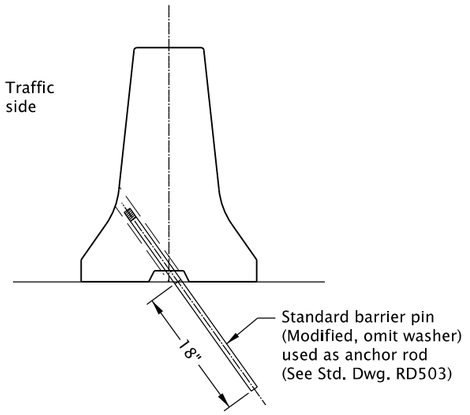
14-JUL-2023

RD516.dgn

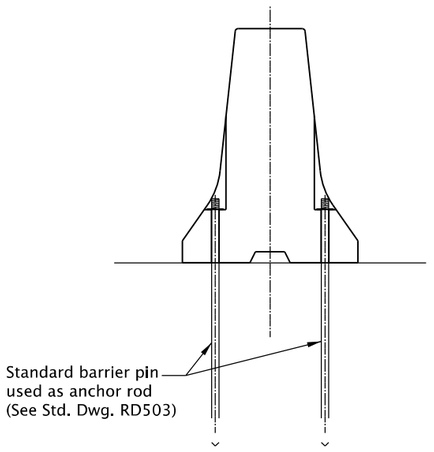
METHODS OF SECURING PRECAST CONCRETE BARRIER TO ROADWAY

(See general note 1)



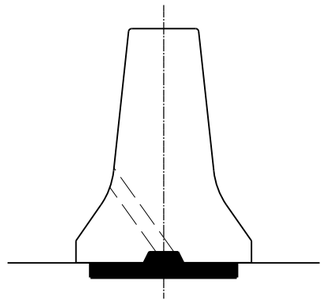
SHOULDER INSTALLATION
Secured using anchor rods (Angled)
Not allowed in narrow medians, see general notes 1 and 6

PRECAST CONCRETE BARRIER
(See Std. Dwg. RD503)



MEDIAN INSTALLATION
Secured using anchor rods (Vertical)
(See general note 1)

PRECAST CONCRETE BARRIER
(See Std. Dwgs. RD503 & RD515)



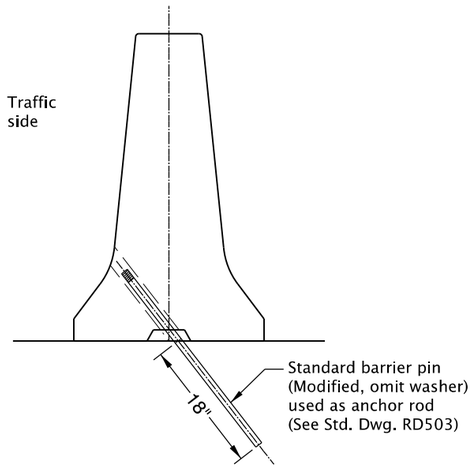
THIS DETAIL IS RETAINED FOR MAINTENANCE PURPOSES.

SHOULDER OR MEDIAN INSTALLATION
Secured using grout
(See general note 1)

PRECAST CONCRETE BARRIER
(See Std. Dwg. RD503)

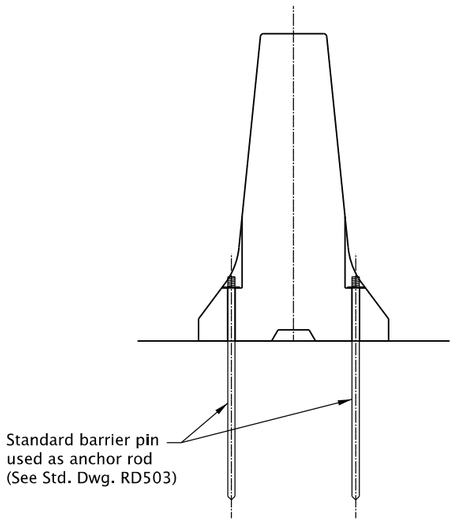
METHODS OF SECURING PRECAST TALL (42") CONCRETE BARRIER TO ROADWAY

