

Private Roadway Design Standards

Technical Manual

02-2020



MATRIX TABLE FOR PRIVATE ROAD ROW SPECIFICATIONS

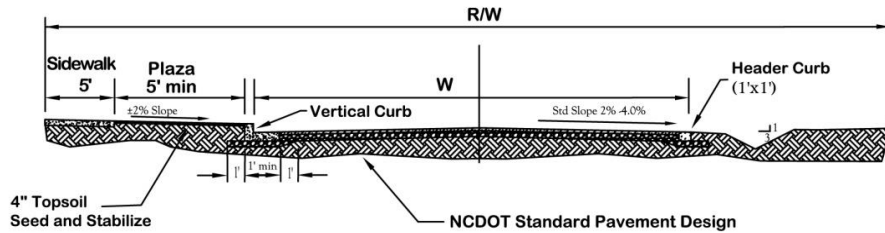
ROAD DESIGN STANDARDS

	Alley	Cul-de-sac	Local	Collector
ROW (R)	20	45	45	50
Travelway Width (W)	18	22	24	26
Minimum Horizontal Centerline Radius	55	100	100	200
Minimum Edgeline Radius at Corners	N/A	15	25	30
Pavement Design Standard (NCDOT)	Local	Local	Local	Collector

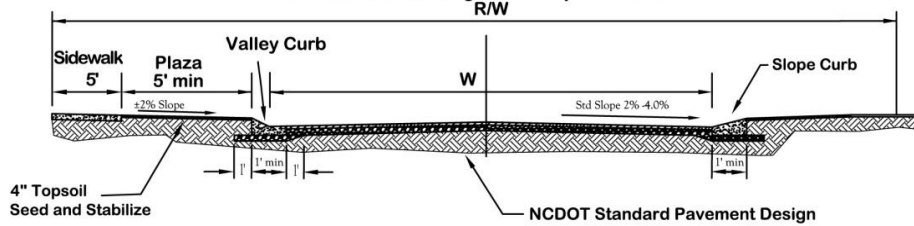
General Standards:

Minimum Offset Between Centerlines of Intersections	200
Tangent Length Between Horizontal Curves	100
Maximum Cul-de-sac Length	500'
Plaza Width (between back of curb and sidewalk)	5'
Sight Distance Triangle at Intersections	10'x70'

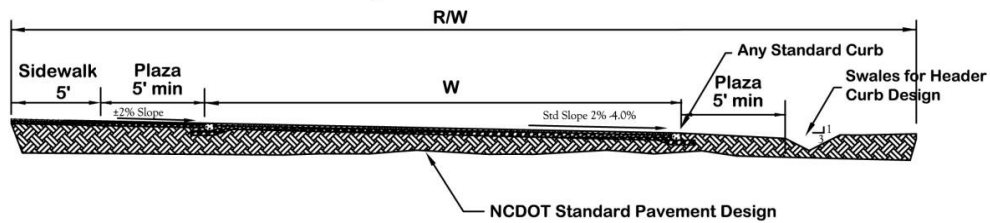
Crown w/ Vertical or Header Curb



Crown w/ Valley or Slope Curb



Superelevated



Notes:

1. Lane width (W) and Right-of-way width (R/W) as given in the Subdivision Ordinance
2. All concrete to be 3000 psi.
3. Use NCDOT Subdivision Manual for minimum pavement design.
4. Use the standard NCDOT Curb Details.
5. Use the standard NCDOT Handicap Ramp Detail.

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



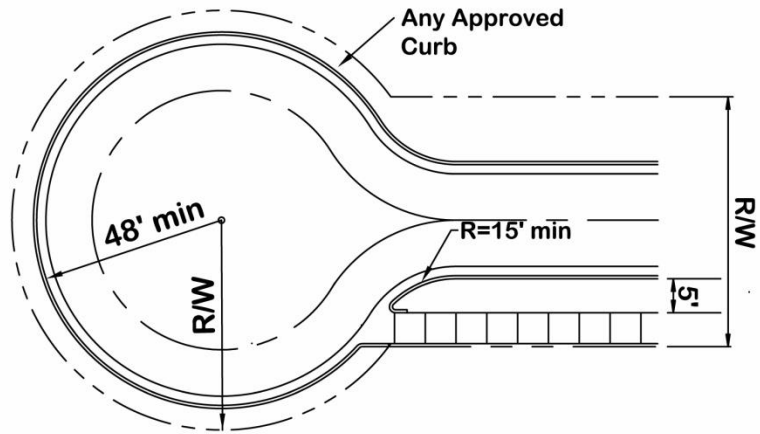
Private Street Section Standard Detail

NEW HANOVER COUNTY, NORTH CAROLINA
ENGINEERING DEPARTMENT
230 GOVERNMENT CENTER DRIVE, SUITE 160
WILMINGTON, NC 28403
OFFICE: (910) 798-7139 FAX: (910) 798-7051

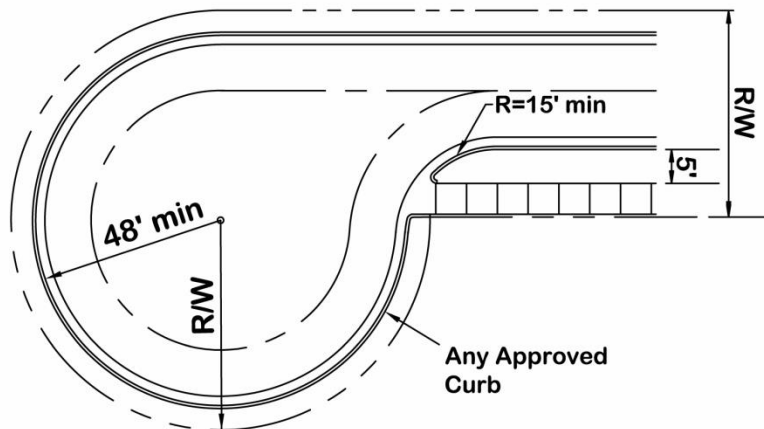
REV:
03/04/10
SHEET NO:
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DATE:
02/05/10
SCALE:
NONE
DRAWN BY:
B. Karabin
CHECKED BY:
J. Iannucci
PROJECT NO. :

Circular



Circular Offset



REVISIONS

REV	DESCRIPTION	DATE	APPROVED



**Residential
Cul-de-sac
Standard Detail**

NEW HANOVER COUNTY, NORTH CAROLINA
ENGINEERING DEPARTMENT
230 GOVERNMENT CENTER DRIVE, SUITE 160
WILMINGTON, NC 28403
OFFICE: (910) 798-7139 FAX: (910) 798-7051

REV:
03/04/10
SHEET NO:
1 / 1

DATE:
02/08/10
SCALE:
NONE
DRAWN BY:
B. Karabin
CHECKED BY:
J. Iannucci
PROJECT NO. :