

2018 ROADWAY ENGLISH STANDARD DRAWINGS

Check All

Clear All

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 and by reference hereby are considered a part of these plans:

Include?

STD.NO.

TITLE

DIVISION 2 - EARTHWORK

- 200.02 Method of Clearing - Method II
- 200.03 Method of Clearing - Method III
- 225.01 Guide for Grading Subgrade - Interstate and Freeway
- 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
- 225.06 Method of Grading Sight Distance at Intersections
- 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
- 235.01 Embankment Monitoring
- 240.01 Guide for Berm Ditch Construction
- 275.01 Rock Plating

DIVISION 3 - PIPE CULVERTS

- 300.01 Method of Pipe Installation
- 310.02 Parallel Pipe End Section - Precast Concrete Section for 15" to 24" Pipe
- 310.03 Cross Pipe End Section - Precast Concrete Section for 18" to 30" Pipe
- 310.04 Parallel Pipe End Section - Prefabricated Steel Section for 15" to 24" Pipe
- 310.05 Cross Pipe End Section - Prefabricated Steel Section for 18" to 30" Pipe
- 310.10 Driveway Pipe Construction

DIVISION 4 - MAJOR STRUCTURES

- 422.01 Bridge Approach Fills - Type I Standard Approach Fill
- 422.02 Bridge Approach Fills - Type II Modified Approach Fill
- 422.03 Reinforced Bridge Approach Fills - Type A Alternate Approach Fill for Integral Abutment

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

- 610.01 Guide for Paving Shoulders Under Bridges - Method I
- 610.02 Guide for Paving Shoulders Under Bridges - Method II

- 610.03 Guide for Paving Shoulders Under Bridges - Method III
- 654.01 Pavement Repairs
- 665.01 Asphalt Shoulders - Milled Rumble Strips

DIVISION 7 - CONCRETE PAVEMENTS AND SHOULDERS

- 700.01 Concrete Pavement Joints - Construction and Contraction Joints
- 700.02 Expansion Joint Layout - for Rigid Doweled Pavement at Bridges
- 700.03 Dowel Assembly
- 700.04 Concrete Pavement Header Board
- 700.05 Tying Proposed Pavement to Existing
- 710.01 Concrete Pavement - Station Marking
- 720.01 Concrete Shoulders - Stamped or Rolled Rumble Strips, Milled Rumble Strips

DIVISION 8 - INCIDENTALS

- 806.01 Concrete Right-of-Way Marker
- 806.02 Granite Right-of-Way Marker
- 806.03 Concrete Control of Access Marker
- 815.02 Subsurface Drain
- 815.03 Pipe Underdrain and Blind Drain
- 816.01 Concrete Pads - for Shoulder Drain Installation
- 816.02 Aggregate Shoulder Drain
- 816.03 Geocomposite Shoulder Drain
- 816.04 Markers for Drainage Structure and Concrete Pad (Shoulder Drains)
- 820.01 Funnel and Funnel Drain - 12" Metal Funnel
- 838.01 Concrete Endwall for Single and Double Pipe Culverts - 15" thru 48" Pipe 90 Skew
- 838.02 Concrete Endwall and Sluice Gate - 15" thru 36" Pipe 90 Skew
- 838.04 Conc. Endwall for Single & Double Pipe Culverts - 17"x13" thru 71"x47" Arch 90 Skew
- 838.05 Concrete 'L' Endwall for Single Pipe Culverts - 15" thru 48" Pipe
- 838.06 Concrete 'L' Endwall for Single Pipe Culverts - 17"x13" thru 71"x47" Pipe Arch
- 838.07 Conc. Endwall for Single & Double Pipe Culverts - 40"x31" thru 66"x51" Arch 90 Skew
- 838.08 Concrete 'L' Endwall for Single Pipe Culverts - 40"x31" thru 66"x51" Pipe Arch
- 838.10 Concrete Endwall for Outfall - 4", 6" or 8" Pipe
- 838.11 Brick Endwall for Single and Double Pipe Culverts - 15" thru 48" Pipe 90 Skew
- 838.14 Brick Endwall for Single & Double Pipe Culverts - 17"x13" thru 71"x47" Arch 90 Skew
- 838.15 Brick 'L' Endwall for Single Pipe Culverts - 15" thru 48" Pipe
- 838.16 Brick 'L' Endwall for Single Pipe Culverts - 17"x13" thru 71"x47" Pipe Arch
- 838.17 Brick Endwall for Single & Double Pipe Culverts - 40"x31" thru 66"x51" Arch 90 Skew
- 838.18 Brick Endwall for Single Pipe Culverts - 40"x31" thru 66"x51" Pipe Arch
- 838.20 Brick Endwall for Outfall - 4", 6" or 8" Pipe

