

Construction Drawings for New Heritage Gravity Sewer Phase 2

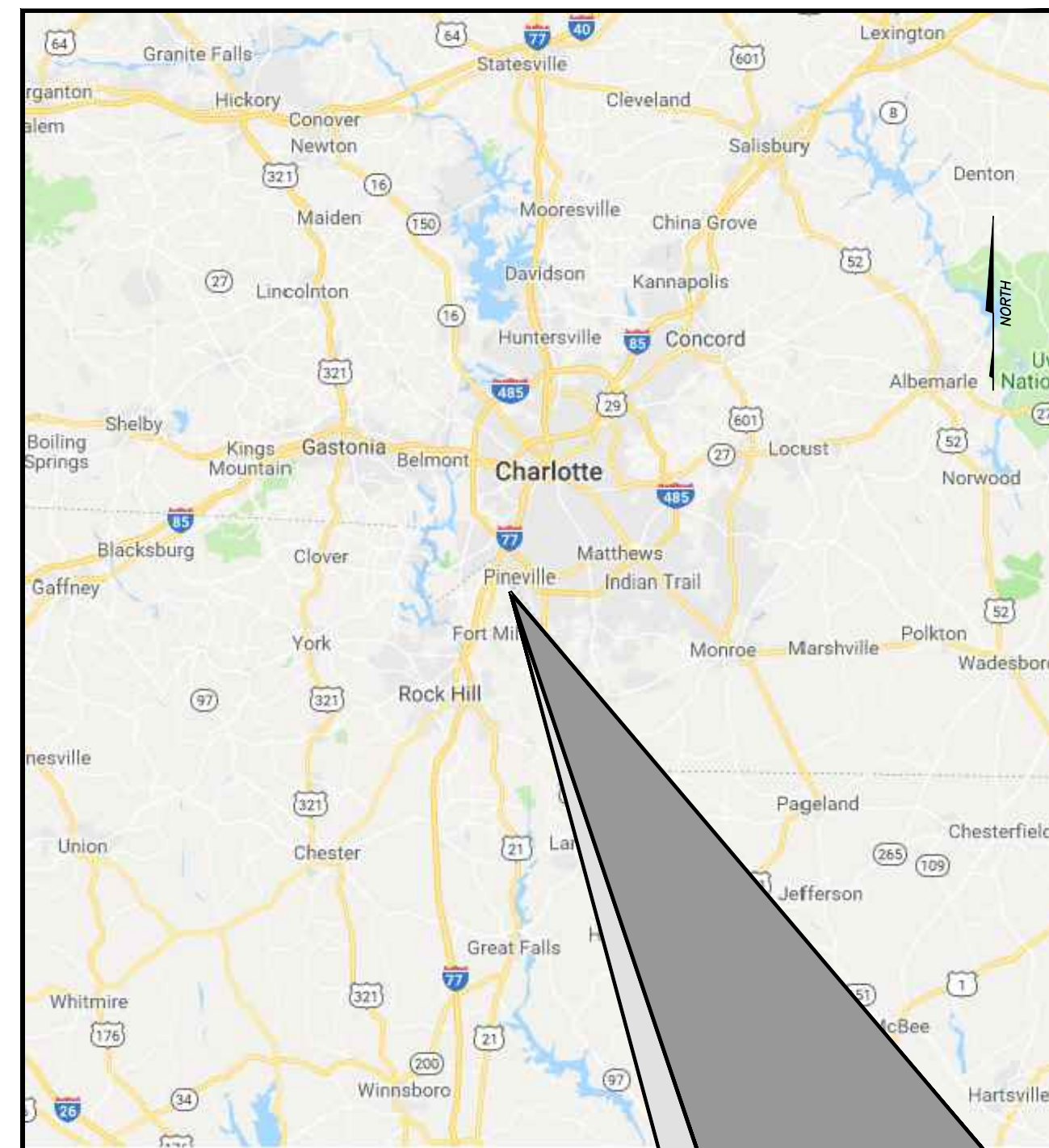
FORT MILL, SOUTH CAROLINA
COUNTY COUNCIL
DISTRICT #1

NOVEMBER 2020



COUNTY COUNCIL

Michael Johnson, Chairman
Christi Cox, Vice Chairman
Allison Love
J. Britt Blackwell
Robert Winkler
William "Bump" Roddey
Joel Hamilton



SITE

LOCATION MAP
N.T.S.

UTILITY PROVIDERS:

WATER/SEWER

York County Water and Sewer
6 South Congress St
York, S.C. 29745
(803) 628-3211
Contact: Matt Glenn

ELECTRIC

Duke Energy
550 Tryon Street Dec45A
Charlotte, NC 28202
(704) 812-2316
Contact: Stephen Lord

CABLE/INTERNET/TELEPHONE

Comporium Communications
P.O. Box 470
Rock Hill, S.C. 29730
Contact: Sam Prete (803-326-6160)
John Collins (803-487-6675)

NATURAL GAS

York County Natural Gas
979 W. Main Street
Rock Hill, S.C. 29730
(803) 329-5255
Contact: Stephen Comer

SCDHEC Permit to Construct # 42010-WW

IMPACTED PROPERTIES LINE A	
TAX MAP#	72-9000-05-19
TAX MAP#	72-9000-00-18
TAX MAP#	72-9000-00-19
TAX MAP#	72-9000-05-18
TAX MAP#	72-9050-10-42
TAX MAP#	72-9080-10-35
TAX MAP#	72-9000-05-55
TAX MAP#	72-9000-05-65

IMPACTED PROPERTIES LINE B	
TAX MAP#	72-9000-00-19
TAX MAP#	72-9000-00-05
TAX MAP#	72-9000-04-58
TAX MAP#	72-6000-00-87
TAX MAP#	72-9000-05-65

IMPACTED PROPERTIES LINE C	
TAX MAP#	72-9000-04-58
TAX MAP#	72-6000-00-87

YORK COUNTY ENGINEERING DEPARTMENT
POST OFFICE BOX 148
6 SOUTH CONGRESS STREET
YORK, SOUTH CAROLINA 29745
(803) 684-8571

Michael Baker
INTERNATIONAL

Project Name Sheet Index	
Sheet Number	Sheet Title
C1.0	Cover Sheet
C1.1	Legend & Key Plan
C1.2	General Notes
C1.3 to C1.4	Easement Data Sheets
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C2.2	Sewer Plan & Profile Line A Sta. 10+50 to 21+00
C2.3	Sewer Plan & Profile Line A Sta. 21+00 to 32+00
C2.4	Sewer Plan & Profile Line A Sta. 32+00+42+00
C2.5	Sewer Plan & Profile Line A Sta. 42+00 to 50+04
C2.6	Sewer Plan & Profile Line B Sta. 0+00 to 9+50
C2.7	Sewer Plan & Profile Line B Sta. 9+50 to 19+08
C2.8	Sewer Plan & Profile Line C Sta. 0+00 to 9+50
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C3.1	Sewer Details
C3.2 TO C3.4	Erosion Control Details
C3.5	Sewer Crossing Details

PROFESSIONAL'S CERTIFICATION

I hereby certify that this plan is designed to contain sediment on the property concerned and to provide for the control of stormwater runoff from the property and that to the best of my knowledge and belief all the provisions are in accordance with the Stormwater Management and Sediment Control Ordinance of York County, South Carolina.

11/13/2020
Date
Registered Professional Engineer

PROFESSIONAL'S CERTIFICATION

I have placed my signature and seal on the design documents submitted signifying that I accept responsibility for the design of the system. Further, I certify to the best of my knowledge and belief that the design is consistent with the requirements of Title 48, Chapter 14 of the Code of Laws of SC, 1976 as amended, pursuant to regulation 72-300 et seq. (if applicable), and in accordance with the terms and conditions of SCR100000.

11/13/2020
Date
Registered Professional Engineer

APPLICANT'S CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

"I (We) hereby certify that to the best of my knowledge, these plans contain all information required by the Zoning Ordinance of York County SC and as referenced by this application. "I (We) hereby certify that all land disturbing activities including clearing, grading, construction and/or development will be done pursuant to this plan and agree to indemnify any person damaged by failure to comply with the approved plan. County and state authorities will be allowed to enter upon the project site provided the present appropriate credentials.

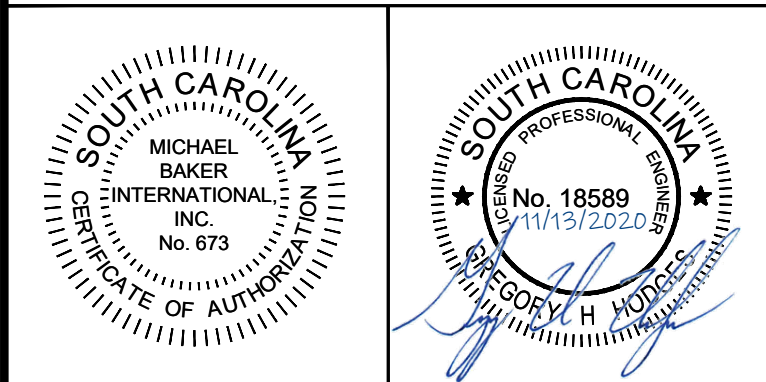
11/13/2020
Date
Permit Applicant



YORK COUNTY
ROCK HILL, SOUTH CAROLINA

Michael Baker

INTERNATIONAL
Michael Baker International
700 Huger Street
Columbia, South Carolina 29201



Designer: GHH
Checked by: KTC
Technician: MTW
Project Number: 166622

REVISIONS			
No.	Description	Date	By
A	ISSUED FOR 30% REVIEW	NOV. 2018	KTC
B	ISSUED FOR 60% REVIEW	MARCH 2019	KTC
C	ISSUED FOR PERMITS	MAY 2019	KTC
D	ISSUED FOR PERMIT REVIEW COMMENTS	AUG. 2019	KTC
E	ISSUED FOR BIDS	JAN. 2020	KTC
F	REVISED PER EASEMENT AGREEMENT	SEPT. 2020	KTC
G	RE-ISSUED FOR BIDS	NOV. 2020	KTC

Project Name:
**NEW HERITAGE
GRAVITY SEWER
PHASE 2**

Drawing Name:
COVER SHEET

Municipality Project Number:

Date: NOVEMBER 2020
Division: WATER/WASTEWATER

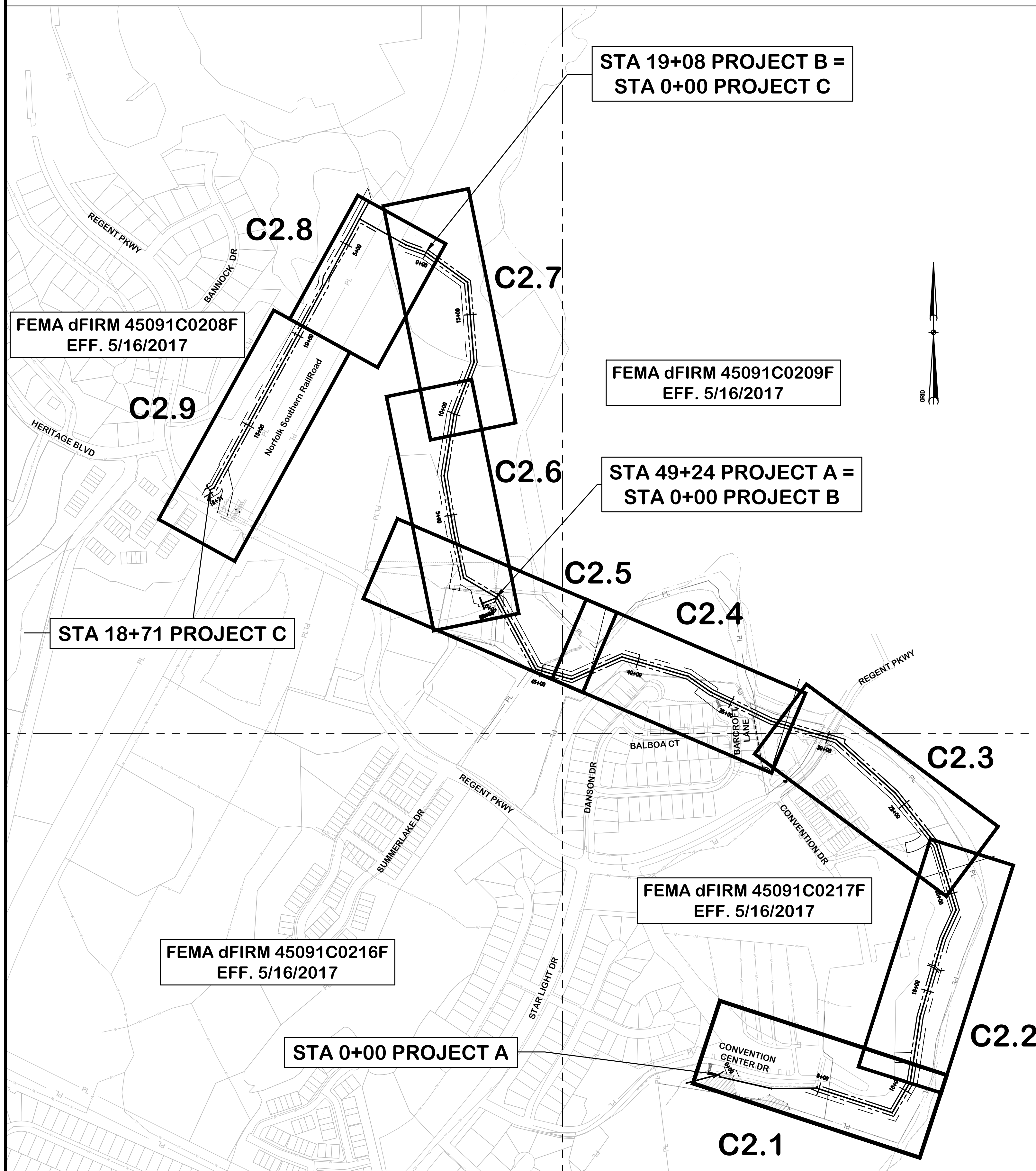
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Drawing Number:
C1.0

CONSTRUCTION DATES:
TBD

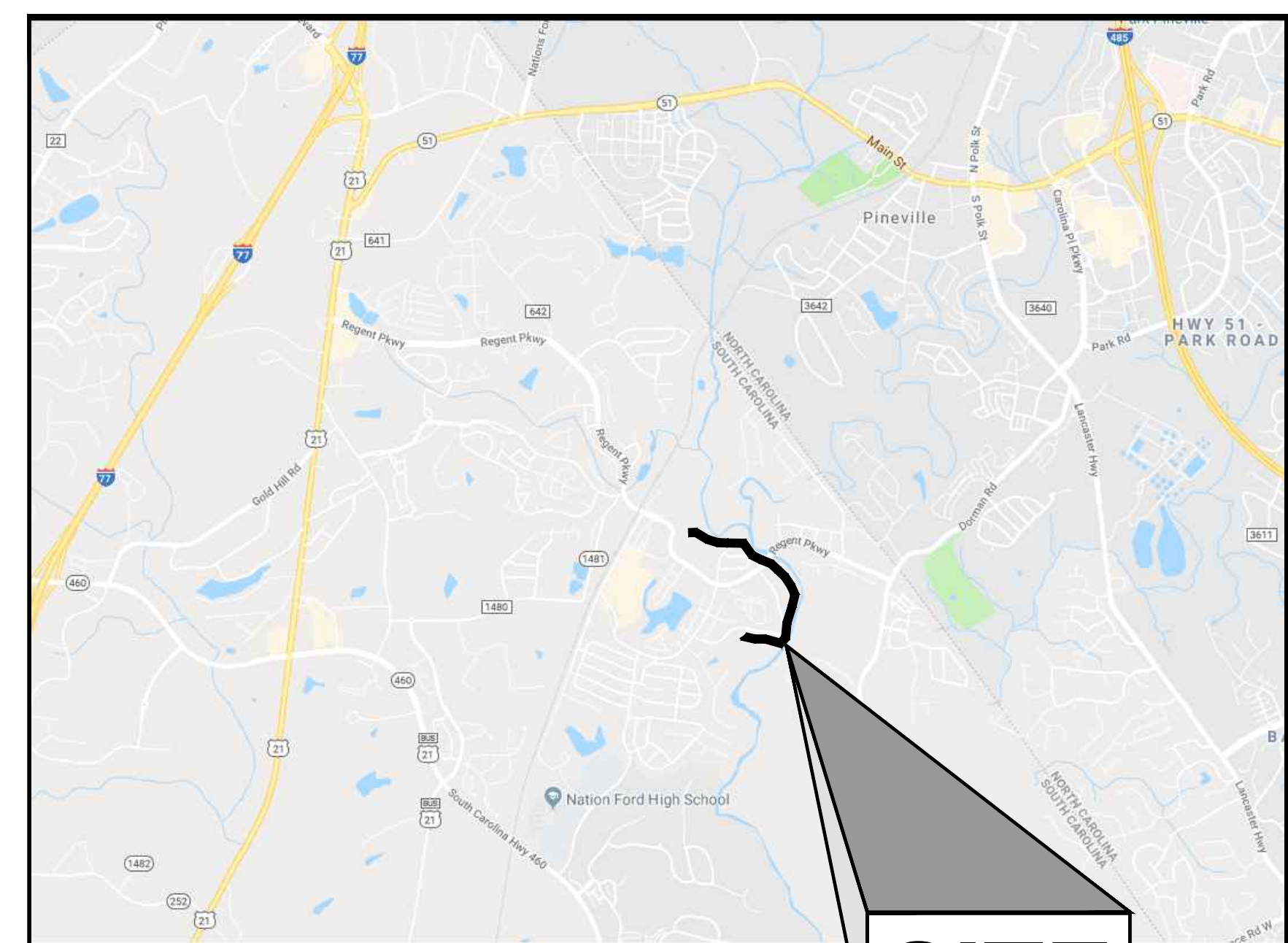
ISSUED FOR BID SET

W:\166822 - New Heritage PHZ Gravity Sewer\DRAWINGS\166822 New Heritage Ph 2 Sewer Legend Notes Key Plan C1.dwg Modified: Nov 13, 2020 - 9:45am Plotted: Nov 13, 2020 - 10:01am Greg Hodges



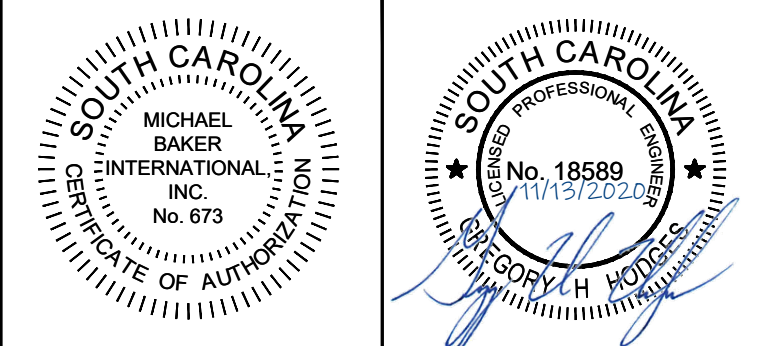
LEGEND

EXISTING WATER MAIN	UNDERGROUND ELECTRICAL	PROPOSED STORM DRAIN	TEMPORARY CONSTRUCTION EASEMENT
ABANDON WATER MAIN	OVERHEAD ELECTRICAL	EXISTING STORM DRAIN MANHOLE	TREE CLEARING
PROPOSED WATER MAIN	POWER/UTILITY POLE	EXISTING STORM DRAIN JUNCTION BOX	CONCRETE BRICK / PAVERS
PROPOSED CLEANING & LINING	LIGHT POLE LAMP POST	EXISTING STORM DRAIN CATCH BASIN	BRICK WALL / FENCES
EXISTING WATER METER	MAST ARM	EXISTING STORM DRAIN DROP INLET	STREET SIGN TRAFFIC
EXISTING WATER VALVE	ELECTRIC MANHOLE	SILT FENCING	INERSTATE SIGN TRAFFIC
EXISTING FIRE HYDRANT	TRANSFORMER	LIMITS OF DISTURBANCE	S.C. HIGHWAY SIGN TRAFFIC
EXISTING WATER BLOW OFF	ELECT HAND HOLD	SHORE LINE	PARKING METER TRAFFIC
EXISTING POST HYDRANT	EXISTING GAS MAIN	WATER SURFACE OR HGL	CONTROL CABINET TRAFFIC
EXISTING PLUG	GAS VALVE	HUB/PPK NAIL	DETECTABLE WARNING TRAFFIC
EXISTING AIR RELEASE VALVE	GAS METER	PROPERTY IRON (IPF, IO, IPS, etc.)	NO PARKING SIGN
WM/SSFM REDUCER	OVERHEAD TELEPHONE LINE	R/W MONUMENT	100 YEAR FLOOD PLAIN
EXISTING FORCE MAIN VALVE	UNDERGROUND TELEPHONE LINE	EXISTING CONTOURS	FENCE
EXISTING SANITARY SEWER	TELE. MANHOLE	PROPOSED CONTOURS	WETLAND (CONTINUOUS)
PROPOSED SANITARY SEWER	TELE. PEDESTAL	EXISTING GRADE FINISH GRADE	WETLAND DITCH
BENCHMARK	FIBER OPTIC CABLE	SPOT ELEVATION STAKE ELEVATION	GUARD RAIL
EXISTING SEWER FORCE MAIN	CABLE BOX	RAILROAD TRACKS	RETAINING WALL
PROPOSED SEWER FORCE MAIN	RIGHT-OF-WAY LINE	SIGNAL SPIKE RAILROAD CROSSING ARMS	BUSH LINE BUSH MARSH/GRASS
PROPOSED SEWER SERVICE	PROPERTY LINE	RAILROAD SIGNAL BOX	TREE LINE MISLITREE STUMP
EXISTING SEWER CLEANOUT	CURB AND GUTTER	MAILBOX BENCH DUMPSTER	CEDAR CHERRY CREPE-MYRTLE DOGWOOD
EXISTING SEWER MANHOLE	CENTER LINE	CONTROL VALVE SPRINKLER HAND HOLD	ELM HICKORY MAGNOLIA MAPLE
TYPE A - SEDIMENT TUBE INLET PROTECTION		IRRIGATION	OAK PALMETTO PEAR PINE
EXISTING STORM DRAIN		CONSTRUCTION ENTRANCE	PECAN TREE REMOVAL TREE PROTECTION
			SILT FENCE ROCK OUTLET
			ROCK CHECK DITCH



YORK COUNTY
ROCK HILL, SOUTH CAROLINA

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G	RE-ISSUED FOR BIDS	NOV. 2020	KTC

Project Name: **NEW HERITAGE GRAVITY SEWER PHASE 2**

Drawing Name: **LEGEND AND KEY PLAN**

Municipality Project Number:

Date: **NOVEMBER 2020** Division: **WATER/WASTEWATER**

Scale: **AS NOTED** Sheet Number:

Drawing Number: **C1.1**

GENERAL NOTES

- CONTRACTOR SHALL VISIT THE SITE TO DETERMINE EXISTING CONDITIONS PRIOR TO SUBMITTING BID.
- THE EXISTING PAVEMENTS, ACCESS ROADS, AND HAUL ROUTES MAY NOT BE CAPABLE OF SUPPORTING CERTAIN TYPES OF CONSTRUCTION EQUIPMENT. PRIOR TO BIDDING, THE CONTRACTOR SHALL FULLY SATISFY ITSELF AS TO THE ABILITY OF THE EXISTING PAVEMENTS TO SATISFACTORILY SUSTAIN THE TYPE OF EQUIPMENT HE PLANS TO USE. CONTRACTOR SHALL SIZE THE EQUIPMENT USED FOR CONSTRUCTION ACCORDINGLY. ANY DAMAGE TO EXISTING PAVEMENT CAUSED BY HAULING OR ANY OTHER CONSTRUCTION ACTIVITY EXCLUDING SPECIFIED REPAIR WORK, SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR SHALL OBTAIN ALL PERMITS NECESSARY FOR THE HAULING OF MATERIAL AND EQUIPMENT AND PERFORMANCE OF THEIR CONSTRUCTION SERVICES FOR ITS PROJECT.
- THE CONTRACTOR SHALL ABIDE BY ALL THE RULES AND REGULATIONS PERTAINING TO ITS WORK AS SET FORTH BY LOCAL, STATE, AND FEDERAL ENVIRONMENTAL LAWS. IF A HAZARDOUS, OR REGULATED MATERIAL IS SPILLED, IT MUST BE PROMPTLY REPORTED AND CLEANED UP BY THE CONTRACTOR AT ITS EXPENSE.
- EXISTING EASEMENTS TO OTHER PROPERTIES SHALL BE MAINTAINED AT ALL TIMES.
- CONTRACTOR SHALL CALL 811 UTILITY LOCATE SERVICE AT LEAST 72 HOURS PRIOR TO START OF ANY CONSTRUCTION ACTIVITY.
- VIBRATION AND SETTLEMENT MONITORING SHALL BE PERFORMED IN ACCORDANCE WITH SCDOT GEOTECHNICAL DESIGN MANUAL CHAPTER 24 "CONSTRUCTION SUPPORT". LEVEL 2 MONITORING IN ACCORDANCE WITH SECTION 24.5, INCLUDING PRE-AND POST-CONDITION SURVEY, SHALL BE PERFORMED USING EQUIPMENT MEETING THE REQUIREMENTS OF SECTION 24.6. A MONITORING PLAN SHALL BE ESTABLISHED IN ACCORDANCE WITH SECTION 24.7 AND EXECUTED IN ACCORDANCE WITH SECTION 24.8 AND OTHER RELEVANT SECTIONS OF ITS DOCUMENT. MONITORING PLAN SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND COMMENT PRIOR TO IMPLEMENTATION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION AND IDENTIFICATION OF ALL EXISTING UTILITIES AND UNDERGROUND PIPELINES IN THE CONSTRUCTION AREA. ANY DAMAGE TO EXISTING UTILITIES OR UNDERGROUND PIPELINES ON OR OFF PROPERTY SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ALL REPAIR WORK SHALL MEET THE APPROVAL OF THE OWNERS OF THE DAMAGED UTILITY. NO REIMBURSEMENT WILL BE ALLOWED FOR UTILITY/PIPE REPAIR OR REPLACEMENT.
- APPROVED CUTS IN ASPHALT OR CONCRETE PAVEMENT SHALL BE MADE USING A PAVEMENT SAW, AND SHALL BE PATCHED TO MATCH THE EXISTING SURFACE IN A MANNER APPROVED BY THE ENGINEER.
- ALL CONSTRUCTION TRAFFIC SHALL ENTER AND EXIT THE PROJECT AREA THROUGH THE INDICATED CONSTRUCTION ENTRANCES.
- THE LIMITS OF CONSTRUCTION NOTED ON THIS SHEET DEFINE THE LIMITS OF FULL RESPONSIBILITY OF THE CONTRACTOR FOR ITS PROJECT. FULL RESPONSIBILITY INCLUDES:
 - ALL SITE DISTURBANCE AND RESTORATION
 - ALL EROSION CONTROL MEASURES – INSTALLATION, MAINTENANCE, AND REMOVAL
 - ALL CONSTRUCTION AS IDENTIFIED IN THE CONSTRUCTION DOCUMENTS
- ALL CONSTRUCTION, STAGING, AND ACCESS FOR ITS PROJECT SHALL OCCUR WITHIN THE DESIGNATED CONSTRUCTION LIMITS. ANY OFFSITE STAGING AREAS ARE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN, PERMIT AND MAINTAIN.
- THE CONTRACTOR SHALL BE RESPONSIBLE, AT NO ADDITIONAL COST TO THE OWNER, FOR ANY DAMAGE BY ITS WORKFORCE TO ANY AREAS OUTSIDE OF THE DESIGNATED CONSTRUCTION LIMITS.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR THE STORAGE AND SECURITY OF ITS MATERIAL AND EQUIPMENT AND SHALL ERECT STORAGE FACILITIES AND FENCING AS NECESSARY.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR THE CLEANUP AND DISPOSAL OF ALL TRASH AND DEBRIS CREATED BY ITS WORK OR PERSONNEL. ALL TRASH AND DEBRIS MUST BE DISPOSED OF OFFSITE.
- ALL NON-PAVED AREAS OUTSIDE LIMITS OF CONSTRUCTION AND DESIGNATED STAGING AREA THAT ARE DISTURBED BY THE CONTRACTOR'S WORK, HAUL ROADS, ETC. SHALL BE RE-SEDED AND RESTORED TO ORIGINAL CONDITION BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER AT NO ADDITIONAL COST TO THE OWNER.
- IN THE EVENT THE CONTRACTOR SERVICES ITS EQUIPMENT ON THE PROJECT SITE PROPERTY, ALL OIL AND FLUIDS REMOVED FROM THE EQUIPMENT MUST BE COLLECTED AND DISPOSED OF IN ACCORDANCE WITH THE LOCAL, STATE, AND FEDERAL ENVIRONMENTAL LAWS. IF A HAZARDOUS, OR REGULATED MATERIAL IS SPILLED, IT MUST BE PROMPTLY REPORTED TO APPROPRIATE ENTITY AND CLEANED UP BY THE CONTRACTOR AT ITS EXPENSE.
- CONTRACTOR TO UTILIZE ONLY SHOWN ACCESS POINTS TO ENTER TEMPORARY AND PERMANENT EASEMENT ACCESS.
- CONTRACTOR TO DOCUMENT CONDITION OF ALL EXISTING PAVEMENT UTILIZED FOR ACCESS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- CONTRACTOR TO REPAIR AND REPLACE IN KIND ANY DAMAGES TO SITE ACCESS ROADS, INCLUDING SURFACE REPLACEMENT AND SUBGRADE REPAIRS WHERE DEEMED NECESSARY BY ENGINEER.

STAKING GENERAL NOTES

- ALL SURVEY INFORMATION IS BASED ON STATE PLANE COORDINATES AND USGS 1983 HORIZONTAL DATUM AND 1988 VERTICAL DATUM.
- STAKING INFORMATION SHOWN IS TO ASSIST CONTRACTOR IN PROPERLY PRICING ITS BID FOR ITS PROJECT. ACTUAL CAD FILE INFORMATION WILL BE SUPPLIED TO THE SELECTED CONTRACTOR PRIOR TO CONSTRUCTION TO ASSIST IN CONSTRUCTION STAKING.
- CONSTRUCTION STAKE-OUT SHALL BE PERFORMED BY CONTRACTOR. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ALL MEASUREMENTS THAT MAY BE REQUIRED TO LAY OUT THE CONSTRUCTION. THE COST OF STAKING WILL NOT BE PAID FOR DIRECTLY AND WILL BE INCLUDED IN THE UNIT PRICES FOR THE VARIOUS ITEMS OF WORK.

DEMOLITION GENERAL NOTES

- THE EXISTING INFORMATION AND CONDITION STATUS PROVIDED IN THESE PLANS IS SOLELY TO ASSIST THE CONTRACTOR IN ASSESSING THE NATURE AND EXTENT OF CONDITIONS WHICH MAY BE ENCOUNTERED DURING THE COURSE OF WORK. ALL CONTRACTORS ARE DIRECTED, PRIOR TO BIDDING, TO CONDUCT WHATEVER

INVESTIGATIONS THEY MAY DEEM NECESSARY TO ARRIVE AT THEIR OWN CONCLUSION REGARDING THE ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED, AND UPON WHICH THEIR BIDS WILL BE BASED.

- EXISTING UTILITIES SHOWN ARE TAKEN FROM FIELD SURVEYS, AND UTILITY LOCATION SERVICE FIELD MARKED LOCATIONS. HOWEVER, THESE LOCATIONS ARE NOT TO BE CONSIDERED ALL-INCLUSIVE. THE CONTRACTOR SHALL VERIFY EXACT LOCATION, CHARACTER AND NATURE OF ALL EXISTING AND PROPOSED UTILITIES PRIOR TO BEGINNING CONSTRUCTION.
- THE CONTRACTOR SHALL MAKE EXPLORATORY EXCAVATIONS AT ALL INTERSECTIONS OF PROPOSED WORK AND EXISTING UTILITIES. THE EXPLORATORY EXCAVATIONS SHALL BE MADE AT LEAST FORTY-EIGHT (48) HOURS IN ADVANCE OF THE WORK. IF THERE IS A POTENTIAL CONFLICT, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY. INFORMATION ON THE CONFLICT SHALL BE FURNISHED BY THE CONTRACTOR AND SHALL INCLUDE LOCATIONS, ELEVATIONS, UTILITY TYPE, MATERIAL AND SIZE.
- THE CONTRACTOR IS RESPONSIBLE FOR UNCOVERING AND SUPPORTING EXISTING UTILITIES. CARE SHALL BE TAKEN SO AS NOT TO INTERRUPT SERVICE DURING CONSTRUCTION EXCEPT UPON APPROVAL OF THE ENGINEER AND THE UTILITY OWNER AND WITH PROPER TENANT NOTIFICATION.
- REMOVE ALL EXISTING TREES WITHIN THE PERMANENT EASEMENT.

