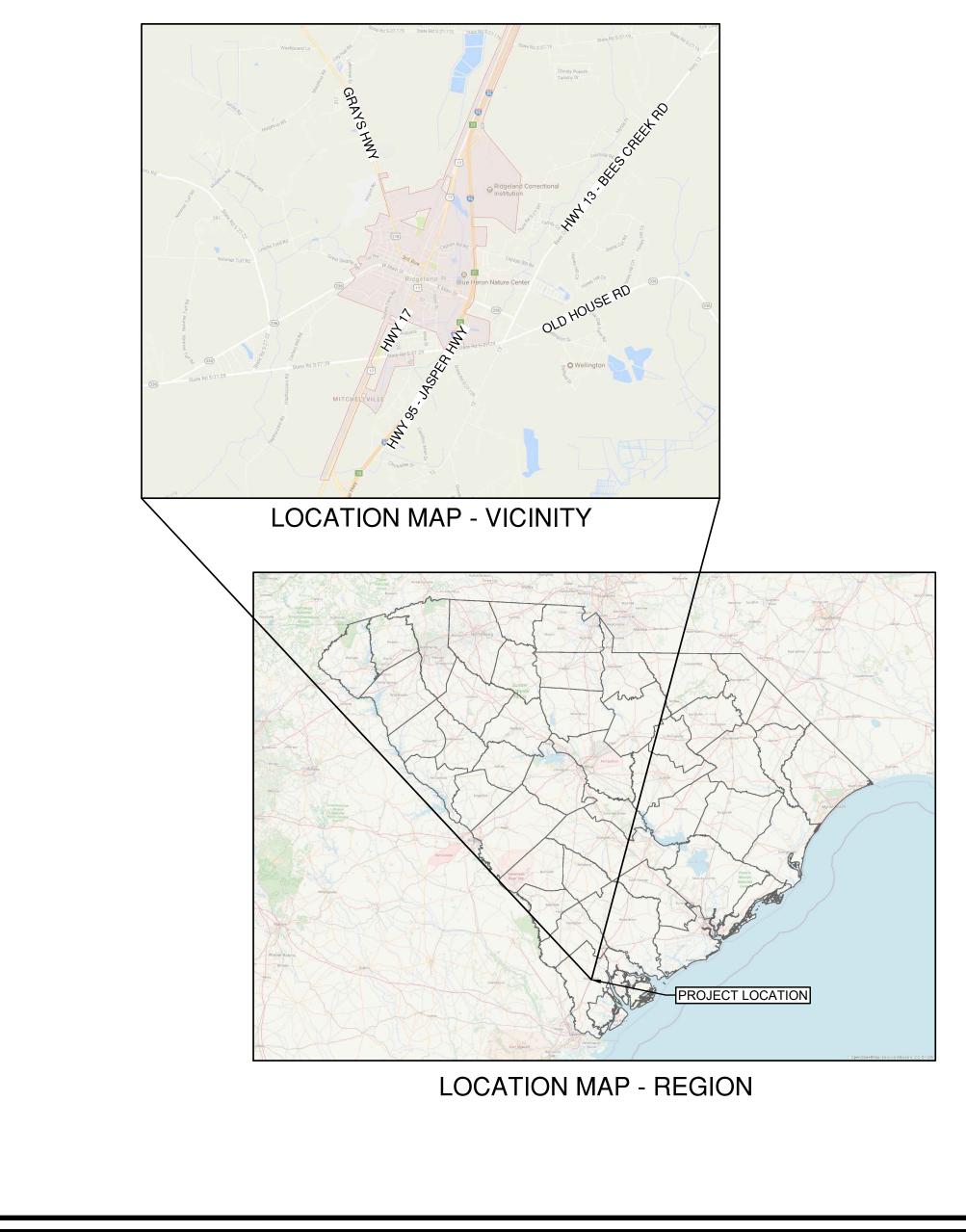
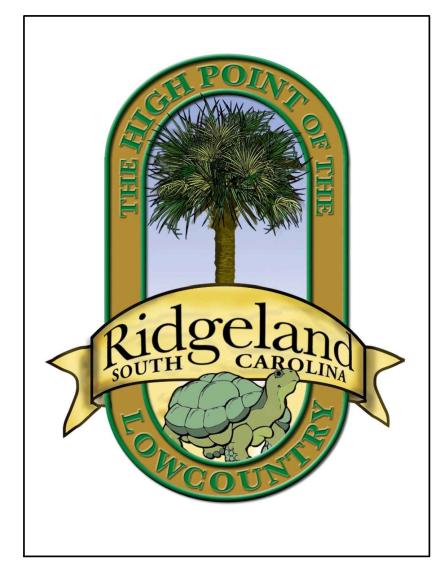
CONSTRUCTION DRAWINGS FOR: TOWN OF RIDGELAND SEWER RESILIENCY IMPROVEMENTS - GRAVITY SEWER REHABILITATION



REQUEST FOR BIDS NO: TOR-2024-08



MAYOR JOSEPH N. MALPHRUS, JR

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PROJECT #: 17-007:043



PREPARED BY

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BID ISSUE:

DATE: NOVEMBER 2024

PLOT DATE AND TIME: 11/25/2024 4:15:47 PM

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NOTE:

IF ARCHEOLOGICAL MATERIALS ARE ENCOUNTERED DURING CONSTRUCTION, THE PROCEDURES CODIFIED AT 33 CFR 800.13(B) WILL APPLY AND EDA, THE SOUTH CAROLINA STATE HISTORIC PRESERVATION OFFICE, THE MUSCOGEE (CREEK) NATION AND THE CATAWBA INDIAN NATION SHALL BE CONTACTED IMMEDIATELY. ARCHEOLOGICAL MATERIALS CONSIST OF ANY ITEMS, FIFTY YEARS OR OLDER WHICH WERE MADE OR USED BY MAN. THESE ITEMS INCLUDE, BUT ARE NOT LIMITED TO, STONE PROJECTILE POINTS (ARROWHEADS), CERAMIC SHERDS, BRICKS, WORKED WOOD, BONE AND STONE, METAL AND GLASS OBJECTS, AND HUMAN SKELETAL REMAINS.



UTILITY SEPARATION NOTES

- 1. UTILITY SEPARATION FROM WATER MAINS SHALL BE IN ACCORDANCE WITH THE TOWN OF RIDGELAND STANDARD SPECIFICATIONS FOR WATER AND SEWER SYSTEMS. ALL DISTANCES NOTED ARE FROM OUTSIDE OF PIPE TO OUTSIDE OF PIPE.
- 2. HORIZONTAL SEPARATION BETWEEN WATER MAIN AND SEWER PIPE UNDER THE TOWN OF RIDGELAND STANDARD SPECIFICATIONS FOR WATER AND SEWER SYSTEMS SHALL BE A MINIMUM OF TEN FEET WHERE POSSIBLE. THE MINIMUM OF THE HORIZONTAL SEPARATION DISTANCE BETWEEN WATER MAINS AND SEWER PIPE SHALL BE REDUCED WHERE THE BOTTOM OF THE WATER MAIN IS AT LEAST 18" INCHES ABOVE THE TOP OF THE SEWER AS APPROVED BY THE ENGINEER.
- 3. VERTICAL SEPARATION BETWEEN WATER MAIN AND SEWER PIPE SHALL BE 18 INCHES. PREFERENCE IS FOR THE WATER MAIN TO BE ABOVE THE OTHER PIPELINE.
- 4. FOR UTILITY CROSSINGS WITH WATER MAINS, ONE FULL LENGTH (20 FEET) OF WATER MAIN QUALITY PIPE SHALL BE CENTERED ABOVE OR BELOW THE OTHER PIPELINE SO THAT THE WATER MAIN JOINTS WILL BE AS FAR AS POSSIBLE FROM THE OTHER PIPELINE. WATER PIPE SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE FOR ALL CROSSINGS OF SEWER LINES AND DRAINAGE LINES, REGARDLESS OF CLEARANCE; FOR ALL CROSSINGS OF CREEKS, RIVERS, OR OTHER WATER BODIES; AND FOR WATER MAINS INSTALLED IN CASING. THE CONTRACTOR SHALL VERIFY, RECORD, AND REPORT THE VERTICAL SEPARATION FROM OUTSIDE OF PIPE TO OUTSIDE OF PIPE AT THE CROSSING.
- 5. NO WATER MAIN SHALL PASS THROUGH OR COME IN CONTACT WITH ANY PART OF A SANITARY SEWER MANHOLE, A STORM SEWER MANHOLE, OR A STORM SEWER INLET STRUCTURE.

GENERAL NOTES

1.	REFERENCE INDIVIDUAL EXISTING CONDITIONS DRAWINGS FOR ELEVATION AND COORDINATE SYSTEM INFORMATION FOR EACH SITE	16.	THE CONTRACTOR PLANS DO NOT STA SPECIFICATIONS AI
2.	IN ACCORDANCE WITH GENERAL CONDITIONS, IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE AND AVOID ALL UTILITIES, OTHER STRUCTURES AND OBSTRUCTIONS BOTH ABOVE AND BELOW THE GROUND SURFACE. ALL DAMAGE RESULTING FROM THE CONTRACTOR'S FAILURE TO COMPLY WITH THIS REQUIREMENT SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE.	17.	CONTRACTOR TO F LIGHTING AS REQU TRANSPORTATION DEVICES FOR STRE DETOUR SIGNS AS
3.	THE CONTRACTOR SHALL MAINTAIN UNINTERRUPTED SERVICE AT ALL SERVICE CONNECTIONS. THE MANNER IN WHICH THIS IS ACCOMPLISHED	18.	ALL POTABLE WATE
	SHALL BE LEFT TO THE DISCRETION OF THE CONTRACTOR, SUBJECT TO THE REQUIREMENTS OF THE CONTRACT SPECIFICATIONS.	19.	IF SOLVENT CONTA BE STOPPED AND T THE PERMITTING A
4.	STATIONING SHOWN ON DRAWINGS REFERS TO CENTERLINE OF ROAD OR RIGHT-OF-WAY LINE.		RESISTANT GASKE AREA. THE DUCTIL ANY SOLVENT NOT
5.	ALL PIPE LENGTHS SHOWN ON PLAN AND PROFILES ARE FROM CENTER TO CENTER OF INLETS OR MANHOLES OR ALONG FORCEMAIN OR WATER MAINS.	20.	PIPE JOINT DEFLEC THE MANUFACTURI JOINT.
6.	THE CONTRACTOR SHALL PROVIDE NO LESS THAN A 6 INCH CLEARANCE BETWEEN ALL UTILITIES, OTHER THAN WATER MAINS UNLESS OTHERWISE	21.	ALL PIPELINES, WA
	DIRECTED. NO SPECIAL PAYMENT ALLOWED.	۷۱.	HAVE A 12 GAUGE S
7.	MINIMUM PIPE COVER SHALL BE 36 INCHES FOR PIPES LESS THAN 12" IN DIAMETER; 48 INCHES FOR PIPES 14" OR LARGER IN DIAMETER; AND 36 INCHES BELOW ANY SCDOT ROAD ELEVATION.		SURFACE AT EACH FROM THE SURFAC LOCATIONS TRACE BOX WITH PLAIN LI
8.	CONTRACTOR SHALL EMPLOY A LAND SURVEYOR, REGISTERED IN THE STATE OF SOUTH CAROLINA, TO REFERENCE AND RESTORE PROPERTY CORNERS AND LANDMARKS WHICH MAY BE DISTURBED BY CONSTRUCTION.	22.	MARKER PAIR.
9.	EXISTING UTILITIES HAVE BEEN SHOWN FROM THE BEST AVAILABLE INFORMATION. CONTRACTOR SHALL NOTIFY THE PROPER UTILITY REPRESENTATIVE AT LEAST 48 HOURS PRIOR TO COMMENCING EXCAVATION NEAR UTILITY. CONTRACTOR IS RESPONSIBLE FOR LOCATION OF ALL SUCH UTILITIES IN THE PATH OF CONSTRUCTION. THE LOCATION		ROUTE OF NEW PIP IRRIGATION/SPRINK FOR THE REPAIR/RI SYSTEMS ON PRIVA PERFORMED BY CO
	SHALL BE MADE WELL IN ADVANCE OF CONSTRUCTION SO THAT CONFLICTS IN CONSTRUCTION MAY BE RESOLVED.	23.	THE CONTRACTOR ADJACENT TO BUIL EXCAVATIONS DEE
10.	THE DEPARTMENT OF TRANSPORTATION IS TO BE NOTIFIED 48 HOURS IN ADVANCE AND RAILROAD COMPANY 7 DAYS IN ADVANCE OF CONSTRUCTION WITHIN THEIR RESPECTIVE RIGHT OF WAY.		SHORING SYSTEM SEALED BY A SOUT
11.	UTILITY CONTACTS	24.	ALL PROTECTED TE LAND CLEARING OF
	SPECTRUM – (833-267-6094) CENTURYLINK – (866-642-0444) DOMINION ENERGY SOUTH CAROLINA – CUSTOMER SERVICE MAIN LINE (1-800-251-7234)		CONSTRUCTION OF AT THE DRIP LINE C COUNTY ZONING O
	PALMETTO ELECTRIC COOPERATIVE – RIDGELAND OFFICE (843-726-5551) TOWN OF RIDGELAND WATER & SEWER DEPARTMENT – TY SHAFFER (843-226-0312)	25.	TREE BARRICADE A BARRICADES BEFO CONSTRUCTION.
12.	THE LOCATION(S) OF THE UTILITIES SHOWN IN THE PLANS ARE BASED ON LIMITED INVESTIGATION TECHNOLOGIES AND SHOULD BE CONSIDERED	26.	SCDOT RIGHTS-OF-
	APPROXIMATE ONLY.	27.	CONSTRUCTION AC
13.	CONTACT SOUTH CAROLINA 811 AS REQUIRED BY SC CODE § 58-36-120 (2018).		CONSTRUCTION. NO REQUIREMENTS VA PROXIMITY TO A CO
14.	CONTRACTOR TO LOCATE, PROTECT AND SUPPORT ALL WATER, SEWER, GAS TELECOMMUNICATIONS AND ELECTRIC UTILITIES ENCOUNTERED DURING CONSTRUCTION.		SUBMIT AN NOI TO
15.	IF THE CONTRACTOR ENCOUNTERS GROUNDWATER, THE CONTRACTOR SHALL BE RESPONSIBLE FOR UTILIZING DEWATERING SYSTEM(S) TO REMOVE WATER FROM THE EXCAVATIONS. PRIOR TO BEGINNING ANY		

REMOVE WATER FROM THE EXCAVATIONS. PRIOR TO BEGINNING ANY DEWATERING, THE CONTRACTOR SHALL SUBMIT A DEWATERING PLAN TO THE ENGINEER FOR REVIEW AND APPROVAL. THE CONTRACTOR SHALL COMPLY WITH REQUIREMENTS LISTED IN THE SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL REGULATION 61-113, GROUNDWATER USE AND REPORTING; AND REGULATION 61-9, WATER POLLUTION CONTROL PERMITS, BEFORE ANY DEWATERING CAN BEGIN. CONTRACTOR SHALL SECURE THE SCDHEC GENERAL PERMIT FOR THE DISCHARGE OF GROUND WATER. R'S ATTENTION IS DIRECTED TO THE FACT THAT THESE AND BY THEMSELVES. ALSO TO BE INCLUDED ARE THE IND DETAILS.

FURNISH DETOUR AND CONSTRUCTION SIGNING AND JIRED IN SOUTH CAROLINA DEPARTMENT OF I SUPPLEMENT TO THE MANUAL ON TRAFFIC CONTROL EETS AND HIGHWAYS, AND OTHER SPECIAL ADVANCED NECESSARY.

ER PIPE SHALL BE NSFPW RATED.

AMINATION IS FOUND IN THE PIPE TRENCH, WORK SHALL THE PROPER AUTHORITIES NOTIFIED. WITH APPROVAL OF AGENCY, DUCTILE IRON PIPE, FITTINGS AND SOLVENT ET MATERIAL SHALL BE USED IN THE CONTAMINATED LE IRON PIPE SHALL EXTEND AT LEAST 100 FEET BEYOND TED.

CTION, WHERE ALLOWED BY EXCEPTION, SHALL MATCH ER'S RECOMMENDATION FOR THE SIZE AND TYPE OF

ATERMAINS, FORMAIN, AND SERVICE LATERALS SHALL SOLID COPPER SINGLE STRAND TRACER WIRE TAPED OF THE PIPE. THE TRACER WIRE SHALL BE BROUGHT TO H LOCATOR POST ON FORCE MAINS AND ACCESSIBLE CE AT ALL VALVE BOXED AND LOCATOR POSTS. AT ER WIRE SURFACES BETWEEN VALVES, REGULAR VALVE ID AND COLLAR SHALL BE INSTALLED BETWEEN A PIPELINE

ALL CONTACT EACH PROPERTY OWNER ALONG THE PING AND CONSTRUCTION AND LOCATE ANY EXISTING IKLER SYSTEMS. CONTRACTOR SHALL BE RESPONSIBLE REPLACEMENT OF ANY DAMAGED IRRIGATION/SPRINKLER /ATE PROPERTY OR CITY R.O.W'S DUE TO WORK BEING ONTRACTOR AND/OR SUB-CONTRACTORS.

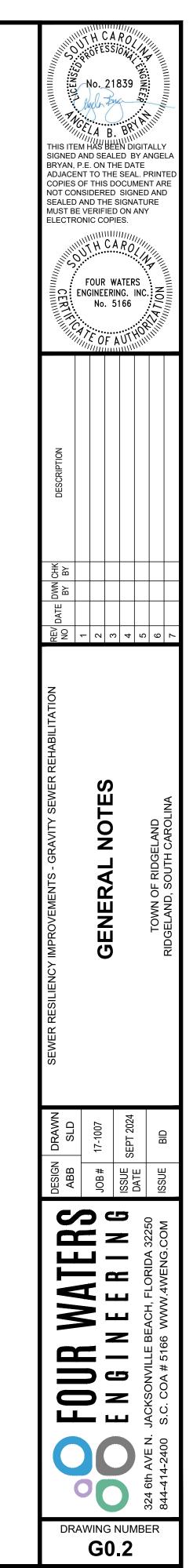
R SHALL SUBMIT A SHORING PLAN FOR EXCAVATIONS LDINGS, ADJACENT TO RIGHT-OF-WAY, OR ANY OTHER EPER THAN 7 FEET. THE SHORING PLAN SHALL INCLUDE DESIGN CALCULATIONS AND DETAILS SIGNED AND TH CAROLINA REGISTERED PROFESSIONAL ENGINEER.

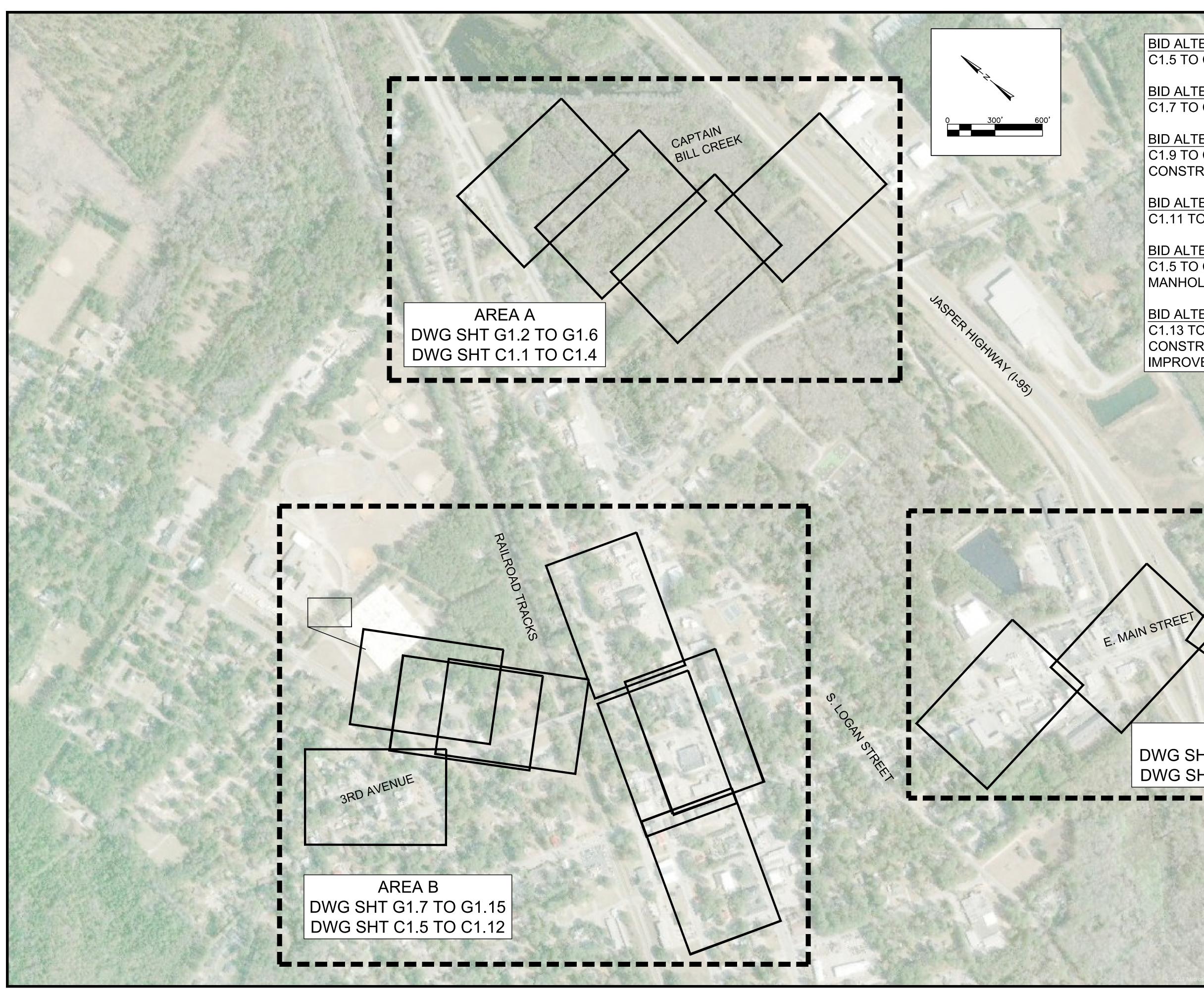
REES SHALL BE PROTECTED FROM INJURY DURING ANY OR CONSTRUCTION. PRIOR TO ANY LAND CLEARING OR OPERATIONS, TEMPORARY BARRIERS SHALL BE INSTALLED OF ALL PROTECTED TREES IN ACCORDANCE WITH JASPER ORDINANCE § 13:5 (2).

APPROVAL: OBTAIN TOWN APPROVAL OF TREE ORE BEGINNING CLEARING OPERATIONS OR ANY

-WAY PERMITS ARE REQUIRED FOR THIS PROJECT

CTIVITIES DISTURBING ANY LAND AREA WITHIN JASPER EQUIRE NOTIFICATION TO SCDHEC PRIOR TO IOTIFICATION REQUIREMENTS AND/OR NPDES PERMIT ARY BASED UPON LAND DISTURBANCE AREA AND OASTAL RECEIVING WATER BODY. CONTRACTOR SHALL SCDHEC PRIOR TO CONSTRUCTION.





LAST EDITED BY: STEVE DUCHARME

BID ALTERNATE 1: C1.5 TO C1.6 PIPE WORK

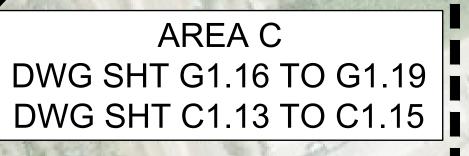
BID ALTERNATE 2: C1.7 TO C1.8 PIPE WORK

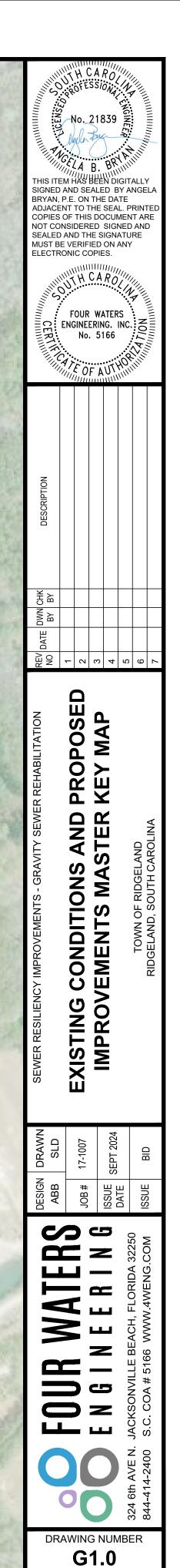
BID ALTERNATE 3: C1.9 TO C1.10 - PIPE WORK AND CONSTRUCTION OF NEW MANHOLES

BID ALTERNATE 4: C1.11 TO C1.12 - PIPE WORK

BID ALTERNATE 5: C1.5 TO C1.12 - CONSTRUCTION OF MANHOLE IMPROVEMENTS

BID ALTERNATE 6: C1.13 TO C1.15 - PIPE WORK AND CONSTRUCTION OF MANHOLE IMPROVEMENTS





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GENERAL NOTES

- ALL CONSTRUCTION SHALL CONFORM TO THE PROJECT SPECIFICATIONS AND CONTRACT DOCUMENTS.
- 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 PROVIDE 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.
- 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
- 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.
- ANY CONCRETE STRUCTURE, 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.
- THE CONTRACTOR SHALL ENSURE THAT POSITIVE DRAINAGE AWAY FROM RESIDENCES AND ALONG ROAD GUTTERS IS MAINTAINED AT ALL LOCATIONS 8. DISTURBED WITH IN THE PROJECT LIMITS.
- 9. IF IT SHALL BECOME ABSOLUTELY NECESSARY TO PERFORM WORK AT NIGHT, THE TOWN ENGINEER SHALL BE INFORMED IN ADVANCE AND APPROVAL PROVIDED. 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 DAYS WORK.
- 11. 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.
- 12. ALL STRUCTURES SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND DETAILS.
- 13. 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.
- 14. 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.
- 15. THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO MAINTAIN DUST CONTROL AS REQUIRED PER THE EROSION AND SEDIMENTATION DOCUMENTATION AND NPDES PERMIT FOR THE PROJECT. ALL VEHICLES SHALL BE CLEAN AND ALL ROADWAYS SHALL BE MAINTAINED AS DIRECTED BY THE TOWN ENGINEER AND SCDOT.
- 16. ALL PAVEMENT MARKINGS AND SIGNS SHALL CONFORM TO THE SCOOT 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.
- 17. 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.
- 18. 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.
- 19. ALL EXISTING STRUCTURES AND ALL UNDERGROUND STRUCTURES ARE TO BE REMOVED IN ACCORDANCE WITH STATE REGULATIONS.
- 20. THE CONTRACTOR SHALL NOTIFY THE TOWN ENGINEER IMMEDIATELY IF ANY FIELD CONDITIONS ENCOUNTERED DIFFER FROM THOSE SHOWN HEREIN.
- 21. 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 STORM WATER FROM ITS PROPERTIES AND PER THE NPDES PERMIT FOR THE PROJECT
- 22. THESE GENERAL NOTES SHALL APPLY FOR THE ENTIRE PROJECT.

SPECIAL NOTE:

*HORIZONTAL DATUM IS NAD 83 SOUTH CAROLINA STATE PLANE COORDINATES *VERTICAL DATUM IN NAVD 88 *SEE NOTE #7 BELOW

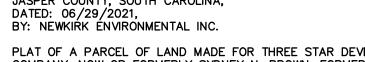
SURVEY NOTES:

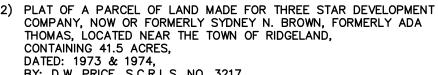
THE FOLLOWING INFORMATION APPLIES TO DRAWINGS G1.2-G1.6 AND C1.1-C1.4 HEREBY STATE THAT TO THE BEST OF MY KNOWLEDGE. INFORMATION, AND BELIEF, THE SURVEY SHOWN HEREIN WAS MADE IN ACCORDANCE WITH THE REQUIREMENTS OF THE MINIMUM STANDARDS MANUAL FOR THE PRACTICE OF LAND SURVEYING IN SOUTH CAROLINA, AND MEETS OR EXCEEDS THE REQUIREMENTS FOR A CLASS "A" SURVEY AS SPECIFIED THEREIN; ALSO THERE ARE NO OBVIOUS, APPARENT OR VISIBLE ENCROACHMENTS OR

- **PROJECTIONS OTHER THAN SHOWN**
- 2. UNDERGROUND UTILITIES NOT LOCATED EXCEPT AS SHOWN AND ARE APPROXIMATE. SURVEYING CONSULTANTS DOES NOT CERTIFY TO THE EXACT LOCATION OF ANY UNDERGROUND UTILITY.
- 3. THE WETLAND LINES SHOWN ARE FIELD LOCATIONS OF FLAGS RECENTLY SET BY NEWKIRK ENVIRONMENTAL (SEE REFERENCE PLAT #1) AND ARE SHOWN FOR INFORMATION PURPOSES ONLY. THIS SHOULD NOT BE CONSTRUED AS A CERTIFIED WETLAND SURVEY
- 4. SURVEYING CONSULTANTS CERTIFIES TO THE TOPOGRAPHIC AND ASBUILT INFORMATION PROVIDED HEREON AS OF THE DATE OF SURVEY. IF THIS SURVEYING CONSULTANTS
- 5. THIS SURVEY WAS CONDUCTED WITHOUT THE BENEFIT OF AN ABSTRACT OF TITLE, THEREFORE THERE MAY BE OTHER EASEMENTS, RIGHT-OF-WAY
- 6. NO BOUNDARY LINES AND/OR ROAD RIGHT-OF-WAY LINES WERE NOT ESTABLISHED AS A PART OF THIS SURVEY. THE APPROXIMATE BOUNDARY LINES CONSTRUED AS A BOUNDARY SURVEY.
- 7. THE HORIZONTAL DATUM SHOWN IS BASED ON NAD 83 SOUTH CAROLINA STATE PLANE COORDINATES. THE VERTICAL DATUM SHOWN IS BASED ON NAVD 88 DATUM. THE HORIZONTAL AND VERTICAL DATUM SHOWN WERE ESTABLISHED FROM THE SC-VRS SURVEY NETWORK.

REFERENCE PLAT:

1) WETLAND RESOURCE MAP, PS3 SEWER PROJECT, PROJECT #: 04-4584a, JASPER COUNTY, SOUTH CAROLINA, DATED: 06/29/2021,





BY: D.W. PRICE, S.C.R.L.S. NO. 3217 RECORDED: P.B. 13, PG. 111, 07/16/1974

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.

SCALE: 1'' = 30'

- RELOCATING THE DEVICES AS REQUIRED, OR AS DIRECTED BY THE TOWN ENGINEER, DURING THE COURSE OF CONSTRUCTION.
- DURING CONSTRUCTION, ALL ROADS SHALL BE PROPERLY MAINTAINED TO ACCOMMODATE 3. EMERGENCY VEHICLES AT ALL TIMES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH THE LOCAL AND STATE POLICE DEPARTMENTS FOR TRAFFIC OPERATIONS AND PARKING PROHIBITIONS DURING CONSTRUCTION.
- THE CONTRACTOR SHALL COORDINATE ANY TEMPORARY DETOURS NECESSARY WITH THE POLICE. TO A SAFE CONDITION AT THE END OF EACH DAY'S WORK PER SCDOT STANDARDS.
- 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.





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

2. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING MAINTENANCE AND PROTECTION OF TRAFFIC THROUGH THE DURATION OF CONSTRUCTION. NO SEPARATE PAYMENTS WILL BE MADE FOR

SURVEYING CONSULTANTS SØ 17 Sherington Drive, Suite C, Bluffton, SC 29910 SC Telephone: (843) 815-3304 FAX: (843) 815-3305 GA Telephone: (912) 826-2775 www.SurveyingConsultants.com WWW.SUFVeyingConsultants.com Email: SC@SurveyingConsultants.com CREW: JH/MW CAD: AJ

DATE: 09/08/2021 JOB NO: SC210030-PS3

SHOWN WERE SCALED FROM THE JASPER COUNTY ONLINE GIS MAPPING SERVICE AND WERE NOT FIELD VERIFIED. THIS PLAT SHOULD IN NO WAY BE

SETBACK LINES AGREEMENTS RESERVATIONS RESTRICTIONS OR OTHER SIMILAR MATTERS OF PUBLIC RECORD, NOT DEPICTED ON THIS SURVEY

DOCUMENT IS TO BE PROVIDED AS A BASE MAP FOR OTHERS. INFORMATION ADDED AFTER THE DATE OF THIS SURVEY IS NOT THE RESPONSIBILITY OF

LEGEND:

-2~

SSM

N.T.S.

