

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72,745	(75-3,123)BC (75,86)BJR-2,BC	PIKE	30	1
		ILLINOIS	CONTRACT NO. 72M42	

FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROPOSED BRIDGE PRESERVATION

FAI 72, FAP 745 (I-72, IL 104)
SECTION (75-3,123)BC (75,86)BJR-2, BC
PROJECT NHPP-STP-D59G(408)
BRIDGE PRESERVATION
PIKE COUNTY

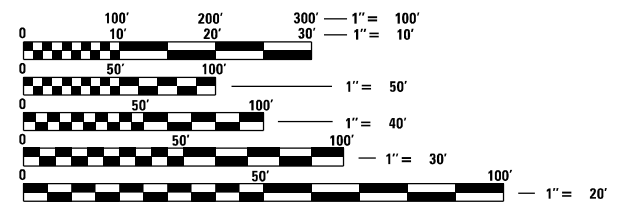
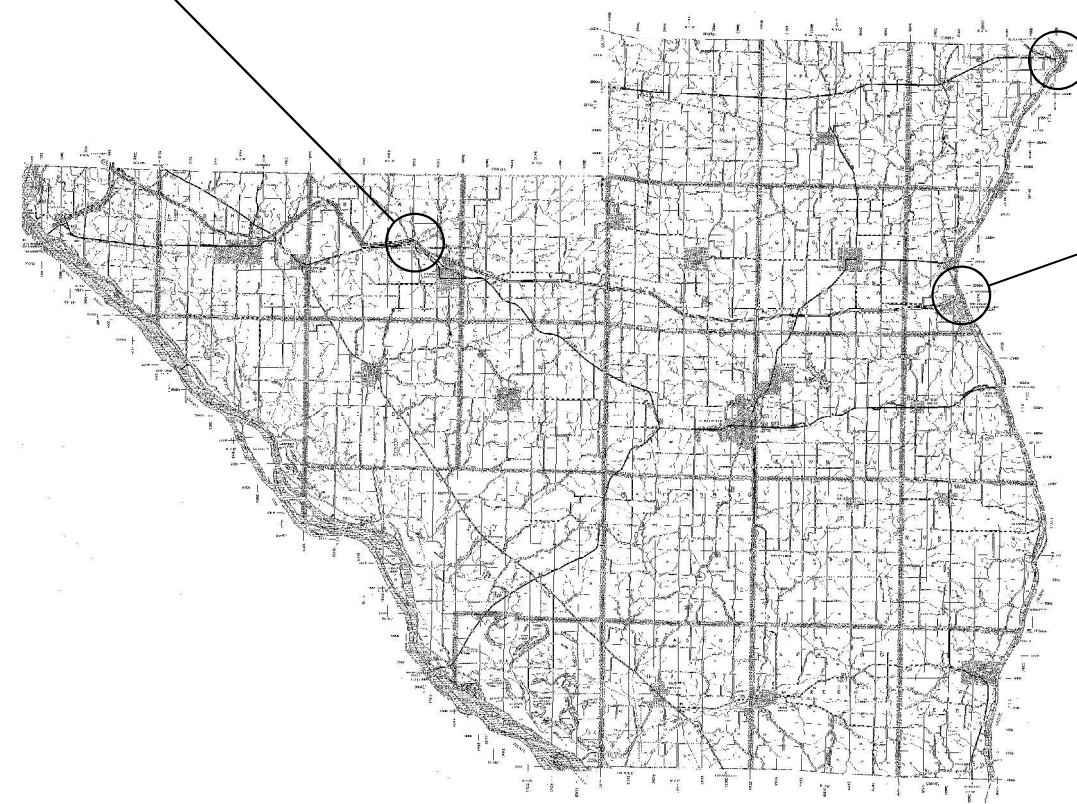
C-96-143-20



LOCATIONS #2 & #3
SN 075-0098 & 0099
I-72 OVER NSRR & HADLEY CR.
1.5 MI W BARRY

LOCATION #1
SN 069-0525
IL 104 OVER IL RIVER
W EDGE OF MEREDOSIA

LOCATIONS #4 & #5
SN 075-0122 & 0123
I-72 OVER IL RIVER
3.7 MI W IL 100



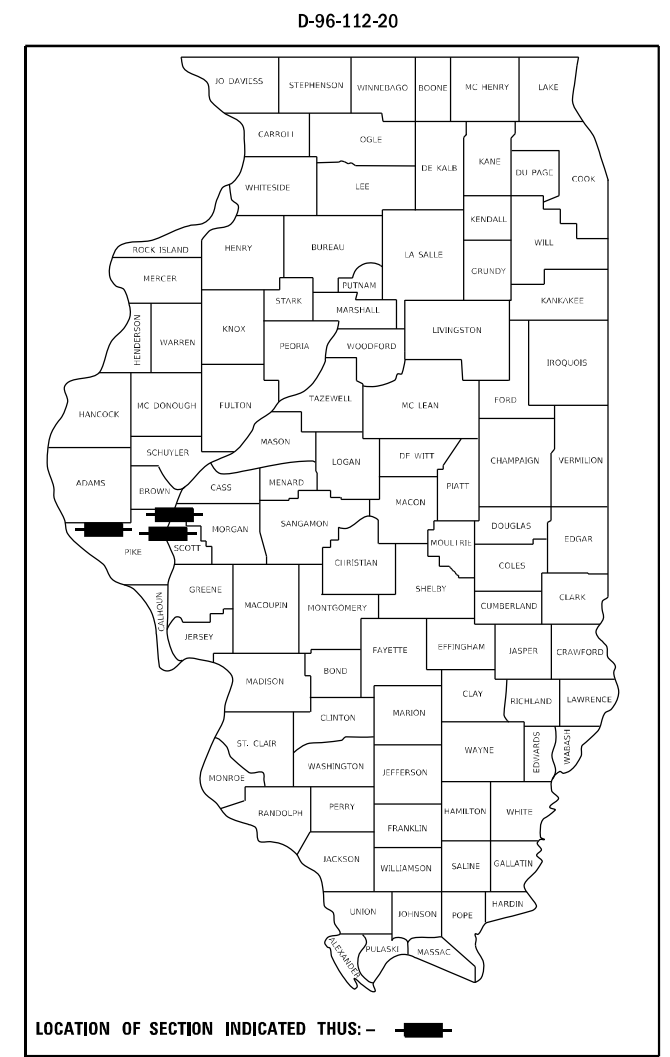
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

BRIDGE MAINTENANCE ENGINEER: BRANDON DUDLEY – (217) 785-9290

GROSS LENGTH = X.XX MILE

CONTRACT NO. 72M42



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED October 6 2020

Anthony P. Meyer
REGIONAL ENGINEER

December 4, 2020

Scott A. Elk
ENGINEER OF DESIGN AND ENVIRONMENT

December 4, 2020

James J. [Signature]
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION 13

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

INDEX OF SHEETS

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STANDARDS

000001-07
001001-02
001006
701001-02
701006-05
701101-05
701106-02
701201-05
701400-09
701402-12
701406-12
701901-08
704001-08
780001-05
782006-01

GENERAL NOTES:

BRIDGE #1 - SN 069-0525: IL 104 OVER THE ILLINOIS RIVER AT THE WEST EDGE OF MEREDOSIA. SEE TIED ARCH AND MULTI BEAM OR APPROACH SPAN NOTES BELOW.

BRIDGE #2 - SN 075-0098: I-72 (EB) OVER TR92, TR149, NSRR, & HADLEY CREEK, 1.5 MILES WEST OF BARRY. SEE MULTI BEAM OR APPROACH SPAN NOTES BELOW.

BRIDGE #3 - SN 075-0099: I-72 (WB) OVER TR92, TR149, NSRR, & HADLEY CREEK, 1.5 MILES WEST OF BARRY. SEE MULTI BEAM OR APPROACH SPAN NOTES BELOW.

BRIDGE #4 - SN 075-0122: I-72 (EB) OVER THE ILLINOIS RIVER NEAR VALLEY CITY IN PIKE COUNTY. SEE POST-TENSIONED CONCRETE SEGMENTAL SPAN NOTES BELOW.

BRIDGE #5 - SN 075-0123: I-72 (WB) OVER THE ILLINOIS RIVER NEAR VALLEY CITY IN PIKE COUNTY. SEE POST-TENSIONED CONCRETE SEGMENTAL SPAN NOTES BELOW.

ALL BRIDGE WASHING SHALL BE PERFORMED IN ACCORDANCE WITH ARTICLE 592 OF THE STANDARD SPECS AND AS OUTLINED BELOW:

MULTI BEAM OR APPROACH SPANS - THE AREAS TO BE WASHED ON MULTI BEAM SPANS OR APPROACH SPANS SHALL INCLUDE THE FOLLOWING:

- ALL DECK JOINTS AND DECK DRAINS
- THE ENTIRE DECK SURFACE, CURBS, RAILINGS, AND SIDEWALKS
- THE OUTSIDE AND BOTTOMS OF FASCIA BEAMS
- ALL ABUTMENT AND PIER CAPS
- ALL STRUCTURAL STEEL LOCATED BELOW THE DECK WITHIN 10' LONGITUDINALLY ON EITHER SIDE OF ALL EXPANSION JOINTS OR DEFLECTION JOINTS


POST-TENSIONED CONCRETE SEGMENTAL SPANS - THE AREAS TO BE WASHED ON POST-TENSIONED CONCRETE SEGMENTAL SPANS SHALL INCLUDE THE FOLLOWING:


- ALL DECK JOINTS AND DECK DRAINS
- THE ENTIRE DECK SURFACE, CURB, AND RAILINGS

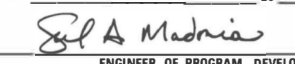
TIED ARCH SPANS - THE AREAS TO BE WASHED ON TIED ARCH SPANS SHALL INCLUDE THE FOLLOWING:

- ALL ARCH STRUCTURAL STEEL INCLUDING ARCH RIB, ARCH TIE AND ARCH HANGERS TO A POINT 10' ABOVE THE BRIDGE DECK
- THE ENTIRE DECK SURFACE, CURBS, JOINTS, DRAINS, AND RAILINGS
- ALL FLOOR BEAMS, DIAGONAL BRACING, STRINGERS, AND OTHER STRUCTURAL STEEL FROM THE LOWER CHORD INWARD TO AND INCLUDING THE OUTSIDE AND BOTTOM OF EXTERIOR STRINGERS
- ALL ABUTMENT AND PIER CAPS
- ALL STRUCTURAL STEEL LOCATED BELOW THE DECK WITHIN 10' LONGITUDINALLY ON EITHER SIDE OF ALL EXPANSION JOINTS OR DEFLECTION JOINTS

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
DISTRICT 6**

EXAMINED September 18 2020

 ENGINEER OF OPERATIONS

EXAMINED October 1 2020

 ENGINEER OF PROJECT IMPLEMENTATION

EXAMINED October 2 2020

 ENGINEER OF PROGRAM DEVELOPMENT

REV. - MS

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	PLOT DATE = 10/6/2020	DATE - _____	REVISED - _____							ILLINOIS FED. AID PROJECT

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0-01291-6004	0-01291-6004	0-01291-6004	0-01291-6004	0-01291-6004
				SN 069-0525	SN 075-0098	SN 075-0099	SN 075-0122	SN 075-0123
				STP 80/20	NHPP 90/10	NHPP 90/10	NHPP 90/10	NHPP 90/10
				BRIDGE/RURAL	BRIDGE/RURAL	BRIDGE/RURAL	BRIDGE/RURAL	BRIDGE/RURAL
				0047	0047	0047	0047	0047
				PIKE	PIKE	PIKE	PIKE	PIKE
50102400	CONCRETE REMOVAL	CU YD	3.4	0	0	0	1.4	2.0
50300255	CONCRETE SUPERSTRUCTURE	CU YD	3.4	0	0	0	1.4	2.0
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	500	0	0	0	260	240
50800515	BAR SPLICERS	EACH	16	0	0	0	8	8
52000110	PREFORMED JOINT STRIP SEAL	FOOT	84	0	0	0	42	42
58700300	CONCRETE SEALER	SQ FT	10025	6505	1640	1640	120	120
59200101	BRIDGE WASHING NO. 1	EACH	1	1	0	0	0	0
59200102	BRIDGE WASHING NO. 2	EACH	1	0	1	0	0	0
59200103	BRIDGE WASHING NO. 3	EACH	1	0	0	1	0	0
59200104	BRIDGE WASHING NO. 4	EACH	1	0	0	0	1	0
59200105	BRIDGE WASHING NO. 5	EACH	1	0	0	0	0	1
67100100	MOBILIZATION	L SUM	1	0.2	0.2	0.2	0.2	0.2
70100207	TRAFFIC CONTROL AND PROTECTION , STANDARD 701402	EACH	2	0	0	0	1	1
70100450	TRAFFIC CONTROL AND PROTECTION , STANDARD 701201	L SUM	1	1	0	0	0	0

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REV. - MS

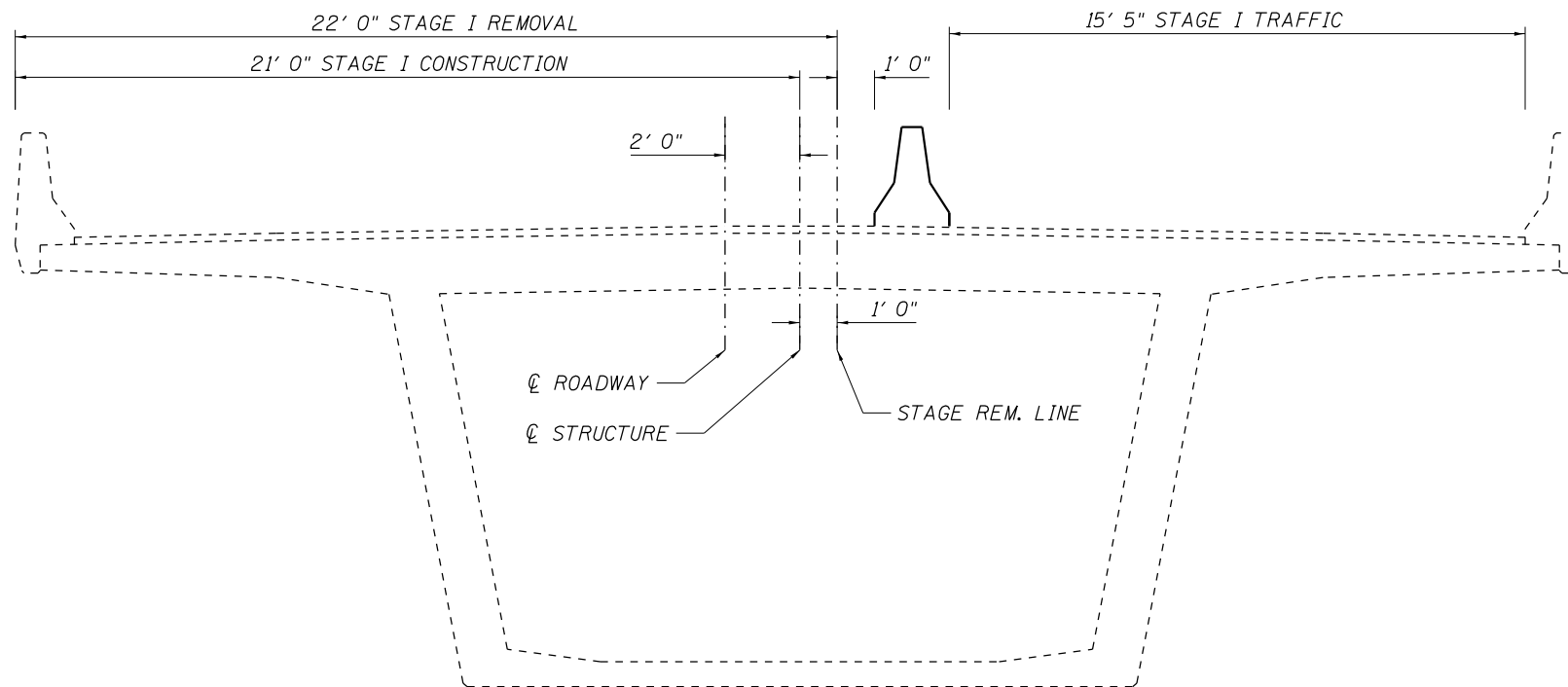
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							ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0-01291-6004	0-01291-6004	0-01291-6004	0-01291-6004	0-01291-6004
				SN 069-0525	SN 075-0098	SN 075-0099	SN 075-0122	SN 075-0123
				STP 80/20	NHPP 90/10	NHPP 90/10	NHPP 90/10	NHPP 90/10
				BRIDGE/RURAL	BRIDGE/RURAL	BRIDGE/RURAL	BRIDGE/RURAL	BRIDGE/RURAL
				0047	0047	0047	0047	0047
				PIKE	PIKE	PIKE	PIKE	PIKE
70100700	TRAFFIC CONTROL AND PROTECTION , STANDARD 701406	L SUM	1	0	0.25	0.25	0.25	0.25
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	70	14	14	14	14	14
70400100	TEMPORARY CONCRETE BARRIER	FOOT	650	0	0	0	325	325
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	650	0	0	0	325	325
70600250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2	0	0	0	1	1
70600350	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2	0	0	0	1	1
* 78009005	MODIFIED URETHANE PAVEMENT MARKING - LINE 5"	FOOT	2000	0	0	0	1000	1000
X0327979	PAVEMENT MARKING REMOVAL - GRINDING	FOOT	820	0	0	0	410	410
X1200030	FILLING INLETS, TEMPORARY	EACH	2	0	0	0	2	0

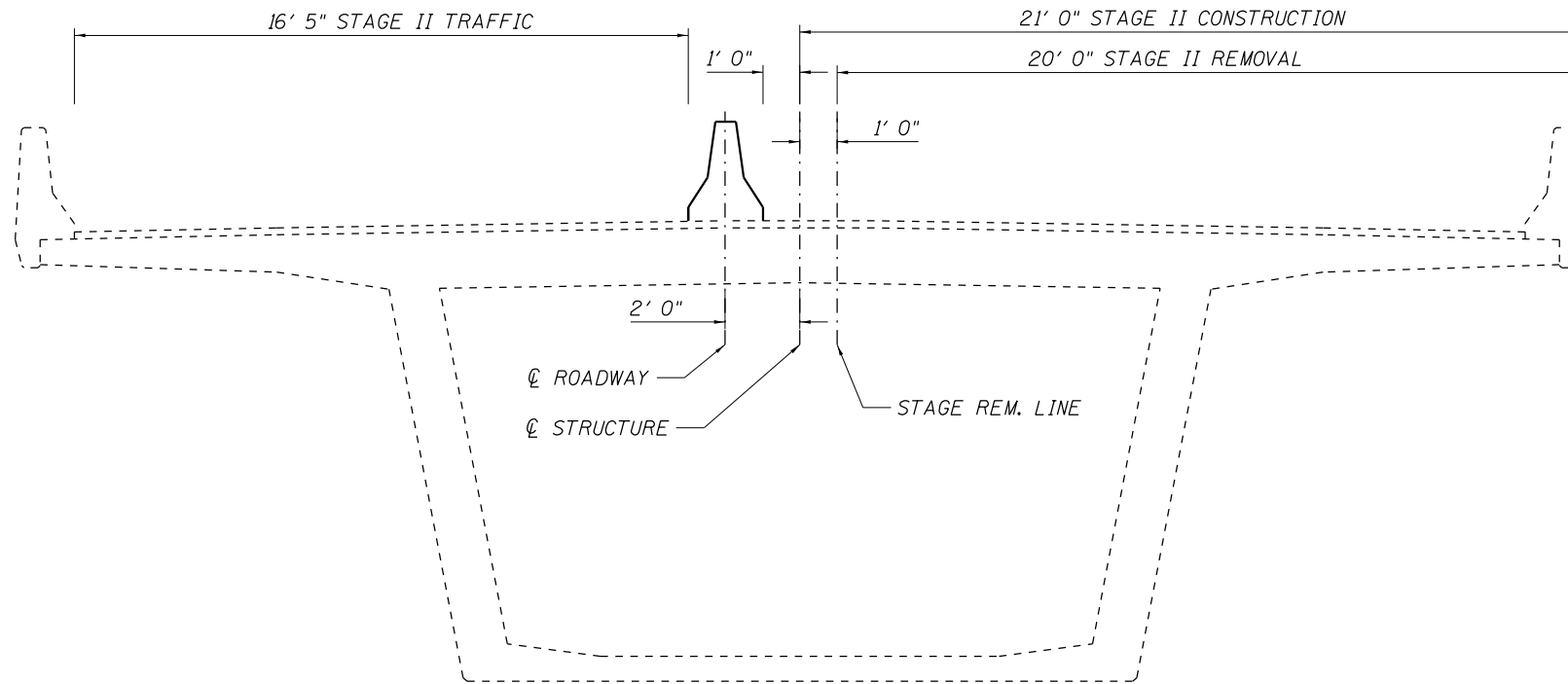
* SPECIALTY ITEM

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							ILLINOIS		FED. AID PROJECT		



