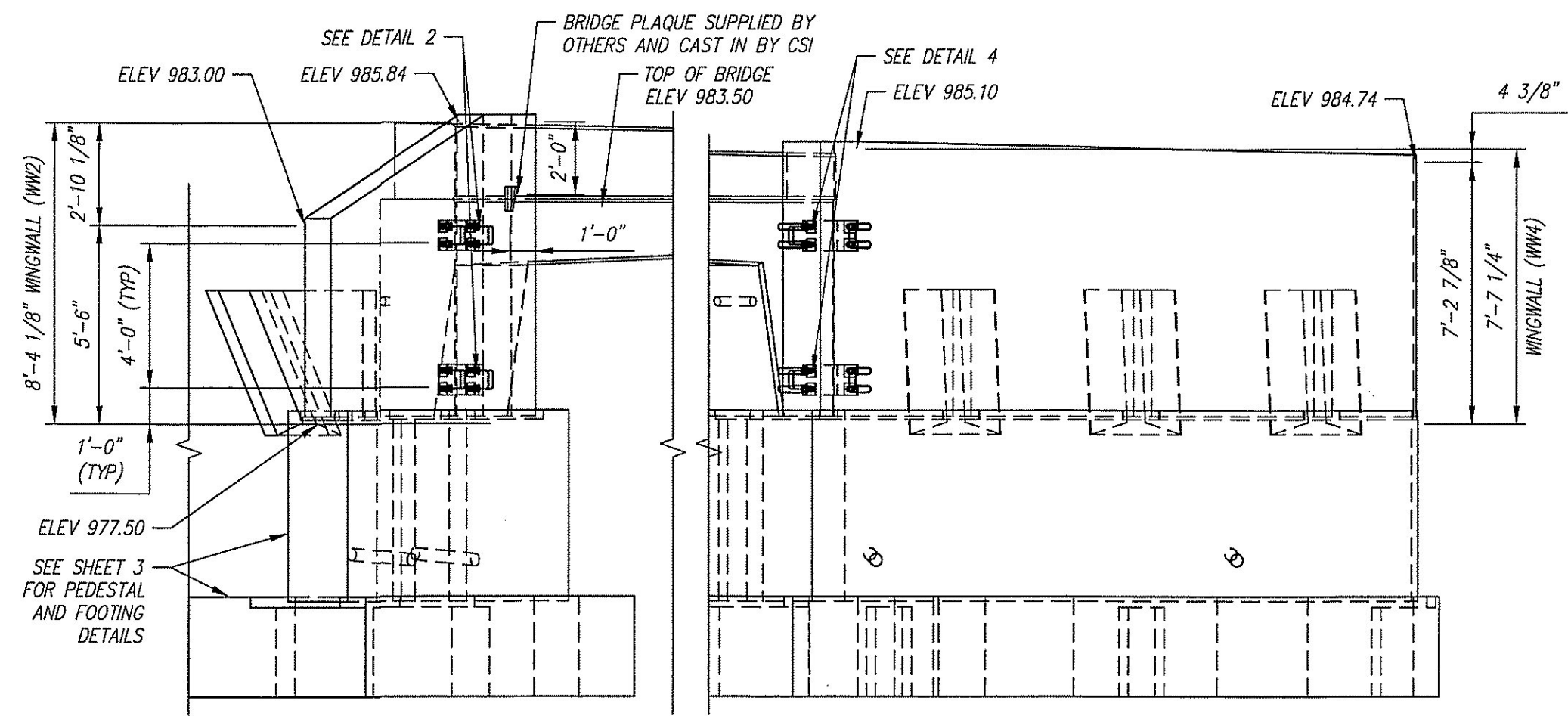


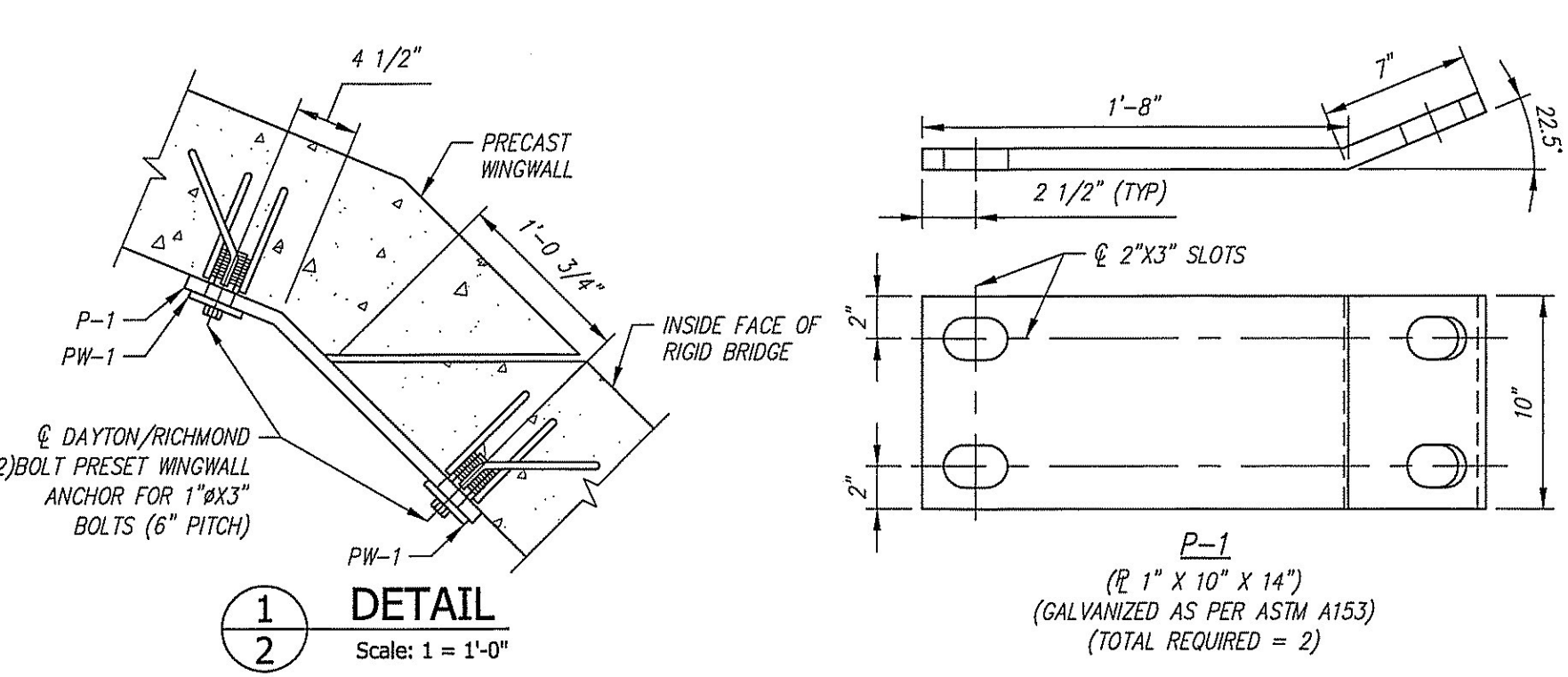
C-C WEST END ELEVATION
