



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

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

2012 ROADWAY ENGLISH STANDARD DRAWINGS

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:

SHEET NUMBER	INDEX OF SHEETS R-2915C
1	TITLE SHEET
1A	INDEX OF SHEETS
1B	CONVENTIONAL SYMBOLS
1C-1 THRU 1C-5	SURVEY CONTROL SHEETS
1D-1	CENTERLINE COORDINATE LIST
1F	SURVEY CONTROLS SHEET (ROW MARKERS)
2A-1 THRU 2A-4	PAVEMENT SCHEDULE, TYPICAL SECTIONS, AND WEDGING DETAILS
2B-1 THRU 2B-4	L DETOUR (PLAN/PROFILE)
2B-5 THRU 2B-6	L CROSS OVERTS (PLAN/PROFILE)
2B-7	L DETOUR 2 (PLAN)
2B-8 THRU 2B-13	INTERSECTION DETAILS
2B-14	DETAIL SHOWING TEMPORARY SHORING LOCATIONS
2C-1	STRUCTURE ACHOR UNIT
2C-2	DETAIL OF 2'-9" TO FRAME AND GRATE
2C-3	GUIDE FOR BERM DRAINAGE OUTLET 36" PIPE
2C-4	DETAIL TO CONVERT EXISTING DI TO 3-GI
2C-5	DETAIL OF REINFORCED CONCRETE ENDWALL FOR 84" DIAMETER PIPE WITH CONCRETE SILL
2C-6	DETAIL TO CONVERT EXISTING DI, CB, OTCB, OR GI TO JUNCTION BOX(MANHOLE OPTIONAL)
2C-7	DETAIL TO CONVERT EXISTING CATCH BASIN OR JUNCTION BOX TO DI OR 2-GI
2C-8	DETAIL TO CONVERT EXISTING TBJB TO TB2-GI
2C-9	CHAIN LINK FENCE WITH BARBED WIRE 8'
2C-10	TRAFFIC BEARING DROP INLET TYPE "A"
2C-11	SPECIAL TRAFFIC BEARING JUNCTION BOX
2C-12	SPECIAL JUNCTION BOX
2C-13	TRAFFIC BEARING GRATED DROP INLET
2C-14	DETAIL TO CONVERT EXISTING TRAFFIC BEARING DROP INLET OR CATCH BASIN TO TRAFFIC BEARING JUNCTION BOX(MANHOLE OPTIONAL)
2D-1 THRU 2D-2	DRAINAGE DETAILS, PREFORMED SCOUR HOLE DETAIL
2G-1	STANDARD TEMPORARY WALL SHEET 1 OF 3 (SEE TRAFFIC MANAGEMENT PLANS)
2G-2	STANDARD TEMPORARY WALL SHEET 2 OF 3 (SEE TRAFFIC MANAGEMENT PLANS)
2G-3	STANDARD TEMPORARY WALL SHEET 3 OF 3 (SEE TRAFFIC MANAGEMENT PLANS)
2G-4	ROCK BUTTRESS AND TOE BENCHING DETAILS
2G-5	ROCK PLATING DETAIL
2H-1	STOCKPILE CONTAINMENT DETAIL
3B-1	EARTHWORK SUMMARY
3B-2	47" WIRE WOVEN FENCE SUMMARY, CHAIN LINK FENCE 96" FABRIC W/ 3-STRAND BW SUMMARY, SUMMARY OF REMOVAL EXISTING ASPHALT PAVEMENT, SUMMARY OF BREAKING EXISTING ASPHALT PAVEMENT, 5" MONOLITHIC ISLANDS(KEYED IN), SHOULDER BERM GUTTER SUMMARY, EXPRESSWAY GUTTER SUMMARY, TEMPORARY 4 STRAND BARBED WIRE FENCE SUMMARY
3B-3	GUARDRAIL SUMMARY
3D-1 THRU 3D-11	LIST OF PIPES, ENDWALLS, ETC.(FOR PIPES 48" AND UNDER)
3D-12	LIST OF PIPES, ENDWALLS, ETC.(FOR PIPES 54" AND OVER)
3G-1	SUMMARY OF SURFACE DRAINAGE, GEOTEXTILE FOR PAVEMENT STABILIZATION, AGGREGATE SUBGRADE STABILIZATION, MISCELLANEOUS GEOTECH ITEMS
3P-1 THRU 3P-2	PARCEL INDEX
4 THRU 23	PLAN SHEETS
24 THRU 40	PROFILE SHEETS
TMP-1 THRU TMP-89	TRAFFIC MANAGEMENT PLANS
PMP-1 THRU PMP-18	PAVEMENT MARKING PLANS
EC-1 THRU EC-43	EROSION CONTROL PLANS
RF-1 THRU RF-3	REFORESTATION PLANS
SIGN-1 THRU SIGN-12	SIGNING PLANS
UO-1 THRU UO-20	UTILITY BY OTHERS PLANS
X-A	CROSS-SECTIONS INDEX SHEET (PART 1 OF 3)
X-B THRU X-F	CROSS-SECTIONS EARTHWORK VOLUME SUMMARIES
X-G	CROSS-SECTIONS INDEX SHEET (PART 2 OF 3)
X-H	CROSS-SECTIONS INDEX SHEET (PART 3 OF 3)
X-1 THRU X-883	CROSS-SECTIONS
C-1 THRU C-12	CULVERT PLANS
W-1 THRU W-9	RETAINING WALL PLANS