STAGE I CROSS SECTION (LOOKING IN DIRECTION OF TRAFFIC)



STAGE II CROSS SECTION (LOOKING IN DIRECTION OF TRAFFIC)

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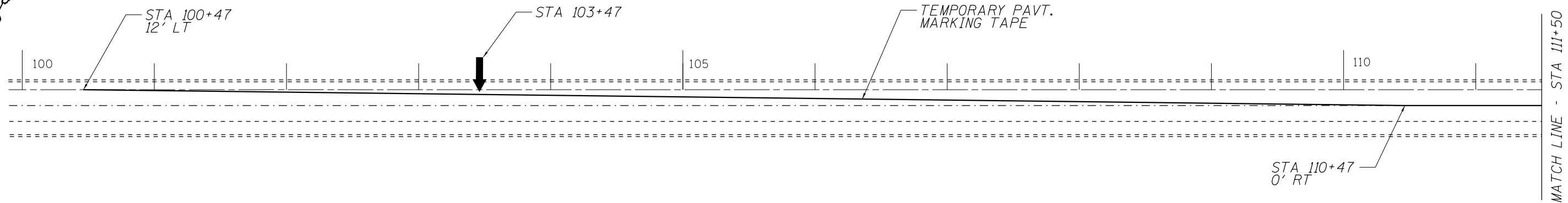
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

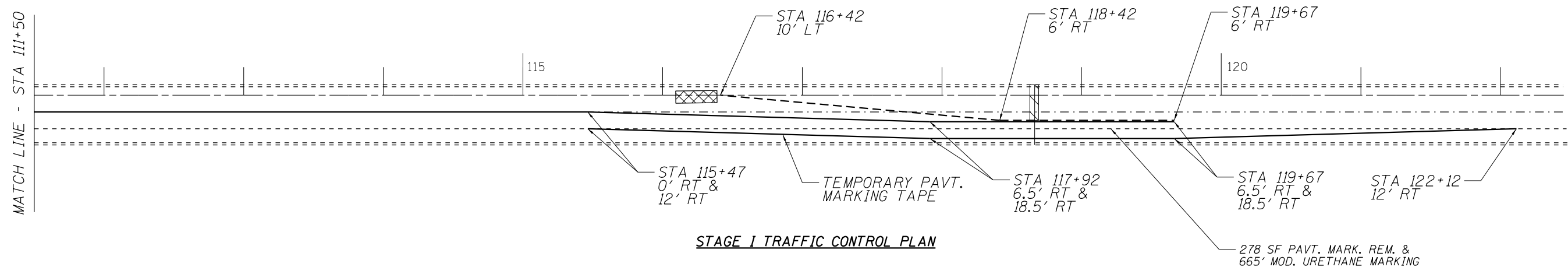
**TRAFFIC STAGING DETAIL
 SN 075-0122 & 0123**

SCALE: _____ SHEET ____ OF ____ SHEETS STA. _____ TO STA. _____

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 72M42				
ILLINOIS FED. AID PROJECT				

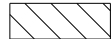





STAGE I TRAFFIC CONTROL PLAN



STAGE I TRAFFIC CONTROL PLAN

SYMBOLS

-  WORK AREA
-  TEMPORARY CONCRETE BARRIER
-  IMPACT ATTENUATOR
-  ARROW BOARD

TRAFFIC CONTROL NOTES:

1. TRAFFIC CONTROL DEVICES NOT SHOWN IN THIS DETAIL SHALL BE PER STANDARD 701402. DEVICES AND TEMPORARY PAVEMENT MARKINGS SHOWN IN THIS DETAIL SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION, STANDARD 701402. IMPACT ATTENUATORS, AND TEMPORARY CONCRETE BARRIER SHALL BE PAID SEPARATELY.
2. LEFT AND RIGHT OFFSETS SHOWN SHALL REFER TO DISTANCES FROM THE CENTERLINE OF THE TRAFFIC LANES, NOT THE I-72 CENTERLINE.
3. TEMPORARY CONCRETE BARRIER OFFSETS GIVEN IN THIS DETAIL REFER TO THE EDGE OF THE BARRIER NEAREST TO LIVE TRAFFIC. BARRIER WALL TAPERS SHALL BE 12:1 UNLESS OTHERWISE NOTED.
4. IMPACT ATTENUATORS SHALL NOT BE ANCHORED TO THE BRIDGE DECK.
5. SHOULDER INLETS EAST OF THE BRIDGE SHALL BE TEMPORARILY FILLED PER THE SPECIAL PROVISIONS PRIOR TO PLACING STAGE TRAFFIC ON THEM.

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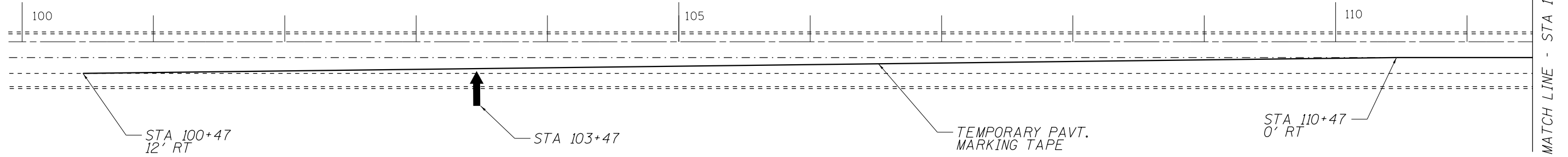
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

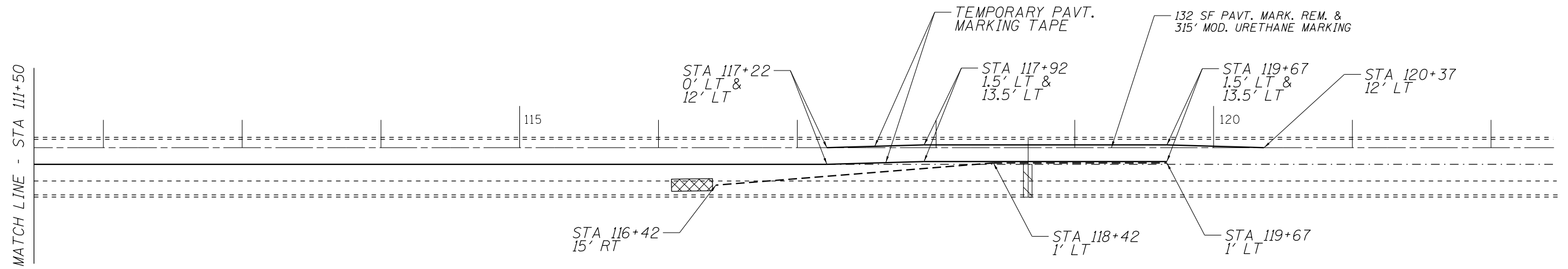
**STAGE I TRAFFIC CONTROL PLAN
SN 075-0122**

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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 72M42				
ILLINOIS		FED. AID PROJECT		


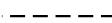




STAGE II TRAFFIC CONTROL PLAN



STAGE II TRAFFIC CONTROL PLAN

SYMBOLS

-  WORK AREA
-  TEMPORARY CONCRETE BARRIER
-  IMPACT ATTENUATOR
-  ARROW BOARD

TRAFFIC CONTROL NOTES:

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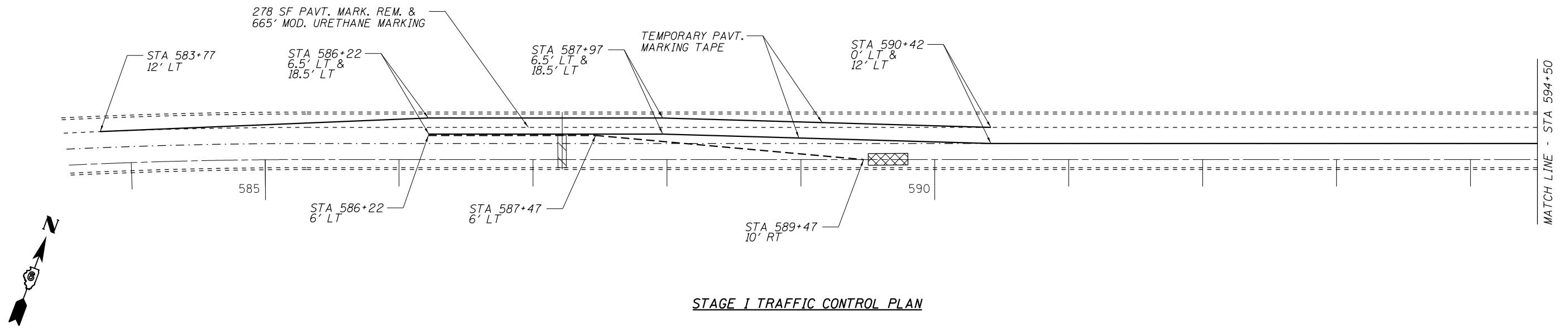
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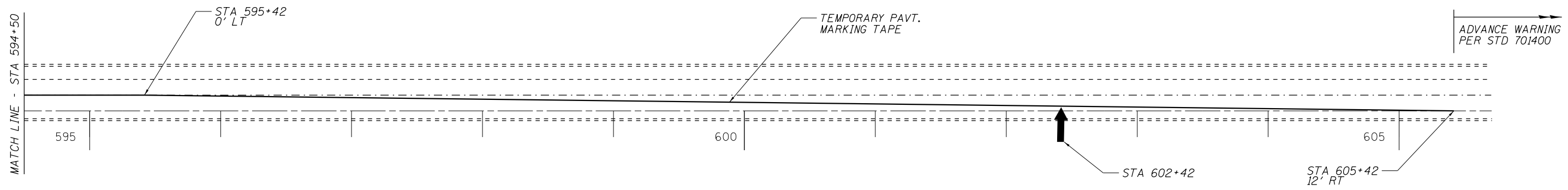
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STAGE II TRAFFIC CONTROL PLAN			
SN 075-0122			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 72M42				
		ILLINOIS	FED. AID PROJECT	


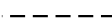




STAGE I TRAFFIC CONTROL PLAN



STAGE I TRAFFIC CONTROL PLAN

SYMBOLS

-  WORK AREA
-  TEMPORARY CONCRETE BARRIER
-  IMPACT ATTENUATOR
-  ARROW BOARD

TRAFFIC CONTROL NOTES:

1. TRAFFIC CONTROL DEVICES NOT SHOWN IN THIS DETAIL SHALL BE PER STANDARD 701402. DEVICES AND TEMPORARY PAVEMENT MARKINGS SHOWN IN THIS DETAIL SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION, STANDARD 701402. IMPACT ATTENUATORS, AND TEMPORARY CONCRETE BARRIER SHALL BE PAID SEPARATELY.
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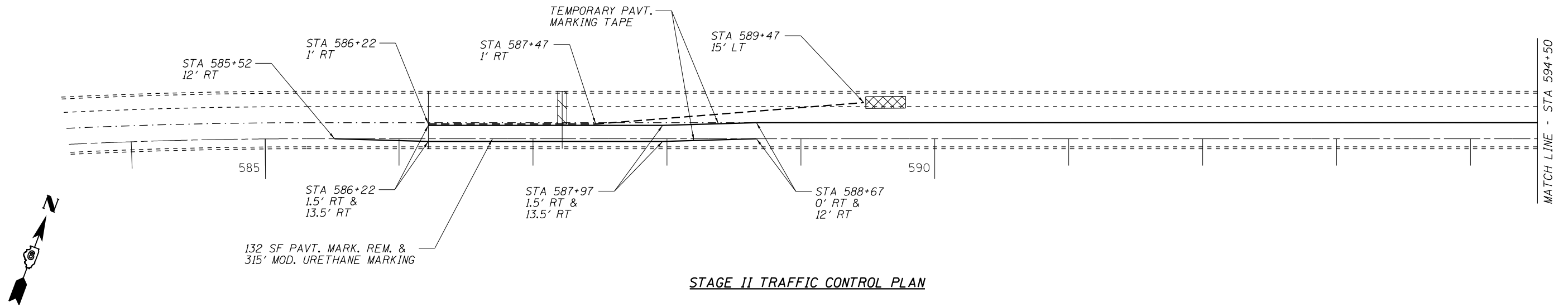
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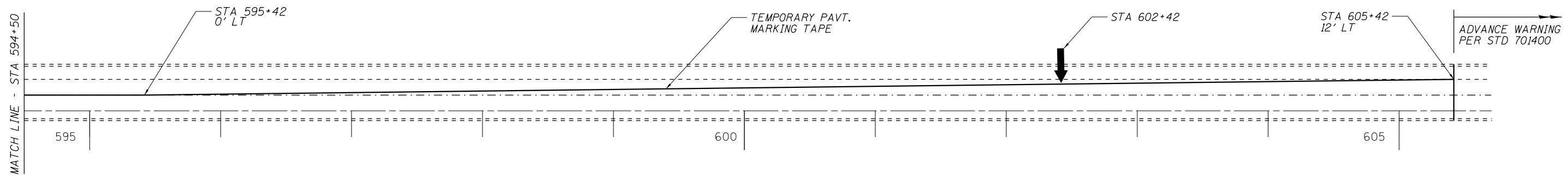
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STAGE I TRAFFIC CONTROL PLAN			
SN 075-0123			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 72M42				
ILLINOIS		FED. AID PROJECT		


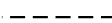




STAGE II TRAFFIC CONTROL PLAN



STAGE II TRAFFIC CONTROL PLAN

SYMBOLS

-  WORK AREA
-  TEMPORARY CONCRETE BARRIER
-  IMPACT ATTENUATOR
-  ARROW BOARD

TRAFFIC CONTROL NOTES:

1. TRAFFIC CONTROL DEVICES NOT SHOWN IN THIS DETAIL SHALL BE PER STANDARD 701402. DEVICES AND TEMPORARY PAVEMENT MARKINGS SHOWN IN THIS DETAIL SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION, STANDARD 701402. IMPACT ATTENUATORS, AND TEMPORARY CONCRETE BARRIER SHALL BE PAID SEPARATELY.
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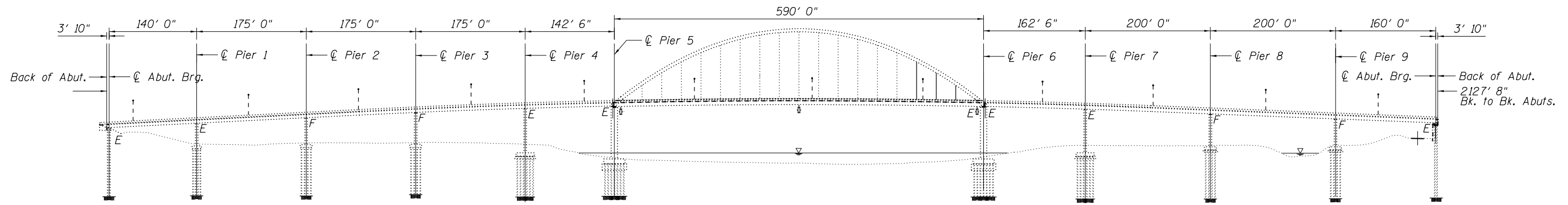
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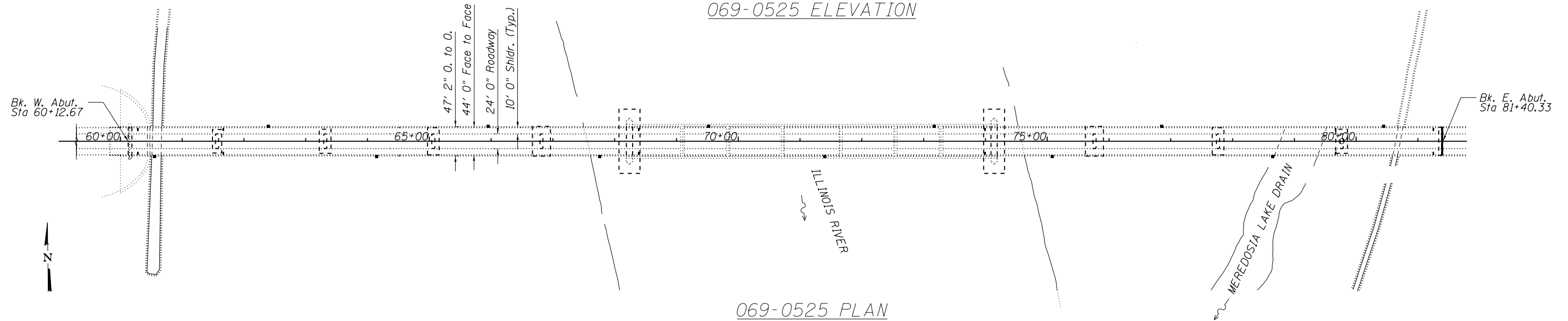
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE II TRAFFIC CONTROL PLAN			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

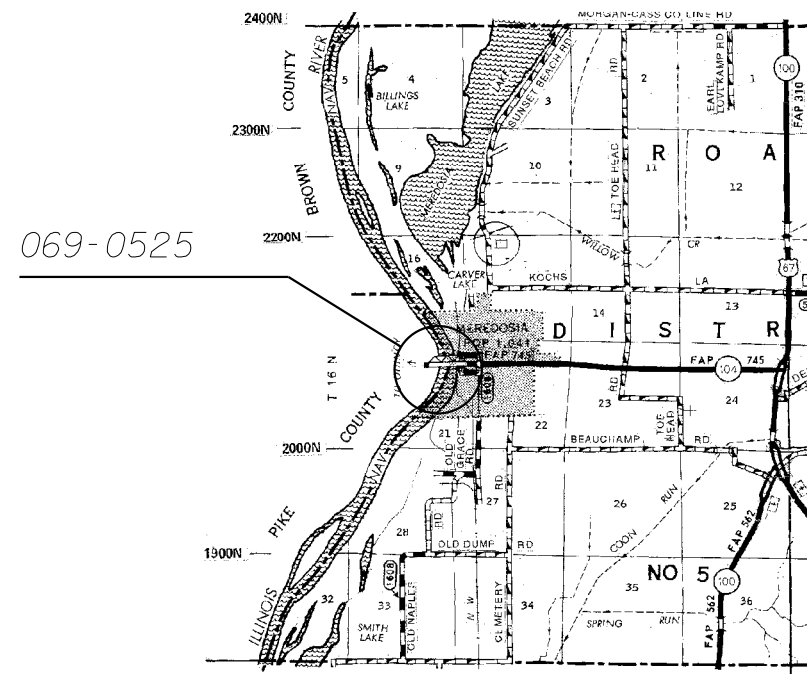
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72,745	(75-3,123)BC(75,86)BR-2,BC	PIKE	30	9
CONTRACT NO. 72M42				
ILLINOIS FED. AID PROJECT				



069-0525 ELEVATION



069-0525 PLAN



LOCATION MAP

TOTAL BILL OF MATERIAL (069-0525)

ITEM	UNIT	QUANTITY
Concrete Sealer	Sq. Ft.	6505
Bridge Washing No. 1	Each	1

STRUCTURE GENERAL NOTES:

PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING PLANS ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION AND MAKE 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 BID FOR THE WORK.

