



ADVERTISEMENT FOR BIDS

City of Shelby
300 S Washington St
Shelby, NC 28150

Sealed bids for the project entitled “S Morgan Street Storm Drain Improvement Project” will be received by the City of Shelby on July 14, 2026, at 1:00pm local time at the following location:

824 W Grover Street
Shelby, NC 28150

The proposed work is generally described as follows:

Removal of 3 Drop inlets, and approximately 360 linear feet of corrugated metal pipe, replacement of existing storm drainage structures and culverts. Approximately 40 linear feet of 18-inch reinforced concrete storm drain pipe, 50 linear feet of 24-inch reinforced concrete storm drain pipe, one (1) catch basin, storm drain system tie-ins, grading, sidewalk repair, erosion control, site stabilization, and all associated appurtenances required for successful project completion, as described in the Specifications and shown on the project drawings.

All bidders must be registered with Odom Engineering; copies of the Contract Documents may be obtained through:

Odom Engineering
196 Oak Street
Forest City NC, 28043
Phone: 828-247-4495
Email: malarie@odomengineering.com

Electronic documents will be provided; however, there will be a non-refundable fee of \$100.00 for each printed set of documents obtained (payable to Odom Engineering). The Contract Documents may also be examined at Odom Engineering PLLC in Forest City NC.

The Owner(s) will in no way be liable for any costs incurred by any bidder in preparation of its Bid.

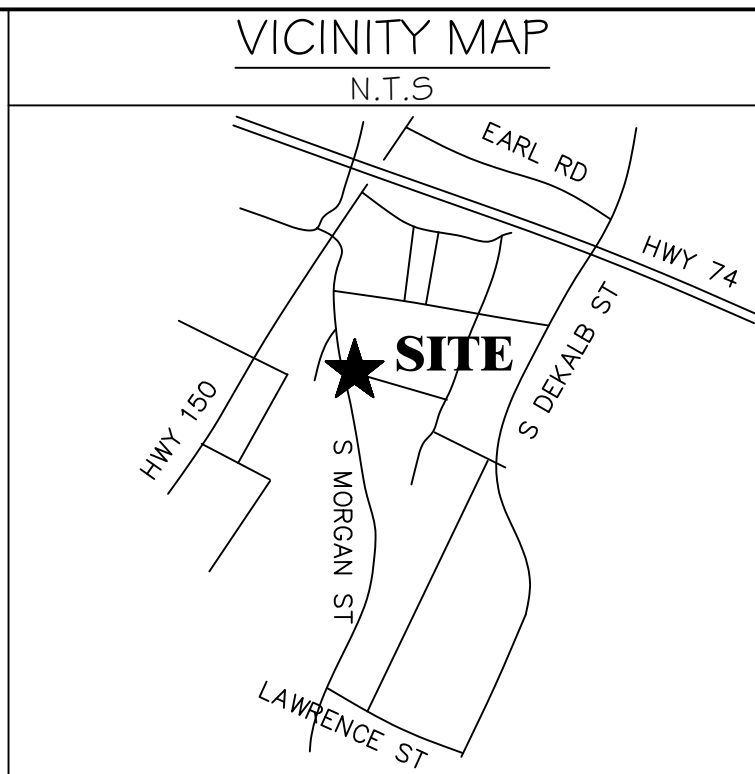
See plan details below:

STORM DRAIN PLANS FOR

CITY OF SHELBY - S MORGAN STREET

CITY OF SHELBY CLEVELAND COUNTY, NC

DEVELOPER:
CITY OF SHELBY
820 GROVER ST
CLEVELAND COUNTY, NC 28151
704-484-6846



- GENERAL NOTES:
- A MANDATORY PRE-CONSTRUCTION MEETING SHALL OCCUR BEFORE ANY CONSTRUCTION BEGINS. A REPRESENTATIVE FROM THE CONTRACTOR'S OFFICE, ODOM ENGINEERING, AND TOWN OF BOILING SPRINGS.
 - CONTRACTOR TO CALL TOWN OF RUTHERFORDTON AT LEAST 48 HOURS PRIOR TO LAND DISTURBING ACTIVITY IS TO BEGIN.
 - CONTRACTOR IS TO DO SELF-INSPECTIONS PER '15A NCAC 04B .0131 SELF INSPECTIONS'. SEE DETAIL SHEET.
 - GRADED SLOPES AND FILLS SHALL BE PROTECTED WITH A ROLLED EROSION CONTROL PRODUCT IF COMPLETED OUTSIDE THE OPTIMUM GERMINATION SEASONS, WHEN UNFAVORABLE WEATHER CONDITIONS PREVENT ESTABLISHMENT OF VEGETATIVE COVER.
 - CONTRACTOR TO CONTACT ENGINEER IMMEDIATELY UPON DISCOVERING ANY DISCREPANCIES IN THE FIELD NOT SHOWN ON PLANS.
 - ANY ACTIONS OR COST INCREASE ABOVE AND BEYOND CONTRACT WITH OWNER/DEVELOPER SHALL BE APPROVED BY ENGINEER. ANY ADDITIONAL WORK OR COST INCREASE COMPLETED BY CONTRACTOR WITHOUT SAID WRITTEN APPROVAL FROM ENGINEER, SHALL BECOME CONTRACTORS FINANCIAL RESPONSIBILITY AND NOT THE OWNER/DEVELOPER.

JOB NUMBER:		26030					
DATE	BY						

15A NCAC 04B .0131 SELF-INSPECTIONS WHERE INSPECTIONS ARE REQUIRED BY G.S. 113A--54.1(E), THE FOLLOWING APPLY:

(1) THE PERSON WHO PERFORMS THE INSPECTION SHALL MAKE A RECORD OF THE SITE INSPECTION BY DOCUMENTING THE FOLLOWING ITEMS:

(A) ALL OF THE EROSION AND SEDIMENTATION CONTROL MEASURES, PRACTICES AND DEVICES, AS CALLED FOR IN A CONSTRUCTION SEQUENCE CONSISTENT WITH THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN, INCLUDING BUT NOT LIMITED TO SEDIMENTATION CONTROL BASINS, SEDIMENTATION TRAPS, SEDIMENTATION PONDS, ROCK DAMS, TEMPORARY DIVERSIONS, TEMPORARY SLOPE DRAINS, ROCK CHECK DAMS, SEDIMENT FENCE OR BARRIERS, ALL FORMS OF INLET PROTECTION, STORM DRAINAGE FACILITIES, ENERGY DISSIPATORS, AND STABILIZATION METHODS OF OPEN CHANNELS, HAVE INITIALLY BEEN INSTALLED AND DO NOT SIGNIFICANTLY DEVIATE AS DEFINED IN SUB-ITEM (1)(E) OF THIS RULE) FROM THE LOCATIONS, DIMENSIONS AND RELATIVE ELEVATIONS SHOWN ON THE APPROVED EROSION AND SEDIMENTATION PLAN. SUCH DOCUMENTATION SHALL BE ACCOMPLISHED BY INITIATING AND DATING EACH MEASURE OR PRACTICE SHOWN ON A COPY OF THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN OR BY COMPLETING, DATING AND SIGNING AN INSPECTION REPORT THAT LISTS EACH MEASURE, PRACTICE OR DEVICE SHOWN ON THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN. THIS DOCUMENTATION IS REQUIRED ONLY UPON THE INITIAL INSTALLATION OF THE EROSION AND SEDIMENTATION CONTROL MEASURES, PRACTICES AND DEVICES AS SET FORTH BY THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN OR IF THE MEASURES, PRACTICES AND DEVICES ARE MODIFIED AFTER INITIAL INSTALLATION;

(B) THE COMPLETION OF ANY PHASE OF GRADING FOR ALL GRADED SLOPES AND FILLS SHOWN ON THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN, SPECIFICALLY NOTING THE LOCATION AND CONDITION OF THE GRADED SLOPES AND FILLS. SUCH DOCUMENTATION SHALL BE ACCOMPLISHED BY INITIATING AND DATING A COPY OF THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN OR BY COMPLETING, DATING AND SIGNING AN INSPECTION REPORT;

(C) THE LOCATION OF TEMPORARY OR PERMANENT GROUND COVER, AND THAT THE INSTALLATION OF THE GROUND COVER DOES NOT SIGNIFICANTLY DEVIATE (AS DEFINED IN SUB-ITEM (1)(E) OF THIS RULE) FROM THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN. SUCH DOCUMENTATION SHALL BE ACCOMPLISHED BY INITIATING AND DATING A COPY OF THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN OR BY COMPLETING, DATING AND SIGNING AN INSPECTION REPORT;

(D) THAT MAINTENANCE AND REPAIR REQUIREMENTS FOR ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENTATION CONTROL MEASURES, PRACTICES AND DEVICES HAVE BEEN PERFORMED. SUCH DOCUMENTATION SHALL BE ACCOMPLISHED BY COMPLETING, DATING AND SIGNING AN INSPECTION REPORT (THE GENERAL STORM WATER PERMIT MONITORING FORM MAY BE USED TO VERIFY THE MAINTENANCE AND REPAIR REQUIREMENTS); AND

(E) ANY SIGNIFICANT DEVIATIONS FROM THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN, CORRECTIVE ACTIONS REQUIRED TO CORRECT THE DEVIATION AND COMPLETION OF THE CORRECTIVE ACTIONS. SUCH DOCUMENTATION SHALL BE ACCOMPLISHED BY INITIATING AND DATING A COPY OF THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN OR BY COMPLETING, DATING AND SIGNING AN INSPECTION REPORT. A SIGNIFICANT DEVIATION MEANS AN OMISSION, ALTERATION OR RELOCATION OF AN EROSION OR SEDIMENTATION CONTROL MEASURE THAT PREVENTS THE MEASURE FROM PERFORMING AS INTENDED.