MATERIAL NOTES

- DUCTILE IRON PIPE SHALL BE DESIGNED IN ACCORDANCE WITH THE LATEST REVISION OF ANSIAWWA C150/A21.50 FOR A PRESSURE CLASS OF 250 PSI OR AS NOTED ON THE CONSTRUCTION DRAWINGS. ALL BEDDING SHALL BE TYPE 2 PER THE DETAILS FOR ALL PIPE WITH 18" OR LESS OF COVER. BEDDING FOR PIPE WITH MORE THAN 18" OF COVER WILL REQUIRE TYPE 4 BEDDING.
- DUCTILE IRON PIPE SHALL BE MANUFACTURED IN ACCORDANCE WITH THE LATEST REVISION OF ANSIAWWA C151/A21.51. EACH PIPE SHALL BE SUBJECTED TO A HYDROSTATIC PRESSURE TEST OF AT LEAST 500 PSI AT THE POINT OF MANUFACTURE.
- PIPE SHALL HAVE STANDARD COATING ON THE EXTERIOR. PIPE SHALL ALSO HAVE A CERAMIC EPOXY LINING ON THE INTERIOR IN ACCORDANCE WITH ASTM A716, LATEST EDITION, INDURON PROTECTO 401 OR APPROVED EQUAL.
- THE CLASS OR NOMINAL THICKNESS, NET WEIGHT WITHOUT LINING, AND CASTING PERIOD SHALL BE CLEARLY MARKED ON EACH LENGTH OF PIPE. ADDITIONALLY, THE MANUFACTURER'S MARK, COUNTRY WHERE CAST, YEAR IN WHICH THE PIPE WAS PRODUCED, AND THE LETTERS "DI" OR "DUCTILE" SHALL BE CAST OR STAMPED ON THE PIPE.
- ALL PIPE SHALL BE FURNISHED WITH PUSH-ON TYPE JOINTS, SUCH AS TYTON® OR FASTITE®. JOINTS SHALL BE IN ACCORDANCE WITH ANSIAWWA C111/A21.11, OF LATEST REVISION, AND BE FURNISHED COMPLETE WITH ALL NECESSARY ACCESSORIES. PIPE TO BE LOADED IN CASING WILL REQUIRE FIELD-LOK GASKET OR APPROVED EQUAL.
- ALL MANHOLES SHALL BE LINED WITH AN EPOXY LINER, RAVEN 405 (OR APPROVED EQUAL) 200 MILS MINIMUM THICKNESS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL MATERIALS TO YORK COUNTY ENGINEERING FOR REVIEW AND COMMENT PRIOR TO CONSTRUCTION.

CONSTRUCTION NOTES

- SEWER SYSTEMS SHALL BE CONSTRUCTED IN GENERAL ACCORDANCE WITH ALL YORK COUNTY AND SCDHEC REGULATIONS. CONTRACTOR SHALL REFERENCE YORK COUNTY SEWER STANDARDS, TESTING STANDARDS, AND PROJECT SPECIFICATIONS.
- SEWER CONSTRUCTION ON ITS SITE IS AUTHORIZED BY PERMITS ISSUED BY THE SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (SCDHEC). THE WORK IS SUBJECT TO INSPECTION AT ALL TIMES BY REPRESENTATIVES OF SCDHEC, YORK COUNTY, AND THE ENGINEER OF RECORD. THE PERMITS REQUIRE CERTIFICATION OF COMPLETION BY THE ENGINEER OF THE SEWER SYSTEM PRIOR TO THE ISSUANCE OF FINAL OPERATION APPROVAL BY SCDHEC.
- CONTRACTOR SHALL CONDUCT A PRE-CONSTRUCTION CONFERENCE ON SITE WITH THE ENGINEER OF RECORD, YORK COUNTY MS4, AND OTHER INTERESTED PARTIES PRIOR TO BEGINNING OF CONSTRUCTION.
- CONNECTION TO ANY EXISTING LINES SHALL BE MADE BY THE CONTRACTOR IN THE PRESENCE OF YORK COUNTY INSPECTION PERSONNEL. PLUG NEW CONNECTIONS UNTIL CONSTRUCTION AND TESTING HAVE BEEN COMPLETED, INSPECTED BY THE ENGINEER OF RECORD AND YORK COUNTY, ACCEPTED BY SCDHEC, AND FINAL CONNECTION IS AUTHORIZED.
- MAINTAIN A MINIMUM 18 INCH VERTICAL SEPARATION BETWEEN STORM AND SANITARY SEWER AT CROSSINGS.
- PRIOR TO BEGINNING CONSTRUCTION OF SEWER INFRASTRUCTURE, COPIES OF THE SCDHEC PERMITS TO CONSTRUCT WILL BE PROVIDED TO CONTRACTOR BY THE YORK COUNTY ENGINEERING DEPARTMENT.
- ALL SEWER MANHOLES SHALL BE PRE-CAST CONCRETE WITH INTEGRALLY CAST WATERTIGHT CONNECTIONS.
- ALL SEWER MANHOLES RIMS NOT IN PAVED AREAS SHALL BE A MINIMUM OF TWO (2) FEET ABOVE FINISHED GRADE.
- MANHOLES INDICATED ON THE DRAWINGS THAT ARE LOCATED WITHIN THE 100-YEAR FLOODPLAIN SHALL HAVE MANHOLE COVERS BOLTED TO THE PRE-CAST MANHOLE FRAMES.

SEWER LINE TESTING AND INSPECTION NOTES

- NOTIFY THE ENGINEER OF RECORD AND YORK COUNTY AT LEAST 48 HOURS BEFORE STARTING CONSTRUCTION OF SEWER FACILITIES. THE ENGINEER SHALL PERIODICALLY INSPECT THE PROGRESS OF INSTALLATION AND SHALL COMPLETE A FINAL SEWER INSPECTION. THE ENGINEER OF RECORD AND YORK COUNTY SHALL WITNESS LOW PRESSURE AIR TESTING AND MANDREL TESTING OF THE SEWER SYSTEM. THE CONTRACTOR SHALL FURNISH, SECURE, AND PROVIDE ALL NECESSARY TESTING MATERIALS, EQUIPMENT, PROCEDURES AND CERTIFIED LABORATORY TEST RESULTS FOR USE WITH ENGINEERS FINAL CERTIFICATION OF COMPLETION.
- TEST SANITARY SEWER LINES FOR DEFLECTION WITH A 5% MANDREL NOT LESS THAN 30 DAYS AFTER COMPLETION OF BACKFILL. PERFORM LOW PRESSURE AIR TESTING IN ACCORDANCE WITH ASTM C-828 AND C924 ON ALL SEWER MAINS.

- TRENCH BACKFILL AND COMPACTION TESTING SHALL BE PERFORMED BY A CERTIFIED SOILS LABORATORY FOR ALL BACKFILLED AREAS. BACKFILL MATERIAL FROM THE BOTTOM OF THE TRENCH TO WITHIN SIX (6) INCHES OF THE SUBGRADE SHALL HAVE A MINIMUM DRY DENSITY OF 95% AS DEFINED BY THE STANDARD PROCTOR TEST. ALL MATERIAL WITHIN THE TOP 6 INCHES OF THE SUBGRADE LEVEL SHALL HAVE AN IN PLACE DENSITY OF 98%.
- THE CONTRACTOR SHALL SUPPLY THE ENGINEER WITH SEWER AS-BUILTS (LOCATION, ELEVATION, LENGTH, AND SLOPE) PREPARED BY A REGISTERED LAND SURVEYOR SUITABLE FOR PREPARATION OF FINAL RECORD DRAWINGS.

TEMPORARY AND PERMANENT SEEDING NOTES

- ALL DISTURBED AREAS SHALL BE PERMANENTLY GRASSED PER THE SCDHEC BMP MANUAL.
- ALL DISTURBED AREAS WITH NO ACTIVITY FOR MORE THAN 14 DAYS SHALL BE TEMPORARILY GRASSED PER THE SCDHEC BMP MANUAL.
- THE CONTRACTOR SHALL INCLUDE IN ITS CONTRACT PRICE TO THE OWNER ALL COSTS NECESSARY TO PERMANENTLY GRASS THE SITE MEETING THE DEFINITION OF "STABILIZED" AS DEFINED BY THE NPDES GENERAL PERMIT (100% COVERAGE AND 70% DENSITY) OR AS MAY BE REQUIRED BY THE LOCAL ISSUING AUTHORITY IF STRICTER. IT IS THE CONTRACTOR'S RESPONSIBILITY TO KNOW THESE REQUIREMENTS AND ESTIMATE THE COST TO MEET THESE REQUIREMENTS.
- ALL TOPSOIL STRIPPED FROM THE SITE SHALL BE PRESERVED AND SPREAD OVER AREAS TO BE GRASSED TO A UNIFORM DEPTH SUCH THAT USE ALL NATIVE TOPSOIL IS UTILIZED.

Temporary Seeding - Upstate

Species	lbs./ac	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Browntop Millet (Alone)	40												
Browntop Millet (Mix)	10												
Rye Grain (Alone)	56												
Rye Grain (Mix)	10												
Rye Grass (Alone)	50												
Rye Grass (Mix)	8												
For Steep Slopes/Cut Slopes													
Weeping Lovegrass (Alone)	4												
Weeping Lovegrass (Mix)	2												

Permanent Seeding - Upstate

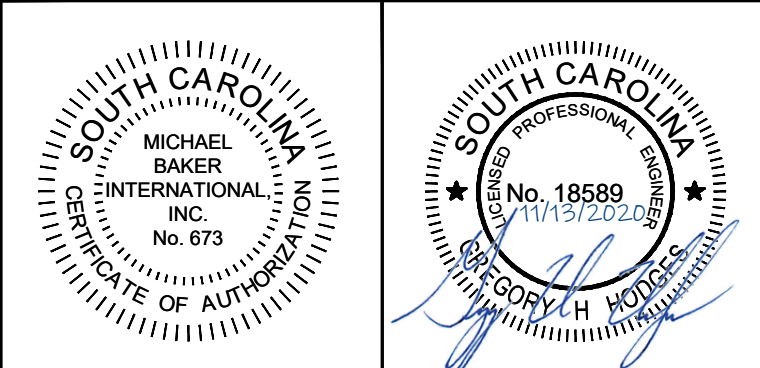
Species	Lbs/Ac	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Bahia Grass (Alone)	40												
Bahia Grass (Mix)	30												
Bermuda Grass (hulled) (Alone)	8-12												
Bermuda Grass (hulled) (Mix)	4-6												
Fescue, Tall (KY31) Alone	40												
Fescue, Tall (KY31) mix	20												
Sericea Lespedeza (Scarified) Alone or Mix (inoculate with EL Inoculant)	40												
Ladino Clover (mix only) Inoculate with AB Inoculant	2												
For Steep Slopes/Cut Slopes													
Weeping Lovegrass (Alone)	4												
Weeping Lovegrass (Mix)	2												
Crownvetch (Mix) (Inoculate with Type M Inoculant)	8-10												



YORK COUNTY
ROCK HILL, SOUTH CAROLINA

Michael Baker

INTERNATIONAL
Michael Baker International
700 Huger Street
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Technician: MTW
Project Number: 166622

REVISIONS

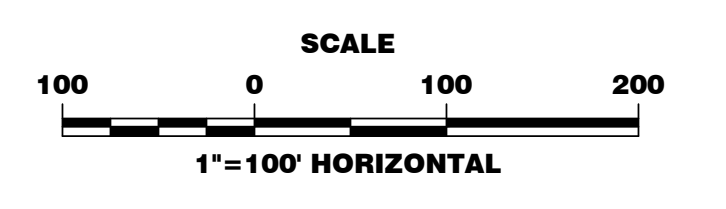
No.	Description	Date	By
A	ISSUED FOR 30% REVIEW	NOV. 2018	KTC
B	ISSUED FOR 60% REVIEW	MARCH 2019	KTC
C	ISSUED FOR PERMITS	MAY 2019	KTC
D	ISSUED FOR PERMIT REVIEW COMMENTS	AUG. 2019	KTC
E	ISSUED FOR BIDS	JAN. 2020	KTC
F	REVISED PER EASEMENT AGREEMENT	SEPT. 2020	KTC
G	RE-ISSUED FOR BIDS	NOV. 2020	KTC

Project Name:
NEW HERITAGE GRAVITY SEWER PHASE 2

Drawing Name:
GENERAL NOTES

Municipality Project Number:
Date: **NOVEMBER 2020**
Division: **WATER/WASTEWATER**
Scale:
Sheet Number:
Drawing Number:
C1.2

Designer: GHH	Checked by: KTC
Technician: MTW	Project Number: 166622



REVISIONS			
No.	Description	Date	By
A	ISSUED FOR 30% REVIEW	NOV. 2018	KTC
B	ISSUED FOR 60% REVIEW	MARCH 2019	KTC
C	ISSUED FOR PERMITS	MAY 2019	KTC
D	ISSUED FOR PERMIT REVIEW COMMENTS	AUG. 2019	KTC
E	ISSUED FOR BIDS	JAN. 2020	KTC
F	REVISED PER EASEMENT AGREEMENT	SEPT. 2020	KTC
G	RE-ISSUED FOR BIDS	NOV. 2020	KTC

Project Name:
**NEW HERITAGE
GRAVITY SEWER
PHASE 2**

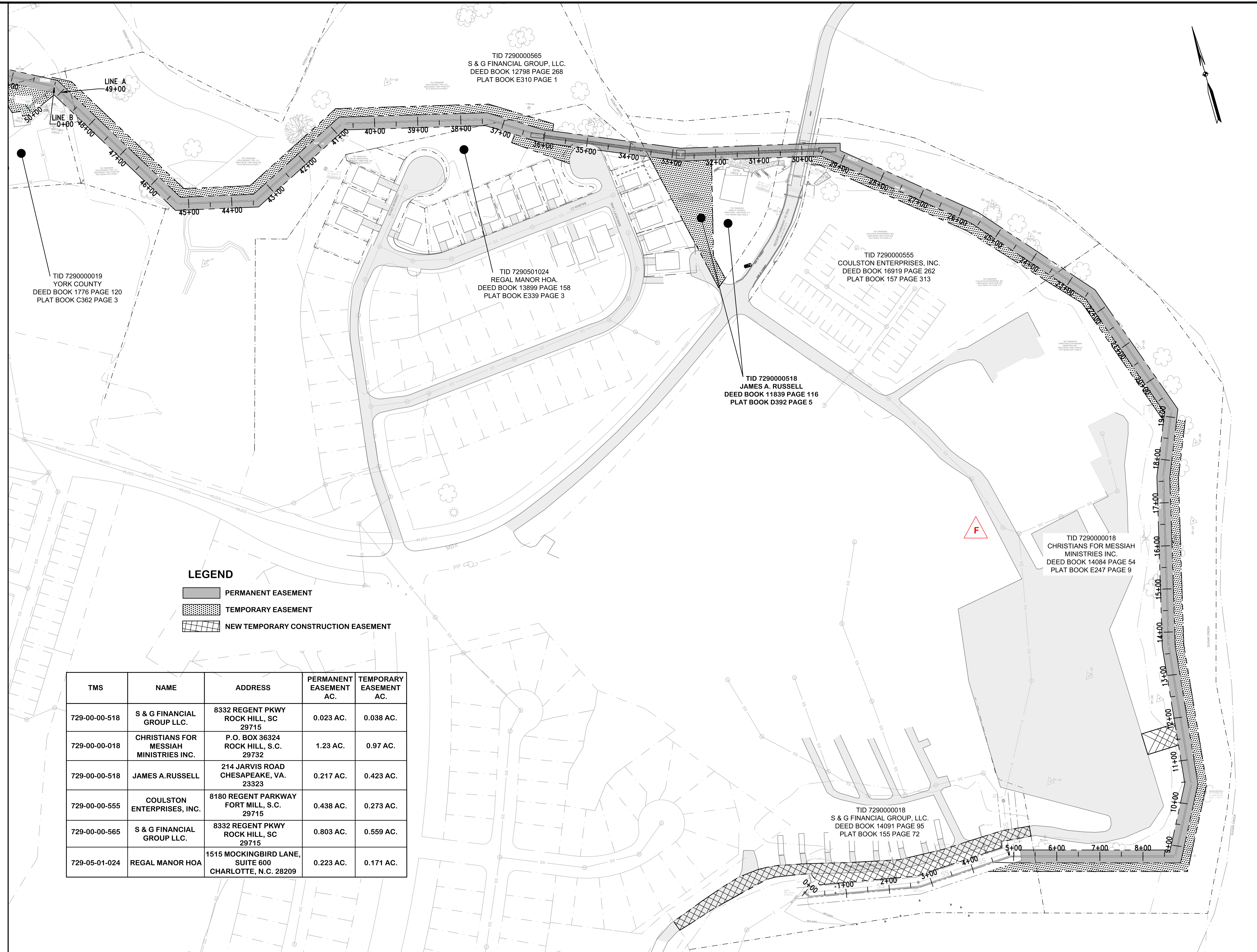
Drawing Name:
**RIGHT-OF-WAY MAP
LINE A**

Municipality Project Number:

Date: **NOVEMBER 2020** Division: **WATER/WASTEWATER**

Scale: **1"=100'** Sheet Number:

Drawing Number:
C1.3



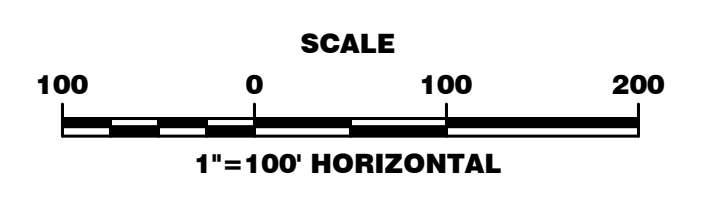
LEGEND

	PERMANENT EASEMENT
	TEMPORARY EASEMENT
	NEW TEMPORARY CONSTRUCTION EASEMENT

TMS	NAME	ADDRESS	PERMANENT EASEMENT AC.	TEMPORARY EASEMENT AC.
729-00-00-518	S & G FINANCIAL GROUP LLC.	8332 REGENT PKWY ROCK HILL, SC 29715	0.023 AC.	0.038 AC.
729-00-00-018	CHRISTIANS FOR MESSIAH MINISTRIES INC.	P.O. BOX 36324 ROCK HILL, S.C. 29732	1.23 AC.	0.97 AC.
729-00-00-518	JAMES A. RUSSELL	214 JARVIS ROAD CHESAPEAKE, VA. 23323	0.217 AC.	0.423 AC.
729-00-00-555	COULSTON ENTERPRISES, INC.	8180 REGENT PARKWAY FORT MILL, S.C. 29715	0.438 AC.	0.273 AC.
729-00-00-565	S & G FINANCIAL GROUP LLC.	8332 REGENT PKWY ROCK HILL, SC 29715	0.803 AC.	0.559 AC.
729-05-01-024	REGAL MANOR HOA	1515 MOCKINGBIRD LANE, SUITE 600 CHARLOTTE, N.C. 28209	0.223 AC.	0.171 AC.

NOTE: *PARCEL LINES FOR NON-IMPACTED PROPERTIES ARE PROVIDED BY YORK COUNTY GIS AND MAY NOT ACCURATELY REFLECT LOT LINES.

Designer: GHH	Checked by: KTC
Technician: MTW	Project Number: 166622



REVISIONS			
No.	Description	Date	By
A	ISSUED FOR 30% REVIEW	NOV. 2018	KTC
B	ISSUED FOR 60% REVIEW	MARCH 2019	KTC
C	ISSUED FOR PERMITS	MAY 2019	KTC
D	ISSUED FOR PERMIT REVIEW COMMENTS	AUG. 2019	KTC
E	ISSUED FOR BIDS	JAN. 2020	KTC
F	REVISED PER EASEMENT AGREEMENT	SEPT. 2020	KTC
G	RE-ISSUED FOR BIDS	NOV. 2020	KTC

Project Name:
**NEW HERITAGE
GRAVITY SEWER
PHASE 2**

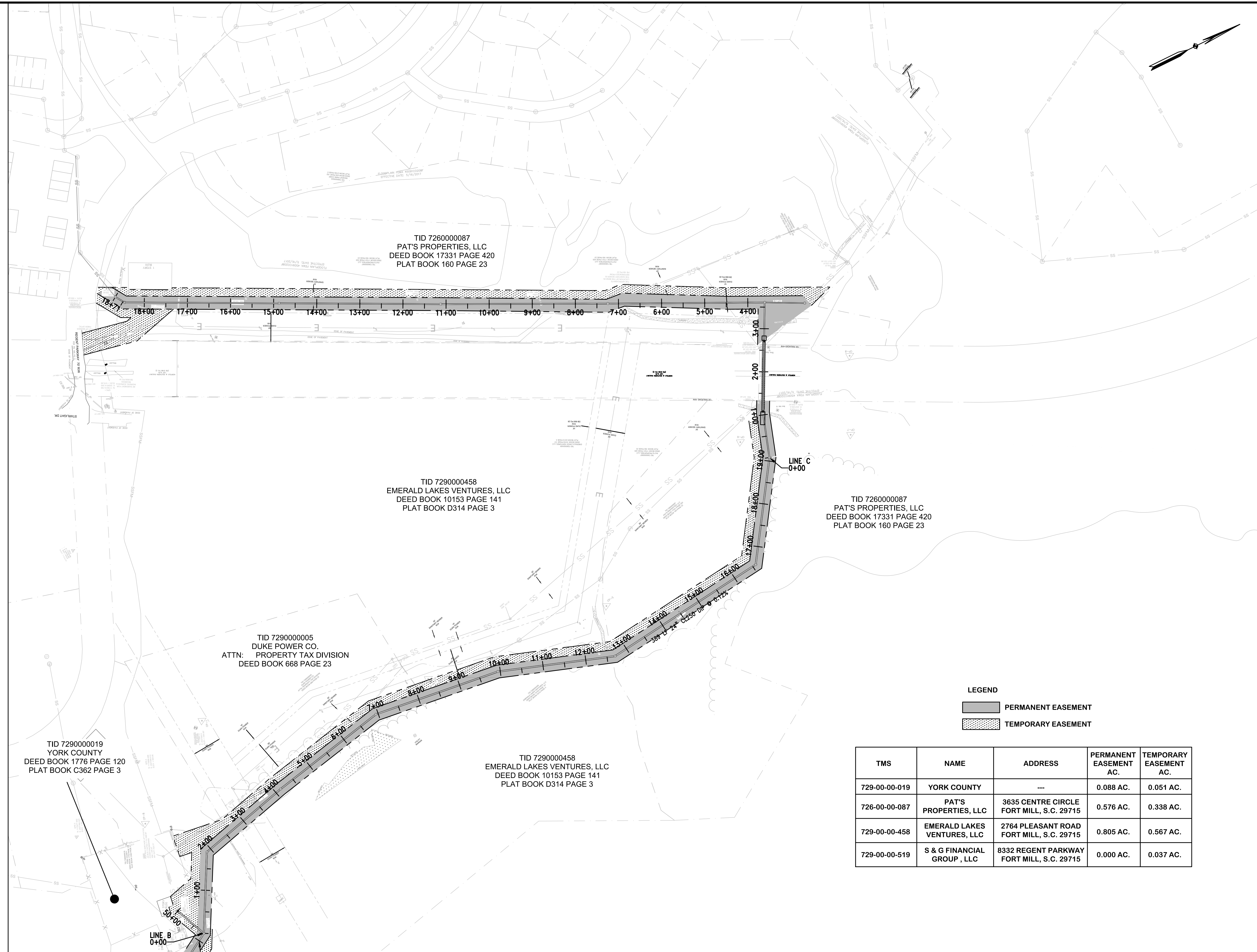
Drawing Name:
**RIGHT-OF-WAY MAP
LINES B & C**

Municipality Project Number:

Date: **NOVEMBER 2020** Division: **WATER/WASTEWATER**

Scale: **1"=100'** Sheet Number:

Drawing Number:
C1.4



TID 726000087
PAT'S PROPERTIES, LLC
DEED BOOK 17331 PAGE 420
PLAT BOOK 160 PAGE 23

TID 7290000458
EMERALD LAKES VENTURES, LLC
DEED BOOK 10153 PAGE 141
PLAT BOOK D314 PAGE 3

TID 726000087
PAT'S PROPERTIES, LLC
DEED BOOK 17331 PAGE 420
PLAT BOOK 160 PAGE 23

TID 7290000005
DUKE POWER CO.
ATTN: PROPERTY TAX DIVISION
DEED BOOK 668 PAGE 23

TID 7290000019
YORK COUNTY
DEED BOOK 1776 PAGE 120
PLAT BOOK C362 PAGE 3

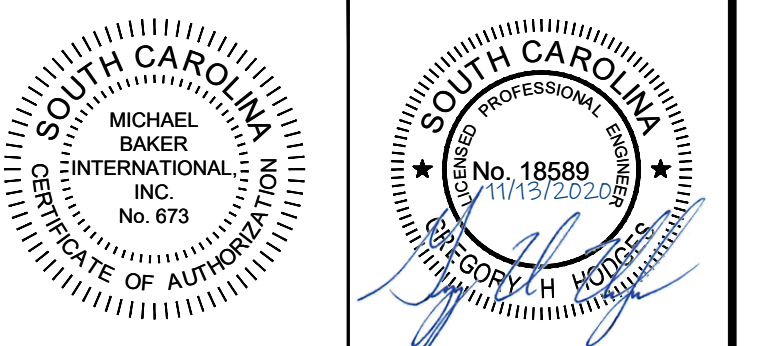
TID 7290000458
EMERALD LAKES VENTURES, LLC
DEED BOOK 10153 PAGE 141
PLAT BOOK D314 PAGE 3

LEGEND

	PERMANENT EASEMENT
	TEMPORARY EASEMENT

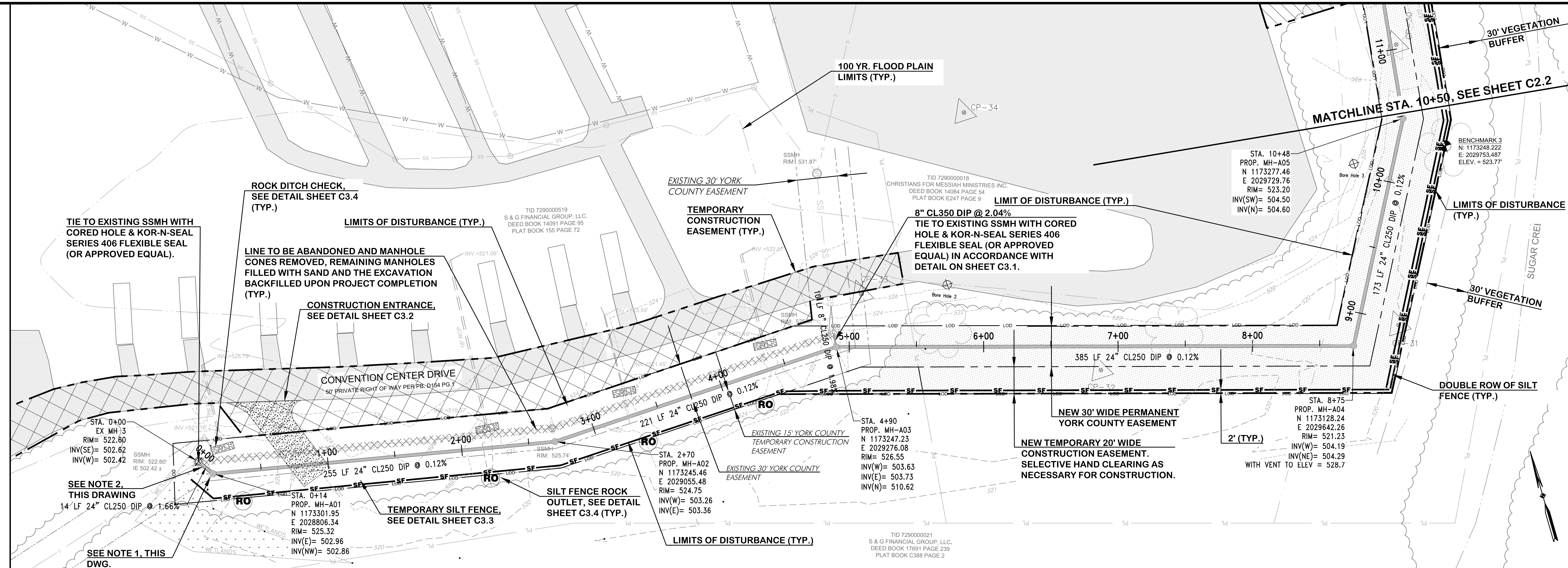
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729-00-00-019	YORK COUNTY	---	0.088 AC.	0.051 AC.
726-00-00-087	PAT'S PROPERTIES, LLC	3635 CENTRE CIRCLE FORT MILL, S.C. 29715	0.576 AC.	0.338 AC.
729-00-00-458	EMERALD LAKES VENTURES, LLC	2764 PLEASANT ROAD FORT MILL, S.C. 29715	0.805 AC.	0.567 AC.
729-00-00-519	S & G FINANCIAL GROUP, LLC	8332 REGENT PARKWAY FORT MILL, S.C. 29715	0.000 AC.	0.037 AC.

NOTE: *PARCEL LINES FOR NON-IMPACTED PROPERTIES ARE PROVIDED BY YORK COUNTY GIS AND MAY NOT ACCURATELY REFLECT LOT LINES.



Designer: GHH
Checked by: KTC
Technician: NWM
Project Number: 166622

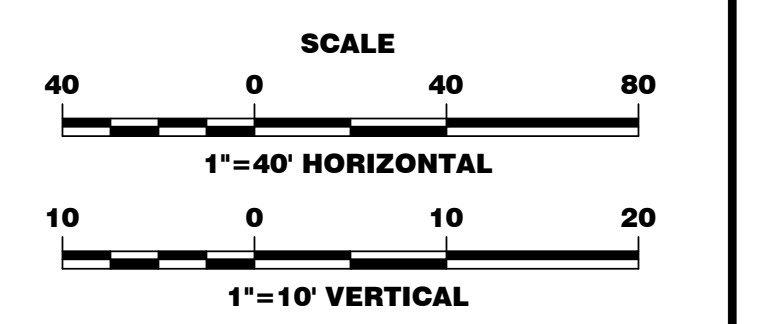
NOTE:
NO NEW GRADES ARE PROPOSED. ALL EXISTING GRADES TO REMAIN THE SAME. ALL DRAINAGE PATTERNS EXCEPT FOR REQUIRED DRAINAGE AROUND STRUCTURES TO REMAIN AND EXIT THE PROPERTY THE SAME AS EXISTING FLOW PATTERNS.



**LINE A
STA. 0+00 TO STA. 10+50 PLAN VIEW**

- 1: LINE A TO BE CONSTRUCTED FROM STA. 0+00 TO 50+04, TESTED, AND READIED TO PLACE INTO SERVICE BEFORE CONNECTION TO EXISTING SEWER AND EXIST. MANHOLE. COST TO BYPASS PUMP TO BE INCIDENTAL TO COST OF SEWER INSTALLATION.
- 2: EXCAVATION AND DISTURBANCE IN WETLAND AREA TO BE MINIMIZED. EXCAVATION SPOILS NOT TO BE PLACED BACK IN WETLAND AREA.

NOTE: *PARCEL LINES FOR NON-IMPACTED PROPERTIES ARE PROVIDED BY YORK COUNTY GIS AND MAY NOT ACCURATELY REFLECT LOT LINES.

