INDEX OF SHEETS SHEET NUMBER SHEET 1 TITLE SHEET 1 A INDEX OF SHEETS, GENERAL NOTES, AND LIST OF STANDARD DRAWINGS 1 B CONVENTIONAL PLAN SHEET SYMBOLS PAVEMENT SCHEDULE, WEDGING DETAIL, AND TYPICAL SECTIONS 2A-1 THRU 2A-8 2B-1 THRU 2B-3 -YDET- ONSITE DETOUR SHEETS ROADWAY INTERSECTION DETAILS 2B-4 THRU 2B-6 2B-7 SHEAR POINT DIAGRAM 2C-1 GUARDRAIL INSTALLATION DETAIL 2C-2 GUARDRAIL IMPACT ATTENUATOR DETAIL SPECIAL TEMPORARY TRAFFIC BEARING JUNCTION BOX DETAIL 2C-3 COAL COMBUSTION PRODUCT PLACEMENT DETAIL 2C-4 WOVEN WIRE FENCE WITH DOUBLE GATE DETAIL 2C-5 2C-6 REINFORCED CONCRETE ENDWALL FOR 54" PIPE 45 DEGREE SKEW DETAIL 2C-7 REINFORCED CONCRETE ENDWALL FOR 54" PIPE 60 DEGREE SKEW DETAIL 2D-1 DRAINAGE DITCH DETAILS STREAM BED DETAILS (BRIDGE NO. 372 & 418) 2D-2 2D-3 STREAM BED DETAILS (BRIDGE NO. 374) 3B-1 SUMMARY OF EARTHWORK GUARDRAIL SUMMARY, ASPHALT PAVEMENT REMOVAL SUMMARY, 3B-2 BREAKING OF EXISTING ASPHALT PAVEMENT SUMMARY, SHOULDER BERM GUTTER SUMMARY, CABLE GUIDERAIL SUMMARY, PRECAST CONCRETE BARRIER SUMMARY, AND WOVEN WIRE FENCE SUMMARY 3D-1 THRU 3D-8 DRAINAGE SUMMARIES 3G-1 GEOTECHNICAL SUMMARIES 3P-1 PARCEL INDEX SHEET 4 THRU 13 PLAN SHEETS 14 THRU 30 PROFILE SHEETS RW 1 THRU RW 13 RIGHT OF WAY PLAN SHEETS TMP-1 THRU TMP-37 TRAFFIC MANAGEMENT PLANS PMP-1 THRU PMP-11 PAVEMENT MARKING PLANS EC-1 THRU EC-23 EROSION CONTROL PLANS SIGN-1 THRU SIGN-19 SIGNING PLANS UC-1 THRU UC-20 UTILITIES CONSTRUCTION PLANS UO-1 THRU UO-14 UTILITIES BY OTHERS PLANS X-1 CROSS-SECTION INDEX SHEET X-1A THRU X-1E CROSS-SECTION SUMMARY SHEET X-1 THRU X-99 CROSS-SECTIONS S1-1 THRU S1-28 STRUCTURE PLANS (-Y- STA. 34+01.72) S2-1 THRU S2-24 STRUCTURE PLANS (-Y- STA. 16+93.00) S3-1 THRU S3-30 STRUCTURE PLANS (-L- STA, 70+34.00) S4-1 THRU S4-29 STRUCTURE PLANS (-L- STA, 71+06.00)

GENERAL NOTES:

2018 SPECIFICATIONS EFFECTIVE: 01-16-2018 REVISED:

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 STD, 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 STD. NO. 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.

STREET TURNOUT:

STREET RETURNS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. NO. 848.04 USING THE RADII 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 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 DWNERS ON THIS PROJECT ARE Communications - AT&T, Charter,

Verizon, Windstream, and Focus Broadband; Power Distribution - Four County EMC; Power Transmission - Four County EMC; Water - Town of Sandyfield

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.