(2) THE DOCUMENTATION, WHETHER ON A COPY OF THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN OR AN INSPECTION REPORT, SHALL INCLUDE THE NAME, ADDRESS, AFFILIATION, TELEPHONE NUMBER, AND SIGNATURE OF THE PERSON CONDUCTING THE INSPECTION AND THE DATE OF THE INSPECTION. ANY RELEVANT LICENSES AND CERTIFICATIONS MAY ALSO BE INCLUDED. ANY DOCUMENTATION OF INSPECTIONS THAT OCCUR ON A COPY OF THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN SHALL OCCUR ON A SINGLE COPY OF THE PLAN AND THAT PLAN SHALL BE MADE AVAILABLE ON THE SITE. ANY INSPECTION REPORTS SHALL ALSO BE MADE AVAILABLE ON THE SITE.

(3) THE INSPECTION SHALL BE PERFORMED DURING OR AFTER EACH OF THE FOLLOWING PHASES OF A PLAN:

(A) INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROL MEASURES;

(B) CLEARING AND GRUBBING OF EXISTING GROUND COVER;

(C) COMPLETION OF ANY PHASE OF GRADING OF SLOPES OR FILLS THAT REQUIRES PROVISION OF TEMPORARY OR PERMANENT GROUND COVER PURSUANT TO G.S. 113A--57(2);

(D) COMPLETION OF STORM DRAINAGE FACILITIES;

(E) COMPLETION OF CONSTRUCTION OR DEVELOPMENT; AND

(F) QUARTERLY UNTIL THE ESTABLISHMENT OF PERMANENT GROUND COVER SUFFICIENT TO RESTRAIN EROSION OR UNTIL THE FINANCIALLY RESPONSIBLE PARTY HAS CONVEYED OWNERSHIP OR CONTROL OF THE TRACT OF LAND FOR WHICH THE EROSION AND SEDIMENTATION CONTROL PLAN HAS BEEN APPROVED AND THE AGENCY THAT APPROVED THE PLAN HAS BEEN NOTIFIED. IF THE FINANCIALLY RESPONSIBLE PARTY HAS CONVEYED OWNERSHIP OR CONTROL OF THE TRACT OF LAND FOR WHICH THE EROSION AND SEDIMENTATION CONTROL PLAN HAS BEEN APPROVED, THE NEW OWNER OR PERSON IN CONTROL SHALL CONDUCT AND DOCUMENT INSPECTIONS QUARTERLY UNTIL THE ESTABLISHMENT OF PERMANENT GROUND COVER SUFFICIENT TO RESTRAIN EROSION.

HISTORY NOTE: AUTHORITY G.S. 113A--54; 113A--54.1(E); EFF. OCTOBER 1, 2010.

Major Elements of DWQ Construction General Permit

This document contains the major elements of the recently-revised North Carolina Division of Water Quality (DWQ) Construction General Permit (NCG01) with emphasis placed on those elements that differ from the previous permit (expiration on August 2, 2011). Since the summary list below cannot contain details of every change, the complete Permit should be used to assure full implementation. See: <http://portal.ncdcm.org/web/qwq/wsj/construction>

1) Ground Stabilization*

Site Area Description	Stabilization Time Frame	Stabilization Time Frame Exceptions
• Perimeter dikes, swales, ditches and slopes	7 days	None
• High Quality Water (HQW) Zones	7 days	None
• Slopes steeper than 3:1	7 days	If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed.
• Slopes 3:1 or flatter	14 days	7-days for slopes greater than 50 feet in length
• All other areas with slopes flatter than 4:1	14 days	None (except for perimeters and HQW Zones)

* Extensions of time may be approved by the permitting authority based on weather or other site-specific conditions that make compliance impracticable." (Section II.B(2)(b))

The major change in the Permit from the previous one is the shorter times to apply ground stabilization such as mulch, wheat straw, or grasses. The NC laws and rules relating to the Sediment Act require, in most places, ground stabilization within 21 days. Based on the new EPA requirements and 9-months' work with a permit advisory group, CTAG, the Division and EPA-developed permit, now contains requirements for ground cover within 14, and in some places, 7 days.

2) Building Wastes Handling

- No point or liquid wastes in stream or storm drains
- Dedicated areas for demolition, construction and other wastes must be located 50' from storm drains and streams unless no reasonable alternatives available.
- Earthen-material stockpiles must be located 50' from storm drains and streams unless no reasonable alternatives available.
- Concrete materials must be controlled to avoid contact with surface waters, wetlands, or buffers.

3) Discharges to Federally-listed Waters

- Requirements are the same as in previous permit.
- The permit allows reduction from the 20 acre minimum if the Director of DWQ determines that other BMPs provide equivalent protection.

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Major Elements of DWQ Construction General Permit- Continued

4) Inspections

- Same weekly inspection requirements
- Same rain gauge & inspections after 0.5" rain event
- Inspections are only required during "normal business hours"
- Inspection reports must be available on-site during business hours unless a site-specific exemption is approved.
- Records must be kept for 3 years and available upon request.
- Electronically-available records may be substituted under certain conditions.

5) Implementation of New Permit Conditions

- Projects permitted under the previous permit can continue to follow the previously-permitted conditions.
- Complete applications received prior to August 3, 2011 can follow conditions of approved application.
- Applications received after August 2, 2011 must comply with new permit conditions.

6) Conditions in Erosion & Sedimentation Control Plans*

Designation on the plans where the 7 and 14-day ground stabilization requirements of the NPDES permit apply

Designation on the plans where basins that comply with the surface-withdrawal requirements of the NPDES permit are located.

7) Building Wastes Handling

- No point or liquid wastes in stream or storm drains
- Dedicated areas for demolition, construction and other wastes located 50' from storm drains and streams unless no reasonable alternatives are available.
- Earthen-material stockpiles located 50' from storm drains unless no reasonable alternatives available.
- Concrete materials must be controlled to avoid contact with surface waters, wetlands, or buffers.

8) Sediment Basins

- Outlet structures must withdraw from basin surface unless drainage area is less than 1 acre.
- Use only DWQ-approved flocculants.

* In order for the E&S Plan to satisfy the conditions of the Construction General permit, it must identify areas where the ground stabilization requirements apply and the location of the basins where the surface-withdrawal requirements apply.

Document prepared by the Division of Water Quality

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PERMANENT SEEDING

GRASS-LINED CHANNELS
KENTUCKY BLUEGRASS
LYME (GRAIN)
RYE
1:0-1:0-1:0 FERTILIZER
STRAW

20 LB/AC
40 LB/AC
RECOMMENDED RATE PER SOIL TEST
RECOMMENDED RATE PER SOIL TEST
4000 LB/AC

ALL OTHER SURFACES

TALL FESCUE
SWITCHGRASS
SPURGEAR BLUESTREAM
LYME
1:0-1:0-1:0 FERTILIZER
STRAW

100 LB/AC
8 LB/AC
10 LB/AC
4000 LB/AC
RECOMMENDED RATE PER SOIL TEST
4000 LB/AC

TEMPORARY SEEDING

SUMMER (MAY 15 - AUG 15)

GERMAN MILLET

40 LB/AC

FALL (AUG 15 - DEC 15)

RYE (GRAIN)

120 LB/AC

WINTER/EARLY SPRING (FEB 1 - MAY 15)

RYE (GRAIN)

120 LB/AC

KOREAN LESPEDEZA*

50 LB/AC

LYME

1:0-1:0-1:0 FERTILIZER

RECOMMENDED RATE PER SOIL TEST
RECOMMENDED RATE PER SOIL TEST
4000 LB/AC

*ONLY USE THE ANNUAL KOREAN LESPEDEZA (*Lespedeza stipulacea*)
DO NOT USE SERICEA LESPEDEZA (*Lespedeza cuneata*)

SEEDING PROCEDURES:

1. APPLY SEED, AT THE RATES ABOVE, IN TWO INTERSECTING DIRECTIONS, RAKE IN LIGHTLY.
2. DO NOT SEED AREAS IN EXCESS OF THAT WHICH CAN BE MULCHED OR SAID TO BE MULCHED.
3. DO NOT SOW IMMEDIATELY FOLLOWING RAIN, WHEN GROUND IS TOO DRY, OR DURING WINDY PERIODS.
4. RO GRADED AREA WITH ROLLER NOT EXCEEDING 1/2 LB.
5. IMMEDIATELY FOLLOWING SEEDING AND COMPACTING, APPLY MULCH TO A THICKNESS OF 1/8 INCHES. MAINTAIN CLEAR OF SHRUBS AND TREES.
6. APPLY WATER WITH A FINE SPRAY IMMEDIATELY AFTER EACH AREA HAS BEEN MULCHED. SATURATE TO 4 INCHES OF SOIL.
7. IF SOIL AMENDMENTS ARE TO BE USED, RECOMMENDED SOIL TEST BE CONDUCTED

SEED PROTECTION:

1. IDENTIFY SEEDING AREAS WITH STAKES AND STRING AROUND AREA PERIPHERY. SET STRING HEIGHT TO 6 INCHES.
2. COVER SEEDING SLOPES WHERE GRADE IS 4 INCHES PER FOOT OR GREATER WITH EROSION FABRIC. ROLL FABRIC ONTO SLOPES WITHOUT STRETCHING OR PULLING.
3. LAY FABRIC SMOOTHLY ON SURFACE, BURY TOP END OF EACH SECTION IN 6 INCH DEEP EXCAVATED TOPSOIL TRENCH. PROVIDE 12 INCH OVERLAP OF ADJACENT ROLLS. BACKFILL TRENCH AND RAKE SMOOTH, LEVEL WITH ADJACENT SOIL.
4. SECURE OUTSIDE EDGES AND OVERLAPS AT 36 INCH INTERVALS WITH STAKES.
5. LIGHTLY DRESS SLOPES WITH TOPSOIL TO ENSURE CLOSE CONTACT BETWEEN FABRIC AND SOIL.
6. AT SIDES OF DITCHES, LAY FABRIC LAPS IN DIRECTION OF WATER FLOW. LAP ENDS AND EDGES MINIMUM 6 INCHES.

TEMPORARY & PERMANENT SEEDING SPECIFICATIONS + SEED BED PREPARATION NOTES

RIPARIAN BUFFER SEEDING

SUMMER (MAY 15 - AUG 15)

INDIANGRASS (SORGHASTRUM SCOTARUM)

15 LB/AC

LITTLE BLUESTEM (SCHIZACHYRIUM SCOPARIUM)

15 LB/AC

FALL (AUG 15 - DEC 15)

VIRGINIA WILDRYE (ELYMUS VIRGINICUS)

15 LB/AC

WINTER/EARLY SPRING (FEB 1 - MAY 15)

VIRGINIA WILDRYE (ELYMUS VIRGINICUS)

15 LB/AC

WETLAND

SHALLOW SEDGE (CAREX LURIDA)

10 LB/AC

LYME

1:0-1:0-1:0 FERTILIZER

RECOMMENDED RATE OR 2000 LB/AC
RECOMMENDED RATE OR 750 LB/AC
4000 LB/AC

RECOMMENDED LIVE STAKE SPECIES

BUTTONBUSH (CEPHALOTHUS ACIDENTATUS)
SILKY DOGWOOD (CORNUS AMAMUM)
RED OSIER DOGWOOD (CORNUS SERICEA C. STOLONIFERA)
BANKERS DWARF WILLOW (SALIX COTTETII)

RIPARIAN BUFFER SEEDING SPECIFICATIONS + NOTES

PART II 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 when it is safe to perform the inspection. In addition, when an 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.

Inspection	Frequency	Inspection Record must include:
(1) Riparian vegetation inspection to ground/water center	Daily	Daily rainfall amounts. If no daily rain gauge measurements are made during weathered or holiday periods, and no field/digital rainfall information is available, record the rainfall amount in inches for the day. If the permittee may use another rain-measuring device approved by the Division.
(2) E&S measures	At least once every 7 calendar days and within 24 hours of each rain event > 0.5 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. Location of the inspection. 5. Description of the measures inspected. 6. Description, location, and date of corrective action taken. 7. Date and time of the inspection. 8. Name of the person performing the inspection. 9. Location of the inspection. 10. Description of the measures inspected. 11. Description of the measures inspected. 12. Description of the measures inspected. 13. Description of the measures inspected. 14. Description of the measures inspected. 15. Description of the measures inspected. 16. Description of the measures inspected. 17. Description of the measures inspected. 18. Description of the measures inspected. 19. Description of the measures inspected. 20. Description of the measures inspected.
(3) Stormwater discharge outfalls (SDOs)	At least once every 7 calendar days and within 24 hours of each rain event > 0.5 inch in 24 hours	1. Identification of the discharge outfall inspected. 2. Date and time of the inspection. 3. Name of the person performing the inspection. 4. Location of the inspection. 5. Description of the measures inspected. 6. Description of the measures inspected. 7. Description of the measures inspected. 8. Description of the measures inspected. 9. Description of the measures inspected. 10. Description of the measures inspected. 11. Description of the measures inspected. 12. Description of the measures inspected. 13. Description of the measures inspected. 14. Description of the measures inspected. 15. Description of the measures inspected. 16. Description of the measures inspected. 17. Description of the measures inspected. 18. Description of the measures inspected. 19. Description of the measures inspected. 20. Description of the measures inspected.
(4) Perimeter of site	At least once every 7 calendar days and within 24 hours of each rain event > 0.5 inch in 24 hours	1. Identification of the perimeter inspected. 2. Date and time of the inspection. 3. Name of the person performing the inspection. 4. Location of the inspection. 5. Description of the measures inspected. 6. Description of the measures inspected. 7. Description of the measures inspected. 8. Description of the measures inspected. 9. Description of the measures inspected. 10. Description of the measures inspected. 11. Description of the measures inspected. 12. Description of the measures inspected. 13. Description of the measures inspected. 14. Description of the measures inspected. 15. Description of the measures inspected. 16. Description of the measures inspected. 17. Description of the measures inspected. 18. Description of the measures inspected. 19. Description of the measures inspected. 20. Description of the measures inspected.
(5) Stormwater discharge outfalls (SDOs)	At least once every 7 calendar days and within 24 hours of each rain event > 0.5 inch in 24 hours	1. Identification of the discharge outfall inspected. 2. Date and time of the inspection. 3. Name of the person performing the inspection. 4. Location of the inspection. 5. Description of the measures inspected. 6. Description of the measures inspected. 7. Description of the measures inspected. 8. Description of the measures inspected. 9. Description of the measures inspected. 10. Description of the measures inspected. 11. Description of the measures inspected. 12. Description of the measures inspected. 13. Description of the measures inspected. 14. Description of the measures inspected. 15. Description of the measures inspected. 16. Description of the measures inspected. 17. Description of the measures inspected. 18. Description of the measures inspected. 19. Description of the measures inspected. 20. Description of the measures inspected.
(6) Stormwater discharge outfalls (SDOs)	At least once every 7 calendar days and within 24 hours of each rain event > 0.5 inch in 24 hours	1. Identification of the discharge outfall inspected. 2. Date and time of the inspection. 3. Name of the person performing the inspection. 4. Location of the inspection. 5. Description of the measures inspected. 6. Description of the measures inspected. 7. Description of the measures inspected. 8. Description of the measures inspected. 9. Description of the measures inspected. 10. Description of the measures inspected. 11. Description of the measures inspected. 12. Description of the measures inspected. 13. Description of the measures inspected. 14. Description of the measures inspected. 15. Description of the measures inspected. 16. Description of the measures inspected. 17. Description of the measures inspected. 18. Description of the measures inspected. 19. Description of the measures inspected. 20. Description of the measures inspected.
(7) Stormwater discharge outfalls (SDOs)	At least once every 7 calendar days and within 24 hours of each rain event > 0.5 inch in 24 hours	1. Identification of the discharge outfall inspected. 2. Date and time of the inspection. 3. Name of the person performing the inspection. 4. Location of the inspection. 5. Description of the measures inspected. 6. Description of the measures inspected. 7. Description of the measures inspected. 8. Description of the measures inspected. 9. Description of the measures inspected. 10. Description of the measures inspected. 11. Description of the measures inspected. 12. Description of the measures inspected. 13. Description of the measures inspected. 14. Description of the measures inspected. 15. Description of the measures inspected. 16. Description of the measures inspected. 17. Description of the measures inspected. 18. Description of the measures inspected. 19. Description of the measures inspected. 20. Description of the measures inspected.
(8) Stormwater discharge outfalls (SDOs)	At least once every 7 calendar days and within 24 hours of each rain event > 0.5 inch in 24 hours	1. Identification of the discharge outfall inspected. 2. Date and time of the inspection. 3. Name of the person performing the inspection. 4. Location of the inspection. 5. Description of the measures inspected. 6. Description of the measures inspected. 7. Description of the measures inspected. 8. Description of the measures inspected. 9. Description of the measures inspected. 10. Description of the measures inspected. 11. Description of the measures inspected. 12. Description of the measures inspected. 13. Description of the measures inspected. 14. Description of the measures inspected. 15. Description of the measures inspected. 16. Description of the measures inspected. 17. Description of the measures inspected. 18. Description of the measures inspected. 19. Description of the measures inspected. 20. Description of the measures inspected.
(9) Stormwater discharge outfalls (SDOs)	At least once every 7 calendar days and within 24 hours of each rain event > 0.5 inch in 24 hours	1. Identification of the discharge outfall inspected. 2. Date and time of the inspection. 3. Name of the person performing the inspection. 4. Location of the inspection. 5. Description of the measures inspected. 6. Description of the measures inspected. 7. Description of the measures inspected. 8. Description of the measures inspected. 9. Description of the measures inspected. 10. Description of the measures inspected. 11. Description of the measures inspected. 12. Description of the measures inspected. 13. Description of the measures inspected. 14. Description of the measures inspected. 15. Description of the measures inspected. 16. Description of the measures inspected. 17. Description of the measures inspected. 18. Description of the measures inspected. 19. Description of the measures inspected. 20. Description of the measures inspected.
(10) Stormwater discharge outfalls (SDOs)	At least once every 7 calendar days and within 24 hours of each rain event > 0.5 inch in 24 hours	1. Identification of the discharge outfall inspected. 2. Date and time of the inspection. 3. Name of the person performing the inspection. 4. Location of the inspection. 5. Description of the measures inspected. 6. Description of the measures inspected. 7. Description of the measures inspected. 8. Description of the measures inspected. 9. Description of the measures inspected. 10. Description of the measures inspected. 11. Description of the measures inspected. 12. Description of the measures inspected. 13. Description of the measures inspected. 14. Description of the measures inspected. 15. Description of the measures inspected. 16. Description of the measures inspected. 17. Description of the measures inspected. 18. Description of the measures inspected. 19. Description of the measures inspected. 20. Description of the measures inspected.

