

TOPOGRAPHIC SURVEY LEGEND

19+00	BC - BOTTOM OF CURB	⊙	SSMH - SANITARY SEWER MANHOLE
●	BASELINE STATION	⊙	SD - STORM DRAIN
○	BOLLARD	⊙	TC - TOP OF CURB
○	CENTER LINE	⊙	TRAV - TRAVERSE POINT
○	1" MAG. NAIL WITH ELEVATION	⊙	WM - WATER METER
○	COCC - CITY OF ELIZABETH CITY CONC. - CONCRETE	⊙	WMH - WATER MANHOLE
○	CPP - CORRUGATED PLASTIC PIPE	⊙	WV - WATER VALVE
○	DI - DROP INLET	⊙	CENTERLINE OF DITCH
⊠	ELECTRIC JUNCTION BOX	⊙	FENCE - METAL
⊠	EM - ELECTRIC METER	⊙	FENCE - OTHER
⊠	EP - EDGE OF PAVEMENT	⊙	TOP OF BANK/TOE OF SLOPE
⊠	FH - FIRE HYDRANT	⊙	EDGE OF ASPHALT PAVEMENT
⊠	INV - INVERT	⊙	EXISTING RIGHT-OF-WAY
⊠	PL - PLASTIC	⊙	EXISTING STORM DRAIN PIPE
⊠	P/P - POWER POLE	⊙	OVERHEAD UTILITY LINE
⊠	RCP - REINFORCED CONCRETE PIPE	⊙	VEGETATION - CANOPY (DRIP) LINE
⊠	SINGLE SIGN POST	⊙	VEGETATION - STRUB LINE
⊠	SPOT GRADE LOCATION	⊙	SAN - SANITARY SEWER LINE
⊠	SCO - SEWER CLEAN OUT	⊙	W - WATER LINE - BASED ON GIS INFORMATION

JMT CONTROL POINTS

Point	Northing	Easting	Elevation	Description
201	937,135.325	2,817,115.252	4.90	TRAV.MAG. NAIL(S)
202	936,989.577	2,816,710.623	6.37	TRAV.MAG. NAIL(S)
203	936,918.469	2,816,434.770	6.78	TRAV.MAG. NAIL(S)
204	936,805.122	2,816,073.624	7.15	TRAV.MAG. NAIL(S)
205	936,668.697	2,815,693.957	7.57	TRAV.MAG. NAIL(S)

DESIGN LEGEND

⊙	PROPOSED WATER METER
⊙	PROPOSED BEND
⊙	PROPOSED FIRE HYDRANT
⊙	PROPOSED TEE
⊙	PROPOSED WATER VALVE
⊙	PROPOSED SANITARY SEWER CLEANOUT
⊙	PROPOSED SANITARY SEWER MANHOLE
⊙	PROPOSED SANITARY SEWER LINE
⊙	PROPOSED WATER LINE

NOTES

- ONCE OPERATIONS COMMENCE, THE CONTRACTOR SHALL PROVIDE REGULAR UPDATES TO THE CITY. THE FREQUENCY OF UPDATES SHALL BE AGREED UPON DURING THE PRECONSTRUCTION MEETING.
- THE CONTRACTOR SHALL ENSURE THAT ALL WORK MEETS THE STATE MINIMUM DESIGN AND TESTING CRITERIA.
- THE CONTRACTOR SHALL COORDINATE ALL SERVICE DISRUPTIONS WITH THE CITY OF ELIZABETH CITY PUBLIC UTILITIES DEPARTMENT AND IS RESPONSIBLE FOR PROVIDING 24 HOUR ADVANCE NOTIFICATION OF ANY SCHEDULED DISRUPTIONS TO THE OWNERS AND/OR TENANTS OF ALL AFFECTED PROPERTIES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES IN THE CONSTRUCTION AREA PRIOR TO COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY UTILITIES DAMAGED DURING CONSTRUCTION.
- THE CONTRACTOR SHALL VERIFY ALL SIZES AND QUANTITIES PRIOR TO ORDERING MATERIALS.
- DURING CONSTRUCTION, THE CONTRACTOR SHALL NOT COVER ANY PIPE UNTIL IT HAS BEEN INSPECTED BY THE CITY OF ELIZABETH CITY PUBLIC UTILITIES DEPARTMENT.
- SEWER LINES SHALL BE SDR-26 UNLESS OTHERWISE APPROVED OR REQUIRED. ALL PIPES SHALL COMPLY WITH AWWA AND ASTM STANDARDS. IF DUCTILE IRON PIPE IS USED, IT SHALL BE COATED WITH PROTECTO 401 CERAMIC EPOXY.
- WATER LINES SHALL BE C900 UNLESS OTHERWISE APPROVED OR REQUIRED. ALL PIPES SHALL COMPLY WITH AWWA AND NSF STANDARDS. ALL PIPES SHALL BEAR THE NSF DESIGNATION FOR POTABLE WATER.
- THE CONTRACTOR IS RESPONSIBLE FOR CUTTING, REMOVING, AND DISPOSING OF ANY PAVEMENT IMPACTED BY THE UNDERGROUND UTILITY WORK. DISPOSAL FEES SHOULD BE INCLUDED IN THE PAVEMENT REMOVAL AND DISPOSAL LINE ITEM IN THE PROPOSAL FORM.
- THE CONTRACTOR IS RESPONSIBLE FOR RESURFACING ANY REMOVED PAVEMENT. THE PAVEMENT THICKNESS CAN BE ASSUMED TO BE 4 INCHES. QUANTITIES ABOVE OR BELOW THIS DEPTH WILL BE HANDLED ACCORDINGLY. PAVEMENT REPAIR SHALL BE 98% COMPACTION OF FILL, 6" ABC STONE, 2" TYPE I 198, 2" TYPE SF 9.5A OR 98% COMPACTION OF FILL, 6" ABC STONE, 4" TYPE SF 9.5A. A LINE ITEM FOR PAVEMENT REPAIR IS INCLUDED IN THE PROPOSAL FORM.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR BACKFILL IF ANY EXCAVATED MATERIAL IS NOT SUITABLE TO BE PLACED BACK ON THE PIPE.
- CONNECTION TO EXISTING WATER MAIN(S) SHALL BE COORDINATED WITH THE CITY OF ELIZABETH CITY PUBLIC UTILITIES DEPARTMENT.
- THE CONTRACTOR SHALL REPLACE ALL WATER SERVICES AS INDICATED ON THE PLANS. CONTRACTOR SHALL CONFIRM THE PRESENCE AND/OR LOCATION OF ALL WATER METERS PRIOR TO CONSTRUCTION.
- SANITARY LATERAL LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE AND NOT GUARANTEED. THE CONTRACTOR SHALL LOCATE AND RECONNECT SEWER SERVICES TO THE EXISTING CLEANOUT. IF NO CLEANOUT IS PRESENT, THEN A CLEANOUT SHOULD BE ADDED TO THE EXISTING SERVICE LATERAL AT THE PROPERTY LINE.
- THE CONTRACTOR IS TO INSTALL NEW WATER SERVICE LINES/METER BOXES AND SANITARY SEWER LATERALS/CLEANOUTS TO THE VACANT PARCELS DESIGNATED ON THE PLANS IN ORDER TO AVOID FUTURE DISRUPTION OF THE PAVED ROADWAY.
- NEW SEWER LINE PIPE SHOULD CONNECT TO EXISTING MANHOLES WITH A RUBBER BOOT.
- THE CONTRACTOR SHALL COMPLETE A POST VIDEO INSPECTION.
- ALL TRAFFIC CONTROL IS THE RESPONSIBILITY OF THE CONTRACTOR.
- FOLLOWING CONSTRUCTION THE CONTRACTOR SHALL PERFORM A 2" MILL AND OVERLAY OF THE CONSTRUCTION LIMITS WITH 2" TYPE SF 9.5A. SEE SHEETS 5 THRU 7 FOR LIMITS OF MILL AND OVERLAY.
- LIMITS OF LAND DISTURBANCE AREA - 32,300 SQ.FT (0.74 AC)
- WATER MAINS SHALL BE LAID AT LEAST 10 FEET LATERALLY FROM EXISTING OR PROPOSED SEWERS, UNLESS LOCAL CONDITIONS OR BARRIERS PREVENT A 10-FOOT LATERAL SEPARATION, IN WHICH CASE:
 - I THE WATER MAIN SHALL BE LAID IN A SEPERATE TRENCH, WITH THE ELEVATION OF THE BOTTOM OF THE WATER MAIN AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER. OR
 - II THE WATER MAIN SHALL BE LAID IN THE SAME TRENCH AS THE SEWER, WITH THE WATER MAIN LOCATED AT ONE SIDE ON A BENCH OF UNDISTURBED EARTH AND WITH THE ELEVATION OF THE BOTTOM OF THE WATER MAIN AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER.



