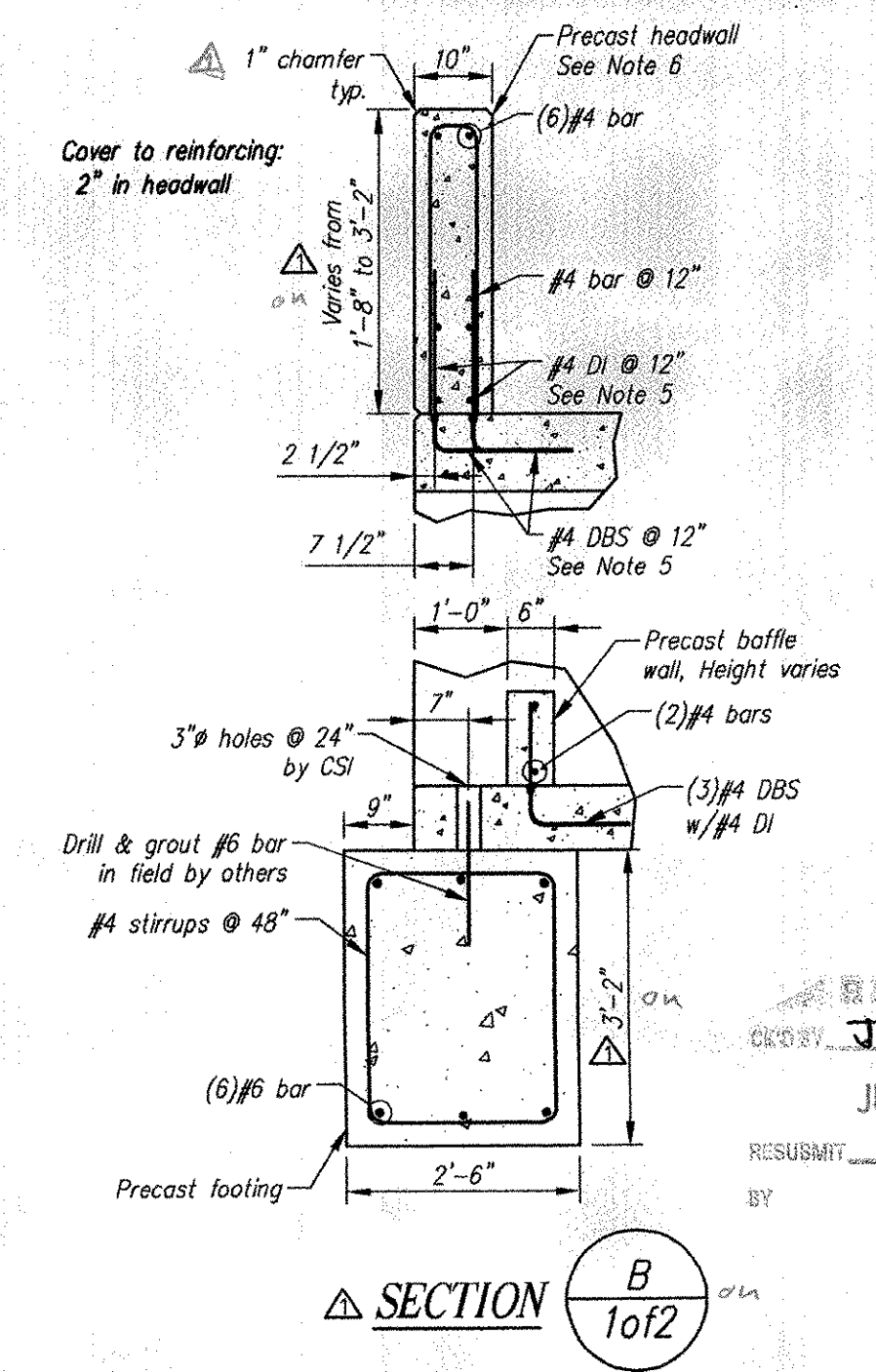
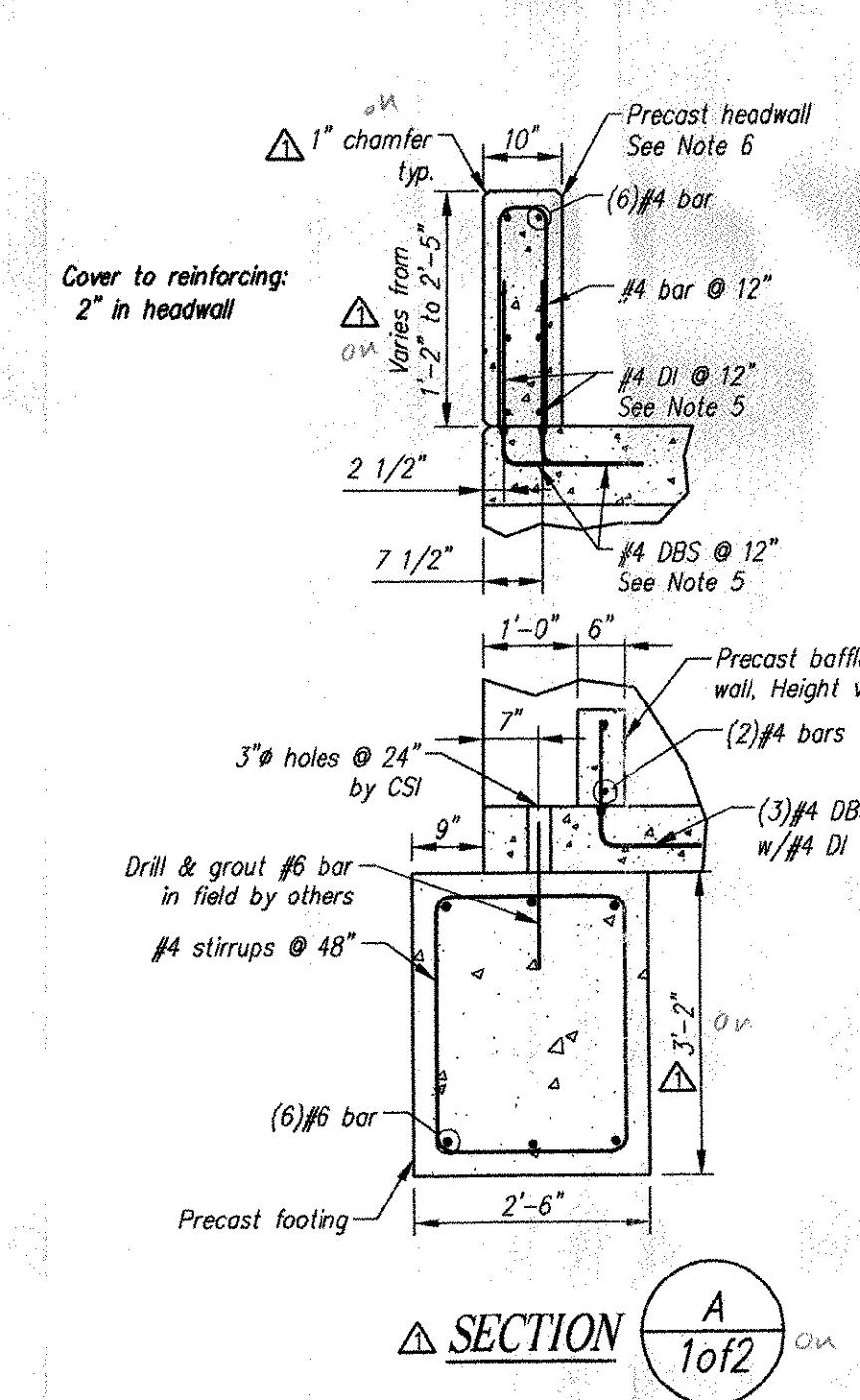
