

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2 TO 2	GENERAL NOTES, UTILITY COORDINATION & COMMITMENTS
3 TO 3	SUMMARY OF QUANTITIES
4 TO 4	TYPICAL SECTIONS
5 TO 5	SCHEDULES OF QUANTITIES
6 TO 6	LINE DIAGRAM
7 TO 7	DETOUR PLANS
8 TO 8	TRAFFIC CONTROL PLANS
9 TO 27	STRUCTURES

LIST OF STANDARDS

000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
701101-05	OFF-RD OPERATIONS MULTILANE, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701106-02	OFF-RD OPERATIONS, MULTILANE, MORE THAN 15' (4.5 m) AWAY
701400-11	APPROACH TO LANE CLOSURE, FREEWAY / EXPRESSWAY
701406-13	LANE CLOSURE, FREEWAY / EXPRESSWAY, DAY OPERATIONS ONLY
701428-01	TRAFFIC CONTROL SETUP AND REMOVAL FREEWAY / EXPRESSWAY
701901-08	TRAFFIC CONTROL DEVICES
720011-01	METAL POSTS FOR SIGNS, MARKERS AND DELINEATORS
B.L.R. 21-9	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS

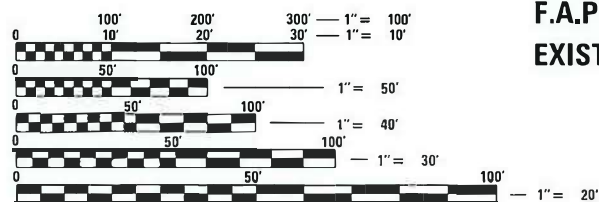
MOSSVILLE ROAD – YEAR 2020

AADT: 3150
 SU: 80
 MU: 16

IL 6 – YEAR 2021

AADT: 9850
 SU: 325
 MU: 475

PROJECT LOCATION
MOSSVILLE ROAD OVER
F.A.P. ROUTE 318 (IL 6)
EXIST. SN 072-0148



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 EXCAVATORS
 1-800-892-0123
 OR 811

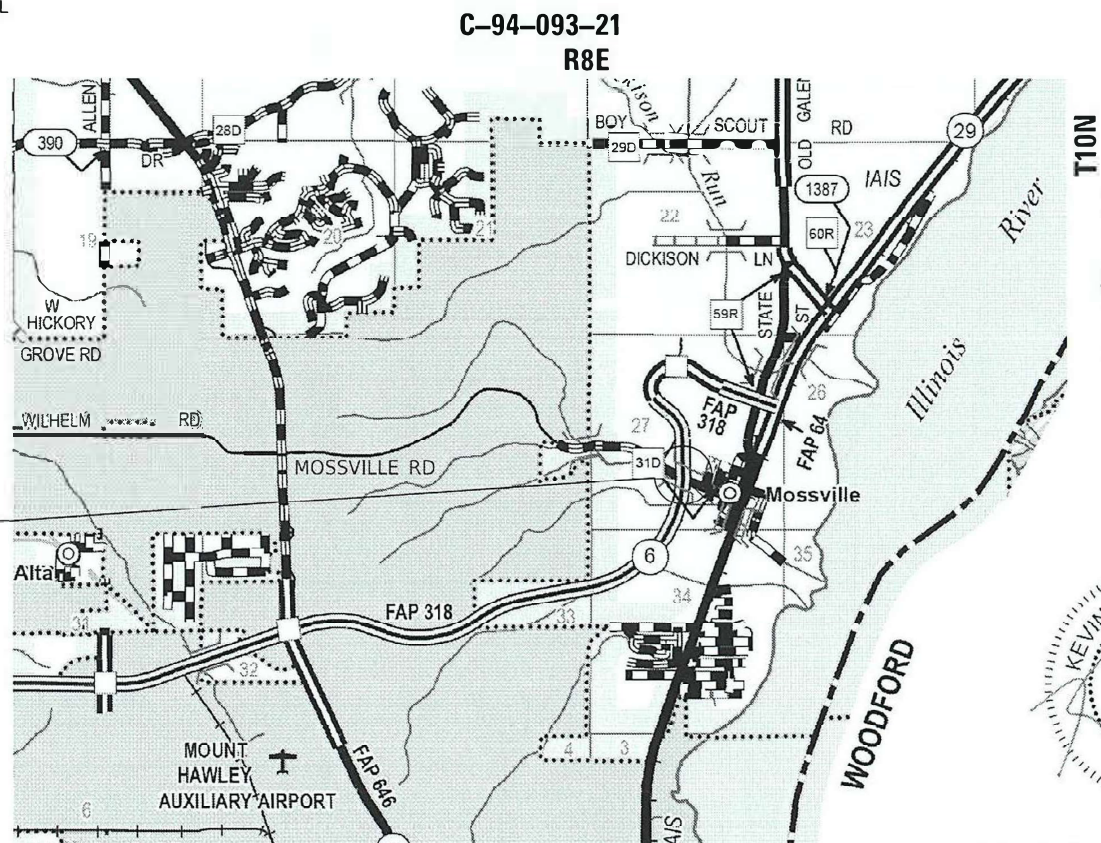
PROJECT ENGINEER: RICH DOTSON, PE (309) 671-3455
PROJECT MANAGER: ALEX JETTE (309) 671-3471

CONTRACT NO. 68G69 CATALOG NO. 036256-00D

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED
HIGHWAY PLANS

MOSSVILLE ROAD OVER F.A.P. ROUTE 318 (IL 6)
SECTION (72-6HB-2)BRR
PROJECT
BRIDGE REPAIR
PEORIA COUNTY



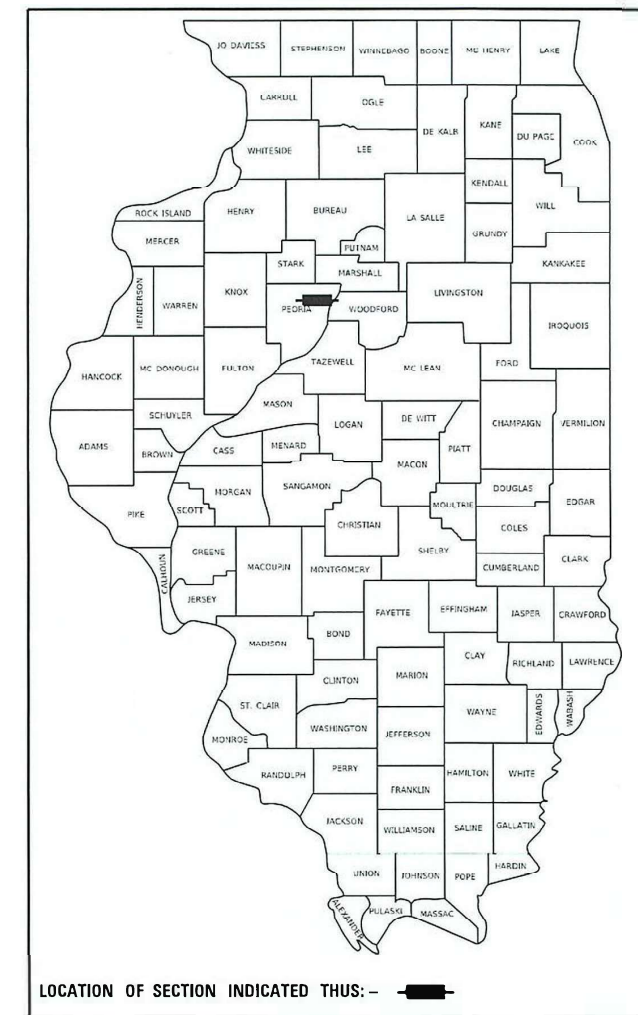
Expiration: 11/30/2023



GROSS LENGTH = 284.21 FT. = 0.054 MILE
 NET LENGTH = 284.21 FT. = 0.054 MILE

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	(72-6HB-2)BRR	PEORIA	27	1
	ILLINOIS	CONTRACT NO. 68G69		

D-94-071-21



PROJECT DESCRIPTION:
 THIS PROJECT INCLUDES REPAIRS TO SN 072-0148 SUCH AS BEAM PLATING, EXPANSION JOINT REPLACEMENT AND OTHER RELATED WORK.

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUBMITTED April 1 20 22
Paul A. Jones REGIONAL ENGINEER

May 13, 2022 [Signature]
 ENGINEER OF DESIGN AND ENVIRONMENT

May 13, 2022 [Signature]
 DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

GENERAL NOTES

105.06 AVAILABILITY OF ELECTRONIC FILES

MICROSTATION AND GEOPAK FILES OF THIS PROJECT WILL BE MADE AVAILABLE TO THE CONTRACTOR AFTER CONTRACT AWARD. IF THERE IS A CONFLICT BETWEEN THE ELECTRONIC FILES AND THE PRINTED CONTRACT PLANS AND DOCUMENTS, THE PRINTED CONTRACT PLANS AND DOCUMENTS SHALL TAKE PRECEDENCE OVER THE ELECTRONIC FILES. THE CONTRACTOR SHALL ACCEPT ALL RISK ASSOCIATED WITH USING THE ELECTRONIC FILES AND SHALL HOLD THE DEPARTMENT HARMLESS FOR ANY ERRORS OR OMISSIONS IN THE ELECTRONIC FILES AND THE DATA CONTAINED THEREIN. ERRORS OR DELAYS RESULTING FROM THE USE OF THE ELECTRONIC FILES BY THE CONTRACTOR SHALL NOT RESULT IN AN EXTENSION OF TIME FOR ANY INTERIM OR FINAL COMPLETION DATE OR SHALL NOT BE CONSIDERED CAUSE FOR ADDITIONAL COMPENSATION. THE CONTRACTOR SHALL NOT USE, SHARE, OR DISTRIBUTE THESE ELECTRONIC FILES EXCEPT FOR THE PURPOSE OF CONSTRUCTING THIS CONTRACT. ANY CLAIMS BY THIRD PARTIES DUE TO USE OR ERRORS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL INCLUDE THIS DISCLAIMER WITH THE TRANSFER OF THESE ELECTRONIC FILES TO ANY OTHER PARTIES AND SHALL INCLUDE APPROPRIATE LANGUAGE BINDING THEM TO SIMILAR RESPONSIBILITIES.

204.00 ENVIRONMENTAL REVIEWS

PRIOR TO THE USE OF ANY PROPOSED BORROW AREAS, USE AREAS (TEMPORARY ACCESS ROADS, DETOURS, RUN-AROUNDS, ETC.) AND/OR WASTE AREAS, THE CONTRACTOR SHALL FILE THE REQUIRED ENVIRONMENTAL RESOURCE REQUEST SURVEYS ACCORDING TO SECTION 107.22 OF THE STANDARD SPECIFICATIONS. THESE SURVEYS ARE REQUIRED IN ORDER FOR THE DEPARTMENT TO CONDUCT CULTURAL AND BIOLOGICAL RESOURCE SURVEYS FOR THE PROPOSED SITE.

THE REQUIRED ENVIRONMENTAL RESOURCE DOCUMENTATION SHALL INCLUDE THE FOLLOWING:

- * BDE FORM 2289 (BORROW SITE REVIEW)
- * BDE FORM 2290 (WASTE/USE AREA REVIEW)
- * A LOCATION MAP SHOWING THE SIZE LIMITS AND LOCATION OF THE USE AREA
- * COLOR PHOTOGRAPHS DEPICTING THE USE AREA
- * BORROW AREA ENTRY AGREEMENT FORM - D4 PI0101

PRIOR TO ANY WASTE MATERIALS BEING REMOVED FROM THE CONSTRUCTION SITE THE REQUIRED ENVIRONMENTAL RESOURCE SURVEYS SHALL BE OBTAINED AND FILED BY THE CONTRACTOR. EXCESS WASTE PRODUCTS REMOVED FROM THE CONSTRUCTION SITE SHALL BE DISPOSED OF AS REQUIRED IN SECTION 202.03 OF THE STANDARD SPECIFICATIONS.

ANY PROTRUDING METAL BARS SHALL BE REMOVED PRIOR TO THE DISPOSAL OF BROKEN CONCRETE AT APPROVED DISPOSAL SITES.

PLEASE NOTE THAT A MINIMUM OF FOUR WEEKS SHALL BE ALLOWED FOR THE DISTRICT TO OBTAIN THE REQUIRED WASTE SITE ENVIRONMENTAL CLEARANCES AND SIX WEEKS FOR THE REQUIRED BORROW SITE ENVIRONMENTAL CLEARANCES.

701.01 ADDITIONAL SUPPLEMENTAL TRAFFIC CONTROL

THE DEPARTMENT RESERVES THE RIGHT AT ANY TIME TO ADD ADDITIONAL TRAFFIC CONTROL SYSTEMS OR DEVICES WITHIN THE ACTIVE CONTRACT LIMITS, BY MEANS OF AN ADDITIONAL CONTRACT. ALL TERMS OF ARTICLE 105.08 OF THE STANDARD SPECIFICATIONS SHALL BE FOLLOWED BY EACH CONTRACTOR.

720.00 SIGNING

SIGN LOCATIONS MAY VARY FROM THE STATIONS SHOWN ON THE PLANS IN ACCORDANCE WITH DIRECTIONS FROM THE ENGINEER AT THE TIME OF CONSTRUCTION. SIGN LOCATIONS MAY BE ADJUSTED IN THE FIELD TO AVOID ANY FOUND UTILITIES.

ALL WOOD POST LOCATIONS SHALL BE VERIFIED WITH THE BUREAU OF OPERATIONS, TRAFFIC SECTION, BEFORE INSTALLATION.

UTILITY COORDINATION

NO UTILITIES INTERFERE WITH THIS PROJECT.

COMMITMENTS

COMMITMENTS ARE NOT TO BE ALTERED WITHOUT THE WRITTEN APPROVAL OF ALL PARTIES TO WHICH THE COMMITMENT WAS MADE. THERE ARE NO COMMITMENTS FOR THIS PROJECT.

MODEL Default
FILE NAME: ...D:\68G69-2\tr-geomote.dgn

USER NAME = dhawes	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 4/1/2022 - 9:42:18 AM	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

GENERAL NOTES, UTILITY COORDINATION & COMMITMENTS

SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	(72-6HB-2)BRR	PEORIA	27	2
CONTRACT NO. 68G69				
ILLINOIS FED. AID PROJECT				

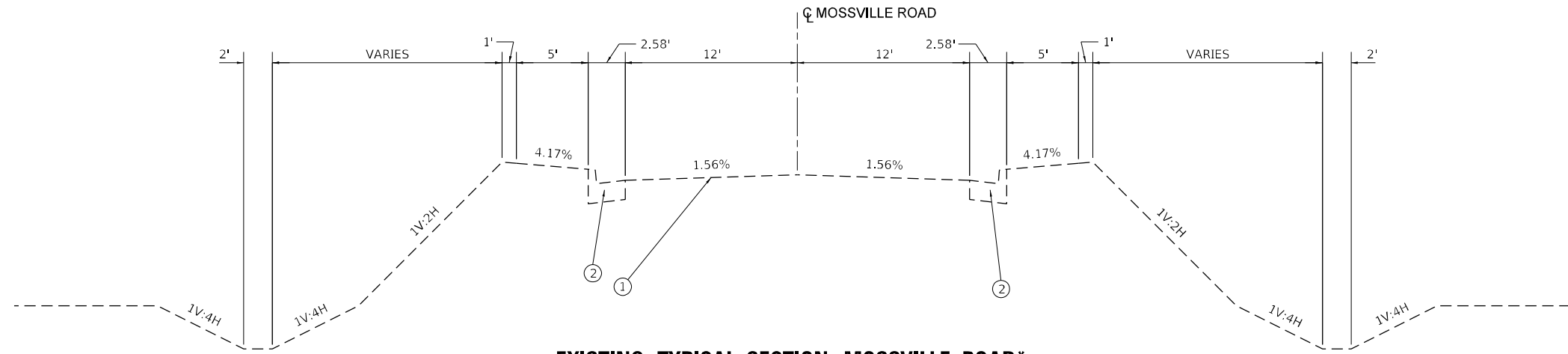
CONSTR. CODE
URBAN
100% STATE
BRIDGE
0013
072-0148

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	
50102400	CONCRETE REMOVAL	CU YD	12.4	12.4
50300255	CONCRETE SUPERSTRUCTURE	CU YD	11.2	11.2
50300300	PROTECTIVE COAT	SQ YD	33	33
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	1200	1200
52000110	PREFORMED JOINT STRIP SEAL	FOOT	86	86
67100100	MOBILIZATION	L SUM	1	1
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	150	150
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1
Z0001905	STRUCTURAL STEEL REPAIR	POUND	2370	2370
Z0007101	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 1	L SUM	1	1
Z0016702	DETOUR SIGNING	L SUM	1	1

* SPECIALTY ITEMS

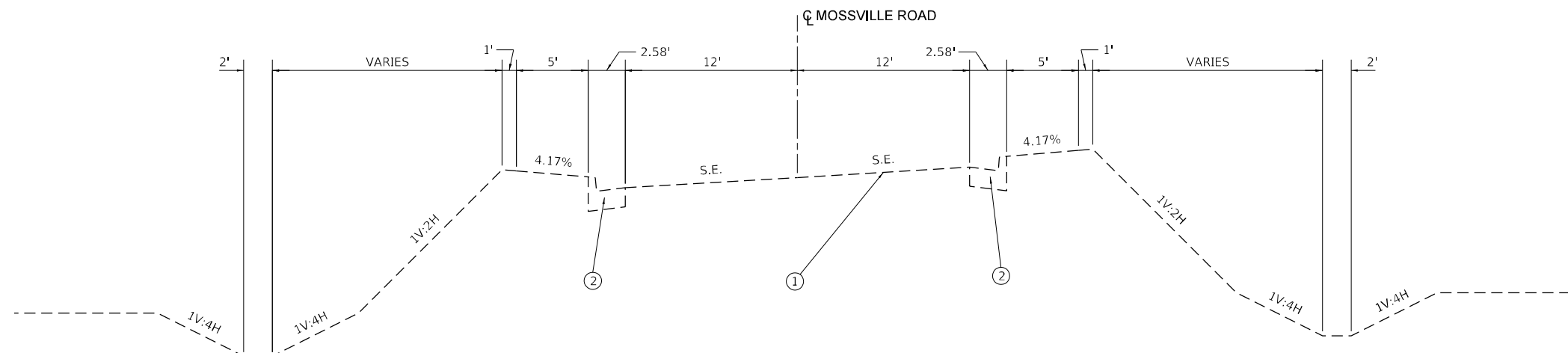
MODEL: Default
FILE NAME: ...CAD_Sheet1.dwg
SHEET: 1 of 3

USER NAME = dhawes	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 100.0000' / in.	DRAWN -	REVISED -					318	(72-6HB-2)BRR	PEORIA	27	3
PLOT DATE = 3/31/2022 3:02:05 PM	CHECKED -	REVISED -		SCALE: N.T.S.	SHEET 1 OF 1 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		CONTRACT NO. 68G69	
	DATE -	REVISED -									



EXISTING TYPICAL SECTION MOSSVILLE ROAD*

STATION 122+08.41 TO 125+29.56



EXISTING TYPICAL SECTION MOSSVILLE ROAD*

STA. 118+70.00 TO 120+58.41 (FULL S.E.)
 STA. 120+58.41 TO 122+08.41 (S.E. TRANSITION)
 STA. 128+24.18 TO 133+72.99 (FULL S.E.)
 STA. 138+72.99 TO 135+22.99 (S.E. TRANSITION)

*STATIONING PER EXISTING PLANS

- ① STANDARD REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT 8", STD. 2179 (1982)
OR BRIDGE APPROACH PAVEMENT STD. 2382 (1982)
- ② CONCRETE CURB AND GUTTER TYPE B-6.24

MODEL: Default
FILE NAME: ...068669-ehc-typical.dgn

USER NAME = dhawes	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 10,0000 * / in.	CHECKED -	REVISED -
PLOT DATE = 3/31/2022 - 3:41:45 PM	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

MOSSVILLE ROAD EXISTING TYPICAL SECTION			
SCALE: N.T.S.	SHEET 1	OF 1 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	(72-6HB-2)BRR	PEORIA	27	4
CONTRACT NO. 68G69			ILLINOIS FED. AID PROJECT	

DETOUR SIGNING

(FOR INFORMATION ONLY)

SIGN ID	DESCRIPTION	SIGN NUMBER	SIGN SIZE			TOTAL NUMBER OF SIGNS	TEMPORARY SIGN PANEL ASSEMBLY SQ FT
			LENGTH (INCH)	HEIGHT (INCH)	AREA SQ FT		
W20-2	DETOUR AHEAD	"A"	36	36	9.00	3	27.00
SPECIAL	MOSSVILLE ROAD		48	24	8.00	15	120.00
SPECIAL	MOSSVILLE ROAD CLOSED OVER IL 6	"B"	48	48	16.00	6	96.00
M4-9R	DETOUR (RIGHT)	"C"	30	24	5.00	3	15.00
M4-9L	DETOUR (LEFT)	"D"	30	24	5.00	2	10.00
SPECIAL	DETOUR (AHEAD ARROW)	"E"	30	30	6.25	1	6.25
SPECIAL	DETOUR (RIGHT TURN)	"F"	30	30	6.25	1	6.25
SPECIAL	DETOUR (RIGHT AHEAD)	"G"	30	30	6.25	1	6.25
SPECIAL	DETOUR (RIGHT ARROW)	"H"	30	30	6.25	2	12.50
M4-8A	END DETOUR	"I"	24	18	3.00	2	6.00
							305.25

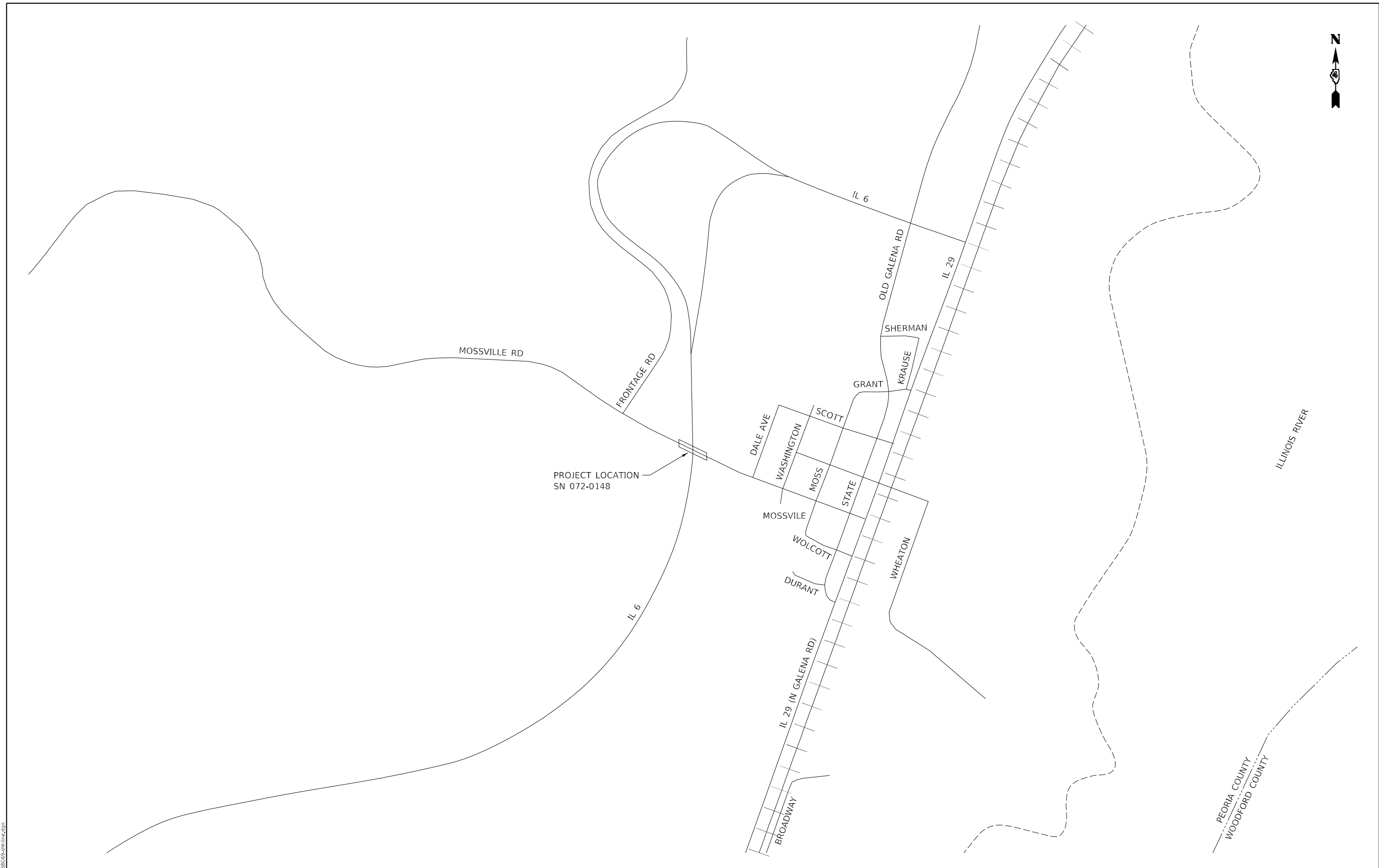
MODEL: Default
 FILE NAME: ...68G69-2b-ctchchedule.com

USER NAME = dhawes	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 3/30/2022 - 3:20:07 PM	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULES			
SCALE: N.T.S.	SHEET 1	OF 1 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	(72-6HB-2)BRR	PEORIA	27	5
CONTRACT NO. 68G69				
ILLINOIS FED. AID PROJECT				



PROJECT LOCATION
SN 072-0148

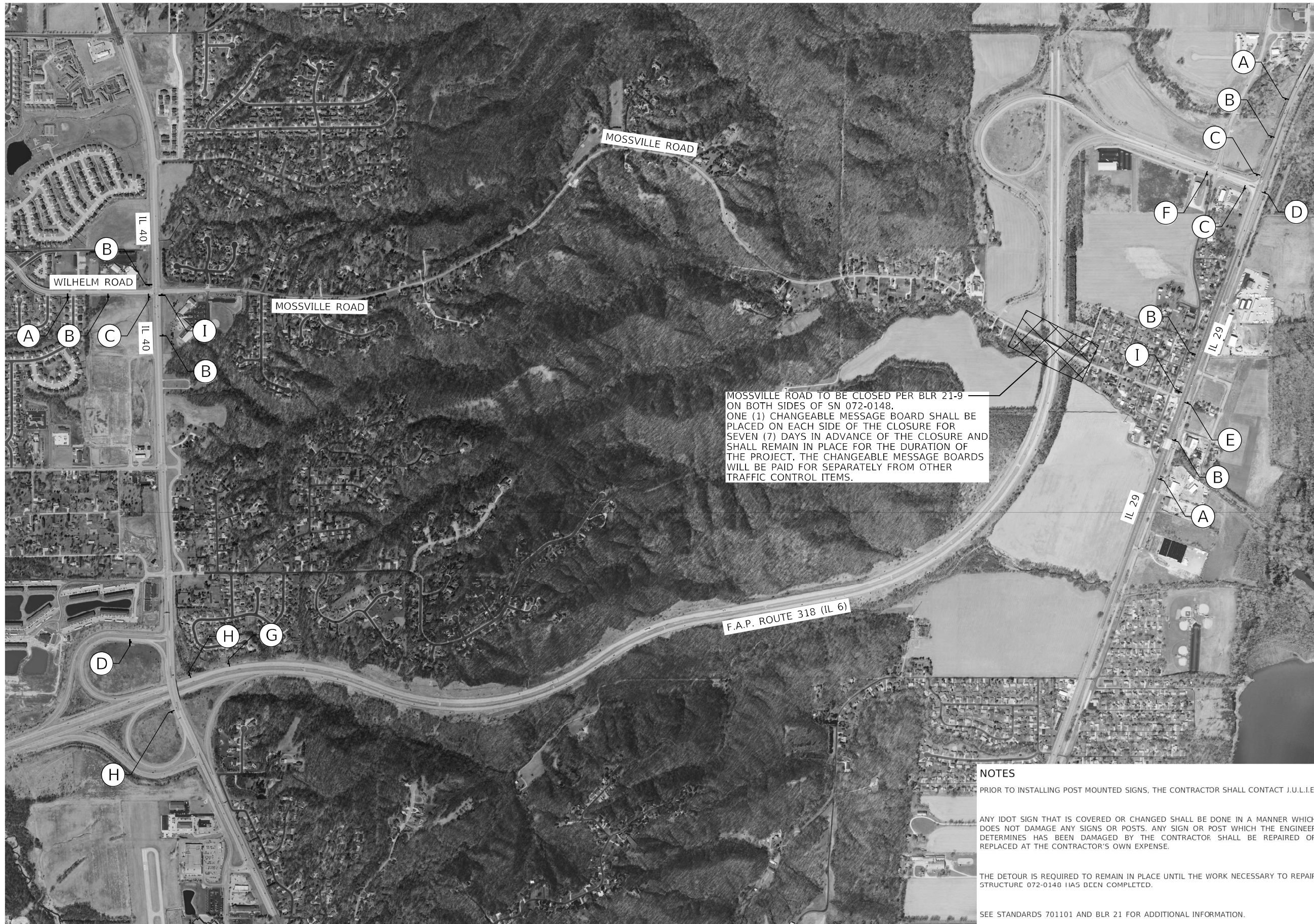
MODEL: Default
 FILE NAME: ...D:\68G69-2\line.dgn

USER NAME = dhawes	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 800,0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 3/31/2022 - 3:29:25 PM	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

LINE DIAGRAM			
MOSSVILLE ROAD OVER F.A.P. ROUTE 318 (IL 6)			
SCALE: N.T.S.	SHEET 1	OF 1 SHEETS	STA. TO STA.

