28/9

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

INDEX OF SHEETS

PROJECT REFERENCE NO.

R-4060

ROADWAY DESIGN
ENGINEER

SEAL
028951

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SHEET NUMBER SHEET

1 TITLE SHEET

1-A INDEX OF SHEETS, GENERAL NOTES, AND LIST OF STANDARD DRAWINGS

1-B CONVENTIONAL SYMBOLS

1C-1 THRU 1C-3 SURVEY CONTROL SHEETS

2 THRU 2-B PAVEMENT SCHEDULE, TYPICAL SECTIONS, AND

WEDGING DETAILS

2C-1 STRUCTURE ANCHOR UNIT 2D-1 THRU 2D-3 GRADING SITE DETAIL

2E-1 CENTERLINE COORDINATE LIST

2F-1 CHAIN LINK FENCE WITH BARBED WIRE

3-A THRU 3-B DRAINAGE SUMMARY SHEETS

3-C SUMMARY OF GUARDRAIL, EARTHWORKS SUMMARY, & ASPHALT PAVEMENT REMOVAL SUMMARY

3-D PARCEL INDEX SHEET

3G-1 GEOTECHNICAL SUMMARY TABLE

4 THRU 7 PLAN SHEETS

8 THRU 17 PROFILE SHEETS

TMP-1 THRU TMP-8 TRANSPORTATION MANAGEMENT PLANS

PMP-1 THRU PMP-5 PAVEMENT MARKING PLANS

EC-1 THRU EC-11 EROSION CONTROL PLANS

RF-1 REFORESTATION PLANS

SIGN-1 THRU SIGN-6 SIGNING PLANS

UC-1 THRU UC-9 UTILITIES PLANS
UO-1 THRU UO-5 UTILITY BY OTHER

X CROSS-SECTION INDEX SHEET

X-A CROSS-SECTION SUMMARY SHEET

X-1 THRU X-67 CROSS-SECTIONS
S-1 THRU S-26 STRUCTURE PLANS
W-1 THRU W-9 RETAINING WALL PLANS

GENERAL NOTES:

2012 SPECIFICATIONS

EFFECTIVE: 01-17-2012

REVISED: 10-31-2014

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.

GRADING:

THE GRADE LINES SHOWN DENOTE THE FINISHED ELEVATION OF THE PROPOSED OR FUTURE SURFACING AT GRADE POINTS SHOWN ON THE TYPICAL SECTIONS. GRADE LINES MAY BE ADJUSTED AT THEIR BEGINNING AND ENDING AND AT STRUCTURES AS DIRECTED BY THE ENGINEER IN ORDER TO SECURE A PROPER TIE-IN.

CLEARING:

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

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.

BERM DITCHES:

SERM DITCHES SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. NO. 240.01

AT LOCATIONS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

THE GUARDRAIL LOCATIONS SHOWN ON THE PLANS MAY BE ADJUSTED DURING

SUBSURFACE DRAINS:

SUBSURFACE DRAINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. NO. 815.02 AT LOCATIONS DIRECTED BY THE ENGINEER.

GUARDRAIL:

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 TOWN OF SPARTA - WATER &

SANITARY SEWER, BLUE RIDGE - EMC, POWER, SKYLINE - TELEPHONE/CABLE TV

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 CONTRACT.

ROCK:

ROCK IS ANTICIPATED BETWEEN -Y2- 13+00 - 14+50 RT, -Y2- 17+50 - 21+00 LT. BLASTING MAY BE REQUIRED FOR EXCAVATION ON THE PROJECT. SEE SECTION 220 OF THE STANDARD SPECIFICATIONS AND IF APPLICABLE, ROCK BLASTING PROVISION.

EFF. 01-17-2012 REV. 02-29-2016

2012 ROADWAY ENGLISH STANDARD DRAWINGS

862.01 Guardrail Placement

862.02 Guardrail Installation

876.02 Guide for Rip Rap at Pipe Outlets

862.04 Anchoring End of Guardrail - B-77 and B-83 Anchor Units

The following Roadway Standards as appear in "Roadway Standard Drawings" Highway Design Branch – N. C. Department of Transportation – Raleigh, N. C., Dated January, 2012 are applicable to this project and by reference hereby are considered a part of these plans:

```
STD.NO.
                           TITLE
DIVISION 2 - EARTHWORK
200.02 Method of Clearing - Method II
225.02 Guide for Grading Subgrade - Secondary and Local
225.04 Method of Obtaining Superelevation - Two Lane Pavement
225.06 Method of Grading Sight Distance at Intersections
240.01 Guide for Berm Ditch Construction
DIVISION 3 - PIPE CULVERTS
300.01 Method of Pipe Installation
310.10 Driveway Pipe Construction
DIVISION 4 - MAJOR STRUCTURES
422.10 Reinforced Bridge Approach Fills
DIVISION 5 - SUBGRADE, BASES AND SHOULDERS
560.01 Method of Shoulder Construction - High Side of Superelevated Curve - Method I
DIVISION 6 - ASPHALT BASES AND PAVEMENTS
654.01 Pavement Repairs
DIVISION 8 - INCIDENTALS
806.01 Concrete Right-of-Way Marker
806.02 Granite Right-of-Way Marker
815.02 Subsurface Drain
840.00 Concrete Base Pad for Drainage Structures
840.14 Concrete Drop Inlet - 12" thru 30" Pipe
840.15 Brick Drop Inlet - 12" thru 30" Pipe
840.16 Drop Inlet Frame and Grates - for use with Std. Dwg 840.14 and 840.15
840.17 Concrete Grated Drop Inlet Type 'A' - 12" thru 72" Pipe
840.18 Concrete Grated Drop Inlet Type 'B' - 12" thru 36" Pipe
840.24 Frames and Narrow Slot Sag Grates
840.25 Anchorage for Frames - Brick or Concrete or Precast
840.26 Brick Grated Drop Inlet Type 'A' - 12" thru 72" Pipe
840.27 Brick Grated Drop Inlet Type 'B' - 12" thru 36" Pipe
840.29 Frames and Narrow Slot Flat Grates
840.35 Traffic Bearing Grated Drop Inlet – for Cast Iron Double Frame and Grates
840.45 Precast Drainage Structure
840.66 Drainage Structure Steps
840.71 Concrete and Brick Pipe Plug
846.01 Concrete Curb, Gutter and Curb & Gutter
846.02 Drop Inlet Installation in Expressway Gutter
850.01 Concrete Paved Ditches
850.10 Guide for Berm Drainage Outlet - 15" and 18" Pipe
857.01 Precast Reinforced Concrete Barrier - 41" Single Faced
```

ay - Revised\r4060_ddc_sheet1A.dgn

28-JUN-2016 15:52 R:\R4060\Roadwau - Revised\r4060_dd