SCALE: 1/4" = 1'-0"



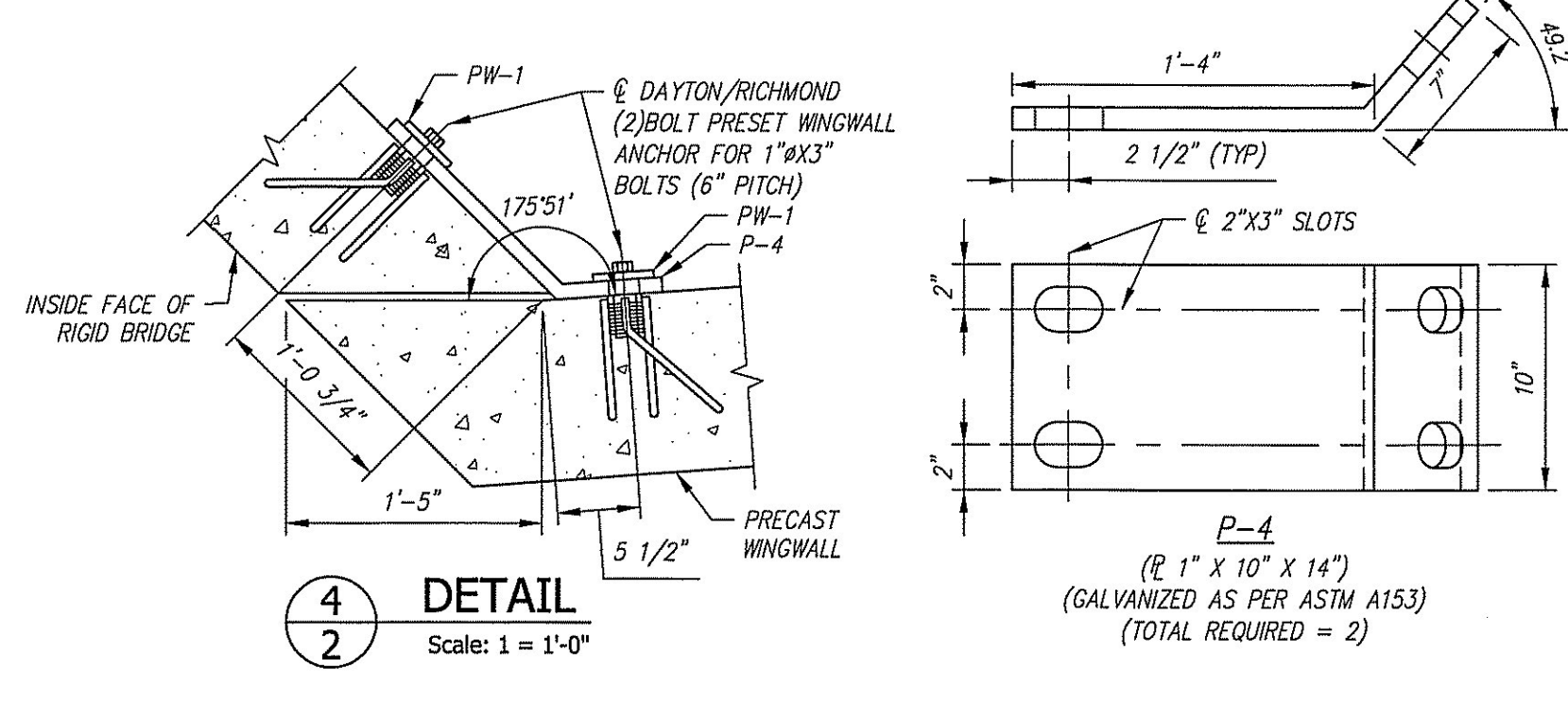
D-D EAST END ELEVATION
SCALE: 1/4" = 1'-0"

