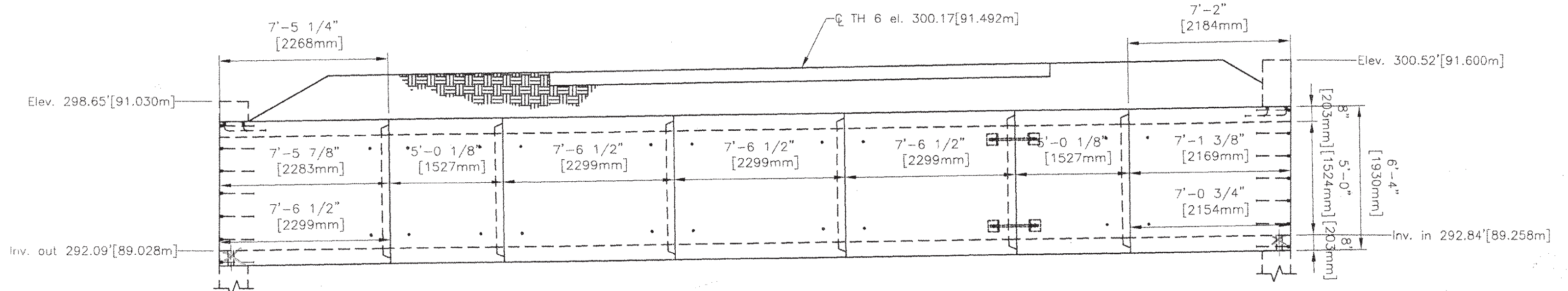


DEVELOPED PLAN

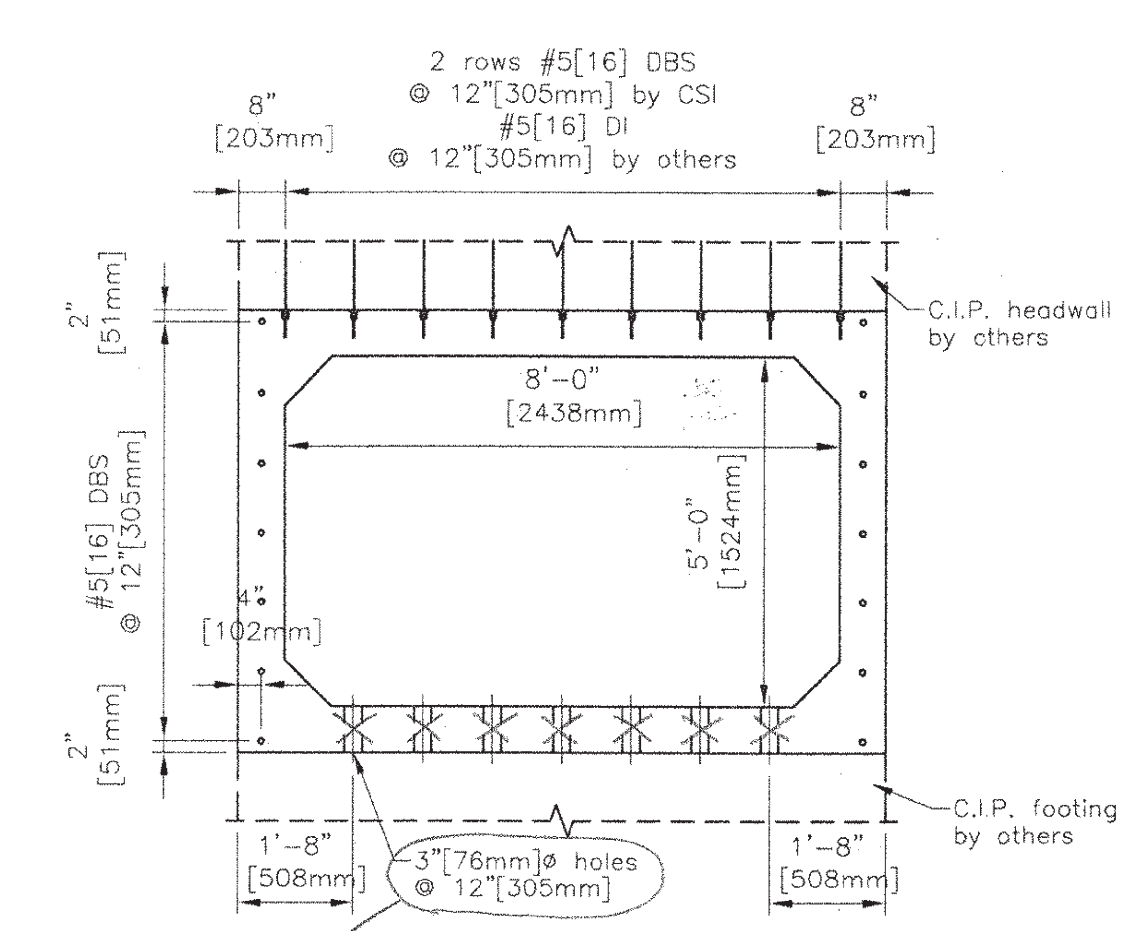


ELEVATION

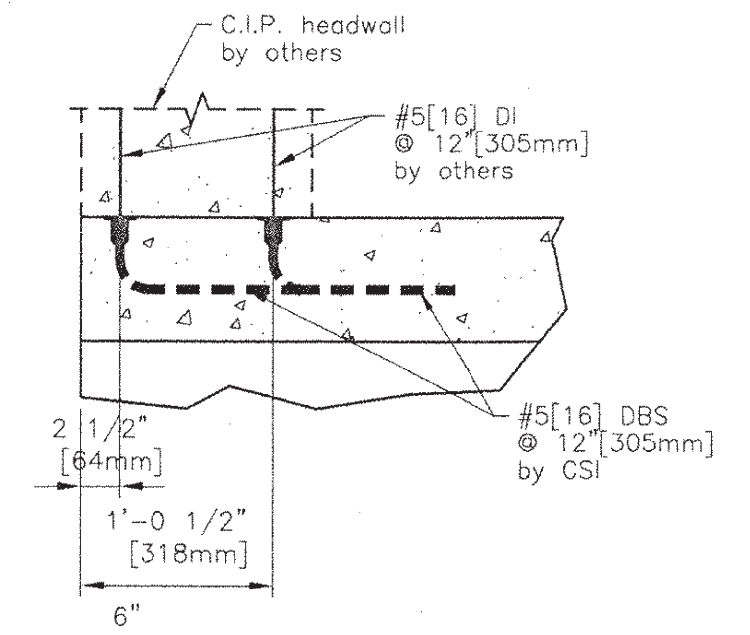
- GENERAL NOTES:**
- Structure designed and built in accordance with AASHTO "Standard Specifications for Highway Bridges" and ASTM C1433
  - Design Parameters
    - Live load: AASHTO HS25[MS 22.5]
    - Earth Cover: 1' to 2'[0.305 to 0.610m]
    - Concrete: Design strength  $f_c = 5000$  psi [34.47MPa]
    - Unit weight = 150 pcf [2403kg/m<sup>3</sup>]
    - Reinforcing: ASTM A615M (rebar), grade 420
    - ASTM A185 (WWF)  $f_y = 60$  ksi [414MPa]
    - Soil: Unit weight = 140 pcf [22kN/m<sup>3</sup>]
    - Minimum lateral pressure coefficient .25
    - Maximum lateral pressure coefficient .50