STD.NO.	TITLE
DIVISION 2 - EARTHWORK	
200.03	Method of Clearing - Method III
225.01	Guide for Grading Subgrade - Interstate and Freeway
225.02	Guide for Grading Subgrade - Secondary and Local
225.04	Method of Obtaining Super-elevation - Two Lane Pavement
225.05	Method of Obtaining Super-elevation - Divided Highways
240.01	Guide for Berm Ditch Construction
DIVISION 3 - PIPE CULVERTS	
300.01	Method of Pipe Installation
310.02	Parallel Pipe End Section - Precast Concrete Section for 15" to 24" Pipe
310.10	Driveway Pipe Construction
DIVISION 5 - SUBGRADE, BASES AND SHOULDERS	
560.01	Method of Shoulder Construction - High Side of Super-elevated Curve - Method I
560.02	Method of Shoulder Construction - High Side of Super-elevated Curve - Method II (Sheet 2 of 3 is no longer applicable)
DIVISION 6 - ASPHALT BASES AND PAVEMENTS	
654.01	Pavement Repairs
DIVISION 8 - INCIDENTALS	
815.02	Subsurface Drain
838.01	Concrete Endwall for Single and Double Pipe Culverts - 15" thru 48" Pipe 90 Skew
838.11	Brick Endwall for Single and Double Pipe Culverts - 15" thru 48" Pipe 90 Skew
838.27	Reinforced Concrete Endwall - for Single 60" Pipe 90 Skew
838.45	Notes for Reinforced Concrete Endwall - Std. Dwg 838.21 thru 838.40
838.57	Reinforced Brick Endwall - for Single 60" Pipe 90 Skew
838.75	Notes for Reinforced Brick Endwall - Std. Dwg 838.51 thru 838.70
838.80	Precast Endwalls - 12" thru 72" Pipe 90 Skew
840.00	Concrete Base Pad for Drainage Structures
840.04	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
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
840.19	Concrete Grated Drop Inlet Type 'D' - 12" thru 36" Pipe
840.20	Frames and Wide Slot Flat Grates
840.22	Frames and Wide 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
840.28	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
840.34	Traffic Bearing Junction Box - for Use with Pipes 42" and Under
840.35	Traffic Bearing Grated Drop Inlet - for Cast Iron Double Frame and Grates
840.41	Spring Box - Concrete or Brick
840.45	Precast Drainage Structure
840.46	Traffic Bearing 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
846.02	Drop Inlet Installation in Expressway Gutter
846.04	Drop Inlet Installation in Shoulder Berm Gutter
850.01	Concrete Paved Ditches
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
857.01	Precast Reinforced Concrete Barrier - 41" Single Faced
862.01	Guardrail Placement
862.02	Guardrail Installation
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

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.

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 & STD. NO. 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.

SHOULDER CONSTRUCTION:

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

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:

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.

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".

UTILITIES:

UTILITY OWNERS ON THIS PROJECT ARE

Blue Ridge EMC, Skyline Telephone, and Ashe County Cable

RIGHT-OF-WAY MARKERS:

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

ROCK:

ROCK IS ANTICIPATED BETWEEN -L 257+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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