

INDEX OF SHEETS

<u>SHEET NUMBER</u>	<u>SHEET</u>
1	TITLE SHEET - R0513/R0513BA
1-A	INDEX OF SHEETS, LIST OF STANDARDS, AND GENERAL NOTES - R0513/R0513BA
3	SUMMARY OF QUANTITIES (R0513A/R0513BA)
<u>R0513A</u>	
1	TITLE SHEET - R0513A
1-B	CONVENTIONAL SYMBOLS
1-C THRU 1-D	CENTERLINE COORDINATE LIST
2 THRU 2-F	TYPICAL SECTIONS AND PAVEMENT SCHEDULE
2-G THRU 2-J	SHEAR POINT LAYOUT DRAWINGS
2-K THRU 2-N	TEMPORARY CROSSEOVERS - X1, X2, X3
2-O	DITCH DETAILS
2-P	SHOULDER DRAIN DETAILS
2-Q THRU 2-R	PLAN SHEET FOR -TEMPY1-
2-S	GUIDE FOR GRADING SUBGRADE DETAIL
2-T THRU 2-U	REINFORCED BRIDGE APPROACH FILLS DETAIL
2-V	DETAIL FOR CONCRETE BRIDGE APPROACH DROP INLET DETAIL
2-W	DROP INLET INSTALLATION IN EXPRESSWAY GUTTER
2-X THRU 2-AA	GUARDRAIL INSTALLATION DETAIL
2-BB THRU 2-CC	STRUCTURE ANCHOR UNITS DETAIL
2-DD THRU 2-II	CABLE GUIDERAIL DETAIL
2-JJ	DETAIL OF 14.0M MEDIAN GUIDERAIL TRANSITIONS WITH SUPERELEVATION AND/OR FALSE SUMPS
2-KK	DETAIL OF PLANS FOR EMBANKMENT MONITORING
3-A THRU 3-G	SUMMARY OF DRAINAGE QUANTITIES
3-H	SUMMARY OF GUARDRAIL
3-I	EARTHWORK SUMMARY--SHOULDER BERM GUTTER
3-J	SUMMARY OF CABLE GUIDERAIL
3-K	SHOULDER DRAIN SUMMARY, REMOVAL OF EXISTING ASPHALT SUMMARY, BREAKING OF EXISTING ASPHALT SUMMARY
3-K	PARCEL INDEX
4 THRU 29	PLAN SHEETS
30 THRU 70	PROFILE SHEETS
TCP-1 THRU TCP-37	TRAFFIC CONTROL PLANS (R-0513A/R0513BA)
PM-1 THRU PM-17	PAVEMENT MARKING PLANS (R-0513A/R-0513BA)
EC-1 THRU EC-53	EROSION CONTROL PLANS (R-0513A/R-0513BA)
RF-1	REFORESTATION
SIGN-1 THRU SIGN-39	SIGNING PLANS (R-0513A/R-0513BA)
SIG-1 THRU SIG-4	SIGNAL PLANS
UC-1 THRU UC-16	UTILITY CONSTRUCTION PLANS (R-0513A/R-0513BA)
UO-1 THRU UO-13	UTILITIES BY OTHERS (R-0513A)
<u>R-0513BA</u>	
1	TITLE SHEET (R-0513BA)
1-B	CONVENTIONAL SYMBOLS
1-C THRU 1-D	CENTERLINE COORDINATE LIST
2 THRU 2-C	TYPICAL SECTIONS AND PAVEMENT SCHEDULE
2-D THRU 2-F	SHEAR DRAWINGS
2-G	DITCH DETAILS
2-H	GUIDE FOR GRADING SUBGRADE
2-I THRU 2-J	REINFORCED BRIDGE APPROACH FILLS DETAIL
2-K	DETAIL FOR CONCRETE BRIDGE APPROACH DROP INLET
2-L THRU 2-O	GUARDRAIL INSTALLATION DETAIL
2-P THRU 2-Q	STRUCTURE ANCHOR UNITS
2-R THRU 2-W	CABLE GUIDERAIL
2-X	DETAIL FOR 14.0M MEDIAN GUIDERAIL TRANSITIONS WITH SUPERELEVATION AND/OR FALSE SUMPS
2-Y THRU 2-Z	DETAILS FOR EMBANKMENT CONSTRUCTION
3-A THRU 3-G	SUMMARY OF DRAINAGE QUANTITIES
3-H	SUMMARY OF GUARDRAIL
3-I	EARTHWORK SUMMARY
3-J	SHOULDER DRAIN SUMMARY, SHOULDER BERM GUTTER SUMMARY, PAVEMENT REMOVAL SUMMARY, CABLE GUIDELINES SUMMARY
3-K	PARCEL INDEX
4 THRU 26	PLAN SHEETS
27 THRU 47	PROFILE SHEETS
EC-1 THRU EC-53	EROSION CONTROL
RF-1	REFORESTATION
UO-1 THRU UO-9	UTILITIES BY OTHERS PLANS (R-0513BA)

