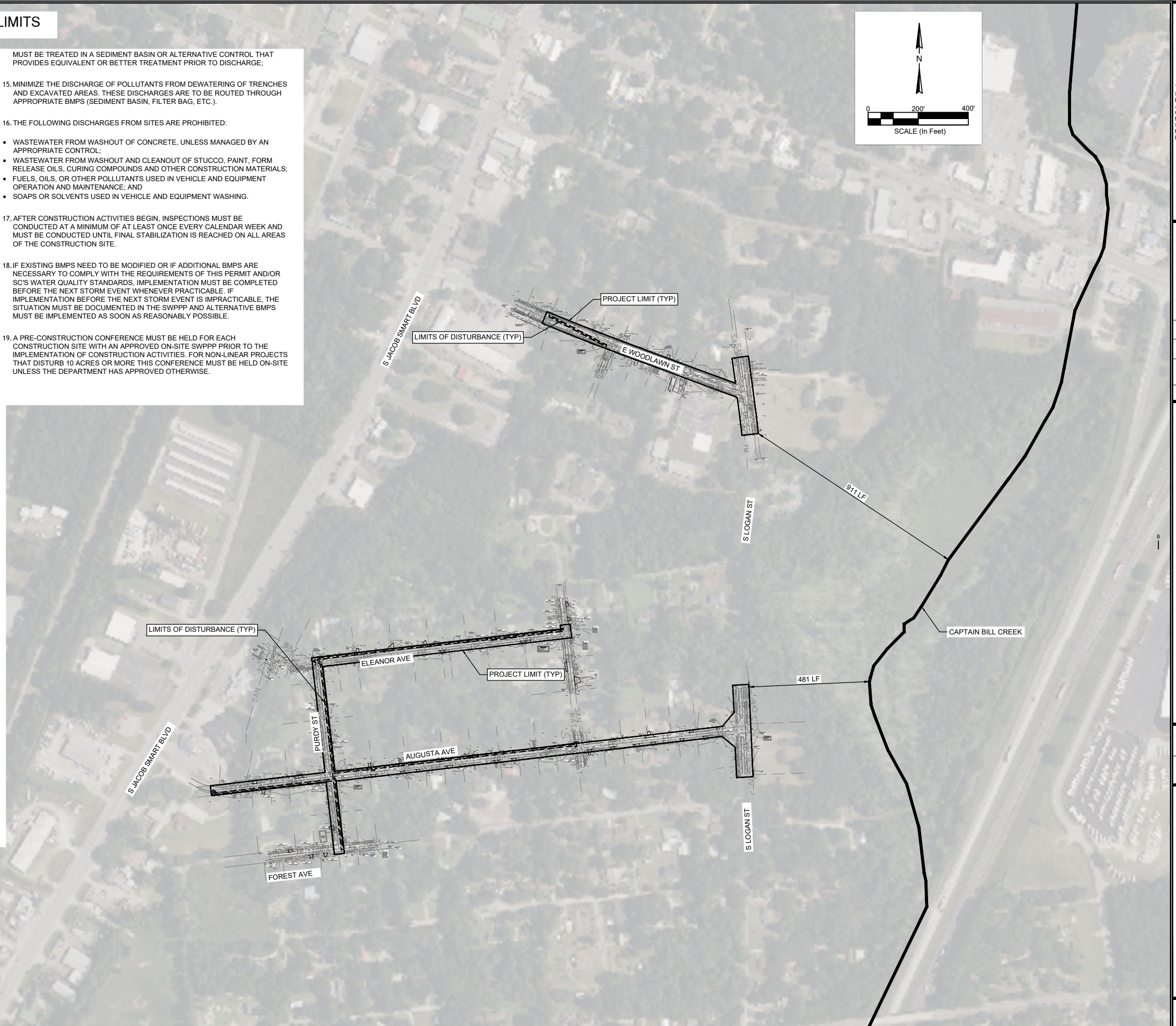
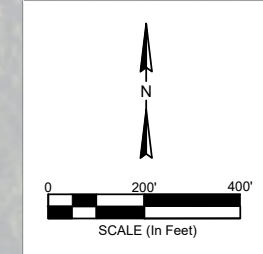
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DRAWING NUMBER
D-3

PROJECT LIMIT AND LAND DISTURBANCE LIMITS

SCDHEC SEDIMENT AND EROSION CONTROL 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, 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 CAN'T BE MAINTAINED BETWEEN THE DISTURBED AREA AND ALL WOS. A 10-FOOT BUFFER SHOULD BE MAINTAINED BETWEEN THE LAST ROW OF SILT FENCE AND ALL WOS.
- 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.



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TOWN OF RIDGELAND
 CDBG WATER AND SEWER IMPROVEMENTS
LIMITS OF DISTURBANCE
 TOWN OF RIDGELAND
 SOUTH CAROLINA

DESIGN ABB.	JOB #	ISSUE DATE	ISSUE
BRH	17-007-44	APRIL 2026	100%

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DRAWING NUMBER
D-4

PROJECT LIMITS NOTES:
 PROJECT LIMITS DETERMINED BY RIGHT-OF-WAY DIMENSIONS AS SPECIFIED AND SHOWN ON DRAWINGS.
 PROJECT LIMIT AREAS:
 APPROX 5.56 ACRES
 LAND DISTURBANCE LIMITS BASED ON PROJECT IMPROVEMENTS AND CONSTRUCTION RELATED ITEMS (DOES NOT INCLUDE MAINTENANCE OF ROADWAYS).
 LAND DISTURBANCE AREAS:
 APPROX 0.49 ACRES



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TOWN OF RIDGELAND
CDBG WATER AND SEWER IMPROVEMENTS

SCDHEC SEDIMENT AND EROSION CONTROL DETAILS

TOWN OF RIDGELAND
SOUTH CAROLINA

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		17-1007-44	APRIL 2026	100%

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DRAWN BRH: BRH
JOB # 17-1007-44
ISSUE DATE: APRIL 2026
ISSUE: 100%

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DRAWING NUMBER
D-5

SILT FENCE INSTALLATION

PLAN SYMBOL

SILT FENCE - GENERAL NOTES

- Do not place silt fence across channels or in other areas subject to concentrated flows. Silt fence should not be used as a velocity control BMP. Concentrated flows are any flows greater than 0.5 cfs.
- Maximum sheet or overlaid flow path length to the silt fence shall be 100-feet.
- Maximum slope steepness (normal [perpendicular] to the fence line) shall be 2:1.
- Silt fence joints, when necessary, shall be completed by one of the following options:
 - Wrap each fabric together at a support post with both ends fastened to the post, with a 1-foot minimum overlap;
 - Overlap silt fence by installing 3-feet passed the support post to which the new silt fence roll is attached. Attach old roll to new roll with heavy-duty plastic ties; or,
 - Overlap entire width of each silt fence roll from one support post to the next support post.
- Attach filter fabric to the steel posts using heavy-duty plastic ties that are evenly spaced within the top 8-inches of the fabric.
- Install the silt fence perpendicular to the direction of the stormwater flow and place the silt fence the proper distance from the toe of steep slopes to provide sediment storage and access for maintenance and cleanout.
- Install Silt Fence Checks (Tie-Backs) every 50-100 feet, dependent on slope, along silt fence that is installed with slope and where concentrated flows are expected or are documented along the proposed/installed silt fence.

FLAT-BOTTOM TRENCH DETAIL

V-SHAPED TRENCH DETAIL

South Carolina Department of Health and Environmental Control

SILT FENCE

STANDARD DRAWING NO. SC-03 Page 1 of 2
NOT TO SCALE FEBRUARY 2014 DATE

SILT FENCE - POST REQUIREMENTS

Silt Fence posts must be 48-inch long steel posts that meet, at a minimum, the following physical characteristics.

- Composed of a high strength steel with a minimum yield strength of 50,000 psi.
- Include a standard "T" section with a nominal face width of 1.38-inches and a nominal "T" length of 1.48-inches.
- Weight 1.25 pounds per foot (± 8%)

- Posts shall be equipped with projections to aid in fastening of filter fabric.
- Steel posts may need to have a metal soil stabilization plate welded near the bottom when installed along steep slopes or installed in loose soils. The plate should have a minimum cross section of 17-square inches and be composed of 15 gauge steel, at a minimum. The metal soil stabilization plate should be completely buried.
- Install posts to a minimum of 24-inches. A minimum height of 1- to 2- inches above the fabric shall be maintained, and a maximum height of 3 feet shall be maintained above the ground.
- Post spacing shall be at a maximum of 6-feet on center.

SILT FENCE - FABRIC REQUIREMENTS

- Silt fence must be composed of woven geotextile filter fabric that consists of the following requirements:
 - Composed of fibers consisting of long chain synthetic polymers of at least 85% by weight of polyolefins, polyesters, or polyamides that are 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 any defects or flaws that significantly affect its physical and/or filtering properties; and,
 - Have a minimum width of 36-inches.
- Use only fabric appearing on SC DOT's Qualified Products Listing (QPL), Approval Sheet #34, meeting the requirements of the most current edition of the SC DOT Standard Specifications for Highway Construction.
- 12-inches of the fabric should be placed within excavated trench and toed in when the trench is backfilled.
- Filter Fabric shall be purchased in continuous rolls and cut to the length of the barrier to avoid joints.
- Filter Fabric shall be installed at a minimum of 24-inches above the ground.

SILT FENCE - INSPECTION & MAINTENANCE

- The key to functional silt fence is weekly inspections, routine maintenance, and regular sediment removal.
- Regular inspections of silt fence shall be conducted once every calendar week and, as recommended, within 24-hours after each rainfall event that produces 1/2-inch or more of precipitation.
- Attention to sediment accumulations along the silt fence is extremely important. Accumulated sediment should be continually monitored and removed when necessary.
- Remove accumulated sediment when it reaches 1/3 the height of the silt fence.
- Removed sediment shall be placed in stockpile storage areas or spread thinly across disturbed area. Stabilize the removed sediment after it is relocated.
- Check for areas where stormwater runoff has eroded a channel beneath the silt fence, or where the fence has sagged or collapsed due to runoff overtopping the silt fence. Install checks/tie-backs and/or reinstall silt fence, as necessary.
- Check for tears within the silt fence, areas where silt fence has begun to decompose, and for any other circumstance that may render the silt fence ineffective. Removed damaged silt fence and reinstall new silt fence immediately.
- Silt fence should be removed within 30 days after final stabilization is achieved and once it is removed, the resulting disturbed area shall be permanently stabilized.

POST INSTALLATION DETAIL

SEDIMENT TUBE INSTALLATION DETAIL

PLAN SYMBOL

South Carolina Department of Health and Environmental Control

Type A SEDIMENT TUBE INLET PROTECTION

STANDARD DRAWING NO. SC-07A PAGE 1 of 2
NOT TO SCALE FEBRUARY 2014 DATE

TYPE A - SEDIMENT TUBE INLET PROTECTION

GENERAL NOTES

- Sediment tubes are elongated tubes of compacted geotextiles, curled excelsior wood, natural coconut fiber, or hardwood mulch. Straw, pine needle, and leaf mulch-filled sediment tubes are not permitted.
- The outer netting of the sediment tube should consist of seamless, high-density polyethylene photodegradable materials treated with ultraviolet stabilizers or a seamless, high-density polyethylene non-degradable material.
- Sediment tube diameters shall range from 18-inches to 24-inches. Sediment tubes with smaller diameters are prohibited when used as inlet protection.
- Curled excelsior wood, or natural coconut products that are rolled up to create a sediment tube are not allowed.
- Sediment tubes should be staked using wooden oak stakes (2-inch X 2-inch) or steel posts (standard "U" or "T" sections with a minimum weight of 1.25 pounds per foot) at a minimum of 48-inches in length placed on 2-foot centers.
- Install all sediment tubes to ensure that no gaps exist between the soil and the bottom of the tube. Manufacturer's recommendations should always be consulted before installation.
- The ends of adjacent sediment tubes should be overlapped 6-inches to prevent flow and sediment from passing through the field joint.
- Sediment tubes should not be stacked on top of one another.
- Each sediment tube should be installed in a trench with a depth equal to 1/5 the diameter of the sediment tube.
- Install stakes at a diagonal facing incoming runoff.

