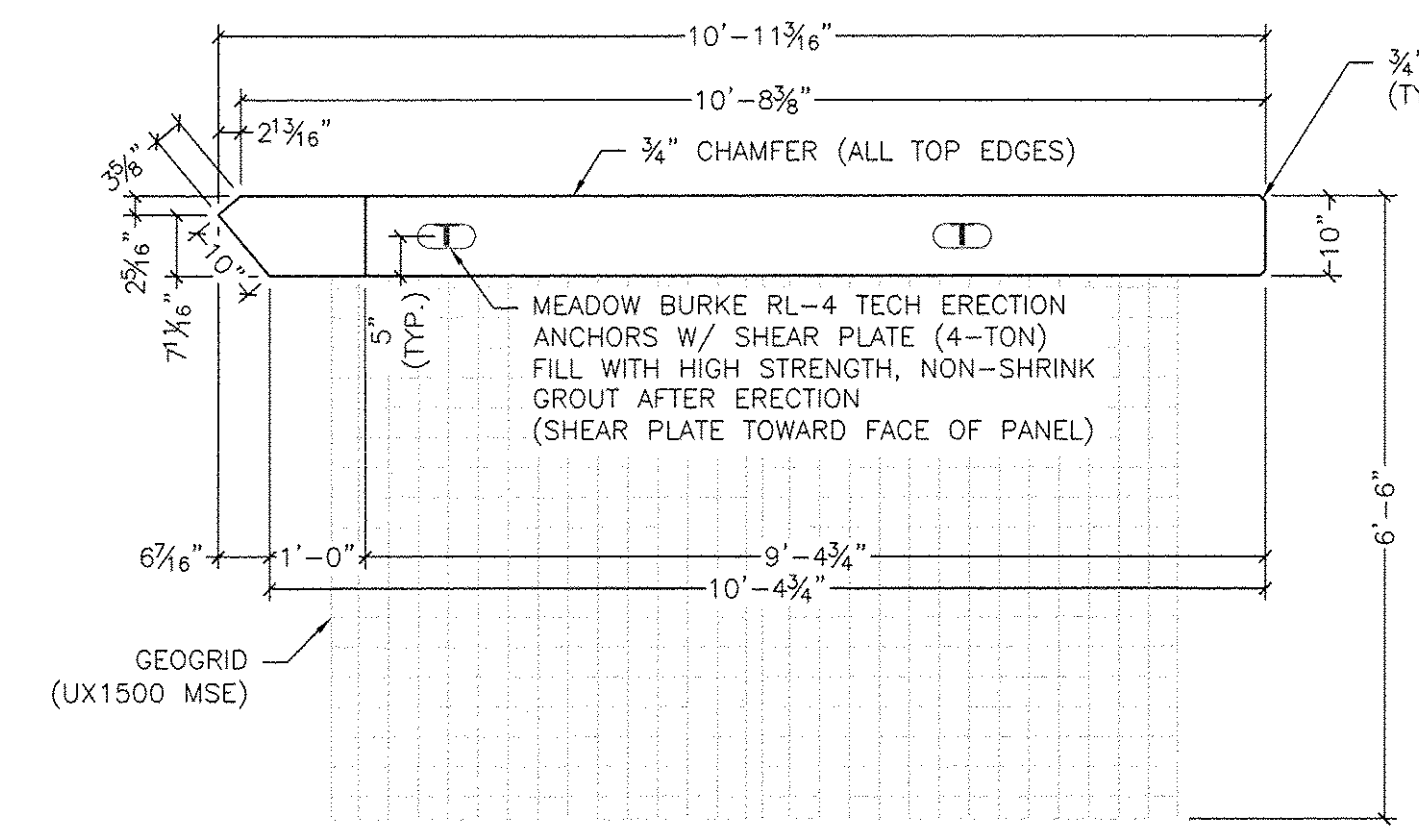
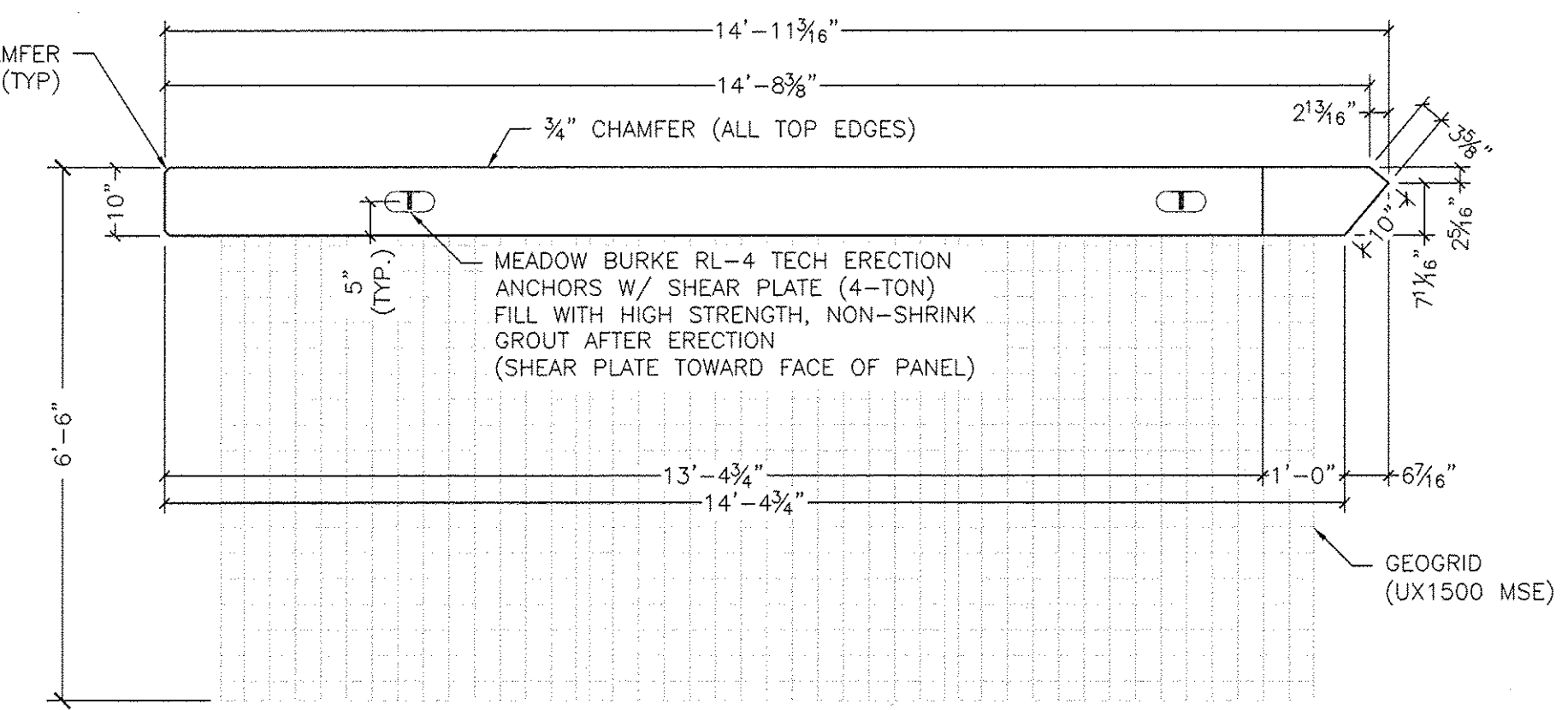