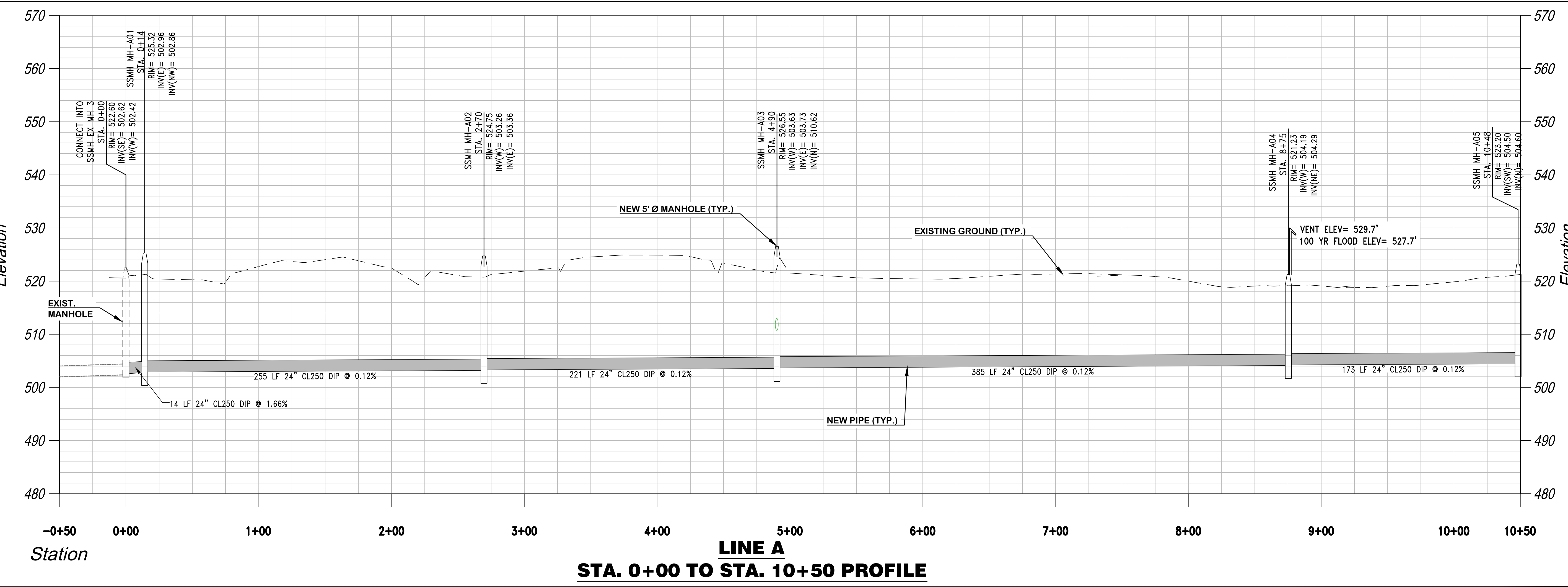


No.	Description	Date	By
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B	ISSUED FOR 60% REVIEW	MARCH 2019	KTC
C	ISSUED FOR PERMITS	MAY 2019	KTC
D	ISSUED FOR PERMIT REVIEW COMMENTS	AUG. 2019	KTC
E	ISSUED FOR BIDS	JAN. 2020	KTC
F	REVISED PER EASEMENT AGREEMENT	SEPT. 2020	KTC
G	RE-ISSUED FOR BIDS	NOV. 2020	KTC

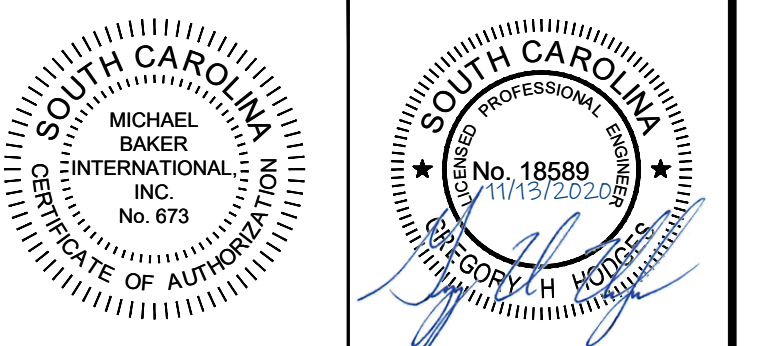
Project Name:
NEW HERITAGE GRAVITY SEWER PHASE 2

Drawing Name:
PLAN AND PROFILE LINE A STA. 0+00 TO STA. 10+50

Municipality Project Number:
Date: NOVEMBER 2020
Scale: HORIZ.: 1"=40'
VERT.: 1"=10'
Division: WATER/WASTEWATER
Sheet Number:
Drawing Number:
C2.1

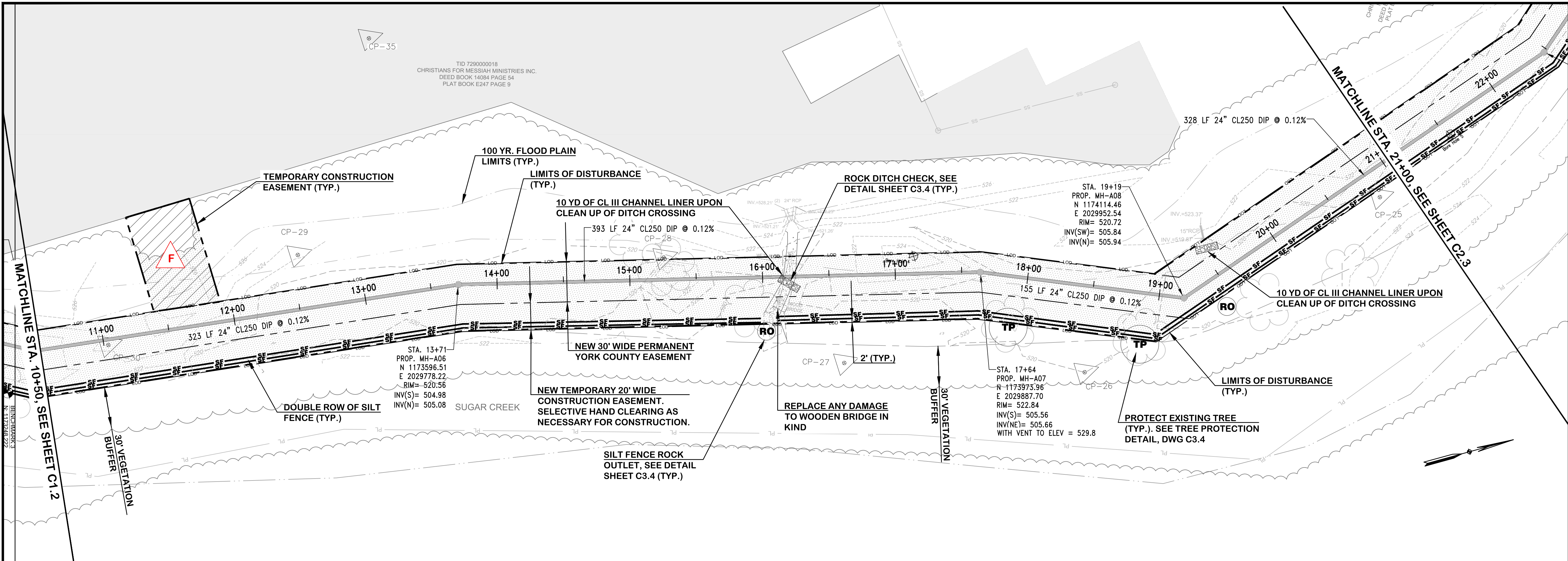


**LINE A
STA. 0+00 TO STA. 10+50 PROFILE**



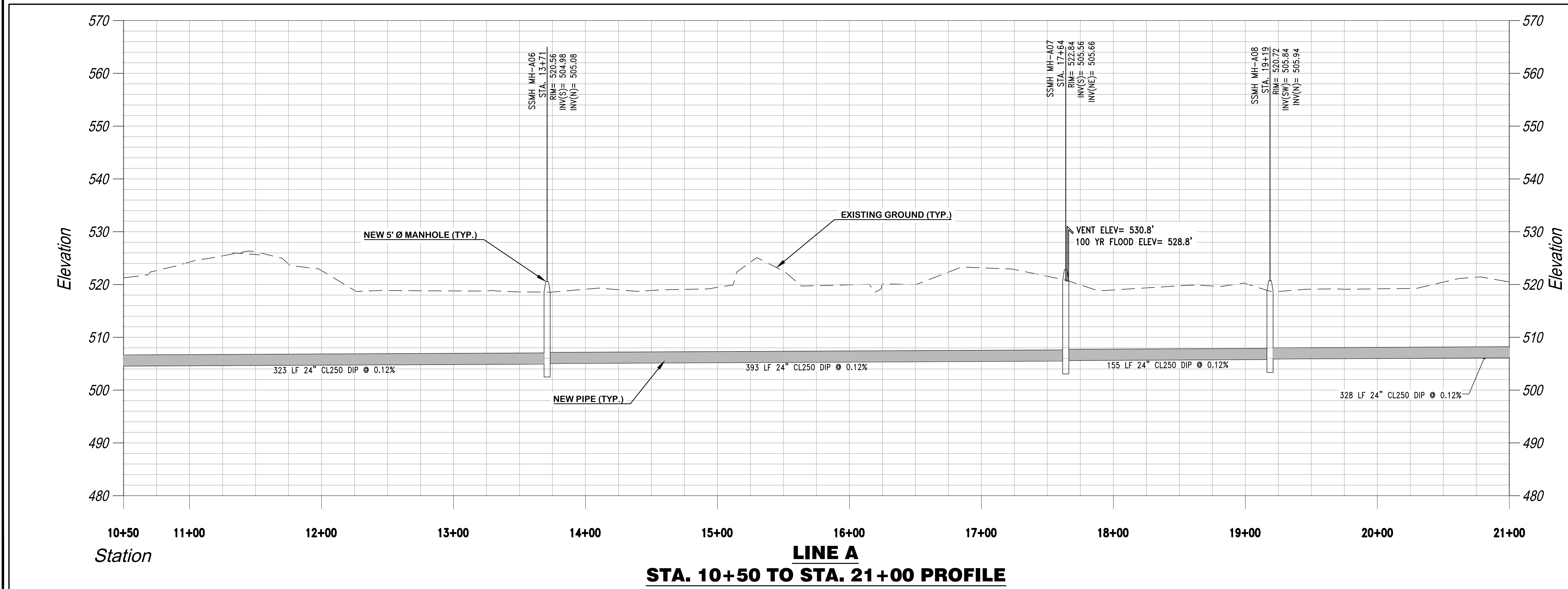
Designer: GHH
Checked by: KTC
Technician: NWM
Project Number: 166622

NOTE:
NO NEW GRADES ARE PROPOSED. ALL EXISTING GRADES TO REMAIN THE SAME. ALL DRAINAGE PATTERNS EXCEPT FOR REQUIRED DRAINAGE AROUND STRUCTURES TO REMAIN AND EXIT THE PROPERTY THE SAME AS EXISTING FLOW PATTERNS.

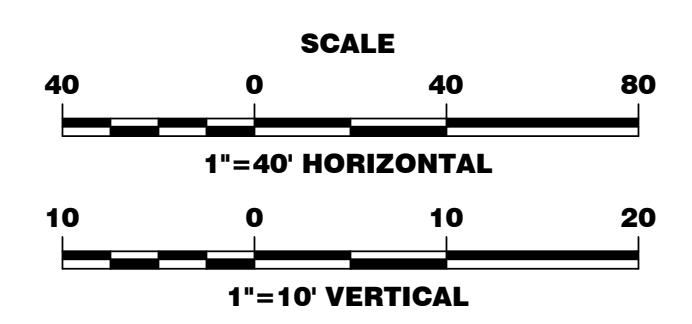


**LINE A
STA. 10+50 TO STA. 21+00 PLAN VIEW**

NOTE: *PARCEL LINES FOR NON-IMPACTED PROPERTIES ARE PROVIDED BY YORK COUNTY GIS AND MAY NOT ACCURATELY REFLECT LOT LINES.



**LINE A
STA. 10+50 TO STA. 21+00 PROFILE**

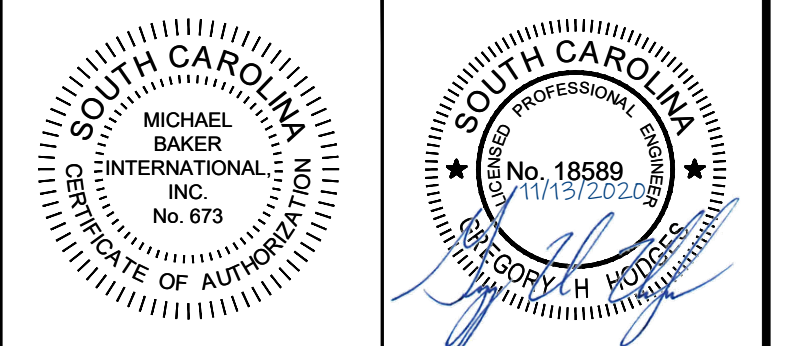


REVISIONS			
No.	Description	Date	By
A	ISSUED FOR 30% REVIEW	NOV. 2018	KTC
B	ISSUED FOR 60% REVIEW	MARCH 2019	KTC
C	ISSUED FOR PERMITS	MAY 2019	KTC
D	ISSUED FOR PERMIT REVIEW COMMENTS	AUG. 2019	KTC
E	ISSUED FOR BIDS	JAN. 2020	KTC
F	REVISED PER EASEMENT AGREEMENT	SEPT. 2020	KTC
G	RE-ISSUED FOR BIDS	NOV. 2020	KTC

Project Name:
**NEW HERITAGE
GRAVITY SEWER
PHASE 2**

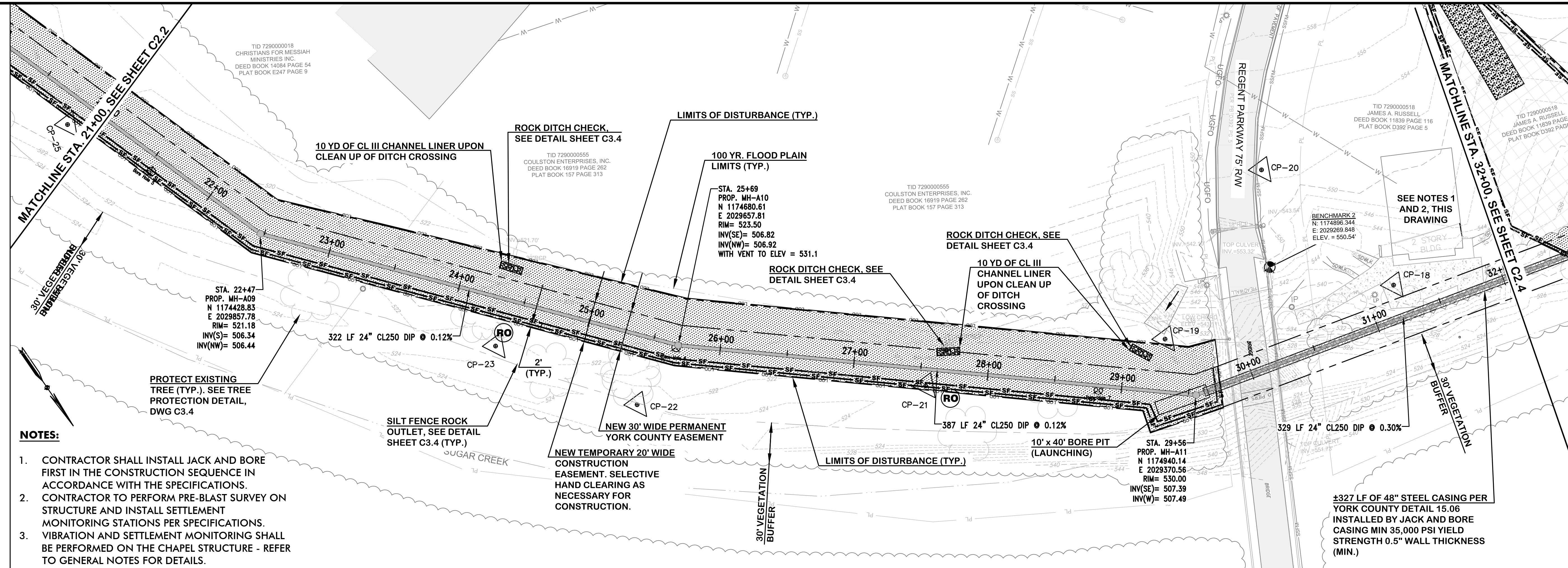
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**PLAN AND PROFILE
LINE A
STA. 10+50 TO STA. 21+00**

Municipality Project Number:
Date: NOVEMBER 2020
Scale: HORIZ.: 1"=40'
VERT.: 1"=10'
Division: WATER/WASTEWATER
Sheet Number:
Drawing Number:
C2.2



Designer: GHH
Checked by: KTC
Technician: NWM
Project Number: 166622

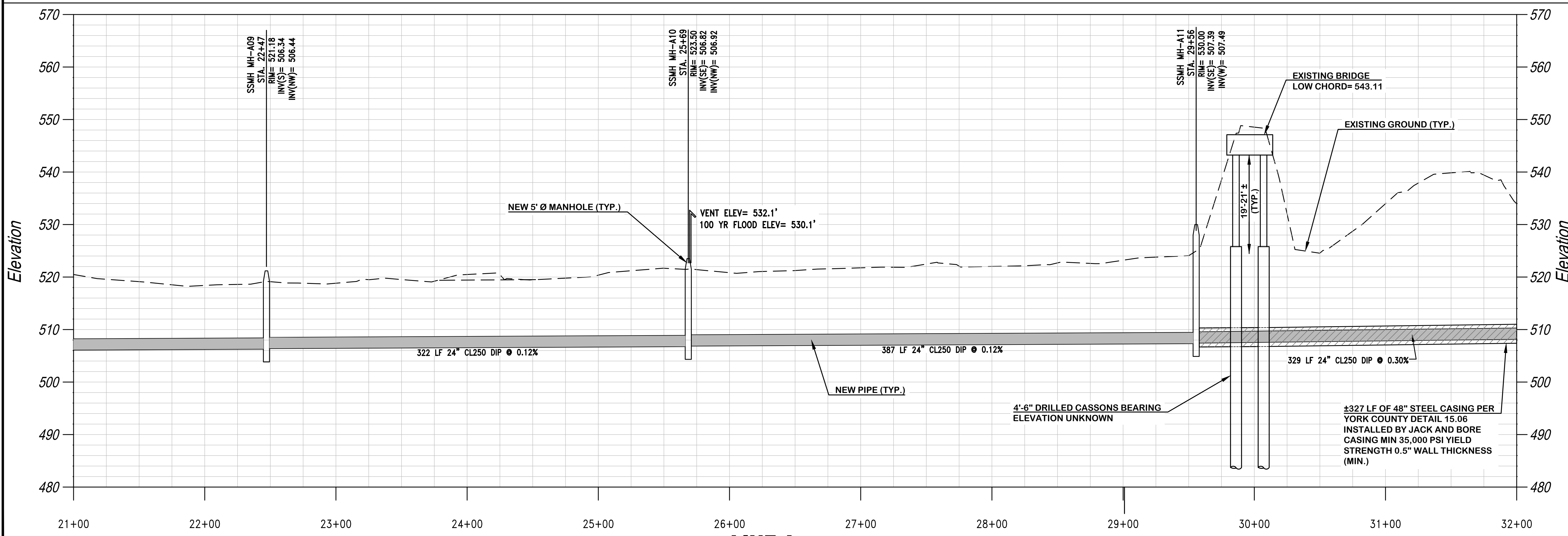
NOTE:
NO NEW GRADES ARE PROPOSED. ALL EXISTING GRADES TO REMAIN THE SAME. ALL DRAINAGE PATTERNS EXCEPT FOR REQUIRED DRAINAGE AROUND STRUCTURES TO REMAIN AND EXIT THE PROPERTY THE SAME AS EXISTING FLOW PATTERNS.



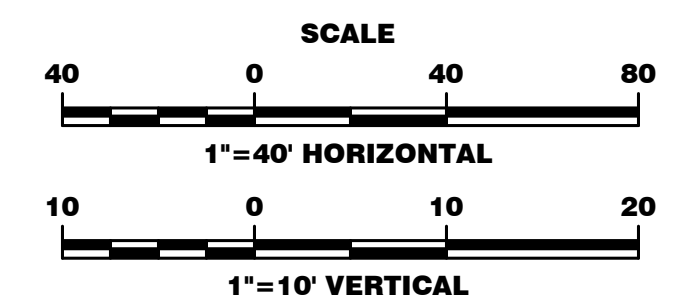
- NOTES:**
- CONTRACTOR SHALL INSTALL JACK AND BORE FIRST IN THE CONSTRUCTION SEQUENCE IN ACCORDANCE WITH THE SPECIFICATIONS.
 - CONTRACTOR TO PERFORM PRE-BLAST SURVEY ON STRUCTURE AND INSTALL SETTLEMENT MONITORING STATIONS PER SPECIFICATIONS.
 - VIBRATION AND SETTLEMENT MONITORING SHALL BE PERFORMED ON THE CHAPEL STRUCTURE - REFER TO GENERAL NOTES FOR DETAILS.

**LINE A
STA. 21+00 TO STA. 32+00 PLAN VIEW**

NOTE: *PARCEL LINES FOR NON-IMPACTED PROPERTIES ARE PROVIDED BY YORK COUNTY GIS AND MAY NOT ACCURATELY REFLECT LOT LINES.



**LINE A
STA. 21+00 TO STA. 32+00 PROFILE**



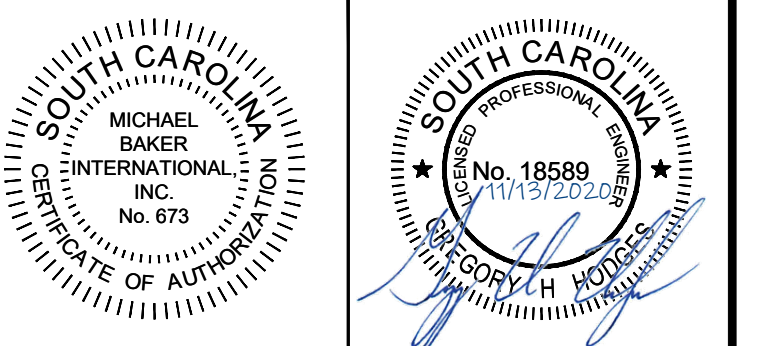
REVISIONS			
No.	Description	Date	By
A	ISSUED FOR 30% REVIEW	NOV. 2018	KTC
B	ISSUED FOR 60% REVIEW	MARCH 2019	KTC
C	ISSUED FOR PERMITS	MAY 2019	KTC
D	ISSUED FOR PERMIT REVIEW COMMENTS	AUG. 2019	KTC
E	ISSUED FOR BIDS	JAN. 2020	KTC
F	REVISED PER EASEMENT AGREEMENT	SEPT. 2020	KTC
G	RE-ISSUED FOR BIDS	NOV. 2020	KTC

Project Name: **NEW HERITAGE GRAVITY SEWER PHASE 2**

Drawing Name: **PLAN AND PROFILE LINE A STA. 21+00 TO STA. 32+00**

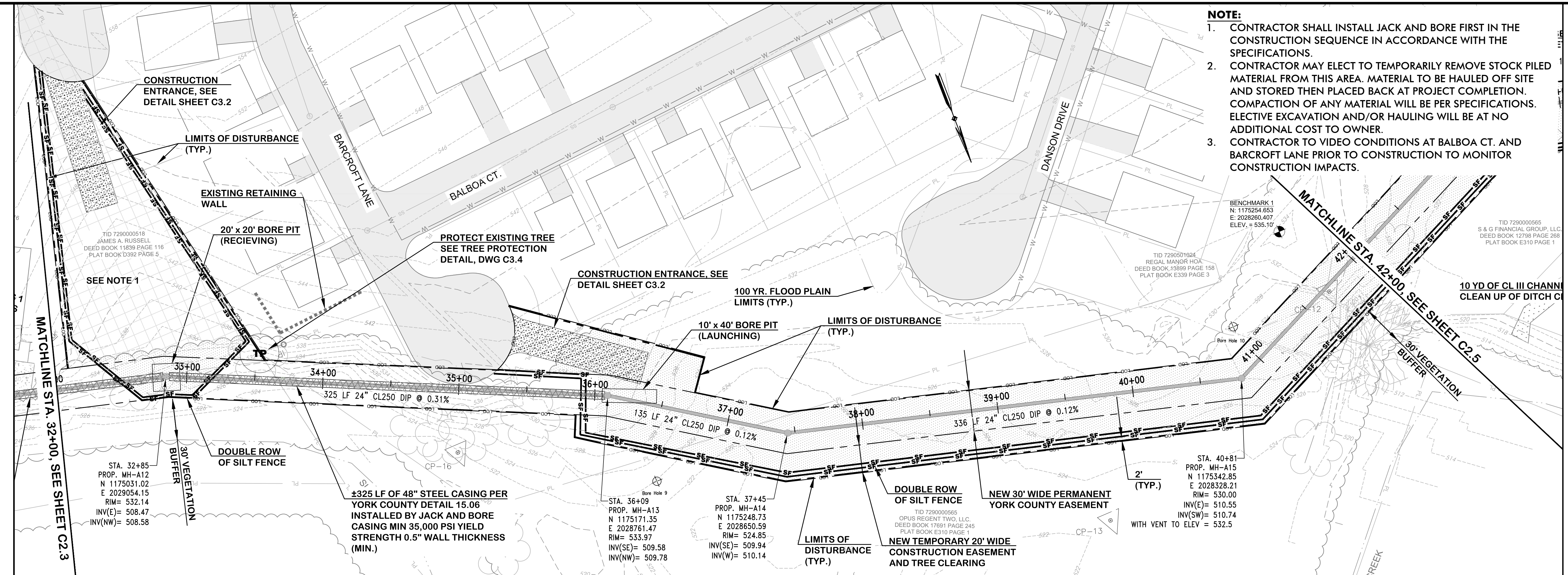
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Date: NOVEMBER 2020
Scale: HORIZ.: 1"=40'
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Division: WATER/WASTEWATER
Sheet Number:
Drawing Number: **C2.3**



Designer: GHH
Checked by: KTC
Technician: NWM
Project Number: 166622

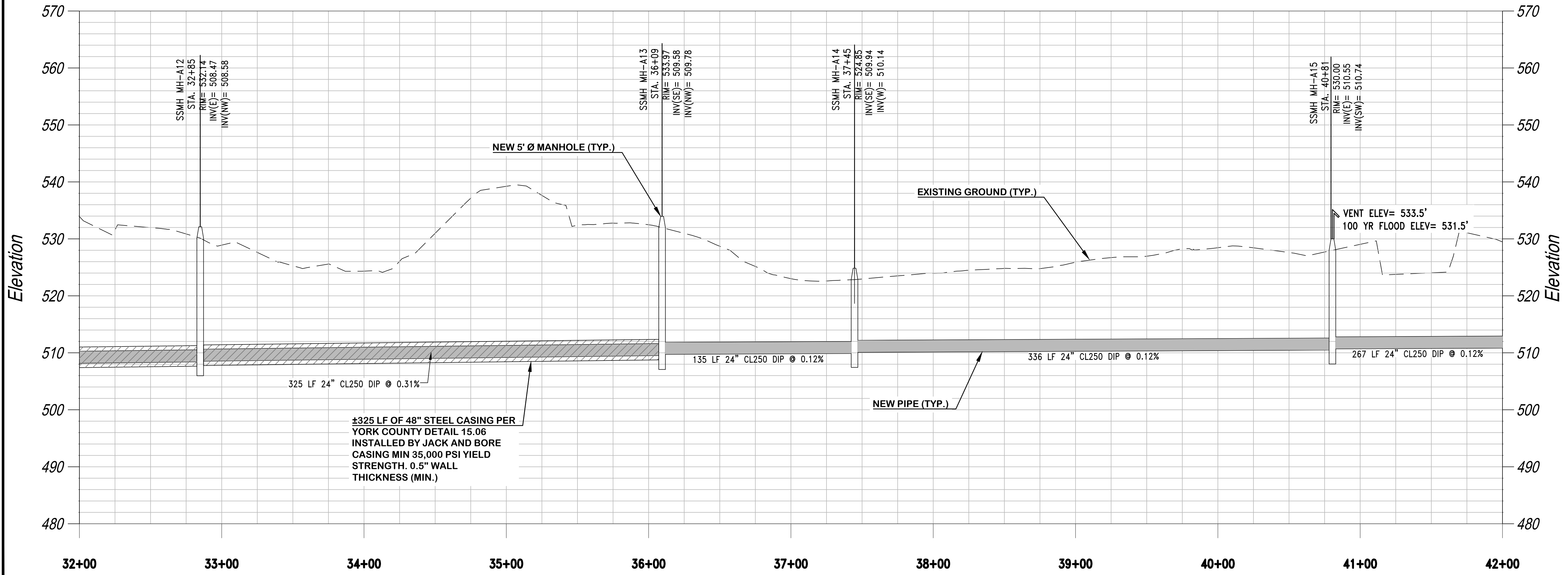
NOTE:
NO NEW GRADES ARE PROPOSED. ALL EXISTING GRADES TO REMAIN THE SAME. ALL DRAINAGE PATTERNS EXCEPT FOR REQUIRED DRAINAGE AROUND STRUCTURES TO REMAIN AND EXIT THE PROPERTY THE SAME AS EXISTING FLOW PATTERNS.



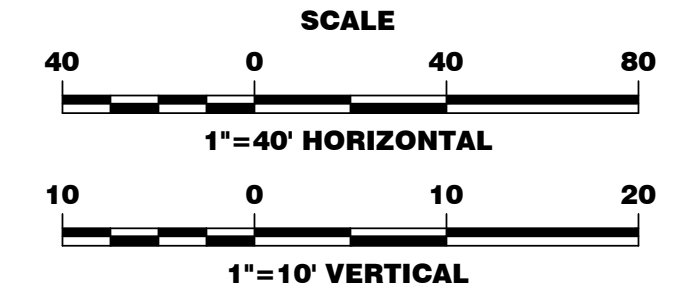
- NOTE:**
- CONTRACTOR SHALL INSTALL JACK AND BORE FIRST IN THE CONSTRUCTION SEQUENCE IN ACCORDANCE WITH THE SPECIFICATIONS.
 - CONTRACTOR MAY ELECT TO TEMPORARILY REMOVE STOCK PILED MATERIAL FROM THIS AREA. MATERIAL TO BE HAUL OFF SITE AND STORED THEN PLACED BACK AT PROJECT COMPLETION. COMPACTION OF ANY MATERIAL WILL BE PER SPECIFICATIONS. ELECTIVE EXCAVATION AND/OR HAULING WILL BE AT NO ADDITIONAL COST TO OWNER.
 - CONTRACTOR TO VIDEO CONDITIONS AT BALBOA CT. AND BARCROFT LANE PRIOR TO CONSTRUCTION TO MONITOR CONSTRUCTION IMPACTS.

**LINE A
STA. 32+00 TO STA. 42+00 PLAN VIEW**

NOTE 1:
*PARCEL LINES FOR NON-IMPACTED PROPERTIES ARE PROVIDED BY YORK COUNTY GIS AND MAY NOT ACCURATELY REFLECT LOT LINES.



**LINE A
STA. 32+00 TO STA. 42+00 PROFILE**



REVISIONS			
No.	Description	Date	By
A	ISSUED FOR 30% REVIEW	NOV. 2018	KTC
B	ISSUED FOR 60% REVIEW	MARCH 2019	KTC
C	ISSUED FOR PERMITS	MAY 2019	KTC
D	ISSUED FOR PERMIT REVIEW COMMENTS	AUG. 2019	KTC
E	ISSUED FOR BIDS	JAN. 2020	KTC
F	REVISED PER EASEMENT AGREEMENT	SEPT. 2020	KTC
G	RE-ISSUED FOR BIDS	NOV. 2020	KTC

Project Name:
NEW HERITAGE GRAVITY SEWER PHASE 2

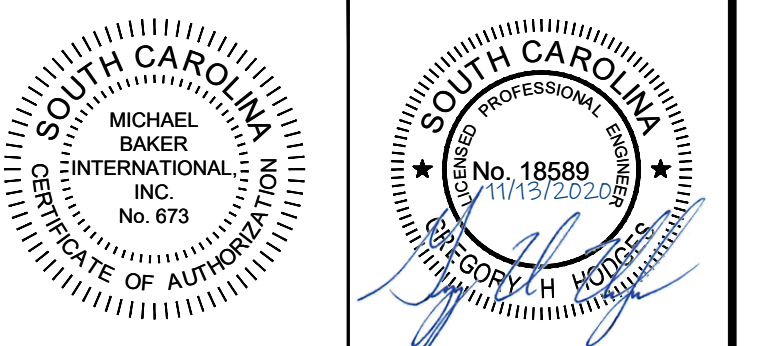
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Municipality Project Number:

Date: NOVEMBER 2020
Division: WATER/WASTEWATER

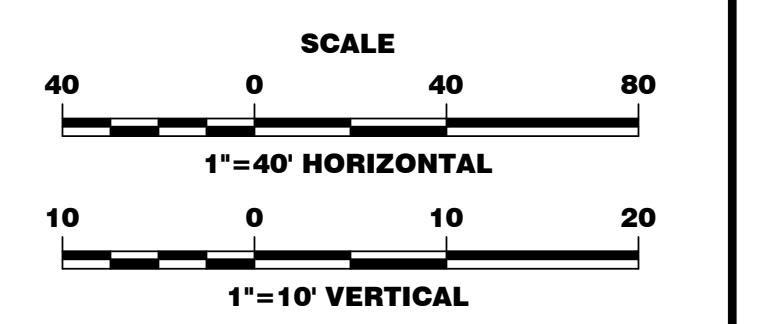
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VERT.: 1"=10'
Drawing Number:
C2.4



Designer: GHH
Checked by: KTC
Technician: NWM
Project Number: 166622

NOTE:
NO NEW GRADES ARE PROPOSED. ALL EXISTING GRADES TO REMAIN THE SAME. ALL DRAINAGE PATTERNS EXCEPT FOR REQUIRED DRAINAGE AROUND STRUCTURES TO REMAIN AND EXIT THE PROPERTY THE SAME AS EXISTING FLOW PATTERNS.

