Reviewed
Rejected

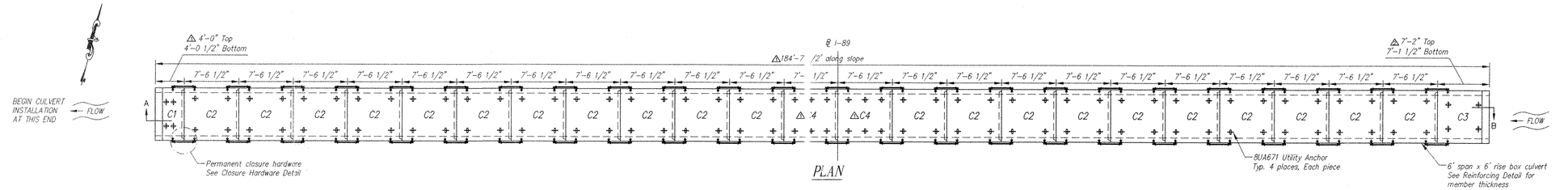
Furnish as Corrected
Revise and Resubmit
Submit Specified Item

This review is only for general conformance with the design concept and the information given in the Construction Documents. Corrections or comments made on the shop drawings during this review do not relieve the contractor from compliance with the requirements of the plans and specifications. Review of a specific item shall not include review of an assembly of which the item is a component. The Contractor is responsible for: dimensions to be confirmed and correlated at the jobsite; information that pertains solely to the fabrication process or to the means, methods, techniques, sequences and procedures of construction; coordination of the Work with that of all other trades and performing all Work in a safe and satisfactory manner.

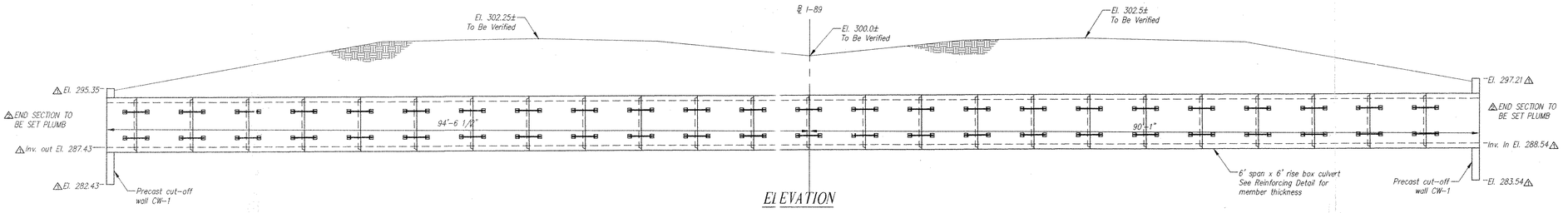
McFarland-Johnson, Inc.

Date 11/06/07

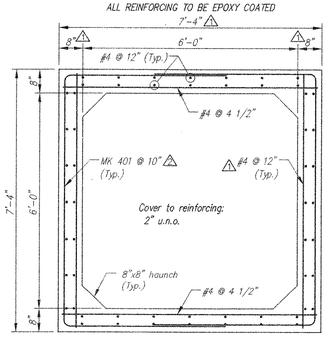
By RJH



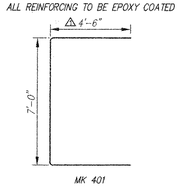
PLAN



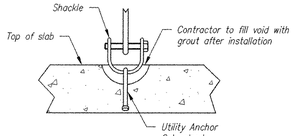
ELEVATION



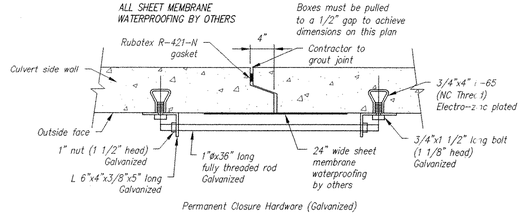
△ REINFORCING DETAIL



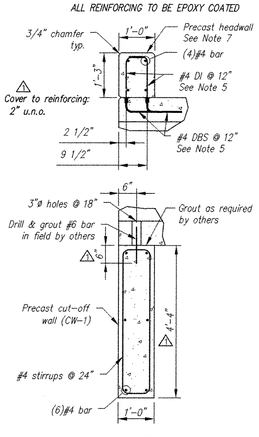
△ BENDING SCHEDULE



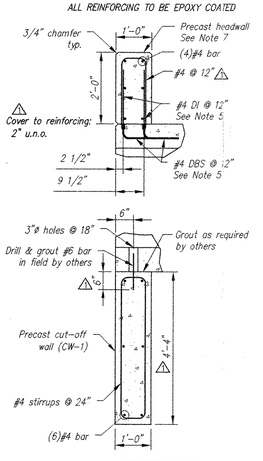
LIFTING DETAIL



△ CLOSURE HARDWARE DETAIL



△ SECTION A



△ SECTION B

GENERAL NOTES:

1. Reference Standards:
   AASHTO "Standard Specifications for Highway Bridges"
   ASTM C1433
2. Design Parameters:
   Live load: HS25
   Earth Cover: 5' to 8'
   Concrete: Design strength f'c = 5000 psi
   Unit weight = 150 pcf
   Reinforcing: ASTM A775 (rebar), grade 60, Epoxy Coated
   Soil: Unit weight = 140 pcf
   Minimum lateral pressure coefficient .25
   Maximum lateral pressure coefficient .50
   Cover to reinforcing: 2" u.n.o.
3. Dimensions include a joint gap. Actual culvert piece length is ½" shorter (i.e. C-2 = 7'-6").
4. Water repellent (Silane Siloxane) to be applied to all exposed surfaces of the headwalls and exposed interior surfaces of the culvert including the bottom surface of the top slab, the top surface of the bottom slab, and the vertical walls. Water repellent applied at location of manufacture by CSI.
5. DBS are Dowel Bar Splicers and DI are Dowel Ins.
6. All inserts to be corrosion resistant or to have a corrosion resistant coating. (i.e. epoxy coated, galvanized, electro-zinc plated, etc.)
7. Headwalls not designed for impact load.
8. Wingwalls by others.
△9. End sections, C-1 & C-3, to be set plumb.

STRUCTURAL DESIGN ONLY

△

11/12/07

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.

Stamp for structural culvert design only

Rev.	Date	DESCRIPTION	By
5			
4			
3			
2	10/16/07	End sections to be plumb; MK 401 @ 10"; Permanent closure hardware; Misc. revisions	MS
1	10/12/07	Rvs'd Reinforcing Detail; culvert wall thickness; cut-off walls; overall length of culvert; Misc.	MS

REVISIONS

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

Engineer: VAOT
Project No: I-89 Over Po Ash Brook Tributary
Drawings: I-89 Over Po Ash Brook Tributary
Sheets 50 through 55 of 63 sheets
Specifications: Special Provisions for: South Burlington AC IM CULV (9)
Pages 1 through 17
Other Sources:

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

STATE AGENCY
VAOT
AC IM CULV (9)

Drawn By	M. SCOTT	Date 10/03/2007
Checked By	C. VICK	Date 10/03/2007
Approved By	C. VICK	Date 10/16/2007

FRANK W. WHITCOMB CONSTRUCTION CORP.
I-89 OVER POT ASH BROOK TRIBUTARY (BRIDGE NO. 67-1)
SOUTH BURLINGTON, VT

D | BOX CULVERT LAYOUT AND DETAILS | REV 2
Drawing No. C18861-LO1

Quantity: 1 | Project No: AC IM CULV (9) | SHEET 1 OF 1