

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION



KENDUSKEAG
PENOBSCOT COUNTY
VILLAGE BRIDGE
OVER
KENDUSKEAG STREAM
STETSON ROAD
FEDERAL AID PROJECT NO. BR-1757(600)X
PROJECT LENGTH 0.047 mi.
BRIDGE REPLACEMENT
BRIDGE NO. 2975

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Abutment No. 1 Reinforcement	14 & 15
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UTILITIES

Bangor Hydro-Electric Company
Mid-Maine Telecom
Time Warner Cable

MAINTENANCE OF TRAFFIC

The bridge will be closed to traffic during construction. Traffic will be maintained on Mudgett Road, Higgins Road, Route 15 and Stetson Road.

SPECIFICATIONS

Design: Load and Resistance Factor Design per AASHTO LRFD Bridge Design Specifications, Fifth Edition.

DESIGN LOADING

Live Load HL - 93 Modified

TRAFFIC DATA

Current (2010) AADT	2890
Future (2030) AADT	3470
DHV - % of AADT	11
Design Hour Volume	382
Heavy Trucks (% of AADT)	14
Heavy Trucks (% of DHV)	6
Directional Distribution (% of DHV)	60
18 kip Equivalent P 2.0	368
18 kip Equivalent P 2.5	351
Design Speed (mph)	35

HYDROLOGIC DATA

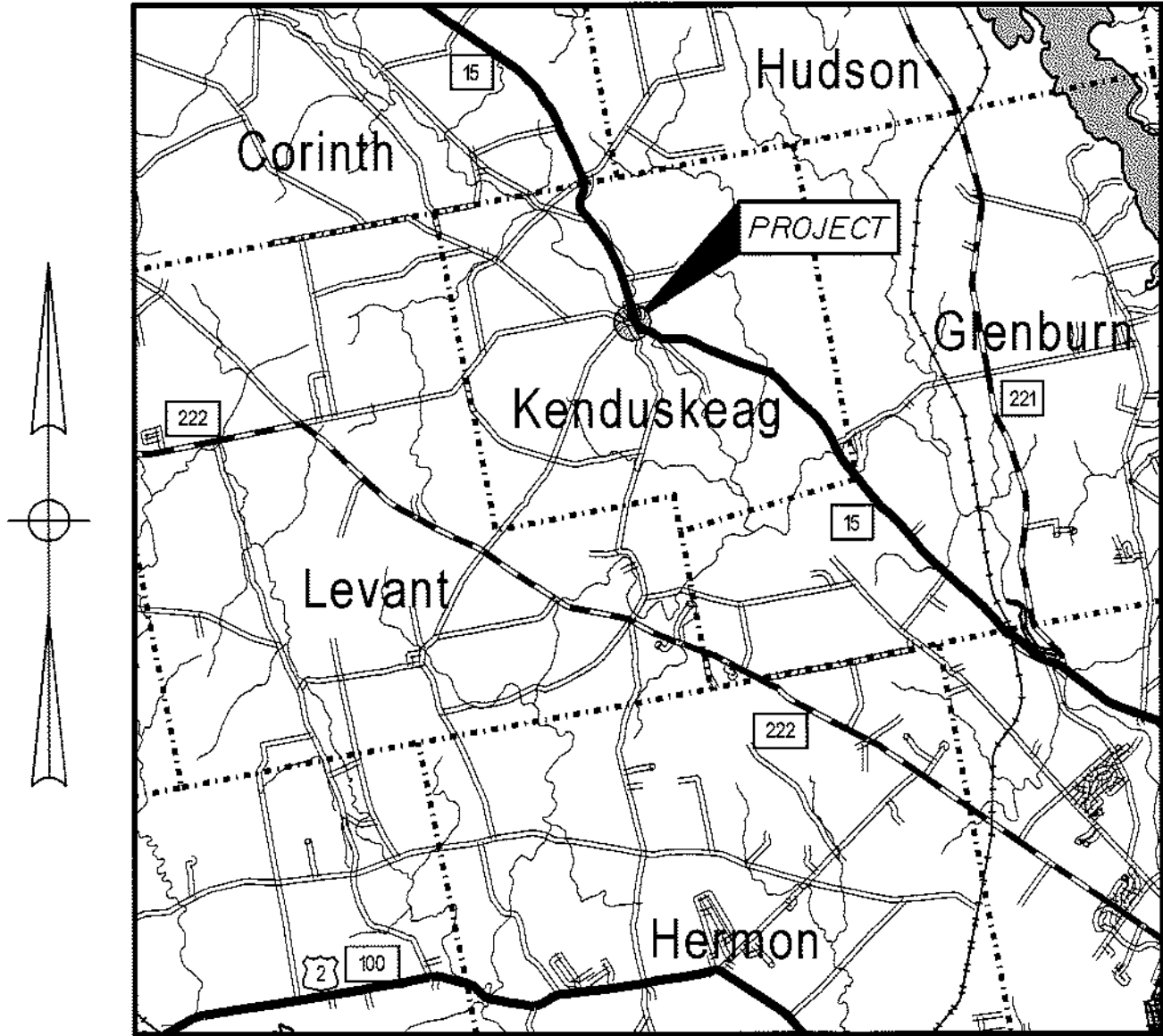
Drainage Area	121.2 sq mi
Design Discharge (Q50)	6680 cfs
Check Discharge (Q100)	7590 cfs
Headwater Elevation (Q50)	120.32 ft
Headwater Elevation (Q100)	121.05 ft
Discharge Velocity (Q50)	6.38 fps
Discharge Velocity (Q100)	6.79 fps
Headwater Elevation (Q1.1)	114.91 ft
Discharge Velocity (Q1.1)	2.83 fps
Headwater Elevation (Q25)	119.55 ft

MATERIALS

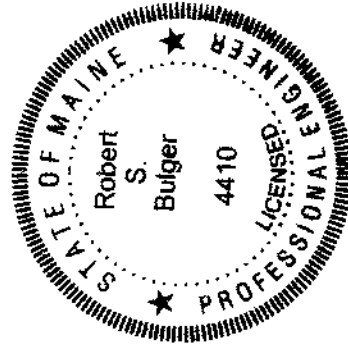
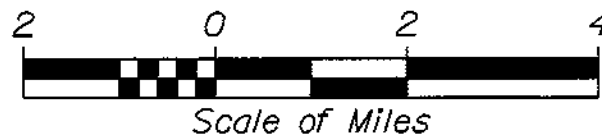
Concrete:	
Barriers, Curbs, Sidewalks & Transition Barriers	Class "LP"
Seals	Class "S"
All Other	Class "A"
Reinforcing Steel	ASTM A 615/A 615M, Grade 60
Structural Steel:	
All Material (except as noted)	ASTM A 709, Grade 50W (unpainted)
High Strength Bolts	ASTM A 325, Type 3

BASIC DESIGN STRESSES

Concrete	$f'c = 4,350$ psi
Reinforcing Steel	$f_y = 60,000$ psi
Structural Steel:	
ASTM A 709, Grade 50W	$F_y = 50,000$ psi
ASTM A 325	$F_u = 120,000$ psi



LOCATION MAP



Robert S. Bulger
SIGNATURE
4410
P.E. NUMBER
March 9, 2011
DATE

PROJECT INFORMATION	
PROGRAM	BRIDGE
PROJECT MANAGER	S. BODGE
DESIGNER	R. BULGER
CONSULTANT	
PROJECT RESIDENT	
CONTRACTOR	
PROJECT COMPLETION DATE	

KENDUSKEAG
VILLAGE BRIDGE
TITLE SHEET

SHEET NUMBER

1

OF 28

STATE OF MAINE DEPARTMENT OF TRANSPORTATION	
APPROVED	DATE
COMMISSIONER: [Signature]	3/11/11
CHIEF ENGINEER: [Signature]	3/11/11

Filename: \\00\BRIDGE\WSTA\001_Title.dgn
Division: BRIDGE
Username: david.show
Date: 3/9/2011

BR-1757(600)X PIN 17576.00

[illegible]

GENERAL CONSTRUCTION NOTES

1. During construction, the road will be closed to traffic for a time period specified in the Special Provisions.

2. For easements, construction limits and right of way lines, refer to Right of Way Map.

3. The clearing limits as shown on the plans are approximate. The exact limits will be established in the field by the Resident. Payment for clearing will be considered incidental to Contract items.

4. All utility facilities shall be adjusted by the respective utilities unless otherwise noted.

5. Do not excavate for Aggregate Subbase Course where existing material is suitable as determined by the Resident.

6. In areas where the Resident directs the Contractor not to excavate to the subgrade line shown on the plans, payment for removing existing pavement, grubbing, shaping, ditching, and compacting the existing subbase and layers of new subbase 6 inches or less thick will be made under appropriate equipment rental items.

7. All embankment material, except as otherwise shown, placed below E.L. 115, shall be Granular Borrow meeting the requirements of Subsection 703.19, Material for Underwater Backfill.

8. Place riprap as shown on General Plan Sheet.

9. Place loam 2 inches deep on all new or reconstructed sideslopes or as directed by the Resident.

10. Erosion Control Mix may be substituted in those areas normally receiving loam and seed as directed by the Resident. Placement shall be in accordance with Standard Specifications Section 619, Mulch. Payment will be made under Item No. 619.1401, Erosion Control Mix.

II. Place a 24-in. wide strip of Temporary Erosion Control Blanket on the sideslopes along the top of the riprap and behind the wingwalls. Payment will be incidental to Pay Item No. 656.75, Temporary Soil Erosion and Water Pollution Control.

12. An NCHRP350 compliant guardrail end treatment shall be installed concurrently with the placement of each section of beam guardrail.

13. Extended-use Erosion Control Blanket, seeded gutters, riprap downslopes, and other gutters lined with Stone Ditch Protection shall be constructed after paving and shoulder work is completed, where it is apparent that runoff will cause continual erosion. Payment will be made under the appropriate Contract items.

14. Protective Coating for Concrete Surfaces shall be applied to the following areas:

*All exposed surfaces of concrete curbs and sidewalks,
Fascias down to the drip notch,
All exposed surfaces of Concrete Transition Barriers,
Top of abutment backwall at Abutment No. 1 and to one foot below the
top of backwall on the back side.
Top of abutment wingwalls and to one foot below the top of wingwalls
on each face.*

15. Project information referred to below may be accessed at the following MaineDOT web address: <http://www.maine.gov/mdot/comprehensive-list-projects/project-information.php>.

16. The existing bridge plans may be accessed at the MaineDOT web address. The plans are reproductions of the original drawings as prepared for the construction of the bridge. It is very unlikely that the plans will show any construction field changes or any alterations which may have been made to the bridge during its life span.

17. The hydrologic report of the bridge site may be accessed at the MaineDOT web address. The hydrologic report is based on MaineDOT's interpretation of the information obtained for the subject site. No assurance is given that the information or the conclusions of the report will be representative of actual conditions at the time of construction.

18. The project geotechnical report titled: *Geotechnical Design Report for the Replacement of Village Bridge over Kenduskeag Stream, Kenduskeag, ME, Soil Report No. 2010-30, November 3, 2010* may be accessed at the MaineDOT web address.

19. Geotechnical information furnished or referred to in this plan set is for the use of the Bidders and the Contractor. No assurance is given that the information or interpretations will be representative of actual subsurface conditions at the construction site. MaineDOT will not be responsible for the Bidders' or Contractor's interpretations of, or conclusions drawn from, the geotechnical information. The boring logs contained in the plan set present factual and interpretive subsurface information collected at discrete locations. Data provided may not be representative of the subsurface conditions between the boring locations.

20. Quantities included for pay items measured and paid for by Lump Sum are estimated quantities and are provided by MaineDOT for informational purposes only. Lump Sum pay items will be paid for at the Contract Bid amount, with no addition or reduction in payment to the Contractor if the actual final quantities are different from the MaineDOT provided estimated quantities, except as follows:

a. If a Lump Sum pay item is eliminated, the requirements of Standard Specifications Section 109.2, Elimination of Items, will take precedence.

b. If other Contract Documents specifically allow a change in payment for a Lump Sum pay item, those requirements will be followed.

c. If a design change results in changes to estimated quantities for Lump Sum pay items, price adjustments will be made in accordance with Standard Specifications Section 109.7, Equitable Adjustments to Compensation.

21. The Contractor shall submit a Bridge Demolition Plan to the Resident at least 10 business days prior to the start of demolition work. The plan shall outline the methods and equipment to be used to remove and dispose of all materials included in the existing bridge. No work related to the removal of the bridge shall be undertaken by the Contractor until MaineDOT has reviewed the Bridge Demolition Plan for appropriateness and completeness. Payment for all work necessary for developing, submitting and finalizing the Demolition Plan will be considered incidental to the bridge removal pay item.

22. The existing bridge shall be removed by and become the property of the Contractor. The steel portions of the existing bridge are coated with a lead based paint system. The Contractor is responsible for the containment, proper management and disposal of all lead-contaminated hazardous waste generated by the process of demolishing the bridge. The Contractor is responsible for implementing appropriate OSHA mandated personal protection standards related to this process. Once the existing bridge is removed, the Contractor is solely responsible for the care, custody and control of the components of the existing bridge and any hazardous waste generated as a result of the storage, recycling or disposal of the bridge components, including lead-coated steel. The Contractor shall recycle or reuse the steel in accordance with the Maine Department of Environmental Protection's "Maine Hazardous Waste Management Regulations," Chapter 850. A copy of this regulation is available at MaineDOT's offices on Child Street in Augusta. Payment for all labor, materials, equipment and other costs required to remove and dispose of the existing bridge will be considered incidental to the bridge removal pay item.

23. Guardrail posts shall have a modified length of 7'-0" and an embedment of 4'-8".

24. The Contractor shall use Seeding Method No. 1 exclusively on the Northeasterly quadrant.

25. The Contractor shall remove and reset the dry laid granite wall in the Southeasterly quadrant along the river and the wall labeled "wide landscape timber" behind it as directed by the Resident. Payment for all work removing and resetting the granite wall and the back "timber wall shall be considered incidental to Pay Item No. 206.082, Structural Earth Excavation - Major Structures.

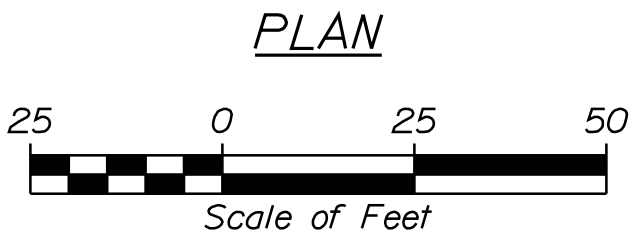
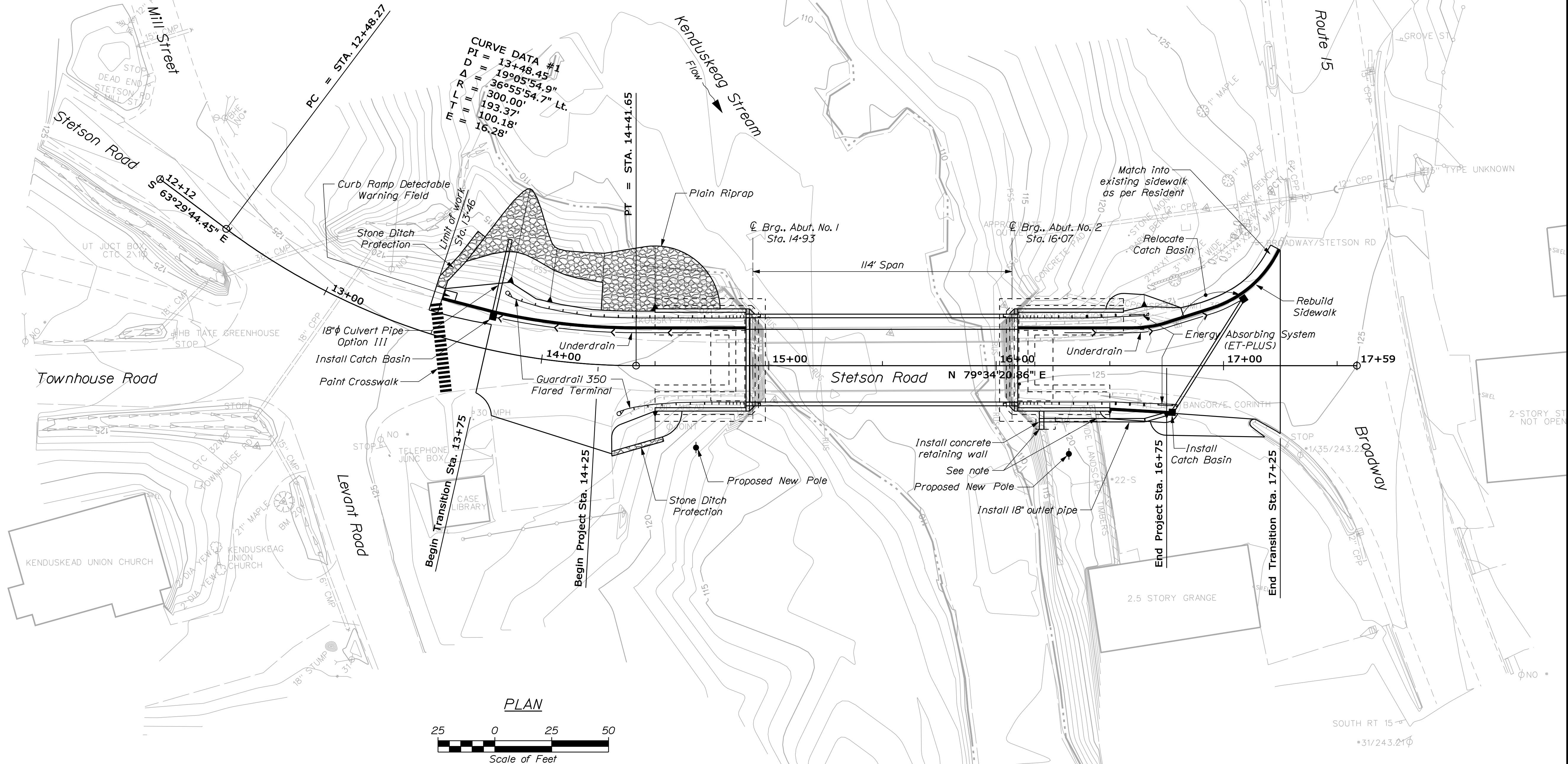
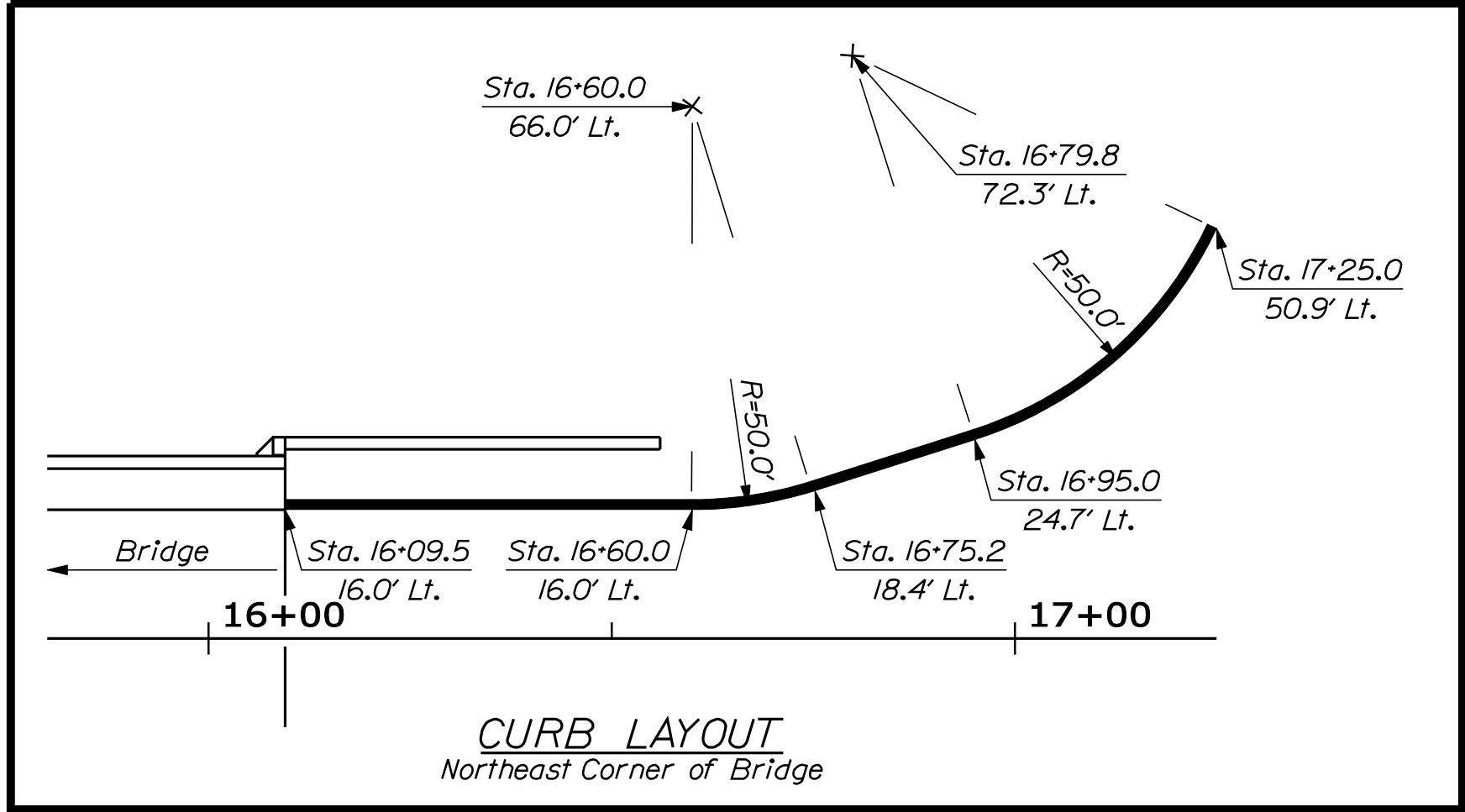
OF 28	SHEET NUMBER	2	VILLAGE BRIDGE				PROJ. MANAGER		S. BOODE	BY	DATE	STATE OF MAINE DEPARTMENT OF TRANSPORTATION BR-1757(600)X PIN 17576.00 BRIDGE NO. 2875 BRIDGE PLANS
			KENDUSKEAG STREAM				DESIGN-DETAILED	R. Bulger	D. Shaw	MPR & DWS	JUNE 2010	
			KENDUSKEAG				CHECKED-REVIEWED	M. Wight			SIGNATURE	
			PENOBSCOT COUNTY				DESIGN2-DETAILED2					
							DESIGN3-DETAILED3				P.E. NUMBER	
			ESTIMATED QUANTITIES and				REVISIONS 1					
			GENERAL CONSTRUCTION NOTES				REVISIONS 2					
							REVISIONS 3					
							REVISIONS 4					
							FIELD CHANGES				DATE	

