

TOWN OF SMITHFIELD

JOHNSTON COUNTY, NORTH CAROLINA



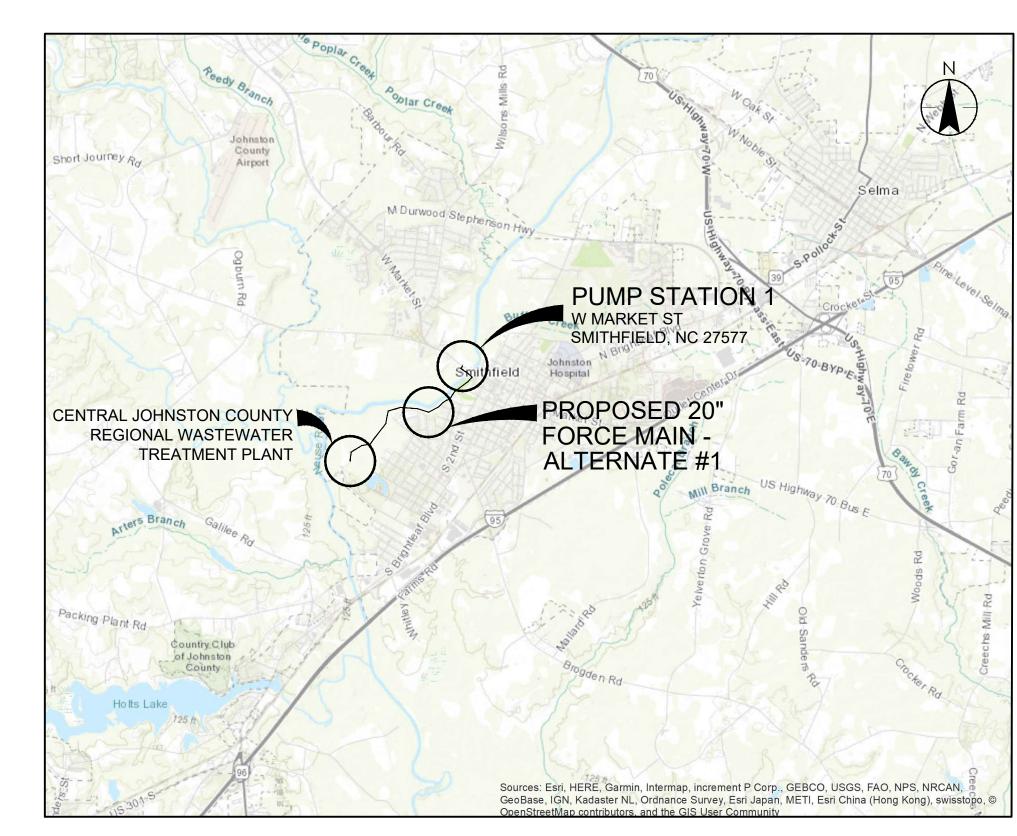
PUMP STATION #1 FORCE MAIN IMPROVEMENTS ALTERNATE #1

FINAL DRAWINGS - FOR BIDDING

AUGUST 2025

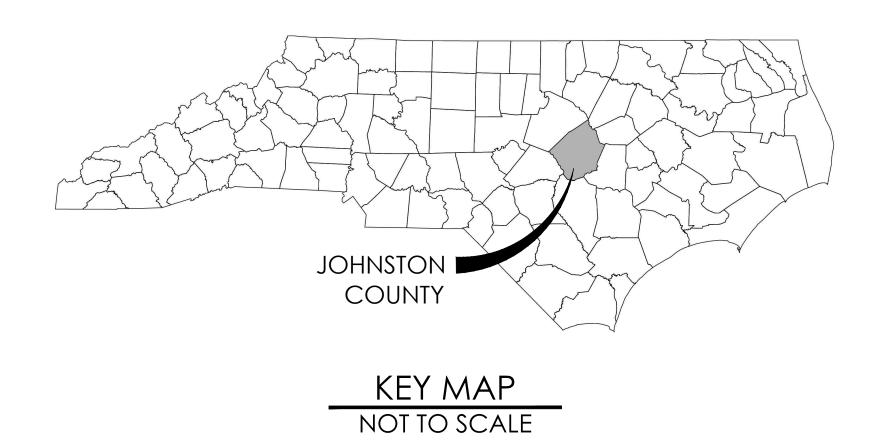
DWI No.: SRP - W - ARP - 0063

STANTEC PROJECT No.: 175568555



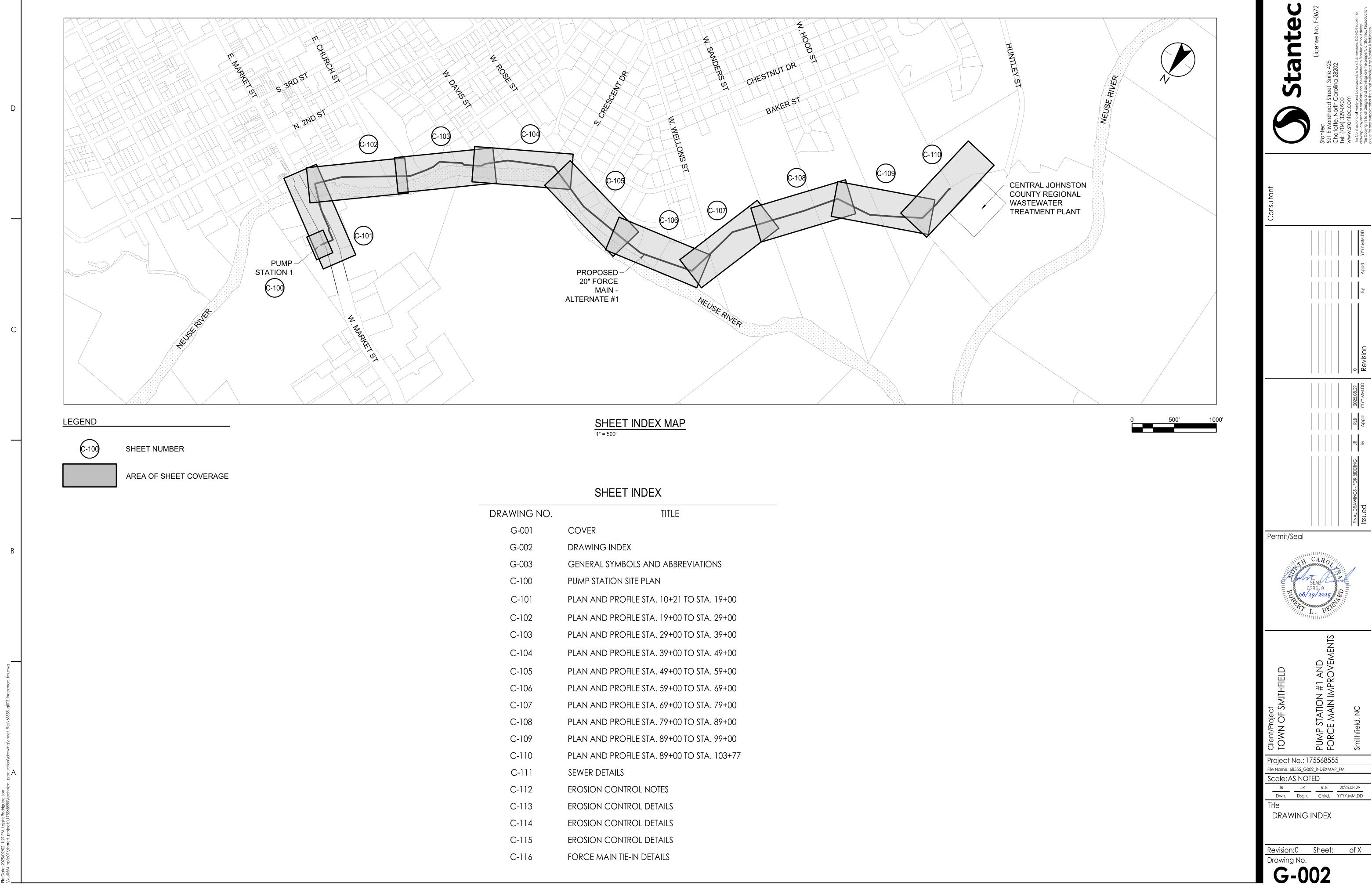
VICINITY MAP

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ORIGINAL SHEET - ANSI D

- 1. OWNER: TOWN OF SMITHFIELD
 ADDRESS: 350 EAST MARKET STREET SMITHFIELD NC 27577
 PHONE: (919) 934-2116
- 2. <u>DESIGN ENGINEER</u>: STANTEC CONSULTING SERVICES, INC. ADDRESS: 801 JONES FRANKLIN ROAD SUITE 300 RALEIGH NC 27606 PHONE: (919) 851-6866
- 3. <u>SURVEYOR</u>: STANTEC CONSULTING SERVICES, INC. ADDRESS: 801 JONES FRANKLIN ROAD SUITE 300 RALEIGH NC 27606 PHONE: (919) 851-6866
- 4. ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM (N.A.V.D.) 1988.

PROJECT DESCRIPTION

THE PURPOSE OF THIS PROJECT IS TO REDUCE SANITARY SEWER OVERFLOWS AND ULTIMATELY PROTECT THE SAFETY AND HEALTH OF SMITHFIELD'S CITIZENS AND PROTECT THE ENVIRONMENT. THIS PROJECT WILL HELP PROVIDE ADDITIONAL CAPACITY AND UPDATED INFRASTRUCTURE ALONG THE NEUSE RIVER AND RESIDENTS IN THE PUMP STATION #1 SEWER BASIN.

THE PROJECT GOALS INCLUDE REMOVING THE EXISTING FLOW FROM THE PUMP STATION 1 (PS1) IN SMITHFIELD, NC FROM THE EXISTING JOHNSTON COUNTY FORCE MAIN BY CONSTRUCTING A NEW FORCE MAIN FROM THE EXISTING STATION TO THE JOHNSTON COUNTY REGIONAL WASTEWATER FACITLITY. THE REMOVAL OF THE EXISTING PS1 FLOWS BY THIS PROJECT WILL INCREASE THE CAPACITY OF THE EXISTING FORCE MAIN. FUTURE PROJECTS ARE EXPECTED TO IMPROVE THE EXISTING PUMP STATION INFRASTRUCTURE.

THE MANIFOLD WITH THE EXISTING JOHNSTON COUNTY FORCE MAIN WILL BE REMOVED AND A NEW FORCE MAIN WILL BE INSTALLED FROM PS1 TO THE CENTRAL JOHNSTON COUNTY REGIONAL WASTEWATER FACILITY (CJWWTF). A NEW 20-INCH FORCE MAIN WILL LEAVE THE PS1 SITE AND CONNECT TO THE EXISTING 12-INCH CROSSING OF THE NEUSE RIVER. ONCE ACROSS THE RIVER, A NEW 20-INCH FORCE MAIN WILL BE INSTALLED TO THE PLANT INSIDE THE COUNTY'S EXISTING EASEMENT. THE FORCE MAIN FROM THE WEST SMITHFIELD PUMP STATION WILL MANIFOLD TO THE NEW 20-INCH FORCE MAIN AT THE RIVER CROSSING. THE EXISTING BUFFALO CREEK PUMP STATION FORCE MAIN WILL BE REDIRECTED TO THE PROPOSED 20" FORCE MAIN TO DIVERT WASTEWATER FLOW TO THE CJWWTF.

GENERAL CONSTRUCTION NOTES

- 1. CONSTRUCTION AND MATERIAL SPECIFICATIONS SHALL BE IN ACCORDANCE WITH TOWN OF SMITHFIELD AND JOHNSTON COUNTY STANDARD SPECIFICATIONS.
- 2. THE CONTRACTOR SHALL VERIFY LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.
- 3. ALL SHORING SHALL BE IN ACCORDANCE WITH OSHA TRENCHING STANDARDS PART 1926, SUBPART P, AS AMENDED TO DATE.
- 4. IF THE PROPOSED SEWER MAIN IS INSTALLED WITHIN 12" IN ANY DIRECTION (VERTICALLY OR HORIZONTALLY) FROM A GAS MAIN, THEN THE CONTRACTOR SHALL CALL THE LOCAL UTILITY DIRECTLY AND INFORM THEM.
- 5. THE CONTRACTOR SHALL USE EROSION CONTROL MEASURES AS NEEDED PER NCDEQ.
- 6. IF ADDITIONAL WORK SPACE IS NEEDED, AN ENCROACHMENT IS TO BE AGREED UPON BETWEEN THE CONTRACTOR AND THE PROPERTY OWNER IN WRITING.
- 7. CONTRACTOR SHALL LOCATE AND PROTECT ALL PROPERTY MONUMENTS. IF CORNERS ARE DISTURBED THEY SHALL BE REPLACED BY A NC PLS AT CONTRACTORS EXPENSE.

SAFETY

- 1. DURING THE CONSTRUCTION AND MAINTENANCE OF THIS PROJECT ALL SAFETY REGULATIONS SHALL BE ENFORED. THE CONTRACTOR OR HIS REPRESENTATIVE SHALL BE RESPONSIBLE FOR THE CONTROL AND SAFETY OF THE TRAVELING PUBLIC AND THE SAFETY OF HIS PERSONNEL.
- 2. THE CONTRACTOR'S MAINTENANCE OF TRAFFIC CONTROL PLAN MUST BE SUBMITTED AND APPROVED BY THE NCDOT AND APPLICABLE LOCAL AGENCIES PRIOR TO COMMENCEMENT OF CONSTRUCTION WITHIN STATE OR CITY RIGHT OF WAYS.
- 3. LABOR SAFETY REGULATIONS SHALL CONFORM TO THE PROVISIONS SET FORTH BY OSHA IN THE FEDERAL REGISTER OF THE DEPARTMENT OF TRANSPORTATION.
- 4. CONTRACTOR SHALL PROVIDE AND MAINTAIN HIS OWN SAFETY EQUIPMENT IN ACCORDANCE WITH HIS HEALTH AND SAFETY PROGRAM AND ALL OTHER APPLICABLE LEGAL AND HEALTH AND SAFETY REQUIREMENTS. THE CONTRACTOR IS ALSO RESPONSIBLE FOR PROVIDING ITS EMPLOYEES AND SUB CONTRACTORS WITH ADEQUATE INFORMATION AND TRAINING TO ENSURE THAT ALL EMPLOYEES AND SUB CONTRACTORS AND SUB CONTRACTOR'S EMPLOYEES COMPLY WITH ALL APPLICABLE REQUIREMENTS. CONTRACTOR SHALL REMAIN IN COMPLIANCE WITH ALL OCCUPATION SAFETY AND HEALTH REGULATIONS AS WELL AS THE ENVIRONMENTAL PROTECTION LAWS. THE FOLLOWING IS NOT TO BE PERCEIVED AS THE ENTIRE SAFETY PROGRAM BUT JUST BASIC REQUIREMENTS.
- 5. ALL EXCAVATIONS BY THE CONTRACTOR SHALL CONFORM TO THE REQUIREMENTS OF THE DEPARTMENT OF LABOR'S OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION RULES AND REGULATIONS. PARTICULAR ATTENTION MUST BE PAID TO THE
- CONSTRUCTION STANDARDS FOR EXCAVATIONS, 29 CFR PART 1926 SUBPART P.

