

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROPOSED
HIGHWAY PLANS

FAI ROUTE 74 /(I-74)
SECTION (92-12B)I
PROJECT ACNHPP-0074(322)
THIN CONCRETE OVERLAY VERMILION RIVER
SOUTH OF DANVILLE
VERMILION COUNTY

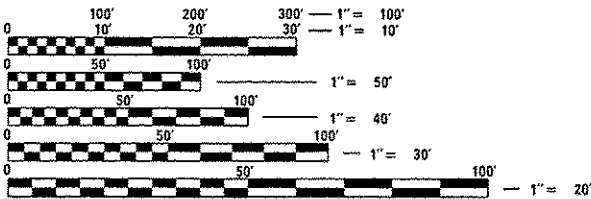
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12B)I	VERMILION	51	1
		ILLINOIS	CONTRACT NO. 70B71	

FOR INDEX OF SHEETS, SEE SHEET NO. 2
FOR SUMMARY OF QUANTITIES, SEE SHEET NO. 4-7

CURRENT
TRAFFIC DATA
STR. 092-0015

2016 ADT = 13,500
2026 ADT = 14,200
PU+PC % = 71.7
SU % = 3.8
MU% = 24.4

DESIGN DESIGNATION
FEDERAL-AID INTERSTATE



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.

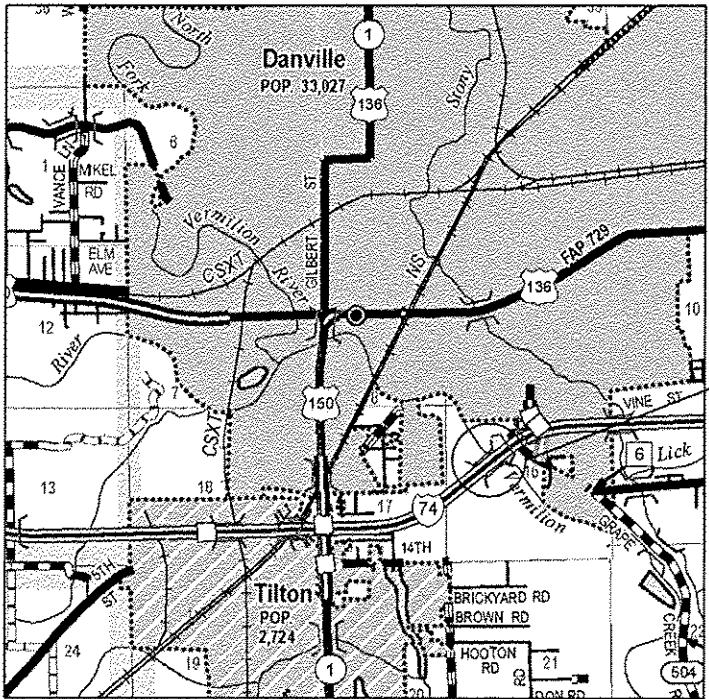
J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

TOWNSHIP: DANVILLE

PROJECT ENGINEER: TIM BRANDENBURG
217-465-4181

CONTRACT NO. 70B71

C-95-008-16



EXISTING S.N. 092-0015
F.A.I. 74 (I-74)
VERMILION RIVER
STATION 1992+54
BRIDGE DECK REPAIR

GROSS LENGTH = 1,500.00 FT. = 0.284 MILE
NET LENGTH = 1,500.00 FT. = 0.284 MILE



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
SUBMITTED October 9 2016
James A. James
REGION THREE ENGINEER
Dee 9 2016
Maureen M. Addis PE
ENGINEER OF DESIGN AND ENVIRONMENT
Dee 9 2016
Omer Osman PE
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

INDEX OF SHEETS

SHEET NO.	ITEM
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2	INDEX OF SHEETS
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LIST OF HIGHWAY STANDARDS

STANDARD NO.	DESCRIPTION
000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND FOOT
630001-(1)	STEEL PLATE BEAM GUARDRAIL
631031-15	TRAFFIC BARRIER TERMINAL, TYPE 6
642001-02	SHOULDER RUMBLE STRIPS, 16 INCH
701101-05	OFF-ROAD OPERATIONS, MULTILANE, 15' TO 24" FROM EDGE OF PAVEMENT
701400-09	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701402-12	LANE CLOSURE, FREEWAY/EXPRESSWAY WITH BARRIER
701408-11	LANE CLOSURE, FREEWAY/EXPRESSWAY DAY OPERATIONS ONLY
701411-09	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEED > = 45 MPH
701426-09	LANE CLOSURE, MULTILANE, INTERM. OR MOVING OPER. FOR SPEEDS > = 45 MPH
701901-06	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
780001-05	TYPICAL PAVEMENT MARKINGS
781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
782006	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAIL

GENERAL NOTES

G.N.-100

ENGLISH UNITS OF MEASUREMENT SHALL GOVERN OVER AND SUPERSEDE ANY METRIC UNITS SHOWN IN THIS CONTRACT. WHERE INCLUDED, METRIC UNITS ARE FOR INFORMATION ONLY.

G.N.-105.07

EXISTING STATE-OWNED AND MAINTAINED UTILITY LINES ARE SHOWN ON THE PLANS TO INDICATE THEIR PRESENCE AND APPROXIMATE LOCATION. THE CONTRACTOR SHALL NOTIFY THE DISTRICT OPERATIONS ENGINEER TWO WEEKS PRIOR TO COMMENCING ANY EXCAVATION IN THE VICINITY OF THESE LINES. THE STATE WILL THEN LOCATE AND MARK THE HORIZONTAL LOCATIONS OF THE LINES AND PROVIDE ANY AVAILABLE INFORMATION AS TO THEIR DEPTH. SHOULD ANY OF THE LINES BE DAMAGED BY THE CONTRACTOR'S OPERATION, THE CONTRACTOR SHALL REPAIR THEM TO THE SATISFACTION OF THE ENGINEER AND AT NO COST TO THE STATE.

ALSO THERE MAY BE UTILITIES PRESENT WHICH WERE INSTALLED BY THE STATE BUT ARE MAINTAINED BY OTHERS (CITY, TOWN, ETC.) THE APPROXIMATE LOCATIONS OF THESE LINES ARE ALSO SHOWN ON THE PLANS ALONG WITH THE NAME OF THE MAINTAINING AGENCY. THE CONTRACTOR SHALL COORDINATE THE LOCATING OF THESE LINES WITH THE LOCAL AGENCY PRIOR TO COMMENCING ANY EXCAVATION OR BORING IN THEIR VICINITY. SHOULD THESE LINES DAMAGED BY THE CONTRACTOR'S OPERATIONS, THE CONTRACTOR SHALL REPAIR THEM TO THE SATISFACTION OF, AND AT NO COST TO, THE LOCAL AGENCY AND THE STATE.

G.N.-105.09A

ALL ELEVATIONS SHOWN IN THE PLANS ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988. (NAVD 88)

G.N.-406

THE QUANTITIES INCLUDED IN THE PLANS FOR HOT-MIX ASPHALT RESURFACING ARE INTENDED TO GIVE THE COVERAGE SHOWN ON THE TYPICAL CROSS SECTIONS. IT IS NOT INTENDED TO INCREASE THE THICKNESS OF THE HOT-MIX ASPHALT MIXTURE IN ORDER TO USE ALL OF THE QUANTITIES INCLUDED IN THE CONTRACT.

G.N.-406H

MIXTURE REQUIREMENTS

THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

Location	FAI 74	FAI 74
Mixture Use	Polymer Surface	Shoulder
AC/PG	SBS PG 70-22	PG 64-22
Design Air Voids	4.0% @ Ndes=90	4.0% @ Ndes=90
Mix Comp (Gradation)	IL 9.5	IL 9.5
Friction Aggregate	Mix D	Mix C
Mixture Weight	112	112
Quality Management Program	QC/QA	QC/QA
Sublot Size	N.A.	N.A.

G.N.-482

ALL LOW ESAL MIXTURE PLACED AS HOT-MIX ASPHALT SHOULDERS SHALL BE COMPACTED TO 94.0 – 98.4 PERCENT OF THE MAXIMUM THEORETICAL DENSITY. THIS REQUIREMENT SHALL APPLY TO IL 9.5L GRADATION MIXES. THIS MAXIMUM DENSITY SHALL BE DETERMINED FROM THE MOVING AVERAGE OF FOUR TESTS AS IN OTHER QC/QA TESTING. A NUCLEAR GAUGE DENSITY/CORE CORRELATION SHALL BE PERFORMED FOR THE IL 9.5L USING STANDARD CORRELATION PROCEDURES WHEN MORE THAN 3,000 TONS ARE TO BE PLACED.

G.N.-609

PRIOR TO ROUTING TRAFFIC ONTO THE SHOULDERS AS SHOWN IN THE STAGING PLANS, THE CONTRACTOR SHALL SECURE THE GRATINGS ON SHOULDER INLETS AS DIRECTED BY THE ENGINEER. THIS WORK WILL BE PAID FOR ACCORDING TO ARTICLE 109.04.

G.N.-781

RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH STANDARD 781001, AND THE DETAILS SHOWN IN THE PLANS. IF THERE IS ANY DISCREPANCY BETWEEN THE STANDARD AND THE DETAILS IN THE PLANS, THE DETAILS IN THE PLANS SHALL GOVERN. THE FINAL PAVEMENT MARKINGS SHALL BE IN PLACE PRIOR TO PLACING THE RAISED REFLECTIVE PAVEMENT MARKERS AND THE RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED MIDWAY IN THE 30 FOOT (9 m) SPACE BETWEEN THE DASHED CENTERLINE STRIPES (WHEN APPLICABLE).

SEE R.E. FILE FOR CALCULATIONS AND SCHEDULES.

THERE ARE NO COMMITMENTS ASSOCIATED WITH THIS PROJECT.

FILE NAME =	USER NAME = shovleres	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INDEX OF SHEETS; HIGHWAY STANDARDS & GENERAL NOTES				F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
p:\1\IL084EBID\INTEG.illinois.gov\DOT\Documents\1001 Offices\District 5\Projects\09781\Drawings\Structures\0978071.sht-Index		CHECKED -	REVISED -						74	(92-128)1	VERMILION	51	2
#MODELNAME#	PLOT SCALE = 48.0000' / in.	DATE -	REVISED -						CONTRACT NO. 70871				
	PLOT DATE = 10/4/2016								ILLINOIS FED. AID PROJECT				
		SCALE:			SHEET 1 OF 5 SHEETS			STA. TO STA.					

SUMMARY OF QUANTITIES

VERMILION CO.
I-74
URBAN INTERSTATE
BRIDGE DECK REPAIR
S.N. 092-0015
90% STATE / 10% FEDERAL
0014

CODE NO.	ITEM	UNIT	QUANTITY
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	1169.0
40603545	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N90	TON	125.0
44000161	HOT-MIX ASPHALT SURFACE REMOVAL, 3"	SQ YD	1325.0
48203100	HOT-MIX ASPHALT SHOULDERS	TON	223.0
50102400	CONCRETE REMOVAL	CU YD	42.8
50300255	CONCRETE SUPERSTRUCTURE	CU YD	48.3
X5030250	BRIDGE DECK GROOVING (LONGITUDINAL)	SQ YD	2384.0
50300300	PROTECTIVE COAT	SQ YD	114.0
50500405	FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	740.0
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	8000.0
50800515	BAR SPLICERS	EACH	62.0
50800530	MECHANICAL SPLICERS	EACH	292.0
52000110	PREFORMED JOINT STRIP SEAL	FOOT	97.0
63302700	REMOVE AND REERECT TRAFFIC BARRIER TERMINALS, TYPE 6	EACH	3.0

* SPECIALTY ITEM

SUMMARY OF QUANTITIES

			VERMILION CO.
			I-74
			URBAN INTERSTATE
			BRIDGE DECK REPAIR
			S.N. 092-0015
			90% STATE / 10% FEDERAL
			0014
CODE	ITEM	UNIT	QUANTITY
NO.			
64200116	SHOULDER RUMBLE STRIPS, 16 INCH	FOOT	1611.0
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	12.0
67100100	MOBILIZATION	LSUM	1.0
70100207	TRAFFIC CONTROL AND PROTECTION, STANDARD 701402	EACH	1.0
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	1.0
70100700	TRAFFIC CONTROL AND PROTECTION, STANDARD 701406	LSUM	1.0
70400100	TEMPORARY CONCRETE BARRIER	FOOT	1162.5
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	1162.5
70600250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	1.0
70600350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	1.0
* 78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	3830.0
* 78009008	MODIFIED URETHANE PAVEMENT MARKING - LINE 8"	FOOT	400.0
* 78009012	MODIFIED URETHANE PAVEMENT MARKING - LINE 12"	FOOT	65.0
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	12.0

* SPECIALTY ITEM

SUMMARY OF QUANTITIES

VERMILION CO.
I-74
URBAN INTERSTATE
BRIDGE DECK REPAIR
S.N. 092-0015
90% STATE / 10% FEDERAL
0014

CODE NO.	ITEM	UNIT	QUANTITY
* 78100105	RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)	EACH	20.0
* 78200010	BARRIER WALL REFLECTORS, TYPE B	EACH	16.0
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	12.0
X0931400	INLET BOXES TO BE ADJUSTED (SPECIAL)	EACH	1.0
X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	1176.0
X7010410	SPEED DISPLAY TRAILER	CAL MO	7.0
X7015005	CHANGEABLE MESSAGE SIGN	CAL DA	21.0
* X7030078	GROOVING FOR RECESSED PAVEMENT MARKING 13"	FOOT	65.0
X7200201	WIDTH RESTRICTION SIGNING	LSUM	1.0
* X7830070	GROOVING FOR RECESSED PAVEMENT MARKING 5"	FOOT	3830.0
* X7830076	GROOVING FOR RECESSED PAVEMENT MARKING 9"	FOOT	400.0
Z0001903	STRUCTURAL STEEL REMOVAL	POUND	710.0
Z0006014	BRIDGE DECK LATEX CONCRETE OVERLAY, 2 1/2 INCHES	SQ YD	3381.0
Z0012130	BRIDGE DECK SCARIFICATION 3/4"	SQ YD	3381.0

* SPECIALTY ITEM

753 150

FILE NAME *	USER NAME * shawleros	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES				F.A.I. RATE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
p:\IL084EB010\INTERILLINOIS.gov\FWID007\Documents\DOT Office\District 5\Projects\05770\DRAWING\DATA\Structures\0570871.sht-index		REDESIGNED -	REVISED -		74	(92-12B)	VERMILION	51	6				
PLOT SCALE * 40.0000 ' / in.	CHECKED -	REVISED -	CONTRACT NO. 70B71										
PLOT DATE * 10/11/2016	DATE -	REVISED -	ILLINOIS FED. AID PROJECT										
MODELNAME				SCALE:	SHEET 5	OF 5	SHEETS	STA.	TO STA.				

F.A.I. ROUTE 74

A detailed cross-section diagram of a 24-foot wide road. The diagram shows the following components from left to right:

- Left Shoulder:** A dashed line representing the shoulder edge.
- Left Lane:** A 12-foot wide lane with a 1.57% slope. It features a yellow stripe (2'-0" & VAR. from the left edge) and a skip-dash (white) marking (3'-9 3/4" & VAR. from the left edge). The lane surface is labeled "POLYMERIZED BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX 'E', N105 (1 1/2'')".
- Centerline:** A vertical line labeled "EB" at the top.
- Right Lane:** A 12-foot wide lane with a 1.57% slope. It features a white stripe (9'-10" & VAR. OR 6'-0" & VAR. from the centerline) and a skip-dash (white) marking (2'-0" & VAR. from the right edge). The lane surface is labeled "POLYMERIZED BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, IL-19.0, N105 (2 1/4'")".
- Right Shoulder:** A dashed line representing the shoulder edge.

 The diagram also includes labels for "BITUMINOUS SHOULDERS SUPERPAVE (3 1/2'")" on both sides and "AGGREGATE SHOULDERS, TYPE B (WEDGE)" on the right. Slopes are indicated as "MAX. SLOPE: 6%" on both sides of the centerline.

F.A.I. ROUTE 74

CL F.A.I. 74

6'-0" & VAR.

2'-0" & VAR.

3'-9 3/4" & VAR.

3"

MAX. SLOPE: 6%

STRIPE (YELLOW)

12'-0"

CL EB

12'-0"

SKIP-DASH (WHITE)

MATCH EXIST. SLOPE

STRIPE (WHITE)

9'-10" & VAR.
OR 6'-0" & VAR.

2'-0" & VAR.

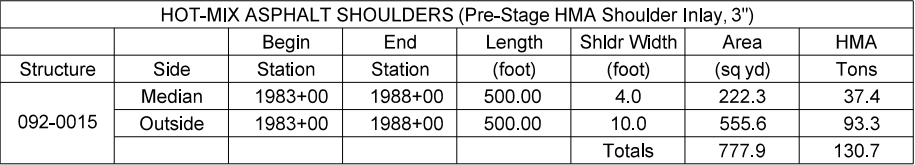
3"

MAX. SLOPE: 6%

EAST DEPARTURE TRANSITION

HMA SURFACE REMOVAL, VARIABLE DEPTH
POLYMERIZED HMA SURFACE MIX D, N90
VARIABLE 0" TO 1 3/4"

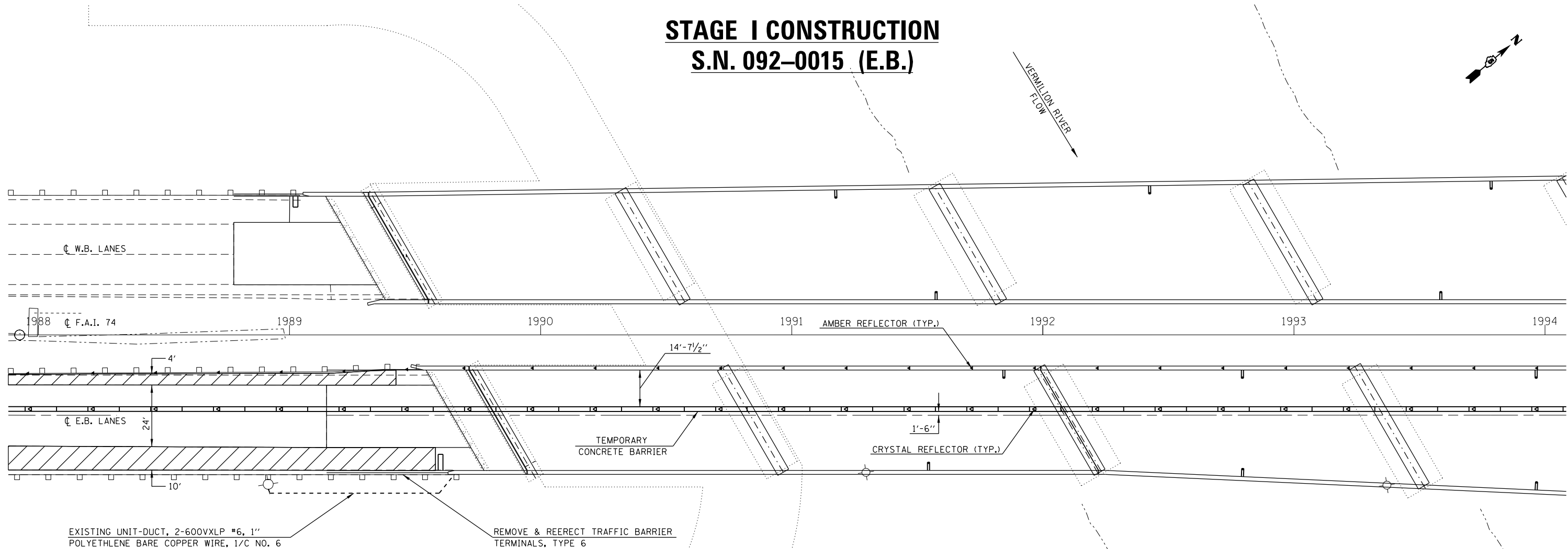
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pw:\IL084EBID\INTEGullinois.gov\PIDOT\Documents\DOT Offices\District 5\Projects\0578\BID\Drawings\Structures\0578B71-sht-Report		REVIEWED -	REVISED -		F.A.I.-74	(92-12B)	VERMILION	51	7				
	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -										
\$MODELNAME\$	PLOT DATE = 10/4/2016	DATE - 8/20/2002	REVISED - 3-31-2016		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	CONTRACT NO. 70B71		
								ILLINOIS FED. AID PROJECT					



	AMBER MONODIRECTIONAL REFLECTOR 25' CTS
	CRYSTAL MONODIRECTIONAL REFLECTOR 25' CTS
	TEMPORARY CONCRETE BARRIER
	VERTICAL PANELS WITH STEADY BURNING LIGHTS ALONG TAPER 25' CTS
	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3

FILE NAME =	USER NAME = showleres	DESIGNED - ESS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGE I CONSTRUCTION				F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEET NO.
p:\IL09-EBID\INTEGRILLinois.gov\PWIDOT\Documents\DOT Offices\District 5\Projects\D570871\DOT Data\Structure\SS\DOT570871-sht-Report-REVISED		CHECKED - TJB	REVISED -		S.N. 092-0015 (EB)				74	(92-12B)I	VERMILION	51 8
PLOT SCALE = 40.0000' / in.	CHECKED - TJB	REVISD -							CONTRACT NO. 70B71			
PLOT DATE = 9/14/2016	DATE - 1/5/2016	REVISED -										
Default					SCALE:	SHEET 2	OF 7 SHEETS	STA.	TO STA.			

STAGE I CONSTRUCTION
S.N. 092-0015 (E.B.)



HOT-MIX ASPHALT SHOULDERS (Pre-Stage HMA Shoulder Inlay, 3")							
Structure	Side	Begin Station	End Station	Length (foot)	Shldr Width (foot)	Area (sq yd)	HMA Tons
092-0015	Median	1988+00	1989+42	142.00	4.0	63.1	10.6
	Outside	1988+00	1989+58	158.00	10.0	175.6	29.5
	Totals					238.7	40.1

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 701406.

FOR ADDITIONAL DETAILS ASSOCIATED WITH TEMPORARY CONCRETE BARRIER, SEE HIGHWAY STANDARD 704001.

VERTICAL PANELS WITH LIGHTS SHALL BE ATTACHED TO THE BARRIER WALL AT 25 FOOT CENTERS AND REFLECTORS SHALL BE ATTACHED TO GUARDRAIL AT 25 FOOT CENTERS. COST TO BE 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.



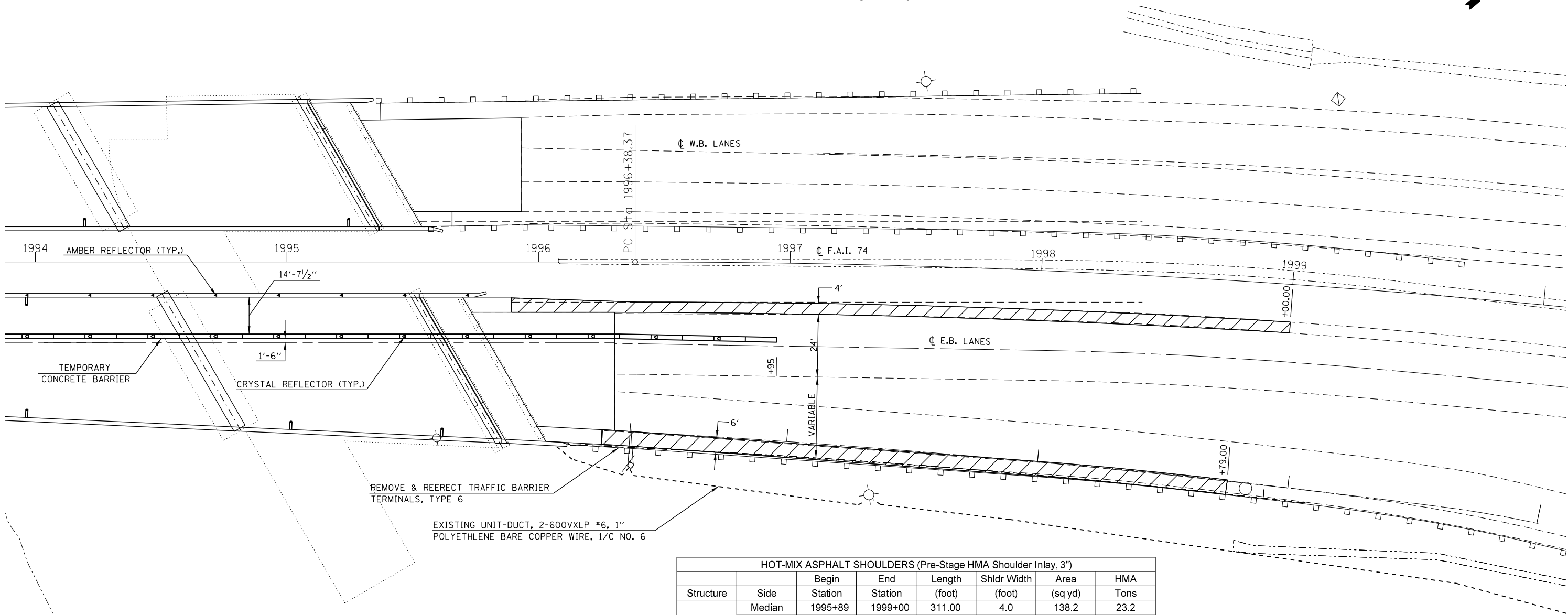
PRE-STAGE HMA SHOULDER INLAY, 3" (HMA SURFACE REMOVAL, 3" & HMA SHOULDERS)

NOTE:
PART OF THE PRE-STAGE SHOULDER RESURFACING MAY BE REMOVED DURING FINAL PAVING TRANSITIONS THAT ARE REQUIRED TO MATCH PROPOSED DECK ELEVATIONS.

SYMBOLS

- AMBER MONODIRECTIONAL REFLECTOR 25' CTS
- CRYSTAL MONODIRECTIONAL REFLECTOR 25' CTS
- TEMPORARY CONCRETE BARRIER
- VERTICAL PANELS WITH STEADY BURNING LIGHTS ALONG TAPER 25' CTS
- IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3

STAGE I CONSTRUCTION
S.N. 092-0015 (E.B.)



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 701406.

FOR ADDITIONAL DETAILS ASSOCIATED WITH TEMPORARY CONCRETE BARRIER, SEE HIGHWAY STANDARD 704001.

VERTICAL PANELS WITH LIGHTS SHALL BE ATTACHED TO THE BARRIER WALL AT 25 FOOT CENTERS AND REFLECTORS SHALL BE ATTACHED TO GUARDRAIL AT 25 FOOT CENTERS. COST TO BE 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.



PRE-STAGE HMA SHOULDER INLAY, 3" (HMA SURFACE REMOVAL, 3" & HMA SHOULDERS)

NOTE:
PART OF THE PRE-STAGE SHOULDER RESURFACING MAY BE REMOVED DURING FINAL PAVING TRANSITIONS THAT ARE REQUIRED TO MATCH PROPOSED DECK ELEVATIONS.

HOT-MIX ASPHALT SHOULDERS (Pre-Stage HMA Shoulder Inlay, 3")							
Structure	Side	Begin Station	End Station	Length (foot)	Shldr Width (foot)	Area (sq yd)	HMA Tons
092-0015	Median	1995+89	1999+00	311.00	4.0	138.2	23.2
	Outside	1996+25	1998+79	254.00	6.0	169.4	28.5
	Totals					307.6	51.7

SYMBOLS

- ◀ AMBER MONODIRECTIONAL REFLECTOR 25' CTS
- ◁ CRYSTAL MONODIRECTIONAL REFLECTOR 25' CTS
- ▬ TEMPORARY CONCRETE BARRIER
- ◻ VERTICAL PANELS WITH STEADY BURNING LIGHTS ALONG TAPER 25' CTS
- IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3

FILE NAME =	USER NAME = shawleres	DESIGNED - ESS	REVISED -
p:\11\084EBID\INTEG\Illinois.gov\PI\DOT\Documents\DOT Offices\District 5\Projects\0570871\EBID\Struct\ESS\0570871-shr-Report\REVISED -			
Default	PLOT SCALE = 40.0000' / in.	CHECKED - TJB	REVISED -
	PLOT DATE = 9/14/2016	DATE - 1/7/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE I CONSTRUCTION
S.N. 092-0015 (EB)

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12B)I	VERMILION	51	10
CONTRACT NO. 70B71				
ILLINOIS FED. AID PROJECT				



VERTICAL PANELS WITH LIGHTS SHALL BE ATTACHED TO THE BARRIER WALL AT 25 FOOT CENTERS AND REFLECTORS SHALL BE ATTACHED TO GUARDRAIL AT 25 FOOT CENTERS. COST TO 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.

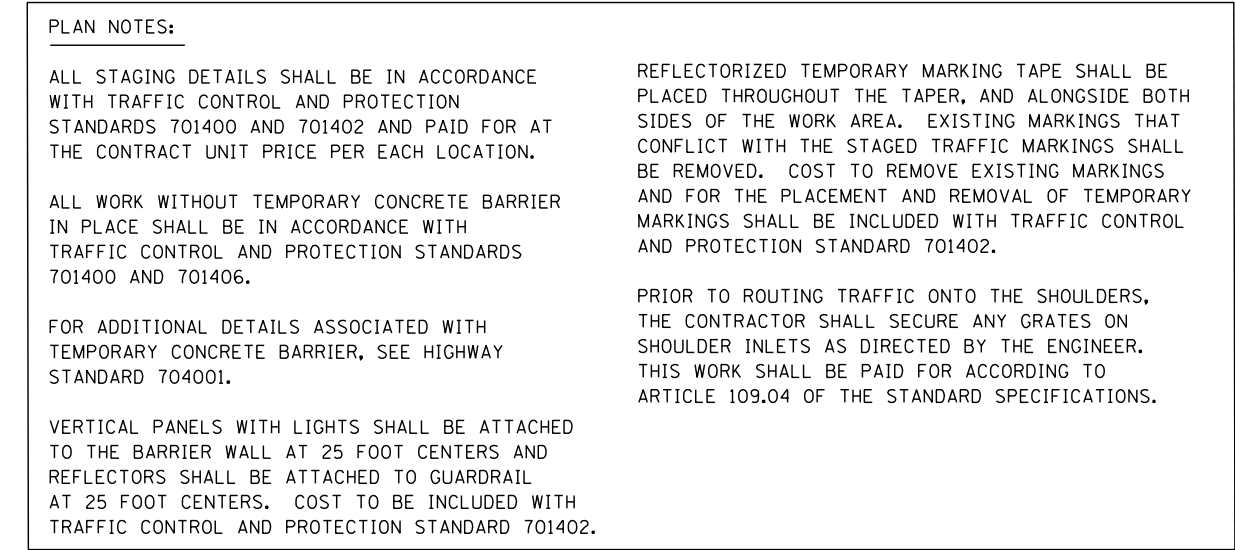
PRE-STAGE HMA SHOULDER INLAY, 3" (HMA
SURFACE REMOVAL, 3" & HMA SHOULDERS)

PART OF THE PRE-STAGE SHOULDER RESURFACING MAY BE REMOVED DURING FINAL PAVING TRANSITIONS THAT ARE REQUIRED TO MATCH PROPOSED DECK ELEVATIONS.

