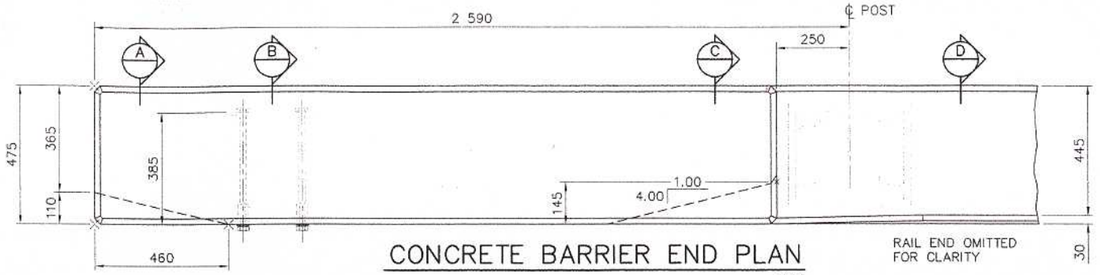
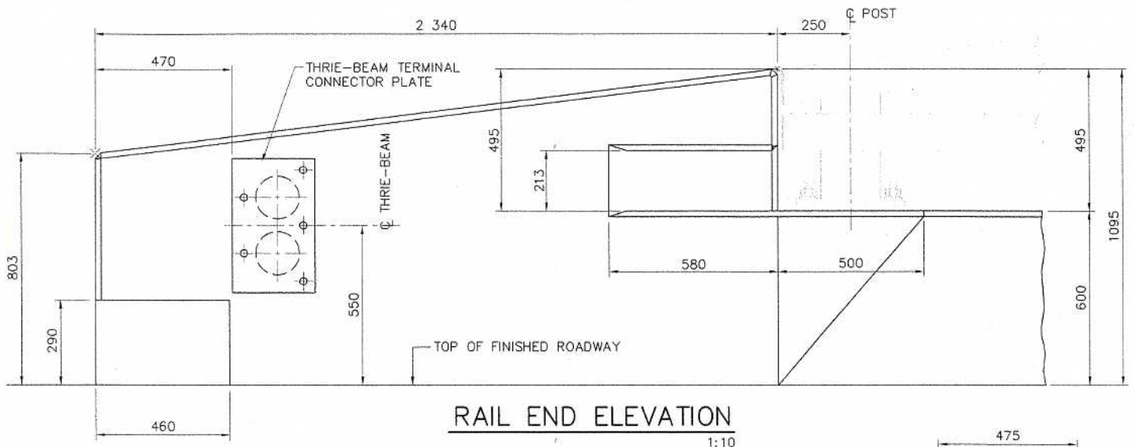
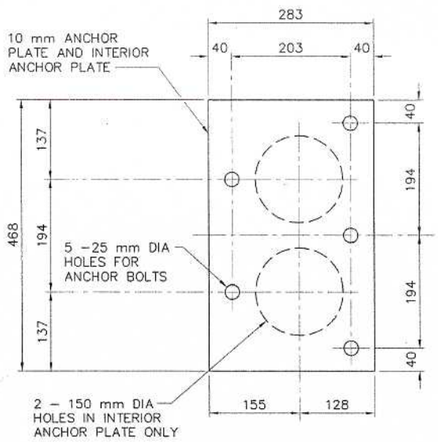
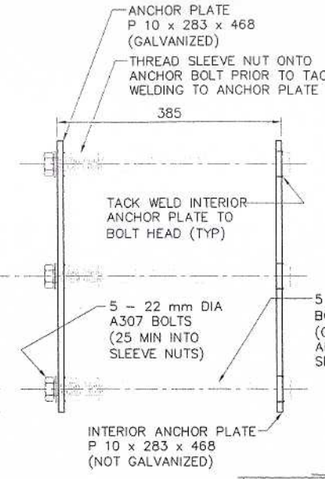