R0513A/R-0513BA

X-O	CROSS SECTION SUMMARY SHEET (R-0513A)
X-A THRU X-G	CROSS SECTION VOLUME SHEETS (R-0513A)
X-1 THRU X-185	CROSS SECTIONS (R-0513A)
X-O	CROSS SECTION TITLE SHEETS (R-0513A)
X-A THRU X-C	CROSS SECTION SUMMARY SHEET (R-0513A)
X-1 THRU X-119	CROSS SECTIONS (R-0513A)
C-1 THRU C-24	CULVERT PLANS (R-0513A/R-0513BA)
S-1 THRU S-172	STRUCTURE PLANS (R-0513A/R-0513BA)

GENERAL NOTES:

2002 SPECIFICATIONS
EFFECTIVE: 01-15-02

GRADE LINE:

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 EXCEPT WITHIN WETLANDS, THEN CLEAR ONLY 5 FEET BEYOND SLOPE STAKES.

SUPERELEVATION:

ALL CURVES ON THIS PROJECT SHALL BE SUPERELEVATED IN ACCORDANCE WITH STD. NO. 225.04 OR 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 AND EARTH 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.

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 DETAILS IN PLANS AT LOCATIONS SHOWN ON PLANS OR AS 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.

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 :

PROGRESS ENERGY, LUMBEE RIVER EMC, SPRINT, BELL SOUTH,
MCI WORLD COM, CAROLINA CABLE PARTNERS

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 (STATE FORCES).

EFF. 01-15-02

ROADWAY METRIC 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 15, 2002 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
225.02	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
225.08	Earth Berm Median Pier Protection
225.09	Guide for Shoulder and Ditch Transition at Grade Separations

DIVISION 3 - PIPE CULVERTS

300.01	Method of Pipe Installation - Method 'A'
310.02	Parallel Pipe End Section - Precast Concrete Section for 375mm to 600mm Pipe
310.10	Driveway Pipe Construction

DIVISION 5 - SUBGRADE, BASES AND SHOULDERS

560.01	Method of Shoulder Construction - High Side of Superelevated Curve - Method I
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DIVISION 6 - ASPHALT BASES AND PAVEMENTS

610.03	Guide for Paving Shoulders Under Bridges - Method III
665.01	Milled Rumble Strips - Asphalt Pavements

DIVISION 8 - INCIDENTALS

815.03	Pipe Underdrain and Blind Drain
816.01	Concrete Pads - for Shoulder Drain Installation
816.02	Aggregate Shoulder Drain
816.04	Markers for Drainage Structure and Concrete Pad
820.04	Drain Installation in Shoulder Berm Gutter
838.01	Conc. Endwall for Single and Double Pipe Culverts - 375mm thru 1200mm Pipe 90° Skew
838.11	Brick Endwall for Single and Double Pipe Culverts - 375mm thru 1200mm Pipe 90° Skew
838.22	Reinforced Concrete Endwall - for Double and Triple 1350mm/1400mm Pipes 90° Skew
838.45	Notes for Reinforced Concrete Endwall - Std. Dwg.s 838.21 thru 838.40
838.52	Reinforced Brick Endwall - for Double and Triple 1350mm/1400mm Pipes 90° Skew
838.75	Notes for Reinforced Brick Endwall - Std. Dwg.s 838.51 thru 838.70
838.80	Precast Endwalls - 300mm thru 1800mm Pipe 90° Skew
840.00	Concrete Base Pad for Drainage Structures
840.01	Brick Catch Basin - 300mm thru 1350mm Pipe
840.02	Concrete Catch Basin - 300mm thru 1350mm Pipe
840.03	Frame, Grates and Hood - for Use on Standard Catch Basin
840.14	Concrete Drop Inlet - 300mm thru 750mm Pipe
840.15	Brick Drop Inlet - 300mm thru 750mm Pipe
840.16	Drop Inlet Frame and Grates - for use with Std. Dwg.s 840.14 and 840.15
840.17	Concrete Median Drop Inlet Type 'A' - 300mm thru 1800mm Pipe
840.18	Concrete Median Drop Inlet Type 'B' - 300mm thru 900mm Pipe
840.19	Concrete Median Drop Inlet Type 'D' - 300mm thru 900mm Pipe
840.20	Frames and Wide Slot Flat Grates
840.22	Frames and Wide Slot Sag Grates
840.24	Frames and Narrow Slot Sag Grates
840.25	Anchorage for Frames - Brick or Concrete
840.26	Brick Median Drop Inlet Type 'A' - 300mm thru 1800mm Pipe
840.27	Brick Median Drop Inlet Type 'B' - 300mm thru 900mm Pipe
840.28	Brick Median Drop Inlet Type 'D' - 300mm thru 900mm Pipe
840.29	Frames and Narrow Slot Flat Grates
840.31	Concrete Junction Box - 300mm thru 1650mm Pipe
840.32	Brick Junction Box - 300mm thru 1650mm Pipe
840.35	Traffic Bearing 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

