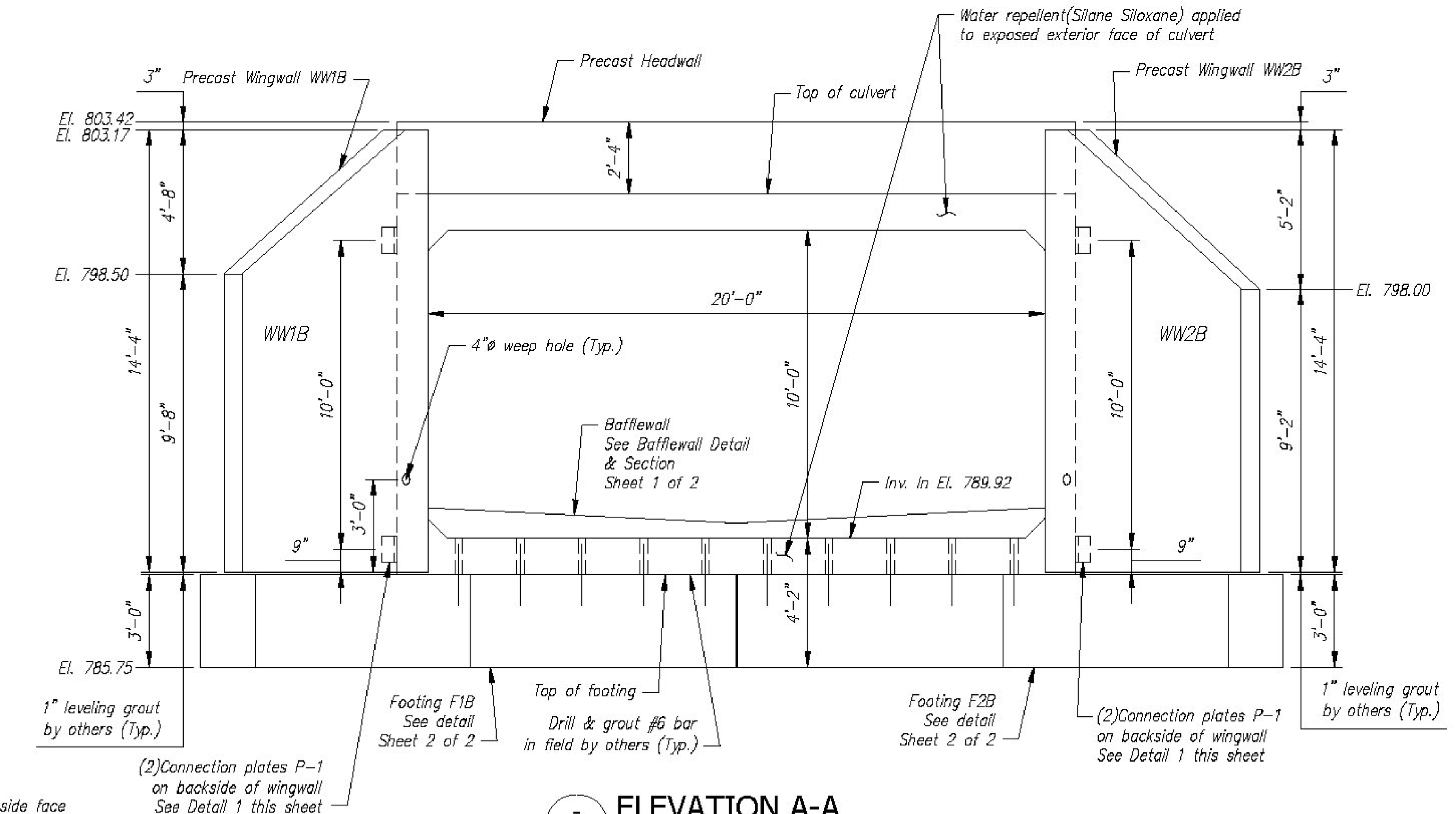
