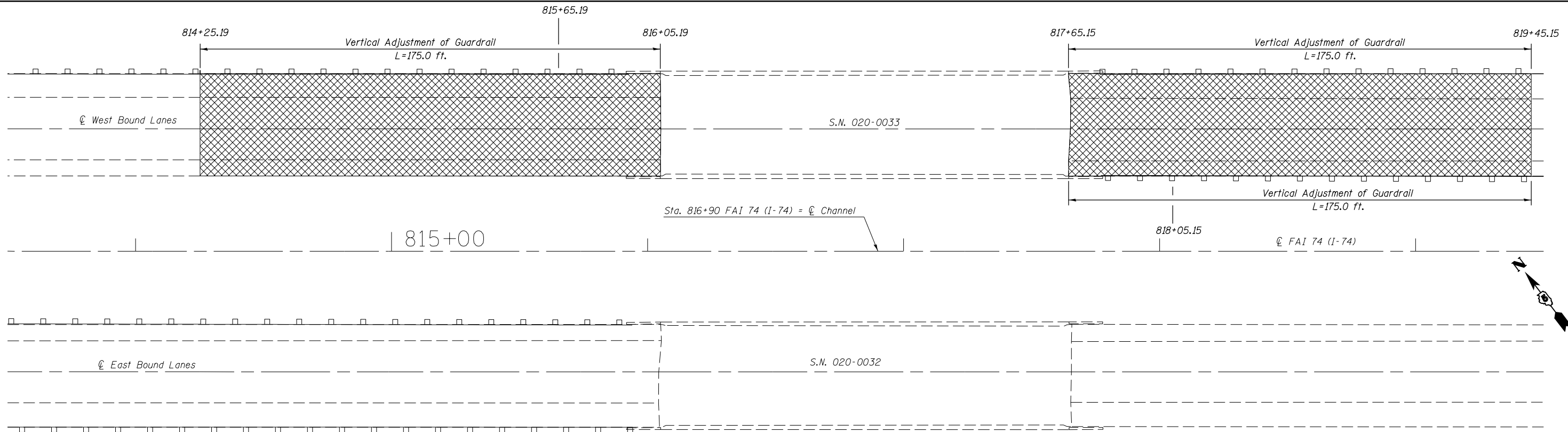


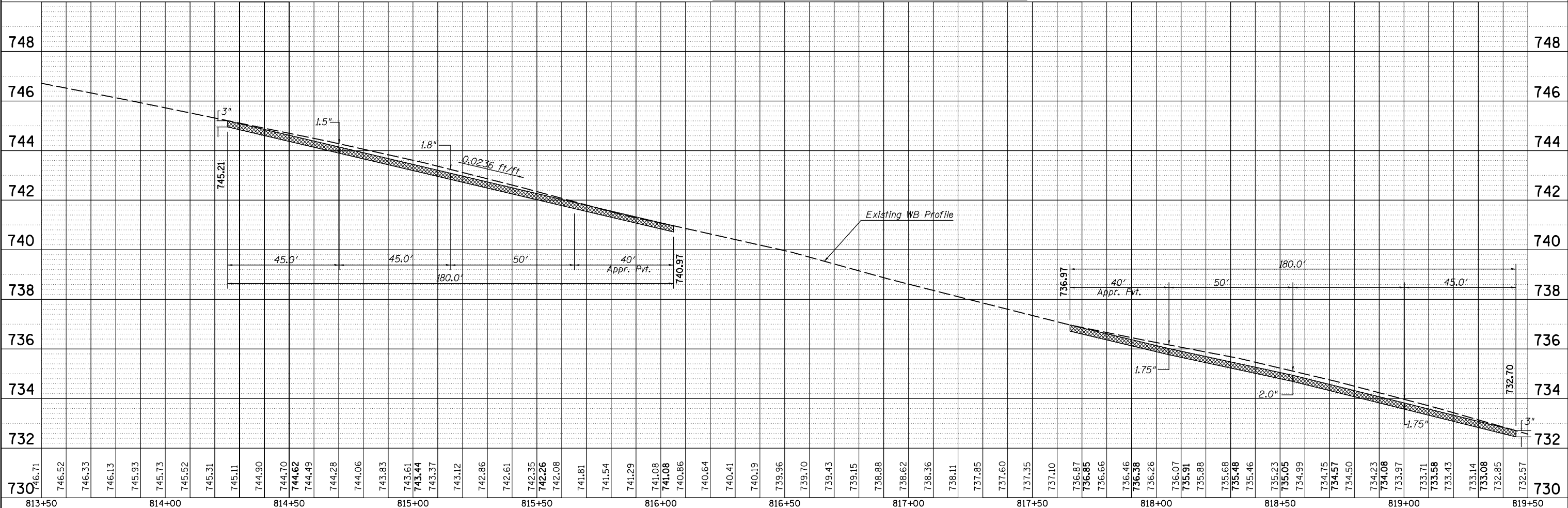
PLAN	SURVEYED	DATE
	PLOTTED	BY
	ALIGNED	
	CHECKED	
	FILED	
	CARD FILE NAME	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NO.	



IF REQUIRED AND AT THE RESIDENT ENGINEER'S DISCRETION, GRADING AND SHAPING OF THE AGGREGATE SHOULDER AND EMBANKMENT TO PROVIDE POSITIVE ROADWAY DRAINAGE IN THE PROFILE GRADE CORRECTION AREAS SHALL BE PAID FOR PER ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.

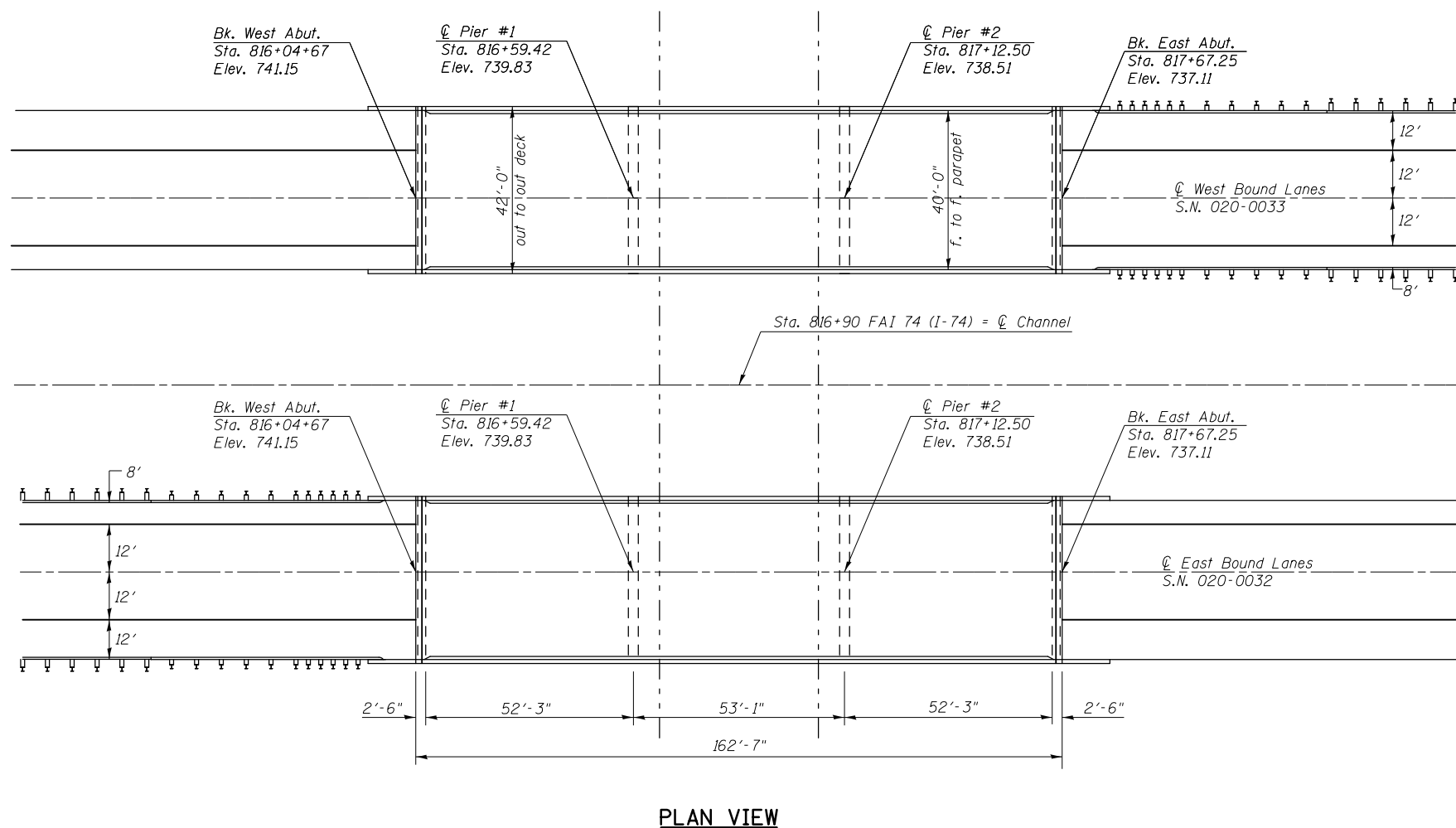
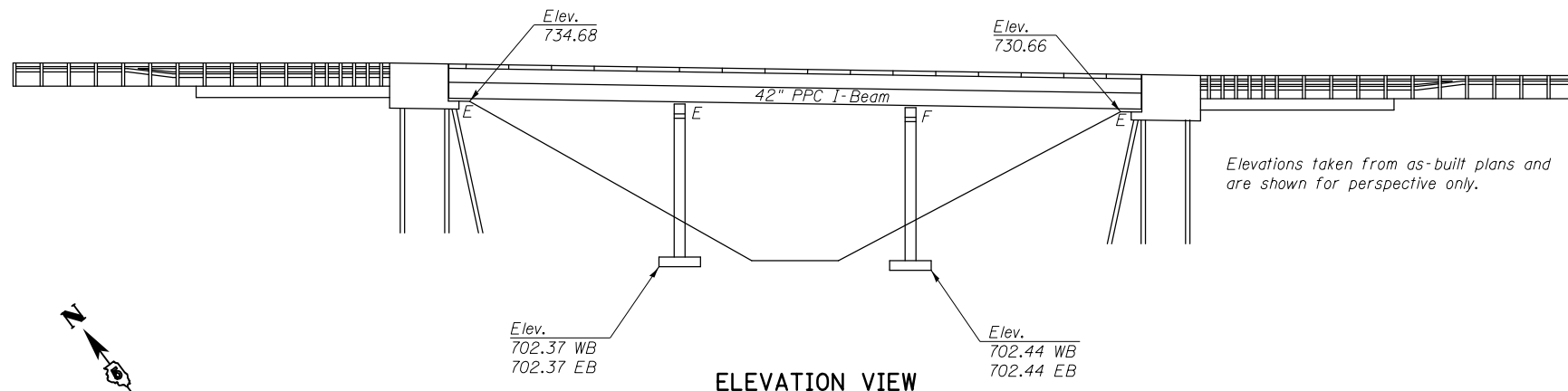
SEE DETAIL FOR MILLING TRANSITION AT STRUCTURES



FILE NAME =	USER NAME = brandenburgtj	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MILLING TRANSITION S.N. 020-0033 (WB)	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		CHECKED -	REVISED -			74	.		166	101	
		DATE -	REVISED -			CONTRACT NO. 90876					
						ILLINOIS FED. AID PROJECT					

The existing structures were built in 1970 as Route FAI-74, Section 20-1B at Sta. 816+90 in DeWitt County. The structures carry I-74 over the Tributary to Salt Creek north of Farmer City. In 1975 a waterproofing membrane and HMA wearing surface was placed under Section D5 Bridge Deck Waterproofing 1975-3, Contract 29686. In 2004 the HMA wearing surface was removed and replaced with Section 74(3RS-2, 4-1-RS-1), Contract 70027. In 2008 the District 5 Bridge Crew made repairs to SN 020-0033 consisting of spot hatch block replacements and joint replacements at the east abutment. In 2010 the District 5 Bridge Crew made repairs to SN 020-0032, consisting of hatch block replacements and driving lane wearing surface replacement.

The superstructure consists of six 42" Precast Prestressed Concrete I-Beams supporting a 7 1/2" R.C. deck and 1 3/4" HMA wearing surface with waterproofing membrane system. The substructure consists of concrete pile supported stub abutments and concrete pile supported piers. The structures measure 162'-7" bk. to bk. abutments and 42'-0" out to out of deck. The horizontal clearance is 38'-6" from face to face of hub guard. The spans measure 52'-3", 53'-1", and 52'-3".



PROPOSED WORK

1. Remove Existing Waterproofing Membrane System and H.M.A. Wearing Surface.
2. Mill Existing H.M.A. Wearing Surface at Milling Transition Locations at ends of Structures.
3. Perform Bridge Deck Scarification on Bridge Deck and Approach Slabs.
4. Partial Removal of Deck Ends, Parapets, and Removal of Hatch Block.
5. Removal of Existing Joints.
6. Perform Full-Depth Patching.
7. Place New Floor Drains in Deck.
8. Replace Existing Bearings with Elastomeric Bearings at Abutments.
9. Place Reinforcement Bars, Locking Edge Rail, and Studs.
10. Pour Deck Ends and Hatch Block.
11. Insert Rubber Strip Seal into Locking Edge Rails.
12. Pour Parapet Ends.
13. Place Latex Concrete Overlay on Bridge Deck and Approach Slabs.
14. Place HMA Overlay on Approach Pavements and Milling Transition.

BILL OF MATERIALS

ITEM	UNIT	TOTAL
HOT-MIX ASPHALT SURFACE REMOVAL (ASBESTOS)	SQ YD	1,348.0
BRIDGE DECK SCARIFICATION, 3/4"	SQ YD	1,776.0
BRIDGE DECK LATEX CONCRETE OVERLAY, 2 1/2"	SQ YD	1,776.0
BRIDGE DECK GROOVING	SQ YD	1,722.0
PROTECTIVE COAT	SQ YD	42.0
DECK SLAB REPAIR (FULL DEPTH, TYPE 1)	SQ YD	38.0
CONCRETE REMOVAL	CU YD	15.2
BAR SPLICERS	EACH	28.0
REINFORCEMENT BARS, EPOXY COATED	POUND	2,040.0
CONCRETE SUPERSTRUCTURE	CU YD	15.2
PREFORMED JOINT STRIP SEAL	FOOT	176.0
FLOOR DRAINS	EACH	36.0
STRUCTURAL REPAIR OF CONCRETE (DEPTH < or = 5 INCHES)	SQ FT	54.0
POLYMER MODIFIED PORTLAND CEMENT MORTAR	SQ FT	42.0
PUMBLE CONCRETE MIX	CU FT	6.0
POLYMERIZED LEVELING BINDER (MACHINE METHOD), N105	TON	126.0
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N105	TON	126.0
HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	3,200.0
VERTICAL ADJUSTMENT OF GUARDRAIL	FOOT	875.0

GENERAL NOTES

The deck ends and hatch blocks shall have its final surface tined according to Article 420.09 (e) (1) of the Standard Specifications. Cost to be included with concrete superstructure.

Plan dimensions and details relative to the existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make the necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of work. However, the Contractor will be paid for the quantity actually furnished at the unit price for the work.

The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.

Reinforcement bars designated (E) shall be epoxy coated.

Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose or potentially detrimental foreign material shall be removed from the surface in contact with concrete. Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be included in the pay item covering removal of the existing concrete.

Existing structural steel that will be in contact with new structural steel shall be cleaned and painted prior to erection as required by the Special Provision "Cleaning and Painting Contact Surface Areas of Existing Steel Structures".

Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.

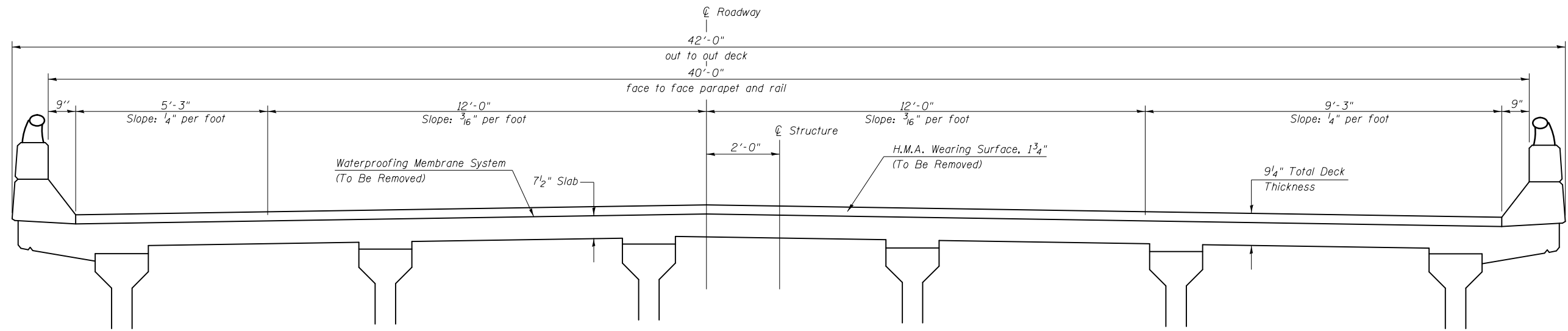
Joint openings shall be adjusted according to article 520.04 of the Std. Specs. when the deck is poured at an ambient temperature other than 50* F.

Existing S.N. 020-0032 (E.B.) & 0033 (W.B.) have been determined through testing to involve asbestos in the HMA Wearing Surface and/or Waterproofing Membrane. Recurring Special Provision, Check Sheet No. 7, Asbestos Waterproofing Membrane and Asbestos Hot-Mix Asphalt Surface Removal shall be used for the removal and disposal of this material.

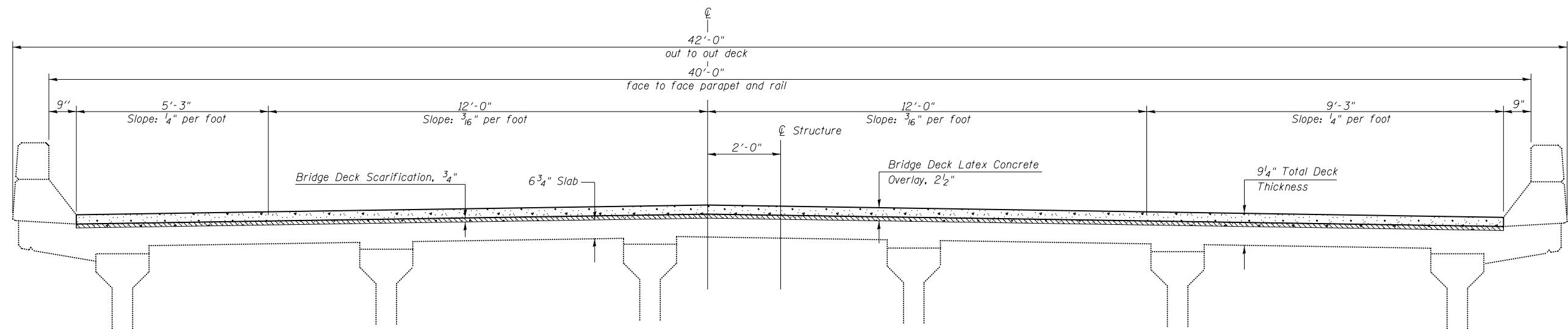
•20-1(HVB,HB-1,VB-1,B,B-1)I

FILE NAME =	USER NAME = brandenburgtj	DESIGNED <i>RTC</i>	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL PLAN AND ELEVATION			F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\IL\084EBIDINTEG.illinois.gov\PIWIDOT\Documents\DOT Offices\District 5\Projects\0504\Bridges\020-0032\020-0032-Details.sht	DRAWN <i>WJG</i>	CHECKED <i>TJB</i>	REVISED -		74	*	DEWITT	166	102			
PLOT SCALE = 40.0000' / in.	DATE <i>11/29/2011</i>	REVISIONS	REVISED - <i>TJB</i>		CONTRACT NO. 90876							
PLOT DATE = 10/13/2015	DATE <i>11/29/2011</i>	REVISED - <i>9/8/2015</i>	REVISED -		ILLINOIS FED. AID PROJECT							
SCALE:					SHEET 1	OF 23 SHEETS	STA.	TO STA.				

EXISTING CROSS SECTION S.N. 020-0032 (EB) & S.N. 020-0033 (WB)



PROPOSED CROSS SECTION S.N. 020-0032 (EB) & S.N. 020-0033 (WB)



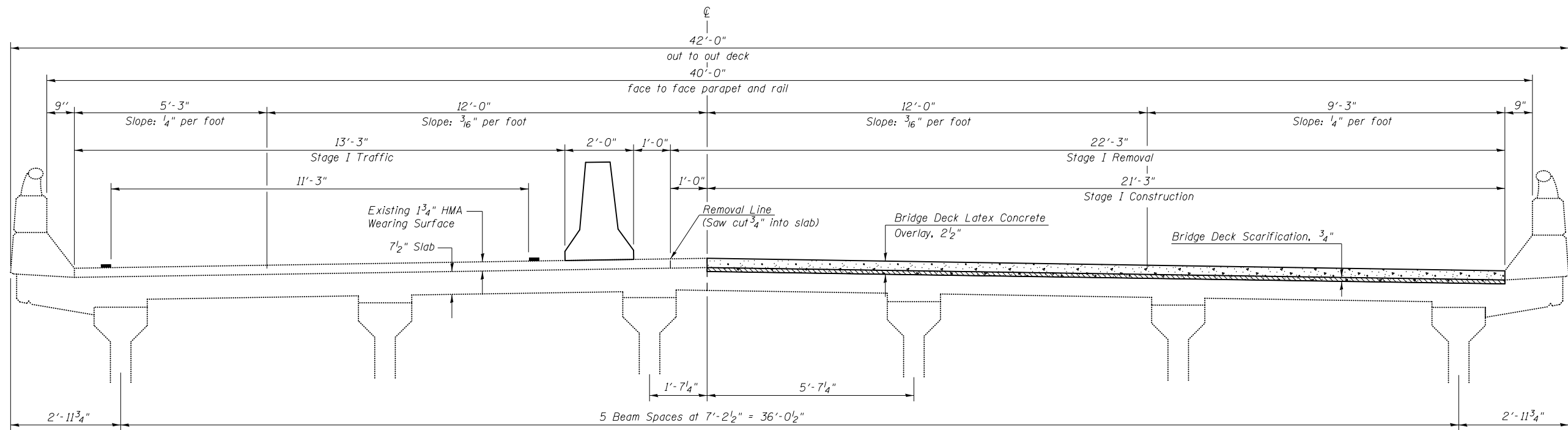
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FILE NAME =	USER NAME = brandenburgtj	DESIGNED <i>RTC</i>	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING AND PROPOSED TYPICAL CROSS SECTIONS S.N. 020-0032 (EB) & S.N. 020-0033 (WB)	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
pw:\IL\084EBIDINTEG.illinois.gov\PI\DOT\Documents\DOT Offices\District 5\Projects\0504\Drawings\084EBID\084EBID-Details.sht		DRAWN <i>TJB</i>	REVISED -			74	*	DEWITT	166	103	
PLOT SCALE = 40.0000' / in.	CHECKED <i>TJB</i>	REVISOR	REVISED - <i>TJB</i>			CONTRACT NO. 90876					
PLOT DATE = 10/13/2015	DATE <i>11/29/2011</i>	REVISOR	REVISED - 9/8/2015			ILLINOIS FED. AID PROJECT					
				SCALE:							
				SHEET 2 OF 23 SHEETS							
				STA. TO STA.							

STAGE I CONSTRUCTION DETAILS

S.N. 020-0032 (EB) & S.N. 020-0033 (WB)

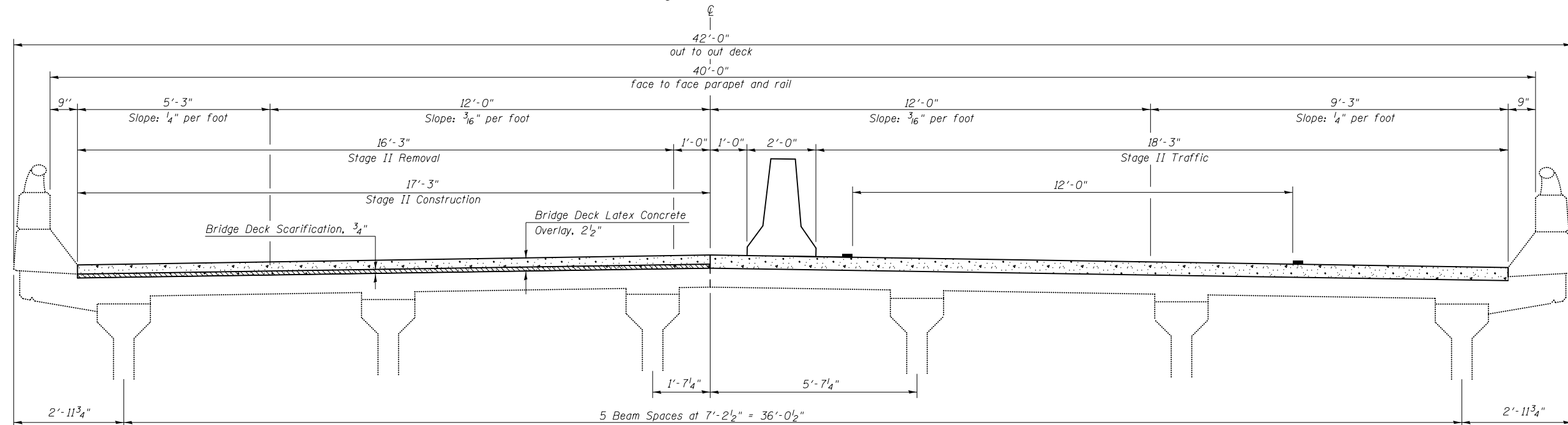
Looking East on East Bound Structure
Looking West on West Bound Structure



STAGE II CONSTRUCTION DETAILS

S.N. 020-0032 (EB) & S.N. 020-0033 (WB)

Looking East on East Bound Structure
Looking West on West Bound Structure



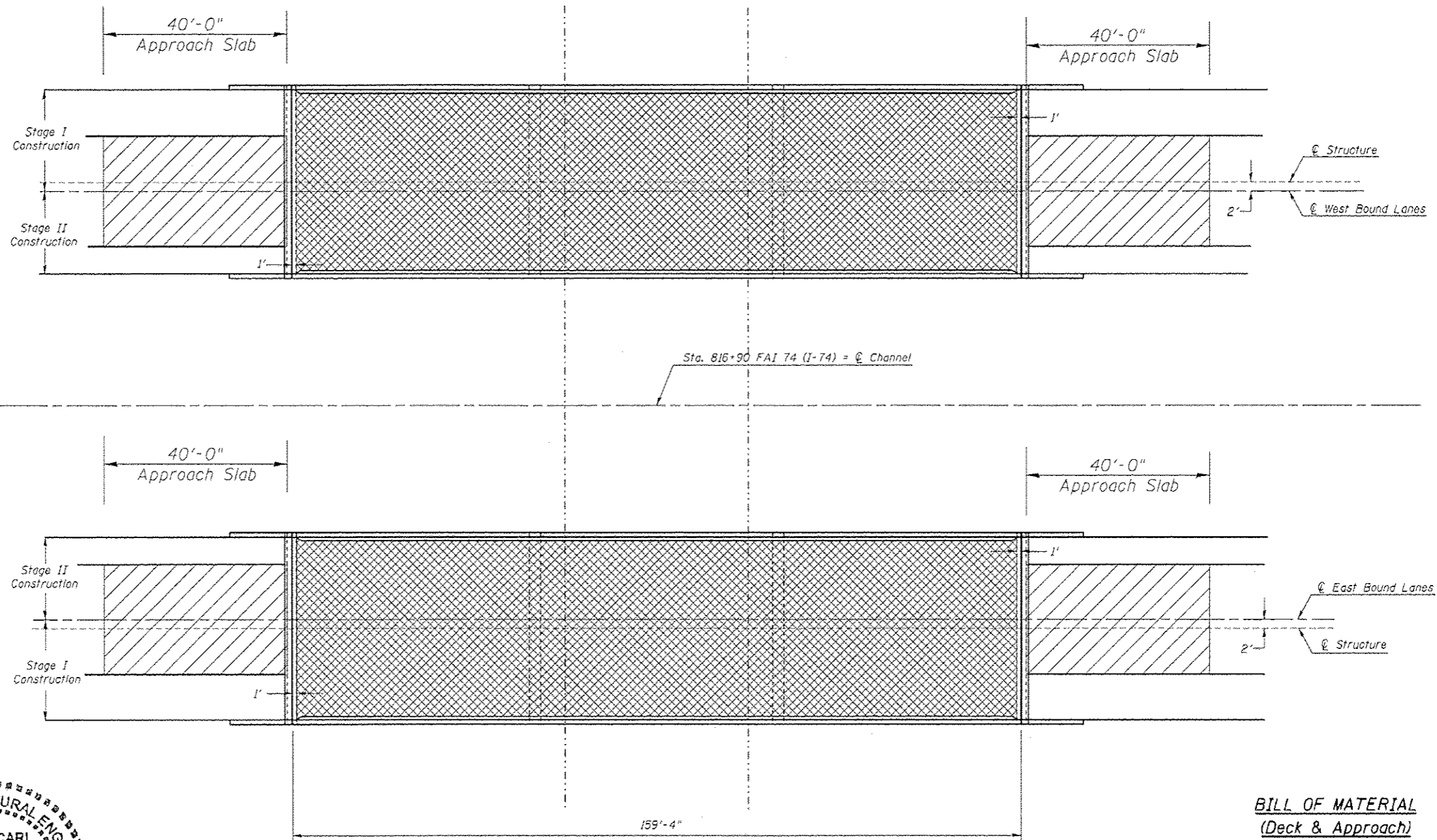
•20-1(HVB,HB-1,VB-1,B,B-1)I

FILE NAME =	USER NAME = brandenburgtj	DESIGNED <i>RTC</i>	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGED CONSTRUCTION DETAILS S.N. 020-0032 (EB) & S.N. 020-0033 (WB)	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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PLOT SCALE = 40.0000' / in.		CHECKED <i>TJB</i>	REVISED -			CONTRACT NO. 90876					
PLOT DATE = 10/13/2015		DATE <i>11/29/2011</i>	REVISED -			ILLINOIS FED. AID PROJECT					

SCALE: SHEET 3 OF 23 SHEETS STA. TO STA.

WEARING SURFACE PLAN

S.N. 020-0032 (EB) & S.N. 020-0033 (WB)



BILL OF MATERIAL (Deck & Approach)

Structure	Item	Unit	Total
020-0032	Hot-Mix Asphalt Surface Removal (Asbestos)	Sq Yd	674.0
	Bridge Latex Concrete Overlay, 2 1/2"	Sq Yd	888.0
	Bridge Deck Scarification, 3/4"	Sq Yd	888.0
	Bridge Deck Grooving	Sq Yd	861.0
020-0033	Hot-Mix Asphalt Surface Removal (Asbestos)	Sq Yd	674.0
	Bridge Latex Concrete Overlay, 2 1/2"	Sq Yd	888.0
	Bridge Deck Scarification, 3/4"	Sq Yd	888.0
	Bridge Deck Grooving	Sq Yd	861.0

- H.M.A. Wearing Surface Removal (Deck) or (Asbestos) & Bridge Deck Latex Concrete Overlay
- H.M.A. Surface Removal, Variable Depth; Bridge Deck Scarification 3/4" and Bridge Deck Latex Concrete Overlay 2 1/2" (varies to 4")



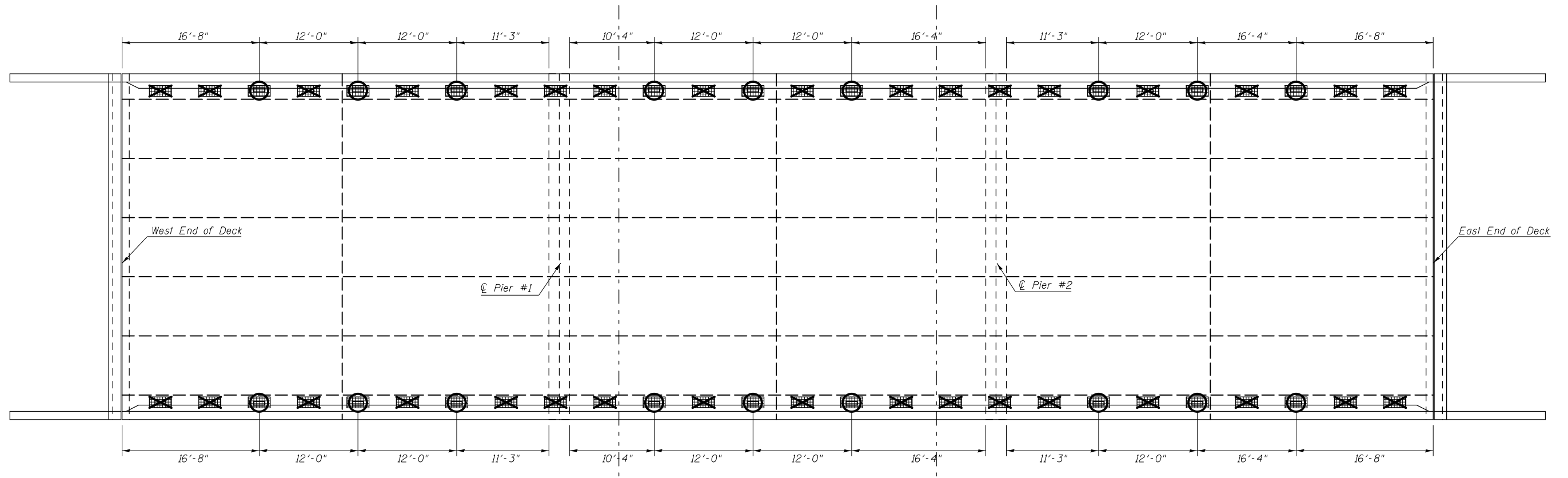
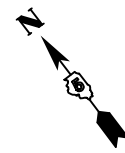
David Carl Puzey 12/1/15
Expires 11/30/16

FILE NAME *	USER NAME * brandenburgsj	DESIGNED RTC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	WEARING SURFACE PLAN S.N. 020-0032 (EB) & S.N. 020-0033 (WB)	F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
			REVISED -			74	*	DEWITT	166	105	
			REVISED - TJB			CONTRACT NO. 90876					
			REVISED - 11/30/2015			ILLINOIS FED. AID PROJECT					
PLOT SCALE = 40,000' / 1" =		CHECKED TJB	DATE 11/29/2011	SCALE:	SHEET OF SHEETS	STA.	TO STA.				

*20-1(HV)B,HB-1,VB-1,B,B-1/1

FLOOR DRAIN & PATCHING DETAILS

S.N. 020-0032 (EB) & S.N. 020-0033 (WB)



PLAN VIEW
Either Structure

LEGEND

- Eliminate floor drain
 - Proposed floor drain location
 - Deck Slab Repair (Full Depth, Type I) at all Drain Locations. All repair areas are 2'-0" x 1'-0", unless otherwise noted.
- See next sheet for details associated with proposed floor drains

NOTES:

- Patch sizes shown represent conditions at the time the plans were completed. An Estimated 1% of the Deck Area has been included should additional Deck Slab Repair (Full Depth, Type I) be required after Bridge Deck Scarification.
- The actual sizes and locations of patching shall be determined by the engineer. The Engineer shall show the actual locations of the deck repairs on this sheet.
- The existing drains and extensions shall be removed. Cost included with "Deck Slab Repair (Full Depth, Type I)".
- Extreme care must be used when removing concrete near the top flange of the beams. The contractor is responsible for any damage to the beams.

BILL OF MATERIAL

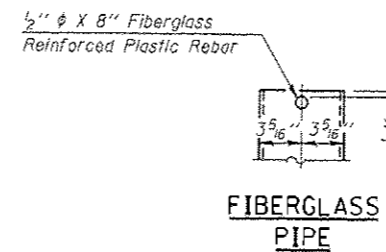
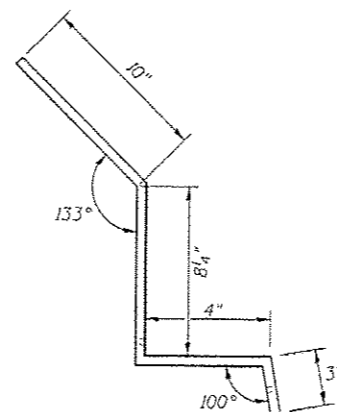
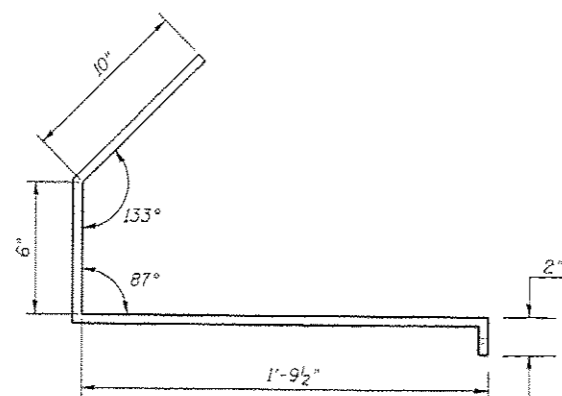
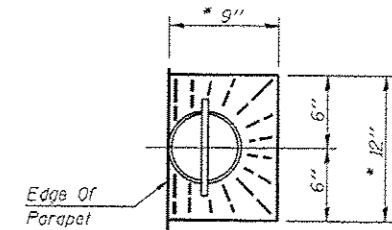
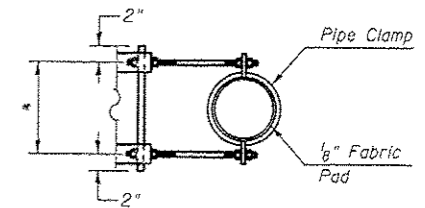
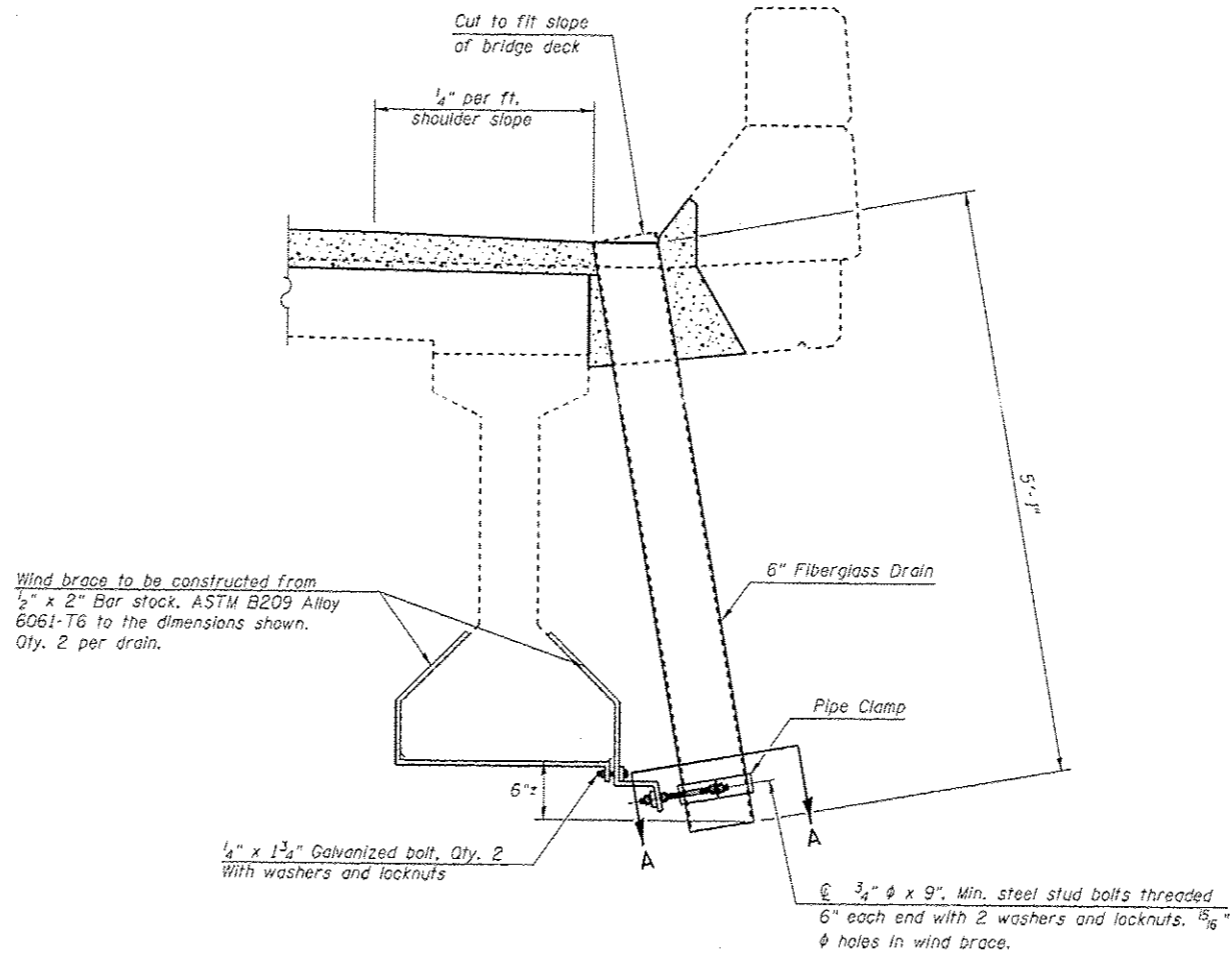
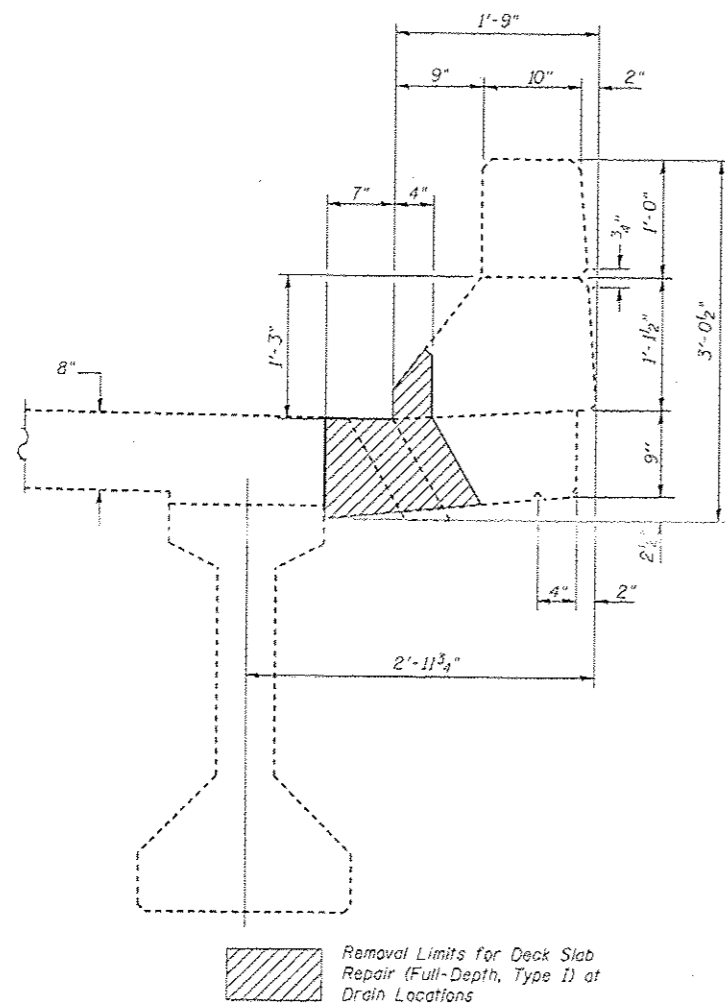
Structure	Item	Unit	Total
020-0032	Deck Slab Repair (Full Depth, Type I)	Sq Yd	19.0
020-0033	Deck Slab Repair (Full Depth, Type I)	Sq Yd	19.0

•20-1(HVB,HB-1,VB-1,B,B-1)I

FILE NAME =	USER NAME = brandenburgtj	DESIGNED <i>RTC</i>	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FLOOR DRAIN AND PATCHING DETAILS S.N. 020-0032 (EB) & S.N. 020-0033 (WB)	F.A.I. RTE. =	SECTION =	COUNTY =	TOTAL SHEETS =	SHEET NO. =
pw:\IL\084EBIDINTEG\illinois.gov\PIWIDOT\Documents\IDOT Offices\District 5\Projects\0504\Drawings\90876-details.sht		CHECKED <i>TJB</i>	REVISED - <i>TJB</i>			74	*	DEWITT	166	106
PLOT SCALE = 40.0000' / in.	DATE = 10/13/2015	DATE = 11/29/2011	REVISED - 9/8/2015			SCALE: SHEET 5 OF 23 SHEETS STA. TO STA.		CONTRACT NO. 90876 ILLINOIS FED. AID PROJECT		

FLOOR DRAIN DETAILS

S.N. 020-0032 (EB) & S.N. 020-0033 (WB)



NOTES:

All dimensions shall be field verified by the contractor prior to ordering of materials.

BILL OF MATERIAL

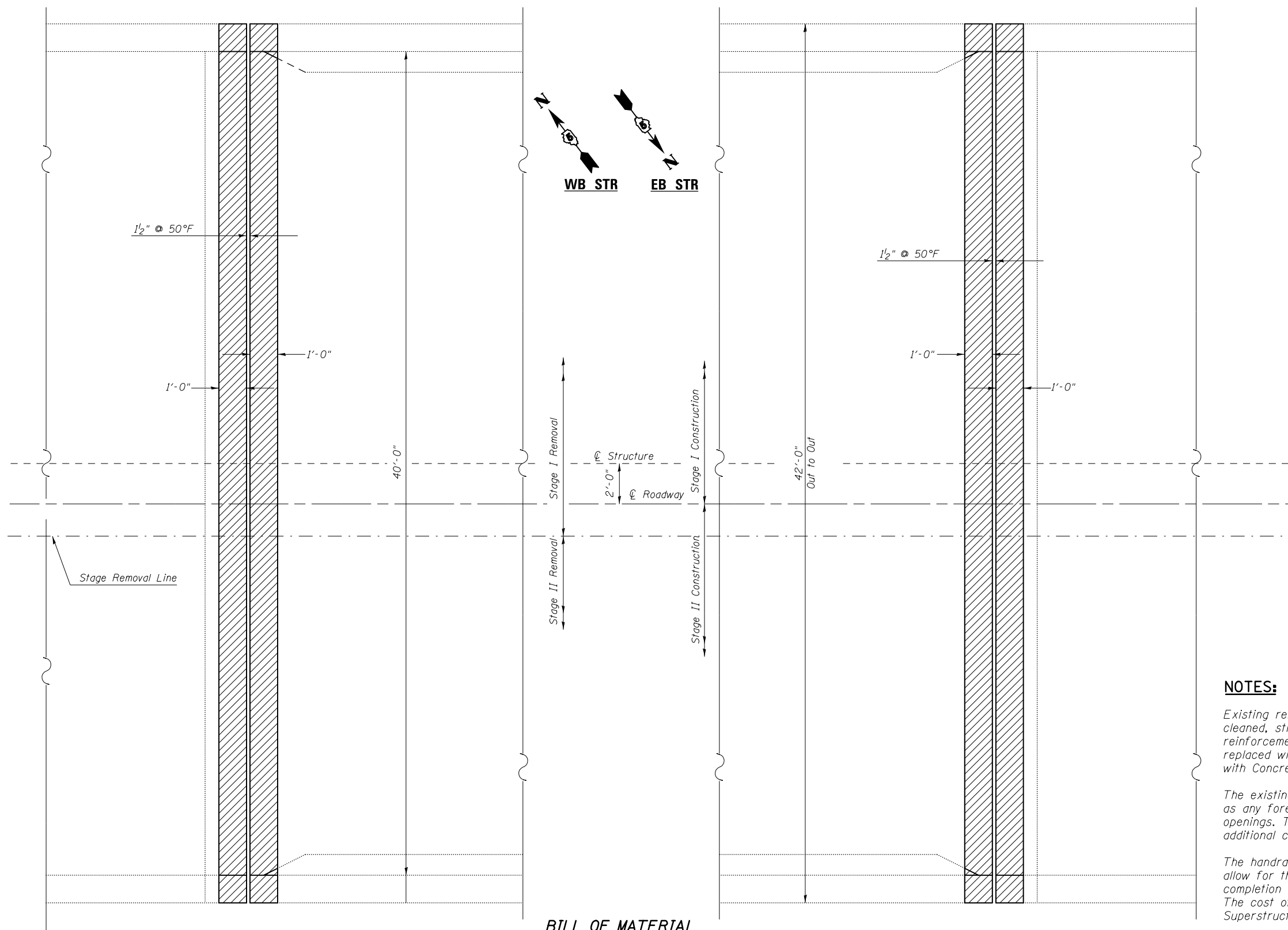
Structure	Item	Unit	Total
020-0032	Floor Drains	Each	18.0
020-0033	Floor Drains	Each	18.0

Cost of removal of existing drains and extensions is included in Deck Slab Repair (Full Depth, Type I).

FILE NAME =	USER NAME = brandenburgtj	DESIGNED RTC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FLOOR DRAIN DETAILS S.N. 020-0032 (EB) & S.N. 020-0033 (WB)	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
p:\v\l\8848\BID\INTEG.illinois.gov\PI\DOT\Documents\DOT Offices\District 5\Projects\0524\Drawings\90876\90876-details.sht	CHECKED TJB	REVISED - TJB	74			*	DEWITT	166	107	
PLOT SCALE = 48.0000 / in.	DATE 11/29/2011	REVISED - 11/30/2015	CONTRACT NO. 90876							
PLOT DATE = 11/30/2015						ILLINOIS FED. AID PROJECT				

SUPERSTRUCTURE PLAN-CONCRETE REMOVAL

S.N. 020-0032 (EB) & S.N. 020-0033 (WB)



BILL OF MATERIAL

STRUCTURE		Parapet		Deck End		Hatch Block		Wingwall		Unit	Total
		West	East	West	East	West	East	West	East		
020-0032	Concrete Removal	0.2	0.2	0.8	0.8	2.4	2.4	0.4	0.4	Cu Yd	7.6
020-0033	Concrete Removal	0.2	0.2	0.8	0.8	2.4	2.4	0.4	0.4	Cu Yd	7.6

NOTES:

Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the New construction. Any reinforcement bars that are damaged during Concrete Removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.

The existing expansion joint system shall be removed completely, as well as any foreign material that has accumulated or been placed in the joint openings. The cost for this work is included in Concrete Removal and no additional compensation will be allowed.

The handrail attached to the top of the parapets shall be unbolted to allow for the removal and placement of the parapet ends. Following completion of the parapet ends, the handrail shall be re-attached. The cost of this work shall be included in Concrete Removal & Concrete Superstructures.

All existing deck tie downs shall be removed. Cost included with Concrete Removal.



FILE NAME =	USER NAME = brandenburgtj	DESIGNED <i>RTC</i>	REVISED -
pw:\IL\084EBID\INTEG\illinois.gov\PWIDOT\Documents\IDOT Offices\District 5\Projects\0504\Drawings\90876-details.sht	DRWN <i>TJB</i>	CHECKED <i>TJB</i>	REVISED - <i>TJB</i>
PLOT SCALE = 40.0000' / in.	DATE <i>11/29/2011</i>	REVISIONS	REVISED - 9/8/2015

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

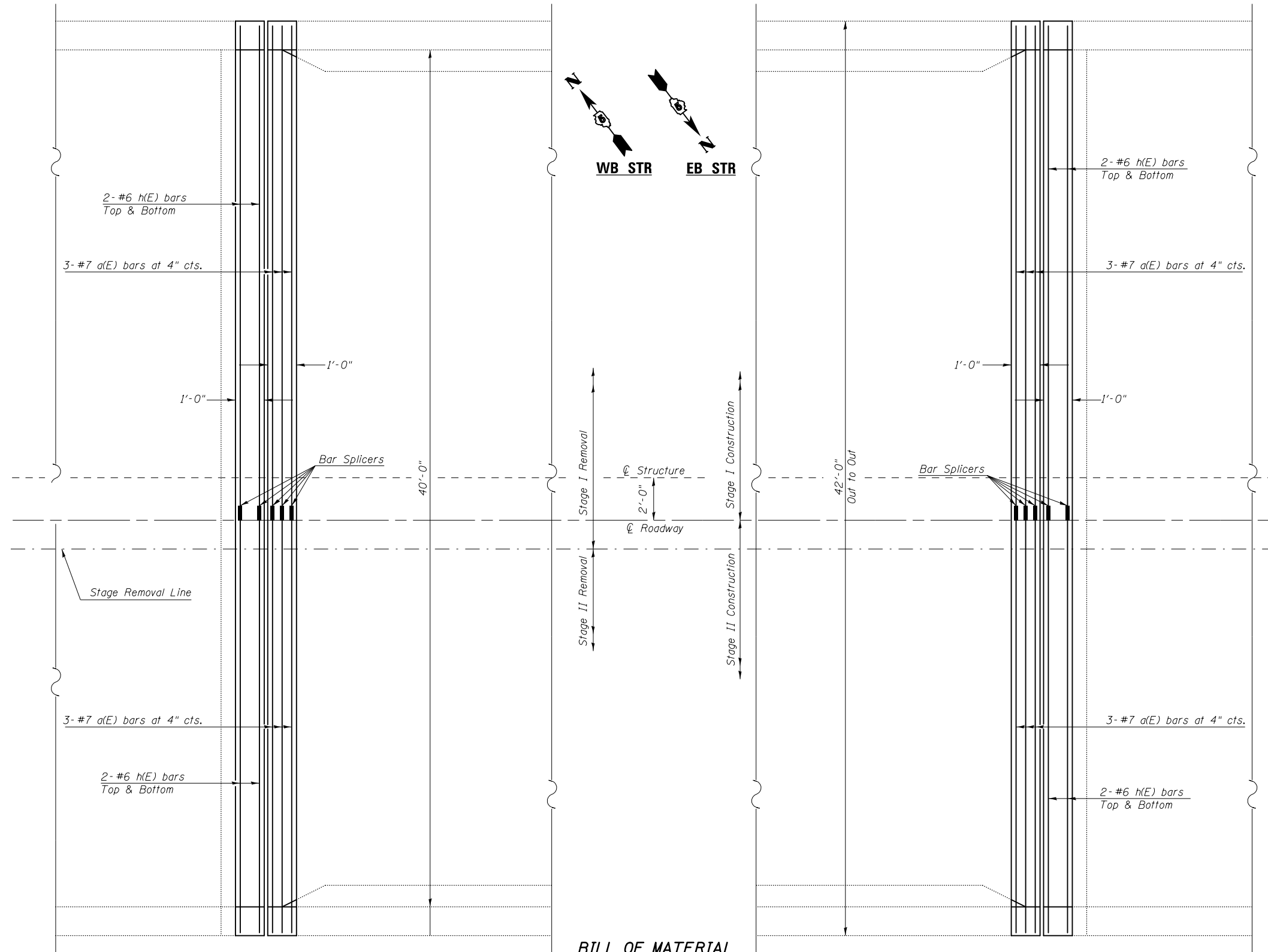
**SUPERSTRUCTURE PLAN-CONCRETE REMOVAL
S.N. 020-0032 (EB) & S.N. 020-0033 (WB)**

SCALE: SHEET 7 OF 23 SHEETS STA. TO STA.

F.A.I. R.T.E.		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74		*	DEWITT	166	108
CONTRACT NO. 90876					
ILLINOIS FED. AID PROJECT					

*20-1(HVB,HB-1,VB-1,B,B-1)I

SUPERSTRUCTURE PLAN-DECK REINFORCEMENT S.N. 020-0032 (EB) & S.N. 020-0033 (WB)



NOTES:

Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the New construction. Any reinforcement bars that are damaged during Concrete Removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.

The existing expansion joint system shall be removed completely, as well as any foreign material that has accumulated or been placed in the joint openings. The cost for this work is included in Concrete Removal and no additional compensation will be allowed.

The handrail attached to the top of the parapets shall be unbolted to allow for the removal and placement of the parapet ends. Following completion of the parapet ends, the handrail shall be re-attached. The cost of this work shall be included in Concrete Removal & Concrete Superstructures.

All existing deck tie downs shall be removed. Cost included with Concrete Removal.