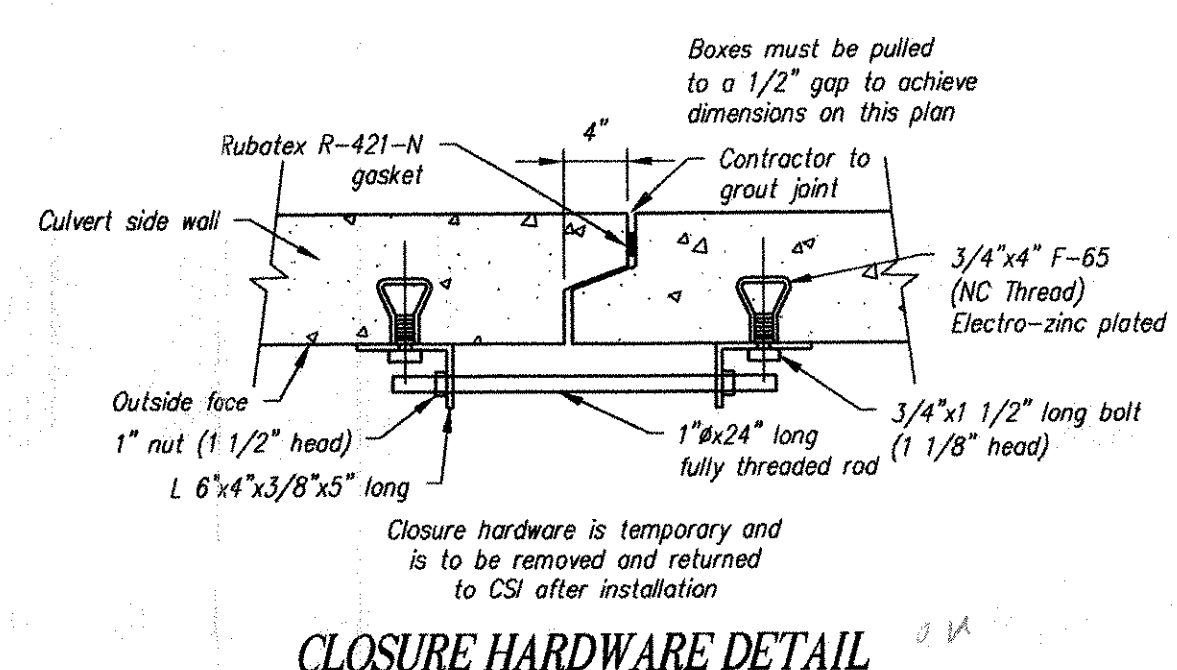
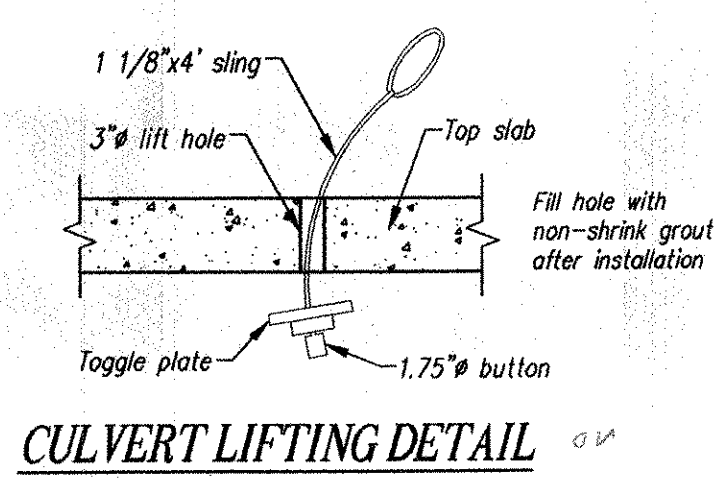
