

LEGEND

---	EXISTING 10' CONTOUR (SEE REFERENCE 1)
---	EXISTING 2' CONTOUR (SEE REFERENCE 1)
---	PROPOSED 10' CONTOUR
---	PROPOSED 2' CONTOUR
---	EXISTING PROPERTY LINES (SEE REFERENCE 2)
---	APPROXIMATE EASEMENT/R.O.W. (SEE REFERENCE 2)
---	BUILDING SETBACK
X-X	CHAIN LINK FENCE
W	PROPOSED WATER LINE
S	PROPOSED SEWER
SS	SANITARY SEWER
SD	STORM DRAIN
DHE	OVERHEAD ELECTRIC
G	UNDERGROUND GAS
RW	RIGHT OF WAY
---	DITCH/SWALE (APPROXIMATE)
---	PROPOSED CULVERT
---	DRAINAGE CHANNEL
---	10-FT VEGETATIVE BUFFER
---	AGGREGATE SURFACING
---	CONCRETE PAVEMENT
---	ASPHALT SURFACING
BF	BACKFLOW PREVENTER
W	WATER METER
○	SEWER CLEANOUT
⊗	EXTERIOR LIGHTS

PROJECT: ASSEMBLY COURT SOLID WASTE CONVENIENCE CENTER
 OWNER: CUMBERLAND COUNTY
 117 DICK STREET
 FAYETTEVILLE, NC 28301
 PHONE: (910) 814-6156
 ENGINEER: SMITH GARDNER, INC.
 14 N. BOYLAN AVE.
 RALEIGH, NC 27603
 PHONE: (919) 828-0577

SITE DATA:
 REID: 0433091645000
 PIN: 0433-09-1645
 DEED BOOK 2927, PAGE 153
 RECORDED: JULY 01, 1984
 ZONED: M(IP)
 CURRENT LAND USE CLASSIFICATION: CUMBERLAND INDUSTRIAL CENTER
 PROPOSED LAND USE CLASSIFICATION: RECYCLING COLLECTION CENTERS & SOLID WASTE CONTAINER SITES (MANNED)

ROCKFISH TOWNSHIP
 CUMBERLAND COUNTY, NORTH CAROLINA

THIS PROJECT IS NOT LOCATED IN THE 100-YEAR FLOOD PLAIN
 FIRM PANEL #3720042300J & FIRM PANEL #3720043300J; EFFECTIVE DATE: JAN. 5, 2007
 ZONE: M(P)

OPERATING HOURS: 7:30 AM - 5:30 PM M-SAT

SETBACKS REQUIRED:

FRONT	100 FT
SIDE	50 FT
REAR	50 FT

REFERENCES

- EXISTING TOPOGRAPHY PROVIDED BY JOYNER KEENE TOPOGRAPHIC SURVEY TITLED "LOT 6B, PLAT BOOK 116 PAGE 196" DATED OCT. 19 2021 WITH SUPPLEMENTAL TOPOGRAPHY PROVIDED BY NORTH CAROLINA SPATIAL DATA 2014 LIDAR.
- PROPERTY LINE, EASEMENTS, AND SITE UTILITIES PROVIDED BY JOYNER KEENE TOPOGRAPHIC SURVEY TITLED "LOT 6B, PLAT BOOK 116 PAGE 196" DATED OCT. 19 2021.
- EXISTING WATER AND SEWER INFORMATION FROM DRAWING SET ENTITLED "CUMBERLAND INDUSTRIAL CENTER - GRADING, PAVING, DRAINAGE & UTILITY IMPROVEMENTS PHASE VIII (ASSEMBLY COURT)" BY MOORMAN, KIZER & REITZEL, INC. DATED AUG. 22, 1995.

NOTES

- EXISTING UTILITIES TO BE LOCATED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
- CONSTRUCTION WILL NOT COMMENCE UNTIL ALL NECESSARY NCDOT AND FAYETTEVILLE PVC PERMITS HAVE BEEN OBTAINED FOR THE PROJECT.
- VEGETATIVE BUFFER:
 - A. A VEGETATIVE BUFFER SHALL BE A MINIMUM OF THREE FEET IN HEIGHT AT TIME OF PLANTING TO REACH A HEIGHT OF SIX FEET WITHIN THREE CALENDAR YEARS;
 - B. SOLID NON-VEGETATIVE FENCING SHALL HAVE A MINIMUM HEIGHT OF SIX FEET;
 - C. BUFFER VEGETATIVE SHALL BE LOCATED BETWEEN ANY FENCE AND THE COMMON PROPERTY LINE.
- LIGHTING MUST COMPLY WITH THE CUMBERLAND COUNTY ZONING ORDINANCE, SECTION 1102 (M).
- PROPOSED FACILITY RECEIVED SITE PLAN APPROVAL (PLAN NO. DEV-0192-22) FROM CUMBERLAND COUNTY ON 8/28/2023.
- EROSION AND SEDIMENTATION CONTROL PLAN FOR SITE INCLUDING THE DRIVEWAY APPROVED BY NCDOT FAYETTEVILLE REGIONAL OFFICE UNDER PROJECT NUMBER CUMBE-2023-056.
- SITE HAS NPDES CONSTRUCTION STORMWATER COVERAGE UNDER PERMIT NO. NC0224091.
- LOCATION OF EXISTING UTILITIES TO BE VERIFIED IN FIELD BY THE CONTRACTOR.
- FIRE LINE IS NOT NEEDED FOR THIS PROJECT.
- PVC O&M ENDS AT METERS AND THE FIRST SSCO FROM THE MAIN OR EASEMENT LINE.
- SANITARY SEWER LATERAL TO BE 6" DIA. DIP WHERE FILL ABOVE THE LATERAL < 3'.
- ENSURE WATER METER IS OUTSIDE OF ASPHALT PAVEMENT.
- PROPOSED GRADES SHOWN REPRESENT TOP OF FINISHED GRADE OR TOP OF PAVEMENT/AGGREGATE SURFACING IN APPLICABLE AREAS.



Know what's below.
Call before you dig.



FOR BIDDING
NOT FOR CONSTRUCTION

PREPARED FOR:
**CUMBERLAND COUNTY
SOLID WASTE
MANAGEMENT DEPARTMENT
FAYETTEVILLE,
NORTH CAROLINA**

PREPARED BY:
NC LIC. NO. F-1370 (ENGINEERING)
SC COA NO. C01488

**SMITH+
GARDNER
ENGINEERS**
14 N. Boylan Avenue, Raleigh NC 27603 | 919.828.0577
1526 Richland St., Columbia SC 29201

Seal for Stacey A. Smith, Professional Engineer, License No. 023002, dated 12/2025.

Seal for Jesse C. Llesse, Professional Engineer, License No. 054367, dated 12/2025.

REV.	DATE	DESCRIPTION
1	9/24	UTILITY UPDATES
2	3/25	RE-BID
3	5/25	RE-BID

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PROJECT TITLE:
**ASSEMBLY COURT
SOLID WASTE
CONVENIENCE CENTER**

DRAWING TITLE:
SITE PLAN

DESIGNED	J.C.L.	PROJECT NO.	CUMBERLAND 21-8
DRAWN	J.R.G.	SCALE	AS SHOWN
APPROVED	JCL	DATE	AUG. 2022
FILE NAME	CUMBERLAND-D0157		
SHEET NUMBER	3	DRAWING NUMBER	S2

FOR BIDDING

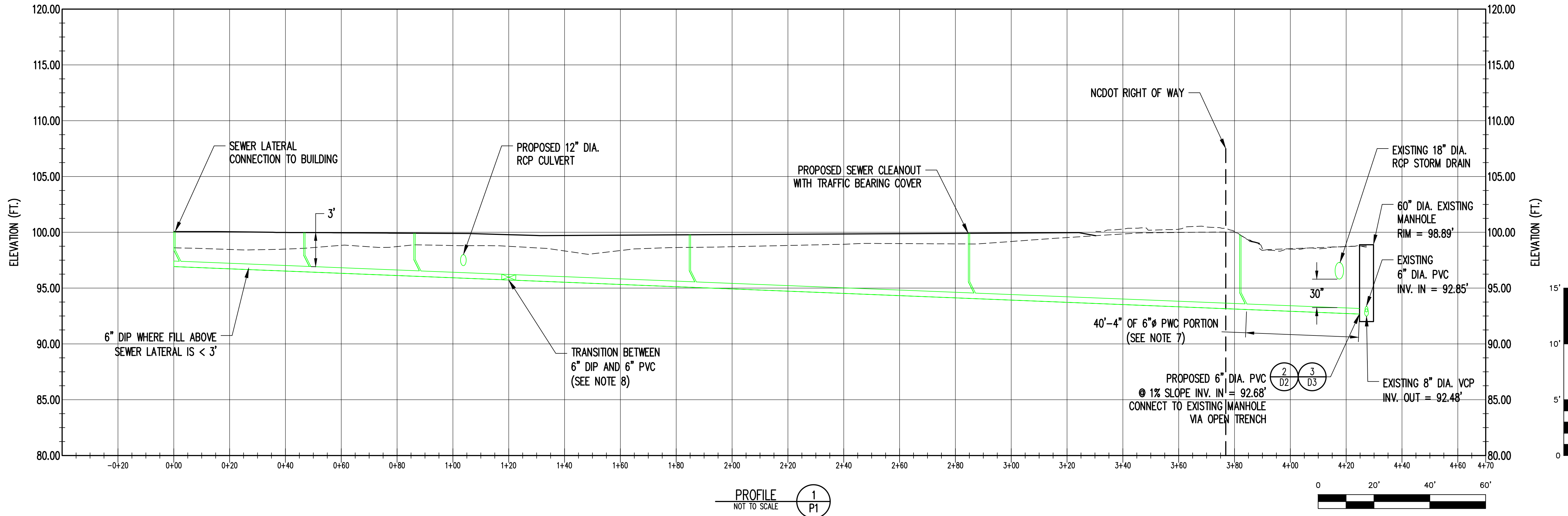
NOT FOR CONSTRUCTION

LEGEND:
- - - - - EXISTING GROUND SURFACE
- - - - - PROPOSED GROUND SURFACE
- - - - - SEWER PIPES
- - - - - RIGHT OF WAY BOUNDARY

PREPARED FOR:
**CUMBERLAND COUNTY
SOLID WASTE
MANAGEMENT DEPARTMENT
FAYETTEVILLE,
NORTH CAROLINA**

PREPARED BY:
NC LIC. NO. F-1370 (ENGINEERING)
SC COA. NO. C01488
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1526 Richland St., Columbia SC 29201

SEAL
Signed by:
Stacy A. Smith
NORTH CAROLINA
PROFESSIONAL
ENGINEER
SEAL
023002
2025
SEAL
DocuSigned by:
Jesse C. Vesce
NORTH CAROLINA
PROFESSIONAL
ENGINEER
SEAL
054367
2025



REV.	DATE	DESCRIPTION
1	9/24	UTILITY UPDATES
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- NOTES:**
1. PROPOSED FACILITY RECEIVED SITE PLAN APPROVAL (PLAN NO. DEV-0192-22) FROM CUMBERLAND COUNTY ON 8/28/2023.
 2. EROSION AND SEDIMENTATION CONTROL PLAN FOR SITE INCLUDING THE DRIVEWAY APPROVED BY NCDEQ FAYETTEVILLE REGIONAL OFFICE UNDER PROJECT NUMBER CUMBE-2023-056.
 3. SITE HAS NPDES CONSTRUCTION STORMWATER COVERAGE UNDER PERMIT NO. NCC224091.
 4. FLOW TEST FOR FIRE HYDRANT 005875 COMPLETED ON 11/17/23.
 5. CONTRACTOR TO VERIFY LOCATION OF EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION ACTIVITIES.
 6. FIRE LINE IS NOT NEEDED FOR THIS PROJECT.
 7. PWC O&M ENDS AT METERS AND THE FIRST SSCO FROM THE MAIN OR EASEMENT LINE.
 8. SANITARY SEWER LATERAL TO BE 6" DIA. DIP WHERE FILL ABOVE THE LATERAL < 3'.