N/F

R/W

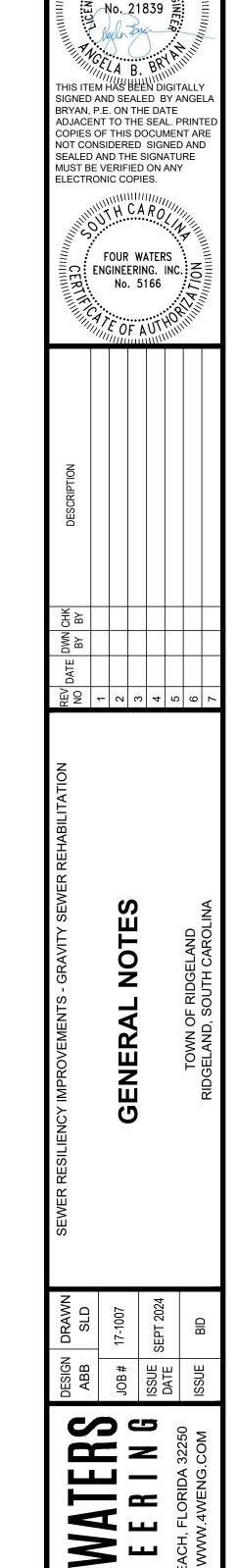
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EM

CONTOUR SPOT ELEVATION SANITARY SEWER MANHOLE INVERT ELEVATION POWER POLE NOT TO SCALE NOW OR FORMERLY RIGHT OF WAY TYPICAL WETLAND FLAG LABEL POLYVINYL CHLORIDE PIPE WATER VALVE ELECTRIC METER ANTENNA GUY WIRE ANCHOR CLEANOUT OVERHEAD POWERLINI SANITARY SEWER LINE WETLAND LINE



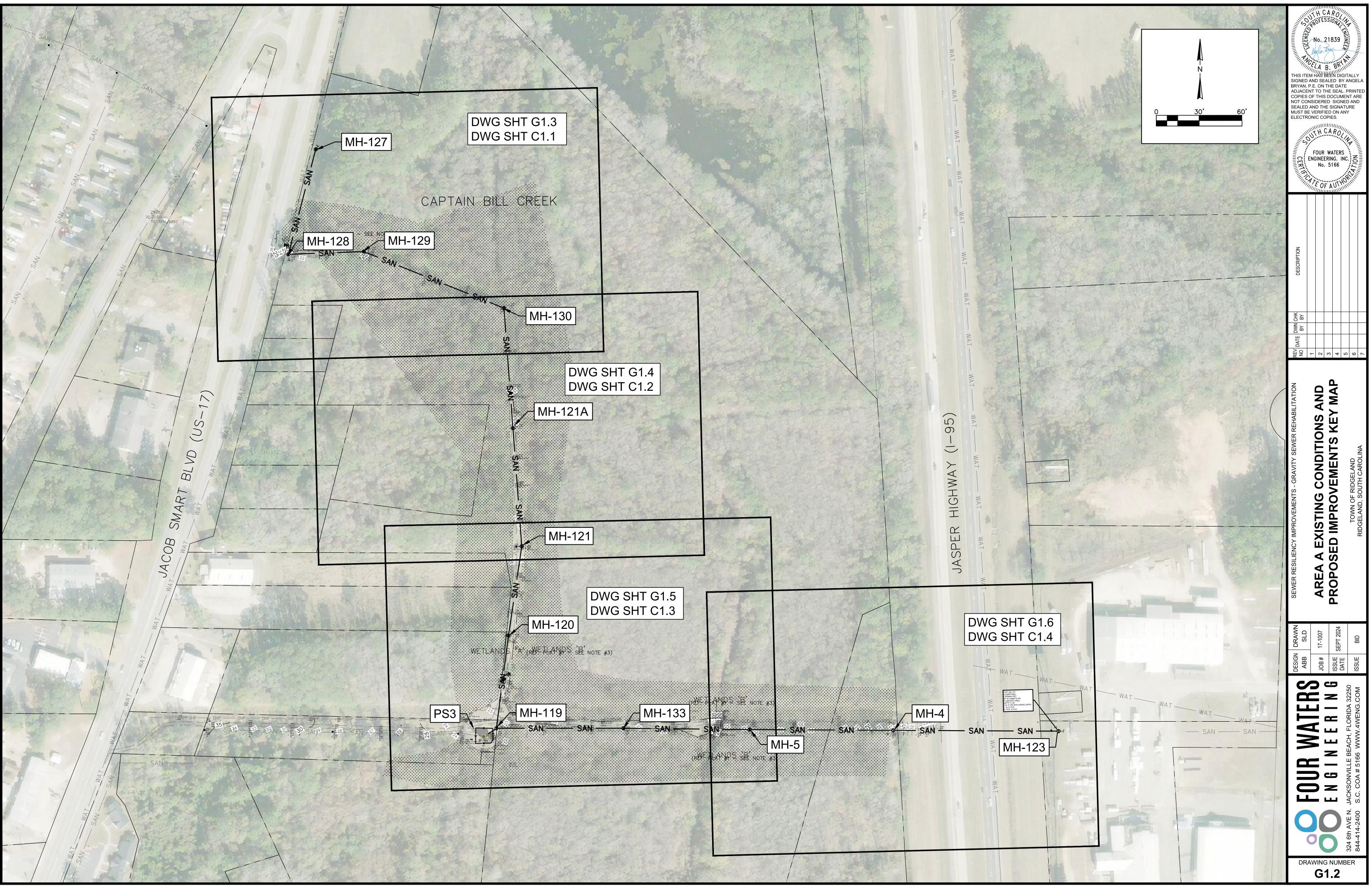
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DRAWING NUMBER G1.1

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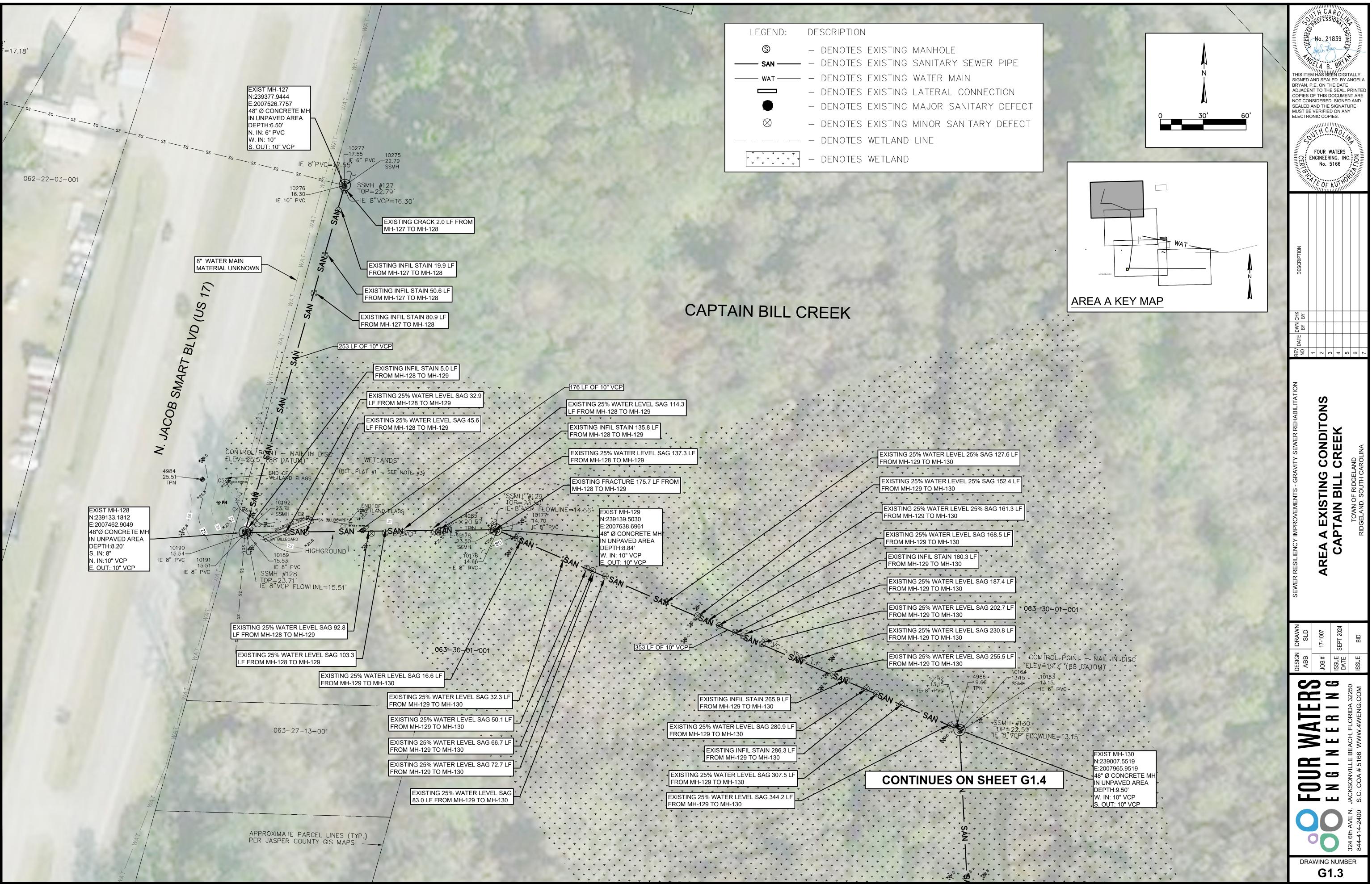
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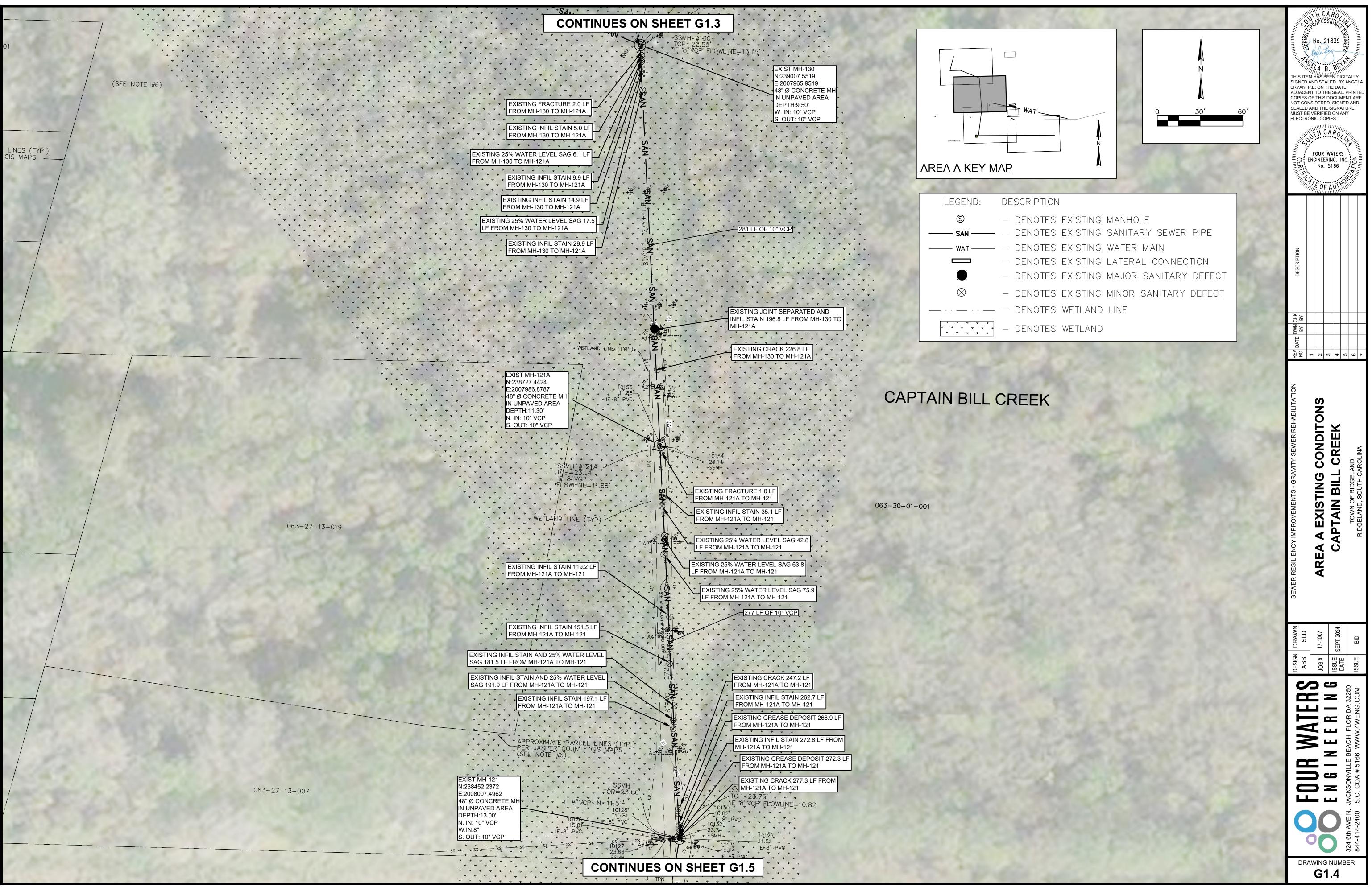
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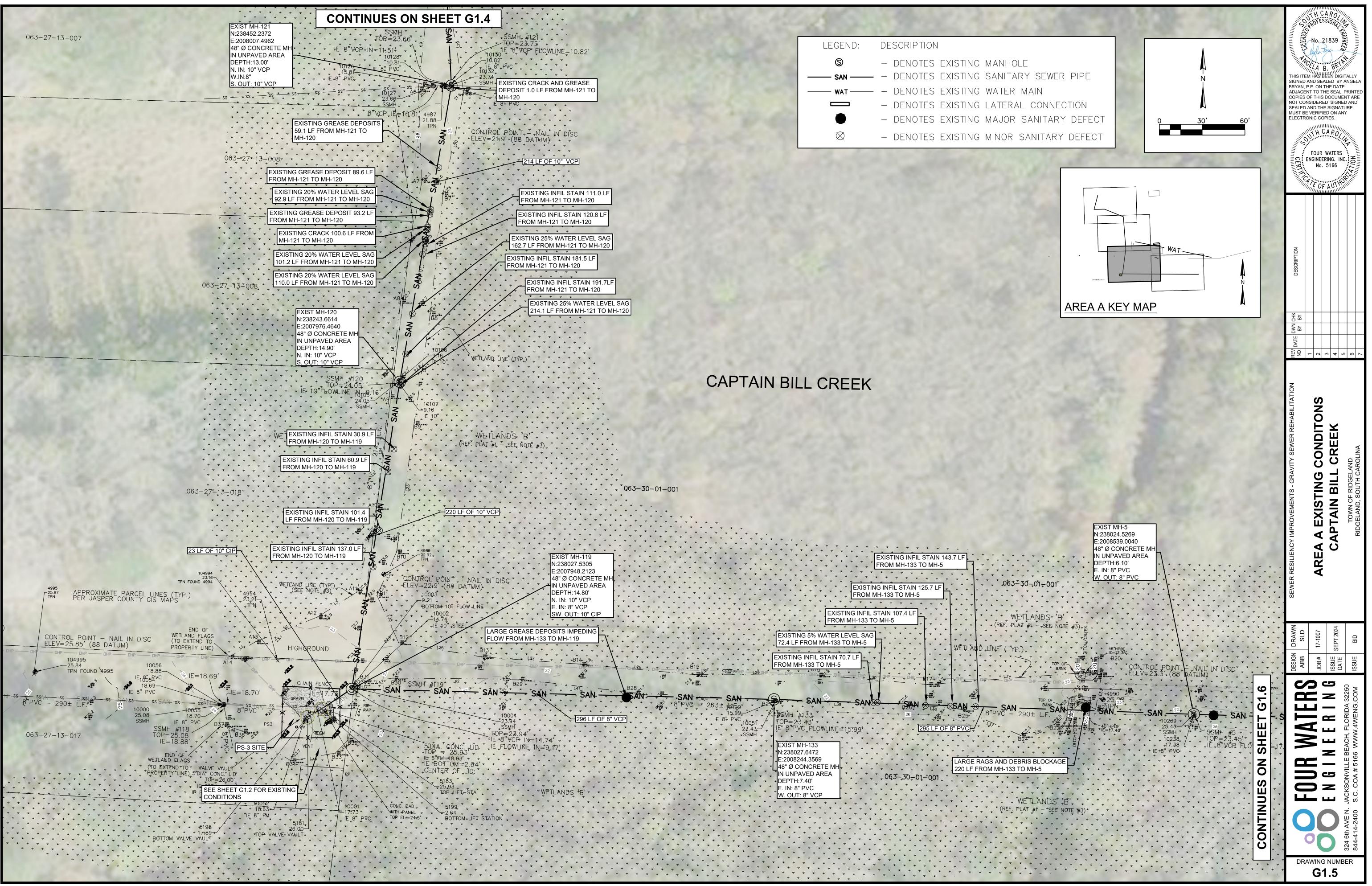
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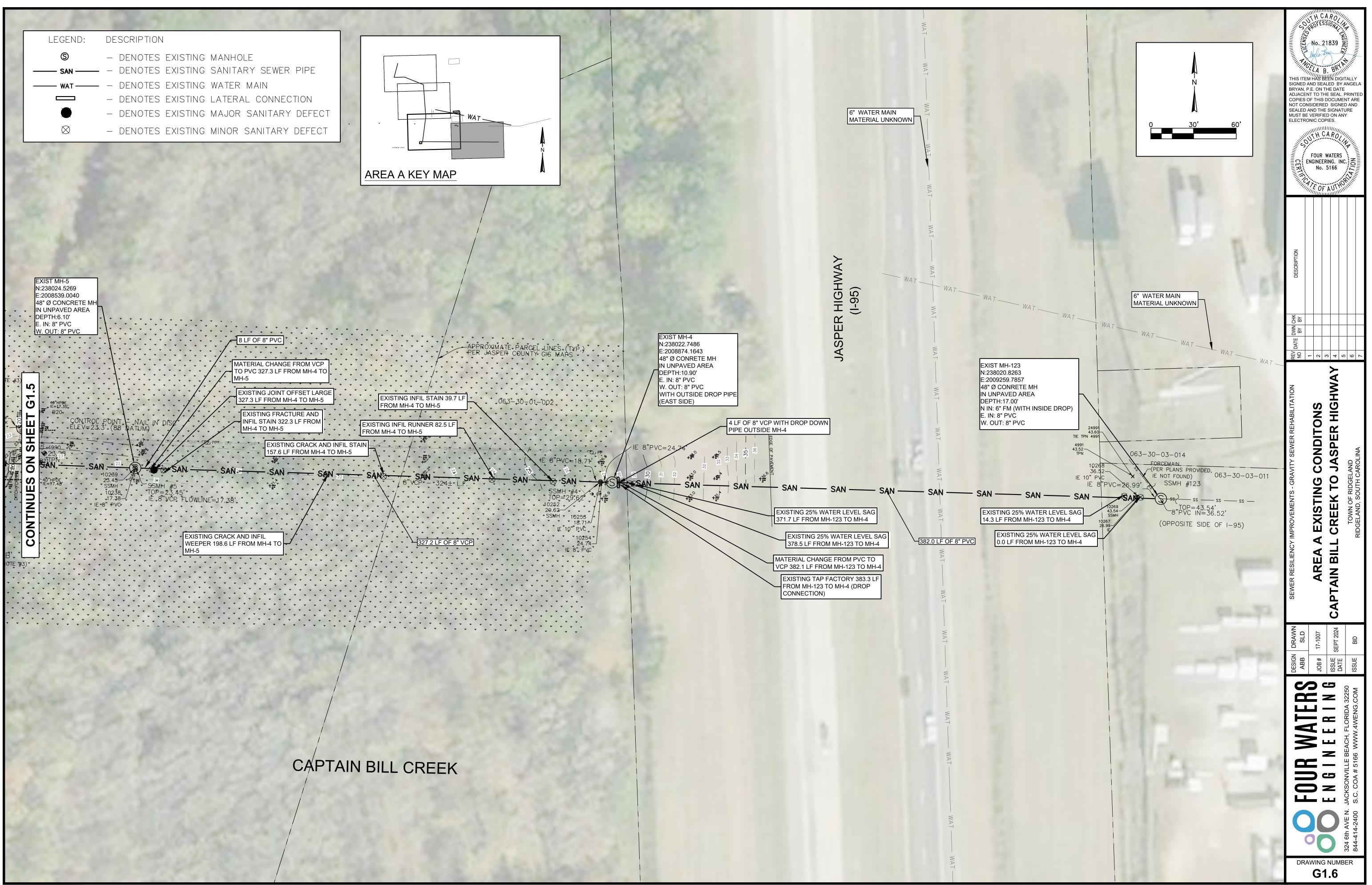
	1000 C C C C C C C C C C C C C C C C C C	Contraction and the second day
A	LEGEND:	DESCRIPTION
7	S	- DENOTES EXISTING MANHOLE
	SAN	- DENOTES EXISTING SANITARY SEWER PIPE
L	WAT	- DENOTES EXISTING WATER MAIN
٩		- DENOTES EXISTING LATERAL CONNECTION
۲	۲	- DENOTES EXISTING MAJOR SANITARY DEFI
1	\otimes	- DENOTES EXISTING MINOR SANITARY DEFE
6	· · · ·	– DENOTES WETLAND LINE
1	* * * * * * * * * * * * * * *	- DENOTES WETLAND



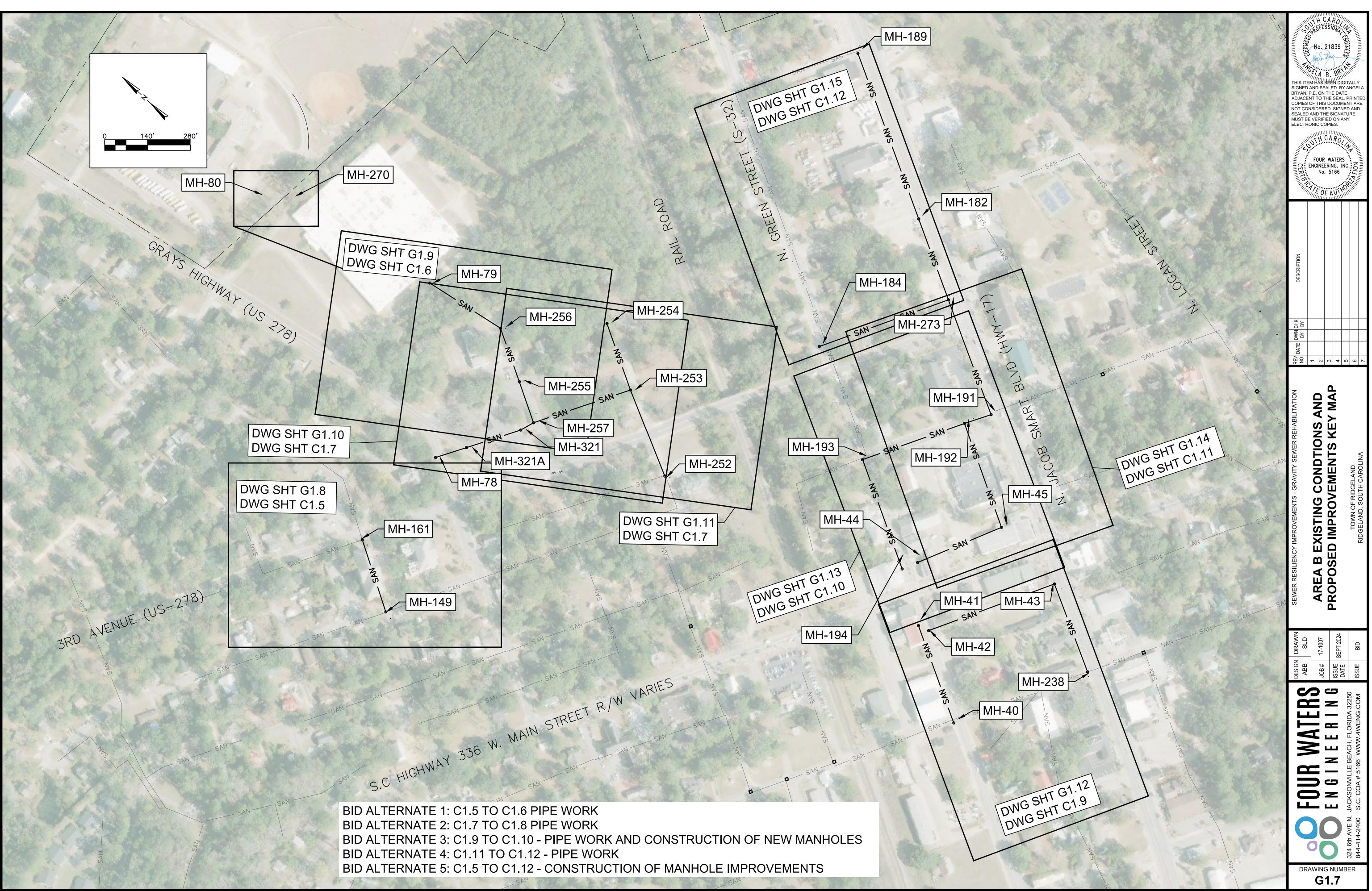
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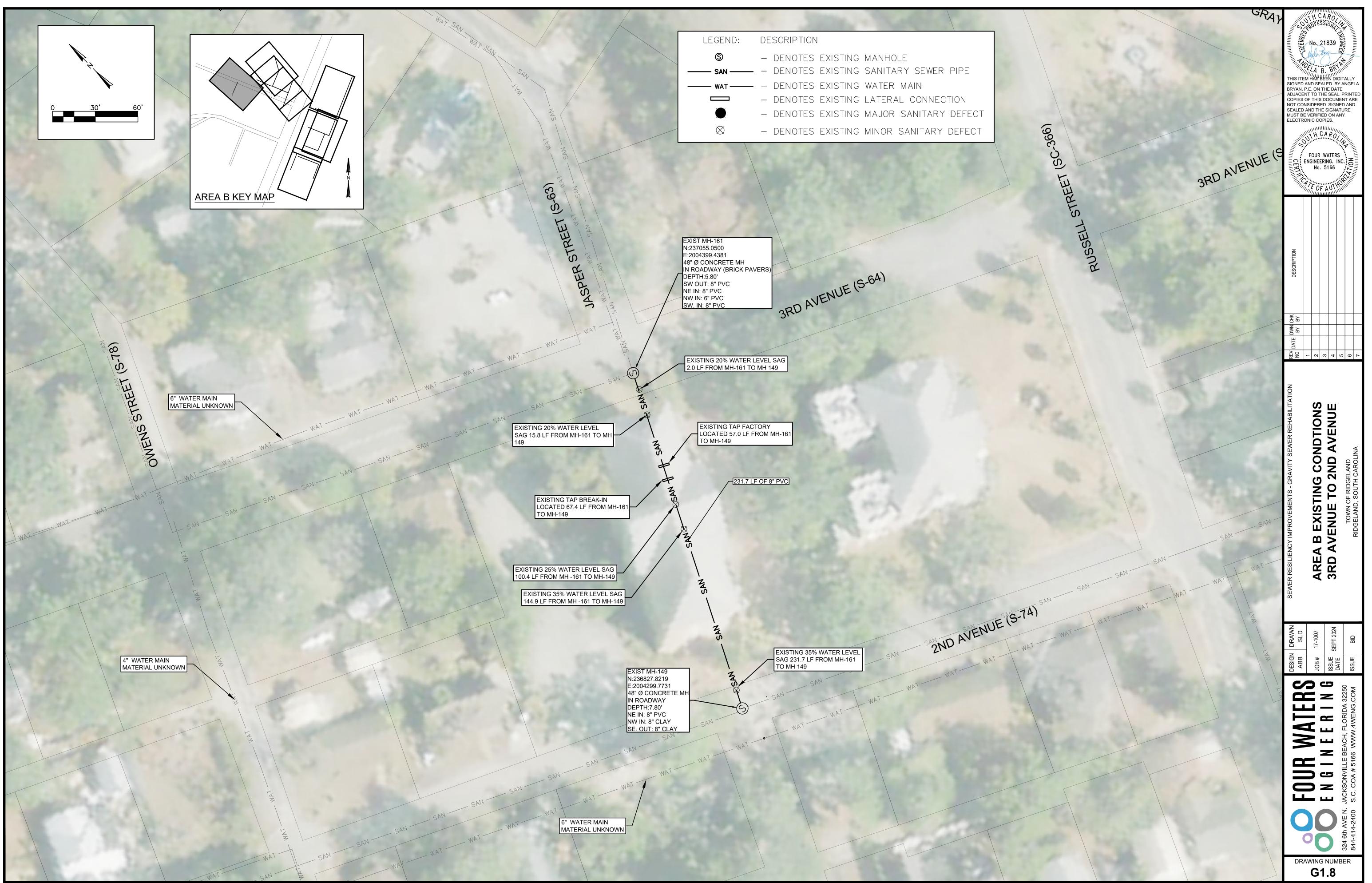


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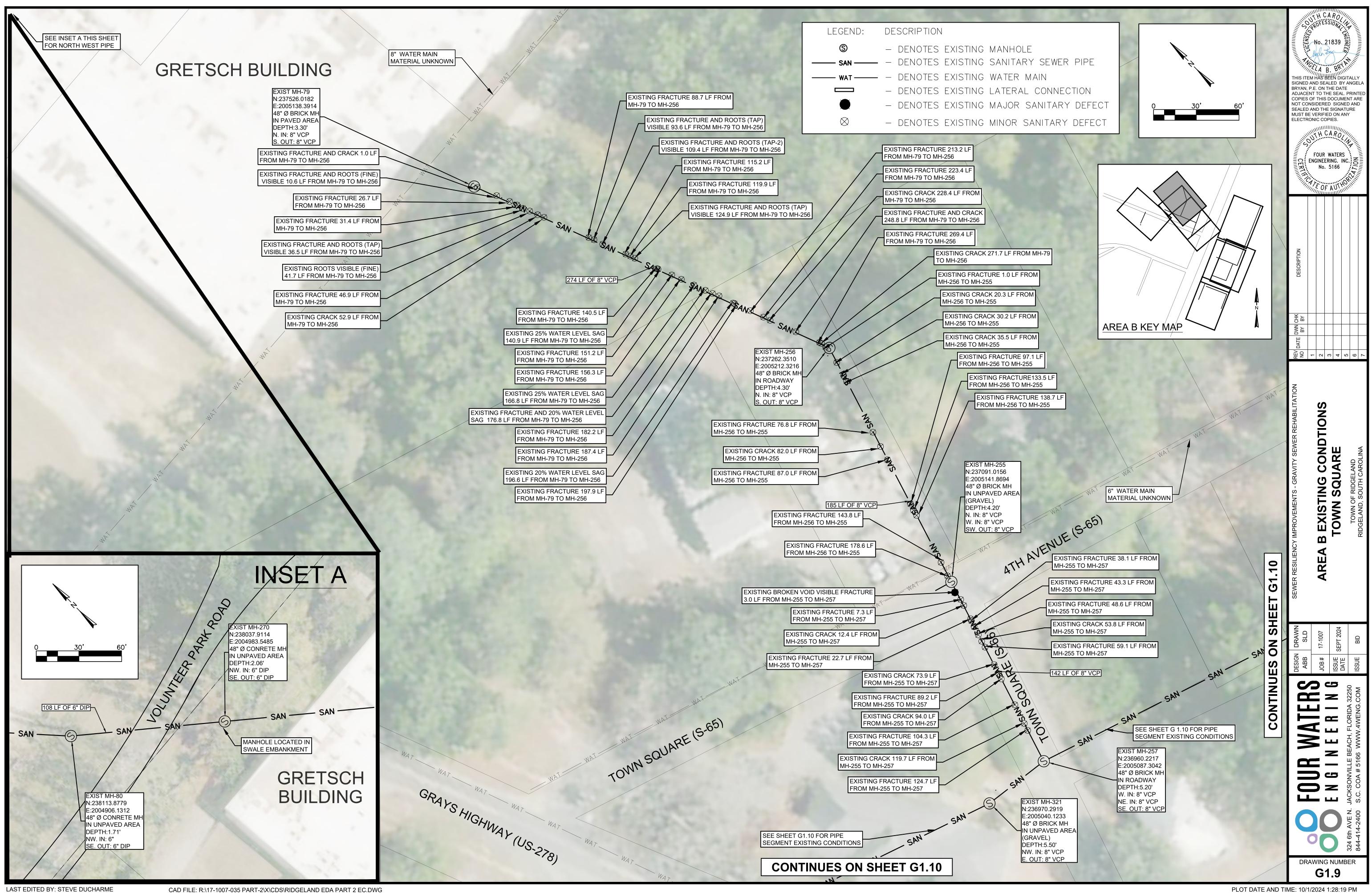
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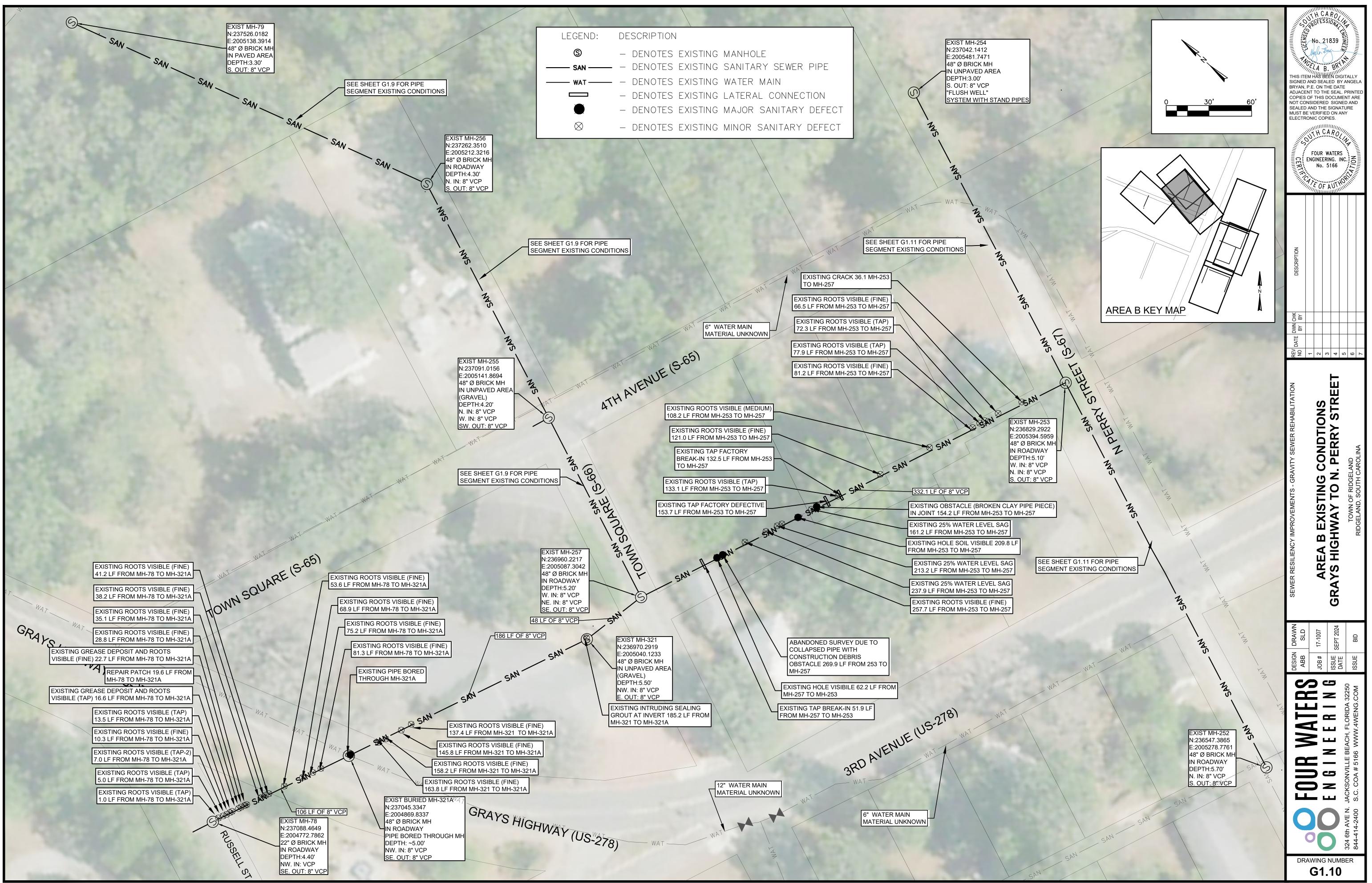