BILL OF MATERIAL

Bill of Materials (Per Joint) S.N. 020-0032 (East Joint & West Joint)																																									
Stage	Bar	No.	Size	Bar (ft-in)	Weight (lbs)																																				
I	a(E)	3	7	23'-0"	141.0																																				
II	a(E)	3	7	19'-0"	116.5	Deck Total (lbs) =					257.5	I	h(E)	4	6	23'-0"	138.2	II	h(E)	4	6	19'-0"	114.2	Hatch Block Total (lbs) =					252.3	Total Weight (lbs) =					510.0	Total for Both Joints (lbs) =					1,020.0
Deck Total (lbs) =					257.5																																				
I	h(E)	4	6	23'-0"	138.2																																				
II	h(E)	4	6	19'-0"	114.2	Hatch Block Total (lbs) =					252.3	Total Weight (lbs) =					510.0	Total for Both Joints (lbs) =					1,020.0																		
Hatch Block Total (lbs) =					252.3																																				
Total Weight (lbs) =					510.0																																				
Total for Both Joints (lbs) =					1,020.0																																				

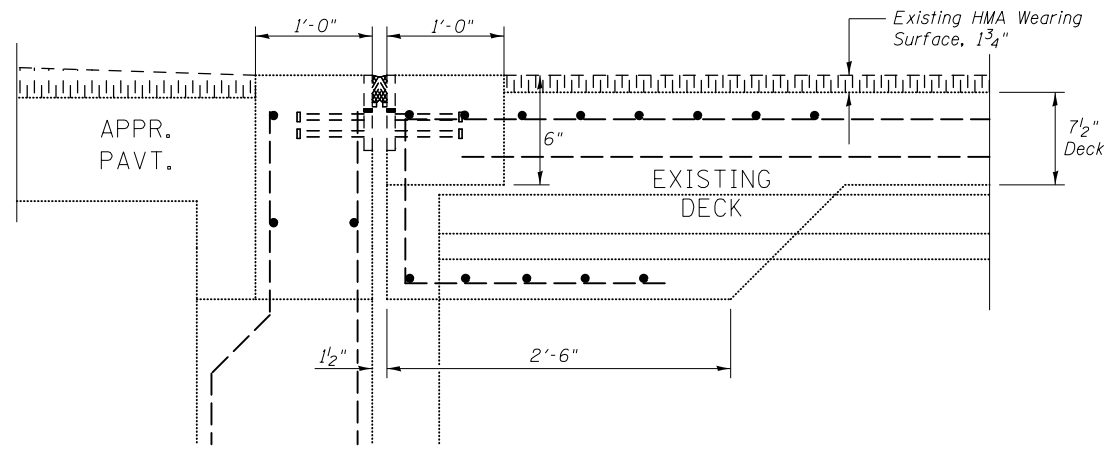
Bill of Materials (Per Joint) S.N. 020-0033 (East Joint & West Joint)																																									
Stage	Bar	No.	Size	Bar (ft-in)	Weight (lbs)																																				
I	a(E)	3	7	23'-0"	141.0																																				
II	a(E)	3	7	19'-0"	116.5	Deck Total (lbs) =					257.5	I	h(E)	4	6	23'-0"	138.2	II	h(E)	4	6	19'-0"	114.2	Hatch Block Total (lbs) =					252.3	Total Weight (lbs) =					510.0	Total for Both Joints (lbs) =					1,020.0
Deck Total (lbs) =					257.5																																				
I	h(E)	4	6	23'-0"	138.2																																				
II	h(E)	4	6	19'-0"	114.2	Hatch Block Total (lbs) =					252.3	Total Weight (lbs) =					510.0	Total for Both Joints (lbs) =					1,020.0																		
Hatch Block Total (lbs) =					252.3																																				
Total Weight (lbs) =					510.0																																				
Total for Both Joints (lbs) =					1,020.0																																				

BILL OF MATERIAL

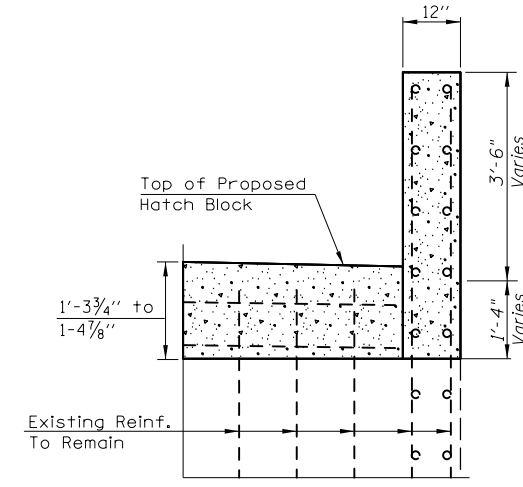
STRUCTURE		Parapet		Deck End		Hatch Block		Wingwall		Unit	Total
NUMBER	Item	West	East	West	East	West	East	West	East		
020-0032	Concrete Superstructure	0.2	0.2	0.8	0.8	2.4	2.4	0.4	0.4	Cu Yd	7.6
020-0033	Concrete Superstructure	0.2	0.2	0.8	0.8	2.4	2.4	0.4	0.4	Cu Yd	7.6

*20-1(HVB,HB-1,VB-1,B,B-1)I

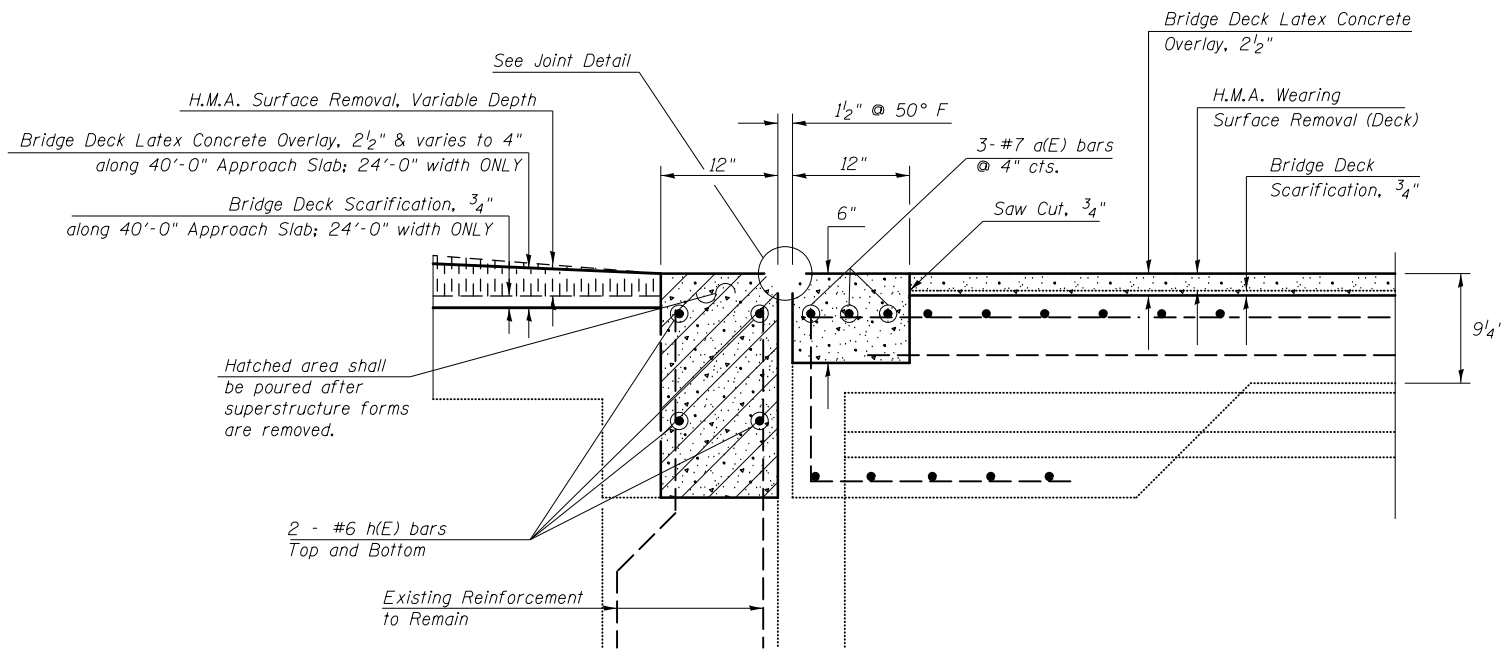
DECK END, WINGWALL AND HATCH BLOCK DETAILS S.N. 020-0032 (EB) & S.N. 020-0033 (WB)



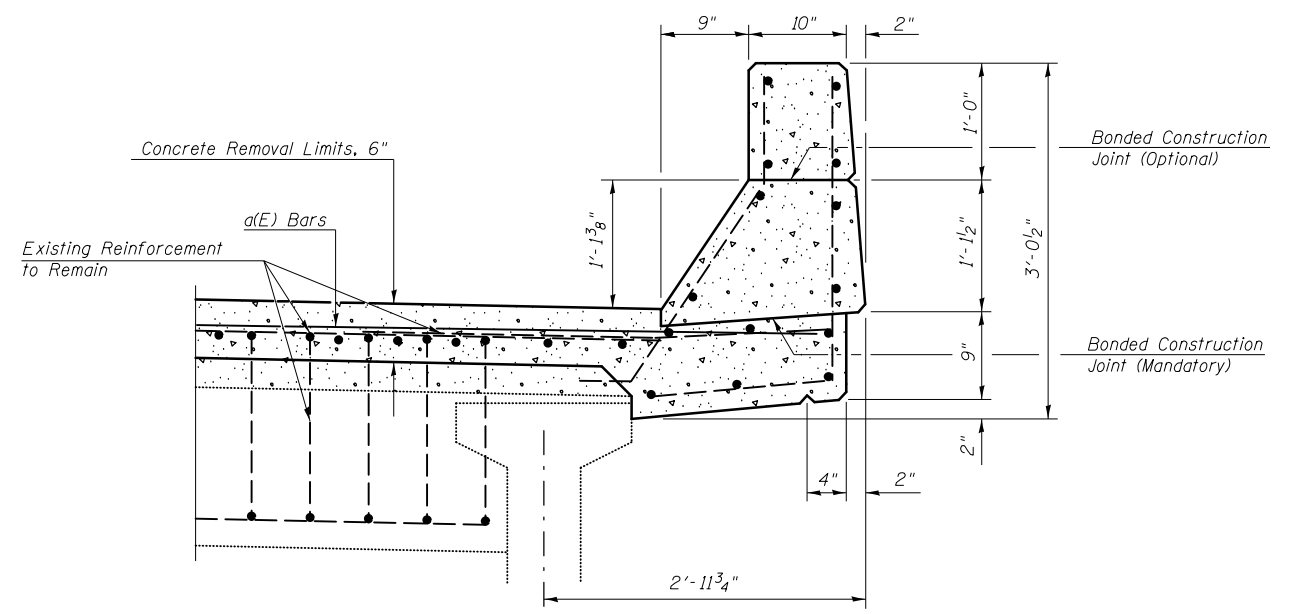
SECTION AT EXISTING JOINT



SECTION AT WINGWALL



SECTION AT PROPOSED JOINT



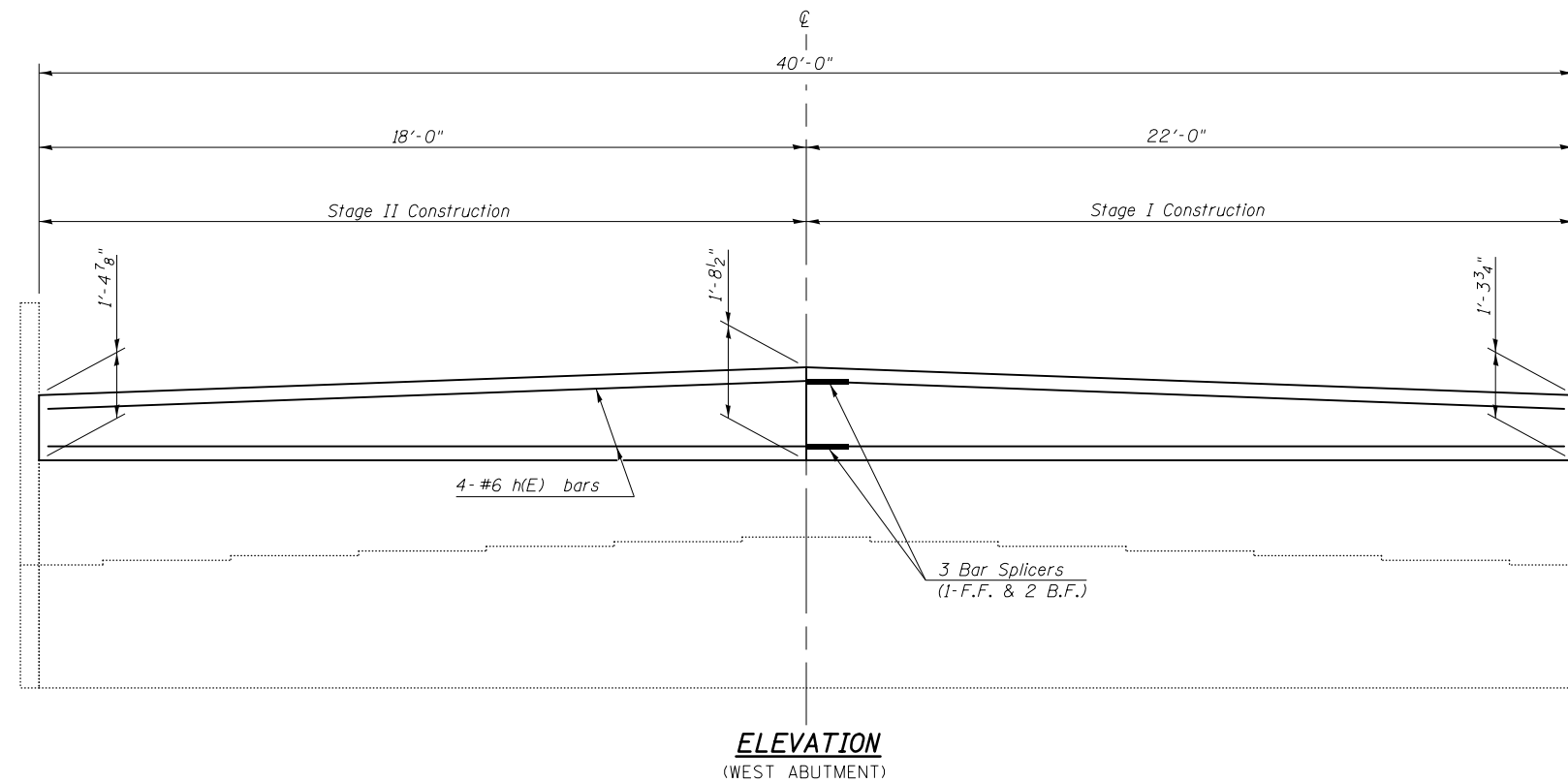
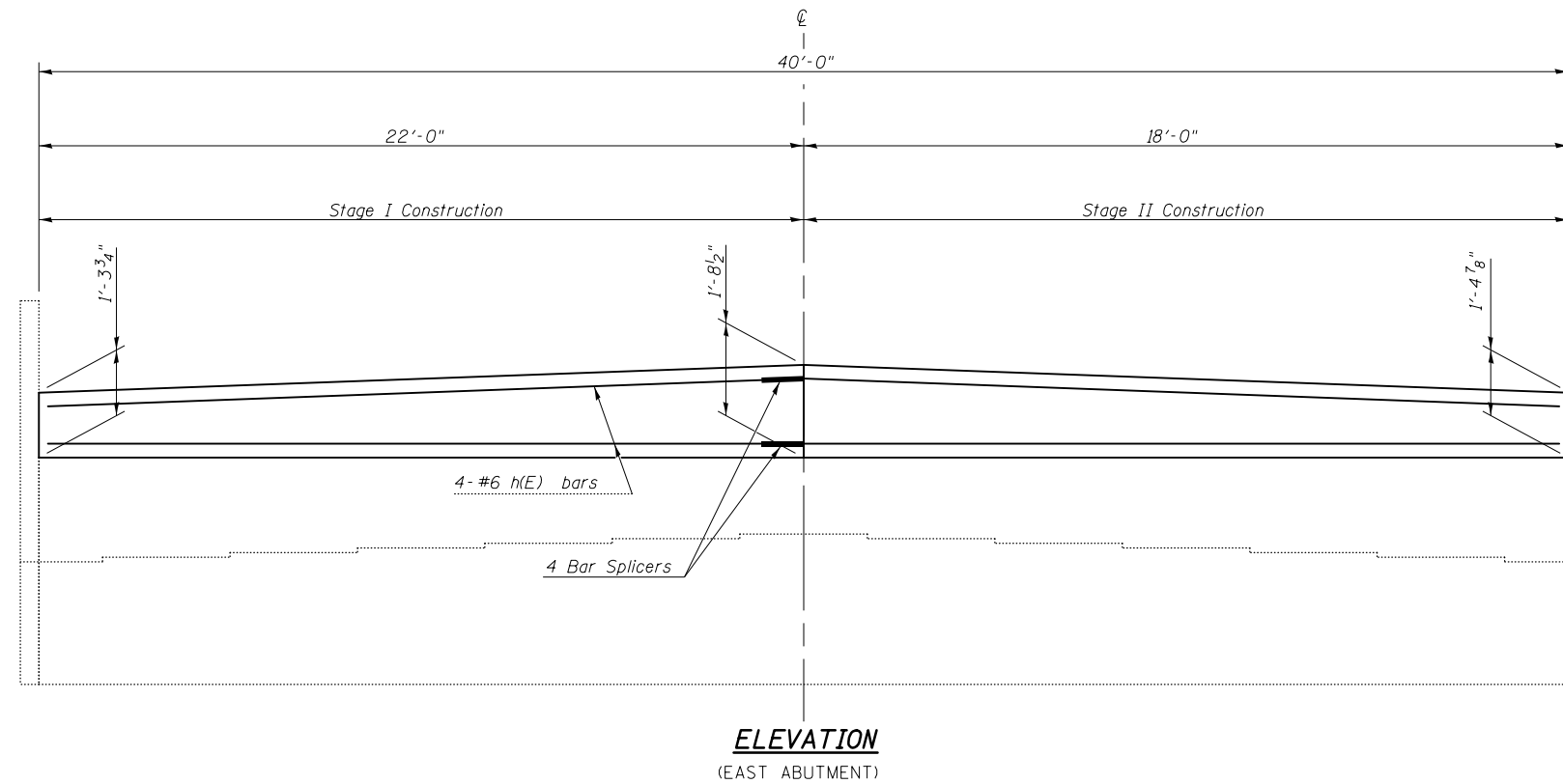
SECTION THRU PARAPET

*Note:
All Existing Reinforcement
to Remain in Place*

FILE NAME =	USER NAME = brandenburgtj	DESIGNED <i>RTC</i>	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DECK END, WINGWALL AND HATCH BLOCK DETAILS S.N. 020-0032 (EB) & S.N. 020-0033 (WB)	F.A.I. R.T.E. =	SECTION =	COUNTY =	TOTAL SHEETS =	SHEET NO. =	
pw:\IL\084EBID\INTEG.illinois.gov\PIWIDOT\Documents\DOT Offices\District 5\Projects\0504\BROWNDATA\90876-details.shp		DRAWN <i>TJB</i>	REVISED -			74	*	DEWITT	166	110	
PLOT SCALE = 40.0000' / in.		CHECKED <i>TJB</i>	REVISED - <i>TJB</i>			CONTRACT NO. 90876					
PLOT DATE = 10/13/2015		DATE <i>11/29/2011</i>	REVISED - 9/8/2015			ILLINOIS FED. AID PROJECT					

HATCH BLOCK DETAILS

S.N. 020-0032 (EB)



•20-1(HVB,HB-1,VB-1,B,B-1)I

FILE NAME =	USER NAME = brandenburgtj	DESIGNED <i>RTC</i>	REVISED -
p:\1\084EBID\INTEG.illinois.gov\PIWIDOT\Documents\DOT Offices\District 5\Projects\0504\Drawings\084EBID\084EBID-Details.sht	DRAWN <i>RTC</i>	CHECKED <i>TJB</i>	REVISED -
	PLOT SCALE = 40.0000' / in.	DATE <i>11/29/2011</i>	REVISED -
	PLOT DATE = 10/13/2015		

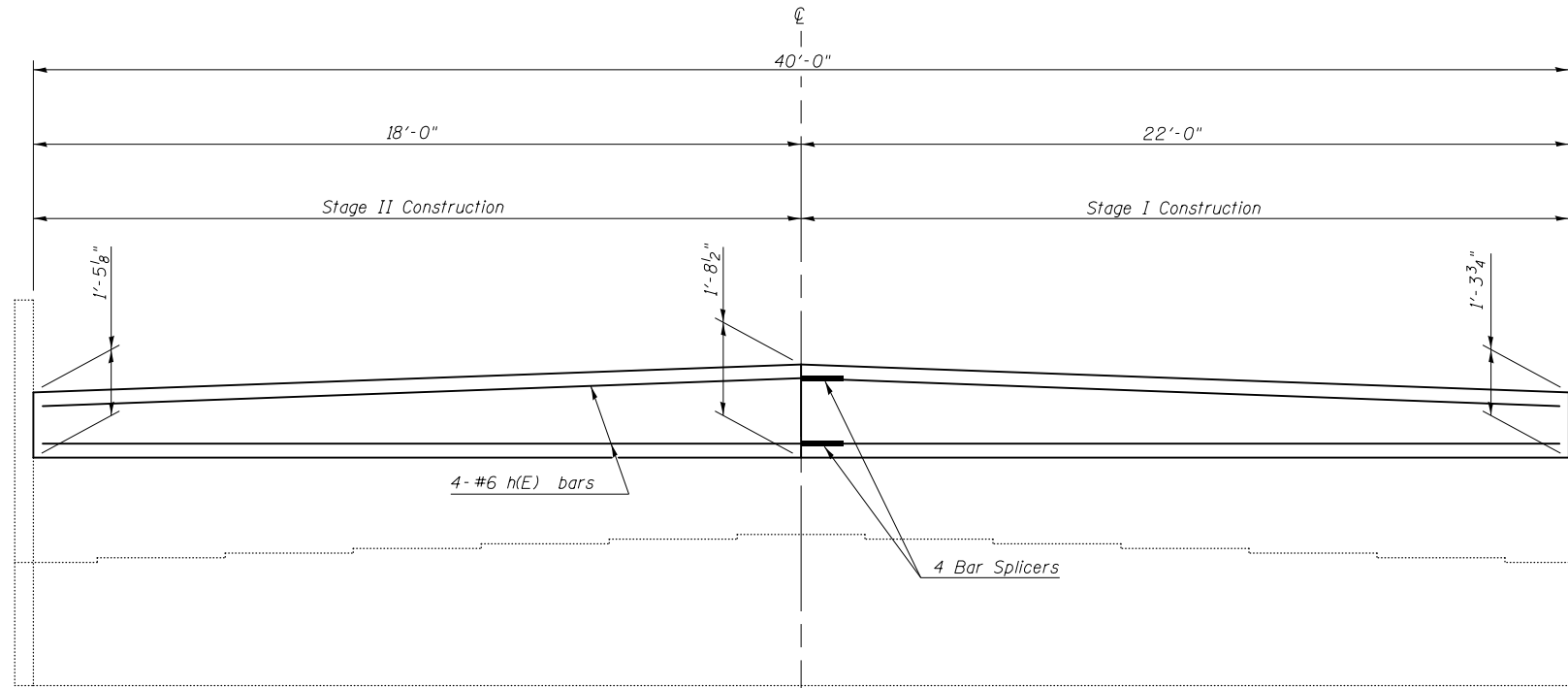
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HATCH BLOCK DETAILS	
S.N. 020-0032 (EB) & S.N. 020-0033 (WB)	
SCALE:	SHEET 10 OF 23 SHEETS STA. TO STA.

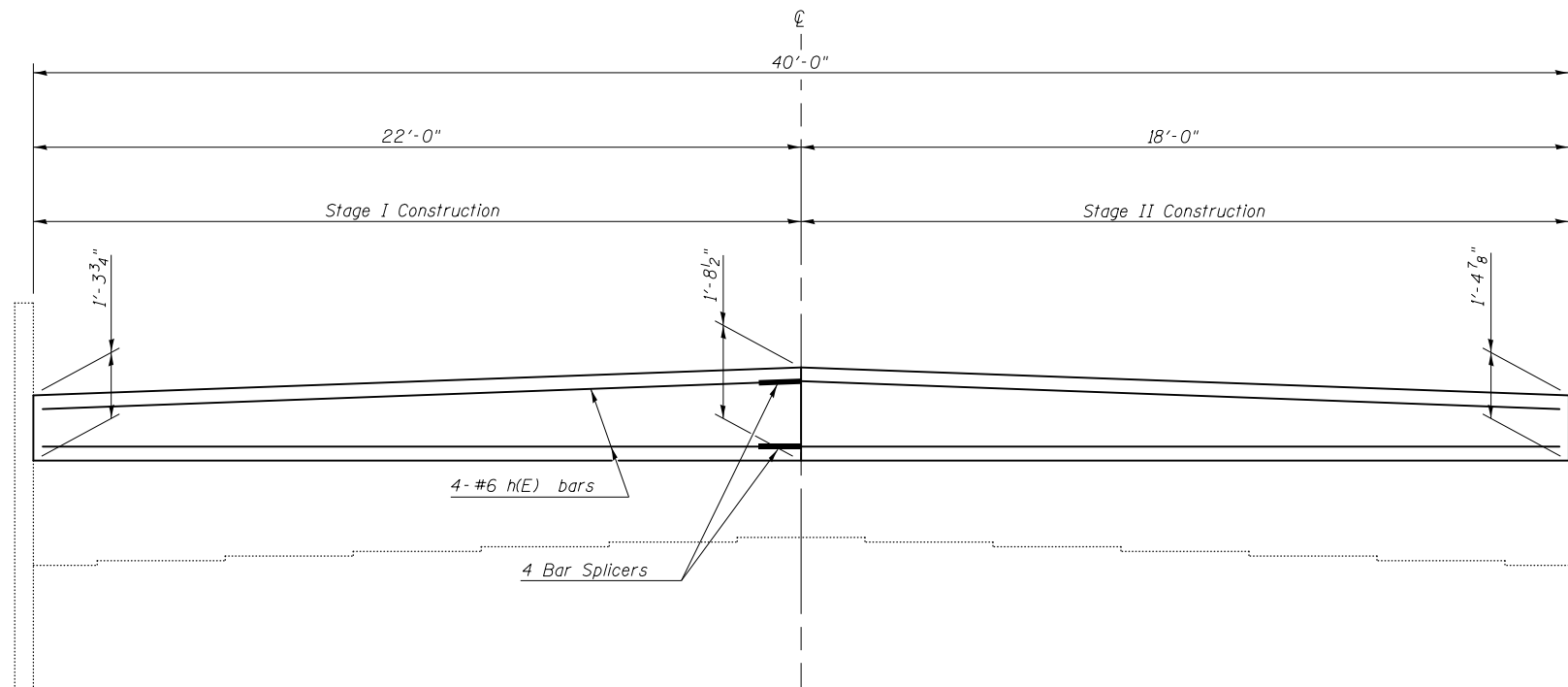
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	*	DEWITT	166	111
				CONTRACT NO. 90876
ILLINOIS FED. AID PROJECT				

HATCH BLOCK DETAILS

S.N. 020-0033 (WB)



ELEVATION
(WEST ABUTMENT)

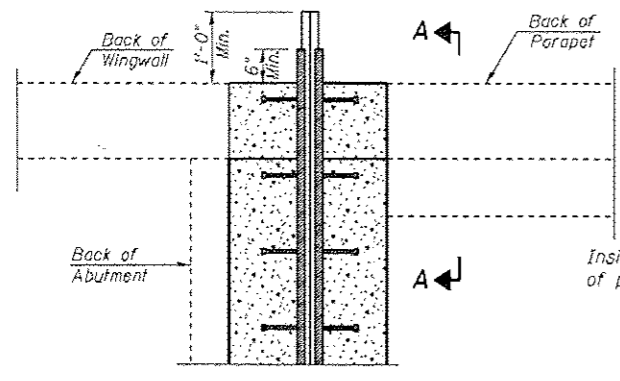


ELEVATION
(EAST ABUTMENT)

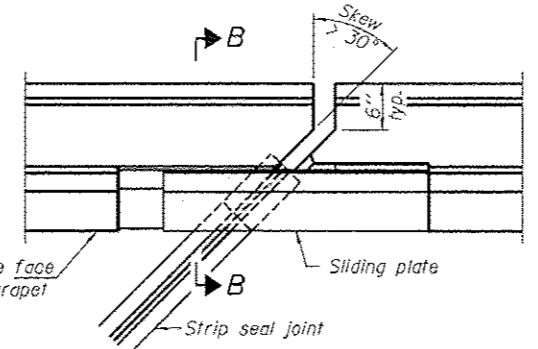
•20-1(HVB,HB-1,VB-1,B,B-1)I

FILE NAME =	USER NAME = brandenburgtj	DESIGNED <i>RTC</i>	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	HATCH BLOCK DETAILS S.N. 020-0032 (EB) & S.N. 020-0033 (WB)	F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
pw:\IL\084EBIDINTEG.illinois.gov\PIWIDOT\Documents\DOT Offices\District 5\Projects\0504\Drawings\084EBIDINTEG\084EBIDINTEG-Details.sht		DRAWN <i>TJB</i>	REVISED -			74	*	DEWITT	166	112	
PLOT SCALE = 40.0000' / in.	CHECKED <i>TJB</i>	REVISOR	REVISOR			CONTRACT NO. 90876					
PLOT DATE = 10/13/2015	DATE <i>11/29/2011</i>	REVISOR	REVISOR			ILLINOIS FED. AID PROJECT					

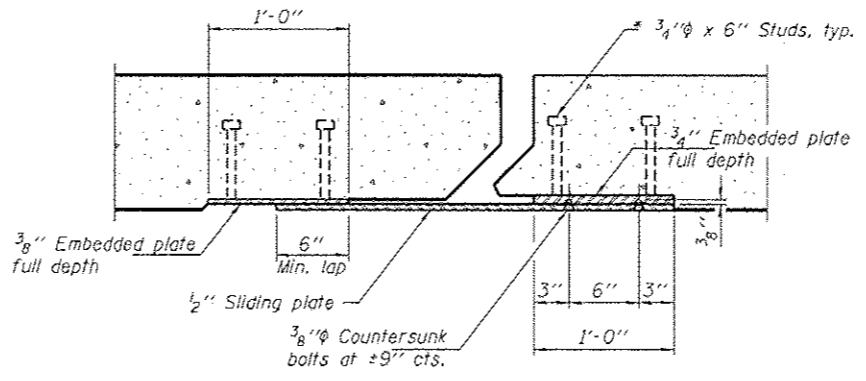
SCALE: SHEET 11 OF 23 SHEETS STA. TO STA.



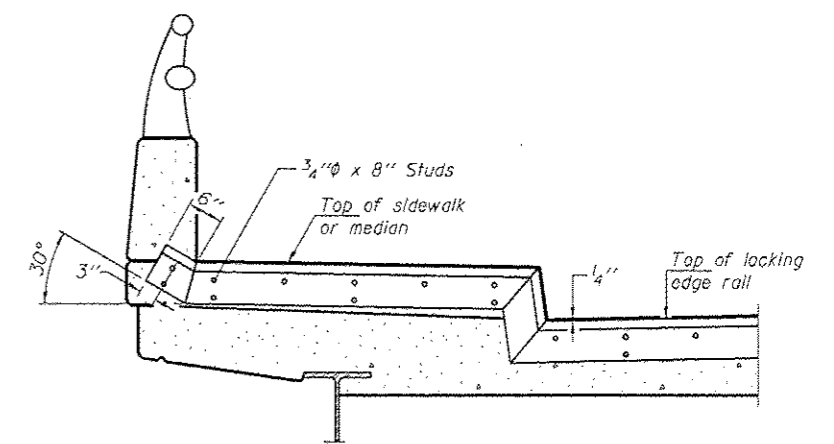
PLAN
(For skews $\le 30^\circ$)



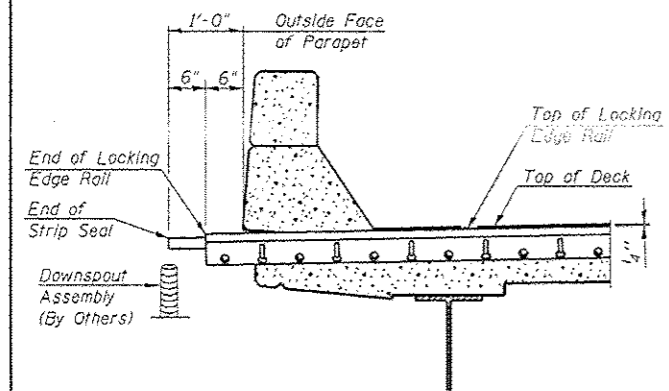
PLAN
(For skews $> 30^\circ$)
Showing point block



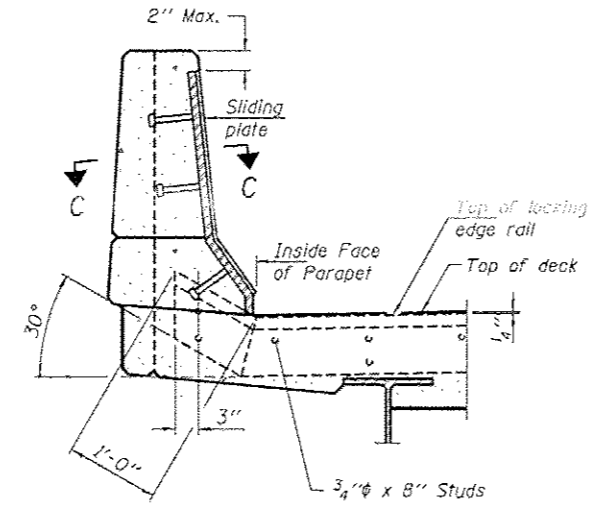
SECTION C-C



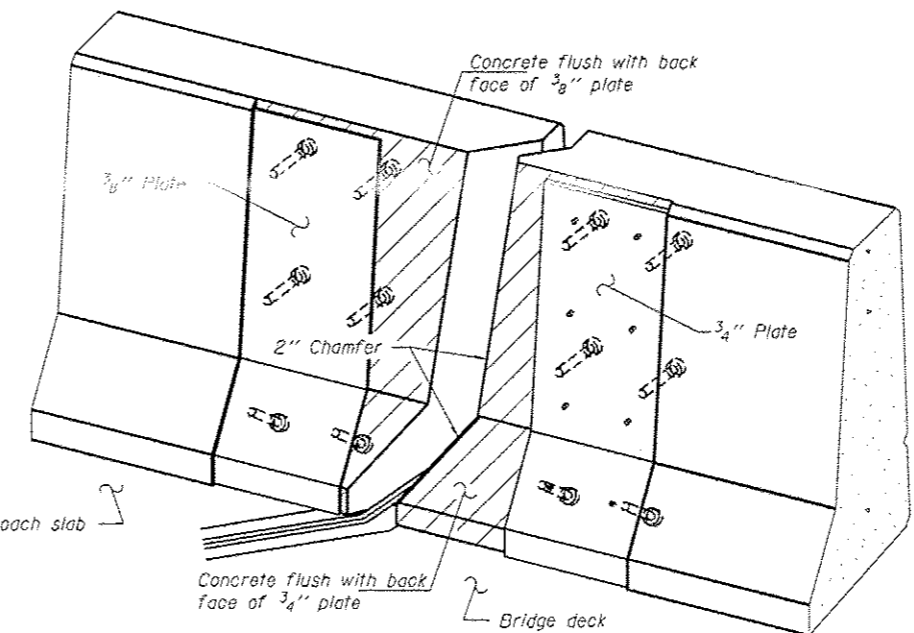
TYPICAL END TREATMENT AT SIDEWALK OR MEDIAN
Shorter plates with a single row of studs at 12" cts. may be necessary on medians which are shallower than 9". See manufacturer's recommendation.



SECTION A-A

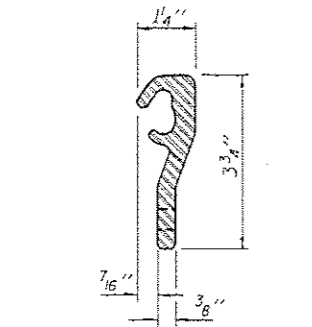


SECTION B-B

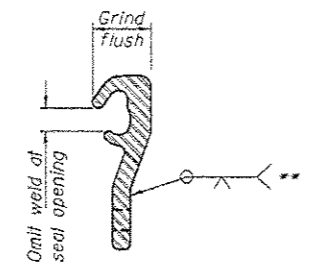


TRIMETRIC VIEW
(Showing back plates only)

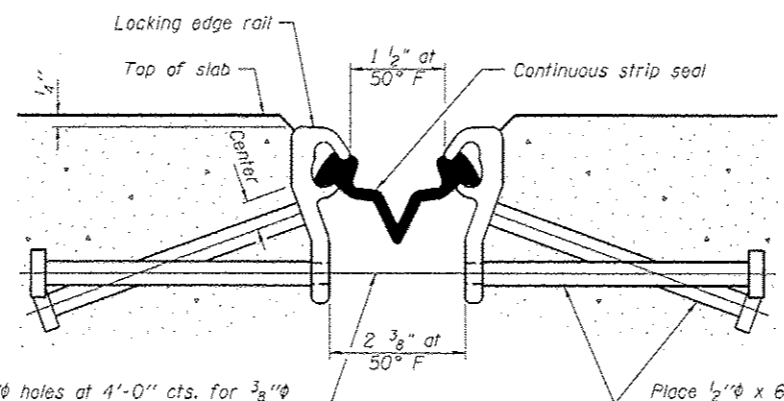
* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.



LOCKING EDGE RAIL



LOCKING EDGE RAIL SPLICE



SECTION THRU STRIP SEAL JOINT

7/16" holes at 4'-0" cts. for 3/8" bolts. All bolts shall be burned, sawed, or chipped off flush with the plates after forms are removed, typ.

Place 1/2" x 6" granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded at 1'-0" alt. cts.

Notes:
The strip seal shall be made continuous and shall have a minimum thickness of 1/4". The configuration of the strip seal shall match the configuration of the Locking Edge Rails.
The height and thickness of the Locking Edge Rails shown are minimum dimensions. The actual configuration of the Locking Edge Rails and matching strip seal may vary from manufacturer to manufacturer. Flanged edge rails will not be allowed.
The inside of the Locking Edge Rail groove shall be free of weld residue.
Locking Edge Rails may be spliced at slope discontinuities and stage construction joints.
All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.
Maximum space between rail segments at stage lines shall be 3#16", sealed with a suitable sealant.
Parapet plates and anchorage studs $> 30^\circ$ included in the cost of Preformed Joint Strip Seal.
The manufacturer's recommended installation methods shall be followed.

BILL OF MATERIAL

Structure	Item	Unit	Total
020-0032	Preformed Joint Strip Seal	Foot	88.0
020-0033	Preformed Joint Strip Seal	Foot	88.0

** Back gauge not required if complete joint penetration is verified by mock-up.

DESIGNED - RTC
CHECKED - TJB
DRAWN - RTC
CHECKED - TJB 12/1/2015

PASSED
ACTING ENGINEER OF BRIDGES AND STRUCTURES

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PREFORMED JOINT STRIP SEAL
S.N. 020-0032 (EB) & S.N. 020-0033 (WB)

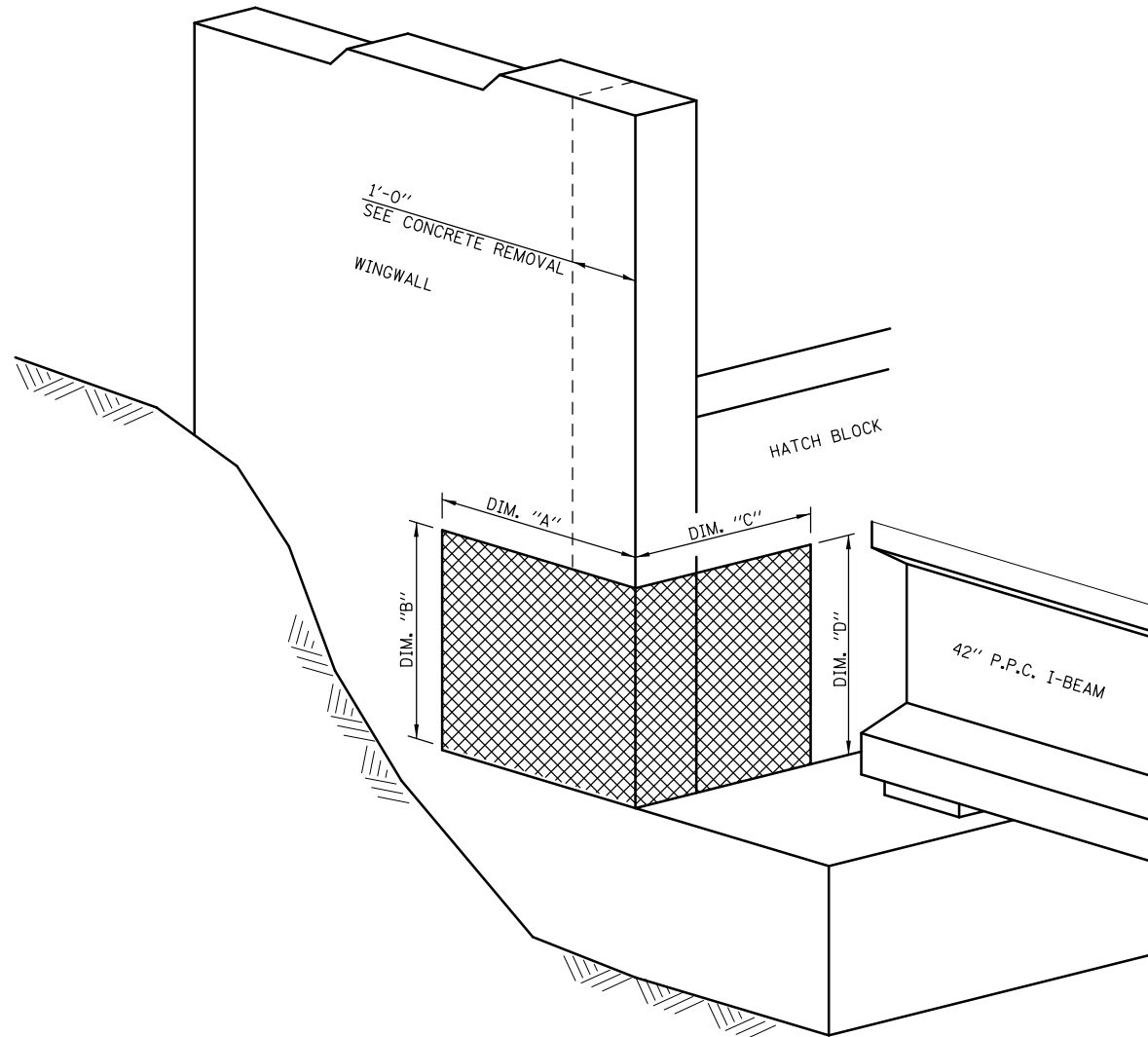
F.A. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO.
TA * DEWITT 166 113
CONTRACT NO. 90876
ILLINOIS FED. AID PROJECT

*20-11HV8,HB-1,VB-1,8,8-111

SHEET NO. 12 OF 23 SHEETS

SUBSTRUCTURE REPAIR PLAN

S.N. 020-0032 (EB) & S.N. 020-0033 (WB)



ISOMETRIC VIEW AT ABUTMENT CORNER

S.N. 020-0032
TABLE FOR STRUCTURAL REPAIR OF CONCRETE

ABUTMENT CORNER	REPAIR AREA DIMENSIONS				REPAIR AREA SQ. FT.
	WINGWALL		BACKWALL		
	A	B	C	D	
NORTHEAST	1'-0"	3'-0"	2'-0"	3'-0"	9.0
SOUTHEAST	1'-0"	3'-0"	2'-0"	3'-0"	9.0
NORTHWEST	1'-0"	3'-0"	2'-0"	3'-0"	9.0
SOUTHWEST	-	-	-	-	-

S.N. 020-0033
TABLE FOR STRUCTURAL REPAIR OF CONCRETE

ABUTMENT CORNER	REPAIR AREA DIMENSIONS				REPAIR AREA SQ. FT.
	WINGWALL		BACKWALL		
	A	B	C	D	
NORTHEAST	-	-	-	-	-
SOUTHEAST	1'-0"	3'-0"	2'-0"	3'-0"	9.0
NORTHWEST	-	-	-	-	-
SOUTHWEST	1'-0"	3'-0"	2'-0"	3'-0"	9.0

LEGEND

STRUCTURAL REPAIR OF CONCRETE, DEPTH EQUAL TO OR LESS THAN 5"

NOTE:

SEE SPECIAL PROVISION FOR STRUCTURAL REPAIR OF CONCRETE.

BILL OF MATERIAL

Structure	Item	Unit	Total
020-0032	Structural Repair of Concrete, Depth Equal to or Less than 5"	Sq. Ft.	27.0
020-0033	Structural Repair of Concrete, Depth Equal to or Less than 5"	Sq. Ft.	18.0

FILE NAME =	USER NAME = brandenburgtj	DESIGNED <i>RTC</i>	REVISED -
pw:\11\084EBIDINTEG.illinois.gov\PIWIDOT\Documents\DOT Offices\District 5\Projects\0504\Drawings\90876-details.sht		CHECKED <i>TJB</i>	REVISED - TJB
	PLOT SCALE = 40.0000' / in.	DATE <i>11/29/2011</i>	REVISED - 9/8/2015

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBSTRUCTURE REPAIR PLAN
S.N. 020-0032 (EB) & S.N. 020-0033 (WB)

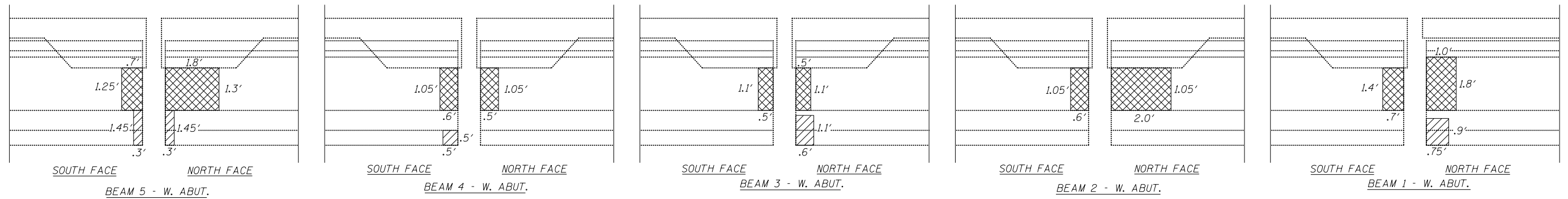
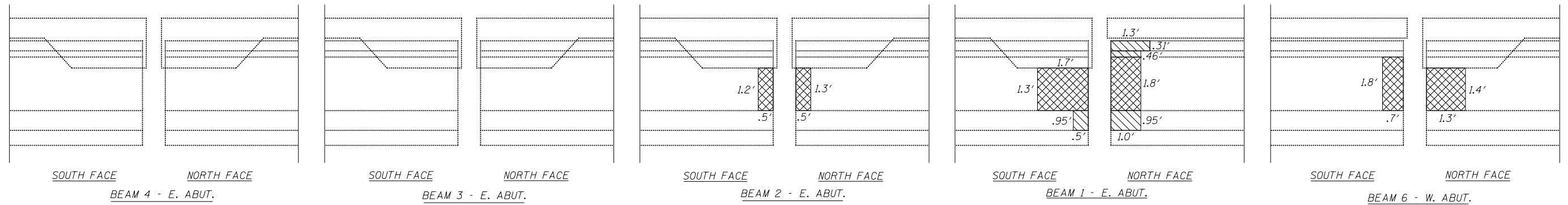
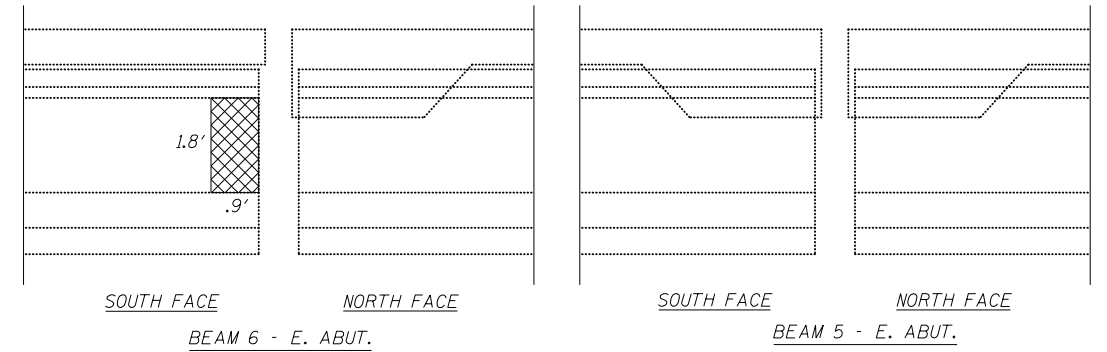
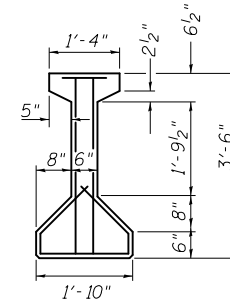
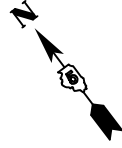
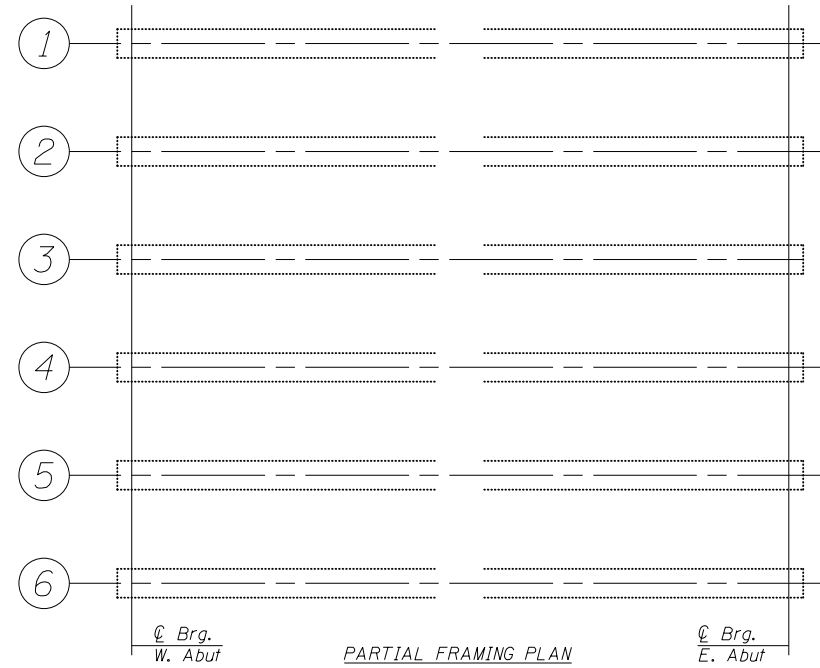
SCALE: SHEET 13 OF 23 SHEETS STA. TO STA.

*20-1(HVB,HB-1,VB-1,B,B-1)I	
F.A.I. RTE.	SECTION
74	*
COUNTY	TOTAL SHEETS
DEWITT	166
SHEET NO. 114	
CONTRACT NO. 90876	
ILLINOIS FED. AID PROJECT	

BEAM END REPAIR DETAILS

S.N. 020-0032 (EB)

Beam Numbers



- Structural Repair of Concrete, Depth Equal to or Less than 5"
- Polymer Modified Portland Cement Mortar

BILL OF MATERIAL

Item	Unit	Total
Structural Repair of Concrete, Depth Equal to or Less than 5"	Sq Ft	5.0
Polymer Modified Portland Cement Mortar	Sq Ft	21.0

*20-1(HVB,HB-1,VB-1,B,B-1)I

FILE NAME =	USER NAME = brandenburgtj	DESIGNED <i>RTC</i>	REVISED -
pw:\11\084EBID\INTEG.illinois.gov\PWIDOT\Documents\DOT Offices\District 5\Projects\0504\Drawings\90876-details.shp		CHECKED <i>TJB</i>	REVISED -
		DATE <i>11/29/2011</i>	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

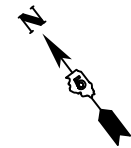
BEAM END REPAIR DETAILS
S.N. 020-0032 (EB)

SCALE: SHEET 14 OF 23 SHEETS STA. TO STA.

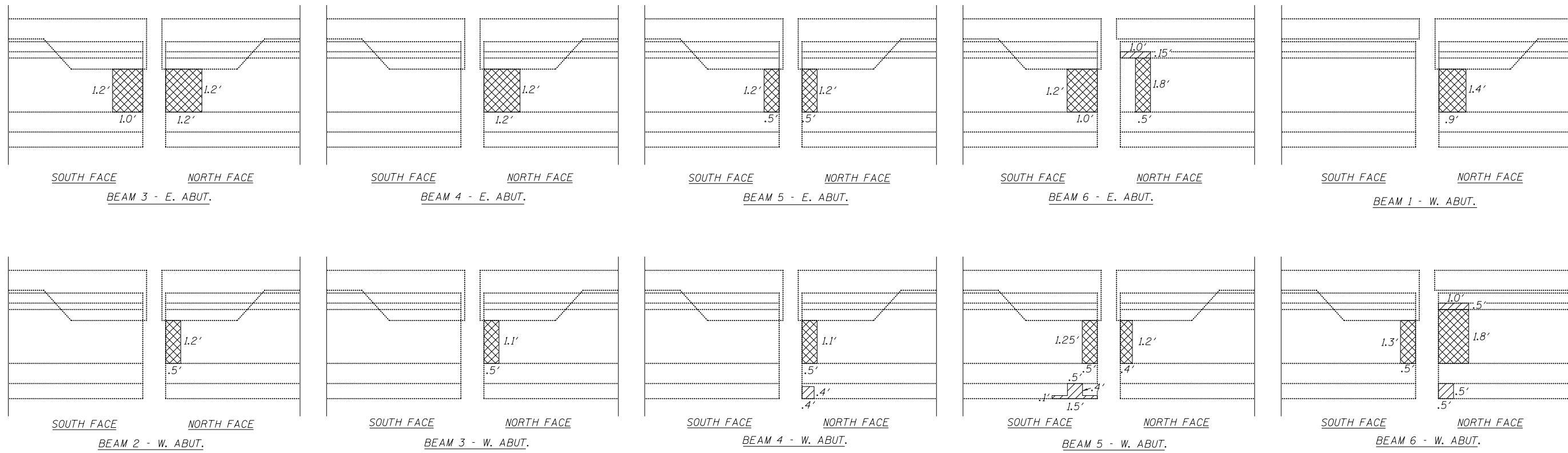
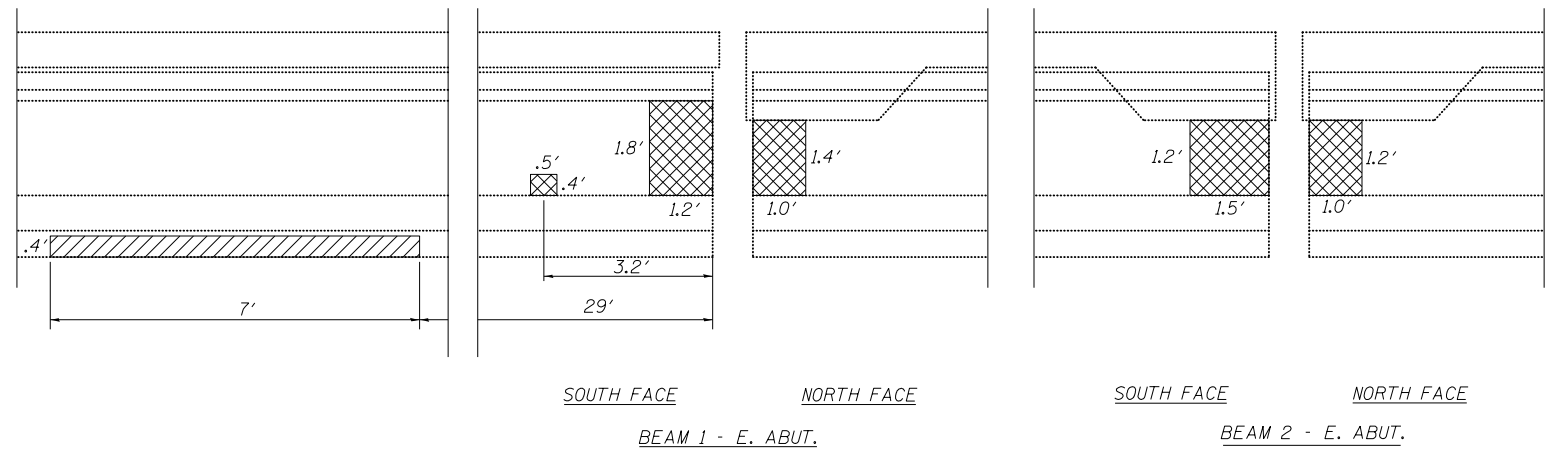
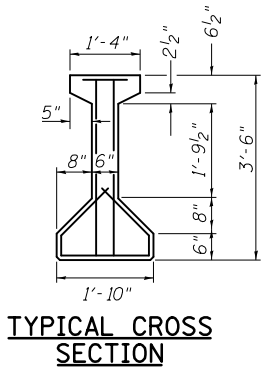
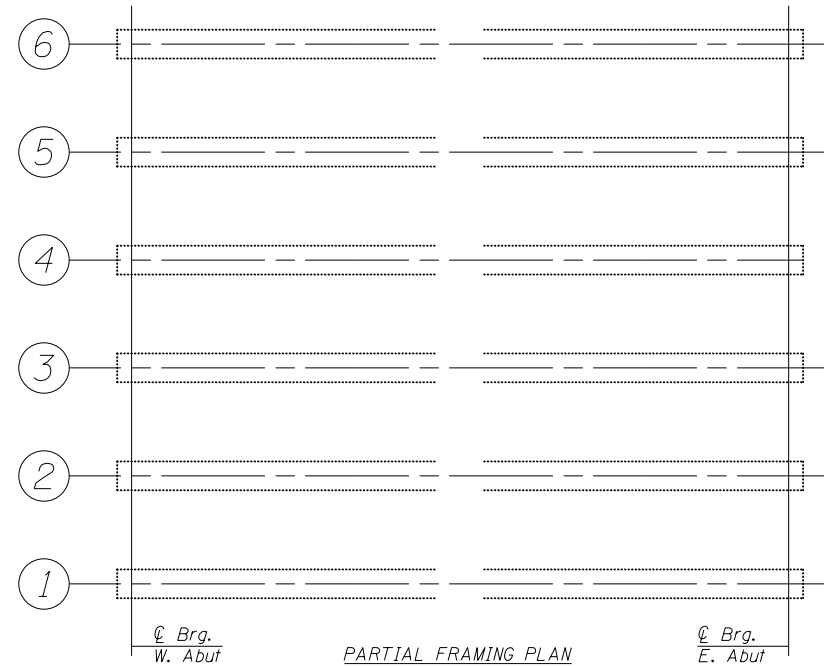
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	*	DEWITT	166	115
CONTRACT NO. 90876				
ILLINOIS FED. AID PROJECT				

BEAM END REPAIR DETAILS

S.N. 020-0033 (WB)



Beam Numbers



- Structural Repair of Concrete, Depth Equal to or Less than 5"
- Polymer Modified Portland Cement Mortar

BILL OF MATERIAL

Item	Unit	Total
Structural Repair of Concrete, Depth Equal to or Less than 5"	Sq Ft	4.0
Polymer Modified Portland Cement Mortar	Sq Ft	21.0

•20-1(HVB,HB-1,VB-1,B,B-1)I

FILE NAME =	USER NAME = brandenburgtj	DESIGNED <i>RTC</i>	REVISED -
pw:\IL\084EBIDINTEG.illinois.gov\PWIDOT\Documents\DOT Offices\District 5\Projects\0504\Drawings\90876-details.sht		DRAWN <i>TJB</i>	REVISED -
		CHECKED <i>TJB</i>	REVISED -
		DATE <i>11/29/2011</i>	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

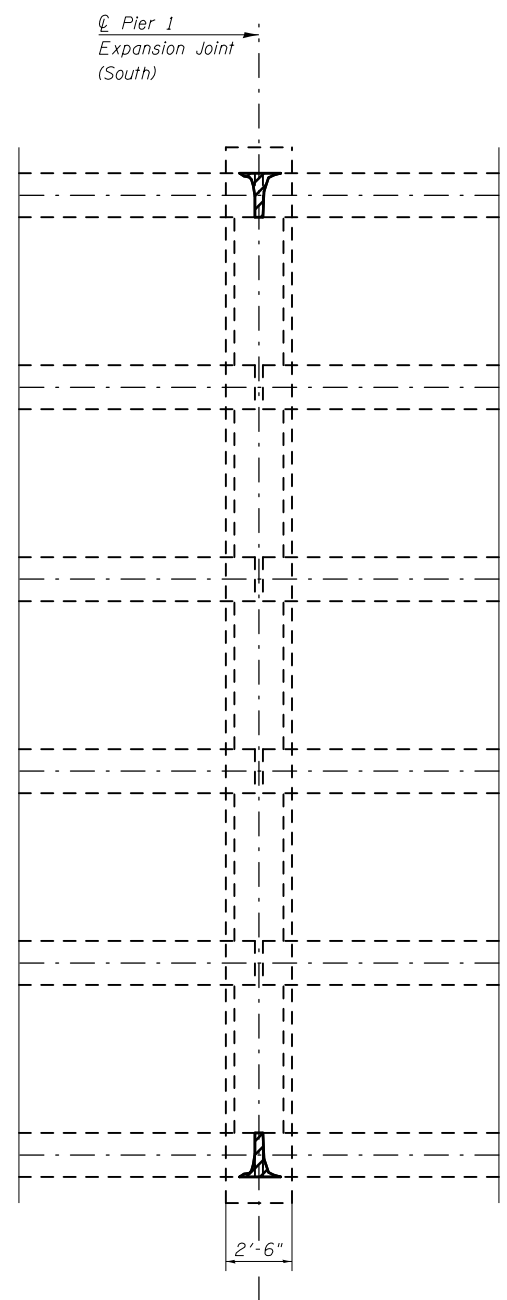
BEAM END REPAIR DETAILS
S.N. 020-0033 (WB)

SCALE: SHEET 15 OF 23 SHEETS STA. TO STA.