- REFERENCES**
1. EXISTING TOPOGRAPHY PROVIDED BY JOYNER KEENEY TOPOGRAPHIC SURVEY TITLED "LOT 6B, PLAT BOOK 116 PAGE 196" DATED OCT. 19 2021 WITH SUPPLEMENTAL TOPOGRAPHY PROVIDED BY NORTH CAROLINA SPATIAL DATA 2014 LIDAR.
 2. PROPERTY LINE, EASEMENTS, AND SITE UTILITIES PROVIDED BY JOYNER KEENEY TOPOGRAPHIC SURVEY TITLED "LOT 6B, PLAT BOOK 116 PAGE 196" DATED OCT. 19 2021.
 3. EXISTING WATER AND SEWER INFORMATION FROM DRAWING SET ENTITLED "CUMBERLAND INDUSTRIAL CENTER - GRADING, PAVING, DRAINAGE & UTILITY IMPROVEMENTS PHASE VIII (ASSEMBLY COURT)" BY MOORMAN, KIZER & REITZEL, INC. DATED AUG. 22, 1995.

PROJECT TITLE:
**ASSEMBLY COURT
SOLID WASTE
CONVENIENCE CENTER**

DRAWING TITLE:
SEWER UTILITY PROFILE

DESIGNED: J.C.L.	PROJECT NO: CUMBERLAND 21-8
DRAWN: J.B.G.	SCALE: AS SHOWN
APPROVED: JCL	DATE: AUG. 2022
FILENAME: CUMBERLAND-D0157	DRAWING NUMBER: 4 P1

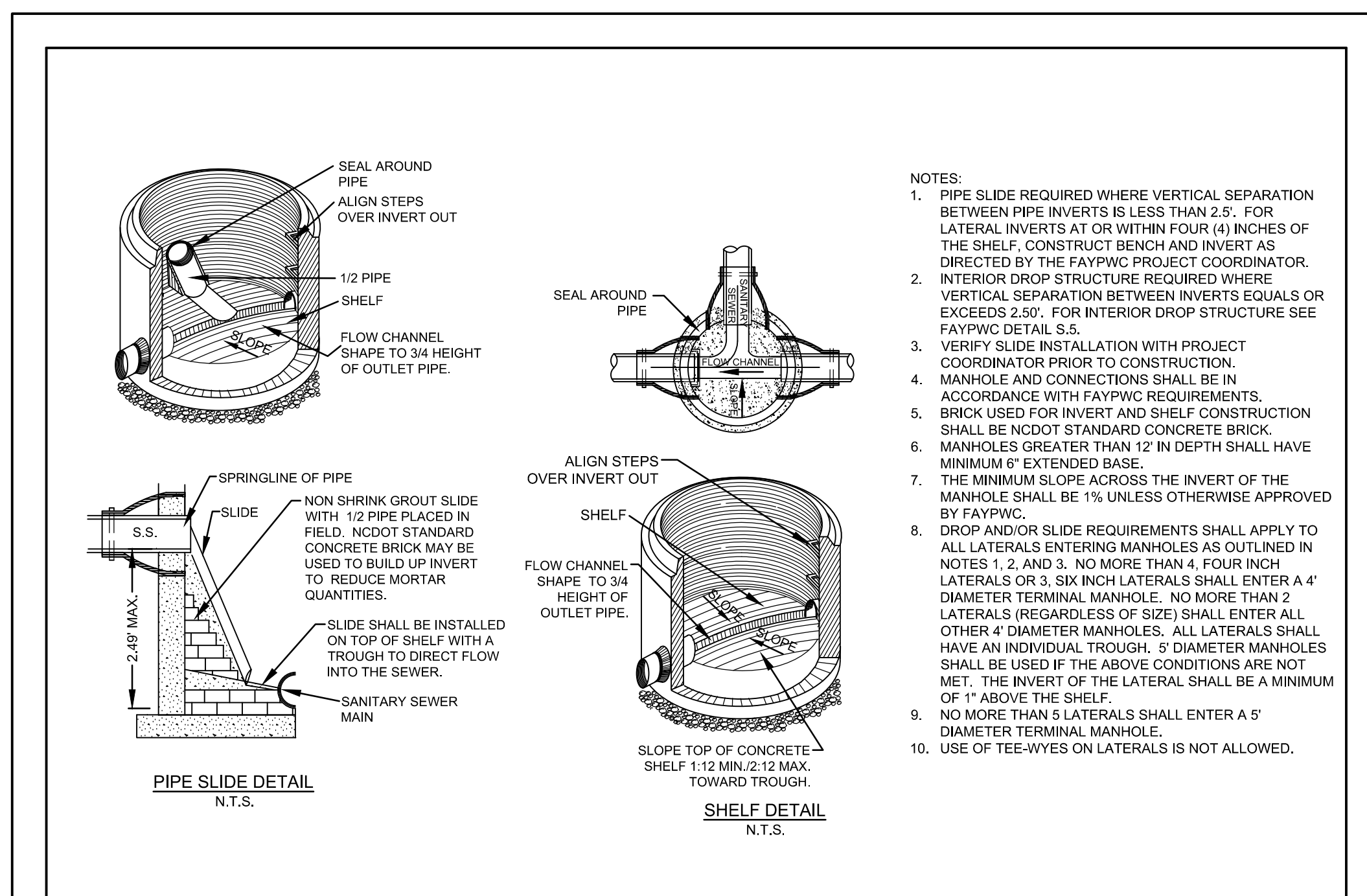
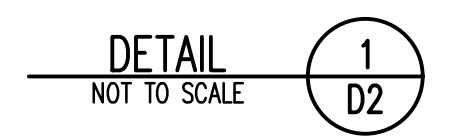


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- ALL SEWER MAINS, LATERALS, AND APPURTENANCES SHALL BE INSTALLED AND TESTED IN ACCORDANCE WITH FAYETTEVILLE FAYPWC STANDARDS.
- CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.
- CONSTRUCTION STAKING IS REQUIRED FOR ALL FAYPWC WATER AND SEWER UTILITY INSTALLATIONS. CUT SHEETS, SIGNED AND SEALED BY A NC PLS, SHALL BE PROVIDED TO THE FAYPWC WATER RESOURCES ENGINEERING DEPARTMENT AND THE CONTRACTOR IN ADVANCE OF CONSTRUCTION FOR FAYPWC WATER AND SEWER UTILITIES.
- CONTRACTOR SHALL MAINTAIN A COPY OF THE SIGNED AND SEALED CUT SHEET ON THE JOB SITE. CONSTRUCTION ON FAYPWC WATER AND SEWER UTILITIES CANNOT BEGIN UNTIL THE CONTRACTOR POSSESSES, ON SITE, A SIGNED AND SEALED CUT SHEET FROM THE PROFESSIONAL LAND SURVEYOR.
- ALL NEW WATER AND SEWER MAINS, LATERALS, AND APPURTENANCES SHALL BE TESTED AND/OR DISINFECTED IN ACCORDANCE WITH FAYETTEVILLE FAYPWC STANDARDS PRIOR TO PLACING INTO SERVICE.
- CONTRACTOR SHALL COORDINATE TESTING AND INSPECTION WITH THE FAYETTEVILLE FAYPWC PROJECT COORDINATOR.
- ALL DUCTILE IRON PIPE IN SANITARY SEWER SERVICE SHALL HAVE AN INTERIOR LINING OF PROTECTO 401 OR APPROVED EQUAL.
- ALL NEW MANHOLES ARE TO BE VACUUM-TESTED IN ACCORDANCE WITH FAYETTEVILLE FAYPWC STANDARDS.
- CONTRACTOR SHALL REPAIR ALL SEWER LATERALS AND MAINS DAMAGED DURING CONSTRUCTION. THE CONTRACTOR SHALL IMMEDIATELY REPORT ALL SEWER MAIN AND LATERAL BREAKS TO THE FAYPWC PROJECT COORDINATOR. THE CONTRACTOR SHALL INITIATE IMMEDIATE REPAIRS IN ACCORDANCE WITH FAYPWC STANDARDS.
- TRANSFER OF SEWER SERVICES SHALL BE ACCOMPLISHED AS FOLLOWS:
 - INSTALL AND TEST NEW MAINS, MANHOLES, AND LATERALS. CLEANOUTS SHALL BE INSTALLED 18" INSIDE ROW UNLESS OTHERWISE DIRECTED BY FAYPWC.
 - CONNECT EXISTING PLUMBING TO NEW LATERAL UTILIZING THE NECESSARY FITTINGS AS DIRECTED BY FAYPWC.
 - AFTER ALL SERVICES HAVE BEEN TRANSFERRED TO THE NEW MAIN, THE EXISTING SEWER SYSTEM SHALL BE ABANDONED IN ACCORDANCE WITH FAYPWC REQUIREMENTS.
- CONTRACTOR SHALL ABANDON ("KILL-OUT") ANY EXISTING SEWER SERVICES THAT WILL NOT BE UTILIZED BY UNCOVERING THE EXISTING LATERAL AT THE MAIN, CUT AND PLUG AT BOTH ENDS, REMOVE THE EXISTING CLEANOUT AND COMBINATION, AND PLUG THE TAP OR TEE AT THE MAIN. FOR LATERALS THAT CONNECT TO A MANHOLE AND ARE TO BE ABANDONED ("KILLED-OUT"), THE LATERAL SHALL BE REMOVED FROM THE MANHOLE AND THE REMAINING VOID IN THE MANHOLE SHALL BE FILLED WITH BLOCK AND MORTAR.
- SEWER PLUGS SHALL BE INSTALLED TO ELIMINATE ANY DEBRIS OR OTHER MATERIAL FROM ENTERING THE ACTIVE SEWER SYSTEM. UPON ACCEPTANCE OF THE NEW SEWER SYSTEM, THE CONTRACTOR SHALL CLEAN THE NEW MAINS, REMOVE ALL DEBRIS, AND THEN REMOVE THE PLUG.
- ALL EXISTING UTILITIES IMPACTED BY CONSTRUCTION SHALL BE ADJUSTED TO FINISHED GRADE, IN ACCORDANCE WITH FAYPWC REQUIREMENTS.
- ALL WORK ON FAYPWC SEWER UTILITIES (MAINS, LATERALS, ETC) SHALL BE PERFORMED BY A LICENSED UTILITY CONTRACTOR. THE FAYETTEVILLE PUBLIC WORKS COMMISSION SHALL OBSERVE AND APPROVE ALL WORK ON FAYPWC SEWER UTILITIES. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH FAYPWC REQUIREMENTS.
- SEPARATION REQUIREMENTS:
 - LATERAL SEPARATION OF SEWER AND WATER MAINS:** WATER MAINS SHALL BE LAID AT LEAST 10 FEET LATERALLY FROM EXISTING OR PROPOSED SEWER MAIN/LATERAL, UNLESS LOCAL CONDITIONS OR BARRIERS PREVENTS A 10-FOOT LATERAL SEPARATION - IN WHICH CASE:
 - THE WATER MAIN IS LAID IN A SEPARATE TRENCH, WITH THE ELEVATION OF THE BOTTOM OF THE WATER MAIN AT LEAST 18-INCHES ABOVE THE TOP OF THE SEWER MAIN/LATERAL; OR
 - THE WATER MAIN IS LAID IN THE SAME TRENCH AS THE SEWER MAIN/LATERAL WITH THE WATER MAIN LOCATED AT ONE SIDE ON A BENCH OF UNDISTURBED EARTH AND WITH THE ELEVATION OF THE BOTTOM OF THE WATER MAIN IS AT LEAST 18-INCHES ABOVE THE TOP OF THE SEWER MAIN/LATERAL.
 - CROSSING A WATER MAIN OVER A SEWER:** WHENEVER IT IS NECESSARY FOR A WATER MAIN TO CROSS OVER A SEWER MAIN/LATERAL, THE WATER MAIN SHALL BE LAID AT SUCH AN ELEVATION THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST 18-INCHES ABOVE THE TOP OF THE SEWER MAIN/LATERAL.
 - CROSSING WATER MAIN UNDER A SEWER:** WHENEVER IT IS NECESSARY FOR A WATER MAIN TO CROSS UNDER A SEWER MAIN/LATERAL, A MINIMUM OF 18-INCHES OF SEPARATION SHALL BE PROVIDED. BOTH THE WATER MAIN AND THE SEWER MAIN/LATERAL SHALL BE CONSTRUCTED OF DUCTILE IRON MATERIAL AND WITH JOINTS EQUIVALENT TO WATER MAIN STANDARDS FOR A DISTANCE OF 10-FEET ON EACH SIDE OF THE POINT OF CROSSING. A SECTION OF WATER MAIN PIPE SHALL BE CENTERED AT THE POINT OF CROSSING.
 - CROSSING STORM DRAINAGE LINES:** A MINIMUM OF 24-INCHES OF VERTICAL CLEARANCE SHALL BE MAINTAINED BETWEEN A SEWER MAIN/LATERAL CROSSING UNDER A STORM DRAINAGE LINE UNLESS DUCTILE IRON PIPE IS USED. IF DUCTILE IRON PIPE IS USED, A MINIMUM OF SIX(6) INCHES OF SEPARATION SHALL BE MAINTAINED, UNLESS OTHERWISE APPROVED BY FAYPWC.