F.A.P. RTE. 318	SECTION (72-6HB-2)BRR	COUNTY PEORIA	TOTAL SHEETS 27	SHEET NO. 6
CONTRACT NO. 68G69			ILLINOIS FED. AID PROJECT	



LEGEND

- (A)
- (B)
- (C)
- (D)
- (E)
- (F)
- (G)
- (H)
- (I)

NOTES

PRIOR TO INSTALLING POST MOUNTED SIGNS, THE CONTRACTOR SHALL CONTACT J.U.L.I.E.

ANY IDOT SIGN THAT IS COVERED OR CHANGED SHALL BE DONE IN A MANNER WHICH DOES NOT DAMAGE ANY SIGNS OR POSTS. ANY SIGN OR POST WHICH THE ENGINEER DETERMINES HAS BEEN DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S OWN EXPENSE.

THE DETOUR IS REQUIRED TO REMAIN IN PLACE UNTIL THE WORK NECESSARY TO REPAIR STRUCTURE 072-0148 HAS BEEN COMPLETED.

SEE STANDARDS 701101 AND BLR 21 FOR ADDITIONAL INFORMATION.

MODEL: Default
 FILE NAME: ...D:\686G69-CH-DETOUR.dgn

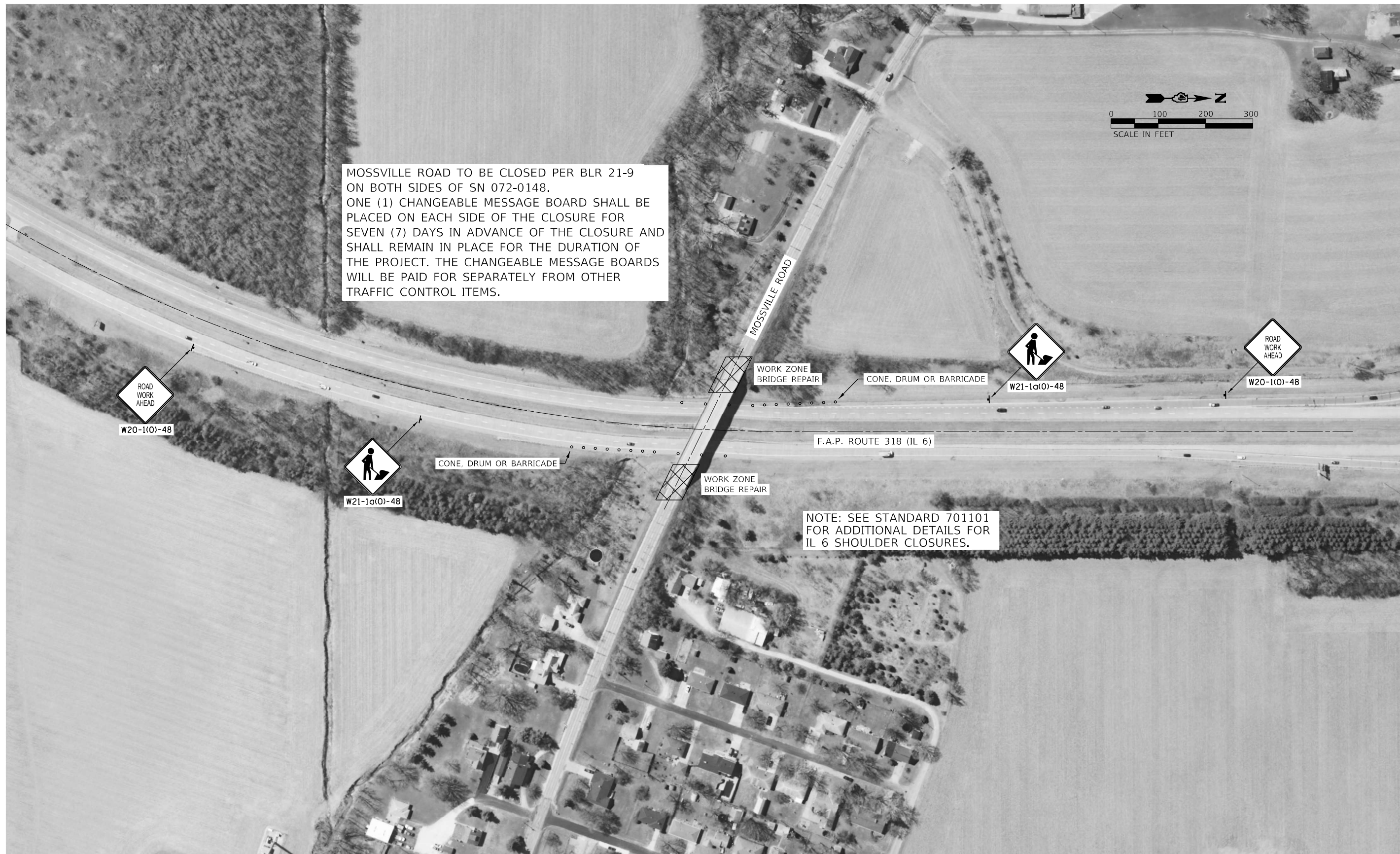
USER NAME = dhawes	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 1200,0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 3/31/2022 - 3:34:24 PM	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ROAD CLOSURE AND DETOUR
 MOSSVILLE ROAD OVER F.A.P. ROUTE 318 (IL 6)**

SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	(72-6HB-2)BRR	PEORIA	27	7
CONTRACT NO. 68G69				
ILLINOIS FED. AID PROJECT				



MOSSVILLE ROAD TO BE CLOSED PER BLR 21-9 ON BOTH SIDES OF SN 072-0148. ONE (1) CHANGEABLE MESSAGE BOARD SHALL BE PLACED ON EACH SIDE OF THE CLOSURE FOR SEVEN (7) DAYS IN ADVANCE OF THE CLOSURE AND SHALL REMAIN IN PLACE FOR THE DURATION OF THE PROJECT. THE CHANGEABLE MESSAGE BOARDS WILL BE PAID FOR SEPARATELY FROM OTHER TRAFFIC CONTROL ITEMS.

NOTE: SEE STANDARD 701101 FOR ADDITIONAL DETAILS FOR IL 6 SHOULDER CLOSURES.

MODEL: Default
FILE NAME: ...068669-chn-ctc-0148.dgn

USER NAME = dhawes	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 200,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 3/31/2022 - 3:35:01 PM	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SHOULDER CLOSURE F.A.P. ROUTE 318 (IL 6)			
TRAFFIC CONTROL PLAN SN 072-0148			
SCALE: 1"=100'	SHEET 1	OF 1 SHEETS	STA. TO STA.

F.A.P. RTE. 318	SECTION (72-6HB-2)BRR	COUNTY PEORIA	TOTAL SHEETS 27	SHEET NO. 8
			CONTRACT NO. 68G69	
ILLINOIS FED. AID PROJECT				

GENERAL NOTES

All structural steel shall conform to AASHTO Classification M 270 Gr. 50 unless otherwise noted.
 All new structural steel, bolts, nuts and washers shall be hot-dip galvanized according to Special Provision "Hot Dip Galvanizing for Structural Steel."
 Fasteners shall be high strength bolts. Bolts 3/4 in. Ø, holes 13/16 in. Ø, unless otherwise noted.

No field welding is permitted except as specified in the contract documents.
 Reinforcement bars designated (E) shall be epoxy coated.
 Prior to pouring the new concrete, 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.

As directed by the Engineer, existing construction accessories welded to the top flange of beams and girders shall be removed. The weld areas shall be ground flush and inspected for cracks using magnetic particle testing (MT) or dye penetrant testing (PT) by qualified personnel approved by the Engineer.

Any cracks that cannot be removed by grinding 1/4 inch deep shall be identified and reported to the Bureau of Bridges and Structures for further disposition. The cost of removing welded accessories, grinding and inspecting weld areas and grinding cracks will be paid for according to Article 109.04 of the Standard Specifications.

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.

Existing structural steel shall only be cleaned and painted as required by the Special Provision for "Cleaning and Painting Contact Surface Areas of Existing Steel Structures."

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

Unless otherwise specified, 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 Structural Steel Repair.

Unless otherwise specified, existing reinforcement bars extending into the removal areas 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 deck surface shall have its final finish tined according to Article 420.09(e)(1) of the Standard Specifications. Cost included with Concrete Superstructure.

Work to be completed under road closure.

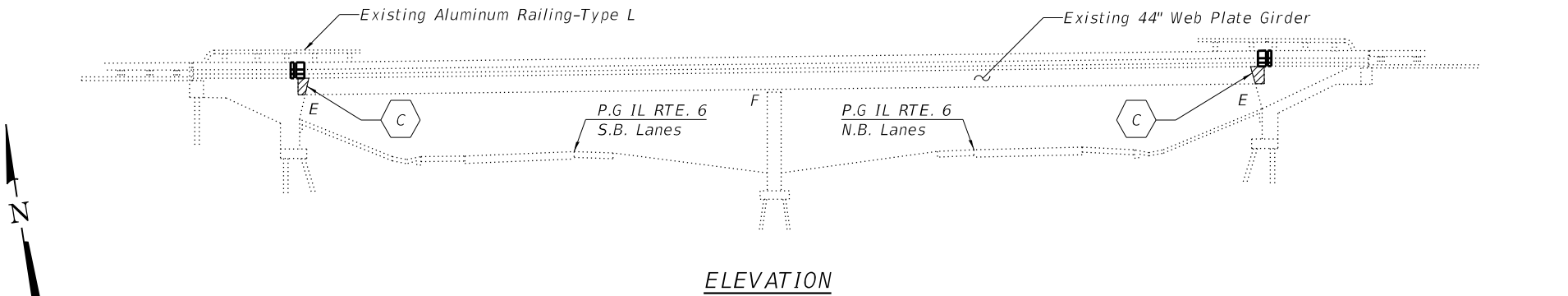
TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Concrete Removal	Cu. Yd.	11.0	1.4	12.4
Concrete Superstructure	Cu. Yd.	11.2		11.2
Protective Coat	Sq. Yd.	33		33
Reinforcement Bars, Epoxy Coated	Pound	1200		1200
Preformed Joint Strip Seal	Foot	86		86
Structural Steel Repair	Pound	2370		2370

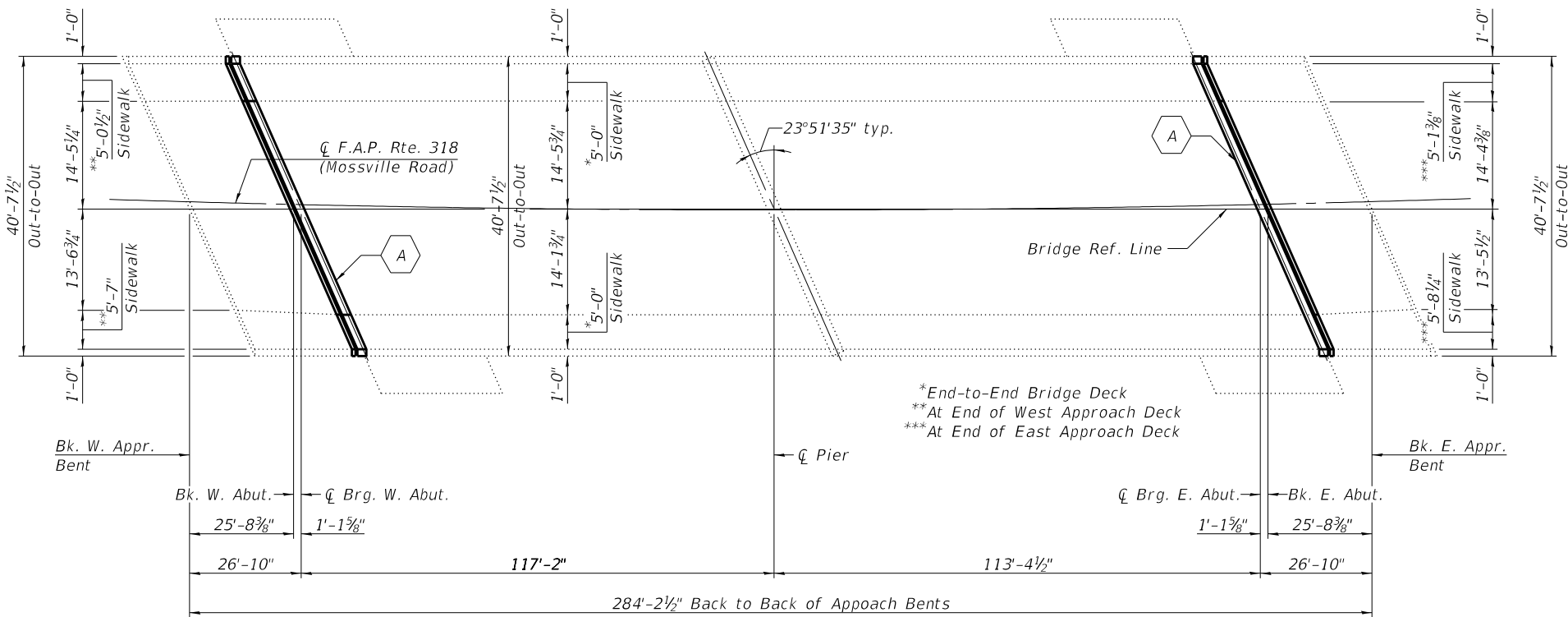
*** Apply to new concrete

INDEX OF SHEETS

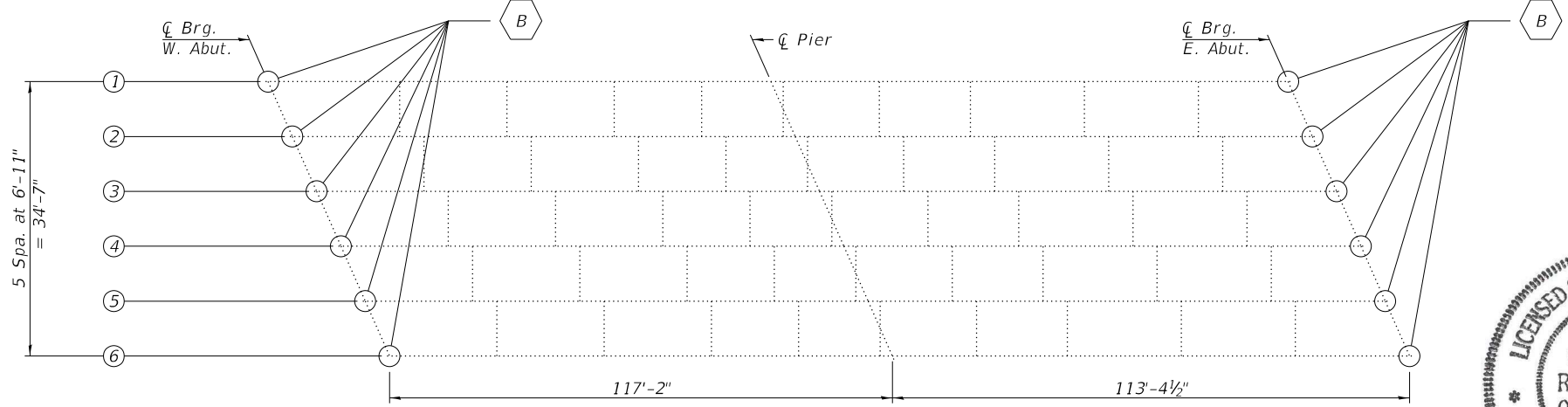
- 1 General Plan & Elevation
- 2-3 Joint Removal Details - Abutments
- 4 Joint Replacement Details - Abutments
- 5-7 Preformed Joint Strip Seal - Sidewalk
- 8 Structural Steel Repairs
- 9 Abutment Removal Details
- 10-19 Abbreviated Existing Bridge Plans



ELEVATION

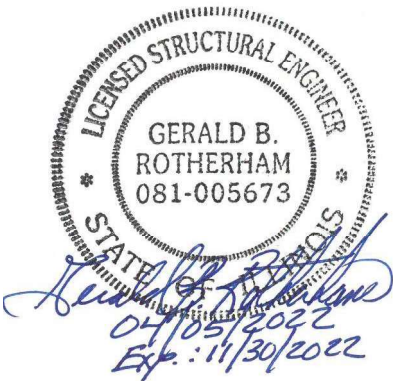


PLAN



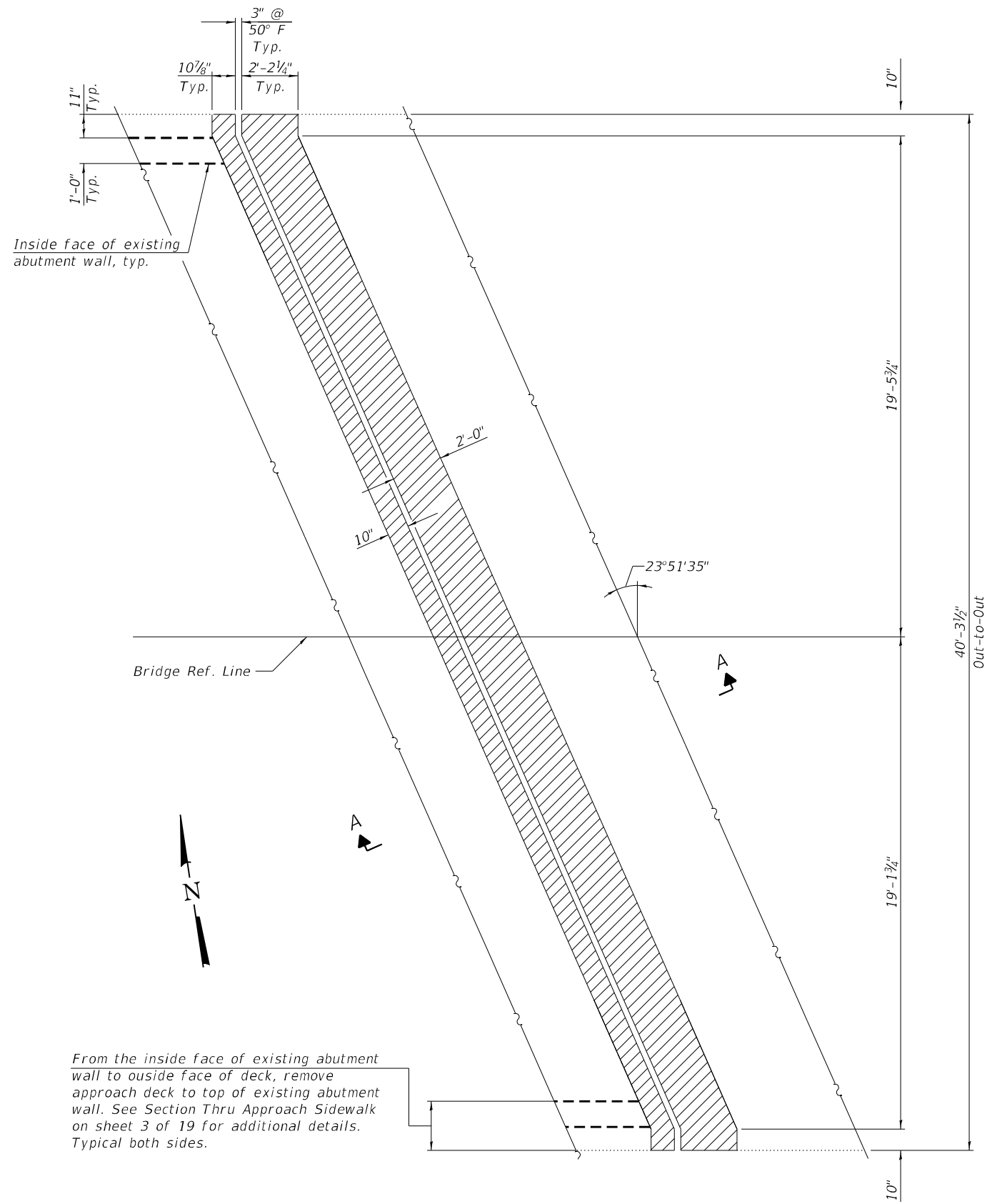
FRAMING PLAN

- A - Remove and Replace Expansion Joints at the Abutments with Preformed Joint Strip Seals
- B - Structural Steel Repair
- C - Abutment Concrete Removal

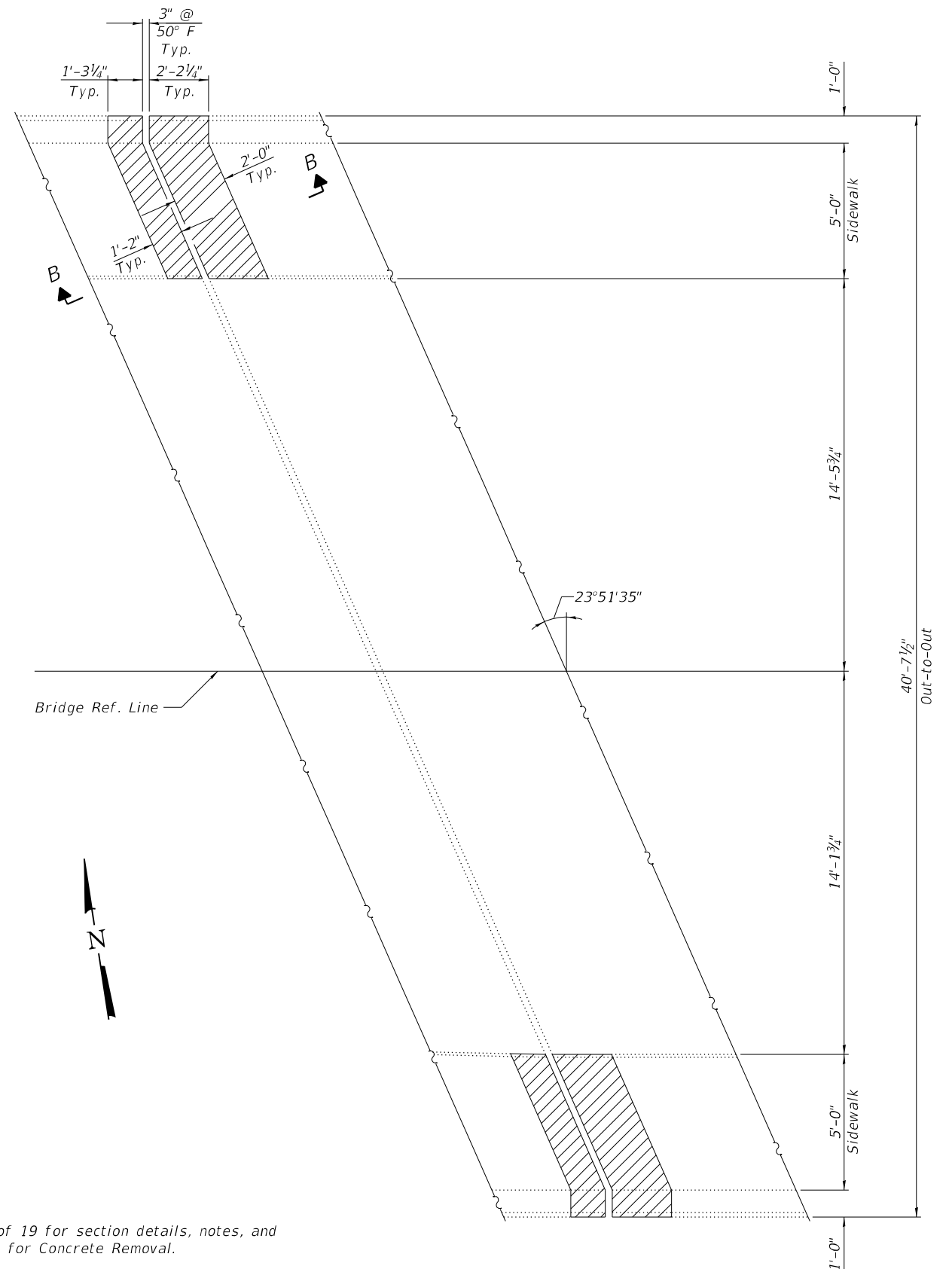


MODEL: Default
 FILE NAME: pw:\bentley.com\blwme\pw-01\Documents\BFW\PROJECTS\2021\PROJECTS\21507 - IDOT D4 PTB 199-25 WO #4 - Mossville Road over IL Route\DOT\Structures\Cad\0720148-68669-001-GPE.dgn
 4/5/2022 4:33:21 PM

MODEL: Default
 FILE NAME: p:\w\wme-pw\benley.com\bfwme-pw-01\Documents\BFW\PROJECTS\2021 PROJECTS\21507 - IDOT D4 PTB 199-25 WO #4 - Mossville Road over IL Route\DOT\Structures\Cad\0720148-68G69-002-Joint Removal Details.dgn



CONCRETE DECK REMOVAL
 (West Abutment shown, East Abutment similar)
 (Sidewalk not shown for clarity)



CONCRETE SIDEWALK REMOVAL
 (West Abutment shown, East Abutment similar)
 (Deck removal limits not shown for clarity)

Note:
 See sheet 3 of 19 for section details, notes, and Bill of Material for Concrete Removal.