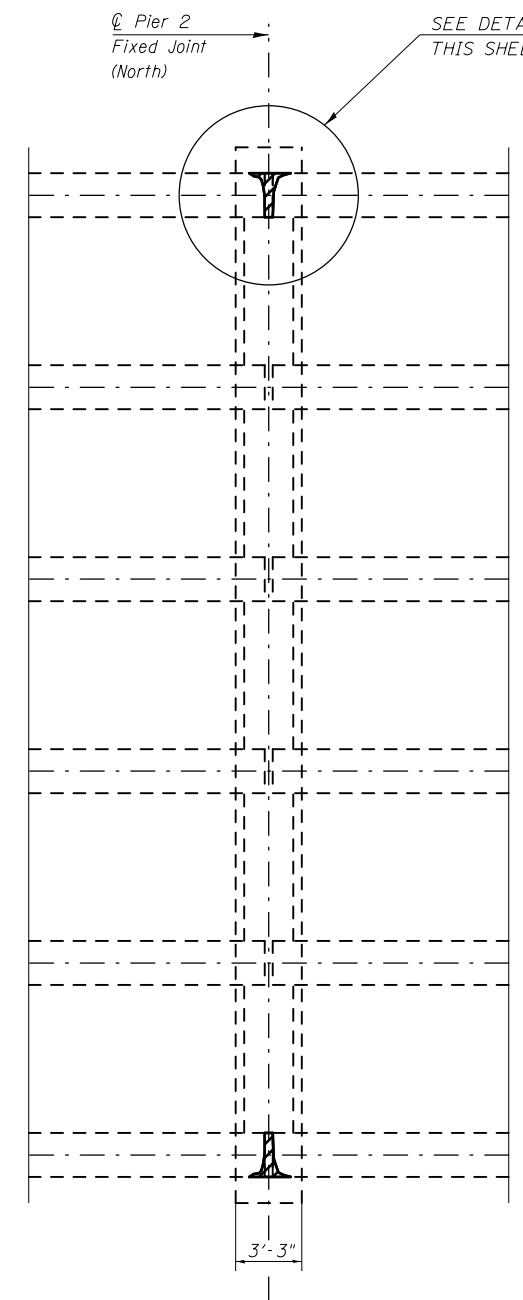
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	*	DEWITT	166	116
CONTRACT NO. 90876				
ILLINOIS FED. AID PROJECT				

COMPRESSION BLOCK REPAIRS

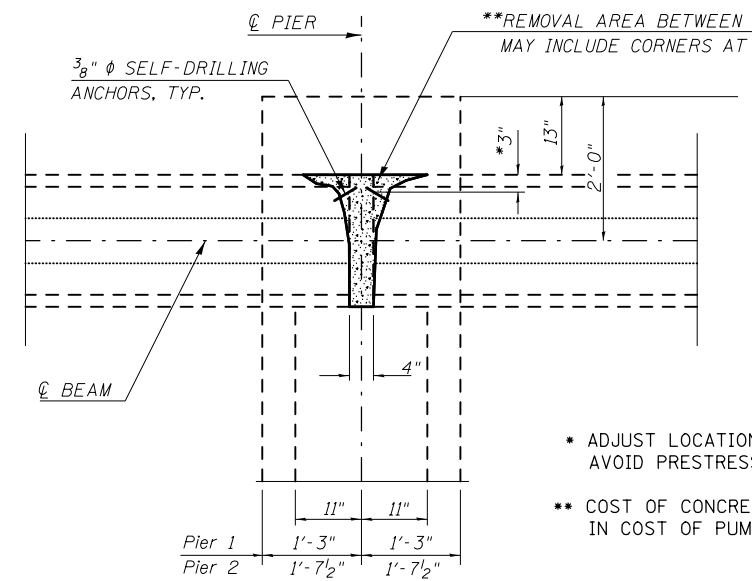
S.N. 020-0032 & S.N. 020-0033



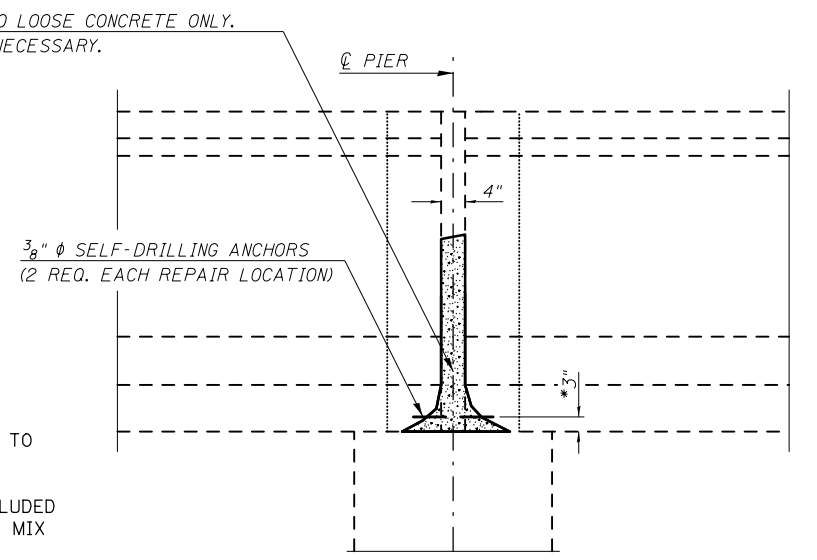
PLAN AT PIER 1
(SHOWING REPAIR LOCATIONS)



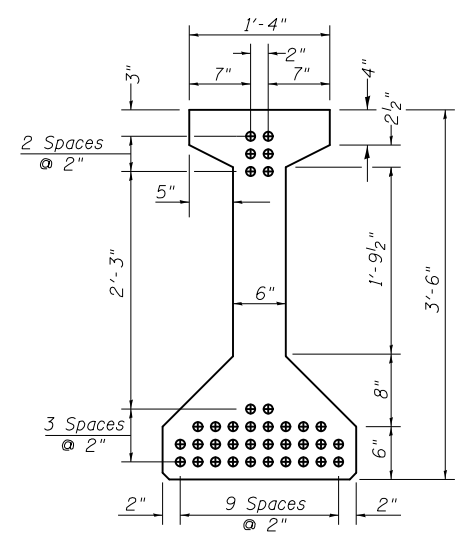
PLAN AT PIER 2
(SHOWING REPAIR LOCATIONS)



PLAN
(COMPRESSION BLOCK REPAIR)



ELEVATION
(COMPRESSION BLOCK REPAIR)



SECTION OF P.P.C. I-BEAM
(SHOWING PRE-STRESSING STRANDS)

- ADJUST LOCATION AS NECESSARY TO AVOID PRESTRESSING STRANDS
- COST OF CONCRETE REMOVAL INCLUDED IN COST OF PUMPABLE CONCRETE MIX

NOTES

The removal of the existing concrete at the compression block repair locations shall be limited to all loose or delaminated concrete only. The contractor shall use extreme care during this removal process to prevent any damage to the existing pre-stressing strands. Special attention shall also be given when using self-drilling anchors in the patch areas. The anchors should not make contact with any of the pre-stressing strands.

The contractor shall use a pumpable concrete mix for the repair. See special provision for pumpable concrete mix for mix requirements. Costs for all work and materials necessary to complete the repairs as shown on this sheet shall be included in cost of Pumpable Concrete Mix.

BILL OF MATERIAL

Structure	Item	Unit	Total
020-0032	Pumpable Concrete Mix	Cu Ft	3.0
020-0033	Pumpable Concrete Mix	Cu Ft	3.0

FILE NAME =	USER NAME = brandenburgtj	DESIGNED <i>RTC</i>	REVISED -
pw:\1L084EBIDINTEG.illinois.gov\PWIDOT\Documents\DOT Offices\District 5\Projects\0504\Drawings\90876-details.sht	DRAWN <i>RTC</i>	CHECKED <i>TJB</i>	REVISED -
	PLOT SCALE = 40.0000' / in.	DATE <i>11/29/2011</i>	REVISED -
	PLOT DATE = 10/13/2015		

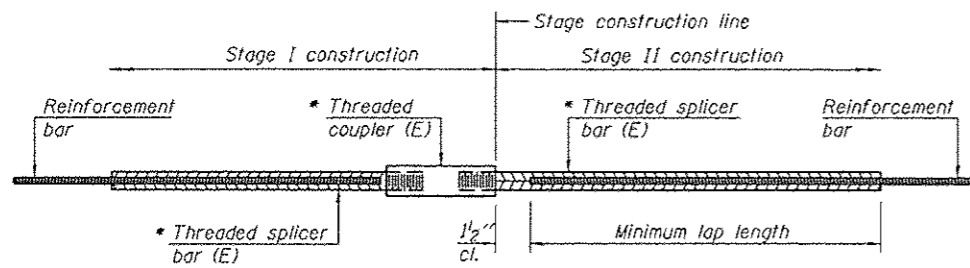
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

COMPRESSION BLOCK REPAIRS
S.N. 020-0032 (EB) & S.N. 020-0033 (WB)

SCALE: SHEET 16 OF 23 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	*	DEWITT	166	117
CONTRACT NO. 90876				
ILLINOIS FED. AID PROJECT				

*20-1(HVB,HB-1,VB-1,B,B-1)I

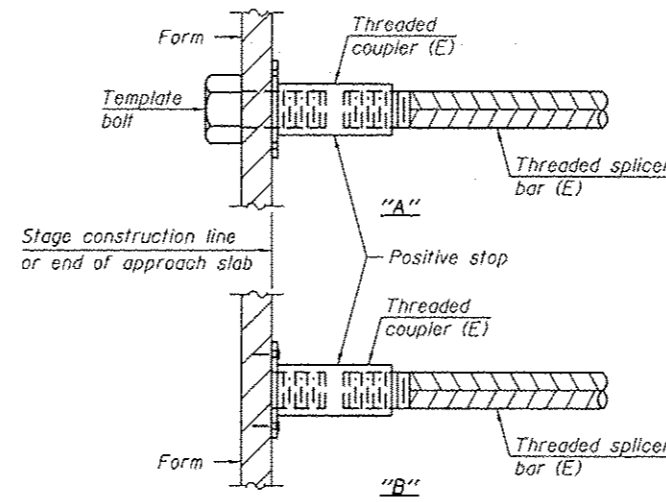


STANDARD BAR SPLICER ASSEMBLY

Threaded splicer bar length = min. lap length + 1/2" + thread length

* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Structure	Location	Bar size	No. assemblies required	Minimum lap length
020-0032	Deck End	#7	6	4'-5"
	Hatch Block	#6	8	3'-10"
020-0032	Deck End	#7	6	4'-5"
	Hatch Block	#6	8	3'-10"

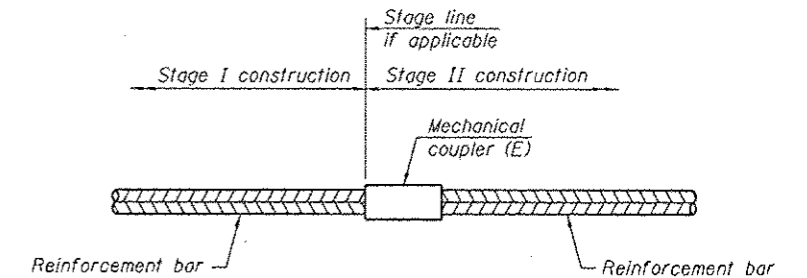


INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.

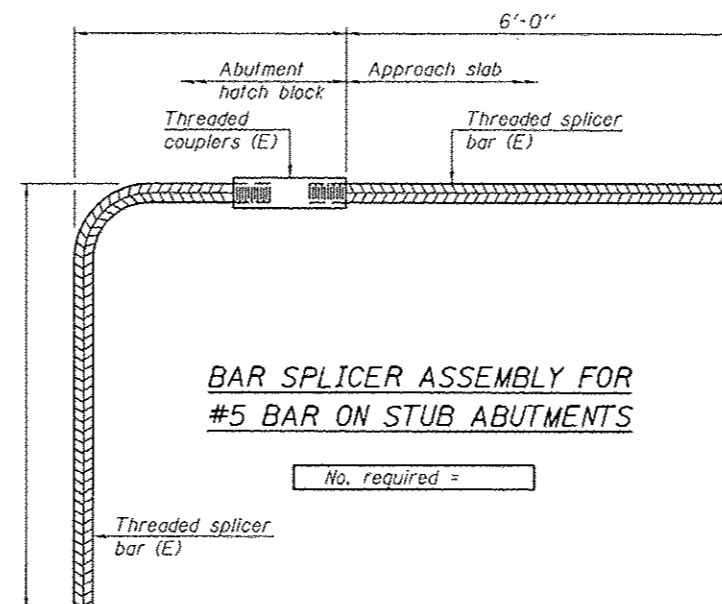
"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

(E) : Indicates epoxy coating.



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

No. required =

NOTES

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.

All reinforcement shall be lapped and tied to the splicer bars. Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.

See approved list of bar splicer assemblies and mechanical splicers for alternatives.

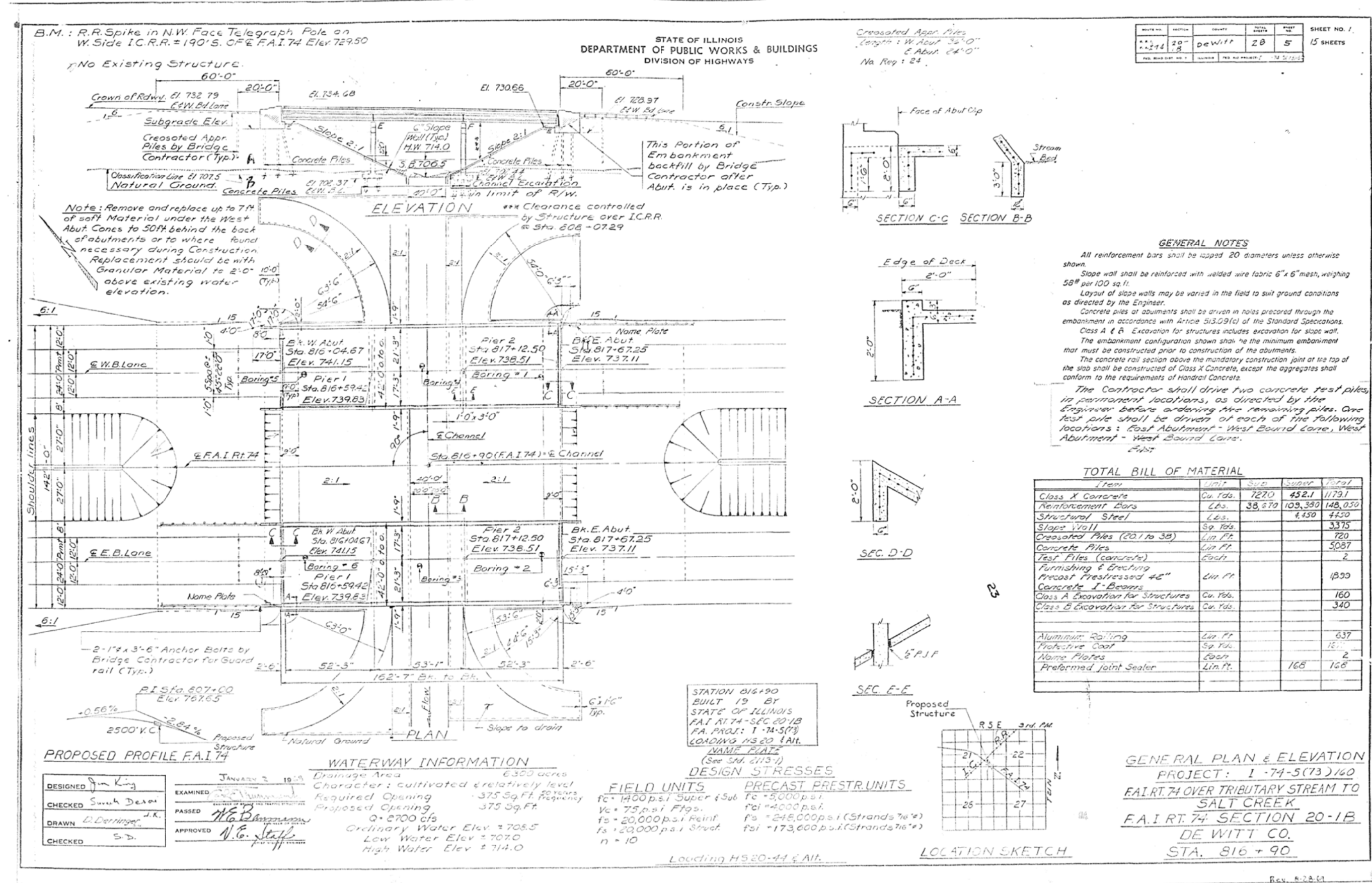
BSD-1 6-8-15

FILE NAME * *FILEL*	USER NAME * brandenburgtj	DESIGNED RTC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS SN 020-0032 (EB) & 020-0033 (WB)	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLLOT SCALE * 40.0000 * / in.	DRAWN RTC	REVISED -			74	.	DEWITT	166	118	
	PLLOT DATE * 10/13/2015	CHECKED TJB	REVISED -			CONTRACT NO. 90876					
		DATE 11/29/2015	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					
SCALE:		SHEET 17 OF 23 SHEETS		STA. TO STA.							

20-104VB,HB-1,VB-1,B,D-11

AS-BUILT PLANS (FOR INFORMATION ONLY)

S.N. 020-0032 (EB) & S.N. 020-0033 (WB)



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
20	20	DeWitt	28	5

15 SHEETS

GENERAL NOTES

All reinforcement bars shall be lapped 20 diameters unless otherwise shown.

Slope wall shall be reinforced with welded wire fabric 6" x 6" mesh, weighing 58# per 100 sq. ft.

Layout of slope walls may be varied in the field to suit ground conditions as directed by the Engineer.

Concrete piles at abutments shall be driven in holes precored through the embankment in accordance with Article 513.09(c) of the Standard Specifications.

Class A & B Excavation for structures includes excavation for slope wall.

The embankment configuration shown shall be the minimum embankment that must be constructed prior to construction of the abutments.

The concrete rail section above the mandatory construction joint at the top of the slab shall be constructed of Class X Concrete, except the aggregates shall conform to the requirements of Handrail Concrete.

The Contractor shall drive two concrete test piles in permanent locations, as directed by the Engineer before ordering the remaining piles. One test pile shall be driven at each of the following locations: East Abutment - West Bound Lane, West Abutment - West Bound Lane.

TOTAL BILL OF MATERIAL

Item	Unit	Sub	Super	Total
Class X Concrete	Cu. Yds.	7270	452.1	11791
Reinforcement Bars	Lbs.	38,270	109,380	148,050
Structural Steel	Lbs.		4,450	4,450
Slope Wall	Sq. Yds.			3375
Crescated Piles (20.1 to 3B)	Lin. Ft.			720
Concrete Piles	Lin. Ft.			5087
Test Piles (concrete)	Each			2
Furnishing & Erecting Precast Prestressed 46"	Lin. Ft.			1830
Concrete I-Beams				
Class A Excavation for Structures	Cu. Yds.			160
Class B Excavation for Structures	Cu. Yds.			340
Aluminum Rolling	Lin. Ft.			637
Protective Coat	Sq. Yds.			16
Name Plates	Each			2
Preformed joint Sealer	Lin. Ft.		168	168

DESIGNED Jim King
CHECKED Smith Desai
DRAWN D. Derringer
CHECKED S.D.

EXAMINED [Signature]
PASSED [Signature]
APPROVED [Signature]

WATERWAY INFORMATION

Drainage Area 6300 acres
 Character: cultivated relatively level
 Required Opening 375 Sq. Ft. Frequency 50 years
 Proposed Opening 375 Sq. Ft.
 Q = 2700 cfs
 Ordinary Water Elev = 708.5
 Low Water Elev = 707.0
 High Water Elev = 714.0

STATION 816+90
 BUILT 19 BY
 STATE OF ILLINOIS
 F.A.I. RT. 74 - SEC 20-1B
 F.A. PROJ: I-74-5(73)160
 LOADING HS 20-44 & Alt.
 NAME PLATE
 (See Std. 2113-1)
DESIGN STRESSES

FIELD UNITS	PRECAST PRESTR. UNITS
f _c = 1400 p.s.i. Super & Sub	f _c = 5000 p.s.i.
f _c = 75 p.s.i. Figs.	f _{ci} = 4000 p.s.i.
f _s = 20,000 p.s.i. Reinf.	f _s = 248,000 p.s.i. (Strands 7/16")
f _s = 20,000 p.s.i. Struct.	f _s = 173,000 p.s.i. (Strands 7/16")
n = 10	

Loading HS 20-44 & Alt.

GENERAL PLAN & ELEVATION
 PROJECT: I-74-5(73)160
 F.A.I. RT. 74 OVER TRIBUTARY STREAM TO
 SALT CREEK
 F.A.I. RT. 74 SECTION 20-1B
 DE WITT CO.
 STA. 816 + 90

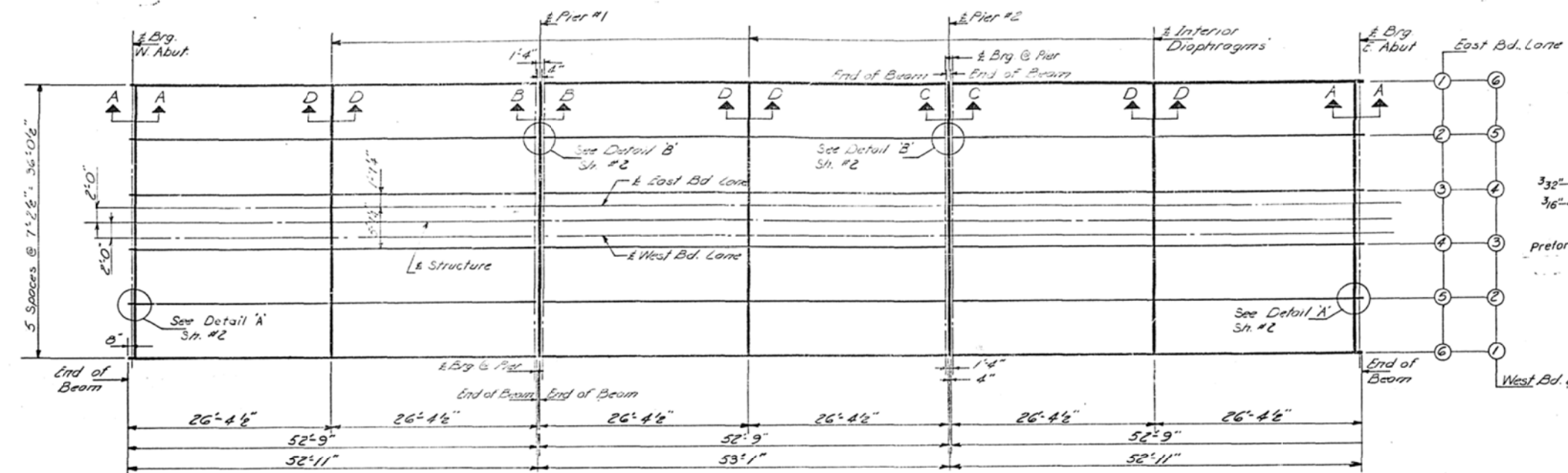
AS-BUILT PLANS (FOR INFORMATION ONLY)

S.N. 020-0032 (EB) & S.N. 020-0033 (WB)

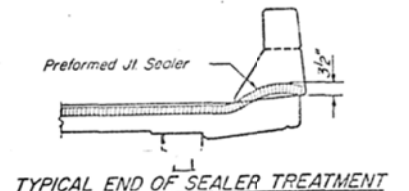
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	MILEAGE	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO.
74	20	De Witt	28	7	15

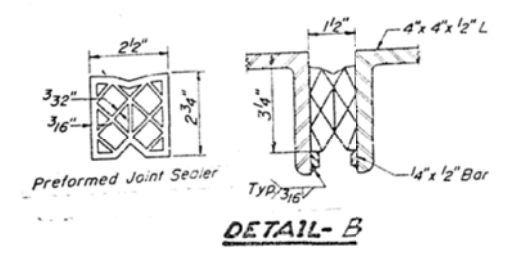
SHEET NO. 3
15 SHEETS



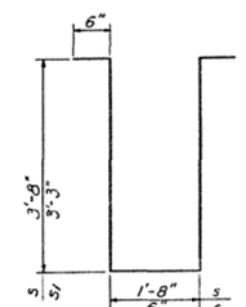
FRAMING PLAN



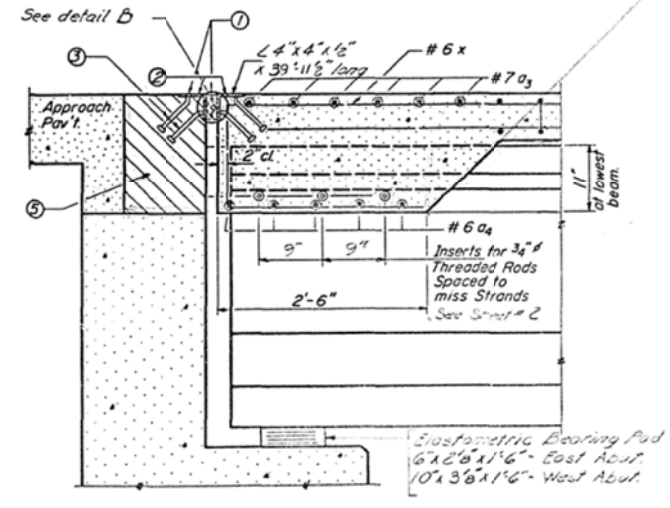
TYPICAL END OF SEALER TREATMENT



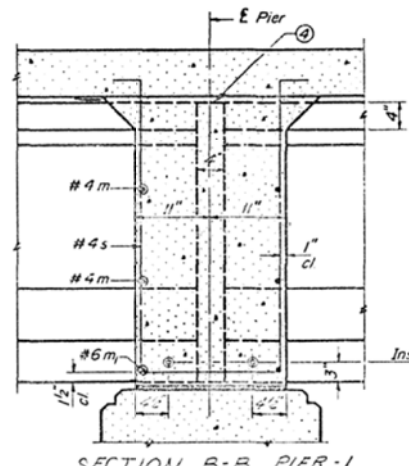
DETAIL-B



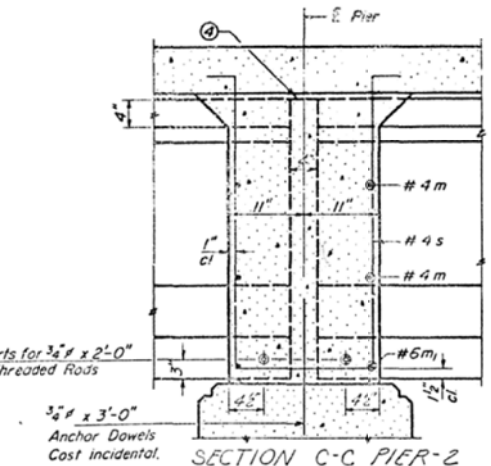
BARS s & s₁



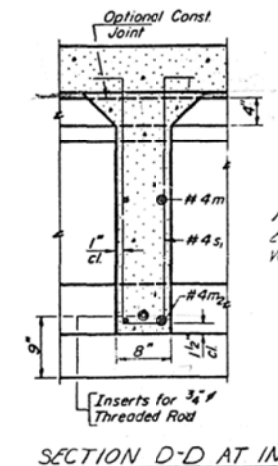
SECTION A-A AT ABUTMENT



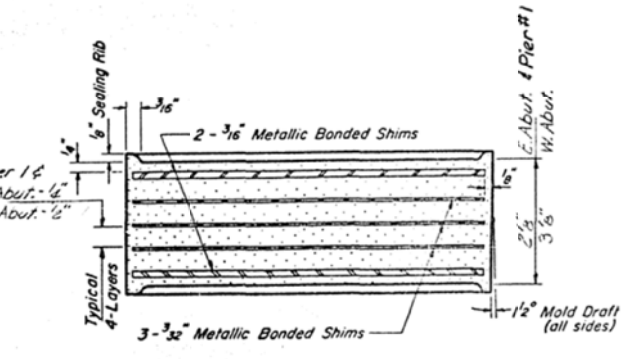
SECTION B-B PIER-1



SECTION C-C PIER-2



SECTION D-D AT INT. DIAPHRAGM



ELASTOMERIC BEARING DETAIL

DESIGNED <i>Jim King</i>	EXAMINED <i>Carl S. Hammond</i>
CHECKED <i>Smith DeLa</i>	PASSED <i>W.E. Baumann</i>
DRAWN <i>D. Derringer</i>	APPROVED <i>W.E. Baumann</i>
CHECKED <i>S.D.</i>	

PI-2J 1-27-66

- ① 7/8" holes at 12" cts for 3/8" bolts set on normal gage line. All bolts shall be burned, sawed or chipped off flush with the back of angles after forms are removed.
 - ② 7/8" vent holes at 12" cts set on 1 1/2" gage line.
 - ③ 3/4" x 8" CR 1020 STL granular or solid flux filled headed studs - automatically end welded (alternate at 1'-0" cts)
 - ④ Pour diaphragm flush with top of beam. Concrete in slab above this line shall be placed not less than 45 minutes nor more than 90 minutes after diaphragm has been poured.
 - ⑤ Hatched area to be poured after Superstructure forms have been removed. Quantity of Class X Concrete included with Superstructure.
- Bars a₃, a₄; m, m₁, m₂; s & s₁ are included in Bill of Material on Sheet # 6

BEARING & FRAMING PLAN
F.A.I. RT. 74 - SEC. 20-1B
DeWITT COUNTY
STA. 816 +90

AS-BUILT PLANS (FOR INFORMATION ONLY)

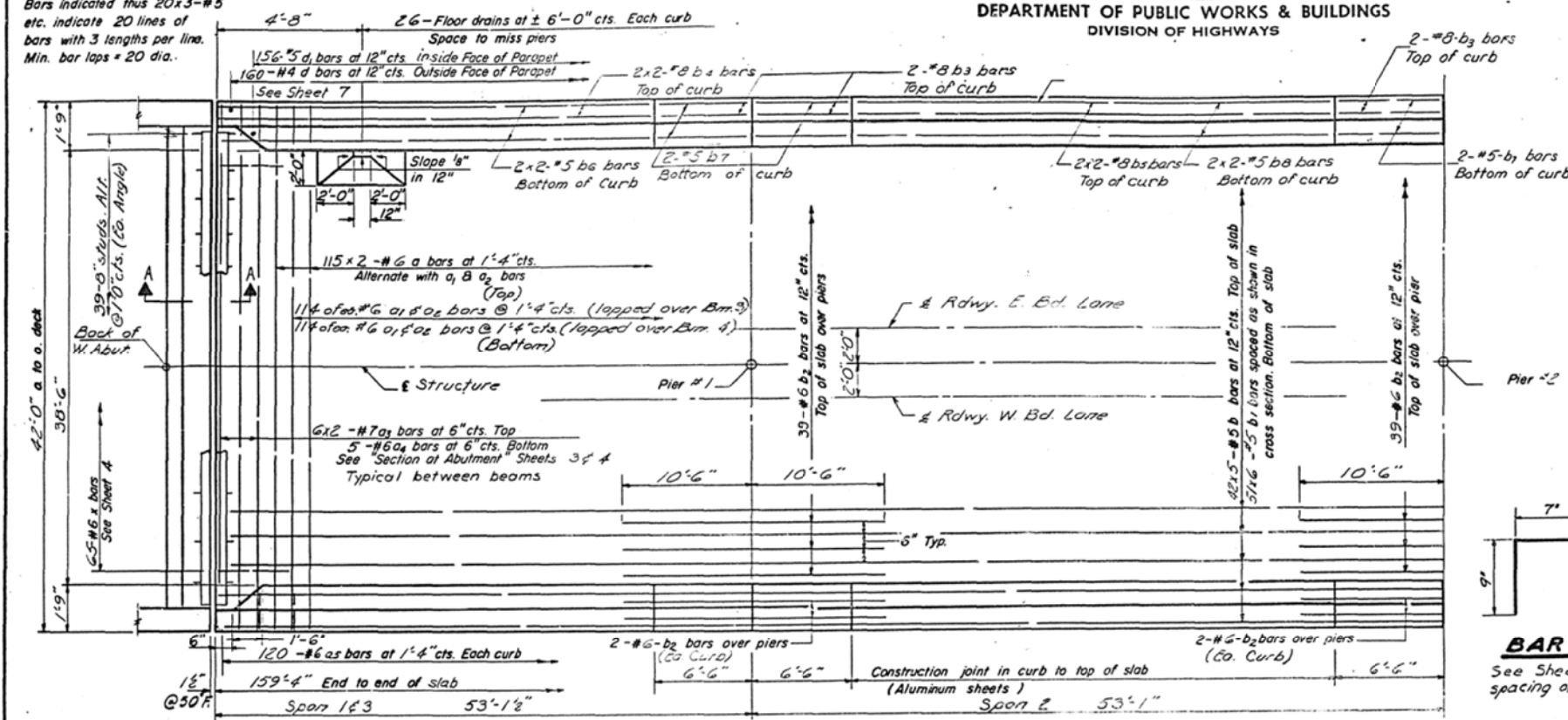
S.N. 020-0032 (EB) & S.N. 020-0033 (WB)

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

PROJECT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	20-18	DeWitt	2.8	10

15 SHEETS

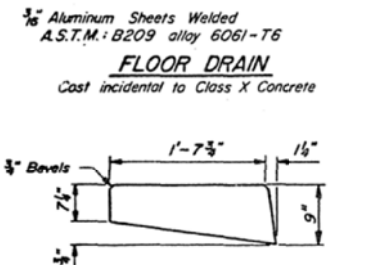
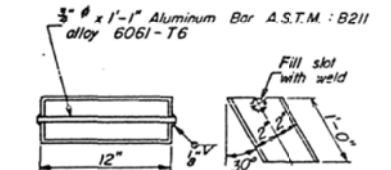
Note:
Bars indicated thus 20x3-#5 etc. indicate 20 lines of bars with 3 lengths per line. Min. bar laps = 20 dia.



See Section A-A Sheet #3

BAR d₂
See Sheet 7 for spacing of d₂ bars

BAR d

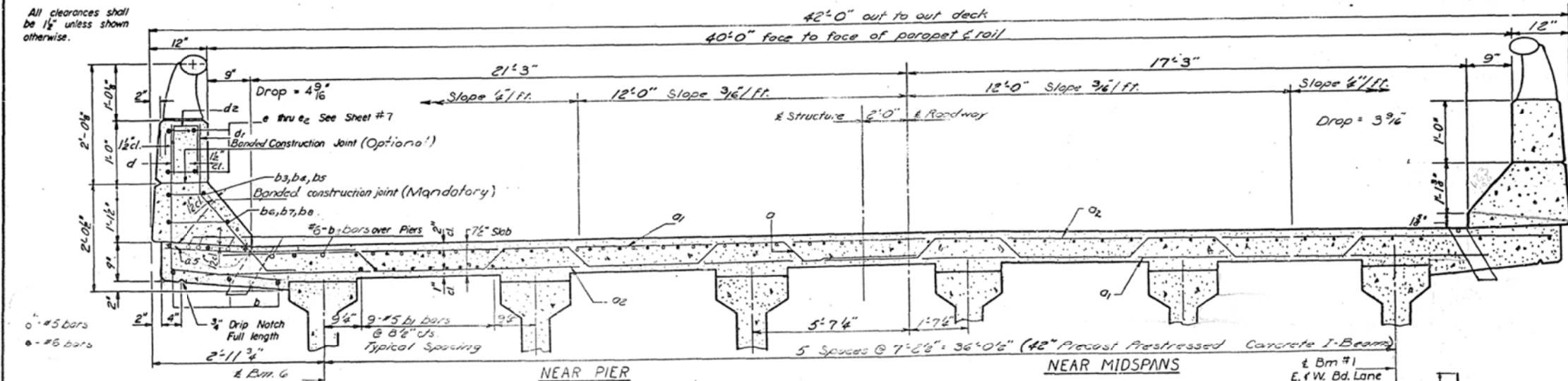


TWO STRUCTURES
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a	460	#6	24'-3"	
a ₁	456	#6	20'-6"	
a ₂	456	#6	27'-6"	
a ₃	48	#7	27'-6"	
a ₄	100	#6	5'-9"	
a ₅	480	#6	4'-0"	
b	420	#5	32'-9"	
b ₁	612	#5	27'-6"	
b ₂	172	#6	21'-0"	
b ₃	32	#8	6'-3"	
b ₄	32	#8	23'-9"	
b ₅	16	#8	20'-9"	
b ₆	32	#5	23'-0"	
b ₇	32	#5	6'-3"	
b ₈	16	#5	20'-0"	
d	640	#4	4'-7"	
d ₁	624	#5	3'-5"	
d ₂	134	#4	2'-1"	
m	140	#4	6'-3"	
m ₁	40	#6	5'-3"	
m ₂	60	#4	5'-6"	
s	100	#4	10'-0"	
s ₁	150	#4	8'-0"	
x	260	#6	8'-0"	
Reinforcement Bars		lbs.	107,710	
Structural Steel		lbs.	4,450	
Class X Concrete		Cu. Yds.	431.5	

For locations and details of bars m, m₁, m₂, s and s₁ see sheets 3 & 4. The quantities of longitudinal reinforcement and concrete in parapets are billed separately on sheet 7 and are not included above. Class X concrete for diaphragms is included above.

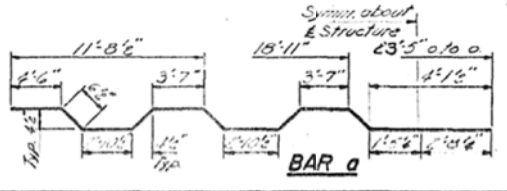
All clearances shall be 1/2" unless shown otherwise.



DESIGNED	Jim King
CHECKED	Smith Jones
DRAWN	James R. Carmain
CHECKED	S. D.

PI-1-0 1-27-66

EXAMINED	Jan 2 1968
PASSED	J. G. Bauman
APPROVED	J. E. Stapp



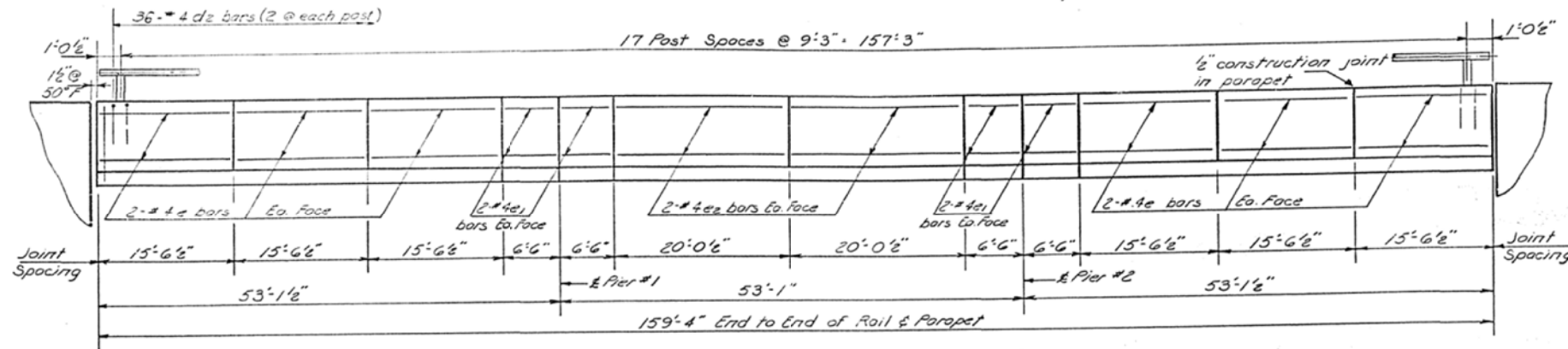
SUPERSTRUCTURE
F.A.I.R.T. 74 ~ SEC. 20-1B
DeWITT COUNTY
STA. 816 + 90

AS-BUILT PLANS (FOR INFORMATION ONLY)

S.N. 020-0032 (EB) & S.N. 020-0033 (WB)

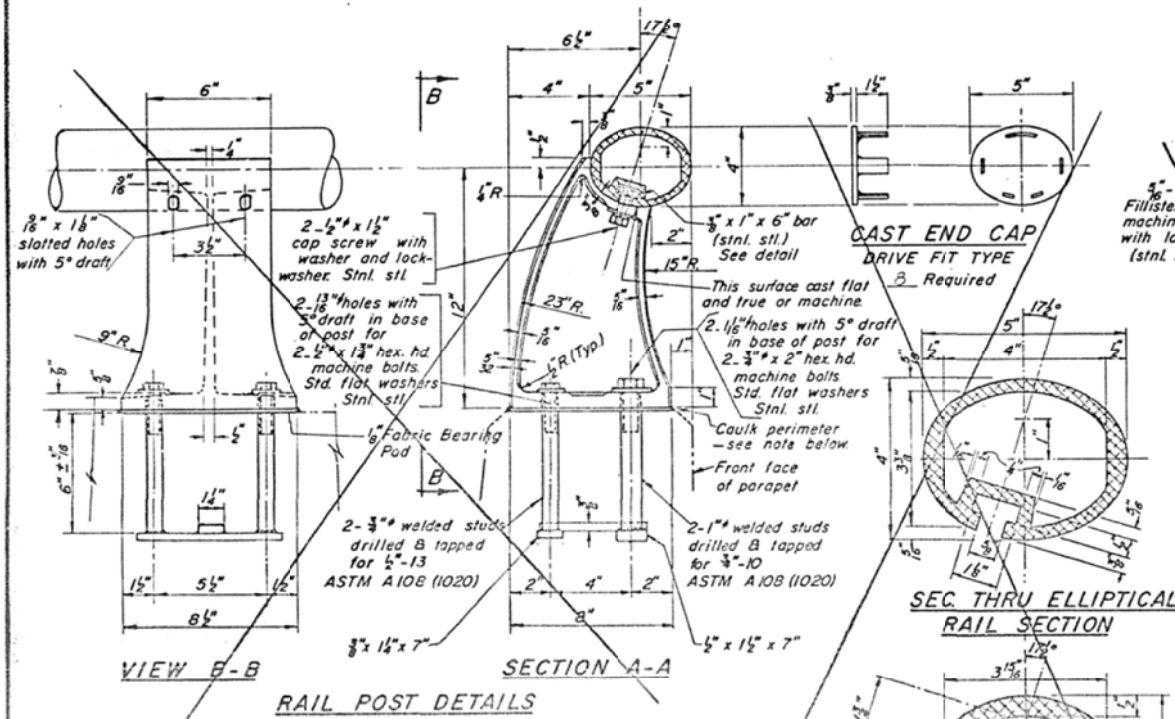
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	MILEAGE	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO.
74	18	DeWitt	28	11	15 SHEETS
FED. ROAD DIST. NO. 7					



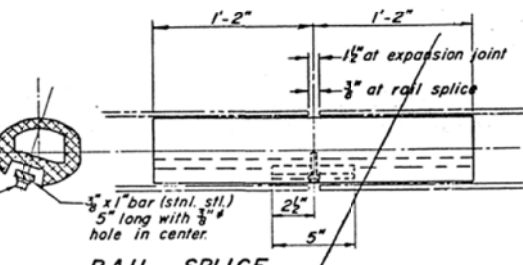
ELEVATION
Along inside face of Parapet

Note: For Railing Details see sheet # 7a.

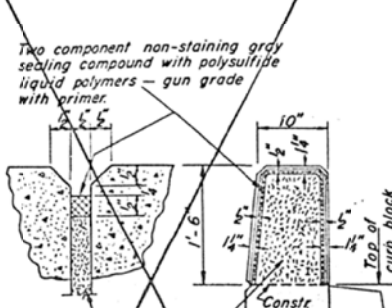


DESIGNED	JAN 2 1968
CHECKED	
DRAWN	
CHECKED	

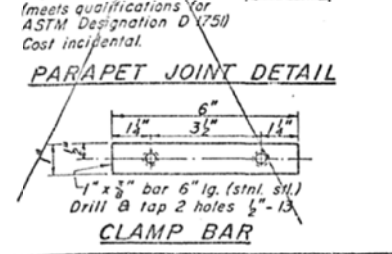
R-17 Rev 10-8-65 1-5-66



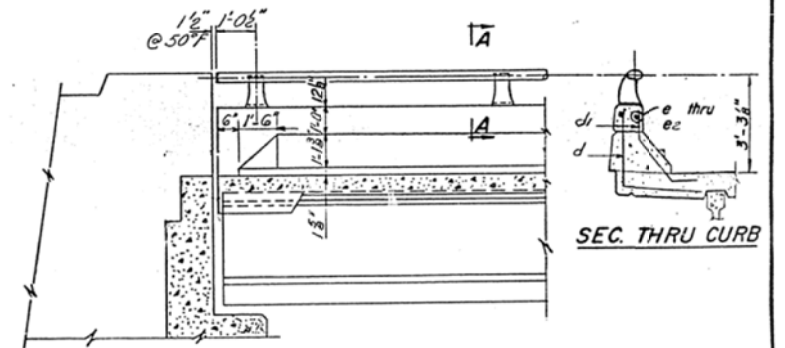
RAIL SPLICE
Notch top of slot in rails to clear 1/8" screw.



PARAPET JOINT DETAIL



CLAMP BAR



INSIDE VIEW AT ABUTMENT

NOTES

All Posts shall be normal to parapet.

All Aluminum Alloy Extruded Rail shall conform to ASTM specification B-221 alloy 6061-T6 and shall extend a minimum of 2 panel lengths (attached to a minimum of 3 posts) except at ends or at open joints where a minimum of 1 panel length is required. All joints in railing must be spliced per detail.

See Special Provisions for following Material Specifications:

Cast Aluminum Alloy Bridge Post— Alloy A344-T4.

Stainless Steel Bars, Cap Screws, Washers and Lockwashers.

Fabric Bearing Pads.

METHOD OF MEASUREMENT: Aluminum handrail shall be measured in lineal feet. The length paid for shall be the over all length along the top longitudinal railing member thru all posts and gaps.

BASIS OF PAYMENT: Aluminum handrail shall be paid for at the contract unit price per lineal foot for ALUMINUM HANDRAIL, measured as specified, which price shall be payment in full for all materials, fabrication, transportation, and erection.

Cost of rail splice, end caps, and hardware to be incidental to item ALUMINUM HANDRAIL.

Provide 1-1/2" and 2-1/8" Aluminum Shims for 25% of the Posts. Rail element shall be parallel to Grade— high spots shall be ground, and low spots shimmed.

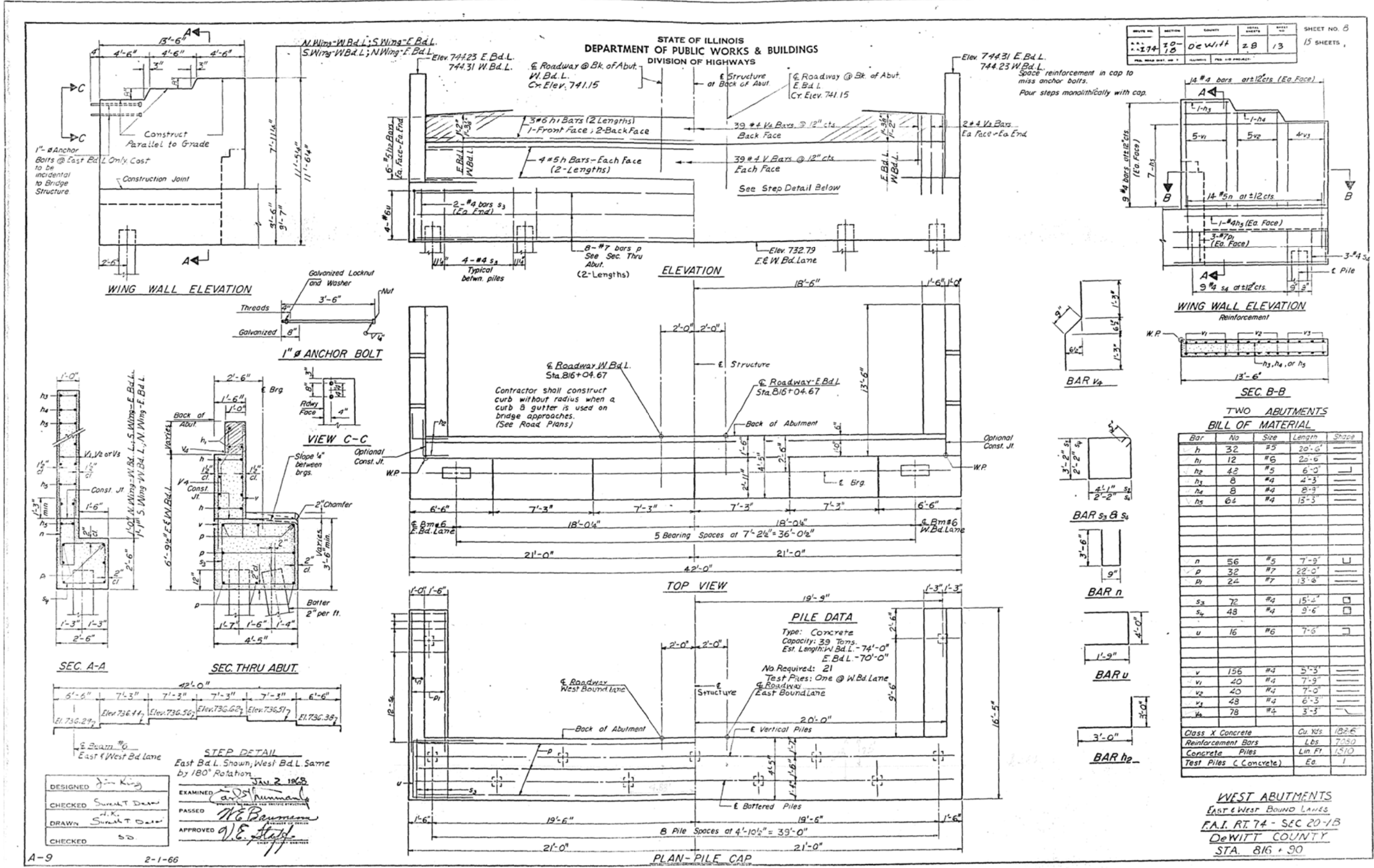
PARAPETS & RAILS
BILL OF MATERIAL

Bar	No.	Size	Length	Shape	
e	26	#4	15'3"		
e1	62	#2	6'3"		
e2	32	#4	19'9"		
				Class X Concrete	Cu Yds. 20.5
				Reinforcement Bars	Lbs 1670
				Aluminum Railing	Lin. Ft. 637

ALUMINUM RAILING
F.A.I. RT 74 - Sec. 00-10
DeWITT COUNTY
STA. 816 + 90

AS-BUILT PLANS (FOR INFORMATION ONLY)

S.N. 020-0032 (EB) & S.N. 020-0033 (WB)



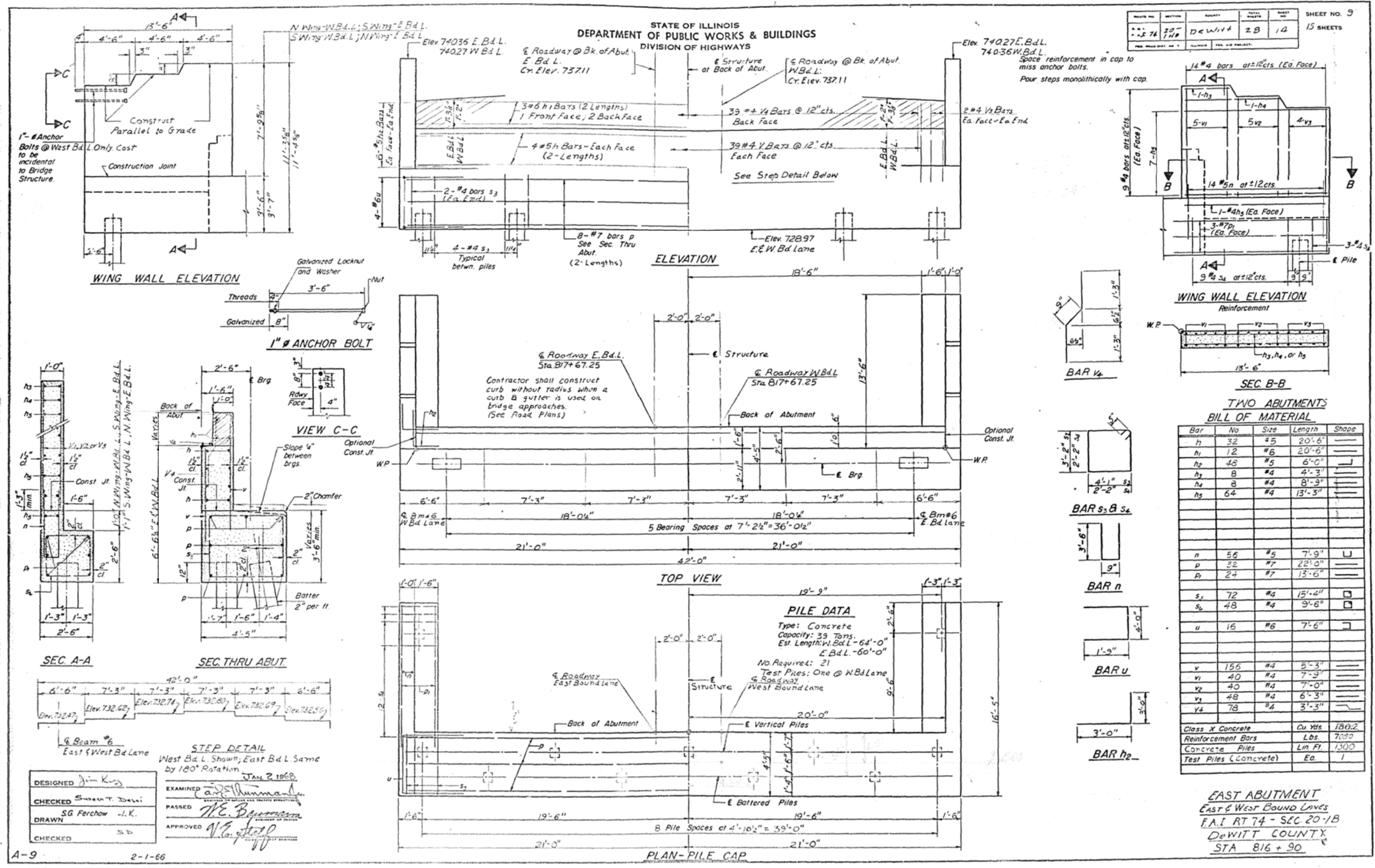
DESIGNED: Jim King
CHECKED: SURET DRAW
DRAWN: SURET DRAW
CHECKED: SD

EXAMINED: [Signature]
PASSED: [Signature]
APPROVED: [Signature]

DATE: 11/29/2011

AS-BUILT PLANS (FOR INFORMATION ONLY)

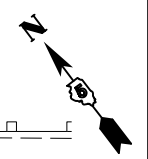
S.N. 020-0032 (EB) & S.N. 020-0033 (WB)



DESIGNED *Jim King*
 CHECKED *Steven T. Delli*
 DRAWN *SG Ferchow - I.K.*
 CHECKED *SD*