SYMBOLS

- | | |
|---|---|
|  | AMBER MONODIRECTIONAL REFLECTOR 25' CTS |
|  | CRYSTAL MONODIRECTIONAL REFLECTOR 25' CTS |
|  | TEMPORARY CONCRETE BARRIER |
|  | VERTICAL PANELS WITH STEADY BURNING
LIGHTS ALONG TAPER 25' CTS |
|  | IMPACT ATTENUATORS, TEMPORARY
(NON-REDIRECTIVE), TEST LEVEL 3 |

FILE NAME =	USER NAME = shawler	DESIGNED - ESS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGE II CONSTRUCTION				F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw\NL084EBIDINTEGallinois.gov\PIDOT\Documents\DOT Offices\District 5\Projects\DS70871\Drawings\Structure\SS\DS70871-shr-Report		CHECKED - TJB	REVISED -		S.N. 092-0015 (EB)				74	(92-12B)	VERMILION	51	11
	PLOT SCALE = 40.0000' / 1in.								CONTRACT NO. 70B71				
\$MODELNAME\$	PLOT DATE = 10/4/2016	DATE = 1/7/2016	REVISED -		SCALE:	SHEET 5	OF 7 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT			



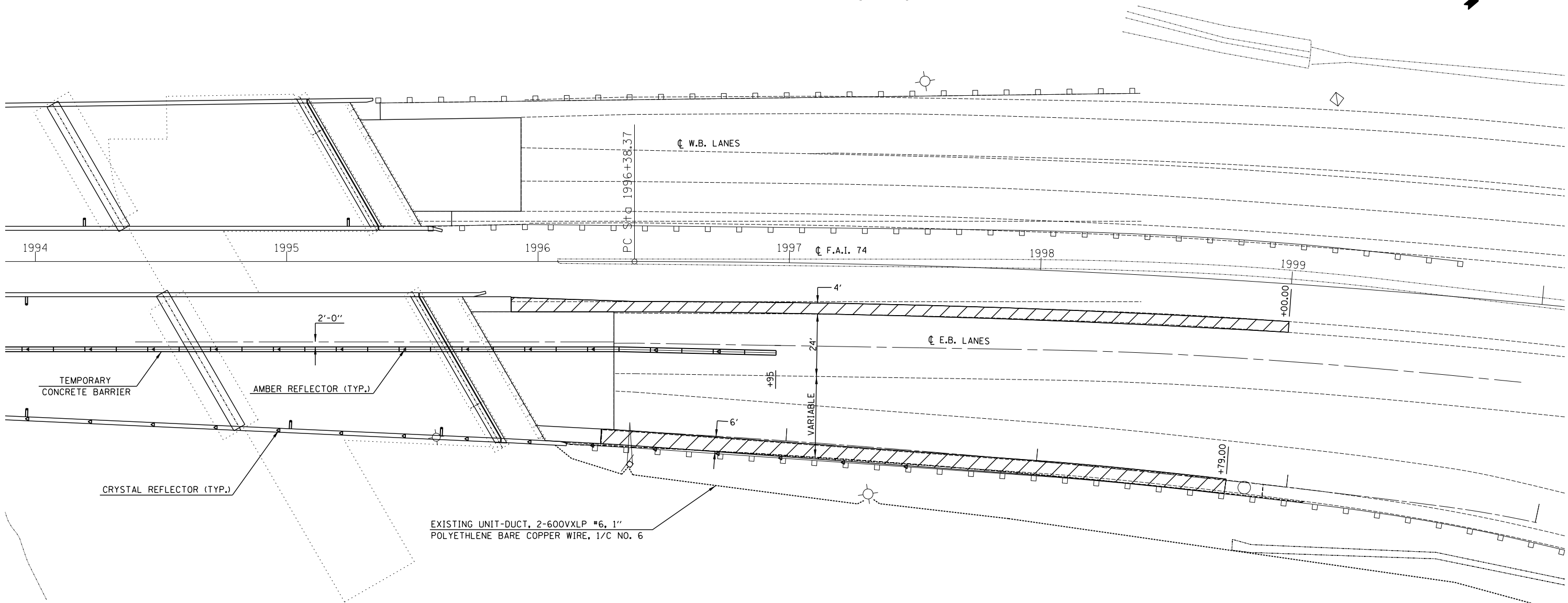
PRE-STAGE HMA SHOULDER INLAY, 3" (HMA SURFACE REMOVAL, 3" & HMA SHOULDERS)

NOTE:
PART OF THE PRE-STAGE SHOULDER RESURFACING MAY BE
REMOVED DURING FINAL PAVING TRANSITIONS THAT ARE
REQUIRED TO MATCH PROPOSED DECK ELEVATIONS.

	AMBER MONODIRECTIONAL REFLECTOR 25' CTS
	CRYSTAL MONODIRECTIONAL REFLECTOR 25' CTS
	TEMPORARY CONCRETE BARRIER
	VERTICAL PANELS WITH STEADY BURNING LIGHTS ALONG TAPER 25' CTS
	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3

FILE NAME =	USER NAME = showleres	DESIGNED - ESS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGE II CONSTRUCTION S.N. 092-0015 (EB)				F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw\N\084EBIDINTEG\Illinois.gov\PIDOT\Documents\DOT Offices\District 5\Projects\057087\057087-1\sh-Report\057087-1\sh-Report.dwg		CHECKED - TJB	REVISED -		74	(92-12B)I	VERMILION	51	12				
PLOT SCALE = 0.00000 ' / in.	CHECKED - TJB	REVISED -			CONTRACT NO. 70B71								
PLOT DATE = 10/4/2016	DATE = 10/4/2016	REVISED -			SCALE:	SHEET 6 OF 7 SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT					

STAGE II CONSTRUCTION
S.N. 092-0015 (E.B.)



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 701406.

FOR ADDITIONAL DETAILS ASSOCIATED WITH TEMPORARY CONCRETE BARRIER, SEE HIGHWAY STANDARD 704001.

VERTICAL PANELS WITH LIGHTS SHALL BE ATTACHED TO THE BARRIER WALL AT 25 FOOT CENTERS AND REFLECTORS SHALL BE ATTACHED TO GUARDRAIL AT 25 FOOT CENTERS. COST TO BE 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.



PRE-STAGE HMA SHOULDER INLAY, 3" (HMA SURFACE REMOVAL, 3" & HMA SHOULDERS)

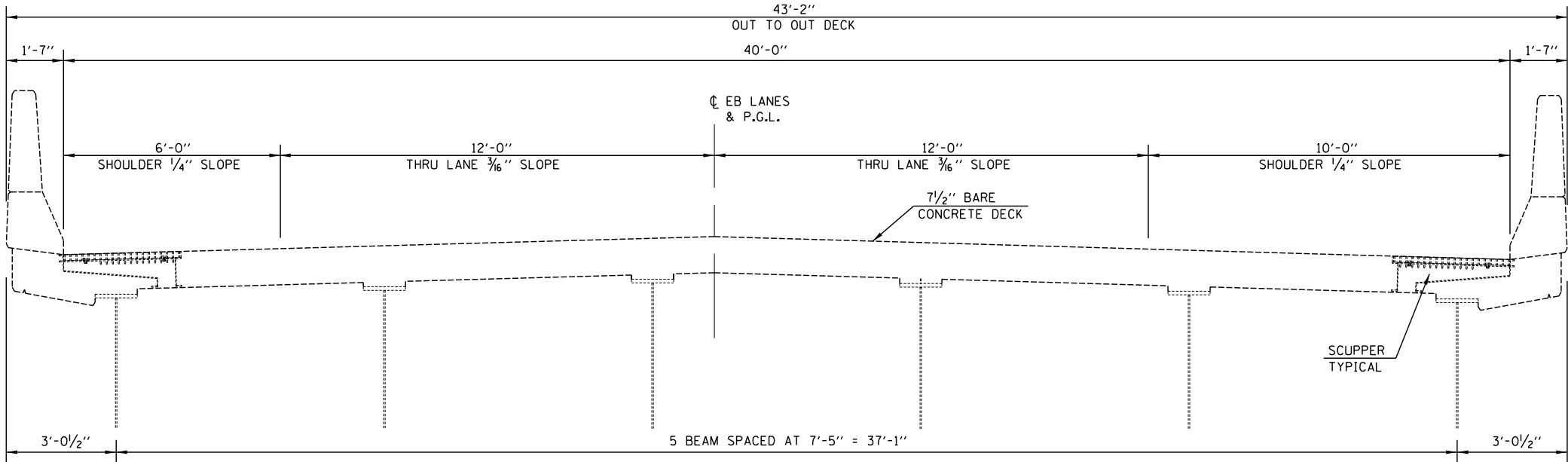
NOTE:
PART OF THE PRE-STAGE SHOULDER RESURFACING MAY BE REMOVED DURING FINAL PAVING TRANSITIONS THAT ARE REQUIRED TO MATCH PROPOSED DECK ELEVATIONS.

SYMBOLS

- AMBER MONODIRECTIONAL REFLECTOR 25' CTS
- CRYSTAL MONODIRECTIONAL REFLECTOR 25' CTS
- TEMPORARY CONCRETE BARRIER
- VERTICAL PANELS WITH STEADY BURNING LIGHTS ALONG TAPER 25' CTS
- IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3

FILE NAME =	USER NAME = shawleres	DESIGNED - ESS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGE II CONSTRUCTION S.N. 092-0015 (EB)	SCALE:	SHEET 7 OF 7 SHEETS	STA.	TO STA.	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
p:\11\084EBID\INTEG\illinois.gov\PI\DOT\Documents\DOT Offices\District 5\Projects\057087\057087-1-sht-Report\057087-1-sht-Report.dwg		DRAWN - ESS	REVISED -							74	(92-12B)I	VERMILION	51	13
\$MODELNAME\$		CHECKED - TJB	REVISED -										CONTRACT NO. 70B71	
		DATE - 1/12/2016	REVISED -									ILLINOIS FED. AID PROJECT		

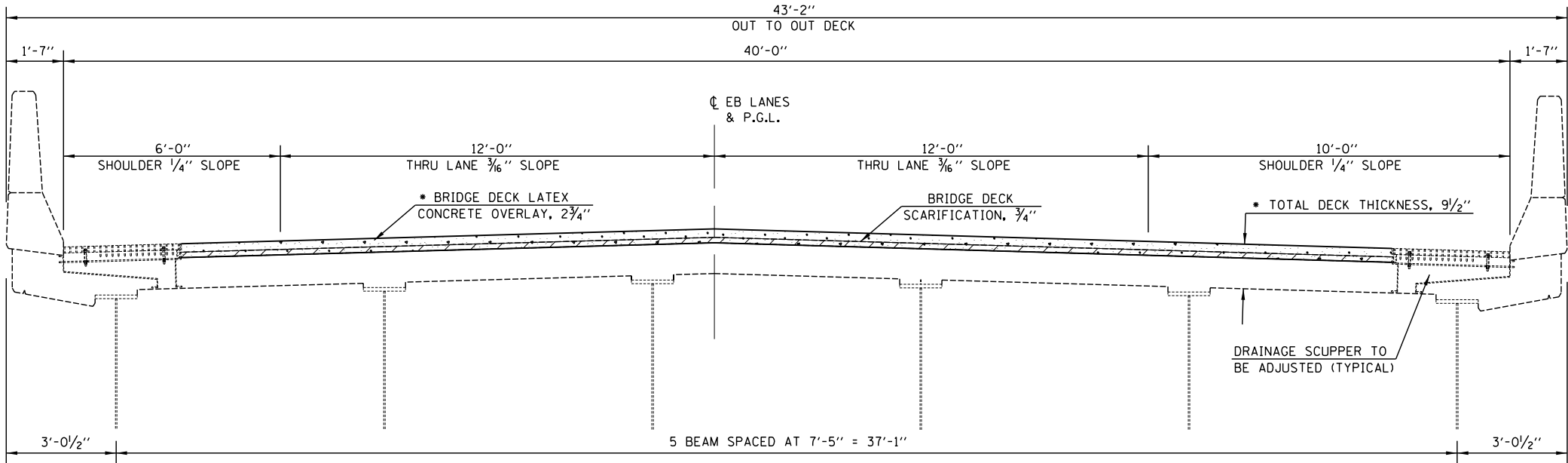
EXISTING DECK CROSS SECTION
S.N. 092-0015 (EB)
SPANS 1 & 2



LOOKING EAST

PROPOSED DECK CROSS SECTION
S.N. 092-0015 (EB)
SPANS 1 & 2

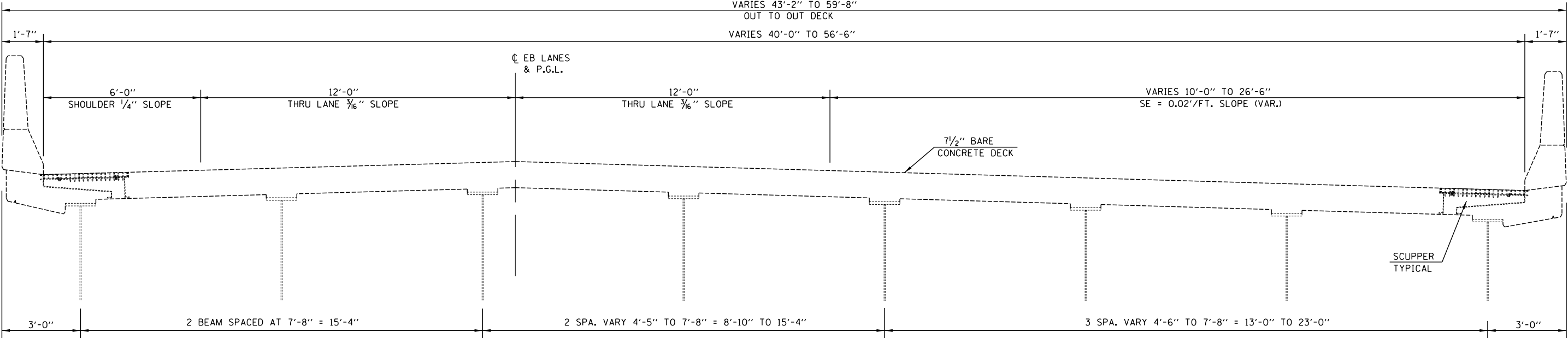
* PRIOR TO 1/4" DIAMOND GRINDING



LOOKING EAST

FILE NAME = p:\1\1084EBID\INTEG\Illinois.gov\PWIDOT\Documents\IDOT Offices\District 5\Projects\0570\0570-EBID\0570-EBID-0570B71-sht-Report\0570-EBID-0570B71-sht-Report.dwg	USER NAME = showleres	DESIGNED - ESS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BRIDGE DECK CROSS SECTIONS S.N. 092-0015 (EB)			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN - ESS	REVISED -	74					(92-12B)I	VERMILION	51	14	
	PLOT SCALE = 40.0000' / in.	CHECKED - TJB	CONTRACT NO. 70B71									
	PLOT DATE = 10/4/2016	DATE - 9/15/2015	ILLINOIS FED. AID PROJECT									
\$MODELNAME\$					SCALE:	SHEET 1	OF 2	SHEETS	STA.	TO STA.		

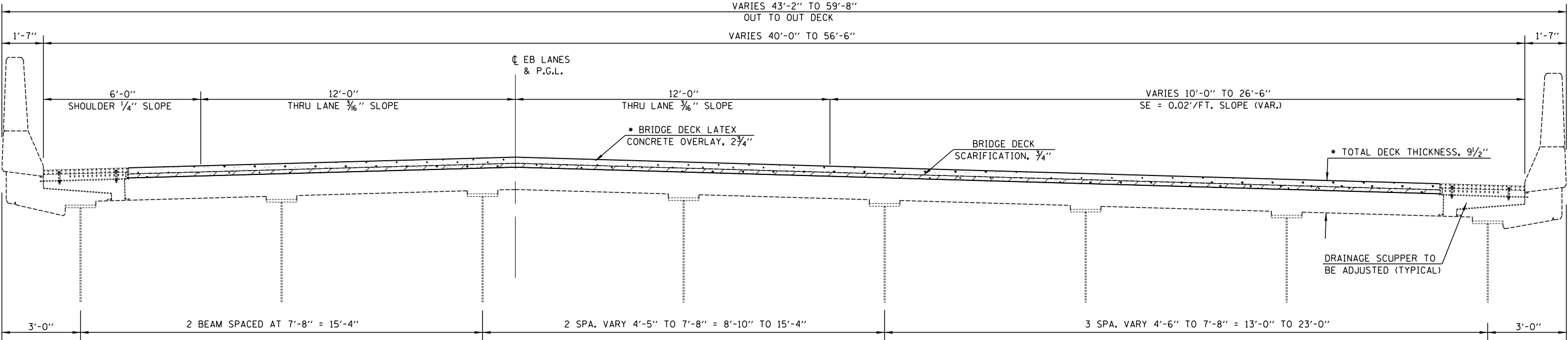
EXISTING DECK CROSS SECTION
S.N. 092-0015 (EB)
SPANS 3, 4 & 5



LOOKING EAST

PROPOSED DECK CROSS SECTION
S.N. 092-0015 (EB)
SPANS 3, 4 & 5

* PRIOR TO 1/4" DIAMOND GRINDING



LOOKING EAST

FILE NAME = p:\11\084EBID\INTEG.illinois.gov\PIDOT\Documents\IDOT Offices\District 5\Projects\057084EBID\Struct\ESS\0570871-sht-Report	USER NAME = shawleres	DESIGNED - ESS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BRIDGE DECK CROSS SECTIONS S.N. 092-0015 (EB)		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - ESS	REVISED -				74	(92-12B)I	VERMILION	51	15
		PLOT SCALE = 40.0000' / in.	CHECKED - TJB				CONTRACT NO. 70B71				
\$MODELNAME\$	PLOT DATE = 10/4/2016	DATE - 9/15/2015	REVISED -			SCALE:	SHEET 2 OF 2 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT	

Existing structures 092-0014 & 092-0015 were built in 1963 as F.A.I. 74, Section 92-12B at Station 1992+54. Each structure consisted of five continuous spans of two steel plate girders with steel floorbeams and reinforced concrete deck superstructure with double column piers and vaulted abutments. Overall length is 583'-9 1/4" and clear roadway width is 30'-0". In 1990 the structures were reconstructed as F.A.I. 74, Section (92-12B)BR. The superstructures and decks were removed and replaced with 45" Web E Girders. Structure 092-0014 has 7 girders spaced for a clear roadway width of 41'-3 3/4" West Abutment and 49'-1" East Abutment. Structure 092-0015 Spans 1 & 2 have 6 girders spaced for a 40'-0" clear roadway width. Spans 3, 4, & 5 have 8 girders spaced for a 56'-6" clear roadway at the East Abutment. A fixed 1 3/4" P.J.S. Joint was placed at Pier 2. The existing abutments and piers were widened to support the new 7 1/2" reinforced concrete slabs.

Work shall be completed with Stage Construction.

GENERAL NOTES

All structural steel shall conform to AASHTO Classification M-270 Gr. 36, unless otherwise noted.

Reinforcement bars designated (E) shall be epoxy coated.

Expansion joints shall be fabricated and installed according to the manufacturer's recommendations and as approved by the Engineer.

Expansion joints shall be fabricated to conform to the existing cross slopes of the bridge.

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 scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

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.

Modular expansion joints shall be assembled in their final relative position with the ends in place for shop inspection and acceptance.

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 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 the pay item covering removal of the existing concrete.

Synthetic fibers shall be added to the Bridge Deck Latex Concrete Overlay. See special provisions.

Cost of removal and re-installation of all members necessary to complete the work as detailed on the plans and as specified in the Special Provisions shall be included with Furnishing and Erecting Structural Steel.

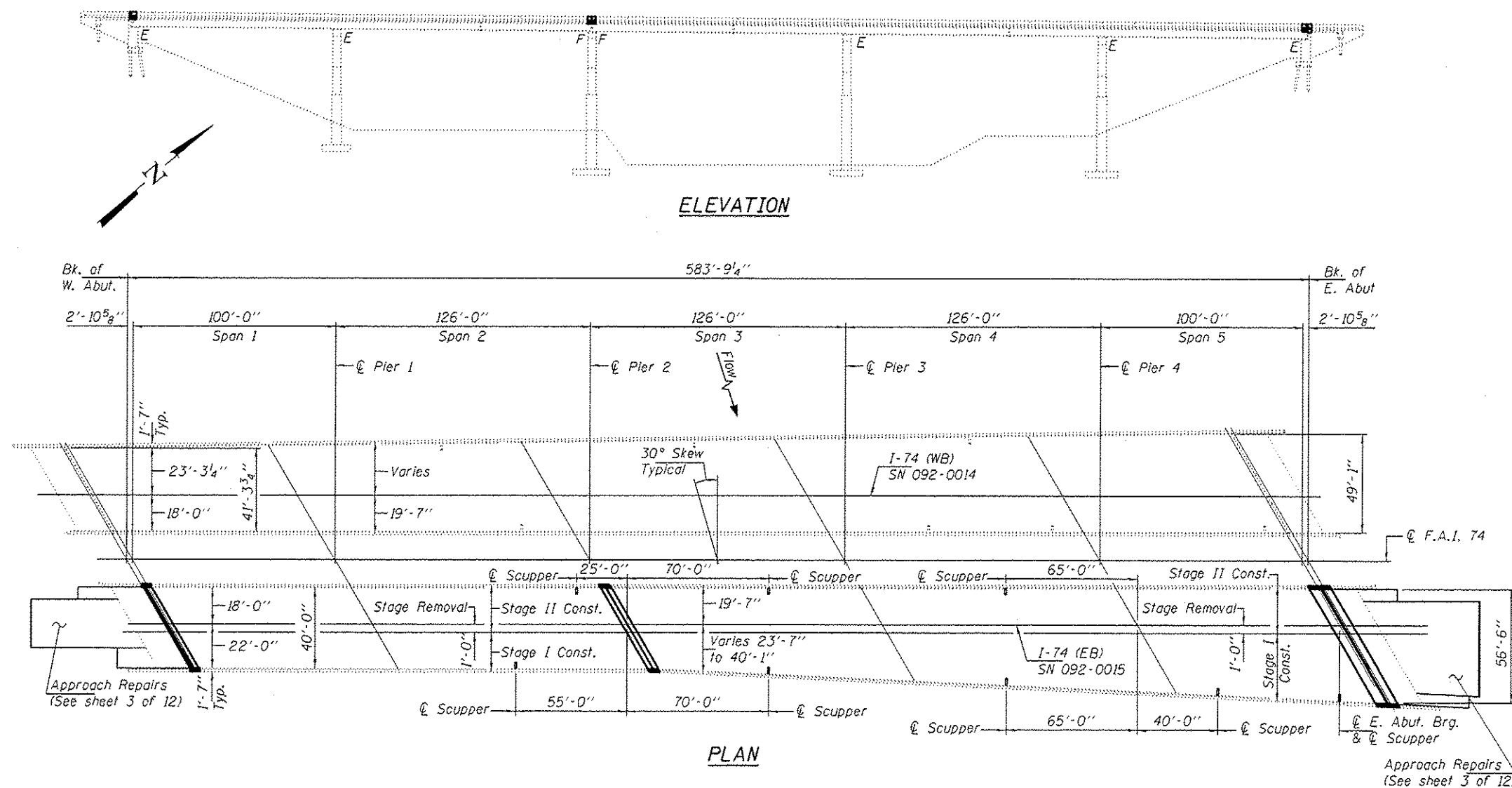
Diaphragm connection holes shall be 1 5/8" Ø for 3/4" Ø bolts. Two hardened washers shall be required at diaphragm connections.

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

All structural steel shall be shop painted with the inorganic zinc rich primer per AASHTO M300, Type I. Cost included with Furnishing & Erecting Structural Steel.

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

Deck survey performed by hand sounding on August 25, 2015. No delaminated areas were found thus no full-depth patching is required. Should areas for full-depth patching be identified after Bridge Deck Scarification, the R.E. should show them on the General Plan & Elevation sheet.



TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Concrete Removal	Cu. Yd.	42.8
Concrete Superstructure	Cu. Yd.	48.3
Structural Steel Removal	Pound	710
Furnishing & Erecting Structural Steel	Pound	740
Reinforcement Bars, Epoxy Coated	Pound	8000
Bar Splicers	Each	62
Modular Expansion Joint, 6"	Foot	69
Preformed Joint Strip Seal	Foot	97
Mechanical Splicers	Each	292
Bridge Deck Scarification, 3/4"	Sq. Yd.	3381
Bridge Deck Latex Concrete Overlay, 2 3/4"	Sq. Yd.	3381
Bridge Deck Grooving (Longitudinal)	Sq. Yd.	2384
Drainage Scuppers to be Adjusted	Each	8
Polymer Concrete	Cu. Ft.	5.5
Protective Coat	Sq. Yd.	114
Diamond Grinding (Bridge Section)	Sq. Yd.	3268

* On new concrete superstructure only



EXPIRES 11-30-2018

DESIGNED *Stephen M. Ryan*
CHECKED *Steffen*
DRAWN *Steffen*
CHECKED *Steffen*

PASSED

David Carl Puzey
ACTING ENGINEER OF BRIDGES AND STRUCTURES

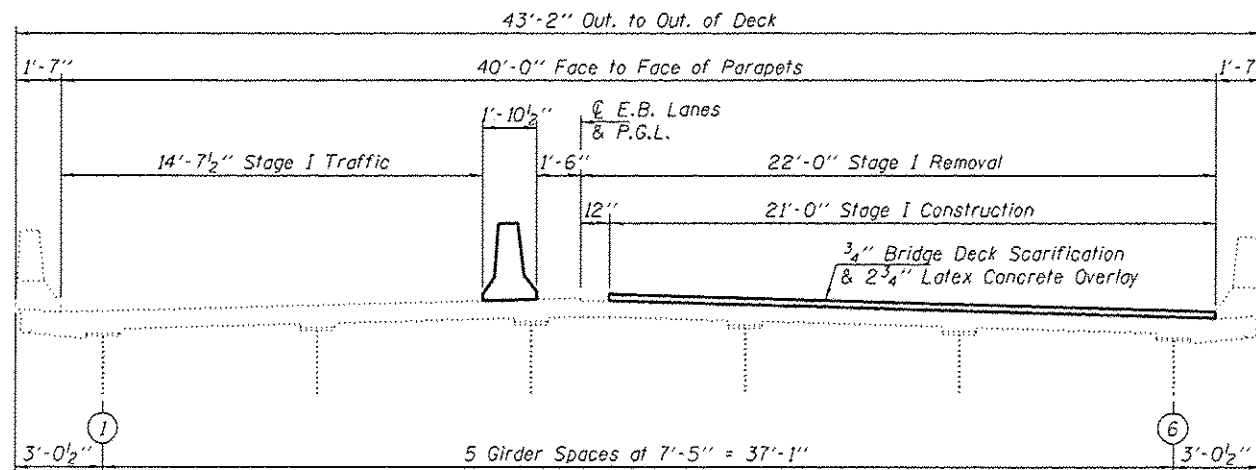
DATE DECEMBER 1, 2016
REVISED
REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

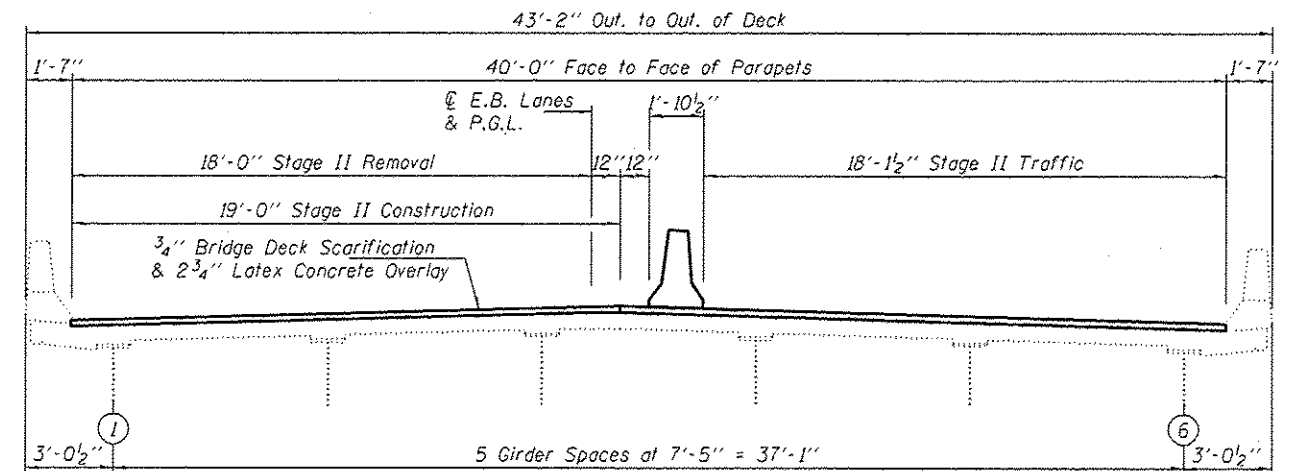
PLAN AND ELEVATION
FAI 74 OVER THE VERMILION RIVER
SN 092-0015

SHEET NO. 1 OF 12 SHEETS

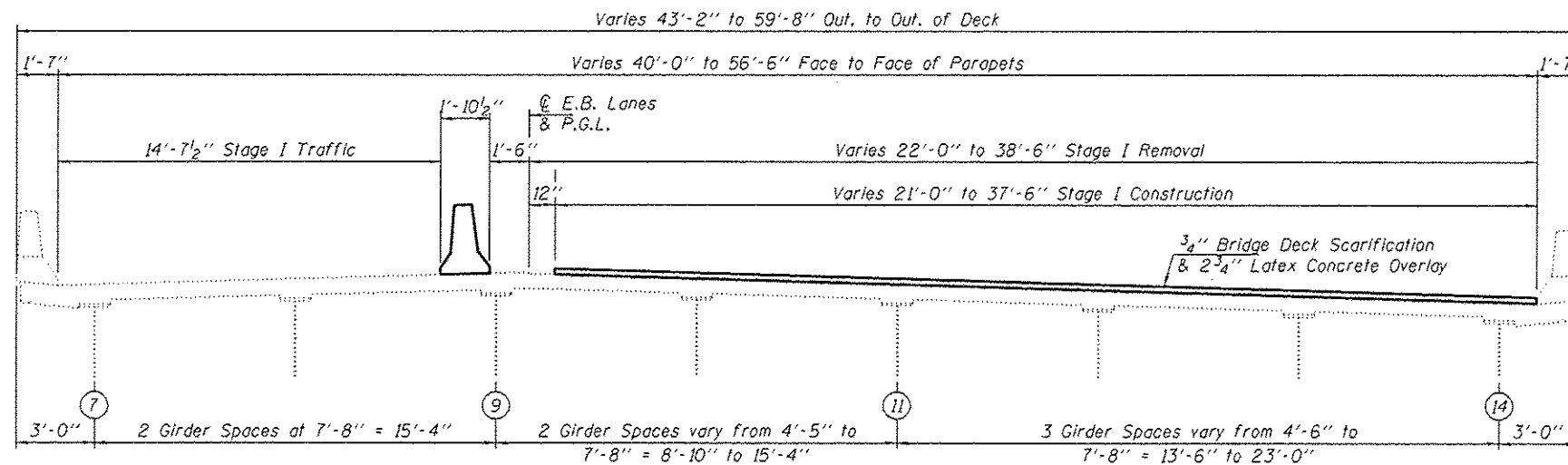
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	(92-12B)I	VERMILION	51	16
CONTRACT NO. 70B71				
ILLINOIS FED. AID PROJECT				