SEE SPECIAL PROVISIONS FOR AREAS OF BRIDGE TO BE WASHED.

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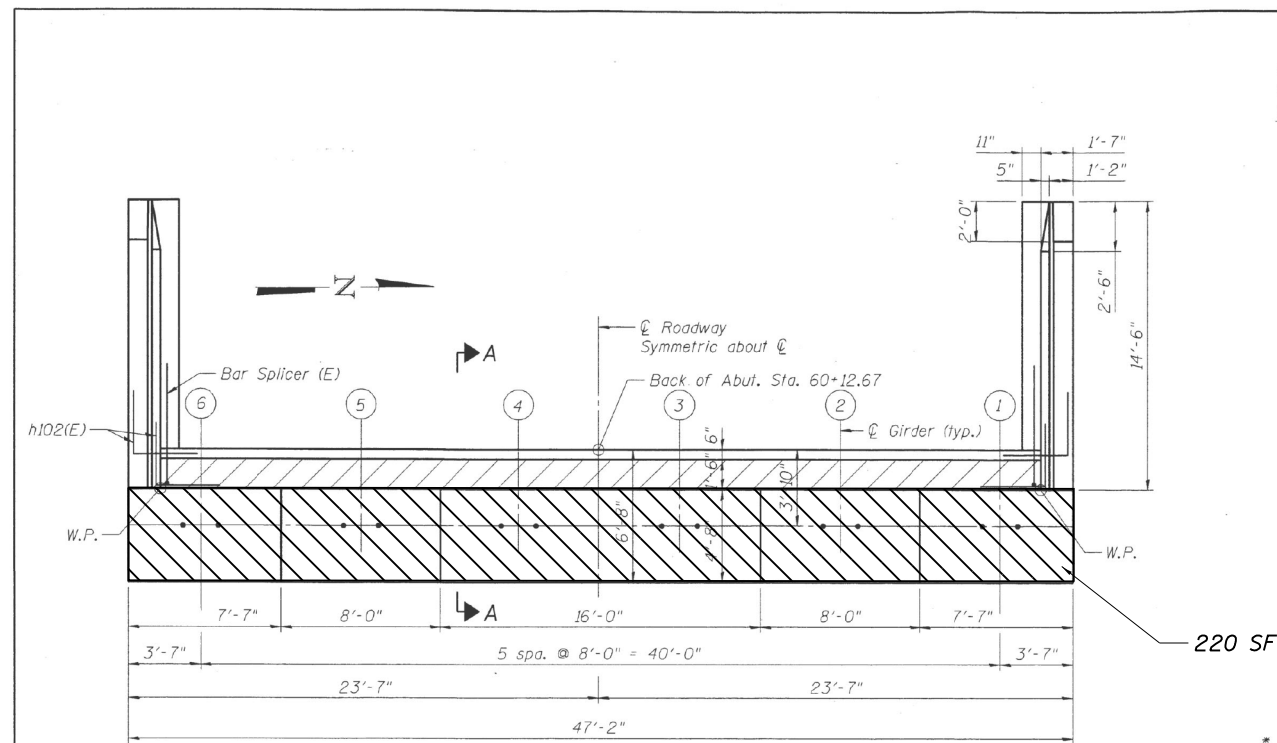
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	DRAWN - BRANDON DUDLEY	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED - JASON JONES	REVISED -
PLOT DATE = 10/6/2020	DATE - 8/28/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

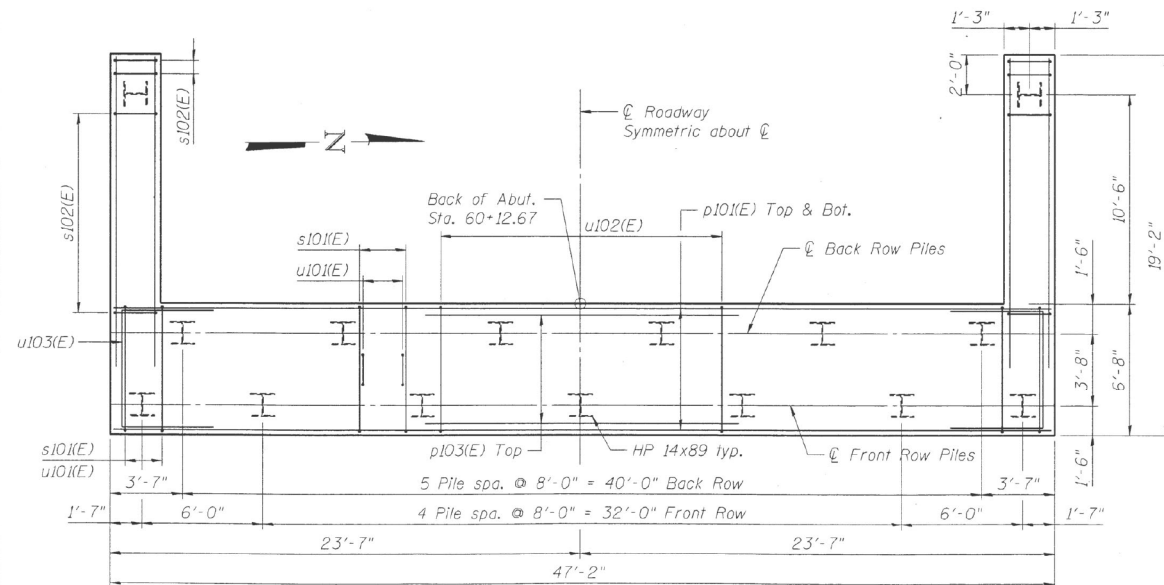
BRIDGE PLAN & ELEVATION
SN 069-0525

SCALE: SHEET 1 OF 6 SHEETS STA. TO STA.

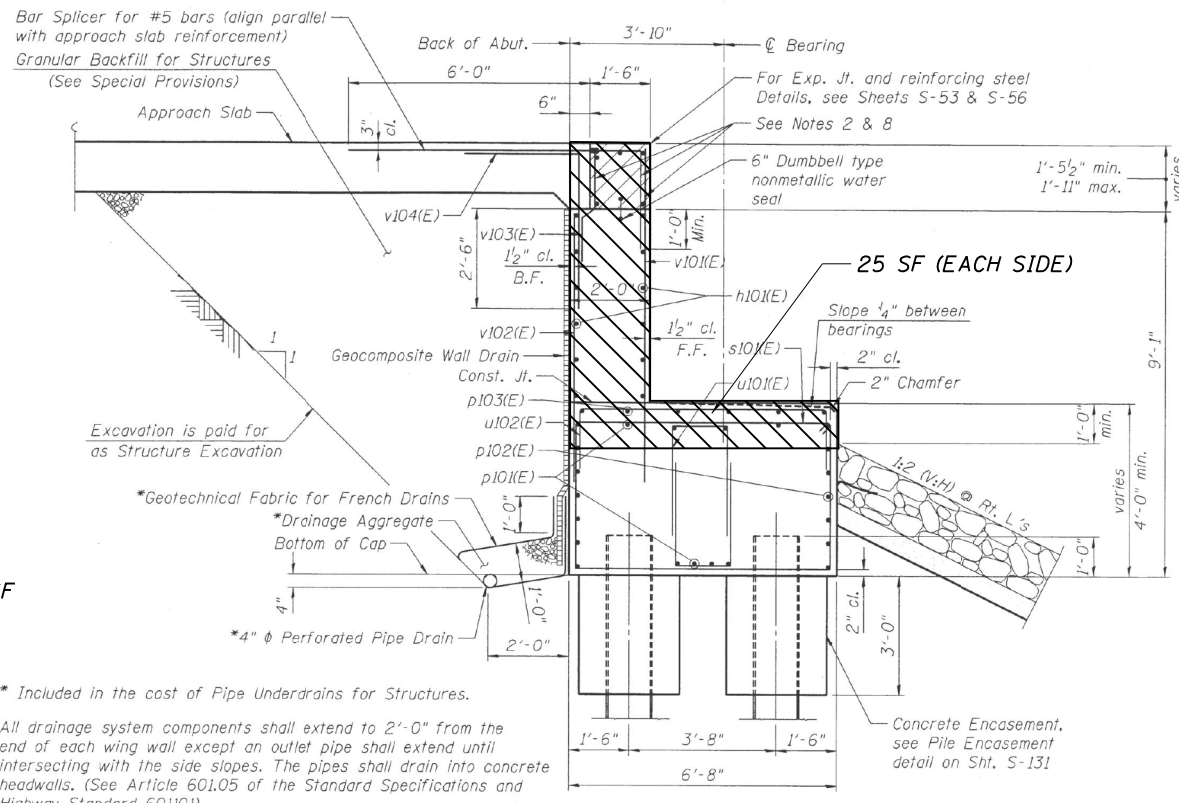
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72,745	(75-3,123)BC(75,86)BR-2,BC	PIKE	30	10
CONTRACT NO. 72M42				
ILLINOIS FED. AID PROJECT				



PLAN - TOP VIEW



PLAN - PILE CAP



SECTION A-A

BEARING SEAT ELEVATIONS

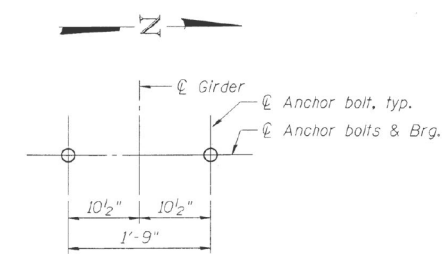
Girder	Elevation
1	459.55
2	459.71
3	459.87
4	459.87
5	459.71
6	459.55

PILE DATA (W. ABUT.)

Pile type and size:	HP 14x89 with pile shoe
Nominal Required Bearing:	705 kips
Factored Resistance Available:	183 kips
Estimated Pile Length:	108 feet
Number of Production Piles:	14
Number of Test Piles:	1
Est. Top/Rock Elev.	349.9

Notes:

- Space reinforcement in cap to miss anchor bolts.
- Hatched area of abutment back wall to be poured after superstructure forms have been removed. Quantity of concrete included with Concrete Superstructure.
- F.F. indicates Front Face
B.F. indicates Back Face
E.F. indicates Each Face
I.F. indicates Inside Face
O.F. indicates Outside Face
- For approach slab details see Shts. S-47 and S-48
- All exposed surfaces of backwall, bridge seats, and front face of pile cap shall be treated with Concrete Sealer.
- Bars indicated thus 5x2-#5 etc. indicates 5 lines of bars with 2 lengths per line.
- For bar splicer details see Sht. S-132
- Locate reinforcing steel bars in coordination with the selected modular expansion joint. Make necessary adjustments as approved in writing by the Engineer.



ANCHOR BOLT LAYOUT

FILE NAME *	USER NAME *	DESIGNED - HVP	REVISED -
exp U.S. Services Inc. Chicago, IL	DATE - 9/12/2014	CHECKED - JLR	REVISED -
BUILDINGS-EARTH & ENVIRONMENT-ENERGY	PLOT SCALE *	DRAWN - HVP	REVISED -
INDUSTRIAL-INFRASTRUCTURE-SUSTAINABILITY	PLOT DATE *	CHECKED - VCP	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WEST ABUTMENT PLAN

F.A.P. RATE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
745	123B-2	MORGAN	782	478
SN 069-0525		CONTRACT NO. 72B58		
ILLINOIS FED. AID PROJECT				

BILL OF MATERIAL - W. ABUT.

ITEM	UNIT	QUANTITY
CONCRETE SEALER	SQ. FT.	555

USER NAME = dudleybm	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 10/6/2020	DATE -	REVISED -

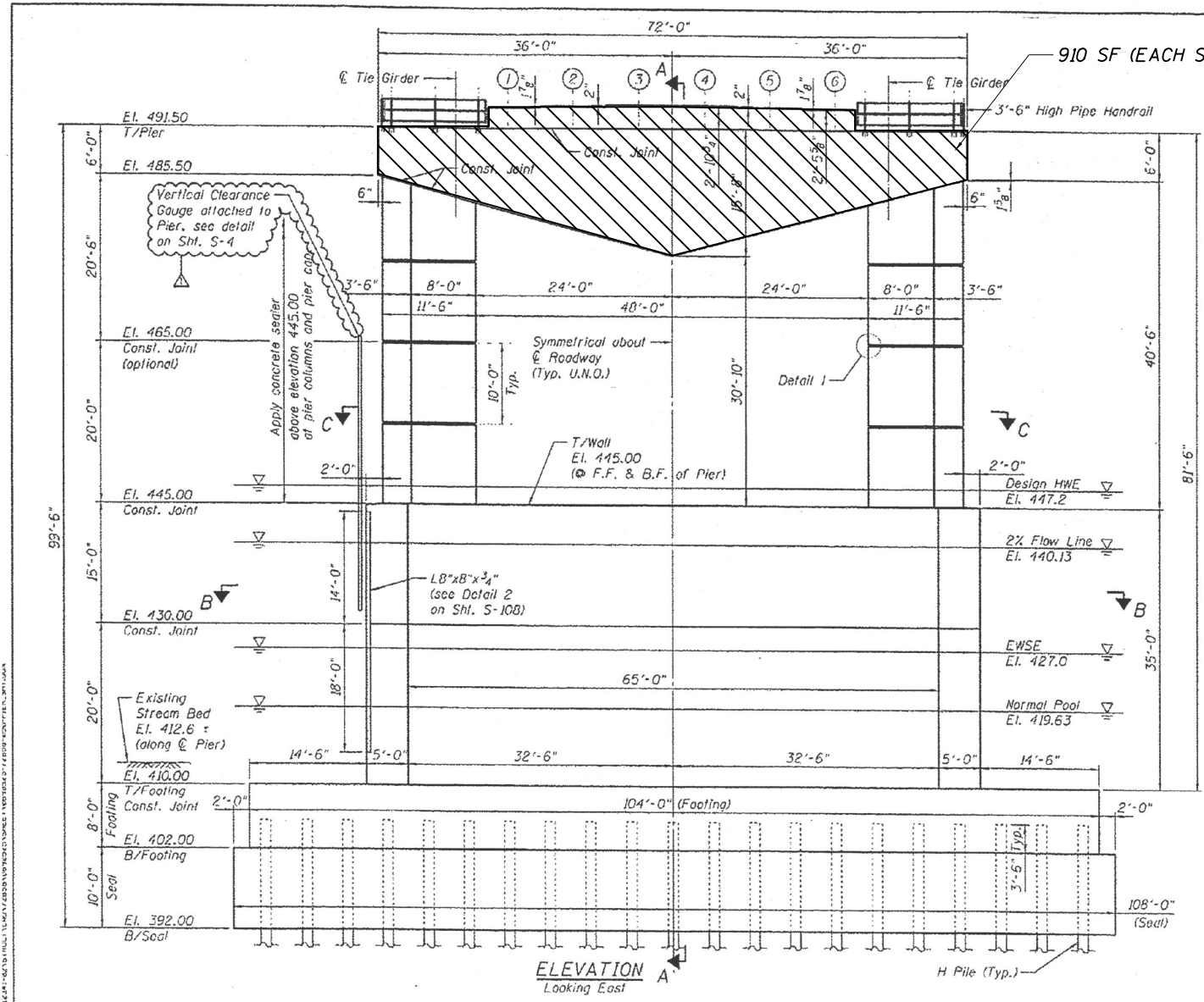
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WEST ABUTMENT SEALING PLAN
SN 069-0525

SCALE: SHEET 2 OF 6 SHEETS STA. TO STA.

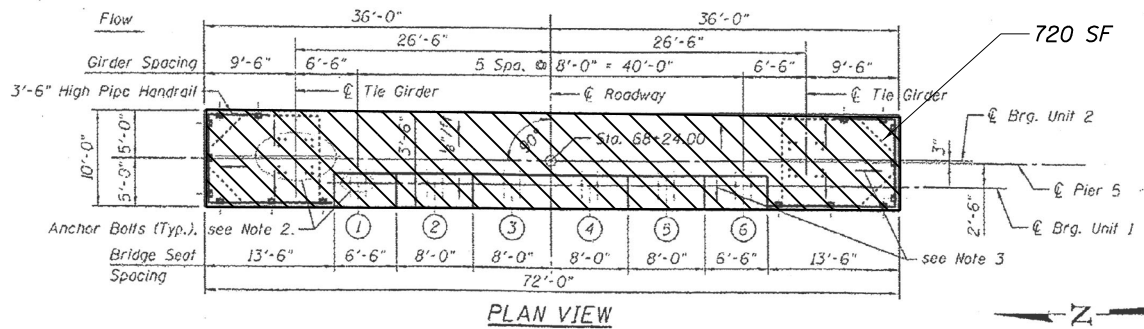
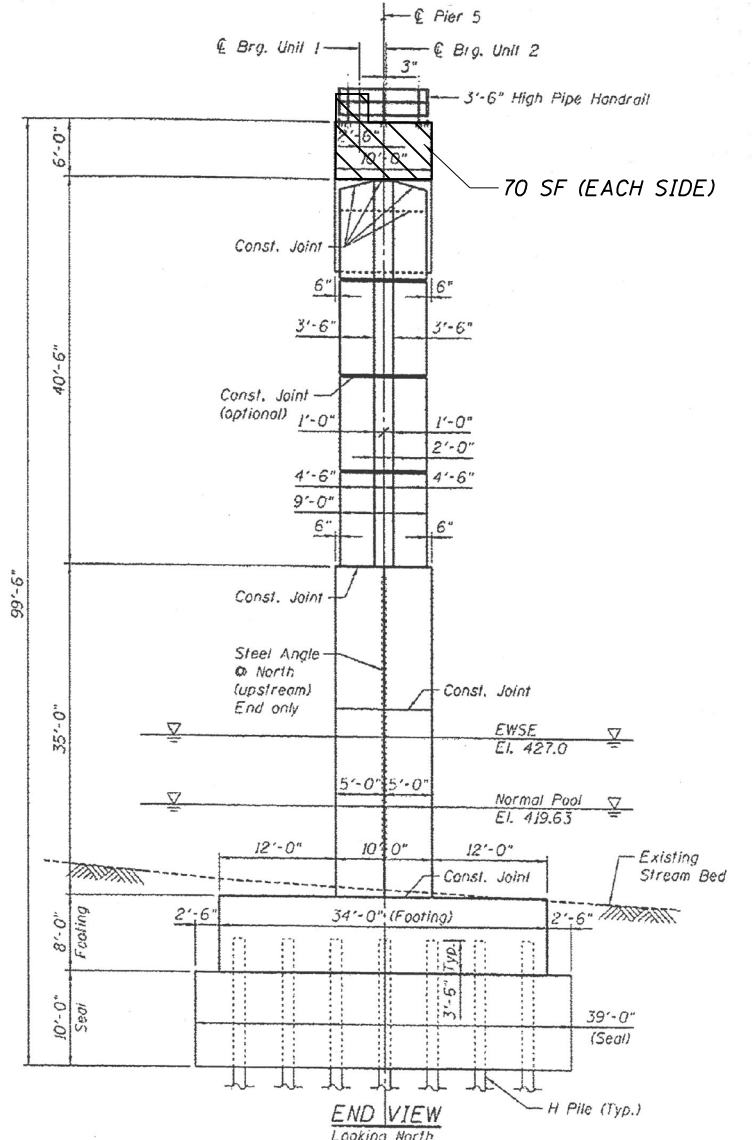
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72,745	(75-3,123)BC(75.86)BJR-2,BC	PIKE	30	11
CONTRACT NO. 72M42				
ILLINOIS FED. AID PROJECT				