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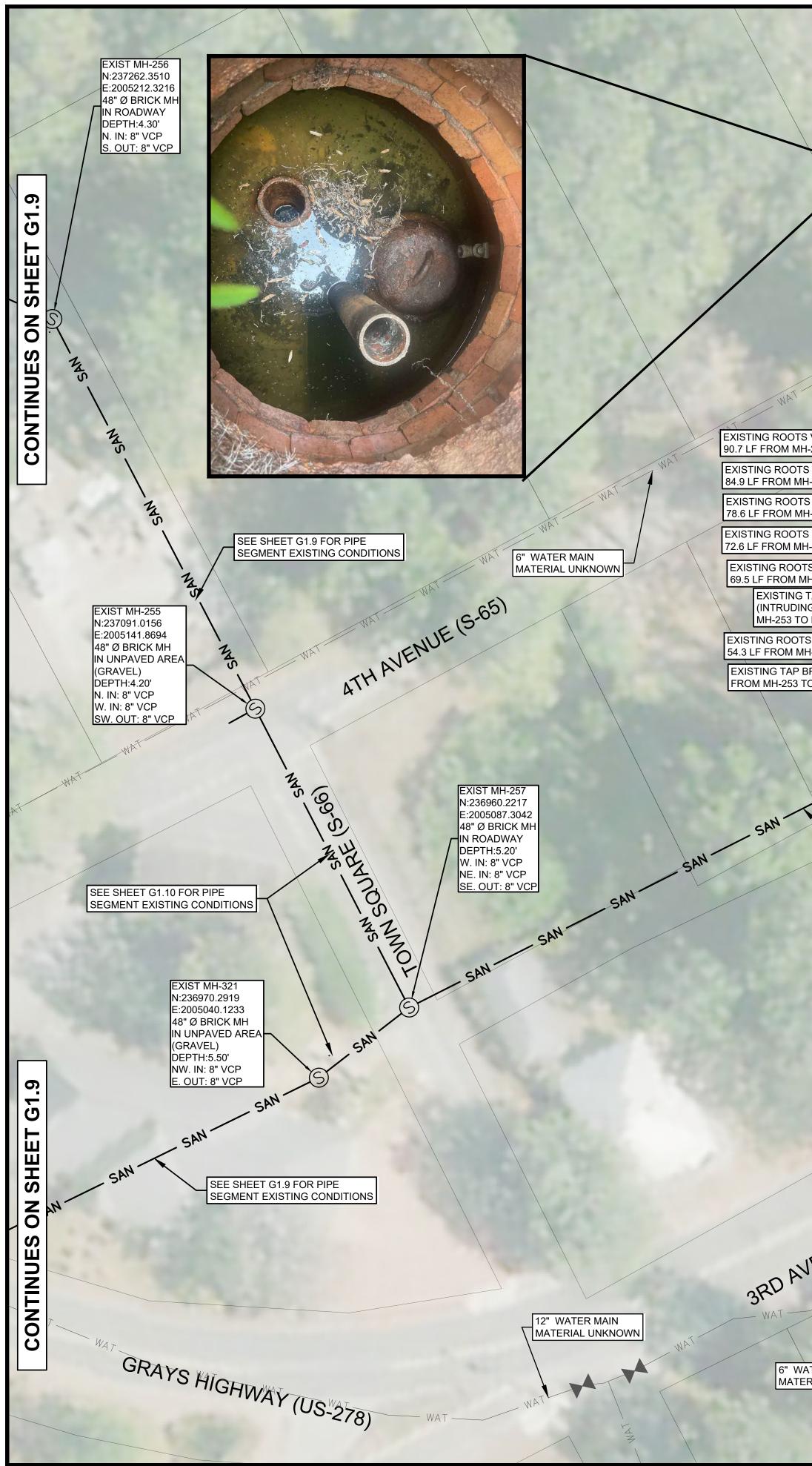
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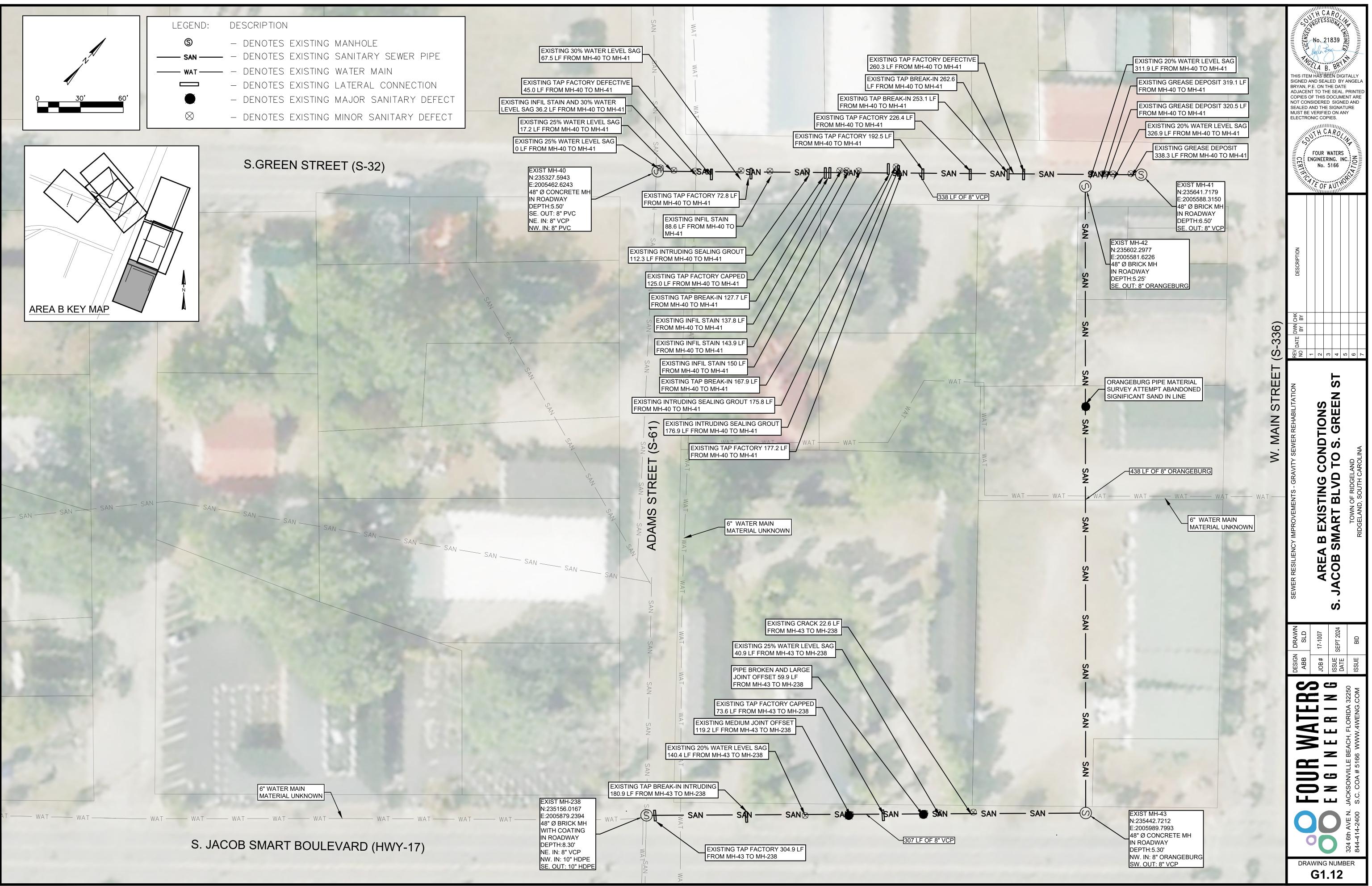


S C CARDINE THE	SURVEY ABANDONED, EXTERNAL PIPE BORED THROUGH WALL, EXISTING HOLE, EXTERNAL		CONTRACT OF
EXIST MH-254 N:237042.1412	PIPE, AND ROOTS VISIBLE (FINE AND TAP) 124.1 LF FROM MH-253 TO MH-254	LEGEND: [DESCRIPTION
E:2005481.7471 48" Ø BRICK MH	EXISTING 25% WATER LEVEL SAG 118.0 LF FROM MH-253 TO MH-254	S -	- DENOTES EXISTING M.
IN UNPAVED AREA DEPTH:3.00' S. OUT: 8" VCP	EXISTING ROOTS VISIBLE (TAP) 115.2 LF FROM MH-253 TO MH-254	——— SAN ——— —	- DENOTES EXISTING SA
"FLUSH WELL" SYSTEM WITH STAND PIPES	EXISTING ROOTS VISIBLE (TAP)	WAT	- DENOTES EXISTING W
\mathbf{R}	EXISTING ROOTS VISIBLE (TAP)		- DENOTES EXISTING LA - DENOTES EXISTING M
	109.1 LF FROM MH-253 TO MH-254		- DENOTES EXISTING MI
NAS //	EXISTING ROOTS VISIBLE (FINE) 106.3 LF FROM MH-253 TO MH-254		
$\langle \rangle$	EXISTING ROOTS VISIBLE (TAP-2) 103.1 LF FROM MH-253 TO MH-254		
Mas /////	EXISTING ROOTS VISIBLE (TAP) AND 25% WA LEVEL SAG 99.8 LF FROM MH-253 TO MH-254	TER	
	EXISTING ROOTS VISIBLE (TAP)		
WAT WAT 2 MAT	96.7 LF FROM MH-253 TO MH-254 EXISTING ROOTS VISIBLE (TAP)	EXISTING ROOTS VISIBLE 47.9 LF FROM MH-253 TO	
230 LF OF 8" VCP	94.2 LF FROM MH-253 TO MH-254	EXISTING 20% WATER LEV 37.1 LF FROM MH-253 TO M	
		EXISTING ROOTS VISIBLE FROM MH-253 TO MH-254	and the second s
TS VISIBLE (TAP) MH-253 TO MH-254		EXISTING 20% WATER LE	
DTS VISIBLE (TAP) MH-253 TO MH-254		29.0 LF FROM MH-253 TO EXISTING ROOTS VISIBLE	E (FINE AND TAP)
DTS VISIBLE (TAP) MH-253 TO MH-254		23.4 LF FROM MH-253 TO EXISTING ROOTS VISIBLE	
DTS VISIBLE (TAP) MH-253 TO MH-254		FROM MH-253 TO MH-254 EXISTING ROOTS VISIBLE	
OTS VISIBLE (TAP) I MH-253 TO MH-254		11.2 LF FROM MH-253 TO I	MH-254
G TAP BREAK-IN DING) 59.6 LF FROM TO MH-254	A	FROM MH-253 TO MH-254	
DTS VISIBLE (FINE)	EXIST MH-253 N:236829.2922		
MH-253 TO MH-254 P BREAK-IN 53.5 LF 3 TO MH-254 SAN	E:2005394.5959 48" Ø BRICK MH IN ROADWAY		
	DEPTH:5.10' W. IN: 8" VCP		
SAN	The second se	EXISTING TAP E FROM MH-253 T	BREAK-IN 52.9 LF
SAN	2	EXISTING ROOT	TS VISIBLE (FINE) 1H-253 TO MH-252
SAN [133.6 LF OF 8" VO		EXISTING ROOT	TS VISIBLE (FINE)
T			IH-253 TO MH-252 BREAK-IN 93.4 LF
SEE SHEET G1.9 FOR PIPE	The states	FROM MH-253	TO MH-252
SEGMENT EXISTING CONDITIONS	S I I I I I I I I I I I I I I I I I I I		
		N:236706.8751	
EXISTING TAP FACTOR	LF OF 8" CAST IRON Y CAPPED 231.7 LF	E:2005343.7511 MATERIAL CHAN	IGE: 8" VCP TO 8" CAST IRON
FROM MH-253 TO MH-24	52 JRE 233.5 LF FROM	133.6 LF FROM N	DENCRUSTATION 1H-253 TO MH-252
MH-253 TO MH-252 EXISTING TAP FACTO		N:236706.8751 E:2005343.7511 MATERIAL CHAN	GE: 8" CAST IRON TO 8" VCP
FROM MH-253 TO MH-		WITH ATTACHED	ENCRUSTATION AND 146.0 LF FROM MH-253 TO MH-252
MH-253 TO MH-252		→ → 156.1 LF OF 8"	VCD
	TTS VISIBLE (MEDIUM) M MH-253 TO MH-252	4 136.1 LF OF 8	
EXISTING GREASE DEPO VISIBLE (FINE) 260.4 LF F		TX XX	
EXISTING ROOTS VISIBLE (TA WATER LEVEL SAG 263.6 LF	AP AND FINE) AND 25% FROM MH-253 TO MH-252		EXIST MH-252
EXISTING 266.4 LF F	ROOTS VISIBLE (FINE) ROM MH-253 TO MH-252	TANK TANK	N:236547.3865 E:2005278.7761 48" Ø BRICK MH
EXISTING G	REASE DEPOSIT 272.7 LF 53 TO MH-252		IN ROADWAY DEPTH:5.70'
EXISTING F	ROOTS VISIBLE (MEDIUM) ROM MH-253 TO MH-252		N. IN:8" VCP S. OUT: 8" VCP
	ROOTS VISIBLE (TAP-2) ROM MH-253 TO MH-252	SAN	
	E (TAP-2) AND 25% WATER	NN SA	6" WATER MAIN
	FRACTURE 283.6 LF FROM		
	G ROOTS VISIBLE (TAP) FROM MH-253 TO MH-252	ZH S	TA A
EXISTING	ROOTS VISIBLE (TAP) FROM MH-253 TO MH-252		
EXISTING	G ROOTS VISIBLE (TAP-2)		TX TX TX
297.4 LF	FROM MH-253 TO MH-252		



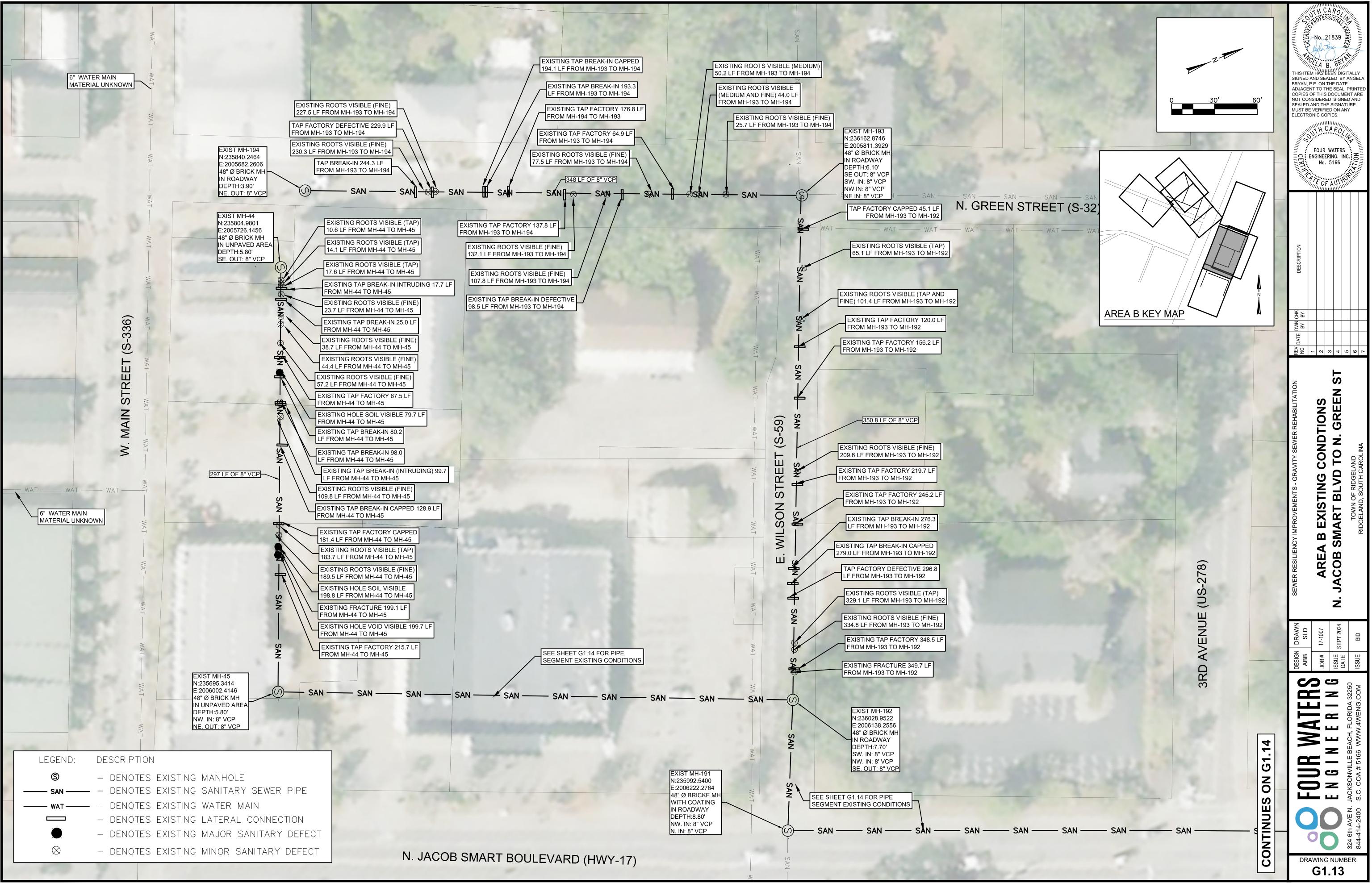
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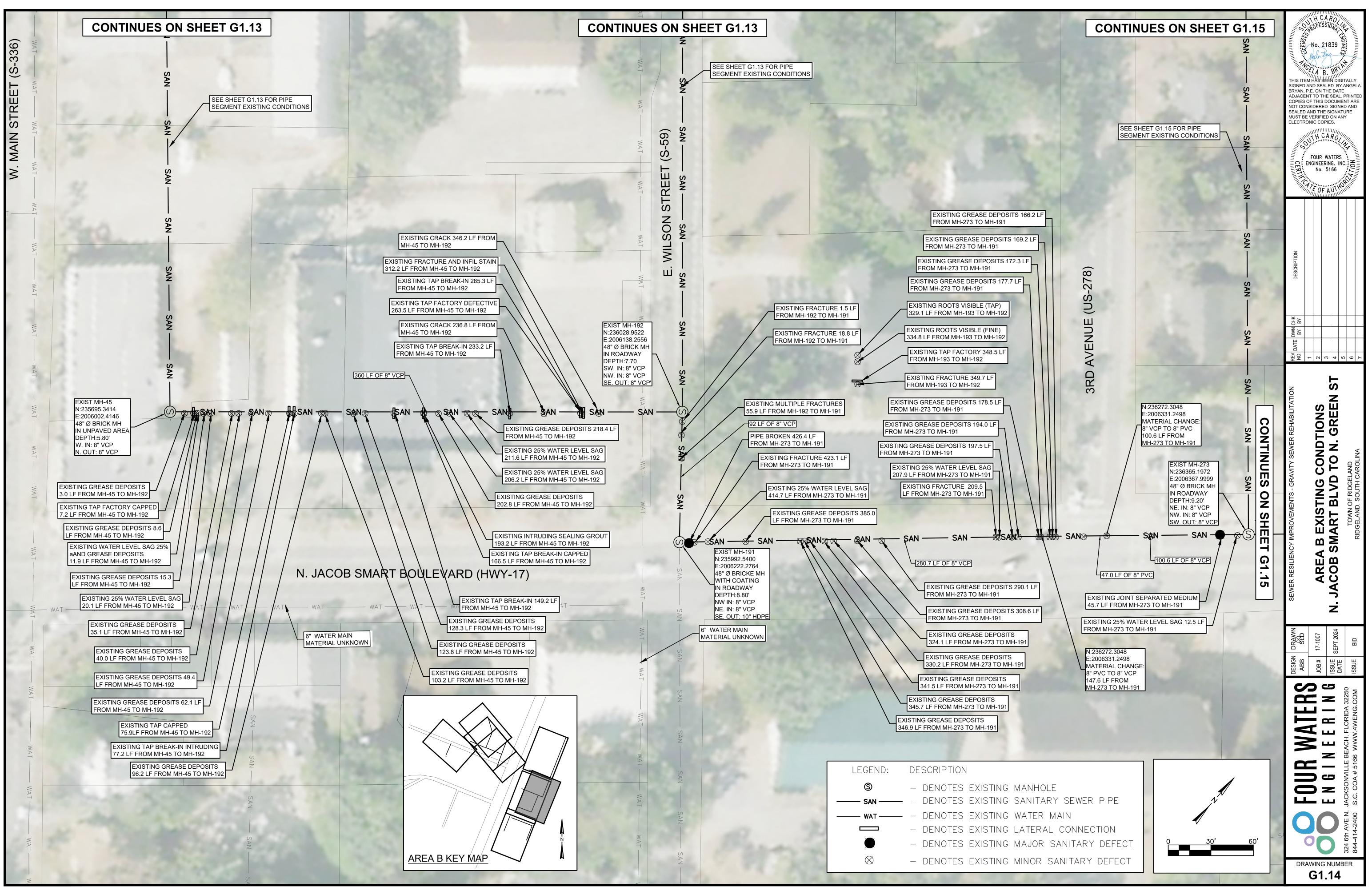
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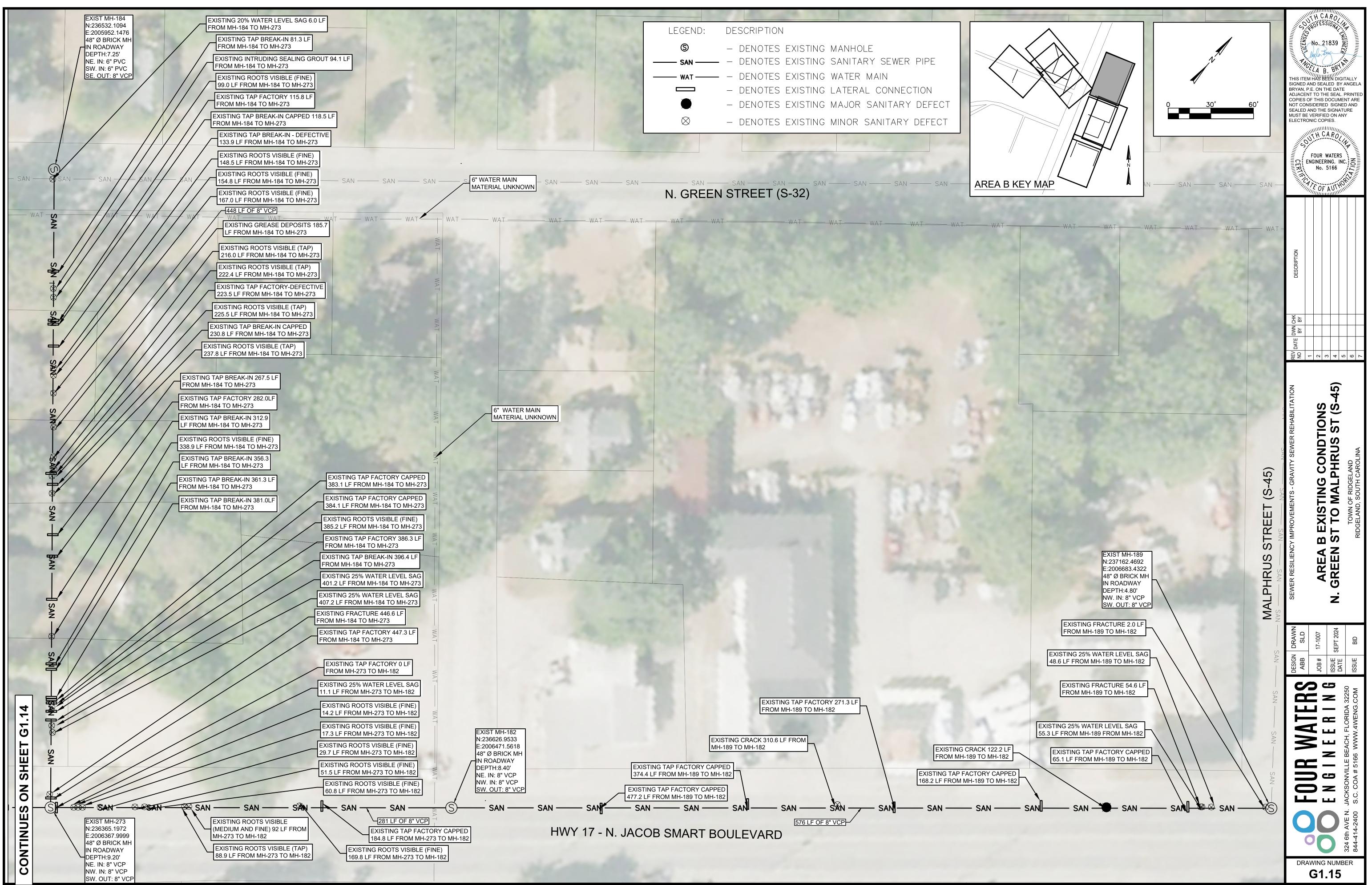
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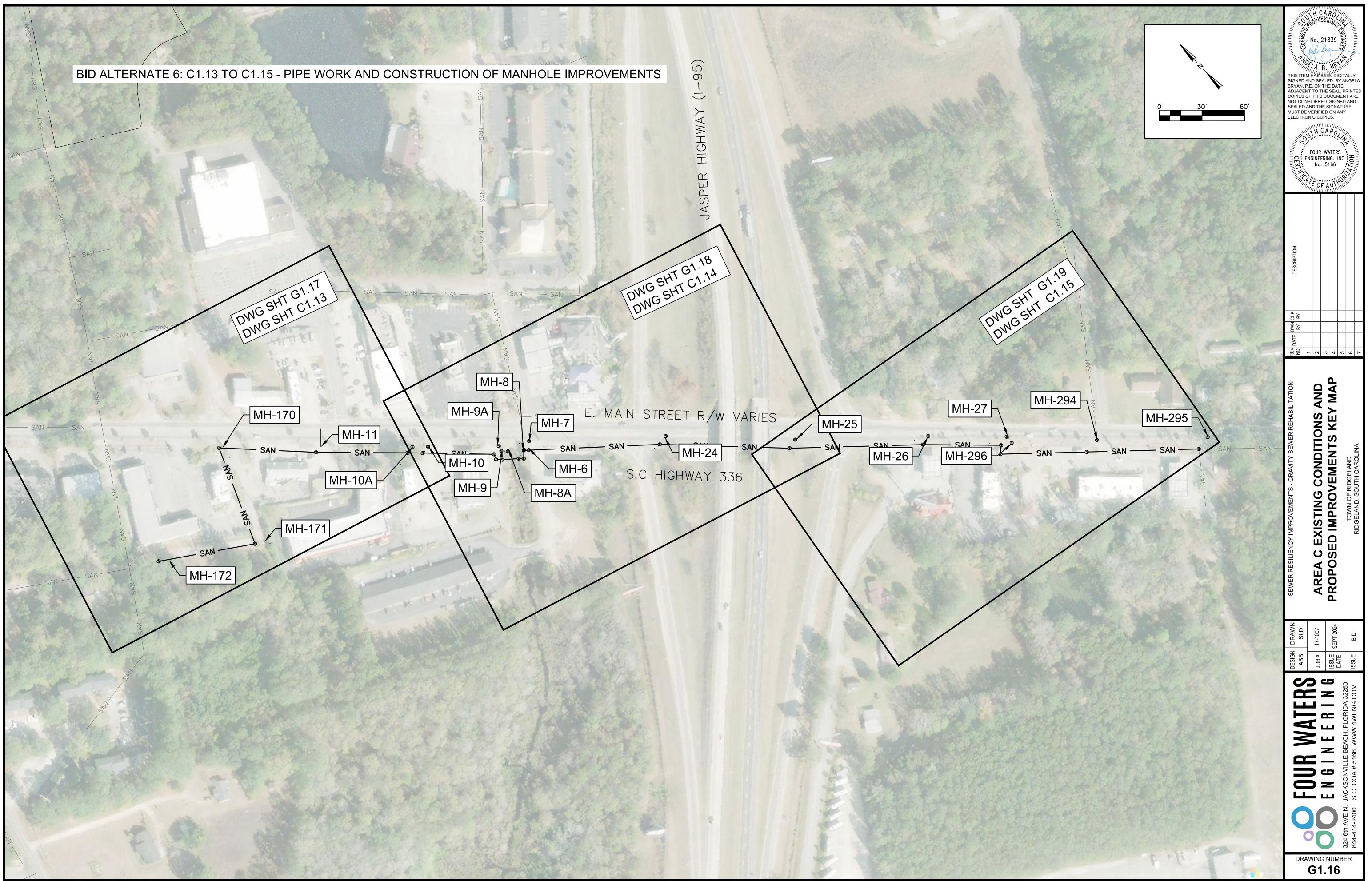


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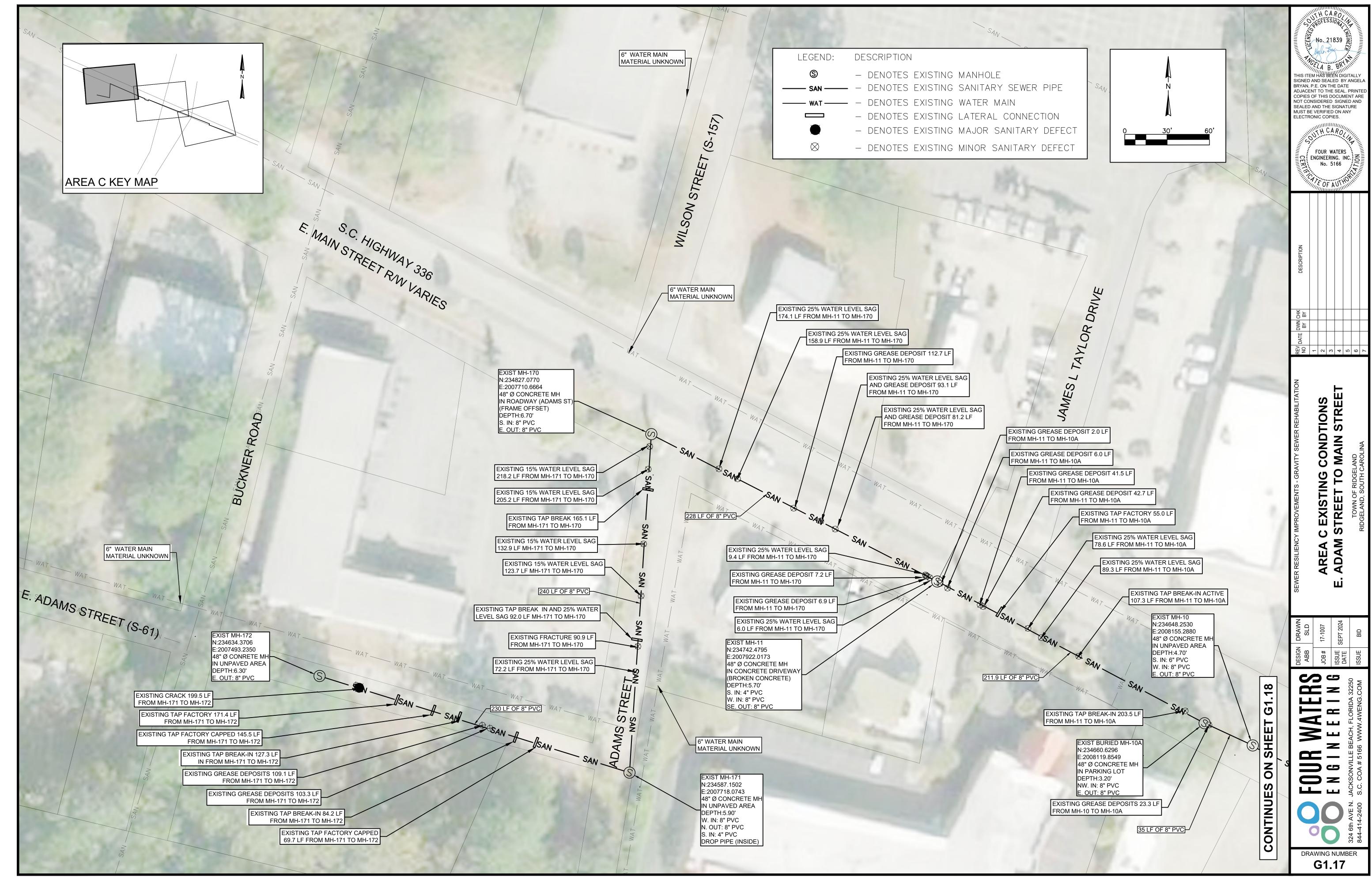
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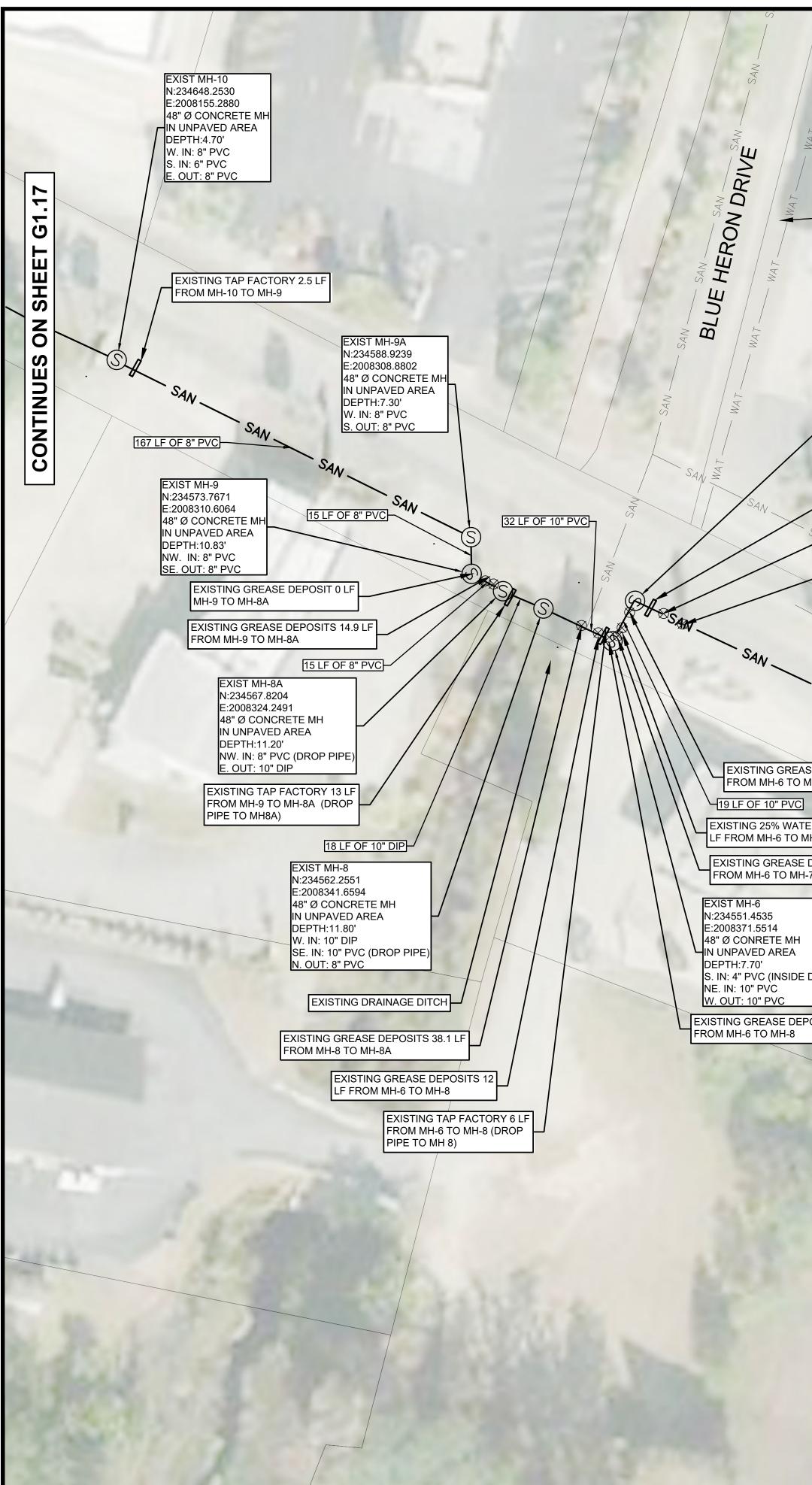