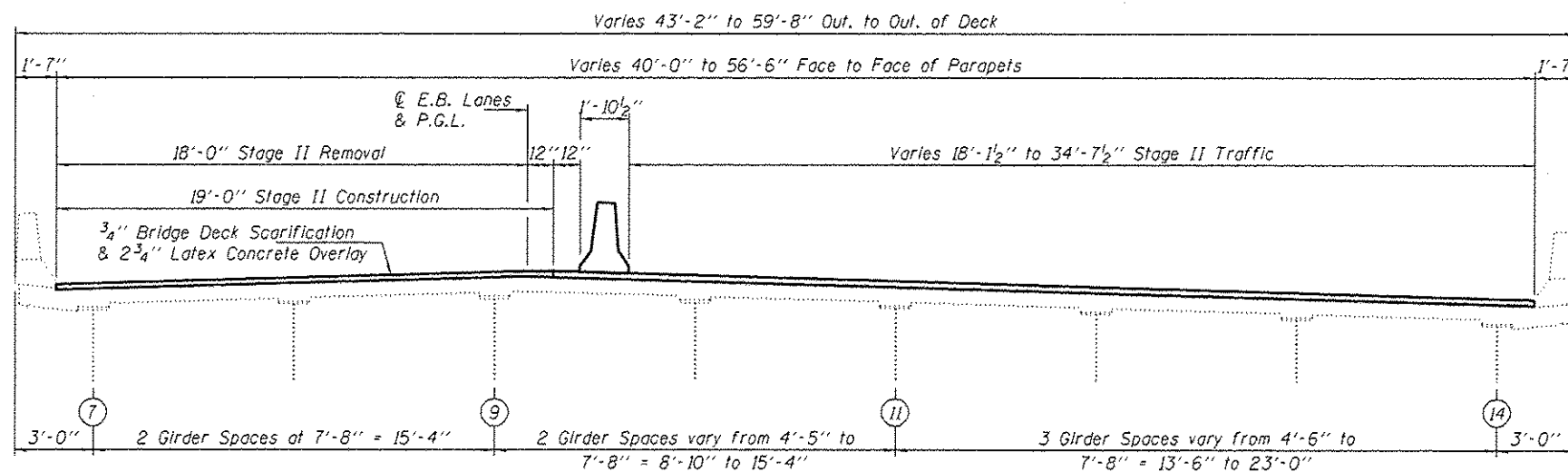
STAGE I CONSTRUCTION DETAILS FOR SPANS 1 & 2
(Looking East)



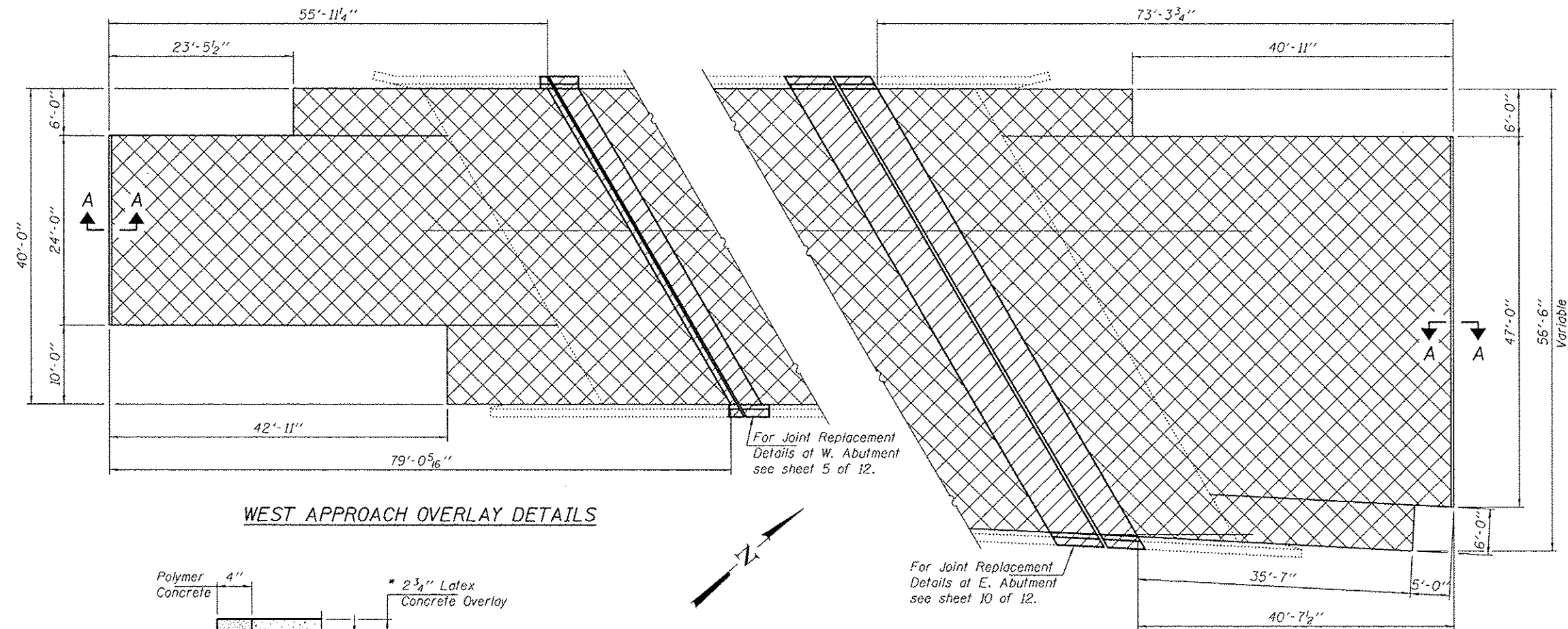
STAGE II CONSTRUCTION DETAILS FOR SPANS 1 & 2
(Looking East)



STAGE I CONSTRUCTION DETAILS FOR SPANS 3 THRU 5
(Looking East)

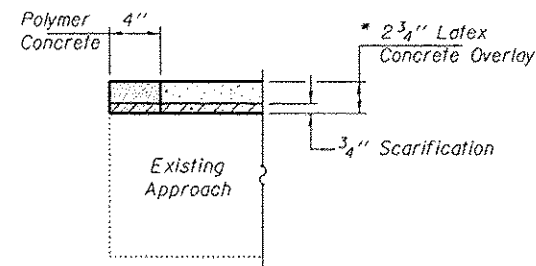


STAGE II CONSTRUCTION DETAILS FOR SPANS 3 THRU 5
(Looking East)



WEST APPROACH OVERLAY DETAILS

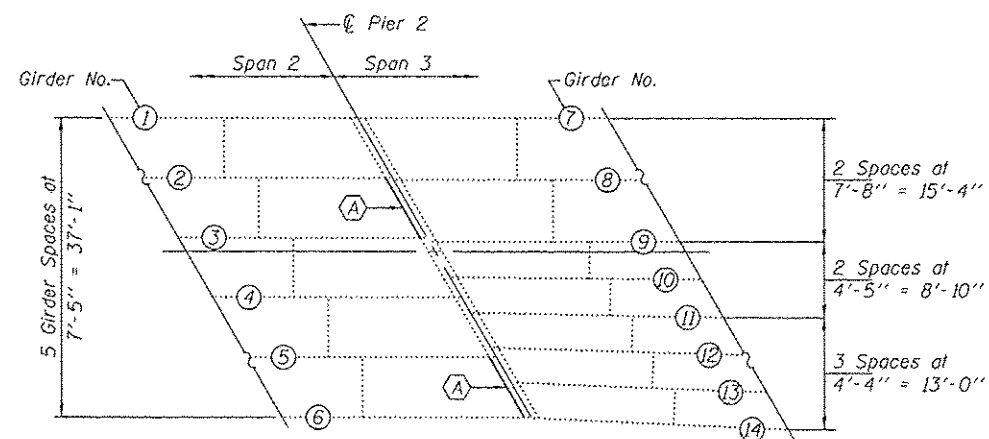
EAST APPROACH OVERLAY DETAILS



SECTION A-A

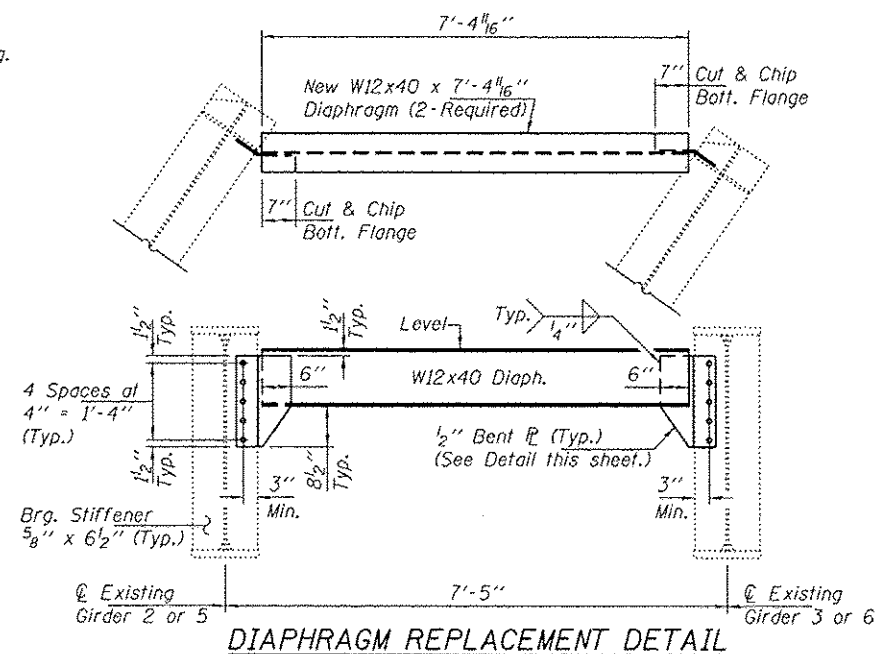
* Prior to 1/4" Diamond Grooving.

Cross-hatched areas indicate:
Scarification, 3/4";
Latex Concrete Overlay, * 2 3/4";
and Bridge Deck Grooving.



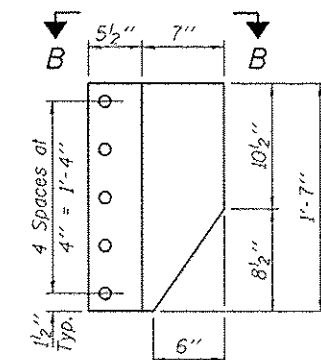
PARTIAL FRAMING PLAN

(A) - Remove & Replace Existing W12x40 Diaphragm and Connection R's.



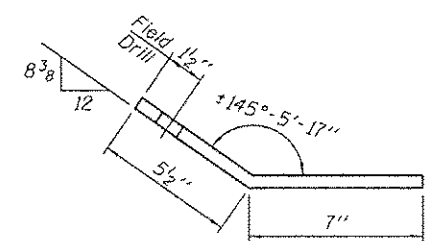
DIAPHRAGM REPLACEMENT DETAIL

Field drill holes in Connection R's using existing holes in stiffeners as template.



BENT R DETAILS

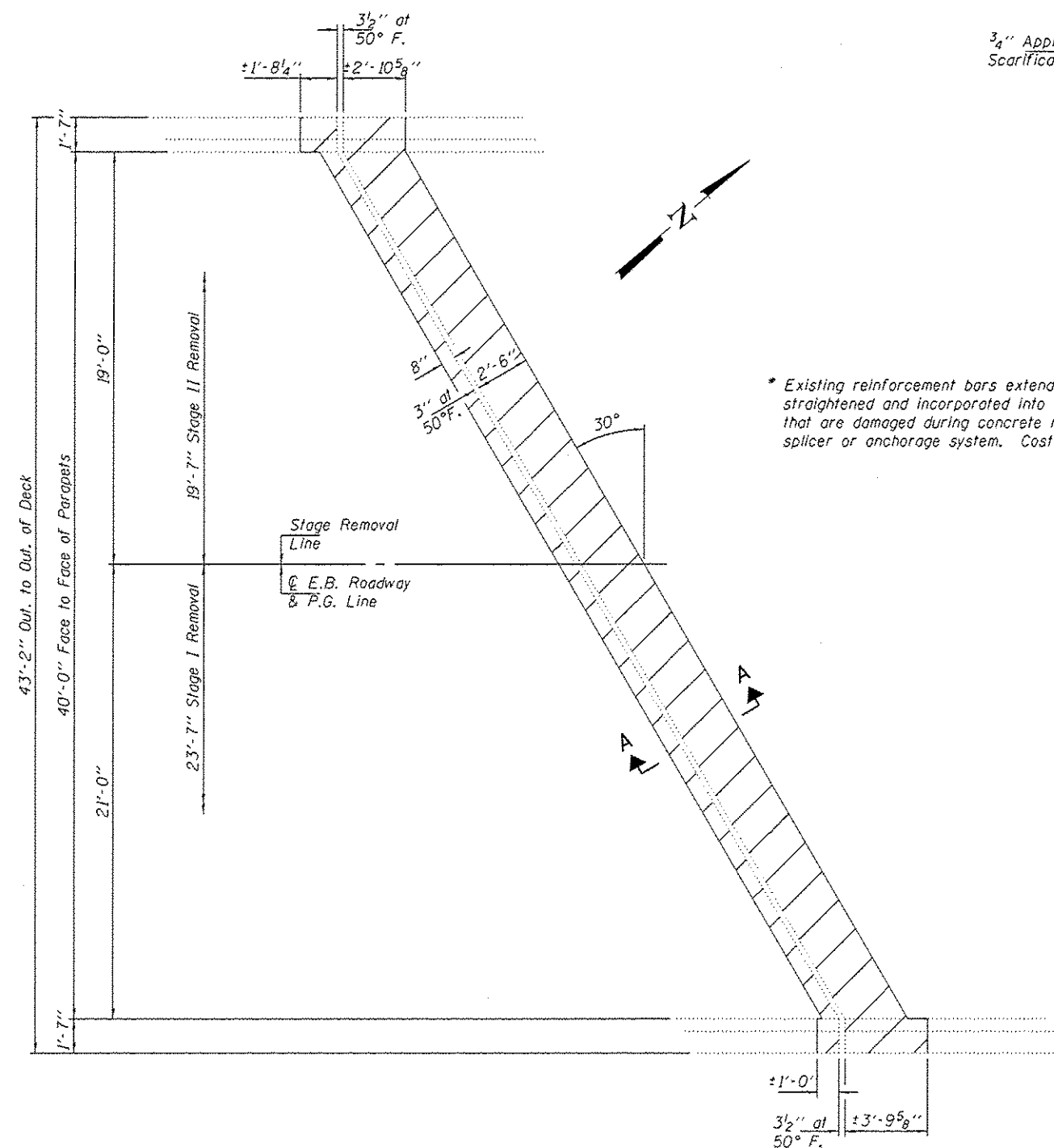
Bent R 1/2" x 1'-0 3/8" x 1'-7" (4-Required)



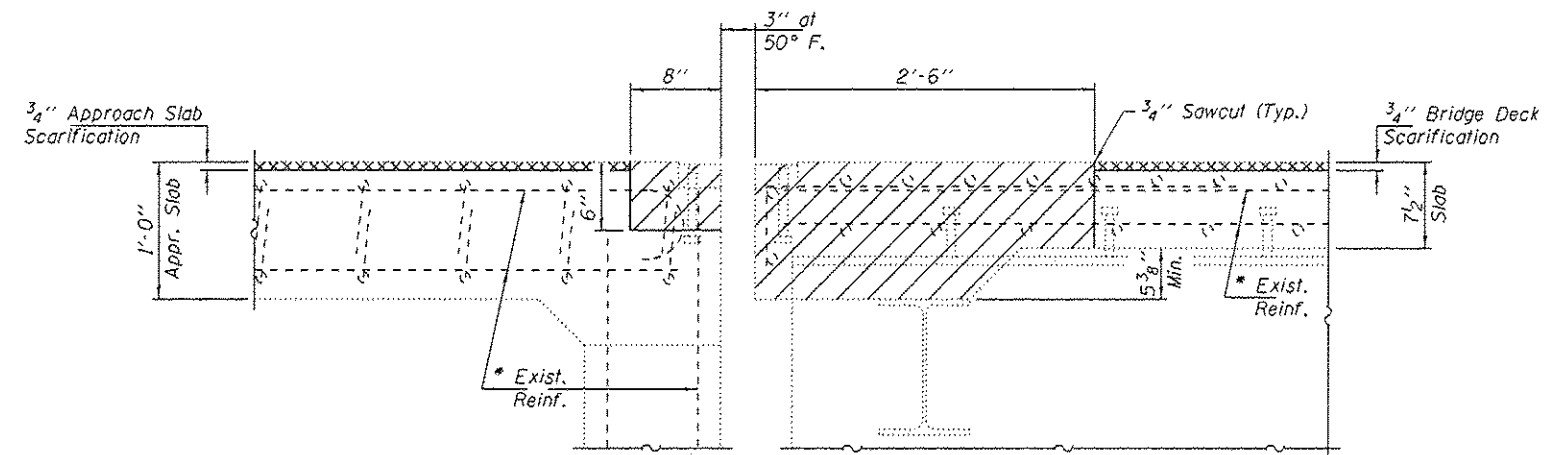
VIEW B-B

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Structural Steel Removal	Pound	710
Furnishing & Erecting Structural Steel	Pound	740
Bridge Deck Scarification, 3/4"	Sq. Yd.	3381
Bridge Deck Latex Concrete Overlay, 2 3/4"	Sq. Yd.	3381
Bridge Deck Grooving	Sq. Yd.	3268
Polymer Concrete	Cu. Ft.	5.5

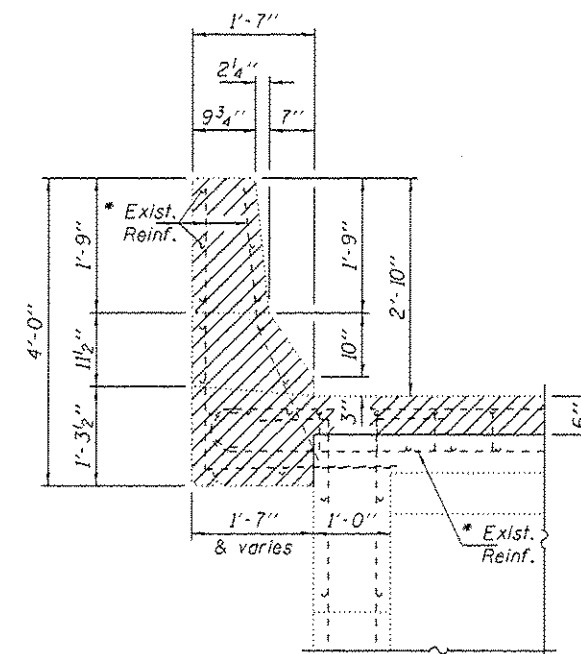


CONCRETE REMOVAL AT WEST ABUTMENT

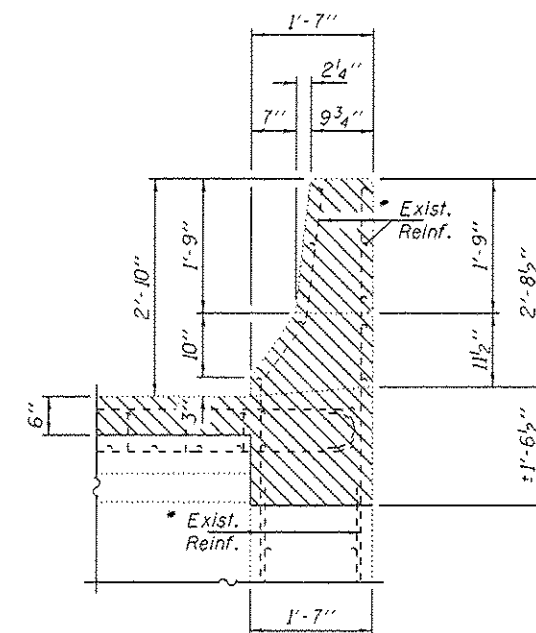


SECTION A-A
(Near E Roadway)
(Dims. at RT L's to end of deck)

* 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.

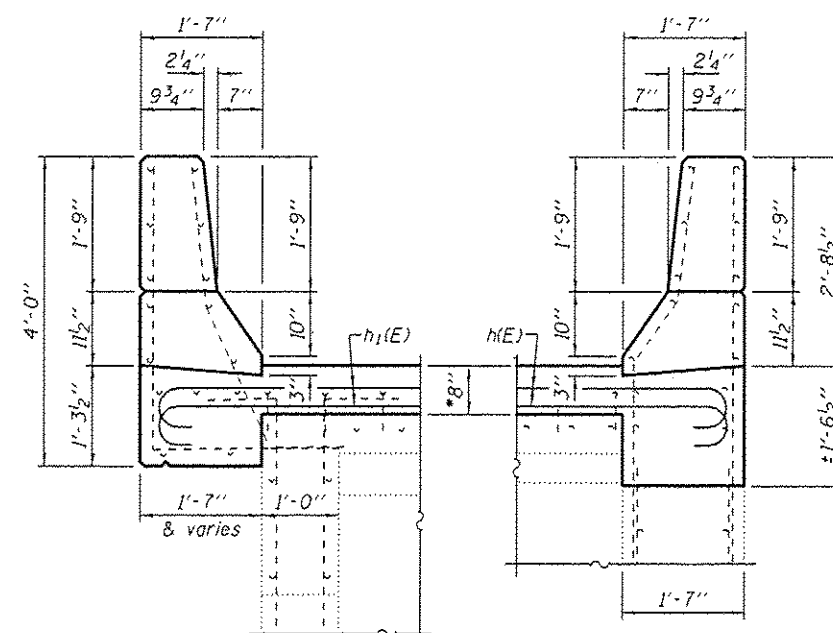
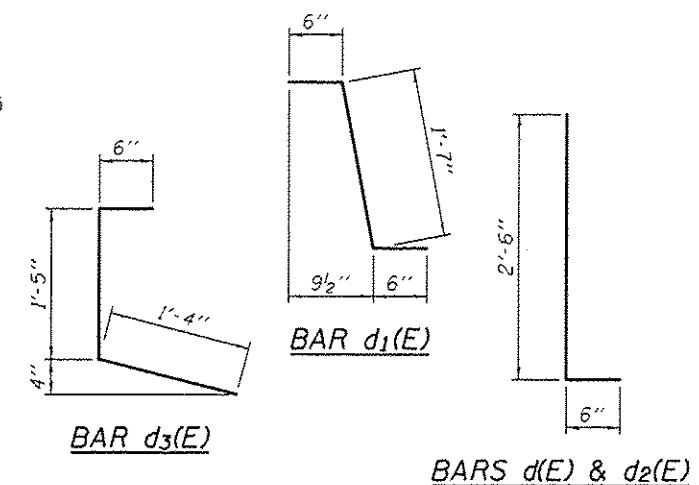
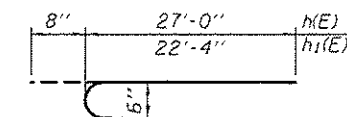
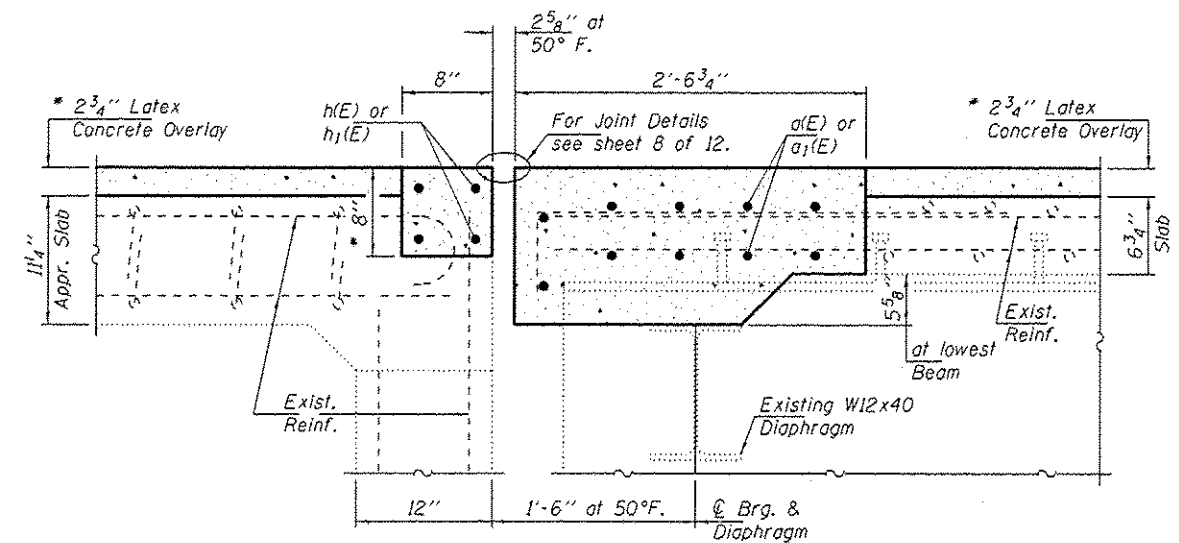
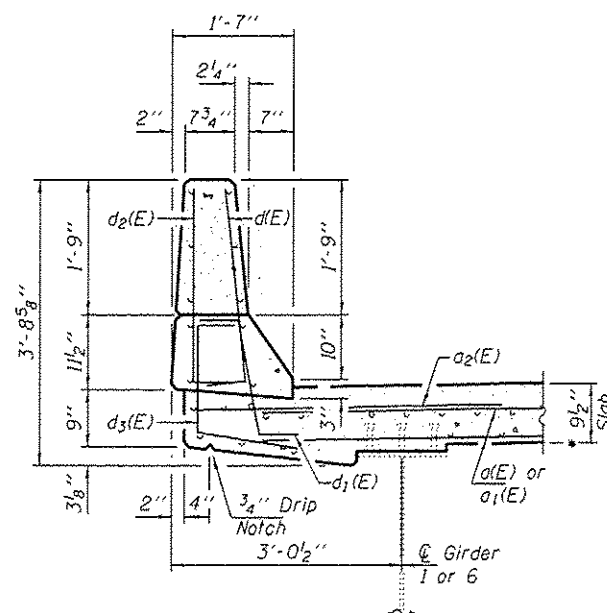
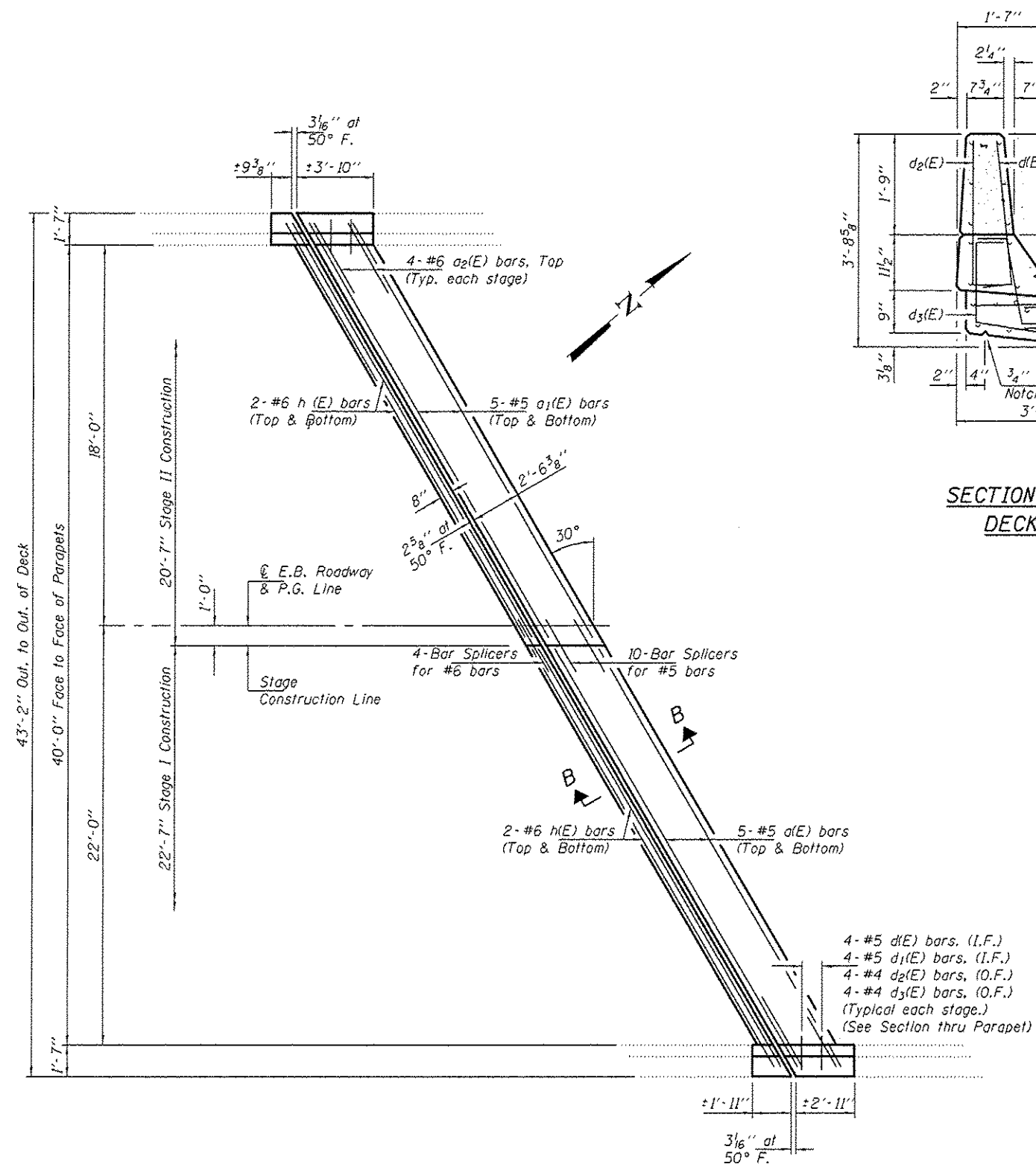


SECTION THRU NORTH
APPROACH PARAPET



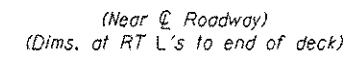
SECTION THRU SOUTH
APPROACH PARAPET

Notes:
Hatched areas indicate Concrete Removal.
For Bridge Deck Parapet Dimensions and
Details and Bill of Material, see sheet 5 of 12.



