

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	(74-68)BR	PIATT	105	1
		ILLINOIS	CONTRACT NO. 70D61	

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**PROPOSED  
HIGHWAY PLANS**

F.A.I. 72 (I-72)  
SECTION (74-68)BR  
PROJECT NHPP-PI8K(307)  
UNDER BRIDGE ST 0.5 MI W OF MONTICELLO  
**3R BRIDGE REPLACEMENT AND  
BRIDGE APPROACH ROADWAY  
PIATT COUNTY**

C-95-021-19

**INDEX OF SHEETS**

- 1 COVER SHEET
- 2 STANDARDS LIST & GENERAL NOTES
- 3-10 SUMMARY OF QUANTITIES
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- 19 ALIGNMENT, BENCHMARKS, AND CONTROL POINTS
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- 40 PAVEMENT MARKING PLAN
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- 72-82 STAGE 1 CROSS SECTIONS
- 83-93 STAGE 2 CROSS SECTIONS
- 94-105 STAGE 3 CROSS SECTIONS

FOR LIST OF HIGHWAY STANDARDS, SEE SHEET NO. 2

**TRAFFIC DATA**

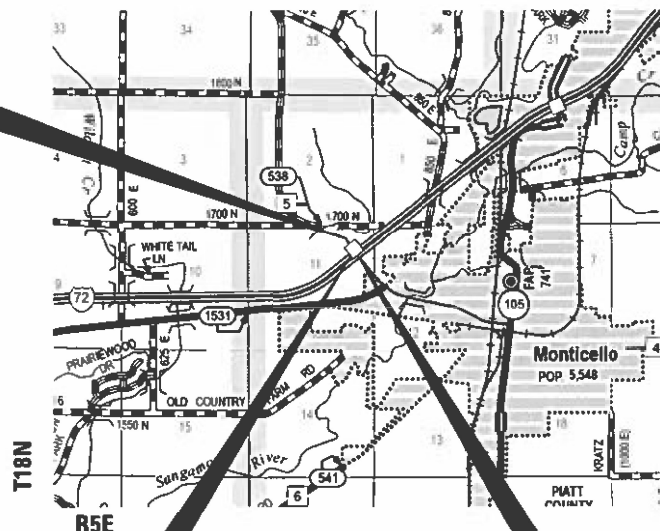
LEG	FAI 72	BRIDGE ST.
2021 ADT	= 11,700	2,300
P.U. & P.C.	= 73.3%	91.8%
S.U.	= 4.1%	4.3%
M.U.	= 22.6%	3.9%

**FUNCTIONAL CLASSIFICATION**

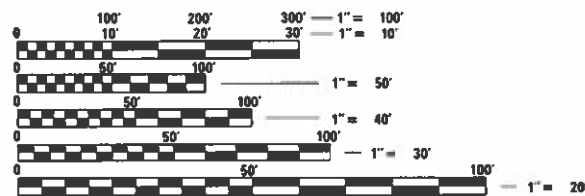
FAI 72:	INTERSTATE
BRIDGE ST:	OTHER PRINCIPAL ARTERIAL



**END IMPROVEMENT  
STA. 56 + 50.00**



LOCATION MAP  
NOT TO SCALE



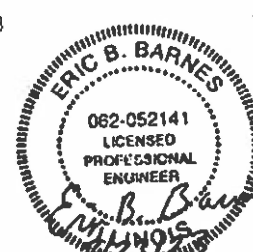
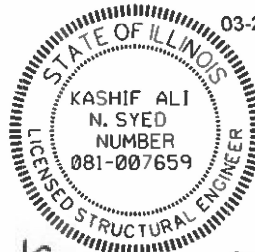
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

**BRIDGE REPLACEMENT  
STA 50 + 00.00  
EXIST SN 074-0065  
PROP SN 074-0089**

GROSS LENGTH = 1310.00 FT. = 0.248 MILE  
NET LENGTH = 1310.00 FT. = 0.248 MILE

**BEGIN IMPROVEMENT  
STA. 43 + 40.00**



*Gilbert R. Goodman* 3-23-2023  
EXPIRATION DATE : 11/30/23  
SHEETS: 1-2, 11-15, 21-36, 38-40  
GREENE & BRADFORD, INC.

*Kashif Ali N. Syed*  
EXPIRATION DATE : 11/30/24  
SHEETS: 41-71  
GREENE & BRADFORD, INC.

*Eric B. Barnes*  
EXPIRATION DATE : 11/30/23  
SHEETS: 3-10, 16-19, 72-105  
KLINGNER & ASSOCIATES

*Eric J. Grzeskowiak*  
EXPIRATION DATE : 11/30/23  
SHEETS: 20, 37  
BOWMAN CONSULTING GROUP LTD.



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED 3/23 2023  
*Kenneth Harnett, Esq.*  
REGIONAL ENGINEER

May 12, 2023 *Eric A. Etkin*  
ENGINEER OF DESIGN AND ENVIRONMENT

May 12, 2023 *Stephen M. ...*  
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

**PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS**

PROJECT ENGINEER: JASON STULTS, P.E. (217) 465-4181  
PROJECT MANAGER: JASON GOBLE (217) 465-4181

CONTRACT NO. 70D61



CONSTRUCTION CODE  
 F.A.I. 72 (I-72)  
 INTERSTATE  
 STA. 43+40.00 TO STA. 56+50.00  
 90% FEDERAL / 10% STATE

SPECIALTY ITEM	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	PIATT COUNTY STRUCTURE 0010 RURAL
	20200100	EARTH EXCAVATION	CU YD	10	10
	20400800	FURNISHED EXCAVATION	CU YD	100	100
	25000210	SEEDING, CLASS 2A	ACRE	0.50	0.50
	25000400	NITROGEN FERTILIZER NUTRIENT	POUND	45	45
	25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	45	45
	25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	45	45
	25000700	AGRICULTURAL GROUND LIMESTONE	TON	1	1
	25100115	MULCH, METHOD 2	ACRE	0.50	0.50
	25100630	EROSION CONTROL BLANKET	SQ YD	1480	1480
	25200200	SUPPLEMENTAL WATERING	UNIT	51.6	51.6
	28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	100	100
	28000400	PERIMETER EROSION BARRIER	FOOT	2383	2383
	28000510	INLET FILTERS	EACH	4	4
	31101000	SUBBASE GRANULAR MATERIAL, TYPE B	TON	646	646

\* SPECIALTY ITEM

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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**BRIDGE ST. OVER I-72  
 SUMMARY OF QUANTITIES**

SCALE: NONE    SHEET 1 OF 8 SHEETS    STA.    TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	(74-68)BR	PIATT	105	3
CONTRACT NO. 70D61			ILLINOIS FED. AID PROJECT	

CONSTRUCTION CODE  
 F.A.I. 72 (I-72)  
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SPECIALTY ITEM	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	PIATT COUNTY STRUCTURE 0010 RURAL
	35501328	HOT-MIX ASPHALT BASE COURSE, 11"	SQ YD	1019	1019
	40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	230	230
	40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	2050	2050
	40600370	LONGITUDINAL JOINT SEALANT	FOOT	5900	5900
	40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	307	307
	40600990	TEMPORARY RAMP	SQ YD	286	286
	40603219	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-9.5FG, N90	TON	720	720
	40604164	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N90	TON	487	487
	42000080	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB	SQ YD	220	220
	44000100	PAVEMENT REMOVAL	SQ YD	1121	1121
	44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SQ YD	6286	6286
	44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	1922	1922
	44003100	MEDIAN REMOVAL	SQ FT	6871	6871
	44004250	PAVED SHOULDER REMOVAL	SQ YD	155	155
	44201383	CLASS C PATCHES, TYPE IV, 12 INCH	SQ YD	30	30

\* SPECIALTY ITEM

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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

BRIDGE ST. OVER I-72  
 SUMMARY OF QUANTITIES

SCALE: NONE SHEET 2 OF 8 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	(74-68)BR	PIATT	105	4
			CONTRACT NO. 70D61	
			ILLINOIS FED. AID PROJECT	

CONSTRUCTION CODE  
 F.A.I. 72 (I-72)  
 INTERSTATE  
 STA. 43+40.00 TO STA. 56+50.00  
 90% FEDERAL / 10% STATE

SPECIALTY ITEM	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	PIATT COUNTY STRUCTURE 0010 RURAL
	48101200	AGGREGATE SHOULDERS, TYPE B	TON	118	118
	48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	29	29
	48203100	HOT-MIX ASPHALT SHOULDERS	TON	522	522
	50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1	1
	50104400	CONCRETE HEADWALL REMOVAL	EACH	4	4
	50105220	PIPE CULVERT REMOVAL	FOOT	514	514
	50157300	PROTECTIVE SHIELD	SQ YD	709	709
	50200100	STRUCTURE EXCAVATION	CU YD	586	586
	50300225	CONCRETE STRUCTURES	CU YD	278.3	278.3
	50300255	CONCRETE SUPERSTRUCTURE	CU YD	671.5	671.5
	50300260	BRIDGE DECK GROOVING	SQ YD	1475	1475
	50300300	PROTECTIVE COAT	SQ YD	2466	2466
	50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	191.2	191.2
	50500105	FURNISHING AND ERECTING STRUCTURAL STEEL	L SUM	1	1

\* SPECIALTY ITEM

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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

BRIDGE ST. OVER I-72  
 SUMMARY OF QUANTITIES

SCALE: NONE SHEET 3 OF 8 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	(74-68)BR	PIATT	105	5
CONTRACT NO. 70D61			ILLINOIS FED. AID PROJECT	

CONSTRUCTION CODE  
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SPECIALTY ITEM	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	PIATT COUNTY STRUCTURE 0010 RURAL
	50500505	STUD SHEAR CONNECTORS	EACH	5697	5697
	50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	278120	278120
	50800515	BAR SPLICERS	EACH	1234	1234
	50800530	MECHANICAL SPLICERS	EACH	168	168
	51100100	SLOPE WALL 4 INCH	SQ YD	685	685
	51200963	FURNISHING METAL SHELL PILES 16" X 0.375"	FOOT	2049	2049
	51202305	DRIVING PILES	FOOT	2049	2049
	51203200	TEST PILE METAL SHELLS	EACH	3	3
	51204650	PILE SHOES	EACH	54	54
	51500100	NAME PLATES	EACH	1	1
	52100520	ANCHOR BOLTS, 1"	EACH	36	36
	52100540	ANCHOR BOLTS, 1 1/2"	EACH	18	18
	52200010	TEMPORARY SHEET PILING	SQ FT	184	184
	54262712	METAL FLARED END SECTIONS 12"	EACH	4	4
	58600101	GRANULAR BACKFILL FOR STRUCTURES	CU YD	284	284

\* SPECIALTY ITEM

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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

BRIDGE ST. OVER I-72  
 SUMMARY OF QUANTITIES

SCALE: NONE SHEET 4 OF 8 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	(74-68)BR	PIATT	105	6
CONTRACT NO. 70D61			ILLINOIS FED. AID PROJECT	

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SPECIALTY ITEM	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	PIATT COUNTY STRUCTURE 0010 RURAL
	59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	138	138
	60100060	CONCRETE HEADWALLS FOR PIPE DRAINS	EACH	4	4
	60100945	PIPE DRAINS 12"	FOOT	521	521
	60146304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	186	186
	60500060	REMOVING INLETS	EACH	4	4
	60600605	CONCRETE CURB, TYPE B	FOOT	65	65
	60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	687	687
	60618300	CONCRETE MEDIAN SURFACE, 4 INCH	SQ FT	3415	3415
	61000050	CONCRETE THRUST BLOCKS	EACH	4	4
	61000225	TYPE F INLET BOX, STANDARD 610001	EACH	4	4
*	63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	188	188
*	63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	3	3
*	63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	3	3
	63200310	GUARDRAIL REMOVAL	FOOT	320	320

\* SPECIALTY ITEM

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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

BRIDGE ST. OVER I-72  
 SUMMARY OF QUANTITIES

SCALE: NONE SHEET 5 OF 8 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	(74-68)BR	PIATT	105	7
CONTRACT NO. 70D61			ILLINOIS FED. AID PROJECT	

REV. 5/17/23 REV. 4/28/23

CONSTRUCTION CODE  
 F.A.I. 72 (I-72)  
 INTERSTATE  
 STA. 43+40.00 TO STA. 56+50.00  
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SPECIALTY ITEM	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	PIATT COUNTY STRUCTURE 0010 RURAL
	64300450	IMPACT ATTENUATORS (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2	2
	64301090	ATTENUATOR BASE	SQ YD	55	55
	67000500	ENGINEER'S FIELD OFFICE, TYPE B	CAL MO	9	9
	67100100	MOBILIZATION	L SUM	1	1
	70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	270	270
	70107025	CHANGEABLE MESSAGE SIGN	CAL DA	380	380
	70200100	NIGHTTIME WORK ZONE LIGHTING	L SUM	1	1
	70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	10176	10176
	70300211	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS - PAINT	SQ FT	250	250
	70300221	TEMPORARY PAVEMENT MARKING - LINE 4"- PAINT	FOOT	11356	11356
	70307120	TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE IV TAPE	FOOT	18420	18420
	70400100	TEMPORARY CONCRETE BARRIER	FOOT	3175	3175
	70400125	PINNING TEMPORARY CONCRETE BARRIER	EACH	192	192
	70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	900	900

\* SPECIALTY ITEM

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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

BRIDGE ST. OVER I-72  
 SUMMARY OF QUANTITIES

SCALE: NONE SHEET 6 OF 8 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	(74-68)BR	PIATT	105	8
CONTRACT NO. 70D61			ILLINOIS FED. AID PROJECT	



CONSTRUCTION CODE  
 F.A.I. 72 (I-72)  
 INTERSTATE  
 STA. 43+40.00 TO STA. 56+50.00  
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SPECIALTY ITEM	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	PIATT COUNTY STRUCTURE 0010 RURAL
	70500100	TEMPORARY STEEL PLATE BEAM GUARDRAIL, TYPE A	FOOT	132	132
	70500655	TEMPORARY TRAFFIC BARRIER TERMINAL, TYPE 5	EACH	2	2
	70600260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	6	6
	70600332	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	4	4
*	72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	5	5
*	78006100	PREFORMED THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	125	125
*	78006110	PREFORMED THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	5678	5678
*	78011000	GROOVING FOR RECESSED PAVEMENT MARKING, LETTERS AND SYMBOLS	SQ FT	125	125
*	78011025	GROOVING FOR RECESSED PAVEMENT MARKING 5"	FOOT	5678	5678
*	78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	14	14
*	78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	16	16
*	78200011	BARRIER WALL REFLECTORS, TYPE C	EACH	8	8
	78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	14	14
	78300201	PAVEMENT MARKING REMOVAL - GRINDING	SQ FT	1818	1818

\* SPECIALTY ITEM

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BRIDGE ST. OVER I-72  
 SUMMARY OF QUANTITIES

SCALE: NONE SHEET 7 OF 8 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	(74-68)BR	PIATT	105	9
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SPECIALTY ITEM	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	PIATT COUNTY STRUCTURE 0010 RURAL
	X6061302	CONCRETE MEDIAN, TYPE SB-6.12 (DOWELLED)	SQ FT	3237	3237
	X6431110	REMOVE ATTENUATOR BASE	EACH	2	2
	X6431120	REMOVE IMPACT ATTENUATOR SAND MODULE	EACH	40	40
	X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1
	X7010218	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	EACH	8	8
	X7030025	WET REFLECTIVE TEMPORARY TAPE, TYPE III - LETTERS AND SYMBOLS	SQ FT	92	92
	X7050167	TEMPORARY TRAFFIC BARRIER TERMINAL, TYPE 1, SPECIAL (TANGENT)	EACH	2	2
	X7200201	WIDTH RESTRICTION SIGNING	L SUM	1	1
	Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1
	Z0016001	DECK SLAB REPAIR (FULL DEPTH, TYPE I)	SQ YD	20	20
	Z0016002	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	15	15
	Z0016200	DECK SLAB REPAIR (PARTIAL)	SQ YD	35	35
	Z0038700	PERMANENT BENCH MARKS	EACH	2	2
	Z0073400	TEMPORARY SUPPORT SYSTEM	EACH	1	1

\* SPECIALTY ITEM

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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

BRIDGE ST. OVER I-72  
 SUMMARY OF QUANTITIES

SCALE: NONE SHEET 8 OF 8 SHEETS STA. TO STA.

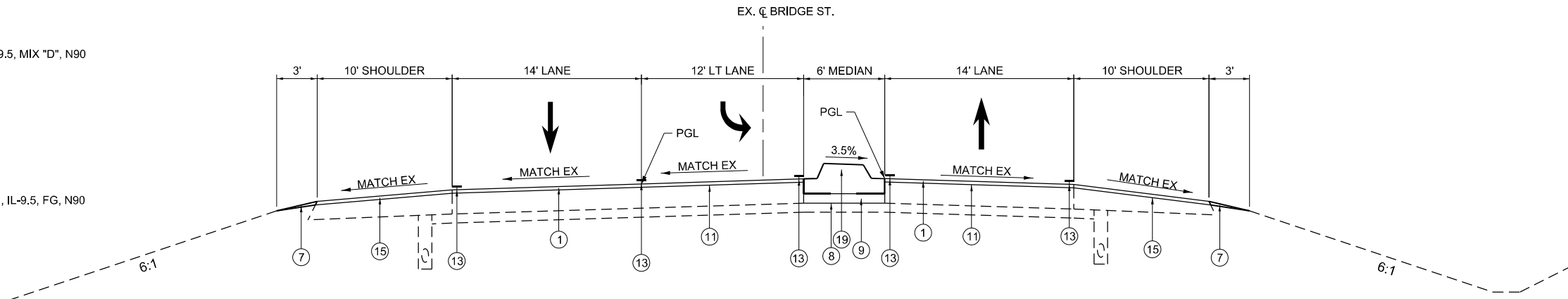
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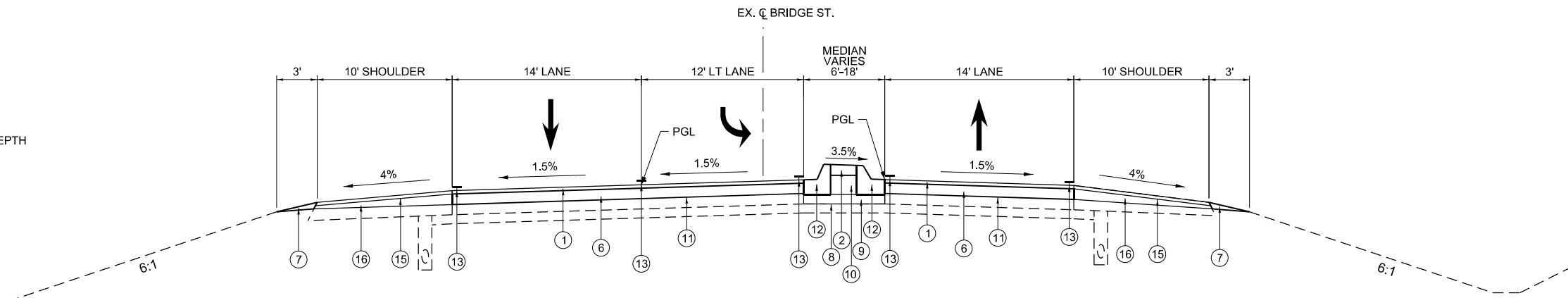
# LEGEND

- ① PROPOSED POLY HOT-MIX ASPHALT SURFACE COURSE, 1 1/2", IL-9.5, MIX "D", N90
- ② PROPOSED CONCRETE MEDIAN SURFACE, 4"
- ③ PROPOSED CONCRETE DECK, 8"
- ④ PROPOSED CONCRETE PARAPET
- ⑤ PROPOSED CONCRETE RAISED MEDIAN (BRIDGE)
- ⑥ PROPOSED HOT-MIX ASPHALT BINDER COURSE, VARIABLE DEPTH, IL-9.5, FG, N90
- ⑦ PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B
- ⑧ PROPOSED MEDIAN REMOVAL
- ⑨ PROPOSED SUBBASE GRANULAR MATERIAL, TYPE B, 4"
- ⑩ PROPOSED SUBBASE GRANULAR MATERIAL, TYPE B
- ⑪ PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL - 1 1/2"
- ⑫ PROPOSED COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
- ⑬ PROPOSED PAVEMENT MARKINGS
- ⑭ PROPOSED STEEL PLATE BEAM GUARDRAIL
- ⑮ PROPOSED HMA SHOULDERS, 1 1/2"
- ⑯ PROPOSED HMA SHOULDERS, VARIABLE DEPTH
- ⑰ PROPOSED PAVEMENT CONNECTOR (PCC) (8" MIN)
- ⑱ CONCRETE MEDIAN, TYPE SB 6.12
- ⑳ PROPOSED CONCRETE CURB, TYPE B



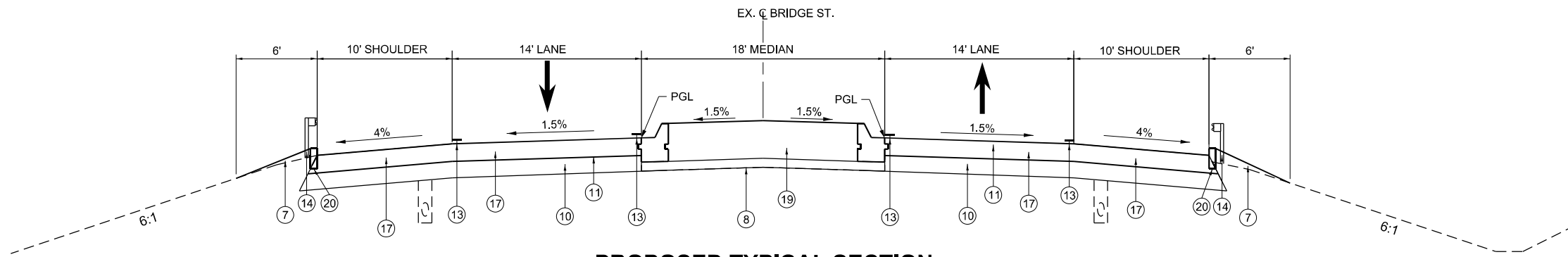
## PROPOSED TYPICAL SECTION

BRIDGE STREET  
LOOKING NORTH  
STA 43+70 TO STA 46+00



## PROPOSED TYPICAL SECTION

BRIDGE STREET  
LOOKING NORTH  
STA 46+00 TO STA 48+34.25



## PROPOSED TYPICAL SECTION

BRIDGE STREET  
LOOKING NORTH  
STA 48+34.25 TO STA 48+49.25  
STA 51+50.75 TO STA 51+65.75

MODEL: Proposed Typical Sections 1  
FILE NAME: J:\2023\70D61\70D61\_031\_Superstructure\_ReofStructure\CAD\_Sheets\DS70D61-SubTypical.dgn

**GREENE & BRADFORD, INC.**  
OF SPRINGFIELD  
CONSULTING ENGINEERS  
3501 COLUMBIA DRIVE  
SPRINGFIELD, ILLINOIS 62711  
PROFESSIONAL DESIGN FIRM NO. 181-001178  
PROFESSIONAL SEAL NO. 001-001178

USER NAME = BenB	DESIGNED - GRG	REVISED - 4/13/2023
PLOT SCALE = 240,000,000 1/ ft.	DRAWN - BKB	REVISED -
PLOT DATE = 4/14/2023	CHECKED - GRG	REVISED -
	DATE - 3/23/2023	REVISED -

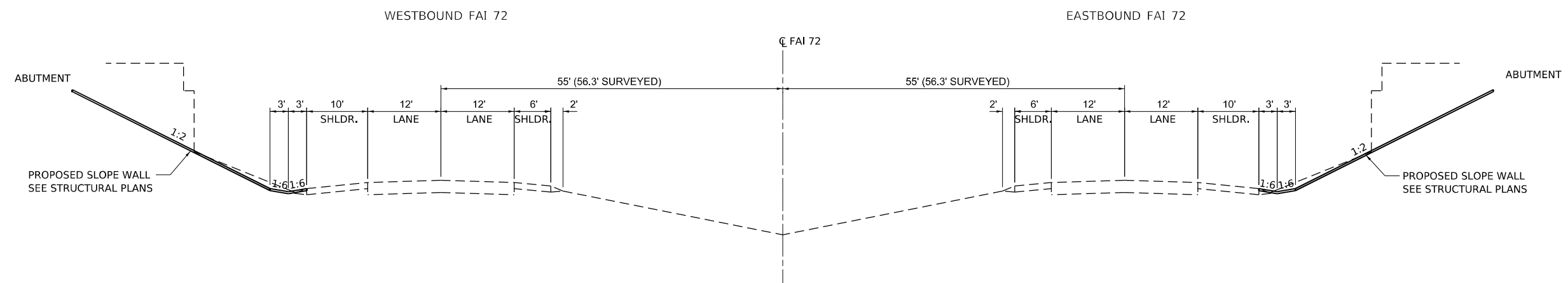
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**BRIDGE STREET OVER I-72  
TYPICAL SECTIONS**

SCALE: N/A      SHEET 3 OF 5 SHEETS      STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	(74-68)BR	PIATT	105	13
CONTRACT NO. 70D61				
ILLINOIS FED. AID PROJECT				





**PROPOSED FAI-72 TYPICAL SECTION**

LOOKING EAST  
WITHIN PROPOSED S.N. 074-0089 LIMITS

MODEL: D:\default\100102.PTB 197-031\_Superstructure\_Rev\Backcross\100102.PTB 197-031\gpm\CAD\_Sheets\DS70061-chn-typical\_172.dgn  
 FILE NAME: 100102.PTB 197-031\_Superstructure\_Rev\Backcross\100102.PTB 197-031\gpm\CAD\_Sheets\DS70061-chn-typical\_172.dgn


**GREENE & BRADFORD, INC.**  
 OF SPRINGFIELD  
CONSULTING ENGINEERS  
 3501 CORKSTATION DRIVE  
 SPRINGFIELD, ILLINOIS 62711  
 PROFESSIONAL DESIGN FIRM NO. 181-001179  
 PROFESSIONAL LICENSE NO. 001-001179-001-001179  
 (217) 792-8844, 792-4222 (F)

USER NAME = BenB	DESIGNED - GRG	REVISED -
	DRAWN - SS	REVISED -
PLOT SCALE = 20,000' / in.	CHECKED - GRG	REVISED -
PLOT DATE = 3/23/2023	DATE - 2/21/2022	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

<b>BRIDGE STREET OVER I-72</b>			
<b>TYPICAL SECTIONS</b>			
SCALE: N/A	SHEET 5 OF 5 SHEETS	STA.	TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	(74-68)BR	PIATT	105	15
CONTRACT NO. 70D61				
ILLINOIS FED. AID PROJECT				





GUARDRAIL SCHEDULE (PERMANENT)

STATION TO STATION	SIDE	SPBGR TYPE A 6' POSTS	TRAF BARRIER TERMINAL		GUARDRAIL REFLECTORS TYPE A	TERMINAL MARKERS DIRECT APPLIED	AGGREGATE SHOULDERS TYPE B
			TYPE 6	TYPE 1 SPECIAL (TANGENT)			
BRIDGE STREET		FOOT	EACH				TON
47+14.85	48+66.75	LT	62.5	1	1	4	1
47+14.85	48+66.75	RT	62.5	1	1	4	1
51+33.25	52+85.15	LT	62.5	1	1	4	1
TOTALS			188	3	3	12	3

GUARDRAIL SCHEDULE (TEMPORARY)

STATION TO STATION	SIDE	TEMP SPBGR TYPE A	TEMP TRAF BAR TERM		GUARDRAIL REFLECTORS TYPE A	TERMINAL MARKERS DIRECT APPLIED
			TYPE 5	TYPE 1 SPECIAL (TANGENT)		
BRIDGE STREET		FOOT	EACH			
51+49.40	52+14.90	RT	65.6	1	1	4
42+85.60	48+51.20	LT	65.6	1	1	4
TOTALS			131.2	2	2	8

PROTECTIVE COAT

ITEM	50300300 SQ YD
CONCRETE GUTTER, TYPE B	4.8
COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	172.9
CONCRETE MEDIAN SURFACE, 4 INCH	379.4
CONCRETE MEDIAN, TYPE SB-6.06 (DOWELLED)	359.7
TOTALS	916.8
USE	917

THIS SCHEDULE INCLUDES ESTIMATED QUANTITIES. THEY MAY BE REDUCED, INCREASED, OR DELETED BY THE ENGINEER BASED ON ACTUAL FIELD CONDITIONS. NO WORK INVOLVING THESE ESTIMATED QUANTITIES SHALL BE PERFORMED WITHOUT THE DIRECTION AND APPROVAL OF THE ENGINEER.

CONCRETE CURB, TYPE B

STATION TO STATION	SIDE	FOOT	60600605
BRIDGE STREET			
48+34.3	48+49.3	LT	15.0
48+34.3	48+49.3	RT	15.0
51+50.8	51+65.8	LT	15.0
51+50.8	51+70.8	RT	20.0
TOTAL			65

CONCRETE MEDIAN SURFACE, 4 INCH

STATION TO STATION	SIDE	SQ FT	60618300
BRIDGE STREET			
46+66.3	48+34.3	LT & RT	1450.7
51+65.8	53+40.8	LT & RT	1513.4
TOTAL			2964

COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12

STATION TO STATION	SIDE	FOOT	60603800
BRIDGE STREET			
46+66.3	48+34.3	LT	168.4
46+66.3	48+34.3	RT	168.0
51+65.8	53+40.8	LT	175.1
51+65.8	53+40.8	RT	175.5
TOTAL			687

CONCRETE MEDIAN, TYPE SB-6.12 (DOWELLED)

STATION TO STATION	SIDE	SQ FT	X6061302
BRIDGE STREET			
43+92.0	46+66.3	RT	1645.6
53+40.8	56+06.0	LT	1591.0
48+34.3	48+49.3	LT & RT	270.0
51+50.8	51+65.8	LT & RT	270.0
TOTAL			3776.6

MISCELLANEOUS PAVING ITEMS SCHEDULE

NUMBER	ITEM	UNIT	TOTAL
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	230
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	2050
40600370	LONGITUDINAL JOINT SEALANT	FOOT	5900
40600990	TEMPORARY RAMP	SQ YD	286

THIS SCHEDULE INCLUDES ESTIMATED QUANTITIES. THEY MAY BE REDUCED, INCREASED, OR DELETED BY THE ENGINEER BASED ON ACTUAL FIELD CONDITIONS. NO WORK INVOLVING THESE ESTIMATED QUANTITIES SHALL BE PERFORMED WITHOUT THE DIRECTION AND APPROVAL OF THE ENGINEER.