RAY STREET AT BROOKS AVENUE WATER AND SEWER REPLACEMENT

JULY 2024



DRAWING INDEX

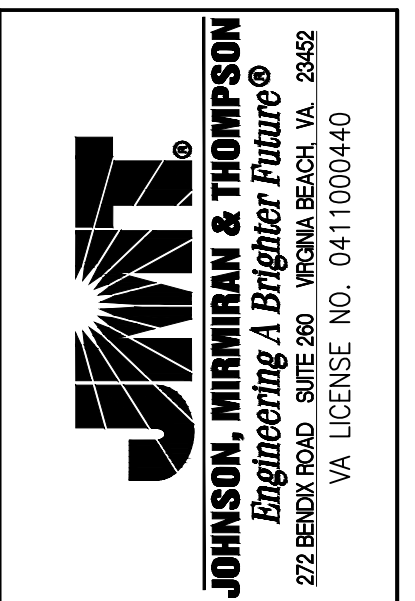
SHEET NO	DESCRIPTION
1	COVER SHEET
2	STATION 9+85 TO 16+00 EXISTING CONDITIONS
3	STATION 16+00 TO 22+00 EXISTING CONDITIONS
4	STATION 22+00 TO 26+60 EXISTING CONDITIONS
5	STATION 9+93 TO 16+00 PLAN AND PROFILE
6	STATION 16+00 TO 22+00 PLAN AND PROFILE
7	STATION 22+00 TO 26+60 PLAN AND PROFILE
8	EROSION AND SEDIMENT CONTROL AND NOTES AND DETAILS
9	DETAILS

SUGGESTED SEQUENCE OF CONSTRUCTION

THIS SUGGESTED SEQUENCE OF CONSTRUCTION IS NOT INTENDED TO INDICATE ALL DETAILS THAT MUST BE CONSIDERED AND IS NOT INTENDED TO DICTATE MEANS OR METHODS OF CONSTRUCTION. RATHER, SUGGESTS A GENERAL SEQUENCE OF CONSTRUCTION GIVEN THE KNOWN SITE CONDITIONS DURING THE PLANNING STAGES OF DESIGN. CONTRACTOR IS RESPONSIBLE FOR COORDINATION AND MAINTAINING SERVICES TO RESIDENTS AT ALL TIMES TO THE FULLEST EXTENTS POSSIBLE DURING CONSTRUCTION AND MUST BE PREPARED TO ALTER ANY PLANNED SEQUENCING AS SITE CONDITIONS DURING CONSTRUCTION MAY DICTATE.

- OBTAIN NECESSARY PERMITS.
- DEVELOP, SUBMIT, AND RECEIVE APPROVAL OF TEMPORARY TRAFFIC CONTROL PLAN, CONSTRUCTION SCHEDULE, OR OTHER WORK PLANS SPECIFIED WITHIN THE CONTRACT SPECIFICATION.
- SUBMIT A SCHEDULE OF VALUES FOR ALL LUMP SUM ITEMS SHOWN ON THE BID FORM AND RECEIVE APPROVAL.
- SETUP PRE-CONSTRUCTION MEETING WITH CITY.
- INSTALL TEMPORARY CONSTRUCTION ENTRANCE, IF APPLICABLE. ESTABLISH PERIMETER PROTECTION AND MAINTAIN THROUGHOUT CONSTRUCTION.
- INSTALL SEDIMENT TRAPPING DEVICES AROUND DRAINAGE STRUCTURES AND MAINTAIN THROUGHOUT CONSTRUCTION.
- SUBMIT BYPASS PUMPING PLAN FOR APPROVAL PRIOR TO ORDERING EQUIPMENT. 24-HOUR MONITORING OF BYPASS OPERATIONS SHALL BE PROVIDED WITH PRIMARY AND SECONDARY CONTACT PERSONNEL TO RESPOND TO THE ALARM WITHIN 30-MINUTES NOTIFICATION.
- INSTALL NEW IN TRENCH SANITARY SEWER MAINS AND MANHOLES FROM THE EXISTING MANHOLE AT THE BROOKS AVE AND RAY ST INTERSECTION WESTWARD TO MH#6. REMOVE EXISTING SEWER AS NEEDED FOR NEW SEWER SYSTEM INSTALLATION. INSTALL AND CONNECT NEW SANITARY SEWER LATERALS AND CLEANOUTS AS THE NEW SEWER MAINS AND MANHOLES ARE INSTALLED. PROVIDE BACKFILL AND PAVEMENT SECTION WITH TEMPORARY SURFACE PAVEMENT. TEST NEW SANITARY SEWER PIPING AND MANHOLES AND OBTAIN APPROVAL. ABANDON ANY REMAINING EXISTING SEWERS NOT REMOVED DURING INSTALLATION OF NEW SYSTEM.
- INSTALL NEW IN TRENCH WATER MAINS, VALVES, AND HYDRANTS FROM NEW TS&V CONNECTION AT THE EXISTING MAIN WITHIN THE BROOKS AVE AND RAY ST INTERSECTION WESTWARD TO THE NEW BOV. INSTALL WATER SERVICES ALONG WITH NEW MAIN CONSTRUCTION. PROVIDE BACKFILL AND PAVEMENT SECTION WITH TEMPORARY SURFACE PAVEMENT. FLUSH, PRESSURE TEST, AND DISINFECT NEW SYSTEM AND OBTAIN APPROVALS. EXISTING WATER SYSTEM TO REMAIN IN SERVICE TO THE FULLEST EXTENT POSSIBLE DURING CONSTRUCTION. NOTE: NEW GATE VALVE MAY BE REQUIRED ON NEW TEE-BRANCH LINE. PUT NEW MAIN IN SERVICE.
- TIE-IN NEW WATER SERVICES TO EXISTING HOME SERVICES LINES.
- SHUTDOWN EXISTING WATER MAINS ALONG RAY ST AND AT MADISON AVE CONNECTION. AN OWNER APPROVED INSERTION VALVE MAY BE NEEDED AT BROOKS AVE TO ISOLATE EXISTING WATER MAINS. CONNECT NEW WATER MAIN TO EXISTING WITH NEW SPOOL AND COUPLING FOR A COMPLETED WATER SYSTEM. PLUG AND ABANDON EXISTING WATER MAINS AND SERVICES.
- PERFORM MILL AND OVERLAY.
- REPAIR ANY INADVERTENT EROSION AND REMOVE ANY INADVERTENT SEDIMENTATION.
- COMPLETE ANY SITE WORK, MAKE ANY REPAIRS TO CONCRETE AND GRAVEL DRIVES, OR ANY OTHER MISCELLANEOUS WORK DEEMED ACCEPTABLE TO THE CITY INCLUDING TEMPORARY AND PERMANENT SEEDING.
- BEGIN CLOSEOUT PROJECT PROCEDURES INCLUDING SUBSTANTIAL COMPLETION PUNCHLIST ITEMS, SUBMIT ASBULTS, COMMISSIONING, ETC.
- AFTER VEGETATION IS ESTABLISHED, ENSURE THAT NO SILT OR DEBRIS REACHES THE DRAINAGE SYSTEM.
- REMOVE REMAINING TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES WITHIN 30 DAYS AFTER THE WORK AREA IS STABILIZED WITH VEGETATIVE GROWTH.
- REMOVE ALL TEMPORARY EQUIPMENT, CONSTRUCTION MATERIALS AND DEBRIS FROM THE SITE.