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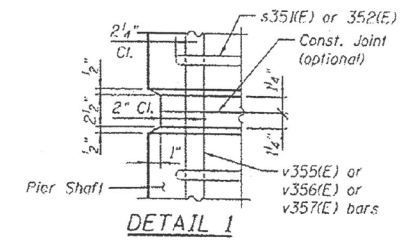


UNIT 1 BEARING SEAT ELEVATIONS

Girder	Elevation
1	493.97
2	494.13
3	494.29
4	494.29
5	494.13
6	493.97



- Notes:**
1. For pipe handrail details, see Sht. S-114.
 2. For anchor bolt details, see Bearing Details Drawings. For anchor bolt layout, see Sht. S-108.
 3. Bearing seats are to be constructed level. Slope to drain between bearing seats at 1/8\"/>



FILE NAME	USER NAME	DESIGNED	REVISIONS
exp	dudleybm	HYP, SGC	ADDENDUM NO. 1, 11/25/2014
DATE	11/25/2014	CHECKED	RSM
PLOT SCALE		DRAWN	FD
PLOT DATE		CHECKED	SGC
		REVISIONS	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER 5
PLAN & ELEVATIONS
SHEET NO. 5-107 OF 146 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
745	1236-2	MORGAN	782	498
SN 069-0525		CONTRACT NO. 72858		

BILL OF MATERIAL - PIER 5

ITEM	UNIT	QUANTITY
CONCRETE SEALER	SQ. FT.	2680

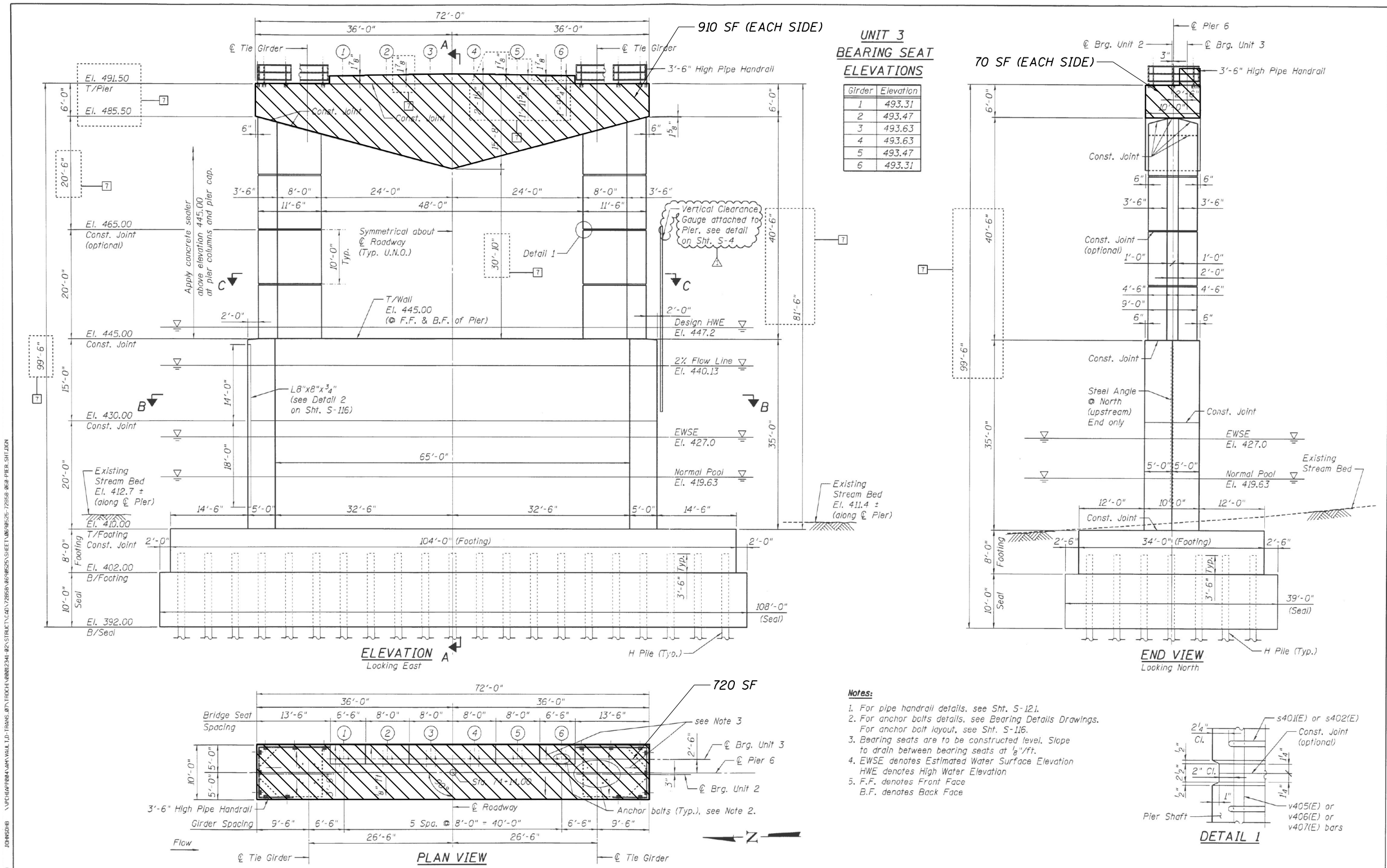
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dudleybm	HYP, SGC	ADDENDUM NO. 1, 11/25/2014
DATE	CHECKED	RSM
11/25/2014	DRAWN	FD
PLOT SCALE = 100,0000' / in.	CHECKED	SGC
PLOT DATE = 10/6/2020	REVISIONS	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER 5
SN 069-0525
SCALE: SHEET 4 OF 6 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72,745	(75-3,123)BC(75,86)BJR-2,BC	PIKE	30	13
ILLINOIS FED. AID PROJECT		CONTRACT NO. 72M42		

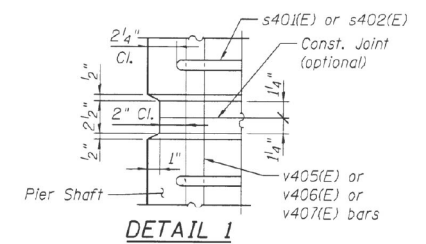
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UNIT 3 BEARING SEAT ELEVATIONS

Girder	Elevation
1	493.31
2	493.47
3	493.63
4	493.63
5	493.47
6	493.31

- Notes:**
- For pipe handrail details, see Sht. S-121.
 - For anchor bolts details, see Bearing Details Drawings. For anchor bolt layout, see Sht. S-116.
 - Bearing seats are to be constructed level. Slope to drain between bearing seats at 1/8"/ft.
 - EWSE denotes Estimated Water Surface Elevation. HWE denotes High Water Elevation.
 - F.F. denotes Front Face. B.F. denotes Back Face.



FILE NAME =	USER NAME =	DESIGNED - HVP, SGC	REVISED - ADDENDUM NO. 1, 11/25/2014	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PIER 6 PLAN & ELEVATIONS	F.A.P. RTE. =	SECTION =	COUNTY =	TOTAL SHEETS =	SHEET NO. =
exp. U.S. Services Inc. Chicago, IL	DATE = 7/16/2015	CHECKED - RSN	REVISED - CONST. CHANGE 06/17/2016			745	1238-2	MORGAN	782	496
BUILDINGS-GAITH & ENVIRONMENT-ENERGY	PLOT SCALE =	DRAWN - FD	REVISED -			SN 069-0525		CONTRACT NO. 72B58		
PROJECT FOR THE ILLINOIS DEPARTMENT OF TRANSPORTATION	PLOT DATE =	CHECKED - SGC	REVISED -			ILLINOIS FED. AID PROJECT		CONTRACT NO. 72M42		

BILL OF MATERIAL - PIER 6

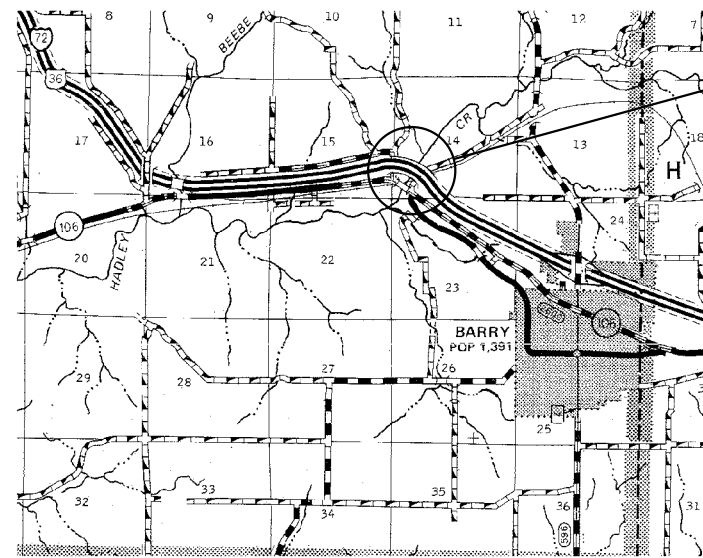
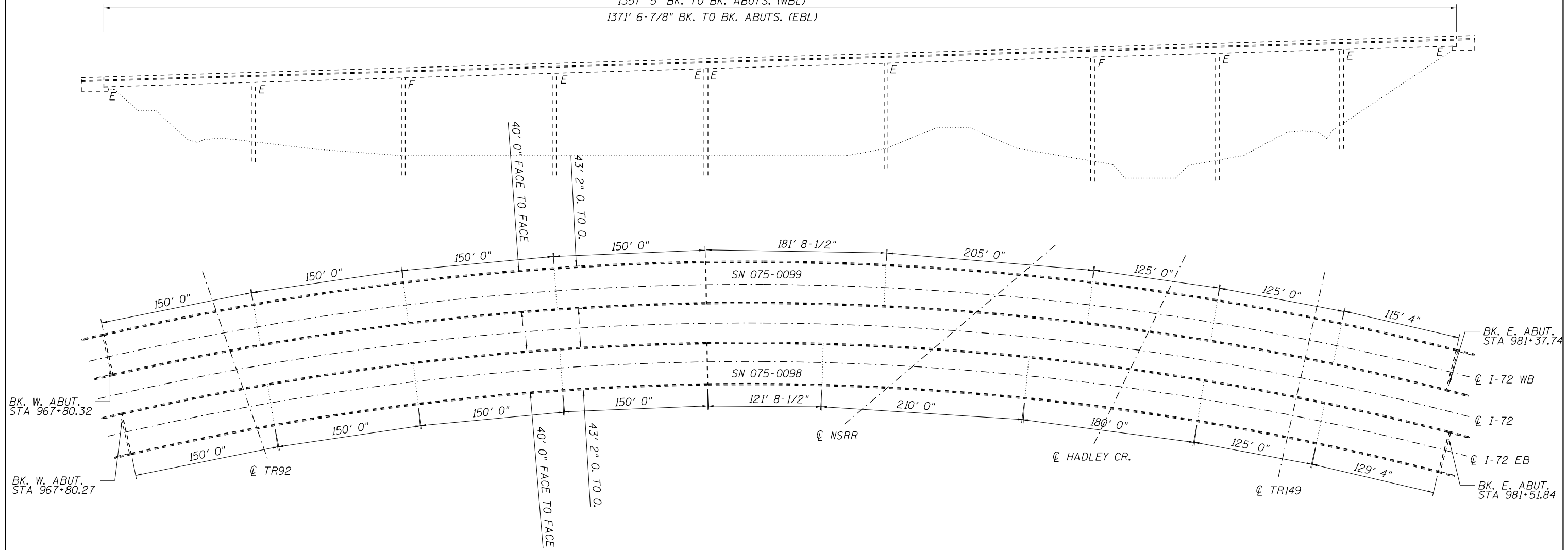
ITEM	UNIT	QUANTITY
CONCRETE SEALER	SQ. FT.	2680

USER NAME = dudleybm	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PIER 6 SEALING PLAN SN 069-0525	F.A. RTE. =	SECTION =	COUNTY =	TOTAL SHEETS =	SHEET NO. =	
	DRAWN -	REVISED -			72,745	(75-3,123)BC(75,86)BJR-2,BC	PIKE	30	14	
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -			SCALE: SHEET 5 OF 6 SHEETS STA. TO STA.		ILLINOIS FED. AID PROJECT		CONTRACT NO. 72M42	
PLOT DATE = 10/6/2020	DATE -	REVISED -								



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1357' 5" BK. TO BK. ABUTS. (WBL)
 1371' 6-7/8" BK. TO BK. ABUTS. (EBL)



LOCATION MAP

TOTAL BILL OF MATERIAL (075-0098 & 0099)

ITEM	UNIT	QUANTITY
Concrete Sealer	Sq. Ft.	3280
Bridge Washing No. 2	Each	1
Bridge Washing No. 3	Each	1

STRUCTURE GENERAL NOTES:

PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING PLANS ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION AND MAKE 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 BID FOR THE WORK.

SEE SPECIAL PROVISIONS FOR AREAS OF BRIDGE TO BE WASHED.

MODEL: Default
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PLOT SCALE = 100.0000' / in.	DRAWN - BRANDON DUDLEY	REVISED -
PLOT DATE = 10/6/2020	CHECKED - JASON JONES	REVISED -
	DATE - 8/28/2020	REVISED -

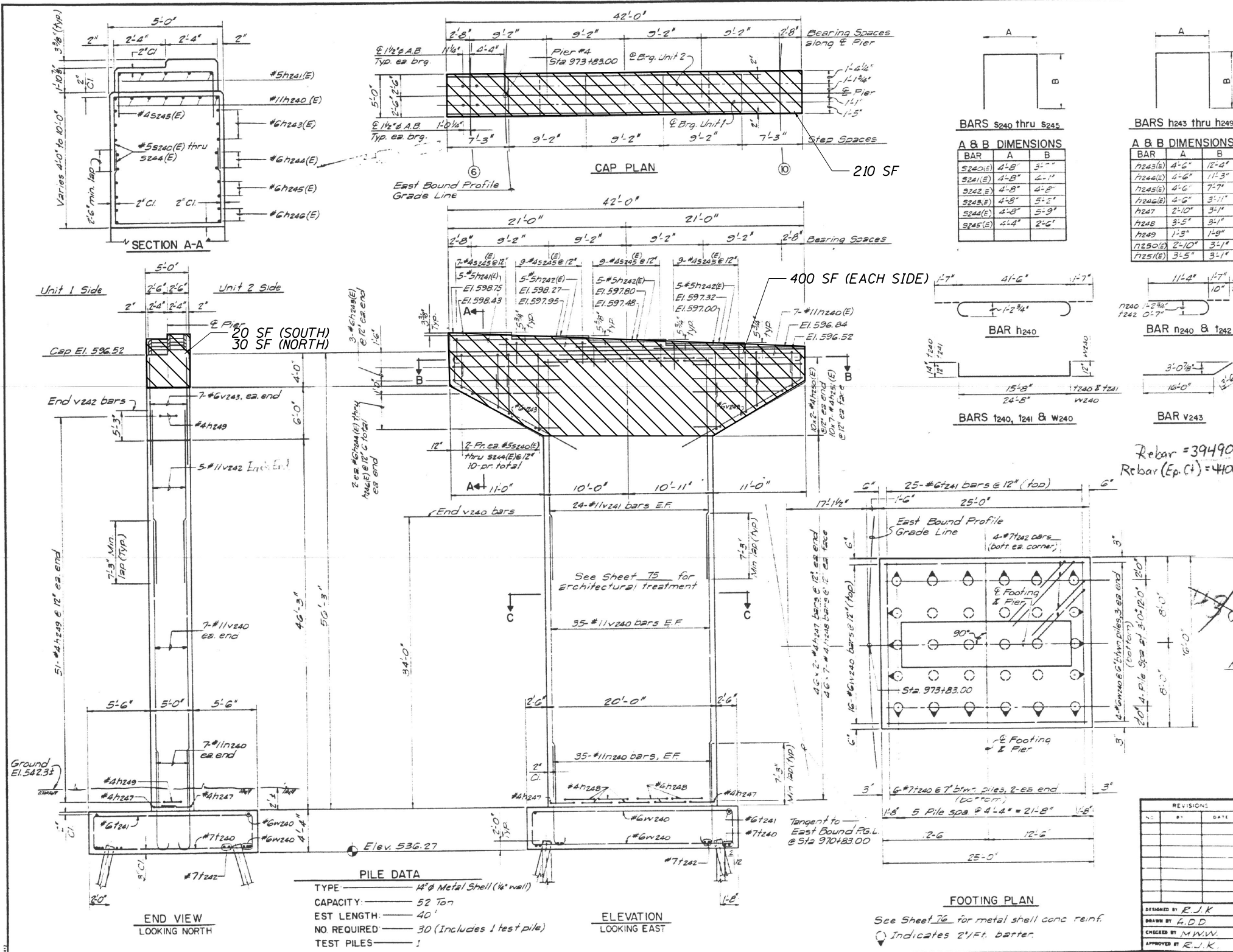
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**BRIDGE PLAN & ELEVATION
 SN 075-0098 & 0099**

SCALE: SHEET 1 OF 7 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72,745	(75-3,123)BC(75,86)BJR-2,BC	PIKE	30	16
CONTRACT NO. 72M42				
ILLINOIS FED. AID PROJECT				

ROUTE NO	SEC	COUNTY	TOTAL SHEETS	SHEET NO
EA 40B	75-3VHB-1	PIKE	114	21
STA	TO STA		SHEET NO 70 OF 76 SHEETS	
FED ROAD DIST NO	ILLINOIS PROJECT			



PIER NO. 4
BILL OF MATERIAL

BAR	NO	SIZE	LENGTH	SHAPE
n240(E)	7	#11	44'-8"	
n241(E)	5	#5	7'-0"	
n242(E)	15	#5	10'-9"	
n243(E)	6	#6	29'-2"	
n244(E)	4	#6	27'-0"	
n245(E)	4	#6	19'-5"	
n246(E)	4	#6	12'-4"	
n247	184	#4	9'-0"	
n248	644	#4	9'-7"	
n249	102	#4	4'-9"	
n250(E)	40	#4	9'-0"	
n251(E)	140	#4	9'-7"	
n240	84	#11	12'-11"	7101.6
n241	8	#5	11'-10"	5701.6
n242	8	#5	12'-10"	
n243	8	#5	12'-0"	
n244	8	#5	15'-0"	
n245	8	#5	16'-2"	
n246	8	#5	9'-4"	794.121
n247	34	#7	18'-0"	
n248	25	#6	17'-8"	
n249	16	#7	12'-2"	
v240	84	#11	34'-0"	
v241	48	#11	29'-2"	
v242	10	#11	24'-9"	
v243	14	#6	19'-6"	
w240	38	#6	26'-8"	

Class X Concrete Cu Yd 305.6
Reinforcement Bars Found 23750
Reinf. Bars (Epoxy Coated) Found 2400
Metal Shell Piles 14" Lin Ft 1160
Bridge Seal Sealer L Sum 1
Test Pile Metal Shells Each 1
Structure Excavation Cu Yd 129

NOTES: Bars designated (E) shall be epoxy coated.
All edges shall have #4 chamfer unless noted otherwise.
For Sections B-B, & C-C See Sheet 76.
Steps shall be poured monolithically with pier cap.
Space reinforcement in cap to miss anchor bolts.