ROADWAY PAVING SCHEDULE

LOCATION STATION TO STATION	SIDE	SURFACE WIDTH	POLY HMA	
			BINDER COURSE IL-9.5FG, N90	SURFACE COURSE MIX "D", N90
BRIDGE STREET				TON
43+40.0	48+39.3	LT & RT	VAR	416.3
48+74.8	51+25.2	RT	24.3	56.7
51+60.8	56+50.0	LT & RT	VAR	303.4
TOTALS				719.7
USE				720

HOT-MIX ASPHALT BASE COURSE, 11"

STATION TO STATION	SIDE	WIDTH	SQ YD	35501328
BRIDGE STREET				
43+93.0	48+74.8	LT & RT	VAR	514.9
51+25.2	56+04.0	LT & RT	VAR	503.3
TOTAL				1018.2
USE				1019

PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB

STATION TO STATION	SIDE	WIDTH	SQ YD	42000080
BRIDGE STREET				
48+34.3	48+49.3	LT	33	55
49+34.3	48+49.3	RT	33	55
51+50.8	51+65.8	LT	33	55
51+50.8	51+65.8	RT	33	55
TOTAL				220

SUBBASE GRANULAR MATERIAL, TYPE B

STATION TO STATION	SIDE	TON	31101000
BRIDGE STREET			
43+92.0	48+49.3	LT & RT	321.7
51+50.8	56+06.0	LT & RT	323.8
TOTAL			646

HOT-MIX ASPHALT SHOULDERS

STATION TO STATION	SIDE	TON	48203100
BRIDGE STREET			
43+70.0	48+39.3	LT	160.0
43+70.0	48+39.3	RT	149.7
51+60.8	56+20.0	LT	118.1
51+60.8	56+20.0	RT	93.4
TOTAL			521.2
USE			522

AGGREGATE WEDGE SHOULDERS, TYPE B

STATION TO STATION	SIDE	TON	48102100
BRIDGE STREET			
43+70.0	46+80.9	LT	10.3
43+70.0	46+80.9	RT	8.3
53+19.2	56+20.0	LT	5.4
53+19.2	56+20.0	RT	4.8
TOTAL			28.8
USE			29

IMPACT ATTENUATORS (NON-REDIRECTIVE) TEST LEVEL 3

STATION	SIDE	EACH	64300450
I-72			
WEST PIER	CL	1	
EAST PIER	CL	1	
TOTAL			2

ATTENUATOR BASE

STATION	SIDE	SQ YD	64301090
I-72			
WEST PIER	CL	27.3	
EAST PIER	CL	27.3	
TOTAL			55

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USER NAME = BenB  
DESIGNED -  
DRAWN -  
CHECKED -  
DATE -  
PLOT SCALE = 2,000' / in.  
PLOT DATE = 4/14/2023

REVISOR -  
REVISOR -  
REVISOR -  
REVISOR -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

BRIDGE ST. OVER I-72  
SCHEDULE OF QUANTITIES

SCALE: NONE SHEET 2 OF 3 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	(74-68)BR	PIATT	105	17
CONTRACT NO. 70D61				
ILLINOIS FED. AID PROJECT				

MISCELLANEOUS PAVEMENT MARKING SCHEDULE

NUMBER	ITEM	UNIT	TOTAL
70300150	SHORT-TERM PAVEMENT MARKING REMOVAL	SQ FT	10176
70300211	TEMPORARY PAVEMENT MARKING - LETTERS AND SYMBOLS - PAINT	SQ FT	250
70300221	TEMPORARY PAVEMENT MARKING - LINE 4" - PAINT	FOOT	11356
70307120	TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE IV TAPE	FOOT	18420
78300201	PAVEMENT MARKING REMOVAL - GRINDING	SQ FT	1818
X7030025	WET REFLECTIVE TEMPORARY TAPE, TYPE III - LETTERS AND SYMBOLS	SQ FT	92

THIS SCHEDULE INCLUDES ESTIMATED QUANTITIES. THEY MAY BE REDUCED, INCREASED, OR DELETED BY THE ENGINEER BASED ON ACTUAL FIELD CONDITIONS. NO WORK INVOLVING THESE ESTIMATED QUANTITIES SHALL BE PERFORMED WITHOUT THE DIRECTION AND APPROVAL OF THE ENGINEER.

PREFORMED THERMOPLASTIC PAVEMENT MARKING - LINE 4" GROOVING FOR RECESSED PAVEMENT MARKING 5"

STATION TO STATION		SIDE	DESCRIPTION	78006110/78011025	
				WHITE	YELLOW
				FOOT	
BRIDGE STREET					
43+40.0	56+50.0	LT	EDGE LINE	1310.0	
43+40.0	56+50.0	RT	EDGE LINE	1310.0	
43+92.0	46+66.3	LT	TURN LANE	274.3	
46+66.3	48+39.2	LT	SKIP-DASH	44.0	
51+60.8	53+40.8	RT	SKIP-DASH	46.0	
53+40.8	56+06.0	RT	TURN LANE	265.2	
43+92.0	56+06.0	LT	EDGE LINE		1214.0
43+92.0	56+06.0	RT	EDGE LINE		1214.0
TOTALS				3249.4	2428.0
USE				5678	

PREFORMED THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS GROOVING FOR RECESSED PAVEMENT MARKING, LETTERS AND SYMBOLS

STATION TO STATION		SIDE	DESCRIPTION	WHITE
				SQ FT
BRIDGE STREET				
43+92.0	46+66.3	LT	LEFT TURN ARROW	62.4
53+40.8	56+06.0	RT	LEFT TURN ARROW	62.4
TOTALS				124.8
USE				125

RAISED REFLECTIVE PAVEMENT MARKERS

STATION TO STATION		SIDE	MAXIMUM SPACING	78100100	
				2-WAY AMBER	EACH
BRIDGE STREET					
43+92.0	46+66.3	LT	40		7
53+40.8	46+06.0	RT	40		7
TOTAL				14	

TEMPORARY CONCRETE BARRIER

STATION TO STATION		SIDE	70400100	
			FOOT	EACH
I-72				
1355+40.0	1360+94.0	EB/LT		562.5
1355+40.0	1360+94.0	EB/RT		562.5
1358+20.0	1363+85.0	WB/LT		575.0
1358+20.0	1363+85.0	WB/RT		575.0
BRIDGE STREET				
46+00.0	54+94.0	LT & RT		900.0
TOTAL				3175

IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW) TEST LEVEL 3

STATION		SIDE	70600260	
			EACH	
I-72				
1355+40.0		EB/LT		1
1355+90.0		EB/RT		1
1363+85.0		WB/LT		1
1363+85.0		WB/RT		1
BRIDGE STREET				
47+35.0		RT		1
52+64.0		LT		1
TOTAL				6

RELOCATE TEMPORARY CONCRETE BARRIER

STATION TO STATION		SIDE	70400200	
			FOOT	EACH
BRIDGE STREET				
45+00.0	54+00.0	LT & RT		900.0
TOTAL				900

IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW) TEST LEVEL 3

STATION		SIDE	70600332	
			EACH	
BRIDGE STREET				
48+01.0		RT		1
54+94.2		LT		1
43+66.8		RT		1
56+06.6		RT		1
TOTAL				4

BARRIER WALL REFLECTORS, TYPE C

STATION TO STATION		SIDE	78200011	
			EACH	
BRIDGE STREET				
48+64.3	51+35.8	LT		4
48+64.3	51+35.8	RT		4
TOTAL				8

DECK SLAB REPAIR SCHEDULE

NUMBER	ITEM	UNIT	TOTAL
Z0016001	DECK SLAB REPAIR (FULL DEPTH, TYPE I)	SQ YD	20
Z0016002	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	15
Z0016200	DECK SLAB REPAIR (PARTIAL)	SQ YD	35

THIS SCHEDULE INCLUDES ESTIMATED QUANTITIES. THEY MAY BE REDUCED, INCREASED, OR DELETED BY THE ENGINEER BASED ON ACTUAL FIELD CONDITIONS. NO WORK INVOLVING THESE ESTIMATED QUANTITIES SHALL BE PERFORMED WITHOUT THE DIRECTION AND APPROVAL OF THE ENGINEER.

PAVEMENT PATCHING SCHEDULE

NUMBER	ITEM	UNIT	TOTAL
44201383	CLASS C PATCHES, TYPE IV, 12 INCH	SQ YD	30

THIS SCHEDULE INCLUDES ESTIMATED QUANTITIES. THEY MAY BE REDUCED, INCREASED, OR DELETED BY THE ENGINEER BASED ON ACTUAL FIELD CONDITIONS. NO WORK INVOLVING THESE ESTIMATED QUANTITIES SHALL BE PERFORMED WITHOUT THE DIRECTION AND APPROVAL OF THE ENGINEER.

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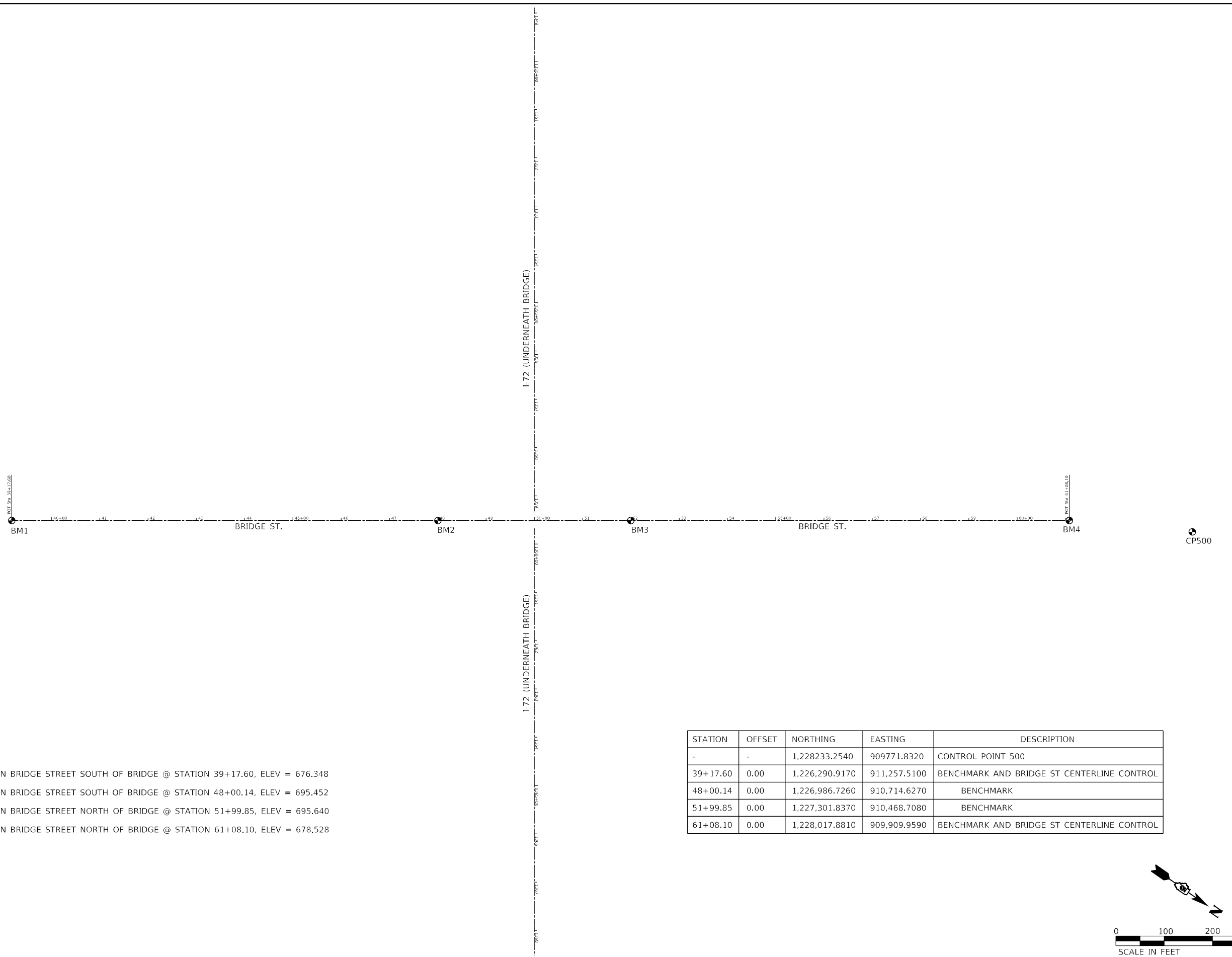
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PLOT DATE = 4/14/2023	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

BRIDGE ST. OVER I-72  
SCHEDULE OF QUANTITIES

SCALE: NONE SHEET 3 OF 3 SHEETS STA. TO STA.

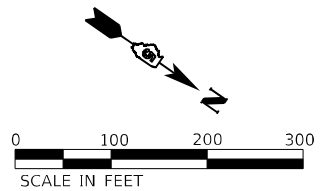
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	(74-68)BR	PIATT	105	18
CONTRACT NO. 70D61				
ILLINOIS FED. AID PROJECT				



**BENCHMARKS:**

- BM1 BRASS DISK ON BRIDGE STREET SOUTH OF BRIDGE @ STATION 39+17.60, ELEV = 676.348
- BM2 BRASS DISK ON BRIDGE STREET SOUTH OF BRIDGE @ STATION 48+00.14, ELEV = 695.452
- BM3 BRASS DISK ON BRIDGE STREET NORTH OF BRIDGE @ STATION 51+99.85, ELEV = 695.640
- BM4 BRASS DISK ON BRIDGE STREET NORTH OF BRIDGE @ STATION 61+08.10, ELEV = 678.528

STATION	OFFSET	NORTHING	EASTING	DESCRIPTION
-	-	1,228,233.2540	909,771.8320	CONTROL POINT 500
39+17.60	0.00	1,226,290.9170	911,257.5100	BENCHMARK AND BRIDGE ST CENTERLINE CONTROL
48+00.14	0.00	1,226,986.7260	910,714.6270	BENCHMARK
51+99.85	0.00	1,227,301.8370	910,468.7080	BENCHMARK
61+08.10	0.00	1,228,017.8810	909,909.9590	BENCHMARK AND BRIDGE ST CENTERLINE CONTROL



MODEL: Default  
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**KLINGNER & ASSOCIATES, P.C.**  
 Engineers • Architects • Surveyors  
 616 N. 24TH ST. QUINCY, ILLINOIS 62301-2172, 223-3670  
 STATE OF ILLINOIS DESIGN FIRM NO. 184-2738

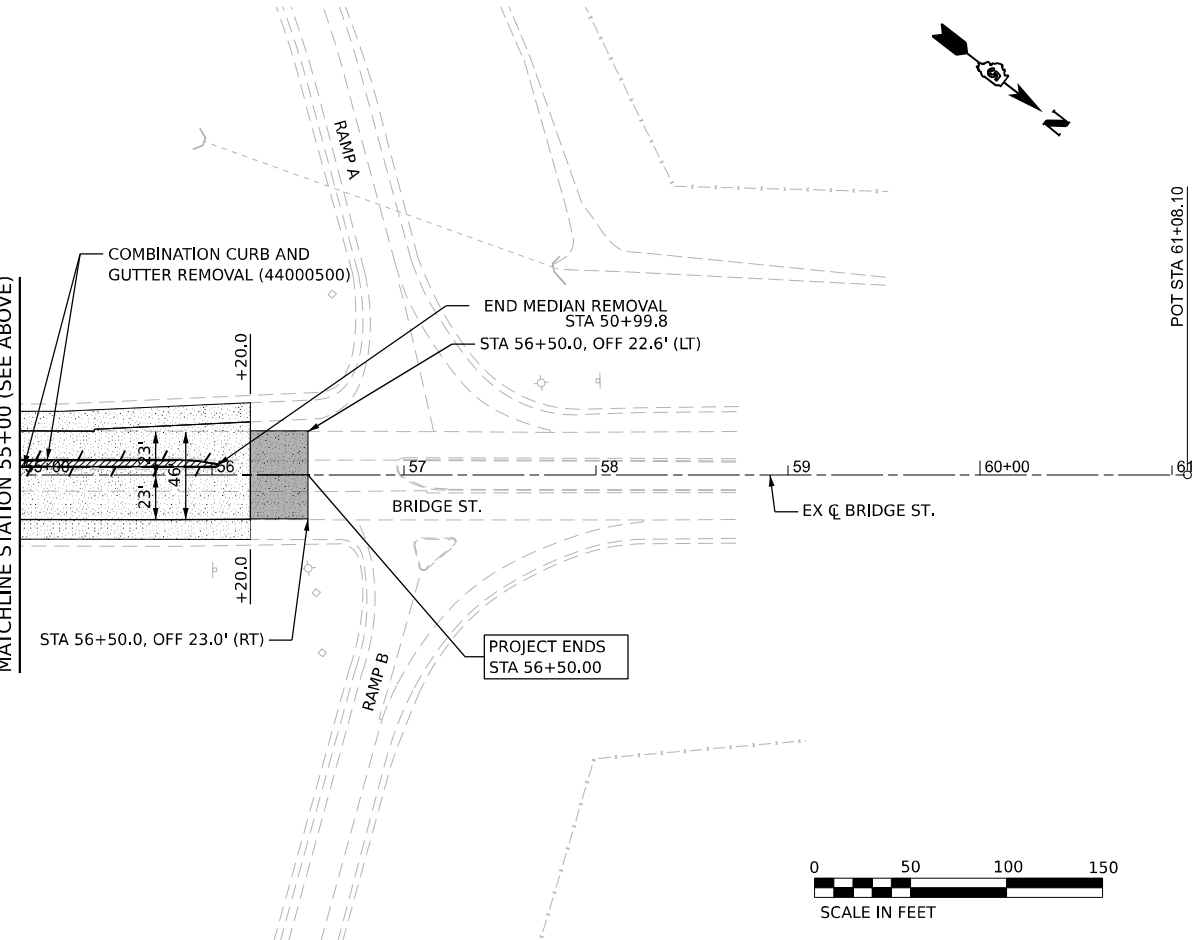
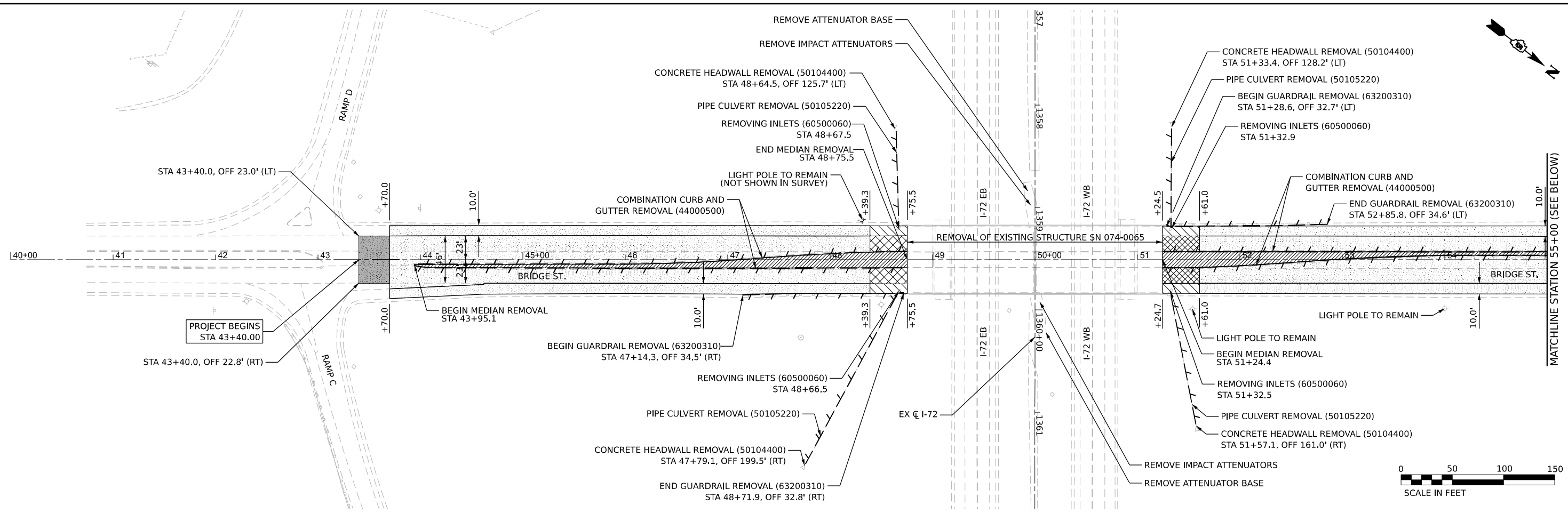
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	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**BRIDGE ST. OVER I-72  
ALIGNMENT, BENCHMARKS, AND CONTROL POINTS**

SCALE: 1" = 100'    SHEET 1 OF 1 SHEETS    STA. 39+17.0 TO STA. 61+08.1

F.A.I. RTE. 72	SECTION (74-68)BR	COUNTY PIATT	TOTAL SHEETS 105	SHEET NO. 19
ILLINOIS FED. AID PROJECT			CONTRACT NO. 70D61	



- LEGEND**
- MEDIAN REMOVAL (44003100)
  - HMA SURFACE REMOVAL - BUTT JOINT (40600982)
  - HMA SURFACE REMOVAL - HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2" (44000155)
  - PAVEMENT REMOVAL (4000100)
  - PAVED SHOULDER REMOVAL (44004250)
  - LINEAR REMOVAL ITEM

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PLOT DATE = 03/21/2023	DATE - 3/21/2023	REVISED -

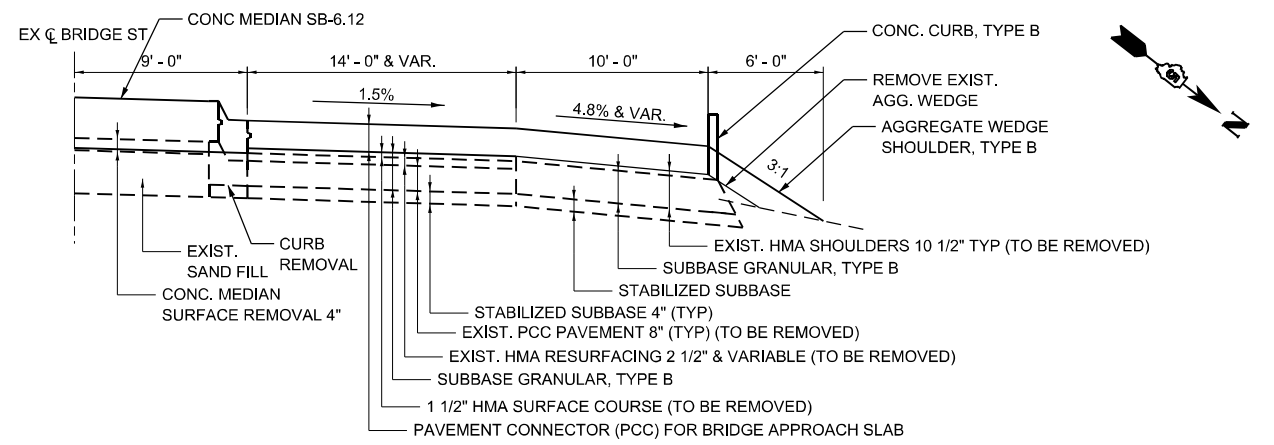
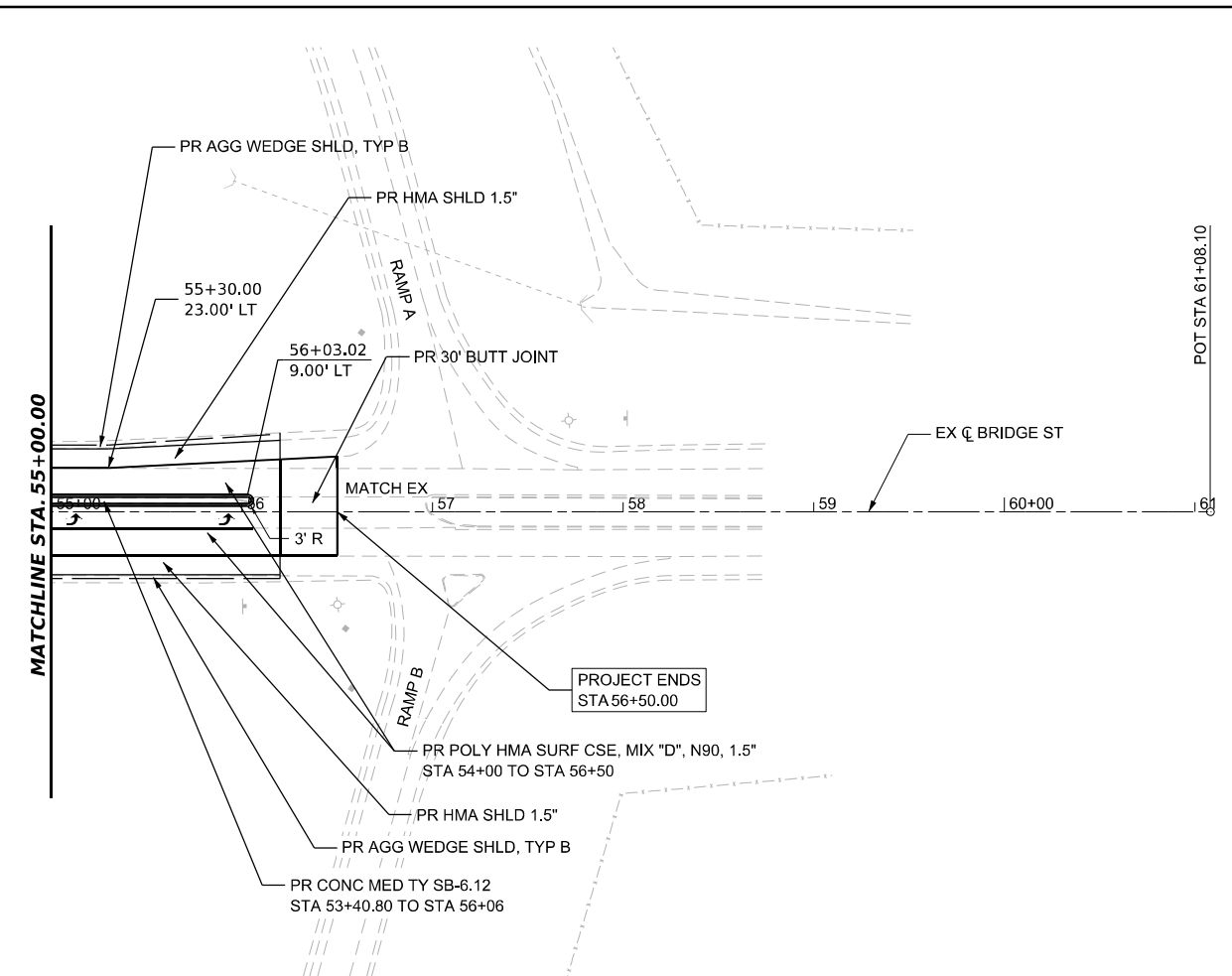
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

<b>BRIDGE ST. OVER I-72</b>			
<b>REMOVAL PLAN</b>			
SCALE: 1" = 50'	SHEET 1	OF 1 SHEETS	STA. 43+40.00 TO STA. 56+50.00

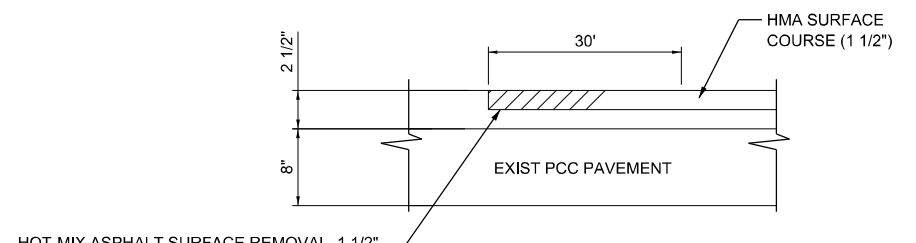
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	(74-68)BR	PIATT	105	20
CONTRACT NO. 70D61				
ILLINOIS FED. AID PROJECT				



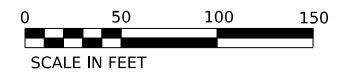
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 BRIDGE STREET OVER I-72



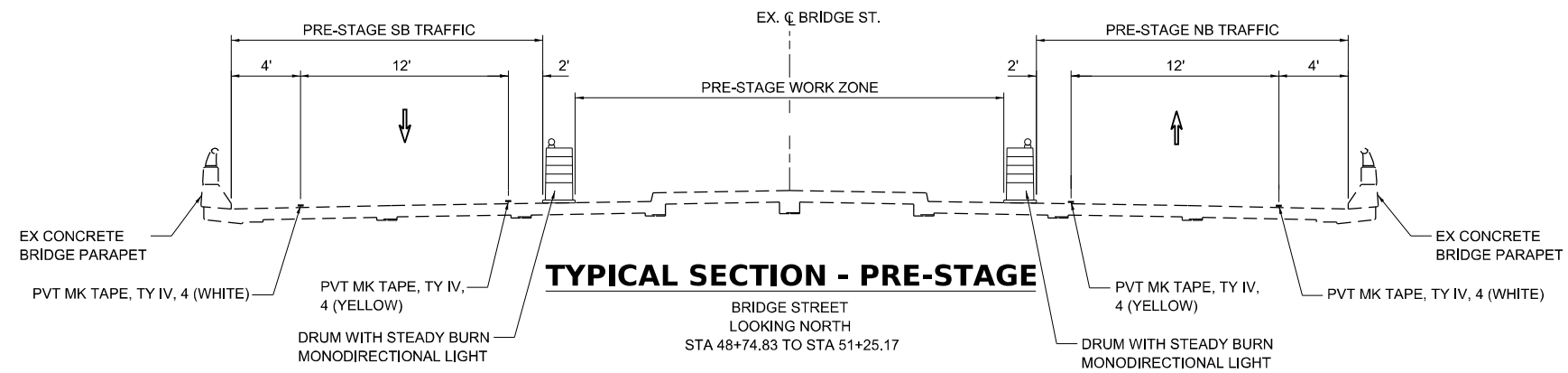
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(NOT TO SCALE)



