SHEET NUMBER	SHEET
1	TITLE SHEET
1A	INDEX OF SHEETS, GENERAL NOTES AND STANDARD DE
1B	CONVENTIONAL SYMBOLS
2A–1 THRU 2A–12	PAVEMENT SCHEDULE AND TYPICAL SECTIONS
2B–1	INTERSECTION DETAIL
2B–2 THRU 2B–18	DETOUR DETAILS
2B–19	GUARDRAIL DETAIL
2B–20 THRU 2B–22	DOUBLE FACED TYPE T2 BARRIER MODIFIED DETAILS
2C–1	2'-9" CONCRETE CURB AND GUTTER DETAIL
2C–2	GUARDRAIL INSTALLATION SPECIAL DETAIL
2C–3	COAL COMBUSTION PRODUCT DETAIL
2C-4	MEDIAN HAZARD PIER PROTECTION
2C–5	SHOULDER BERM GUTTER TO EXPRESSWAY GUTTER TRANSITION SECTION
2C–6	DETAIL TO CONVERT 2GI TO JB
2C–7	DETAIL TO CONVERT CB TO DI
2C–8	DETAIL OF TEMPORARY 1" STEEL COVER
2C–9	TYPE III REINFORCED BRIDGE APPROACH FILLS
2D–1 THRU 2D–2	DRAINAGE DETAILS
2G–1 THRU 2G–6	GEOTECH DETAILS
3B–1 THRU 3B–5	ROADWAY SUMMARIES
3D–1 THRU 3D–11	DRAINAGE SUMMARIES
3G–1 THRU 3G–2	GEOTECH SUMMARIES
3P–1	PARCEL INDEX SHEET
4 THRU 26	PLAN AND PROFILE SHEETS
TMP-01 THRU TMP-47	TRAFFIC MANAGEMENT PLANS
PMP-01 THRU PMP-08	PAVEMENT MARKING PLANS
E-1 THRU E-2	ELECTRICAL PLANS
EC–1 THRU EC–23	EROSION CONTROL PLANS
RF-1 THRU RF-3	REFORESTATION PLANS
SIGN-1 THRU SIGN-10A	SIGNING PLANS
TS–01 THRU ITS–24	ITS PLANS
JC-1 THRU UC-5	UTILITIY CONSTRUCTION PLANS
UO-1 THRU UO-9	UTILITIES BY OTHERS PLANS
X_1	CROSS-SECTION INDEX SHEET
X-1A THRU X-1C	CROSS-SECTION SUMMARY SHEET
X–2 THRU X–172	CROSS-SECTIONS
S01–01 THRU S01–59	STRUCTURE PLANS
S02–01 THRU S02–48	STRUCTURE PLANS
S03L–01 THRU S03L–44	STRUCTURE PLANS
SO3R–01 THRU SO3R–61	STRUCTURE PLANS
W-01 THRU W-09A	WALL PLANS

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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 II.

SUPERELEVATION:

ALL CURVES ON THIS PROJECT SHALL BE SUPERELEVATED IN ACCORDANCE WITH 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. 560.02

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.

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.

SUBSURFACE DRAINS:

SUBSURFACE DRAINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. NO. 815.02 AT LOCATIONS DIRECTED BY THE ENGINEER.

DRIVEWAYS:

DRIVEWAYS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. 848.02 USING 3 FOOT RADII OR RADII AS SHOWN ON THE PLANS. LOCATIONS OF DRIVES WILL BE AS SHOWN ON THE PLANS OR AS 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 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 LAKE JUNALUSKA SANITARY

DISTRICT; TOWN OF WAYNESVILLE; DOMINION ENERGY; DUKE ENERGY; AT&T;

CHARTER COMMUNICATIONS; BALSAM WEST FIBER; EDUCATION & RESEARCH

CONSORTIUM OF NC; SEGRA; HAYWOOD COUNTY GOVERNMENT

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 CONTRACT.

