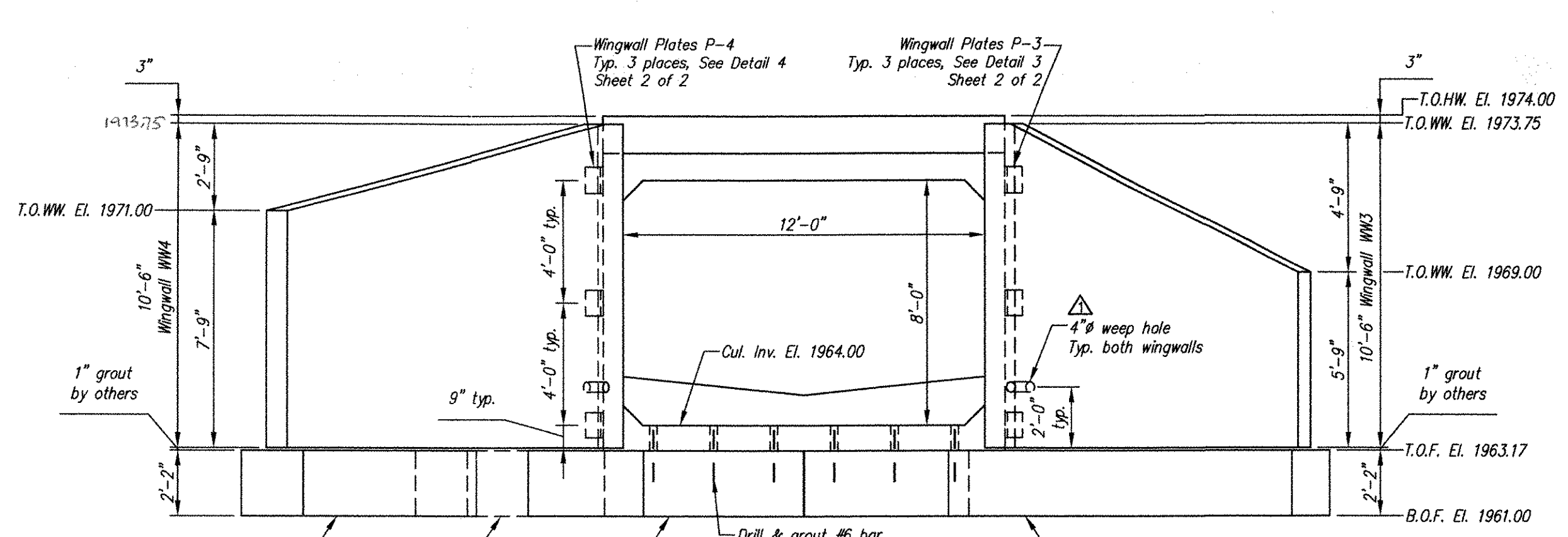


ELEVATION D-D
1 of 2



ELEVATION E-E
1 of 2

WINGWALL NOTES

GENERAL NOTES:
 1. 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.
 2. Prior to construction, contractor must verify all elevations shown through the engineer.

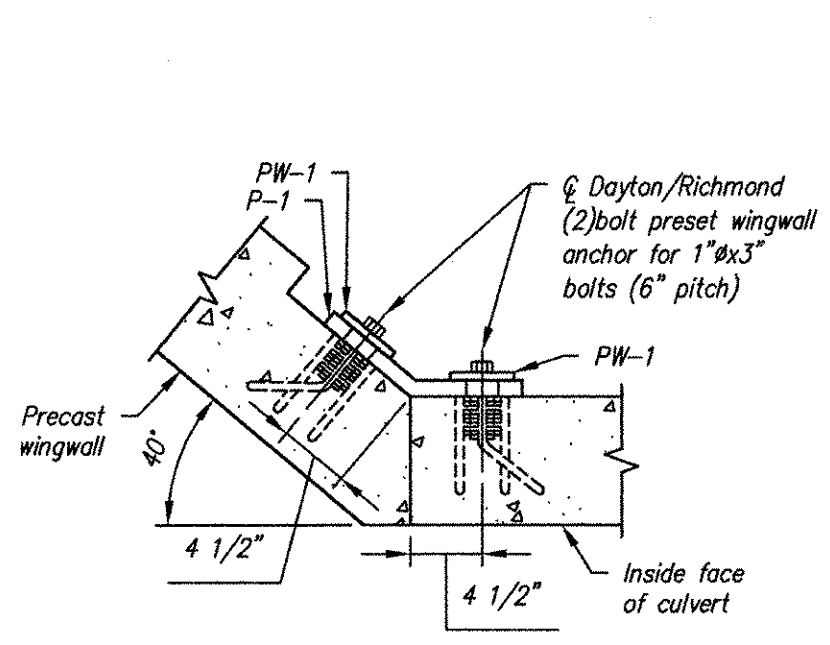
DESIGN DATA
 Design Method: Load factor per AASHTO Specification
 Assumed Allowable Soil Bearing: 3000 PSF (Verify)
 Wingwalls designed for Earth Pressure + Live Load Surcharge