NCDEQ
DIVISION OF WATER
INFRASTRUCTURE
CDBG NO. 19-I-3648
CDBG NO. 21-I-4004



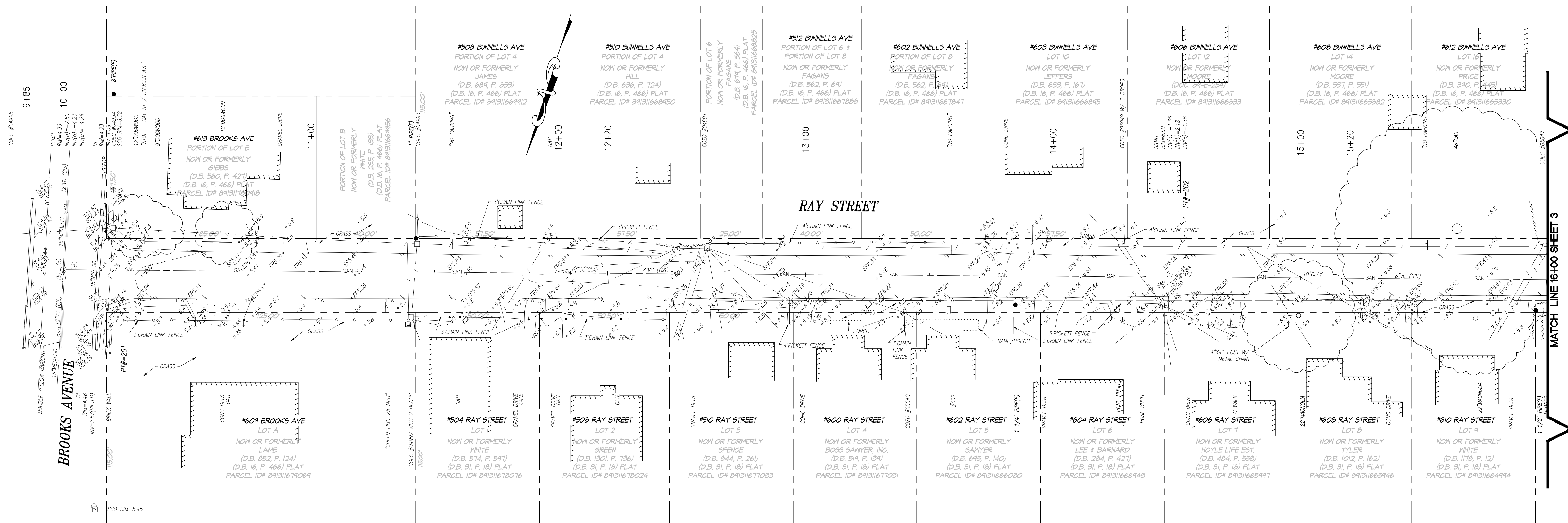
Plan Prepared For:
CITY OF ELIZABETH CITY
DEPARTMENT OF PUBLIC UTILITIES
410 PRITCHARD STREET
ELIZABETH, NC 27809
ATTN: PUBLIC UTILITIES DIRECTOR
(252) 337 - 6628

RAY STREET AT BROOKS AVENUE
WATER AND SEWER REPLACEMENT PROJECT
COVER SHEET
ELIZABETH CITY
NORTH CAROLINA

Revisions	Description
No.	Date



Designed By: CAT
Cadd Tech: ELW/JLR
Checked By: RAM
Date: JULY 2024
Scale:
Project No: 19-03429-003
Sheet No.



- SURVEY NOTES:**
- THIS SURVEY WAS PERFORMED WITHOUT THE BENEFIT OF A TITLE REPORT AND THEREFORE MAY NOT DEPICT ALL MATTERS THAT AFFECT THE SUBJECT PARCELS.
 - THIS PLAN/SURVEY DOES NOT REPRESENT A BOUNDARY SURVEY. RIGHT-OF-WAY SHOWN HEREON IS APPROXIMATE IN NATURE AND BASED ON PLATS, DEEDS AND FIELD LOCATED MONUMENTS.

DATUM DESCRIPTION

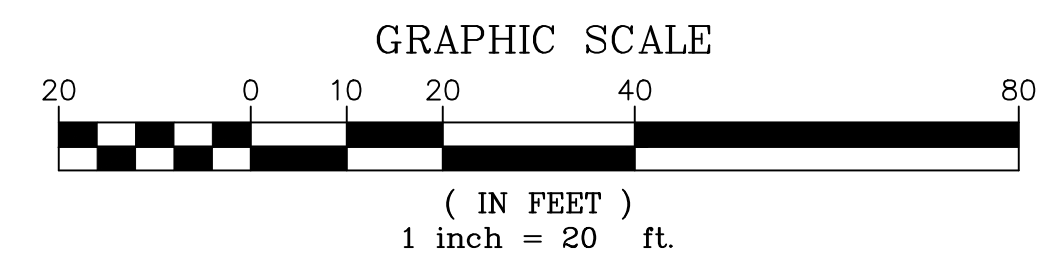
THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCGS FOR MONUMENT "EX3666" "TS23" WITH NAD 83/2001 STATE PLANE GRID COORDINATES OF NORTHING: 937395.22(ft) EASTING: 2818347.65(ft) ELEVATION: 5.0(ft)

THE AVERAGE COMBINED SCALE FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 1.00004369

ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES VERTICAL DATUM USED IS NAVD88

I, MARK A. HASKETT, A PROFESSIONAL SURVEYOR IN THE STATE OF NORTH CAROLINA, HEREBY CERTIFY TO THE BEST OF MY KNOWLEDGE AND BELIEF THAT THE PROFESSIONAL SURVEYING SERVICES PERFORMED FOR THE CITY OF ELIZABETH CITY, NC UNDER MY SUPERVISION IN SEPTEMBER 2020 FOR THIS PROJECT ARE WITHIN ACCEPTED SURVEYING AND ENGINEERING GENERAL PRACTICES AND PROCEDURES.