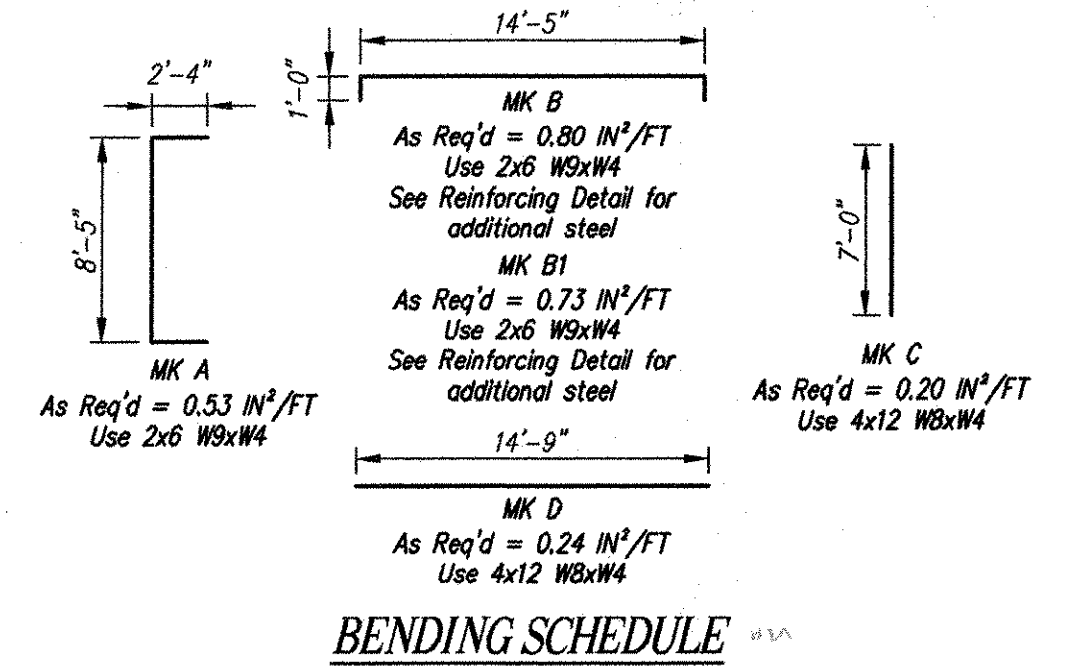
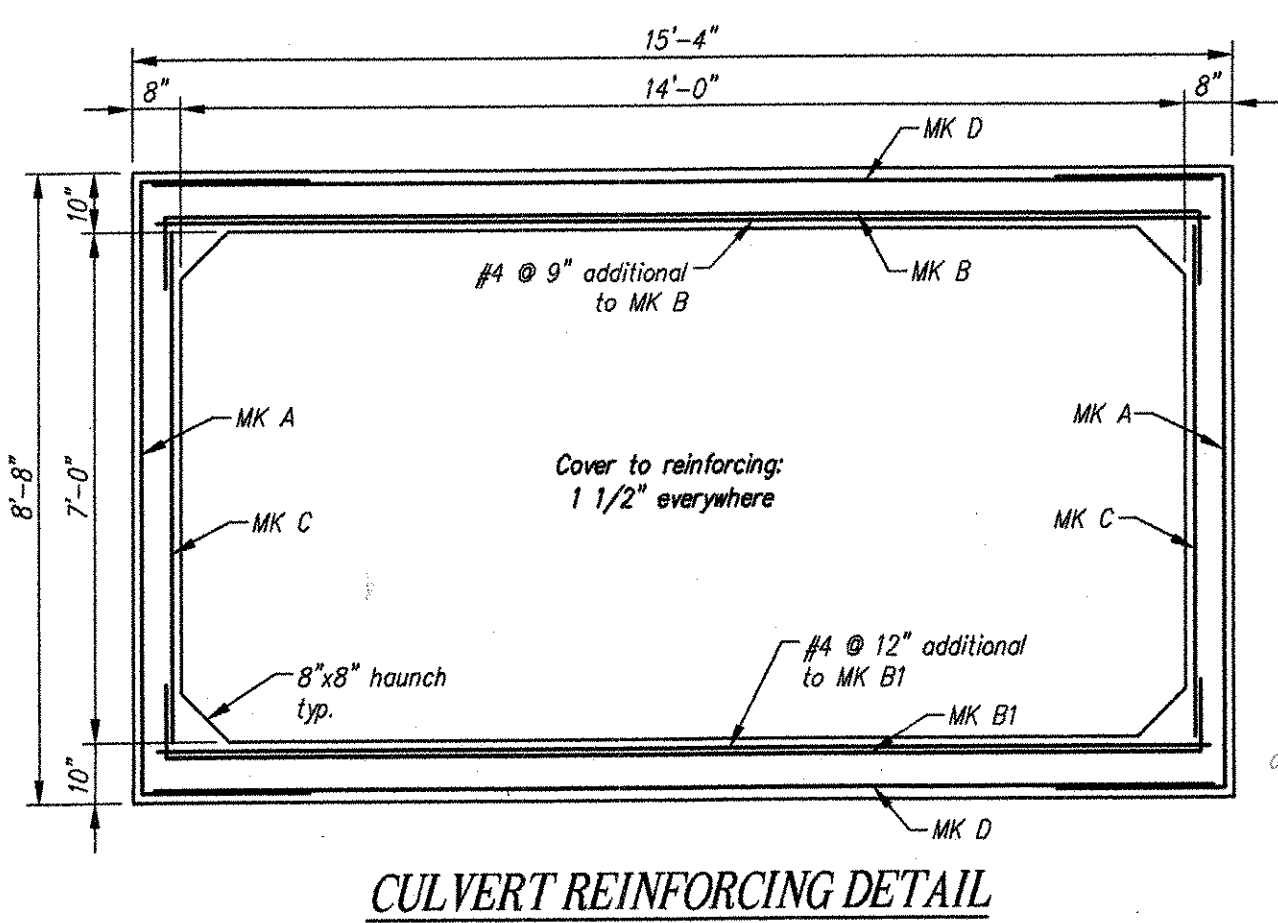
