8/17/99

PROJECT REFERENCE NO.	SHEET NO.
R-2514B/R-2514C	1A

ROADWAY DESIGN ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 033871 ENGINEER DANIEL W. GARDNER

4/2/2015

DocuSigned by: David W. Gardner, Jr.

INDEX OF SHEETS

SHEET NUMBER	SHEET
1	TITLE SHEET
1A	INDEX OF SHEETS, GENERAL NOTES, AND LIST OF STANDARD DRAWINGS
1B	CONVENTIONAL SYMBOLS

PART I - R-2514B

INDEX OF SHEETS

SHEET NUMBER	SHEET
1	TITLE SHEET (R-2514B)
1C-1 THRU 1C-7	SURVEY CONTROL SHEETS
1D-1	CENTERLINE COORDINATE LIST
2A-1 THRU 2A-5	PAVEMENT SCHEDULE AND TYPICAL SECTIONS
2A-6	BRIDGE TYPICALS
2C-1	STRUCTURE ANCHOR UNIT, TYPE B-77 FOR F-SHAPE BARRIER
2C-2	REINFORCED CONCRETE ENDWALL FOR 84" PIPE-90 SKEW
2C-3	STRUCTURE ANCHOR UNIT, TYPE III
2C-4	COAL COMBUSTION PRODUCT PLACEMENT DETAIL
2G-1	DETAILS FOR GEOTEXTILE FOR EMBANKMENT STABILIZATION AT -Y2- BRIDGE APPROACHES
2G-2	DETAILS FOR GEOTEXTILE FOR EMBANKMENT STABILIZATION AT -Y3- END BENT 1 APPROACH
2G-3	GEOTECHNICAL DETAILS - STANDARD ROCK PLATING
3B-1	EARTHWORK SUMMARY
3B-2	ASPHALT PAVEMENT REMOVAL, CABLE GUIDERAIL, SHOULDER BERM GUTTER SUMMARIES, AND SUMMARY OF BREAKING EXISTING ASPHALT PAVEMENT
3B-3	GUARDRAIL SUMMARY, WOVEN WIRE FENCE SUMMARY, AND CHAIN LINK FENCE (WILDLIFE FENCE) SUMMARY
3D-1 THRU 3D-8	DRAINAGE SUMMARIES
3G-1	GEOTECHNICAL SUMMARIES
3P-1	PARCEL INDEX SHEET
4 THRU 23	PLAN SHEETS
24 THRU 42	PROFILE SHEETS
TMP-1 THRU TMP-48A	TRANSPORTATION MANAGEMENT PLANS (R-2514B/C)
PMP-1 THRU PMP-23	PAVEMENT MARKING PLANS (R-2514B/C)
EC-1 THRU EC-44	EROSION CONTROL PLANS
RF-1 THRU RF-3	REFORESTATION PLANS
SIGN-1 THRU SIGN-24	SIGNING PLANS (R-2514B/C)
UC-1 THRU UC-18	UTILITY CONSTRUCTION PLANS
UO-1 THRU UO-15	UTILITIES BY OTHERS PLANS
X-1	CROSS-SECTION INDEX
X-1A THRU X-1C	CROSS-SECTION VOLUME SUMMARY SHEETS
X-2 THRU X-161	CROSS-SECTIONS
S1-001 THRU S1-031	STRUCTURE PLANS
S2-001 THRU S2-034	STRUCTURE PLANS
S3-001 THRU S3-034	STRUCTURE PLANS
S4-001 THRU S4-075	STRUCTURE PLANS
S5-001 THRU S5-075	STRUCTURE PLANS
S6-001 THRU S6-036	STRUCTURE PLANS

