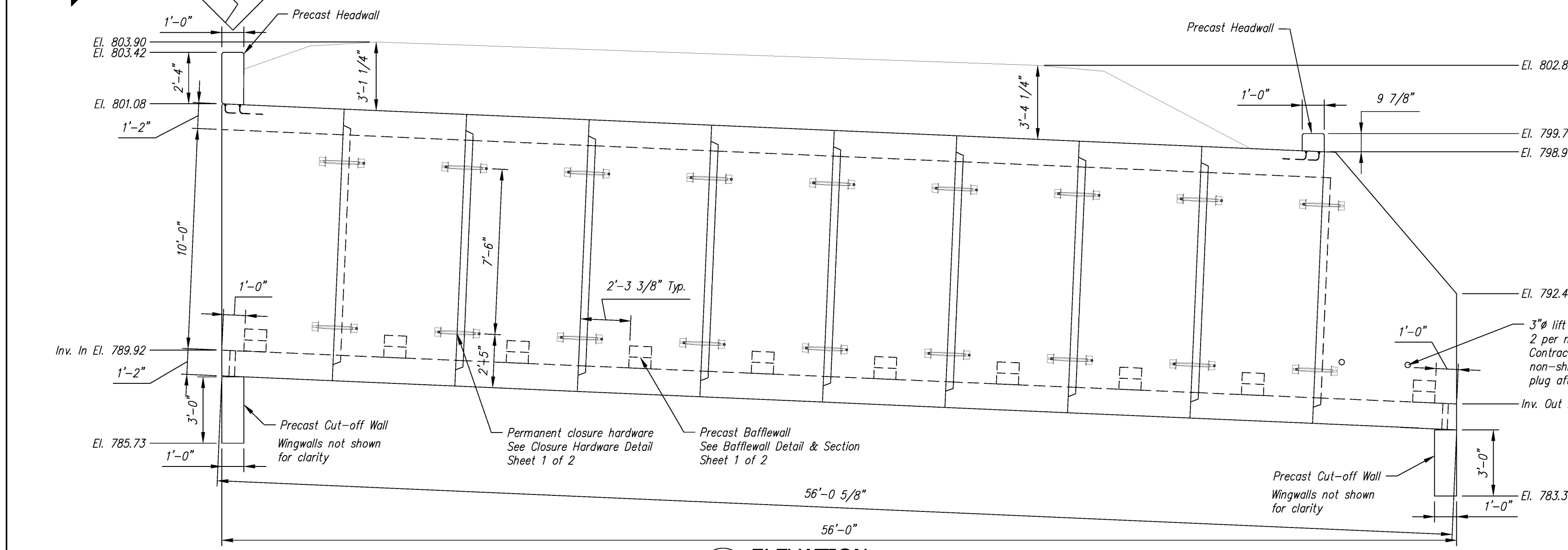


PLAN VIEW
Scale: 1/4" = 1'-0"



ELEVATION
Scale: 1/4" = 1'-0"

PIECE SCHEDULE (MK-FA5000SC30)				
MARK	QTY	LENGTH	YDS	WEIGHT
B1	1	5.28	16.78	33.99 TONS
B2	7	5.56	15.39	31.16 TONS
B3	1	5.56	16.06	32.52 TONS
B4	1	6.27	11.91	24.12 TONS
WW1B	1	8.50	5.24	10.61 TONS
WW2B	1	9.00	5.39	10.91 TONS
F1B	1	19.18	3.74	7.57 TONS
F2B	1	19.86	3.88	7.86 TONS
F3B	1	22.00	2.44	4.94 TONS

WINGWALL GENERAL NOTES:

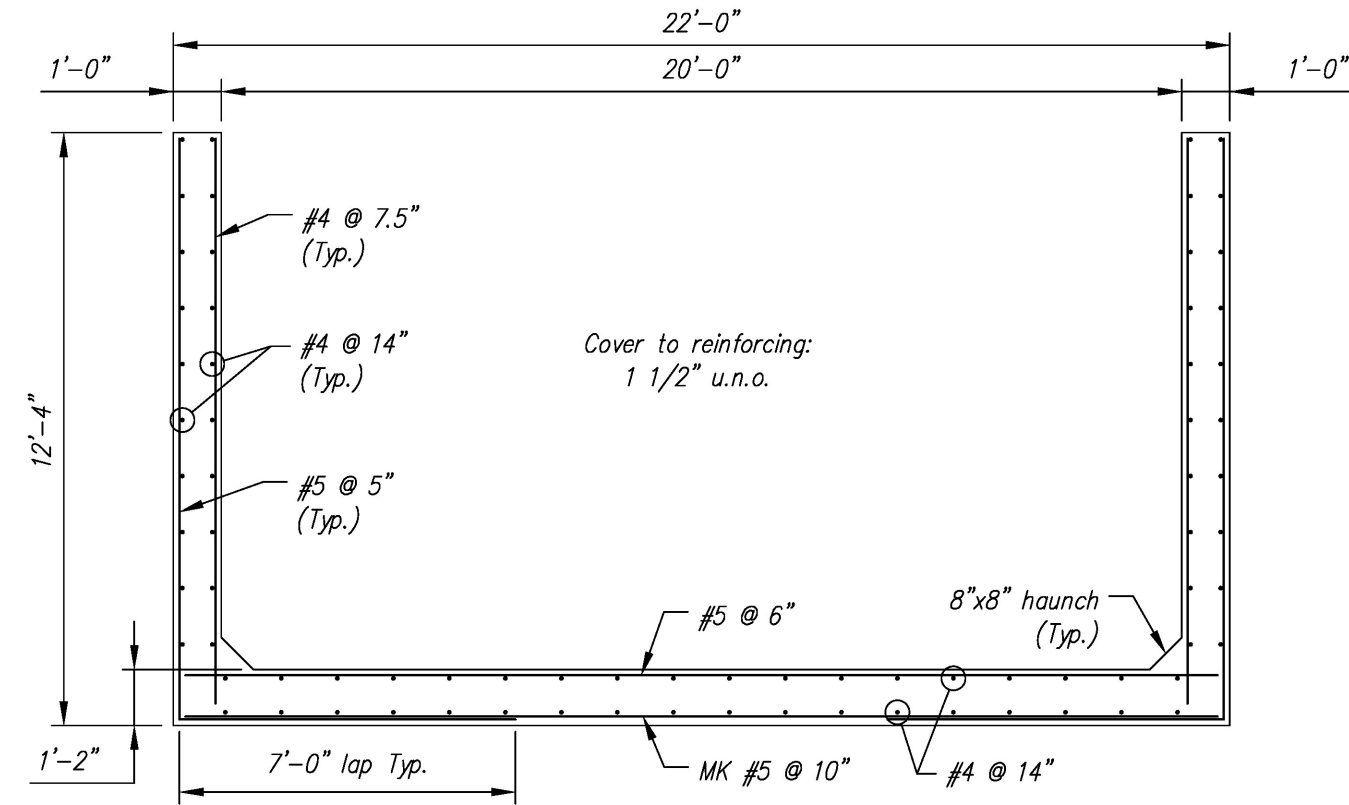
- Reference standard: AASHTO LRFD Specifications
- Design Parameters:
 - Soil Bearing: 3300 psf
 - Earth Cover: 1.00 ft max.
 - Concrete: Design strength $f'_c = 5000$ psi
 - Reinforcing: ASTM A615 (rebar), grade 60, Black
 - Soil: Minimum lateral pressure coefficient .25
- The wingwalls have been designed for general site conditions. The project engineer shall be responsible for the structure's suitability to the existing site conditions and for the hydraulic evaluation, including scour and confirmation of soil conditions.
- Prior to construction, contractor must verify all elevations shown through the engineer.