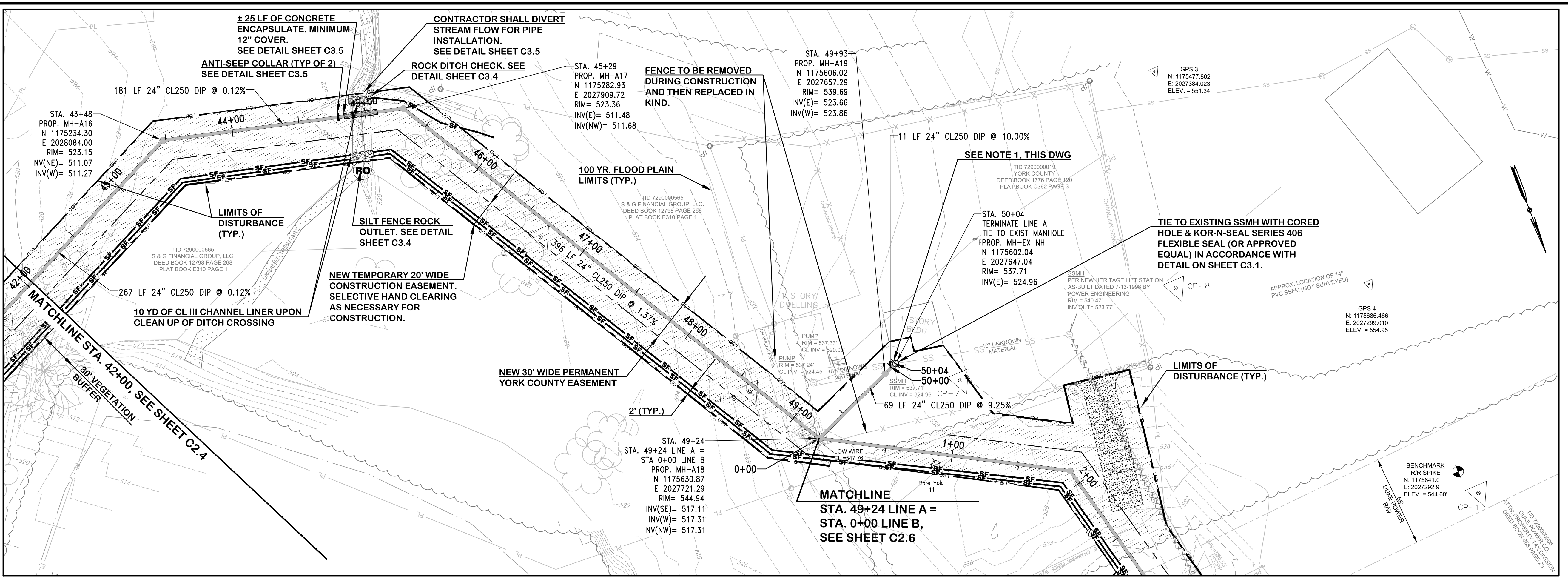


No.	Description	Date	By
A	ISSUED FOR 30% REVIEW	NOV. 2018	KTC
B	ISSUED FOR 60% REVIEW	MARCH 2019	KTC
C	ISSUED FOR PERMITS	MAY 2019	KTC
D	ISSUED FOR PERMIT REVIEW COMMENTS	AUG. 2019	KTC
E	ISSUED FOR BIDS	JAN. 2020	KTC
F	REVISED PER EASEMENT AGREEMENT	SEPT. 2020	KTC
G	RE-ISSUED FOR BIDS	NOV. 2020	KTC

Project Name:
NEW HERITAGE GRAVITY SEWER PHASE 2

Drawing Name:
PLAN AND PROFILE LINE A STA. 42+00 TO STA. 50+04

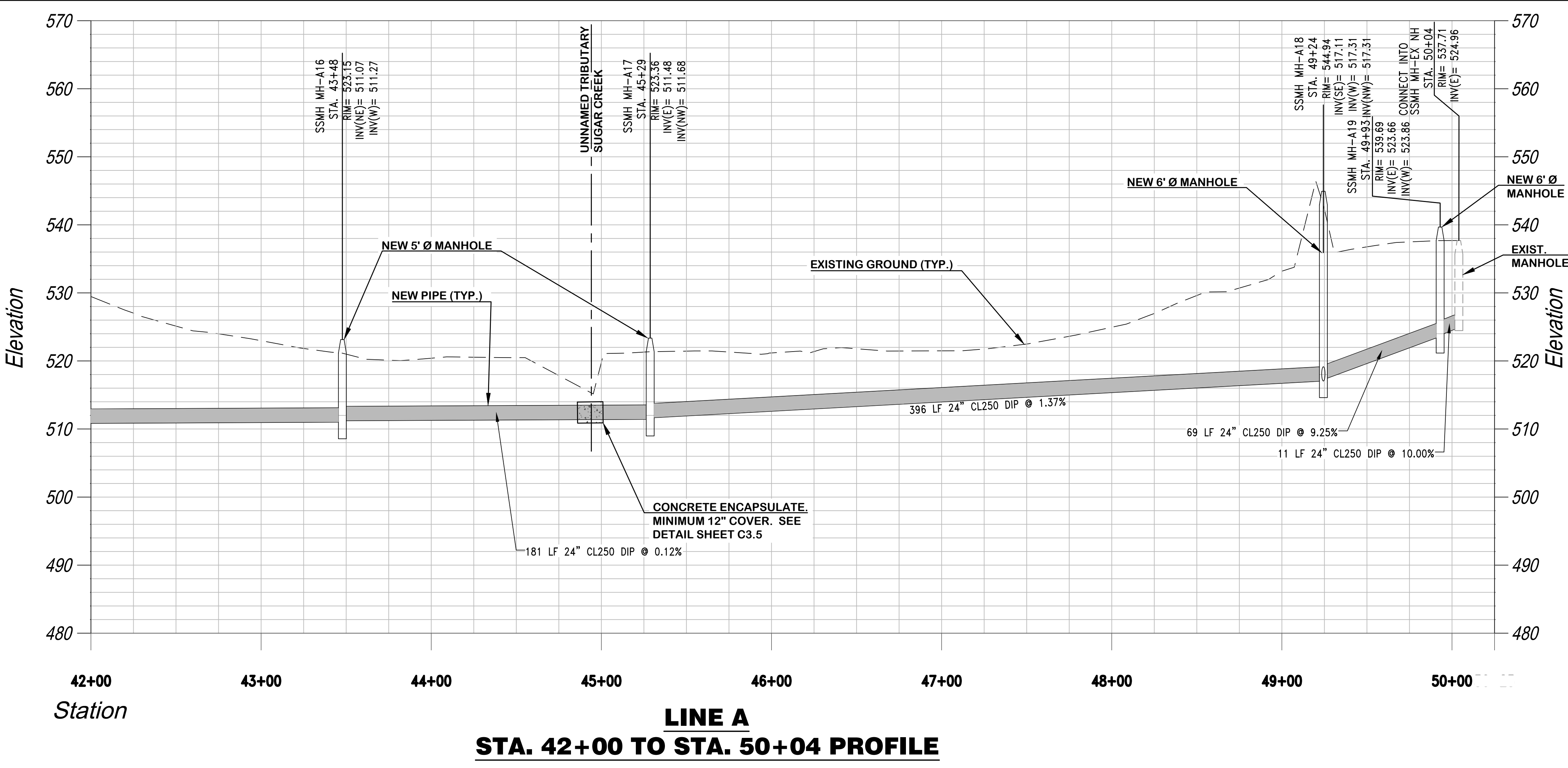
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Sheet Number:
Drawing Number:
C2.5



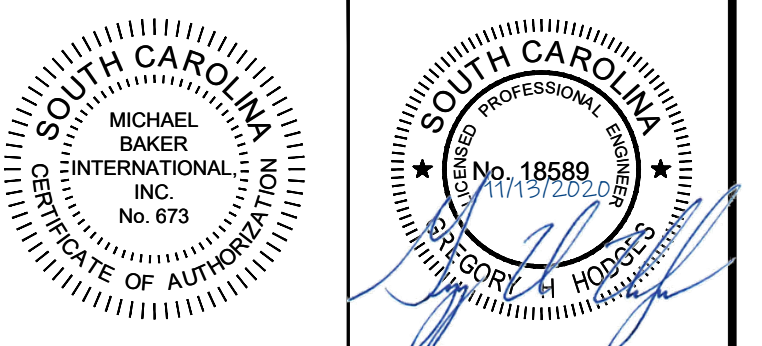
NOTE:
*PARCEL LINES FOR NON-IMPACTED PROPERTIES ARE PROVIDED BY YORK COUNTY GIS AND MAY NOT ACCURATELY REFLECT LOT LINES.

**LINE A
STA. 42+00 TO STA. 50+00 PLAN VIEW**

- 1: LINE A TO BE CONSTRUCTED FROM STA. 0+00 TO 50+04, TESTED, AND READIED TO PLACE INTO SERVICE BEFORE CONNECTION TO EXISTING MANHOLE. COST TO BYPASS PUMP TO BE INCIDENTAL TO COST OF SEWER TIE-IN.
- 2: CONTRACTOR TO VERIFY ALL INCOMING LINES, MANHOLES AND INVERTS FOR ACCURACY WITHIN LIMITS OF EXISTING PUMP STATION PRIOR TO COMMENCING CONSTRUCTION.

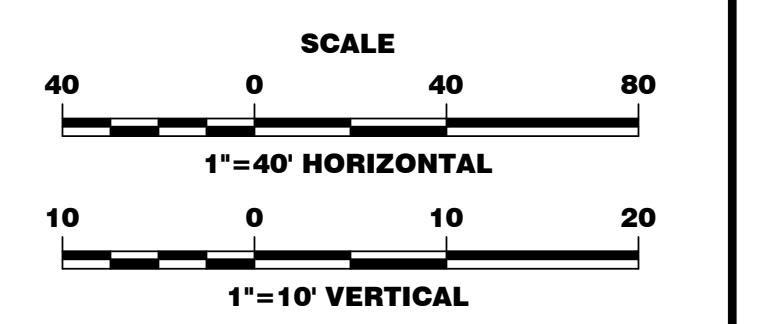


**LINE A
STA. 42+00 TO STA. 50+04 PROFILE**



Designer: GHH
Checked by: KTC
Technician: NWM
Project Number: 166622

NOTE:
NO NEW GRADES ARE PROPOSED. ALL EXISTING GRADES TO REMAIN THE SAME. ALL DRAINAGE PATTERNS EXCEPT FOR REQUIRED DRAINAGE AROUND STRUCTURES TO REMAIN AND EXIT THE PROPERTY THE SAME AS EXISTING FLOW PATTERNS.



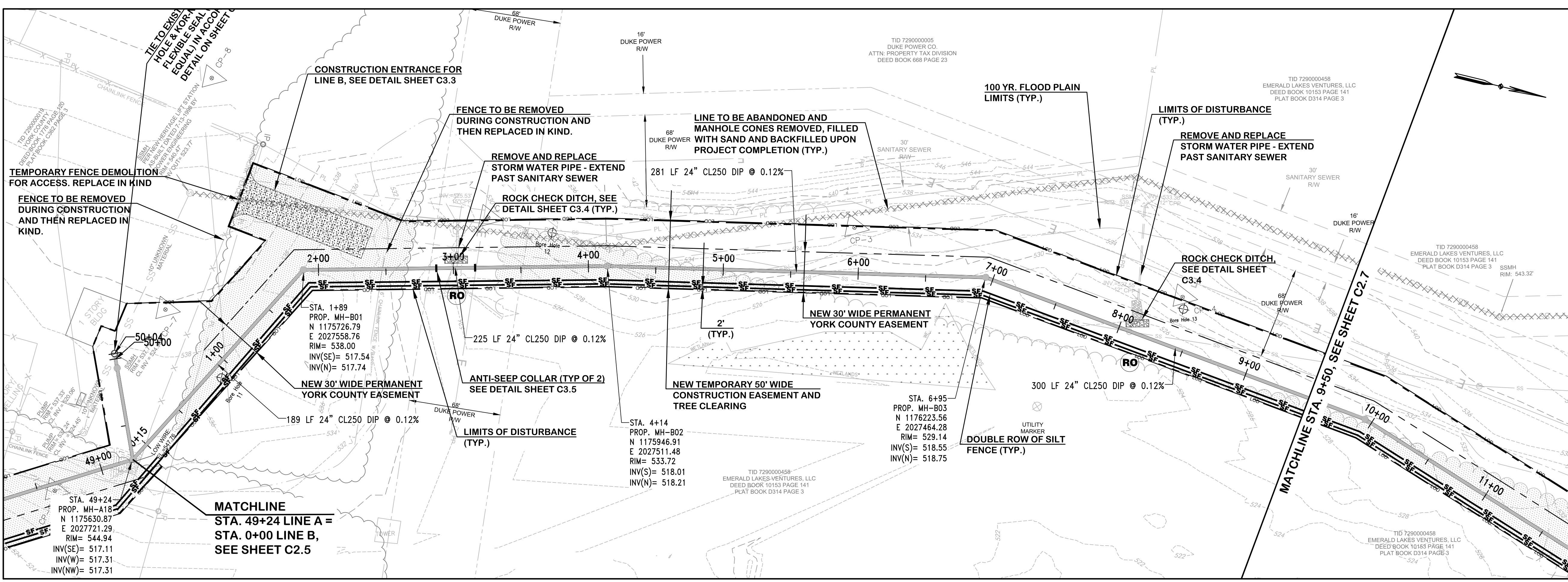
No.	Description	Date	By
A	ISSUED FOR 30% REVIEW	NOV. 2018	KTC
B	ISSUED FOR 60% REVIEW	MARCH 2019	KTC
C	ISSUED FOR PERMITS	MAY 2019	KTC
D	ISSUED FOR PERMIT REVIEW COMMENTS	AUG. 2019	KTC
E	ISSUED FOR BIDS	JAN. 2020	KTC
F	REVISED PER EASEMENT AGREEMENT	SEPT. 2020	KTC
G	RE-ISSUED FOR BIDS	NOV. 2020	KTC

Project Name:
NEW HERITAGE GRAVITY SEWER PHASE 2

Drawing Name:
PLAN AND PROFILE LINE B STA. 0+00 TO STA. 9+50

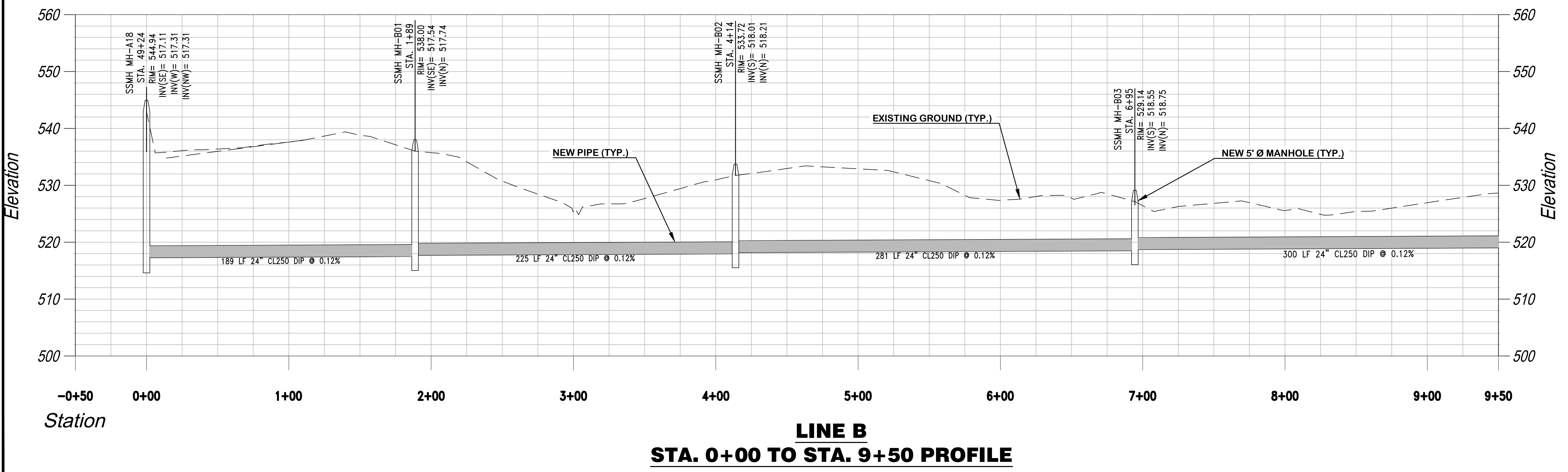
Municipality Project Number:

Date: NOVEMBER 2020
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Drawing Number:
C2.6

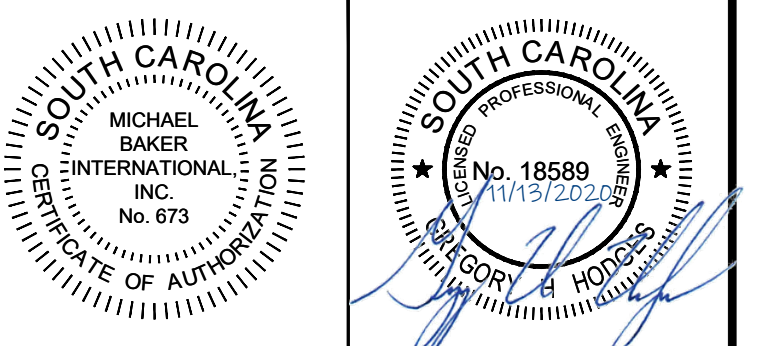


**LINE B
STA. 0+00 TO STA. 9+50 PLAN VIEW**

NOTE:
*PARCEL LINES FOR NON-IMPACTED PROPERTIES ARE PROVIDED BY YORK COUNTY GIS AND MAY NOT ACCURATELY REFLECT LOT LINES.

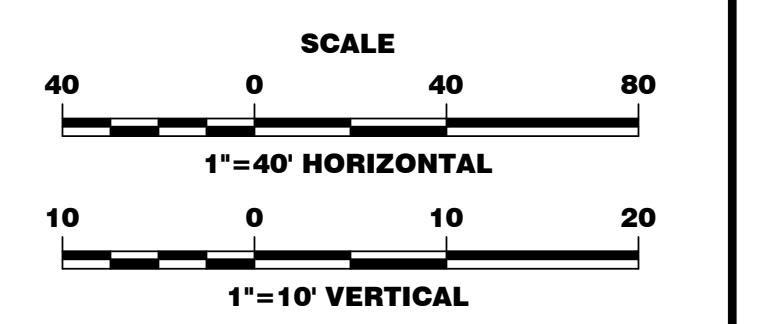


**LINE B
STA. 0+00 TO STA. 9+50 PROFILE**



Designer: GHH
Checked by: KTC
Technician: NWM
Project Number: 166622

NOTE:
NO NEW GRADES ARE PROPOSED. ALL EXISTING GRADES TO REMAIN THE SAME. ALL DRAINAGE PATTERNS EXCEPT FOR REQUIRED DRAINAGE AROUND STRUCTURES TO REMAIN AND EXIT THE PROPERTY THE SAME AS EXISTING FLOW PATTERNS.

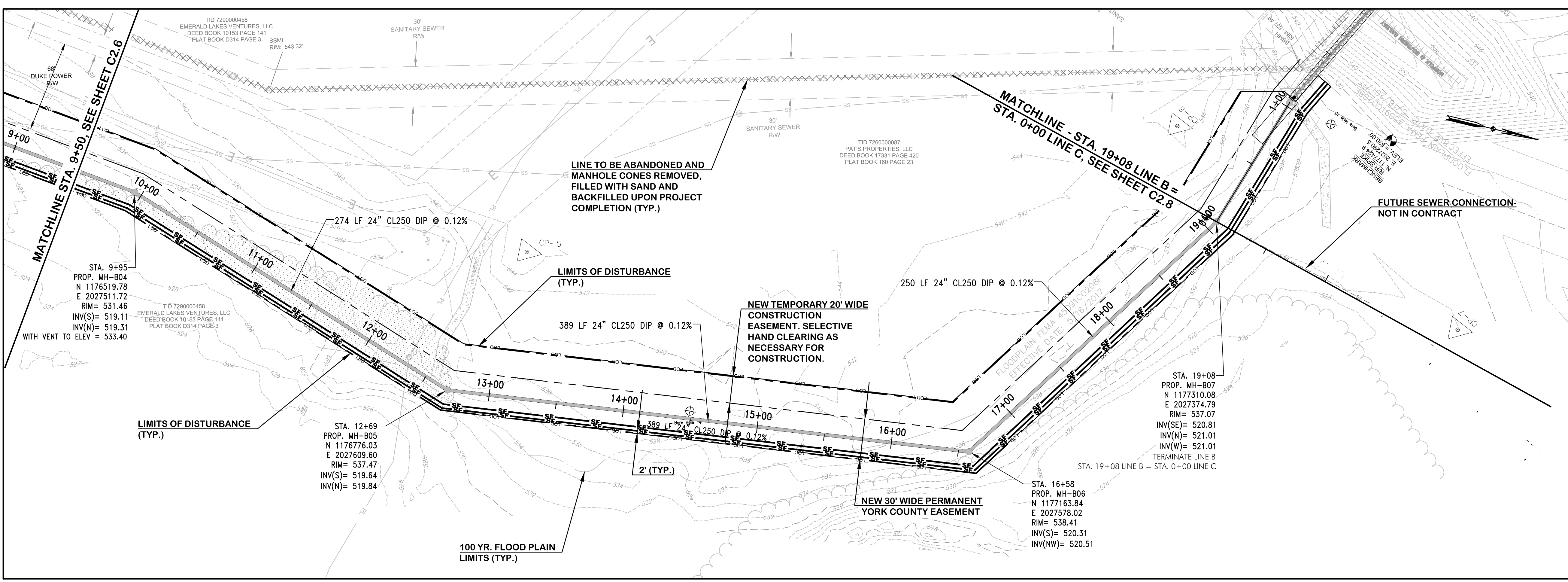


No.	Description	Date	By
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B	ISSUED FOR 60% REVIEW	MARCH 2019	KTC
C	ISSUED FOR PERMITS	MAY 2019	KTC
D	ISSUED FOR PERMIT REVIEW COMMENTS	AUG. 2019	KTC
E	ISSUED FOR BIDS	JAN. 2020	KTC
F	REVISED PER EASEMENT AGREEMENT	SEPT. 2020	KTC
G	RE-ISSUED FOR BIDS	NOV. 2020	KTC

Project Name:
NEW HERITAGE GRAVITY SEWER PHASE 2

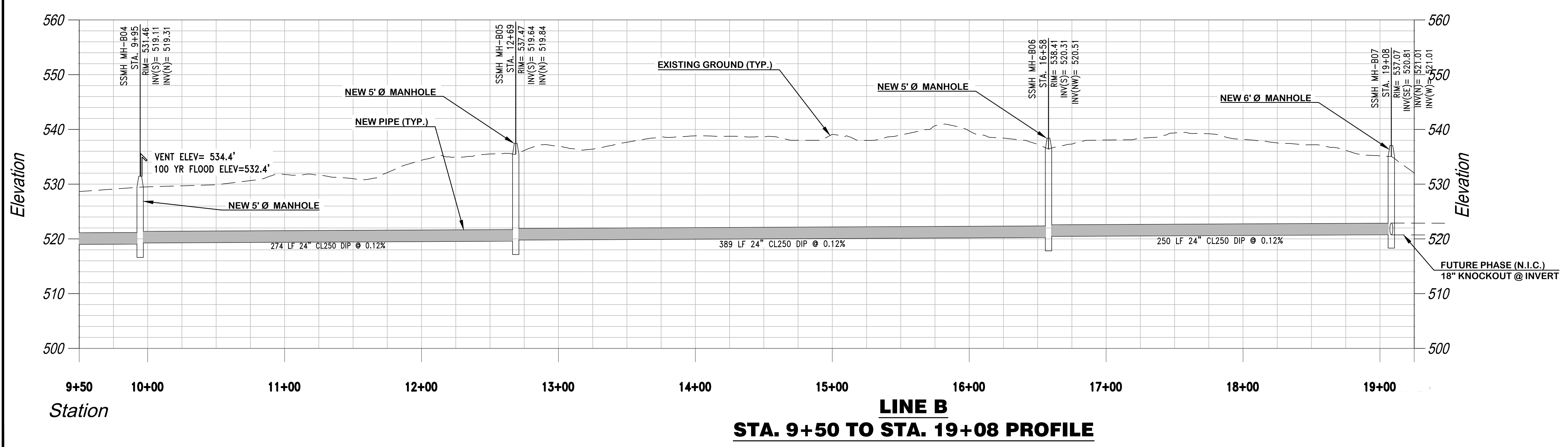
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PLAN AND PROFILE LINE B STA. 9+50 TO STA. 19+08

Municipality Project Number:
Date: NOVEMBER 2020
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VERT.: 1"=10'
Division: WATER/WASTEWATER
Sheet Number:
Drawing Number:
C2.7



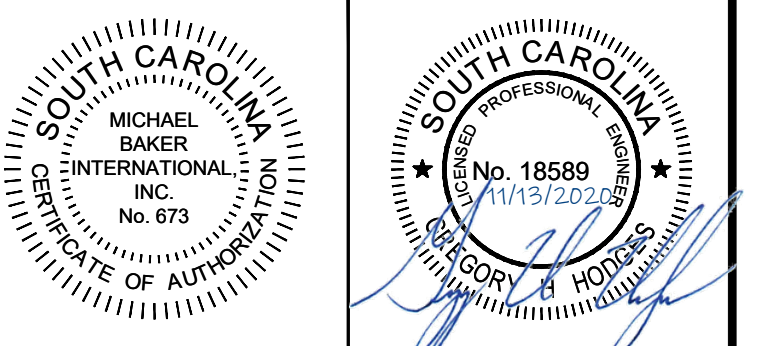
**LINE B
STA. 9+50 TO STA. 19+08 PLAN VIEW**

NOTE:
*PARCEL LINES FOR NON-IMPACTED PROPERTIES ARE PROVIDED BY YORK COUNTY GIS AND MAY NOT ACCURATELY REFLECT LOT LINES.



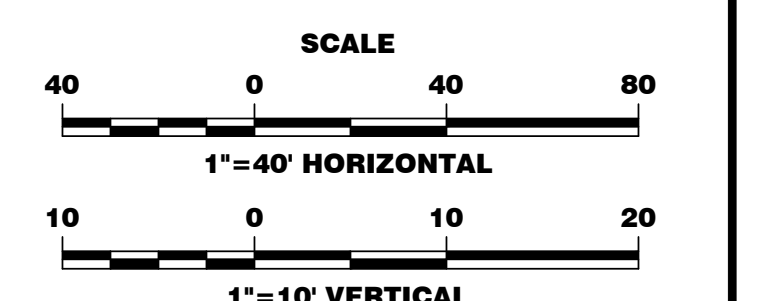
**LINE B
STA. 9+50 TO STA. 19+08 PROFILE**

W:\166622 - new heritage p12 gravity sewer\02-drawings\Cris-3D1166622 - New Heritage Ph 2 X-Design.dwg Modified: Nov 13, 2020 - 9:48am Plotted: Nov 17, 2020 - 3:48pm Meghan Franco



Designer: GHH
Checked by: KTC
Technician: NWM
Project Number: 166622

NOTE:
NO NEW GRADES ARE PROPOSED. ALL EXISTING GRADES TO REMAIN THE SAME. ALL DRAINAGE PATTERNS EXCEPT FOR REQUIRED DRAINAGE AROUND STRUCTURES TO REMAIN AND EXIT THE PROPERTY THE SAME AS EXISTING FLOW PATTERNS.

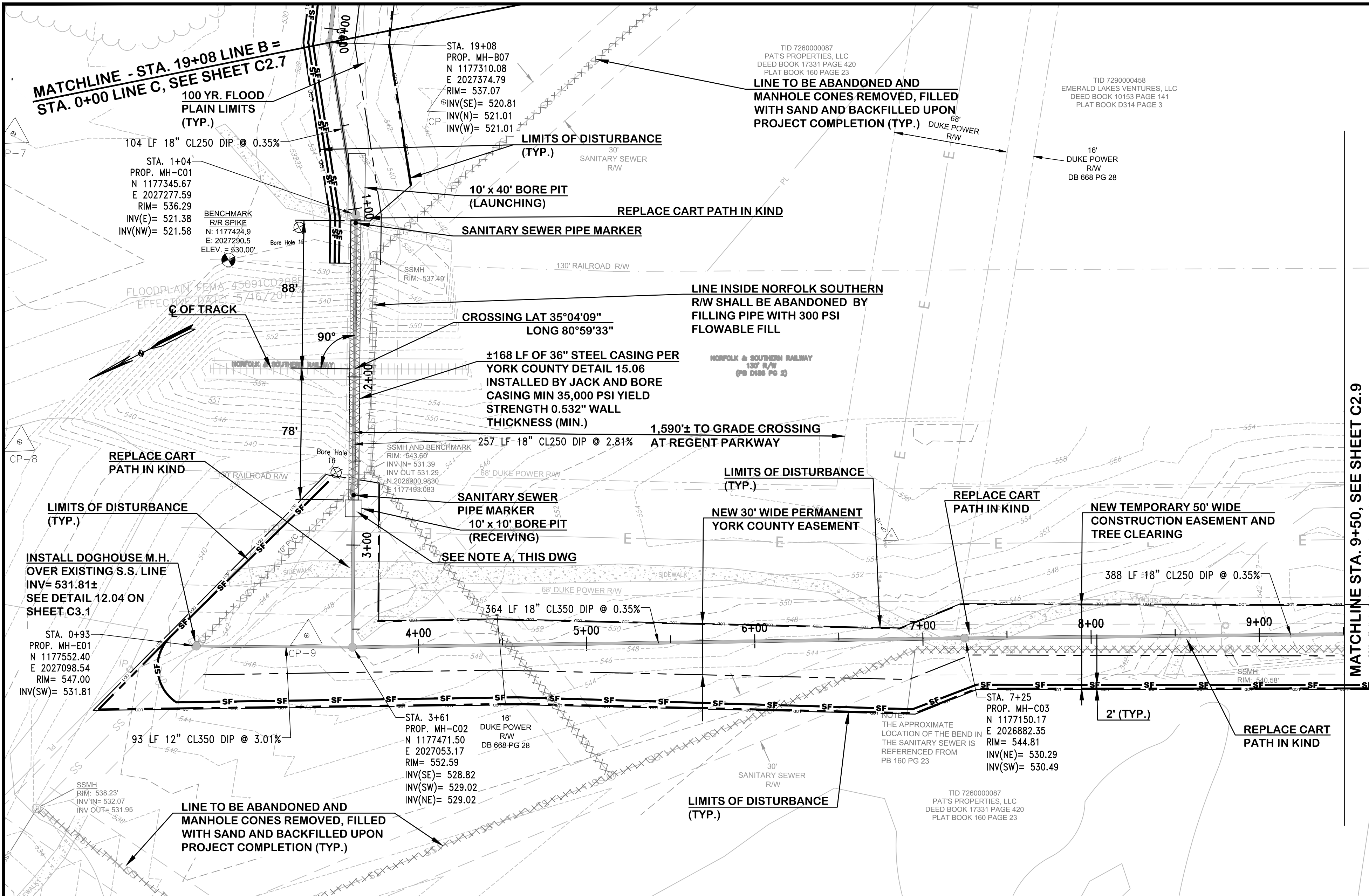


No.	Description	Date	By
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B	ISSUED FOR 60% REVIEW	MARCH 2019	KTC
C	ISSUED FOR PERMITS	MAY 2019	KTC
D	ISSUED FOR PERMIT REVIEW COMMENTS	AUG. 2019	KTC
E	ISSUED FOR BIDS	JAN. 2020	KTC
F	REVISED PER EASEMENT AGREEMENT	SEPT. 2020	KTC
G	RE-ISSUED FOR BIDS	NOV. 2020	KTC

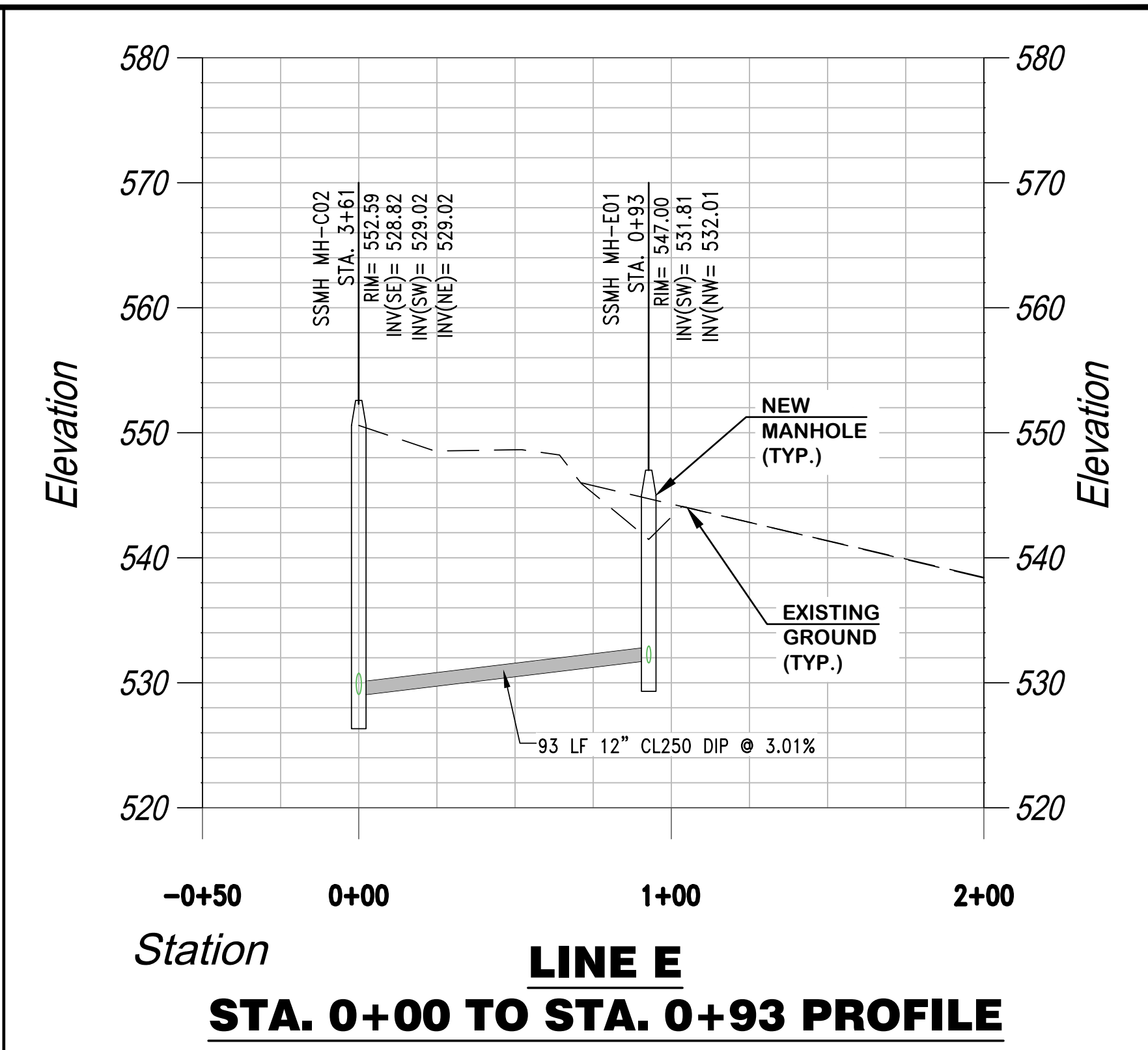
Project Name:
NEW HERITAGE GRAVITY SEWER PHASE 2

Drawing Name:
PLAN AND PROFILE LINE C STA. 0+00 TO STA. 9+50

Municipality Project Number:
Date: NOVEMBER 2020
Scale: HORIZ.: 1"=40'
VERT.: 1"=10'
Division: WATER/WASTEWATER
Sheet Number:
Drawing Number:
C2.8



**LINE C
STA. 0+00 TO STA. 9+50 PLAN VIEW**

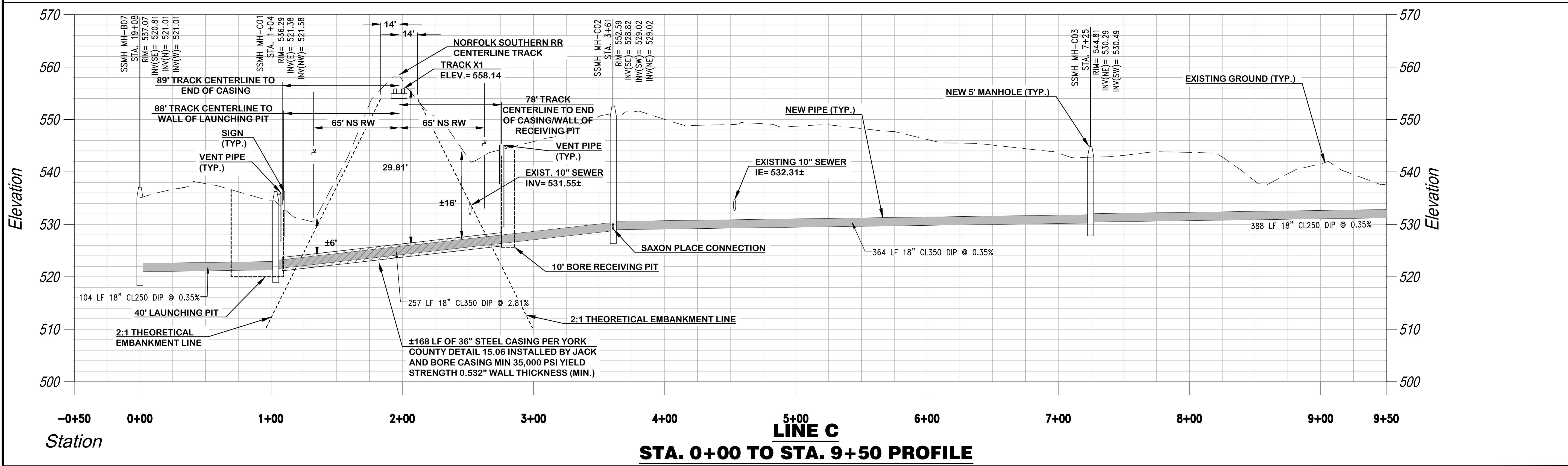


**LINE E
STA. 0+00 TO STA. 0+93 PROFILE**

NOTE:
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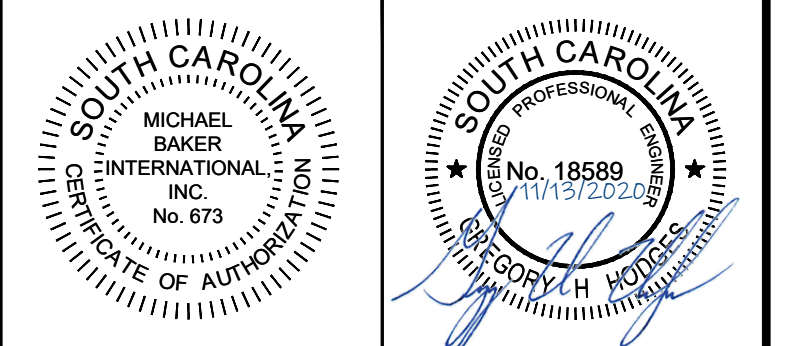
NOTE A:
SEWER LINES FROM LINE B 0+00 TO LINE C 3+71 AND LINE E TO 0+93 TO BE CONSTRUCTED, TESTED AND READY FOR OPERATION PRIOR TO TYING IN TO MH-C02 AND RECEIVING LINE SEWERS. COST OF BYPASS PUMPING TO BE INCIDENTAL TO TIE-INS.