Rebar = 39490
Rebar (Ep. Ct) = 4100

BILL OF MATERIAL - SN 075-0098 PIER 4

ITEM	UNIT	QUANTITY
CONCRETE SEALER	SQ. FT.	660

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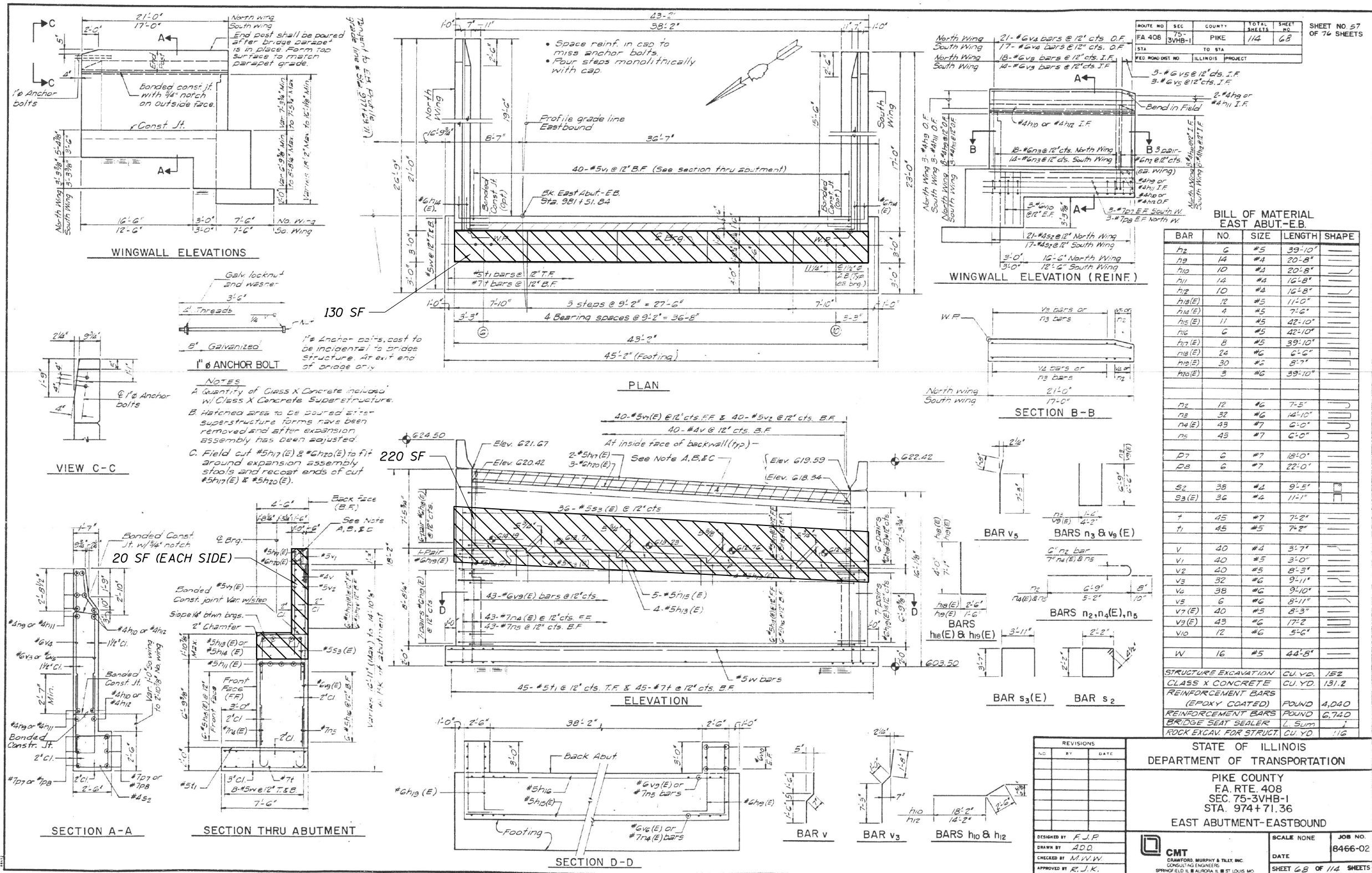
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	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 10/6/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER 4 SEALING PLAN
SN 075-0098

SCALE: SHEET 3 OF 7 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72,745	(75-3,123)BC(75,86)BJR-2,BC	PIKE	30	18
CONTRACT NO. 72M42			ILLINOIS	FED. AID PROJECT



BILL OF MATERIAL EAST ABUT.-E.B.

BAR NO	SIZE	LENGTH	SHAPE
n2	#5	39'-10"	
n3	#4	20'-8"	
n10	#3	20'-8"	
n11	#4	16'-8"	
n12	#4	16'-8"	
n13(E)	#5	11'-0"	
n14(E)	#5	7'-6"	
n15(E)	#5	42'-10"	
n16(E)	#5	42'-10"	
n7(E)	#5	39'-10"	
n8(E)	#6	6'-0"	
n9(E)	#5	8'-7"	
n10(E)	#5	39'-10"	
n11(E)	#5	22'-0"	
n12	#6	7'-5"	
n13	#6	14'-10"	
n14(E)	#7	6'-0"	
n15	#7	6'-0"	
D7	#7	18'-0"	
D8	#7	22'-0"	
S2	#4	9'-5"	
S3(E)	#4	11'-1"	
v1	#7	7'-2"	
v2	#7	7'-2"	
v3	#4	3'-7"	
v4	#5	3'-0"	
v5	#5	8'-3"	
v6	#5	8'-3"	
v7	#6	9'-11"	
v8	#6	9'-10"	
v9	#6	8'-11"	
v10	#6	17'-2"	
v11	#6	5'-6"	
w1	#5	44'-5"	
w2	#5	44'-5"	
S2	CU. YD.	152	
S3	CU. YD.	131.2	
n1-n16	POUND	4,040	
v1-v10	POUND	6,740	
w1-w2	L. SUM	1	
D7-D8	CU. YD.	116	

BILL OF MATERIAL - SN 075-0098 E. ABUT.

ITEM	UNIT	QUANTITY
CONCRETE SEALER	SQ. FT.	390

USER NAME = dudleybm	DESIGNED -	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 10/6/2020	CHECKED -	REVISED -
	DATE -	REVISED -

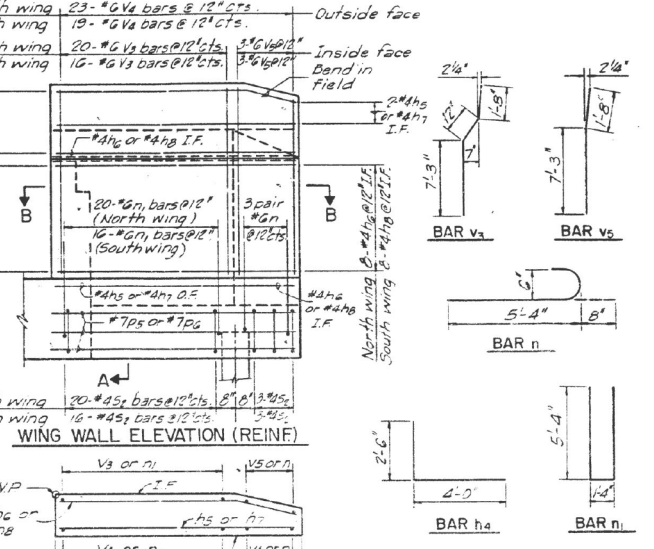
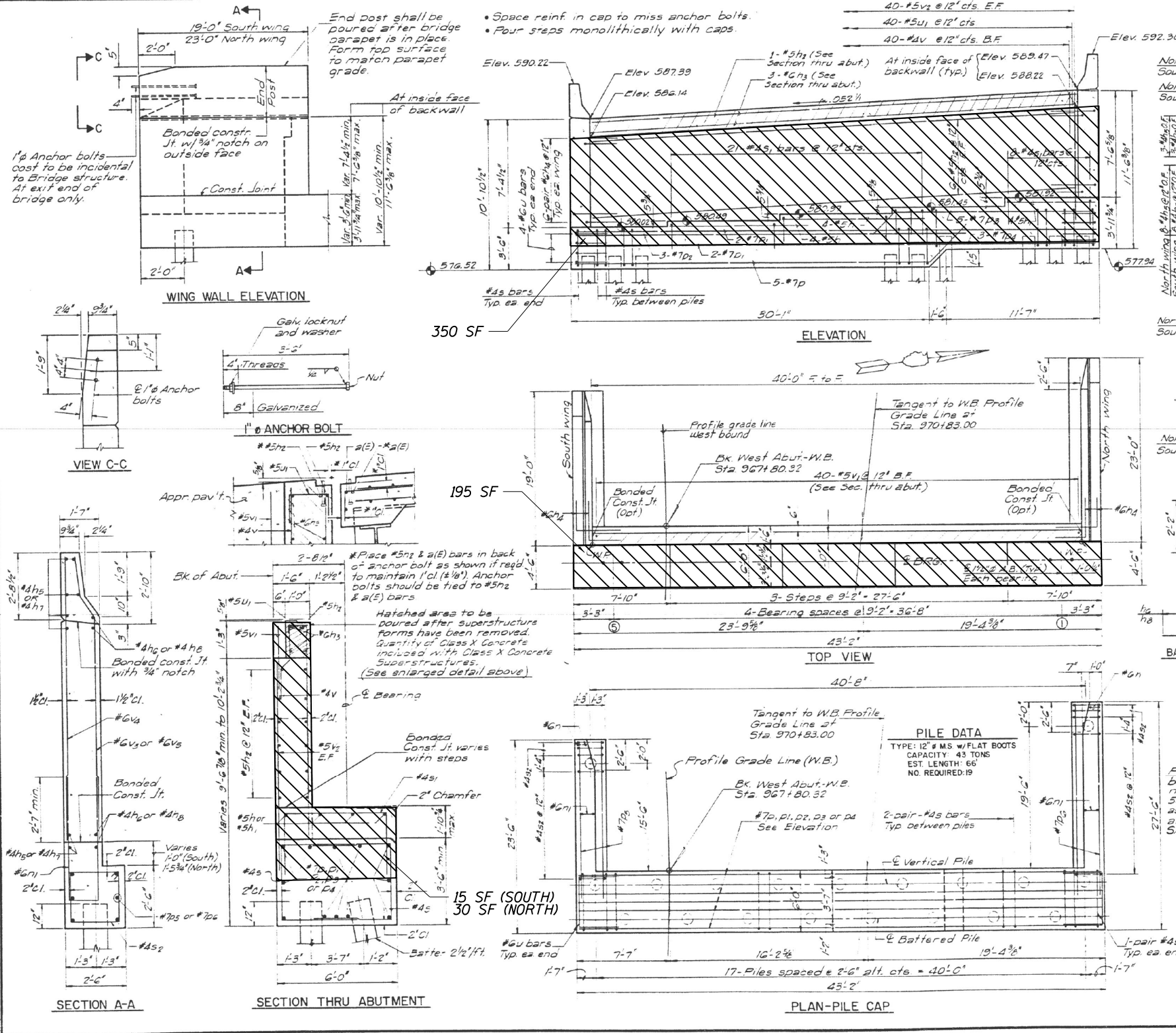
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EAST ABUTMENT SEALING PLAN
SN 075-0098**

SCALE: SHEET 4 OF 7 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72,745	(75-3,123)BC(75,86)BJR-2,BC	PIKE	30	19
CONTRACT NO. 72M42			ILLINOIS FED. AID PROJECT	

MODEL: Defaul... FILE: NAME: C:\OPERATIONS\Bids\Bids\Bids\Bids\Bids\CAD\72M42 - Pike Co. BRPK 2021\10\06\2020.dwg



BILL OF MATERIAL - WEST ABUT-WB

BAR NO.	SIZE	LENGTH	SHAPE	
n	8	11'-0"	U	
h ₁	4	7'-6"	U	
h ₂	3	39'-10"	U	
h ₃	3	39'-10"	U	
h ₄	24	6'-0"	U	
h ₅	12	22'-8"	U	
h ₆	10	22'-8"	U	
h ₇	10	18'-8"	U	
h ₈	10	18'-8"	U	
h ₉	12	6'-0"	U	
h ₁₀	30	12'-0"	U	
u	5	33'-8"	U	
p ₁	4	42'-10"	U	
p ₂	3	39'-3"	U	
p ₃	3	20'-2"	U	
p ₄	3	15'-1"	U	
p ₅	6	20'-0"	U	
p ₆	6	24'-0"	U	
s	70	3	10'-5"	U
s ₁	29	3	10'-4"	U
s ₂	42	3	9'-5"	U
v	8	3	12'-0"	U
v ₁	40	3	11'-10"	U
v ₂	40	3	5'-7"	U
v ₃	40	3	3'-5"	U
v ₄	80	3	8'-9"	U
v ₅	36	3	9'-11"	U
v ₆	42	3	10'-0"	U
v ₇	6	3	8'-11"	U
cu	cu	cu	240	cu yd
cs	cs	cs	92.2	cu yd
rb	rb	rb	7,550	lb
ms	ms	ms	12,54	lin ft

PILE NOTES: Delay pile driving until bridge cone has been in place two months min. Cost piles above elev. 548.0 w/4" min. thick of either asphaltic cement S.C. or M.C. liquid asphalt (Cost incidental to Metal Shell Piles. 12'.)

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PIKE COUNTY
 FA RTE. 408
 SEC. 75-3VHB-1
 STA. 974+71.36

WEST ABUTMENT - WESTBOUND

SCALE NONE

JOB NO. 8466-02

DESIGNED BY F.J.P.
 DRAWN BY G.L.D.
 CHECKED BY M.W.V.
 APPROVED BY R.J.K.

DATE

SHEET 65 OF 114 SHEETS

CONCRETE SEALER AREA

BILL OF MATERIAL - SN 075-0099 W. ABUT.

ITEM	UNIT	QUANTITY
CONCRETE SEALER	SQ. FT.	590

USER NAME = dudleybm	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 10/6/2020	DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

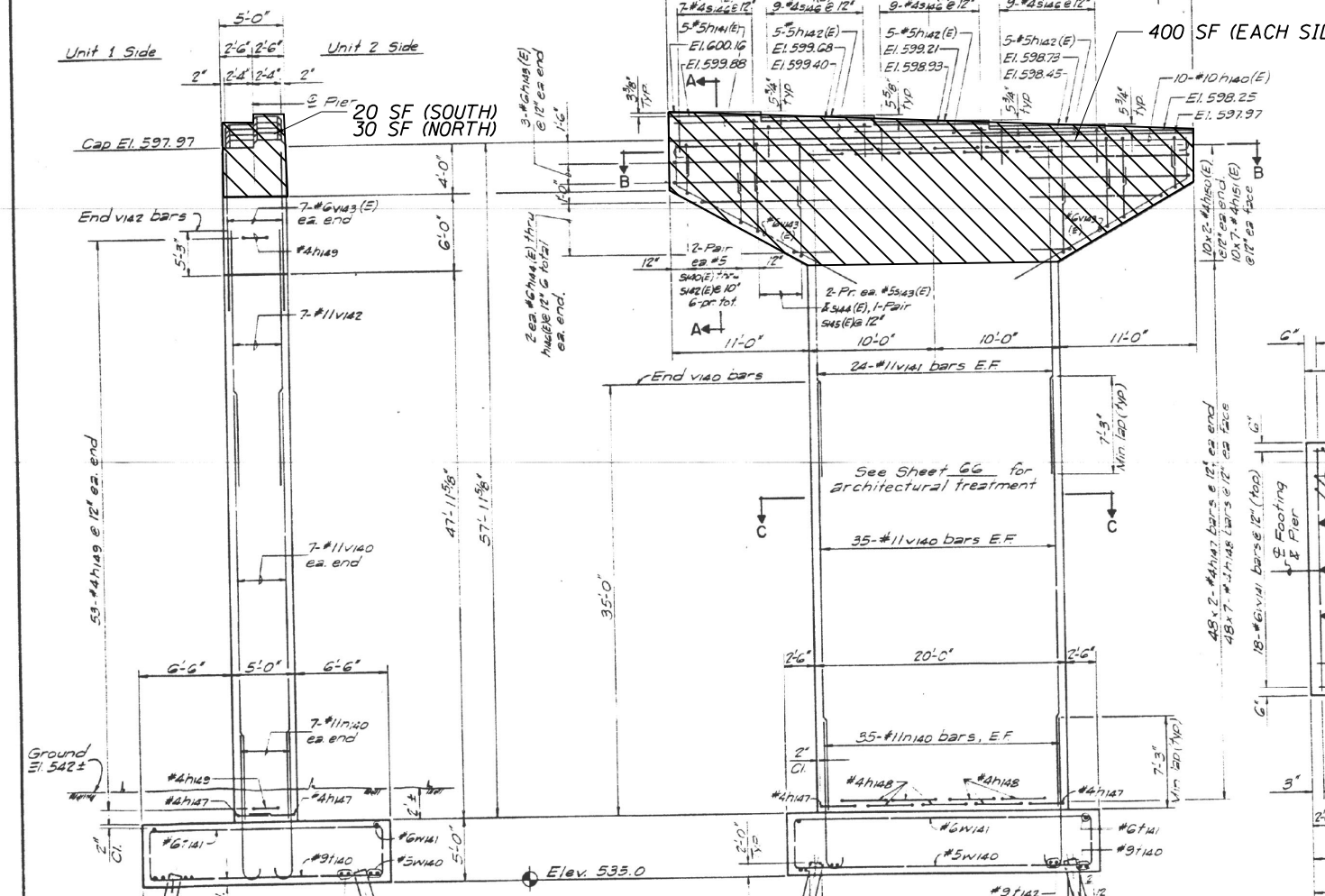
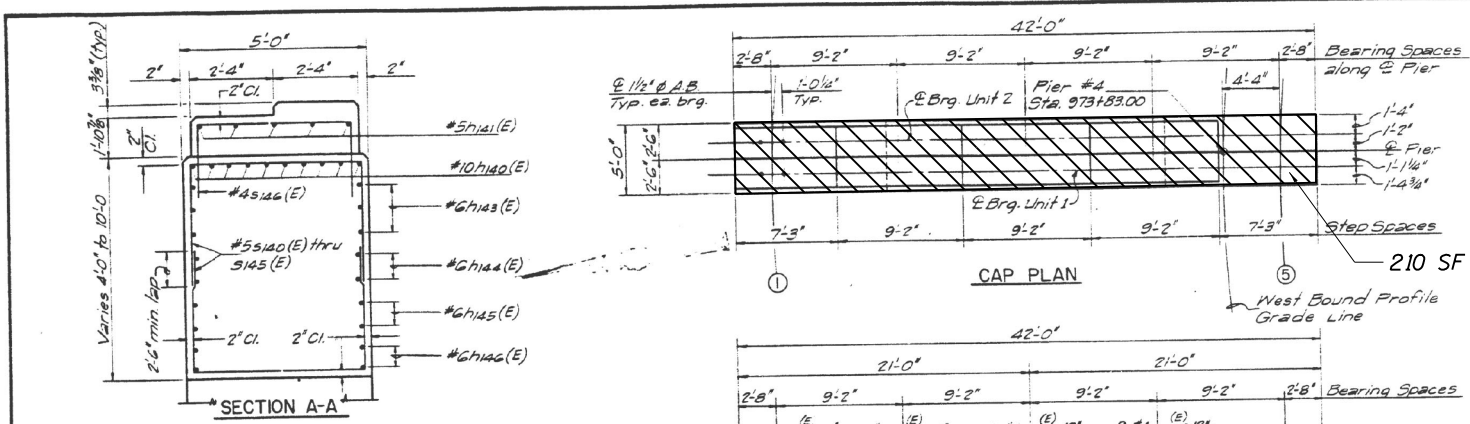
WEST ABUTMENT SEALING PLAN
 SN 075-0099

SCALE: SHEET 5 OF 7 SHEETS STA. TO STA.