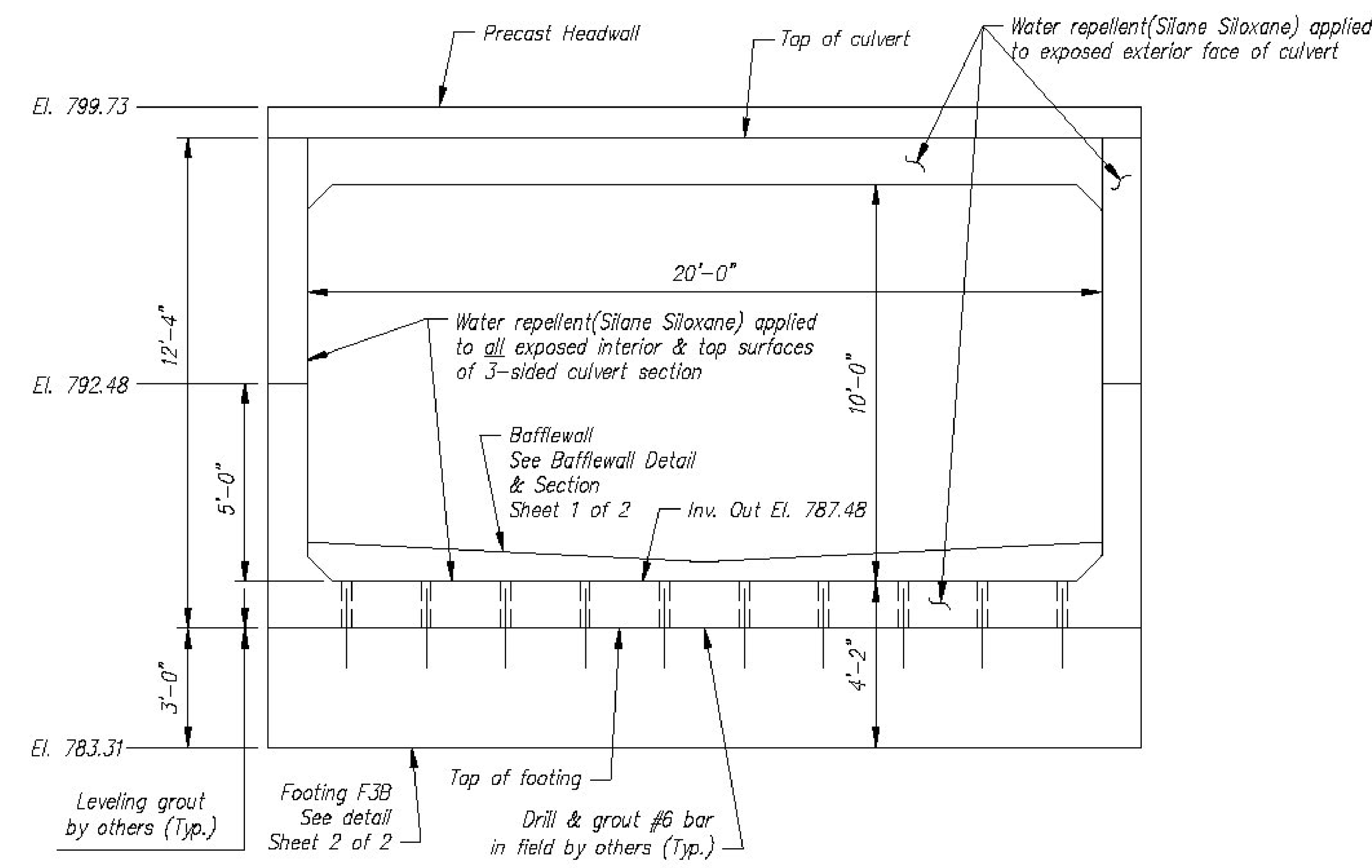