- PANEL WING WALL NOTES:
1. PANEL WING WALLS ARE DESIGNED IN ACCORDANCE WITH AASHTO "LRFD BRIDGE DESIGN SPECIFICATIONS", 4TH EDITION AND "MSE EARTH WALLS AND REINFORCED SOIL SLOPES DESIGN & CONSTRUCTION GUIDELINES" FHWA-NHI-00-043, MARCH 2001.
  2. PANEL WING WALLS ARE DESIGNED FOR NO LIVE LOAD SURCHARGE (PER AASHTO) AND BACKFILL MATERIAL IS ASSUMED TO HAVE A MINIMUM INTERNAL FRICTION ANGLE OF 34 DEGREES AT 140 PCF.
  3. PANEL WALLS SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 5,000 POUNDS PER SQUARE INCH (P.S.I.). THE CONCRETE SHALL BE SELF CONSOLIDATING CONCRETE.
  4. THE PROCEDURE FOR BACKFILLING THE WING WALLS SHALL BE AS FOLLOWS:
    - a) BACKFILL AND COMPACT PER NOTE 5 UP TO THE BOTTOM OF THE FIRST GEOGRID LAYER.
    - b) USING BODKIN BARS, CONNECT THE REQUIRED LENGTH OF GEOGRID TO THE WING PANEL.
    - c) PULL GEOGRID AWAY FROM PANEL UNTIL IT IS TAUGHT AND STAKE INTO THE GROUND IN TO MAINTAIN TENSION IN THE GEOGRID.
    - d) PLACE BACKFILL ON GEOGRID AT BACK OF PANEL AND FILL AWAY FROM THE PANEL IN A MANNER SO AS TO NOT DISRUPT TENSION IN GEOGRID.
    - e) COMPACT BACKFILL AT BACK OF PANEL FIRST AND WORK AWAY FROM PANEL. THIS SHALL BE DONE IN LIFTS AS SPECIFIED IN NOTE 5.
    - f) REPEAT PROCEDURE FOR EACH LAYER OF GEOGRID.
  5. ALL BACKFILL SHALL COMPLY WITH VAOT STANDARD SPECIFICATIONS, ITEM 204, GRANULAR BACKFILL FOR STRUCTURES. THE BACKFILL SHALL BE PLACED PER VAOT SPECIFICATIONS. BEGIN LIFTS AT PANEL FACE AND WORK AWAY FROM WALL TO MAINTAIN TENSION ON GEOGRID. BACKFILL SHALL EXTEND 2'-0" MINIMUM BEYOND THE LIMITS OF THE GEOGRID.
  6. ALL EXPOSED EDGES EXCEPT WHERE NOTED SHALL BE CHAMFERED 3/4". ALL EXPOSED SURFACES SHALL BE TREATED WITH SILANE-SILOXANE TO 1'-0" BELOW FINISHED GRADE.
  7. TENSAR UX1500MSE SHALL BE CAST INTO WALLS AS SHOWN WITH THE STRONG DIRECTION PERPENDICULAR TO THE WALL FACE.
  8. THE CONTRACTOR SHALL MAKE THE NECESSARY ARRANGEMENT WITH THE WALL SUPPLIER TO HAVE A TECHNICAL REPRESENTATIVE ON THE PROJECT TO ASSIST WITH INITIAL PLACEMENT OF THE MSE WALL. THE TECHNICAL REPRESENTATIVE SHALL ALSO BE REQUIRED TO BE ON-SITE ANY TIME DURING WALL INSTALLATION AS REQUESTED BY THE RESIDENT ENGINEER. THE REPRESENTATIVE SHALL BE AVAILABLE FOR AT LEAST 20 WORKDAYS.