Date: 3/10/2011

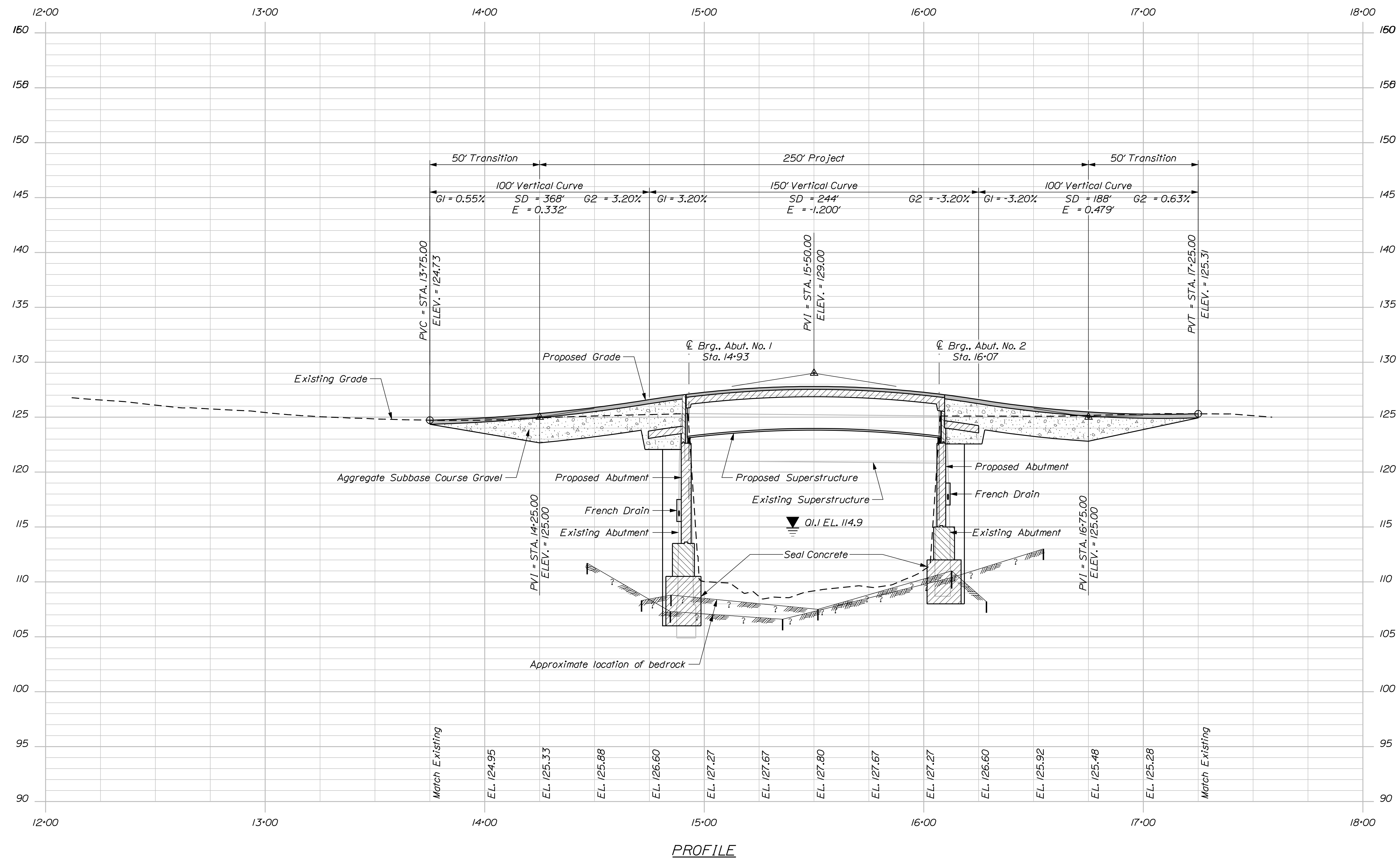
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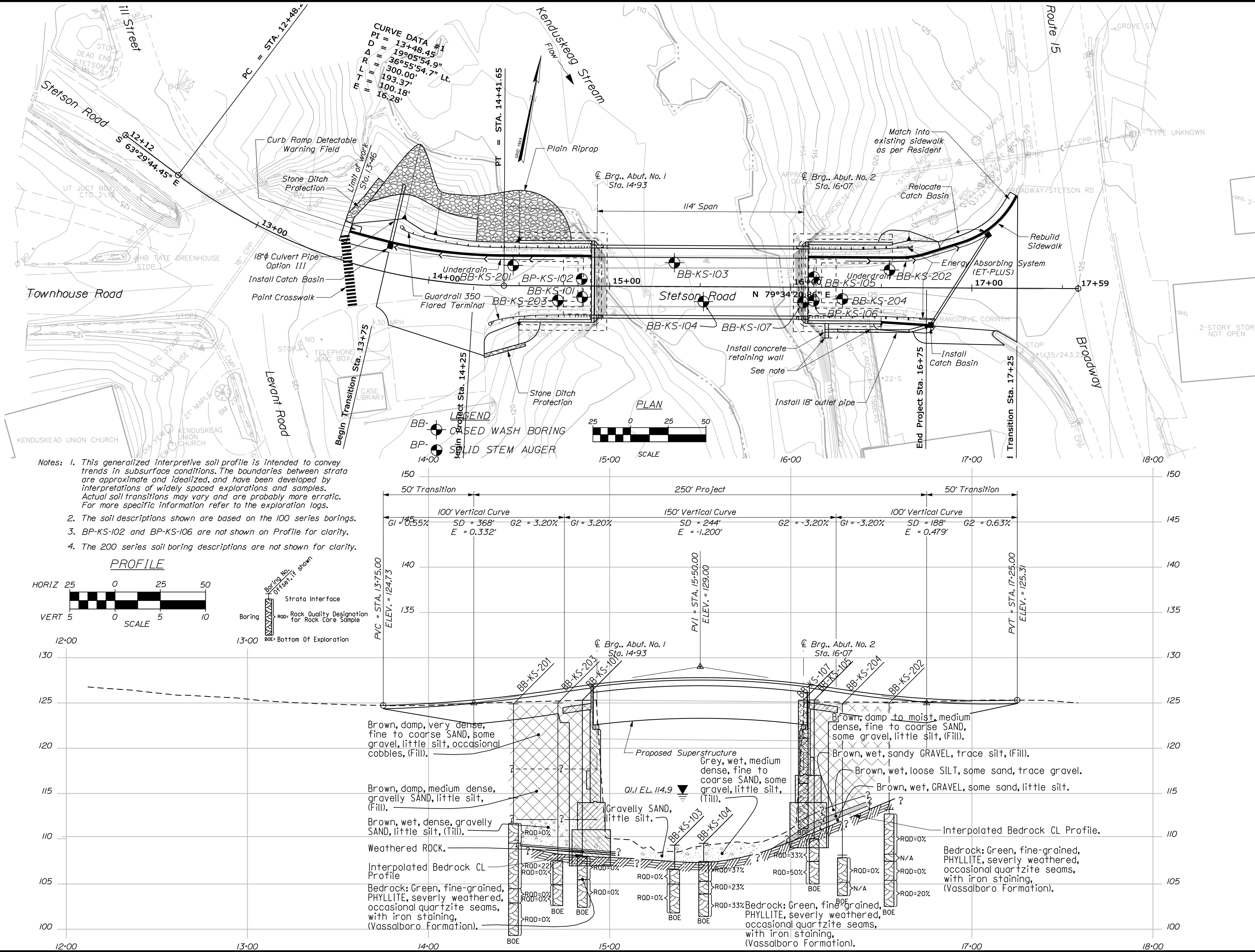
Division: BRIDGE

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STATE OF MAINE		DEPARTMENT OF TRANSPORTATION	
BR-1757(600)X		PIN 17576.00	
BRIDGE NO. 2975		BRIDGE PLANS	
VILLAGE BRIDGE		KENDUSKEAG STREAM	
KENDUSKEAG		PENOBSCOT COUNTY	
GENERAL PLAN		SHEET NUMBER	
3		OF 28	
PROJ. MANAGER	S. BOODE	BY	D. SHAW
DESIGN-DETAILED	R. BULGER	CHECKED-REVIEWED	M. WIGHT
DESIGNS-DETAILED		DESIGNS-DETAILED	
REVISIONS 1		REVISIONS 2	
REVISIONS 3		REVISIONS 4	
FIELD CHANGES		DATE	
DATE	JUNE 2010	SIGNATURE	
DATE		P.E. NUMBER	





Maine Department of Transportation				Project: Village Bridge #2975 over Kenduskeag Stream				Boring No.: BP-KS-102																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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B = Split Spoon Sample				S _u = In situ Field Vane Shear Strength (psf)				W _c = water content, percent																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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V = In situ Vane Shear Test				W _u = weight of solids, water				C = Grain Size Analysis																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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Maine Department of Transportation						Project: Village Bridge #2975 over Kenduskeag Stream		Boring No.: BB-KS-101				
Soil/Block Exploration Log						US CUSTOMER UNITS						
Driller: MaingDOT						Elevation (ft.): 125.3		Auger ID/DB: 4.5" SSA				
Operator: B. Wilder/G. Lidstone						Status: NAVD 88		Sampler: Standard Split Spoon				
Logged By: M. Moraw						Rig Type: CME 45C		Hammer Wt./Fall: 140W/30"				
Date Start/Finish: 3/21/05-3/21/05						Drilling Method: Cased Wash Boring		Core Barrels: NW				
Boring Location: 14+84.9, 8.3 Rt.						Casing ID/DB: NW		Water Level*: 12.5' bgs				
Definitions:						Definitions:		Definitions:				
B = Split Spoon Sample						S _u = In situ Field Vane Shear Strength (psf)		W _u = water content, percent				
M = Unsuccessful Split Spoon Sample attempt						M = Unsuccessful Split Spoon Sample attempt		L _u = Liquid Limit				
L = Thin Wall Tube Sample						L = Thin Wall Tube Sample		P _u = Plasticity Index				
R = Rock Core Sample						R = Rock Core Sample		P _u = Plasticity Index				
V = In situ Vane Shear Test						W _u = weight of solids, water		S _u (avg) = Lab Vane Shear Strength (psf)				
SSA = Solid Stem Auger						SSA = Solid Stem Auger		W _u = weight of solids, water				
Sample Information						Visual Description and Remarks						
Depth (ft.)	Sample No.	Pen./Rec. (in)	Sample Depth (ft.)	Blows / 6 in. (in)	Blows / 6 in. (in)	Blows / 6 in. (in)	Blows / 6 in. (in)	Blows / 6 in. (in)	Blows / 6 in. (in)	Blows / 6 in. (in)	Blows / 6 in. (in)	Blows / 6 in. (in)

Maine Department of Transportation				Project: Village Bridge #2975 over Kenduskeag Stream				Boring No.: BB-KS-103					
Soil/Block Exploration Log				Location: Stetson Road, Kenduskeag, Maine				P/N: 17576.00					
US CUSTOMER UNITS													
Driller: MaingDOT		Elevation (ft.): 109.3		Auger ID/DB: 4.5" SSA									
Operator: B. Wilder/G. Lidstone		Datum: NAVD 88		Sampler: Standard Split Spoon									
Logged By: M. Moraw		Rig Type: CME 45C		Hammer Wt./Fall: 140W/30"									
Date Start/Finish: 3/22/05-3/22/05		Drilling Method: Cased Wash Boring		Core Barrels: NW									
Boring Location: 15+35.7, 13.2 Lt.		Casing ID/DB: NW		Water Level: None Observed									
Definitions:				Definitions:				Definitions:					
S = Split Spoon Sample				S _u = In situ Field Vane Shear Strength (psf)				M = water content, percent					
M = Unsuccessful Split Spoon Sample attempt				T _v = Pocket Torque Vane Strength (psf)				L _u = Liquid Limit					
L = Thin Wall Tube Sample				S _u = Unconfined Compressive Strength (psf)				P _u = Plastic Limit					
R = Rock Core Sample				S _u (avg) = Lab Vane Shear Strength (psf)				PI = Plasticity Index					
V = In situ Vane Shear Test				W _u = weight of solids, water				C = Grain Size Analysis					
SSA = Solid Stem Auger				W _u = weight of solids				C = Coarse Size Analysis					
Sample Information													
Depth (ft.)	Sample No.	Pen./Rec. (in)	Sample Depth (ft.)	Blows / 6 in. (in)	Blows / 6 in. (in)	Blows / 6 in. (in)	Blows / 6 in. (in)	Visual Description and Remarks				Laboratory Testing Results ASHTO and Unified Class	
0								30					
								43					
	R1	19.2/19.2	2.70 / 4.30	ROD = 0%		0300	06.60		Gravelly SAND, little silt in wash water. 0300 blows for 0.1".				
5													
	R2	38.4/38.4	4.30 / 7.50	ROD = 0%					Bedrock Green, fine-grained, PHYLITE, severely weathered, occasional quartzite lenses with iron staining, (Kashobas Formation). R1: Core Times (min/sec) 2.7-3.7 (8100) 3.1-4.3 (15100) 100% Recovery R2: Core Times (min/sec) 4.3-5.3 (16000) 5.3-6.3 (17500) 6.3-7.3 (17500) 7.3-7.5 (15000) 100% Recovery				2.70
10									Bottom of Exploration at 7.5 feet below ground surface.				7.50
15													
20													
Remarks:													
16.8' from middle of sidewalk to Ground. Sidewalk elevation taken from spot elevation from topo plans.													
Stratification lines represent approximate boundaries between soil types; transitions may be gradual.													Page 1 of 1
* Water level readings have been made at times and under conditions stated. Groundwater fluctuations may occur due to conditions other than those present at the time measurements were made.													Boring No.: BB-KS-103

Maine Department of Transportation				Project: Village Bridge #2975 over Kenduskeag Stream				Boring No.: BB-KS-104			
Soil/Block Exploration Log				Location: Stetson Road, Kenduskeag, Maine				P/N: 17576.00			
US CUSTOMER UNITS											
Driller:		MaingDOT		Elevation (ft.):		109.5		Auger ID/DB:		4.5" SSA	
Operator:		G. Lidstone/B. Hyland		Status:		NAVD 88		Sampler:		Standard Split Spoon	
Logged By:		B. Wilder		Rig Type:		CME 45C		Hammer Wt./Fall:		140W/30"	
Date Start/Finish:		3/23/05-3/23/05		Drilling Method:		Cased Wash Boring		Core Barrels:		NW	
Boring Location:		15+41.8, 8.3 Rt.		Casing ID/DB:		NW		Water Level:		At Ground Surface	
Definitions:				Definitions:				Definitions:			
S = Split Spoon Sample				S _u = In situ Field Vane Shear Strength (psf)				W _u = water content, percent			
M = Unsuccessful Split Spoon Sample attempt				T _v = Pocket Torque Vane Shear Strength (psf)				L _u = Liquid Limit			
L = Thin Wall Tube Sample				S _u = Unconfined Compressive Strength (psf)				P _u = Plasticity Index			
R = Rock Core Sample				S _u (avg) = Lab Vane Shear Strength (psf)				PE = Plasticity Index			
V = In situ Vane Shear Test				W _u = weight of 100% water				C = Grain Size Analysis			
SSA = Solid Stem Auger				W _u = weight of 100% water				C = Compression Test			
Sample Information											
Depth (ft.)	Sample No.	Pen./Rec. (in)	Sample Depth (ft.)	Blows / 6 in. (in)	Blows / 6 in. (in)	Blows / 6 in. (in)	Blows / 6 in. (in)	Visual Description and Remarks			Laboratory Testing Results / AASHTO and Unified Class
0											
5											
10	21/13	0.00 - 1.75		7 1/11/16/50(3")					Grey, wet, medium dense, fine to coarse SAND, some gravel (little silt, IT11).		CH1107 A-1-b, SM MC11.15
	R1	26.4 - 26.4	2.00 - 4.20	ROD = 31%					Back fragments, weathered rock at 1.75' bgs. -1.75		
									Backrock Green, fine-grained, MELLITE, severely weathered, occasional quartzite seams, with iron staining, (Vasoboro Formation).	-2.00	
	R2	16.8/ 16.8	4.20 - 5.60	ROD = 23%					R1: Core Times (min:sec) 2:0-5:0 (17:30) 3:0-4:0 (11:00)		
									2:0-4:0 (18:00) 100% Recovery		
	R3	30/30	5.60 - 8.10	ROD = 33%					R2: Core Times (min:sec) 4:0-5:0 (16:30) 5:2-5:6 (16:00) 100% Recovery		
									R3: Core Times (min:sec) 5:6-6:6 (18:00) 6:5-6:6 (11:00)		
									7:6-8:1 16:00 100% Recovery		
									Bottom of Exploration at 8.1 feet below ground surface.	-8.10	
10											
15											
20											
Remarks:											
16.0' from Bridge Deck to Ground; Bridge Deck 1.7' thick.											
Stratification lines represent approximate boundaries between soil types; transitions may be gradual.											
* Water level readings have been made at times and under conditions stated. Groundwater fluctuations may occur due to conditions other than those present at the time measurements were made.											
Boring No.: BB-KS-104										Page 1 of 1	

Maine Department of Transportation				Project: Village Bridge #2975 over Kenduskeag Stream				Boring No.: BB-KS-107			
Soil/Block Exploration Log				Location: Stearns Road, Kenduskeag, Maine				PIN: 17576.00			
US CUSTOMER UNITS											
Driller: MaingDOT		Elevation (ft.): 125.3		Auger ID/DB: N/A							
Operator: G. Lidstone/B. Hyland		Datum: NAVD 88		Sampler: N/A							
Logged By: G. Lidstone		Rig Type: CME 45C		Hammer Wt./Fall: N/A							
Date Start/Finish: 3/25/05-3/25/05		Drilling Method: Core thru Bridge Abut#2		Core Barrels: ND-2*							
Boring Location: 16+06.8, 8.5 Rt.		Casing ID/DB: N/A		Water Level*: N/A							
DEFINITIONS:				DEFINITIONS:							
S _u = Split Spoon Sample				S _u = In situ Field Vane Shear Strength (psf)							
M = Unsuccessful Split Spoon Sample attempt				T _u = Torque Transducer Shear Strength (psf)							
L = Thin Wall Tube Sample				N _u = Unconfined Compressive Strength (psf)							
R = Rock Core Sample				S _u (avg) = Lab Vane Shear Strength (psf)							
V = In situ Vane Shear Test				W _u = weight of solids, water							
SSA = Solid Stem Auger				W _u = weight of solids							

Maine Department of Transportation				Project: Village Bridge #2975 over Kenduskeag Stream				Boring No.: BB-KS-105			
Soil/Block Exploration Log				Location: Stearns Road, Kenduskeag, Maine				PIN: 17576.00			
US CUSTOMER UNITS											
Driller:		MaingDOT		Elevation (ft.):		125.3		Auger ID/DB:		4.5" SSA	
Operator:		G. Lidstone/B. Hyland		Status:		NAVD 88		Sampler:		Standard Split Spoon	
Logged By:		G. Lidstone		Rig Type:		CME 45C		Hammer Wt./Fall:		140W/30"	
Date Start/Finish:		3/28/05-3/28/05		Drilling Method:		Cased Wash Boring		Core Barrels:		NW	
Boring Location:		16+12.7, 5.6 L.T.		Casing ID/DB:		ND-2"		Water Level#:		12.0" bgs	
DEFINITIONS				DEFINITIONS				DEFINITIONS			
B = Plastic Free Sand Specie				L = Plastic Free Sand Specie				WC = water content, percent			
MB = Unconsolidated Split Spoon Specie attempt				T = Pocket Shear Strength (psf)				LL = Liquid Limit			
C = Consolidated Specie				C = Consolidated (Compressive Strength) (psi)				PL = Plastic Limit			
B = Rock Core Specie				K _{sat} = 1.0 kN/m² Shear Strength (psf)				FI = Plasticity Index			
W = In situ Water Shear Test				W = weight of water, number				G = Grain Size Analysis			
SSA = Solid Stem Auger				WB = weight of roots				C = Consolidation Test			
Soils Information											
Depth (ft.)	Sample No.	Pen./Blow C.U.T.	Soils Depth (ft.)	Blow C.U.T. (blows/ft.)	Blow C.U.T. (blows/ft.)	Pen./Blow C.U.T.	Soils Depth (ft.)	Blow C.U.T. (blows/ft.)	Pen./Blow C.U.T.	Soils Depth (ft.)	Blow C.U.T. (blows/ft.)
0	10	24/13	1.00 = 3.00	9/13/10/15	23	SSA	25.05				
	20	24/14	3.00 = 5.00	19/16/17/18	33		24.30				
	30	24/13	5.00 = 7.00	10/14/12/9	26						
	40	24/12	7.50 = 9.50	6/7/7/8	14						
5	50	24/9	10.00 = 12.00	5/7/8/13	15						
	60/AB	24/8	13.00 = 15.00	35/3/9/47	12						
	70	24/10	15.00 = 17.80	R00 = 33%	ND						
	80	24/10	17.80 = 20.30	R00 = 50%							
10	90	24/10	20.30 = 22.80								
	100	24/10	22.80 = 25.30								
	110	24/10	25.30 = 27.80								
	120	24/10	27.80 = 30.30								
15	130	24/10	30.30 = 32.80								
	140	24/10	32.80 = 35.30								
	150	24/10	35.30 = 37.80								
	160	24/10	37.80 = 40.30								
20	170	24/10	40.30 = 42.80								
	180	24/10	42.80 = 45.30								
	190	24/10	45.30 = 47.80								
	200	24/10	47.80 = 50.30								
25	210	24/10	50.30 = 52.80								
	220	24/10	52.80 = 55.30								
	230	24/10	55.30 = 57.80								
	240	24/10	57.80 = 60.30								
30	250	24/10	60.30 = 62.80								
	260	24/10	62.80 = 65.30								
	270	24/10	65.30 = 67.80								
	280	24/10	67.80 = 70.30								
35	290	24/10	70.30 = 72.80								
	300	24/10	72.80 = 75.30								
	310	24/10	75.30 = 77.80								
	320	24/10	77.80 = 80.30								
40	330	24/10	80.30 = 82.80								
	340	24/10	82.80 = 85.30								
	350	24/10	85.30 = 87.80								
	360	24/10	87.80 = 90.30								
45	370	24/10	90.30 = 92.80								
	380	24/10	92.80 = 95.30								
	390	24/10	95.30 = 97.80								
	400	24/10	97.80 = 100.30								
50	410	24/10	100.30 = 102.80								
	420	24/10	102.80 = 105.30								
	430	24/10	105.30 = 107.80								
	440	24/10	107.80 = 110.30								
55	450	24/10	110.30 = 112.80								
	460	24/10	112.80 = 115.30								
	470	24/10	115.30 = 117.80								
	480	24/10	117.80 = 120.30								
60	490	24/10	120.30 = 122.80								
	500	24/10	122.80 = 125.30								
	510	24/10	125.30 = 127.80								
	520	24/10	127.80 = 130.30								
65	530	24/10	130.30 = 132.80								
	540	24/10	132.80 = 135.30								
	550	24/10	135.30 = 137.80								
	560	24/10	137.80 = 140.30								
70	570	24/10	140.30 = 142.80								
	580	24/10	142.80 = 145.30								
	590	24/10	145.30 = 147.80								
	600	24/10	147.80 = 150.30								
75	610	24/10	150.30 = 152.80								
	620	24/10	152.80 = 155.30								
	630	24/10	155.30 = 157.80								
	640	24/10	157.80 = 160.30								
80	650	24/10	160.30 = 162.80								
	660	24/10	162.80 = 165.30								
	670	24/10	165.30 = 167.80								
	680	24/10	167.80 = 170.30								
85	690	24/10	170.30 = 172.80								
	700	24/10	172.80 = 175.30								
	710	24/10	175.30 = 177.80								
	720	24/10	177.80 = 180.30								
90	730	24/10	180.30 = 182.80								
	740	24/10	182.80 = 185.30								
	750	24/10	185.30 = 187.80								
	760	24/10	187.80 = 190.30								
95	770	24/10	190.30 = 192.80								
	780	24/10	192.80 = 195.30								
	790	24/10	195.30 = 197.80								
	800	24/10	197.80 = 200.30								
100	810	24/10	200.30 = 202.80								
	820	24/10	202.80 = 205.30								
	830	24/10	205.30 = 207.80								
	840	24/10	207.80 = 210.30								
105	850	24/10	210.30 = 212.80								
	860	24/10	212.80 = 215.30								
	870	24/10	215.30 = 217.80								
	880	24/10	217.80 = 220.30								
110	890	24/10	220.30 = 222.80								
	900	24/10	222.80 = 225.30								
	910	24/10	225.30 = 227.80								
	920	24/10	227.80 = 230.30								
115	930	24/10	230.30 = 232.80								
	940	24/10	232.80 = 235.30								
	950	24/10	235.30 = 237.80								
	960	24/10	237.80 = 240.30								
120	970	24/10	240.30 = 242.80								
	980	24/10	242.80 = 245.30								
	990	24/10	245.30 = 247.80								
	1000	24/10	247.80 = 250.30								
125	1010	24/10	250.30 = 252.80								
	1020	24/10	252.80 = 255.30								
	1030	24/10	255.30 = 257.80								
	1040	24/10	257.80 = 260.30								
130	1050	24/10	260.30 = 262.80								
	1060	24/10	262.80 = 265.30								
	1070	24/10	265.30 = 267.80								
	1080	24/10	267.80 = 270.30								
135	1090	24/10	270.30 = 272.80								
	1100	24/10	272.80 = 275.30								
	1110	24/10	275.30 = 277.80								
	1120	24/10	277.80 = 280.30								
140	1130	24/10	280.30 = 282.80								
	1140	24/10	282.80 = 285.30								
	1150	24/10	285.30 = 287.80								
	1160	24/10	287.80 = 290.30								
145	1170	24/10	290.30 = 292.80								
	1180	24/10	292.80 = 295.30								
	1190	24/10	295.30 = 297.80								
	1200	24/10	297.80 = 300.30								
150	1210	24/10	300.30 = 302.80								
	1220	24/10	302.80 = 305.30								
	1230	24/10	305.30 = 307.80								
	1240	24/10	307.80 = 310.30								
155	1250	24/10	310.30 = 312.80								
	1260	24/10	312.80 = 315.30								
	1270	24/10	315.30 = 317.80								
	1280	24/10	317.80 = 320.30								
160	1290	24/10	320.30 = 322.80								
	1300	24/10	322.80 = 325.30								
	1310	24/10	325.30 = 327.80								
	1320	24/10	327.80 = 330.30								
165	1330	24/10	330.30 = 332.80								
	1340	24/10	332.80 = 335.30								
	1350	24/10	335.30 = 337.80								
	1360	24/10	337.80 = 340.30								
170	1370	24/10	340.30 = 342.80								
	1380	24/10	342.80 = 345.30								
	1390	24/10	345.30 = 347.80								
	1400	24/10	347.80 = 350.30								
175	1410	24/10	350.30 = 352.80								
	1420	24/10	352.80 = 355.30								
	1430	24/10	355.30 = 357.80								
	1440	24/10	357.80 = 360.30								
180	1450	24/10	360.30 = 362.80								
	1460	24/10	362.80 = 365.30								
	1470	24/10	365.30 = 367.80								
	1480	24/10	3								

[illegible][illegible][illegible]

Maine Department of Transportation						Project Village Bridge #978 over Kenduskeeg Stream Location Stetson Road, Kenduskeeg, Maine		Boring No.: BB-KS-202
Soil/Rock Exploration Log US CUSTOMARY UNITS								PIN: 17576.00
Driller:	MainDOT	Elevation (ft.):	125.0	Auger ID(s):	5" SSA			
Operator:	Giguere/Giles/Daggett	Latitude:	NAD 83	Sampler:	Standard Split Spoon			
Logged By:	Ba Schonewald	Rig Type:	CME 45C	Hammer Wt./Fall:	140#/3'			
Date Start/Finish:	8/20/10 9:35-12:35	Drilling Method:	Cased Wash Boring	Core Barrel(s)	NQ-2"			
Boring Location:	1454.3, 9.7 LT.	Casing ID(s):	NW	Water Level Ft.	8.9 ft bgl.			
Hammer Efficiency Factor:	0.84	Hammer Type:	Automatic G Hydraulic C Rags & Clothed N					
Definitions		P = Rock Core Sample		S _w = In Situ Fresh Wet Shear Strength (psf)		Su _{wet} = Lab Wet Shear Strength (psf)		
N = Unconsolidated Split Spoon Sample Attempt		SSA = Split Soil Sampler		% = Percent Fresh Shear Strength (psf)		L = Loose Contact		
W = Wet Test Tube Sample		MS = Moisture Content		U = Uncoupled Cohesive Strength (psi)		C = Cementation		
U = Unconsolidated Thin Wall Tube Sample attempt		MW = Weight of H ₂ O, number		M _p = Plasticity Index		R _L = Plastic Limit		
V = In Situ Vane Shear Test		SP = Number of Spins		SP = SPT blow count corrected for energy		F = Fracture Index		
MC = Unconsolidated Thin Wall Tube Sample attempt		RC = Bulk or dry weight		NG = NGP - ungravelled correction factor		G = Grain Size Analysis		
MC = Unconsolidated Thin Wall Tube Sample attempt		RC = Bulk or dry weight		NG = NGP - ungravelled correction factor		G = Grain Size Analysis		

Sample Information

Depth (feet)	Sample No.	Pen./Recl. (in.)	Split Depth (ft.)	Blow c/s (in. Shearhead) or MDL Tst	Misconducted	Tag	Notes	Visual Description and Remarks	Laboratory Testing Results / AKSD and Unified Class
5	10	24/18	1.00 - 3.00	12/25/12/14	3	52	SSA	Payment.	-0.35
10	20	24/7	5.00 - 7.00	3/4/3/2	7	10		Brown, damp, loose, fine medium SAND, tip of spoon gravelly little silt, trace coarse sand, IFILL. Tip of spoon moist to wet.	
15	30/AB	24/11	10.00 - 12.00	13/17/18/24	35	49	AKSD	30/A 110.0-10.8 ft. Brown, wet, dense fine to medium SAND, trace to little silt, IFILL.	-22.00
20	R1	50.4/48	12.50 - 16.10	ROD = OK			NQ-2	30/B 110.8-12.0 ft. Brown, dense, gravelly fine to coarse SAND, little to some silt, Bottom 12" decomposed rock, IFILL.	-40.80
25	R2	9.6/9.6	16.10 - 17.20	ROD = OK				Top of Bedrock at Elev. 113.0 ft., 12.50	
30	R3	25.2/25.2	17.50 - 19.40	ROD = OK				Bedrock Grayish green, fine grained, hard, fresh to slightly weathered, calcareous micaceous thin lenticular, steeply dipping to vertical bedding. Very close, high angle, stepped and undulating, rough to smooth, fresh to decomposed, open breaks along bedding. Much of core matrix is angular gravel broken along bedding. (Vassalboro Formation)	
35	RA	34.8/32	19.50 - 22.50	ROD = 20%				R1 Core Times Initiated: 12.5-13.5 ft (#140) 13.5-14.5 ft (#140) 14.5-15.5 ft (#152) 15.5-16.5 ft (#160) 16.5-17.5 ft (#1=) 100% Recovery	-67.50
40								R2 Core Sample Same as R1. R3 Core Times Initiated: 17.5-18.5 ft (#1025) 18.5-19.5 ft (#1100) 19.5-19.6 ft (#1=) 100% Recovery	-77.50
45								R1&Bore same as R1, except fresh, more intact, before times initiated. 19.6-20.6 ft (#1=) 20.6-21.6 ft (#1000) 21.6-22.5 ft (#1620) 92% Recovery	-82.50
50								Bottom of Exploration of 22.50 feet below ground surface.	

