

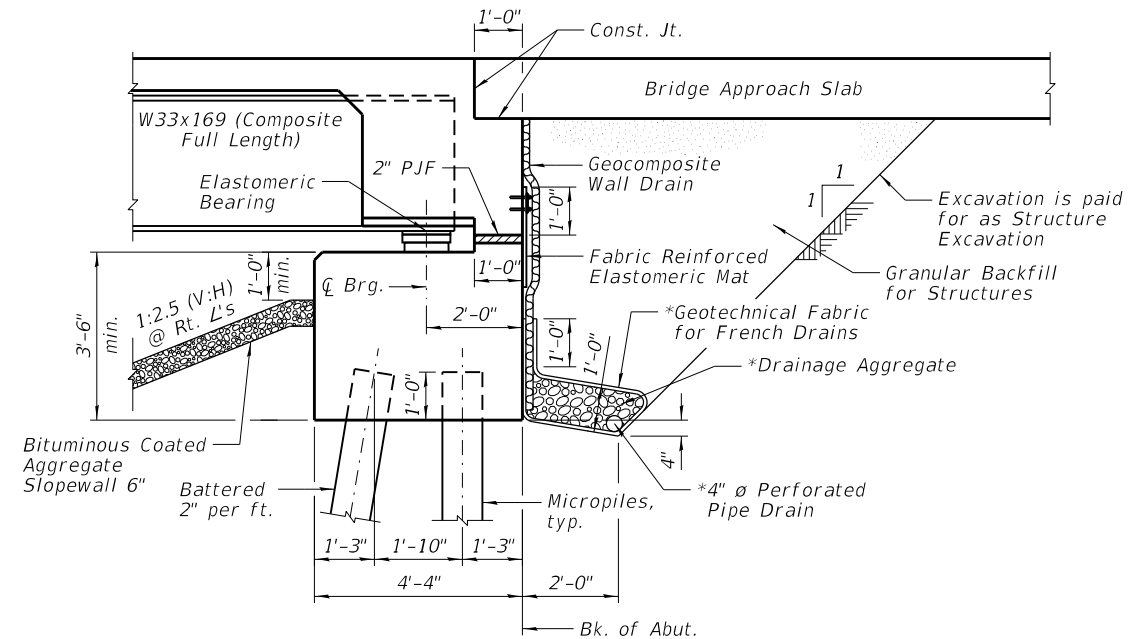
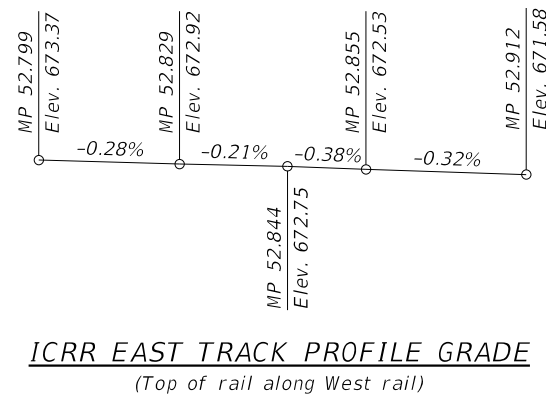
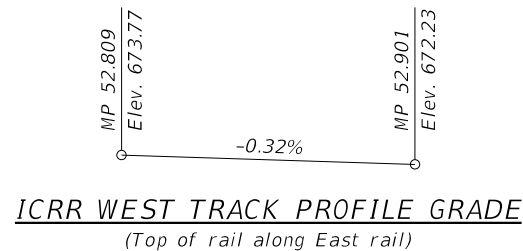
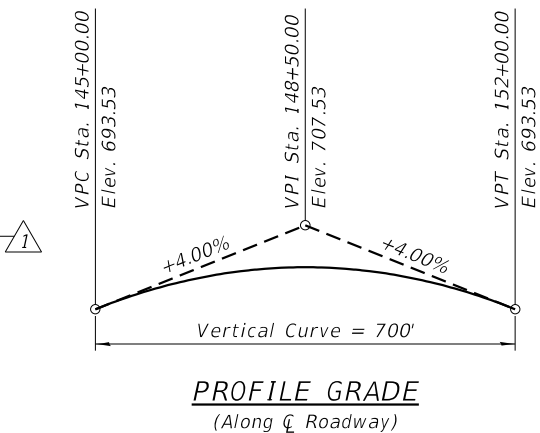
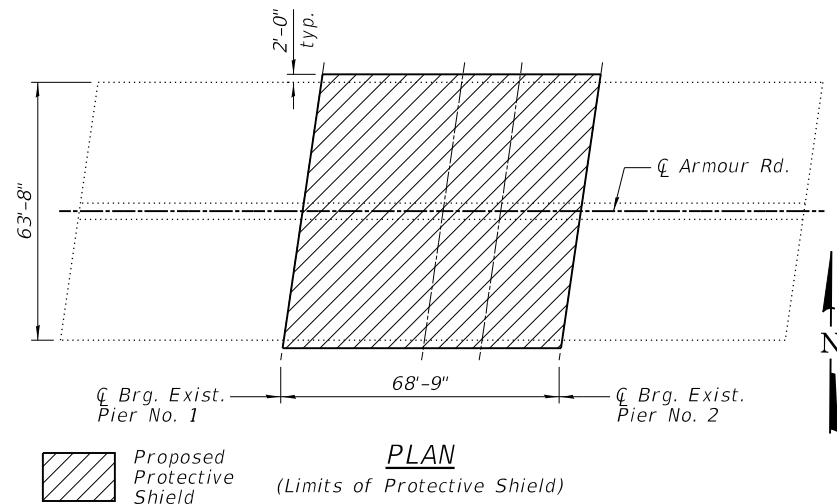
				CONSTRUCTION CODE		
				80% FED 20% STATE	80% FED 20% STATE	100% VILLAGE
				ROADWAY	BRIDGE	TRAFFIC SIGNALS LIGHTING, SIDEWALK
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0004	0010	0021
				URBAN	URBAN	URBAN
50157300	PROTECTIVE SHIELD	SQ YD	517		517	
50200100	STRUCTURE EXCAVATION	CU YD	230		230	
50300225	CONCRETE STRUCTURES	CU YD	262.7		262.7	
50300255	CONCRETE SUPERSTRUCTURE	CU YD	492		492	
50300260	BRIDGE DECK GROOVING	SQ YD	1,776		1776	
50300300	PROTECTIVE COAT	SQ YD	2,287		2287	
50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	201		201	
50500105	FURNISHING AND ERECTING STRUCTURAL STEEL	L SUM	1		1	
50500505	STUD SHEAR CONNECTORS	EACH	9,468		9468	
50800105	REINFORCEMENT BARS	POUND	15,720		15720	
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	206,540		206540	
50800515	BAR SPLICERS	EACH	973		973	
50901720	BICYCLE RAILING	FOOT	1,450	1192	258	
51100100	SLOPE WALL 4 INCH	SQ YD	114		114	
51500100	NAME PLATES	EACH	1		1	

