



8/17/09

SHEET NUMBER	SHEET	INDEX OF SHEETS
1	TITLE SHEET	2012 ROADWAY ENGLISH STANDARD DRAWINGS
1A	INDEX OF SHEETS, GENERAL NOTES, AND LIST OF 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:
1B	CONVENTIONAL SYMBOLS	STD.NO. TITLE
1C-1 THRU 1C-6	SURVEY CONTROL SHEETS	DIVISION 2 - EARTHWORK
2A-1 THRU 2A-4	TYPICAL SECTIONS, PAVEMENT SCHEDULE, AND WEDGING DETAILS	200.03 Method of Clearing - Method III 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
2B-1	TRAFFIC DIAGRAM	DIVISION 3 - PIPE CULVERTS
2C-1	DETAIL OF CONCRETE ENDWALL AND SLUICE GATE	300.01 Method of Pipe Installation 310.10 Driveway Pipe Construction
2C-2	DETAIL OF TRAFFIC BEARING JUNCTION BOX	DIVISION 5 - SUBGRADE, BASES AND SHOULDERS
2C-3	DETAIL TO CONVERT EXISTING DI, CB, DTCB OR GI TO JUNCTION BOX	560.01 Method of Shoulder Construction - High Side of Superelevated Curve - Method I
2C-4	DETAIL TO CONVERT EXISTING CATCH BASIN OR JUNCTION BOX TO DI OR 2-GI	DIVISION 6 - ASPHALT BASES AND PAVEMENTS
2C-5	DETAIL OF CURB RAMPS (MEDIAN OR TURN LANE ISLANDS)	654.01 Pavement Repairs
2C-6	DETAIL OF COAL COMBUSTION PRODUCT PLACEMENT	DIVISION 8 - INCIDENTALS
2G-1 THRU 2G-3	STANDARD TEMPORARY WALL DETAILS	815.03 Pipe Underdrain and Blind Drain 838.01 Concrete Endwall for Single and Double Pipe Culverts - 15" thru 48" Pipe 90 Skew 838.02 Concrete Endwall and Sluice Gate - 15" thru 36" Pipe 90 Skew 838.11 Brick Endwall for Single and Double Pipe Culverts - 15" thru 48" Pipe 90 Skew 838.21 Reinforced Concrete Endwall - for Single 54" Pipe 90 Skew 838.27 Reinforced Concrete Endwall - for Single 60" Pipe 90 Skew 838.51 Reinforced Brick Endwall - for Single 54" Pipe 90 Skew 838.57 Reinforced Brick Endwall - for Single 60" Pipe 90 Skew
2H-1	DETAIL FOR TEMPORARY CONTAINMENT OF CONTAMINATED SOIL	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 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 840.31 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 840.45 Precast Drainage Structure 840.46 Traffic Bearing Precast Drainage Structure 840.54 Manhole Frame and Cover 840.66 Drainage Structure Steps 840.72 Pipe Collar 846.01 Concrete Curb, Gutter and Curb & Gutter 848.01 Concrete Sidewalk 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 852.01 Concrete Islands 852.05 Median Curb for Catch Basin - for Use with 1'-6" Curb and Gutter 852.06 Method for Placement of Drop Inlets in Concrete Islands 862.01 Guardrail Placement 862.02 Guardrail Installation 862.03 Structure Anchor Units 876.01 Rip Rap in Channels 876.02 Guide for Rip Rap at Pipe Outlets 876.04 Drainage Ditches with Class 'B' Rip Rap
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GENERAL NOTES: EFFECTIVE: 01-17-12
2012 SPECIFICATIONS
REVISED: 07/30/12

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 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.

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

DRIVEWAYS:
DRIVEWAYS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. 848.02 USING 3' RADIUS OR RADIUS 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 RADIUS NOTED ON PLANS.

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 DUKE ENERGY - POWER TRANSMISSION, DUKE ENERGY - POWER DISTRIBUTION, AT&T TELECOMMUNICATIONS, PSNC - NATURAL GAS, CATV - CHARTER / TIME WARNER CABLE, CITY OF MOUNT HOLLY WATER, AND CITY OF MOUNT HOLLY SANITARY SEWER.
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:
CURB RAMPS ARE SHOWN ON THE PLANS AT APPROXIMATE LOCATIONS.
CONSTRUCT ALL CURB RAMPS ACCORDANCE WITH STD. 848.05 AND/OR 848.06.

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