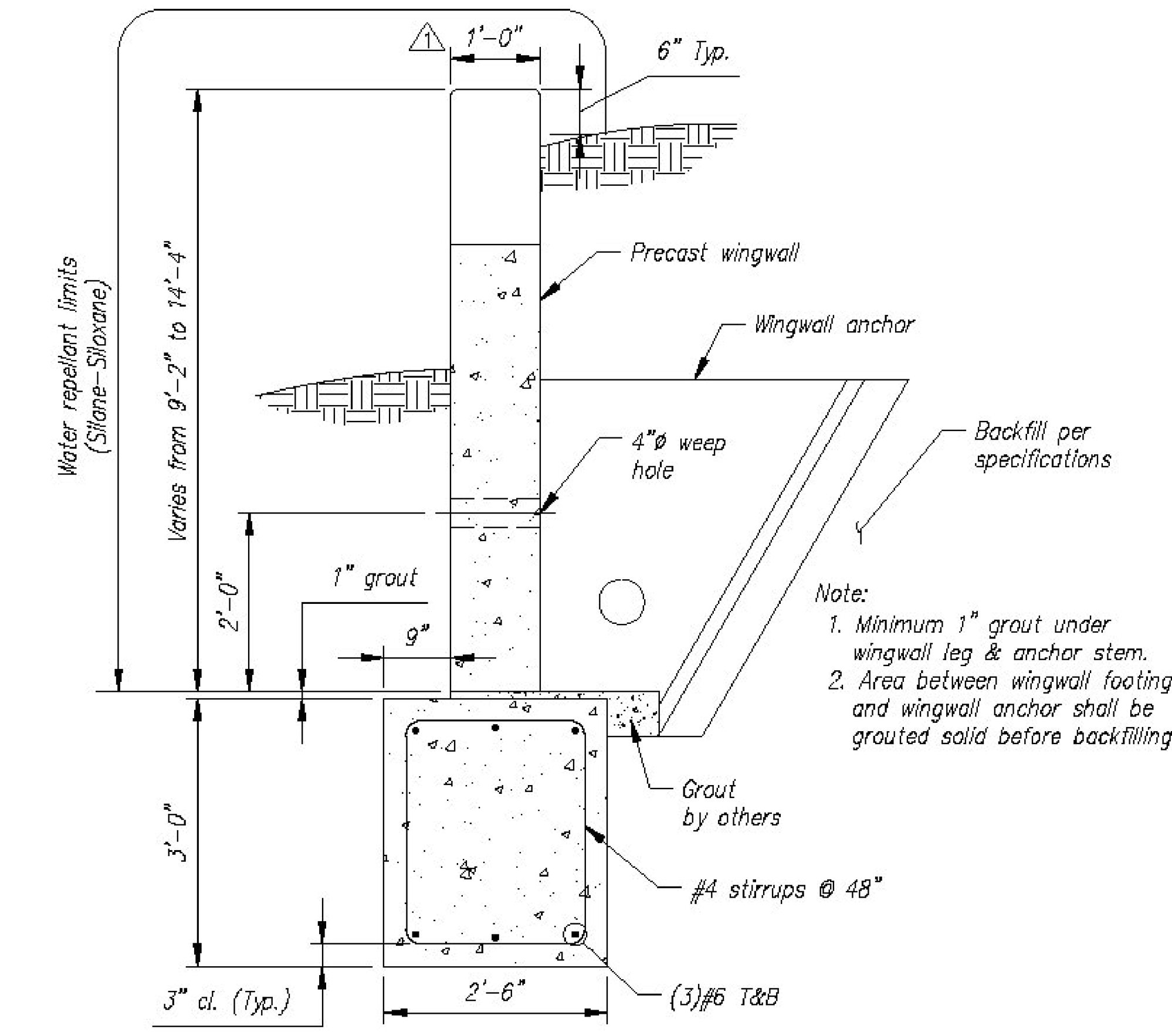
ELEVATION A-A

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



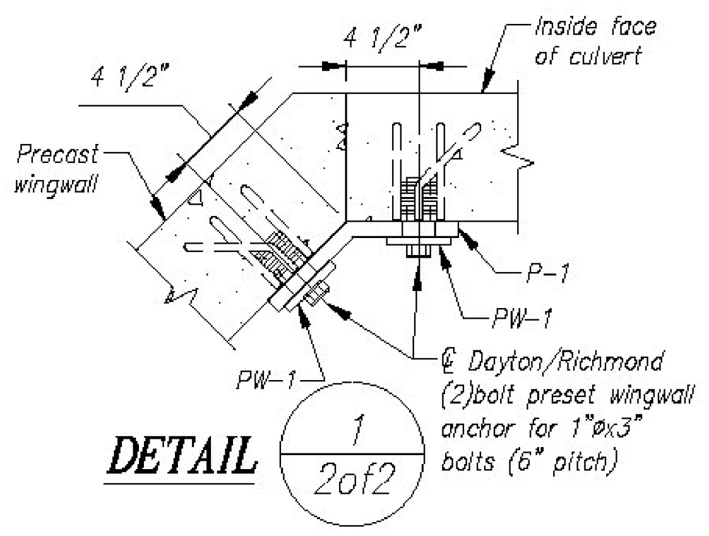
ELEVATION B-B

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

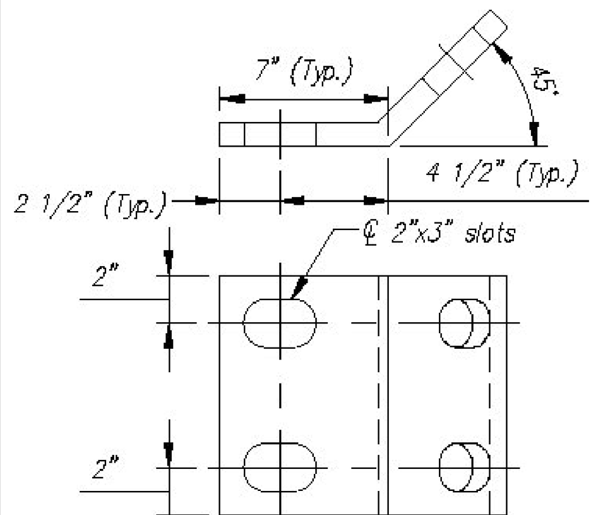


