NCDOT District Engineer's Office Contact List

Div.	Dist.	Counties	Telephone
1	1	Camden, Currituck, Dare,	252-331-4737
		Gates, Pasquotank,	
		Perquimans	
	2	Bertie, Hertford,	252-332-4021
		Northampton	
	3	Chowan, Hyde,	252-789-6150
		Martin, Tyrrell, Washington	
2	1	Beaufort, Pitt	252-623-5300
	2	Carteret, Craven, Pamlico	252-649-6500
	3	Greene, Jones, Lenoir	252-623-5300
3	1	Onslow, Pender	910-467-0505
	2	Duplin, Sampson	910-682-5100
	3	Brunswick, New Hanover	910-398-9100
4	1	Edgecombe, Halifax	252-583-4230
	2	Nash, Wilson	252-462-2580
	3	Johnston, Wayne	919-739-5300
5	1	Wake	919-733-3213
	2	Durham, Granville, Person	919-220-4750
	3	Franklin, Vance, Warren	252-598-5100
6	1	Robeson	910-618-5546
	2	Cumberland, Harnett	910-364-0601
	3	Bladen, Columbus	910-642-3760
7	1	Alamance, Orange	336-570-6833
	2	Guilford	336-487-0100
	3	Caswell, Rockingham	336-520-6060
8	1	Chatham, Randolph,	336-318-4025
		Montgomery	
	2	Hoke, Lee, Moore,	910-944-7621
		Richmond, Scotland	
9	1	Davidson, Rowan	704-630-3200
	2	Davie, Forsyth, Stokes	336-747-7900
10	1	Cabarrus, Stanly	704-983-4360
	2	Mecklenburg	980-523-0000
	3	Anson, Union	704-218-5100
11	1	Alleghany, Surry, Yadkin	336-530-6018
	2	Avery, Caldwell, Watauga	828-268-6026
	3	Ashe, Wilkes	336-903-9172
12	1	Cleveland, Gaston	980-552-4104
	2	Alexander, Iredell	704-380-6040
	3	Catawba, Lincoln	704-748-2400
13	1	Burke, Mcdowell, Mitchell,	828-803-6100
		Rutherford	
	2	Buncombe, Madison,	828-298-2741
		Yancey	
14	1	Henderson, Polk,	828-891-7911
		Transylvania	
	2	Haywood, Jackson, Swain	828-497-7333
	3	Cherokee, Clay, Graham,	828-321-4105
		Macon	



NC DMV-349 Collision Reports

When completing a collision report form for a collision, it is essential that the "Location" information be collected as accurately as possible. All required data should be provided as outlined in the Crash Report Instruction Manual provided by the North Carolina Division of Motor Vehicles. Failure to provide complete and accurate information can result in inaccurate crash data which is likely to affect the identification of locations in need of safety improvements as well as project funding decisions.

It is also imperative that the investigating agency submit all completed reports to the North Carolina Division of Motor Vehicles within 10 days of the collision as required by North Carolina General Statute 20-166.1.

Prepared by:

The Traffic Safety Unit of the Transportation Mobility & Safety Division

North Carolina Department of Transportation

> 1501 Mail Service Center Raleigh, NC 27699-1501

For more information, call us toll free at 1-877-DOT-4YOU, or visit our web site at www.ncdot.gov

Download the latest version of this brochure at:

https://connect.ncdot.gov/resources/safety/TrafficSafetyResources/RoadsideSafetyDevicesEstimatedCostBrochure2019.pdf



Roadside Safety Devices



Fourth Edition

Median Barriers



Shoulder Guardrail



Roadside Signs

A Guide to Estimating Replacement Costs and Damages

Overview

This reference guide has been produced by the North Carolina Department of Transportation (NCDOT) to provide law enforcement officials with a more accurate method of assessing actual damages and repair/replacement costs to roadside safety devices to be included on the DMV-349, North Carolina Collision Report form.

By providing a more accurate estimate of actual damages, law enforcement officials can greatly assist the NCDOT in its efforts to recuperate these costs from the appropriate parties.

Guardrail costs included in this guide DO NOT contain mobilization, traffic control and any other incidental costs associated with making the specified repairs. Please add \$1,600 to any guardrail cost estimate once the estimate is complete.

General Notes

This reference guide provides general repair and/or replacement cost estimates for common roadside safety devices. However, if damage to a device listed in the guide exceeds or does not match any of the descriptions, please contact the appropriate NCDOT District Engineer†. Your county's District Engineer can also assign a repair or replacement cost for items not identified in this guide such as damage to a bridge, culvert, signal controller, etc.

Disclaimer

This brochure is intended only as a reference guide to provide law enforcement and others with general pricing information for Roadside Safety Devices. Actual repair/replacement cost may vary based upon current pricing at the time of damage.

Median Barrier Systems

There are many different guardrail systems that can be utilized for median barrier protection. These include variations of single faced W-Beam guardrail, double faced W-Beam guardrail² and cable guardrail³. Shown below are representative pictures of each type of median barrier along with cost estimates for repairing/replacing each type.

Typical Median Barrier Examples







¹Single Faced W-Beam

²Double Faced W-Beam

³Cable Guardrail

Median Barrier Repair Costs

Barrier Type	Estimated Cost	Comments		
¹ Single Faced	\$900 / 25 ft. section	Must be replaced in		
W-Beam		increments of 25 foot		
		sections (see cost table).		
² Double Faced	\$1,700 / 25 ft.	Must be replaced in		
W-Beam	section	increments of 25 foot		
		sections (see cost table).		
³ Cable	\$500 / post	Count the total number of		
Guardrail		posts damaged and		
		multiply by \$500.		
Concrete	\$2,500 / hit	Cost figure to be used		
Jersey Barrier		when repair work will be		
		required.		

Median Barrier Cost Multiplier Table

(for Single & Double Faced W-Beam & Shoulder Guardrail)

# Sections	Est. Cost	# Sections	Est. Cost
1	\$900	6	\$5,400
2	\$1,800	7	\$6,300
3	\$2,700	8	\$7,200
4	\$3,600	9	\$8,100
5	\$4,500	10	\$9,000

- This table may be used for either single faced w-beam or shoulder guardrail.
- For double faced guardrail, count the number of damaged sections and double the cost in the above table.

Shoulder Guardrail

For typical guardrail (normally located on the outside shoulders) the repair costs are as follows:

Device Type	Cost	Comments
Normal Shoulder Guardrail	\$900 / 25 ft. section	Must be replaced in increments of 25 foot sections (see cost table)
Oddididii		Scotions (See Cost table)

(See Median Barrier Cost Multiplier Table)

Guardrail End Treatments & Crash Attenuators

Guardrail end treatments are located at both the beginning and the end of a section of guardrail and come in many different configurations. Crash attenuators are located at the approaches to bridges or other structures. Replacement costs can vary, but for the purposes of this guide, \$3,400 per end treatment and \$24,600 per end attenuator will be utilized.

End Treatment Examples







Sign Replacement

Estimated replacement costs for roadway signs are given in the table below and include the cost for both the signs and the posts.

Description	Example	Cost
30"x30" regulatory signs w/ post	Stop sign on a secondary route	\$250 each
48"x48" regulatory signs w/ posts	Speed limit signs, merging signs on an Interstate route	\$350 each
Interstate guide signs w/ breakaway posts	Typically these signs are 150-200 sq. ft. or larger	\$15,000 each

[†] To determine which NCDOT District Engineer to call, locate your county on the NCDOT Division Map on the other side of this guide. Cross reference the Division number from the map to the NCDOT District Engineer's Office Contact list. Locate your county and the appropriate District office.