- NORFOLK SOUTHERN REQUIREMENT NOTE:**
1. CONTRACTOR SHALL FOLLOW ALL REQUIREMENTS OF NORFOLK SOUTHERNS NSCE-8 SPECIFICATION.
 2. PIPELINE AND CROSSING TO BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH LAST APPROVED AMERICAN RAILWAY ENGINEERING AND MAINTENANCE OF WAY ASSOCIATION SPECIFICATION FOR PIPELINES CONVEYING FLAMMABLE AND NON-FLAMMABLE SUBSTANCES.
 3. BLASTING NOT PERMITTED.
 4. IF EXCAVATION WITHIN THEORETICAL RAILROAD EMBANKMENT ZONE: SHEETING REQUIRED.



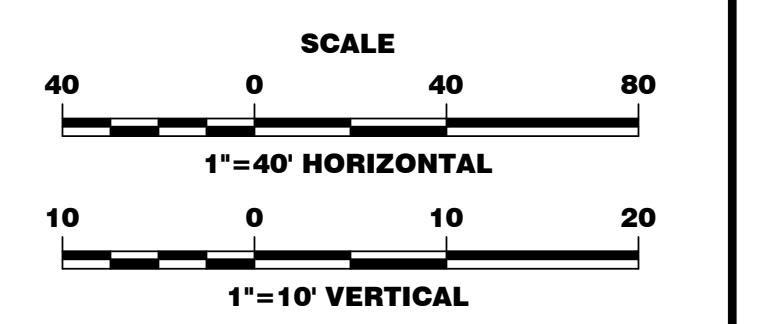
**LINE C
STA. 0+00 TO STA. 9+50 PROFILE**

W:\166622 - new heritage p12_gravity sewer\02-drawings\Civil\3D\166622 - New Heritage Ph 2\X-cad\dwg Modified: Nov 13, 2020 - 9:48am Plotted: Nov 17, 2020 - 2:23pm Meghan Franco



Designer: GHH
Checked by: KTC
Technician: NWM
Project Number: 166622

NOTE:
NO NEW GRADES ARE PROPOSED. ALL EXISTING GRADES TO REMAIN THE SAME. ALL DRAINAGE PATTERNS EXCEPT FOR REQUIRED DRAINAGE AROUND STRUCTURES TO REMAIN AND EXIT THE PROPERTY THE SAME AS EXISTING FLOW PATTERNS.

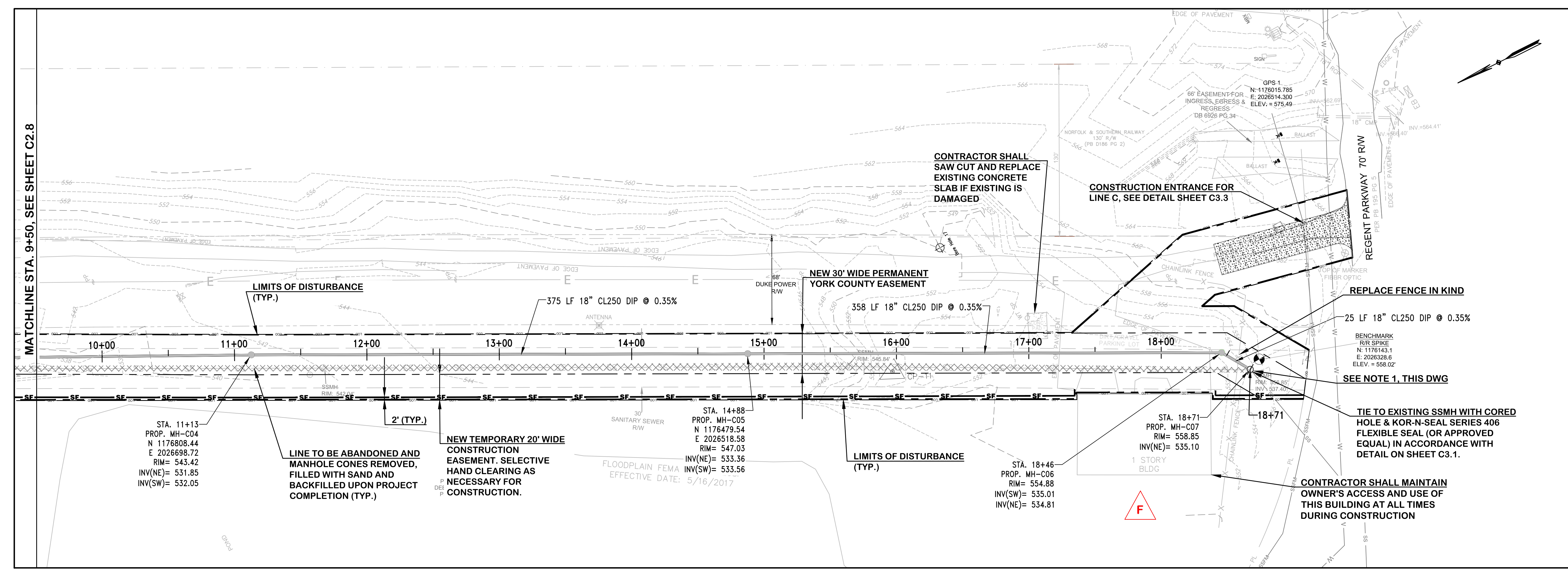


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F	REVISED PER EASEMENT AGREEMENT	SEPT. 2020	KTC
G	RE-ISSUED FOR BIDS	NOV. 2020	KTC

Project Name:
NEW HERITAGE GRAVITY SEWER PHASE 2

Drawing Name:
PLAN AND PROFILE LINE C STA. 9+50 TO STA. 18+71

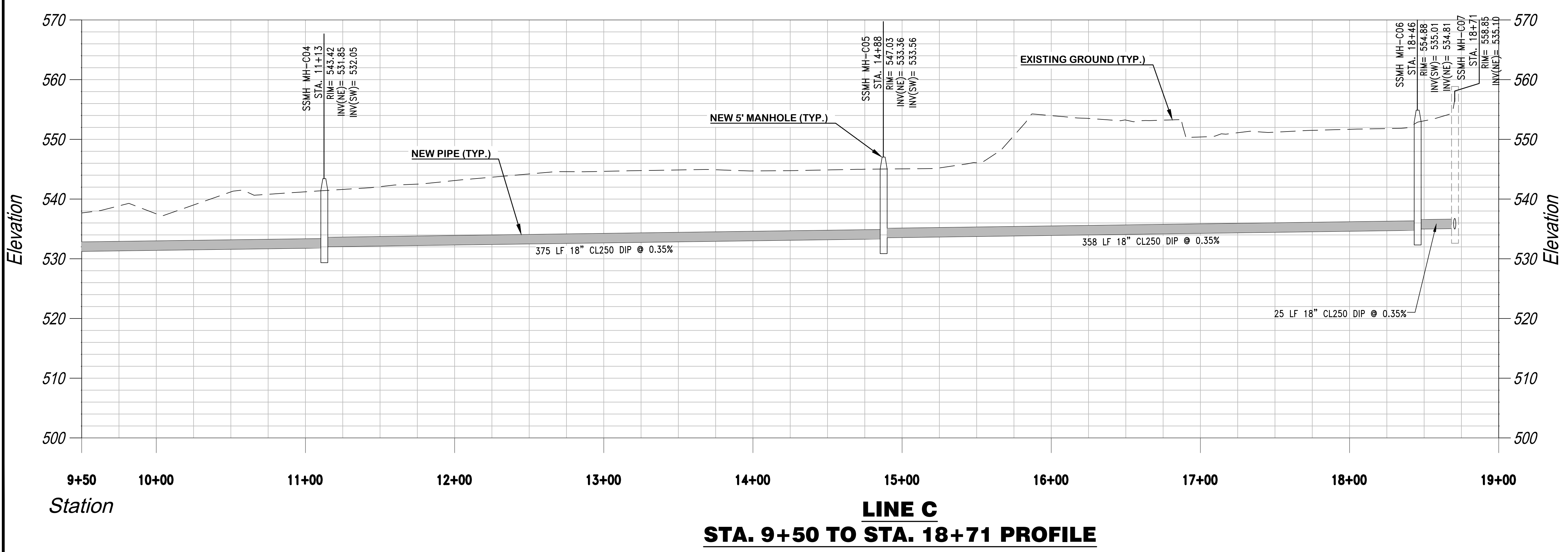
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Date: NOVEMBER 2020
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VERT.: 1"=10'
Division: WATER/WASTEWATER
Sheet Number:
Drawing Number:
C2.9



**LINE C
STA. 9+50 TO STA. 18+71 PLAN VIEW**

NOTE:
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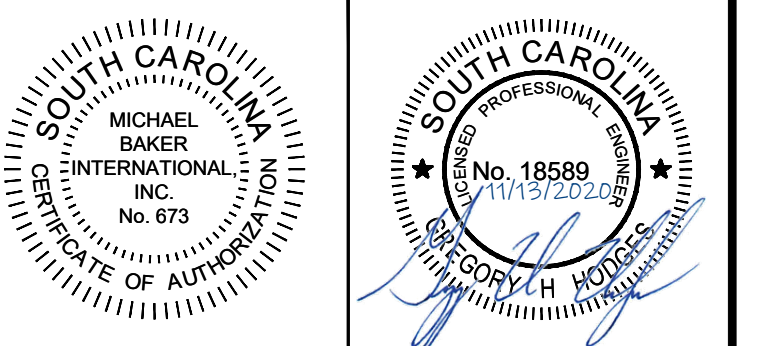
NOTE 1:
LINE C TO BE CONSTRUCTED, TESTED AND READIED FOR OPERATION UP TO STA 18+46 (MH-C06) CONTRACTOR TO REPLACE EXISTING MANHOLE (MH-07) AND TIE TO NEW LINE C. COST OF BYPASS PUMPING TO BE INCIDENTAL TO COST OF SEWER TIE-INS.



**LINE C
STA. 9+50 TO STA. 18+71 PROFILE**

YORK COUNTY
ROCK HILL, SOUTH CAROLINA

Michael Baker
INTERNATIONAL
Michael Baker International
700 Huger Street
Columbia, South Carolina 29201



Designer: **GHH** Checked by: **KTC**
Technician: **MTW/NWM** Project Number: **166622**

REVISIONS			
No.	Description	Date	By
A	ISSUED FOR 30% REVIEW	NOV. 2018	KTC
B	ISSUED FOR 60% REVIEW	MARCH 2019	KTC
C	ISSUED FOR PERMITS	MAY 2019	KTC
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E	ISSUED FOR BIDS	JAN. 2020	KTC
F	REVISED PER EASEMENT AGREEMENT	SEPT. 2020	KTC
G	RE-ISSUED FOR BIDS	NOV. 2020	KTC

