PROJECT REFERENCE NO.	SHEET NO.
R-2552AA /R-2552AB	1-A

METRIC

ROADWAY DESIGN ENGINEER

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 12924 GLENN W. MUMFORD 3/18/05

6/15/99

INDEX OF SHEETS

SHEET NUMBER	SHEET
1	TITLE SHEET - R-2552AA / R-2552AB
1-A	INDEX OF SHEETS, GENERAL NOTES AND LIST OF STANDARDS - R-2552AA / R-2552AB
2	CONVENTIONAL SYMBOLS - R-2552AA / R-2552AB
[redacted]	[redacted]

PART 1 R-2552AA

SHEET NUMBER	SHEET
1	TITLE SHEET- R-2552AA
1-A THROUGH 1-B	SURVEY CONTROL SHEETS
1-C	CENTERLINE COORDINATE LIST
2 THROUGH 2-F	PAVEMENT SCHEDULE, TYPICAL SECTIONS, WEDGING DETAILS, UNDERCUT DETAILS, AND DETAILS SHOWING MILLNG AND FILLING EXISTING CONCRETE RUMBLE STRIPS ON I-40
2-G THROUGH 2-H	STRUCTURE TYPICAL SECTIONS
2-I THROUGH 2-J	BRIDGE SKETCH DETAILS
2-K	-Y4- DETOUR (CORNWALLIS ROAD)
2-L	DETAIL OF IMPROVEMENTS TO THE INTERSECTION OF WHITE OAK RD. AND HEBRON CHURCH RD.
2-M THROUGH 2-N	DITCH DETAILS
2-O	DETAIL OF TEMPORARY MEDIAN CROSSOVERS ON I-40
2-P	TRAFFIC FORCASTS
2-Q	DETAIL OF GUIDE FOR GRADING SUBGRADE
2-R THROUGH 2-S	DETAILS OF REINFORCED BRIDGE APPROACH FILLS
2-T	DETAIL OF METHOD OF SHOULDER CONSTRUCTION
2-U	DETAIL OF ASPHALT SHOULDERS MILLED RUMBLE STRIPS
2-V	DETAIL OF CONCRETE PAVEMENT JOINTS
2-W	DETAIL OF EXPANSION JOINT LAYOUT
2-X	DETAIL OF DOWEL ASSEMBLY
2-Y THROUGH 2-Z	DETAIL OF CONCRETE SHOULDERS RUMBLE STRIPS
2-AA	DETAIL OF DRAINAGE INSTALLTION IN SHOULDER BERM GUTTER - DRAINAGE STR. NO. 76
2-AB	DETAIL OF ENDWALL AND SLUICE GATE FOR 375MM TO 1200MM PIPE
2-AC	DETAIL OF CONCRETE RISER
2-AD	DETAIL OF REBAR TRASH RACK & BLOCKOUT TRASH RACK
2-AE	DETAIL OF DROP INLET INSTALLTION IN EXPRESSWAY GUTTER
2-AF THROUGH 2-AI	DETAILS OF PRECAST REINFORCED CONCRETE BARRIER
2-AJ	DETAIL OF SINGLE FACED BARRIER PIER PROTECTION WITH 75MM COVER
2-AK THROUGH 2-AN	DETAILS OF GUARDRAIL INSTALLATION
2-AO THROUGH 2-AP	DETAILS OF STRUCTURE ANCHOR UNITS
2-AQ	DETAIL OF GUARDRAIL ANCHOR UNIT TYPE B-77
2-AR THROUGH 2-AW	DETAILS OF CABLE GUIDERAIL
2-AWA	DETAIL OF 14.0M MEDIAN GUIDERAIL TRANSITIONS WITH SUPERELEVATION AND / OR FALSE SUMPS
2-AX	DETAIL OF STANDARD HAZARDOUS SPILL BASIN
2-AY	DRAWDOWN STRUCTURE DETAIL
2-AZ	DETAIL OF OUTLET STRUCTURE
2-BA THROUGH 2-BD	STORMWATER DETENTION/HAZARDOUS SPILL BASIN DETAILS
2-BE	DETAILS OF PAVEMENT TYPES AND LIMITS AT EXIT AND ENTRANCE RAMPS
3 (3 SHEETS)	SUMMARY OF QUANTITIES
3-A THROUGH 3-J	SUMMARY OF DRAINAGE QUANTITIES
3-K	SUMMARIES OF SHOULDER DRAINS, SHOULDER BERM GUTTER, REMOVAL OF EXISTING ASPHALT PAVEMENT, EXPRESSWAY GUTTER, BERM DITCH CONST., BREAKING OF EXISTING ASPHALT PAVEMENT, AND WOVEN WIRE FENCE
3-L THROUGH 3-M	GUARDRAIL SUMMARY
3-N	DOUBLE FACED CABLE GUIDERAIL SUMMARY
3-O	SUMMARY OF EARTHWORK
3-P	PARCEL INDEX SHEET
4 THROUGH 16	PLAN SHEETS
17 THROUGH 43	PROFILE SHEETS
TCP-1 THROUGH TCP-47	TRAFFIC CONTROL PLANS - R-2552AA / R-2552AB
PM-1 THROUGH PM-16	PAVEMENT MARKING PLANS - R-2552AA / R-2552AB
EC-1 THROUGH EC-32	EROSION CONTROL PLANS
RF-1 THROUGH RF-2	REFORESTATION PLANS
SIGN-1 THROUGH SIGN-43	SIGNING PLANS - R-2552AA / R-2552AB
UC-1 THROUGH UC-7	UTILITY CONSTRUCTION PLANS
UO-1 THROUGH UO-9	UTILITIES BY OTHERS PLANS
S-1 THROUGH S-258	STRUCTURE PLANS