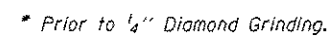
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	10	#5	24'-5"	
a ₁ (E)	10	#5	22'-1"	
a ₂ (E)	8	#6	4'-0"	
d(E)	8	#5	3'-0"	
d ₁ (E)	8	#5	2'-7"	
d ₂ (E)	8	#4	3'-0"	
d ₃ (E)	8	#4	3'-3"	
h(E)	4	#6	26'-8"	
h ₁ (E)	4	#6	24'-0"	
Concrete Removal			Cu. Yd.	7.2
Concrete Superstructure			Cu. Yd.	8.4
Bar Splicers			Each	14
Reinforcement Bars, Epoxy Coated			Pound	920



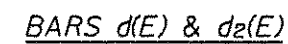
Notes:
Hatched areas indicate Concrete Removal.
For Bridge Deck Parapet Dimensions and
Details and Bill of Material, see sheet 7 of 12.

DESIGNED <i>SMR</i>	PASSED  ACTING ENGINEER OF BRIDGES AND STRUCTURES	DATE <u>DECEMBER 1, 2016</u>	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PIER 2 JOINT REMOVAL DETAILS SN 092-0015 (E.B.)	SHEET NO. 6 OF 12 SHEETS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHECKED <i>JGY</i>		REVISED				14	192-1201	VERMILION	51	21
DRAWN <i>Steffen</i>		REVISED				CONTRACT NO. 70871				
CHECKED <i>SMR JGY</i>		REVISED				ILLINOIS FED. AID PROJECT				



SECTION D-D

(Near E Roadway)
(Dims. at RT L's to end of deck)



BAR $d_1(E)$

BAR $d_3(E)$

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	16	#5	24'-5"	=====
a ₁ (E)	16	#5	22'-1"	=====
a ₂ (E)	16	#6	4'-0"	=====
d(E)	12	#5	3'-0"	┐
d ₁ (E)	12	#5	2'-7"	┐
d ₂ (E)	12	#4	3'-0"	┐
d ₃ (E)	12	#4	3'-3"	┐
Concrete Removal			Cu. Yd.	9.2
Concrete Superstructure			Cu. Yd.	10.0
Bar Splicers			Each	16
Reinforcement Bars, Epoxy Coated			Pound	990

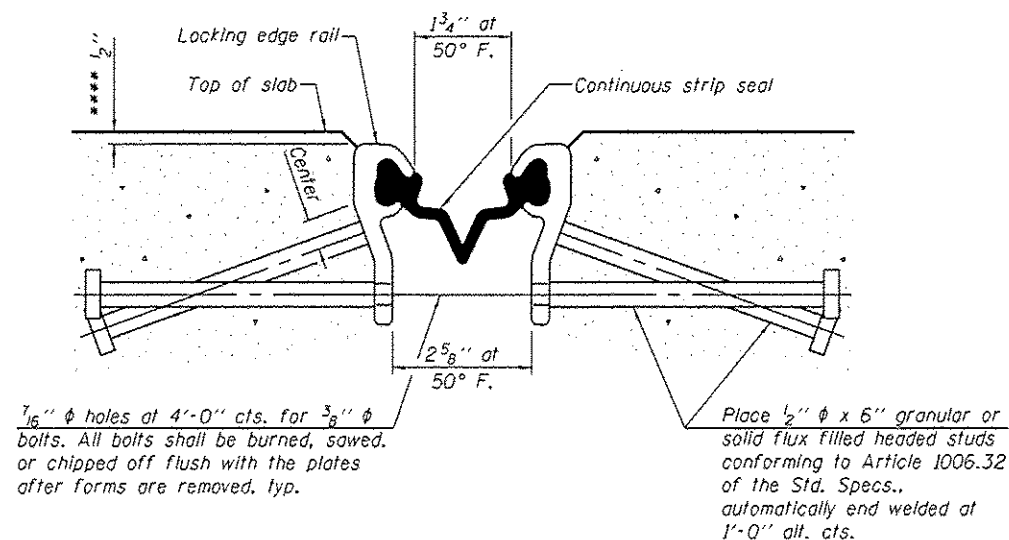
DIMENSION "A"

SPAN	PARAPET	Dim. "A"
2	North	3' 1/8"
2	South	3' 1/8"
3	North	3' 7/8"
3	South	3"

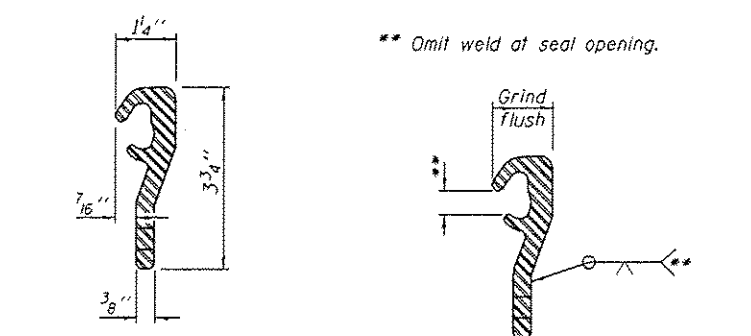
SECTION THRU BRIDGE

DECK PARAPET

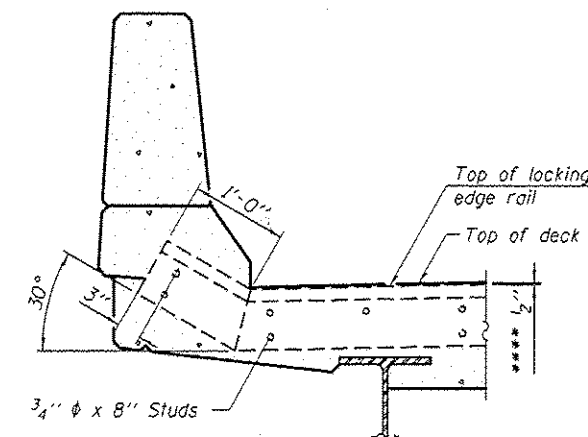
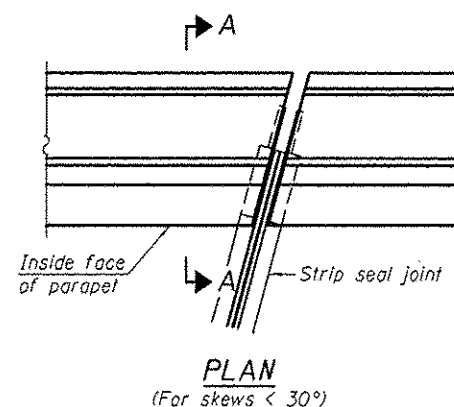
(See Table for Dim. "A")



SECTION THRU SHALLOW STRIP SEAL
JOINT AT WEST ABUTMENT

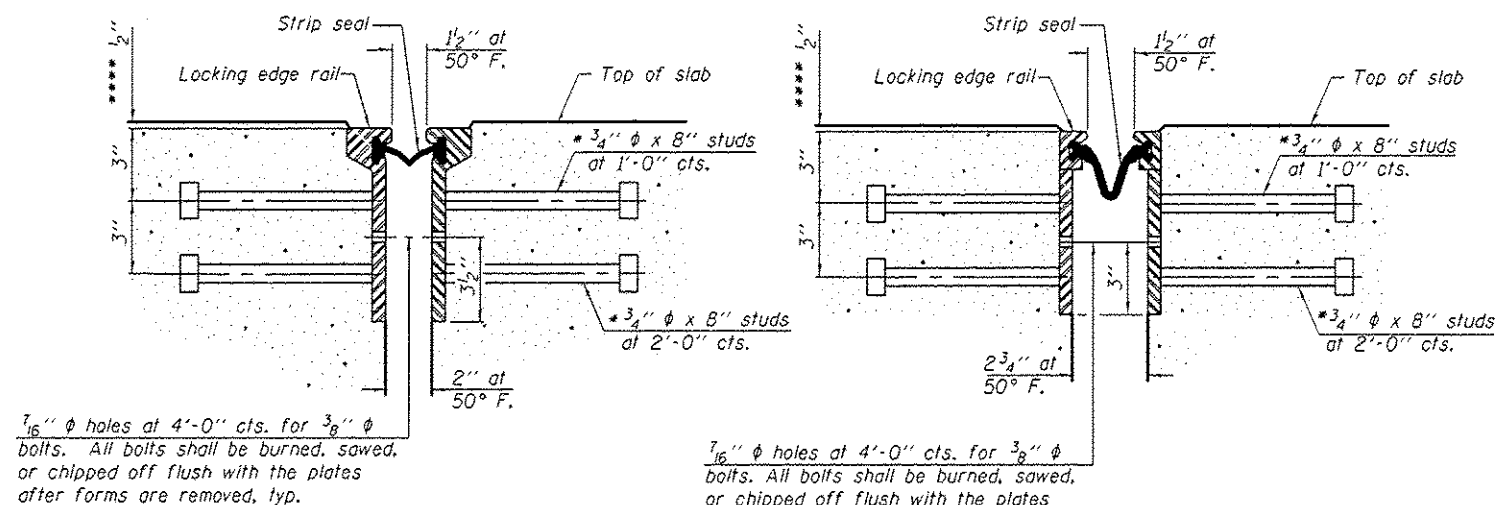


LOCKING EDGE RAIL LOCKING EDGE RAIL SPLICE
SHALLOW DEPTH LOCKING EDGE RAILS



SECTION A-A

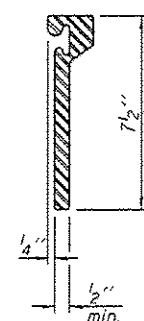
**** Prior to 1/4 inch Diamond Grinding.



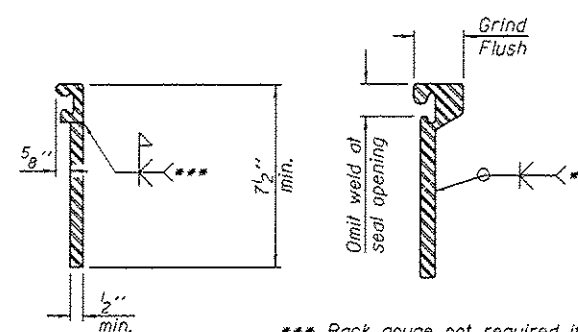
SECTION THRU ROLLED RAIL
JOINT AT PIER 2

SECTION THRU WELDED RAIL
JOINT AT PIER 2

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



ROLLED
EXTRUDED RAIL



LOCKING EDGE
RAIL SPLICE

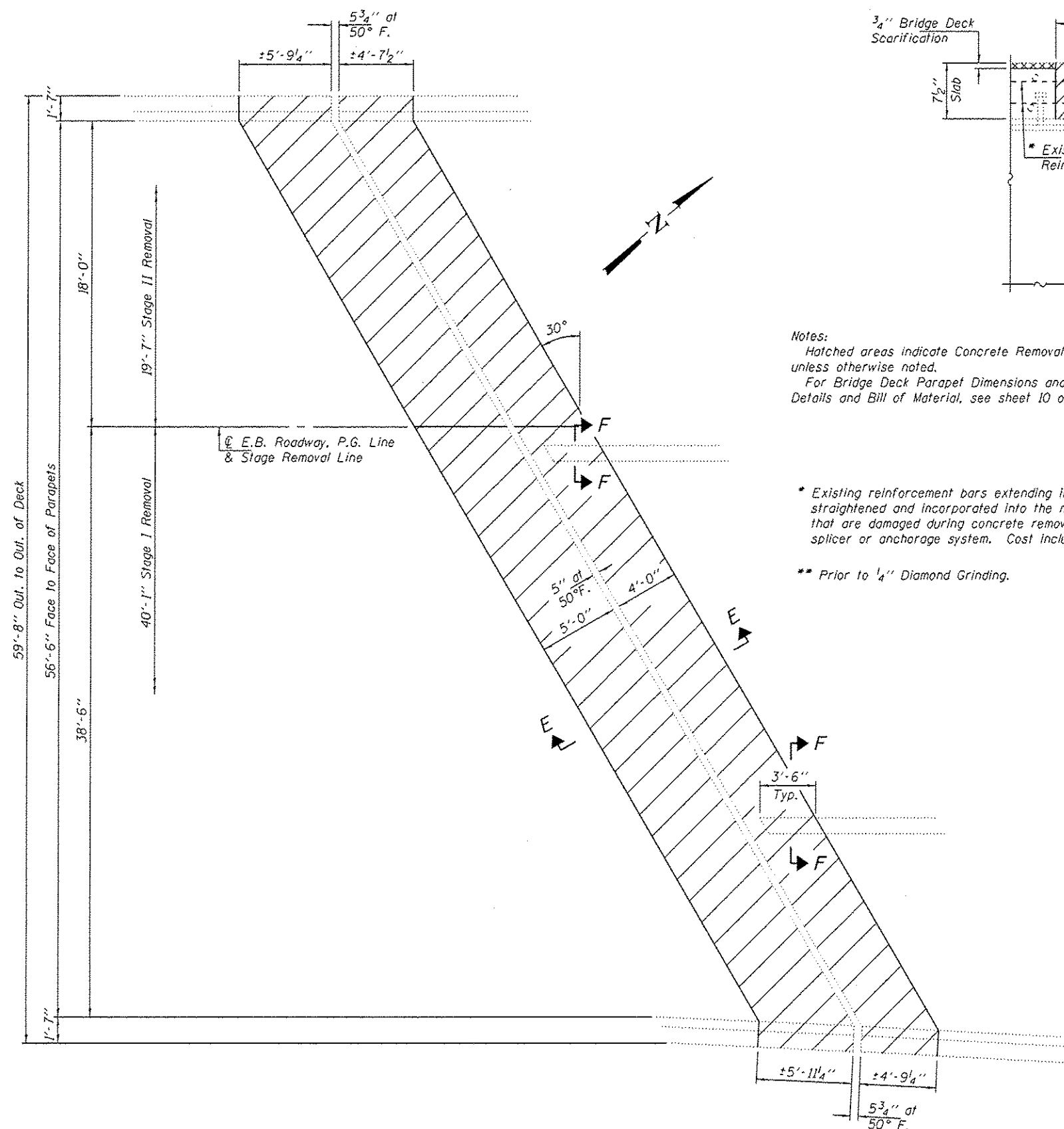
The inside of the locking edge rail groove shall be free of weld residue.
Rolled rail shown, welded rail similar.

NORMAL DEPTH LOCKING EDGE RAILS

Notes:
The strip seal shall be made continuous and shall have a minimum thickness of 1/4 inch. 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 conceptual only, except for the minimum dimensions shown. 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. Locking Edge Rails may be spliced at slope discontinuities.
The manufacturer's recommended installation methods shall be followed.
The joint opening and deck dimensions detailed on the superstructure are based on a rolled rail expansion joint. If the Contractor elects to use the welded rail expansion joint, the opening and deck dimensions shall be modified according to the dimensions detailed on this sheet. Required modifications shall be made at no additional cost to the State.
All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications. Maximum space between rail segments shall be 3/16 inch, sealed with a suitable sealant. Joints in rails within 10 ft. of curbs shall be welded.

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	97

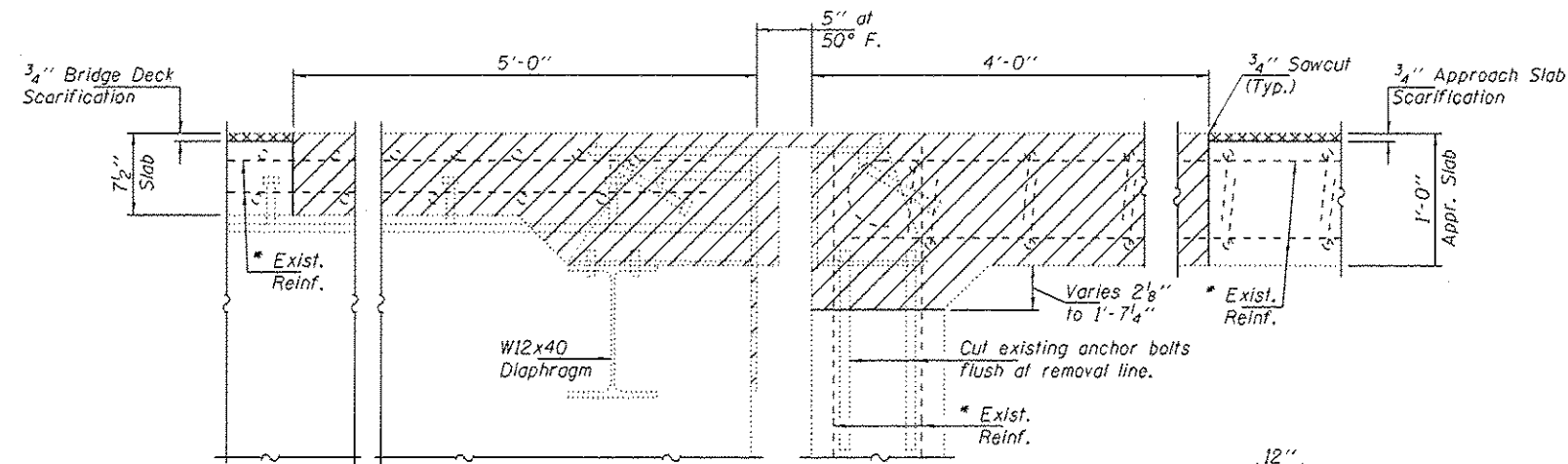


CONCRETE REMOVAL AT EAST ABUTMENT

Notes:
Hatched areas indicate Concrete Removal unless otherwise noted.
For Bridge Deck Parapet Dimensions and Details and Bill of Material, see sheet 10 of 12.

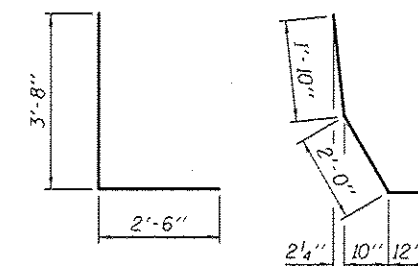
* Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.

** Prior to 1/4" Diamond Grinding.



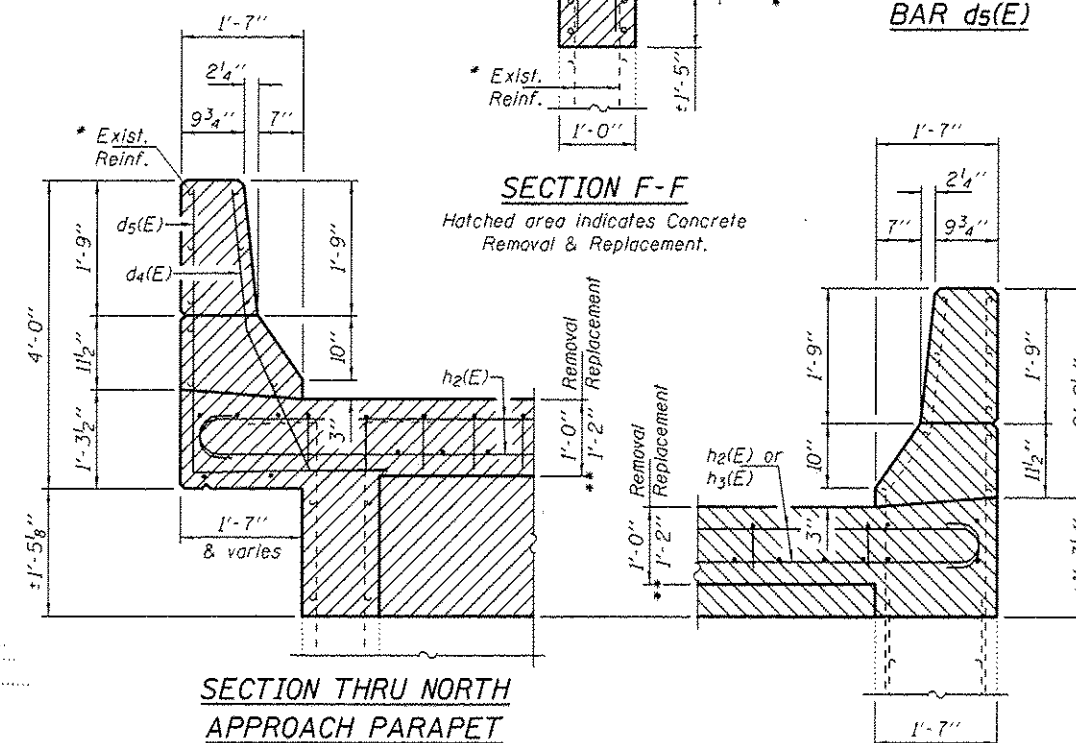
SECTION E-E
(Near E Roadway)
(Dims. at RT L's to end of deck)

BAR d6(E)



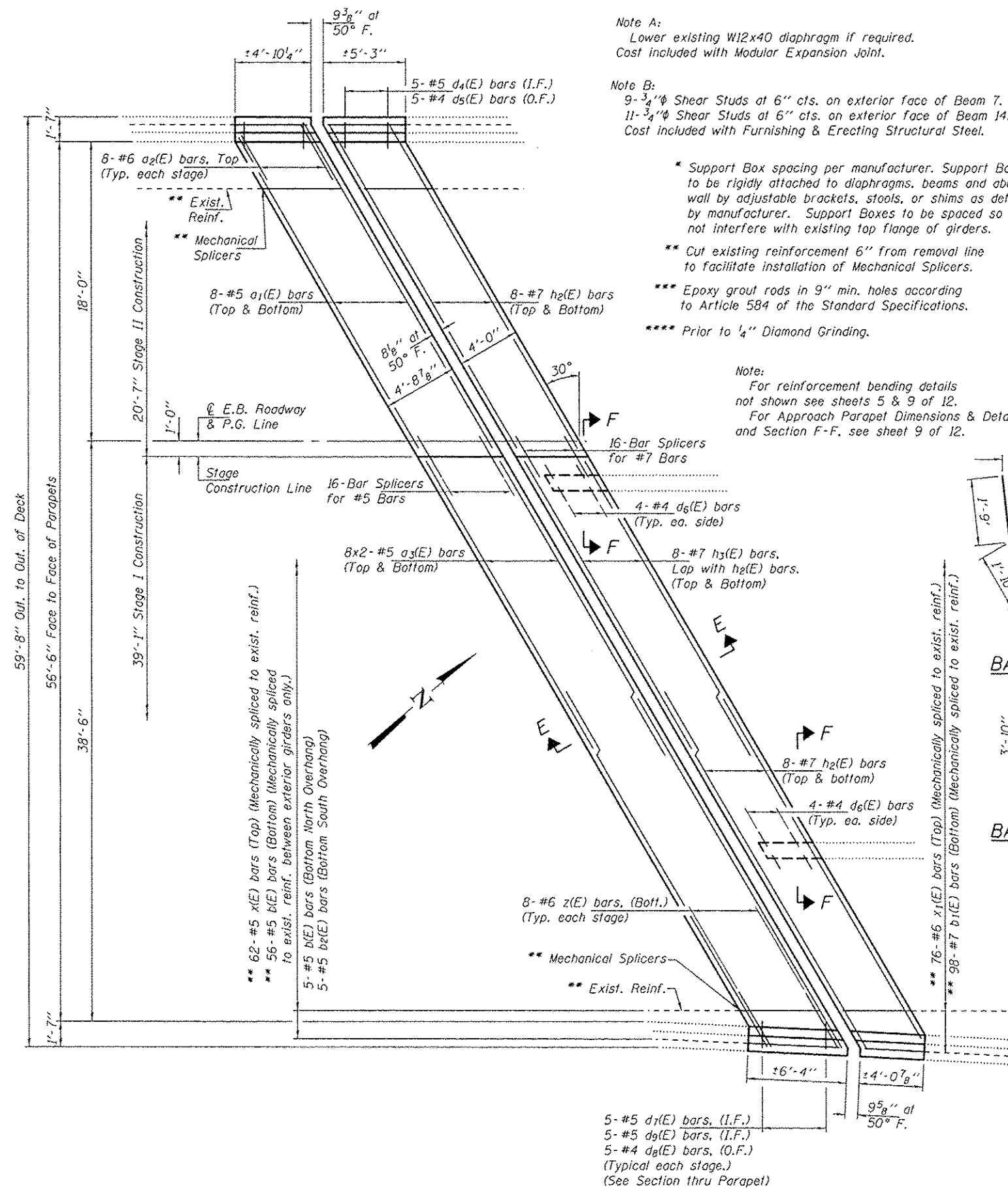
BAR d5(E)

BAR d4(E)



SECTION THRU NORTH
APPROACH PARAPET
Hatched area indicates Concrete
Removal & Replacement.

SECTION THRU SOUTH
APPROACH PARAPET
Hatched area indicates Concrete
Removal & Replacement.



Note A:
Lower existing W12x40 diaphragm if required.
Cost included with Modular Expansion Joint.

Note B:
9- $\frac{3}{4}$ " ϕ Shear Studs at 6" cts. on exterior face of Beam 7.
11- $\frac{3}{4}$ " ϕ Shear Studs at 6" cts. on exterior face of Beam 14.
Cost included with Furnishing & Erecting Structural Steel.

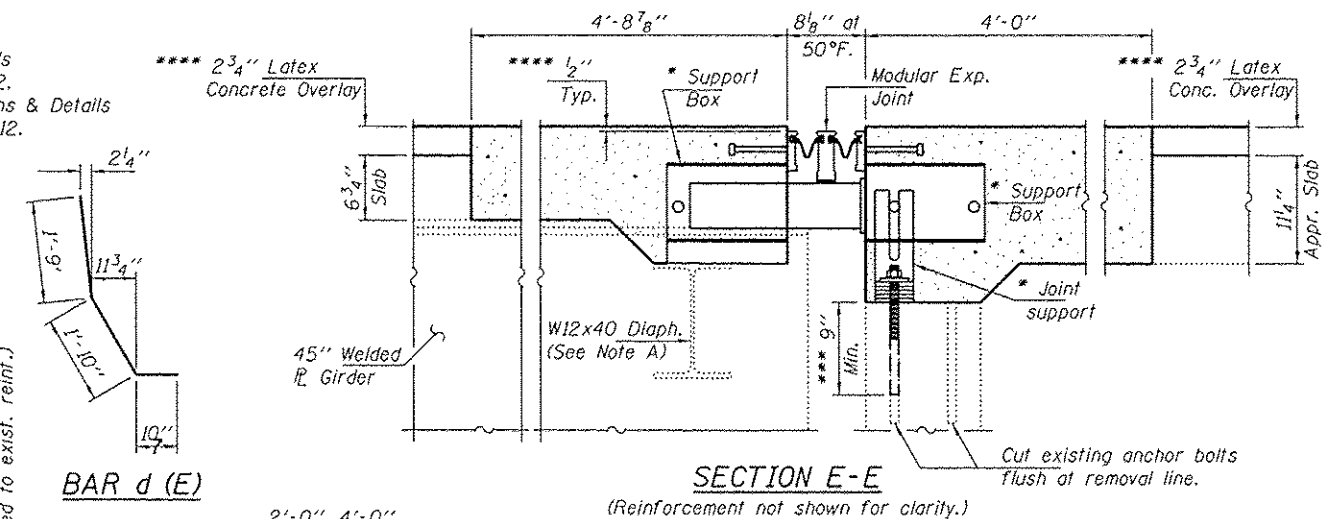
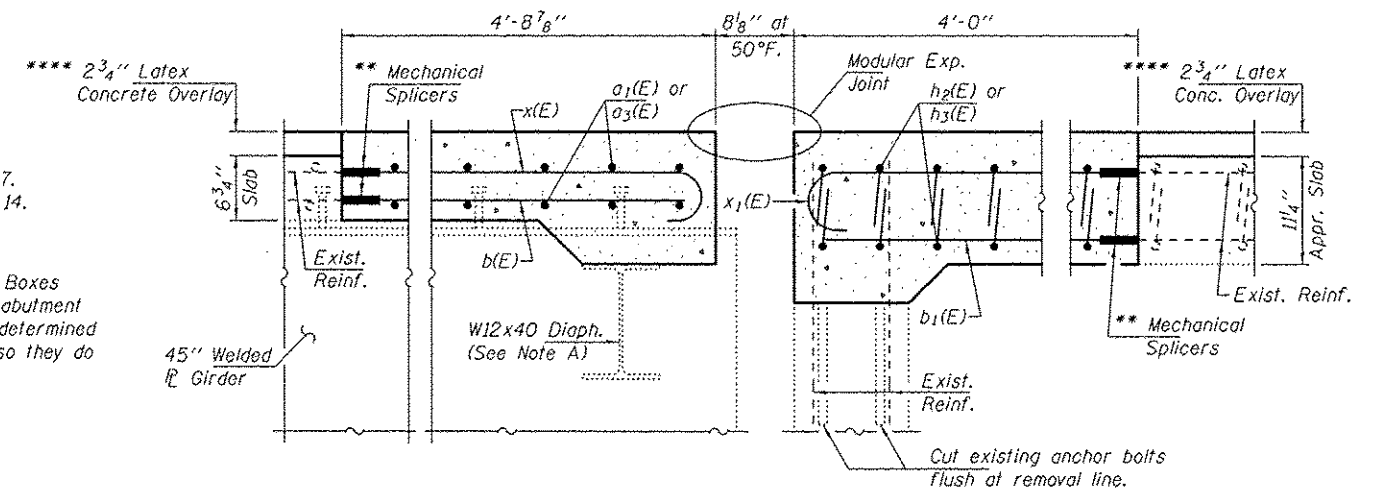
* Support Box spacing per manufacturer. Support Boxes to be rigidly attached to diaphragms, beams and abutment wall by adjustable brackets, stools, or shims as determined by manufacturer. Support Boxes to be spaced so they do not interfere with existing top flange of girders.

** Cut existing reinforcement 6" from removal line to facilitate installation of Mechanical Splicers.

*** Epoxy grout rods in 9" min. holes according to Article 584 of the Standard Specifications.

**** Prior to 1/4" Diamond Grinding.

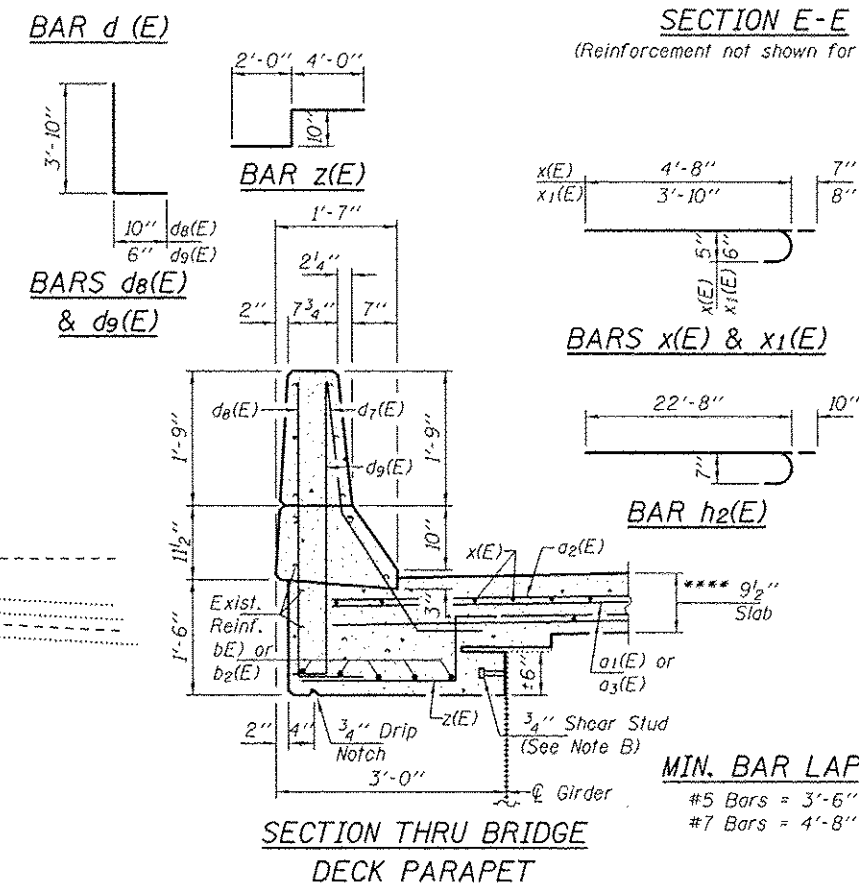
Note:
For reinforcement bending details
not shown see sheets 5 & 9 of 12.
For Approach Parapet Dimensions & Details
and Section F-F, see sheet 9 of 12.

