



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

| SHEET NUMBER       | INDEX OF SHEETS SHEET                                 |
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| 1                  | TITLE SHEET   |
| 1A                 | INDEX OF SHEETS, GENERAL NOTES, AND STANDARD DRAWINGS |
| 1B                 | CONVENTIONAL SYMBOLS                                  |
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| RW01 THRU RW04     | RIGHT OF WAY PLANS                                    |
| TMP-1 THRU TMP-9   | TRAFFIC MANAGEMENT PLANS                              |
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| UO-1 THRU UO-2     | UTILITIES BY OTHERS PLANS                             |
| X-1                | CROSS-SECTION INDEX SHEET                             |
| X-1A               | CROSS-SECTIONS SUMMARY SHEET                          |
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| S-1 THRU S-57      | STRUCTURE PLANS                                       |

**GENERAL NOTES:**

2024 SPECIFICATIONS  
EFFECTIVE: 01-16-2024  
REVISED:

**GRADING AND SURFACING OR RESURFACING AND WIDENING:**

THE GRADE LINES SHOWN DENOTE THE FINISHED ELEVATION OF THE PROPOSED SURFACING AT GRADE POINTS SHOWN ON THE TYPICAL SECTIONS. WHERE NO GRADE LINES ARE SHOWN, THE PROFILES SHOWN DENOTE THE TOP ELEVATION OF THE EXISTING PAVEMENT ALONG THE CENTER LINE OF SURVEY ON WHICH THE PROPOSED RESURFACING WILL BE PLACED. GRADE LINES MAY BE ADJUSTED BY THE ENGINEER IN ORDER TO SECURE A PROPER TIE-IN.

**CLEARING:**

CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD III.

**SUPERELEVATION:**

ALL CURVES ON THIS PROJECT SHALL BE SUPERELEVATED IN ACCORDANCE WITH STD. NO. 225.04 USING THE RATE OF SUPERELEVATION AND RUNOFF SHOWN ON THE PLANS. SUPERELEVATION IS TO BE REVOLVED ABOUT THE GRADE POINTS SHOWN ON THE TYPICAL SECTIONS.

**SHOULDER CONSTRUCTION:**

ASPHALT, EARTH, AND CONCRETE SHOULDER CONSTRUCTION ON THE HIGH SIDE OF SUPERELEVATED CURVES SHALL BE IN ACCORDANCE WITH STD. NO. 560.01

**SIDE ROADS:**

THE CONTRACTOR WILL BE REQUIRED TO DO ALL NECESSARY WORK TO PROVIDE SUITABLE CONNECTIONS WITH ALL ROADS, STREETS, AND DRIVES ENTERING THIS PROJECT. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PARTICULAR ITEMS INVOLVED.

**STREET TURNOUT:**

STREET RETURNS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. NO. 848.04 USING THE RADIUS NOTED ON PLANS.

**GUARDRAIL:**

THE GUARDRAIL LOCATIONS SHOWN ON THE PLANS MAY BE ADJUSTED DURING CONSTRUCTION AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHOULD CONSULT WITH THE ENGINEER PRIOR TO ORDERING GUARDRAIL MATERIAL.

**TEMPORARY SHORING:**

SHORING REQUIRED FOR THE MAINTENANCE OF TRAFFIC NOT SHOWN ON THE PLANS WILL BE PAID FOR AT THE CONTRACT PRICE FOR "TEMPORARY SHORING".

**END BENTS:**

THE ENGINEER SHALL CHECK THE STRUCTURE END BENT PLANS, DETAILS, AND CROSS-SECTION PRIOR TO SETTING OF THE SLOPE STAKES FOR THE EMBANKMENT OR EXCAVATION APPROACHING A BRIDGE.

**UTILITIES:**

UTILITY OWNERS ON THIS PROJECT ARE Duke Energy Progress,  
Brightspeed Communications, Windstream Communications,  
Charter Communications, Piedmont Natural Gas, Town of Smithfield,  
Johnston County Public Utilities

ANY RELOCATION OF EXISTING UTILITIES WILL BE ACCOMPLISHED BY OTHERS, EXCEPT AS SHOWN ON THE PLANS.