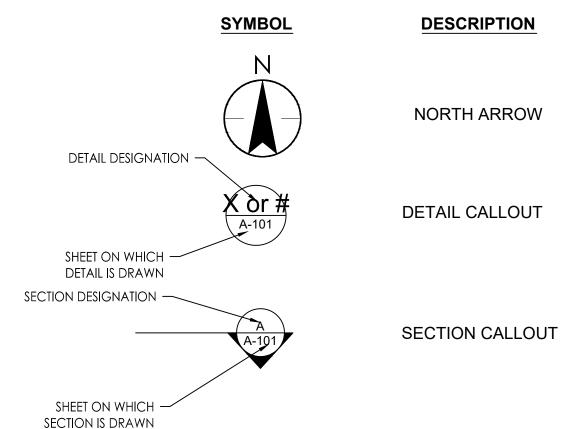
 6. THE STANDARDS SET FORTH IN THE CURRENT EDITION OF "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) BE FOLLOWED IN THE DESIGN APPLICATION, INSTALLATION, MAINTENANCE AND REMOVAL OF ALL TRAFFIC CONTROL DEVICES, WARNING DEVICES AND BARRIERS NECESSARY TO PROTECT THE PUBLIC AND WORKMEN FROM HAZARDS WITHIN THE PROJECT LIMITS.
- 7. ALL TRAFFIC CONTROL MARKINGS AND DEVICES SHALL CONFORM TO THE PROVISIONS SET FORTH IN THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES PREPARED BY THE US DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION. ALL NORTH CAROLINA AMENDMENTS SHALL APPLY.
- ENFORCE ALL APPLICABLE SAFETY REGULATIONS. THE ABOVE INFORMATION HAS BEEN PROVIDED FOR THE CONTRACTORS INFORMATION ONLY AND DOES NOT IMPLY THAT THE OWNER OR ENGINEER WILL INSPECT AND/OR ENFORCE SAFETY REGULATION.

 THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION INAREAS OF BURIED LITERAL TIPES.

8. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO COMPLY AND

- THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION INAREAS OF BURIED UTILITIES
 AND SHALL PROVIDE AT LEAST 72 HOURS NOTICE TO NC811 PRIOR TO CONSTRUCTION
 TO OBTAIN FIELD LOCATIONS OF EXISTING UNDERGROUND UTILITIES.
 THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE TO EXISTING
- 10. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE TO EXISTING FACILITIES, ABOVE OR BELOW GROUND, THAT MAY OCCUR AS A RESULT OF THE WORK PERFORMED BY THE CONTRACTOR CALLED FOR IN THIS CONTRACT AT NO ADDITIONAL COST TO THE OWNER.

DRAFTING SYMBOLS



ABBREVIATIONS

——— — — W——— WATER LINE

STREAM

WATER METER

WATER VALVE

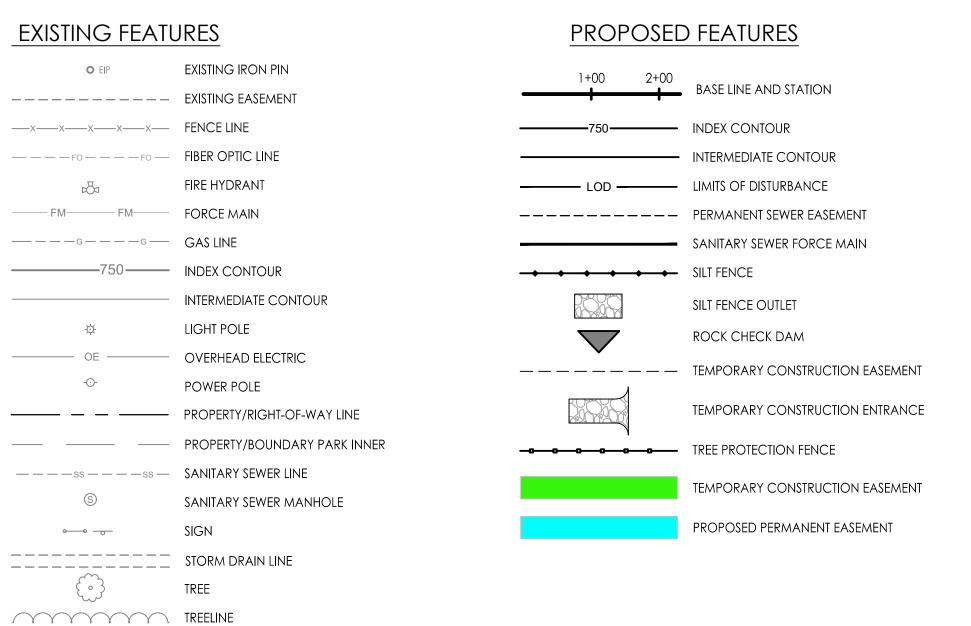
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MINIMUM SETBACK

EXISTING EASEMENT

ABAND	ABANDONED	CNID	CROUND	REINF	REINFORCE (D) (ING) (MENT)
ABBRV	ABBREVIATION	GND	GROUND	REPL	REPLACE
ABC	AGGREGATE BASE COURSE	GR	GRADE	REQ	REQUIRE
ADDL	ADDITIONAL			REQD	REQUIRED
ADJ	ADJUSTABLE	HDPE	HIGH DENSITY POLYETHYLENE	REV	REVISION
AGGR	AGGREGATE	HDWL	HEADWALL	RT	RIGHT
ALT	ALTERNATE	HORIZ	HORIZONTAL	R/W	RIGHT OF WAY
ALUM	ALUMINUM	HT	HEIGHT		
AMT	AMOUNT		112.0111	S	SOUTH
APPD	APPROVED	ID	INSIDE DIAMETER	SAN	SANITARY
APPROX	APPROXIMATE	IN	INCH	SECT	SECTION
ASPH	ASPHALT	INV	INVERT	SF	SQUARE FOOT
		INV EL	INVERT ELEVATION	SHT	SHEET
BDRY	BOUNDARY	IΡ	IRON PIPE	SIM	SIMILAR
BKGD	BACKGROUD			SPEC	SPECIFICATION
BL	BASE LINE	LB	POUND	SQ	SQUARE
BM	BENCHMARK	LF	LINEAR FOOT	SQ FT	SQUARE FOOT
BOC	BACK OF CURB	LFT	LEFT	SQ IN	SQUARE INCH
		LG	LONG, LENGTH		
BOT	BOTTOM			SQ YD	SQUARE YARD
BRG	BEARING	LIN	LINEAR	SSMH	SANITARY SEWER MANHOLE
BTWN	BETWEEN	LP	LIGHT POLE	SST, SSTL	STAINLESS STEEL
				STA	STATION
CB	CATCH BASIN	MATL	MATERIAL	STD	STANDARD
C/C	CENTER TO CENTER	MAX	MAXIMUM	STL	STEEL
CI	CAST IRON, CURB INLET	MFR	MANUFACTURER	STM	STORM
CL	CENTER LINE	MH	MANHOLE	STN	STONE
		MIN			
CMU	CONCRETE MASONRY UNIT		MINIMUM, MINUTE	STRUCT	STRUCTURAL
CO	CLEANOUT	MISC	MISCELLANEOUS	SWR	SEWER
CONC	CONCRETE			SYM	SYMBOL
CONN	CONNECTION	N	NORTH	SYMM	SYMMETRICAL
CONST	CONSTRUCTION	NA	NOT APPLICABLE		
CONT	CONTINUOUS	#, NO	NUMBER	TBA	TO BE ABANDONED
CTR	CENTER	NTS	NOT TO SCALE	TBM	TEMPORARY BENCHMARK
OTIX	OLIVILIX	1110	NOT TO COME	TBR	TO BE REMOVED
Б	DEDTU	ОС	ON CENTER		
D	DEPTH			TCE	TEMPORARY CONSTRUCTION
DAT	DATUM	OD	OUTSIDE DIAMETER	EASEMENT	
D.B.	DEED BOOK	OPNG	OPENING	TEMP	TEMPORARY, TEMPERATURE
DBL	DOUBLE	ORIG	ORIGINAL	THK	THICKNESS
DEMO	DEMOLITION			THRU	THROUGH
DET	DETAIL	P.B.	PLAT BOOK	TOC, TC	TOP OF CONCRETE, TOP OF CUF
DI	DUCTILE IRON, DROP INLET	PERM	PERMANENT	TOW	TOP OF WALL
DIA	DIAMETER	PERP	PERPENDICULAR	TYP	
			PAGE	IYP	TYPICAL
DIM	DIMENSION	PG			
DIST	DISTANCE	PI	POINT OF INTERSECTION	UON	UNLESS OTHERWISE NOTED
ON	DOWN	PK	PK NAIL	UTIL	UTILITY
DR	DRAIN	PL	PROPERTY LINE		
DWG	DRAWING	PREFAB	PREFABRICATED	VAR	VARIES
		PRELIM	PRELIMINARY	VC	VITRIFIED CLAY PIPE
EA	EACH	PROJ	PROJECT	VERT	VERTICAL
ELEC	ELECTRIC (AL)	PROP	PROPERTY	VENI	VERTICAL
				147	MEGT
EL, ELEV	ELEVATION	PT	PRESSURE TREATED	W	WEST
ENGR	ENGINEER	PVC	POLYVINYL CHLORIDE	W/	WITH
ĒΡ	EDGE OF PAVEMENT			W/O	WITHOUT
ΞQ	EQUAL	QTY	QUANTITY		
ESMT	EASEMENT	QUAL	QUALITY		
EX, EXIST	EXISTING				
_,, _,,,	_,	R	RADIUS		
FF	FINISHED FLOOR	RC	REINFORCED CONCRETE		
FFE	FINISHED FLOOR ELEVATION	RCP	REINFORCED CONCRETE PIPE		
FLEX	FLEXIBLE	REBAR	REINFORCING STEEL BARS		
FT	FOOT, FEET	REF	REFERENCE		

SYMBOLS LEGEND



NOT ALL SYMBOLS AND ABBREVIATIONS ARE USED tantec

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Permit/Seal



TOWN OF SMITHFIELD

Project No.: 175568555
File Name: 68555_G003_SYMBOLS_FM
Scale: AS NOTED

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GENERAL NOTES, SYMBOLS AND ABBREVIATIONS

