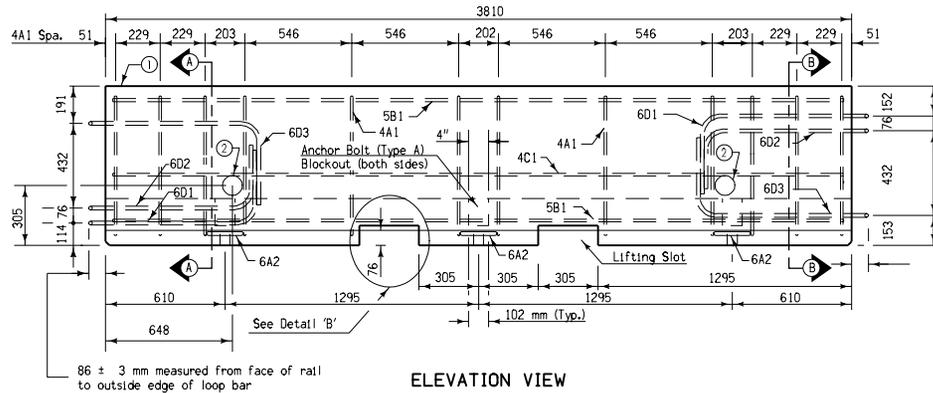
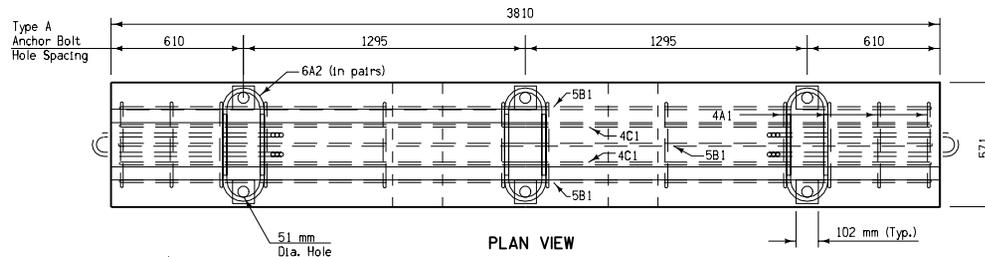


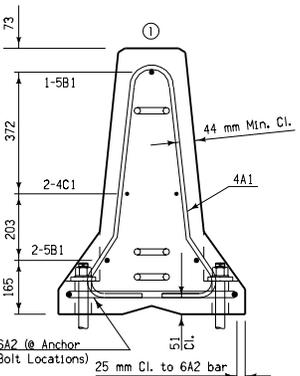
END VIEW



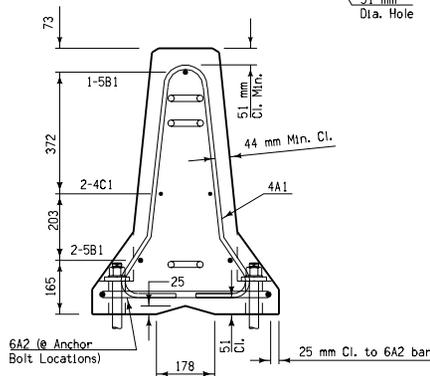
ELEVATION VIEW



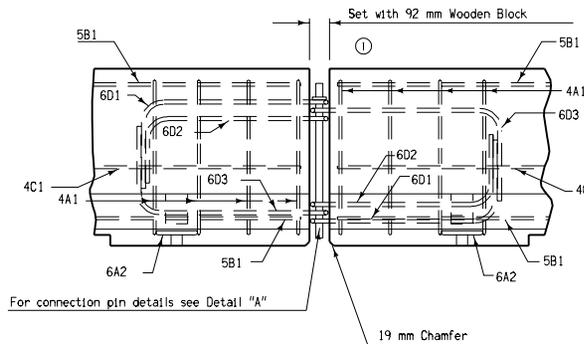
PLAN VIEW



SECTION A-A
TYPICAL SECTION
Stirrup Placement



SECTION B-B
TYPICAL SECTION
Stirrup Placement



DETAILS OF BARRIER CONNECTION

GENERAL NOTES:

These details are for the fabrication and installation of temporary concrete barrier rail. Details shown are typical.

All reinforcement is Grade 60, ASTM A615M, except the loop bars 6D1, 6D2 and 6D3. The loop bars shall be 19 mm smooth steel bars with a minimum yield of 420 MPa, a tensile strength of not less than 1.25 times the yield strength but a minimum of 550 MPa, a minimum 14% elongation in 203 mm inches, and passing a 180 degree bend test using a 3.5D pin bend diameter. The loops shall be installed within 3 mm of the plan dimensions.

The Contractor shall provide for an approved monitoring schedule with a person on call and available 24 hours a day, each day of the week, to realign barrier which has been struck. Initiation of service shall be within one hour of notification of need.

Markers shall be furnished and installed by the Contractor. Markers shall be placed on the barrier as recommended by the manufacturer and as shown in the Marker Placement Detail. The markers shall be installed at 3810 mm spacing and face oncoming traffic. Refer to Details of Barrier Placement. The contractor shall maintain the markers and promptly repair or replace any damaged or missing units. All costs for furnishing, installing and maintaining markers shall be included in the price bid for the temporary barrier rail.

Unless stated otherwise in the plans, the barrier rail sections shall remain the property of the Contractor and at the completion of the work shall be removed from the site by the Contractor.

ANCHOR BOLTS: When indicated in Tabulation 108-33, use 28 mm diameter Grade 55, ASTM F-1554 Anchor Bolts with heavy hex nut and washer (ASTM A36M).

LIFTING SLOTS: Lifting slots shall be constructed where specified on the plans to facilitate the drainage of water after installation on the roadway.

At no time shall the barriers be lifted, moved, etc. by the use of the loop bars: 6D1, 6D2 or 6D3.

Contract Item is "Temporary Barrier Rail, Concrete".

- ① Per Materials I, M, 571, one end of each rail shall be permanently marked with the following information:
 - RE-71
 - Type A
 - Manufacturer
 - Date Manufactured (month and year)
- ② Lifting Hole, 102 mm PVC Pipe.

METRIC VERSION	Iowa Department of Transportation Highway Division	
	STANDARD ROAD PLAN RE-71(1)	
	REVISION: Changed number of loop bars and added strap tie down.	REVISION NO. 7
	<i>William J. Steen</i> APPROVED BY DESIGN METHODS ENGINEER	REVISION DATE 04-15-03
F-SHAPE (PRECAST) TEMPORARY CONCRETE BARRIER RAIL (PAGE 1 OF 2)		