TYPICAL WINGWALL SECTION

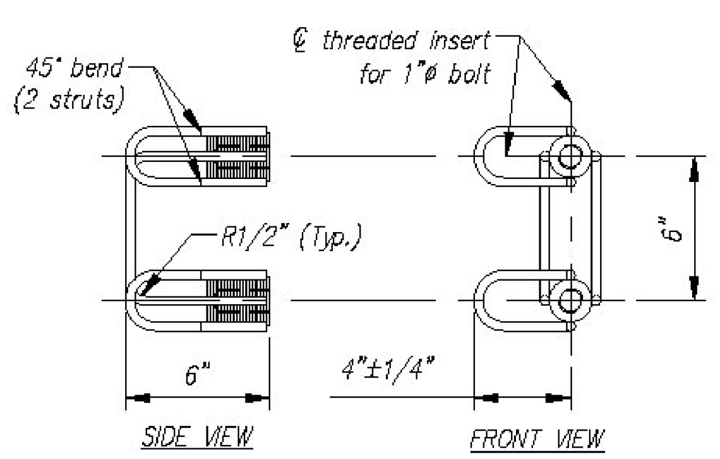
Scale: N.T.S.



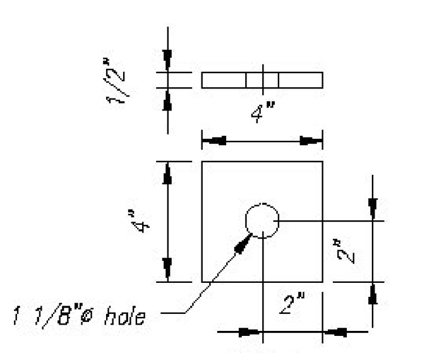
DETAIL 1 / 2of2



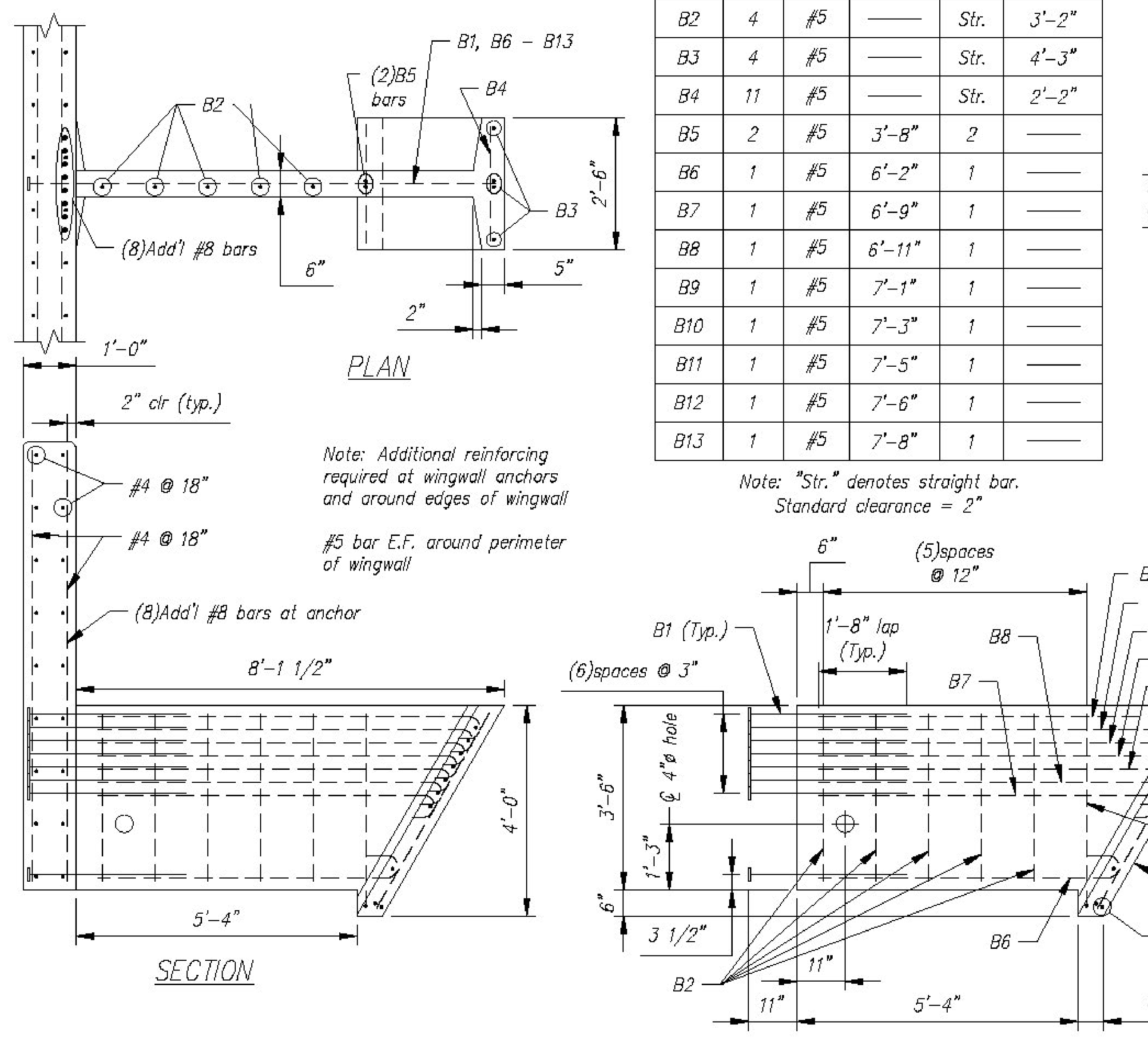
P-1
(℗ 1" x 10" x 14")
(Galvanized as per ASTM A153)
(Total required = 4)