MATERIALS
 -Precast units shall be constructed and installed in accordance with CON/SPAN Specifications.
 -Concrete for Footings and Wingwalls shall have a minimum compressive strength of 4000 psi.
 -Reinforcing steel for Footings and Wingwalls shall conform to ASTM A615, A616 or A617-Grade 60.

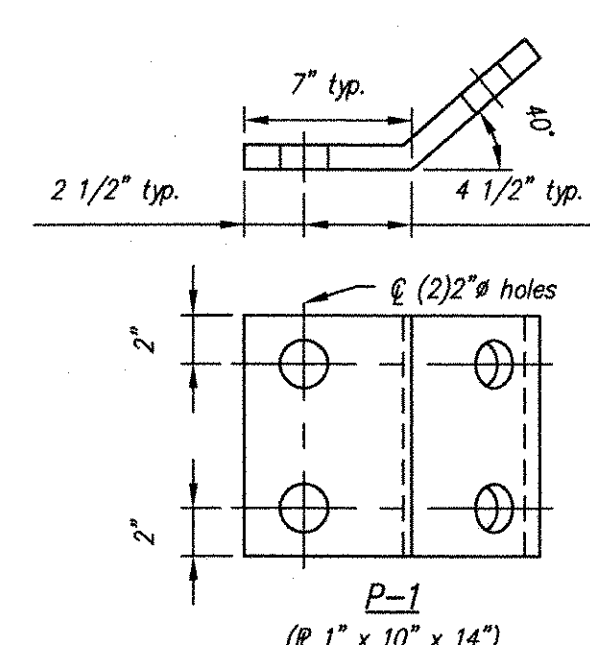
MARK	QTY	LENGTH	YDS	WEIGHT
WW1	1	20.00'	8.16	16.52 TONS
WW2	1	13.00'	4.95	10.02 TONS
WW3	1	12.00'	3.89	7.88 TONS
WW4	1	19.50'	7.25	14.88 TONS
F1a	1	10.00'	2.01	4.06 TONS
F1b	1	13.81'	2.77	5.61 TONS
F2	1	19.76'	3.96	8.03 TONS
F3	1	18.62'	3.74	7.56 TONS
F4b	1	13.35'	2.68	5.42 TONS
F4d	1	10.00'	2.01	4.06 TONS

Footings to be 4,000 psi (MX-FA4000SM)

