PROJECT REFERENCE NO.	SHEET NO.
<i>U-2579C</i>	/A

ROADWAY DESIGN ENGINEER

DOCUMENT NOT CONSIDERED FINAL **UNLESS ALL SIGNATURES COMPLETED**

GENERAL NOTES

GENERAL NOTES: 2012 SPECIFICATIONS EFFECTIVE: 01-17-2012 REVISED: 01-24-2017

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 METHOD III.

SUPERELEVATION:

ALL CURVES ON THIS PROJECT SHALL BE SUPERELEVATED IN ACCORDANCE WITH STD. NO. 225.04 OR 225.05 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.

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

BERM DITCHES:

BERM DITCHES SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. NO. 240.01 AT LOCATIONS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

UNDERDRAINS:

UNDERDRAINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. NO. 815.03 AT LOCATIONS DIRECTED BY THE ENGINEER.

SHOULDER DRAINS:

SHOULDER DRAINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. NO. 816.03 AND DETAILS IN PLANS AT LOCATIONS DIRECTED BY THE ENGINEER.

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 WILL BE PAID FOR AS "EXTRA WORK" IN ACCORDANCE WITH SECTION 104-7.

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 Winston-Salem/Forsyth County

Utilities Commission - Water/Sewer, Duke Energy Progress - Power Distribution

AT&T - Telephone, Century Link - Telephone, Time Warner Cable - Cable TV,

Piedmont Natural Gas

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 416+00 TO 417+00 AND 457+00 TO 459+00. BLASTING MAY BE REQUIRED FOR EXCAVATION ON THE PROJECT. SEE SECTION 220 OF THE STANDARD SPECIFICATIONS AND IF APPLICABLE, ROCK BLASTING PROVISION.

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STANDARD DRAWINGS

816.03

840.54

2012 ROADWAY ENGLISH STANDARD DRAWINGS

EFF. 01-17-2012

REV. 02-29-2016

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. DIVISION 2 - EARTHWORK 200.03 Method of Clearing - Method III Guide for Grading Subgrade - Interstate and Freeway Guide for Grading Subgrade - Secondary and Local Deceleration and Acceleration Lanes 225.04 Method of Obtaining Superelevation - Two Lane Pavement 225.05 Method of Obtaining Superelevation - Divided Highways 225.06 Method of Grading Sight Distance at Intersections 225.07 Grading for False Cut at Grade Separations 225.09 Guide for Shoulder and Ditch Transition at Grade Separations 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 6 - ASPHALT BASES AND PAVEMENTS 654.01 Payement Repairs 665.01 Asphalt Shoulders - Milled Rumble Strips DIVISION 8 - INCIDENTALS 806.01 Concrete Right-of-Way Marker Granite Right-of-Way Marker Pipe Underdrain and Blind Drain 816.01 Concrete Pads – for Shoulder Drain Installation 816.02 Aggregate Shoulder Drain

Markers for Drainage Structure and Concrete Pad Concrete Endwall for Single and Double Pipe Culverts - 15" thru 48" Pipe 90 Skew Brick Endwall for Single and Double Pipe Culverts - 15" thru 48" Pipe 90 Skew Reinforced Concrete Endwall - for Single 72" Pipe 90 Skew 838.39 838.45 Notes for Reinforced Concrete Endwall - Std. Dwg 838.21 thru 838.40

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

Concrete Drop Inlet – 12" thru 30" Pipe Brick Drop Inlet – 12" thru 30" Pipe Drop Inlet Frame and Grates - for use with Std. Dwg 840.14 and 840.15 840.16 Concrete Grated Drop Inlet Type 'A' - 12" thru 72" Pipe

Concrete Grated Drop Inlet Type 'B' - 12" thru 36" Pipe 840.18 840.19 Concrete Grated Drop Inlet Type 'D' - 12" thru 36" Pipe Frames and Wide Slot Flat Grates 840.20

Frames and Wide Slot Sag Grates 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

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840.28 Brick Grated Drop Inlet Type 'D' - 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 840.46 Traffic Bearing Precast Drainage Structure

840.66 Drainage Structure Steps Concrete and Brick Pipe Plug 840.71 840.72 Pipe Collar 846.01 Concrete Curb, Gutter and Curb & Gutter 846.02 Drop Inlet Installation in Expressway Gutter

Manhole Frame and Cover

846.04 Drop Inlet Installation in Shoulder Berm Gutter 850.10 Guide for Berm Drainage Outlet - 15" and 18" Pipe 850.11 Guide for Berm Drainage Outlet - 24" and 30" Pipe 852.01 Concrete Islands

852.06 Method for Placement of Drop Inlets in Concrete Islands 862.04 Anchoring End of Guardrail - B-77 and B-83 Anchor Units 866.02 Woven Wire Fence - with Wood Post

876.01 Rip Rap in Channels 876.02 Guide for Rip Rap at Pipe Outlets 876.04 Drainage Ditches with Class 'B' Rip Rap