Project Name: **NEW HERITAGE GRAVITY SEWER PHASE 2**

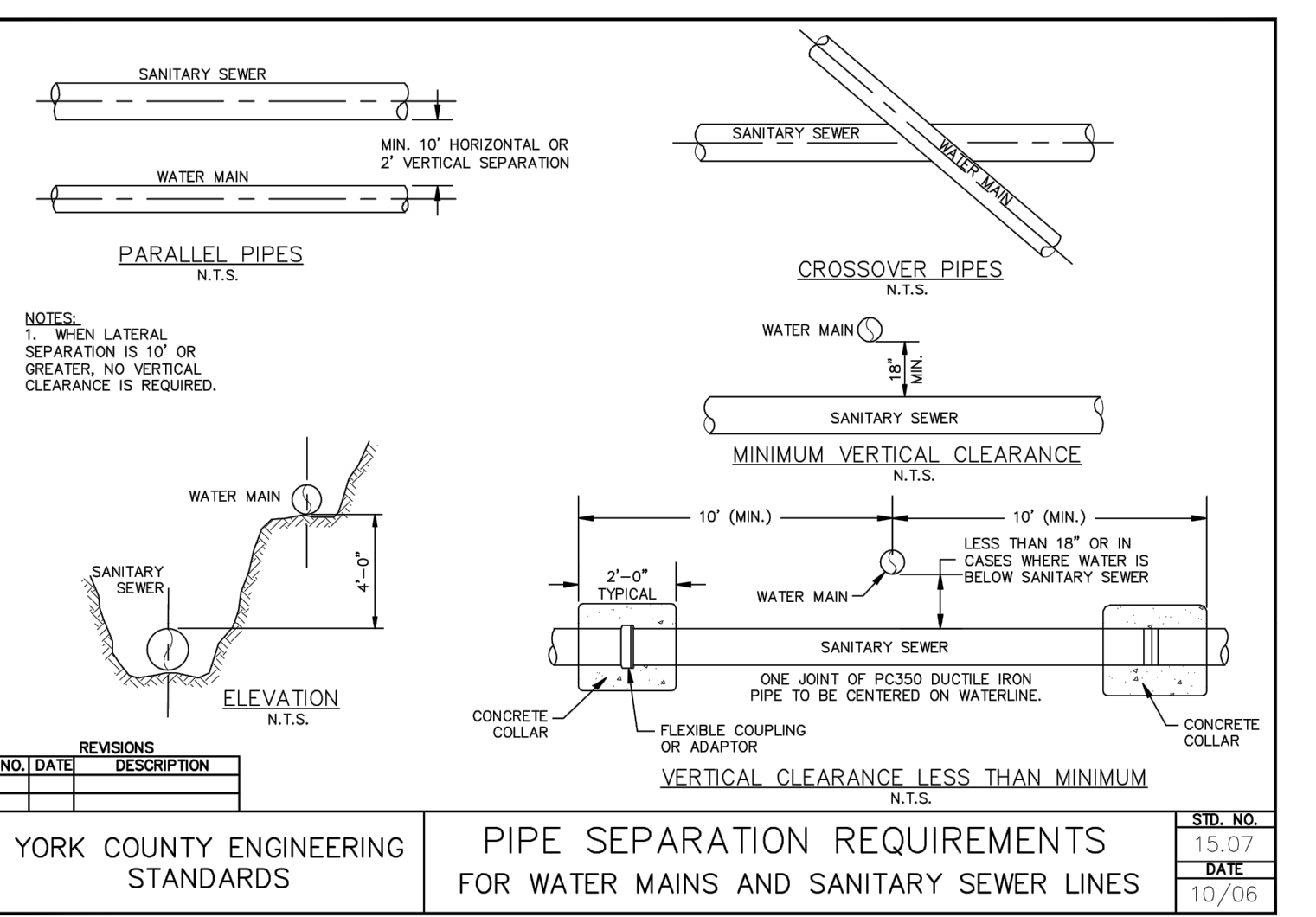
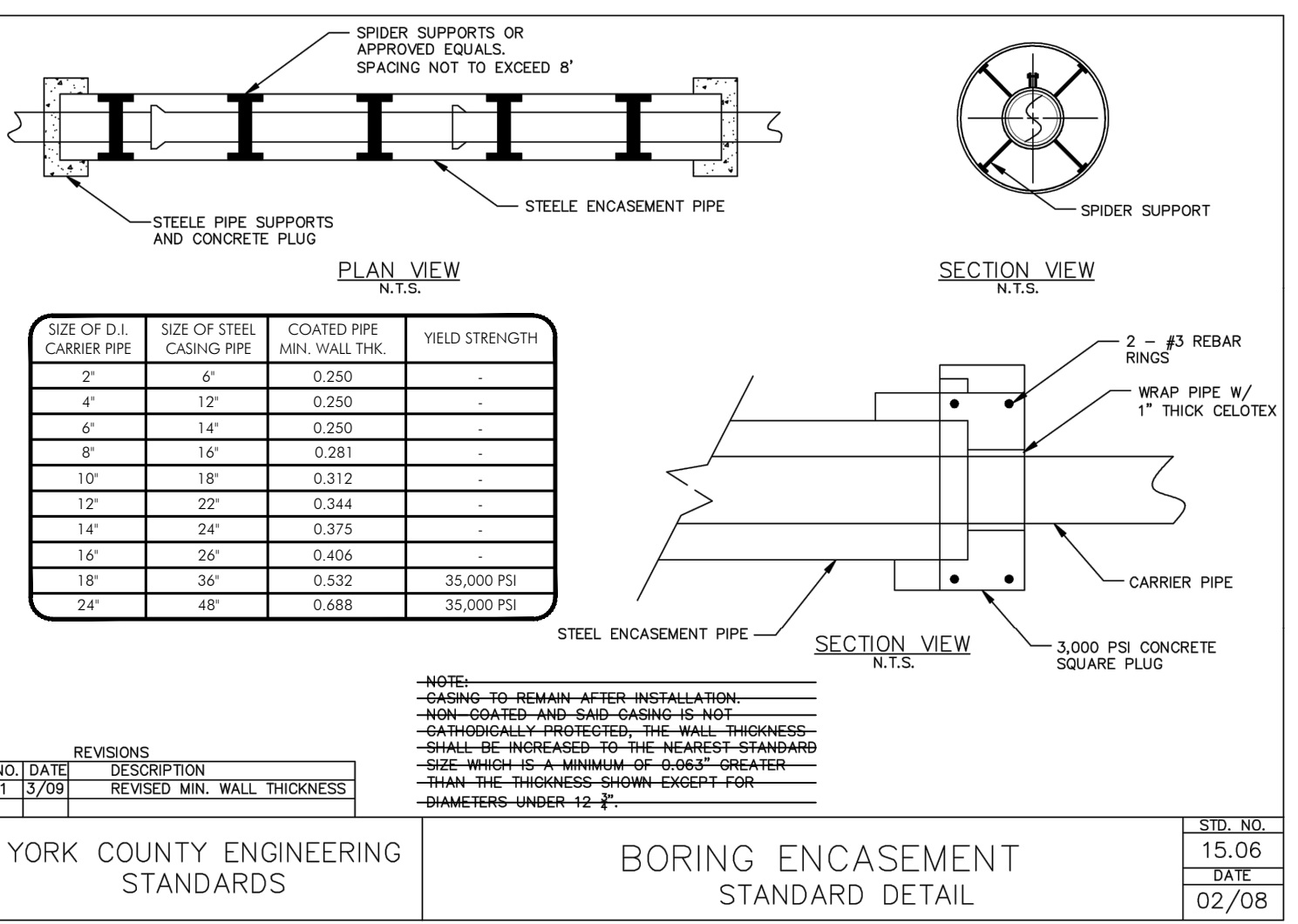
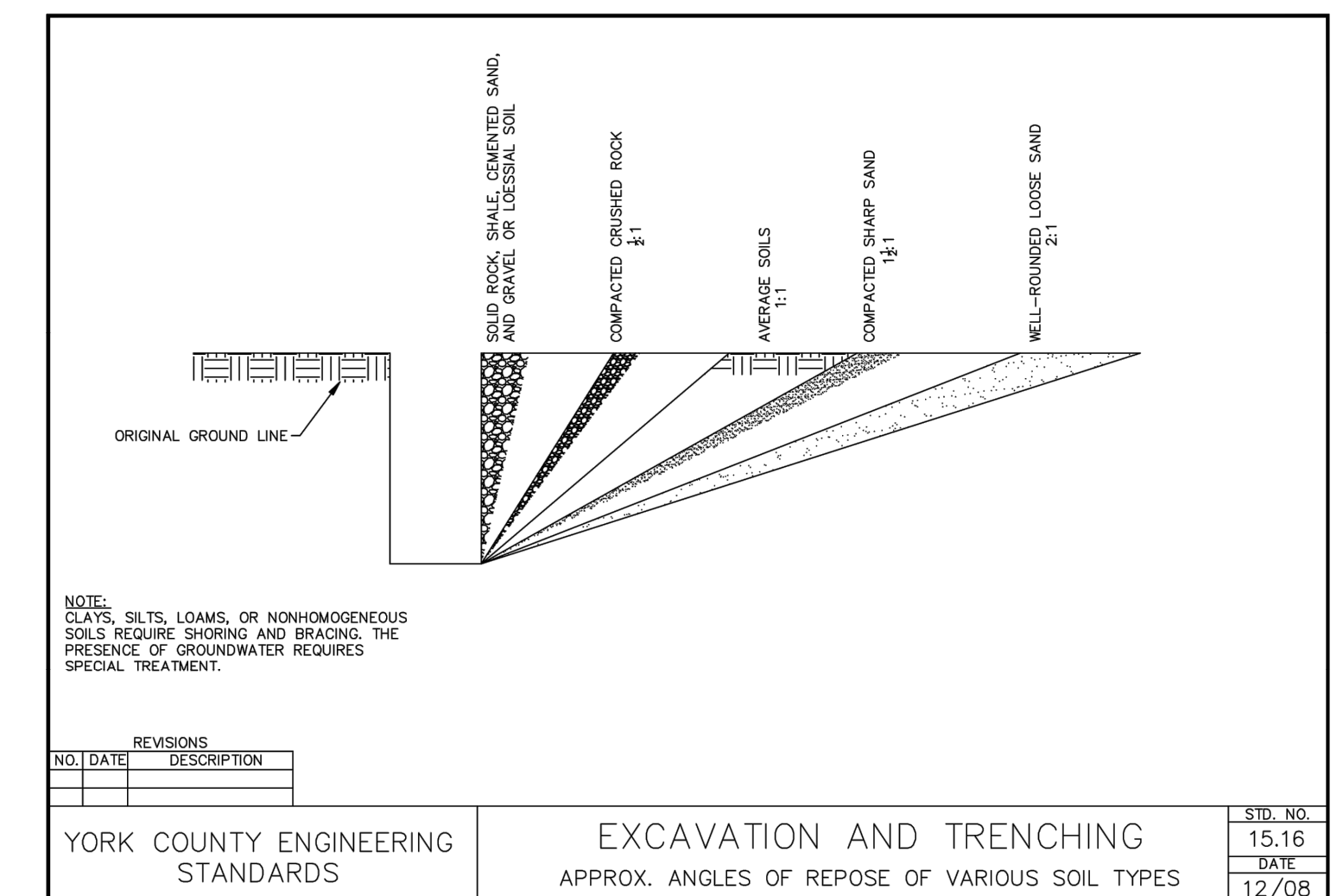
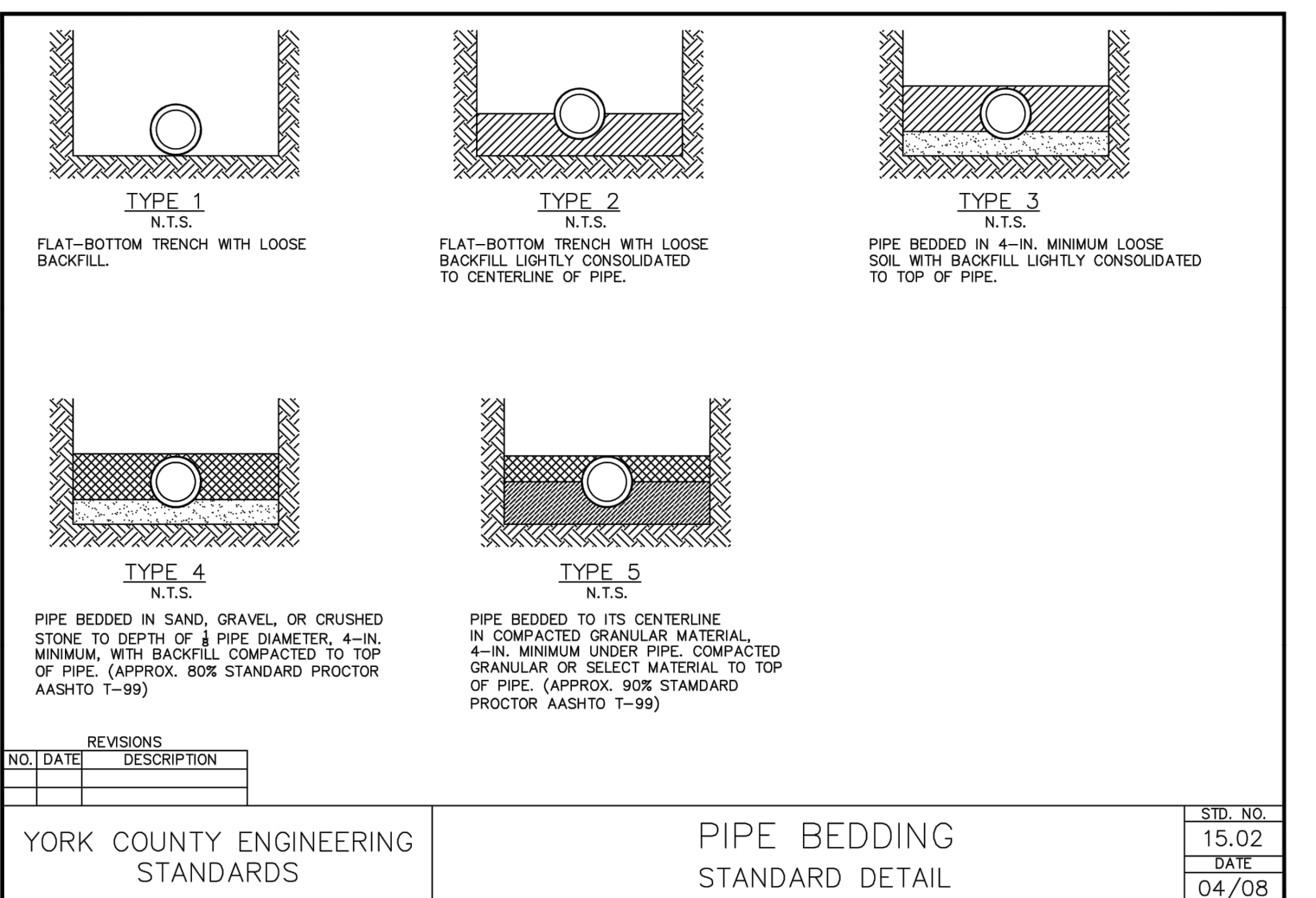
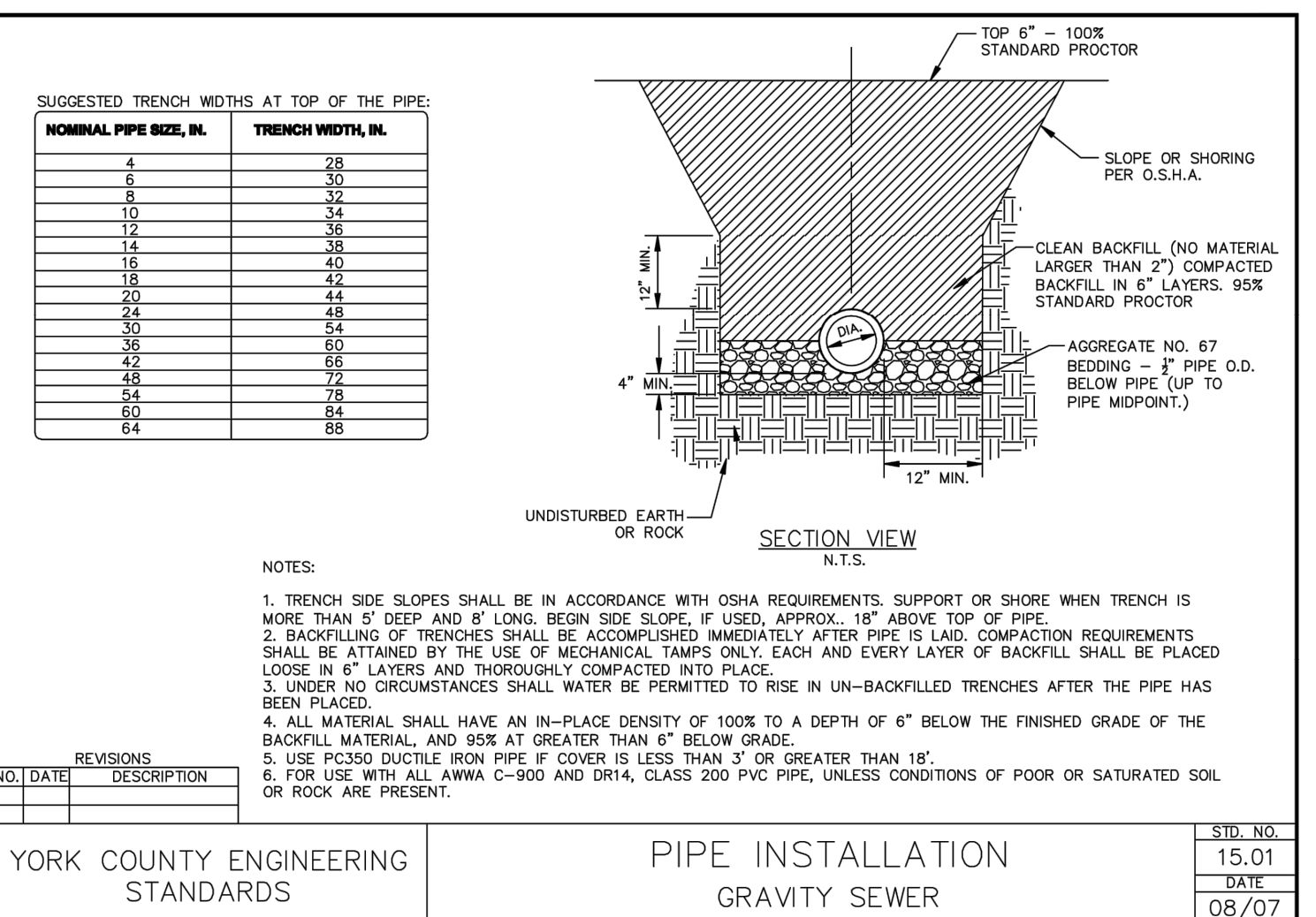
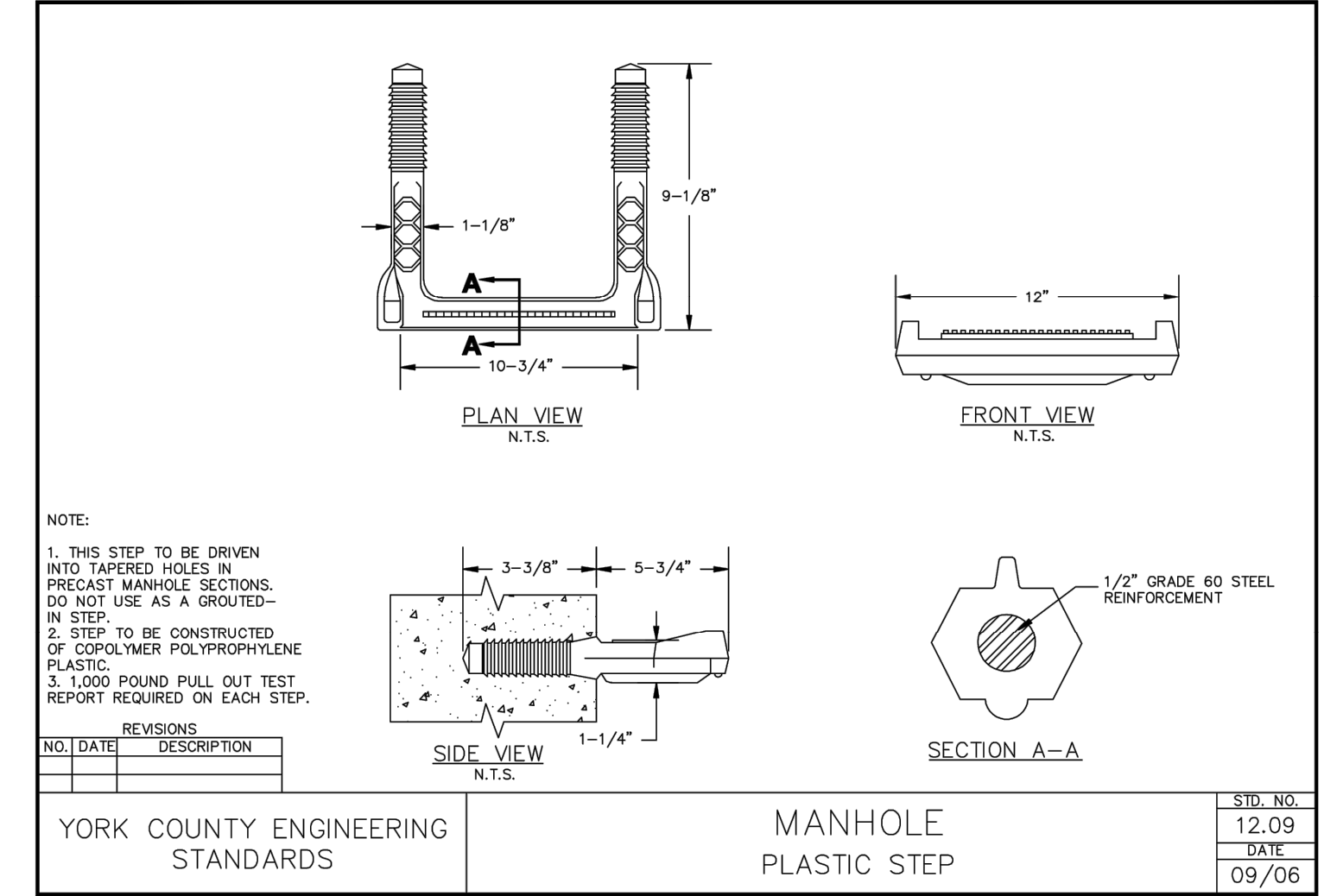
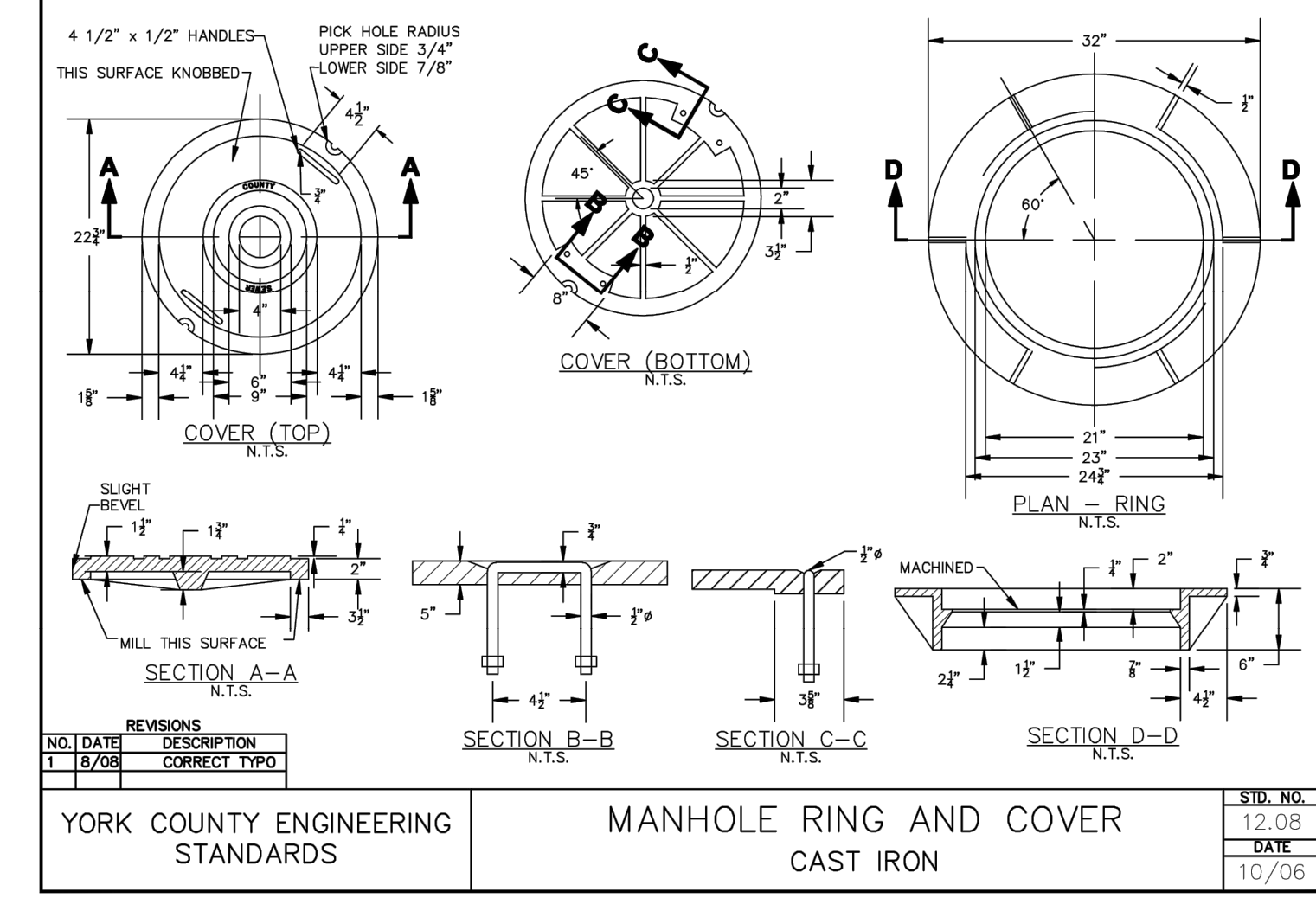
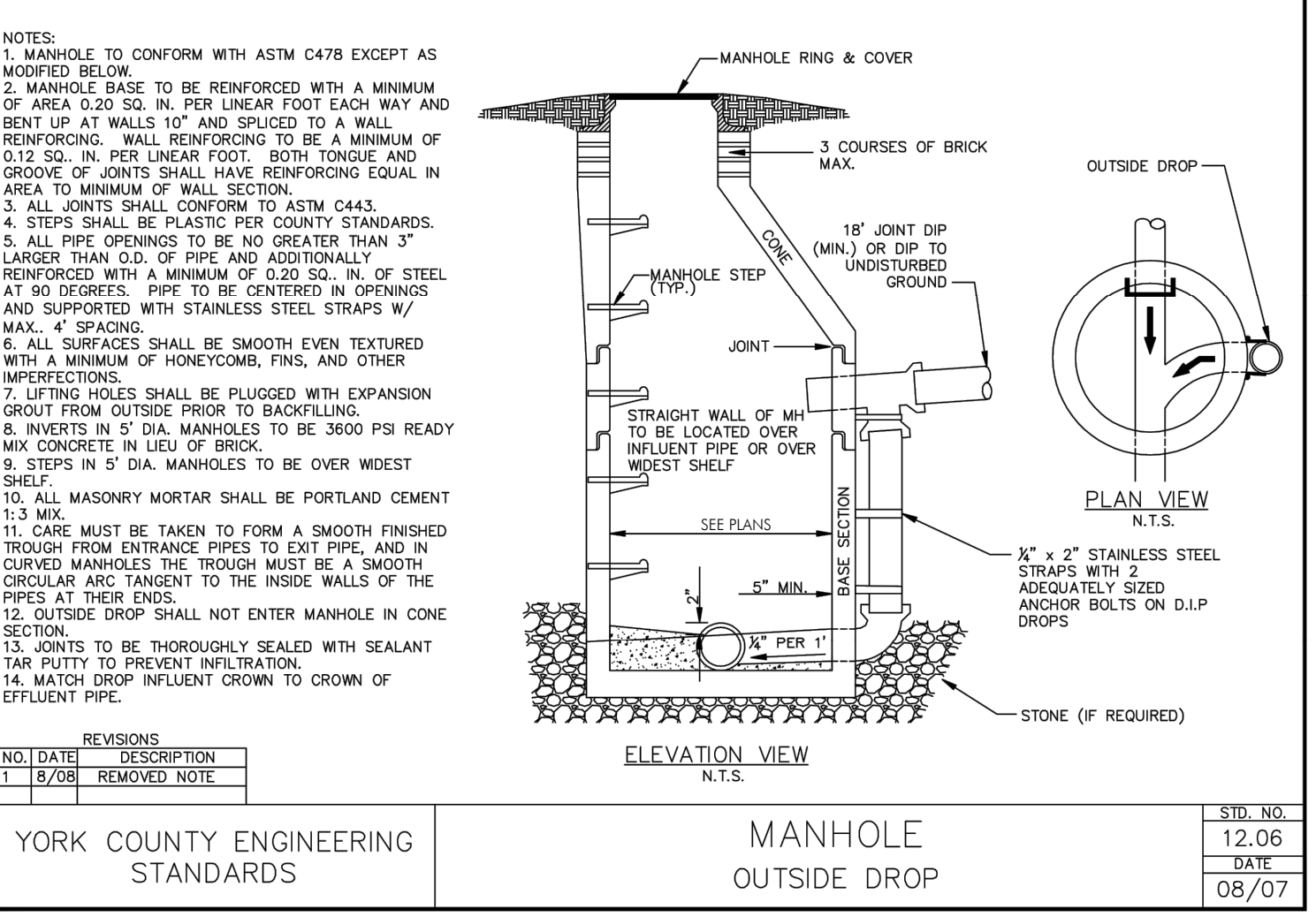
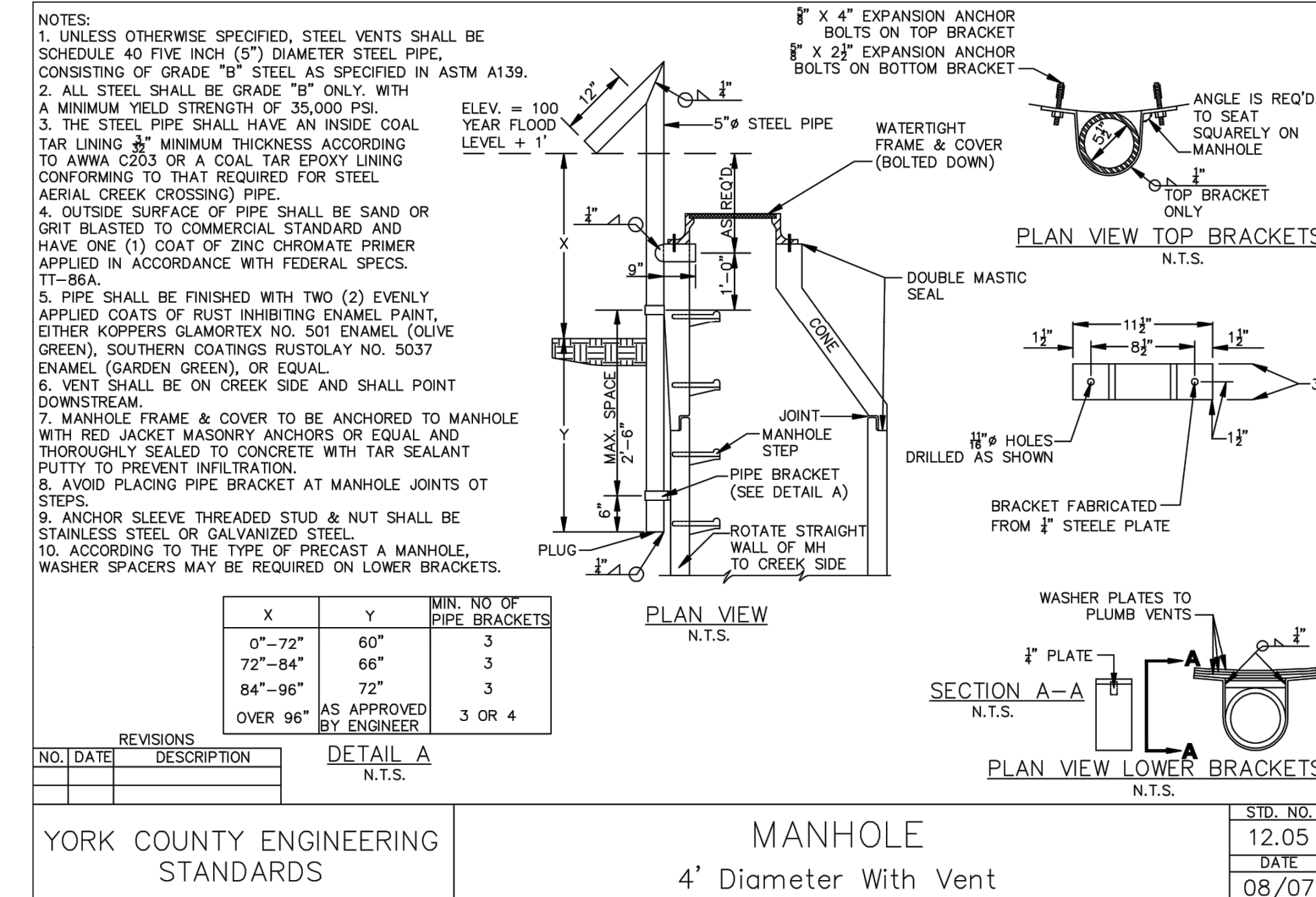
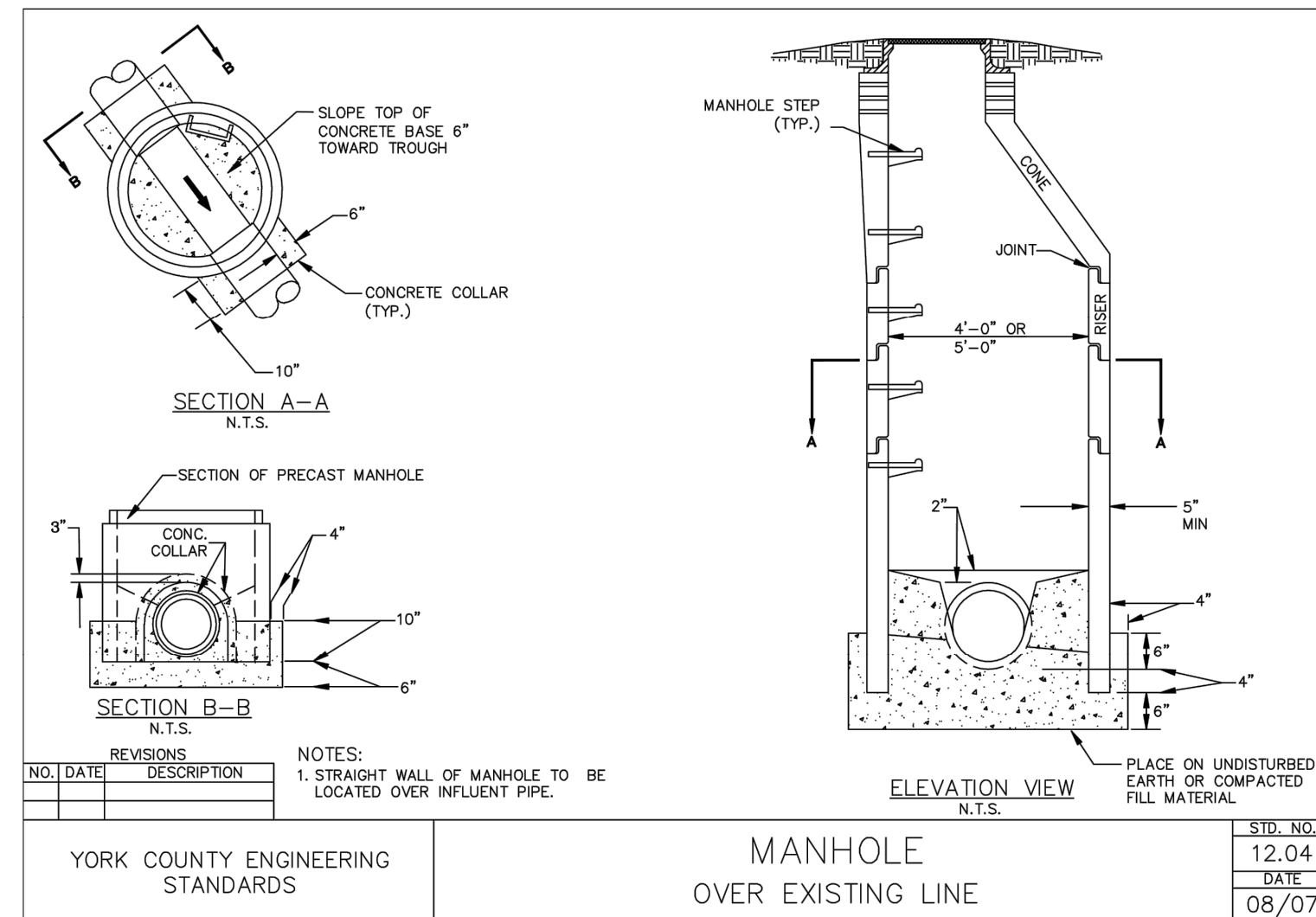
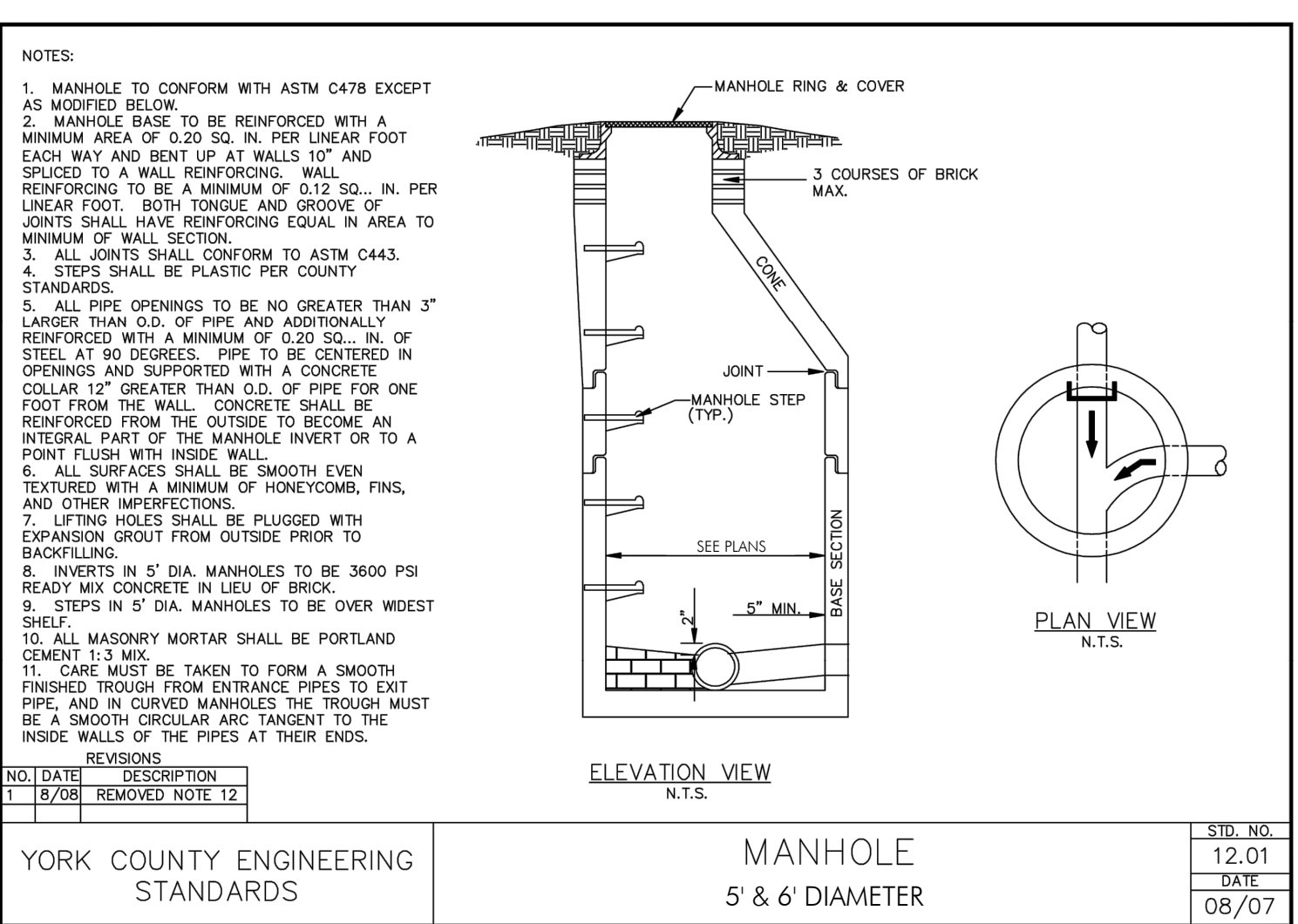
Drawing Name: **SEWER DETAILS**

Municipality Project Number:

Date: **NOVEMBER 2020** Division: **WATER/WASTEWATER**

Scale: **AS NOTED** Sheet Number:

Drawing Number: **C3.1**



EROSION CONTROL NOTES

SCDHEC STANDARD NOTES:

- IF NECESSARY, SLOPES, WHICH EXCEED EIGHT (8) VERTICAL FEET SHOULD BE STABILIZED WITH SYNTHETIC OR VEGETATIVE MATS, IN ADDITION TO HYDROSEEDING. IT MAY BE NECESSARY TO INSTALL TEMPORARY SLOPE DRAINS DURING CONSTRUCTION. TEMPORARY BERMS MAY BE NEEDED UNTIL THE SLOPE IS BROUGHT TO GRADE.
- STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN FOURTEEN (14) DAYS AFTER WORK HAS CEASED, EXCEPT AS STATED BELOW. WHERE STABILIZATION BY THE 14TH DAY IS PRECLUDED BY SNOW COVER OR FROZEN GROUND CONDITIONS STABILIZATION MEASURES MUST BE INITIATED AS SOON AS PRACTICABLE. WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IS TEMPORARILY CEASED, AND EARTH-DISTURBING ACTIVITIES WILL BE RESUMED WITHIN 14 DAYS, TEMPORARY STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE.
- ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSPECTED ONCE EVERY WEEK. IF PERIODIC INSPECTION OR OTHER INFORMATION INDICATES THAT A BMP HAS BEEN INAPPROPRIATELY, OR INCORRECTLY INSTALLED OR MAINTAINED, THE PERMITTEE MUST ADDRESS THE NECESSARY REPLACEMENT OR MODIFICATION REQUIRED TO CORRECT THE BMP WITHIN 48 HOURS OF IDENTIFICATION.
- PROVIDE SILT FENCE AND/OR OTHER CONTROL DEVICES, AS MAY BE REQUIRED, TO CONTROL SOIL EROSION DURING UTILITY CONSTRUCTION. ALL DISTURBED AREAS SHALL BE CLEANED, GRADED, AND STABILIZED WITH GRASSING IMMEDIATELY AFTER THE UTILITY INSTALLATION. FILL, COVER, AND TEMPORARY SEEDING AT THE END OF EACH DAY ARE RECOMMENDED. IF WATER IS ENCOUNTERED WHILE TRENCHING, THE WATER SHOULD BE FILTERED TO REMOVE ANY SEDIMENTS BEFORE BEING PUMPED BACK INTO ANY WATERS OF THE STATE.
- ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED DURING ALL PHASES OF CONSTRUCTION UNTIL THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES AND ALL DISTURBED AREAS HAVE BEEN STABILIZED. ADDITIONAL CONTROL DEVICES MAY BE REQUIRED DURING CONSTRUCTION IN ORDER TO CONTROL EROSION AND/OR OFFSITE SEDIMENTATION. ALL TEMPORARY CONTROL DEVICES SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED.
- THE CONTRACTOR MUST TAKE NECESSARY ACTION TO MINIMIZE THE TRACKING OF MUD ONTO PAVED ROADWAY(S) FROM CONSTRUCTION AREAS AND THE GENERATION OF DUST. THE CONTRACTOR SHALL DAILY REMOVE MUD/SOIL FROM PAVEMENT, AS MAY BE REQUIRED.
- RESIDENTIAL SUBDIVISIONS REQUIRE EROSION CONTROL FEATURES FOR INFRASTRUCTURE AS WELL AS FOR INDIVIDUAL LOT CONSTRUCTION. INDIVIDUAL PROPERTY OWNERS SHALL FOLLOW THESE PLANS DURING CONSTRUCTION OR OBTAIN APPROVAL OF AN INDIVIDUAL PLAN IN ACCORDANCE WITH S.C. REG. 72-300 ET SEQ. AND SCR100000.
- TEMPORARY DIVERSION BERMS AND/OR DITCHES WILL BE PROVIDED AS NEEDED DURING CONSTRUCTION TO PROTECT WORK AREAS FROM UPSLOPE RUNOFF AND/OR TO DIVERT SEDIMENT-LADEN WATER TO APPROPRIATE TRAPS OR STABLE OUTLETS.
- ALL WATERS OF THE STATE (WOS), INCLUDING WETLANDS, ARE TO BE FLAGGED OR OTHERWISE CLEARLY MARKED IN THE FIELD. A DOUBLE ROW OF SILT FENCE IS TO BE INSTALLED IN ALL AREAS WHERE A 50-FOOT BUFFER CAN'T BE MAINTAINED BETWEEN THE DISTURBED AREA AND ALL WOS. A 10-FOOT BUFFER SHOULD BE MAINTAINED BETWEEN THE LAST ROW OF SILT FENCE AND ALL WOS.
- LITTER, CONSTRUCTION DEBRIS, OILS, FUELS, AND BUILDING PRODUCTS WITH SIGNIFICANT POTENTIAL FOR IMPACT (SUCH AS STOCKPILES OF FRESHLY TREATED LUMBER) AND CONSTRUCTION CHEMICALS THAT COULD BE EXPOSED TO STORM WATER MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE IN STORM WATER DISCHARGES.
- A COPY OF THE SWPPP, INSPECTIONS RECORDS, AND RAINFALL DATA MUST BE RETAINED AT THE CONSTRUCTION SITE OR A NEARBY LOCATION EASILY ACCESSIBLE DURING NORMAL BUSINESS HOURS, FROM THE DATE OF COMMENCEMENT OF CONSTRUCTION ACTIVITIES TO THE DATE THAT FINAL STABILIZATION IS REACHED.
- INITIATE STABILIZATION MEASURES ON ANY EXPOSED STEEP SLOPE (3H:1V OR GREATER) WHERE LAND-DISTURBING ACTIVITIES HAVE PERMANENTLY OR TEMPORARILY CEASED AND WILL NOT RESUME FOR A PERIOD OF 7 CALENDAR DAYS.
- MINIMIZE SOIL COMPACTION AND, IF FEASIBLE, PRESERVE TOPSOIL.
- MINIMIZE THE DISCHARGE OF POLLUTANTS FROM EQUIPMENT AND VEHICLE WASHING, WHEEL WASH WATER, AND OTHER WASH WATERS. WASH WATERS MUST BE TREATED IN A SEDIMENT BASIN OR ALTERNATIVE CONTROL THAT PROVIDES EQUIVALENT OR BETTER TREATMENT PRIOR TO DISCHARGE.
- MINIMIZE THE DISCHARGE OF POLLUTANTS FROM DEWATERING OF TRENCHES AND EXCAVATED AREAS. THESE DISCHARGES ARE TO BE ROUTED THROUGH APPROPRIATE BMPs (SEDIMENT BASIN, FILTER BAG, ETC.).
- THE FOLLOWING DISCHARGES FROM SITES ARE PROHIBITED:
 - WASTEWATER FROM WASHOUT OF CONCRETE, UNLESS MANAGED BY AN APPROPRIATE CONTROL;
 - WASTEWATER FROM WASHOUT AND CLEANOUT OF STUCCO, PAINT, FORM RELEASE OILS, CURING COMPOUNDS AND OTHER CONSTRUCTION MATERIALS;
 - FUELS, OILS, OR OTHER POLLUTANTS USED IN VEHICLE AND EQUIPMENT OPERATION AND MAINTENANCE; AND
 - SOAPS OR SOLVENTS USED IN VEHICLE AND EQUIPMENT WASHING.
- AFTER CONSTRUCTION ACTIVITIES BEGIN, INSPECTIONS MUST BE CONDUCTED AT A MINIMUM OF AT LEAST ONCE EVERY CALENDAR WEEK AND MUST BE CONDUCTED UNTIL FINAL STABILIZATION IS REACHED ON ALL AREAS OF THE CONSTRUCTION SITE.
- IF EXISTING BMPs NEED TO BE MODIFIED OR IF ADDITIONAL BMPs ARE NECESSARY TO COMPLY WITH THE REQUIREMENTS OF THIS PERMIT AND/OR SC'S WATER QUALITY STANDARDS, IMPLEMENTATION MUST BE COMPLETED BEFORE THE NEXT STORM EVENT WHENEVER PRACTICABLE. IF IMPLEMENTATION BEFORE THE NEXT STORM EVENT IS IMPRACTICABLE, THE SITUATION MUST BE DOCUMENTED IN THE SWPPP AND ALTERNATIVE BMPs MUST BE IMPLEMENTED AS SOON AS REASONABLY POSSIBLE.
- A PRE-CONSTRUCTION CONFERENCE MUST BE HELD FOR EACH CONSTRUCTION SITE WITH AN APPROVED ON-SITE SWPPP PRIOR TO THE IMPLEMENTATION OF CONSTRUCTION ACTIVITIES. FOR NON-LINEAR PROJECTS THAT DISTURB 10 ACRES OR MORE THIS CONFERENCE MUST BE HELD ON-SITE UNLESS THE DEPARTMENT HAS APPROVED OTHERWISE

YORK COUNTY STORMWATER ORDINANCE NOTES

- CONTACT THE SEDIMENT CONTROL OFFICER NOT LESS THAN 48 HOURS BEFORE COMMENCEMENT OF THE LAND-DISTURBING ACTIVITY. THE DEVELOPER SHALL ALSO CONTACT THE COUNTY AFTER THE REMOVAL OF THE TEMPORARY SEDIMENT CONTROL MEASURES;
- BEGIN INSTALLATION OF INTERIM EROSION AND SEDIMENT CONTROL AND STORMWATER MANAGEMENT MEASURES WITHIN 48 HOURS OF THE COMMENCEMENT OF LAND-DISTURBING ACTIVITIES;
- THE DEVELOPER ENGAGED IN OR CONDUCTING THE LAND-DISTURBING ACTIVITY SHALL BE RESPONSIBLE FOR INSTALLING AND MAINTAINING ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL MEASURES AND FACILITIES DURING THE DEVELOPMENT OF A SITE, AS REQUIRED BY THE APPROVED PLAN OR ANY PROVISION OF THIS CHAPTER. OPERATIONS AND MAINTENANCE CONDITIONS SHALL BE INCLUDED IN THE PLAN OUTLINING HOW THE DEVELOPER INTENDS TO PROVIDE FOR OPERATIONS AND MAINTENANCE DURING CONSTRUCTION;
- WITHIN SEVEN CALENDAR DAYS FOLLOWING SOIL DISTURBANCE OR RE-DISTURBANCE, ALL PERIMETER SEDIMENT CONTROLS SHALL BE INSTALLED AND TEMPORARY STABILIZATION MEASURES SHALL BE COMPLETED ON TOPSOIL STOCKPILES;
- AREAS AT FINAL GRADE SHALL RECEIVE PERMANENT STABILIZATION MEASURES WITHIN SEVEN CALENDAR DAYS OF REACHING FINAL GRADE;
- THE RESPONSIBILITY FOR MAINTAINING ALL PERMANENT EROSION AND SEDIMENT CONTROL MEASURES AND FACILITIES AFTER SITE LAND-DISTURBING ACTIVITY IS COMPLETED SHALL LIE WITH THE LANDOWNER OR PERSON IN POSSESSION OR CONTROL, EXCEPT FACILITIES AND MEASURES INSTALLED WITHIN ROAD OR STREET RIGHTS-OF-WAY OR EASEMENTS ACCEPTED FOR MAINTENANCE BY THE COUNTY;
- APPROVED PLANS REMAIN VALID FOR FIVE YEARS FROM THE DATE OF AN APPROVAL.