LEGEND
 Concrete Removal

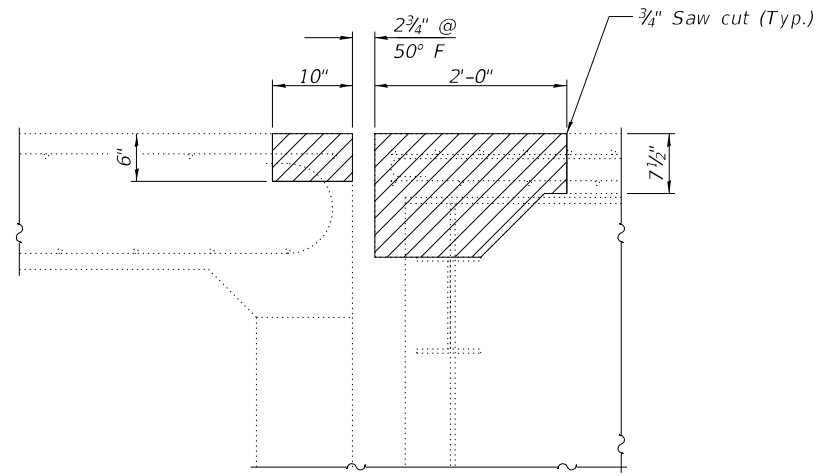
BACON FARMER WORKMAN ENGINEERING & TESTING, INC. <small>431 SOUTH GRAND AVE. WEST SPRINGFIELD, ILLINOIS 62704 PHONE - 317.879.0254</small>	USER NAME =	DESIGNED - JGY	REVISED -
		CHECKED - GBR	REVISED -
	PLOT SCALE =	DRAWN - JGY	REVISED -
	PLOT DATE =	CHECKED - GBR	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

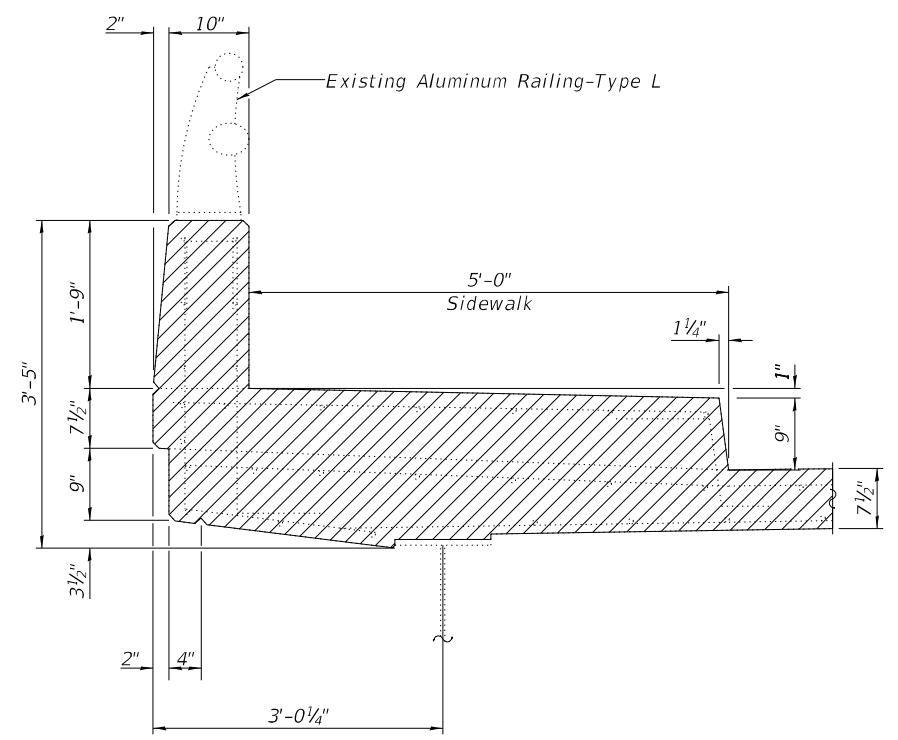
JOINT REMOVAL DETAILS - ABUTMENTS
STRUCTURE NO. 072-0148

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	(72-6HB-2)BR	PEORIA	27	10
CONTRACT NO. 68G69				

MODEL: Default
 FILE NAME: p:\w\161wme-pw-bentley.com\bfwme-pw-01\Documents\BFW\PROJECTS\2021 PROJECTS\21507 - IDOT D4 PTB 199-25 WO #4 - Mossville Road over IL Route\DOT Structures\Cad\0720148-68G69-003-Joint Removal Details.dgn
 4/1/2022 8:54:29 AM



SECTION A-A

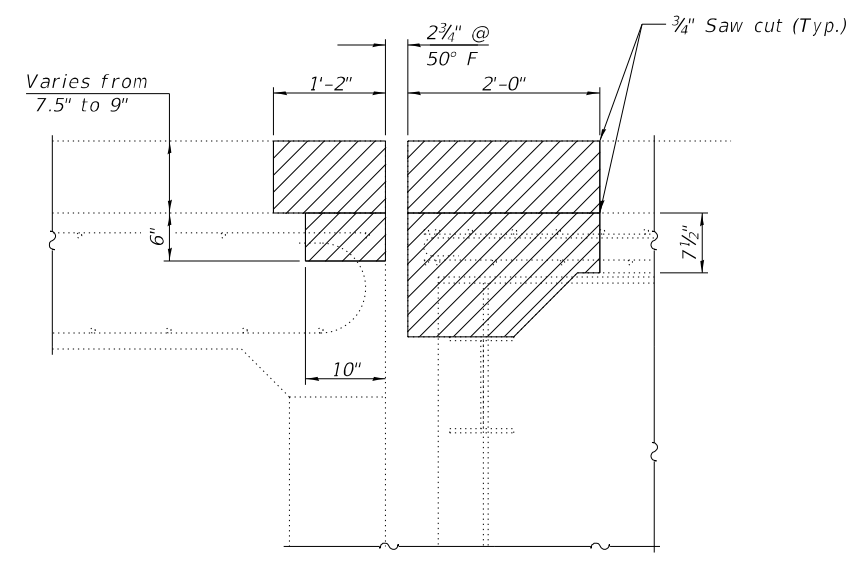


SECTION THRU BRIDGE SIDEWALK

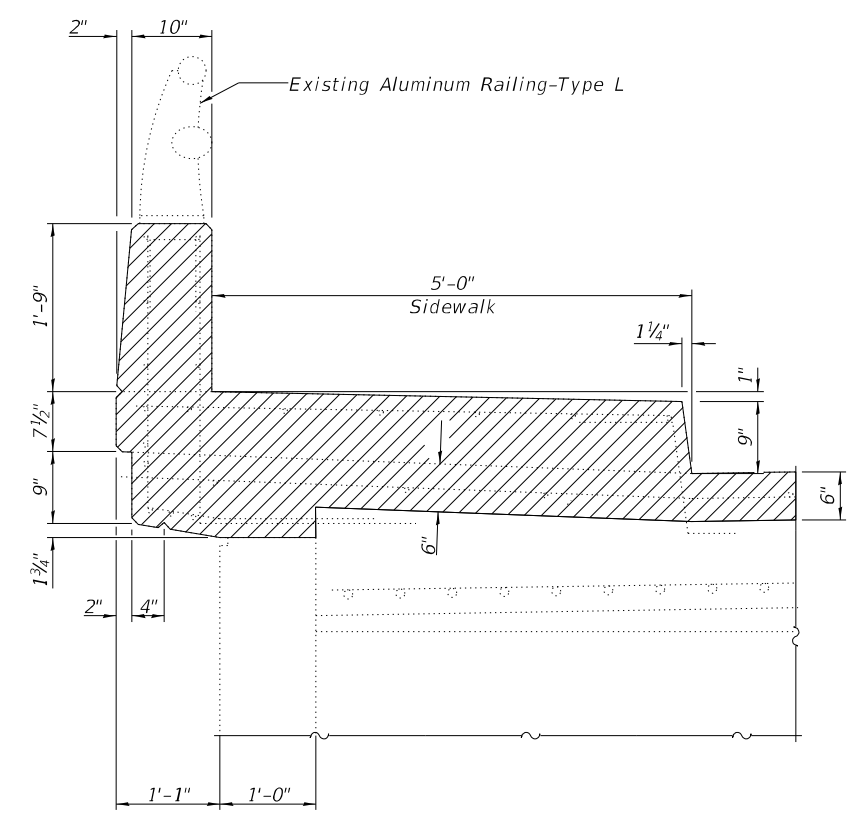
Note:
 The existing expansion joint system and any associated material shall be removed. The cost is included with concrete removal.
 The existing aluminum rail within the removal and replacement limits may be removed to allow work to be completed. The Contractor shall safely store all material to be reincorporated. The method of reattaching the rail shall be approved by the Engineer. The cost is included with concrete removal.

LEGEND

Concrete Removal



SECTION B-B



SECTION THRU APPROACH SIDEWALK

BILL OF MATERIAL - TWO JOINTS

Item	Unit	Total
Concrete Removal	Cu. Yd.	11.0

BACON | FARMER | WORKMAN
 ENGINEERING & TESTING, INC.
 431 SOUTH GRAND AVE. WEST
 SPRINGFIELD, ILLINOIS 62704
 PHONE - 317.879.0254

USER NAME =	DESIGNED - JGY	REVISED -
PILOT SCALE =	CHECKED - GBR	REVISED -
PILOT DATE =	DRAWN - JGY	REVISED -
	CHECKED - GBR	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

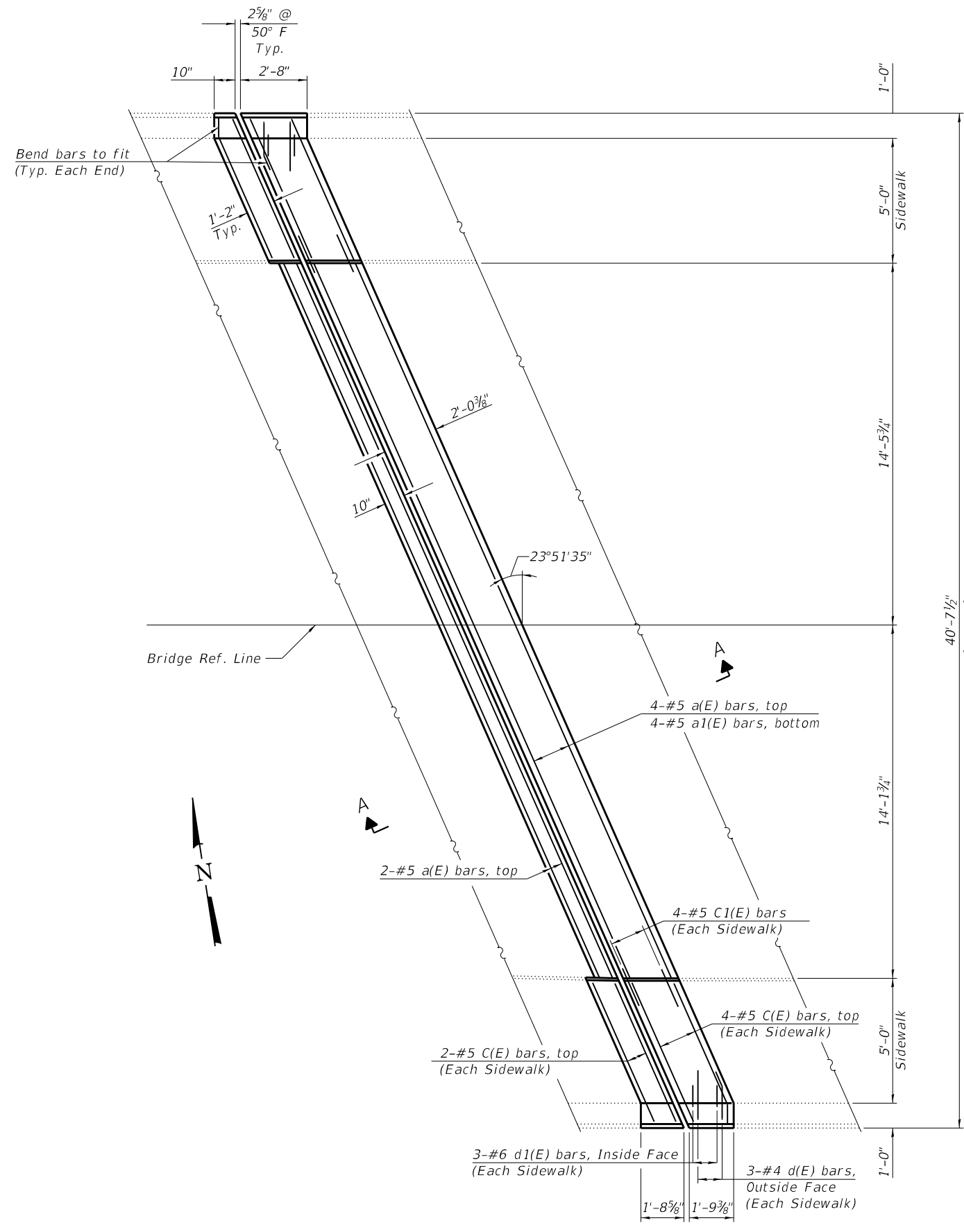
JOINT REMOVAL DETAILS - ABUTMENTS
STRUCTURE NO. 072-0148

SHEET 3 OF 19 SHEETS

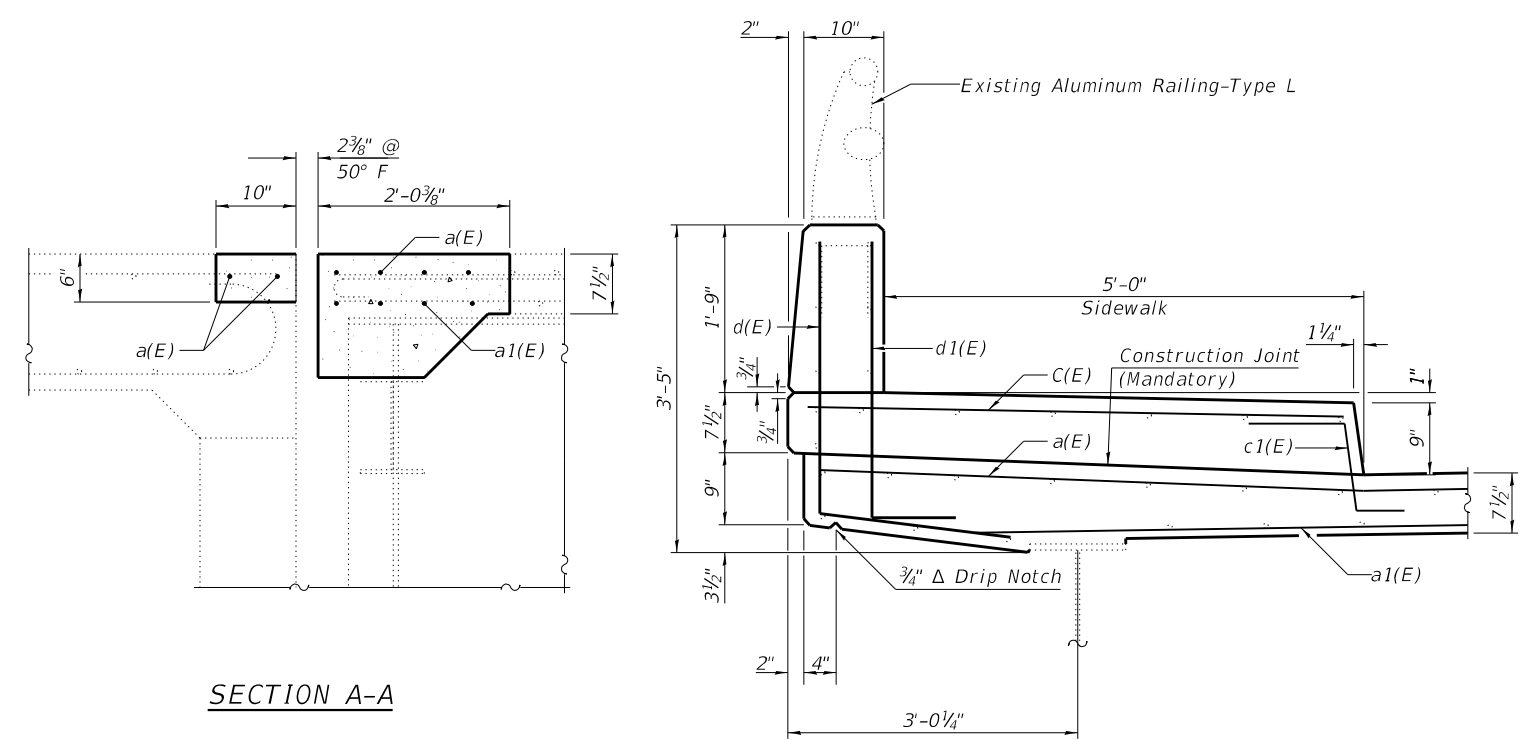
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	(72-6HB-2)BRR	PEORIA	27	11
ILLINOIS			FED. AID PROJECT	

CONTRACT NO. 68G69

MODEL: Default
 FILE NAME: p:\wme-pw-bentley.com\bl\wme-pw-01\Documents\BFW\PROJECTS\2021 PROJECTS\21507 - IDOT D4 PTB 199-25 WO #4 - Mossville Road over IL Route\DOT\Structures\Cad\0720148-68669-04-Joint Replacement_Details.dgn

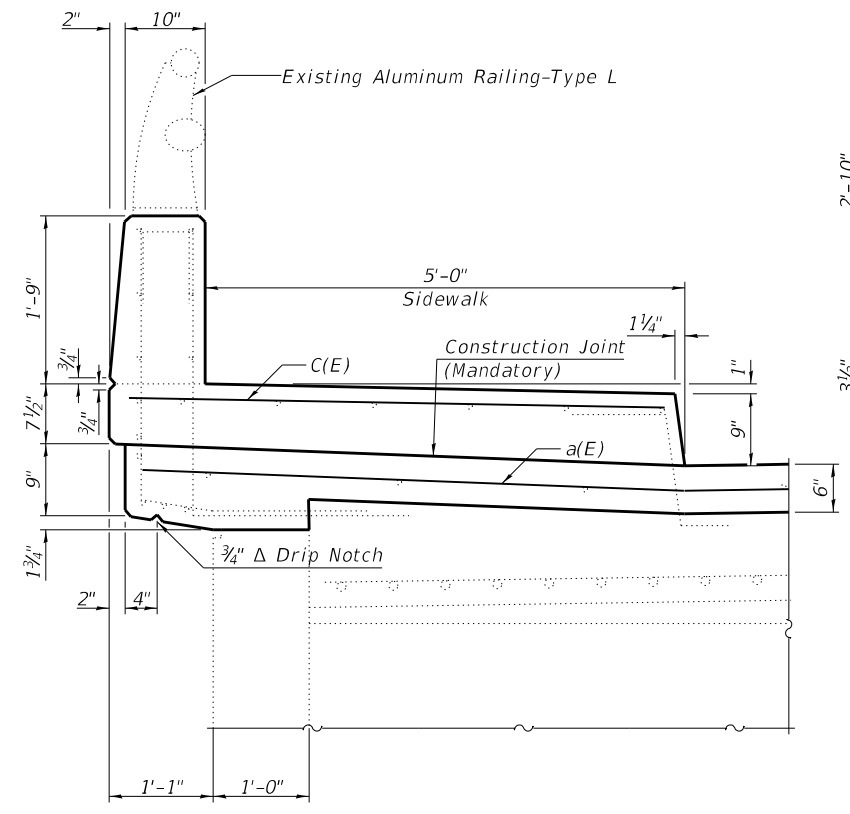


CONCRETE REPLACEMENT
 (West Abutment shown, East Abutment similar)

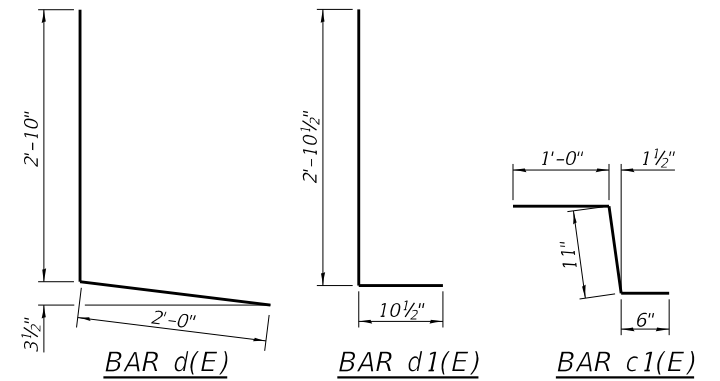


SECTION A-A

SECTION THRU BRIDGE SIDEWALK



SECTION THRU APPROACH SIDEWALK



BILL OF MATERIAL - TWO JOINTS

Bar	No.	Size	Length	Shape
a(E)	12	#5	43'-9"	—
a1(E)	8	#5	42'-3"	—
c(E)	24	#5	6'-1"	—
c1(E)	16	#5	2'-5"	⌋
d(E)	12	#4	4'-10"	L
d1(E)	12	#6	3'-9"	L
Concrete Superstructure			Cu. Yd.	11.2
Reinforcement Bars, Epoxy Coated			Pound	1200
* Protective Coat			Sq. Yd.	33

*Apply to new concrete

BACON | FARMER | WORKMAN
 ENGINEERING & TESTING, INC.
 431 SOUTH GRAND AVE. WEST
 SPRINGFIELD, ILLINOIS 62704
 PHONE - 217.675.6254

USER NAME =	DESIGNED - JGY	REVISED -
PLOT SCALE =	CHECKED - GBR	REVISED -
PLOT DATE =	DRAWN - JGY	REVISED -
	CHECKED - GBR	REVISED -

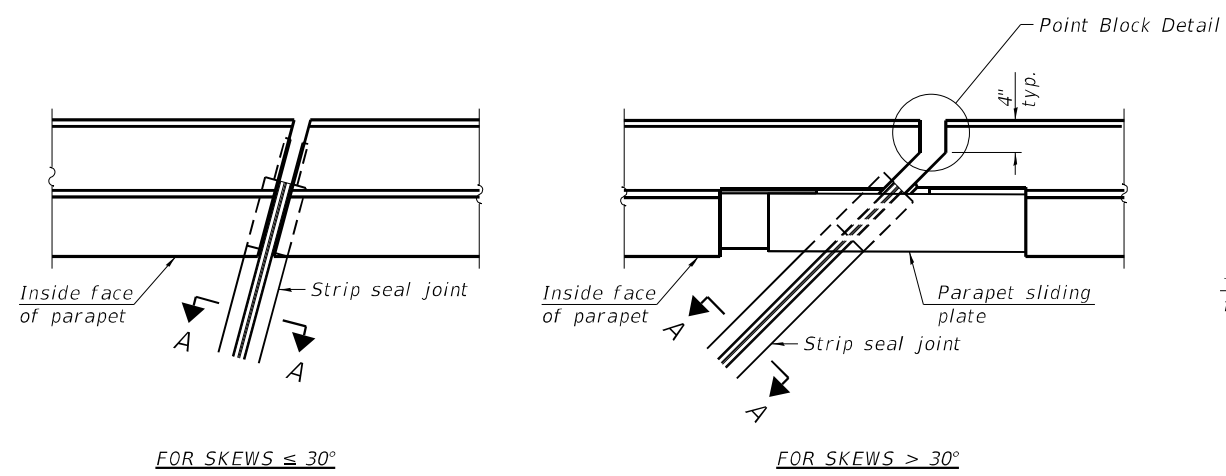
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