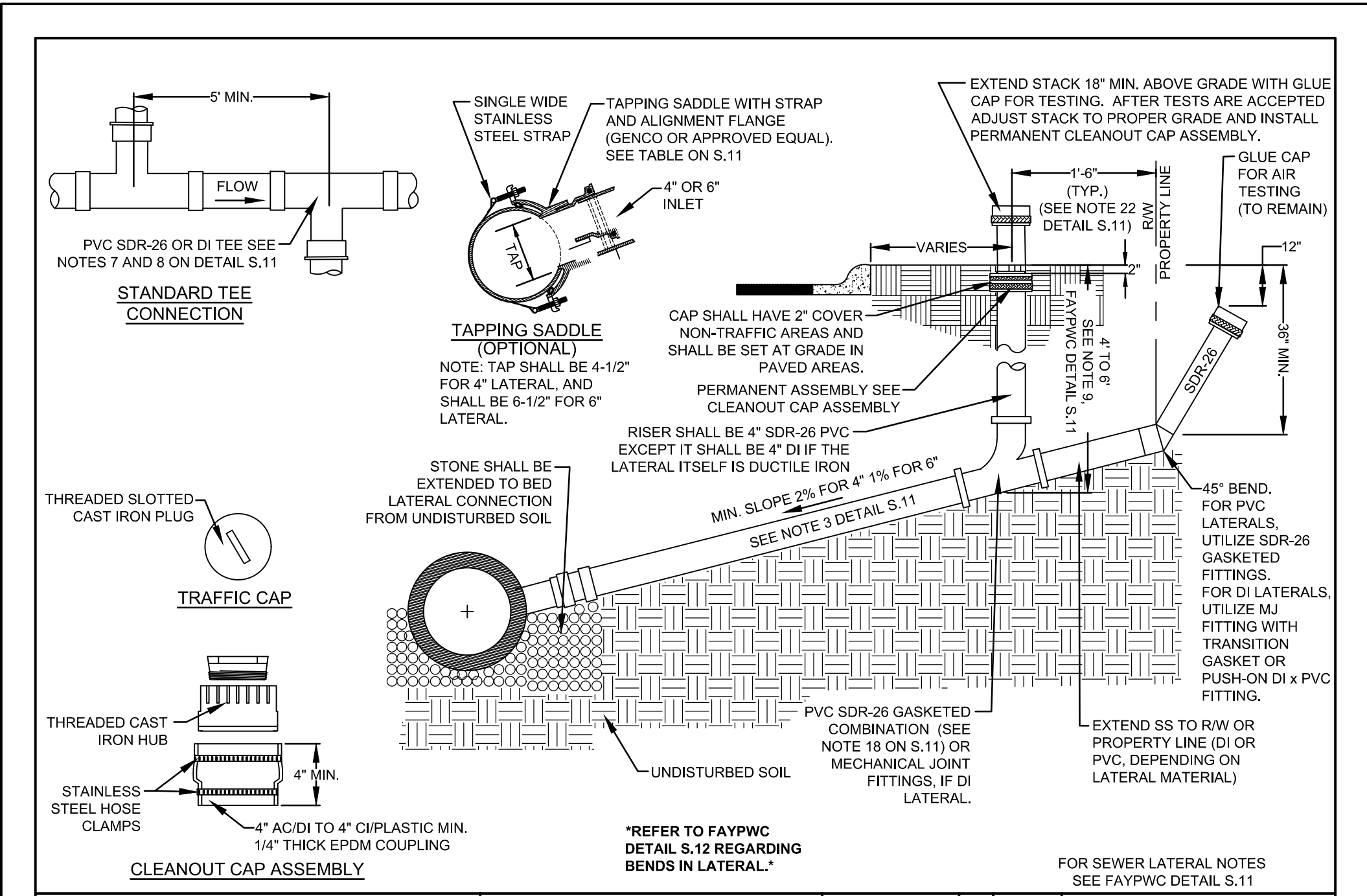
GENERAL NOTES SANITARY SEWER UTILITY		FAYETTEVILLE PUBLIC WORKS COMMISSION FAYETTEVILLE, N.C.		NO.	DATE	REVISION
SHEET NO. 1 OF 1	DWG. NO. S.1 DATE: JAN. 01, 2025	DWG. BY: FAYPWC APPROVED BY: K.A.H.	WATER RESOURCES ENGINEERING DEPARTMENT	1	01/18	ADDED NOTES 5, 8
				2	06/21	ADDED NOTES 1-8 AND RENUMBERED
				3	11/23	REVISED NOTE 15

GENERAL NOTES SANITARY SEWER UTILITY



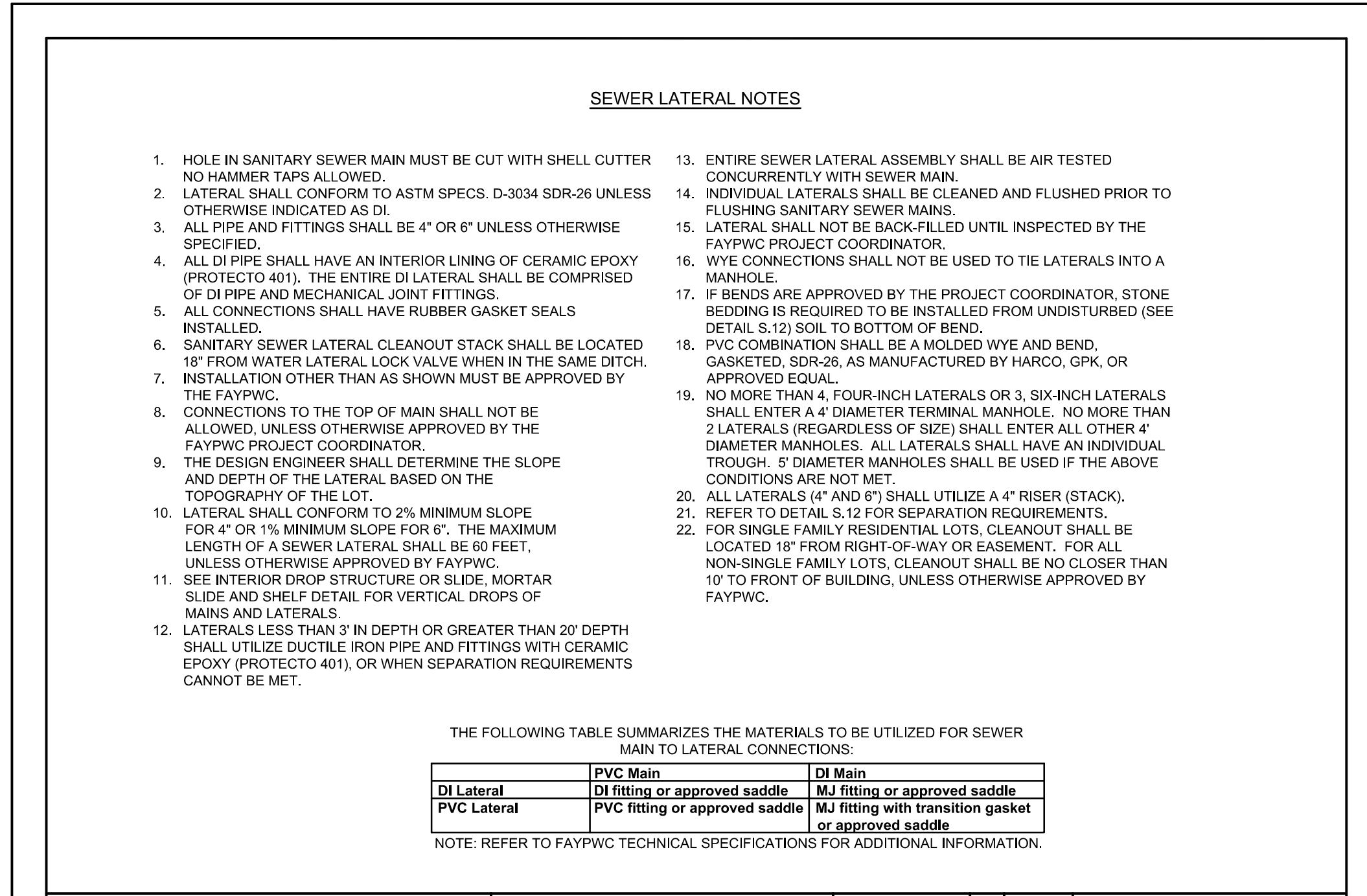
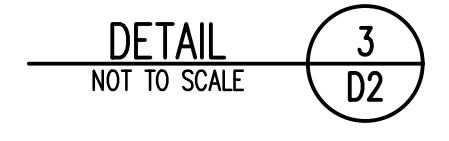
PIPE SLIDE AND SHELF DETAILS N.T.S.		FAYETTEVILLE PUBLIC WORKS COMMISSION FAYETTEVILLE, N.C.		NO.	DATE	REVISION
SHEET NO. 1 OF 1	DWG. NO. S.4 DATE: JAN. 01, 2025	DWG. BY: FAYPWC APPROVED BY: K.A.H.	WATER RESOURCES ENGINEERING DEPARTMENT	1	01/05	ADDED NOTE 8
				2	02/07	REVISED NOTE 8, SLIDE DETAIL, ADDED NOTES 10, 11, 12
				3	01/18	DELETED MORTAR SLIDE, REVISED NOTES