Mark A. Haskett 04.09.21
 MARK A. HASKETT, PLS L-3420



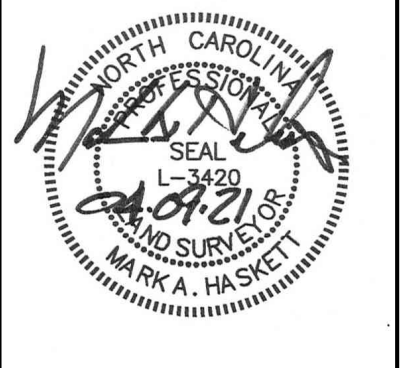
JOHNSON, MIRMIRAN & THOMPSON
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 VA LICENSE NO. 0411000440

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**RAY STREET AT BROOKS AVENUE
 WATER AND SEWER REPLACEMENT PROJECT
 EXISTING CONDITIONS
 STA 9+85 TO STA 16+00**

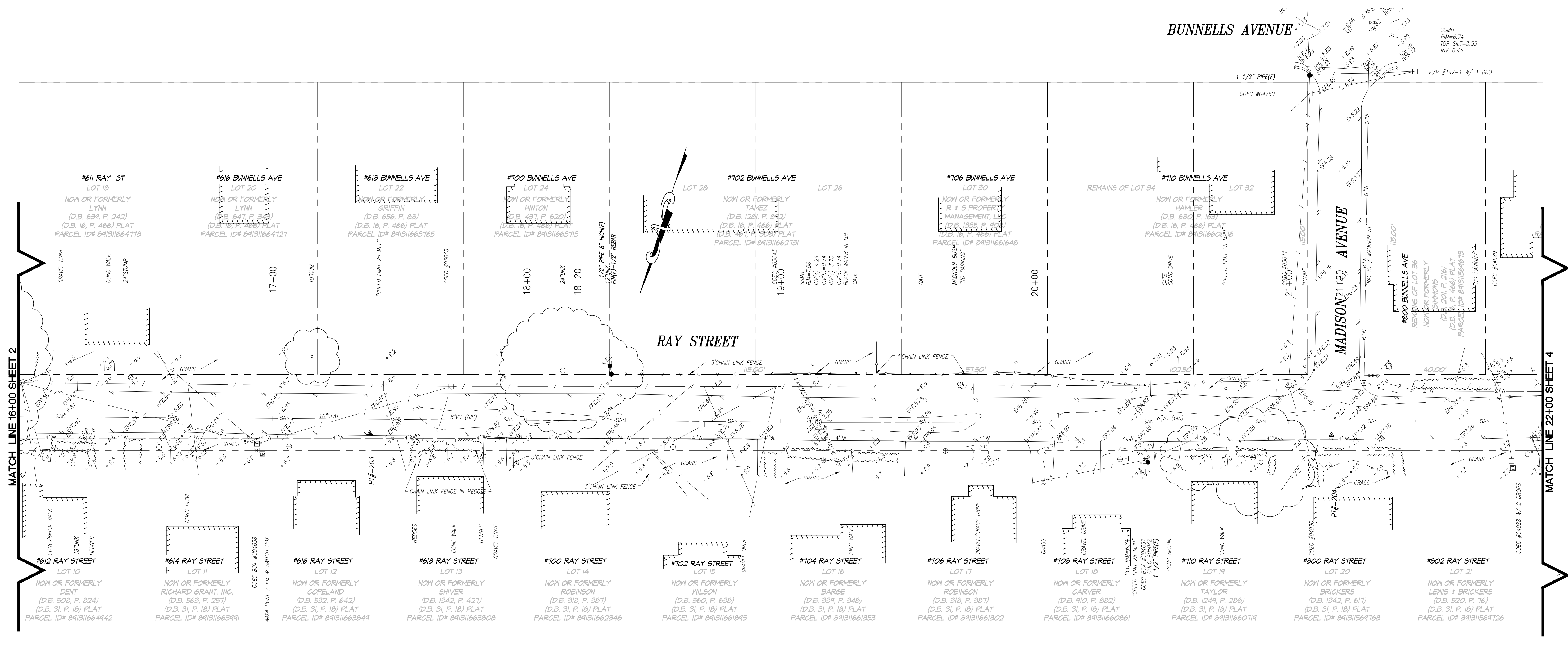
ELIZABETH CITY NORTH CAROLINA

No.	Date	Description
1	12/19/24	EX WTR. MAIN REV PER NCGO COMMENT DATED 12/6/24



Surveyed By: MAH
 Cadd Tech: ELW/JLR
 Checked By: RAM
 Date: JULY 2024
 Scale: 1" = 20'

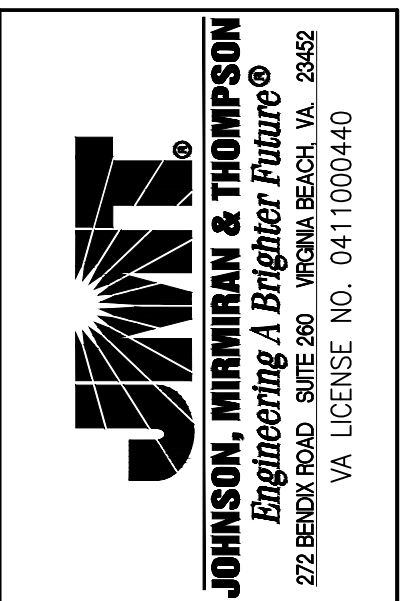
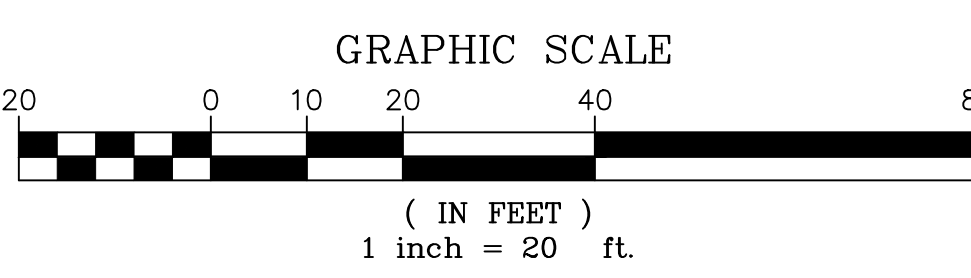
Project No: 19-03429-003
 Sheet No. 2 of 9



BUNNELLS AVENUE
 1 1/2" PIPE(F)
 COEC #04780
 SSMH
 RM=6.74
 TOP SILT=3.55
 MW=0.45
 P/P #142-1 W/ 1 DRO

RAY STREET

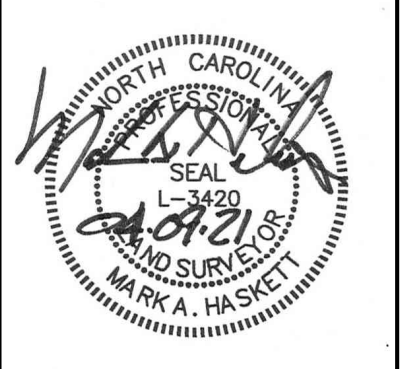
NOTE: SEE SHEET 2 FOR SURVEY NOTES AND CERTIFICATIONS.



