



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

JOSH STEIN
GOVERNOR

DANIEL H. JOHNSON
SECRETARY

DATE: June 18, 2026

TO: NCDOT - All Employees (Preconstruction, Construction, CS&D)

FROM: Steve T. Smallwood, PE State Roadway Design Engineer
Jon Weathersbee, PE State Contract Officer

SUBJECT: Roundabout Curb Details and Provisions

Signed by: Steve Smallwood
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Signed by: Jon Weathersbee
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This memo provides notice that new Rolled Curb and Modified Curb and Gutter details have been developed for use on roundabout projects. Their use is recommended as a best practice to promote consistency and to accommodate the recommended 12-inch truck apron. The ultimate goal is for roundabouts to have an extended life and reduced maintenance costs.

The provisions and details are available as of July 2026 turn-in for October 2026 and later lettings. Moving forward, please incorporate these details in roundabout designs for projects that have not yet reached the combined or right of way field inspection. Design considerations for incorporating these changes include updating the pavement design, including these details in the plans, altering pay items and adjusting quantities.

The details can be found on the [2024 Roadway Standard Drawing website](#) under "Roundabout Details". They are also attached to this memo for your convenience.

Key guidance includes:

- The 3-inch rolled curb next to the truck apron is standard.
- A 2-inch rolled curb can alternately be used where a high percentage of low-clearance truck-trailer traffic is expected.
- The Curb and Gutter (Modified) detail is used in all cases to account for the increased pavement depth between curbs due to the 12-inch truck apron.
- Adding the roundabout typical section named "TYP – Roundabout Basic" from the roadway cell library to the roadway plans. See the attached roundabout typical section sample that follows the Roundabout Details for reference.

The following two provisions have been created for this work, SP08 R004 ___" ROLLED CONCRETE CURB & SP08 R005 CONCRETE TRUCK APRON, ROLLED CONCRETE CURB AND CURB AND GUTTER (MODIFIED) as found on the [2024 Special Provisions website](#). Provisions may be applicable to projects that have alternate details for the roundabout.

The pay item associated with SP08 R004 is 2753000000-E for the Linear Foot ___" Rolled Concrete Curb.

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1020 BIRCH RIDGE DR.
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The pay items associated with SP08 R005 are 2738000000-E for the Square Yard ____" Concrete Truck Apron and 2752000000-E for the Linear Foot 2' 6" Concrete Curb and Gutter (Modified).

Please incorporate these details where appropriate in upcoming roundabout designs. Their use is encouraged to support uniformity and reduce construction and maintenance issues.

If you have any questions, feel free to reach out to our designee in the Contract Standards and Development Plans and Standards Management Unit. Please contact Roger Kluckman at rkluckman@ncdot.gov or by phone at 919-707-6923.

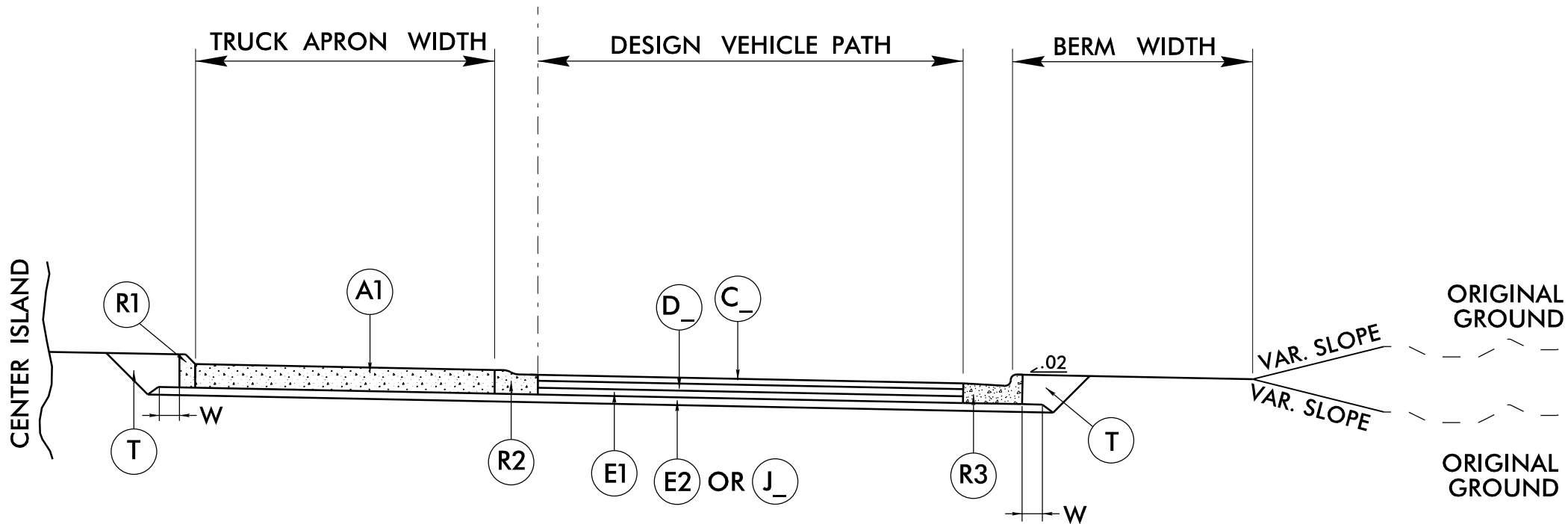
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PAVEMENT SCHEDULE			
A1	12" CONCRETE TRUCK APRON	R1	8" X 18" CONCRETE CURB*
C_	SURFACE COURSE	R2	ROLLED CURB
D_	INTERMEDIATE COURSE	R3	2'-6" MODIFIED C&G
E1	BASE COURSE	T	EARTH MATERIAL
E2/ J_	BASE COURSE/ABC		

SAMPLE ROUNDABOUT TYPICAL SECTION

PROJECT REFERENCE NO.	SHEET NO.
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

*WHEN CONCRETE TRUCK APRON IS LESS THAN 12", ADJUST THE 8" X 18" CURB BY REDUCING THE DEPTH ACCORDINGLY



W FOR ASPHALT = 6"
W FOR ABC = 12"

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