Remarks:

Some Rock Core times were not logged where the symbol (1=) is shown.

Identification lines represent approximate boundaries between soil types; transitions may be gradual.

* Other level readings have been used at times and under conditions stated. Groundwater fluctuations may occur due to conditions other than those present at the time measurements were made.

Page 1 of 1

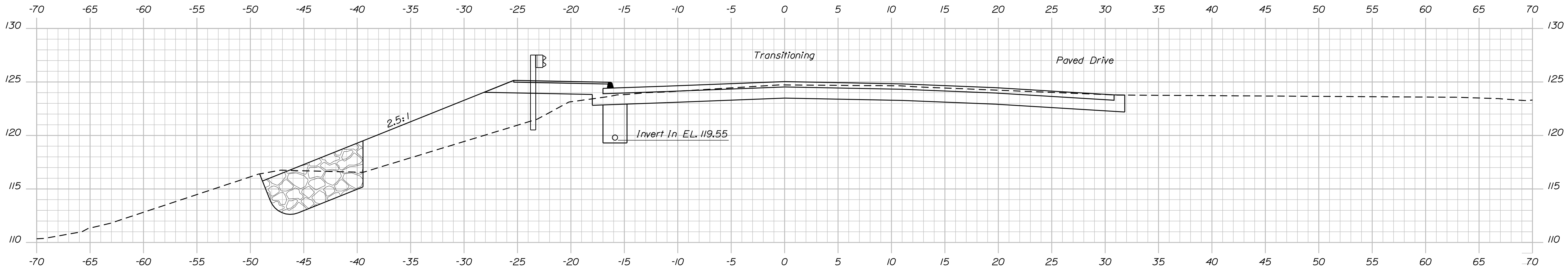
Boring No.: BB-KS-202

Date: 3/10/2011

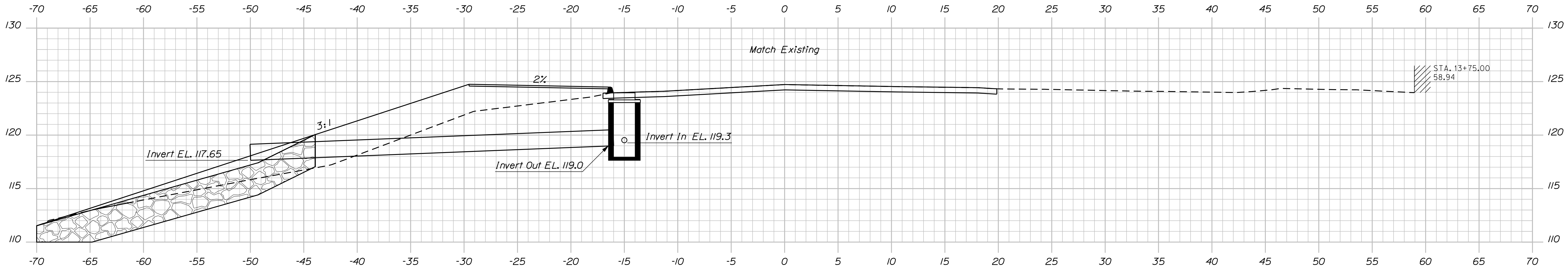
Username: david.shaw

Division: BRIDGE

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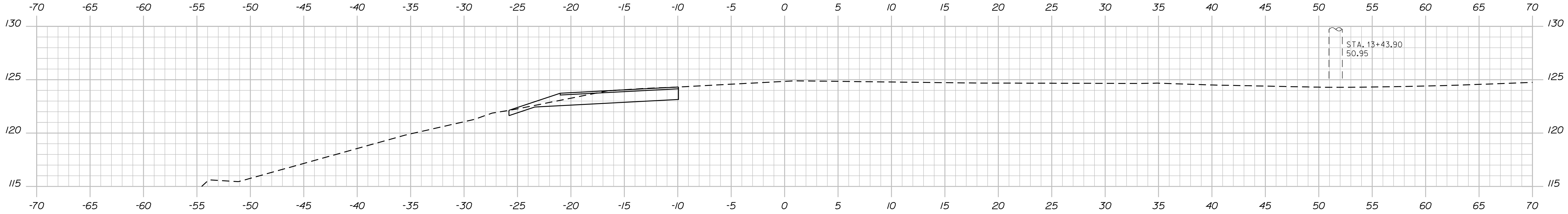


Sta. 13+80.1±, 25 Ft. Lt. to Sta. 14+20.4±, 21 Ft. Lt.
Install Guardrail 350 Flared Terminal



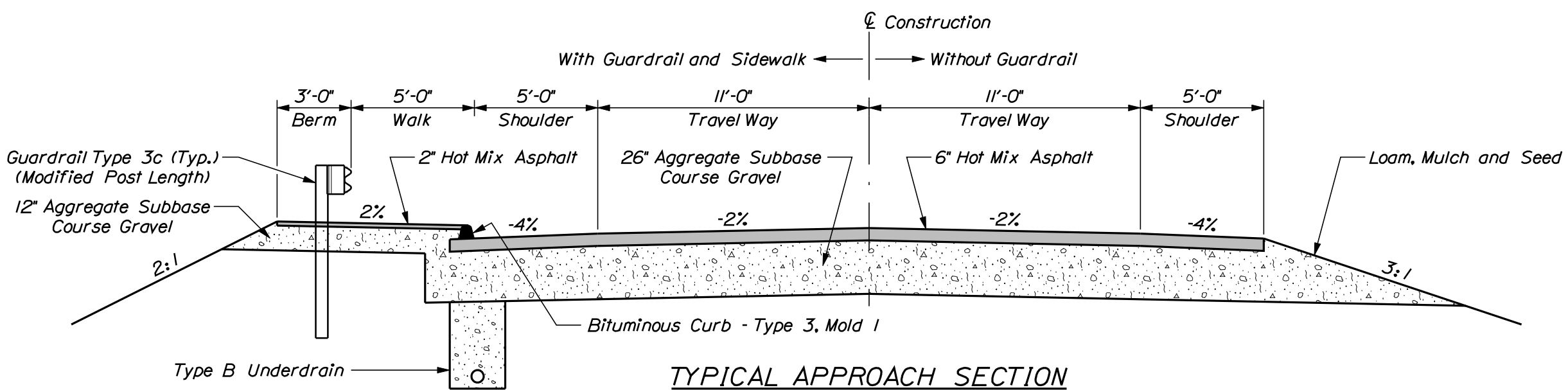
Sta. 13+50, 16.0 Ft. Lt. to Sta. 14+90, 16 Ft. Lt.
Install 135 L.F. of Type 3 Bituminous Curb

Sta. 13+75±, 14.5 Ft. Lt.±, Install F5-C Catch Basin No. 1
Catch Basin No. 1 to Sta. 13+75 49.3± Ft. Lt.
Install 34 L.F. of 18" Ø Option III Pipe
Catch Basin No. 1 to Sta. 14+69.5±
Install 90 L.F. of 6" Ø Type B Underdrain

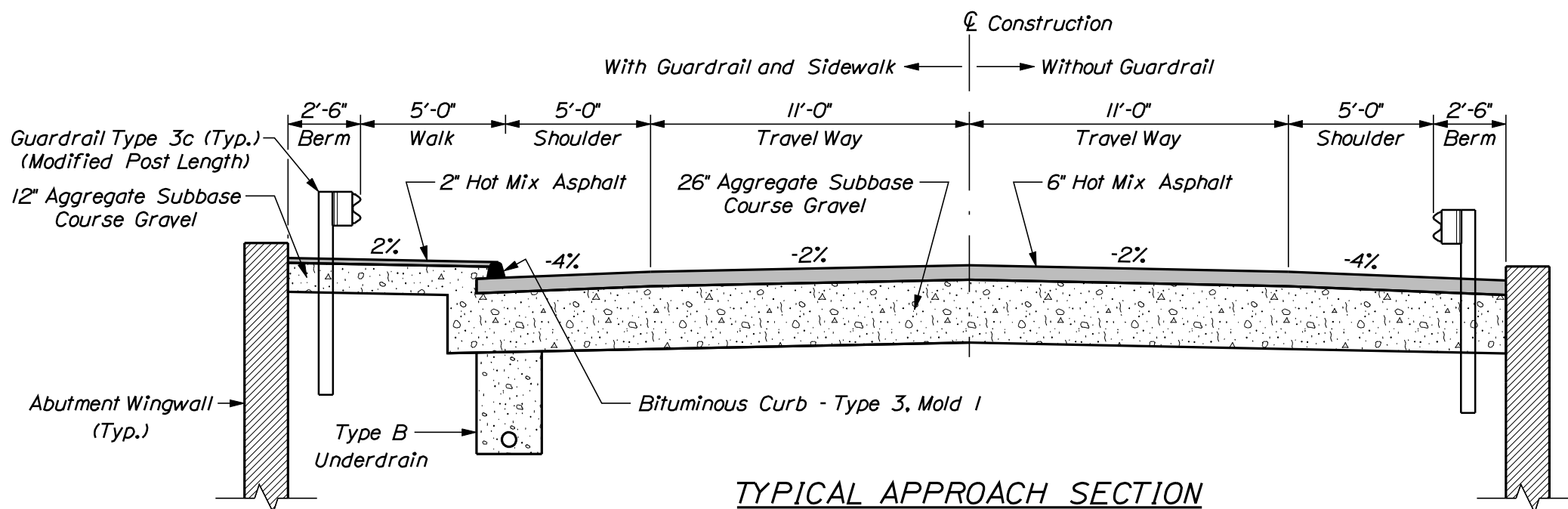


Sta. 13+48±, 21 Ft. Lt. to Sta. 13+63±, 48.5± Ft. Lt.,
Install 30 L.F., 4 Ft. wide of Stone Ditch Protection

Sta. 13+46± to Sta. 13+50,
Taper gravel shoulder into paved shoulder



TYPICAL APPROACH SECTION



TYPICAL APPROACH SECTION

Between abutment wingwalls

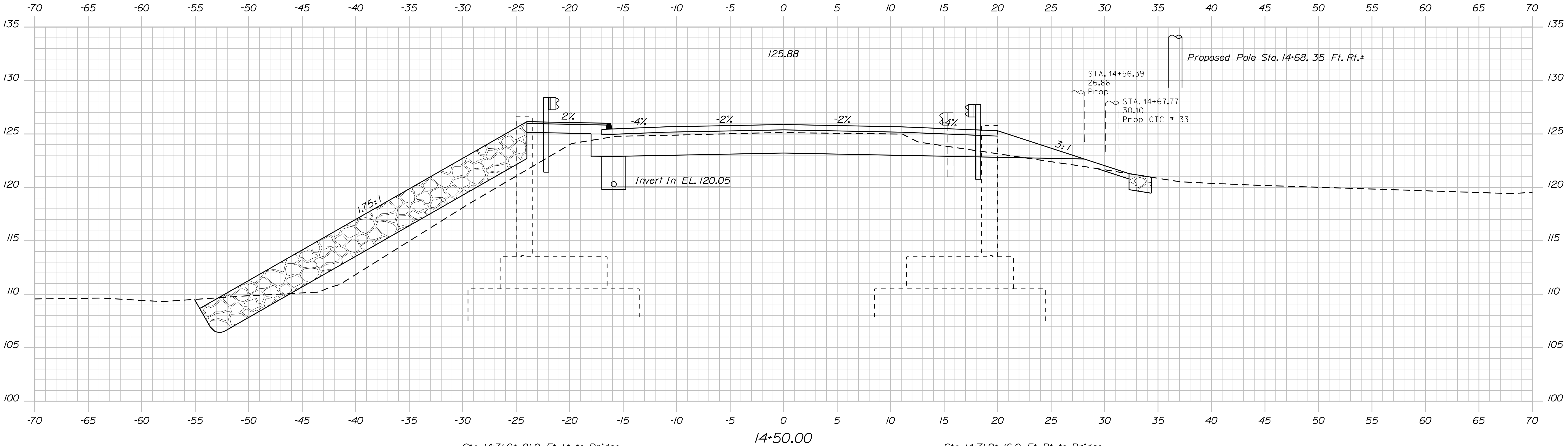
PROJ. MANAGER	DESIGN-DETAILED	CHECKED-REVIEWED	DESIGN-DETAILED	REVISIONS 1	REVISIONS 2	REVISIONS 3	REVISIONS 4	FIELD CHANGES
S. BOOGE	R. BULGER	M. WIGHT	M.P. & DMS					
BY	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE
D. SHAW	JUNE 2000							
SIGNATURE	P.E. NUMBER	DATE						

Date: 3/10/2011

Username: david.shaw

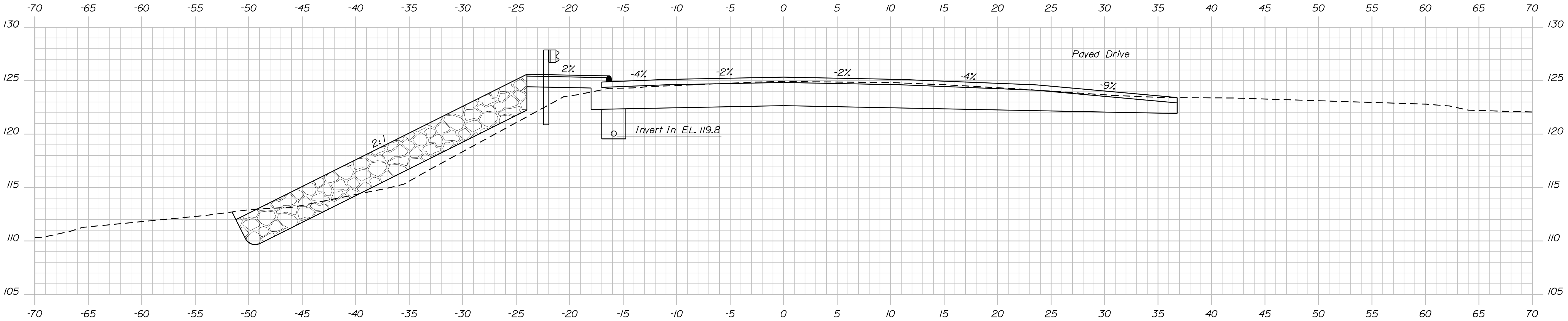
Division: BRIDGE

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Sta. 14+71.9±, 21.0 Ft. Lt. to Bridge
Install Bridge Transition Type I

Sta. 14+71.9±, 16.0 Ft. Rt. to Bridge
Install Bridge Transition Type I

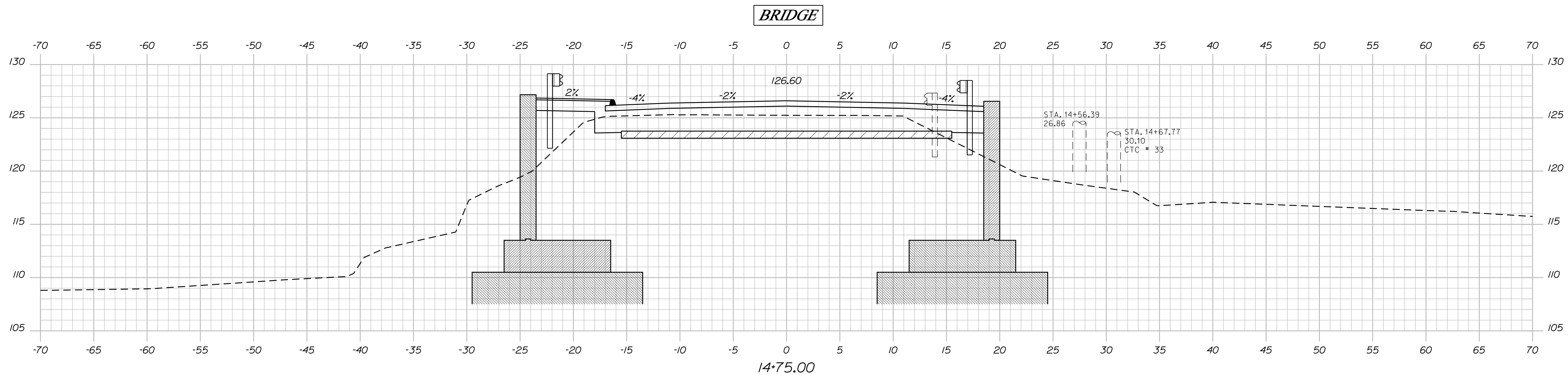
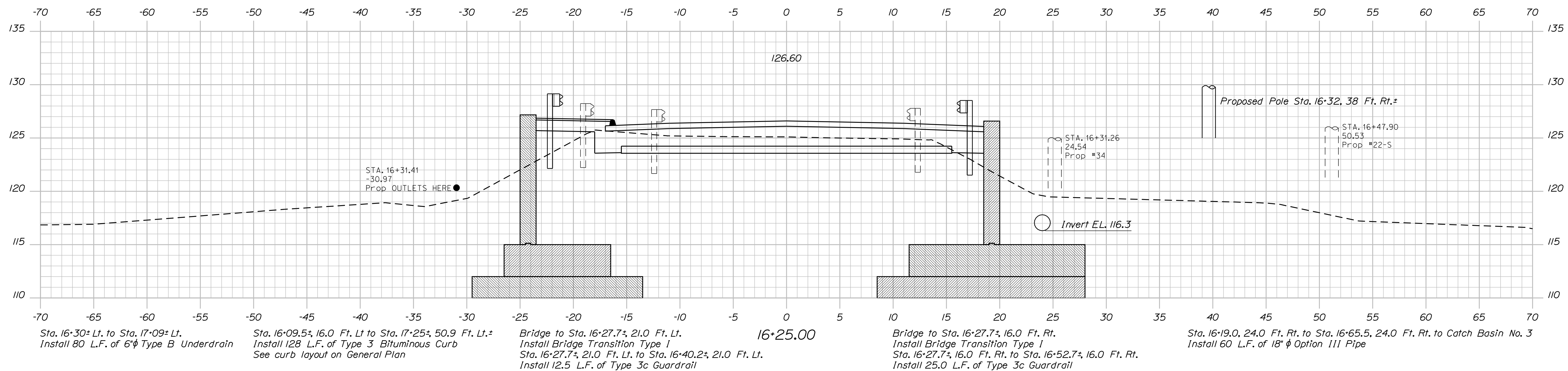
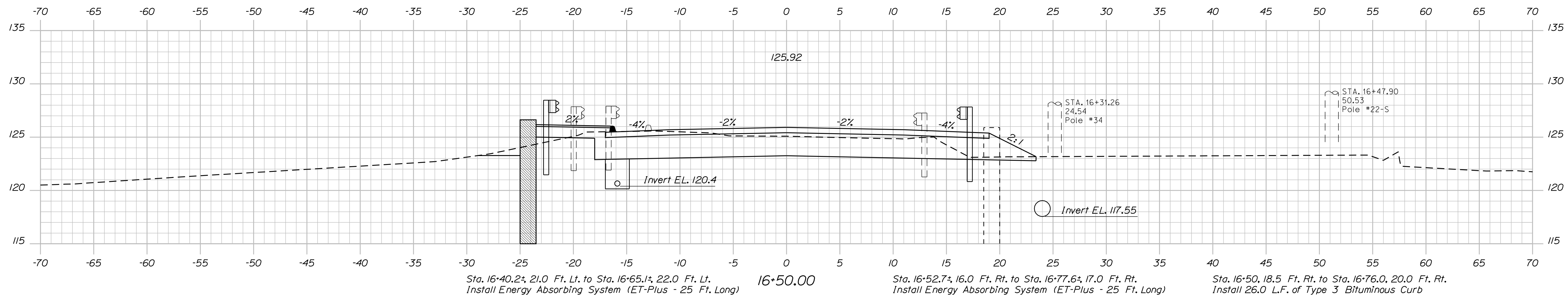


Sta. 14+20.4±, 21.0 Ft. Lt. to Sta. 14+71.9±, 21.0 Ft. Lt.
Install 50.0 L.F. of Type 3c Guardrail

Sta. 14+35.2±, 20.1 Ft. Rt. to Sta. 14+71.9±, 16.0 Ft. Rt.
Install Guardrail 350 Flared Terminal

Sta. 14+32.2±, 39.0 Ft. Rt.± to Sta. 14+53.5±, 32.3 Ft. Rt.±
Install 24 L.F., 2 Ft. wide of Stone Ditch Protection

SHEET NUMBER		VILLAGE BRIDGE KENDUSKEAG STREAM KENDUSKEAG PENOBSCOT COUNTY		PROJ. MANAGER		S. BOODE	BY	DATE	STATE OF MAINE DEPARTMENT OF TRANSPORTATION	
				DESIGN-DETAILED	R. Bulger	D. Shaw	JUNE 2010			
9 OF 28		CROSS SECTIONS		CHECKED-REVIEWED	M. Wight	MRP & DWS		SIGNATURE	BR-1757(600)X	
				DESIGN2-DETAILED2						
				DESIGN3-DETAILED3				P.E. NUMBER		
				REVISIONS 1						
				REVISIONS 2						
				REVISIONS 3				DATE	PIN 17576.00 BRIDGE NO. 2875 BRIDGE PLANS	
				REVISIONS 4						
				FIELD CHANGES						