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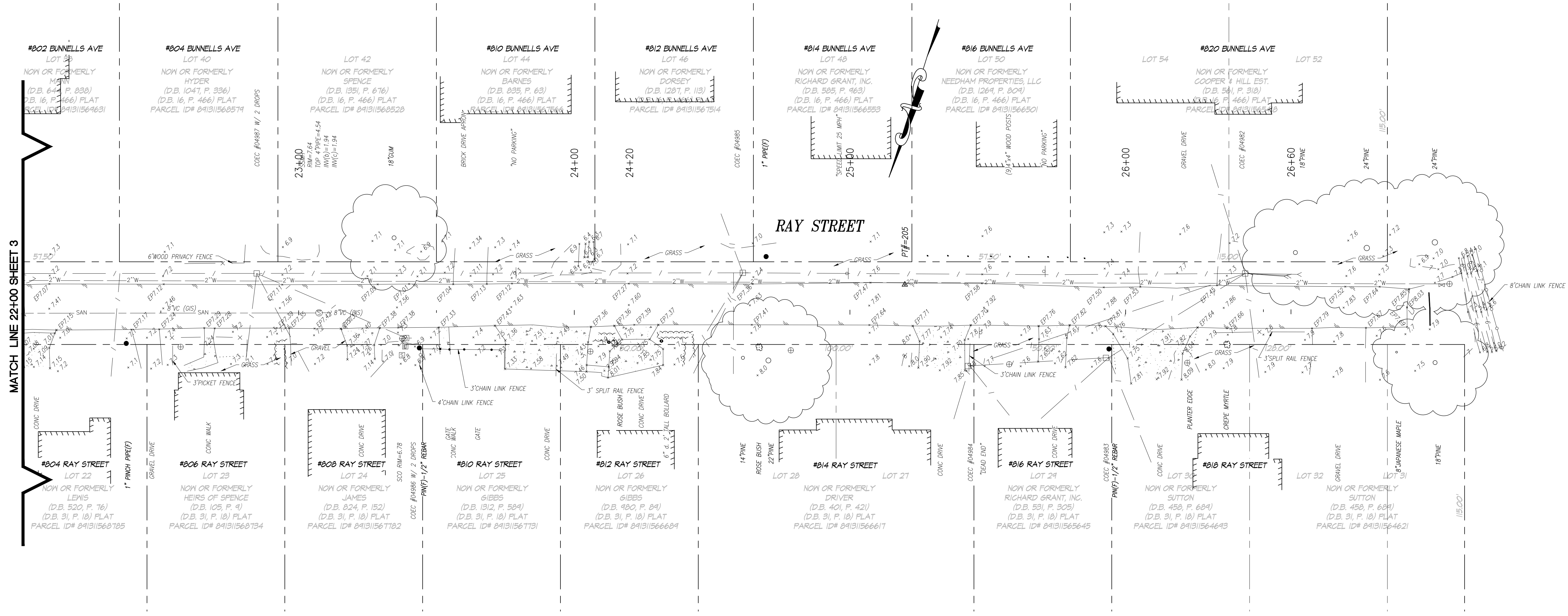
RAY STREET AT BROOKS AVENUE
 WATER AND SEWER REPLACEMENT PROJECT
 EXISTING CONDITIONS
 STA 16+00 TO STA 22+00
 ELIZABETH CITY NORTH CAROLINA

No.	Date	Description
1	12/19/24	EX WTR. MAIN REV PER NCEC COMMENT DATED 12/6/24



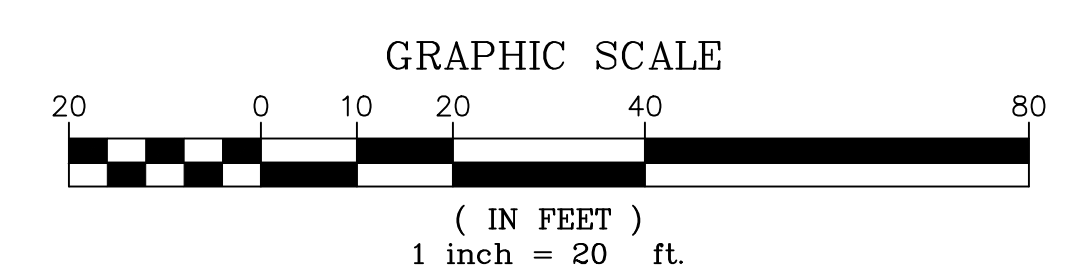
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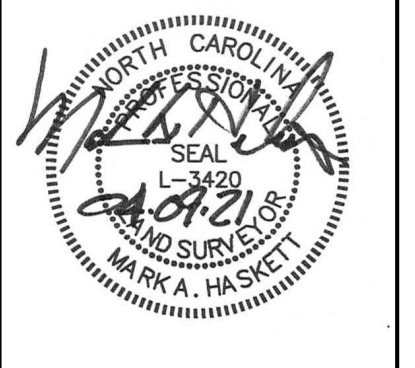


MATCH LINE 22+00 SHEET 3

NOTE: SEE SHEET 2 FOR SURVEY NOTES AND CERTIFICATIONS.