CONCRETE BARRIER END PLAN
1:10



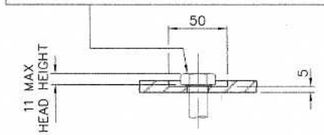
RAIL END ELEVATION
1:10





THRIE BEAM TERMINAL CONNECTOR PLATE ANCHORAGE ASSEMBLY
1:5

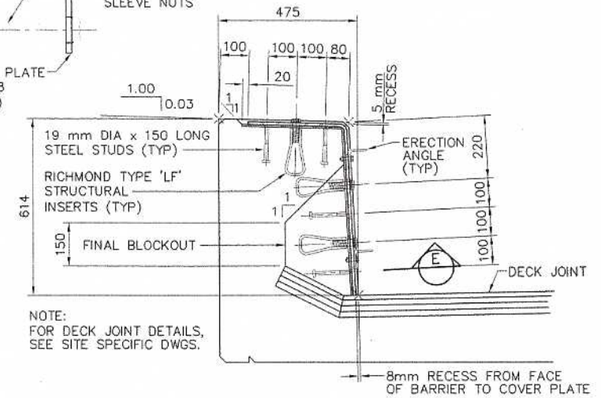
16 mm DIA (5/8") TYPE 304 STAINLESS STEEL HEX HEAD BOLT COUNTERSUNK INTO 50 mm DIA RECESS. INSTALL USING "KOP-R-KOTE" OR "NEVER SEEZ" ON THREADS AND UNDER HEADS. SNUG TIGHTEN BOLTS IN SHOP FOR TRANSPORTATION.



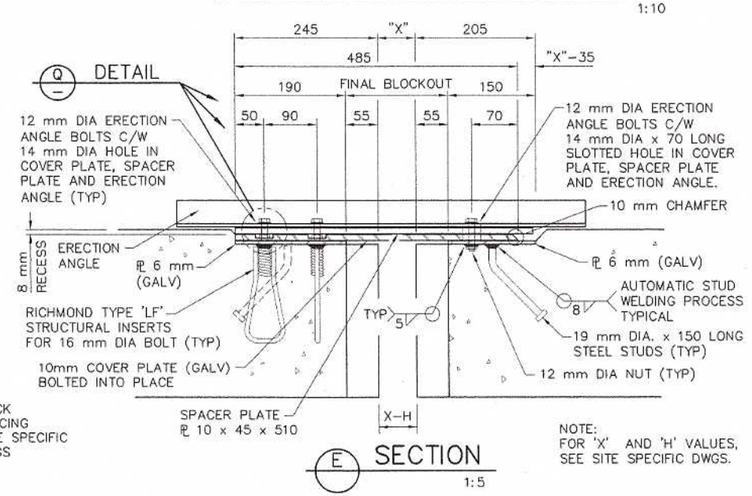
Q DETAIL
NTS

GENERAL NOTES

1. ALL CONCRETE SHALL BE CLASS HPC (f'c = 45 MPa) SULPHATE RESISTANT (TYPE HS) UNLESS NOTED OTHERWISE.
2. ALL CORNERS SHALL HAVE A 20 mm CHAMFER OR FILLET UNLESS NOTED OTHERWISE.
3. ALL REINFORCING STEEL SHALL HAVE 50 mm CLEAR COVER UNLESS NOTED OTHERWISE.
4. ALL REINFORCING STEEL TO BE EPOXY COATED.
5. ALL REINFORCING STEEL SHALL CONFORM TO CAN/CSA-G30.18, GRADE 400.