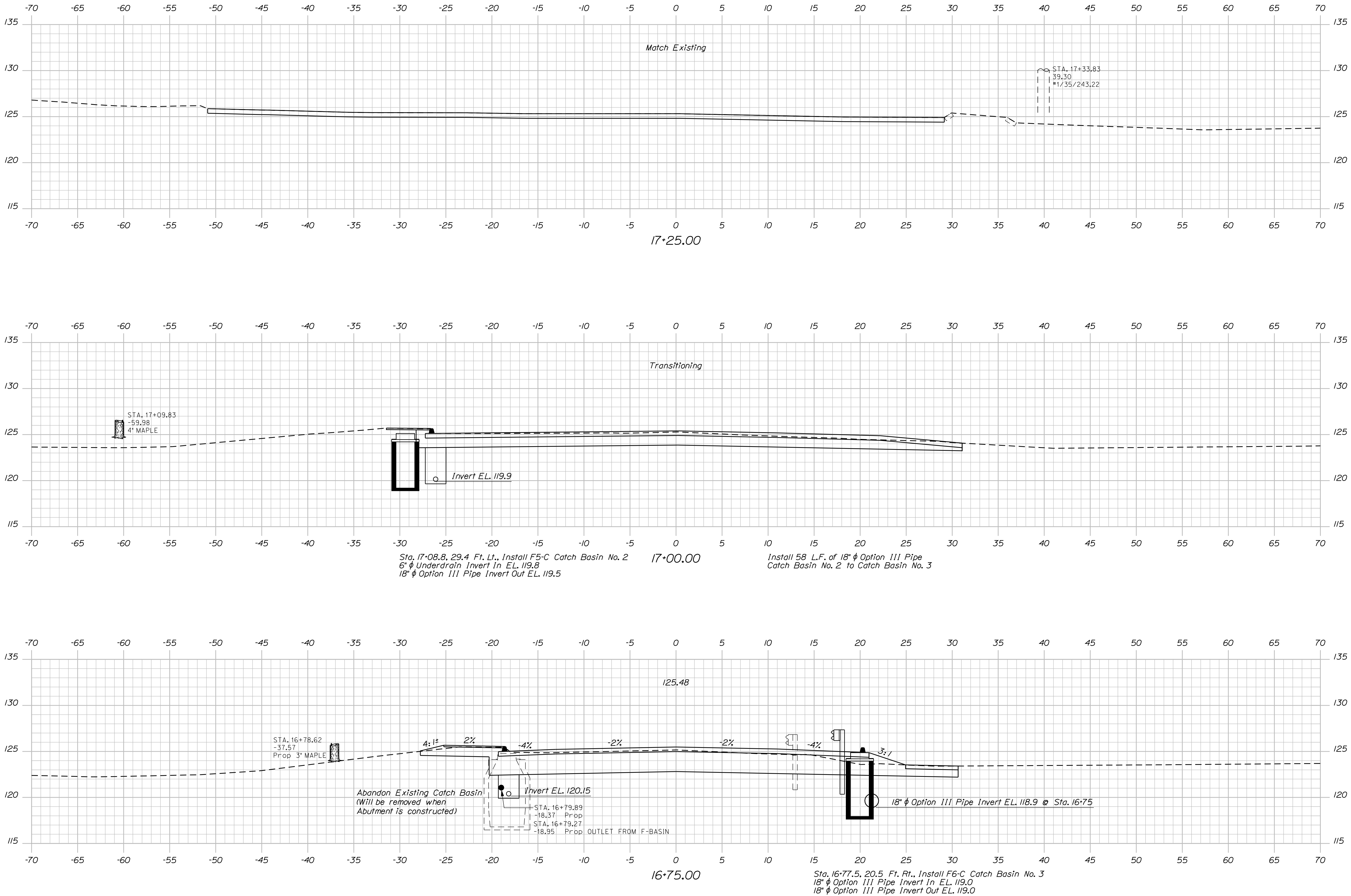


Date: 3/10/2011

Username: david.shaw

Division: BRIDGE

Filename: ... \MSTAO11_Xsect_16+75-17+25.dgn



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
BR-1757(600)X

BRIDGE NO. 2875
PIN
17576.00

BRIDGE PLANS

PROJ. MANAGER	DESIGN-DETAILED	CHECKED-REVIEWED	BY	DATE	SIGNATURE	P.E. NUMBER	DATE
S. BOOGE	R. BULGER	M. WIGHT	D. SHAW	JUNE 2000			
DESIGNS-DETAILED			MRP & DMS				
REVISIONS 1							
REVISIONS 2							
REVISIONS 3							
REVISIONS 4							
FIELD CHANGES							

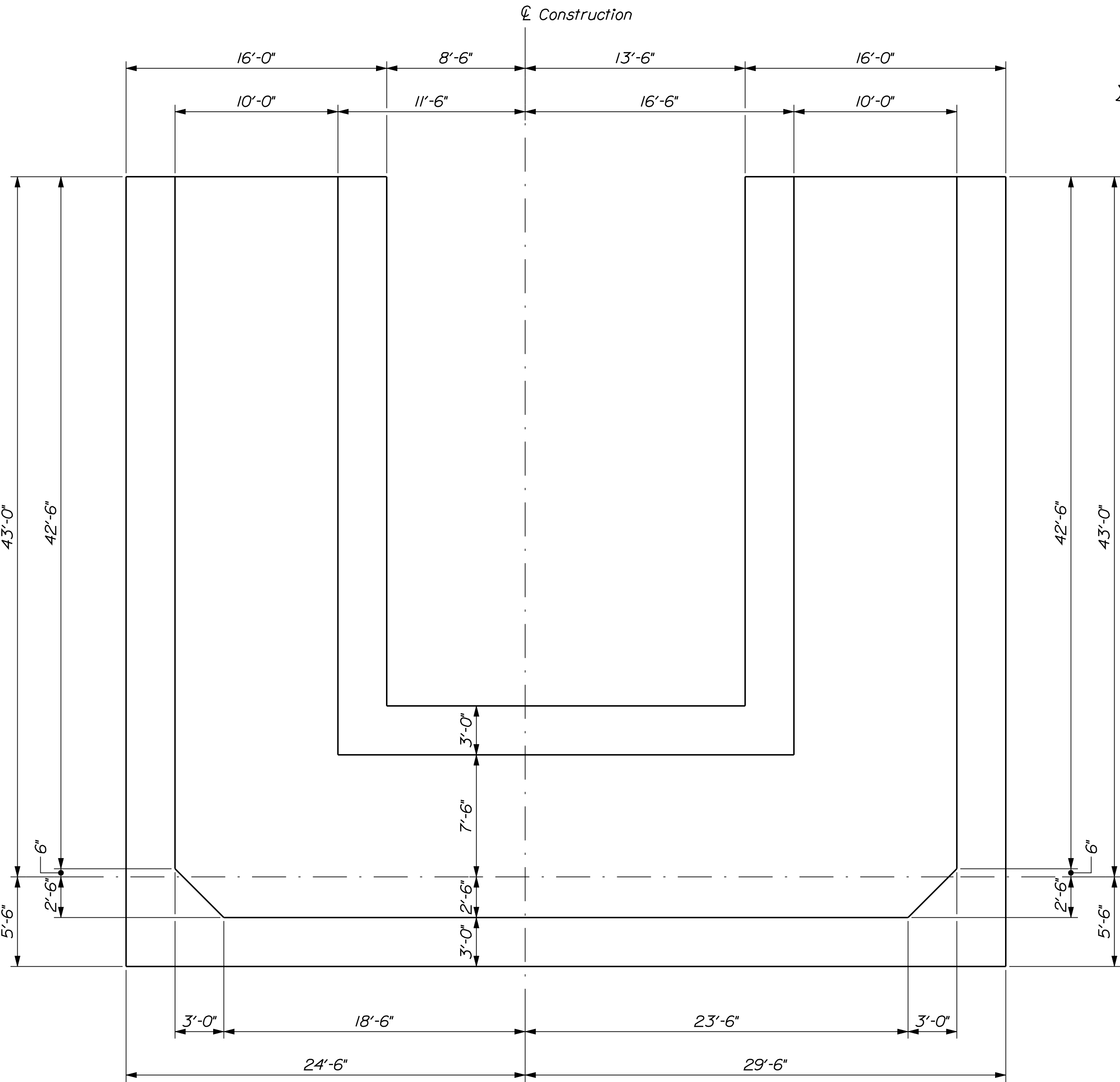
VILLAGE BRIDGE
KENDUSKEAG STREAM
KENDUSKEAG PENOBSCOT COUNTY
CROSS SECTIONS

SHEET NUMBER
11
OF 28

SEAL NOTES

1. The seal concrete shall be placed on bedrock cleaned of all weathered rock, fractured rock, and soil. Prior to placing the seal, the bearing surface shall be washed with high pressure water and air. Where the bedrock surface slope exceeds 4H:1V, the bedrock surface shall be benched in level steps or made completely level. The bedrock bearing surface beneath the near face of the footing placed above the seal shall have a level surface of 3 feet minimum measured perpendicular to the face.
2. After removal of fractured bedrock and before the seal is placed, the surface of the excavated surface shall be inspected by the Resident. The minimum excavation for stability is governed by note 3 below. Additionally, at localized peaks of hard bedrock, the Contractor is required to remove any bedrock that projects up within three feet of the top of the finished seal. In lieu of removing the bedrock, if approved by the Resident, the Contractor may increase the height of the affected seal for the entire length of the abutment and its adjoining wingwalls. Payment for all costs of the rock removal, including all costs associated with blasting if used, shall be considered paid for under Pay Item No. 206.092 Structural Rock Excavation - Major Structures.

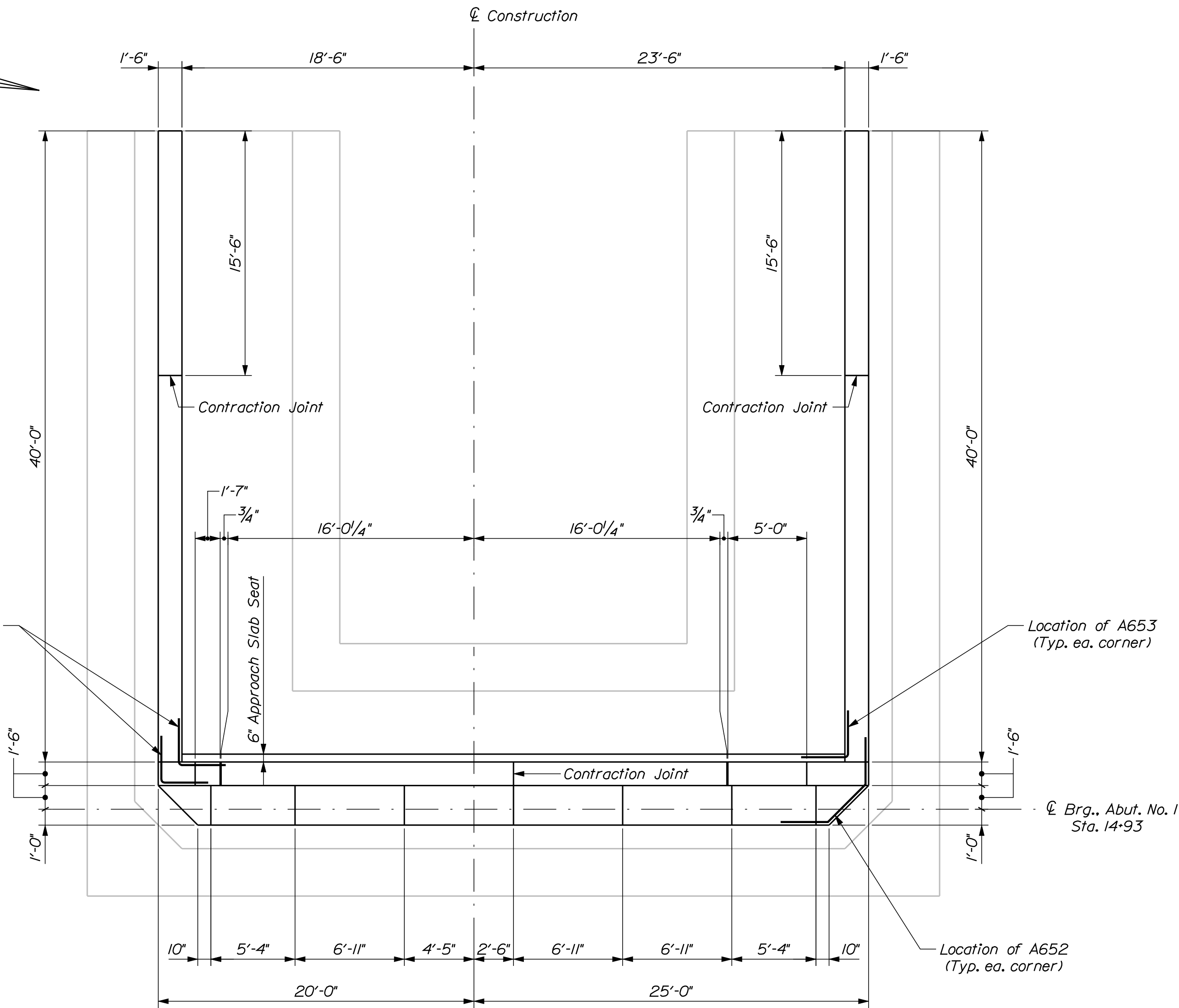
3. The top elevations of the seals at both abutments are designed for a maximum water elevation of 114.9 feet. For sufficient resistance to buoyancy, the top of seal elevations require that the maximum average surface elevation under the Abutment #1 seal is limited to Elevation 106.25 feet, and the maximum average surface elevation under the Abutment #2 seal is limited to Elevation 108.8 feet. These elevation limits for the bottoms of the seals apply to the respective wingwalls as well as the abutments. If the average elevation of the bottom surface of either seal, or the water elevation during placement exceeds the respective limits, the pertinent information shall be forwarded to the Design Office for new seal depth design.
4. Multiple steps of the bedrock may be required due to both the overall elevation change from front to back of the ledge profile, as well as localized steep surface slopes.
5. When sheet piling is used for seal cofferdams, appropriate rolled corners shall be used, and the inside face of the sheet piling shall be at or outside of the seal concrete dimensions shown.
6. The seal concrete placement dimensions shown represent the minimum seal size necessary to meet design requirements and are not based on the use of any particular sheet pile section.
7. The horizontal pay limit for seal concrete will be to the dimensions shown on the plans. No additional payment will be made for concrete placed outside these limits.



PLAN - ABUTMENT NO. 1 SEAL & FOOTING

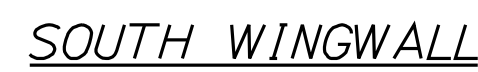
ABUTMENT NOTES

1. The maximum factored applied bearing pressure is 8.7 ksf, which occurs at the bottom of the seal.
2. Reinforcing steel shall have a minimum concrete cover of 2 inches in the walls and 3 inches in the footings unless otherwise noted.
3. Place 4-in. diameter drains in the breastwall and wingwalls at 10-ft maximum spacing. The exact location will be determined by the Resident.
4. Cover joints where waterstops are not required in accordance with Standard Details Section 502.
5. Construct French Drains behind the abutments and wingwalls in accordance with Standard Specifications Section 512, French Drains.
6. Abutments, wingwalls and their footings shall be backfilled with Granular Borrow. Pay limits will be the structural excavation limits in cut areas and a vertical plane located 10 feet behind the walls in fill areas.

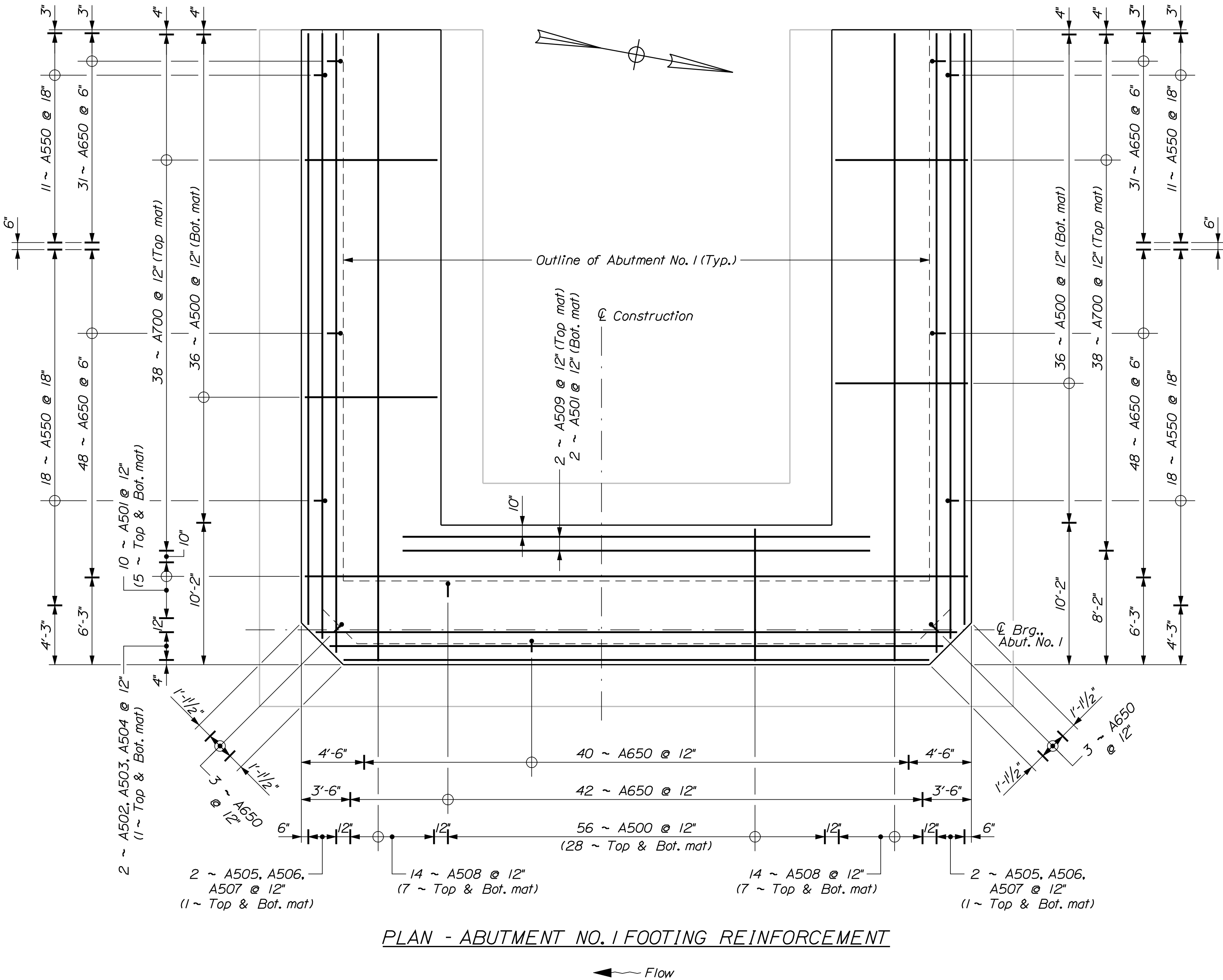
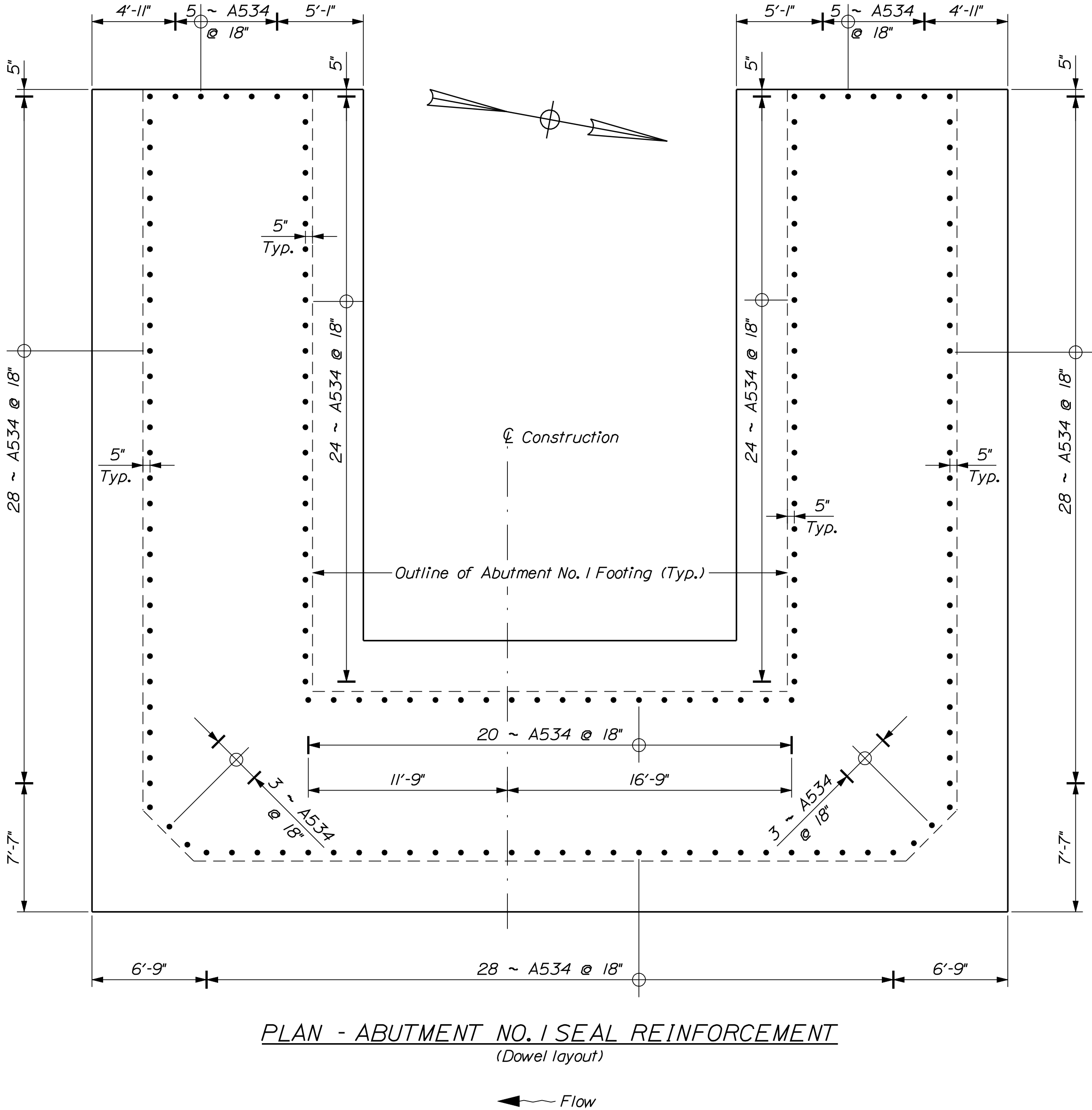


PLAN - ABUTMENT NO. 1

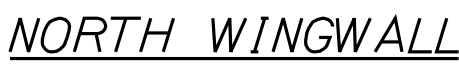
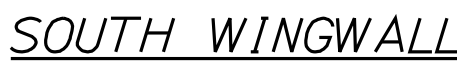
STATE OF MAINE		DEPARTMENT OF TRANSPORTATION	
BR-1757(600)X		BRIDGE NO. 2875	
PIN		17576.00	
BRIDGE PLANS			
VILLAGE BRIDGE		KENDUSKEAG STREAM	
KENDUSKEAG		PENOBSCOT COUNTY	
ABUTMENT NO. 1		SHEET NUMBER	
12		OF 28	
SIGNATURE		P.E. NUMBER	
DATE		FIELD CHANGES	
DESIGN-DETAILED		CHECKED-REVIEWED	
DESIGNS-DETAILED		REVISIONS 1	
REVISIONS 2		REVISIONS 3	
REVISIONS 4		BY	
DATE		S. BOOGE	
BY		D. SHOW	
DATE		JUNE 2000	



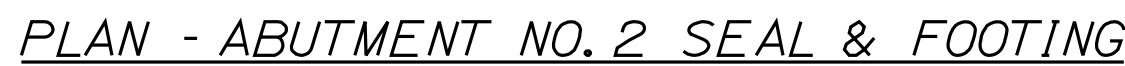
13 OF 28		SHEET NUMBER	VILLAGE BRIDGE KENDUSKEAG STREAM KENDUSKEAG PENOBSCOT COUNTY		PROJ. MANAGER		S. BOODE	BY	DATE	STATE OF MAINE DEPARTMENT OF TRANSPORTATION BR-1757(600)X
					DESIGN-DETAILED		R. Bulger	D. Shaw	JUNE 2010	
					CHECKED-REVIEWED		E. Martin	Anthony	SIGNATURE	
					DESIGN-2-DETAILED02				P.E. NUMBER	
					DESIGN-3-DETAILED03				DATE	
			REVISIONS 1							BRIDGE NO. 2975 PIN 17576.00 BRIDGE PLANS
			REVISIONS 2							
			REVISIONS 3							
			REVISIONS 4							
			FIELD CHANGES							

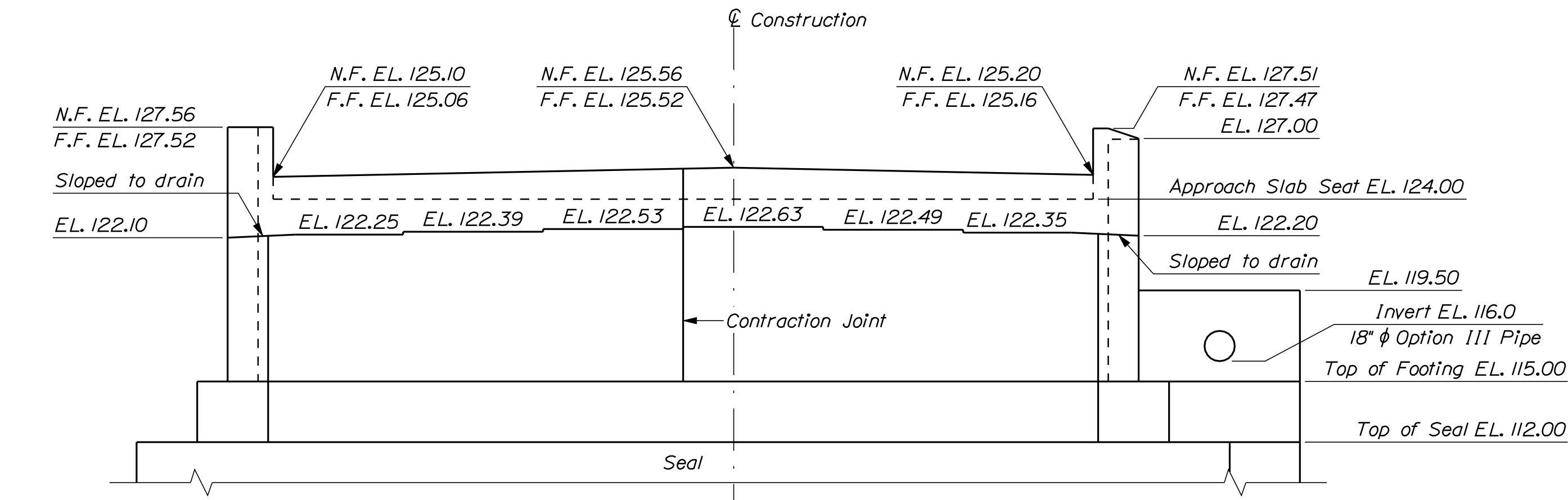


STATE OF MAINE DEPARTMENT OF TRANSPORTATION BR-1757(600)X	SHEET NUMBER			
	14			
	OF 28			
VILLAGE BRIDGE KENDUSKEAG STREAM KENDUSKEAG PENOBSCOT COUNTY ABUT. NO. 1 REINFORCEMENT	DESIGN-DETAILED	CHECKED-REVIEWED	BY	DATE
	DESIGN-DETAILED	DESIGN-DETAILED	S. BOODE R. Bulger Edman Anthony	JUNE 2010
	REVISIONS 1	REVISIONS 2	REVISIONS 3	REVISIONS 4
	REVISIONS 1	REVISIONS 2	REVISIONS 3	REVISIONS 4
FIELD CHANGES				DATE
SIGNATURE				P.E. NUMBER
DATE				BRIDGE NO. 2875
PIN				17576.00
BRIDGE PLANS				