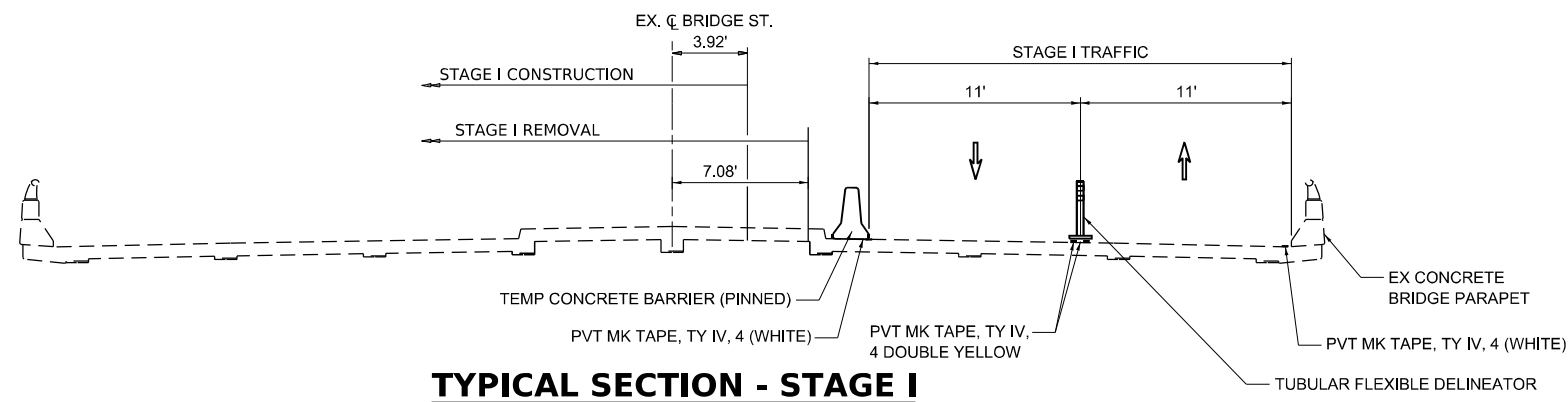
**BUTT JOINT DETAIL**  
(NOT TO SCALE)



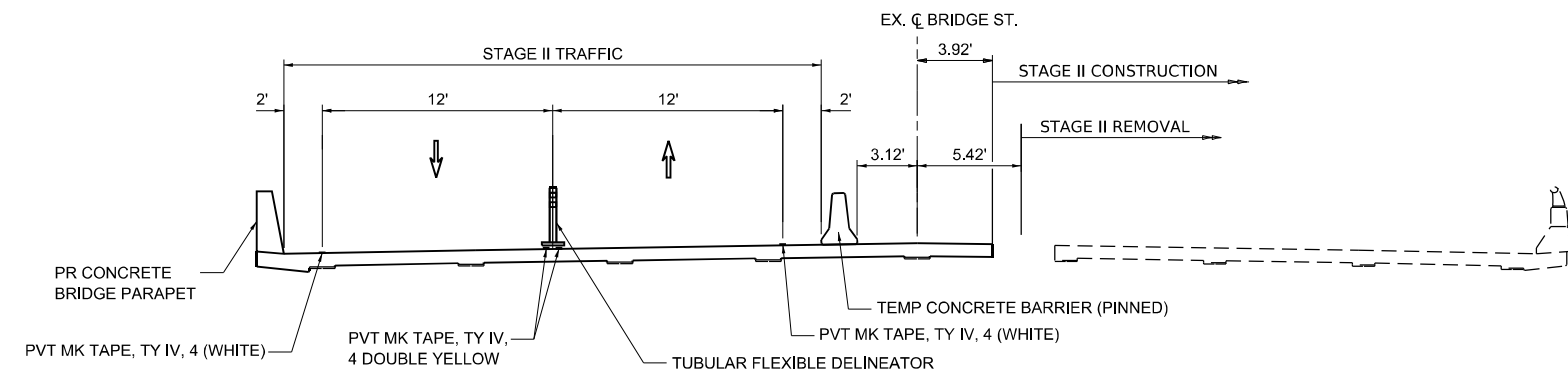
690.30 690.30 689.32 689.32 688.30 688.30 687.20 687.20 686.22 685.26 684.26 683.25 682.79 55+00 56+00 57+00 58+00 59+00 60+00 61+00	USER NAME = BenB PLOT SCALE = 0.16666633 1/ in. PLOT DATE = 4/14/2023	DESIGNED - GRG DRAWN - BKB CHECKED - GRG DATE - 3/23/2023	REVISED - 4/13/2023 REVISED - REVISED - REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>BRIDGE STREET OVER I-72</b> <b>PLAN &amp; PROFILE</b> SCALE: 1"=50' SHEET 2 OF 2 SHEETS STA. 40+00 TO STA. 55+00	F.A.I. RTE. 72 SECTION (74-68)BR COUNTY PIATT TOTAL SHEETS 105 SHEET NO. 22 CONTRACT NO. 70D61 ILLINOIS FED. AID PROJECT
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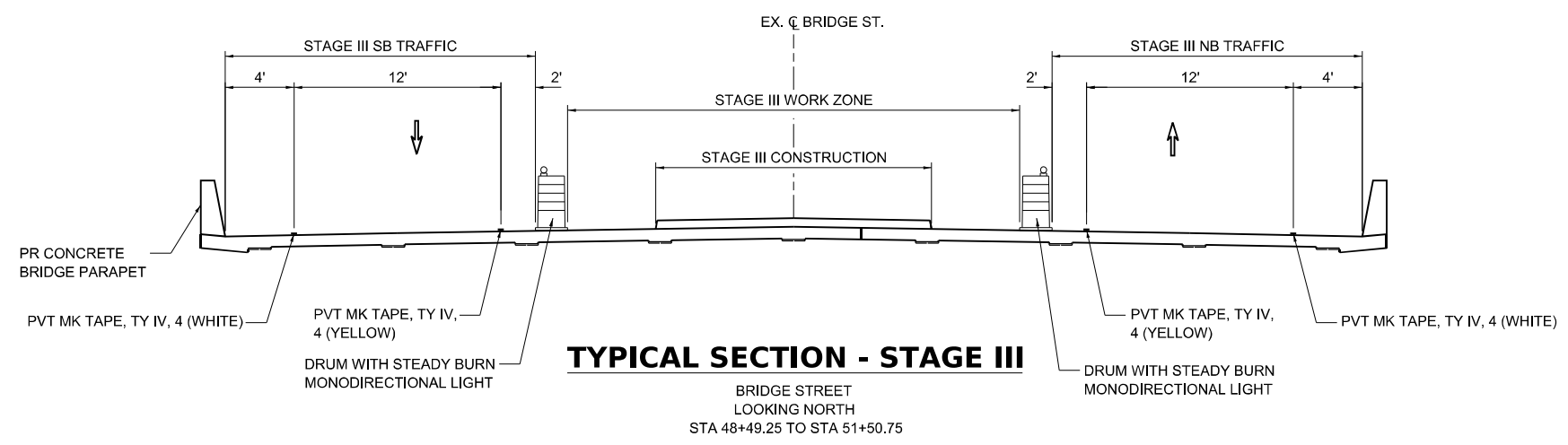
**TYPICAL SECTION - PRE-STAGE**



**TYPICAL SECTION - STAGE I**



**TYPICAL SECTION - STAGE II**



**TYPICAL SECTION - STAGE III**

MODEL: D:\p\102\_PTB 197-031\_Superstructure\_Reof\Bac\cmt\B00T30102\_PTB 197-031\Bpm\CAD\_Sheets\DS70DE1-sub-staging\_typical.dgn  
 GREENE & BRADFORD CONSULTING ENGINEERS

**GREENE & BRADFORD, INC.**  
 OF SPRINGFIELD  
 CONSULTING ENGINEERS  
 3501 CASCADILLA DRIVE  
 SPRINGFIELD, ILLINOIS 62711  
 PROFESSIONAL DESIGN FIRM NO. 181-001179  
 PROFESSIONAL SEAL NO. 000-00000000  
 (217) 794-8844, 794-4223 (F)

USER NAME = BenB	DESIGNED - GRG	REVISED - _____
DRAWN - PG	REVISIONS - _____	
PLOT SCALE = 1/20,000" = 1' / ft.	CHECKED - _____	REVISED - _____
PLOT DATE = 3/23/2023	DATE - _____	REVISED - _____

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**BRIDGE STREET OVER I-72**  
**STAGING TYPICAL SECTIONS**

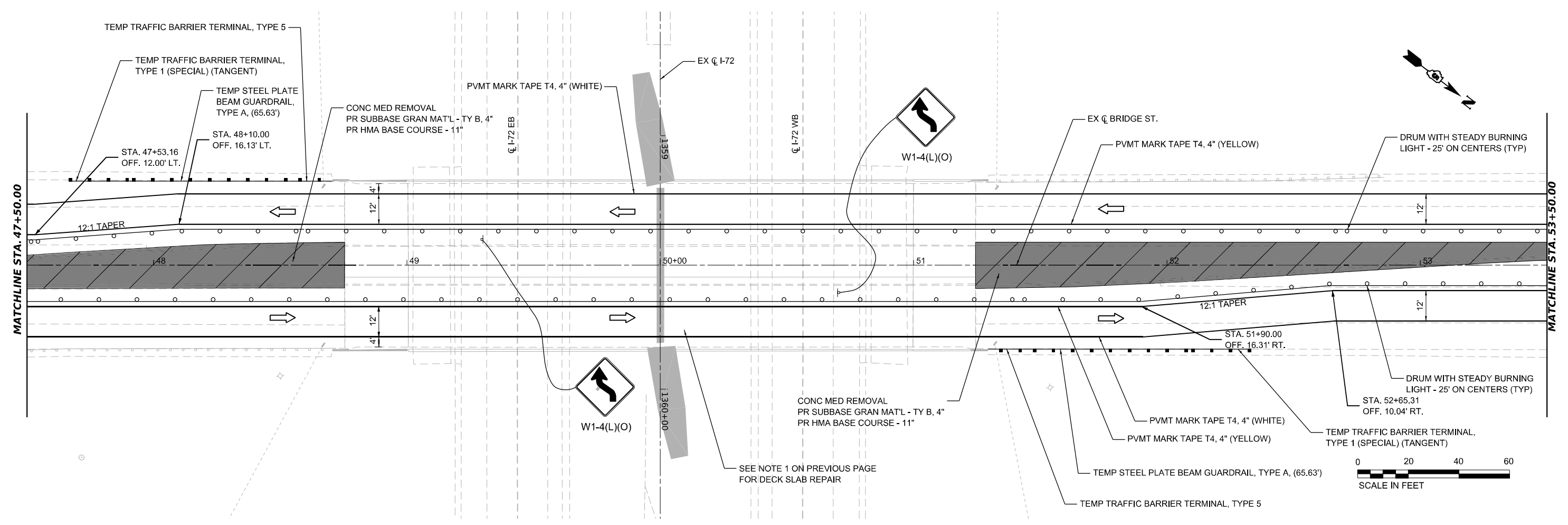
SCALE: N.T.S.    SHEET 1 OF 14 SHEETS    STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	(74-68)BR	PIATT	104	23
CONTRACT NO. 70D61				
ILLINOIS FED. AID PROJECT				





MODEL: BRIDGE ST - Pre-staging Plan 2 (Sheet)  
 FILE NAME: 20230302.PTB 02-2031 Subcontractor Reassessment\DOT\20230302.PTB 02-2031\gpn\CAD\_Sheets\027061-subcontractor\027061.dgn



**GREENE & BRADFORD, INC.**  
 OF SPRINGFIELD  
 CONSULTING ENGINEERS  
 3001 CLAYTON AVENUE  
 SPRINGFIELD, ILLINOIS 62761  
 PROFESSIONAL SEAL: 048-111111-0001  
 (217) 79-5884, (217) 79-5885

USER NAME = BenB	DESIGNED - GRG	REVISED - 4/13/2023
DRAWN - BKB	CHECKED - GRG	REVISED -
PLOT SCALE = 0.16666633" / ft.	DATE - 3/23/2023	REVISED -
PLOT DATE = 4/13/2023		

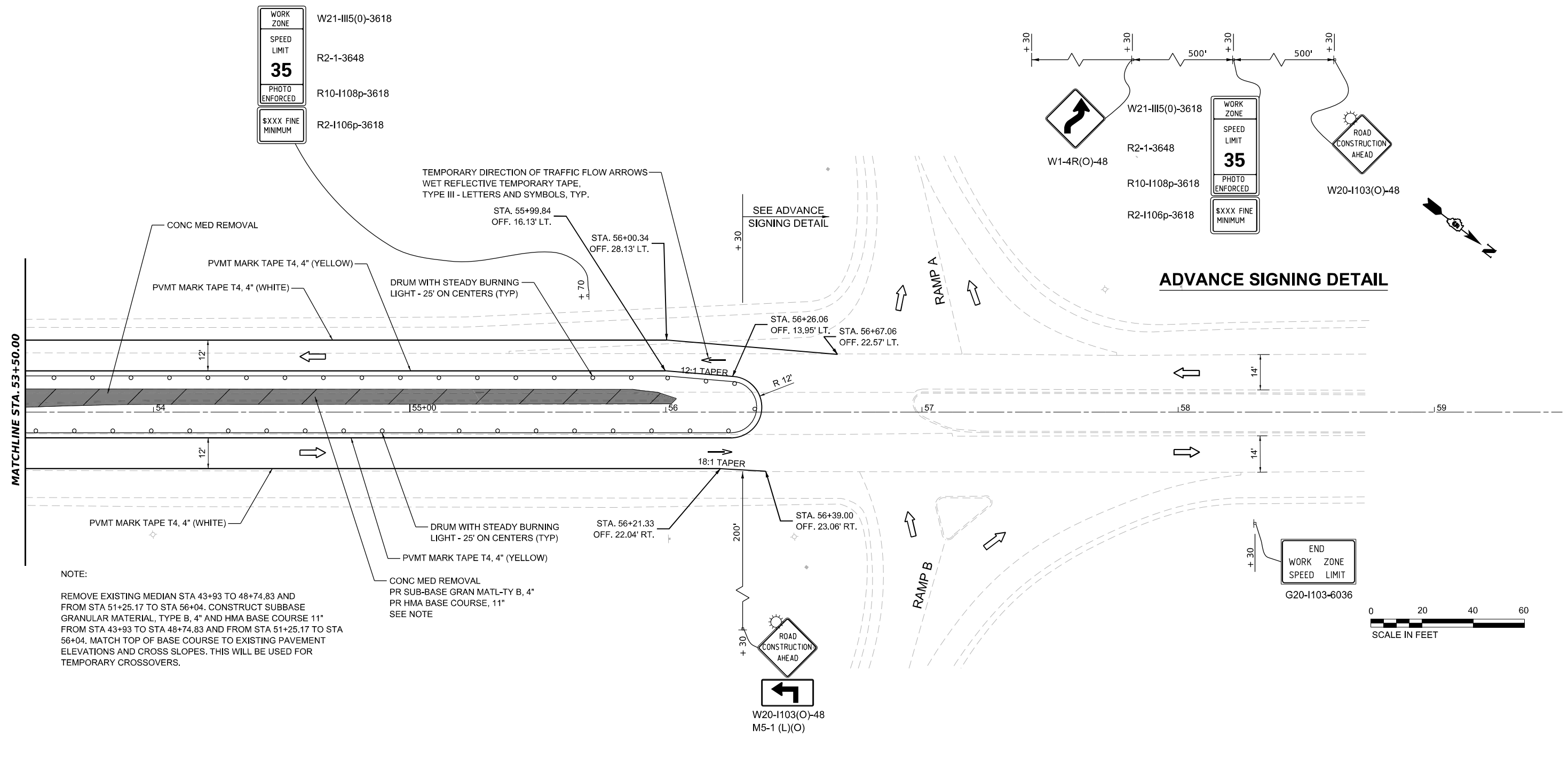
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**BRIDGE ST. OVER I-72  
 STAGING PLAN - PRE-STAGE**

SCALE: 1"=20'    SHEET 3 OF 14 SHEETS    STA. 47+50 TO STA. 53+50

F.A.I. RTE. 72	SECTION (74-68)BR	COUNTY PIATT	TOTAL SHEETS 105	SHEET NO. 25
CONTRACT NO. 70D61				
ILLINOIS FED. AID PROJECT				

MODEL: BRIDGE ST. Over I-72 - Pre-Stage Plan 3 (Sheet)  
 FILE NAME: J:\2023\03\_PTB 02-603 - Subcontractors Reassignment\DOT\2023\02\_PTB 02-603\1\Sign\CAD\_Sheets\0570561-subcontractors.dwg



NOTE:  
 REMOVE EXISTING MEDIAN STA 43+93 TO 48+74.83 AND FROM STA 51+25.17 TO STA 56+04. CONSTRUCT SUBBASE GRANULAR MATERIAL, TYPE B, 4" AND HMA BASE COURSE 11" FROM STA 43+93 TO STA 48+74.83 AND FROM STA 51+25.17 TO STA 56+04. MATCH TOP OF BASE COURSE TO EXISTING PAVEMENT ELEVATIONS AND CROSS SLOPES. THIS WILL BE USED FOR TEMPORARY CROSSOVERS.

CONC MED REMOVAL  
 PR SUB-BASE GRAN MATL-TY B, 4"  
 PR HMA BASE COURSE, 11"  
 SEE NOTE

**GREENE & BRADFORD, INC.**  
 OF SPRINGFIELD  
 CONSULTING ENGINEERS  
 3001 CLAYTON ROAD  
 SPRINGFIELD, ILLINOIS 62771  
 PROFESSIONAL ENGINEER JOHN A. GREENE, LICENSE NO. 124231179  
 PROFESSIONAL SEAL: 124231179 (SEE STATE BOARD REG. NO. 124231179)  
 (217) 79-5884, 79-5427 (F)

USER NAME = BenB	DESIGNED - GRG	REVISED - 4/13/2023
PLOT SCALE = 0.16666633' / in.	DRAWN - BKB	REVISED -
PLOT DATE = 4/13/2023	CHECKED - GRG	REVISED -
	DATE - 3/23/2023	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

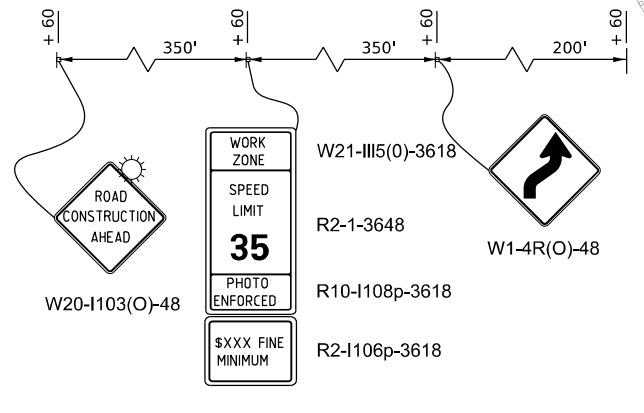
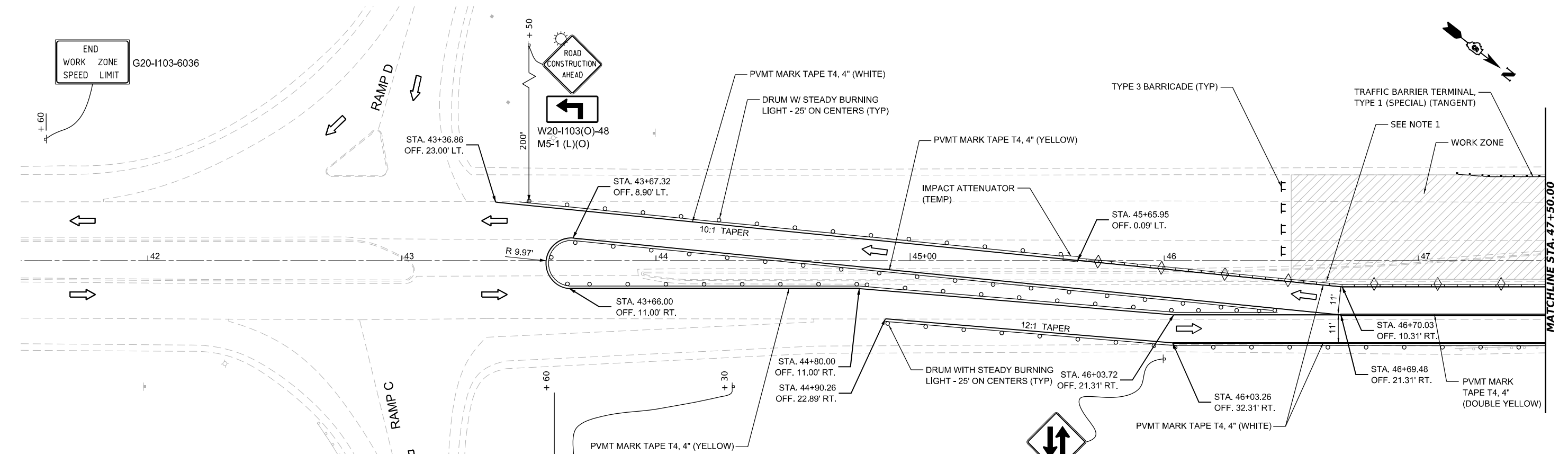
**BRIDGE ST. OVER I-72  
 STAGING PLAN - PRE-STAGE**

SCALE: 1"=20'    SHEET 4 OF 14 SHEETS    STA. 53+50 TO STA. 59+50

F.A.I. RTE. 72	SECTION (74-68)BR	COUNTY PIATT	TOTAL SHEETS 105	SHEET NO. 26
CONTRACT NO. 70D61				
ILLINOIS FED. AID PROJECT				

NOTE:

PROVIDE 42" (MINIMUM) TUBULAR FLEXIBLE DELINEATORS WITH 16 LB. (MINIMUM) BASES AT 25 FT. INTERVALS ALONG THE DOUBLE YELLOW LINE FROM STA 47+00 TO STA 53+00 IN ACCORDANCE WITH ARTICLE 1106.02(f) OF THE STANDARD SPECIFICATIONS.



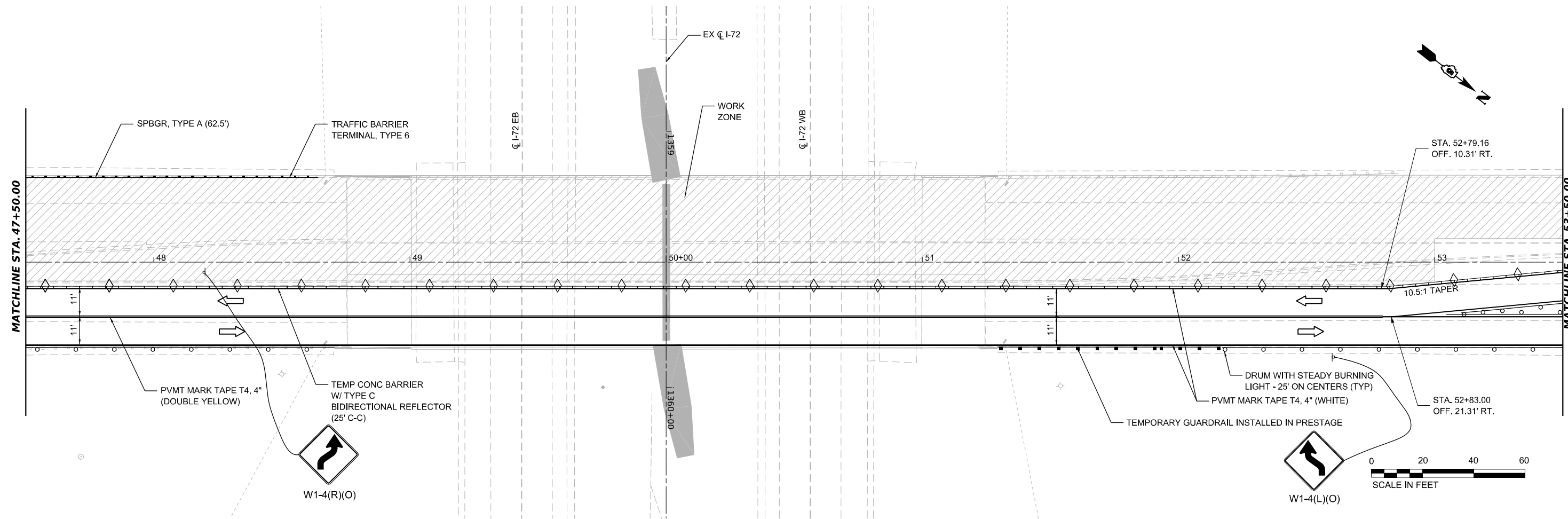
**ADVANCE SIGNING DETAIL**

**STAGE I CONSTRUCTION**

- CLOSE SOUTHBOUND TRAFFIC LANES AND SHOULDER. INSTALL TRAFFIC CONTROL DEVICES INCLUDING TEMPORARY CONCRETE BARRIER, BARRELS, TEMPORARY STRIPING AND SIGNING.
- INSTALL TUBULAR FLEXIBLE DELINEATORS WITH BASES 42" HIGH (MIN.) BETWEEN LANES STA 47+00 TO STA 52+80 @ 25' ON CENTER.
- REMOVE VAULTED MEDIAN FROM BRIDGE DECK AND APPROACH SLABS.
- REMOVE WEST PORTION OF EXISTING CONCRETE BRIDGE DECK AND PARAPET. (SEE TYPICAL SECTION)
- REMOVE FIVE GIRDERS FROM WEST SIDE OF BRIDGE.
- REMOVE WEST PORTION OF EACH VAULTED ABUTMENT.
- REMOVE WEST PORTION OF CENTER PIER.
- REMOVE 1 1/2 INCH EXISTING HMA SURFACE COURSE FROM STA. 46+50 TO STA. 48+49.25 AND FROM STA. 51+50.75 TO STA. 53+50 (SOUTHBOUND LANES AND SHOULDERS).
- CONSTRUCT WEST PORTION OF NEW ABUTMENTS.
- CONSTRUCT WEST PORTION OF NEW CENTER PIER.
- INSTALL FIVE NEW GIRDERS.
- CONSTRUCT WEST PORTION OF NEW PCC BRIDGE DECK
- CONSTRUCT NEW PARAPET ON WEST SIDE OF BRIDGE.
- CONSTRUCT GUARDRAIL AND TERMINALS AT APPROACH AND DEPARTURE SIDE OF BRIDGE PARAPET ALONG SOUTHBOUND LANES
- CONSTRUCT HMA SHOULDER FROM STA 46+50 TO STA 48+39.25 AND FROM STA 51+60.75 TO STA 53+50 (SOUTHBOUND)
- CONSTRUCT HMA BINDER COURSE (VARIABLE DEPTH) FROM STA. 46+50 TO STA. 48+39.25 AND FROM STA. 51+51.75 TO STA. 53+50.
- PLACE HMA BINDER COURSE (VARIABLE DEPTH) IN MEDIAN AREA FROM STA. 46+50 TO STA. 48+48.25 AND FROM STA. 51+51.75 TO STA. 53+50 AS NEEDED FOR STAGE II TRAFFIC.
- CONSTRUCT TEMPORARY RAMPS IN SOUTHBOUND LANE AND SHOULDER STA 46+25 TO STA 46+50; STA 48+20 TO STA 48+34.25; STA 51+65.75 TO STA 51+80; AND STA 53+50 TO STA 53+75.