PIPE SIDE AND SHELF DETAILS



SEWER LATERAL (4-INCH AND 6-INCH) N.T.S.		FAYETTEVILLE PUBLIC WORKS COMMISSION FAYETTEVILLE, N.C.		NO.	DATE	REVISION
SHEET NO. 1 OF 1	DWG. NO. S.10 DATE: JAN. 01, 2025	DWG. BY: FAYPWC APPROVED BY: K.A.H.	WATER RESOURCES ENGINEERING DEPARTMENT	2	01/14	ADDED TAILPIECE, NOTES
				3	01/15	REVISED NOTES RE: TAILPIECE
				4	07/18	REVISED NOTE RE: LATERAL DEPTH

SEWER LATERAL



SEWER LATERAL NOTES (4-INCH AND 6-INCH) N.T.S.		FAYETTEVILLE PUBLIC WORKS COMMISSION FAYETTEVILLE, N.C.		NO.	DATE	REVISION
SHEET NO. 1 OF 1	DWG. NO. S.11 DATE: JAN. 01, 2025	DWG. BY: FAYPWC APPROVED BY: K.A.H.	WATER RESOURCES ENGINEERING DEPARTMENT	3	01/13	REVISED NOTES AND ADDED TABLE
				4	01/15	REVISED NOTE 22, TABLE
				5	07/18	REVISED NOTES 6, 9

SEWER LATERAL NOTES

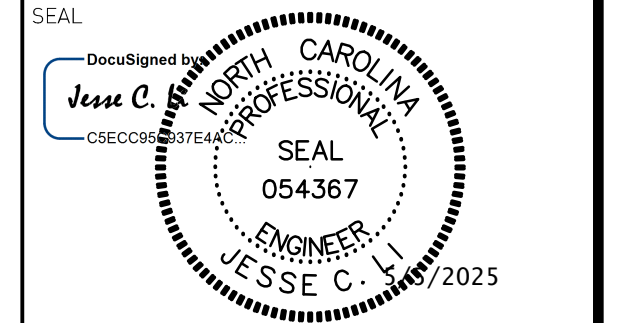
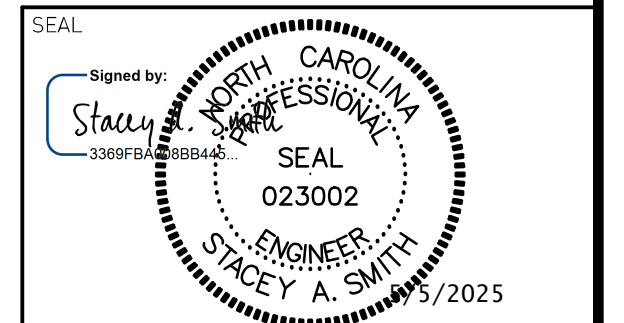


FOR BIDDING
NOT FOR CONSTRUCTION

CUMBERLAND COUNTY
SOLID WASTE
MANAGEMENT DEPARTMENT
FAYETTEVILLE,
NORTH CAROLINA

PREPARED BY: NC LIC. NO. F-1370 (ENGINEERING)
SC COA NO. C01488

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REV.	DATE	DESCRIPTION
1	9/24	UTILITY UPDATES
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PROJECT TITLE:
**ASSEMBLY COURT
SOLID WASTE
CONVENIENCE CENTER**

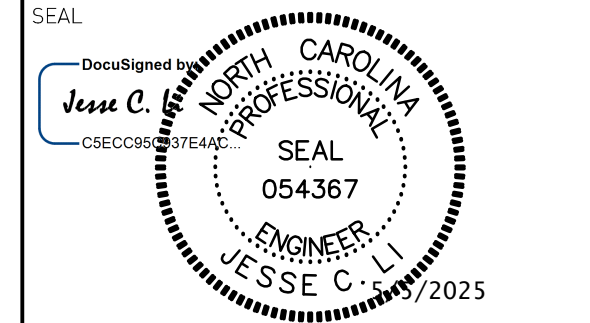
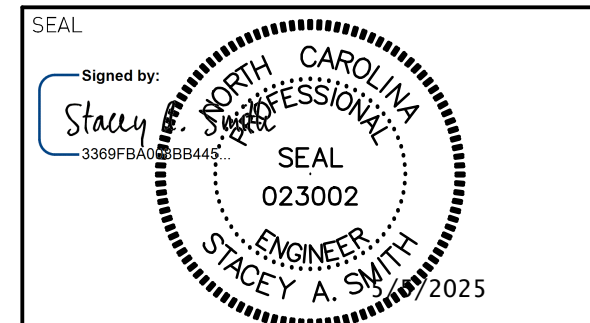
DRAWING TITLE:
**UTILITY DETAILS
(SHEET 1 OF 4)**

DESIGNED	J.C.L.	PROJECT NO.	CUMBERLAND 21-8
DRAWN	J.R.G.	SCALE	AS SHOWN
APPROVED	JCL	DATE	AUG. 2022
FILENAME	CUMBERLAND-D0159		
SHEET NUMBER	7	DRAWING NUMBER	02

CUMBERLAND COUNTY SOLID WASTE MANAGEMENT DEPARTMENT FAYETTEVILLE, NORTH CAROLINA

PREPARED BY: NC LIC. NO. F-1370 (ENGINEERING) SC COA NO. C01488

SMITH+GARDNER ENGINEERS 14 N. Boylan Avenue, Raleigh NC 27603 919.828.0577 1526 Richland St., Columbia SC 29201



- 1. ALL WATER MAINS, LATERALS AND APPURTENANCES SHALL BE INSTALLED AND TESTED IN ACCORDANCE WITH FAYPWC STANDARDS.
2. CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.
3. CONTRACTOR SHALL PROVIDE A MINIMUM OF 48 HOURS NOTICE FOR ALL WATER OUTAGES.
4. CONSTRUCTION STAKING IS REQUIRED FOR ALL FAYPWC WATER AND SEWER UTILITY INSTALLATIONS. CUT SHEETS SIGNED AND SEALED BY A P.E. SHALL BE PROVIDED TO THE CORPORATION, AND TURNING OFF THE CORPORATION AT THE METER BOX, THE ABANDONED SERVICE IS TO BE CUT OR CRIMPED, AND BURIED A MINIMUM OF 3 FEET BELOW GRADE.
5. SEPARATION REQUIREMENTS:
A. LATERAL SEPARATION OF SEWERS AND WATER MAINS: WATER MAINS SHALL BE LAID AT LEAST 10 FEET LATERALLY FROM EXISTING OR PROPOSED SEWER MAIN/LATERAL, UNLESS LOCAL CONDITIONS OR BARRIERS PREVENT A 10-FOOT LATERAL SEPARATION - IN WHICH CASE:
i. THE WATER MAIN IS LAID IN A SEPARATE TRENCH WITH THE ELEVATION OF THE BOTTOM OF THE WATER MAIN AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER MAIN/LATERAL; OR
ii. THE WATER MAIN IS LAID IN THE SAME TRENCH AS THE SEWER MAIN/LATERAL WITH THE WATER MAIN LOCATED AT ONE SIDE ON A BENCH OF UNDISTURBED EARTH AND WITH THE ELEVATION OF THE BOTTOM OF THE WATER MAIN AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER MAIN/LATERAL.
B. CROSSING A WATER MAIN OVER A SEWER: WHENEVER IT IS NECESSARY FOR A WATER MAIN TO CROSS OVER A SEWER MAIN/LATERAL, THE WATER MAIN SHALL BE LAID AT SUCH AN ELEVATION THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST 18-INCHES ABOVE THE TOP OF THE SEWER MAIN/LATERAL.
C. CROSSING WATER MAIN UNDER A SEWER: WHENEVER IT IS NECESSARY FOR A WATER MAIN TO CROSS UNDER A SEWER MAIN/LATERAL, A MINIMUM OF 18-INCHES OF SEPARATION SHALL BE PROVIDED. BOTH THE WATER MAIN AND THE SEWER MAIN/LATERAL SHALL BE CONSTRUCTED OF DUCTILE IRON MATERIAL AND WITH JOINTS EQUIVALENT TO WATER MAIN STANDARDS FOR A DISTANCE OF 10-FEET ON EACH SIDE OF THE POINT OF CROSSING. A SECTION OF WATER MAIN PIPE SHALL BE CENTERED AT THE POINT OF CROSSING.