INSPECTION & MAINTENANCE

- The key to functional inlet protection is weekly inspections, routine maintenance, and regular sediment removal.
- Regular inspections of sediment tube inlet protection shall be conducted once every calendar week and, as recommended, within 24-hours after each rainfall event that produces 1/2-inch or more of precipitation.
- Attention to sediment accumulations in front of the sediment tube is extremely important. Accumulated sediment should be continually monitored and removed when necessary.
- Remove accumulated sediment when it reaches 1/3 the height of the sediment tube. When a sump is installed in front of the inlet protection, sediment shall be removed when it fills approximately 1/3 the depth of the sump.
- Removed sediment shall be placed in stockpile storage areas or spread thinly across disturbed area. Stabilize the removed sediment after it is relocated.
- Large debris, trash, and leaves should be removed from in front of tubes when found.
- Inlet protection structures should be removed after the disturbed areas are permanently stabilized, and dispose of them properly. Grade the disturbed area to the elevation of the drop inlet structure crest. Stabilize all bare areas immediately.

South Carolina Department of Health and Environmental Control

Type A SEDIMENT TUBE INLET PROTECTION

STANDARD DRAWING NO. SC-07A PAGE 2 of 2
NOT TO SCALE FEBRUARY 2014 DATE

TYPE A - FILTER FABRIC REQUIREMENTS

- Silt fence must be composed of woven geotextile filter fabric that consists of the following requirements:
 - Composed of fibers consisting of long chain synthetic polymers of at least 85% by weight of polyolefins, polyesters, or polyamides that are 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 any defects or flaws that significantly affect its physical and/or filtering properties; and,
 - Have a minimum width of 36-inches.
- Use only fabric appearing on SC DOT's Qualified Products Listing (QPL), Approval Sheet #34, meeting the requirements of the most current edition of the SC DOT Standard Specifications for Highway Construction.
- 12-inches of the fabric should be placed within excavated trench and toed in when the trench is backfilled.
- Filter Fabric shall be purchased in continuous rolls and cut to the length of the barrier to avoid joints.
- Filter Fabric shall be installed at a minimum of 24-inches above the ground.

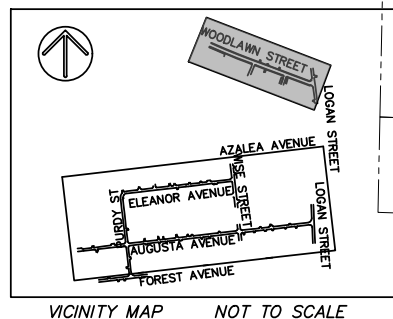
TYPE A - POST REQUIREMENTS

- Silt Fence posts must be 48-inch long steel posts that meet, at a minimum, the following physical characteristics.
 - Composed of a high strength steel with a minimum yield strength of 50,000 psi.
 - Include a standard "T" section with a nominal face width of 1.38-inches and a nominal "T" length of 1.48-inches.
 - Weight 1.25 pounds per foot (± 8%)
- Posts shall be equipped with projections to aid in fastening of filter fabric.
- Install posts to a minimum of 24-inches. A minimum height of 1- to 2- inches above the fabric shall be maintained, and a maximum height of 3 feet shall be maintained above the ground.
- Post spacing shall be at a maximum of 3-feet on center.

South Carolina Department of Health and Environmental Control

SEDIMENT TUBE INLET PROTECTION

STANDARD DRAWING NO. SC-07A PAGE 2 of 2
NOT TO SCALE FEBRUARY 2014 DATE



TYPICAL SIGNS

NOTE: ALWAYS INSTALL 24" SIGNS WITH 24" SIGNS AND 30" SIGNS WITH 30" SIGNS. SIGNING IS NOT LIMITED TO THOSE SIGNS ILLUSTRATED.

LEGEND

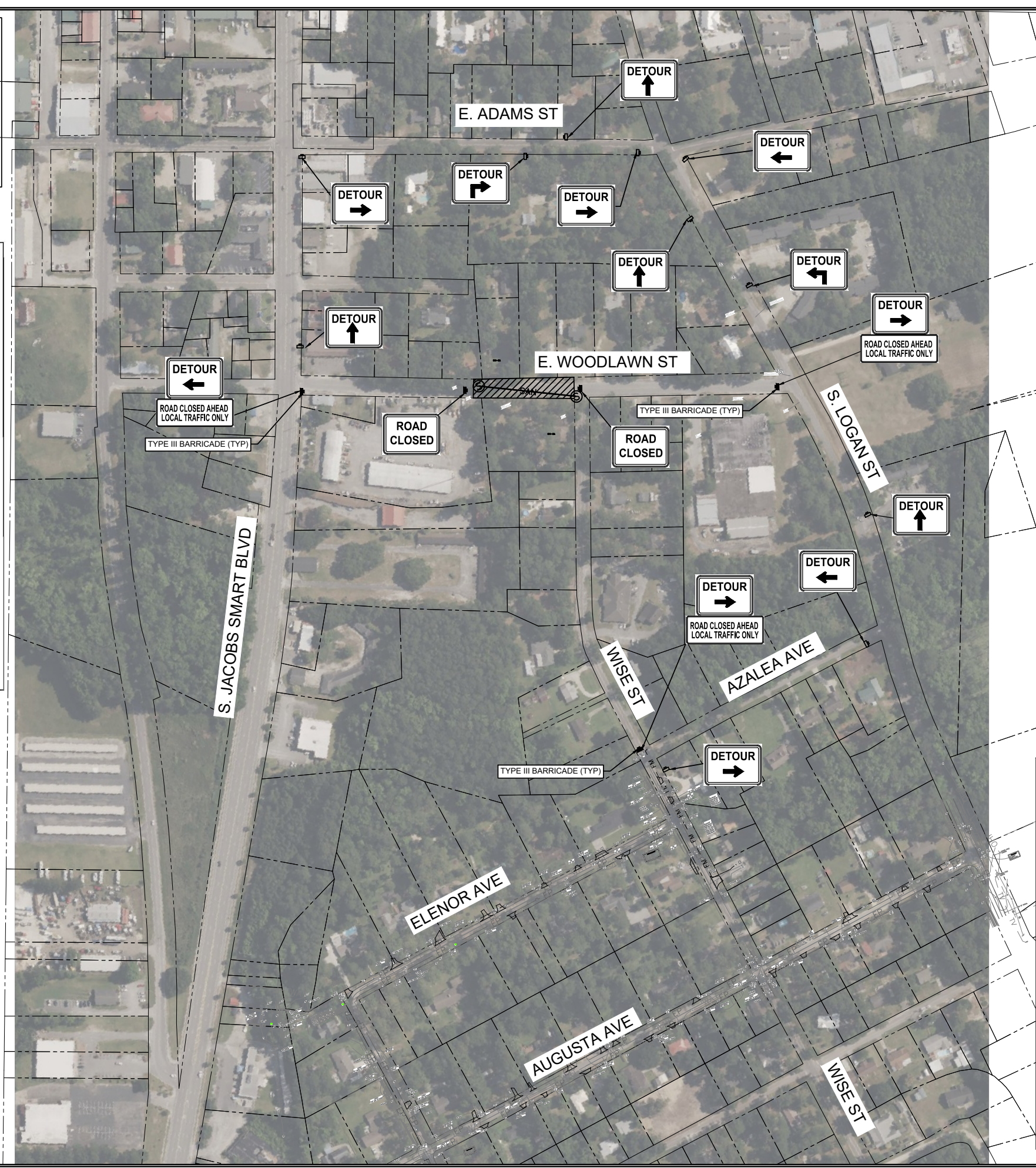
- TRAVEL DIRECTION
- SIGN
- TYPE III BARRICADE

SCALE (In Feet): 0, 40, 80

PROFESSIONAL ENGINEER
 No. 21839
 ANGELA B. BRYAN
 SOUTH CAROLINA
 REGISTERED PROFESSIONAL ENGINEER

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY ANGELA BRYAN PE ON THE DATE ADJACENT TO THE SEAL. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC VERSION.

FOUR WATERS ENGINEERING, INC.
 No. 5166
 SOUTH CAROLINA
 REGISTERED PROFESSIONAL ENGINEER



EXCAVATION SHALL BE COVERED AT THE END OF THE DAY. SEE NOTE 10

DETOURS ALLOWED BETWEEN 8AM AND 5PM

- GENERAL NOTES**
- ALL SIGN LOCATIONS ARE TO BE MEASURED FROM WORK AREA. WORK LIMITS FOR THE PROJECT WILL BE DETERMINED BY THE ENGINEER AND AS INDICATED IN THE CONTRACT.
 - IN AREAS WITH PAVED SHOULDERS OR CURB & GUTTER, GROUND MOUNT ALL DETOUR SIGN ASSEMBLIES 2 FEET FROM EITHER THE PAVEMENT EDGE OF A PAVED SHOULDER OR THE FACE OF A CURB. IN AREAS WITH NO PAVED SHOULDERS OR CURB & GUTTER, GROUND MOUNT ALL DETOUR SIGN ASSEMBLIES 6-12 FEET FROM THE NEAR EDGE OF AN ADJACENT TRAVEL LANE TO THE NEAREST EDGE OF THE SIGN ASSEMBLY. MOUNT EACH DETOUR SIGN ASSEMBLY SO THE BOTTOM EDGE OF THE BOTTOM SIGN HAS A MINIMUM MOUNTING HEIGHT OF NO LESS THAN 5 FEET ABOVE THE NEAR EDGE OF THE ADJACENT TRAVEL LANE. SPACING INDICATED ARE FOR NORMAL CONDITIONS; ADJUSTMENTS MAY BE REQUIRED DUE TO HORIZONTAL AND/OR VERTICAL ALIGNMENTS OR OTHER SIGHT RESTRICTIONS.
 - MOUNT ALL SIGNS SUCH THAT THEY ARE STRAIGHT AND LEVEL AND THE FACE OF THE SIGNS ARE PERPENDICULAR TO THE SURFACE OF THE ROADWAY.
 - REFLECTORIZE ALL DETOUR MARKERS, DETOUR SIGNS AND DETOUR ARROW SIGNS WITH FLUORESCENT ORANGE COLORED PRISMATIC REFLECTIVE SHEETING. REFLECTORIZE ALL ROUTE MARKER SIGNS AND ALL AUXILIARY SIGNS, INCLUDING BUT NOT LIMITED TO THE CARDINAL, DIRECTIONAL, ADVANCE TURN ARROW AND DIRECTIONAL ARROW AUXILIARY SIGNS, WITH A TYPE III HIGH INTENSITY ENCAPSULATED GLASS BEAD REFLECTIVE SHEETING.
 - ALL TRAFFIC CONTROL DEVICES INCLUDING TYPE III BARRICADES, PORTABLE SIGN SUPPORTS, SIGN SUBSTRATUMS, BREAKAWAY SYSTEMS FOR GROUND MOUNTED SIGN SUPPORTS, WARNING LIGHTS ETC., SHALL COMPLY WITH ALL NCHRP REPORT 350 REQUIREMENTS AND SHALL BE APPROVED BY THE DEPARTMENT. ALL APPROVED TRAFFIC CONTROL DEVICES ARE INCLUDED ON THE "APPROVED PRODUCTS LIST FOR TRAFFIC CONTROL DEVICES IN WORK ZONES". THIS LIST MAY BE ACCESSED ON THE DEPARTMENTS WEB SITE AT: WWW.SCDOT.ORG
 - SPECIAL SIGN MOUNTING ASSEMBLIES MAY BE NECESSARY IN AREAS OF CONCRETE MEDIAN BARRIER, BRIDGE PARAPET WALLS OR DOUBLE FACED GUARDRAIL AND SHALL BE PROVIDED BY THE CONTRACTOR.
 - REFLECTORIZE ALL BARRICADES WITH A TYPE III HIGH INTENSITY REFLECTIVE SHEETING UNLESS OTHERWISE DIRECTED BY THE DEPARTMENT.
 - ALL SUPPLEMENTAL SIGNS ATTACHED TO TYPE III BARRICADES SHALL BE CONSTRUCTED OF AN APPROVED REFLECTIVE ROLL-UP MATERIAL OR AN APPROVED ALUMINUM COMPOSITE MATERIAL. ONLY THOSE ALUMINUM COMPOSITE MATERIALS INCLUDED ON THE "APPROVED PRODUCTS LIST FOR TRAFFIC CONTROL DEVICES IN WORK ZONES" SUCH AS "ALPOLIC", "DIBOND", OR "REYNOLITE" ARE APPROVED. ALL OTHER RIGID SIGN SUBSTRATUMS, INCLUDING .08 AND .10 ALUMINUM SIGN BLANKS ARE PROHIBITED FOR ATTACHMENT TO A TYPE III BARRICADE
 - ALL EXCAVATION AREAS SHALL BE COVERED WITH STEEL PLATE TO SCDOT STANDARDS AND TRAFFIC RESTORED AT THE END OF THE WORK DAY