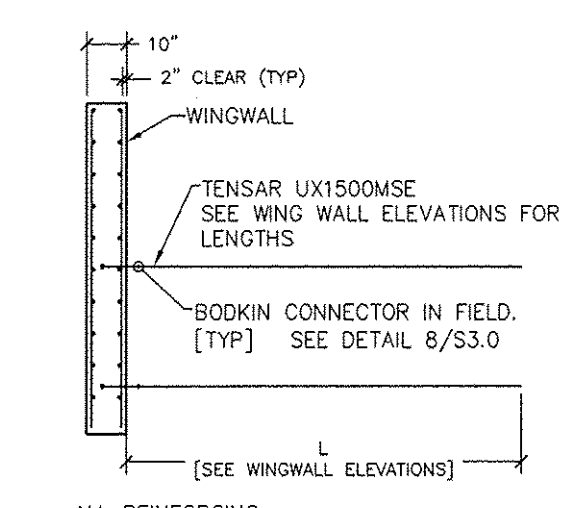
1 WW1 PLAN VIEW  
S8.0 1/2" = 1'-0"

WW1 1 REQ'D  
10,250# (2.44CY)

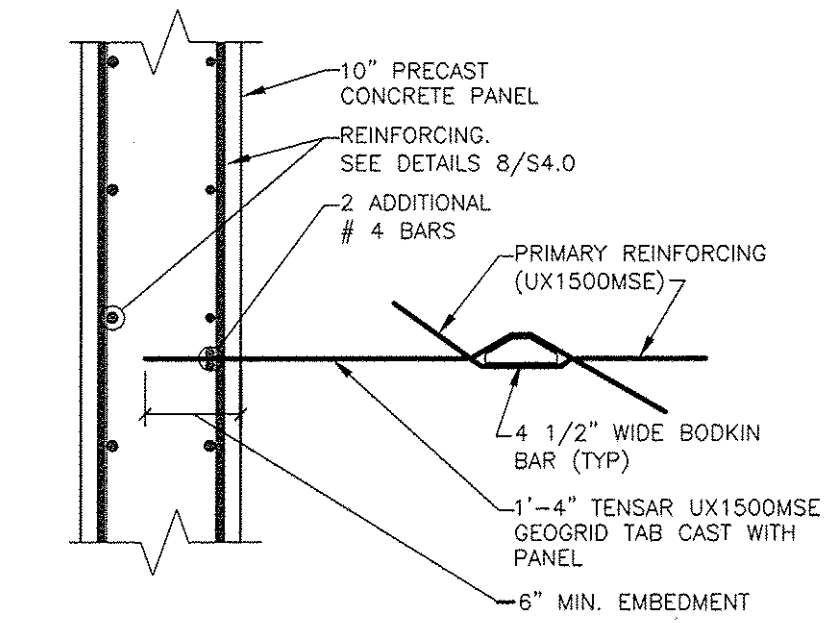


2 WW2 PLAN VIEW  