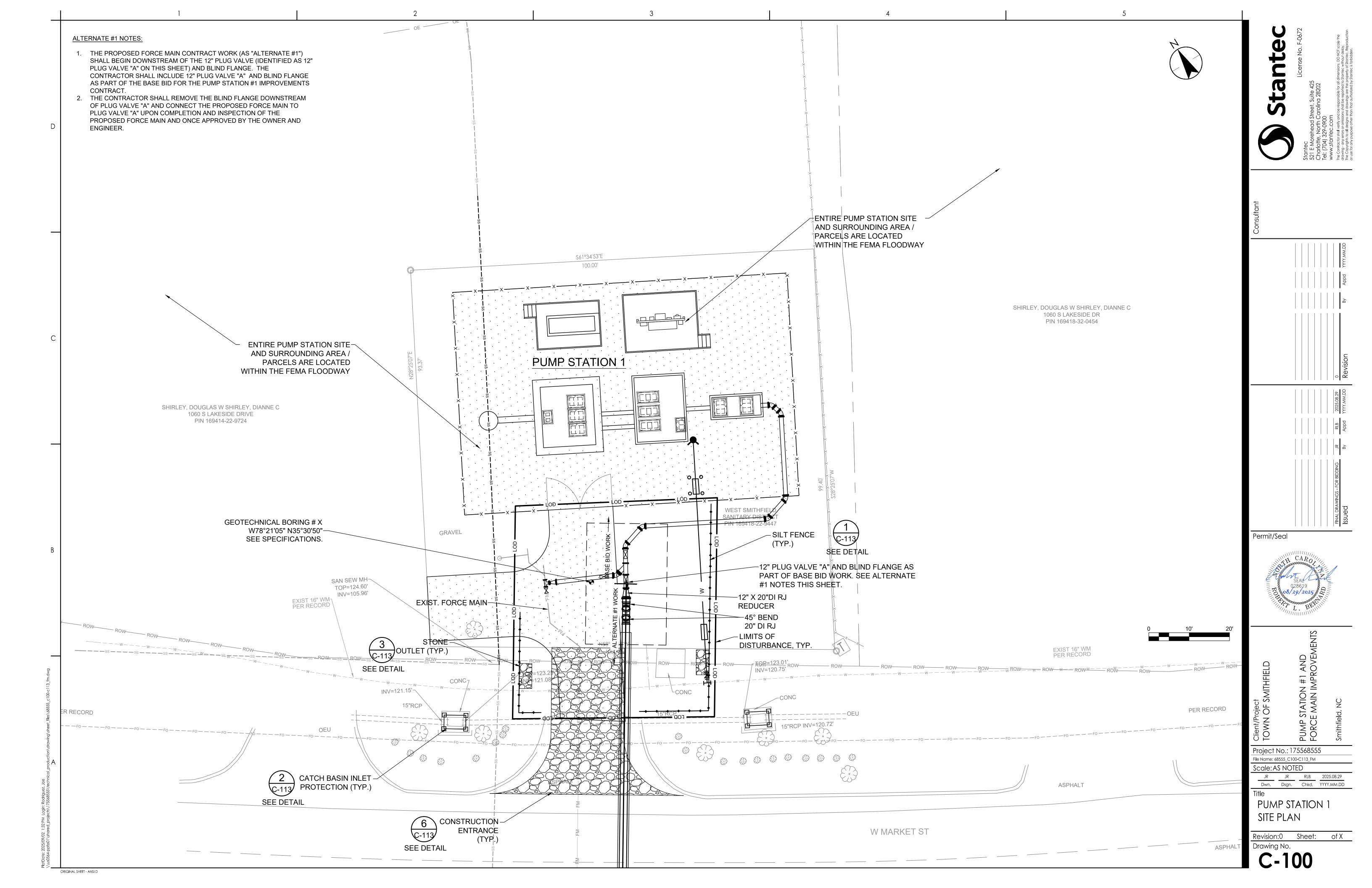
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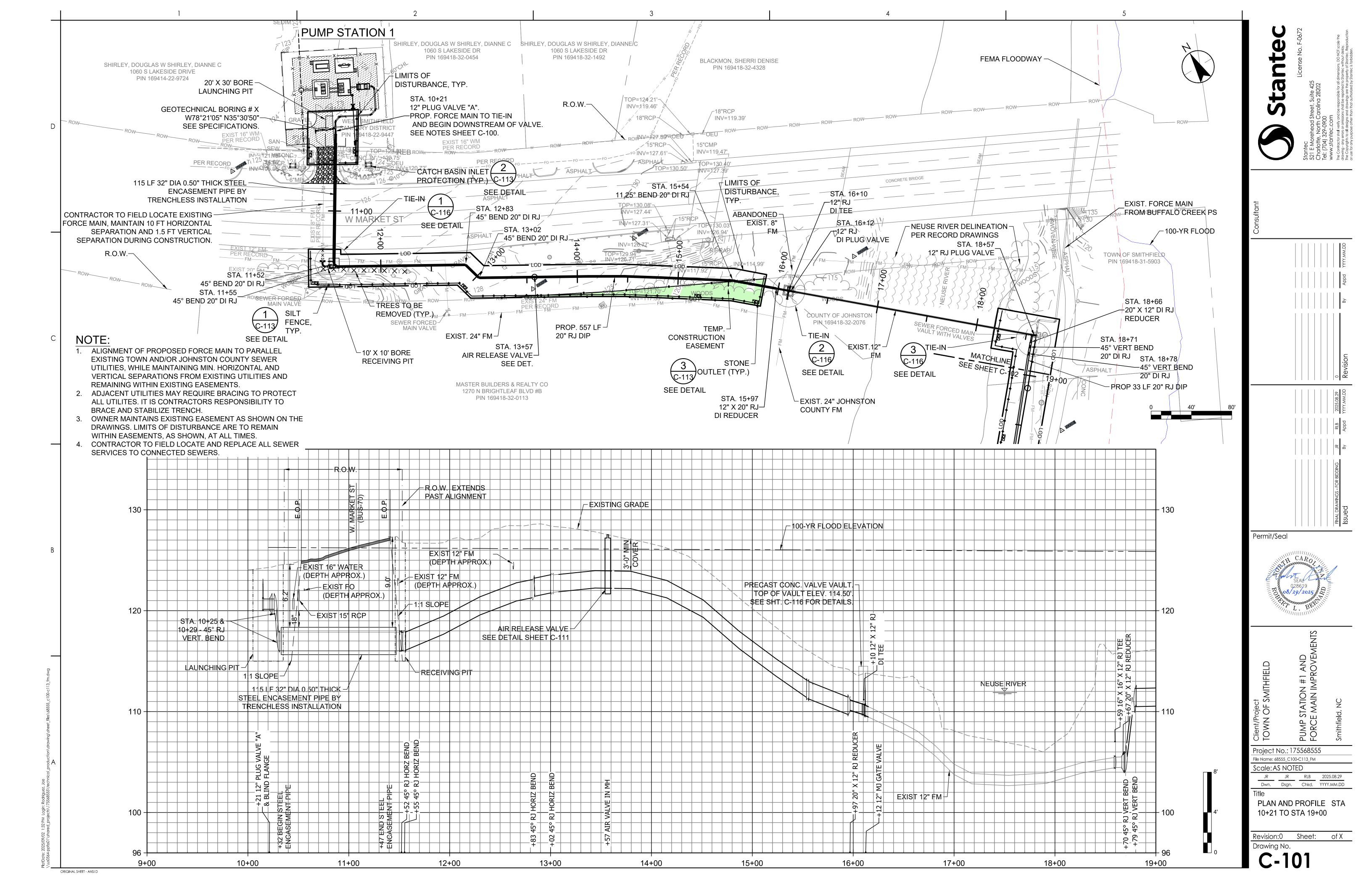
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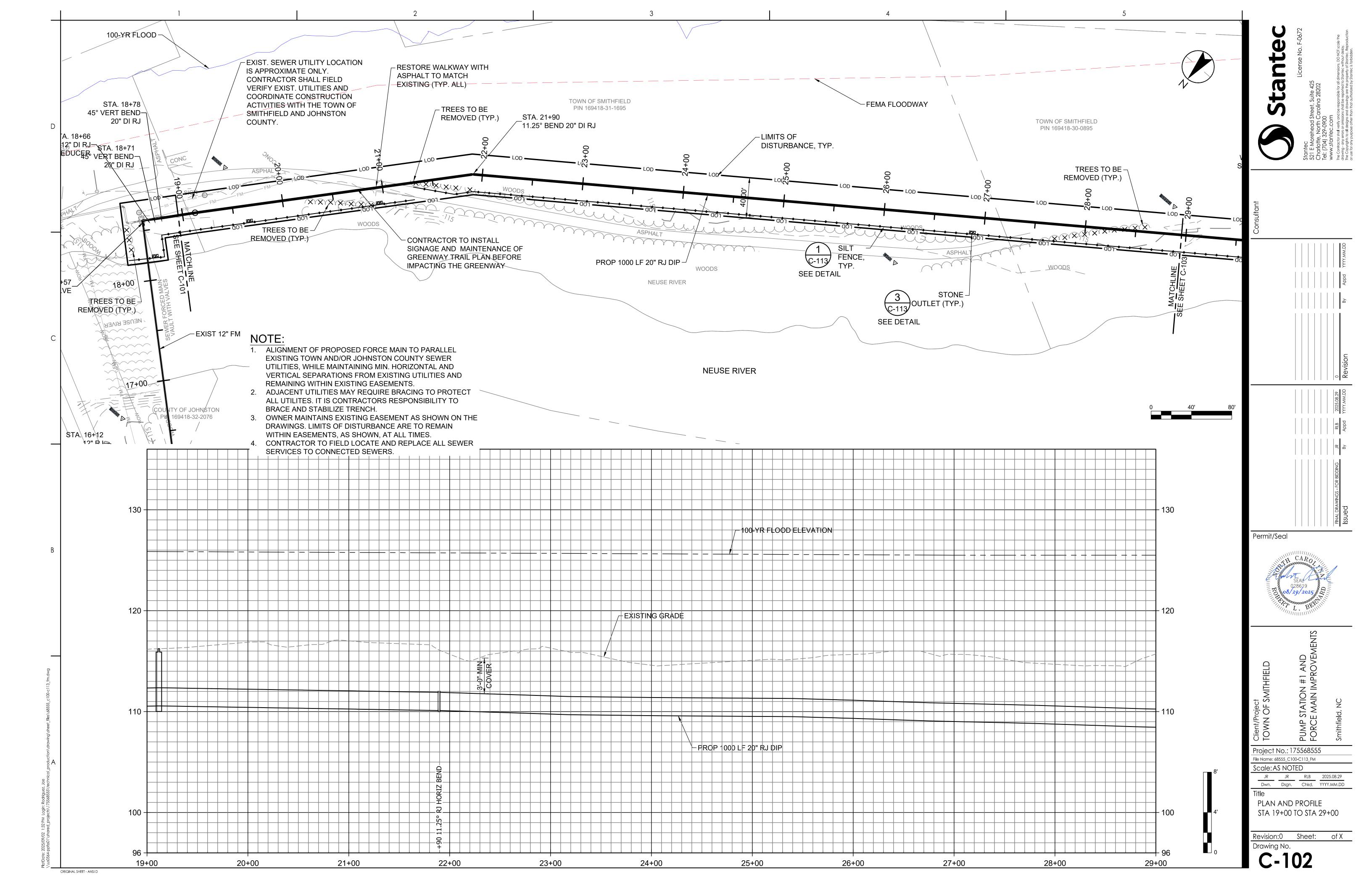
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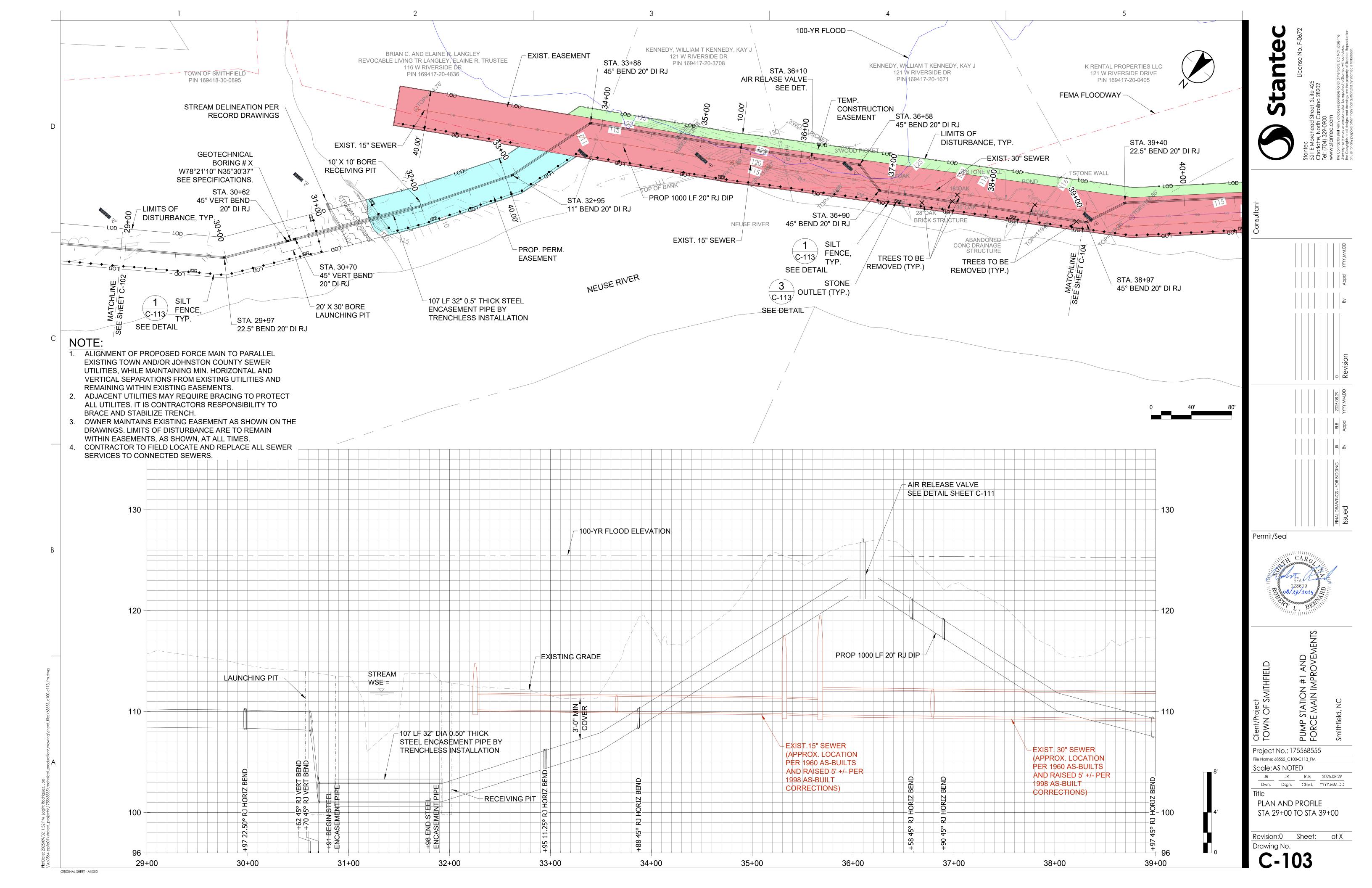
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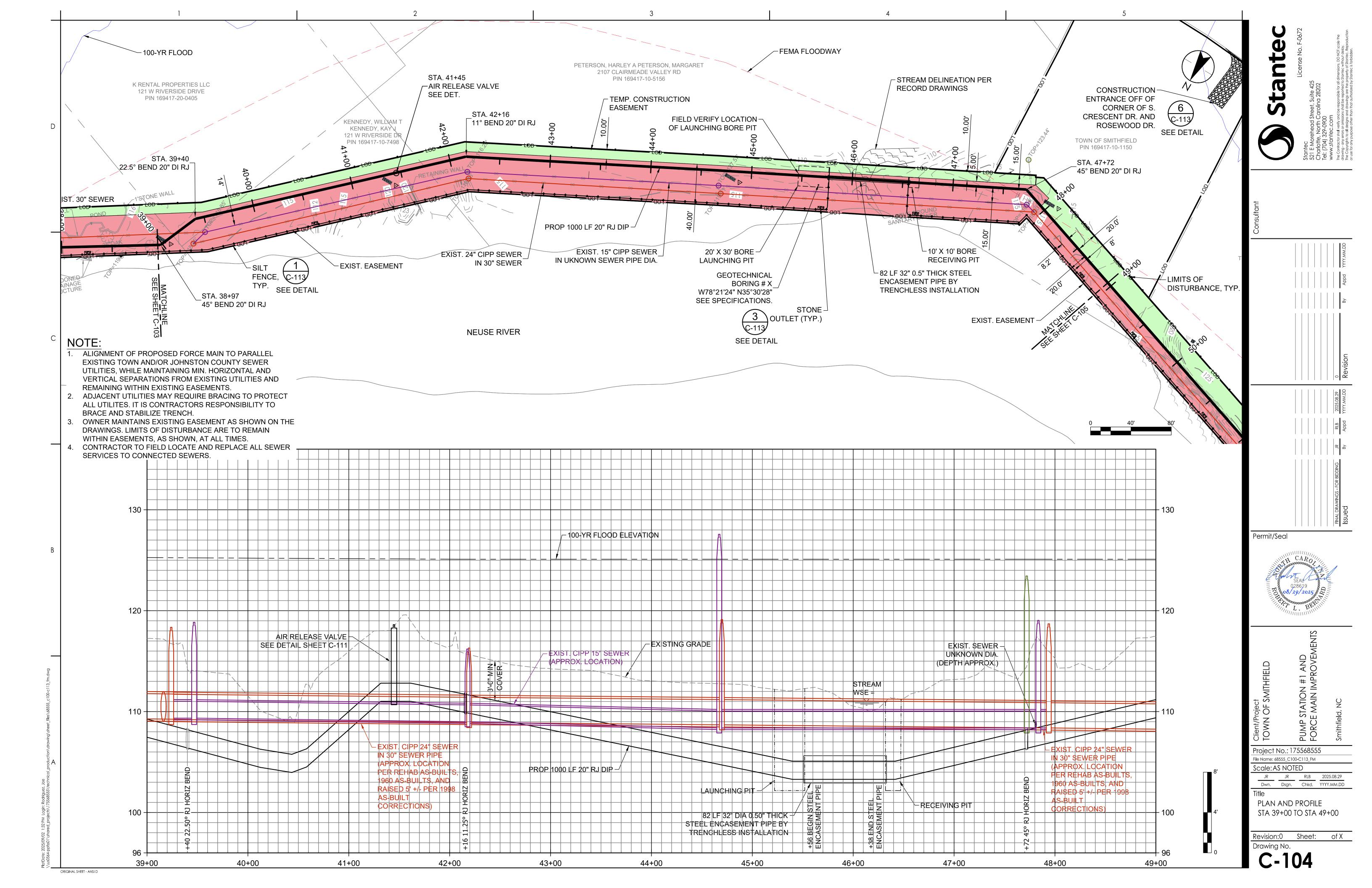
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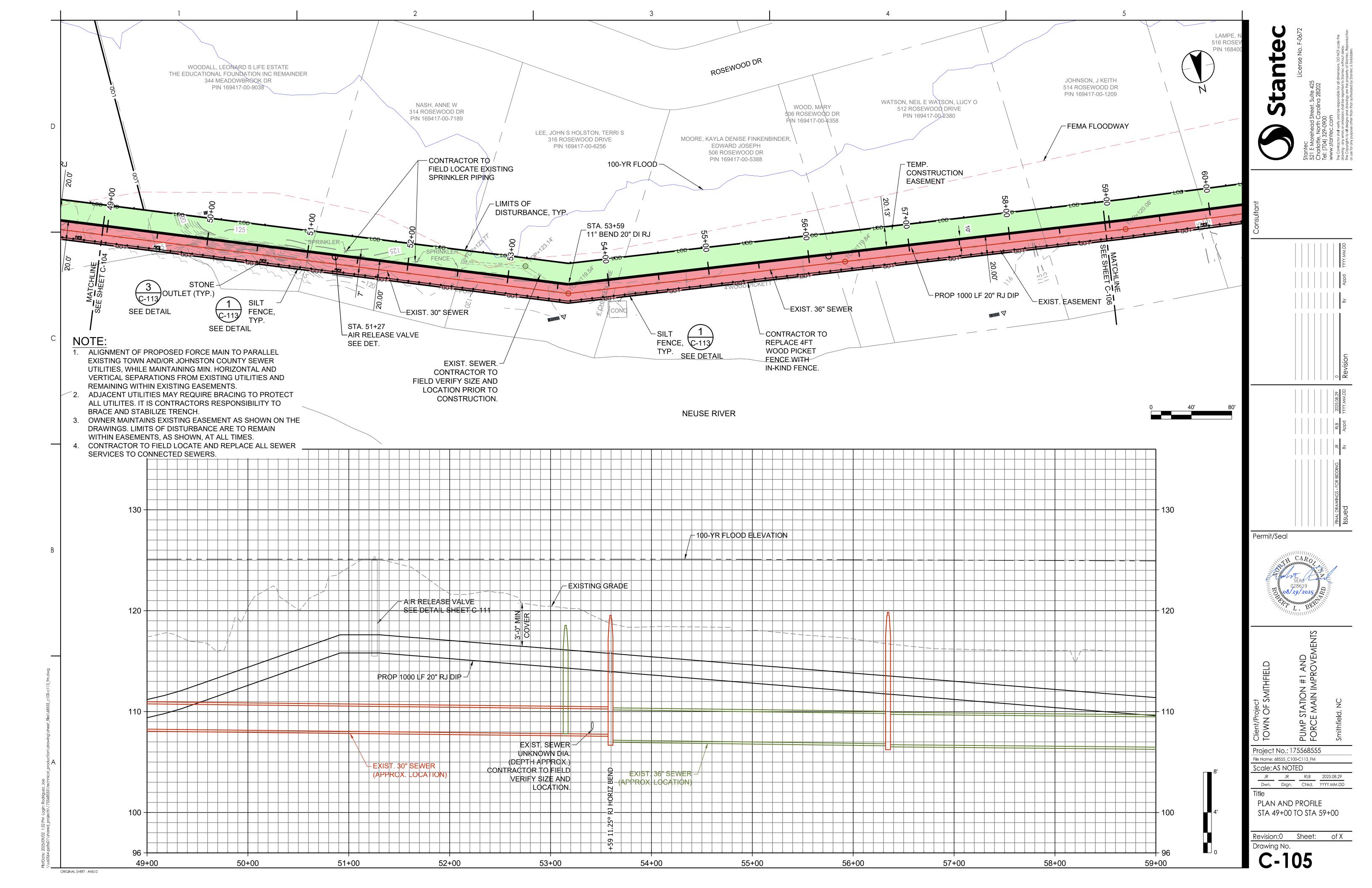