SEE SHOP DRAWINGS FOR ADDITIONAL DETAILS.

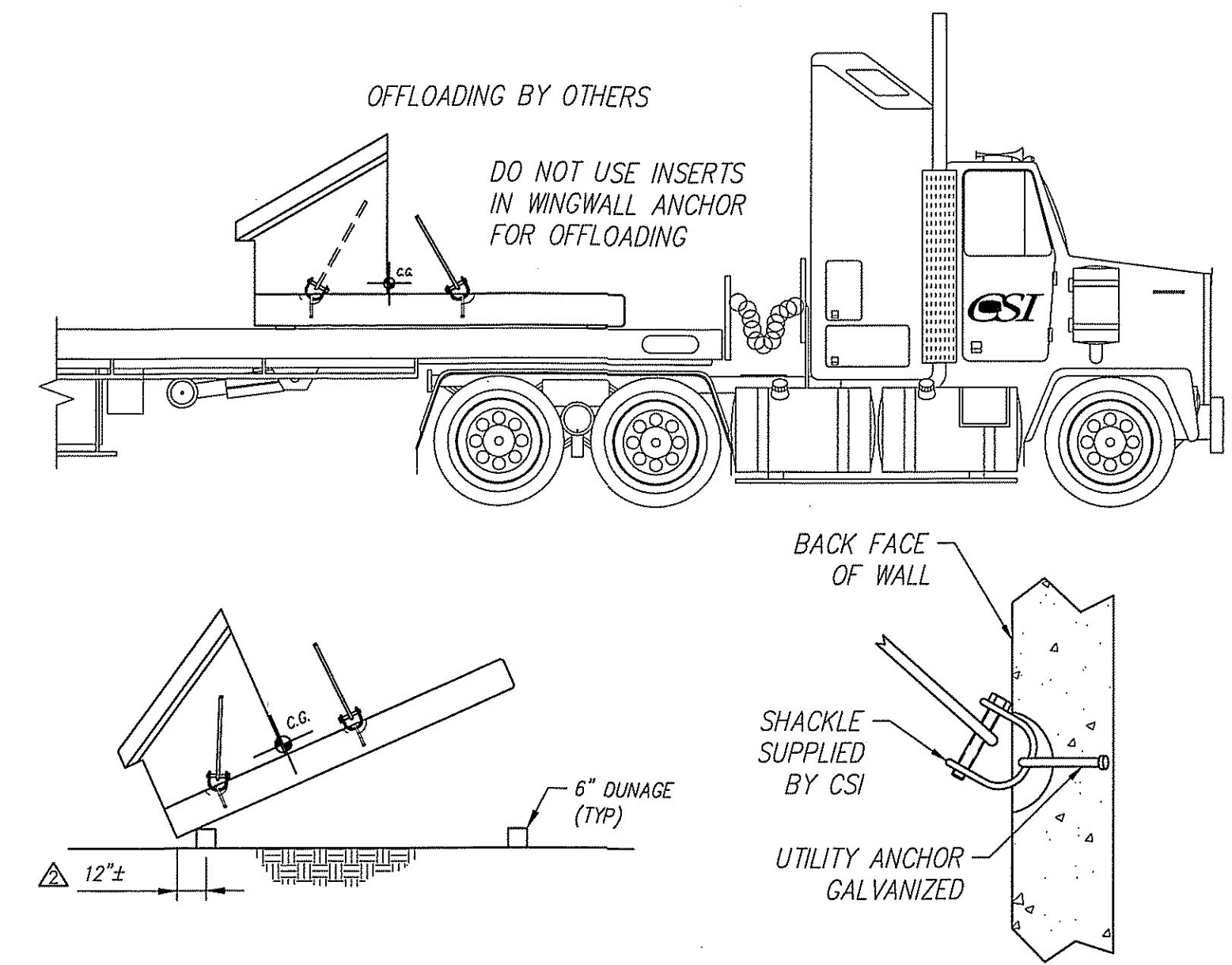
- WINGWALL GENERAL NOTES:**
- REFERENCE STANDARD: AASHTO LRFD SPECIFICATIONS
 - DESIGN PARAMETERS:
SOIL BEARING: 3000 PSF (TO BE VERIFIED BY ENGINEER)
CONCRETE: DESIGN STRENGTH $f'_c = 4000$ PSI
STRIPPING STRENGTH $f'_c = 2500$ PSI
UNIT WEIGHT = 150 PCF
REINFORCING: ASTM A615 (REBAR), GRADE 60, EPOXY COATED (VTADOT LEVEL 1)
SOIL: UNIT WEIGHT = 140 PCF
MINIMUM LATERAL PRESSURE COEFFICIENT .25
MAXIMUM LATERAL PRESSURE COEFFICIENT .50
COVER TO REINFORCING: 2" U.N.O.
 - 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.
 - FOR CURING METHOD, SEE SECTION 5.5 IN THE CSI QUALITY CONTROL MANUAL.