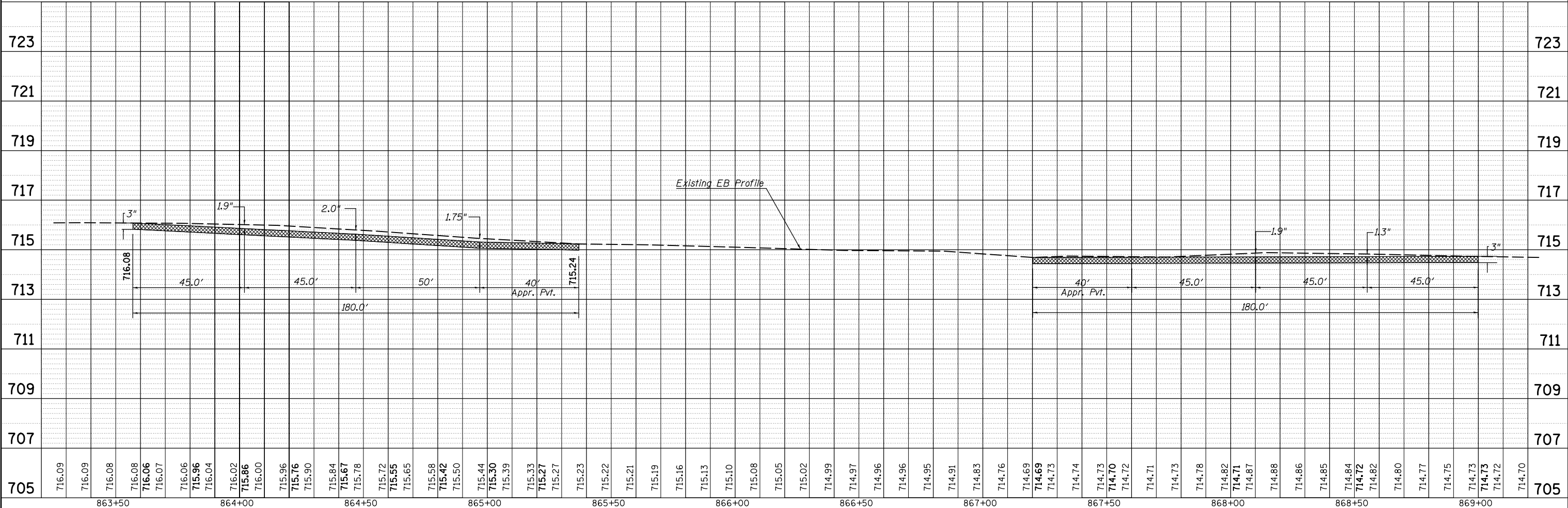
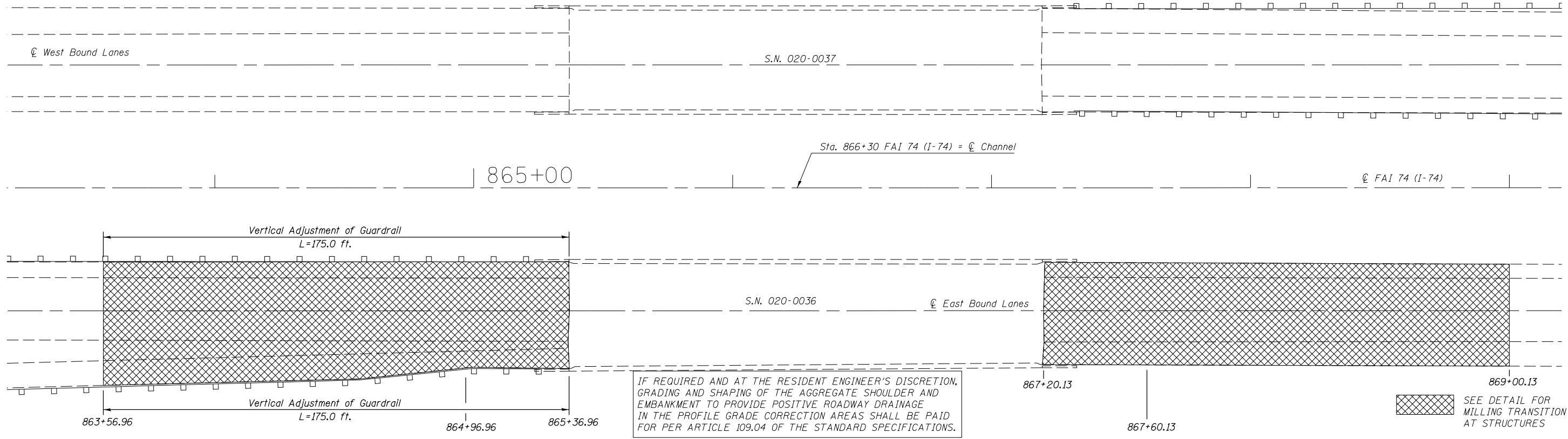
EXAMINED *Carroll Hummer*
 PASSED *W.E. Baumann*
 APPROVED *V.G. Stoff*

JAN 2 1968



PLAN	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NOTE BOOK NO.	
	FILE NAME	

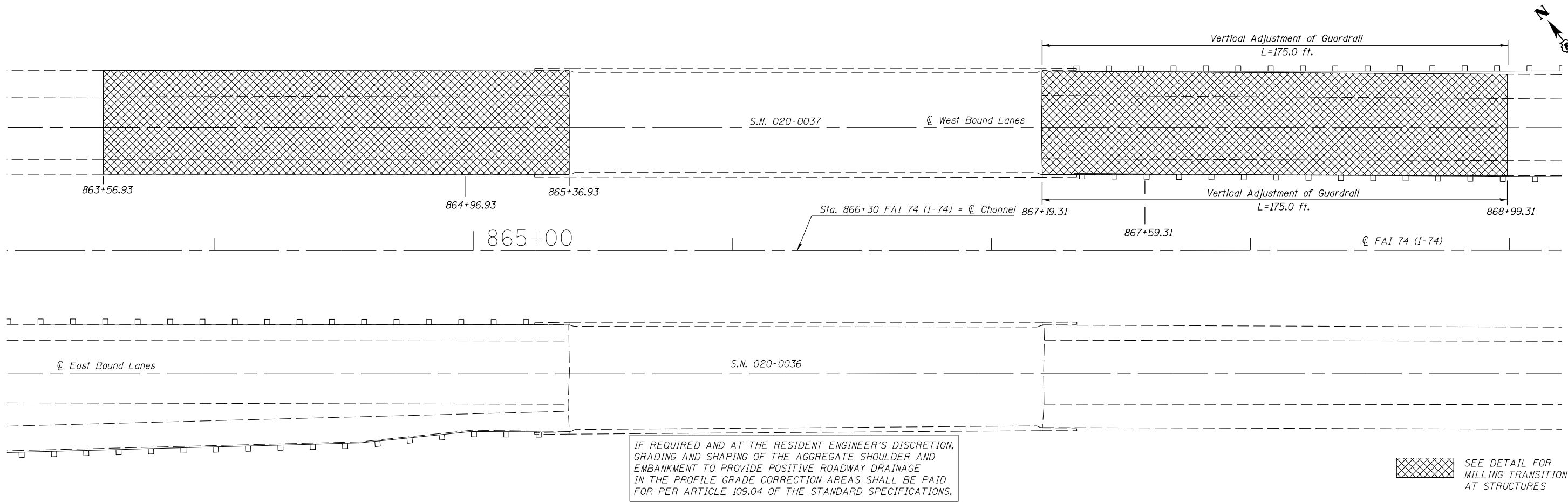
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	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NOTE BOOK NO.	
	FILE NAME	



FILE NAME =	USER NAME = brandenburgtj	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MILLING TRANSITION S.N. 020-0036 (EB)				F.A.I. RTE. 74	SECTION •	COUNTY DEWITT	TOTAL SHEETS 166	SHEET NO. 125
		CHECKED -	REVISED -						CONTRACT NO. 90876				
		DATE -	REVISED -						ILLINOIS FED. AID PROJECT				
									#20-1(HVB,HB-1,VB-1,B,B-1)I				

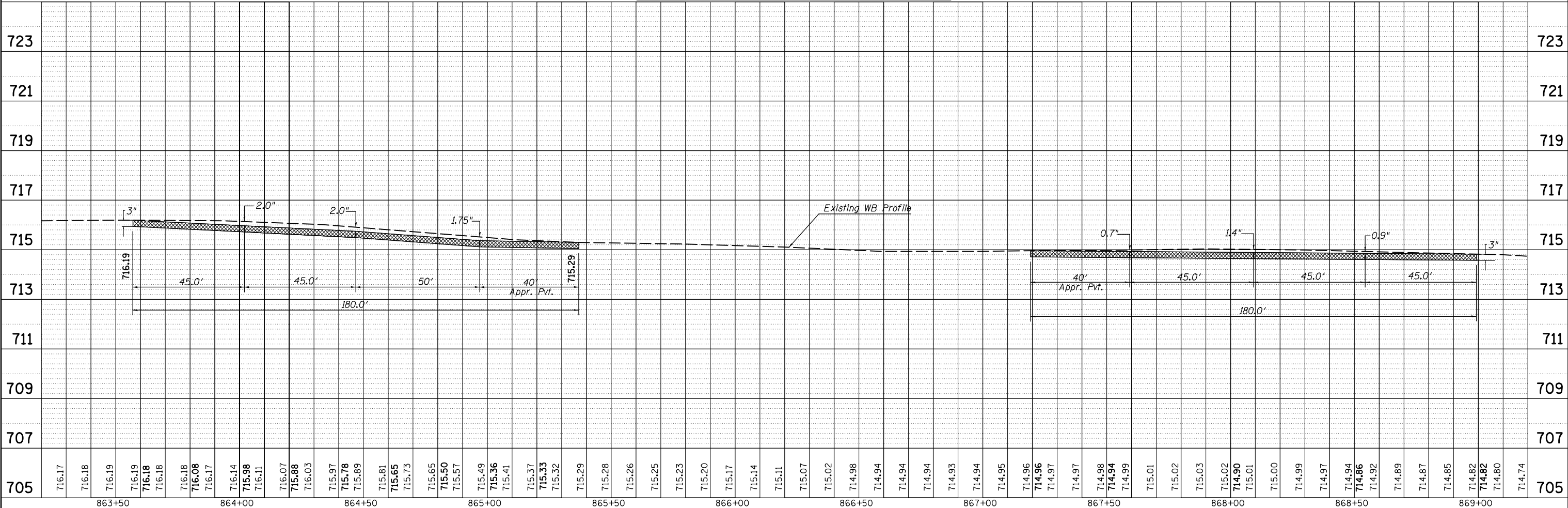
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	PLOTTED	BY
	ALIGNED	
	CHECKED	
	FILED	
	NO.	
	FILE NAME	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NO.	
	FILE NAME	



IF REQUIRED AND AT THE RESIDENT ENGINEER'S DISCRETION, GRADING AND SHAPING OF THE AGGREGATE SHOULDER AND EMBANKMENT TO PROVIDE POSITIVE ROADWAY DRAINAGE IN THE PROFILE GRADE CORRECTION AREAS SHALL BE PAID FOR PER ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.

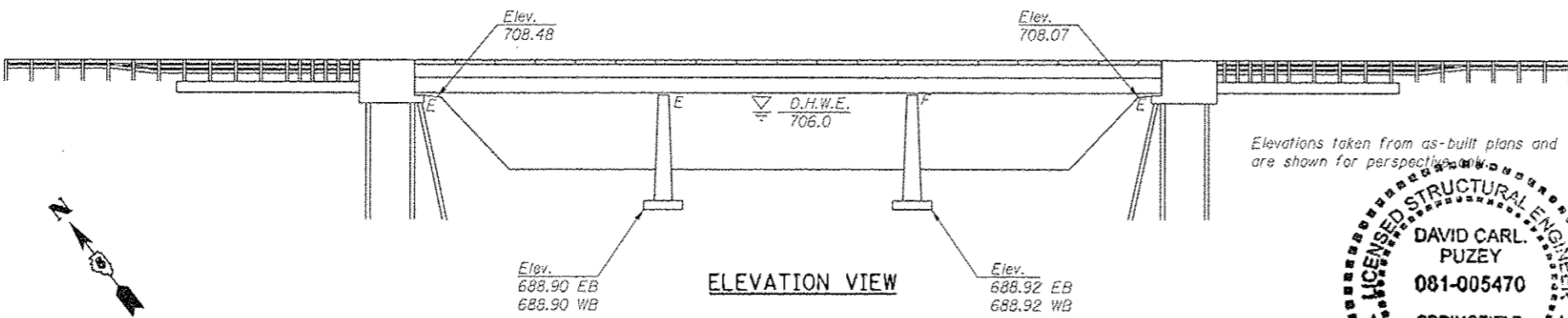
SEE DETAIL FOR MILLING TRANSITION AT STRUCTURES



FILE NAME =	USER NAME = brandenburgtj	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MILLING TRANSITION S.N. 020-0037 (WB)	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		CHECKED -	REVISED -			74	•	DEWITT	166	126	
		DATE -	REVISED -			CONTRACT NO. 90876					
						ILLINOIS FED. AID PROJECT					

The existing structures were built in 1970 as Route FAI-74, Section 20-18-1 at Sta. 866+30 in DeWitt County. The structures carry I-74 over Salt Creek east of Farmor City. In 1975 a waterproofing membrane and HMA wearing surface was placed under Section D5 Bridge Deck Waterproofing 1975-3, Contract 29686. In 1989 new joints were installed with Section D5 Bridge Repair, Contract 90004. In 2004 the HMA wearing surface was removed and replaced with Section 743RS-2, 4-1-RS-11, Contract 70027.

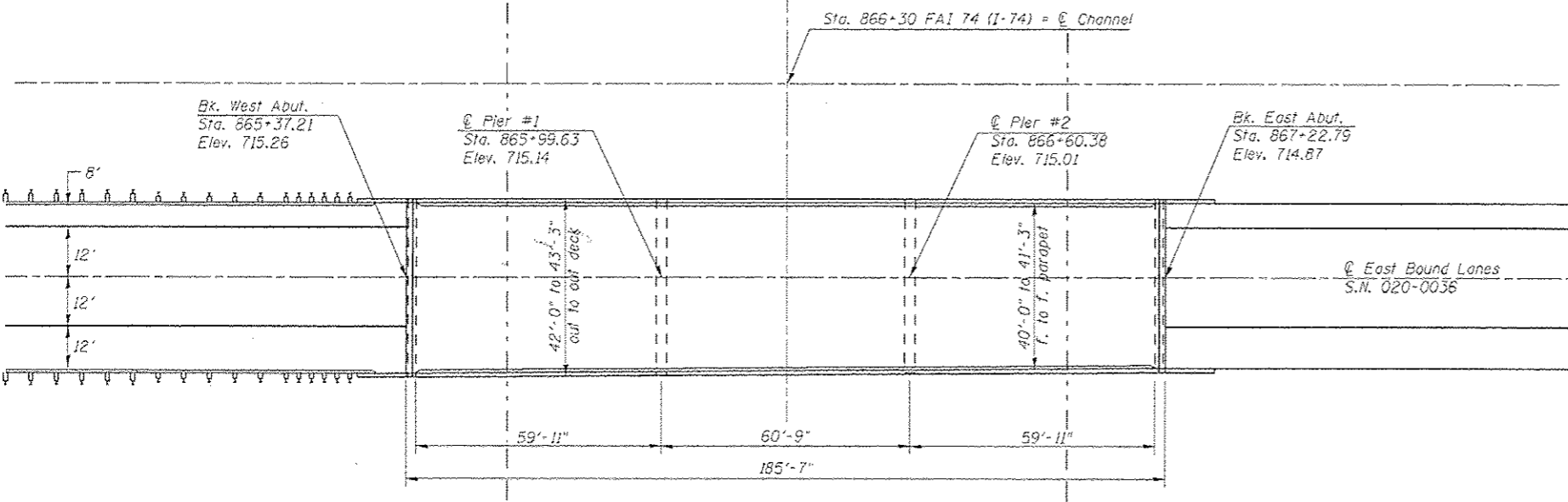
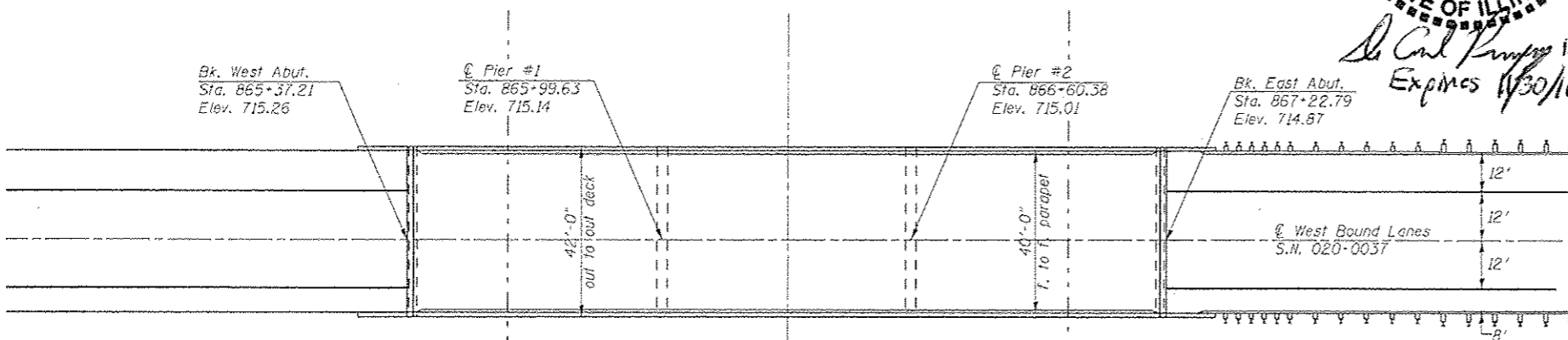
The superstructure consists of six 48" Precast Prestressed Concrete I-Beams supporting a 7 1/2" R.C. deck and 1 3/4" HMA wearing surface with waterproofing membrane system. The substructure consists of concrete pile supported stub abutments and piers supported by spread footings. The structures measure 185'-7" bk. to bk. abutments. The spans measure 59'-11", 60'-9", and 59'-11". The north structure measures 42'-0" out to out of deck with a horizontal clearance is 38'-6" from face to face of hub guard. The south structure has an out to out width that varies from 42'-0" to 43'-3" and a horizontal clearance that varies from 38'-6" to 39'-9" face to face of parapet and rail.



Elevations taken from as-built plans and are shown for perspective.



David Carl Puzey 12/1/15
Expires 11/30/16



PLAN VIEW

PROPOSED WORK

1. Remove Existing Waterproofing Membrane System and H.M.A. Wearing Surface.
2. Mill Existing H.M.A. Wearing Surface at Milling Transition Locations at ends of Structures.
3. Perform Bridge Deck Scarification on Bridge Deck and Approach Slabs.
4. Partial Removal of Deck Ends, Parapets, and Removal of Hatch Block.
5. Removal of Existing Joints.
6. Perform Full-Depth Patching.
7. Place New Floor Drains in Deck.
8. Replace Existing Bearings with Elastomeric Bearings at Abutments.
9. Place Reinforcement Bars, Locking Edge Rail, and Studs.
10. Pour Deck Ends and Hatch Block.
11. Insert Rubber Strip Seal into Locking Edge Rails.
12. Pour Parapet Ends.
13. Place Latex Concrete Overlay on Bridge Deck and Approach Slabs.
14. Place HMA Overlay on Approach Pavements and Milling Transition.

BILL OF MATERIALS

ITEM	UNIT	TOTAL
HOT-MIX ASPHALT SURFACE REMOVAL (DECK)	SQ YD	1,556.0
BRIDGE DECK SCARIFICATION, 3/4"	SQ YD	2,001.0
BRIDGE DECK LATEX CONCRETE OVERLAY, 2 1/2"	SQ YD	2,001.0
BRIDGE DECK GROOVING	SQ YD	1,937.0
PROTECTIVE COAT	SQ YD	45.0
JACK AND REMOVE EXISTING BEARINGS	EACH	24.0
ELASTOMERIC BEARING ASSEMBLY, TYPE II	EACH	24.0
ANCHOR BOLTS, 1"	EACH	48.0
DECK SLAB REPAIR (FULL DEPTH, TYPE I)	SQ YD	42.0
CONCRETE REMOVAL	CU YD	16.4
BAR SPLICERS	EACH	28.0
REINFORCEMENT BARS, EPOXY COATED	POUND	2,060.0
CONCRETE SUPERSTRUCTURE	CU YD	16.4
PREFORMED JOINT STRIP SEAL	FOOT	177.2
STRUCTURAL REPAIR OF CONCRETE (DEPTH < or = 5 INCHES)	SQ FT	85.0
STRUCTURAL REPAIR OF CONCRETE (DEPTH GREATER THAN 5 INCHES)	SQ FT	24.0
POLYMER MODIFIED PORTLAND CEMENT MORTAR	SQ FT	27.0
PUMPBABLE CONCRETE MIX	CU FT	6.0
FLOOR DRAINS	EACH	40.0
POLYMERIZED LEVELING BINDER (MACHINE METHOD), N105	TON	126.0
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N105	TON	126.0
HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	3,310.0
VERTICAL ADJUSTMENT OF GUARDRAIL	FOOT	700.0

GENERAL NOTES

The deck ends and hatch blocks shall have its final surface tined according to Article 420.09 (e) (1) of the Standard Specifications. Cost to be included with concrete superstructure.

Plan dimensions and details relative to the existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make the necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of work. However, the Contractor will be paid for the quantity actually furnished at the unit price for the work.

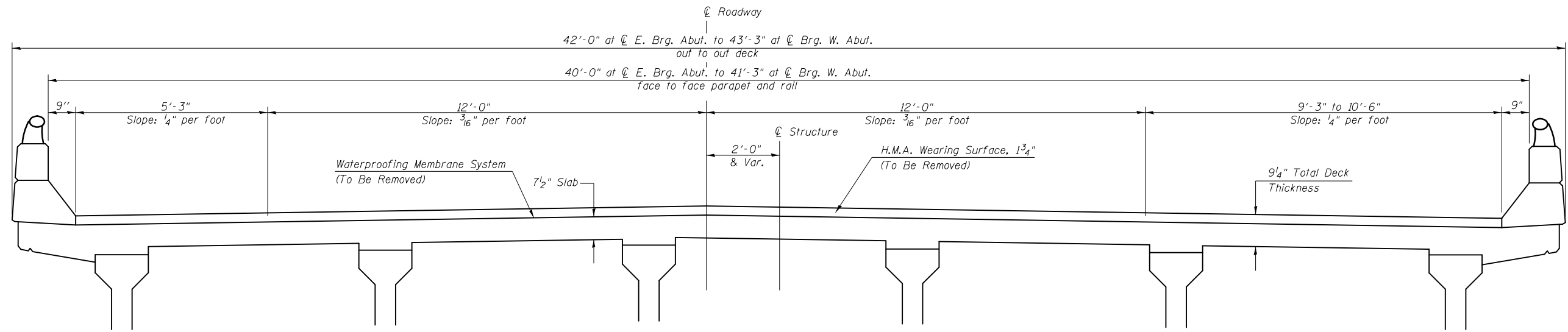
Reinforcement bars designated (E) shall be epoxy coated.

Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose or potentially detrimental foreign material shall be removed from the surface in contact with concrete. Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be included in the pay item covering removal of the existing concrete.

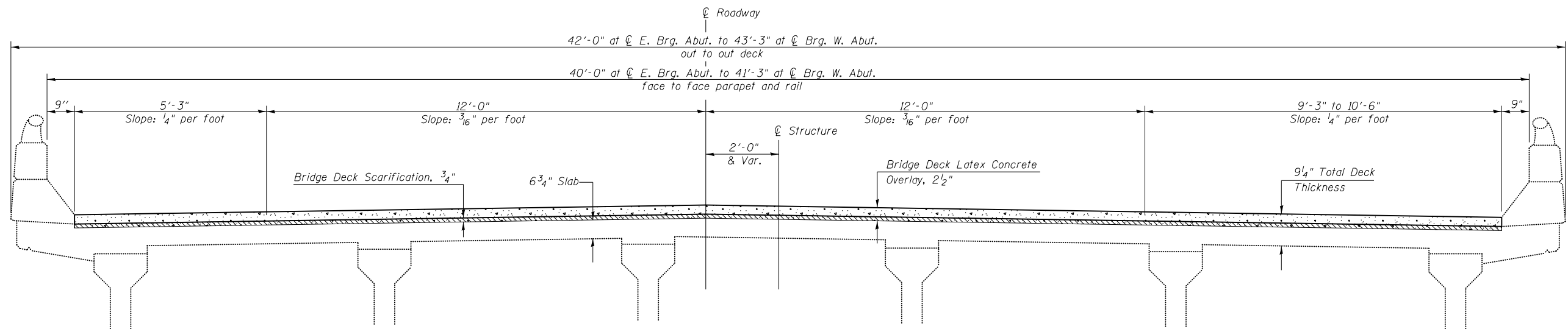
Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.

Joint openings shall be adjusted according to article 520.04 of the Std. Specs. when the deck is poured at an ambient temperature other than 50° F.

EXISTING CROSS SECTION S.N. 020-0036 (EB)



PROPOSED CROSS SECTION S.N. 020-0036 (EB)

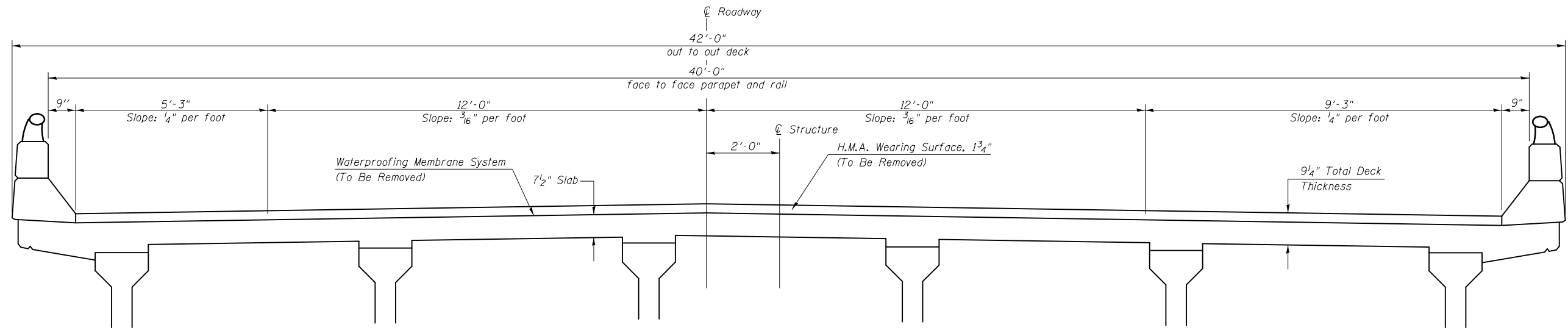


•20-1(HVB,HB-1,VB-1,B,B-1)I

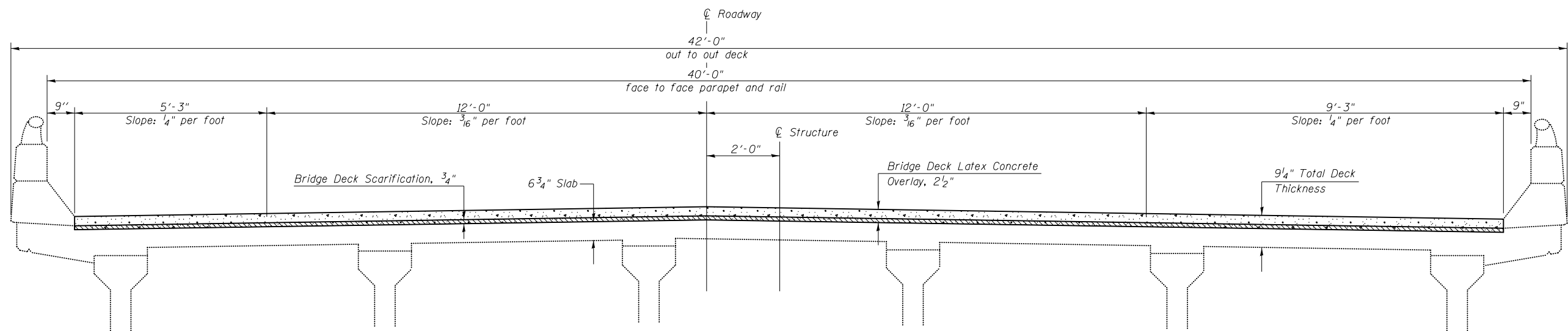
FILE NAME =	USER NAME = brandenburgtj	DESIGNED <i>RTC</i>	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING AND PROPOSED TYPICAL CROSS SECTIONS S.N. 020-0036 (EB)	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
pw:\IL\084EBID\INTEG.illinois.gov\PWIDOT\Documents\DOT Offices\District 5\Projects\0504\Drawings\084EBID\084EBID-Details.sht		DRAWN <i>TJB</i>	REVISED -			74	*	DEWITT	166	128	
PLOT SCALE = 40.0000' / in.		CHECKED <i>TJB</i>	REVISED - <i>TJB</i>			CONTRACT NO. 90876					
PLOT DATE = 10/13/2015		DATE <i>11/29/2011</i>	REVISED - 9/9/2015			ILLINOIS FED. AID PROJECT					

SCALE: SHEET 2 OF 31 SHEETS STA. TO STA.

EXISTING CROSS SECTION S.N. 020-0037 (WB)



PROPOSED CROSS SECTION S.N. 020-0037 (WB)



•20-1(HVB,HB-1,VB-1,B,B-1)I

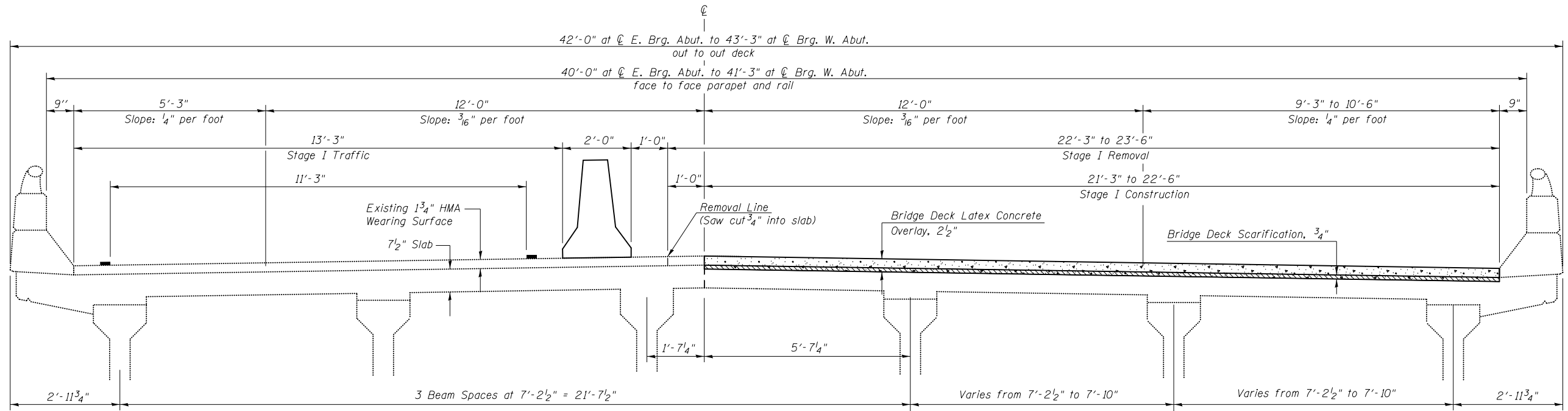
FILE NAME =	USER NAME = brandenburgtj	DESIGNED <i>RTC</i>	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING AND PROPOSED TYPICAL CROSS SECTIONS S.N. 020-0037 (WB)	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
pw:\IL\084EBIDINTEG\illinois.gov\PWIDOT\Documents\DOT Offices\District 5\Projects\0504\Drawings\03\03-Details\90876-details.sht		DRAWN <i>TJB</i>	REVISED -			74	*	DEWITT	166	129	
PLOT SCALE = 40.0000' / in.		CHECKED <i>TJB</i>	REVISED - TJB			CONTRACT NO. 90876					
PLOT DATE = 10/13/2015		DATE <i>11/29/2011</i>	REVISED - 9/9/2015			ILLINOIS FED. AID PROJECT					

SCALE: SHEET 3 OF 31 SHEETS STA. TO STA.

STAGE I CONSTRUCTION DETAIL

S.N. 020-0036 (EB)

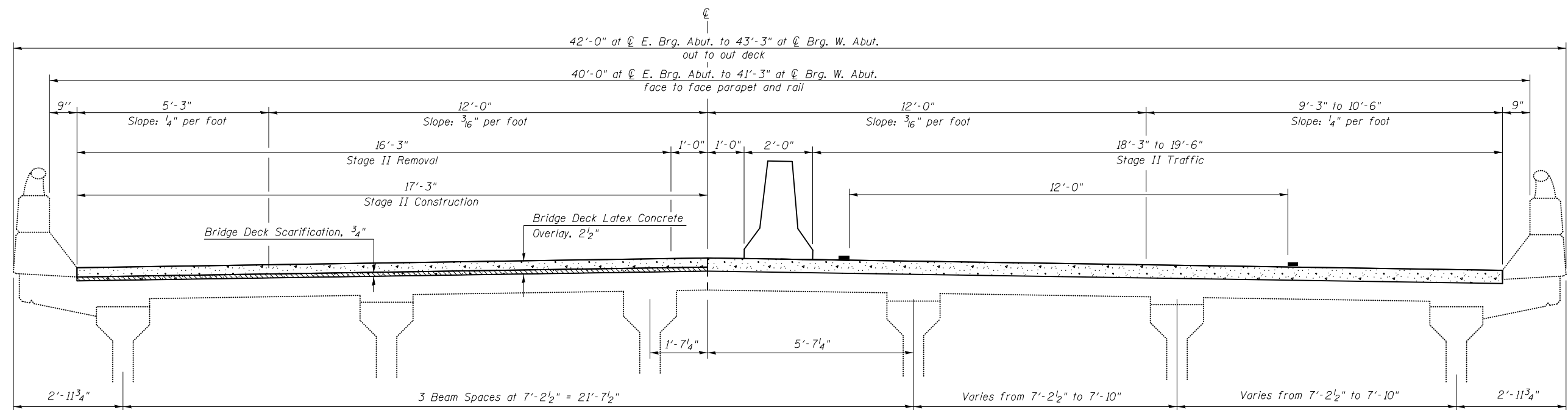
Looking East on East Bound Structure



STAGE II CONSTRUCTION DETAIL

S.N. 020-0036 (EB)

Looking East on East Bound Structure



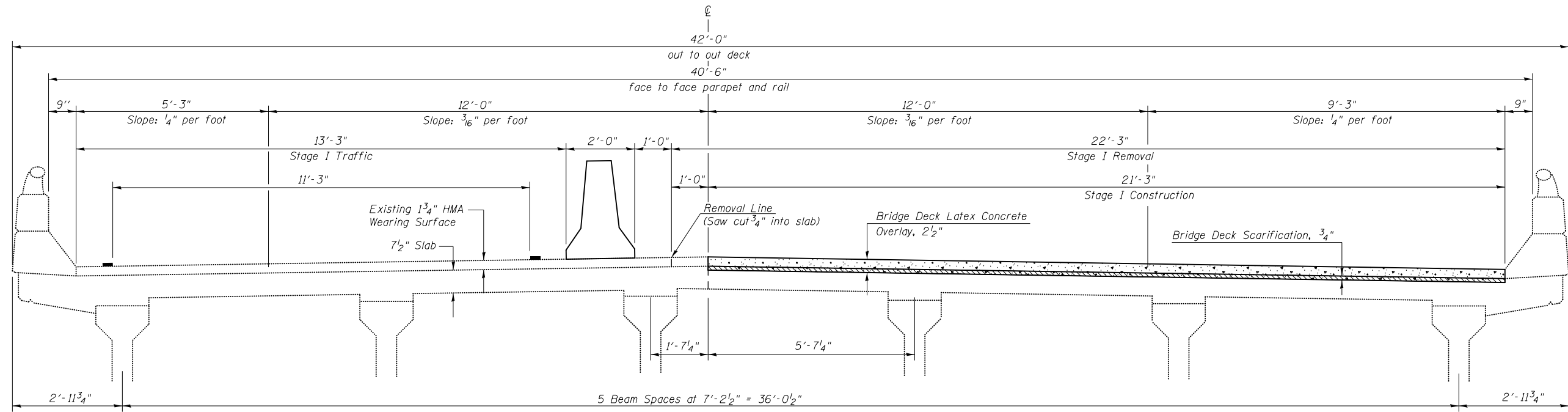
•20-1(HVB,HB-1,VB-1,B,B-1)I

FILE NAME =	USER NAME = brandenburgtj	DESIGNED <i>RTC</i>	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGED CONSTRUCTION DETAILS S.N. 020-0036 (EB)			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT SCALE = 40.0000' / in.		DATE <i>11/29/2011</i>	REVISED -		CONTRACT NO. 90876							
PLOT DATE = 10/13/2015			REVISED -		ILLINOIS FED. AID PROJECT							
				SCALE:	SHEET 4	OF 31	SHEETS	STA.	TO STA.			

STAGE I CONSTRUCTION DETAIL

S.N. 020-0037 (WB)

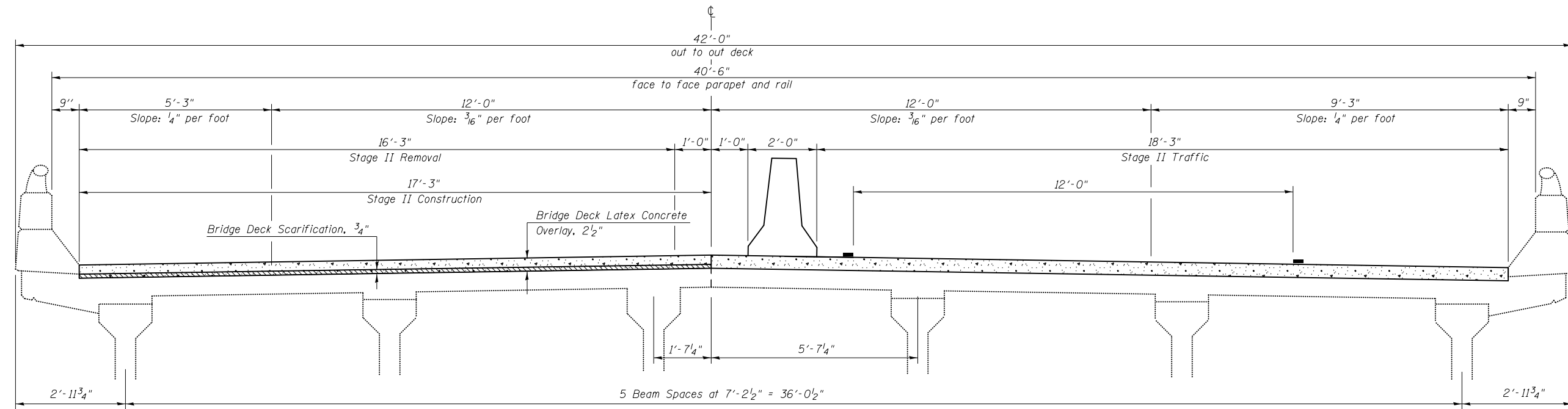
Looking West on West Bound Structure



STAGE II CONSTRUCTION DETAIL

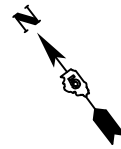
S.N. 020-0037 (WB)

Looking West on West Bound Structure



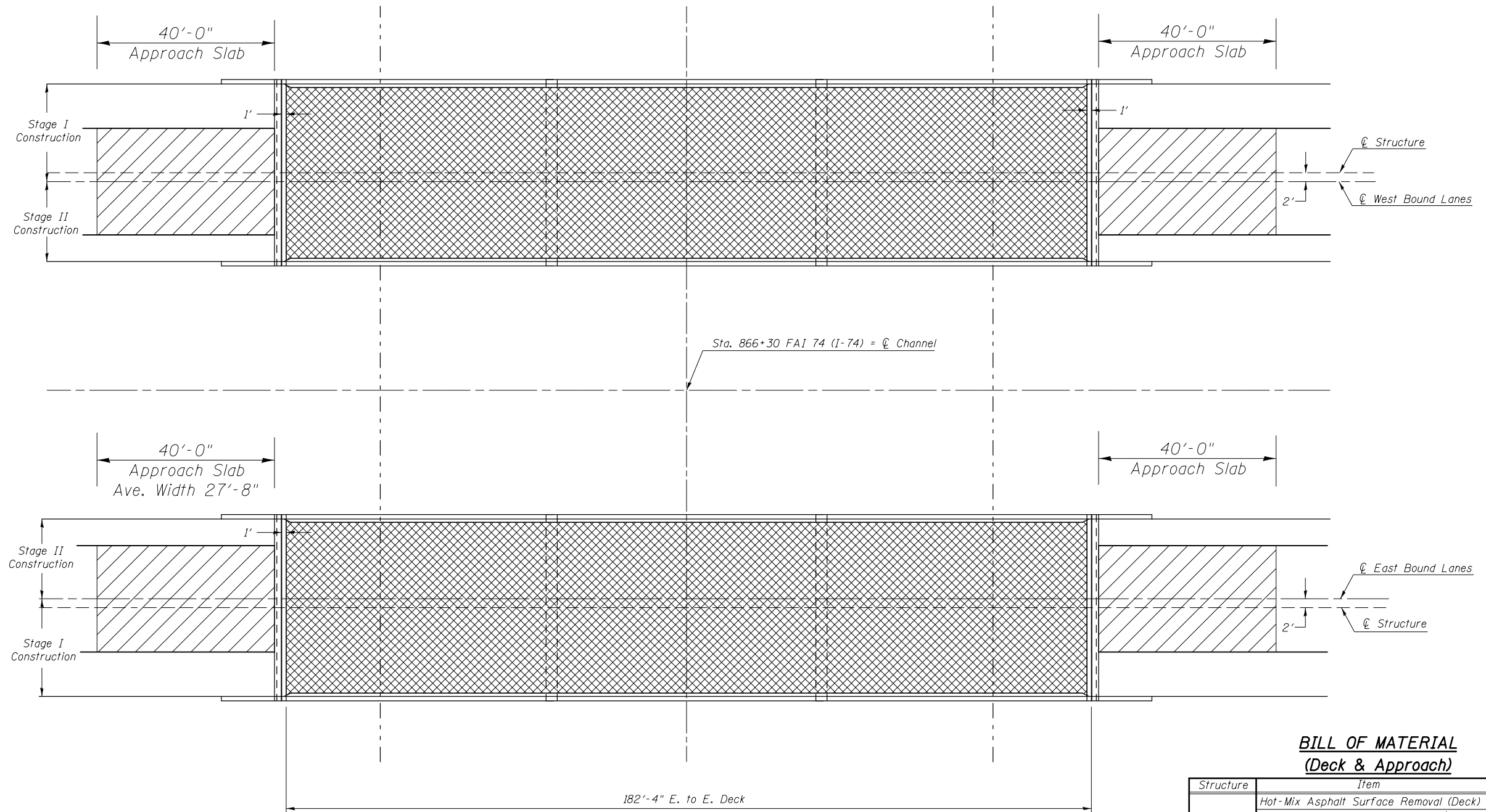
•20-1(HVB,HB-1,VB-1,B,B-1)I

FILE NAME =	USER NAME = brandenburgtj	DESIGNED <i>RTC</i>	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGED CONSTRUCTION DETAILS S.N. 020-0037 (WB)	F.A.I. RTE. =	SECTION =	COUNTY =	TOTAL SHEETS =	SHEET NO. =	
pw:\IL\084EBIDINTEG\illinois.gov\PIWIDOT\Documents\DOT Offices\District 5\Projects\0504\BROWNSVILLE\90876-details.sht	DRAWN <i>TJB</i>	CHECKED <i>TJB</i>	REVISED -			74	*	DEWITT	166	131	
PLOT SCALE = 40.0000' / in.	DATE <i>11/29/2011</i>	DATE <i>11/29/2011</i>	REVISED -			CONTRACT NO. 90876					
PLOT DATE = 10/13/2015						ILLINOIS FED. AID PROJECT					



WEARING SURFACE PLAN

S.N. 020-0036 (EB) & S.N. 020-0037 (WB)



BILL OF MATERIAL (Deck & Approach)

Structure	Item	Unit	Total
020-0036	Hot-Mix Asphalt Surface Removal (Deck)	Sq Yd	784.0
	Bridge Latex Concrete Overlay, 2 1/2"	Sq Yd	1,015.0
	Bridge Deck Scarification, 3/4"	Sq Yd	1,015.0
	Bridge Deck Grooving	Sq Yd	983.0
020-0037	Hot-Mix Asphalt Surface Removal (Deck)	Sq Yd	772.0
	Bridge Latex Concrete Overlay, 2 1/2"	Sq Yd	986.0
	Bridge Deck Scarification, 3/4"	Sq Yd	986.0
	Bridge Deck Grooving	Sq Yd	954.0

- H.M.A. Wearing Surface Removal (Deck) or (Asbestos) & Bridge Deck Latex Concrete Overlay
- HMA Surface Removal, Variable Depth; Bridge Deck Scarification 3/4" and Bridge Deck Latex Concrete Overlay 2 1/2" (varies to 4")

FILE NAME =	USER NAME = brandenburgtj	DESIGNED <i>RTC</i>	REVISED -
pw:\IL\084EBIDINTEG\illinois.gov\PWIDOT\Documents\DOT Offices\District 5\Projects\0504\Drawings\90876-details.sht	DRAWN <i>RT</i>	CHECKED <i>TJB</i>	REVISED -
	PLOT SCALE = 40.0000' / in.	DATE <i>11/29/2011</i>	REVISED -
	PLOT DATE = 10/13/2015		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

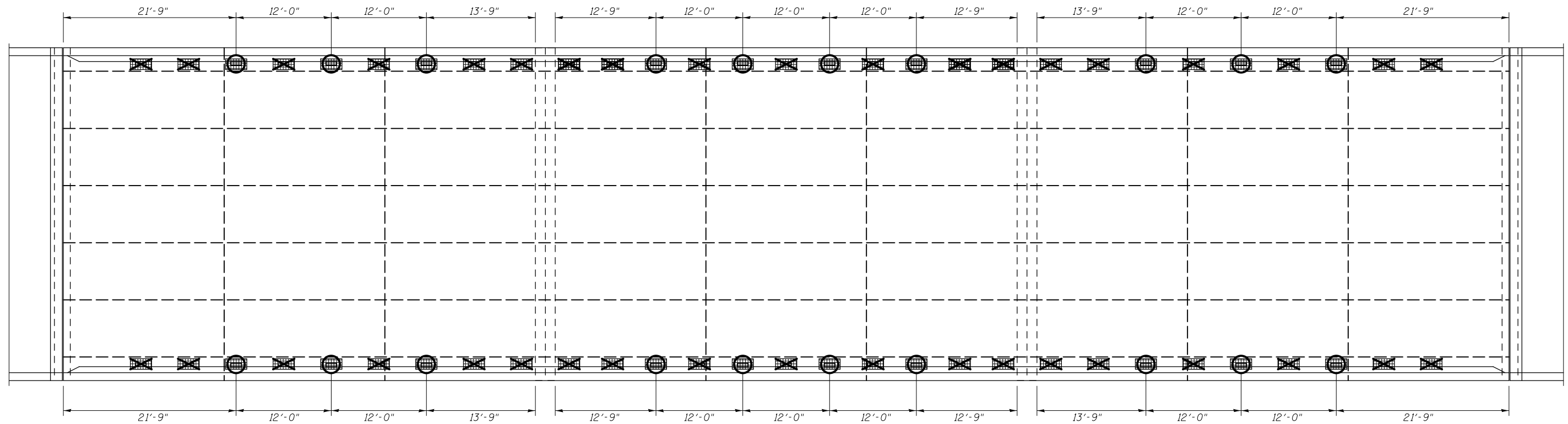
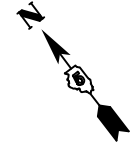
WEARING SURFACE PLAN	
S.N. 020-0036 (EB) & S.N. 020-0037 (WB)	
SCALE:	SHEET 6 OF 31 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	*	DEWITT	166	132
CONTRACT NO. 90876				
ILLINOIS FED. AID PROJECT				

*20-1(HVB,HB-1,VB-1,B,B-1)I

FLOOR DRAIN & PATCHING DETAILS

S.N. 020-0036 (EB) & S.N. 020-0037 (WB)



PLAN VIEW
Either Structure

LEGEND

- Eliminate floor drain
 - Proposed floor drain location
 - Deck Slab Repair (Full Depth, Type I) at all Drain Locations.
All repair areas are 2'-0" x 1'-0", unless otherwise noted.
- See next sheet for details associated with proposed floor drains*

NOTES:

Patch sizes shown represent conditions at the time the plans were completed. An Estimated 1% of the Deck Area has been included should additional Deck Slab Repair (Full Depth, Type I) be required after Bridge Deck Scarification.

The actual sizes and locations of patching shall be determined by the engineer. The Engineer shall show the actual locations of the deck repairs on this sheet.

The existing drains and extensions shall be removed. Cost included with "Deck Slab Repair (Full Depth, Type I)".

Extreme care must be used when removing concrete near the top flange of the beams. The contractor is responsible for any damage to the beams.

BILL OF MATERIAL

Structure	Item	Unit	Total
020-0036	Deck Slab Repair (Full Depth, Type I)	Sq Yd	21.0
020-0037	Deck Slab Repair (Full Depth, Type I)	Sq Yd	21.0

•20-1(HVB,HB-1,VB-1,B,B-1)I

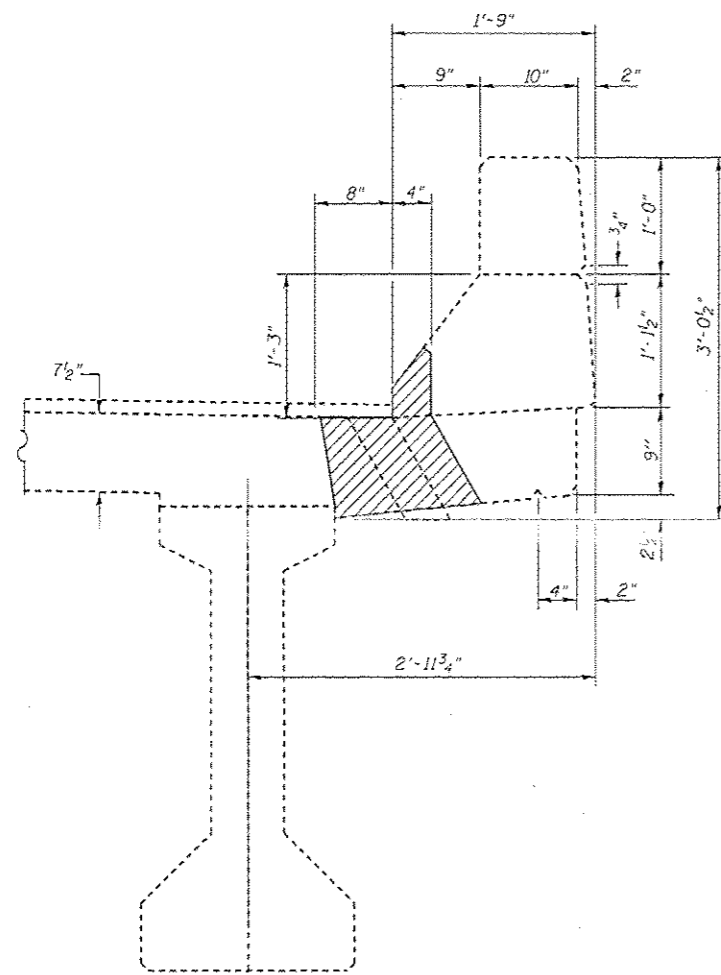
FILE NAME =	USER NAME = brandenburgtj	DESIGNED <i>RTC</i>	REVISED -
pw:\IL\084EBIDINTEG.illinois.gov\PWIDOT\Documents\DOT Offices\District 5\Projects\0504\Drawings\90876-details.sht	4/27/2011	CHECKED <i>TJB</i>	REVISED - <i>TJB</i>
PLOT SCALE = 40.0000' / in.	DATE <i>11/29/2011</i>	DATE	REVISED - 9/9/2015

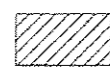
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

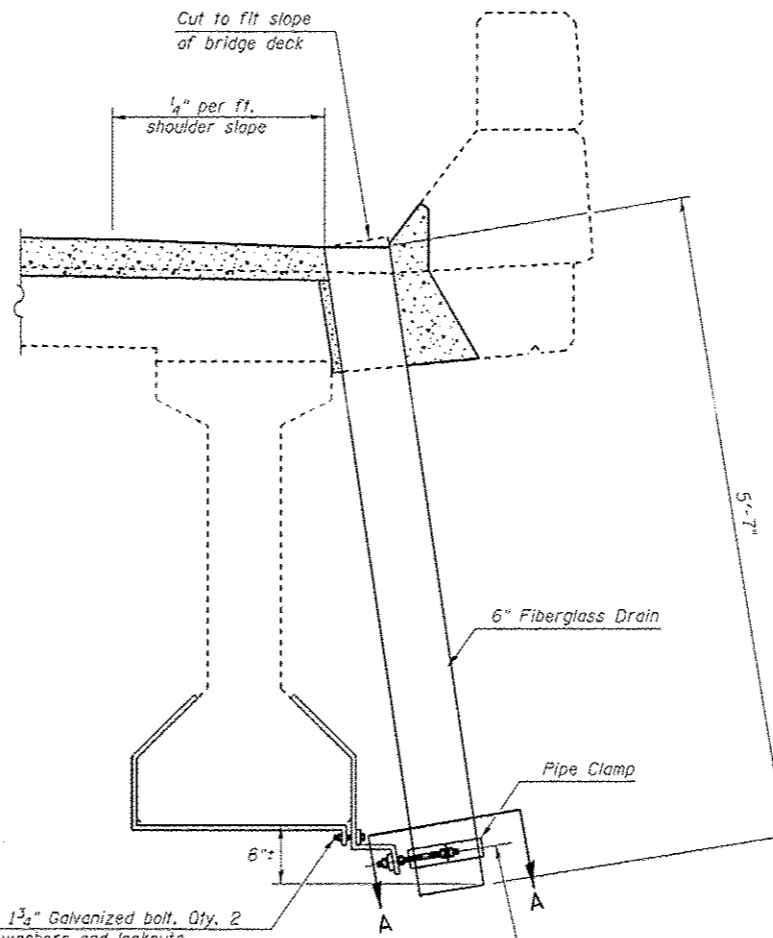
**FLOOR DRAIN AND PATCHING DETAILS
S.N. 020-0036 (EB) & S.N. 020-0037 (WB)**

SCALE: SHEET 7 OF 31 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	*	DEWITT	166	133
CONTRACT NO. 90876			ILLINOIS FED. AID PROJECT	

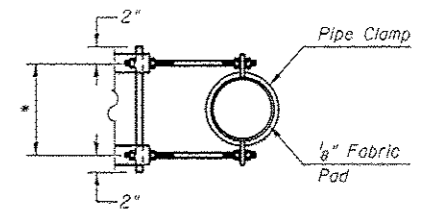


 Removal Limits for Deck Slab Repair (Full-Depth, Type I) at Drain Locations



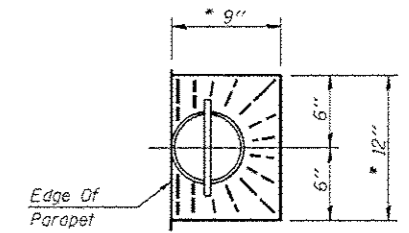
1/4" x 1 3/4" Galvanized bolt, Qty. 2
With washers and locknuts

3/4" φ x 9", Min. steel stud bolts threaded 6" each end with 2 washers and locknuts. 1/16" φ holes in wind brace.



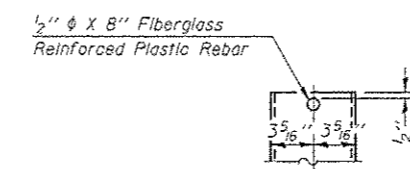
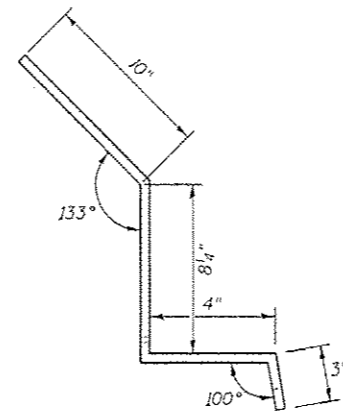
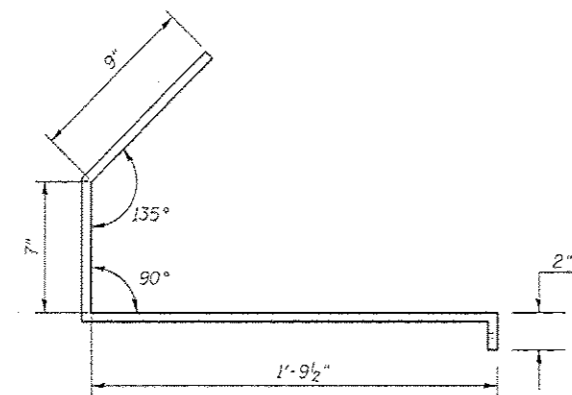
SECTION A-A
Drain Clamp

* Dimension as required by Pipe Clamp



TOP PLAN

• SLOPE TO DRAIN



FIBERGLASS PIPE

NOTES:

All dimensions shall be field verified by the contractor prior to ordering of materials.