MODEL: BRIDGE ST - Staging 1 (Sheet) 1  
 FILE NAME: 20230303\_PTB 07-23-23\_Superstructure RehabilitationIDD102102\_PTB 07-23-2310101\_CAD\_Sheets07081-technical.dgn, 1.dgn  
 GREENE & BRADFORD CONSULTING ENGINEERS

<b>GREENE &amp; BRADFORD, INC.</b> OF SPRINGFIELD <small>CONSULTING ENGINEERS                  3001 SOUTH MAIN STREET                  SPRINGFIELD, ILLINOIS 62761                  PROFESSIONAL PERSON FROM NO. 124231179                  PROFESSIONAL SEAL: 0384181000 FROM REG. 08/24/2008                  (618) 793-8844, 793-4227 (F)</small>				USER NAME = BenB DESIGNED - GRG DRAWN - BKB CHECKED - GRG PLOT DATE = 4/14/2023	REVISED - 4/13/2023 REVISED - REVISED - REVISED -	<b>STATE OF ILLINOIS                  DEPARTMENT OF TRANSPORTATION</b>				<b>BRIDGE ST. OVER I-72                  STAGING PLAN - STAGE 1</b>				F.A.I. RTE. = 72 SECTION = (74-68)BR COUNTY = PIATT ILLINOIS FED. AID PROJECT	TOTAL SHEETS = 105 SHEET NO. = 27 CONTRACT NO. 70D61
PLOT SCALE = 0.16666633" / ft. PLOT DATE = 4/14/2023	DATE = 3/23/2023	SCALE: 1"=20' SHEET 5 OF 14 SHEETS STA. 41+50 TO STA. 47+50													



MODEL: BRIDGE\_ST - Staging 1 (Sheet)  
 FILE NAME: 202303.PTB 07-2311gm\CAD\_Sheets\070616ch2\stage1a\_1.dgn

**GREENE & BRADFORD, INC.**  
 OF SPRINGFIELD  
CONSULTING ENGINEERS  
 5303 CLAYTON ROAD  
 SPRINGFIELD, ILLINOIS 62711  
 PROFESSIONAL ENGINEERING FIRM NO. 1245381179  
 PROFESSIONAL SEAL 04841760 0000 0000 0000 0000  
 (217) 7548844, 7544277 (F)

USER NAME = BenB	DESIGNED -	REVISED -
PLOT SCALE = 0.16666633' / ft.	DRAWN -	REVISED -
PLOT DATE = 4/14/2023	CHECKED -	REVISED -
	DATE -	REVISED -

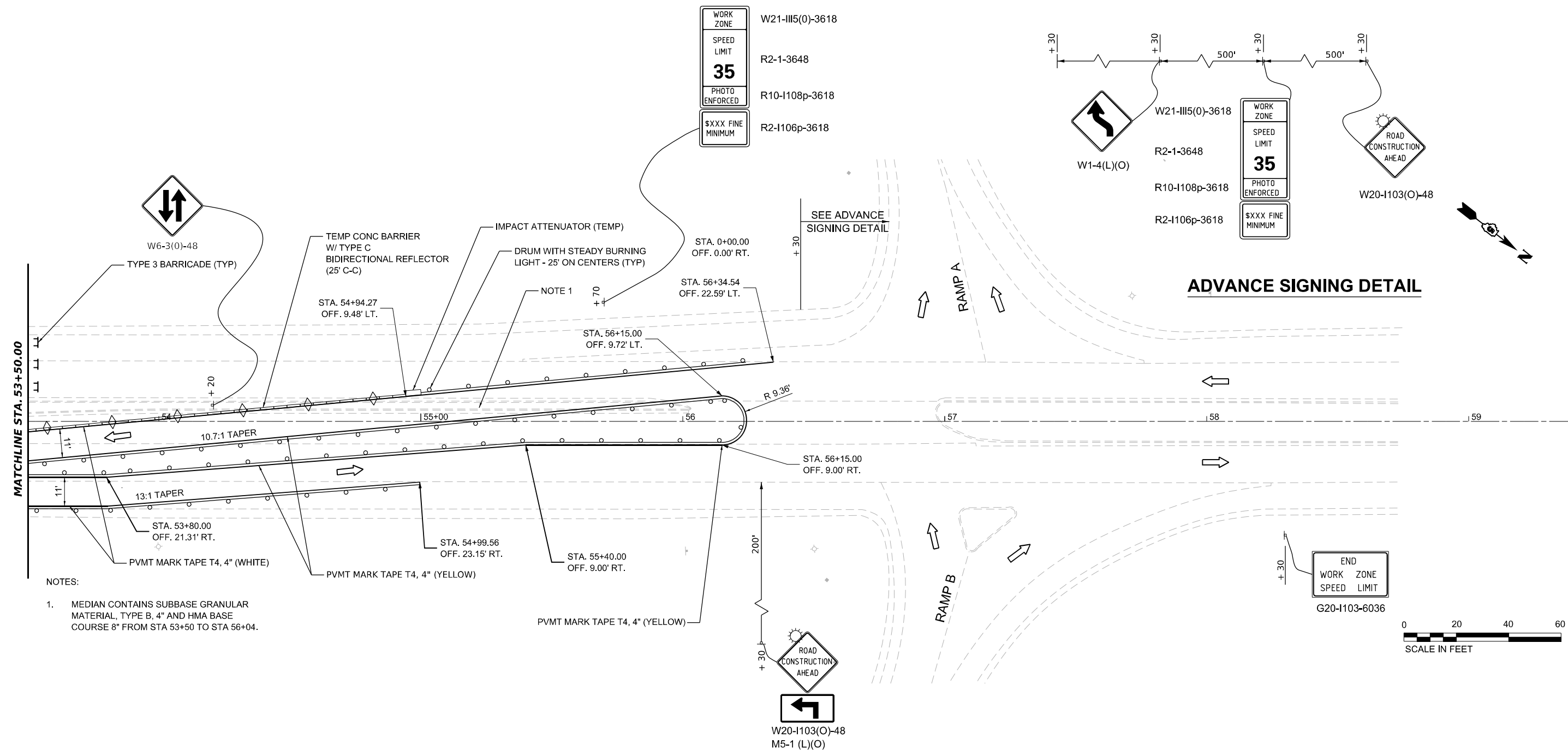
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**BRIDGE ST. OVER I-72  
 STAGING PLAN - STAGE 1**

SCALE: 1"=20'      SHEET 6      OF 14      SHEETS      STA. 47+50      TO STA. 53+50

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	(74-68)BR	PIATT	105	28
CONTRACT NO. 70D61				
ILLINOIS FED. AID PROJECT				

MODEL: BRIDGE\_01 - Sheets 1 thru 9 (Sheet)  
 FILE NAME: J:\2023\03\PTB 102-331\Subcontractor\RebB\Attachment\DOT\102-PTB 102-331\Sign\CAD\_Sheets\057065-tech\stage1a\_1.dgn



- NOTES:
1. MEDIAN CONTAINS SUBBASE GRANULAR MATERIAL, TYPE B, 4" AND HMA BASE COURSE 8" FROM STA 53+50 TO STA 56+04.



**GREENE & BRADFORD, INC.**  
 OF SPRINGFIELD  
 CONSULTING ENGINEERS  
 3001 CLAYTON AVENUE  
 SPRINGFIELD, ILLINOIS 62761  
 PROFESSIONAL ENGINEER JOHN A. GREENE, LICENSE NO. 124231179  
 PROFESSIONAL ENGINEER JAMES BRADFORD, LICENSE NO. 124231179  
 (217) 79-5884, (765) 227-8717

USER NAME = BenB	DESIGNED -	REVISED -
PLOT SCALE = 0.16666633" / ft.	DRAWN -	REVISED -
PLOT DATE = 3/23/2023	CHECKED -	REVISED -
	DATE -	REVISED -

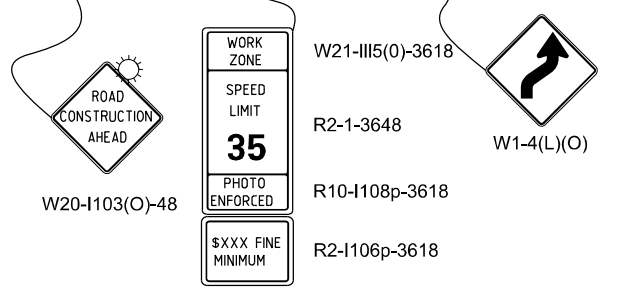
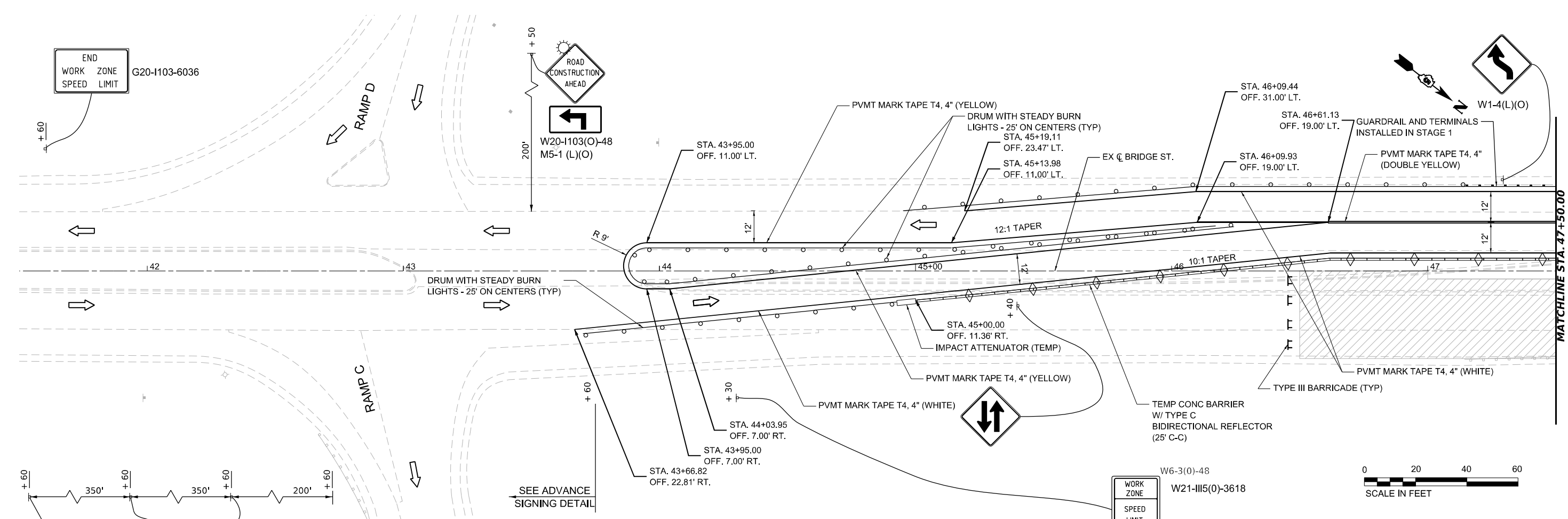
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**BRIDGE ST. OVER I-72  
 STAGING PLAN - STAGE 1**

SCALE: 1"=20'    SHEET 7 OF 14 SHEETS    STA. 53+50 TO STA. 59+50

F.A.I. RTE. 72	SECTION (74-68)BR	COUNTY PIATT	TOTAL SHEETS 105	SHEET NO. 29
CONTRACT NO. 70D61				
ILLINOIS FED. AID PROJECT				

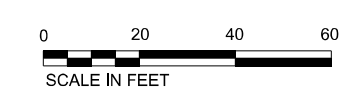
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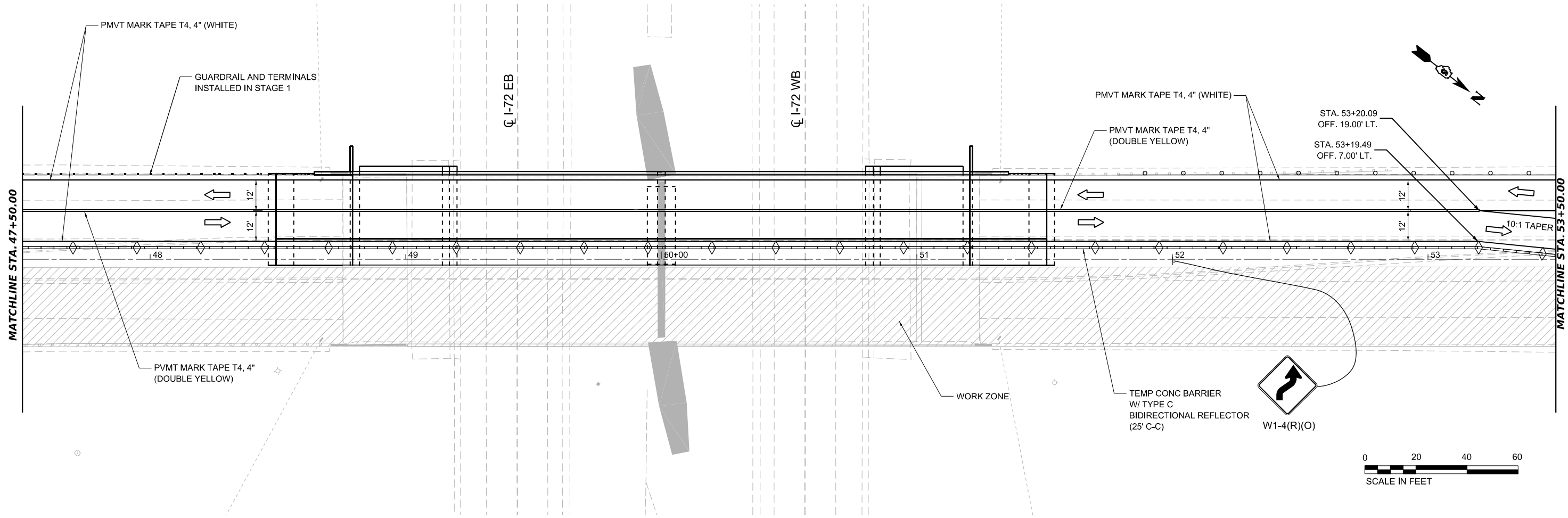


- STAGE II CONSTRUCTION**
- INSTALL TRAFFIC BARRIER TERMINAL TYPE 6, AND TRAFFIC BARRIER TERMINAL, TYPE 1 - SPECIAL AT END OF PARAPET ON SOUTHBOUND LANES
  - CLOSE NORTHBOUND LANES AND SHOULDER. PLACE TEMPORARY CONCRETE BARRIER, BARRELS, TEMPORARY STRIPING AND SIGNING.
  - INSTALL 42" (MINIMUM) TUBULAR FLEXIBLE DELINEATORS WITH TWO 3" HIGH REFLECTIVE COLLARS AND 16 LB. (MINIMUM) BASES AT 25 FT. INTERVALS ALONG THE DOUBLE YELLOW LINE FROM STA. 46+25 TO STA. 53+25 IN ACCORDANCE WITH ARTICLE 1106.02(f) OF THE STANDARD SPECIFICATIONS.
  - REMOVE EAST PORTION OF EXISTING CONCRETE BRIDGE DECK AND PARAPET (26'-10" WIDE)
  - REMOVE FOUR GIRDERS.
  - REMOVE EAST PORTION OF EACH VAULTED ABUTMENT.
  - REMOVE EAST PORTION OF EXISTING CENTER PIER.
  - REMOVE 1 1/2 INCH EXISTING HMA SURFACE COURSE FROM STA. 46+50 TO STA. 48+74.83 AND FROM STA. 51+25.17 TO STA. 53+50 (NORTHBOUND LANES AND SHOULDERS).

- CONSTRUCT EAST PORTION OF NEW ABUTMENTS AND NEW CENTER PIER.
- INSTALL FOUR NEW GIRDERS
- CONSTRUCT EAST PORTION OF NEW PCC BRIDGE DECK
- CONSTRUCT PARAPET ON THE EAST SIDE OF THE BRIDGE.
- CONSTRUCT HMA SHOULDER FROM STA 46+50 TO STA 48+39.25 AND FROM STA 51+60.75 TO STA 53+50
- CONSTRUCT GUARDRAIL AND TRAFFIC BARRIER TERMINALS AT NORTHBOUND APPROACH TO BRIDGE
- PLACE HMA BINDER COURSE (VARIABLE DEPTH) FROM STA. 46+50 TO STA. 48+39.25 AND FROM STA. 51+60.75 TO STA. 53+50.
- CONSTRUCT HMA SHOULDERS STA 46+50 TO STA 48+39.25 AND FROM STA 51+60.75 TO STA 53+50.
- CONSTRUCT TEMPORARY RAMPS IN NORTHBOUND LANE AND SHOULDER STA 46+25 TO STA 46+50, STA 48+20 TO STA 48+34.25, STA 57+65.75 TO STA 51+80, AND STA 53+50 TO STA 53+75.

WORK ZONE: W6-3(O)-48  
 SPEED LIMIT: R2-1-3648  
 PHOTO ENFORCED: R10-1108p-3618  
 \$XXX FINE MINIMUM: R2-1106p-3618





MODEL: BRIDGE ST - Staging 2 Plan 2 (Sheet)  
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**GREENE & BRADFORD, INC.**  
 OF SPRINGFIELD  
CONSULTING ENGINEERS  
 5301 COUNTRYMAN DRIVE  
 SPRINGFIELD, ILLINOIS 62711  
 PROFESSIONAL PERSON FROM NO. 1242331179  
 PROFESSIONAL SEAL: 1242331179 (SEE BACK)  
 (217) 79-5884, 79-5227 (F)

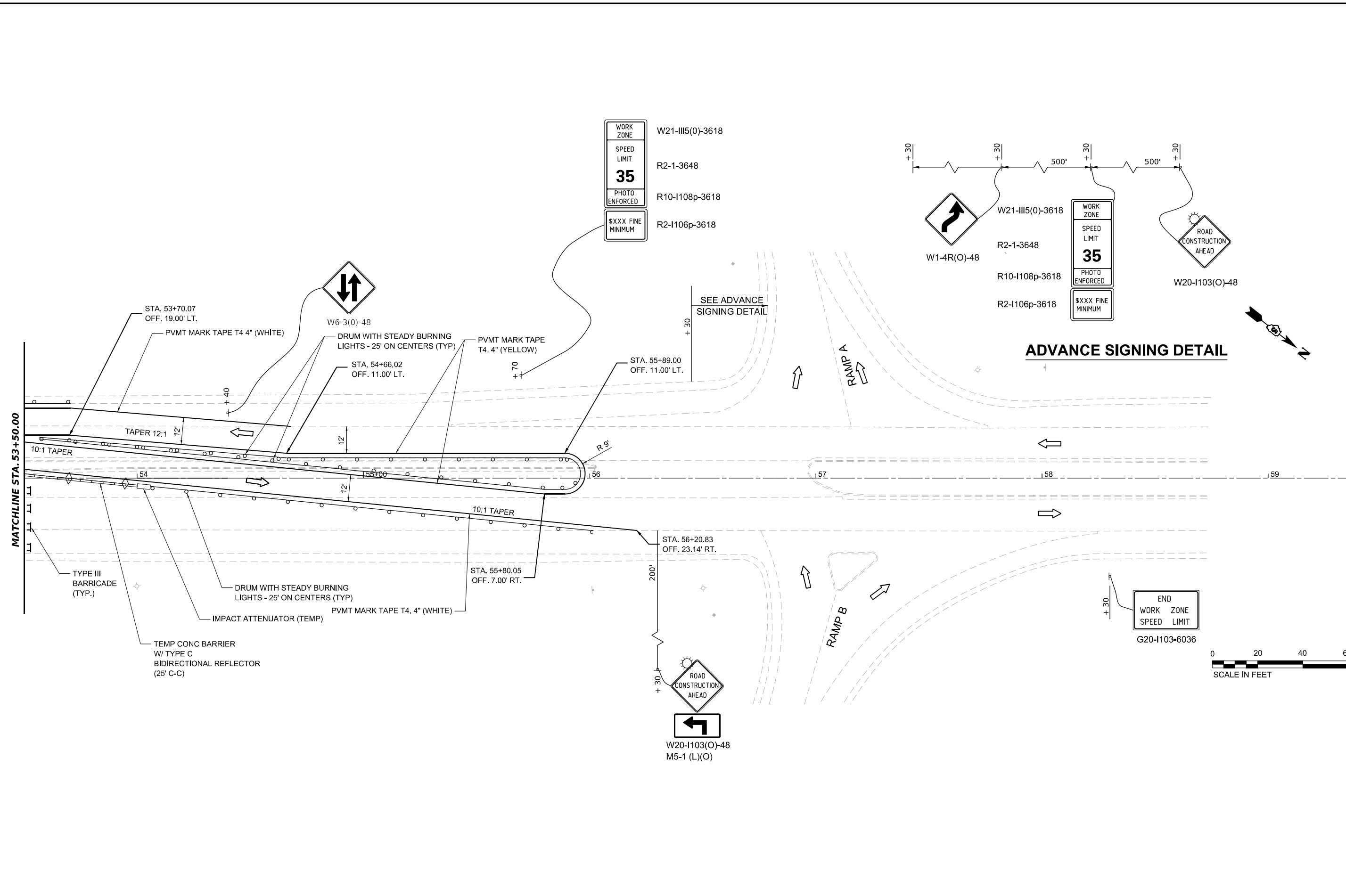
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PLOT SCALE = 0.16666633' / in.	DATE - 3/23/2023	REVISED -
PLOT DATE = 4/14/2023		

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**BRIDGE ST. OVER I-72**  
**STAGING PLAN - STAGE 2**

SCALE: 1"=20'    SHEET 9 OF 14 SHEETS    STA. 47+50 TO STA. 53+50

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	(74-68)BR	PIATT	105	31
CONTRACT NO. 70D61			ILLINOIS FED. AID PROJECT	



MODEL: BRIDGE\_ST - Staging Plan 2 (Sheet)  
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 DATE PLOTTED: 3/23/2023

<b>GREENE &amp; BRADFORD, INC.</b> OF SPRINGFIELD <small>CONSULTING ENGINEERS          2001 SOUTH MAIN STREET          SPRINGFIELD, ILLINOIS 62711          PROFESSIONAL SEAL: 048417800, 048417800, 048417800          (217) 79-5884, (618) 227-97</small>	USER NAME = BenB	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 0.16666633' / in.	CHECKED -	REVISED -
	PLOT DATE = 3/23/2023	DATE -	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

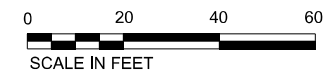
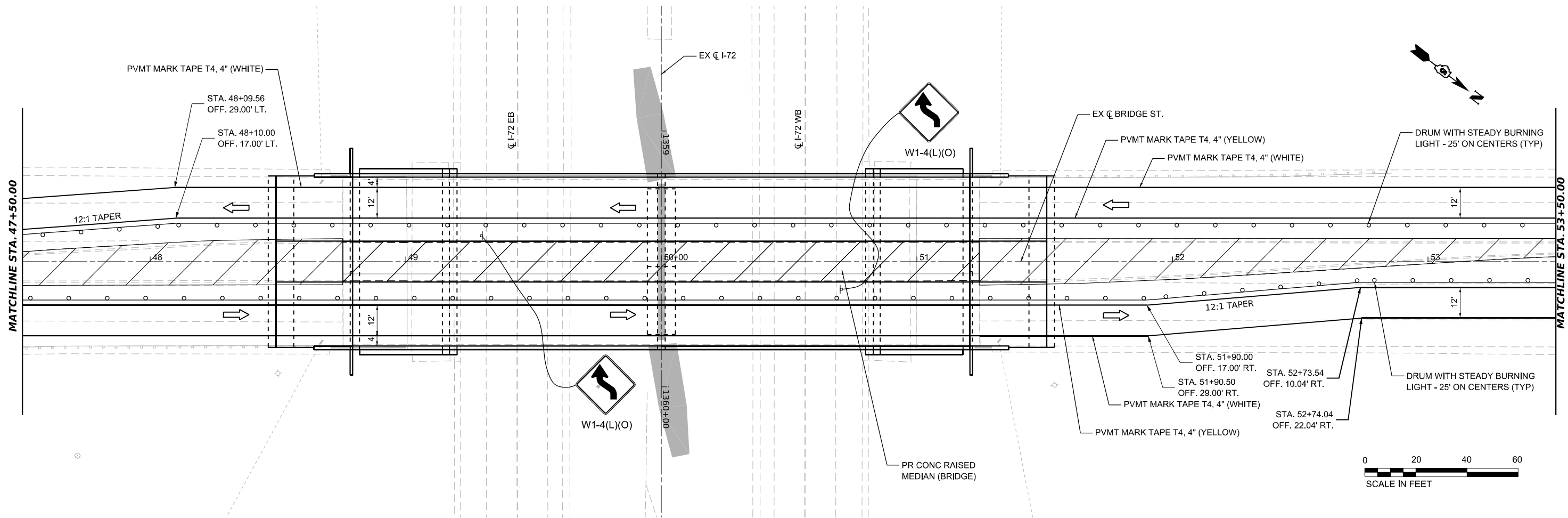
**BRIDGE ST. OVER I-72**  
**STAGING PLAN - STAGE 2**

SCALE: 1"=20'    SHEET 10 OF 14 SHEETS    STA. 53+50 TO STA. 59+50

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	(74-68)BR	PIATT	105	32
CONTRACT NO. 70D61			ILLINOIS FED. AID PROJECT	







MODEL: BRIDGE ST - Stage 3 Plan 2 (Sheet)  
 FILE NAME: 202303.PTB 02-231 Superstructure Reassessment\DOT\202303.PTB 02-231\gpr\CAD\_Sheets\0570561-hatched.dgn, 3.dgn

**GREENE & BRADFORD, INC.**  
 OF SPRINGFIELD  
 CONSULTING ENGINEERS  
 3001 COUNTESS BLVD. SUITE 200  
 SPRINGFIELD, ILLINOIS 62761  
 PROFESSIONAL SEAL: JAMES BRADFORD, PE, No. 124531179  
 PROFESSIONAL SEAL: JAMES BRADFORD, PE, No. 124531179  
 (217) 79-5884, (217) 79-5277 (F)

USER NAME = BenB	DESIGNED -	REVISED -
PLOT SCALE = 0.16666633" / ft.	DRAWN -	REVISED -
PLOT DATE = 3/23/2023	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**BRIDGE ST. OVER I-72**  
**STAGING PLAN - STAGE 3**

SCALE: 1"=20'    SHEET 12 OF 14 SHEETS    STA. 47+50 TO STA. 53+50

F.A.I. RTE. 72	SECTION (74-68)BR	COUNTY PIATT	TOTAL SHEETS 105	SHEET NO. 34
CONTRACT NO. 70D61				
ILLINOIS FED. AID PROJECT				

WORK ZONE  
SPEED LIMIT  
**35**  
PHOTO ENFORCED  
\$XXX FINE MINIMUM

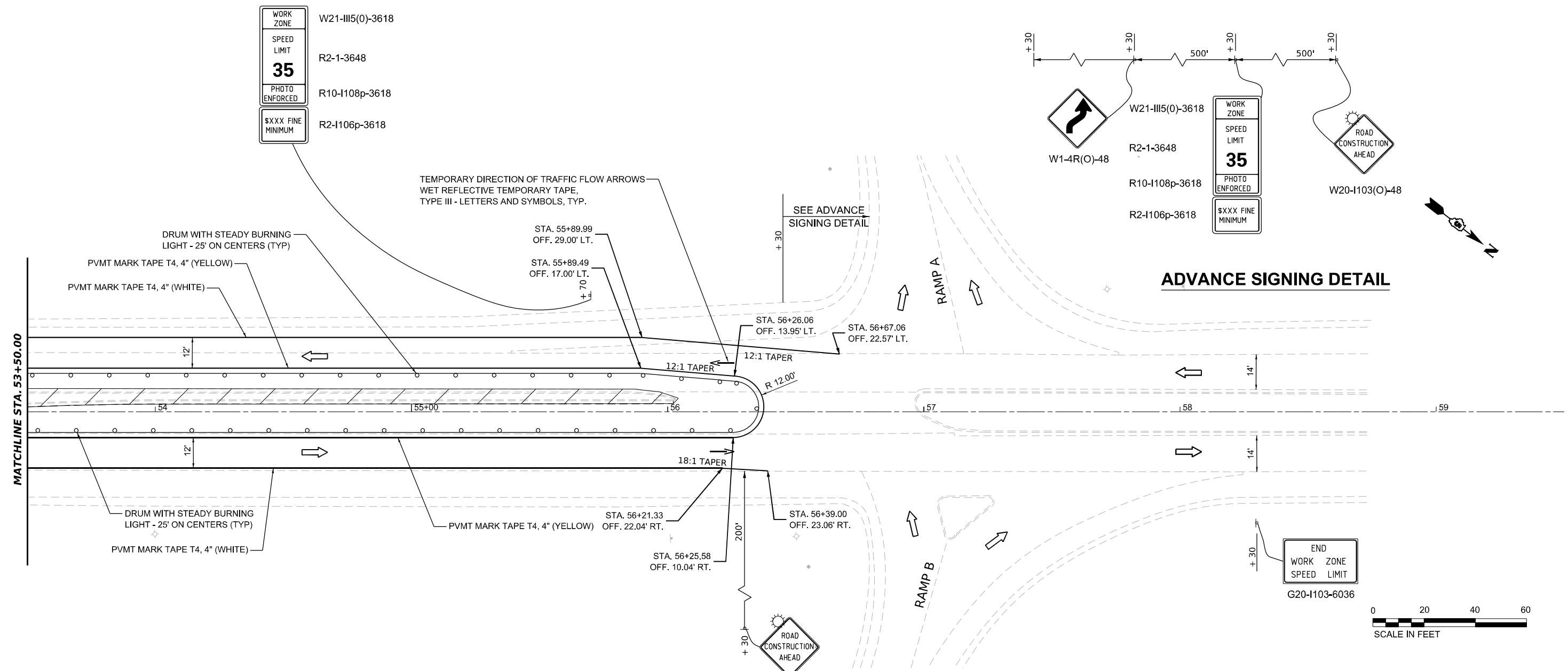
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R2-1-3648  
R10-1108p-3618  
R2-1106p-3618

W1-4R(O)-48  
W21-III5(O)-3618  
R2-1-3648  
R10-1108p-3618  
R2-1106p-3618

WORK ZONE  
SPEED LIMIT  
**35**  
PHOTO ENFORCED  
\$XXX FINE MINIMUM

W20-1103(O)-48

**ADVANCE SIGNING DETAIL**



MODEL: BRIDGE\_01 - Stage 0 Plan 0 (Sheet)  
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 DATE: 3/23/2023

**GREENE & BRADFORD, INC.**  
OF SPRINGFIELD

CONSULTING ENGINEERS  
3001 CLAYTON AVENUE  
SPRINGFIELD, ILLINOIS 62761  
PROFESSIONAL PERSON FROM NO. 146331179  
PROFESSIONAL SEAL: 03-01-1980 FROM REG. 062-020304  
(217) 79-5884, 79-5227 (F)

USER NAME = BenB	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0.16666633' / in.	CHECKED -	REVISED -
PLOT DATE = 3/23/2023	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**BRIDGE ST. OVER I-72  
STAGING PLAN - STAGE 3**