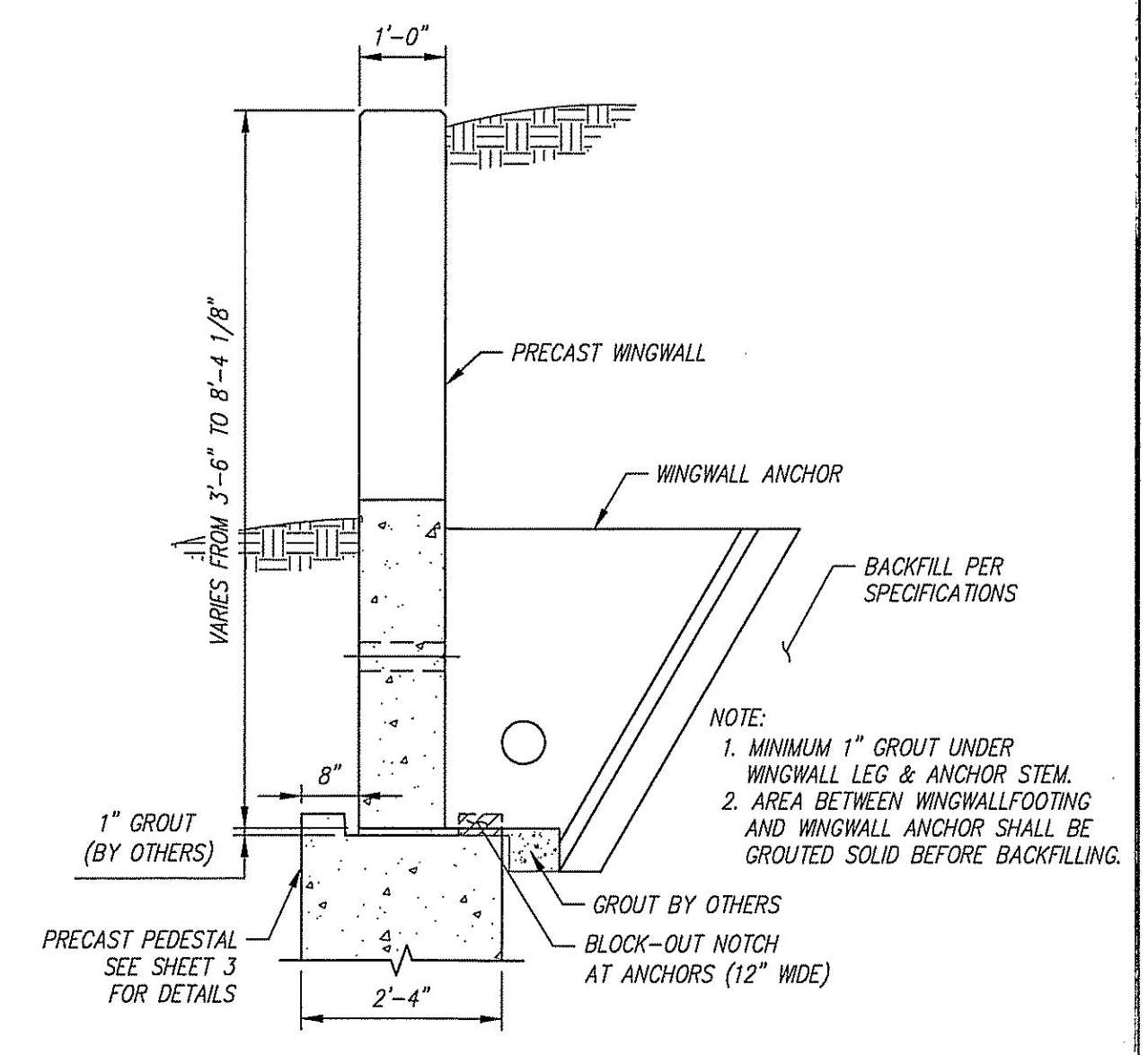
DETAIL 1
SCALE: 1 = 1'-0"