PART 2 R-2552AB

SHEET NUMBER	SHEET
1	TITLE SHEET- R-2552AB
1-A THROUGH 1-B	SURVEY CONTROL SHEETS
1-C	CENTERLINE COORDINATE LIST
2 THROUGH 2-C	PAVEMENT SCHEDULE, TYPICAL SECTIONS, WEDGING DETAILS, AND UNDERCUT DETAILS
2-D	DRAINAGE DITCH DETAILS
2-E	DETAIL OF CONCRETE RISER
2-F	DETAIL OF REBAR TRASH RACK AND BLOCKOUT RASH RACK
2-G	DETAIL OF ENDWALL AND SLUICE GATE FOR 375MM TO 1200MM PIPE
2-H	DETAIL OF DRAWDOWN STRUCTURE
2-I	DETAIL OF OUTLET STRUCTURE (CONCRETE RISER W/ TRASH RACK)
2-J THROUGH 2-L	DETAIL OF STORMWATER DETENTION / HAZARDOUS SPILL BASIN
2-M	DETAIL OF GUIDE FOR GRADING SUBGRADE (INTERSTATE AND FREEWAY)
2-N THROUGH 2-O	DETAIL OF REINFORCED BRIDGE APPROACH FILLS
2-P	DETAIL OF ASPHALT SHOULDER MILLED RUMBLE STRIPS
2-Q THROUGH 2-T	DETAIL OF GUARDRAIL INSTALLATION
2-U THROUGH 2-V	DETAIL OF STRUCTURE ANCHOR UNITS (GUARDRAIL ANCHOR UNIT, TYPE III)
2-W THROUGH 2-BB	DETAIL OF CABLE GUIDERAIL
2-CC	DETAIL OF 14.0M MEDIEAN GUIDERAIL TRANSITIONS WITH SUPERELEVATION AND / OR FALSE SUMPS
2-DD	DETAIL OF INTERSECTIONS
3-A THROUGH 3-F	SUMMARY OF DRAINAGE (FOR PIPES 1200MM AND UNDER)
3-G	SUMMARY OF DRAINAGE (FOR PIPES 1350MM AND OVER)
3-H	GUARDRAIL AND GUIDERAIL SUMMARY
3-I	SUMMARY OF 1200MM WOVEN WIRE FENCE, SUMMARY OF SHOULDER DRAINS, SUMMARY OF INCIDENTAL MILLING ASPHALT PAVEMENT AND SUMMARY OF ASPHALT PAVEMENT REMOVAL
3-J	SUMMARY OF EARTHWORK
3-K	PARCEL INDEX SHEET
4 THROUGH 15	PLAN SHEETS
16 THROUGH 33	PROFILE SHEETS
EC-1 THROUGH EC-28	EROSION CONTROL PLANS
RF-1	REFORESTATION DETAILS
SIG-1 THROUGH SIG-19	TRAFFIC SIGNAL PLANS
UC-1 THROUGH UC-9	UTILITY CONSTRUCTION PLANS
UO-1 THROUGH UO-5	UTILITIES BY OTHERS
C-1 THROUGH C-8	CULVERT PLANS
S-1 THROUGH S-170	STRUCTURE PLANS