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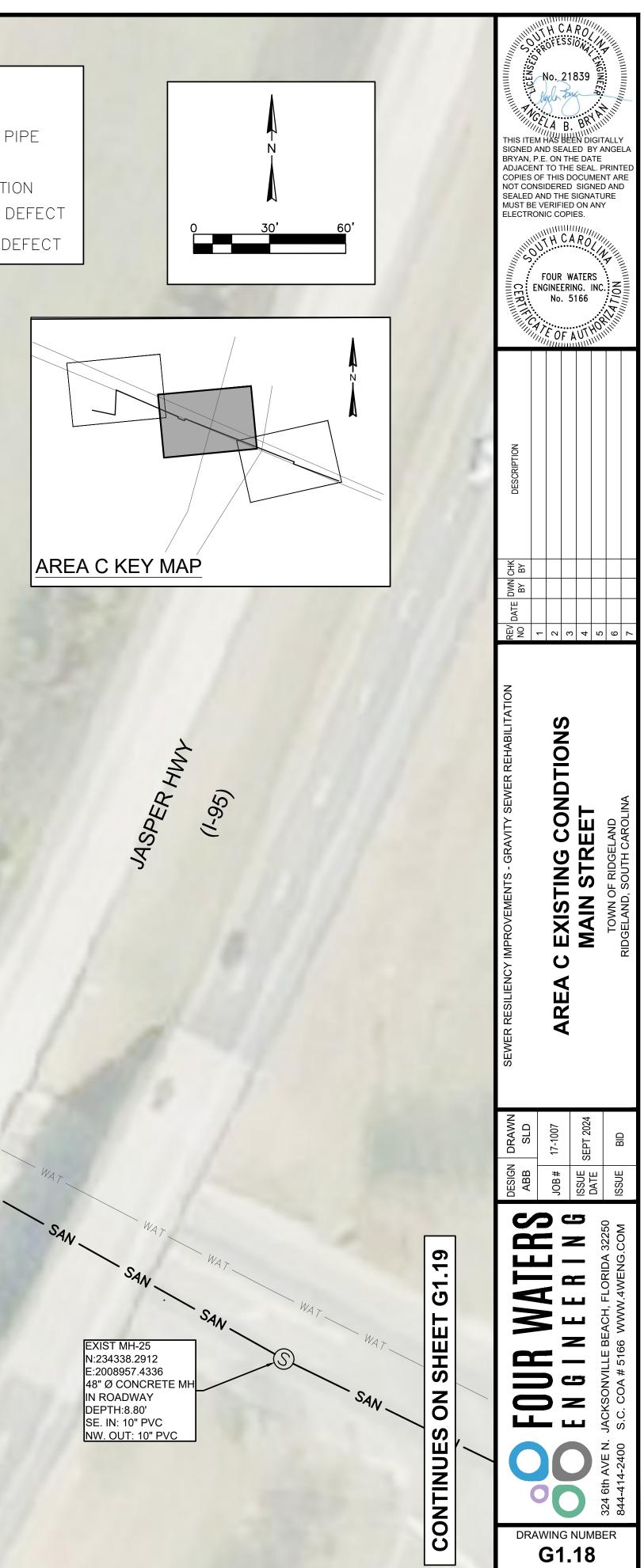
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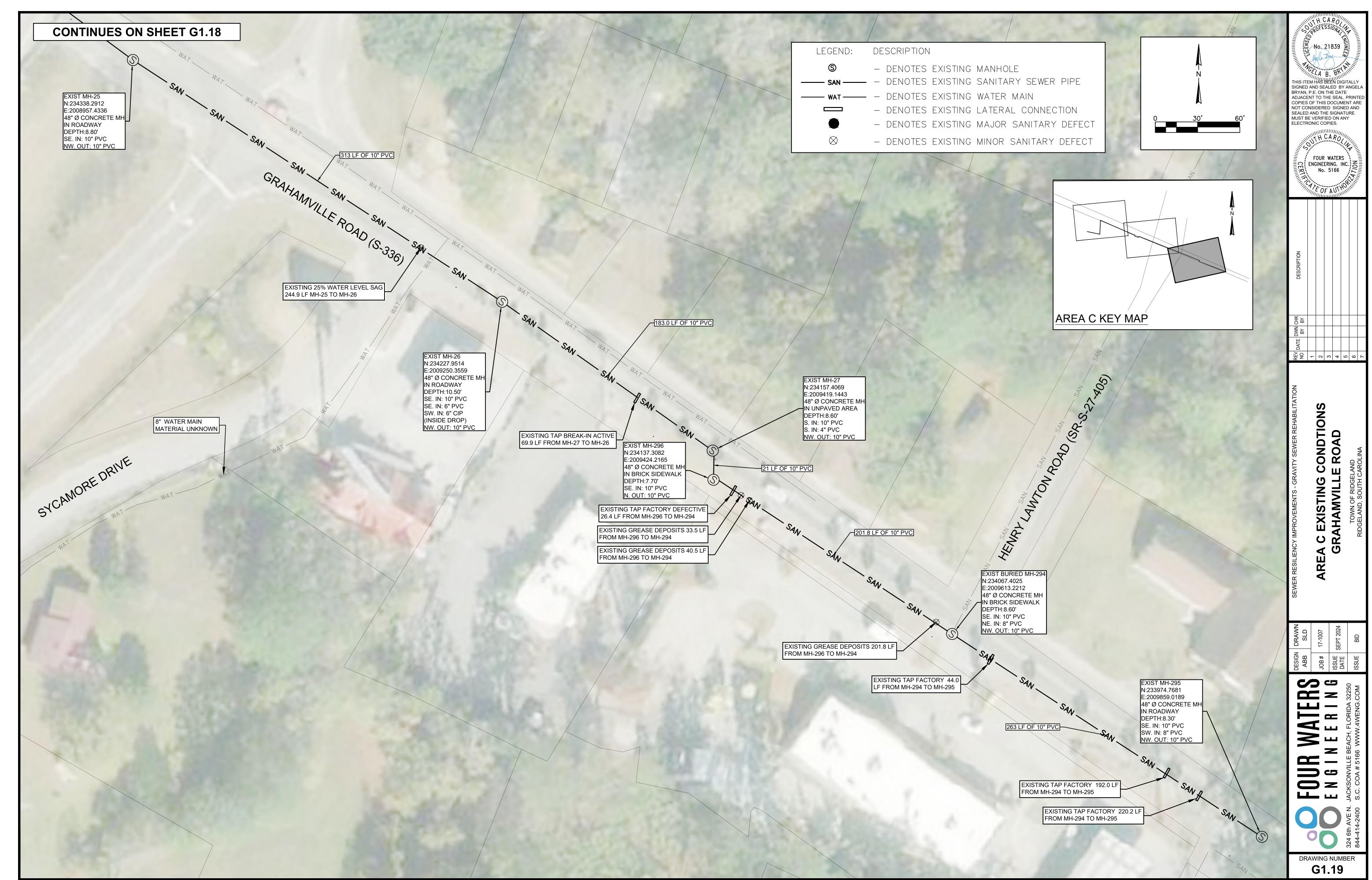


WAT		LEGEND:	DESCRIPTION	
		S	- DENOTES EXISTING MANHOLE	
WAT		SAN WAT	 DENOTES EXISTING SANITARY SEV DENOTES EXISTING WATER MAIN 	WER PI
			– DENOTES EXISTING LATERAL CON	
	8" WATER MAIN MATERIAL UNKNOWN	\otimes	- DENOTES EXISTING MAJOR SANIT	
	and the second		– DENOTES EXISTING MINOR SANITA	ART DE
	EXIST MH-7 N:234569.0790			
	E:2008379.2462 48" Ø CONCRETE MH IN BRICK SIDEWALK			
	DEPTH:7.42' SE IN: 10" PVC (DROP PIPE) SW OUT: 10" PVC			
	EXISTING TAP FACTORY CAPPED 1.5 LF			
/	FROM MH-7 TO MH-24 (DROP PIPE TO MH-7)			
SAA	EXISTING 25% WATER LEVEL SAG 7.5 LF FROM MH-7 TO MH-24			
	EXISTING 25% WATER LEVEL SAG 17.1 LF FROM MH-7 TO MH-24			
WAT				
	WAT			
SAN .	WAT E. MAIN OF			
	SAN WAT STREET			
ASE DEPO) MH-7	NAT E. MAIN STREET A SAW SITS 17.1 LF SAW SITS 17.1 LF S.C. HIGH		ATER MAIN RIAL UNKNOWN	
	L SAG 17.0 TS 6 LF	WAT TES		
MH-7	TRAFE	WAT		
H-7		SAN		
		SAN S	Ar	
1			SAN WAT	
E DROP)		EXIST MH-24 N:234461.6002 E:2008679.4662		
EPOSITS 0	LF	48" Ø CONCRETE MH IN ROADWAY DEPTH:6.58'	SAN WAT WAT	
		SE. IN: 10" PVC NW. OUT: 10" PVC	8 LF OF 10" PVC	- 14.
			SAN	WAT
				SAN

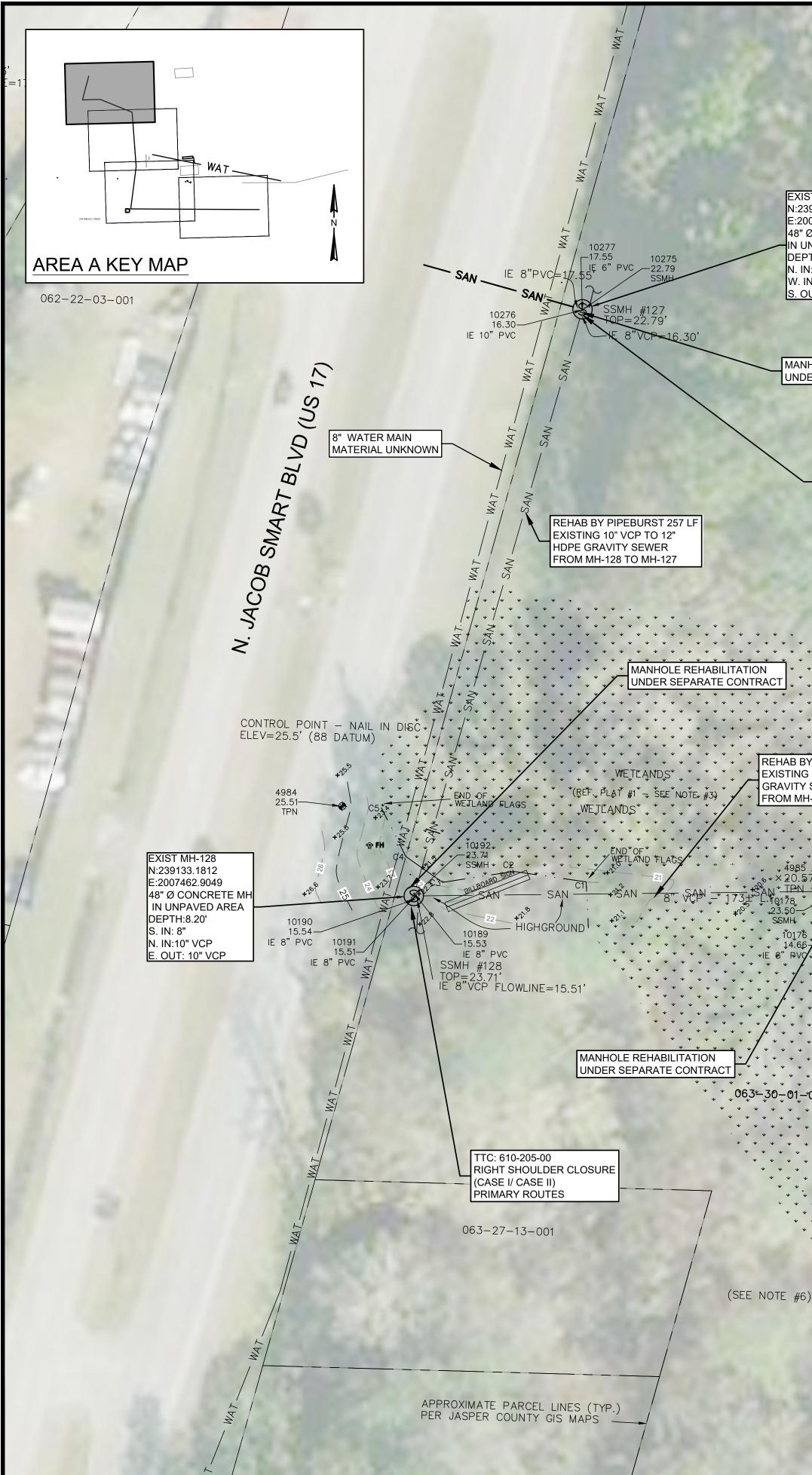


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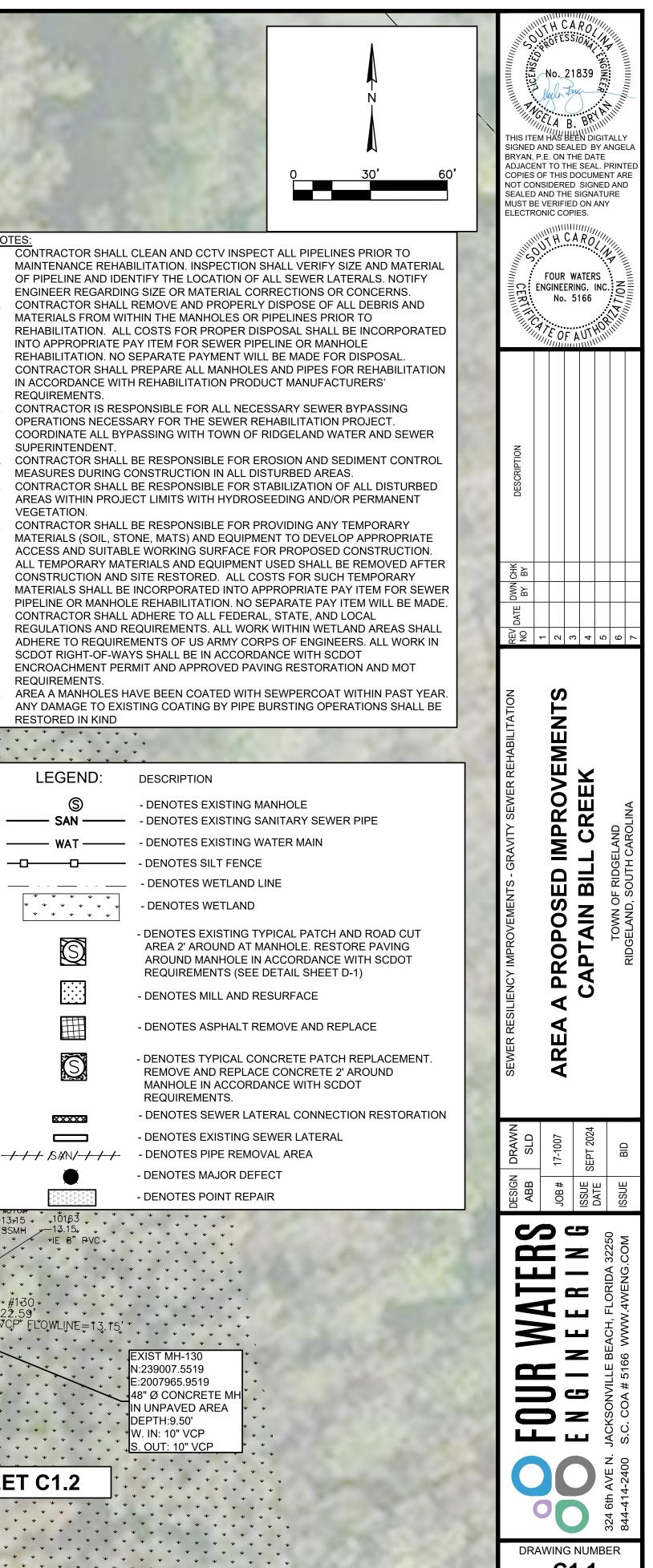
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PLOT DATE AND TIME: 10/1/2024 1:29:11 PM



T MH-127 9377.9444		
07526.7757 Ø CONCRETE MH NPAVED AREA TH:6.50' : 6" PVC		<u>NO</u> 1.
N:10" PVC UT: 10" VCP		2.
HOLE REHABILITATION ER SEPARATE CONTRACT		3.
		4. 5.
TTC: 610-205-00 RIGHT SHOULDER CLOSURE (CASE I/ CASE II) PRIMARY ROUTES		6.
	CAPTAIN BILL CREEK	7.
		$\begin{array}{cccccccccccccccccccccccccccccccccccc$
v v v v v v v v v v v v v v v v v v v v v v v v v v v v v v v v v v v v v v v v		* * * * * * * * * * * * * * * * * * *
Y Y	* * <th>* *</th>	* *
10" VCP TO 12" HDPE	* * <th>* *</th>	* *
* \$\$\$MH*#129 TOR=23.50 IE*8"VCP FLOWLINE=14.66' 10177 14.70 IE*8"PVC * * * * * * * * * * * * * * * * * * *	+ + <th>* *</th>	* *
48" Ø CONCRETE MH 48" Ø CONCRETE MH IN UNPAVED AREA DEPTH:8.84' W. IN: 10" VCP E. OUT: 10" VCP	v v <th>* *</th>	* *
	REHAB BY PIPEBURST 359 LF EXISTING 10" VCP TO 12" HDPE GRAVITY SEWER FROM MH-129 TO MH-130	* *
		* *
	* * * * * * * * * * * * * * * * * * *	* * * * * * * * * * * * * * * * * * *
* * <td>+ + + + + + + + + + + + + + + + + + +</td> <td>$\begin{array}{c} 10162 \\ 1315 \\ 1315 \\ 1315 \\ 151 \\$</td>	+ + + + + + + + + + + + + + + + + + +	$\begin{array}{c} 10162 \\ 1315 \\ 1315 \\ 1315 \\ 151 \\ $
* * <th>* *<th>* * * * * * * * * * * * * * * * * * *</th></th>	* * <th>* * * * * * * * * * * * * * * * * * *</th>	* * * * * * * * * * * * * * * * * * *
* * <td>MANHOLE REHABILITATION UNDER SEPARATE CONTRA</td> <td>CT * * * * * * * * * * * * * * * * * * *</td>	MANHOLE REHABILITATION UNDER SEPARATE CONTRA	CT * * * * * * * * * * * * * * * * * * *
* * * * * * * * * * * * * * * * * * *	* * <th>* * * * * * * * * * * * * * * * * * *</th>	* * * * * * * * * * * * * * * * * * *
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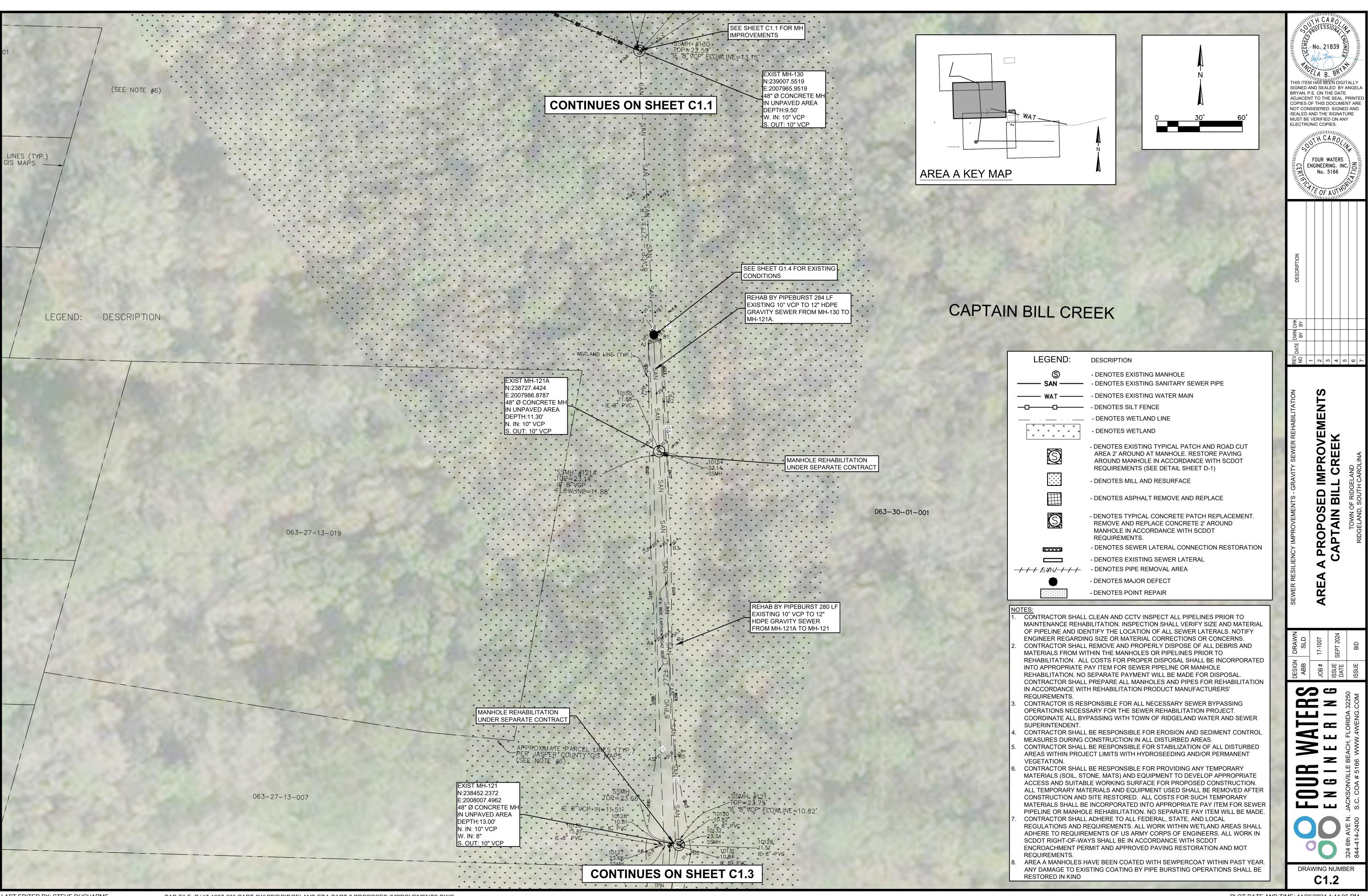
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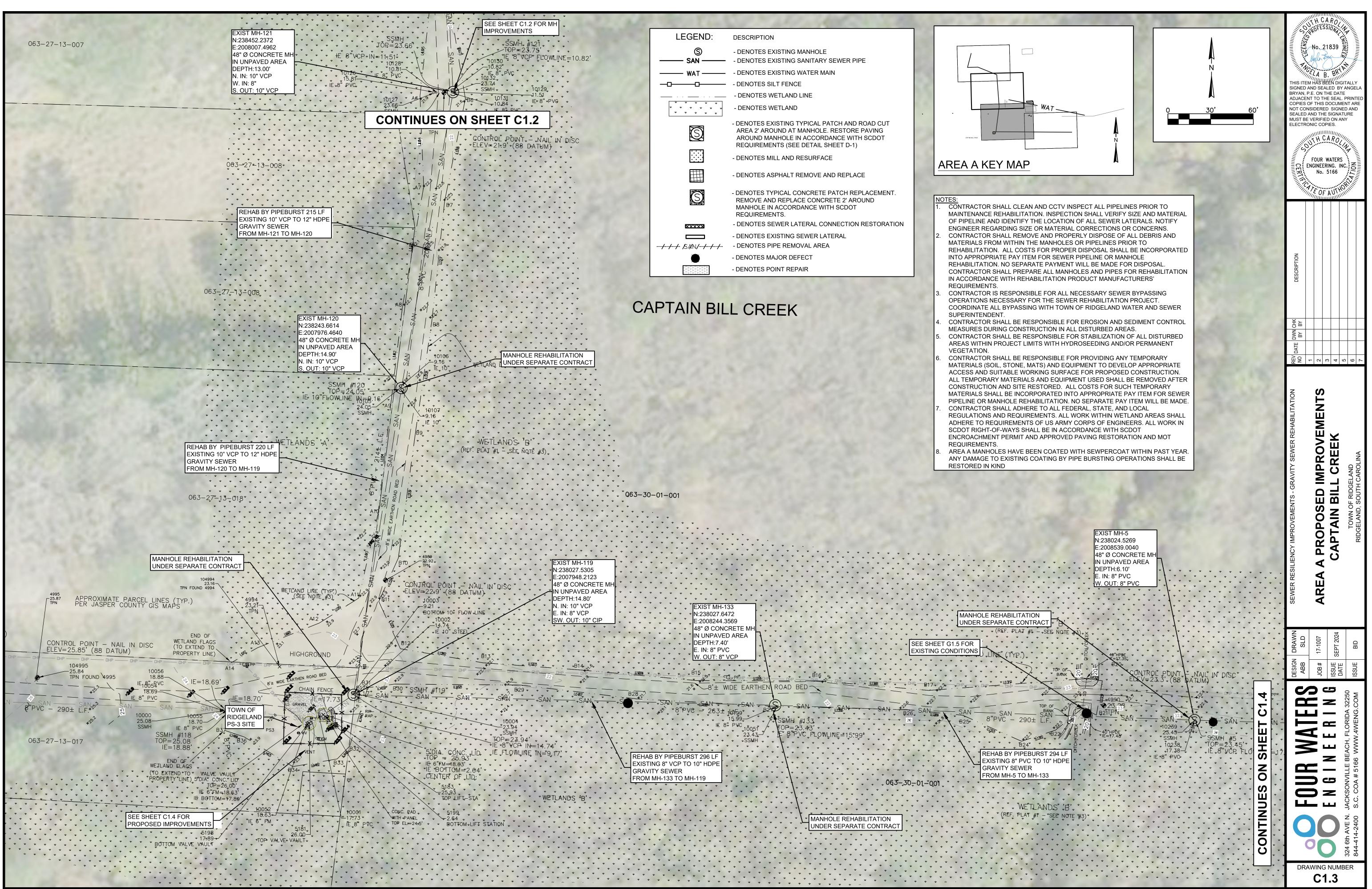
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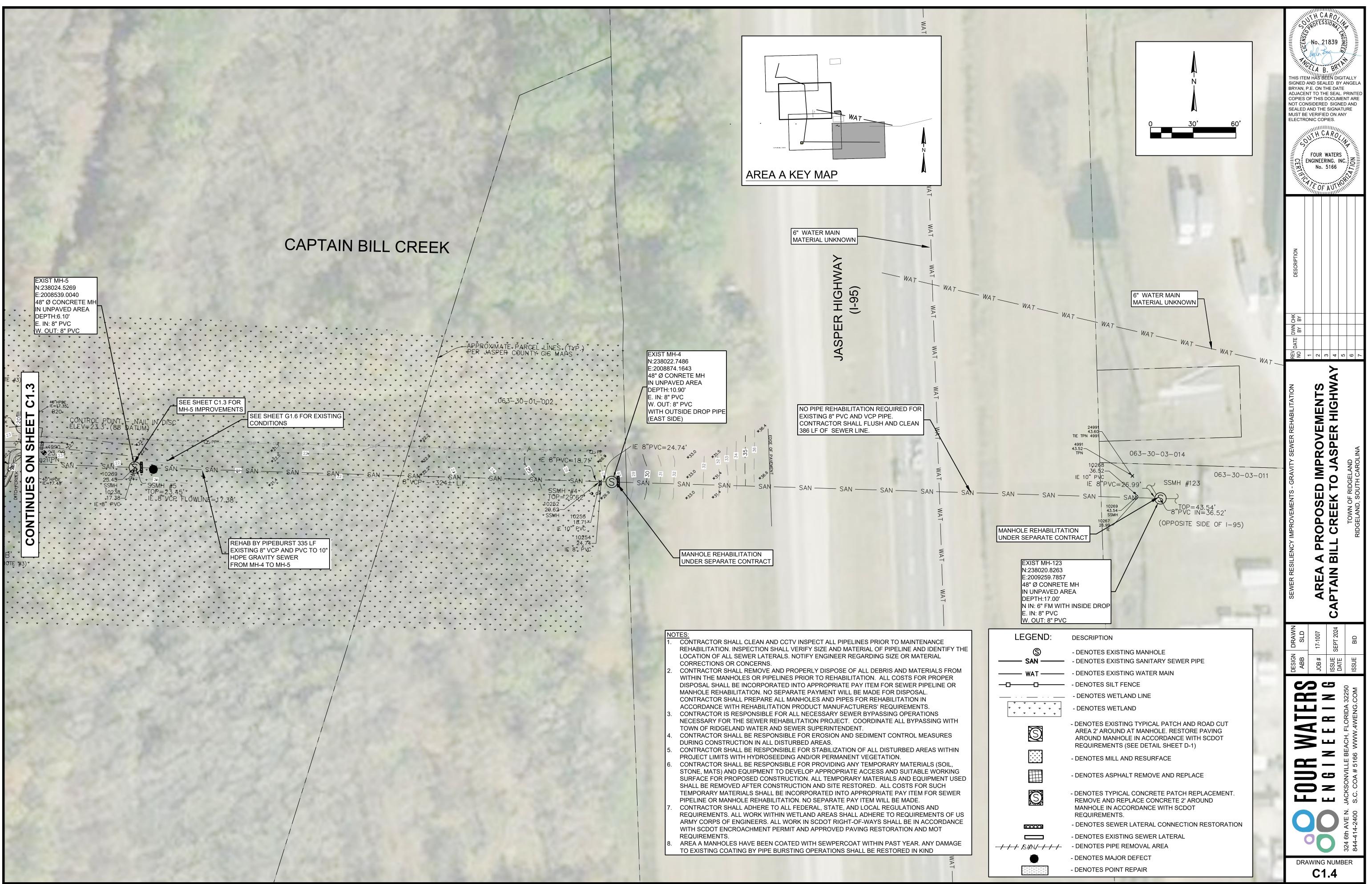
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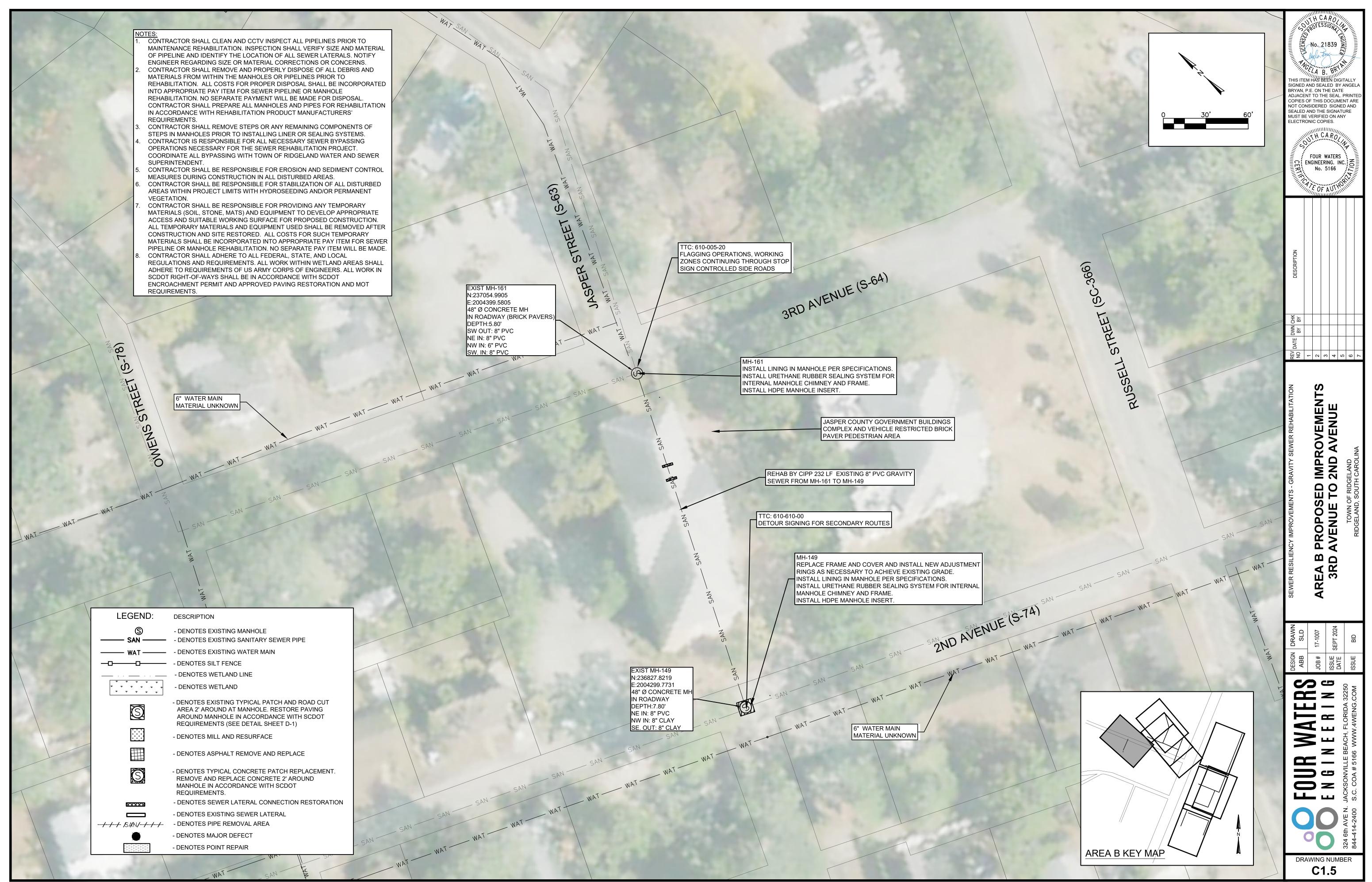