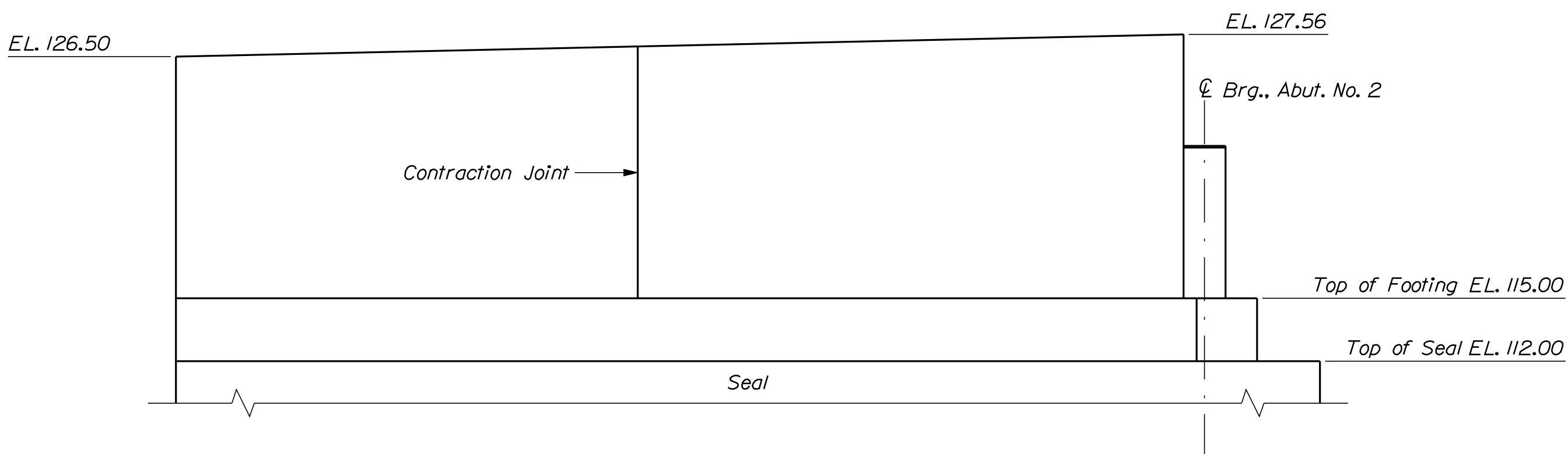


15 OF 28	SHEET NUMBER	VILLAGE BRIDGE KENDUSKEAG STREAM KENDUSKEAG PENOBSCOT COUNTY ABUT. NO. 1 REINFORCEMENT						STATE OF MAINE DEPARTMENT OF TRANSPORTATION BR-1757(600)X BRIDGE NO. 2975 PIN 17576.00 BRIDGE PLANS	
		PROJ. MANAGER		S. BOODE	BY	DATE			
		DESIGN-DETAILED		R. Bulger	D. Snow	JUNE 2010			
		CHECKED-REVIEWED		Erdman, Anthony			SIGNATURE		
		DESIGN-DETAILED2							
		DESIGN-DETAILED3					P.E. NUMBER		
		REVISIONS 1							
		REVISIONS 2							
		REVISIONS 3							
		REVISIONS 4							
		FIELD CHANGES					DATE		

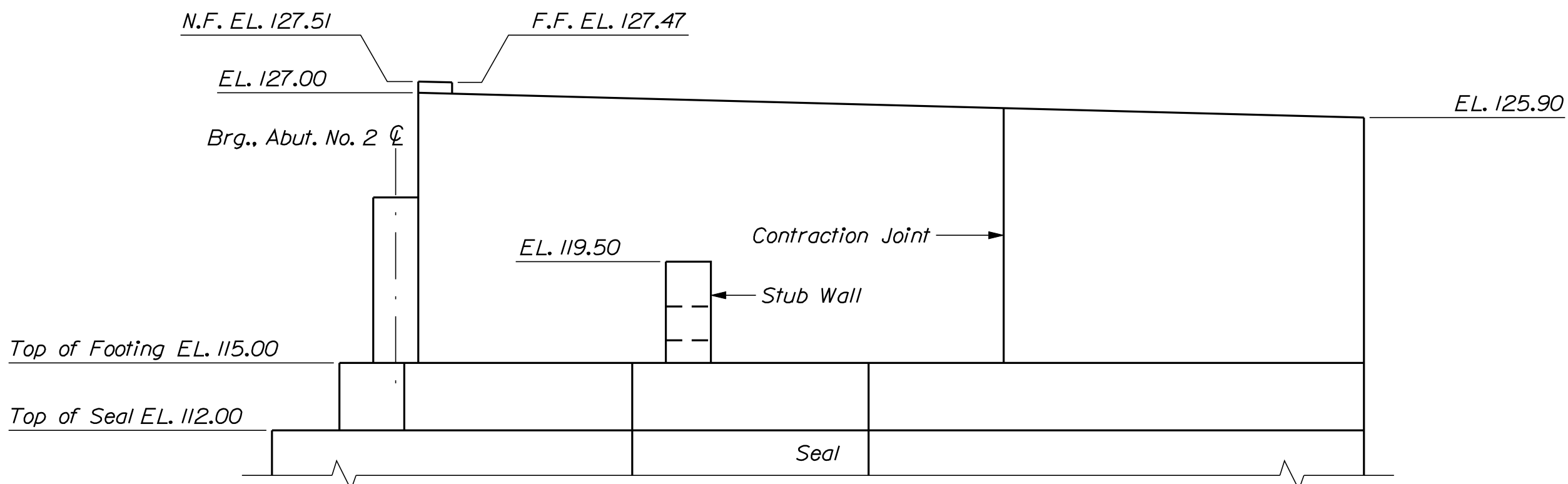
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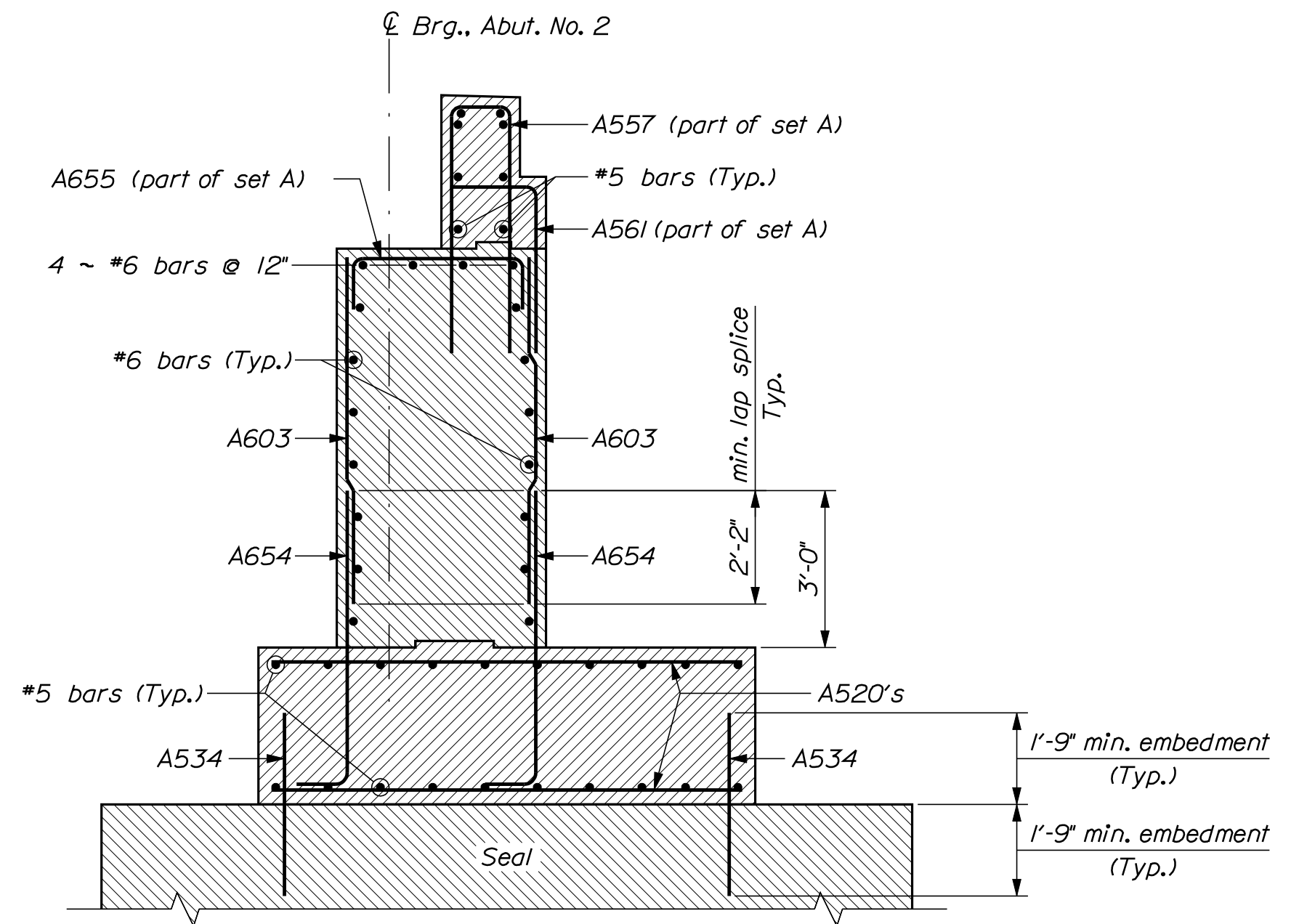
ELEVATION - ABUTMENT NO. 2



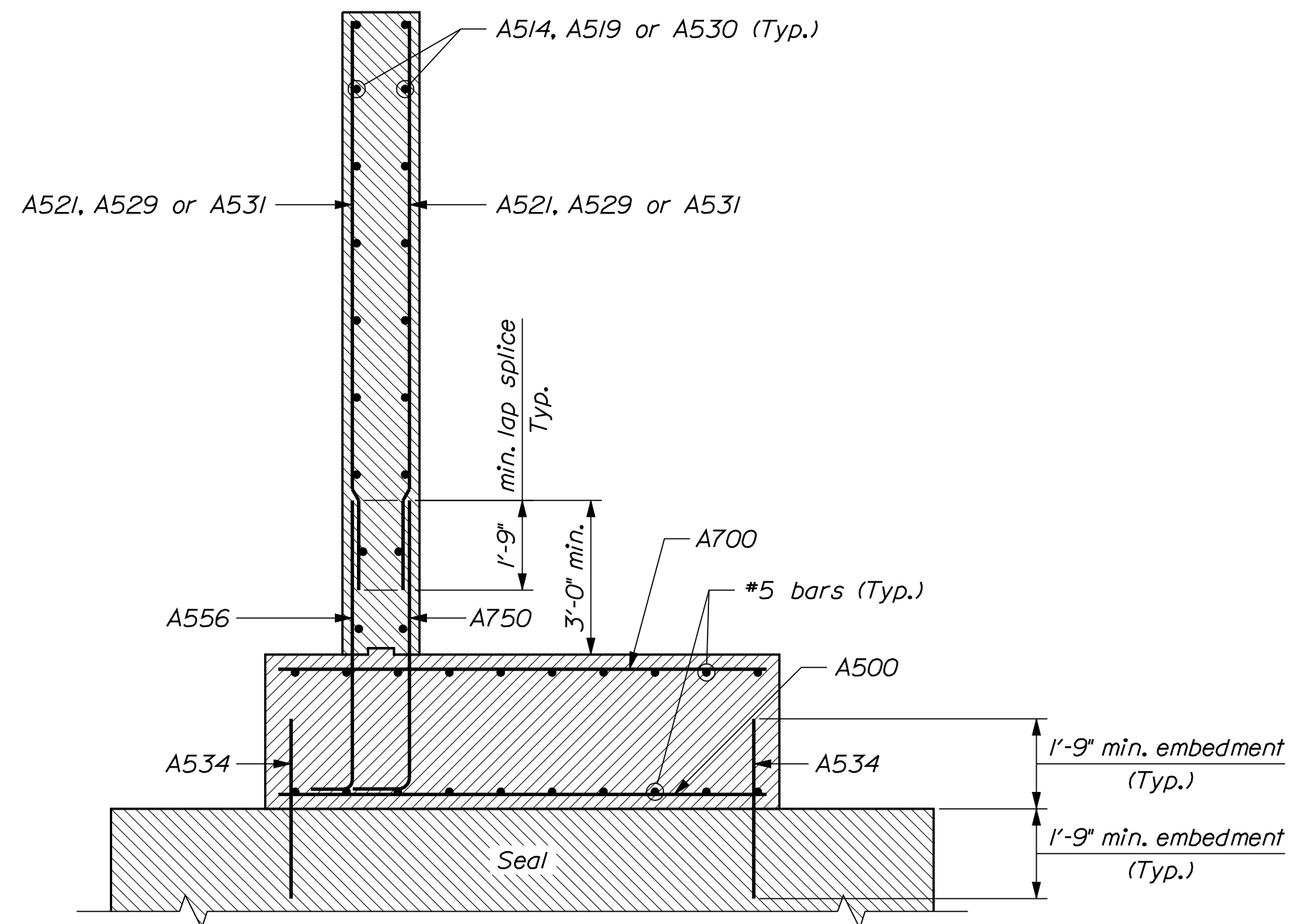
NORTH WINGWALL



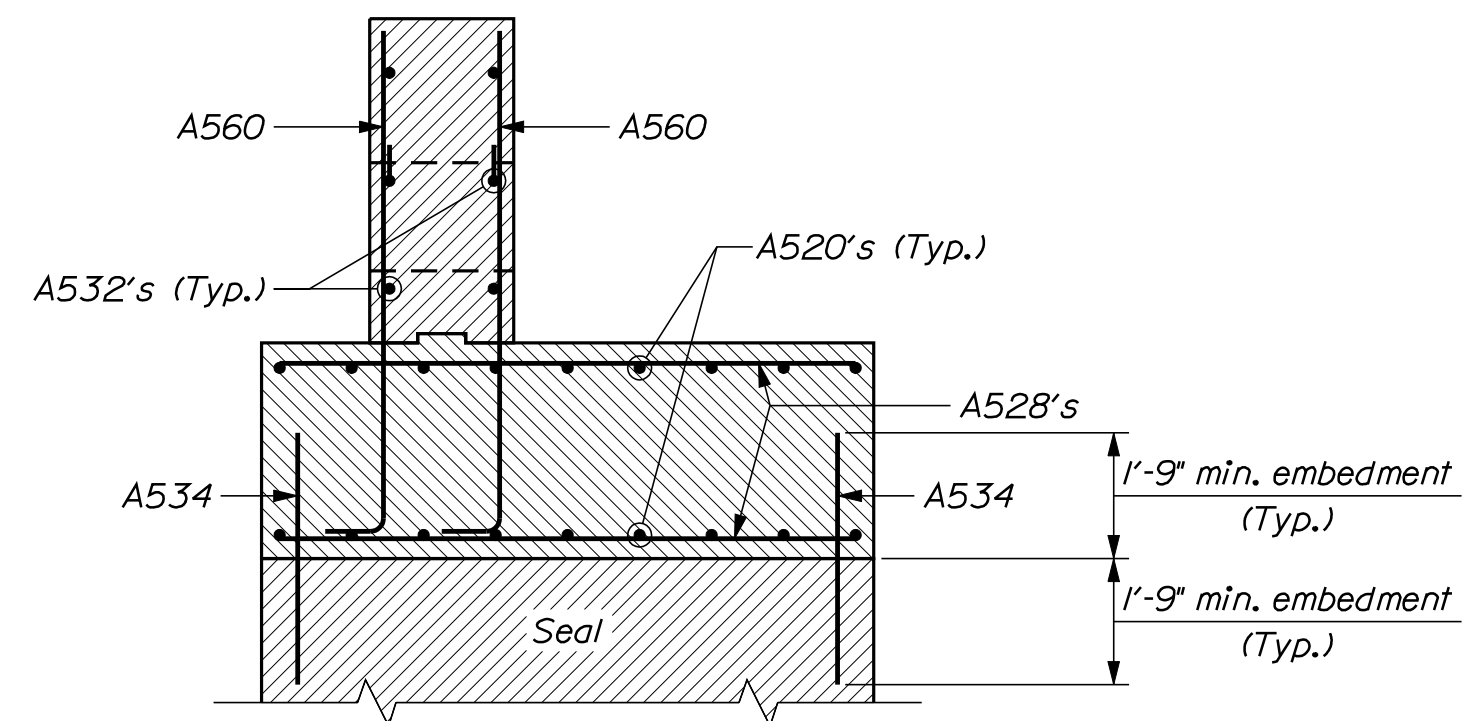
SOUTH WINGWALL



ABUTMENT SECTION



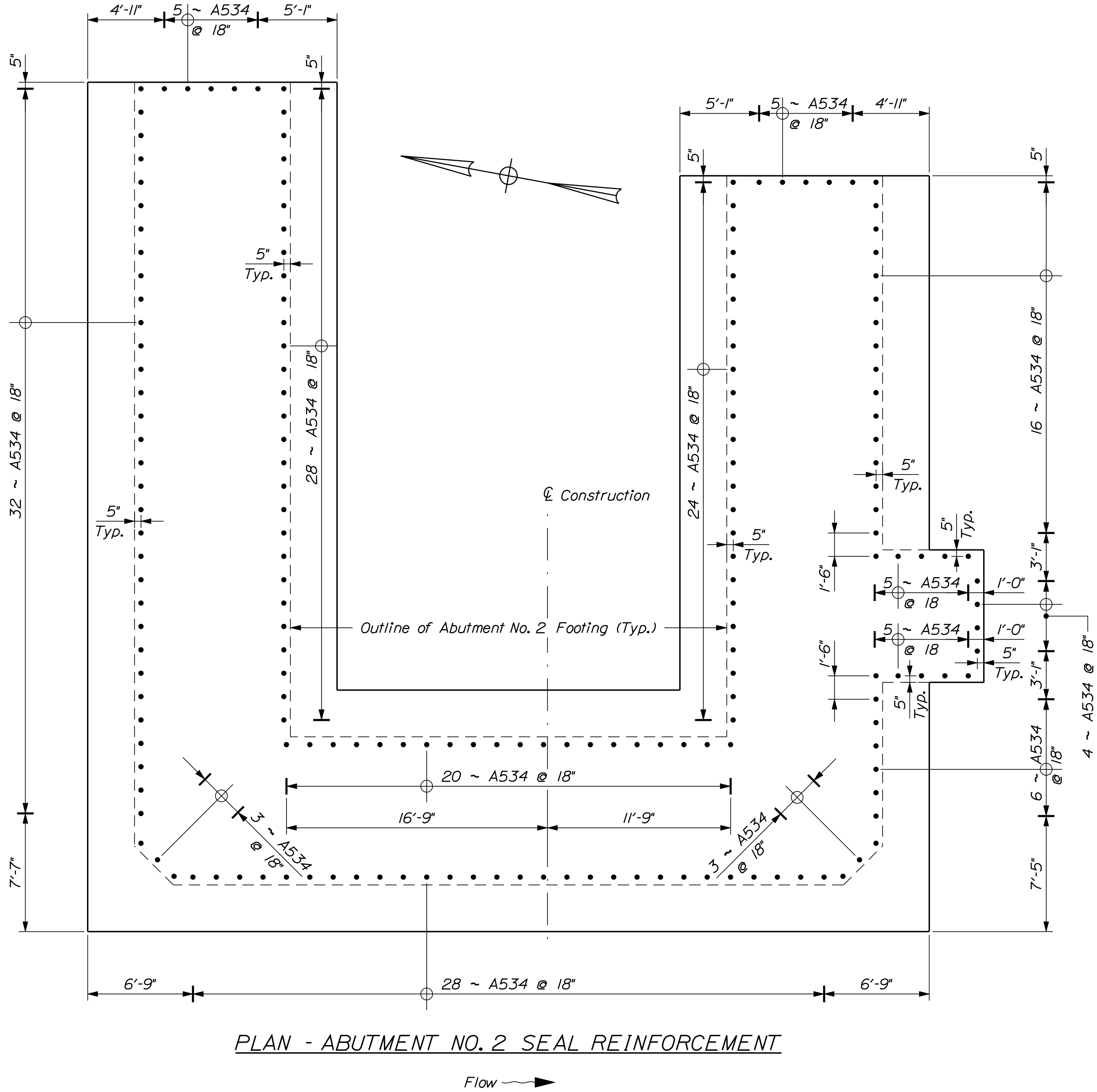
WINGWALL SECTION



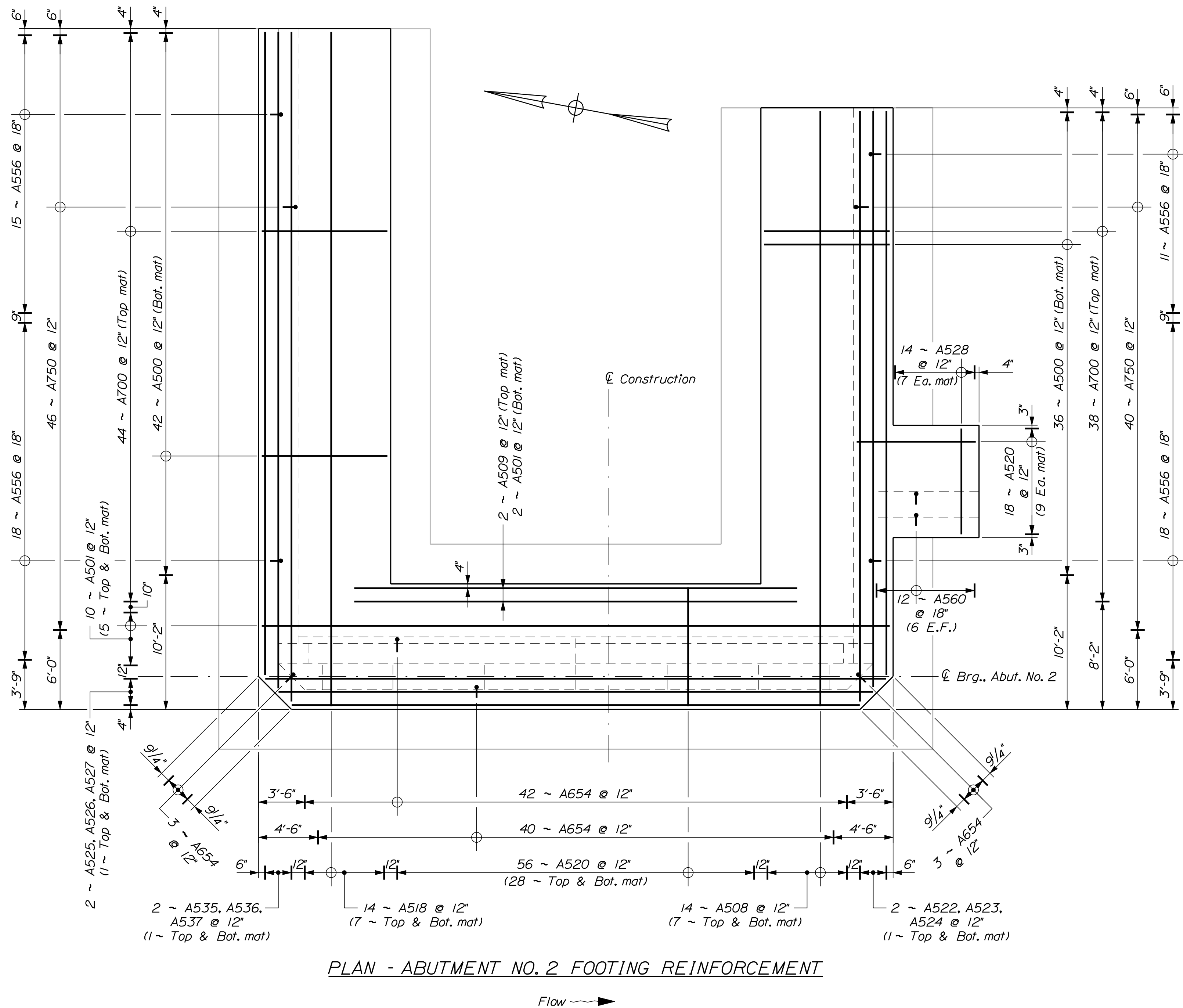
STUB WALL SECTION

SIGNATURE	P.E. NUMBER	DATE

PROJ. MANAGER	BY	DATE
S. BOODE	D. Shaw	JUNE 2000
CHECKED-REVIEWED	R. Bulger	
DESIGN-REVIEWED	Edman Anthony	
DESIGNS DETAILLED		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		



