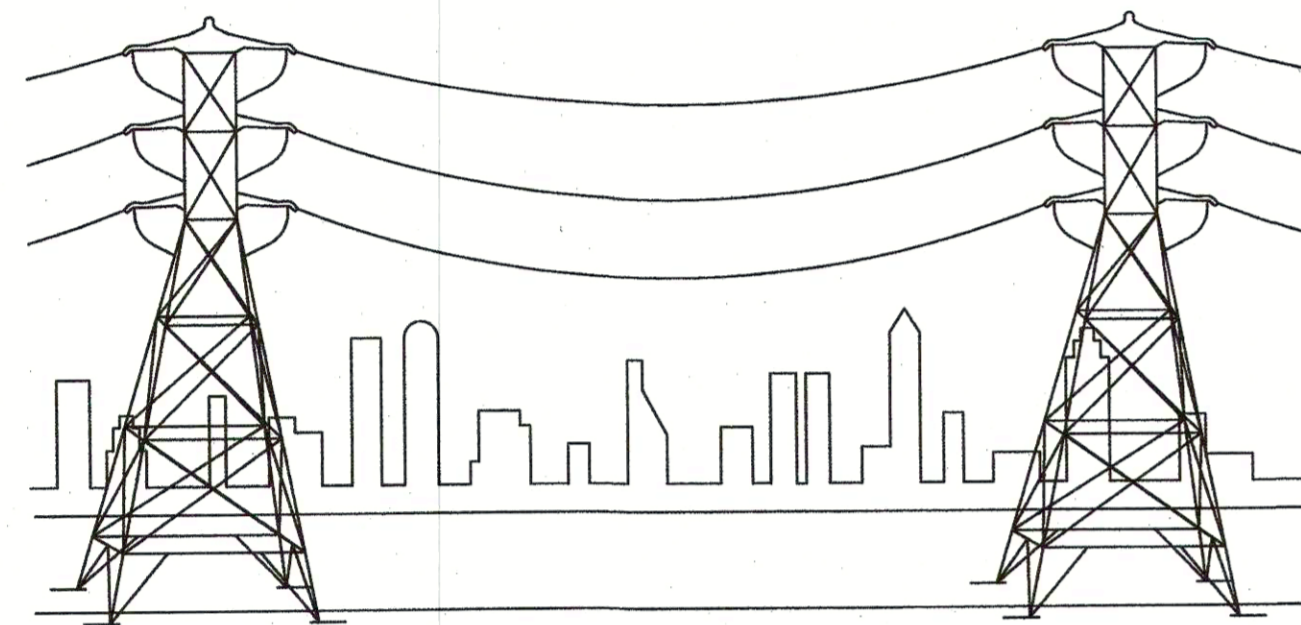


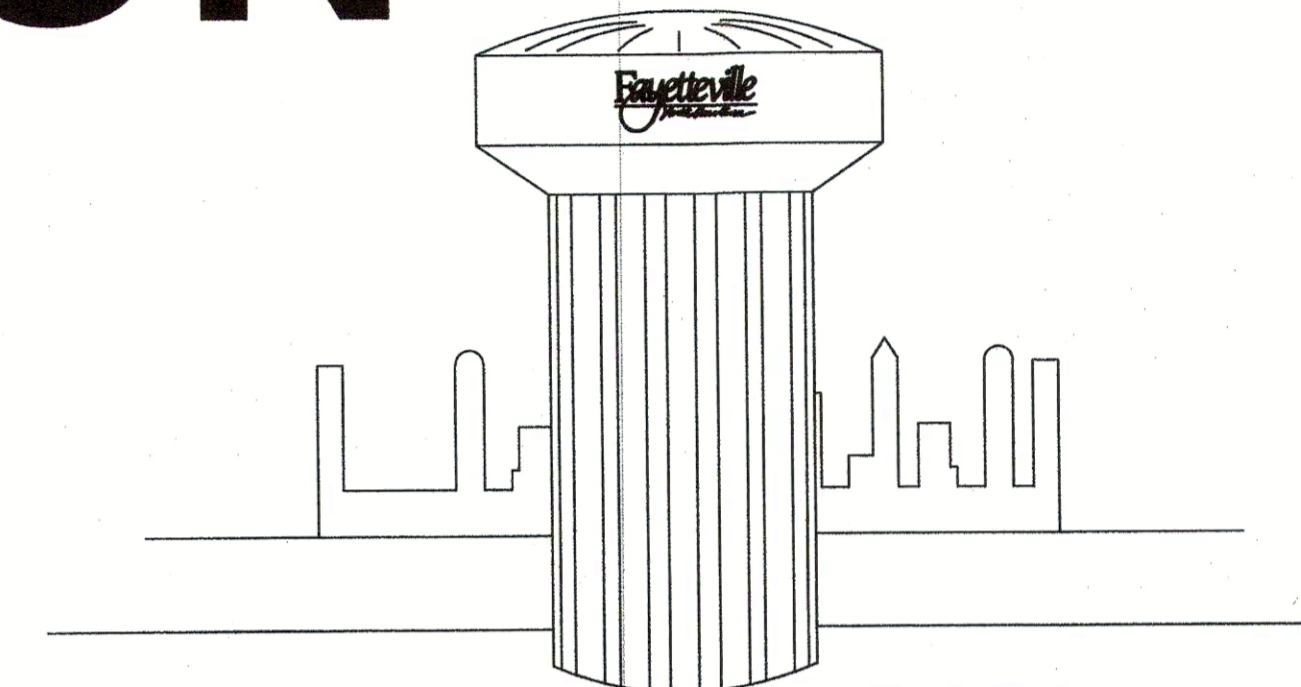
FAYETTEVILLE PUBLIC WORKS COMMISSION

FAYETTEVILLE, N.C.



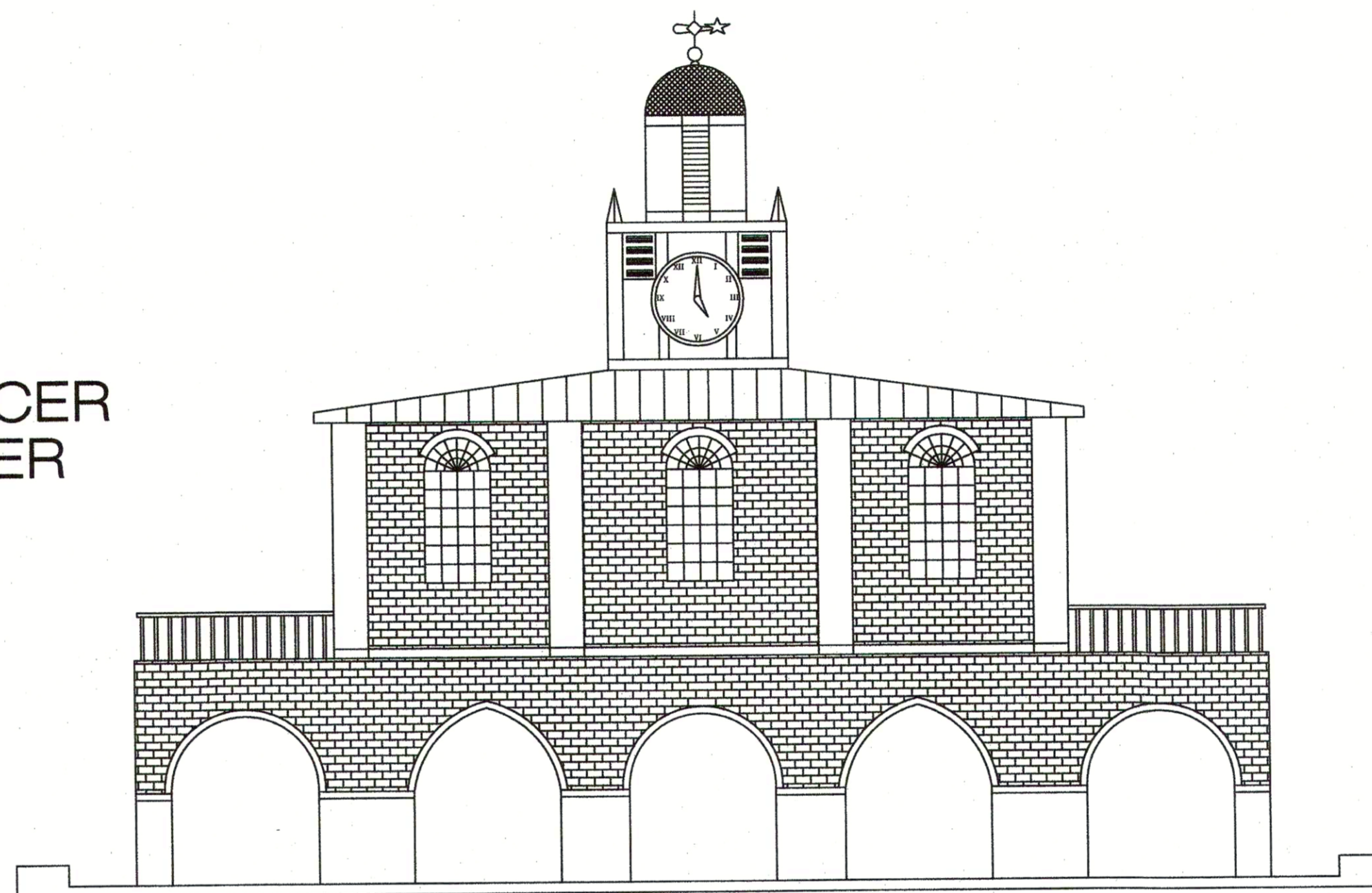
ELECTRICAL

JONATHAN RYNNE - ELEC. SYS. CHIEF OPER. OFFICER
RICK ANDERSON - ELEC. SYS. ENGINEER MANAGER



WATER RESOURCES

M.J. NOLAND -W/R CHIEF OPER. OFFICER
MISTY M. MANNING -W/R ENGR. MANAGER



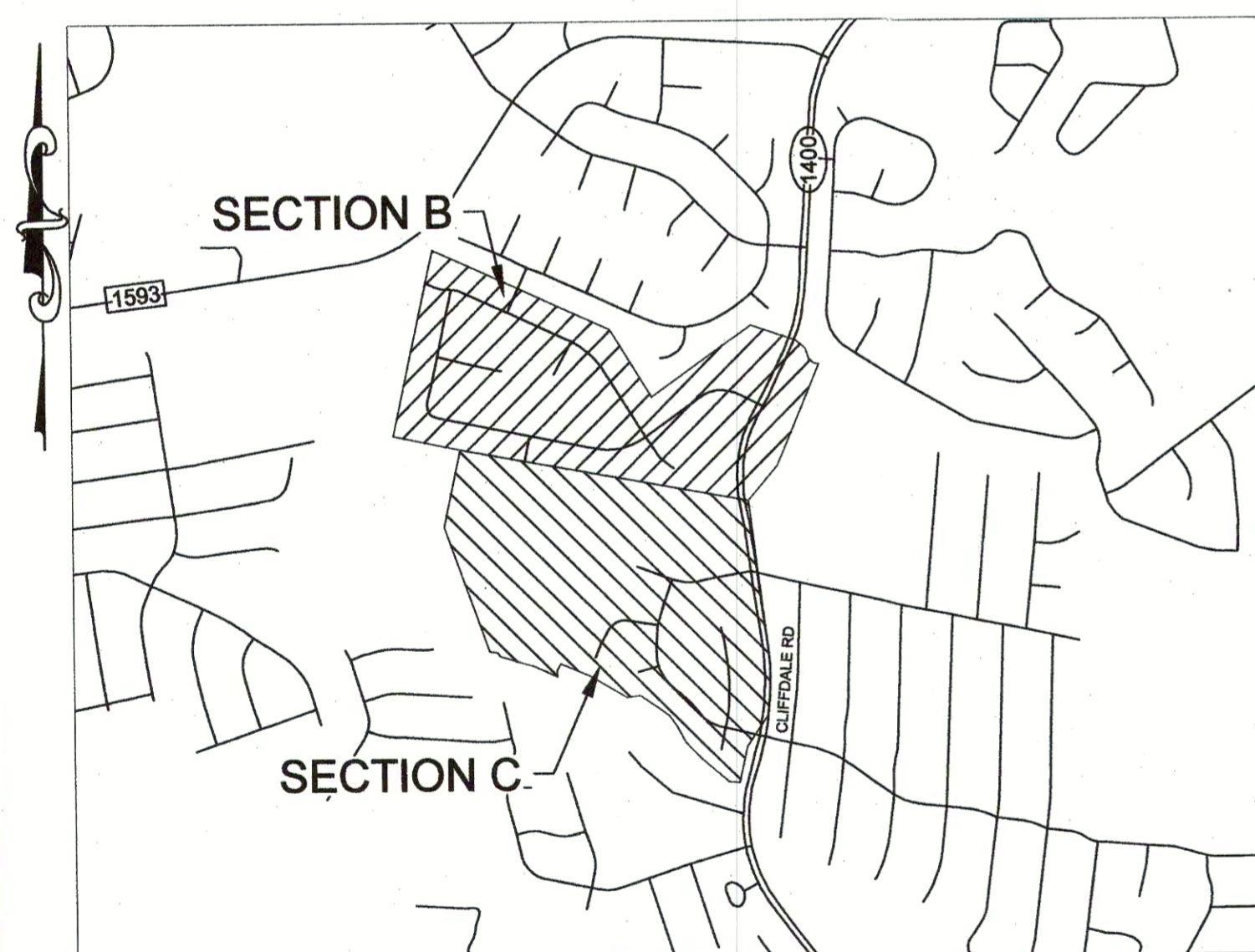
PWC COMMISSIONERS

Chairman - **WADE R. FOWLER, JR**
 Vice Chairman - **D. RALPH HUFF, III**
 Secretary - **DARSWEIL ROGERS**
 Treasurer - **EVELYN O. SHAW**
 General Manager - **ELAINA BALL**

PWC
 Water Resources Engineering
APPROVED FOR CONSTRUCTION
 Project Name: Annexation Phase V Area 24 B-C
 Water Permit #: N/A
 Sewer Permit #: PWC2021-5005
Misty Manning 3/9/2021
 Misty Manning, PE Date
 Engineering Manager

PWC FAYETTEVILLE PUBLIC WORKS COMMISSION
 PHASE V ANNEXATION, VILLAGE HILLS AND KING'S MILL SUBDIVISIONS AREA 24 B-C
 DRAWN BY: WJD WO # S-2008096
 ENG TECH: G. SMITH WO # N/A
 APPROVED BY: AK PERMIT # N/A
 DATE: 2-2-2021 PERMIT # PWC2021-5005
 SCALE: 1"=50' DS-15412
 PROJ#: 1400000033 # OF SHEETS: 43

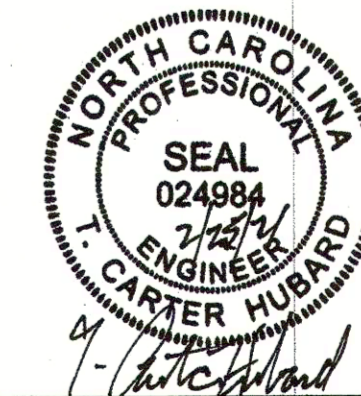
Sheet List Table	
Sheet Number	Sheet Title
-	COVER
C1	GENERAL NOTES & SHEET INDEX
C2	OVERALL SEWER LAYOUT AREA B
C3	OVERALL SEWER LAYOUT AREA B (2)
C4	OVERALL SEWER LAYOUT AREA C
C5	EROSION CONTROL NOTES
C6	EROSION CONTROL AREA B1
C7	EROSION CONTROL AREA B2
C8	EROSION CONTROL AREA B3
C9	EROSION CONTROL AREA C1
C10	EROSION CONTROL AREA C2
C11	EROSION CONTROL AREA C3
C12	YEOMAN DR
C13	SEAFORD DR 3
C14	SEAFORD DR 3 (1)
C15	HICKORY KNOLL COLLECTOR
C16	SEAFORD DR 2
C17	SEAFORD DR 1
C18	BOSTIC DR 1
C19	AREA B OUTFALL 2
C20	BANGOR CT AND SEXTON CT BACKYARD 1
C21	SEXTON CT BACKYARD 2 & BOSTIC UPPER CONN
C22	BOSTIC DR 2 & BOSTIC DR 3
C23	CLIFFDALE RD CROSSING
C24	SEAFORD OUTFALL
C25	SCOTTSDALE OUTFALL
C26	PADDINGTON PL
C27	BOND CT OUTFALL & SCOTTSDALE DR-1
C28	SCOTTSDALE DR-2
C29	SCOTTSDALE DR-2 STORM
C30	GUINEVERE CT & GUINEVERE CT OUTFALL
C31	CHARRING CROSS-1 & CHARRING CROSS-2
C32	HICKORY KNOLL
G1	SEWER DETAILS
G2	SEWER DETAILS (2)
G3	MISCELLANEOUS DETAILS
G4	MISCELLANEOUS DETAILS (2)
G5	EROSION CONTROL DETAILS
G6	EROSION CONTROL DETAILS (2)
G7	EROSION CONTROL DETAILS (3)
G8	STORM DRAINAGE DETAILS
G9	STORM DRAINAGE DETAILS (2)
G10	STORM DRAINAGE DETAILS (3)



VICINITY MAP
N.T.S.

FAYETTEVILLE ANNEXATION PHASE V, PROJECT XI, CONSTRUCTION AREA 24 SECTIONS B-C

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 NC LICENSE NO. F-6074



PWC DWG # DS-15412
 WKD SEWER PRJ # 20190126.00.RA

GENERAL NOTES:

- ACCESS TO SITES SHALL BE BY PUBLIC RIGHT-OF-WAYS AND UTILITY EASEMENTS. OTHER ACCESS LOCATIONS REQUIRED SHALL BE SECURED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER. SUPPLEMENTAL EROSION CONTROL MEASURES SHALL BE REQUIRED TO INCLUDE CONSTRUCTION ENTRANCES, SILT FENCING, RESTORATION, ETC. ADDITIONAL MEASURES SHALL BE INCLUDED AS PART OF A SUPPLEMENTAL EROSION CONTROL PLAN PREPARED BY THE CONTRACTOR.
- THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE THE CONSTRUCTION STAGING AREA AT HIS EXPENSE.
- THE CONTRACTOR IS EXPECTED AND REQUIRED TO COOPERATE WITH THE PROPERTY OWNERS AFFECTED BY THE WORK. THE OWNER DISCOURAGES PRIVATE AGREEMENTS. PRIVATE AGREEMENTS MUST BE IN WRITING ON A FORM APPROVED BY THE ENGINEER AND A COPY SHALL BE PROVIDED TO THE ENGINEER PRIOR TO PROCEEDING WITH CONSTRUCTION ACTIVITIES AFFECTED BY SAID AGREEMENT. THE AGREEMENT MUST SPECIFY THAT FAYWC, THE CITY AND THE ENGINEER SHALL BE HELD HARMLESS AGAINST ALL CLAIMS ARISING FROM THE AGREEMENT, BEFORE FINAL ACCEPTANCE. A RELEASE FROM EACH PROPERTY OWNER THAT THE CONTRACTOR HAS MADE AN AGREEMENT WITH SHALL BE REQUIRED. THE PROPERTY OWNER'S RELEASE IS A CONDITION OF FINAL ACCEPTANCE.
- CONTRACTOR SHALL PROVIDE MEASURES DURING CONSTRUCTION TO SECURE THE SITE AND EXCAVATION FROM THE GENERAL PUBLIC AND COMPLY WITH ALL OSHA REGULATIONS. JOB SITE SAFETY IS THE EXCLUSIVE AND SOLE RESPONSIBILITY OF THE CONTRACTOR. OPEN EXCAVATION LEFT UNATTENDED OR OVER NIGHT IS NOT ACCEPTABLE AND SHALL BE FILLED IMMEDIATELY.
- CONTRACTOR SHALL REPAIR OR REPLACE DRIVES DISTURBED BY CONSTRUCTION TO EXISTING OR BETTER CONDITIONS. NO SEPARATE PAYMENT UNLESS OTHERWISE INDICATED.
- CONTRACTOR SHALL PROVIDE TEMPORARY FENCING WHERE FENCES ARE REMOVED FOR CONSTRUCTION. CONTRACTOR SHALL COORDINATE FENCE REMOVAL/REPLACEMENT WITH INDIVIDUAL PROPERTY OWNERS PRIOR TO REMOVAL. ANY FENCING REMOVED SHALL BE REPLACED WITH NEW MATERIALS. CONTRACTOR SHALL REINSTALL ALL SHEDS, ETC. TO AS GOOD OR BETTER THAN EXISTING CONDITIONS UNLESS OTHERWISE INDICATED.
- CONTRACTOR SHALL REPLACE ALL DISTURBED MAILBOXES, SIGNS, ETC. DISTURBED DURING CONSTRUCTION WITHIN 24 HOURS OF DISTURBANCE. PERMANENT ROAD SIGNAGE AND PAVEMENT MARKINGS DISTURBED SHALL BE REPLACED IMMEDIATELY AND IF NECESSARY ROADWAY SIGNS SHALL BE TEMPORARILY INSTALLED IN A LOCATION CONSISTENT WITH THE NCDOT TO PROVIDE CONTINUOUS TRAFFIC AWARENESS OF ROADWAY CONDITIONS. (NO SEPARATE PAYMENT).
- CONTRACTOR SHALL PROVIDE SECURITY FENCING, SECURITY GUARD, AND ANY AND ALL OTHER MEASURES CONTRACTOR DEEMS NECESSARY TO PROTECT EQUIPMENT AND MATERIALS STORED ON THE PROJECT. (NO SEPARATE PAYMENT).
- CONTRACTOR SHALL SCHEDULE WORK AND MATERIAL DELIVERIES SO THAT STORED MATERIAL QUANTITIES ON THE JOB SITE SHALL BE MINIMIZED.
- AT THE PROPERTY OWNER'S REQUEST, THE CONTRACTOR SHALL DIG UP EXISTING SHRUBS AND BUSHES WITHIN UTILITY EASEMENT TO BE DISTURBED BY CONSTRUCTION AND SET OUTSIDE THE UTILITY EASEMENT AREA IN A LOCATION DETERMINED BY THE PROPERTY OWNER (NO SEPARATE PAYMENT). PROPERTY OWNER WILL BE RESPONSIBLE FOR REPLANTING SHRUBS AND BUSHES SO REMOVED, AND SHALL BE RESPONSIBLE FOR REESTABLISHING GROWTH. IF NO REQUEST IS MADE BY THE PROPERTY OWNER, DISTURBED SHRUBS AND BUSHES SHALL BE REMOVED AND DISPOSED OF OFF-SITE UNLESS OTHERWISE INDICATED.
- CLEARING AND GRUBBING SHALL BE RESTRICTED TO PERMANENT EASEMENTS ONLY. CONTRACTOR SHALL LIMIT TREE/BUSH CLEARING IN THE TEMPORARY EASEMENTS, BETWEEN HOUSES AND ALONG PROPERTY LINES TO ONLY ABSOLUTELY NECESSARY FOR CONSTRUCTION.

GENERAL UTILITY NOTES:

- PRIOR TO COMMENCEMENT OF ANY WORK WITHIN EASEMENTS OR RIGHTS-OF-WAYS THE CONTRACTOR IS REQUIRED TO NOTIFY CONCERNED UTILITY COMPANIES IN ACCORDANCE WITH GS 87-102. CONTRACTOR SHALL VERIFY LOCATION OF EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION. NO SEPARATE PAYMENT. EXISTING UTILITIES SHOWN ARE TAKEN FROM MAPS FURNISHED BY VARIOUS UTILITY COMPANIES AND HAVE NOT BEEN PHYSICALLY LOCATED (i.e. TELEPHONE, GAS, CABLE, ETC.).
- THE CONTRACTOR SHALL DIG UP EACH UTILITY WHICH MAY CONFLICT WITH CONSTRUCTION 14 DAYS IN ADVANCE TO VERIFY LOCATIONS (HORIZONTALLY AND VERTICALLY) TO ALLOW THE ENGINEER AN OPPORTUNITY TO ADJUST THE DESIGN TO AVOID CONFLICTS (NO SEPARATE PAYMENT).
- ALL SANITARY SEWER & WATER CONSTRUCTION SHALL BE IN ACCORDANCE WITH STANDARDS AND SPECIFICATIONS OF THE FAYETTEVILLE PUBLIC WORKS COMMISSION. STORM DRAINAGE, STREET CONSTRUCTION AND PAVING SHALL BE IN ACCORDANCE WITH THE CITY OF FAYETTEVILLE SPECIFICATIONS.
- UTILITY SERVICES TO INDIVIDUAL PROPERTIES ARE NOT SHOWN IN THE PROFILES FOR SIMPLICITY OF THE DRAWINGS. SERVICES MAY INCLUDE WATER LATERALS, TELEPHONE, ELECTRIC, CABLE, GAS, ETC.
- CONTRACTOR SHALL COORDINATE WITH UTILITY OWNER AND BE RESPONSIBLE FOR TEMPORARY RELOCATION AND/OR SECURING EXISTING UTILITY POLES AND SIGNS AND/OR UTILITIES IN ACCORDANCE WITH UTILITY OWNER REQUIREMENTS DURING THE UTILITY MAIN INSTALLATION AND STREET CONSTRUCTION. (NO SEPARATE PAYMENT).
- CONTRACTOR SHALL PROVIDE TEMPORARY SUPPORTS FOR UTILITY CROSSINGS AND REPAIR DAMAGES DUE TO CONSTRUCTION TO THE SATISFACTION OF THE UTILITY INVOLVED AT NO ADDITIONAL EXPENSE TO THE OWNER. UNDERGROUND ELECTRICAL CROSSINGS SHALL BE CROSSED IN ACCORDANCE WITH THE NEC AND TECHNICAL SPECIFICATION SECTION UNDERGROUND ELECTRICAL CROSSING REQUIREMENTS.
- WHERE DEEMED NECESSARY BY THE ENGINEER THAT A SUBSURFACE DRAINAGE SYSTEM IS REQUIRED, THE CONTRACTOR SHALL PROVIDE ALL MATERIALS, TOOLS, LABOR, EQUIPMENT, TIE-INS TO EXISTING DRAINAGE STRUCTURES AND ALL OTHER INCIDENTALS NECESSARY TO PROVIDE COMPLETE INSTALLATION IN ACCORDANCE WITH CITY OF FAYETTEVILLE STANDARDS. IMPROPERLY INSTALLED AND NON-FUNCTIONING DRAINAGE SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE. EXISTING FRENCH DRAINAGE DAMAGED DURING CONSTRUCTION SHALL BE REPLACED AND OR REPAIRED AT NO ADDITIONAL EXPENSE TO THE OWNER.
- STORM DRAINAGE REPAIRS BY CONTRACTOR DUE TO CONSTRUCTION DAMAGE AND JOINTS EXPOSED DURING CONSTRUCTION SHALL BE INSPECTED BY THE OWNER PRIOR TO BACKFILLING.
- NOT ALL UTILITIES THAT RUN PARALLEL ARE SHOWN IN THE PROFILES FOR SIMPLICITY OF THE DRAWINGS. UTILITIES THAT ARE NOT SHOWN MAY INCLUDE TELEPHONE, ELECTRIC, CABLE, FIBER OPTIC, ETC.
- CONTRACTOR SHALL INFORM EXISTING UTILITY OWNERS OF CONSTRUCTION SCHEDULE, SO THEY CAN BE ON CALL FOR ANY REPAIRS AND TO HELP PREVENT CONFLICTS.

AQUA NORTH CAROLINA, INC.
SCOTT MCMASTERS - 910-243-0559
SAMCMAS@AQUAAMERICA.COM

CENTURY LINK
ANGIE BURCHAM - 910-678-0246
ANGELA.H.BURCHAM@CENTURYLINK.COM

CITY OF FAYETTEVILLE (STORM WATER)
CHRIS HADDOCK - 910-433-1662
CHADDOCK@CI.FAY.NC.US

DUKE ENERGY (HIGH VOLTAGE TRANSMISSION)
BILL WILDER - 910-772-4903
BILL.WILDER@DUKE-ENERGY.COM

PIEDMONT NATURAL GAS
MICHAEL SEALY - 910-309-6888
MICHAEL.SEALY@PIEDMONTNG.COM

FAYETTEVILLE PUBLIC WORKS COMMISSION (ELECTRIC)
CAREY JACOBS - 910-223-4534
CAREY.JACOBS@FAYWC.COM

NCDOT TEMPORARY CONSTRUCTION DRIVEWAY

- THE TEMPORARY CONSTRUCTION DRIVEWAY SHALL BE REMOVED AND ALL DISTURBED PORTIONS OF RIGHT-OF-WAY RESTORED BY CONTRACTOR FOLLOWING ACCEPTANCE OF ALL WORK THAT SUCH ACCESS PROVIDED.
- CONTRACTOR TO ADHERE TO ALL APPLICABLE POLICIES AND REQUIREMENTS CONTAINED IN NCDOT'S "POLICY ON STREET AND DRIVEWAY ACCESS TO NORTH CAROLINA HIGHWAYS".

PROPOSED BACKWATER VALVE NOTE:

- PROPOSED SANITARY SEWER SERVICE IS RECOMMENDED TO HAVE A BACKWATER VALVE ON THE PROPERTIES INDICATED WITH A [BV]. THIS VALVE SHALL NOT BE THE CONTRACTOR'S RESPONSIBILITY AND IS RECOMMENDED TO BE INSTALLED BY THE PROPERTY OWNER.

PROPOSED GRINDER PUMP AND/OR REVERSE PLUMBING NOTES:

- PROPOSED SANITARY SEWER SERVICE MAY REQUIRE A GRINDER PUMP ON THE PROPERTIES INDICATED WITH A [GP]. THE GRINDER PUMP SHALL NOT BE THE CONTRACTOR'S RESPONSIBILITY AND IS RECOMMENDED TO BE INSTALLED BY THE PROPERTY OWNER.
- ON THE PROPERTIES INDICATED WITH A [RP], EXISTING CONDITIONS MAY ALLOW EXISTING PLUMBING TO BE REVERSED WITHIN CRAWL SPACE.

SURVEY NOTES:

- SURVEY PERFORMED BY: STEWART (N.C. FIRM LICENSE # C-1051), 910-796-0145 (OFFICE) 2018 EASTWOOD RD, SUITE 207 WILMINGTON, NORTH CAROLINA 28403
- ALL DISTANCES ARE HORIZONTAL GROUND DISTANCES IN U.S. SURVEY FEET UNLESS OTHERWISE NOTED. ALL COORDINATES ARE GROUND COORDINATES IN US SURVEY FEET UNLESS OTHERWISE NOTED.
- THE HORIZONTAL DATUM IS NC GRID (NAD83/2011) IN U.S. SURVEY FEET. THIS PROJECT WAS GROUND LOCALIZED ABOUT NCGS MONUMENT "HIGH SCHOOL" WITH A COMBINED FACTOR OF 0.99987427.
- THE VERTICAL DATUM IS (NAVD88) IN U.S. SURVEY FEET. THE CONTOUR INTERVAL SHOWN IS ONE FOOT.
- THIS SURVEY IS NOT INTENDED TO BE A BOUNDARY SURVEY OF THE PROPERTY SHOWN HEREON. ANY CALCULATED PROPERTY LINES SHOWN HEREON WERE DRAWN FROM FIELD LOCATED BOUNDARY EVIDENCE AND/OR RECORDED DEEDS AND MAPS AS NOTED HEREON.
CALCULATED RIGHT-OF-WAY & PROPERTY LINES _____
CALCULATED CENTERLINE OF ROADS _____
CALCULATED EASEMENT LINES _____
- SPLIT-LEVEL DWELLINGS APPEAR TO HAVE A LOWER LEVEL FINISH FLOOR THAT IS ONLY ACCESSIBLE FROM INSIDE THE DWELLING. ACCESS TO SURVEY INTERIOR FLOORS WAS NOT ACCESSIBLE OR PROVIDED. IN THESE CASES, NO FINISH FLOOR ELEVATIONS WERE OBTAINED FOR THE INACCESSIBLE LEVELS. THE LOWEST ACCESSIBLE GROUND ELEVATION WAS OBTAINED AT THE DWELLING FOR ENGINEERING PURPOSES.
- THIS MAP WAS PREPARED WITHOUT THE BENEFIT OF A CERTIFIED TITLE REPORT AND THEREFORE THE PROPERTY SHOWN HEREON MAY BE SUBJECT TO RECORDED OR UNRECORDED RIGHT-OF-WAYS, EASEMENTS, RESTRICTIONS OF RECORD, OR OTHER ENCUMBRANCES NOT OBSERVED OR SHOWN HEREON.
- THE UNDERGROUND UTILITIES SHOWN HEREON ARE APPROXIMATE LOCATIONS AND ARE BASED ON ABOVE GROUND FEATURES, PHYSICAL EVIDENCE, PAINT MARKINGS PROVIDED BY OTHERS, AND UTILITY PLANS. THE SURVEYOR DOES NOT GUARANTEE THAT ALL EXISTING UNDERGROUND STRUCTURES SUCH AS UTILITIES, TANKS, PIPES, ETC. ARE LOCATED HEREON, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED. NO EXCAVATIONS WERE MADE BY THE SURVEYOR TO LOCATE ANY BURIED UTILITIES OR STRUCTURES UNLESS OTHERWISE NOTED WITH THE EXCEPTION OF SUE LOCATIONS AS DEFINED IN ITEM 11.
- REFERENCE GENERAL UTILITY NOTE 1. CONTACT NC 811 REGARDING UNDERGROUND UTILITIES PRIOR TO ANY EXCAVATION OR CONSTRUCTION.
- NO DETERMINATION HAS BEEN MADE BY THE SURVEYOR AS TO THE FOLLOWING: FLOOD ZONES; UNDERGROUND STORAGE FACILITIES; GRAVES, CEMETERIES, OR BURIAL GROUNDS; HAZARDOUS WASTE DEPOSITS OR MATERIALS.
- SUE-BORE LOCATIONS SHOWN HEREON WERE FIELD MARKED BY JGH II INC. AND SURVEYED BY WK DICKSON ON JANUARY, 2020. ELEVATIONS SHOWN ARE CALCULATED RESULTS FROM DATA PROVIDED BY JGH II INC.
- DATE OF FIELD SURVEY: JUNE 2019 - DECEMBER 2020
- WK DICKSON PROJECT # 2019012600.RA
- WK DICKSON FILE NAME: 2019012600_V_XREF_BASE.DWG

CONTROL POINT TABLE - SECTION B
GROUND COORDINATES

NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
2	1,980,864.07'	472,861.52'	220.98'	PKST
3	1,980,722.46'	472,589.92'	230.92'	PKST
4	1,980,000.73'	472,418.78'	232.02'	PKST
5	1,979,856.63'	472,641.84'	235.28'	PKST
6	1,980,621.85'	471,799.74'	239.31'	PKST
9	1,979,700.71'	472,882.82'	240.74'	PKST
10	1,979,515.27'	473,037.73'	244.07'	PKST
11	1,979,409.25'	472,879.93'	237.00'	PKST
12	1,979,292.05'	473,141.96'	238.90'	PKST
13	1,979,110.28'	473,227.11'	234.94'	PKST
15	1,978,860.10'	473,338.15'	238.98'	PKST
16	1,978,679.38'	473,407.23'	243.40'	PKST
17	1,978,609.93'	473,161.60'	245.96'	PKST
18	1,978,558.70'	472,931.39'	243.15'	PKST
19	1,978,923.26'	472,834.72'	240.44'	PKST
20	1,978,501.65'	472,687.20'	241.90'	PKST
21	1,978,622.52'	472,486.54'	241.63'	PKST
22	1,978,970.77'	472,448.46'	236.64'	PKST
23	1,979,234.56'	472,366.02'	240.34'	PKST
24	1,979,139.75'	472,116.51'	233.09'	PKST
25	1,979,511.99'	472,339.38'	235.57'	PKST
26	1,979,767.80'	472,271.85'	229.98'	PKST
45	1,980,121.45'	471,853.37'	228.66'	PKST
46	1,979,916.50'	471,903.40'	222.71'	PKST
47	1,979,687.04'	471,975.92'	225.09'	PKST
48	1,979,383.17'	472,018.50'	230.41'	PKST
72	1,981,404.70'	472,949.03'	216.09'	PKST
73	1,981,723.55'	472,756.66'	213.13'	PKST

CONTROL POINT TABLE - SECTION C
GROUND COORDINATES

NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
6	1,980,621.85'	471,799.74'	239.31'	PKST
7	1,980,672.57'	471,466.26'	239.51'	PKST
8	1,980,719.61'	471,142.46'	237.47'	PKST
9	1,980,455.53'	471,384.28'	235.52'	PKST
10	1,980,195.95'	471,365.00'	228.05'	PKST
11	1,979,958.51'	471,484.64'	225.02'	PKST
12	1,980,066.74'	471,104.00'	218.07'	PKST
13	1,979,819.16'	471,121.44'	226.67'	PKST
14	1,980,095.19'	470,808.92'	213.02'	PKST
15	1,979,936.73'	470,758.56'	215.83'	PKST
16	1,980,241.04'	470,585.04'	217.08'	PKST
17	1,980,381.36'	470,430.42'	217.15'	PKST
18	1,980,563.73'	470,351.88'	222.32'	PKST
19	1,980,579.83'	470,679.83'	231.57'	PKST
20	1,980,506.73'	470,997.50'	235.29'	PKST
23	1,979,697.60'	470,940.91'	223.15'	PKST
44	1,980,402.36'	471,797.28'	238.58'	PKST



PROPOSED PLAN & PROFILE SHEET INDEX
SCALE: 1" = 300'
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PROJECT CONTROL POINT IS:
NC GEODETIC MONUMENT "ACACIA"
PUBLISHED NC GRID COORDINATES
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E 1,984,258.91
COMBINED FACTOR 0.99987461
ELEVATION 221.16 (NAVD 1988)

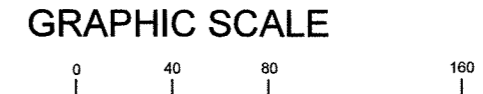
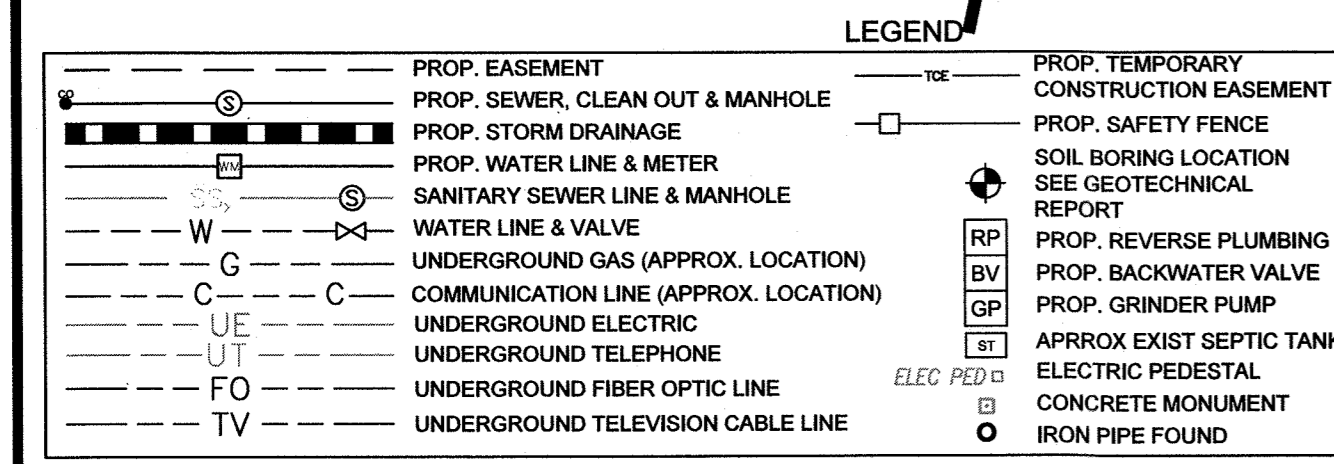
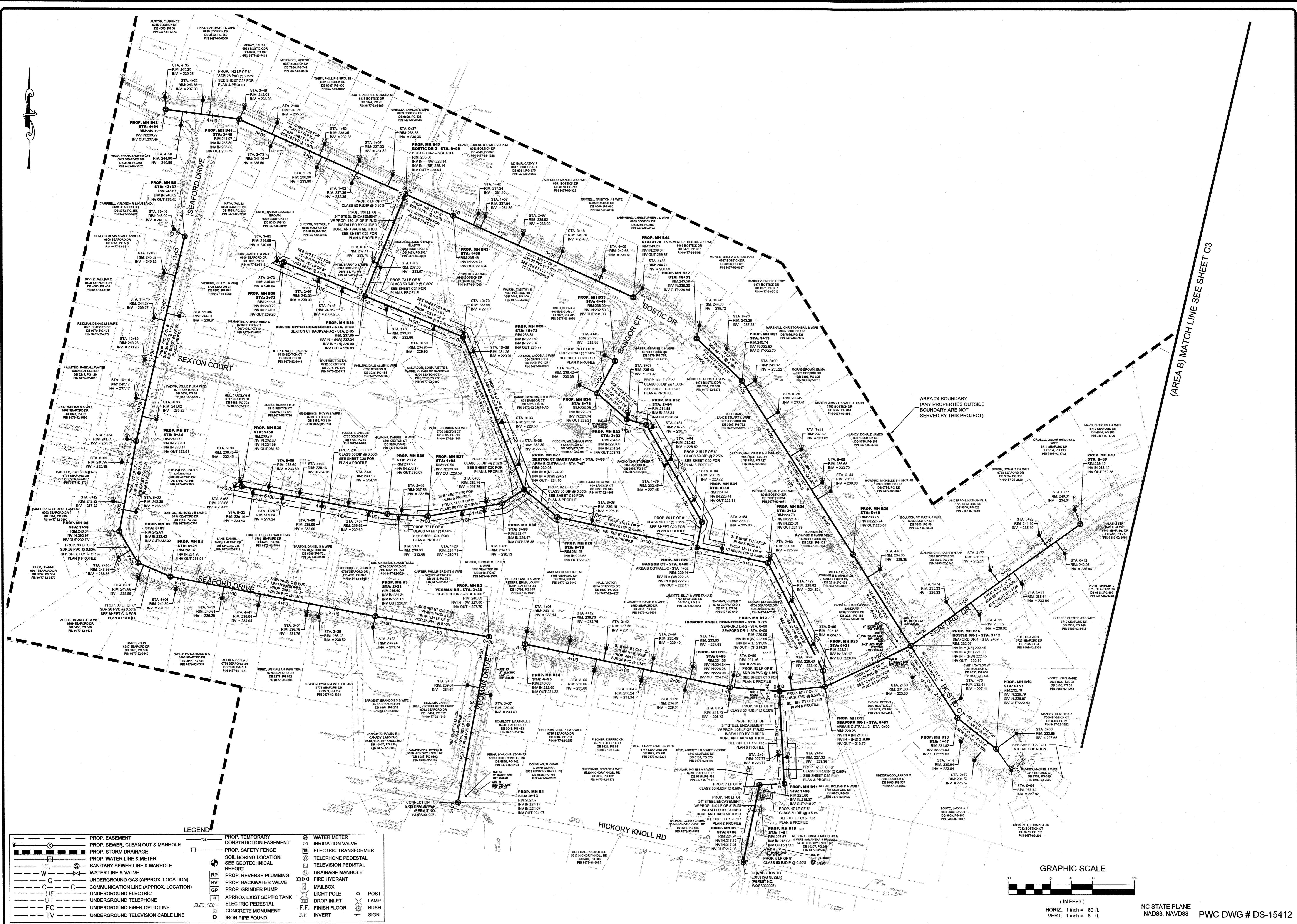
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CHECKED BY: TCH	
HOR. UNIT: N/A	
SCALE: VERT: 1"=1/4"	

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PROFESSIONAL SEAL
024984
T. WILSON
REGISTERED PROFESSIONAL ENGINEER
NORTH CAROLINA

GENERAL NOTES & SHEET INDEX
ANNEXATION PHASE V, AREA 24, SECTIONS B & C
FAYETTEVILLE, NORTH CAROLINA

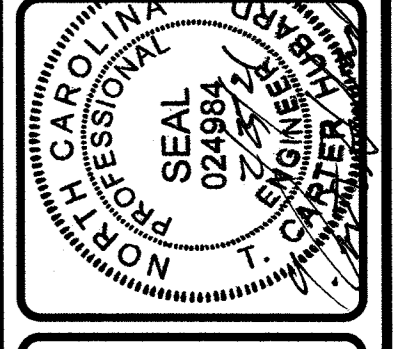
FAYETTEVILLE PUBLIC WORKS COMMISSION WATER RESOURCES ENGINEERING
20190126.00.RA



NC STATE PLANE
NAD83, NAVD88
PWC DWG # DS-15412

DATE	2/5/2021
REVISIONS	

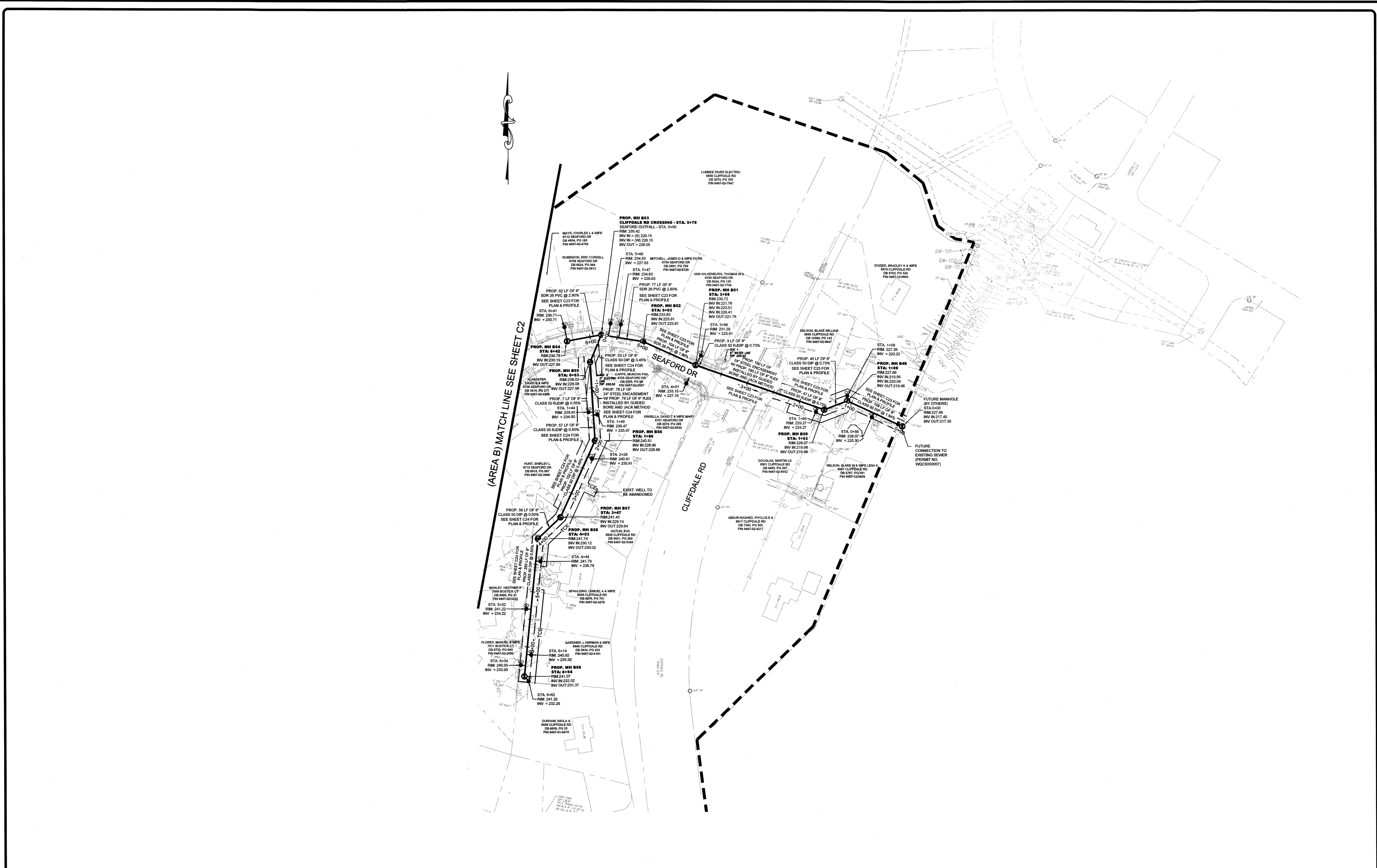
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CHECKED BY: TCH
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VERT: 1"=16'



OVERALL SEWER LAYOUT AREA B
ANNEXATION PHASE V, AREA 24, SECTIONS B & C
FAYETTEVILLE, NORTH CAROLINA

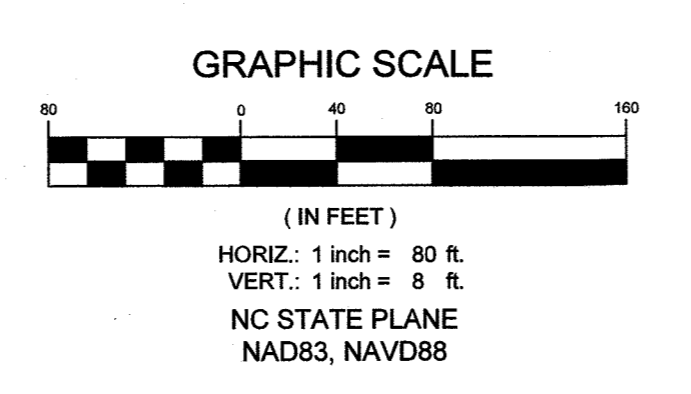
PWC
FAYETTEVILLE
PUBLIC WORKS COMMISSION
WATER RESOURCES ENGINEERING
P.O. Box 1088, Fayetteville, NC 28402
655 04 Whittington Road, Fayetteville, NC 28401

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LEGEND

	PROP. EASEMENT		PROP. TEMPORARY CONSTRUCTION EASEMENT		WATER METER
	PROP. SEWER, CLEAN OUT & MANHOLE		PROP. SAFETY FENCE		IRRIGATION VALVE
	PROP. STORM DRAINAGE		SOIL BORING LOCATION		ELECTRIC TRANSFORMER
	PROP. WATER LINE & METER		SEE GEOTECHNICAL REPORT		TELEPHONE PEDESTAL
	SANITARY SEWER LINE & MANHOLE		PROP. REVERSE PLUMBING		TELEVISION PEDESTAL
	WATER LINE & VALVE		PROP. BACKWATER VALVE		DRAINAGE MANHOLE
	UNDERGROUND GAS (APPROX. LOCATION)		PROP. GRINDER PUMP		FIRE HYDRANT
	COMMUNICATION LINE (APPROX. LOCATION)		APPROX EXIST SEPTIC TANK		MAILBOX
	UNDERGROUND ELECTRIC		ELECTRIC PEDESTAL		LIGHT POLE
	UNDERGROUND TELEPHONE		CONCRETE MONUMENT		DROP INLET
	UNDERGROUND FIBER OPTIC LINE		IRON PIPE FOUND		POST
	UNDERGROUND TELEVISION CABLE LINE				LAMP
					BUSH
					SIGN



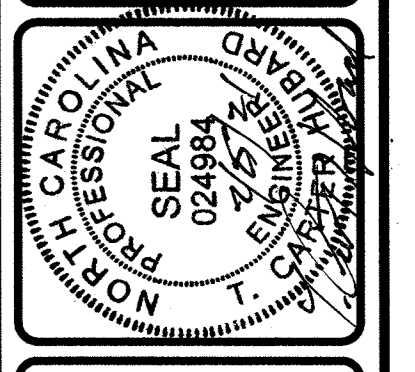
(AREA B) MATCH LINE SEE SHEET C2

BY	
DATE	
REVISIONS	

DATE: 2/5/2021
 SURVEYED BY: STEWART
 DRAWN BY: AMH/DK
 CHECKED BY: TCH
 SCALE: HOR: 1"=80'
 VERT: 1"=8'

WPC CON
 TRANSPORTATION & WATER INFRASTRUCTURE
 COMMUNITY DEVELOPMENT & CONSTRUCTION
 280 Corporate Center Drive
 Raleigh, North Carolina 27607
 (919) 782-3872
 www.wpccon.com

SHEET # 03



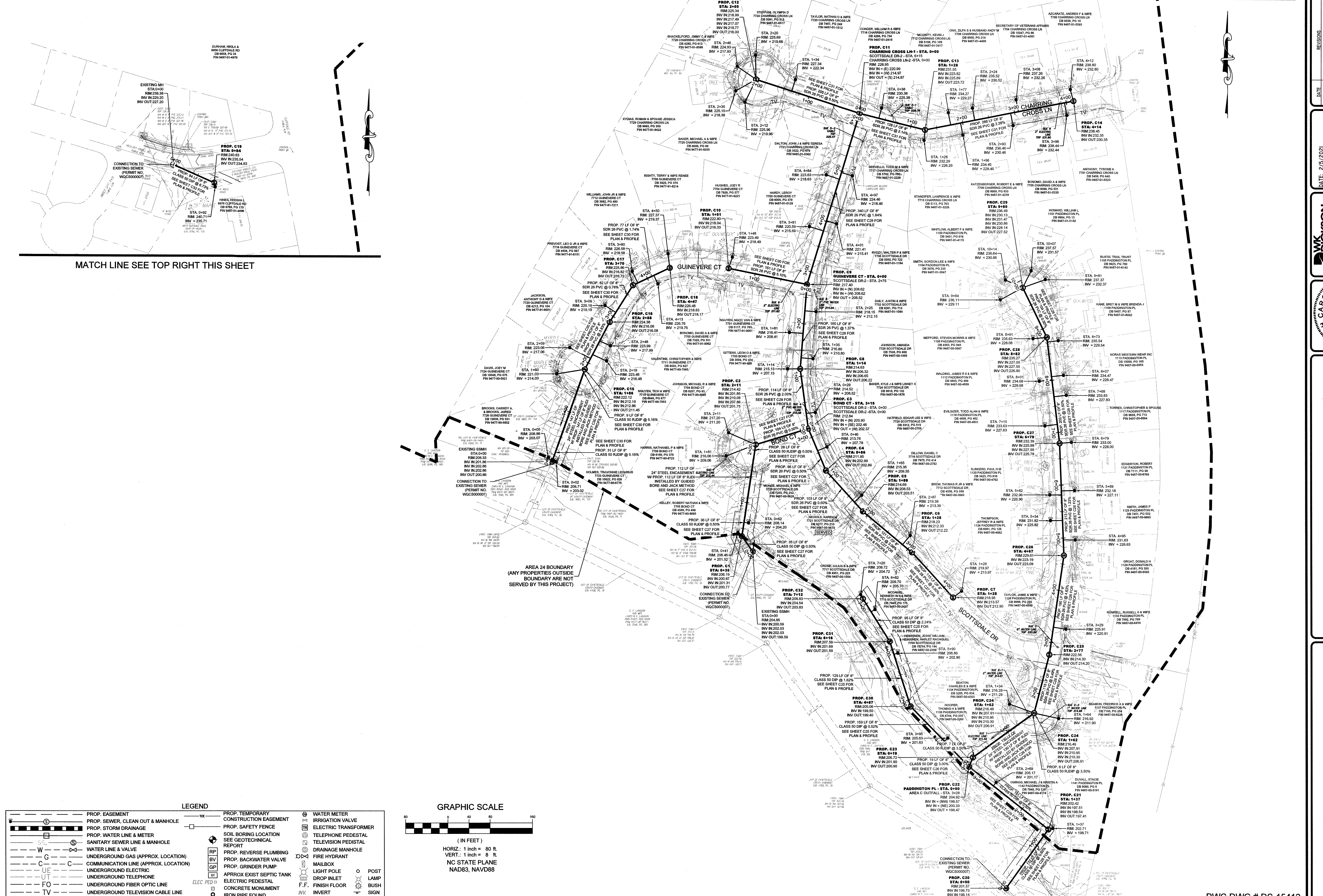
OVERALL SEWER LAYOUT AREA B (2)
 ANNEXATION PHASE V, AREA 24, SECTIONS B & C
 FAYETTEVILLE, NORTH CAROLINA

FAYETTEVILLE PUBLIC WORKS COMMISSION
WATER RESOURCES ENGINEERING
 A Division of WRC Enterprises
 P.O. Box 6085, Fayetteville, NC 28302
 855 Old Wilmington Road, Fayetteville, NC 28301

PWC DWG # DS-15412
 20190126.00.RA

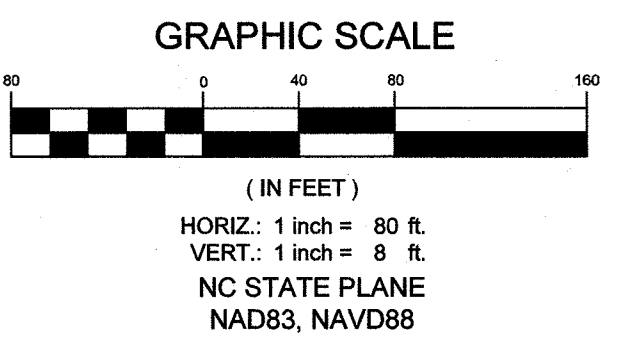
MATCH LINE SEE TOP LEFT THIS SHEET

MATCH LINE SEE TOP RIGHT THIS SHEET



LEGEND

	PROP. EASEMENT		PROP. TEMPORARY CONSTRUCTION EASEMENT		WATER METER
	PROP. SEWER, CLEAN OUT & MANHOLE		PROP. SAFETY FENCE		IRRIGATION VALVE
	PROP. STORM DRAINAGE		SOIL BORING LOCATION		ELECTRIC TRANSFORMER
	PROP. WATER LINE & METER		SEE GEOTECHNICAL REPORT		TELEPHONE PEDESTAL
	SANITARY SEWER LINE & MANHOLE		PROP. REVERSE PLUMBING		DRAINAGE MANHOLE
	WATER LINE & VALVE		PROP. BACKWATER VALVE		FIRE HYDRANT
	UNDERGROUND GAS (APPROX. LOCATION)		PROP. GRINDER PUMP		MAILBOX
	COMMUNICATION LINE (APPROX. LOCATION)		APPROX. EXIST SEPTIC TANK		LIGHT POLE
	UNDERGROUND ELECTRIC		ELECTRIC PEDESTAL		DROP INLET
	UNDERGROUND TELEPHONE		CONCRETE MONUMENT		POST
	UNDERGROUND FIBER OPTIC LINE		IRON PIPE FOUND		LAMP
	UNDERGROUND TELEVISION CABLE LINE				BUSH
					SIGN

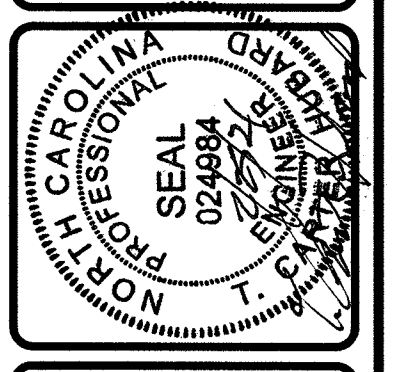


REVISIONS

NO.	DATE	DESCRIPTION

DATE: 2/5/2021
 DRAWN BY: AMH/DK
 CHECKED BY: TCH
 SCALE: HOR: 1" = 80'
 VERT: 1" = 8'

PREPARED BY: STEWART
 PROJECT: ANNEXATION PHASE V, AREA 24, SECTIONS B & C
 SHEET # 17 OF 17



OVERALL SEWER LAYOUT AREA C
 ANNEXATION PHASE V, AREA 24, SECTIONS B & C
 FAYETTEVILLE, NORTH CAROLINA

PWC
 PUBLIC WORKS COMMISSION
 WATER RESOURCES ENGINEERING
 P.A. Box 1085, Fayetteville, NC 28302
 855 Old Wilmington Road, Fayetteville, NC 28401

PWC DWG # DS-15412

20190126.00.RA

GENERAL EROSION AND SEDIMENT CONTROL NOTES:

- 1. UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE MINIMUM STANDARDS AND SPECIFICATIONS OF THE NORTH CAROLINA EROSION AND SEDIMENTATION CONTROL HANDBOOK...
2. THE CONTRACTOR SHALL NOTIFY PLAN APPROVING AUTHORITY ONE WEEK PRIOR TO THE PRE-CONSTRUCTION CONFERENCE...
3. ALL EROSION AND SEDIMENTATION CONTROL MEASURES ARE TO BE PLACED PRIOR TO CLEARING AND/OR LAND DISTURBANCE...
4. A COPY OF THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN AND PERMIT SHALL BE MAINTAINED ON THE SITE AT ALL TIMES...
5. PRIOR TO COMMENCING LAND DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THE PLANS...
6. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES...
7. ALL DISTURBED AREAS ARE TO BE DRAINED TO APPROVED SEDIMENT CONTROL MEASURES...
8. ALL AREAS AFFECTED BY CONSTRUCTION UNLESS OTHERWISE IMPROVED SHALL BE SOODED OR RESEED AS INDICATED AND STABILIZED...
9. DURING DE-WATERING OPERATIONS, WATER SHALL BE PUMPED INTO AN APPROVED FILTERING DEVICE...
10. THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES PERIODICALLY...
11. ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED BY CONTRACTOR ONCE STABILIZATION OR A SUFFICIENT GROUND COVER HAS BEEN ESTABLISHED...
12. TEMPORARY GRAVEL CONSTRUCTION ENTRANCE SHALL BE REQUIRED AT ALL CONSTRUCTION STAGING AREA ENTRANCES...
13. WHEN CROSSING CREEK OR DRAINAGE-WAY, THE CONTRACTOR SHALL INSTALL RIP-RAP WITH FABRIC ON DISTURBED BANKS AND CHANNEL AND RESTORE SLOPES TO ORIGINAL CONTOURS...
14. LIMITS OF CONSTRUCTION ARE THE CITY OF FAYETTEVILLE/NCDDOT STREET RIGHT OF WAYS AND EASEMENTS AS SHOWN ON PLANS...
15. THE CONSTRUCTION DISTURBED AREA SHALL NOT EXCEED 16.71 ACRES.

PLANNED SEDIMENTATION AND EROSION CONTROL PRACTICES

THE FOLLOWING EROSION CONTROL ITEMS WILL BE CONSTRUCTED AS SHOWN ON THE ATTACHED EROSION CONTROL DETAILS AND PLAN:

- 6.06 TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT: TO PROVIDE A BUFFER AREA WHERE VEHICLES CAN DROP THEIR MUD AND SEDIMENT...
6.10 TEMPORARY SEEDING: TO BE INSTALLED AS PER SEEDING SPECIFICATIONS.
6.11 PERMANENT SEEDING: TO BE INSTALLED AS PER SEEDING SPECIFICATIONS.
6.12 SOODING: TO PREVENT EROSION AND DAMAGE FROM SEDIMENT AND RUNOFF BY STABILIZING THE SOIL SURFACE WITH PERMANENT VEGETATION.
6.14 MULCHING: TO PROTECT THE SOIL SURFACE FROM THE FORCES OF RAINFALL IMPACT AND OVERLAND FLOW...
6.15 RIPRAP: TO PROTECT THE SOIL SURFACE FROM EROSION FORCES AND/OR IMPROVE STABILITY OF SOIL SLOPES THAT ARE SUBJECT TO SEEDING STRUCTURE.
6.41 OUTLET STABILIZATION STRUCTURE: TO BE INSTALLED AS A PERMANENT STABILIZATION MEASURE AT THE OUTLET OF A CHANNEL...
6.65 ROCK PILE INLET PROTECTION: SIMILAR TO BLOCK AND GRAVEL INLET PROTECTION...
6.62 TEMPORARY SILT FENCE & SUPER SILT FENCE: WILL RETAIN SEDIMENT FROM SMALL DISTURBED AREAS...
6.66 COMPOST SOCK: INSTALLED TO REDUCE THE VELOCITY OF SHEET FLOW.

TO BE REPLACED WITH A LARGER DIAMETER OR A DIFFERENT MEASURE, THE SOCK NEEDS TO BE REINSTALLED IF UNDERMINED OR DISLODGED, THE COMPOST SOCK SHALL BE INSPECTED UNTIL LAND DISTURBANCE IS COMPLETE AND THE AREA ABOVE THE MEASURE HAS BEEN PERMANENTLY STABILIZED.

6.70 TEMPORARY STREAM CROSSING: WILL BE INSTALLED TO DIVERT WATER AROUND WORK AREAS...
MAINTENANCE: INSPECT TEMPORARY STREAM CROSSINGS AFTER RUNOFF-PRODUCING RAINS TO CHECK FOR BLOCKAGE...

6.83 CHECK DAM: WILL BE INSTALLED TO REDUCE EROSION BY REDUCING THE VELOCITY OF THE FLOW...
MAINTENANCE: INSPECT CHECK DAMS AND CHANNELS AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT RAINFALL EVENT...

REMOVE SEDIMENT ACCUMULATED BEHIND THE DAMS AS NEEDED TO PREVENT DAMAGE TO CHANNEL VEGETATION...
SILT BAG CURB INLET FILTER: WILL BE INSTALLED AROUND CURB INLETS...

MAINTENANCE: INSPECT THE BARRIER WEEKLY AND AFTER EACH SIGNIFICANT RAINFALL EVENT...
SILT SACK: WILL BE INSTALLED WITHIN CURB INLETS, EITHER EXISTING OR PROPOSED...

MAINTENANCE: INSPECT THE BARRIER WEEKLY AND AFTER EACH SIGNIFICANT RAINFALL EVENT...
WATERING OF SEEDED AREAS WILL BE REQUIRED DURING PERIODS OF DRY WEATHER TO PROMOTE MAXIMUM GROWTH...