F.A. RTE. 72,745	SECTION (75-3,123)BC(75.86)BJR-2,BC	COUNTY PIKE	TOTAL SHEETS 30	SHEET NO. 20
CONTRACT NO. 72M42			ILLINOIS FED. AID PROJECT	

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ROUTE NO	SEC	COUNTY	TOTAL SHEETS	SHEET NO.
FA 408	75-3VHB-1	PIKE	114	72
STA	TO STA		SHEET NO. OF 76 SHEETS	
FED ROAD DIST NO	ILLINOIS PROJECT			



BARS S140 thru S146

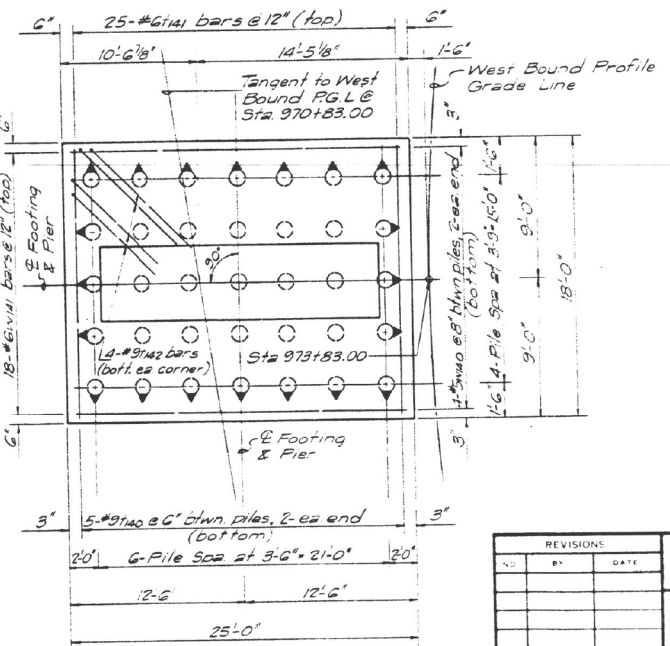
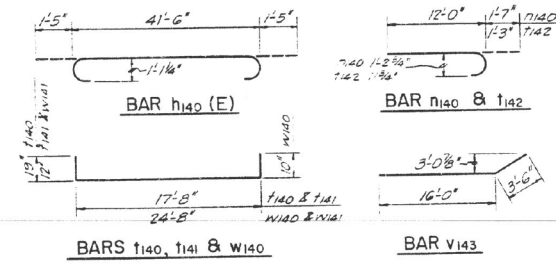
BAR	A	B
S140(E)	4'-8"	3'-7"
S141(E)	4'-8"	4'-0"
S142(E)	4'-8"	4'-5"
S143(E)	4'-8"	5'-0"
S144(E)	4'-8"	5'-5"
S145(E)	4'-8"	5'-9"
S146(E)	4'-8"	2'-6"

BARS H143 thru H149

BAR	A	B
H143(E)	4'-6"	12'-4"
H144(E)	4'-6"	11'-3"
H145(E)	4'-6"	7'-7"
H146(E)	4'-6"	3'-11"
H147	2'-10"	3'-1"
H148	3'-5"	9'-1"
H149	1'-9"	1'-9"
H150(E)	2'-10"	3'-1"
H151(E)	3'-5"	3'-1"

PIER NO. 4 BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
H140(E)	10	#10	44'-4"	□
H141(E)	5	#5	7'-0"	□
H142(E)	15	#5	10'-3"	□
H143(E)	6	#6	29'-2"	□
H144(E)	4	#6	27'-0"	□
H145(E)	4	#6	19'-2"	□
H146(E)	4	#6	12'-4"	□
H147	192	#4	9'-0"	□
H148	672	#4	9'-7"	□
H149	106	#4	4'-9"	□
H150(E)	40	#4	9'-0"	□
H151(E)	141	#4	9'-7"	□
H140	84	#11	13'-7"	□
S140(E)	8	#5	11'-10"	□
S141(E)	8	#5	12'-8"	□
S142(E)	5	#5	15'-5"	□
S143(E)	5	#5	12'-5"	□
S144(E)	5	#5	15'-8"	□
S145(E)	4	#5	16'-2"	□
S146(E)	34	#4	9'-2"	□
V140	34	#9	20'-10"	□
V141	25	#6	19'-8"	□
V142	16	#9	18'-3"	□
V140	84	#11	55'-0"	□
V141	48	#11	29'-10"	□
V142	14	#11	25'-6"	□
V143	14	#6	19'-6"	□
W140	20	#5	26'-2"	□
W141	12	#6	26'-8"	□
Class X Concrete	Cu. Yd		9900	
Reinforcement Bars	Pounds		42,330	
Reinf. Bars (Epoxy Coated)	Pounds		4,710	
Metal Shell Piles 14"	Lin. Ft.		1400	
Structure Excavation	Cu. Yd		165	
Bridge Seat Sealer	L. Sum		1	



PILE DATA

TYPE	14" Metal Shell (14" nail)
CAPACITY	53 Ton
EST. LENGTH	40'
NO. REQUIRED	35

REVISIONS

NO.	BY	DATE

NOTES:

- All edges shall have 3/4" chamfer unless noted otherwise.
- For Sections B-B, & C-C See Sheet 66.
- Steps shall be poured monolithically with pier cap.
- Space reinforcement in cap to miss anchor bolts.
- Bars designated (E) shall be epoxy coated.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIKE COUNTY
FA RTE 408
SEC. 75-3VHB-1
STA 974+71.36
PIER NO 4-WB.

SCALE NONE JOB NO. 8466-02

CMT
CRAWFORD MURPHY & TILLY INC.
SPRINGFIELD, ILLINOIS

DESIGNED BY R.J.K.
DRAWN BY G.L.D.
CHECKED BY M.W.W.
APPROVED BY R.J.K.

DATE SHEET 72 OF 114 SHEETS

BILL OF MATERIAL - SN 075-0099 PIER 4

ITEM	UNIT	QUANTITY
CONCRETE SEALER	SQ. FT.	660

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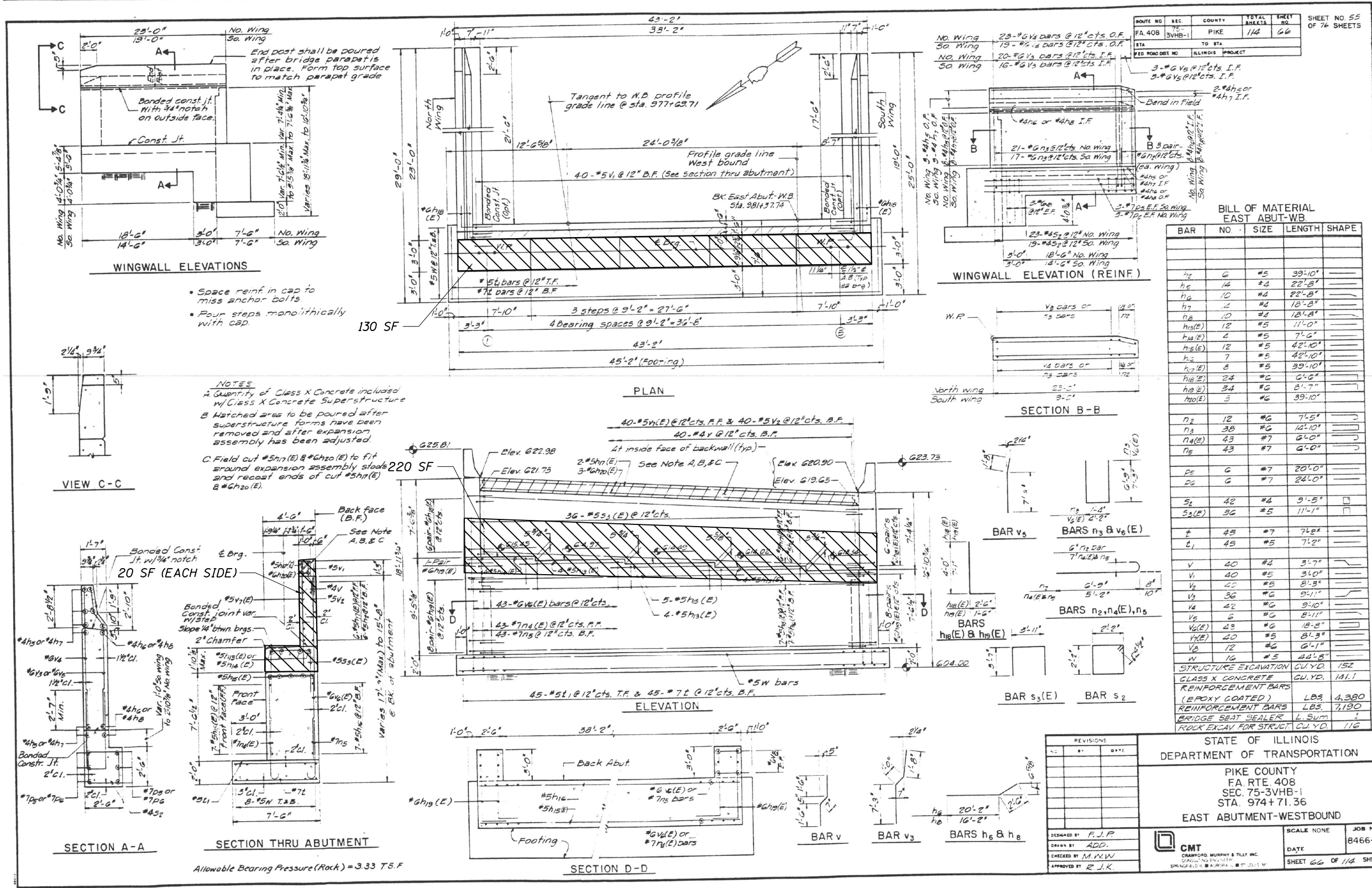
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PLOT DATE = 10/6/2020	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**PIER 4 SEALING PLAN
SN 075-0099**

SCALE: SHEET 6 OF 7 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72,745	(75-3,123)BC(75,86)BJR-2,BC	PIKE	30	21
CONTRACT NO. 72M42			ILLINOIS FED. AID PROJECT	



BILL OF MATERIAL EAST ABUT-WB

BAR	NO	SIZE	LENGTH	SHAPE
h2	6	#5	39'-10"	
h5	14	#4	22'-8"	
h6	10	#4	22'-8"	
h7	2	#4	18'-8"	
h8	10	#4	18'-8"	
h3(E)	12	#5	11'-0"	
h4(E)	4	#5	7'-6"	
h5(E)	12	#5	42'-10"	
h6	7	#5	42'-10"	
h7(E)	6	#5	39'-10"	
h8(E)	24	#6	6'-6"	
h9(E)	34	#6	8'-7"	
h10(E)	3	#6	39'-10"	
n2	12	#6	7'-5"	
n3	38	#6	14'-10"	
n4(E)	43	#7	6'-0"	
n5	43	#7	6'-0"	
p5	6	#7	20'-0"	
p6	6	#7	26'-0"	
s2	42	#4	9'-5"	
s3(E)	36	#5	11'-1"	
v	45	#7	7'-0"	
v1	45	#5	7'-2"	
v2	40	#4	3'-7"	
v3	40	#5	3'-0"	
v4	40	#5	8'-3"	
v5	36	#6	9'-1"	
v6	42	#6	9'-10"	
v7	6	#6	8'-11"	
v8(E)	43	#6	18'-8"	
v9(E)	40	#5	8'-9"	
v10	12	#6	6'-1"	
w	16	#5	44'-8"	

STRUCTURE EXCAVATION CU.YD. 152
 GLASS X CONCRETE CU.YD. 181.1
 REINFORCEMENT BARS (EPOXY COATED) LBS. 4,380
 REINFORCEMENT BARS LBS. 7,180
 BRIDGE SEAT SEALER L.SUM. 1
 ROCK EXCAV FOR STRUCT. CU.YD. 116

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PIKE COUNTY
 FA RTE. 408
 SEC. 75-3VHB-1
 STA. 974+71.36

EAST ABUTMENT-WESTBOUND

SCALE NONE JOB NO. 8466-02
 DATE SHEET 66 OF 114 SHEETS

DESIGNED BY: F.J.P.
 DRAWN BY: ADD.
 CHECKED BY: M.H.W.
 APPROVED BY: R.J.K.

CMT
 CRAWFORD MURPHY & TILLY, INC.
 2100 N. WINDYBUSH BLVD.
 SPRINGFIELD, ILLINOIS 62722

BILL OF MATERIAL - SN 075-0099 E. ABUT.

ITEM	UNIT	QUANTITY
CONCRETE SEALER	SQ. FT.	390

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PLOT DATE = 10/6/2020	CHECKED -	REVISED -
	DATE -	REVISED -

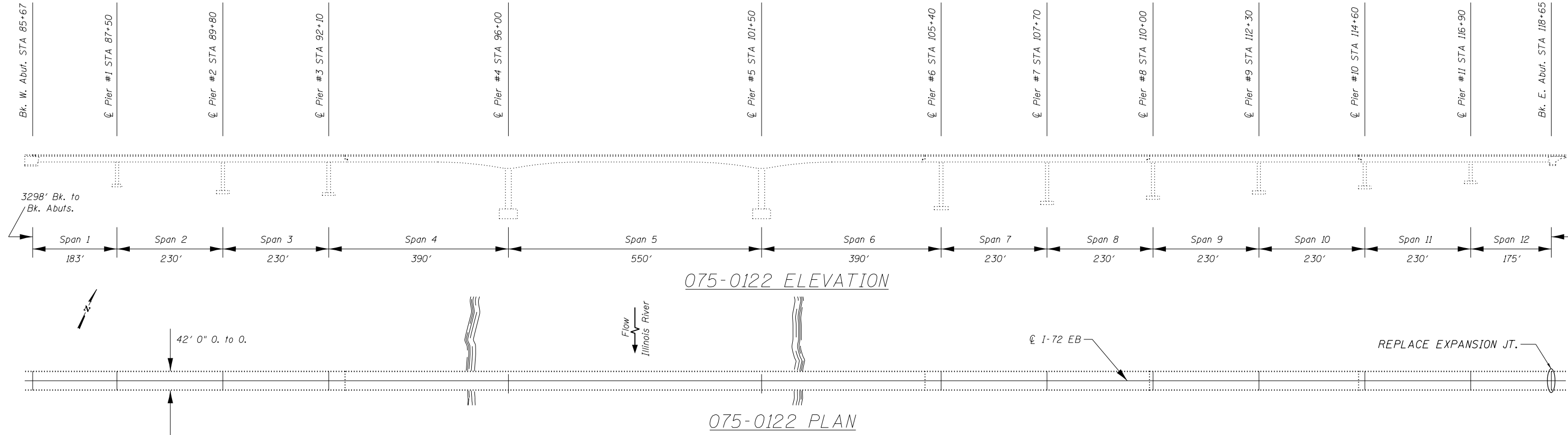
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

EAST ABUTMENT SEALING PLAN
 SN 075-0099

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

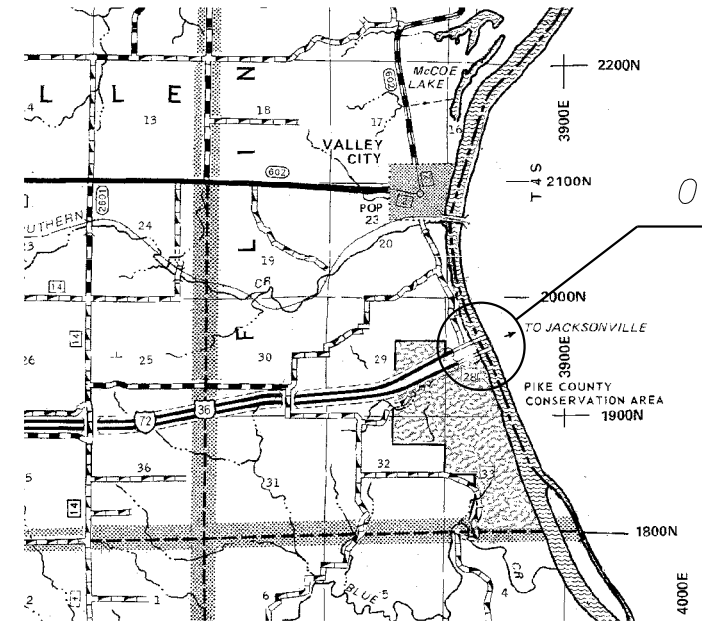
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72,745	(75-3,123)BC(75,86)BJR-2,BC	PIKE	30	22
CONTRACT NO. 72M42				
ILLINOIS FED. AID PROJECT				

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TOTAL BILL OF MATERIAL (075-0122)

ITEM	UNIT	QUANTITY
Concrete Removal	Cu. Yd.	1.4
Concrete Superstructure	Cu. Yd.	1.4
Reinforcement Bars, Epoxy Coated	Pound	260
Bar Splicers	Each	8
Preformed Joint Strip Seal	Foot	42
Concrete Sealer	Sq. Ft.	120
Bridge Washing No. 4	Each	1



LOCATION MAP



Expires 11-30-2022

David Carl Puzey

12/1/2020

STRUCTURE GENERAL NOTES:

ALL STRUCTURAL STEEL SHALL BE AASHTO M-270 GRADE 36, UNLESS OTHERWISE NOTED.

REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.

PRIOR TO POURING THE NEW CONCRETE DECK, ALL HEAVY OR LOOSE MILL SCALE AND OTHER LOOSE OR POTENTIALLY DETRIMENTAL FOREIGN MATERIAL SHALL BE REMOVED FROM THE SURFACES 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 CONCRETE REMOVAL.

PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING PLANS ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION AND MAKE 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 BID FOR THE WORK.

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 STANDARD SPECIFICATIONS WHEN THE DECK IS POURED AT AN AMBIENT TEMPERATURE OTHER THAN 50°F.

THE ABUTMENT AND DECK SURFACES IN THE AREAS OF EXPANSION JOINT REPLACEMENT SHALL HAVE A TINED FINISH AS PER ARTICLE 420.09(a)(1) OF THE STANDARD SPECIFICATIONS, COST INCLUDED WITH CONCRETE SUPERSTRUCTURE.

CONCRETE SEALER SHALL ONLY BE APPLIED TO THE NEW CONCRETE DECK AND PARAPET SURFACES ADJACENT TO THE PROPOSED EXPANSION JOINTS.

SEE SPECIAL PROVISIONS FOR AREAS OF BRIDGE TO BE WASHED.