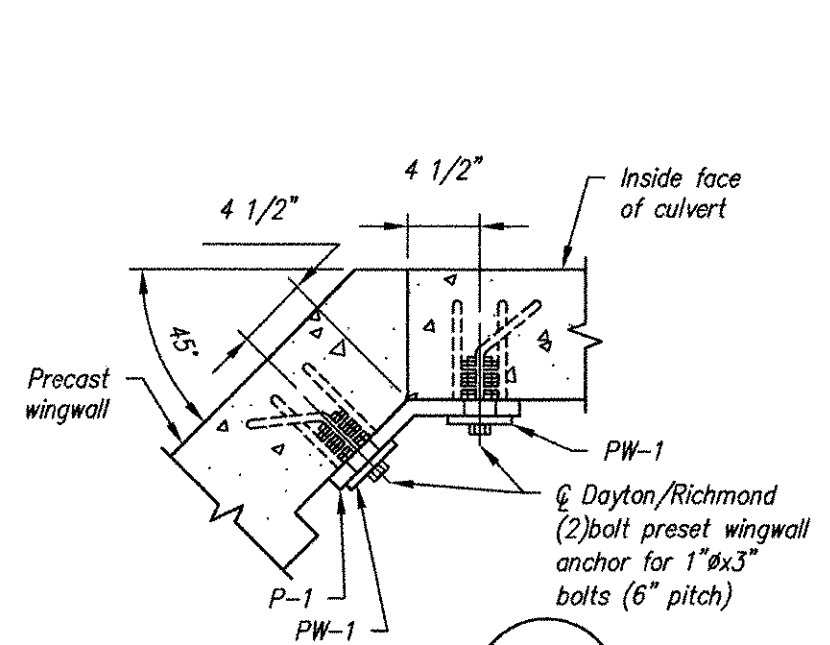
ADD TABLE



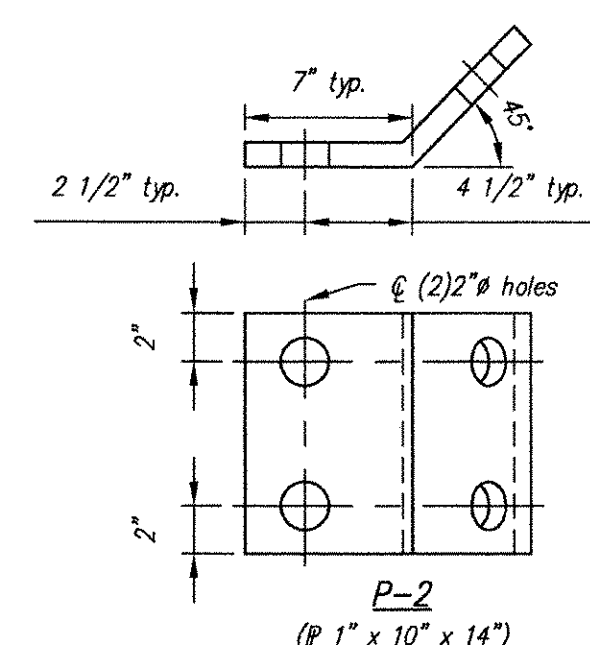
DETAIL 1
1, 2 of 2