No.	Date	Description

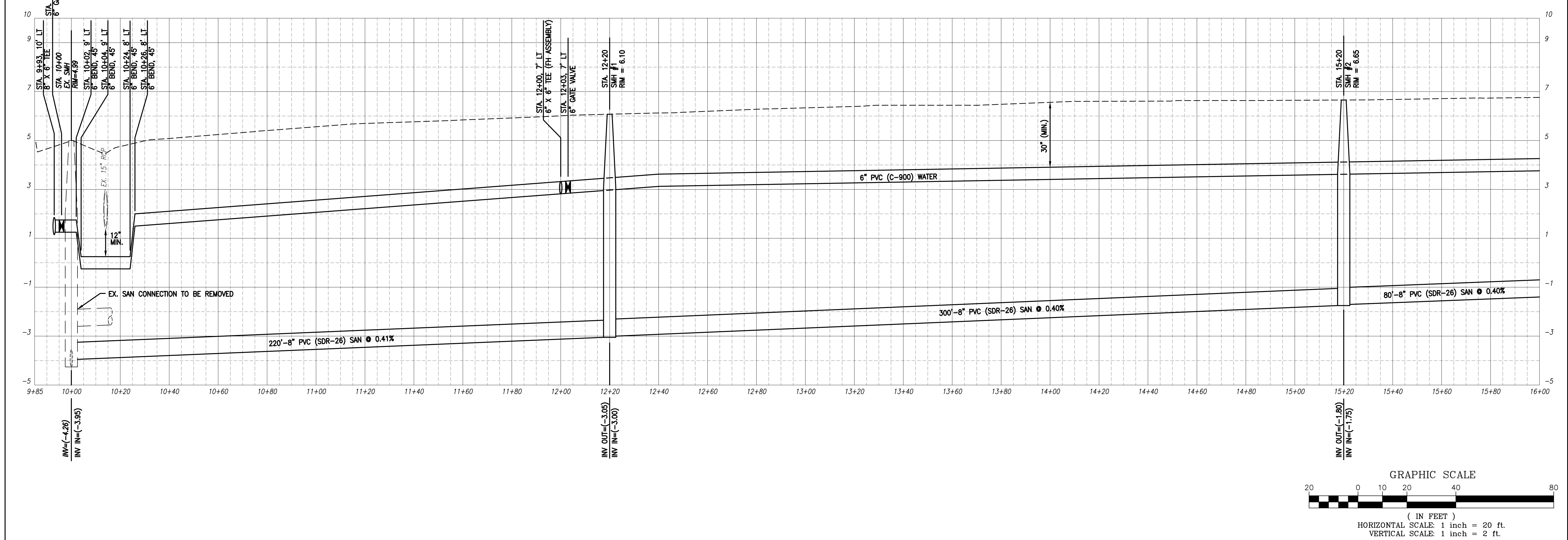
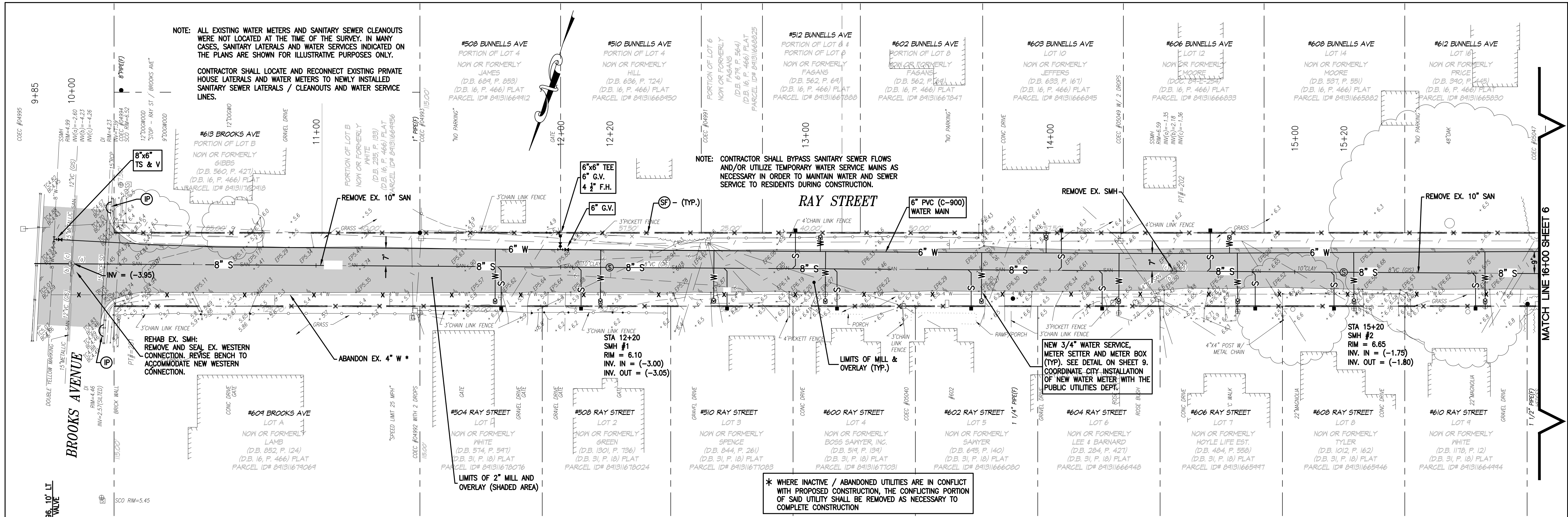


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 Sheet No. 4 of 9

RAY STREET AT BROOKS AVENUE
WATER AND SEWER REPLACEMENT PROJECT
EXISTING CONDITIONS
STA 22+00 TO STA 26+60
 NORTH CAROLINA
 ELIZABETH CITY