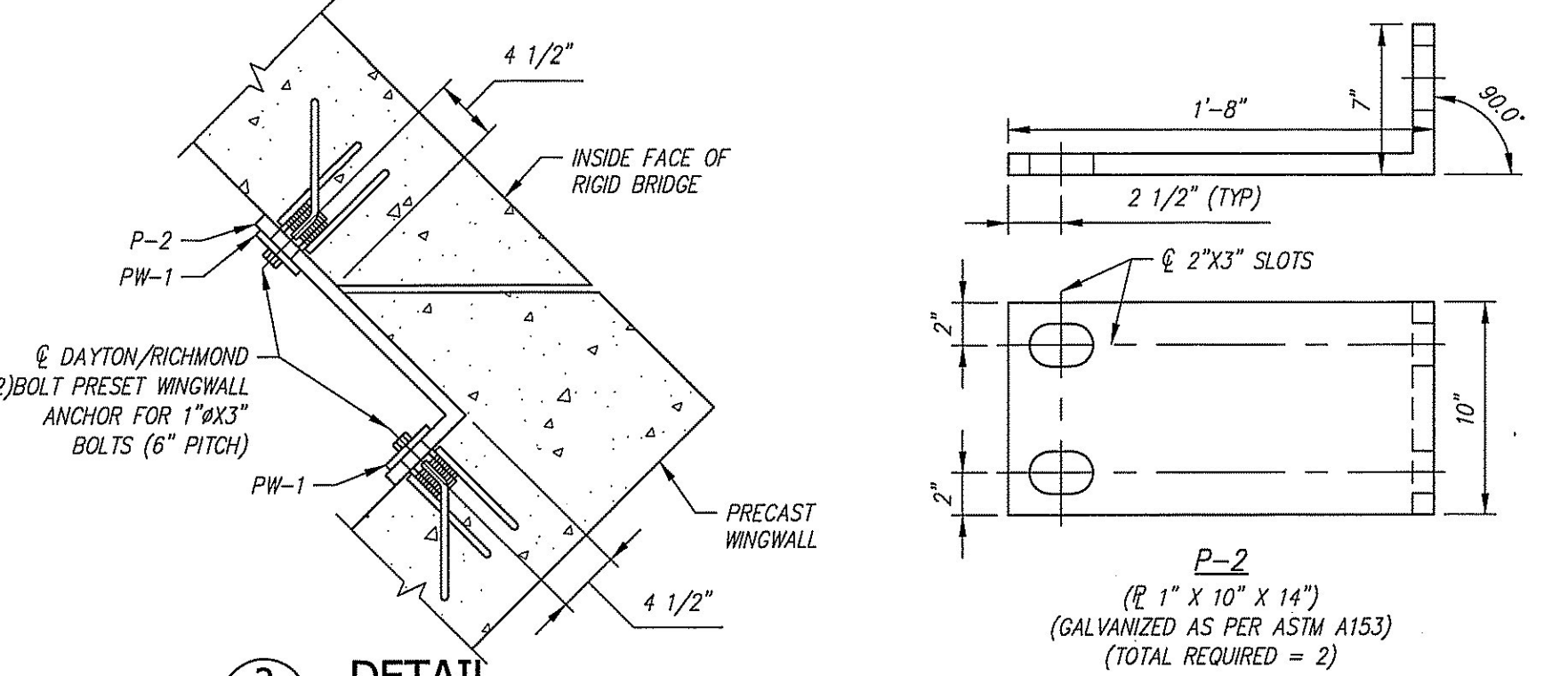
DETAIL 2
SCALE: 1 = 1'-0"