- 838.21 Reinforced Concrete Endwall - for Single 54" Pipe 90 Skew
- 838.22 Reinforced Concrete Endwall - for Double and Triple 54" Pipes 90 Skew
- 838.27 Reinforced Concrete Endwall - for Single 60" Pipe 90 Skew
- 838.28 Reinforced Concrete Endwall - for Double and Triple 60" Pipes 90 Skew
- 838.33 Reinforced Concrete Endwall - for Single 66" Pipe 90 Skew
- 838.34 Reinforced Concrete Endwall - for Double and Triple 66" Pipes 90 Skew
- 838.39 Reinforced Concrete Endwall - for Single 72" Pipe 90 Skew
- 838.40 Reinforced Concrete Endwall - for Double and Triple 72" Pipes 90 Skew
- 838.45 Notes for Reinforced Concrete Endwall - Std. Dwg 838.21 thru 838.40
- 838.51 Reinforced Brick Endwall - for Single 54" Pipe 90 Skew
- 838.52 Reinforced Brick Endwall - for Double and Triple 54" Pipes 90 Skew
- 838.57 Reinforced Brick Endwall - for Single 60" Pipe 90 Skew
- 838.58 Reinforced Brick Endwall - for Double and Triple 60" Pipes 90 Skew
- 838.63 Reinforced Brick Endwall - for Single 66" Pipe 90 Skew
- 838.64 Reinforced Brick Endwall - for Double and Triple 66" Pipes 90 Skew
- 838.69 Reinforced Brick Endwall - for Single 72" Pipe 90 Skew
- 838.70 Reinforced Brick Endwall - for Double and Triple 72" Pipes 90 Skew
- 838.75 Notes for Reinforced Brick Endwall - Std. Dwg 838.51 thru 838.70
- 838.80 Precast Endwalls - 12" thru 72" Pipe 90 Skew
- 840.00 Concrete Base Pad for Drainage Structures
- 840.01 Brick Catch Basin - 12" thru 54" Pipe
- 840.02 Concrete Catch Basin - 12" thru 54" Pipe
- 840.03 Frame, Grates and Hood - for Use on Standard Catch Basin
- 840.04 Concrete Open Throat Catch Basin - 12" thru 48" Pipe
- 840.05 Brick Open Throat Catch Basin - 12" thru 48" Pipe
- 840.13 Concrete Bridge Approach Drop Inlet - 12" thru 24" Pipe
- 840.14 Concrete Drop Inlet - 12" thru 30" Pipe
- 840.15 Brick Drop Inlet - 12" thru 30" Pipe
- 840.16 Drop Inlet Frame and Grates - for use with Std. Dwg 840.14 and 840.15
- 840.17 Concrete Grated Drop Inlet Type 'A' - 12" thru 72" Pipe
- 840.18 Concrete Grated Drop Inlet Type 'B' - 12" thru 36" Pipe
- 840.19 Concrete Grated Drop Inlet Type 'D' - 12" thru 36" 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 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
- 840.29 Frames and Narrow Slot Flat Grates
- 840.30 Driveway Drop Inlet
- 840.31 Concrete Junction Box - 12" thru 66" Pipe
- 840.32 Brick Junction Box - 12" thru 66" Pipe
- 840.33 Angled Vane Grates and Frames
- 840.34 Traffic Bearing Junction Box - for Use with Pipes 42" and Under
- 840.35 Traffic Bearing Grated Drop Inlet - for Cast Iron Double Frame and Grates
- 840.36 Traffic Bearing Grated Drop Inlet - for Steel (840.37) Double Frame and Grates
- 840.37 Steel Grate and Frame
- 840.41 Spring Box - Concrete or Brick
- 840.45 Precast Drainage Structure
- 840.46 Traffic Bearing Precast Drainage Structure
- 840.51 Brick Manhole - 12" thru 36" Pipe
- 840.52 Precast Manhole - 4', 5' and 6' Diameter
- 840.53 Precast Manhole with Masonry Base - 12" thru 42" Pipe
- 840.54 Manhole Frame and Cover
- 840.66 Drainage Structure Steps
- 840.71 Concrete and Brick Pipe Plug
- 840.72 Pipe Collar
- 846.01 Concrete Curb, Gutter and Curb & Gutter
- 846.02 Drop Inlet Installation in Expressway Gutter
- 846.03 Funnel Drain Installation in Shoulder Berm Gutter
- 846.04 Drop Inlet Installation in Shoulder Berm Gutter
- 848.01 Concrete Sidewalk
- 848.02 Driveway Turnout - Radius Type
- 848.03 Driveway Turnout - Drop Curb Type
- 848.04 Street Turnout
- 848.05 Curb Ramp - Proposed Curb & Gutter
- 848.06 Curb Ramp - Existing Curb & Gutter
- 850.01 Concrete Paved Ditches
- 850.10 Guide for Berm Drainage Outlet - 15" and 18" Pipe
- 850.11 Guide for Berm Drainage Outlet - 24" and 30" Pipe
- 852.01 Concrete Islands
- 852.02 Concrete Mountable Median - for Use with Rigid or Flexible Pavement
- 852.04 Method for Placement of Drop Inlets in Grassed Median - Using 1'-6" Curb and Gutter
- 852.05 Median Curb for Catch Basin - for Use with 1'-6" Curb and Gutter

- 852.06 Method for Placement of Drop Inlets in Concrete Islands
- 852.10 Median Construction - with Curb and Gutter
- 854.01 Double Faced Concrete Barrier - Types I, II, III and IV
- 854.02 Double Faced Concrete Barrier - Types 'T', 'T1' and 'T2'
- 854.04 Concrete Median Barrier - Precast Permanent
- 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
- 865.01 Cable Guiderail
- 866.01 Chain Link Fence - 4', 5' and 6' High Fence
- 866.02 Woven Wire Fence - with Wood Post
- 866.03 Woven Wire Fence - with Steel Post
- 866.04 Barbed Wire Fence with Wood Posts (2 - 7 Strands)
- 866.05 Glare Screen - Chain Link Fabric/Guardrail Mounted
- 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