- D. CROSSING STORM DRAINAGE LINES: A MINIMUM OF 12-INCHES OF VERTICAL CLEARANCE SHALL BE MAINTAINED BETWEEN A WATER LINE CROSSING OVER A STORM DRAINAGE LINE UNLESS DUCTILE IRON PIPE IS USED. IN ADDITION, THREE AND A HALF (3.5) FEET OF COVER MUST BE MAINTAINED OVER THE WATER MAIN OR IT SHALL BE DUCTILE IRON. IF DUCTILE IRON PIPE IS USED, THEN TWO AN A HALF (2.5) FEET OF COVER MUST BE MAINTAINED OVER THE WATER MAIN AND A MINIMUM OF 12-INCHES OF VERTICAL CLEARANCE SHALL BE MAINTAINED BETWEEN THE WATER MAIN AND THE STORM DRAINAGE LINE WHERE A WATER MAIN CROSSES UNDER A STORM DRAINAGE LINE. THE MINIMUM OF TWELVE (12) INCHES OF VERTICAL SEPARATION SHALL BE MAINTAINED AND THE WATER MAIN SHALL BE DUCTILE IRON FOR A DISTANCE OF 10-FEET ON EACH SIDE OF THE CROSSING.
E. WATER OUTAGES: THE CONTRACTOR SHALL SCHEDULE A COORDINATION MEETING WITH THE FAYPWC PROJECT COORDINATOR AND PROJECT ENGINEER A MINIMUM OF THREE (3) WORKING DAYS PRIOR TO ANY PLANNED WATER OUTAGE. THE COORDINATION MEETING SHALL BE CONDUCTED PRIOR TO ANY NOTICES BEING ISSUED. ADDITIONALLY, THE CONTRACTOR SHALL LOCATE VERTICALLY AND HORIZONTALLY ANY UTILITIES WITHIN THE WORK AREA IN ACCORDANCE WITH THESE CONTRACT DOCUMENTS. THE LOCATIONS OF ALL UTILITIES WITHIN THE WORK AREA SHALL BE DETERMINED PRIOR TO THE COORDINATION MEETING. ANY CONFLICTS WITH THE PENDING WORK AND THE EXISTING UTILITIES SHALL BE IDENTIFIED AND A PLAN FOR RESOLVING ANY CONFLICTS SHALL BE PRESENTED. THE PURPOSE OF THIS COORDINATION MEETING IS TO ENSURE THAT THE CONTRACTOR HAS A GOOD UNDERSTANDING OF THE REQUIREMENTS RELATED TO THE PENDING OUTAGE, VERIFY THAT THERE ARE NO UTILITY CONFLICTS THAT WILL PREVENT THE WORK FROM BEING COMPLETED, ALL EQUIPMENT IS IN GOOD WORKING ORDER, ALL EQUIPMENT IS FUNCTIONAL, ALL MATERIALS ARE ON SITE, ALL NECESSARY TOOLS ARE ON SITE, DISCUSS ANY NECESSARY CONTINGENCY PLANS, AND ANY OTHER ITEMS NECESSARY TO ENSURE THAT THE FAYETTEVILLE PUBLIC WORKS COMMISSION HAS CONFIDENCE THAT THE WORK CAN BE ACCOMPLISHED WITHIN THE GIVEN TIME PERIOD. SHOULD, FOR ANY REASON, THE FAYETTEVILLE PUBLIC WORKS COMMISSION DEEM THAT THE CONTRACTOR IS NOT PREPARED FOR THE PROPOSED OUTAGE, THE OUTAGE NOTIFICATIONS WILL NOT BE DISTRIBUTED AND THE OUTAGE SHALL BE POSTPONED A MINIMUM OF TWO (2) WEEKS. THE FAYETTEVILLE PUBLIC WORKS COMMISSION WILL PROVIDE WRITTEN NOTICE TO THE CONTRACTOR OF THIS DECISION. NO ADDITIONAL CONTRACT TIME WILL BE GRANTED FOR THIS DELAY. SHOULD THE CONTRACT TIME EXPIRE WITHIN THAT TWO (2) WEEK PERIOD, THE FAYETTEVILLE PUBLIC WORKS COMMISSION RESERVES THE RIGHT TO ASSESS LIQUIDATED DAMAGES, AS OUTLINED IN THESE CONTRACT DOCUMENTS.

ONCE THE WATER OUTAGE NOTIFICATIONS HAVE BEEN ISSUED, A FOLLOW-UP COORDINATION MEETING WITH THE FAYPWC PROJECT COORDINATOR AND PROJECT ENGINEER SHALL BE HELD A MINIMUM OF 24 HOURS PRIOR TO THE SCHEDULED PURPOSE OF THIS MEETING IS TO VERIFY THAT THE CONTRACTOR IS PREPARED TO PROCEED WITH THE OUTAGE, AND THAT ALL EQUIPMENT, MATERIALS, TOOLS, AND ALL OTHER INCIDENTALS ARE ON THE PROJECT SITE AND FUNCTIONING. IF FOR ANY REASON THE FAYETTEVILLE PUBLIC WORKS COMMISSION DEEMS THAT THE CONTRACTOR IS NOT PREPARED, THE OUTAGE SHALL BE POSTPONED AND ALL CUSTOMERS IMMEDIATELY NOTIFIED OF THE CANCELLATION. THE OUTAGE SHALL BE POSTPONED A MINIMUM OF TWO (2) WEEKS. NO ADDITIONAL CONTRACT TIME WILL BE GRANTED FOR THIS DELAY. SHOULD THE CONTRACT TIME EXPIRE WITHIN THAT TWO (2) WEEK PERIOD, THE FAYETTEVILLE PUBLIC WORKS COMMISSION RESERVES THE RIGHT TO ASSESS LIQUIDATED DAMAGES, AS OUTLINED IN THESE CONTRACT DOCUMENTS.

THE CONTRACTOR SHALL COMPLETE THE REQUIRED WORK AND RESTORE WATER SERVICE WITHIN THE GIVEN TIME PERIOD FOR THE OUTAGE. IF THE FAYPWC PROJECT COORDINATOR DETERMINES THAT THE CONTRACTOR WILL NOT RESTORE WATER SERVICE WITHIN THE APPROVED TIMEFRAME, THE FAYPWC PROJECT COORDINATOR WILL DIRECT THE CONTRACTOR ON HOW TO RESTORE WATER SERVICE. THE CONTRACTOR SHALL ADHERE TO ALL INSTRUCTIONS GIVEN BY THE FAYPWC PROJECT COORDINATOR. SHOULD THE CONTRACTOR FAIL TO COMPLETE THE WORK WITHIN THE ALLOTTED TIME, THE FAYETTEVILLE PUBLIC WORKS COMMISSION SHALL ASSESS A PENALTY OF \$500 PER 15-MINUTE INTERVAL OR ANY PORTION THEREOF UNTIL WATER SERVICE IS RESTORED. THIS PENALTY WILL BE DEDUCTED FROM THE CONTRACTOR'S PAY APPLICATION OR BE BILLED DIRECTLY TO THE CONTRACTOR. THE PENALTY MAY BE WAIVED FOR CIRCUMSTANCES BEYOND THE CONTRACTOR'S CONTROL, AS DETERMINED BY THE FAYETTEVILLE PUBLIC WORKS COMMISSION. THE FAYPWC PROJECT COORDINATOR AND/OR PROJECT ENGINEER RESERVE THE RIGHT TO CANCEL OR POSTPONE THE OUTAGE AT ANY GIVEN TIME, IF DEEMED NECESSARY.

Table with 3 columns: SHEET NO., DWG. NO., DATE. Includes revision table with 3 rows and 3 columns: NO., DATE, REVISION.

Table with 3 columns: SHEET NO., DWG. NO., DATE. Includes revision table with 3 rows and 3 columns: NO., DATE, REVISION.

WATER UTILITY NOTES DETAIL 1 NOT TO SCALE D4

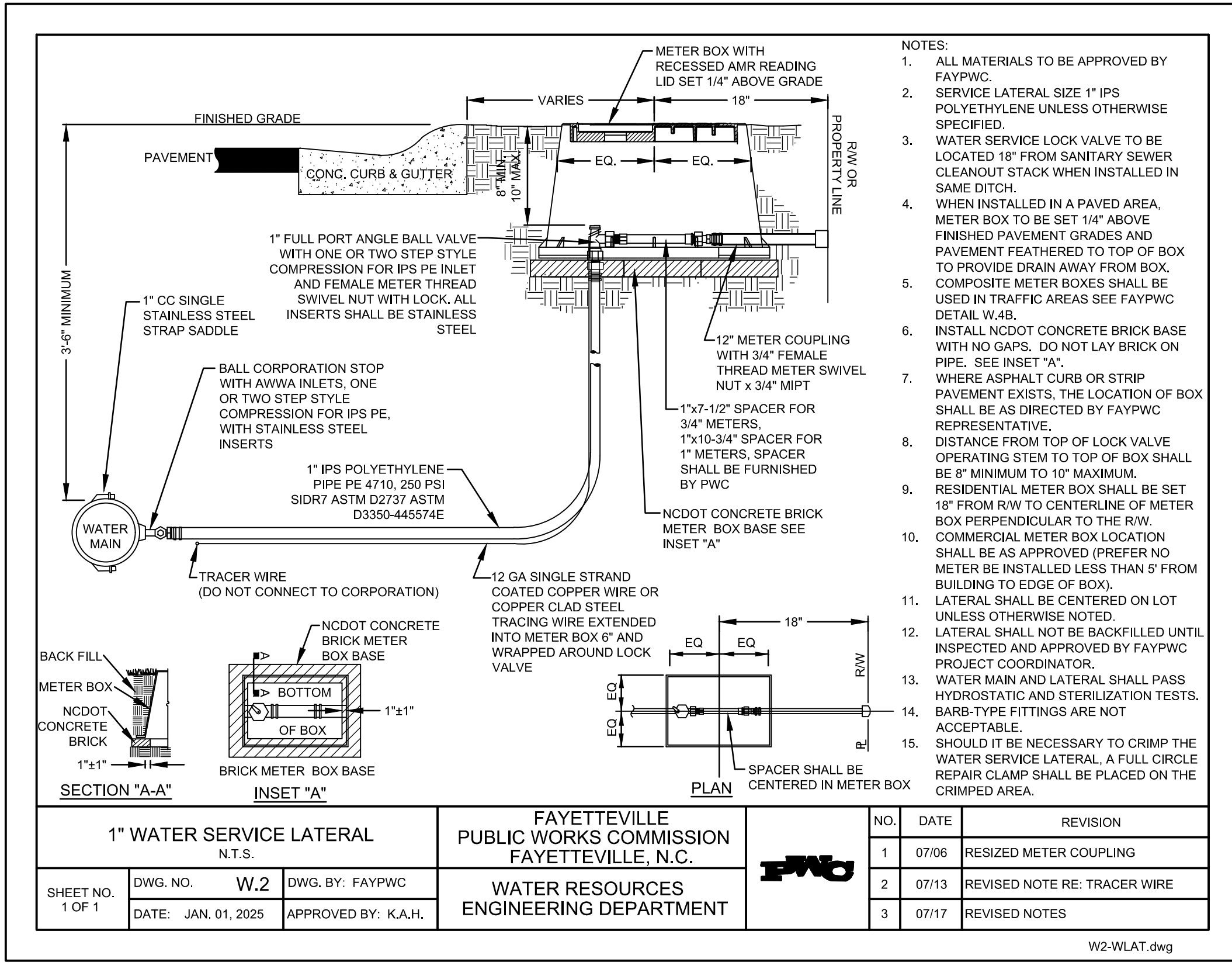


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WATER SERVICE LATERAL DETAIL 2 NOT TO SCALE D4

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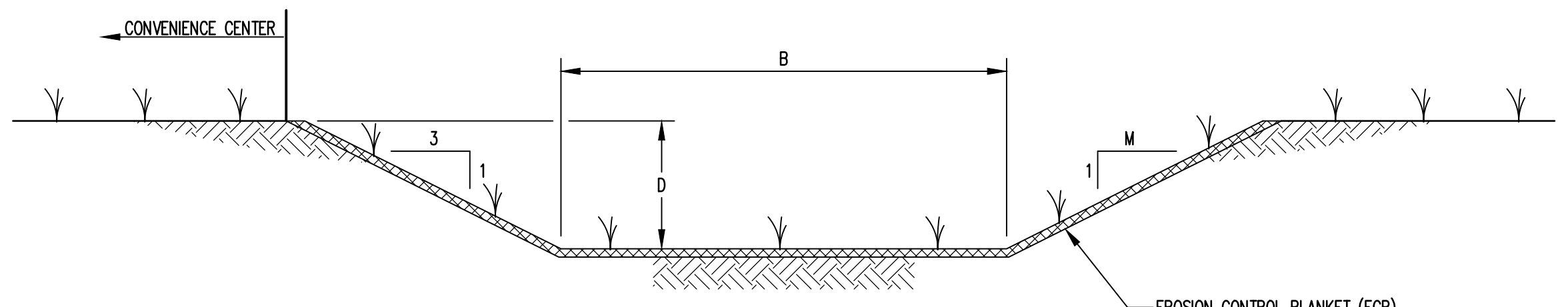
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PROJECT TITLE: ASSEMBLY COURT SOLID WASTE CONVENIENCE CENTER