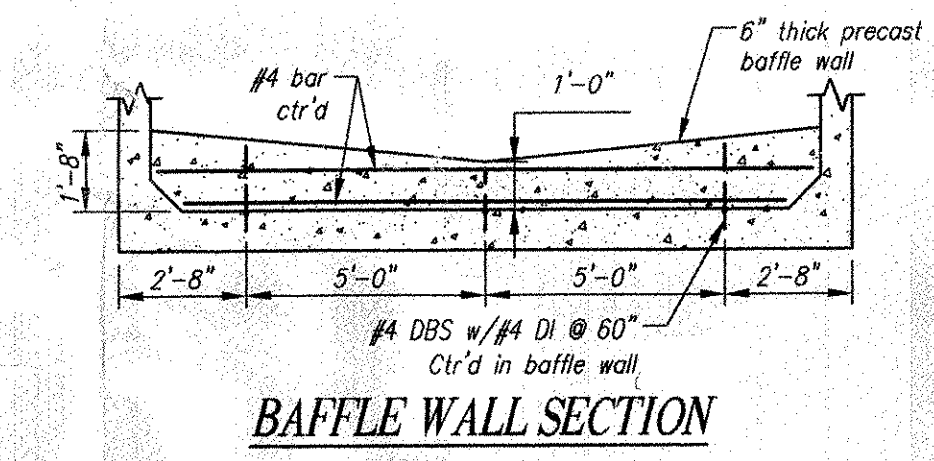
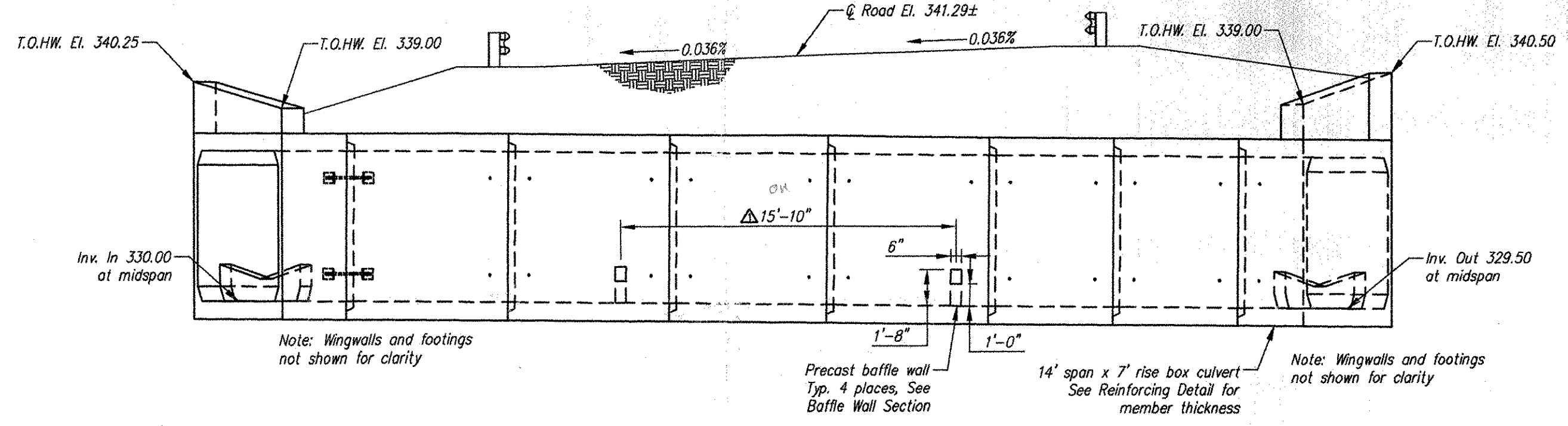