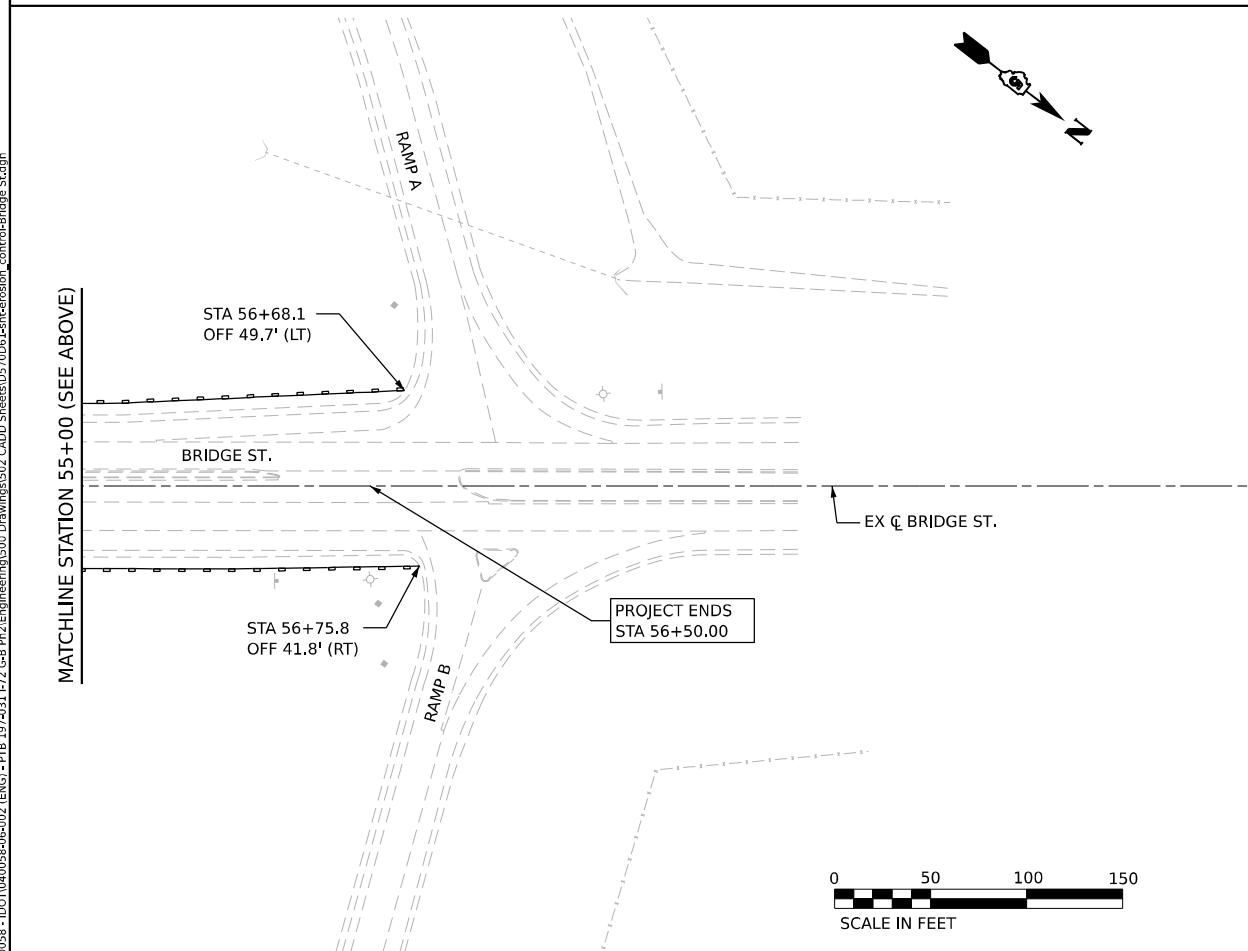
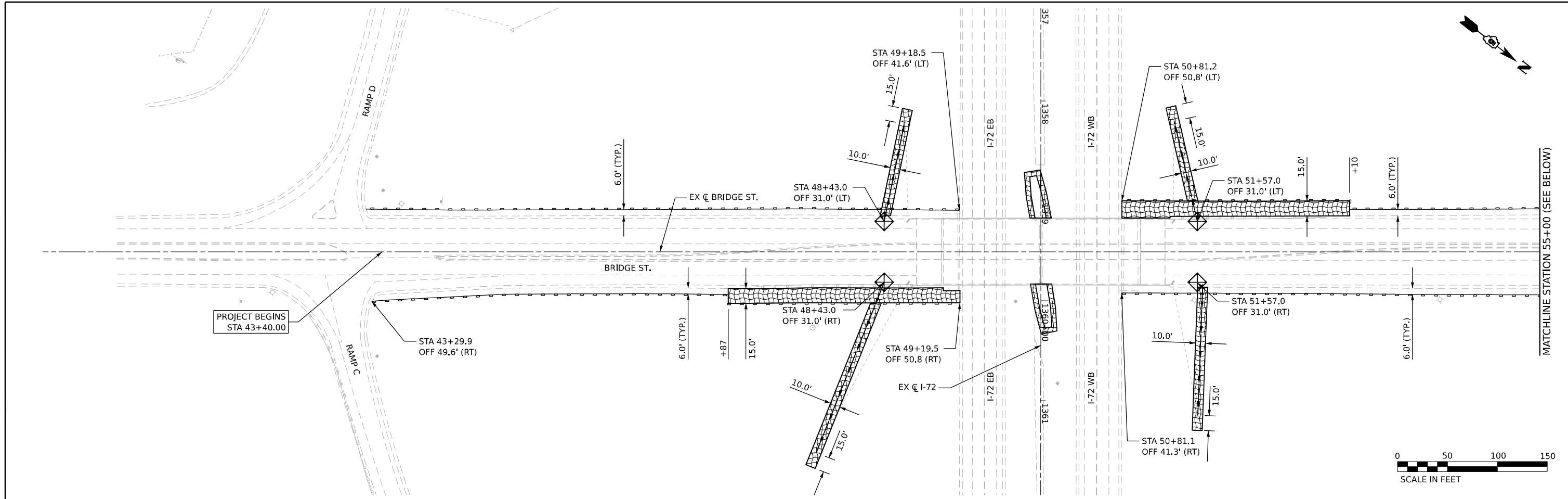
SCALE: 1"=20'

SHEET 13 OF 14 SHEETS




STA. 53+50 TO STA. 59+50

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	(74-68)BR	PIATT	105	35
CONTRACT NO. 70D61				
ILLINOIS FED. AID PROJECT				





**LEGEND**

-  - INLET FILTERS (28000510)
-  - PERIMETER EROSION BARRIER (28000400)
-  - EROSION CONTROL BLANKET (25100630) AND SEEDING, CLASS 2A (25000210)

**NOTES**

1. ALL ESC MEASURES WILL BE MAINTAINED IN ACCORDANCE WITH THE IDOT EROSION AND SEDIMENT CONTROL FIELD GUIDE FOR CONSTRUCTION INSPECTION FOUND ON THE CONSTRUCTION TAB AT: (HTTP://WWW.IDOT.ILLINOIS.GOV/TRANSPORTATION-SYSTEM/ENVIRONMENT/EROSION-AND-SEDIMENT-CONTROL).
2. THE CONTRACTOR WILL ASSUME RESPONSIBILITY FOR MAINTENANCE OF ALL SOIL EROSION CONTROL DURING CONSTRUCTION.
3. THE CONTRACTOR SHALL CHECK ALL ESC MEASURES WEEKLY AND AFTER EACH RAINFALL, 0.5 INCHES OR GREATER IN A 24 HOUR PERIOD, OR EQUIVALENT SNOWFALL, ADDITIONALLY DURING WINTER MONTHS, ALL MEASURES SHOULD BE CHECKED BY THE CONTRACTOR AFTER EACH SIGNIFICANT SNOWMELT.
4. ANY LOOSE MATERIAL DEPOSITED IN THE FLOW LINE OF DRAINAGE STRUCTURES, WHICH OBSTRUCTS THE NATURAL FLOW OF WATER, SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. PRIOR TO ACCEPTANCE OF THE IMPROVEMENT, ALL DRAINAGE STRUCTURES SHALL BE FREE OF DIRT AND DEBRIS. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED AS INCIDENTAL.
6. ALL WORK ASSOCIATED WITH INSTALLATION AND MAINTENANCE OF STABILIZED CONSTRUCTION ENTRANCES ARE INCIDENTAL TO THE CONTRACT.
7. SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE COMMENCEMENT OF HYDROLOGICAL DISTURBANCE OF UPLAND AREA
8. STORM SEWERS, SCUPPERS, ETC. THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED BY AN APPROPRIATE SEDIMENT CONTROL MEASURE.
9. ALL TEMPORARY SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER THE FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED.
10. ALL TEMPORARY SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PER THE APPROPRIATE TEMPORARY TRAFFIC CONTROL STAGE WHERE DISTURBANCE WILL AFFECT THE ACTIVE HYDROLOGIC ELEMENT.

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**BRIDGE ST. OVER I-72  
EROSION CONTROL PLAN**

SCALE: 1" = 50' SHEET 1 OF 1 SHEETS STA. 43+40.00 TO STA. 56+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	(74-68)BR	PIATT	105	37
CONTRACT NO. 70D61				

ILLINOIS FED. AID PROJECT

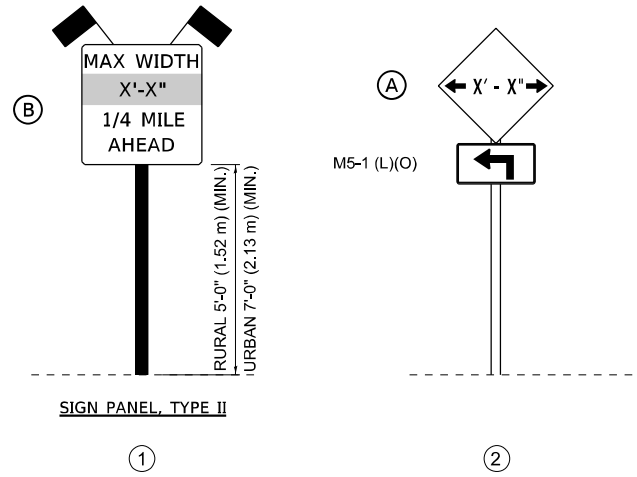
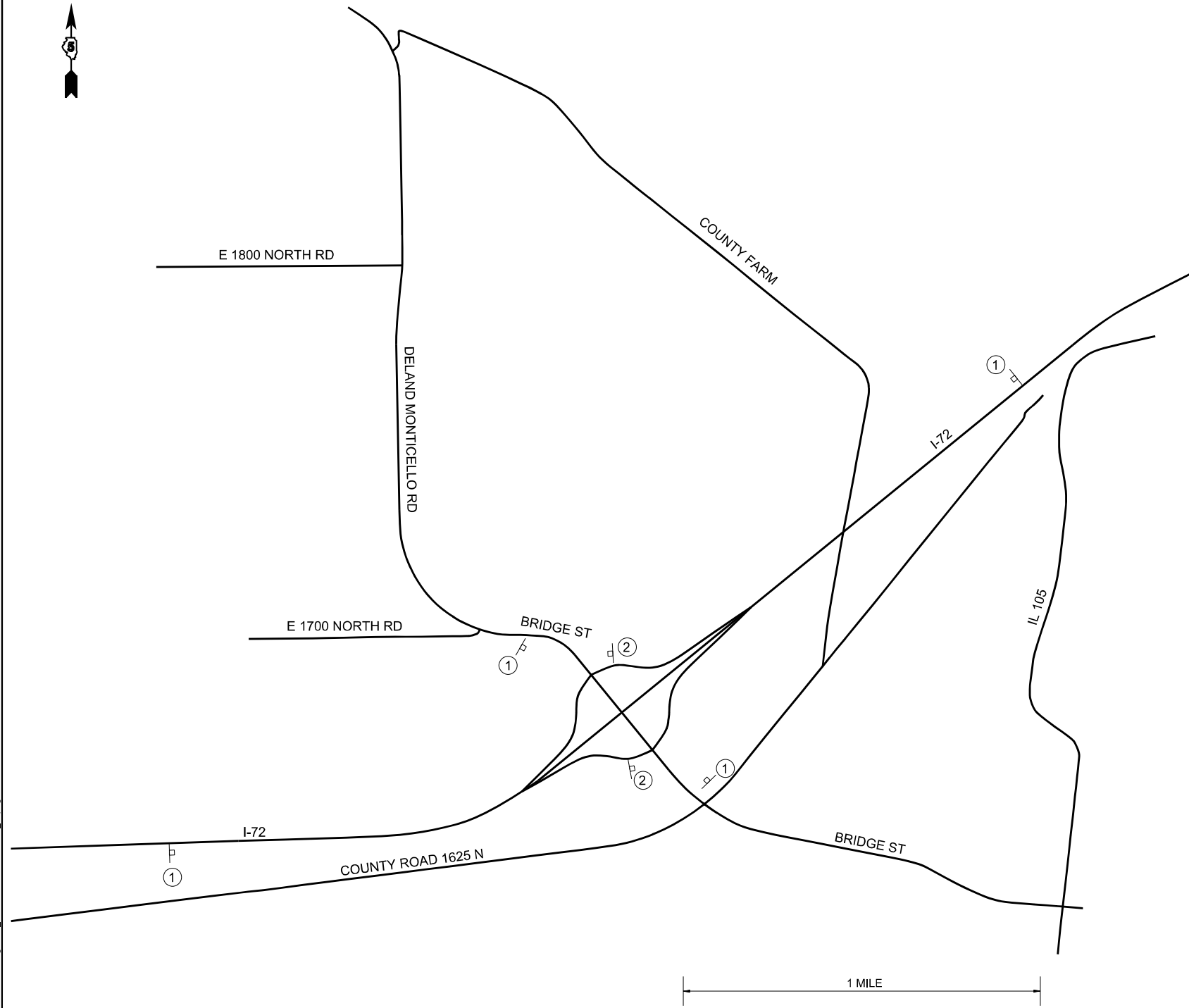
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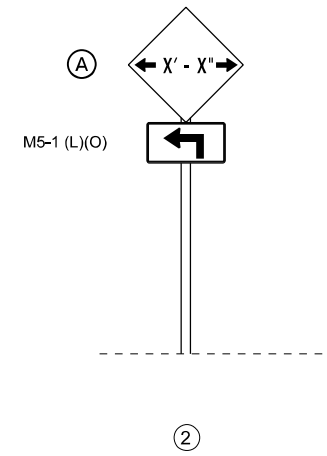
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 DESIGNED - VV  
 DRAWN - VV  
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 CHECKED - EIG  
 PLOT DATE = 03/21/2023  
 DATE - 3/21/2023

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

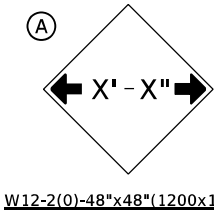
10 S. LaSalle Street, Suite 210  
 Chicago, IL 60603  
 773-462-0000  
 www.bowman.com



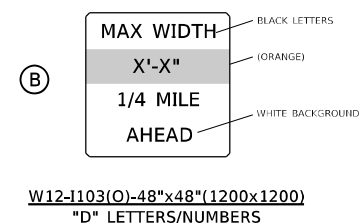
SIGN PANEL, TYPE II  
①



②



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



W12-1103(O)-48"x48"(1200x1200)  
"D" LETTERS/NUMBERS

**GENERAL NOTES**

1. ALL TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, ERECTED AND MAINTAINED BY THE CONTRACTOR.
2. ALL (B) SIGNS SHALL HAVE FLAGS INSTALLED UNLESS OTHERWISE DIRECTED.
3. LOCATIONS OF TRAFFIC CONTROL DEVICES MAY BE ADJUSTED BY THE ENGINEER.
4. ALL TRAFFIC CONTROL SHOWN ON THIS SHEET SHALL BE PAID FOR AT THE CONTRACT LUMP SUM PRICE FOR WIDTH RESTRICTION SIGNING.
5. ALL SIGNS SHALL BE POST MOUNTED UNLESS OTHERWISE DIRECTED.
6. ALL SIGNS SHOWN ORANGE (O) SHALL BE FLUORESCENT ORANGE.
7. ALL SIGNS SHOWN SHALL CONSIST OF THE CURRENT RETROREFLECTIVE SHEETING REQUIREMENTS AS OUTLINED IN SECTION 1106.01 OF THE STANDARD SPECIFICATIONS BOOK.
8. SIGN PANELS, TYPE (B) SHALL BE PLACED ON I-72 IN MEDIAN AND OUTSIDE SHOULDER APPROXIMATELY 1 MILE EAST AND ONE MILE WEST OF BRIDGE STREET

MODEL: Unnamed/1/14 - BRIDGE STREET OVER I-72 (Sheet)  
 FILE NAME: 202303.PTB 02-303 - Superstructure ReplacementDOT202302.PTB 02-303 sign/CAD\_Sheets/027081-substructure\_max.dgn

USER NAME = BenB	DESIGNED -	REVISED -
DRAWN -	REVISOR -	REVISION -
PLOT SCALE = 0.16666633' / in.	CHECKED -	REVISOR -
PLOT DATE = 3/23/2023	DATE -	REVISION -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**BRIDGE STREET OVER I-72**  
**WIDTH RESTRICTIVE SIGNING**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	(74-68)BR	PIATT	105	38
CONTRACT NO. 70D61				
ILLINOIS FED. AID PROJECT				

### INTERSTATE DETOUR USING ENTRANCE AND EXIT RAMP

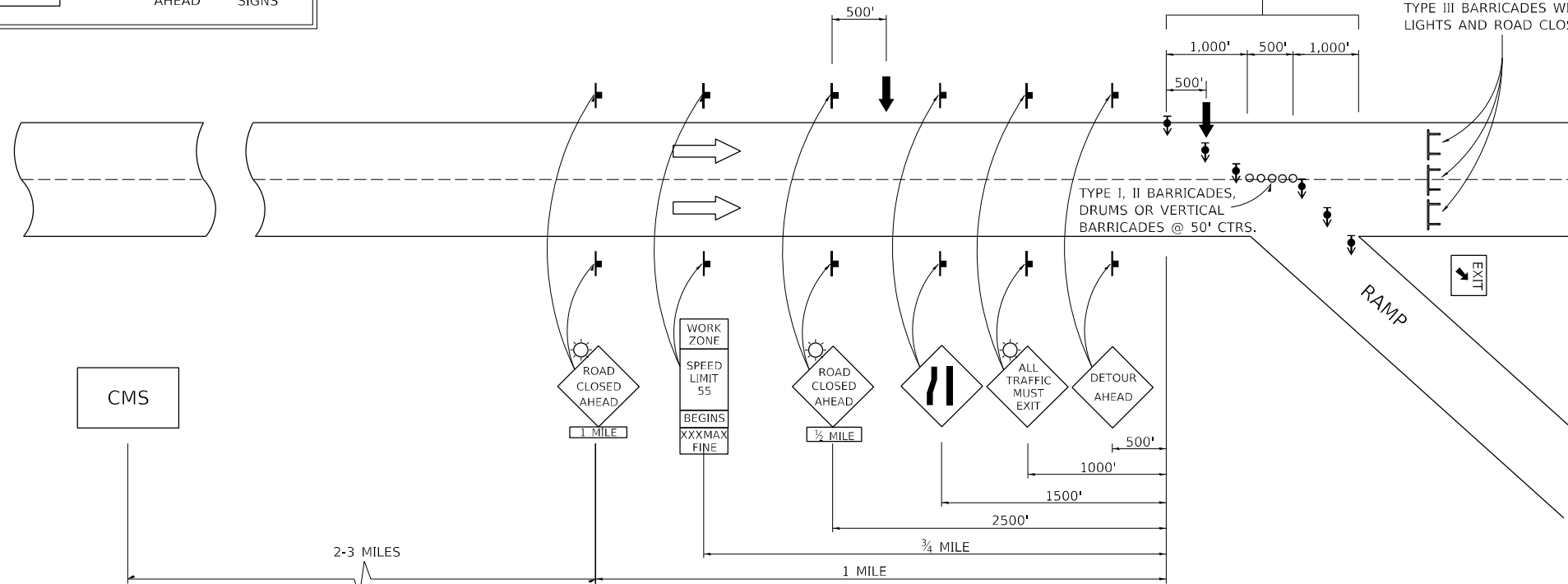
A CHANGEABLE MESSAGE SIGN SHALL BE USED IN ADVANCE OF SIGNING TO WARN OF CLOSURE

CMS	ROAD CLOSED	2-3 MILES AHEAD	FOLLOW DETOUR SIGNS
-----	-------------	-----------------	---------------------

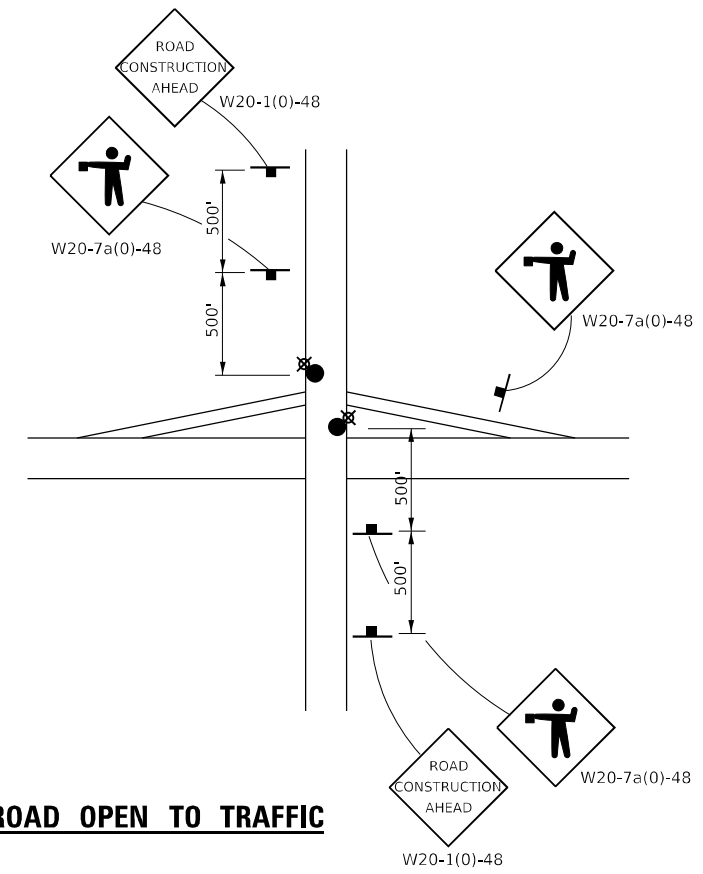
DIRECTIONAL BARRICADES WITH STEADY BURNING LIGHTS AT 50' (15 m) CTS. IN TAPER. DRUMS WITH STEADY BURNING LIGHTS IN TANGENT (BETWEEN TAPERS) AT 100' (30 m) CTS.

FOR OFF PEAK CLOSURES LESS THAN 24 HOURS, THE TANGENT SECTION MAY BE OMITTED BY APPROVAL OF THE ENGINEER.

TYPE III BARRICADES WITH FLASHING LIGHTS AND ROAD CLOSED SIGNS



SYMBOLS	
	ARROW BOARD
	SIGN
	DRUM W/STEADY BURNING LIGHT
	TYPE III BARRICADE
	DIRECTIONAL BARRICADE W/STEADY BURNING LIGHT
	LIGHTED FLAGGER STATIONS



### CROSSROAD OPEN TO TRAFFIC

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

MODEL: I72 - Plan 1 (Rev. 4/11) FILE NAME: J:\2010\PTB 02-2010\PTB 02-2010\Superstructure Replacement\DOT10\102 PTB 02-2010\Sign\CAD\_Sheets\057085-eh-hdr\signa\_detail\_I72.dgn

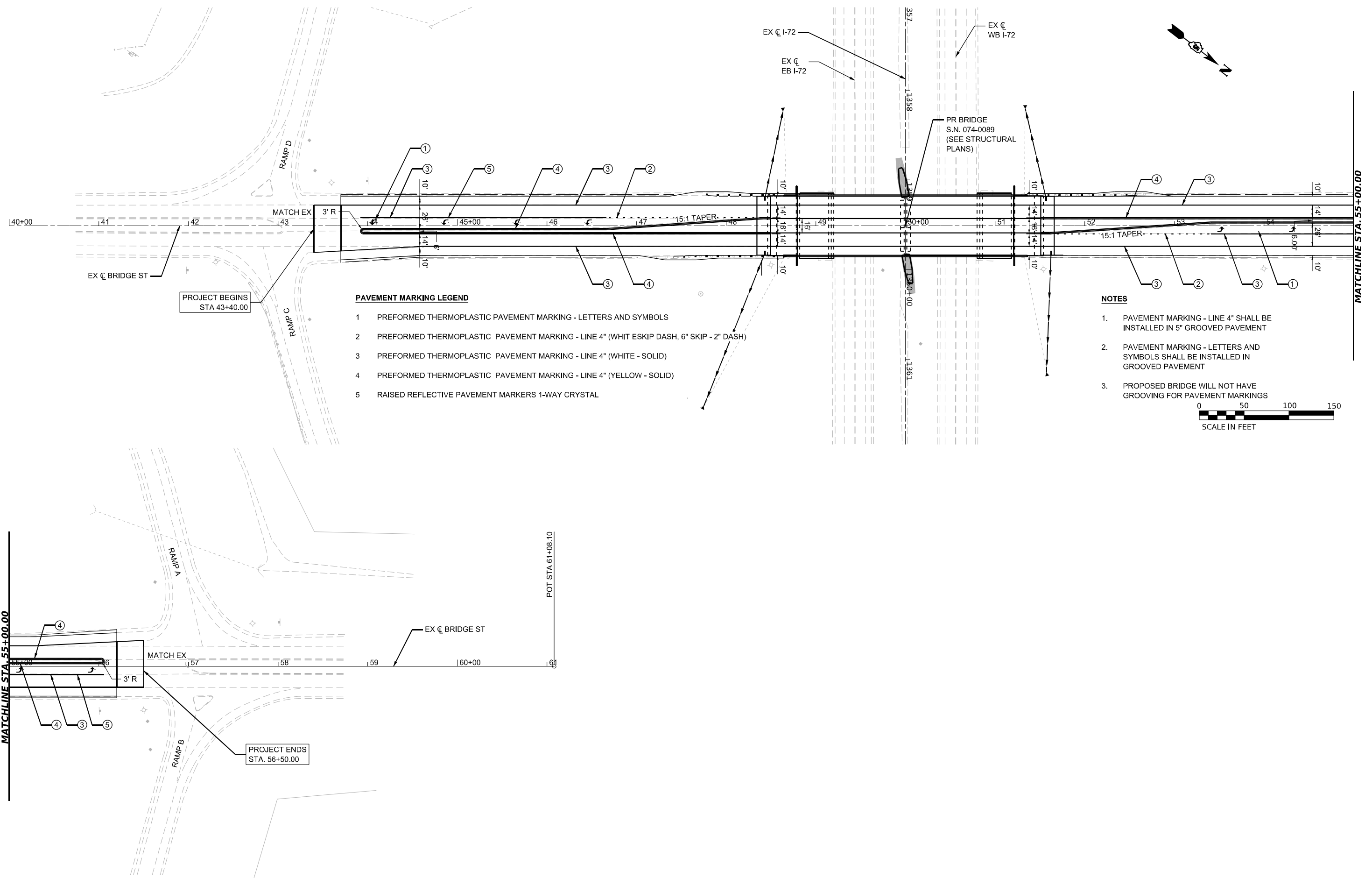
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	DRAWN -	REVISED -
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PLOT DATE = 3/23/2023	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL & PROTECTION FOR TEMPORARY DETOUR  
DISTRICT 5 DETAIL NO. X7011005

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	(74-68)BR	PIATT	105	39
CONTRACT NO. 70D61				
ILLINOIS FED. AID PROJECT				

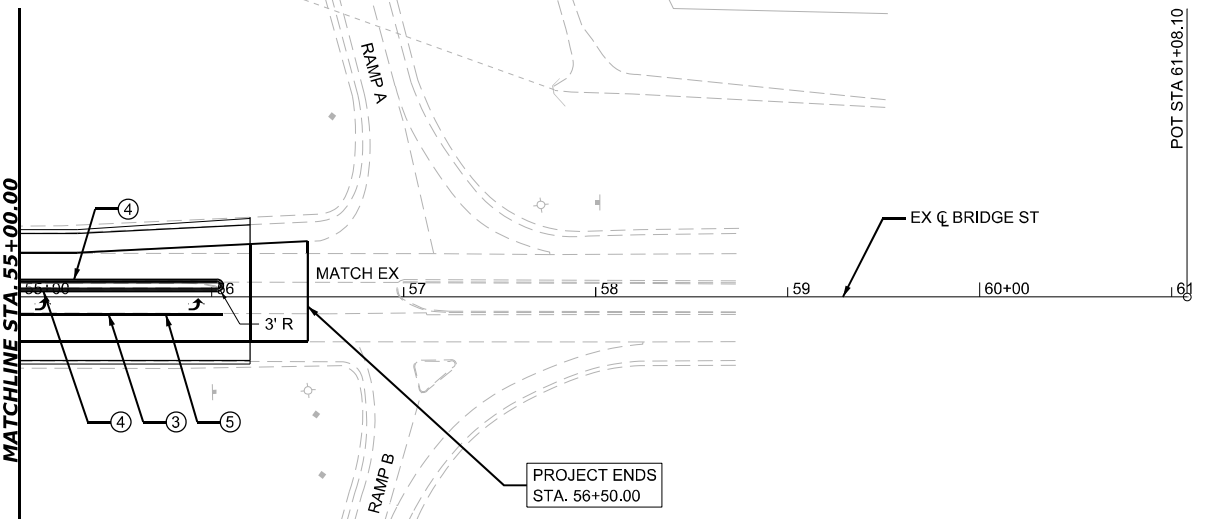
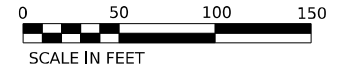


**PAVEMENT MARKING LEGEND**

- 1 PREFORMED THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS
- 2 PREFORMED THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHIT ESKIP DASH, 6" SKIP - 2" DASH)
- 3 PREFORMED THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE - SOLID)
- 4 PREFORMED THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW - SOLID)
- 5 RAISED REFLECTIVE PAVEMENT MARKERS 1-WAY CRYSTAL

**NOTES**

- 1. PAVEMENT MARKING - LINE 4" SHALL BE INSTALLED IN 5" GROOVED PAVEMENT
- 2. PAVEMENT MARKING - LETTERS AND SYMBOLS SHALL BE INSTALLED IN GROOVED PAVEMENT
- 3. PROPOSED BRIDGE WILL NOT HAVE GROOVING FOR PAVEMENT MARKINGS



MODEL: BRIDGE\_ST (15inx41)  
 FILE NAME: J:\2020\102\_PTB 197-4031\_Superstructure\_Redfacement\DOT\102\_PTB 197-4031.dgn\CAD\_Sheets\DS70061-Subpaw\_mrk.dgn

**GREENE & BRADFORD, INC.**  
 OF SPRINGFIELD  
CONSULTING ENGINEERS  
 2001 SOUTH MAIN STREET  
 SPRINGFIELD, ILLINOIS 62761  
 PROFESSIONAL PERSON FROM NO. 124233179  
 PROFESSIONAL SEAL: 03/01/1990 FROM NO. 124233179  
 (217) 79-5884, 79-5427 (F)

USER NAME	= BenB
PLOT SCALE	= 0.16666633 1/ in.
PLOT DATE	= 4/14/2023

DESIGNED -	GRG	REVISED -	4/13/2023
DRAWN -	BKB	REVISED -	
CHECKED -	GRG	REVISED -	
DATE -	3/23/2023	REVISED -	

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**BRIDGE STREET OVER I-72**  
**PAVEMENT MARKING PLAN**

SCALE: 1"=50'      SHEET 1 OF 1 SHEETS      STA. 40+00      TO STA. 61+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	(74-68)BR	PIATT	105	40
CONTRACT NO. 70D61				
ILLINOIS FED. AID PROJECT				



Benchmark: Survey Marker on top of the concrete median at the south side of the bridge along the centerline of Bridge Street, STA. 48+00 - Elevation = 695.45.

Existing Structure: S.N. 074-0065 was originally built in 1975 by the state of Illinois as FAI Route 72, Section 74-68HB-1 at STA. 1359+51.04 at Monticello in Piatt County, IL. The existing superstructure is 2-span with nine 48" steel plate girders supporting an 8" R.C. deck. The superstructure is supported by two sandfilled, vaulted abutments and one multi column trapezoidal pier. The existing structure measures 250'-4" from back to back of approach bents and 68'-0" out to out of deck. The horizontal clearance is 64'-6" from face to face of parapet including 24'-3" of clear roadway for each direction and a 16'-0" vaulted median. The structure underwent repairs in April 2009 to install protective shield and in May 2019 for a full-depth patch and several chip sealing of the HMA wearing surface. During new construction, traffic to be maintained utilizing Stage Construction.