JOINT REPLACEMENT DETAILS - ABUTMENTS
STRUCTURE NO. 072-0148

SHEET 4 OF 19 SHEETS

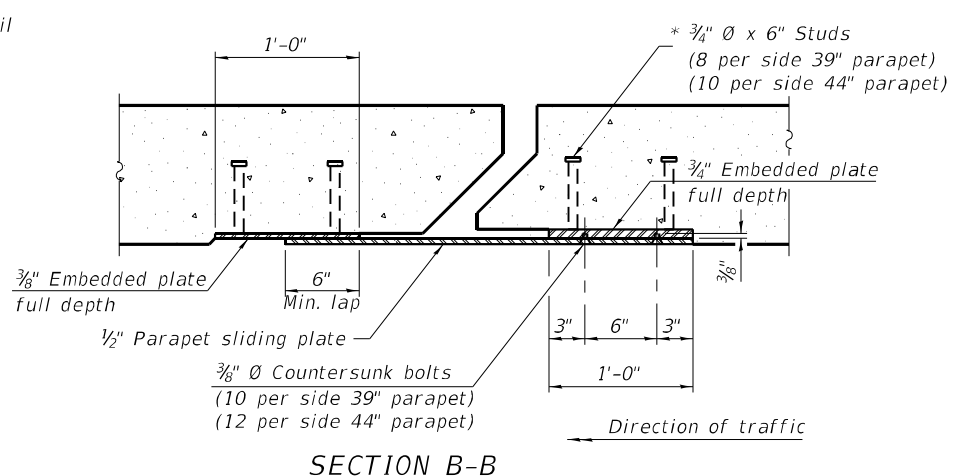
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	(72-6HB-2)BRR	PEORIA	27	12
CONTRACT NO. 68G69				
ILLINOIS		FED. AID PROJECT		

MODEL: Default
 FILE NAME: p:\w\1\wme-pw\pwr-01\Documents\BFW\PROJECTS\2021\PROJECTS\215107 - IDOT D4 PTB 199-25 WO #4 - Mossville Road over IL Route\DOT Structures\Cad\0720148-68669-005-Preformed Joint Strip Seal.dgn
 4/1/2022 8:54:42 AM



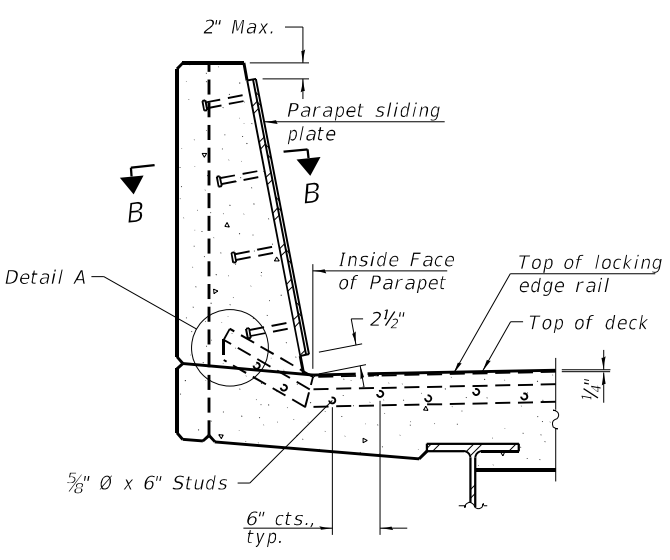
FOR SKEWS $\leq 30^\circ$

PLAN AT PARAPET



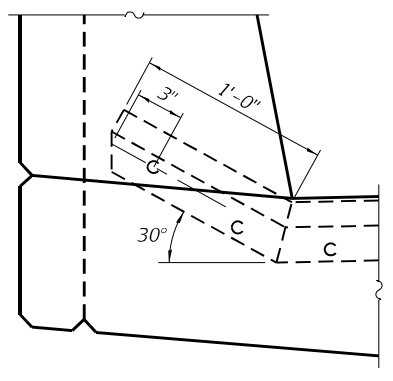
SECTION B-B

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 4 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 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.
 The top surface of sidewalk sliding plates shall have a raised pattern according to ASTM A786.
 Cost of parapet sliding plates, sidewalk sliding plates, embedded plates, anchorage studs, and expansion anchors included with Preformed Joint Strip Seal.
 39" constant slope barrier shown, 44" constant slope barrier 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.

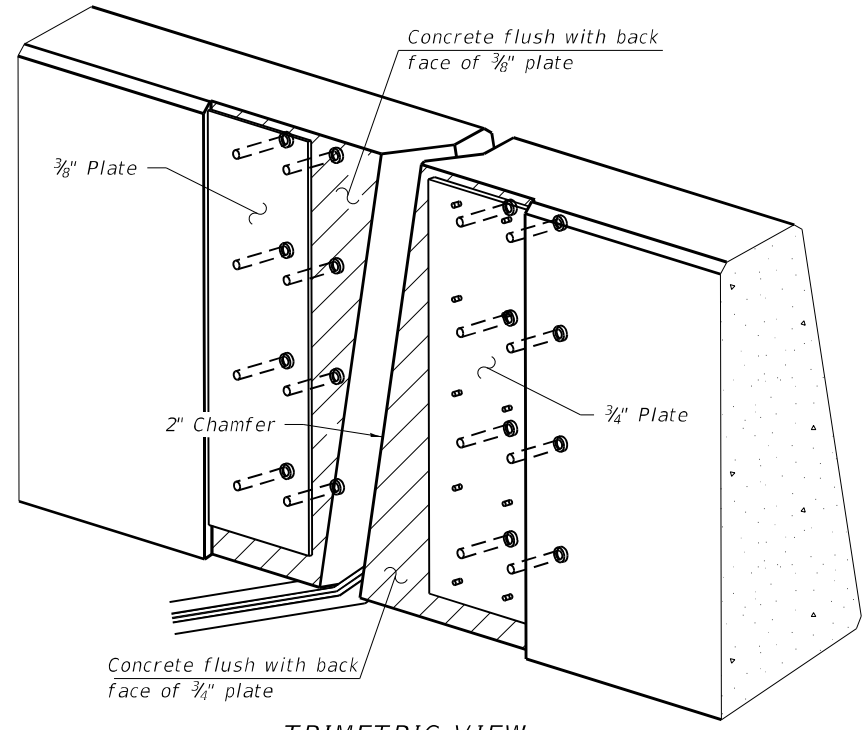


SECTION AT PARAPET

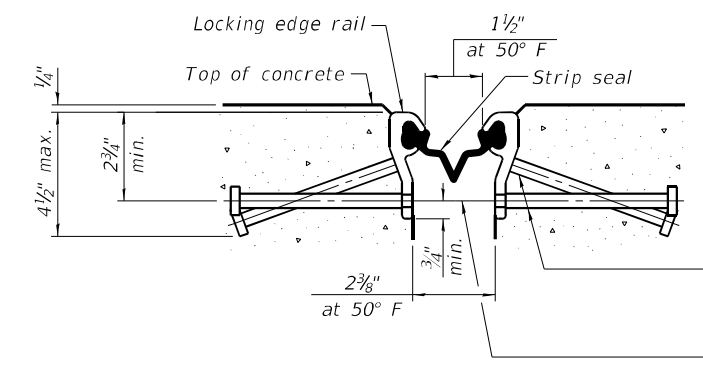
(Skews > 30° shown. Skews $\leq 30^\circ$ similar except as shown in plan view.)



DETAIL A

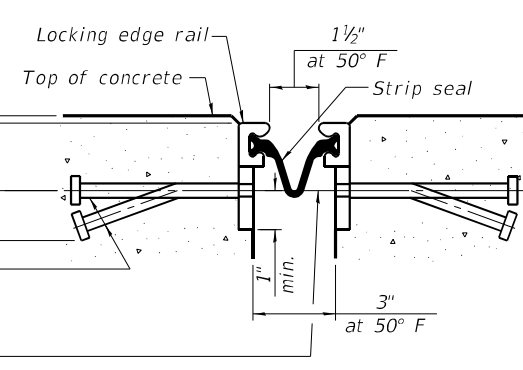


TRIMETRIC VIEW
(Showing embedded plates only)

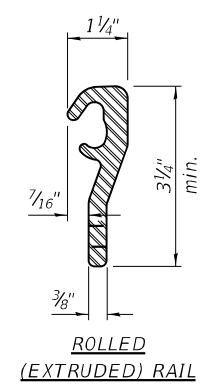


SHOWING ROLLED RAIL JOINT

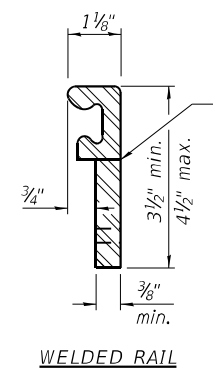
* 3/8" ϕ x 6" studs @ 6" cts. (alternate angled/bent studs with horizontal studs)
 3/8" ϕ threaded rods in 1/16" ϕ holes at ± 4 -0" cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.



SHOWING WELDED RAIL JOINT



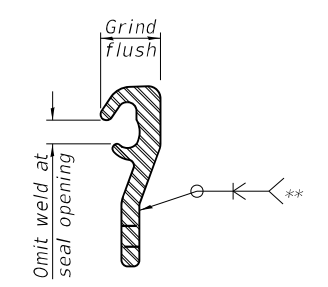
ROLLED (EXTRUDED) RAIL



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	86

(Sheet 1 of 3)

BACON | FARMER | WORKMAN
 ENGINEERING & TESTING, INC.
 431 SOUTH GRAND AVE. WEST
 SPRINGFIELD, ILLINOIS 62704
 PHONE - 317.879.0254

USER NAME =	DESIGNED - JGY	REVISED -
PLOT SCALE =	CHECKED - GBR	REVISED -
PLOT DATE =	DRAWN - JGY	REVISED -
	CHECKED - GBR	REVISED -

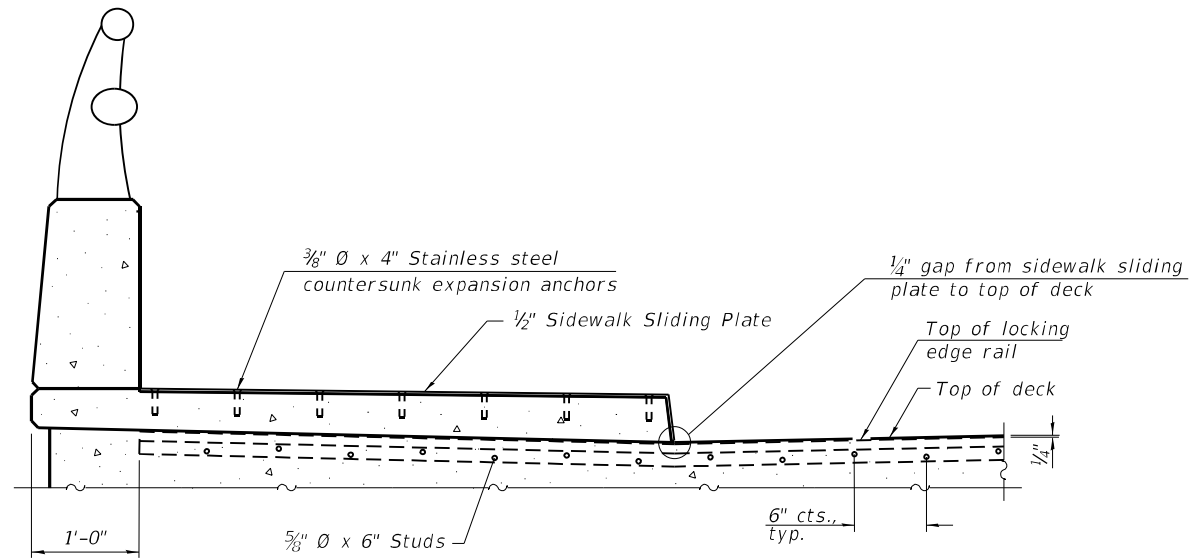
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PREFORMED JOINT STRIP SEAL - SIDEWALK
STRUCTURE NO. 072-0148

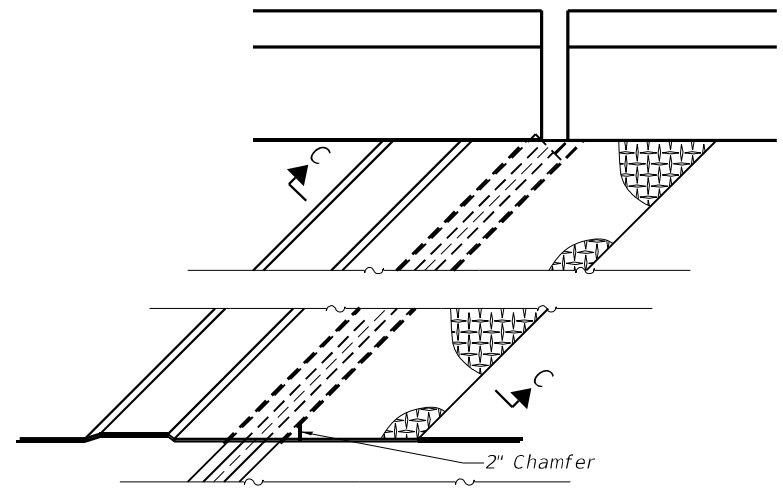
SHEET 5 OF 19 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	(72-6HB-2)BRR	PEORIA	27	13
CONTRACT NO. 68G69				
ILLINOIS		FED. AID PROJECT		

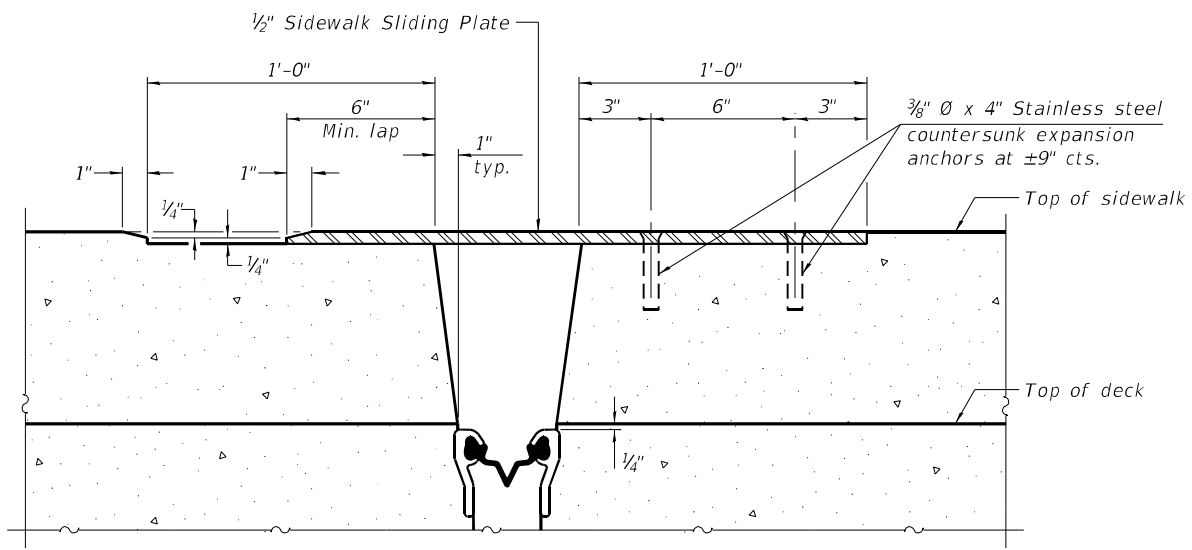
MODEL: Default
 FILE NAME: p:\w\wme-pw\benley.com\bfwme-pw-01\Documents\BFW\PROJECTS\2021\PROJECTS\21507 - IDOT D4 PTB 199+25 WO #4 - Mossville Road over IL Route\DOT\Structures\Cad\0720148-68G69-006-Preformed Joint Strip Seal.dgn



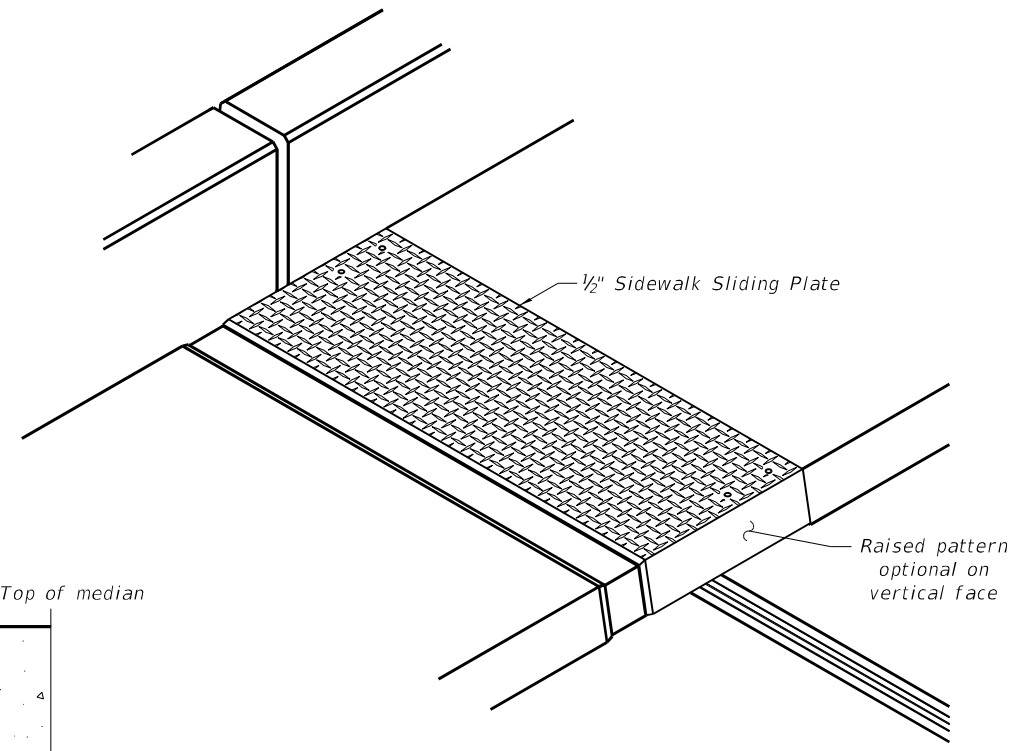
SECTION AT RAISED SIDEWALK



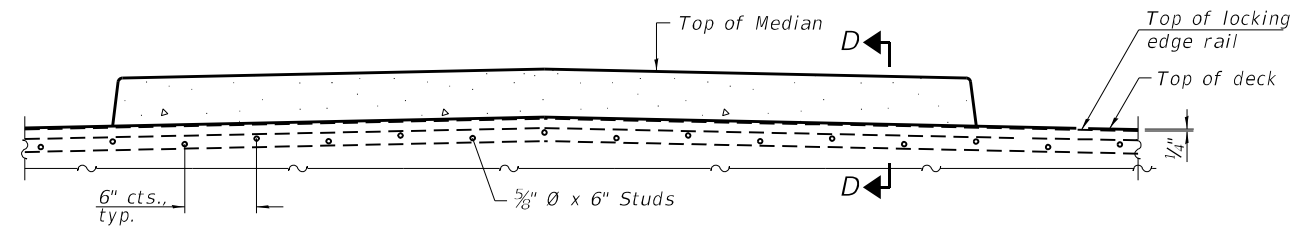
PLAN AT RAISED SIDEWALK



SECTION C-C

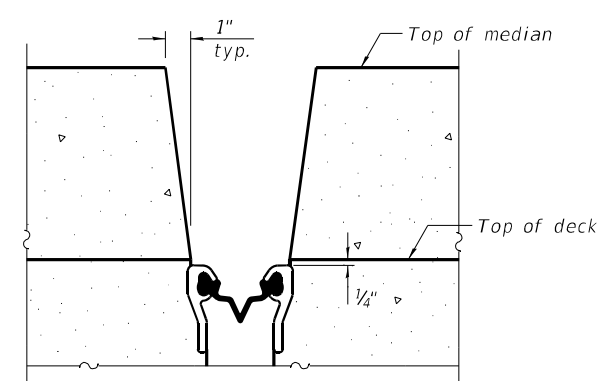


TRIMETRIC VIEW



SECTION AT MEDIAN

For skews > 30°, chamfer acute corners 2" similar to sidewalk.



**SECTION D-D
 (at Rt. L's)**

(Sheet 2 of 3)

BACON | FARMER | WORKMAN
 ENGINEERING & TESTING, INC.
 431 SOUTH GRAND AVE. WEST
 SPRINGFIELD, ILLINOIS 62704
 PHONE - 317.879.0254

USER NAME =	DESIGNED - JGY	REVISED -
PLOT SCALE =	CHECKED - GBR	REVISED -
PLOT DATE =	DRAWN - JGY	REVISED -
	CHECKED - GBR	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

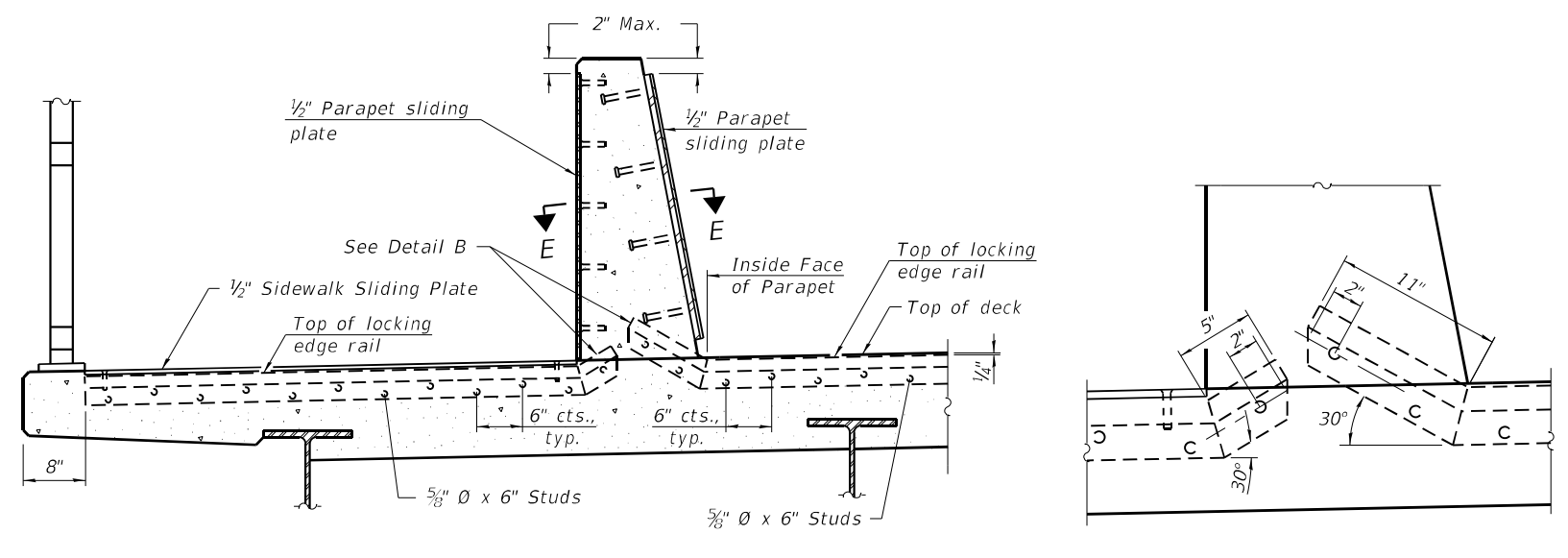
**PREFORMED JOINT STRIP SEAL - SIDEWALK
 STRUCTURE NO. 072-0148**

SHEET 6 OF 19 SHEETS

F.A.P. RTE. 318	SECTION (72-6HB-2)BRR	COUNTY PEORIA	TOTAL SHEETS 27	SHEET NO. 14
CONTRACT NO. 68G69				

ILLINOIS FED. AID PROJECT

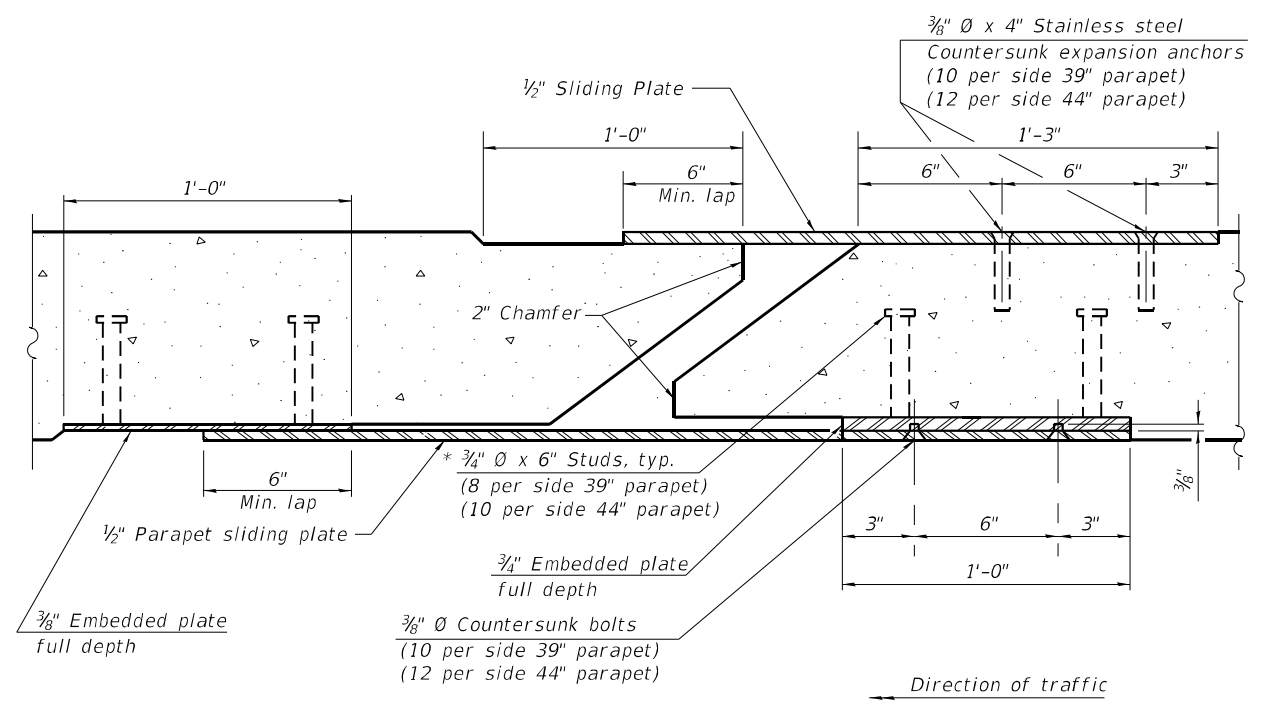
MODEL: Default
 FILE NAME: pw:\b\wme-pw-bentley.com\b\wme-pw-01\Documents\BFW\PROJECTS\2021\PROJECTS\21507 - IDOT D4 PTB 199+25 WO #4 - Mossville Road over IL Route\DOT Structures\Cad\0720148-68G69-007-Preformed Joint Strip Seal.dgn



