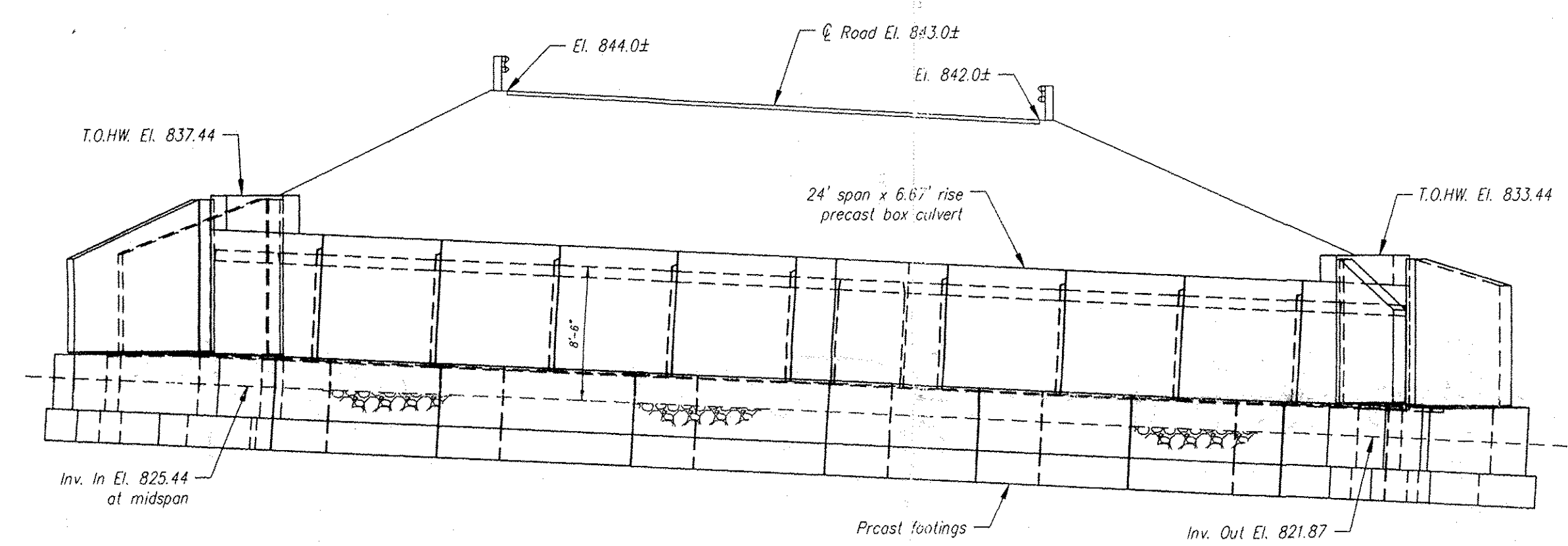


PLAN

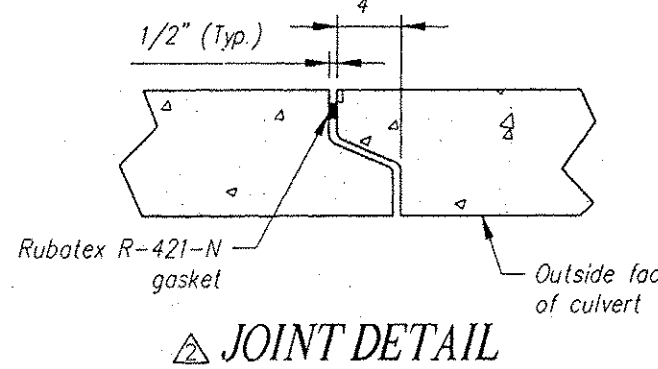


SIDE ELEVATION

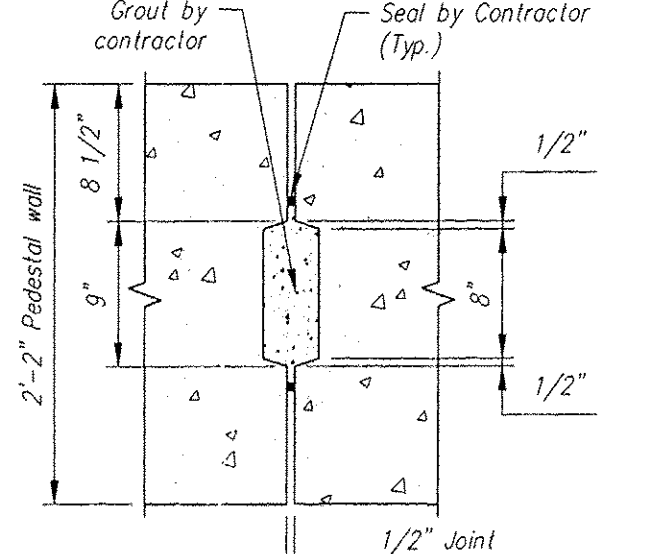
- GENERAL NOTES:**
- Reference Standards:
 - AASHTO LRFD "Bridge Design Specifications"
 - ASTM C1504
 - Design Parameters:
 - Live load: HL-93
 - Earth Cover: 9' to 10'
 - Concrete: Design strength $f'_c = 5000$ psi
Unit weight = 150 pcf
 - Reinforcing: ASTM A615 (rebar), grade 60
 - Soil: Unit weight = 140 pcf
Minimum lateral pressure coefficient .50
Maximum lateral pressure coefficient .75
 - Cover to reinforcing: 1 1/2" u.n.o.
 - Culvert layout dimensions includes 1/2" joint gaps. Actual culvert dimensions would be 1/2" shorter. (i.e. C2 = 6'-9")
 - No dampproofing or waterproofing supplied by CSI.
 - DBS are Dowel Bar Splicers and DI are Dowel Ins. Both are supplied by CSI.