DAYTON/RICHMOND TWO BOLT PRESET ANCHOR



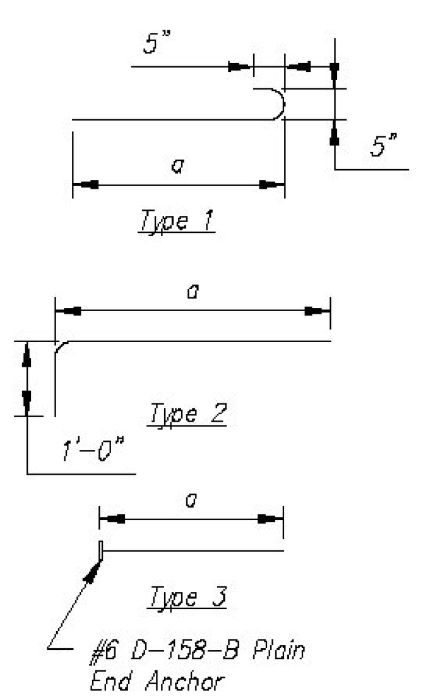
PW-1
(℗ washer, 1/2" x 4" x 4")
(Galvanized as per ASTM A153)
(Total required = 16)



PRECAST ANCHOR TYPE F

BAR LIST					
MARK	QTY.	SIZE	a	TYPE	LENGTH
B1	8	#6	3'-0"	3	———
B2	4	#5	———	Str.	3'-2"
B3	4	#5	———	Str.	4'-3"
B4	11	#5	———	Str.	2'-2"
B5	2	#5	3'-8"	2	———
B6	1	#5	6'-2"	1	———
B7	1	#5	6'-9"	1	———
B8	1	#5	6'-11"	1	———
B9	1	#5	7'-1"	1	———
B10	1	#5	7'-3"	1	———
B11	1	#5	7'-5"	1	———
B12	1	#5	7'-6"	1	———
B13	1	#5	7'-8"	1	———

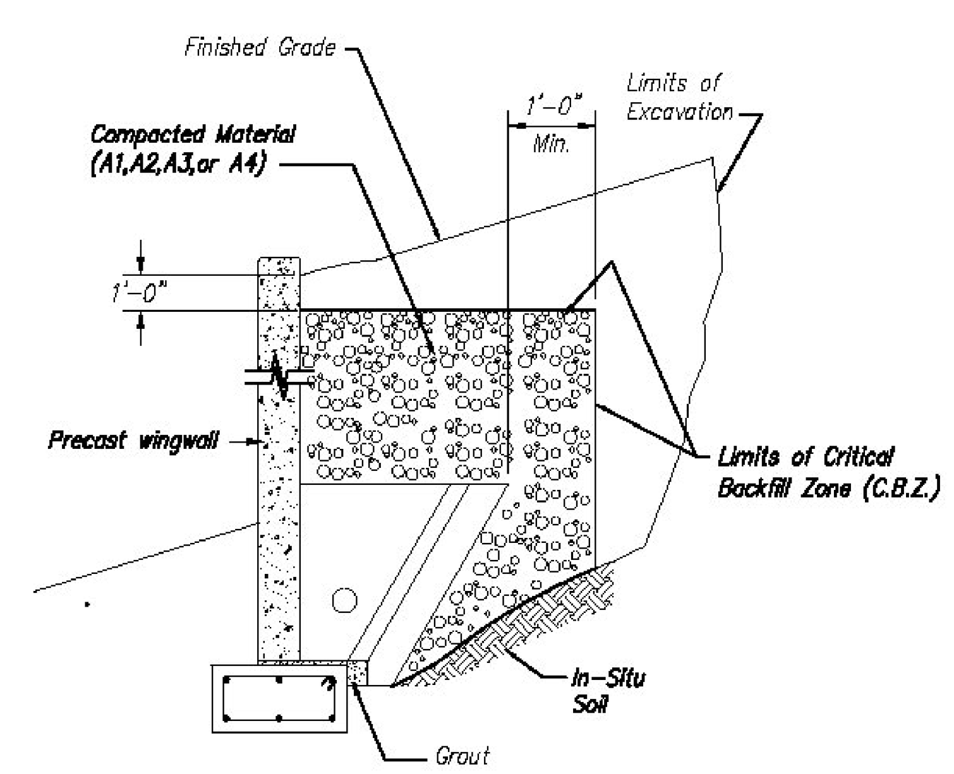
Note: "Str." denotes straight bar.
Standard clearance = 2"