Plan Prepared For:
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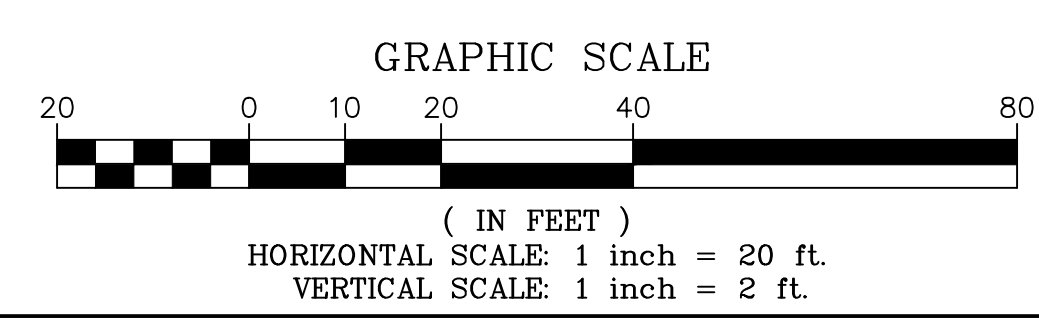
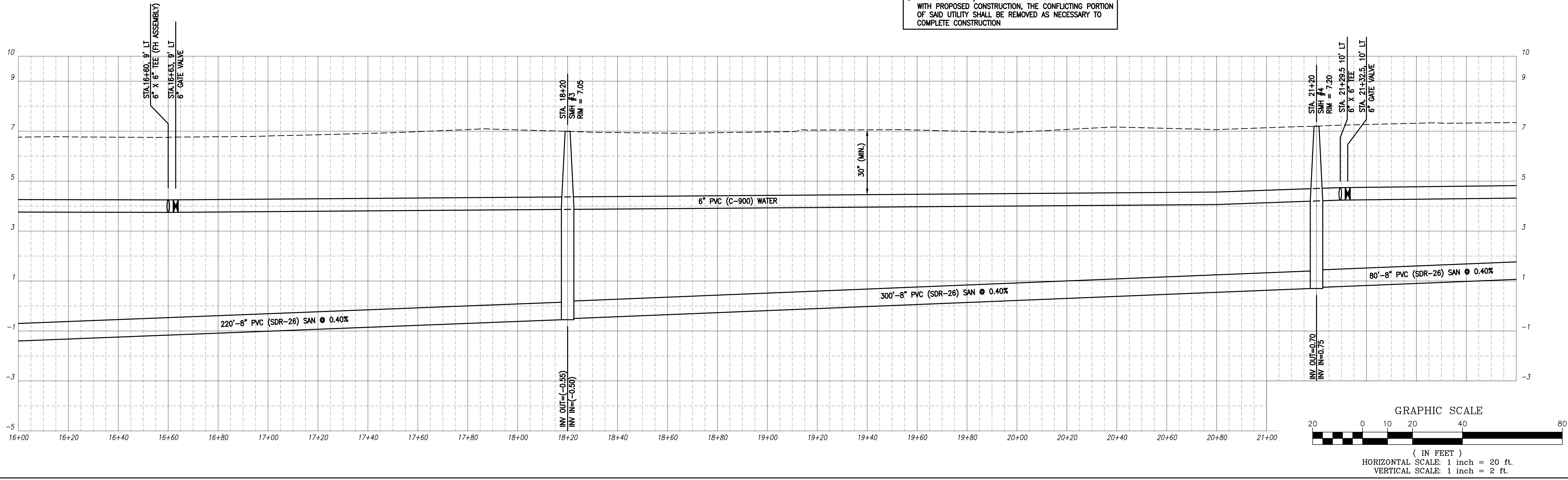
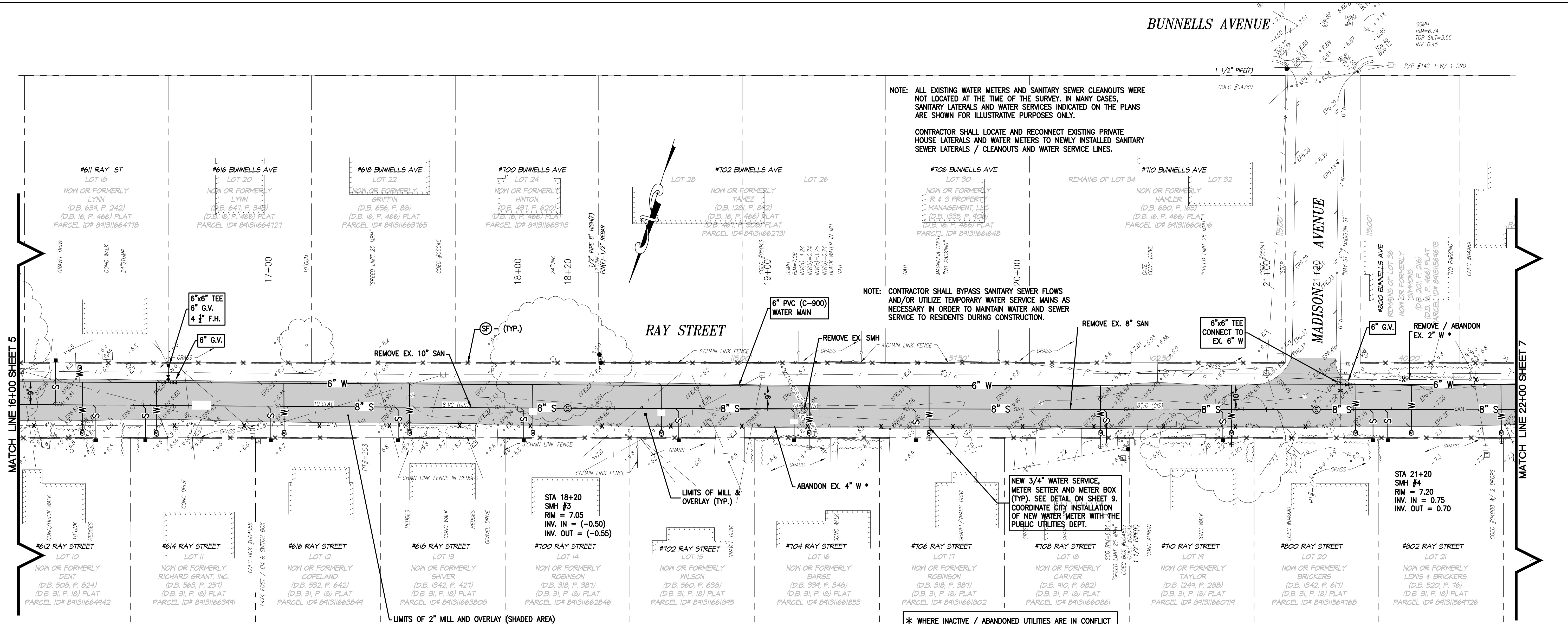
Plan Prepared For:
 CITY OF ELIZABETH CITY
 DEPARTMENT OF PUBLIC UTILITIES
 410 PRITCHARD STREET
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**RAY STREET AT BROOKS AVENUE
 WATER AND SEWER REPLACEMENT PROJECT
 PLAN AND PROFILE
 STA 9+93 TO STA 16+00**

No.	Date	Description
1	12/19/24	EX WTR. MAIN REV PER NCEC COMMENT DATED 12/6/24



Designed By: CAT
 Cadd Tech: ELW/JLR
 Checked By: RAM
 Date: JULY 2024
 Scale: 1" = 20'
 Project No: 19-03429-003
 Sheet No. 5 of 9



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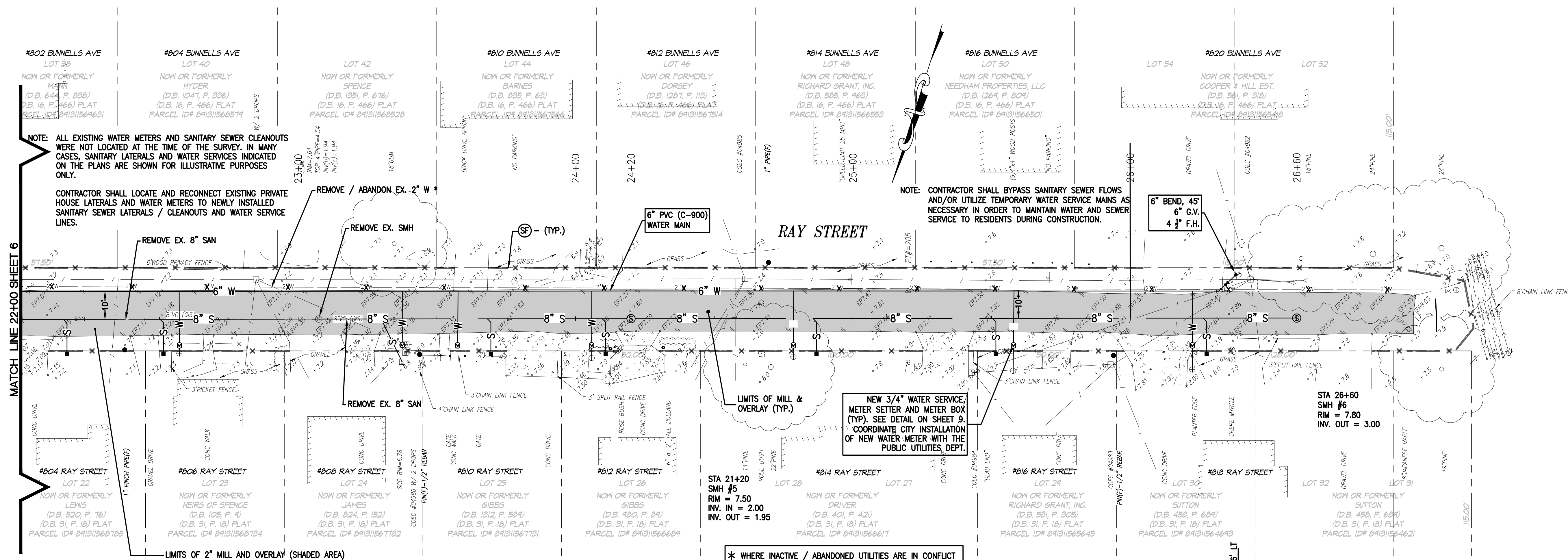
**RAY STREET AT BROOKS AVENUE
 WATER AND SEWER REPLACEMENT PROJECT
 PLAN AND PROFILE
 STA 16+00 TO STA 22+00**