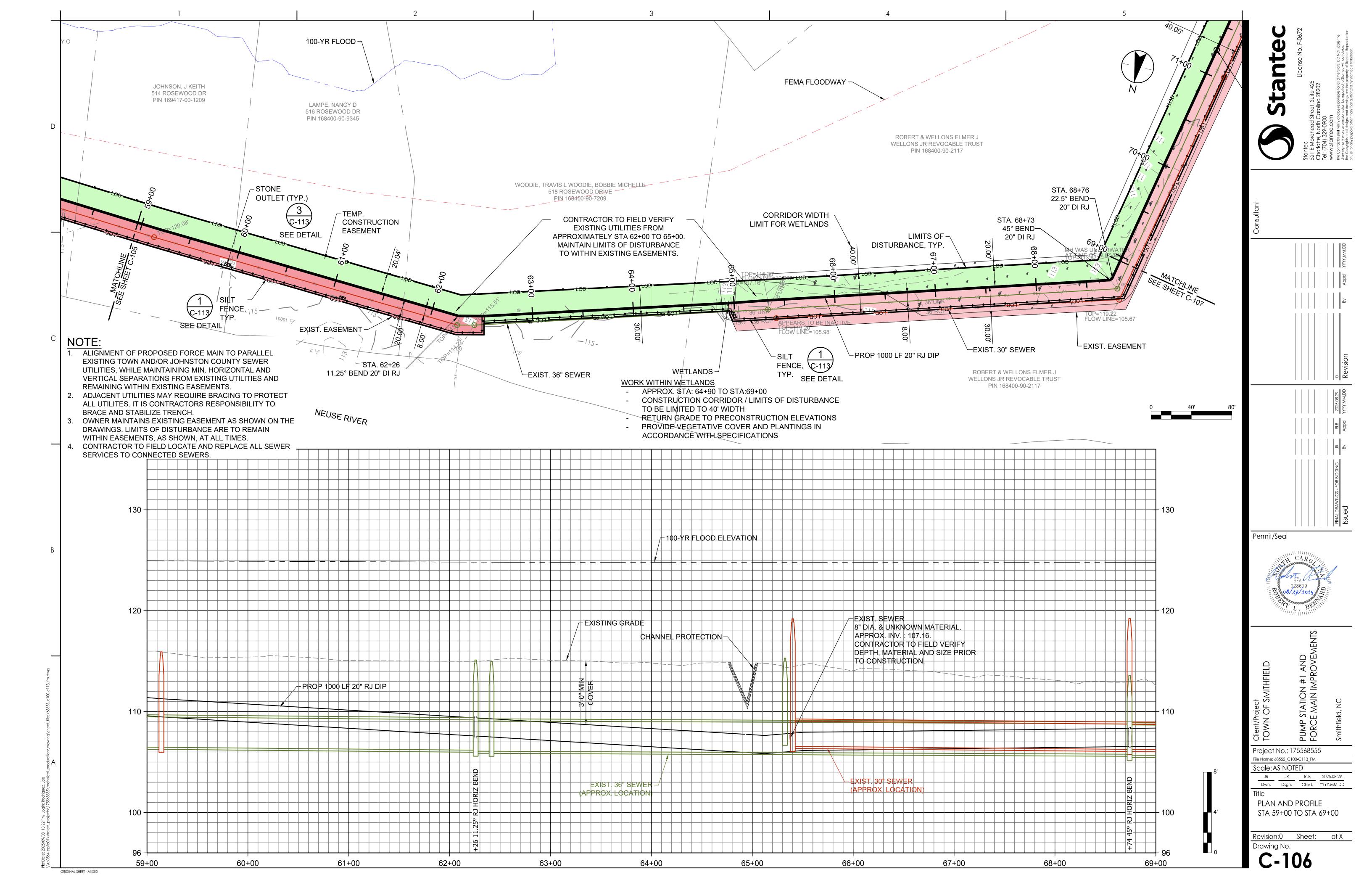


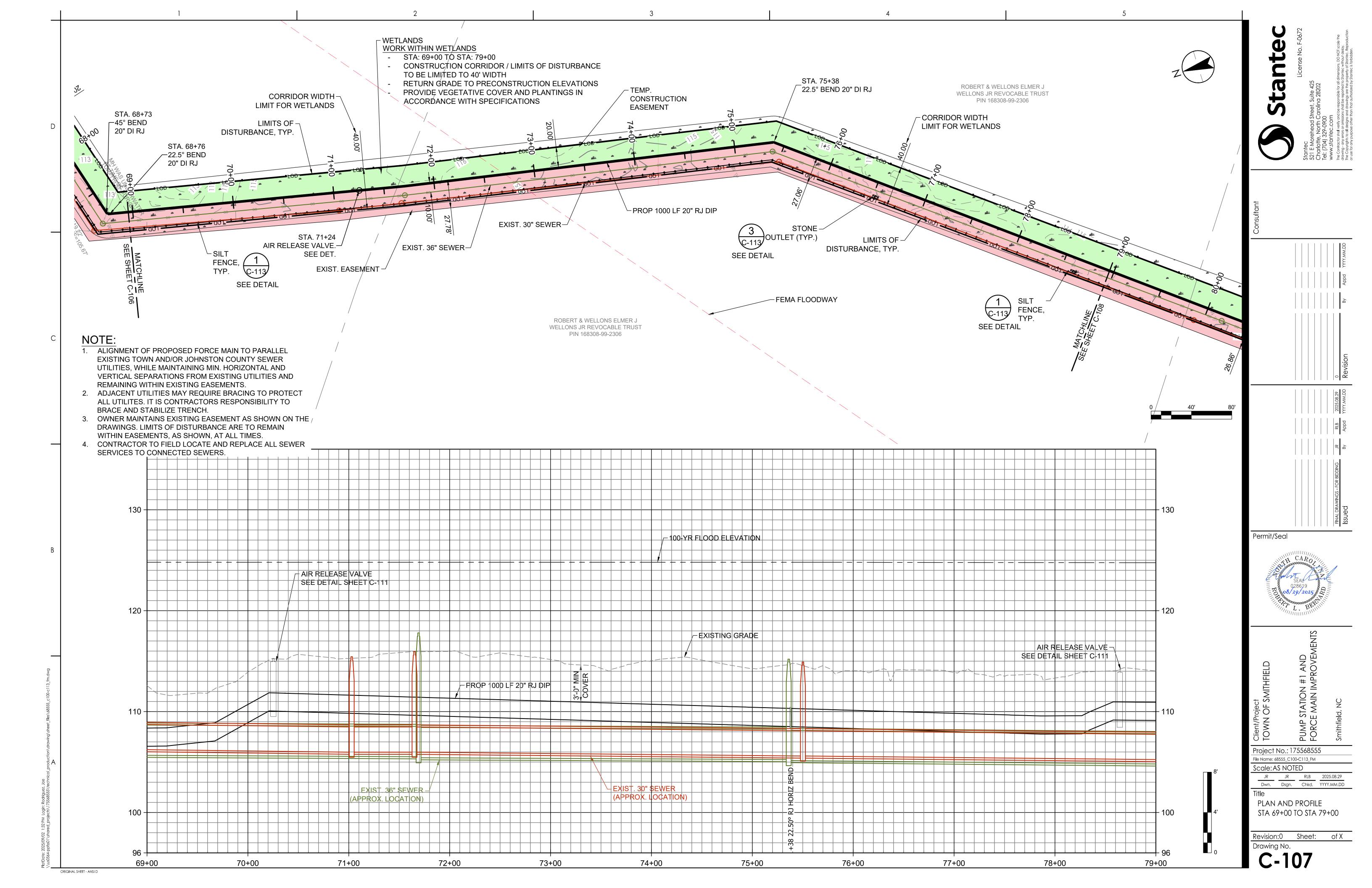


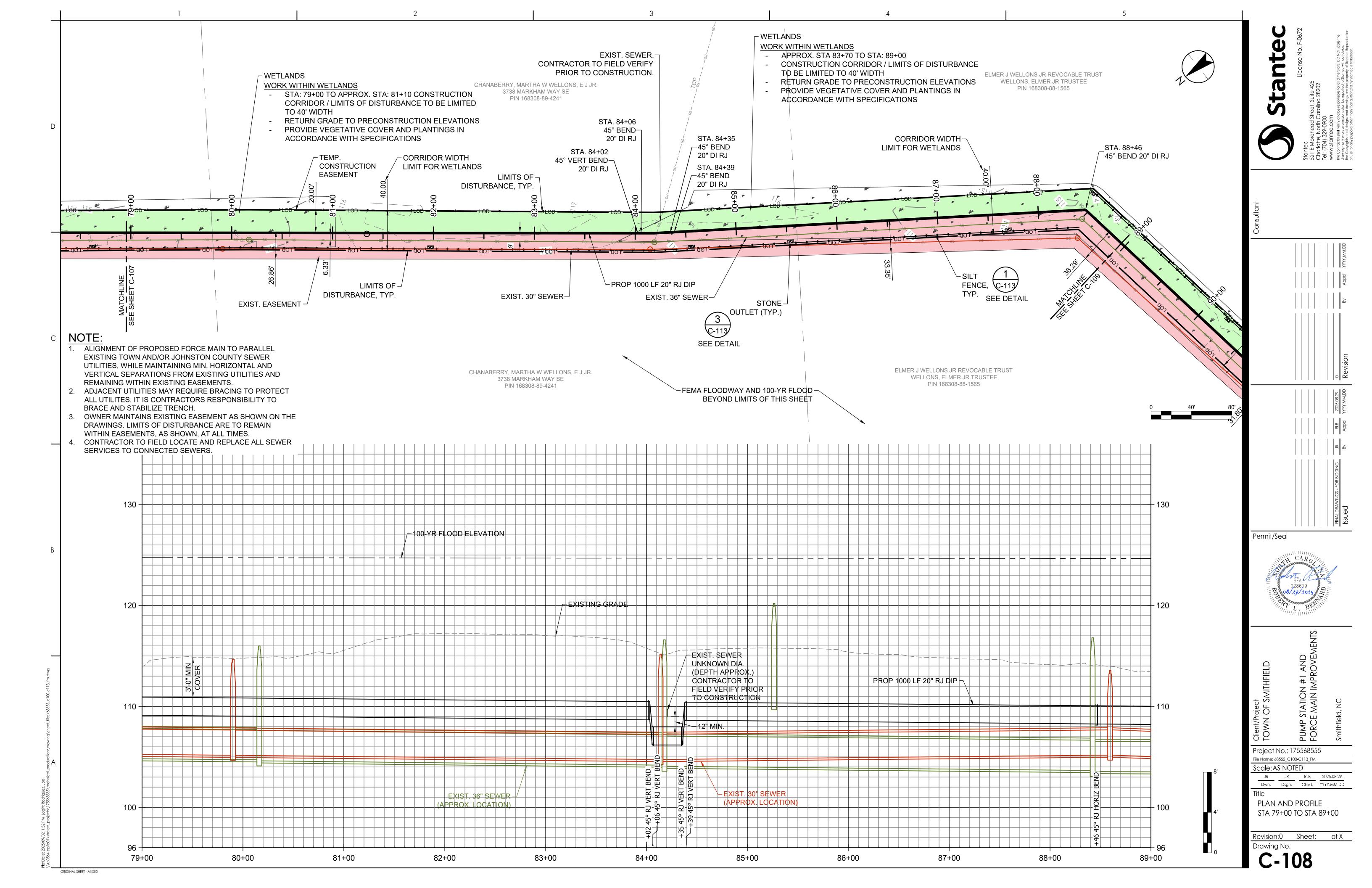


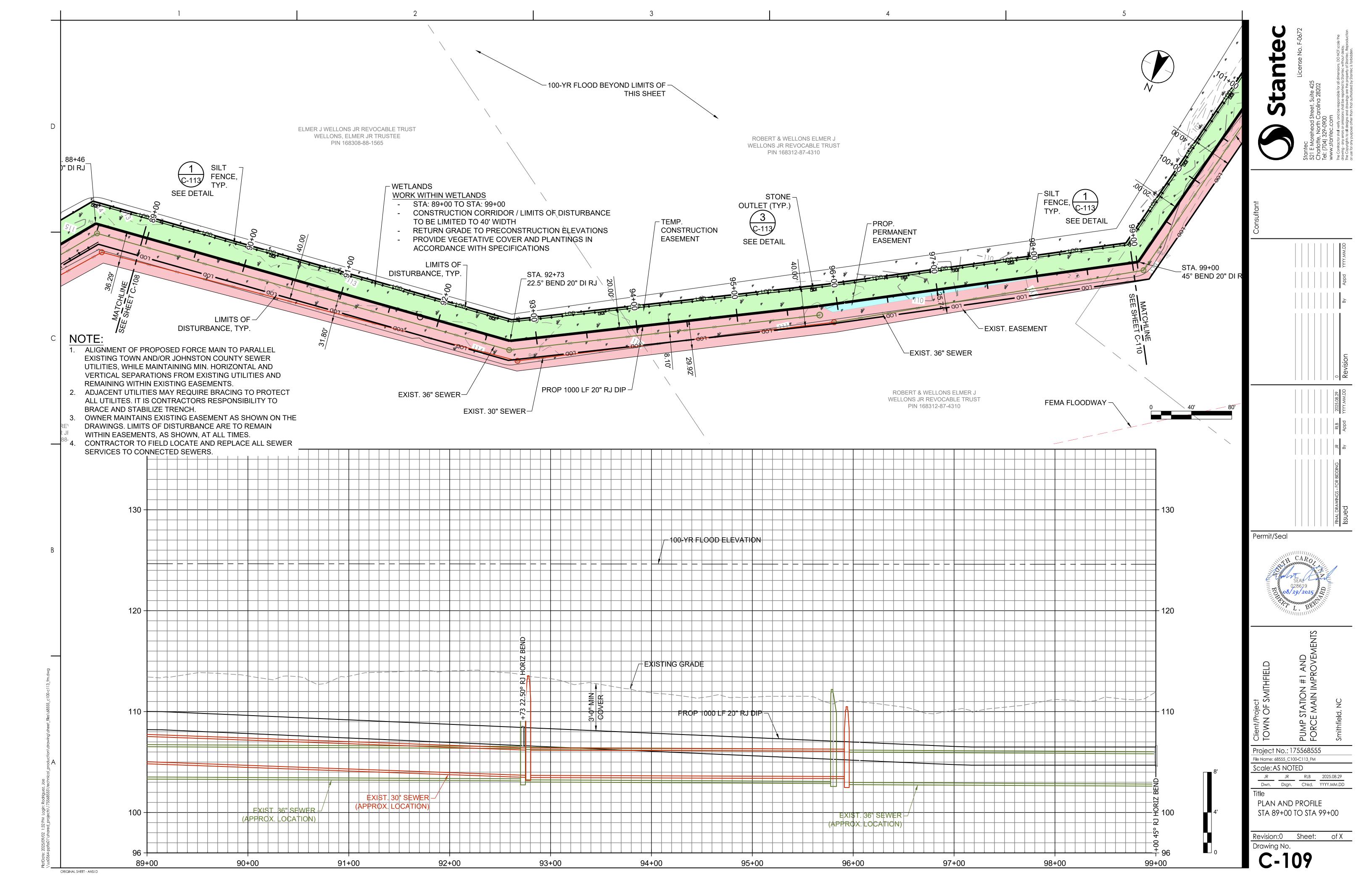


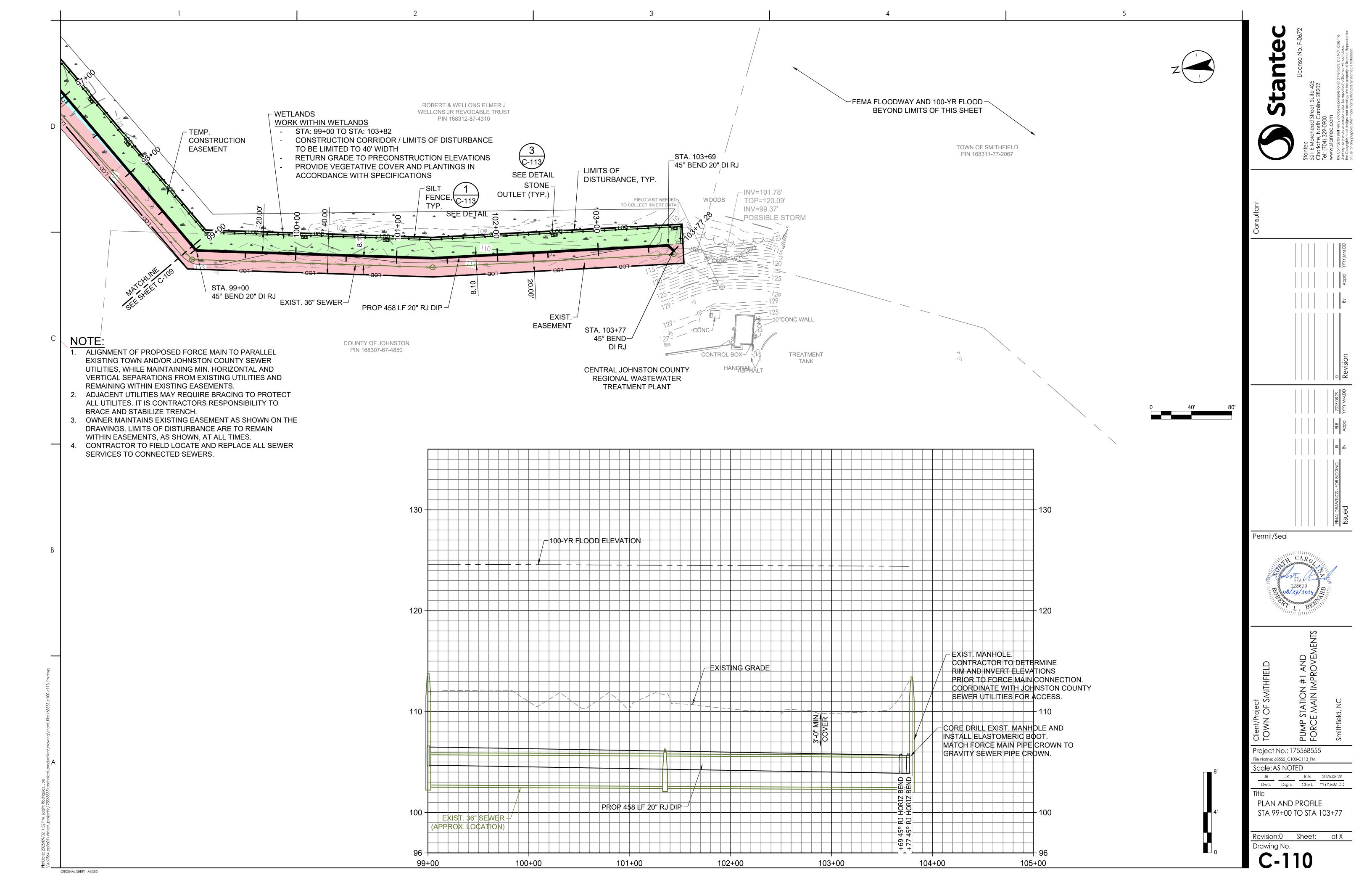


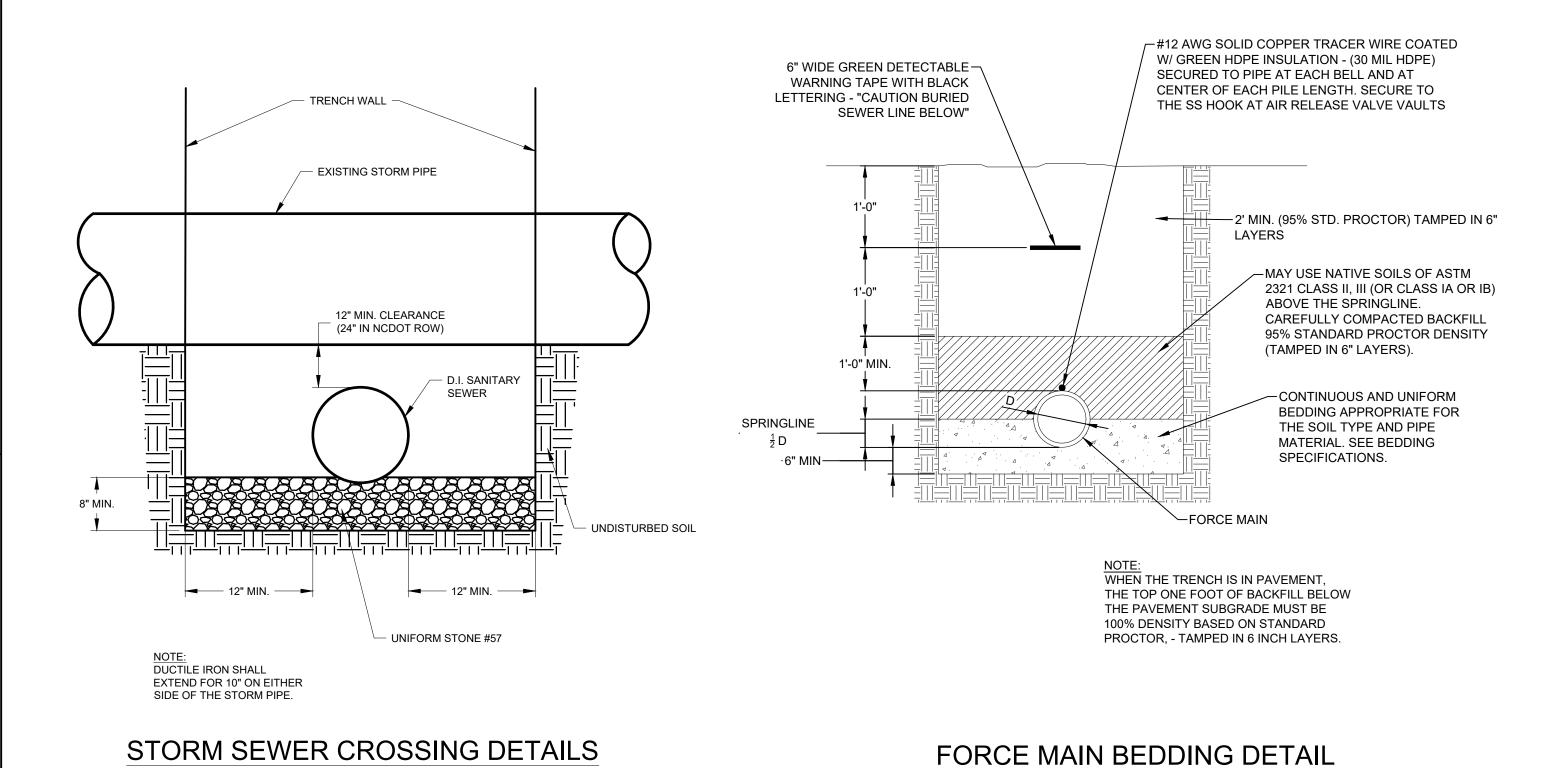




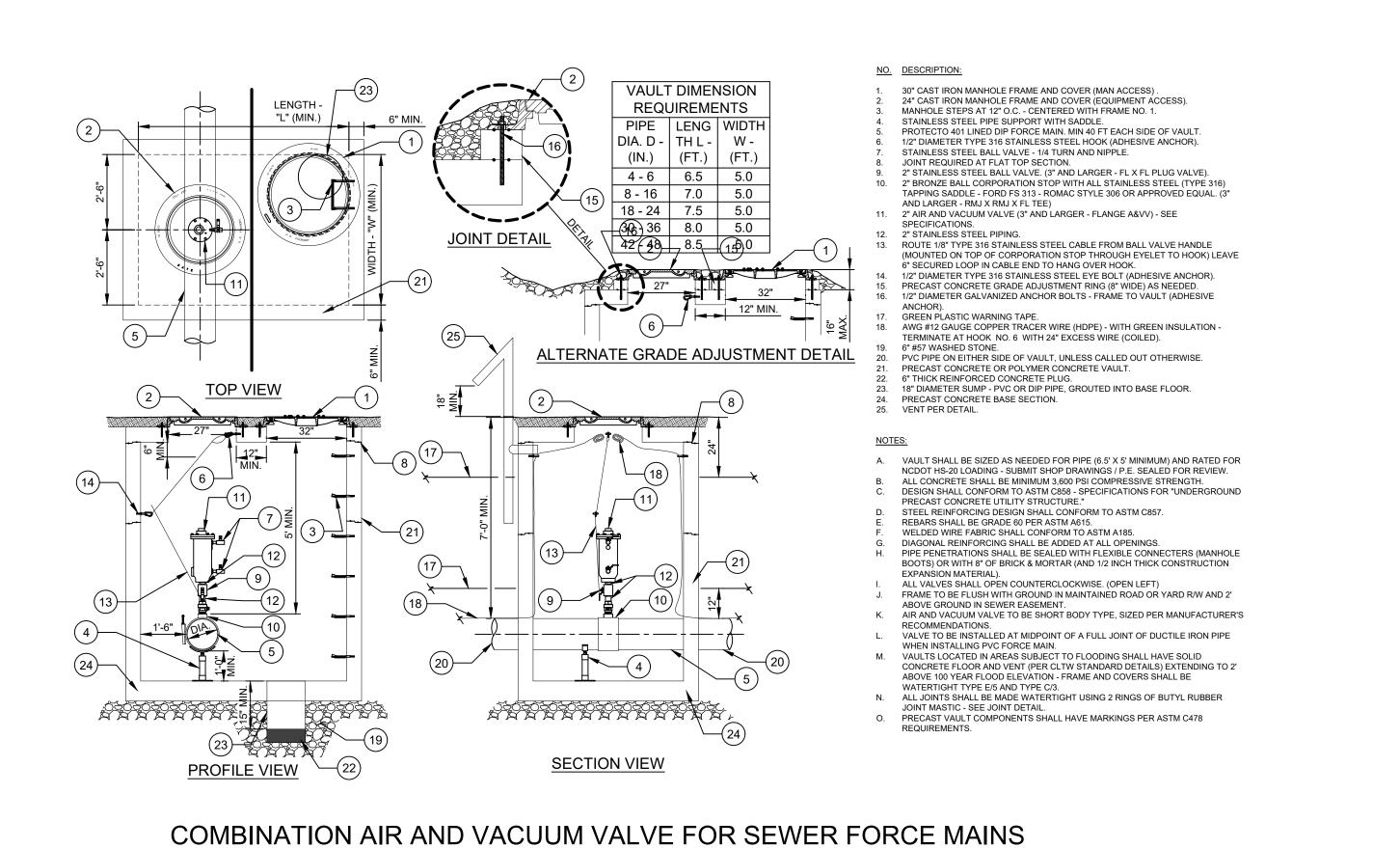