**RIGHT-OF-WAY MARKERS:**

ALL RIGHT-OF-WAY MARKERS ON THIS PROJECT SHALL BE PLACED BY OTHERS.

2024 ROADWAY ENGLISH STANDARD DRAWINGS

EFF. 01-16-2024  
REV.

The following Roadway Standards as appear in "Roadway Standard Drawings" Contracts Standards and Development Unit - N. C. Department of Transportation - Raleigh, N. C., Dated January 16, 2024 are applicable to this project and by reference hereby are considered a part of these plans:

| STD. NO.  | TITLE  |
|---|--|
| <b>DIVISION 2 - EARTHWORK</b>                     |  |
| 200.03  | Method of Clearing - Method III  |
| 225.02  | Guide for Grading Subgrade - Secondary and Local   |
| 225.04  | Method of Obtaining Superelevation - Two Lane Pavement                                   |
| 275.01  | Rock Paving  |
| <b>DIVISION 3 - PIPE CULVERTS</b>                 |  |
| 300.01  | Method of Pipe Installation (Use Details in Lieu of Standards for Sheets 1 and 2 of 2)   |
| <b>DIVISION 4 - MAJOR STRUCTURES</b>              |  |
| 423.01  | Bridge Approach Fills - Type 1 Approach Fill for Bridge Abutment                         |
| 423.02  | Bridge Approach Fills - Type 1A Alternate Approach Fill for Integral Bridge Abutment     |
| <b>DIVISION 5 - SUBGRADE, BASES AND SHOULDERS</b> |  |
| 560.01  | Method of Shoulder Construction - High Side of Superelevated Curve - Method I            |
| 560.02  | Method of Shoulder Construction - High Side of Superelevated Curve - Method II           |
| <b>DIVISION 6 - ASPHALT BASES AND PAVEMENTS</b>   |  |
| 654.01  | Pavement Repairs   |
| <b>DIVISION 8 - INCIDENTALS</b>                   |  |
| 840.00  | Concrete Base Pad for Drainage Structures  |
| 840.01  | Brick Catch Basin - 12" thru 54" Pipe  |
| 840.02  | Concrete Catch Basin - 12" thru 54" Pipe   |
| 840.03  | Frame, Grates and Hood - for Use on Standard Catch Basin                                 |
| 840.18  | Concrete Grated Drop Inlet Type 'B' - 12" thru 36" Pipe                                  |
| 840.27  | Brick Grated Drop Inlet Type 'B' - 12" thru 36" Pipe                                     |
| 840.29  | Frames and Narrow Slot Flat Grates   |
| 840.31  | Concrete Junction Box - 12" thru 66" Pipe  |
| 840.32  | Brick Junction Box - 12" thru 66" Pipe   |
| 840.35  | Traffic Bearing Grated Drop Inlet - for Cast Iron Double Frame and Grates                |
| 840.45  | Precast Drainage Structure   |
| 840.54  | Manhole Frame and Cover  |
| 840.66  | Drainage Structure Steps   |
| 840.71  | Concrete and Brick Pipe Plug   |
| 840.72  | Pipe Collar  |
| 846.01  | Concrete Curb, Gutter and Curb & Gutter  |
| 846.04  | Drop Inlet Installation in Shoulder Berm Gutter  |
| 848.04  | Street Turnout   |
| 862.01  | Guardrail Placement (Use Details in Lieu of Standards for Sheets 4, 6, 12, and 14 of 15) |
| 862.02  | Guardrail Installation   |
| 862.03  | Structure Anchor Units (Use Detail in Lieu of Standard for Sheet 8 of 9)                 |
| 866.01  | Chain Link Fence - 4', 5' and 6' High Fence  |
| 876.02  | Guide for Rip Rap at Pipe Outlets  |