DRAWING TITLE: UTILITY DETAILS (SHEET 3 OF 4)

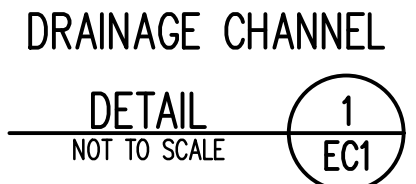
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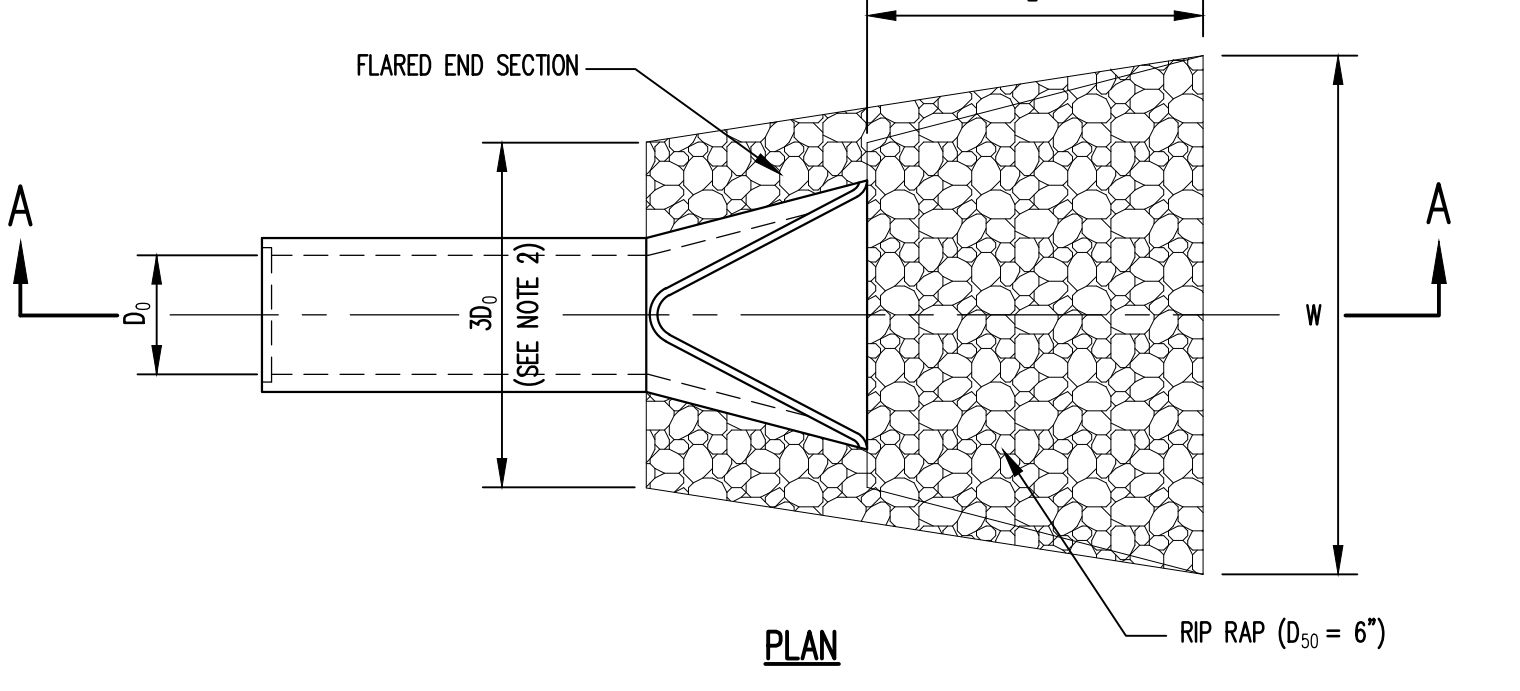
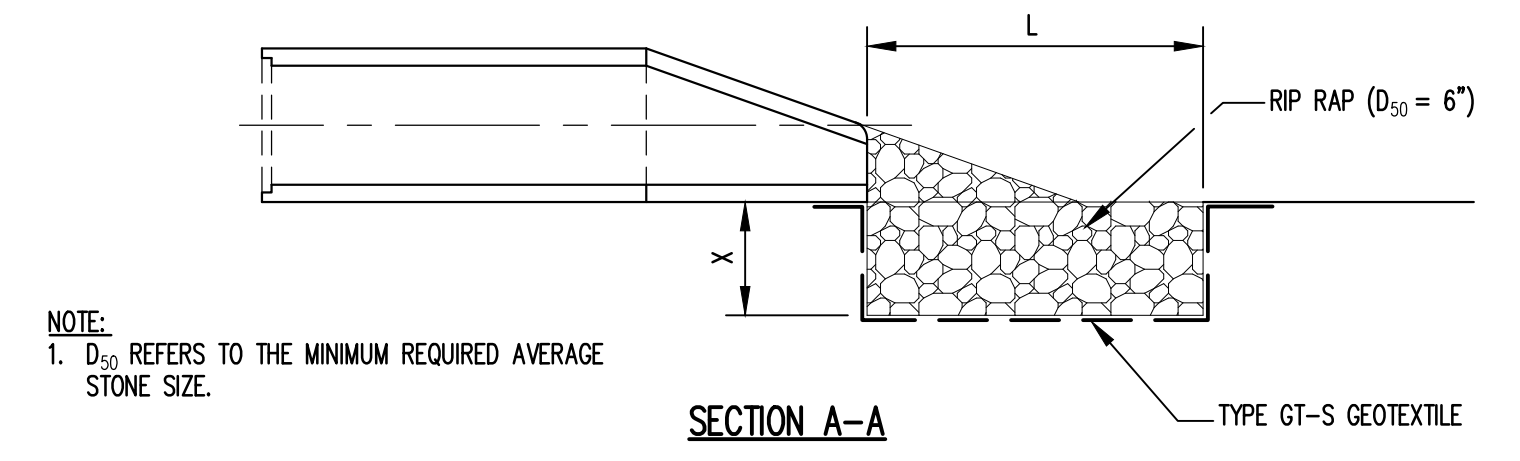
DRAINAGE CHANNEL SCHEDULE				
DRAINAGE CHANNEL NO.	B	M	D	LINING
DC-1 & DC-2	10	2	1.5	GRASS
DC-3	3	2	1	GRASS

GRASS LINED CHANNELS



GENERAL EROSION AND SEDIMENTATION CONTROL NOTES

- ALL EROSION AND SEDIMENTATION CONTROL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE NORTH CAROLINA EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL AS WELL AS APPLICABLE REGULATIONS.
- AN EROSION AND SEDIMENT CONTROL (E&S) PERMIT AND A CERTIFICATE OF COVERAGE (COC) MUST BE OBTAINED BEFORE ANY LAND DISTURBING ACTIVITIES OCCUR.
- EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE ESTABLISHED PRIOR TO, OR AS SOON AS PRACTICAL THEREAFTER, ANY LAND CLEARING OR CONSTRUCTION ACTIVITIES MAY BEGIN. THE CONTRACTOR SHALL FOLLOW THE FOLLOWING SCHEDULE:
 - FLAG THE CLEARING LIMITS AND IDENTIFY ANY TREE PROTECTION AREAS WITH THE OWNER.
 - INSTALL TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT (WHERE NECESSARY).
 - CLEAR THE VEGETATED PORTION OF THE SITE AND INSTALL SILT AND STONE FILTER FENCING (WHERE REQUIRED) PRIOR TO STRIPPING/GRUBBING.
 - ONLY STRIP/GRUB AREAS REQUIRED FOR INSTALLATION OF STRUCTURES, BERMS AND DRAINAGE CHANNELS. OTHER AREAS WILL BE STRIPPED/GRUBBED ONCE SEDIMENT BASINS ARE COMPLETED.
 - COMPLETE INSTALLATION OF SEDIMENT BASINS.
 - PERFORM EARTHWORK AS REQUIRED FOR CONSTRUCTION. INSTALL DRAINAGE AND EROSION AND SEDIMENTATION CONTROL MEASURES AS AREAS ARE BROUGHT TO GRADE.
 - PERFORM FINE GRADING AND ESTABLISH PERMANENT VEGETATION ON COMPLETED AREAS.
 - AFTER STABILIZATION, REMOVE SILT FENCING AND OTHER TEMPORARY MEASURES AS DIRECTED BY THE OWNER AND INSTALL PERMANENT VEGETATION ON THE DISTURBED AREAS.
- ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CONSTRUCTED ACCORDING TO THE CONTRACT DRAWINGS AND SPECIFICATIONS.
- SELF-INSPECTIONS FOR EROSION AND SEDIMENTATION CONTROL MEASURES ARE TO BE PERFORMED AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF EVERY RAIN EVENT OF GREATER THAN 1 INCH. ANY NEEDED REPAIRS SHALL BE MADE IMMEDIATELY TO MAINTAIN MEASURES AS DESIGNED. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE MAINTAINED AS SPECIFIED IN THE CONSTRUCTION DETAILS ON THIS PLAN. MAINTENANCE SHALL INCLUDE, BUT NOT BE LIMITED TO:
 - THE REMOVAL AND SATISFACTORY DISPOSAL OF TRAPPED OR DEPOSITED SEDIMENTS FROM BASINS, TRAPS, BARRIERS, FILTERS, AND/OR DRAINAGE FEATURES/DEVICES.
 - REPLACEMENT OF FILTER FABRICS USED FOR SILT FENCES UPON LOSS OF EFFICIENCY; AND
 - REPLACEMENT OF ANY OTHER COMPONENTS WHICH ARE DAMAGED OR CANNOT SERVE THE INTENDED USE.
- SOIL STABILIZATION SHALL BE ACHIEVED ON ANY AREA OF THE SITE WHERE LAND-DISTURBING ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED ACCORDING TO THE FOLLOWING SCHEDULE:
 - ALL PERIMETER DICES, SWALES, DITCHES, PERIMETER SLOPES, AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3H:1V) SHALL BE PROVIDED TEMPORARY OR PERMANENT STABILIZATION WITH GROUND COVER AS SOON AS PRACTICABLE BUT IN ANY EVENT WITHIN 7 CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACTIVITY.
 - ALL OTHER DISTURBED AREAS SHALL BE PROVIDED TEMPORARY OR PERMANENT STABILIZATION WITH GROUND COVER AS SOON AS PRACTICABLE BUT IN ANY EVENT WITHIN 14 CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACTIVITY.
 - BASINS, TRAPS, CHANNELS, AND DIVERSIONS SHALL BE LINED WITH ANCHORED ROLLED EROSION PRODUCTS OR RIP RAP AND/OR VEGETATED UPON CONSTRUCTION.
 - PERMANENT GROUND COVER FOR ALL DISTURBED AREAS SHALL BE ESTABLISHED WITHIN 15 WORKING DAYS OR 90 CALENDAR DAYS (WHICHEVER IS SHORTER) FOLLOWING COMPLETION OF CONSTRUCTION OR DEVELOPMENT.
- A COPY OF THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN, THE CERTIFICATE OF APPROVAL, AND LETTER OF APPROVAL ARE TO BE KEPT ON SITE (BY OWNER).
- THE NPDES PERMIT (WITH A MINIMUM OF 30 DAYS OF SELF-INSPECTION REPORTS) ARE TO BE KEPT ON SITE AND A RAIN GAUGE IS TO BE INSTALLED AND MAINTAINED FOR RECORD KEEPING UNTIL THE PROJECT IS CLOSED OUT BY THE LAND QUALITY SECTION REGIONAL OFFICE.
- UPON PROJECT COMPLETION, THE PERMITTEE SHALL CONTACT DEMLR TO CLOSE OUT THE EROSION AND SEDIMENTATION CONTROL PLAN.