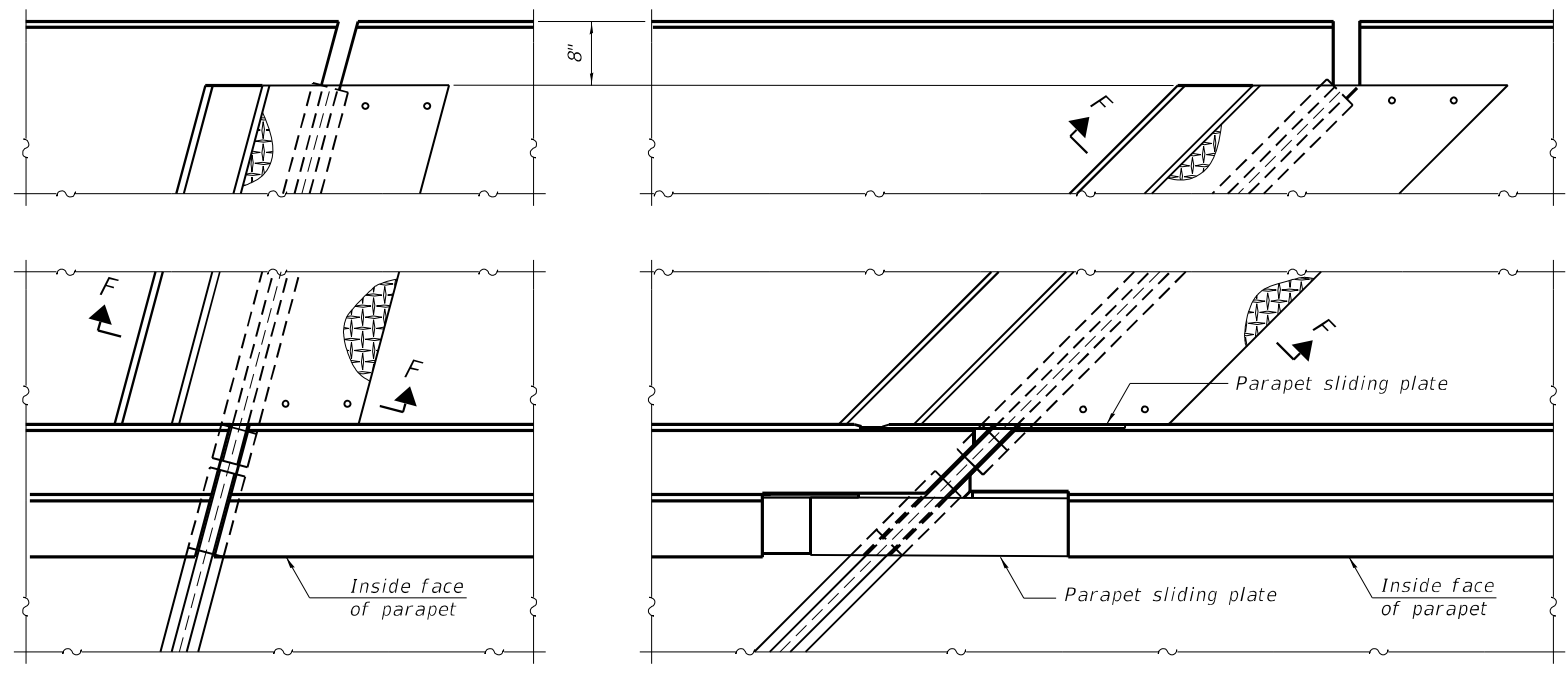
SECTION AT DECK LEVEL SIDEWALK

(Skews > 30° shown. Skews ≤ 30° similar except as shown in plan view.)

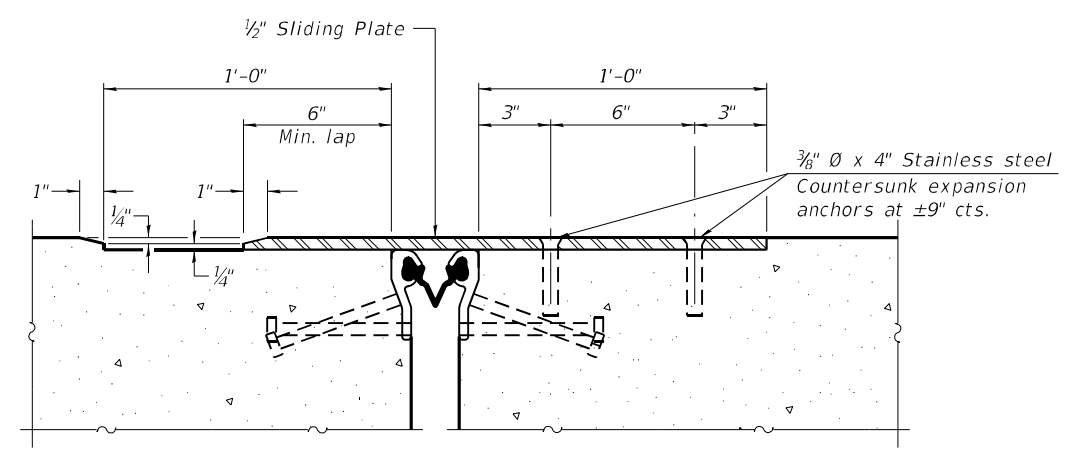
DETAIL B



SECTION E-E



PLAN AT DECK LEVEL SIDEWALK



SECTION F-F

(Sheet 3 of 3)

BACON | FARMER | WORKMAN
 ENGINEERING & TESTING, INC.
 431 SOUTH GRAND AVE. WEST
 SPRINGFIELD, ILLINOIS 62704
 PHONE - 317.879.0254

USER NAME =	DESIGNED - JGY	REVISED -
PLOT SCALE =	CHECKED - GBR	REVISED -
PLOT DATE =	DRAWN - JGY	REVISED -
	CHECKED - GBR	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

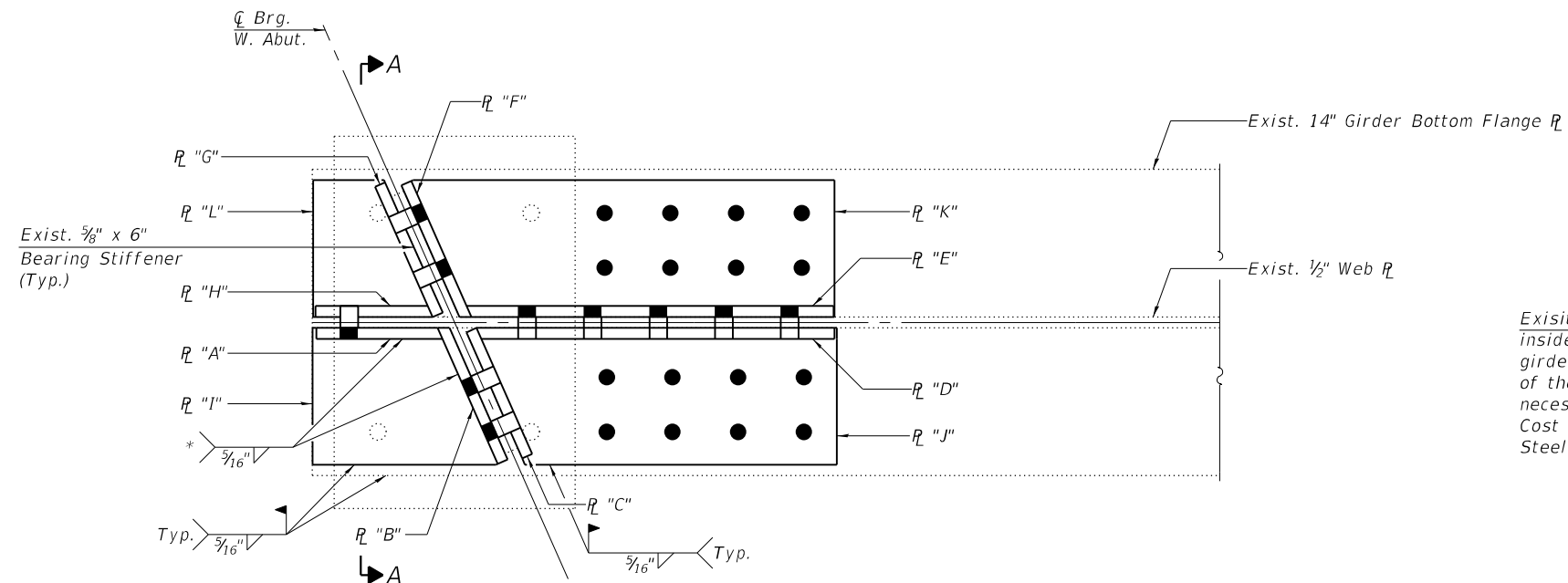
PREFORMED JOINT STRIP SEAL - SIDEWALK
STRUCTURE NO. 072-0148

SHEET 7 OF 19 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	(72-6HB-2)BRR	PEORIA	27	15
CONTRACT NO. 68G69				

ILLINOIS FED. AID PROJECT

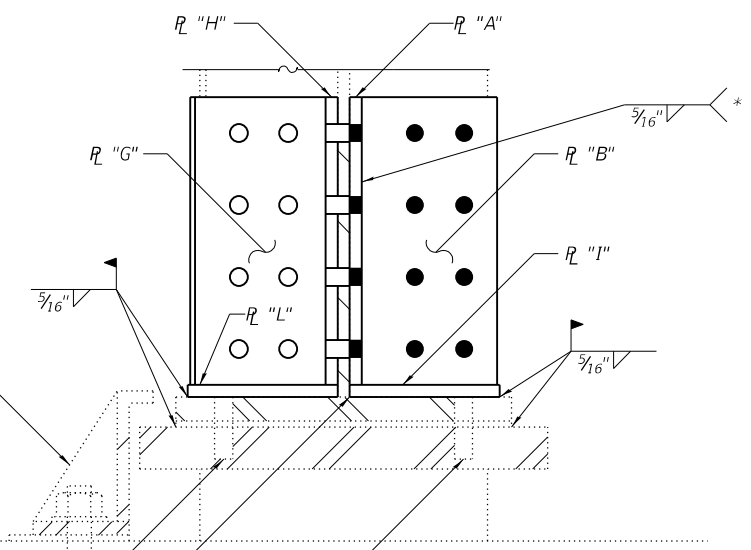
MODEL: Default
FILE NAME: p:\w\me-pw\benley.com\bl\wme-pw-01\Documents\BFW\PROJECTS\2021 PROJECTS\2151507 - IDOT D4 PTB 195-25 WO #4 - Mossville Road over IL Route\DOT\Structures\Cad\0720148-68669-008-Structural Steel Repairs.dgn



REPAIR "B"

(W. Abut. Shown - E. Abut. Similar)
(Existing side retainer not shown for clarity)

Note:
Plates "A" through "L" are 1/2" thick.
Plate details show exposed face of plates.
*Typ. each three-sided support



SECTION A-A

Existing side retainer at inside face of exterior girders. Cut top bent portion of the retainer angle as necessary to place weld. Cost included with Structural Steel Repair.

Existing 3/4" threaded studs to be cut flush with top of girder bottom flange

Grind corner to match radius of existing web to flange weld (Typ.)

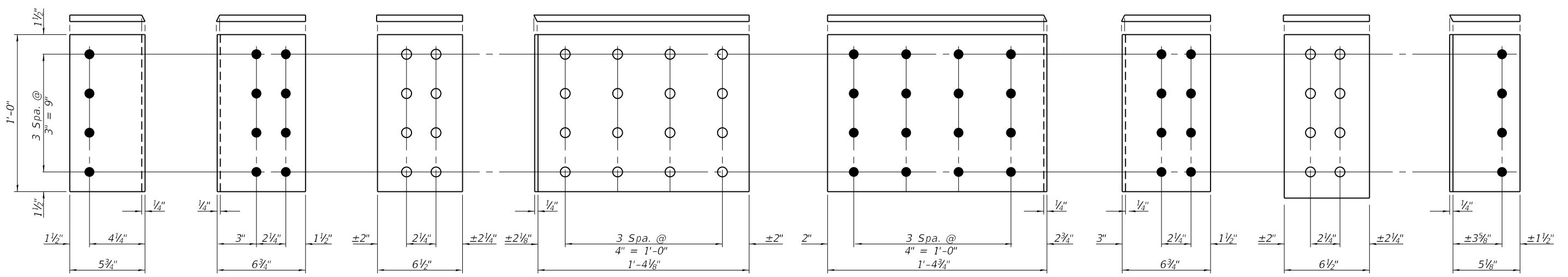


PLATE "A"

PLATE "B"

PLATE "C"

PLATE "D"

PLATE "E"

PLATE "F"

PLATE "G"

PLATE "H"

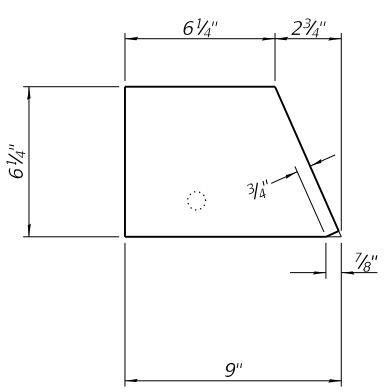


PLATE "I"

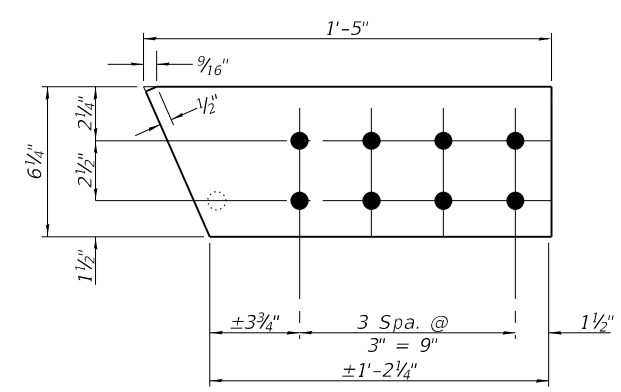


PLATE "J"

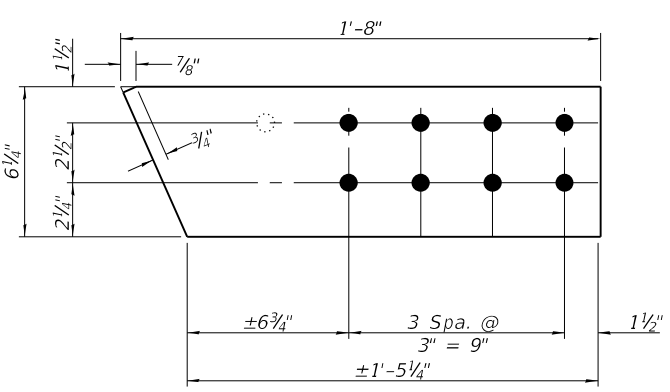


PLATE "K"

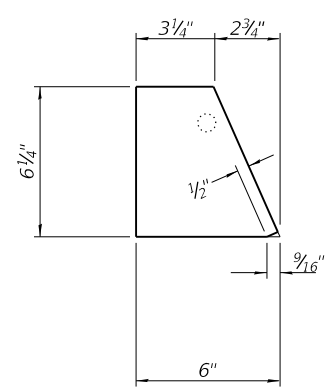


PLATE "L"

- BOLT HOLE LEGEND**
- - Field drill using new steel as template.
 - - Shop drill holes in new steel.
 - ⊙ - Existing 3/4" Ø threaded studs to be cut flush with top of girder bottom flange.

BILL OF MATERIAL

Item	Unit	Total
Structural Steel Repair	Pound	2370

BACON | FARMER | WORKMAN
ENGINEERING & TESTING, INC.
431 SOUTH GRAND AVE. WEST
SPRINGFIELD, ILLINOIS 62704
PHONE - 217.675.0254

USER NAME =	DESIGNED - JGY	REVISED -
PLOT SCALE =	CHECKED - GBR	REVISED -
PLOT DATE =	DRAWN - JGY	REVISED -
	CHECKED - GBR	REVISED -

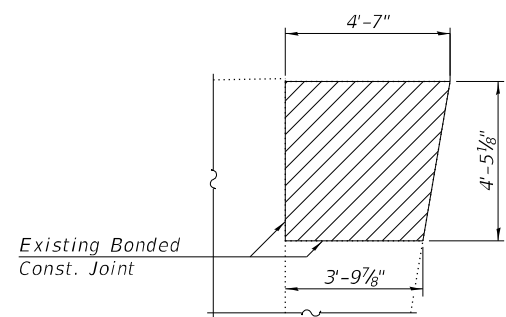
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURAL STEEL REPAIR
STRUCTURE NO. 072-0148

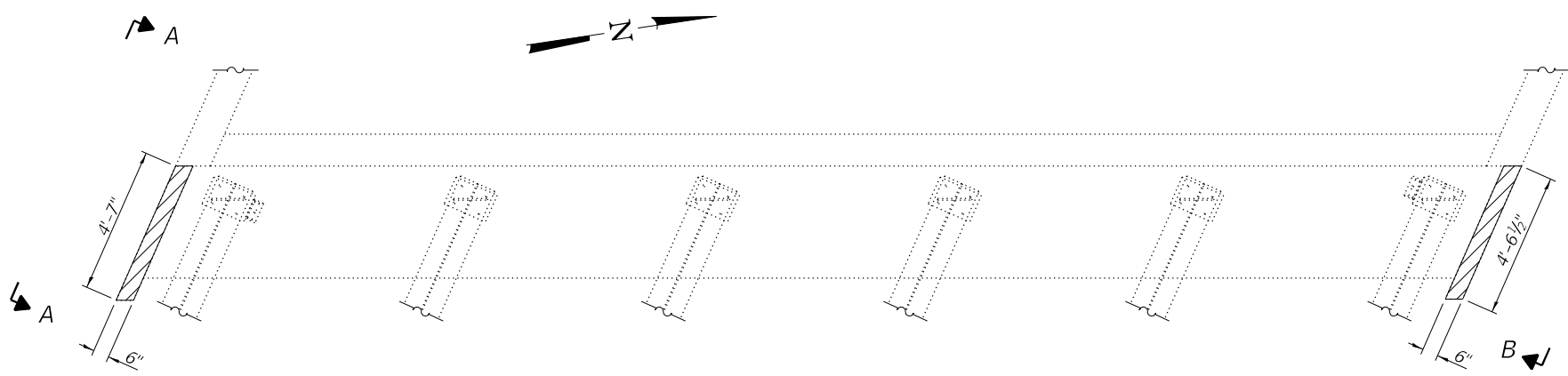
SHEET 8 OF 19 SHEETS

F.A.P. RTE. 318	SECTION (72-6HB-2)BRR	COUNTY PEORIA	TOTAL SHEETS 27	SHEET NO. 16
CONTRACT NO. 68G69				
ILLINOIS FED. AID PROJECT				

MODEL: Default
 FILE NAME: p:\w\wme-pw\benley.com\bfwme-pw-01\Documents\BFW\PROJECTS\2021\PROJECTS\21507 - IDOT D4 PTB 199-25 WO #4 - Mossville Road over IL Route\DOT\Structures\Cad\0720148-68G69-009-Abutment Removal Details.dgn

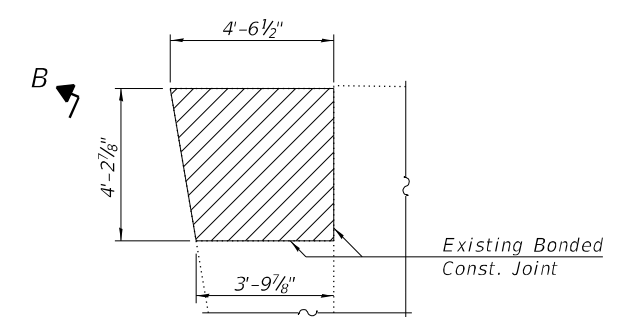


VIEW A-A

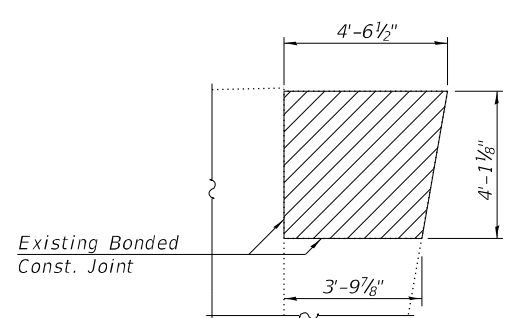


CONCRETE REMOVAL - WEST ABUTMENT

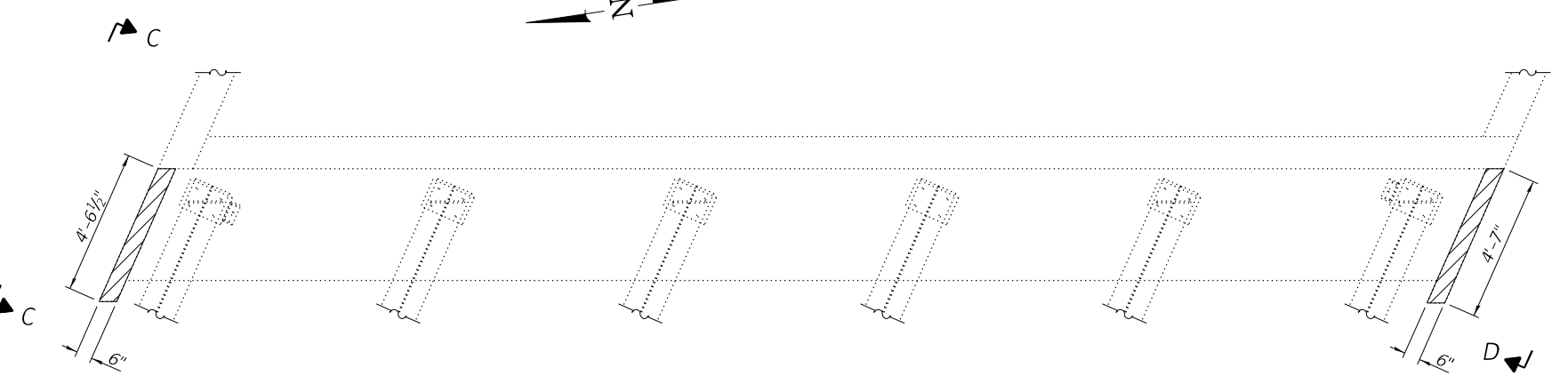
LEGEND



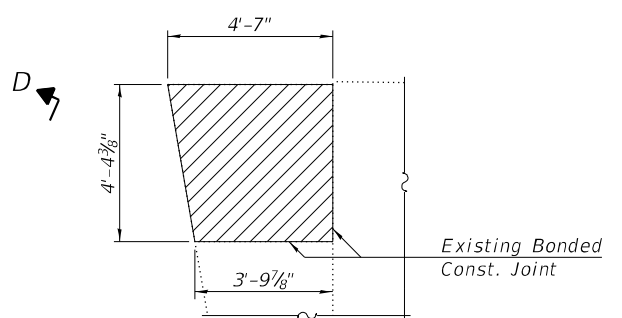
VIEW B-B



VIEW C-C



CONCRETE REMOVAL - EAST ABUTMENT



VIEW D-D

Note:
 Existing reinforcement extending into the limits of abutment concrete to be removed shall be cut flush with the concrete surface at the existing bonded construction joint locations. Grind existing reinforcement bars smooth and seal with epoxy. The cost is included with Concrete Removal.