- GENERAL NOTES:**
- Structure designed and built in accordance with AASHTO "Standard Specifications for Highway Bridges" and ASTM C1433.
 - Design Parameters:
 - Live load: AASHTO HS25
 - Earth Cover: 3' to 4'
 - Concrete: Design strength $f'_c = 5000$ psi
Unit weight = 150 pcf
 - Reinforcing: ASTM A615 (rebar), grade 60
ASTM A185 (W/F) $f_y = 65$ ksi
Unit weight = 140 pcf
Minimum lateral pressure coefficient .25
Maximum lateral pressure coefficient .50
 - Soil: Cover to reinforcing: 1 1/2" u.o.
 - Dimensions include a joint gap. Actual culvert piece length is 1/2" shorter (i.e. C-2 = 7'-6").
 - No dampproofing supplied by CSI.
 - DBS are Dowel Bar Splicers and DI are Dowel Ins.
 - Precast headwalls not designed for impact load.
 - Joint sealant and waterproofing membrane by others.
 - State of Vermont Bridge Plaque to be cast into wingwall WW2. Plaque supplied by resident engineer. Notify resident engineer 72 hours prior to casting of WW2.
 - All exposed surfaces of culvert, headwalls and wingwalls to be coated with silane siloxane by CSI.

CULVERT PIECE SCHEDULE (MX-FA5000SM)