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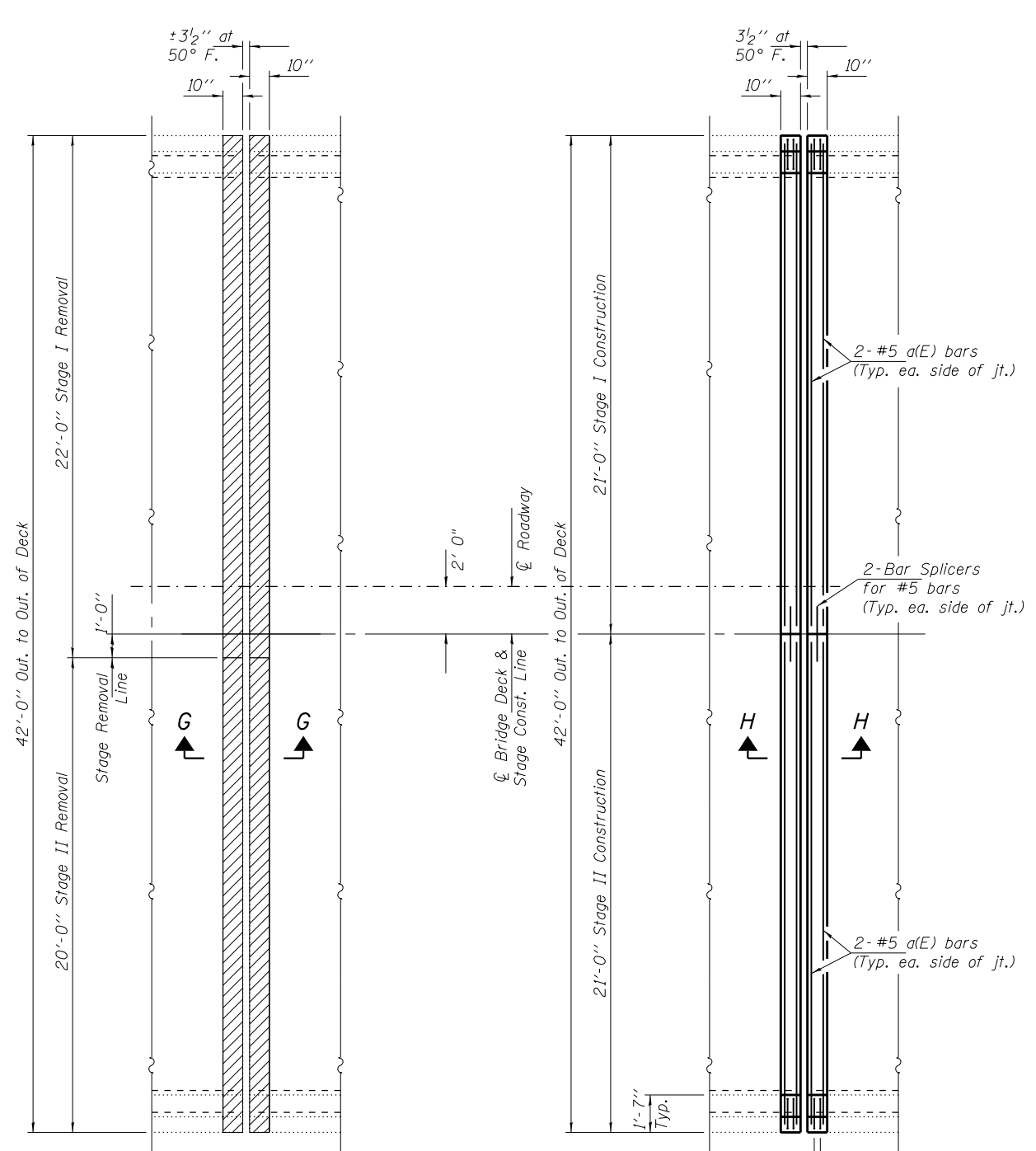
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PLOT DATE = 10/13/2020	CHECKED - JASON JONES	REVISED - _____
	DATE - 8/28/2020	REVISED - _____

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BRIDGE PLAN & ELEVATION
SN 075-0122 (EB)**

SCALE: _____ SHEET 1 OF 4 SHEETS STA. _____ TO STA. _____

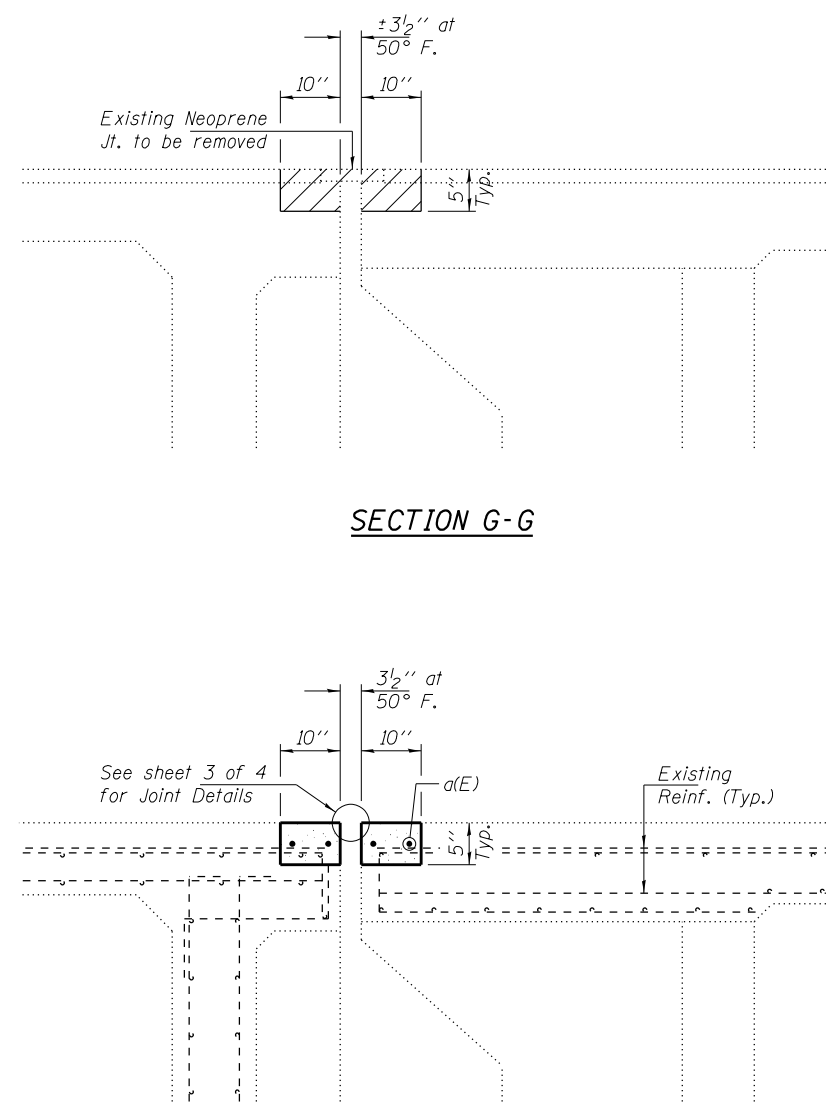
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72,745	(75-3,123)BC(75,86)BJR-2,BC	PIKE	30	23
CONTRACT NO. 72M42			ILLINOIS FED. AID PROJECT	



REMOVAL PLAN AT EAST ABUTMENT

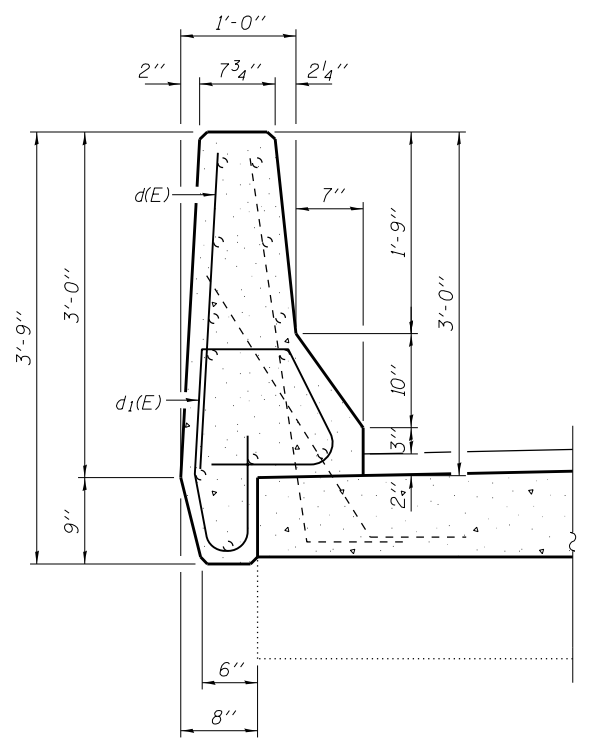
REPLACEMENT PLAN AT EAST ABUTMENT

Notes:
 Hatched areas indicate concrete sections to be removed and replaced. Perimeters of concrete removal areas shall be saw cut 3/4" prior to the removal of concrete.
 Extreme care shall be exercised in the removal of concrete due to the shallow slab depth from the web of the box girder out to the parapet. See sheet 4 of 9 for Parapet Details & d1(E) bars.

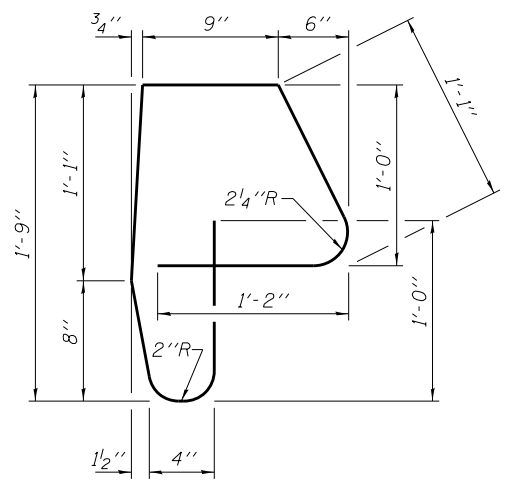


SECTION G-G

SECTION H-H



TYPICAL PARAPET DETAILS



BAR d1(E)

EAST ABUTMENT BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	8	#5	20'-2"	—
d(E)	8	#4	2'-9"	—
d1(E)	8	#5	6'-1"	⊔
Concrete Removal			Cu. Yd.	1.4
Concrete Superstructure			Cu. Yd.	1.4
Reinforcement Bars, Epoxy Coated			Pound	260

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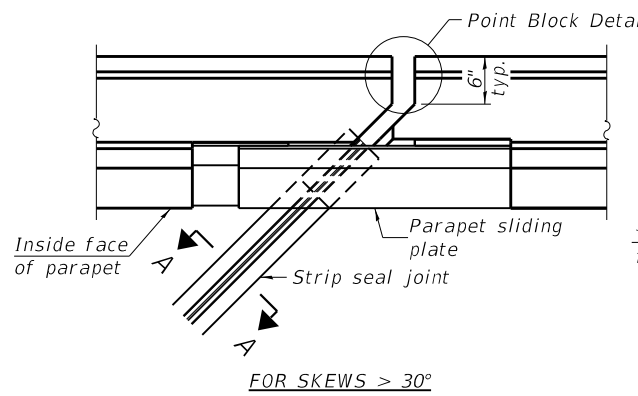
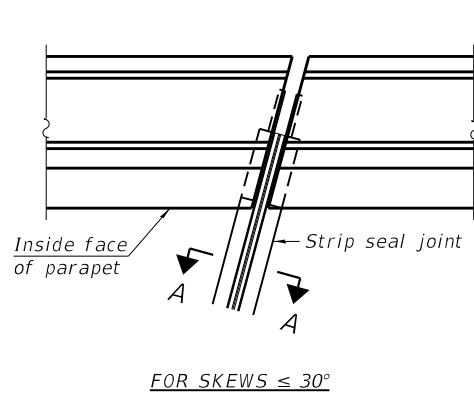
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PLOT DATE = 10/13/2020	DATE - _____	REVISED - _____

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

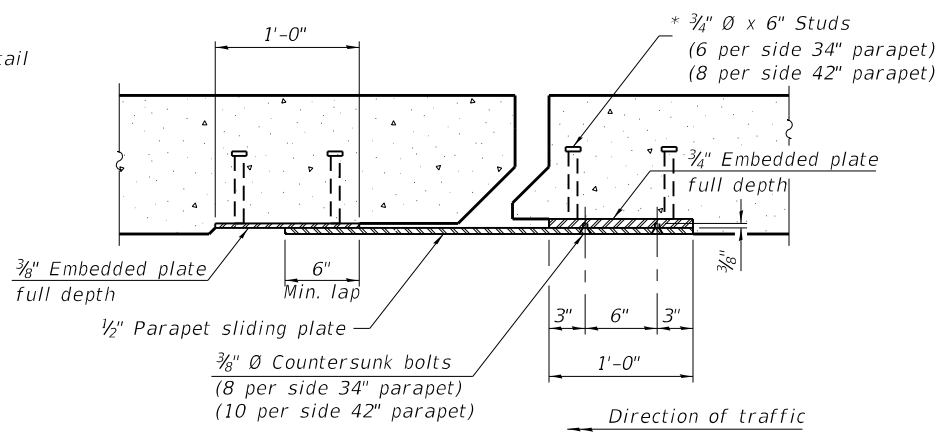
**EAST ABUTMENT JOINT DETAILS
 SN 075-0122 (EB)**

SCALE: _____ SHEET 2 OF 4 SHEETS STA. _____ TO STA. _____

F.A. RTE. 72,745	SECTION (75-3,123)BC(75,86)BJR-2,BC	COUNTY PIKE	TOTAL SHEETS 30	SHEET NO. 24
CONTRACT NO. 72M42			ILLINOIS FED. AID PROJECT	

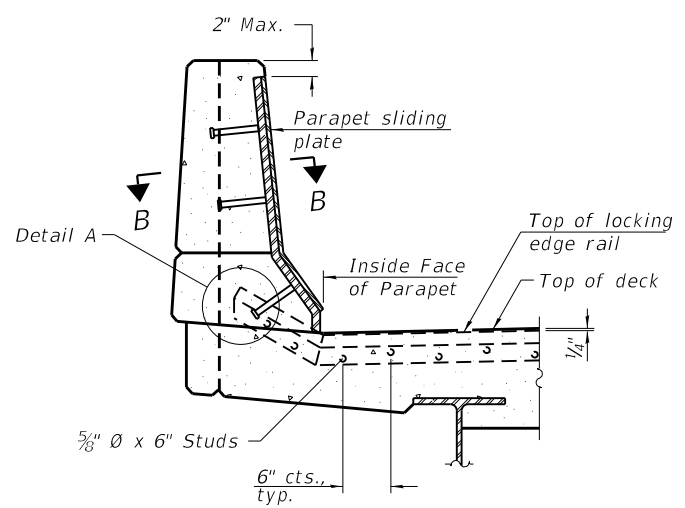


PLAN AT PARAPET



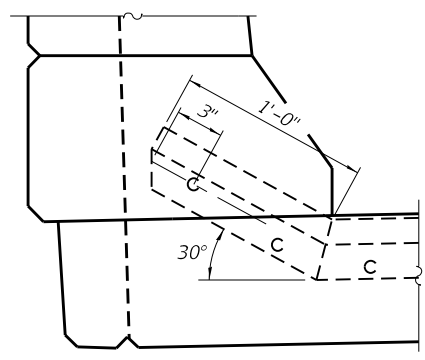
SECTION B-B

Notes:
 The strip seal shall be made continuous and shall have a minimum thickness of $\frac{1}{4}$ ". The configuration of the strip seal shall match the configuration of the locking edge rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.
 The locking edge rails depicted are configured for typical applications and are conceptual only. The actual configuration of the locking edge rails and matching strip seal may vary from manufacturer to manufacturer provided they fit the application and meet the minimum anchorage shown. Flanged edge rails, however, will not be allowed. Locking edge rails may exceed the $4\frac{1}{2}$ " maximum depth provided the anchorage system is revised according to the manufacturer's recommendation.
 The manufacturer's recommended installation methods shall be followed.
 All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.
 The Maximum space between locking edge rail segments shall be $\frac{3}{16}$ " and sealed with a suitable sealant; however, any rail joint within 10' measured perpendicular to the face of the curb or parapet shall be welded as shown in the locking edge rail splice detail.

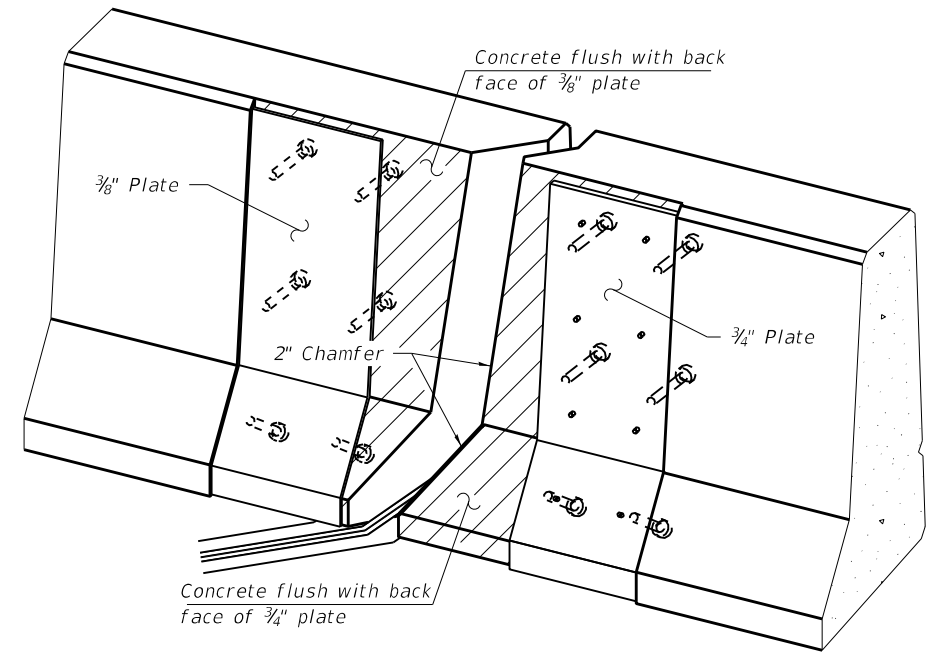


ELEVATION AT PARAPET

(Skews >math>30^\circ</math> shown. Skews $\le 30^\circ</math> similar except as shown in plan view.)$

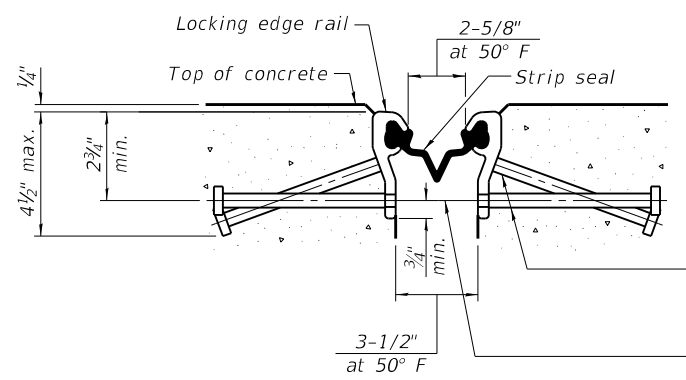


DETAIL A



TRIMETRIC VIEW
 (Showing embedded plates only)

Cost of parapet sliding plates, embedded plates, and anchorage studs included with Preformed Joint Strip Seal. 34" F-shape barrier shown, 42" F-shape similar as noted. The concrete opening below the strip seal will vary based on the locking edge rail chosen by the Contractor. Deck and parapet lengths shown elsewhere in the plans are dimensioned to the concrete opening, not the joint opening, and are based on the rolled locking edge rail. If the Contractor elects to use a different locking edge rail, dimensional adjustments may be required. One exception to this would be the strip seal joint at the end of the precast bridge approach slab. For these cases the pavement connector length shall be adjusted, not the length of the bridge approach slab.
 Joint opening above locking edge rail to be adjusted as shown on Section A-A to allow joint pour flush with existing edge of concrete deck.