				CONSTRUCTION CODE		
				80% FED 20% STATE	80% FED 20% STATE	100% VILLAGE
				ROADWAY	BRIDGE	TRAFFIC SIGNALS LIGHTING, SIDEWALK
				0004	0010	0021
				URBAN	URBAN	URBAN
CODE NO.	ITEM	UNIT	TOTAL QUANTITY			
						1
X0323432	MICROPILE LOAD TEST	EACH	1		1	
X0323433	MICROPILE PROOF LOAD TEST	EACH	2		2	
X0326649	LINEAR DELINEATOR PANELS, 6 INCH	EACH	6	6		
X0327301	RELOCATE EXISTING MAILBOX	EACH	1	1		
X0327809	LINEAR DELINEATOR PANELS, 4 INCH	EACH	24	24		
78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	566	566		
X0900020	THERMAL INTEGRITY PROFILE TESTING	EACH	14		14	
X0900044	THERMAL INTEGRITY PROFILE DATA COLLECTION	FOOT	325		325	
X4020700	AGGREGATE SURFACE COURSE, TYPE B 8"	SQ YD	84	84		
X4021000	TEMPORARY ACCESS (PRIVATE ENTRANCE)	EACH	2	2		
X4022000	TEMPORARY ACCESS (COMMERCIAL ENTRANCE)	EACH	1	1		
X4024000	TEMPORARY ACCESS (FIELD ENTRANCE)	EACH	1	1		
X4240100	PORTLAND CEMENT CONCRETE SIDEWALK (SPECIAL) WITH RETAINING WALL	SQ FT	8,292	8292		
X4402020	CONCRETE MEDIAN SURFACE REMOVAL	SQ FT	1,112	1112		
X5537800	STORM SEWERS TO BE CLEANED, 12"	FOOT	228	228		