REV. NO.	DATE	DESCRIPTION
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TOWN OF RIDGELAND
 CDBG WATER AND SEWER IMPROVEMENTS

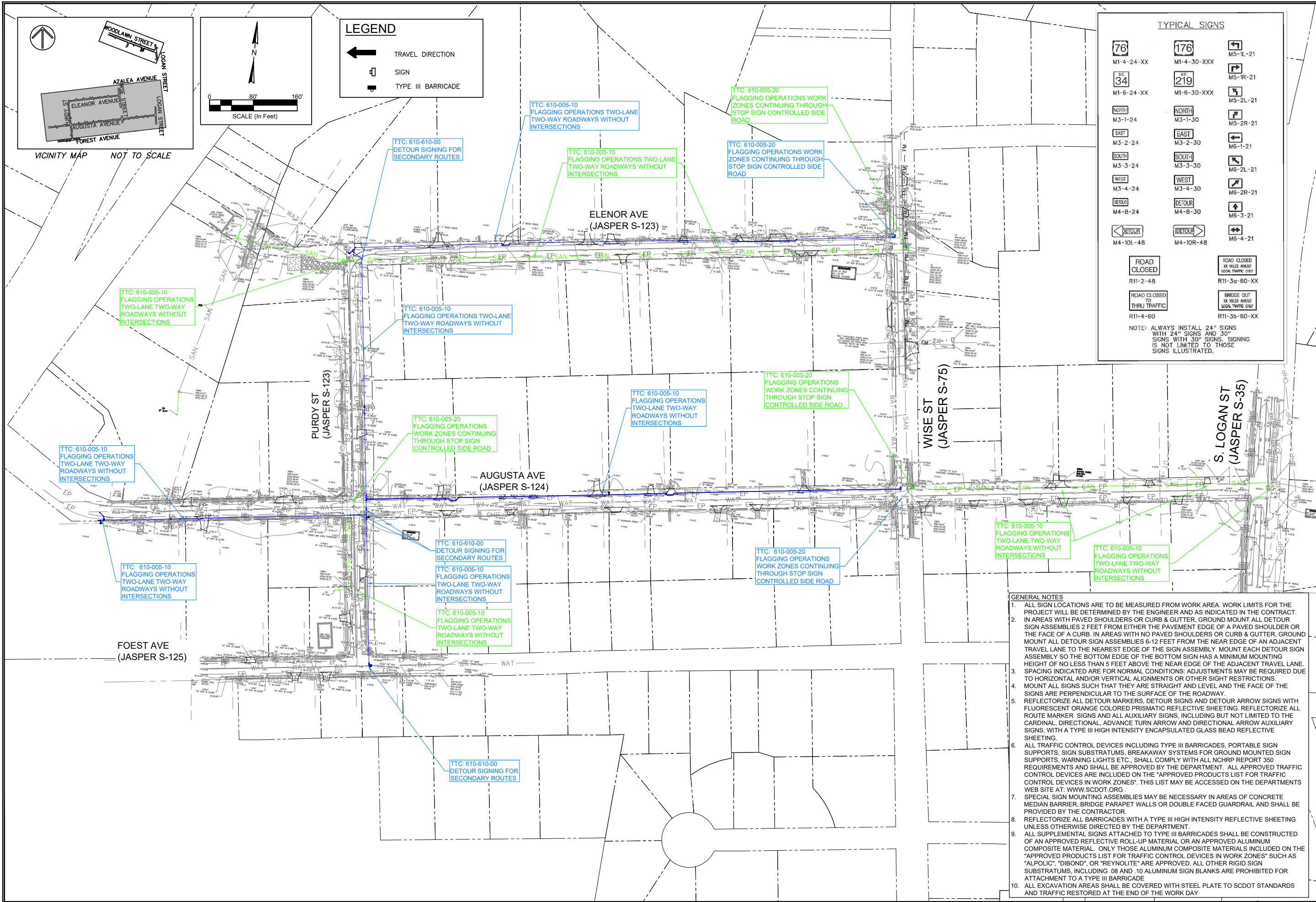
MAINTENANCE OF TRAFFIC PLAN

TOWN OF RIDGELAND
 SOUTH CAROLINA

DESIGN
 ABB: BRH
 JOB #: 17-1007-44
 ISSUE DATE: APRIL 2026
 ISSUE: 100%

FOUR WATERS ENGINEERING
 324 6th AVE. N. JACKSONVILLE BEACH, FLORIDA 32250
 844-414-2400 S.C. COA # 5166 WWW.4WENG.COM

DRAWING NUMBER
T-1



TYPICAL SIGNS

NOTE: ALWAYS INSTALL 24" SIGNS WITH 24" SIGNS AND 30" SIGNS WITH 30" SIGNS. SIGNING IS NOT LIMITED TO THOSE SIGNS ILLUSTRATED.

- GENERAL NOTES**
- ALL SIGN LOCATIONS ARE TO BE MEASURED FROM WORK AREA. WORK LIMITS FOR THE PROJECT WILL BE DETERMINED BY THE ENGINEER AND AS INDICATED IN THE CONTRACT.
 - IN AREAS WITH PAVED SHOULDERS OR CURB & GUTTER, GROUND MOUNT ALL DETOUR SIGN ASSEMBLIES 2 FEET FROM EITHER THE PAVEMENT EDGE OF A PAVED SHOULDER OR THE FACE OF A CURB. IN AREAS WITH NO PAVED SHOULDERS OR CURB & GUTTER, GROUND MOUNT ALL DETOUR SIGN ASSEMBLIES 6-12 FEET FROM THE NEAR EDGE OF AN ADJACENT TRAVEL LANE TO THE NEAREST EDGE OF THE SIGN ASSEMBLY. MOUNT EACH DETOUR SIGN ASSEMBLY SO THE BOTTOM EDGE OF THE BOTTOM SIGN HAS A MINIMUM MOUNTING HEIGHT OF NO LESS THAN 5 FEET ABOVE THE NEAR EDGE OF THE ADJACENT TRAVEL LANE. SPACING INDICATED ARE FOR NORMAL CONDITIONS; ADJUSTMENTS MAY BE REQUIRED DUE TO HORIZONTAL AND/OR VERTICAL ALIGNMENTS OR OTHER SIGHT RESTRICTIONS.
 - MOUNT ALL SIGNS SUCH THAT THEY ARE STRAIGHT AND LEVEL AND THE FACE OF THE SIGNS ARE PERPENDICULAR TO THE SURFACE OF THE ROADWAY.
 - REFLECTORIZE ALL DETOUR MARKERS, DETOUR SIGNS AND DETOUR ARROW SIGNS WITH FLUORESCENT ORANGE COLORED PRISMATIC REFLECTIVE SHEETING. REFLECTORIZE ALL ROUTE MARKER SIGNS AND ALL AUXILIARY SIGNS, INCLUDING BUT NOT LIMITED TO THE CARDINAL, DIRECTIONAL, ADVANCE TURN ARROW AND DIRECTIONAL ARROW AUXILIARY SIGNS, WITH A TYPE III HIGH INTENSITY ENCAPSULATED GLASS BEAD REFLECTIVE SHEETING.
 - ALL TRAFFIC CONTROL DEVICES INCLUDING TYPE III BARRICADES, PORTABLE SIGN SUPPORTS, SIGN SUBSTRATUMS, BREAKAWAY SYSTEMS FOR GROUND MOUNTED SIGN SUPPORTS, WARNING LIGHTS ETC., SHALL COMPLY WITH ALL NCHRP REPORT 350 REQUIREMENTS AND SHALL BE APPROVED BY THE DEPARTMENT. ALL APPROVED TRAFFIC CONTROL DEVICES ARE INCLUDED ON THE "APPROVED PRODUCTS LIST FOR TRAFFIC CONTROL DEVICES IN WORK ZONES". THIS LIST MAY BE ACCESSED ON THE DEPARTMENTS WEB SITE AT: WWW.SCDOT.ORG.
 - SPECIAL SIGN MOUNTING ASSEMBLIES MAY BE NECESSARY IN AREAS OF CONCRETE MEDIAN BARRIER, BRIDGE PARAPET WALLS OR DOUBLE FACED GUARDRAIL AND SHALL BE PROVIDED BY THE CONTRACTOR.
 - REFLECTORIZE ALL BARRICADES WITH A TYPE III HIGH INTENSITY REFLECTIVE SHEETING UNLESS OTHERWISE DIRECTED BY THE DEPARTMENT.
 - ALL SUPPLEMENTAL SIGNS ATTACHED TO TYPE III BARRICADES SHALL BE CONSTRUCTED OF AN APPROVED REFLECTIVE ROLL-UP MATERIAL OR AN APPROVED ALUMINUM COMPOSITE MATERIAL. ONLY THOSE ALUMINUM COMPOSITE MATERIALS INCLUDED ON THE "APPROVED PRODUCTS LIST FOR TRAFFIC CONTROL DEVICES IN WORK ZONES" SUCH AS "ALPOLIC", "DIBOND", OR "REYNOLITE" ARE APPROVED. ALL OTHER RIGID SIGN SUBSTRATUMS, INCLUDING .08 AND .10 ALUMINUM SIGN BLANKS ARE PROHIBITED FOR ATTACHMENT TO A TYPE III BARRICADE.
 - ALL EXCAVATION AREAS SHALL BE COVERED WITH STEEL PLATE TO SCDOT STANDARDS AND TRAFFIC RESTORED AT THE END OF THE WORK DAY.

SOUTH CAROLINA PROFESSIONAL ENGINEER
 No. 21839
 ANGELA B. BRYAN

SOUTH CAROLINA PROFESSIONAL ENGINEER
 No. 5166
 FOUR WATERS ENGINEERING, INC.