SHEET NUMBER 18 OF 28	VILLAGE BRIDGE KENDUSKEAG STREAM KENDUSKEAG PENOBSCOT COUNTY ABUT. NO. 2 REINFORCEMENT	PROJ. MANAGER	S. BOODE	BY	DATE
		DESIGN-DETAILED	R. Bulger	D. Shaw	JUNE 2010
		CHECKED-REVIEWED	Edman Anthony		
		DESIGN-DETAILED2			
		DESIGN3-DETAILED3			
		REVISIONS 1			
		REVISIONS 2			
		REVISIONS 3			
		REVISIONS 4			
		FIELD CHANGES			
STATE OF MAINE					
DEPARTMENT OF TRANSPORTATION					
BR-1757(600)X					
BRIDGE NO. 2975					
PIN 17576.00					
BRIDGE PLANS					



19 OF 28	SHEET NUMBER	VILLAGE BRIDGE KENDUSKEAG STREAM KENDUSKEAG PENOBSCOT COUNTY ABUT. NO. 2 REINFORCEMENT	PROJ. MANAGER DESIGN-DETAILED CHECKED-REVIEWED DESIGN2-DETAILED2 DESIGN3-DETAILED3	S. BOODE R. Bulger Edman Anthony	BY D. Shaw Anthony	DATE JUNE 2010		STATE OF MAINE DEPARTMENT OF TRANSPORTATION
							SIGNATURE	
							P.E. NUMBER	BR-1757(600)X
							DATE	
							BRIDGE NO. 2975	PIN 17576.00
							FIELD CHANGES	BRIDGE PLANS

ELEVATION - ABUTMENT NO. 2

NORTH WINGWALL

Stub wall not shown for clarity

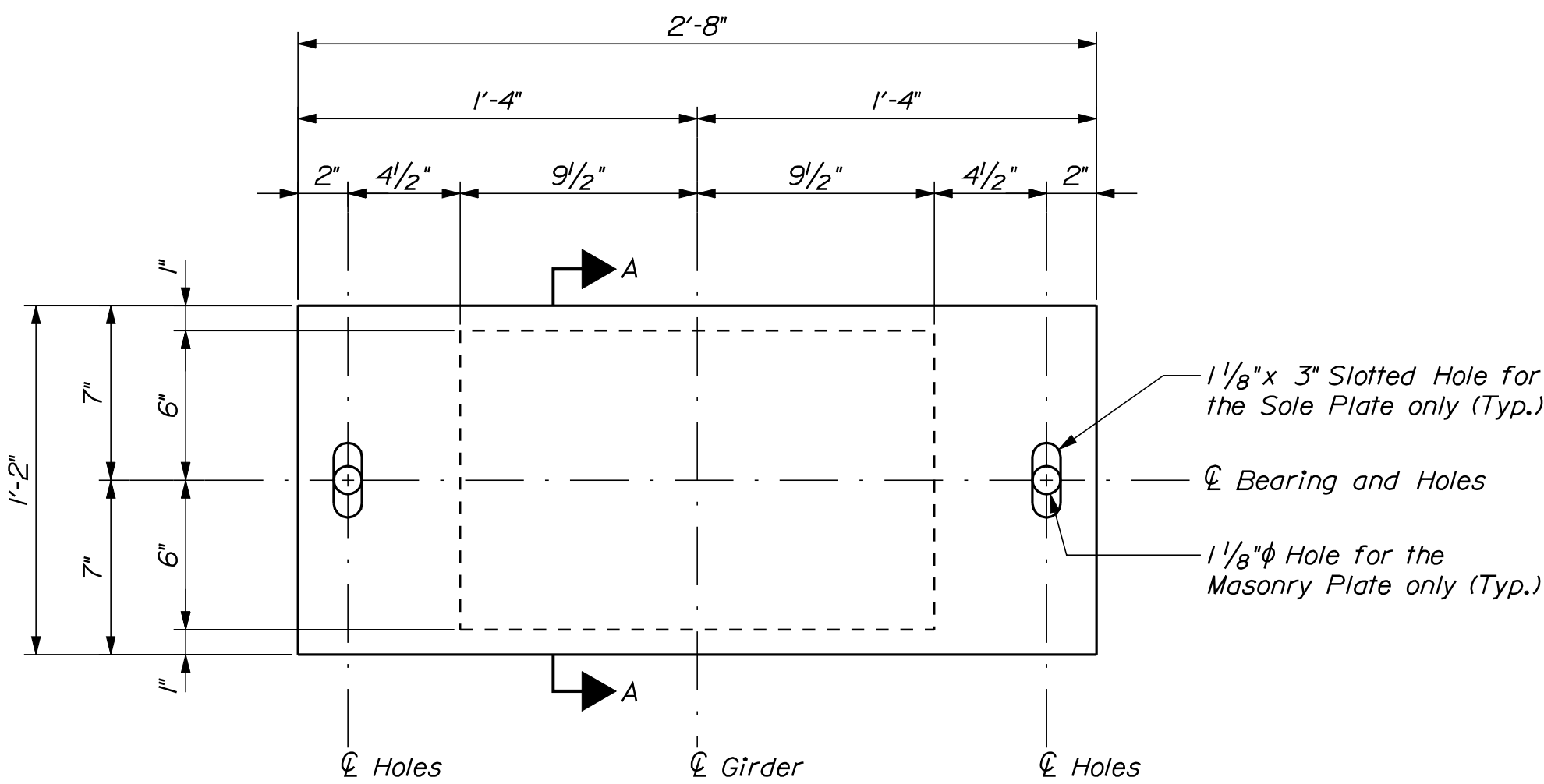
20 OF 28	SHEET NUMBER	VILLAGE BRIDGE KENDUSKEAG STREAM KENDUSKEAG PENOBSCOT COUNTY				PROJ. MANAGER	S. BOODE	BY	DATE	STATE OF MAINE DEPARTMENT OF TRANSPORTATION BR-1757(600)X BRIDGE NO. 2975 PIN 17576.00 BRIDGE PLANS
						DESIGN-DETAILED	R. Bulger	D. Snow	JUNE 2010	
						CHECKED-REVIEWED	Edmond Anthony		SIGNATURE	
						DESIGN2-DETAILED2				
						DESIGN3-DETAILED3			P.E. NUMBER	
						REVISIONS 1				
						REVISIONS 2				
				REVISIONS 3						
				REVISIONS 4				DATE		
				FIELD CHANGES						

Date:3/10/2011

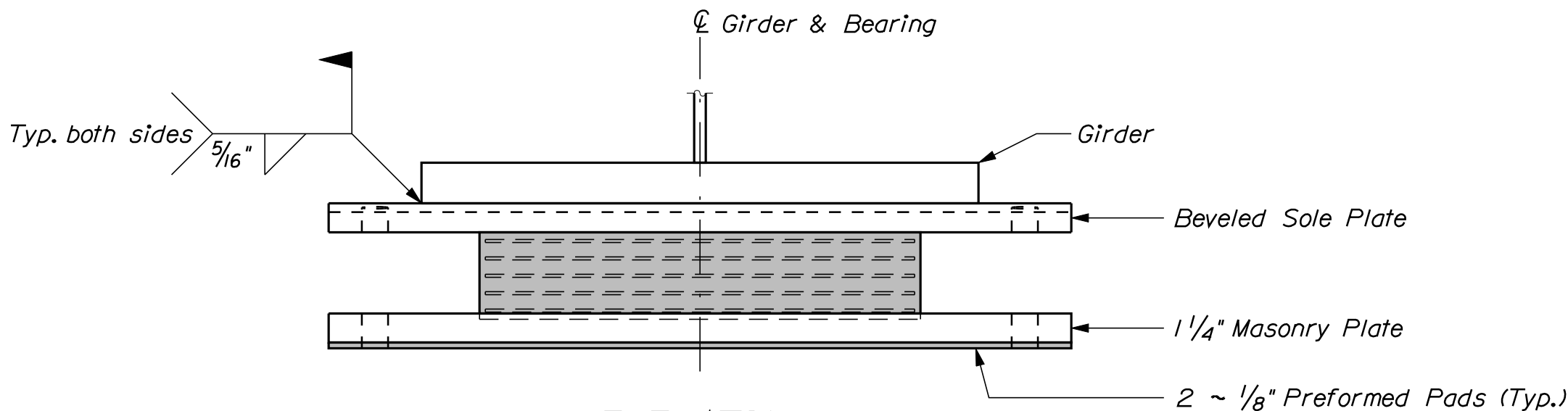
Username: david.shaw

Division: BRIDGE

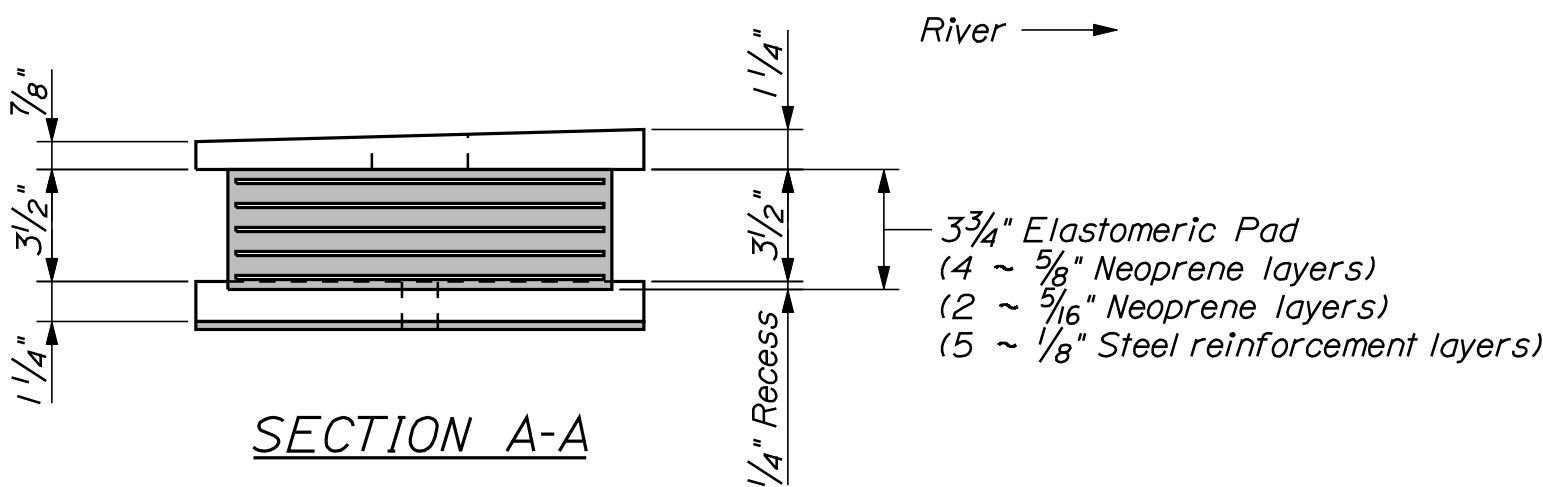
Filename: ... \MSTA\021_Abutment_Bearings.dgn



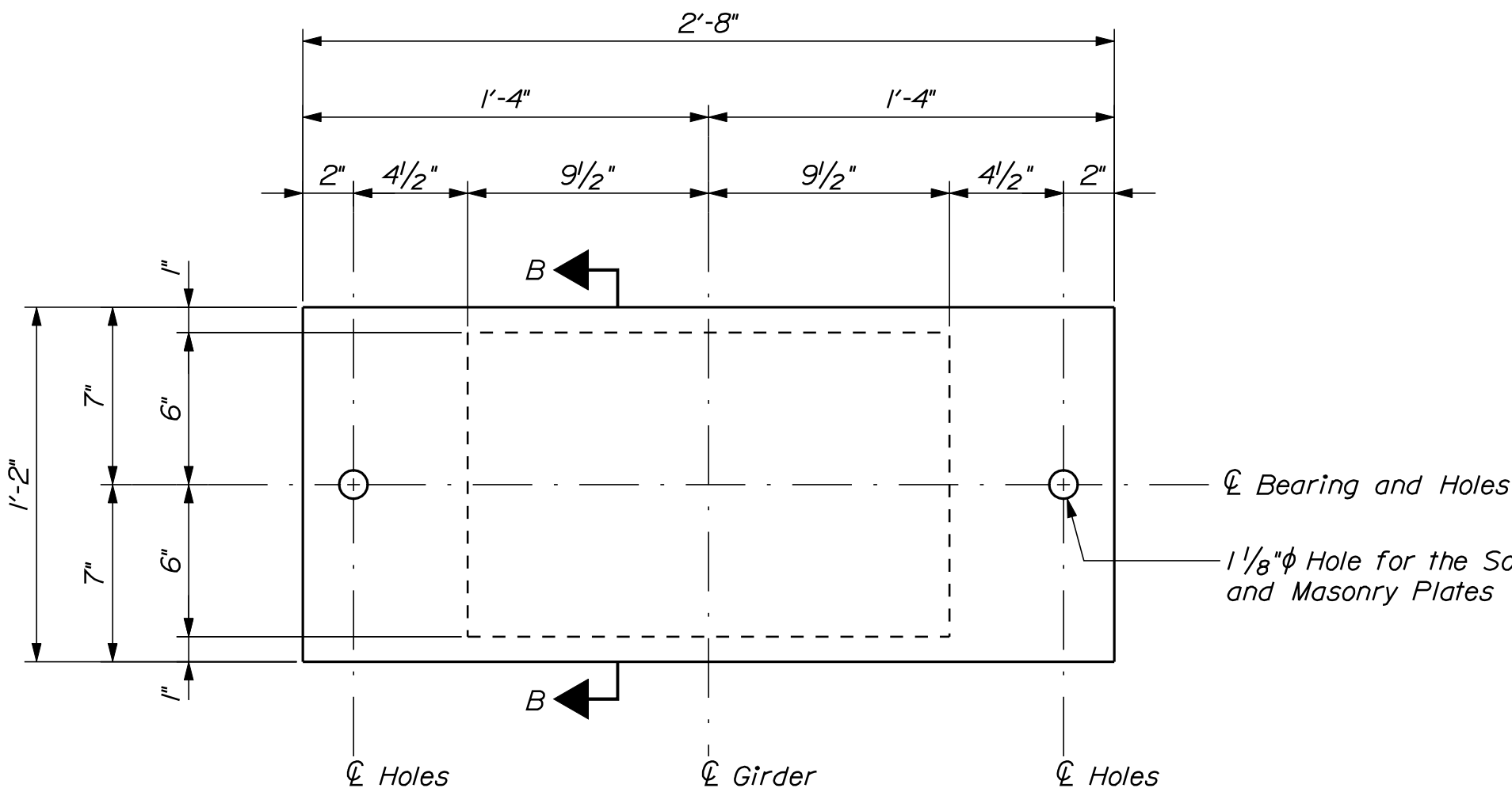
PLAN
Abutment No. 1 - Expansion Bearing



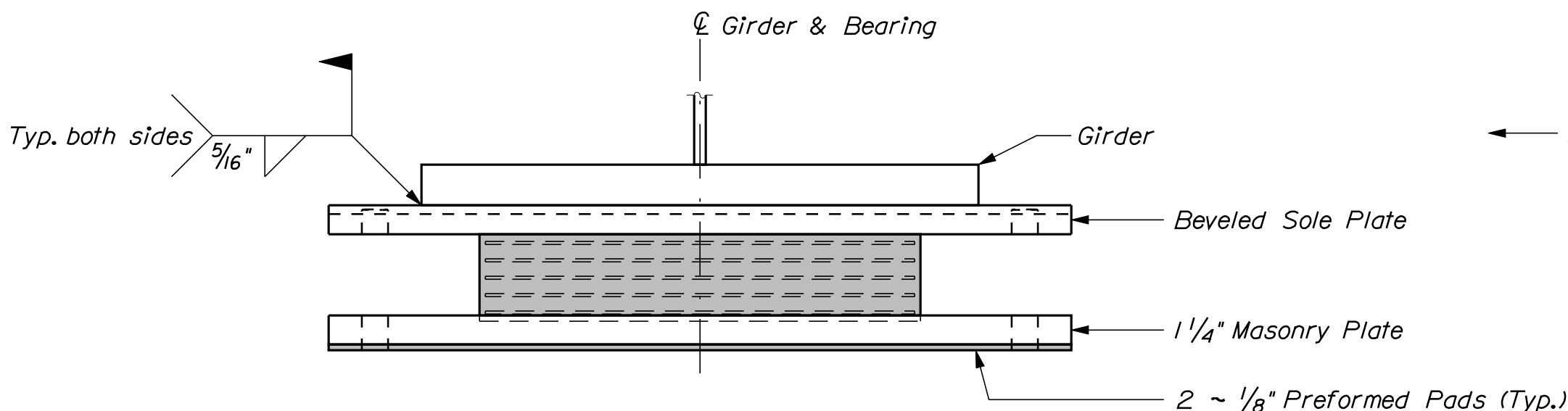
ELEVATION



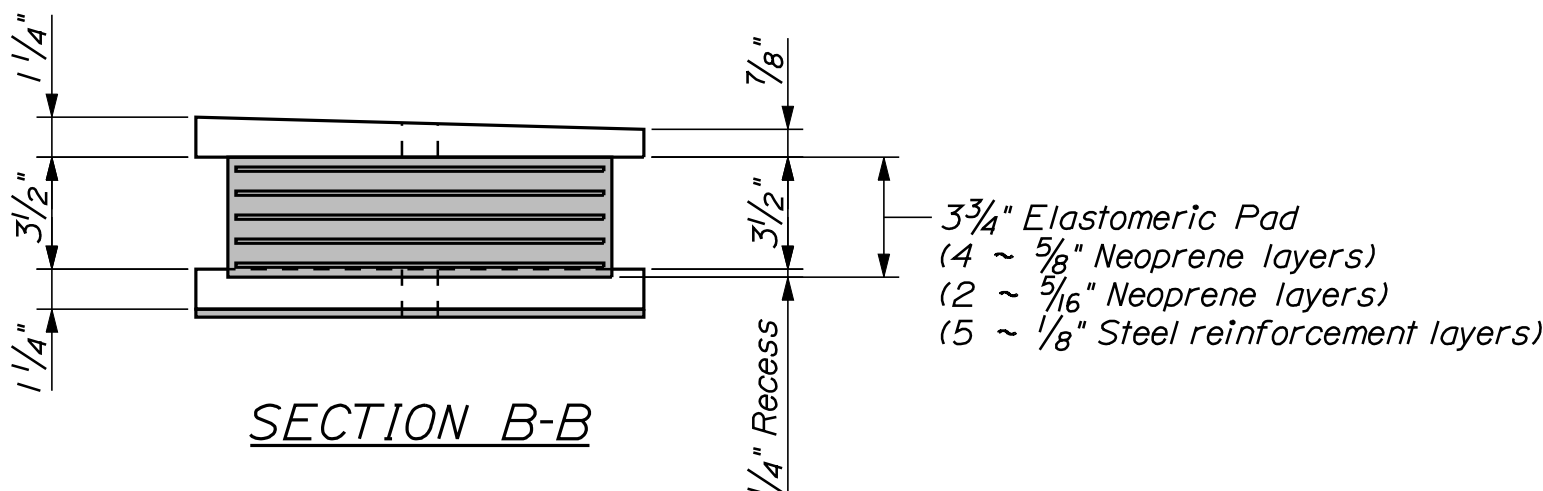
SECTION A-A



PLAN
Abutment No. 2 - Fixed Bearing



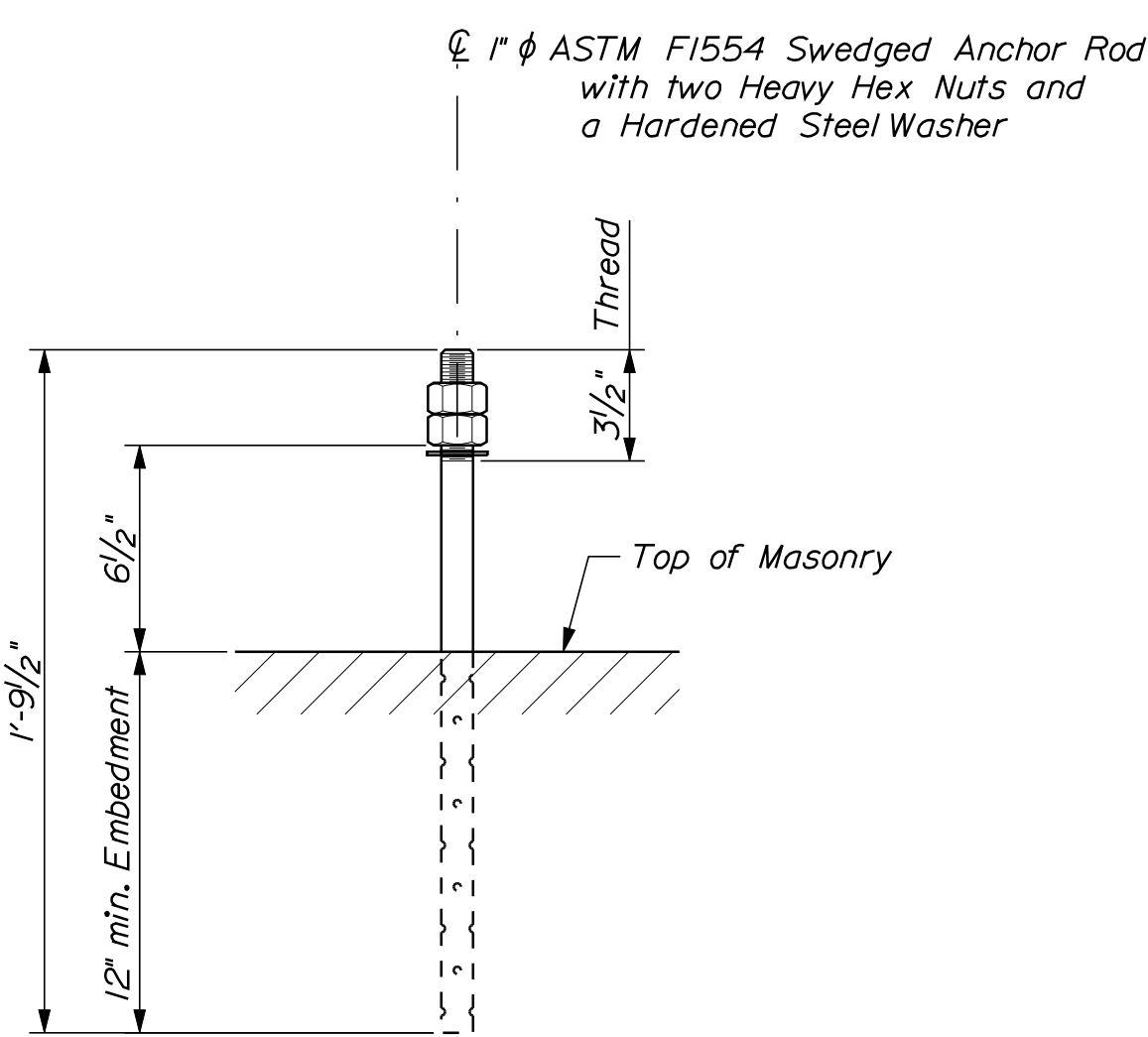
ELEVATION



SECTION B-B

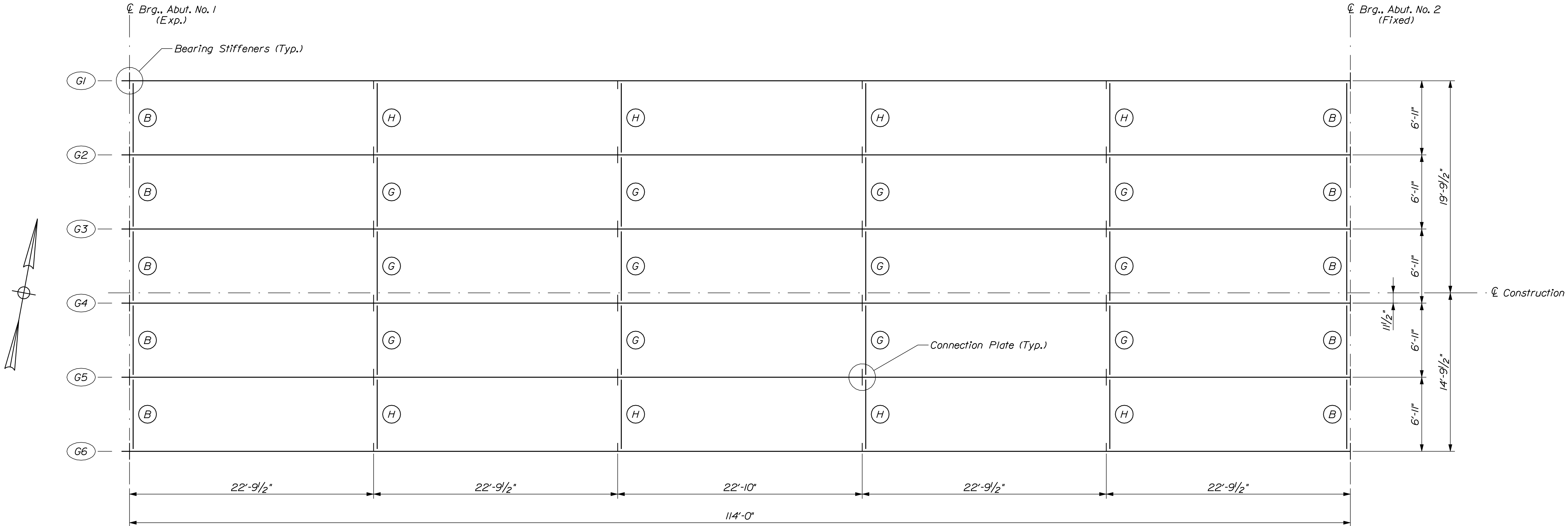
ELASTOMERIC BEARING NOTES

1. The shear modulus of the elastomer shall be in the range of 130 to 200 psi at 73 degrees Fahrenheit.
2. Vulcanizing of the elastomer to the steel plates shall be done during the primary mold process.
3. Masonry plates and sole plates shall meet the requirements of ASTM A 709/A 709M, Grade 50 or 50W. Anchor rods shall meet the requirements of ASTM F 1554, Grade 105 and shall be swedged on the embedded portion of the rod.
4. Masonry plates shall be galvanized in accordance with Section 506. Sole plates for steel superstructures shall be treated in the same manner as the structural steel. Anchor rods, washers and nuts shall be galvanized to ASTM A 153 or ASTM B 695, Class 50, Type 1.
5. All bearings shall be marked prior to shipping. The marks shall include the bearing location on the bridge and a direction arrow which points upstation. All marks shall be permanent and shall be visible after the bearing is installed.
6. Bearings shall be covered during transit.
7. The bearings are designed so that the superstructure may be erected when the ambient air temperature is within the range of 65 °F and 90 °F. If the ambient air temperature is outside this range, the bearings shall be reset as directed by the Resident.
8. All necessary precautions shall be taken to protect bearing components from field weld flash and spatter. Heat from welding operations shall be controlled such that steel adjacent to the elastomer does not exceed 200 °F. The temperature shall be verified by the use of temperature indicating crayons or other suitable means.
9. Upset the threads on the anchor rods above and below the installed nuts after assembly of the bearing.
10. Two layers of preformed pads meeting the requirements of Standard Specification Subsection 713.03 shall be installed under each masonry plate. All materials and work for the installation of the pads shall be considered incidental to Pay Items No. 523.5401 and 523.5402