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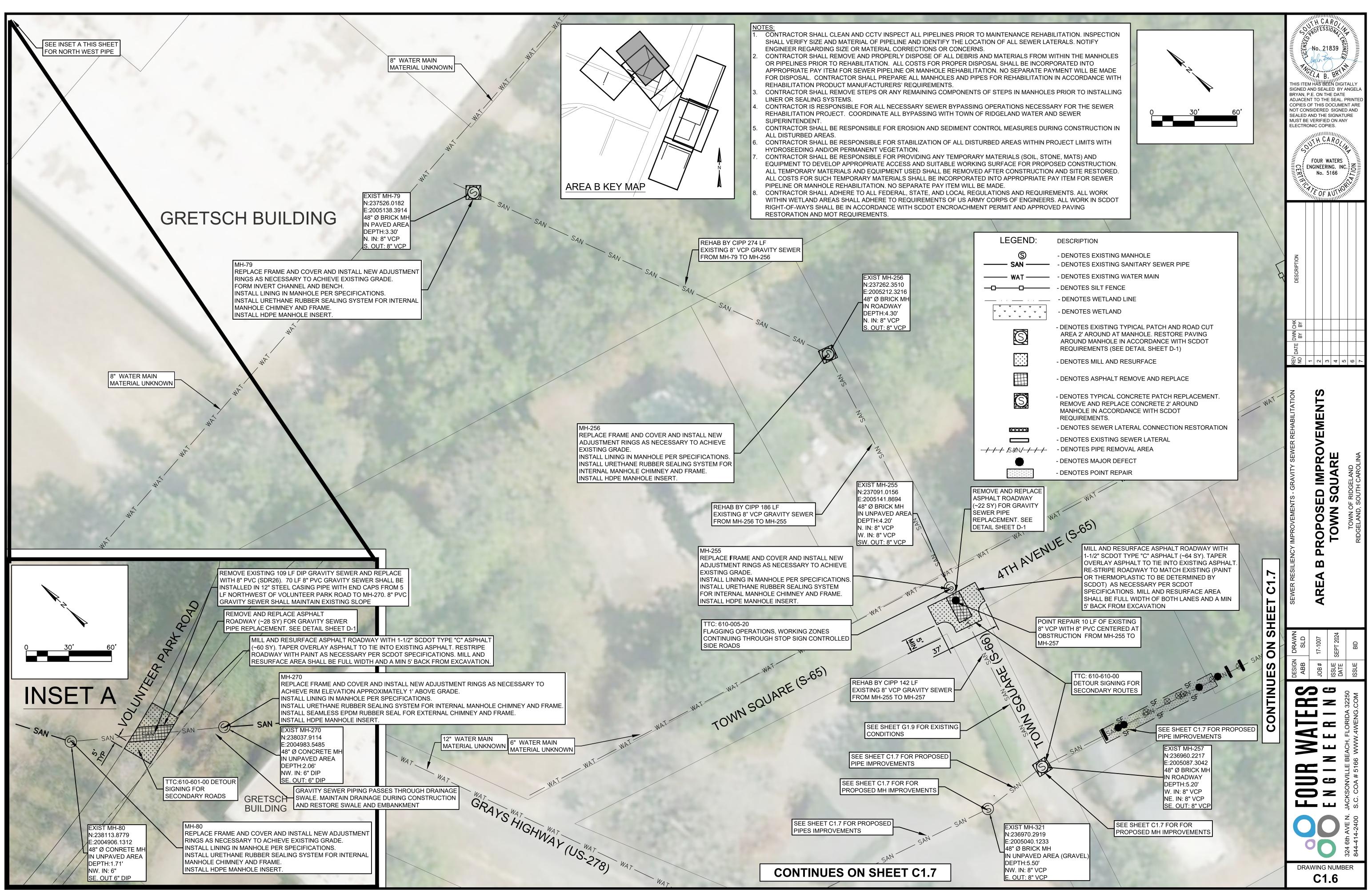
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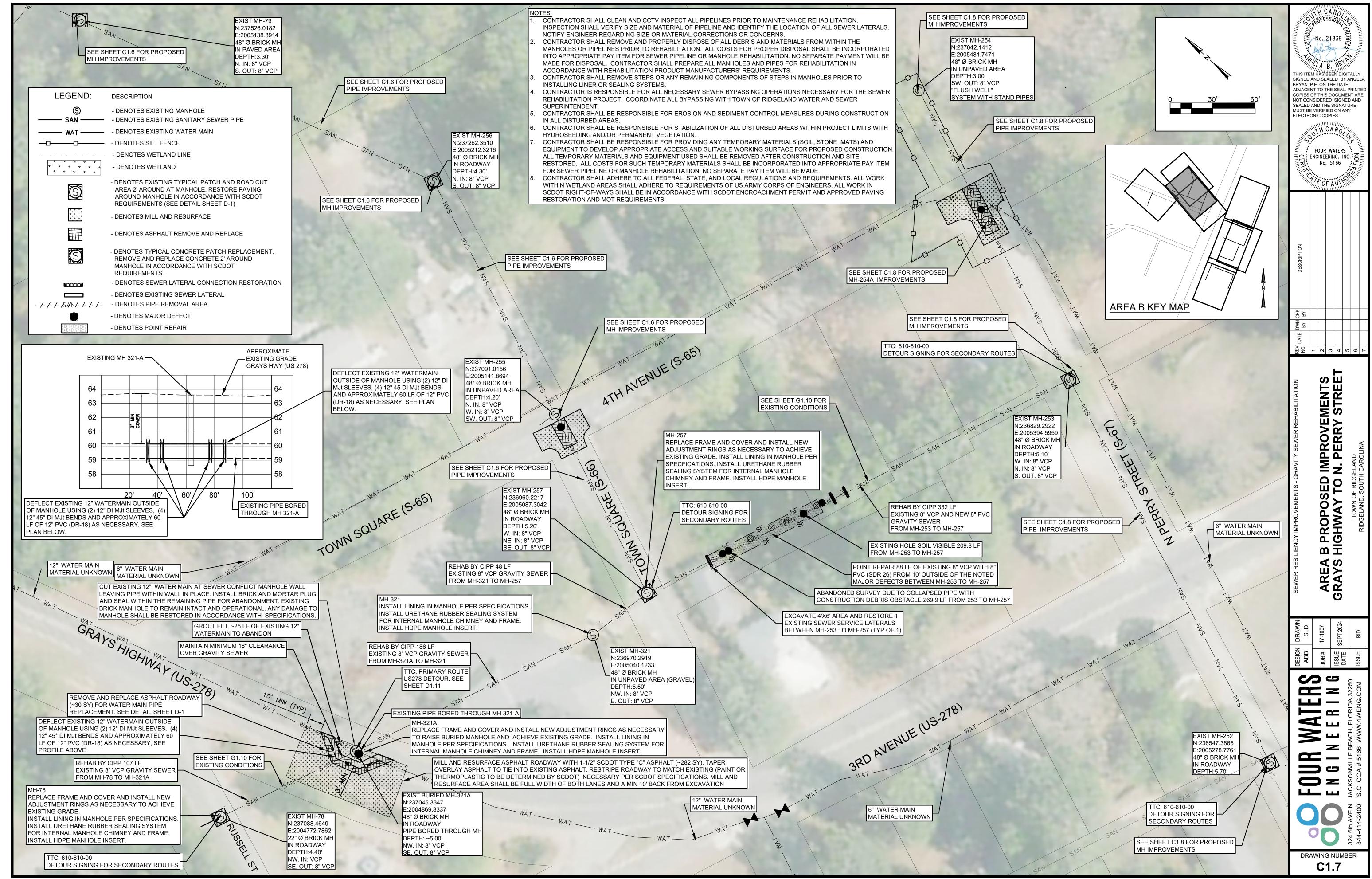
PLOT DATE AND TIME: 10/1/2024 1:30:01 PM



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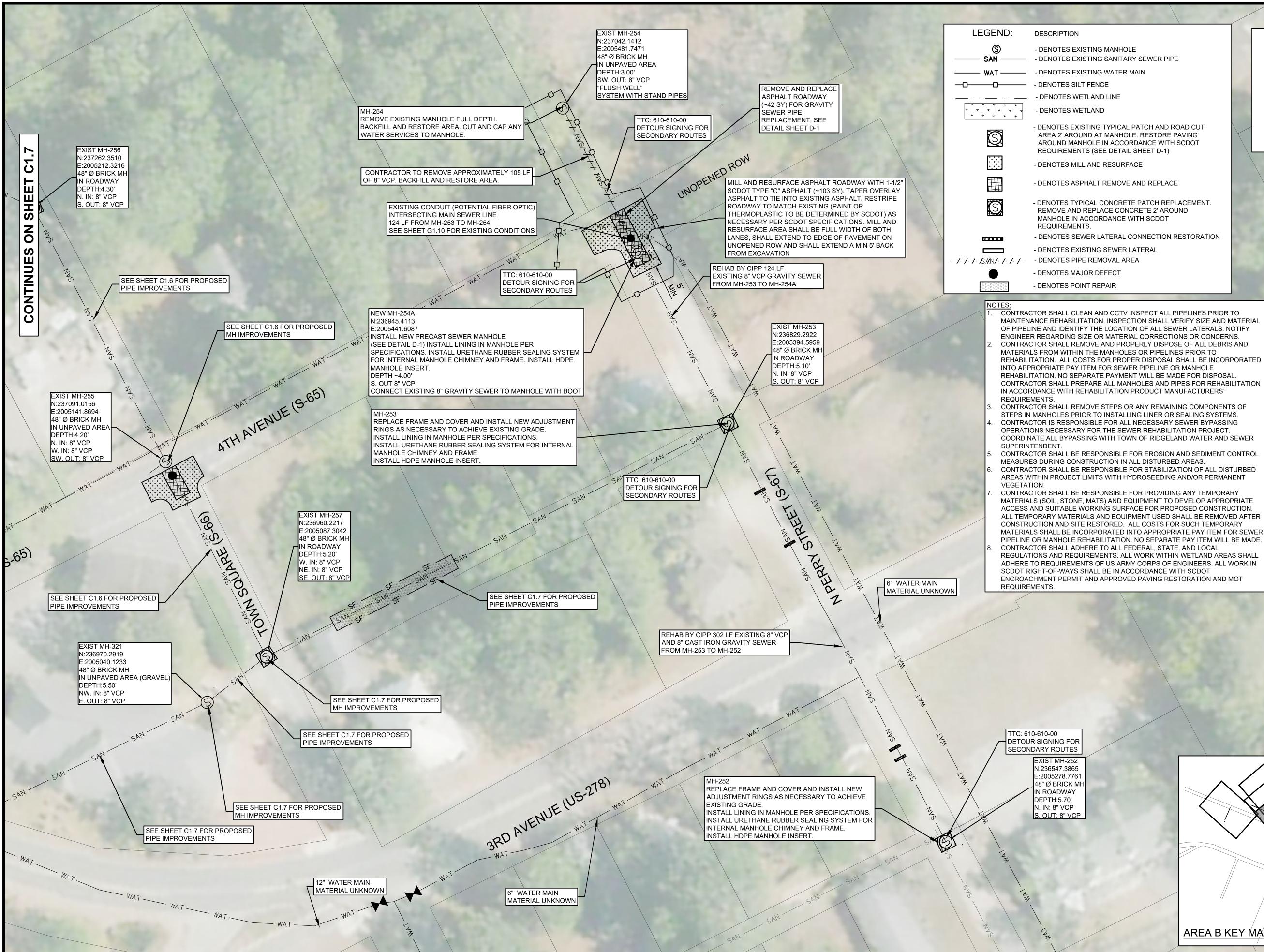
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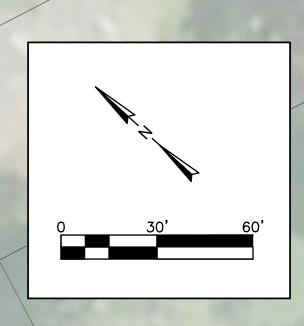
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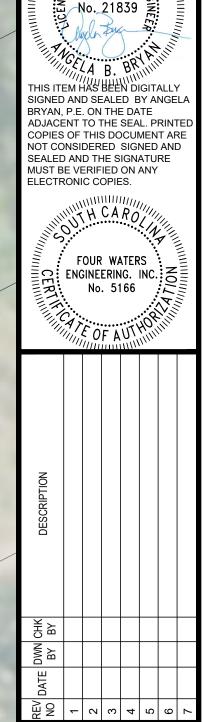


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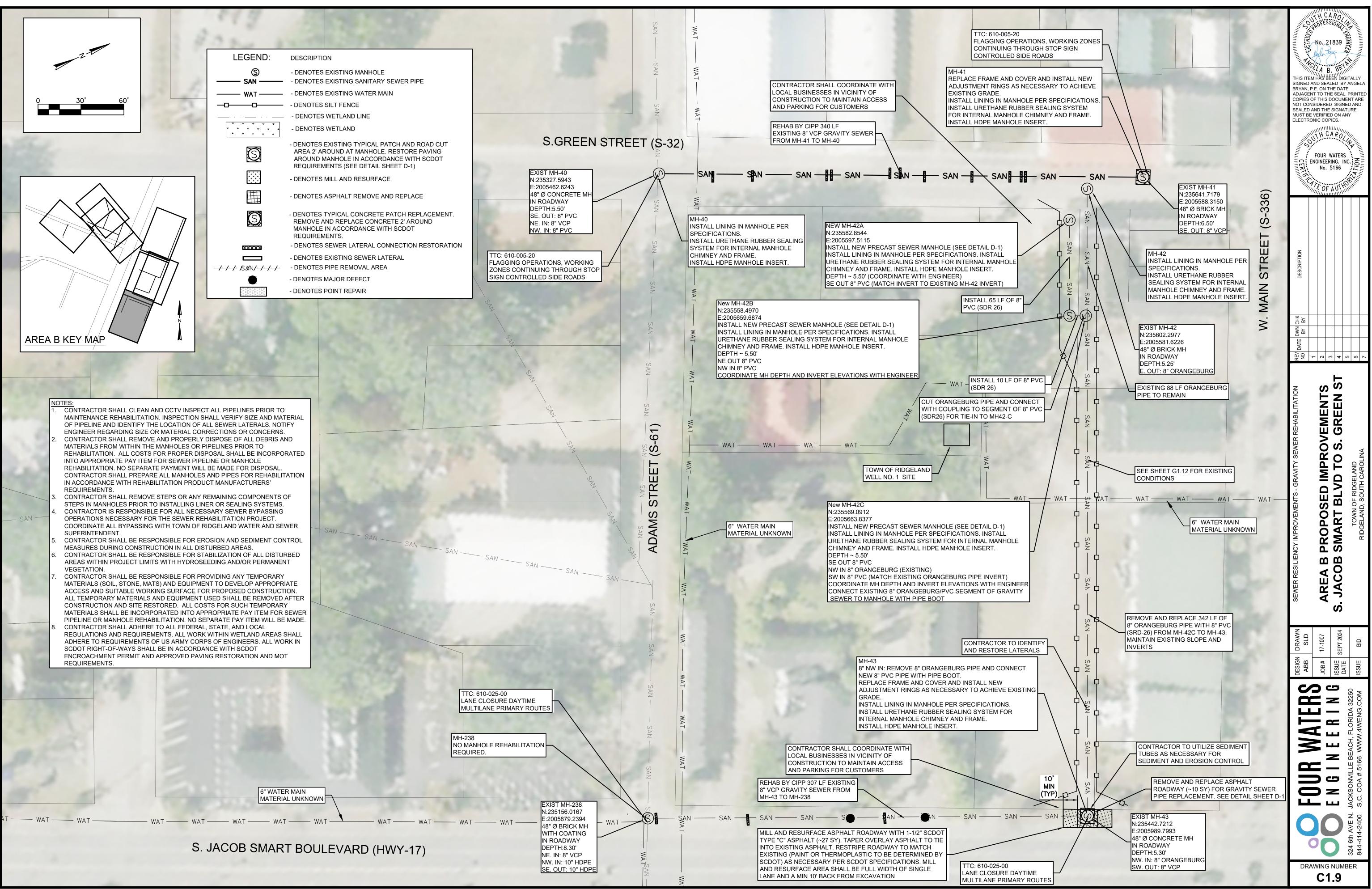
AREA B KEY MAP

RAILROAD TRACKS

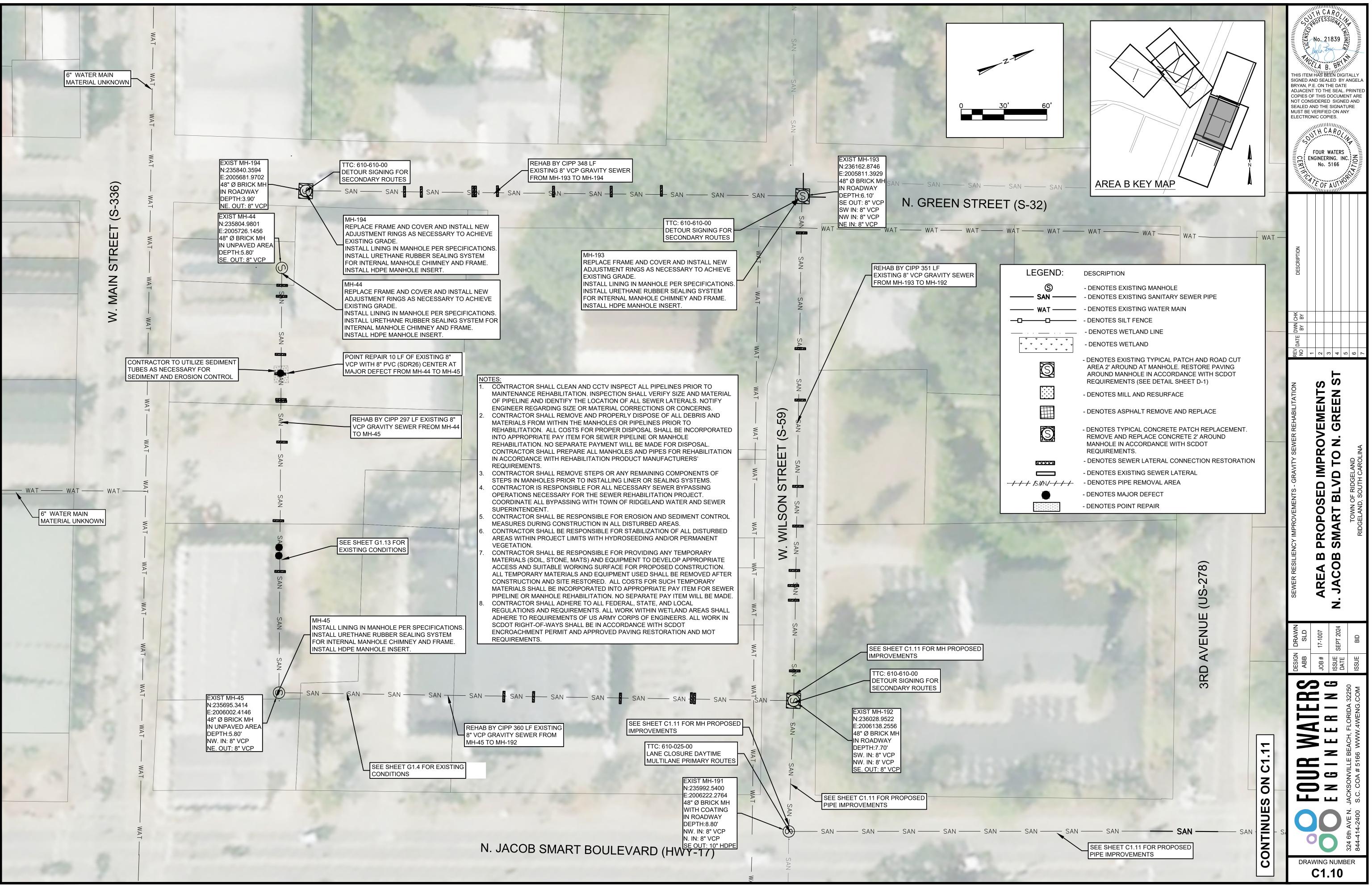


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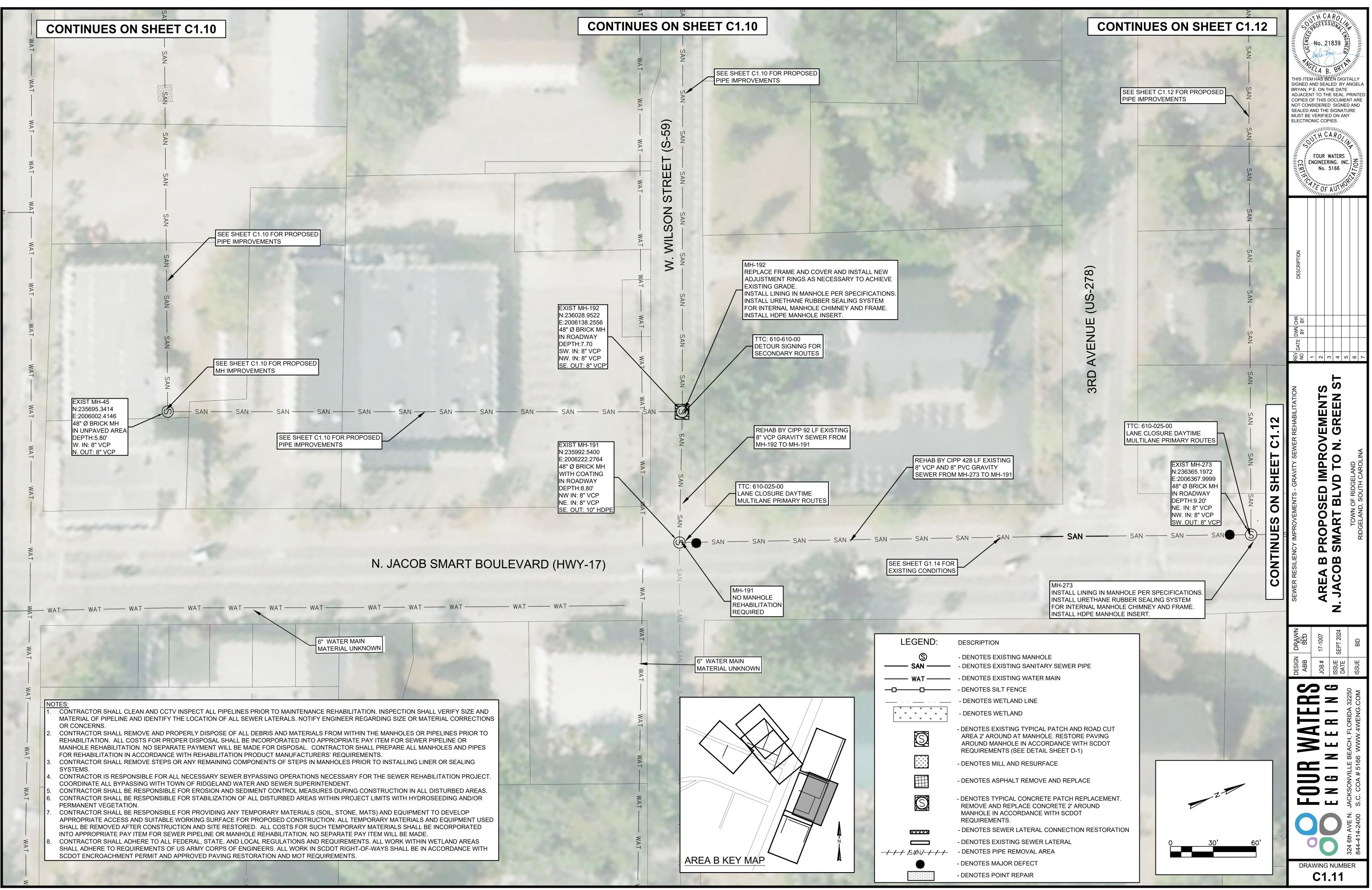


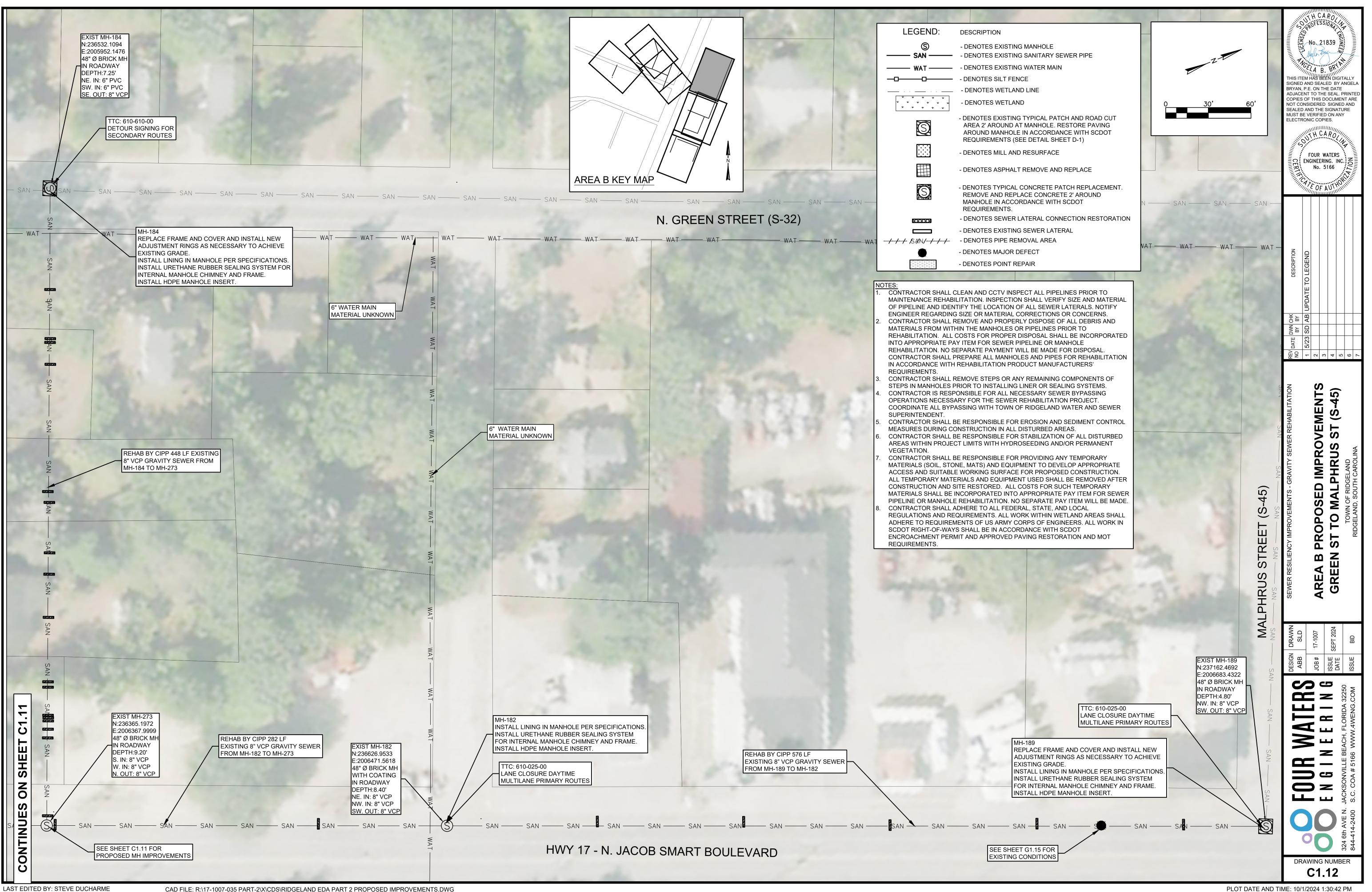
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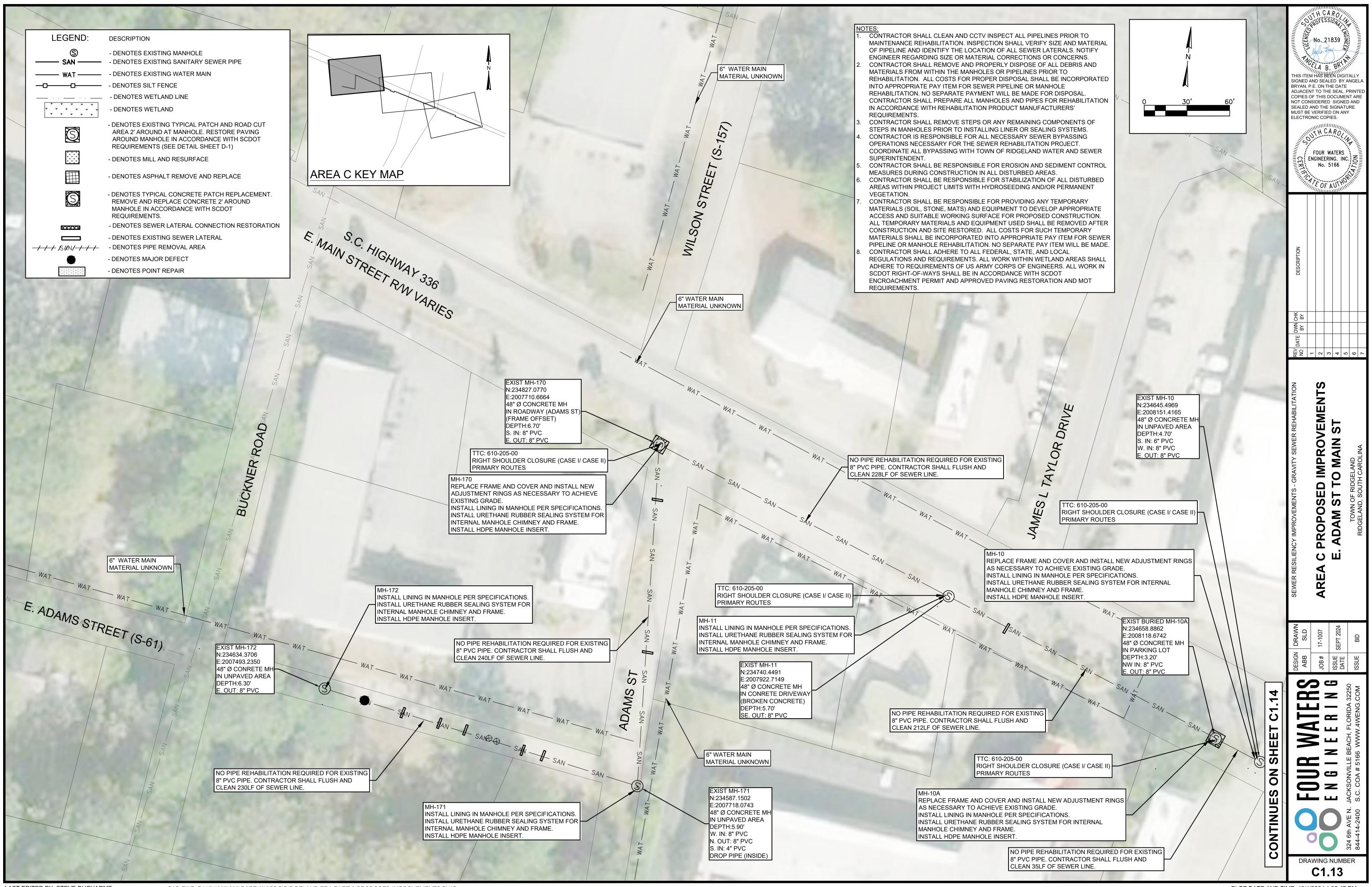


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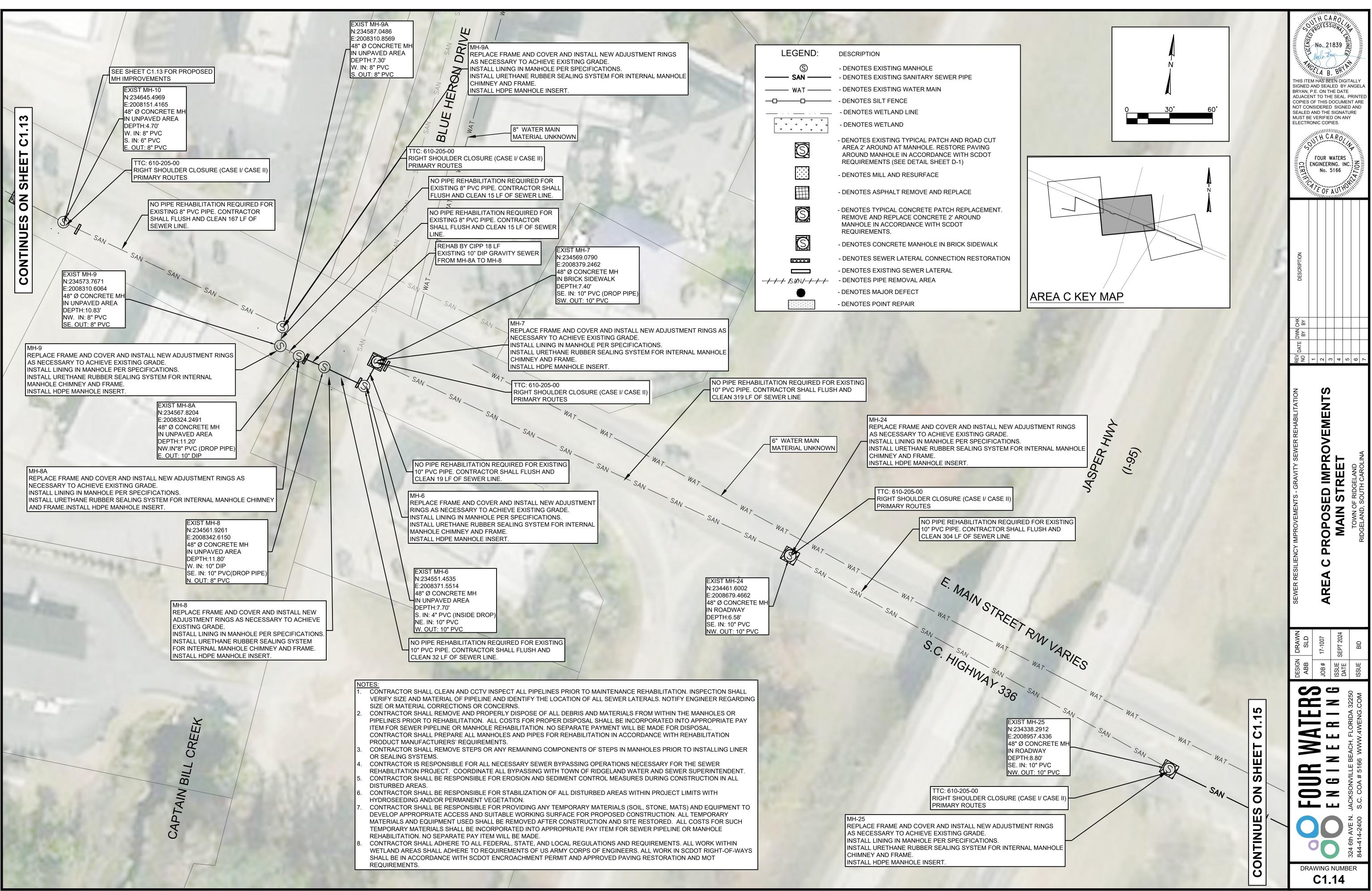