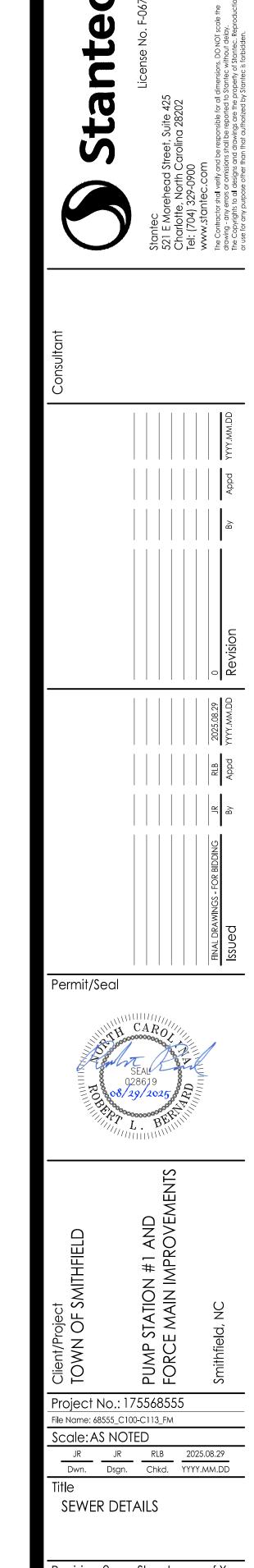






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ORIGINAL SHEET - ANSI D

3. NEAREST RECEIVING WATERBODY: NEUSE RIVER

4. PREDOMINANT SOIL TYPE: CHEWACLA LOAM (Ch), BELONGING TO HYDROLOGIC SOIL GROUP B/D, PER USDA WEB SOIL SURVEY FOUND AT HTTPS://WEBSOILSURVEY.NCRS.USDA.GOV/.