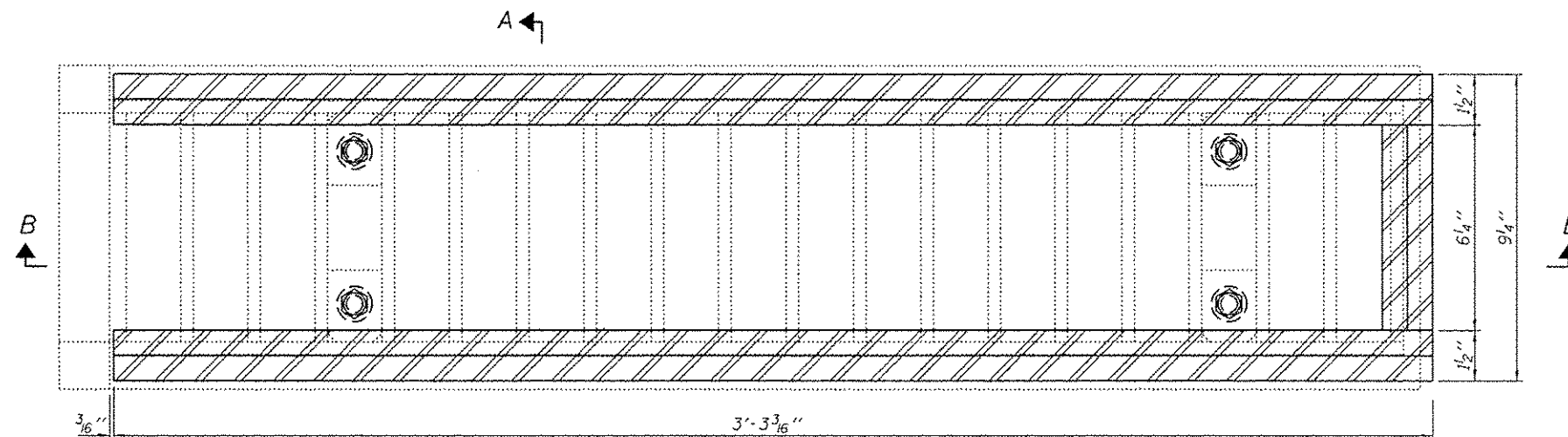


BILL OF MATERIAL

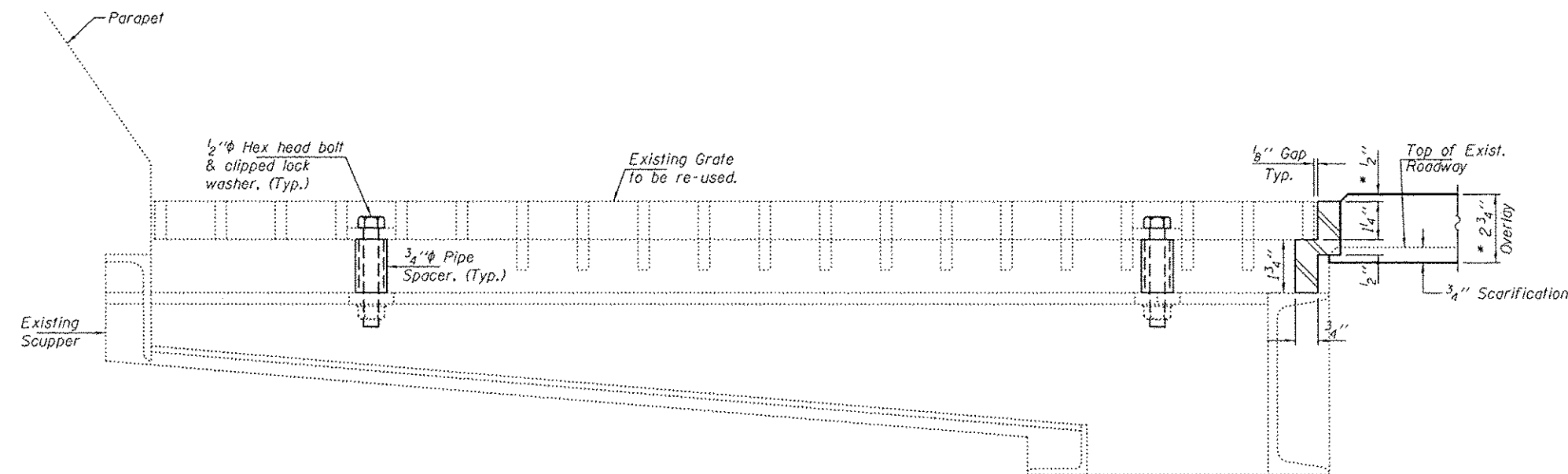
Bar	No.	Size	Length	Shape
a ₁ (E)	16	#5	22'-1"	
a ₂ (E)	16	#6	4'-0"	
a ₃ (E)	32	#5	23'-9"	
b(E)	61	#5	4'-9"	
b ₁ (E)	98	#7	4'-4"	
b ₂ (E)	5	#5	6'-0"	
d ₄ (E)	10	#5	4'-10"	
d ₅ (E)	10	#4	6'-2"	
d ₆ (E)	16	#4	2'-3"	
d ₇ (E)	10	#5	4'-5"	
d ₈ (E)	10	#4	4'-8"	
d ₉ (E)	10	#5	4'-4"	
h ₂ (E)	32	#7	23'-6"	
h ₃ (E)	16	#7	27'-2"	
x(E)	62	#5	5'-3"	
x ₁ (E)	76	#6	4'-6"	
z(E)	16	#6	6'-10"	
Concrete Removal			Cu. Yd.	26.4
Concrete Superstructure			Cu. Yd.	29.9
Bar Splicers			Each	32
Mechanical Splicers			Each	292
Reinforcement Bars, Epoxy Coated			Pound	6090

Bars indicated thus 8 x 2-#5 etc. indicates 8 lines of bars with 2 lengths per line.

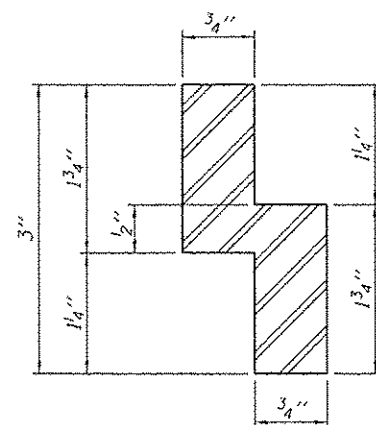




PLAN



SECTION B-B

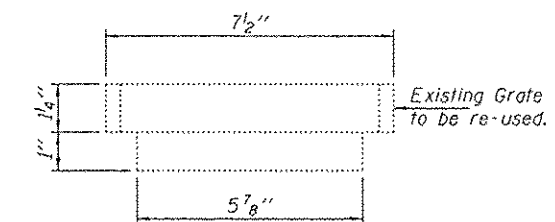


ADJUSTING SCUPPER RING

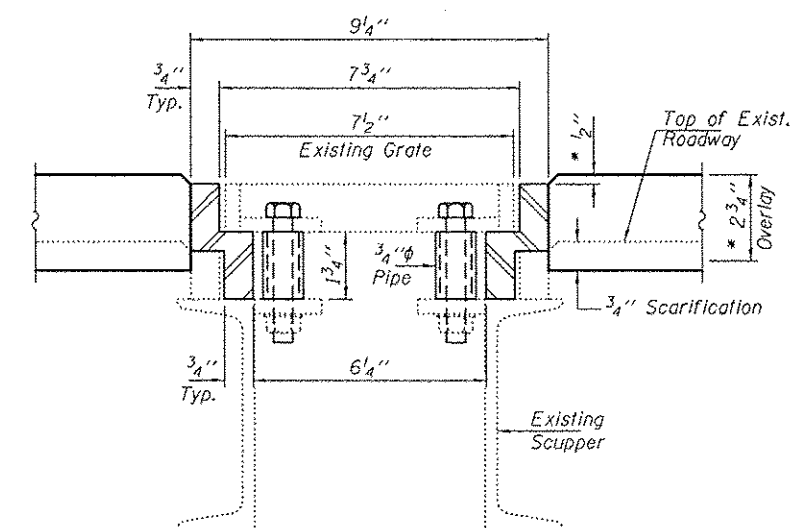
NOTES

See sheet 1 of 12 for scupper locations.
All structural steel shall be AASHTO M270 Grade 36. The adjusting scupper ring and 3/4" pipe sleeve spacers shall be galvanized.
Bolts shall be 1/2" AASHTO M164 Type 1, mechanically galvanized.
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 scope of the work, however, the Contractor will be paid for the quantity actually furnished based at the unit price bid for the work.
Shop plans for proposed adjusting scupper ring shall be submitted for approval prior to fabrication.
Contractor shall ensure that no damage is done to existing grates to be reused.
Cost of all labor and materials necessary to remove existing grates, clean existing scuppers, install adjusting scupper rings and reinstalling grates is included in the cost per unit each for Drainage Scuppers to be Adjusted.

Adjusting Scupper Ring



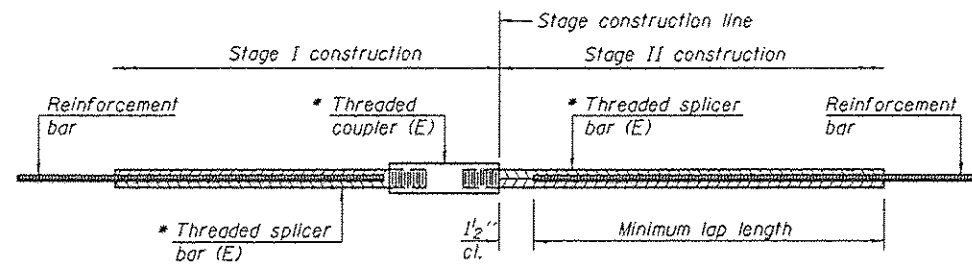
SECTION C-C



SECTION A-A

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Drainage Scuppers to be Adjusted	Each	8

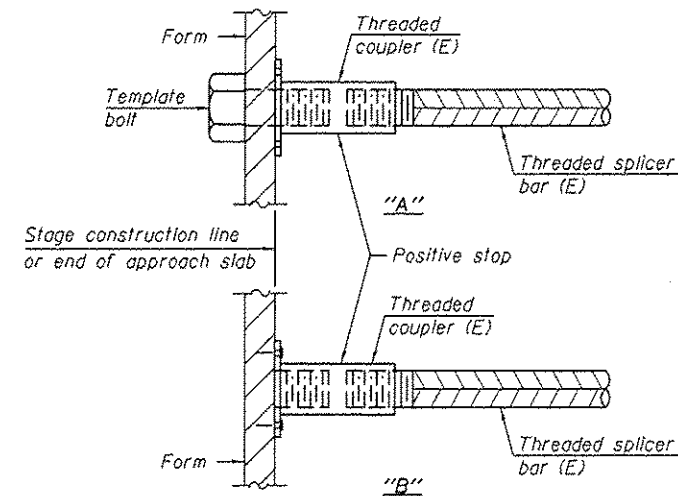


STANDARD BAR SPLICER ASSEMBLY

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

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

Location	Bar size	No. assemblies required	Minimum lap length
West Abutment	#5	10	3'-6"
West Abutment	#6	4	4'-0"
Pier 2	#5	16	3'-6"
East Abutment	#5	16	3'-6"
East Abutment	#7	16	4'-8"

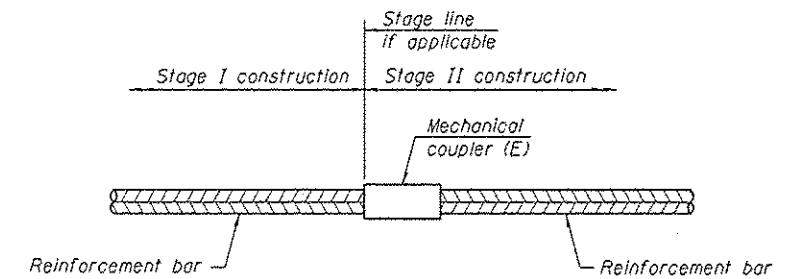


INSTALLATION AND SETTING METHODS

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

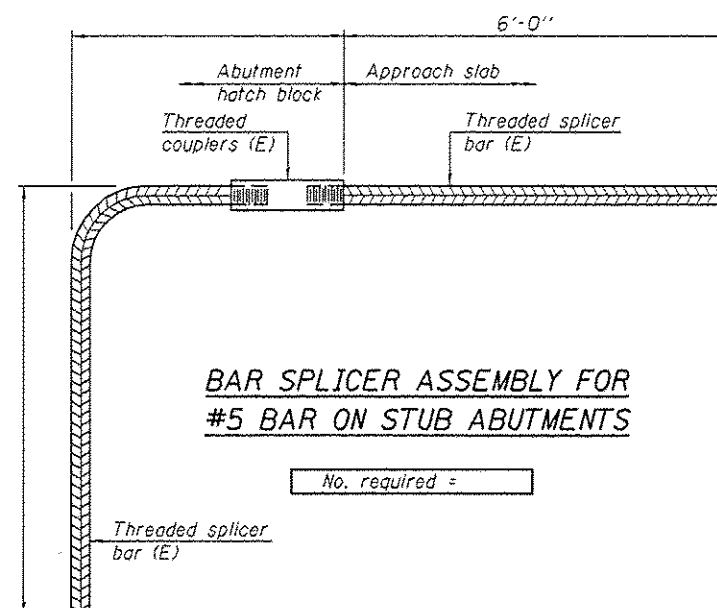
"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

(E) : Indicates epoxy coating.



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required
East Abutment	#5	118
East Abutment	#6	76
East Abutment	#7	98



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

DESIGNED SMR	CHECKED JGY	DRAWN Steffen	CHECKED SMR JGY	DATE DECEMBER 1, 2016	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS SN 092-0015 (E.B.)	SHEET NO. 12 OF 12 SHEETS	F.A.I. RTE. 74	SECTION 192-12B1	COUNTY VERMILION	TOTAL SHEETS 51	SHEET NO. 27	CONTRACT NO. 70B71	ILLINOIS FED. AID PROJECT
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AS-BUILT PLANS
FOR INFORMATION ONLY

AS-BUILT PLANS

RE: GEORGE R. DAVIS
CONTRACTOR: ONEIL BROTHERS

STARTED: 6-18-90

COMPLETED: 10-1-93
10-14-94

FOR INDEX OF SHEETS, SEE SHEET NO. 7
FOR SUMMARY OF QUANTITIES, SEE SHEET NO. 9-12 (INCL.)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

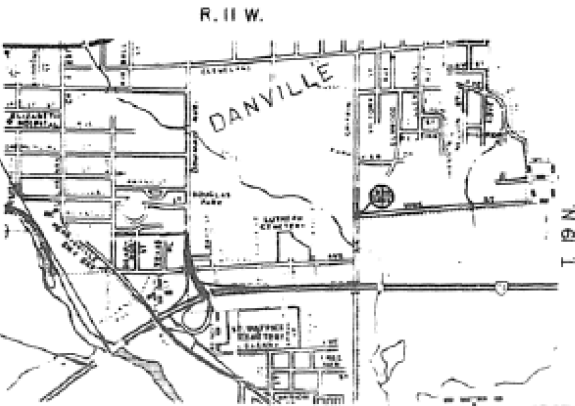
PLANS FOR PROPOSED
FEDERAL AID INTERSTATE HIGHWAY

PLAN 1" = 20'
PROFILE 1" = 20'
CROSS-SECTION 1" = 2'

F.A.I. ROUTE 74
SECTION (92-12B) BR
VERMILION COUNTY
PROJECT ACIR 74-6(129)2 16
C-95-077-89

BRIDGE REPLACEMENT

Existing Structure - Structures 092-0014 + 092-0015 were built in 1963 as F.A.I. 74 Section 92-12B. Each structure consist of five continuous spans of two steel plate girders with steel floor beams and reinforced concrete deck superstructure with double column piers and vaulted abutments. Overall length is 583'-9 1/4", and clear roadway width is 30'-0". The structures are located at Station 1992+54.00 across the Vermilion River.



SECTION (92-12B) BR PROJECT
BEGINS STATION 1988+60

SECTION (92-12B) BR PROJECT
ENDS STATION 2001+95

TOTAL LENGTH OF SECTION 192-12B AND PROJECT = 1,335.00 feet = 0.253 miles
NET LENGTH OF SECTION 192-12B AND PROJECT = 1,335.00 feet = 0.253 miles

DESIGN DESIGNATION

1992 (94) TRUNK 6/12 (COMP-6-1 1-1)

CONTRACT NUMBER 90045

PROJECT ENGINEER: D.L. PIPER
SQUAD LEADER: S. LOCKEY

BY	SECTION	COUNTY	TOTAL SHEETS
FAI 74	192-12B	VERMILION	51
FAI 74	192-12B	VERMILION	29

D-95-026-89



LOCATION OF SECTION INDICATED THUS: -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS	
DESIGNED BY	March 28, 1990
DESIGNED BY	D. L. Piper
DESIGNED BY	March 28, 1990
DESIGNED BY	D. L. Piper
DESIGNED BY	March 28, 1990
DESIGNED BY	D. L. Piper

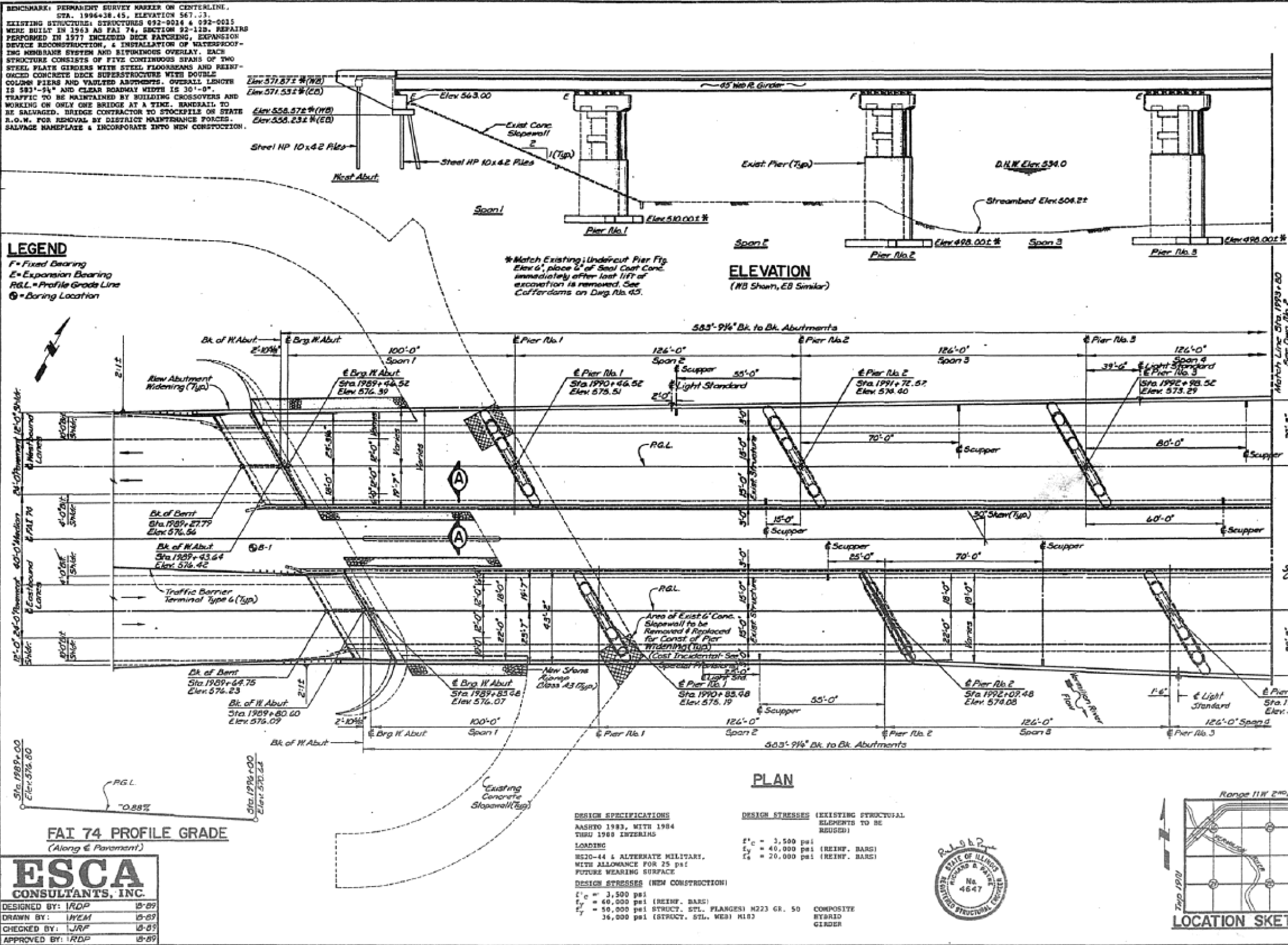
U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION	
APPROVED	
DIVISION ADMINISTRATOR	DATE

TOLL FREE JULI.E. TELEPHONE NO
1-800-892-0123
DANVILLE TOWNSHIP

VERMILION COUNTY section 192-12B BR F.A.I. Route 74

FILE NAME :	USER NAME : showleres	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	AS BUILT (FOR INFORMATION ONLY) S.N. 092-0015 (EB)	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\11084EBID\INTEG\illinois.gov\PIWIDOT\Documents\DOT Offices\District 5\Projects\0577\Drawings\Structures\0570871-shr-Repov		CHECKED -	REVISED -			74	(92-12B)I	VERMILION	51	29
\$MODELNAME\$	PLOT DATE : 9/8/2016	DATE -	REVISED -						CONTRACT NO.	70871
						SCALE:	SHEET 1	OF 16	SHEETS	TO STA.
									ILLINOIS	FED. AID PROJECT

AS-BUILT PLANS
FOR INFORMATION ONLY



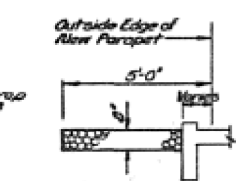
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI-74	*	Vermilion	117	89
STA.	TO STA.	ILLINOIS	PROJECT	
X(92-12B)BR				

STATION 1992+54.00
BUILT 199 BY
STATE OF ILLINOIS
FAI RTE. 74 SECTION (92-12B)BR
F.A. PROJ. ACB-74-1(129)
LOADING HS20 & ALT.
STR. NO. 092-0014

STATION 1992+54.00
BUILT 199 BY
STATE OF ILLINOIS
FAI RTE. 74 SECTION (92-12B)BR
F.A. PROJ. ACB-74-1(129)
LOADING HS20 & ALT.
STR. NO. 092-0015

NEW NAME PLATES
(1 EA. REQ'D)
(SEE STD. 2113)

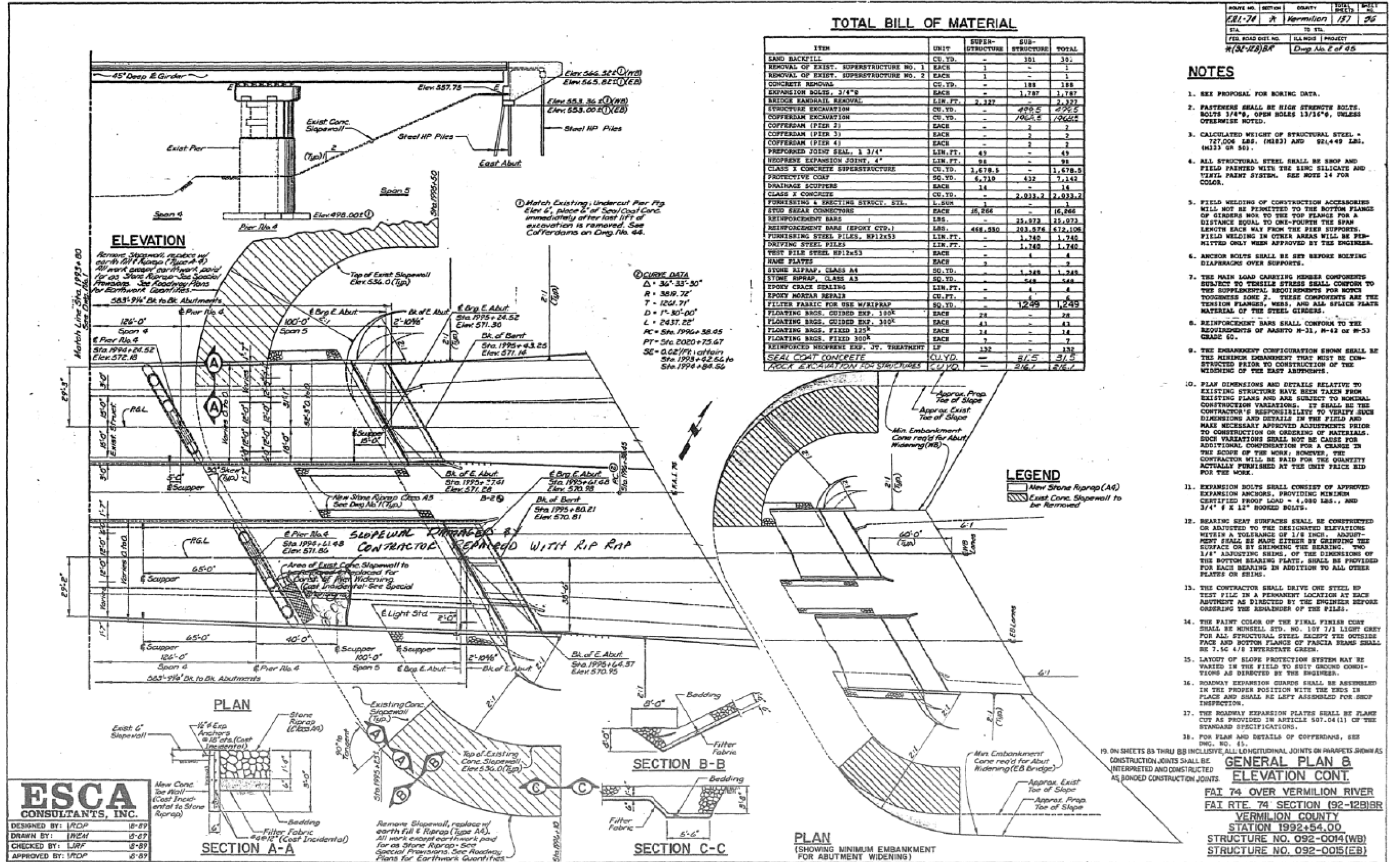
Notes:
Salvage Existing Name Plates &
Mount Adjacent to New Name
Plates on New Parapet as shown
on Std. 2113. The cost of Salvaging
& Incorporating Existing Name Plates
into New Work is Incidental.