REV. NO.	DATE	DESCRIPTION
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TOWN OF RIDGELAND
 CDBG WATER AND SEWER IMPROVEMENTS

MAINTENANCE OF TRAFFIC PLAN

TOWN OF RIDGELAND
 SOUTH CAROLINA

DESIGN
 ABB: BRH
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 324 6th AVE. N. JACKSONVILLE BEACH, FLORIDA 32250
 844-414-2400 S.C. COA # 5166 WWW.FWENG.COM

DRAWING NUMBER
T-2

REFERENCES

FLAGGING OPERATIONS
GENERAL NOTES

(ALL NOTES, SPECIFICATIONS AND REQUIREMENTS ON THIS STANDARD DRAWING APPLY TO ALL SUBSEQUENT STANDARD DRAWINGS REGARDING FLAGGING OPERATIONS UNLESS OTHERWISE NOTED)

FLAGGING OPERATIONS -

1. KEY FEATURES RELEVANT TO FLAGGING OPERATIONS:

- APPROACH TAPER** - THIS IS A ONE-LANE TWO-WAY TAPER PLACED IN THE TRAVEL LANE WHERE THE WORK ACTIVITY TAKES PLACE. THIS TAPER PRECEDES THE BUFFER SPACE AND THE WORK ACTIVITY AREA. THE LENGTH OF THIS TAPER MAY VARY FROM 50 FEET TO 100 FEET. INSTALL AND MAINTAIN NO LESS THAN FIVE (5) TRAFFIC CONTROL DEVICES EQUALLY SPACED AT 10' TO 25' INTERVALS AS NECESSARY TO CORRESPOND WITH THE LENGTH OF THE TAPER.
- DOWNSTREAM TAPER** - THIS TAPER, PLACED IN THE TRAVEL LANE WHERE THE WORK ACTIVITY TAKES PLACE, FOLLOWS THE WORK ACTIVITY AREA AND SERVES AS THE TERMINATION AREA FOR THE CLOSURE OF THE TRAVEL LANE. THE LENGTH OF THIS TAPER MAY VARY FROM 50 FEET TO 100 FEET. INSTALL AND MAINTAIN NO LESS THAN FIVE (5) TRAFFIC CONTROL DEVICES IN THIS TAPER.
- FLAGGER STATION** - THIS IS THE SPECIFIC LOCATION OF THE FLAGGER.
- CLOSED LANE FLAGGER** - THIS FLAGGER IS STATIONED ADJACENT TO THE FIRST TRAFFIC CONTROL DEVICE IN THE APPROACH TAPER WHO CONTROLS THE TRAFFIC THAT REQUIRES RELOCATION FROM THE TRAVEL LANE BEING CLOSED TO TRAFFIC.
- OPEN LANE FLAGGER** - THIS FLAGGER IS STATIONED 100 FEET BEYOND THE LAST TRAFFIC CONTROL DEVICE IN THE DOWNSTREAM TAPER WHO CONTROLS THE TRAFFIC OPERATING IN THE TRAVEL LANE REMAINING OPEN TO TRAFFIC.
- SIDE ROAD FLAGGER** - THIS FLAGGER IS STATIONED ON AN INTERSECTING SIDE ROAD AND CONTROLS THE SIDE ROAD TRAFFIC ENTERING INTO THE ROADWAY WHERE THE WORK ACTIVITY AREA IS LOCATED.
- BUFFER SPACE** - THIS AREA IS LOCATED BETWEEN THE DOWNSTREAM END OF THE APPROACH TAPER AND THE NEAREST LIMITS OF THE WORK ACTIVITY AREA AND MAY PROVIDE SOME RECOVERY SPACE FOR AN ERRANT VEHICLE. THE PRESENCE OF PERSONNEL, TOOLS, MATERIALS, EQUIPMENT, WORK VEHICLES, ETC. WITHIN THE LIMITS OF THE BUFFER SPACE IS PROHIBITED. HOWEVER, WHEN THE MINIMUM DISTANCE REQUIREMENTS FOR THE BUFFER SPACE ARE UNAVAILABLE, A TRUCK MOUNTED ATTENUATOR MAY TEMPORARILY ENCR OACH UPON THE BUFFER SPACE IN ACCORDANCE WITH THE REQUIREMENTS SPECIFIED IN THE SECTION BELOW ENTITLED, "BUFFER SPACE", WHEN APPROVED BY THE ENGINEER.

- WORK ACTIVITY AREA** - PERSONNEL, MATERIALS, EQUIPMENT, WORK VEHICLES, ETC. ARE PRESENT WITHIN THIS AREA TO CONDUCT THE WORK.
- LIMITS of the WORK ACTIVITY AREA** - THIS IS THE BOUNDARY OF THE WORK ACTIVITY AREA FIRST ENCOUNTERED, FROM EITHER DIRECTION, BY MOTORISTS PASSING BY THE WORK ACTIVITY AREA IN THE ADJACENT TRAVEL LANE OPEN TO TRAFFIC AND CONTROLLED BY THE FLAGGERS.
- APPROACH LANE** - TRAFFIC APPROACHES AN INTERSECTION OR A SPECIFIC LOCATION IN THIS TRAVEL LANE.
- DEPARTURE LANE** - TRAFFIC DEPARTS FROM AN INTERSECTION OR A SPECIFIC LOCATION IN THIS TRAVEL LANE.
- MAINLINE APPROACH** - THIS IS AN APPROACH TO THE WORK ACTIVITY AREA ON THE ROADWAY WHERE THE WORK ACTIVITY AREA IS LOCATED.
- SIDE ROADS** - THESE ROADS INTERSECT THE ROADWAY ON WHICH THE WORK ACTIVITY AREA IS LOCATED.
- LIMITS of the INTERSECTION** - THE LIMITS OF OR THE PHYSICAL AREA WITHIN AN INTERSECTION IS DEFINED BY THE LOCATION OF STOP BARS WHEN PRESENT, WHEN STOP BARS ARE ABSENT, THE LIMITS OF OR THE PHYSICAL AREA WITHIN AN INTERSECTION IS DEFINED BY THE LOCATION POINTS WHERE THE CORNER RADII BETWEEN ADJACENT ROADWAY APPROACHES TIE TO THE EDGE OF PAVEMENT OR THE EDGE OF TRAVEL LANE ADJACENT TO THE EDGE OF PAVEMENT OF EACH ROADWAY.

- INSTALL, CONDUCT AND MAINTAIN FLAGGING OPERATIONS IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS, THE STANDARD DRAWINGS, THE MUTCD AND THE "SOUTH CAROLINA FLAGGER'S HANDBOOK" UNLESS OTHERWISE DIRECTED BY THE DEPARTMENT. INSTALL ALL SIGNS RELATIVE TO A FLAGGING OPERATION PRIOR TO INITIATION OF THE OPERATION AND REMOVE OR COVER ALL SIGNS IMMEDIATELY UPON TERMINATION OF THE OPERATION. EQUIP EACH FLAGGER WITH A 24" x 24" STOP/SLOW PADDLE MOUNTED ON A RIGID HANDLE WITH A MINIMUM LENGTH OF 7 FEET. THE DEPARTMENT PROHIBITS THE USE OF FLAGS EXCEPT DURING EMERGENCY SITUATIONS.
- LANE CLOSURES FOR FLAGGING OPERATIONS ARE RESTRICTED TO A MAXIMUM DISTANCE OF 2 MILES UNLESS OTHERWISE APPROVED BY THE ENGINEER. THE WORK LIMITS WILL COMPLY WITH THE CONTRACT AND SHALL REQUIRE THE ENGINEER'S APPROVAL PRIOR TO BEGINNING THE WORK.
- INSTALL AND MAINTAIN THE PROPER ARRAY OF ADVANCE WARNING SIGNS FOR EACH "MAINLINE APPROACH" WHEN A FLAGGING OPERATION IS IN PLACE AND ACTIVE. WHEN NECESSARY TO RELOCATE THE "FLAGGER STATION" WHILE ACTIVELY MAINTAINING THE FLAGGING OPERATION, INSTALL AN ADDITIONAL ARRAY OF ADVANCE WARNING SIGNS AT THE LOCATION RELATIVE TO THE NEW "FLAGGER STATION" AND REMOVE THE ORIGINAL ARRAY OF ADVANCE WARNING SIGNS IMMEDIATELY UPON COMPLETION OF THE RELOCATION OF THE FLAGGER TO THE NEW "FLAGGER STATION".
- INSTALL ALL ADVANCE WARNING SIGNS IMMEDIATELY PRIOR TO INITIATING A FLAGGING OPERATION AND REMOVE OR COVER ALL SIGNS IMMEDIATELY UPON TERMINATION OF THE OPERATION.
- MAINTAIN TWO-WAY RADIO COMMUNICATIONS BETWEEN ALL FLAGGERS.

NIGHTTIME FLAGGING OPERATIONS -

- EACH FLAGGER SHALL WEAR SAFETY APPAREL IN COMPLIANCE WITH THE REQUIREMENTS OF ANSI / ISEA 107 STANDARD PERFORMANCE FOR CLASS 3 RISK EXPOSURE, LATEST REVISION, WHEN CONDUCTING NIGHTTIME FLAGGING OPERATIONS.
- ILLUMINATE EACH "FLAGGER STATION" WITH ANY COMBINATION OF PORTABLE LIGHTS, STANDARD ELECTRIC LIGHTS, EXISTING STREET LIGHTS, ETC. THAT WILL PROVIDE A MINIMUM ILLUMINATION LEVEL OF 108 Lx OR 10 fc WHEN CONDUCTING NIGHTTIME FLAGGING OPERATIONS.
- SUPPLEMENT EACH ARRAY OF ADVANCE WARNING SIGNS ON EACH "MAINLINE APPROACH" WITH A TRAILER MOUNTED CHANGEABLE MESSAGE SIGN. THESE CHANGEABLE MESSAGE SIGNS ARE NOT REQUIRED ON THE "SIDE ROADS" INTERSECTING THE ROADWAY WHERE THE "WORK ACTIVITY AREA" IS LOCATED. ALSO, THESE CHANGEABLE MESSAGE SIGNS ARE NOT REQUIRED DURING DAYTIME FLAGGING OPERATIONS UNLESS OTHERWISE DIRECTED BY THE STANDARD DRAWINGS. INSTALL THE CHANGEABLE MESSAGE SIGNS IN ADVANCE OF THE ADVANCE WARNING SIGN ARRAYS. THE MESSAGES SHOULD BE "PREPARE TO STOP", "FLAGGER AHEAD". A TRUCK MOUNTED CHANGEABLE MESSAGE SIGN IS NOT AN ACCEPTABLE ALTERNATIVE TO A TRAILER MOUNTED CHANGEABLE MESSAGE SIGN DURING NIGHTTIME FLAGGING OPERATIONS.
- UTILIZE PORTABLE PLASTIC DRUMS OR 42" OVERSIZED TRAFFIC CONES IN PLACE OF 36" STANDARD TRAFFIC CONES DURING NIGHTTIME FLAGGING OPERATIONS.

BUFFER SPACE -

- THE MINIMUM DISTANCE REQUIREMENTS FOR THE "BUFFER SPACE" ARE BASED UPON THE LEGAL POSTED REGULATORY SPEED LIMIT OF THE ROADWAY PRIOR TO BEGINNING THE WORK.

SPEED LIMIT	DISTANCES
LOW SPEED ≤ 35 MPH	200 FEET
INTERMEDIATE SPEED 40 - 50 MPH	300 FEET
HIGH SPEED 55 MPH	400 FEET

- THE PRESENCE OF PERSONNEL, TOOLS, MATERIALS, EQUIPMENT, WORK VEHICLES, ETC. WITHIN THE LIMITS OF THE "BUFFER SPACE" IS PROHIBITED. A TRUCK MOUNTED ATTENUATOR IS THE ONLY WORK VEHICLE THAT MAY TEMPORARILY ENCR OACH UPON THE "BUFFER SPACE" IN ACCORDANCE WITH THE CONDITIONS SPECIFIED IN THE FOLLOWING NOTE WHEN APPROVED BY THE ENGINEER. SEE NOTE NO. 3.
- WHEN THE MINIMUM DISTANCE REQUIREMENTS FOR THE "BUFFER SPACE" ARE UNAVAILABLE DUE TO FIELD CONDITIONS, IT MAY BE NECESSARY FOR A TRUCK MOUNTED ATTENUATOR TO TEMPORARILY ENCR OACH UPON THE "BUFFER SPACE" WHEN APPROVED BY THE ENGINEER. A TRUCK MOUNTED ATTENUATOR IS THE ONLY VEHICLE PERMITTED TO TEMPORARILY ENCR OACH UPON THE "BUFFER SPACE" AND THIS ENCR OACHMENT IS ONLY PERMITTED WHEN ALL REASONABLE OPTIONS TO AVOID DOING SO HAVE BEEN EXHAUSTED. WHEN ENCR OACHMENT UPON THE "BUFFER SPACE" IS APPROVED BY THE ENGINEER, MINIMIZE THE TIME DURATION OF THE ENCR OACHMENT BY REMOVAL OF THE TRUCK MOUNTED ATTENUATOR FROM THE "BUFFER SPACE" AT THE FIRST OPPORTUNITY THE MINIMUM DISTANCE REQUIREMENTS FOR THE "BUFFER SPACE" BECOME AVAILABLE.