ELIZABETH CITY NORTH CAROLINA

No.	Date	Description
1	12/19/24	EX. WIR. MAIN REV PER NCCCO COMMENT DATED 12/16/24



Designed By: CAT
 Cadd Tech: ELW/JLR
 Checked By: RAM
 Date: JULY 2024
 Scale: 1" = 20'
 Project No: 19-03429-003
 Sheet No. 6 of 9



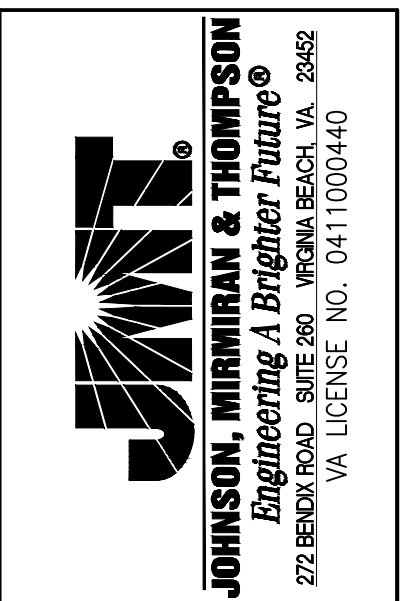
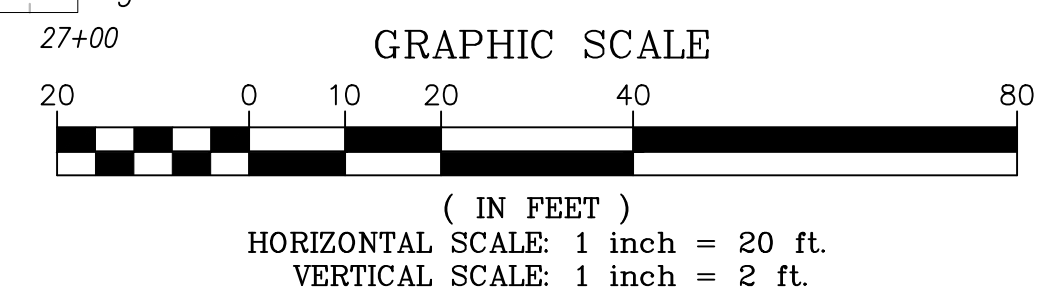
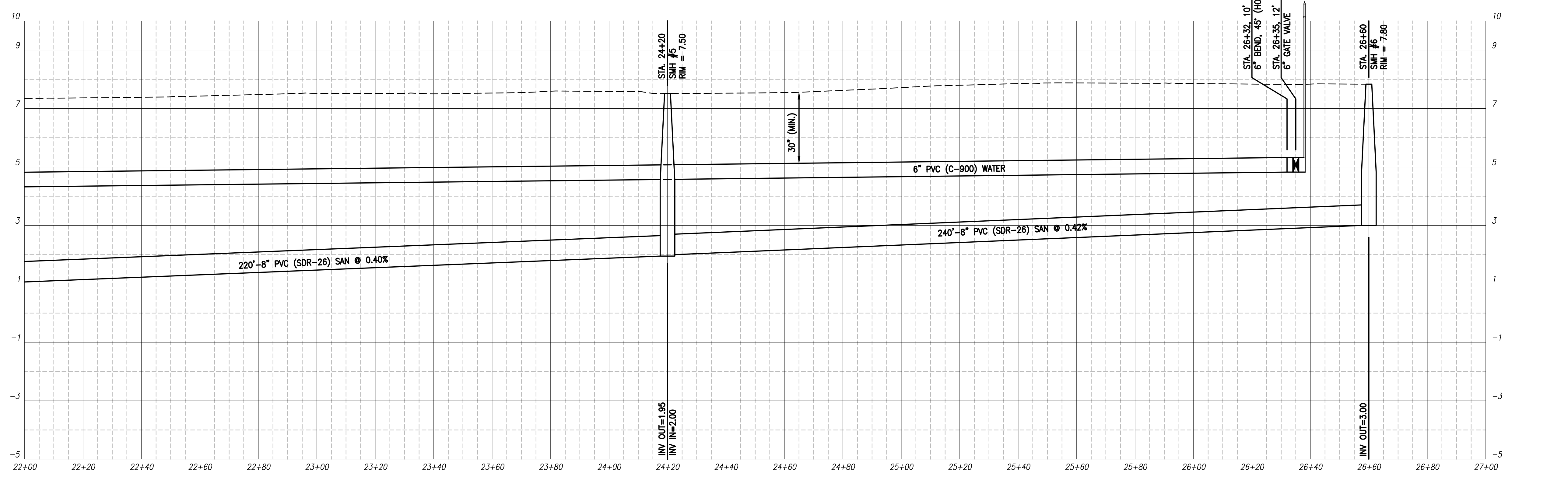
NOTE: ALL EXISTING WATER METERS AND SANITARY SEWER CLEANOUTS WERE NOT LOCATED AT THE TIME OF THE SURVEY. IN MANY CASES, SANITARY LATERALS AND WATER SERVICES INDICATED ON THE PLANS ARE SHOWN FOR ILLUSTRATIVE PURPOSES ONLY.

CONTRACTOR SHALL LOCATE AND RECONNECT EXISTING PRIVATE HOUSE LATERALS AND WATER METERS TO NEWLY INSTALLED SANITARY SEWER LATERALS / CLEANOUTS AND WATER SERVICE LINES.

NOTE: CONTRACTOR SHALL BYPASS SANITARY SEWER FLOWS AND/OR UTILIZE TEMPORARY WATER SERVICE MAINS AS NECESSARY IN ORDER TO MAINTAIN WATER AND SEWER SERVICE TO RESIDENTS DURING CONSTRUCTION.

NEW 3/4" WATER SERVICE, METER SETTER AND METER BOX (TYP). SEE DETAIL ON SHEET 9. COORDINATE CITY INSTALLATION OF NEW WATER-METER WITH THE PUBLIC UTILITIES DEPT.

* WHERE INACTIVE / ABANDONED UTILITIES ARE IN CONFLICT WITH PROPOSED CONSTRUCTION, THE CONFLICTING PORTION OF SAID UTILITY SHALL BE REMOVED AS NECESSARY TO COMPLETE CONSTRUCTION



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RAY STREET AT BROOKS AVENUE
 WATER AND SEWER REPLACEMENT PROJECT
 PLAN AND PROFILE
 STA 22+00 TO STA 26+60
 ELIZABETH CITY NORTH CAROLINA

No.	Date	Revisions	Description



Designed By: CAT
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 Date: JULY 2024
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 Project No: 19-03429-003
 Sheet No. 7 of 9