BILL OF MATERIAL - TWO ABUTMENTS

Item	Unit	Total
Concrete Removal	Cu. Yd.	1.4

BACON | FARMER | WORKMAN
 ENGINEERING & TESTING, INC.
 431 SOUTH GRAND AVE. WEST
 SPRINGFIELD, ILLINOIS 62704
 PHONE - 317.879.0254

USER NAME =	DESIGNED - JGY	REVISED -
PILOT SCALE =	CHECKED - GBR	REVISED -
PILOT DATE =	DRAWN - JGY	REVISED -
	CHECKED - GBR	REVISED -

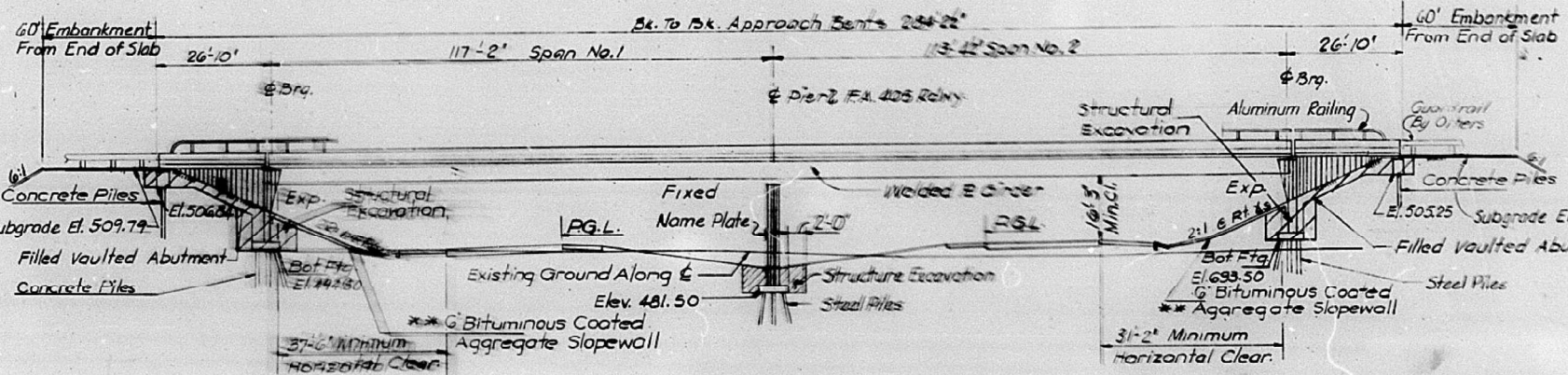
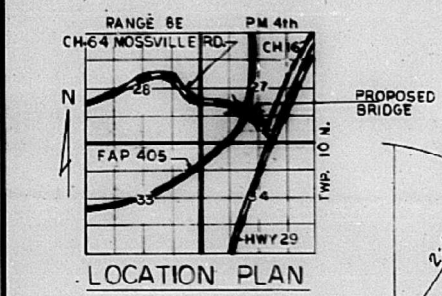
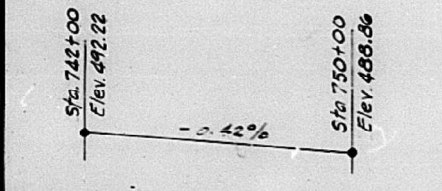
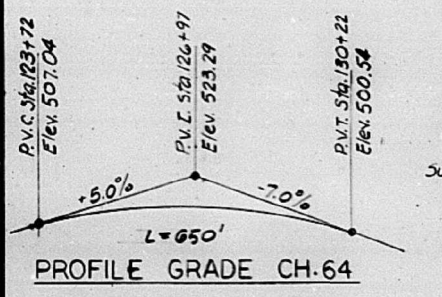
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ABUTMENT REMOVAL DETAILS
STRUCTURE NO. 072-0148

SHEET 9 OF 19 SHEETS

F.A.P. RTE. 318	SECTION (72-6HB-2)BRR	COUNTY PEORIA	TOTAL SHEETS 27	SHEET NO. 17
CONTRACT NO. 68G69				
ILLINOIS FED. AID PROJECT				

BENCH MARK: R.R. SPIKE 34' RT. AT STA. 129+12.00 ELEV. 483.47'



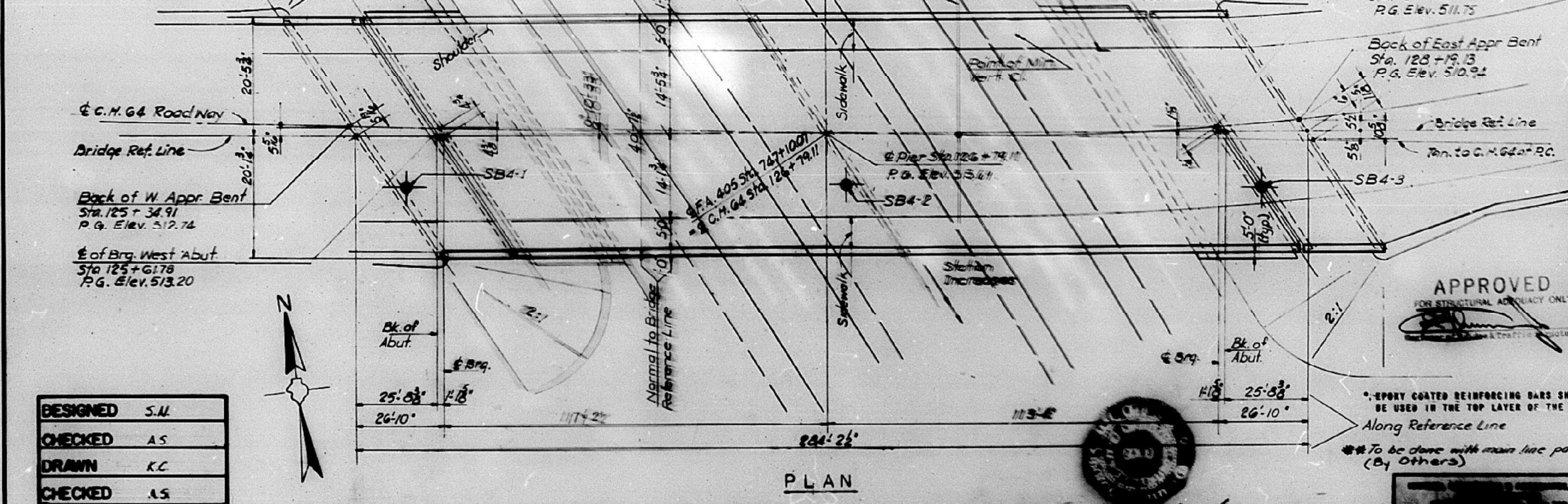
ELEVATION

C.H. 64 CURVE DATA
 P.I. STA. 130+71.10
 Δ = 7°02'48"
 D = 1°00'00"
 T = 352.78'
 L = 704.67'
 R = 5729.53'
 E = 10.85'
 S.E. = 0.02117'
 S.E. TRANSITION STA. 126+18.32 TO STA. 127+68.32

F.A. 405 CURVE DATA
 P.I. STA. 772+74.28
 Δ = 79°23'19"
 D = 1°45'00"
 T = 2722.44'
 L = 4542.21'
 R = 3274.04'
 E = 948.01'
 S.E. = 0.05617'

DESIGN STRESSES
STRUCTURAL STEEL
 f_s = 27,000 PSI AASHTO M223 G-50
 f_s = 20,000 PSI AASHTO M183
CONC. f_c = 1,400 PSI VAULTED ABUTMENT, CURS, PARAPET, AND SUBSTRUCTURE
 v_c = 56 PSI FOOTING
 f_s = 24,000 PSI REINF.
 n = 8.5
DECK SLAB
 LOAD FACTOR DESIGN
 f_c = 3,500 PSI f_y = 60,000 PSI
LOADING
 H.S. 20-44
 FUTURE WEARING SURFACE 25 PSF
DESIGN SPECIFICATION
 1977 AASHTO & 1978 INTERIMS

- GENERAL NOTES**
- SEE SPECIAL PROVISIONS OF BORING DATA.
 - FASTENERS SHALL BE HIGH STRENGTH BOLTS. BOLTS 3/4" OPEN HOLES 13/16" UNLESS OTHERWISE NOTED.
 - CALCULATED WEIGHT OF STRUCTURAL STEEL - M183 = 133,670 LBS M223 = 151,060 LBS. THE BASIC LEAD SILICO CHROMATE PAINT SYSTEM SHALL BE USED FOR ANCHOR FIELD PAINTING OF STRUCTURAL STEEL EXCEPT WHERE OTHERWISE NOTED.
 - ALL STRUCTURAL STEEL SHALL BE AASHTO M183 EXCEPT AS NOTED.
 - THE CONCRETE PARAPET WALL SECTION ABOVE THE MANDATORY CONSTRUCTION JOINT AT THE TOP OF THE SLAB SHALL BE CONSTRUCTED OF CLASS "X" CONCRETE, EXCEPT THE AGGREGATE SHALL CONFORM TO THE REQUIREMENT OF HANDRAIL CONCRETE.
 - THE DECK SLAB'S REINFORCEMENT BARS SHALL CONFORM TO AASHTO M31 GRADE 60 OR AASHTO M53 GRADE 60.
 - BEARING SEAT SURFACES SHALL BE CONSTRUCTED OR ADJUSTED TO THE DESIGNATED ELEVATIONS WITHIN A TOLERANCE OF 1/8" ADJUSTMENTS SHALL BE MADE EITHER BY GRINDING THE SURFACE OR BY SHIMMING THE BEARING. TWO 1/8" ADJUSTING SHIMS, OF THE DIMENSIONS OF THE BEARING PLATE, SHALL BE PROVIDED FOR EACH BEARING IN ADDITION TO ALL OTHER PLATES OR SHIMS.
 - THE MAIN LOAD CARRYING MEMBER COMPONENTS SUBJECT TO TENSILE STRESS SHALL CONFORM TO THE SUPPLEMENTAL REQUIREMENTS FOR NOTCH TOUGHNESS ZONE 2. THESE COMPONENTS ARE THE TENSION FLANGES, WEBS, AND SPLICE PLATE MATERIAL OF THE STEEL GIRDERS.
 - FIELD WELDING OF CONSTRUCTION ACCESSORIES WILL NOT BE PERMITTED TO THE BOTTOM OF THE FLANGE OF BEAMS NOR TO THE TOP FLANGE FOR A DISTANCE EQUAL TO ONE FOURTH THE SPAN LENGTH EACH WAY FROM PIER SUPPORTS. FIELD WELDING IN OTHER AREAS WILL BE PERMITTED ONLY WHEN APPROVED BY THE ENGINEER.
 - ANCHOR BOLTS FOR BEARING PLATE SHALL BE SET BEFORE BOLTING OF DIAPHRAGM OVER SUPPORTS.
 - THE CONTRACTOR SHALL DRIVE 3 CONCRETE TEST PILES IN A PERMANENT LOCATION AT EAST AND WEST ABUTMENTS AND 1 STEEL TEST PILE AT THE PIER EAST ABUT. AS DIRECTED BY THE ENGINEER BEFORE ORDERING THE REMINDER OF THE PILES.
 - THE EMBANKMENT CONFIGURATION SHOWN SHALL BE THE MINIMUM EMBANKMENT THAT MUST BE CONSTRUCTED PRIOR TO THE CONSTRUCTION OF THE ABUTMENTS, CONCRETE PILES AT APPROACH BENTS SHALL BE DRIVEN IN HOLES PRECURED THROUGH THE EMBANKMENT IN ACCORDANCE WITH ARTICLE 513.09 (C) OF THE STANDARD SPECIFICATIONS.
 - REINFORCEMENT BARS SHALL BE LAPPED AS SHOWN ON PLANS.
 - The structural steel bearing plates of the Elastomeric Bearing Assembly shall conform to the requirements of AASHTO M222.



PLAN

BILL OF MATERIALS

ITEM	UNIT	SUPER	SUBSTRUCT	TOTAL
BITUMINOUS COATED AGGREGATE	SQ. YDS.		343	343
SLOPEWALL 6" **	CU. YDS.		290	290
SAND BACKFILL	CU. YDS.	1440		1440
PROTECTIVE COAT	SQ. YDS.	1440		1440
STRUCTURE EXCAVATION	CU. YDS.		499	499
REINFORCEMENT BARS	LBS.	55,700	41,220	96,920
REINFORCEMENT BARS (EPOXY)	LBS.	53,690		53,690
CLASS X CONCRETE	CU. YDS.	459.8	312.7	772.5
STRUCTURAL STEEL	L.S.			
NAME PLATES	EACH			
PREFORMED JOINT SEAL 4"	L.F.	91		91
CONCRETE PILES	L.F.		1858	1858
Elastomeric Brg. Assm. Type I	Each		12	12
TEST PILES (CONCRETE)	EACH		3	3
TEST PILES (STEEL) Hp10x45	EACH		2	2
STEEL PILES HP 10 x 42	L.F.		2821	2821
Stud Shear CONNECTORS	EACH	2880		2880
ALUMINUM RAIL - TYPE L	L.F.	568		568
Floor Drains	Each	1		1

APPROVED FOR STRUCTURAL AGENCY ONLY

DESIGNED	S.M.
CHECKED	A.S.
DRAWN	K.C.
CHECKED	A.S.

GENERAL PLAN AND ELEVATION

C.H. 64 OVER FA 405
 SECTION 72-6HB-2
 PEORIA COUNTY
 STATION 747+10.07
 REV 11-24-82

MODEL: Default FILE NAME: p:\w\l\wme-pw\p\01\Documents\BFW\PROJECTS\2021\PROJECTS\21507 - IDOT D4 PTB 199-25 WO #4 - Mossville Road over IL Route\DOT\Structures\Cad\720148-68669-010-Existing Plans.dgn

BACON | FARMER | WORKMAN
 ENGINEERING & TESTING, INC.
 431 SOUTH GRAND AVE. WEST
 SPRINGFIELD, ILLINOIS 62704
 PHONE - 317.679.0254

USER NAME =	DESIGNED - JGY	REVISED -
PLOT SCALE =	CHECKED - GBR	REVISED -
PLOT DATE =	DRAWN - JGY	REVISED -
	CHECKED - GBR	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

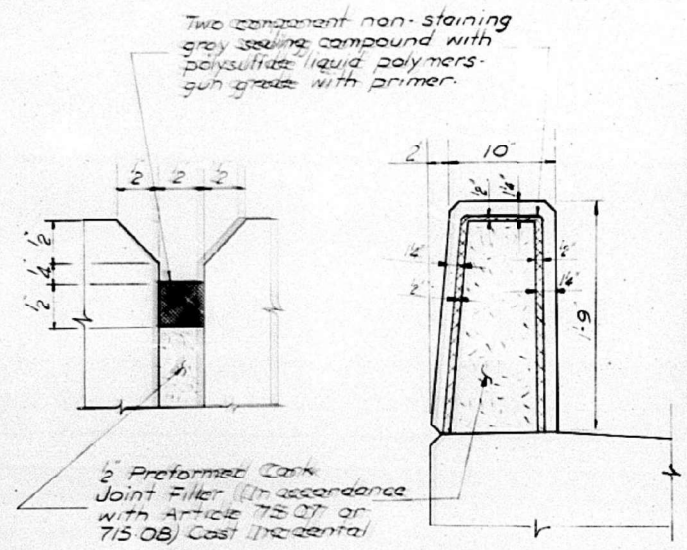
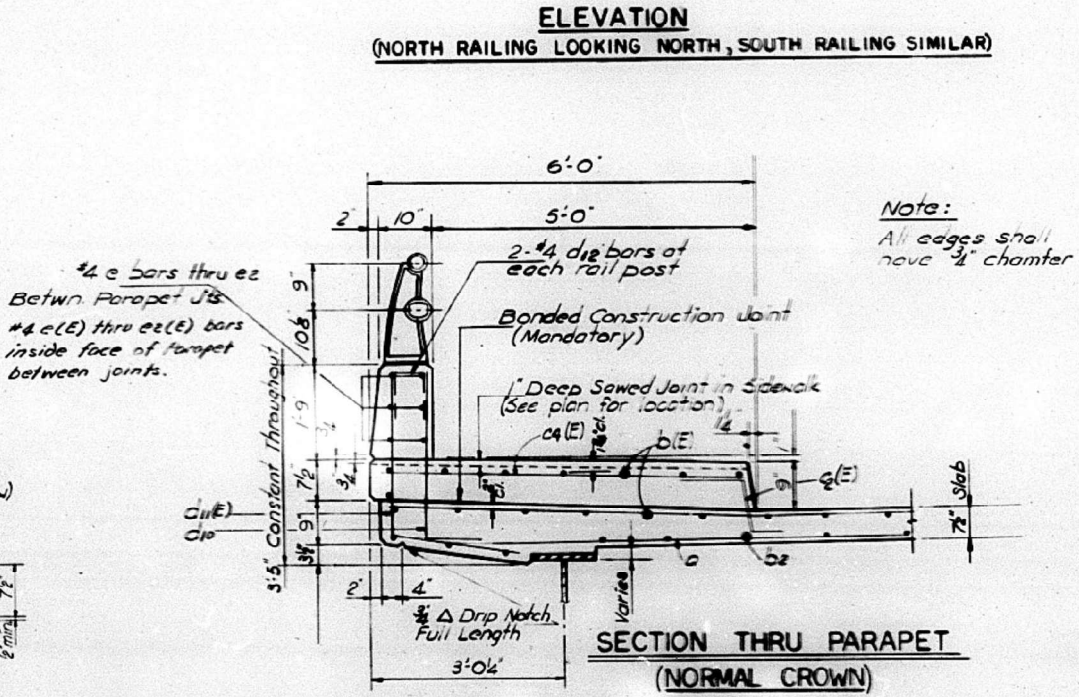
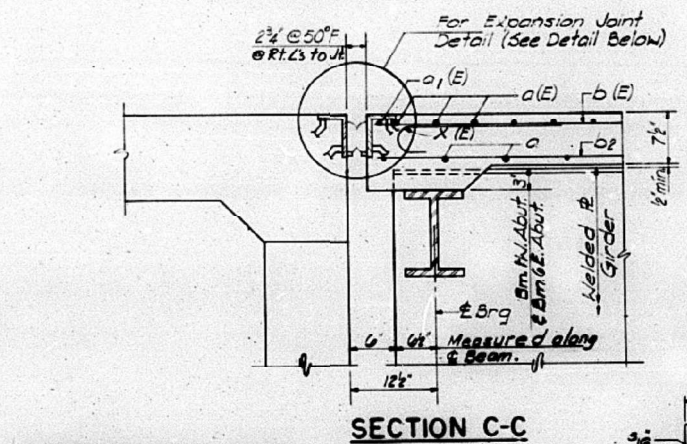
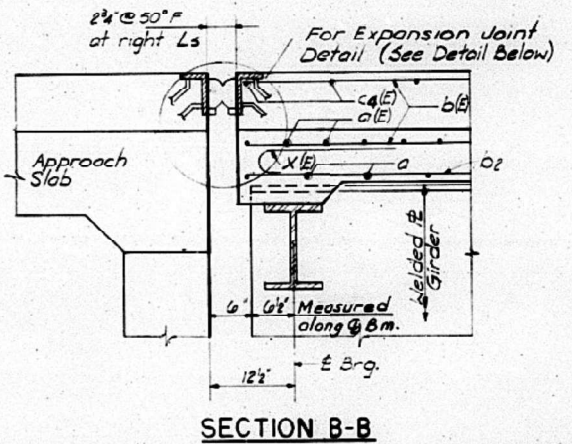
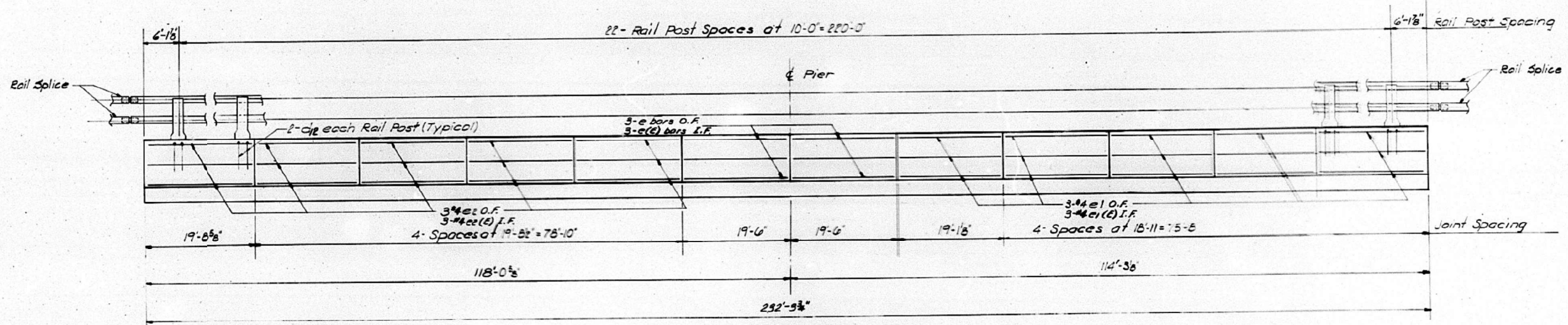
ABBREVIATED EXISTING BRIDGE PLANS - FOR INFORMATION ONLY
 STRUCTURE NO. 072-0148

SHEET 10 OF 19 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	(72-6HB-2)BRR	PEORIA	27	18

CONTRACT NO. 68G69

ILLINOIS FED. AID PROJECT

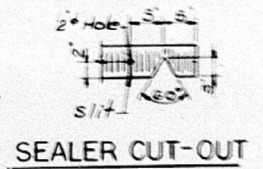
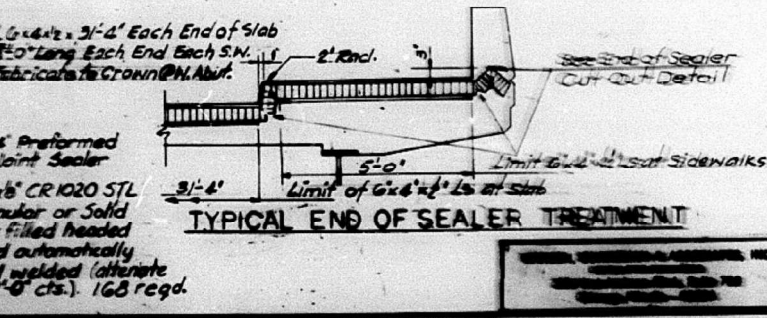
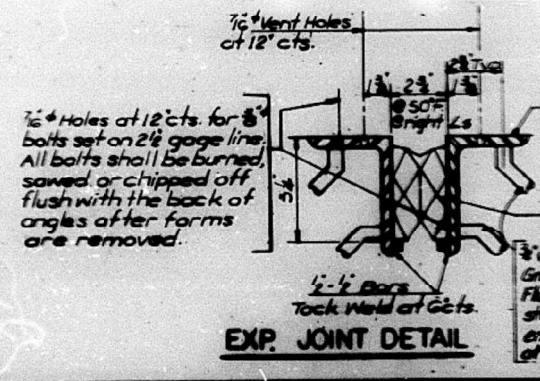
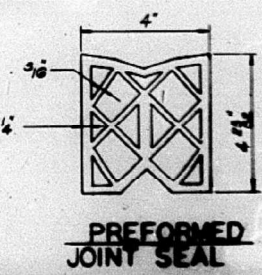


***BILL OF MATERIALS**

Bar	No	Size	Length	Shape
d18	22	#2	2'-02"	□
G	12	#2	9'-3"	□
e1	30	#2	5'-3"	□
e2	30	#2	5'-3"	□
e(E)	12	#2	19'-5"	□
e1(E)	30	#2	18'-8"	□
ee(E)	30	#2	19'-5"	□
Item	Qty	Unit	Total	
Reinforcing Bar	155	lbs	1100	
Class Y Concrete	27.6	cu yd	27.6	
Reinf. Bars (Epoxy Coated)	4.5	lbs	980	

*See North & South Parapets (Span 1 & 2 only)

DESIGNED	RB
CHECKED	SCN
DRAWN	JN
CHECKED	SCN



SUPERSTRUCTURE DETAILS			
C.H. 64	OVER	FA 405	
SECTION		72-6HB-2	
PEORIA		COUNTY	
STATION		747+10.07	

Rev 11-24-82

MODEL: Default
FILE NAME: p:\w\l\wme-pw-bentley.com\bfw\p\PROJECTS\2021\PROJECTS\215107 - IDOT D4 PTB 199-25 WO #4 - Mossville Road over IL Route\DOT Structures\Cad\0720148-68669-012-Existing Plans.dgn

BACON | FARMER | WORKMAN
ENGINEERING & TESTING, INC.
431 SOUTH GRAND AVE. WEST
SPRINGFIELD, ILLINOIS 62764
PHONE - 317.679.0254

USER NAME =	DESIGNED - JGY	REVISED -
PLOT SCALE =	CHECKED - GBR	REVISED -
PLOT DATE =	DRAWN - JGY	REVISED -
	CHECKED - GBR	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ABBREVIATED EXISTING BRIDGE PLANS - FOR INFORMATION ONLY
STRUCTURE NO. 072-0148

SHEET 12 OF 19 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	(72-6HB-2)BR	PEORIA	27	20
CONTRACT NO. 68G69				
ILLINOIS FED. AID PROJECT				

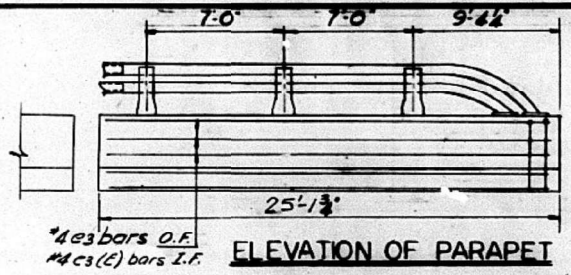
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FA 405	72-6HB-2	PEORIA	79	26
P.O. ROAD DIST. NO. 4		ILLINOIS PROJECT EMP-609-1(E)		

SHEET NO. 8
OF 15 SHEETS

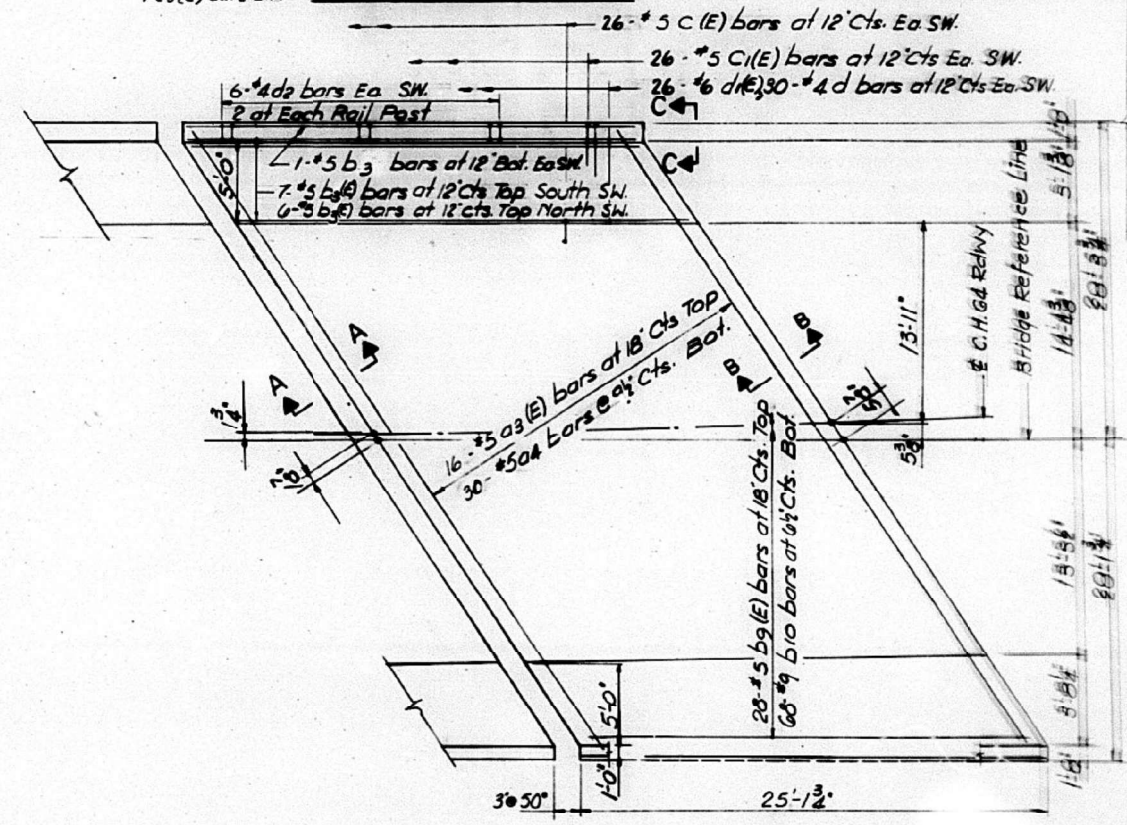
BILL OF MATERIALS

Bar	No.	Size	Length	Shape
a2(E)	50	#6	4'-0"	
a3(E)	32	#5	27'-6"	
a4	60	#5	20'-9"	
b ₁	4	#5	24'-9"	
b ₁₀ (E)	13	#5	24'-9"	
b ₄	6	#5	24'-9"	
b ₉ (E)	23	#5	24'-9"	
b ₁₀	63	#9	27'-2"	
c ₁ (E)	52	#5	2'-8"	
c ₁ (E)	52	#5	5'-7"	
d	52	#4	5'-10"	
d1(E)	52	#6	3'-10"	
d2	12	#4	2'-6"	
e ₃	6	#4	24'-9"	
e ₃ (E)	6	#4	24'-9"	