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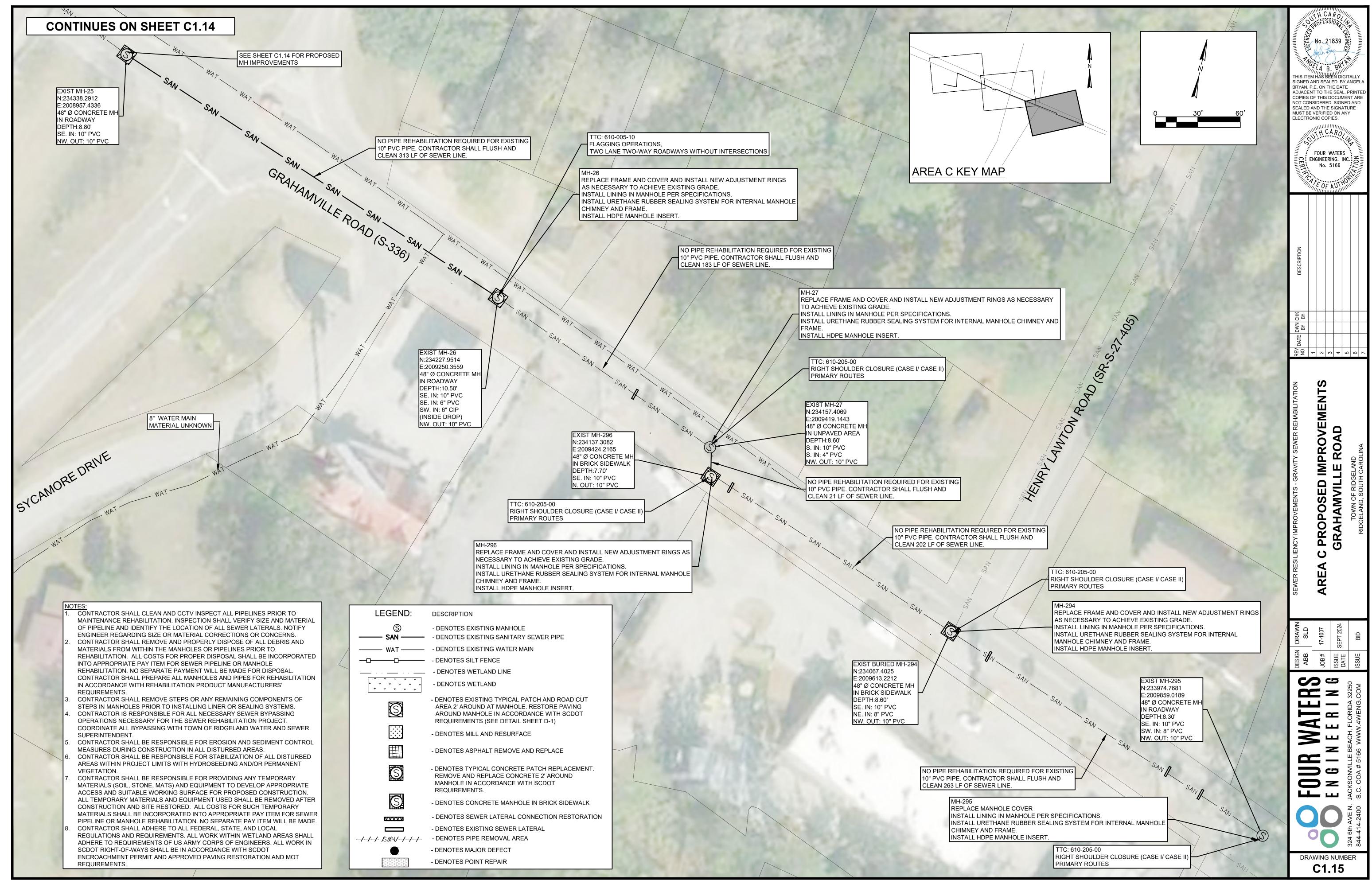
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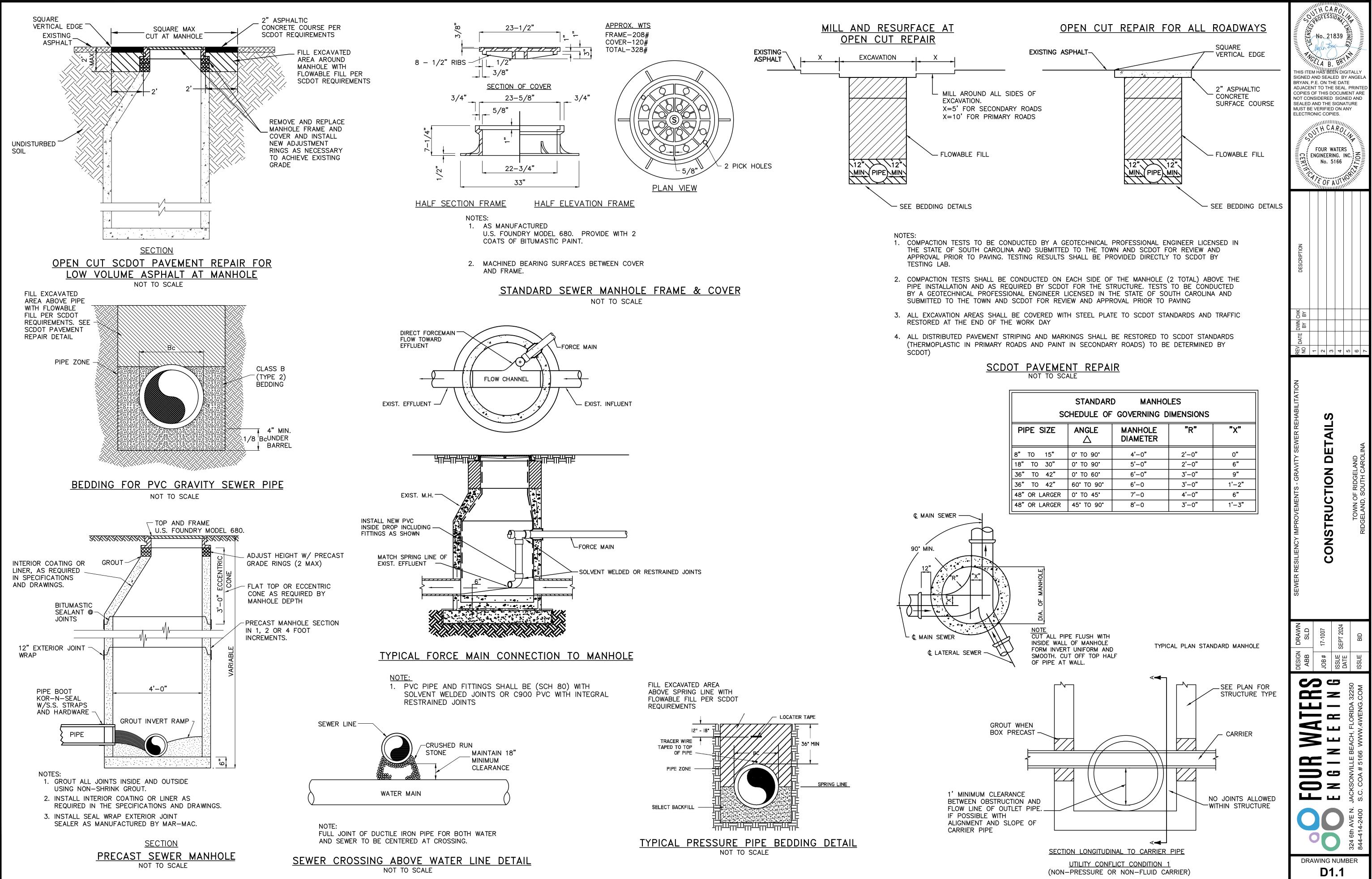
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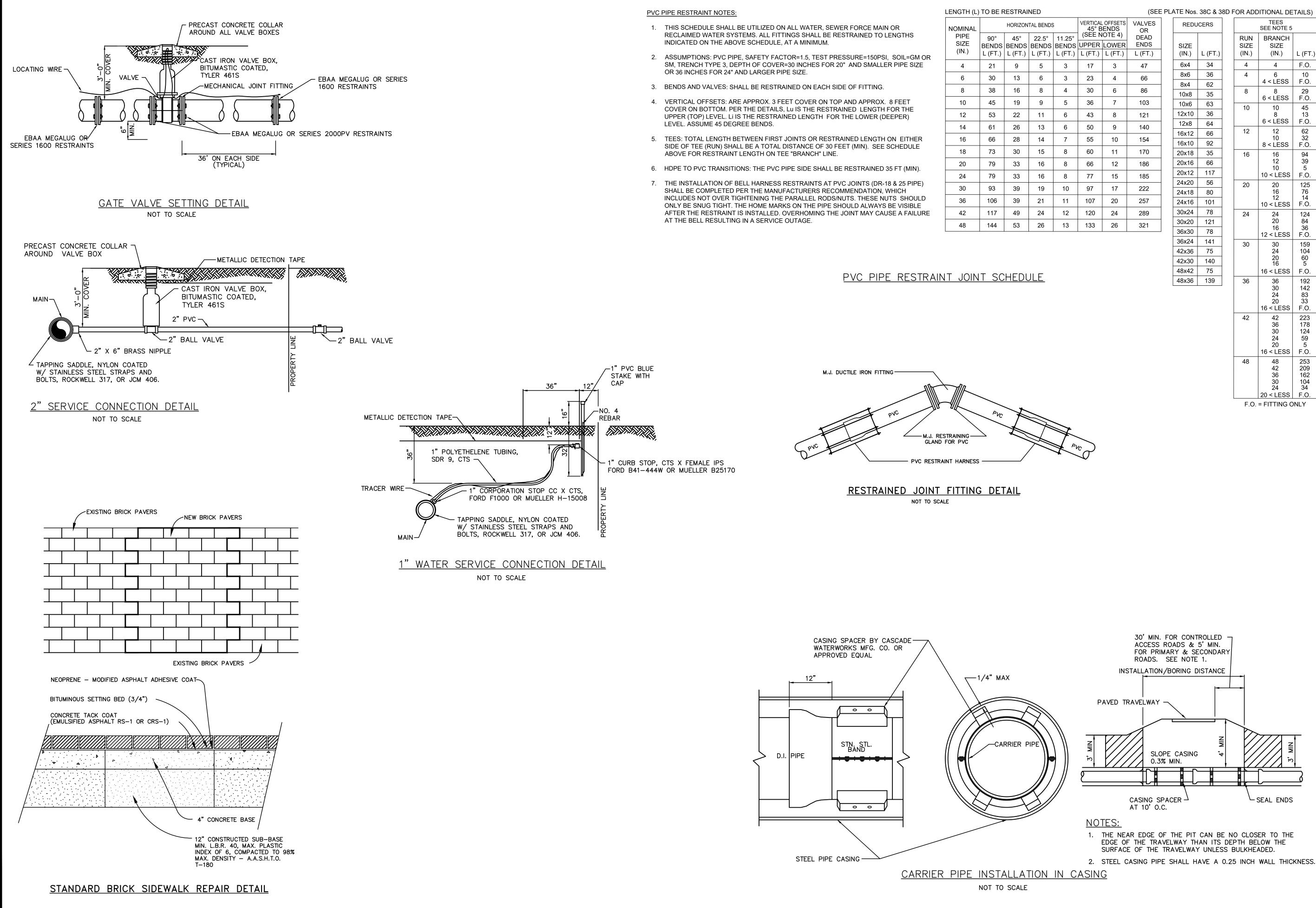
PLOT DATE AND TIME: 10/1/2024 1:30:56 PM





SCHEDULE OF GOVERNING DIMENSIONS				
PIPE SIZE		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"

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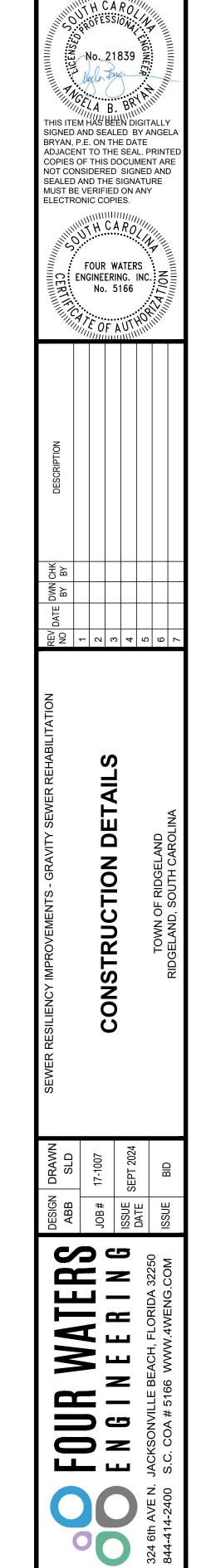
	LENGTH (L) TO BE RESTRAINED					
NOMINAL		HORIZONTAL BENDS				
	PIPE SIZE (IN.)	90° BENDS L (FT.)	45° BENDS L (FT.)	22.5° BENDS L (FT.)	E	
	4	21	9	5		
	6	30	13	6		
	8	38	16	8		
	10	45	19	9		
	12	53	22	11		
	14	61	26	13		
	16	66	28	14		
	18	73	30	15		
	20	79	33	16		
	24	79	33	16		
	30	93	39	19		
	36	106	39	21		
	42	117	49	24		
	48	144	53	26		

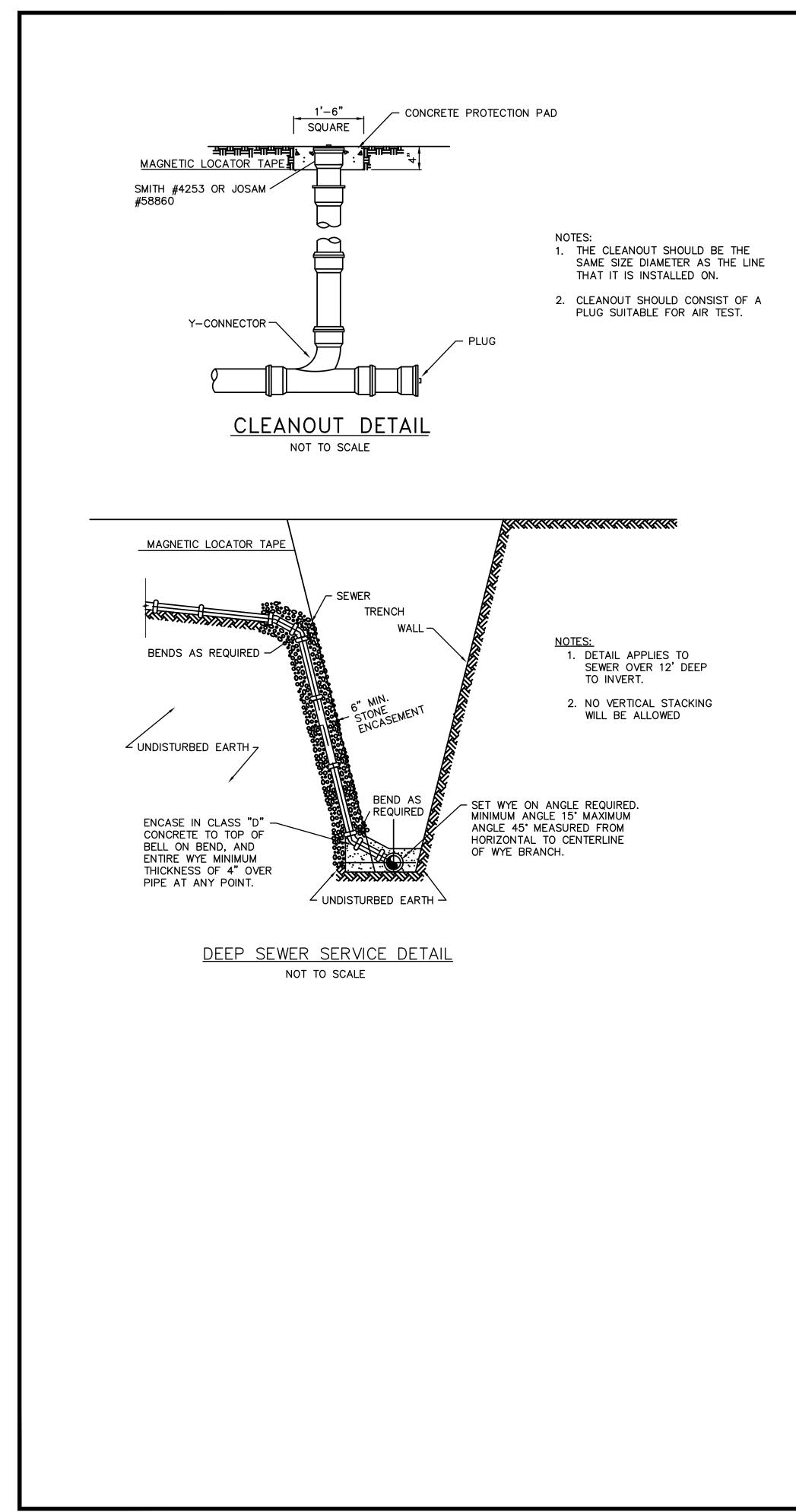
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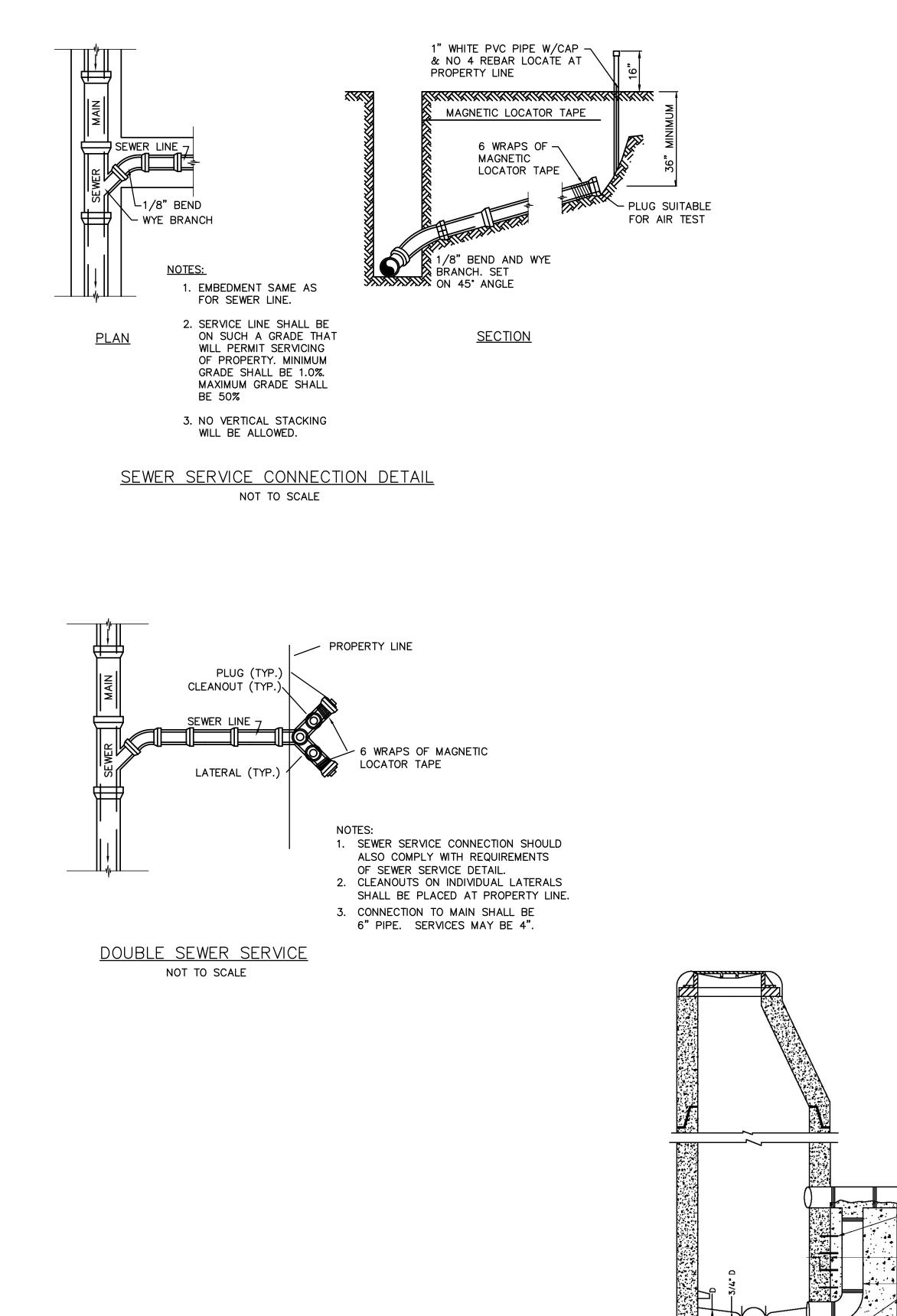
DRAWING NUMBER D1.2

2. STEEL CASING PIPE SHALL HAVE A 0.25 INCH WALL THICKNESS.

EDU	ICERS		TEES SEE NO
E .)	L (FT.)	RUN SIZE (IN.)	BRAN SIZI (IN.
4	34	4	4
3	36	4	6
4	62		4 < LE
8	35	8	8 6 < LE
6	63	10	10
10	36		8
8	64		6 < LE
12	66	12	12 10
10	92		8 < LE
18	35	16	16
16	66		12 10
12	117		10 < LE
20	56	20	20
18	80		16 12
16	101		10 < LE
24	78	24	24
20	121		20 16
30	78		12 < LE
24	141	30	30
36	75		24
30	140		20 16
12	75		16 < LE
36	139	36	36 30 24 20 16 < LE
		42	42 36 30 24 20 16 < LE
		48	48 42 36 30 24 20 < LE
		– –	

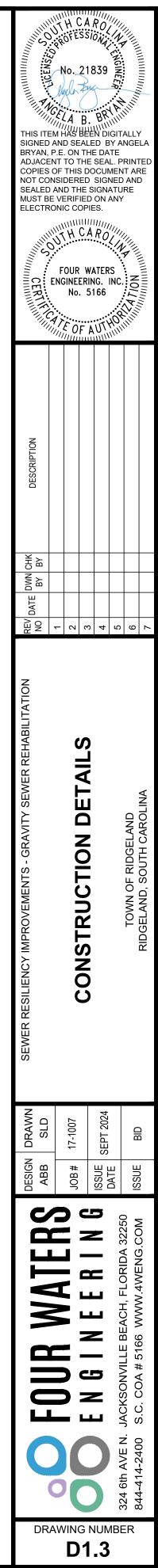


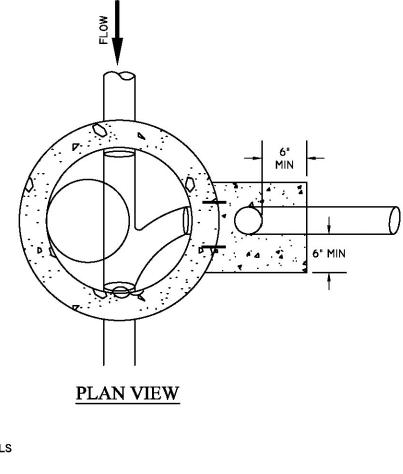


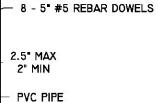


SECTION VIEW

DROP MANHOLE







- PVC PIPE - 3,000 PSI CONCRETE

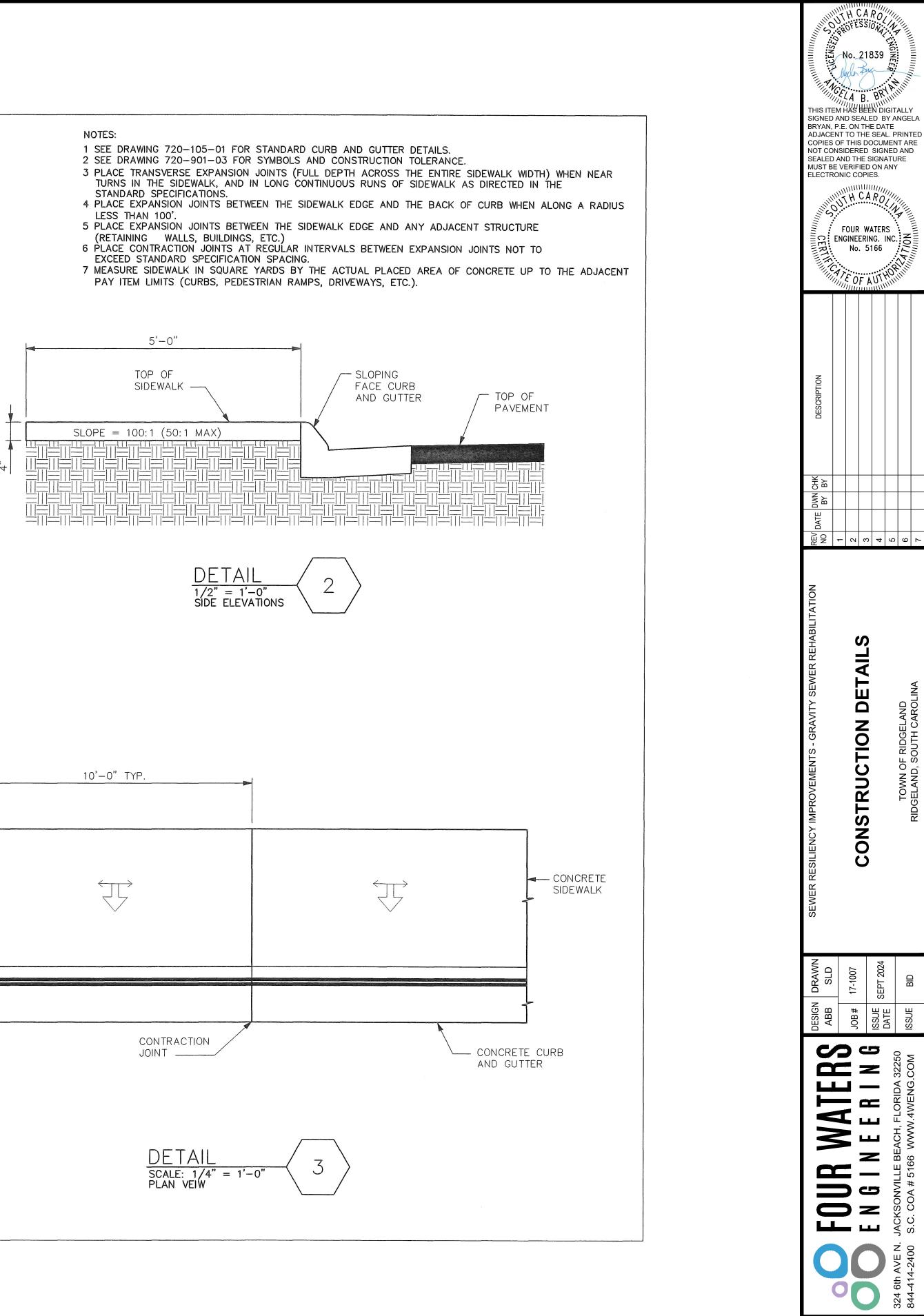
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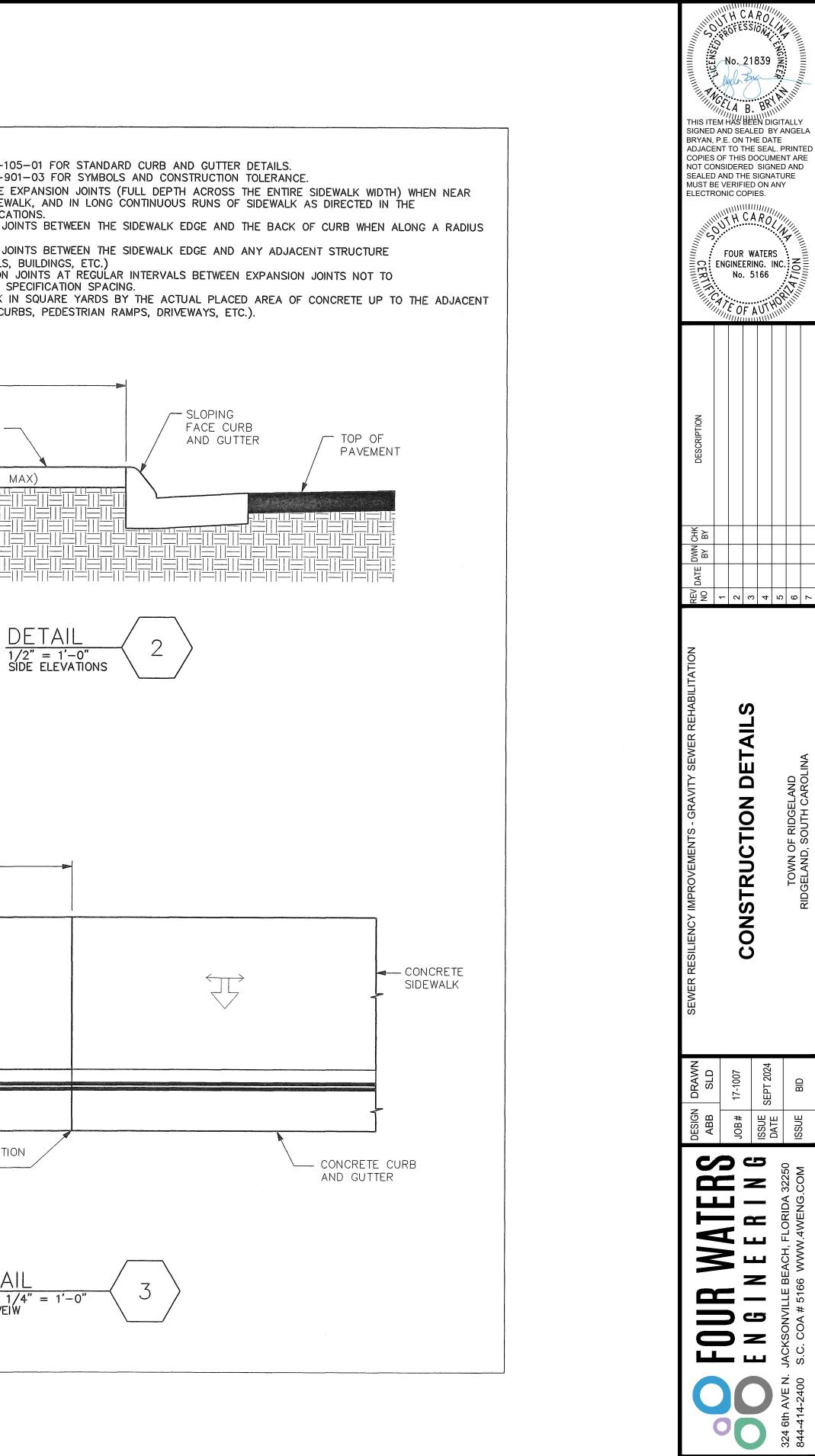
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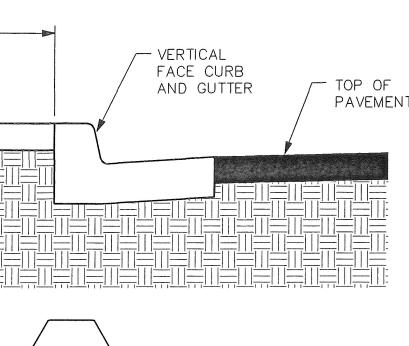
REFERENCES NATIONAL DOCUMENTS ___ SCDOT DOCUMENTS ____ RELATED DRAWINGS & KEYWORDS ____ 5'-0" TOP OF SIDEWALK -THIS DRAWING IS ONLY VALID FOR CONSTRUCTION WHEN SEALED AND SIGNED BY A PROFESSIONAL SLOPE = 100:1 (50:1 MAX)ENGINEER REGISTERED IN THE STATE OF SOUTH CAROLINA. CHECK WWW.SCDOT.ORG FOR LATEST UPDATE. mmmmm REGISTER ENG DETAIL NO. 21242 1/2" = 1'-0"SIDE ELEVATIONS 11111111111 mes W. Keng ____ 6 ___ ___ ____ ------____ ------_____ ____ ____ ____ ____ ____ ____ NEW DRAWING 0 1/2016 DSO DESCRIPTION # DATE CHK SOUTH CAROLINA DEPARTMENT OF TRANSPORTATIO DESIGN STANDARDS OFFICE 955 PARK STREET ROOM 405 COLUMBIA, SC 29201 STANDARD DRAWING SIDEWALK ADJACENT TO CURB DETAIL ISOMETRIC VEIW 720-150-00 EFFECTIVE LETTING DATE JAN., 2016

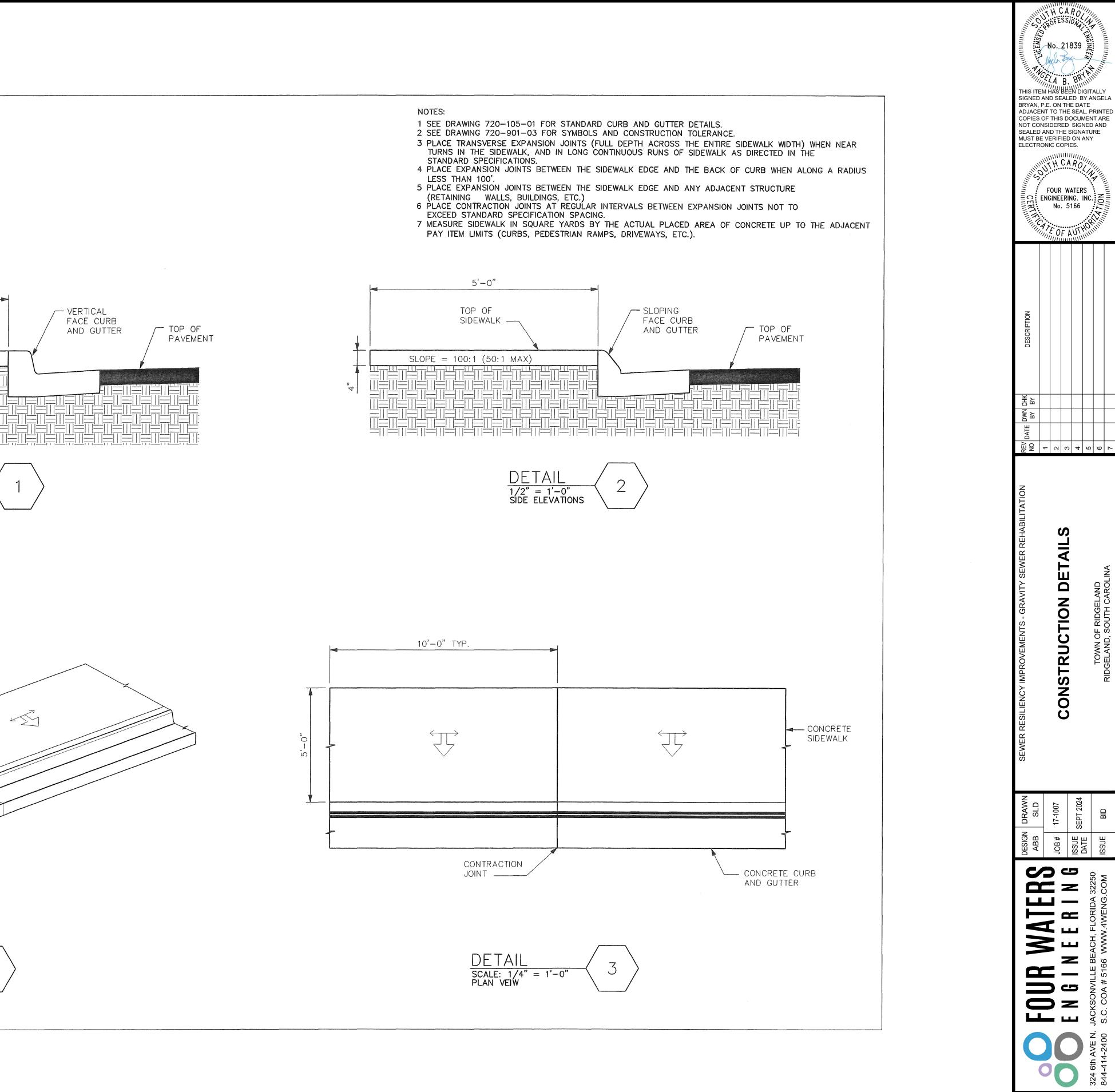


- STANDARD SPECIFICATIONS.
- LESS THAN 100',
- (RETAINING WALLS, BUILDINGS, ETC.)
- EXCEED STANDARD SPECIFICATION SPACING.