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

PART II, SECTION C, ITEM (4)

DRAW DOWN OF SEDIMENT BASINS FOR MAINTENANCE OR CLOSE OUT

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

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

SEED BED PREPARATION:

1. SURFACE WATER CONTROL MEASURES TO BE INSTALLED ACCORDING TO PLAN.
2. AREAS TO BE SEEDING SHALL BE RIPPED AND SPREAD WITH AVAILABLE TOPSOIL 3" DEEP. TOTAL SEEDING PREPARED DEPTH SHALL BE 4"-6" DEEP.
- (A) IF THE SURFACE WATER CONTROL MEASURES TO BE INSTALLED ARE NOT REMOVED FROM THE SURFACE SO THAT THEY WILL NOT INTERFERE WITH ESTABLISHMENT AND MAINTENANCE OF VEGETATION, SURFACE FOR FINAL SEEDING PREPARATION, AT FINISH GRADES SHOWN, SHALL BE REASONABLY SMOOTH AND UNIFORM.
4. IF NO SOIL TEST IS TAKEN, FERTILIZER AND LYME TO BE APPLIED ACCORDING TO THE SEEDING SPECIFICATIONS. IN ADDITION, PROVIDE 1.5 LBS/1,000 SF OF SUPERPHOSPHATE.
5. IF SOIL TEST IS TAKEN, PROVIDE LYME AND FERTILIZER ACCORDING TO SOIL TEST REPORT.
6. LYME AND FERTILIZER SHALL BE APPLIED UNIFORMLY AND MIXED WITH SOIL DURING SEEDING PREPARATION.

**SOIL TEST IS REQUIRED FOR SITES WITH OR ADJACENT TO STREAMS

GRADED SLOPES AND FILLS:

THE ANGLE FOR GRADED SLOPES AND FILLS SHALL BE NO GREATER THAN THE ANGLE WHICH CAN BE RETAINED BY VEGETATIVE COVER OR ADEQUATE EROSION CONTROL DEVICES OR STRUCTURES. IN ANY EVENT, SLOPES LEFT EXPOSED SHALL, WITHIN 15 DAYS OF COMPLETION OF ANY PHASE OF GRADING, BE PLANTED OR OTHERWISE PROVIDED WITH GROUND COVER, DEVICES, OR STRUCTURES SUFFICIENT TO RESTRAIN EROSION.

GROUND COVER:

A GROUND COVER SUFFICIENT TO RESTRAIN EROSION MUST BE PLANTED OR OTHERWISE PROVIDED WITHIN 15 WORKING DAYS ON THE PORTION OF THE PROJECT AREA WHICH FURTHER ACTIVE CONSTRUCTION IS NOT BEING UNDERTAKEN.

NCDENR MAY REQUIRE ADDITIONAL EROSION CONTROL MEASURES AS REQUIRED

LAWNS:

EXISTING LAWNS THAT ARE DISTURBED SHALL BE REVEGETATED ACCORDING TO THE ABOVE SPECIFICATIONS WITH THE FOLLOWING SPECIFICATIONS:

1. ONLY REBEL FESCUE SHALL BE APPLIED.
2. DO NOT USE ASPHALT EMULSION TACK COAT.

UTILITY GENERAL NOTES

1. A MANDATORY PRE-CONSTRUCTION MEETING SHALL OCCUR BEFORE ANY CONSTRUCTION BEGINS WITH A REPRESENTATIVE FROM THE CONTRACTOR'S OFFICE, ODOM ENGINEERING, AND THE CITY OF SHELBY.
2. CONTRACTOR TO CALL SHELBY AT LEAST 48 HOURS PRIOR TO LAND DISTURBING ACTIVITY IS TO BEGIN.
3. CONTRACTOR IS TO DO SELF-INSPECTIONS PER '15A NCAC 04B .0131 SELF INSPECTIONS'. SEE DETAIL SHEET.
4. GRADED SLOPES AND FILLS SHALL BE PROTECTED WITH A ROLLED EROSION CONTROL PRODUCT IF COMPLETED OUTSIDE THE OPTIMUM GERMINATION SEASONS. WHEN UNFAVORABLE WEATHER CONDITIONS PREVENT ESTABLISHMENT OF VEGETATIVE COVER.
5. CONTRACTOR TO CONTACT ENGINEER IMMEDIATELY UPON DISCOVERING ANY DISCREPANCIES IN THE FIELD NOT SHOWN ON PLANS.
6. ANY ACTIONS OR COST INCREASE ABOVE AND BEYOND CONTRACT WITH OWNER/DEVELOPER SHALL BE APPROVED BY ENGINEER. ANY ADDITIONAL WORK OR COST INCREASE COMPLETED BY CONTRACTOR WITHOUT SAID WRITTEN APPROVAL FROM ENGINEER, SHALL BECOME CONTRACTOR'S FINANCIAL RESPONSIBILITY AND NOT THE OWNER/DEVELOPER.
7. PROPERTY LINES AND RIGHT-OF-WAYS ARE APPROXIMATE. ALL WORK SHALL BE COMPLETED WITHIN CONSTRUCTION EASEMENTS OR RIGHT-OF-WAYS.
8. SIZE, DEPTH, AND LOCATION OF UTILITIES ON THE PLANS ARE APPROXIMATE UNLESS OTHERWISE NOTED. CONTRACTOR TO FIELD VERIFY.
9. THE CONTRACTOR SHALL VERIFY THE SIZE, DEPTH AND LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION AND IS RESPONSIBLE FOR ANY UTILITY DAMAGE.
10. ALL CUTS IN PAVED SURFACES SHALL BE SAW CUT AND NEATLY RESURFACED.
11. ALL WORK WITHIN NCDOT AND/OR LOCAL MAINTAINED ROADS AND RIGHT-OF-WAYS SHALL BE CONDUCTED IN ACCORDANCE WITH NCDOT/CITY/TOWN POLICIES AND PROCEDURES.
12. ALL DISTURBED DITCHES SHALL BE STABILIZED WITH NAG SC125 OR EQUIVALENT SINGLE STRAW MATTING.
13. EXCAVATED MATERIAL SHALL BE STOCKPILED UPGRADIENT OF TRENCHES WHENEVER POSSIBLE.
14. PROVIDE DROP INLET PROTECTION AS REQUIRED IN DISTURBED AREAS.
15. DRIVEWAYS AND/OR SIDEWALKS SHALL BE RESTORED WITH LIKE MATERIALS. CONCRETE DRIVEWAYS REPLACED TO THE MINIMUM OF 6-INCH THICKNESS AND SIDEWALKS SHALL BE 4-INCH THICKNESS UNLESS OTHERWISE NOTED.
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND REPLACEMENT OF ALL EXISTING PAVEMENT, DRIVEWAYS, GRAVEL ROADWAYS, CULVERTS, CULVERT HEADWALLS, FENCES, SIGNS, MAILBOXES AND OTHER MISCELLANEOUS ITEMS WHERE REQUIRED TO COMPLETE CONSTRUCTION.
17. VERTICAL SEPARATION OF AT LEAST 18" SHALL BE MAINTAINED BETWEEN WATER AND SEWER MAINS AT ALL TIMES IN ACCORDANCE WITH RULE .0906
18. VERTICAL SEPARATION OF AT LEAST 12" SHALL BE MAINTAINED BETWEEN WATER AND ALL OTHER (NON SEWER) UTILITIES AT ALL TIMES IN ACCORDANCE WITH RULE .0904