S8.0 1/2" = 1'-0"

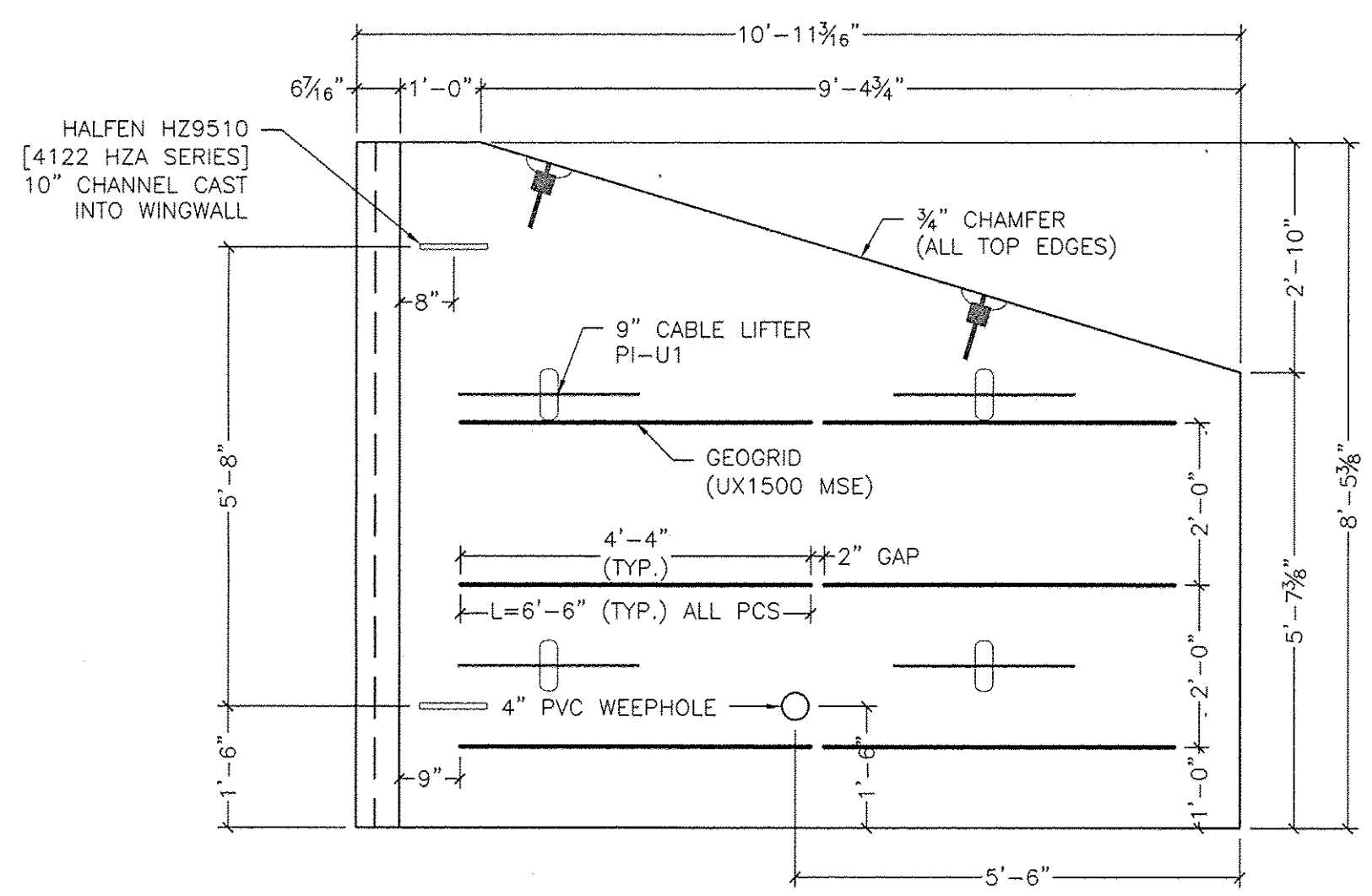
WW2 1 REQ'D  
15,200# (3.62CY)



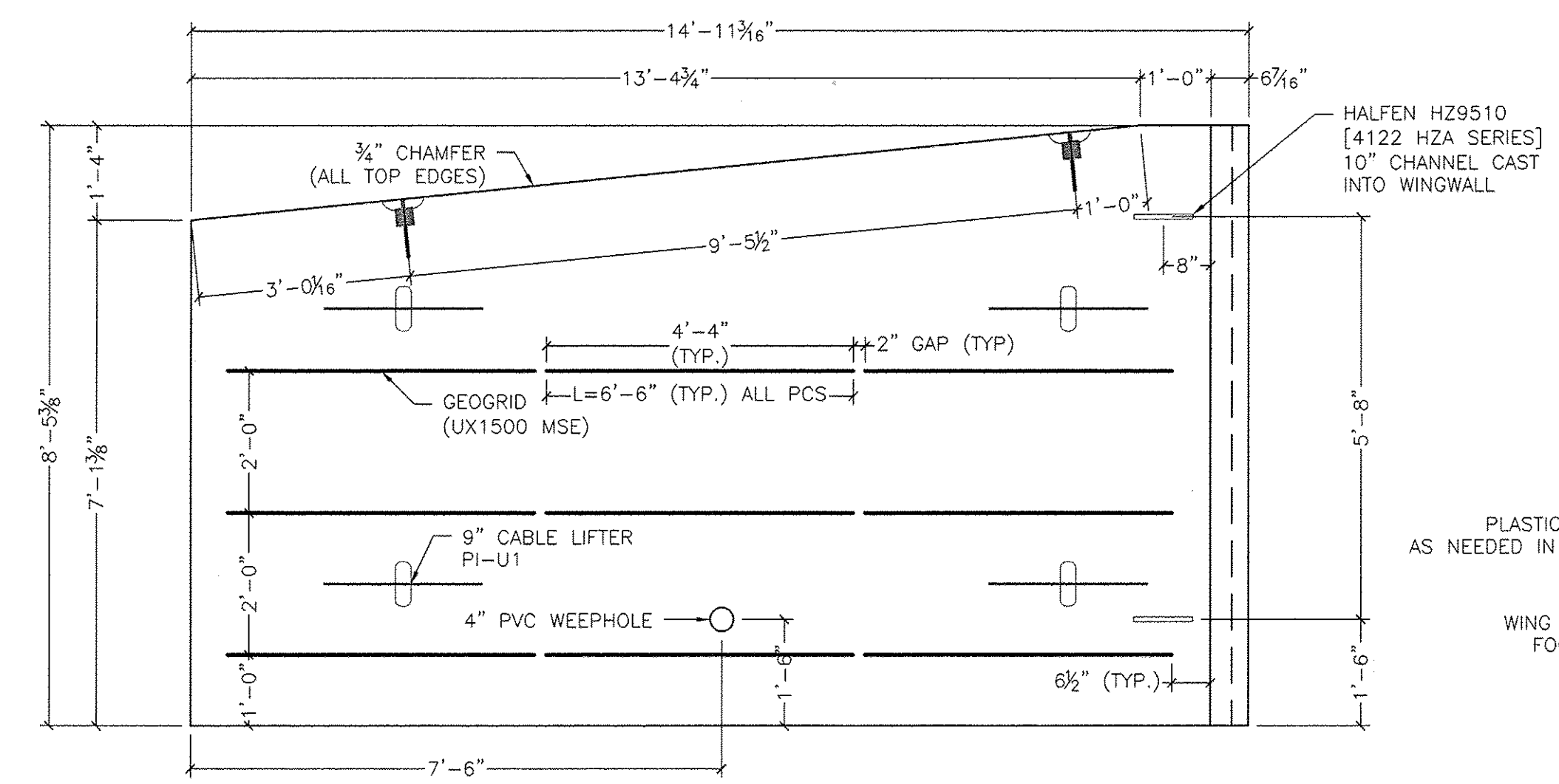
8 TYPICAL WING WALL PANEL SECTION  
S8.0 1/4" = 1'