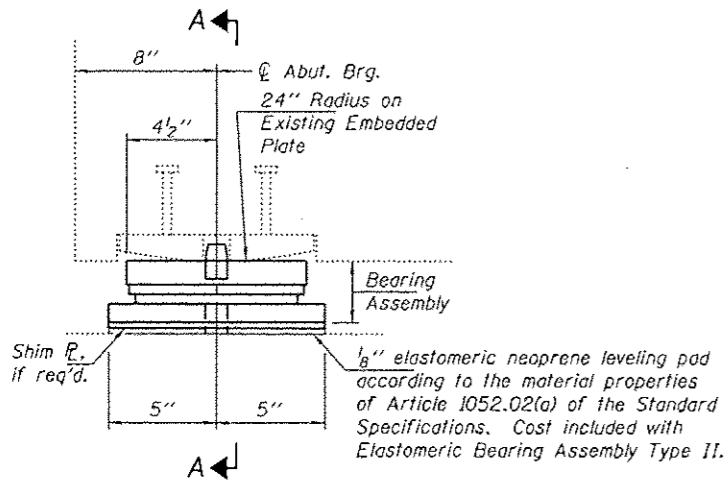
BILL OF MATERIAL

Structure	Item	Unit	Total
020-0036	Floor Drains	Each	20.0
020-0037	Floor Drains	Each	20.0

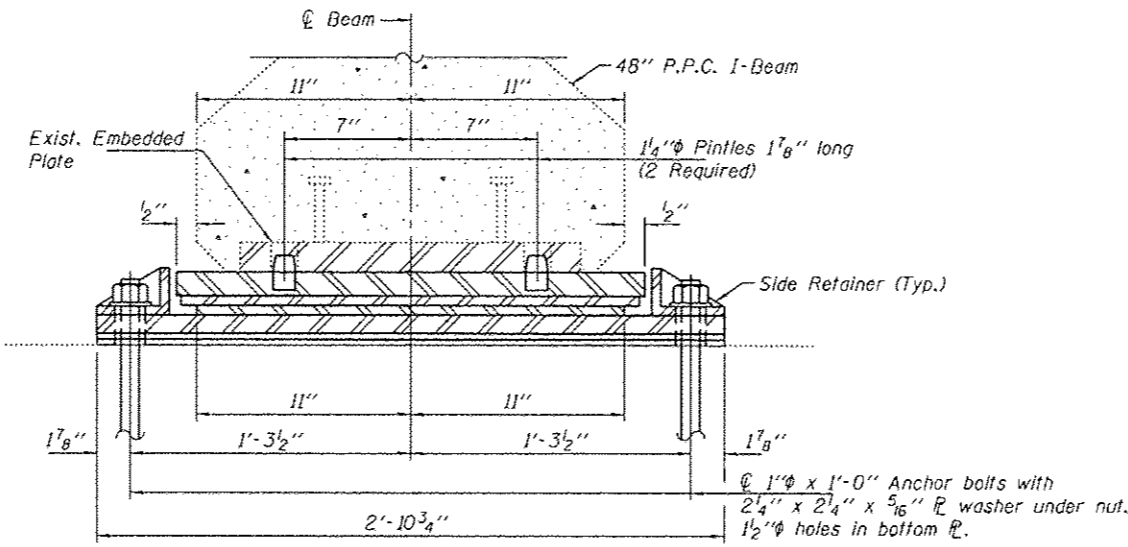
Cost of removal of existing drains and extensions is included in Deck Slab Repair (Full Depth, Type I).

*20-11HV8.HB-1.VB-1.B.B-111

FILE NAME *	USER NAME = brandenburgj	DESIGNED RTC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FLOOR DRAIN DETAILS			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLDT SCALE = 48.8888 1/8" = 1'	CHECKED TJB	REVISED -	REVISED -		S.N.020-0036 (EB) & S.N.020-0037 (WB)			74	*	DEWITT	166	134
DATE 11/29/2011	REVISOR -	REVISOR -	REVISOR -		SCALE: SHEET 8 OF 31 SHEETS STA. TO STA.			CONTRACT NO. 90B76				
DATE 11/30/2015	REVISOR -	REVISOR -	REVISOR -		ILLINOIS FED. AID PROJECT							



ELEVATION AT ABUTMENT

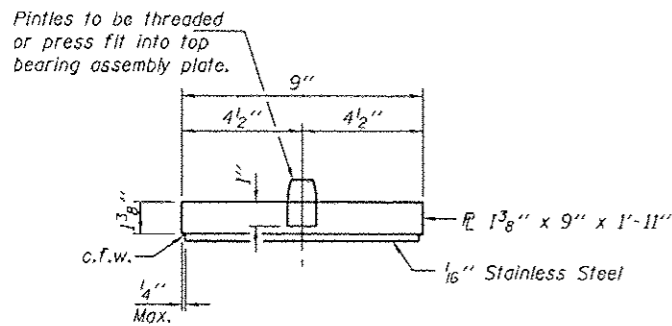


SECTION A-A

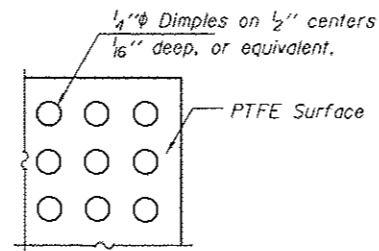
BEAM REACTIONS

R _Q	(k)	47.6
R _L	(k)	38.1
R _{IMP}	(k)	10.3
R _{TOTAL}	(k)	96.0

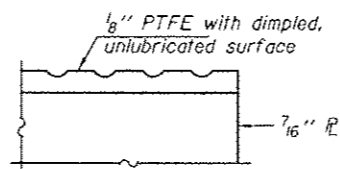
EXPANSION BEARINGS AT ABUTMENTS



TOP BEARING ASSEMBLY

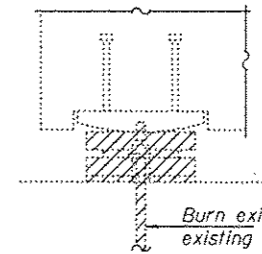


PLAN-PTFE SURFACE



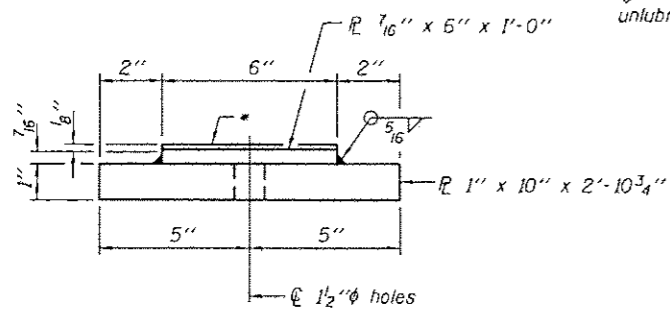
SECTION THRU PTFE

Notes:
 Prior to ordering any material, the Contractor shall verify in the field all bearing height and shim thickness dimensions. Min. jack capacity = 60 Tons.
 Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (F_y=36ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.
 Anchor bolts for Type II bearings shall be placed in holes drilled through the bottom bearing plate after members are in place. Side retainers shall be placed after bolts are installed.
 Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.
 Side retainers and other steel members required for the bearing assembly shall be included in the cost of Elastomeric Bearing Assembly, Type II.
 The 7/16" PTFE sheet shall be bonded directly to the top steel plate with a two-component, medium viscosity epoxy resin, conforming to the requirements of the Federal Specification MMM-A-134, Type I. The bond agent shall be applied on the full area of the contact surfaces.



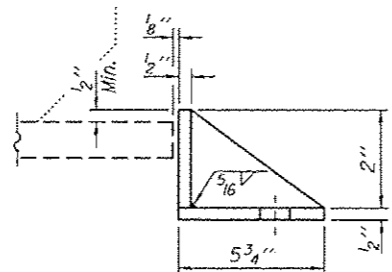
EXISTING BEARING REMOVAL DETAILS

Note: Hatched area indicates removal of existing bearings.



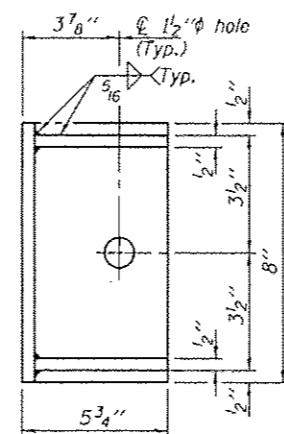
BOTTOM BEARING ASSEMBLY

* 7/16" PTFE dimpled, unlubricated



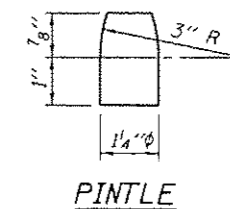
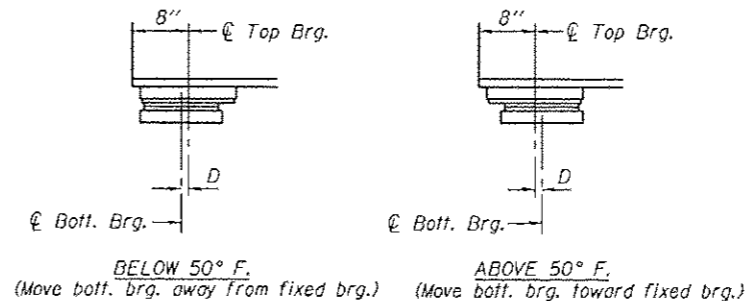
SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.



SETTING ANCHOR BOLTS AT EXP. BRG.

D=7/8" per each 100' of expansion for every 15° temp. change from the normal temp. of 50°F.



BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly, Type II	Each	24
Jack and Remove Existing Bearings	Each	24
Anchor Bolts 1 1/4"	Each	48

DESIGNED - IJL
 CHECKED - GGE
 DRAWN - Kyle M. Steffen
 CHECKED - IJL GGE

PASSED

Karl Perry
 ACTING ENGINEER OF BRIDGES AND STRUCTURES

DATE - NOVEMBER 19, 2015

REVISED

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BEARING REPLACEMENT DETAILS AT ABUTMENTS
 SN 020-0036 (E.B.) & 0037 (W.B.)

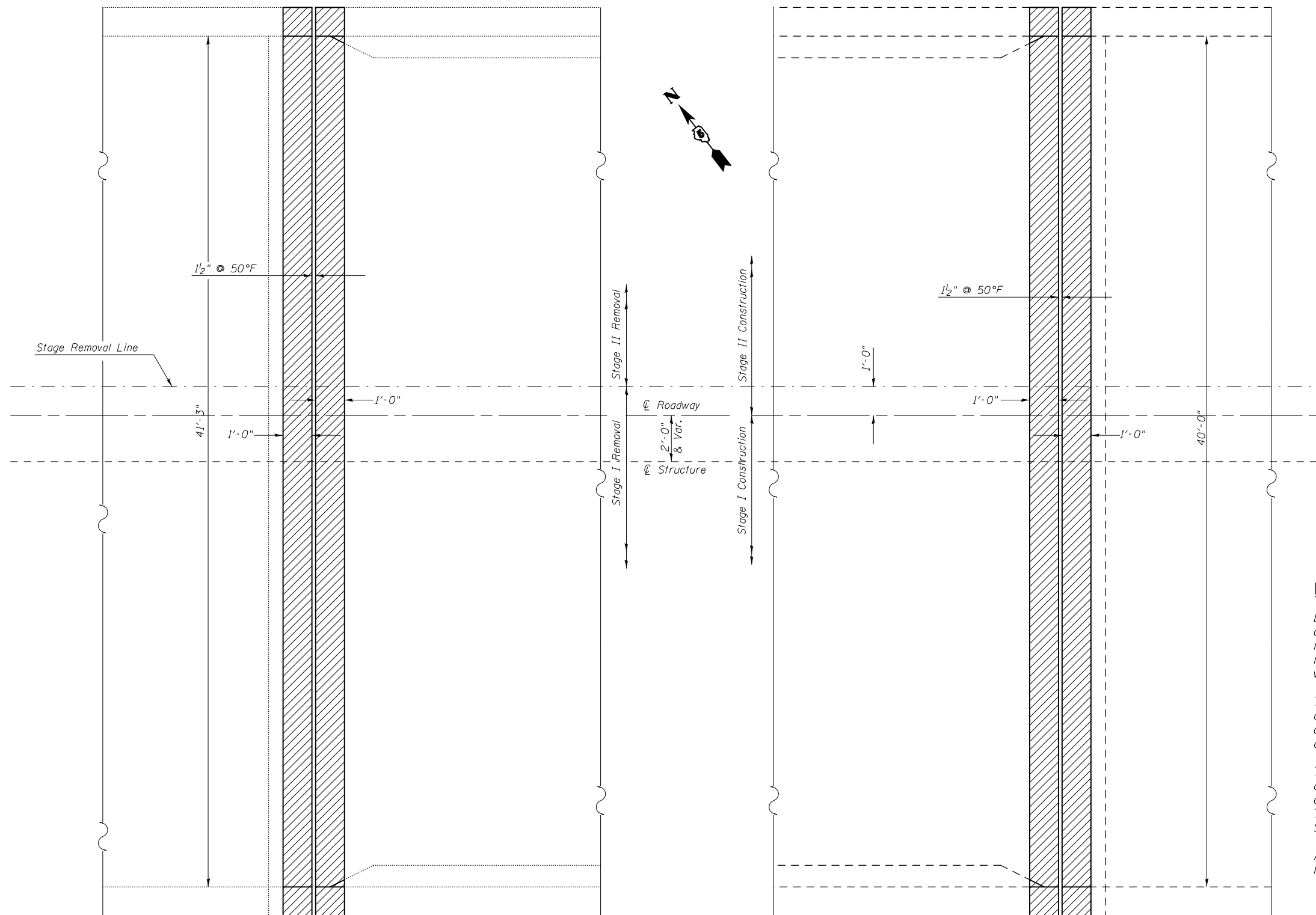
SHEET NO. 9 OF 31 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	20-1(H)VB,HB-1,VB-1,B,B-1(I)	DeWITT	166	135

ILLINOIS FED. AID PROJECT

SUPERSTRUCTURE PLAN-CONCRETE REMOVAL

S.N. 020-0036 (EB)



NOTES:

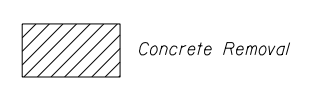
Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the New construction. Any reinforcement bars that are damaged during Concrete Removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.

The existing expansion joint system shall be removed completely, as well as any foreign material that has accumulated or been placed in the joint openings. The cost for this work is included in Concrete Removal and no additional compensation will be allowed.

The handrail attached to the top of the parapets shall be unbolted to allow for the removal and placement of the parapet ends. Following completion of the parapet ends, the handrail shall be re-attached. The cost of this work shall be included in Concrete Removal & Concrete Superstructures.

All existing deck tie downs shall be removed. Cost included with Concrete Removal.

BILL OF MATERIAL



STRUCTURE NUMBER	Item	Parapet		Deck End		Hatch Block		Wingwall		Unit	Total
		West	East	West	East	West	East	West	East		
020-0036	Concrete Removal	0.2	0.2	0.9	0.8	2.4	2.4	0.4	0.4	Cu Yd	7.7

FILE NAME =	USER NAME = brandenburgtj	DESIGNED RTC	REVISED -
pw:\IL\084EBIDINTEG\illinois.gov\PWIDOT\Documents\DOT Offices\District 5\Projects\0504\Drawings\90876-details.sht	DRAWN TJB	CHECKED TJB	REVISED - TJB
	PLOT SCALE = 40.0000' / in.	DATE 11/29/2011	REVISED - 9/9/2015
	PLOT DATE = 10/13/2015		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

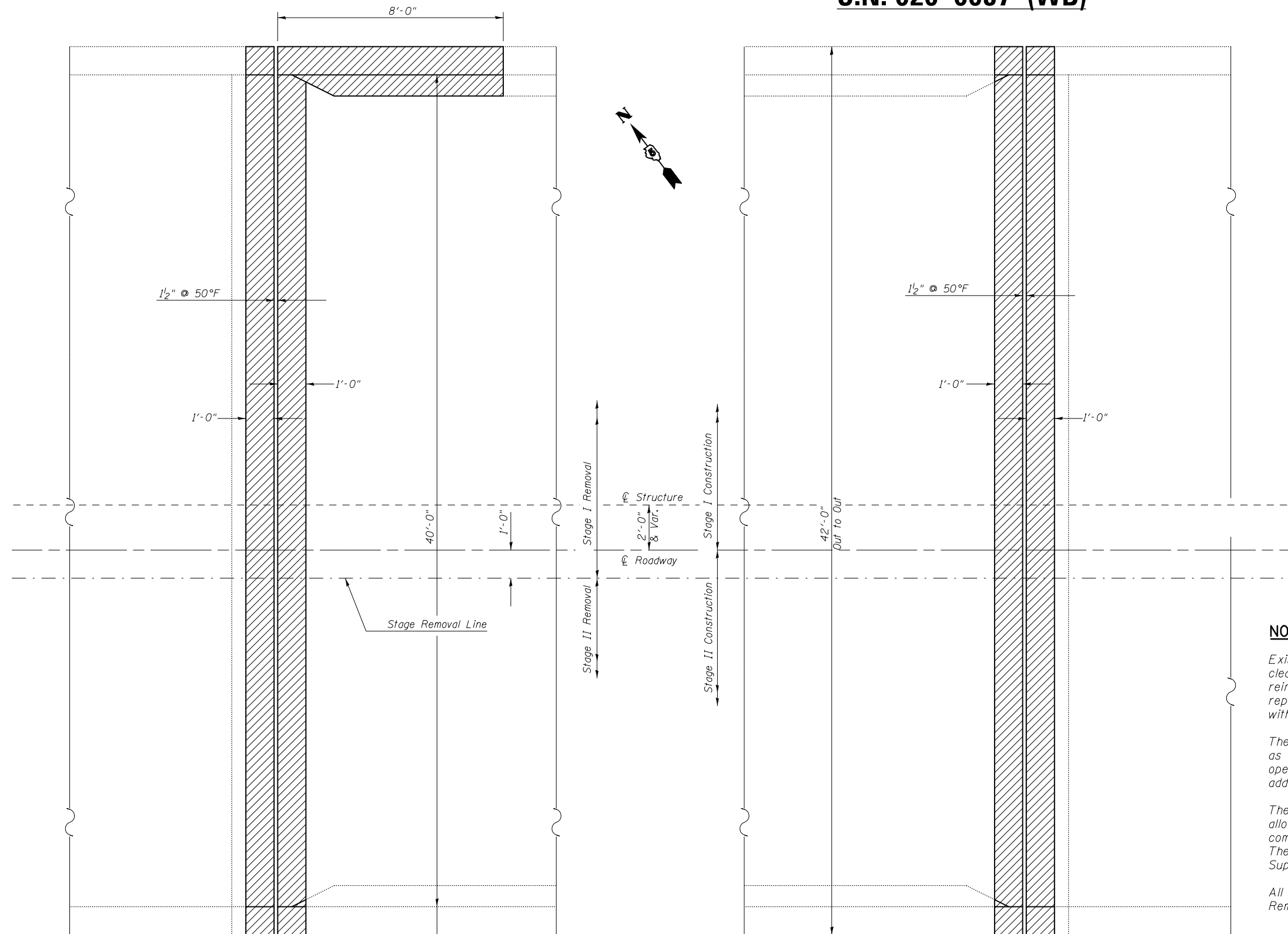
SUPERSTRUCTURE PLAN-CONCRETE REMOVAL
S.N. 020-0036 (EB)

SCALE: SHEET 10 OF 31 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	*	DEWITT	166	136
CONTRACT NO. 90876			ILLINOIS FED. AID PROJECT	

SUPERSTRUCTURE PLAN-CONCRETE REMOVAL

S.N. 020-0037 (WB)



NOTES:

Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the New construction. Any reinforcement bars that are damaged during Concrete Removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.

The existing expansion joint system shall be removed completely, as well as any foreign material that has accumulated or been placed in the joint openings. The cost for this work is included in Concrete Removal and no additional compensation will be allowed.

The handrail attached to the top of the parapets shall be unbolted to allow for the removal and placement of the parapet ends. Following completion of the parapet ends, the handrail shall be re-attached. The cost of this work shall be included in Concrete Removal & Concrete Superstructures.

All existing deck tie downs shall be removed. Cost included with Concrete Removal.

BILL OF MATERIAL

STRUCTURE NUMBER	Item	Parapet		Deck End		Hatch Block		Wingwall		Unit	Total
		West	East	West	East	West	East	West	East		
020-0037	Concrete Removal	1.3	0.2	0.8	0.8	2.4	2.4	0.4	0.4	Cu Yd	8.7

•20-1(HVB,HB-1,VB-1,B,B-1)I

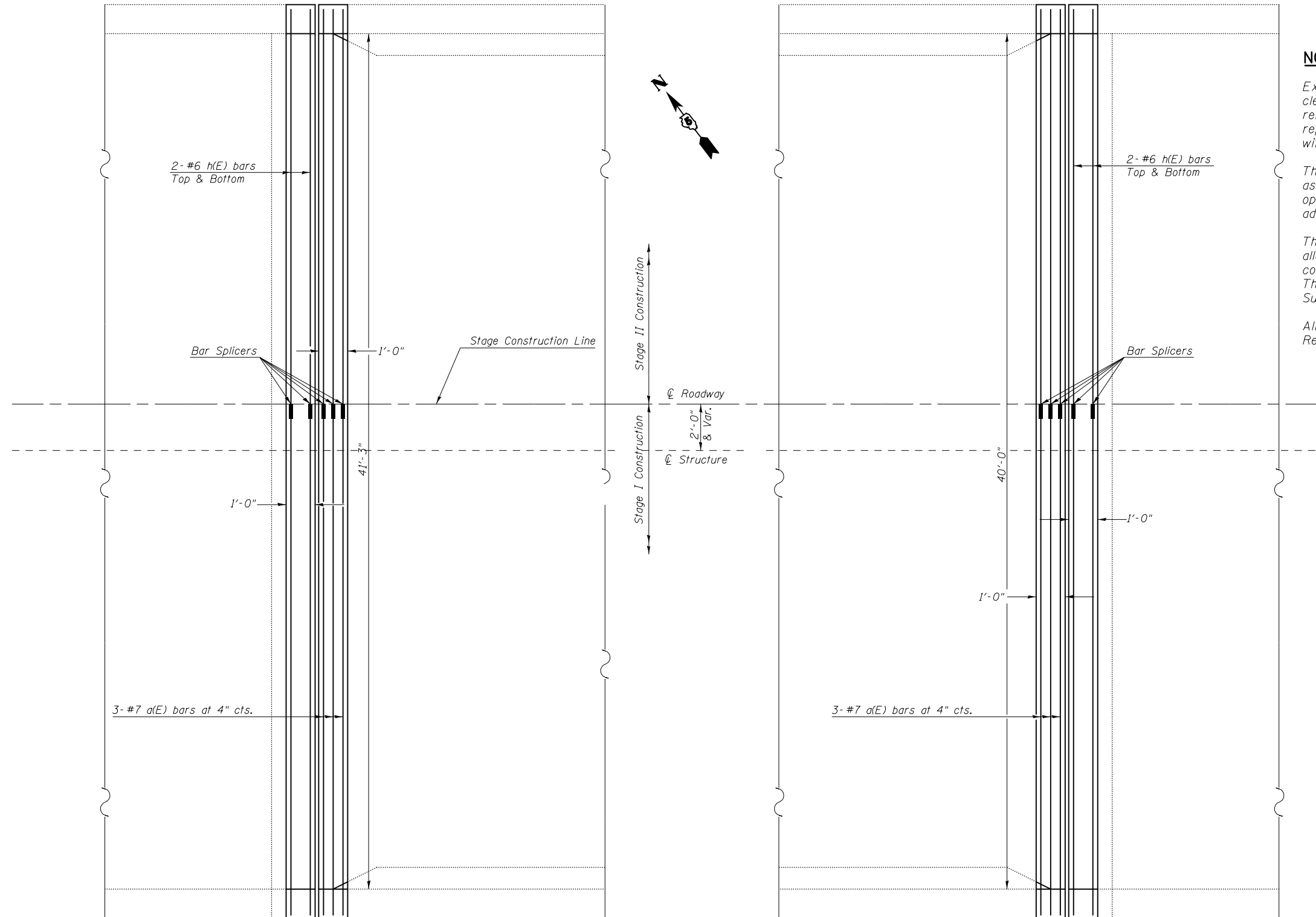
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		DATE <i>11/29/2011</i>	REVISED - 9/9/2015

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUPERSTRUCTURE PLAN-CONCRETE REMOVAL			
S.N. 020-0037 (WB)			
SCALE:	SHEET 11	OF 31 SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	*	DEWITT	166	137
CONTRACT NO. 90876			ILLINOIS FED. AID PROJECT	

SUPERSTRUCTURE PLAN-DECK REINFORCEMENT S.N. 020-0036 (EB)



NOTES:

Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the New construction. Any reinforcement bars that are damaged during Concrete Removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.

The existing expansion joint system shall be removed completely, as well as any foreign material that has accumulated or been placed in the joint openings. The cost for this work is included in Concrete Removal and no additional compensation will be allowed.

The handrail attached to the top of the parapets shall be unbolted to allow for the removal and placement of the parapet ends. Following completion of the parapet ends, the handrail shall be re-attached. The cost of this work shall be included in Concrete Removal & Concrete Superstructures.

All existing deck tie downs shall be removed. Cost included with Concrete Removal.

BILL OF MATERIAL

Bill of Materials (Per Joint) S.N. 020-0036 (East Joint)					
Stage	Bar	No.	Size	Bar (ft-in)	Weight (lbs)
I	a(E)	3	7	23'-0"	141.0
II	a(E)	3	7	19'-0"	116.5
Deck Total (lbs) =					257.5
I	h(E)	4	6	23'-0"	138.2
II	h(E)	4	6	19'-0"	114.2
Hatch Block Total (lbs) =					252.3
Total Weight (lbs) =					510.0
S.N. 020-0036 (West Joint)					
Stage	Bar	No.	Size	Bar (ft-in)	Weight (lbs)
I	a(E)	3	7	24'-3"	148.7
II	a(E)	3	7	19'-0"	116.5
Deck Total (lbs) =					265.2
I	h(E)	4	6	24'-3"	145.7
II	h(E)	4	6	19'-0"	114.2
Hatch Block Total (lbs) =					259.8
Total Weight (lbs) =					530.0
Total for Both Joints (lbs) =					1,040.0

BILL OF MATERIAL

STRUCTURE NUMBER	Item	Parapet		Deck End		Hatch Block		Wingwall		Unit	Total
		West	East	West	East	West	East	West	East		
020-0036	Concrete Superstructure	0.2	0.2	0.9	0.8	2.4	2.4	0.4	0.4	Cu Yd	7.7

*20-1(HVB,HB-1,VB-1,B,B-1)I

FILE NAME =	USER NAME = brandenburgtj	DESIGNED RTC	REVISED -
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PLOT SCALE = 40.0000' / in.	CHECKED TJB	REVISIONS	REVISED - TJB
PLOT DATE = 10/13/2015	DATE 11/29/2011	REVISIONS	REVISED - 9/9/2015

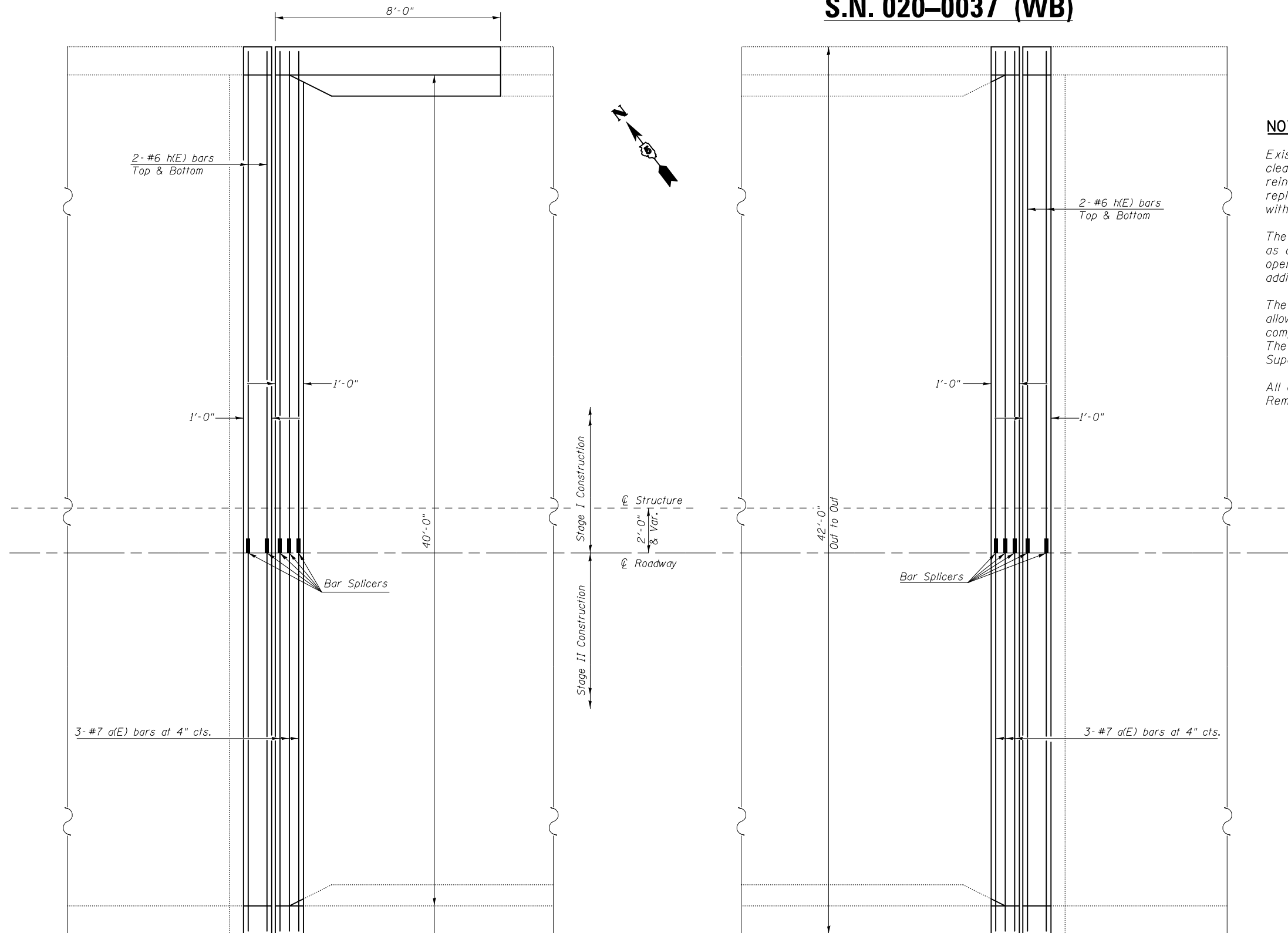
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUPERSTRUCTURE PLAN-DECK REINFORCEMENT
S.N. 020-0036 (EB)**

SCALE: SHEET 12 OF 31 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	*	DEWITT	166	138
CONTRACT NO. 90876			ILLINOIS FED. AID PROJECT	

SUPERSTRUCTURE PLAN-DECK REINFORCEMENT S.N. 020-0037 (WB)



NOTES:

Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the New construction. Any reinforcement bars that are damaged during Concrete Removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.

The existing expansion joint system shall be removed completely, as well as any foreign material that has accumulated or been placed in the joint openings. The cost for this work is included in Concrete Removal and no additional compensation will be allowed.

The handrail attached to the top of the parapets shall be unbolted to allow for the removal and placement of the parapet ends. Following completion of the parapet ends, the handrail shall be re-attached. The cost of this work shall be included in Concrete Removal & Concrete Superstructures.

All existing deck tie downs shall be removed. Cost included with Concrete Removal.

BILL OF MATERIAL

Bill of Materials (Per Joint)					
S.N. 020-0037 (East Joint & West Joint)					
Stage	Bar	No.	Size	Bar Weight (ft-in)	Weight (lbs)
I	a(E)	3	7	23'-0"	141.0
II	a(E)	3	7	19'-0"	116.5
Deck Total (lbs) =					257.5
I	h(E)	4	6	23'-0"	138.2
II	h(E)	4	6	19'-0"	114.2
Hatch Block Total (lbs) =					252.3
Total Weight (lbs) =					510.0
Total for Both Joints (lbs) =					1,020.0

BILL OF MATERIAL

STRUCTURE NUMBER	Item	Parapet		Deck End		Hatch Block		Wingwall		Unit	Total
		West	East	West	East	West	East	West	East		
020-0037	Concrete Superstructure	1.3	0.2	0.8	0.8	2.4	2.4	0.4	0.4	Cu Yd	8.7

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUPERSTRUCTURE PLAN-DECK REINFORCEMENT
S.N. 020-0037 (WB)**

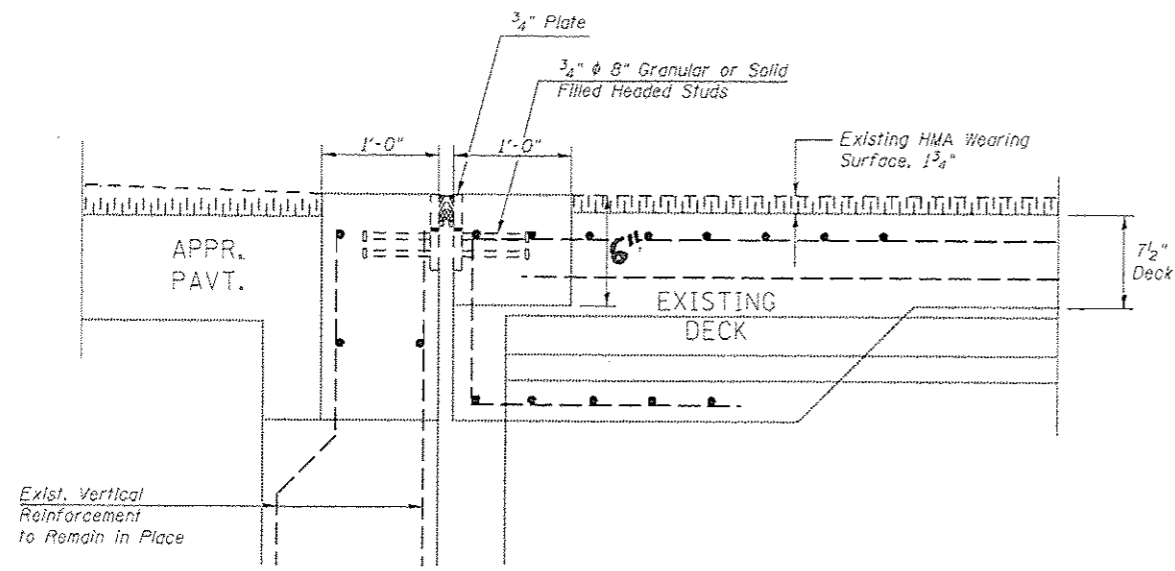
SCALE: SHEET 13 OF 31 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	*	DEWITT	166	139
CONTRACT NO. 90876				
ILLINOIS FED. AID PROJECT				

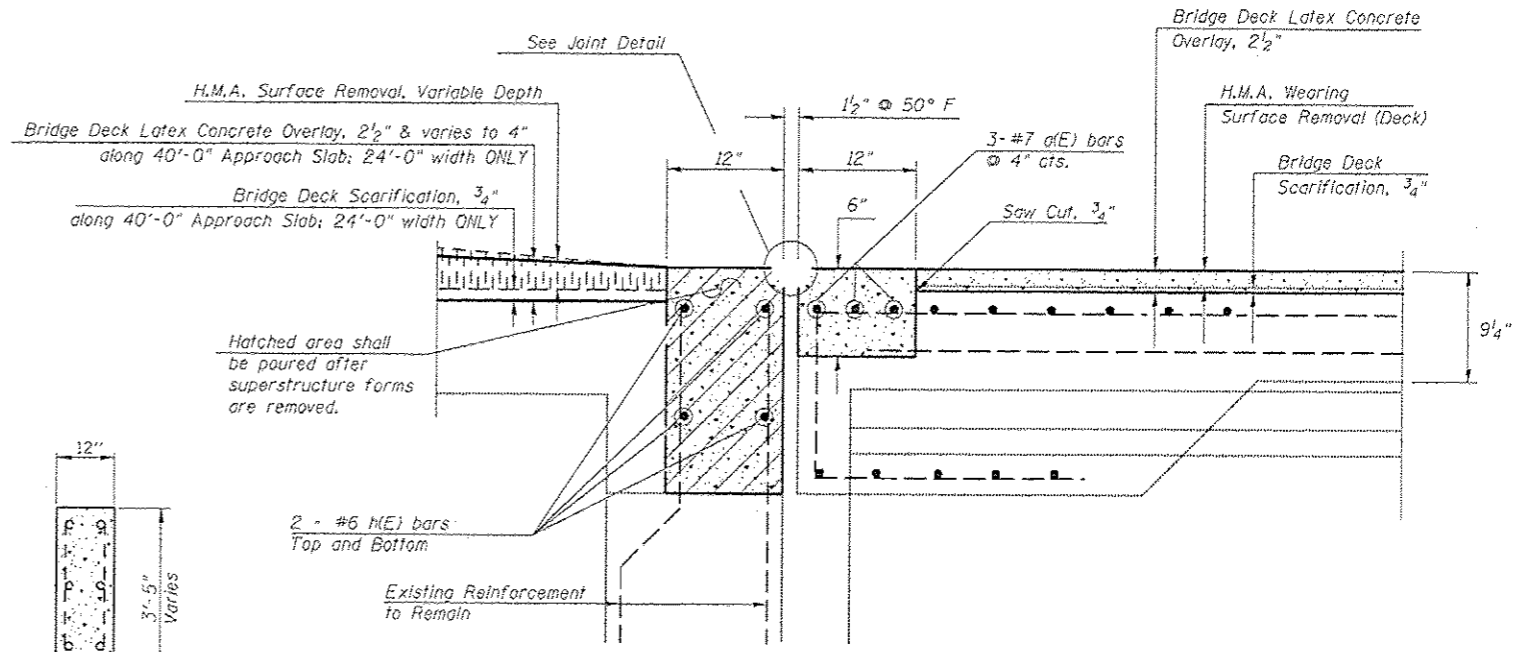
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DECK END AND HATCH BLOCK DETAILS

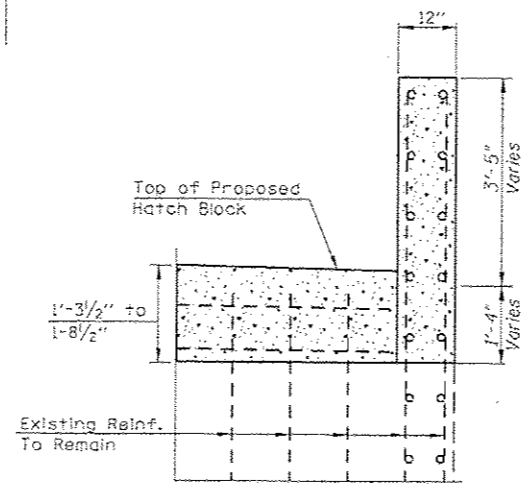
S.N. 020-0036 (EB) & S.N. 020-0037 (WB)



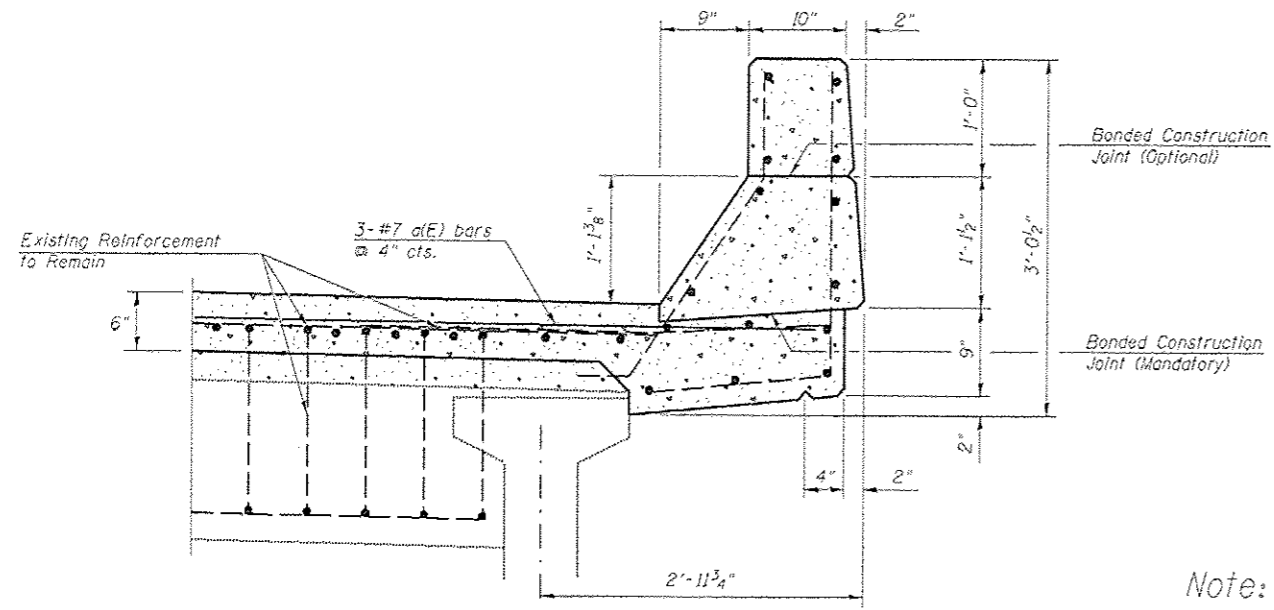
SECTION AT EXISTING JOINT



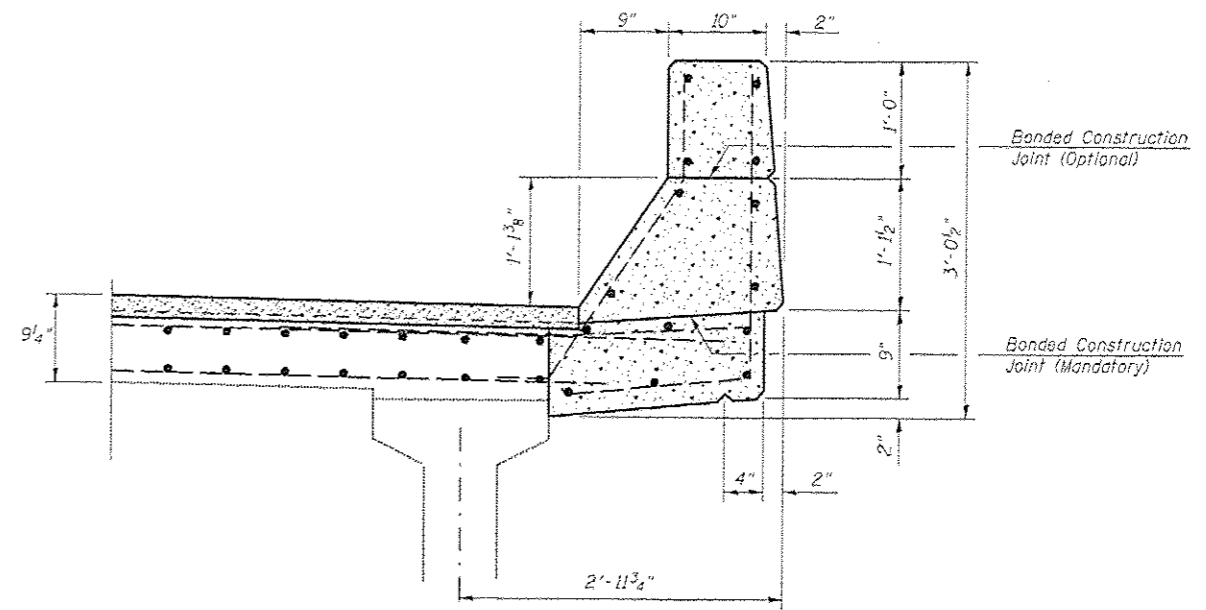
SECTION AT PROPOSED JOINT



SECTION AT WINGWALL



SECTION THRU PARAPET (AT JOINT)



SECTION THRU PARAPET (SN 020-0037 PARAPET REPAIR)

Note:
All Existing Reinforcement
to Remain in Place

FILE NAME =	USER NAME = brandenburgtj	DESIGNED RTC	REVISED -
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PLOT DATE = 10/13/2015			REVISED - 9/9/2015

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

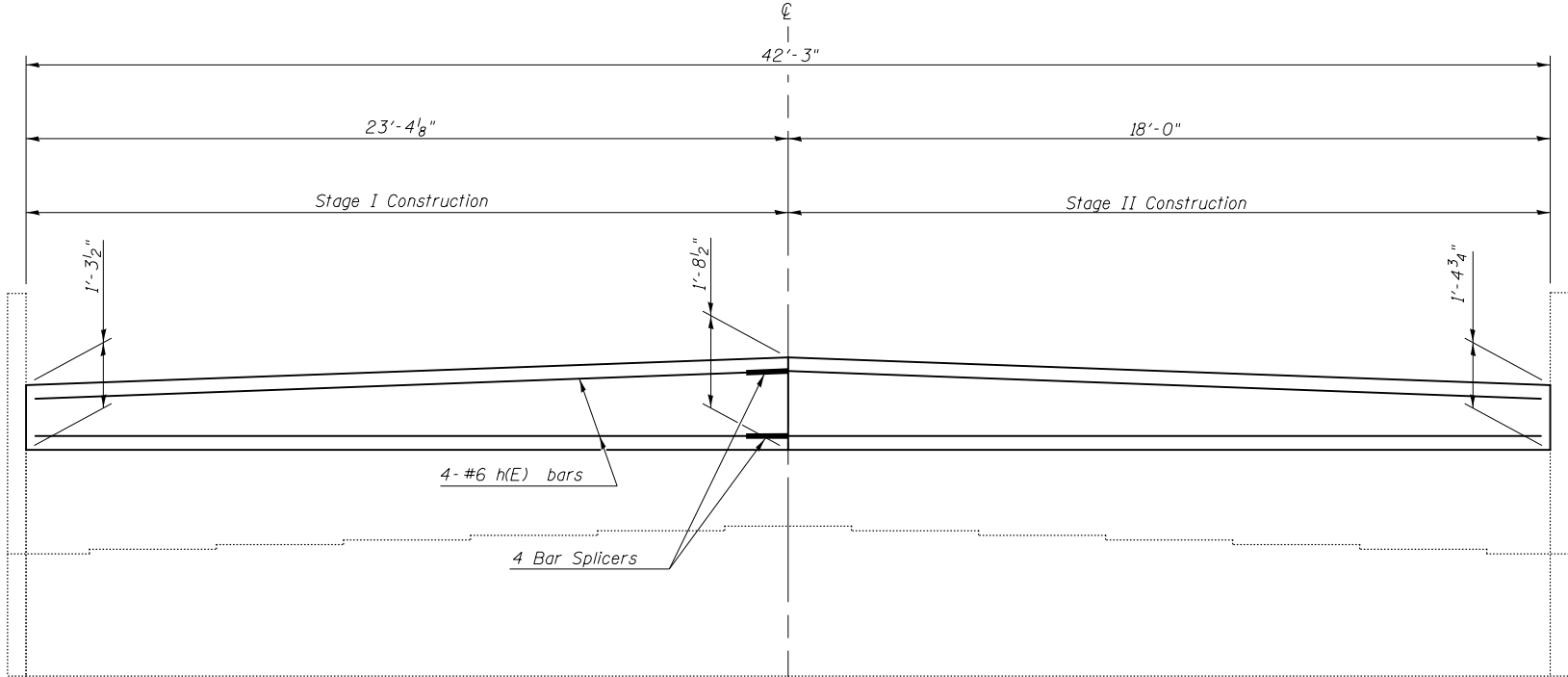
DECK END AND HATCH BLOCK DETAILS
S.N. 020-0036 (EB) AND S.N. 020-0037 (WB)

SCALE: SHEET 14 OF 31 SHEETS STA. TO STA.

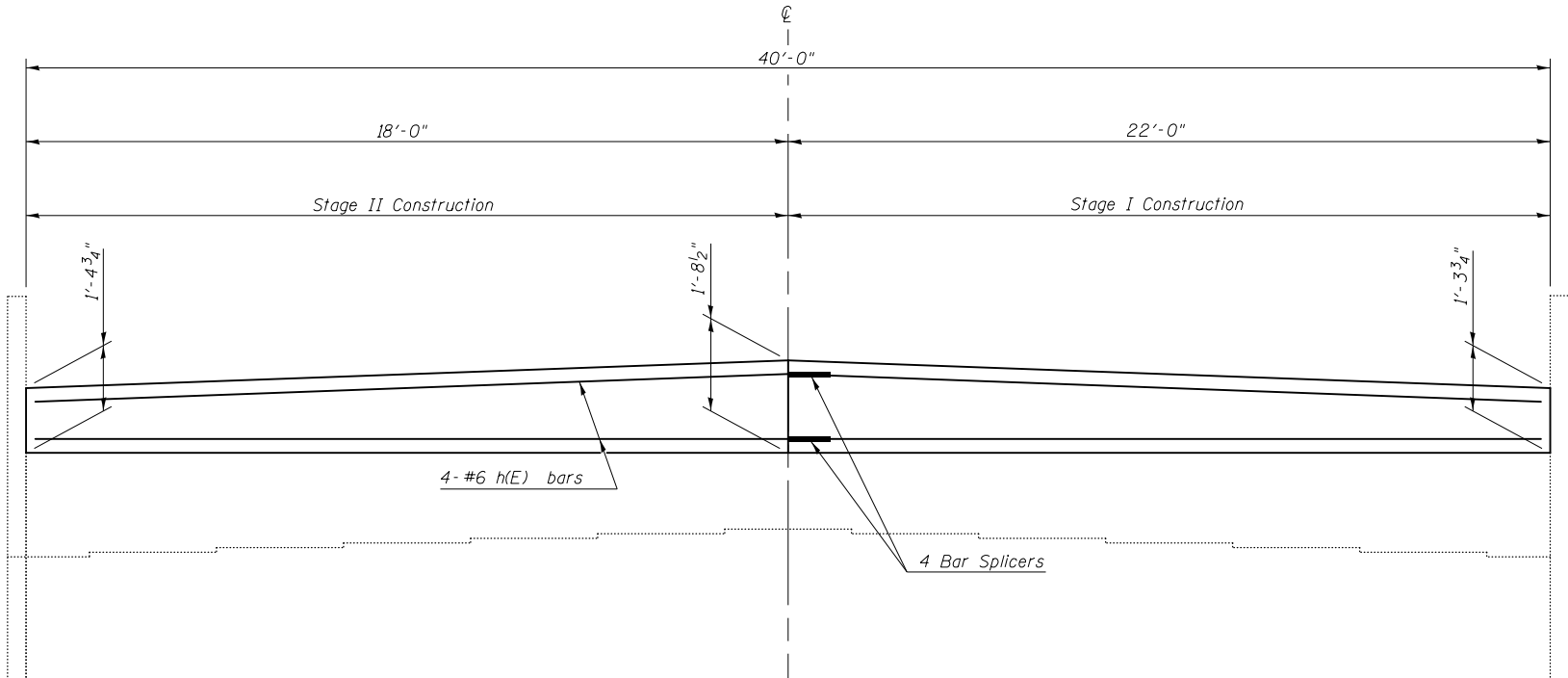
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74		DEWITT	166	140
CONTRACT NO. 90876				
ILLINOIS FED. AID PROJECT				

HATCH BLOCK DETAILS

S.N. 020-0036 (EB)



ELEVATION
(WEST ABUTMENT)



ELEVATION
(EAST ABUTMENT)

•20-1(HVB,HB-1,VB-1,B,B-1)I

FILE NAME =	USER NAME = brandenburgtj	DESIGNED <i>RTC</i>	REVISED -
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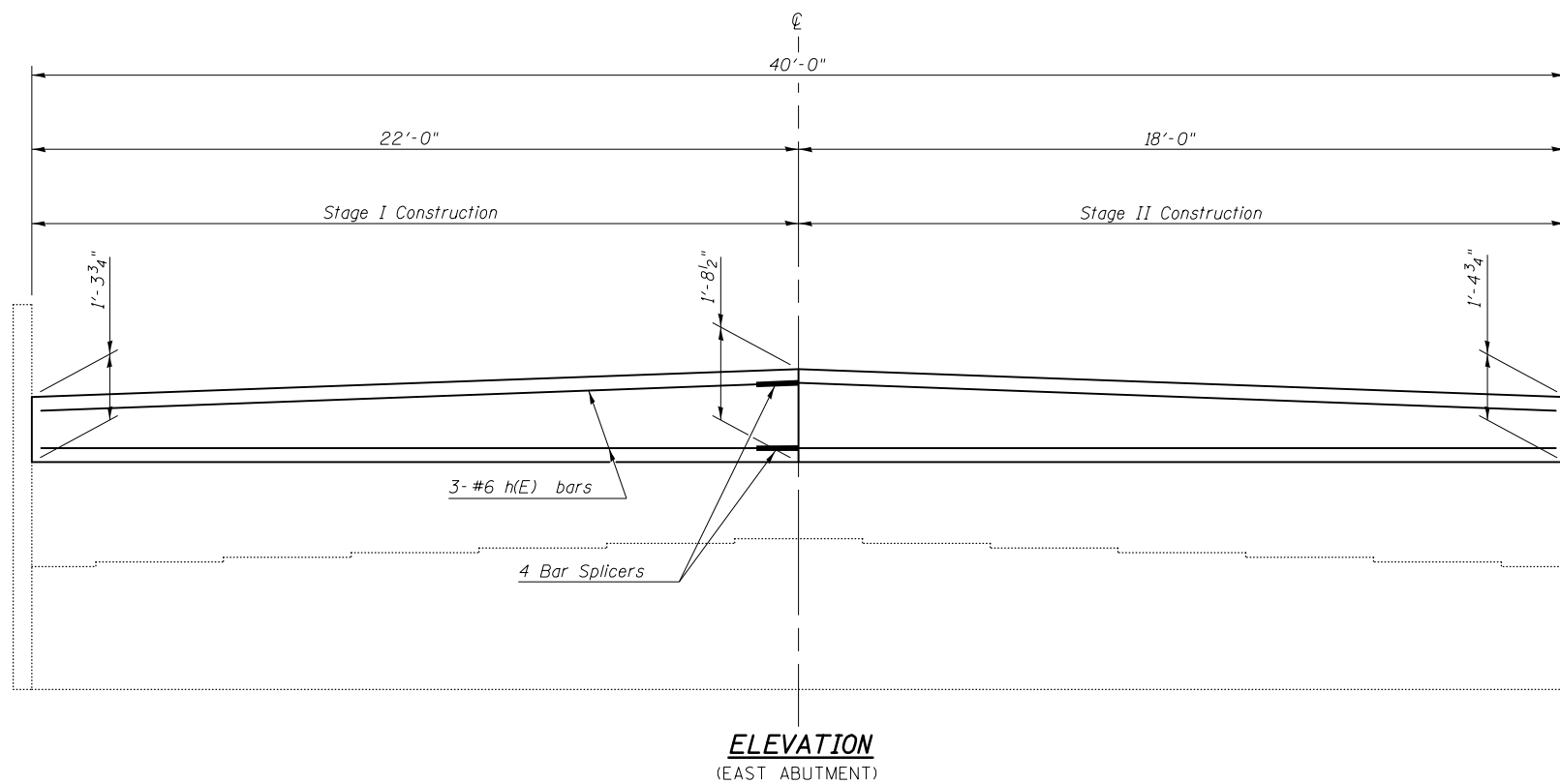
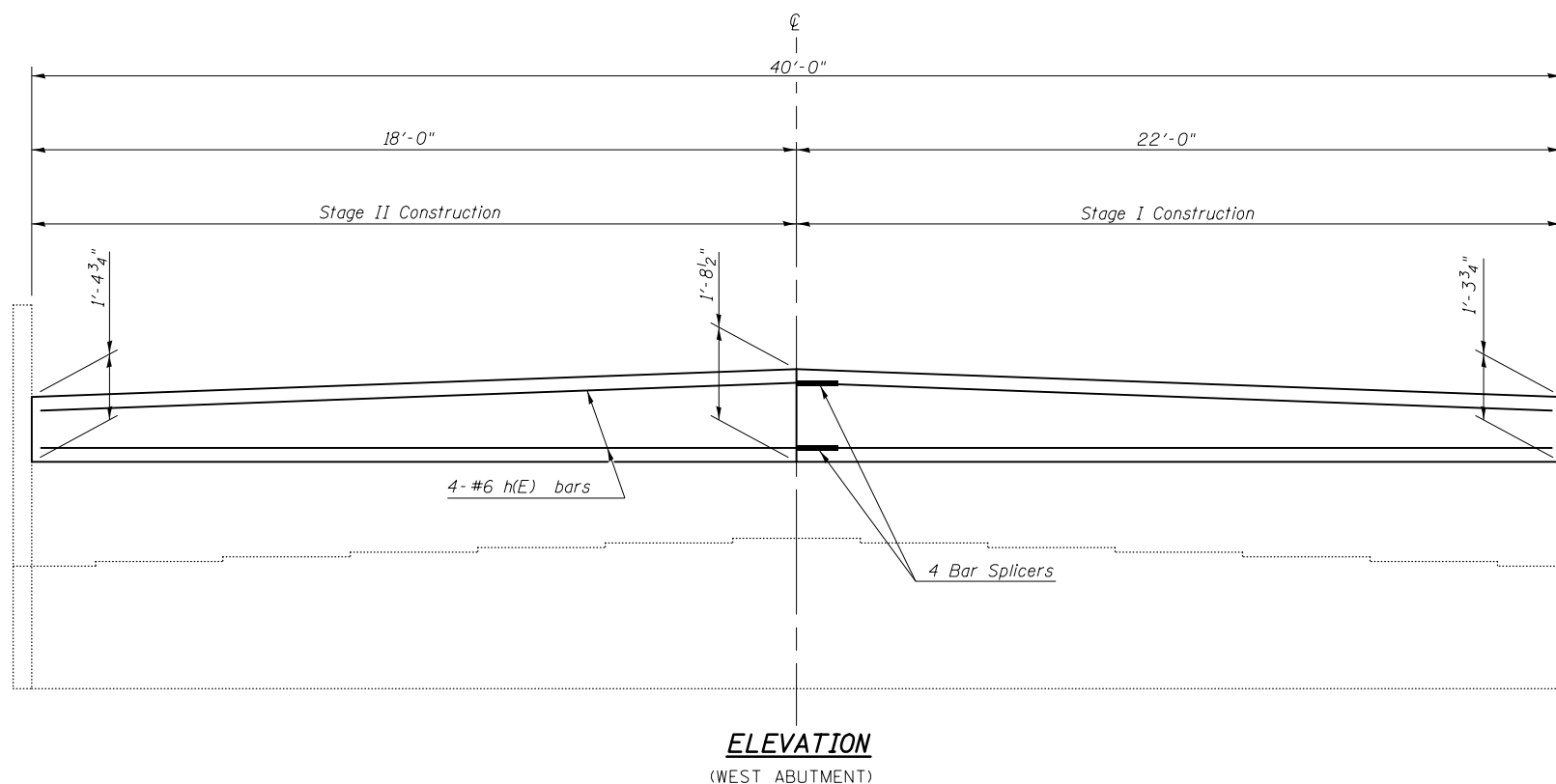
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