CONSTRUCTION SEQUENCE:

- 1. OBTAIN ALL PERMITS AND PLAN APPROVALS.
2. ATTEND PRECONSTRUCTION MEETINGS.
3. INSTALL GRAVEL CONSTRUCTION ENTRANCES, SILT FENCING, TREE PROTECTION, CHECK DAMS, AND TEMPORARY INLET PROTECTION.
4. INSTALL TEMPORARY INLET PROTECTION DEVICES AT ALL DRIVEWAY CULVERTS.
5. CLEAR AND GRUB PERMANENT EASEMENTS AND ONLY THOSE PORTIONS OF THE TEMPORARY EASEMENTS NECESSARY FOR CONSTRUCTION.
6. INSTALL SEWER MAINS IMPROVEMENTS IN EASEMENTS...
7. INSPECT ALL EROSION AND SEDIMENT CONTROL DEVICES BI-WEEKLY OR AFTER EVERY RAINFALL EVENT.
8. REMOVE ASPHALT IN STREETS ALONG SEWER MAINS BY MILLING WITH ZIPPER TYPE EQUIPMENT...
9. PLACE ABC STONE AS CONSTRUCTION PROGRESSES TO PAVEMENT SURFACE.
10. INSTALL SEWER LATERALS, PLACE ABC STONE AS CONSTRUCTION PROGRESSES TO SURFACE OF THE ASPHALT.
11. TEST AND INSPECT SEWER MAIN AND LATERALS.
12. PATCH ALL PAVED SURFACES DISTURBED BY CONSTRUCTION ACTIVITIES WITH TEMPORARY ASPHALT PATCH.
13. SEED AND MULCH OR SOD ALL DISTURBED AREAS NOT OTHERWISE IMPROVED AND ESTABLISH PERMANENT GROUND COVER AS INDICATED.
14. PRELIMINARY FINAL INSPECTION BY CONTRACTOR.
15. PRELIMINARY FINAL INSPECTION BY OWNER AND CONTRACTOR (PUNCH LIST).
16. CONTRACTOR SHALL OVERLAY ALL STREETS DISTURBED BY CONSTRUCTION ACTIVITIES.
17. FINAL INSPECTION.
18. REMOVE TEMPORARY MEASURES.
19. CLOSE OUT PROJECT.

SEEDING SCHEDULE

TO BE IN ACCORDANCE WITH FPWC SPECIFICATIONS:

SEED SHALL BE SEED CERTIFIED TO BE THE LATEST SEASON'S CROP AND SHALL BE DELIVERED IN ORIGINAL SEALED PACKAGES BEARING THE PRODUCER'S GUARANTEED ANALYSIS FOR PERCENTAGES OF MIXTURES AND PURE LIVE SEED...
THE FOLLOWING SEED MIXTURE SHALL BE USED:

Table with columns: DATE, TYPE, PLANTING RATE. Rows include: APRIL 15 - SEPT 1, GERMAN MILLET, 100 LBS/ACRE; AUG. 15 - NOV. 15, GRAIN RYE, 120 LBS/ACRE; NOV. 1 - APRIL 1, GRAIN RYE, 120 LBS/ACRE.

Table with columns: DATE, TYPE, PLANTING RATE. Rows include: APRIL 15 - SEPT. 1, K-31 FESCUE, 75 LBS/ACRE; AUG. 15 - NOV. 15, K-31 FESCUE, 120 LBS/ACRE; NOV. 1 - APRIL 1, K-31 FESCUE, 120 LBS/ACRE.

WETLAND SEED MIXTURE (TEMPORARY AND PERMANENT)

Table with columns: DATE, TYPE, PLANTING RATE. Rows include: APRIL 1 - JULY 15, SWITCHGRASS, 8 PLS # / ACRE OR 4 OZ. / 1000 S.F.; SMARTWEED, 2 BULK # / ACRE OR 1 OZ. / 1000 S.F.

Table with columns: DATE, TYPE, PLANTING RATE. Rows include: APRIL 15 - SEPT. 1, JAPANESE MILLET OR SORGHUM SUDAN GRASS HYBRIDS, 20 - 18 / ACRE OR 12 LBS / 1000 S.F.; JULY 16 - SEPT. 1, TEMPORARY CROP OF JAPANESE MILLET OR SORGHUM SUDAN GRASS HYBRIDS, 20 - 18 / ACRE OR 12 LBS / 1000 S.F.

Table with columns: DATE, TYPE, PLANTING RATE. Row: SEPT. 2 - NOV. 1, REED CANARY GRASS, 12 BULK # / ACRE OR

Table with columns: SMARTWEED, 6 OZ. / 1000 S.F.; 2 BULK # / ACRE OR 1 OZ. / 1000 S.F.; NOV. 2 - MARCH 31, TEMPORARY CROP OF PLY TO BE FOLLOWED BY PERMANENT MIXTURE, 40 LBS / ACRE.

- NOTES:
1. WHERE CONSTRUCTION CROSSES A PASTURE THAT HAS BEEN GRASSED, THE CONTRACTOR SHALL RE-SEED THE AREA WITH THE SAME TYPE OF GRASS AS FOUND ON THE SITE...
2. CONSULT THE REGIONAL STATE EROSION CONTROL OFFICER FOR ADDITIONAL INFORMATION CONCERNING OTHER ALTERNATIVES FOR VEGETATION OF DENuded AREAS...
SOIL AMENDMENTS: LIME SHALL BE APPLIED AT THE RATE OF 12 TONS PER ACRE...
MULCH: ALL SEEDED AREAS WILL BE MULCHED WITH TWO (2) TONS PER ACRE OF SMALL GRAIN STRAW...

MAINTENANCE: THE CONTRACTOR SHALL PROTECT AND MAINTAIN GRASSED AREAS AS NECESSARY TO ESTABLISH A UNIFORM TURF COMPOSED OF THE GRASSES SPECIFIED...
WATERING OF SEEDED AREAS WILL BE REQUIRED DURING PERIODS OF DRY WEATHER TO PROMOTE MAXIMUM GROWTH...

MAINTENANCE: THE CONTRACTOR SHALL SUPPLEMENT NATURAL RAINFALL TO INSURE A MINIMUM OF ONE (1) INCH OF RAINFALL WEEKLY...
MAINTENANCE OF LAWNS BEGINS IMMEDIATELY AFTER THE AREA IS PLANTED AND CONTINUES FOR THE PERIOD REQUIRED TO ESTABLISH ACCEPTABLE LAWNS...

CHANNEL STABILIZATION AND OUTLET PROTECTION:
1. UPON COMPLETION OF REACHING FINAL PREPARED SUB GRADE FOR AREAS (SLOPES, CHANNELS AND OUTLET PROTECTION) TO BE PROTECTED AS INDICATED ON DRAWINGS, INSTALL FILTER FABRIC...
2. GEOTEXTILE FABRICS, COIR MATTING OR SPECIAL MULCH PROTECTION, SUCH AS FIBERGLASS ROVING OR STRAW AND NETTING, SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS TO PROVIDE STABILITY UNTIL THE VEGETATION IS FULLY ESTABLISHED...

SEEDBED PREPARATION:
1. CHISEL COMPACTED AREAS AND SPREAD TOPSOIL 3 INCHES DEEP OVER ADVERSE SOIL CONDITIONS, IF AVAILABLE.
2. RIP THE ENTIRE AREA TO 6 INCHES DEPTH.
3. REMOVE ALL MOOSE ROCK, ROOTS, AND OTHER OBSTRUCTIONS LEAVING SURFACE REASONABLY SMOOTH AND UNIFORM.

MINIMUM REQUIREMENTS FOR SLOPE STABILIZATION:
MINIMUM REQUIREMENTS SLOPE:
STABILIZED WITH GRASS 3:1 AND FLATTER
STABILIZED WITH SHRUBS OR VINES 3:1 TO 2:1
STABILIZED WITH RIP-RAP 2:1 TO 1.5:1
STABILIZED WITH RETAINING WALL STEEPER THAN 1.5:1

SOD MATERIAL:
1. SOD SHALL CONTAIN 85 PERCENT PERMANENT GRASS; NOT MORE THAN 5 PERCENT WEEDS AND UNDESIRABLE GRASSES...
2. SOD SHALL BE UNIFORMLY 1 1/2 TO 2 INCHES THICK WITH A WELL DEVELOPED FIBROUS ROOT MAT SYSTEM IN TOPSOIL WITH CLEAN OUT EDGES.

SOIL BED PREPARATION:
1. THE AREA TO BE SOODED SHALL BE CLEANED AND DISPOSED OF BRUSH, RUBBISH, STONES, GRAVEL AND OTHER FOREIGN MATERIAL...
2. THE SOD BED SHALL BE EXCAVATED TO SUCH A DEPTH THAT AFTER SOD PLACEMENT THE TOP OF THE SOD SHALL BE FLUSH WITH SURROUNDING GRADE OR CONTOURS.

MAINTENANCE:
1. MAINTENANCE SHALL BEGIN IMMEDIATELY AFTER SODDING OPERATION AND INCLUDE WATERING, FERTILIZATION AND PEST CONTROL AND MOWING AS OUTLINED BELOW:
WATERING: WATER LAWN AREAS ONCE A DAY WITH A MINIMUM 1/4 INCH WATER FOR THE FIRST THREE (3) WEEKS...
FERTILIZER AND PEST CONTROL: EVENLY SPREAD FERTILIZER COMPOSITE AT A RATE OF 40 POUNDS PER 5,000 SQUARE FEET OR AS RECOMMENDED BY THE MANUFACTURER...

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- A YARD LIKE APPEARANCE. ALL CHANGES IN GRADE SHALL HAVE A SMOOTH, ROUNDED PEAKS AND VALLEYS.
6. THE SOIL SHALL BE SCARIFIED OR OTHERWISE LOOSENED TO A DEPTH OF NOT LESS THAN FIVE (5) INCHES AND ALL CLOSURES SHALL BE BROKEN...
7. COMMERCIAL GRADE FERTILIZER (8% NITROGEN, 8% PHOSPHATE, 8% POTASH) SHALL BE APPLIED AT A RATE OF 20 POUNDS PER 100 SQUARE FEET...
8. APPLY SOIL AMENDMENTS WITHIN 24 HOURS AFTER RAKING TOPSOIL...
9. SOD PLACEMENT SHALL NOT BEGIN UNTIL THE SOIL PREPARATION IS INSPECTED AND APPROVED BY THE PUBLIC WORKS COMMISSION.

SOD INSTALLATION:
1. SOD SHALL BE BROUGHT TO THE SITE AS NEAR TO THE TIME OF PLACING AS POSSIBLE BUT NO EARLIER THAN 24 HOURS FROM TOPSOIL BASE PREPARATION...
2. STORE SOD IN THE SHADE, AND KEEP WATERED PARTICULARLY IN EXTREME HOT AND DRY CONDITION TO MAINTAIN VITALITY...
3. DURING WET WEATHER, THE SOD SHALL BE ALLOWED TO DRY SUFFICIENTLY TO PREVENT TEARING.

4. CAREFULLY PLACE SOD IN ROWS WITH THE LONGER SIDE PERPENDICULAR TO SLOPES AND THE ENDS STAGGERED IN EACH SUCCESSIVE ROW...
5. AFTER THE SOD IS LAID, IRRIGATE THOROUGHLY TO ALLOW WATER TO PENETRATE A MINIMUM SIX (6) INCHES INTO THE SOIL BELOW THE SOD...
6. TAMP AND ROLL COMPLETED SOD INSTALLATION WITH A MANUAL ROLLER...

7. ON STEEP SLOPES 3:1 (HORIZONTAL AND VERTICAL) OR GREATER, IN DRAINAGE DITCHES OR ANY AREAS WHERE SOD SLIPPING MAY OCCUR...
8. SOD SHALL BE LAID WITH THE LONG HORIZONTAL EDGE OF THE STRIPS PARALLEL TO THE CONTOUR STARTING AT THE BOTTOM OF THE SLOPE...
9. UPON COMPLETION OF THE ABOVE DESCRIBED WORK, THE SURFACE OF THE SOODED AREAS SHALL COINCIDE WITH THE FINISHED GRADE AND NOT EXCEED 1/8" PLUS OR MINUS VARIATION TO ADJOINING GRADE OR PROPOSED CONTOUR.

MAINTENANCE:
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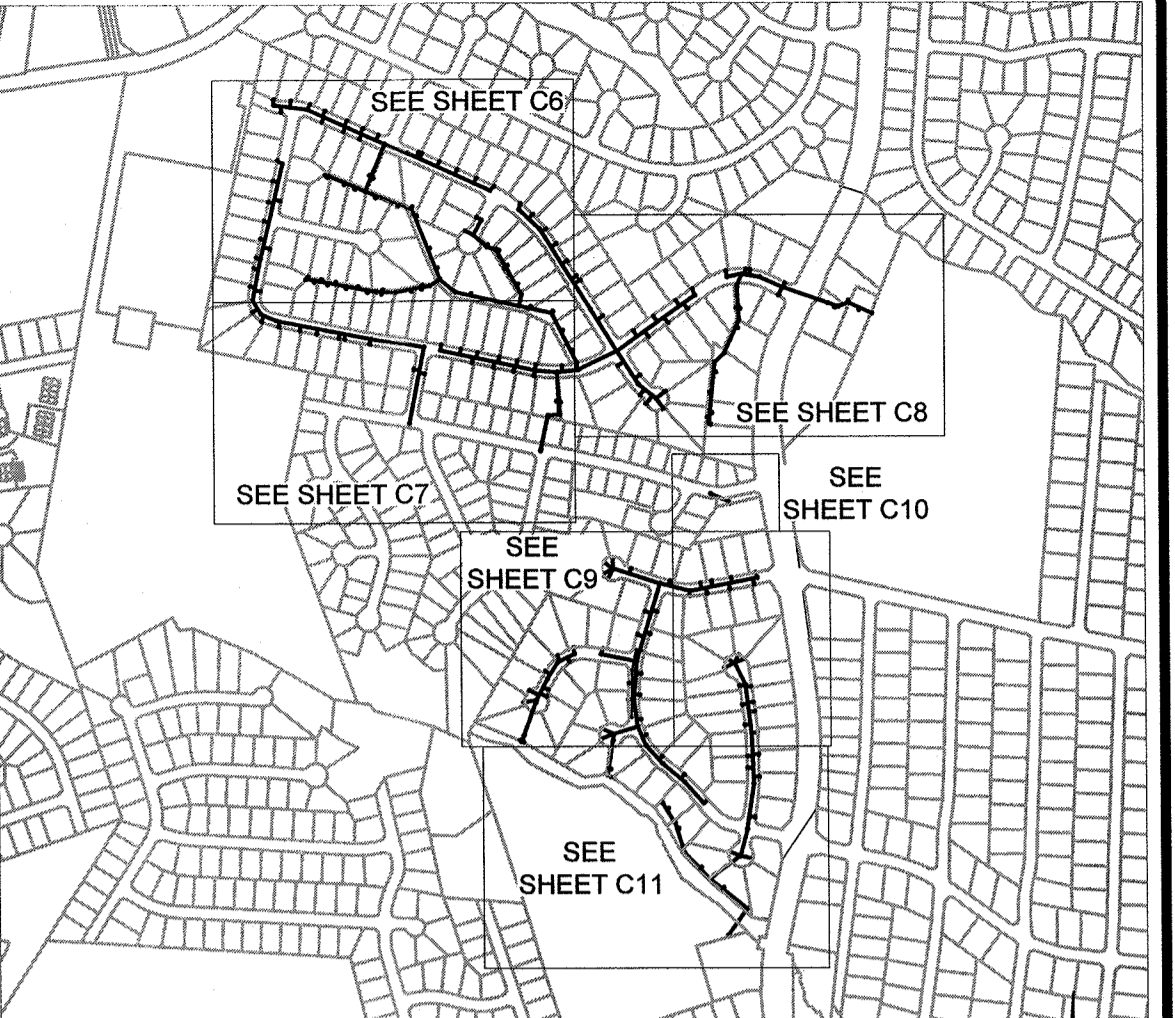
MAINTENANCE:
1. MAINTENANCE SHALL BEGIN IMMEDIATELY AFTER SODDING OPERATION AND INCLUDE WATERING, FERTILIZATION AND PEST CONTROL AND MOWING AS OUTLINED BELOW:
WATERING: WATER LAWN AREAS ONCE A DAY WITH A MINIMUM 1/4 INCH WATER FOR THE FIRST THREE (3) WEEKS...
FERTILIZER AND PEST CONTROL: EVENLY SPREAD FERTILIZER COMPOSITE AT A RATE OF 40 POUNDS PER 5,000 SQUARE FEET OR AS RECOMMENDED BY THE MANUFACTURER...

MAINTENANCE:
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WATERING: WATER LAWN AREAS ONCE A DAY WITH A MINIMUM 1/4 INCH WATER FOR THE FIRST THREE (3) WEEKS...
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WATERING: WATER LAWN AREAS ONCE A DAY WITH A MINIMUM 1/4 INCH WATER FOR THE FIRST THREE (3) WEEKS...
FERTILIZER AND PEST CONTROL: EVENLY SPREAD FERTILIZER COMPOSITE AT A RATE OF 40 POUNDS PER 5,000 SQUARE FEET OR AS RECOMMENDED BY THE MANUFACTURER...

MAINTENANCE:
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WATERING: WATER LAWN AREAS ONCE A DAY WITH A MINIMUM 1/4 INCH WATER FOR THE FIRST THREE (3) WEEKS...
FERTILIZER AND PEST CONTROL: EVENLY SPREAD FERTILIZER COMPOSITE AT A RATE OF 40 POUNDS PER 5,000 SQUARE FEET OR AS RECOMMENDED BY THE MANUFACTURER...



EROSION CONTROL PLAN SHEET INDEX SCALE: 1" = 800'

EROSION CONTROL CONTACT PERSON: MISTY MANNING 910-223-4736 MISTY.MANNING@FAYPWC.COM

Table with columns: DATE, REVISIONS, SURVEILORS BY: STEWART, DRAWN BY: ANHOK, CHECKED BY: TCH, SCALE: HOR: 1"=1/4" VER: 1"=1/4"

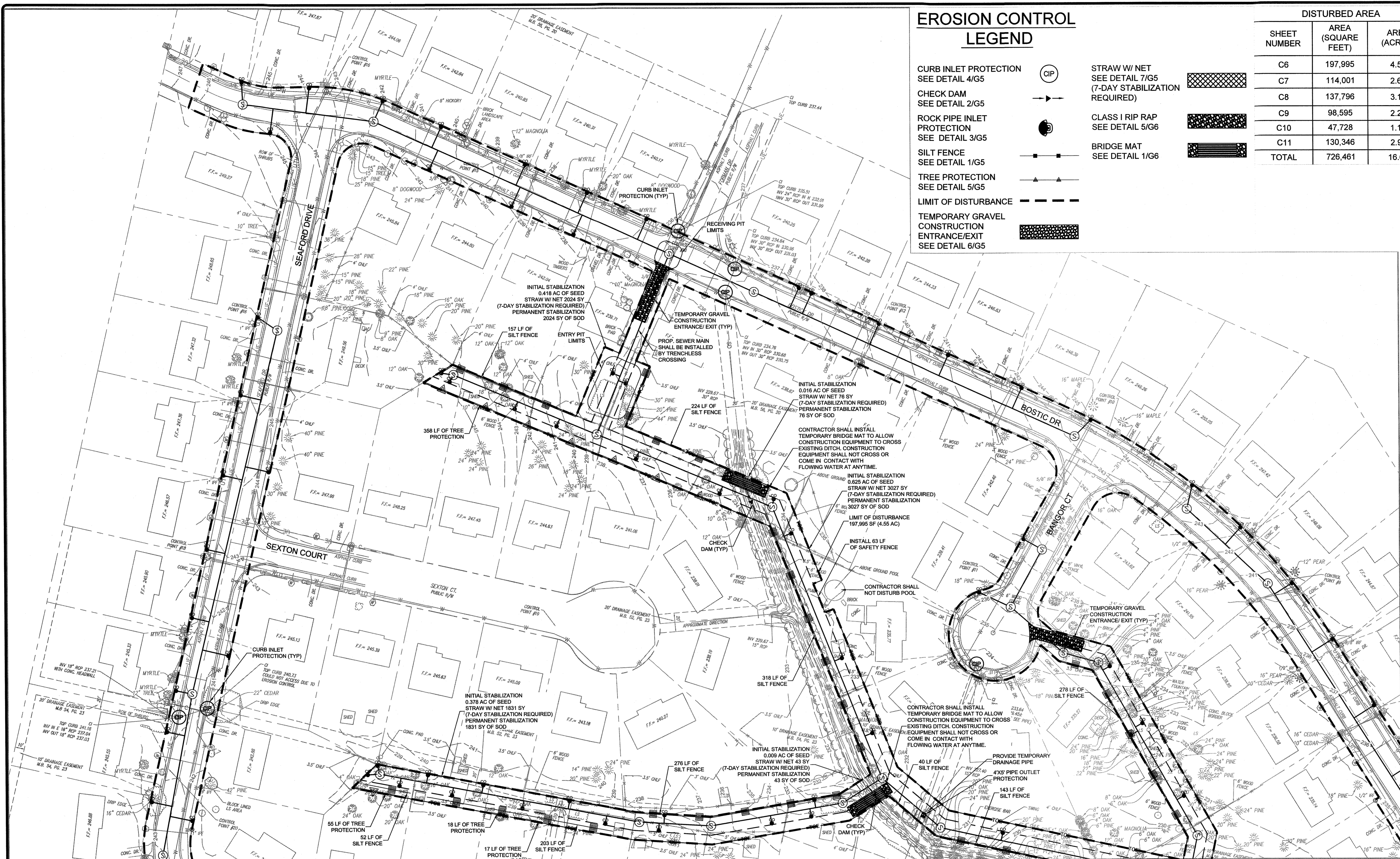
DATE: 2/12/2010 SURVEILORS BY: STEWART DRAWN BY: ANHOK CHECKED BY: TCH SCALE: HOR: 1"=1/4" VER: 1"=1/4"

DATE: 2/12/2010 SURVEILORS BY: STEWART DRAWN BY: ANHOK CHECKED BY: TCH SCALE: HOR: 1"=1/4" VER: 1"=1/4"

DATE: 2/12/2010 SURVEILORS BY: STEWART DRAWN BY: ANHOK CHECKED BY: TCH SCALE: HOR: 1"=1/4" VER: 1"=1/4"

EROSION CONTROL NOTES ANNEXATION PHASE V, AREA 24, SECTIONS B & C FAYETTEVILLE, NORTH CAROLINA

FAYETTEVILLE PUBLIC WORKS COMMISSION WATER RESOURCES ENGINEERING P.O. Box 1089 Fayetteville, NC 28401 985 Old Wilmington Road, Fayetteville, NC 28401

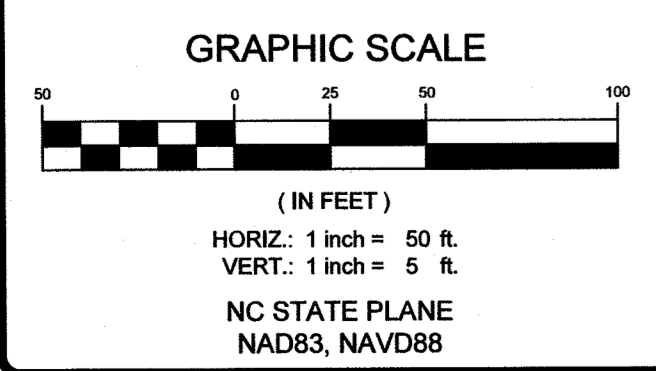


EROSION CONTROL LEGEND

- CURB INLET PROTECTION
SEE DETAIL 4/G5
- CHECK DAM
SEE DETAIL 2/G5
- ROCK PIPE INLET PROTECTION
SEE DETAIL 3/G5
- SILT FENCE
SEE DETAIL 1/G5
- TREE PROTECTION
SEE DETAIL 5/G5
- LIMIT OF DISTURBANCE
- TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT
SEE DETAIL 6/G5
- STRAW W/ NET
SEE DETAIL 7/G5
(7-DAY STABILIZATION REQUIRED)
- CLASS I RIP RAP
SEE DETAIL 5/G6
- BRIDGE MAT
SEE DETAIL 1/G6

DISTURBED AREA		
SHEET NUMBER	AREA (SQ. FEET)	AREA (ACRES)
C6	197,995	4.55
C7	114,001	2.62
C8	137,796	3.16
C9	98,595	2.26
C10	47,728	1.10
C11	130,346	2.99
TOTAL	726,461	16.68

- NOTES:**
- LAWNS DISTURBED BY CONSTRUCTION ACTIVITIES SHALL BE SODED TO PROVIDE IMMEDIATE PERMANENT STABILIZATION. ALL OTHER AREAS NOT INDICATED AS PAVEMENT, SOD OR OTHER RESTORATION TECHNIQUES SHALL BE SEEDED AND MULCHED.
 - WHERE INDIVIDUAL SEWER LATERALS ARE TO BE INSTALLED IN THE GRASS SHOULDER OF THE STREET RIGHT-OF-WAY, THOSE DISTURBED AREAS (APPROX. 6'X12') SHALL BE SEEDED AND MULCHED.
 - PROVIDE ROCK PIPE INLET PROTECTION FOR PROPOSED 18" RCP THAT IS TO BE INSTALLED FOR TEMPORARY ROADWAY AFTER REMOVAL OF TEMPORARY ROADWAY AND TEMPORARY DRAINAGE PIPE. RESTORE DITCH AND STABILIZE BANKS. PROVIDE ROCK INLET PROTECTION FOR EXISTING 18" DRAINAGE PIPE UNTIL DITCH IS STABILIZED.
 - ONCE CONSTRUCTION IS COMPLETE, CONTRACTOR SHALL REMOVE TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT AND RESTORE EXISTING GRADE BACK TO ORIGINAL CONDITIONS. THE LOD DOES NOT INCREASE.
 - CONTRACTOR SHALL NOT DISTURB MORE THAN CAN BE STABILIZED BY THE END OF THE WORK DAY.



MATCH LINE SEE SHEET C8

MATCH LINE SEE SHEET C7

BY:				
REVISIONS:				
DATE:				

SURVEYED BY: STEWART	
DRAWN BY: ANH/DK	
CHECKED BY: TCH	
SCALE: HOR: 1"=50	
VERT: 1"=5	

720 Corporate Center Drive
 Raleigh, North Carolina 27607
 (919) 750-0872
 www.dickson.com

PROFESSIONAL SEAL
 NORTH CAROLINA
 ENGINEER

EROSION CONTROL AREA B1
 ANNEXATION PHASE V, AREA 24, SECTIONS B & C
 FAYETTEVILLE, NORTH CAROLINA

PWC
 Fayetteville
 PUBLIC WORKS COMMISSION
 WATER RESOURCES ENGINEERING
 3310 Bar 100N, Fayetteville, NC 28403
 855 904 Wilmington Road, Fayetteville, NC 28401

MATCH LINE SEE SHEET C6

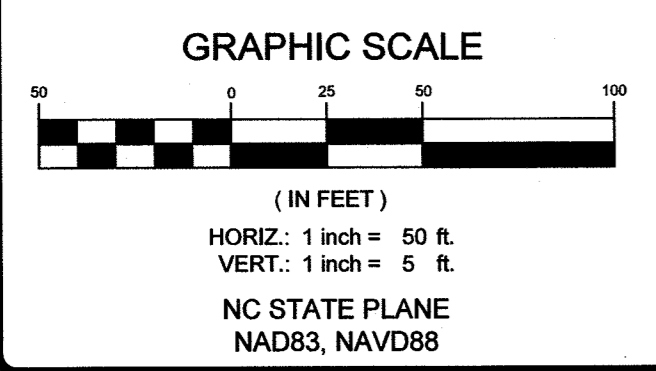


EROSION CONTROL LEGEND

- CURB INLET PROTECTION
SEE DETAIL 4/G5
- CHECK DAM
SEE DETAIL 2/G5
- ROCK PIPE INLET PROTECTION
SEE DETAIL 3/G5
- SILT FENCE
SEE DETAIL 1/G5
- TREE PROTECTION
SEE DETAIL 5/G5
- LIMIT OF DISTURBANCE
- TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT
SEE DETAIL 6/G5
- STRAW W/ NET (7-DAY STABILIZATION REQUIRED)
- CLASS I RIP RAP
SEE DETAIL 5/G6
- BRIDGE MAT
SEE DETAIL 1/G6

DISTURBED AREA		
SHEET NUMBER	AREA (SQUARE FEET)	AREA (ACRES)
C6	197,995	4.55
C7	114,001	2.62
C8	137,796	3.16
C9	98,595	2.26
C10	47,728	1.10
C11	130,346	2.99
TOTAL	726,461	16.68

- NOTES:**
- LAWNS DISTURBED BY CONSTRUCTION ACTIVITIES SHALL BE SCODDED TO PROVIDE IMMEDIATE PERMANENT STABILIZATION. ALL OTHER AREAS NOT INDICATED AS PAVEMENT, SOD OR OTHER RESTORATION TECHNIQUES SHALL BE SEEDED AND MULCHED.
 - WHERE INDIVIDUAL SEWER LATERALS ARE TO BE INSTALLED IN THE GRASS SHOULDER OF THE STREET RIGHT-OF-WAY, THOSE DISTURBED AREAS (APPROX. 6'X12') SHALL BE SEEDED AND MULCHED.
 - PROVIDE ROCK PIPE INLET PROTECTION FOR PROPOSED 18" RCP THAT IS TO BE INSTALLED FOR TEMPORARY ROADWAY. AFTER REMOVAL OF TEMPORARY ROADWAY AND TEMPORARY DRAINAGE PIPE, RESTORE DITCH AND STABILIZE BANKS. PROVIDE ROCK PIPE INLET PROTECTION FOR EXISTING 18" DRAINAGE PIPE UNTIL DITCH IS STABILIZED.
 - ONCE CONSTRUCTION IS COMPLETE, CONTRACTOR SHALL REMOVE TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT AND RESTORE EXISTING GRADE BACK TO ORIGINAL CONDITIONS. THE LOD DOES NOT INCREASE.
 - CONTRACTOR SHALL NOT DISTURB MORE THAN CAN BE STABILIZED BY THE END OF THE WORK DAY.
 - CURB INLET PROTECTION SHALL BE INSTALLED ON THREE DRAINAGE INLETS AROUND THE INTERSECTION OF HICKORY KNOLL ROAD AND YEOMAN DRIVE. THE LOD DOES NOT INCREASE.

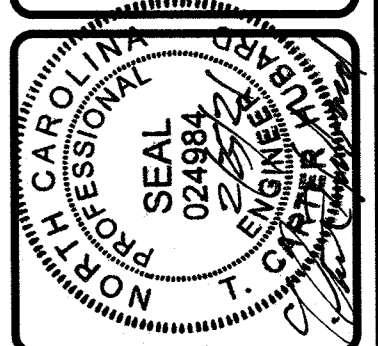


MATCH LINE SEE SHEET C8

DATE: 2/5/2021	REVISIONS:
SURVEYED BY: STEWART	
DRAWN BY: ANH/DK	
CHECKED BY: TCH	
SCALE: HOR: 1"=50'	
SCALE: VERT: 1"=5'	

DICKSON
 CIVIL ENGINEERING & ARCHITECTURE
 720 Corporate Center Drive
 Raleigh, North Carolina 27607
 (919) 782-0872
 www.dicksonnc.com

SHEET # C7



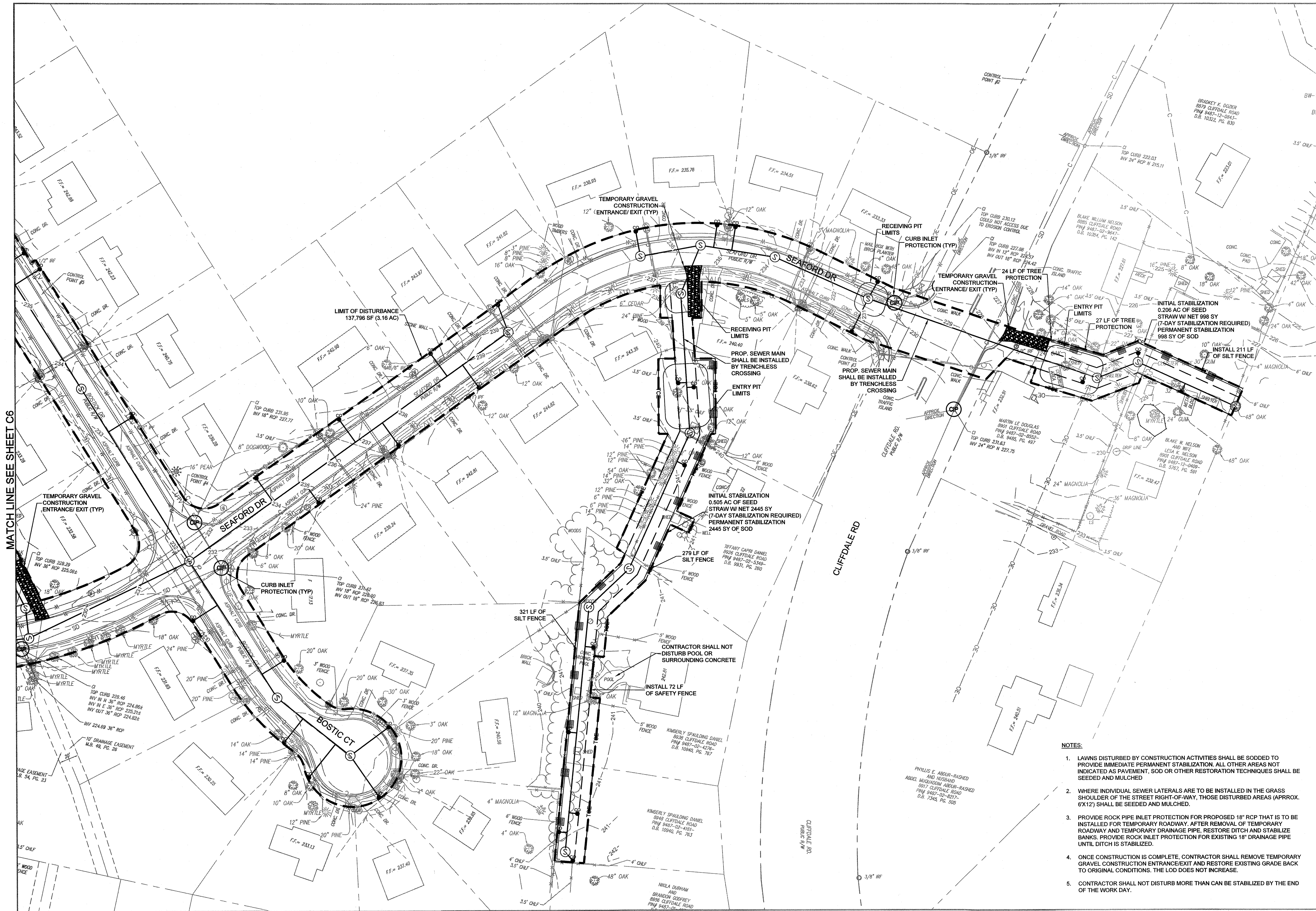
EROSION CONTROL AREA B2
 ANNEXATION PHASE V, AREA 24, SECTIONS B & C
 FAYETTEVILLE, NORTH CAROLINA

FAYETTEVILLE
 PUBLIC WORKS COMMISSION

PWC
 WATER RESOURCES ENGINEERING

815 S. 10th Street, Fayetteville, NC 28405
 855 0th Wilmington Road, Fayetteville, NC 28401

PWC DWG # DS-15412
 20190126.00.RA



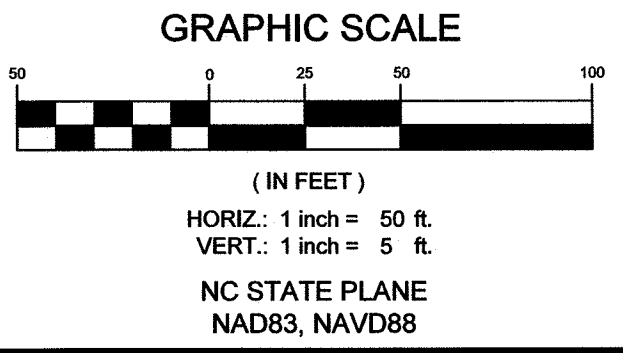
EROSION CONTROL LEGEND

- CURB INLET PROTECTION
SEE DETAIL 4/G5
- CHECK DAM
SEE DETAIL 2/G5
- ROCK PIPE INLET PROTECTION
SEE DETAIL 3/G5
- SILT FENCE
SEE DETAIL 1/G5
- TREE PROTECTION
SEE DETAIL 5/G5
- LIMIT OF DISTURBANCE
- TEMPORARY GRAVEL CONSTRUCTION
ENTRANCE/EXIT
SEE DETAIL 6/G5
- STRAW W/ NET
SEE DETAIL 7/G5
(7-DAY STABILIZATION REQUIRED)
- CLASS I RIP RAP
SEE DETAIL 5/G6
- BRIDGE MAT
SEE DETAIL 1/G6

DISTURBED AREA		
SHEET NUMBER	AREA (SQUARE FEET)	AREA (ACRES)
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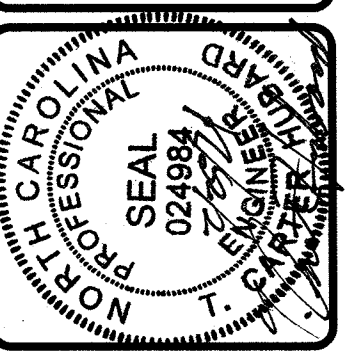
MATCH LINE SEE SHEET C6



DATE	REVISIONS

DATE: 2/5/2021
 SURVEY/DES BY: STEWART
 DRAWN BY: AMH/DK
 CHECKED BY: TCH
 SCALE: HOR: 1"=50
 VERT: 1"=5

Dickson
 CONSULTING ENGINEERS
 720 Corporate Center Drive
 Raleigh, North Carolina 27607
 (919) 750-9972
 www.dickson-engineers.com

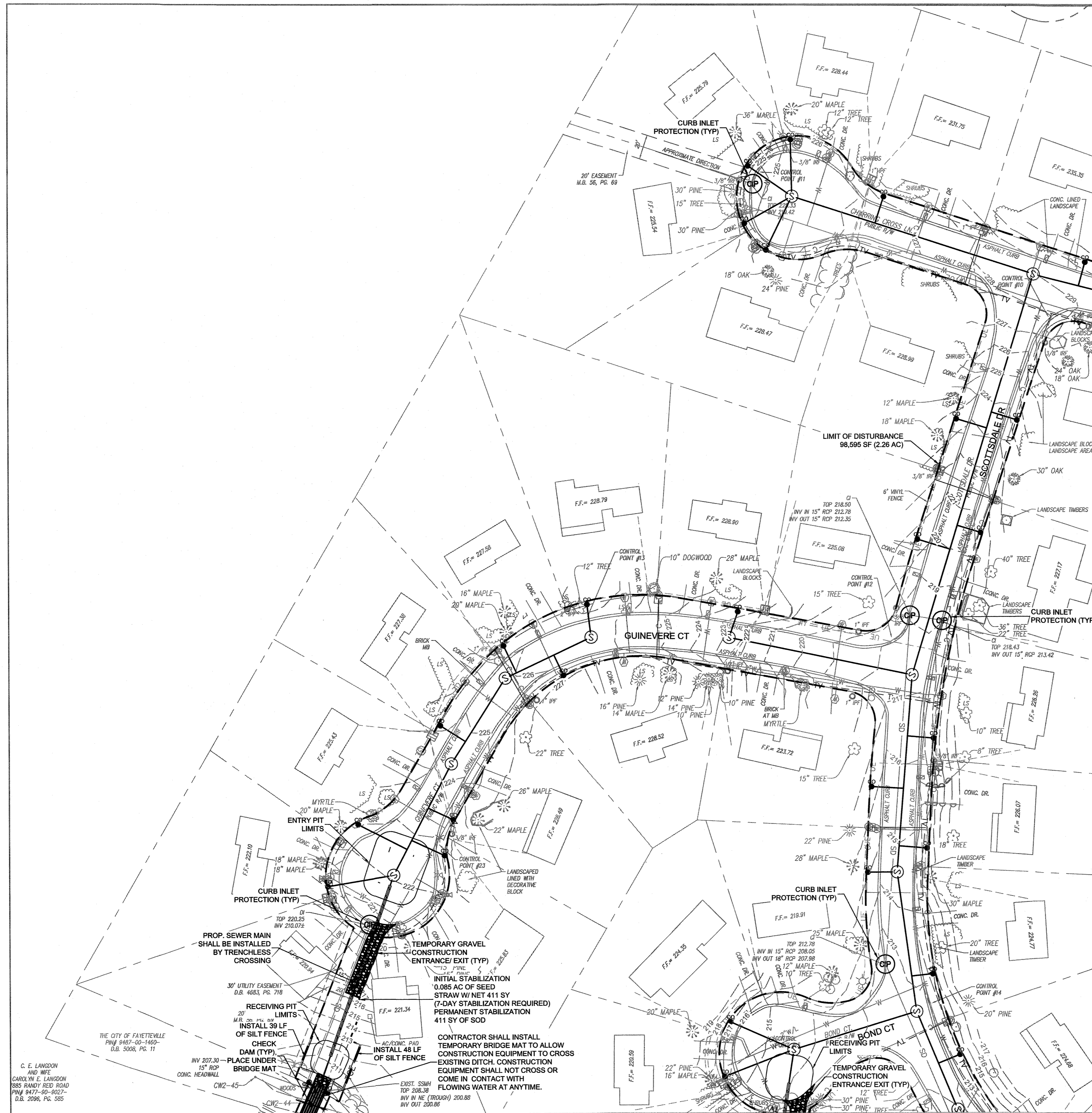


EROSION CONTROL AREA B3
 ANNEXATION PHASE V, AREA 24, SECTIONS B & C
 FAYETTEVILLE, NORTH CAROLINA

FAYETTEVILLE
PWC
 PUBLIC WORKS COMMISSION
WATER RESOURCES ENGINEERING
 P.O. Box 1084 Fayetteville, NC 28402
 955 Old Wilmington Road, Fayetteville, NC 28301

PWC DWG # DS-15412

20190126.00.RA



- NOTES:**
- LAWNS DISTURBED BY CONSTRUCTION ACTIVITIES SHALL BE SODDED TO PROVIDE IMMEDIATE PERMANENT STABILIZATION. ALL OTHER AREAS NOT INDICATED AS PAVEMENT, SOD OR OTHER RESTORATION TECHNIQUES SHALL BE SEEDED AND MULCHED.
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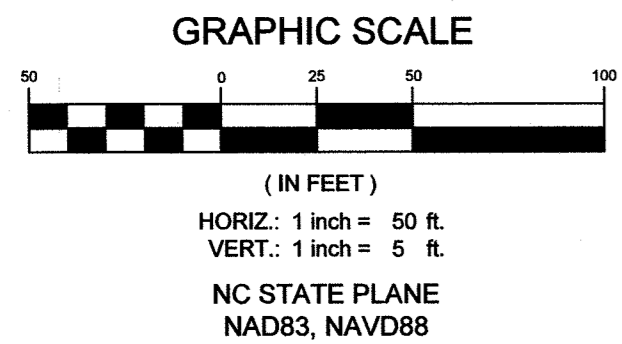
EROSION CONTROL LEGEND

- CURB INLET PROTECTION
SEE DETAIL 4/G5
- CHECK DAM
SEE DETAIL 2/G5
- ROCK PIPE INLET PROTECTION
SEE DETAIL 3/G5
- SILT FENCE
SEE DETAIL 1/G5
- TREE PROTECTION
SEE DETAIL 5/G5
- LIMIT OF DISTURBANCE
- TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT
SEE DETAIL 6/G5
- STRAW W/ NET
SEE DETAIL 7/G5 (7-DAY STABILIZATION REQUIRED)
- CLASS I RIP RAP
SEE DETAIL 5/G6
- BRIDGE MAT
SEE DETAIL 1/G6

DISTURBED AREA		
SHEET NUMBER	AREA (SQUARE FEET)	AREA (ACRES)
C6	197,995	4.55
C7	114,001	2.62
C8	137,796	3.16
C9	98,595	2.26
C10	47,728	1.10
C11	130,346	2.99
TOTAL	726,461	16.68

MATCH LINE SEE SHEET C10

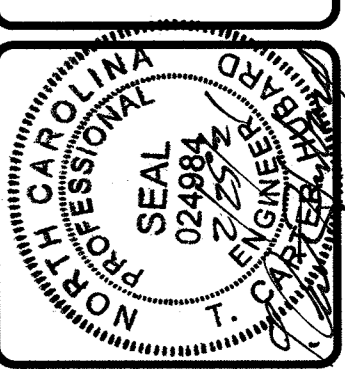
MATCH LINE SEE SHEET C11



DATE	2/5/2021
REVISIONS	

DATE: 2/5/2021
 SURVEYED BY: STEWART
 DRAWN BY: AMH/DK
 CHECKED BY: TCH
 SCALE: HOR: 1"=50
 VERT: 1"=5

DICKSON
 COMMUNITY DEVELOPMENT CONSULTANTS
 720 Corporate Center Drive
 Raleigh, North Carolina 27607
 (919) 752-2072
 www.dickson.com



EROSION CONTROL AREA C1
 ANNEXATION PHASE V, AREA 24, SECTIONS B & C
 FAYETTEVILLE, NORTH CAROLINA

FAYETTEVILLE PUBLIC WORKS COMMISSION
PWC WATER RESOURCES ENGINEERING
 P.O. Box 1088, Fayetteville, NC 28402
 855 Old Wilmington Road, Fayetteville, NC 28301

PWC DWG # DS-15412

20190126.00.RA

MATCH LINE SEE BOTTOM RIGHT THIS SHEET



MATCH LINE SEE SHEET C11

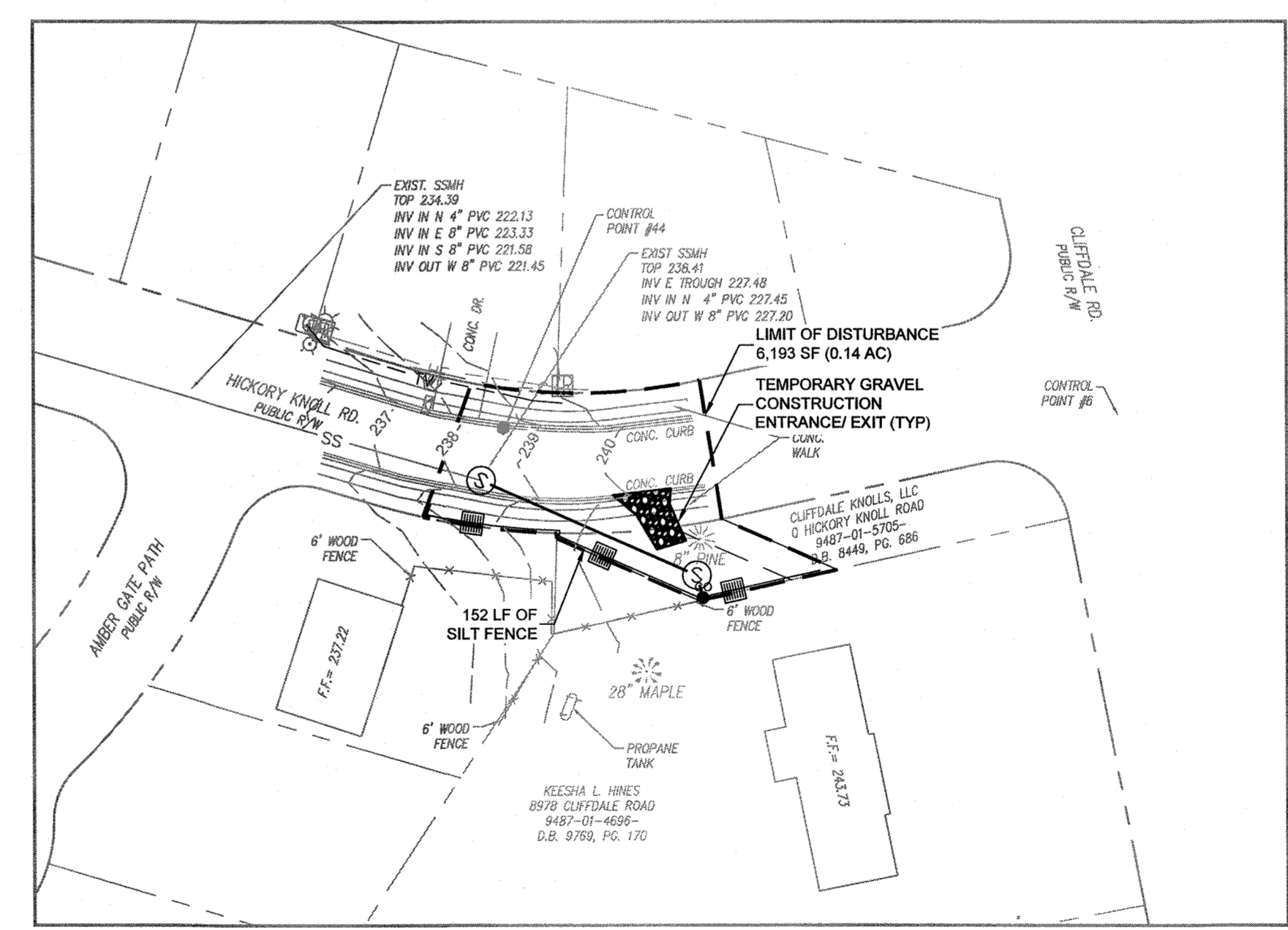
NOTES:

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2. WHERE INDIVIDUAL SEWER LATERALS ARE TO BE INSTALLED IN THE GRASS SHOULDER OF THE STREET RIGHT-OF-WAY, THOSE DISTURBED AREAS (APPROX. 6'X12') SHALL BE SEEDED AND MULCHED.
3. PROVIDE ROCK PIPE INLET PROTECTION FOR PROPOSED 18\"/>

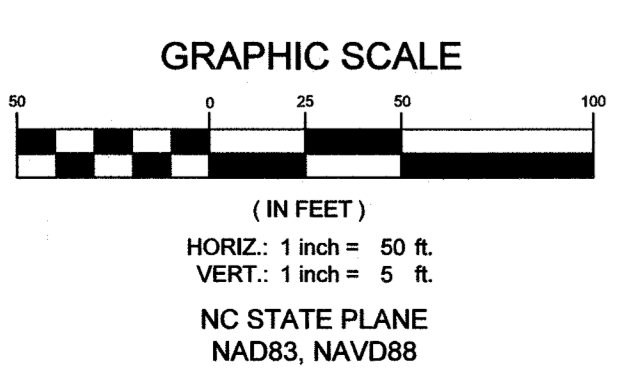
DISTURBED AREA		
SHEET NUMBER	AREA (SQUARE FEET)	AREA (ACRES)
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TOTAL	726,461	16.68

EROSION CONTROL LEGEND

- CURB INLET PROTECTION
SEE DETAIL 4/G5
- CHECK DAM
SEE DETAIL 2/G5
- ROCK PIPE INLET PROTECTION
SEE DETAIL 3/G5
- SILT FENCE
SEE DETAIL 1/G5
- TREE PROTECTION
SEE DETAIL 5/G5
- LIMIT OF DISTURBANCE
- TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT
SEE DETAIL 6/G5
- STRAW W/ NET
SEE DETAIL 7/G5 (7-DAY STABILIZATION REQUIRED)
- CLASS I RIP RAP
SEE DETAIL 5/G6
- BRIDGE MAT
SEE DETAIL 1/G6



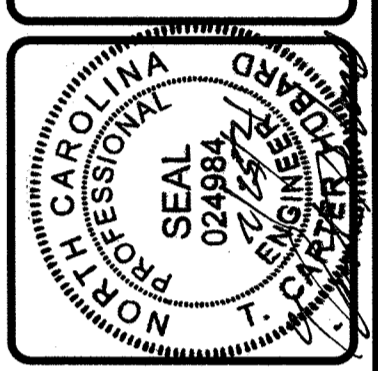
MATCH LINE SEE TOP LEFT THIS SHEET



BY:	
REVISIONS:	
DATE:	

DATE: 2/5/2021
 SURVEY/GIS BY: STEWART
 DRAWN BY: AMH/DK
 CHECKED BY: TCH
 SCALE: HORIZ: 1"=50
 VERT: 1"=5

WICKSON
 COMMUNITY INFRASTRUCTURE CONSULTANTS
 720 Corporate Center Drive
 Raleigh, North Carolina 27607
 (919) 782-8872
 www.wickson.com

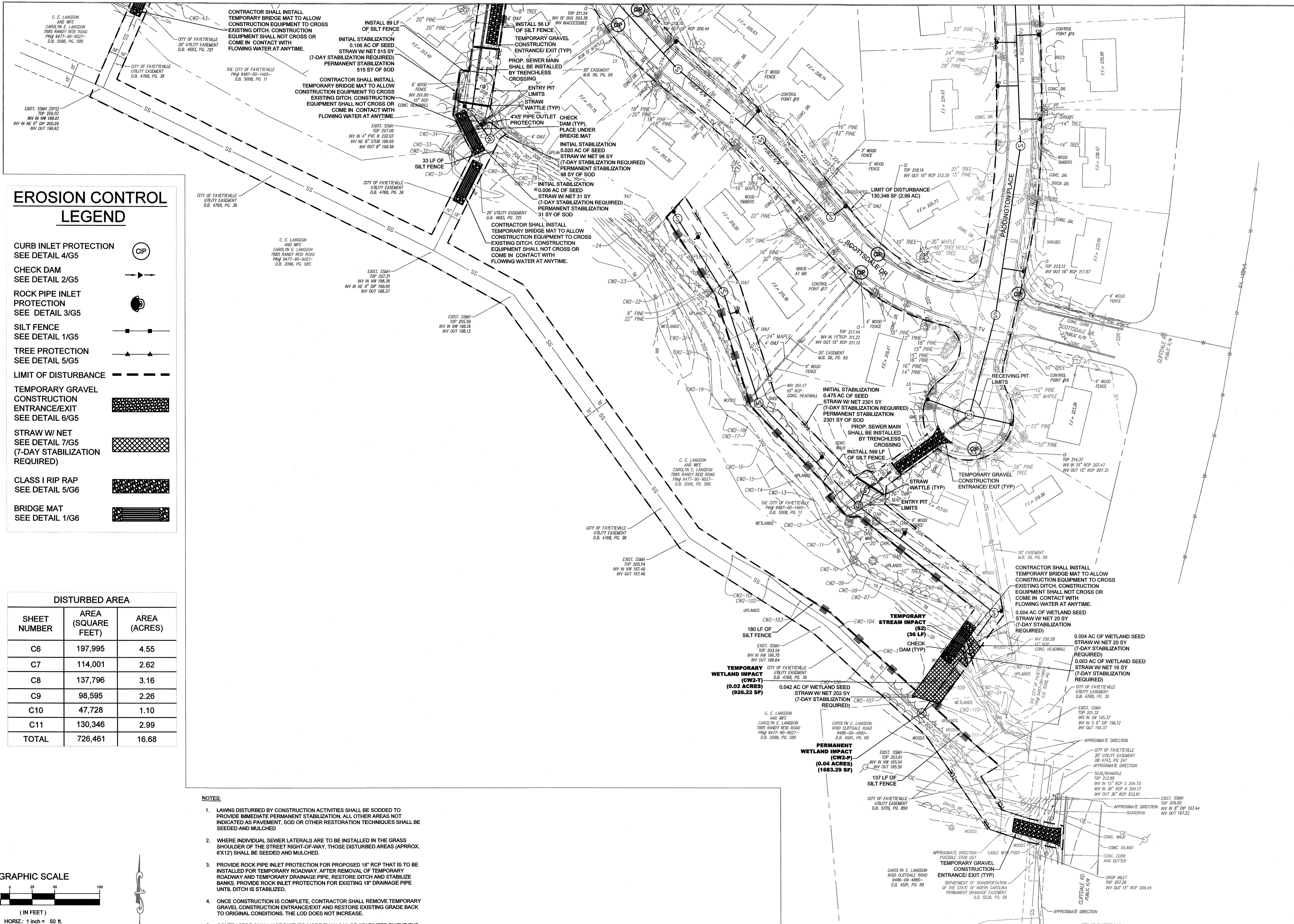


EROSION CONTROL AREA C2
 ANNEXATION PHASE V, AREA 24, SECTIONS B & C
 FAYETTEVILLE, NORTH CAROLINA

FAYETTEVILLE PUBLIC WORKS COMMISSION
PWC WATER RESOURCES ENGINEERING
 P.O. Box 1089, Fayetteville, NC 28302
 855 Old Wilmington Road, Fayetteville, NC 28301

MATCH LINE SEE SHEET C9

MATCH LINE SEE SHEET C10

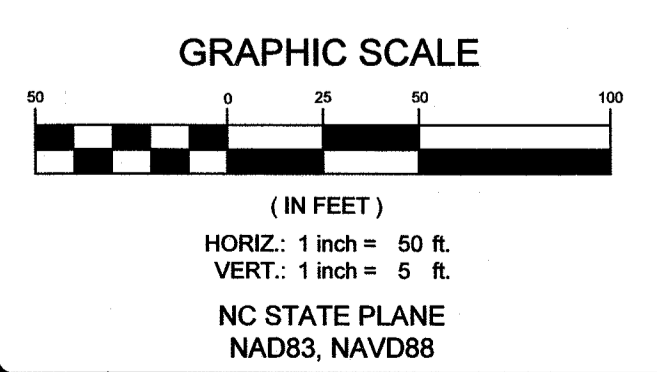


EROSION CONTROL LEGEND

- CURB INLET PROTECTION**
SEE DETAIL 4/G5
- CHECK DAM**
SEE DETAIL 2/G5
- ROCK PIPE INLET PROTECTION**
SEE DETAIL 3/G5
- SILT FENCE**
SEE DETAIL 1/G5
- TREE PROTECTION**
SEE DETAIL 5/G5
- LIMIT OF DISTURBANCE**
- TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT**
SEE DETAIL 6/G5
- STRAW W/ NET (7-DAY STABILIZATION REQUIRED)**
- CLASS I RIP RAP**
SEE DETAIL 5/G6
- BRIDGE MAT**
SEE DETAIL 1/G6

DISTURBED AREA		
SHEET NUMBER	AREA (SQUARE FEET)	AREA (ACRES)
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C7	114,001	2.62
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 - ONCE CONSTRUCTION IS COMPLETE, CONTRACTOR SHALL REMOVE TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT AND RESTORE EXISTING GRADE BACK TO ORIGINAL CONDITIONS. THE LOD DOES NOT INCREASE.
 - CONTRACTOR SHALL NOT DISTURB MORE THAN CAN BE STABILIZED BY THE END OF THE WORK DAY.



DATE: 2/5/2021

REVISIONS:

DATE: 2/5/2021

DATE: 2/5/2021

DATE: 2/5/2021

DATE: 2/5/2021

DATE: 2/5/2021

DESIGNED BY: STEWART

DRAWN BY: AMLODK

CHECKED BY: TCH

SCALE: HOR: 1"=50'

VERT: 1"=5'

PROJECT # C11

WATER RESOURCES ENGINEERING

985 Old Wilmington Road, Fayetteville, NC 28301

ANNEXATION PHASE V, AREA 24, SECTIONS B & C

FAYETTEVILLE, NORTH CAROLINA

WATER RESOURCES ENGINEERING

985 Old Wilmington Road, Fayetteville, NC 28301

ANNEXATION PHASE V, AREA 24, SECTIONS B & C

FAYETTEVILLE, NORTH CAROLINA

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ANNEXATION PHASE V, AREA 24, SECTIONS B & C

FAYETTEVILLE, NORTH CAROLINA

WATER RESOURCES ENGINEERING

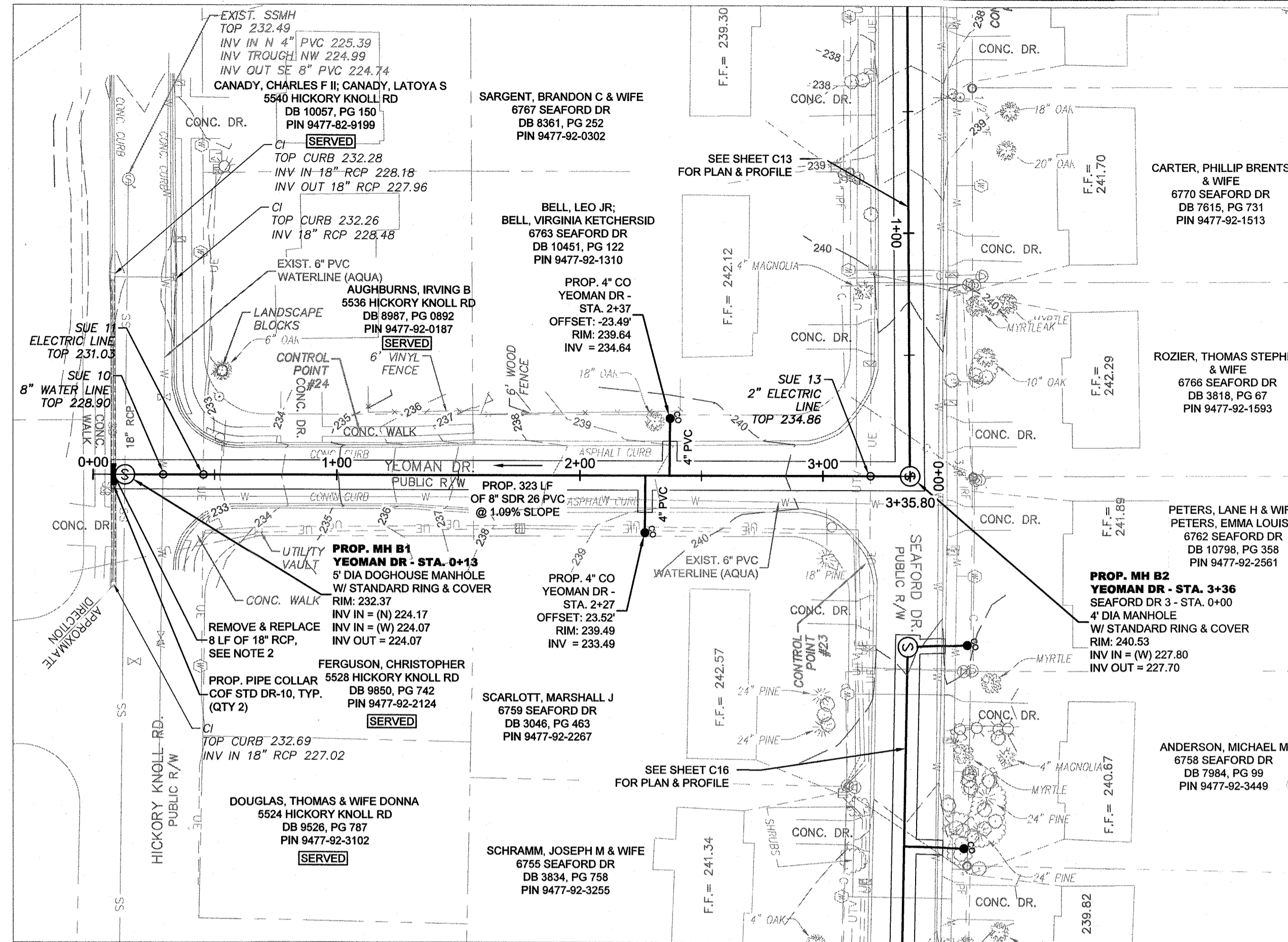
985 Old Wilmington Road, Fayetteville, NC 28301

ANNEXATION PHASE V, AREA 24, SECTIONS B & C

FAYETTEVILLE, NORTH CAROLINA

PWC DWG # DS-15412

20190126.00.RA



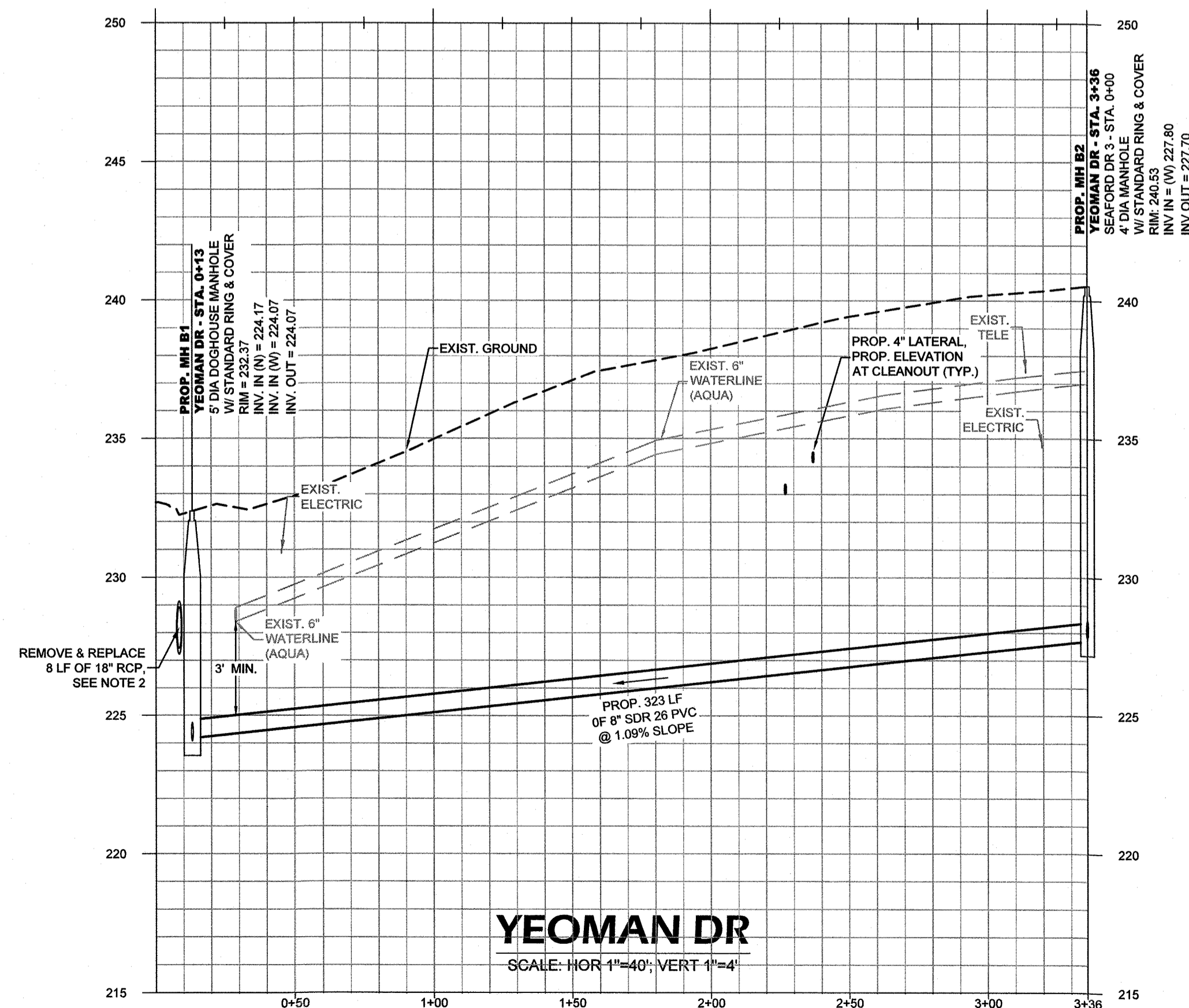
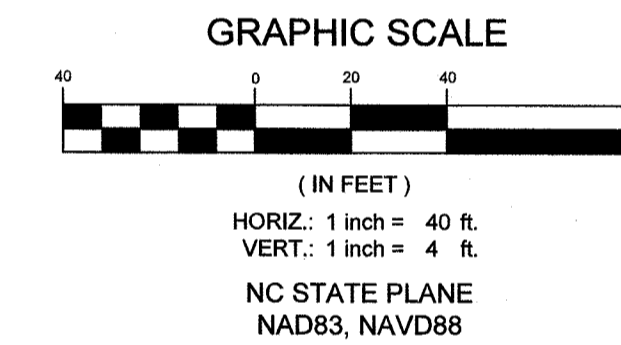
LEGEND	
	PROP. EASEMENT
	PROP. SEWER, CLEAN OUT & MANHOLE
	PROP. STORM DRAINAGE
	PROP. WATER LINE & METER
	SANITARY SEWER LINE & MANHOLE
	WATER LINE & VALVE
	UNDERGROUND GAS (APPROX. LOCATION)
	COMMUNICATION LINE (APPROX. LOCATION)
	UNDERGROUND ELECTRIC
	UNDERGROUND TELEPHONE
	UNDERGROUND FIBER OPTIC LINE
	UNDERGROUND TELEVISION CABLE LINE
	PROP. TEMPORARY CONSTRUCTION EASEMENT
	PROP. SAFETY FENCE
	SOIL BORING LOCATION
	SEE GEOTECHNICAL REPORT
	PROP. REVERSE PLUMBING
	PROP. BACKWATER VALVE
	PROP. GRINDER PUMP
	APPROX. EXIST. SEPTIC TANK
	ELECTRIC PEDESTAL
	CONCRETE MONUMENT
	IRON PIPE FOUND
	WATER METER
	IRRIGATION VALVE
	ELECTRIC TRANSFORMER
	TELEPHONE PEDESTAL
	TELEVISION PEDESTAL
	DRAINAGE MANHOLE
	FIRE HYDRANT
	MAILBOX
	LIGHT POLE
	DROP INLET
	FINISH FLOOR
	INVERT
	POST
	LAMP
	BUSH
	SIGN

GENERAL NOTE:

- CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE THE PROPOSED SEWER LATERAL INSTALLATION WITH THE EXISTING UTILITIES. CONTRACTOR SHALL USE PWC STANDARD DETAIL S.12 SEWER SERVICE LATERAL. UTILITY CONFLICT SEPARATION REQUIREMENTS ONLY WHEN APPROVED BY PWC PROJECT COORDINATOR.
- CONTRACTOR SHALL CENTER 18" RCP OVER SEWER MAIN AND CONNECT TO EXISTING RCP WITH CONCRETE PIPE COLLARS. SEE COP STANDARD DETAIL DR-19.