(See general note 1)



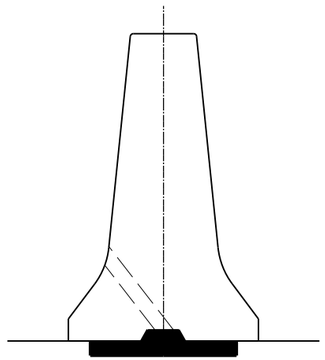
SHOULDER INSTALLATION
Secured using anchor rods (Angled) not allowed in narrow medians, see general notes 1 and 6

PRECAST TALL (42") CONCRETE BARRIER
(See Std. Dwgs. RD545 and RD546)



MEDIAN INSTALLATION
Secured using anchor rods (Vertical)
(See general note 1)

PRECAST TALL (42") CONCRETE BARRIER
(See Std. Dwgs. RD545 and RD515)



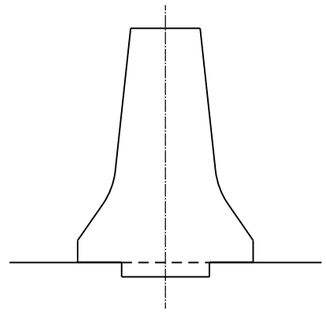
THIS DETAIL IS RETAINED FOR MAINTENANCE PURPOSES.

SHOULDER OR MEDIAN INSTALLATION
Secured using grout
(See general note 1)

PRECAST TALL (42") CONCRETE BARRIER
(See Std. Dwgs. RD545 and RD546)

GENERAL NOTES FOR ALL DETAILS ON THIS SHEET:

1. *THIS STANDARD DRAWING IS INTENDED TO SHOW ACCEPTABLE METHODS OF SECURING CONCRETE BARRIER TO ROADWAY FOR TEMPORARY INSTALLATION AND MAINTENANCE PURPOSES ONLY. DO NOT USE FOR NEW PERMANENT INSTALLATIONS. See appropriate guardrail standard drawings) for details not shown.*
2. *Secure concrete barrier to roadway when any of the following conditions exist:*
   - *a) Barrier deflection requirements per Std. Dwg. RD503 cannot be obtained, or*
   - *b) When required by plans, or*
   - *c) As directed by the Engineer.*
3. *Select one of the securing methods shown. For details not shown, see the standard drawing(s) referenced for the selected method.*
4. *Securing concrete barrier to roadway is in addition to connections between adjacent concrete barrier sections, bridge rails, retaining walls, and similar existing or constructed objects.*
5. *Temporary concrete barrier to be precast concrete median barrier with pin and loop assembly.*
6. *Precast concrete barrier used in medians less than 8 feet in width (as measured between nearest fog lines) shall be secured to roadway to resist impacts from both sides.*
7. *Anchor rods are standard barrier pins, modified for shoulder installation, as shown.*
8. *Normal permanent installation of concrete barrier is on top of finish grade, to provide 3 inch vertical reveal. Modify placement when required by plans, or as directed.*
9. *All pins, bolts, dowels, loop bars, and connectors shall be hot-dip galvanized after fabrication.*



SHOULDER OR MEDIAN INSTALLATION
Secured by continuous shear key
(See general note 1)

METHODS OF SECURING CAST-IN-PLACE CONCRETE BARRIER TO ROADWAY
(See Std. Dwg. RD505)

The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without first consulting a Registered Professional Engineer.

All materials shall be in accordance with the current Oregon Standard Specifications.

OREGON STANDARD DRAWINGS

SECURING CONCRETE BARRIER TO ROADWAY FOR TEMPORARY INSTALLATION AND MAINTENANCE PURPOSES ONLY

2024

DATE	REVISION DESCRIPTION
01-2023	REVISED NOTES
06-2023	REVISED NOTES AND TITLE CHANGE

CALC. BOOK NO. N/A | SDR DATE 14-JUL-2023 | **RD516**

Effective Date: June 1, 2026 - November 30, 2026