R-2552AA/R-2552AB

SHEET NUMBER	SHEET
X-A	CROSS SECTIONS INDEX- R-2552AA
X-B THROUGHX-D	CROSS SECTION SUMMARY - R-2552AA
X-1 THROUGH X-99	CROSS SECTIONS - R-2552AA
X-1 THROUGH X-2	CROSS SECTION SUMMARY - R-2552AB
X-3 THROUGH X-128	CROSS SECTIONS - R-2552AB

GENERAL NOTES:

2002 SPECIFICATIONS
EFFECTIVE: 01-15-02
REVISED: 05-14-03

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.

THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE AREAS IN THE PLANS DESIGNATED SAFETY CLEARING. THE LIMITS ARE AS SHOWN AND THE CLEARING AND GRUBBING IS CONSIDERED A PART OF THE LUMP SUM ITEM FOR "CLEARING AND GRUBBING".

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 OR 560.02. CONCRETE SHOULDER CONSTRUCTION ON THE HIGH SIDE OF SUPERELEVATED CURVES SHALL BE IN ACCORDANCE WITH DETAILS IN PLANS.

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 OR 816.03 AND DETAILS IN PLANS 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" OR "TEMPORARY SHORING-BARRIER SUPPORTED" DEPENDING UPON THE LOCATION OF THE 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:
- PROGRESS ENERGY (DISTRIBUTION)
- SPRINT CAROLINA TELEPHONE AND TELEGRAPH
- TIME WARNER TELECOMMUNICATIONS
- BELLSOUTH COMMUNICATIONS
- CARDINAL PIPELINE
- PROGRESS ENERGY (TRANSMISSION)
- CITY OF RALEIGH
- JOHNSTON COUNTY

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.

ROADWAY ENGLISH STANDARD DRAWINGS

EFF. 01-15-02
REV.11-23-04

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
225.07	Grading for False Cut at Grade Separations
225.08	Earth Berm Median Pier Protection
225.09	Guide for Shoulder and Ditch Transition at Grade Separations
240.01	Guide for Berm Ditch Construction
	DIVISION 3 - PIPE CULVERTS
300.01	Method of Pipe Installation - Method 'A'
310.10	Driveway Pipe Construction
	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
	DIVISION 6 - ASPHALT BASES AND PAVEMENTS
610.03	Guide for Paving Shoulders Under Bridges - Method III
	DIVISION 7 - CONCRETE PAVEMENTS AND SHOULDERS
700.04	Concrete Pavement Header Board
700.05	Tying Proposed Pavement to Existing
710.01	Concrete Pavement - Station Marking
	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
838.21	Reinforced Concrete Endwall - for Single 1350mm/1400mm Pipe 90 Skew
838.27	Reinforced Concrete Endwall - for Single 1500mm Pipe 90 Skew
838.33	Reinforced Concrete Endwall - for Single 1650mm Pipe 90 Skew
838.45	Notes for Reinforced Concrete Endwall - Std. Dwg 838.21 thru 838.40
838.51	Reinforced Brick Endwall - for Single 1350mm/1400mm Pipe 90 Skew
838.57	Reinforced Brick Endwall - for Single 1500mm Pipe 90 Skew
838.63	Reinforced Brick Endwall - for Single 1650mm Pipe 90 Skew
838.75	Notes for Reinforced Brick Endwall - Std. Dwg 838.51 thru 838.70
838.80	Precast Endwalls - 300mm thru 1800mm Pipe 90 Skew
840.00	Concrete Base Pad for Drainage Structures
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 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
840.25	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
840.34	Traffic Bearing Junction Box - for Use with Pipes 1050mm and Under
840.41	Spring Box - Concrete or Brick
840.45	Precast Drainage Structure
840.46	Traffic Bearing Precast Drainage Structure
840.66	Drainage Structure Steps
840.71	Concrete and Brick Pipe Plug
840.72	Pipe Collar
846.01	Concrete Curb, Gutter and Curb & Gutter
850.01	Concrete Paved Ditches
850.10	Guide for Berm Drainage Outlet - 400mm and 450mm Pipe
850.11	Guide for Berm Drainage Outlet - 600mm and 800mm Pipe
852.01	Concrete Islands
862.01	Guardrail Placement
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

18-MAR-2005 11:39
JLTeague