 - Headwalls not designed for impact load.
 - Water repellent by CSI on all exposed faces of culvert, headwalls, and wingwalls to 1' inside culvert ends. Water repellent to be Silane-Siloxane.

MARK	QTY	LENGTH	YDS	WEIGHT
C1	1	4.65'	10.42	21.70 TONS
C2	5	6.75'	12.23	24.77 TONS
C3	2	4.84'	8.75	17.72 TONS
C4	1	4.84'	8.77	17.76 TONS
C5	1	4.84'	8.77	17.76 TONS
C6	2	4.48'	8.12	16.44 TONS
C7	1	4.65'	10.45	21.77 TONS
F1	1	15.00'	11.04	22.36 TONS
F2	1	15.00'	10.70	21.67 TONS
F3	1	21.00'	11.09	22.46 TONS
F4	1	16.00'	10.96	22.19 TONS
F5	1	11.00'	9.89	20.03 TONS
F6	5	12.33'	11.09	22.45 TONS
F7	5	9.67'	8.70	17.61 TONS
F8	1	10.50'	9.44	19.12 TONS

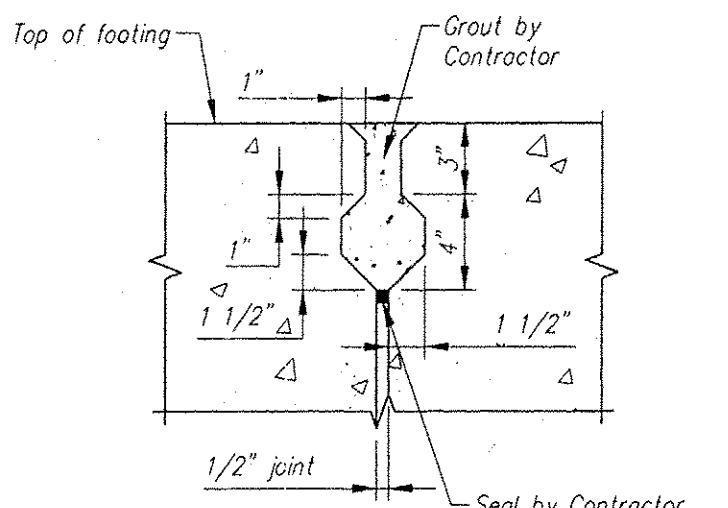
MARK	QTY	LENGTH	YDS	WEIGHT
WW1	1	11.00'	3.67	7.43 TONS
WW2	1	10.50'	3.35	6.78 TONS
WW3	1	14.50'	5.07	10.27 TONS
WW4	1	11.50'	3.43	6.95 TONS