ITEM	UNIT	SUPER	SUB	TOTAL
Removal of Existing Structures	Each	1		1
Protective Shield	Sq. Yd.	517		517
Structure Excavation	Cu. Yd.		230	230
Concrete Structures	Cu. Yd.	44.8	217.9	262.7
Concrete Superstructure	Cu. Yd.	492.0		492.0
Bridge Deck Grooving	Sq. Yd.	1,776		1,776
Protective Coat	Sq. Yd.	2,287		2,287
Concrete Superstructure (Approach Slab)	Cu. Yd.	201.2		201.2
Furnishing and Erecting Structural Steel	L Sum	1		1
Stud Shear Connectors	Each	9,468		9,468
Reinforcement Bars	Pound		15,720	15,720
Reinforcement Bars, Epoxy Coated	Pound	173,940	32,730	206,670
Bar Splicers	Each	915	58	973
Bicycle Railing	Foot	258		258
Slope Wall 4 Inch	Sq. Yd.		114	114
Name Plates	Each	1		1
Drilled Shaft in Soil	Cu. Yd.		40.9	40.9
Drilled Shaft in Rock	Cu. Yd.		30.6	30.6
Elastomeric Bearing Assembly, Typ I	Each		24	24
Anchor Bolts, 1"	Each		96	96
Temporary Soil Retention System	Sq. Ft.		390	390
Geocomposite Wall Drain	Sq. Yd.		123	123
Micro-Piles	Each		32	32
Micropile Load Test	Each		1	1
Micropile Proof Load Test	Each		2	2
Thermal Integrity Profile Testing	Each		14	14
Thermal Integrity Profile Data Collection	Foot		325	325
Granular Backfill for Structures	Cu. Yd.		210	210
Drainage Scuppers, DS-11	Each	8		8
Pipe Underdrains for Structures 4"	Foot		250	250
Bituminous Coated Aggregate Slopewall 6"	Sq. Yd.		1,204	1,204