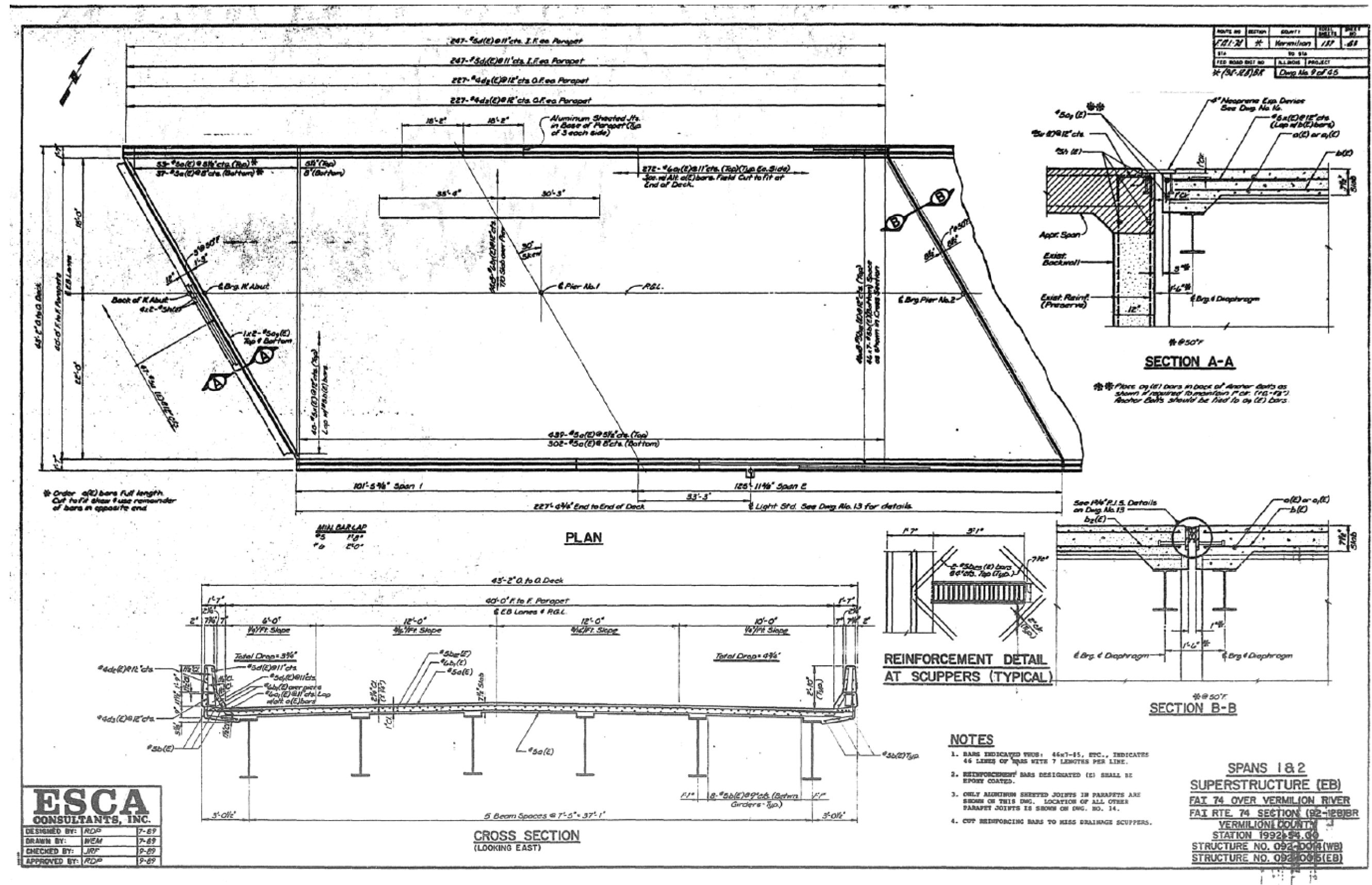
SECTION A-A

GENERAL PLAN
& ELEVATION
FAI 74 OVER VERMILION RIVER
FAI RTE. 74 SECTION (92-12B)BR
VERMILION COUNTY
STATION 1992+54.00
STRUCTURE NO. 092-0014(WB)
STRUCTURE NO. 092-0015(EB)

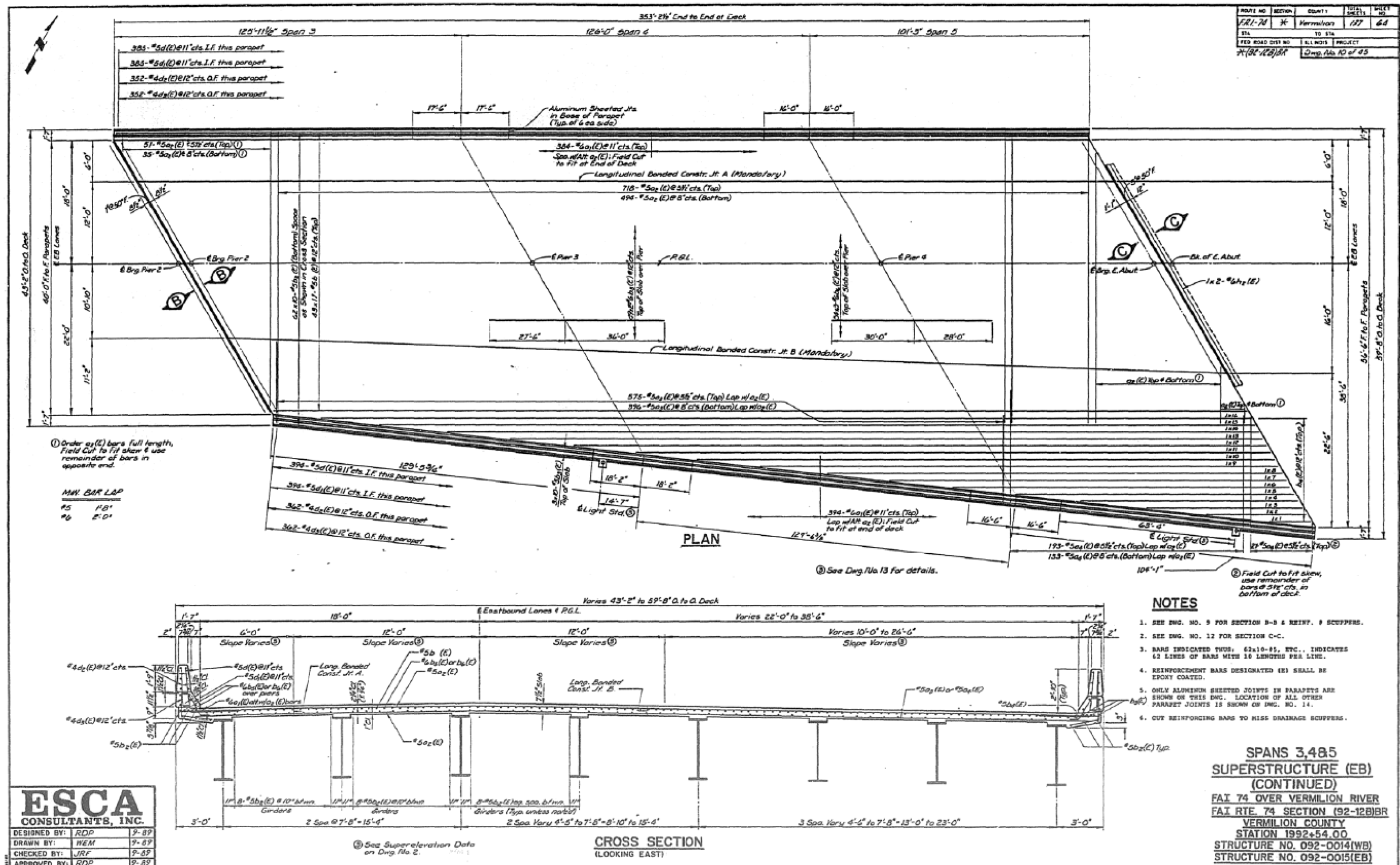
AS-BUILT PLANS
FOR INFORMATION ONLY



AS-BUILT PLANS
FOR INFORMATION ONLY



AS-BUILT PLANS
FOR INFORMATION ONLY

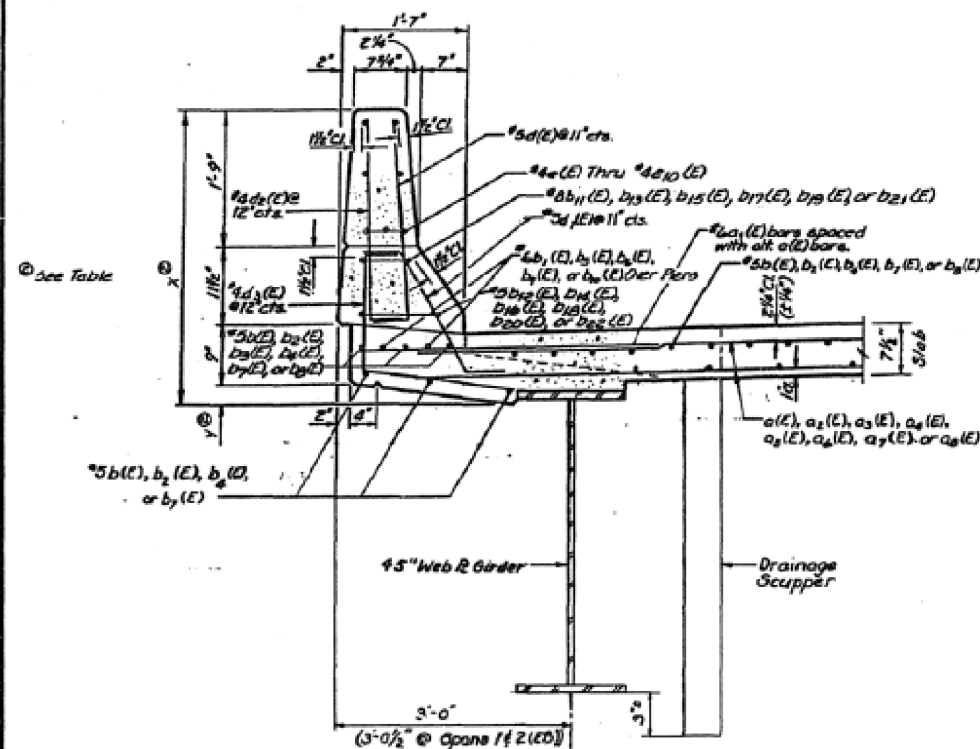


AS-BUILT PLANS
FOR INFORMATION ONLY

ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
PAV-70	*	Vermilion	137	67
STA		TO STA		
FED ROAD DIST NO		ILLINOIS	PROJECT	
* (32-128) RR		Dwg No 13 of 45		

NOTES

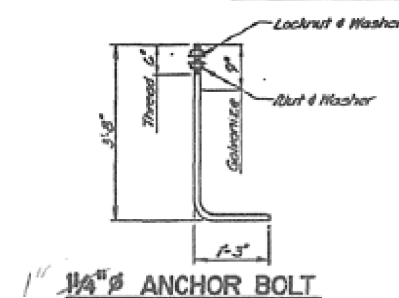
1. SEE DWG. NOS. 17 & 18 FOR SCUFFER DETAILS.
2. SEE DWG. NO. 16 FOR DETAILS OF NEOPHENE JOINT.



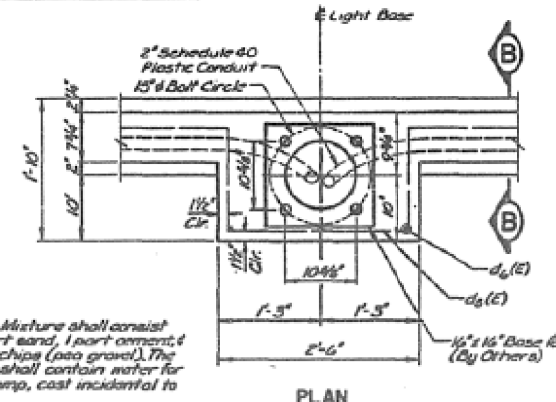
SECTION THRU PARAPET

TABLE OF X & Y DIMENSIONS

LOCATION	X	Y
SPANS 1 & 2 ED	3'-0 5/8"	3 1/8"
SPANS 3, 4, & 5 EB, W. SIDE	3'-0 3/8"	3 7/8"
SPANS 3, 4, & 5 ED, S. SIDE	3'-0 1/2"	3"
WB, W. SIDE	3'-0 3/8"	3 7/8"
WB, S. SIDE	3'-0 1/2"	3"

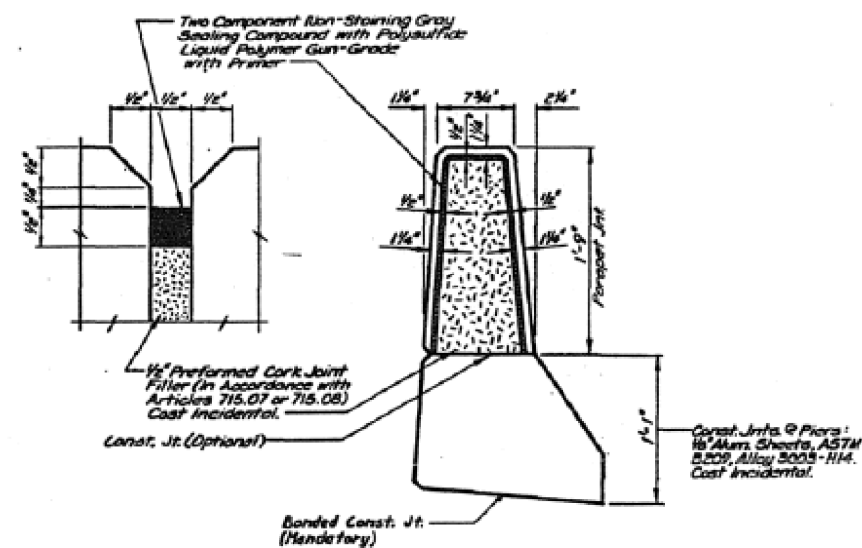


1" 1 1/4" Ø ANCHOR BOLT



PLAN

DETAIL OF LIGHT STANDARD



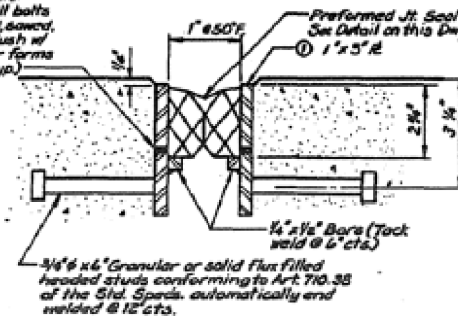
DETAILS OF PARAPET JOINT

(See DWG. No's 14 & 15 for Locations of These Joints)

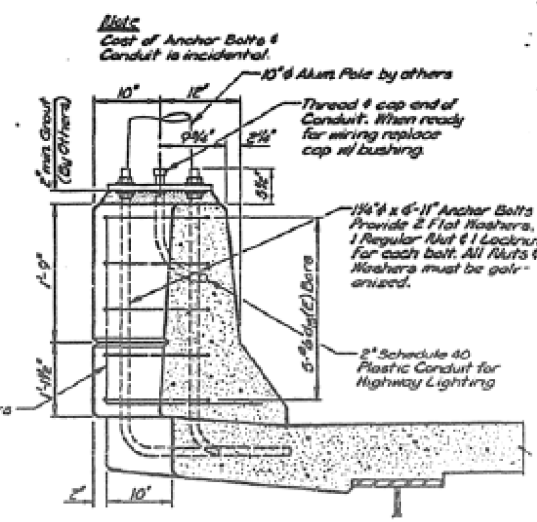
Note
After Fabrication All Surfaces
of the Stl. It's shall be given
One Shop Coat of the Zinc
Silicate & Vinyl Paint System.

*File & Holes @ 12" cts.
For 1/2" & Bolts. All bolts
shall be turned, sawed
or chipped off flush w/
the plates after form
are removed (Typ.)—*

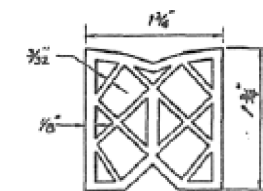
① Furnish in segments of 20ft maximum length. Maximum space between installed segments shall be $\frac{1}{16}$ ". Seal space with Silicone Sealant suitable for Structural Steel.



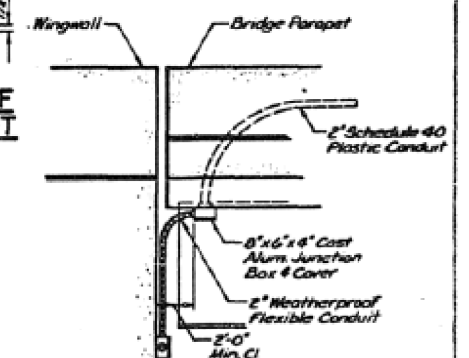
SECTION AT PIER 2 (EB)



SECTION B-B

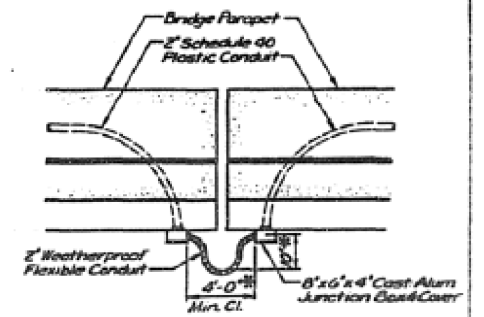


PREFORMED
JOINT SEAL (1 3/4")



AT ABUTMENTS

S. Corner, H. Abut: EB Lanes Shown:
S. Corner E. Abut: EB Lanes
N. Corner H. Abut: NB Lanes +
N. Corner E. Abut: NB Lanes Survivor:



AT SOUTH PARAPET, EB LANES
PIER 2

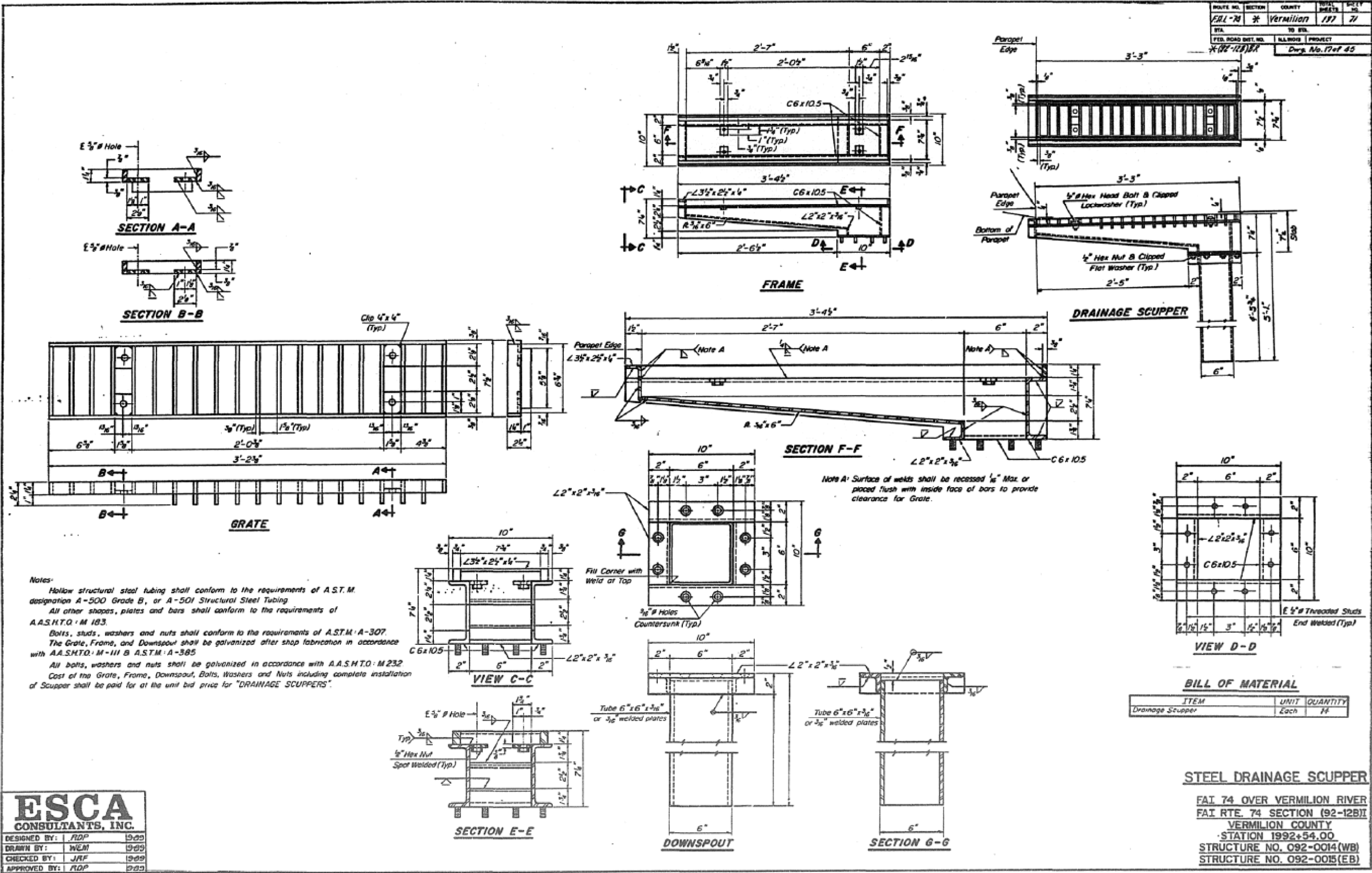
Note
Cost of Plastic & Flexible Conduit, Junction Boxes, & Anchor Bolts is incidental to Glass & Concrete Superstructure.

FLEXIBLE CONDUIT DETAILS

SUPERSTRUCTURE DETAILS

FAI 74 OVER VERMILION RIVER
FAI RTE. 74 SECTION (92-12)BR
VERMILION COUNTY
STATION 1992+54.00
STRUCTURE NO. 092-0014(WB)
STRUCTURE NO. 092-0015(EB)

AS-BUILT PLANS
FOR INFORMATION ONLY



FILE NAME :	USER NAME : shawler	DESIGNED -	REVISED -
p:\1\084EBID\TEG\Illinois.gov\PI\DOT\Documents\DOT Offices\District 5\Projects\0577\Drawings\Structures\05770871-sht-Rep\		DRAWN -	REVISED -
\$MODELNAME\$		CHECKED -	REVISED -
		DATE -	REVISED -

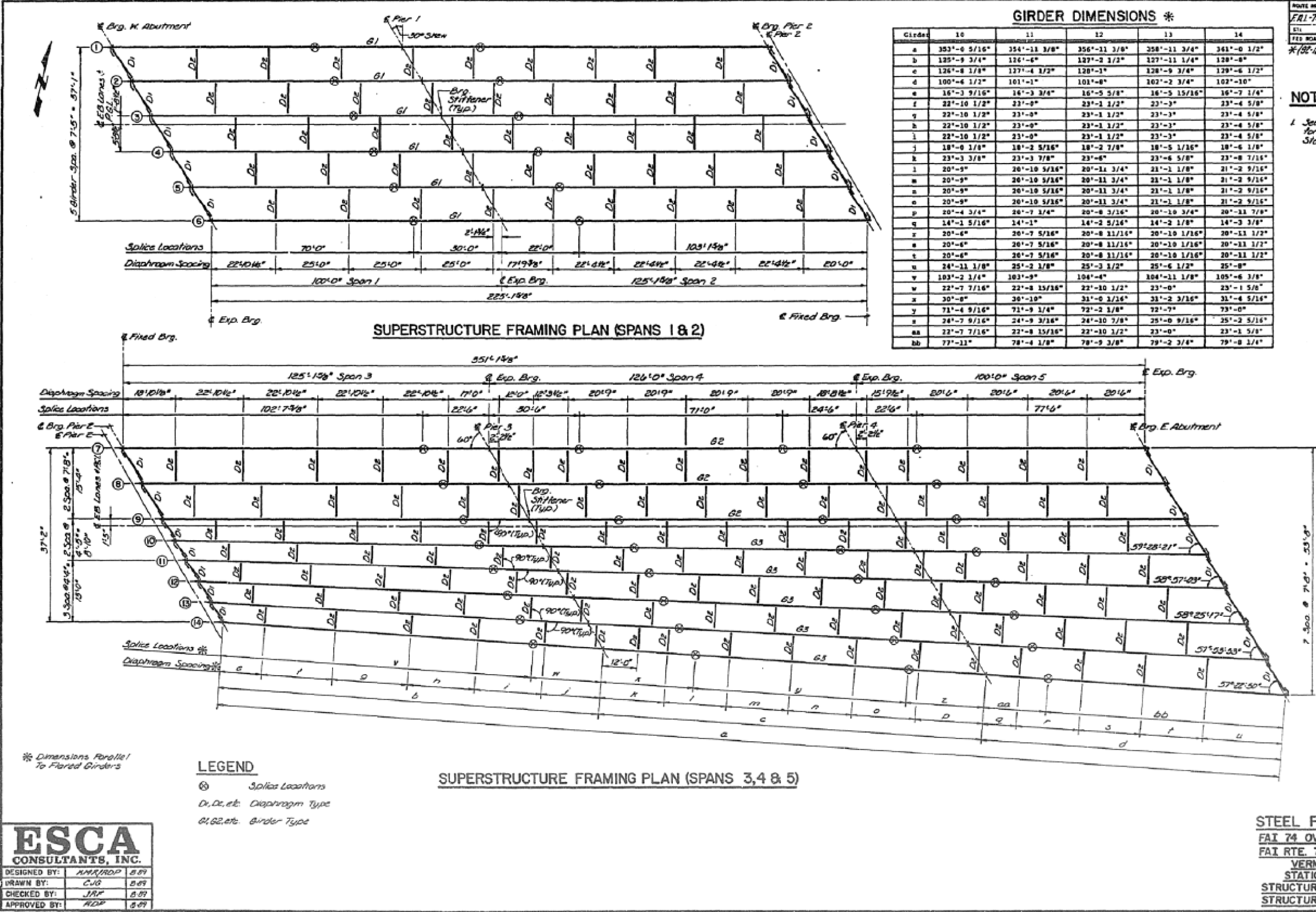
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS BUILT (FOR INFORMATION ONLY)
S.N. 092-0015 (EB)

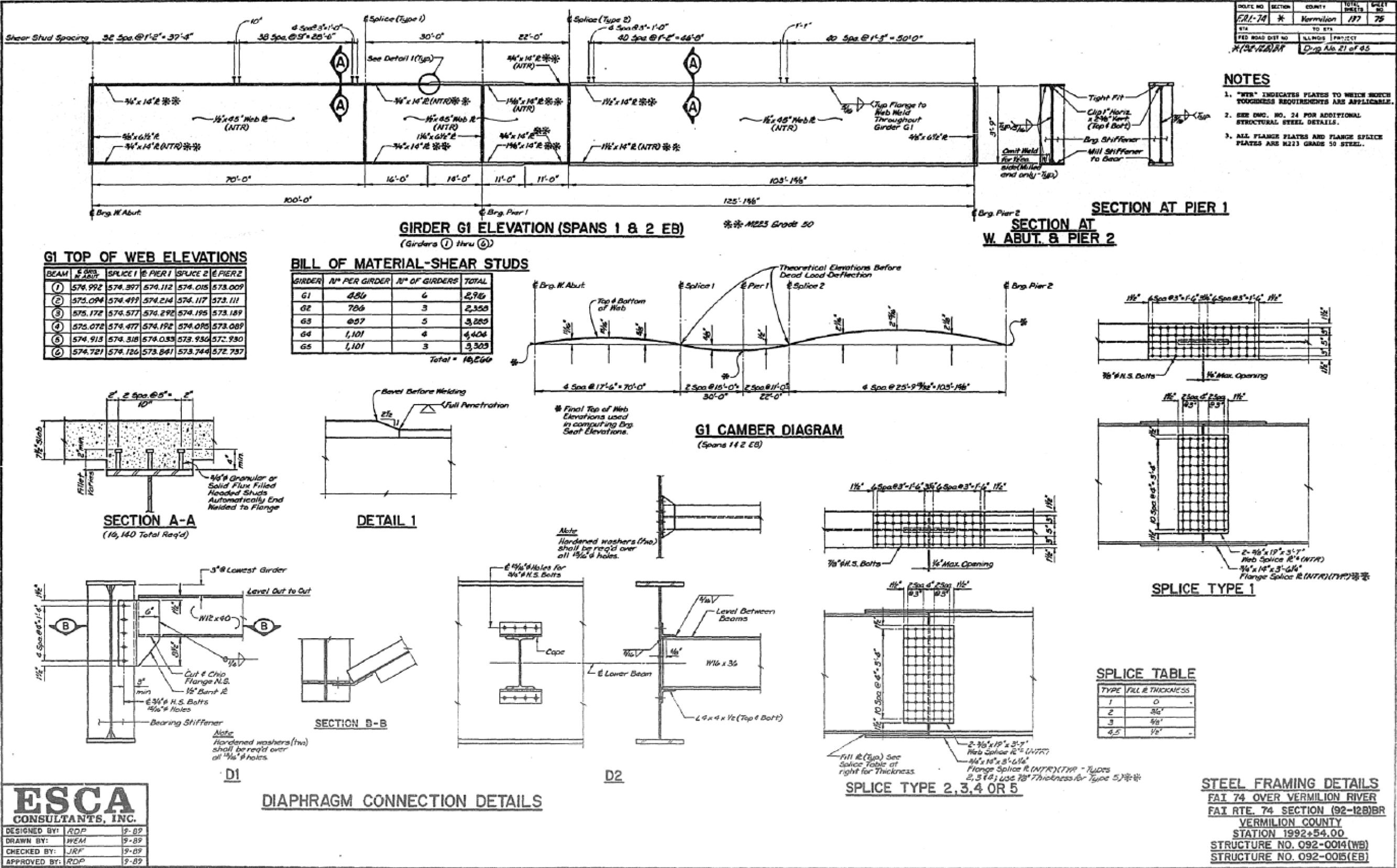
SCALE: SHEET 7 OF 16 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12B)I	VERMILION	51	35
		CONTRACT NO.		70871
		ILLINOIS FED. AID PROJECT		