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PROJECT REFERENCE NO. SHEET NO. 1 Glenwood Avenue R-256/CA IA Raleigh, NC 27603 ROADWAY DESIGN Tel 919 789 9977 ENGINEER Fax:919.789.9591 License C-2197 Engineering & Construction, Inc. SEAL 033871 Variel W. Gardner, **DOCUMENT NOT CONSIDERED FINAL** UNLESS ALL SIGNATURES COMPLETED EFF. 01-16-2018 REV. 2018 ROADWAY ENGLISH STANDARD DRAWINGS lowing Roadway Standards as appear in "Roadway Standard Drawings" Highway Design Branch epartment of Transportation - Raleigh, N. C., Dated January, 2018 are applicable to this project reference hereby are considered a part of these plans: TITLE DN 2 - EARTHWORK Method of Clearing - Method III Guide for Grading Subgrade - Interstate and Freeway Guide for Grading Subgrade - Secondary and Local Deceleration and Acceleration Lanes Method of Obtaining Superelevation - Two Lane Pavement Method of Obtaining Superelevation - Divided Highways Method of Grading Sight Distance at Intersections Grading For False Cut at Grade Seperations Grade For Shoulder and Ditch Transition at Grade Seperations N 3 - PIPE CULVERTS Method of Pipe Installation Driveway Pipe Construction IN 4 - MAJOR STRUCTURES Bridge Approach Fills - Type I Standard Approach Fill Bridge Approach Fills - Type A Alternate Approach Fill for Integral Abutment NN 5 - SUBGRADE, BASES AND SHOULDERS Method of Shoulder Construction - High Side of Superelevated Curve - Method I Method of Shoulder Construction - High Side of Superelevated Curve - Method II N 6 – ASPHALT BASES AND PAVEMENTS Guide for Paving Shoulders Under Bridges - Method III Pavement Repairs N 8 - INCIDENTALS Subsurface Drain Concrete Endwall for Single and Double Pipe Culverts - 15" thru 48" Pipe 90 Skew Brick Endwall for Single and Double Pipe Culverts - 15" thru 48" Pipe 90 Skew Reinforced Concrete Endwall - for Single 54" Pipe 90 Skew Reinforced Concrete Endwall - for Double and Triple 54" Pipes 90 Skew Reinforced Brick Endwall - for Single 54" Pipe 90 Skew Reinforced Brick Endwall - for Double and Triple 54" Pipes 90 Skew Notes for Reinforced Brick Endwall - Std. Dwg 838.51 thru 838.70 Precast Endwalls - 12" thru 72" Pipe 90 Skew Concrete Base Pad for Drainage Structures Brick Catch Basin - 12" thru 54" Pipe Concrete Catch Basin - 12" thru 54" Pipe Frame, Grates and Hood - for Use on Standard Catch Basin Concrete Drop Inlet - 12" thru 30" Pipe Brick Drop Inlet - 12" thru 30" Pipe Drop Inlet Frame and Grates - for use with Std. Dwg 840.14 and 840.15 Concrete Grated Drop Inlet Type 'A' - 12" thru 72" Pipe Concrete Grated Drop Inlet Type 'B' - 12" thru 36" Pipe Concrete Grated Drop Inlet Type 'D' - 12" thru 36" Pipe Frames and Wide Slot Flat Grates Frames and Wide Slot Sag Grates Frames and Narrow Slot Saa Grates Anchorage for Frames - Brick or Concrete or Precast Brick Grated Drop Inlet Type 'A' - 12" thru 72" Pipe Brick Grated Drop Inlet Type 'B' - 12" thru 36" Pipe Brick Grated Drop Inlet Type 'D' - 12" thru 36" Pipe Frame and Narrow Slot Flat Grates Concrete Junction Box - 12" thru 66" Pipe Brick Junction Box - 12" thru 66" Pipe Traffic Bearing Grated Drop Inlet - for Cast Iron Double Frame and Grates Precast Drainage Structure Traffic Bearing Precast Drainage Structure Manhole Frame and Cover Drainage Structure Steps Concrete Curb, Gutter and Curb & Gutter Drop Inlet Installation in Shoulder Berm Gutter Street Turnout Concrete Paved Ditches Guide for Berm Drainage Outlet - 15" and 18" Pipe Concrete Islands Method for Placement of Drop Inlets in Concrete Islands Precast Reinforced Concrete Barrier - 41" Single Faced Guardrail Placement Guardrail Installation Structure Anchor Units Anchoring End of Guardrail - B-77 and B-83 Anchor Units Cable Guiderail Woven Wire Fence - with Wood Post Rip Rap in Channels Guide for Rip Rap at Pipe Outlets 876.04 Drainage Ditches with Class 'B' Rip Rap