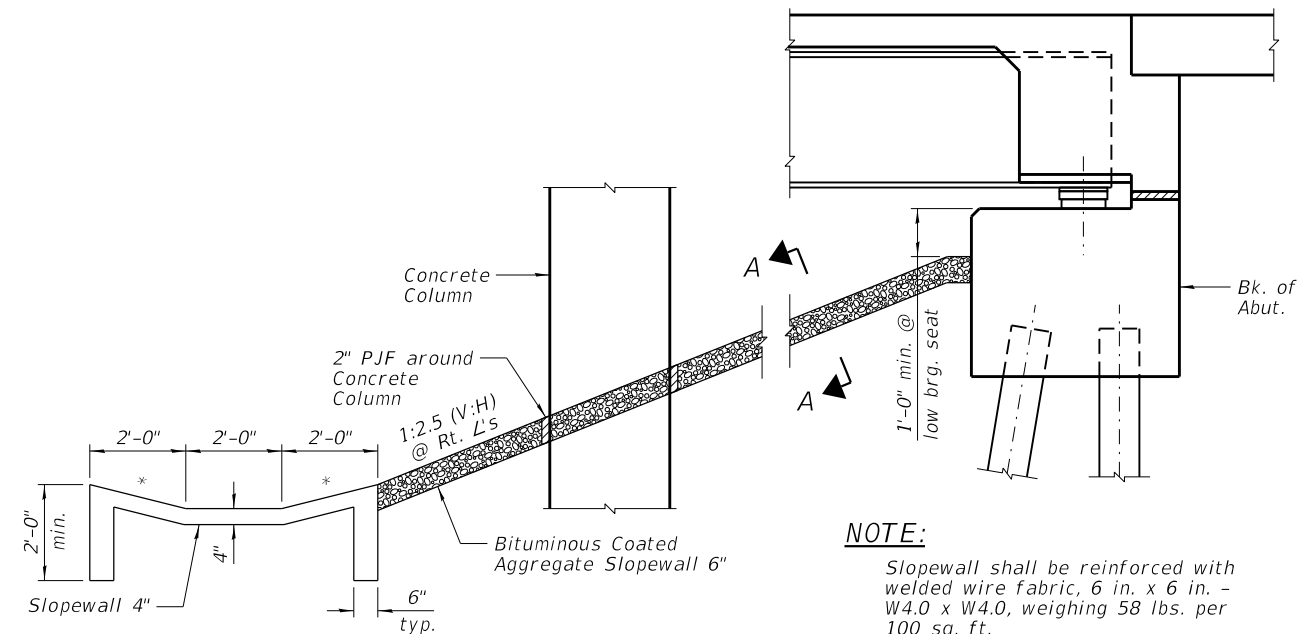
- 1.) Fasteners shall be ASTM F3125 Grade A325 Type 1, mechanically galvanized bolts in painted or metalized areas and ASTM F3125 Grade A325 Type 3 weathering steel bolts in unpainted areas. Bolts 7/8 in. ϕ , holes 15/16 in. ϕ , unless otherwise noted.
- 2.) Calculated weight of Structural Steel = 471,180 lbs.
- 3.) All structural steel shall be AASHTO M 270 Grade 50W except bearings, which shall be AASHTO M270 Grade 50.
- 4.) No field welding is permitted except as specified in the contract documents.
- 5.) Reinforcement bars designated (E) shall be epoxy coated.
- 6.) Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of 1/8 in. (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.
- 7.) The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.
- 8.) Structural steel shall be painted for a distance equal to the depth of embedment into the concrete diaphragm plus 18 inches. Painted areas shall be primed in the shop with a Department-approved zinc rich primer. Field painting will not be required.
- 9.) Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
- 10.) The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.
- 11.) Bridge Deck Grooving shall not be applied on the sidewalk.

NAME PLATE
See Std. 515001



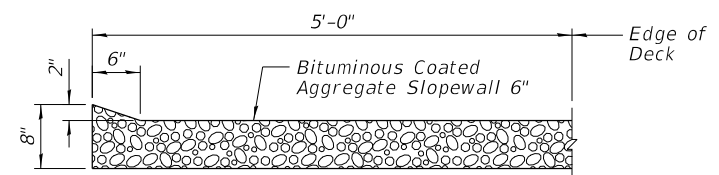
NOTES:

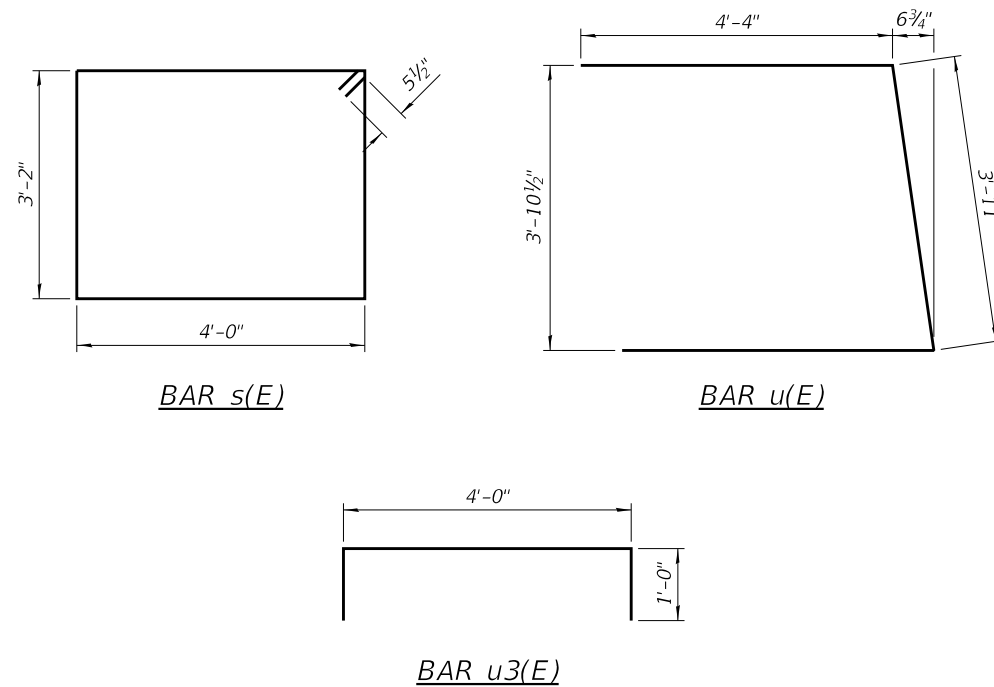
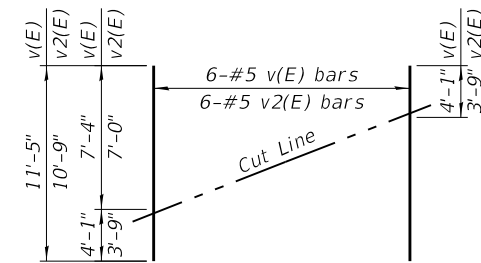
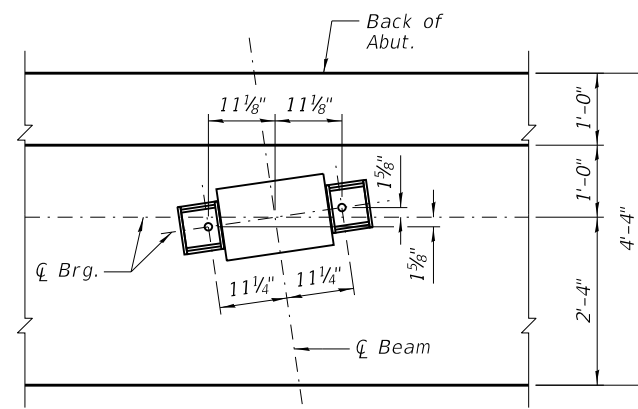
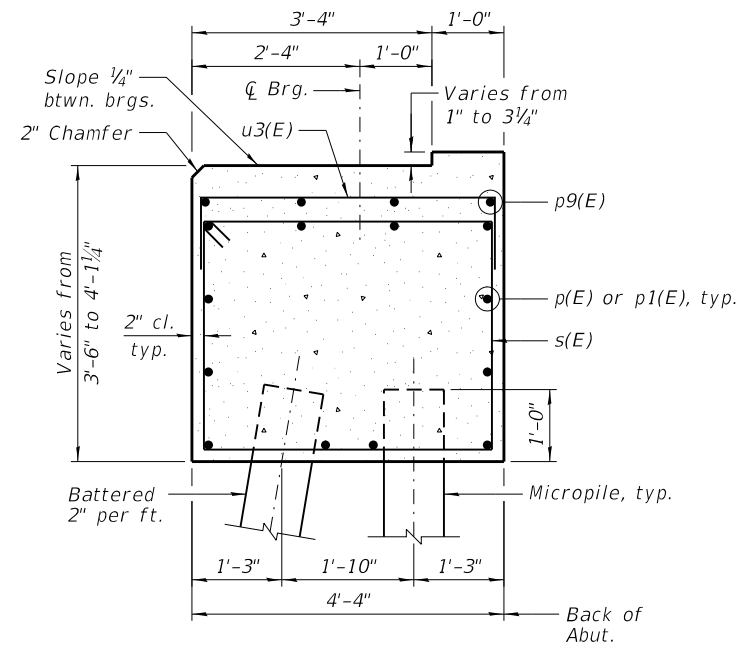
- 1.) *Included in the cost of Pipe Underdrains for Structures (see Special Provisions).
- 2.) All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).



NOTE:

Sloped wall shall be reinforced with welded wire fabric, 6 in. x 6 in. - W4.0 x W4.0, weighing 58 lbs. per 100 sq. ft.