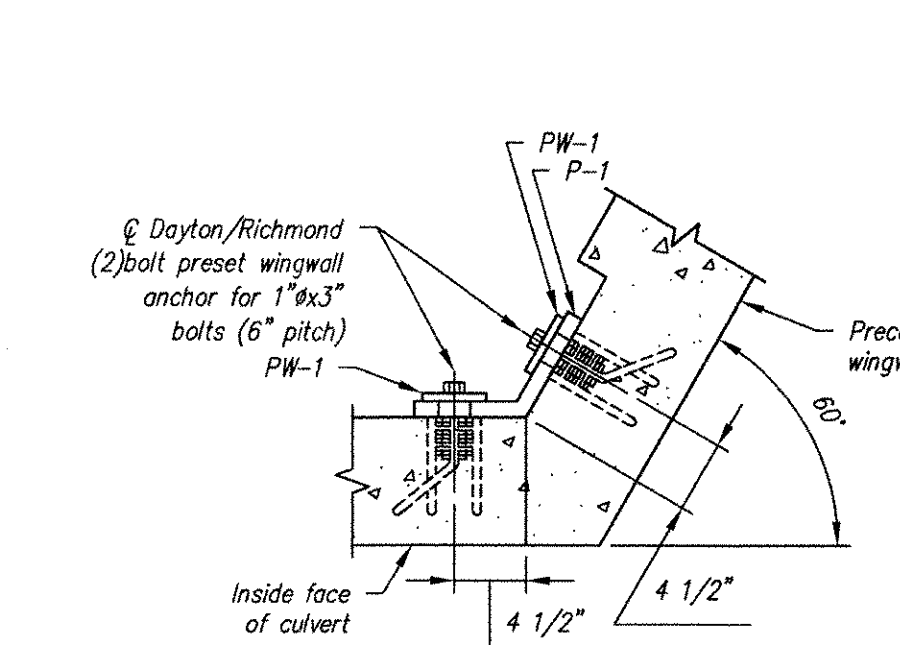
DETAIL 2
1, 2 of 2



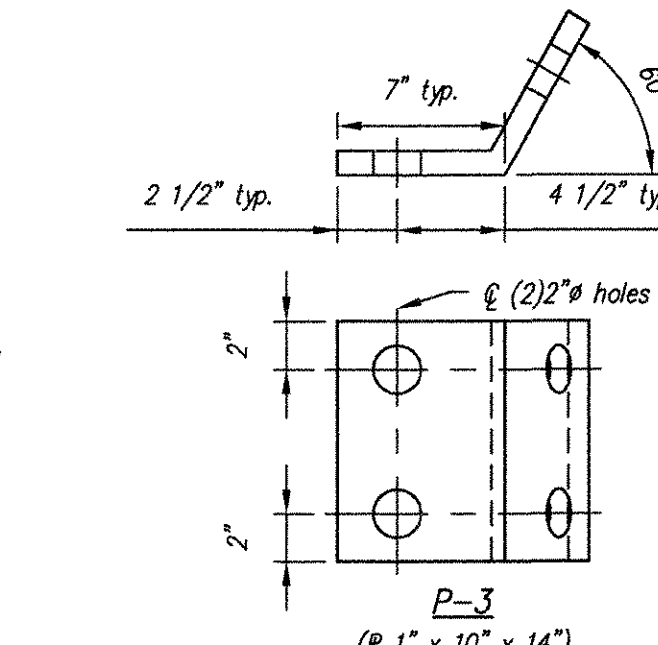
DETAIL 3
1, 2 of 2



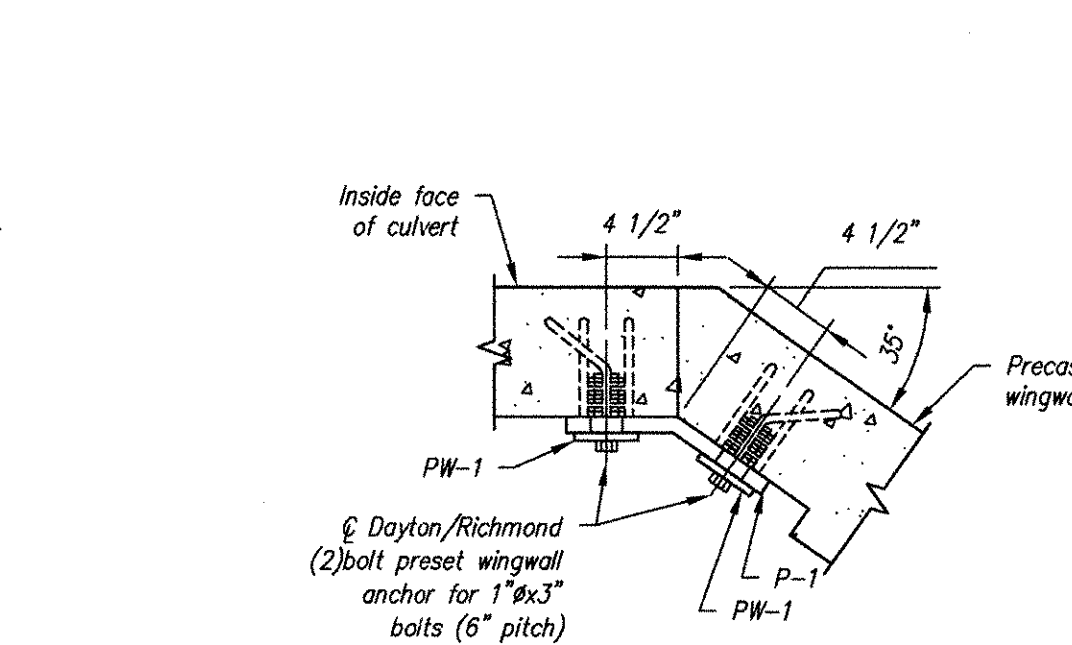