SEPTIC TANK NOTE:

- CONTRACTOR SHALL REPAIR ANY DAMAGE TO SEPTIC TANK AND/OR DRAIN FIELD, TO EXISTING OR BETTER CONDITION IN ACCORDANCE WITH ALL LOCAL AND STATE REGULATIONS. IMMEDIATELY UPON OCCURRENCE OF DAMAGE DURING CONSTRUCTION OF SEWER IMPROVEMENTS. CONTRACTOR SHALL PUMP AND HULL SEPTIC CONTENTS AS NECESSARY DURING THE INTERIM BETWEEN SEPTIC SYSTEM DAMAGE AND REPAIR. NO SEPARATE PAYMENT.



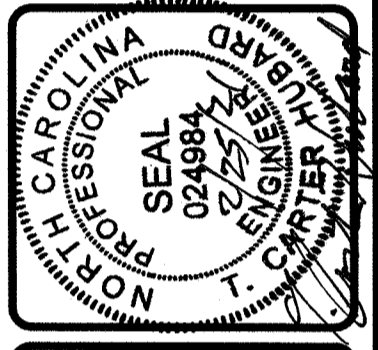
YEOMAN DR

SCALE: HOR 1"=40', VERT 1"=4'

DATE	REVISIONS

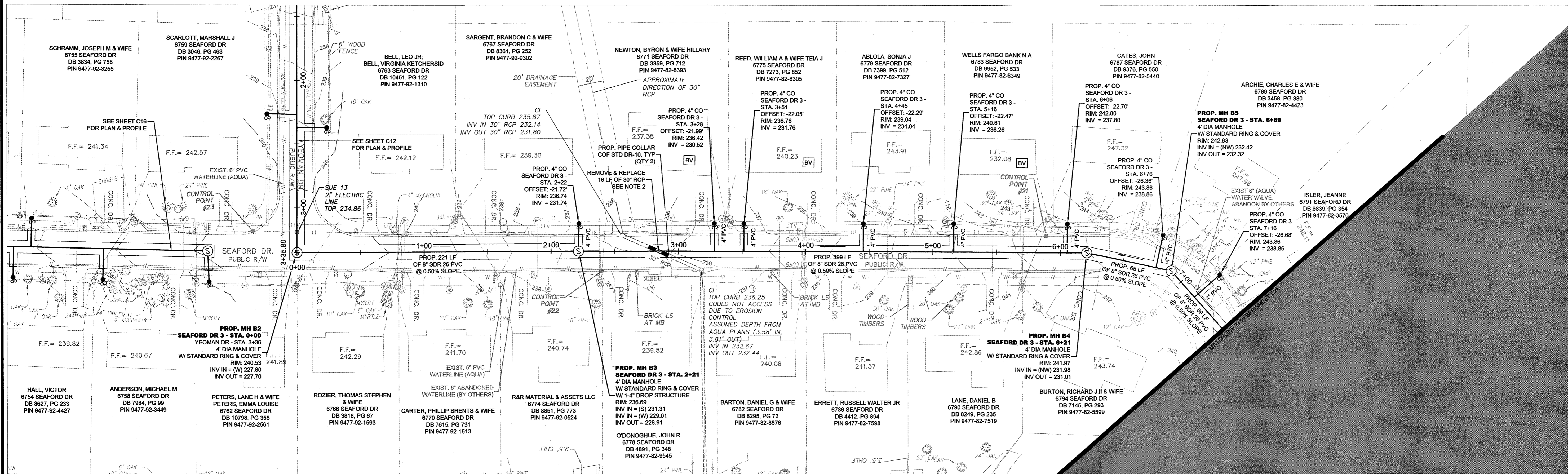
DATE: 2/5/2021
 SURVEY/GPS BY: STEWART
 DRAWN BY: AMH/DK
 CHECKED BY: TCH
 SCALE: HOR 1"=40' VERT 1"=4'

WICKSON
 COMMUNITY INFRASTRUCTURE CONSULTANTS
 720 Corporate Center Drive
 Raleigh, North Carolina 27607
 (919) 872-8877
 www.wicksoninc.com



YEOMAN DR
 ANNEXATION PHASE V, AREA 24, SECTIONS B & C
 FAYETTEVILLE, NORTH CAROLINA

FAYETTEVILLE
PUBLIC WORKS COMMISSION
PWC WATER RESOURCES ENGINEERING
 P.O. Box 1908, Fayetteville, NC 28302
 855 Old Wilmington Road, Fayetteville, NC 28301



LEGEND

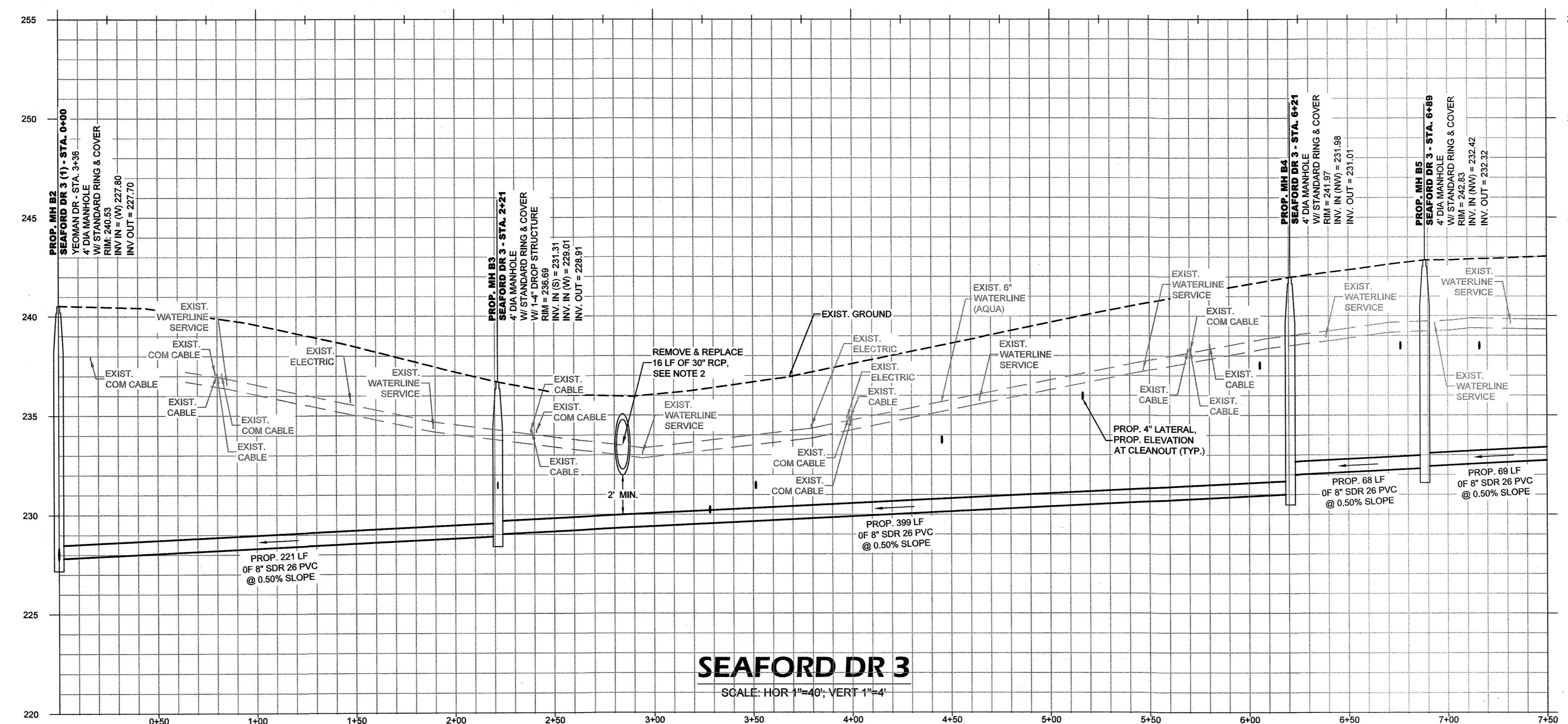
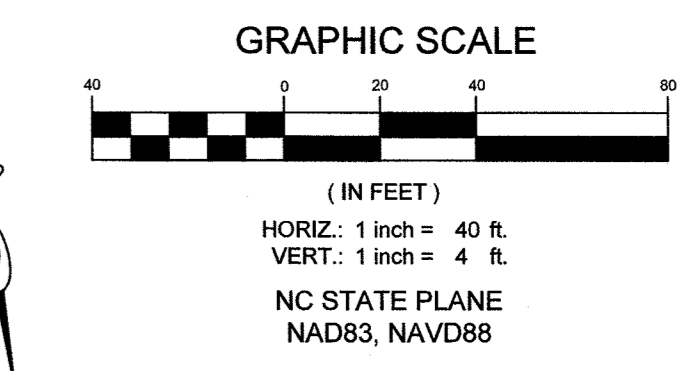
—	PROP. EASEMENT	—	PROP. TEMPORARY CONSTRUCTION EASEMENT	⊕	WATER METER
—	PROP. SEWER, CLEAN OUT & MANHOLE	—	PROP. SAFETY FENCE	⊕	IRRIGATION VALVE
—	PROP. STORM DRAINAGE	—	SOIL BORING LOCATION	⊕	ELECTRIC TRANSFORMER
—	PROP. WATER LINE & METER	—	SEE GEOTECHNICAL REPORT	⊕	TELEPHONE PEDESTAL
—	SANITARY SEWER LINE & MANHOLE	—	PROP. REVERSE PLUMBING	⊕	TELEVISION PEDISTAL
—	WATER LINE & VALVE	—	PROP. BACKWATER VALVE	⊕	DRAINAGE MANHOLE
—	UNDERGROUND GAS (APPROX. LOCATION)	—	PROP. GRINDER PUMP	⊕	FIRE HYDRANT
—	COMMUNICATION LINE (APPROX. LOCATION)	—	APPROX EXIST SEPTIC TANK	⊕	MAILBOX
—	UNDERGROUND ELECTRIC	—	ELECTRIC PEDESTAL	⊕	LIGHT POLE
—	UNDERGROUND TELEPHONE	—	CONCRETE MONUMENT	⊕	POST
—	UNDERGROUND FIBER OPTIC LINE	—	IRON PIPE FOUND	⊕	LAMP
—	UNDERGROUND TELEVISION CABLE LINE	—		⊕	BUSH
		—		⊕	SIGN

GENERAL NOTE:

- CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE THE PROPOSED SEWER LATERAL INSTALLATION WITH THE EXISTING UTILITIES. CONTRACTOR SHALL USE PWC STANDARD DETAIL S.12 SEWER SERVICE LATERAL UTILITY CONFLICT SEPARATION REQUIREMENTS ONLY WHEN APPROVED BY PWC PROJECT COORDINATOR.
- CONTRACTOR SHALL CENTER 30" RCP OVER SEWER MAIN AND CONNECT TO EXISTING RCP WITH CONCRETE COLLARS. SEE COF STANDARD DETAIL DR-19.

SEPTIC TANK NOTE:

- CONTRACTOR SHALL REPAIR ANY DAMAGE TO SEPTIC TANK AND/OR DRAIN FIELD, TO EXISTING OR BETTER CONDITION IN ACCORDANCE WITH ALL LOCAL AND STATE REGULATIONS, IMMEDIATELY UPON OCCURRENCE OF DAMAGE DURING CONSTRUCTION OF SEWER IMPROVEMENTS. CONTRACTOR SHALL PUMP AND HAUL SEPTIC CONTENTS AS NECESSARY DURING THE INTERIM BETWEEN SEPTIC SYSTEM DAMAGE AND REPAIR. NO SEPARATE PAYMENT.



SEAFORD DR 3
SCALE: HOR 1"=40'; VERT 1"=4'

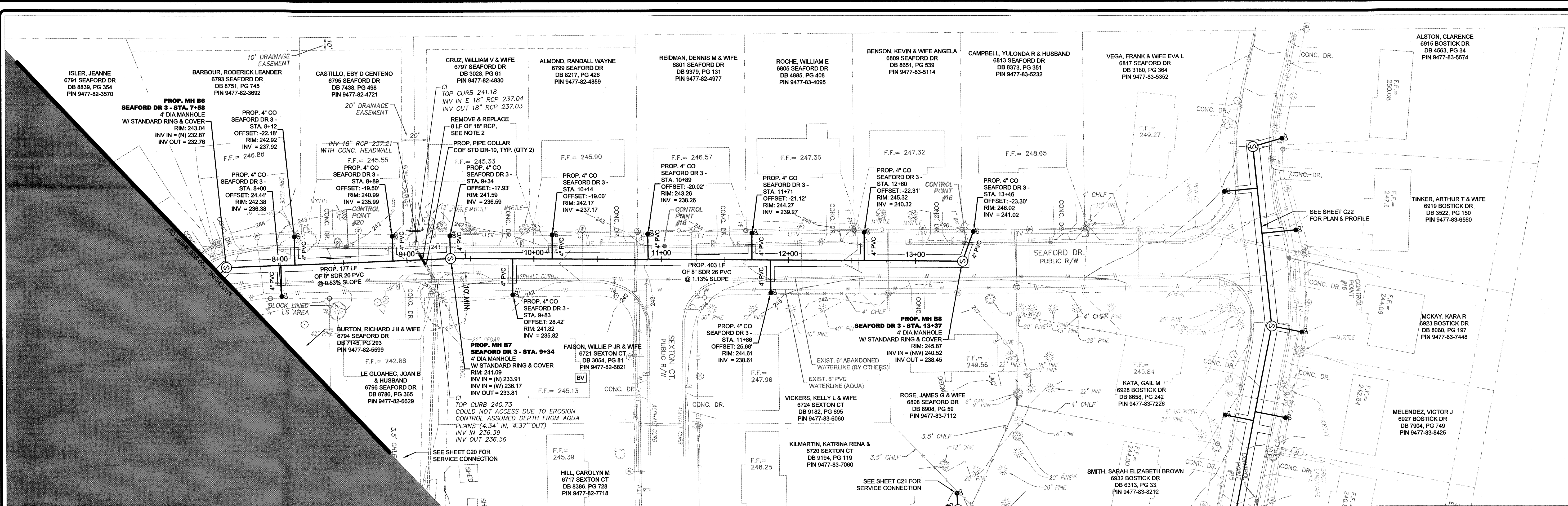
PWC DWG # DS-15412

DATE: 2/5/2021
 SURVEY/DESIGN BY: STEWART
 DRAWN BY: AMI/DK
 CHECKED BY: TCH
 SCALE: HOR: 1"=40' VERT: 1"=4'
 SHEET # 013

PWC
 Public Works Commission
 Water Resources Engineering
 855 Old Manington Road, Fayetteville, NC 28401
 P.O. Box 1085, Fayetteville, NC 28402

SEAFORD DR 3
 ANNEXATION PHASE V, AREA 24, SECTIONS B & C
 FAYETTEVILLE, NORTH CAROLINA

PWC DWG # DS-15412
 2/10/2021 10:50 AM



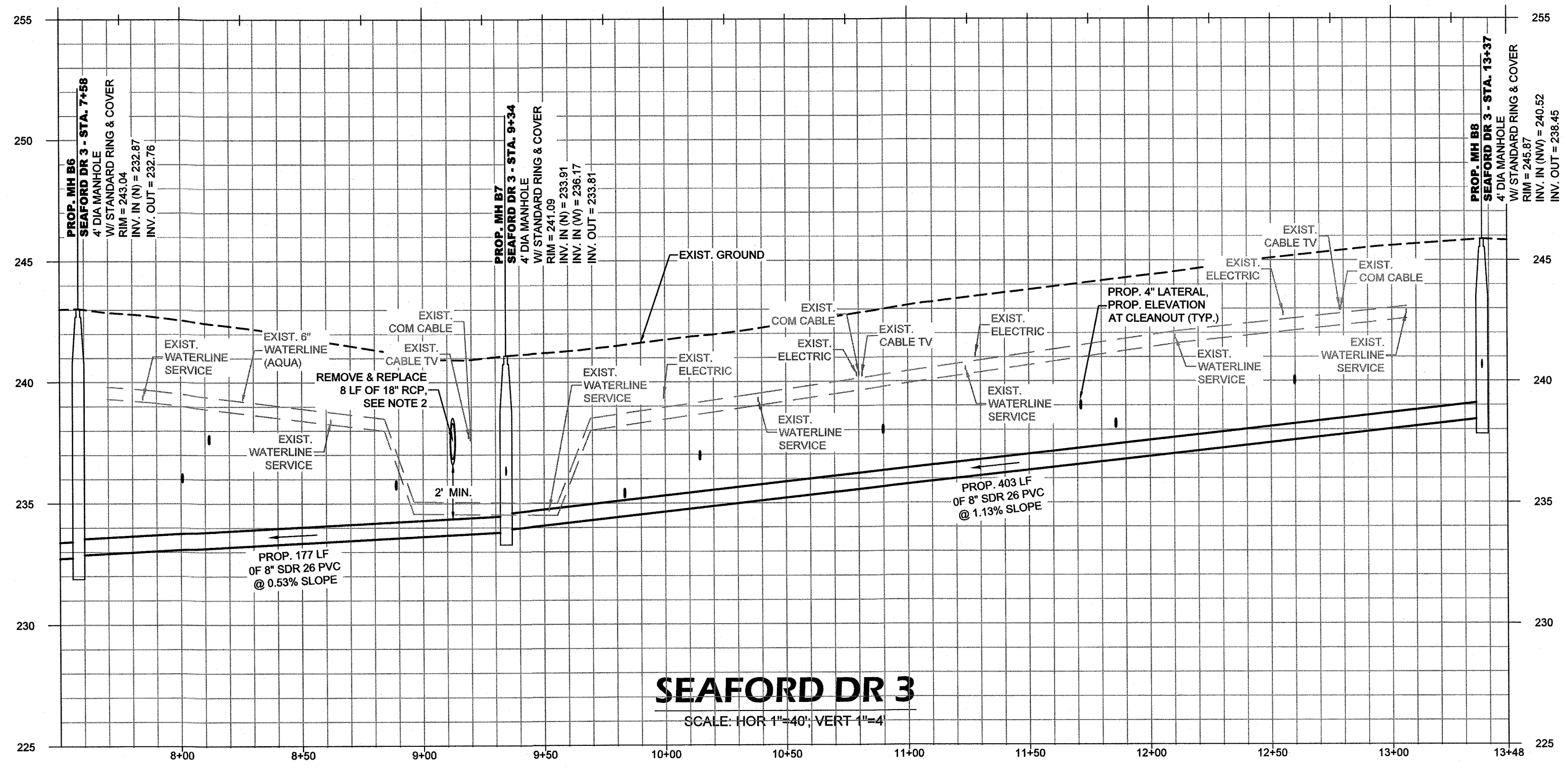
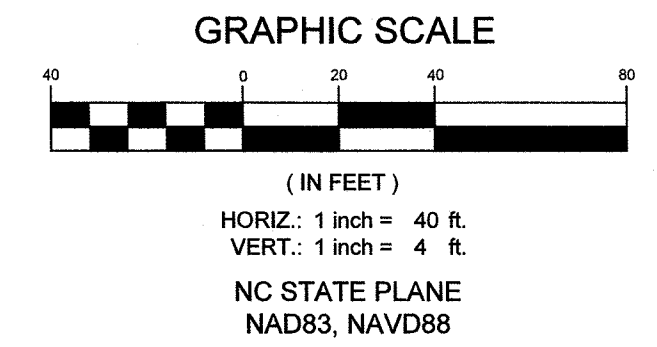
LEGEND	
	PROP. EASEMENT
	PROP. SEWER, CLEAN OUT & MANHOLE
	PROP. STORM DRAINAGE
	PROP. WATER LINE & METER
	SANITARY SEWER LINE & MANHOLE
	WATER LINE & VALVE
	UNDERGROUND GAS (APPROX. LOCATION)
	COMMUNICATION LINE (APPROX. LOCATION)
	UNDERGROUND ELECTRIC
	UNDERGROUND TELEPHONE
	UNDERGROUND FIBER OPTIC LINE
	UNDERGROUND TELEVISION CABLE LINE
	PROP. TEMPORARY CONSTRUCTION EASEMENT
	PROP. SAFETY FENCE
	SOIL BORING LOCATION
	PROP. REVERSE PLUMBING REPORT
	PROP. BACKWATER VALVE
	PROP. GRINDER PUMP
	APPROX. EXIST. SEPTIC TANK
	ELEC. PED.
	CONCRETE MONUMENT
	IRON PIPE FOUND
	WATER METER
	IRRIGATION VALVE
	ELECTRIC TRANSFORMER
	TELEPHONE PEDESTAL
	DRAINAGE MANHOLE
	FIRE HYDRANT
	MAILBOX
	LIGHT POLE
	DROP INLET
	FINISH FLOOR
	INVERT
	POST
	LAMP
	BUSH
	SIGN

GENERAL NOTE:

- CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE THE PROPOSED SEWER LATERAL INSTALLATION WITH THE EXISTING UTILITIES. CONTRACTOR SHALL USE PWC STANDARD DETAIL S.12 SEWER SERVICE LATERAL UTILITY CONFLICT SEPARATION REQUIREMENTS ONLY WHEN APPROVED BY PWC PROJECT COORDINATOR.
- CONTRACTOR SHALL CENTER 18" RCP OVER SEWER MAIN AND CONNECT TO EXISTING RCP WITH CONCRETE PIPE COLLARS. SEE COF STANDARD DETAIL DR-19.

SEPTIC TANK NOTE:

- CONTRACTOR SHALL REPAIR ANY DAMAGE TO SEPTIC TANK AND/OR DRAIN FIELD, TO EXISTING OR BETTER CONDITION IN ACCORDANCE WITH ALL LOCAL AND STATE REGULATIONS, IMMEDIATELY UPON OCCURRENCE OF DAMAGE DURING CONSTRUCTION OF SEWER IMPROVEMENTS. CONTRACTOR SHALL PUMP AND HAUL SEPTIC CONTENTS AS NECESSARY DURING THE INTERIM BETWEEN SEPTIC SYSTEM DAMAGE AND REPAIR. NO SEPARATE PAYMENT.



SEAFORD DR 3
SCALE: HOR 1"=40', VERT 1"=4'

DATE: 2/5/2021
 SURVEYED BY: STEWART
 DRAWN BY: AMH/DK
 CHECKED BY: TCH
 SCALE: HOR: 1"=40' VERT: 1"=4'

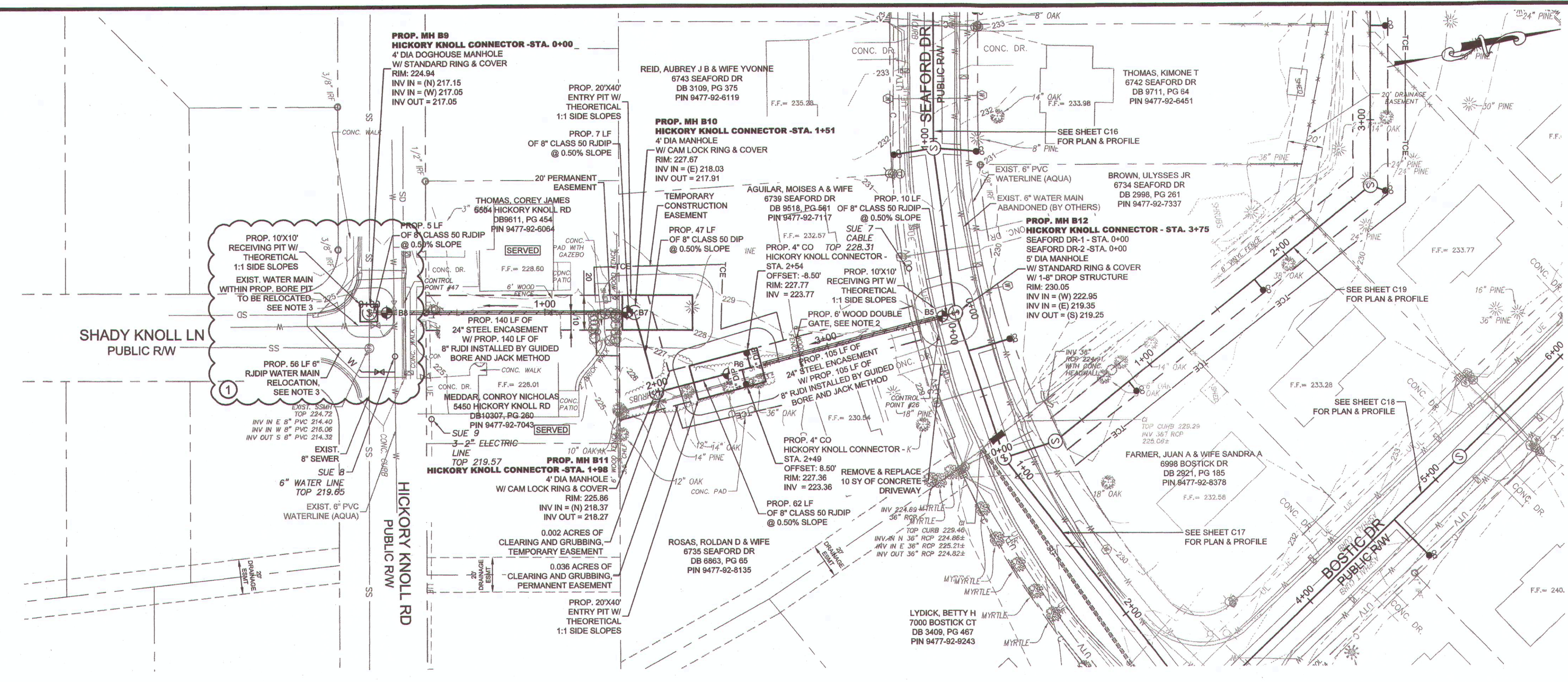
DICKSON
 COMMUNITY DEVELOPMENT CONSULTANTS
 720 Corporate Center Drive
 Raleigh, North Carolina 27607
 (919) 792-9972
 WWW.DICKSON.COM

PROFESSIONAL SEAL
 024984
 T. CAMPBELL
 ENGINEER

SEAFORD DR 3 (1)
 ANNEXATION PHASE V, AREA 24, SECTIONS B & C
 FAYETTEVILLE, NORTH CAROLINA

FAYETTEVILLE
 PUBLIC WORKS COMMISSION
PWC
 WATER RESOURCES ENGINEERING
 P.O. Box 1088 Fayetteville, NC 28402
 955 Old Wilmington Road, Fayetteville, NC 28301

PWC DWG # DS-15412
 20190126.00.RA



LEGEND

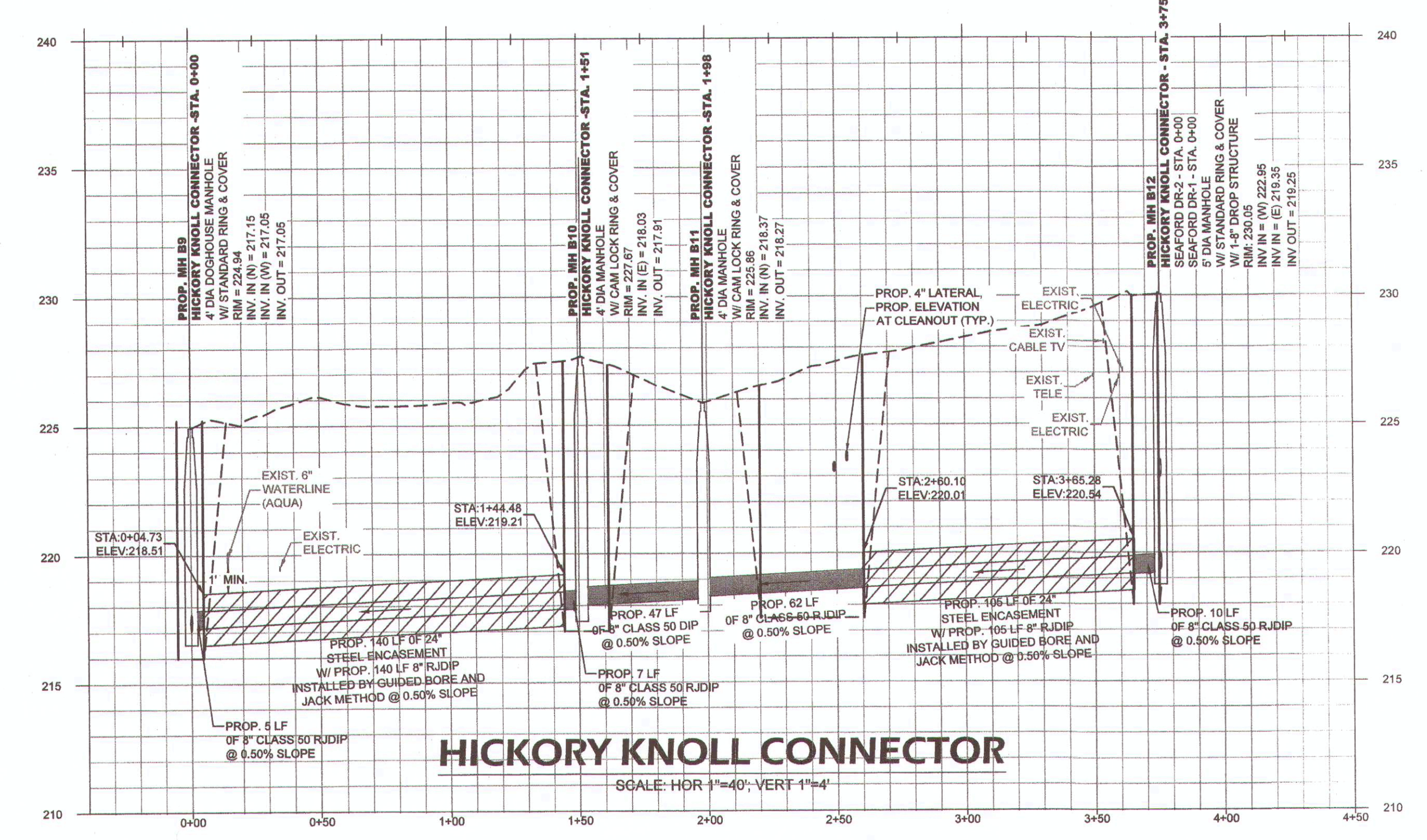
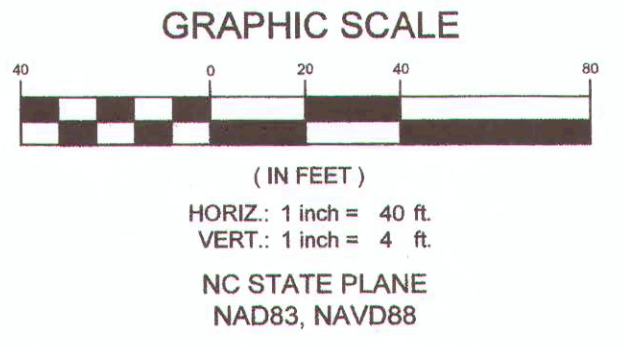
PROP. EASEMENT	PROP. TEMPORARY CONSTRUCTION EASEMENT	WATER METER
PROP. SEWER, CLEAN OUT & MANHOLE	PROP. SAFETY FENCE	IRRIGATION VALVE
PROP. STORM DRAINAGE	SOIL BORING LOCATION	ELECTRIC TRANSFORMER
PROP. WATER LINE & METER	SEE GEOTECHNICAL REPORT	TELEPHONE PEDESTAL
SANITARY SEWER LINE & MANHOLE	PROP. REVERSE PLUMBING	TELEVISION PEDESTAL
WATER LINE & VALVE	PROP. BACKWATER VALVE	DRAINAGE MANHOLE
UNDERGROUND GAS (APPROX. LOCATION)	PROP. GRINDER PUMP	FIRE HYDRANT
COMMUNICATION LINE (APPROX. LOCATION)	APPROX EXIST SEPTIC TANK	MAILBOX
UNDERGROUND ELECTRIC	ELECTRIC PEDESTAL	LIGHT POLE
UNDERGROUND TELEPHONE	CONCRETE MONUMENT	POST LAMP
UNDERGROUND FIBER OPTIC LINE	IRON PIPE FOUND	BUSH SIGN
UNDERGROUND TELEVISION CABLE LINE		

GENERAL NOTE:

- CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE THE PROPOSED SEWER LATERAL INSTALLATION WITH THE EXISTING UTILITIES. CONTRACTOR SHALL USE PWC STANDARD DETAIL S.12 SEWER SERVICE LATERAL UTILITY CONFLICT SEPARATION REQUIREMENTS ONLY WHEN APPROVED BY PWC PROJECT COORDINATOR.
- CONTRACTOR SHALL INSTALL NEW FENCE GATE (PER PLANS) CENTERED OVER THE EXISTING FENCE SECTION OF PERMANENT UTILITY EASEMENT (APPROX. 20 FEET IN WIDTH). THE INSTALLATION OF THE NEW GATE SHALL BE A SEPARATE PAYMENT ITEM. FENCE REMOVAL AND REPLACEMENT SHALL BE CONSIDERED INCIDENTAL TO THE SEWER MAIN INSTALLATION AND NO SEPARATE PAYMENT SHALL BE MADE.
- THE EXISTING 6" WATER MAIN AND VALVE ON SHADY KNOLL LANE IN CONFLICT WITH THE PROPOSED BORE PIT ARE TO BE RELOCATED TO THE EAST SIDE OF THE EXISTING MANHOLE. THE PROPOSED WATER MAIN SHALL MAINTAIN A MINIMUM 10' LATERAL SEPARATION FROM ALL PROPOSED AND EXISTING MANHOLES AND SHALL MAINTAIN A MINIMUM VERTICAL SEPARATION OF 18" WITH THE WATER MAIN CROSSING OVER THE SEWER MAIN. CONTRACTOR SHALL VERIFY THE SIZE OF THE EXISTING WATER MAIN AND SHALL PERFORM ALL WORK IN ACCORDANCE WITH AQUA STANDARDS.

SEPTIC TANK NOTE:

- CONTRACTOR SHALL REPAIR ANY DAMAGE TO SEPTIC TANK AND/OR DRAIN FIELD, TO EXISTING OR BETTER CONDITION IN ACCORDANCE WITH ALL LOCAL AND STATE REGULATIONS. IMMEDIATELY UPON OCCURRENCE OF DAMAGE DURING CONSTRUCTION OF SEWER IMPROVEMENTS, CONTRACTOR SHALL PUMP AND HAUL SEPTIC CONTENTS AS NECESSARY DURING THE INTERIM BETWEEN SEPTIC SYSTEM DAMAGE AND REPAIR. NO SEPARATE PAYMENT.



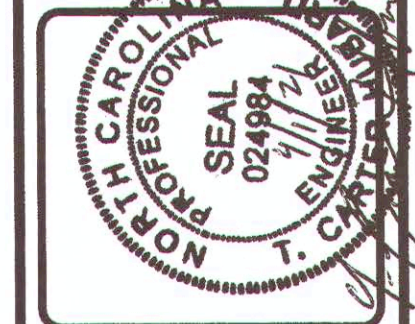
PWC	FAYETTEVILLE PUBLIC WORKS COMMISSION
PHASE V ANNEXATION, VILLAGE HELLS AND KINGS MILL SUBDIVISIONS AREA 24 B-C REVISION 1	
DRAWN BY: W.K.D.	WO #: S-200906
ENG TECH: G. Smith	WO #: N/A
APPROVED BY: [Signature]	PERMIT #: N/A
DATE: 9-10-2011	PERMIT #: PUX 1021-9005
SCALE: 1" = 40'	DS-15412
PROJ#: 1900000083	# OF SHEETS: 5

PWC DWG # DS-15412

DATE:	2/5/2021
REVISIONS:	1. WATER MAIN RELOCATION AND NOTE
BY:	[Signature]
DATE:	2/25/21

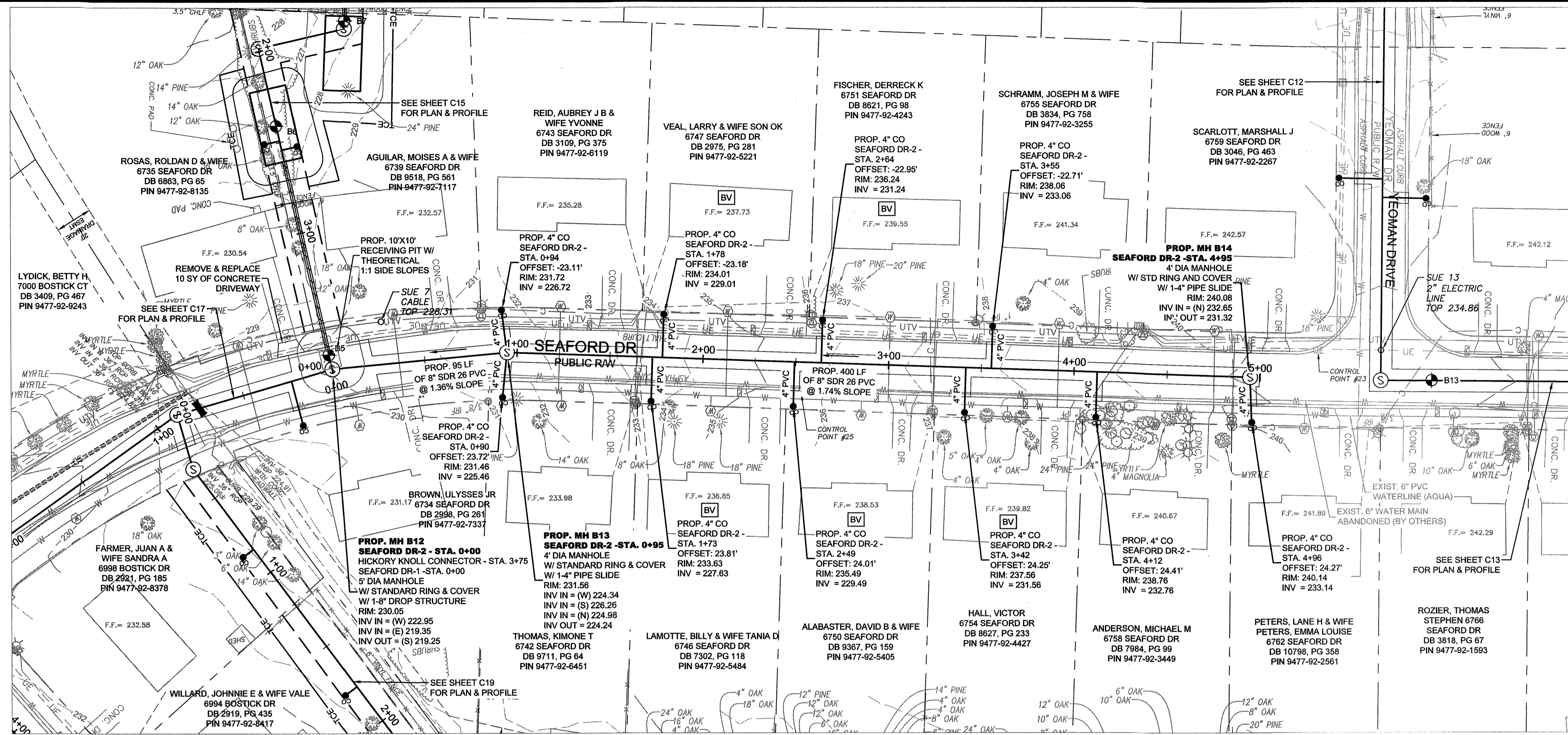
DATE: 2/5/2021
 SURVEYED BY: STEWART
 DRAWN BY: AMH/DK
 CHECKED BY: TCH
 SCALE: 1"=40'
 SHEET # 14

W.K. DICKSON
 COMMUNITY INFORMATION CONSULTANTS
 720 Corporate Center Drive
 Raleigh, NC 27603
 (919) 782-0800
 www.wkdickson.com



HICKORY KNOLL COLLECTOR
 ANNEXATION PHASE V, AREA 24, SECTIONS B & C
 FAYETTEVILLE, NORTH CAROLINA

FAYETTEVILLE PUBLIC WORKS COMMISSION
PWC WATER RESOURCES ENGINEERING
 P.A. Box 1898, Fayetteville, NC 28302
 985 Old Wilmington Road, Fayetteville, NC 28301



LEGEND

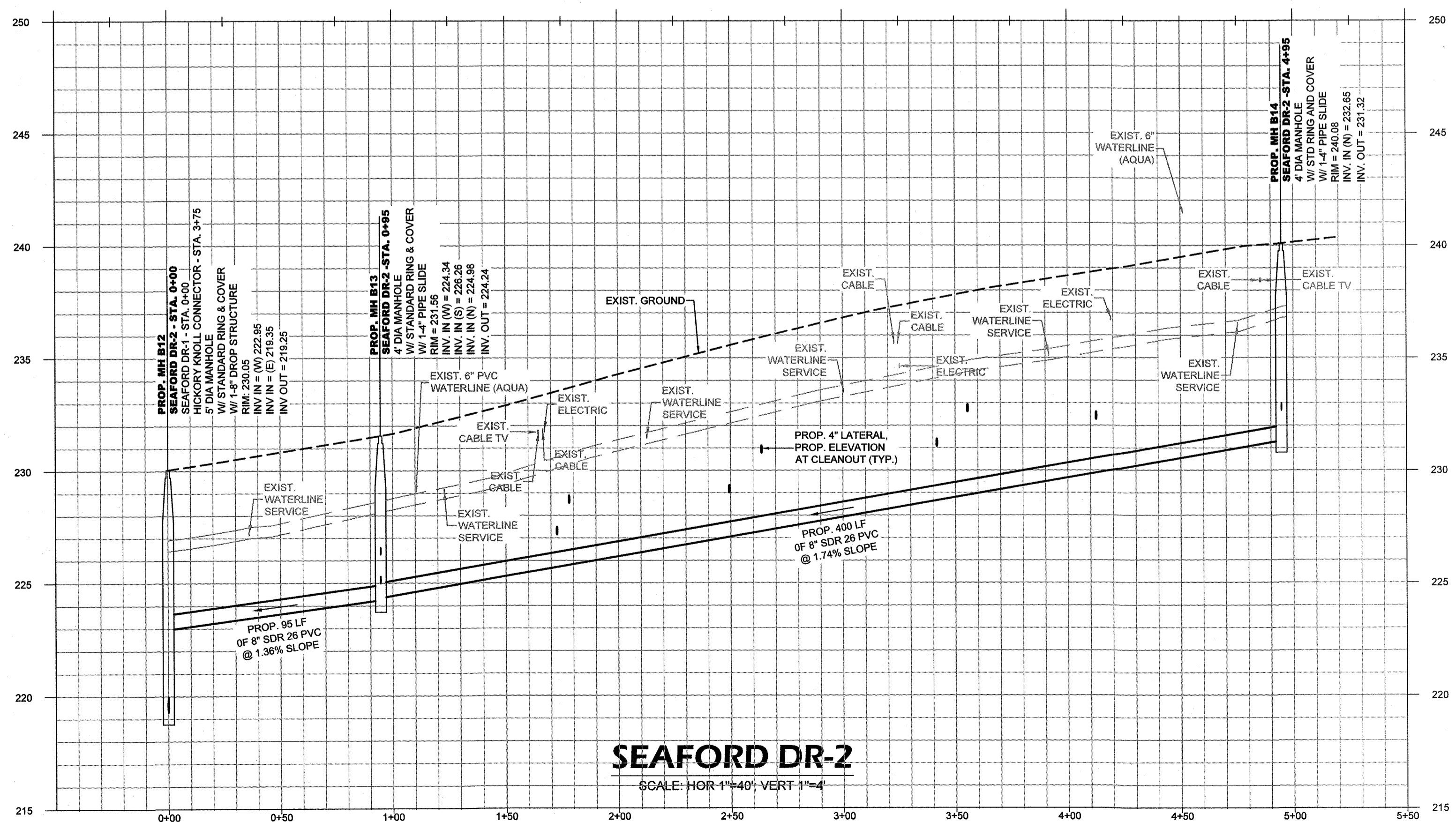
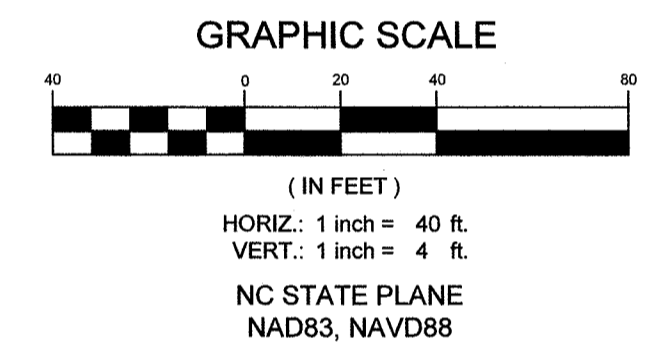
---	PROP. EASEMENT	---	PROP. TEMPORARY CONSTRUCTION EASEMENT	⊙	WATER METER
---	PROP. SEWER, CLEAN OUT & MANHOLE	---	PROP. SAFETY FENCE	⊕	IRRIGATION VALVE
---	PROP. STORM DRAINAGE	---	SOIL BORING LOCATION	⊕	ELECTRIC TRANSFORMER
---	PROP. WATER LINE & METER	---	SEE GEOTECHNICAL REPORT	⊕	TELEPHONE PEDESTAL
---	SANITARY SEWER LINE & MANHOLE	---	PROP. REVERSE PLUMBING	⊕	TELEVISION PEDESTAL
---	WATER LINE & VALVE	---	PROP. BACKWATER VALVE	⊕	DRAINAGE MANHOLE
---	UNDERGROUND GAS (APPROX. LOCATION)	---	PROP. GRINDER PUMP	⊕	FIRE HYDRANT
---	COMMUNICATION LINE (APPROX. LOCATION)	---	APPROX EXIST SEPTIC TANK	⊕	MAILBOX
---	UNDERGROUND TELEPHONE	---	ELECTRIC PEDESTAL	⊕	LIGHT POLE
---	UNDERGROUND FIBER OPTIC LINE	---	CONCRETE MONUMENT	⊕	POST
---	UNDERGROUND TELEVISION CABLE LINE	---	IRON PIPE FOUND	⊕	LAMP
				⊕	BUSH
				⊕	SIGN

GENERAL NOTE:

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SEAFORD DR-2
SCALE: HOR 1"=40' VERT 1"=4'

PWC DWG # DS-15412

DATE: 2/5/2021	REVISIONS:
SURVEY/GIS BY: STEWART	
DRAWN BY: AMH/DK	
CHECKED BY: TCH	
SCALE: VERT: 1"=4'	
HORIZ: 1"=40'	
SHEET # 6/6	

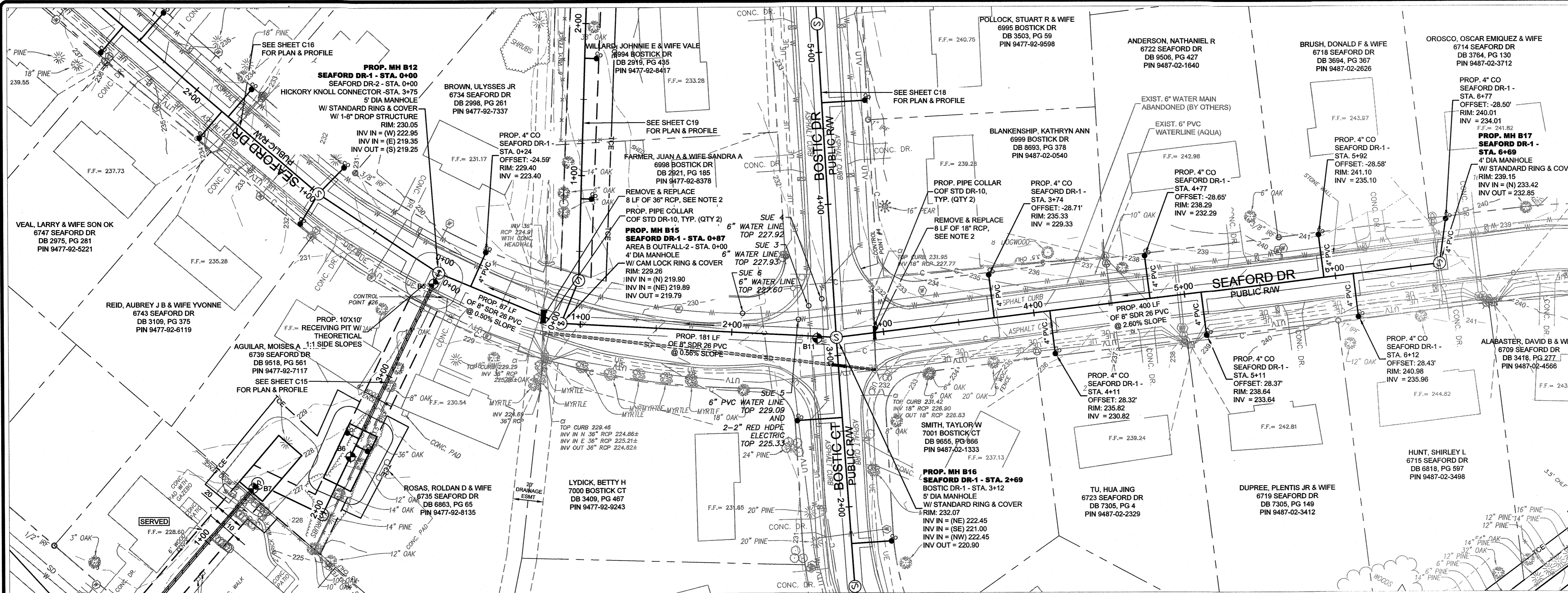
DICKSON
COMMUNITY INFORMATION CONSULTANTS
170 Corporate Center Drive
Fayetteville, NC 28302
Tel: 919.782.8822
www.dicksoninc.com

PROFESSIONAL SEAL
C. CARROLL
024884

SEAFORD DR 2
ANNEXATION PHASE V, AREA 24, SECTIONS B & C
FAYETTEVILLE, NORTH CAROLINA

FAYETTEVILLE COMMISSION
PUBLIC WORKS
WATER RESOURCES ENGINEERING
P.O. Box 1088, Fayetteville, NC 28302
855 Old Wilmington Road, Fayetteville, NC 28301
a member of Vector Utilities

PWC DWG # DS-15412
20190126.00.RA



LEGEND

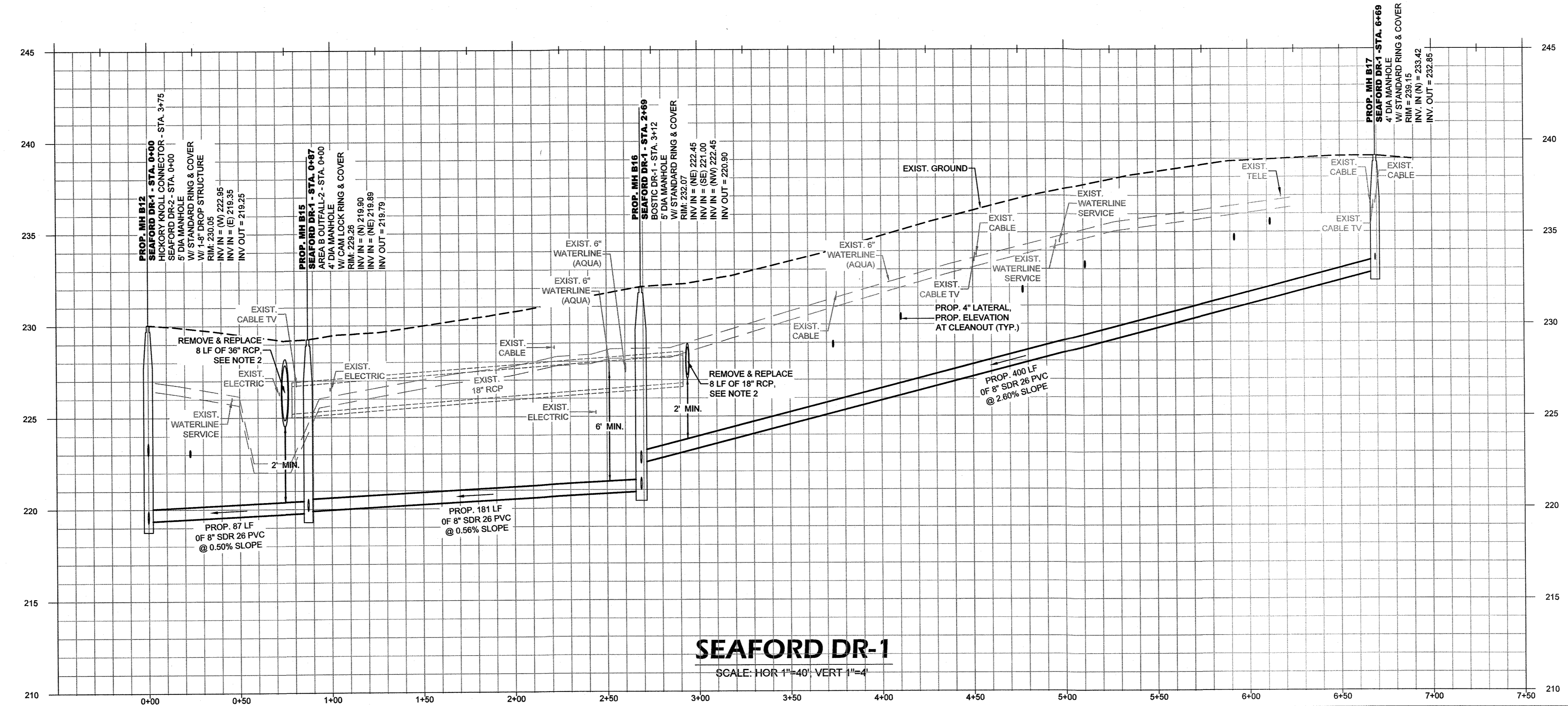
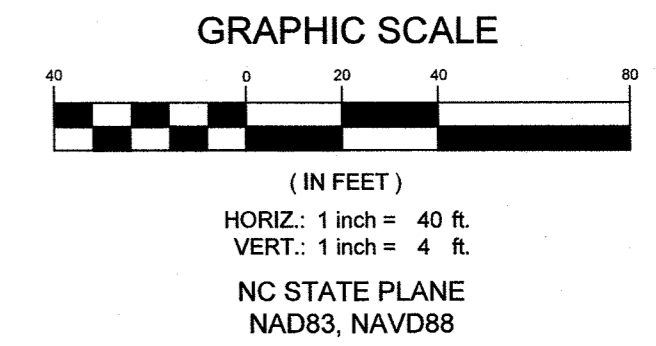
--- PROP. EASEMENT	--- PROP. TEMPORARY CONSTRUCTION EASEMENT	○ WATER METER
--- PROP. SEWER, CLEAN OUT & MANHOLE	--- PROP. SAFETY FENCE	□ IRRIGATION VALVE
--- PROP. STORM DRAINAGE	--- SOIL BORING LOCATION	□ TELEPHONE PEDESTAL
--- SANITARY SEWER LINE & MANHOLE	--- SEE GEOTECHNICAL REPORT	□ TELEVISION PEDESTAL REPORT
--- WATER LINE & VALVE	--- PROP. REVERSE PLUMBING	○ DRAINAGE MANHOLE
--- G UNDERGROUND GAS (APPROX. LOCATION)	--- PROP. BACKWATER VALVE	○ FIRE HYDRANT
--- COM COMMUNICATION LINE (APPROX. LOCATION)	--- PROP. GRINDER PUMP	○ MAILBOX
--- UE UNDERGROUND ELECTRIC	--- APPROX EXIST SEPTIC TANK	○ LIGHT POLE
--- UT UNDERGROUND TELEPHONE	--- CONCRETE MONUMENT	○ DROP INLET
--- FO UNDERGROUND FIBER OPTIC LINE	--- IRON PIPE FOUND	○ FINISH FLOOR
--- TV UNDERGROUND TELEVISION CABLE LINE		○ POST
		○ LAMP
		○ BUSH
		○ SIGN

GENERAL NOTE:

- CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE THE PROPOSED SEWER LATERAL INSTALLATION WITH THE EXISTING UTILITIES. CONTRACTOR SHALL USE PWC STANDARD DETAIL S.12 SEWER SEWER LATERAL UTILITY CONFLICT SEPARATION REQUIREMENTS ONLY WHEN APPROVED BY PWC PROJECT COORDINATOR.
- CONTRACTOR SHALL CENTER 18" AND 36" RCP OVER SEWER MAIN AND CONNECT TO EXISTING RCP WITH CONCRETE PIPE COLLARS. SEE COF STANDARD DETAIL DR-19.

SEPTIC TANK NOTE:

- CONTRACTOR SHALL REPAIR ANY DAMAGE TO SEPTIC TANK AND/OR DRAIN FIELD, TO EXISTING OR BETTER CONDITION IN ACCORDANCE WITH ALL LOCAL AND STATE REGULATIONS, IMMEDIATELY UPON OCCURRENCE OF DAMAGE DURING CONSTRUCTION OF SEWER IMPROVEMENTS. CONTRACTOR SHALL PUMP AND HAUL SEPTIC CONTENTS AS NECESSARY DURING THE INTERIM BETWEEN SEPTIC SYSTEM DAMAGE AND REPAIR. NO SEPARATE PAYMENT.