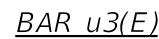
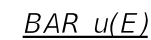
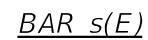
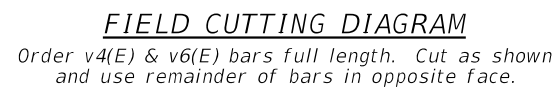


WEST ABUTMENT BILL OF MATERIAL

Bar	No.	Size	Length	Shape
<i>h(E)</i>	24	#6	14'-0"	————
<i>h1(E)</i>	20	#5	9'-8"	————
<i>p(E)</i>	12	#7	30'-4"	————
<i>p1(E)</i>	12	#7	42'-6"	————
<i>p9(E)</i>	8	#4	17'-11"	————
<i>s(E)</i>	67	#5	15'-3"	□
<i>u(E)</i>	8	#6	12'-7"	⌋
<i>u3(E)</i>	36	#4	6'-0"	⌋
<i>v(E)</i>	12	#5	11'-6"	————
<i>v1(E)</i>	2	#5	7'-4"	————
<i>v2(E)</i>	12	#5	10'-9"	————
<i>v3(E)</i>	2	#5	7'-0"	————
Item			Unit	Quantity
<i>Structure Excavation</i>			<i>Cu. Yd.</i>	<i>114</i>
<i>Concrete Structures</i>			<i>Cu. Yd.</i>	<i>50.9</i>
<i>Reinforcement Bars, Epoxy Coated</i>			<i>Pound</i>	<i>4,260</i>
<i>Geocomposite Wall Drain</i>			<i>Sq. Yd.</i>	<i>63</i>
<i>Micro-Piles</i>			<i>Each</i>	<i>16</i>
<i>Micro-Pile Load Test</i>			<i>Each</i>	<i>1</i>
<i>Micro-Pile Proof Load Test</i>			<i>Each</i>	<i>1</i>
<i>Granular Backfill for Structures</i>			<i>Cu. Yd.</i>	<i>105</i>
<i>Pipe Underdrains for Structures 4"</i>			<i>Foot</i>	<i>125</i>