    - Cover to reinforcing: 2" [51mm] top of top slab
    - 1 1/2" [38mm] elsewhere
  - Dimensions include a joint gap. Actual culvert piece length is 1/2" [12.5mm] shorter. (i.e. C-2 = 7'-6" [2286mm])
  - No dampproofing supplied by CSI
  - Membrane waterproofing to be supplied and installed by others.
  - Headwalls, wingwalls, and toewalls by contractor.
  - DBS are Dowel Bar Splicers and are supplied by CSI. DI are Dowel Ins and are supplied by others. Dowel Ins are manufactured by Dayton Richmond Concrete Accessories.

PIECE SCHEDULE (MX-CE5000SM)				
MARK	QTY	LENGTH	YDS	WEIGHT
C-1	1	7.46	5.53	11.20 TONS
C-2	3	7.5	5.56	11.26 TONS
C-3	2	4.96	3.68	7.44 TONS
C-4	1	7.13	5.28	10.70 TONS

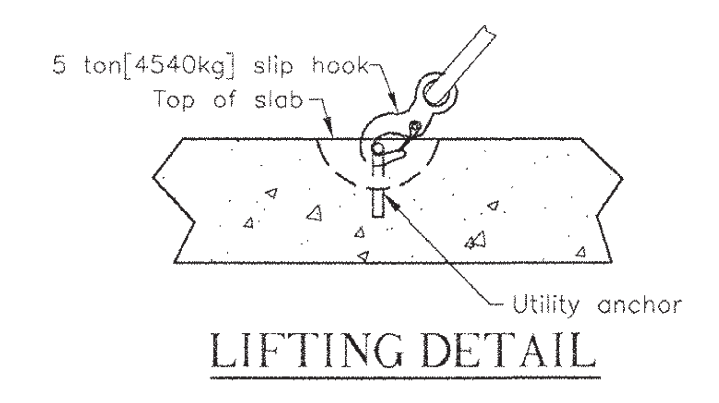
SHOW METRIC QUANTITIES.