DETAIL 4
1, 2 of 2



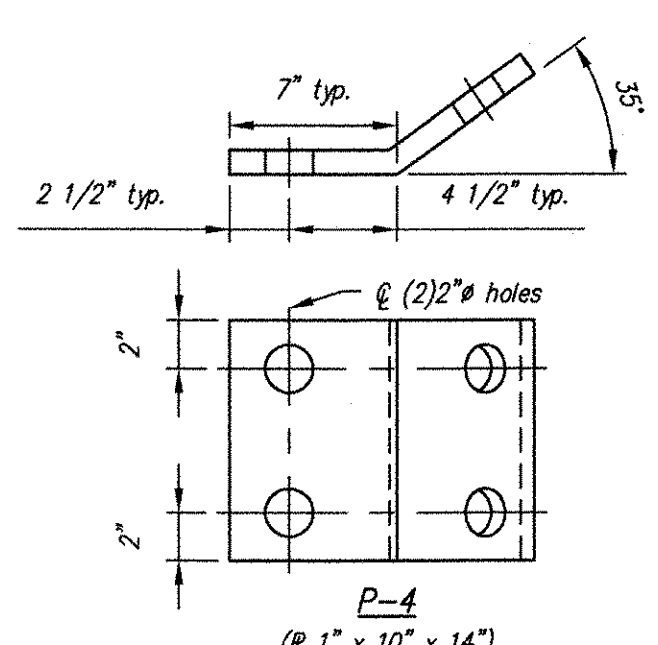
DETAIL 5
1, 2 of 2



DETAIL 6
1, 2 of 2