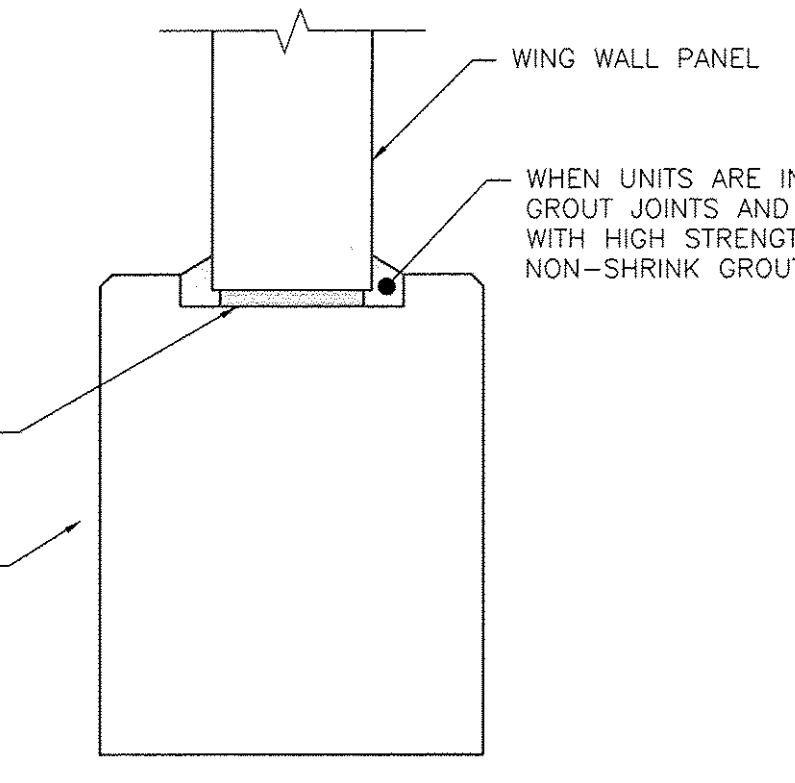
9 BODKIN CONNECTION DETAIL  
S8.0 1" = 1'-0"