JOB NUMBER:

26030

DATE

BY

DESCRIPTION

REV

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3

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NOT FOR CONSTRUCTION

CERTIFICATION

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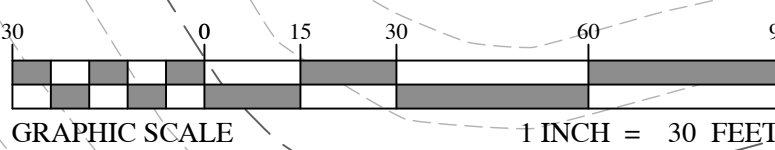
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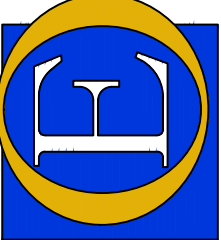
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I HEREBY CERTIFY THAT
THIS PLAN AND
SPECIFICATION WAS
PREPARED BY ME OR
UNDER MY DIRECT
SUPERVISION AND THAT I
AM A DULY REGISTERED
ARCHITECT OR ENGINEER
UNDER THE LAWS OF THE
STATE OF NORTH CAROLINA
AS SIGNIFIED BY MY HAND
AND SEAL.

CERTIFICATION

Odom
Engineering
PLLC
169 Oak Street, Forest City, N.C. 28043
ph: 828.247.4495 fax: 828.247.4498
NC Firm#: P-08880



DATE: 06/16/2026

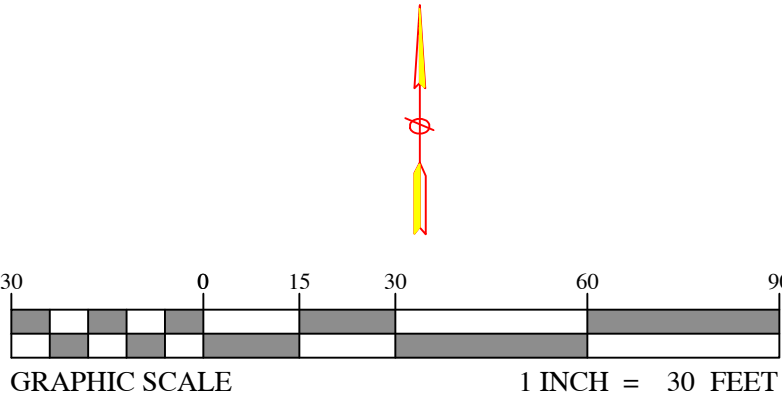
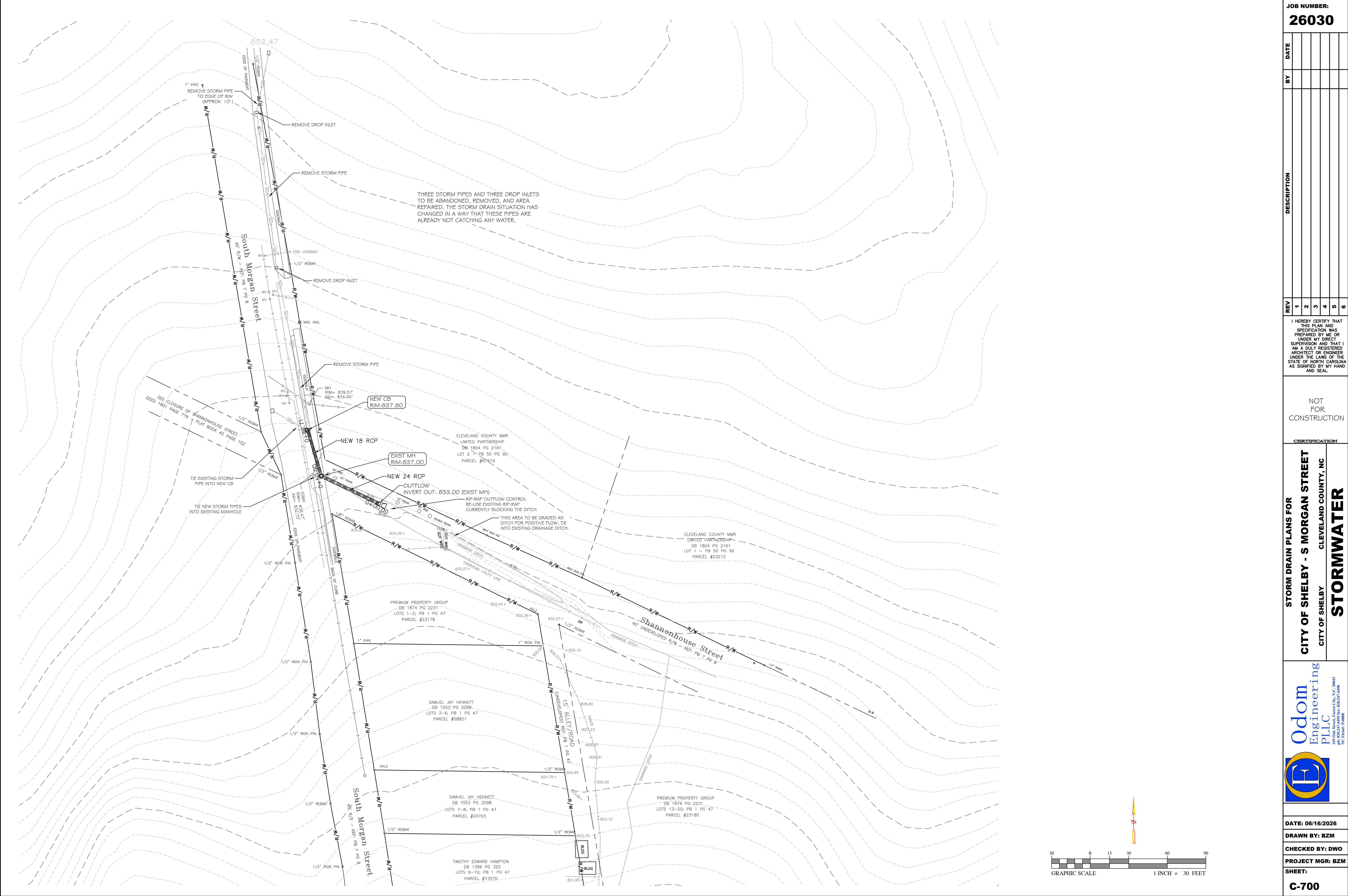
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PROJECT MGR: BZM

SHEET:

C-200



JOB NUMBER:
26030

DATE	BY	DESCRIPTION

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I HEREBY CERTIFY THAT THIS PLAN AND SPECIFICATION WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED ARCHITECT OR ENGINEER UNDER THE LAWS OF THE STATE OF NORTH CAROLINA AS SIGNIFIED BY MY HAND AND SEAL.

NOT FOR CONSTRUCTION

CERTIFICATION

STORM DRAIN PLANS FOR
CITY OF SHELBY - S MORGAN STREET
CITY OF SHELBY
CLEVELAND COUNTY, NC

STORMWATER

Odom Engineering
PLLC
169 Oak Street, Forest City, N.C. 28043
ph: 828.247.4498 fax: 828.247.4498
NC License # 44086