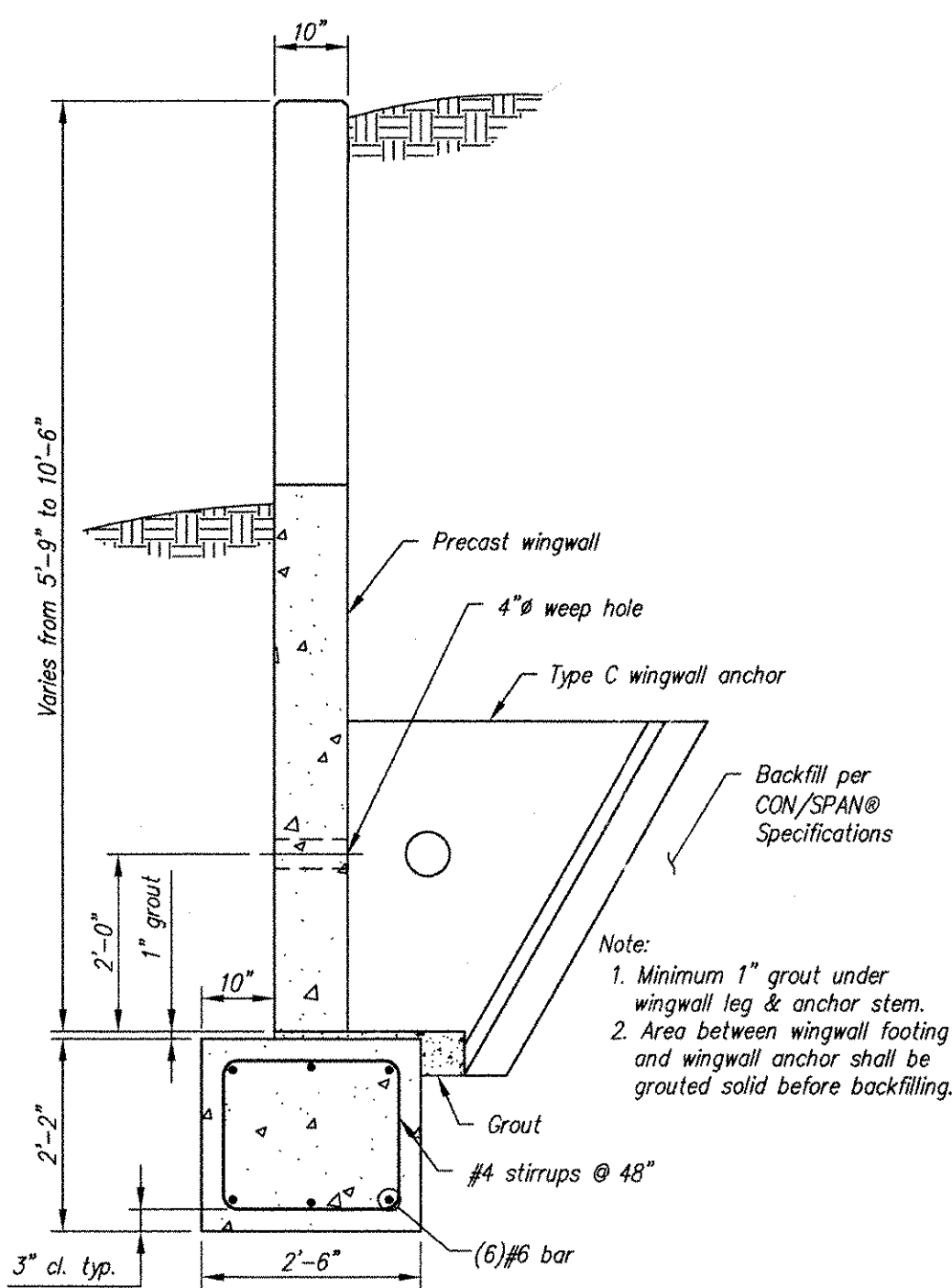
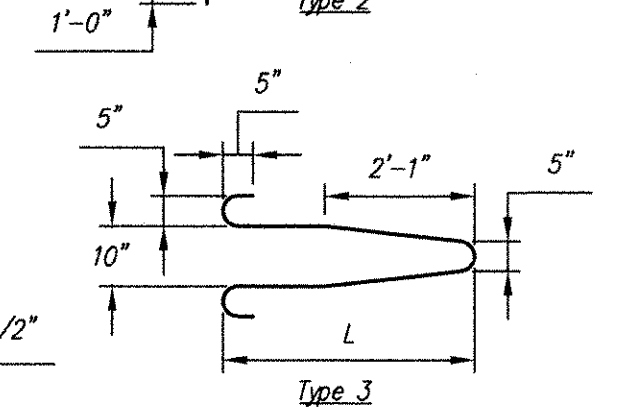
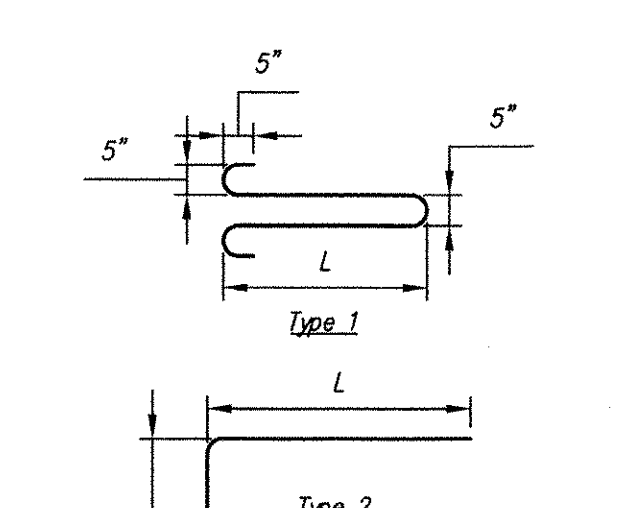
DETAIL 7
1, 2 of 2