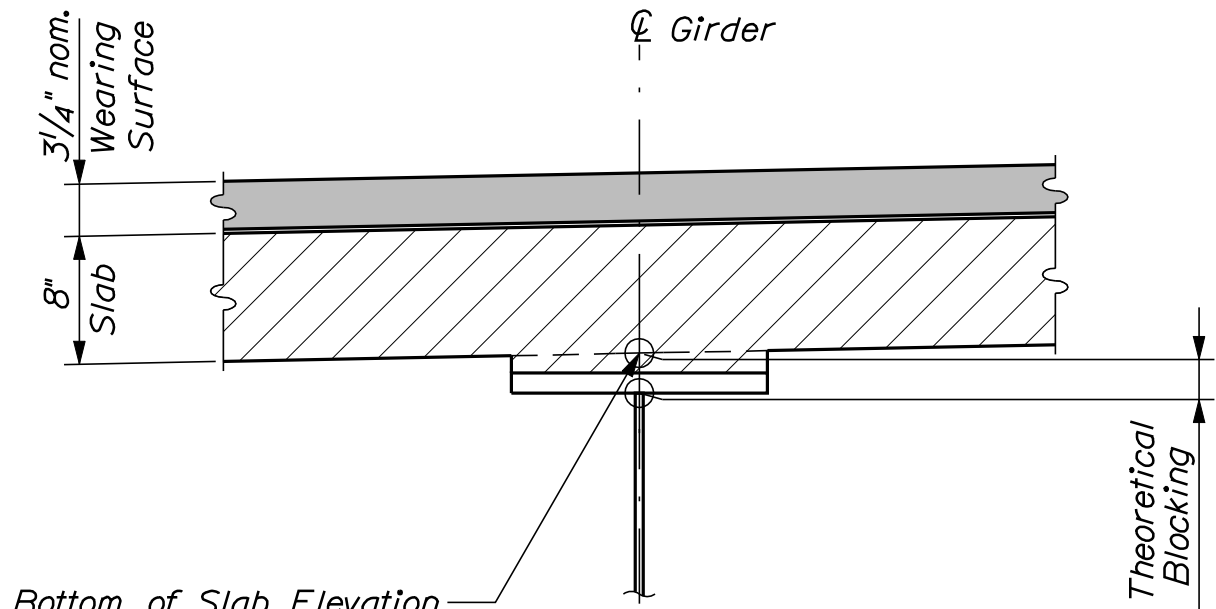
TYPE 1 ANCHOR BOLT

STATE OF MAINE				DEPARTMENT OF TRANSPORTATION				BRIDGE PLANS			
				BR-1757(600)X				PIN 17576.00			
				BRIDGE NO. 2875				DATE			
				SIGNATURE				P.E. NUMBER			
				DATE				FIELD CHANGES			
VILLAGE BRIDGE				PROJ. MANAGER	S. BOODE	BY	D. SHAW	DATE	JUNE 2000		
KENDUSKEAG STREAM				CHECKED-REVIEWED	R. BULGER	DESIGNED	D. SHAW	DATE	JUNE 2000		
KENDUSKEAG				DESIGNED-REVIEWED	R. BULGER	DESIGNED	D. SHAW	DATE	JUNE 2000		
PENOBSCOT COUNTY				DESIGNED-REVIEWED	R. BULGER	DESIGNED	D. SHAW	DATE	JUNE 2000		
ABUTMENT BEARINGS				REVISIONS 1		REVISIONS 2		REVISIONS 3		REVISIONS 4	
SHEET NUMBER				21				OF 28			



FRAMING PLAN

Bottom of Slab Elevations in Feet											
Girder	Abut. No. 1	1st Tenth	2nd Tenth	3rd Tenth	4th Tenth	Midspan	6th Tenth	7th Tenth	8th Tenth	9th Tenth	Abut. No. 2
1	125.77	126.20	126.56	126.82	126.98	127.04	126.98	126.82	126.56	126.20	125.77
2	125.91	126.35	126.71	126.97	127.14	127.19	127.14	126.97	126.71	126.35	125.91
3	126.05	126.49	126.84	127.11	127.28	127.33	127.28	127.11	126.84	126.49	126.05
4	126.15	126.59	126.94	127.21	127.38	127.43	127.38	127.21	126.94	126.59	126.15
5	126.01	126.45	126.81	127.07	127.24	127.29	127.24	127.07	126.81	126.45	126.01
6	125.87	126.30	126.66	126.92	127.08	127.14	127.08	126.92	126.66	126.30	125.87



BLOCKING DETAIL

Theoretical blocking is 2 1/2" at ϕ Brg., Abutments
(Do not use theoretical blocking to set forms)

STRUCTURAL STEEL NOTES

1. Camber ordinates, as shown, are computed to compensate for all dead load deflections and for the curvature of the finished grade profile.
2. No transverse butt weld splices will be allowed in the flange plates or web plates between the two lines of the diaphragms closest to midspan. Butt weld splices in flanges shall be not less than 3 feet from transverse butt welds in the web plates and no transverse web or flange butt welds shall be located within 3 feet of other transverse welds (e.g. connection plate welds) on either flange or web.
3. Bearing stiffeners shall be plumb after erection and dead loading of the structure.
4. Crossframe or diaphragm connection plates may be either plumb or normal to top flange.
5. All bolts shall be 7/8 inch diameter A325, Type 3.
6. Subject to the Resident's approval, the Contractor may be allowed an optional field splice. Working drawings with design computations must be submitted to the Design Office for prior approval. Any bolted field splice connections shall be made using 7/8" diameter, ASTM A325 Type 3 H.S. bolts. Hole size shall be 15/16" diameter unless otherwise shown. Bolt threads shall be excluded from the shear plane of field splice connections. All design, labor, equipment, and material expenses for the approval and installation of optional field splice shall be considered incidental to Pay Item No. 504.71, Structural Steel Erection.
7. Crossframe or diaphragm connection plates shall be welded to the bottom flange in lieu of the bolted tension flange connection shown in Standard Detail 504(21).
8. Sections of flange plates or web plates between transverse shop splices or between a transverse shop splice and a field splice shall be not less than 10 feet in length unless otherwise shown on the plans.
9. The "Drip Plate" detail is for use on the exterior girders only.
10. Girder ends and end cross frames shall be coated to a distance of 10 feet from the centerline of bearing at the abutments in accordance with Special Provision, Section 506, Protective Coating - Steel.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
BR-1757(600)X

BRIDGE NO. 2875
PIN 17576.00
BRIDGE PLANS

PROJ. MANAGER
DESIGN-DETAILED
CHECKED-REVIEWED
DESIGNS-DETAILED
REVISIONS 1
REVISIONS 2
REVISIONS 3
REVISIONS 4
FIELD CHANGES

S. BOODE
R. Bulger
Edman Anthony

BY
D. Shaw
Anthony

DATE
JUNE 2010

SIGNATURE
P.E. NUMBER
DATE

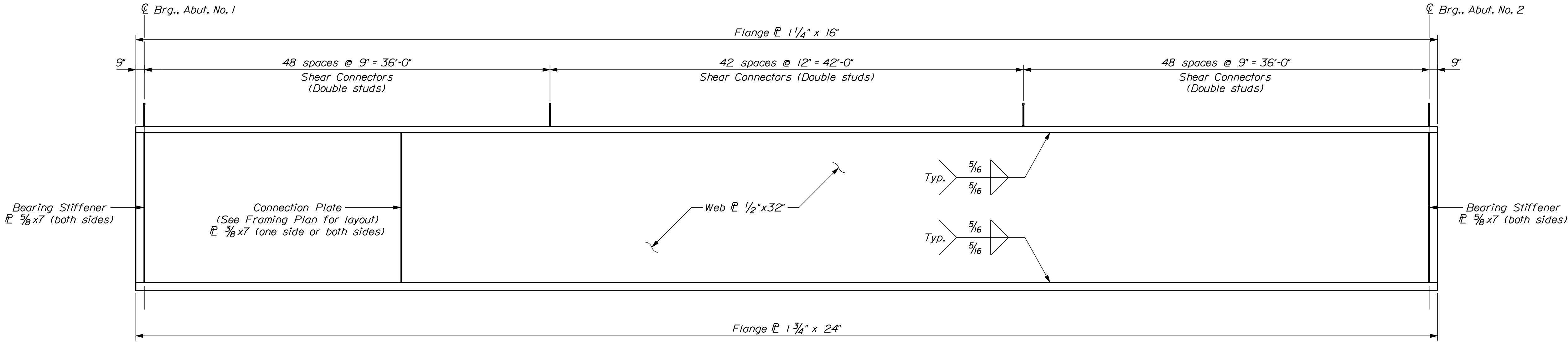
VILLAGE BRIDGE
KENDUSKEAG STREAM
KENDUSKEAG
PENOBSCOT COUNTY

FRAMING PLAN

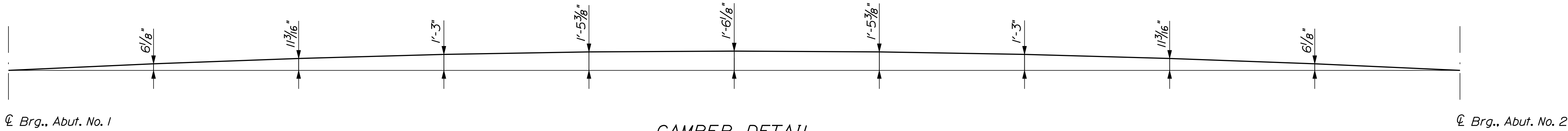
SHEET NUMBER

22

OF 28

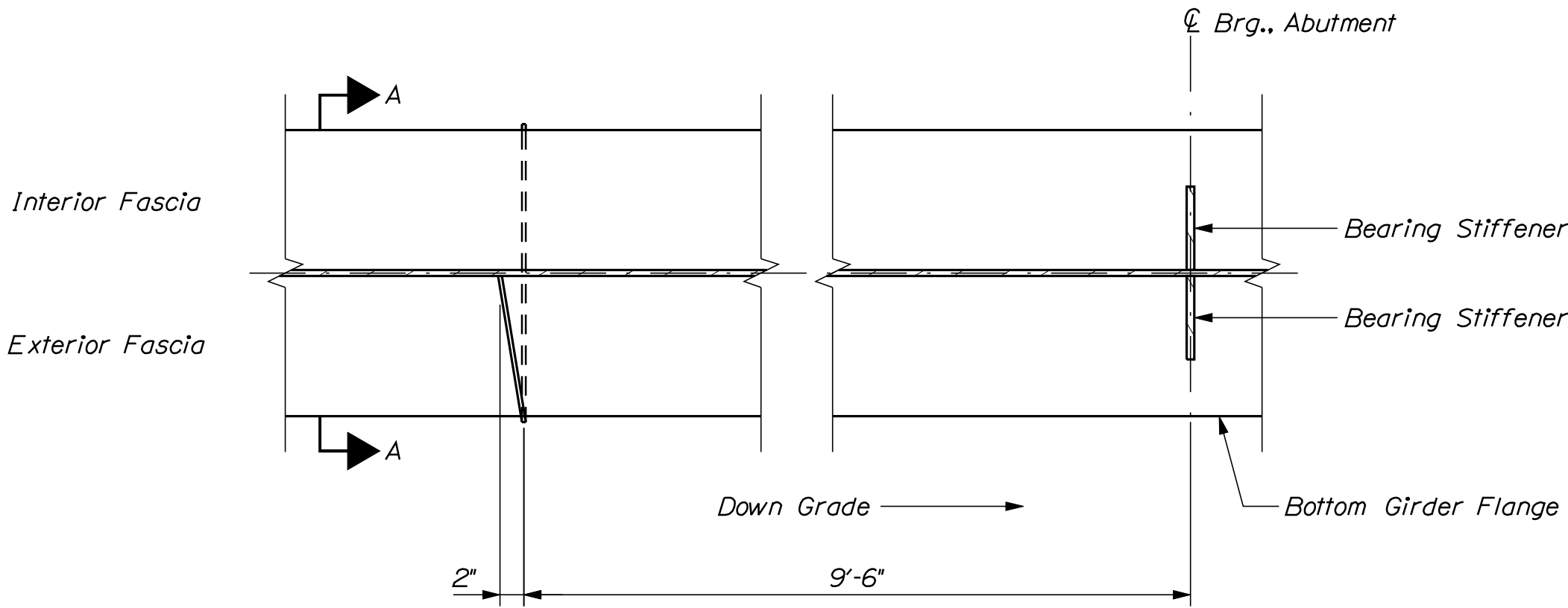


GIRDER ELEVATION
278 Shear Connectors / Girder

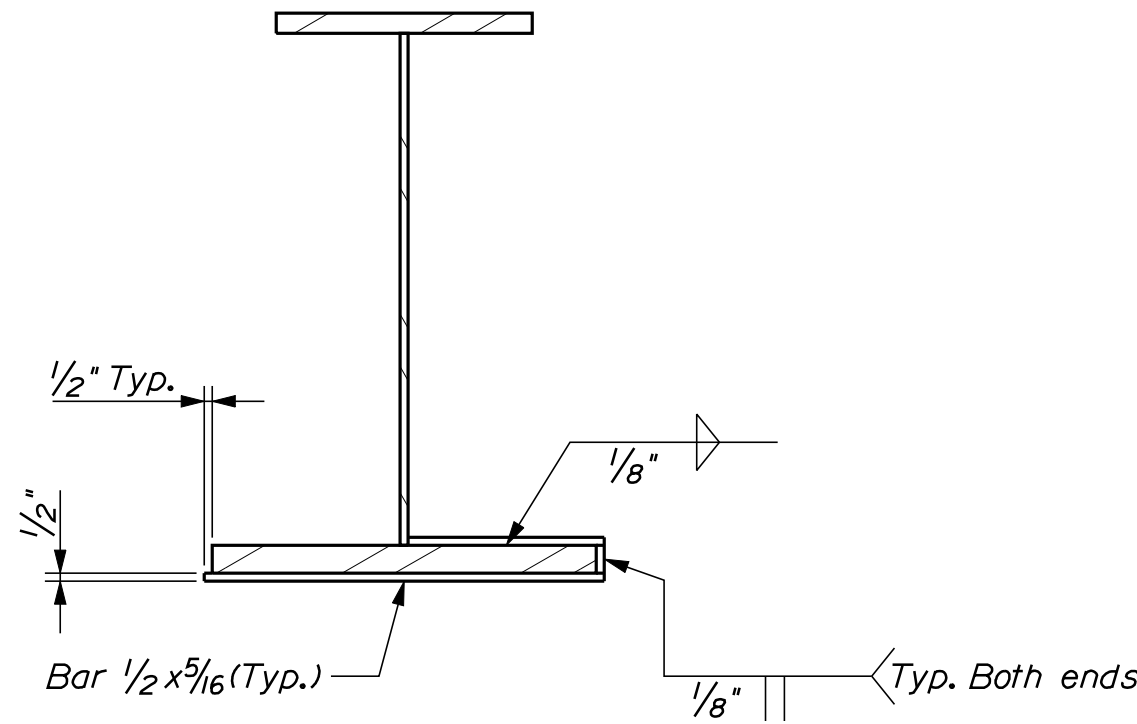


CAMBER DETAIL

Table of Deflections (Interior and exterior girders similiar) in Feet											
	Abut. No. 1	1st Tenth	2nd Tenth	3rd Tenth	4th Tenth	Midspan	6th Tenth	7th Tenth	8th Tenth	9th Tenth	Abut. No. 2
Steel	0.00	0.07	0.14	0.19	0.22	0.23	0.22	0.19	0.14	0.07	0.00
Fluid Concrete	0.00	0.14	0.26	0.36	0.42	0.44	0.42	0.36	0.26	0.14	0.00
Long Term	0.00	0.05	0.09	0.12	0.14	0.15	0.14	0.12	0.09	0.05	0.00
Vertical Alignment Difference	0.00	0.25	0.44	0.58	0.67	0.69	0.67	0.58	0.44	0.25	0.00
Total Girder Camber	0.00	0.51	0.93	1.25	1.45	1.51	1.45	1.25	0.93	0.51	0.00



PLAN



SECTION A-A

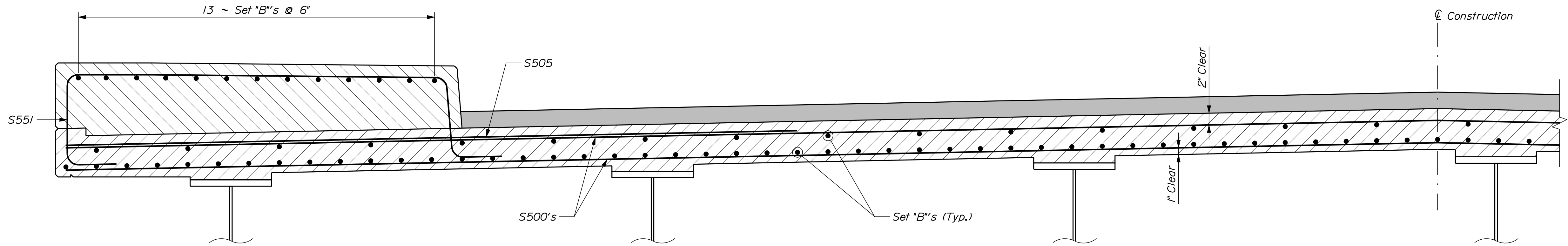
DRIP PLATE DETAIL

STATE OF MAINE DEPARTMENT OF TRANSPORTATION	BR-1757(600)X		BRIDGE NO. 2875	PIN 17576.00	BRIDGE PLANS		
	SIGNATURE					P.E. NUMBER	DATE
VILLAGE BRIDGE KENDUSKEAG STREAM KENDUSKEAG PENOBSCOT COUNTY							
GIRDER DETAILS							
SHEET NUMBER 23 OF 28							

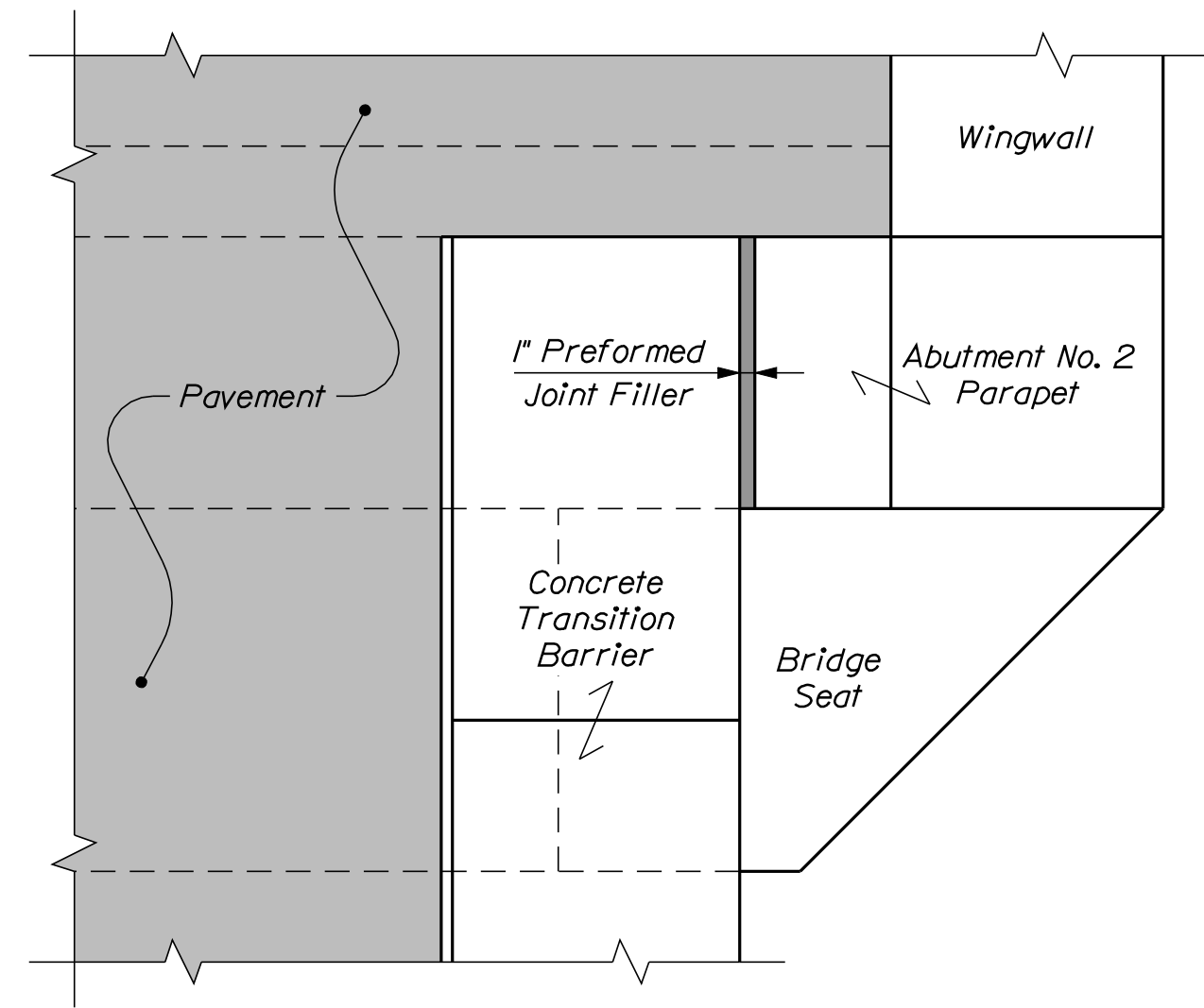


1. The theoretical blocking used for design of the structure is 2.5 inches at the centerline of bearing of the abutments. Refer to Standard Detail 502(02) for blocking details.
2. Reinforcing steel shall have a minimum concrete cover of 2 inches unless otherwise noted.
3. Form a one inch V-groove on the fascias at the horizontal joint between the curb and slab.
4. The superstructure slab concrete shall be placed continuously and shall be kept plastic until the entire placement has been made.
5. At the Contractor's option, Precast Deck Panels may be used in place of the full depth cast-in-place deck slab, in accordance with Special Provisions Section 502, Structural Concrete - Precast Deck Panels, and in accordance with the Standard Details.
6. The gland seal installed at Abutment No. 1 shall have minimum Movement Rating of 1.4 inches.
7. The Resident shall approve the seal prior to fabrication of the Expansion Device.
8. The Contractor shall install Transition Barrier vertical closed stirrups, as shown in Standard Details Section 526, prior to the placement of the curb or sidewalk concrete.
9. The Expansion Device shall be set to an opening of two inches in the fabrication shop. The joint opening shall be adjusted for temperature in the field at the time of installation using the following formula:
$$0.00008 \times "114'-0" \times "\Delta T" = \text{Adjustment (in inches)}$$

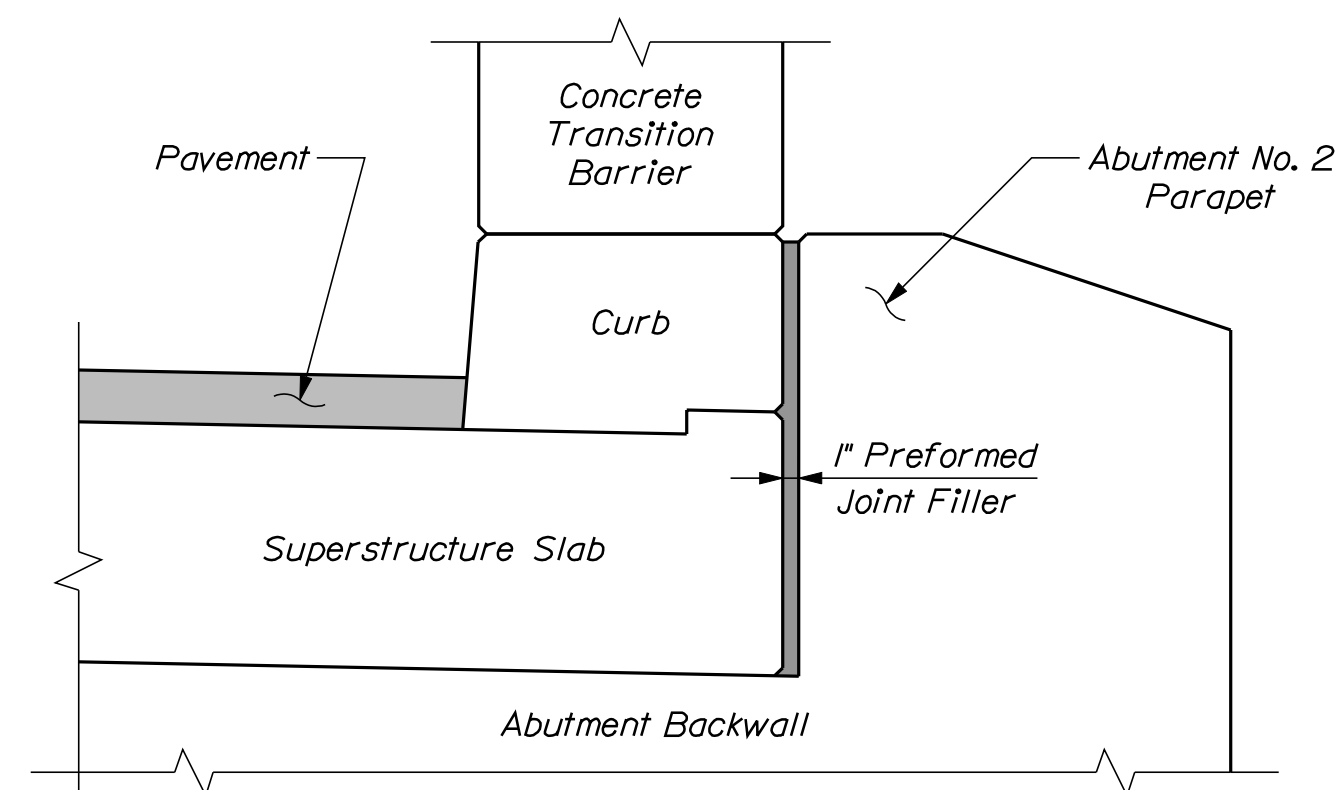
" ΔT " is the difference between the temperature of the structure and 45°F.
A structure temperature above 45°F will result in a smaller joint opening.
10. Payment for all work and materials to install Preformed Joint Filler against the inside faces of the Abutment #2 parapets and to install two layers of heavy roofing felt between the bottom of the slab and the top of the Abutment #2 backwall, shall be considered as incidental to related contract items.