SEAFORD DR-1
SCALE: HOR 1"=40' VERT 1"=4'

PWC DWG # DS-15412

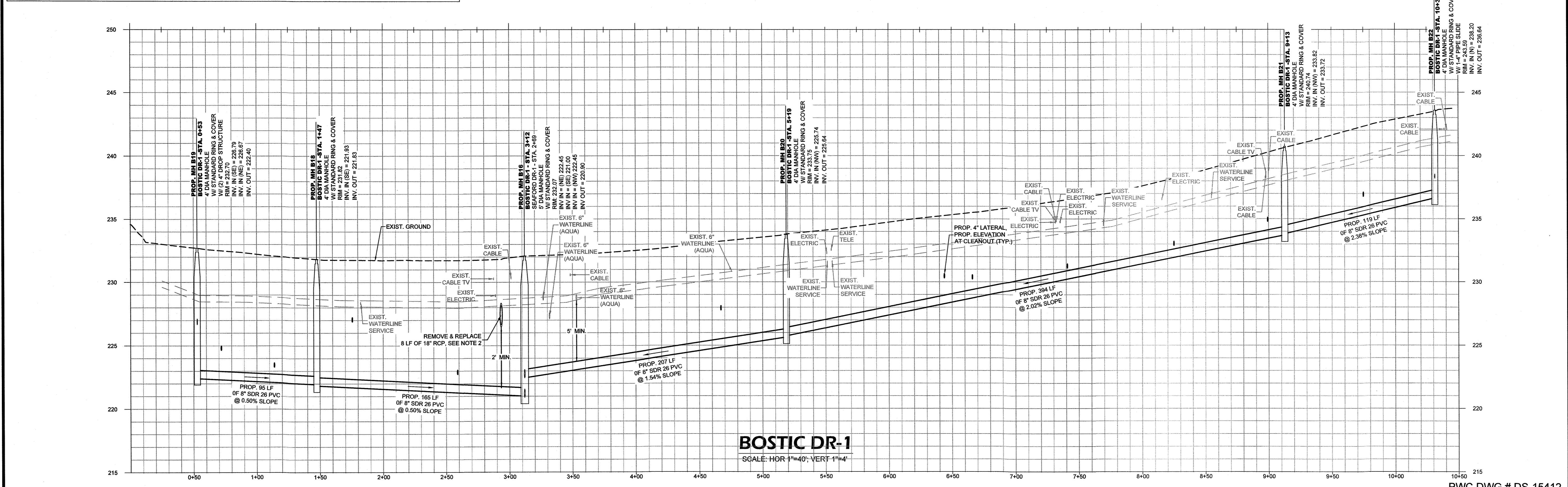
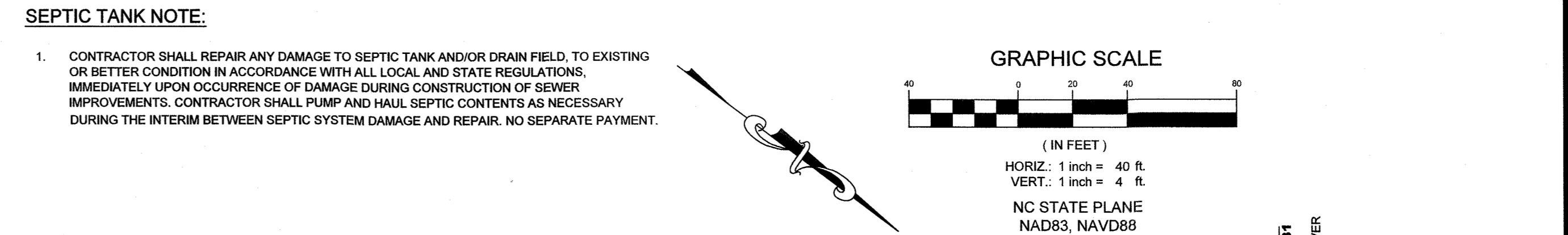
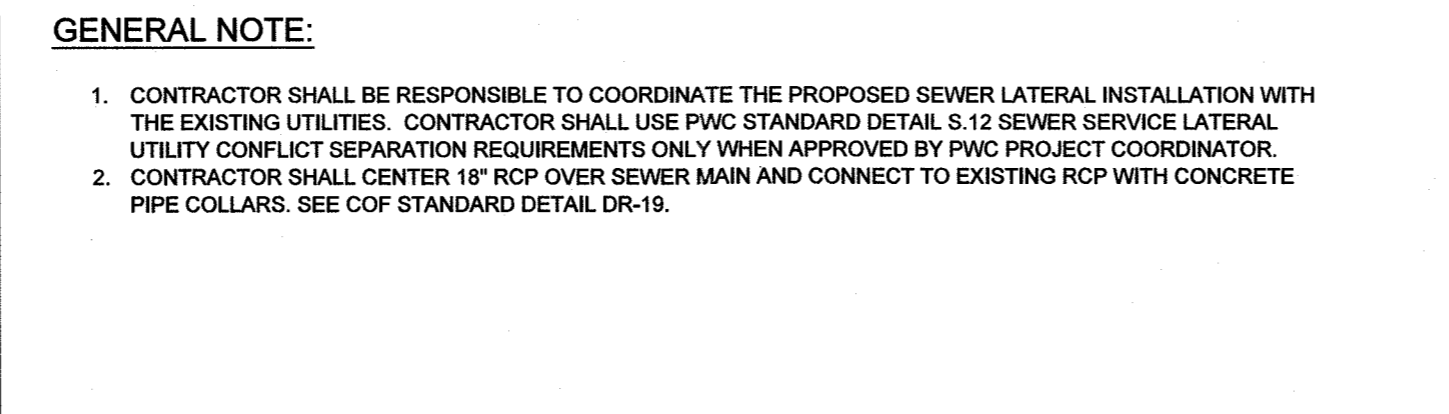
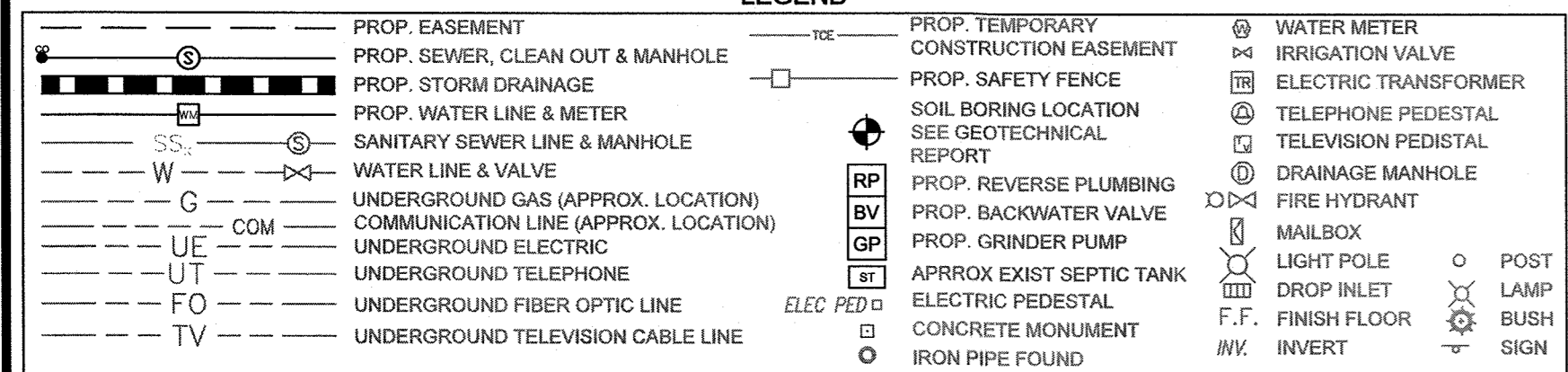
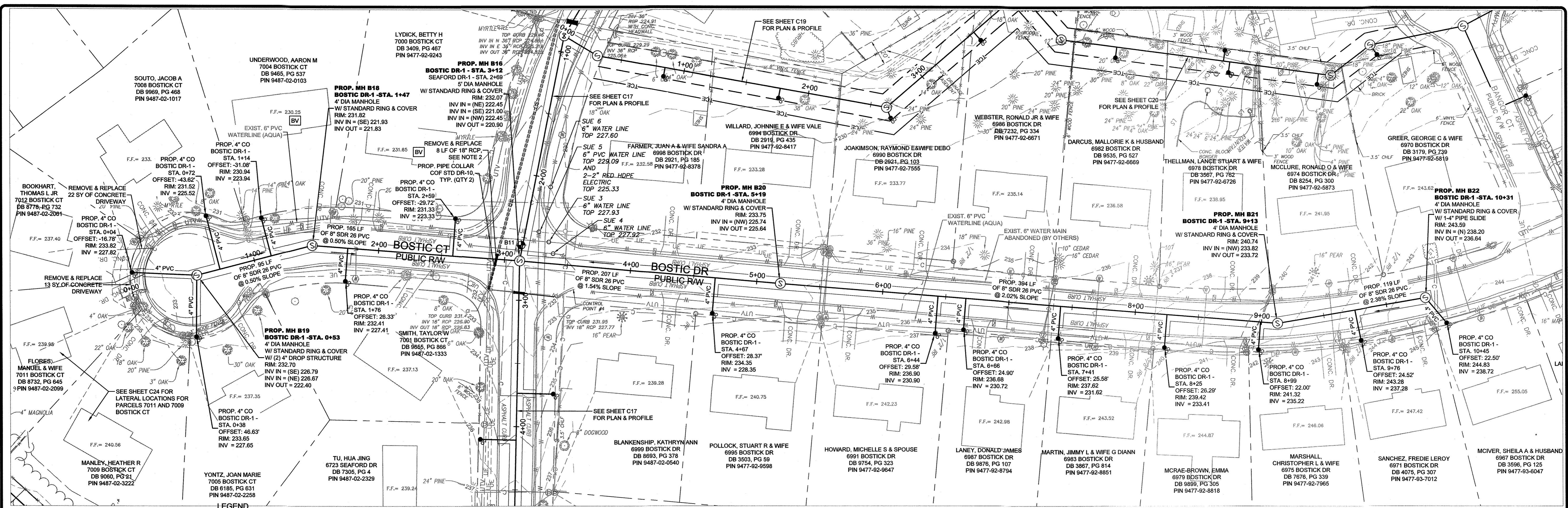
DATE: 2/5/2021
 SURVEYED BY: STEWART
 DRAWN BY: ANH/DK
 CHECKED BY: TCH
 SCALE: HOR: 1"=40' VERT: 1"=4'

PWC
 PUBLIC WORKS COMMISSION
 WATER RESOURCES ENGINEERING
 P.O. Box 1008, Fayetteville, NC 28405
 915-486-0000 (Fayetteville) / 919-437-5000 (Raleigh)

SEAFORD DR 1
 ANNEXATION PHASE V, AREA 24, SECTIONS B & C
 FAYETTEVILLE, NORTH CAROLINA

FAYETTEVILLE
 PUBLIC WORKS COMMISSION
 WATER RESOURCES ENGINEERING
 P.O. Box 1008, Fayetteville, NC 28405
 915-486-0000 (Fayetteville) / 919-437-5000 (Raleigh)

SHEET # C17



BOSTIC DR-1
SCALE: HOR 1"=40'; VERT 1"=4'

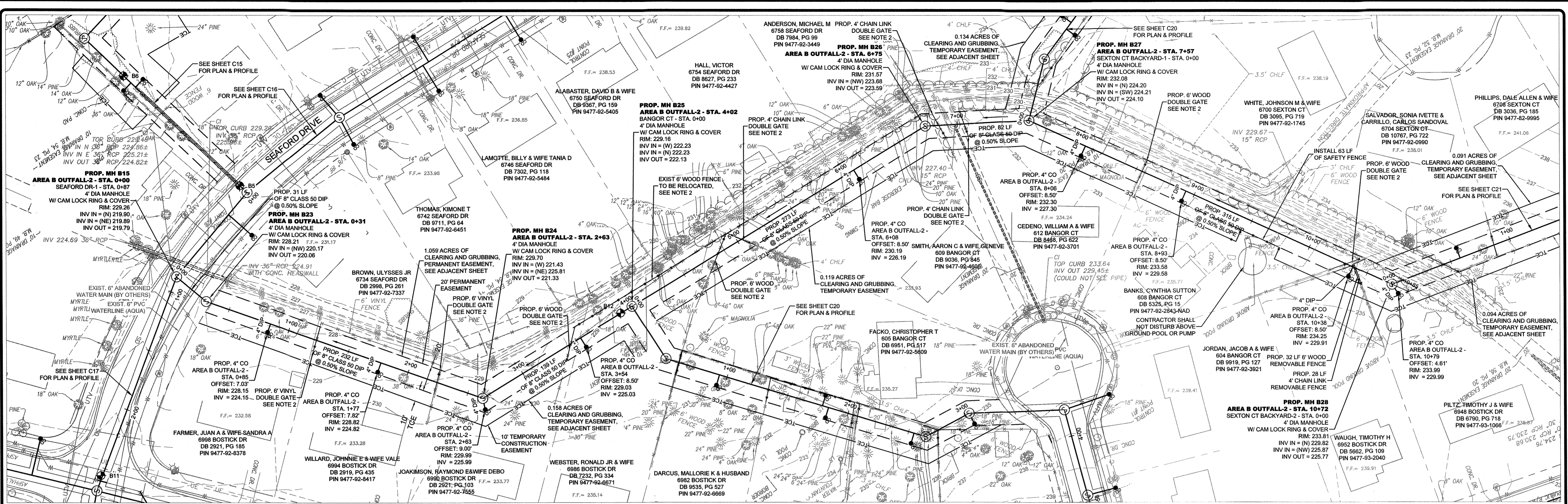
PWC DWG # DS-15412

SHEET SERIES-FINAL DESIGN - BID PLANS
SHEET # 08

DATE: 2/5/2021
SURVEYED BY: STEWART
DRAWN BY: AMH/DK
CHECKED BY: TCH
SCALE: HOR: 1"=40'
VERT: 1"=4'

BOSTIC DR 1
ANNEXATION PHASE V, AREA 24, SECTIONS B & C
FAYETTEVILLE, NORTH CAROLINA

FAYETTEVILLE
PUBLIC WORKS COMMISSION
PWC WATER RESOURCES ENGINEERING
P.O. Box 1088, Fayetteville, NC 28302
655 Old Wilmington Road, Fayetteville, NC 28301



LEGEND

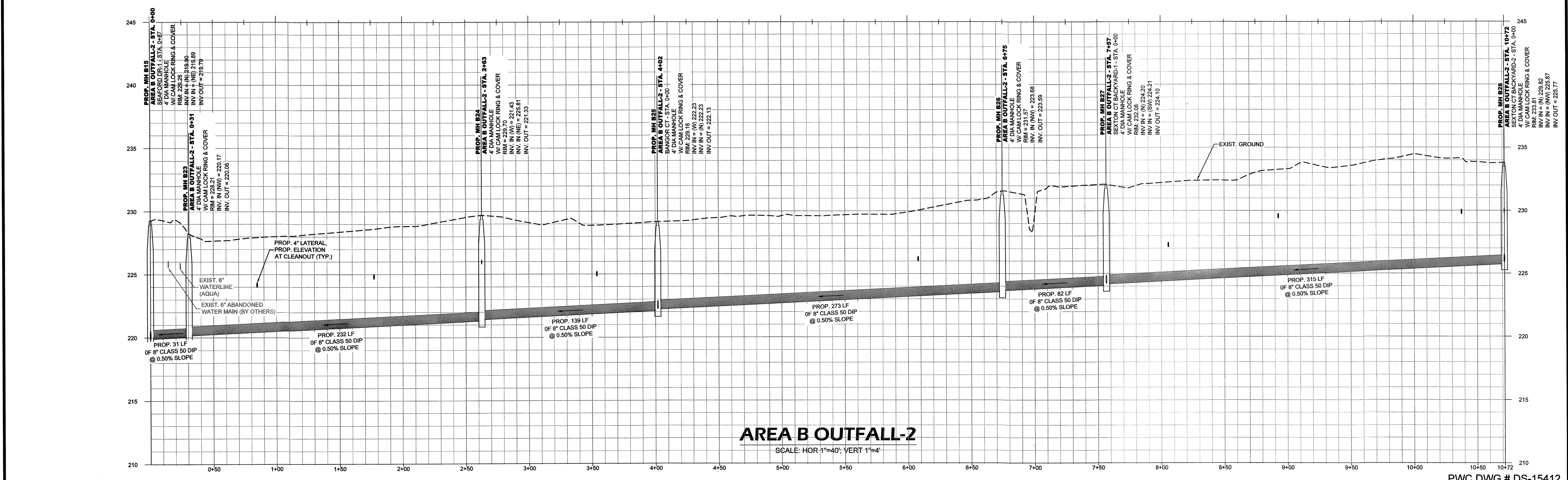
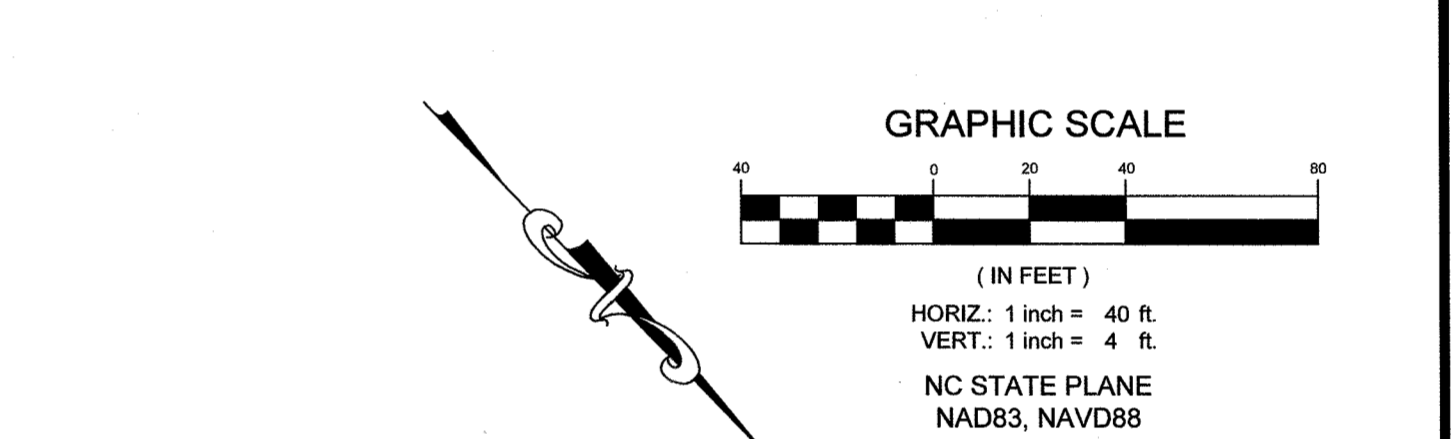
PROPOSED EASEMENT	PROPOSED TEMPORARY CONSTRUCTION EASEMENT	WATER METER
PROPOSED SEWER, CLEAN OUT & MANHOLE	PROPOSED SAFETY FENCE	IRRIGATION VALVE
PROPOSED STORM DRAINAGE	PROPOSED SOIL BORING LOCATION	ELECTRIC TRANSFORMER
PROPOSED WATER LINE & METER	REPORT SEE GEOTECHNICAL REPORT	TELEPHONE PEDESTAL
SANITARY SEWER LINE & MANHOLE	PROPOSED REVERSE PLUMBING	DRAINAGE MANHOLE
WATER LINE & VALVE	PROPOSED BACKWATER VALVE	FIRE HYDRANT
UNDERGROUND GAS (APPROX. LOCATION)	PROPOSED GRINDER PUMP	MAILBOX
COMMUNICATION LINE (APPROX. LOCATION)	APPROX EXIST SEPTIC TANK	LIGHT POLE
UNDERGROUND ELECTRIC	ELECTRIC PEDESTAL	DROP INLET
UNDERGROUND TELEPHONE	CONCRETE MONUMENT	LAMP
UNDERGROUND FIBER OPTIC LINE	IRON PIPE FOUND	BUSH
UNDERGROUND TELEVISION CABLE LINE		F.F. FINISH FLOOR
		INV. INVERT
		SIGN

GENERAL NOTE:

- CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE THE PROPOSED SEWER LATERAL INSTALLATION WITH THE EXISTING UTILITIES. CONTRACTOR SHALL USE PWC STANDARD DETAIL S.12 SEWER SERVICE LATERAL UTILITY CONFLICT SEPARATION REQUIREMENTS ONLY WHEN APPROVED BY PWC PROJECT COORDINATOR.
- CONTRACTOR SHALL INSTALL NEW FENCE GATE (PER PLANS) CENTERED OVER THE EXISTING FENCE SECTION OF PERMANENT UTILITY EASEMENT APPROX. 30 FEET IN WIDTH. THE INSTALLATION OF THE NEW GATE SHALL BE A SEPARATE PAYMENT ITEM. FENCE REMOVAL AND REPLACEMENT SHALL BE CONSIDERED INCIDENTAL TO THE SEWER MAIN INSTALLATION AND NO SEPARATE PAYMENT SHALL BE MADE.

SEPTIC TANK NOTE:

- CONTRACTOR SHALL REPAIR ANY DAMAGE TO SEPTIC TANK AND/OR DRAIN FIELD, TO EXISTING OR BETTER CONDITION IN ACCORDANCE WITH ALL LOCAL AND STATE REGULATIONS, IMMEDIATELY UPON OCCURRENCE OF DAMAGE DURING CONSTRUCTION OF SEWER IMPROVEMENTS. CONTRACTOR SHALL PUMP AND HULL SEPTIC CONTENTS AS NECESSARY DURING THE INTERIM BETWEEN SEPTIC SYSTEM DAMAGE AND REPAIR. NO SEPARATE PAYMENT.



AREA B OUTFALL-2

SCALE: HOR 1"=40'; VERT 1"=4'

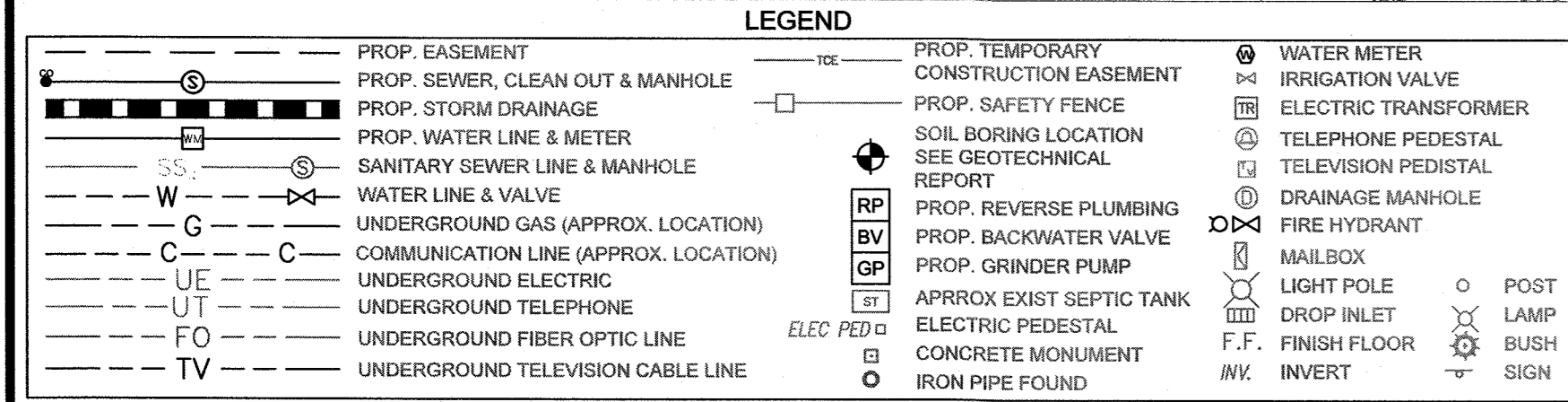
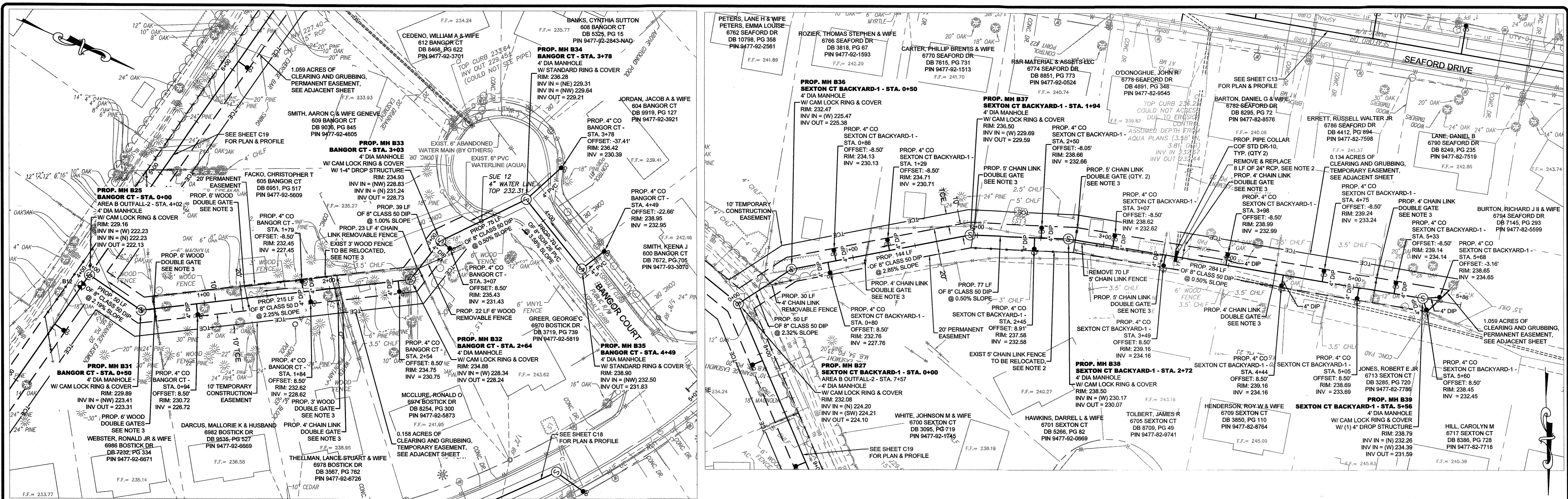
PWC DWG # DS-15412

DATE: 2/5/2021
 SURVEYED BY: STEWART
 DRAWN BY: AMH/DK
 CHECKED BY: TCH
 SCALE: HORIZ: 1"=40'
 VERT: 1"=4'

PWC
 PUBLIC WORKS COMMISSION
 WATER RESOURCES ENGINEERING
 P.O. Box 1084 Fayetteville, NC 28402
 955 Old Wilmington Road, Fayetteville, NC 28301

AREA B OUTFALL 2
 ANNEXATION PHASE V, AREA 24, SECTIONS B & C
 FAYETTEVILLE, NORTH CAROLINA

SHEET # 619

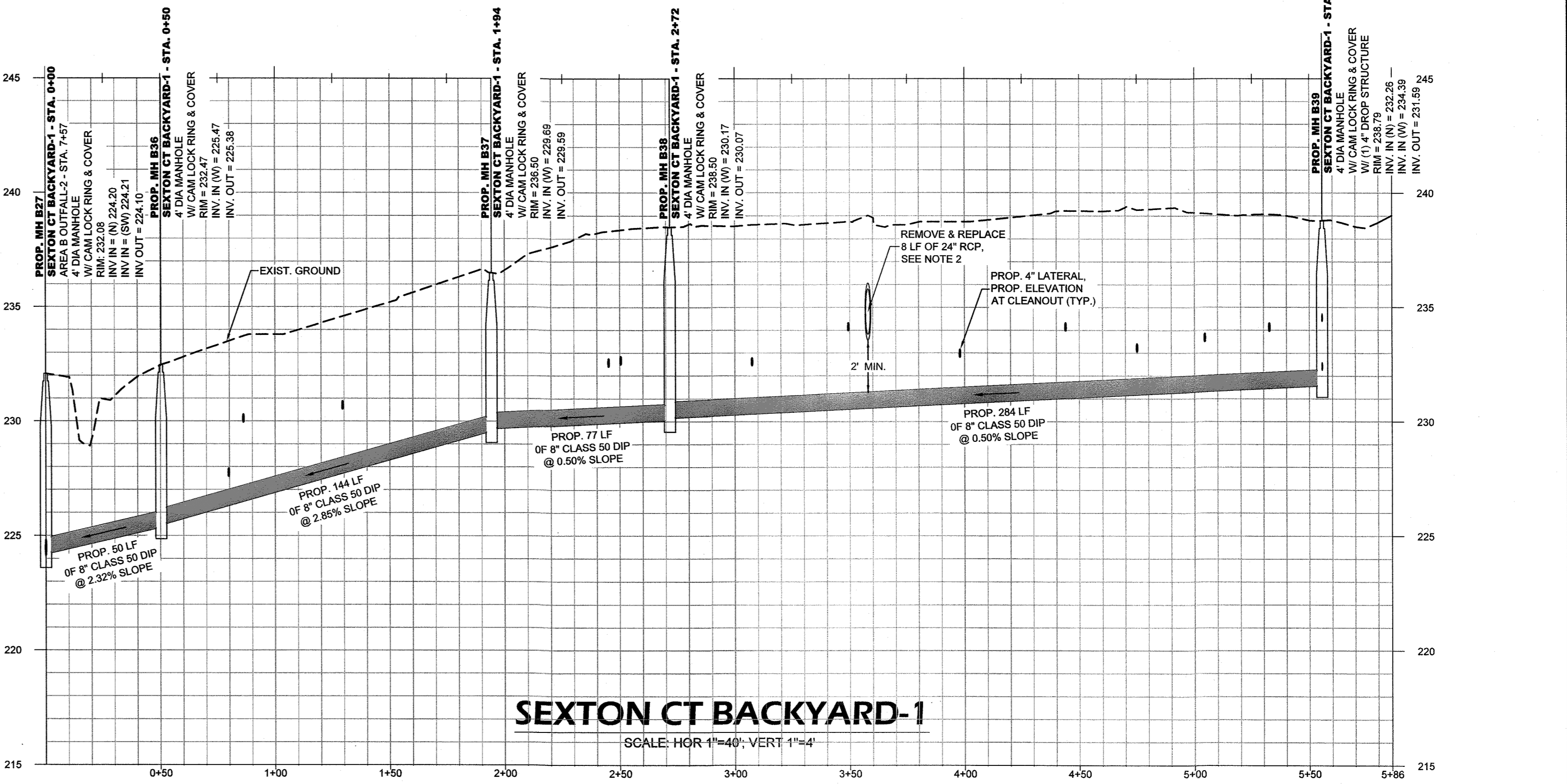
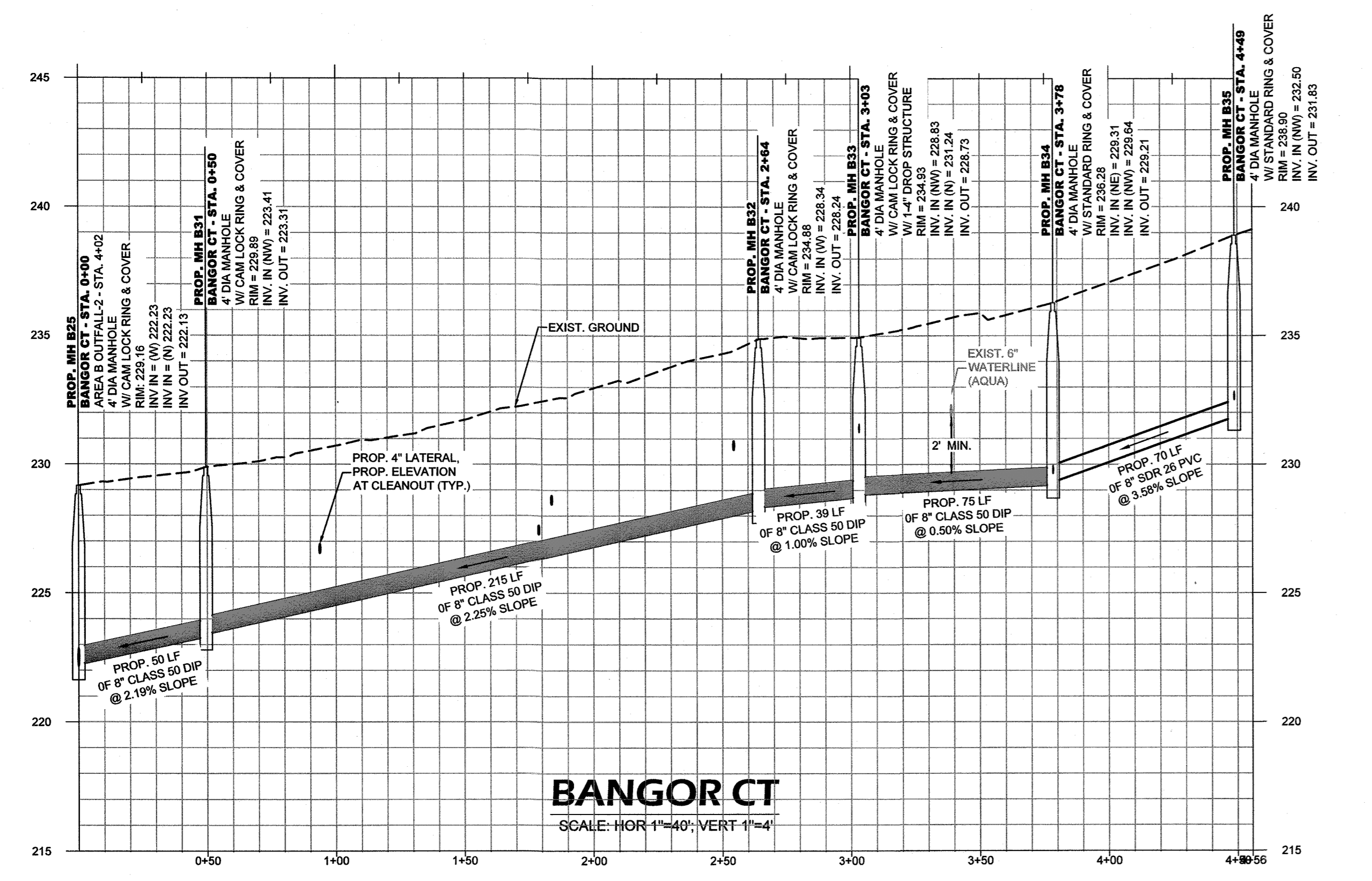
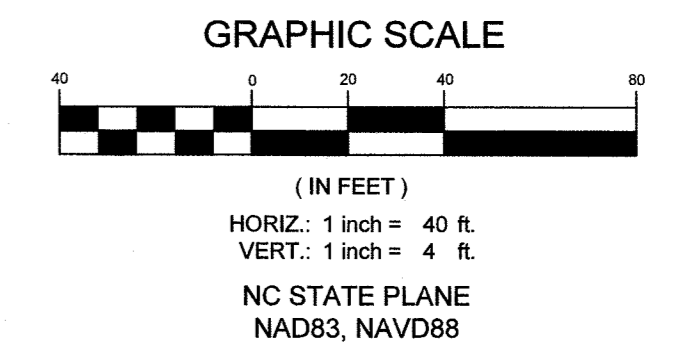


GENERAL NOTE:

- CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE THE PROPOSED SEWER LATERAL INSTALLATION WITH THE EXISTING UTILITIES. CONTRACTOR SHALL USE PWC STANDARD DETAIL S.12 SEWER SERVICE LATERAL UTILITY CONFLICT SEPARATION REQUIREMENTS ONLY WHEN APPROVED BY PWC PROJECT COORDINATOR.
- CONTRACTOR SHALL CENTER 24" RCP OVER SEWER MAIN AND CONNECT TO EXISTING RCP WITH CONCRETE PIPE COLLARS. SEE COF STANDARD DETAIL DR-19.
- CONTRACTOR SHALL INSTALL NEW FENCE GATE (PER PLANS) CENTERED OVER THE EXISTING FENCE SECTION OF PERMANENT UTILITY EASEMENT (APPROX. 20 FEET IN WIDTH). THE INSTALLATION OF THE NEW GATE SHALL BE A SEPARATE PAYMENT ITEM. FENCE REMOVAL AND REPLACEMENT SHALL BE CONSIDERED INCIDENTAL TO THE SEWER MAIN INSTALLATION AND NO SEPARATE PAYMENT SHALL BE MADE.

SEPTIC TANK NOTE:

- CONTRACTOR SHALL REPAIR ANY DAMAGE TO SEPTIC TANK AND/OR DRAIN FIELD, TO EXISTING OR BETTER CONDITION IN ACCORDANCE WITH ALL LOCAL AND STATE REGULATIONS, IMMEDIATELY UPON OCCURRENCE OF DAMAGE DURING CONSTRUCTION OF SEWER IMPROVEMENTS. CONTRACTOR SHALL PUMP AND Haul SEPTIC CONTENTS AS NECESSARY DURING THE INTERIM BETWEEN SEPTIC SYSTEM DAMAGE AND REPAIR. NO SEPARATE PAYMENT.



SHEET SERIES-FINAL DESIGN - BID PLANS

DATE: 2/5/2021
 SURVEYED BY: STEWART
 DRAWN BY: AMH/DK
 CHECKED BY: TCH
 SCALE: HOR: 1"=40'
 VERT: 1"=4'

DICKSON
 TRANSPORTATION & WATER RESOURCES
 1000 W. WILSON ROAD, SUITE 200
 RAYLEIGH, NORTH CAROLINA 27607
 WWW.DICKSONCORP.COM

PORTLAND PROFESSIONAL SEAL
 02984
 2021

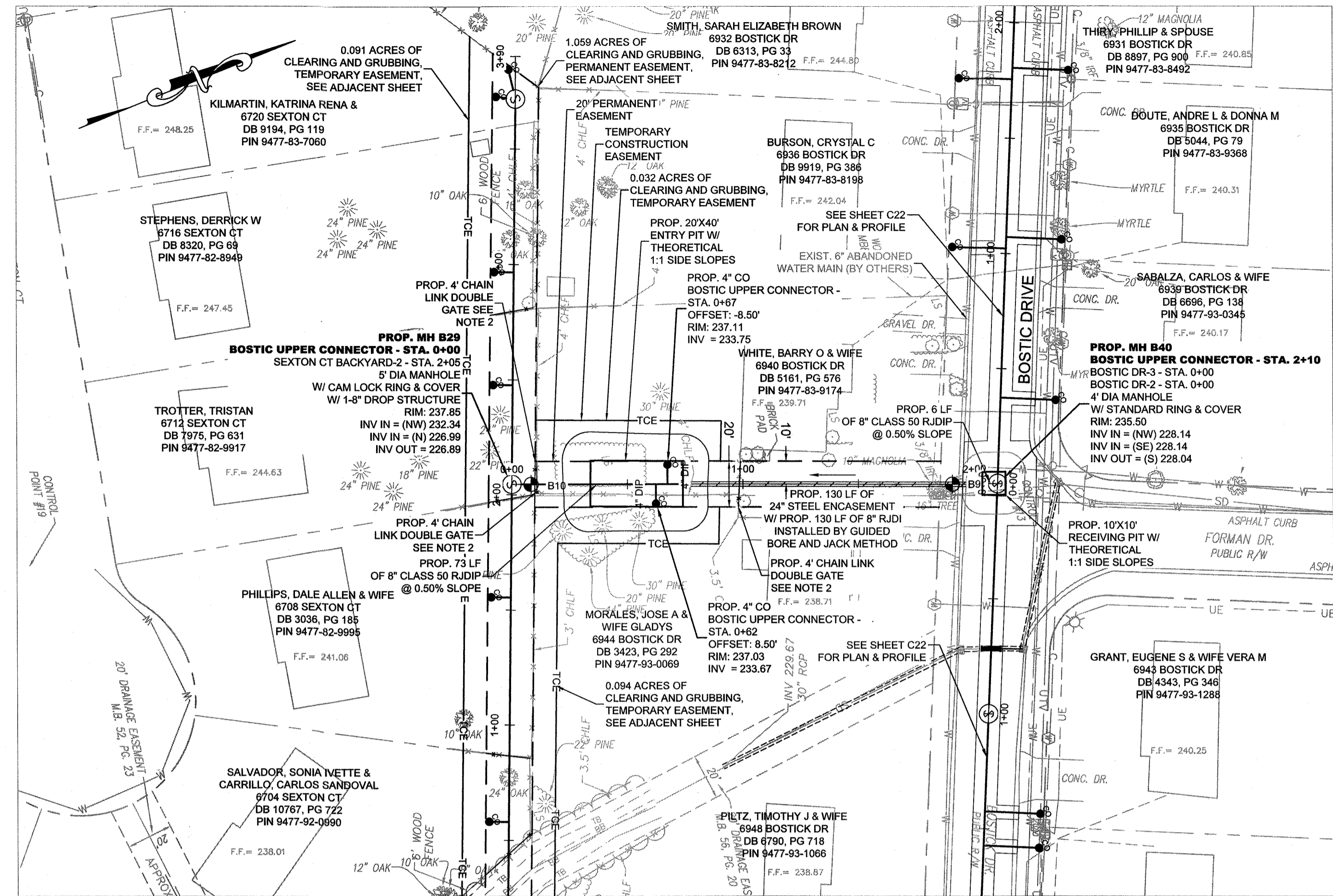
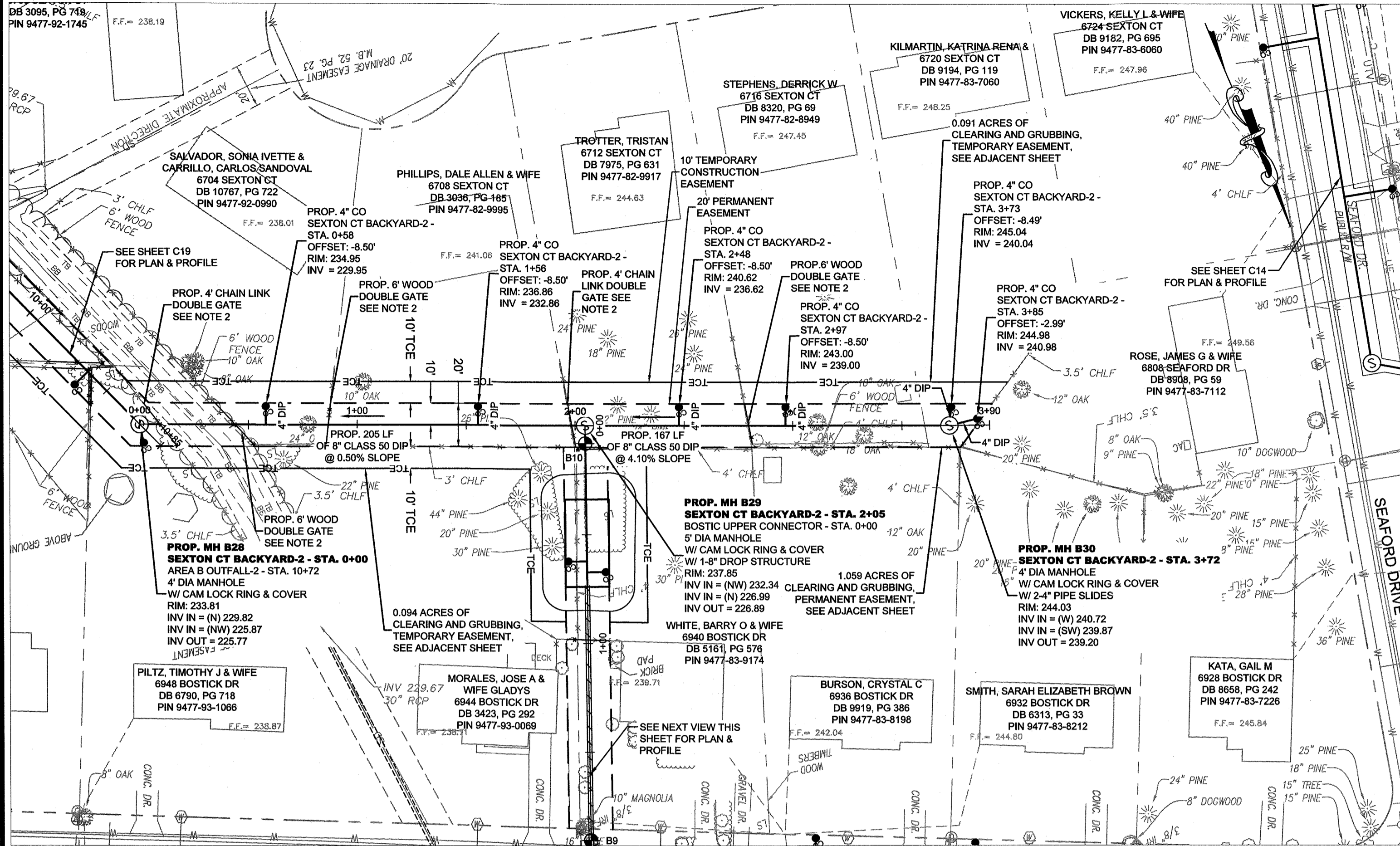
BANGOR CT AND SEXTON CT BACKYARD 1
 ANNEXATION PHASE V, AREA 24, SECTIONS B & C
 FAYETTEVILLE, NORTH CAROLINA

FAYETTEVILLE
 PUBLIC WORKS COMMISSION
PWC WATER RESOURCES ENGINEERING
 P.O. Box 1058, Fayetteville, NC 28405
 855-066-4444 (toll free), Fayetteville, NC 28401

SHEET # C20

PWC DWG # DS-15412

20190126.00.RA



LEGEND

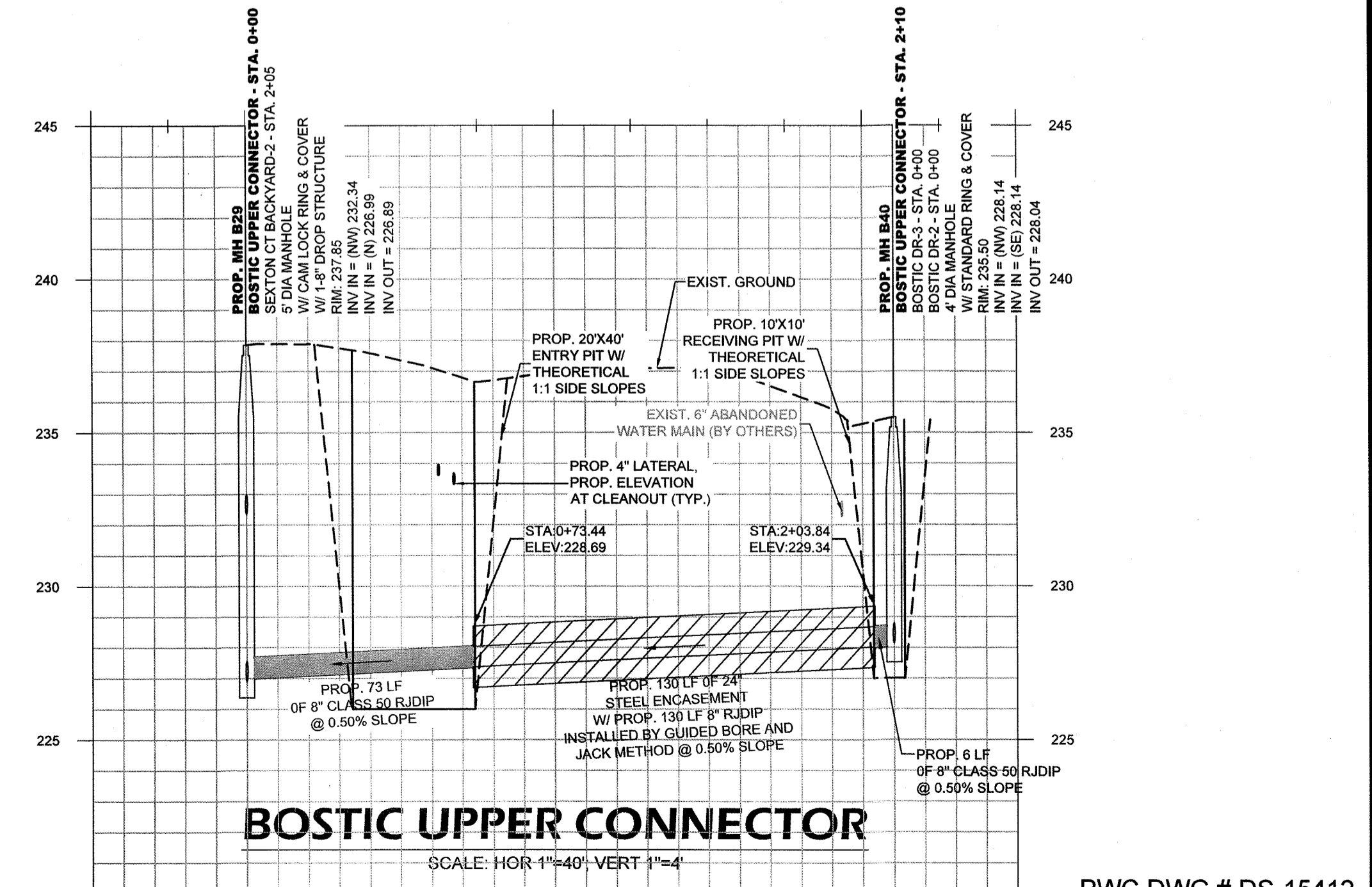
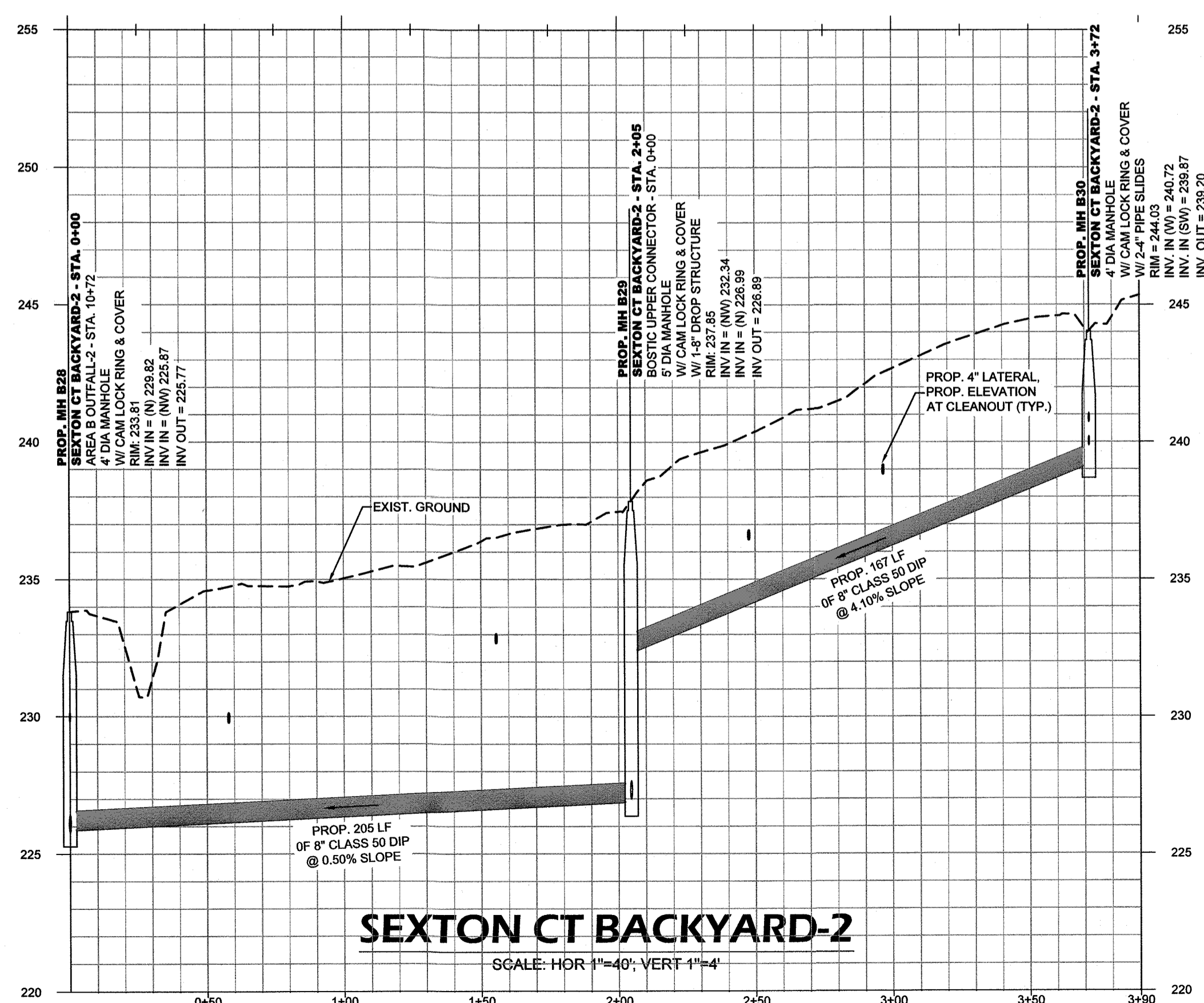
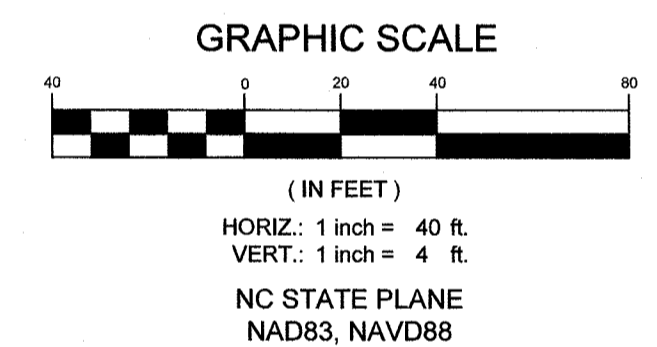
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—	PROP. SEWER, CLEAN OUT & MANHOLE	—	PROP. SAFETY FENCE	⊗	IRRIGATION VALVE
—	PROP. STORM DRAINAGE	—	PROP. BORING LOCATION	⊗	ELECTRIC TRANSFORMER
—	PROP. WATER LINE & METER	—	SEE GEOTECHNICAL REPORT	⊗	TELEPHONE PEDESTAL
—	SANITARY SEWER LINE & MANHOLE	—	PROP. REVERSE PLUMBING	⊗	TELEVISION PEDESTAL
—	WATER LINE & VALVE	—	PROP. BACKWATER VALVE	⊗	DRAINAGE MANHOLE
—	UNDERGROUND GAS (APPROX. LOCATION)	—	PROP. GRINDER PUMP	⊗	FIRE HYDRANT
—	COMMUNICATION LINE (APPROX. LOCATION)	—	APPROX EXIST SEPTIC TANK	⊗	MAILBOX
—	UNDERGROUND ELECTRIC	—	ELEC PED	⊗	LIGHT POLE
—	UNDERGROUND TELEPHONE	—	CONCRETE MONUMENT	⊗	DROP INLET
—	UNDERGROUND FIBER OPTIC LINE	—	IRON PIPE FOUND	⊗	F.F. FINISH FLOOR
—	UNDERGROUND TELEVISION CABLE LINE	—		⊗	INV. INVERT
—		—		⊗	POST LAMP
				⊗	BUSH SIGN

GENERAL NOTE:

- CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE THE PROPOSED SEWER LATERAL INSTALLATION WITH THE EXISTING UTILITIES. CONTRACTOR SHALL USE PWC STANDARD DETAIL S.12 SEWER SERVICE LATERAL UTILITY CONFLICT SEPARATION REQUIREMENTS ONLY WHEN APPROVED BY PWC PROJECT COORDINATOR.
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SEPTIC TANK NOTE:

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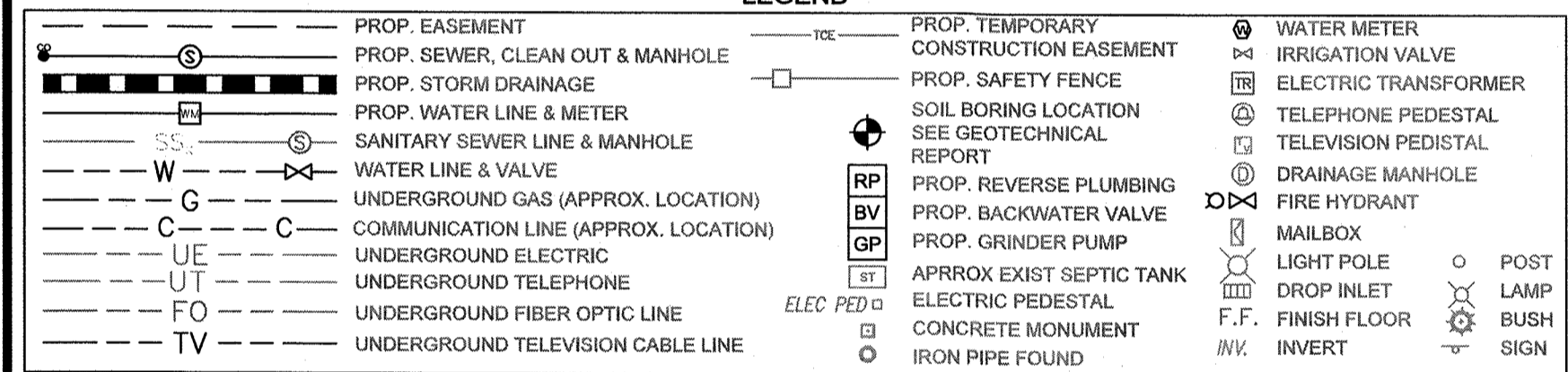
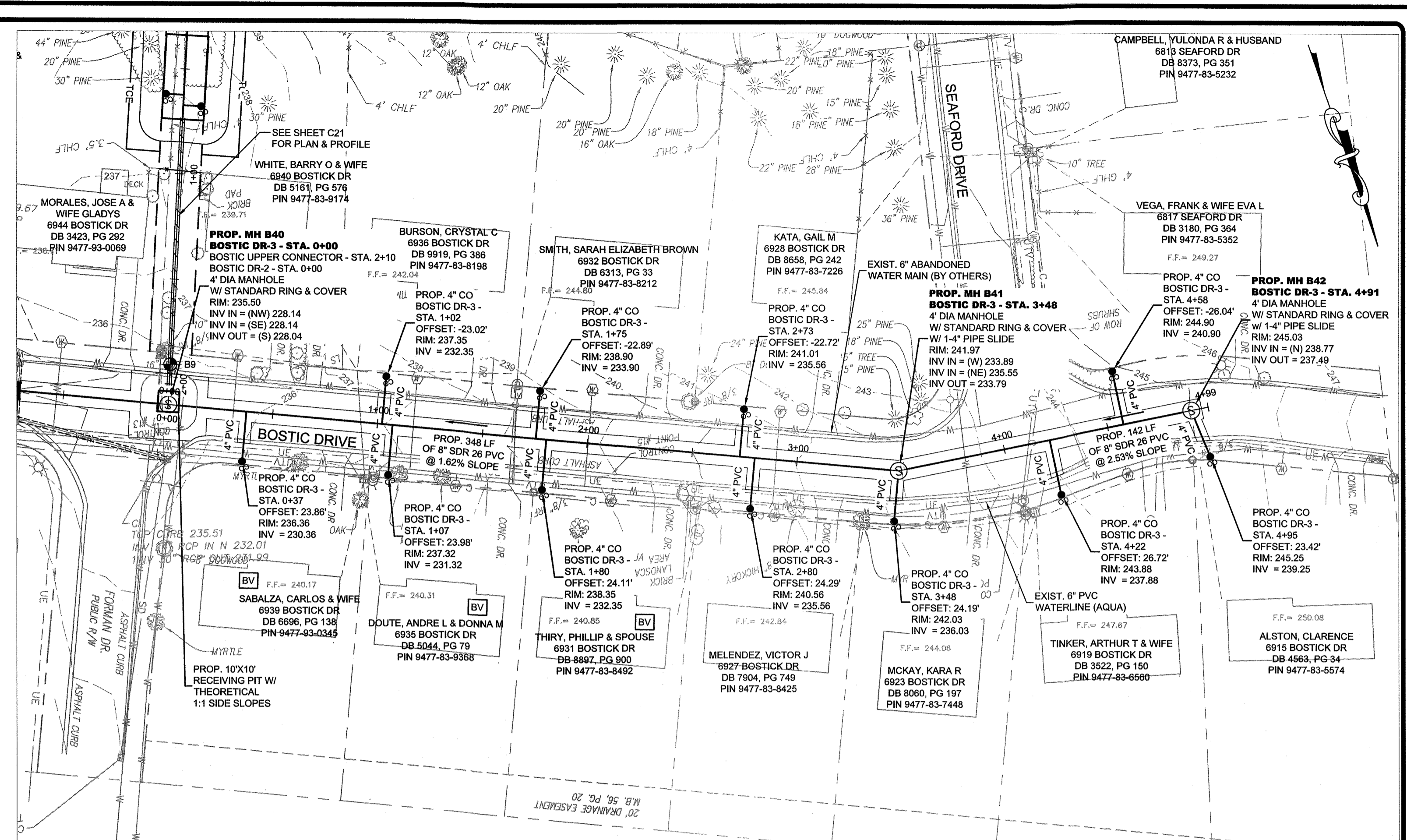
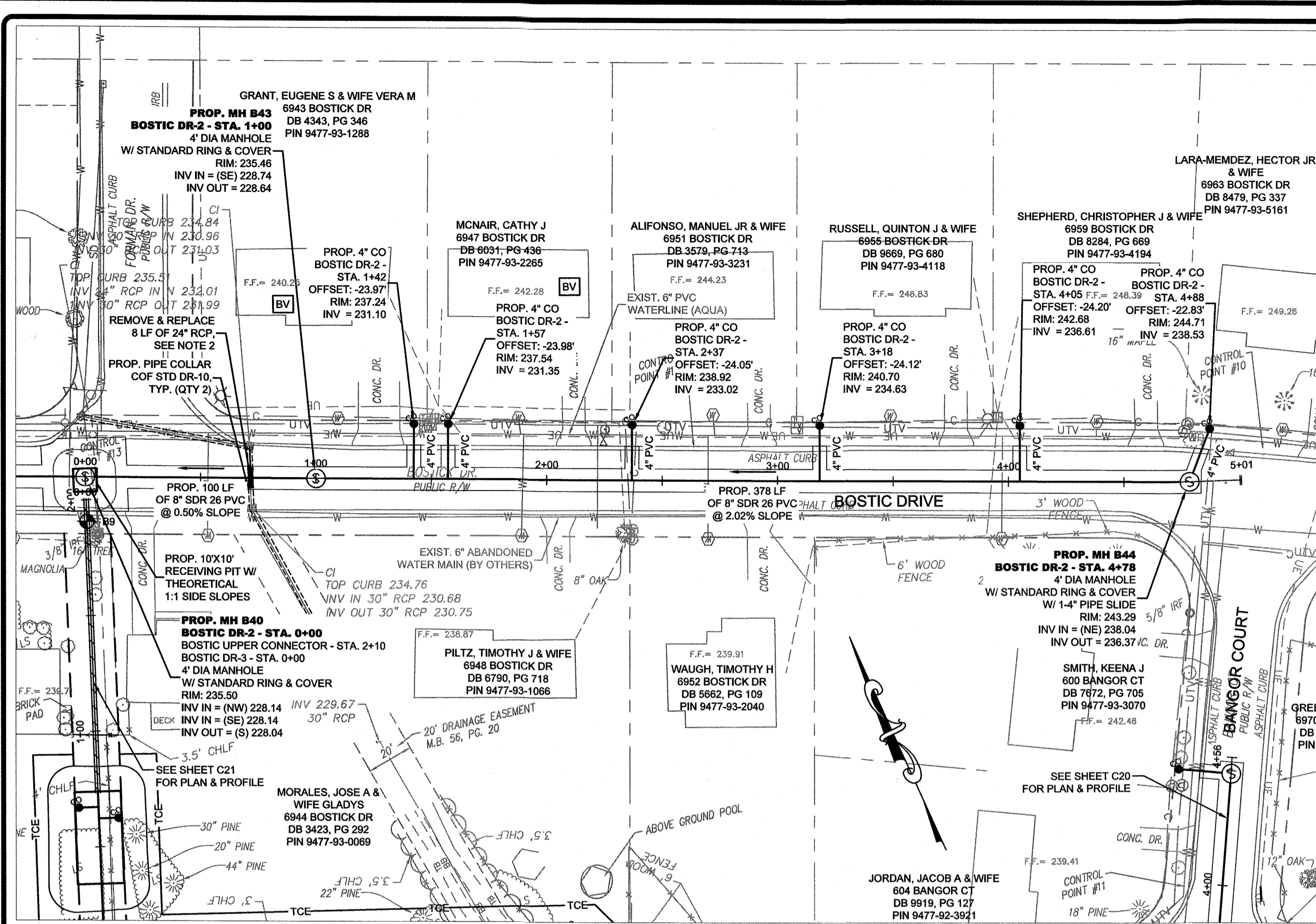


SEXTON CT BACKYARD 2 & BOSTIC UPPER CONN
ANNEXATION PHASE V, AREA 24, SECTIONS B & C
FAYETTEVILLE, NORTH CAROLINA

PWC
FAYETTEVILLE PUBLIC WORKS COMMISSION
WATER RESOURCES ENGINEERING
P.O. Box 1008, Fayetteville, NC 28302
605 Old Wilmington Road, Fayetteville, NC 28301

DATE: 2/5/2021
SURVEY/IGS BY: STEWART
DRAWN BY: AMH/DK
CHECKED BY: TCH
SCALE: HOR: 1"=40'
VERT: 1"=4'

SHEET # 621

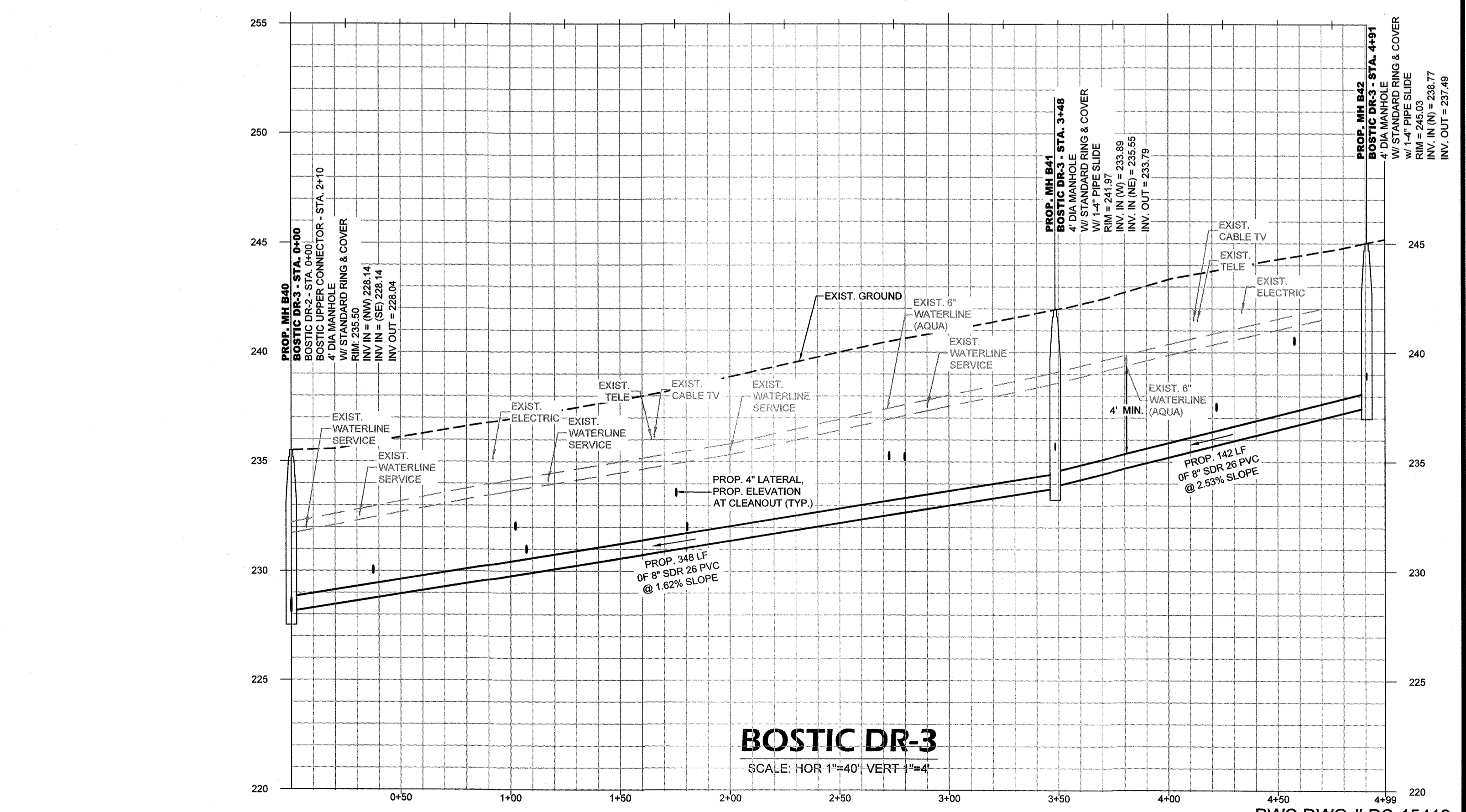
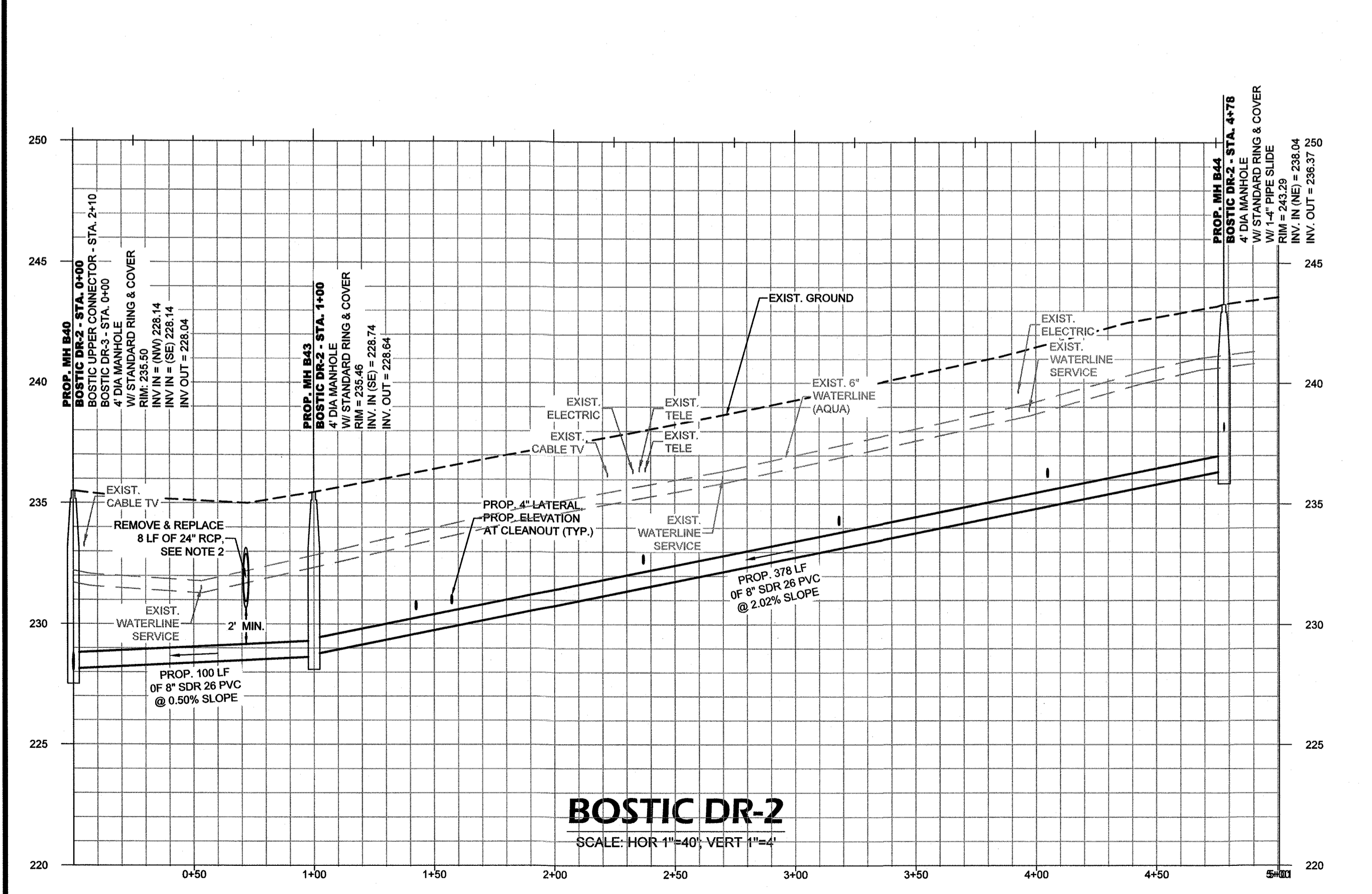
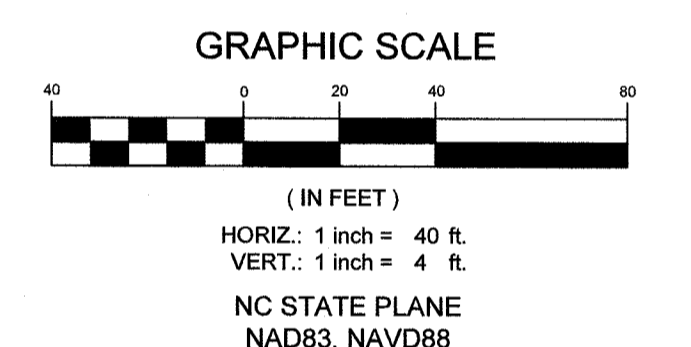


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- CONTRACTOR SHALL CENTER 24" RCP OVER SEWER MAIN AND CONNECT TO EXISTING RCP WITH CONCRETE COLLARS. SEE COF STANDARD DETAIL DR-19.