FLOOD ZONE

5.1. ZONE AE IN SPECIAL FLOOD HAZARD AREAS, ZONE X IN OTHER FLOOD AREAS PER FEMA FLOOD MAPS 3720169400K, 3720168400K, AND 3720168200L EFFECTIVE 06/20/2018

EROSION AND SEDIMENT CONTROL NOTES

- PROVISIONS TO PREVENT EROSION OF THE SOIL FROM THE SITE SHALL CONFORM TO THE REQUIREMENTS OF THE "NORTH CAROLINA SEDIMENTATION POLLUTION CONTROL ACT OF 1973" AS SHOWN HEREIN AND STIPULATED IN THE "EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL" BY VARIOUS AGENCIES WITHIN THE STATE OF NORTH CAROLINA. INSTALLATION SHALL BE IN A MANNER SO AS TO MINIMIZE EROSION OF THE DISTURBED AREAS AND PREVENT SEDIMENT FROM LEAVING THE SITE.
- 2. TEMPORARYAND PERMANENT VEGETATIVE COVER SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF CHAPTER 6, SECTIONS 10 AND 11 OF THE PLANNING AND DESIGN MANUAL AS DESCRIBED IN NOTE NO.1 ABOVE.
- 3. EROSION CONTROL DEVICES ARE TO BE INSTALLED IN ACCORDANCE WITH THE APPROVED PLANS. THE PLANS AND DETAILS ARE BASED ON THE NC EROSION AND SEDIMENT PLANNING DRAWINGS, AND THE PROJECT SPECIFICATIONS.
- 4. ALL SEDIMENT AND EROSION CONTROL MEASURES ARE TO BE INSPECTED BY THE CONTRACTOR AT LEAST ONCE EVERY SEVEN (7) DAYS AND AFTER ANY STORM EVENT OF 1" OR GREATER PRECIPITATION DURING 24 HOUR PERIOD. THE CONTRACTOR SHALL PROVIDE THE ENGINEER AND OWNER WITH COPIES OF HIS INSPECTION REPORT AND SHALL HAVE 5 DAYS TO REPAIR AND/OR CORRECT DEFICIENCIES. DAMAGED OR INNEFECTIVE DEVICES SHALL BE REPAIRED OR REPLACED AS NECESSARY
- ALL DISTURBED AREAS WHERE CONSTRUCTION HAS TEMPORARILY OR PERMANENTLY CEASED SHALL BE STABILIZED WITH GRASSING AS SOON AS PRACTICABLE AND IN NO CASE EXCEED THE TIME AS DESCRIBE IN THE "STABILIZATION TIMEFRAME", ATTACHED TO THIS SHEET (PER NPDES STORMWATER GENERAL PERMIT NCG010000).
- ALL CONSTRUCTION WORK SHALL BE IN COMPLIANCE WITH REGULATIONS OF THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) STORM WATER GENERAL PERMIT (NCGO10000). THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONDUCTING, RECORDING, AND SUBMITTING THE REQUIRED SELF-INSPECTION REPORTS TO THE APPROPRIATE AGENCIES. PERMIT DOCUMENTATION CAN BE FOUND IN THE PROJECT SPECIAL CONDITIONS.
- 7. 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, AS DETERMINED BY THE ENGINEER OR EROSION CONTROL
- INSPECTOR 8. THE CONTRACTOR SHALL TAKE NECESSARY ACTION TO MINIMIZE TRACKING OF MUD ONTO PAVED ROADWAY SURFACE FROM CONSTRUCTION AREAS, INCLUDING BUT NOT LIMITED TO EXTENDING THE MUD MAT. THE CONTRACTOR SHALL REMOVE MUD AND SOIL FROM THE PAVEMENT ON A DAILY BASIS. NO ADDITIONAL PAYMENT WILL BE MADE.
- 9. THE CONTRACTOR SHALL SCHEDULE AND PERFORM A CONTINUOUS CONSTRUCTION OPERATION AT ALL DRAINAGE DITCHES AND STREAM CROSSINGS IN ORDER TO MINIMIZE THE TIME WORKING IN THE DRAINAGE OR STREAM.
- 10. IF FILL MATERIALS ARE TO BE BROUGHT ON TO THIS PROJECT OR WASTE MATERIALS ARE TO BE TAKEN FROM THIS PROJECT, THIS INFORMATION MUST BE DISCLOSED AND SHOWN ON THE EROSION CONTROL AND GRADING PLAN. BORROWED AREAS AND DUMP SITES ARE CONSIDERED TO BE PART OF THIS PROJECT AND THE OWNER IS RESPONSIBLE FOR STABILIZATION AND EROSION CONTROL MEASURES AT THESE SITES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARATION AND APPROVAL OF THE EROSION CONTROL PLAN FOR ANY OFF SITE BORROW OR DUMP SITES.
- 11. USE CONSTRUCTION ROAD STABILIZATION WHERE APPLICABLE AT WORK ZONE ENTRANCES/EXITS.
- 12. THE ANGLE FOR GRADED SLOPES AND FILLS SHALL BE NO GRATER THAN THE ANGLE THAT CAN BE RETAINED BY VEGETATIVE COVER OR OTHER ADEQUATE EROSION CONTROL DEVICES STRUCTURES. IN ANY EVENT. SLOPES LET EXPOSED WILL. WITHIN 7 OR 14 CALENDAR DAYS OF COMPLETION OF ANY PHASE OF GRADING, BE PLANTED OR OTHERWISE PROVIDED WITH TEMPORARY GROUND COVER, DEVICES OR STRUCTURES SUFFICIENT TO RESTRAIN EROSION. PERMANENT GROUND COVER WILL BE PROVIDED FOR ALL DISTURBED AREAS WITHIN 15 WORKING DAYS OR NO MORE THAN 90 CALENDAR DAYS (WHICHEVER IS SHORTER) FOLLOWING COMPLETION OF CONSTRUCTION.
- 13. SLOPES STEEPER THAN 3:1 SHALL BE STABILIZED AS NECESSARY WITH SYNTHETIC OR VEGETATIVE MATS IN ADDITION TO GRASSING/HYDRO SEEDING TO ENSURE THEIR INTEGRITY. TEMPORARY SLOPE DRAINS SHALL BE INSTALLED AS NECESSARY DURING CONSTRUCTION WHERE SAID SLOPES EXCEED 8 VERTICAL FEET. TEMPORARY BERMS MAY BE NEEDED UNTIL THE SLOPE IS BROUGHT TO GRADE.
- 14. TEMPORARY DIVERSION BERMS/DITCHES SHALL 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. 15. LIMITS OF DISTURBANCE SHALL BE THE ADJACENT PUBLIC ROAD RIGHT-OF-WAY AND/OR THE PROPOSED SEWER EASEMENT AS SHOWN ON THE PLANS.
- 16. SILT FENCE OUTLETS SHALL BE CONSTRUCTED IN LOW LYING AREAS AND AREAS OF CONCENTRATED FLOW ALONG THE LENGTH OF TEMPORARY SILT FENCING. IF LOCATIONS ARISE DURING THE COURSE OF CONSTRUCTION WHERE THE TEMPORARY SILT FENCE BECOMES OVERWHELMED WITH FLOW AND FAILS, THE CONTRACTOR SHALL REPAIR THESE AREAS WITH SILT FENCE OUTLETS.
- 17. WHERE SEDIMENT IS TRANSPORTED ONTO A PAVED OR PUBLIC ROAD SURFACE. THE ROAD SURFACE SHALL BE CLEANED IMMEDIATELY AND CLEANED THOROUGHLY AT THE END OF EACH DAY. SEDIMENT SHALL BE REMOVED FROM THE ROADS BY SHOVELING OR SWEEPING AND TRANSPORTED TO A SEDIMENT CONTROL DISPOSAL AREA. STREET WASHING SHALL BE ALLOWED ONLY AFTER SEDIMENT IS REMOVED IN THIS MANNER
- 18. INSTALL COIR MATTING WITHIN DRAINAGE LIMITS OF DISTURBED DRAINAGE DITCHES. COIR FIBER MATTING SHALL BE MONITORED AND REPAIRED AS NECESSARY UNTIL GROUND COVER IS ESTABLISHED. COIR FIBER MATTING SHALL BE LAID IN SUCH A WAY THAT GOOD CONTACT WITH GROUND IS ESTABLISHED. IF GOOD CONTACT IS NOT ESTABLISHED OR EROSION OCCURS UNDER THE COIR FIBER MATTING, THEN THE BANK SHALL BE REPAIRED AND THE MATTING RE-SECURED.

EROSION CONTROL MAINTENANCE PLAN

- 1. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED CONTINUALLY, RELOCATED WHEN AND AS REQUIRED AND SHALL BE CHECKED AFTER EVERY RAINFALL SEEDED AREAS SHALL BE CHECKED REGULARLY AND SHALL BE WATER, FERTILIZED AND MULCHED AS REQUIRED TO OBTAIN A DENSE STAND OF GRASS. ANY REPAIRS WILL BE MADE IMMEDIATELY TO MAINTAIN ALL PRACTICES AS DESIGNED.
- 2. WHEN A CONSTRUCTION ENTRANCE HAS BEEN COVERED WITH SOIL OR HAS BEEN PUSHED INTO THE SOIL BY CONSTRUCTION TRAFFIC. IT SHALL BE REPLACED WITH A DEPTH OF STONE EQUAL TO THAT OF THE ORIGINAL APPLICATION OR OTHERWISE REINSTALLED PER THE ORIGINAL APPLICATION.
- ALL DRAINAGE INLETS DOWN SLOPE OF THE CONSTRUCTION WORK AREA SHALL PROTECTED FROM SILTATION. INEFFECTIVE PROTECTION DEVICES SHALL BE LAID IN SUCH A WAY THAT GOOD CONTACT WITH THE GROUND IS ESTABLISHED. IF GOOD CONTACT IS NOT ESTABLISHED OR EROSION OCCURS UNDER THE COIR FIBER MATTING, THEN THE BANK SHALL BE REPAIRED AND THE MATTING RESECURED.
- 4. COIR FIBER MATTING SHALL BE MONITORED AND REPAIRED AS NECESSARY UNTIL GROUND COVER IS ESTABLISHED. COIR FIBER MATTING SHALL BE LAID IN SUCH A WAY THAT GOOD CONTACT WITH THE GROUND IS ESTABLISHED. IF GOOD CONTACT IS NOT ESTABLISHED OR EROSION OCCURS UNDER THE COIR FIBER MATTING, THEN THE BANK SHALL BE REPAIRED AND THE MATTING RESECURED.
- 5. SEDIMENT SHALL BE REMOVED FROM BEHIND THE SILT FENCE WHEN IT REACHED 0.5 FEET DEEP AT THE SILT FENCE. SHOULD THE SILT FENCE FABRIC COLLAPSE, TEAR, DECOMPOSE OR BECOME INEFFECTIVE. REPLACE IT PROMPTLY AND REMOVE SEDIMENT DEPOSITS AS NECESSARY TO REDUCE PRESSURE ON THE FENCE. AVOID UNDERMINING SILT FENCE DURING CLEAN OUT.
- CHECK TEMPORARY ROCK SILT CHECK FOR EROSION, PIPING AND ROCK DISPLACEMENT WEEKLY AND AFTER EVERY RAIN EVENT. REMOVE SEDIMENT DEPOSITS, STRAW, LIMBS AND DEBRIS FROM BEHIND TEMPORARY ROCK SILT CHECK AS NECESSARY TO PREVENT CHANNEL CLOGGING. ADD STONES AS NECESSARY TO MAINTAIN DESIGN HEIGHT.
- 7. ALL TEMPORARY ROCK CHECK DAMS SHALL BE CONSTRUCTED WITH A MAXIMUM 2(H): 1(V) SLOPE.
- 8. ALL IMPERVIOUS DIKES SHALL BE CONSTRUCTED FROM NON-ERODIBLE MATERIALS (E.G. RIP RAP, SANDBAGS, CONCRETE AND ETC.) IN ACCORDANCE WITH DETAILS PROVIDED.
- 9. SEDIMENT REMOVED FOR ANY TEMPORARY SOIL EROSION AND SEDIMENT CONTROL MEASURE DURING REGULAR MAINTENANCE SHALL BE INCORPORATED BACK INTO THE EARTHWORK AS FILL ON THE SITE. SOIL SEDIMENT MATERIAL SHALL BE DISTURBED ON-SITE WITHOUT CHANGING DRAINAGE PASTERNS.
- 10. SEDIMENT SHALL BE REMOVED FROM A SEDIMENT TRAP WHEN THE CAPACITY HAS BEEN REDUCED BY 50% FROM THE DESIGN CAPACITY.
- 11. AFFECTED ROADS SHALL BE CLEANED DAILY OR MORE FREQUENTLY IF OTHERWISE REQUIRED BY THE ENGINEER OR OWNER.
- 12. CONSTRUCTION EQUIPMENT AND VEHICLES WITH THE WORK AREA SHALL BE PROPERLY MAINTAINED AND INSPECTED, PARTICULARLY FOR IDENTIFICATION AND REPAIR OF VEHICLES LEAKING PETROLEUM PRODUCTS THAT COULD ENTER ADJACENT STORMWATER DRAINAGE FACILITIES.
- 13. ALL SEEDED AREA SHALL BE FERTILIZED, RESEEDED, AND MULCHED AS NECESSARY TO MAINTAIN A VIGOROUS, DENSE VEGETATIVE COVER, THROUGH THE ONE-YEAR WARRANTY PERIOD.

PLANNED EROSION AND

SEDIMENT CONTROL MEASURES

- 1. SILT FENCE: SILT FENCE SHALL BE INSTALLED AND LOCATED ALONG THE PROPOSED LIMITS OF DISTURBANCE, AROUND THE SOIL STOCKPILE AREAS AND AS DIRECTED BY
- SURFACE STABILIZATION: SURFACE STERILIZATIONS WILL BE ACCOMPLISHED WITH VEGETATION, AND MULCH, MATTING, AND EROSION CONTROL STONE AS INDICATED ON THE PLANS
- TEMPORARY CONSTRUCTION ENTRANCE: TEMPORARY STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED FOR ACCESS TO AND FROM THE CONSTRUCTION SITE. WASH-DOWN WATER AND RUNOFF FROM THE CONSTRUCTION ENTRANCES SHALL BE DIRECTED TO APPROPRIATE SOIL EROSION AND SEDIMENT CONTROL MEASURES.
- STAGING AND LAYDOWN AREAS: STAGING AND LAYDOWN AREAS FOR VEHICLES. EQUIPMENT. AND CONSTRUCTION MATERIALS. SHALL BE LOCATED ON STABILIZED PORTIONS OF THE SITE. VEHICLES AND EQUIPMENT SHALL BE WASHED DOWN IN STABILIZED AREAS PRIOR TO EXISTING THE SITE.
- 5. DUST CONTROL: SHOULD EXCESSIVE DUST BE GENERATED, IT SHALL BE
- CONTROLLED BY SPRINKLING. 6. DEWATERING: TEMPORARY DEWATERING PRACTICES SHALL BE USED TO PREVENT PONDING OF RAIN WATER OR GROUNDWATER DURING CONSTRUCTION OF EXCAVATED AREA SUCH AS LAUNCH PITS, RECEIVING PITS, AND OTHER AREAS WHERE THE WATER TABLE IS EXPOSED DUE TO EXCAVATION.