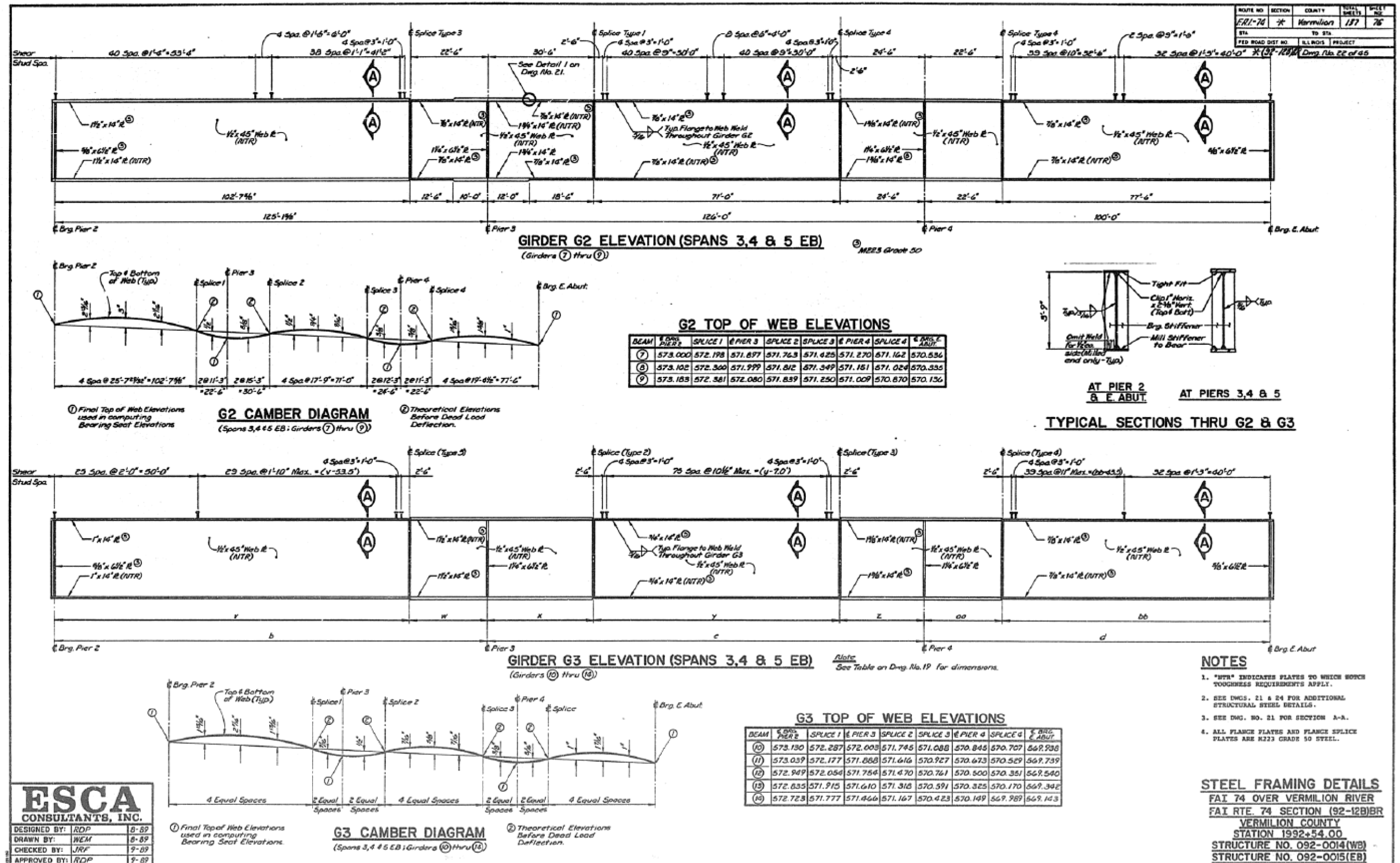
AS-BUILT PLANS
FOR INFORMATION ONLY



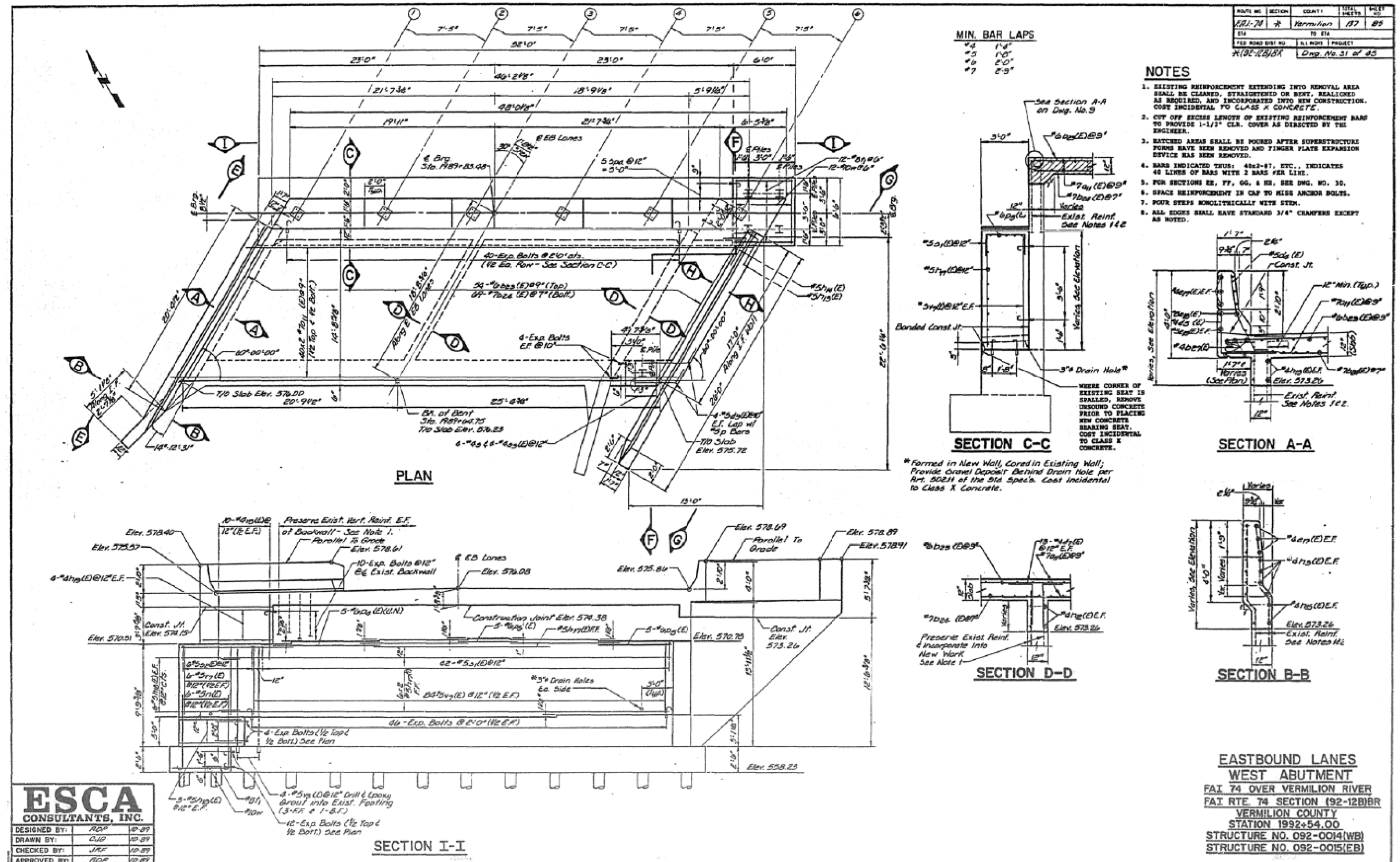
AS-BUILT PLANS
FOR INFORMATION ONLY



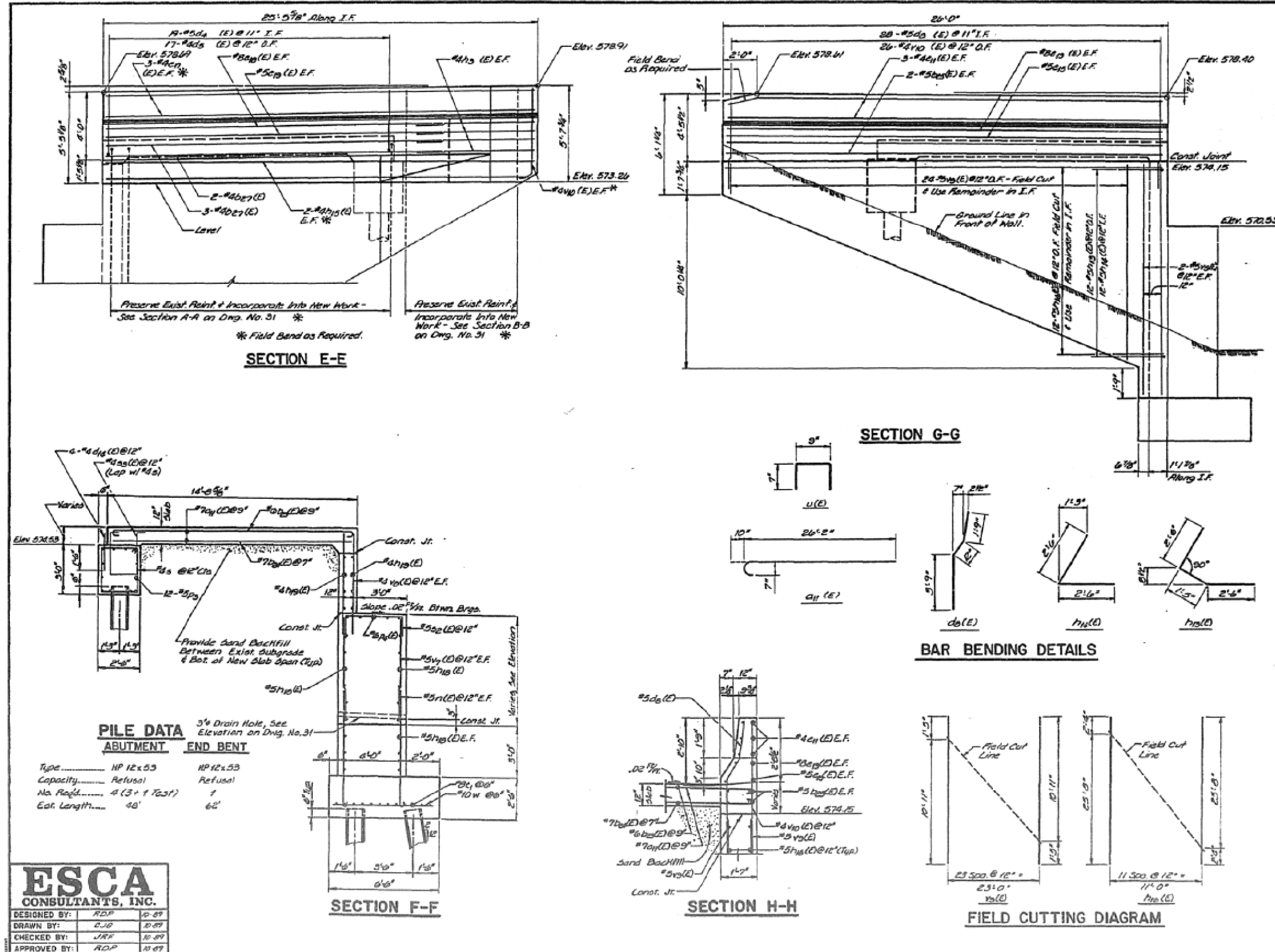
**AS-BUILT PLANS
FOR INFORMATION ONLY**



AS-BUILT PLANS
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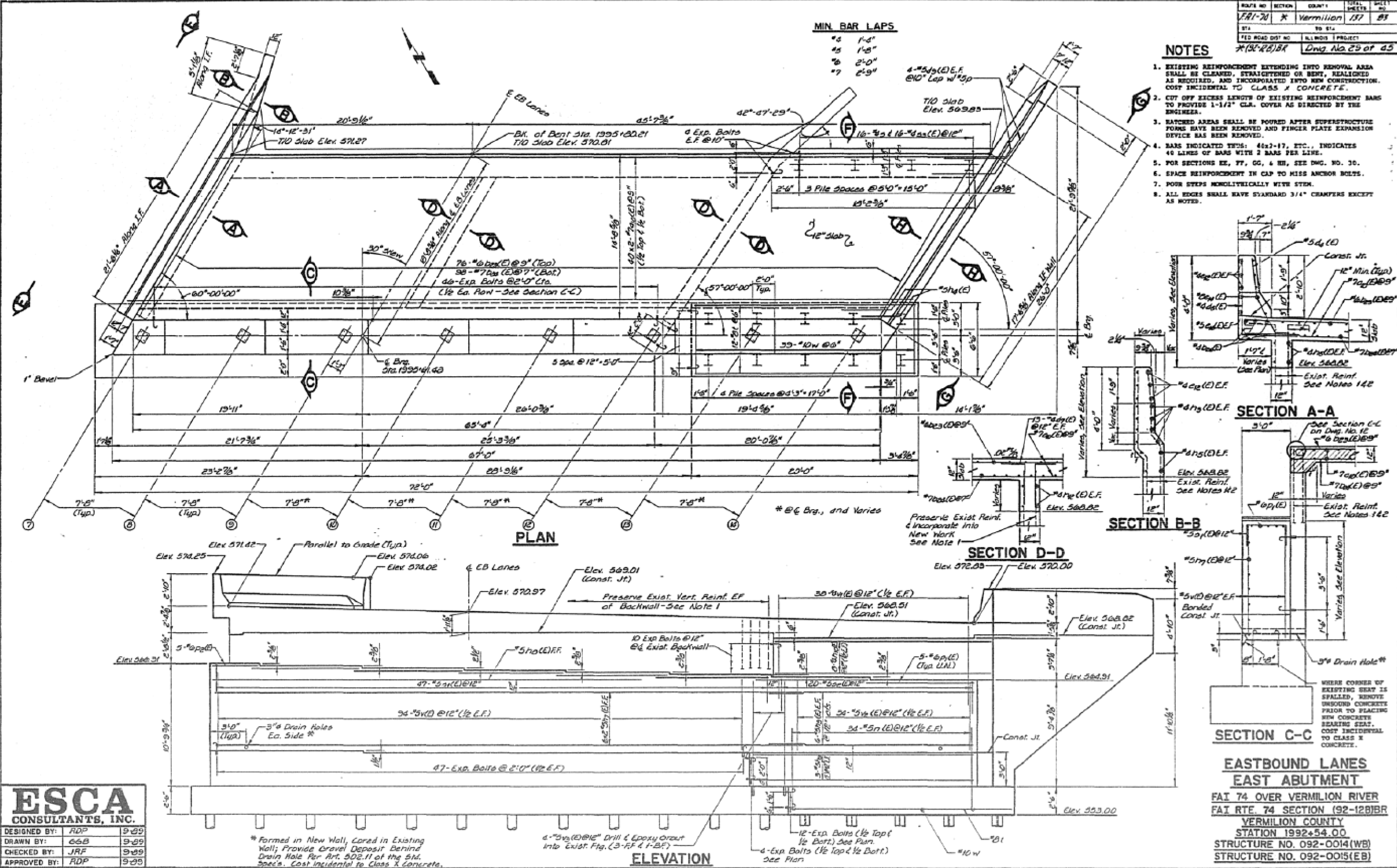


ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
191-74	A	Wernholm	137	86
STA		TO STA		
FED ROAD DIST NO		ILLINOIS PROJECT		
A(92-128)BR		Env. No 32 of 45		

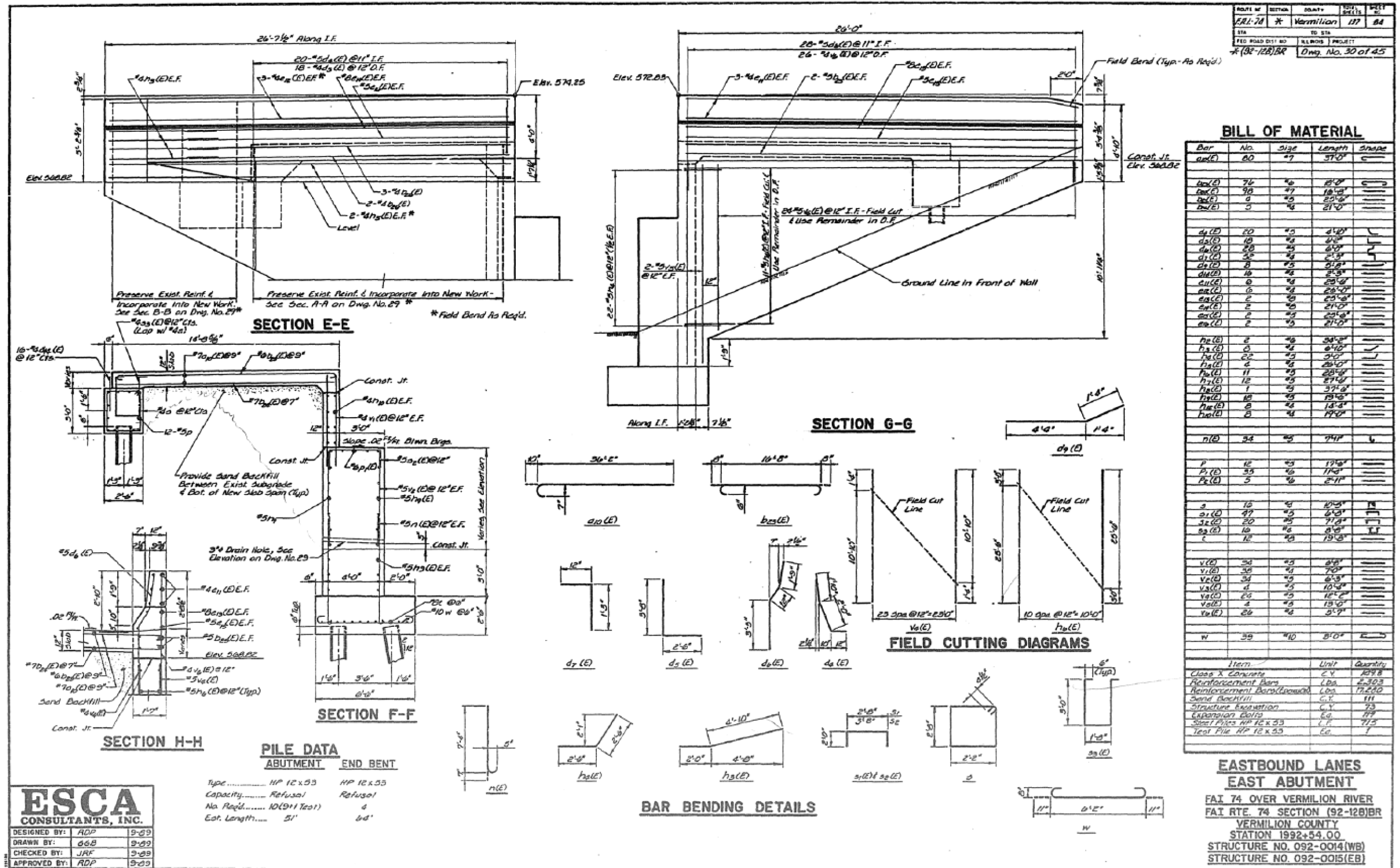
BILL OF MATERIAL				
Bar	No	Size	Length	Shape
a11(E)	80	#7	27'0"	1
b1a(E)	34	#6	4'0"	1
b1a(E)	60	#7	6'8"	1
b1a(E)	4	#3	23'6"	1
b1a(E)	3	#4	20'6"	1
d1 (E)	14	#5	4'0"	1
d1 (E)	17	#4	6'8"	1
d7 (E)	28	#4	7'3"	1
d1 (E)	28	#5	6'6"	1
d3	6	#5	3'0"	1
d11(E)	6	#6	2'3"	1
e11(E)	6	#4	25'6"	1
e11(E)	2	#8	25'6"	1
e11(E)	2	#6	25'6"	1
e11(E)	6	#4	25'0"	1
e11(E)	6	#8	26'2"	1
e11(E)	2	#5	26'2"	1
f1(E)	8	#5	26'10"	1
f2(E)	8	#4	2'8"	1
f12(E)	8	#4	13'4"	1
f12(E)	12	#5	6'3"	1
f11(E)	12	#5	5'0"	1
f11a(E)	4	#4	25'0"	1
f11a(E)	12	#3	26'0"	1
f12(E)	13	#3	22'0"	1
f11a(E)	16	#5	6'8"	1
f12(E)	8	#4	4'6"	1
g1(E)	6	#5	7'11"	1
h3	12	#5	4'9"	1
h4(E)	20	#6	11'0"	1
h4(E)	10	#6	9'0"	1
i	4	#4	21'3"	1
i1(E)	42	#5	6'4"	1
i2(E)	6	#5	7'3"	1
i2a(E)	4	#6	8'8"	1
j	12	#8	6'2"	1
u6(E)	87	#5	7'11"	1
v1(E)	90	#5	6'7"	1
v1(E)	10	#5	6'1"	1
v1a(E)	4	#4	10'4"	1
v1a(E)	4	#5	13'0"	1
v1a(E)	24	#5	12'4"	1
v1a(E)	28	#6	6'0"	1
w	12	#10	8'0"	1
Item	Unit	Quantity		
Class A Concrete	CY	100.2		
Reinforcement Bars	Lbs	846		
Panel Bars (Rebar Casters)	Lbs	12,293		
Spigot Castings	CY	45		
Structure Erection	EQ	112		
Expansion Bars	EQ	200		
Steel Pipe 12" ID x 33	EQ	1		
Test Pipe Steel 12" ID x 33	EQ	1		

EASTBOUND LANES
WEST ABUTMENT
FAI 74 OVER VERMILION RIVER
FAI RTE. 74 SECTION (92-12B)BR
VERMILION COUNTY
STATION 1992+54.00
STRUCTURE NO. 092-0014(WB)
STRUCTURE NO. 092-0015(EB)

AS-BUILT PLANS
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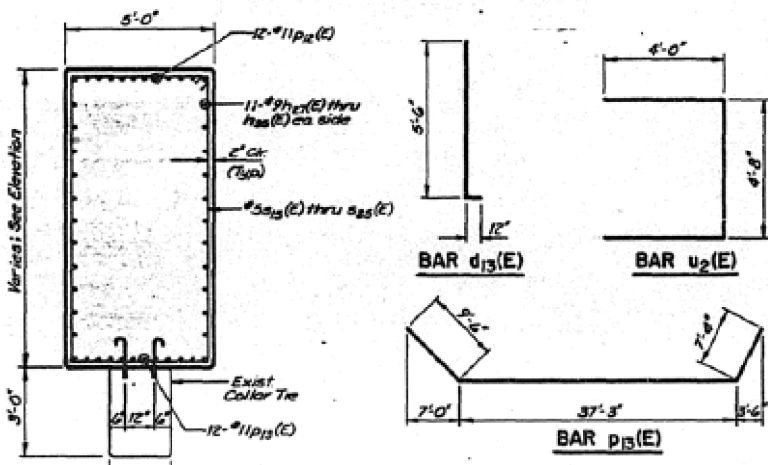
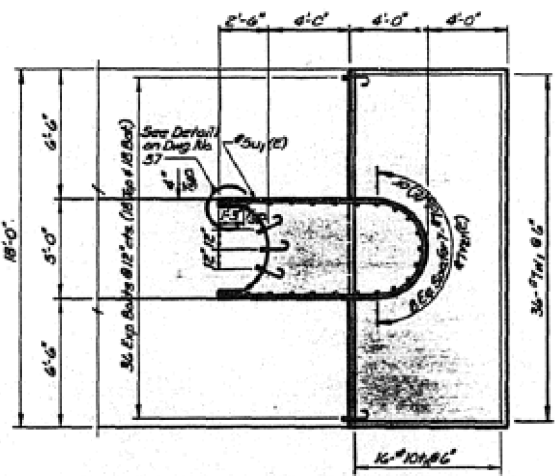
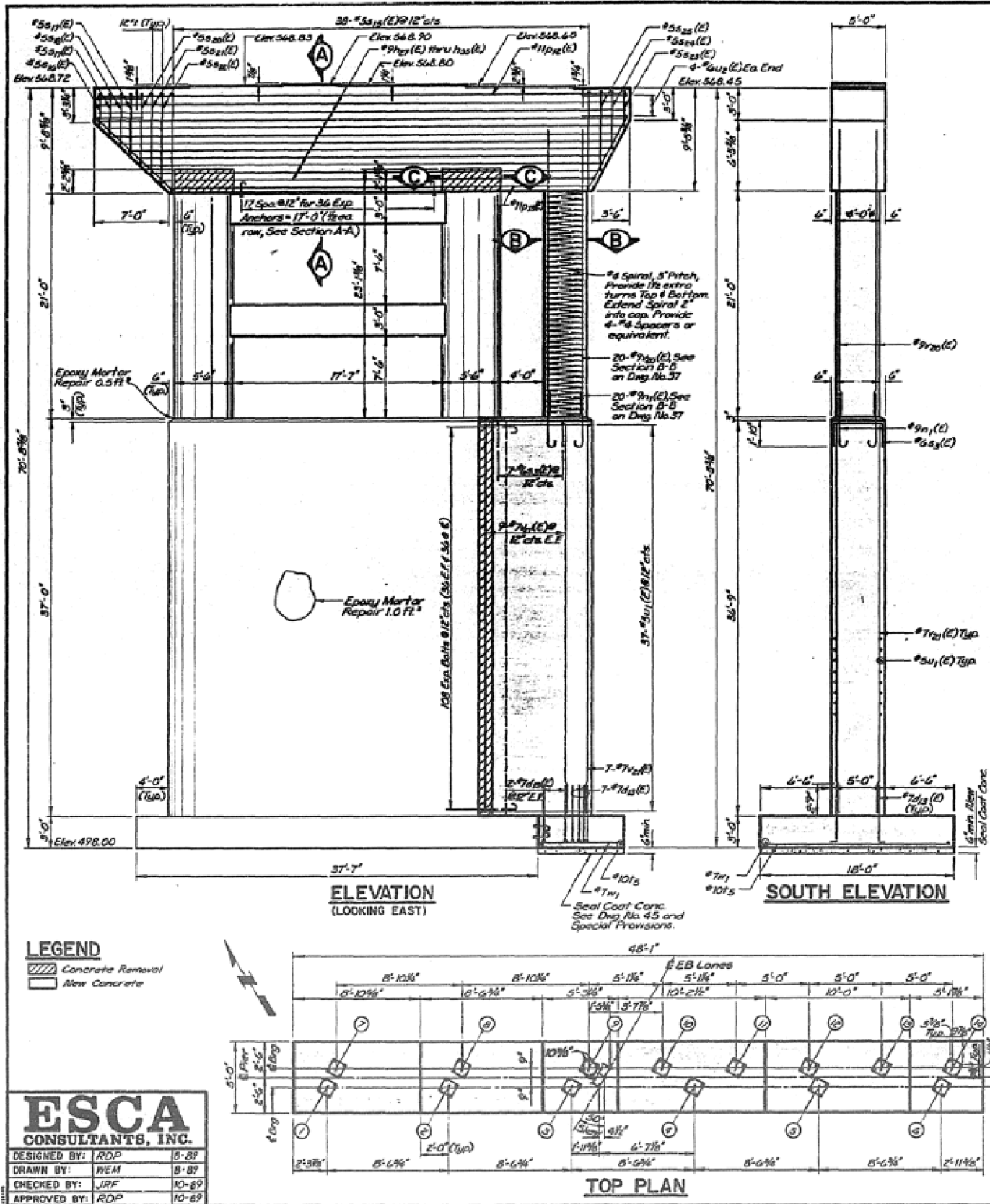


TABLE OF "A" DIMENSIONS

BAR	"A"	BAR	"A"	BAR	"A"
S ₁₅ (E)	9'-1"	S ₁₆ (E)	5'-10"	S ₁₇ (E)	2'-10"
S ₁₈ (E)	3'-0"	S ₁₉ (E)	6'-9"	S ₂₀ (E)	4'-8"
S ₂₁ (E)	4'-0"	S ₂₂ (E)	7'-8"	S ₂₃ (E)	6'-6"
S ₂₄ (E)	4'-11"	S ₂₅ (E)	5'-7"		

BAR BENDING DETAILS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI-74	X	Vermilion	137	96

STA.	TO STA.
192+54.00	192+54.00

FED. ROAD DIST. NO.	ILLINOIS PROJECT
X(34-28)JST	Dwg. No. 38 of 45

- NOTES**
- SEE ENG. NO. 37 FOR SECTION B-B, SECTION C-C, AND ADDITIONAL BAR BENDING DETAILS.
 - SEE ENG. NO. 45 FOR COFFERDAM DETAILS.

BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
d ₁₃ (E)	11	#7	6'-8"	┐
h ₁₂ (E)	4	#9	47'-6"	—
h ₁₃ (E)	2	#9	46'-9"	—
h ₁₄ (E)	2	#9	45'-4"	—
h ₁₅ (E)	2	#9	44'-4"	—
h ₁₆ (E)	2	#9	43'-2"	—
h ₁₇ (E)	2	#9	42'-10"	—
h ₁₈ (E)	2	#9	39'-8"	—
h ₁₉ (E)	2	#9	38'-6"	—
n ₁ (E)	20	#9	8'-0"	J
p ₁₂ (E)	12	#11	47'-7"	—
p ₁₃ (E)	12	#11	36'-1"	—
s ₁ (E)	7	#6	9'-0"	┐
s ₂ (E)	38	#5	28'-5"	┐
s ₃ (E)	1	#5	16'-3"	┐
s ₄ (E)	1	#5	18'-3"	┐
s ₅ (E)	1	#5	20'-1"	┐
s ₆ (E)	1	#5	21'-11"	┐
s ₇ (E)	1	#5	23'-9"	┐
s ₈ (E)	1	#5	25'-7"	┐
s ₉ (E)	1	#5	27'-8"	┐
s ₁₀ (E)	1	#5	15'-11"	┐
s ₁₁ (E)	1	#5	19'-7"	┐
s ₁₂ (E)	1	#5	23'-3"	┐
s ₁₃ (E)	1	#5	21'-2"	┐
t ₂	16	#10	17'-6"	—
u ₂ (E)	8	#6	12'-8"	┐
u ₁ (E)	37	#5	23'-0"	┐
v ₁₁ (E)	25	#7	36'-8"	—
v ₂₀ (E)	20	#9	26'-6"	—
w ₁	36	#7	7'-6"	—