SEPTIC TANK NOTE:

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BY: _____
 DATE: 2/5/2021
 SURVEYED BY: STEWART
 DRAWN BY: AMH/DK
 CHECKED BY: TCH
 HOR: 1"=40'
 SCALE: VERT. 1"=4'
 SHEET SERIES: FINAL DESIG. - BID PLANS
 SHEET # C22

WICKSON
 COMMUNITY UTILITIES CONSULTANTS
 7200 Corporate Center Drive
 Raleigh, North Carolina 27607
 (919) 872-9872
 www.wickson.com

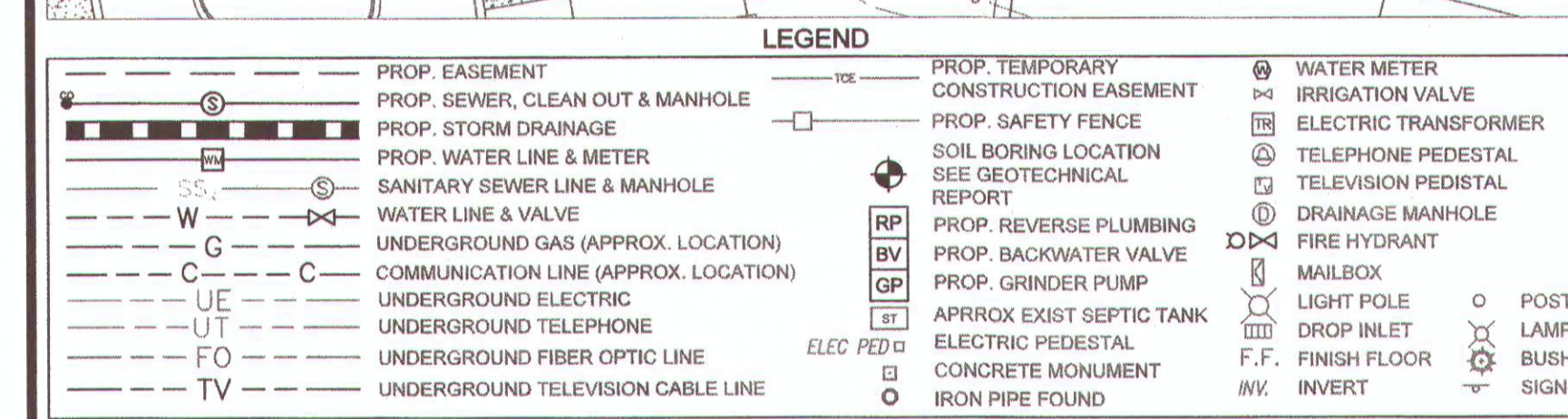
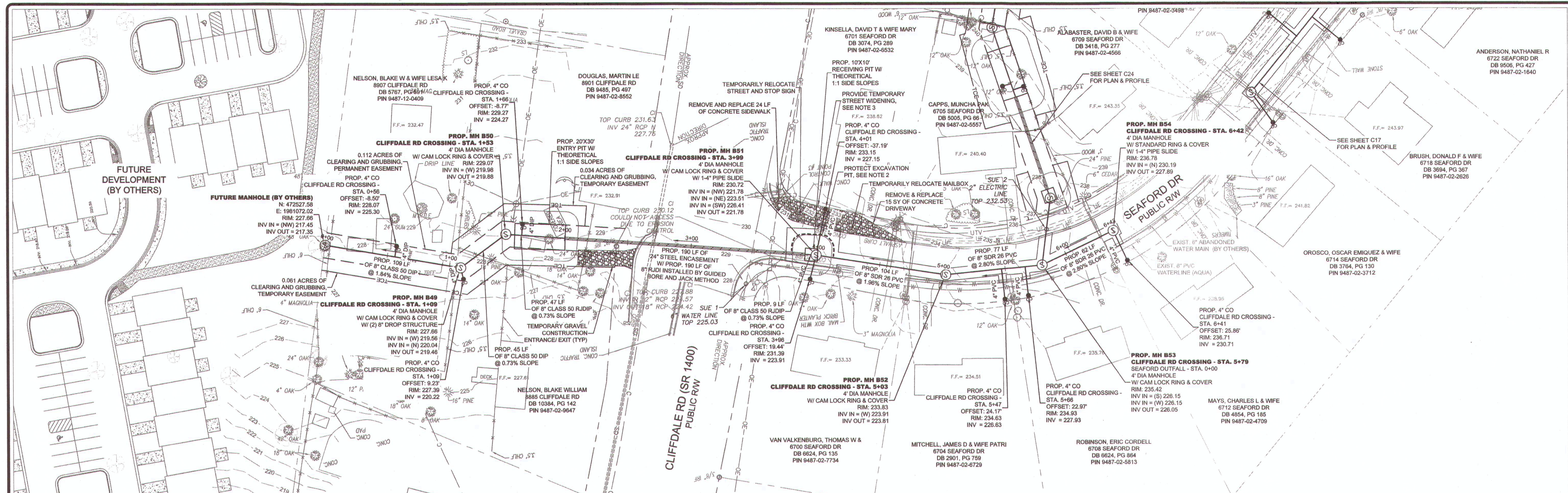
PROFESSIONAL ENGINEER
 STATE OF NORTH CAROLINA
 SEAL
 024984
 T. CHAPMAN

BOSTIC DR 2 & BOSTIC DR 3
 ANNEXATION PHASE V, AREA 24, SECTIONS B & C
 FAYETTEVILLE, NORTH CAROLINA

FAYETTEVILLE
PUBLIC WORKS COMMISSION
WATER RESOURCES ENGINEERING
 P.O. Box 1888, Fayetteville, NC 28302
 955 Old Wilmington Road, Fayetteville, NC 28301

PWC DWG # DS-15412

20190126.00.RA

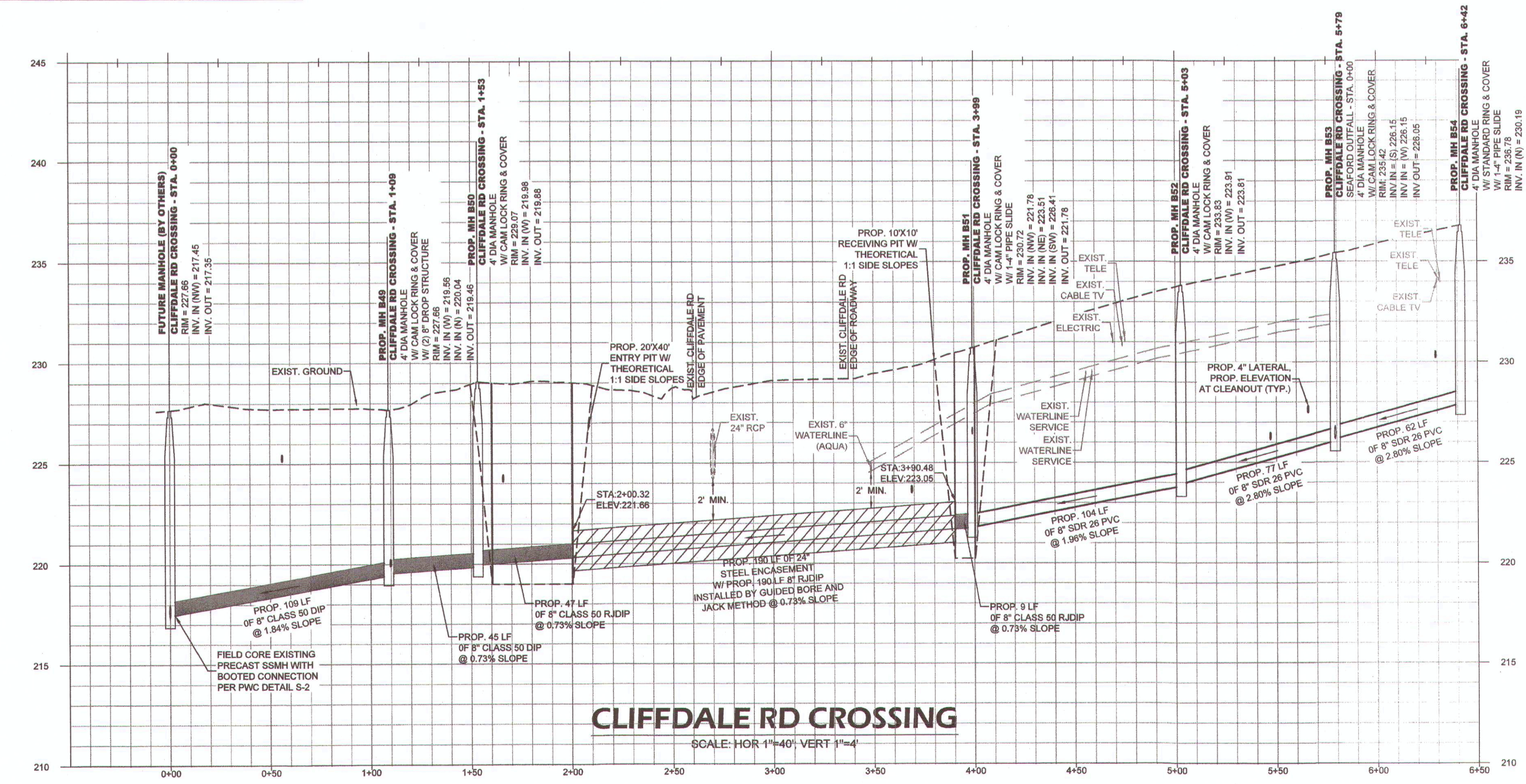
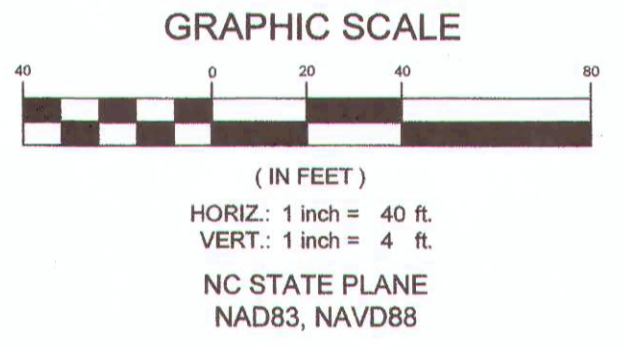


GENERAL NOTE:

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- CONTRACTOR SHALL PROVIDE TRAFFIC BARRIERS AROUND PIT IN ACCORDANCE WITH NC DOT STANDARD DETAILS AND SPECIFICATIONS AND MUTCD TO PROTECT PERSONNEL WORKING IN AND AROUND THE EXCAVATION AND EQUIPMENT, AS WELL AS THE ROADWAY USER.
- CONTRACTOR SHALL TEMPORARILY WIDEN STREET TO PROVIDE EMERGENCY SERVICES AND NEIGHBORHOOD ACCESS. UPON COMPLETION OF BORE AND DRIVEABLE CONDITIONS, RESTORE SHOULDER TO EXISTING CONDITIONS. TEMPORARY STREET SHALL BE INSTALLED PRIOR TO BEGINNING WORK ON BORE AND JACK OF SEWER UNDER CLIFFDALE ROAD.

SEPTIC TANK NOTE:

- CONTRACTOR SHALL REPAIR ANY DAMAGE TO SEPTIC TANK AND/OR DRAIN FIELD, TO EXISTING OR BETTER CONDITION IN ACCORDANCE WITH ALL LOCAL AND STATE REGULATIONS, IMMEDIATELY UPON OCCURRENCE OF DAMAGE DURING CONSTRUCTION OF SEWER IMPROVEMENTS. CONTRACTOR SHALL PUMP AND HAUL SEPTIC CONTENTS AS NECESSARY DURING THE INTERIM BETWEEN SEPTIC SYSTEM DAMAGE AND REPAIR. NO SEPARATE PAYMENT.



CLIFFDALE RD CROSSING
SCALE: HOR 1"=40' VERT 1"=4'

PWC FAYETTEVILLE PUBLIC WORKS COMMISSION	
PHASE V ANNEXATION, VILLAGE HILLS AND KINGS MILL SUBDIVISIONS	
AREA 24 B-C REVISION 1	
DRAWN BY: WJK	WO # S-200904
ENG TECH: G. SMITH	WO # N/A
APPROVED BY: CFC	PERMIT # N/A
DATE: 9-10-2021	PERMIT # PWC 2021-5005
SCALE: 1"=40'	DS-15412
PROJ: 190000003	# OF SHEETS: 5

PWC DWG # DS-15412

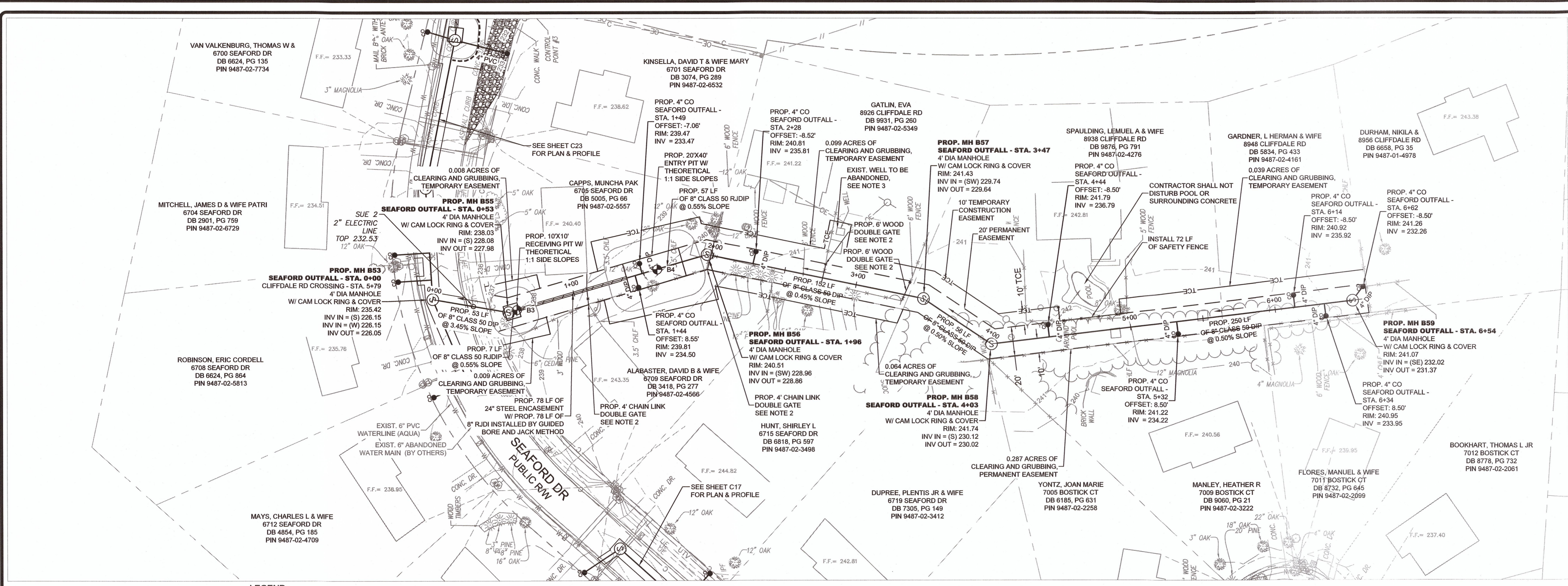
DATE: 2/5/2021
 BY: [Signature]
 CHECKED BY: TCH
 SCALE: HOR 1"=40' VERT 1"=4'
 SHEET # C23

PROFESSIONAL SEAL
 T. CARLISLE
 ENGINEER
 02-1994

CLIFFDALE RD CROSSING
 ANNEXATION PHASE V, AREA 24, SECTIONS B & C
 FAYETTEVILLE, NORTH CAROLINA

FAYETTEVILLE PUBLIC WORKS COMMISSION
WATER RESOURCES ENGINEERING
 P.O. Box 1085, Fayetteville, NC 28302
 855 Old Wilmington Road, Fayetteville, NC 28301

20190126.00.RA



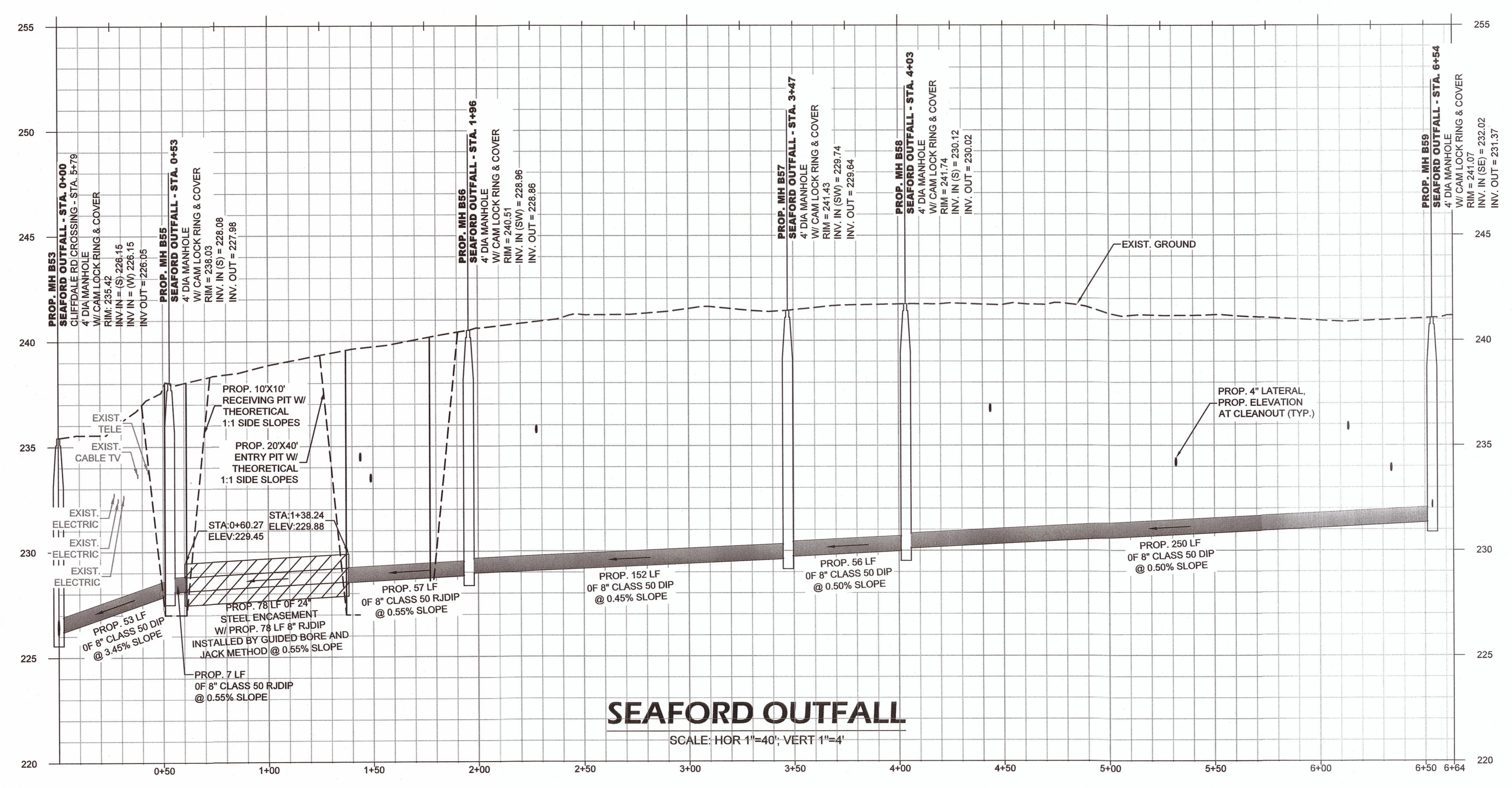
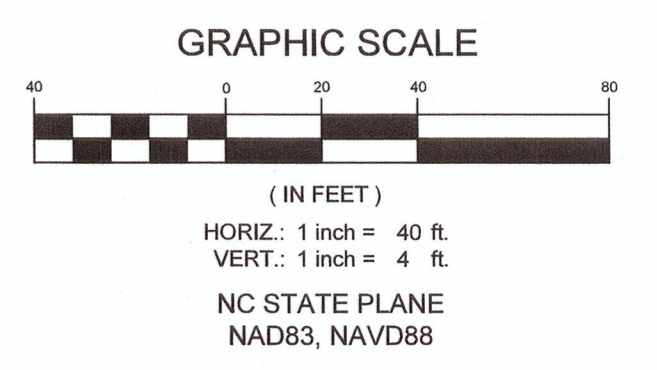
LEGEND	
	PROP. EASEMENT
	PROP. SEWER, CLEAN OUT & MANHOLE
	PROP. STORM DRAINAGE
	PROP. WATER LINE & METER
	SANITARY SEWER LINE & MANHOLE
	WATER LINE & VALVE
	UNDERGROUND GAS (APPROX. LOCATION)
	COMMUNICATION LINE (APPROX. LOCATION)
	UNDERGROUND ELECTRIC
	UNDERGROUND TELEPHONE
	UNDERGROUND FIBER OPTIC LINE
	UNDERGROUND TELEVISION CABLE LINE
	PROP. TEMPORARY CONSTRUCTION EASEMENT
	PROP. SAFETY FENCE
	SOIL BORING LOCATION
	SEE GEOTECHNICAL REPORT
	PROP. REVERSE PLUMBING
	PROP. BACKWATER VALVE
	PROP. GRINDER PUMP
	APPROX. EXIST. SEPTIC TANK
	ELECTRIC PEDESTAL
	CONCRETE MONUMENT
	IRON PIPE FOUND
	WATER METER
	IRRIGATION VALVE
	ELECTRIC TRANSFORMER
	TELEPHONE PEDESTAL
	DRAINAGE MANHOLE
	FIRE HYDRANT
	MAILBOX
	LIGHT POLE
	DROP INLET
	F.F. FINISH FLOOR
	INVERT
	POST LAMP
	BUSH SIGN

GENERAL NOTE:

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- CONTRACTOR SHALL INSTALL NEW FENCE GATE (PER PLANS) CENTERED OVER THE EXISTING FENCE SECTION OF PERMANENT UTILITY EASEMENT (APPROX. 20 FEET IN WIDTH). THE INSTALLATION OF THE NEW GATE SHALL BE A SEPARATE PAYMENT ITEM. FENCE REMOVAL AND REPLACEMENT SHALL BE CONSIDERED INCIDENTAL TO THE SEWER MAIN INSTALLATION AND NO SEPARATE PAYMENT SHALL BE MADE.
- CONTRACTOR SHALL ABANDON EXISTING PRIVATE WELL IN ACCORDANCE WITH ALL LOCAL AND STATE REQUIREMENTS.

SEPTIC TANK NOTE:

- CONTRACTOR SHALL REPAIR ANY DAMAGE TO SEPTIC TANK AND/OR DRAIN FIELD, TO EXISTING OR BETTER CONDITION IN ACCORDANCE WITH ALL LOCAL AND STATE REGULATIONS, IMMEDIATELY UPON OCCURRENCE OF DAMAGE DURING CONSTRUCTION OF SEWER IMPROVEMENTS. CONTRACTOR SHALL PUMP AND HAUL SEPTIC CONTENTS AS NECESSARY DURING THE INTERIM BETWEEN SEPTIC SYSTEM DAMAGE AND REPAIR. NO SEPARATE PAYMENT.



SEAFORD OUTFALL
SCALE: HOR 1"=40', VERT 1"=4'

DATE	2/5/2021
BY	STEWART
CHECKED BY	TCH
SCALE	HOR: 1"=40' VERT: 1"=4'

DATE: 2/5/2021
SURVEYED BY: STEWART
DRAWN BY: AMH/DK
CHECKED BY: TCH
SCALE: HOR: 1"=40'
VERT: 1"=4'

WICKSON
700 Concord Center Drive
Fayetteville, NC 28307
P: 919.762.2485
www.wickson.com



SEAFORD OUTFALL
ANNEXATION PHASE V, AREA 24, SECTIONS B & C
FAYETTEVILLE, NORTH CAROLINA

FAYETTEVILLE
PUBLIC WORKS COMMISSION
PWC
WATER RESOURCES ENGINEERING
P.O. Box 1089, Fayetteville, NC 28302
95 Old Wilmington Road, Fayetteville, NC 28301

DATE	2/15/2021
REVISIONS	1. REVISED TO ADD: 2. REVISED TO ADD: 3. REVISED TO ADD:
DATE	3/24/21
DATE	4/1/21

DATE: 2/15/2021
 SURVEYED BY: STEWART
 DRAWN BY: AMH/DK
 CHECKED BY: TCH
 SCALE: HORIZ: 1"=40'
 VERT: 1"=4'

WICKSON
 CONSULTING ENGINEERS
 1700 Corporate Center Drive
 Raleigh, NC 27603
 www.wickson.com

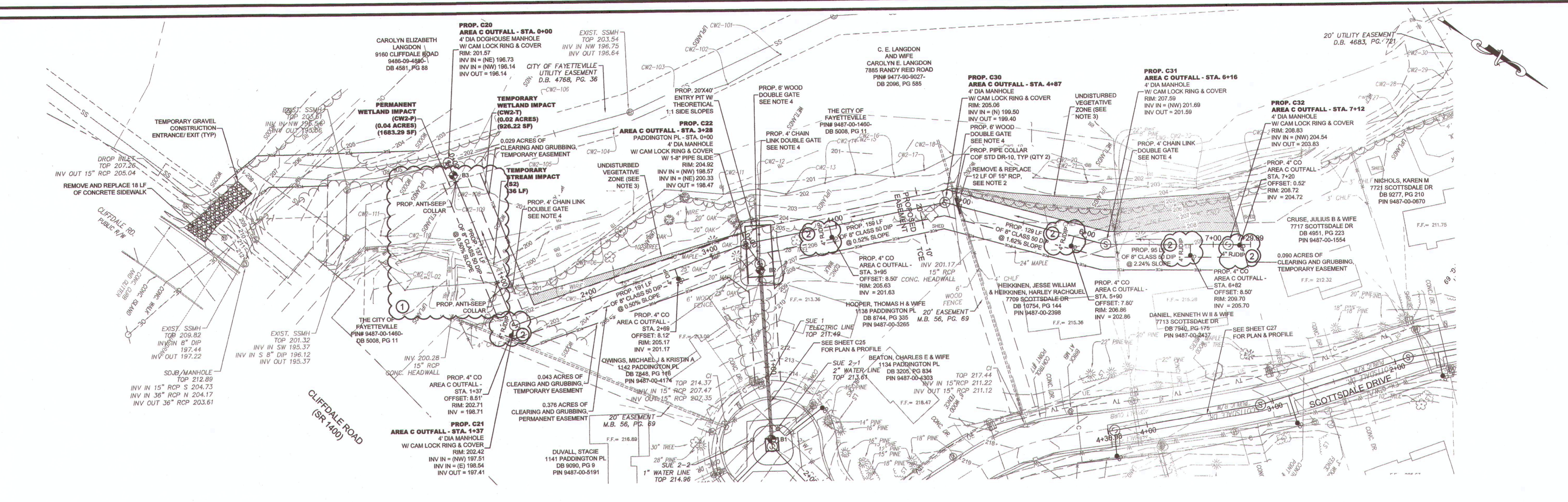


SCOTTSDALE OUTFALL
 ANNEXATION PHASE V, AREA 24, SECTIONS B & C
 FAYETTEVILLE, NORTH CAROLINA

FAYETTEVILLE
 PUBLIC WORKS COMMISSION
WATER RESOURCES ENGINEERING
 818 W. 10th Street, Fayetteville, NC 28301
 910-438-1100

DRAWN BY: WCD	WO #: 5-2008096
ENG TECH: G. Smith	WO #: N/A
APPROVED BY: CFC	PERMIT #: N/A
DATE: 9-10-2021	PERMIT #: POC2021-5005
SCALE: 1"=40'	DS: 15412
PROJ #: 1900000083	# OF SHEETS: 5

PWC DWG # DS-15412
 20191026.00.RA

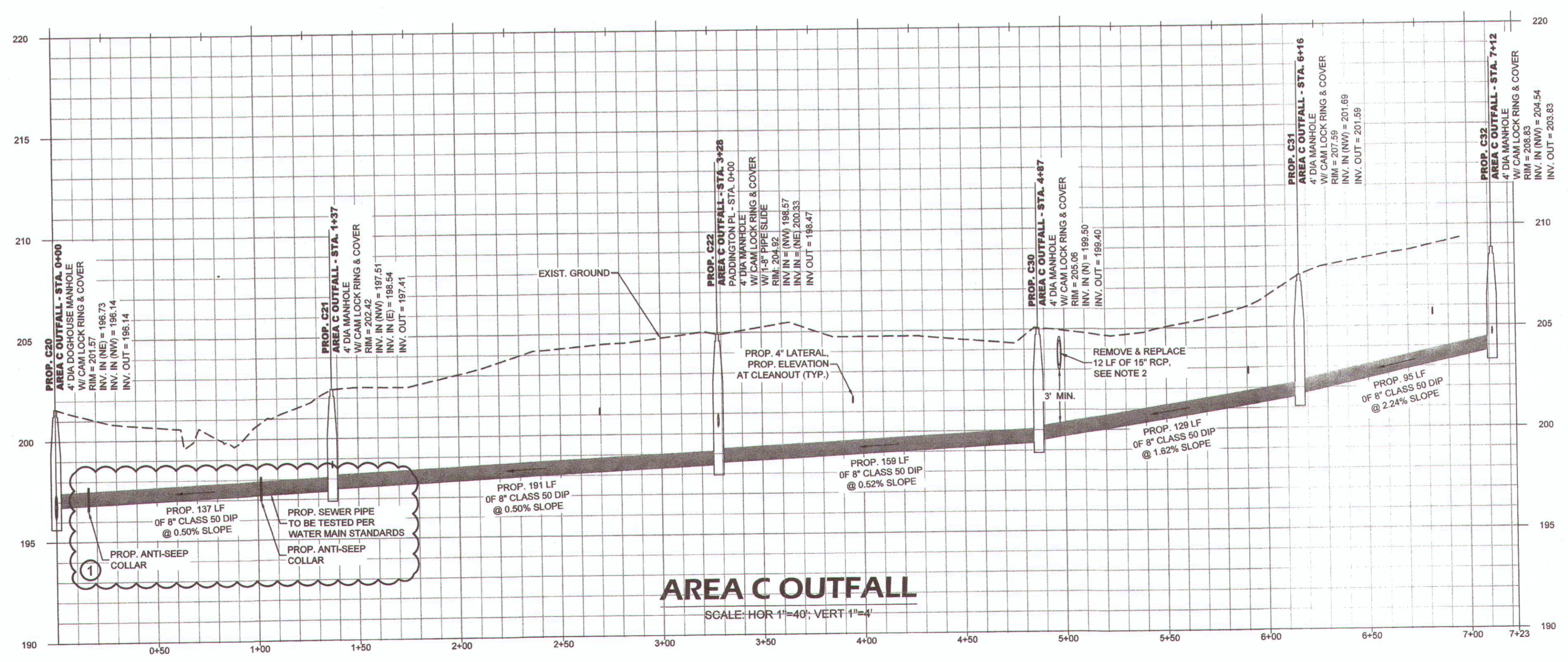
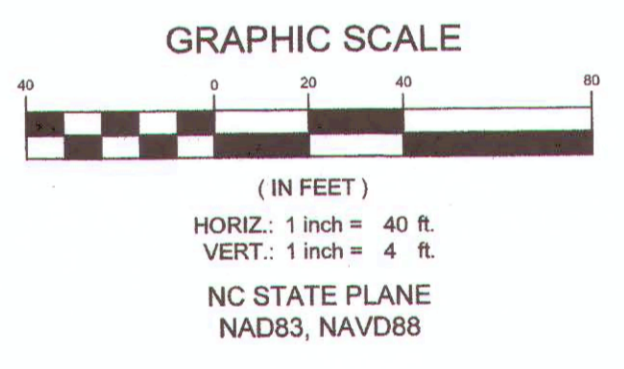


LEGEND

— S —	PROP. EASEMENT	— W —	PROP. SEWER, CLEAN OUT & MANHOLE	⊙	WATER METER
— SS —	PROP. STORM DRAINAGE	— W —	PROP. WATER LINE & METER	⊕	IRRIGATION VALVE
— W —	SANITARY SEWER LINE & MANHOLE	— W —	UNDERGROUND GAS (APPROX. LOCATION)	⊕	ELECTRIC TRANSFORMER
— W —	WATER LINE & VALVE	— W —	UNDERGROUND ELECTRIC (APPROX. LOCATION)	⊕	SOIL BORING LOCATION
— W —	UNDERGROUND GAS (APPROX. LOCATION)	— W —	UNDERGROUND TELEPHONE	⊕	SEE GEOTECHNICAL REPORT
— W —	UNDERGROUND ELECTRIC (APPROX. LOCATION)	— W —	UNDERGROUND FIBER OPTIC LINE	⊕	PROP. REVERSE PLUMBING
— W —	UNDERGROUND TELEPHONE	— W —	UNDERGROUND TELEVISION CABLE LINE	⊕	PROP. BACKWATER VALVE
— W —	UNDERGROUND FIBER OPTIC LINE	— W —		⊕	PROP. GRINDER PUMP
— W —	UNDERGROUND TELEVISION CABLE LINE	— W —		⊕	APPROX EXIST SEPTIC TANK
		— W —		⊕	ELECTRIC PEDESTAL
		— W —		⊕	CONCRETE MONUMENT
		— W —		⊕	IRON PIPE FOUND

- GENERAL NOTE:**
- CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE THE PROPOSED SEWER LATERAL INSTALLATION WITH THE EXISTING UTILITIES. CONTRACTOR SHALL USE PWC STANDARD DETAIL S.12 SEWER SERVICE LATERAL. UTILITY CONFLICT SEPARATION REQUIREMENTS WILL BE WHEN APPROVED BY PWC PROJECT COORDINATOR.
 - CONTRACTOR SHALL CENTER 15" RCP OVER SEWER MAIN AND CONNECT TO EXISTING RCP WITH CONCRETE PIPE COLLARS. SEE COF STANDARD DETAIL DR-19.
 - CONTRACTOR SHALL NOT DISTURB VEGETATIVE BUFFER ZONE.
 - CONTRACTOR SHALL INSTALL NEW FENCE GATE (PER PLANS) CENTERED OVER THE EXISTING FENCE SECTION OF PERMANENT UTILITY EASEMENT (APPROX. 20 FEET IN WIDTH). THE INSTALLATION OF THE NEW GATE SHALL BE A SEPARATE PAYMENT ITEM. FENCE REMOVAL AND REPLACEMENT SHALL BE CONSIDERED INCIDENTAL TO THE SEWER MAIN INSTALLATION AND NO SEPARATE PAYMENT SHALL BE MADE.

- SEPTIC TANK NOTE:**
- CONTRACTOR SHALL REPAIR ANY DAMAGE TO SEPTIC TANK AND/OR DRAIN FIELD, TO EXISTING OR BETTER CONDITION IN ACCORDANCE WITH ALL LOCAL AND STATE REGULATIONS, IMMEDIATELY UPON OCCURRENCE OF DAMAGE DURING CONSTRUCTION OF SEWER IMPROVEMENTS. CONTRACTOR SHALL PUMP AND HAUL SEPTIC CONTENTS AS NECESSARY DURING THE INTERIM BETWEEN SEPTIC SYSTEM DAMAGE AND REPAIR. NO SEPARATE PAYMENT.

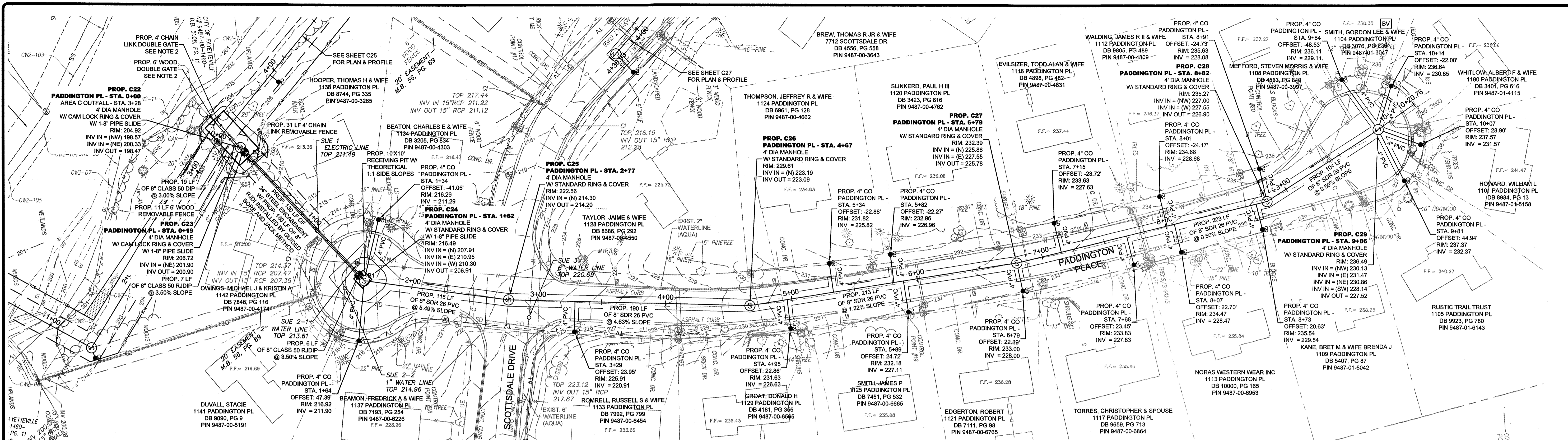


PWC FAYETTEVILLE PUBLIC WORKS COMMISSION

PHASE V ANNEXATION, VILLAGE HILLS AND KINGS MILL SUBDIVISIONS
 AREA 24 B-C REVISION 1

DRAWN BY: WCD	WO #: 5-2008096
ENG TECH: G. Smith	WO #: N/A
APPROVED BY: CFC	PERMIT #: N/A
DATE: 9-10-2021	PERMIT #: POC2021-5005
SCALE: 1"=40'	DS: 15412
PROJ #: 1900000083	# OF SHEETS: 5

PWC DWG # DS-15412



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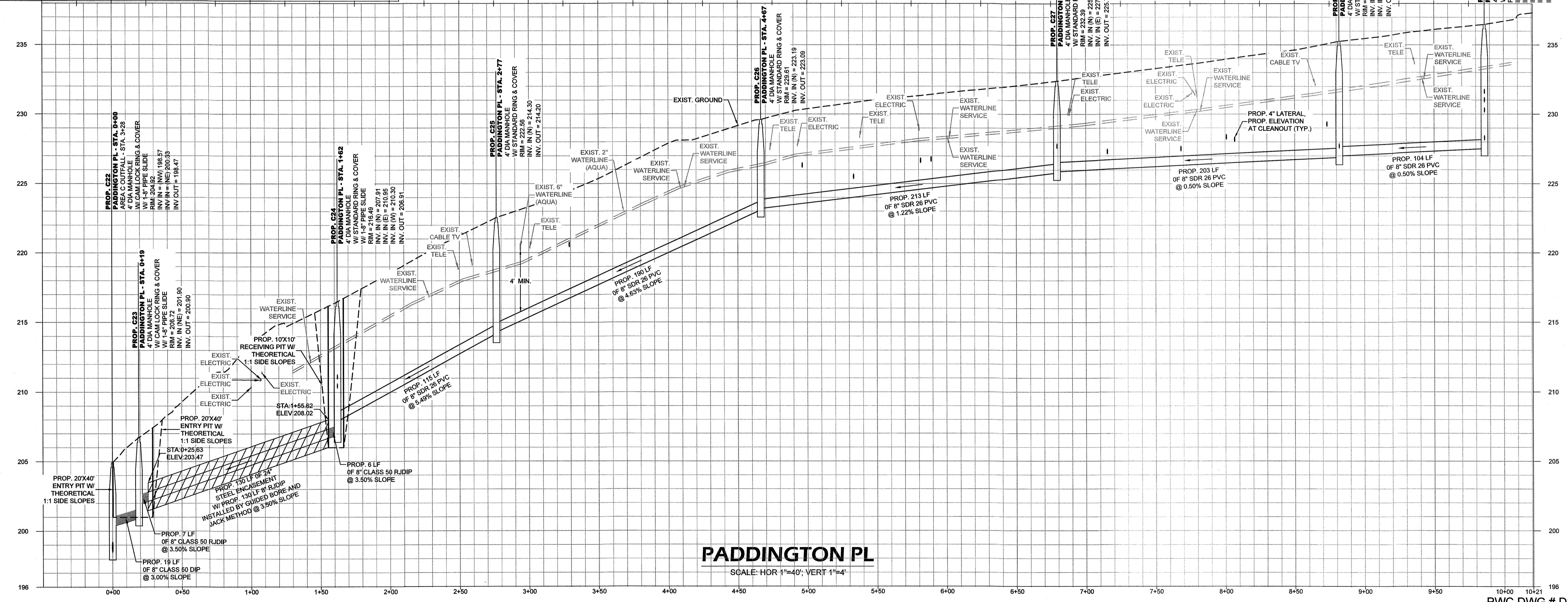
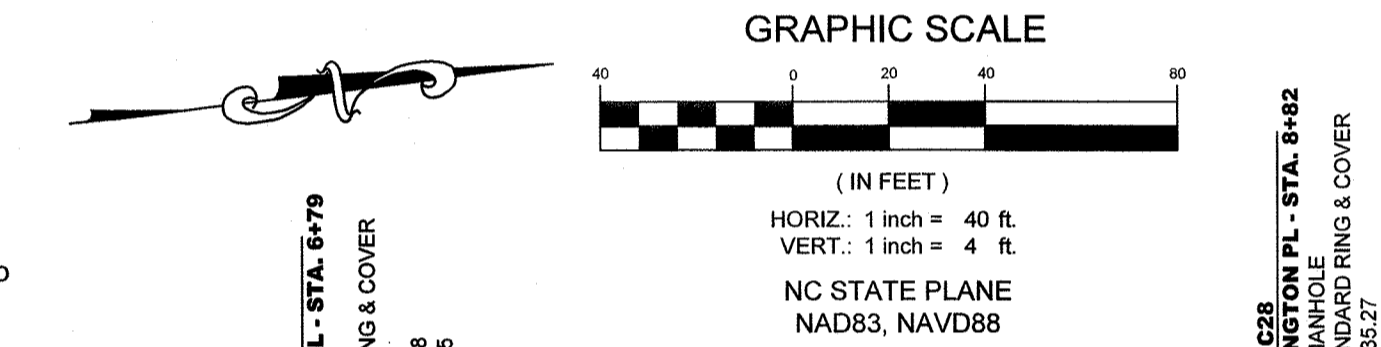
—	PROP. EASEMENT	—	PROP. TEMPORARY CONSTRUCTION EASEMENT	⊕	WATER METER
—	PROP. SEWER, CLEAN OUT & MANHOLE	—	PROP. SAFETY FENCE	⊕	IRRIGATION VALVE
—	PROP. STORM DRAINAGE	—	PROP. SOIL BORING LOCATION	⊕	ELECTRIC TRANSFORMER
—	PROP. WATER LINE & METER	—	PROP. REVERSE PLUMBING	⊕	TELEPHONE PEDESTAL
—	SANITARY SEWER LINE & MANHOLE	—	PROP. BACKWATER VALVE	⊕	TELEVISION PEDESTAL
—	WATER LINE & VALVE	—	PROP. GRINDER PUMP	⊕	DRAINAGE MANHOLE
—	UNDERGROUND GAS (APPROX. LOCATION)	—	APPROX EXIST SEPTIC TANK	⊕	FIRE HYDRANT
—	COMMUNICATION LINE (APPROX. LOCATION)	—	ELECTRIC PEDESTAL	⊕	MAILBOX
—	UNDERGROUND ELECTRIC	—	CONCRETE MONUMENT	⊕	LIGHT POLE
—	UNDERGROUND TELEPHONE	—	IRON PIPE FOUND	⊕	DROP INLET
—	UNDERGROUND FIBER OPTIC LINE	—		⊕	LAMP
—	UNDERGROUND TELEVISION CABLE LINE	—		⊕	BUSH
—		—		⊕	SIGN

GENERAL NOTE:

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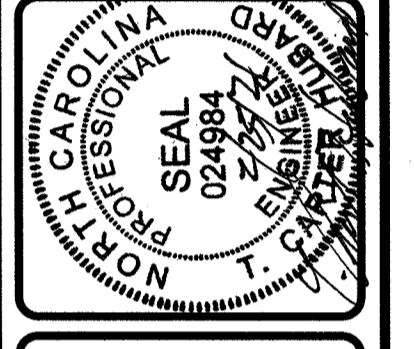
PADDINGTON PL
SCALE: HOR 1"=40'; VERT 1"=4'

PWC DWG # DS-15412

DATE	2/5/2021
REVISIONS	

SURVEYED BY: STEWART
DRAWN BY: AMI/DK
CHECKED BY: TCH
SCALE: HOR 1"=40'
VERT 1"=4'

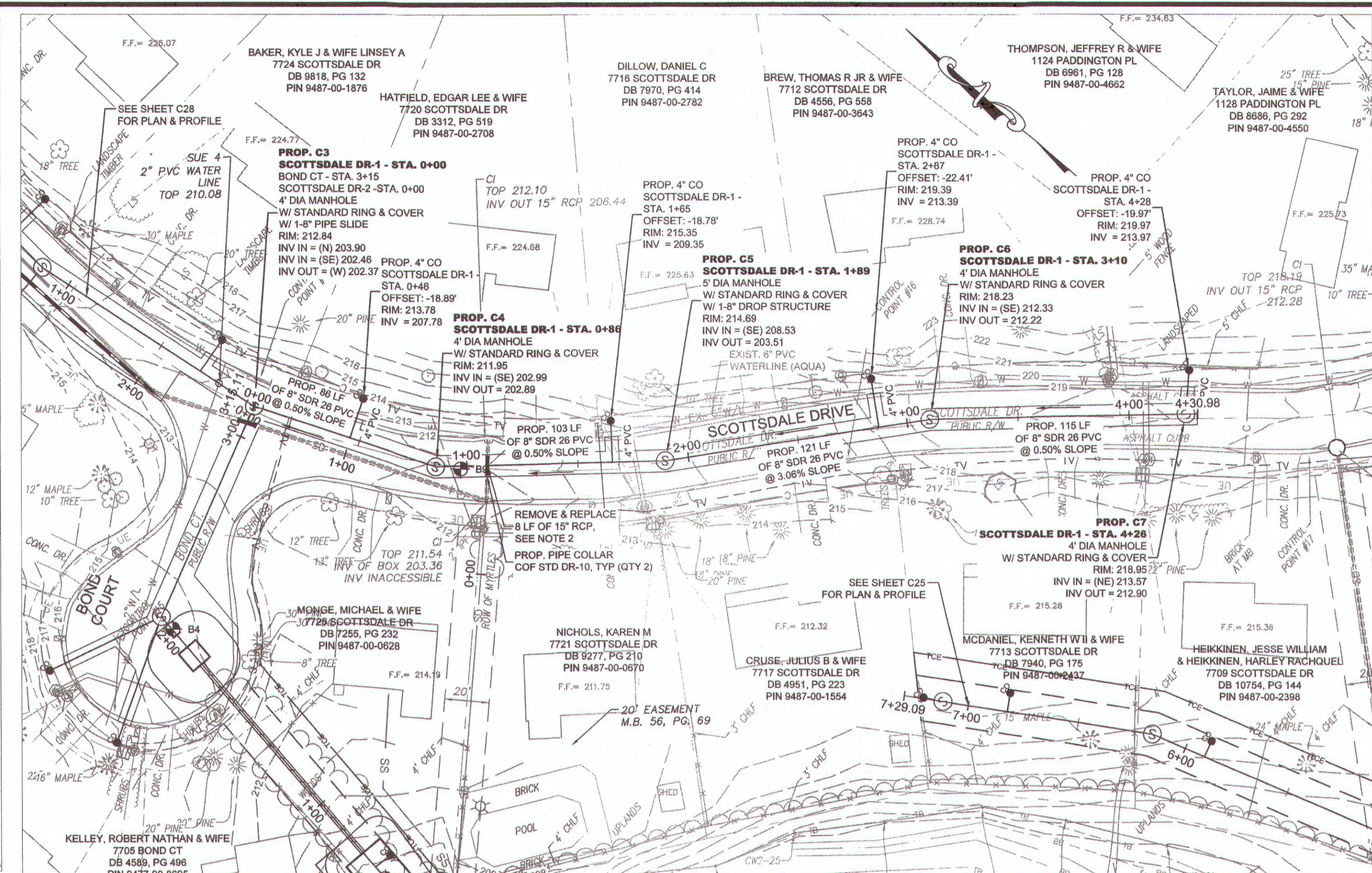
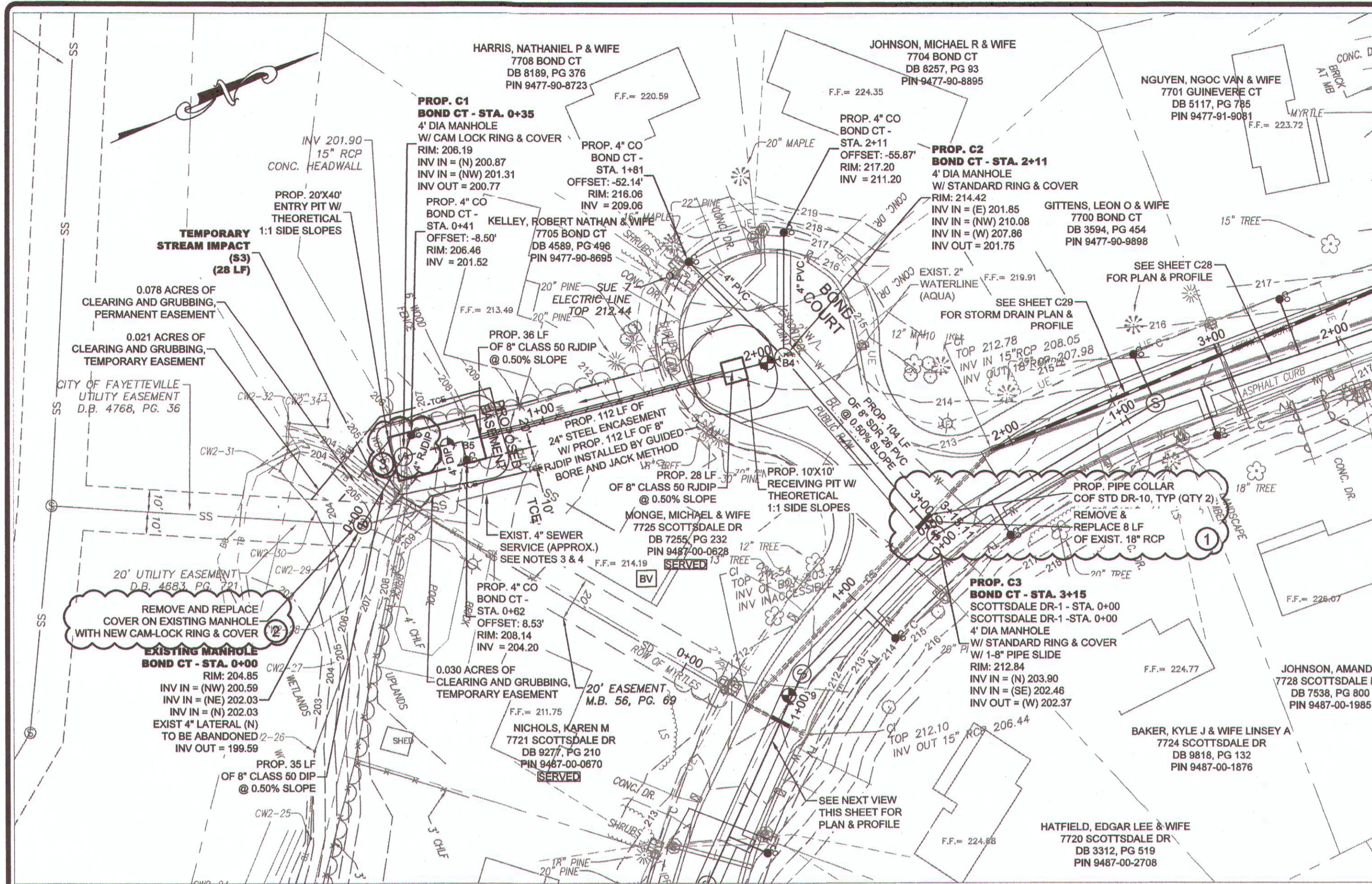
PWC
Professional Water Consultants
200 Corporate Center Drive
Raleigh, North Carolina 27607
(919) 782-8892
www.pwc-engineering.com



PADDINGTON PL
ANNEXATION PHASE V, AREA 24, SECTIONS B & C
FAYETTEVILLE, NORTH CAROLINA

FAYETTEVILLE
PUBLIC WORKS COMMISSION
PWC
WATER RESOURCES ENGINEERING
P.O. Box 1088, Fayetteville, NC 28302
855 Old Wilmington Road, Fayetteville, NC 28301

20190126.00.RA



LEGEND

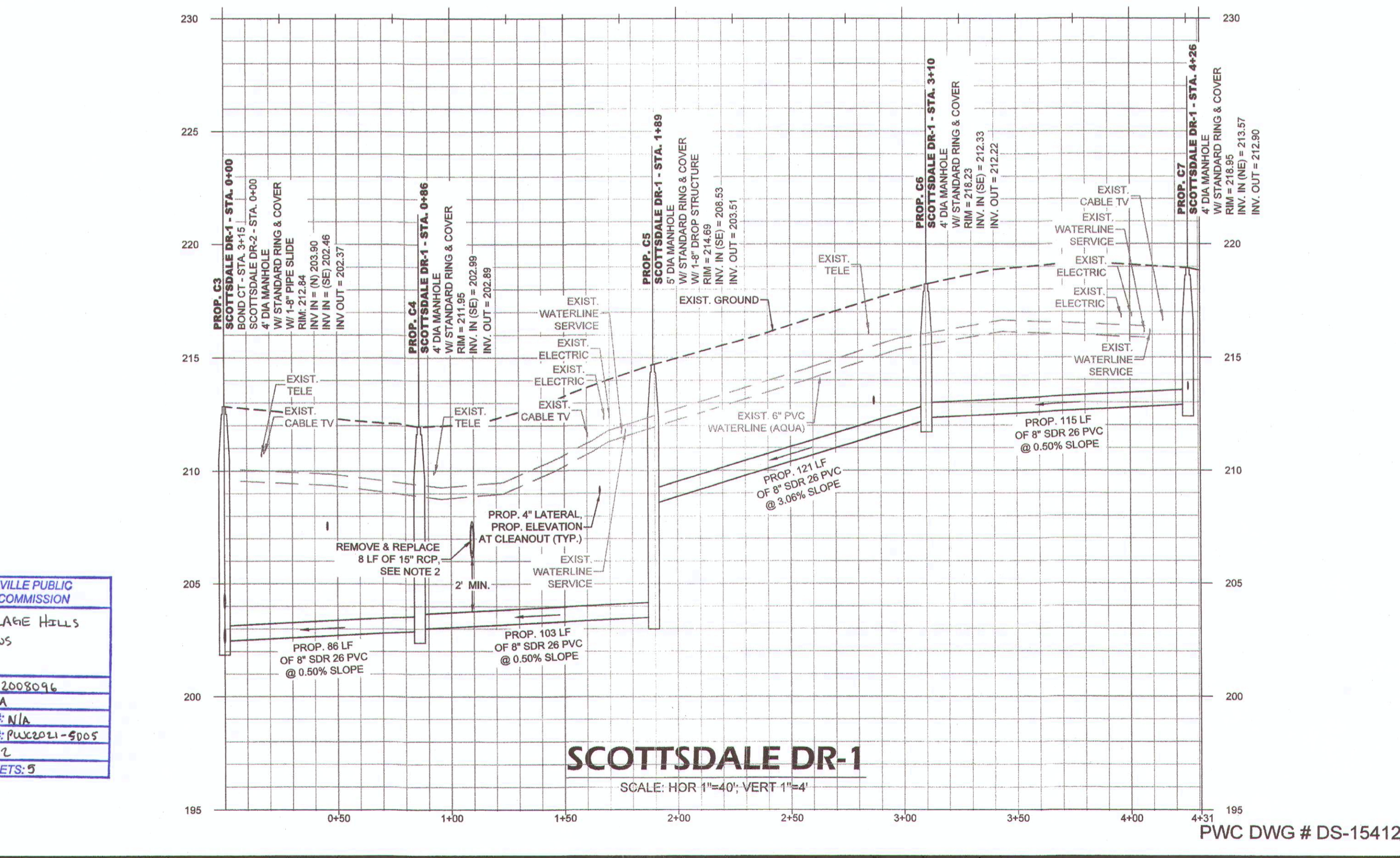
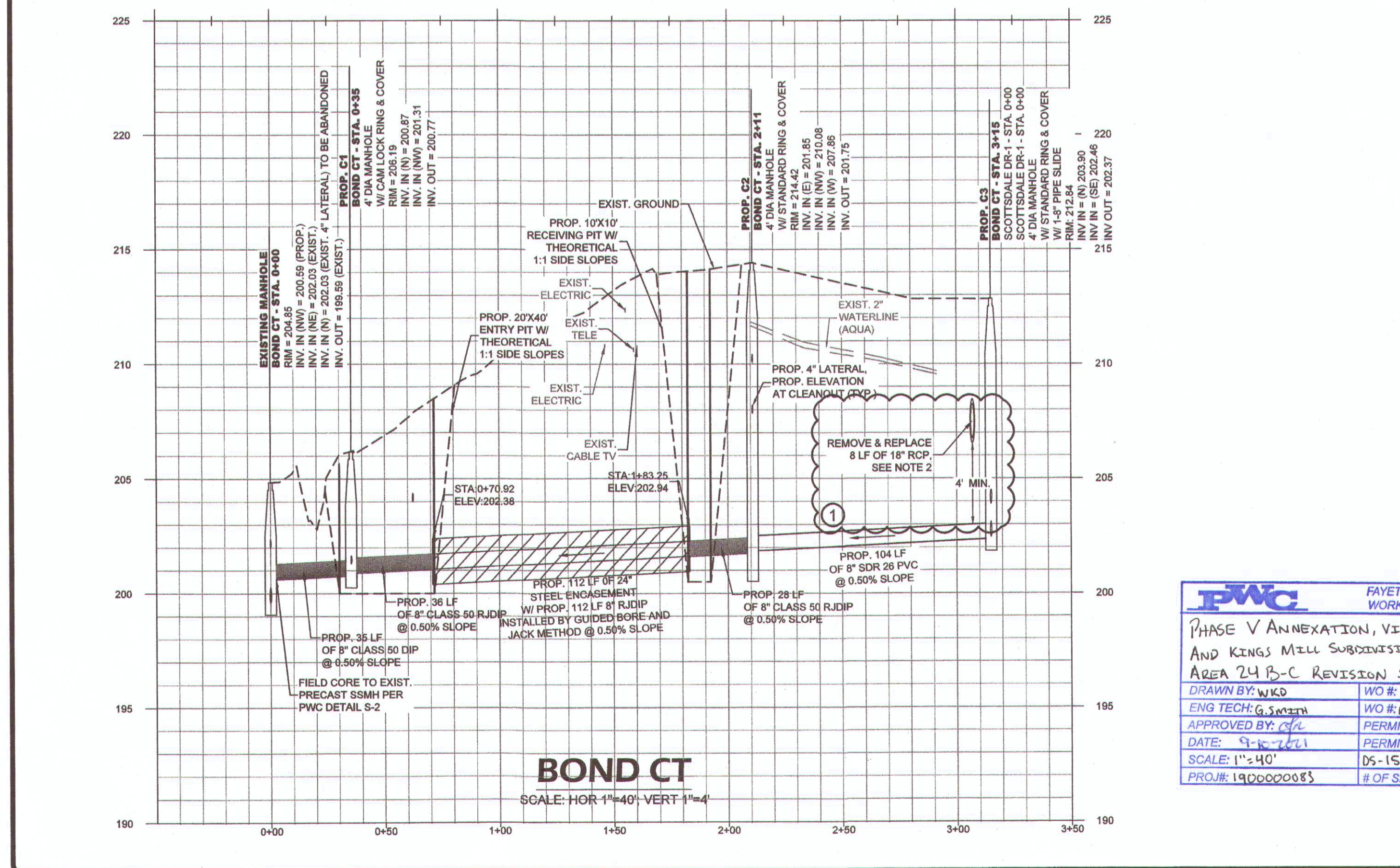
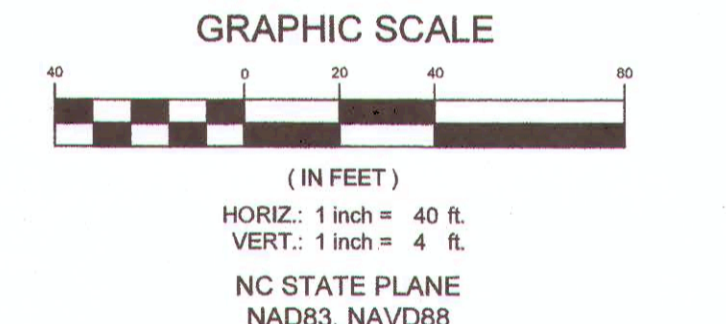
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—○—	PROP. STORM DRAINAGE	—○—	PROP. SAFETY FENCE	⊗	IRRIGATION VALVE
—○—	PROP. WATER LINE & METER	—○—	PROP. SOIL BORING LOCATION	⊗	ELECTRIC TRANSFORMER
—○—	SANITARY SEWER LINE & MANHOLE	—○—	SEE GEOTECHNICAL REPORT	⊗	TELEPHONE PEDESTAL
—○—	WATER LINE & VALVE	—○—	PROP. REVERSE PLUMBING	⊗	TELEVISION PEDESTAL
—○—	UNDERGROUND GAS (APPROX. LOCATION)	—○—	PROP. BACKWATER VALVE	⊗	DRAINAGE MANHOLE
—○—	COMMUNICATION LINE (APPROX. LOCATION)	—○—	PROP. GRINDER PUMP	⊗	FIRE HYDRANT
—○—	UNDERGROUND ELECTRIC	—○—	APPROX EXIST SEPTIC TANK	⊗	MALIBOX
—○—	UNDERGROUND TELEPHONE	—○—	CONCRETE MONUMENT	⊗	LIGHT POLE
—○—	UNDERGROUND FIBER OPTIC LINE	—○—	IRON PIPE FOUND	⊗	POST
—○—	UNDERGROUND TELEVISION CABLE LINE	—○—		⊗	LAMP
				⊗	BUSH
				⊗	FINISH FLOOR
				⊗	INVERT
				⊗	SIGN

GENERAL NOTE:

- CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE THE PROPOSED SEWER LATERAL INSTALLATION WITH THE EXISTING UTILITIES. CONTRACTOR SHALL USE PWC STANDARD DETAIL S-12 SEWER SERVICE LATERAL UTILITY CONFLICT SEPARATION REQUIREMENTS ONLY WHEN APPROVED BY PWC PROJECT COORDINATOR.
- CONTRACTOR SHALL CENTER 18" AND 15" RCP OVER SEWER MAIN AND CONNECT TO EXISTING RCP WITH CONCRETE PIPE COLLARS. SEE COP STANDARD DETAIL DR-19.
- 7725 SCOTTSDALE DRIVE IS CONNECTED TO THE EXISTING MANHOLE AT STATION 0+00 OF BOND COURT SEWER ALIGNMENT. EXISTING SEWER LATERAL LOCATION IS APPROXIMATE AND SHALL BE VERIFIED BY CONTRACTOR PRIOR TO BEGINNING WORK. SEWER SERVICE TO 7725 SCOTTSDALE DRIVE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING SEWER FLOW, CONNECTING EXISTING PRIVATE LATERAL TO NEW SEWER LATERAL, AND ABANDONING EXISTING LATERAL IN ACCORDANCE WITH PWC STANDARDS AT NO ADDITIONAL COST TO PWC. COORDINATE WORK PLAN WITH PWC PROJECT COORDINATOR. SEE NOTE 4 FOR CONSTRUCTION PHASING TO MAINTAIN SEWER FLOW TO 7725 SCOTTSDALE DRIVE.