HATCH BLOCK DETAILS			
S.N. 020-0036 (EB) AND S.N. 020-0037 (WB)			
SCALE:	SHEET 15	OF 31 SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	•	DEWITT	166	141
CONTRACT NO. 90876				
ILLINOIS FED. AID PROJECT				

HATCH BLOCK DETAILS

S.N. 020-0037 (WB)



•20-1(HVB,HB-1,VB-1,B,B-1)I

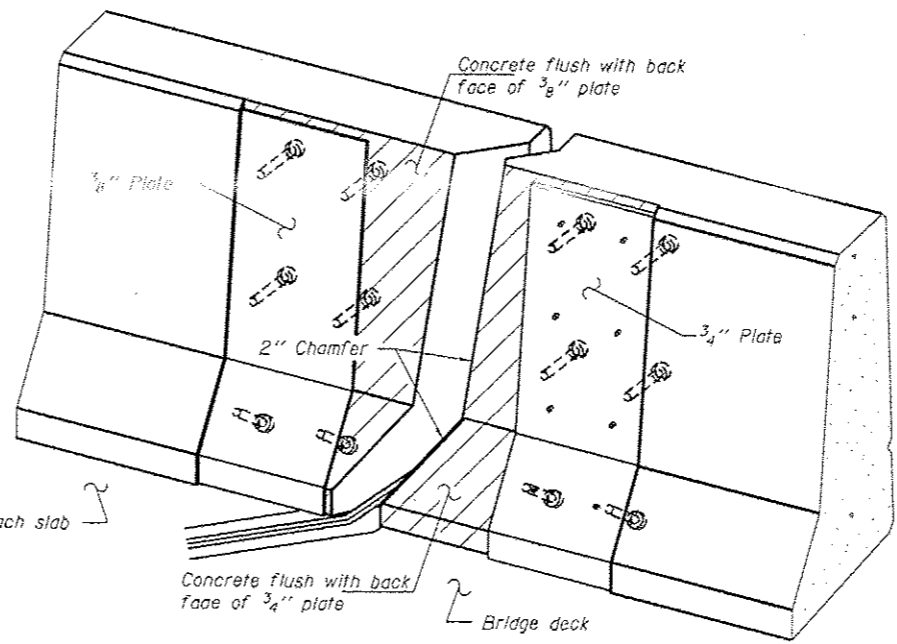
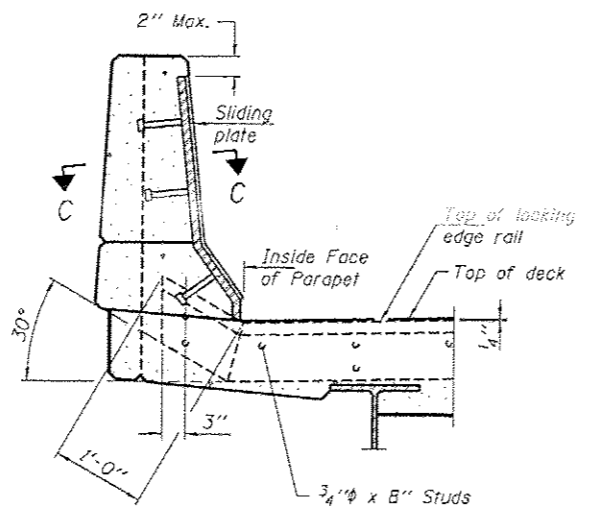
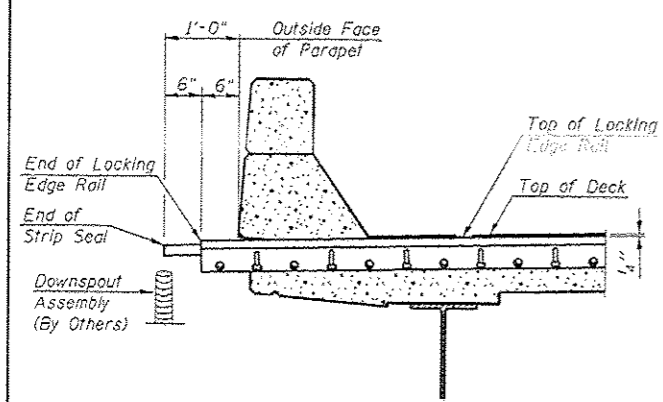
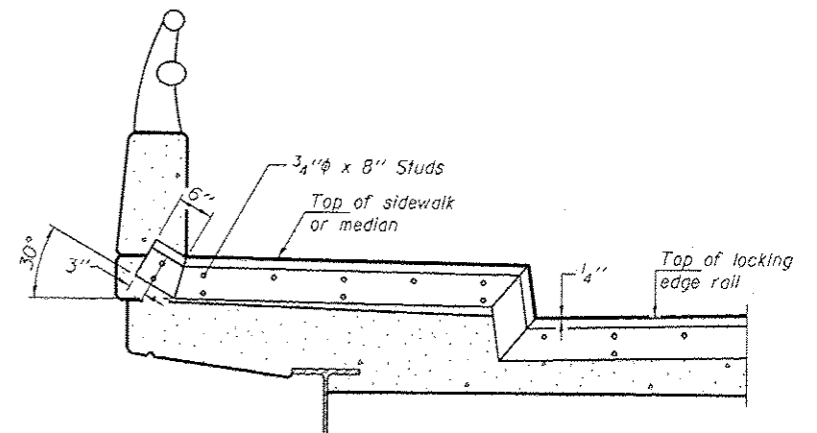
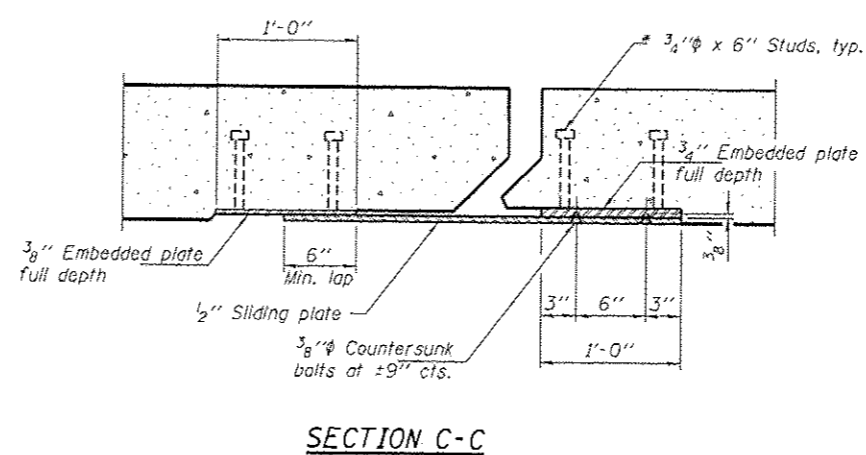
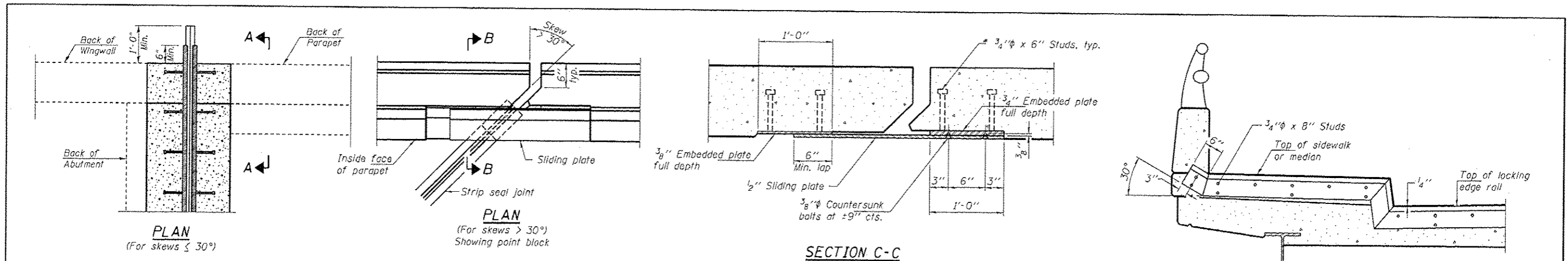
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	PLOT SCALE = 40.0000' / in.	DATE <i>11/29/2011</i>	REVISED -
	PLOT DATE = 10/13/2015		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HATCH BLOCK DETAILS
S.N. 020-0036 (EB) AND S.N. 020-0037 (WB)

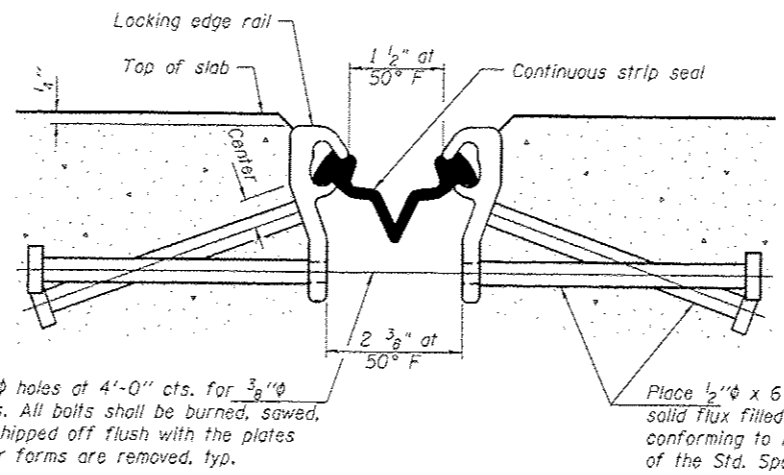
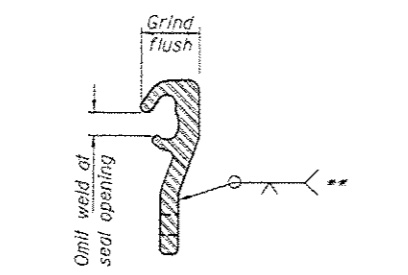
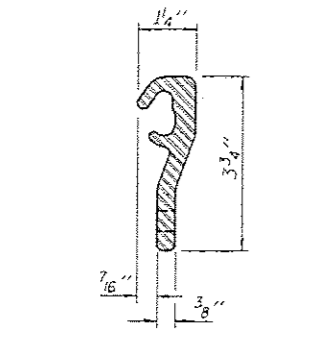
SCALE: SHEET 16 OF 31 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	*	DEWITT	166	142
				CONTRACT NO. 90876
ILLINOIS FED. AID PROJECT				



TYPICAL END TREATMENT AT SIDEWALK OR MEDIAN
 Shorter plates with a single row of studs at 12" cts. may be necessary on medians which are shallower than 9". See manufacturer's recommendation.

* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.



Place 1/2" x 6" granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded at 1'-0" alt. cts.

Notes:
 The strip seal shall be made continuous and shall have a minimum thickness of 1/4". The configuration of the strip seal shall match the configuration of the Locking Edge Rails.
 The height and thickness of the Locking Edge Rails shown are minimum dimensions. The actual configuration of the Locking Edge Rails and matching strip seal may vary from manufacturer to manufacturer. Flanged edge rails will not be allowed.
 The inside of the Locking Edge Rail groove shall be free of weld residue.
 Locking Edge Rails may be spliced at slope discontinuities and stage construction joints.
 All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.
 Maximum space between rail segments at stage lines shall be 3#16", sealed with a suitable sealant.
 Parapet plates and anchorage studs for skews > 30° included in the cost of Preformed Joint Strip Seal.
 The manufacturer's recommended installation methods shall be followed.

BILL OF MATERIAL

Structure	Item	Unit	Total
020-0036	Preformed Joint Strip Seal	Foot	89.2
020-0037	Preformed Joint Strip Seal	Foot	88.0

DESIGNED - RTC
 CHECKED - TJB
 DRAWN - RTC
 CHECKED - TJB 12/1/2015

PASSED _____
 ACTING ENGINEER OF BRIDGES AND STRUCTURES

DATE _____
 REVISED _____
 REVISED _____

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PREFORMED JOINT STRIP SEAL
 S.N. 020-0036 (EB) & S.N. 020-0037 (WB)

*20-11HVB,HB-1,VB-1,B,B-111

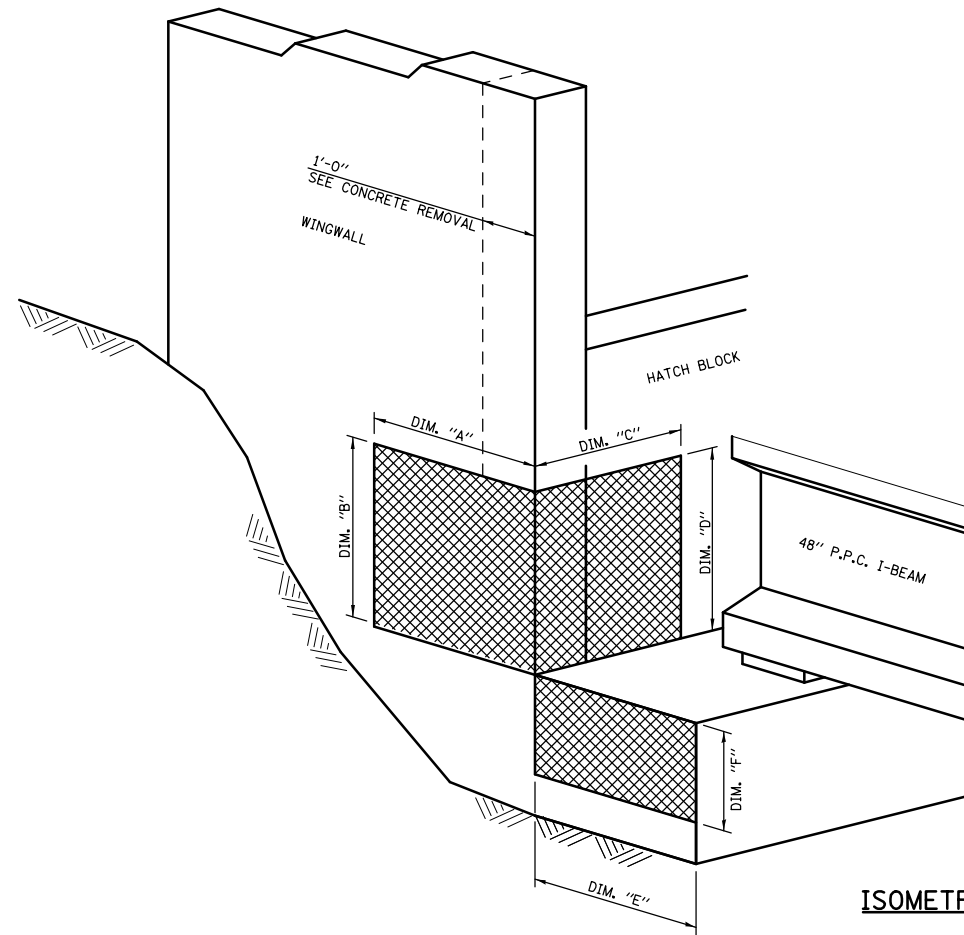
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	*	DEWITT	166	143

CONTRACT NO. 90876
 ILLINOIS FED. AID PROJECT

SUBSTRUCTURE REPAIR PLAN

S.N. 020-0036

S.N. 020-0037



ISOMETRIC VIEW AT ABUTMENT CORNER

S.N. 020-0036

TABLE FOR STRUCTURAL REPAIR OF CONCRETE

ABUTMENT CORNER	REPAIR AREA DIMENSIONS						REPAIR AREA SQ. FT.
	WINGWALL		BACKWALL		ABUTMENT SEAT		
	A	B	C	D	E	F	
NORTHEAST	-	-	2'-0"	3'-9"	3'-0"	2'-0"	13.5
SOUTHEAST	2'-0"	3'-9"	2'-0"	3'-9"	3'-0"	1'-0"	18.0
NORTHWEST	-	-	-	-	-	-	-
SOUTHWEST	-	-	2'-0"	3'-9"	-	-	7.5

S.N. 020-0037

TABLE FOR STRUCTURAL REPAIR OF CONCRETE

ABUTMENT CORNER	REPAIR AREA DIMENSIONS						REPAIR AREA SQ. FT.
	WINGWALL		BACKWALL		ABUTMENT SEAT		
	A	B	C	D	E	F	
NORTHEAST	-	-	2'-0"	3'-9"	-	-	7.5
SOUTHEAST	-	-	-	-	3'-0"	1'-0"	3.0
NORTHWEST	-	-	-	-	-	-	-
SOUTHWEST	-	-	-	-	3'-0"	1'-6"	4.5

LEGEND

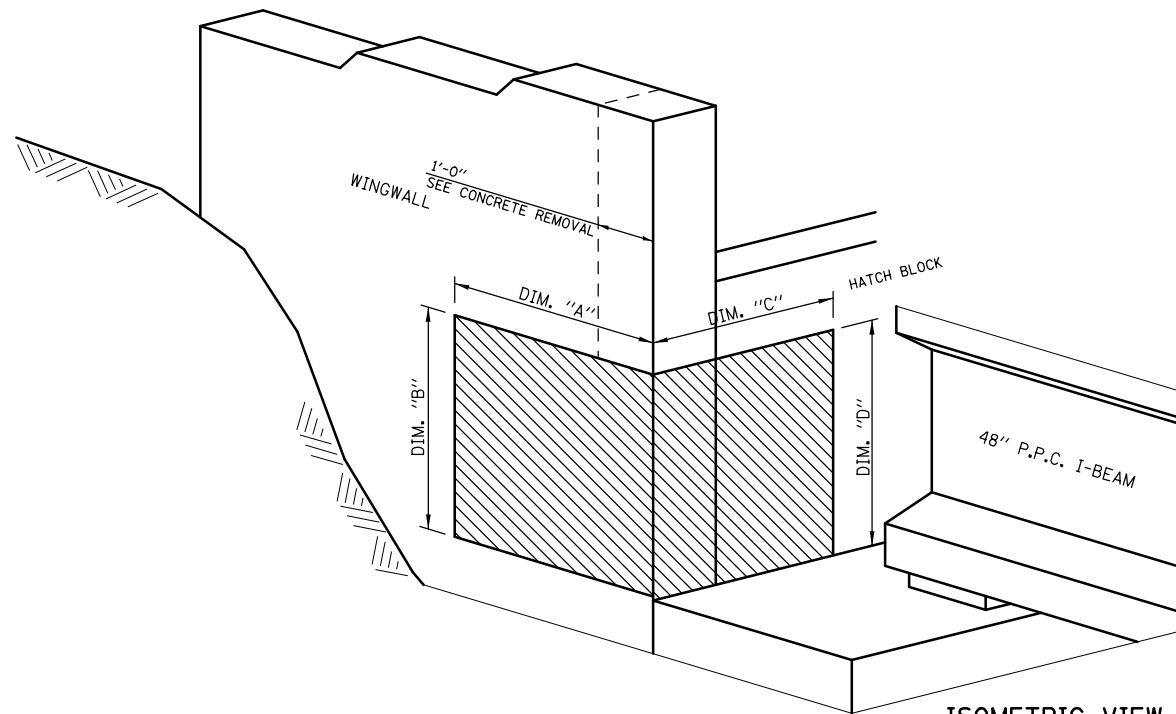
STRUCTURAL REPAIR OF CONCRETE, DEPTH EQUAL TO OR LESS THAN 5"

NOTE:

SEE SPECIAL PROVISION FOR STRUCTURAL REPAIR OF CONCRETE.

BILL OF MATERIAL

Structure	Item	Unit	Total
020-0036	Structural Repair of Concrete, Depth Equal to or Less than 5"	Sq. Ft.	39.0
020-0037	Structural Repair of Concrete, Depth Equal to or Less than 5"	Sq. Ft.	15.0



ISOMETRIC VIEW AT ABUTMENT CORNER

S.N. 020-0037

TABLE FOR STRUCTURAL REPAIR OF CONCRETE

ABUTMENT CORNER	REPAIR AREA DIMENSIONS						REPAIR AREA SQ. FT.
	WINGWALL		BACKWALL		ABUTMENT SEAT		
	A	B	C	D	E	F	
NORTHEAST	-	-	-	-	-	-	-
SOUTHEAST	4'-0"	3'-9"	2'-6"	3'-9"	-	-	24.0
NORTHWEST	-	-	-	-	-	-	-
SOUTHWEST	-	-	-	-	-	-	-

LEGEND

STRUCTURAL REPAIR OF CONCRETE, DEPTH GREATER THAN 5"

NOTE:

SEE SPECIAL PROVISION FOR STRUCTURAL REPAIR OF CONCRETE.

BILL OF MATERIAL

Structure	Item	Unit	Total
020-0037	Structural Repair of Concrete, Depth Greater Than 5"	Sq. Ft.	24.0

*20-1(HVB,HB-1,VB-1,B,B-1)I

FILE NAME =	USER NAME = brandenburtj	DESIGNED <i>RTC</i>	REVISED -
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	PLOT SCALE = 40.0000' / in.	DATE <i>11/29/2011</i>	REVISED - 9/9/2015
	PLOT DATE = 10/13/2015		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUBSTRUCTURE REPAIR DETAILS
S.N. 020-0036 (EB) AND S.N. 020-0037 (WB)**

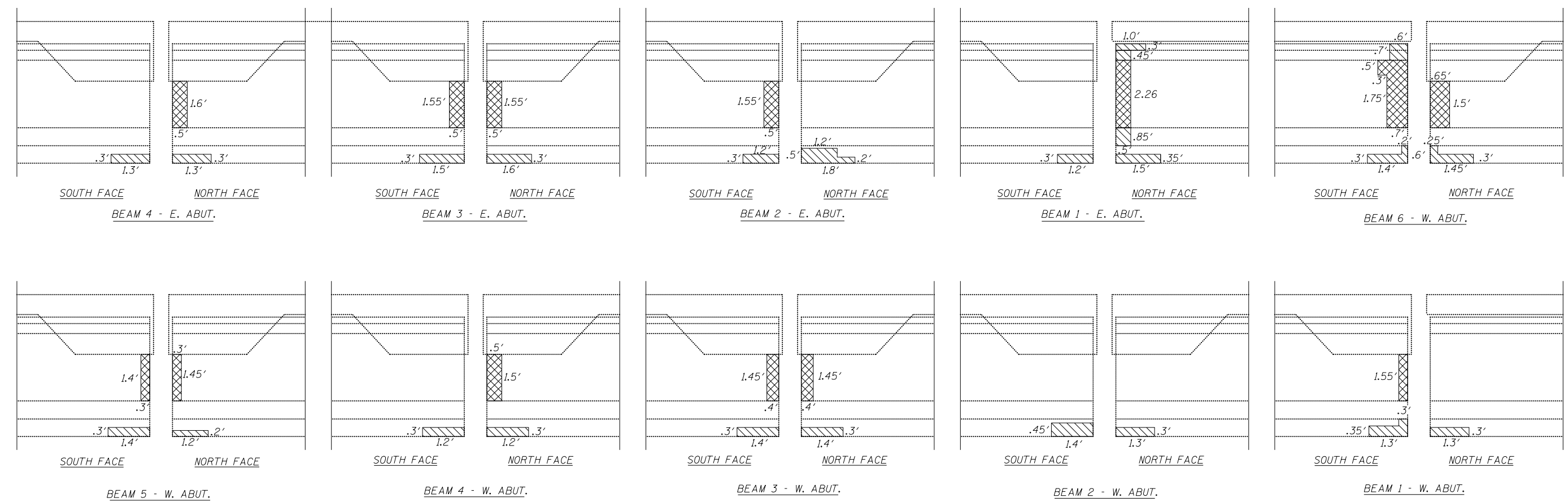
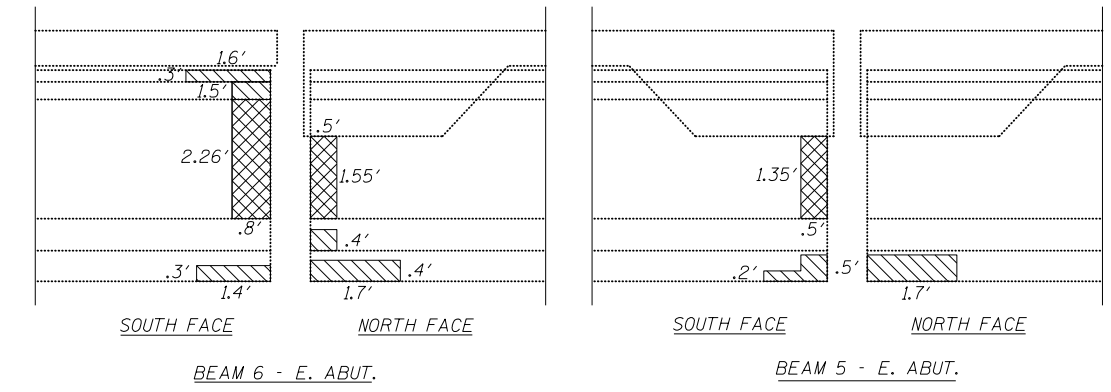
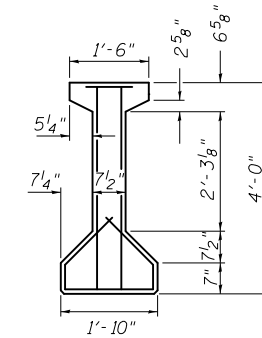
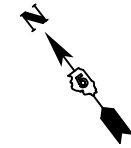
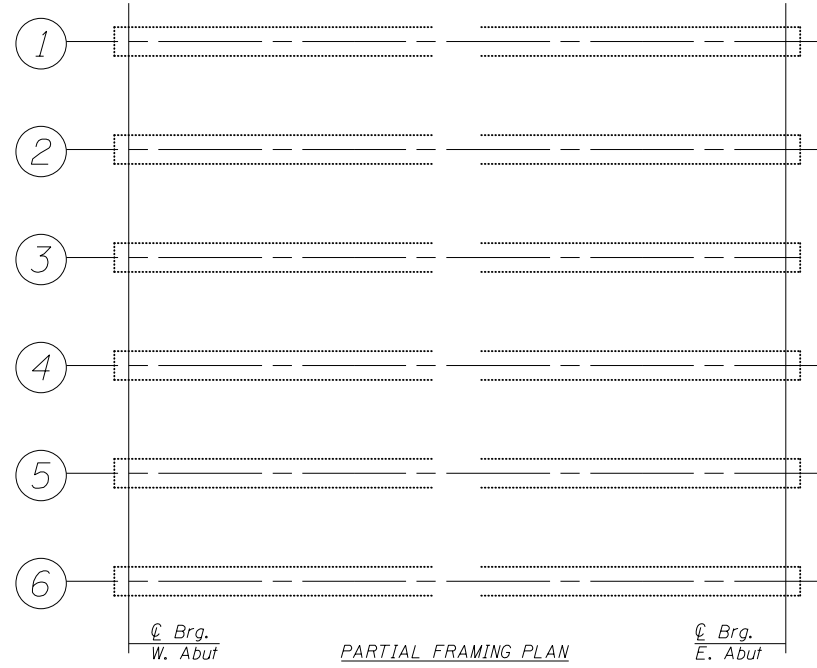
SCALE: SHEET 18 OF 31 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	*	DEWITT	166	144
CONTRACT NO. 90876			ILLINOIS FED. AID PROJECT	

BEAM END REPAIR DETAILS

S.N. 020-0036 (EB)

Beam Numbers



Structural Repair of Concrete, Depth Equal to or Less than 5"
 Polymer Modified Portland Cement Mortar

BILL OF MATERIAL

Item	Unit	Total
Structural Repair of Concrete, Depth Equal to or Less than 5"	Sq Ft	14.0
Polymer Modified Portland Cement Mortar	Sq Ft	13.0

•20-1(HVB,HB-1,VB-1,B,B-1)I

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	PLOT DATE = 10/13/2015	DATE <i>11/29/2011</i>	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

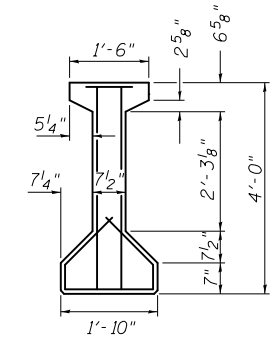
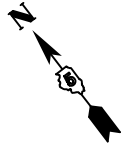
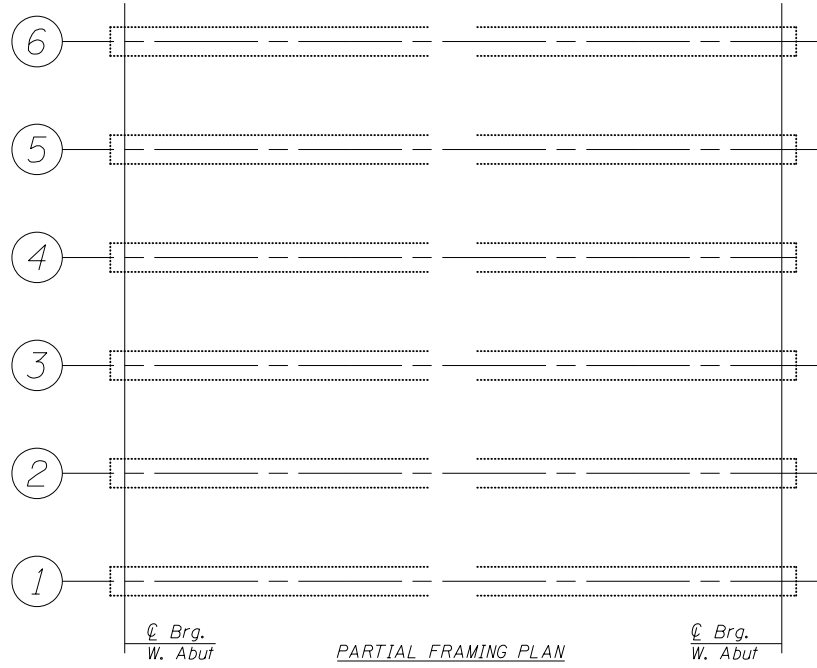
BEAM END REPAIR DETAILS
S.N. 020-0036 (EB)

SCALE: SHEET 19 OF 31 SHEETS STA. TO STA.

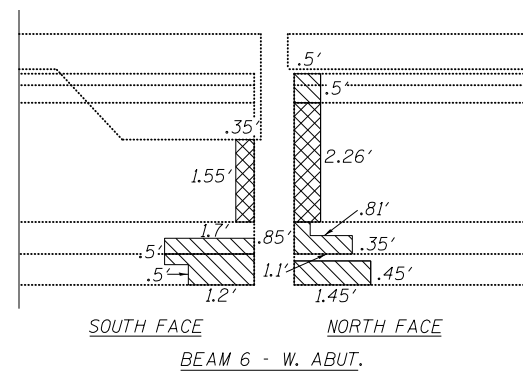
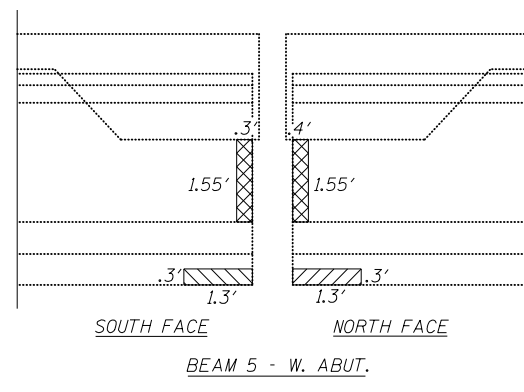
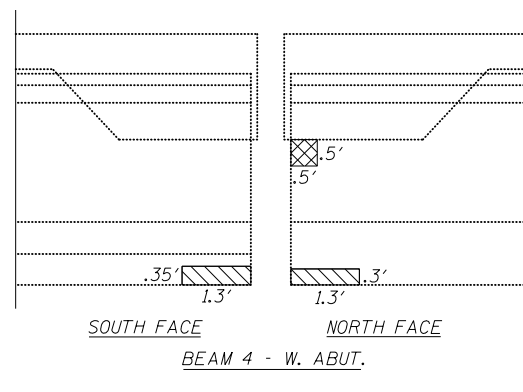
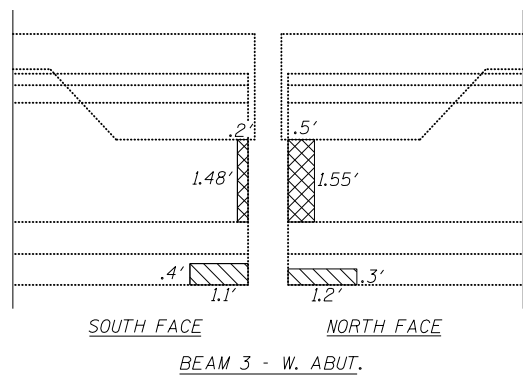
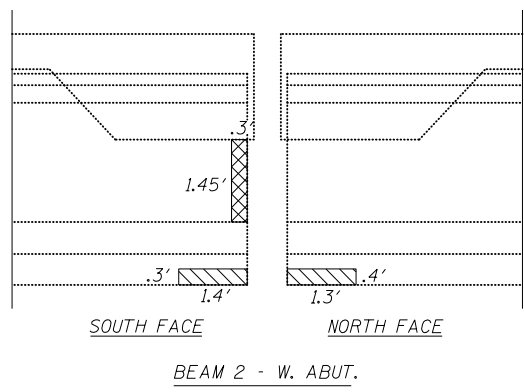
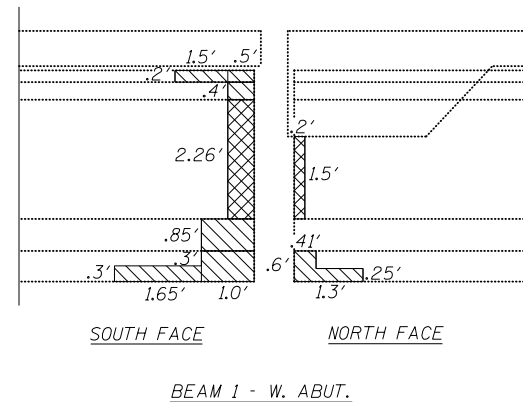
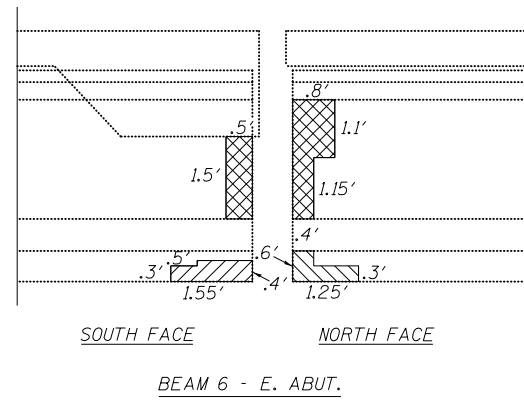
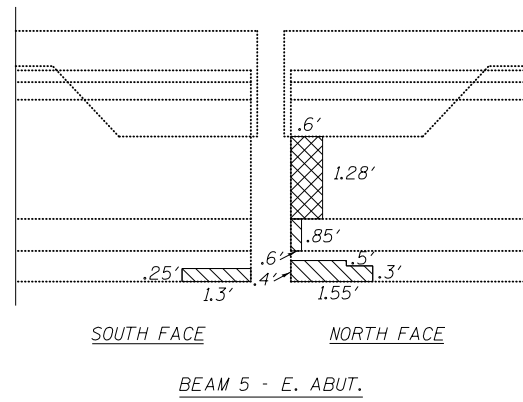
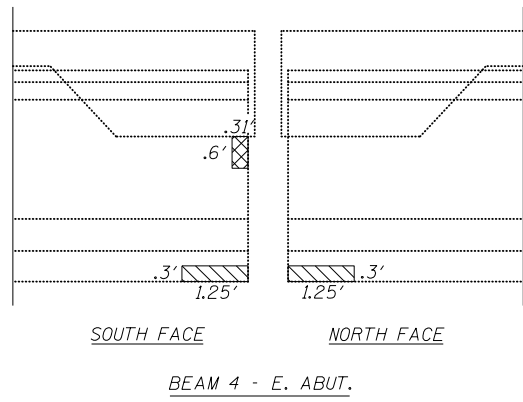
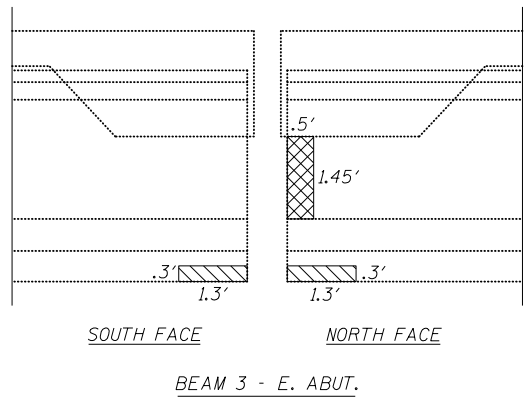
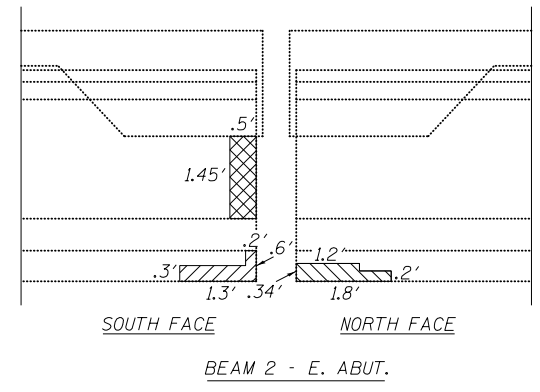
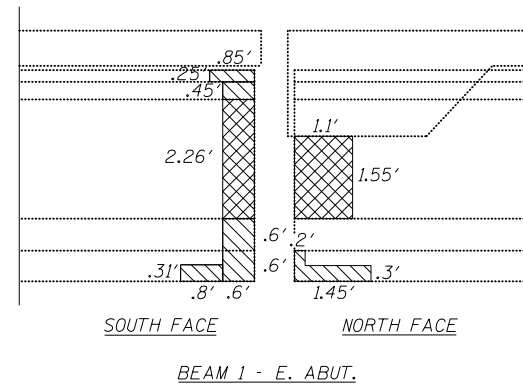
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	*	DEWITT	166	145
				CONTRACT NO. 90876
ILLINOIS FED. AID PROJECT				

BEAM END REPAIR DETAILS S.N. 020-0037 (WB)

Beam Numbers



TYPICAL CROSS SECTION



- Structural Repair of Concrete, Depth Equal to or Less than 5"
- Polymer Modified Portland Cement Mortar

BILL OF MATERIAL

Item	Unit	Total
Structural Repair of Concrete, Depth Equal to or Less than 5"	Sq Ft	17.0
Polymer Modified Portland Cement Mortar	Sq Ft	14.0

•20-1(HVB,HB-1,VB-1,B,B-1)I

FILE NAME =	USER NAME = brandenburgtj	DESIGNED <i>RTC</i>	REVISED -
pw:\IL\084EBIDINTEG\illinois.gov\PWIDOT\Documents\DOT Offices\District 5\Projects\0504\Bridges\020-0037\020-0037-details.sht		DRAWN <i>TJB</i>	REVISED -
PLOT SCALE = 40.0000' / in.		CHECKED <i>TJB</i>	REVISED -
PLOT DATE = 10/13/2015		DATE <i>11/29/2011</i>	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

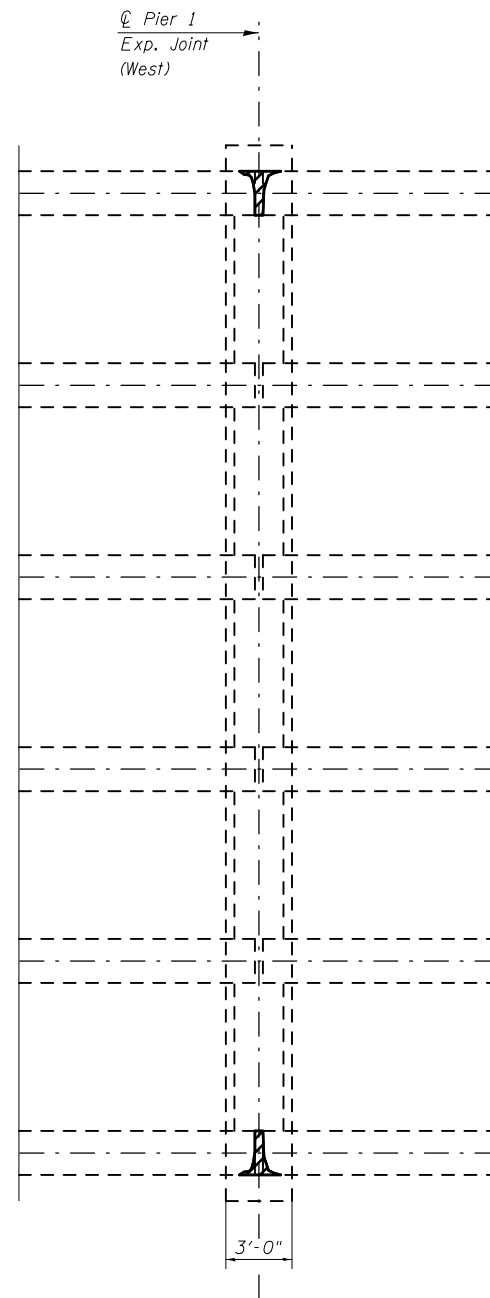
**BEAM END REPAIR DETAILS
S.N. 020-0037 (WB)**

SCALE: SHEET 20 OF 31 SHEETS STA. TO STA.

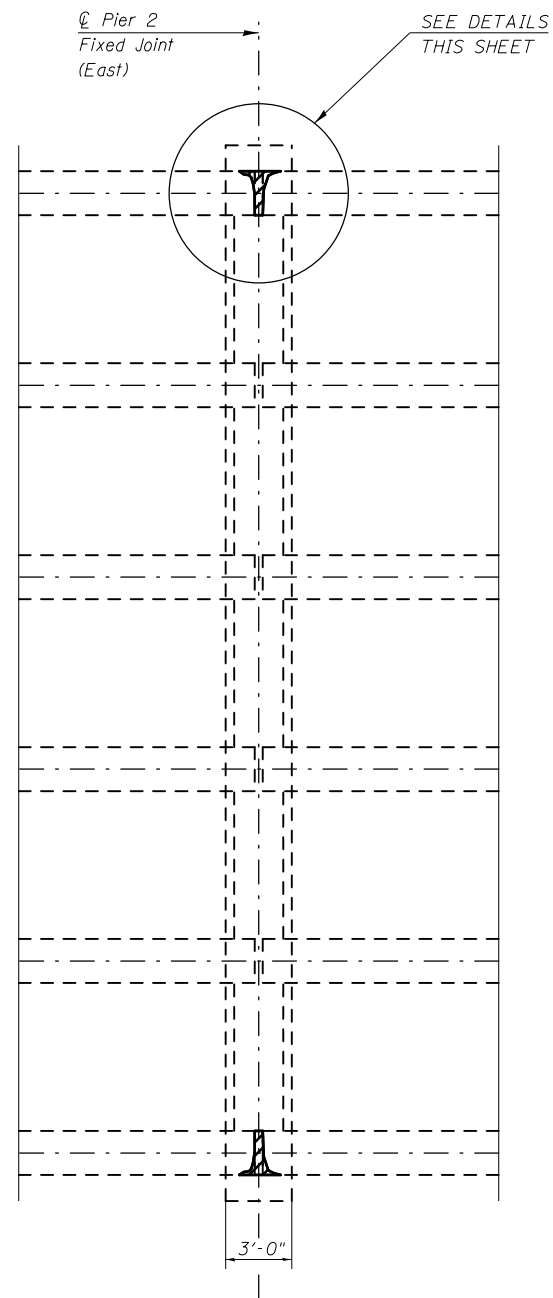
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	*	DEWITT	166	146
CONTRACT NO. 90876				
ILLINOIS FED. AID PROJECT				

COMPRESSION BLOCK REPAIRS

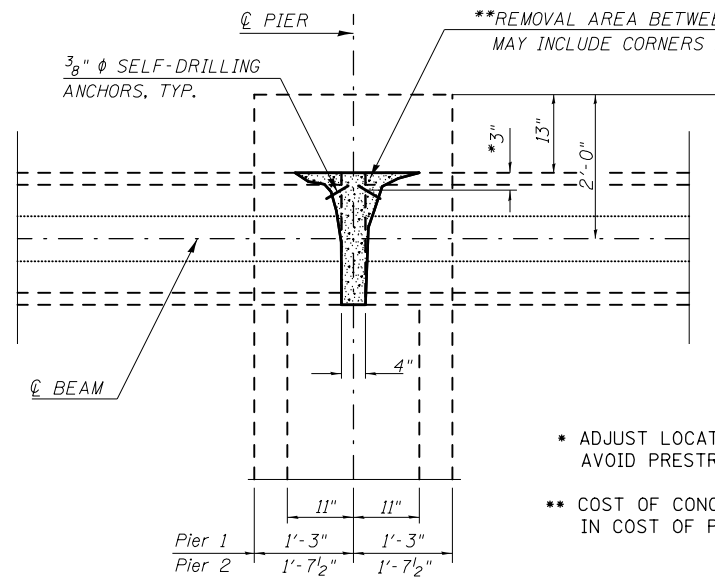
S.N. 020-0036 & S.N. 020-0037



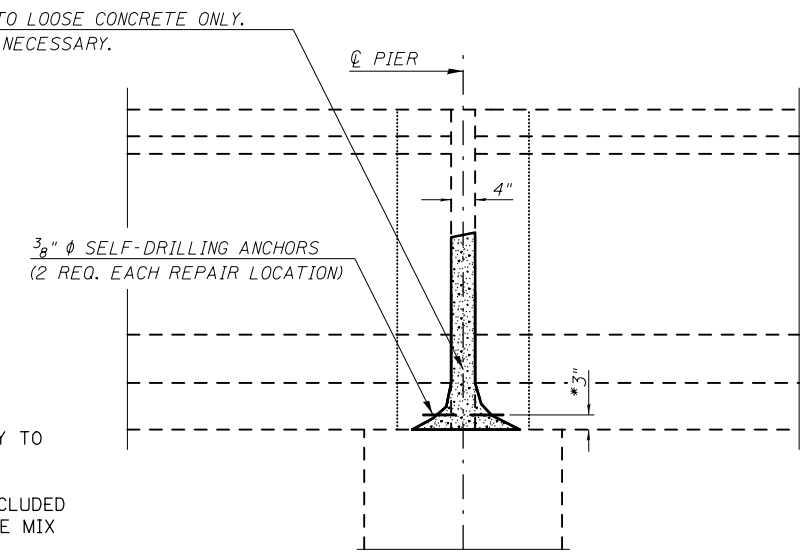
PLAN AT PIER 1
(SHOWING REPAIR LOCATIONS)



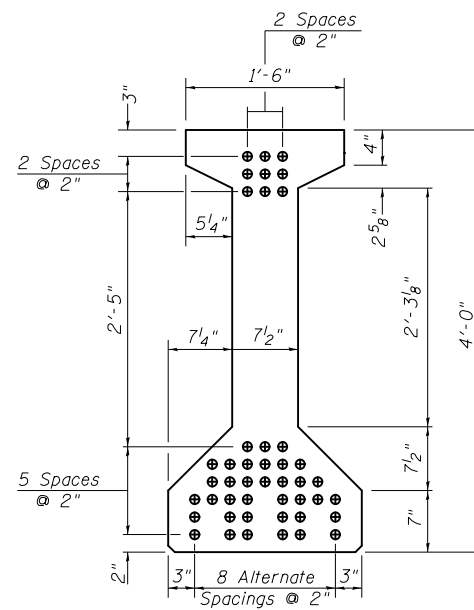
PLAN AT PIER 2
(SHOWING REPAIR LOCATIONS)



PLAN
(COMPRESSION BLOCK REPAIR)



ELEVATION
(COMPRESSION BLOCK REPAIR)



SECTION OF P.P.C. I-BEAM
(SHOWING PRE-STRESSING STRANDS)

- ADJUST LOCATION AS NECESSARY TO AVOID PRESTRESSING STRANDS
- COST OF CONCRETE REMOVAL INCLUDED IN COST OF PUMPABLE CONCRETE MIX

NOTES

The removal of the existing concrete at the compression block repair locations shall be limited to all loose or delaminated concrete only. The contractor shall use extreme care during this removal process to prevent any damage to the existing pre-stressing strands. Special attention shall also be given when using self-drilling anchors in the patch areas. The anchors should not make contact with any of the pre-stressing strands.

The contractor shall use a pumpable concrete mix for the repair. See special provision for pumpable concrete mix for mix requirements. Costs for all work and materials necessary to complete the repairs as shown on this sheet shall be included in cost of Pumpable Concrete Mix.

BILL OF MATERIAL

Structure	Item	Unit	Total
020-0036	Pumpable Concrete Mix	Cu Ft	3.0
020-0037	Pumpable Concrete Mix	Cu Ft	3.0

FILE NAME =	USER NAME = brandenburgtj	DESIGNED <i>RTC</i>	REVISED -
pw:\11\084EBIDINTEG.illinois.gov\PIWIDOT\Documents\DOT Offices\District 5\Projects\0504\Drawings\084EBIDINTEG\084EBIDINTEG-Details.sht		CHECKED <i>TJB</i>	REVISED -
		DATE <i>11/29/2011</i>	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

COMPRESSION BLOCK REPAIRS
S.N. 020-0036 (EB) AND S.N. 020-0037 (WB)

SCALE: SHEET 21 OF 31 SHEETS STA. TO STA.

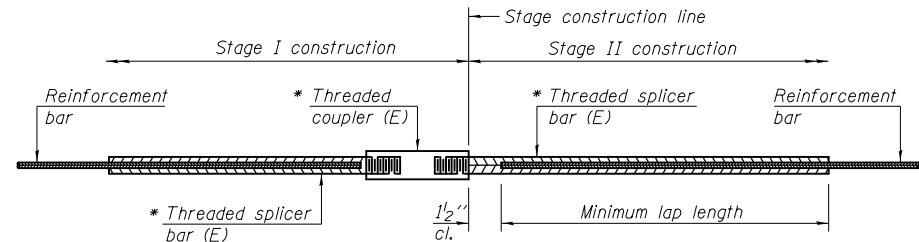
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	*	DEWITT	166	147
CONTRACT NO. 90876				
ILLINOIS FED. AID PROJECT				

*20-1(HVB,HB-1,VB-1,B,B-1)I

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS

S.N. 020-0036

S.N. 020-0037



STANDARD BAR SPLICER ASSEMBLY

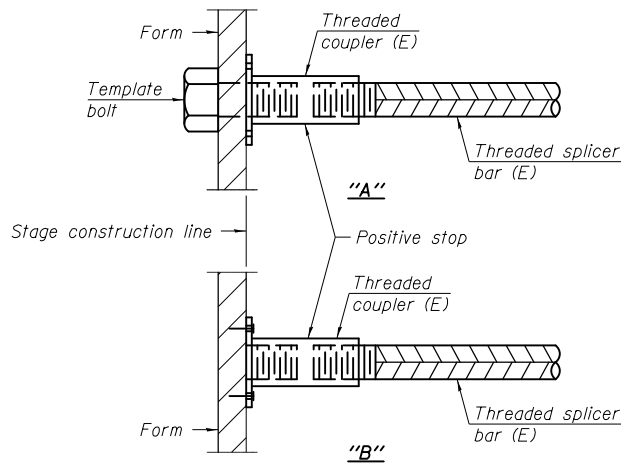
Bar size to be spliced	Minimum Lap Lengths				
	Table 1	Table 2	Table 3	Table 4	Table 5
3, 4	1'-5"	1'-11"	2'-1"	2'-4"	2'-3"
5	1'-9"	2'-5"	2'-7"	2'-11"	2'-10"
6	2'-1"	2'-11"	3'-1"	3'-6"	3'-4"
7	2'-9"	3'-10"	4'-2"	4'-8"	4'-6"
8	3'-8"	5'-1"	5'-5"	6'-2"	5'-10"
9	4'-7"	6'-5"	6'-10"	7'-9"	7'-5"

- Table 1: Black bar, 0.8 Class C
- Table 2: Black bar, Top bar lap, 0.8 Class C
- Table 3: Epoxy bar, 0.8 Class C
- Table 4: Epoxy bar, Top bar lap, 0.8 Class C
- Table 5: Epoxy bar, Top bar lap, Class B

Threaded splicer bar length = min. lap length + 1/2" + thread length

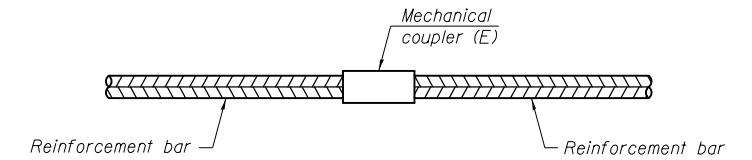
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Structure	Location	Bar size	No. assemblies required	Table for minimum lap length
020-0032	Deck End	#6	6	3
	Hatch Block	#6	8	3
020-0033	Deck End	#6	6	3
	Hatch Block	#6	8	3



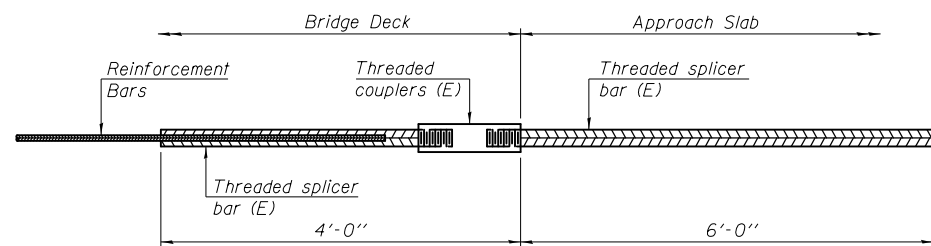
INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.
 "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
 (E) : Indicates epoxy coating.



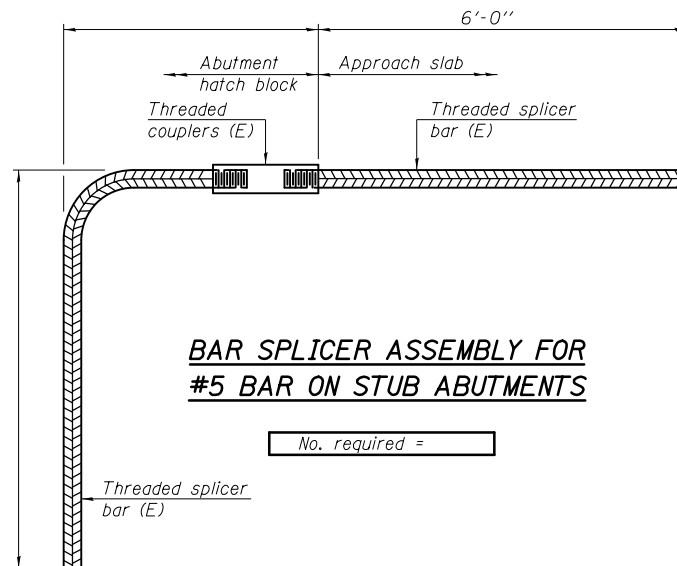
STANDARD MECHANICAL SPLICER

Bar Size	No. Assemblies Required	Location



BAR SPLICER ASSEMBLY FOR #5 BAR ON INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

No. required =



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

No. required =

NOTES

- Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.
- All reinforcement shall be lapped and tied to the splicer bars.
- Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.
- See special provision for Mechanical Splicers.
- See approved list of bar splicer assemblies and mechanical splicers for alternatives.

BSD-1

7-1-10

•20-1(HVB,HB-1,VB-1,B,B-1)I

FILE NAME =	USER NAME = brandenburgtj	DESIGNED <i>RTC</i>	REVISED -
pw:\11084EBID\INTEG.illinois.gov\PIWIDOT\Documents\DOT Offices\District 5\Projects\0504\BANDATA\90876-details.sht	DRAWN <i>TJB</i>	CHECKED <i>TJB</i>	REVISED -
PLOT SCALE = 40.0000' / in.	DATE <i>11/29/2011</i>		REVISED -
PLOT DATE = 10/13/2015			

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
S.N. 020-0036 (EB) AND S.N. 020-0037 (WB)**

SCALE: SHEET 22 OF 31 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	*	DEWITT	166	148
				CONTRACT NO. 90876
ILLINOIS FED. AID PROJECT				

AS-BUILT PLANS (FOR INFORMATION ONLY)

S.N. 020-0036 (EB) & S.N. 020-0037 (WB)

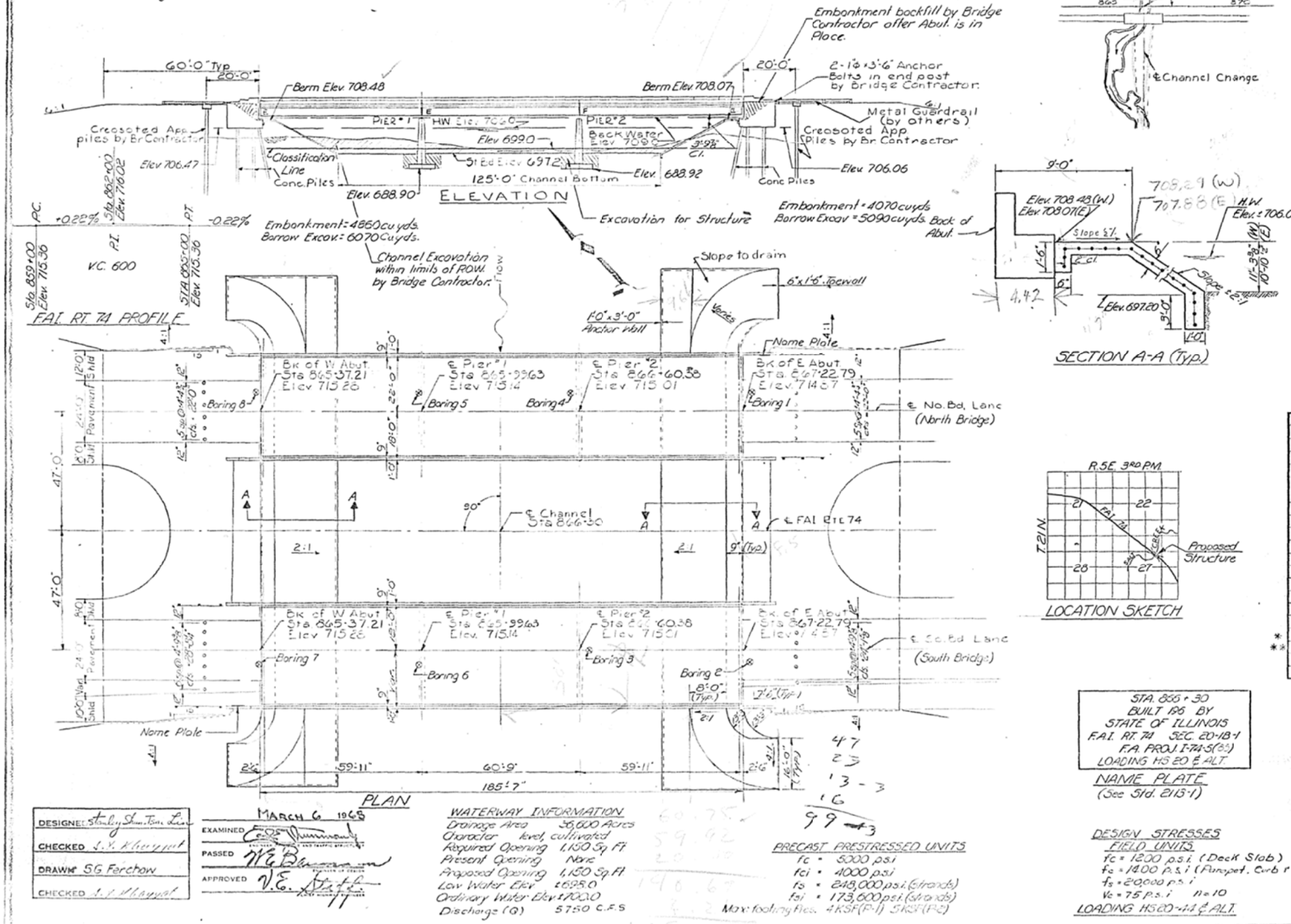
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

SHEET NO.	SECTION	COUNT	TOTAL SHEETS	SHEET NO.
74	20-1B-1	DEWITT	147	73
17 SHEETS				

E.M. Railroad Spikes in W. Face of 20" trees Sta. 866+22 & F.A.I. RT 74 14' ft. Elev 701.95

APPROACH PILE DATA

Type.....Crossed
Required Length.....18'
No. Required.....25
(6 piles each about 1 additional piles of the ramp of W. Abut South Bridge).