GENERAL NOTES:

- Reference Standards:
 - AASHTO LRFD Bridge Design Specifications
 - ASTM C1577
- Design Parameters:
 - Live load: HL-93
 - Earth Cover: 3' to 4'
 - Concrete: Design strength $f'_c = 5000$ psi
 - Reinforcing: ASIM A615 (rebar) GR 60, Black
 - Soil: Minimum lateral pressure coefficient .25
- Dimensions include a joint gap. Actual culvert piece length is 1/2" shorter (i.e. B2 = 5'-6 1/4").
- No dampproofing or waterproofing supplied by CSI.
- DBS are Dowel Bar Splicers and DI are Dowel Ins. Both are supplied by CSI. DI's are to be installed and cut/bent in the field by others as required.
- Headwalls are not designed for impact load.
- Water repellent (Silane-Siloxane) by CSI on all exposed faces of culvert, headwalls, and wingwalls.
- Provide engineer a minimum fourteen (14) days notice prior to the start of fabrication and a detailed casting schedule.

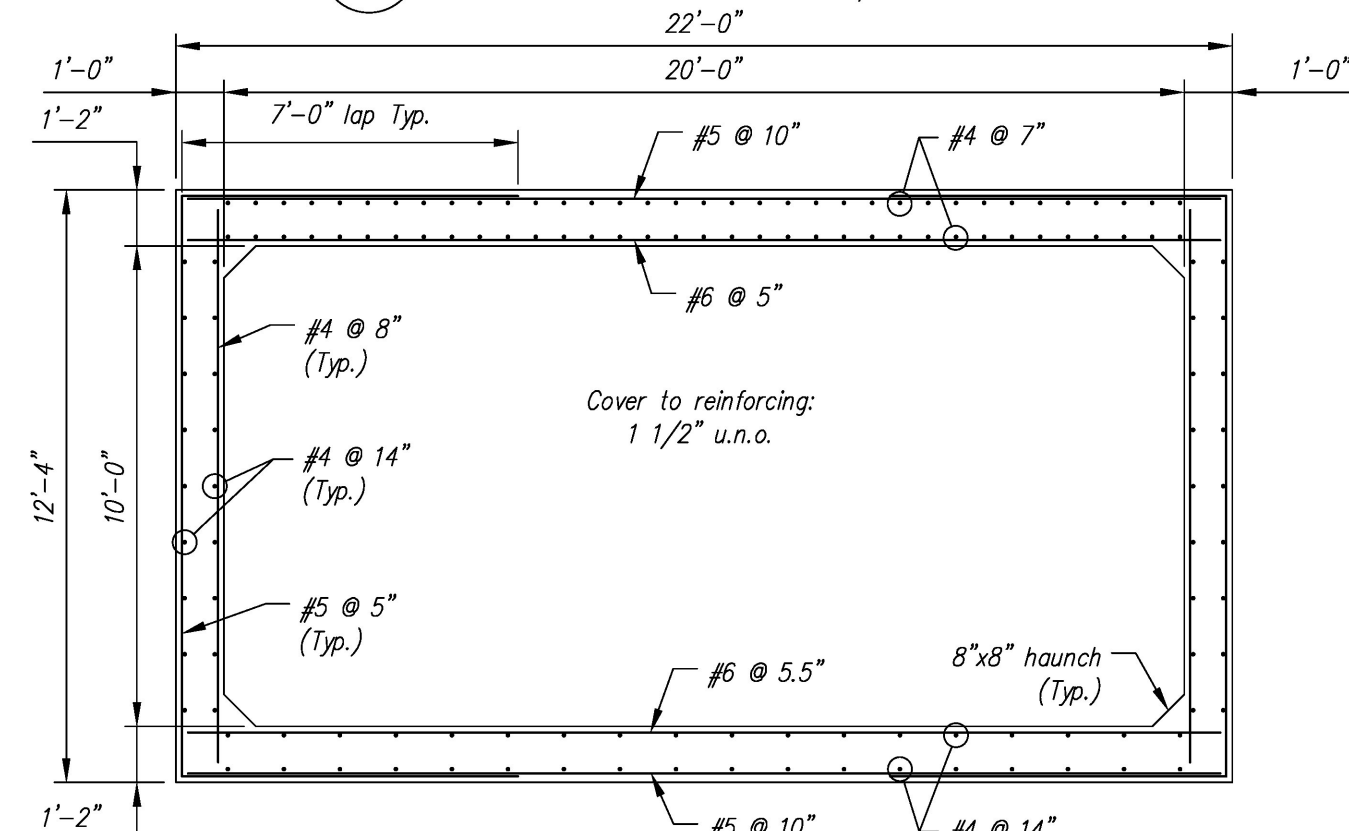
Vermont Agency of Transportation
RECEIVED
 ON: April 30, 2015
 and Checked for
CONFORMANCE
 BY: Mark Sargent DATE: 5/7/2015