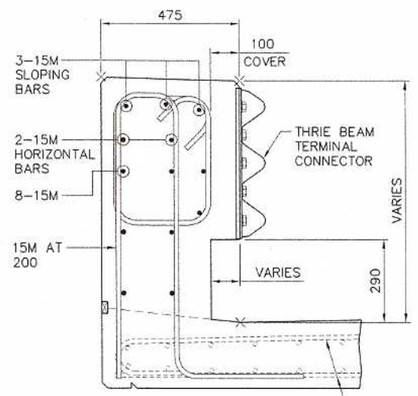


TYPICAL SECTION AT BRIDGE BARRIER DECK JOINT
1:10

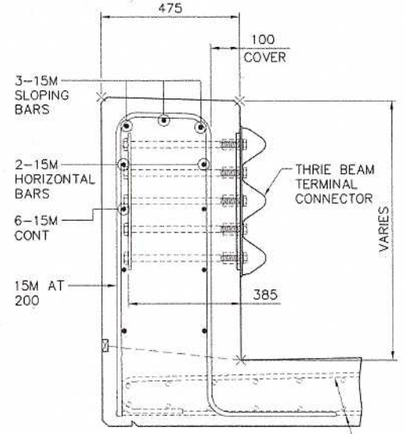


E SECTION
1:5

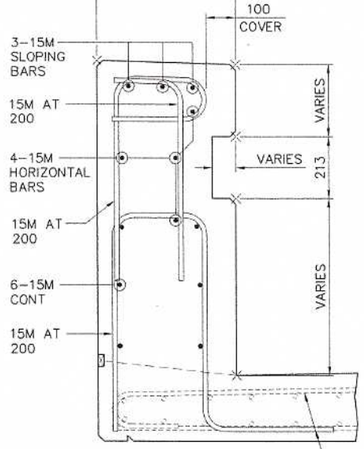
NOTE:
FOR 'X' AND 'H' VALUES, SEE SITE SPECIFIC DWGS.



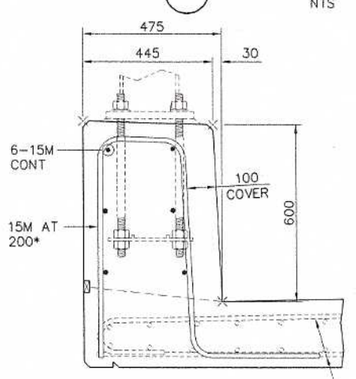
A SECTION
1:10



B SECTION
1:10

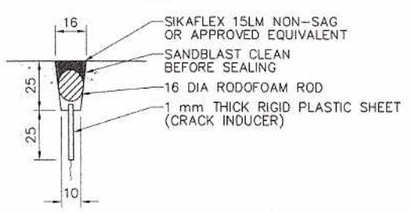


C SECTION
1:10



D SECTION
1:10

* NOTE:
WITHIN 1 000 mm OF CONTROL JOINTS OR EXPANSION JOINTS, PROVIDE 15M BARS IN PAIRS.



CONTROL JOINT DETAIL
NTS

NOTE:
AFTER THE ENTIRE DECK HAS BEEN CAST, THE CONCRETE BARRIER SHALL BE PLACED CONTINUOUSLY WITH FORMED CONTROL JOINTS AT 3000 mm SPACING. LAST BARRIER SECTION SHALL BE LONGER THAN 3000 mm AT BRIDGE ENDS. AT CONTROL JOINTS, LONGITUDINAL REINFORCEMENT SHALL BE DISCONTINUOUS AND HAVE 50 mm CONCRETE COVER FROM THE CENTERLINE OF THE JOINTS.

• WORK THESE DRAWINGS TOGETHER: S-1702-06, S-1703-06, S-1704-06 AND S-1705-06

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PERMIT TO PRACTICE
UMA ENGINEERING LTD.
Signature J. Cleyne
Date May 8/06
PERMIT NUMBER: P329
The Association of Professional Engineers, Geologists and Geophysicists of Alberta.

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PROFESSIONAL ENGINEER ALBERTA DESMOND A. NYE
DATE 4 MAY 2006

CHECKER
PROFESSIONAL ENGINEER ALBERTA ROBERT JOHN RAMMAN
DATE May 4, 2006

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1			

RECOMMENDED
DIRECTOR BRIDGE ENGINEERING
Tom Loo

APPROVED
EXECUTIVE DIRECTOR
TECHNICAL STANDARDS BRANCH
Allan Kwan
DATE May 23, 2006

Alberta INFRASTRUCTURE AND TRANSPORTATION

PL-3 DOUBLE TUBE TYPE BRIDGERAIL CONCRETE BARRIER DETAILS

FSC8693

DATE	SHEET	DRAWING
2005-11-01	3 of 4	S-1704-06