GENERAL NOTES

All reinforcement bars shall be lapped 24 diameters unless otherwise shown.

Except as otherwise provided, all structural steel shall receive one shop coat of red lead paint and two field coats of aluminum paint.

Slope wall shall be reinforced with welded wire fabric 6" x 6" mesh, weighing 58# per 100 sq. ft.

Layout of slope walls may be varied in the field to suit ground conditions as directed by the Engineer.

Class B Excavation for structures includes excavation for slope wall. The concrete rail section above the mandatory construction joint at the top of the slab shall be constructed of Class X Concrete, except the aggregates shall conform to the requirements of Handrail Concrete.

The Contractor shall drive two concrete test piles one each at the East Abut. So Bridge and West Abut. No. Bridge all in a permanent location as directed by the Engineer before ordering the remainder of piles.

The embankment configuration shown shall be the minimum embankment that must be constructed prior to construction of the abutments.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Channel Excavation	Cu Yds			7496
Borrow Excavation	Cu Yds			1169
Class B Excavation for Structures	Cu Yds		840	840
Furnishing & Erecting Precast Prestressed Concrete I-Beam (48")	Lin. Ft.	2175		2175
Class A Concrete	Cu Yds		443.8	443.8
Class X Concrete	Cu Yds	535.1	189.7	724.8
Reinforcement Bars	Lbs.	132560		132560
Structural Steel	Lbs.	8760		8760
Aluminum Railing	Lin. Ft.	730		730
Concrete Piles	Lin. Ft.		1750	1750
Test Piles (Concrete)	Ea.		2	2
Crossed Piles (to 20)	Lin. Ft.			450
Name Plates	Ea.	2		2
Slope Wall (6')	Sq. Yds.		1620	1620
Protective Coat	Sq. Yds.		1890	1890
Bridge Seat Sealant	L.S.			0.5

DESIGNED: *Stanley, Shum, Tom, Linn*
CHECKED: *J. V. Maynard*
DRAWN: *SG Ferchow*
CHECKED: *J. V. Maynard*

EXAMINED: *[Signature]*
PASSED: *[Signature]*
APPROVED: *[Signature]*

WATERWAY INFORMATION

Drainage Area 26,600 Acres
Character level, cultivated
Required Opening 1,150 Sp Ft
Present Opening None
Proposed Opening 1,150 Sp Ft
Low Water Elev 4695.0
Ordinary Water Elev 4700.0
Discharge (Q) 5750 C.F.S

PRECAST PRESTRESSED UNITS

$f_c = 5000$ psi
 $f_{ci} = 4000$ psi
 $f_s = 243,000$ psi (strands)
 $f_{si} = 173,600$ psi (strands)
Max. footing flex. 4KSF (P-1) 5KSF (P-2)

STA. 866+30
BUILT 196 BY
STATE OF ILLINOIS
F.A.I. RT 74 SEC. 20-1B-1
F.A. PROJ. I-74-5(85)
LOADING HS 20 E ALT.
NAME PLATE
(See Std. 215-1)

DESIGN STRESSES

FIELD UNITS

$f_c = 1200$ psi (Deck Slab)
 $f_s = 1400$ psi (Flange, Curb & Sub.)
 $f_s = 20000$ psi
 $f_v = 75$ psi $n = 10$
LOADING HS 20-44 E ALT.

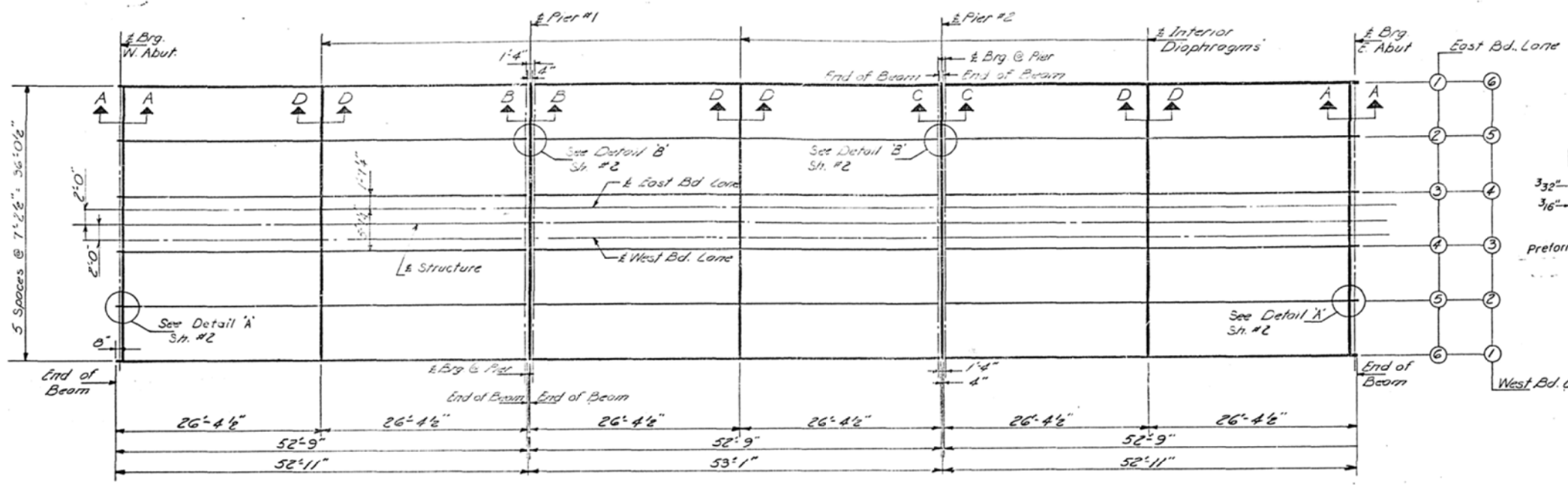
GENERAL PLAN & ELEVATION
F.A.I. RT. 74 OVER SALT CREEK
PROJECT I-74-5(85) 107
F.A.I. RT 74 SEC. 20-1B-1
DEWITT COUNTY
STA. 866+30

AS-BUILT PLANS (FOR INFORMATION ONLY)

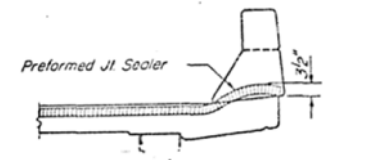
S.N. 020-0036 (EB) & S.N. 020-0037 (WB)

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

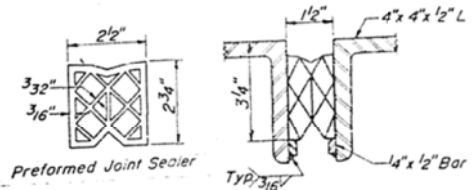
ROUTE NO.	MILEAGE	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO.
74	2.0	De Witt	28	7	15 SHEETS



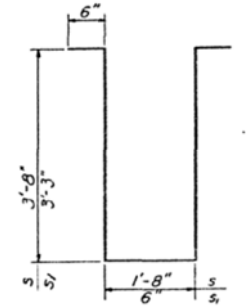
FRAMING PLAN



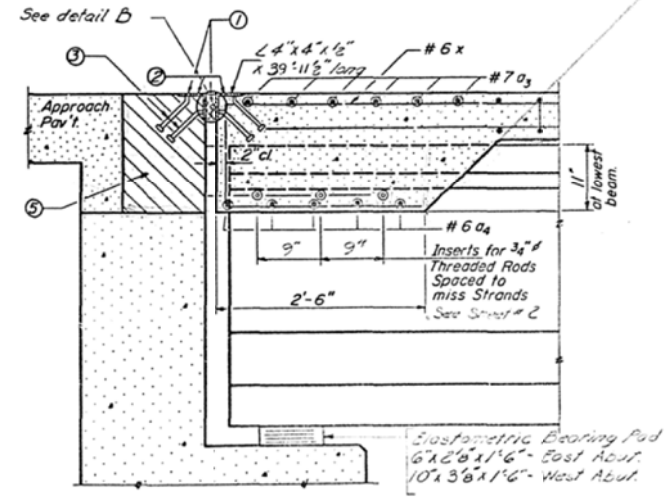
TYPICAL END OF SEALER TREATMENT



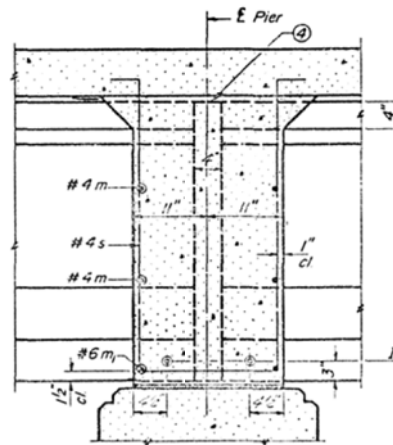
DETAIL-B



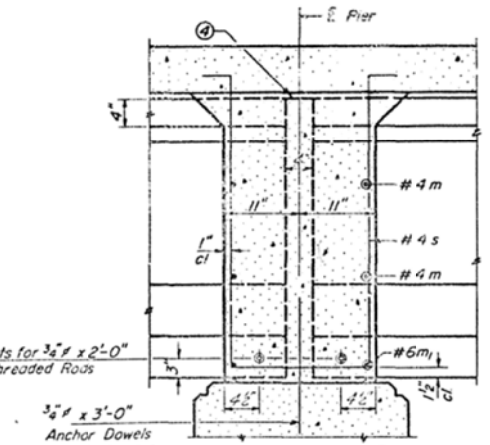
BARS s & B s1



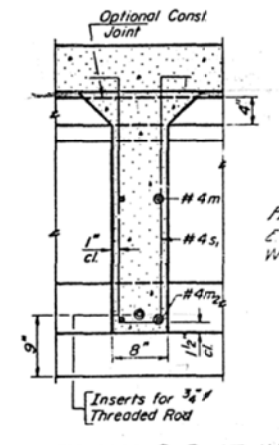
SECTION A-A AT ABUTMENT



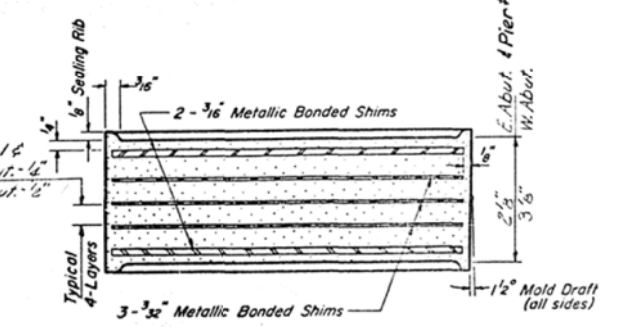
SECTION B-B PIER-1



SECTION C-C PIER-2



SECTION D-D AT INT. DIAPHRAGM



ELASTOMERIC BEARING DETAIL

DESIGNED <i>Jim King</i>	EXAMINED <i>[Signature]</i>
CHECKED <i>Smith DeMa</i>	PASSED <i>[Signature]</i>
DRAWN <i>Wentless JR</i>	APPROVED <i>[Signature]</i>
CHECKED <i>S.D.</i>	

- ① 7/8" holes at 12" cts for 3/8" bolts set on normal gage line. All bolts shall be burned, sawed or chipped off flush with the back of angles after forms are removed.
- ② 7/8" vent holes at 12" cts set on 1 3/8" gage line.
- ③ 3/4" x 8" CR 1020 STL granular or solid flux filled headed studs - automatically end welded (alternate at 1'-0" cts)
- ④ Pour diaphragm flush with top of beam. Concrete in slab above this line shall be placed not less than 45 minutes nor more than 90 minutes after diaphragm has been poured.
- ⑤ Hatched area to be poured after Superstructure forms have been removed. Quantity of Class X Concrete included with Superstructure.

Bars a₃, a₄, m, m₁, m₂; s & B s₁ are included in Bill of Material on Sheet # 6

BEARING & FRAMING PLAN
F.A.I. RT. 74 - SEC. 20-1B
DeWITT COUNTY
STA. 816 +90

PI-2J 1-27-66

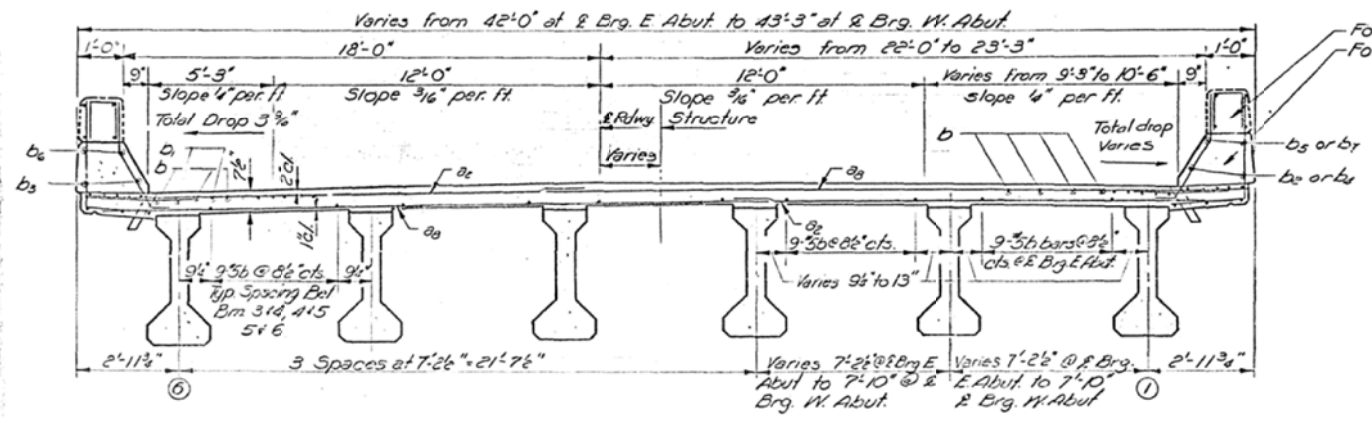
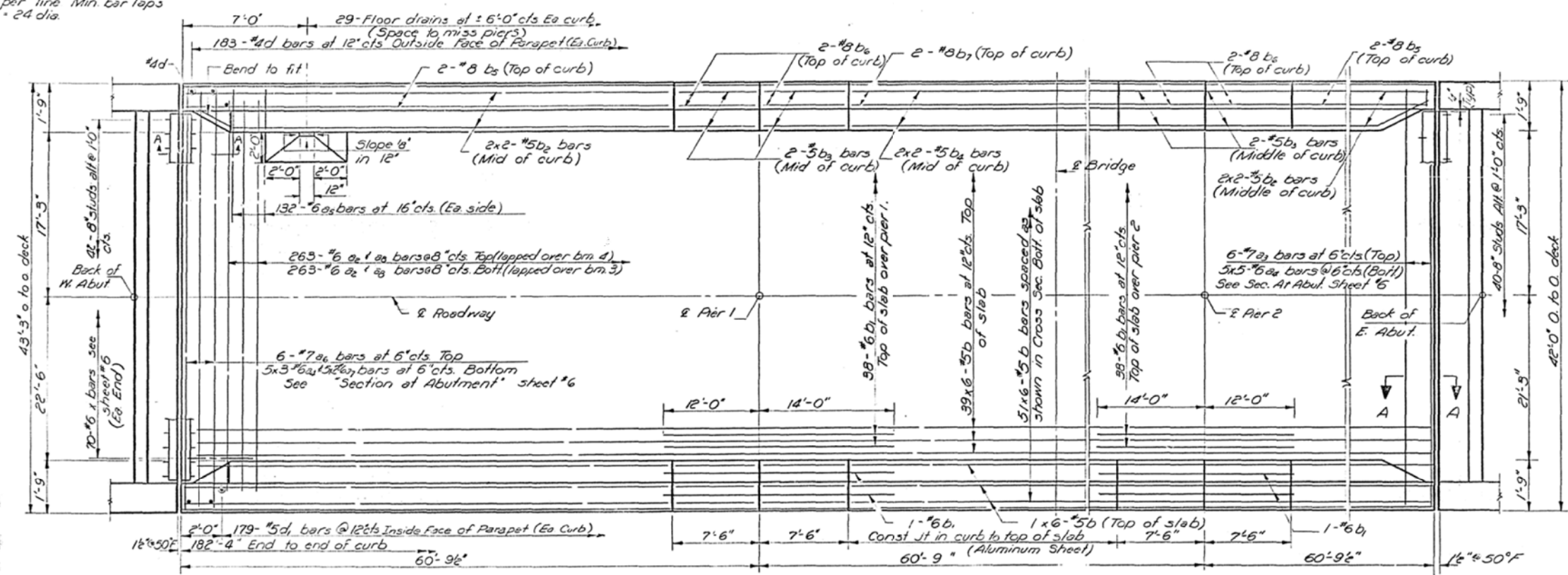
AS-BUILT PLANS (FOR INFORMATION ONLY)

S.N. 020-0036 (EB) & S.N. 020-0037 (WB)

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

REVISED NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	20-18-1	DEWITT	147	77
SHEET NO. 5				17 SHEETS

Note:
Bars indicate thus 20x
3-#5 etc indicate 20 lines
of bars with 3 lengths
per line Min. bar laps
= 24 dia.



CROSS SECTION
looking East

BILL OF MATERIAL

BAR	NO	SIZE	LENGTH	SHAPE
a ₂	526	#6	18'-9"	—
a ₃	6	#7	41'-4"	—
a ₄	40	#6	6'-4"	—
a ₅	264	#6	4'-0"	—
a ₆	6	#7	42'-7"	—
a ₇	10	#6	7'-0"	—
a ₈	526	#6	26'-4"	—
b	576	#5	31'-6"	—
b ₁	84	#6	26'-0"	—
b ₂	16	#5	27'-3"	—
b ₃	16	#5	7'-5"	—
b ₄	8	#5	23'-6"	—
b ₅	8	#8	53'-0"	—
b ₆	16	#8	7'-3"	—
b ₇	4	#8	45'-6"	—
d	366	#4	4'-4"	—
d ₁	358	#5	3'-5"	—
m	100	#4	6'-4"	—
m ₁	20	#6	5'-2"	—
m ₂	60	#4	5'-5"	—
s	50	#4	11'-2"	—
s ₁	150	#4	8'-8"	—
x	140	#6	8'-4"	—
Reinforcement Bars lbs.				69750
Structural Steel lbs.				4400
Class X Concrete Cu. Yds.				2575

For locations and details of bars m, m₁, m₂, s and s₁, see sheet #8
For details of bars d, d₁, e₂ see sheet #4
The quantities of reinforcement bars and concrete in parapets are billed separately on sheet #9 and are not included above.

DESIGNED *S. Lin*
CHECKED *A. Y. Khayyat*
DRAWN *J. M. Henniger*
CHECKED *A. Y. Khayyat*

MARCH 6 1968
EXAMINED *W. E. Bauman*
PASSED *W. E. Bauman*
APPROVED *W. E. Bauman*

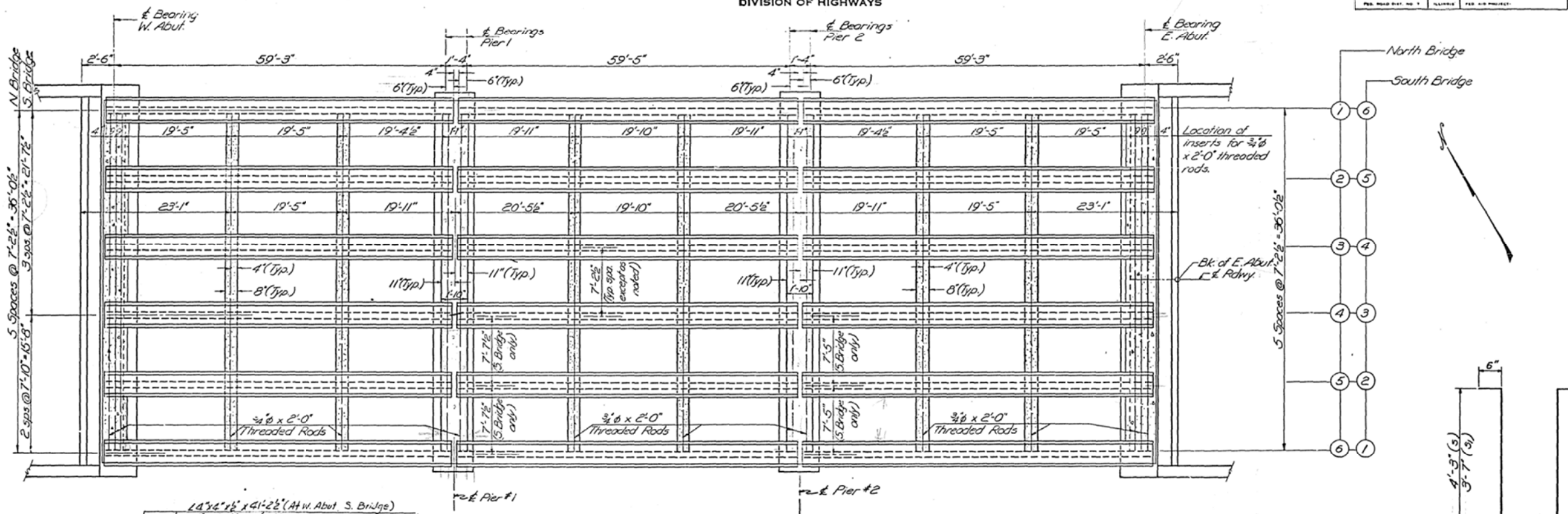
Note: For details of 1/8" Alum Sheet, Drain and Sec A-A see sheet #4

SUPERSTRUCTURE
SOUTH BRIDGE
FA.I. RT. 74 SEC 20-18-1
DEWITT COUNTY
STA. 866+30

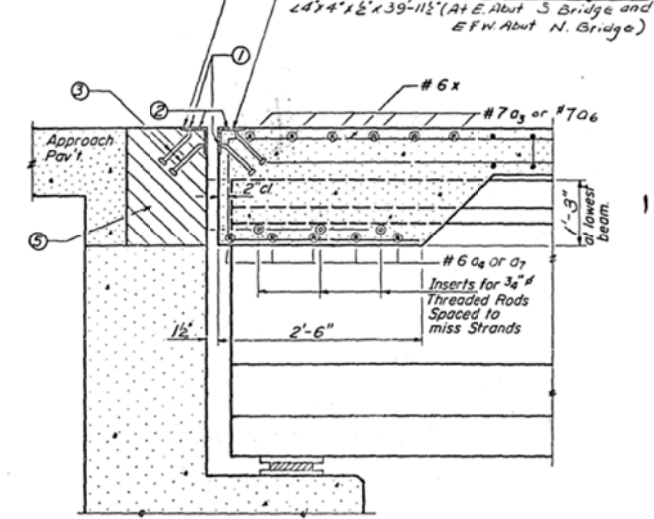
AS-BUILT PLANS (FOR INFORMATION ONLY) S.N. 020-0036 (EB) & S.N. 020-0037 (WB)

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

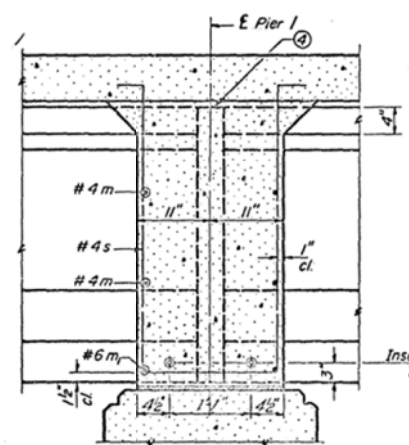
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74	20-1B-1	DEWITT	147	78
SHEET NO. 6				
17 SHEETS				



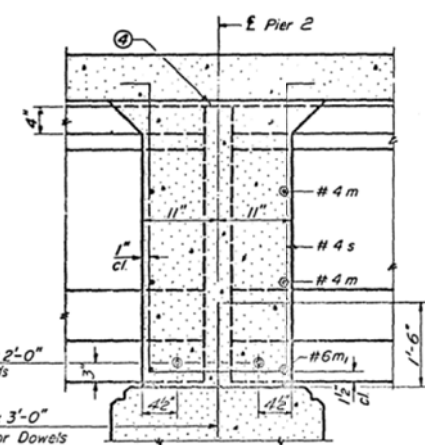
PLAN



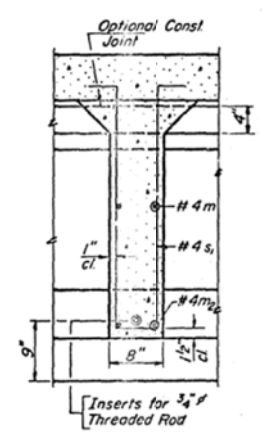
SECTION AT ABUTMENT



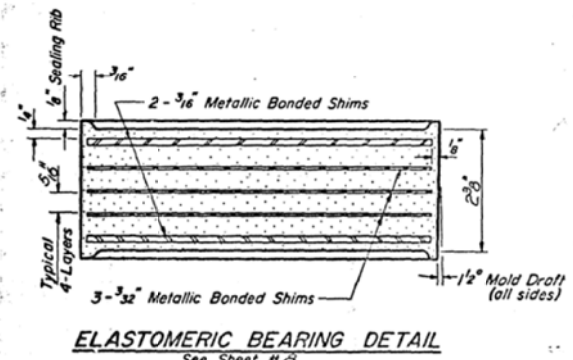
PIER 1



PIER 2



SEC. AT INT. DIAPHRAGM



ELASTOMERIC BEARING DETAIL
See Sheet #3

DESIGNED <i>Stanley S. J.</i>	EXAMINED <i>March 6 1968</i>
CHECKED <i>A. Y. Khayrat</i>	PASSED <i>W. E. Baumgardner</i>
DRAWN <i>Wentless</i>	APPROVED <i>V. E. Stutz</i>
CHECKED <i>A. Y. Khayrat</i>	

- ① 7/8" holes at 12" cts for 3/8" bolts set on normal gage line. All bolts shall be burned, sawed or chipped off flush with the back of angles after forms are removed.
- ② 7/8" vent holes at 12" cts set on 1 1/2" gage line.
- ③ 3/4" x 8" CR 1020 STL granular or solid flux filled headed studs—automatically end welded. (alternate at 1'-0" cts.)
- ④ Pour diaphragm flush with top of beam. Concrete in slab above this line shall be placed not less than 45 minutes nor more than 90 minutes after diaphragm has been poured.
- ⑤ Hatched area to be poured after Superstructure forms have been removed. Quality of Class X Concrete included with Superstructure.

Anchor Dowels Cast incidental. For Spacing See Sheet #13
Bars a₃, a₄; m, m₁, m₂; s & s₁ are included in Bill of Material on Sheet #4 & #5

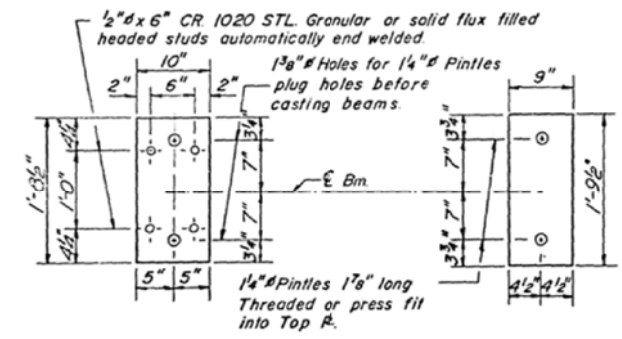
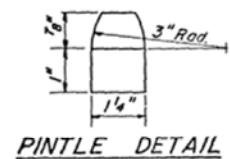
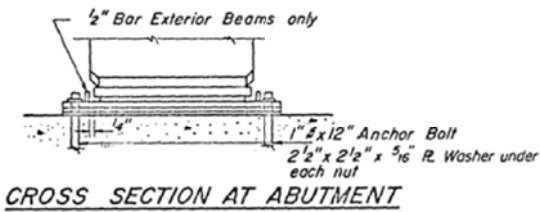
FRAMING PLAN
N. BRIDGE & S. BRIDGE
FAI RT. 74 SEC. 20-1B-1
DEWITT COUNTY
STA. 866+30

AS-BUILT PLANS (FOR INFORMATION ONLY)

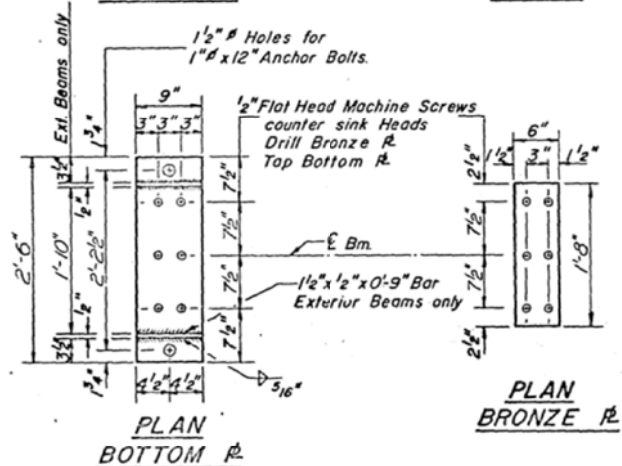
S.N. 020-0036 (EB) & S.N. 020-0037 (WB)

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

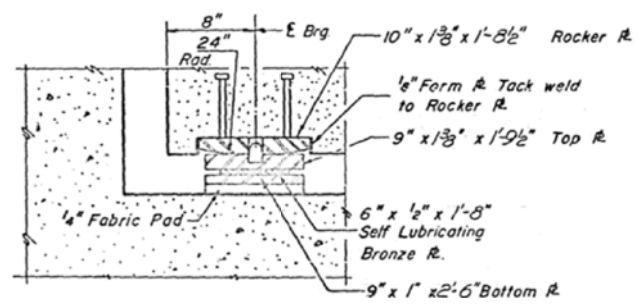
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 3
74	20-1B-1	DEWITT	147	80	17 SHEETS
FED. ROAD DIST. NO. 7					



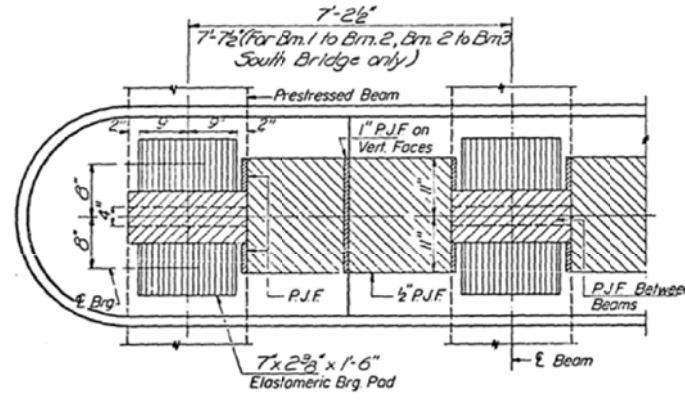
PLAN TOP R



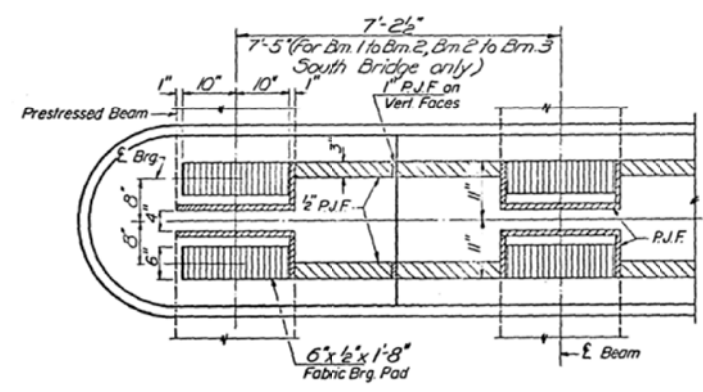
PLAN BOTTOM R



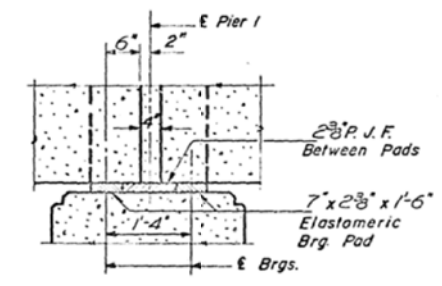
SECTION AT ABUTMENT
(Dimensions Along E of Beam)



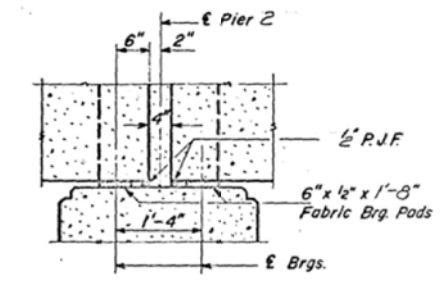
PIER 1



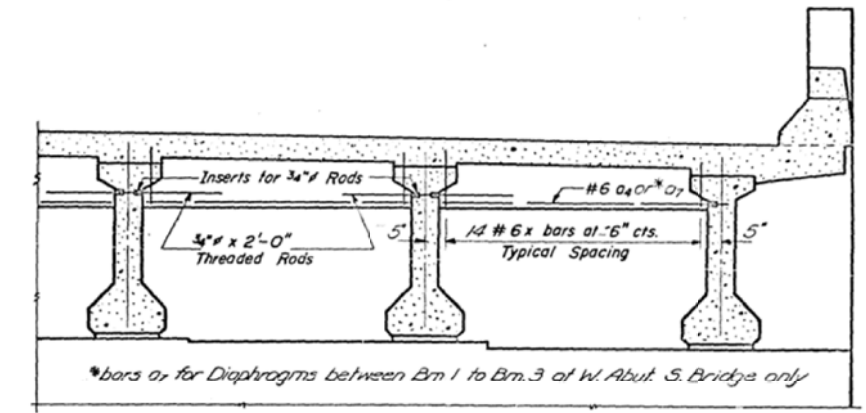
PIER 2



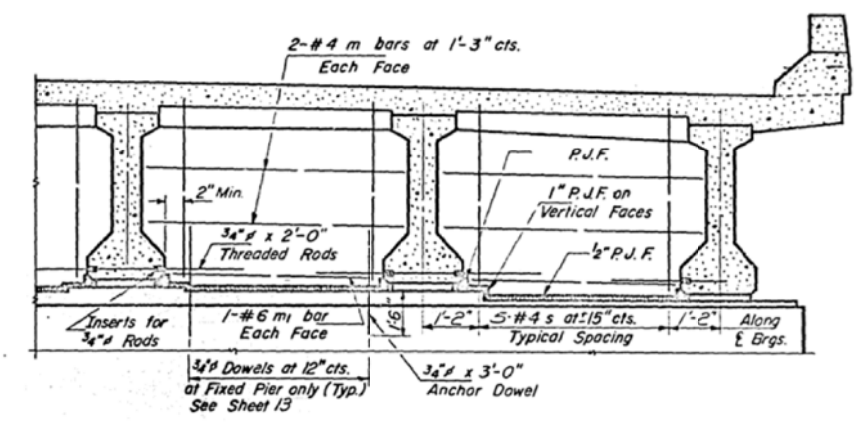
PIER 1
(Dimensions Along E of Beam)



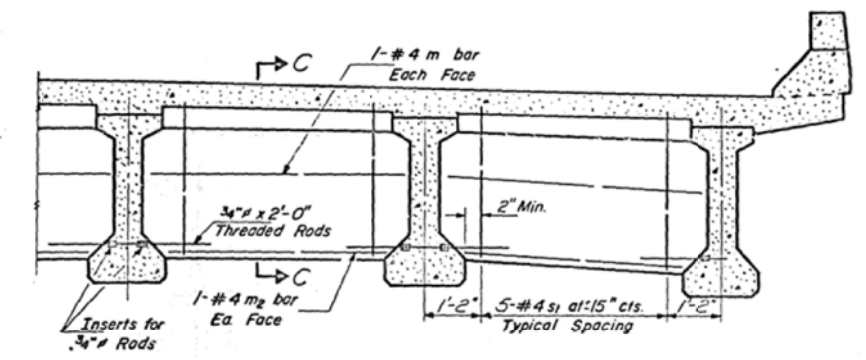
PIER 2
(Dimensions Along E of Beam)



DIAPHRAGM AT ABUTMENT



DIAPHRAGM AT PIERS



INTERIOR DIAPHRAGMS
(For Sec. C-C See Sheet #6)

DESIGNED: <i>Stacy S. L.</i>	EXAMINED: <i>W.E. Brumm</i>
CHECKED: <i>A.Y. Khayyat</i>	PASSED: <i>W.E. Brumm</i>
DRAWN: <i>T.B. Fuller</i>	APPROVED: <i>W.E. Brumm</i>
CHECKED: <i>A.Y. Khayyat</i>	

PI-3 S 6-15-66

MARCH 6 1968

Note:
Weight of Armor Angles and Anchor Bolts; Top Plate, Bottom, Plates Bronze Plates of Bearing Assemblies is included in the weight of Structural Steel on Sheet 415.
Cost of Elastomeric and Fabric Bearing Pad and Cost of Rocker R. cast into beam are included in the cost of "Furnishing and Erecting Precast Prestressed Concrete I-Beams."

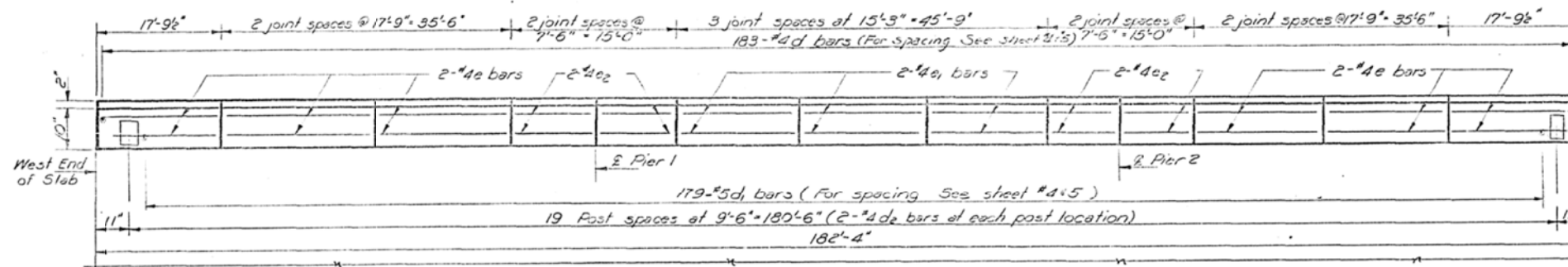
BEARING DETAILS
F.A.I. RT. 74 SEC. 20-1B-1
DEWITT COUNTY
STA. 866+30

AS-BUILT PLANS (FOR INFORMATION ONLY)

S.N. 020-0036 (EB) & S.N. 020-0037 (WB)

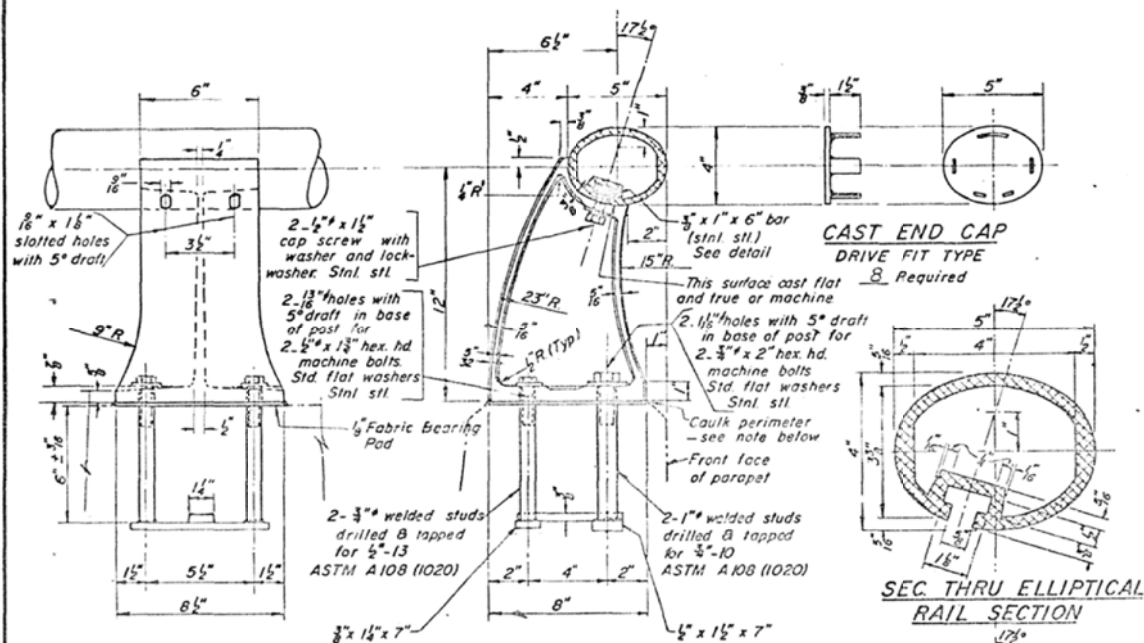
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

SHEET NO.	SECTION	COUNT	TOTAL SHEETS	SHEET NO.
74	20-1B-1	DEWITT	147	51
17 SHEETS				



HALF PLAN

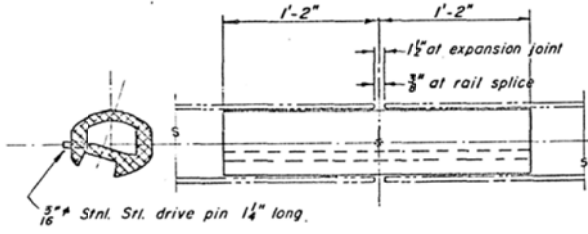
North parapet shown. South parapet of North Bridge similar by rotation through 180°. South parapet of South Bridge similar by rotation through 180°-23°-34'.



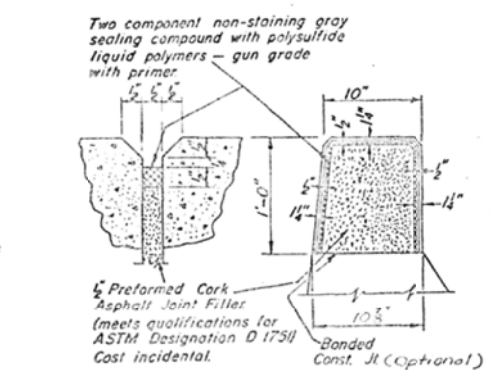
RAIL POST DETAILS

DESIGNED <i>S. Liu</i>	EXAMINED <i>MARCH 6 1968</i>
CHECKED <i>L.Y. Mayyat</i>	PASSED <i>W.E. Beaman</i>
DRAWN <i>Win M. Best</i>	APPROVED <i>V.E. Hoff</i>
CHECKED <i>L.Y. Mayyat</i>	

R-17 1-18-68



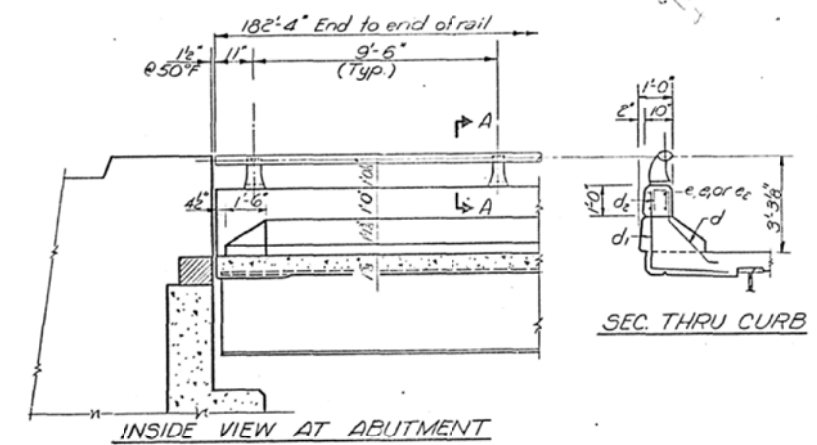
RAIL SPLICE



PARAPET JOINT DETAIL



CLAMP BAR



INSIDE VIEW AT ABUTMENT

SEC. THRU CURB

**PARAPETS & RAILS
BILL OF MATERIAL**

Bar	No	Size	Length	Shape
e	96	#4	17'-5"	—
e1	48	#4	15'-0"	—
e2	64	#4	7'-5"	—
d1	160	#4	2'-1"	□
d2				
Class X Concrete		Cu Yds	23.6	
Reinforcement Bars		Lbs	2140	
Aluminum Railing		Lin Ft	730	

NOTES:
All Aluminum Alloy Extruded Rail shall be supplied in modular lengths of 30 feet, except at the end of bridge or over open joints in bridge deck where the rail shall be attached to a minimum of 2 posts. If the rail is on a horizontal curve of 2300 foot radius or less, the modular lengths may be reduced but shall be attached to a minimum of 2 posts.
All joints in rail shall be spliced per detail.
Provide 1-1/2" and 2-1/8" Aluminum Shims for 25% of the Posts. Rail element shall be parallel to Grade - high spots shall be ground and low spots shimmed.
Seal perimeter of base of post to parapet with two component non-staining gray sealing compound with polysulfide liquid polymers, gun grade with primer. Fabric Bearing Pad shall have same dimensions as base of post.

Aluminum alloy rail shall conform to ASTM B 221 alloy 6061-T6 or 6351-T5 with min. yield 35 ksi, min. tensile 39 ksi, and elongation of 10% in 2 inches.

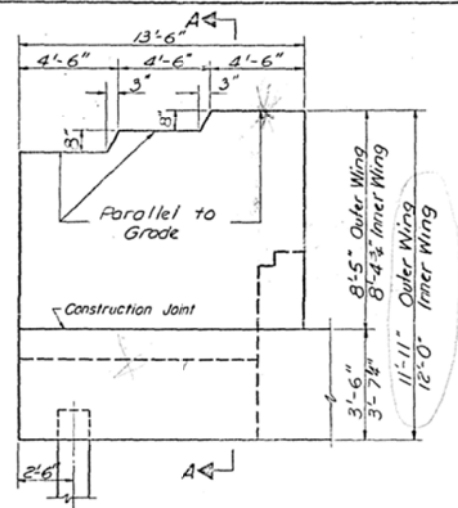
ALUMINUM RAILING
F.A.I. RT. 74 SEC 20-1B-1
DEWITT COUNTY
STA. 856+30

AS-BUILT PLANS (FOR INFORMATION ONLY)

S.N. 020-0036 (EB) & S.N. 020-0037 (WB)

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

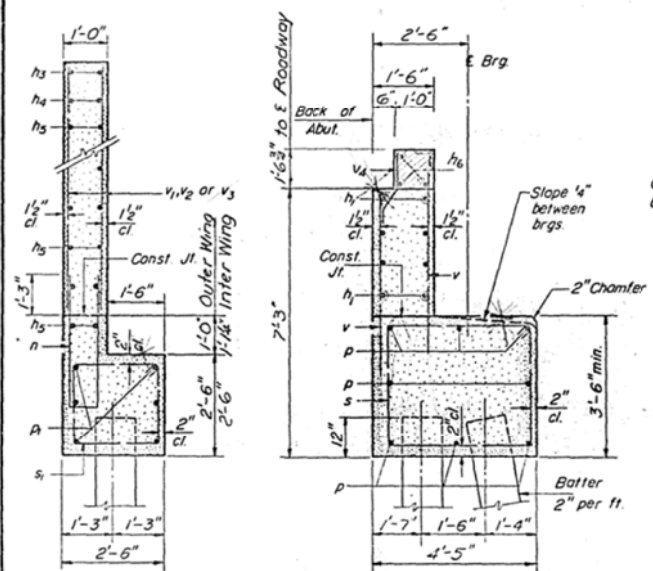
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	20-1B-1	DEWITT	147	82
SHEET NO. 10		17 SHEETS		



WING WALL ELEVATION

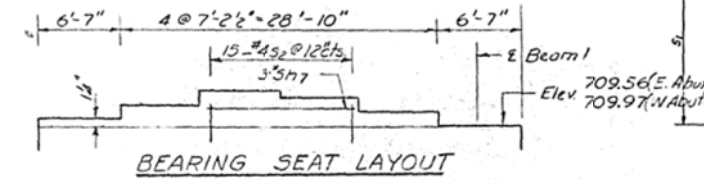
BEARING SEAT ELEVATIONS

	Em. 1	Em. 2	Em. 3	Em. 4	Em. 5	Em. 6
E. Abut. S. Br.	709.56	709.72	709.88	709.91	709.90	709.86
W. Abut. N. Br.	709.97	710.13	710.26	710.32	710.21	710.27



SEC. A-A

SEC. THRU ABUT.

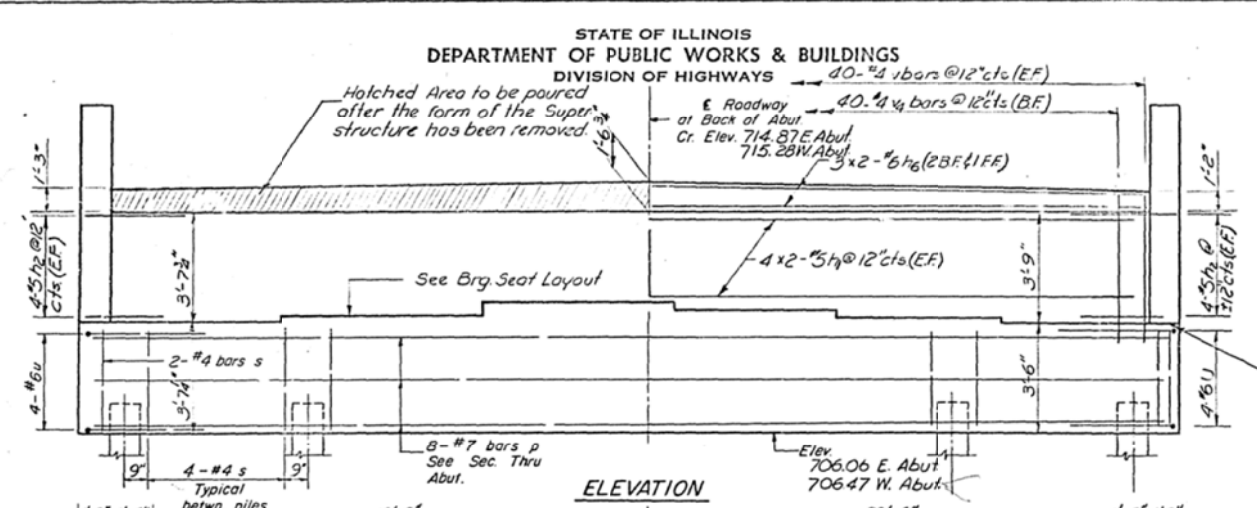


BEARING SEAT LAYOUT

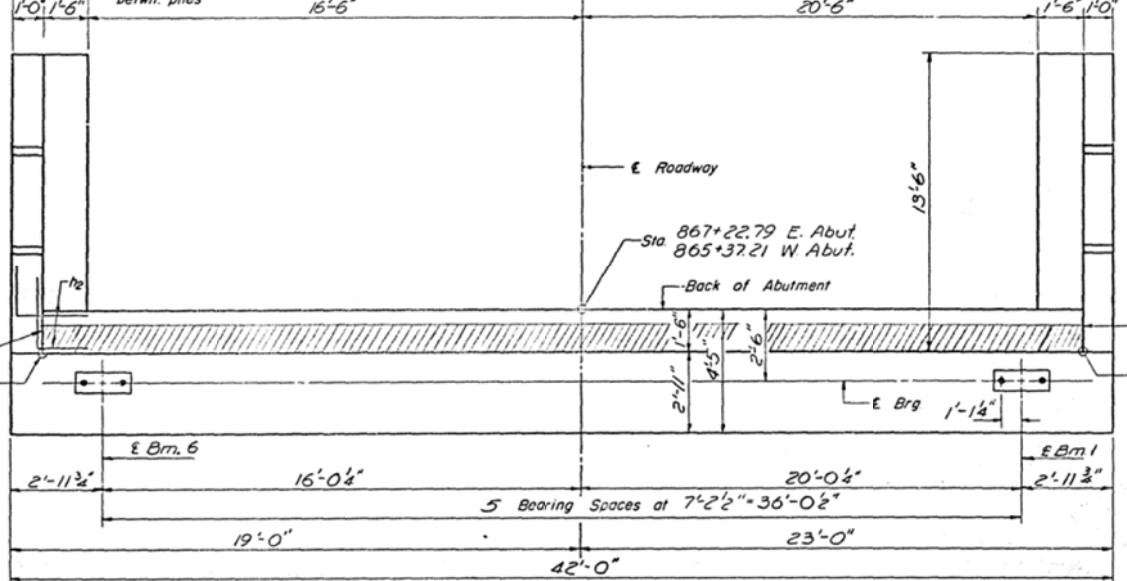
DESIGNED	<i>Stacy S. Lee</i>	EXAMINED	<i>W.E. Brown</i>
CHECKED	<i>A.Y. Khayyat</i>	PASSED	<i>W.E. Brown</i>
DRAWN	<i>Jim Heninger</i>	APPROVED	<i>W.E. Brown</i>
CHECKED	<i>A.Y. Khayyat</i>		

March 6 1968

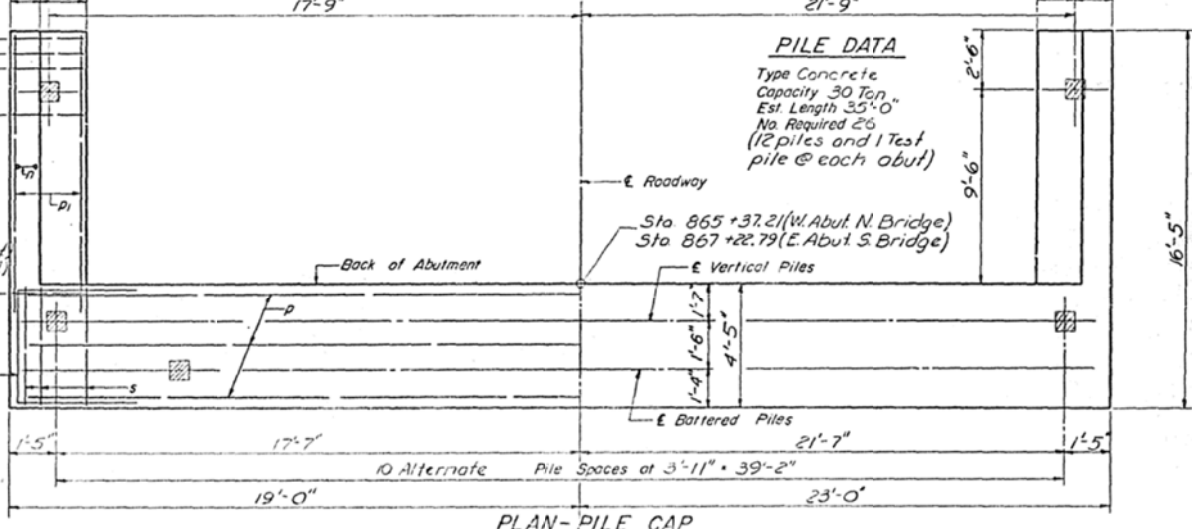
A-9 2-1-66



ELEVATION



TOP VIEW

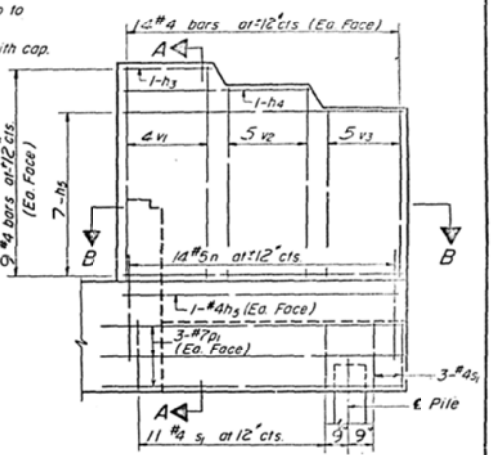


PLAN - PILE CAP

PILE DATA

Type Concrete
Capacity 30 Ton.
Est. Length 35'-0"
No. Required 26
(12 piles and 1 test pile @ each abut.)

Space reinforcement in cap to miss anchor bolts.
Pour steps monolithically with cap.