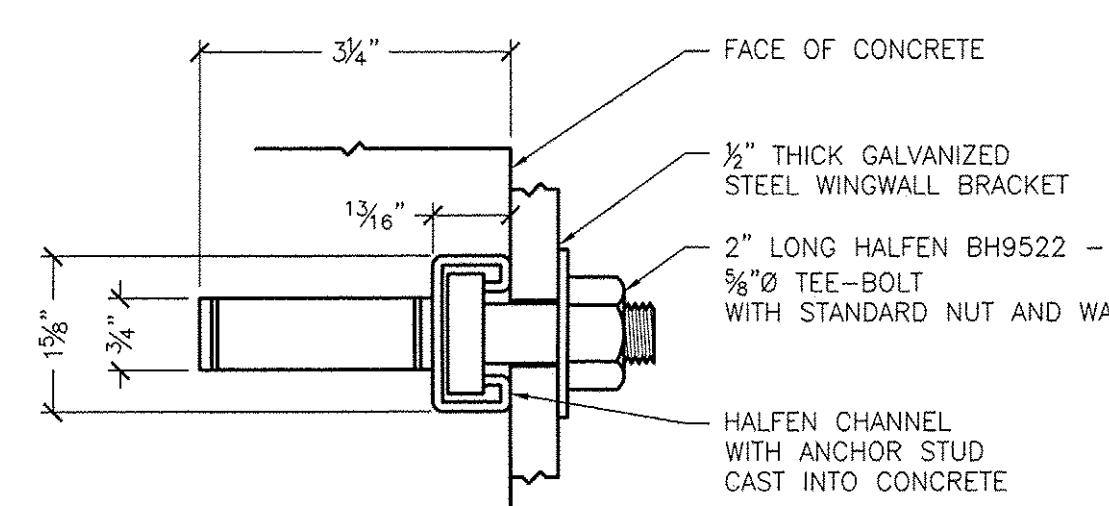
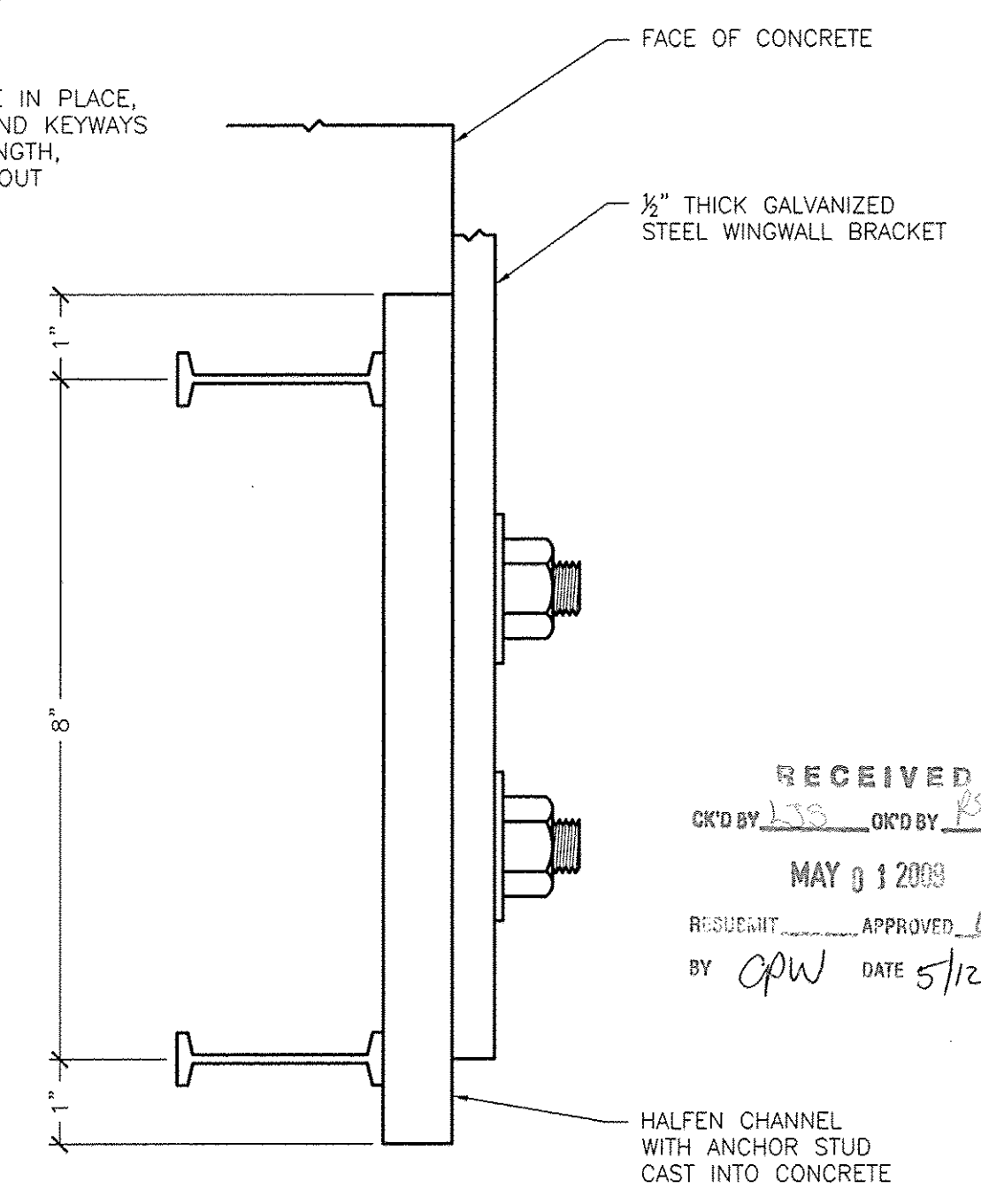
3 WW1 ELEVATION VIEW (LOOKING AT BACK)  
S8.0 1/2" = 1'-0"