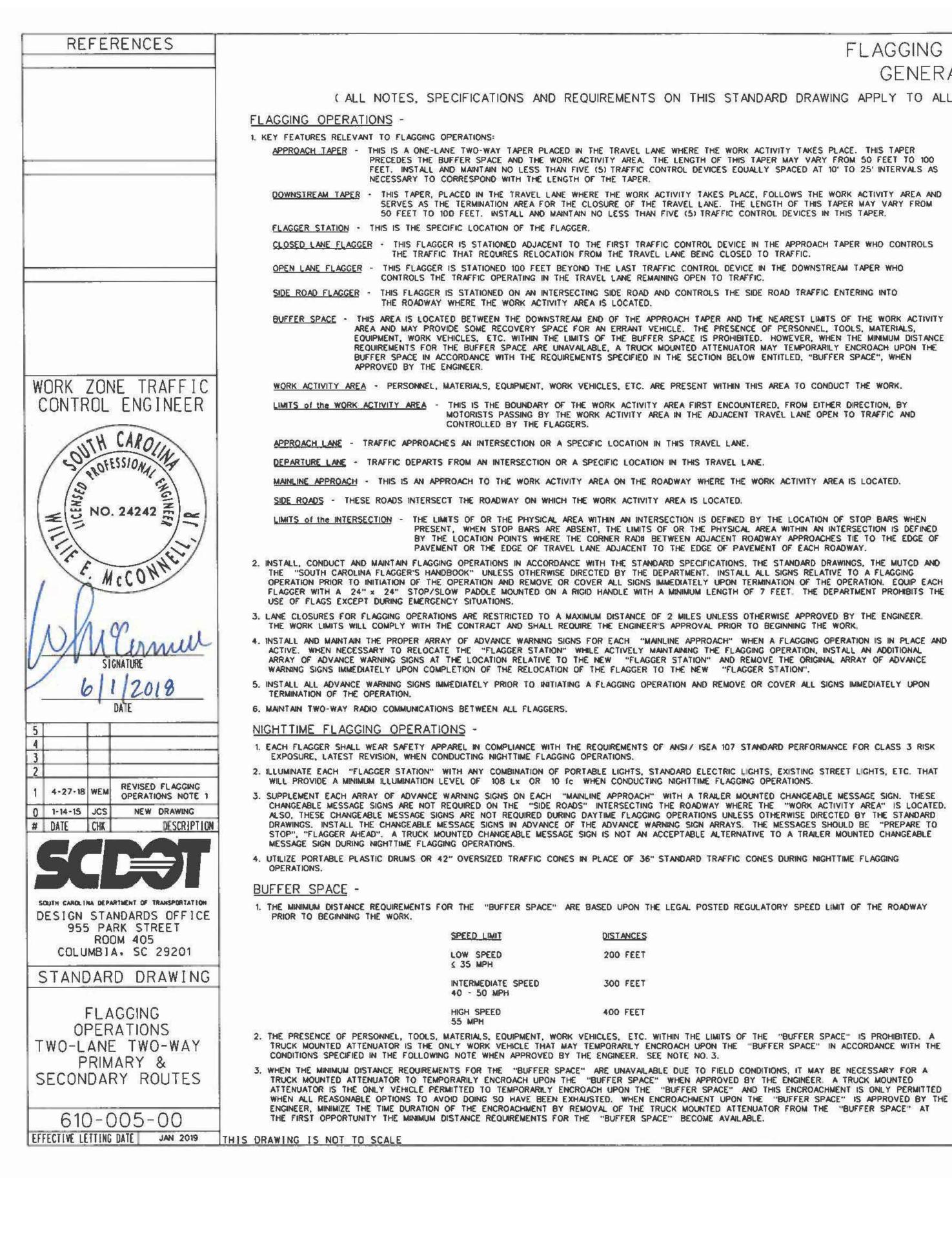








DRAWING NUMBER D1.4



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

SIGNS AND TRAFFIC CONTROL DEVICES -

- MOTORISTS PASSING BY THE WORK ACTIVITY AREA IN THE ADJACENT TRAVEL LANE OPEN TO TRAFFIC AND
- 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

- 1. MEASURE THE ADVANCE WARNING SIGN LOCATIONS FOR EACH APPROACH FROM THE "FLAGGER STATION" LOCATED ON THAT APPROACH. 2. 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.
- 3. 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.
- 4. 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.
- 5. 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.
- 6. 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.scdol.org .
- 7. 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 IN OR GREATER FLEXIBLE MICROPRISMATIC RETROREFLECTIVE SHEETING UNLESS OTHERWISE DIRECTED BY THE DEPARTMENT.
- 8. DELINEATE THE TANGENT AREA OF THE LANE CLOSURE WITH THE NECESSARY TRAFFIC CONTROL DEVICES TO MINIMIZE ENCROACHMENT 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 -
- 1. 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.
- 2. 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 -

- 1. 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.
- 2. WHEN UTILIZING A TRUCK MOUNTED ATTENUATOR, ENSURE THE TRUCK HAS THE CORRECT GROSS VEHICULAR WEIGHT (GVM) 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 GVM 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 PINTLE HOOK / HITCH, REQUIRES A TRUCK WITH A MINIMUM GVM 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.
- 3. LOCATE THE TRUCK MOUNTED ATTENUATOR APPROXIMATELY 100 FEET IN ADVANCE OF THE "WORK ACTIVITY AREA" UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- 4. PROVIDE, INSTALL AND MAINTAIN THE TRUCK MOUNTED ATTENUATOR AS SPECIFIED BY THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER.

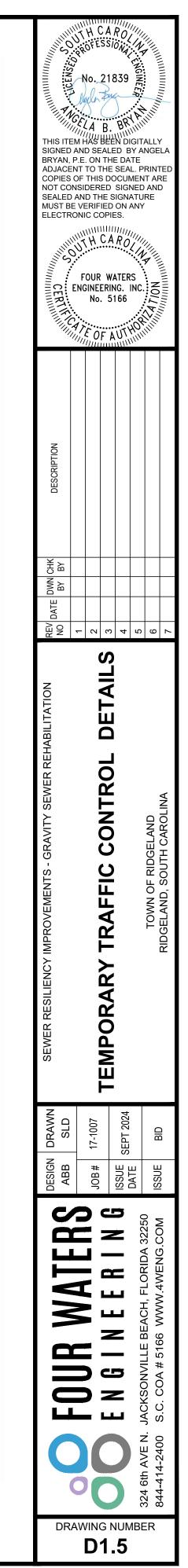
GENERAL -

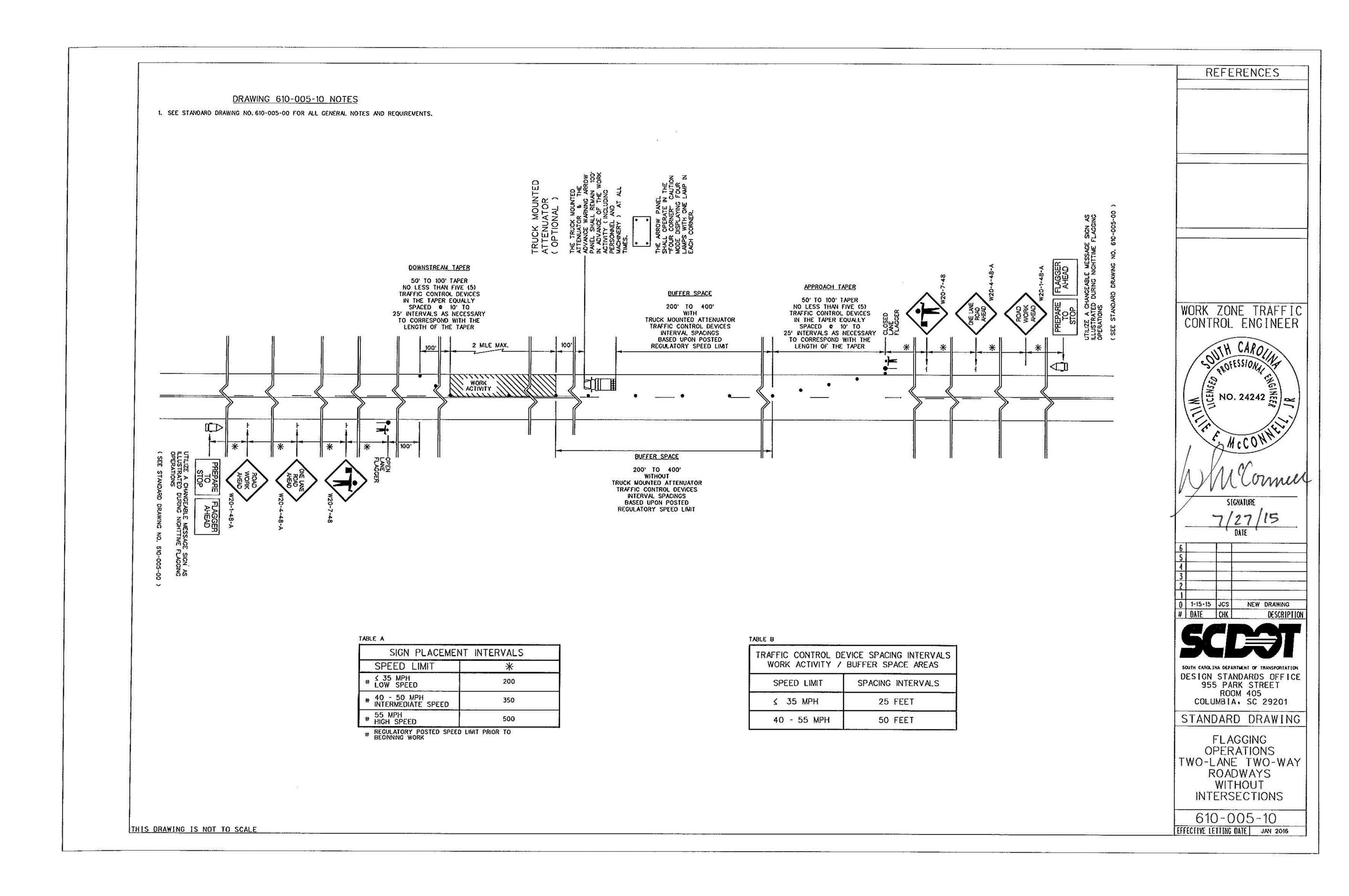
- 1. CONDUCT THE WORK IN SUCH A MANNER SO AS NOT TO ENCROACH ONTO THE ADJACENT TRAVEL LANE OPEN TO TRAFFIC. INSTALL, MAINTAIN AND ADJUST THE TRAFFIC CONTROL DEVICES AS NECESSARY TO ENSURE PROPER DELINEATION OF THE WORK AREA.
- 2. IF WORK IS BEING CONDUCTED AT TWO DIFFERENT LOCATIONS AT THE SAME TIME, 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.
- 3. 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.

SIGN PLACEMENT IN	NTERVALS
SPEED LIMIT	*
# 10W SPEED	200
# 40 - 50 MPH INTERMEDIATE SPEED	350
# 55 MPH # HIGH SPEED	500

· · · · · · · · · · · · · · · · · · ·	VICE SPACING INTERVALS BUFFER SPACE AREAS
SPEED LIMIT	SPACING INTERVALS
5 35 MPH	25 FEET
40 - 55 MPH	50 FEET

REGULATORY POSTED SPEED LIMIT PRIOR TO * BEGINNING WORK

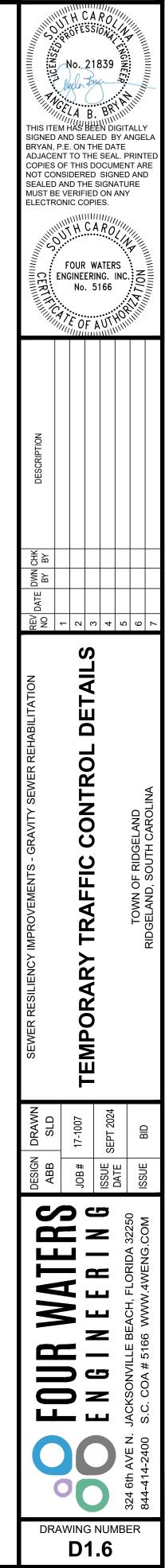


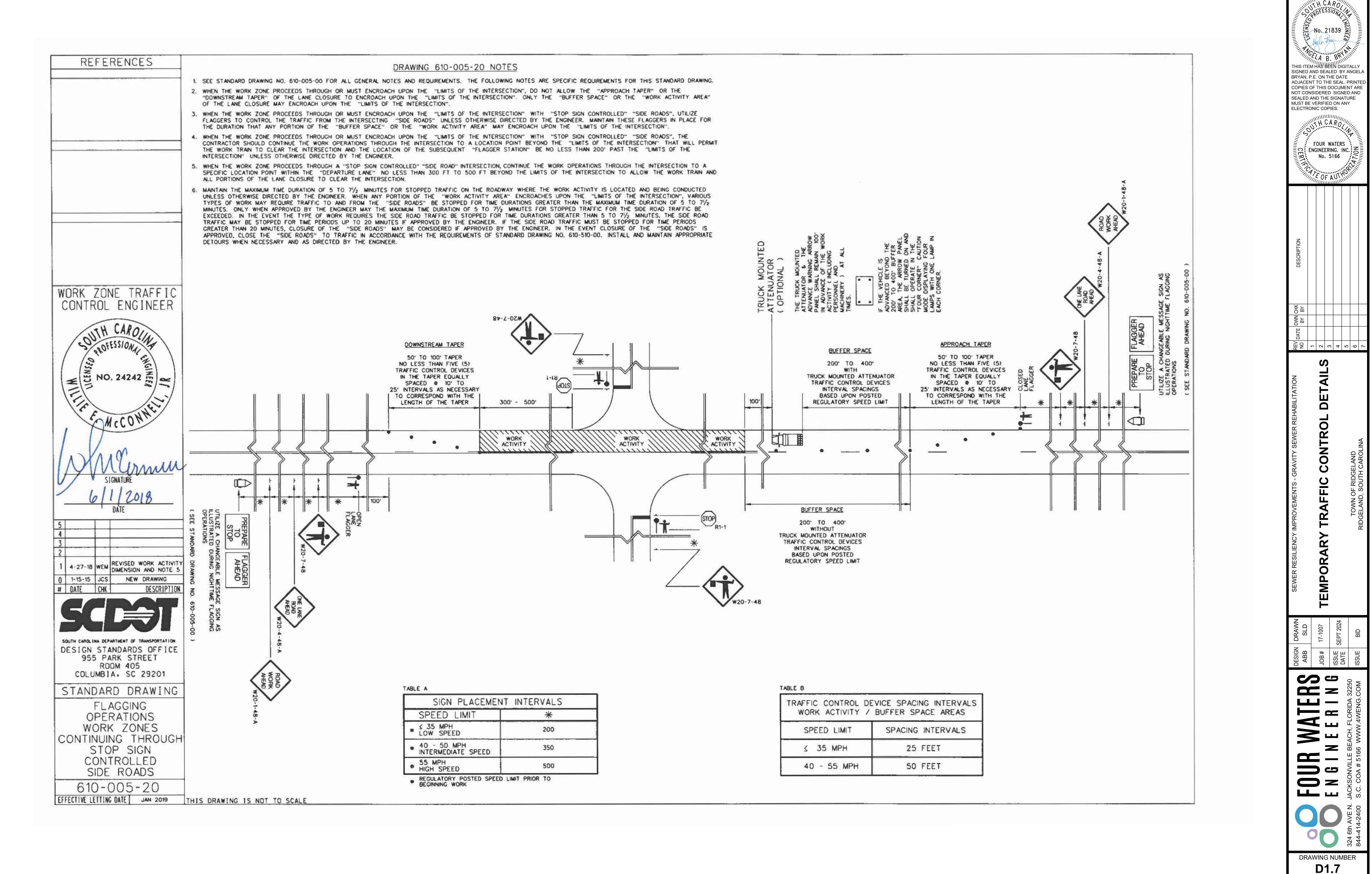


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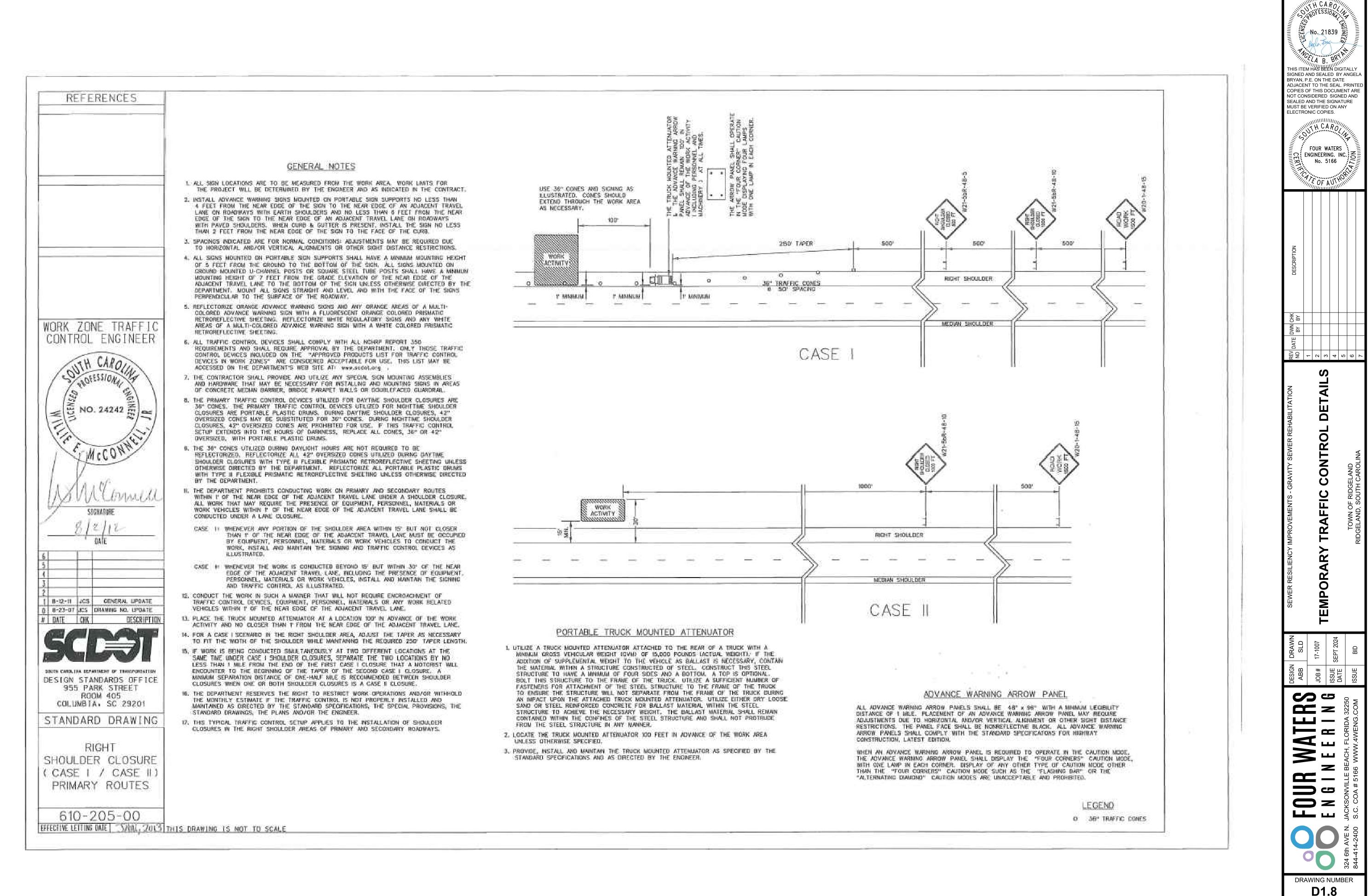
	VICE SPACING INTERVALS BUFFER SPACE AREAS
SPEED LIMIT	SPACING INTERVALS
≤ 35 MPH	25 FEET
40 - 55 MPH	50 FEET

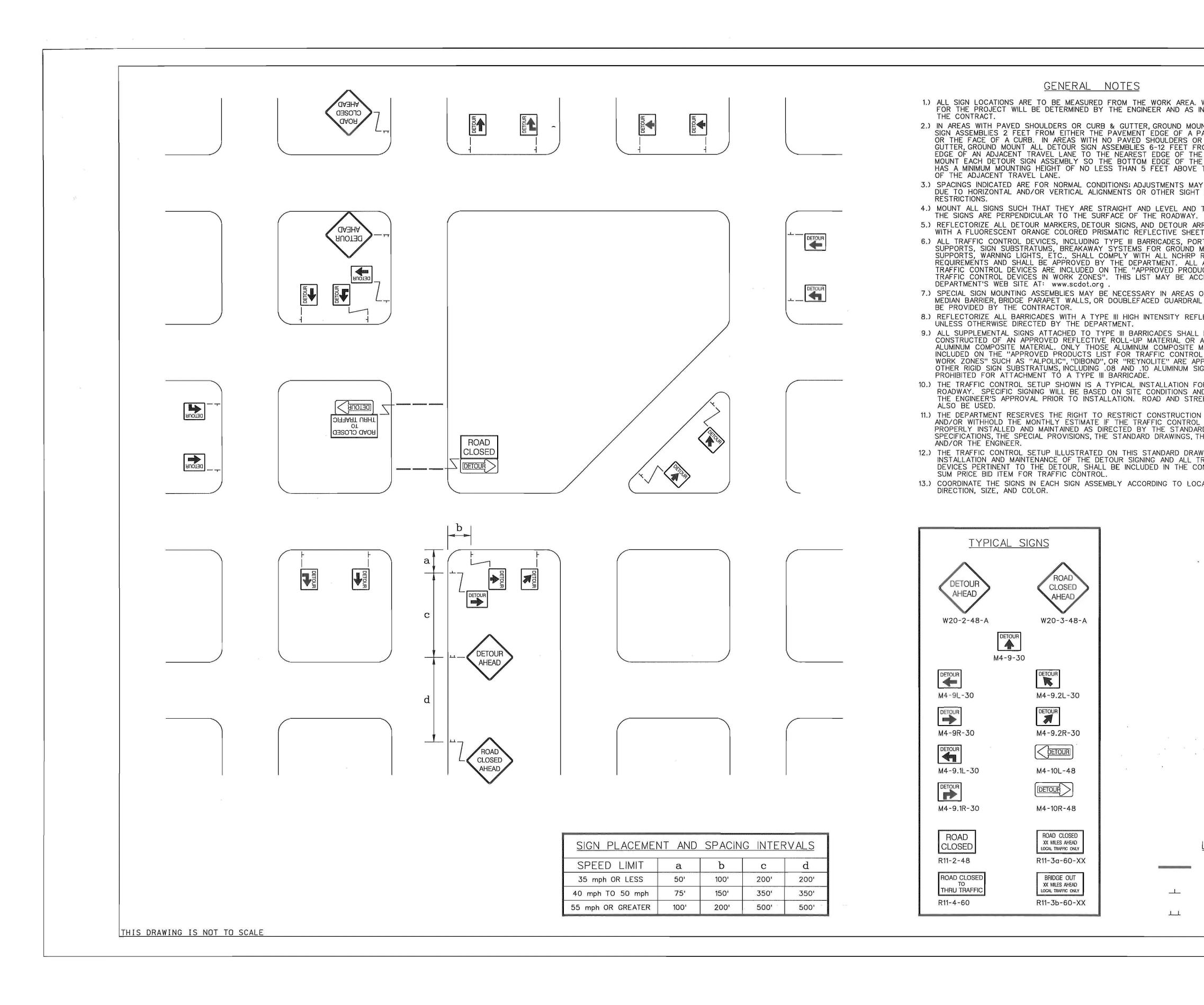




ACEMENT	INTERVALS	TRAFFIC CONTROL D	EVICE SPACING INTERVALS
T	*	WORK ACTIVITY /	BUFFER SPACE AREAS
	200	SPEED LIMIT	SPACING INTERVALS
SPEED	350	≤ 35 MPH	25 FEET
	500	40 - 55 MPH	50 FEET

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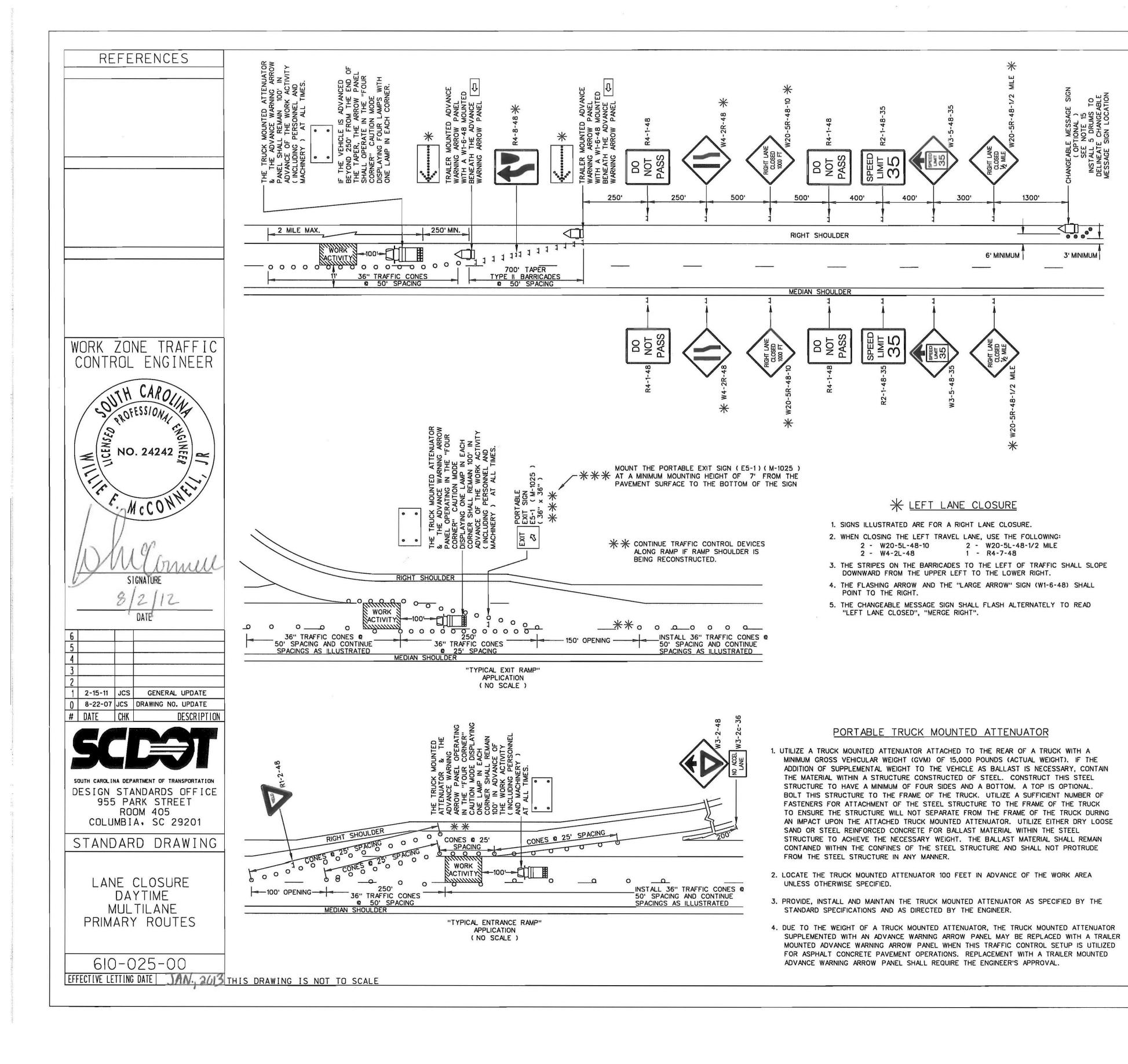




	a	U	U	u
35 mph OR LESS	50'	100'	200'	200'
40 mph TO 50 mph	75'	150'	350'	350'
55 mph OR GREATER	100'	200'	500'	500'

REFERENCES	No. 21839 No. 21839 THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY ANGELA BRYAN, P.E. 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 COPIES.
WORK ZONE TRAFFIC CONTROL ENGINEER	REV NO NODATE BY BY BYDESCRIPTION1234567
ADDRESSIONAL WILLING NO. 24242 WILLING NO. 24242 WILLING NO. 24242 WILLING NO. 24242 WILLING NO. UPDATE B B-30-07 JCS DRAWING NO. UPDATE # DATE CHK DESCRIPTION	SEWER RESILIENCY IMPROVEMENTS - GRAVITY SEWER REHABILITATION TEMPORARY TRAFFIC CONTROL DETAILS DETOUR SIGNING - SECONDARY ROUTES TOWN OF RIDGELAND TOWN OF RIDGELAND
SOUTH CAROL INA DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS OFFICE 955 PARK STREET ROOM 405 COLUMBIA, SC 29201 STANDARD DRAWING DETOUR SIGNING FOR SECONDARY ROUTES	FOUR POUR
	WORK ZONE TRAFFIC CONTROL ENGINEER

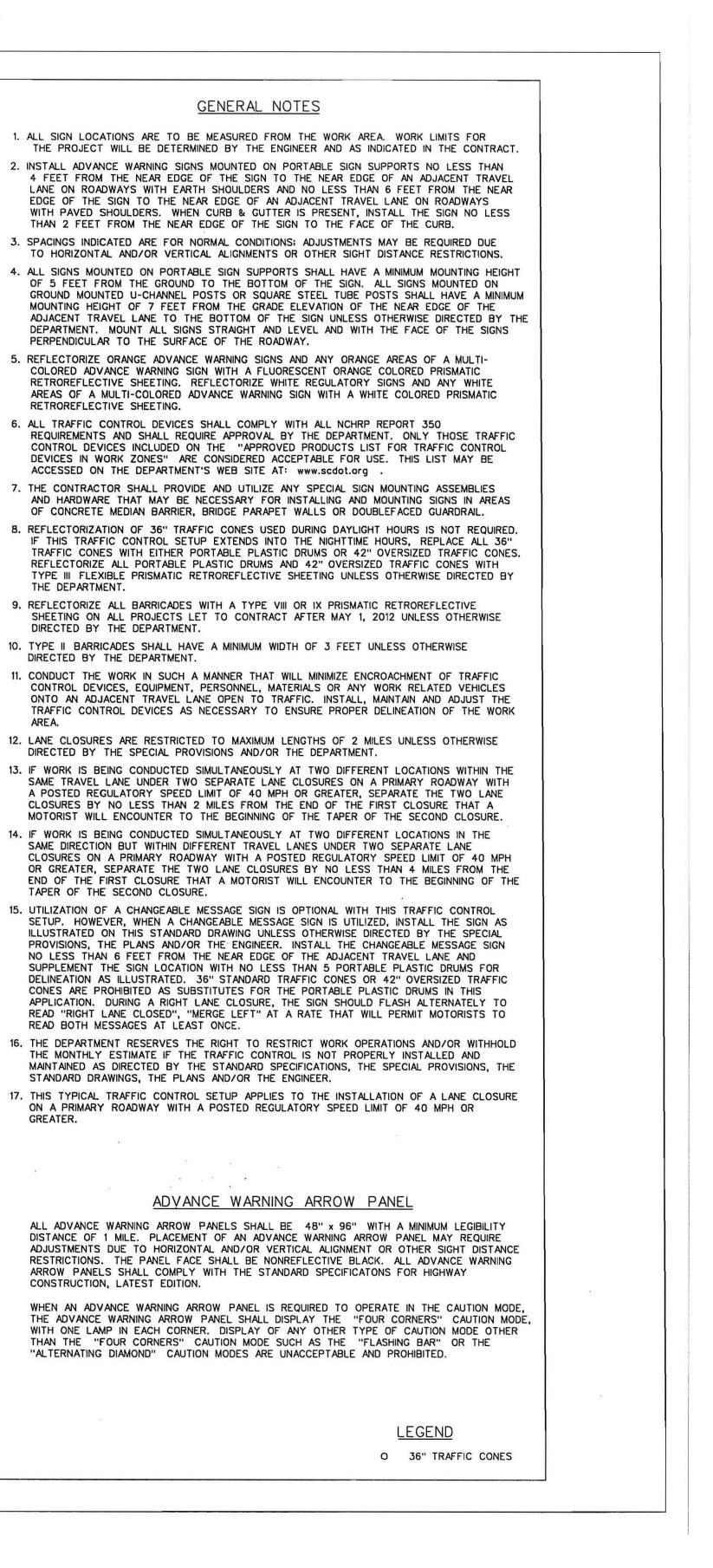
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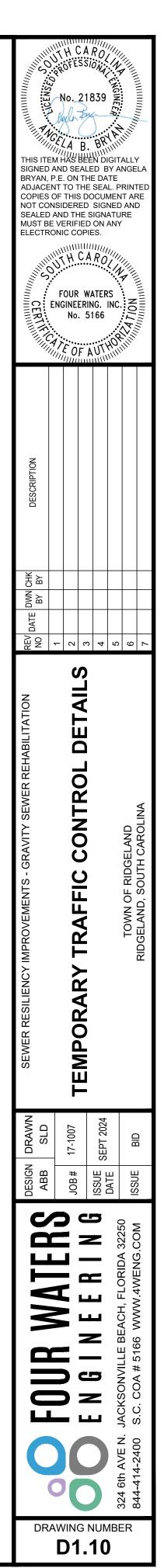


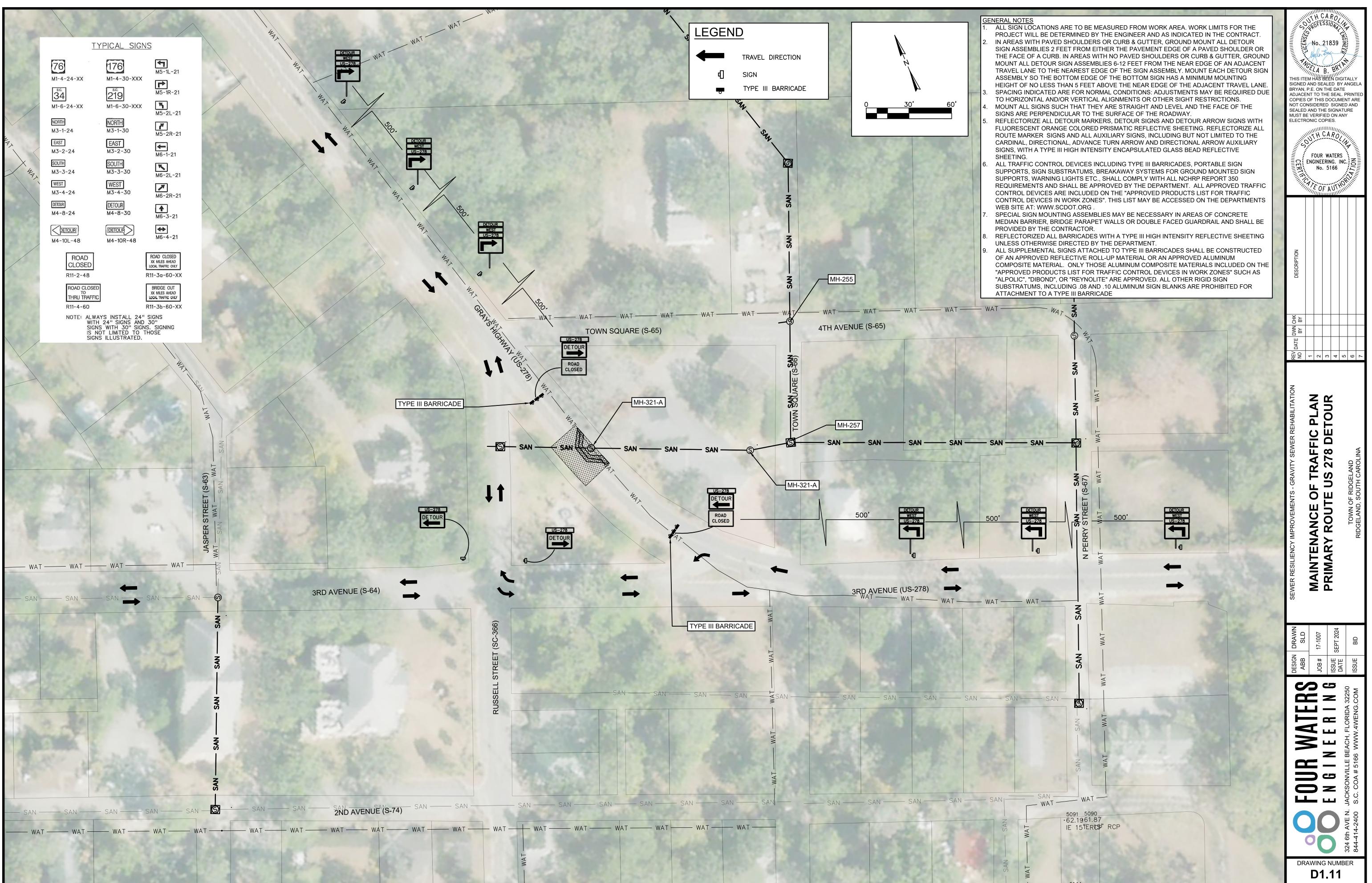
- PERPENDICULAR TO THE SURFACE OF THE ROADWAY.
- RETROREFLECTIVE SHEETING.
- ACCESSED ON THE DEPARTMENT'S WEB SITE AT: www.scdot.org
- THE DEPARTMENT
- DIRECTED BY THE DEPARTMENT.
- DIRECTED BY THE DEPARTMENT.
- AREA.