SIGNS AND TRAFFIC CONTROL DEVICES -

- MEASURE THE ADVANCE WARNING SIGN LOCATIONS FOR EACH APPROACH FROM THE "FLAGGER STATION" LOCATED ON THAT APPROACH.
- INSTALL THE ADVANCE WARNING SIGNS AS SPACING INTERVALS BASED UPON THE POSTED REGULATORY SPEED LIMIT OF THE ROADWAY PRIOR TO BEGINNING ANY WORK. THE ADVANCE WARNING SIGN SPACING INTERVALS INDICATED ARE FOR NORMAL CONDITIONS. ADJUSTMENTS TO THESE DISTANCES MAY BE NECESSARY DUE TO EXISTING SIGNS, INTERSECTING ROADWAYS, HORIZONTAL AND/OR VERTICAL ALIGNMENTS OR OTHER SIGHT DISTANCE RESTRICTIONS. SEE TABLE A.
- INSTALL ADVANCE WARNING SIGNS MOUNTED ON PORTABLE SIGN SUPPORTS NO LESS THAN 4 FEET FROM THE NEAR EDGE OF THE SIGN TO THE NEAR EDGE OF AN ADJACENT TRAVEL LANE ON ROADWAYS WITH EARTH SHOULDERS AND NO LESS THAN 6 FEET FROM THE NEAR EDGE OF THE SIGN TO THE NEAR EDGE OF AN ADJACENT TRAVEL LANE ON ROADWAYS WITH PAVED SHOULDERS. WHEN CURB & GUTTER IS PRESENT, INSTALL THE SIGN NO LESS THAN 2 FEET FROM THE NEAR EDGE OF THE SIGN TO THE FACE OF THE CURB.
- ALL SIGNS MOUNTED ON PORTABLE SIGN SUPPORTS SHALL HAVE A MINIMUM MOUNTING HEIGHT OF 5 FEET FROM THE GROUND TO THE BOTTOM OF THE SIGN. ALL SIGNS MOUNTED ON GROUND MOUNTED U-CHANNEL OR SQUARE STEEL TUBE POSTS SHALL HAVE A MINIMUM MOUNTING HEIGHT OF 7 FEET FROM THE GRADE ELEVATION OF THE NEAR EDGE OF THE ADJACENT TRAVEL LANE TO THE BOTTOM OF THE SIGN UNLESS OTHERWISE DIRECTED BY THE DEPARTMENT. MOUNT ALL SIGNS STRAIGHT AND LEVEL AND WITH THE FACE OF THE SIGNS PERPENDICULAR TO THE SURFACE OF THE ROADWAY.
- REFLECTORIZE ORANGE ADVANCE WARNING SIGNS AND ANY ORANGE AREAS OF A MULTI-COLORED ADVANCE WARNING SIGN WITH A FLUORESCENT ORANGE COLORED PRISMATIC RETROREFLECTIVE SHEETING. REFLECTORIZE WHITE REGULATORY SIGNS AND ANY WHITE AREAS OF A MULTI-COLORED ADVANCE WARNING SIGN WITH A WHITE COLORED PRISMATIC RETROREFLECTIVE SHEETING.
- ALL TRAFFIC CONTROL DEVICES SHALL COMPLY WITH THE REQUIREMENTS OF NCHRP REPORT 350 OR THE AASHTO MANUAL FOR ASSESSING SAFETY HARDWARE (MASH) AND SHALL REQUIRE APPROVAL BY THE DEPARTMENT. ONLY THOSE TRAFFIC CONTROL DEVICES INCLUDED ON THE "APPROVED PRODUCTS LIST FOR TRAFFIC CONTROL DEVICES IN WORK ZONES" ARE CONSIDERED ACCEPTABLE FOR USE. THIS LIST MAY BE ACCESSED ON THE DEPARTMENT'S WEB SITE AT: www.scdot.org
- REFLECTORIZATION OF 36" TRAFFIC CONES USED DURING DAYLIGHT HOURS IS NOT REQUIRED. IN THE EVENT A DAYTIME FLAGGING OPERATION EXTENDS INTO THE NIGHTTIME HOURS, REPLACE ALL 36" TRAFFIC CONES WITH EITHER PORTABLE PLASTIC DRUMS OR 42" OVERSIZED TRAFFIC CONES. REFLECTORIZE ALL PORTABLE PLASTIC DRUMS AND 42" OVERSIZED TRAFFIC CONES WITH TYPE III OR GREATER FLEXIBLE MICROPRISMATIC RETROREFLECTIVE SHEETING UNLESS OTHERWISE DIRECTED BY THE DEPARTMENT.
- DELINEATE THE TANGENT AREA OF THE LANE CLOSURE WITH THE NECESSARY TRAFFIC CONTROL DEVICES TO MINIMIZE ENCR OACHMENT BY MOTORISTS INTO THE CLOSED TRAVEL LANE UNLESS OTHERWISE DIRECTED BY THE ENGINEER. ON ROADWAYS WITH POSTED REGULATORY SPEED LIMITS OF 35 MPH OR LESS, INSTALL THE TRAFFIC CONTROL DEVICES AT SPACING INTERVALS OF 25 FEET. ON ROADWAYS WITH POSTED REGULATORY SPEED LIMITS OF 40 MPH OR GREATER, INSTALL THE TRAFFIC CONTROL DEVICES AT SPACING INTERVALS OF 50 FEET. SEE TABLE B.

ADVANCE WARNING ARROW PANEL -

- DURING FLAGGING OPERATIONS, AN ADVANCE WARNING ARROW PANEL SHALL OPERATE IN THE "FOUR CORNERS" CAUTION MODE WHEN LOCATED WITHIN OR IN BETWEEN THE LIMITS OF THE ADVANCE WARNING SIGN ARRAYS SPECIFIC TO A FLAGGING OPERATION. OPERATION OF AN ADVANCE WARNING ARROW PANEL IN AN ARROW, CHEVRON OR ANY OTHER TYPE OF CAUTION MODE OTHER THAN THE "FOUR CORNERS" CAUTION MODE WHEN LOCATED WITHIN OR IN BETWEEN THE LIMITS OF THE ADVANCE WARNING SIGN ARRAYS AS SPECIFIED HEREINBEFORE IS PROHIBITED.
- ALL ADVANCE WARNING ARROW PANELS SHALL COMPLY WITH THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, LATEST EDITION. THE SPECIFIC LOCATION OF AN ADVANCE WARNING ARROW PANEL MAY REQUIRE ADJUSTMENTS DUE TO HORIZONTAL AND/OR VERTICAL ALIGNMENT OR OTHER SIGHT DISTANCE RESTRICTIONS.

TRUCK MOUNTED ATTENUATOR -

- A TRUCK MOUNTED ATTENUATOR IS OPTIONAL. UTILIZATION OF A TRUCK MOUNTED ATTENUATOR SHOULD BE CONSIDERED WHEN THE MINIMUM DISTANCE REQUIREMENTS FOR THE "BUFFER SPACE" ARE UNAVAILABLE DUE TO FIELD CONDITIONS. HOWEVER, A TRAILER MOUNTED ADVANCE WARNING ARROW PANEL MAY BE UTILIZED IN PLACE OF A TRUCK MOUNTED ATTENUATOR DURING TRAFFIC CONTROL SETUPS FOR WORK ACTIVITIES SUCH AS ASPHALT CONCRETE PLACEMENT OPERATIONS WHEN APPROVED BY THE ENGINEER.
- WHEN UTILIZING A TRUCK MOUNTED ATTENUATOR, ENSURE THE TRUCK HAS THE CORRECT GROSS VEHICULAR WEIGHT (GVW) REQUIRED FOR THE TYPE OF TRUCK MOUNTED ATTENUATOR BEING UTILIZED. A DIRECT TRUCK MOUNTED TRUCK MOUNTED ATTENUATOR, A UNIT MOUNTED AND ATTACHED TO BRACKETS OR SIMILAR DEVICES CONNECTED TO THE FRAME OF THE TRUCK, REQUIRES A TRUCK WITH A MINIMUM GVW OF 15,000 POUNDS (ACTUAL WEIGHT) UNLESS OTHERWISE DIRECTED BY THE DEPARTMENT. A TRAILER TOWED TRUCK MOUNTED ATTENUATOR, A TRAILER TYPE UNIT TOWED FROM BEHIND AND ATTACHED TO THE FRAME OF THE TRUCK VIA A PIVOT HOOK / HITCH, REQUIRES A TRUCK WITH A MINIMUM GVW OF 10,000 POUNDS (ACTUAL WEIGHT) UNLESS OTHERWISE DIRECTED BY THE DEPARTMENT. IF THE ADDITION OF SUPPLEMENTAL WEIGHT TO THE VEHICLE AS BALLAST IS NECESSARY, CONTAIN THE MATERIAL WITHIN A STRUCTURE CONSTRUCTED OF STEEL. CONSTRUCT THIS STEEL STRUCTURE TO HAVE A MINIMUM OF FOUR (4) SIDES AND A BOTTOM. A TOP IS OPTIONAL. BOLT THIS STRUCTURE TO THE FRAME OF THE TRUCK. UTILIZE A SUFFICIENT NUMBER OF FASTENERS FOR ATTACHMENT OF THE STEEL STRUCTURE TO THE FRAME OF THE TRUCK TO ENSURE THE STRUCTURE WILL NOT SEPARATE FROM THE FRAME OF THE TRUCK DURING AN IMPACT UPON THE TRUCK MOUNTED ATTENUATOR. UTILIZE EITHER DRY LOOSE SAND OR STEEL REINFORCED CONCRETE FOR BALLAST MATERIAL WITHIN THE STEEL STRUCTURE TO ACHIEVE THE NECESSARY WEIGHT. THE BALLAST MATERIAL SHALL REMAIN CONTAINED WITHIN THE CONFINES OF THE STEEL STRUCTURE IN ITS ENTIRETY AND SHALL NOT PROTRUDE FROM THE STEEL STRUCTURE IN ANY MANNER.
- LOCATE THE TRUCK MOUNTED ATTENUATOR APPROXIMATELY 100 FEET IN ADVANCE OF THE "WORK ACTIVITY AREA" UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- PROVIDE, INSTALL AND MAINTAIN THE TRUCK MOUNTED ATTENUATOR AS SPECIFIED BY THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER.

GENERAL -

- CONDUCT THE WORK IN SUCH A MANNER SO AS NOT TO ENCR OACH ONTO THE ADJACENT TRAVEL LANE OPEN TO TRAFFIC. INSTALL, MAINTAIN AND ADJUST THE TRAFFIC CONTROL DEVICES AS NECESSARY TO ENSURE PROPER DELINEATION OF THE WORK AREA.
- IF WORK IS BEING CONDUCTED AT TWO DIFFERENT LOCATIONS AT THE SAME TIME, SEPARATE THE TWO LOCATIONS BY NO LESS THAN 2 MILES FROM THE LAST TRAFFIC CONTROL DEVICE IN THE "DOWNSTREAM TAPER" OF THE FIRST LANE CLOSURE TO THE FIRST TRAFFIC CONTROL DEVICE IN THE "APPROACH TAPER" OF THE SECOND LANE CLOSURE ENCOUNTERED BY A MOTORIST UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- THE DEPARTMENT RESERVES THE RIGHT TO RESTRICT WORK OPERATIONS AND/OR WITHHOLD THE MONTHLY ESTIMATE IF THE TRAFFIC CONTROL IS NOT PROPERLY INSTALLED AND MAINTAINED AS DIRECTED BY THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, THE STANDARD DRAWINGS, THE PLANS AND/OR THE ENGINEER.