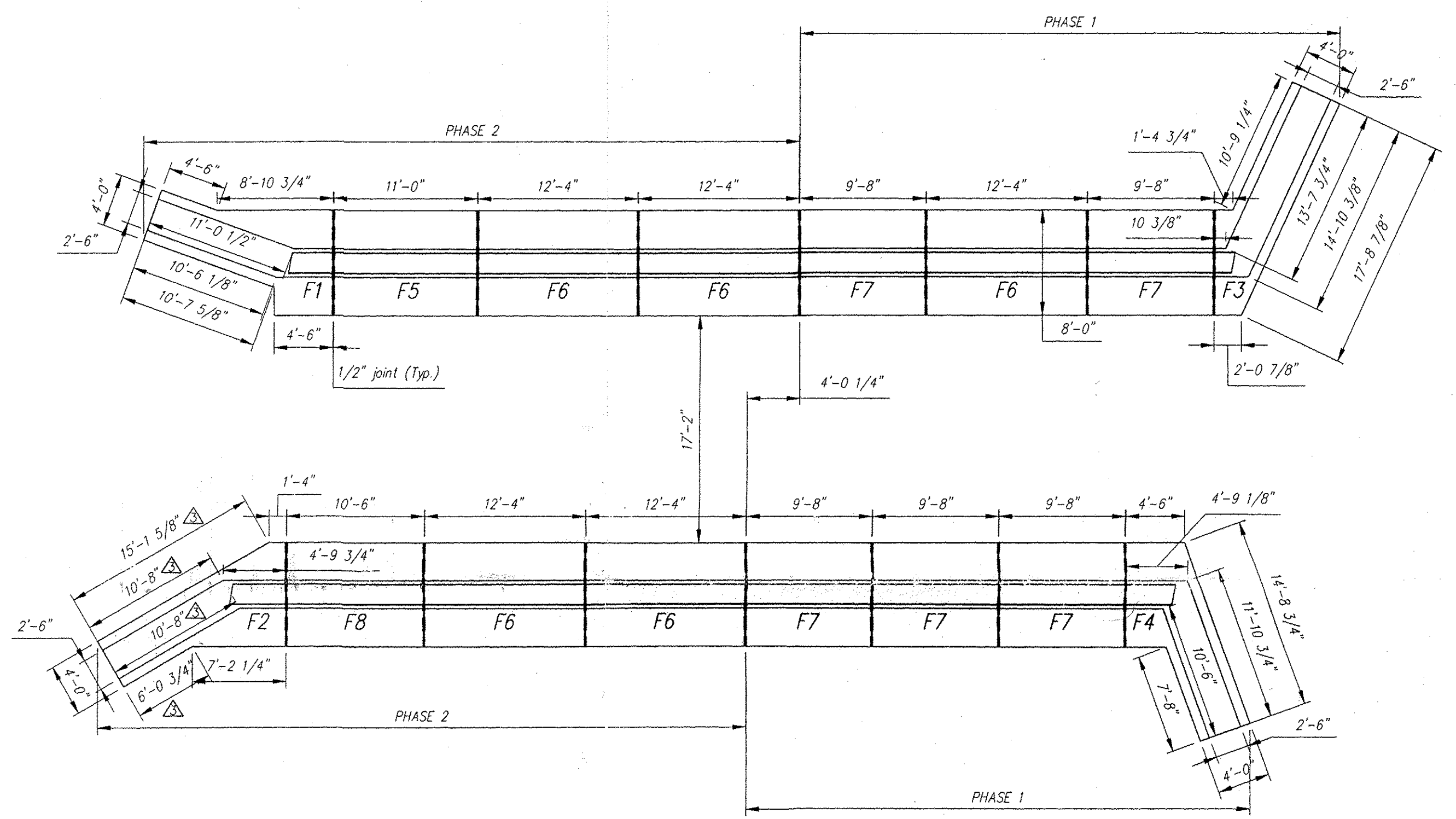
JOINT DETAIL



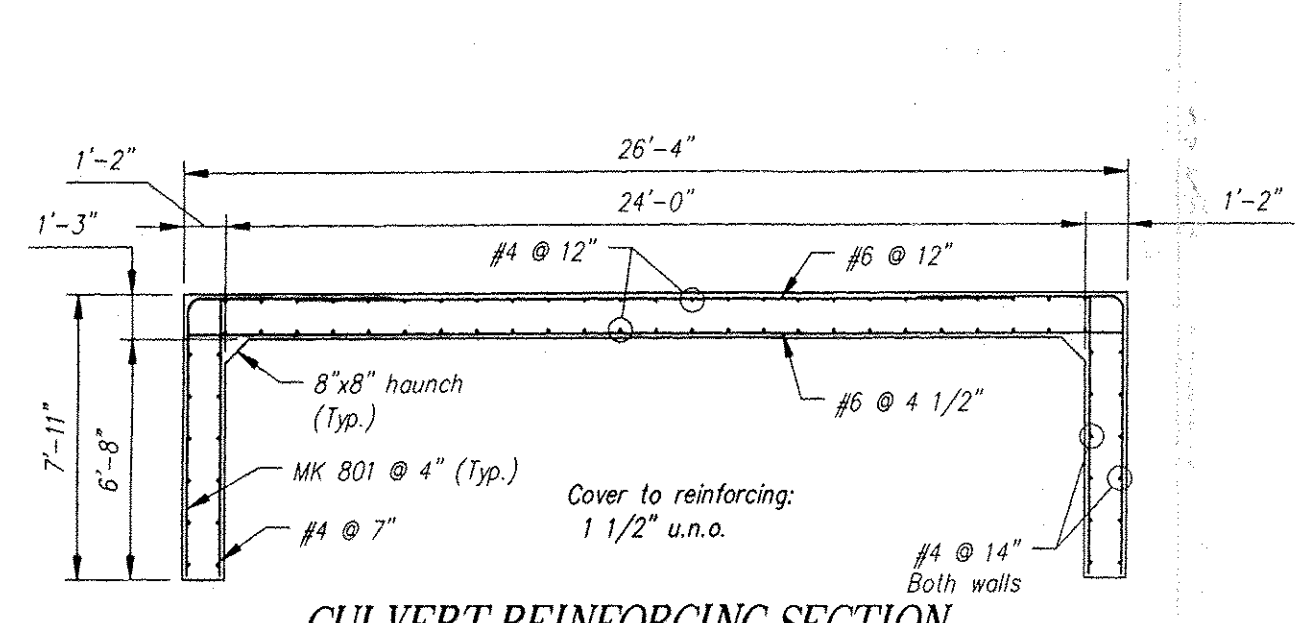
PEDESTAL WALL SHEAR KEY DETAIL



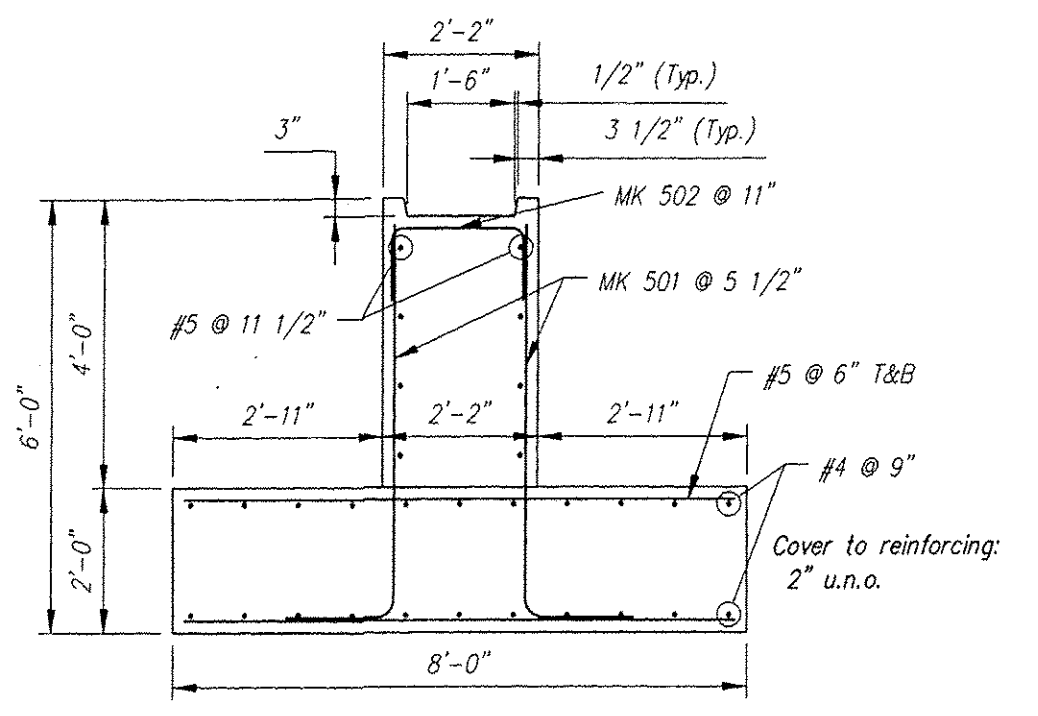
FOOTING SHEAR KEY DETAIL



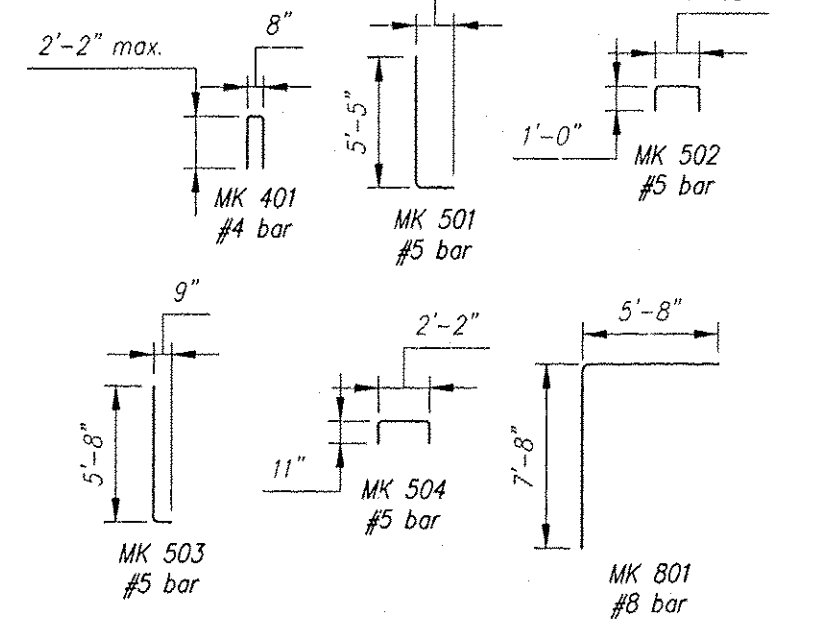
FOOTING PLAN



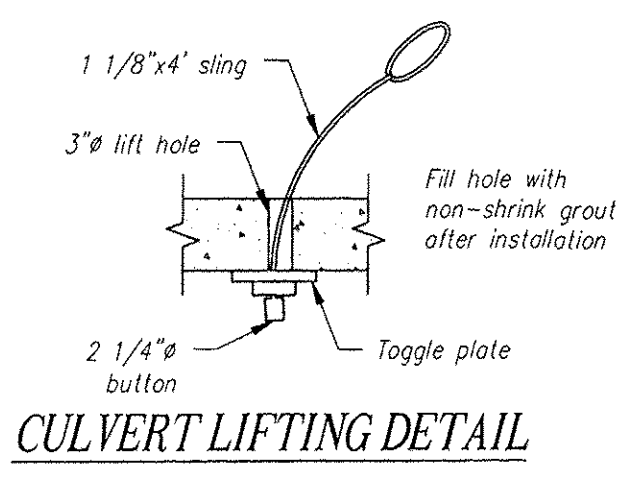