DISTURBANCE INFORMATION

TOTAL PROJECT DISTURBED AREA (TO THE NEAREST 0.1 Ac.) 9.9 Ac.

EXISTING IMPERVIOUS AREA 0 Ac.

PROPOSED IMPERVIOUS AREA 0 Ac.

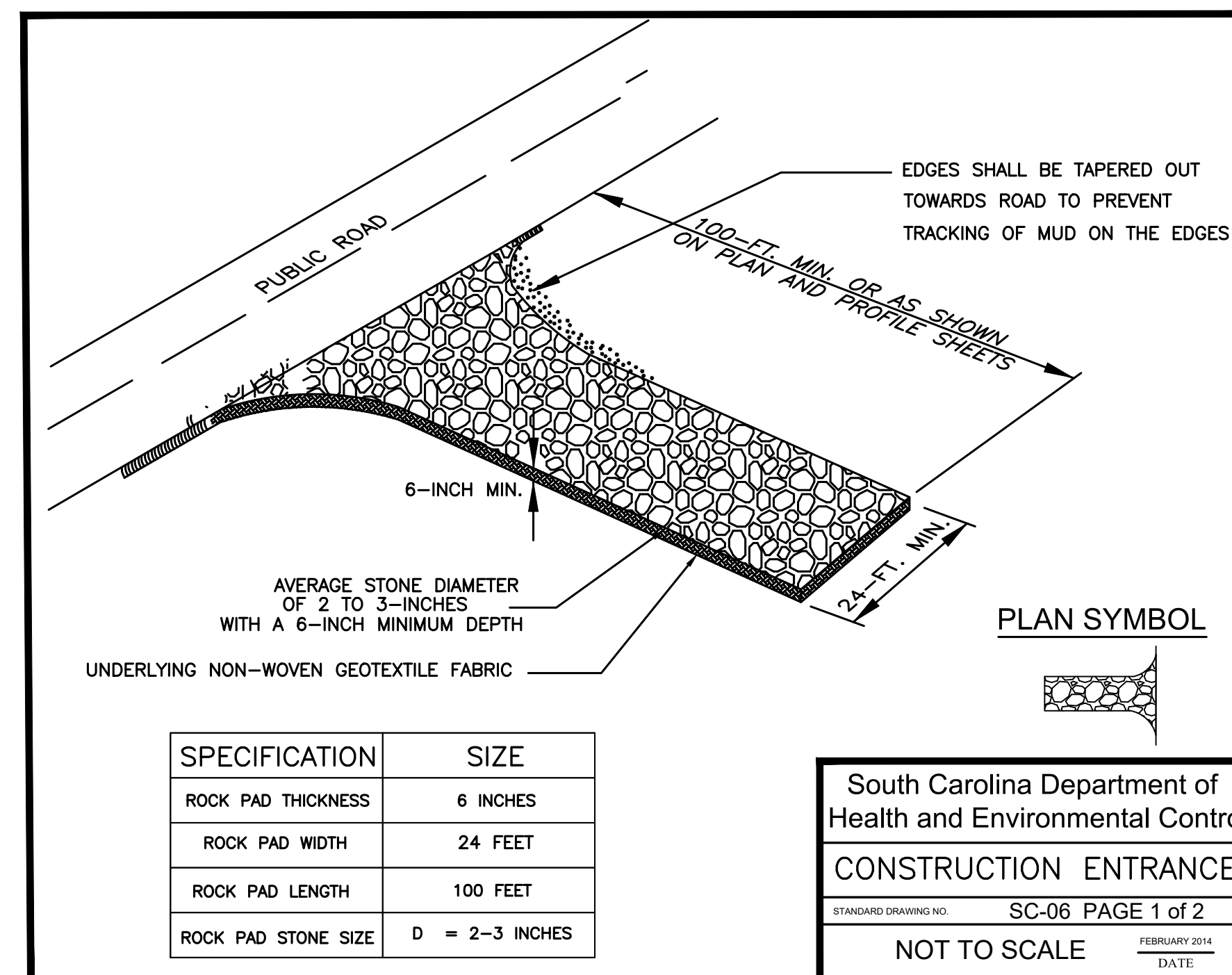
NET IMPERVIOUS AREA INCREASE 0 Ac.

HYDROLOGIC SOIL GROUP

SYMBOL	DESCRIPTION	HYDROLOGIC SOIL GROUP
PaEZ	PACOLET SANDY CLAY LOAM	C
Cha	CHEWACLA LOAM	B/D
WwEZ	WYHOTT-WILKES COMPLEX SANDY CLAY LOAM	D
WyCZ	WYHOTT-WILKES COMPLEX SANDY LOAM	C

SEQUENCE OF CONSTRUCTION

- RECEIVE NPDES COVERAGE FROM DHEC
- PRE-CONSTRUCTION MEETING.
- NOTIFY DHEC EQC REGIONAL OFFICE 48 HOURS PRIOR TO BEGINNING LAND-DISTURBING ACTIVITIES
- INSTALLATION OF CONSTRUCTION ENTRANCE(S)
- CLEARING & GRUBBING ONLY AS NECESSARY FOR INSTALLATION OF PERIMETER CONTROLS
- INSTALLATION OF PERIMETER CONTROLS (E.G. SILT FENCE)
- INSPECTION OF PERIMETER EROSION CONTROL BY YORK COUNTY INSPECTOR
- A FINAL GRADING PERMIT MUST BE ISSUED BY THE YORK COUNTY INSPECTOR BEFORE ANY DEMOLITION/CLEARING/GRUBBING TAKES PLACE OTHER THAN WHAT IS NECESSARY FOR THE INSTALLATION OF SEDIMENT AND EROSION CONTROL MEASURES
- CLEARING & GRUBBING OF SITE OR DEMOLITION (SEDIMENT AND EROSION CONTROL MEASURES FOR THESE AREAS MUST ALREADY BE INSTALLED)
- ROUGH GRADING
- INSTALLATION OF GRAVITY SEWER LINE AND MANHOLES.
- FINE GRADING, SEEDING, ETC.
- PERMANENT / FINAL STABILIZATION
- REMOVAL OF TEMPORARY SEDIMENT & EROSION CONTROL MEASURES NEEDED ONLY FOR SEWER LINE INSTALLATION AFTER ENTIRE AREA IS FINALLY STABILIZED (THE DEPARTMENT RECOMMENDS THAT THE PROJECT OWNER / OPERATOR HAVE THE SWPPP PREPARER OR REGISTRATION EQUIVALENT APPROVE THE REMOVAL OF TEMPORARY STRUCTURES.)
 - NOTE: MAINTENANCE OF SEDIMENT AND EROSION CONTROL MEASURES MUST CONTINUE UNTIL THE SITE IS PERMANENTLY STABILIZED AND THE CONTROLS ARE REMOVED.



CONSTRUCTION ENTRANCE - GENERAL NOTES

- Stabilized construction entrances should be used at all points where traffic will egress/ingress a construction site onto a public road or any impervious surfaces, such as parking lots.
- Install a non-woven geotextile fabric prior to placing any stone.
- Install a culvert pipe across the entrance when needed to provide positive drainage.
- The entrance shall consist of 2-inch to 3-inch D50 stone placed at a minimum depth of 6-inches.
- Minimum dimensions of the entrance shall be 24-feet wide by 100-feet long, and may be modified as necessary to accommodate site constraints.
- The edges of the entrance shall be tapered out towards the road to prevent tracking at the edge of the entrance.
- Divert all surface runoff and drainage from the stone pad to a sediment trap or basin or other sediment trapping structure.
- Limestone may not be used for the stone pad.

CONSTR. ENTRANCE - INSPECTION & MAINTENANCE

- The key to functional construction entrances is weekly inspections, routine maintenance, and regular sediment removal.
- Regular inspections of construction entrances shall be conducted once every calendar week and, as recommended, within 24-hours after each rainfall event that produces 1/2-inch or more of precipitation.
- During regular inspections, check for mud and sediment buildup and pad integrity. Inspection frequencies may need to be more frequent during long periods of wet weather.
- Reshape the stone pad as necessary for drainage and runoff control.
- Wash or replace stones as needed and as directed by site inspector. The stone in the entrance should be washed or replaced whenever the entrance fails to reduce the amount of mud being carried off-site by vehicles. Frequent washing will extend the useful life of stone pad.
- Immediately remove mud and sediment tracked or washed onto adjacent impervious surfaces by brushing or sweeping. Flushing should only be used when the water can be discharged to a sediment trap or basin.
- During maintenance activities, any broken pavement should be repaired immediately.
- Construction entrances should be removed after the site has reached final stabilization. Permanent vegetation should replace areas from which construction entrances have been removed, unless area will be converted to an impervious surface to serve post-construction.

South Carolina Department of Health and Environmental Control
CONSTRUCTION ENTRANCE
 STANDARD DRAWING NO. SC-06 PAGE 1 of 2
 FEBRUARY 2014
 NOT TO SCALE

South Carolina Department of Health and Environmental Control
CONSTRUCTION ENTRANCE
 STANDARD DRAWING NO. SC-06 PAGE 2 of 2
 FEBRUARY 2014
GENERAL NOTES



CRUSHED STONE STABILIZED CONSTRUCTION ENTRANCE DETAIL

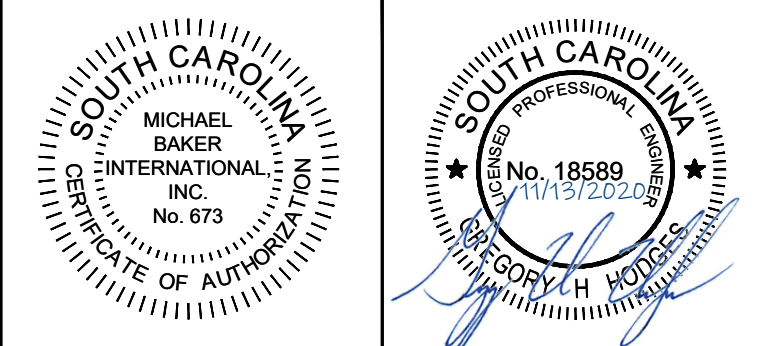
NOTE: SHOWN AS ON PLANS.



YORK COUNTY
 ROCK HILL, SOUTH CAROLINA

Michael Baker

INTERNATIONAL
 Michael Baker International
 700 Huger Street
 Columbia, South Carolina 29201



Designer: GHH	Checked by: KTC
Technician: MTW/NWM	Project Number: 166622

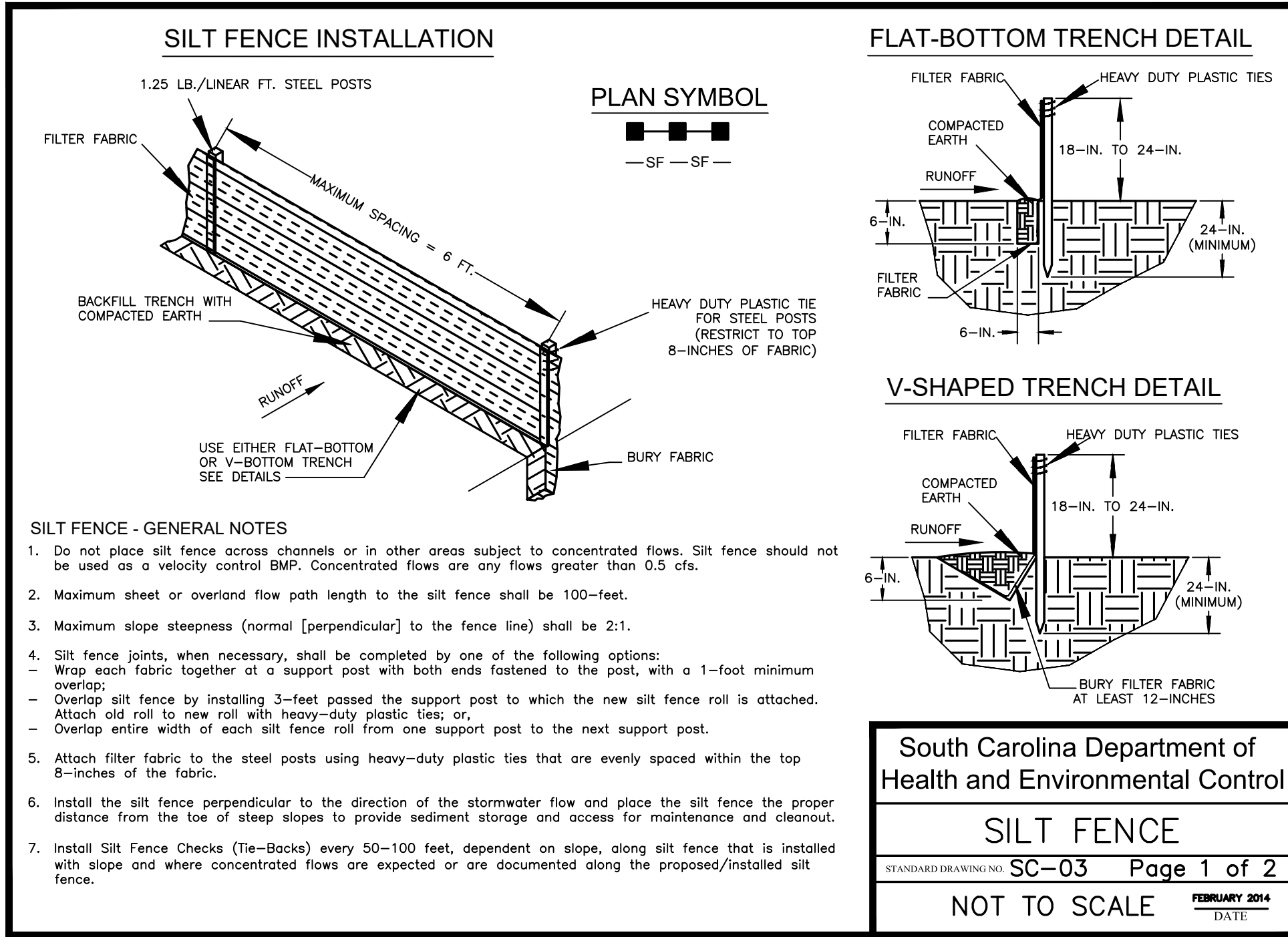
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No.	Description	Date	By
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F	REVISED PER EASEMENT AGREEMENT	SEPT. 2020	KTC
G	RE-ISSUED FOR BIDS	NOV. 2020	KTC

Project Name:
NEW HERITAGE GRAVITY SEWER PHASE 2

Drawing Name:
EROSION CONTROL DETAILS

Municipality Project Number:

Date: NOVEMBER 2020	Division: WATER/WASTEWATER
Scale: AS NOTED	Sheet Number: C3.2
	Drawing Number: C3.2

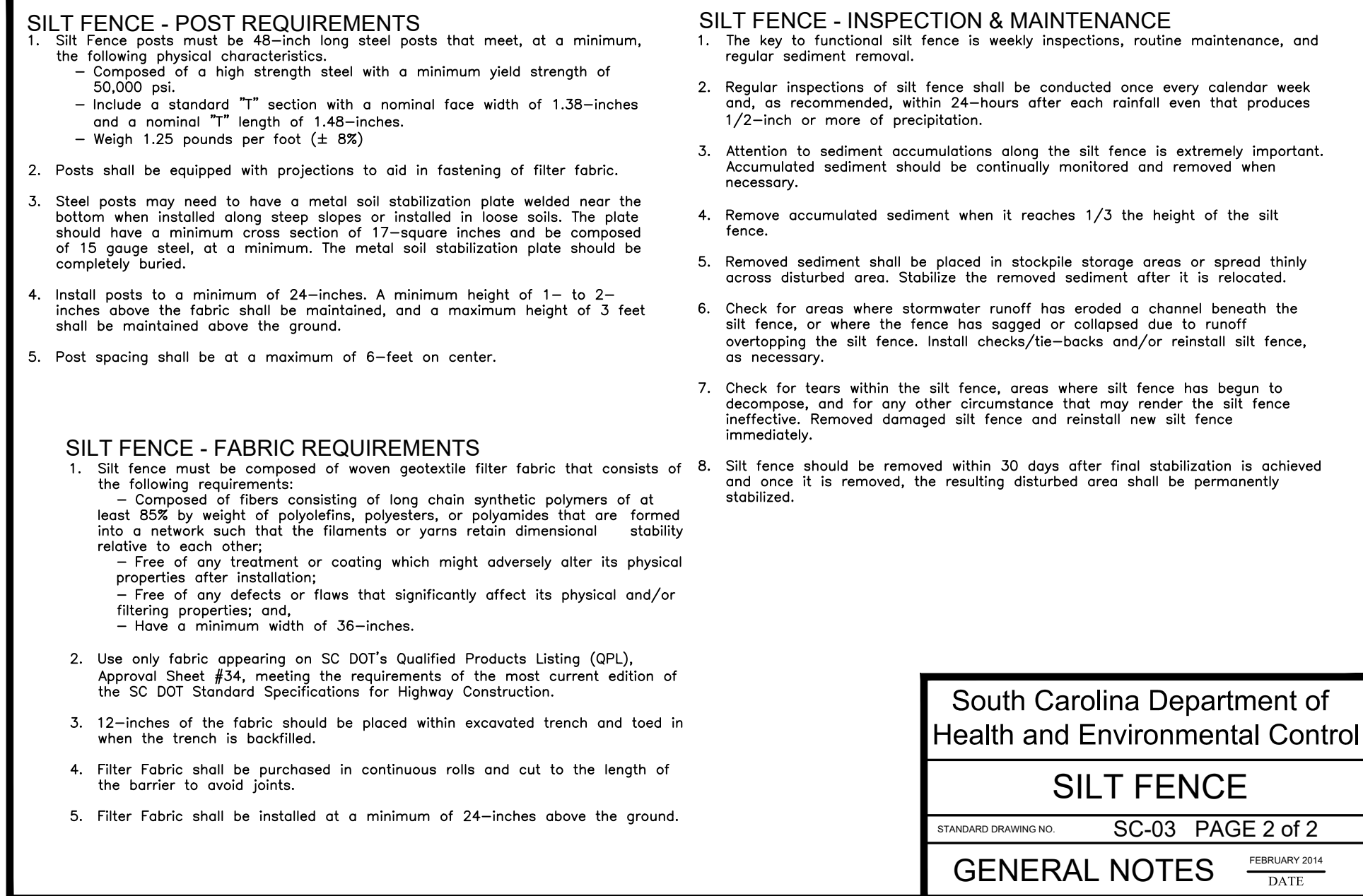


South Carolina Department of Health and Environmental Control

SILT FENCE

STANDARD DRAWING NO. SC-03 Page 1 of 2

NOT TO SCALE FEBRUARY 2014 DATE



South Carolina Department of Health and Environmental Control

SILT FENCE

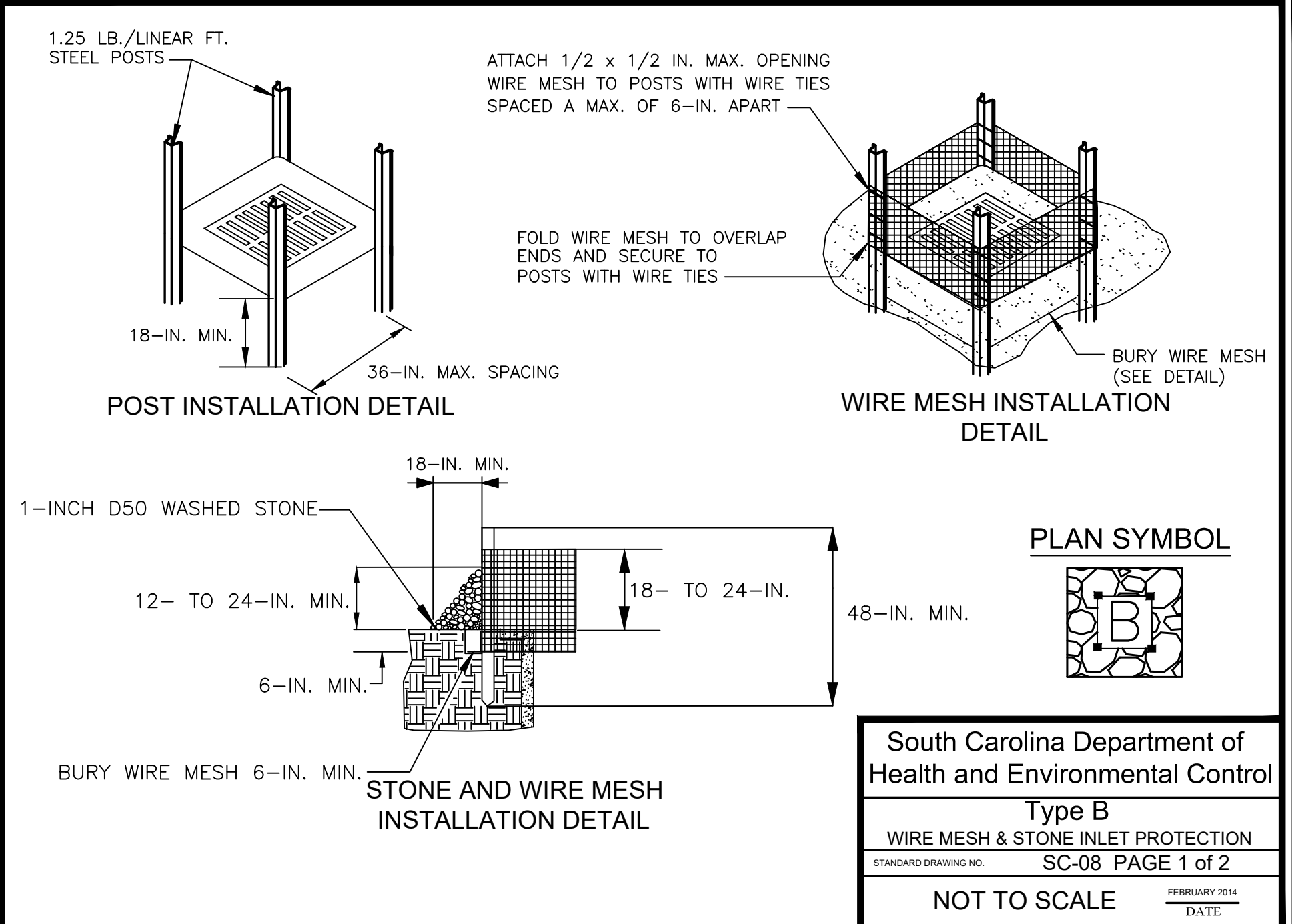
STANDARD DRAWING NO. SC-03 PAGE 2 of 2

GENERAL NOTES FEBRUARY 2014 DATE

1 TEMPORARY SILT FENCE DETAIL

N.T.S.

SHOWN AS —SF— ON PLANS



South Carolina Department of Health and Environmental Control

Type B

WIRE MESH & STONE INLET PROTECTION

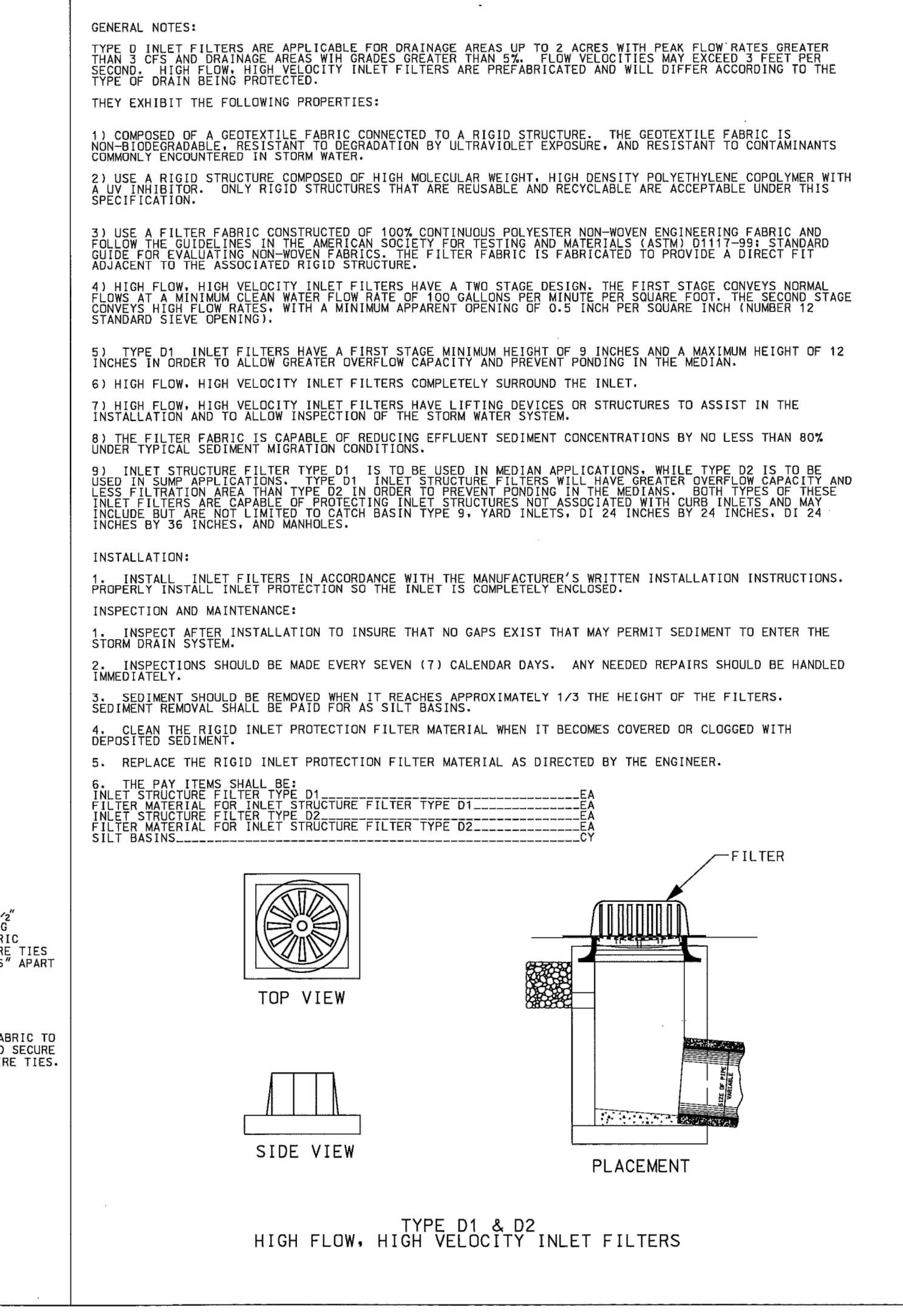
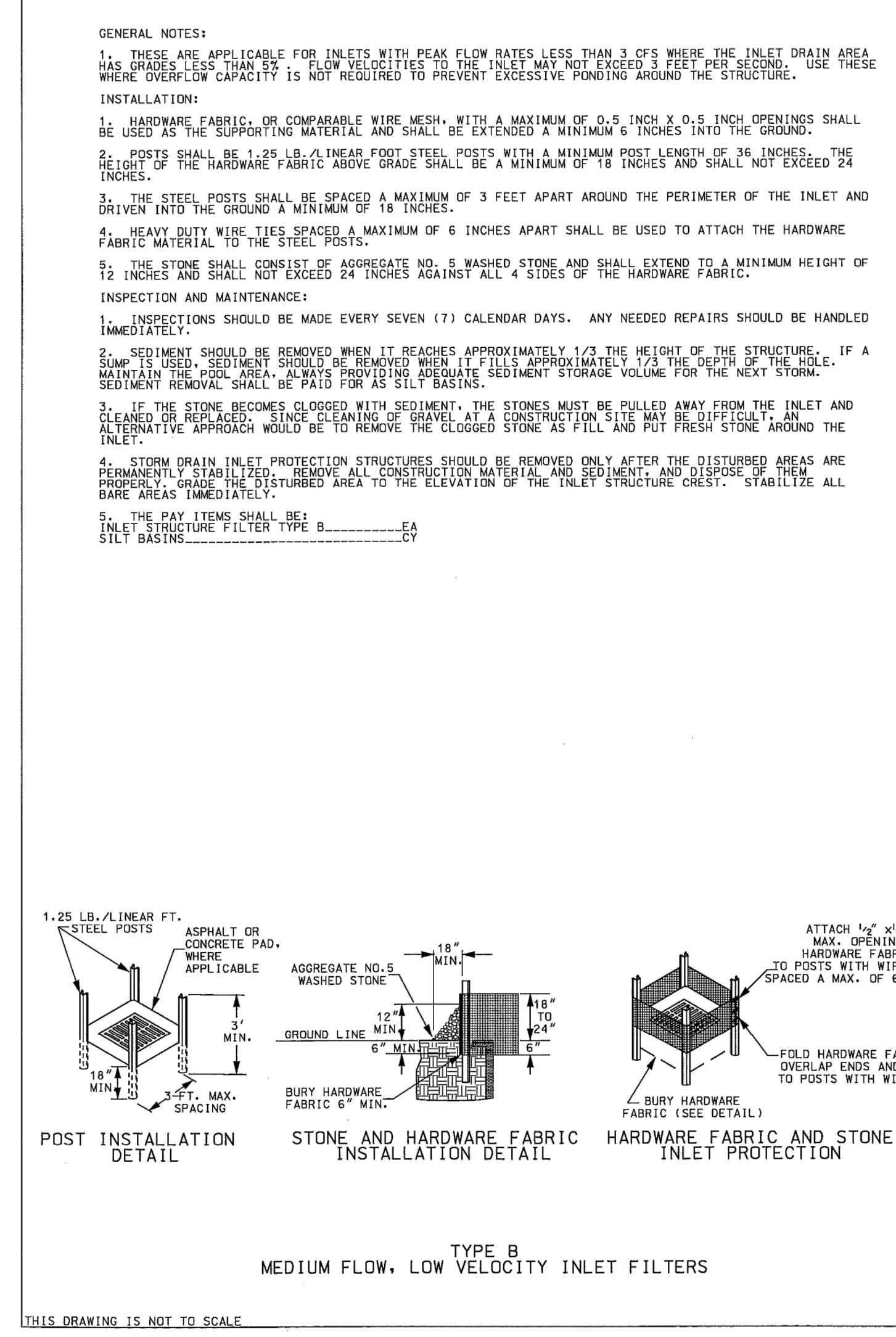
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NOT TO SCALE FEBRUARY 2014 DATE

TEMPORARY INLET PROTECTION - DHEC STANDARD DETAIL

N.T.S.

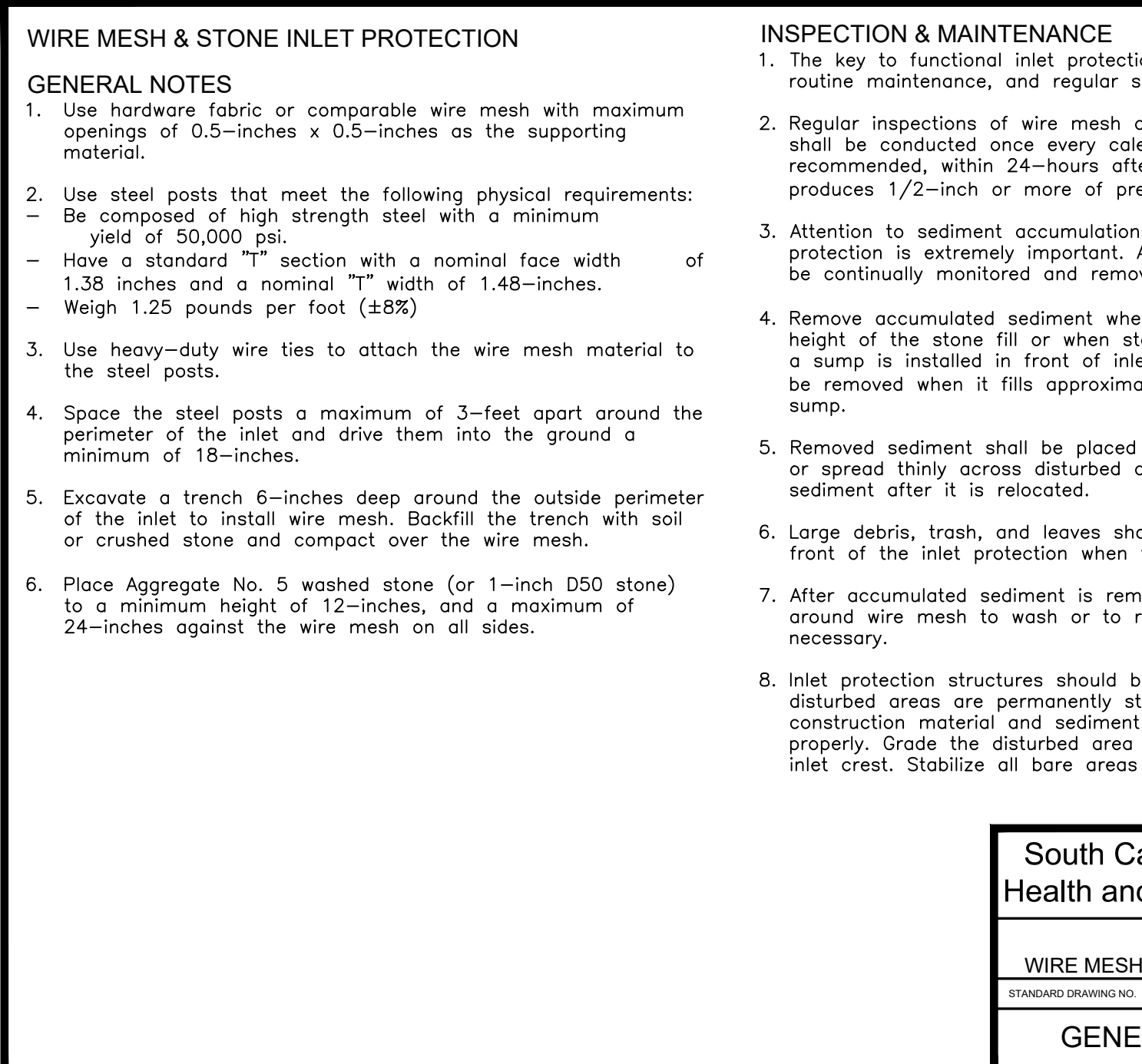
NOTE: SHOWN AS ON PLANS.