SEPTIC TANK NOTE:

- CONTRACTOR SHALL REPAIR ANY DAMAGE TO SEPTIC TANK AND/OR DRAIN FIELD, TO EXISTING OR BETTER CONDITION IN ACCORDANCE WITH ALL LOCAL AND STATE REGULATIONS, IMMEDIATELY UPON OCCURRENCE OF DAMAGE DURING CONSTRUCTION OF SEWER IMPROVEMENTS. CONTRACTOR SHALL PUMP AND HAUL SEPTIC CONTENTS AS NECESSARY DURING THE INTERIM BETWEEN SEPTIC SYSTEM DAMAGE AND REPAIR. NO SEPARATE PAYMENT.



FWC FAYETTEVILLE PUBLIC WORKS COMMISSION

PHASE V ANNEXATION, VILLAGE HALLS AND KINGS MILL SUBDIVISIONS AREA 24 B-C REVISION 1

DRAWN BY: WKO
ENG TECH: G. SMITH
APPROVED BY: [Signature]
DATE: 9-16-2021
PROJECT: 1900020083

WO #: 5-2008094
WO #: N/A
PERMIT #: N/A
PERMIT #: PUX2011-5005
DATE: 05-15-21
OF SHEETS: 5

BY: [Signature]
DATE: 2/5/2021
DRAWN BY: AMH/DK
CHECKED BY: TCH
SCALE: HOR: 1"=40' VERT: 1"=4'
SHEET # C27

REVISIONS:

NO.	DATE	DESCRIPTION
1	2/5/2021	ISSUE FOR PERMIT
2	3/31/21	REVISIONS TO PERMIT
3	4/1/21	REVISIONS TO PERMIT

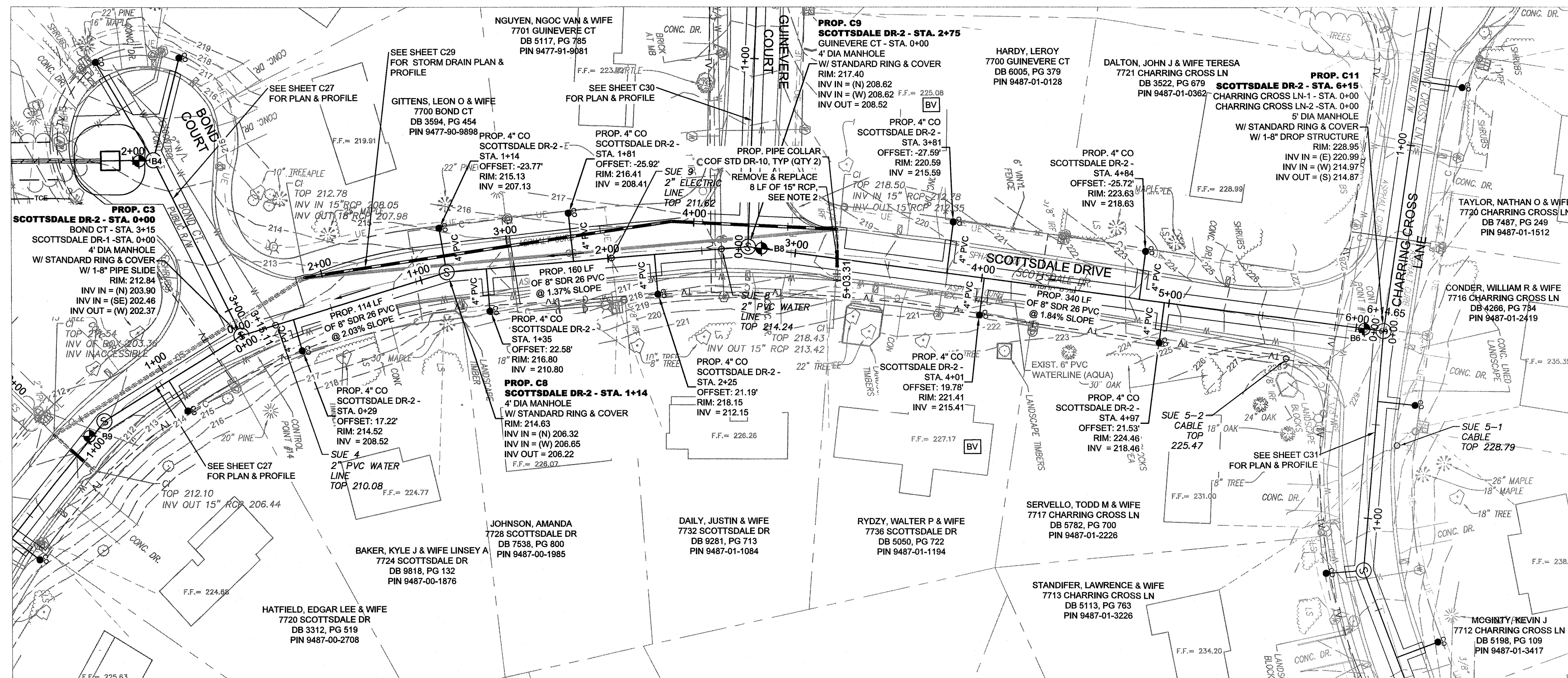
250 Corporate Center Drive
Fayetteville, NC 28302
910.437.2000
www.fwcnc.com

PROFESSIONAL SEAL
T. CARTER
ENGINEER

BOND CT OUTFALL & SCOTTSDALE DR-1
ANNEXATION PHASE V, AREA 24, SECTIONS B & C
FAYETTEVILLE, NORTH CAROLINA

FWC FAYETTEVILLE PUBLIC WORKS COMMISSION
WATER RESOURCES ENGINEERING
P.O. Box 1088, Fayetteville, NC 28302
955 Old Wilmington Road, Fayetteville, NC 28301

20190126.00.RA



LEGEND

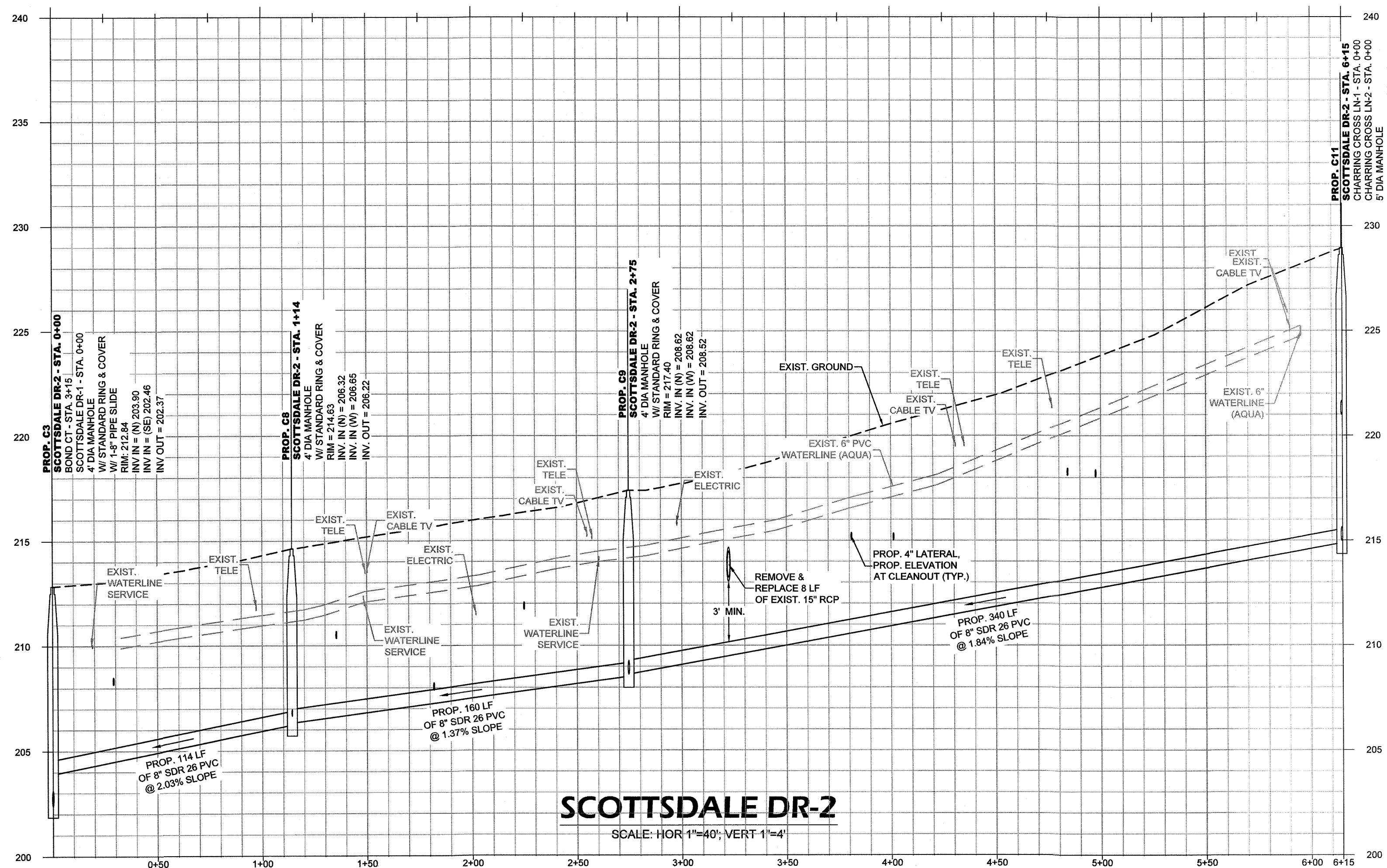
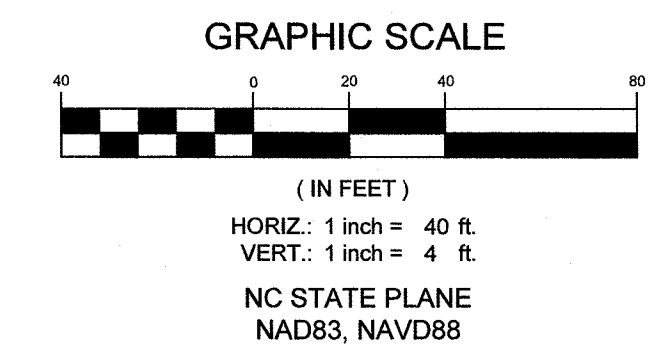
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---	PROP. SEWER, CLEAN OUT & MANHOLE	---	PROP. SAFETY FENCE	⊙	IRRIGATION VALVE
---	PROP. STORM DRAINAGE	---	SOIL BORING LOCATION	⊙	ELECTRIC TRANSFORMER
---	PROP. WATER LINE & METER	---	SEE GEOTECHNICAL REPORT	⊙	TELEPHONE PEDESTAL
---	SANITARY SEWER LINE & MANHOLE	---	PROP. REVERSE PLUMBING	⊙	TELEVISION PEDESTAL
---	WATER LINE & VALVE	---	PROP. BACKWATER VALVE	⊙	DRAINAGE MANHOLE
---	UNDERGROUND GAS (APPROX. LOCATION)	---	PROP. GRINDER PUMP	⊙	FIRE HYDRANT
---	COMMUNICATION LINE (APPROX. LOCATION)	---	APPROX. EXIST. SEPTIC TANK	⊙	MAILBOX
---	UNDERGROUND ELECTRIC	---	ELECTRIC PEDESTAL	⊙	LIGHT POLE
---	UNDERGROUND TELEPHONE	---	CONCRETE MONUMENT	⊙	DROP INLET
---	UNDERGROUND FIBER OPTIC LINE	---	IRON PIPE FOUND	⊙	FINISH FLOOR
---	UNDERGROUND TELEVISION CABLE LINE	---		⊙	INVERT
		---		⊙	POST
		---		⊙	LAMP
		---		⊙	BUSH
		---		⊙	SIGN

GENERAL NOTE:

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- CONTRACTOR SHALL CENTER 15" RCP OVER SEWER MAIN AND CONNECT TO EXISTING RCP WITH CONCRETE PIPE COLLARS. SEE COF STANDARD DETAIL DR-15.

SEPTIC TANK NOTE:

- CONTRACTOR SHALL REPAIR ANY DAMAGE TO SEPTIC TANK AND/OR DRAIN FIELD, TO EXISTING OR BETTER CONDITION IN ACCORDANCE WITH ALL LOCAL AND STATE REGULATIONS. IMMEDIATELY UPON OCCURRENCE OF DAMAGE DURING CONSTRUCTION OF SEWER IMPROVEMENTS, CONTRACTOR SHALL PUMP AND HAUL SEPTIC CONTENTS AS NECESSARY DURING THE INTERIM BETWEEN SEPTIC SYSTEM DAMAGE AND REPAIR. NO SEPARATE PAYMENT.



PWC DWG # DS-15412

SCOTTSDALE DR-2
 ANNEXATION PHASE V, AREA 24, SECTIONS B & C
 FAYETTEVILLE, NORTH CAROLINA

FAYETTEVILLE PUBLIC WORKS COMMISSION
PWC WATER RESOURCES ENGINEERING
 P.O. Box 1089, Fayetteville, NC 28405
 855 06 Wilmington Road, Fayetteville, NC 28401

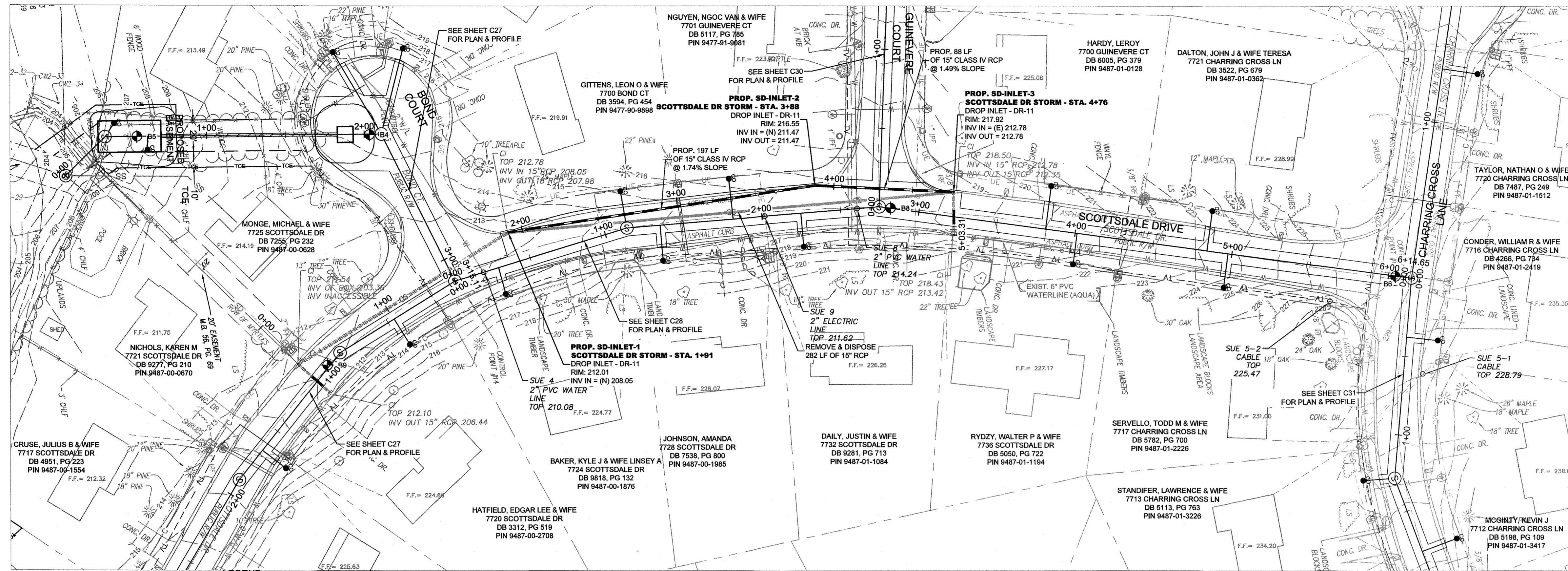
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 SURVEYED BY: STEWART
 DRAWN BY: AMH/DK
 CHECKED BY: TCH
 SCALE: HOR: 1"=40
 VERT: 1"=4

WILKINSON
 Transportation & Water Resources
 Engineering & Construction
 Raleigh, North Carolina 27607
 P: 919.762.2092
 www.wilkinson.com

PROFESSIONAL SEAL
 024984
 T. CHAMBERS
 ENGINEER

SHEET # C28

20190126.00.RA



LEGEND

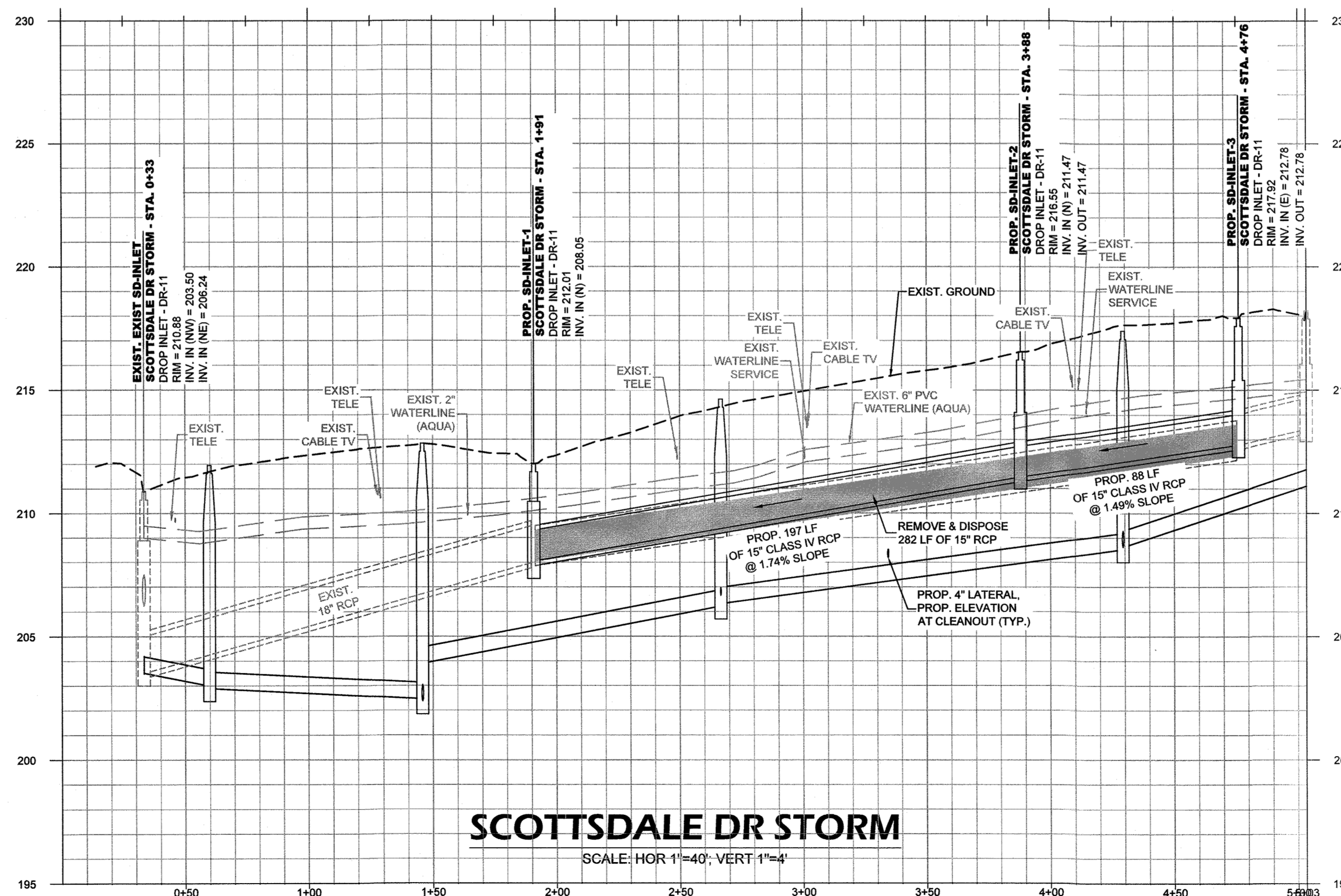
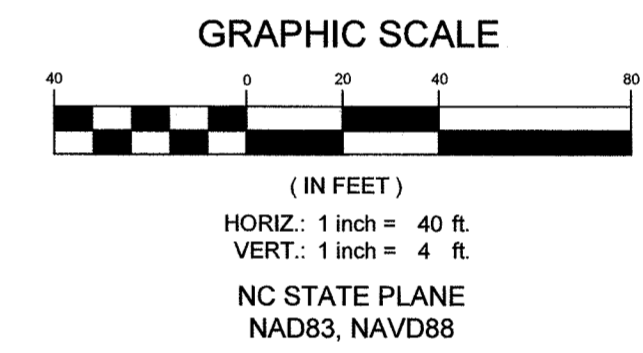
--- PROP. EASEMENT	--- PROP. SEWER, CLEAN OUT & MANHOLE	--- PROP. STORM DRAINAGE	--- PROP. WATER LINE & METER	--- SANITARY SEWER LINE & MANHOLE	--- WATER LINE & VALVE	--- UNDERGROUND GAS (APPROX. LOCATION)	--- COMMUNICATION LINE (APPROX. LOCATION)	--- UNDERGROUND ELECTRIC	--- UNDERGROUND TELEPHONE	--- UNDERGROUND FIBER OPTIC LINE	--- UNDERGROUND TELEVISION CABLE LINE									
--- PROP. TEMPORARY CONSTRUCTION EASEMENT	--- PROP. SAFETY FENCE	--- SOIL BORING LOCATION	--- PROP. REVERSE PLUMBING	--- PROP. BACKWATER VALVE	--- PROP. GRINDER PUMP	--- APPROX. EXIST. SEPTIC TANK	--- ELECT. PED.	--- IRON PIPE FOUND	--- WATER METER	--- IRRIGATION VALVE	--- ELECTRIC TRANSFORMER	--- TELEPHONE PEDISTAL	--- TELEVISION PEDISTAL	--- DRAINAGE MANHOLE	--- FIRE HYDRANT	--- MAILBOX	--- LIGHT POLE	--- DROP INLET	--- F.F. FINISH FLOOR	--- INV. INVERT

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PWC DWG # DS-15412

DATE	2/5/2021
REVISIONS	

SURVEYED BY	STEWART
DRAWN BY	AMH/DK
CHECKED BY	TCH
SCALE	HOR: 1"=40' VERT: 1"=4'

PWC
PUBLIC WORKS COMMISSION
TRANSPORTATION & WATER RESOURCES
200 Corporate Center Drive
Raleigh, North Carolina 27607
(919) 972-8472
www.pwcnc.com

SHEET # C-9

PWC
PUBLIC WORKS COMMISSION
TRANSPORTATION & WATER RESOURCES
200 Corporate Center Drive
Raleigh, North Carolina 27607
(919) 972-8472
www.pwcnc.com

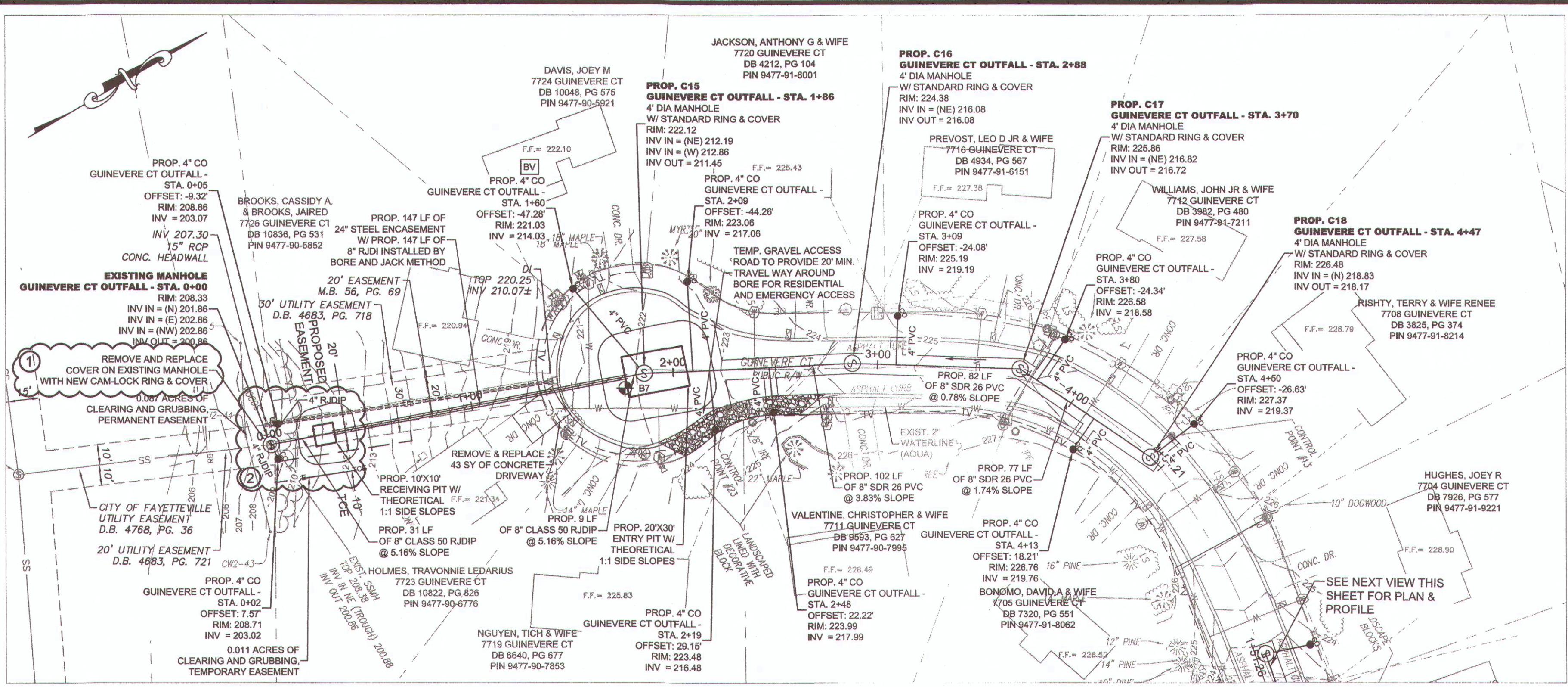
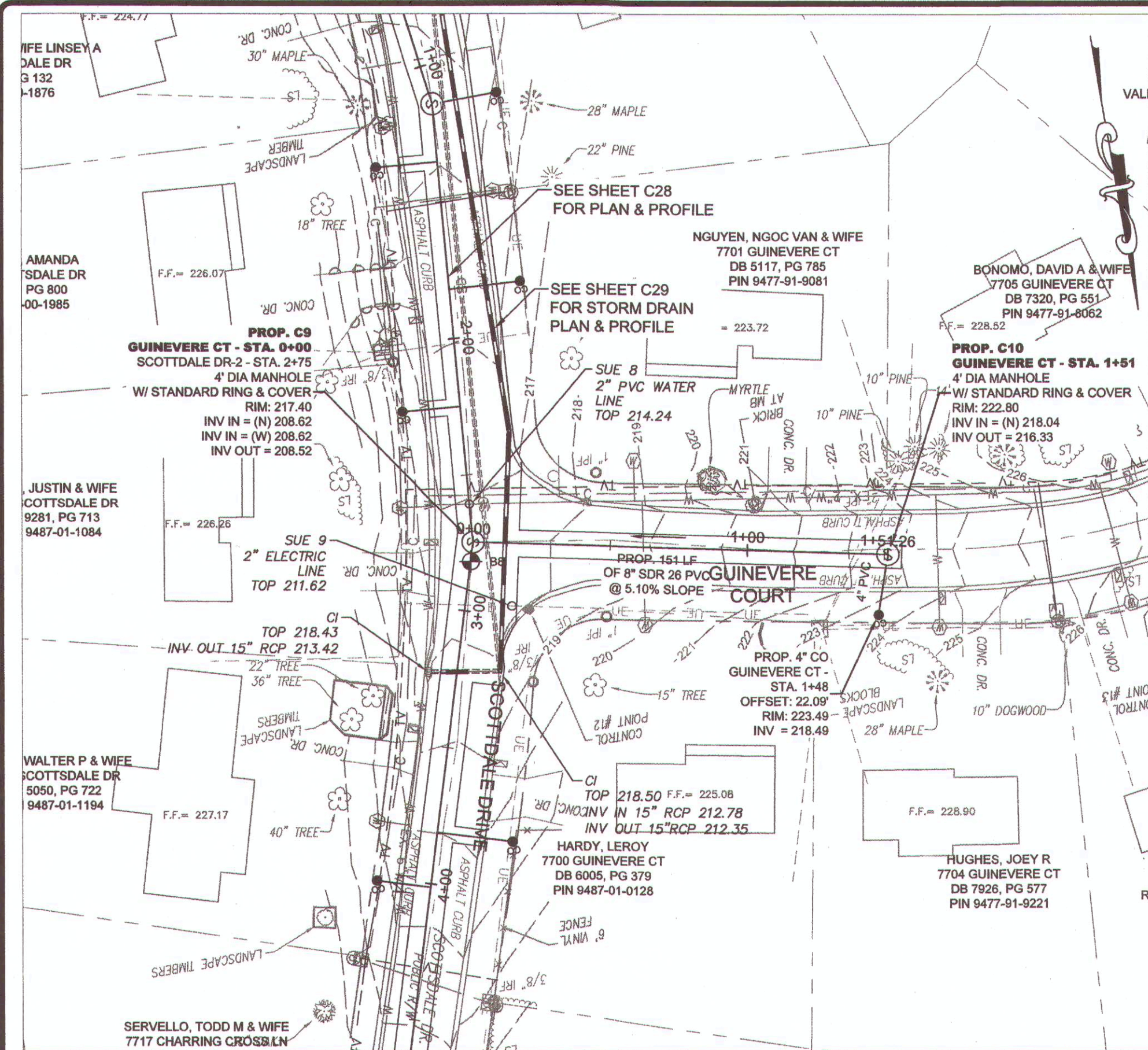
PROFESSIONAL SEAL
024984
KEVIN J. MCGINTY
REGISTERED PROFESSIONAL ENGINEER
STATE OF NORTH CAROLINA

SCOTTSDALE DR-2 STORM
ANNEXATION PHASE V, AREA 24, SECTIONS B & C
FAYETTEVILLE, NORTH CAROLINA

FAYETTEVILLE
PUBLIC WORKS COMMISSION
WATER RESOURCES ENGINEERING
P.A. Box 1088, Fayetteville, NC 28402
855 Old Wilmington Road, Fayetteville, NC 28301

PWC
PUBLIC WORKS COMMISSION
TRANSPORTATION & WATER RESOURCES

20190126.00.RA



LEGEND

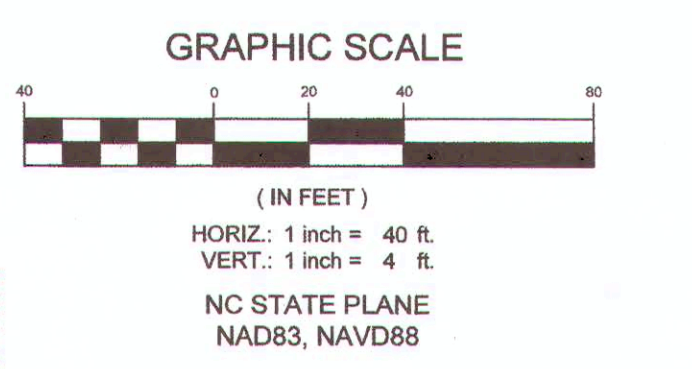
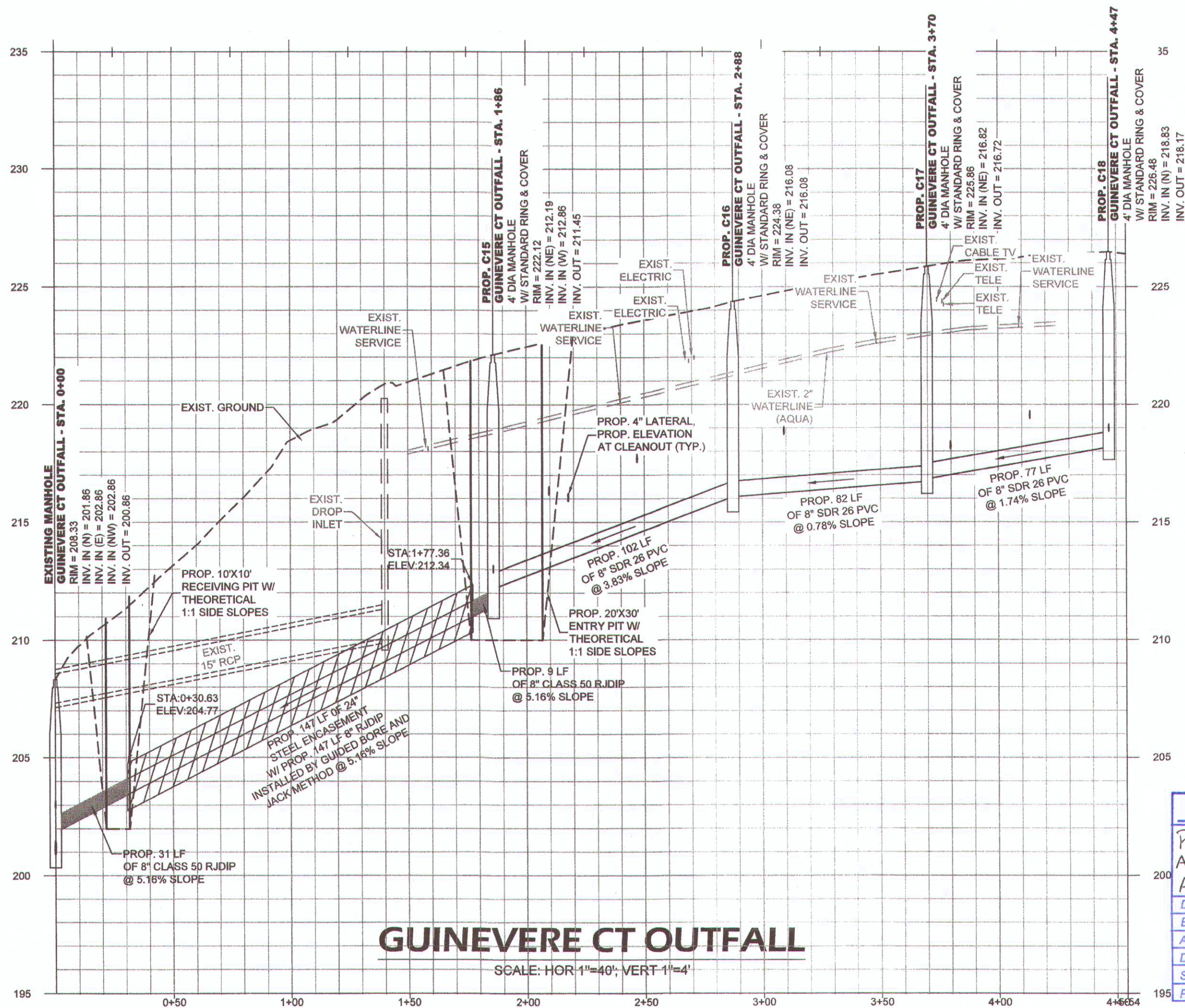
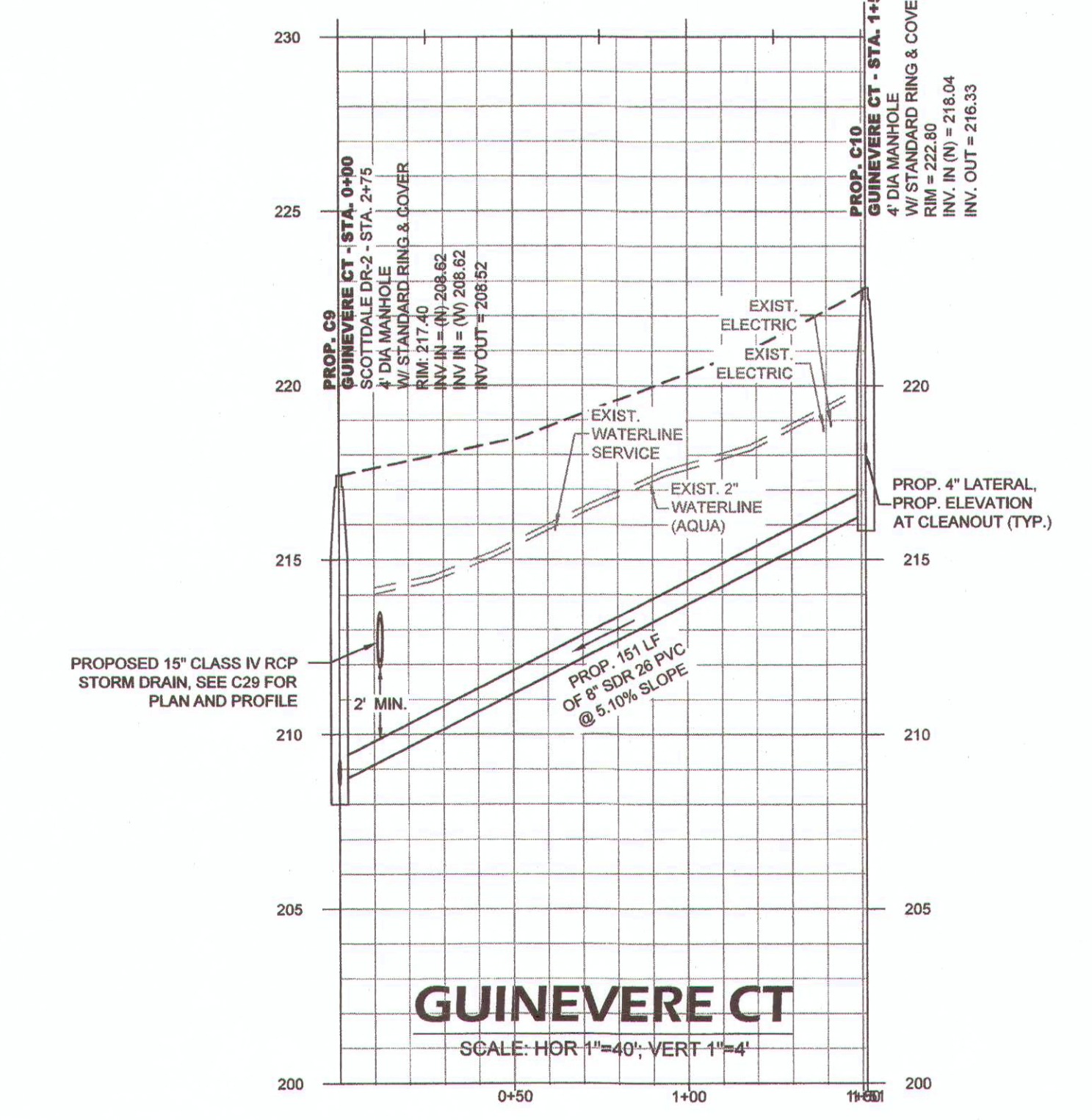
—	PROP. EASEMENT	—	PROP. TEMPORARY CONSTRUCTION EASEMENT
—	PROP. SEWER, CLEAN OUT & MANHOLE	—	WATER METER
—	PROP. STORM DRAINAGE	—	IRRIGATION VALVE
—	PROP. WATER LINE & METER	—	ELECTRIC TRANSFORMER
—	SANITARY SEWER LINE & MANHOLE	—	TELEPHONE PEDESTAL
—	WATER LINE & VALVE	—	TELEVISION PEDESTAL
—	UNDERGROUND GAS (APPROX. LOCATION)	—	DRAINAGE MANHOLE
—	COMMUNICATION LINE (APPROX. LOCATION)	—	FIRE HYDRANT
—	PROP. REVERSE PLUMBING	—	MAILBOX
—	PROP. BACKWATER VALVE	—	LIGHT POLE
—	PROP. GRINDER PUMP	—	POST
—	APPROX EXIST SEPTIC TANK	—	LAMP
—	ELECTRIC PEDESTAL	—	BUSH
—	CONCRETE MONUMENT	—	SIGN
—	IRON PIPE FOUND		

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PWC	FAYETTEVILLE PUBLIC WORKS COMMISSION
PHASE V ANNEXATION, VILLAGE HILLS AND KENS MELL SUBDIVISIONS	
AREA 24 B-C REVISION 1	
DRAWN BY: WJD	WO BS-2008096
ENG TECH: G.S.M.	WO # UJA
APPROVED BY: C.M.	PERMIT # UJA
DATE: 9/16/2011	PERMIT # PWC021-2005
SCALE: 1"=40'	DS-15412
PROJ#: 1900000083	# OF SHEETS: 5

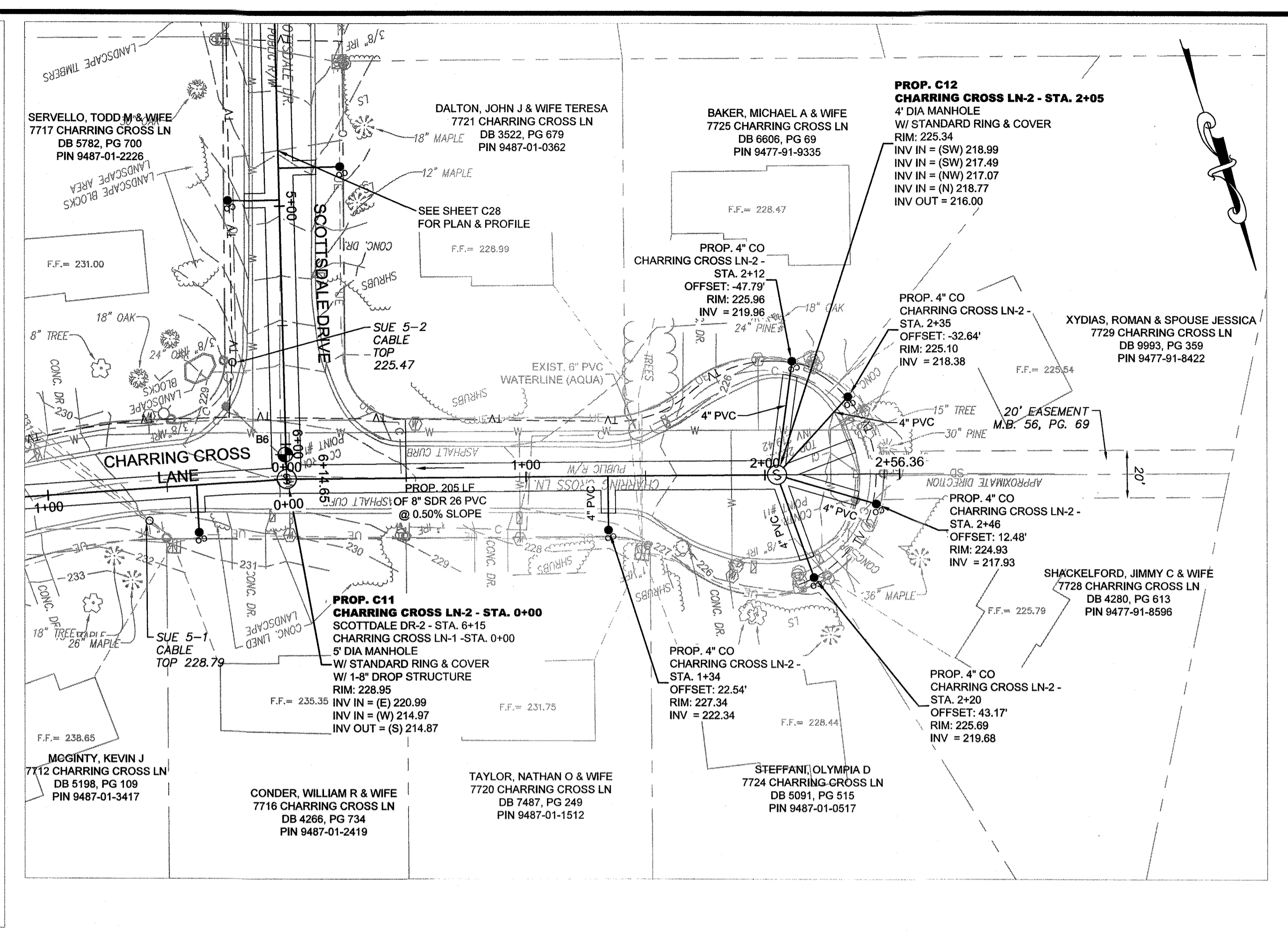
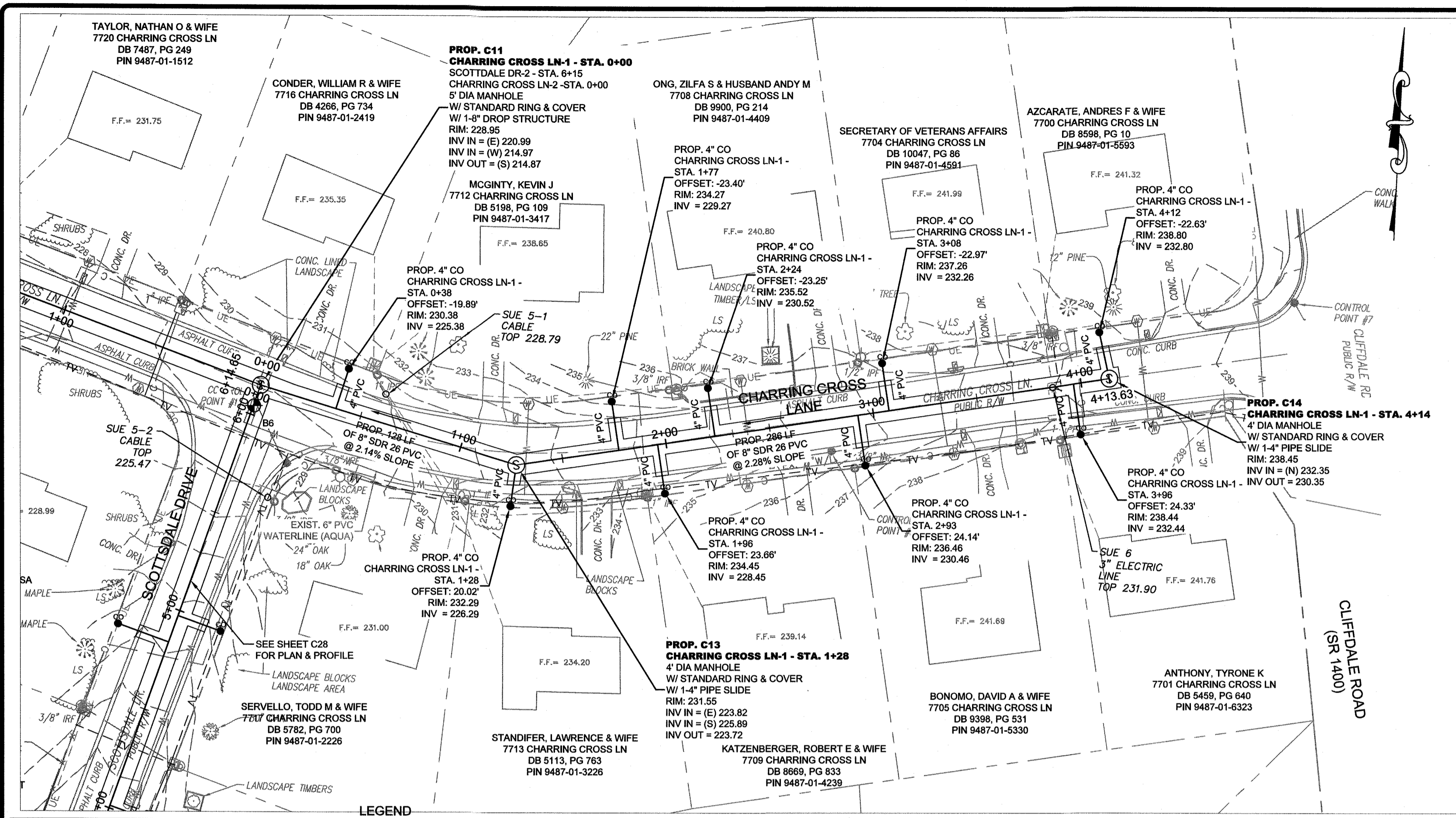
DATE: 2/5/2012
 SURVEYOR: BIL STEWART
 DRAWN BY: AMH/DK
 CHECKED BY: TCH
 SCALE: HOR: 1"=40' VERT: 1"=4'
 SHEET # C30

PWC
 FAYETTEVILLE PUBLIC WORKS COMMISSION
 WATER RESOURCES ENGINEERING
 P.O. Box 1888 Fayetteville, NC 28302
 855 Old Wilmington Road, Fayetteville, NC 28301

PROFESSIONAL SEAL
 024984
 T. CARTER

GUINEVERE CT & GUINEVERE CT OUTFALL
 ANNEXATION PHASE V, AREA 24, SECTIONS B & C
 FAYETTEVILLE, NORTH CAROLINA

PWC DWG # DS-15412
 20190126.00.RA



LEGEND

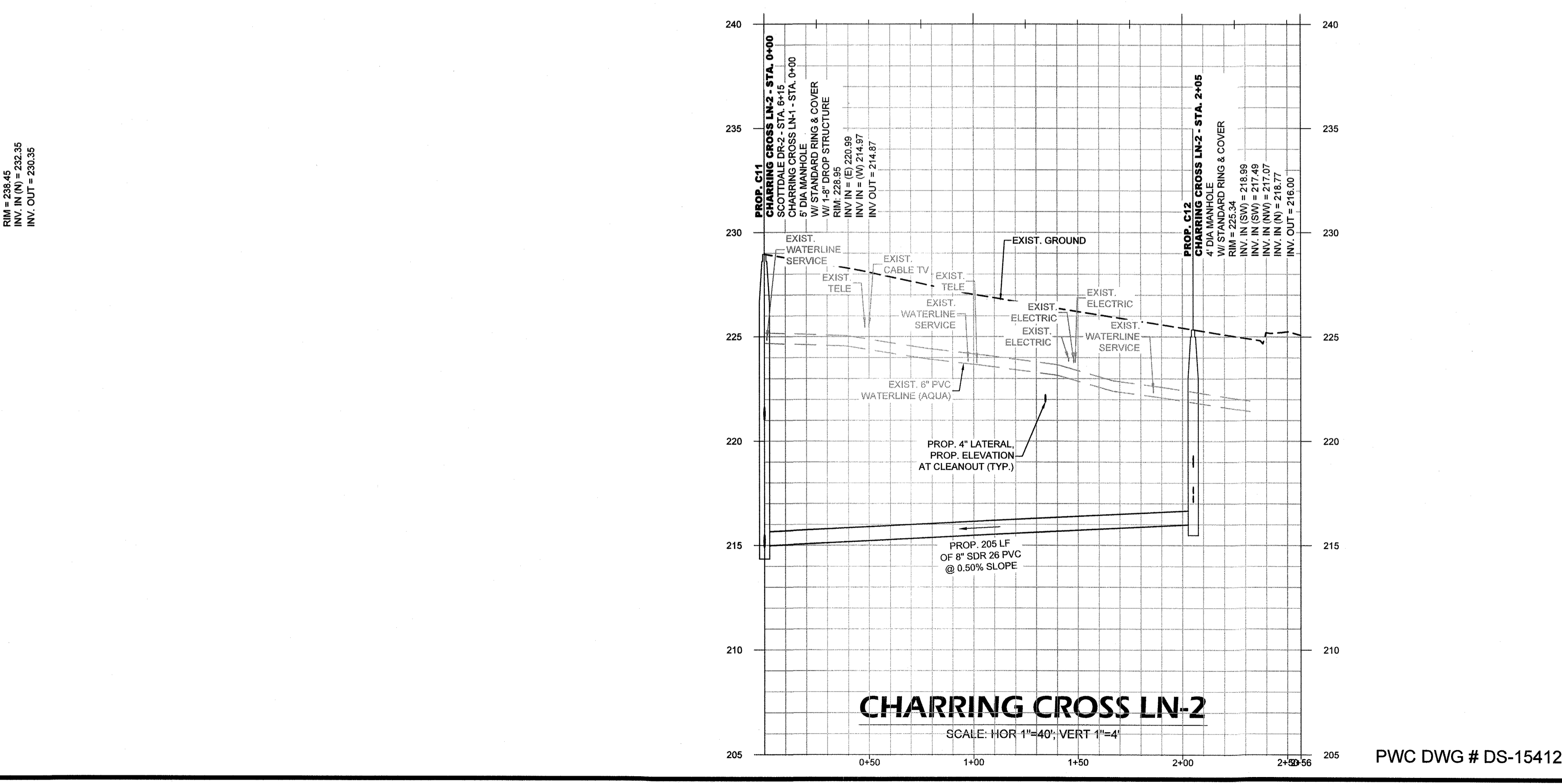
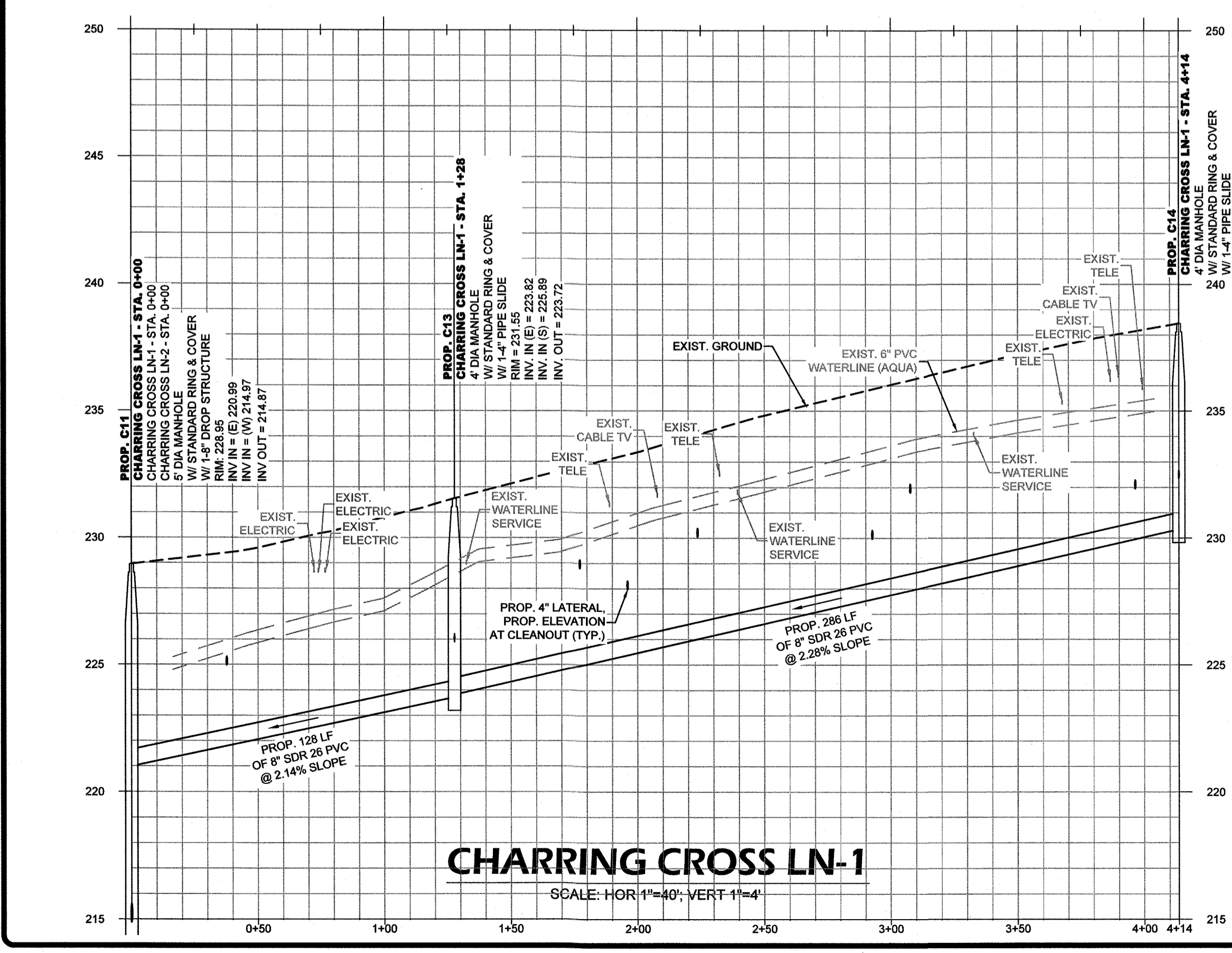
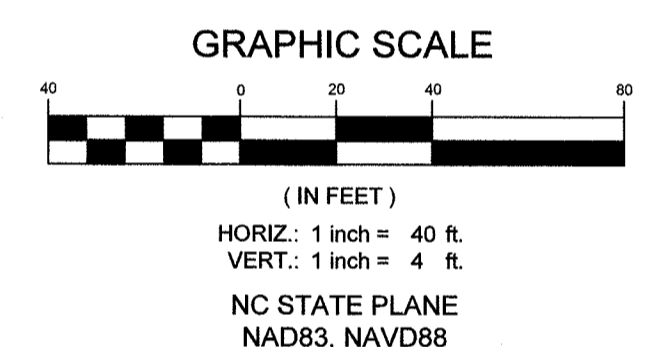
PROP. EASEMENT	PROP. TEMPORARY CONSTRUCTION EASEMENT	WATER METER
PROP. SEWER, CLEAN OUT & MANHOLE	PROP. SAFETY FENCE	IRRIGATION VALVE
PROP. STORM DRAINAGE	PROP. SOIL BORING LOCATION	ELECTRIC TRANSFORMER
PROP. WATER LINE & METER	SEE GEOTECHNICAL REPORT	TELEPHONE PEDESTAL
SANITARY SEWER LINE & MANHOLE	PROP. REVERSE PLUMBING	TELEVISION PEDESTAL
WATER LINE & VALVE	PROP. BACKWATER VALVE	DRAINAGE MANHOLE
UNDERGROUND GAS (APPROX. LOCATION)	PROP. GRINDER PUMP	FIRE HYDRANT
COMMUNICATION LINE (APPROX. LOCATION)	APPROX EXIST SEPTIC TANK	MAILBOX
UNDERGROUND ELECTRIC	ELECTRIC PEDESTAL	LIGHT POLE
UNDERGROUND TELEPHONE	CONCRETE MONUMENT	DROP INLET
UNDERGROUND FIBER OPTIC LINE	IRON PIPE FOUND	F.F. FINISH FLOOR
UNDERGROUND TELEVISION CABLE LINE		INVT. INVERT
		POST
		LAMP
		BUSH
		SIGN

GENERAL NOTE:

- CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE THE PROPOSED SEWER LATERAL INSTALLATION WITH THE EXISTING UTILITIES. CONTRACTOR SHALL USE PVC STANDARD DETAIL S.12 SEWER SERVICE LATERAL. UTILITY CONFLICT SEPARATION REQUIREMENTS ONLY WHEN APPROVED BY PWC PROJECT COORDINATOR.

SEPTIC TANK NOTE:

- CONTRACTOR SHALL REPAIR ANY DAMAGE TO SEPTIC TANK AND/OR DRAIN FIELD, TO EXISTING OR BETTER CONDITION IN ACCORDANCE WITH ALL LOCAL AND STATE REGULATIONS. IMMEDIATELY UPON OCCURRENCE OF DAMAGE DURING CONSTRUCTION OF SEWER IMPROVEMENTS. CONTRACTOR SHALL PUMP AND HULL SEPTIC CONTENTS AS NECESSARY DURING THE INTERIM BETWEEN SEPTIC SYSTEM DAMAGE AND REPAIR. NO SEPARATE PAYMENT.



BY: _____ DATE: _____

REVISIONS: _____

DATE: 2/5/2021

DESIGNED BY: STEWART

DRAWN BY: AMH/DK

CHECKED BY: TCH

HOR: 1"=40'

VERT: 1"=4'

SCALE: VERT. 1"=4'

WICKSON
COMMUNITY DEVELOPMENT CONSULTANTS
1720 Corporate Center Drive
Raleigh, North Carolina 27607
(919) 782-8872
WWW.WICKSON.COM

FOR NORTH CAROLINA PROFESSIONAL SEAL 021984

CHARRING CROSS-1 & CHARRING CROSS-2
ANNEXATION PHASE V, AREA 24, SECTIONS B & C
FAYETTEVILLE, NORTH CAROLINA

FAYETTEVILLE
PUBLIC WORKS COMMISSION
WATER RESOURCES ENGINEERING
P.O. Box 1895, Fayetteville, NC 28302
555 Old Wilmington Road, Fayetteville, NC 28301

PWC DWG # DS-15412

20190126.00.RA

SHEET # 33

PAVEMENT REPAIR NOTES

- CONTRACTOR SHALL SAW CUT OR MILL ALL PAVEMENTS STRAIGHT AND TRUE PRIOR TO TRENCHING. CONTRACTOR SHALL SAW CUT PATCH AREAS AGAIN IMMEDIATELY PRIOR TO PATCH PAVING. THE FINAL SAW CUT FOR PATCHES SHALL BE STRAIGHT WITH A NEAT SQUARE EDGE AND OF UNIFORM WIDTH PARALLEL WITH THE EDGE OF PAVEMENT/CURB LINE. THE FINAL PRODUCT SHALL BE SUBJECT TO THE OWNERS APPROVAL.
- CONTRACTOR SHALL SWEEP STREETS AND PROVIDE DUST CONTROL AT ALL TIMES VIA WATER TRUCK, BROOMS, COMPACTORS, ETC. DEBRIS FROM SWEEPING OPERATIONS SHALL NOT BE DIRECTED TOWARD YARDS. CLEAN UP OF DEBRIS, TRASH, EXCESS MATERIALS ETC. SHALL BE PERFORMED DAILY.
- ANY TRENCHES OPENED FOR PAVING SHALL BE PAVED BY THE END OF THE SAME DAY. IF WEATHER CONDITIONS CHANGE, EQUIPMENT BREAKS DOWN, OR ANY OTHER OCCURRENCE THAT STOPS THE PAVING OPERATIONS OCCURS, BACKFILL ALL PREPARED AREAS SO THEY ARE PASSABLE BY TRAFFIC.
- THE CONTRACTOR SHALL PATCH PAVE SERVICE LATERALS ON THE SAME DAY THAT MAIN LINE TRENCHES ARE PAVED. LATERALS SHALL BE PATCHED ON BOTH SIDES OF THE STREET AS PAVING PROGRESSES.
- THE CONTRACTOR SHALL BE REQUIRED TO IMPLEMENT PROPER TRAFFIC CONTROL PROVISIONS AND ANY DEVICES REQUIRED TO IDENTIFY OBSTRUCTIONS OR HAZARDS WITHIN THE RIGHT-OF-WAY TO INCLUDE REFLECTIVE CONES AT EACH SERVICE LATERAL, REFLECTIVE BARRELS OR RAISED MANHOLES, ETC.
- AT NO TIME SHALL THE CONTRACTOR LEAVE UNATTENDED AND/OR IMPROPERLY SECURE MAIN OR LATERAL TRENCHES WITH A VERTICAL ELEVATION DROP EXCEEDING 1" FROM EXISTING ASPHALT TO TRENCH SUB GRADE UNATTENDED OR OVERNIGHT.

FAYETTEVILLE PUBLIC WORKS COMMISSION FAYETTEVILLE, N.C.		NO.	DATE	REVISION
WATER RESOURCES ENGINEERING DEPARTMENT		1	07/10	REVISED, DELETED NOTES

DATE: JAN. 01, 2021 APPROVED BY: J.E.G.

PERMANENT PAVEMENT PATCH

NOTES:

- CONTRACTOR SHALL PATCH PAVEMENT TO THE SAME PAVEMENT PROFILE AS EXISTED PRIOR TO REMOVING PAVEMENT.
- WHERE PATCH OF ASPHALT CURBING OCCURS CONTRACTOR SHALL MATCH EXISTING CURB GRADEN WITHIN 0.02 FEET. PATCHES THAT ARE ABOVE THE CURB GRADE LINE WILL NOT BE ACCEPTABLE AND SHALL BE REMOVED AND REPLACED. CURB PATCH SHALL BE THE SAME SHAPE/TEMPLATE AS THE EXISTING CURB.
- CONTRACTOR SHALL BE REQUIRED TO PROVIDE TRAFFIC CONTROL AND DEVICES AS REQUIRED BY THE M.U.T.C.D. OR NC SUPPLEMENT. WORK CANNOT PROCEED UNTIL THE MEASURES ARE IN PLACE. CONTRACTOR SHALL BE RESPONSIBLE TO PROTECT NEW PAVEMENT FROM TRAFFIC AND OTHER SOURCES OF DAMAGE UNTIL ASPHALT HAS SUFFICIENTLY COOLED TO PREVENT DAMAGE.
- CONTRACTOR SHALL SAWCUT EXISTING PAVEMENT STRAIGHT AND TRUE IMMEDIATELY PRIOR TO PAVING. THE FINAL PRODUCT SHALL BE SUBJECT TO THE OWNERS APPROVAL.
- PATCH PAVING ON NCDOT MAINTAINED ROADS SHALL BE IN ACCORDANCE WITH THE APPROVED NCDOT ENCROACHMENT.
- PROVIDE A MINIMUM OF 2" PAVEMENT (99.5), IF THE EXISTING PAVEMENT IS 2" OR LESS, MATCH EXISTING PAVEMENT THICKNESS IF OVER 2".
- FOR PATCHES UP TO 4" THICK, PLACE 99.5 IN 2 LIFTS.
- FOR PATCHES OVER 4" THICK, PLACE BINDER (1-19.0) TO 2" BELOW SURFACE, INSTALL BINDER IN 2" (MAX.) LIFTS. THE FINAL 2" SHALL BE SURFACE (99.5).
- ALL PATCHES SHALL HAVE A MINIMUM OF 8" ABC UNDER ALL PAVEMENT, INCLUDING CURB AS REQUIRED.