TABLE A

SIGN PLACEMENT INTERVALS	
SPEED LIMIT	*
≤ 35 MPH LOW SPEED	200
40 - 50 MPH INTERMEDIATE SPEED	350
55 MPH HIGH SPEED	500

* REGULATORY POSTED SPEED LIMIT PRIOR TO BEGINNING WORK

TABLE B

TRAFFIC CONTROL DEVICE SPACING INTERVALS WORK ACTIVITY / BUFFER SPACE AREAS	
SPEED LIMIT	SPACING INTERVALS
≤ 35 MPH	25 FEET
40 - 55 MPH	50 FEET

WORK ZONE TRAFFIC CONTROL ENGINEER



Willie E. McConnell, Jr.
SIGNATURE
6/1/2019
DATE

#	DATE	CHK	DESCRIPTION
5			
4			
3			
2			
1	4-27-18	WEM	REVISED FLAGGING OPERATIONS NOTE 1
0	1-14-15	JCS	NEW DRAWING

SCDOT
SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION
DESIGN STANDARDS OFFICE
955 PARK STREET
ROOM 405
COLUMBIA, SC 29201

STANDARD DRAWING

FLAGGING OPERATIONS
TWO-LANE TWO-WAY
PRIMARY &
SECONDARY ROUTES

610-005-00

EFFECTIVE LETTING DATE JAN 2019

THIS DRAWING IS NOT TO SCALE



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REV. NO.	DATE	BY	DESCRIPTION
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TOWN OF RIDGELAND
CDBG WATER AND SEWER IMPROVEMENTS
MAINTENANCE OF TRAFFIC PLAN
TOWN OF RIDGELAND
SOUTH CAROLINA

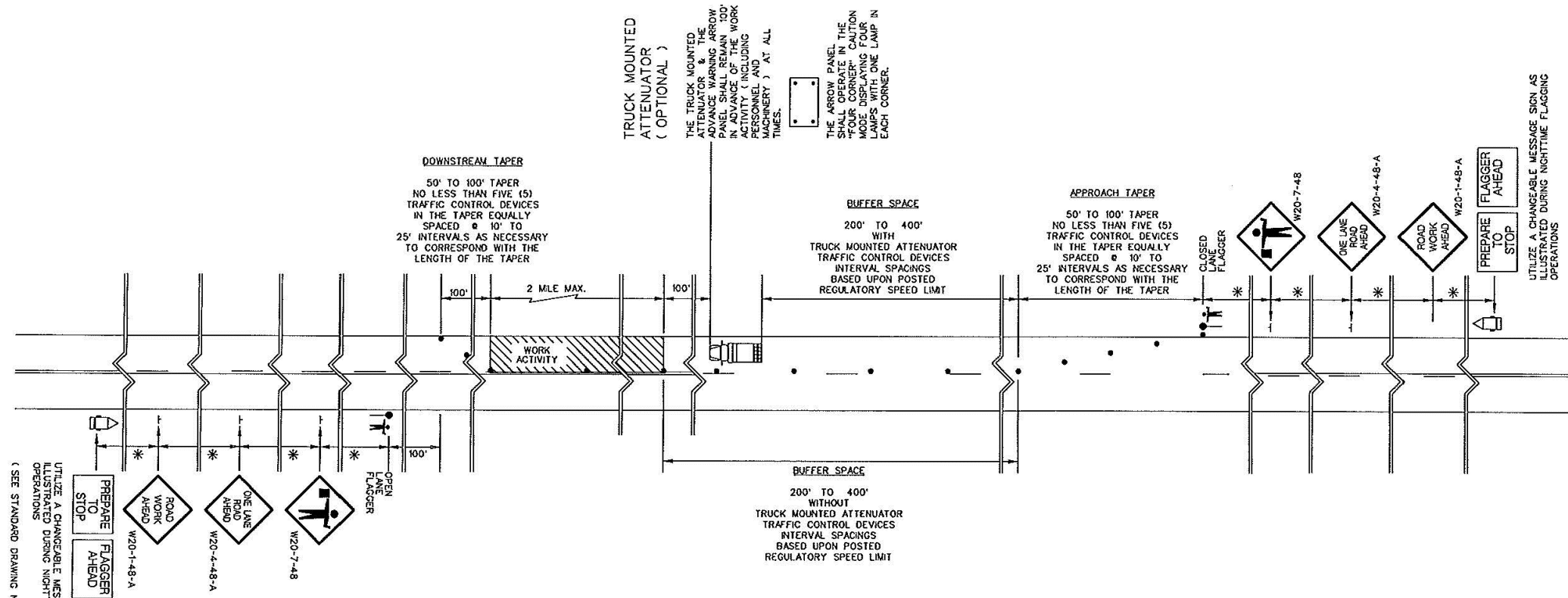
DESIGN ABB	BRN	DATE	ISSUE	ISSUE
17-1007-44		APRIL 2016		100%

FOUR WATERS ENGINEERING
324 6th AVE. N. JACKSONVILLE BEACH, FLORIDA 32250
844-414-2400 S.C. COA # 5166 WWW.4WENG.COM

DRAWING NUMBER
T-3

DRAWING 610-005-10 NOTES

1. SEE STANDARD DRAWING NO. 610-005-00 FOR ALL GENERAL NOTES AND REQUIREMENTS.



UTILIZE A CHANGEABLE MESSAGE SIGN AS ILLUSTRATED DURING NIGHTTIME FLAGGING OPERATIONS.
(SEE STANDARD DRAWING NO. 610-005-00)

TABLE A

SIGN PLACEMENT INTERVALS	
SPEED LIMIT	*
# ≤ 35 MPH LOW SPEED	200
# 40 - 50 MPH INTERMEDIATE SPEED	350
# 55 MPH HIGH SPEED	500

* REGULATORY POSTED SPEED LIMIT PRIOR TO BEGINNING WORK

TABLE B

TRAFFIC CONTROL DEVICE SPACING INTERVALS WORK ACTIVITY / BUFFER SPACE AREAS	
SPEED LIMIT	SPACING INTERVALS
≤ 35 MPH	25 FEET
40 - 55 MPH	50 FEET

REFERENCES

WORK ZONE TRAFFIC CONTROL ENGINEER



SIGNATURE
Willie E. McConnell, Jr.
DATE
7/27/15

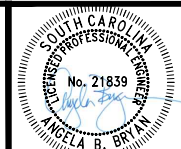
#	DATE	CHK	DESCRIPTION
0	1-15-15	JCS	NEW DRAWING
1			
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6			

SCDOT
SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION
DESIGN STANDARDS OFFICE
955 PARK STREET
ROOM 405
COLUMBIA, SC 29201

STANDARD DRAWING

FLAGGING OPERATIONS
TWO-LANE TWO-WAY
ROADWAYS
WITHOUT INTERSECTIONS

610-005-10
EFFECTIVE LETTING DATE | JAN 2016



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TOWN OF RIDGELAND
CDBG WATER AND SEWER IMPROVEMENTS
MAINTENANCE OF TRAFFIC PLAN
TOWN OF RIDGELAND
SOUTH CAROLINA

DESIGN ABB	BRH	JOB #	ISSUE DATE	ISSUE
ABB	BRH	17-1007-44	APRIL 2016	100%

FOUR WATERS ENGINEERING
324 6th AVE. N. JACKSONVILLE BEACH, FLORIDA 32250
844-414-2400 S.C. COA # 5166 WWW.FWENG.COM

DRAWING NUMBER
T-4

REFERENCES

DRAWING 610-005-20 NOTES

- SEE STANDARD DRAWING NO. 610-005-00 FOR ALL GENERAL NOTES AND REQUIREMENTS. THE FOLLOWING NOTES ARE SPECIFIC REQUIREMENTS FOR THIS STANDARD DRAWING.
- WHEN THE WORK ZONE PROCEEDS THROUGH OR MUST ENCR OACH UPON THE "LIMITS OF THE INTERSECTION", DO NOT ALLOW THE "APPROACH TAPER" OR THE "DOWNSTREAM TAPER" OF THE LANE CLOSURE TO ENCR OACH UPON THE "LIMITS OF THE INTERSECTION". ONLY THE "BUFFER SPACE" OR THE "WORK ACTIVITY AREA" OF THE LANE CLOSURE MAY ENCR OACH UPON THE "LIMITS OF THE INTERSECTION".
- WHEN THE WORK ZONE PROCEEDS THROUGH OR MUST ENCR OACH UPON THE "LIMITS OF THE INTERSECTION" WITH "STOP SIGN CONTROLLED" "SIDE ROADS", UTILIZE FLAGGERS TO CONTROL THE TRAFFIC FROM THE INTERSECTING "SIDE ROADS" UNLESS OTHERWISE DIRECTED BY THE ENGINEER. MAINTAIN THESE FLAGGERS IN PLACE FOR THE DURATION THAT ANY PORTION OF THE "BUFFER SPACE" OR THE "WORK ACTIVITY AREA" MAY ENCR OACH UPON THE "LIMITS OF THE INTERSECTION".
- WHEN THE WORK ZONE PROCEEDS THROUGH OR MUST ENCR OACH UPON THE "LIMITS OF THE INTERSECTION" WITH "STOP SIGN CONTROLLED" "SIDE ROADS", THE CONTRACTOR SHOULD CONTINUE THE WORK OPERATIONS THROUGH THE INTERSECTION TO A LOCATION POINT BEYOND THE "LIMITS OF THE INTERSECTION" THAT WILL PERMIT THE WORK TRAIN TO CLEAR THE INTERSECTION AND THE LOCATION OF THE SUBSEQUENT "FLAGGER STATION" BE NO LESS THAN 200' PAST THE "LIMITS OF THE INTERSECTION" UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- WHEN THE WORK ZONE PROCEEDS THROUGH A "STOP SIGN CONTROLLED" "SIDE ROAD" INTERSECTION, CONTINUE THE WORK OPERATIONS THROUGH THE INTERSECTION TO A SPECIFIC LOCATION POINT WITHIN THE "DEPARTURE LANE" NO LESS THAN 300 FT TO 500 FT BEYOND THE LIMITS OF THE INTERSECTION TO ALLOW THE WORK TRAIN AND ALL PORTIONS OF THE LANE CLOSURE TO CLEAR THE INTERSECTION.
- MAINTAIN THE MAXIMUM TIME DURATION OF 5 TO 7½ MINUTES FOR STOPPED TRAFFIC ON THE ROADWAY WHERE THE WORK ACTIVITY IS LOCATED AND BEING CONDUCTED UNLESS OTHERWISE DIRECTED BY THE ENGINEER. WHEN ANY PORTION OF THE "WORK ACTIVITY AREA" ENCR OACHES UPON THE "LIMITS OF THE INTERSECTION", VARIOUS TYPES OF WORK MAY REQUIRE TRAFFIC TO AND FROM THE "SIDE ROADS" BE STOPPED FOR TIME DURATIONS GREATER THAN THE MAXIMUM TIME DURATION OF 5 TO 7½ MINUTES. ONLY WHEN APPROVED BY THE ENGINEER MAY THE MAXIMUM TIME DURATION OF 5 TO 7½ MINUTES FOR STOPPED TRAFFIC FOR THE SIDE ROAD TRAFFIC BE EXCEEDED. IN THE EVENT THE TYPE OF WORK REQUIRES THE SIDE ROAD TRAFFIC BE STOPPED FOR TIME DURATIONS GREATER THAN 5 TO 7½ MINUTES, THE SIDE ROAD TRAFFIC MAY BE STOPPED FOR TIME PERIODS UP TO 20 MINUTES IF APPROVED BY THE ENGINEER. IF THE SIDE ROAD TRAFFIC MUST BE STOPPED FOR TIME PERIODS GREATER THAN 20 MINUTES, CLOSURE OF THE "SIDE ROADS" MAY BE CONSIDERED IF APPROVED BY THE ENGINEER. IN THE EVENT CLOSURE OF THE "SIDE ROADS" IS APPROVED, CLOSE THE "SIDE ROADS" TO TRAFFIC IN ACCORDANCE WITH THE REQUIREMENTS OF STANDARD DRAWING NO. 610-510-00. INSTALL AND MAINTAIN APPROPRIATE DETOURS WHEN NECESSARY AND AS DIRECTED BY THE ENGINEER.

