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PROJECT REFERENCE NO. SHEET NO. R-4707 /A ROADWAY DESIGN

ENGINEER 034381

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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The following Roadway Standards as appear in "Roadway Standard Drawings" Highway Design Branch -N. C. Department of Transportation - Raleigh, N. C., Dated January, 2018 are applicable to this project and by reference hereby are considered a part of these plans: 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 Method of Obtaining Superelevation - Two Lane Pavement Method of Obtaining Superelevation - Divided Highways Guide for Shoulder and Ditch Transition at Grade Separations Guide for Berm Ditch Construction 240.01 275.01 Rock Plating DIVISION 3 - PIPE CULVERTS 300.01 Method of Pipe Installation

310.10 Driveway Pipe Construction DIVISION 5 - SUBGRADE, BASES AND SHOULDERS 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 DIVISION 6 - ASPHALT BASES AND PAVEMENTS 610.04 Guide for Paving Shoulders Under Bridges - Method IV Pavement Repairs 654.01

665.01 Asphalt Shoulders - Milled Rumble Strips DIVISION 8 - INCIDENTALS Concrete Contol of Access Marker 815.02 Subsurface Drain

816.01 Concrete Pads - for Shoulder Drain Installation 816.02 Aggregate Shoulder Drain Markers for Drainage Structure and Concrete Pad

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840.01 Brick Catch Basin – 12" thru 54" Pipe 840.02 Concrete Catch Basin - 12" thru 54" Pipe Frame, Grates and Hood - for Use on Standard Catch Basin Concrete Open Throat Catch Basin - 12" thru 48" Pipe 840.05 Brick Open Throat Catch Basin - 12" thru 48" Pipe 840.14 Concrete Drop Inlet - 12" thru 30" Pipe

Brick Drop Inlet – 12″ thru 30″ Pipe 840.15 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 840.19 Concrete Grated Drop Inlet Type 'D' - 12" thru 36" Pipe

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840.20 Frames and Wide Slot Flat Grates

840.29 Frames and Narrow Slot Flat Grates

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848.02 Driveway Turnout - Radius Type 848.04 Street Turnout 848.05 Curb Ramp - Proposed Curb & Gutter 850.01 Concrete Paved Ditches 850.10 Guide for Berm Drainage Outlet - 15" and 18" Pipe

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865.01 Cable Guiderail 866.02 Woven Wire Fence - with Wood Post

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EFF. 01-16-2018 REV.

2018 ROADWAY ENGLISH STANDARD DRAWINGS STD.NO. DIVISION 2 - EARTHWORK 225.04 225.05 225.09

STD. NO. 225.04 AND 225.05 USING THE RATE OF SUPERELEVATION AND RUNOFF SHOWN ON THE PLANS. SUPERELEVATION IS TO BE REVOLVED ABOUT THE GRADE POINTS SHOWN

SHOULDER CONSTRUCTION: ASPHALT, EARTH, AND CONCRETE SHOULDER CONSTRUCTION ON THE HIGH SIDE OF SUPERELEVATED CURVES SHALL BE IN ACCORDANCE WITH STD. NO. 560.01 AND 560.02.

2018 SPECIFICATIONS

THE GRADE LINES SHOWN DENOTE THE FINISHED ELEVATION OF THE PROPOSED SURFACING

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 PROPERER TIE-IN.

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

ALL CURVES ON THIS PROJECT SHALL BE SUPERELEVATED IN ACCORDANCE WITH

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

REVISED:

GRADING AND SURFACING OR RESURFACING AND WIDENING:

EFFECTIVE: 01-16-2018

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

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

SHOULDER DRAINS: SHOULDER DRAINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. NO. 816.02 AND DETAILS IN PLANS AT LOCATIONS DIRECTED BY THE ENGINEER.

DRIVEWAYS: DRIVEWAYS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. 848.02

USING 3 FOOT RADII OR RADII AS SHOWN ON THE PLANS, LOCATIONS OF DRIVES WILL BE AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. STREET TURNOUT:

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

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 CITY OF GREENSBORD, DUKE ENERGY, PIEDMONT NATURAL GAS, CENTURY LINK, AT&T, AND CHARTER. 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.

CURB RAMPS

GENERAL NOTES:

CLEARING:

SUPERELEVATION:

BERM DITCHES:

GUARDRAIL:

METHOD III.

ON THE TYPICAL SECTIONS.

CURB RAMPS ARE SHOWN ON THE PLANS AT APPROXIMATE LOCATIONS. CONSTRUCT ALL CURB RAMPS ACCORDANCE WITH STD. 848.05 and/or 848.06.

ROCK

ROCK IS ANTICIPATED BETWEEN -RPB- STA. 33+75 - 34+25 AND -Y2- STA. 12+25 - 14+25. BLASTING MAY BE REQUIRED FOR EXCAVATION ON THE PROJECT. SEE SECTION 220 OF THE STANDARD SPECIFICATIONS AND IF APPLICABLE, ROCK BLASTING PROVISION.