*Kashif Ali N. Syed*

Dated 04/20/2023

Kashif Ali N. Syed  
Licensed Structural Engineer  
In Illinois No. 081-007659  
Expires: 11/30/2024

**LOADING HL-93**  
Allow 50#/sq. ft. for future wearing surface.

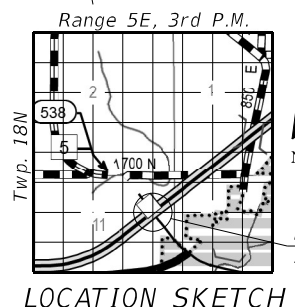
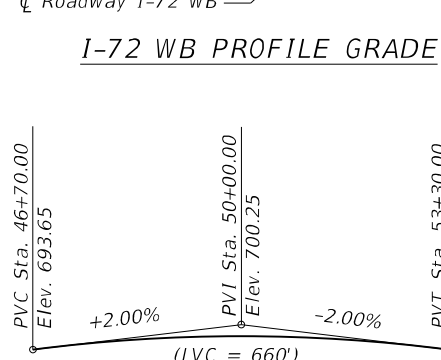
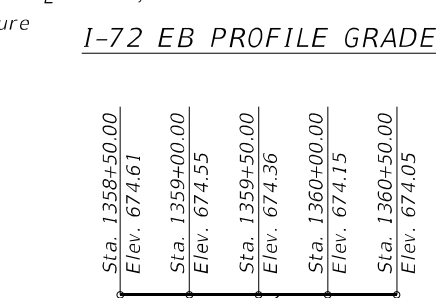
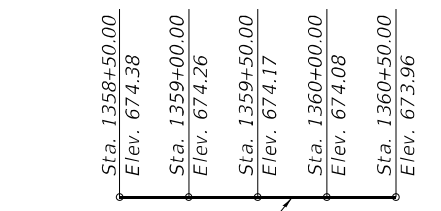
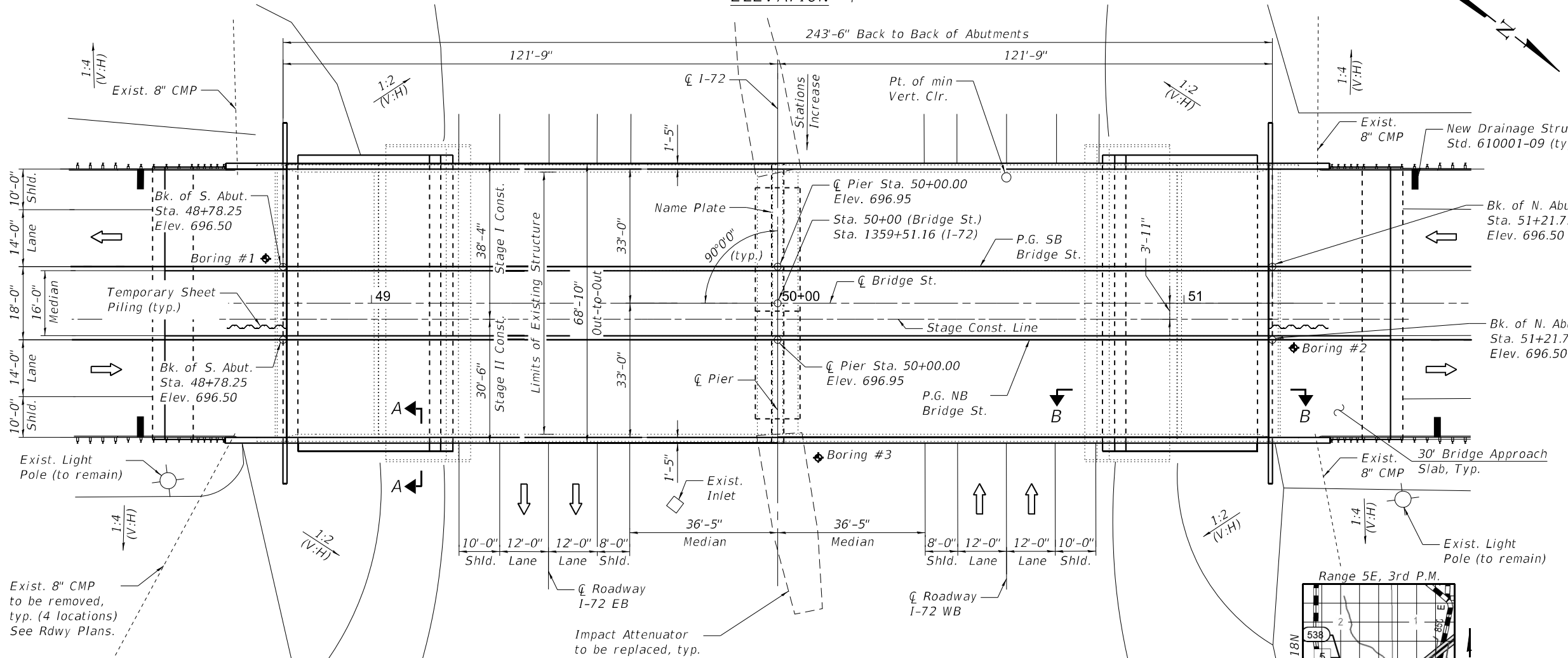
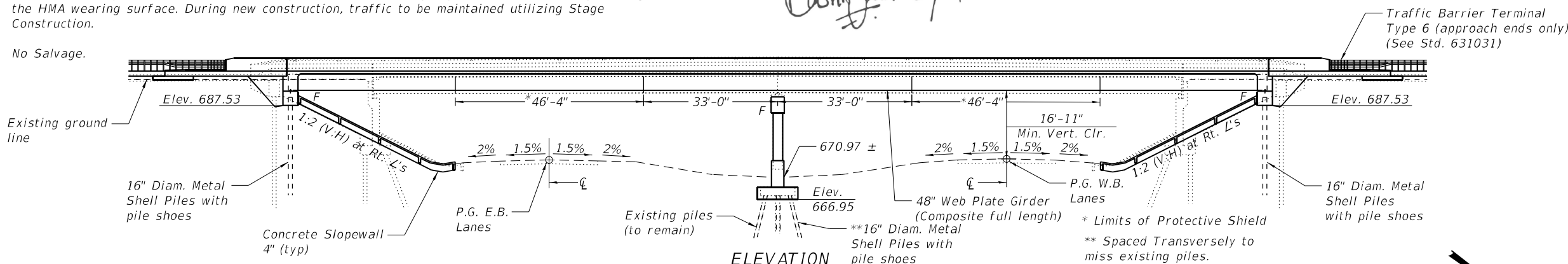
**SEISMIC DATA**  
Seismic Performance Zone (SPZ) = 1  
Design Spectral Acceleration at 1.0 sec. (SD1) = 0.142g  
Design Spectral Acceleration at 0.2 sec. (SDS) = 0.250g  
Soil Site Class = D

**DESIGN SPECIFICATIONS**  
2020 AASHTO LRFD Bridge Design Specifications, 9th Edition

**DESIGN STRESSES**  
FIELD UNITS

$f'_c = 3,500$  psi (Substructure)  
 $f'_c = 4,000$  psi (Superstructure)  
 $f_y = 60,000$  psi (Reinforcement)  
 $f_y = 50,000$  psi (M270 Grade 50)

No Salvage.



PLAN

**APPROVED**  
For Structural Adequacy Only  
*Jan F. [Signature]*  
Engineer of Bridges & Structures

For Section A-A and B-B, see sheet 2 of 31

MODEL: 0740089-70D61-TSL-001  
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**GREENE & BRADFORD, INC.**  
OF SPRINGFIELD  
CONSULTING ENGINEERS  
3501 CINCINNATI DRIVE  
SPRINGFIELD, ILLINOIS 62771  
PROFESSIONAL DESIGN FIRM NO. 18-00179  
PROFESSIONAL SEAL NO. 081-007659  
(217) 799-8844, 799-4222 (F)

USER NAME = kashifs  
DESIGNED - MAC  
CHECKED - KAS  
DRAWN - PG  
CHECKED - KAS  
PLOT SCALE =  
PLOT DATE = 4/20/2023

DESIGNED - MAC  
CHECKED - KAS  
REVISOR -  
REVISOR -  
REVISOR -  
REVISOR -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**GENERAL PLAN AND ELEVATION**  
**STRUCTURE NO. 074-0089**

SHEET 1 OF 31 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	(74-68)BR	PIATT	105	41
CONTRACT NO. 70D61				
ILLINOIS FED. AID PROJECT				

**STRUCTURE INDEX OF SHEETS**

SHEET NO.	DESCRIPTION
1	General Plan & Elevation
2	General Notes, Index of Sheets & Total Bill of Material
3-4	Stage Construction Details
5	Footing Layout and Temporary Sheet Piling
6	Temporary Concrete Barrier for Stage Construction
7	Top of Slab Elevations - I
8	Top of Slab Elevations - II
9	Top of Slab Elevations - III
10	Top of Approach Slab Elevations
11	Superstructure
12	Superstructure Details
13	Diaphragm Details
14-15	Bridge Approach Slab Details
16	Structural Steel
17-18	Structural Steel Details
19	Bearing Details
20	South Abutment - Stage I Construction
21	South Abutment - Stage II Construction
22	North Abutment - Stage I Construction
23	North Abutment - Stage II Construction
24	Abutment Details
25	Pier
26	Pier Details
27	Metal Shell Piles Details
28	Bar Splicer Assembly and Mechanical Splicer Details
29-31	Soil Boring Logs

**ABBREVIATIONS**

Abut.	Abutment	Elev.	Elevation	SB	Southbound
@	At	Exist.	Existing	SE	Southeast
B.F.	Back Face	Exp.	Expansion	Shldr.	Shoulder
Bk.	Back	F.F.	Front Face	Spa.	Spaces
Brg.	Bearing	Max.	Maximum	Std.	Standard
Btw.	Between	Min.	Minimum	Sta.	Station
CL	Centerline	N.	North	SW	Southwest
Clr.	Clearance	NB	Northbound	Typ.	Typical
Cts.	Centers	NE	Northeast	U.N.O.	Unless Noted Otherwise
Const.	Construction	No.	Number	Vert.	Vertical
Ø	Diameter	Ø	Diameter	W.	West
E.	East	P.G.	Profile Grade		
E.F.	Each Face	S.	South		

**TOTAL BILL OF MATERIAL**

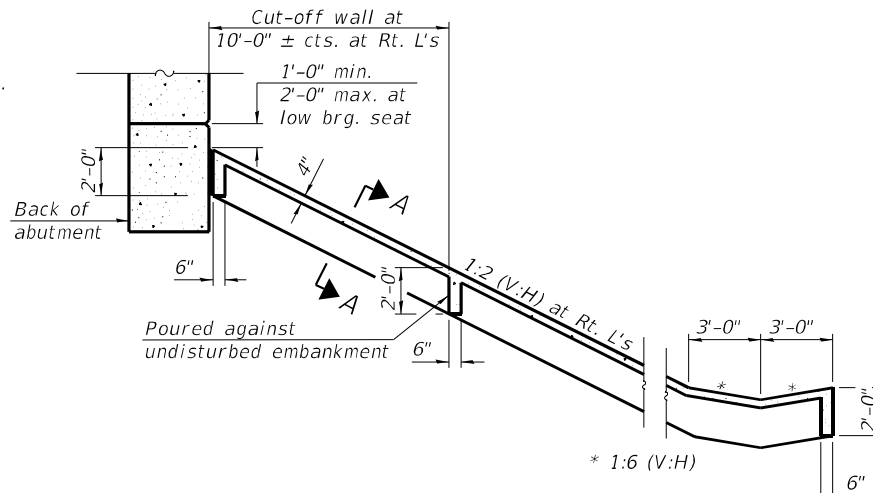
ITEM	UNIT	SUPER	SUB	TOTAL
Removal of Existing Structures	Each	1	-	1
Protective Shield	Sq. Yd.	709	-	709
Structure Excavation	Cu. Yd.	-	586	586
Concrete Structures	Cu. Yd.	41.4	236.9	278.3
Concrete Superstructure	Cu. Yd.	671.5	-	671.5
Bridge Deck Grooving	Sq. Yd.	1475	-	1475
Protective Coat	Sq. Yd.	2466	-	2466
Concrete Superstructure (Approach Slab)	Cu. Yd.	191.2	-	191.2
Furnishing and Erecting Structural Steel	L. Sum	1	-	1
Stud Shear Connectors	Each	5697	-	5697
Reinforcement Bars, Epoxy Coated	Pound	226770	51350	278120
Bar Splicers	Each	1137	97	1234
Mechanical Splicers	Each	-	168	168
Slope Wall, 4 Inch	Sq. Yd.	-	685	685
Furnishing Metal Shell Piles 16" X 0.375"	Foot	-	2049	2049
Driving Piles	Foot	-	2049	2049
Test Pile Metal Shells	Each	-	3	3
Pile Shoes	Each	-	54	54
Name Plates	Each	-	1	1
Anchor Bolts, 1"	Each	-	36	36
Anchor Bolts, 1½"	Each	-	18	18
Temporary Sheet Piling	Sq. Ft.	-	184	184
Temporary Support System	Each	-	1	1
Granular Backfill for Structures	Cu. Yd.	-	284	284
Geocomposite Wall Drain	Sq. Yd.	-	138	138
Pipe Underdrains for Structure, 4"	Foot	-	186	186

STATION 50+00  
 BUILT 202\_ BY  
 STATE OF ILLINOIS  
 FAI-72 SEC. (74-68)BR  
 LOADING HL-93  
 STRUCTURE NO. 074-0089

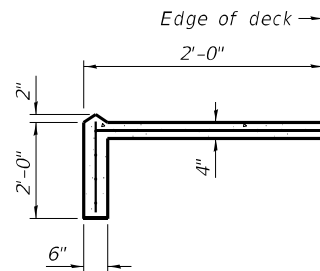
**NAME PLATE**  
 See Std. 515001

**GENERAL NOTES**

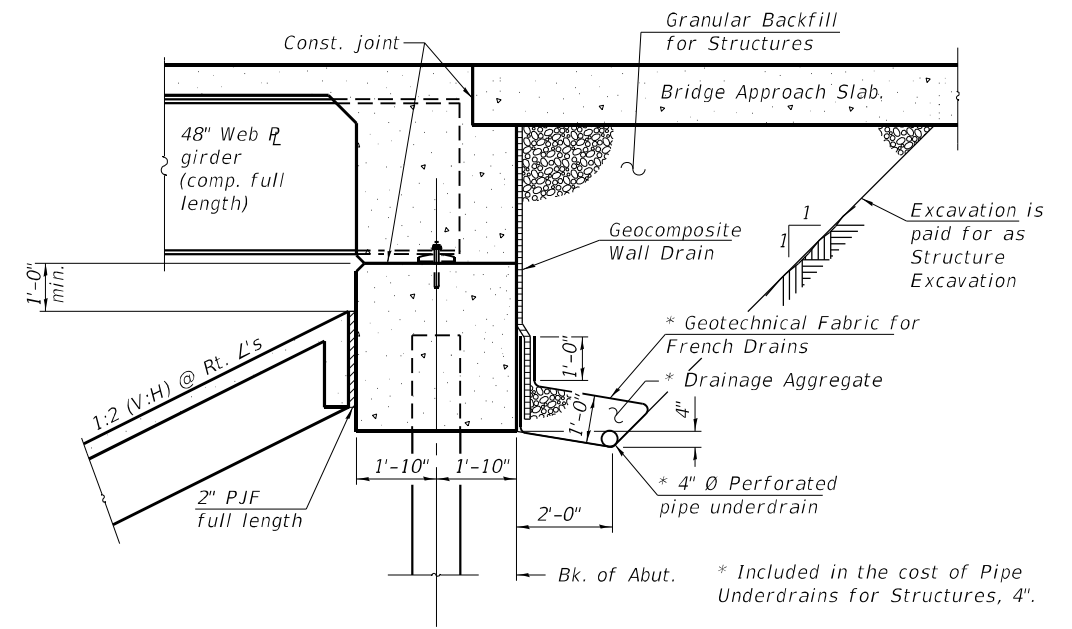
- Fasteners shall be ASTM F 3125 Grade A325 Type 1, hot dipped galvanized bolts. Bolts 7/8 in., holes 1 1/16 in., unless otherwise noted.
- Calculated weight of Structural Steel = 24,540 lb. (AASHTO M270 Gr. 36)  
 = 700,580 lb. (AASHTO M270 Gr. 50)
- No field welding is permitted except as specified in the contract documents.
- Reinforcement bars designated (E) shall be epoxy coated.
- If the Contractor elects to use cantilever forming brackets on the exterior beams or girders, the brackets shall be placed at the same locations as required for the hardwood blocks in Article 503.06(b) of the Standard Specifications. If additional cantilever forming brackets are required, hardwood blocking shall be wedged between the exterior and first interior beam at each of these additional bracket locations.
- Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of 1/8 inch (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.
- The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.
- All structural steel girders, interior cross frames, bearing stiffeners and connection plates shall be metallized. The metallized areas shall be painted with system 1. See Special Provision for Metallizing of Structural Steel. The structural steel for the Fixed Bearings shall be hot dipped galvanized according to the Special Provision for Hot Dip Galvanizing for Structural Steel.
- The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.
- Sloped wall shall be reinforced with welded wire fabric, 6" x 6" - W4.0 x W4.0, weighing 58 lbs. per 100 sq. ft.
- Slipforming of parapets shall not be permitted.
- S.N. 074-0065 has been determined, through testing, not to involve asbestos in the bituminous bridge deck wearing surface or waterproofing membrane as certified with BBS Form 2536 dated August 14, 2002.
- Removal of the existing sloped walls shall be included in the "Removal of Existing Structures".



**SECTION B-B**  
 (Section thru Concrete Slopewall)



**SECTION A-A**

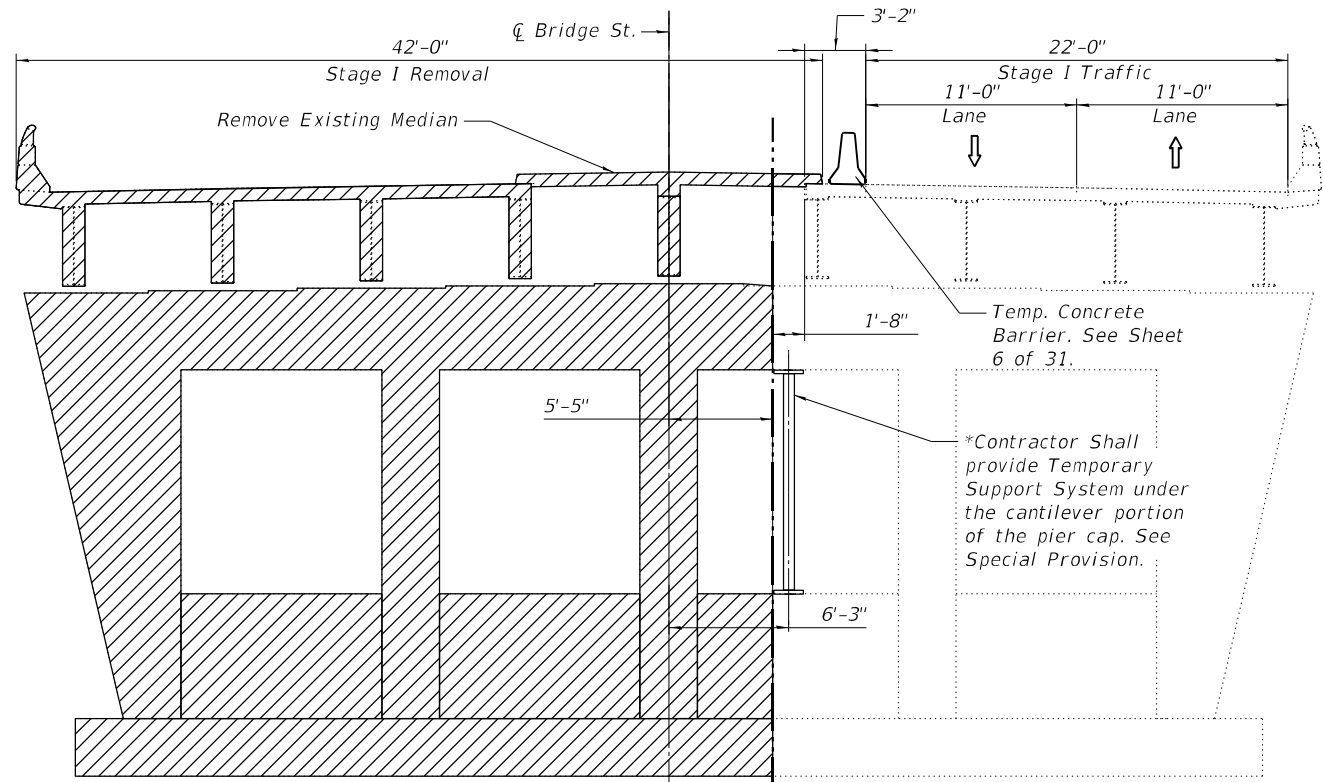


**SECTION THRU INTEGRAL ABUTMENT**  
 (Horiz. dim. @ Rt. L's)

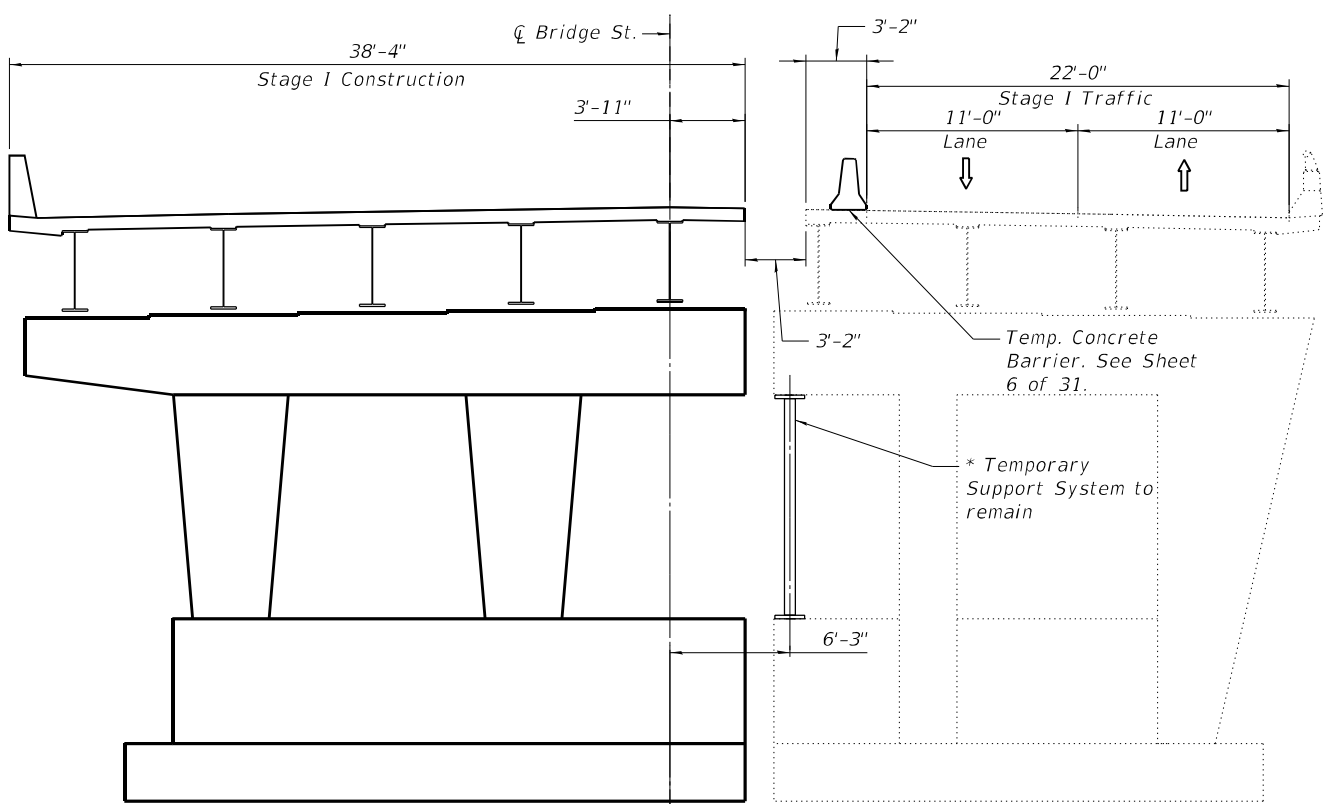
All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall be extended until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).

MODEL: 0740089-70D61-002  
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GREENE & BRADFORD, INC. OF SPRINGFIELD CONSULTING ENGINEERS 3501 CONSTITUTION DRIVE SPRINGFIELD, ILLINOIS 62771 PROFESSIONAL DESIGN FIRM NO. 181-002179 PROFESSIONAL SEAL NO. 001-002179-0001 (217) 799-8844, 799-4223 (F)	USER NAME = kashifs	DESIGNED - MAC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES, INDEX OF SHEETS & TOTAL BILL OF MATERIAL STRUCTURE NO. 074-0089	F.A.I. RTE. 72	SECTION (74-68)BR	COUNTY PIATT	TOTAL SHEETS 105	SHEET NO. 42
	PLOT SCALE =	DRAWN - PG	REVISED -			SHEET 2 OF 31 SHEETS	ILLINOIS	FED. AID PROJECT		
	PLOT DATE = 4/26/2023	CHECKED - KAS	REVISED -					CONTRACT NO. 70D61		



STAGE I REMOVAL



STAGE I CONSTRUCTION

\*The Contractor shall submit to IDOT, for review and approval, design of Temporary Support System prepared by a structural engineer licensed to practice in Illinois. Following Service point loads can be used for the design:

Dead Load = 291 kips  
 Live Load + Impact = 188 kips

Temporay Support System shall be installed before Stage I Removal.

- Note:
- All sections are looking North.
  - Hatching represents Removal of Existing Structures.
  - Piles are not shown for clarity.
  - For quantity of Temporary Concrete Barrier, See Rdwy Plans.