WORK ZONE TRAFFIC CONTROL ENGINEER



Willie E. McConnell, Jr.
SIGNATURE
6/11/2018
DATE

#	DATE	CHK	DESCRIPTION
5			
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1	4-27-18	WEM	REVISED WORK ACTIVITY DIMENSION AND NOTE 5
0	1-15-15	JCS	NEW DRAWING



STANDARD DRAWING
FLAGGING OPERATIONS WORK ZONES CONTINUING THROUGH STOP SIGN CONTROLLED SIDE ROADS

610-005-20

EFFECTIVE LETTING DATE JAN 2019

UTILIZE A CHANGEABLE MESSAGE SIGN AS ILLUSTRATED DURING NIGHTTIME FLAGGING OPERATIONS
(SEE STANDARD DRAWING NO. 610-005-00)

THIS DRAWING IS NOT TO SCALE

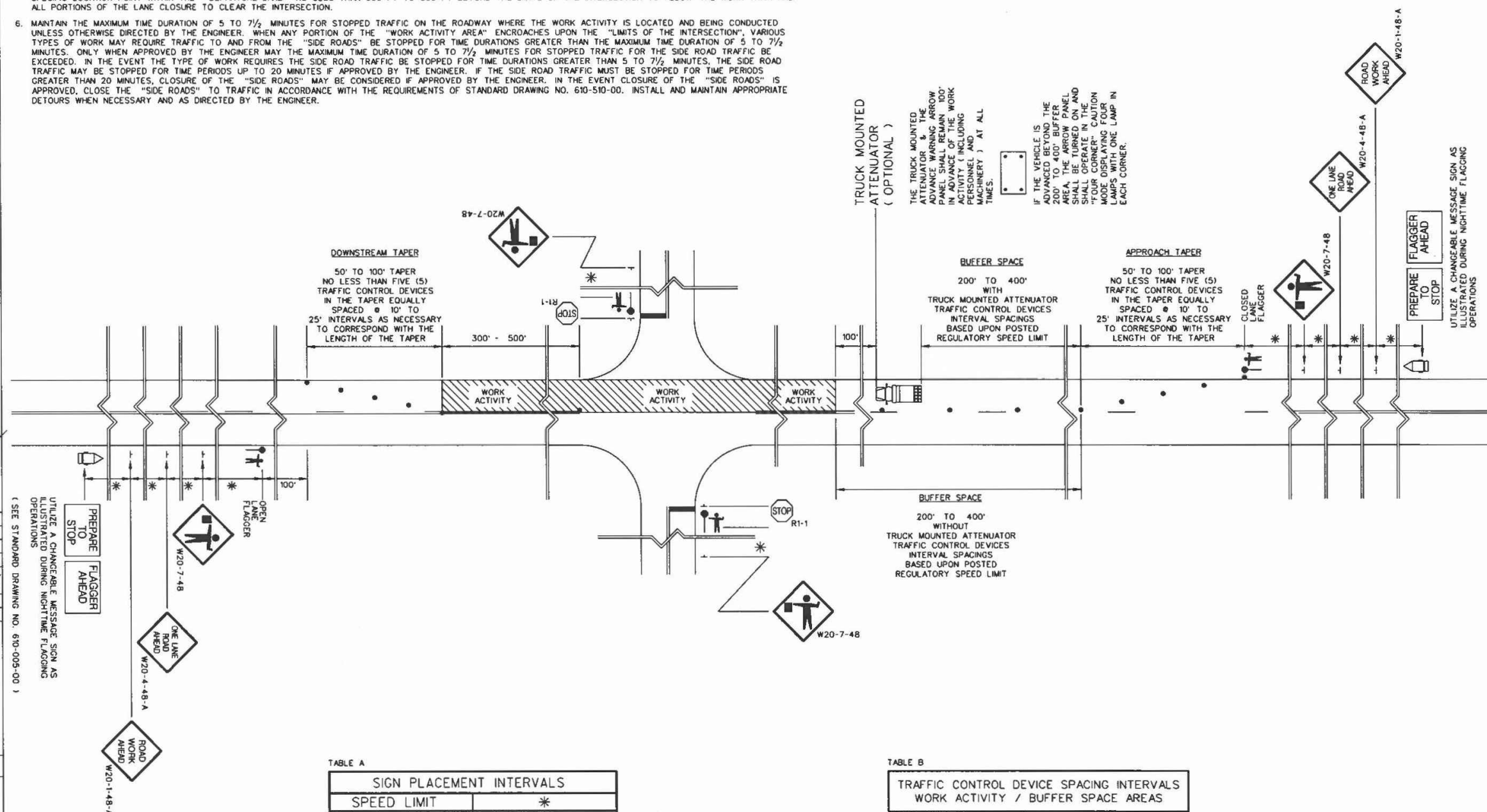


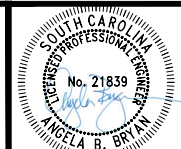
TABLE A

SIGN PLACEMENT INTERVALS	
SPEED LIMIT	*
< 35 MPH LOW SPEED	200
* 40 - 50 MPH INTERMEDIATE SPEED	350
* 55 MPH HIGH SPEED	500

* REGULATORY POSTED SPEED LIMIT PRIOR TO BEGINNING WORK

TABLE B

TRAFFIC CONTROL DEVICE SPACING INTERVALS WORK ACTIVITY / BUFFER SPACE AREAS	
SPEED LIMIT	SPACING INTERVALS
< 35 MPH	25 FEET
40 - 55 MPH	50 FEET



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TOWN OF RIDGELAND
CDBG WATER AND SEWER IMPROVEMENTS
MAINTENANCE OF TRAFFIC PLAN
TOWN OF RIDGELAND SOUTH CAROLINA

DESIGN ABB	DRAWN BRH	DATE	ISSUE
ABB	BRH	17-1007-44	100%
JOB #	ISSUE DATE	APRIL 2026	

FOUR WATERS ENGINEERING
324 6th AVE. N. JACKSONVILLE BEACH, FLORIDA 32250
844-414-2400 S.C. COA # 5166 WWW.4WENG.COM

DRAWING NUMBER
T-5

DRAWING 610-005-30 NOTES

- SEE STANDARD DRAWING NO. 610-005-00 FOR ALL GENERAL NOTES AND REQUIREMENTS. THE FOLLOWING NOTES ARE SPECIFIC REQUIREMENTS FOR THIS STANDARD DRAWING.
- WHEN THE WORK ZONE PROCEEDS THROUGH OR MUST ENCR OACH UPON THE "LIMITS OF THE INTERSECTION", DO NOT ALLOW THE "APPROACH TAPER" OR THE "DOWNSTREAM TAPER" OF THE LANE CLOSURE TO ENCR OACH UPON THE "LIMITS OF THE INTERSECTION". ONLY THE "BUFFER SPACE" OR THE "WORK ACTIVITY AREA" OF THE LANE CLOSURE MAY ENCR OACH UPON THE "LIMITS OF THE INTERSECTION".
- WHEN THE WORK ZONE PROCEEDS THROUGH OR MUST ENCR OACH UPON THE "LIMITS OF THE INTERSECTION" WITH "STOP SIGN CONTROLLED" "SIDE ROADS", UTILIZE FLAGGERS TO CONTROL THE TRAFFIC FROM THE INTERSECTING "SIDE ROADS" UNLESS OTHERWISE DIRECTED BY THE ENGINEER. MAINTAIN THESE FLAGGERS IN PLACE FOR THE DURATION THAT ANY PORTION OF THE "BUFFER SPACE" OR THE "WORK ACTIVITY AREA" MAY ENCR OACH UPON THE "LIMITS OF THE INTERSECTION".
- WHEN THE WORK ZONE PROCEEDS THROUGH AN INTERSECTION VIA A "STOP SIGN CONTROLLED" "APPROACH LANE", THE CONTRACTOR SHOULD CONTINUE THE WORK OPERATIONS THROUGH THE INTERSECTION TO A LOCATION POINT WITHIN THE "DEPARTURE LANE" BEYOND THE "LIMITS OF THE INTERSECTION" THAT WILL PERMIT THE WORK TRAIN TO CLEAR THE INTERSECTION AND THE LOCATION OF THE SUBSEQUENT "FLAGGER STATION" BE NO LESS THAN 200' PAST THE "LIMITS OF THE INTERSECTION" UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- WHEN THE WORK ZONE PROCEEDS THROUGH A "STOP SIGN CONTROLLED" INTERSECTION, CONTINUE THE WORK OPERATIONS THROUGH THE INTERSECTION TO A SPECIFIC LOCATION POINT WITHIN THE "DEPARTURE LANE" NO LESS THAN 300 FT TO 500 FT BEYOND THE LIMITS OF THE INTERSECTION TO ALLOW THE WORK TRAIN AND ALL PORTIONS OF THE LANE CLOSURE TO CLEAR THE INTERSECTION.
- MAINTAIN THE MAXIMUM TIME DURATION OF 5 TO 7½ MINUTES FOR STOPPED TRAFFIC ON THE ROADWAY WHERE THE WORK ACTIVITY IS LOCATED AND BEING CONDUCTED UNLESS OTHERWISE DIRECTED BY THE ENGINEER. WHEN ANY PORTION OF THE "WORK ACTIVITY AREA" ENCR OACHES UPON THE "LIMITS OF THE INTERSECTION", VARIOUS TYPES OF WORK MAY REQUIRE TRAFFIC TO AND FROM THE "SIDE ROADS" BE STOPPED FOR TIME DURATIONS GREATER THAN THE MAXIMUM TIME DURATION OF 5 TO 7½ MINUTES. ONLY WHEN APPROVED BY THE ENGINEER MAY THE MAXIMUM TIME DURATION OF 5 TO 7½ MINUTES FOR STOPPED TRAFFIC FOR THE SIDE ROAD TRAFFIC BE EXCEEDED. THE PRESENCE OF "STOP SIGN CONTROLLED" "SIDE ROADS" ON ALL APPROACHES TO THE INTERSECTION INDICATES HIGH TRAFFIC VOLUMES ON THE "SIDE ROADS". THEREFORE, MINIMIZE EXCEEDING THE MAXIMUM TIME DURATION OF 5 TO 7½ MINUTES FOR STOPPED TRAFFIC ON THE "SIDE ROADS". THE CONTRACTOR AND THE ENGINEER SHALL DISCUSS THE TIME REQUIREMENTS FOR CONDUCTING THE WORK AND SHALL DETERMINE A MAXIMUM TIME DURATION FOR STOPPING THE SIDE ROAD TRAFFIC PRIOR TO ANY PORTION OF THE LANE CLOSURE OR THE "WORK ACTIVITY AREA" ENCR OACHING UPON THE "LIMITS OF THE INTERSECTION".