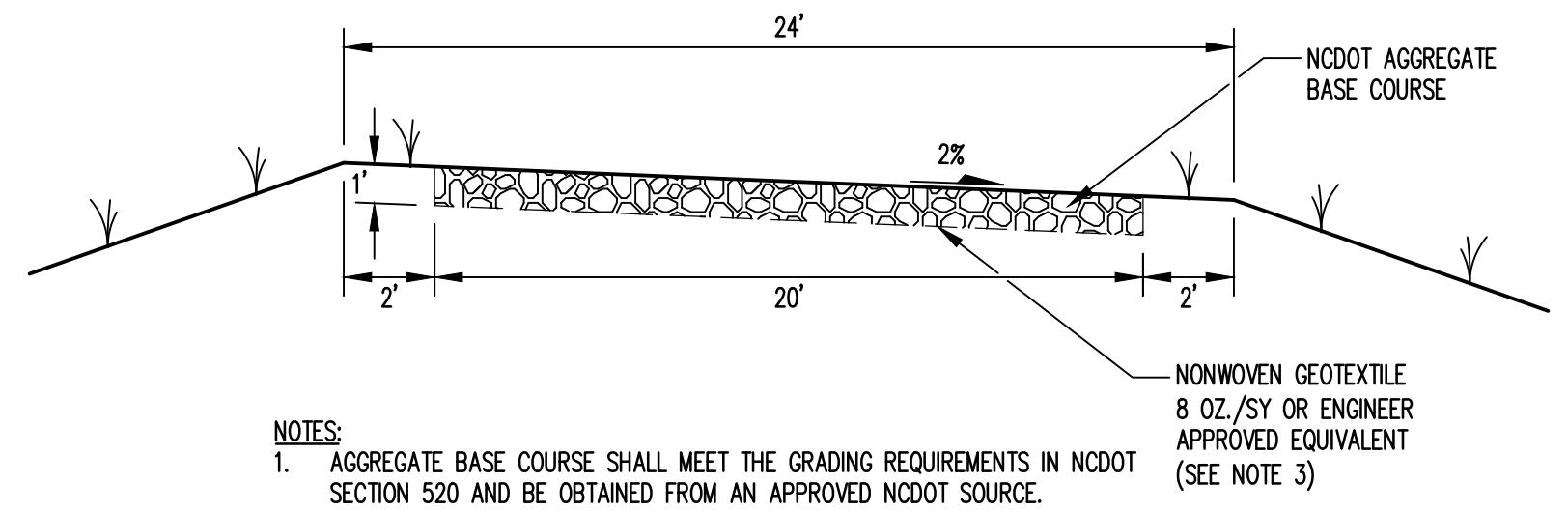
RIP RAP OUTLET PROTECTION



RIP RAP OUTLET PROTECTION SCHEDULE					
PIPE	D ₀ (FT)	L (FT)	W (FT)	D ₅₀ (FT)	X (FT)
C-1	1	6	7	0.5	2.0

GENERAL NOTES

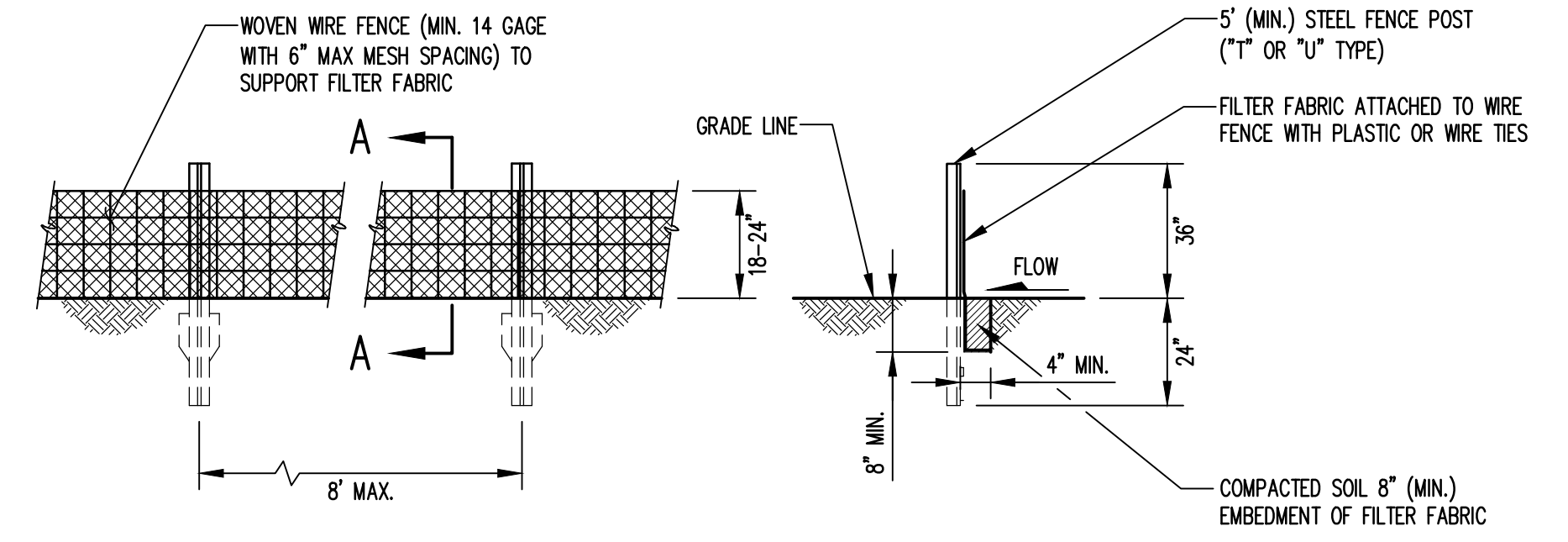
- THE SITE IS REQUIRED TO OBTAIN A NPDES CONSTRUCTION STORMWATER CERTIFICATE OF COVERAGE (COC) PRIOR TO INITIATING THE PROJECT.
- THE SITE IS REQUIRED TO FILE A NOTICE OF TERMINATION FOR THE COC AFTER THE PROJECT IS FINISHED.



NOTES

- AGGREGATE BASE COURSE SHALL MEET THE GRADING REQUIREMENTS IN NCDOT SECTION 520 AND BE OBTAINED FROM AN APPROVED NCDOT SOURCE.
- AGGREGATE SHALL BE PLACED AND COMPACTED IN 8-INCH THICK (N-PLACE) LIFTS TO 100 PERCENT ITS STANDARD PROCTOR MAXIMUM DRY DENSITY.
- GEOTEXTILE SHALL HAVE A MINIMUM GRAB TENSILE STRENGTH OF 180 LBS, MINIMUM PUNCTURE RESISTANCE OF 75 LBS, TRAPEZOIDAL TEAR OF 75 LBS, AND AOS OF LESS THAN 0.6 MM.

ALL-WEATHER ACCESS ROAD

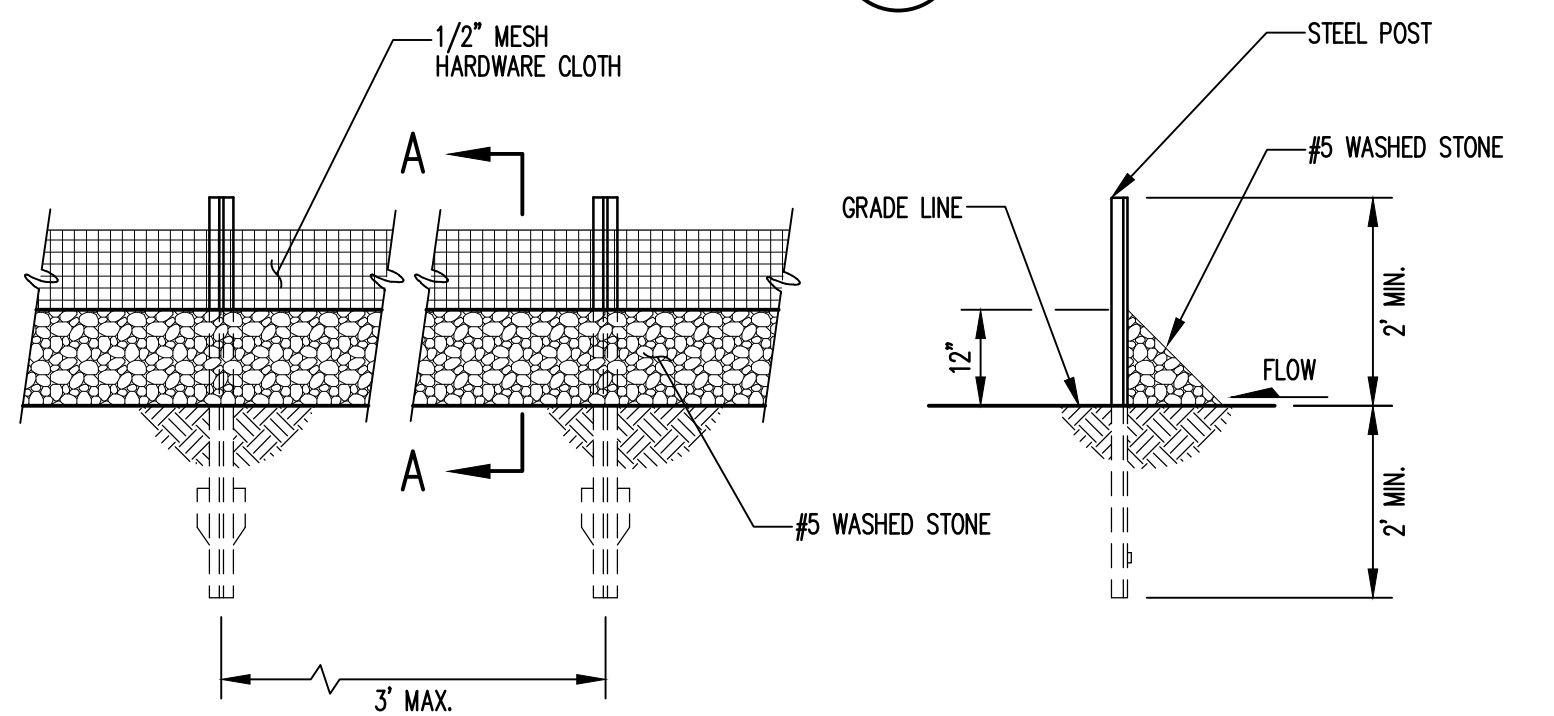


ELEVATION

SECTION A-A

- NOTE:**
- PLACE 10' MIN. LENGTH OF STONE FILTER FENCE AT LOW POINTS ALONG SILT FENCE AND WHERE DIRECTED BY THE ENGINEER TO RELEASE WATER. SEE DETAIL 5 EC1.

