
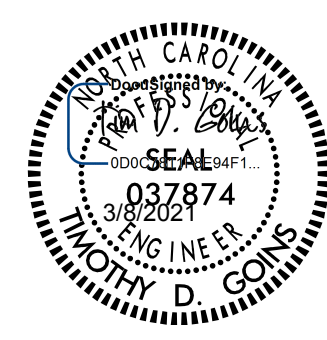


PROJECT REFERENCE NO. <i>BR-0011</i>	SHEET NO. <i>1A</i>
 VHB Engineering NC, P.C. (C-3705) 940 Main Campus Drive, Suite 500 Raleigh, NC 27605	ROADWAY DESIGN ENGINEER 
	<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>

	INDEX OF SHEETS	EFF. 01-16-2018 REV.
SHEET NUMBER	SHEET	2018 ROADWAY ENGLISH STANDARD DRAWINGS
1	TITLE SHEET	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:
1A	INDEX OF SHEETS, GENERAL NOTES, AND STANDARD DRAWINGS	
1B	CONVENTIONAL SYMBOLS	STD.NO. TITLE
2A-1 THRU 2A-2	PAVEMENT SCHEDULE AND TYPICAL SECTIONS	DIVISION 2 - EARTHWORK
2C-1 THRU 2C-2	GUARDRAIL INSTALLATION DETAIL AND STRUCTURE ANCHOR UNITS DETAIL	200.02 Method of Clearing - Method II
2G-1 THRU 2G-4	STANDARD TEMPORARY WALL AND TEMPORARY SHORING DETAILS	225.02 Guide for Grading Subgrade - Secondary and Local
3B-1	EARTHWORK SUMMARY, REMOVAL OF EXISTING PAVEMENT, SHOULDER BERM GUTTER, GUARDRAIL SUMMARY	225.04 Method of Obtaining Superelevation - Two Lane Pavement
3D-1	DRAINAGE SUMMARIES	DIVISION 3 - PIPE CULVERTS
3G-1	GEOTECHNICAL SUMMARIES	300.01 Method of Pipe Installation
4 THRU 6	PLAN AND PROFILE SHEETS	DIVISION 4 - MAJOR STRUCTURES
RW01 THRU RW04	RIGHT OF WAY PLANS	422.02 Bridge Approach Fills - Type II Modified Approach Fill
TMP-1 THRU TMP-5	TRAFFIC MANAGEMENT PLANS	DIVISION 5 - SUBGRADE, BASES AND SHOULDERS
PMP-1 THRU PMP-2	PAVEMENT MARKING PLANS	560.01 Method of Shoulder Construction - High Side of Superelevated Curve - Method I
EC-1 THRU EC-6	EROSION CONTROL PLANS	DIVISION 8 - INCIDENTALS
RF-1	REFORESTATION PLANS	815.02 Subsurface Drain
UC-1 THRU UC-4	UTILITY CONSTRUCTION PLANS	838.01 Concrete End Wall for Single and Double Pipe Culverts
UD-1 THRU UD-2	UTILITIES BY OTHERS PLANS	838.11 Brick Endwall for Single and Double Pipe Culverts
X-1A	CROSS-SECTION SUMMARY SHEET	838.80 Precast Concrete Endwall
X-1 THRU X- 8	CROSS-SECTIONS	840.00 Concrete Base Pad for Drainage Structures
S-1 THRU S- 15	STRUCTURE PLANS	840.04 Concrete Open Throat Catch Basin
		840.05 Brick Open Throat Catch Basin
		840.25 Anchorage for Frames
		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
		840.46 Traffic Bearing Precast Drainage Structure
		840.66 Drainage Structure Steps
		840.72 Pipe Collar
		846.04 Drop Inlet Installation in Shoulder Berm Gutter
		862.01 Guardrail Placement
		862.02 Guardrail Installation
		862.03 Structure Anchor Units (Special Detail for Type III Anchor Units Sheets 1 of 7 and 2 of 7)
		876.01 Rip Rap in Channels
		876.02 Guide for Rip Rap at Pipe Outlets

GENERAL NOTES: 2018 SPECIFICATIONS  
EFFECTIVE: 01-16-2018  
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 II.

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.

SUBSURFACE DRAINS:  
SUBSURFACE DRAINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. NO. 815.02 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 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  
Power Distribution - Town of Murphy, Telecom - Frontier  
Telecom - Cable TV  
Water/ sewer - Town of Murphy  
ANY RELOCATION OF EXISTING UTILITIES WILL BE ACCOMPLISHED BY OTHERS, EXCEPT AS SHOWN ON THE PLANS.

RIGHT OF WAY:  
RIGHT OF WAY MARKERS BY OTHERS