TYPICAL BRIDGE SECTION

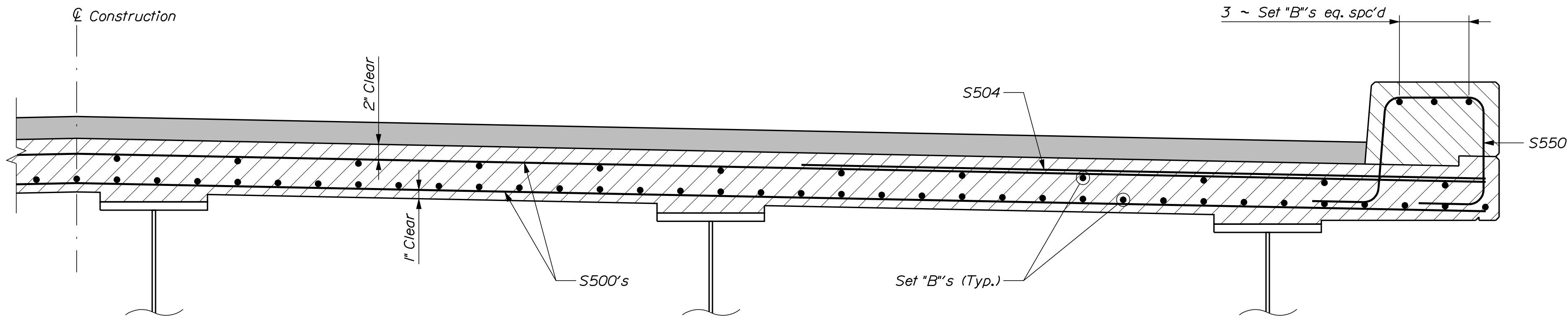


PLAN

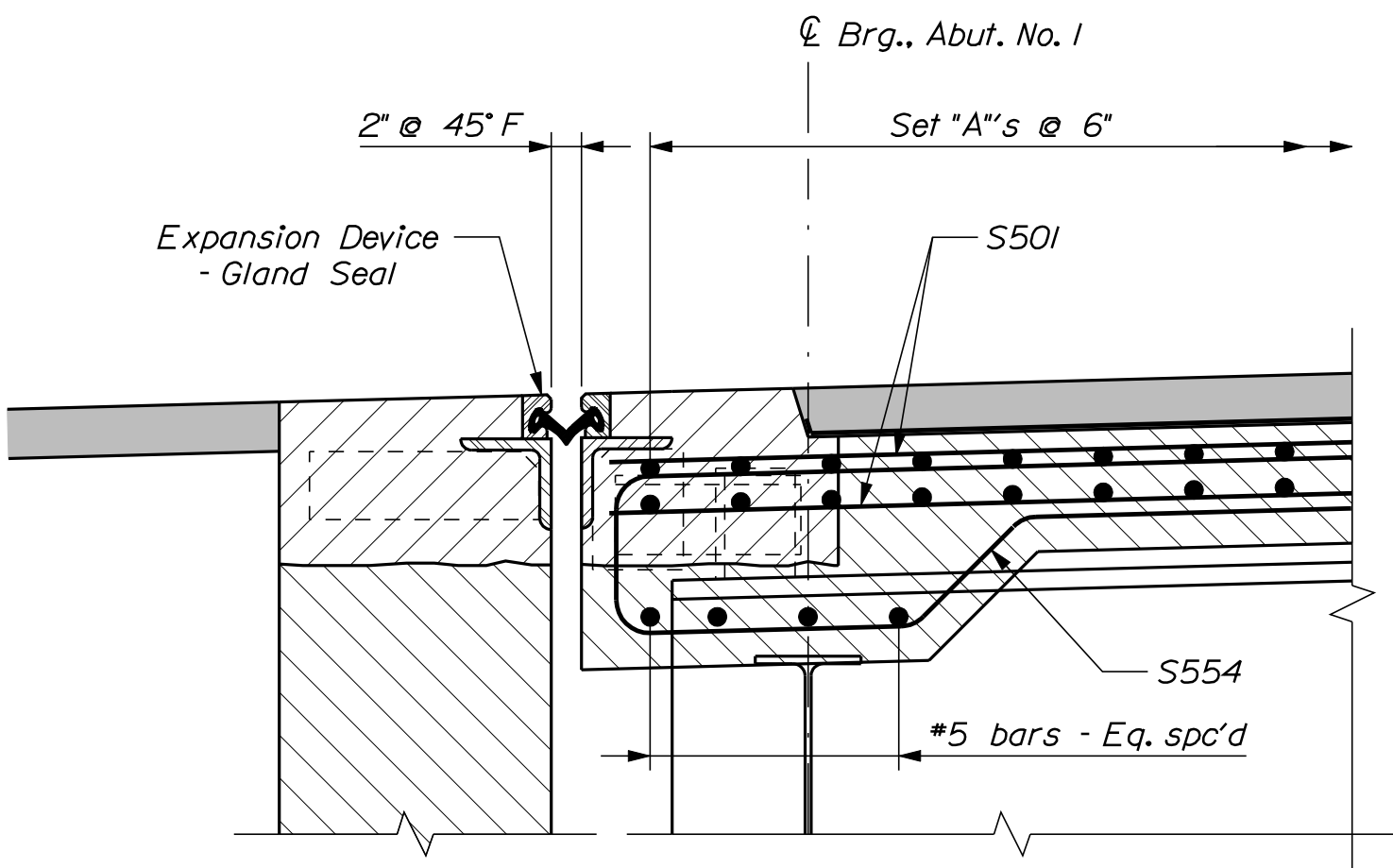


ELEVATION

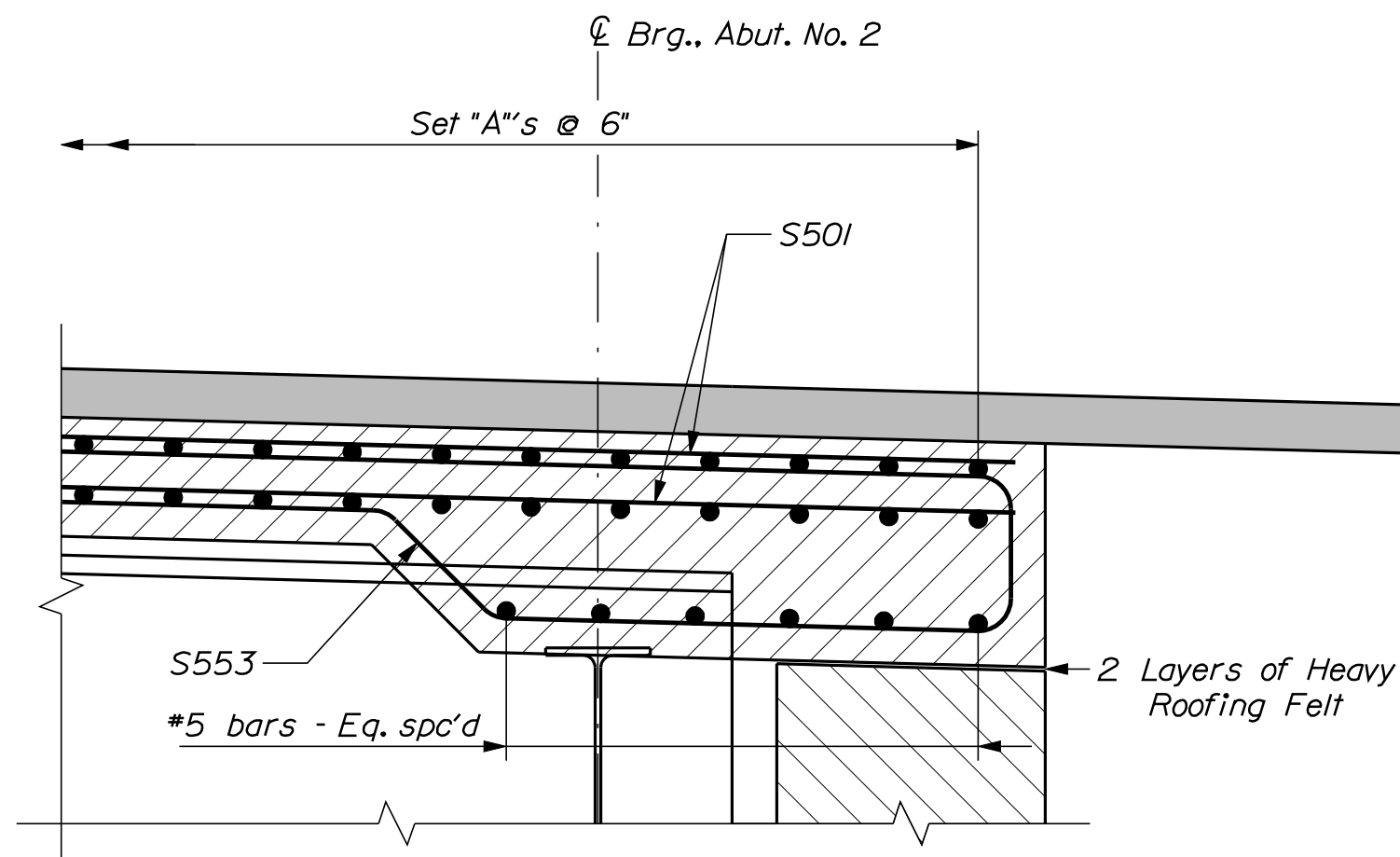
SUPERSTRUCTURE/PARAPET JOINT DETAIL
Both sides of Abutment No. 2, only



TYPICAL BRIDGE SECTION



LONGITUDINAL SECTION @ ABUTMENT NO. 1



LONGITUDINAL SECTION @ ABUTMENT NO. 2

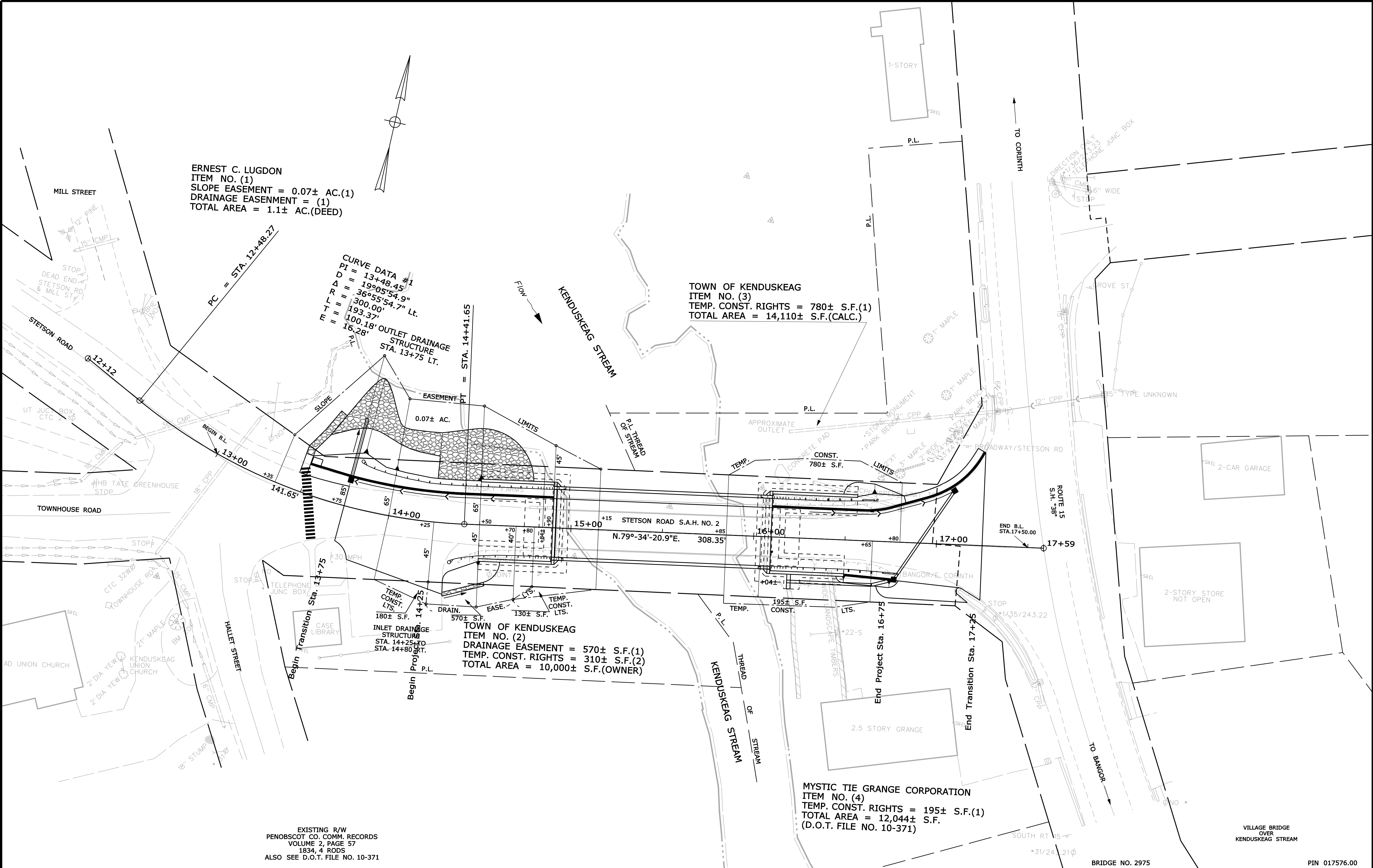
STATE OF MAINE DEPARTMENT OF TRANSPORTATION BR-1757(600)X	SIGNATURE		DATE
	P.E. NUMBER		DATE
	PIN		DATE
BRIDGE NO. 2875		17576.00	BRIDGE PLANS
VILLAGE BRIDGE KENDUSKEAG STREAM KENDUSKEAG PENOBSCOT COUNTY			
SUPERSTRUCTURE SECTIONS			
SHEET NUMBER			
25			
OF 28			

Date: 3/10/2011

Username: david.show

Division: BRIDGE

Filename: ... \00\ROW\MSTA001_RWP\PLAN1.dgn



SYMBOLS	
• P or • PIP (IRON PIPE or PIN FOUND)	○ WELL
□ S.T. (SEPTIC TANK)	--- GRADING LIMIT LINE
▢ S.T. (SEPTIC TANK)	--- CONSTRUCTION LIMIT LINE
△ BM (BENCHMARK)	--- PROPERTY LINE
△ BM (BENCHMARK)	--- PL
--- WATER LINE	--- LIMITS OF WRIGHT PORTION (LOW.P.)
--- GAS LINE	--- EXISTING RIGHT OF WAY
--- TELEPHONE LINE	--- NEW RIGHT OF WAY
--- SEWER LINE	--- NEW ROW WITHIN EXIST. ROW
	--- CONTROL OF ACCESS

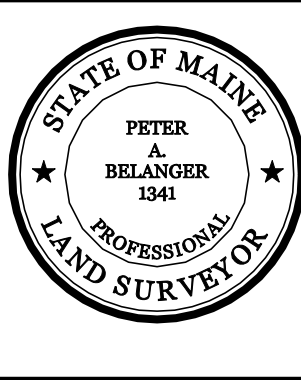
ITEM	TECH	CHECKED
BASE MAP		
EXIST. R/W	D.S.G.	
PROP. LINES	T.L.B.	
AREAS	T.L.B.	D.S.G.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
16 STATE HOUSE STATION - AUGUSTA, ME 04333-0016
KENDUSKEAG
RIGHT OF WAY MAP

NO.	DATE	REVISIONS DESCRIPTION	BY

PLAN FILED IN PLAN BOOK		PAGE	COUNTY RECORD			
NO.	GRANTOR	INSTRUMENT	DATE	BOOK	PAGE	
		COND.	3/1/11	12414	274	

DAVID A. COLE
COMMISSIONER
KENNETH L. SWEENEY
CHIEF ENGINEER
DATE



STATE AID HIGHWAY NO. 2 STETSON ROAD KENDUSKEAG FEDERAL AID PROJECT NO. BR-1757(600)X		
AUGUST 2010 SCALE 1" = 25'	RIGHT-OF-WAY MAP SHEET 1 OF 1	D.O.T. FILE NO. 10-465

SHEET NUMBER
27
OF 28

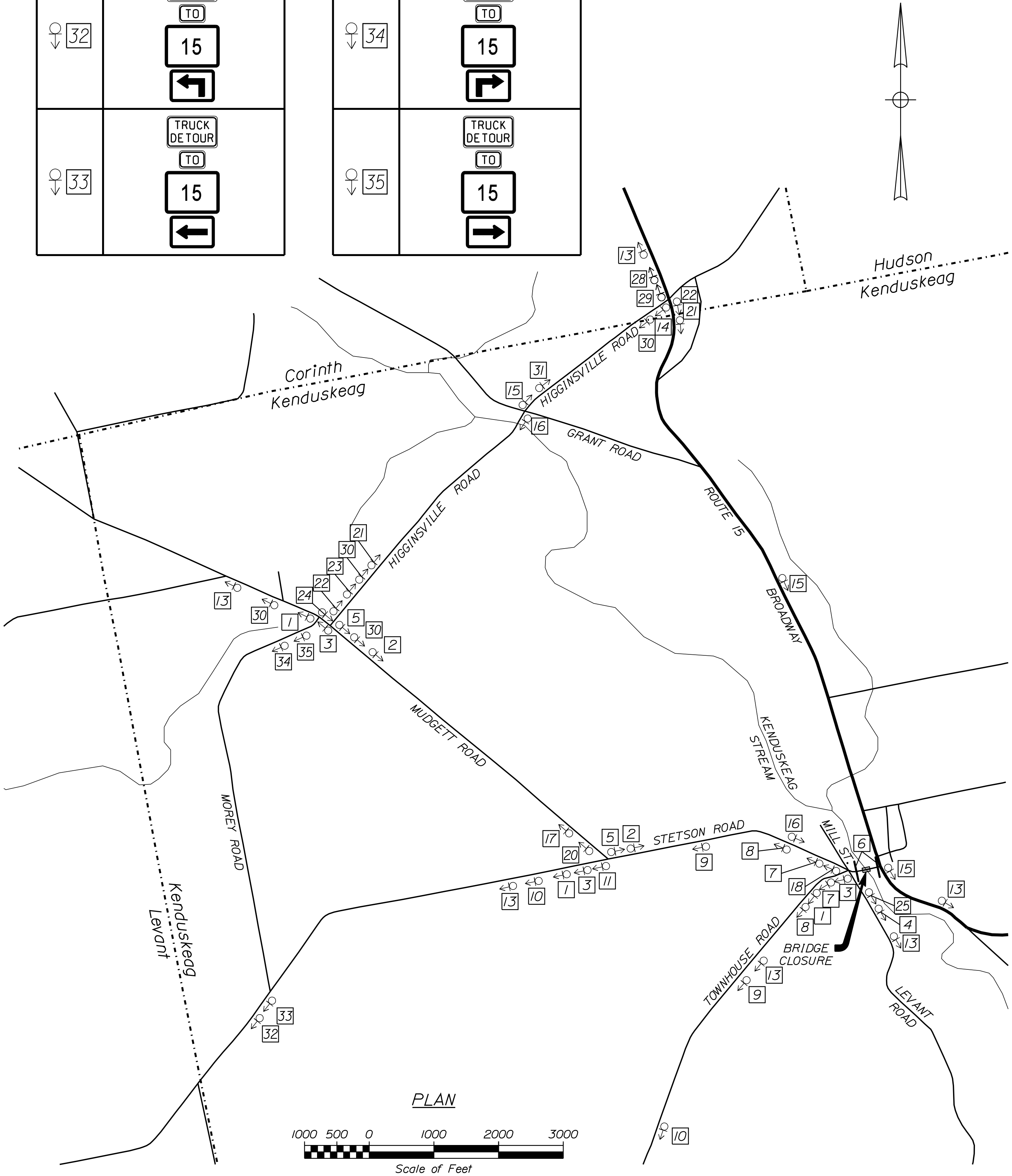
↓ 1	DETOUR TO 15 ←
↓ 2	DETOUR TO 15 →
↓ 3	DETOUR TO 15 ←
↓ 4	DETOUR TO 15 ↑
↓ 5	DETOUR TO 15 →
↓ 6	ROAD CLOSED TYPE III BARRICADES
↓ 7	ROAD CLOSED 500 FT
↓ 8	ROAD CLOSED 1000 FT
↓ 9	ROAD CLOSED 1/2 MILE
↓ 10	ROAD CLOSED 1 MILE

↓ 11	ROAD CLOSED 0.8 MILES AHEAD LOCAL TRAFFIC ONLY DETOUR
↓ 12	Removed
↓ 13	DETOUR AHEAD
↓ 14	15 ↔
↓ 15	DETOUR STETSON RD. LEVANT ROAD TOWNHOUSE RD. ↑
↓ 16	DETOUR TO 15 ↑
↓ 17	DETOUR LEVANT ROAD TOWNHOUSE RD. ←
↓ 18	END DETOUR LEVANT ROAD TOWNHOUSE RD.
↓ 19	Removed
↓ 20	END DETOUR STETSON ROAD
↓ 21	DETOUR STETSON RD. LEVANT ROAD TOWNHOUSE RD. ←
↓ 22	DETOUR STETSON RD. LEVANT ROAD TOWNHOUSE RD. ←

↓ 23	TRUCK DETOUR TO STETSON ROAD WEST OF MOREY ROAD →
↓ 24	TRUCK DETOUR TO STETSON ROAD WEST OF MOREY ROAD ←
↓ 25	DETOUR 15 ↙
↓ 26	Removed
↓ 27	Removed
↓ 28	DETOUR STETSON RD. LEVANT ROAD TOWNHOUSE RD. →
↓ 29	DETOUR STETSON RD. LEVANT ROAD TOWNHOUSE RD. →
↓ 30	WIDE TURNING TRUCKS
↓ 31	STOP AHEAD

↓ 32	TRUCK DETOUR TO 15 ←
↓ 33	TRUCK DETOUR TO 15 ←

↓ 34	TRUCK DETOUR TO 15 →
↓ 35	TRUCK DETOUR TO 15 →



STATE OF MAINE DEPARTMENT OF TRANSPORTATION	SIGNATURE			
	P.E. NUMBER			
	DATE			
BR-1757(600)X		PIN		BRIDGE PLANS
BRIDGE NO. 2875		17576.00		
VILLAGE BRIDGE KENDUSKEAG STREAM KENDUSKEAG		PENOBSCOT COUNTY		
TRAFFIC CONTROL PLAN		SHEET NUMBER		
		28		
		OF 28		