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Temporary Support System	EACH	1

MODEL: 0740065-70D61-TSL-003 - 1  
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 4/20/2023 8:42:49 PM

**GREENE & BRADFORD, INC.**  
 OF SPRINGFIELD  
 CONSULTING ENGINEERS  
 3501 CASCADILLA DRIVE  
 SPRINGFIELD, ILLINOIS 62711  
 PROFESSIONAL DESIGN FIRM NO. 181-001179  
 PROFESSIONAL SEAL NO. 000-000000000  
 (217) 794-8844, 794-2222 (F)

USER NAME = kashifs	DESIGNED - MAC	REVISED -
PLOT SCALE =	CHECKED - KAS	REVISED -
PLOT DATE = 4/20/2023	DRAWN - PG	REVISED -
	CHECKED - KAS	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

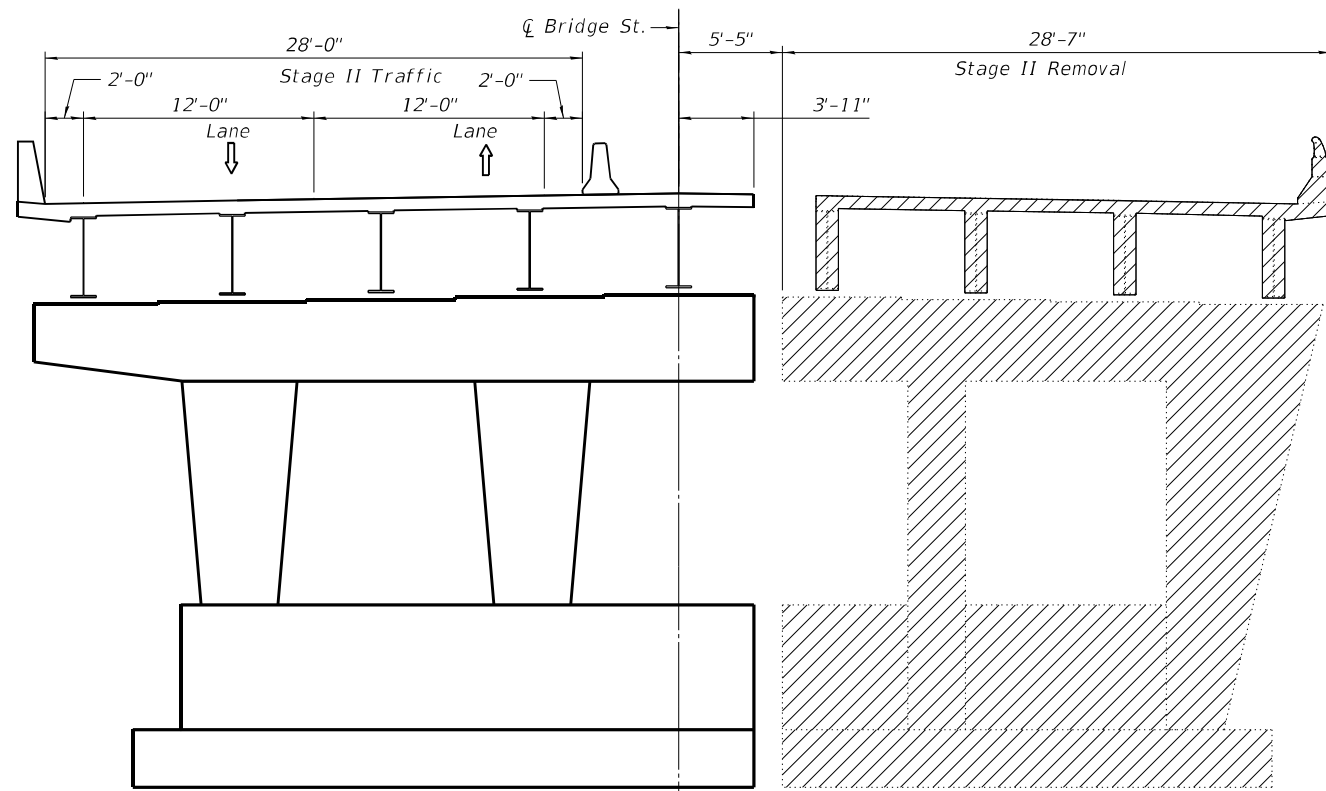
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**STRUCTURE NO. 074-0089**

SHEET 3 OF 31 SHEETS

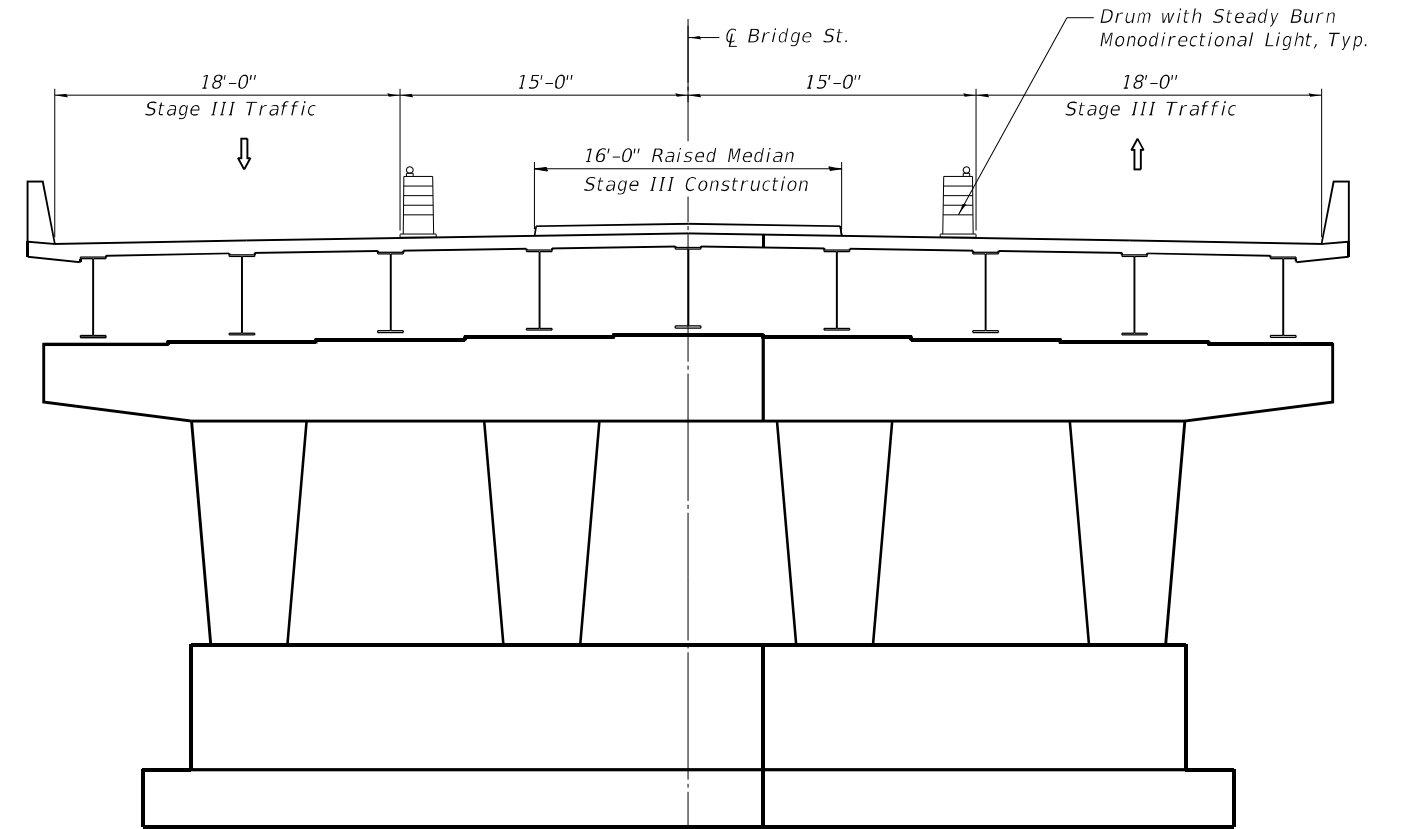
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72	(74-68)BR	PIATT	105	43

CONTRACT NO. 70D61

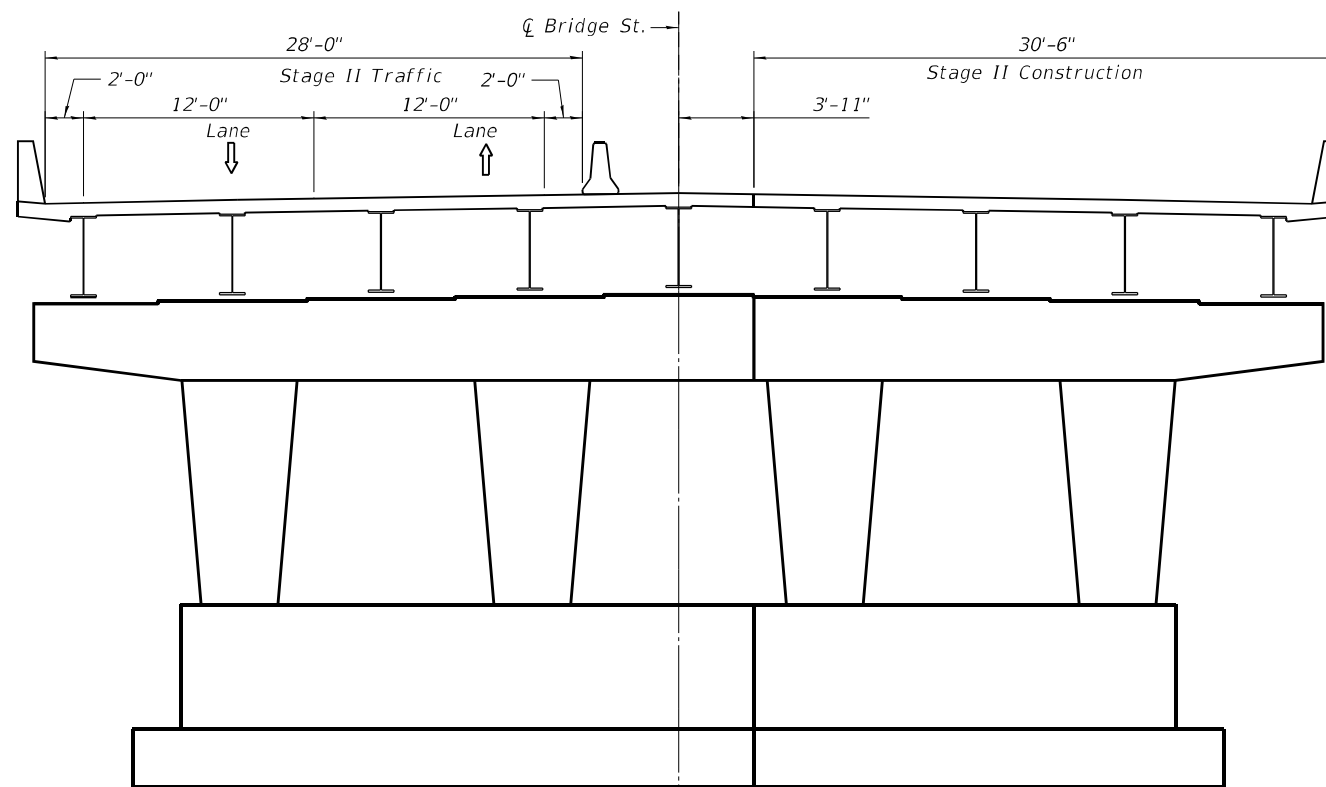
ILLINOIS FED. AID PROJECT



STAGE II REMOVAL



STAGE III CONSTRUCTION



STAGE II CONSTRUCTION

**Note:**

1. All sections are looking North
2. Hatching represents Removal of Existing Structures.
3. Piles are not shown for clarity.

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 SPRINGFIELD, ILLINOIS 62711  
 PROFESSIONAL DESIGN FIRM NO. 18-001179  
 PROFESSIONAL LICENSE NO. 0199-0199-00199  
 (217) 794-8844, 794-4233 (F)

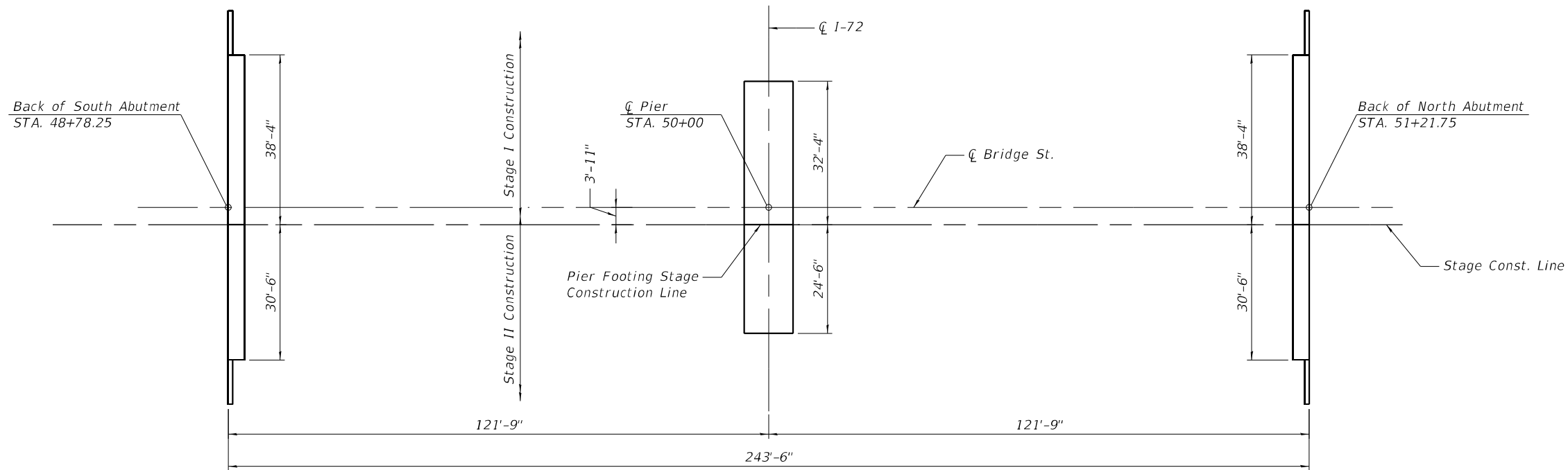
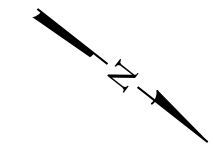
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		CHECKED	- KAS	REVISED	-

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

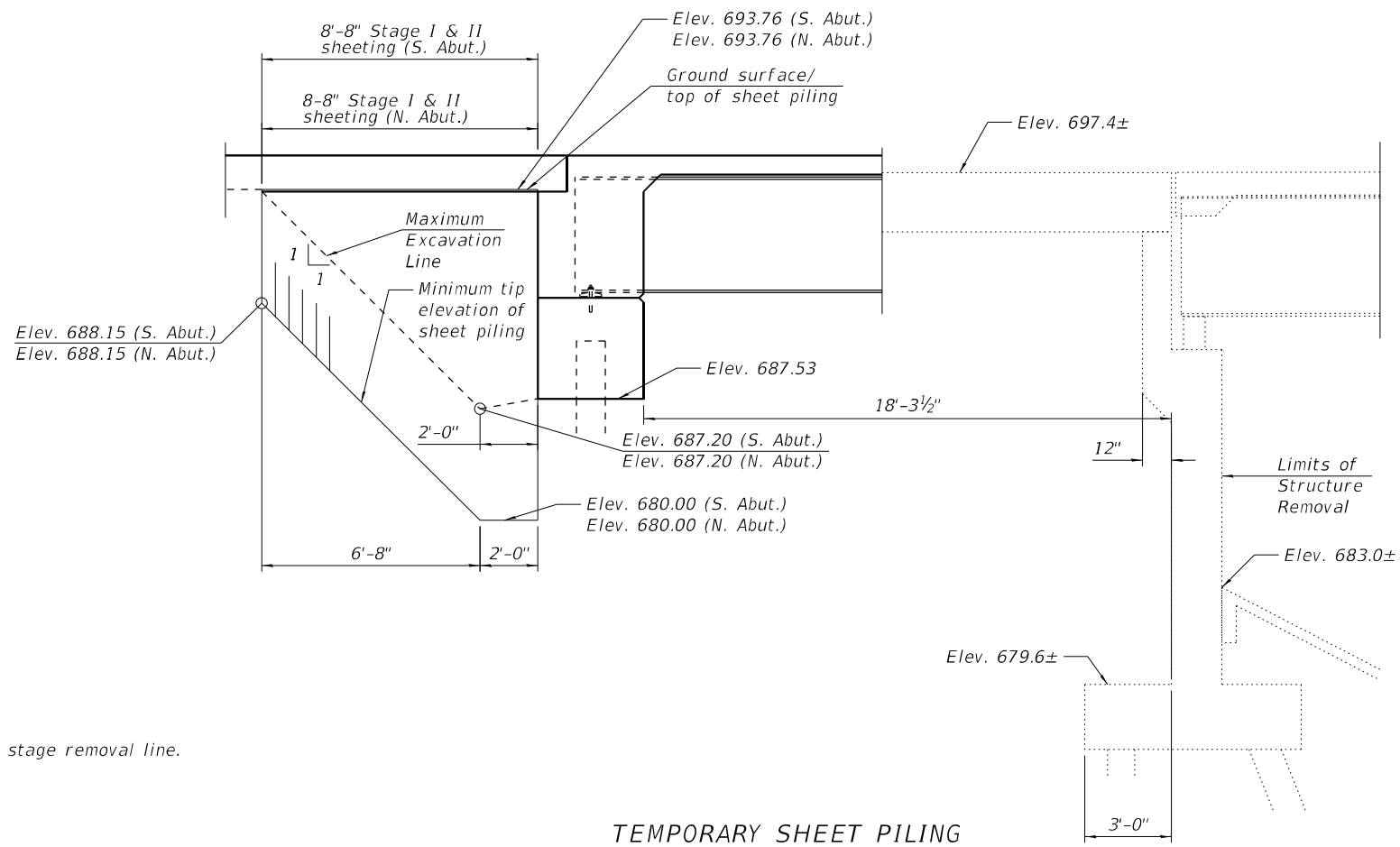
**STAGE CONSTRUCTION DETAILS  
STRUCTURE NO. 074-0089**

SHEET 4 OF 31 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	(74-68)BR	PIATT	105	44
CONTRACT NO. 70D61				
		ILLINOIS	FED. AID PROJECT	



**FOOTING LAYOUT**



**TEMPORARY SHEET PILING**

South Abutment Show - North Abutment Similar

Minimum Section Modulus  
3.74 in.<sup>3</sup>/ft (S. Abut.)  
3.74 in.<sup>3</sup>/ft (N. Abut.)

**BILL OF MATERIAL**

ITEM	UNIT	QUANTITY
Temporary Sheet Piling	Sq. Ft.	184

Note:  
All horizontal dimensions are given along stage removal line.

MODEL: 0740089-70D61-004  
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PTB 197-031 DOT 10102 PTB 197-031 Superstructure Replacement\DOT10102 PTB 197-031.dgn

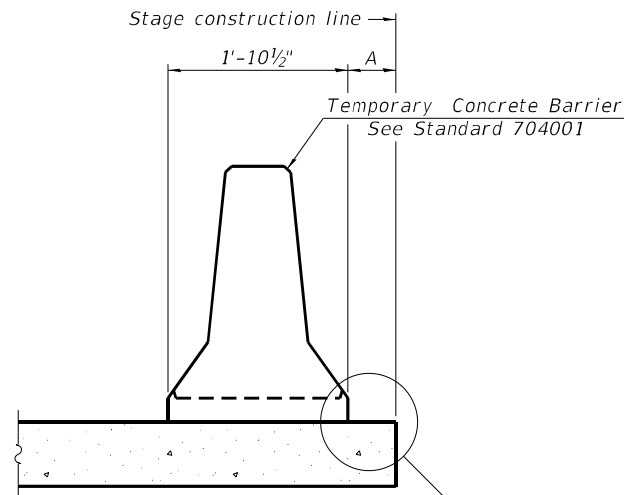
**GREENE & BRADFORD, INC.**  
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SPRINGFIELD, ILLINOIS 62711  
PROFESSIONAL DESIGN FIRM NO. 181-001179  
PROFESSIONAL SEAL NO. 001-001179 (219) 794-8844, 794-2223 (F)

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**STATE OF ILLINOIS**  
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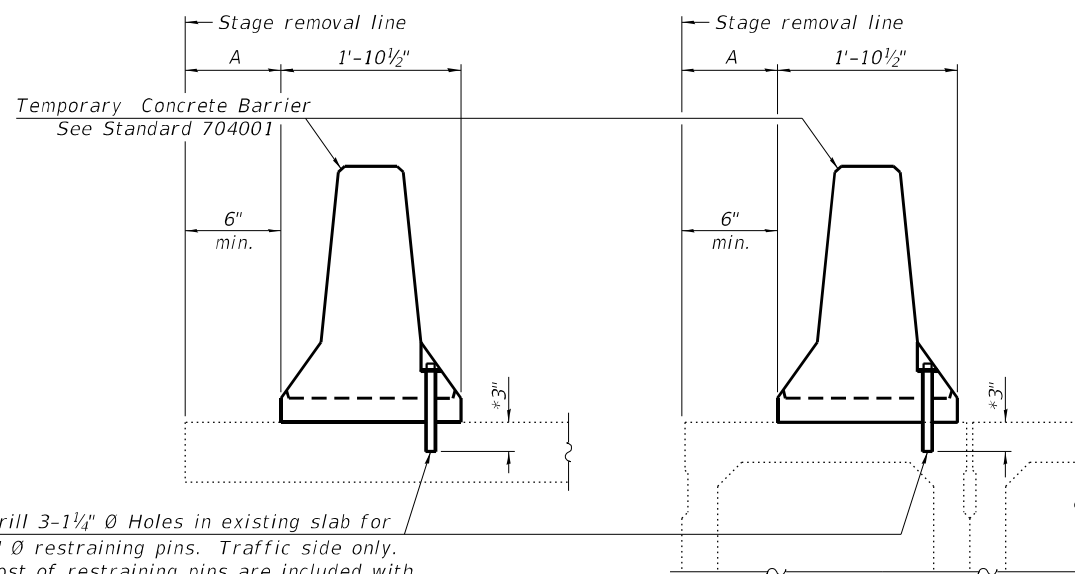
**FOOTING LAYOUT & TEMPORARY SHEET PILING**  
**STRUCTURE NO. 074-0089**  
SHEET 5 OF 31 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	(74-68)BR	PIATT	105	45
CONTRACT NO. 70D61				
ILLINOIS FED. AID PROJECT				



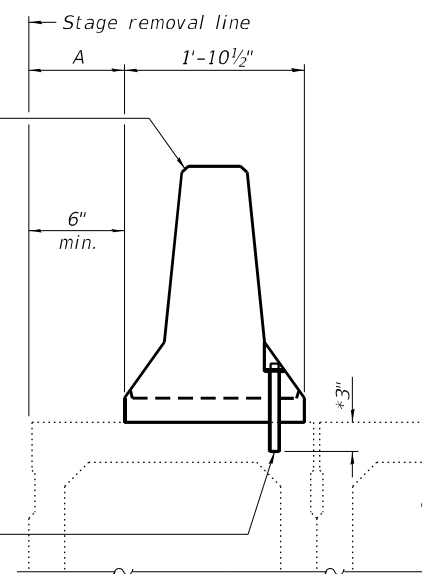
When "A" is 3'-1" or less, the temporary concrete barrier shall be restrained to the new slab according to Detail I, II or III. No restraint is required when "A" is greater than 3'-1". See Detail I, II or III

NEW SLAB OR NEW DECK BEAM



Drill 3-1/4" Ø Holes in existing slab for 1" Ø restraining pins. Traffic side only. Cost of restraining pins are included with Temporary Concrete Barrier. No restraint is required when "A" is greater than 3'-1".

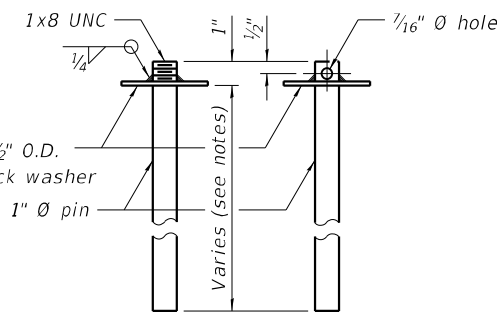
EXISTING SLAB



\* When hot-mix asphalt wearing surface is present, embedment shall be 3" plus the wearing surface depth.

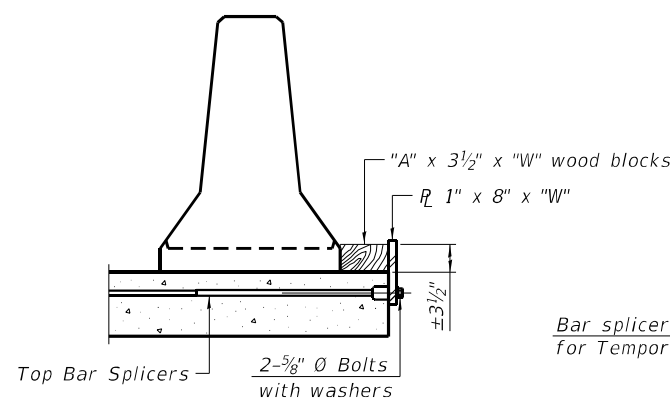
EXISTING DECK BEAM

SECTIONS THRU SLAB OR DECK BEAM

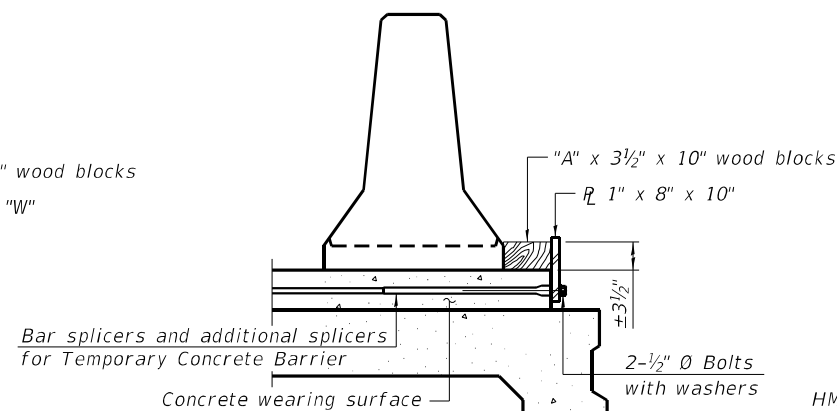


US Std. 1 1/16" I.D. x 2 1/2" O.D. x approx. 8 gauge thick washer

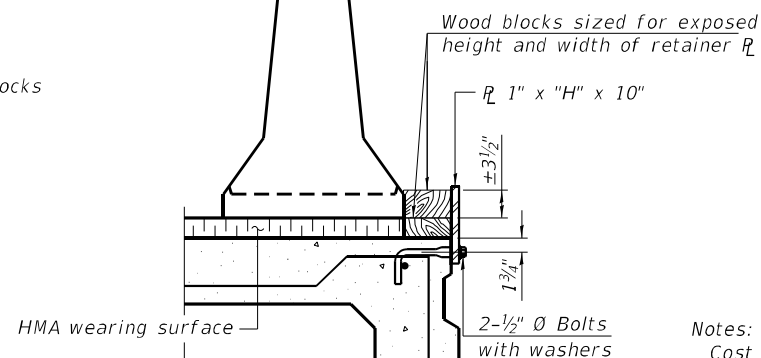
RESTRAINING PIN



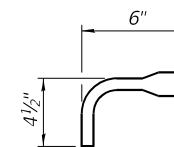
DETAIL I



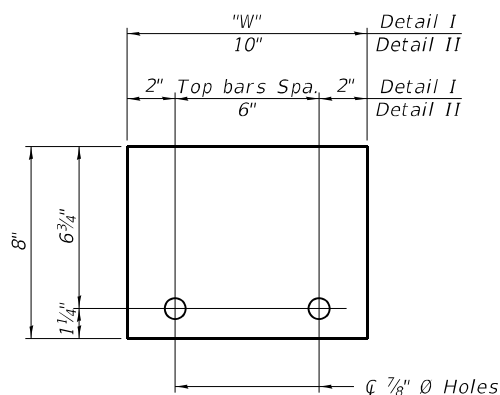
DETAIL II



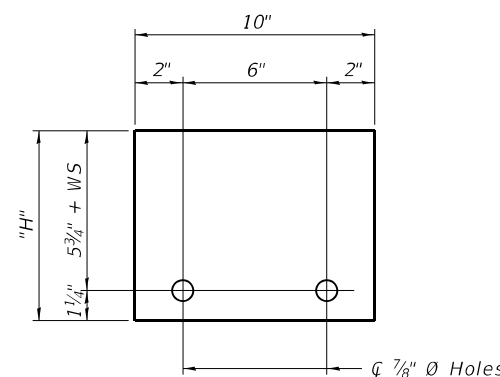
DETAIL III



BAR SPLICER FOR #4 BAR - DETAIL III



STEEL RETAINER R 1" x 8" x "W" (Detail I and II)



STEEL RETAINER R 1" x "H" x 10" (Detail III)

Notes:  
 Cost of retainer assembly is included with Temporary Concrete Barrier.  
 A retainer assembly shall be located at the approximate center of each temporary concrete barrier.  
 The retainer plate shall not be removed until the concrete on the adjacent stage is ready to be poured. For Detail III applications the retainer plate shall not be removed until just prior to placing the adjacent beam.  
 When the 'A' dimension is less than 1 1/2', the wood block shall be omitted and the barrier shall be placed in direct contact with the steel retainer plate. For deck beam applications the minimum required 'A' distance is 6' to accommodate the shear key clamping device.

Detail I - Installation for a new bridge deck or bridge slab.  
 Detail II - Installation for a new deck beam with an initial concrete wearing surface. Additional bar splicers shall be provided at 6'-0" centers and paired with the bar splicers of the concrete wearing surface reinforcement to accommodate the installation of the retainer assemblies. The cost of the additional bar splicers is included with the concrete wearing surface.  
 Detail III - Installation for a new deck beam with no initial wearing surface or with an initial hot-mix asphalt (HMA) wearing surface present. The deck beam directly beneath the temporary concrete barrier shall be fabricated with bar splicer inserts in the side of the beam, as detailed, to accommodate the installation of the retainer assemblies. A pair of bar splicers, 6" apart, shall be placed at 6'-0" centers along the length of the beam. The cost of the bar splicers is included with the deck beam.

RAILING CRITERIA

NCHRP 350 Test Level	3
Railing Weight (plf)	440

R-27 10-12-2021

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GREENE & BRADFORD, INC.  
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 PROFESSIONAL DESIGN FIRM NO. 181-001179  
 PROFESSIONAL SEAL NO. 001-001179-001-001179  
 (217) 799-8844, 799-4223 (F)

USER NAME =	kashifs
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PLOT DATE =	4/20/2023

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DRAWN -	PG
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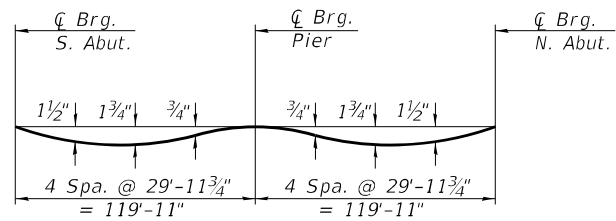
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REVISED -	
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REVISED -	

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION  
 STRUCTURE NO. 074-0089

SHEET 6 OF 31 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	(74-68)BR	PIATT	105	46
CONTRACT NO. 70D61				
ILLINOIS FED. AID PROJECT				

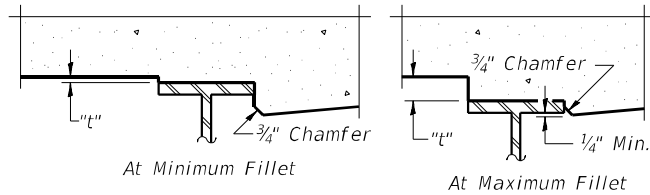


**DEAD LOAD DEFLECTION DIAGRAM**

(Includes weight of concrete only.)

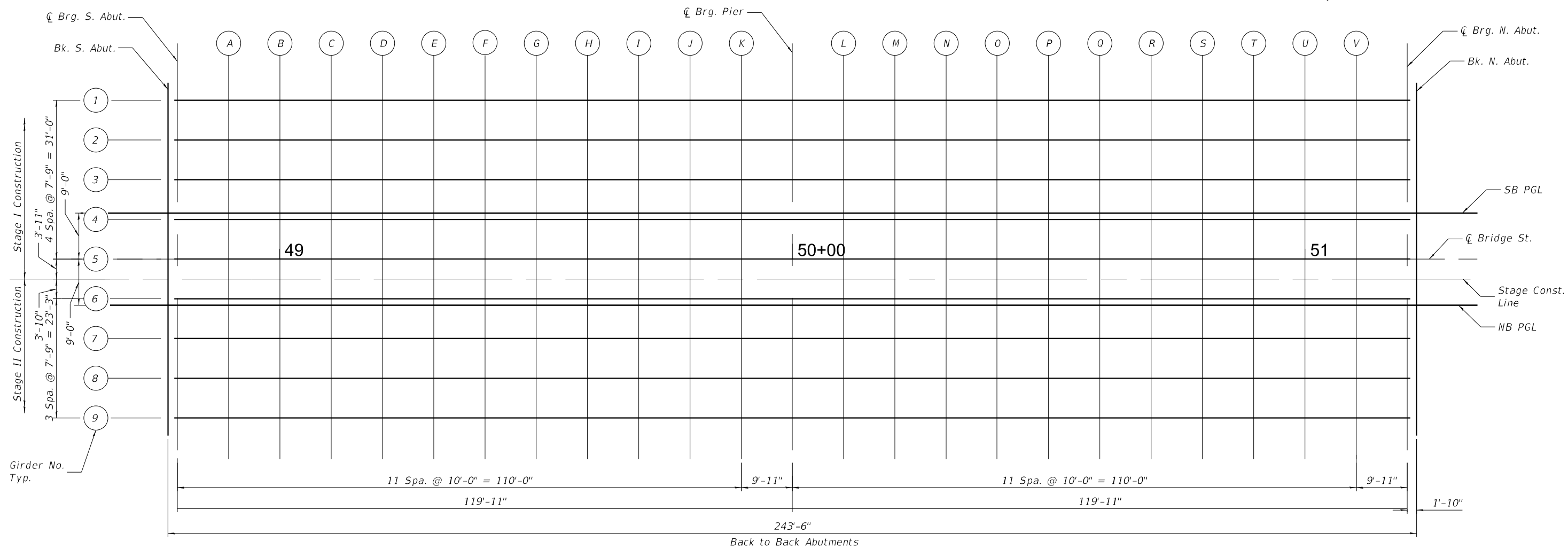
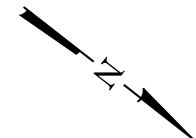
**Note:**

The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown on sheets 8 & 9 of 31.