REVIEWED: _____
 REVIEWED AS MODIFIED: _____
 REVISED AND RESUBMIT: _____
 NOT REVIEWED: _____
 Date: 4/24/2015
 By: Nathan Tyrk
 This review by Stantec Consulting Services Inc. is for the sole purpose of accelerating the design process and does not constitute an approval of the design. The contractor is responsible for the design and construction of the project. The contractor is responsible for the design and construction of the project. The contractor is responsible for the design and construction of the project.



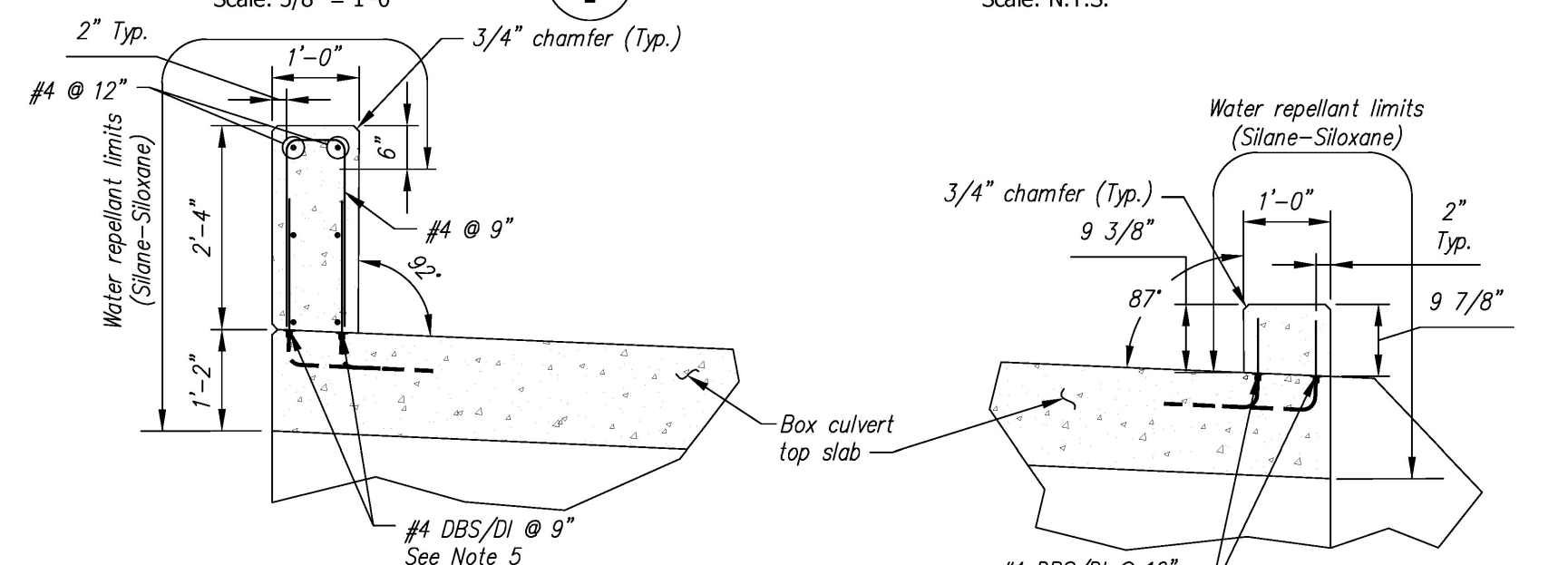
3-SIDED CULVERT REINFORCING DETAIL
Scale: 3/8" = 1'-0"

3-SIDED CULVERT BENDING SCHEDULE
Scale: N.T.S.