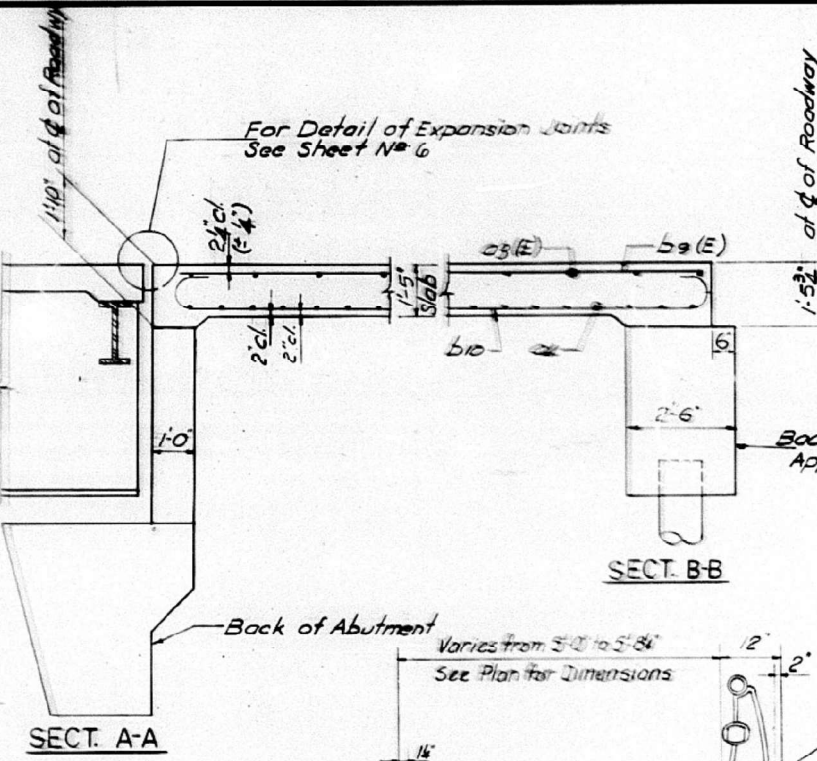
Item	Unit	Total
Reinforcement Bars	Lbs	3280
Epoxy Coated Rebars	Lbs	2920
Class 'X' Concrete	Cu Yds	64.3



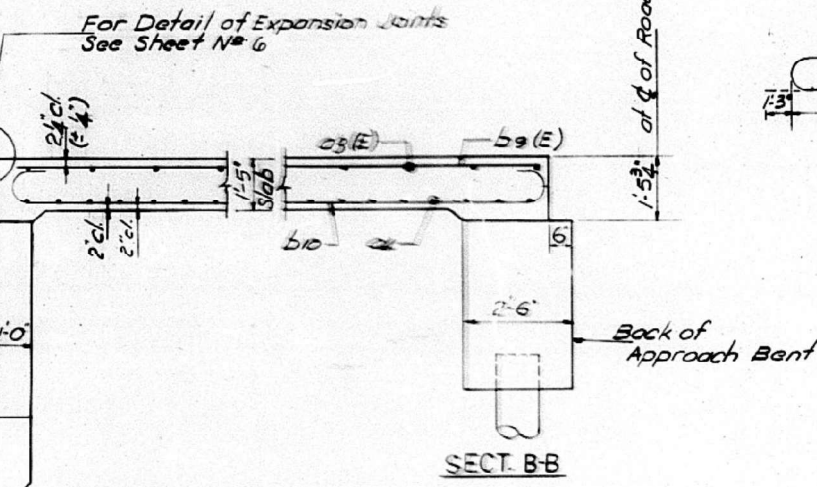
ELEVATION OF PARAPET



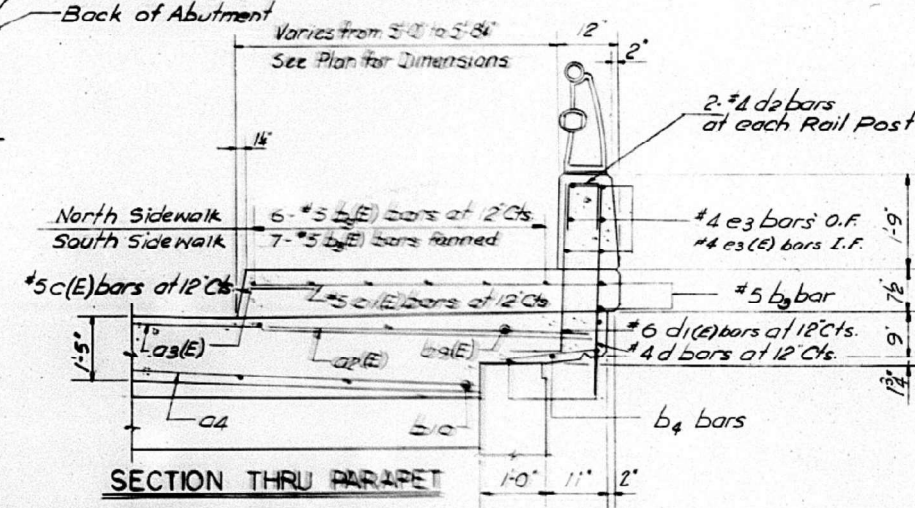
PLAN



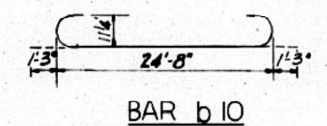
SECTION A-A



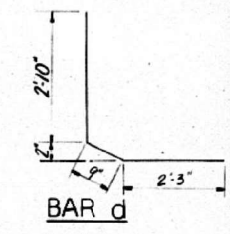
SECTION B-B



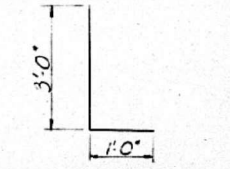
SECTION THRU PARAPET



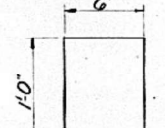
BAR b10



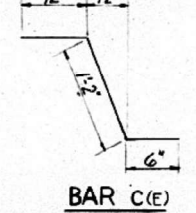
BAR d



BAR d1(E)

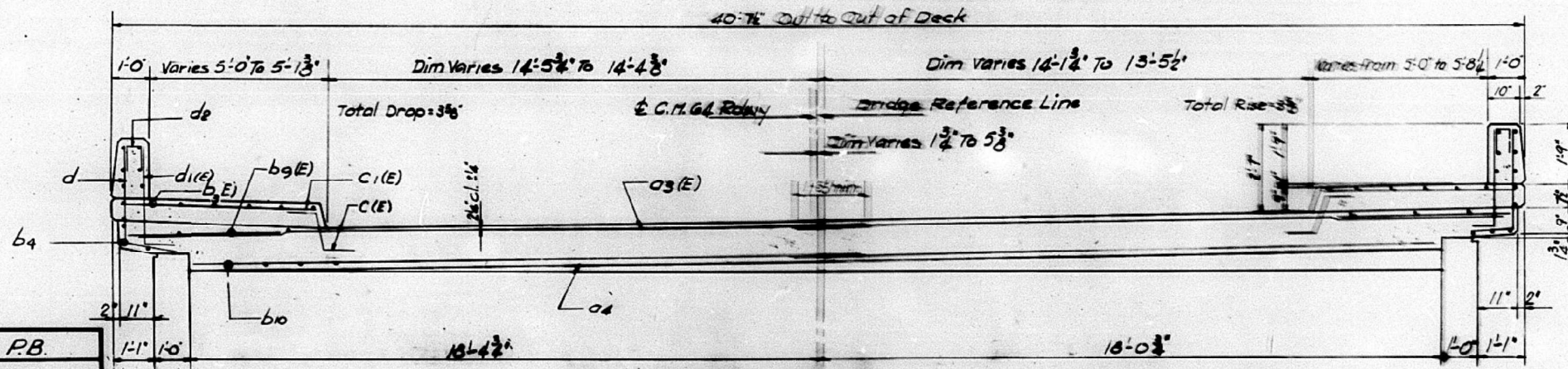


BAR d2



BAR c(E)

Note
Reinforcement Bars Designated (E)
shall be Epoxy Coated. See Special
Provisions.



LONG SECTION

DESIGNED	P.B.
CHECKED	E.D.
DRAWN	K.C.
CHECKED	A.S.

FRAMING PLAN EAST APPROACH SPAN

CH 64 OVER FA 405
SECTION 72-6HB-2
COUNTY PEORIA
STATION 747+10.07

REV 11-24-85

MODEL: Default
FILE NAME: p:\w\wme-pw-bentley.com\bfwme-pw-01\Documents\BFW\PROJECTS\2021\PROJECTS\21507 - IDOT D4 PTB 199+25 WO #4 - Mossville Road over IL Route\DOT Structures\Cad\720148-68G69-014-Existing Plans.dgn
4/17/2022 8:56:19 AM

BACON | FARMER | WORKMAN
ENGINEERING & TESTING, INC.
431 SOUTH GRAND AVE. WEST
SPRINGFIELD, ILLINOIS 62764
PHONE - 317.679.0254

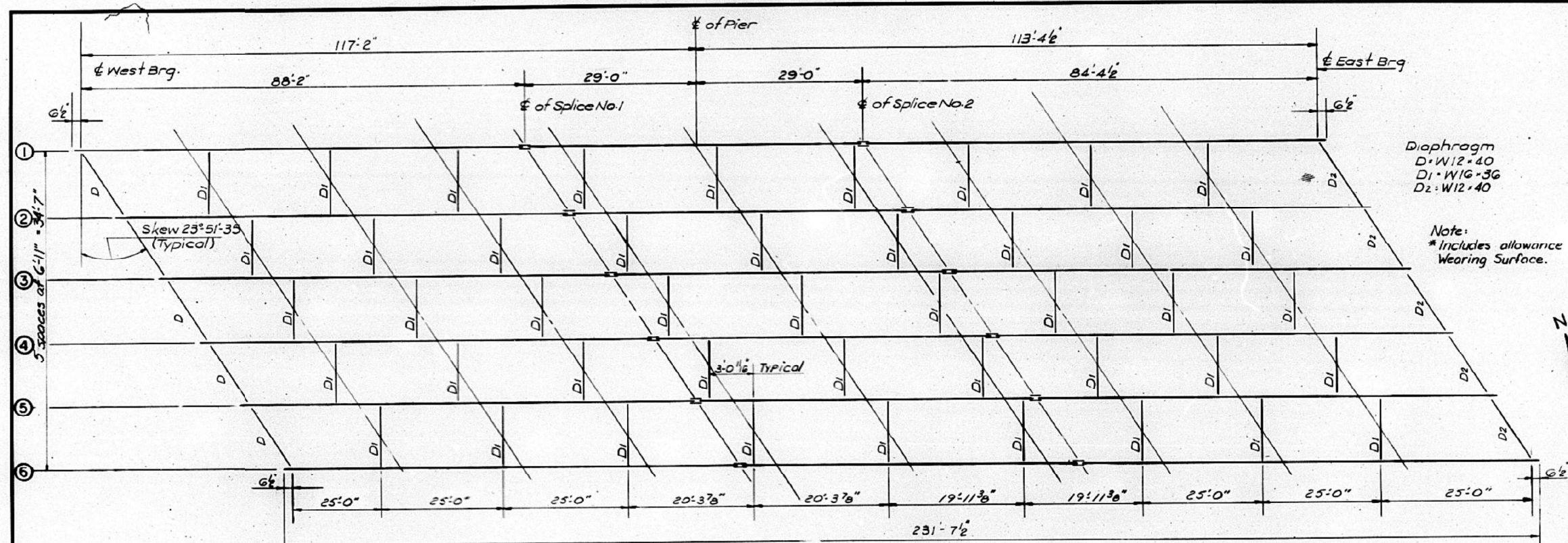
USER NAME	=	DESIGNED	-	JGY	REVISED	-
PLOT SCALE	=	CHECKED	-	GBR	REVISED	-
PLOT DATE	=	DRAWN	-	JGY	REVISED	-
		CHECKED	-	GBR	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ABBREVIATED EXISTING BRIDGE PLANS - FOR INFORMATION ONLY
STRUCTURE NO. 072-0148

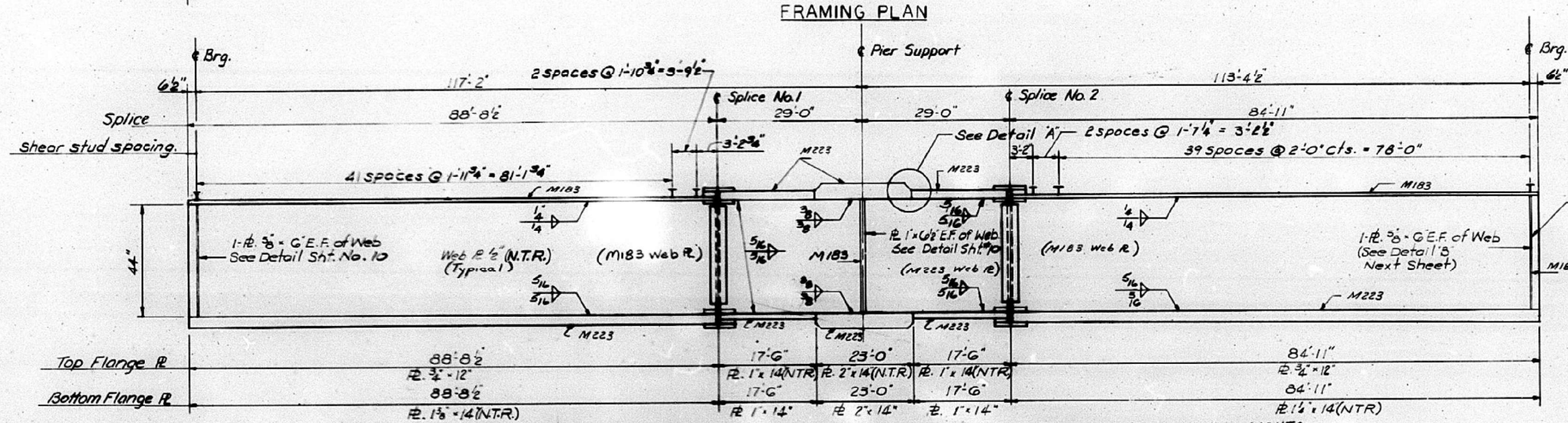
SHEET 14 OF 19 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	(72-6HB-2)BRR	PEORIA	27	22
CONTRACT NO. 68G69				
ILLINOIS FED. AID PROJECT				



	04 Sp.1	Pier	06 Sp.2
Is (in ⁴)	16865	33192	16235
Ic (in ⁴)	45494		43134
Ss (in ³)	902.3	1383	844.0
Sc (in ³)	1246.2		1167.5
Q (ft)	0.848	1.255	0.845
M _D (ft-k)	744.0	1544	659.4
I _{s-non-comp} (ksi)	9.9		9.4
S _D * (ft)	0.41		0.41
M _S (ft-k)	445.3	640	402.2
M _L (ft-k)	973.1	776.4	937.3
M _{Imp} (ft-k)	201.0	161.5	195.7
M _{Total} (ft-k)	1619.4	3121.9	1531.3
f _{s-comp} (ksi)	15.6	8.0	15.7
f _{s>Total} (ksi)	25.5	27.0	25.1
V _r (k)	52.3		52.5

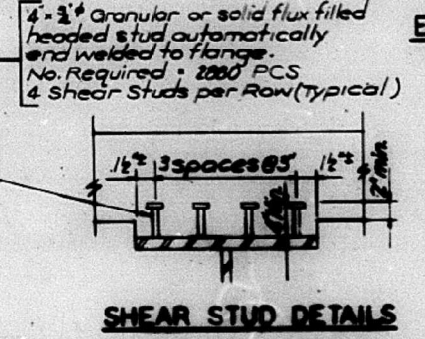
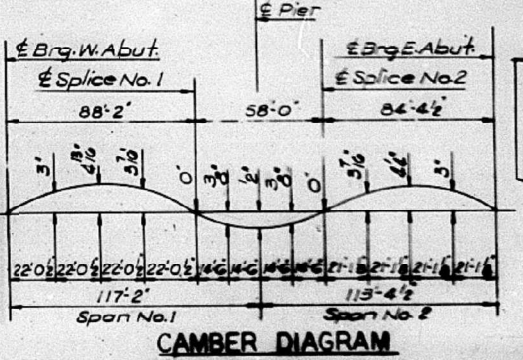
	West Abut	Pier	East Abut
R _D (k)	54.3	102.2	51.4
R _L (k)	45.8	76.5	45.6
R _{Imp} (k)	9.5	15.9	9.6
R _{Total} (k)	109.6	274.6	106.6



BEAM NO.	BEARING W. ABUT.	SPLICE NO. 1	PIER	SPLICE NO. 2	BEARING E. ABUT.
1	512.09	512.82	512.59	512.45	510.85
2	512.25	512.93	512.69	512.55	510.92
3	512.40	513.04	512.79	512.64	510.98
4	512.44	513.07	512.83	512.69	511.05
5	512.38	513.02	512.82	512.71	511.11
6	512.31	512.98	512.81	512.73	511.17

**For Fabrication Only

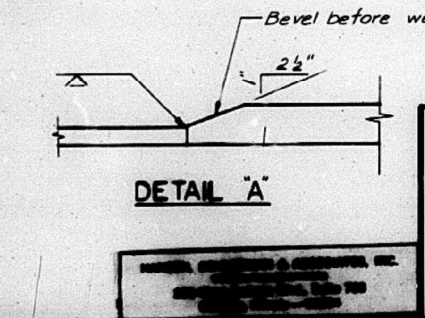
DESIGNED	PBB
CHECKED	A.S.
DRAWN	SBK
CHECKED	A.S.



DETAIL "A"

Note:
* The main load carrying member components subject to tensile stress shall conform to the Supplemental Requirements for Notch Toughness Zone 2. These components are the tension flanges, web and splice material of the steel girders.

*For Splice and Diaphragm details see sheet 10
*N.T.R. Indicates Notch Toughness Requirement



STRUCTURAL STEEL		
C.H.64	OVER	FA 405
SECTION	72-6HB-2	
PEORIA	COUNTY	
STATION	747+10.07	

Rev 11-24-22

MODEL: Default
FILE NAME: p:\w\lme-pw\benley.com\bfm\pwr-01\Documents\BFW\PROJECTS\2021\PROJECTS\21507 - IDOT D4 PTB 199+25 WO #4 - Mossville Road over IL Route\DOT Structures\Cad\720148-68G69-015-Existing Plans.dgn
4/1/2022 8:56:36 AM

BACON | FARMER | WORKMAN
ENGINEERING & TESTING, INC.
431 SOUTH GRAND AVE. WEST
SPRINGFIELD, ILLINOIS 62704
PHONE - 317.679.0254

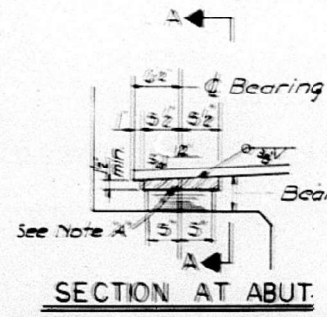
USER NAME =	DESIGNED - JGY	REVISED -
PLOT SCALE =	CHECKED - GBR	REVISED -
PLOT DATE =	DRAWN - JGY	REVISED -
	CHECKED - GBR	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

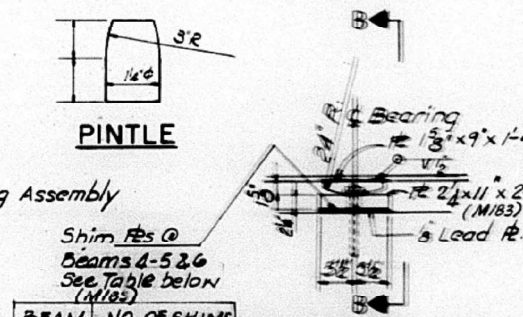
ABBREVIATED EXISTING BRIDGE PLANS - FOR INFORMATION ONLY
STRUCTURE NO. 072-0148

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	(72-6HB-2)BRR	PEORIA	27	23

CONTRACT NO. 68G69
ILLINOIS FED. AID PROJECT

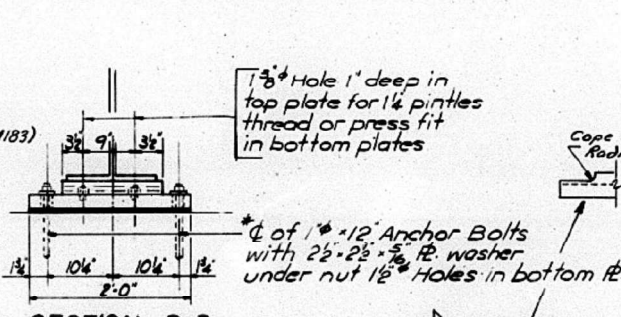


SECTION AT ABUT.
 Note A:
 Taper top plate as shown for East Abutment only.

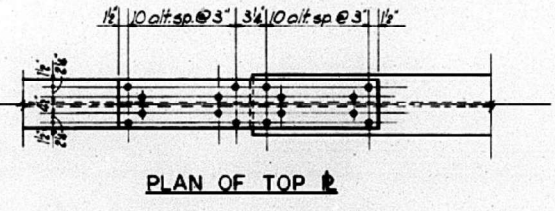


Shim lbs @ Beams 4-5 & 6 See Table below (M183)

BEAM NO.	NO. OF SHIMS
No. 4	1/2" 12"x2'0"
No. 5	3/4" 12"x2'0"
No. 6	1" 12"x2'0"



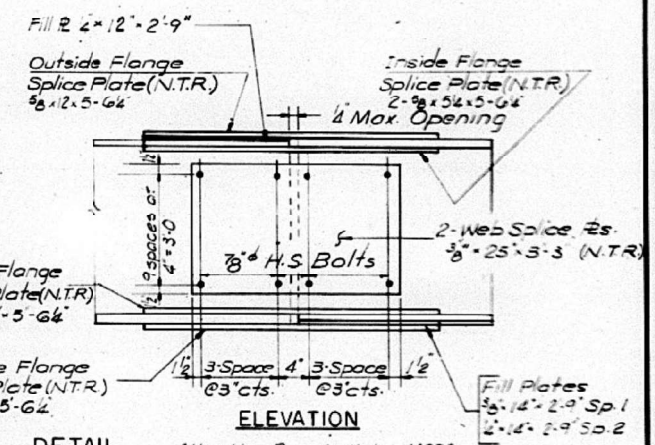
SECTION B-B
 * 1" x 12" Anchor Bolts with 2 1/2" x 2 1/2" x 3/8" R washer under nut 1 1/2" Holes in bottom fl.



PLAN OF TOP

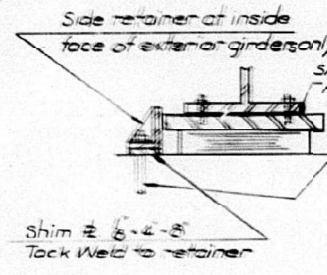


PLAN OF BOTTOM



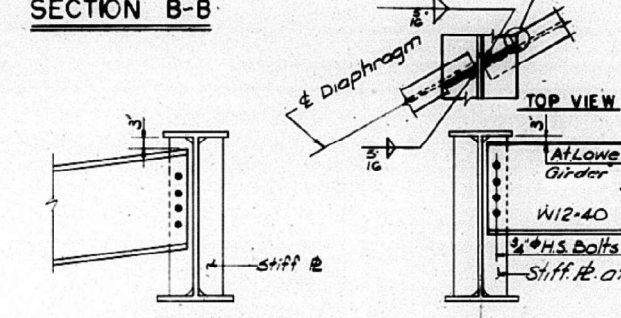
TYPICAL SPLICE DETAIL

All splice R's shall be M225 Grade 50.
 N.T.R. indicates Notch Toughness Requirements

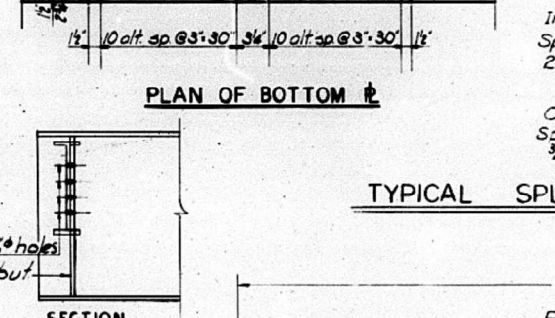


SECTION A-A

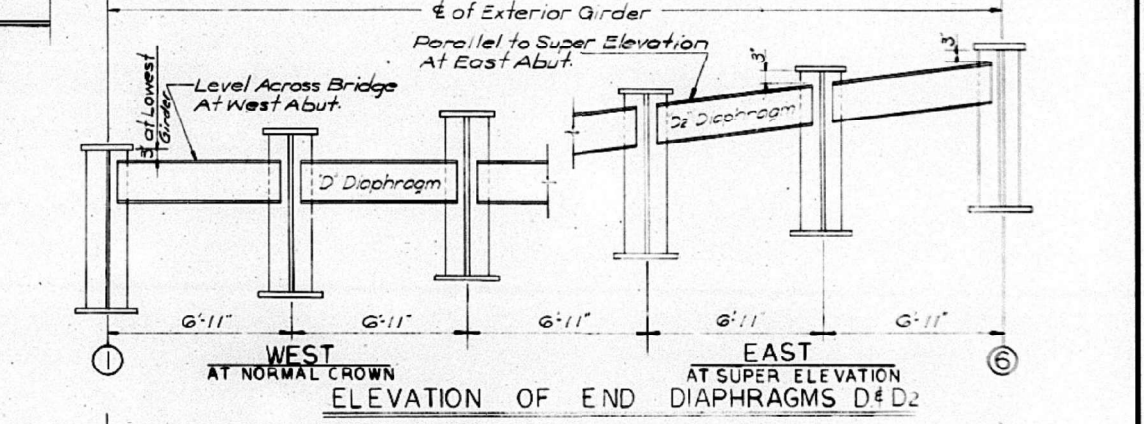
*NOTE:
 After beams have been erected holes of expansion bearing shall be drilled and anchor bolts grouted in place. Anchor bolts at pier bearing may be built into the masonry.