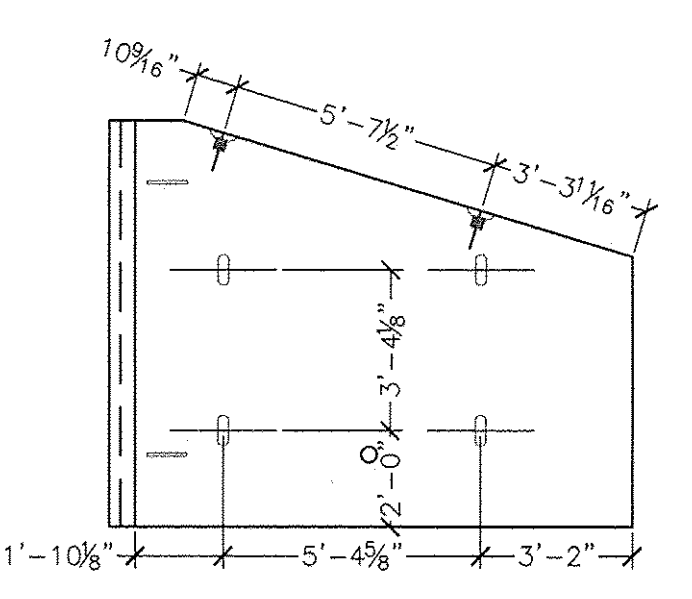
4 WW2 ELEVATION VIEW (LOOKING AT BACK)  
S8.0 1/2" = 1'-0"



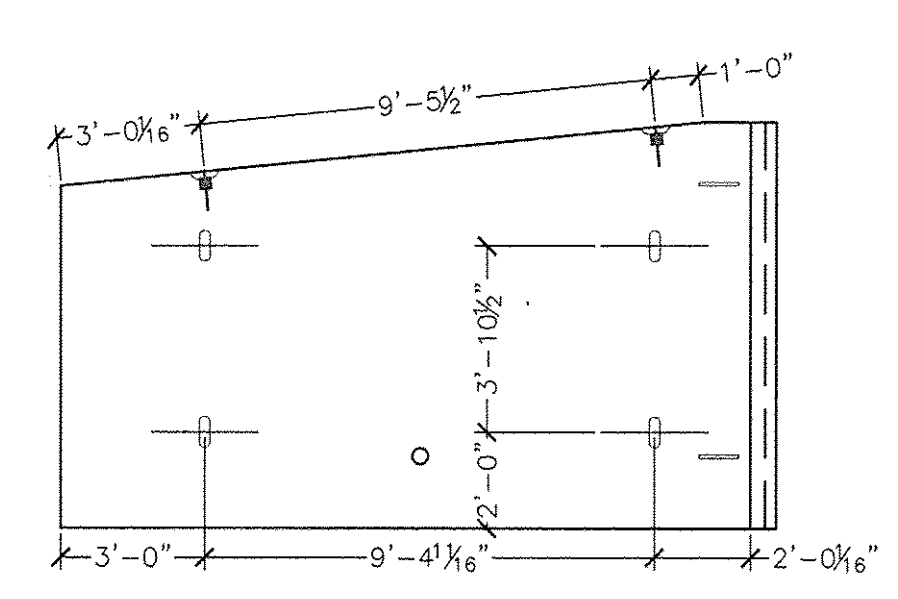
10 FOOTING TO WW ATTACHMENT DETAIL  
S8.0 1" = 1'-0"



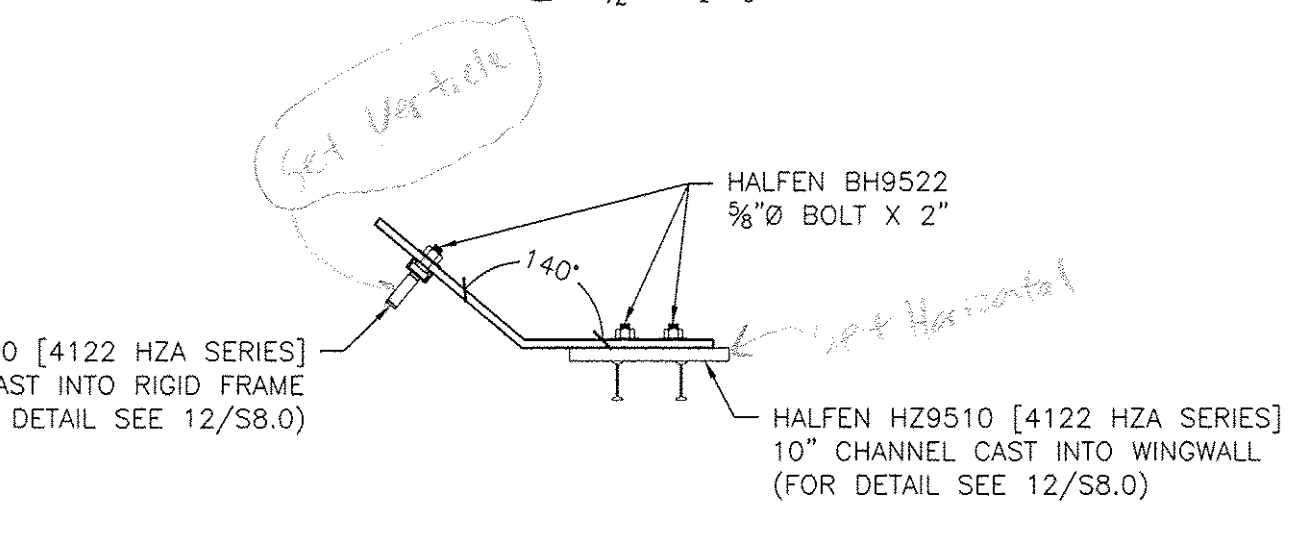
12 HALFEN TOOTHED ANCHOR CHANNEL DETAIL  
S8.0 6" = 1'-0"