PART II - R-2514C

INDEX OF SHEETS

SHEET NUMBER	SHEET
1	TITLE SHEET (R-2514C)
1C-1 THRU 1C-7	SURVEY CONTROL SHEETS
1D-1 THRU 1D-2	CENTERLINE COORDINATE LIST
2A-1 THRU 2A-4	PAVEMENT SCHEDULE AND TYPICAL SECTIONS
2A-5	DRIVEWAY GRADE DETAILS
2C-1	WILDLIFE FENCE DETAIL
2C-2	STRUCTURE ANCHOR UNIT, TYPE B-77 FOR F-SHAPE BARRIER
2C-3	SPECIAL JUNCTION BOX DETAIL-48" PIPE
2C-4	SPECIAL JUNCTION BOX DETAIL-72" PIPE
2C-5	METHOD OF CLEARING IN HEAVY WOODED AREAS FOR C/A FENCE LOCATIONS
2C-6	COAL COMBUSTION PRODUCT PLACEMENT DETAIL
2G-1 THRU 2G-3	TEMPORARY SHORING DETAIL
2G-4	TEMPORARY CONTAINMENT OF CONTAMINATED SOIL DETAIL
3B-1 THRU 3B-2	EARTHWORK SUMMARY
3B-3	GUARDRAIL, WOVEN WIRE FENCE, AND CHAIN LINK FENCE (WILDLIFE FENCE) SUMMARIES
3B-4	ASPHALT PAVEMENT REMOVAL, SHOULDER BERM GUTTER SUMMARIES, AND SUMMARY OF BREAKING EXISTING ASPHALT PAVEMENT
3D-1 THRU 3D-9	DRAINAGE SUMMARIES
3G-1	GEOTECHNICAL SUMMARIES
3P-1 THRU 3P-2	PARCEL INDEX SHEET
4 THRU 28	PLAN SHEETS
29 THRU 45	PROFILE SHEETS
EC-1 THRU EC-53	EROSION CONTROL PLANS
RF-1 THRU RF-3	REFORESTATION PLANS
UC-1 THRU UC-36	UTILITY CONSTRUCTION PLANS
UO-1 THRU UO-23	UTILITIES BY OTHERS PLANS
X-1	CROSS-SECTION INDEX
X-1A THRU X-1G	CROSS-SECTION VOLUME SUMMARY SHEETS
X-2 THRU X-145	CROSS-SECTIONS
S-1 THRU S-56	STRUCTURE PLANS

GENERAL NOTES:

2012 SPECIFICATIONS
EFFECTIVE: 01-17-2012
REVISED: 07-30-2012

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 AND 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 AND 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.

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 JONES COUNTY, ONWASA.

DUKE ENERGY PROGRESS - POWER, JONES - ONSLOW EMC - POWER

CENTURYLINK - TELEPHONE AND FIBER OPTIC

TIME WARNER - CATV

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.

EFF. 01-17-2012
REV. 10-30-2012

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:

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
225.03	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
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 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 (Sheet 2 of 3 is no longer applicable)
DIVISION 6 - ASPHALT BASES AND PAVEMENTS	
610.03	Guide for Paving Shoulders Under Bridges - Method III
654.01	Pavement Repairs
665.01	Asphalt Shoulders - Milled Rumble Strips
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
838.21	Reinforced Concrete Endwall - for Single 54" Pipe 90 Skew
838.27	Reinforced Concrete Endwall - for Single 60" Pipe 90 Skew
838.39	Reinforced Concrete Endwall - for Single 72" Pipe 90 Skew
838.45	Notes for Reinforced Concrete Endwall - Std. Dwg 838.21 thru 838.40
838.51	Reinforced Brick Endwall - for Single 54" Pipe 90 Skew
838.57	Reinforced Brick Endwall - for Single 60" Pipe 90 Skew
838.69	Reinforced Brick Endwall - for Single 72" 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
840.14	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
840.45	Precast Drainage Structure
840.66	Drainage Structure Steps
840.72	Pipe Collar
846.01	Concrete Curb, Gutter and Curb & Gutter
846.04	Drop Inlet Installation in Shoulder Berm Gutter
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
865.01	Cable Guiderail
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

02-APR-2015 10:19
C:\Projects\DOT\R2514BC_Rdy_tsh.dgn
$$USERNAME$$