	SHEET NUMBER	INDEX OF SHEETS
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	1B	CONVENTIONAL SYMBOLS
	1C-1 THRU 1C-2	SURVEY CONTROL SHEETS
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	2C–1	2'_9" CONCRETE CURB AND GUTTER
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	2C–3	GUARDRAIL STRUCTURE ANCHOR UNITS
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	2C–7	STRUCTURE 1339 & 1340: SPECIAL JUNCTION BOX W/SLAB LID
	2C-8	TEMPORARY 1" STEEL COVER OVER DRAINAGE STRUCTURE
	2C-9	CONCRETE ENDWALL FOR TRIPLE AND QUADRUPLE PIPE CULVERTS
	2C–10	PIPE COLLAR DETAIL
	2C–11	1'-6" TO 2'-9" CURB AND GUTTER TRANSITION SECTION
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	2C–13	CURB RAMP DETAIL - DIRECTIONAL RAMPS
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	2C–15	CURB RAMP DETAIL - AT DRIVEWAY OPENINGS
	2C–16	CURB RAMP DETAIL - MEDIAN OR TURN LANE ISLANDS
	2C–17	CURB RAMP DETAIL - PARALLEL RAMPS
	2C–18	CURB RAMP DETAIL - SHARED LANDING
	2C-19	PEDESTRIAN HANDRAIL DETAIL
	2G–1	ROCK EMBANKMENTS DETAILS
	2G–2	GEOTEXTILE FOR EMBANKMENT STABILIZATION DETAILS
	2G–3	STANDARD FOR TEMPORARY SHORING
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	2G–5	STANDARD FOR TEMPORARY WALL SHEET 2 OF 3
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	2H_1	STOCKPILE CONTAINMENT DETAIL
	2N-1 THRU 2N-3	NOISE WALL ENVELOPES
	3B–1 THRU 3B–2	ROADWAY SUMMARIES (EARTHWORK, GUARDRAIL, ETC.)
	3D–1 THRU 3D–19	DRAINAGE SUMMARIES
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	4 THRU 23	PLAN SHEETS
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	TMP-1 THRU TMP-82	TRANSPORTATION MANAGMENT PLANS
	PMP-1 THRU PMP-21	PAVEMENT MARKING PLANS
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	SIGN-1 THRU SIGN-13	SIGNING PLANS
	SIG-1 THRU SIG-18.4	SIGNAL PLANS
	SIG-M1 THRU SIG-M8	METAL POLE STANDARD DRAWINGS
	SIG-SP1 THRU SIG-SP10	STANDARD DRAWINGS FOR METAL STRAIN POLES
	SCP-1 THRU SCP-26	SIGNAL COMMUNICATION PLANS
	UC-1 THRU UC-23	UTILITY CONSTRUCTION PLANS
C,	UC–1Q THRU UC–22Q	UTILITY CONSTRUCTION PLANS
ں چھھ جیٹے	UO-1 THRU UO-21	UTILITY BY OTHERS PLANS
15:50 国内 日本 50 日本 50	X-0	CROSS-SECTION INDEX