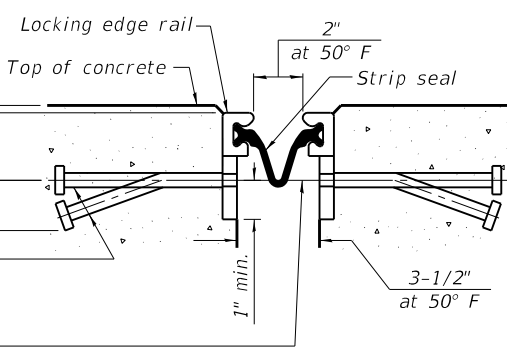


SHOWING ROLLED RAIL JOINT

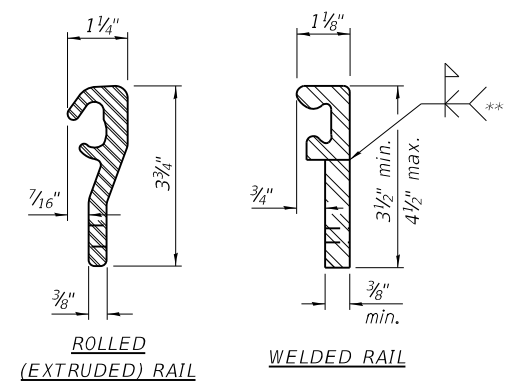
* $\frac{5}{8}$ " ϕ x 6" studs @ 6" cts. (alternate angled/bent studs with horizontal studs)
 $\frac{3}{8}$ " ϕ threaded rods in $\frac{7}{16}$ " ϕ holes at $\pm 4'-0"$ cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.

SECTION A-A

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

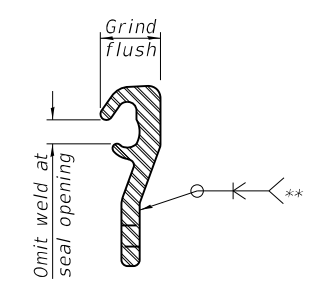


SHOWING WELDED RAIL JOINT



LOCKING EDGE RAILS

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



LOCKING EDGE RAIL SPLICE

The inside of the locking edge rail groove shall be free of weld residue. Rolled rail shown, welded rail similar.

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	42

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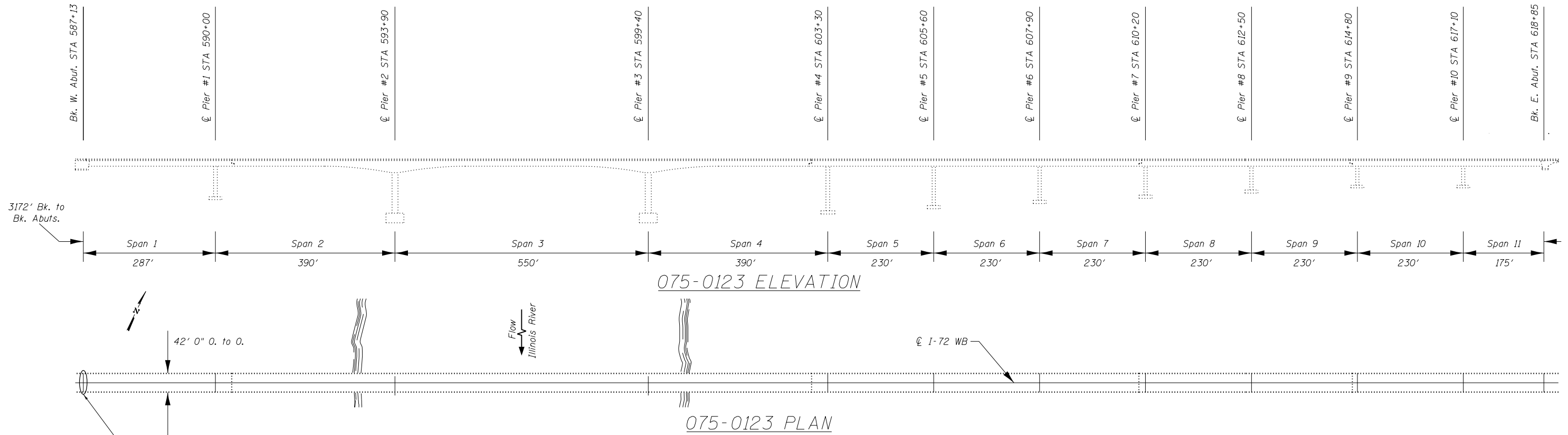
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	DATE - _____	REVISED - _____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PREFORMED JOINT STRIP SEAL
STRUCTURE NO. 075-0122 (EB)

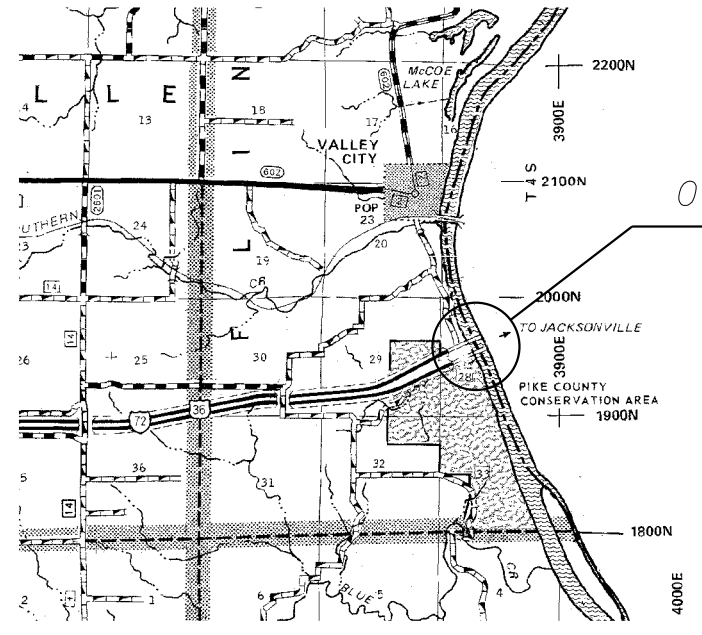
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F.A. RTE. 72,745	SECTION (75-3,123)BC(75,86)BJR-2,BC	COUNTY PIKE	TOTAL SHEETS 30	SHEET NO. 25
ILLINOIS FED. AID PROJECT			CONTRACT NO. 72M42	



TOTAL BILL OF MATERIAL (075-0123)

ITEM	UNIT	QUANTITY
Concrete Removal	Cu. Yd.	2.0
Concrete Superstructure	Cu. Yd.	2.0
Reinforcement Bars, Epoxy Coated	Pound	240
Bar Splicers	Each	8
Preformed Joint Strip Seal	Foot	42
Concrete Sealer	Sq. Ft.	120
Bridge Washing No. 5	Each	1



LOCATION MAP



Expires 11-30-2022
David Carl Puzey
 12/1/2020

STRUCTURE GENERAL NOTES:

ALL STRUCTURAL STEEL SHALL BE AASHTO M-270 GRADE 36, UNLESS OTHERWISE NOTED.

REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.

PRIOR TO POURING THE NEW CONCRETE DECK, ALL HEAVY OR LOOSE MILL SCALE AND OTHER LOOSE OR POTENTIALLY DETRIMENTAL FOREIGN MATERIAL SHALL BE REMOVED FROM THE SURFACES 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 CONCRETE REMOVAL.

PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING PLANS ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION AND MAKE 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 BID FOR THE WORK.

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.

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THE ABUTMENT AND DECK SURFACES IN THE AREAS OF EXPANSION JOINT REPLACEMENT SHALL HAVE A TINED FINISH AS PER ARTICLE 420.09(e)(1) OF THE STANDARD SPECIFICATIONS. COST INCLUDED WITH CONCRETE SUPERSTRUCTURE.

CONCRETE SEALER SHALL ONLY BE APPLIED TO THE NEW CONCRETE DECK AND PARAPET SURFACES ADJACENT TO THE PROPOSED EXPANSION JOINTS.

SEE SPECIAL PROVISIONS FOR AREAS OF BRIDGE TO BE WASHED.

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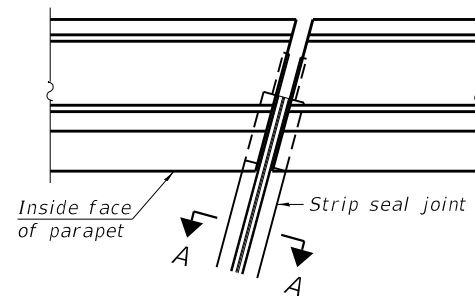
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PLOT DATE = 10/13/2020	CHECKED - JASON JONES	REVISED - _____
	DATE - 8/28/2020	REVISED - _____

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**BRIDGE PLAN & ELEVATION
 SN 075-0123 (WB)**

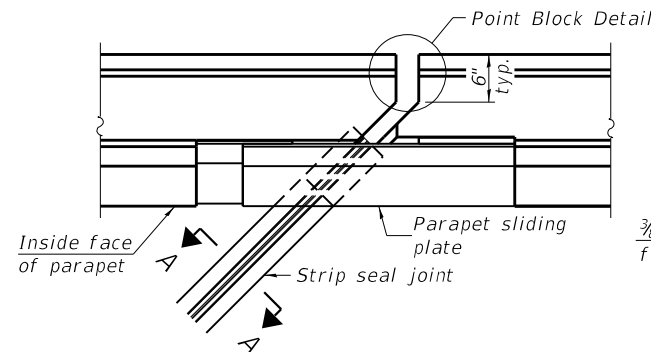
SCALE: _____ SHEET 1 OF 4 SHEETS STA. _____ TO STA. _____

F.A. RTE. = 72,745	SECTION = (75-3,123)BC(75,86)BJR-2,BC	COUNTY = PIKE	TOTAL SHEETS = 30	SHEET NO. = 27
CONTRACT NO. 72M42			ILLINOIS FED. AID PROJECT	

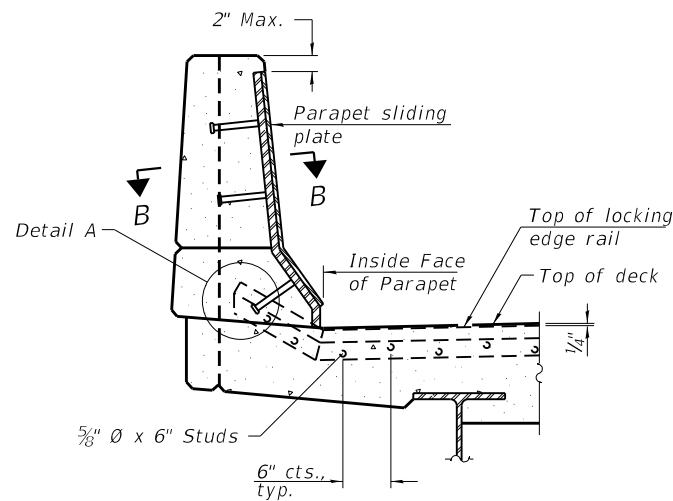


FOR SKEWS $\leq 30^\circ$

PLAN AT PARAPET

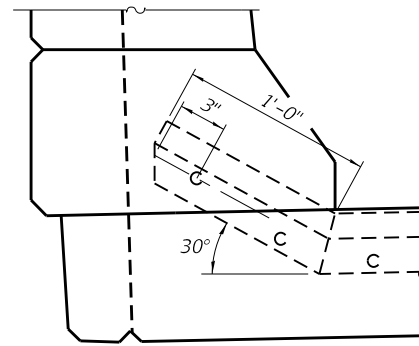


FOR SKEWS $> 30^\circ$

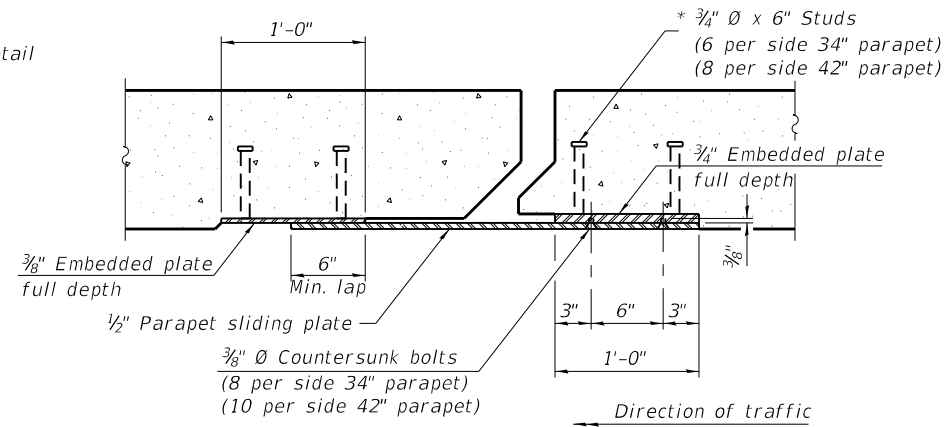


ELEVATION AT PARAPET

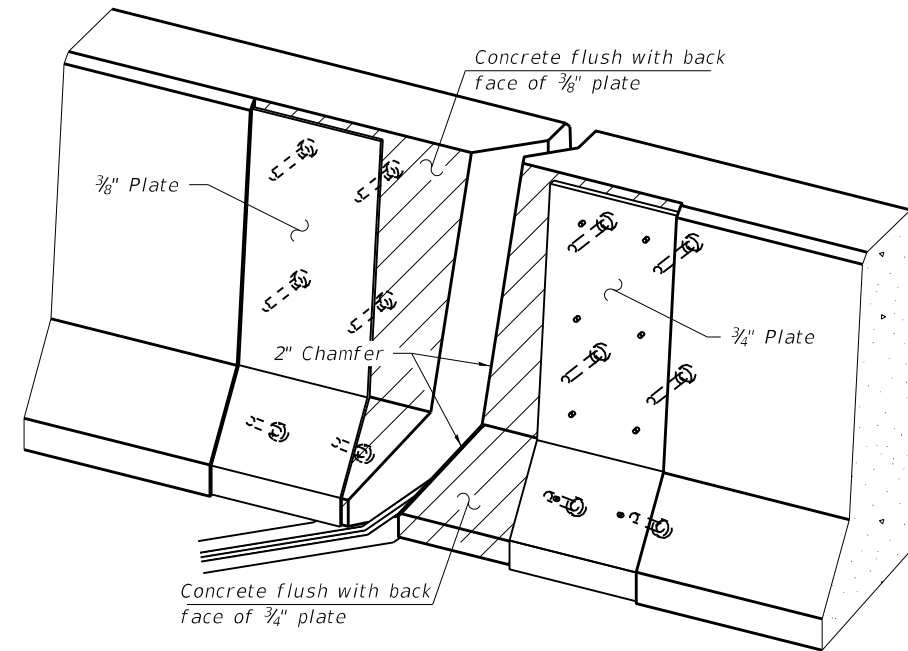
(Skews $> 30^\circ$ shown. Skews $\leq 30^\circ$ similar except as shown in plan view.)



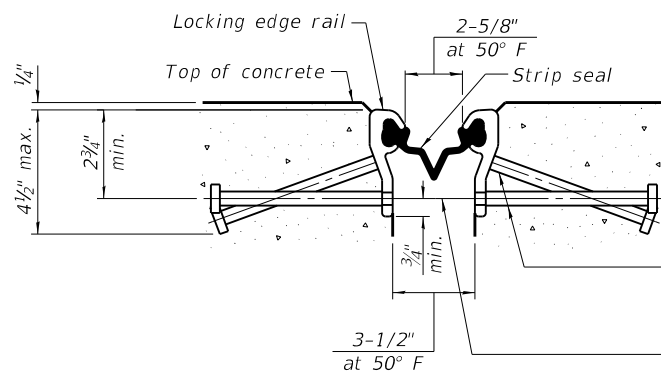
DETAIL A



SECTION B-B



TRIMETRIC VIEW
(Showing embedded plates only)



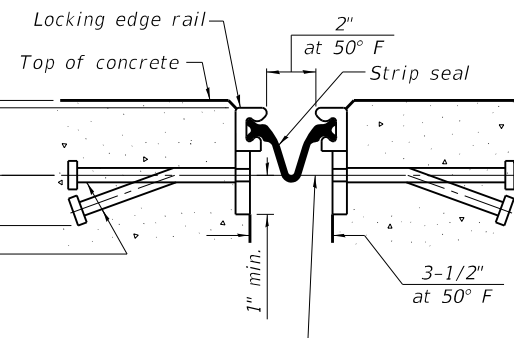
SHOWING ROLLED RAIL JOINT

* $5/8$ " ϕ x 6" studs @ 6" cts. (alternate angled/bent studs with horizontal studs)

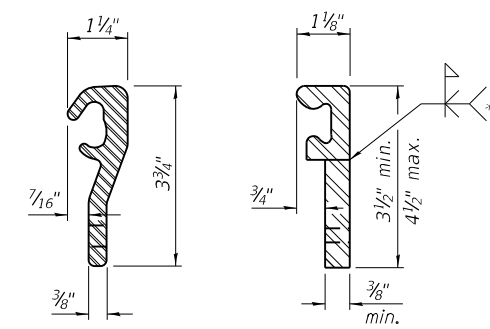
$3/8$ " ϕ threaded rods in $7/16$ " ϕ holes at ± 4 "-0" cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.

SECTION A-A

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



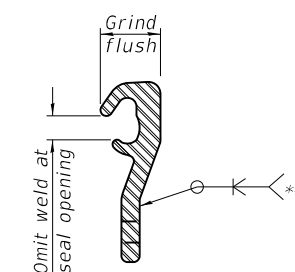
SHOWING WELDED RAIL JOINT



ROLLED (EXTRUDED) RAIL WELDED RAIL

LOCKING EDGE RAILS

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



LOCKING EDGE RAIL SPLICE

The inside of the locking edge rail groove shall be free of weld residue. Rolled rail shown, welded rail similar.

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	42

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. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.

The locking edge rails depicted are configured for typical applications and are conceptual only. The actual configuration of the locking edge rails and matching strip seal may vary from manufacturer to manufacturer provided they fit the application and meet the minimum anchorage shown. Flanged edge rails, however, will not be allowed. Locking edge rails may exceed the 41#2" maximum depth provided the anchorage system is revised according to the manufacturer's recommendation.

The manufacturer's recommended installation methods shall be followed.

All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.

The Maximum space between locking edge rail segments shall be $3/16$ " and sealed with a suitable sealant; however, any rail joint within 10' measured perpendicular to the face of the curb or parapet shall be welded as shown in the locking edge rail splice detail.

Cost of parapet sliding plates, embedded plates, and anchorage studs included with Preformed Joint Strip Seal.

34" F-shape barrier shown, 42" F-shape similar as noted.

The concrete opening below the strip seal will vary based on the locking edge rail chosen by the Contractor. Deck and parapet lengths shown elsewhere in the plans are dimensioned to the concrete opening, not the joint opening, and are based on the rolled locking edge rail. If the Contractor elects to use a different locking edge rail, dimensional adjustments may be required. One exception to this would be the strip seal joint at the end of the precast bridge approach slab. For these cases the pavement connector length shall be adjusted, not the length of the bridge approach slab.

Joint opening above locking edge rail to be adjusted as shown on Section A-A to allow joint pour flush with existing edge of concrete deck.

USER NAME = dudleybm	DESIGNED - _____	REVISED - _____
DRAWN - _____	REVISED - _____	REVISED - _____
PLOT SCALE = 100.0000' / in.	CHECKED - _____	REVISED - _____
PLOT DATE = 10/13/2020	DATE - _____	REVISED - _____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PREFORMED JOINT STRIP SEAL
STRUCTURE NO. 075-0123 (WB)

SCALE: _____ SHEET 3 OF 4 SHEETS STA. _____ TO STA. _____

F.A. RTE. 72,745	SECTION (75-3,123)BC(75,86)BJR-2,BC	COUNTY PIKE	TOTAL SHEETS 30	SHEET NO. 29
ILLINOIS FED. AID PROJECT			CONTRACT NO. 72M42	