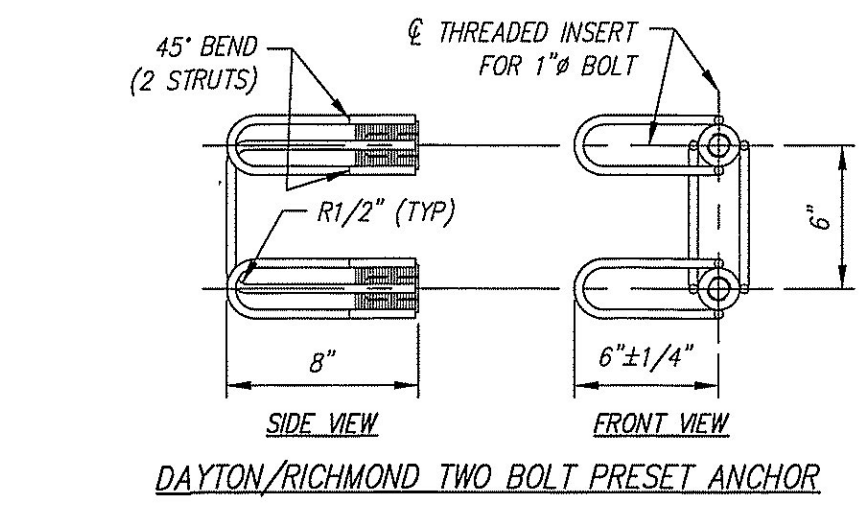
WINGWALL LIFTING/OFFLOADING & TRIPPING DETAILS
SCALE: N.T.S.



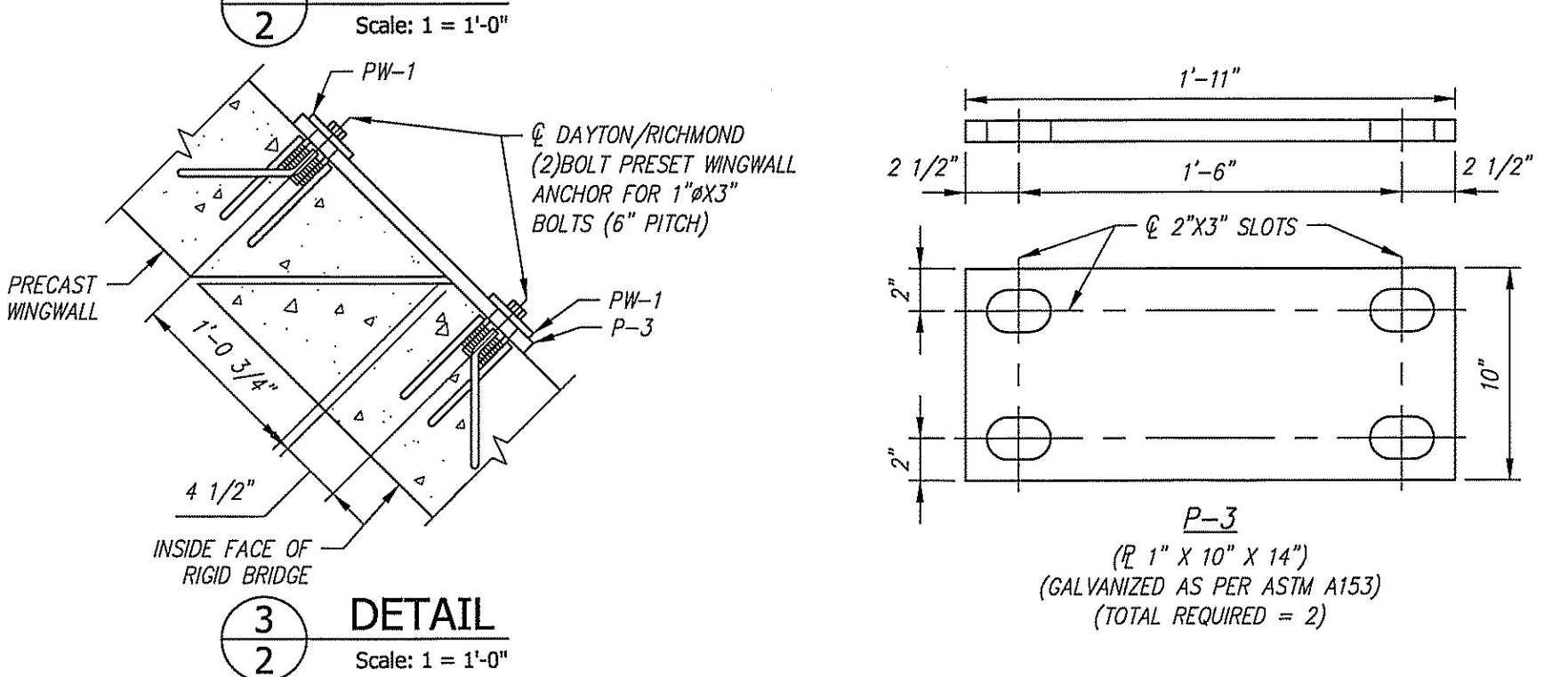
TYPICAL WINGWALL SECTION
SCALE: 1/2" = 1'-0"