CROSS-SECTION SUMMARY

CROSS-SECTIONS

Detail. HANDRAIL PEDESTRIAN ° SHEET ADDED **REVISION:** CONSTRUCTION

1

/08/2021

X–1A THRU X–1E

X-2 THRU X-130

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

GENERAL NOTE	ES: 2018 SPECIFICATIONS EFFECTIVE: 01–16–2	018	2018 ROA	
	REVISED:		EFF. 01–16 REV.	
GRADING AND	D SURFACING OR RESURFACING AND WIDENING:			
T S A A	THE GRADE LINES SHOWN DENOTE THE FINISHED ELEVATION O SURFACING AT GRADE POINTS SHOWN ON THE TYPICAL SECTION ARE SHOWN, THE PROFILES SHOWN DENOTE THE TOP ELEVATION ALONG THE CENTER LINE OF SURVEY ON WHICH THE PROPOSE	F THE PROPOSED ONS. WHERE NO GRADE LINES I OF THE EXISTING PAVEMENT D RESURFACING WILL BE	The follow Highway [Dated Jan considered	
P P	PLACED. GRADE LINES MAY BE ADJUSTED BY THE ENGINEER IN PROPER TIE-IN.	ORDER TO SECURE A	STD.NO.	
CLEARING:			DIVISION 200.03	
C N	CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIM METHOD III.	ITS ESTABLISHED BY	225.02 225.04 225.05	
SUPERELEVATIO	N:		225.06 240.01	
ALI STE AN THI	L CURVES ON THIS PROJECT SHALL BE SUPERELEVATED IN ACCO D. NO. 225.04 AND STD. NO. 225.05 USING THE RATE OF SUPE ID RUNOFF SHOWN IN THE PLANS. SUPERELEVATION IS TO BE E GRADE POINTS SHOWN ON THE TYPICAL SECTIONS.	DRDANCE WITH RELEVATION REVOLVED ABOUT	275.01 DIVISION 300.01	
SHOULDER CONSTRUCTION:				
A S	ASPHALT, EARTH, AND CONCRETE SHOULDER CONSTRUCTION ON SUPERELEVATED CURVES SHALL BE IN ACCORDANCE WITH STD. N	THE HIGH SIDE OF O. 560.01	DIVISION 422.03	
SIDE ROADS:			DIVISION	
T S T I	THE CONTRACTOR WILL BE REQUIRED TO DO ALL NECESSARY W SUITABLE CONNECTIONS WITH ALL ROADS, STREETS, AND DRIVES THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FO NVOLVED.	ORK TO PROVIDE ENTERING THIS PROJECT. OR THE PARTICULAR ITEMS	560.01 DIVISION 654.01	
BERM DITCHES			DIVISION	
B A	BERM DITCHES SHALL BE CONSTRUCTED IN ACCORDANCE WITH	STD. NO. 240.01 E ENGINEER.	806.02 806.03 815.02	
SUBSURFACE D	RAINS:		838.01 838.11 I	
S Lu	UBSURFACE DRAINS SHALL BE CONSTRUCTED IN ACCORDANCE OCATIONS DIRECTED BY THE ENGINEER.	WITH STD. NO. 815.02 AT	838.21 838.33	
DRIVEWAYS:			838.45 838.51	
	DRIVEWAYS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STI JSING 3 FOOT RADII OR RADII AS SHOWN ON THE PLANS. LOO VILL BE AS SHOWN ON THE PLANS OR AS DIRECTED BY THE E	D. 848.02 CATIONS OF DRIVES NGINEER.	838.63 838.69 838.75	
STREET TURNOU	UT:		840.00 840.01	
S T	TREET RETURNS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE RADII NOTED ON PLANS.	1 STD. NO. 848.04 USING	840.01 840.02 840.03 840.14	
GUARDRAIL:			840.15 840.16	
T C W	THE GUARDRAIL LOCATIONS SHOWN ON THE PLANS MAY BE AUCONSTRUCTION AS DIRECTED BY THE ENGINEER. THE CONTRACTION THE ENGINEER PRIOR TO ORDERING GUARDRAIL MATERIAL	DJUSTED DURING FOR SHOULD CONSULT	840.17 840.18 840.19 840.24	
TEMPORARY SH	IORING:		840.25 840.26	
S W	HORING REQUIRED FOR THE MAINTENANCE OF TRAFFIC NOT S VILL BE PAID FOR AT THE CONTRACT PRICE FOR "TEMPORARY SH	HOWN ON THE PLANS IORING".	840.27 840.28 840.29	
END BENTS:			840.31 840.32	
T S A	THE ENGINEER SHALL CHECK THE STRUCTURE END BENT PLANS, I ECTION PRIOR TO SETTING OF THE SLOPE STAKES FOR THE EA	DETAILS, AND CROSS- ABANKMENT OR EXCAVATION	840.34 840.45 840.46 840.54	
UTILITIES:			840.66 840.72	
U	JTILITY OWNERS ON THIS PROJECT ARE DUKE ENERGY		846.02 846.04	
A	T&T TRANSMISSION, CONTERRA, CENTURYLINK, CHARTER,		848.01 848 02	
	PIEDMONT NATURAL GAS, AQUA OF NC, JOHNSTON COUNTY,		848.04 848.05	
	AND TOWN OF CLAYTON		850.10 850.11	
A A	ANY RELOCATION OF EXISTING UTILITIES WILL BE ACCOMPLISHEI AS SHOWN ON THE PLANS.	D BY OTHERS, EXCEPT	852.01 852.04 852.06	
RIGHT-OF-WAY	MARKERS:		852.10 857.01	
A	ALL RIGHT-OF-WAY MARKERS ON THIS PROJECT SHALL BE PLACED	D BY CONTRACT.	862.01 862.02	
CURB RAMPS			862.04 876.01	
CU CC AN	JRB RAMPS ARE SHOWN ON THE PLANS AT APPROXIMATE LOCA DNSTRUCT ALL CURB RAMPS ACCORDANCE WITH STD 848.05 AN ID/OR DETAILS IN THE PLANS	TIONS. ND/OR 848.06.	876.02 876.04	