WING WALL ELEVATION Reinforcement

SEC. B-B

TWO ABUTMENTS

BILL OF MATERIAL

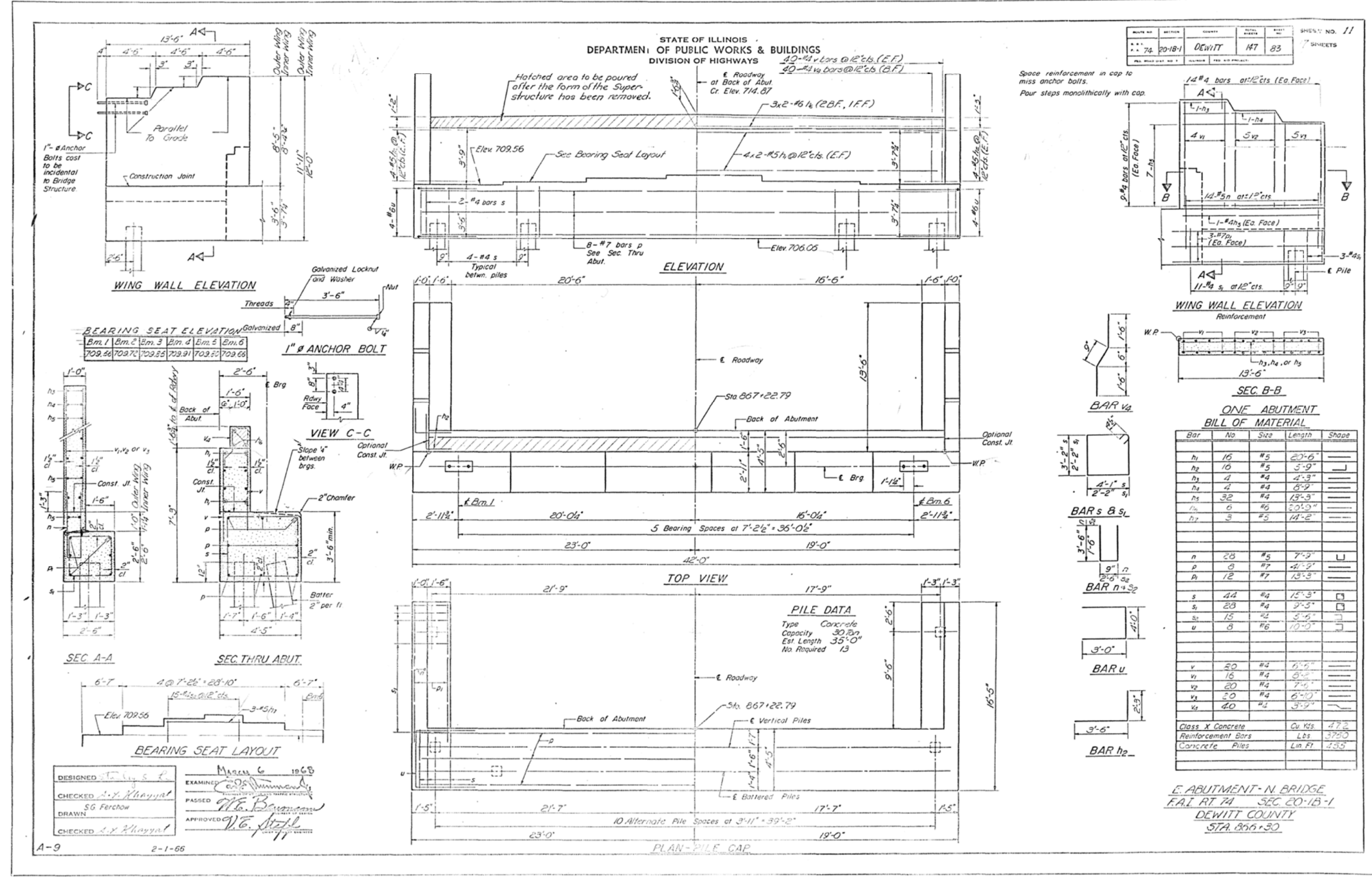
Bar	No.	Size	Length	Shape
h1	32	#5	20'-0"	—
h2	32	#5	5'-9"	—
h3	0	#4	4'-5"	—
h4	0	#4	8'-9"	—
h5	64	#4	13'-3"	—
h6	12	#6	20'-8"	—
h7	6	#5	14'-2"	—
n	56	#5	7'-9"	U
p	16	#7	41'-9"	—
r	24	#7	13'-3"	—
s	88	#4	15'-3"	□
s1	56	#4	9'-5"	□
s2	30	#4	5'-6"	□
u	16	#6	10'-0"	□
v	160	#4	5'-5"	—
v1	32	#4	8'-2"	—
v2	40	#4	7'-8"	—
v3	20	#4	6'-10"	—
y	80	#4	3'-9"	—
Class X Concrete		Cu Yds.	94.5	
Reinforcement Bars		Lbs.	7500	
Concrete Piles		Lin. Ft.	820	
Test Piles (Concrete)		Ea.	2	

EAST ABUT. SOUTH BRIDGE
WEST ABUT. NORTH BRIDGE
F.A.I. RT. 74 SEC. 20-1B-1
DEWITT COUNTY
STA. 866 + 30

*20-1(HVB,HB-1,VB-1,B,B-1)

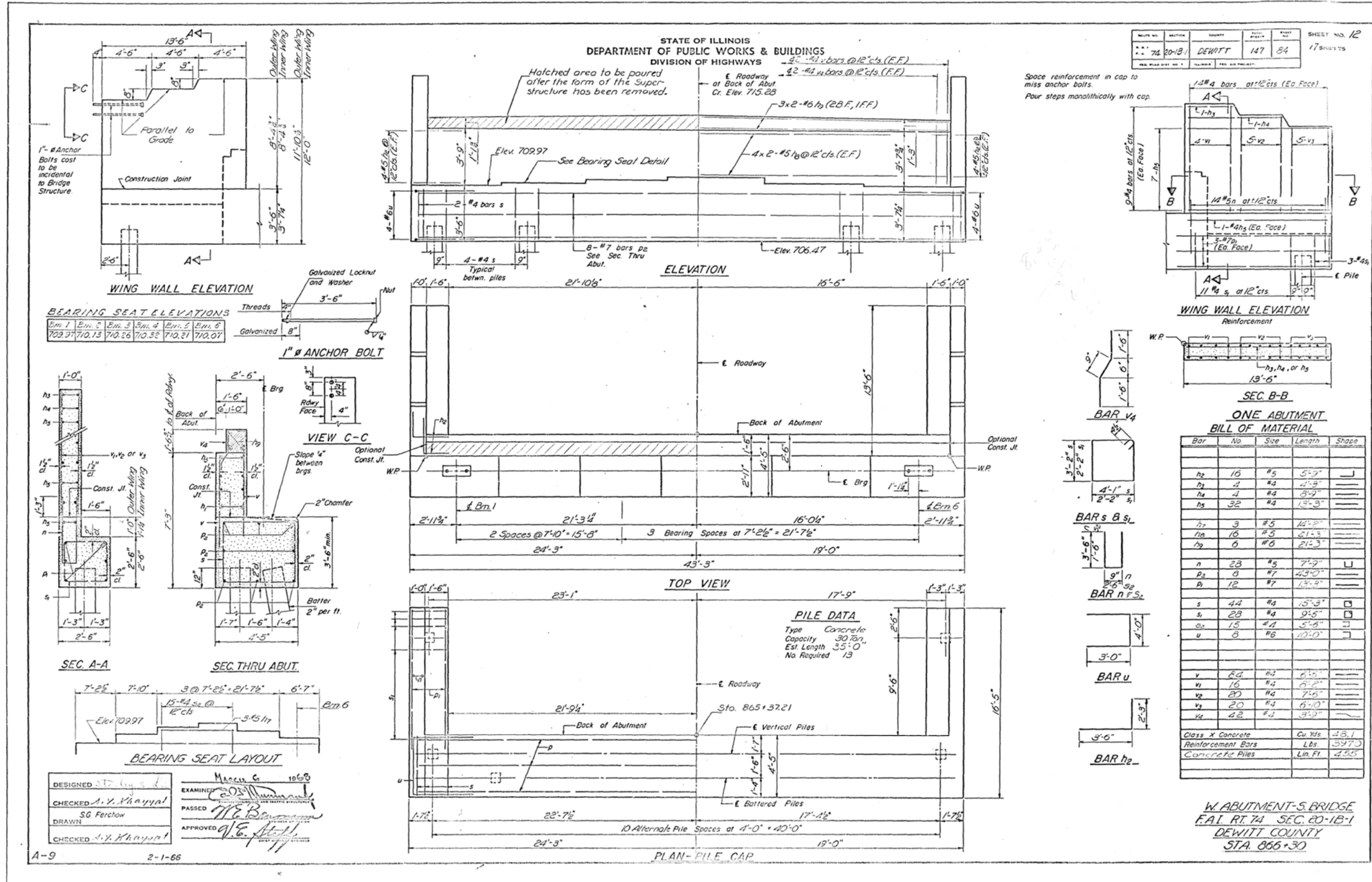
AS-BUILT PLANS (FOR INFORMATION ONLY)

S.N. 020-0036 (EB) & S.N. 020-0037 (WB)



AS-BUILT PLANS (FOR INFORMATION ONLY)

S.N. 020-0036 (EB) & S.N. 020-0037 (WB)



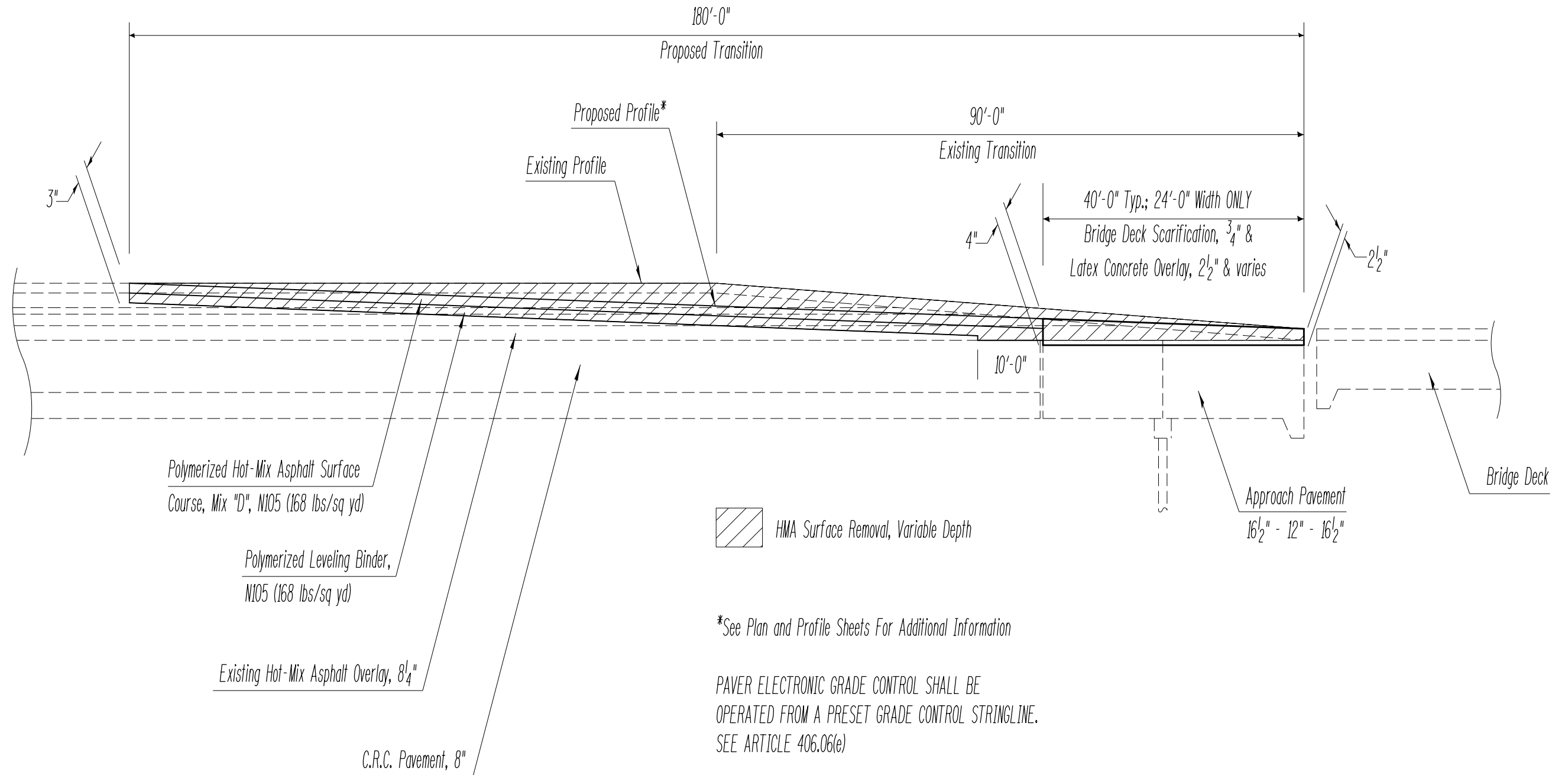
DESIGNED *[Signature]*
CHECKED *A.Y. Khayyat*
DRAWN *SG Ferchow*
CHECKED *A.Y. Khayyat*

EXAMINED *[Signature]*
PASSED *[Signature]*
APPROVED *[Signature]*

DATE 11/29/2011

DETAIL FOR MILLING TRANSITION AT STRUCTURES

SN 020-0026 (EB) & SN 020-0027 (WB)
 SN 020-0028 (EB) & SN 020-0029 (WB)
 SN 020-0030 (EB) & SN 020-0031 (WB)
 SN 020-0032 (EB) & SN 020-0033 (WB)
 SN 020-0036 (EB) & SN 020-0037 (WB)



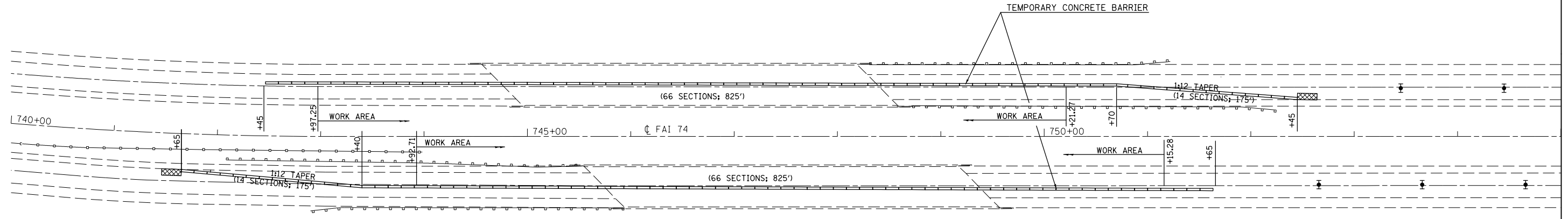
•20-1(HVB,HB-1,VB-1,B,B-1)1

FILE NAME =	USER NAME = brandenburgtj	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETAIL FOR MILLING TRANSITIONS AT STRUCTURES	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
						74	•	DEWITT	166	158	
						CONTRACT NO. 90876					
						ILLINOIS FED. AID PROJECT					
				SCALE:		SHEET OF SHEETS		STA. TO STA.			

TEMPORARY CONCRETE BARRIER LAYOUT-STAGE II

**S.N. 020-0026 (EB) &
S.N. 020-0027 (WB)**

IF WORKING ON CONCURRENT STRUCTURES, TYPE II BARRICADES, DRUMS OR VERTICAL BARRICADES WITH STEADY BURN MONODIRECTIONAL LIGHT AT 100' CENTERS SHALL BE USED PER HIGHWAY STANDARD 701402. COST INCLUDED WITH TRAFFIC CONTROL AND PROTECTION STANDARD 701402.



PLAN NOTES:

ALL STAGING DETAILS SHALL BE IN ACCORDANCE WITH TRAFFIC CONTROL AND PROTECTION STANDARDS 701400 AND 701402 AND PAID FOR AT THE CONTRACT UNIT PRICE PER EACH LOCATION.

ALL WORK WITHOUT TEMPORARY CONCRETE BARRIER IN PLACE SHALL BE IN ACCORDANCE WITH TRAFFIC CONTROL AND PROTECTION STANDARDS 701400 AND 701401.

FOR ADDITIONAL DETAILS ASSOCIATED WITH TEMPORARY CONCRETE BARRIER, SEE TRAFFIC CONTROL AND PROTECTION STANDARD 704001.

VERTICAL PANELS WITH LIGHTS AND REFLECTORS SHALL BE ATTACHED AT 25 FOOT CENTERS TO THE BARRIER WALL AND GUARDRAIL. COST INCLUDED WITH TRAFFIC CONTROL AND PROTECTION STANDARD 701402.

REFLECTORIZED TEMPORARY MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER, AND ALONGSIDE BOTH SIDES OF THE WORK AREA. EXISTING MARKINGS THAT CONFLICT WITH THE STAGED TRAFFIC MARKINGS SHALL BE REMOVED. COST TO REMOVE EXISTING MARKINGS AND FOR THE PLACEMENT AND REMOVAL OF TEMPORARY MARKINGS SHALL BE INCLUDED WITH TRAFFIC CONTROL AND PROTECTION STANDARD 701402.

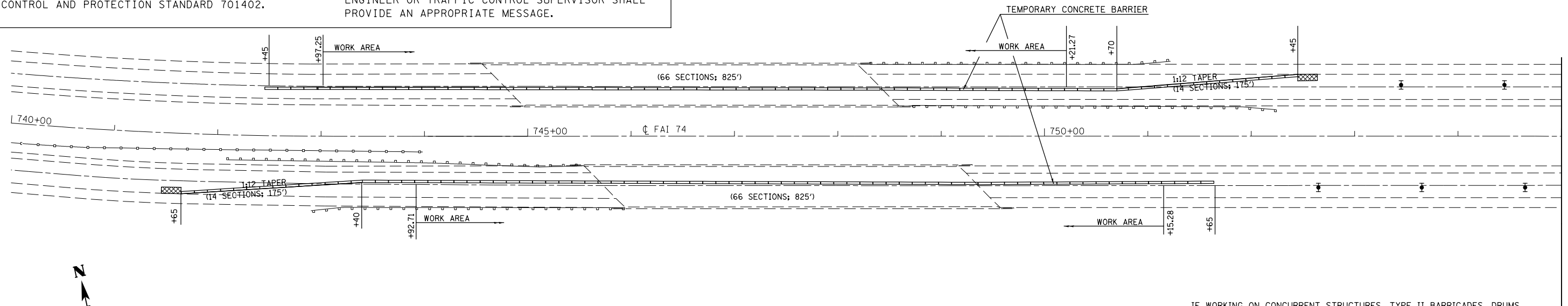
PRIOR TO ROUTING TRAFFIC ONTO THE SHOULDERS, THE CONTRACTOR SHALL SECURE ANY GRATES ON SHOULDER INLETS AS DIRECTED BY THE ENGINEER. THIS WORK SHALL BE PAID FOR ACCORDING TO ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.

PORTABLE CHANGEABLE MESSAGE SIGNS ARE REQUIRED TWO WEEKS PRIOR TO CONSTRUCTION. THE RESIDENT ENGINEER OR TRAFFIC CONTROL SUPERVISOR SHALL PROVIDE AN APPROPRIATE MESSAGE.

TEMPORARY CONCRETE BARRIER LAYOUT-STAGE I

**S.N. 020-0026 (EB) &
S.N. 020-0027 (WB)**

SYMBOLS	
	TEMPORARY CONCRETE BARRIER
	IMPACT ATTENUATOR



IF WORKING ON CONCURRENT STRUCTURES, TYPE II BARRICADES, DRUMS OR VERTICAL BARRICADES WITH STEADY BURN MONODIRECTIONAL LIGHT AT 100' CENTERS SHALL BE USED PER HIGHWAY STANDARD 701402. COST INCLUDED WITH TRAFFIC CONTROL AND PROTECTION STANDARD 701402.

*20-1(HVB,HB-1,VB-1,B,B-1)I

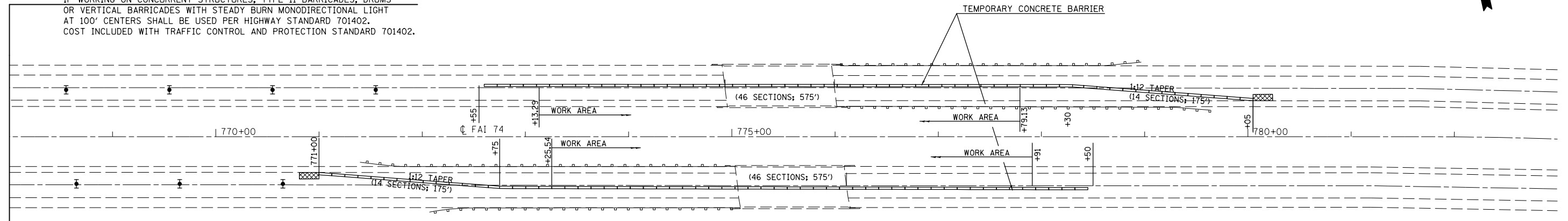
FILE NAME =	USER NAME = brandenburgtj	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY CONCRETE BARRIER LAYOUT S.N. 020-0026 (EB) & S.N. 020-0027 (WB)	F.A.I. RTE. =	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
p:\11\084EBIDINTEG\Illinois.gov\PIWIDOT\Documents\DOT Offices\District 5\Projects\0504\BRAINData\Hydraulics\0590876-Sht Temp\REVISEDer Detail.dgn						74	.	DEWITT	166	159	
PLOT SCALE = 100.0000' / in.						CHECKED -	REVISED - TJB	CONTRACT NO. 90876			
PLOT DATE = 10/13/2015						DATE -	REVISED - 9/17/2015	ILLINOIS FED. AID PROJECT			
SCALE:						SHEET NO. OF SHEETS		STA. TO STA.			

TEMPORARY CONCRETE BARRIER LAYOUT-STAGE II

**S.N. 020-0028 (EB) &
S.N. 020-0029 (WB)**



IF WORKING ON CONCURRENT STRUCTURES, TYPE II BARRICADES, DRUMS OR VERTICAL BARRICADES WITH STEADY BURN MONODIRECTIONAL LIGHT AT 100' CENTERS SHALL BE USED PER HIGHWAY STANDARD 701402. COST INCLUDED WITH TRAFFIC CONTROL AND PROTECTION STANDARD 701402.



PLAN NOTES:

ALL STAGING DETAILS SHALL BE IN ACCORDANCE WITH TRAFFIC CONTROL AND PROTECTION STANDARDS 701400 AND 701402 AND PAID FOR AT THE CONTRACT UNIT PRICE PER EACH LOCATION.

ALL WORK WITHOUT TEMPORARY CONCRETE BARRIER IN PLACE SHALL BE IN ACCORDANCE WITH TRAFFIC CONTROL AND PROTECTION STANDARDS 701400 AND 701401.

FOR ADDITIONAL DETAILS ASSOCIATED WITH TEMPORARY CONCRETE BARRIER, SEE TRAFFIC CONTROL AND PROTECTION STANDARD 704001.

VERTICAL PANELS WITH LIGHTS AND REFLECTORS SHALL BE ATTACHED AT 25 FOOT CENTERS TO THE BARRIER WALL AND GUARDRAIL. COST INCLUDED WITH TRAFFIC CONTROL AND PROTECTION STANDARD 701402.

REFLECTORIZED TEMPORARY MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER, AND ALONGSIDE BOTH SIDES OF THE WORK AREA. EXISTING MARKINGS THAT CONFLICT WITH THE STAGED TRAFFIC MARKINGS SHALL BE REMOVED. COST TO REMOVE EXISTING MARKINGS AND FOR THE PLACEMENT AND REMOVAL OF TEMPORARY MARKINGS SHALL BE INCLUDED WITH TRAFFIC CONTROL AND PROTECTION STANDARD 701402.

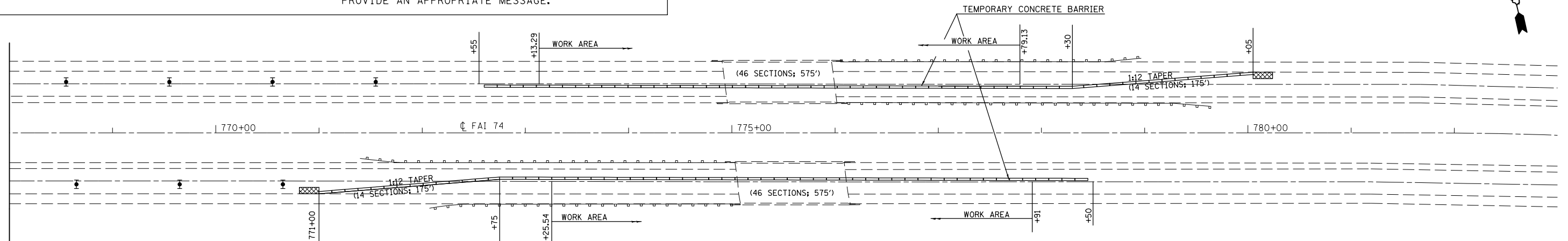
PRIOR TO ROUTING TRAFFIC ONTO THE SHOULDERS, THE CONTRACTOR SHALL SECURE ANY GRATES ON SHOULDER INLETS AS DIRECTED BY THE ENGINEER. THIS WORK SHALL BE PAID FOR ACCORDING TO ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.

PORTABLE CHANGEABLE MESSAGE SIGNS ARE REQUIRED TWO WEEKS PRIOR TO CONSTRUCTION. THE RESIDENT ENGINEER OR TRAFFIC CONTROL SUPERVISOR SHALL PROVIDE AN APPROPRIATE MESSAGE.

TEMPORARY CONCRETE BARRIER LAYOUT-STAGE I

**S.N. 020-0028 (EB) &
S.N. 020-0029 (WB)**

SYMBOLS	
	TEMPORARY CONCRETE BARRIER
	IMPACT ATTENUATOR



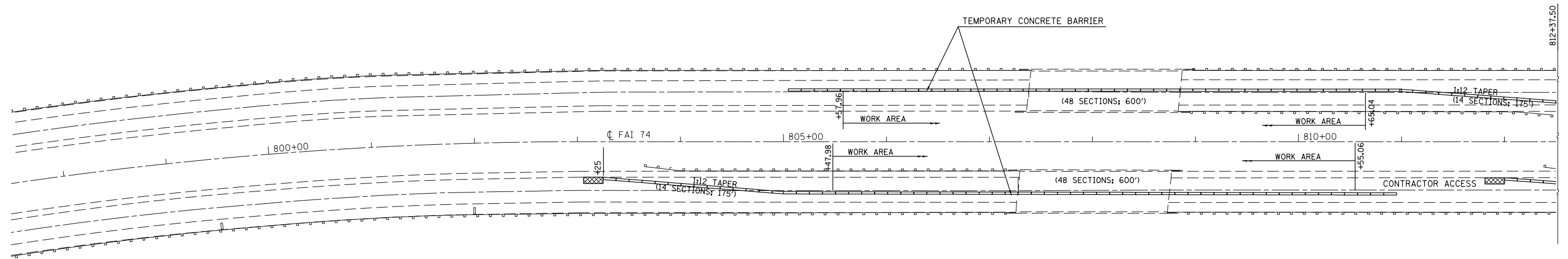
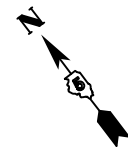
IF WORKING ON CONCURRENT STRUCTURES, TYPE II BARRICADES, DRUMS OR VERTICAL BARRICADES WITH STEADY BURN MONODIRECTIONAL LIGHT AT 100' CENTERS SHALL BE USED PER HIGHWAY STANDARD 701402. COST INCLUDED WITH TRAFFIC CONTROL AND PROTECTION STANDARD 701402.

FILE NAME =	USER NAME = brandenburtj	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY CONCRETE BARRIER LAYOUT S.N. 020-0028 (EB) & S.N. 020-0029 (WB)	F.A.I. RTE. =	SECTION =	COUNTY =	TOTAL SHEETS =	SHEET NO. =
						74	.	DEWITT	166	160
						CONTRACT NO. 90876				
						ILLINOIS FED. AID PROJECT				

*20-1(HVB,HB-1,VB-1,B,B-1)1

TEMPORARY CONCRETE BARRIER LAYOUT-STAGE II

S.N. 020-0030 (EB) &
S.N. 020-0031 (WB)



PLAN NOTES:

ALL STAGING DETAILS SHALL BE IN ACCORDANCE WITH TRAFFIC CONTROL AND PROTECTION STANDARDS 701400 AND 701402 AND PAID FOR AT THE CONTRACT UNIT PRICE PER EACH LOCATION.

ALL WORK WITHOUT TEMPORARY CONCRETE BARRIER IN PLACE SHALL BE IN ACCORDANCE WITH TRAFFIC CONTROL AND PROTECTION STANDARDS 701400 AND 701401.

FOR ADDITIONAL DETAILS ASSOCIATED WITH TEMPORARY CONCRETE BARRIER, SEE TRAFFIC CONTROL AND PROTECTION STANDARD 704001.

VERTICAL PANELS WITH LIGHTS AND REFLECTORS SHALL BE ATTACHED AT 25 FOOT CENTERS TO THE BARRIER WALL AND GUARDRAIL. COST INCLUDED WITH TRAFFIC CONTROL AND PROTECTION STANDARD 701402.

REFLECTORIZED TEMPORARY MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER, AND ALONGSIDE BOTH SIDES OF THE WORK AREA. EXISTING MARKINGS THAT CONFLICT WITH THE STAGED TRAFFIC MARKINGS SHALL BE REMOVED. COST TO REMOVE EXISTING MARKINGS AND FOR THE PLACEMENT AND REMOVAL OF TEMPORARY MARKINGS SHALL BE INCLUDED WITH TRAFFIC CONTROL AND PROTECTION STANDARD 701402.

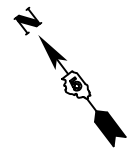
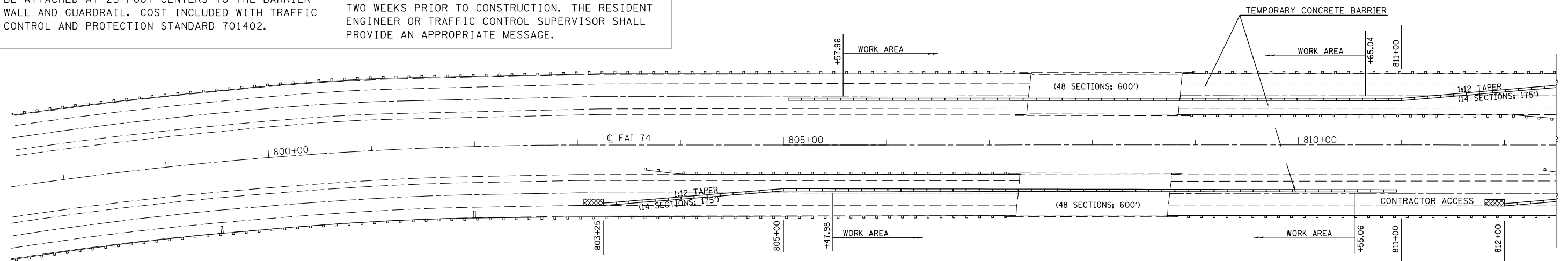
PRIOR TO ROUTING TRAFFIC ONTO THE SHOULDERS, THE CONTRACTOR SHALL SECURE ANY GRATES ON SHOULDER INLETS AS DIRECTED BY THE ENGINEER. THIS WORK SHALL BE PAID FOR ACCORDING TO ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.

PORTABLE CHANGEABLE MESSAGE SIGNS ARE REQUIRED TWO WEEKS PRIOR TO CONSTRUCTION. THE RESIDENT ENGINEER OR TRAFFIC CONTROL SUPERVISOR SHALL PROVIDE AN APPROPRIATE MESSAGE.

TEMPORARY CONCRETE BARRIER LAYOUT-STAGE I

S.N. 020-0030 (EB) &
S.N. 020-0031 (WB)

SYMBOLS	
	TEMPORARY CONCRETE BARRIER
	IMPACT ATTENUATOR

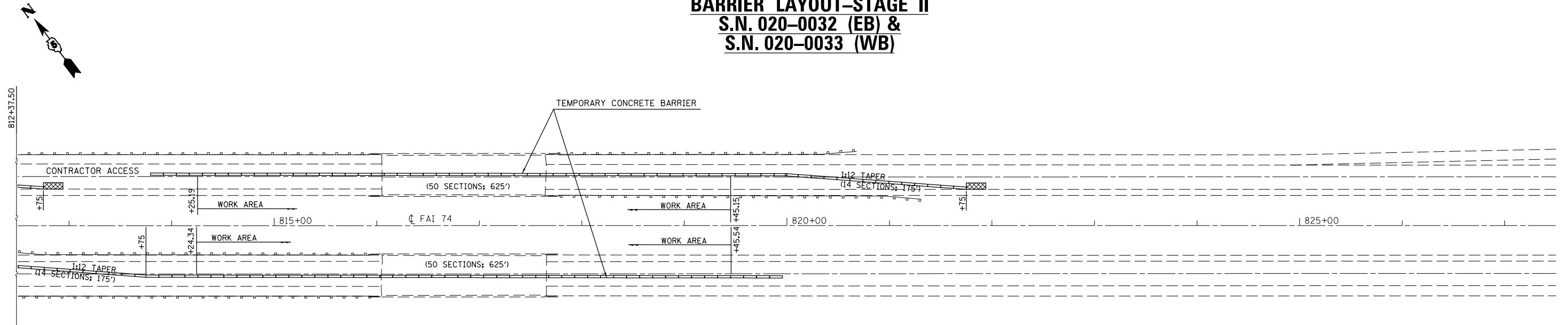


FILE NAME =	USER NAME = brandenburgtj	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY CONCRETE BARRIER LAYOUT S.N. 020-0030 (EB) & S.N. 020-0031 (WB)	F.A.I. RTE. =	SECTION =	COUNTY =	TOTAL SHEETS =	SHEET NO. =
pw:\IL\084EBIDINTEG\illinois.gov\PIWIDOT\Documents\IDOT Offices\District 5\Projects\0504\Drawings\Hydraulics\0590876-Sht Temp\REVISED Detail.dgn						74	.	DEWITT	166	161
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED - TJB	REVISED - 9/17/2015			CONTRACT NO. 90876		ILLINOIS FED. AID PROJECT		
PLOT DATE = 10/13/2015	DATE -			SCALE: SHEET NO. OF SHEETS STA. TO STA.						

*20-1(HVB,HB-1,VB-1,B,B-1)I

TEMPORARY CONCRETE BARRIER LAYOUT-STAGE II

**S.N. 020-0032 (EB) &
S.N. 020-0033 (WB)**



PLAN NOTES:

ALL STAGING DETAILS SHALL BE IN ACCORDANCE WITH TRAFFIC CONTROL AND PROTECTION STANDARDS 701400 AND 701402 AND PAID FOR AT THE CONTRACT UNIT PRICE PER EACH LOCATION.

ALL WORK WITHOUT TEMPORARY CONCRETE BARRIER IN PLACE SHALL BE IN ACCORDANCE WITH TRAFFIC CONTROL AND PROTECTION STANDARDS 701400 AND 701401.

FOR ADDITIONAL DETAILS ASSOCIATED WITH TEMPORARY CONCRETE BARRIER, SEE TRAFFIC CONTROL AND PROTECTION STANDARD 704001.

VERTICAL PANELS WITH LIGHTS AND REFLECTORS SHALL BE ATTACHED AT 25 FOOT CENTERS TO THE BARRIER WALL AND GUARDRAIL. COST INCLUDED WITH TRAFFIC CONTROL AND PROTECTION STANDARD 701402.

REFLECTORIZED TEMPORARY MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER, AND ALONGSIDE BOTH SIDES OF THE WORK AREA. EXISTING MARKINGS THAT CONFLICT WITH THE STAGED TRAFFIC MARKINGS SHALL BE REMOVED. COST TO REMOVE EXISTING MARKINGS AND FOR THE PLACEMENT AND REMOVAL OF TEMPORARY MARKINGS SHALL BE INCLUDED WITH TRAFFIC CONTROL AND PROTECTION STANDARD 701402.

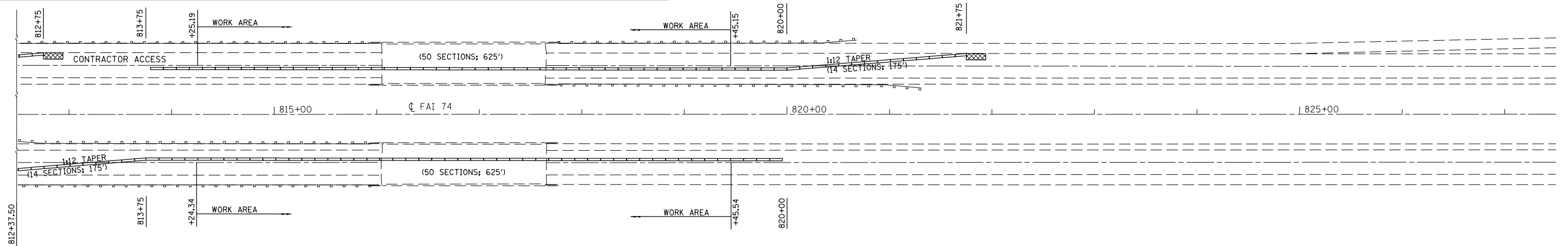
PRIOR TO ROUTING TRAFFIC ONTO THE SHOULDERS, THE CONTRACTOR SHALL SECURE ANY GRATES ON SHOULDER INLETS AS DIRECTED BY THE ENGINEER. THIS WORK SHALL BE PAID FOR ACCORDING TO ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.

PORTABLE CHANGEABLE MESSAGE SIGNS ARE REQUIRED TWO WEEKS PRIOR TO CONSTRUCTION. THE RESIDENT ENGINEER OR TRAFFIC CONTROL SUPERVISOR SHALL PROVIDE AN APPROPRIATE MESSAGE.

TEMPORARY CONCRETE BARRIER LAYOUT-STAGE I

**S.N. 020-0032 (EB) &
S.N. 020-0033 (WB)**

SYMBOLS	
	TEMPORARY CONCRETE BARRIER
	IMPACT ATTENUATOR



FILE NAME =	USER NAME = brandenburgtj	DESIGNED -	REVISED -
pw:\1\084EBID\INTEG\illinois.gov\PIWIDOT\Documents\DOT Offices\District 5\Projects\0504\Drawings\Hydraulics\0590876-Sht Temp\REVISED Detail.dgn		CHECKED -	REVISED - TJB
		DATE -	REVISED - 9/17/2015

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY CONCRETE BARRIER LAYOUT
S.N. 020-0032 (EB) & S.N. 020-0033 (WB)**

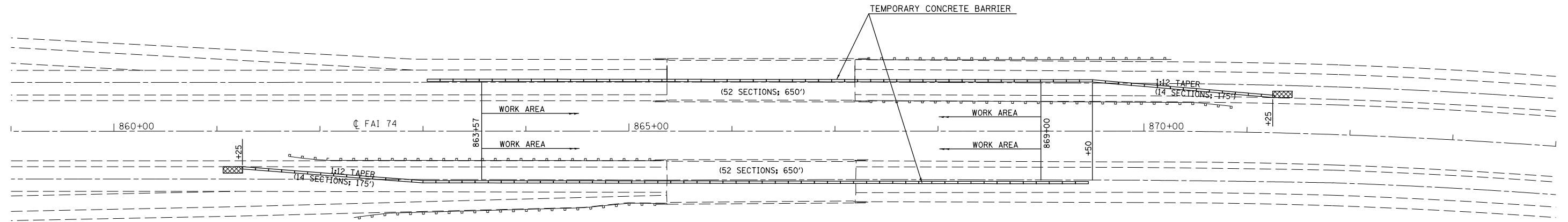
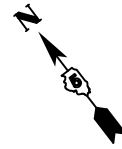
SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	•	DEWITT	166	162
CONTRACT NO. 90876				
ILLINOIS FED. AID PROJECT				

*20-1(HVB,HB-1,VB-1,B,B-1)I

TEMPORARY CONCRETE BARRIER LAYOUT-STAGE II

**S.N. 020-0036 (EB) &
S.N. 020-0037 (WB)**



PLAN NOTES:

ALL STAGING DETAILS SHALL BE IN ACCORDANCE WITH TRAFFIC CONTROL AND PROTECTION STANDARDS 701400 AND 701402 AND PAID FOR AT THE CONTRACT UNIT PRICE PER EACH LOCATION.

ALL WORK WITHOUT TEMPORARY CONCRETE BARRIER IN PLACE SHALL BE IN ACCORDANCE WITH TRAFFIC CONTROL AND PROTECTION STANDARDS 701400 AND 701401.

FOR ADDITIONAL DETAILS ASSOCIATED WITH TEMPORARY CONCRETE BARRIER, SEE TRAFFIC CONTROL AND PROTECTION STANDARD 704001.

VERTICAL PANELS WITH LIGHTS AND REFLECTORS SHALL BE ATTACHED AT 25 FOOT CENTERS TO THE BARRIER WALL AND GUARDRAIL. COST INCLUDED WITH TRAFFIC CONTROL AND PROTECTION STANDARD 701402.

REFLECTORIZED TEMPORARY MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER, AND ALONGSIDE BOTH SIDES OF THE WORK AREA. EXISTING MARKINGS THAT CONFLICT WITH THE STAGED TRAFFIC MARKINGS SHALL BE REMOVED. COST TO REMOVE EXISTING MARKINGS AND FOR THE PLACEMENT AND REMOVAL OF TEMPORARY MARKINGS SHALL BE INCLUDED WITH TRAFFIC CONTROL AND PROTECTION STANDARD 701402.

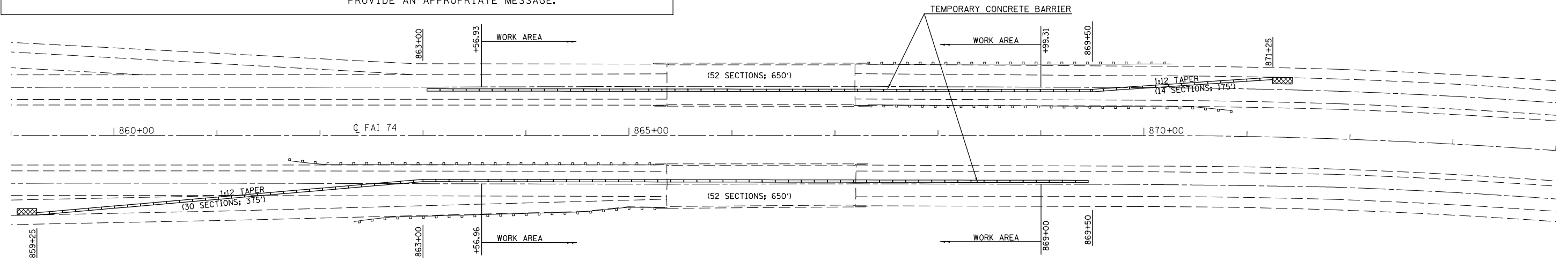
PRIOR TO ROUTING TRAFFIC ONTO THE SHOULDERS, THE CONTRACTOR SHALL SECURE ANY GRATES ON SHOULDER INLETS AS DIRECTED BY THE ENGINEER. THIS WORK SHALL BE PAID FOR ACCORDING TO ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.

PORTABLE CHANGEABLE MESSAGE SIGNS ARE REQUIRED TWO WEEKS PRIOR TO CONSTRUCTION. THE RESIDENT ENGINEER OR TRAFFIC CONTROL SUPERVISOR SHALL PROVIDE AN APPROPRIATE MESSAGE.

TEMPORARY CONCRETE BARRIER LAYOUT-STAGE I

**S.N. 020-0036 (EB) &
S.N. 020-0037 (WB)**

SYMBOLS	
	TEMPORARY CONCRETE BARRIER
	IMPACT ATTENUATOR



FILE NAME =	USER NAME = brandenburgtj	DESIGNED -	REVISED -
pw:\1\084EBID\INTEG\illinois.gov\PIWID\Documents\DOT Offices\District 5\Projects\0504\Drawings\Hydraulics\0590876-Sht Temp\REVISED.dgn			
PLOT SCALE = 100.0000' / 1in.	CHECKED -	REVISOR - TJB	
PLOT DATE = 10/13/2015	DATE -	REVISED - 9/17/2015	

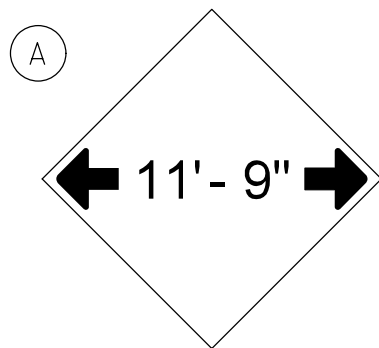
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY CONCRETE BARRIER LAYOUT
S.N. 020-0036 (EB) & S.N. 020-0037 (WB)**

SCALE: SHEET NO. OF SHEETS STA. TO STA.

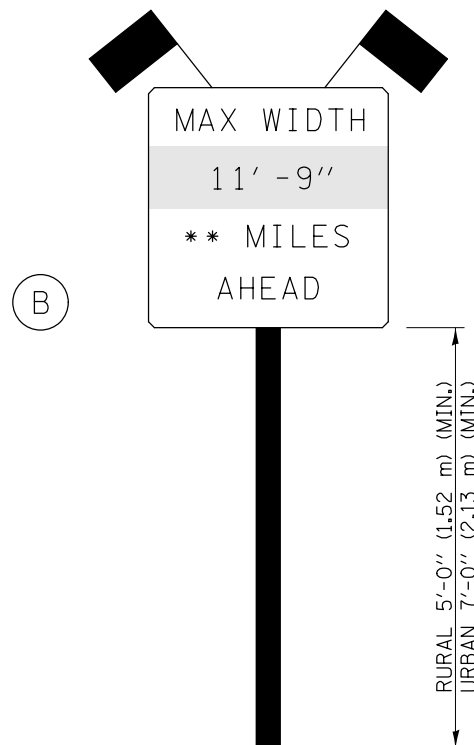
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	•	DEWITT	166	163
CONTRACT NO. 90876				
ILLINOIS FED. AID PROJECT				

*20-1(HVB,HB-1,VB-1,B,B-1)1

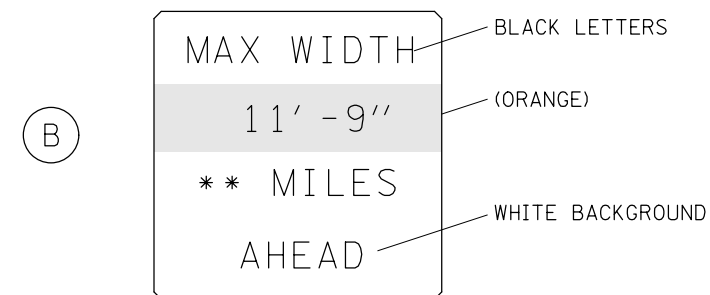


W12-2(0)-48"x48"(1200x1200)

SIGN (A) 2 SIGNS - W12-2(0)-48"x48"(1200x1200) ARE TO BE PLACED AS SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER.



SIGN PANEL, TYPE II



W12-I103(0)-48"x48"(1200x1200)
"D" LETTERS/NUMBERS

SIGN (B) 2 SIGNS - (SIGN PANEL, TYPE II) AS SHOWN ARE TO BE PLACED AS SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER.

** SEE DETAILS AND DESCRIPTIONS ON NEXT 2 SHEETS

STAGE WIDTHS:

STAGE 1 WIDTH = 13' -3" actual; 11' -9" posted; REQUIRED

STAGE 2 WIDTH = 18' -3" actual; POSTING NOT REQUIRED

GENERAL NOTES

1. ALL TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, ERECTED AND MAINTAINED BY THE CONTRACTOR.
2. ALL (B) SIGNS SHALL HAVE FLAGS INSTALLED UNLESS OTHERWISE DIRECTED.
3. LOCATIONS OF TRAFFIC CONTROL DEVICES MAY BE ADJUSTED BY THE ENGINEER.
4. ALL TRAFFIC CONTROL SHOWN ON THIS SHEET SHALL BE PAID FOR AT THE CONTRACT LUMP SUM PRICE FOR WIDTH RESTRICTION SIGNING.
5. ALL SIGNS SHALL BE POST MOUNTED UNLESS OTHERWISE DIRECTED.
6. ALL SIGNS SHOWN ORANGE (O) SHALL BE FLUORESCENT ORANGE.
7. ALL SIGNS SHOWN SHALL CONSIST OF THE CURRENT RETROREFLECTIVE SHEETING REQUIREMENTS AS OUTLINED IN SECTION 1106.01 OF THE STANDARD SPECIFICATIONS.



•20-1(HVB,HB-1,VB-1,B,B-1)I

FILE NAME =	USER NAME = brandenburgj	DESIGNED - TJB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	WIDTH RESTRICTION SIGNING			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\IL\084EBIDINTEG.illinois.gov\PWIDOT\Documents\DOT Offices\District 5\Projects\0504\DRAWING\Hydra\TJB\0590876-Sht Temp\REVISED Detail.dgn	PLOT SCALE = 100.0006' / in.	CHECKED -	REVISED -					74	•	DEWITT	166	164
MODELNAME	PLOT DATE = 10/13/2015	DATE - 02/03/2014	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.			CONTRACT NO. 90876				
							ILLINOIS FED. AID PROJECT					

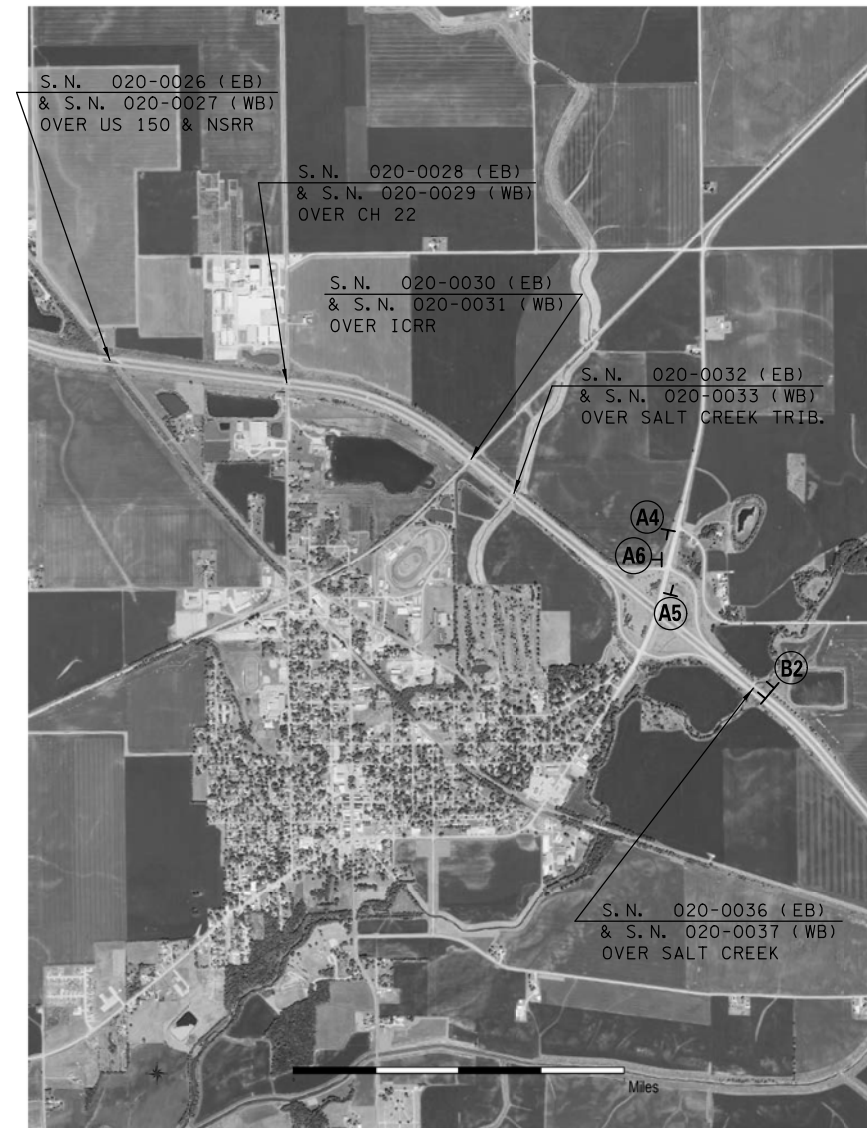
WIDTH RESTRICTION SIGNING FOR STRUCTURE REPAIRS WEST OF FARMER CITY INTERCHANGE

FAI 74 / US 136 INTERCHANGE

- B1** NORTHWEST OF FAI74/US136 INTERCHANGE
ERECT 1/2 MILE PRIOR TO EXIT RAMP
DUAL DISPLAY; 5 MILES AHEAD 5 MILE
- A1** WEST OF FAI74/US136 INTERCHANGE ON US 136
ERECT 150FT PRIOR TO EB ON RAMP BY GREENBOARD
INCLUDE RIGHT ARROW SIGN BELOW WIDTH SIGN →
- A2** WEST OF FAI74/US136 INTERCHANGE ON US 136
ERECT 100FT PRIOR TO EB ON RAMP
INCLUDE LEFT ARROW SIGN BELOW WIDTH SIGN ←
- A3** AT FAI74/US 136 INTERCHANGE EB ON RAMP
ERECT BESIDE "USE PROHIBITED SIGN"
INCLUDE 5 MILES AHEAD SIGN BELOW WIDTH SIGN 5 MILE

FARMER CITY INTERCHANGE

- B2** SOUTHEAST OF FARMER CITY INTERCHANGE
ERECT 1/2 MILE PRIOR TO EXIT RAMP
DUAL DISPLAY; 1 MILES AHEAD 1 MILE
- A4** NORTH OF FARMER CITY INTERCHANGE ON IL54
ERECT 200FT PRIOR TO WB ON RAMP
INCLUDE RIGHT ARROW SIGN BELOW WIDTH SIGN →
- A5** SOUTH OF FARMER CITY INTERCHANGE ON IL54
ERECT 150FT PRIOR TO WB ON RAMP BY 45MPH SIGN
INCLUDE LEFT ARROW SIGN BELOW WIDTH SIGN ←
- A6** AT FARMER CITY INTERCHANGE WB ON RAMP
ERECT ACROSS FROM "USE PROHIBITED SIGN"
INCLUDE 1/2 MILES AHEAD SIGN BELOW WIDTH SIGN 1/2 MILE



*20-1(HVB,HB-1,VB-1,B,B-1)I

FILE NAME =	USER NAME = brandenburgtj	DESIGNED - TJB	REVISED -
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MODELNAME	PLOT SCALE = 100.0006' / in.	CHECKED -	REVISED -
	PLOT DATE = 10/13/2015	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WIDTH RESTRICTION SIGNING

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	.	DEWITT	166	165
CONTRACT NO. 90876				
ILLINOIS FED. AID PROJECT				

WIDTH RESTRICTION SIGNING FOR STRUCTURE REPAIRS EAST OF FARMER CITY INTERCHANGE

FARMER CITY INTERCHANGE

- B3** NORTHWEST OF FARMER CITY INTERCHANGE
ERECT 1/2 MILE PRIOR TO EXIT RAMP
DUAL DISPLAY; 1 MILES AHEAD 1 MILE
- A7** SOUTH OF FARMER CITY INTERCHANGE ON IL54
ERECT 150FT PRIOR TO EB ON RAMP BY 45 MPH SIGN ←
INCLUDE LEFT ARROW SIGN BELOW WIDTH SIGN
- A8** SOUTH OF FARMER CITY INTERCHANGE ON IL54
ERECT 200FT PRIOR TO EB ON RAMP →
INCLUDE RIGHT ARROW SIGN BELOW WIDTH SIGN
- A9** AT FARMER CITY INTERCHANGE EB ON RAMP
ERECT ACROSS FROM "USE PROHIBITED SIGN"
INCLUDE 1/2 MILE AHEAD SIGN BELOW WIDTH SIGN 1/2 MILE

MANSFIELD INTERCHANGE

- B4** SOUTHEAST OF MANSFIELD INTERCHANGE
ERECT 1/2 MILE PRIOR TO EXIT RAMP
DUAL DISPLAY; 5 MILES AHEAD 5 MILE
- A10** NORTH OF MANSFIELD INTERCHANGE ON CH2
ERECT 150FT PRIOR TO WB ON RAMP ←
INCLUDE LEFT ARROW SIGN BELOW WIDTH SIGN
- A11** NORTH OF MANSFIELD INTERCHANGE ON CH2
ERECT 200FT PRIOR TO WB ON RAMP →
INCLUDE RIGHT ARROW SIGN BELOW WIDTH SIGN
- A12** AT MANSFIELD INTERCHANGE WB ON RAMP
ERECT ACROSS FROM "USE PROHIBITED SIGN"
INCLUDE 5 MILE AHEAD SIGN BELOW WIDTH SIGN 5 MILE

FAI 74 / IL 47 INTERCHANGE

- B5** SOUTHEAST OF FAI74/IL47 INTERCHANGE
ERECT 1/2 MILE PRIOR TO EXIT RAMP
DUAL DISPLAY; 13 MILES AHEAD 13 MILE
- A13** NORTH OF FAI74/IL47 INTERCHANGE ON IL47
ERECT 150FT PRIOR TO WB ON RAMP BY 45MPH SIGN ←
INCLUDE LEFT ARROW SIGN BELOW WIDTH SIGN
- A14** NORTH OF FAI74/IL47 INTERCHANGE ON IL47
ERECT 200FT PRIOR TO WB ON RAMP →
INCLUDE RIGHT ARROW SIGN BELOW WIDTH SIGN
- A15** AT FAI74/IL47 INTERCHANGE WB ON RAMP
ERECT ACROSS FROM "USE PROHIBITED SIGN"
INCLUDE 13 MILES AHEAD SIGN BELOW WIDTH SIGN 13 MILE



*20-1(HVB,HB-1,VB-1,B,B-1)I

FILE NAME =	USER NAME = brandenburgtj	DESIGNED - TJB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	WIDTH RESTRICTION SIGNING				F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
p:\IL\084EBIDINTEG\Illinois.gov\PWIDOT\Documents\IDOT Offices\District 5\Projects\0504\BROWData\Hydra\01-13-2014-Sht Temp\REVISED Detail.dgn													
PLOT SCALE = 100.0006' / in.					CHECKED -	REVISED -						166	166
DATE - 10/13/2015				DATE -	REVISED -	SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.	ILLINOIS FED. AID PROJECT CONTRACT NO. 90876