DETAIL 3
SCALE: 1 = 1'-0"



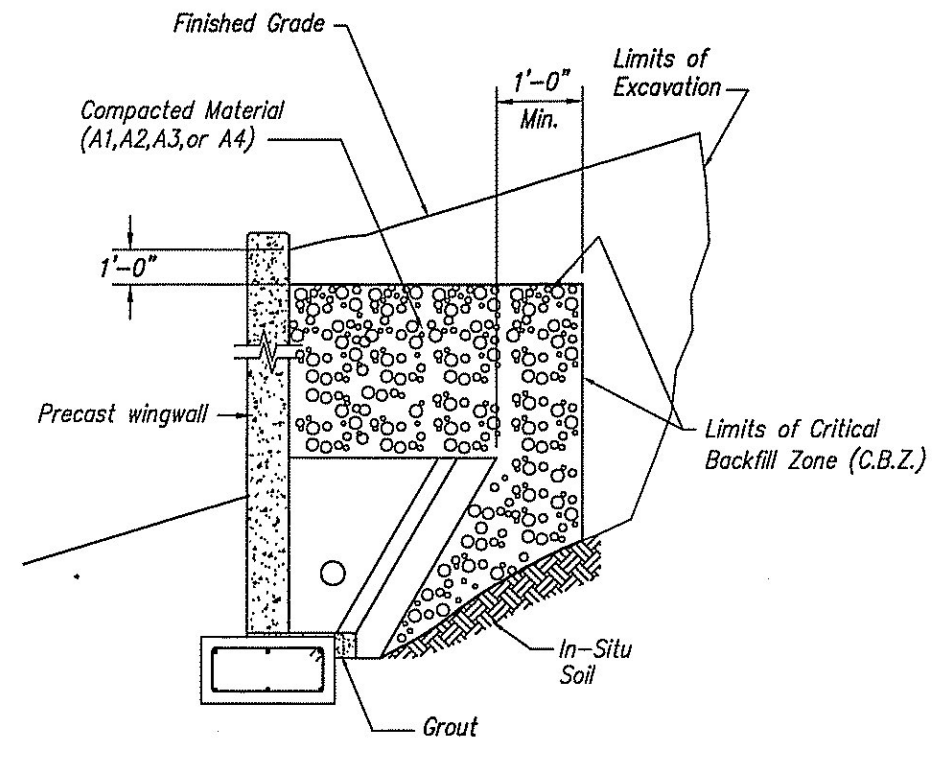
DAYTON/RICHMOND TWO BOLT PRESET ANCHOR



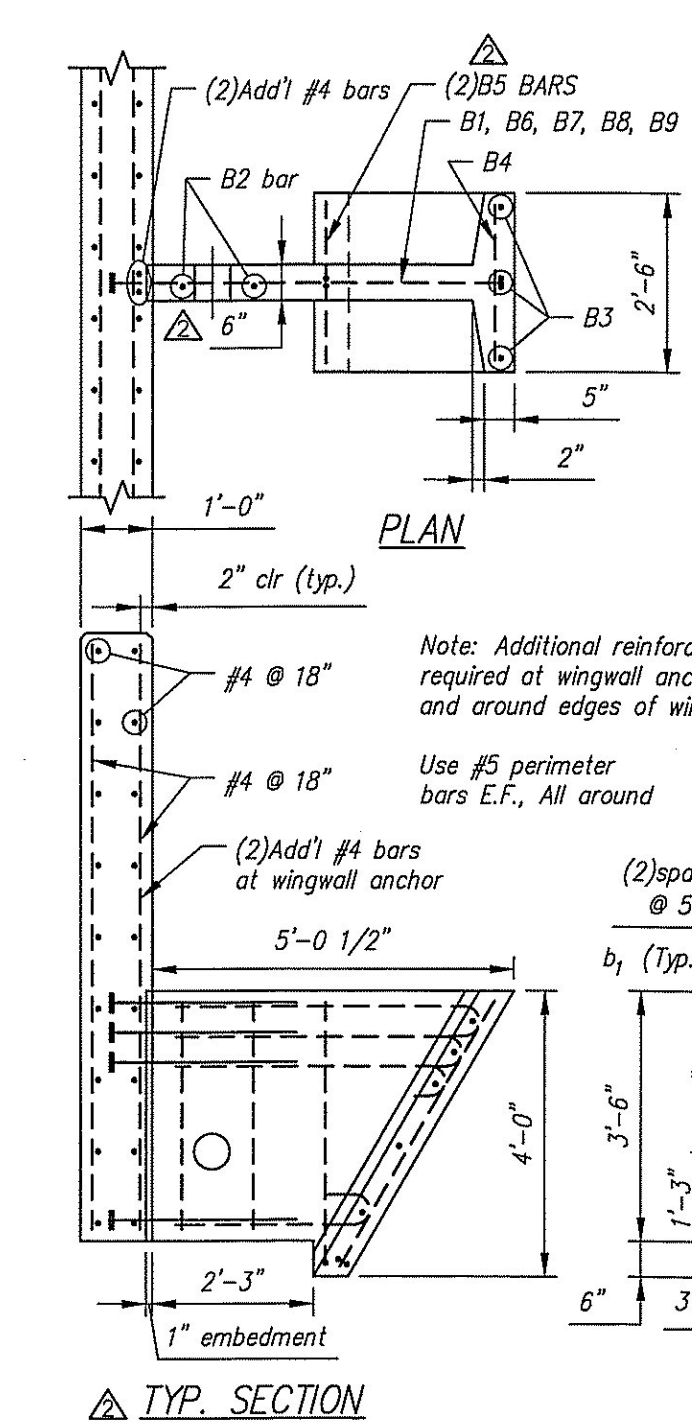
DETAIL 4
SCALE: 1 = 1'-0"

Group Classification	BACKFILL DESCRIPTION						
	A-1	A-3	A-2				A-2-7
	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				40 max.	41 min.	40 max.	41 min.
Liquid Limit				10 max.	10 max.	11 min.	11 min.
Plasticity Index	6 max.		N.P.				
Usual Types of Significant Constituent Materials	6 max.		N.P.				
General Rating as Subgrade	Gravel & Sand		Excellent to Good				

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



WINGWALL BACKFILL REQUIREMENTS



TYP. SECTION

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

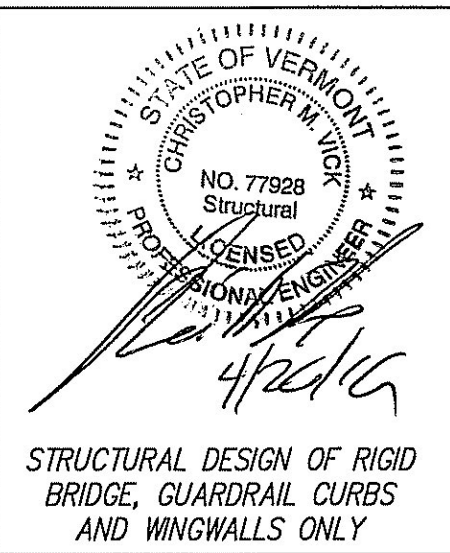
Note: "Str." denotes straight bar. Standard clearance = 2"

REVIEWED:		
REVIEWED, REVISIONS NOTED:		
REVISE AND RESUBMIT:		
NOT REVIEWED:		
Date:	4/27/16	
Signature:	<i>[Signature]</i>	

