

9/05/99

PROJECT NO. R-2610A

SHEET NUMBER	SHEET
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1-A	INDEX OF SHEETS, GENERAL NOTES AND LIST OF ROADWAY STANDARDS
1-B	CONVENTIONAL SYMBOLS
2 to 2-C	TYPICAL SECTIONS, PAVEMENT SCHEDULE, WEDGING DETAILS, SHOULDER DRAIN DETAIL, AND DETAIL OF GRADE POINT UNDERCUT
2-D	-L- AND -Y3REV- INTERSECTION DETAILS
2-E	-L-, -Y4- AND -Y5- INTERSECTION DETAILS
2-F	-L-, -Y7- AND -Y7A- INTERSECTION DETAILS
2-G	-L-, -Y9- AND -Y7B- INTERSECTION DETAILS
2-H to 2-I	PROPOSED DITCH DETAILS
2-J	STREAM RESTORATION DETAILS
2-K	DETAIL OF RIP-RAPPED ENERGY DISSIPATOR BASIN
2-L	FENCE DETAIL AT SR 1010 INTERCHANGE
2-M	MEDIAN CROSS OVER DETAIL AT -L- 58+20
2-N	VANE DETAILS
2-O	MODIFIED CONCRETE FLUME
2-P	MILLED RUMBLE STRIPS
2-Q to 2-R	REINFORCED BRIDGE APPROACH FILLS
2-S to 2-V	PRECAST REINFORCED CONCRETE BARRIER
2-W	GUARDRAIL ANCHOR UNIT, TYPE BP-77
2-X	GUIDE FOR GRADING SUBGRADE
2-Y to 2-BB	GUARDRAIL INSTALLATION
2-CC	-L- AND Y1- INTERSECTION DETAILS
2-DD to 2-II	GUARDRAIL RETROFIT DETAILS FOR US 421 NBL OVER Y2 (ATLANTIC COASTAL WESTERN RAILROAD) AND FOR US 421 NBL OVER Y6 (NORFOLK AND SOUTHERN RAILROAD)
2-JJ	DROP INLET INSTALLATION IN EXPRESSWAY GUTTER
2-KK to 2-LL	STRUCTURE ANCHOR UNITS
2-MM	DETAIL TO CONVERT AN EXISTING CATCH BASIN OR JUNCTION BOX TO A DROP INLET
2-NN	DETAIL TO CONVERT AN EXISTING DROP INLET OR CATCH BASIN TO A JUNCTION BOX
2-OO	DETAIL TO CONVERT AN EXISTING CATCH BASIN TO A JUNCTION BOX
3	SUMMARY OF QUANTITIES
3-A	SUMMARY OF GUARDRAIL
3-B to 3-G	DRAINAGE SUMMARY FOR 1200mm AND UNDER PIPES
3-H	DRAINAGE SUMMARY FOR 1350mm AND OVER PIPES, ASPHALT PAVEMENT REMOVAL, AND REMOVAL OF EXISTING GUARDRAIL
3-I	SUMMARY OF EARTHWORK
3-J	SUMMARY OF SHOULDER DRAINS
3-K	PARCEL INDEX SHEET
4 to 27	PLAN SHEETS
28 to 49	GRADE AND PROFILE SHEET FOR -L- AND -Y LINES-
50	TEMPORARY DETOUR
TCP- 1 to TCP- 17	TRAFFIC CONTROL PLANS
PM - 1 to PM- 9	PAVEMENT MARKING PLANS
EC- 1 to EC- 54	EROSION CONTROL PLANS
RF -1 to RF - 2	REFORESTATION PLANS
SIGN-1 to SIGN-23	SIGNING PLANS
UO-1 to UO- 16	UTILITY CONFLICT PLANS
X- A to X-F	CROSS-SECTION SUMMARY OF EARTHWORK
X-G	INDEX OF CROSS-SECTIONS

X-1 to X-151	-L- AND -Y LINE- CROSS-SECTIONS (SEE INDEX X-G)
C-1 to C- 18	CULVERT DESIGN PLANS
S-1 to S-79	STRUCTURE DESIGN PLANS
	SUBSURFACE INVESTIGATION PLANS (INVENTORY)

GENERAL NOTES: 2002 SPECIFICATIONS EFFECTIVE: 01-15-02

GRADE LINE: GRADING AND SURFACING:

THE GRADE LINES SHOWN DENOTE THE FINISHED ELEVATION OF THE PROPOSED SURFACING AT GRADE POINTS SHOWN ON THE TYPICAL SECTIONS. GRADE LINES MAY BE ADJUSTED AT THEIR BEGINNING AND ENDING AND AT STRUCTURES AS DIRECTED 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 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 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.

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.

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.

TEMPORARY SHORING:

SHORING REQUIRED FOR THE MAINTENANCE OF TRAFFIC WILL BE PAID FOR AS "EXTRA WORK" IN ACCORDANCE WITH SECTION 104-7.

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 (POWER DISTRIBUTION)
- SPRINT TELEPHONE COMPANY
- GOLDSTON-GULF SANITARY DISTRICT (WATER DISTRIBUTION)
- PSNC (GAS DISTRIBUTION)

ANY RELOCATION OF EXISTING UTILITIES WILL BE ACCOMPLISHED BY OTHERS.

RIGHT-OF-WAY MARKERS:

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

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
240.01	Guide for Berm Ditch Construction
DIVISION 3 - PIPE CULVERTS	
300.01	Method of Pipe Installation - Method 'A'
300.02	Method of Pipe Installation - Method 'B'
310.10	Driveway Pipe Construction
DIVISION 5 - SUBGRADE, BASES AND SHOULDERS	
560.01	Method of Shoulder Construction - High Side of Superelevated Curve - Method I
DIVISION 6 - ASPHALT BASES AND PAVEMENTS	
610.01	Guide for Paving Shoulders Under Bridges - Method I
654.01	Pavement Repairs
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
838.27	Reinforced Concrete Endwall - for Single 1500mm Pipe 90° Skew
838.39	Reinforced Concrete Endwall - for Single 1800mm Pipe 90° Skew
838.45	Notes for Reinforced Concrete Endwall - Std. Dwg.s 838.21 thru 838.40
838.57	Reinforced Brick Endwall - for Single 1500mm Pipe 90° Skew
838.69	Reinforced Brick Endwall - for Single 1800mm Pipe 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
840.04	Concrete Catch Basin with Single and Multiple Pipes - 300mm thru 1200mm Pipe
840.05	Brick Catch Basin with Single and Multiple Pipes - 300mm thru 1200mm Pipe
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
840.18	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
840.27	Brick Median Drop Inlet Type 'B' - 300mm thru 900mm Pipe
840.28	Brick Median Drop Inlet Type 'D' - 300mm thru 900mm Pipe
840.31	Concrete Junction Box - 300mm thru 1650mm Pipe
840.32	Brick Junction Box - 300mm thru 1650mm Pipe
840.45	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
850.10	Guide for Berm Drainage Outlet - 400mm and 450mm Pipe
852.01	Concrete Islands
862.01	Guardrail Placement
866.02	Woven Wire Fence - with Wood Post



PROJECT REFERENCE NO.	SHEET NO.
R-2610A	1-A
ROADWAY DESIGN ENGINEER	

- 876.01 Rip Rap in Channels
- 876.02 Guide for Rip Rap at Pipe Outlets
- 876.03 Drainage Ditches with Class 'A' Rip Rap
- 876.04 Drainage Ditches with Class 'B' Rip Rap

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