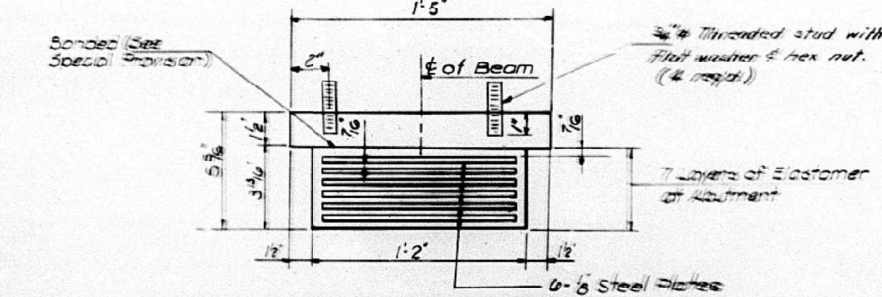
ELEVATION END DIAPHRAGM D2
 Note: See end Diaphragm 'D' for Section & Top View.



ELEVATION END DIAPHRAGM D

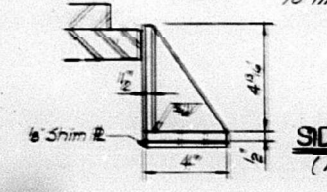


ELEVATION OF END DIAPHRAGMS D & D2

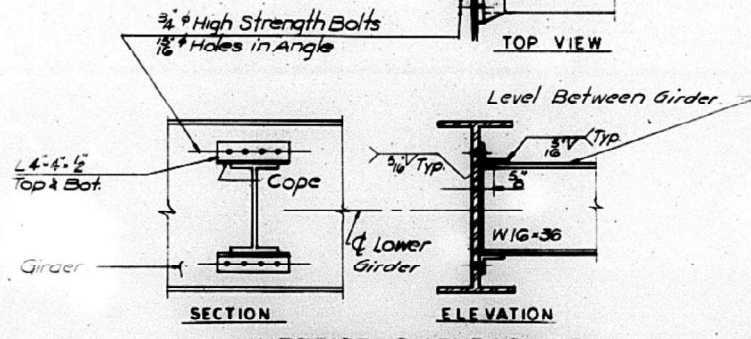


BEARING ASSEMBLY

The structural steel brg. plates of the Elastomeric Brg. Assembly shall conform to the requirements of AASHTO M222.



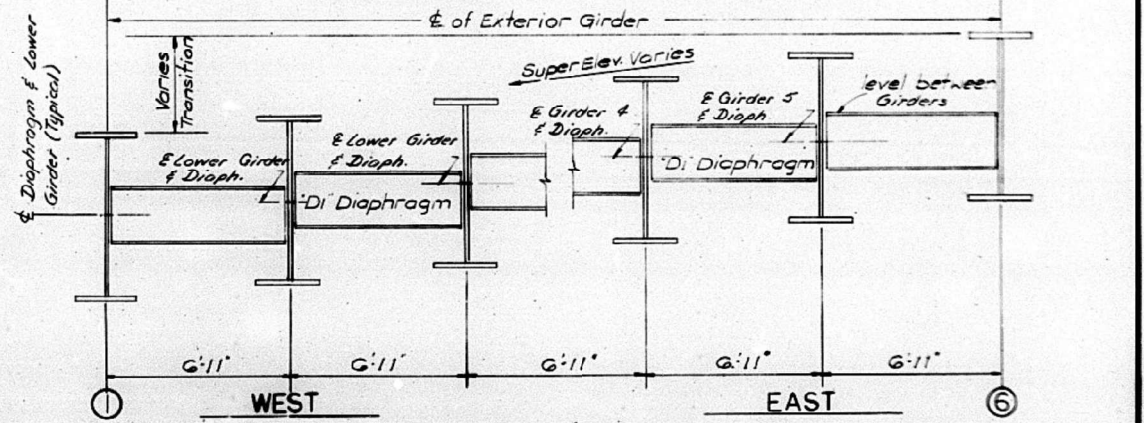
SIDE RETAINER (M183 Steel)



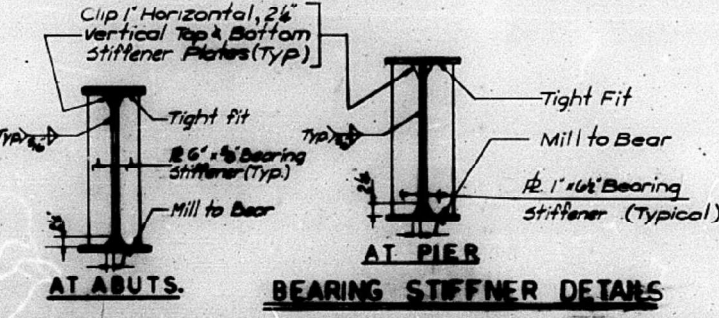
ELEVATION INTERIOR DIAPHRAGM D1

Note:
 Hardened washers shall be required over 1 1/2" holes for all Diaphragms.

All contact surfaces of joints for the diaphragms, cross frames and/or lateral bracings shall be free of paint or lacquer.
 All diaphragm beams and connection L's = M183.



ELEVATION OF INTERIOR DIAPHRAGMS D1



BEARING STIFFENER DETAILS

DESIGNED	A.S.
CHECKED	E.D.
DRAWN	K.C.
CHECKED	A.S.

Note:
BEARING SEAT ADJUSTMENT:
 Bearing seat surfaces shall be constructed or adjusted to the designated elevation within tolerance of 1/8". Adjustment shall be made either by grinding the surface or by shimming the bearing. Two 6" adjusting shims of the dimension of the brg. plate, shall be provided in addition to all other plates or shims.

BEARING DETAILS	
C.H.64 OVER	FA 405
SECTION	72-6HB-2
PEORIA	COUNTY
STATION	747+10.07

MODEL: Default
 FILE NAME: p:\w\1w\me-pw-bentley.com\bf\m\p\p\0\Documents\BFW\PROJECTS\2021\PROJECTS\21507 - IDOT D4 PTB 199+25 WO #4 - Massville Road over IL Route\DOT\Structures\Cad\720148-68669-016-Existing Plans.dgn
 4/17/2022 8:56:52 AM

BACON | FARMER | WORKMAN
 ENGINEERING & TESTING, INC.
 431 SOUTH GRAND AVE. WEST
 SPRINGFIELD, ILLINOIS 62704
 PHONE: 317.679.0254

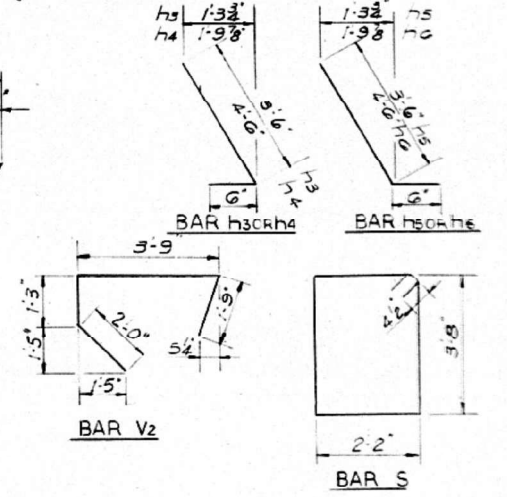
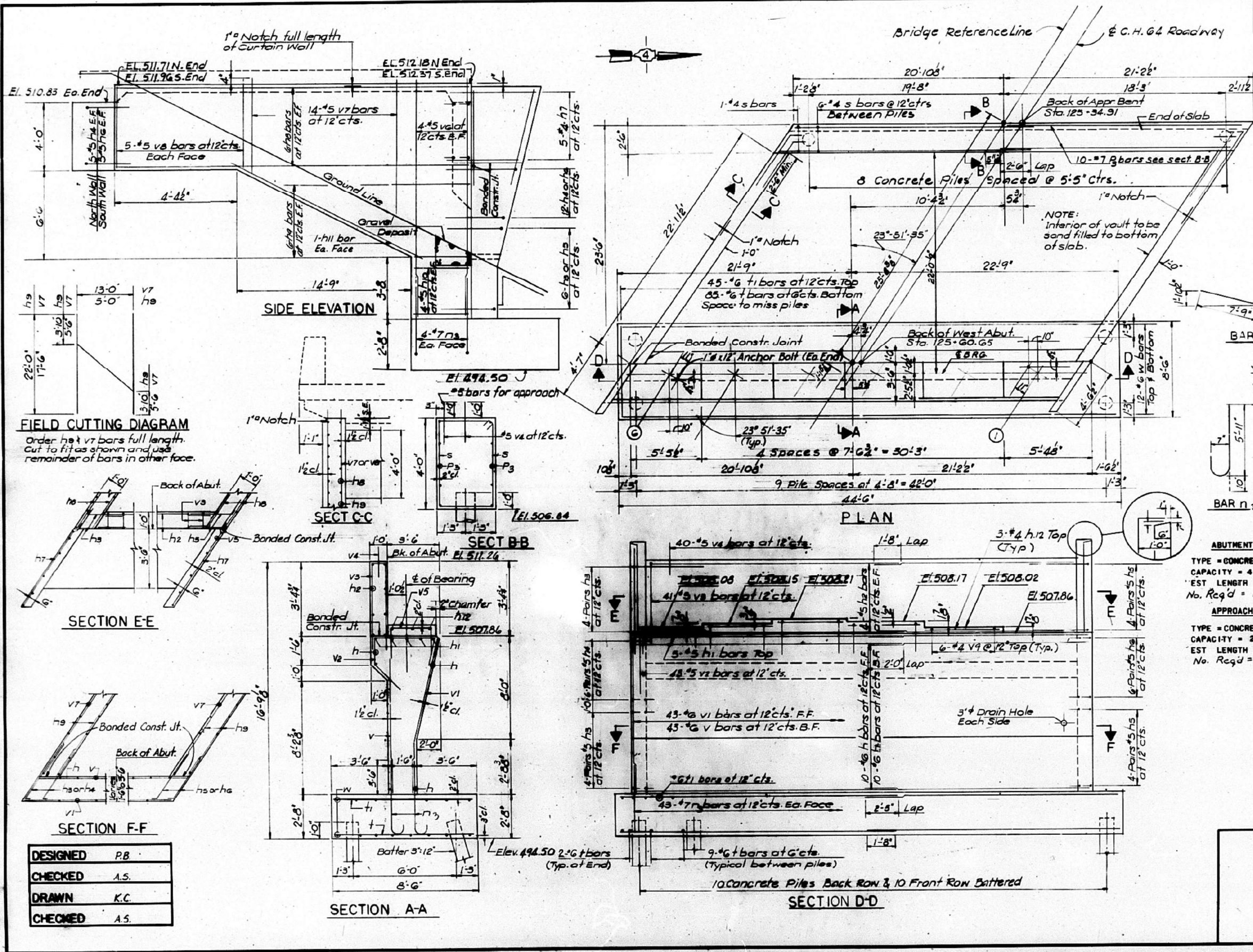
USER NAME =	DESIGNED - JGY	REVISED -
PLOT SCALE =	CHECKED - GBR	REVISED -
PLOT DATE =	DRAWN - JGY	REVISED -
	CHECKED - GBR	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

ABBREVIATED EXISTING BRIDGE PLANS - FOR INFORMATION ONLY
 STRUCTURE NO. 072-0148
 SHEET 16 OF 19 SHEETS

F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	(72-6HB-2)BRR	PEORIA	27	24

CONTRACT NO. 68G69
 ILLINOIS FED. AID PROJECT



BILL OF MATERIALS

Bar No	Size	Length	Shape
h	10	22'-0"	
h1	10	21'-10"	
h2	10	20'-10"	
h3	16	4'-0"	
h4	12	5'-0"	
h5	16	4'-0"	
h6	12	5'-0"	
h7	10	5'-6"	
h8	24	22'-9"	
h9	24	22'-0"	
h10	16	3'-0"	
h11	4	19'-0"	
h12	15	7'-3"	
h3	104	6'-9"	
h4	20	22'-3"	
h5	43	12'-5"	
f	85	8'-2"	
f1	45	8'-2"	
v	43	9'-3"	
v1	43	10'-3"	
v2	43	8'-9"	
v3	41	10'-1"	
v4	120	2'-6"	
v5	30	5'-0"	
v6	16	15'-6"	
v7	48	17'-6"	
v8	28	5'-4"	
n	48	23'-8"	
ITEM	UNIT	TOTAL	
Reinforcement Bar	Lbs	13230	
Class X Concrete	Cu Yds	155	
Conc Piles	Ln Ft	1340	
Test Pile (Concrete)	Each	2	

ABUTMENT PILE DATA
 TYPE = CONCRETE
 CAPACITY = 45 TONS
 EST LENGTH = 51 FEET
 No. Req'd = 19 + 1 Test Pile

APPROACH BENT PILE DATA
 TYPE = CONCRETE
 CAPACITY = 26 TONS
 EST LENGTH = 53 FEET
 No. Req'd = 7 + 1 Test Pile

WEST VAULTED ABUTMENT

C.H. 64 OVER FA 405
 SECTION 72-6HB-2
 PEORIA COUNTY
 STATION 747+10.07

REV 11-24-82

FIELD CUTTING DIAGRAM
 Order h#4 v7 bars full length. Cut to fit as shown and use remainder of bars in other face.

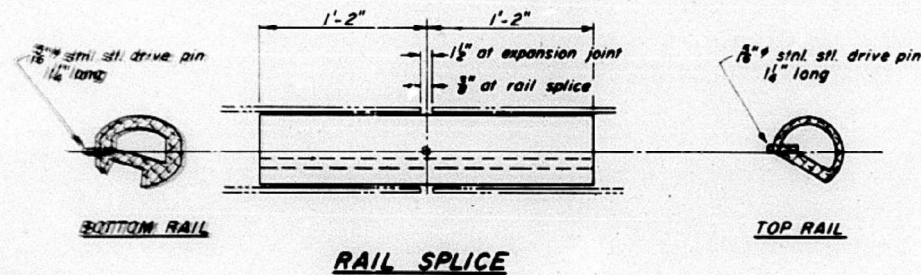
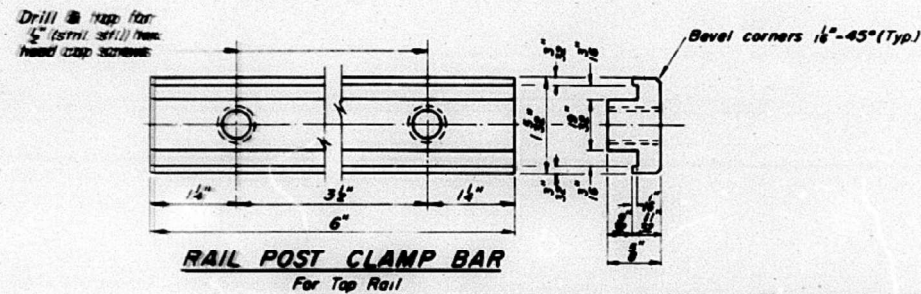
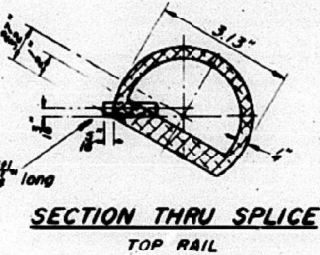
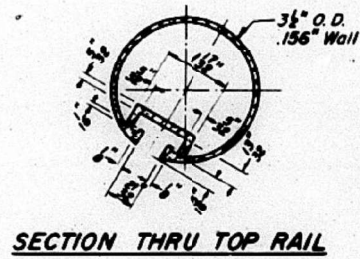
DESIGNED	P.B.
CHECKED	A.S.
DRAWN	K.C.
CHECKED	A.S.

MODEL: Default
 FILE NAME: p:\w\l\wme-pw\p\01\Documents\BFW\PROJECTS\2021\PROJECTS\21507 - IDOT D4 PTB 199-25 WO #4 - Mossville Road over IL Route\DOT Structures\Cad\720148-68G69-017-Existing Plans.dgn
 431 SOUTH GRAND AVE. WEST SPRINGFIELD, ILLINOIS 62274 PHONE - 317.679.0254

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
EMAS	72-6HB-2	PEORIA	79	32
FED. ROAD DIST. NO. 4	ILLINOIS	PROJECT EMP. 485-1(8)		

SHEET NO. 14
OF 15 SHEETS



NOTES:

All Posts shall be normal to parapet.

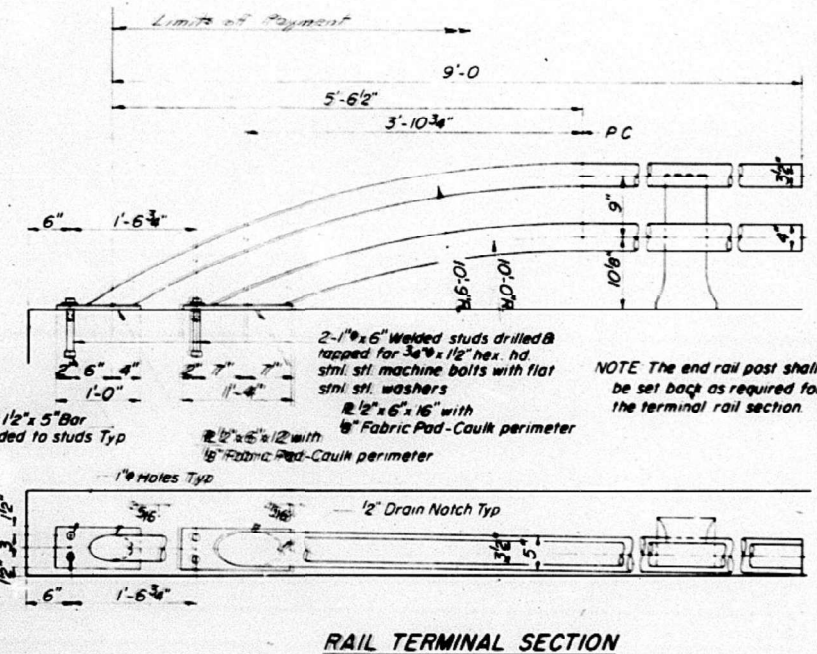
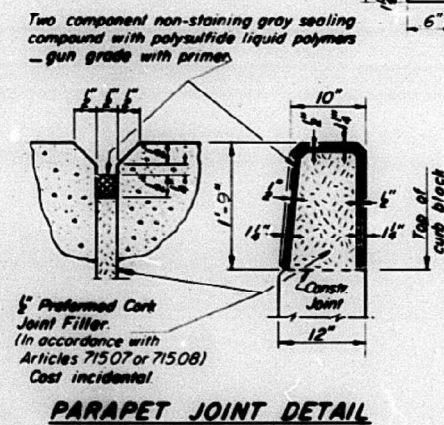
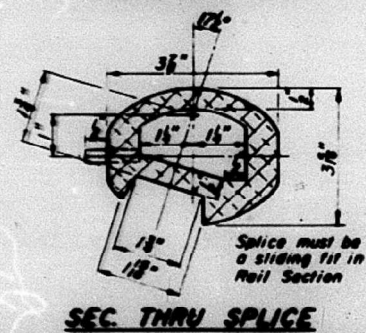
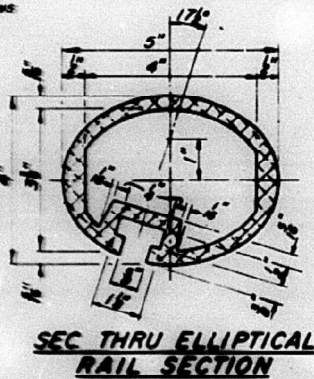
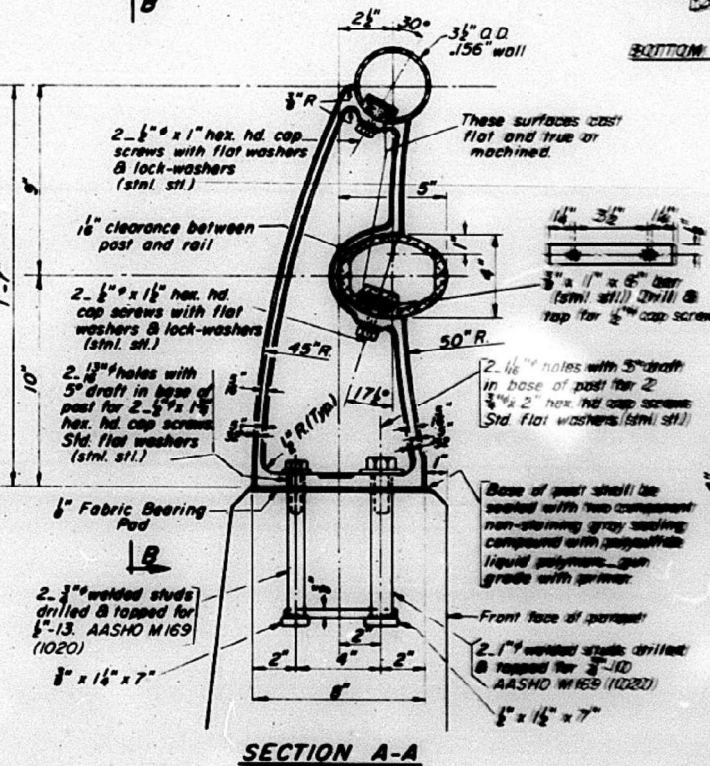
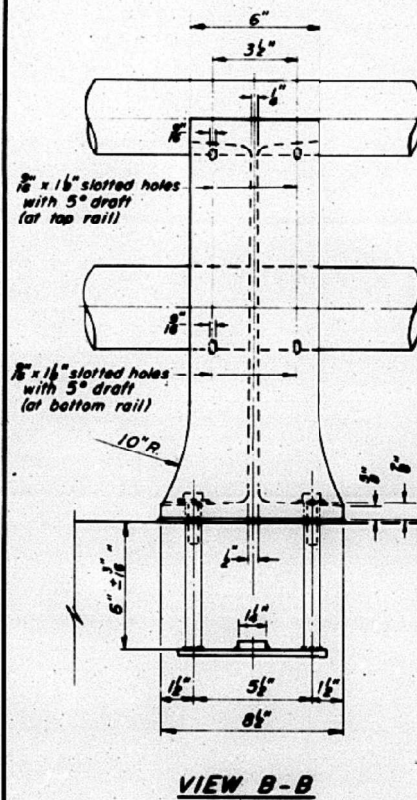
All Aluminum Alloy Extruded Rail shall be supplied in modular lengths of 30 feet, except at the end of bridge or over open joints in bridge deck where the rail shall be attached to a minimum of 2 posts. If the rail is on a horizontal curve of 2300 foot radius or less, the modular lengths may be reduced but shall be attached to a minimum of 2 posts.

All joints in rail shall be spliced per detail.

Provide 1-3/8" and 2-1/8" Aluminum Shims for 25% of the Posts. Rail elements shall be parallel to Grade - high spots shall be ground and low spots shimmed.

Railing shall be in accordance with Section 508 of the Standard Specifications, except as noted, and shall be paid for at the contract unit price per lineal foot for ALUMINUM RAILING, TYPE L.

Aluminum alloy rail shall conform to ASTM B 221 alloy 6061-T6 or 6351-T5 with min. yield 35 ksi, min. tensile 38 ksi, and elongation of 10% in 2 inches.



BILL of MATERIALS

Item	Unit	Quantity
ALUMINUM RAILING, TYPE L	Lin F	566

ALUMINUM RAILING-TYPE L

C.H.64	OVER	FA 405
SECTION		72-6HB-2
PEORIA		COUNTY
STATION		747+10.07

DESIGNED	K.C.
CHECKED	A.S.
DRAWN	K.C.
CHECKED	S.N.

BACON | FARMER | WORKMAN
ENGINEERING & TESTING, INC.
431 SOUTH GRAND AVE. WEST
SPRINGFIELD, ILLINOIS 62704
PHONE - 317.679.0254

USER NAME =	DESIGNED - JGY	REVISED -
PLOT SCALE =	CHECKED - GBR	REVISED -
PLOT DATE =	DRAWN - JGY	REVISED -
	CHECKED - GBR	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ABBREVIATED EXISTING BRIDGE PLANS - FOR INFORMATION ONLY
STRUCTURE NO. 072-0148

SHEET 19 OF 19 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	(72-6HB-2)BRR	PEORIA	27	27
CONTRACT NO. 68G69				
ILLINOIS FED. AID PROJECT				

MODEL: Default
FILE NAME: p:\w\wme-pw\benley.com\bfwme-pw-0\Documents\BFW\PROJECTS\2021\PROJECTS\21507 - IDOT D4 PTB 199-25 WO #4 - Mossville Road over IL Route\DOT\Structures\Cad\720148-68G69-019-Existing Plans.dgn
4/17/2022 8:57:43 AM