FAYETTEVILLE PUBLIC WORKS COMMISSION FAYETTEVILLE, N.C.		NO.	DATE	REVISION
WATER RESOURCES ENGINEERING DEPARTMENT		1	01/07	CHANGED ASPHALT MIX
		2	09/10	REVISED, DELETED NOTES

DATE: JAN. 01, 2021 APPROVED BY: J.E.G.

TEMPORARY PAVEMENT PATCH

NOTES:

- CONTRACTOR SHALL PATCH PAVEMENT TO THE SAME PAVEMENT PROFILE AS EXISTED PRIOR TO REMOVING PAVEMENT.
- WHERE PATCH OF ASPHALT CURBING OCCURS CONTRACTOR SHALL MATCH EXISTING CURB GRADEN WITHIN 0.02 FEET. PATCHES THAT ARE ABOVE THE CURB GRADE LINE WILL NOT BE ACCEPTABLE AND SHALL BE REMOVED AND REPLACED. CURB PATCH SHALL BE THE SAME SHAPE/TEMPLATE AS THE EXISTING CURB.
- CONTRACTOR SHALL BE REQUIRED TO PROVIDE TRAFFIC CONTROL AND DEVICES AS REQUIRED BY THE M.U.T.C.D. OR NC SUPPLEMENT. WORK CANNOT PROCEED UNTIL THE MEASURES ARE IN PLACE.
- CONTRACTOR SHALL SAWCUT EXISTING PAVEMENT STRAIGHT AND TRUE IMMEDIATELY PRIOR TO PAVING. THE FINAL PRODUCT SHALL BE SUBJECT TO THE OWNERS APPROVAL.
- PATCH PAVING ON NCDOT MAINTAINED ROADS SHALL BE IN ACCORDANCE WITH THE APPROVED NCDOT ENCROACHMENT.

FAYETTEVILLE PUBLIC WORKS COMMISSION FAYETTEVILLE, N.C.		NO.	DATE	REVISION
WATER RESOURCES ENGINEERING DEPARTMENT		1	01/07	CHANGED ASPHALT MIX
		2	09/10	REVISED, DELETED NOTES
		3	10/16	EDITED 1-19.0 ASPHALT CONCRETE

DATE: JAN. 01, 2021 APPROVED BY: J.E.G.

ASPHALT DRIVEWAY/ PARKING LOT PATCH

NOTES:

- CONTRACTOR SHALL PATCH PAVEMENT TO THE SAME PAVEMENT PROFILE AND SHAPE AS EXISTED PRIOR TO REMOVING PAVEMENT.
- CONTRACTOR SHALL BE REQUIRED TO PROVIDE TRAFFIC CONTROL AND DEVICES AS REQUIRED BY THE M.U.T.C.D. OR NC SUPPLEMENT. WORK CANNOT PROCEED UNTIL THE MEASURES ARE IN PLACE. CONTRACTOR SHALL BE RESPONSIBLE TO PROTECT NEW PAVEMENT FROM TRAFFIC AND OTHER SOURCES OF DAMAGE UNTIL ASPHALT HAS SUFFICIENTLY COOLED TO PREVENT DAMAGE.
- CONTRACTOR SHALL SAWCUT EXISTING PAVEMENT STRAIGHT AND TRUE IMMEDIATELY PRIOR TO PAVING. THE FINAL PRODUCT SHALL BE SUBJECT TO THE OWNERS APPROVAL.
- UNDER NO CIRCUMSTANCES SHALL THE DISTURBED AREA EXTEND BEYOND THE RIGHT-OF-WAY AND/OR THE EASEMENT LIMITS.

FAYETTEVILLE PUBLIC WORKS COMMISSION FAYETTEVILLE, N.C.		NO.	DATE	REVISION
WATER RESOURCES ENGINEERING DEPARTMENT		1	09/10	REVISED, DELETED NOTES

DATE: JAN. 01, 2021 APPROVED BY: J.E.G.

CONCRETE DRIVEWAY PATCH

NOTES:

- CONTRACTOR SHALL REPLACE PAVEMENT TO THE SAME CROSS SECTION AS EXISTED PRIOR TO REMOVAL.
- CONTRACTOR SHALL BE REQUIRED TO PROVIDE TRAFFIC CONTROL AND DEVICES AS REQUIRED BY THE M.U.T.C.D. OR NC SUPPLEMENT. WORK CANNOT PROCEED UNTIL THE MEASURES ARE IN PLACE. CONTRACTOR SHALL BE RESPONSIBLE TO PROTECT NEW PAVEMENT FROM TRAFFIC AND OTHER SOURCES OF DAMAGE.
- UNDER NO CIRCUMSTANCES SHALL THE DISTURBED AREA EXTEND BEYOND THE RIGHT-OF-WAY AND/OR THE EASEMENT LIMITS. UNLESS OTHERWISE APPROVED BY THE FAYPWC PROJECT COORDINATOR.
- THE FINAL PRODUCT SHALL BE SUBJECT TO THE OWNERS APPROVAL.
- SAWCUT CONCRETE DRIVE STRAIGHT AND TRUE. JAGGED SAWCUTS SHALL NOT BE ACCEPTABLE. SAWCUTS SHALL BE STRAIGHT UNIFORM WIDTHS PERPENDICULAR TO THE DRIVEWAY.
- MINIMUM RESIDENTIAL CONCRETE DRIVEWAY THICKNESS SHALL BE 4". MINIMUM COMMERCIAL CONCRETE DRIVEWAY THICKNESS SHALL BE 7".
- CONTRACTOR SHALL CONTACT THE CITY OF FAYETTEVILLE'S CONSTRUCTION MANAGEMENT DEPARTMENT AT (910) 433-1655 A MINIMUM OF 24 HOURS IN ADVANCE FOR AN INSPECTION OF THE CONCRETE FORMS.
- PROVIDE EXPANSION JOINT(S) AS REQUIRED BY THE CITY OF FAYETTEVILLE FOR FUTURE SIDEWALK PLACEMENT.
- CURING COMPOUND SHALL BE UTILIZED, AS SPECIFIED BY THE CITY OF FAYETTEVILLE.
- NEW EXPANSION JOINTS SHALL BE PLACED TO 4 TO 10 FEET FROM EXISTING EXPANSION JOINTS, AS SPECIFIED BY THE FAYPWC PROJECT COORDINATOR.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH CITY OF FAYETTEVILLE REQUIREMENTS.

FAYETTEVILLE PUBLIC WORKS COMMISSION FAYETTEVILLE, N.C.		NO.	DATE	REVISION
WATER RESOURCES ENGINEERING DEPARTMENT		1	01/07	CHANGED ASPHALT MIX
		2	09/10	REVISED, DELETED NOTES

DATE: JAN. 01, 2021 APPROVED BY: J.E.G.

BORE UNDER ROADWAYS/RAILROADS

NOTES:

- CONTRACTOR SHALL REPLACE PAVEMENT TO THE SAME CROSS SECTION AS EXISTED PRIOR TO REMOVAL.
- CONTRACTOR SHALL BE REQUIRED TO PROVIDE TRAFFIC CONTROL AND DEVICES AS REQUIRED BY THE M.U.T.C.D. OR NC SUPPLEMENT. WORK CANNOT PROCEED UNTIL THE MEASURES ARE IN PLACE. CONTRACTOR SHALL BE RESPONSIBLE TO PROTECT NEW PAVEMENT FROM TRAFFIC AND OTHER SOURCES OF DAMAGE.
- UNDER NO CIRCUMSTANCES SHALL THE DISTURBED AREA EXTEND BEYOND THE RIGHT-OF-WAY AND/OR THE EASEMENT LIMITS. UNLESS OTHERWISE APPROVED BY THE FAYPWC PROJECT COORDINATOR.
- THE FINAL PRODUCT SHALL BE SUBJECT TO THE OWNERS APPROVAL.
- SAWCUT CONCRETE DRIVE STRAIGHT AND TRUE. JAGGED SAWCUTS SHALL NOT BE ACCEPTABLE. SAWCUTS SHALL BE STRAIGHT UNIFORM WIDTHS PERPENDICULAR TO THE DRIVEWAY.
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- PROVIDE EXPANSION JOINT(S) AS REQUIRED BY THE CITY OF FAYETTEVILLE FOR FUTURE SIDEWALK PLACEMENT.
- CURING COMPOUND SHALL BE UTILIZED, AS SPECIFIED BY THE CITY OF FAYETTEVILLE.
- NEW EXPANSION JOINTS SHALL BE PLACED TO 4 TO 10 FEET FROM EXISTING EXPANSION JOINTS, AS SPECIFIED BY THE FAYPWC PROJECT COORDINATOR.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH CITY OF FAYETTEVILLE REQUIREMENTS.

FAYETTEVILLE PUBLIC WORKS COMMISSION FAYETTEVILLE, N.C.		NO.	DATE	REVISION
WATER RESOURCES ENGINEERING DEPARTMENT		1	01/05	ADDED NOTES 2 AND 3
		2	10/09	CLARIFIED RESTRAINT REQUIREMENTS

DATE: JAN. 01, 2021 APPROVED BY: J.E.G.

BORE UNDER ROADWAYS/RAILROADS

CARRIER PIPE SIZE	MIN. CASING SIZE	MIN. WALL THICKNESS	RAILROADS MIN. WALL THICKNESS
4"	10"	0.188"	0.188"
6"	12"	0.25"	0.25"
8"	16"	0.25"	0.281"
12"	24"	0.312"	0.375"
16"	30"	0.312"	0.469"
18"	30"	0.312"	0.469"
24"	36"	0.375"	0.532"
30"	42"	0.500"	0.625"
36"	48"	0.500"	0.688"

NOTES:

- INSTALLATION SHALL BE DRY BORE AND JACKING OF SMOOTH WALL STEEL PIPE. JETTING OR WET BORING WITH WATER SHALL NOT BE ALLOWED.
- SEE BORE SIZING CHART FOR CARRIER PIPE SIZE AND STEEL CASING SIZE. MINIMUM DIAMETER AND WALL THICKNESS.
- CASING PIPE SHALL BE IN ACCORDANCE WITH ASTM A63, GRADE B WITH A MINIMUM YIELD STRENGTH OF 35,000PSI.
- EACH END OF ENCASMENT TO BE PLUGGED WITH BRICK. ALL VOIDS OUTSIDE THE CASING PIPE SHALL BE COMPLETELY FILLED WITH 1:3 PORTLAND CEMENT GROUT AT SUFFICIENT PRESSURE TO INSURE NO SETTLEMENT OF ROADWAY/RAILROAD. METHOD OF GROUTING SHALL BE AS APPROVED BY THE PERMITTING AGENCY.
- IT IS RECOMMENDED THAT THE BORE BE ACCOMPLISHED BEFORE PIPE CONSTRUCTION BEGINS.
- THE BORING SHALL BE PERFORMED FROM "UPSTREAM" TO "DOWNSTREAM" DIRECTION MAINTAINING THE CRITICAL DOWNSTREAM INVERT ELEVATION. SHOULD THE BORE NOT BE ON GRADE, A REVISED PLAN SHALL BE SUBMITTED TO FAYPWC FOR APPROVAL.
- THE BORING OPERATION SHALL BE CONDUCTED IN A MANNER THAT THE FLOW OF TRAFFIC IS NOT IMPEDED OR IN SUCH A MANNER SO AS NOT TO CREATE A HAZARD.
- IF AN OBSTRUCTION IS ENCOUNTERED DURING THE BORING OPERATION, THE AUGER SHALL BE WITHDRAWN, THE EXCESS CASING PIPE CUT-OFF, CAPPED AND THE INTERIOR AND EXTERIOR VOIDS SHALL BE COMPLETELY FILLED WITH 1:3 PORTLAND CEMENT GROUT UNDER PRESSURE. NO SEPARATE PAYMENT FOR UNSUCCESSFUL BORES.
- CONTRACTOR SHALL FIELD ADJUST AND INSTALL PROPER PIPE BRACES TO ACCOMPLISH GRADE AND INVERTS AS SHOWN ON THE DRAWING.
- A MANUAL CONTROL STEERING HEAD OR OTHER GUIDANCE SYSTEM IS RECOMMENDED FOR BORES 30" DIAMETER AND/OR LARGER AND FOR BORES EXCEEDING 100' IN LENGTH OR AS SPECIFIED.
- SUBCONTRACTORS SHALL ADHERE TO ALL PERMIT REQUIREMENTS AND SHALL PROVIDE APPROVED INSURANCE CERTIFICATES AS REQUIRED.
- CONTRACTOR SHALL EXECUTE AND PERFORM ALL REQUIREMENTS AND CONDITIONS STIPULATED BY THE PERMITTING AGENCY.
- SEE DRAWING M.6 SHEET 1 OF 2 FOR ADDITIONAL INFORMATION.
- CARRIER PIPE FOR PRESSURE APPLICATIONS (WATER MAINS AND FORCE MAINS) SHALL HAVE FACTORY RESTRAINED JOINTS. CARRIER PIPE FOR GRAVITY SEWER SHALL HAVE RESTRAINED JOINTS AND MAY USE RESTRAINING GASKETS SUCH AS FIELD LOC, SURE STOP 350 OR OTHER APPROVED GASKETS.

FAYETTEVILLE PUBLIC WORKS COMMISSION FAYETTEVILLE, N.C.		NO.	DATE	REVISION
WATER RESOURCES ENGINEERING DEPARTMENT		1	02/11/04	ADDED CARRIER PIPE TO BORE SIZING CHART
		2	07/10	REVISED NOTES, SIZING CHART

DATE: JAN. 01, 2021 APPROVED BY: J.E.G.

FIGURE TA-20 DETOUR FOR CLOSED STREET

NOTES:

- DISPLAY SIMILAR SIGNS AND DEVICES FOR THE OPPOSITE MOVEMENT.
- USE THIS PLAN FOR CITY STREETS.
- THE USE OF A STREET NAME SIGN MOUNTED WITH THE M-9 DETOUR SIGN IS OPTIONAL. WHEN USED, THE STREET NAME PLATE SHALL BE PLACED ABOVE THE DETOUR SIGN. THE PLATE SHALL HAVE BLACK ON DIAMOND GRADE ORANGE LEGEND.
- AN M-9 DETOUR SIGN WITH AN ADVANCE TURN ARROW MAY BE USED IN ADVANCE OF A TURN, ON MULTILANE STREETS SUCH SIGNS SHALL BE USED.
- FLASHING WARNING LIGHTS AND/OR FLAGS MAY BE USED TO CALL ATTENTION TO THE ADVANCED WARNING SIGNS.
- WARNING LIGHTS MAY BE USED ON TYPE III BARRICADE.
- M-9 DETOUR SIGNS MAY BE LOCATED ON THE FAR SIDE OF THE INTERSECTIONS.
- THIS STANDARD DERIVED FROM PART VI OF THE M.U.T.C.D., (STANDARDS AND GUIDES FOR STREET AND HIGHWAY CONSTRUCTION, MAINTENANCE, UTILITY, AND INCIDENT MANAGEMENT OPERATIONS) ISSUED APRIL 1995.

FAYETTEVILLE PUBLIC WORKS COMMISSION FAYETTEVILLE, N.C.		NO.	DATE	REVISION
WATER RESOURCES ENGINEERING DEPARTMENT		1	02/11/04	ADDED CARRIER PIPE TO BORE SIZING CHART
		2	07/10	REVISED NOTES, SIZING CHART

DATE: JAN. 01, 2021 APPROVED BY: J.E.G.

FIGURE TA-10 LANE CLOSURE ONE LANE TWO-WAY TRAFFIC

NOTES:

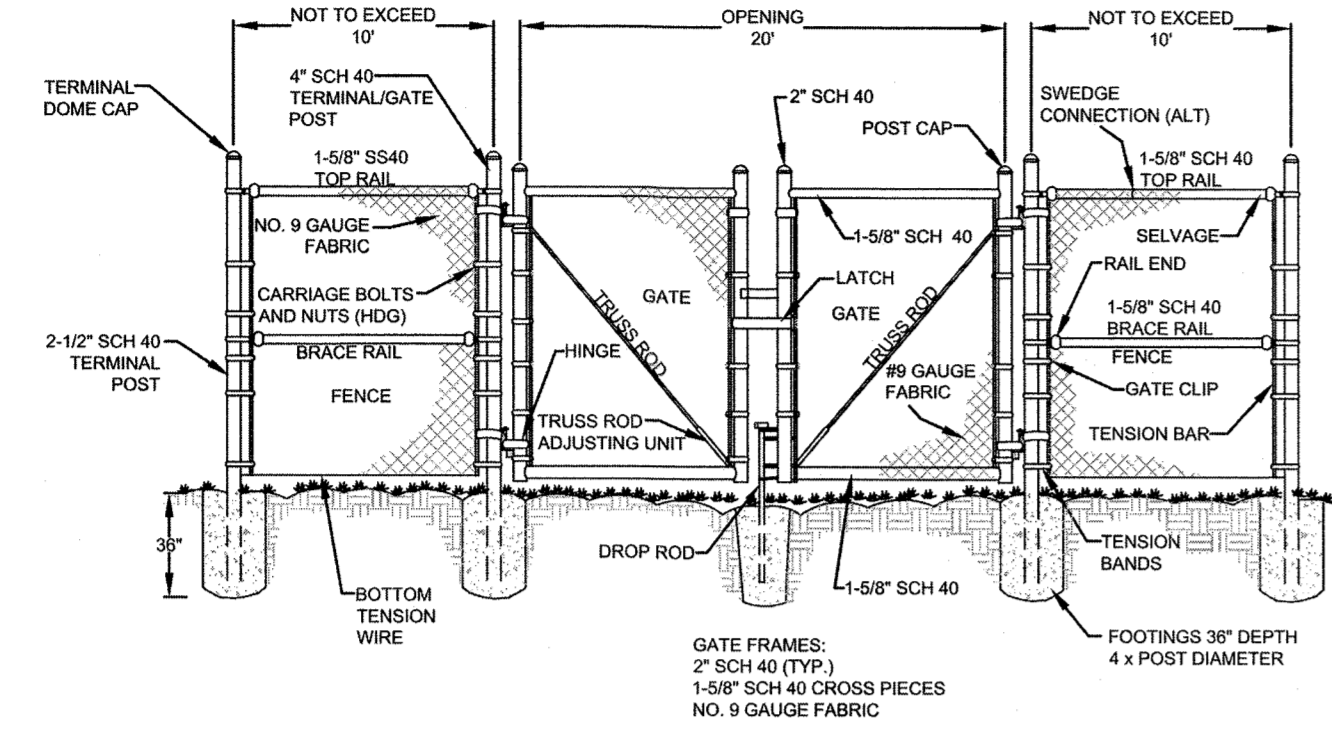
- FLOODLIGHTS SHOULD BE PROVIDED TO MARK FLAGGER STATIONS AT NIGHT AS NEEDED.
- FOR LOW VOLUME APPLICATIONS, A SINGLE FLAGGER MAY BE ADEQUATE. WHERE ONE FLAGGER CAN BE USED, SUCH AS FOR SHORT WORK AREAS ON STRAIGHT ROADWAYS, THE FLAGGER MUST BE VISIBLE TO APPROACHING TRAFFIC FROM BOTH DIRECTIONS. CHANNELIZING DEVICES ARE TO BE EXTENDED TO A POINT WHERE THEY ARE VISIBLE TO APPROACHING TRAFFIC.
- THE ROAD WORK AHEAD AND THE END ROAD WORK SIGNS MAY BE OMITTED FOR SHORT DURATION OPERATIONS.
- FLASHING WARNING LIGHTS AND/OR FLAGS MAY BE USED TO CALL ATTENTION TO THE ADVANCED WARNING SIGNS.
- THIS STANDARD DERIVED FROM PART VI OF THE M.U.T.C.D., (STANDARDS AND GUIDES FOR STREET AND HIGHWAY CONSTRUCTION MAINTENANCE, UTILITY, AND INCIDENT MANAGEMENT OPERATIONS) ISSUED APRIL 1995.

FAYETTEVILLE PUBLIC WORKS COMMISSION FAYETTEVILLE, N.C.		NO.	DATE	REVISION
WATER RESOURCES ENGINEERING DEPARTMENT		1	02/11/04	ADDED CARRIER PIPE TO BORE SIZING CHART
		2	07/10	REVISED NOTES, SIZING CHART

DATE: JAN. 01, 2021 APPROVED BY: J.E.G.

DATE: 2/5/2021
 DRAWN BY: AMH/DK
 CHECKED BY: TCH
 SCALE: HOR: 1"=10'
 VERT: 1"=10'
 SHEET # 3
 SHEET SERIES-FINAL DESIGN - BID PLANS
 PWC DWG # DS-15513
 20190126.00.RA
 MISCELLANEOUS DETAILS
 ANNEXATION PHASE V, AREA 24, SECTIONS B & C
 FAYETTEVILLE, NORTH CAROLINA
 FAYETTEVILLE PUBLIC WORKS COMMISSION
 WATER RESOURCES ENGINEERING
 P.O. Box 1084, Fayetteville, NC 28302
 585 Old Wilmington Road, Fayetteville, NC 28301

- NOTES:
- HEIGHT OF FENCE SHALL BE 6 FEET, UNLESS OTHERWISE APPROVED BY FAYPWC.
 - USE OF COATED AND/OR PLASTIC COATED FABRIC MAY BE REQUIRED TO MATCH EXISTING FENCING. COLOR AND TYPE OF FABRIC TO BE APPROVED BY FAYPWC.
 - WIDTH OF FENCE AND/OR GATES SHALL BE AS APPROVED BY FAYPWC.
 - FAYPWC TO PROVIDE LOCK AND CHAIN.
 - LOCATION OF GATE WITHIN FAYPWC EASEMENT TO BE AS DIRECTED AND APPROVED BY FAYPWC.



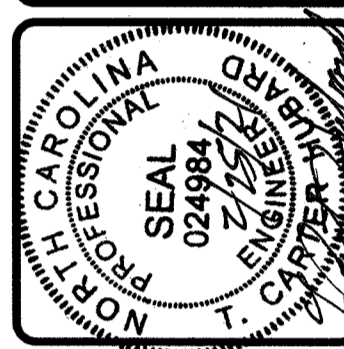
TYPICAL CHAIN LINK GATE AND FENCING N.T.S.		FAYETTEVILLE PUBLIC WORKS COMMISSION FAYETTEVILLE, N.C.		NO.	DATE	REVISION
SHEET NO. 1 OF 1	DWG. NO. M.17	DWG. BY: FAYPWC	WATER RESOURCES ENGINEERING DEPARTMENT			
	DATE: JAN. 01, 2021	APPROVED BY: J.E.G.				

M17-TYPICAL-CHAINLINK-GATE-AND-FENCE.dwg

DATE	REVISIONS

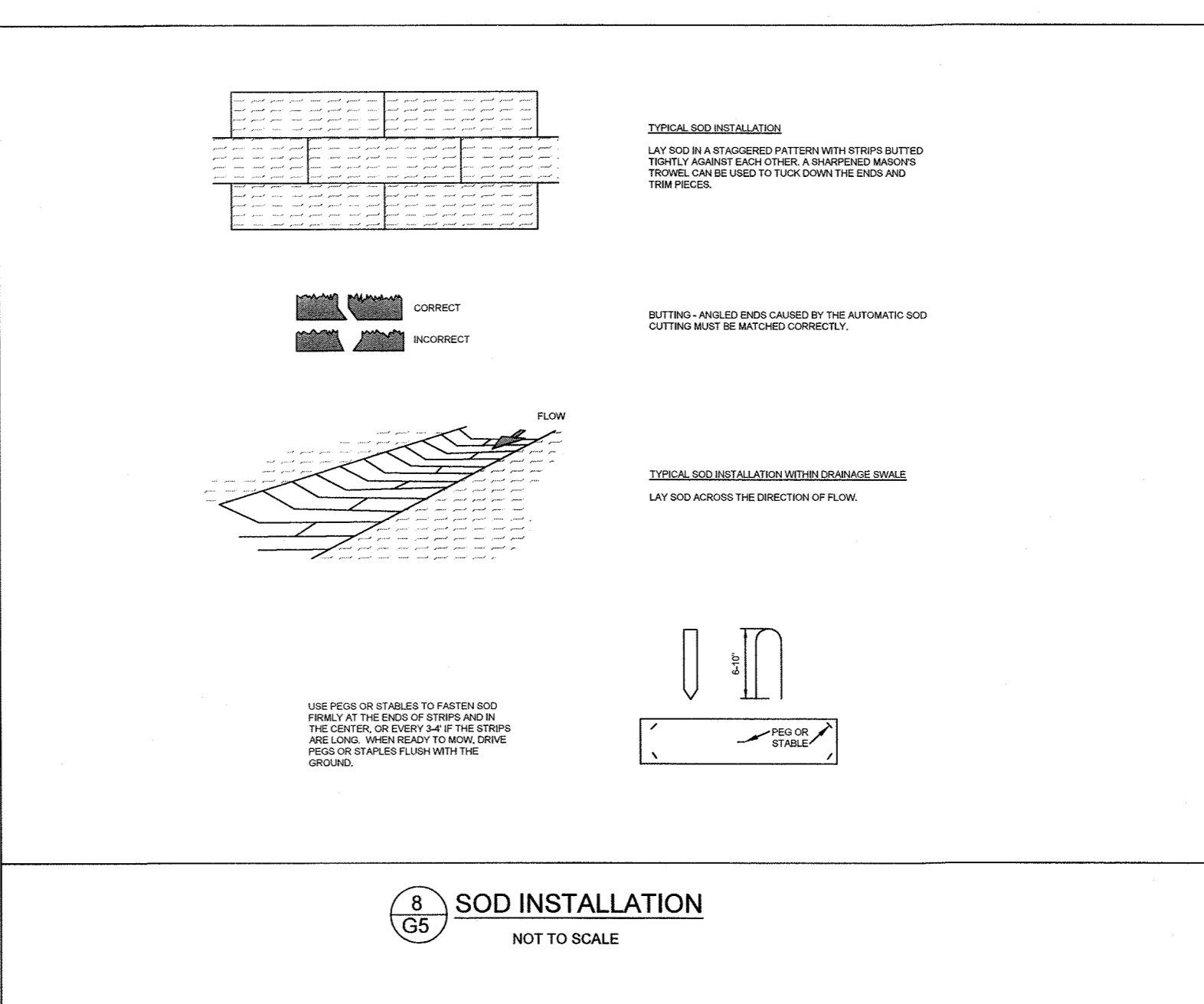
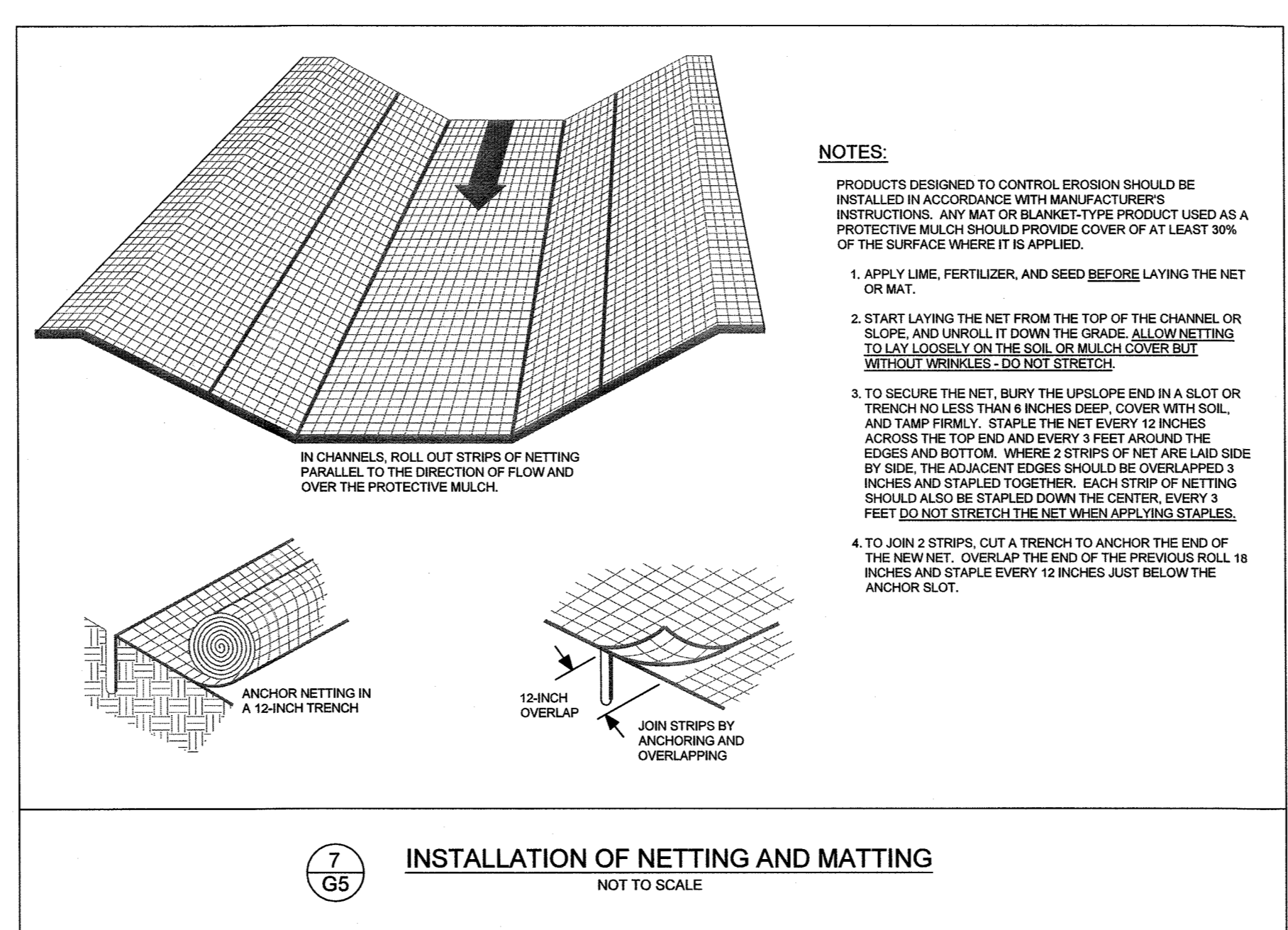
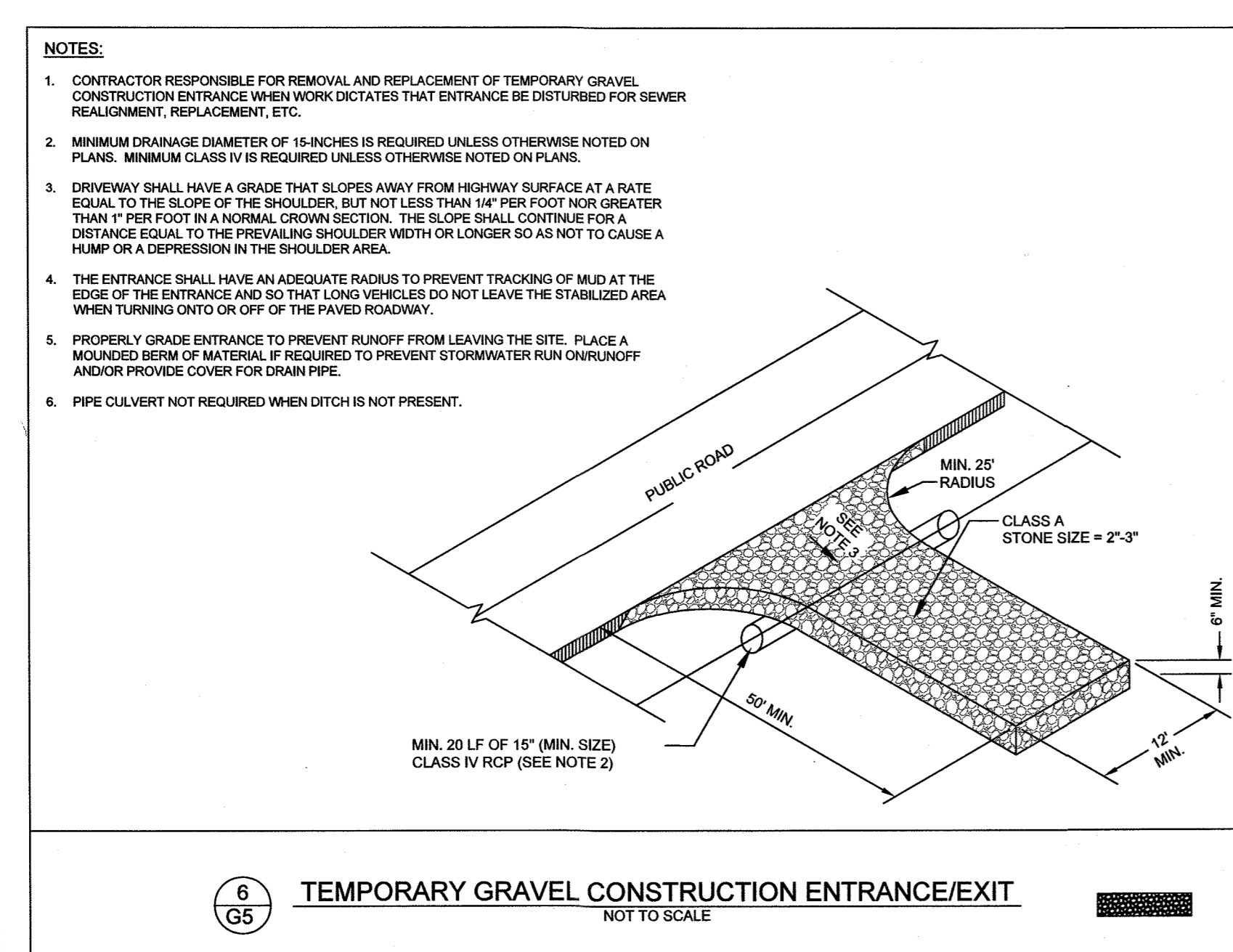
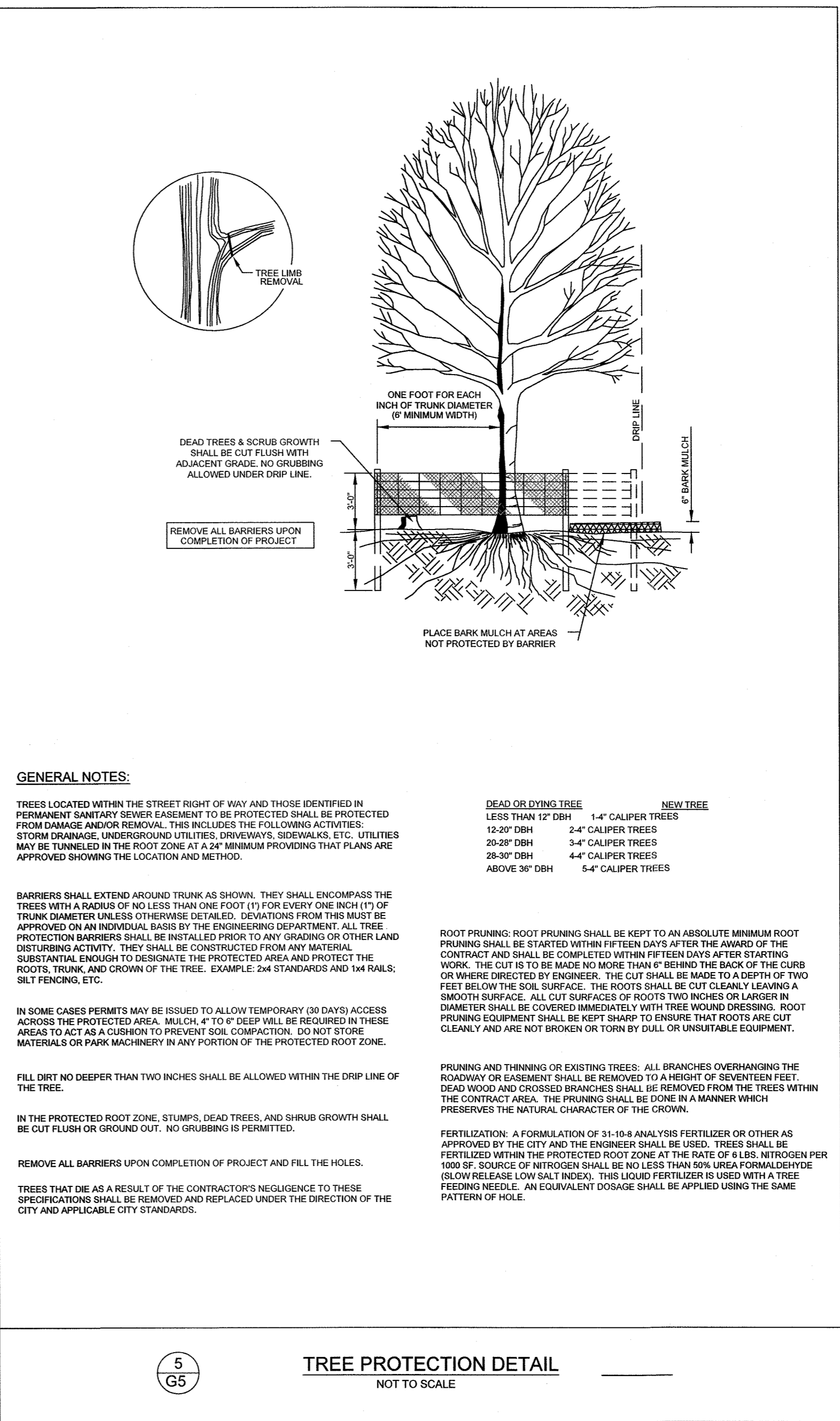
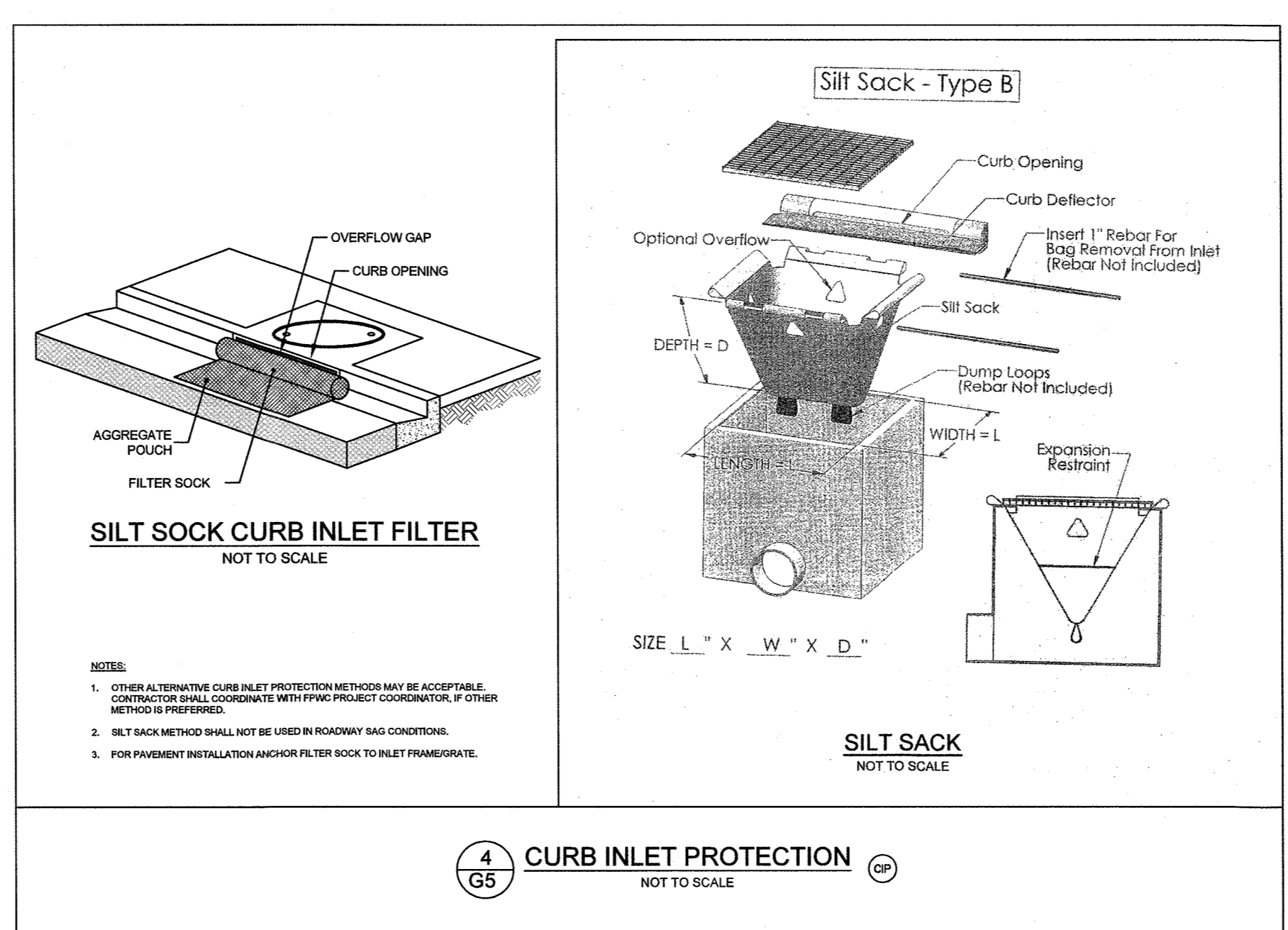
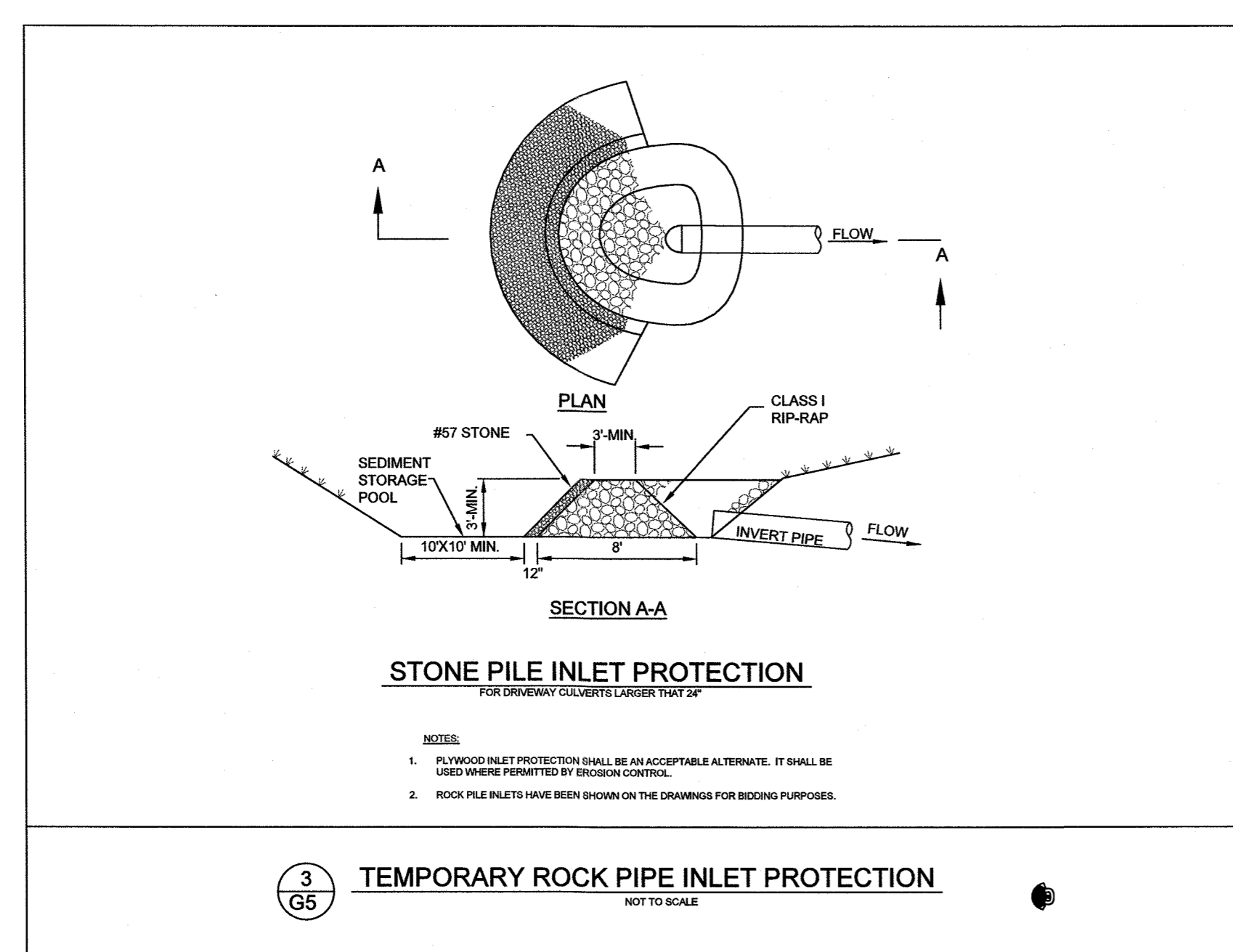
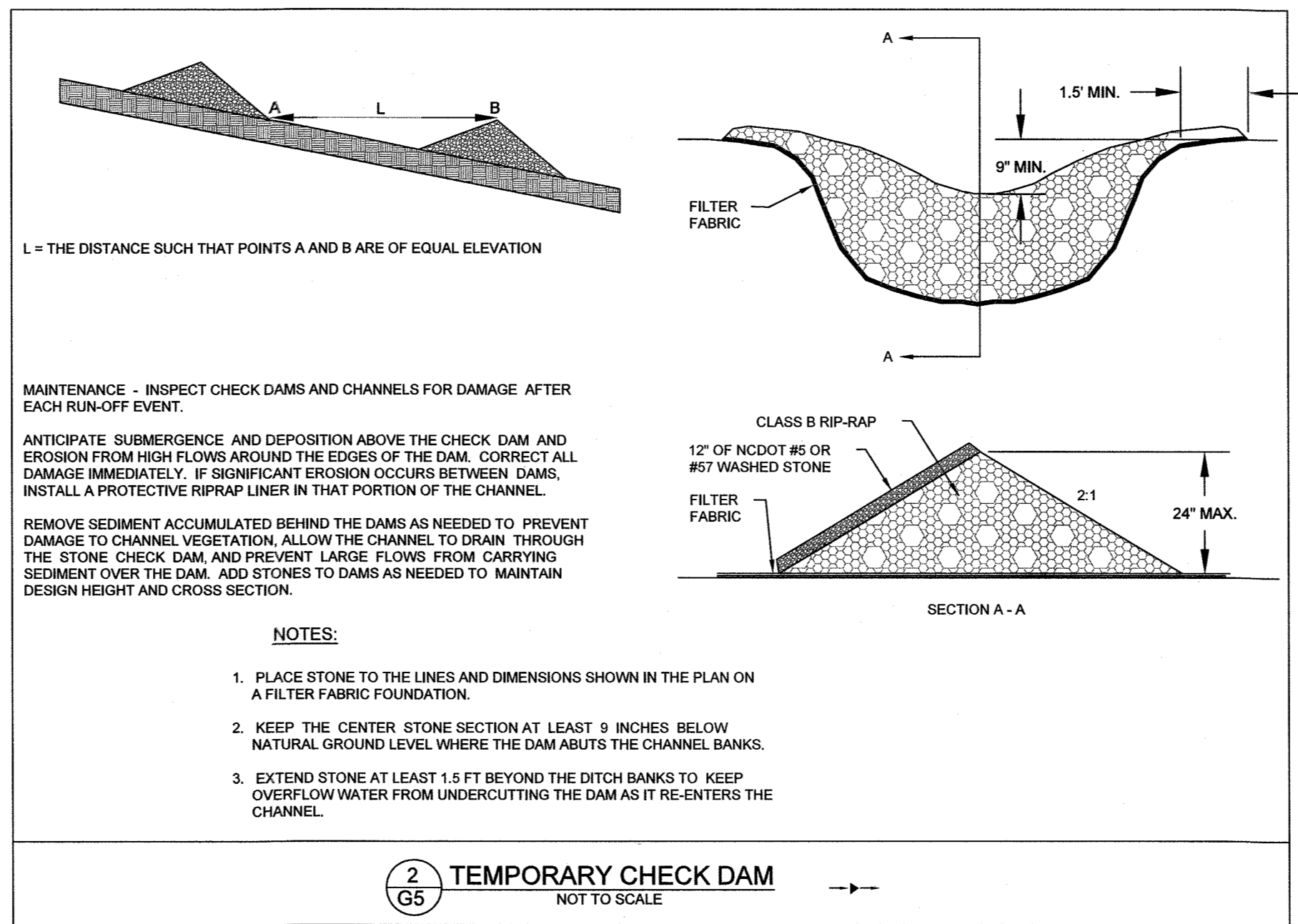
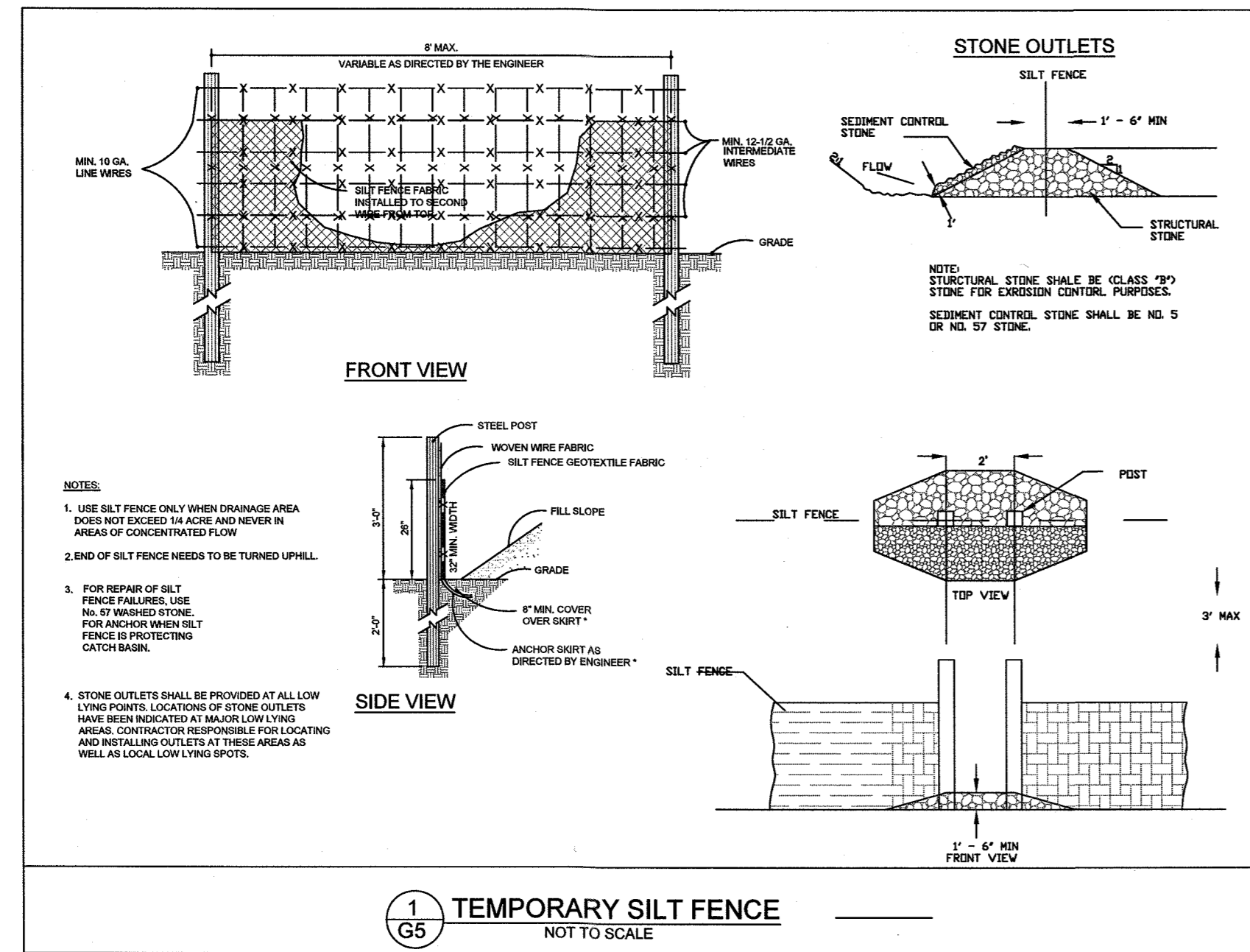
DATE: 2/5/2021
 SURVEYED BY: STEWART
 DRAWN BY: AMH/DK
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WICKSON
 COMMUNITY DEVELOPMENT CONSULTANTS
 TRANSPORTATION & WATER RESOURCES
 720 Corporate Center Drive
 Raleigh, North Carolina 27607
 (919) 782-8872
 www.wickson.com



MISCELLANEOUS DETAILS (2)
 ANNEXATION PHASE V, AREA 24, SECTIONS B & C
 FAYETTEVILLE, NORTH CAROLINA

FAYETTEVILLE
 PUBLIC WORKS COMMISSION
WATER RESOURCES ENGINEERING
 P.O. Box 1888 Fayetteville, NC 28302
 985 Old Wilmington Road, Fayetteville, NC 28301



DATE: 2/5/2021
 SURVEY/AS BY: STEWART
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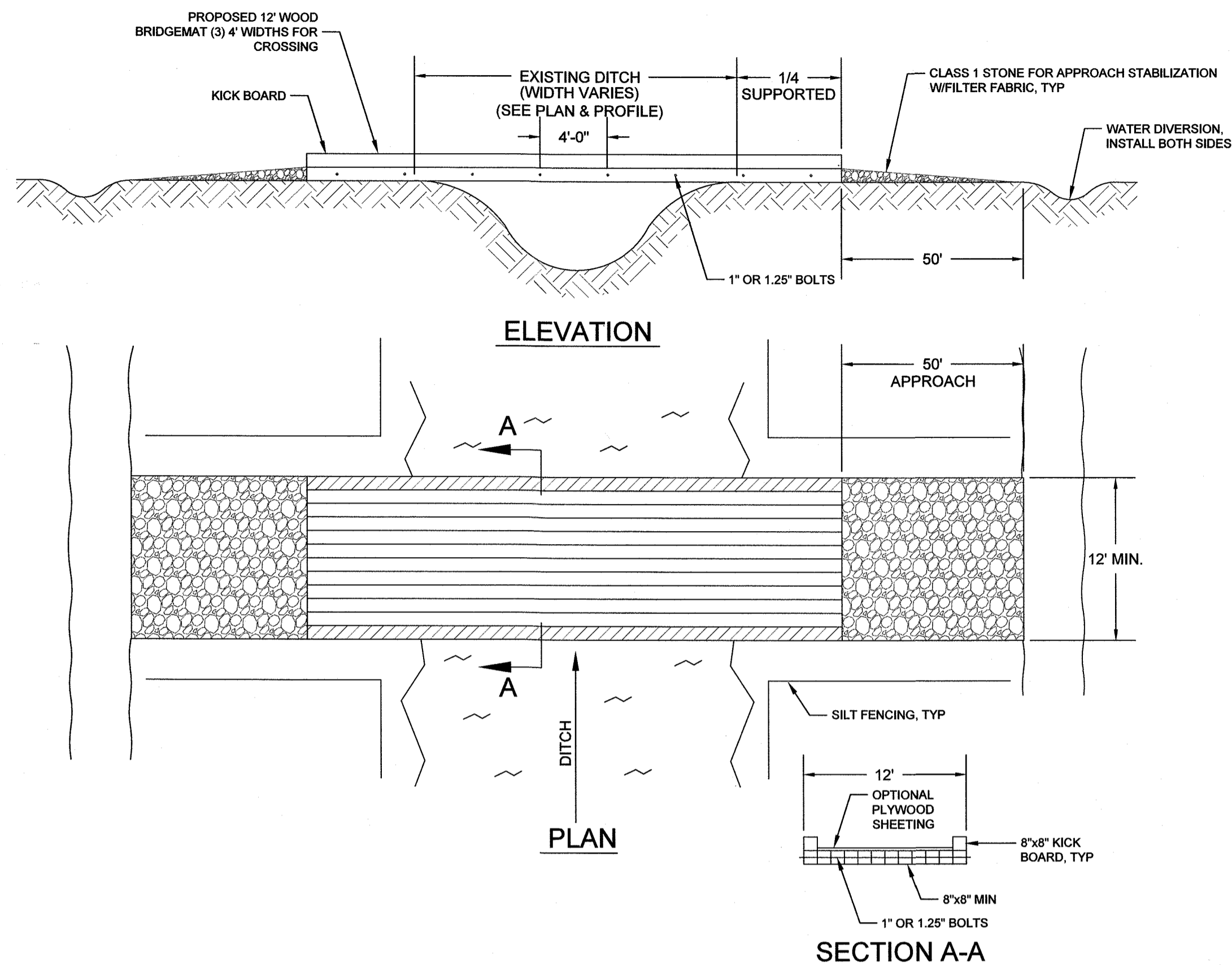
WICKSON
 COMMUNITY DEVELOPMENT CONSULTANTS
 720 Corporate Center Drive
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PROFESSIONAL SEAL
 024984
 T. STEWART
 CIVIL ENGINEER

EROSION CONTROL DETAILS
 ANNEXATION PHASE V, AREA 24, SECTIONS B & C
 FAYETTEVILLE, NORTH CAROLINA

PWC WATER RESOURCES ENGINEERING
 P.A. Box 1088 Fayetteville, NC 28302
 985 Old Wilmington Road, Fayetteville, NC 28301

SHEET # 65



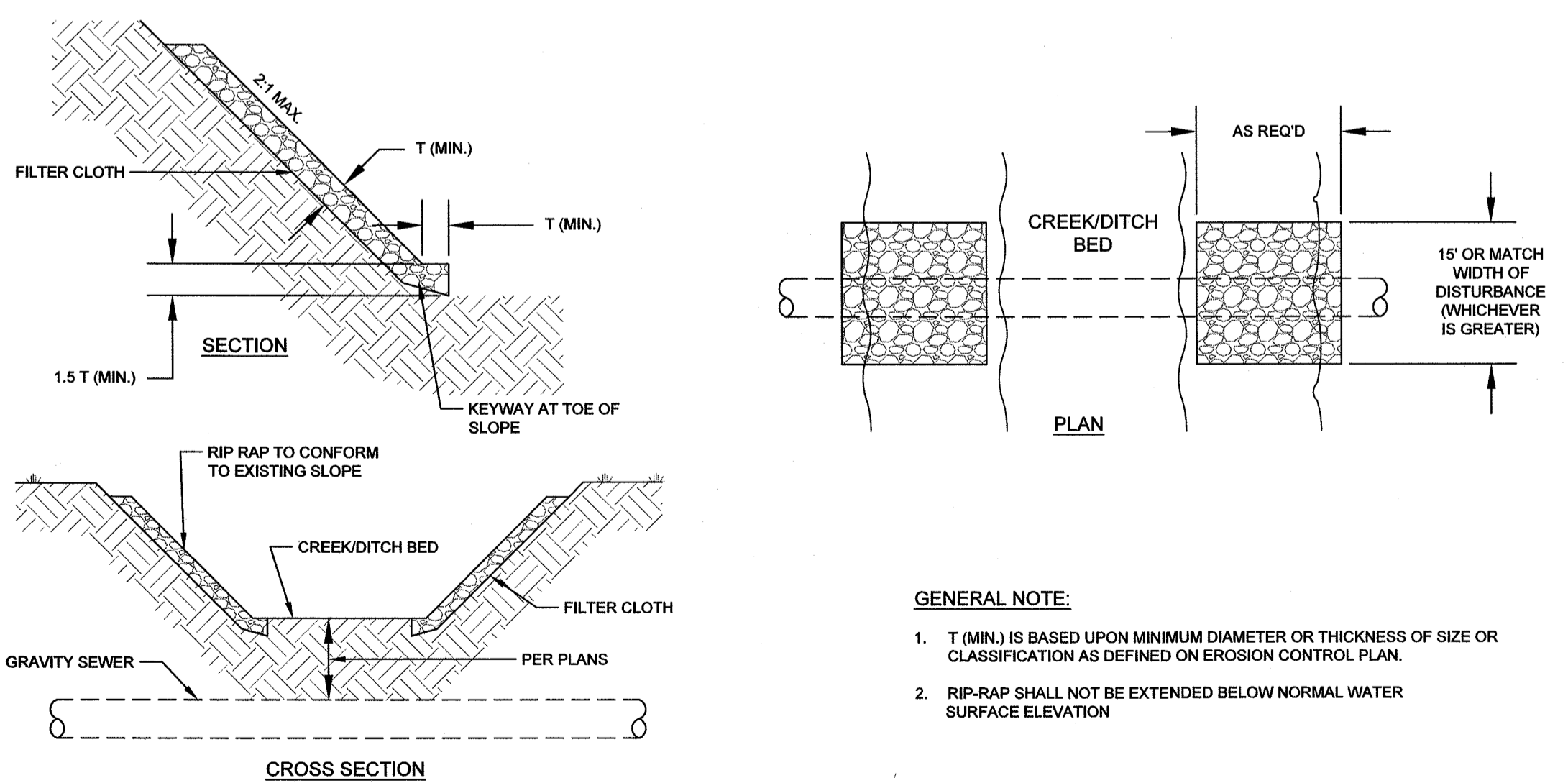
GENERAL NOTES:

- INSTALL TO CREATE A MINIMUM 12 FT CROSSING WIDTH OR LARGER WIDTH FOR CONSTRUCTION EQUIPMENT.
- PERIODICALLY CHECK MAT HARDWARE, RETIGHTEN AS REQUIRED TO MAINTAIN STRENGTH AND INTEGRITY.
- REMOVE ANY DEBRIS THAT ENTERS DRAINAGE WAY.
- CONTRACTOR RESPONSIBLE FOR SIZING STRUCTURAL COMPONENTS OF MAT TO CARRY ALL CONSTRUCTION LOADS INCLUDING EQUIPMENT AND MATERIAL.

SEQUENCE NOTES:

- MAT SHALL BE INSTALLED PRIOR TO CONSTRUCTION. LOCATION OF MAT AT EACH CROSSING SHALL BE COORDINATED BY CONTRACTOR SO IT DOES NOT CONFLICT WITH SEWER EXCAVATION AND IT RESIDES WITHIN LIMITS OF DISTURBANCE (LOD).
- MAT SHALL REMAIN IN PLACE UNTIL ALL DOWNSTREAM (IN TERMS OF SEWER FLOW) WORK HAS BEEN COMPLETED, RESTORED AND DEEMED ACCEPTABLE AND CONTRACTOR NO LONGER NEEDS ACCESS OVER DITCH.