PROJECT REFERENCE NO. SHEET NO. R-3825B 1A ROADWAY DESIGN ENGINEER DOCUMENT NOT CONSIDERED FINAL NOT A CERTIFIED DOCUMENT AS TO UNLESS ALL SIGNATURES COMPLETED THE ORIGINAL DOCUMENT THIS DOCUMENT ORIGINALLY ISSUED AND SEALED BY : EDWARD GLENN EDENS, JR. ADWAY ENGLISH STANDARD DRAWINGS -201818470 ON 08/09/2018 THIS DOCUMENT IS ONLY CERTIFIE AS TO THE REVISIONS. ving Roadway Standards as appear in "Roadway Standard Drawings" ROADWAY DESIGN Design Branch – N. C. Department of Transportation – Raleigh, N. C., ENGINEER nuary, 2018 are applicable to this project and by reference hereby are a part of these plans: FESS/0 TITLE SEAL 024641 2 – EARTHWORK Method of Clearing – Method III Guide for Grading Subgrade – Secondary and Local Method of Obtaining Superelevation – Two Lane Pavement 1/7/2021 Method of Obtaining Superelevation – Divided Highways Tatia L. White Method of Grading Sight Distance at Intersections Guide for Berm Ditch Construction 39CECE8F5E1472 Rock Plating 3 – PIPE CULVERTS Method of Pipe Installation Parallel Pipe End Section – Precast Concrete Section for 15" to 24" Pipe Cross Pipe End Section – Precast Concrete Section for 18" to 30" Pipe Driveway Pipe Construction 4 – MAJOR STRUCTURES Reinforced Bridge Approach Fills – Type A Alternate Approach Fill for Integral Abutment 5 – SUBGRADE, BASES AND SHOULDERS Method of Shoulder Construction – High Side of Superelevated Curve – Method I 6 – ASPHALT BASES AND PAVEMENTS Pavement Repairs 8 – INCIDENTALS Concrete Right–of–Way Marker Granite Right–of–Way Marker Concrete Contol of Access Marker 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 Brick Endwall for Single and Double Pipe Culverts – 15" thru 48" Pipe 90 Reinforced Concrete Endwall – for Single 54" Pipe 90 Skew Reinforced Concrete Endwall – for Single 66" Pipe 90 Skew Notes for Reinforced Concrete Endwall – Std. Dwg 838.21 thru 838.40 Reinforced Brick Endwall – for Single 54" Pipe 90 Skew Reinforced Brick Endwall – for Single 66" Pipe 90 Skew Reinforced Brick Endwall – for Single 66" Pipe 90 Skew Reinforced Brick Endwall – for Single 72" Pipe 90 Skew Reinforced Brick Endwall – for Single 72" Pipe 90 Skew Reinforced Brick Endwall – for Single 72" Pipe 90 Skew 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 Narrow Slot Sag 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 Frames and Narrow Slot Flat Grates Concrete Junction Box – 12" thru 66" Pipe Brick Junction Box – 12" thru 66" Pipe Traffic Bearing Junction Box – for Use with Pipes 42" and Under Precast Drainage Structure Traffic Bearing Precast Drainage Structure Manhole Frame and Cover Drainage Structure Steps Pipe Collar Concrete Curb, Gutter and Curb & Gutter Drop Inlet Installation in Expressway Gutter Drop Inlet Installation in Shoulder Berm Gutter Concrete Sidewalk Driveway Turnout – Radius Type Street Turnout Curb Ramp – Proposed Curb & Gutter Guide for Berm Drainage Outlet – 15" and 18" Pipe Guide for Berm Drainage Outlet – 24" and 30" Pipe Concrete Islands Method for Placement of Drop Inlets in Grassed Median – Using 1'–6" Curb and Gutter Method for Placement of Drop Inlets in Concrete Islands Median Construction – with Curb and Gutter Precast Reinforced Concrete Barrier – 41" Single Faced Guardrail Placement Guardrail Installation (Special Detail for Sheet 6 of 8) Anchoring End of Guardrail – B–77 and B–83 Anchor Units Rip Rap in Channels Guide for Rip Rap at Pipe Outlets Drainage Ditches with Class 'B' Rip Rap