





- ① USE THESE ANCHORS WITH STANDARD CONCRETE BARRIER RAIL (C.B.R.), AS SHOWN IN DTL. DWG. NO. 605-00, WHEN DEFLECTION OF THE SYSTEM NEEDS TO BE LIMITED.
- ② CAST THE PINNING HOLES INTO THE C.B.R. USING 2" [50.8] I.D. STEEL PIPE. DO NOT DRILL THE PINNING HOLES.
- ③ USE STEEL CONFORMING TO AASHTO M 270 [270M], GRADE 36 [250]OR BETTER FOR PINS AND ATTACHMENT ANGLES. GALVANIZE IN ACCORDANCE WITH SUBSECTION 711.08.
- (4) USE TYPE 2 ANCHORS WHEN A DEEPER EMBEDMENT (5 1/2" [140]) INTO THE BRIDGE DECK OR CONCRETE PAVEMENT IS
- (S) ADJUST THE LOCATION OF THE TYPE 2 OR TYPE 3 ANCHORS TO AVOID THE MAIN REINFORCING WHEN PLACED ON BRIDGE DECK.
- (6) USE SHIMS TO PROPERLY FIT THE TYPE 2 AND TYPE 3 ANCHORS TO THE BARRIER AND ROADWAY SURFACES.
- 7) AFTER REMOVING TYPE 2 OR TYPE 3 ANCHORS, CLEAN THE HOLES IN THE CONCRETE PAVEMENT AND FILL WITH AN APPROVED NON-SHRINK OR EPOXY GROUT.
- (B) REMOVE TYPE I ANCHORS BY FIRST DRIVING THE STEEL PINS DOWN THROUGH THE BARRIER TO ALLOW LIFTING OF THE BARRIER WITHOUT INTERFERENCE. THEN REMOVE THE PINS FROM THE PAVEMENT AND FILL THE PINNING HOLES WITH AN APPROVED SEALANT
- (3) DO NOT INSTALL ANCHORED CONCRETE BARRIER RAIL FOR OBSTACLES WITHIN 3.5' [1.1 m]OF THE BASE (TRAFFIC SIDE) OF THE RAIL.

UNITS SHOWN IN BRACKETS [] ARE METRIC AND ARE IN MILLIMETERS (mm) UNLESS OTHER UNITS ARE SHOWN.

S	DETAILED	DRAWING
	REFERENCE	DWG. NO.
	REFERENCE STANDARD SPEC. SECTION 554,605	605-05

CONCRETE BARRIER RAIL ANCHORS

EFFECTIVE: SEPTEMBER 2014 --REVISED--MARCH 2017 MONTANA DEPARTMENT OF TRANSPORTATION