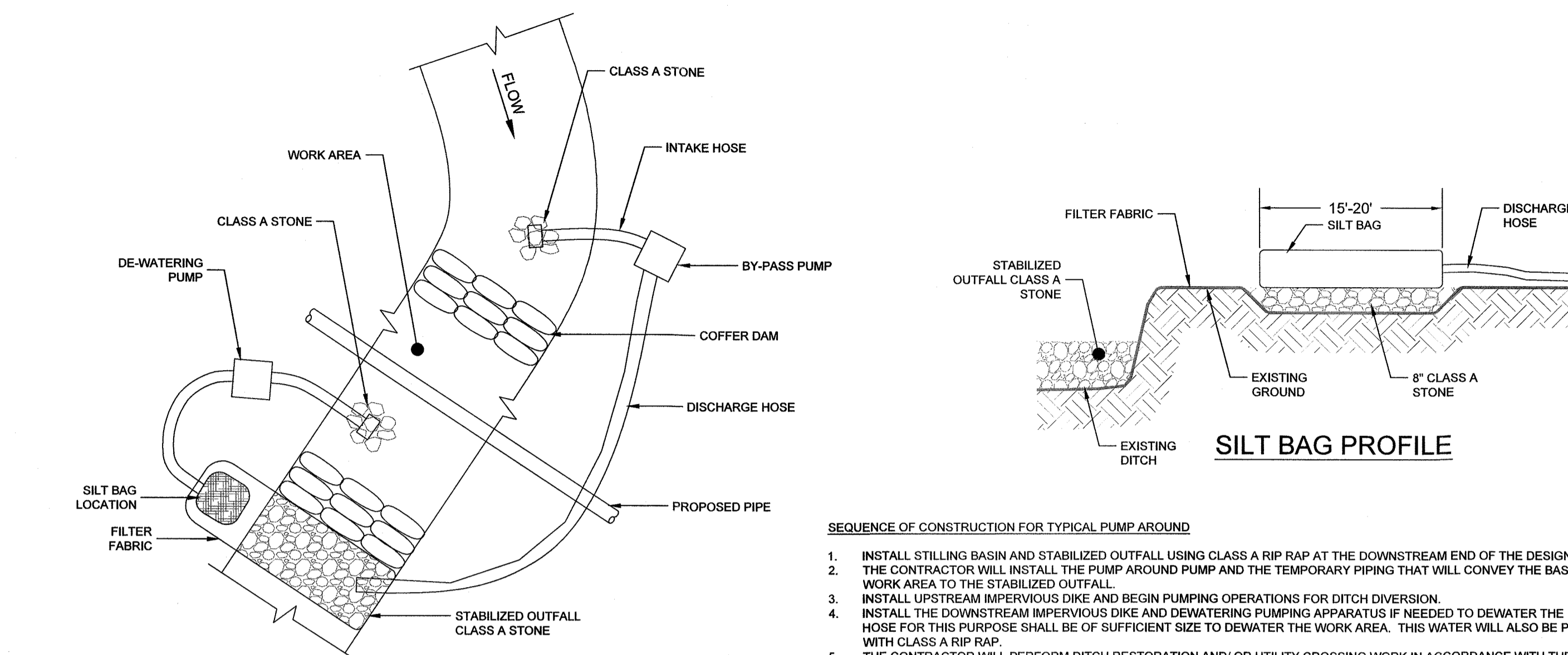
1 G6 TEMPORARY DITCH CROSSING (BRIDGE MAT)
NOT TO SCALE



GENERAL NOTE:

- T (MIN) IS BASED UPON MINIMUM DIAMETER OR THICKNESS OF SIZE OR CLASSIFICATION AS DEFINED ON EROSION CONTROL PLAN.
- RIP-RAP SHALL NOT BE EXTENDED BELOW NORMAL WATER SURFACE ELEVATION

5 G6 STREAM BANK STABILIZATION
NOT TO SCALE



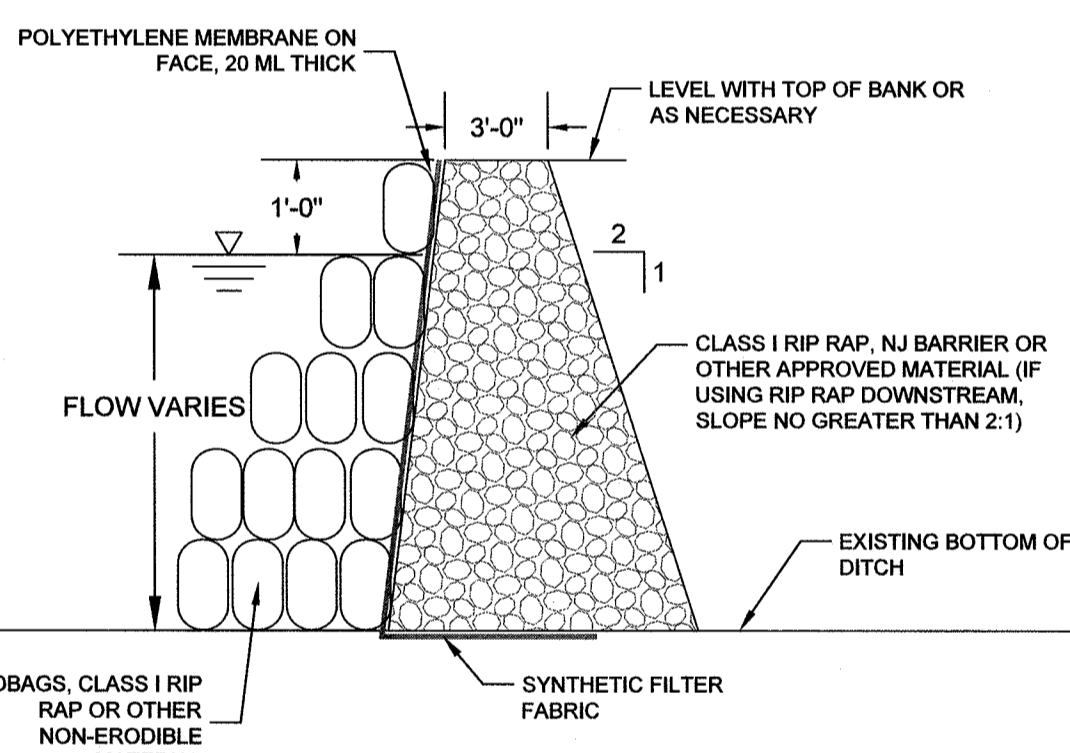
SEQUENCE OF CONSTRUCTION FOR TYPICAL PUMP AROUND

- INSTALL STILLING BASIN AND STABILIZED OUTFALL USING CLASS A RIP RAP AT THE DOWNSTREAM END OF THE DESIGNATED PROJECT WORKING AREA.
- THE CONTRACTOR WILL INSTALL THE PUMP AROUND PUMP AND THE TEMPORARY PIPING THAT WILL CONVEY THE BASE FLOW FROM UPSTREAM OF THE WORK AREA TO THE STABILIZED OUTFALL.
- INSTALL UPSTREAM IMPERVIOUS DIKE AND BEGIN PUMPING OPERATIONS FOR DITCH DIVERSION.
- INSTALL THE DOWNSTREAM IMPERVIOUS DIKE AND DEWATERING PUMPING APPARATUS IF NEEDED TO DEWATER THE ENTRAPPED AREA. THE PUMP AND HOSE FOR THIS PURPOSE SHALL BE OF SUFFICIENT SIZE TO DEWATER THE WORK AREA. THIS WATER WILL ALSO BE PUMPED TO AN OUTFALL STABILIZED WITH CLASS A RIP RAP.
- THE CONTRACTOR WILL PERFORM DITCH RESTORATION AND/ OR UTILITY CROSSING WORK IN ACCORDANCE WITH THE PLAN AND FOLLOWING THE GENERAL CONSTRUCTION SEQUENCE.
- THE CONTRACTOR WILL EXCAVATE ANY ACCUMULATED SILT AND DEWATER BEFORE REMOVAL OF THE IMPERVIOUS DIKE. WHEN DEWATERING AREA ALL DIRTY WATER MUST BE PUMPED THROUGH A SILT BAG, REMOVE IMPERVIOUS DIKES, PUMPS, AND TEMPORARY FLEXIBLE HOSE/PIPING STARTING WITH THE DOWNSTREAM DIKE FIRST.
- ONCE THE WORKING AREA IS COMPLETED, REMOVE ALL RIP RAP AND IMPERVIOUS DIKES AND STABILIZE DISTURBED AREAS IN ACCORDANCE WITH DITCH STABILIZATION REQUIREMENTS AS INDICATED ON EROSION/ SEDIMENTATION PLANS.
- ALL WORK IN DITCH MUST BE COMPLETED BEFORE REMOVING IMPERVIOUS DIKE.

NOTES:

- EXCAVATION SHALL BE PERFORMED ONLY IN DRY AND/OR ISOLATED SECTIONS OF CHANNEL.
- IMPERVIOUS DIKES SHOULD BE USED TO ISOLATE WORK AREAS FROM DITCH FLOW.
- THE CONTRACTOR SHALL NOT DISTURB MORE AREA THAN CAN BE STABILIZED IN ONE WORKING DAY. A MAXIMUM OF 1000 FEET MAY BE DISTURBED AT ANY ONE TIME.
- THE BY-PASS PUMP SHOULD ADEQUATELY CONVEY MINIMUM 450 GALLONS / MINUTE UNLESS OTHERWISE SPECIFIED.
- DIKE MUST BE CONSTRUCTED OF NON-ERODIBLE MATERIALS SUCH AS SANDBAGS, SEE COFFER DAM DETAIL.

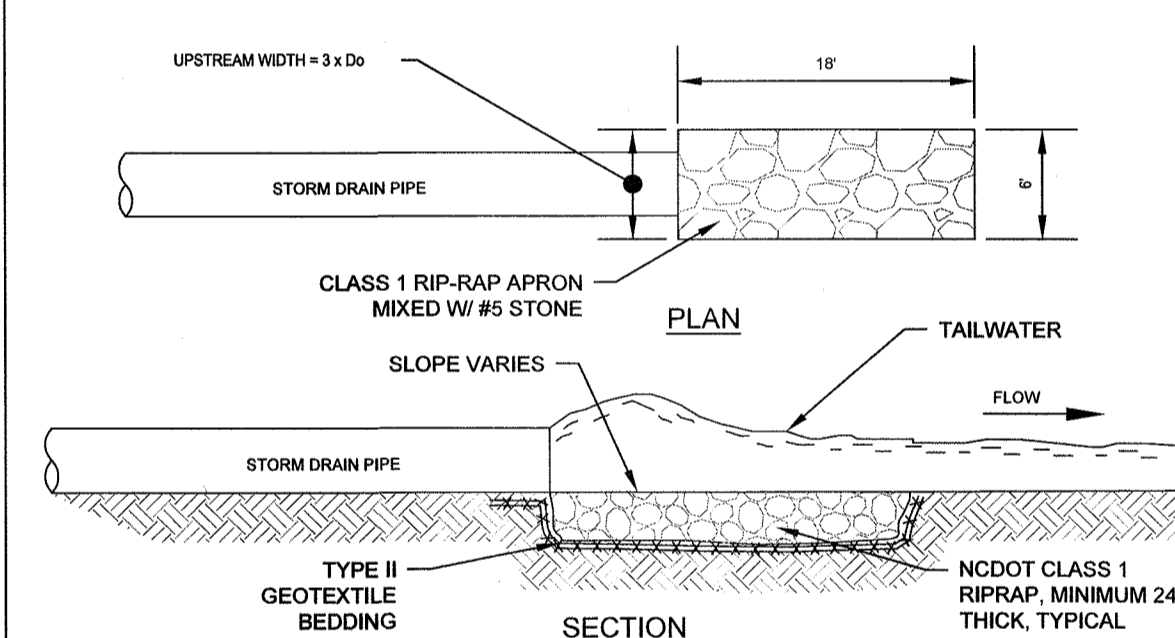
2 G6 DITCH PUMP AROUND
NOT TO SCALE



NOTES:

- CONTRACTOR SHALL INSTALL COFFER DAM WITH BYPASS ARRANGEMENTS ALONG DITCH PRIOR TO SEWER INSTALLATION TO ENSURE DRY CONDITIONS. SEE DITCH PUMP AROUND DETAIL.
- CONTRACTOR SHALL FOLLOW CONSTRUCTION SEQUENCE AS NOTED ON CONTRACT DRAWINGS.

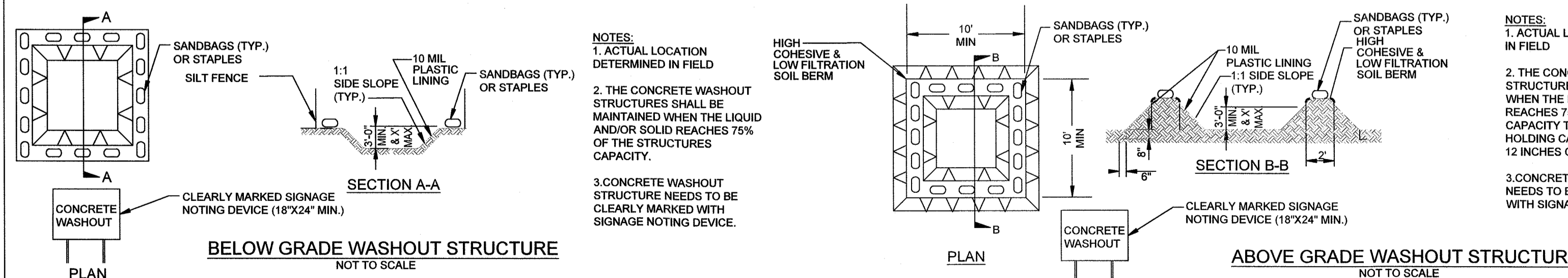
3 G6 COFFER DAM
NOT TO SCALE



NOTES:

- ENSURE THAT THE SUBGRADE FOR THE FILTER AND RIPRAP FOLLOWS THE REQUIRED LINES AND GRADES SHOWN IN THE PLAN. COMPACT ANY FILL REQUIRED IN THE SUBGRADE TO THE DENSITY OF THE SURROUNDING UNDISTURBED MATERIAL. LOW AREAS IN THE SUBGRADE ON UNDISTURBED SOIL MAY ALSO BE FILLED BY INCREASING THE RIPRAP THICKNESS.
- THE RIPRAP AND GRAVEL FILTER MUST CONFORM TO THE SPECIFIED GRADING LIMITS SHOWN ON THE PLANS. RIPRAP INSTALLED ON SLOPES SHALL BE EXTENDED TO THE TOE OF SLOPE.
- GEOTEXTILE BEDDINGS MUST MEET NCDOT SPECIFICATIONS AND BE PROPERLY PROTECTED FROM PUNCHING OR TEARING DURING INSTALLATION. REPAIR ANY DAMAGE BY REMOVING THE RIPRAP AND PLACING ANOTHER PIECE OF FILTER CLOTH OVER THE DAMAGED AREA. ALL CONNECTING JOINTS SHOULD OVERLAP A MINIMUM OF 1 FT. IF THE DAMAGE IS EXTENSIVE, REPLACE THE ENTIRE FILTER CLOTH.
- THE MINIMUM THICKNESS OF THE RIPRAP SHOULD BE 1.5 TIMES THE MAXIMUM STONE DIAMETER. RIPRAP MAY BE FIELD STONE OR ROUGH QUARRY STONE. IT SHOULD BE HARD, ANGULAR, HIGHLY WEATHER-RESISTANT AND WELL GRADED.
- CONSTRUCT THE APRON GRADE AS SHOWN ON PLAN WITH NO OVER FALL AT THE END. MAKE THE TOP OF THE RIPRAP AT THE DOWNSTREAM END LEVEL WITH THE RECEIVING AREA OR SLIGHTLY BELOW IT.
- ENSURE THAT THE APRON IS PROPERLY ALIGNED WITH THE RECEIVING STREAM AND PREFERABLY STRAIGHT THROUGHOUT ITS LENGTH.
- IMMEDIATELY AFTER CONSTRUCTION, STABILIZE ALL DISTURBED AREAS WITH VEGETATION.

4 G6 RIP-RAP OUTLET PROTECTION DETAIL
NOT TO SCALE



NOTES:

- ACTUAL LOCATION DETERMINED IN FIELD
- THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY.
- CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARLY MARKED WITH SIGNAGE NOTING DEVICE.

NOTES:

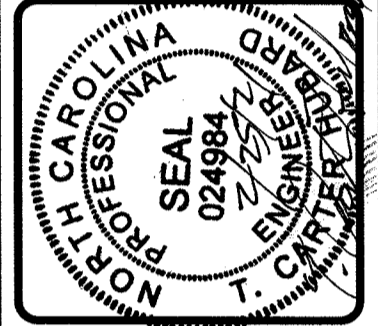
- ACTUAL LOCATION DETERMINED IN FIELD
- THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM 12 INCHES OF FREEBOARD.
- CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARLY MARKED WITH SIGNAGE NOTING DEVICE.

6 G6 ONSITE CONCRETE WASHOUT STRUCTURE WITH LINER
NOT TO SCALE

BY	REVISION
DATE	

DATE: 2/15/2021
 SURVEYED BY: STEWART
 DRAWN BY: AMU/DK
 CHECKED BY: TCH
 SCALE: HOR: 1"=10'
 VERT: 1"=10'

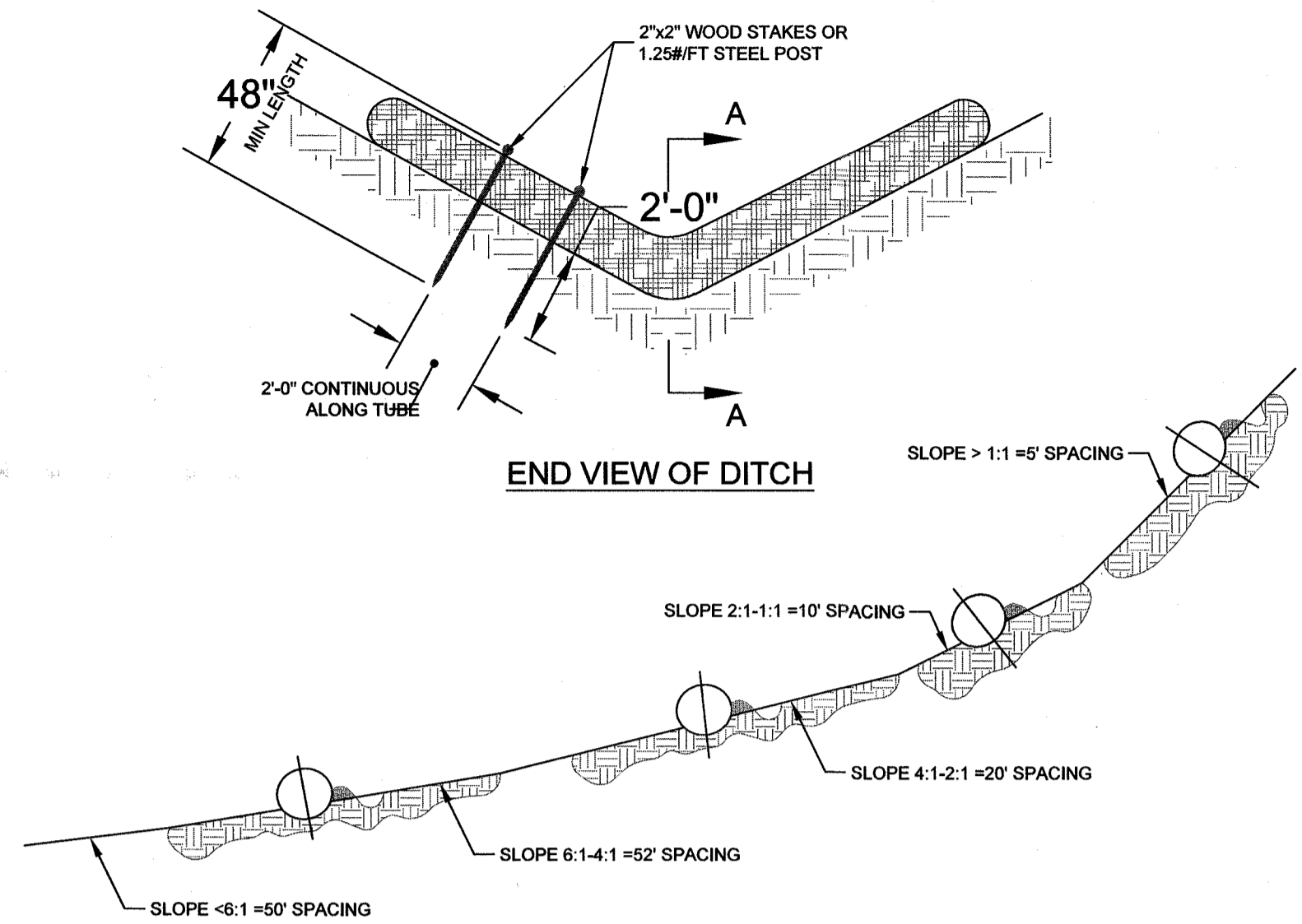
WPC CON
 WPC CONSTRUCTION CONSULTANTS
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 Raleigh, North Carolina 27607
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EROSION CONTROL DETAILS (2)
 ANNEXATION PHASE V, AREA 24, SECTIONS B & C
 FAYETTEVILLE, NORTH CAROLINA

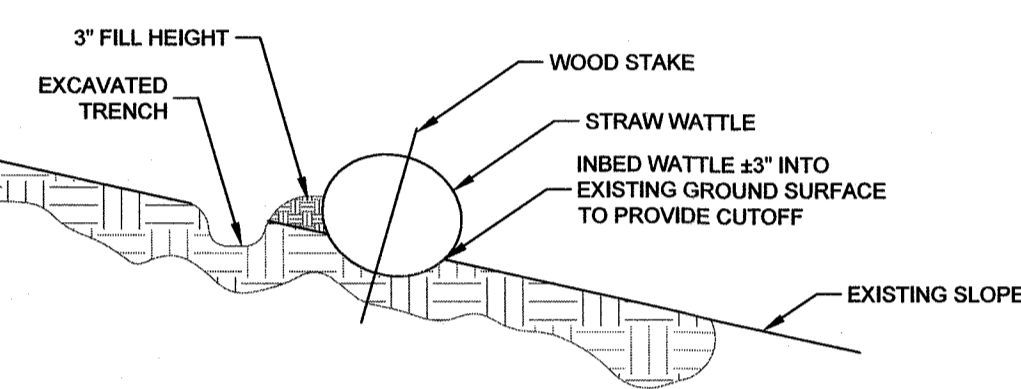
FAYETTEVILLE PUBLIC WORKS COMMISSION
WATER RESOURCES ENGINEERING
 855 Old Wilmington Road, Fayetteville, NC 28302

WATER RESOURCES ENGINEERING
 20190126.00.RA



END VIEW OF DITCH

TYPICAL WATTLE SPACING BASED ON SLOPE GRADIENT



SECTION A-A

STRAW WATTLE
NOT TO SCALE

WATTLE DESCRIPTION
WATTLES ARE ELONGATED TUBES OF COMPACTED GEOTEXTILES, CURLED EXCELSIOR WOOD, NATURAL COCONUT FIBER OR HARDWOOD MULCH, STRAW, PINE NEEDLE AND LEAF MULCH-FILLED SEDIMENT TUBES ARE NOT PERMITTED UNDER THIS SPECIFICATION.
WHEN AND WHERE TO USE IT:
INSTALL SEDIMENT TUBES ALONG CONTOURS, IN DRAINAGE CONVEYANCE SWALES, AND AROUND INLETS TO HELP REDUCE THE EFFECTS OF SOIL EROSION BY ENERGY DISSIPATION AND RETAIN SEDIMENT.

MATERIALS
WATTLES FOR DITCH CHECKS AND TYPE A INLET STRUCTURE FILTERS EXHIBIT THE FOLLOWING PROPERTIES:
PRODUCED BY A MANUFACTURER EXPERIENCED IN WATTLE MANUFACTURING, COMPOSED OF COMPACTED GEOTEXTILES, CURLED EXCELSIOR WOOD, NATURAL COCONUT FIBERS, HARDWOOD MULCH OR A MIX OF THESE MATERIALS ENCLOSED BY A FLEXIBLE NETTING MATERIAL. STRAW, STRAW FIBER, STRAW BALES, PINE NEEDLES AND LEAF MULCH ARE NOT ALLOWED UNDER THIS SPECIFICATION. UTILIZES OUTER NETTING THAT CONSISTS OF SEAMLESS, HIGH-DENSITY POLYETHYLENE PHOTODEGRADABLE MATERIALS TREATED WITH ULTRAVIOLET STABILIZERS OR A SEAMLESS, HIGH-DENSITY POLYETHYLENE NON-DEGRADABLE MATERIALS. DIAMETER RANGING FROM 18-INCHES TO 24-INCHES. CURLED EXCELSIOR WOOD, OR NATURAL COCONUT ROLLED EROSION CONTROL PRODUCTS (RECPs) THAT ARE ROLLED UP TO CREATE A SEDIMENT TUBE ARE NOT ALLOWED UNDER THIS SPECIFICATION.

INSTALLATION:

- INSTALL OVER BARE SOIL, MULCHED AREAS OR EROSION CONTROL BLANKETS. THE MINIMUM DIAMETER SHOULD BE 18 INCHES.
- BEGIN AT THE LOCATION WHERE THE WATTLE IS TO BE INSTALLED BY EXCAVATING A TRENCH 20% OF TUBE DIAMETER X 6" WIDE TRENCH ALONG THE DOWNSTREAM SIDE AND EXCAVATED SOIL SHOULD BE PLACED UP-SLOPE FROM THE ANCHOR TRENCH. AVOID DAMAGE TO SEDIMENT TUBES WHILE INSTALLING THEM. IF THE SEDIMENT TUBE BECOMES DAMAGED DURING INSTALLATION, A STAKE SHOULD BE PLACED ON BOTH SIDES OF THE DAMAGED AREA TERMINATING THE TUBE SEGMENT AND A NEW TUBE SEGMENT SHOULD BE INSTALLED.
- PLACE THE WATTLE IN THE TRENCH SO THAT IT CONTOURS TO THE SOIL SURFACE. COMPACT THE SOIL FROM THE EXCAVATION TRENCH AGAINST THE WATTLE ON THE UPHILL SIDE. ADJACENT WATTLES SHOULD TIGHTLY ABUT.
- SECURE THE WATTLE WITH 48" STAKES EVERY 2'-0" WITH A STAKE ON EACH END. STAKES SHOULD BE INTERLAPPED WITH THE CUTTER MESH ON THE DOWNSTREAM SIDE AND DRIVEN IN THE GROUND TO A MINIMUM DEPTH OF 1.5 FEET LEAVING AT LEAST 3" OF STAKE EXTENDING ABOVE. THE WATTLE STAKES SHOULD BE DRIVEN PERPENDICULAR TO THE SLOPE FACE. STAKES SHOULD BE 2x2" WOODEN STAKES OR STEEL POSTS (STANDARD 1" OR 1.25" MINIMUM WEIGHT OF 25 POUNDS PER FOOT). ALWAYS REFER TO THE MANUFACTURER'S RECOMMENDATIONS FOR THE STAKING DETAIL.
- INSTALL ALL TUBES INSURING THAT NO GAPS EXIST BETWEEN THE SOIL AND THE BOTTOM OF THE TUBE. THE ENDS OF ADJACENT WATTLES SHOULD BE LAPPED 6-INCH TO PREVENT FLOW AND SEDIMENT FROM PASSING THROUGH THE FIELD JOINT. IN NO SITUATIONS SHOULD SEDIMENT TUBES BE STACKED ON TOP OF ONE ANOTHER. IN SWALES OR DRAINAGE DITCHES PERPENDICULAR TO THE FLOW OF WATER, SEDIMENT TUBES SHOULD CONTINUE UP THE SIDE SLOPES A MINIMUM OF 1 FOOT ABOVE THE DESIGN FLOW DEPTH.

- SEDIMENT TUBE LENGTH SELECTED SHOULD MINIMIZE THE NUMBER OF SEDIMENT TUBES NEEDED TO SPAN THE WIDTH OF THE DRAINAGE CONVEYANCE. IF THE DITCH CHECK LENGTH (PERPENDICULAR TO THE WATER FLOW) IS 15 FEET, THEN ONE 15 FOOT SEDIMENT TUBE IS PREFERRED COMPARED TO TWO OVERLAPPING 10 FOOT SEDIMENT TUBES.
- WATTLES FOR DITCH CHECKS SHOULD REMAIN IN PLACE UNTIL FULLY ESTABLISHED VEGETATION AND ROOT SYSTEMS HAVE COMPLETELY DEVELOPED AND CAN SURVIVE ON THEIR OWN.

INSPECTION AND MAINTENANCE:

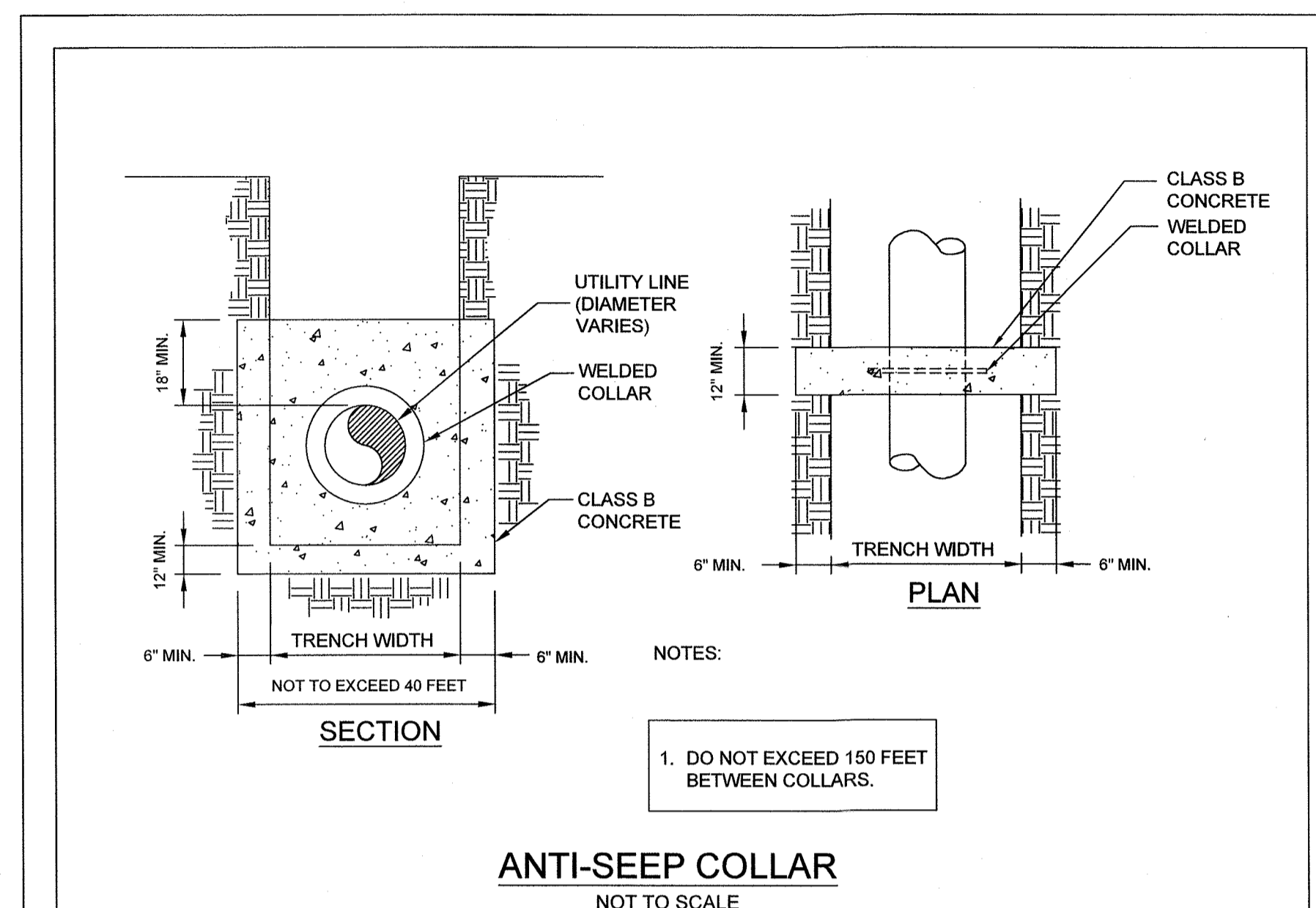
CHECK DAMS SHOULD BE INSPECTED EVERY 7 CALENDAR DAYS AND WITHIN 24-HOURS AFTER EACH STORM THAT PRODUCES 1/4-INCHES OR MORE OF RAIN TO ENSURE CONTINUED EFFECTIVENESS.

LARGE DEBRIS, TRASH, AND LEAVES SHOULD BE REMOVED.

IF EROSION CAUSES THE EDGES TO FALL TO A HEIGHT EQUAL TO OR BELOW THE HEIGHT OF THE CENTER, REPAIRS SHOULD BE MADE IMMEDIATELY.

REMOVE ACCUMULATED SEDIMENT FROM THE UPSTREAM SIDE OF THE SEDIMENT TUBE WHEN THE SEDIMENT HAS REACHED A HEIGHT OF APPROXIMATELY ONE-THIRD OF THE EXPOSED HEIGHT OF THE TUBE (MEASURED AT THE CENTER).
ACCUMULATED SEDIMENT SHOULD BE REMOVED PRIOR TO REMOVING SEDIMENT TUBES.

WATTLE REMOVAL SHOULD BE COMPLETED ONLY AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN COMPLETELY STABILIZED. PERMANENT VEGETATION SHOULD REPLACE AREAS FROM WHICH GRAVEL, STONE, SEDIMENT TUBES, OR OTHER MATERIALS HAVE BEEN REMOVED.



SECTION

PLAN

ANTI-SEEP COLLAR
NOT TO SCALE

NOTES:
1. DO NOT EXCEED 150 FEET BETWEEN COLLARS.

GROUND STABILIZATION AND MATERIALS HANDLING PRACTICES FOR COMPLIANCE WITH THE NCG01 CONSTRUCTION GENERAL PERMIT
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

Site 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 -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
(d) Slopes 3:1 to 4:1	14	-10 days for Falls Lake Watershed
(e) Areas with slopes flatter than 4:1	14	-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	Permanent Stabilization
<ul style="list-style-type: none"> Temporary grass seed covered with straw or other mulches and fabrics Hydroseeding Rollled erosion control products with or without temporary grass seed Appropriately applied straw or other mulch Plastic sheeting 	<ul style="list-style-type: none"> Permanent grass seed covered with straw or other mulches and fabrics 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 Rollled 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.
- Apply flocculants at or before the inlets to Erosion and Sediment Control Measures.
- Apply flocculants at the concentrations specified in the NC DWR List of Approved PAMS/Flocculants and in accordance with the manufacturer's instructions.
- Provide ponding area for containment of treated stormwater before discharging offsite.
- Store flocculants in leak-proof containers that are kept under storm-resistant cover or surrounded by secondary containment structures.

EQUIPMENT AND VEHICLE MAINTENANCE

- Maintain vehicles and equipment to prevent discharge of fluids.
- Provide drip pans under any stored equipment.
- Identify leaks and repair as soon as feasible, or remove leaking equipment from the project.
- 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.
- 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

- 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.
- Locate waste containers at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
- 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.
- Cover waste containers at the end of each workday and before storm events or provide secondary containment. Repair or replace damaged waste containers.
- Anchor all lightweight items in waste containers during times of high winds.
- Empty waste containers as needed to prevent overflow. Clean up immediately if containers overflow.
- 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

- Do not dump paint and other liquid waste into storm drains, streams or wetlands.
- Locate paint washouts at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
- Contain liquid wastes in a controlled area.
- Containment must be labeled, sized and placed appropriately for the needs of site.
- 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.
- Provide staining or anchoring of portable toilets during periods of high winds or in high foot traffic areas.
- 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

- 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.
- Provide stable stone access point when feasible.
- 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.

PART III SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION A: SELF-INSPECTION
Self-inspections are required during normal business hours in accordance with the table below. When adverse weather or site conditions would cause the safety of the inspection personnel to be in jeopardy, the inspection may be delayed until the next business day on which it is safe to perform the inspection. In addition, when a storm event of equal to or greater than 1.0 inch occurs outside of normal business hours, the self-inspection shall be performed upon the commencement of the next business day. Any time when inspections were delayed shall be noted in the inspection Record.

Inspect	Frequency (during normal business hours)	Inspection records must include:
(1) Rain gauge maintained in good working order	Daily	Daily rainfall amounts. If no daily rain gauge observations are made during weekend or holiday periods, and no individual-day rainfall information is available, record the cumulative rain measurement for those unattended 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-measuring device approved by the Division.
(2) E&S Measures	At least once per 7 calendar days and within 24 hours of a rain event > 1.0 inch in 24 hours	1. Identification of the measures inspected, 2. Date and time of the inspection, 3. Name of the person performing the inspection, 4. Indication of whether the measures were operating properly, 5. Description of maintenance needs for the measure, 6. Description, evidence, and date of corrective actions taken.
(3) Stormwater discharge (SDCs)	At least once per 7 calendar days and within 24 hours of a rain event > 1.0 inch in 24 hours	1. Identification of the discharge outfalls inspected, 2. Date and time of the inspection, 3. Name of the person performing the inspection, 4. Evidence of indicators of stormwater pollution such as oil sheen, floating or suspended solids or discoloration, 5. Indication of visible sediment leaving the site, 6. Description, evidence, and date of corrective actions taken.
(4) Perimeter of site	At least once per 7 calendar days and within 24 hours of a rain event > 1.0 inch in 24 hours	1. Actions taken to clean up or stabilize the sediment that has left the site limits, 2. Description, evidence, and date of corrective actions taken, and 3. An explanation as to the actions taken to control future releases.
(5) Streams or wetlands onsite or offsite	At least once per 7 calendar days and within 24 hours of a rain event > 1.0 inch in 24 hours	1. Records of the required reports to the appropriate Division Regional Office per Part III, Section C, Item (2)(a) of this permit of this permit.
(6) Ground stabilization measures	After each phase of grading	1. The phase of grading (installation of perimeter E&S Measures, clearing and grubbing, installation of storm drainage facilities, completion of all land-disturbing activity, construction or redevelopment, permanent ground cover), 2. Identification that the required ground stabilization measures have been installed, and 3. Documentation or an assurance that they will be provided as soon as possible.

NOTE: The rain inspection resets the required 7 calendar day inspection requirement.

PART III SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION B: RECORDKEEPING
1. E&S Plan Documentation
The approved E&S plan as well as any approved deviation shall be kept on the site. The approved E&S plan must be kept up-to-date throughout the coverage under this permit. The following items pertaining to the E&S plan shall be documented in the manner described:

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

2. Additional Documentation

- In addition to the E&S Plan documents above, the following items shall be kept on the site and available for agency 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:
- This general permit as well as the certificate of coverage, after it is received.
 - Records of inspections made during the previous 30 days. 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.
 - All data used to complete the Notice of Intent and older inspection records shall be maintained for a period of three years after project completion and made available upon request. [40 CFR 122.41]

PART III SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION C: REPORTING
1. Occurrences that must be reported
Permittees shall report the following occurrences:

- Visible sediment deposition in a stream or wetland.
 - 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).
- 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.
- Anticipated bypasses and unanticipated bypasses.
- 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 Division's Emergency Response personnel at (800) 662-7956, (800) 858-0368 or (919) 733-3300.

Occurrence	Reporting Timeframes (After Discovery) and Other Requirements
(a) Visible sediment deposition in a stream or wetland	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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. 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.
(c) Anticipated bypasses [40 CFR 122.41(m)(3)]	<ul style="list-style-type: none"> 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 recurrence 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.
(d) Unanticipated bypasses [40 CFR 122.41(m)(3)]	<ul style="list-style-type: none"> 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 recurrence 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.
(e) Noncompliance with the conditions of the permit that may endanger or harm the environment [40 CFR 122.41(i)(7)]	<ul style="list-style-type: none"> 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 recurrence 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.

CONCRETE WASHOUTS

- Do not discharge concrete or cement slurry from the site.
- Dispose of, or recycle settled, hardened concrete residue in accordance with local and state solid waste regulations and at an approved facility.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- At the completion of the concrete work, remove remaining leavings and dispose 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 live, stormwater drains, ground water or surface water. If a spill occurs, clean area immediately.
- Do not stockpile these materials onsite.

HAZARDOUS AND TOXIC WASTE

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

NCG01 SELF-INSPECTION, RECORDKEEPING AND REPORTING

EFFECTIVE: 04/01/19

PWC DWG # DS-15513

DATE: 2/5/2021
 SURVEYOR: BIL STEWART
 DRAWN BY: AMH/DK
 CHECKED BY: TCH
 SCALE: HORIZ: 1"=10'
 VERT: 1"=10'
 SHEET: SERIES-FINAL DESIGN - BID PLANS
 SHEET # 67
EROSION CONTROL DETAILS (3)
 ANNEXATION PHASE V, AREA 24, SECTIONS B & C
 FAYETTEVILLE, NORTH CAROLINA
TEMAC
 PUBLIC WORKS COMMISSION
 WATER RESOURCES ENGINEERING
 P.O. Box 1088 Fayetteville, NC 28402
 955 Old Wilmington Road, Fayetteville, NC 28401
 20190126.00.RA

NOTES:
 1. STONE BEDDING FOR PIPE IS REQUIRED UNLESS OTHERWISE APPROVED BY CITY ENGINEER OR THEIR DESIGNER.

Fayetteville
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TYPICAL STORM DRAIN COMPACTION
 DR-1
 Rev. Date: 16JAN18
 Not to Scale
 Review Date: 01JAN19

GENERAL NOTES:
 1. MORTAR JOINTS 1/2" ± 1/8" THICK.
 2. 3000 P.S.I. CONCRETE TO BE USED.
 3. USE FORMS FOR CONSTRUCTION OF THE BOTTOM SLAB.
 4. DEDUCT FOR PIPE(S) TOTAL CU. YDS. OF BRICK MASONRY.
 5. USE #4 BAR DOWELS AT 12" CENTERS FOR ALL PIPE SIZES.
 6. ALL CATCH BASINS OVER 3'-6" IN DEPTH SHALL BE PROVIDED WITH STEPS 12" ON CENTERS.
 7. USE TYPE "E", "F", & "G" GRATE UNLESS OTHERWISE INDICATED.
 8. JUMBO BRICK WILL BE PERMITTED. CONCRETE BRICK OR 4" SOLID CONCRETE BLOCKS MAY BE USED IN LIEU OF CLAY BRICKS.
 9. FOR 8'-0" IN HEIGHT OR LESS USE 8" WALL OVER 8'-0" IN HEIGHT USE 12" WALL TO 8'-0" FROM TOP OF WALL, 8" WALL FOR THE UPPER 6'-0".
 10. INVERTS SHALL BE SHAPED TO FORM A SMOOTH, REGULAR SURFACE, SLOPED TO PREVENT SEDIMENTATION.
 11. FOR VARIABLE DIMENSIONS, SEE STANDARD DETAIL DR-3.1.
 12. CONSTRUCT WITH PIPE CROWNS MATCHING.
 13. CHAMFER ALL EXPOSED CORNERS 1".

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STANDARD BRICK CATCH BASIN (15" THRU 54" PIPE)
 ADOPTED FROM NCDOT STANDARD NO. 840.01
 PAGE 1 OF 2
 Rev. Date: 08JUN20
 Not to Scale
 Review Date: 08JUN20

DR-3

DIMENSIONS OF BOX AND PIPE (LOCATION OF SOME VARIABLES SHOWN IN STANDARD DETAIL SD-3)										
PIPE SIZE	SPAN	WIDTH	MIN. HEIGHT	DEPTH	COVER DIMENSION	NO. REINFORCING BARS	NO. STEPS	NO. LENGTH	NO. WIDTH	NO. HEIGHT
12"	3'-0"	2'-0"	2'-0"	2'-0"	0.268	3	3	4'-11"	3	4'-11"
15"	3'-0"	2'-0"	2'-3"	2'-3"	0.268	3	3	4'-11"	3	4'-11"
18"	3'-0"	2'-0"	2'-6"	2'-6"	0.268	3	3	4'-11"	3	4'-11"
24"	3'-0"	2'-0"	3'-0"	3'-0"	0.268	3	3	4'-11"	3	4'-11"
30"	3'-0"	2'-0"	3'-6"	3'-6"	0.268	3	3	4'-11"	3	4'-11"
36"	3'-0"	2'-0"	4'-0"	4'-0"	0.268	3	3	4'-11"	3	4'-11"
42"	3'-0"	2'-0"	4'-6"	4'-6"	0.268	3	3	4'-11"	3	4'-11"
48"	3'-0"	2'-0"	5'-0"	5'-0"	0.268	3	3	4'-11"	3	4'-11"
54"	3'-0"	2'-0"	5'-6"	5'-6"	0.268	3	3	4'-11"	3	4'-11"

GENERAL NOTES:
 * CONCRETE TO BE PAID FOR AS BRICK MASONRY
 SEE GENERAL NOTES ON STANDARD DETAIL SD-3

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STANDARD BRICK CATCH BASIN (15" THRU 54" PIPE)
 ADOPTED FROM NCDOT STANDARD NO. 840.01
 PAGE 2 OF 2
 Rev. Date: 08JUN20
 Not to Scale
 Review Date: 08JUN20

DR-3.1

GENERAL NOTES:
 1. INSTALLATION REQUIRES A MINIMUM OF ONE 4'-0" LONG SECTION OF REINFORCED CONCRETE PIPE BETWEEN CATCH BASINS.
 2. SEE NCDOT STANDARD 840.01 FOR DETAILS BASED ON PIPE SIZE PER CROSS SECTION.
 3. CONSTRUCT TWO SINGLE BASINS PER NCDOT STANDARD WITH DOUBLE INTERIOR WALL.
 4. ALL CONCRETE TO BE 3000 P.S.I. COMPRESSIVE STRENGTH.
 5. BASE SLAB SHALL BE MONOLITHIC.
 6. SEE CITY OF FAYETTEVILLE STANDARDS SD-4 AND SD-5 FOR PLACEMENT OF CATCH BASIN.
 7. PIPE SECTION D2 CONNECTING CATCH BASINS SHALL HAVE A MINIMUM DIAMETER SAME AS OF OUTLET PIPE D3.
 8. ALL REINFORCING STEEL SHOWN ON NCDOT STANDARDS IS TO BE PROVIDED AS CONTINUOUS MEMBERS. (NO LAPS, USED AS A SINGLE CONTINUOUS BAR IN THE SLAB)

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TYPICAL BRICK DOUBLE CATCH BASIN 15" THRU 36" PIPE
 DR-4
 Rev. Date: 16JAN18
 Not to Scale
 Review Date: 01JAN19

GENERAL NOTES:
 1) DIMENSION "T" SHALL BE 12" ± WIDTH OF DAMAGE.
 2) EXISTING PIPE REMOVED SHALL BE REPLACED WITH NEW RCP.
 3) COLLARS NOT TO BE USED IF DAMAGE IS 16" OR CLOSER TO EXISTING STRUCTURE. IF DAMAGE IS THIS CLOSE NEW PIPE TO BE RE-LAID TO NEAREST STRUCTURE.
 4) ALL WORK TO BE INSPECTED BY SENIOR ENGINEER OR DESIGNATE PRIOR TO CONCRETE PLACEMENT.
 5) CONSTRUCT COLLAR WITH FORMED 3000 PSI CONCRETE WITH AIR ENTRAINMENT.
 6) DAMAGED PIPE WITH MORE THAN 3" OF DAMAGE SHALL BE REPLACED WITH NEW PIPE.
 7) METAL FLASHING SHALL BE USED TO SEAL JOINT PRIOR TO CONCRETE PLACEMENT. GAP AT JOINT MAY NOT EXCEED 3".

D	E	F	CU. YD.
15"	8"	12"	0.3990
18"	8"	12"	0.4465
24"	12"	12"	0.5526
30"	12"	12"	0.6560
36"	12"	12"	0.7640
42"	12"	12"	0.8856
48"	12"	12"	1.0226
54"	18"	18"	2.5793
60"	18"	18"	2.8506
66"	18"	18"	3.1307
72"	18"	18"	3.4176

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CONCRETE PIPE COLLAR FOR REPAIRING STORM DRAINS
 ADOPTED FROM NCDOT STANDARD NO. 840.00
 Rev. Date: 16JAN18
 Not to Scale
 Review Date: 01JAN19

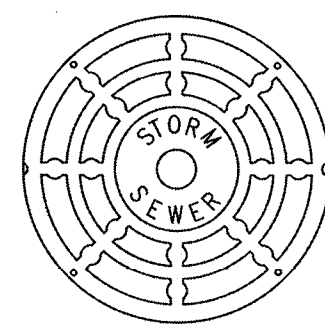
DR-10

GENERAL NOTES:
 1. MORTAR JOINTS 1/2" ± 1/8" THICK.
 2. USE CLASS "B" CONCRETE THROUGHOUT.
 3. USE FORMS FOR CONSTRUCTION OF THE BOTTOM SLAB.
 4. USE #4 BAR DOWELS AT 12" CENTERS.
 5. DEDUCT FOR PIPE(S) FROM TOTAL CU. YDS. OF BRICK MASONRY.
 6. PROVIDE ALL CATCH BASINS OVER 3'-6" IN DEPTH WITH STEPS 12" ON CENTER. USE STEPS WHICH COMPLY WITH STD. DRAWING 840.66.
 7. USE BRICK OR CONCRETE BLOCK WHICH COMPLES WITH THE REQUIREMENTS OF SECTION 840 OF THE STANDARD SPECIFICATIONS.
 8. IF REINFORCED CONCRETE PIPE IS SET IN BOTTOM SLAB OF BOX, ADD TO SLAB AS SHOWN ON STD. NO. 840.00.
 9. FOR 8'-0" IN HEIGHT OR LESS, USE 8" WALL OVER 8'-0" IN HEIGHT, USE 12" WALL TO 8'-0" FROM TOP OF WALL AND 8" WALL FOR THE UPPER 6'-0". QUANTITIES TO BE ADJUSTED ACCORDINGLY.
 10. CONSTRUCT WITH PIPE CROWNS MATCHING.
 11. SEE HEIGHT STANDARDS DRAWING 840.25 FOR ATTACHMENT OF FRAMES AND GRATES.
 12. DO NOT USE BRICK MASONRY DROP INLET IN LOCATIONS SUBJECT TO ICEING.
 13. CHAMFER ALL EXPOSED CORNERS 1".

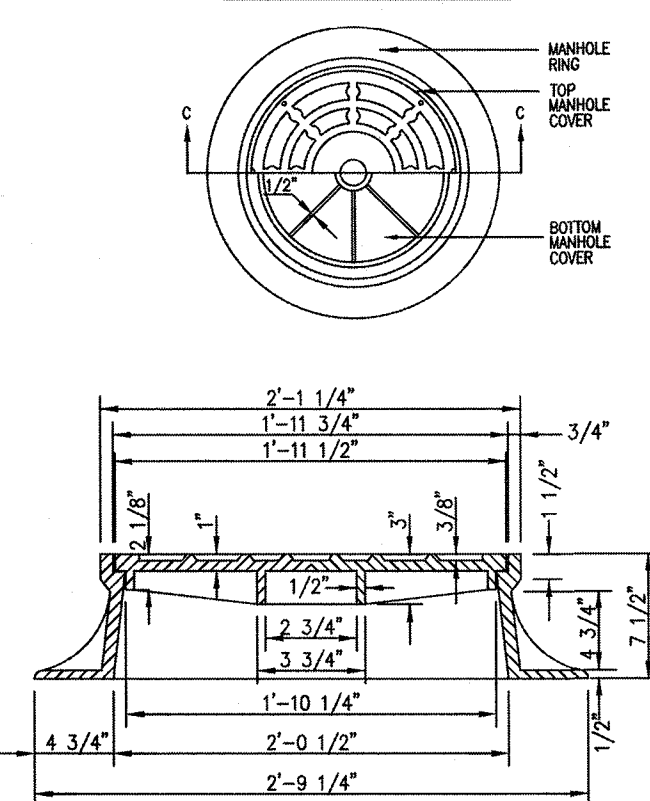
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DROP INLET WITH GRATE 12" TO 30" PIPE
 NCDOT STANDARD NO. 840.15
 Rev. Date: 16JAN18
 Not to Scale
 Review Date: 01JAN19

DR-11



TOP OF MANHOLE



SECTION C - C

SPECIFICATIONS

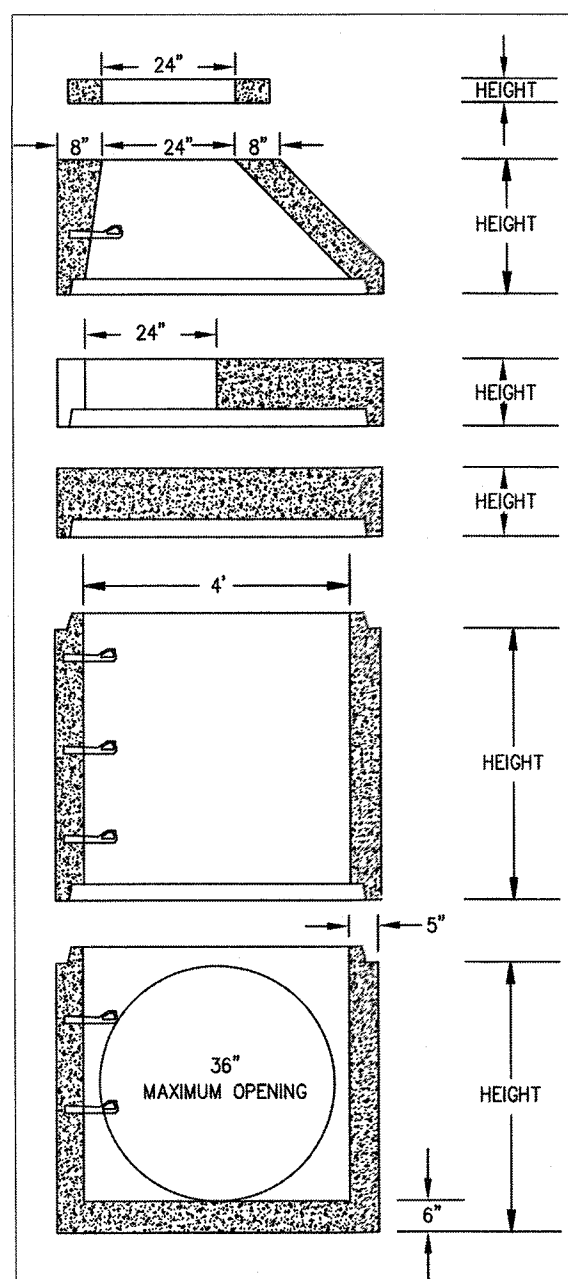
- MANHOLE RING AND COVER TO BE MADE OF GREY CAST IRON CONFORMING TO ASTM SPECIFICATIONS A 48-74, CLASS 30. ALL CASTINGS SHALL CONFORM TO THE SHAPE AND DIMENSIONS SHOWN. THEY SHALL BE CLEAN AND PERFECT WITHOUT BLOW OR SANDHOLES OR DEFECTS OF ANY KIND, TENDS TO IMPAIR THEIR STRENGTH. NO PLUGGING OR STOPPING OF DEFECTIVE HOLES WILL BE PERMITTED.
- MANHOLE RING AND COVER TO WITHSTAND VEHICULAR TRAFFIC WITHOUT OBJECTIONABLE NOISE.
- MINIMUM AVERAGE WEIGHT: FRAME: 180 LBS COVER: 120 LBS

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STANDARD MANHOLE RING AND COVER
ADOPTED FROM NCDOT
STANDARD NO. 840.54

Rev. Date: 16JAN18
Not to Scale
Review Date: 01JAN19

DR-13



EQUILY VARIATION PLANT SPECIFICATIONS:
ASTM C 478 - LATEST
ASTM M 199 - LATEST
WITH AASHTO M-1988 PREFORMED PLASTIC OR ASTM C-443 RUBBER GASKET JOINTS. REINFORCED IN ACCORDANCE WITH APPLICABLE SPECIFICATIONS.

HEIGHT FEET	HEIGHT INCHES	WEIGHT POUNDS	SOLID FLAT TOP	
			HEIGHT	WEIGHT
.33'	4"	150	1.00'	12"
.50'	6"	235	1.00'	12"
ECCENTRIC CONE				
2.00'	24"	1695	1.00'	12"
3.00'	36"	2550	2.67'	32"
4.00'	48"	3400	4.00'	48"
FLAT TOP				
1.00'	12"	1700	2.67'	32"
REGULAR MONOLITHIC BASE				
WITH 6" BASE INCLUDED IN HEIGHT SHOWN.				
2.67' 32" 3250				
4.00' 48" 4460				
5.33' 60" 5265				

FLAT TOPS ARE AVAILABLE IN ECCENTRIC (AS SHOWN) AND CONCENTRIC UNITS. FLAT TOPS MEET H-20 LOADING.

NOTES:
1. PRECAST MANHOLES MAY BE USED WITH PRIOR APPROVAL FROM THE CITY ENGINEER.
2. PRECAST MANHOLES ARE NOT PERMITTED INSIDE RIGHT-OF-WAY OR EASEMENTS.

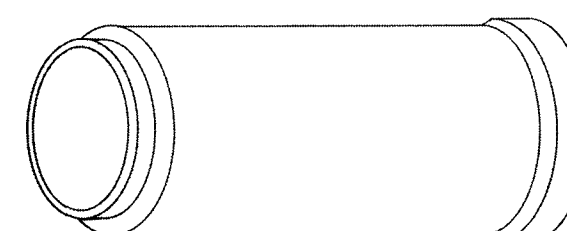
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4-FOOT DIAMETER PRECAST REINFORCED CONCRETE MANHOLE SECTIONS

Rev. Date: 16JAN18
Not to Scale
Review Date: 01JAN19

DR-14

SIZE D	T	L	POUNDS PER FOOT	ASTM SPEC. & CLASS	OD	A	B	C	E	F	G	J	K	M	N	PLANT
15	B2 1/4"	8'	134	ASTM C78 III IV V	19 1/2"	2	16 15/16"	17 1/4"	2	17 3/4"	17	21 3/4"	4 1/2"	7 1/16"	1 1/4"	SR
18	B2 1/2"	6'	173	ASTM C78 III IV V	23	2	20	20 3/4"	2	21 1/4"	20 1/2"	23 1/4"	6 1/2"	3 3/4"	1 1/4"	WN-KN
24	B3	8'	268	ASTM C78 III IV V	30	2 1/2"	26 3/16"	26 7/8"	2 3/16"	27 3/4"	27	31 1/2"	4 1/4"	4 1/4"	1 1/2"	SR
30	B3 1/2"	6'	396	ASTM C78 III IV V	37	2 15/16"	32 1/16"	33 1/8"	3	34 1/2"	33 1/2"	38 1/2"	5 1/2"	3 3/4"	1 1/2"	SR-K
36	B4	8'	543	ASTM C78 III IV V	44	3 3/4"	39 1/4"	39 5/8"	3 13/16"	40 19/32"	40 5/16"	46 1/2"	6	1 1/2"	2 1/16"	SR-K



A MINIMUM OF 6" OF #57 WASHED STONE IS REQUIRED FOR ALL PIPE INSTALLATION. SEE CITY OF FAYETTEVILLE STANDARD DETAIL DR-1.

MODIFIED TONGUE AND GROOVE

8 FOOT LENGTH

MORTAR OF FLEXIBLE PLASTIC TYPE JOINT

MINIMUM FILL UNDER ROADWAYS	
PIPE CLASS	MINIMUM FILL
CLASS III	2'
CLASS IV	1'
CLASS V	1'

FILL HEIGHT IS MEASURED FROM THE TOP OF THE PIPE TO THE BOTTOM OF THE PAVEMENT STRUCTURE.

SPECIFICATIONS:
ASTM C 76-LATEST
NCDOT
REINFORCED IN ACCORDANCE WITH APPLICABLE SPECIFICATIONS

LEFT HOLES STANDARD ON 36" AS ALLOWED PER ASTM SPECIFICATIONS

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REINFORCED CONCRETE SEWER, STORM DRAIN AND CULVERT 15" THRU 36" PIPE

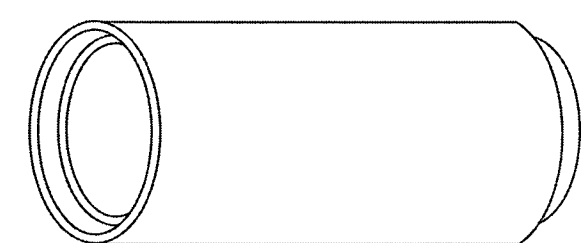
Rev. Date: 16JAN18
Not to Scale
Review Date: 01JAN19

DR-19

SIZE D	T	L	POUNDS PER FOOT	ASTM SPEC. & CLASS	OD	A	B	C	E	F	G	PLANT
42	C5 1/4"	8'	807	ASTM C76 III IV V	52 1/2"	4 1/4"	45 15/32"	46 17/32"	4 5/16"	47 3/16"	46 7/8"	SR
48	C5 3/4"	8'	1018	ASTM C76 III IV V	59 1/2"	4 1/4"	51 3/4"	52 1/2"	4 5/16"	53 3/16"	52 7/8"	SR
54	C6 1/4"	8'	1228	ASTM C76 III IV V	66 1/2"	4 1/4"	57 1/2"	58 1/4"	4 5/16"	58 19/32"	58 19/32"	SR
60	C6 3/4"	8'	1488	ASTM C76 III IV V	73 1/2"	4 3/4"	63 15/16"	64 25/32"	4 13/16"	65 1/32"	65 7/8"	SR
66	C7 1/4"	8 1/2"	1791	ASTM C76 III IV V	80 1/2"	5	71	71 11/16"	5 1/16"	71 7/8"	71 19/32"	SR
72	C7 3/4"	8 1/2"	2052	ASTM C76 III IV V	87 1/2"	5	77 9/32"	77 15/16"	5 1/16"	78 1/8"	77 7/8"	SR

MINIMUM FILL UNDER ROADWAYS	
PIPE CLASS	MINIMUM FILL
CLASS III	2'
CLASS IV	1'
CLASS V	1'

FILL HEIGHT IS MEASURED FROM THE TOP OF THE PIPE TO THE BOTTOM OF THE PAVEMENT STRUCTURE.



A MINIMUM OF 6" OF #57 WASHED STONE IS REQUIRED FOR ALL PIPE INSTALLATION. SEE CITY OF FAYETTEVILLE STANDARD DETAIL DR-1.

MODIFIED TONGUE AND GROOVE

8 FOOT LENGTH

MORTAR OF FLEXIBLE PLASTIC TYPE JOINT

SPECIFICATIONS:
ASTM C 76-LATEST
NCDOT
REINFORCED IN ACCORDANCE WITH APPLICABLE SPECIFICATIONS

LEFT HOLES STANDARD ON 36" AS ALLOWED PER ASTM SPECIFICATIONS

Fayetteville ENGINEERING DIVISION
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REINFORCED CONCRETE SEWER, STORM DRAIN AND CULVERT 42" THRU 72" PIPE

Rev. Date: 16JAN18
Not to Scale
Review Date: 01JAN19

DR-19.1

SIZE D IN.	MIN. SLOPE (FT)		CLEARANCE DIST. (FT)	
	ROP	CMP	ROP	CMP
15	0.00325	0.01107	2.4	2.3
18	0.00255	0.00868	2.7	2.6
24	0.00174	0.00592	3.3	3.1
30	0.00129	0.00439	3.8	3.6
36	0.00101	0.00345	4.3	4.1
42	0.00082	0.00281	4.9	4.6
48	0.00069	0.00235	5.4	5.1

MINIMUM FILL UNDER ROADWAYS	
PIPE CLASS	MINIMUM FILL
CLASS III	2'
CLASS IV	1'
CLASS V	1'

FILL HEIGHT IS MEASURED FROM THE TOP OF THE PIPE TO THE BOTTOM OF THE PAVEMENT STRUCTURE.

- NOTES:
1. THE MAXIMUM PIPE VELOCITY SHALL NOT EXCEED 20 FT PER SEC., BUT SHALL NOT CAUSE SCOUR OR OTHER EROSION PROBLEMS IN THE RECEIVING CHANNEL.
2. SLOPES REQUIRED TO MAINTAIN MINIMUM VELOCITY OF 3 FT PER SEC. AT FULL FLOW.
3. THE MINIMUM SIZE STORM DRAIN PIPE SHALL BE 15 IN.
4. ALL STORM DRAINAGE PIPE USED WITHIN CITY RIGHT-OF-WAY SHALL BE REINFORCED CONCRETE PIPE (ROP). ALL ROP SHALL BE CLASS III OR HIGHER.
5. CLEARANCE DISTANCE IS DETERMINED FROM THE PIPE INVERT ELEVATION UP.
6. A MINIMUM OF 6" OF #57 WASHED STONE IS REQUIRED FOR ALL PIPE INSTALLATION. SEE CITY OF FAYETTEVILLE STANDARD DETAIL DR-1.

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MINIMUM SLOPE & COVER FOR STORM DRAIN AND CULVERT PIPE

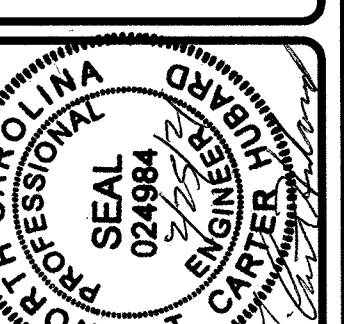
Rev. Date: 16JAN18
Not to Scale
Review Date: 01JAN19

DR-19.2

REVISIONS	DATE	BY

DATE: 2/5/2021
SURVEY/DESIGN BY: STEWART
DRAWN BY: AMH/DK
CHECKED BY: TCH
SCALE: HORIZ. 1"=10'
VERT. 1"=10'

WICKSON
COMMUNITY DEVELOPMENT CONSULTANTS
720 Corporate Center Drive
Raleigh, North Carolina 27607
(919) 782-8872
www.wickson.com



STORM DRAINAGE DETAILS (2)
ANNEXATION PHASE V, AREA 24, SECTIONS B & C
FAYETTEVILLE, NORTH CAROLINA

FAYETTEVILLE PUBLIC WORKS COMMISSION
WATER RESOURCES ENGINEERING
P.O. Box 1088 Fayetteville, NC 28402
955 Old Wilmington Road, Fayetteville, NC 28401

7590M5 Grate

Product Number
07590M5

Design Features
-Material
-Gray Iron (G.358)
-Open Area
-415 sq in
-Unlipid
-Designates Machined Surface

Certification
-ASTM A48
-Country of Origin: USA

Drawing Revision
08/01/2016 Revised By: DVD

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7590T8 Hood

Product Number
07590T8

Design Features
-Material
-Gray Iron (G.358)
-Open Area
-415 sq in
-Unlipid
-Designates Machined Surface

Certification
-ASTM A48
-Country of Origin: USA

Drawing Revision
08/02/2016 Revised By: DVD

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7591Z1 Curb Inlet Frame

Product Number
07591Z1

Design Features
-Material
-Gray Iron (G.358)
-Design Load
-Open Area
-Unlipid
-Designates Machined Surface

Certification
-ASTM A48
-Country of Origin: USA

Drawing Revision
08/02/2016 Revised By: DAE

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**TYPICAL 24\"/>
**TYPICAL 24\"/>
**TYPICAL 24\"/>
**TYPICAL 30\"/>
**TYPICAL 30\"/>
TYPICAL 30\"/>**********

NOTES
1. ALL CURBS CONSTRUCTED OF 3000 PSI CONCRETE.
2. CONTRACTION JOINTS EVERY 10'; EXPANSION JOINTS EVERY 30'.
3. CURB SHALL BE DEPRESSED AT INTERSECTIONS TO PROVIDE FOR FUTURE ACCESSIBLE RAMPS.
4. TOP 6\"/>

Fayetteville
ENGINEERING DIVISION
433 HAY ST. 28301
(910) 433-1656
http://www.fayetteville.com

**24\"/>
SD-1**

PLAN VIEW
ELEVATION
SECTION - AA
SECTION - BB
SECTION - CC

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**STANDARD CATCH BASIN TRANSITION FOR 24\"/>
SD-4**

7590M5 Grate

7590T8 Hood

7591Z1 Curb Inlet Frame

STORM DRAINAGE DETAILS (3)
ANNEXATION PHASE V, AREA 24, SECTIONS B & C
FAYETTEVILLE, NORTH CAROLINA

FAYETTEVILLE PUBLIC WORKS COMMISSION
PWC WATER RESOURCES ENGINEERING
P.O. Box 1008, Fayetteville, NC 28301
855 One Wilmington Road, Fayetteville, NC 28301

PWC DWG # DS-15513

20190126.00.RA

REVISIONS

DATE	REVISIONS

DATE: 2/5/2021
SURVEY/GPS BY: STEWART
DRAWN BY: AMH/DK
CHECKED BY: TCH
SCALE: VERT: 1"=10'
HORIZ: 1"=10'

PWC
Public Works Commission
Water Resources Engineering
720 Corporate Center Drive
Raleigh, North Carolina 27607
(919) 752-9872
www.pwcnc.com

FAYETTEVILLE PROFESSIONAL ENGINEERS
T. CAMPBELL

SHEET # 6/10

STORM DRAINAGE DETAILS (3)
ANNEXATION PHASE V, AREA 24, SECTIONS B & C
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