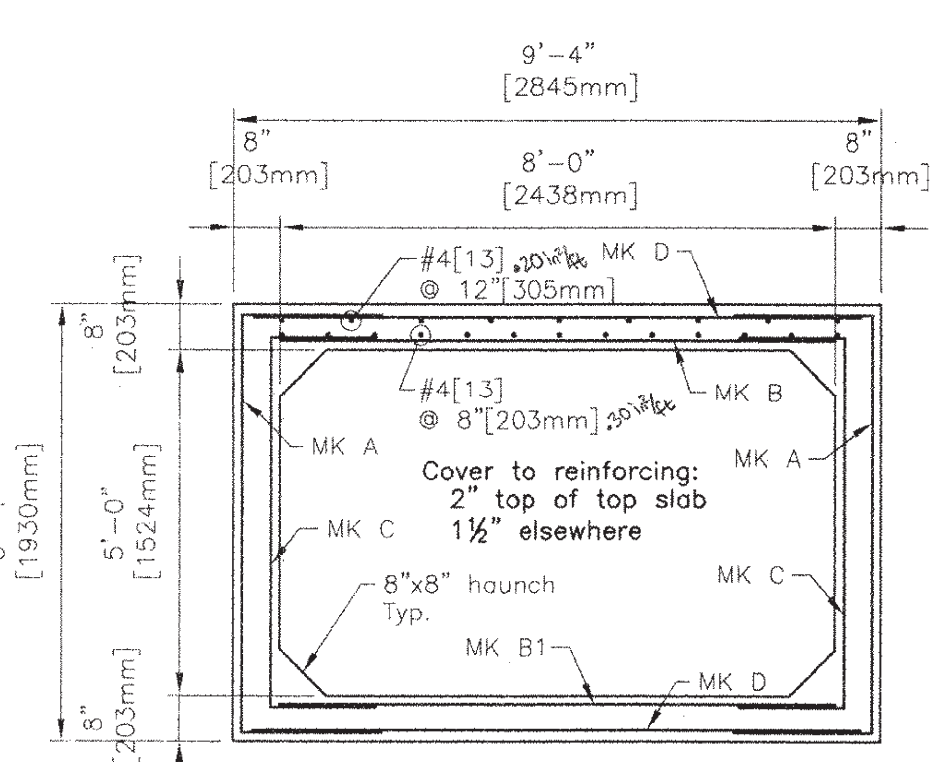
ELEVATION A-A



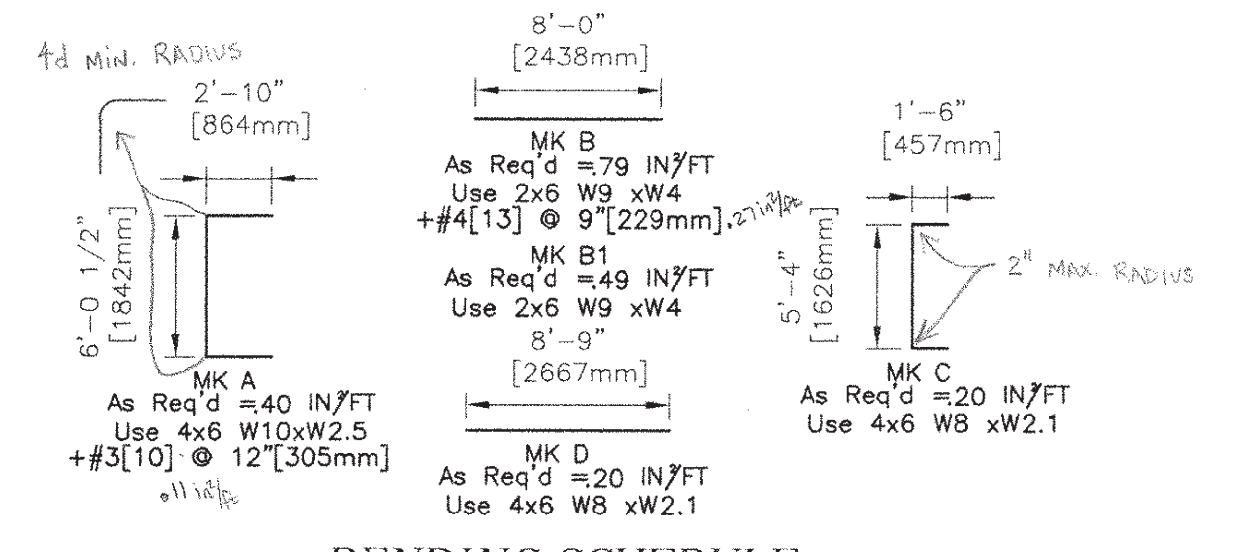
SECTION B



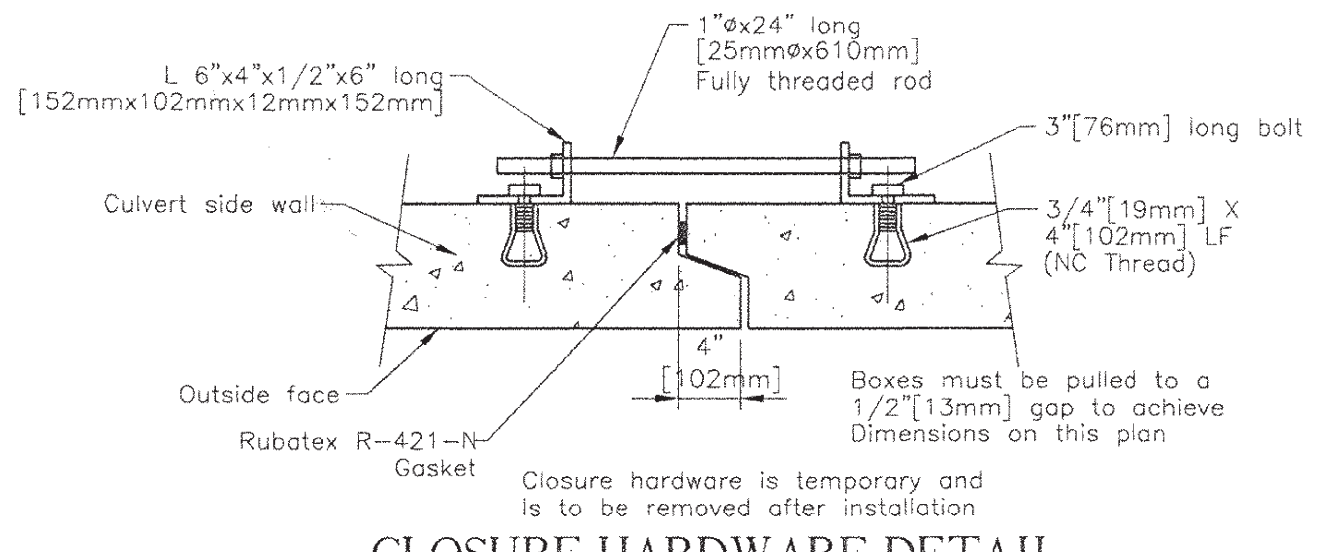
LIFTING DETAIL



REINFORCING DETAIL



BENDING SCHEDULE



CLOSURE HARDWARE DETAIL

Structures

Rev.	Date	Description	By
5			
4			
3			
2			
1			

This drawing is based upon information provided from the following documents and/or sources:  
 Engineer: VT Agency of Transportation Project #: BRO 1443(32)  
 Drawings: Fair Haven - Hampton Proj. No. BRO 1443(32) (Bottom cut off of drawings)  
 Sheet 19 of 53, Box Plan and Elevation Sheet, and Precast Box Details Sheet  
 Specifications: N/A

Other:

Contractor is to verify that all information shown on drawings has been thoroughly checked, complies with the contract documents and is adequate to meet the field conditions. Some dimensions and details may differ slightly from contract drawings to accommodate the manufacturing or design process. Approval of this drawing indicates that any deviation from the contract documents has been reviewed and found to be acceptable. Production will not commence until receipt of signed, approved shop drawings.

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STATE AGENCY: VERMONT AGENCY OF TRANSPORTATION

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AUSTIN CONSTRUCTION  
 FAIR HAVEN - HAMPTON BRIDGE REPLACEMENT  
 FAIR NEW HAVEN, VT

PRECAST CULVERT LAYOUT

Project No. BRO 1443(32) Drawing No. C16174-L01

Checked By: M. SCOTT Date: 03/07/2003  
 Checked By: C. VICK Date: 03/25/2003

Bridge No. 6 SHEET 1 OF 1