MARK	QTY	LENGTH (FT)	CUBIC YDS	WEIGHT (TONS)
C-1	1	5.07	8.37	16.95
C-2	2	7.5	9.94	20.13
C-3	1	7.5	10.28	20.82
C-4	2	5.78	7.66	15.51
C-5	1	5.07	8.30	16.81
C-6	1	7.5	10.28	20.82



RECEIVED
 JUL 02 2007
 APPROVED 7/2/07
 DATE 7/2/07

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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Stamp for structural design only
 PROFESSIONAL ENGINEER
 No. 12680
 6/28/07

Rev.	Date	DESCRIPTION	By
5			
4			
3			
2			
1	06/28/07	Revised depth of footings to be 3'-2"; Revised piece schedule	MS

This drawing is based upon information provided from the following documents and/or sources:

Engineer: VAOT
 Project No: AC ER STP 021-1 (22)
 Drawings: Proposed Improvement-Bridge Project-Route No: VT 116, Minor Arterial-Bridge No. 9
 Sheets 1 through 66 of 66 sheets
 Specifications: N/P
 Other Sources:

CSI
 Concrete Systems Inc.
 9 Commercial St., Hudson, NH, 03051
 Phone 603-889-4163
 Fax 603-889-2417

STATE AGENCY
 VAOT
 Drawn by: M. SCOTT
 Checked by: C. VICK
 Date: 06/01/2007
 Date: 06/12/2007

PIKE INDUSTRIES, INC.
 VT 116 - MINOR ARTERIAL - BRIDGE NO. 9
 BRISTOL, VT

BOX CULVERT LAYOUT AND DETAILS
 C18643-LO1-A

Quantity: 1 Project No: AC ER STP 021-1 (22) SHEET 1 OF 2