2018 ROADWAY ENGLISH STANDARD DRAWINGS

and by reference hereby are considered a part of these plans: STD.NO. TITLE DIVISION 2 – EARTHWORK Method of Clearing – Method III 200.03 225.01 Guide for Grading Subgrade – Interstate and Freeway 225.03 Deceleration and Acceleration Lanes Method of Obtaining Superelevation – Divided Highways 225.05 225.09 Guide for Shoulder and Ditch Transition at Grade Separations 240.01 Guide for Berm Ditch Construction 275.01 Rock Plating DIVISION 3 – PIPE CULVERTS 300.01 Method of Pipe Installation 310.10 Driveway Pipe Construction **DIVISION 4 – MAJOR STRUCTURES** 422.01 Bridge Approach Fills – Type I Standard Approach Fill DIVISION 5 – SUBGRADE, BASES AND SHOULDERS 560.02 Method of Shoulder Construction – High Side of Superelevated Curve – Method II DIVISION 6 - ASPHALT BASES AND PAVEMENTS 610.01 Guide for Paving Shoulders Under Bridges – Method I 610.04 Guide for Paving Shoulders Under Bridges – Method IV 654.01 Pavement Repairs 665.01 Asphalt Shoulders – Milled Rumble Strips DIVISION 8 - INCIDENTALS 806.01 Concrete Right-of-Way Marker 806.02 Granite Right-of-Way Marker Concrete Contol of Access Marker 806.03 815.02 Subsurface Drain 820.01 Funnel and Funnel Drain – 12" Metal Funnel Concrete Base Pad for Drainage Structures 840.00 840.01 Brick Catch Basin – 12" thru 54" Pipe Concrete Catch Basin – 12" thru 54" Pipe 840.02 840.03 Frame, Grates and Hood – for Use on Standard Catch Basin 840.14 Concrete Drop Inlet – 12" thru 30" Pipe Brick Drop Inlet – 12" thru 30" Pipe 840.15 840.16 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 840.17 840.18 Concrete Grated Drop Inlet Type 'B' – 12" thru 36" Pipe Concrete Grated Drop Inlet Type 'D' – 12" thru 36" Pipe 840.19 840.20 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 Frames and Narrow Slot Flat Grates 840.29 840.31 Concrete Junction Box – 12" thru 66" Pipe 840.32 Brick Junction Box – 12" thru 66" Pipe 840.34 Traffic Bearing Junction Box – for Use with Pipes 42" and Under Traffic Bearing Grated Drop Inlet – for Steel (840.37) Double Frame and Grates 840.36 840.37 Steel Grate and Frame Precast Drainage Structure 840.45 840.46 Traffic Bearing Precast Drainage Structure 840.51 Brick Manhole – 12" thru 36" Pipe 840.54 Manhole Frame and Cover 840.66 Drainage Structure Steps 840.71 Concrete and Brick Pipe Plug 840.72 Pipe Collar Concrete Curb, Gutter and Curb & Gutter 846.01 846.02 Drop Inlet Installation in Expressway Gutter Funnel Drain Installation in Shoulder Berm Gutter 846.03 Drop Inlet Installation in Shoulder Berm Gutter 846.04 Driveway Turnout – Radius Type 848.02 848.04 Street Turnout 850.01 Concrete Paved Ditches 850.10 Guide for Berm Drainage Outlet – 15" and 18" Pipe 852.10 Median Construction – with Curb and Gutter 854.02 Double Faced Concrete Barrier – Types 'T', 'T1' and 'T2' 854.05 Concrete Median Transition Barrier – Location of Overhead Assembly 857.01 Precast Reinforced Concrete Barrier – 41" Single Faced 862.01 Guardrail Placement 862.02 Guardrail Installation 862.03 Structure Anchor Units 862.04 Anchoring End of Guardrail – B–77 and B–83 Anchor Units 866.02 Woven Wire Fence – with Wood Post 866.03 Woven Wire Fence – with Steel Post 876.01 Rip Rap in Channels 876.02 Guide for Rip Rap at Pipe Outlets

EFF. 01–16–2018 REV.

The following Roadway Standards as appear in "Roadway Standard Drawings" Highway Design Branch -N. C. Department of Transportation - Raleigh, N. C., Dated January, 2018 are applicable to this project

PROJECT REFERENCE NO. SHEET NO. B-3186 / B-5898 1–A R/W SHEET NO. ROADWAY DESIGN ENGINEER SEAL Phillip 2.6 Roge 3/31/2022 **DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED** HDR Engineering, Inc. of the Carolinas 555 Fayetteville St, Suite 900 Raleigh, N.C. 2760 N.C.B.E.L.S. License Number: F-0116

876.04 Drainage Ditches with Class 'B' Rip Rap