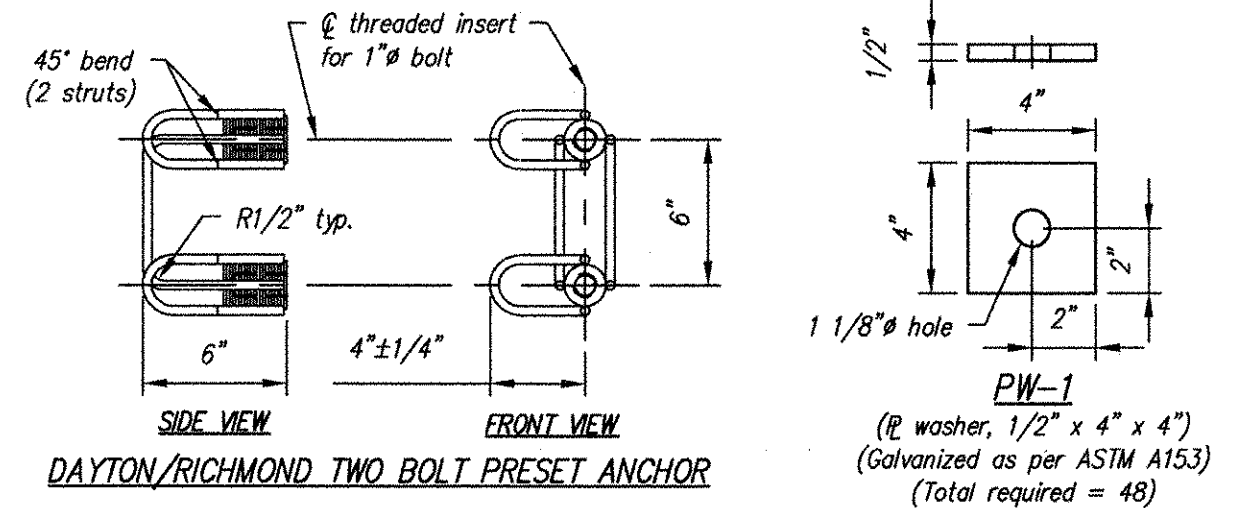
DETAIL 8
1, 2 of 2

MARK	QTY	SIZE	L	TYPE	LENGTH
b ₁	1	#5	3'-10"	1	
b ₂	1	#5	4'-6"	3	
b ₃	1	#5	5'-2"	1	
b ₄	2	#5	3'-8"	2	
b ₅	4	#5	Str.	3'-2"	
b ₆	4	#5	Str.	4'-2"	
b ₇	7	#5	Str.	2'-2"	

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

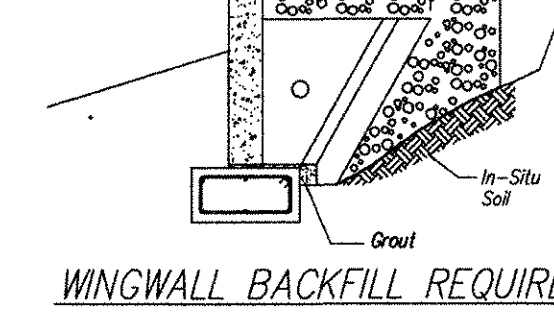


TYPICAL WINGWALL SECTION



DAYTON/RICHMOND TWO BOLT PRESET ANCHOR

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



WINGWALL BACKFILL REQUIREMENTS

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.

William D. Johnson
 11-30-06

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.



RECEIVED
 DEC 05 2006
 RESUBMIT APPROVED AS NOTED
 BY Opw DATE 12/12/06

Rev.	Date	DESCRIPTION	By
5			
4			
3			
2			
1	11/21/06	Called out 4" weep holes in Elevation D-D & E-E; WW1 revised to be 20' in piece schedule	MS

This drawing is based upon information provided from the following documents and/or sources:
 Engineer: VAOT
 Project No: ST CULV (4)
 Drawings: PROPOSED IMPROVEMENT BRIDGE PROJECT - VT RTE 8, RURAL MAJOR COLLECTOR
 Sheets 1 through 39 of 39 sheets
 Readsboro AC STP ST CULV (4) - Special Provisions
 Supplemental Specifications - Schedule of Prices
 Other Sources:



STATE AGENCY
 VAOT
 Drawn by M SCOTT
 Checked by TK/KJC
 Date 10/02/2006
 Date 10/03/2006

PIKE INDUSTRIES
 VT RTE 8, RURAL MAJOR COLLECTOR
 READSBORO, VT
 BOX CULVERT WINGWALL DETAILS - BRIDGE NO. 02
 C18331-L01-3
 Drawing No. 1
 Quantity: 1 Project No: AC STP ST CULV (4) SHEET 3 OF 3