- TAPER OF THE SECOND CLOSURE.
- READ BOTH MESSAGES AT LEAST ONCE.
- STANDARD DRAWINGS, THE PLANS AND/OR THE ENGINEER.
- GREATER.

CONSTRUCTION, LATEST EDITION.



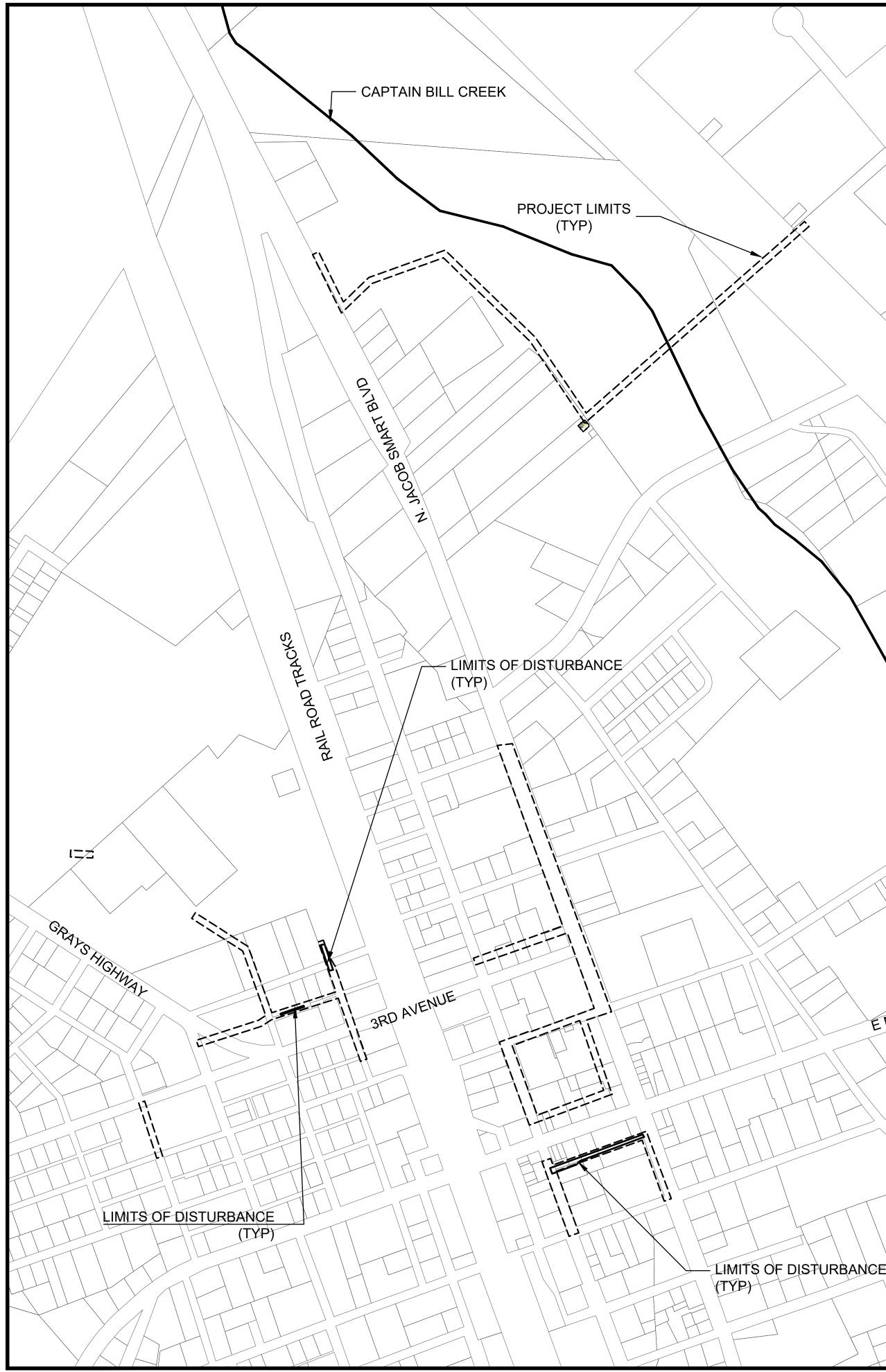




LAST EDITED BY: STEVE DUCHARME

PLOT DATE AND TIME: 10/1/2024 1:32:26 PM

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2. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN FOURTEEN (14) DAYS AFTER WORK HAS CEASED, EXCEPT AS STATED BELOW. • WHERE STABILIZATION BY THE 14TH DAY IS PRECLUDED BY SNOW COVER OR FROZEN GROUND CONDITIONS STABILIZATION MEASURES MUST BE INITIATED AS SOON AS PRACTICABLE. • 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. 3. 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 CORRECT THE BMP WITHIN 48 HOURS OF IDENTIFICATION. 4. PROVIDE SILT FENCE AND/OR OTHER CONTROL DEVICES, AS MAY BE REQUIRED, TO CONTROL SOIL EROSION DURING UTILITY CONSTRUCTION. ALL DISTURBED AREAS SHALL BE CLEANED, GRADED, AND STABILIZED WITH 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. 5. ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED DURING ALL PHASES OF CONSTRUCTION AND/OR OFFSITE SEDIMENTATION. ALL TEMPORARY CONTROL DEVICES SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED. 6. THE CONTRACTOR MUST TAKE NECESSARY ACTION TO MINIMIZE THE TRACKING OF MUD ONTO PAVED ROADWAY(S) FROM CONSTRUCTION AREAS AND THE GENERATION OF DUST. THE CONTRACTOR SHALL DAILY REMOVE MUD/SOIL FROM PAVEMENT, AS MAY BE REQUIRED. 7. RESIDENTIAL SUBDIVISIONS REQUIRE EROSION CONTROL FEATURES FOR INFRASTRUCTURE AS WELL AS FOR INDIVIDUAL LOT CONSTRUCTION. INDIVIDUAL PROPERTY OWNERS SHALL FOLLOW THESE PLANS DURING CONSTRUCTION OR OBTAIN APPROVAL OF AN INDIVIDUAL PLAN IN ACCORDANCE WITH S.C REG. 72-300 ET SEQ. AND SCR100000. 8. TEMPORARY DIVERSION BERMS AND/OR DITCHES WILL BE PROVIDED AS NEEDED DURING CONSTRUCTION TO TRAPS OR STABLE OUTLETS. 9. ALL WATERS OF THE STATE (WOS), INCLUDING WETLANDS, ARE TO BE FLAGGED OR OTHERWISE CLEARLY MARKED IN THE FIELD. A DOUBLE ROW OF SILT FENCE IS TO BE INSTALLED IN ALL AREAS WHERE A 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. 10. LITTER, CONSTRUCTION DEBRIS, OILS, FUELS, AND BUILDING PRODUCTS WITH SIGNIFICANT POTENTIAL FOR EXPOSED TO STORM WATER MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE IN STORM WATER DISCHARGES. SITE OR A NEARBY LOCATION EASILY ACCESSIBLE DURING NORMAL BUSINESS HOURS, FROM THE DATE OF COMMENCEMENT OF CONSTRUCTION ACTIVITIES TO THE DATE THAT FINAL STABILIZATION IS REACHED. 12. INITIATE STABILIZATION MEASURES ON ANY EXPOSED STEEP SLOPE (3H:1V OR GREATER) WHERE LAND-DISTURBING ACTIVITIES HAVE PERMANENTLY OR TEMPORARILY CEASED, AND WILL NOT RESUME FOR A PERIOD OF 7 CALENDAR DAYS. 13. MINIMIZE SOIL COMPACTION AND, UNLESS INFEASIBLE, PRESERVE TOPSOIL. PROVIDES EQUIVALENT OR BETTER TREATMENT PRIOR TO DISCHARGE; 15. MINIMIZE THE DISCHARGE OF POLLUTANTS FROM DEWATERING OF TRENCHES AND EXCAVATED AREAS. THESE DISCHARGES ARE TO BE ROUTED THROUGH APPROPRIATE BMPS (SEDIMENT BASIN, FILTER BAG, ETC.). 16. THE FOLLOWING DISCHARGES FROM SITES ARE PROHIBITED: WASTEWATER FROM WASHOUT OF CONCRETE, UNLESS MANAGED BY AN APPROPRIATE CONTROL; 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. 17. AFTER CONSTRUCTION ACTIVITIES BEGIN, INSPECTIONS MUST BE CONDUCTED AT A MINIMUM OF AT LEAST ONCE THE CONSTRUCTION SITE. 18. 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 MUST BE IMPLEMENTED AS SOON AS REASONABLY POSSIBLE. 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 = MAIN STREET PLANNED SEQUENCE OF OPERATIONS: 1. CLEARING AND GRUBBING OF AREAS NECESSARY FOR INSTALLATION OF SILT FENCE AND INLET PROTECTION PER CONSTRUCTION PLANS. INSTALLATION OF SEWER MAIN AND SEWER LATERALS PER CONSTRUCTION PLANS REPAVEMENT OF ROADWAY SURFACE AS PER CONSTRUCTION PLANS INSTALLATION OF HYDROSEEDING AND/OR SOD FOR PERMANENT STABILIZATION OF DISTURBED AREAS. MAINTAIN GRASS SURFACE. REMOVE TEMPORARY SEDIMENT CONTROL FEATURES ONCE FINAL STABALIZATION IS OBTAINED. PROJECT LIMITS NOTES: PROJECT LIMITS DETERMINED BY RIGHT-OF-WAY DIMENSIONS AS SPECIFIED AND SHOWN ON "I have placed my signature and seal on the design DRAWINGS. documents submitted signifying that I accept responsibility PROJECT LIMIT AREAS: for the design of the system. Further, I certify to the best of APPROX 11.645 ACRES my knowledge and belief that the design is consistent with LAND DISTURBANCE LIMITS BASED ON PROJECT IMPROVEMENTS AND CONSTRUCTION RELATED ITEMS (DOES NOT INCLUDE MAINTENANCE OF ROADWAYS). the requirements of *Title 48, Chapter 14 of the Code of* Laws of SC, 1976 as amended, pursuant to Regulation LAND DISTURBANCE AREAS: APPROX 0.243 ACRES 72-300 et seq. (if applicable), and in accordance with the terms and conditions of SCR100000."

PROJECT LIMIT AND LAND DISTURBANCE LIMITS SCALE 1" = 80'

SCDHEC SEDIMENT AND EROSION CONTROL STANDARD NOTES

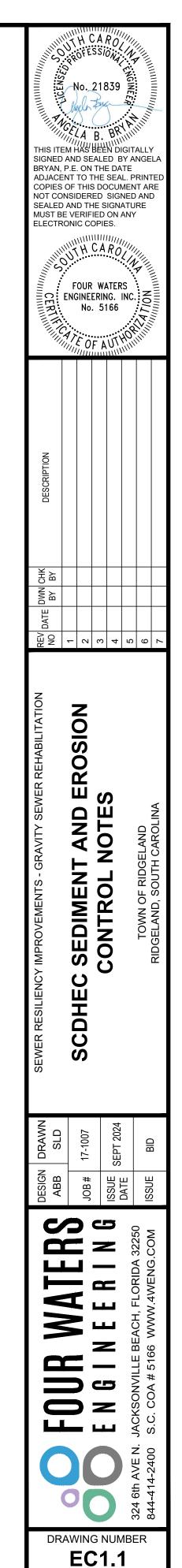
- 1. IF NECESSARY, SLOPES, WHICH EXCEED EIGHT (8) VERTICAL FEET SHOULD BE STABILIZED WITH SYNTHETIC OR VEGETATIVE MATS, IN ADDITION TO HYDROSEEDING. IT MAY BE NECESSARY TO INSTALL TEMPORARY SLOPE DRAINS DURING CONSTRUCTION. TEMPORARY BERMS MAY BE NEEDED UNTIL THE SLOPE IS BROUGHT TO GRADE.

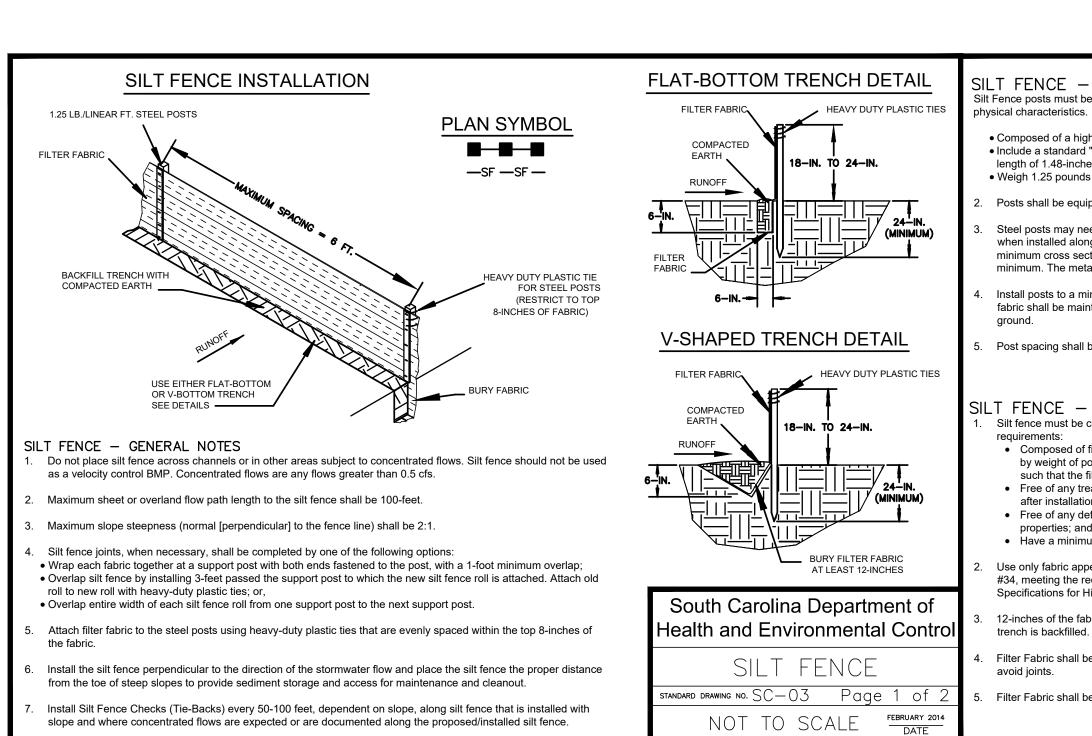
- INCORRECTLY, THE PERMITTEE MUST ADDRESS THE NECESSARY REPLACEMENT OR MODIFICATION REQUIRED TO
- GRASSING IMMEDIATELY AFTER THE UTILITY INSTALLATION. FILL, COVER, AND TEMPORARY SEEDING AT THE END
- UNTIL THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES AND ALL DISTURBED AREAS HAVE BEEN STABILIZED. ADDITIONAL CONTROL DEVICES MAY BE REQUIRED DURING CONSTRUCTION IN ORDER TO CONTROL EROSION

- PROTECT WORK AREAS FROM UPSLOPE RUNOFF AND/OR TO DIVERT SEDIMENT-LADEN WATER TO APPROPRIATE
- IMPACT (SUCH AS STOCKPILES OF FRESHLY TREATED LUMBER) AND CONSTRUCTION CHEMICALS THAT COULD BE
- 11. A COPY OF THE SWPPP, INSPECTIONS RECORDS, AND RAINFALL DATA MUST BE RETAINED AT THE CONSTRUCTION

- 14. MINIMIZE THE DISCHARGE OF POLLUTANTS FROM EQUIPMENT AND VEHICLE WASHING, WHEEL WASH WATER, AND OTHER WASH WATERS, WASH WATERS MUST BE TREATED IN A SEDIMENT BASIN OR ALTERNATIVE CONTROL THAT

- WASTEWATER FROM WASHOUT AND CLEANOUT OF STUCCO, PAINT, FORM RELEASE OILS, CURING COMPOUNDS AN
- EVERY CALENDAR WEEK AND MUST BE CONDUCTED UNTIL FINAL STABILIZATION IS REACHED ON ALL AREAS OF
- 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
- 19. A PRE-CONSTRUCTION CONFERENCE MUST BE HELD FOR EACH CONSTRUCTION SITE WITH AN APPROVED ON-SITE





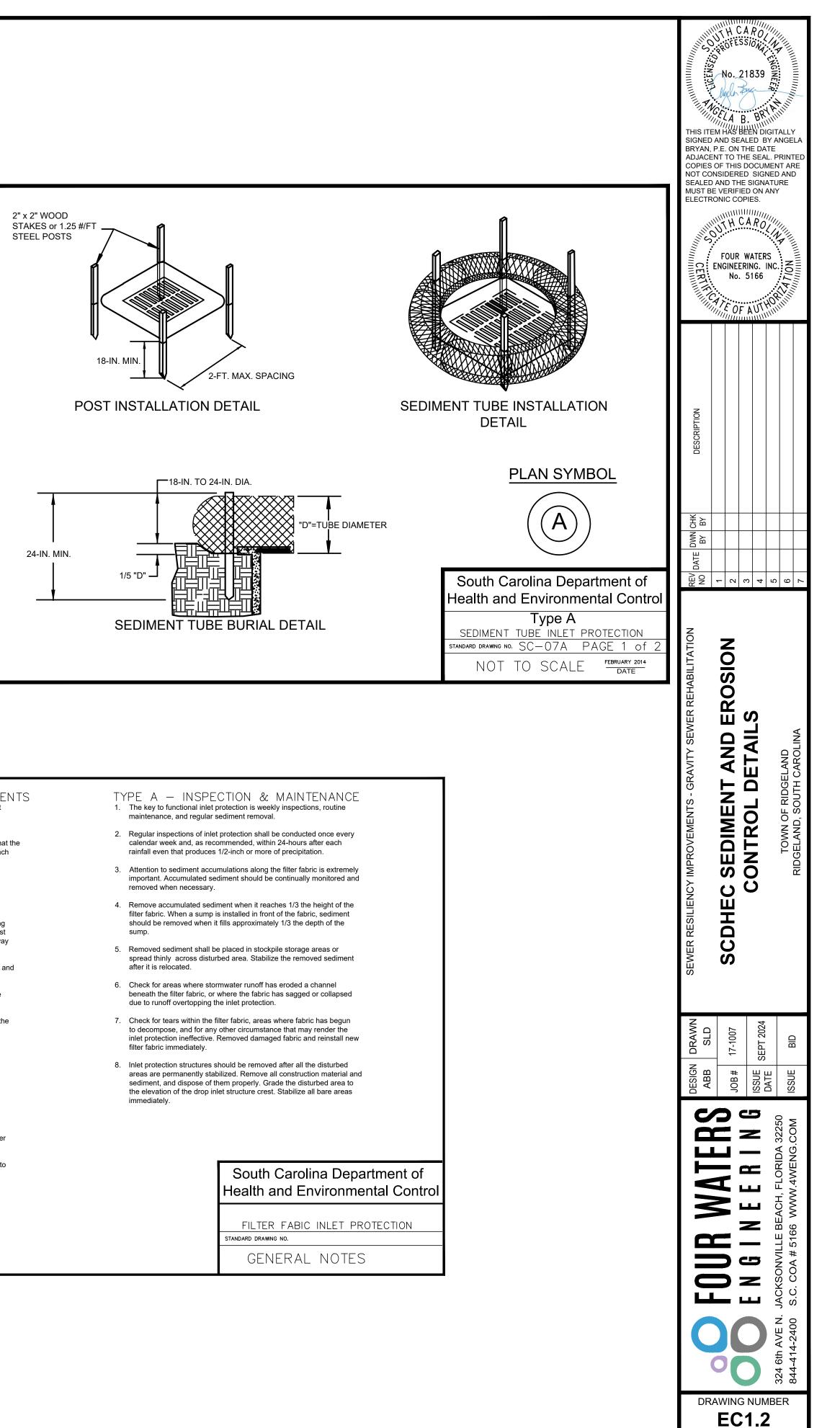
TYPE A - SEDIMENT TUBE INLET PROTECTION		TYPE A -	
GENERAL NOTES	INSPECTION & MAINTENANCE	1. Silt fence must consists of the	be composed of wo following requireme
 Sediment tubes are elongated tubes of compacted geotextiles, curled excelsior wood, natural coconut fiber, or hardwood mulch. Straw, pine needle, and leaf mulch-filled sediment 	 The key to functional inlet protection is weekly inspections, routine maintenance, and regular sediment removal. 	- Composed of fi of at least 85 polyamide	ibers consisting of lo 5% by weight of pol es that are
tubes are not permitted.	2. Regular inspections of sediment tube inlet protection shall be	filaments other;	or yarns retain dim
 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 	conducted once every calendar week and, as recommended, within 24-hours after each rainfall even that produces 1/2-inch or more of precipitation.	physical pro - Free of any def	atment or coating wi perties after installa fects or flaws that sign ng properties; and,
polyethylene non-degradable material.	3. Attention to sediment accumulations in front of the sediment	- Have a minimu	im width of 36-inche
 Sediment tube diameters shall range from 18-inches to 24-inches. Sediment tunes with smaller diameters are 	tube is extremely important. Accumulated sediment should be continually monitored and removed when necessary.	2. Use only fabric (QPL), Approva	appearing on SC E al Sheet #34, meeti
prohibited when used as inlet protection.	4. Remove accumulated sediment when it reaches 1/3 the height of the sediment tube. When a sump is installed in front of the	current edition Construction.	of the SC DOT Star
 Curled excelsior wood, or natural coconut products that are rolled up to create a sediment tube are not allowed. 	inlet protection, sediment shall be removed when if fills approximately 1/3 the depth of the sump.	3. 12-inches of the toed in when the	e fabric should be p ne trench is backfille
 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 	Removed sediment shall be placed in stockpile storage areas or spread thinly across disturbed area. Stabilize the removed sediment after it is relocated.	4. Filter Fabric sha length of the ba	all be purchased in arrier to avoid joints
a minimum of 48-inches in length placed on 2-foot centers.	Large debris, trash, and leaves should be removed from in front of tubes when found.	5. Filter Fabric sha ground.	all be installed at a
 Install all sediment tubes to ensure that no gaps exist between the soil and the bottom of the tube. Manufactuer's recommendations should always be consulted before installation. 	 Inlet protection structures should be removed after the disturbed areas are permanently stabilized. Remove all construction material and sediment, and dispose of them properly. Grade the disturbed area to the elevation of the drop 	TYPE A — 1. Silt Fence post	ts must be 48-inch lo
 The ends of adjacent sediment tubes should be overlapped 6-inches to prevent flow and sediment from passing through the field joint. 	inlet structure crest. Stabilize all bare areas immediately.	- Composed of a strength of	ollowing physical ch a high strength steel 50,000 psi. lard "T" section with and a nomin
8. Sediment tubes should not be stacked on top of one another.		- Weigh 1.25 por	
 Each sediment tube should be installed in a trench with a depth equal to 1/5 the diameter of the sediment tube. 		2. Posts shall be e fabric.	∍quipped with proje
10. Install stakes at a diagonal facing incoming runoff.	South Carolina Department of		e the fabric shall be
	Health and Environmental Control	height of 3 feet 4. Post spacing sl	shall be maintained
	Туре А	4. Fost spacing si	ימוו של מנ מ ווומאווווע
	SEDIMENT TUBE INLET PROTECTION STANDARD DRAWING NO. SC-07A PAGE 2 of 2		
	NOT TO SCALE FEBRUARY 2014		

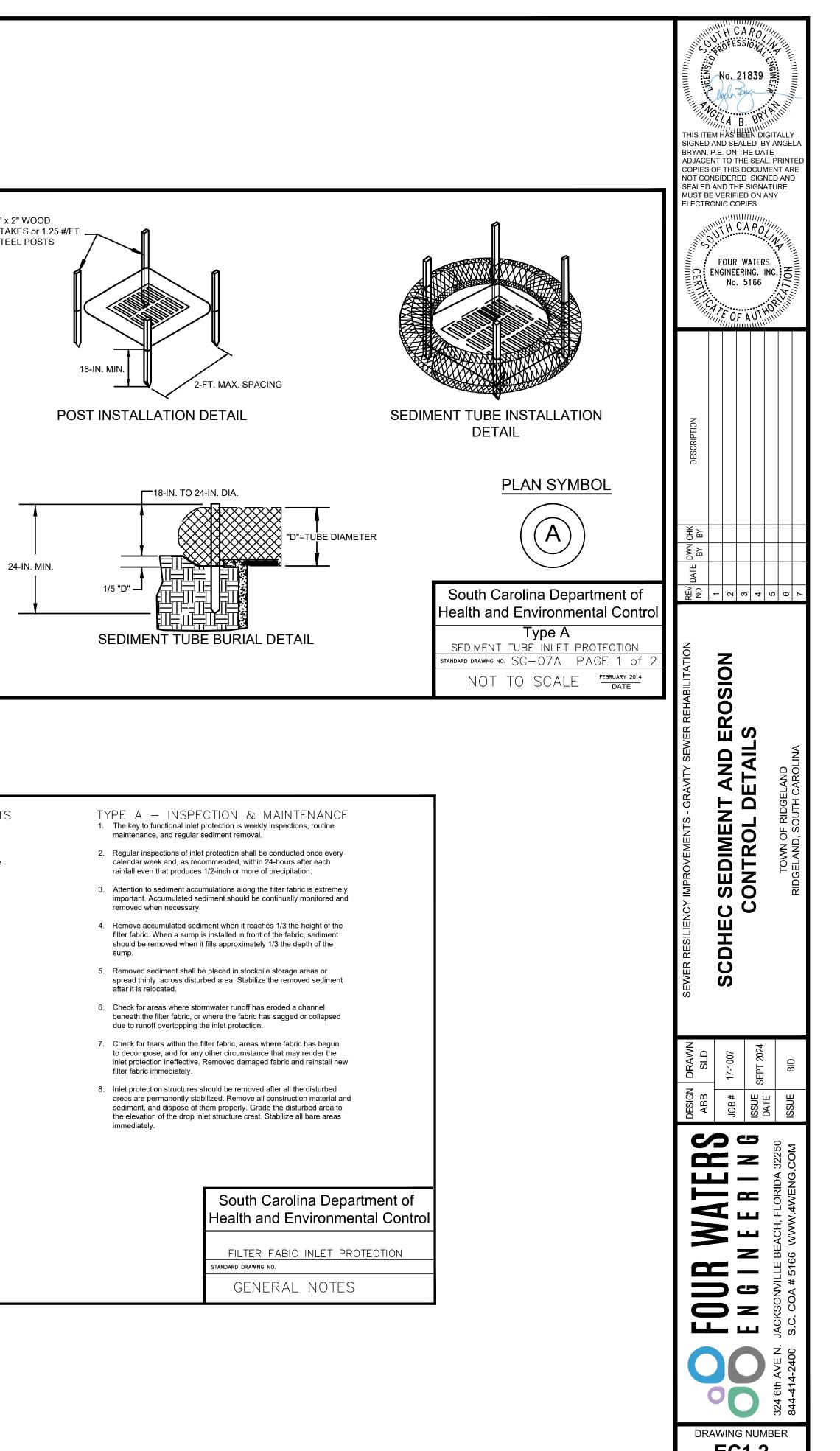
E — POST REQUIREMENTS nust be 48-inch long steel posts that meet, at a minimum, the following istics.	SII 1.	LT FEN The key to t regular sedi
a high strength steel with a minimum yield strength of 50,000 psi. ndard "T" section with a nominal face width of 1.38-inches and a nominal "T" B-inches. ounds per foot (± 8%)	2.	Regular ins and, as reco 1/2-inch or i
e equipped with projections to aid in fastening of filter fabric.	3.	Attention to Accumulate necessary.
nay need to have a metal soil stabilization plate welded near the bottom d along steep slopes or installed in loose soils. The plate should have a ss section of 17-square inches and be composed of 15 gauge steel, at a e metal soil stabilization plate should be completely buried.	4.	Remove act
o a minimum of 24-inches. A minimum height of 1- to 2- inches above the e maintained, and a maximum height of 3 feet shall be maintained above the	5.	Removed se across distu
shall be at a maximum of 6-feet on center.	6.	Check for a silt fence, o overtopping as necessa
 FABRIC REQUIREMENTS st be composed of woven geotextile filter fabric that consists of the following 	7.	Check for te decompose ineffective. immediately
ed of fibers consisting of long chain synthetic polymers of at least 85% to f polyolefins, polyesters, or polyamides that are formed into a network to the filaments or yarns retain dimensional stability relative to each other; any treatment or coating which might adversely alter its physical properties tallation;	8.	Silt fence sh and once it stabilized.
any defects or flaws that significantly affect its physical and/or filtering es; and,		
ninimum 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
- Filter Fabric shall be purchased in continuous rolls and cut to the length of the barrier to

Filter Fabric shall be installed at a minimum of 24-inches above the ground.

- CE INSPECTION & MAINTENANCE functional silt fence is weekly inspections, routine maintenance, and iment removal.
- pections of silt fence shall be conducted once every calendar week ommended, within 24-hours after each rainfall even that produces more of precipitation.
- sediment accumulations along the silt fence is extremely important. ed sediment should be continually monitored and removed when
- ccumulated sediment when it reaches 1/3 the height of the silt
- sediment shall be placed in stockpile storage areas or spread thinly turbed area. Stabilize the removed sediment after it is relocated.
- areas where stormwater runoff has eroded a channel beneath the or where the fence has sagged or collapsed due to runoff g the silt fence. Install checks/tie-backs and/or reinstall silt fence,
- tears within the silt fence, areas where silt fence has begun to e, and for any other circumstance that may render the silt fence Removed damaged silt fence and reinstall new silt fence
- should be removed within 30 days after final stabilization is achieved is removed, the resulting disturbed area shall be permanently





South Carolina Department of Health and Environmental Control
SILT FENCE
standard drawing no. SC-03 PAGE 2 of 2
GENERAL NOTES FEBRUARY 2014 DATE

- ABRIC REQUIREMENTS woven geotextile filter fabric that
- ments: f long chain sv oolyolefins, polyesters, or formed into a network such that the limensional stability relative to each
- which might adversely alter its
- t significantly affect its physical
- hes C DOT's Qualified Products Listing
- eting the requirements of the most tandard Specifications for Highway
- placed within excavated trench and
- in continuous rolls and cut to the
- at a minimum of 24-inches above the
- EQUIREMENTS h long steel posts that meet, at a
- characteristics. teel with a minimum yield
- with a nominal face width of ninal "T" length of 1.48-inches.
- 3%)
- ojections to aid in fastening of filter
- 4-inches. A minimum height of 1- to be maintained, and a maximum ined above the ground.
- num of 3-feet on center.

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