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

BACKFILL DESCRIPTION							
Group Classification	A-1		A-3	A-2			
	A-1-a	A-1-b		A-2-4	A-2-5	A-2-6	A-2-7
Sieve Analysis, Percent Passing							
No. 10	50 max.						
No. 40	30 max.	50 max.	51 min.				
No. 200	15 max.	25 max.	10 max.	35 max.	35 max.	35 max.	35 max.
Characteristics of Fraction Passing No. 40							
Liquid Limit				40 max.	41 min.	40 max.	41 min.
Plasticity Index	6 max.		N.P.	10 max.	10 max.	11 min.	11 min.
Usual Types of Significant Constituent Materials	Stone Fragments, Gravel & Sand		Fine Sand	Silty or Clayey Gravel and Sand			
General Rating as Subgrade	Excellent to Good						

NOTES
1. BACKFILLING OPERATIONS WITHIN THE C.B.Z. SHALL BE PERFORMED IN LIFTS OF 8" OR LESS (LOOSE DEPTH).
2. MAXIMUM DRY DENSITY SHALL BE DETERMINED BY AASHTO T-99 OR OTHER APPROVED METHODS.
3. BACKFILL SHALL BE COMPACTED IN LAYERS UNTIL THE DENSITY IS NOT LESS THAN 95% OF THE MAXIMUM DRY DENSITY.