CULVERT REINFORCING SECTION



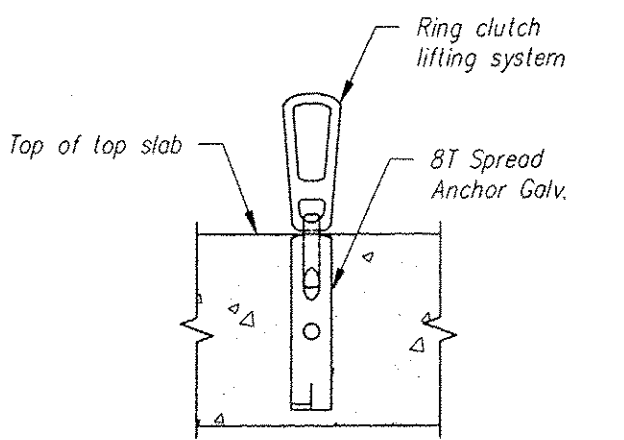
CULVERT FOOTING REINFORCING SECTION



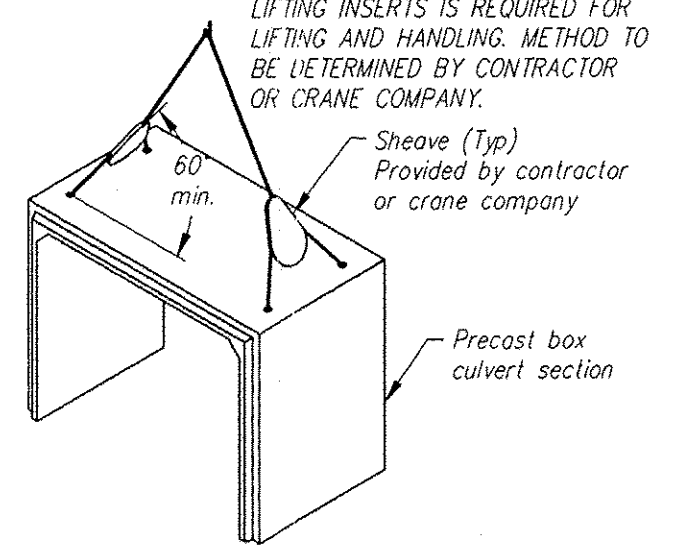
BENDING SCHEDULE



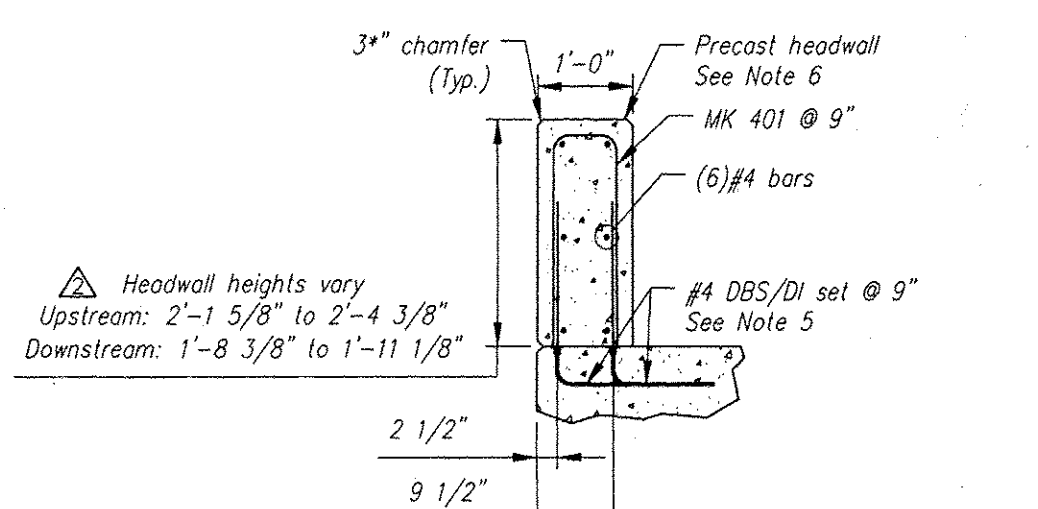
CULVERT LIFTING DETAIL



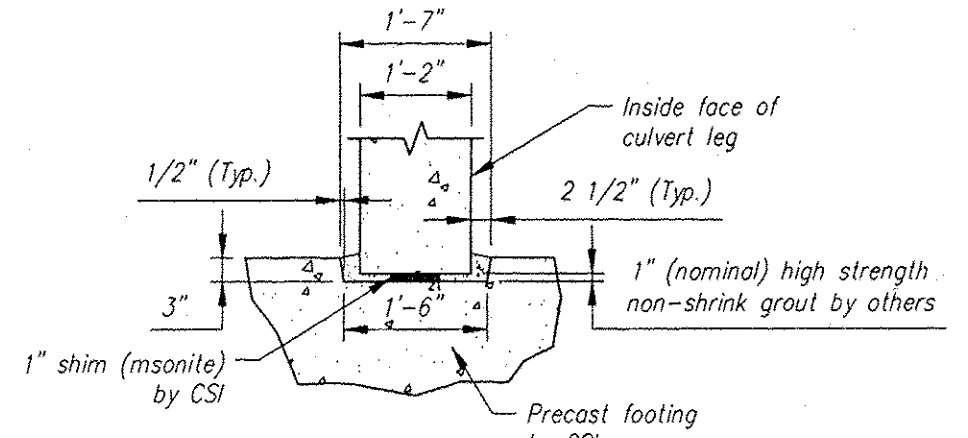
FOOTING LIFTING DETAIL



SHEAVE DETAIL



SECTION A 1 of 2



FOOTING KEYWAY DETAIL

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

Rev.	Date	DESCRIPTION	By
5			
4			
3	11/28/11	Revised WW2 and F2	MS
2	11/08/11	Revised Section A to show taller headwall at upstream end	MS
1	10/18/11	Revised weights of WW1 and WW2	MS

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

Engineer: _____
 Project No: _____
 Drawings: _____
 Specifications: _____
 Other Sources: _____

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

Drawn by: M. SCOTT
 Checked by: B. KOLAWOLE
 Approved by: M. SCOTT

Date: 10/06/2011
 Date: 10/07/2011
 Date: 11/28/2011

STAT. AGENCY: _____

KUBRICKY CONSTRUCTION CO.
 BRIDGE REHABILITATION
 PITTSFIELD, VT

BOX CULVERT LAYOUT AND DETAILS
 C20962-L01-A

Quantity: 1 Project No: _____

REV 3
 SHEET 1 OF 2