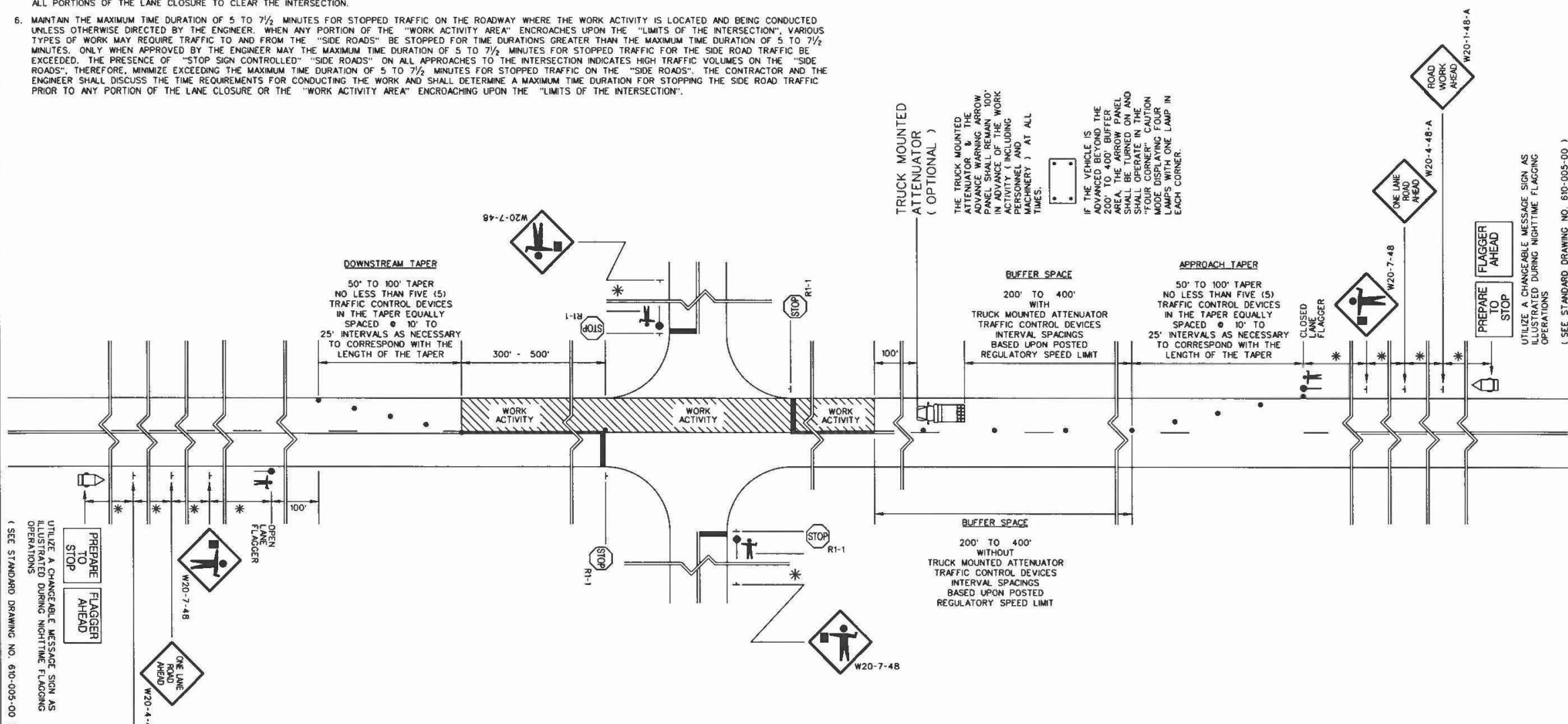


TABLE A

SIGN PLACEMENT INTERVALS	
SPEED LIMIT	*
< 35 MPH LOW SPEED	200
40 - 50 MPH INTERMEDIATE SPEED	350
55 MPH HIGH SPEED	500

* REGULATORY POSTED SPEED LIMIT PRIOR TO BEGINNING WORK

TABLE B

TRAFFIC CONTROL DEVICE SPACING INTERVALS WORK ACTIVITY / BUFFER SPACE AREAS	
SPEED LIMIT	SPACING INTERVALS
< 35 MPH	25 FEET
40 - 55 MPH	50 FEET

REFERENCES

WORK ZONE TRAFFIC CONTROL ENGINEER



Signature: *Willie E. McConnell*
DATE: 6/1/2018

#	DATE	CHK	DESCRIPTION
1	4-27-18	WEM	NOTE 5 ADDED
0	8-12-14	JCS	NEW DRAWING

SCDOT
SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION
DESIGN STANDARDS OFFICE
955 PARK STREET
ROOM 405
COLUMBIA, SC 29201

STANDARD DRAWING
FLAGGING OPERATIONS
WORK ZONES
CONTINUING THROUGH
STOP SIGN
CONTROLLED
INTERSECTIONS
ALL APPROACHES
610-005-30
EFFECTIVE LETTING DATE: JAN 2019

SOUTH CAROLINA
REGISTERED PROFESSIONAL ENGINEER
No. 21839
ANGELA B. BRYAN

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SOUTH CAROLINA
REGISTERED PROFESSIONAL ENGINEER
No. 5166
FOUR WATERS ENGINEERING, INC.

REV. NO.	DATE	DRWN/CHKD BY	DESCRIPTION
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TOWN OF RIDGELAND
CDBG WATER AND SEWER IMPROVEMENTS

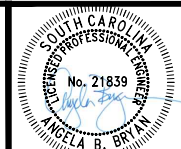
MAINTENANCE OF TRAFFIC PLAN

TOWN OF RIDGELAND
SOUTH CAROLINA

FOUR WATERS ENGINEERING
324 6th AVE. N. JACKSONVILLE BEACH, FLORIDA 32250
844-414-2400 WWW.4WENG.COM

DRAWN: BRH
JOB #: 17-1007-44
ISSUE DATE: APRIL 2018
ISSUE: 100%

DRAWING NUMBER
T-6



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REV. NO.	DATE	BY	DESCRIPTION
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TOWN OF RIDGELAND
CDBG WATER AND SEWER IMPROVEMENTS

MAINTENANCE OF TRAFFIC PLAN

TOWN OF RIDGELAND
SOUTH CAROLINA

DESIGN ABB	BRH	JOB #	ISSUE DATE	ISSUE
		17-1007-44	APRIL 2006	100%

FOUR WATERS ENGINEERING
324 6th AVE. N. JACKSONVILLE BEACH, FLORIDA 32250
844-414-2400 S.C. COA # 5166 WWW.4WENG.COM

DRAWING NUMBER
T-7

REFERENCES

WORK ZONE TRAFFIC CONTROL ENGINEER



Willie E. McConnell, Jr.
SIGNATURE
1-30-2008
DATE

#	DATE	CHK	DESCRIPTION
0	8-30-07	JCS	DRAWING NO. UPDATE

SCDOT
SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION
DESIGN STANDARDS OFFICE
955 PARK STREET
ROOM 405
COLUMBIA, SC 29201

STANDARD DRAWING

DETOUR SIGNING FOR SECONDARY ROUTES

610-610-00
EFFECTIVE LETTING DATE MAY 2008

GENERAL NOTES

- ALL SIGN LOCATIONS ARE TO BE MEASURED FROM THE WORK AREA. WORK LIMITS FOR THE PROJECT WILL BE DETERMINED BY THE ENGINEER AND AS INDICATED IN THE CONTRACT.
- IN AREAS WITH PAVED SHOULDERS OR CURB & GUTTER, GROUND MOUNT ALL DETOUR SIGN ASSEMBLIES 2 FEET FROM EITHER THE PAVEMENT EDGE OF A PAVED SHOULDER OR THE FACE OF A CURB. IN AREAS WITH NO PAVED SHOULDERS OR CURB & GUTTER, GROUND MOUNT ALL DETOUR SIGN ASSEMBLIES 6-12 FEET FROM THE NEAR EDGE OF AN ADJACENT TRAVEL LANE TO THE NEAREST EDGE OF THE SIGN ASSEMBLY. MOUNT EACH DETOUR SIGN ASSEMBLY SO THE BOTTOM EDGE OF THE BOTTOM SIGN HAS A MINIMUM MOUNTING HEIGHT OF NO LESS THAN 5 FEET ABOVE THE NEAR EDGE OF THE ADJACENT TRAVEL LANE.
- SPACINGS INDICATED ARE FOR NORMAL CONDITIONS; ADJUSTMENTS MAY BE REQUIRED DUE TO HORIZONTAL AND/OR VERTICAL ALIGNMENTS OR OTHER SIGHT DISTANCE RESTRICTIONS.
- MOUNT ALL SIGNS SUCH THAT THEY ARE STRAIGHT AND LEVEL AND THE FACE OF THE SIGNS ARE PERPENDICULAR TO THE SURFACE OF THE ROADWAY.
- REFLECTORIZE ALL DETOUR MARKERS, DETOUR SIGNS, AND DETOUR ARROW SIGNS WITH A FLUORESCENT ORANGE COLORED PRISMATIC REFLECTIVE SHEETING.
- ALL TRAFFIC CONTROL DEVICES, INCLUDING TYPE III BARRICADES, PORTABLE SIGN SUPPORTS, SIGN SUBSTRATUMS, BREAKAWAY SYSTEMS FOR GROUND MOUNTED SIGN SUPPORTS, WARNING LIGHTS, ETC., SHALL COMPLY WITH ALL NCHRP REPORT 350 REQUIREMENTS AND SHALL BE APPROVED BY THE DEPARTMENT. ALL APPROVED TRAFFIC CONTROL DEVICES ARE INCLUDED ON THE "APPROVED PRODUCTS LIST FOR TRAFFIC CONTROL DEVICES IN WORK ZONES". THIS LIST MAY BE ACCESSED ON THE DEPARTMENT'S WEB SITE AT: www.scdot.org.
- SPECIAL SIGN MOUNTING ASSEMBLIES MAY BE NECESSARY IN AREAS OF CONCRETE MEDIAN BARRIER, BRIDGE PARAPET WALLS, OR DOUBLEFACED GUARDRAIL AND SHALL BE PROVIDED BY THE CONTRACTOR.
- REFLECTORIZE ALL BARRICADES WITH A TYPE III HIGH INTENSITY REFLECTIVE SHEETING UNLESS OTHERWISE DIRECTED BY THE DEPARTMENT.
- ALL SUPPLEMENTAL SIGNS ATTACHED TO TYPE III BARRICADES SHALL BE CONSTRUCTED OF AN APPROVED REFLECTIVE ROLL-UP MATERIAL OR AN APPROVED ALUMINUM COMPOSITE MATERIAL. ONLY THOSE ALUMINUM COMPOSITE MATERIALS INCLUDED ON THE "APPROVED PRODUCTS LIST FOR TRAFFIC CONTROL DEVICES IN WORK ZONES" SUCH AS "ALPOLIC", "DIBOND", OR "REYNOLITE" ARE APPROVED. ALL OTHER RIGID SIGN SUBSTRATUMS, INCLUDING .08 AND .10 ALUMINUM SIGN BLANKS, ARE PROHIBITED FOR ATTACHMENT TO A TYPE III BARRICADE.
- THE TRAFFIC CONTROL SETUP SHOWN IS A TYPICAL INSTALLATION FOR A SECONDARY ROADWAY. SPECIFIC SIGNING WILL BE BASED ON SITE CONDITIONS AND SHALL REQUIRE THE ENGINEER'S APPROVAL PRIOR TO INSTALLATION. ROAD AND STREET NAMES MAY ALSO BE USED.
- THE DEPARTMENT RESERVES THE RIGHT TO RESTRICT CONSTRUCTION OPERATIONS AND/OR WITHHOLD THE MONTHLY ESTIMATE IF THE TRAFFIC CONTROL IS NOT PROPERLY INSTALLED AND MAINTAINED AS DIRECTED BY THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, THE STANDARD DRAWINGS, THE PLANS, AND/OR THE ENGINEER.
- THE TRAFFIC CONTROL SETUP ILLUSTRATED ON THIS STANDARD DRAWING, INCLUDING INSTALLATION AND MAINTENANCE OF THE DETOUR SIGNING AND ALL TRAFFIC CONTROL DEVICES PERTINENT TO THE DETOUR, SHALL BE INCLUDED IN THE CONTRACT LUMP SUM PRICE BID ITEM FOR TRAFFIC CONTROL.
- COORDINATE THE SIGNS IN EACH SIGN ASSEMBLY ACCORDING TO LOCATION, ROUTE, DIRECTION, SIZE, AND COLOR.

TYPICAL SIGNS

M4-9-30	M4-9-30
M4-9L-30	M4-9R-30
M4-9-1R-30	M4-10R-4B
R11-4-60	R11-3b-60-XX

LEGEND

- TYPE III BARRICADE (6 FEET)
- SINGLE POST SIGN ASSEMBLY
- DUAL POSTS SIGN ASSEMBLY

SIGN PLACEMENT AND SPACING INTERVALS

SPEED LIMIT	a	b	c	d
35 mph OR LESS	50'	100'	200'	200'
40 mph TO 50 mph	75'	150'	350'	350'
55 mph OR GREATER	100'	200'	500'	500'

THIS DRAWING IS NOT TO SCALE