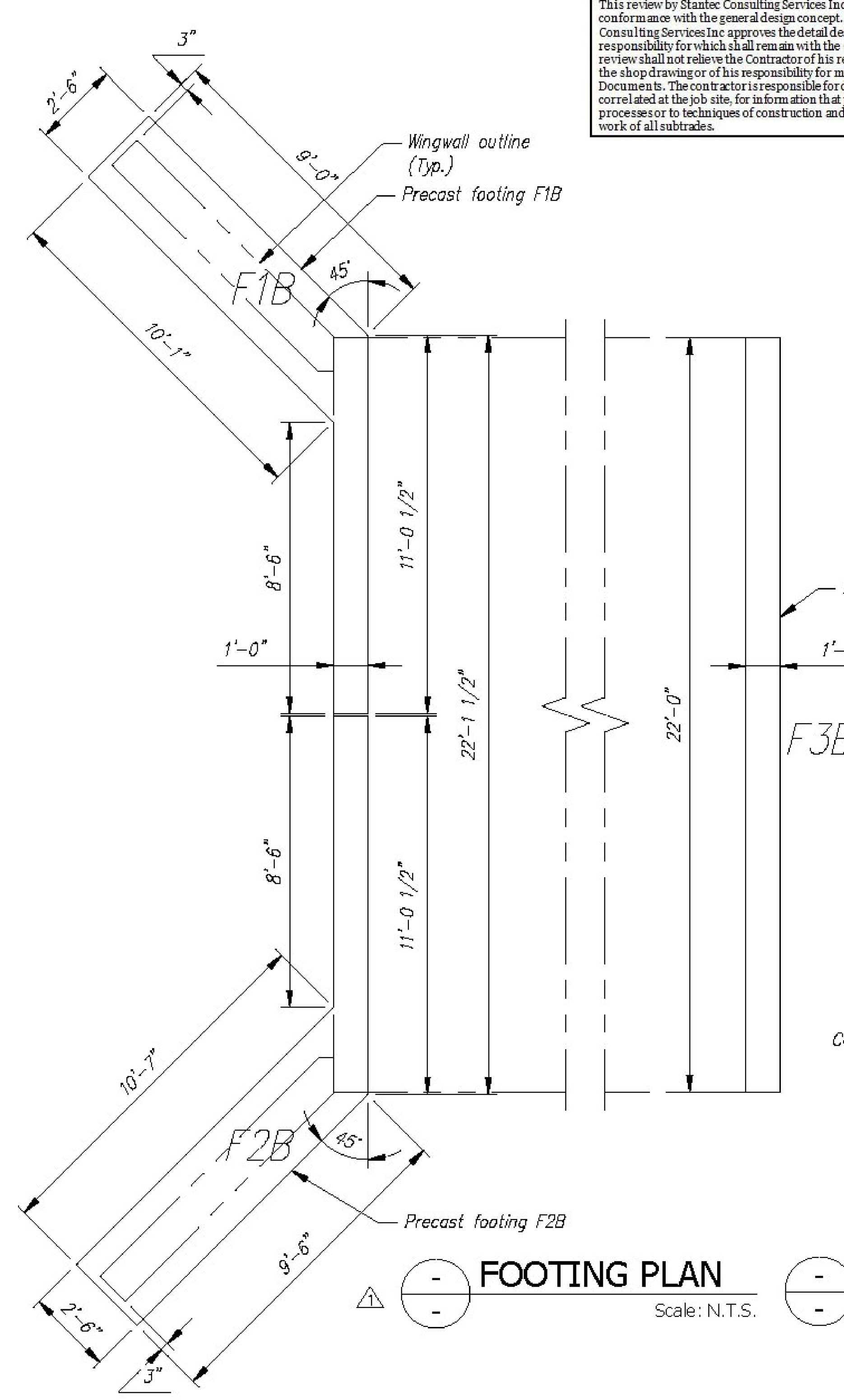
WINGWALL BACKFILL REQUIREMENTS

REVIEWED	X	Stantec
REVIEWED AS MODIFIED		
REVISE AND RESUBMIT		
NOT REVIEWED		

Date: 4/24/2015

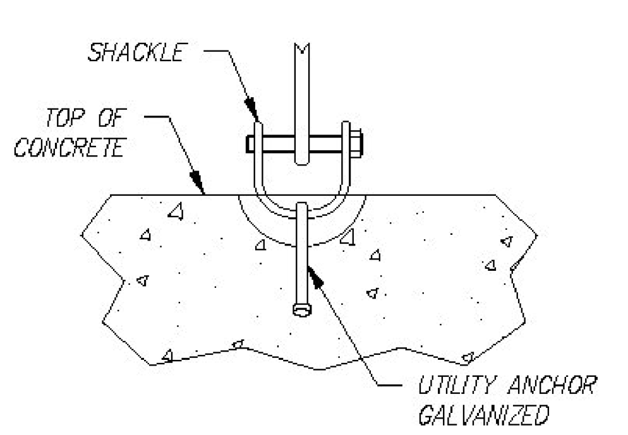
By: Nathan Tirk

This review by Stantec Consulting Services Inc. is for the sole purpose of ascertaining conformance with the general design concept. This review shall not mean that Stantec Consulting Services Inc approves the detail design inherent in the shop drawings, responsibility for which shall remain with the Contractor. Submitting same, and such review shall not relieve the Contractor of his responsibility for errors or omissions in the shop drawing or of his responsibility for meeting all requirements of the Contract Documents. The contractor is responsible for dimensions to be confirmed and correlated at the job site, for information that pertains solely to the fabrication processes or to techniques of construction and installation and for coordination of the work of all subtrades.



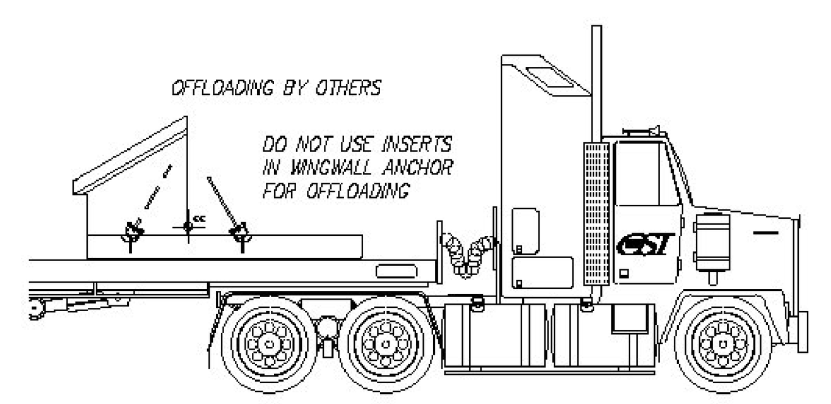
FOOTING PLAN

Scale: N.T.S.