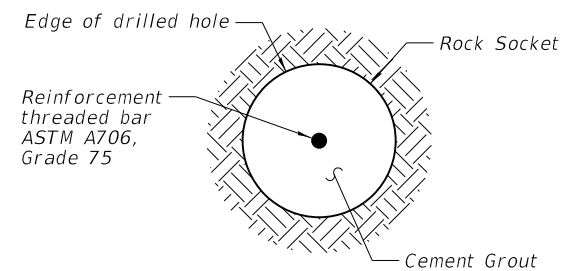
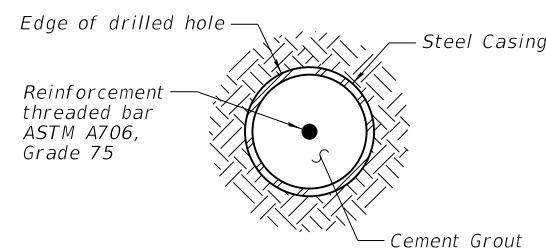
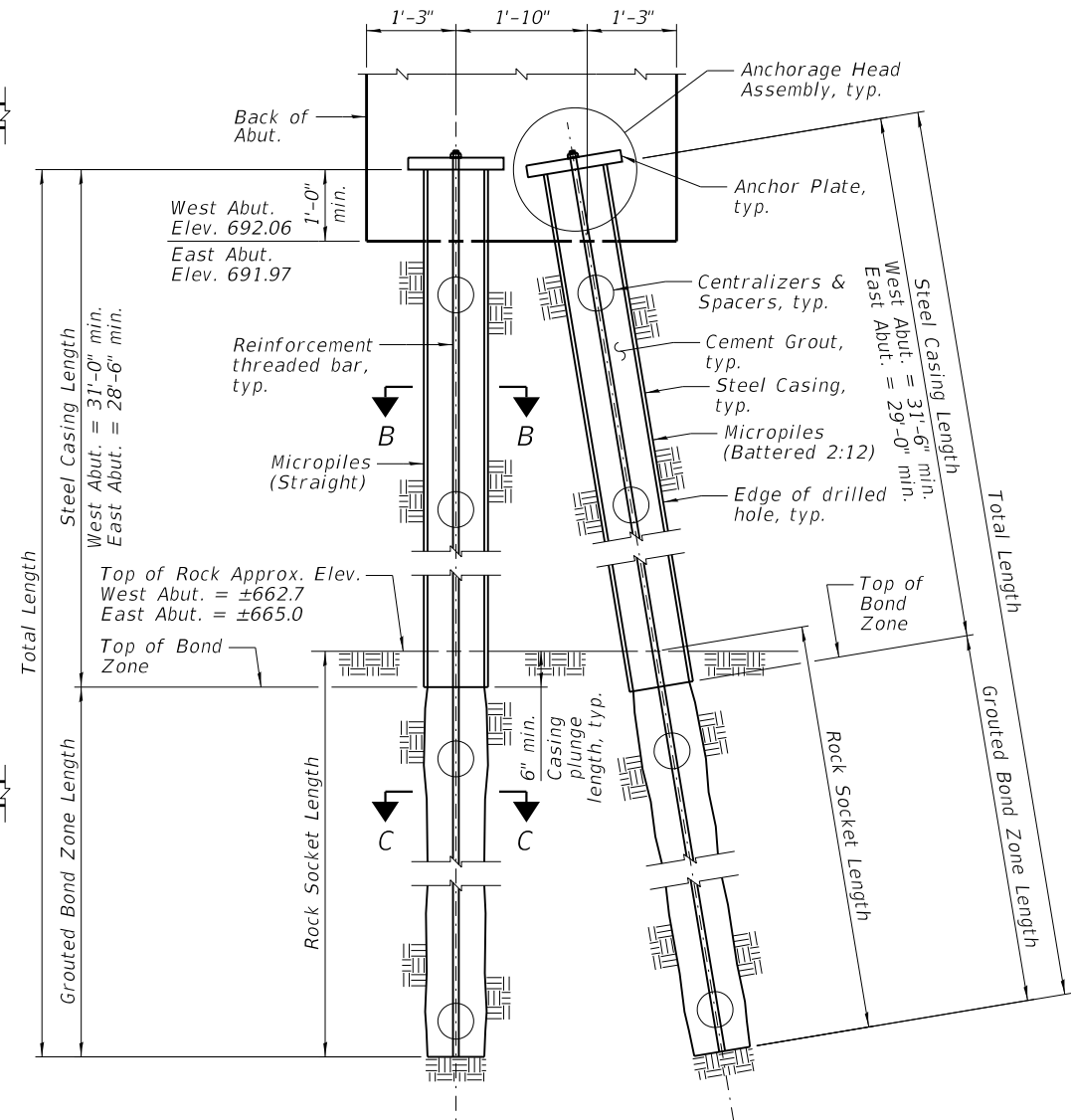
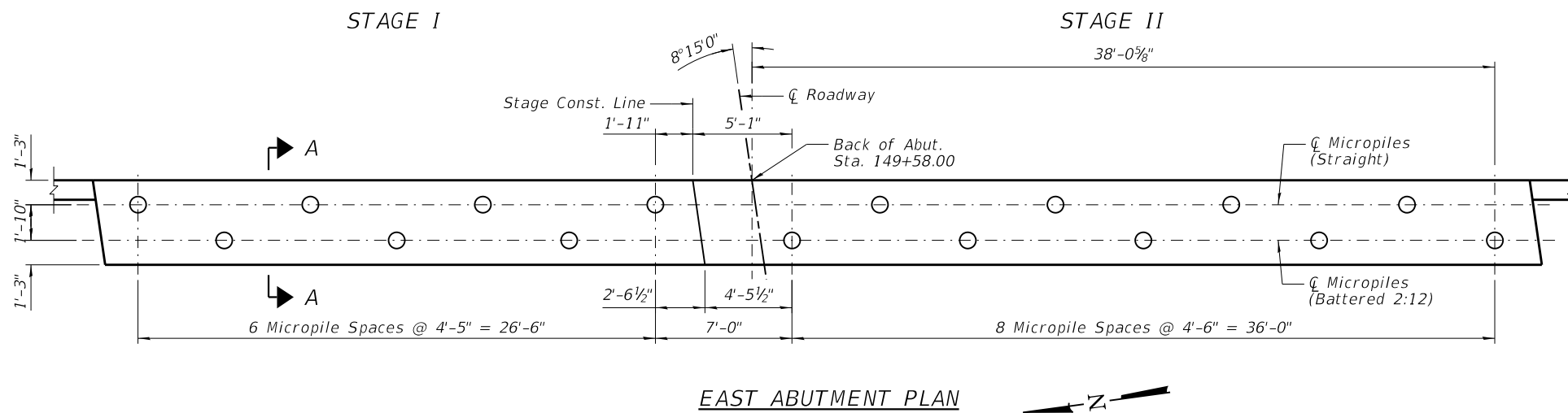
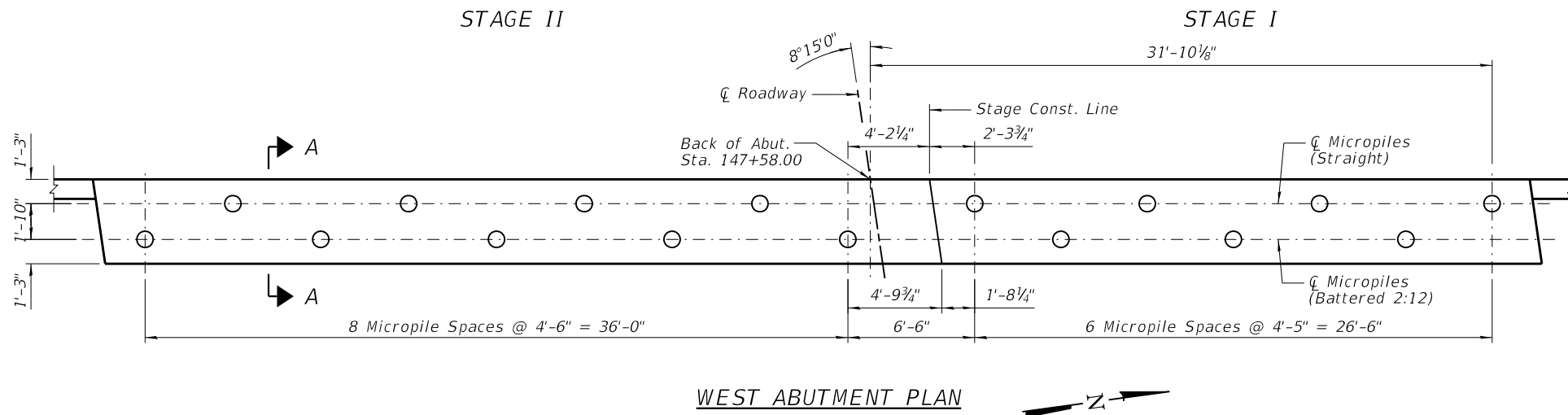
NOTES:

- 1.) See Sheet 25 of 42 for Bearing Details.
2.) See Sheet 34 of 42 for Micropile Details.



Bar	No.	Size	Length	Shape
<i>h(E)</i>	24	#6	14'-0"	————
<i>h1(E)</i>	20	#5	9'-8"	————
<i>p(E)</i>	12	#7	30'-4"	————
<i>p1(E)</i>	12	#7	42'-6"	————
<i>p10(E)</i>	4	#7	5'-10"	————
<i>p11(E)</i>	4	#4	17'-8"	————
<i>s(E)</i>	67	#5	15'-3"	□
<i>u(E)</i>	8	#6	12'-7"	┘
<i>u3(E)</i>	24	#4	6'-0"	┘
<i>v4(E)</i>	12	#5	10'-10"	————
<i>v5(E)</i>	2	#5	7'-0"	————
<i>v6(E)</i>	12	#5	11'-1"	————
<i>v7(E)</i>	2	#5	6'-10"	————
Item			Unit	Quantity
Structure Excavation			Cu. Yd.	116
Concrete Structures			Cu. Yd.	48.3
Reinforcement Bars, Epoxy Coated			Pound	4,180
Geocomposite Wall Drain			Sq. Yd.	60
Micro-Piles			Each	16
Micro-Pile Proof Load Test			Each	1
Granular Backfill for Structures			Cu. Yd.	105
Pipe Underdrains for Structures 4"			Foot	125

- 1.) See Sheet 25 of 42 for Bearing Details.
- 2.) See Sheet 34 of 42 for Micropile Details.



NOTES:

- 1.) See Special Provision "Micropiles".
- 2.) 180k maximum compression design load.
- 3.) Tension tests will be allowed for the Micro-Pile Proof Load Test and for the Micro-Pile Load test.