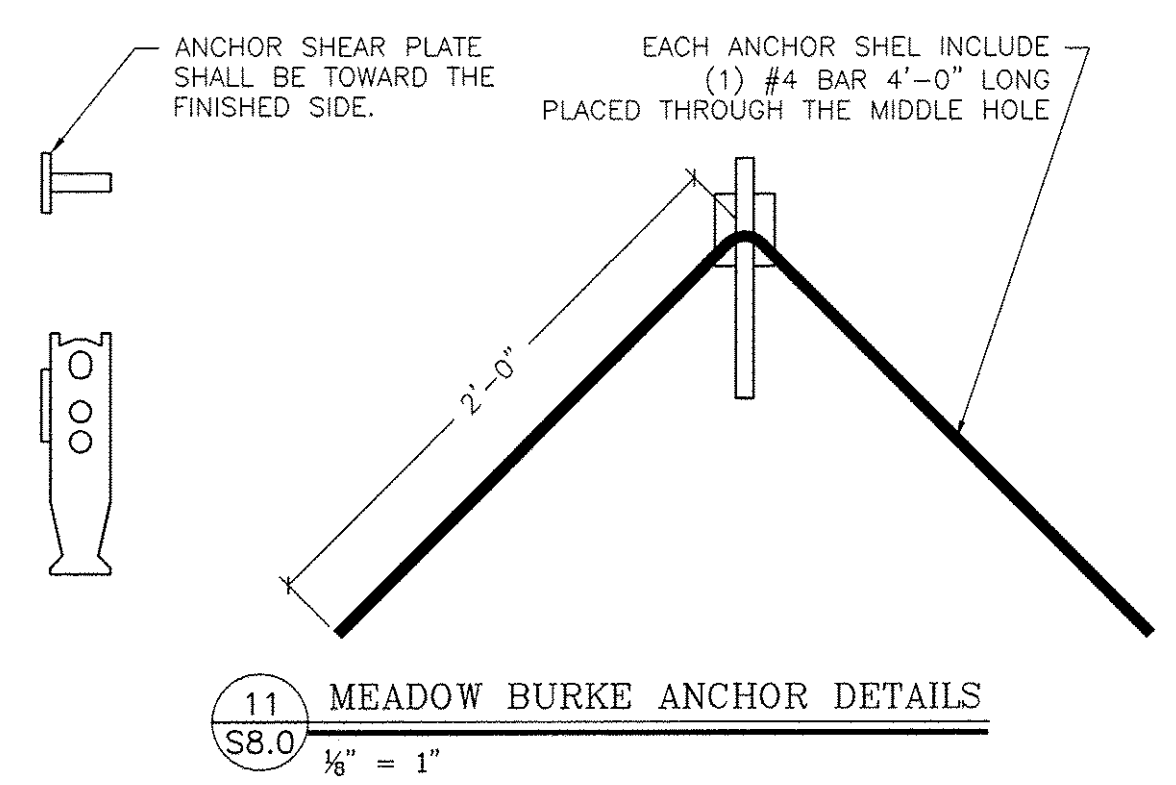
5 WW1 LIFTER LAYOUT (LOOKING AT BACK)  
S8.0 1/2" = 1'-0"



6 WW2 LIFTER LAYOUT (LOOKING AT BACK)  
S8.0 1/2" = 1'-0"



7 WING WALL BRACKET DETAIL  
S8.0 1" = 1'-0"



11 MEADOW BURKE ANCHOR DETAILS  
S8.0 1/2" = 1'

PLATES TO BE MADE OF 1/2" A36 C.R.S. STOCK AND BENT AS REQUIRED (HOT DIPPED GALVANIZED AFTER BENDING)

RECEIVED  
MAY 8 12 2009  
APPROVED BY: CPW DATE: 5/12/09

WHITE MOUNTAIN PRECAST, LLC  
173 BUXTON INDUSTRIAL DRIVE, PO BOX 870  
HENNIKER, NH 03242  
PHONE: 603-428-3218  
FAX: 603-428-7428

25' Span x 6'-6" Rise Rigid Frame Bridge  
Rte 100 Bridge Replacement  
Ludlow, VT

Wingwalls WW1 & WW2

Scale: AS SHOWN  
Checked by: TAF  
Designed by: TL  
Drawn by: PDH  
Project No. 5166  
Date: 01/02/09

Prepared for:  
Miller Construction, Inc.  
P.O. Box 86 Rte 5  
Windsor, VT 05087

DWG NO.  
S8.0