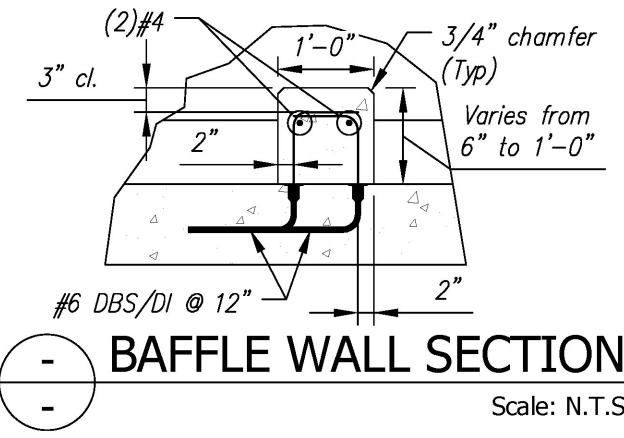


CULVERT REINFORCING DETAIL
Scale: 3/8" = 1'-0"

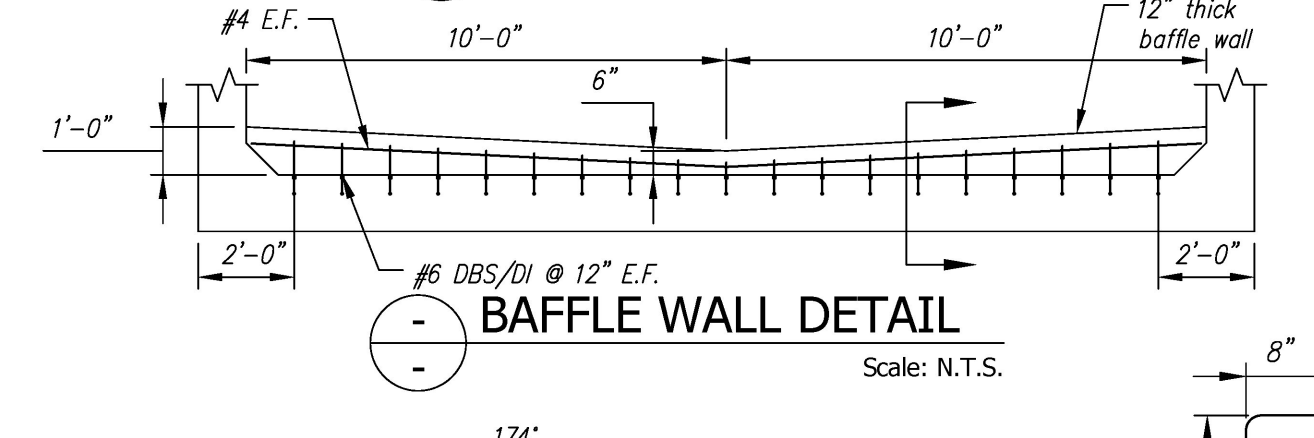
BENDING SCHEDULE
Scale: N.T.S.