Stantec

Vermont Agency of Transportation
RECEIVED
 ON: April 27, 2016
 and Checked for CONFORMANCE
 BY: Rob Young DATE: 04/28/2016

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.



10			
9			
8			
7			
6			
5			
4			
3	04/13/2016	ADDED STRIPPING STRENGTH AND CURING METHOD NOTES.	AK
2	04/08/2016	SEE REV2 TRIANGLES.	AK
1	03/23/2016	SEE REV1 TRIANGLES.	AK

Rev.	Date	DESCRIPTION	By
		REVISIONS	

This drawing is based upon information provided from the following documents and/or sources:
 Engineer: STANTEC CONSULTING SERVICES, INC.
 Project No:
 Drawings: PROJECT PLANS
 Specifications:
 Other Sources:



Drawn by	A. KOSTENKO	Date	02/03/2016
Reviewed by		Date	
Approved by		Date	

VTAOT PROJ. NO.: BRF 0151(21)	
MILLER CONSTRUCTION, INC. ROUTE 106 BRIDGE REPLACEMENT T.H. 61 (KENDALL ROAD) WOODSTOCK, VT	
ELEVATIONS AND WINGWALL DETAILS	
Drawing No.	R-S22624-L01B
Quantity:	Project No:
SHEET 2 OF 4	