SILT FENCE



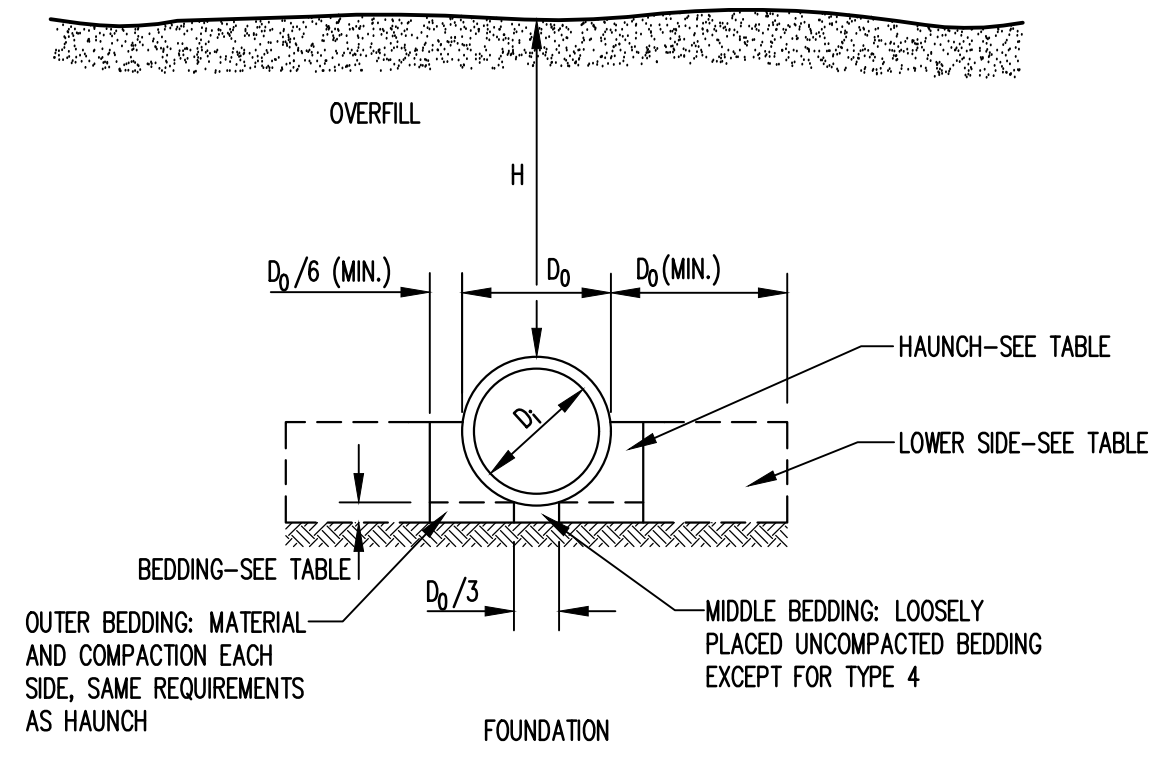
ELEVATION

SECTION A-A

STONE FILTER FENCE



CULVERT SCHEDULE						
NO.	SIZE	LENGTH (FT)	INV. IN (FEET)	INV. OUT (FEET)	SLOPE (%)	REMARKS
C-1	12" RCP (CLASS III)	45	97.3	97.0	5.6	



CONCRETE PIPE INSTALLATION



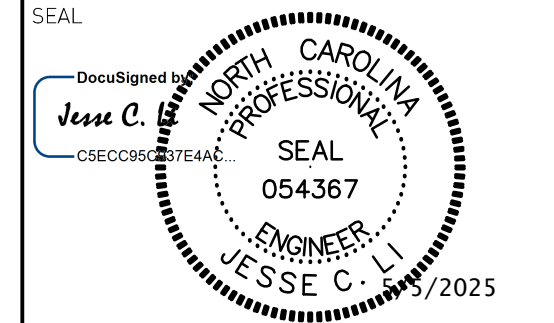
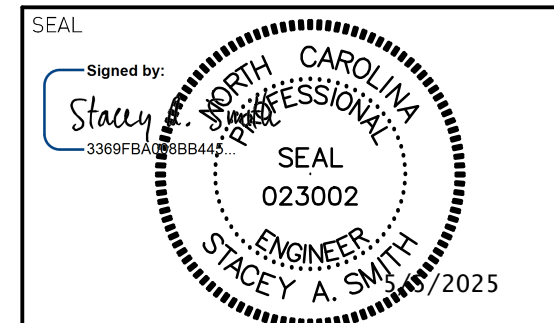
STANDARD EMBANKMENT INSTALLATION SOILS AND MINIMUM COMPACTION REQUIREMENTS			
INSTALLATION TYPE	BEDDING THICKNESS	HAUNCH AND OUTER BEDDING	LOWER SIDE
TYPE 1	D ₀ /24"(600mm) MINIMUM, NOT LESS THAN 3"(75mm). IF ROCK FOUNDATION, USE D ₀ /12"(300mm) MINIMUM, NOT LESS THAN 6"(150mm).	95% SW, SP, GW, GP	90% SW, SP, GW, GP; 95% ML, SM, GM OR GC, SC WITH <20% PASSING NO.200 SIEVE; OR 100% CL, MH, SC, GC, CH.
TYPE 2	D ₀ /24"(600mm) MINIMUM, NOT LESS THAN 3"(75mm). IF ROCK FOUNDATION, USE D ₀ /12"(300mm) MINIMUM, NOT LESS THAN 6"(150mm).	90% SW, SP, GW, GP; OR 95% ML, SM, GM OR GC, SC WITH <20% PASSING NO.200 SIEVE	85% SW, SP, GW, GP; 90% ML, SM, GM OR GC, SC WITH <20% PASSING NO.200 SIEVE; OR 95% CL, MH, SC, GC, CH.
TYPE 3	D ₀ /24"(600mm) MINIMUM, NOT LESS THAN 3"(75mm). IF ROCK FOUNDATION, USE D ₀ /12"(300mm) MINIMUM, NOT LESS THAN 6"(150mm).	85% SW, SP, GW, GP; 90% ML, SM, GM OR GC, SC WITH <20% PASSING NO.200 SIEVE; OR 95% CL, MH, SC, GC, CH	85% SW, SP, GW, GP; 90% ML, SM, GM OR GC, SC WITH <20% PASSING NO.200 SIEVE; OR 95% CL, MH, SC, GC, CH.
TYPE 4	NO BEDDING REQUIRED, EXCEPT IF ROCK FOUNDATION, USE D ₀ /12"(300mm) MINIMUM, NOT LESS THAN 6"(150mm).	NO COMPACTION REQUIRED, EXCEPT IF CL, MH, SC, GC, CH USE 85%	NO COMPACTION REQUIRED, EXCEPT IF CL, MH, SC, GC, CH USE 85%

NOTES:

- COMPACTION AND SOIL SYMBOLS (95% SW) REFER TO SW SOIL MATERIAL (USCS CLASSIFICATION) WITH A MINIMUM STANDARD PROCTOR COMPACTION (ASTM D 698) OF 95%.
- SOIL IN THE OUTER BEDDING, HAUNCH, AND LOWER SIDE ZONES, EXCEPT WITHIN D₀/3 FROM THE PIPE SPRINGLINE, SHALL BE COMPACTED TO AT LEAST THE SAME COMPACTION AS THE MAJORITY OF THE SOIL IN THE OVERFILL ZONE.
- SUBTRENCHES:
 - A SUBTRENCH IS DEFINED AS A TRENCH WITH ITS TOP BELOW FINISHED GRADE BY MORE THAN 0.1H OR, FOR ROADWAYS, ITS TOP IS AT AN ELEVATION LOWER THAN 1'(0.3m) BELOW THE BOTTOM OF THE PAVEMENT BASE MATERIAL.
 - THE MINIMUM WIDTH OF A SUBTRENCH SHALL BE 1.33 D₀ OR WIDER IF REQUIRED FOR ADEQUATE SPACE TO ATTAIN THE SPECIFIED COMPACTION IN THE HAUNCH AND BEDDING ZONES.
 - FOR SUBTRENCHES WITH WALLS OF NATURAL SOIL, ANY PORTION OF THE LOWER SIDE ZONE IN THE SUBTRENCH WALL SHALL BE AT LEAST AS FIRM AS AN EQUIVALENT SOIL PLACED TO THE COMPACTION REQUIREMENTS SPECIFIED FOR THE LOWER SIDE ZONE AND AS FIRM AS THE MAJORITY IF THE SOIL IN THE OVERFILL ZONE, OR SHALL BE REMOVED AND REPLACED WITH SOIL COMPACTED TO THE SPECIFIED LEVEL.

PREPARED FOR:
CUMBERLAND COUNTY SOLID WASTE MANAGEMENT DEPARTMENT
FAYETTEVILLE, NORTH CAROLINA

PREPARED BY:
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REV.	DATE	DESCRIPTION
2	3/25	RE-BID
3	5/25	RE-BID

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PROJECT TITLE:
ASSEMBLY COURT SOLID WASTE CONVENIENCE CENTER

DRAWING TITLE:
EROSION & SEDIMENTATION CONTROL DETAILS (SHEET 1 OF 2)

DESIGNED	PROJECT NO.
J.C.L.	CUMBERLAND 21-8
DRAWN	SCALE
J.B.G.	AS SHOWN
APPROVED	DATE
JCL	AUG. 2022
FILENAME	DRAWING NUMBER
CUMBERLAND-D0159	
SHEET NUMBER	DRAWING NUMBER
11	EC1

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