SEQUENCE OF CONSTRUCTION

- OBTAIN PLAN APPROVAL AND OTHER APPLICABLE PERMITS.
- HOLD PRECONSTRUCTION CONFERENCE AT LEAST ONE WEEK PRIOR TO STARTING CONSTRUCTION. CONTRACTOR SHALL PRESENT EROSION CONTROL PLAN FOR ALL STAGING, STOCKPILE, PARKING AND ACCESS AREAS NOT SHOWN ON PLAN AT THIS
- 3. FLAG THE WORK LIMITS AND BUFFER AREA FOR PROTECTION. MARK ITEMS TO BE PROTECTED SUCH AS TREES AND EXISTING UTILITIES THAT ARE TO REMAIN.
- 4. THE CONTRACTOR SHALL OBSERVE THE PROJECT SEQUENCE SHOWN ON THE PLANS. THE CONTRACTORS SHALL MAINTAIN CAREFUL SCHEDULING AND PERFORMANCE TO INSURE THAT LAND STRIPPED OF ITS NATURAL COVER IS EXPOSED IN SMALL AREAS AND COVERED AS SOON AS PRACTICAL.
- INSTALL TEMPORARY GRAVEL CONSTRUCTION ENTRANCES/EXITS.
- CLEAR AND GRUB AS NECESSARY TO INSTALL SEDIMENT CONTROL DEVICES & TRAPS. STOCKPILE MATERIALS AND EQUIPMENT REQUIRED FOR CONSTRUCTION, AND INSTALL CULVERTS AND OUTLET PROTECTION, INSTALL SEDIMENT FENCE AS NEEDED.
- BEGIN SITE CLEARING, EARTHWORK, AND OTHER CONSTRUCTION OPERATIONS ONLY AFTER ALL EROSION CONTROL DEVICES ARE INSTALLED AND AREAS DOWNSTREAM OF WORK LIMITS ARE PROTECTED.
- 9. EXISTING GRADE IS TO BE MAINTAINED FOR THE SITE UNLESS OTHERWISE NOTED ON THE PLANS. WITHIN 15 DAYS OF COMPLETING A SECTION OF THE PROJECT WHERE NO FURTHER LAND DISTURBANCE IS NECESSARY, CLOSE OUT, SEED AND STABILIZE AREA TO PREVENT FURTHER EROSION. SEED ACCORDING TO SEED SPECIFICATIONS.
- 10. ALL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE INSPECTED WEEKLY AND AFTER RAINFALL EVENTS. NECESSARY REPAIRS WILL BE MADE IMMEDIATELY.
- 11. AFTER SITE IS STABILIZED, REMOVE ALL TEMPORARY MEASURES AND INSTALL PERMANENT VEGETATION ON THE DISTURBED AREAS.

SEEDING SCHEDULE

GENTLE SLOPES

STEEP SLOPES

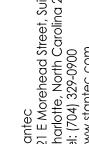
SEEDING MIXTURE	40 LBS / ACRE GERMAN MILLET 80 LBS / ACRE TALL FESCUE	120 LBS / ACRE RYE (GRAIN) 80 LBS / ACRE TALL FESCUE
SEEDING DATES	MAY 1 - AUGUST 15 REFERTLILZE IF GROWTH IS NOT FULLY ADEQUATE APPLY 4000 LBS / ACRE STRAW OR EQUIVALENT HYDROSEEDING	OCTOBER 25 - DECEMBER 30 BETWEEN DECEMBER 30 - FEBRUARY 15, ADD 500 LBS / ACRE OF ANNUAL KOBE LESPEDEZA APPLY 4000 LBS / ACRE STRAW OR EQUIVALENT HYDROSEEDING
SEEDING AMENDMENTS	APPLY LIME AND FERTILIZER PER SOIL TESTS OR 2000 LBS / ACRE LIMESTOME AND 750 LBS / ACRE 10-10-10 FERTILIZER	APPLY LIME AND FERTILIZER PER SOIL TESTS OR 2000 LBS / ACRE LIMESTOME AND 750 LBS / ACRE 10-10-10 FERTILIZER

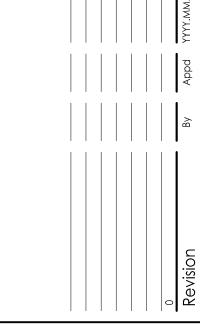
TEMPORARY SEEDING SCHEDULE

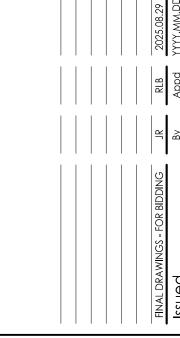
GENTLE SLOPES

STEEP SLOPES

SEEDING MIXTURE	40 LBS / ACRE GERMAN MILLET 80 LBS / ACRE TALL FESCUE	120 LBS / ACRE RYE (GRAIN) 80 LBS / ACRE TALL FESCUE
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Permit/Seal



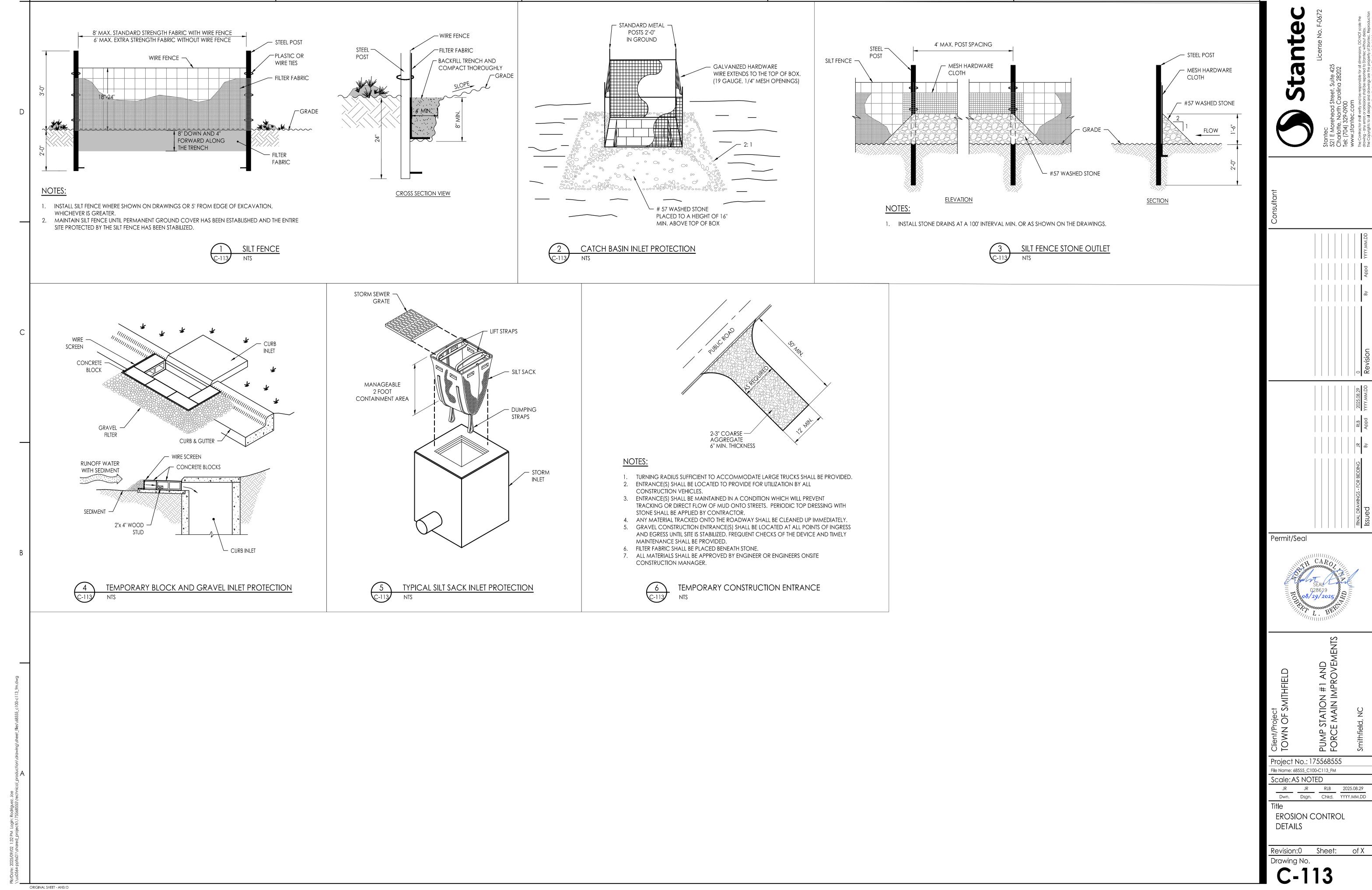
Project No.: 175568555 File Name: 68555 C100-C113 FM Scale: AS NOTED

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EROSION CONTROL NOTES

Revision:0 Sheet: of X Drawing No.

ORIGINAL SHEET - ANSI D



Implementing the details and specifications on this plan sheet will result in the construction activity being considered compliant with the Ground Stabilization and Materials Handling sections of the NCG01 Construction General Permit (Sections E and F, respectively). The permittee shall comply with the Erosion and Sediment Control plan approved by the delegated authority having jurisdiction. All details and specifications shown on this sheet may not apply depending on site conditions and the delegated authority having jurisdiction.

SECTION E: GROUND STABILIZATION

Required Ground Stabilization Timeframes			
Si	te Area Description	Stabilize within this many calendar days after ceasing land disturbance	Timeframe variations
(a)	Perimeter dikes, swales, ditches, and perimeter slopes	7	None
(b)	High Quality Water (HQW) Zones	7	None
(c)	Slopes steeper than 3:1	7	If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed
(d)	Slopes 3:1 to 4:1	14	-7 days for slopes greater than 50' in length and with slopes steeper than 4:1 -7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed
(e)	Areas with slopes flatter than 4:1	14	-7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed unless there is zero slope

Note: After the permanent cessation of construction activities, any areas with temporary ground stabilization shall be converted to permanent ground stabilization as soon as practicable but in no case longer than 90 calendar days after the last land disturbing activity. Temporary ground stabilization shall be maintained in a manner to render the surface stable against accelerated erosion until permanent ground stabilization is achieved.

GROUND STABILIZATION SPECIFICATION

Stabilize the ground sufficiently so that rain will not dislodge the soil. Use one of the techniques in the table below:

Temporary Stabilization

- Temporary grass seed covered with straw or other mulches and tackifiers
- Hydroseeding
- Rolled erosion control products with or without temporary grass seed
- Appropriately applied straw or other mulch
- Plastic sheeting

Permanent Stabilization

- Permanent grass seed covered with straw or other mulches and tackifiers
- Geotextile fabrics such as permanent soil reinforcement matting
- Hydroseeding
- Shrubs or other permanent plantings covered with mulch
- Uniform and evenly distributed ground cover sufficient to restrain erosion
- Structural methods such as concrete, asphalt or retaining walls
- Rolled erosion control products with grass seed

POLYACRYLAMIDES (PAMS) AND FLOCCULANTS

- Select flocculants that are appropriate for the soils being exposed during construction, selecting from the NC DWR List of Approved PAMS/Flocculants.
- 2. Apply flocculants at or before the inlets to Erosion and Sediment Control Measures.
- 3. Apply flocculants at the concentrations specified in the NC DWR List of Approved PAMS/Flocculants and in accordance with the manufacturer's instructions.
- 4. Provide ponding area for containment of treated Stormwater before discharging offsite.
- 5. Store flocculants in leak-proof containers that are kept under storm-resistant cover or surrounded by secondary containment structures.

EQUIPMENT AND VEHICLE MAINTENANCE

- 1. Maintain vehicles and equipment to prevent discharge of fluids.
- 2. Provide drip pans under any stored equipment.
- 3. Identify leaks and repair as soon as feasible, or remove leaking equipment from the project.
- 4. Collect all spent fluids, store in separate containers and properly dispose as hazardous waste (recycle when possible).
- Remove leaking vehicles and construction equipment from service until the problem has been corrected.
- 6. Bring used fuels, lubricants, coolants, hydraulic fluids and other petroleum products to a recycling or disposal center that handles these materials.

LITTER, BUILDING MATERIAL AND LAND CLEARING WASTE

- 1. Never bury or burn waste. Place litter and debris in approved waste containers.
- Provide a sufficient number and size of waste containers (e.g dumpster, trash receptacle) on site to contain construction and domestic wastes.
- 3. Locate waste containers at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
- 4. Locate waste containers on areas that do not receive substantial amounts of runoff from upland areas and does not drain directly to a storm drain, stream or wetland.
- 5. Cover waste containers at the end of each workday and before storm events or provide secondary containment. Repair or replace damaged waste containers.
- 6. Anchor all lightweight items in waste containers during times of high winds.
- 7. Empty waste containers as needed to prevent overflow. Clean up immediately if containers overflow.
- 8. Dispose waste off-site at an approved disposal facility.
- . On business days, clean up and dispose of waste in designated waste containers.

PAINT AND OTHER LIQUID WASTE

- 1. Do not dump paint and other liquid waste into storm drains, streams or wetlands.
- 2. Locate paint washouts at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
- 3. Contain liquid wastes in a controlled area.
- 4. Containment must be labeled, sized and placed appropriately for the needs of site.
- 5. Prevent the discharge of soaps, solvents, detergents and other liquid wastes from construction sites.

PORTABLE TOILETS

- Install portable toilets on level ground, at least 50 feet away from storm drains, streams or wetlands unless there is no alternative reasonably available. If 50 foot offset is not attainable, provide relocation of portable toilet behind silt fence or place on a gravel pad and surround with sand bags.
- 2. Provide staking or anchoring of portable toilets during periods of high winds or in high foot traffic areas.
- 3. Monitor portable toilets for leaking and properly dispose of any leaked material.

 Utilize a licensed sanitary waste hauler to remove leaking portable toilets and replace with properly operating unit.

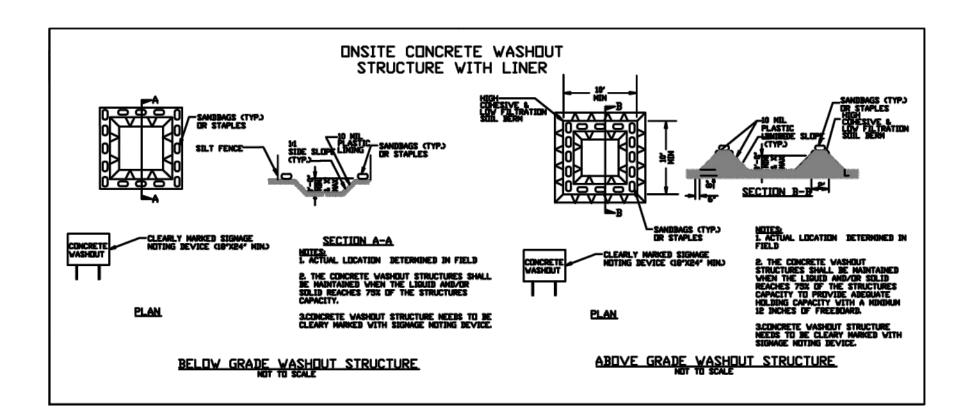
EARTHEN STOCKPILE MANAGEMENT

- 1. Show stockpile locations on plans. Locate earthen-material stockpile areas at least 50 feet away from storm drain inlets, sediment basins, perimeter sediment controls and surface waters unless it can be shown no other alternatives are reasonably available.
- Protect stockpile with silt fence installed along toe of slope with a minimum offset of five feet from the toe of stockpile.
- 3. Provide stable stone access point when feasible.

NCG01 GROUND STABILIZATION AND MATERIALS HANDLING

Stabilize stockpile within the timeframes provided on this sheet and in accordance with the approved plan and any additional requirements. Soil stabilization is defined as vegetative, physical or chemical coverage techniques that will restrain accelerated erosion on disturbed soils for temporary or permanent control needs.