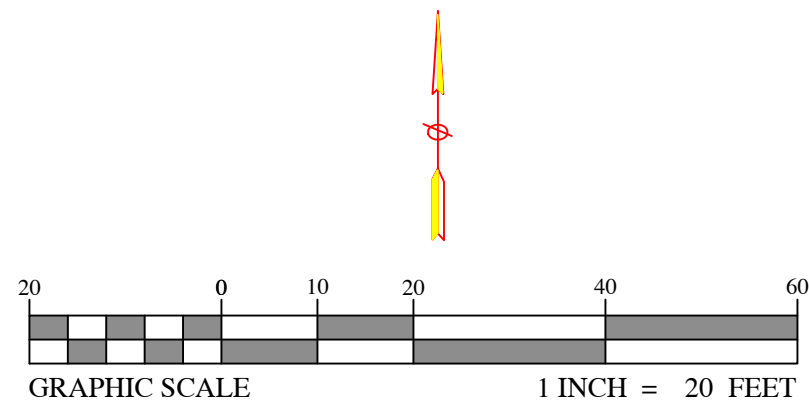
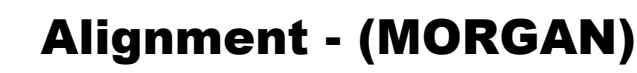
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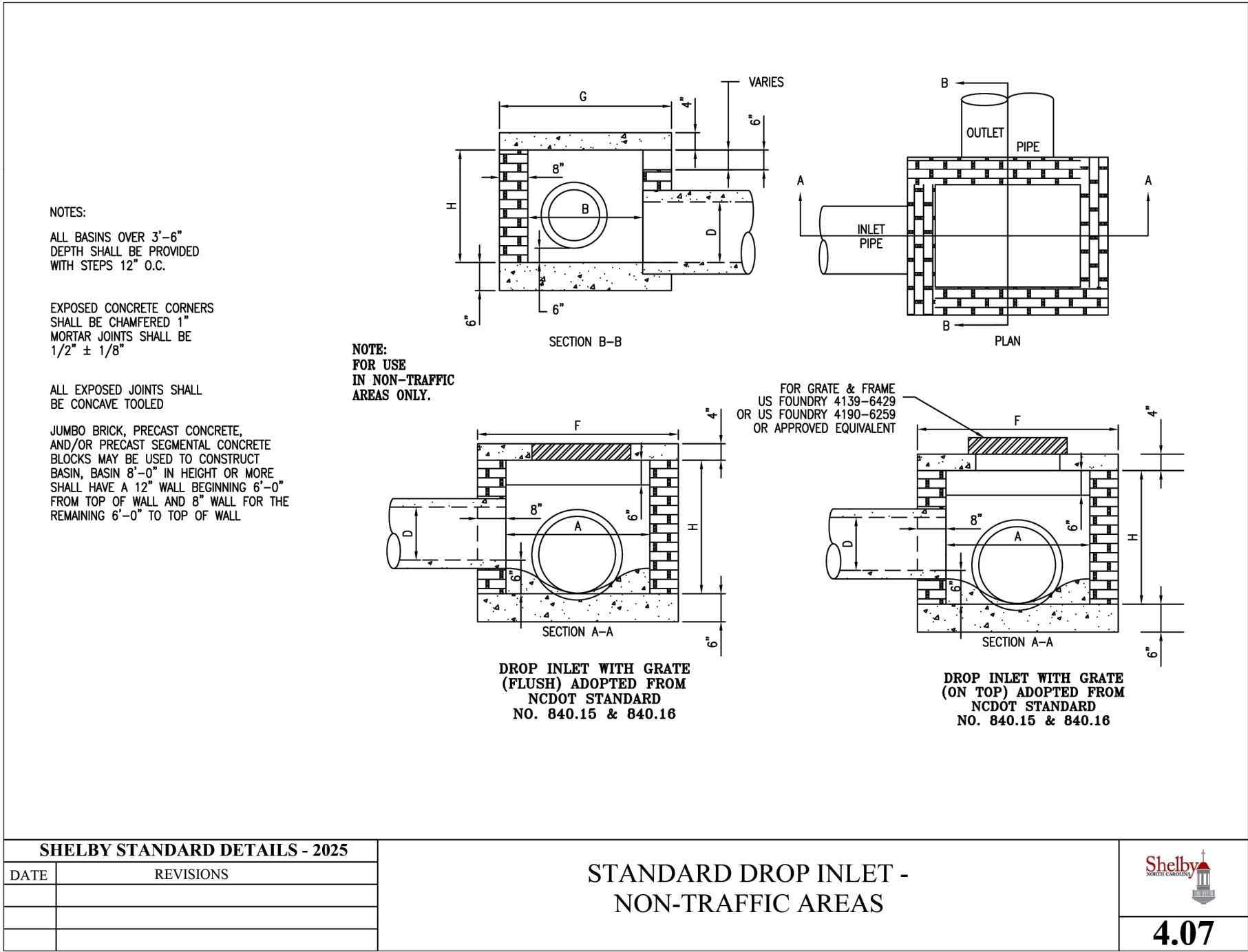
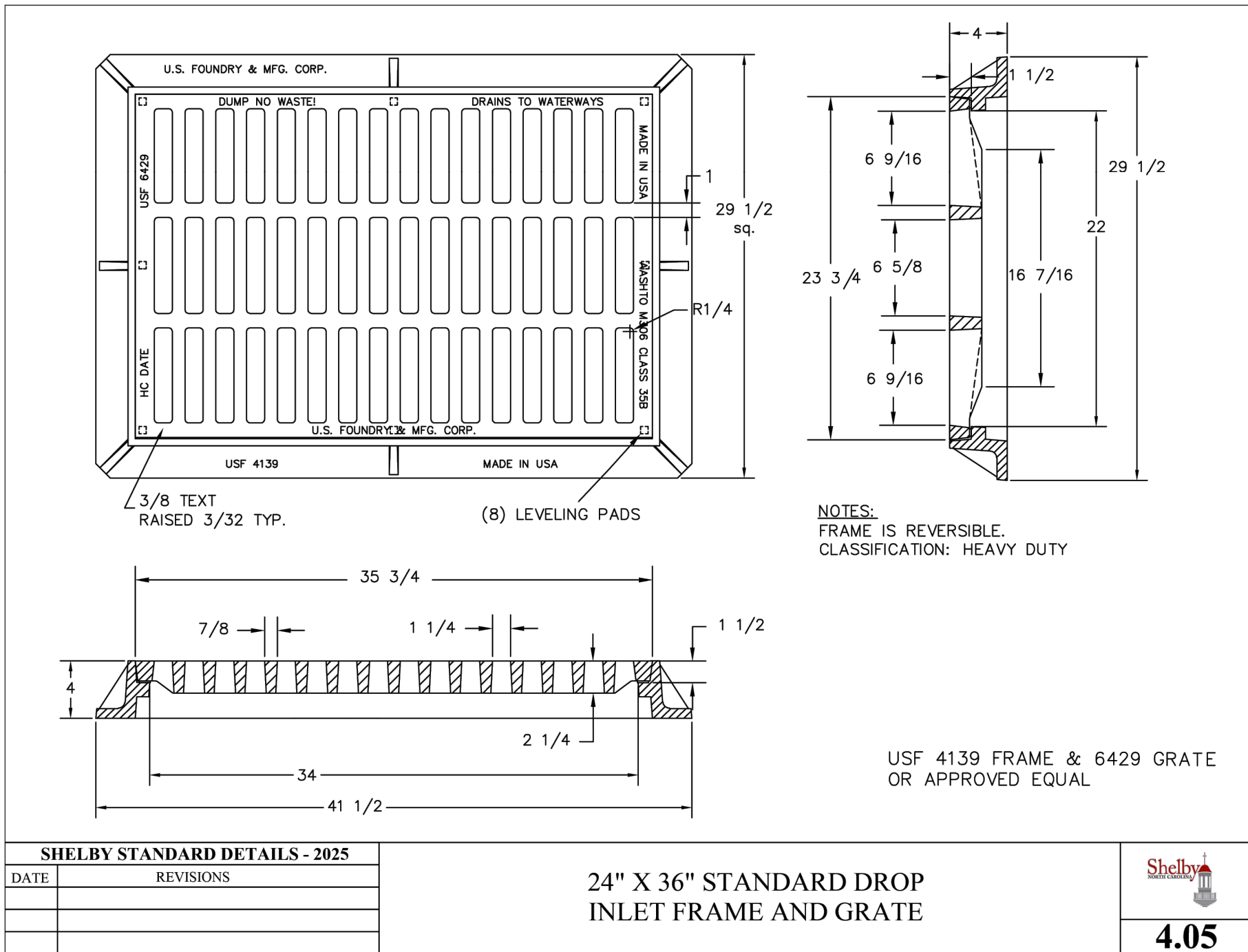
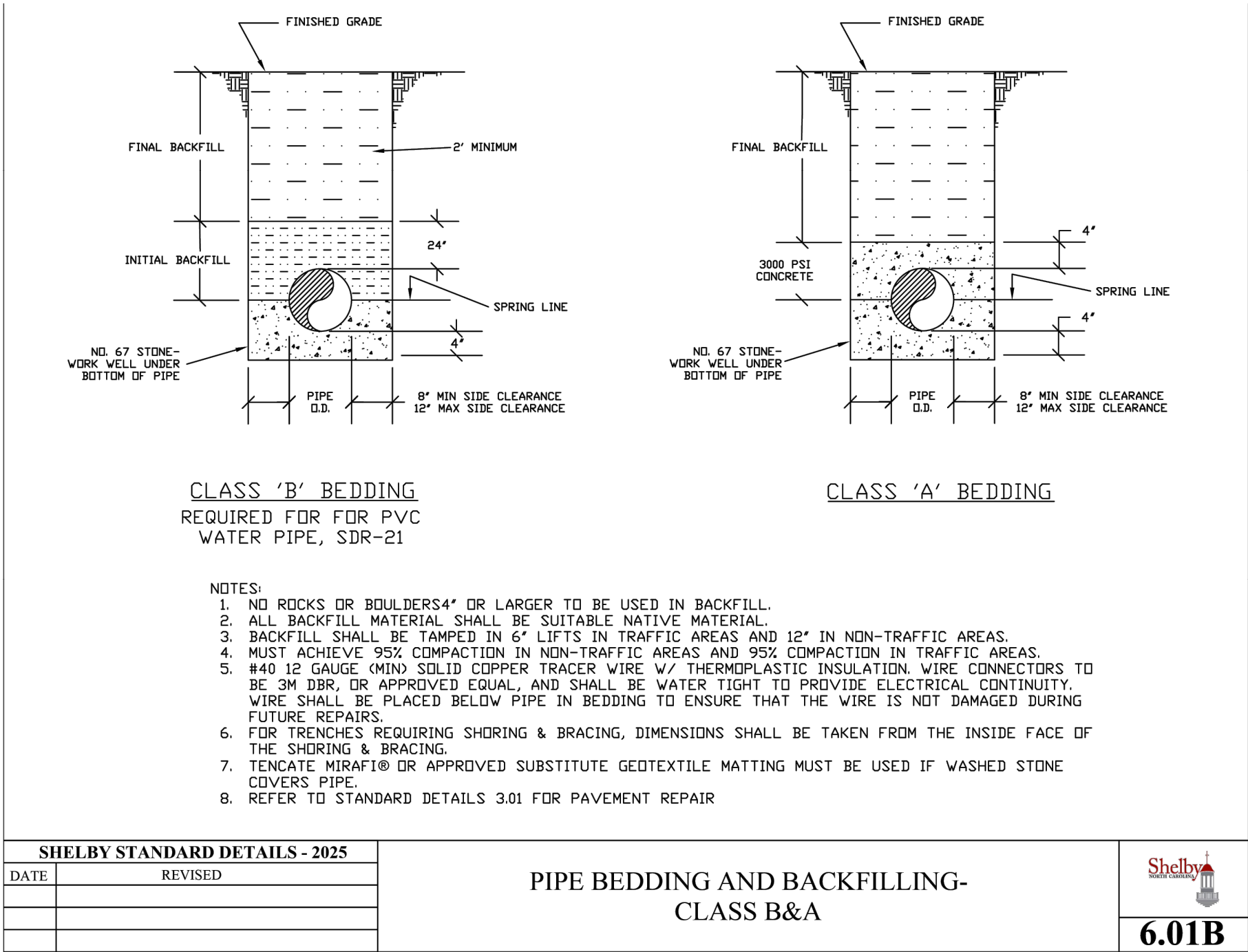
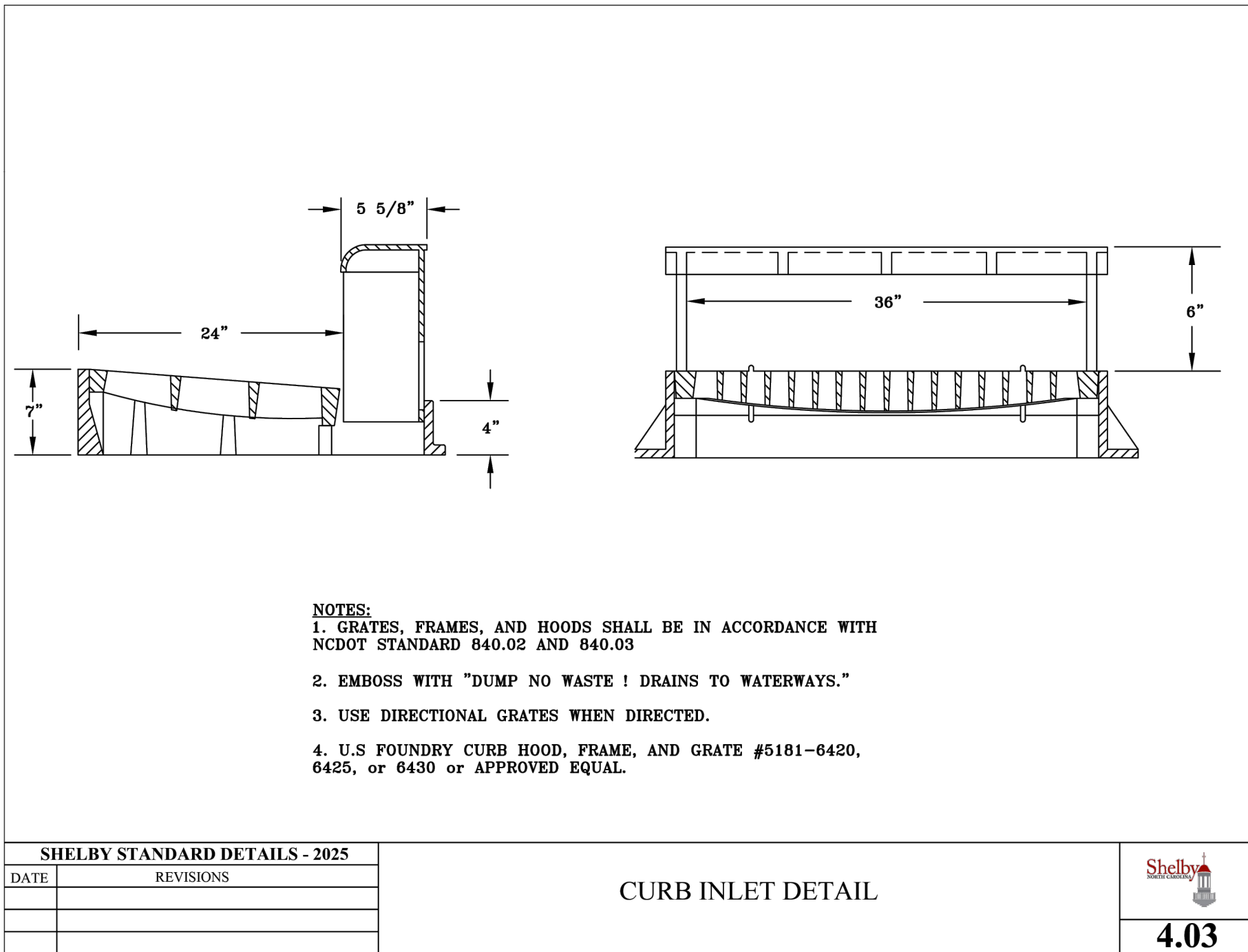