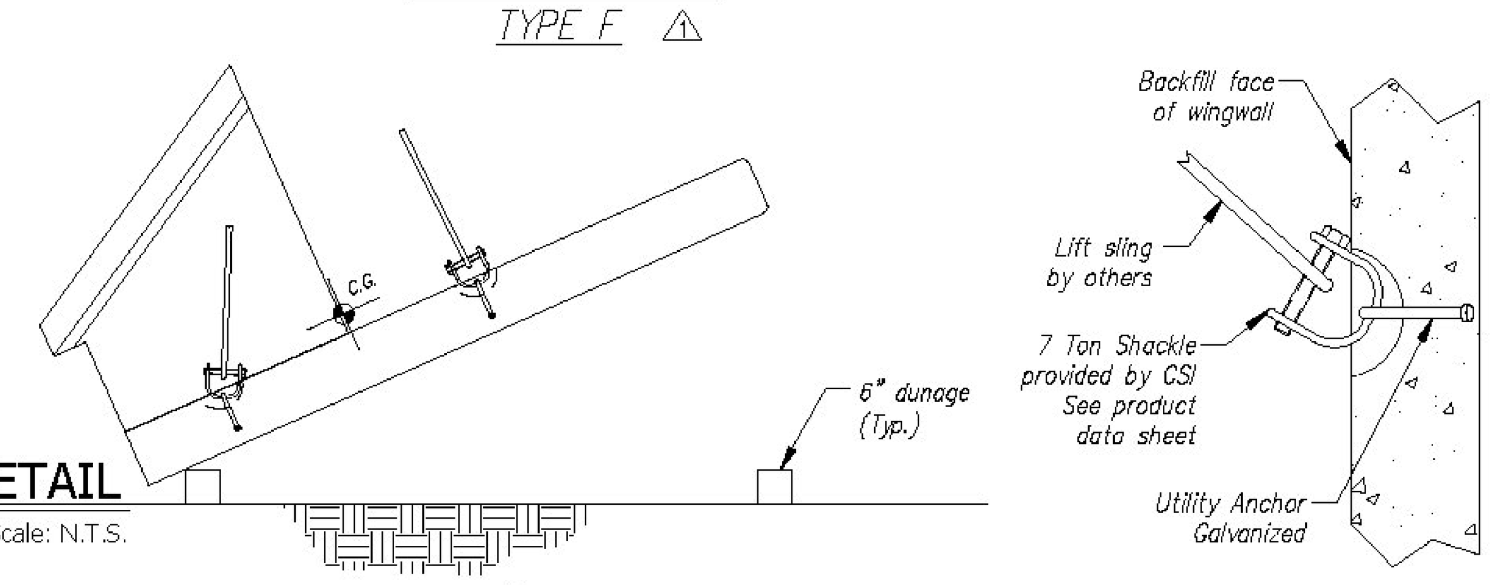
FOOTING LIFTING DETAIL

Scale: N.T.S.



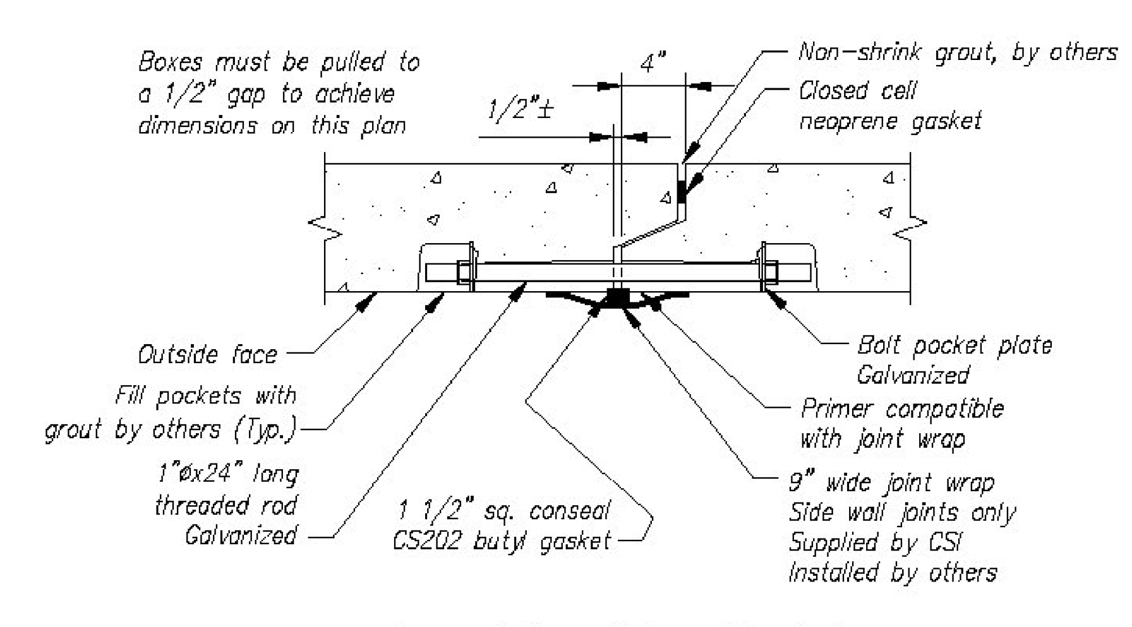
WINGWALL OFFLOADING & TRIPPING DETAIL

Scale: N.T.S.



WINGWALL LIFTING DETAIL

Scale: N.T.S.



CLOSURE HARDWARE DETAIL

Scale: N.T.S.

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

REVISIONS

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 INPROVEMENT 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

D — 20' SPAN x 10' RISE BOX CULVERT LAYOUT — REV 1
Drawing No. C22283-LO2B
Quantity: 1 — Project No: STPCULV30 — SHEET 2B OF 2B