TEMPORARY RIGID INLET PROTECTION - SCDOT STANDARD DETAIL

N.T.S.

NOTE: SHOWN AS ON PLANS.



South Carolina Department of Health and Environmental Control

Type B

WIRE MESH & STONE INLET PROTECTION

STANDARD DRAWING NO. SC-08 PAGE 2 of 2

GENERAL NOTES FEBRUARY 2014 DATE

REFERENCES

NATIONAL DOCUMENTS
ASTM D1117-99

SCDOT DOCUMENTS

RELATED DRAWINGS & KEYWORDS

PRECONSTRUCTION SUPPORT ENGINEER

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER
EDWIN W. SYLVESTER, P.E.
NO. 8858
MARCH 3, 2008
DATE

6			
5			
4			
3			
2			
1			
0	3/2/2008	PSD	GENERAL REVISIONS
#	DATE	BY	DESCRIPTION

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

STANDARD DRAWING
TYPE B, D1, & D2
INLET STRUCTURE FILTERS

815-002-00
EFFECTIVE LETTING DATE | MAY 2008

York County
south carolina

YORK COUNTY
ROCK HILL, SOUTH CAROLINA

Michael Baker
INTERNATIONAL
Michael Baker International
700 Huger Street
Columbia, South Carolina 29201

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER
MICHAEL BAKER INTERNATIONAL, INC.
No. 673
MAY 27, 2008
GEOFFREY H. HOBBS, P.E.

Designer: **GHH** Checked by: **KTC**

Technician: **MTW/NWM** Project Number: **166622**

Project Name: **NEW HERITAGE GRAVITY SEWER PHASE 2**

Drawing Name: **EROSION CONTROL DETAILS**

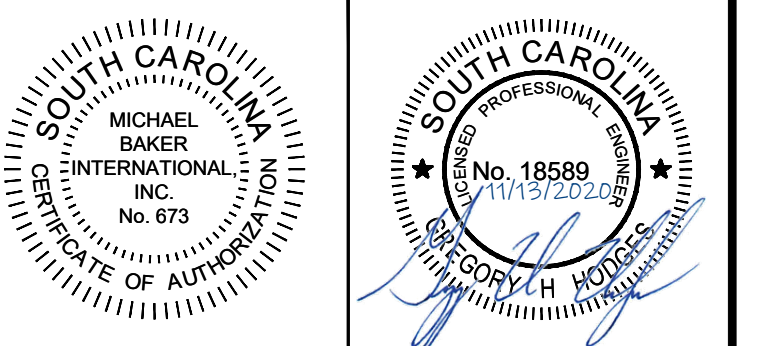
Municipality Project Number:

Date: **NOVEMBER 2020** Division: **WATER/WASTEWATER**

Scale: **AS NOTED** Sheet Number:

Drawing Number: **C3.3**

W:\166622 - New Heritage PH2 Gravity Sewer\CDRAWINGS\166622-New Heritage PH2 Sewer Detail Sheets - C3-1-C3.3.dwg Modified: Nov 13, 2020 - 9:43am Plotted: Nov 13, 2020 - 10:27am Greg Hodges



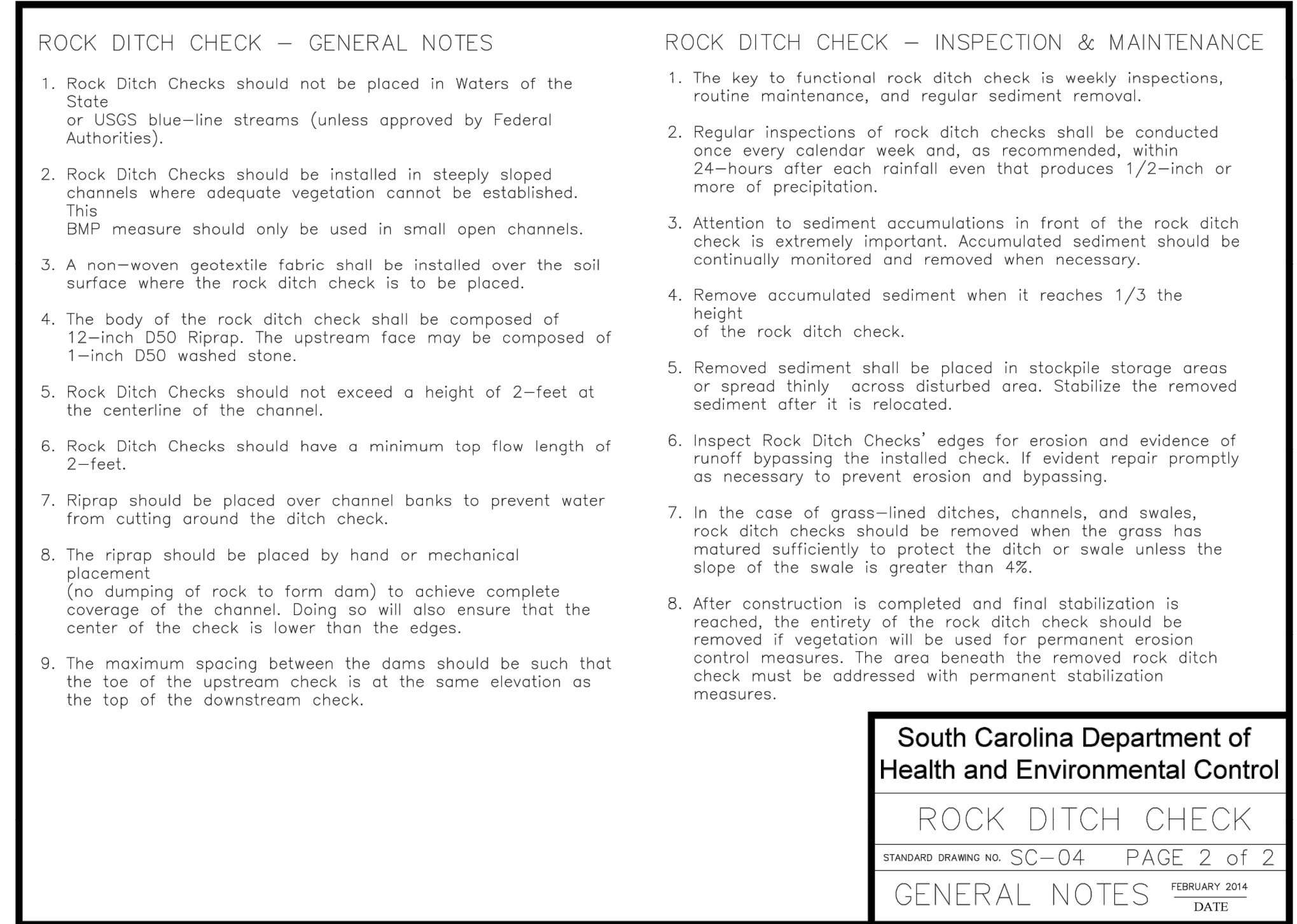
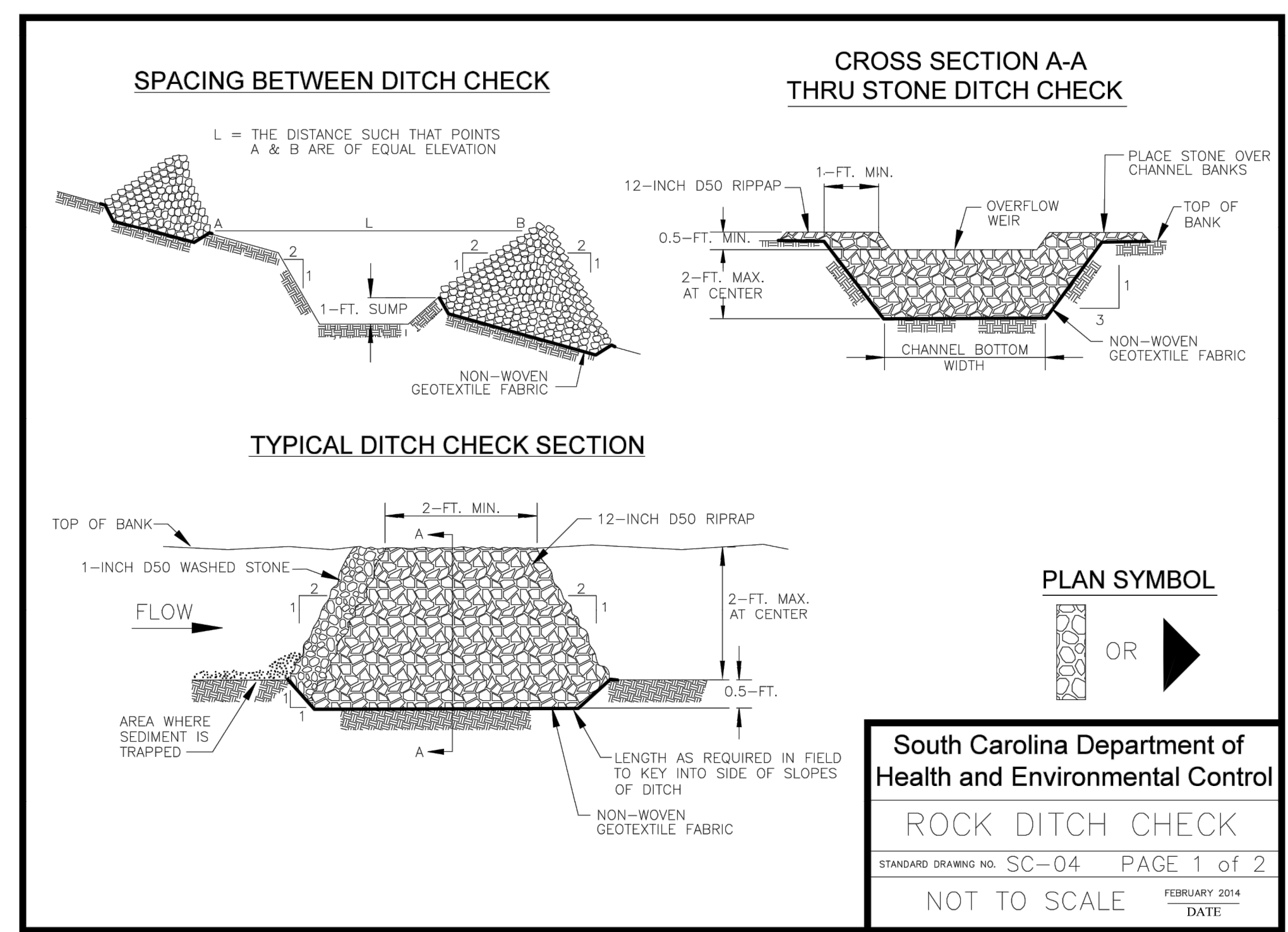
Designer: **GHH** Checked by: **KTC**
Technician: **MTW/NWM** Project Number: **166622**

REVISIONS			
No.	Description	Date	By
A	ISSUED FOR 30% REVIEW	NOV. 2018	KTC
B	ISSUED FOR 60% REVIEW	MARCH 2019	KTC
C	ISSUED FOR PERMITS	MAY 2019	KTC
D	ISSUED FOR PERMIT REVIEW COMMENTS	AUG. 2019	KTC
E	ISSUED FOR BIDS	JAN. 2020	KTC
F	REVISED PER EASEMENT AGREEMENT	SEPT. 2020	KTC
G	RE-ISSUED FOR BIDS	NOV. 2020	KTC

Project Name: **NEW HERITAGE GRAVITY SEWER PHASE 2**

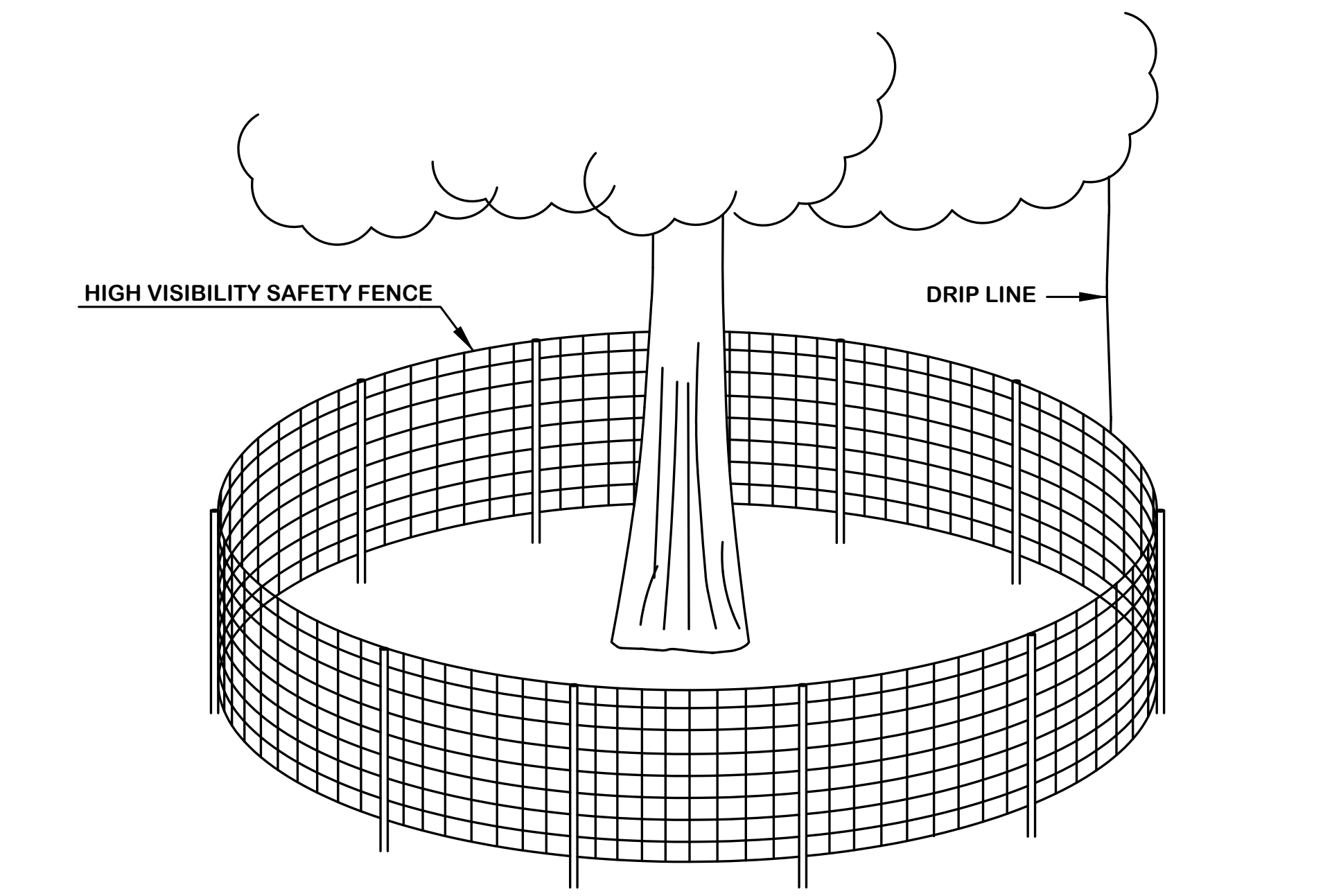
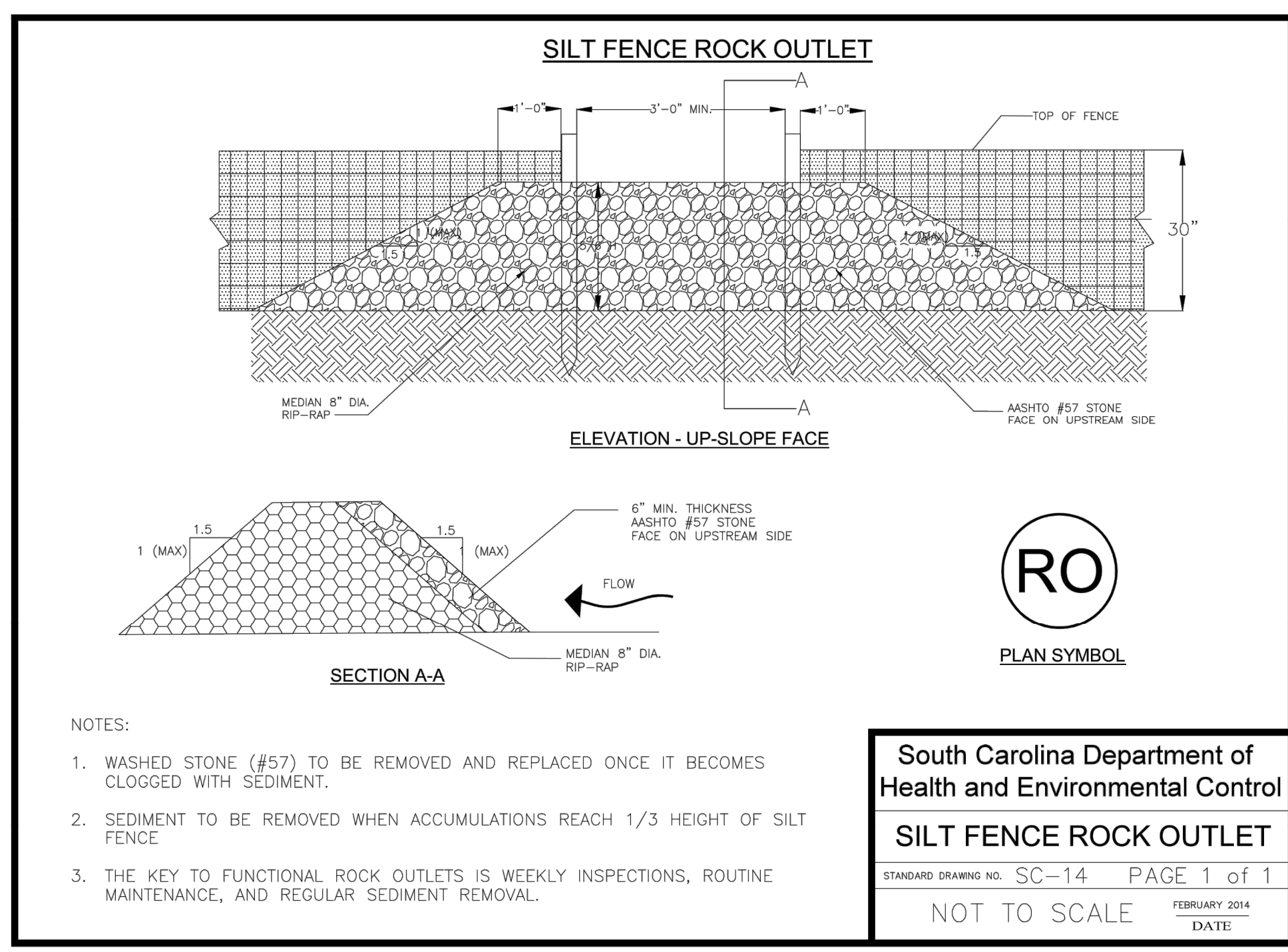
Drawing Name: **EROSION CONTROL DETAILS**

Municipality Project Number:
Date: **NOVEMBER 2020** Division: **WATER/WASTEWATER**
Scale: **AS NOTED** Sheet Number:
Drawing Number: **C3.4**



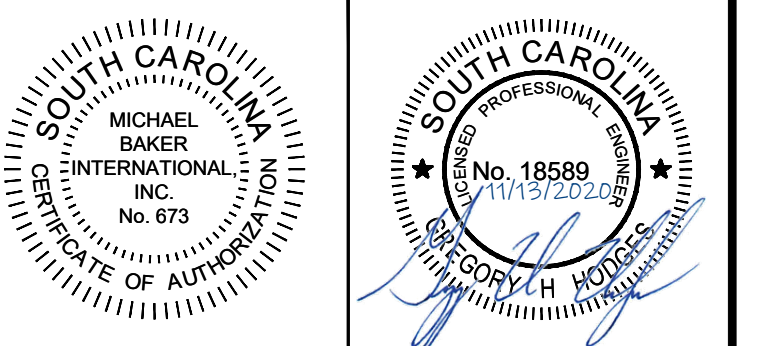
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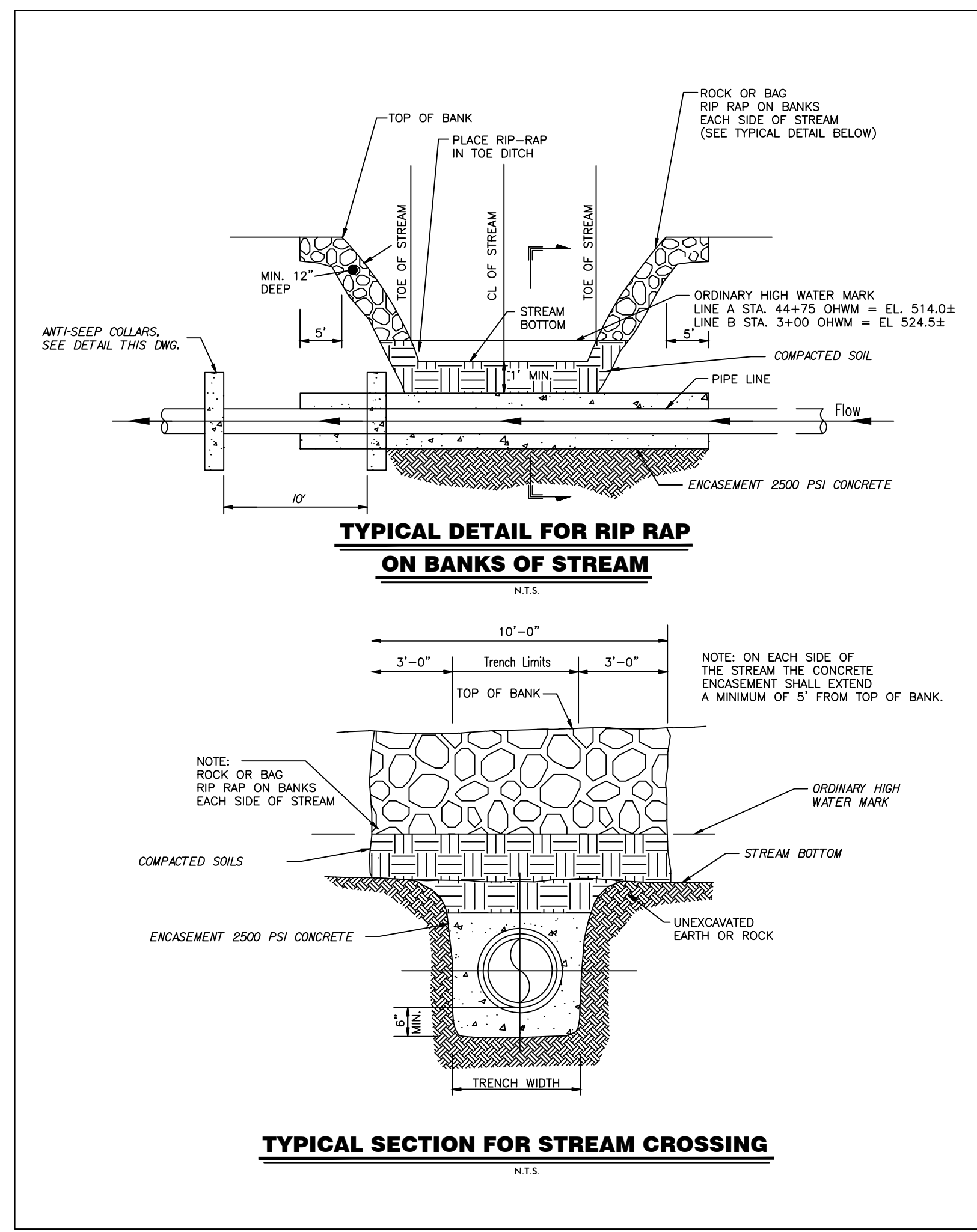
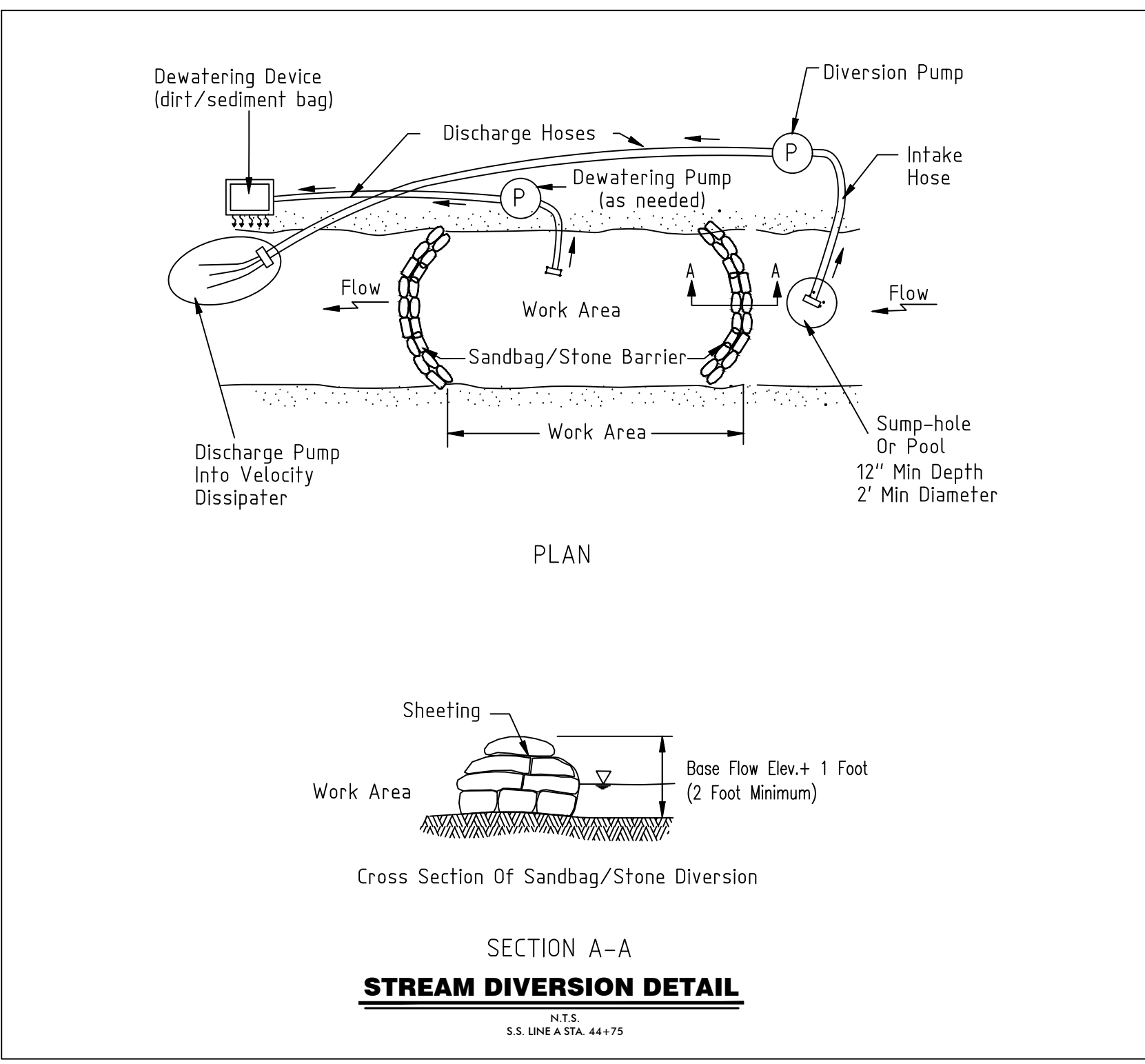
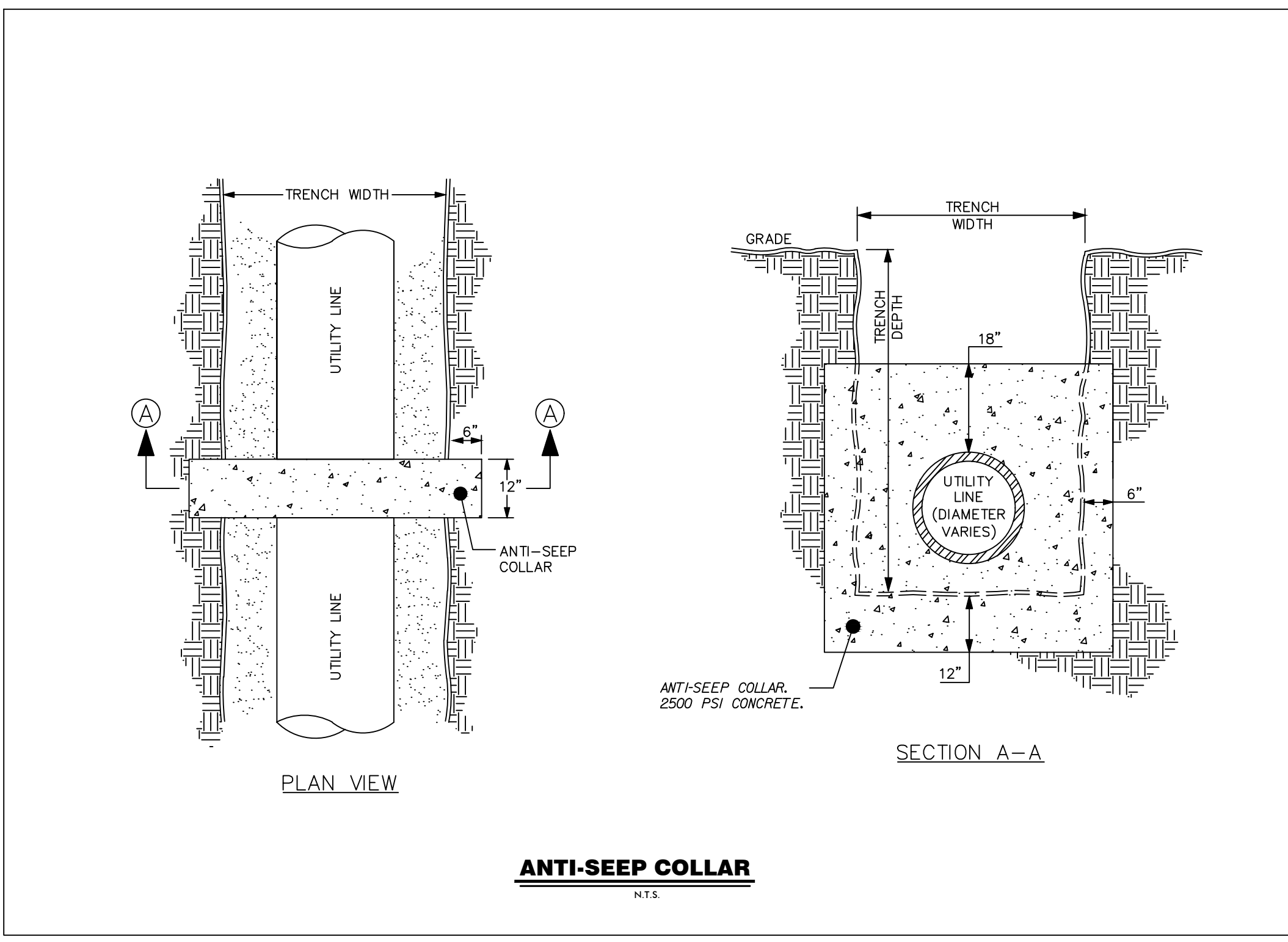


TREE PROTECTION

N.T.S.
NOTE: SHOWN AS ON PLANS.
PAID FOR PER EACH COMPLETE TREE PROTECTION.



Designer: **GHH** Checked by: **KTC**
Technician: **MTW/NWM** Project Number: **166622**



REVISIONS			
No.	Description	Date	By
A	ISSUED FOR 30% REVIEW	NOV. 2018	KTC
B	ISSUED FOR 60% REVIEW	MARCH 2019	KTC
C	ISSUED FOR PERMITS	MAY 2019	KTC
D	ISSUED FOR PERMIT REVIEW COMMENTS	AUG. 2019	KTC
E	ISSUED FOR BIDS	JAN. 2020	KTC
F	REVISED PER EASEMENT AGREEMENT	SEPT. 2020	KTC
G	RE-ISSUED FOR BIDS	NOV. 2020	KTC

Project Name: **NEW HERITAGE GRAVITY SEWER PHASE 2**

Drawing Name: **SEWER DETAILS**

Municipality Project Number:

Date: **NOVEMBER 2020** Division: **WATER/WASTEWATER**

Scale: **AS NOTED** Sheet Number:

Drawing Number: **C3.5**

REFER TO SHEET C2.5
PLAN VIEW FOR LOCATION
OF STREAM CROSSING.