CONCRETE WASHOUTS

- 1. Do not discharge concrete or cement slurry from the site.
- 2. Dispose of, or recycle settled, hardened concrete residue in accordance with local and state solid waste regulations and at an approved facility.
- 3. Manage washout from mortar mixers in accordance with the above item and in addition place the mixer and associated materials on impervious barrier and within lot perimeter silt fence.
- 4. Install temporary concrete washouts per local requirements, where applicable. If an alternate method or product is to be used, contact your approval authority for review and approval. If local standard details are not available, use one of the two types of temporary concrete washouts provided on this detail.
- 5. Do not use concrete washouts for dewatering or storing defective curb or sidewalk sections. Stormwater accumulated within the washout may not be pumped into or discharged to the storm drain system or receiving surface waters. Liquid waste must be pumped out and removed from project.
- 6. Locate washouts at least 50 feet from storm drain inlets and surface waters unless it can be shown that no other alternatives are reasonably available. At a minimum, install protection of storm drain inlet(s) closest to the washout which could receive spills or overflow.
- 7. Locate washouts in an easily accessible area, on level ground and install a stone entrance pad in front of the washout. Additional controls may be required by the approving authority.
- 8. Install at least one sign directing concrete trucks to the washout within the project limits. Post signage on the washout itself to identify this location.
- 9. Remove leavings from the washout when at approximately 75% capacity to limit overflow events. Replace the tarp, sand bags or other temporary structural components when no longer functional. When utilizing alternative or proprietary products, follow manufacturer's instructions.
- 10. At the completion of the concrete work, remove remaining leavings and dispose of in an approved disposal facility. Fill pit, if applicable, and stabilize any disturbance caused by removal of washout.

HERBICIDES, PESTICIDES AND RODENTICIDES

- Store and apply herbicides, pesticides and rodenticides in accordance with label restrictions.
- Store herbicides, pesticides and rodenticides in their original containers with the label, which lists directions for use, ingredients and first aid steps in case of accidental poisoning.
- Do not store herbicides, pesticides and rodenticides in areas where flooding is
 possible or where they may spill or leak into wells, stormwater drains, ground water
 or surface water. If a spill occurs, clean area immediately.
- 4. Do not stockpile these materials onsite.

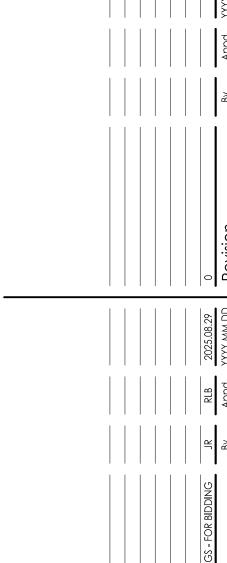
HAZARDOUS AND TOXIC WASTE

- 1. Create designated hazardous waste collection areas on-site.
- 2. Place hazardous waste containers under cover or in secondary containment.
- 3. Do not store hazardous chemicals, drums or bagged materials directly on the ground.

EFFECTIVE: 04/01/19

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www.stantec.com
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TOWN OF SMITHFIELD

PUMP STATION #1 AND

FORCE MAIN IMPROVEMENTS

Project No.: 175568555

File Name: 68555_C100-C113_FM

Scale: AS NOTED

JR JR RLB 2025.08.29
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Title

EROSION CONTROL

DETAILS

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	Frequency	
Inspect	(during normal	Inspection records must include:
	business hours)	
(1) Rain gauge	Daily	Daily rainfall amounts.
maintained in		If no daily rain gauge observations are made during weekend or
good working		holiday periods, and no individual-day rainfall information is
order		available, record the cumulative rain measurement for those un-
		attended days (and this will determine if a site inspection is
		needed). Days on which no rainfall occurred shall be recorded as
		"zero." The permittee may use another rain-monitoring device
		approved by the Division.
(2) E&SC	At least once per	Identification of the measures inspected,
Measures	7 calendar days	2. Date and time of the inspection,
	and within 24	3. Name of the person performing the inspection,
	hours of a rain	4. Indication of whether the measures were operating
	event ≥ 1.0 inch in	properly,
	24 hours	5. Description of maintenance needs for the measure,
		6. Description, evidence, and date of corrective actions taken.
(3) Stormwater	At least once per	Identification of the discharge outfalls inspected,
discharge	7 calendar days	2. Date and time of the inspection,
outfalls (SDCs)	and within 24	3. Name of the person performing the inspection,
	hours of a rain	4. Evidence of indicators of stormwater pollution such as oil
	event ≥ 1.0 inch in	sheen, floating or suspended solids or discoloration,
	24 hours	5. Indication of visible sediment leaving the site,
		6. Description, evidence, and date of corrective actions taken.
(4) Perimeter of	At least once per	If visible sedimentation is found outside site limits, then a record
site	7 calendar days	of the following shall be made:
	and within 24	Actions taken to clean up or stabilize the sediment that has left
	hours of a rain	the site limits,
	event ≥ 1.0 inch in	Description, evidence, and date of corrective actions taken, and
	24 hours	3. An explanation as to the actions taken to control future
/E) C.	6.1	releases.
(5) Streams or	At least once per	If the stream or wetland has increased visible sedimentation or a
wetlands onsite or offsite	7 calendar days and within 24	stream has visible increased turbidity from the construction
	hours of a rain	activity, then a record of the following shall be made:
(where		Description, evidence and date of corrective actions taken, and Property of the required reports to the appropriate Division
accessible)	event ≥ 1.0 inch in 24 hours	2. Records of the required reports to the appropriate Division
(6) Ground		Regional Office per Part III, Section C, Item (2)(a) of this permit.
(6) Ground stabilization	After each phase of grading	The phase of grading (installation of perimeter E&SC measures, clearing and grubbing, installation of storm
measures	en graumg	drainage facilities, completion of all land-disturbing
IIIEasul es		activity, construction or redevelopment, permanent
		ground cover).
		Documentation that the required ground stabilization
		measures have been provided within the required
		timeframe or an assurance that they will be provided as
		soon as possible.
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NOTE: The rain inspection resets the required 7 calendar day inspection requirement

PART III SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION B: RECORDKEEPING

1. E&SC Plan Documentation

The approved E&SC plan as well as any approved deviation shall be kept on the site. The approved E&SC plan must be kept up-to-date throughout the coverage under this permit. The following items pertaining to the E&SC plan shall be kept on site and available for inspection at all times during normal business hours.

Item to Document	Documentation Requirements
(a) Each E&SC measure has been installed and does not significantly deviate from the locations, dimensions and relative elevations shown on the approved E&SC plan.	Initial and date each E&SC measure on a copy of the approved E&SC plan or complete, date and sign an inspection report that lists each E&SC measure shown on the approved E&SC plan. This documentation is required upon the initial installation of the E&SC measures or if the E&SC measures are modified after initial installation.
(b) A phase of grading has been completed.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate completion of the construction phase.
(c) Ground cover is located and installed in accordance with the approved E&SC plan.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate compliance with approved ground cover specifications.
(d) The maintenance and repair requirements for all E&SC measures have been performed.	Complete, date and sign an inspection report.
(e) Corrective actions have been taken to E&SC measures.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate the completion of the corrective action.

2. Additional Documentation to be Kept on Site

In addition to the E&SC plan documents above, the following items shall be kept on the site and available for inspectors at all times during normal business hours, unless the Division provides a site-specific exemption based on unique site conditions that make this requirement not practical:

- (a) This General Permit as well as the Certificate of Coverage, after it is received.
- (b) Records of inspections made during the previous twelve months. The permittee shall record the required observations on the Inspection Record Form provided by the Division or a similar inspection form that includes all the required elements. Use of electronically-available records in lieu of the required paper copies will be allowed if shown to provide equal access and utility as the hard-copy records.

3. Documentation to be Retained for Three Years

All data used to complete the e-NOI and all inspection records shall be maintained for a period of three years after project completion and made available upon request. [40 CFR 122.41]

PART II, SECTION G, ITEM (4) DRAW DOWN OF SEDIMENT BASINS FOR MAINTENANCE OR CLOSE OUT

Sediment basins and traps that receive runoff from drainage areas of one acre or more shall use outlet structures that withdraw water from the surface when these devices need to be drawn down for maintenance or close out unless this is infeasible. The circumstances in which it is not feasible to withdraw water from the surface shall be rare (for example, times with extended cold weather). Non-surface withdrawals from sediment basins shall be allowed only when all of the following criteria have been met:

- (a) The E&SC plan authority has been provided with documentation of the non-surface withdrawal and the specific time periods or conditions in which it will occur. The non-surface withdrawal shall not commence until the E&SC plan authority has approved these items,
- (b) The non-surface withdrawal has been reported as an anticipated bypass in accordance with Part III, Section C, Item (2)(c) and (d) of this permit,
- (c) Dewatering discharges are treated with controls to minimize discharges of pollutants from stormwater that is removed from the sediment basin. Examples of appropriate controls include properly sited, designed and maintained dewatering tanks, weir tanks, and filtration systems,
- (d) Vegetated, upland areas of the sites or a properly designed stone pad is used to the extent feasible at the outlet of the dewatering treatment devices described in Item (c) above,
- (e) Velocity dissipation devices such as check dams, sediment traps, and riprap are provided at the discharge points of all dewatering devices, and
- (f) Sediment removed from the dewatering treatment devices described in Item (c) above is disposed of in a manner that does not cause deposition of sediment into waters of the United States.

PART III SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION C: REPORTING

1. Occurrences that Must be Reported

Permittees shall report the following occurrences:

- (a) Visible sediment deposition in a stream or wetland.
- (b) Oil spills if:
 - They are 25 gallons or more,
 - They are less than 25 gallons but cannot be cleaned up within 24 hours,
 - They cause sheen on surface waters (regardless of volume), or
 - They are within 100 feet of surface waters (regardless of volume).
- (c) Releases of hazardous substances in excess of reportable quantities under Section 311 of the Clean Water Act (Ref: 40 CFR 110.3 and 40 CFR 117.3) or Section 102 of CERCLA (Ref: 40 CFR 302.4) or G.S. 143-215.85.
- (d) Anticipated bypasses and unanticipated bypasses.
- (e) Noncompliance with the conditions of this permit that may endanger health or the environment.

2. Reporting Timeframes and Other Requirements

After a permittee becomes aware of an occurrence that must be reported, he shall contact the appropriate Division regional office within the timeframes and in accordance with the other requirements listed below. Occurrences outside normal business hours may also be reported to the Department's Environmental Emergency Center personnel at (800) 858-0368.

Occurrence	Reporting Timeframes (After Discovery) and Other Requirements		
(a) Visible sediment deposition in a stream or wetland	 Within 24 hours, an oral or electronic notification. Within 7 calendar days, a report that contains a description of the sediment and actions taken to address the cause of the deposition. Division staff may waive the requirement for a written report on a case-by-case basis. If the stream is named on the NC 303(d) list as impaired for sediment-related causes, the permittee may be required to perform additional monitoring, inspections or apply more stringent practices if staff determine that additional requirements are needed to assure compliance with the federal or state impaired-waters conditions. 		
(b) Oil spills and release of hazardous substances per Item 1(b)-(c) above	 Within 24 hours, an oral or electronic notification. The notification shall include information about the date, time, nature, volume and location of the spill or release. 		
(c) Anticipated bypasses [40 CFR 122.41(m)(3)]	 A report at least ten days before the date of the bypass, if possible. The report shall include an evaluation of the anticipated quality and effect of the bypass. 		
(d) Unanticipated bypasses [40 CFR 122.41(m)(3)]	 Within 24 hours, an oral or electronic notification. Within 7 calendar days, a report that includes an evaluation of the quality and effect of the bypass. 		
(e) Noncompliance with the conditions of this permit that may endanger health or the environment[40 CFR 122.41(I)(7)]	 Within 24 hours, an oral or electronic notification. Within 7 calendar days, a report that contains a description of the noncompliance, and its causes; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time noncompliance is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance. [40 CFR 122.41(I)(6). Division staff may waive the requirement for a written report on a case-by-case basis. 		



NCG01 SELF-INSPECTION, RECORDKEEPING AND REPORTING

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PUMP STATION #1 AND FORCE MAIN IMPROVEME

Project No.: 175568555
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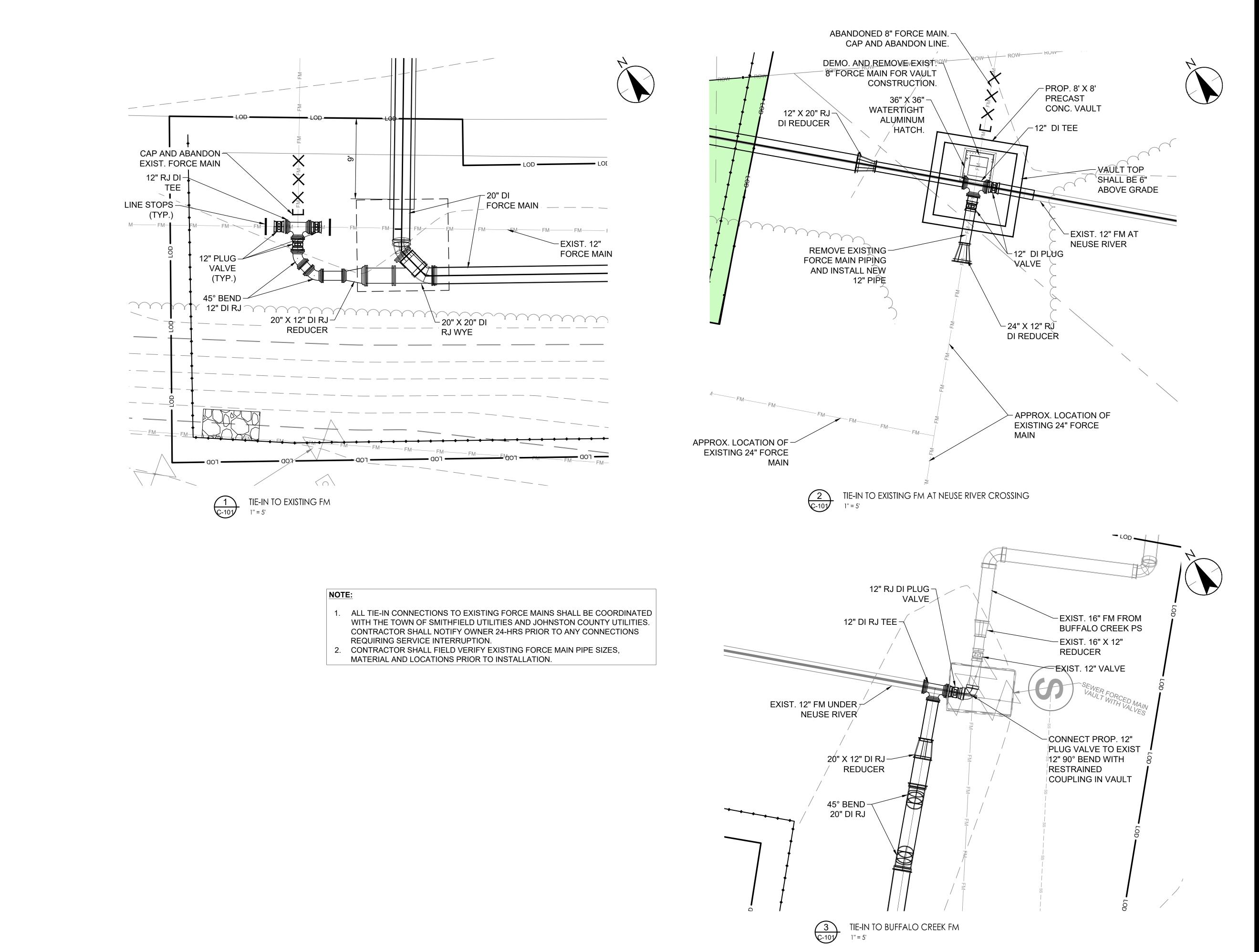
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EROSION CONTROL

DETAILS

Drawing No.

C-115



ORIGINAL SHEET - ANSI D

Project No.: 175568555 File Name: 68555_C100-C113_FM Scale: AS NOTED JR JR RLB 2025.08.29
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FORCE MAIN TIE-IN

DETAILS Revision:0 Sheet: of X

Drawing No.