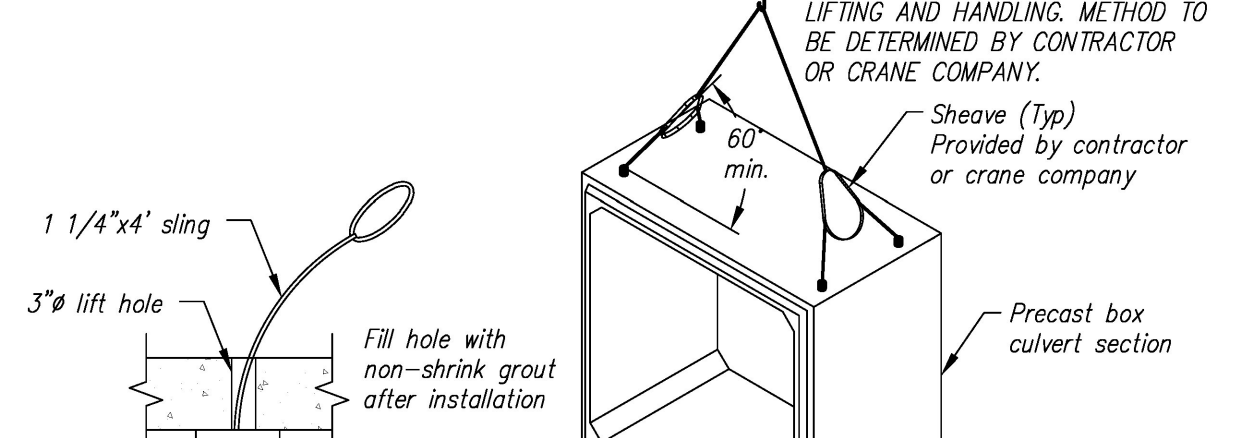
SECTION C-C
Scale: N.T.S.



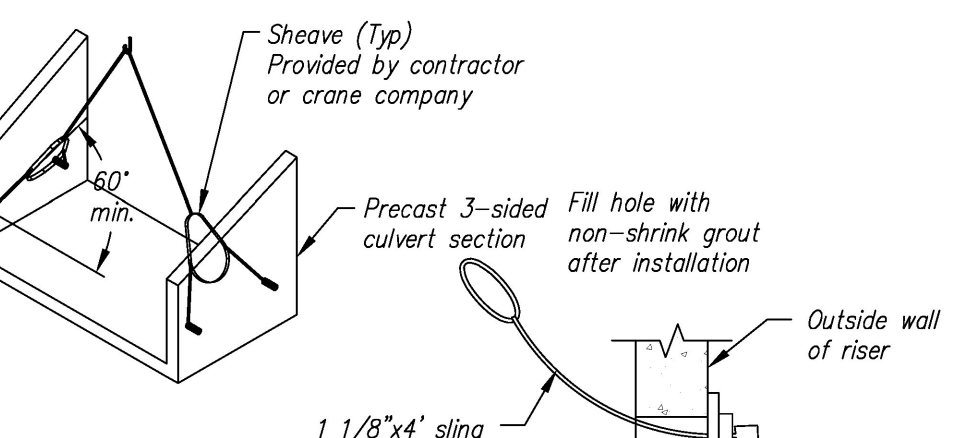
BAFFLE WALL SECTION
Scale: N.T.S.



BAFFLE WALL BENDING SCHEDULE
Scale: N.T.S.



4-SIDED CULVERT LIFTING HARDWARE DETAIL
Scale: N.T.S.



3-SIDED CULVERT LIFTING HARDWARE DETAIL
Scale: N.T.S.

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			
2			
1	01apr2015	WINGWALL ANCHORS WERE TYPE 'D', WINGWALLS WERE 10" THK	RY

This drawing is based upon information provided from the following documents and/or sources:
 Engineer: STATE OF VT AOT PROGRAM DEVELOPMENT
 Project No: STPCULV30
 Drawings: VT/AOT PROPOSED IMPROVEMENT BRIDGE PROJECT
 SHEETS 1 THRU 24 & 32 OF 55
 Specifications: ----
 Other Sources: ----

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

STATE AGENCY
 VTrans
 Drawn by: R. YEAGER
 Date: 09MAR2015
 Reviewed by: _____
 Date: _____
 Approved by: _____
 Date: _____

J A MCDONALD, INC.
 VT/AOT BRIDGE - STEEL CULVERT REPLACEMENT
 BRIDGE #7, VT ROUTE 58, IRASBURG, VT
 Drawing No. C22283-L02A
 Project No: STPCULV30
 SHEET 1B OF 2B