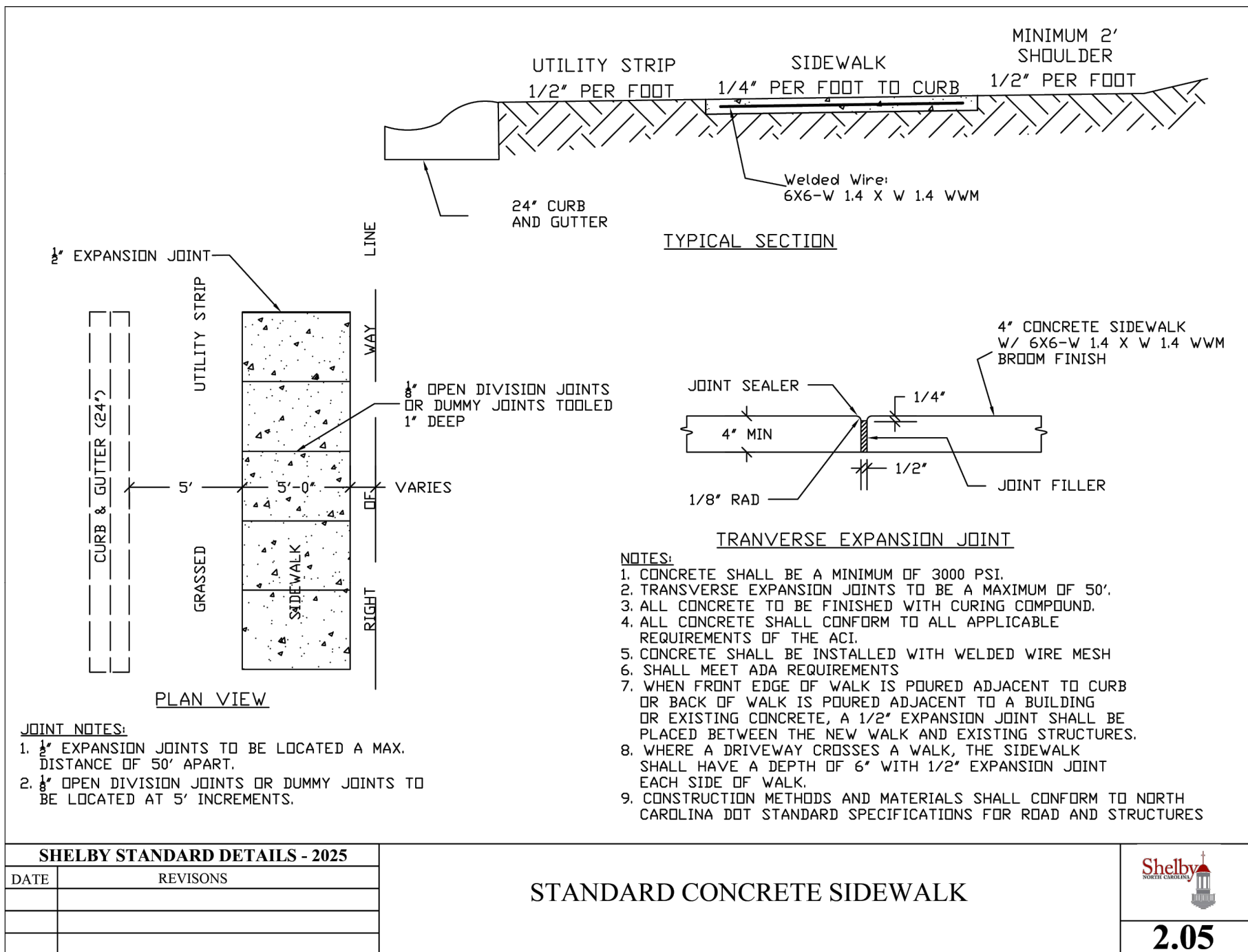
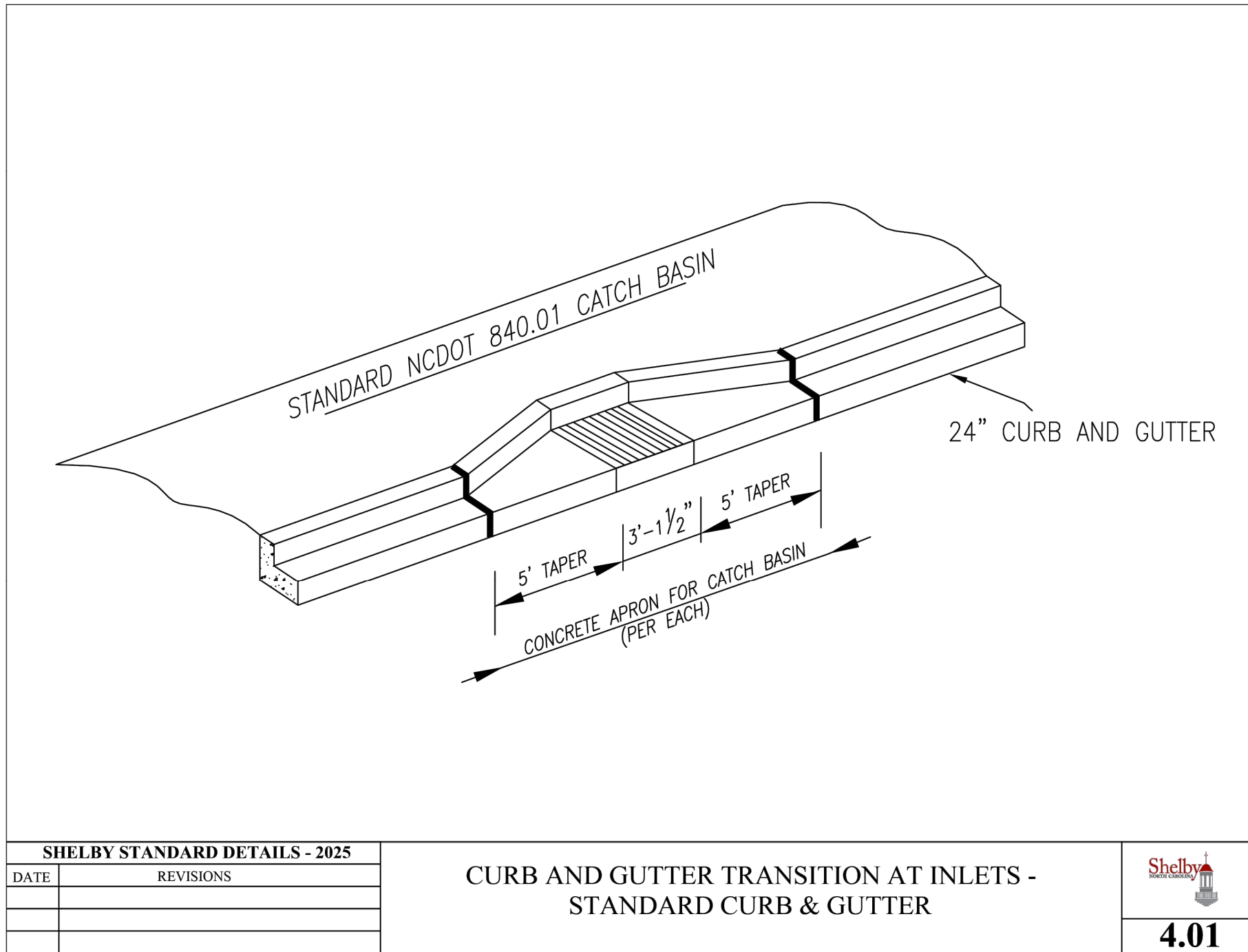
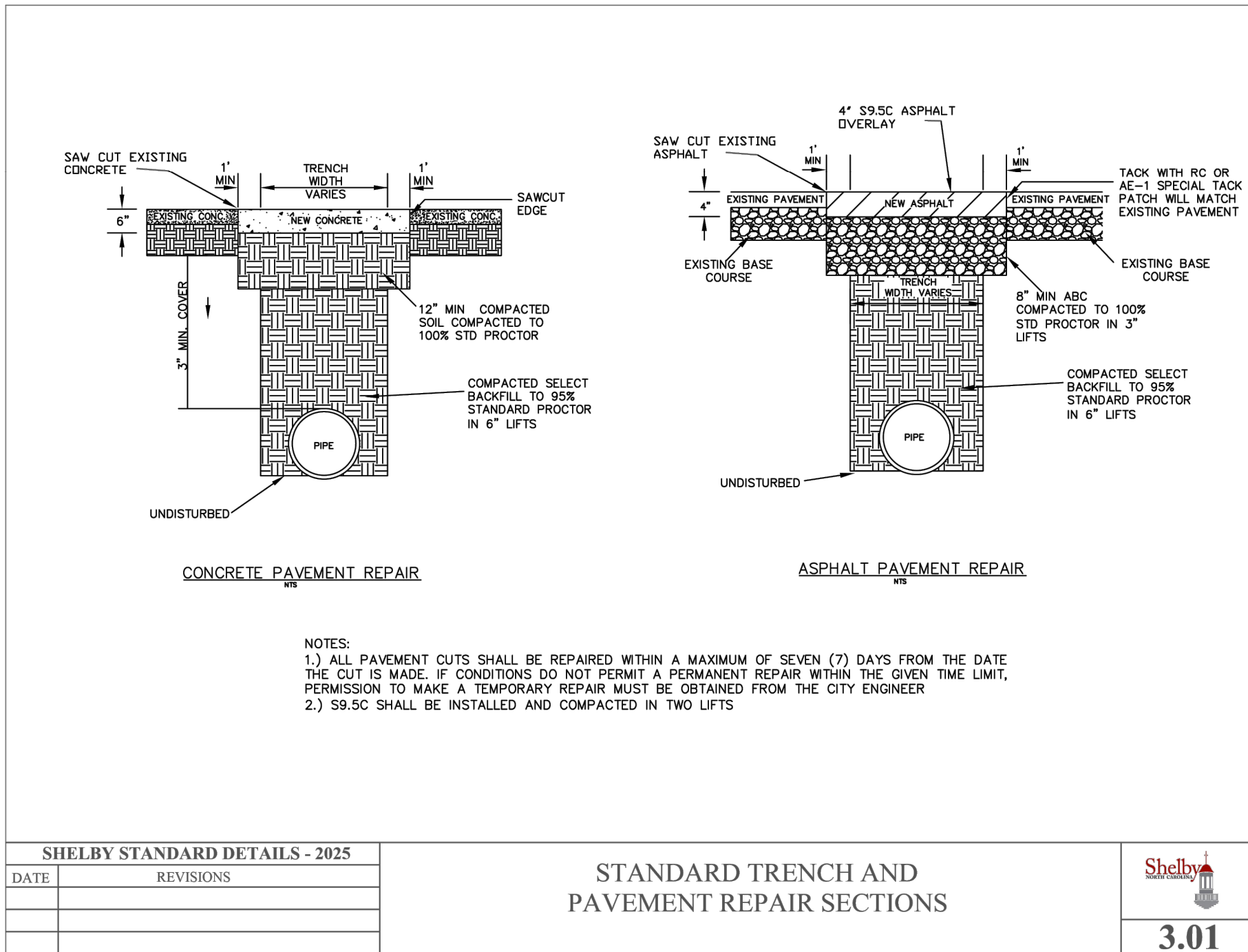
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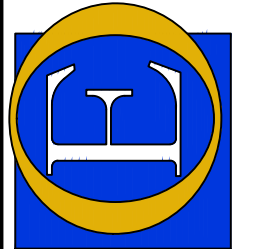
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CERTIFICATION

STORM DRAIN PLANS FOR
CITY OF SHELBY - S MORGAN STREET
CITY OF SHELBY
CLEVELAND COUNTY, NC
DETAILS

Odom
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PLLC
169 Oak Street, Forest City, N.C. 28043
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NC License # 4406



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