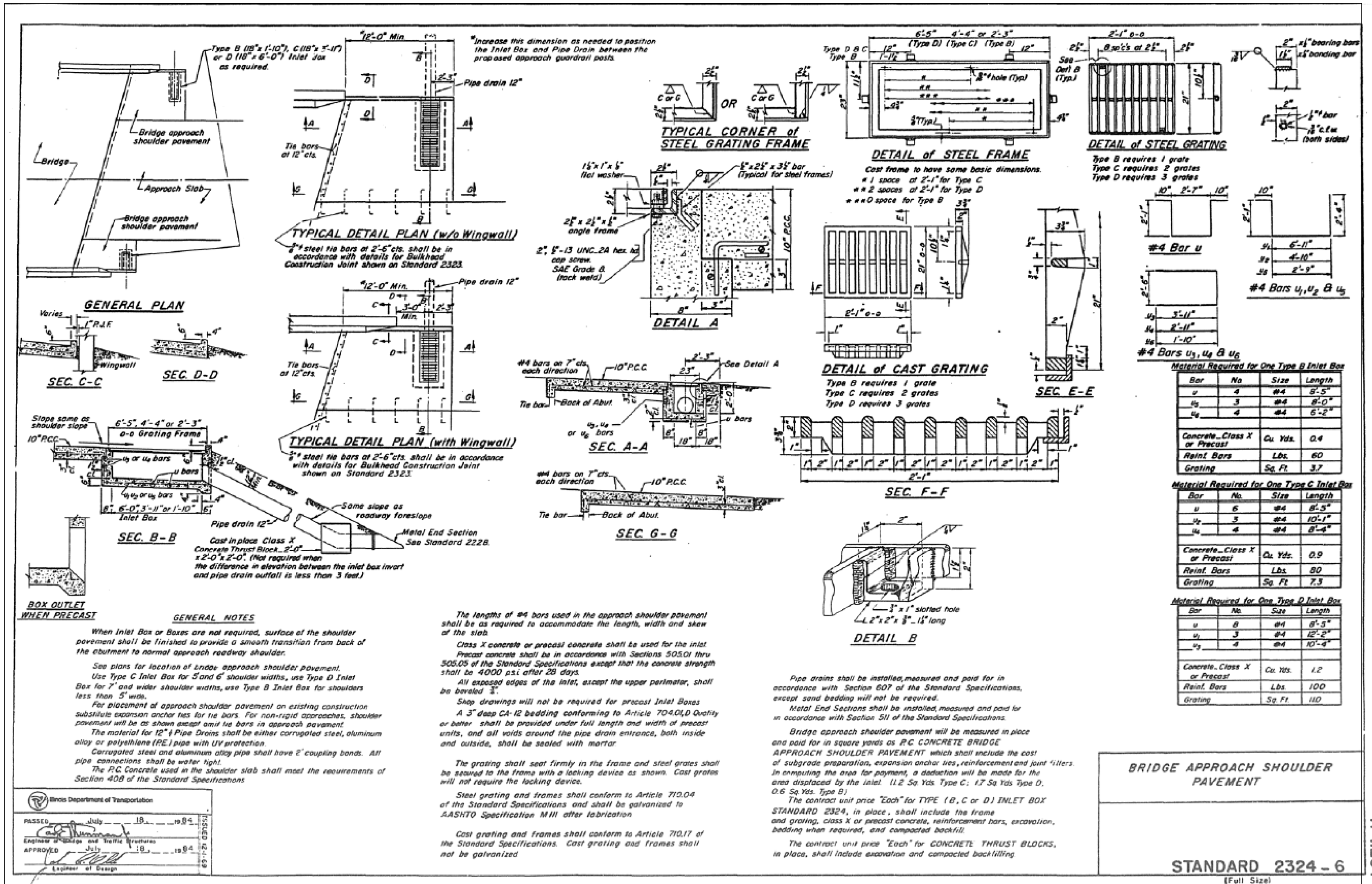
ITEM **UNIT** **QUANTITY**

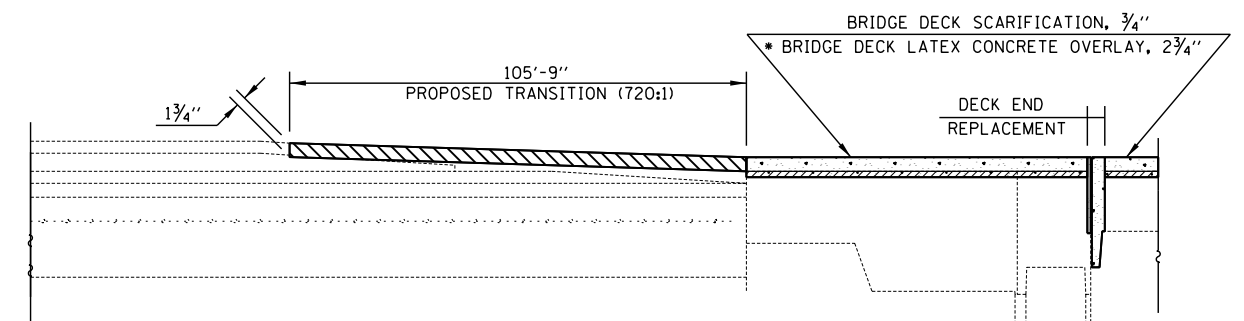
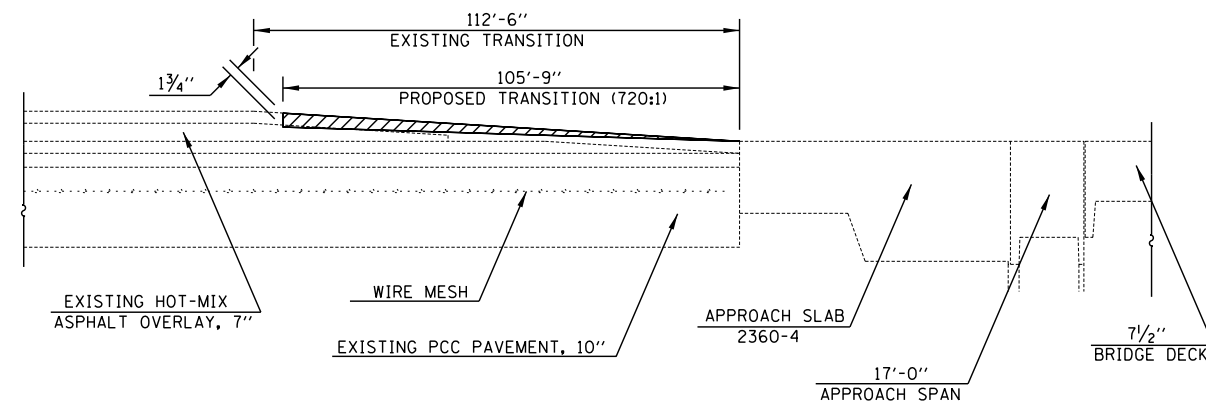
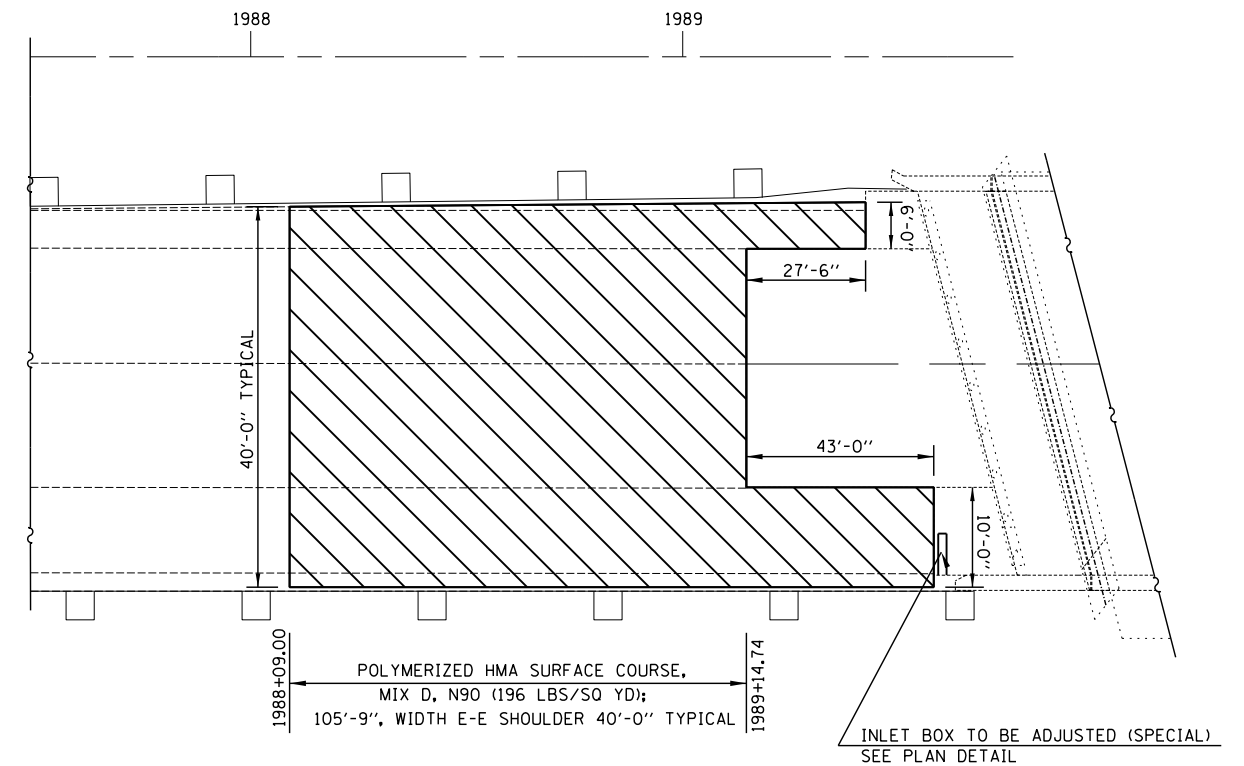
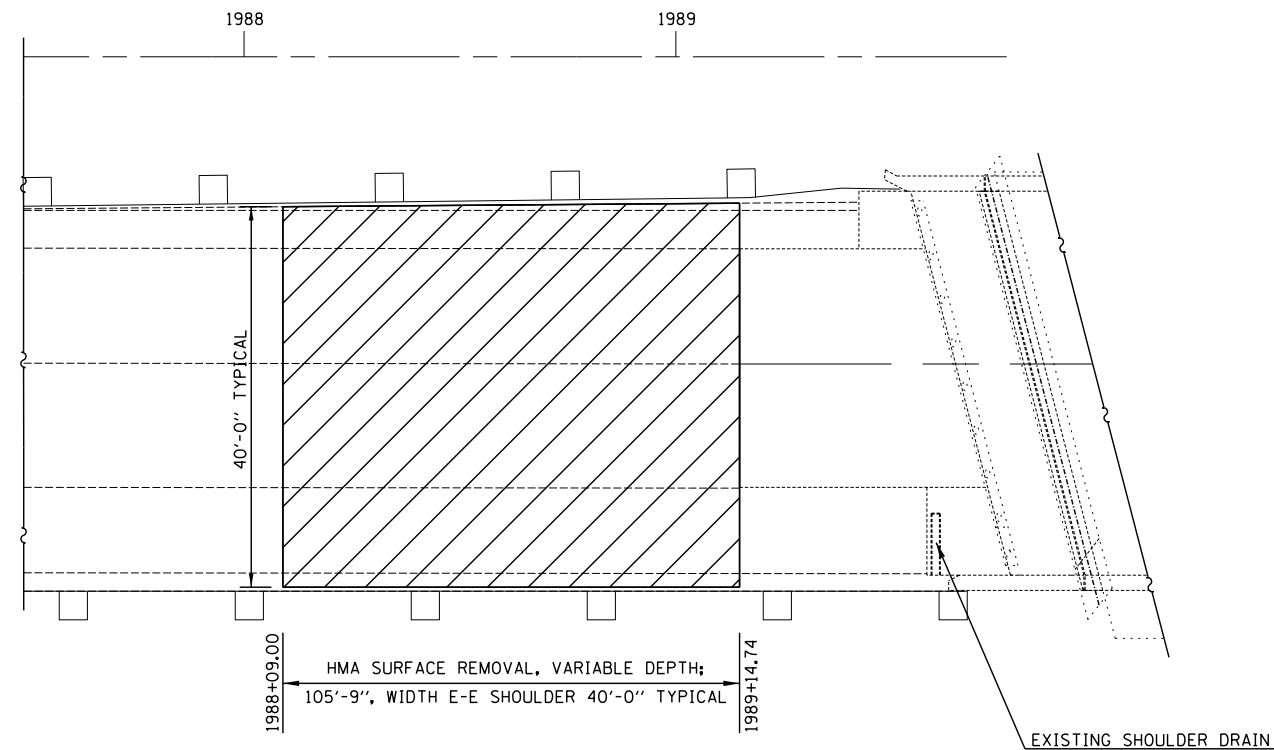
Concrete Removal	Cu Yds.	4.5
Expansion Bolts, 1/4"	Each	180
Cofferdam Excavation	Cu Yds.	29.2
Class X Concrete	Cu Yds.	192.3
Reinforcement Bars	Lbs.	1757
Epoxy Mortar Repair	Cu Ft.	1.5
Reinf. Bars (Epoxy Coated)	Lbs.	17,364
Cofferdam (Pier E)	Each	1
ROLL EXCAVATION	CY	29.3

* Quantity includes the total length of spiral (1025'-11") and 11" spacers.

PIER 2 (EB)
FAI 74 OVER VERMILION RIVER
FAI RTE. 74 SECTION (92-12B)BR
VERMILION COUNTY
STATION 1992+54.00
STRUCTURE NO. 092-0014(WB)
STRUCTURE NO. 092-0015(EB)

AS-BUILT PLANS
FOR INFORMATION ONLY





PAVER ELECTRONIC GRADE CONTROL SHALL BE OPERATED
FROM A PRESET GRADE CONTROL STRINGLINE, SEE ARTICLE 406.06(e)

* PRIOR TO 1/4" DIAMOND GRINDING

BILL OF MATERIALS

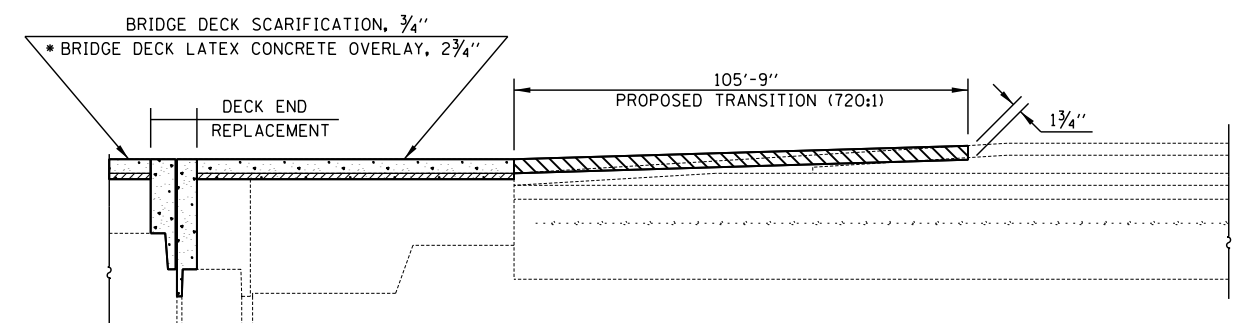
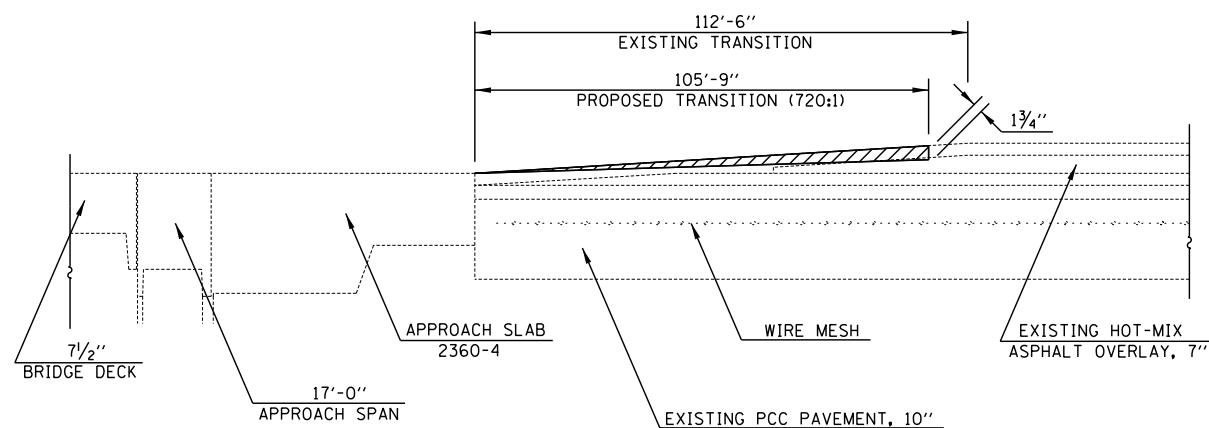
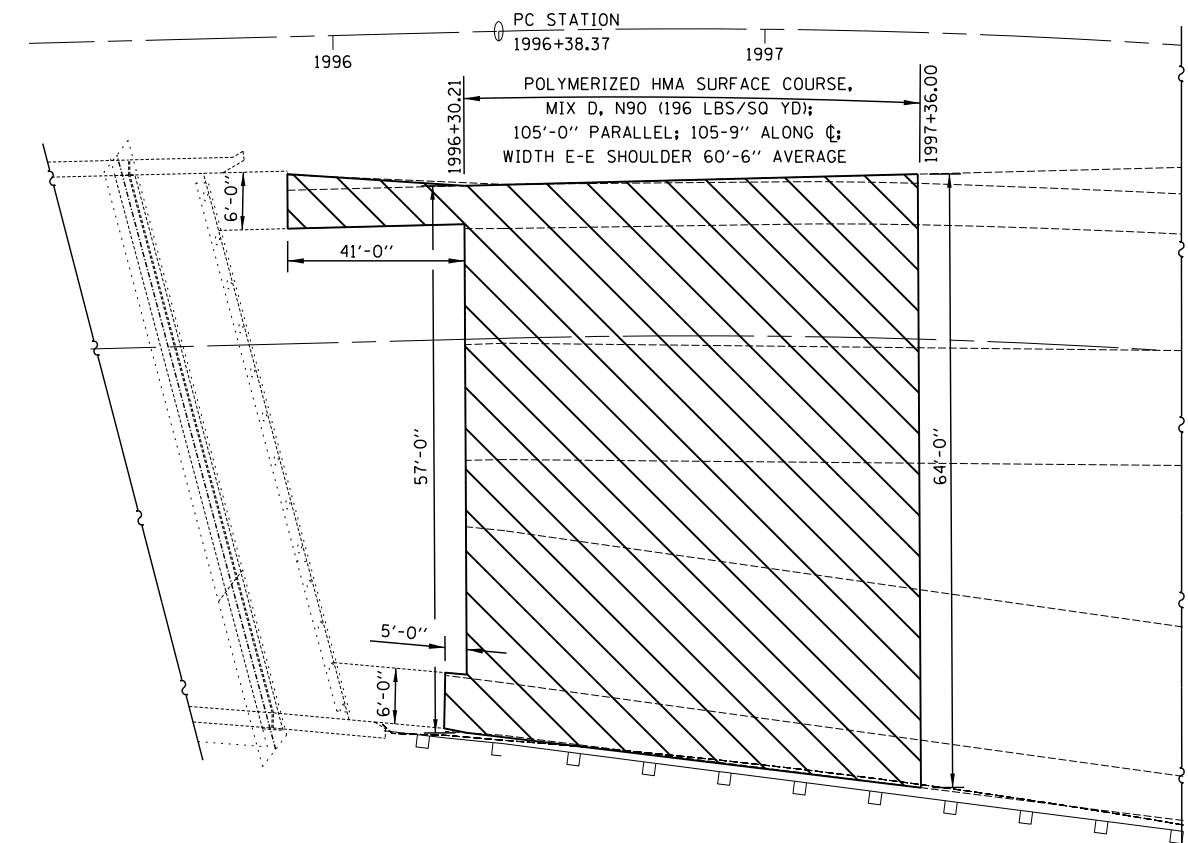
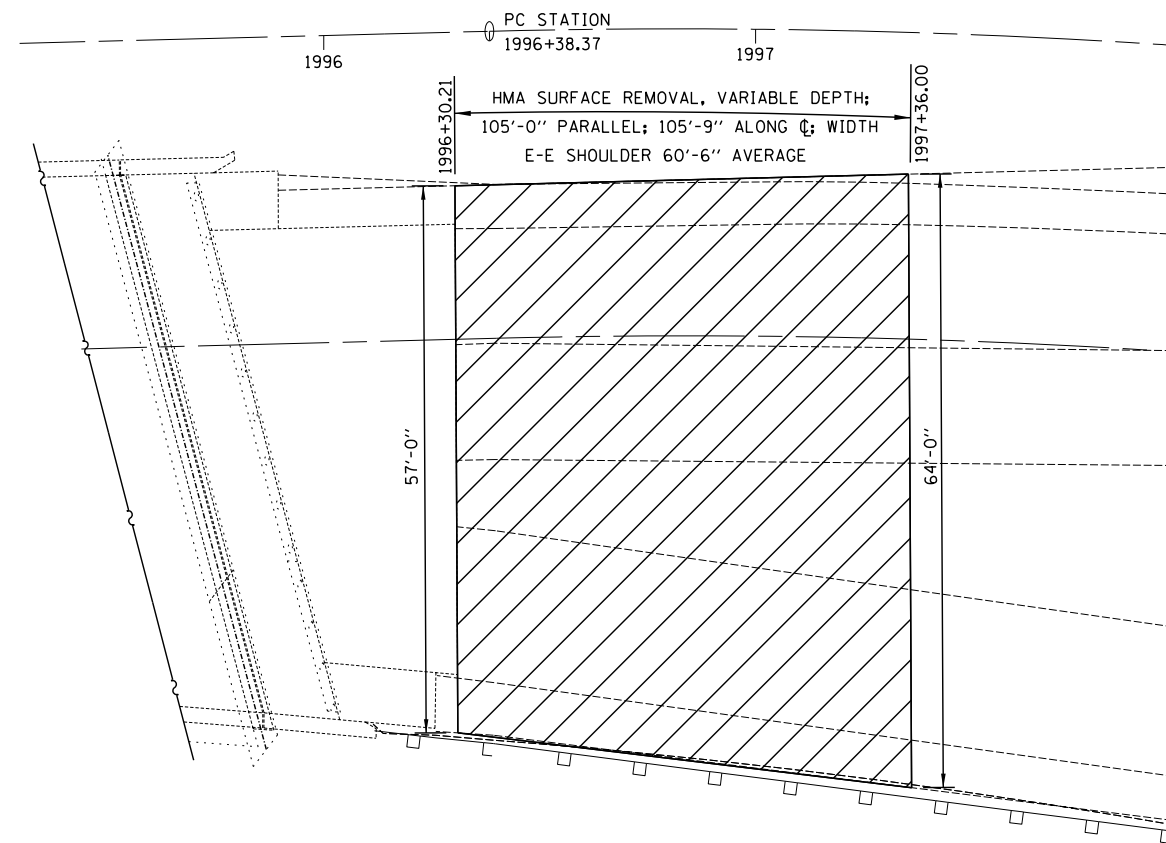
ITEM	UNIT	TOTAL
HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	470.0
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX D, N90	TON	53.0

 POLYMERIZED HOT-MIX ASPHALT SURFACE
COURSE, MIX D N90 (196 LBS/SQ YD)

EXISTING ELEVATION

PROPOSED ELEVATION

FILE NAME =	USER NAME = shawler	DESIGNED - ESS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	WEST APPROACH RUNDOWN TRANSITION DETAILS					F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw\N\084EBID\INTEG\Illinois.gov\PIDOT\Documents\DOT Offices\District 5\Projects\DS7087\Drawn Data\Structure\SS\0570871-sht-Report		CHECKED - TJB	REVISED -		SN. 092-0015 (EB)					74	(92-12B)	VERMILION	51	45
PLOT SCALE = 100.0000 ' / in.		DATE - 12/21/2015	REVISED -							CONTRACT NO. 70871				
PLOT DATE = 9/30/2016					SCALE:	SHEET 1	OF 2	SHEETS	STA.	TO STA.				



PAVER ELECTRONIC GRADE CONTROL SHALL BE OPERATED
FROM A PRESET GRADE CONTROL STRINGLINE, SEE ARTICLE 406.06(e)

* PRIOR TO 1/4" DIAMOND GRINDING

BILL OF MATERIALS

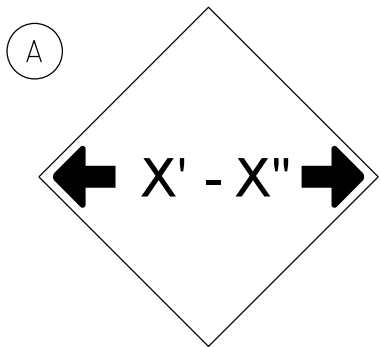
ITEM	UNIT	TOTAL
HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	706.0
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX D, N90	TON	72.0

 POLYMERIZED HOT-MIX ASPHALT SURFACE
COURSE, MIX D N90 (196 LBS/SQ YD)

PROPOSED ELEVATION

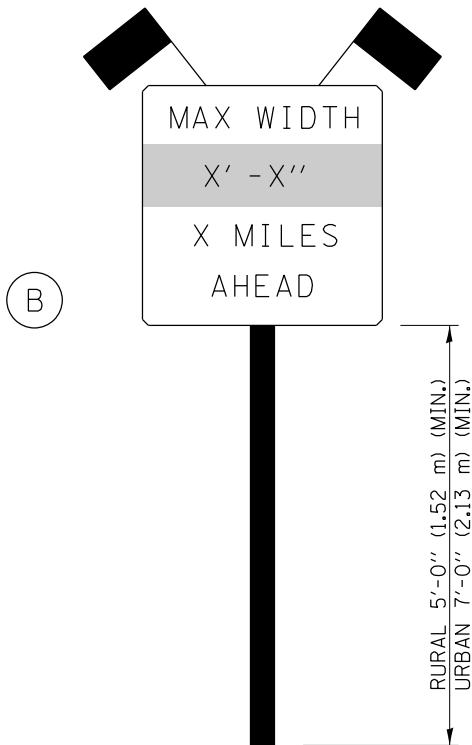
FILE NAME =	USER NAME = shawler	DESIGNED - ESS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EAST APPROACH RUNDOWN TRANSITION DETAILS					F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw\N\084EBID\INTEG\Illinois.gov\PIDOT\Documents\DOT Offices\District 5\Projects\DS7087\Drawn Data\Structure\SS\0570871-shr-Report		CHECKED - TJB	REVISED -		SN. 092-0015 (EB)					74	(92-12B)	VERMILION	51	46
	PLOT SCALE = 100.0000 ' / in.	DATE - 12/23/2015	REVISED -							CONTRACT NO. 70871				
\$MODELNAME\$	PLOT DATE = 9/30/2016				SCALE:	SHEET 2	OF 2 SHEETS	STA.	TO STA.					

STAGE ONE (ONLY)

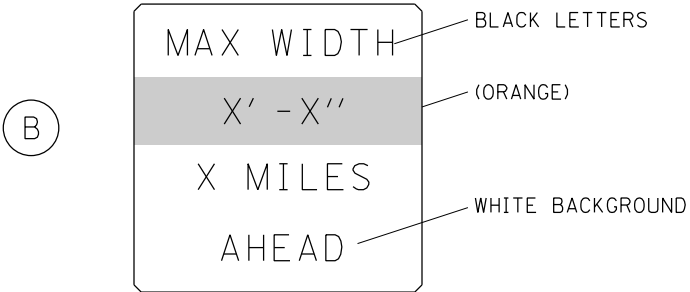


W12-2(0)-48"x48"(1200x1200)

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.

STAGE WIDTHS:

STAGE 1 WIDTH = 12'-5 1/4" ACTUAL; 11'-0" POSTED; REQUIRED
STAGE 2 NOT RQUIRED; WIDTH = 17'-11 1/2" ACTUAL

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 (0) 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 BOOK.

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 5 DETAIL NO. X7200201												
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION				WIDTH RESTRICTION SIGNING S.N. 092-0015 (EB)				F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
								74	(92-12B)I	VERMILION	51	47
								CONTRACT NO. 70B71				
FILE NAME =	USER NAME = shawleres	DESIGNED -	REVISED - -				SCALE:	SHEET NO. 1	OF 4	SHEETS	STA.	TO STA.
pwr\1084EBID\INTEG.Illinois.gov\PWIDOT Documents\DOT Offices\District 5\Projects\057	DRAWN	REVISED										
PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED - -										
PLOT DATE = 9/15/2016	DATE -	REVISED - -										

STAGE ONE (ONLY)

WIDTH RESTRICTION SIGNING FOR I-74
EASTBOUND TRAFFIC

INTERSECTION OF US-150 & I-74 WEST OF DANVILLE

B1

I-74 WEST OF RAILROAD STRUCTURE
ERECT BY ½ MILE GREEN BOARD
6 MILES AHEAD
DUAL DISPLAY

A1

AT US-150 ENTRANCE RAMP TO I-74 EAST BOUND
ERECT ACROSS FROM USE PROHIBITED BY SIGN
INCLUDE 6.0 MILE AHEAD SIGN

6.0 MILES



FILE NAME = p:\11\084EBID\INTEG\Illinois.gov\PI\DOT\Documents\DOT Offices\District 5\Projects\057084EBID\Structure\SS\0570871-shr-Repair\SS\0570871-shr-Repair.dwg	USER NAME = shawleres	DESIGNED - ESS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	WIDTH RESTRICTION SIGNING S.N. 092-0015 (EB)		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - ESS	REVISED -				74	(92-12B)I	VERMILION	51	48
		PLOT SCALE = 40.0000' / in.	CHECKED -				CONTRACT NO. 70B71		ILLINOIS FED. AID PROJECT		
		PLOT DATE = 9/8/2016	DATE - 3-30-2016				SCALE:	SHEET 2 OF 4 SHEETS	STA.	TO STA.	

STAGE ONE (ONLY)

WIDTH RESTRICTION SIGNING FOR I-74
EASTBOUND TRAFFIC

INTERSECTION OF TILTON & I-74 SOUTHWEST OF DANVILLE

A2

AT SECOND STREET ENTRANCE RAMP TO I-74 EAST BOUND
ERECT ACROSS FROM START OF GUARDRAIL
INCLUDE 2.0 MILE AHEAD SIGN

2.0 MILES



FILE NAME =	USER NAME = shawler	DESIGNED - ESS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	WIDTH RESTRICTION SIGNING S.N. 092-0015 (EB)					F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\IL084EBIDINTEGallinois.gov\PIDOT\Documents\DOT Offices\District 5\Projects\0570B71\Drawings\SS\0570B71-shr-Report		CHECKED -	REVISED -		74	(92-12B)I	VERMILION	51	49					
\$MODELNAME\$	PLOT SCALE = 40.0000' / in.	DATE = 3-30-2016	REVISED -		CONTRACT NO. 70B71									
	PLOT DATE = 9/8/2016				SCALE:	SHEET 3	OF 4 SHEETS	STA.	TO STA.					

STAGE ONE (ONLY)

WIDTH RESTRICTION SIGNING FOR I-74
EASTBOUND TRAFFIC

INTERSECTION OF IL-1 & I-74 SOUTH OF DANVILLE



B2

I-74 WEST OF TILTON RD OVERHEAD
ERECT JUST PAST FOUR 70 MPH SPEED LIMIT SIGNS
1.0 MILE AHEAD
DUAL DISPLAY

A3

AT IL-1 SOUTHBOUND ENTRANCE RAMP TO I-74 EAST
ERECT BY LIGHT POLE 65-123 JUST PRIOR
TO ENTRANCE TO RAMP
INCLUDE DIRECTION ARROW SIGN



21" X 15" (0)

A4

AT IL-1 NORTHBOUND ENTRANCE RAMP TO I-74 EAST
ERECT JUST PRIOR TO RAMP 30 MPH SIGN
INCLUDE DIRECTION ARROW SIGN _____



21" X 15" (0)



FILE NAME =	USER NAME = shawleres	DESIGNED - ESS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	WIDTH RESTRICTION SIGNING				F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw\N\084EBID\INTEG\Illinois.gov\PIDOT\Documents\PIDOT Offices\District 5\Projects\0578\REDRAW\Drawn\Structure\ESS\0578B71-sht-Report		DRAWN - ESS	REVISED -		S.N. 092-0015 (EB)				74	(92-12B)1	VERMILION	51	50
	PLOT DATE = 10.0000 ' / in.	CHECKED -	REVISED -						CONTRACT NO. 70B71				
\$MODELNAME\$	PLOT DATE = 9/8/2016	DATE - 3-30-2016	REVISED -		SCALE: SHEET 4 OF 4 SHEETS STA. TO STA.				ILLINOIS FED. AID PROJECT				

The diagram illustrates the plan view of a two-lane highway cross-section. Key features include:

- Median:** A dashed line at the top labeled "MEDIAN".
- Edge of Pavement (Top):** A solid line labeled "EDGE OF PAV'T.".
- Edge of Pavement (Bottom):** A solid line labeled "EDGE OF PAV'T.".
- Median Width:** Indicated by a vertical dimension line labeled "VAR. WIDTH MEDIAN".
- Shoulder Width:** A dimension of "50 (2'") is shown between the top edge of pavement and the median.
- Lane Widths:** Two lanes are shown, each with a width of "10' (3.05 m) (TYP.)".
- Travel Lane Width:** The distance between the inner edges of the two travel lanes is "30' (9.15 m) (TYPICAL)".
- Pavement Centerline:** A dashed line labeled "PAVEMENT" runs through the center of the travel lanes.
- Traffic Direction:** Arrows on the right side indicate the "DIRECTION OF TRAFFIC" for both lanes.
- Callouts:** Numbered boxes 2, 7, and 8 point to specific features: box 2 points to the top edge of pavement, box 7 points to the pavement centerline, and box 8 points to the bottom edge of pavement.
- AS SHOWN IN THE PLANS:** This text appears on both the left and right sides of the diagram, indicating that the dimensions and layout are as shown in the plans.

FOR RAISED REFLECTIVE PAVEMENT MARKERS, REFER
TO STANDARD 781001.

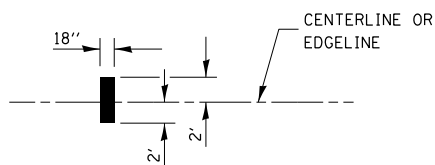


Diagram illustrating the layout of a large merge arrow. The layout is defined by a 12' vertical lane and a 16' - 11" horizontal distance. The layout includes a 18' baseline, a 14' segment, and a 20° angle. The layout is divided into sections with dimensions 2'-9", 1'-10", 1'-8", 2'-9", and 5'-9". The total area is 42 SQ. FT.

TE)
24'' TYP. (610) 4' TYP. (1.22 m) 24'' TYP. (610)

30' (9.0 m)
(TYPICAL)

3 LANES

2 LANES

2" (50)

EOP

300' (90 m)

45°

45°

SEE PLANS FOR
END OF TAPER
STATIONING

Callouts: 2, 7, 8, 9, 12

[illegible]

The diagram illustrates a transition from a 2-lane road to a 3-lane road. On the left, a 2-lane road with a 16' (4.9 m) gore is shown. The transition area is marked with a 300' (90 m) distance. The right side shows a 3-lane road with an EOP (End of Project) point. Various lane markings and dimensions are indicated by numbered callouts (2, 7, 8, 12) and a 2'' (50) dimension.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(92-12B)I	VERMILION	51	51
		CONTRACT NO. 70B71		

SCALE:	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.
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