To determine "t": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown below. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown on Sheets 8 and 9 of 31, minus slab thickness, equals the fillet heights "t" above top flange of beams.

**FILLET HEIGHTS**



**PLAN**

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PROFESSIONAL SEAL NO. 001-001179  
(217) 799-8844, 799-4223 (F)

USER NAME = kashifs	DESIGNED - MAC	REVISED -
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	DRAWN - PG	REVISED -
PLOT DATE = 4/20/2023	CHECKED - KAS	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TOP OF SLAB ELEVATIONS - I  
STRUCTURE NO. 074-0089**

SHEET 7 OF 31 SHEETS

F.A.I. RTE. 72	SECTION (74-68)BR	COUNTY PIATT	TOTAL SHEETS 105	SHEET NO. 47
CONTRACT NO. 70D61				
ILLINOIS FED. AID PROJECT				





STAGE CONSTRUCTION JOINT

Table with 5 columns: Location, Station, Offset, Theoretical Grade Elevations, Theoretical Grade Elevations Adjusted For Dead Load Deflection. Rows include Bk. S. Abut., Brg. S. Abut., and Brg. N. Abut.

GIRDER 6

Table with 5 columns: Location, Station, Offset, Theoretical Grade Elevations, Theoretical Grade Elevations Adjusted For Dead Load Deflection. Rows include Bk. S. Abut., Brg. S. Abut., and Brg. N. Abut.

NORTHBOUND PROFILE GRADE LINE

Table with 5 columns: Location, Station, Offset, Theoretical Grade Elevations, Theoretical Grade Elevations Adjusted For Dead Load Deflection. Rows include Bk. S. Abut., Brg. S. Abut., and Brg. N. Abut.

GIRDER 7

Table with 5 columns: Location, Station, Offset, Theoretical Grade Elevations, Theoretical Grade Elevations Adjusted For Dead Load Deflection. Rows include Bk. S. Abut., Brg. S. Abut., and Brg. N. Abut.

GIRDER 8

Table with 5 columns: Location, Station, Offset, Theoretical Grade Elevations, Theoretical Grade Elevations Adjusted For Dead Load Deflection. Rows include Bk. S. Abut., Brg. S. Abut., and Brg. N. Abut.

GIRDER 9

Table with 5 columns: Location, Station, Offset, Theoretical Grade Elevations, Theoretical Grade Elevations Adjusted For Dead Load Deflection. Rows include Bk. S. Abut., Brg. S. Abut., and Brg. N. Abut.

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Table with 4 columns: USER NAME, DESIGNED, CHECKED, PLOT SCALE, PLOT DATE. Values include kashifs, MAC, KAS, PG, 4/20/2023.

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS - III  
STRUCTURE NO. 074-0089

Table with 5 columns: F.A.I. RTE., SECTION, COUNTY, TOTAL SHEETS, SHEET NO. Values include 72, (74-68)BR, PIATT, 105, 49.

WEST EDGE OF SHOULDER

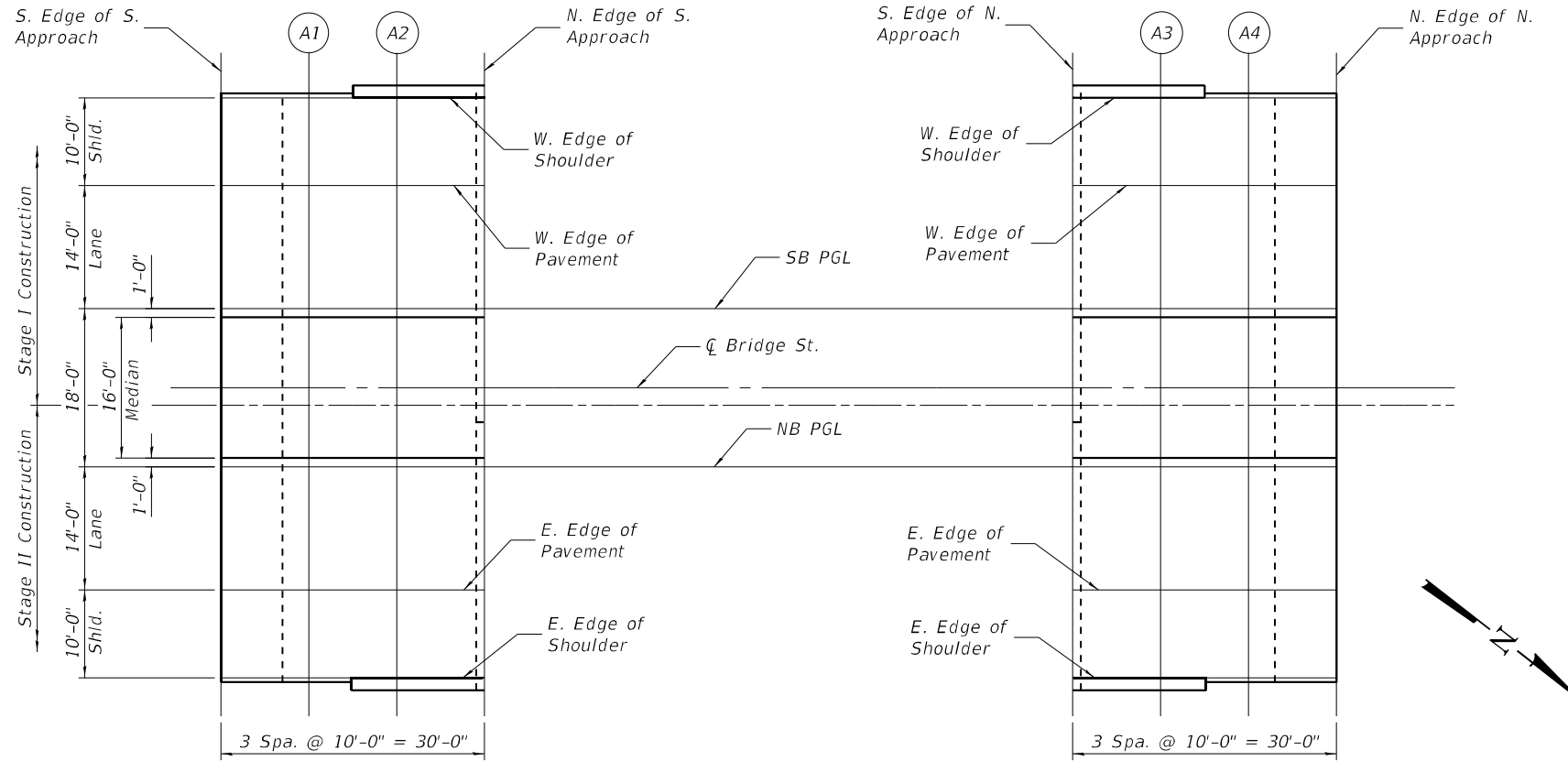
Location	Station	Offset	Theoretical Grade Elevations
S. End of S. Approach	48+49.25	24.00	695.85
A1	48+59.25	24.00	695.94
A2	48+69.25	24.00	696.02
N. End of S. Approach	48+79.25	24.00	696.10
S. End of N. Approach	51+20.75	24.00	696.10
A3	51+30.75	24.00	696.02
A4	51+40.75	24.00	695.94
N. End of N. Approach	51+50.75	24.00	695.85

WEST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
S. End of S. Approach	48+49.25	14.00	696.05
A1	48+59.25	14.00	696.14
A2	48+69.25	14.00	696.22
N. End of S. Approach	48+79.25	14.00	696.30
S. End of N. Approach	51+20.75	14.00	696.30
A3	51+30.75	14.00	696.22
A4	51+40.75	14.00	696.14
N. End of N. Approach	51+50.75	14.00	696.05

SOUTHBOUND PROFILE GRADE LINE

Location	Station	Offset	Theoretical Grade Elevations
S. End of S. Approach	48+49.25	0.00	696.26
A1	48+59.25	0.00	696.35
A2	48+69.25	0.00	696.43
N. End of S. Approach	48+79.25	0.00	696.51
S. End of N. Approach	51+20.75	0.00	696.51
A3	51+30.75	0.00	696.43
A4	51+40.75	0.00	696.35
N. End of N. Approach	51+50.75	0.00	696.26



SOUTH APPROACH

NORTH APPROACH

PLAN

Q BRIDGE ST.

Location	Station	Offset	Theoretical Grade Elevations
S. End of S. Approach	48+49.25	9.00	696.40
A1	48+59.25	9.00	696.48
A2	48+69.25	9.00	696.57
N. End of S. Approach	48+79.25	9.00	696.64
S. End of N. Approach	51+20.75	9.00	696.64
A3	51+30.75	9.00	696.57
A4	51+40.75	9.00	696.48
N. End of N. Approach	51+50.75	9.00	696.40

STAGE CONSTRUCTION JOINT

Location	Station	Offset	Theoretical Grade Elevations
S. End of S. Approach	48+49.25	5.08	696.37
A1	48+59.25	5.08	696.45
A2	48+69.25	5.08	696.54
N. End of S. Approach	48+79.25	5.08	696.61
S. End of N. Approach	51+20.75	5.08	696.61
A3	51+30.75	5.08	696.54
A4	51+40.75	5.08	696.45
N. End of N. Approach	51+50.75	5.08	696.37

EAST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
S. End of S. Approach	48+49.25	24.00	695.85
A1	48+59.25	24.00	695.94
A2	48+69.25	24.00	696.02
N. End of S. Approach	48+79.25	24.00	696.10
S. End of N. Approach	51+20.75	24.00	696.10
A3	51+30.75	24.00	696.02
A4	51+40.75	24.00	695.94
N. End of N. Approach	51+50.75	24.00	695.85

EAST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
S. End of S. Approach	48+49.25	14.00	696.05
A1	48+59.25	14.00	696.14
A2	48+69.25	14.00	696.22
N. End of S. Approach	48+79.25	14.00	696.30
S. End of N. Approach	51+20.75	14.00	696.30
A3	51+30.75	14.00	696.22
A4	51+40.75	14.00	696.14
N. End of N. Approach	51+50.75	14.00	696.05

NORTHBOUND PROFILE GRADE LINE

Location	Station	Offset	Theoretical Grade Elevations
S. End of S. Approach	48+49.25	0.00	696.26
A1	48+59.25	0.00	696.35
A2	48+69.25	0.00	696.43
N. End of S. Approach	48+79.25	0.00	696.51
S. End of N. Approach	51+20.75	0.00	696.51
A3	51+30.75	0.00	696.43
A4	51+40.75	0.00	696.35
N. End of N. Approach	51+50.75	0.00	696.26

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 3501 COLUMBIAN DRIVE  
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 PROFESSIONAL DESIGN FIRM NO. 181-001179  
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 (217) 799-8844, 799-8227 (F)

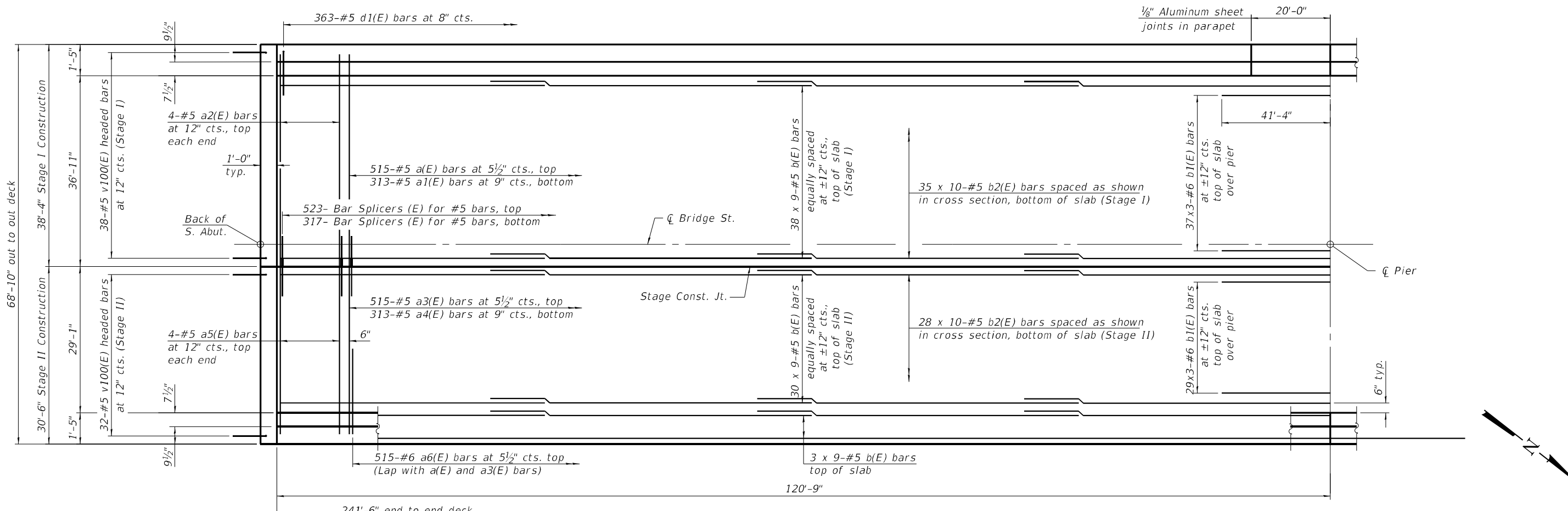
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**TOP OF APPROACH SLAB ELEVATIONS**  
**STRUCTURE NO. 074-0089**

SHEET 10 OF 31 SHEETS

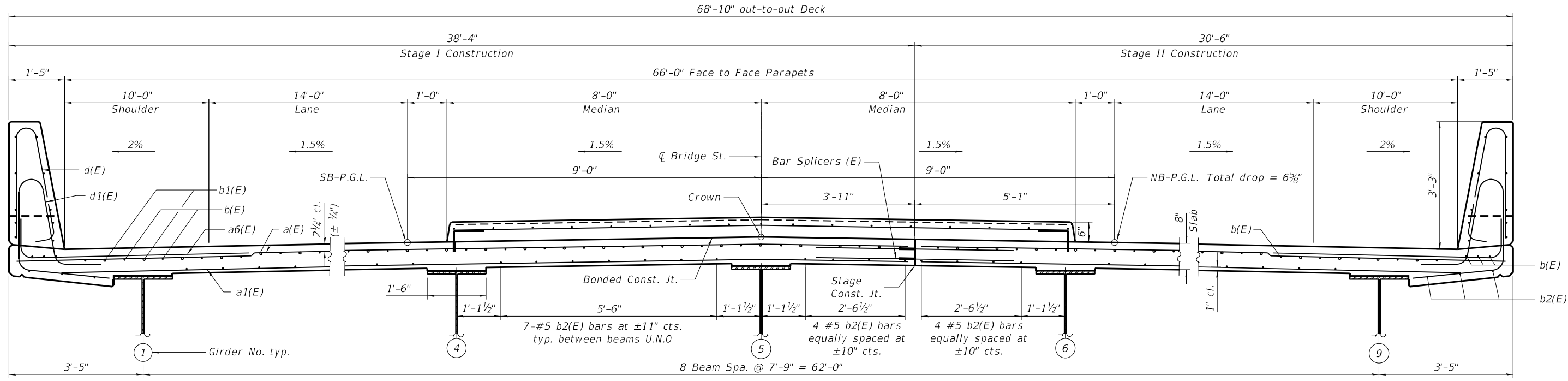
F.A.I. RTE. 72	SECTION (74-68)BR	COUNTY PIATT	TOTAL SHEETS 105	SHEET NO. 50
CONTRACT NO. 70D61				
ILLINOIS FED. AID PROJECT				



**MINIMUM BAR LAP**  
 #4 bar = 2'-5"  
 #5 bar = 3'-6"  
 #6 bar = 4'-5"

**PARTIAL PLAN**  
 (Median not shown for clarity)

**Notes:**  
 See sheet 12 of 31 for superstructure details and Bill of Material.  
 See sheet 12 of 31 for median details  
 Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.



**CROSS SECTION**  
 (Looking North)

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 LICENSED UNDER PROFESSIONAL ENGINEERING ACT  
 (217) 799-8844, 799-4223 (F)

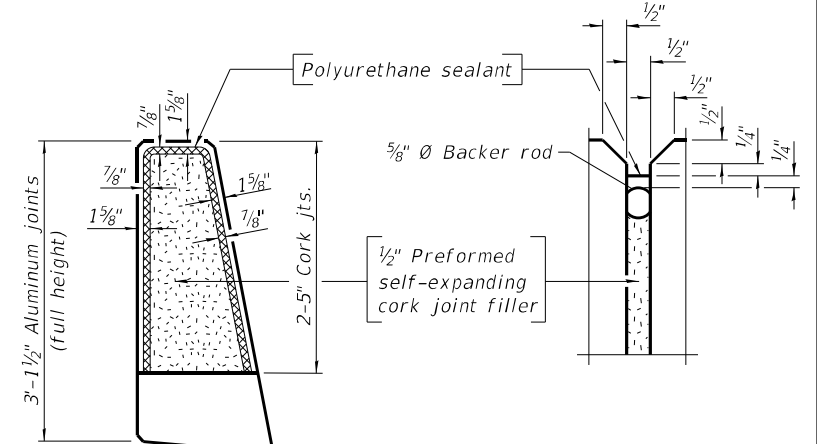
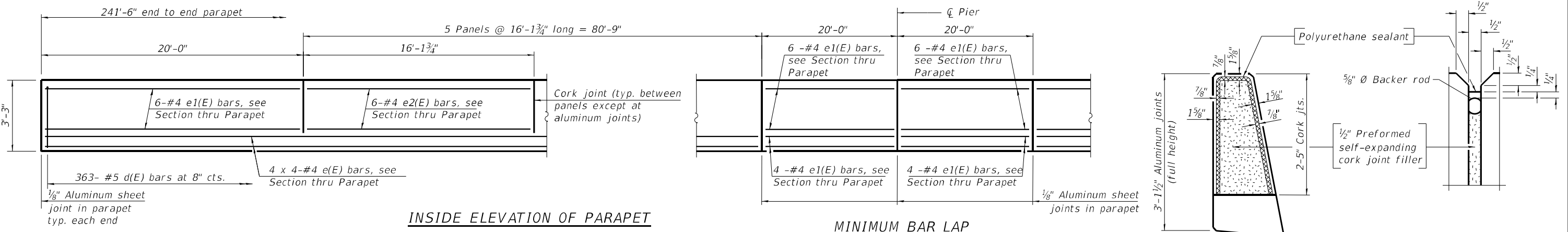
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

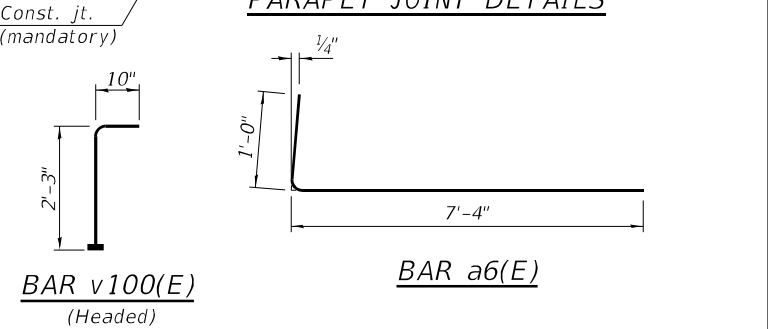
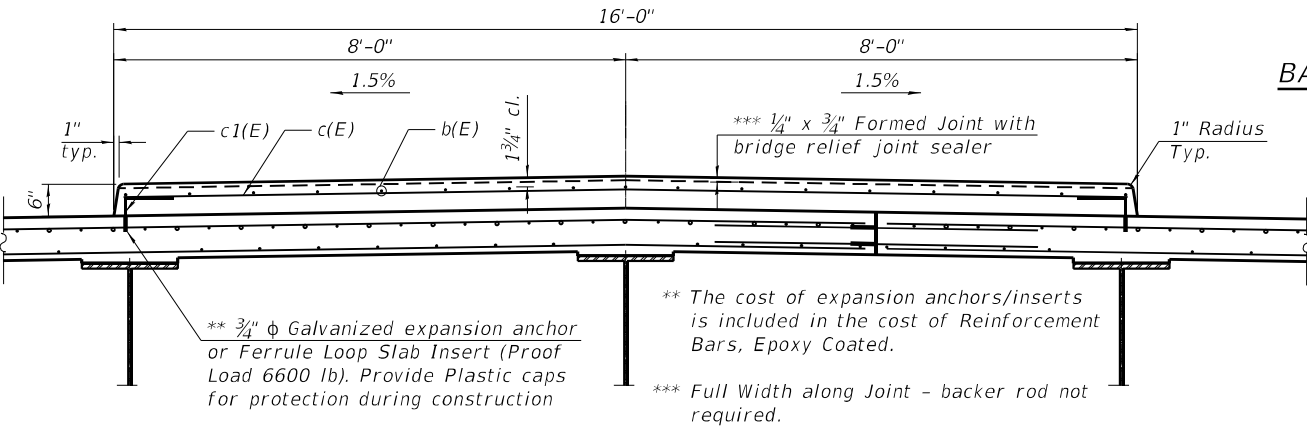
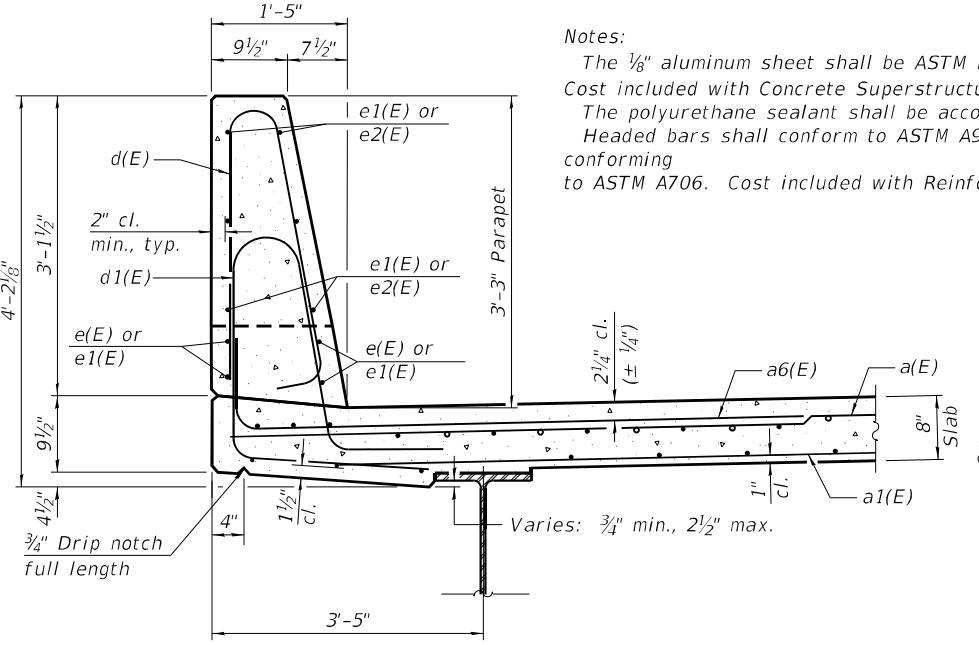
**SUPERSTRUCTURE**  
**STRUCTURE NO. 074-0089**

SHEET 11 OF 31 SHEETS

F.A.I. RTE. 72	SECTION (74-68)BR	COUNTY PIATT	TOTAL SHEETS 105	SHEET NO. 51
CONTRACT NO. 70D61				
ILLINOIS FED. AID PROJECT				



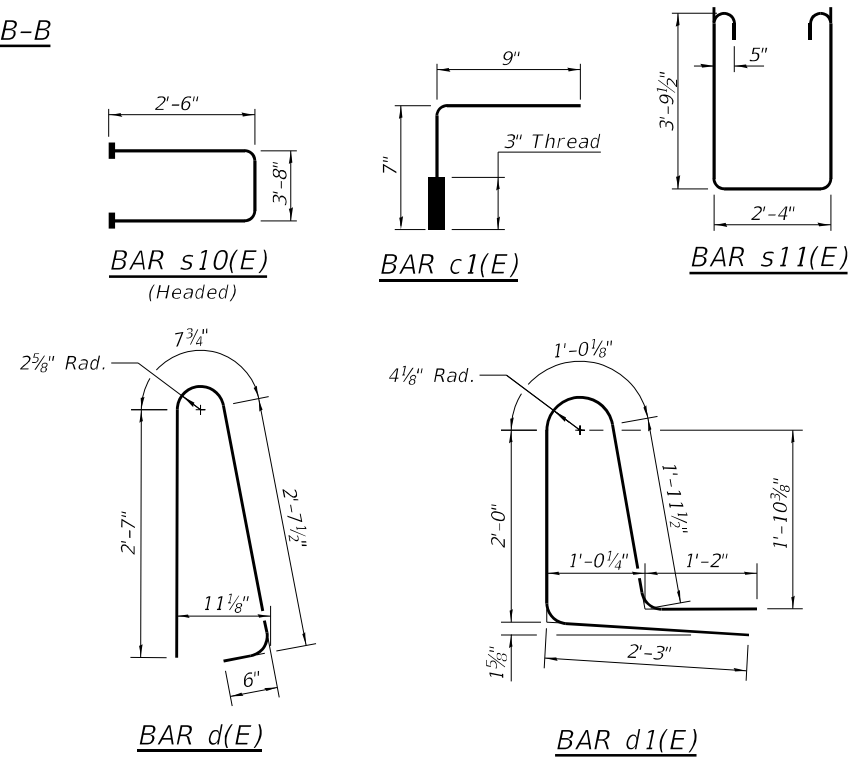
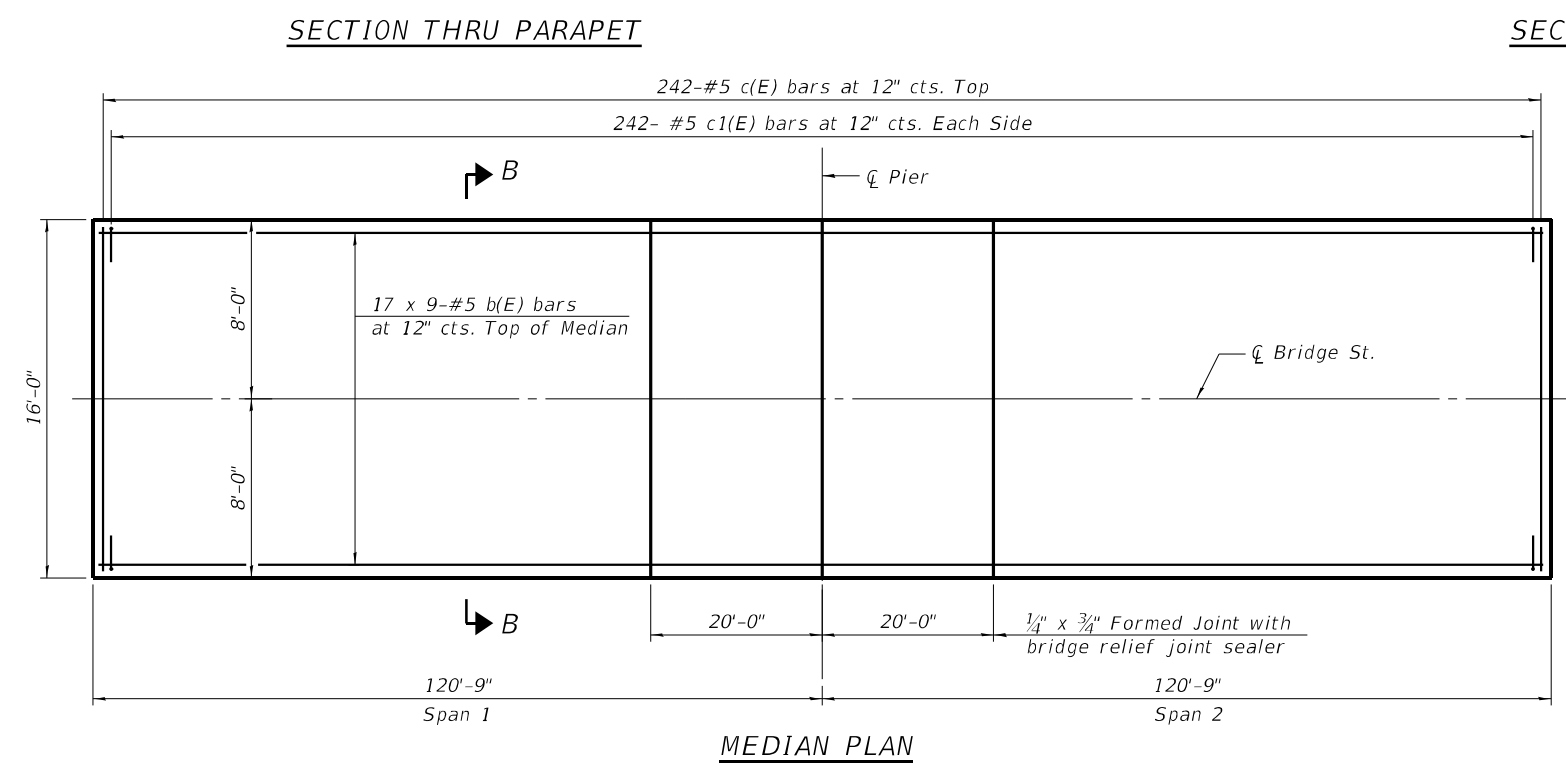
**Notes:**  
 The 1/8" aluminum sheet shall be ASTM B 209 alloy 3003-H14 and coated to minimize reaction with wet concrete. Cost included with Concrete Superstructure.  
 The polyurethane sealant shall be according to Article 1050.04 of the Std. Spec. and the color shall be gray.  
 Headed bars shall conform to ASTM A970 with threaded attachment; Class HA; and reinforcement bars conforming to ASTM A706. Cost included with Reinforcement Bars, Epoxy Coated.



**SUPERSTRUCTURE BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a(E)	515	#5	38'-0"	—
a1(E)	313	#5	37'-0"	—
a2(E)	8	#5	37'-10"	—
a3(E)	515	#5	30'-2"	—
a4(E)	313	#5	29'-2"	—
a5(E)	8	#5	30'-0"	—
a6(E)	1030	#6	8'-4"	—
b(E)	819	#5	29'-11"	—
b1(E)	198	#6	30'-6"	—
b2(E)	630	#5	27'-3"	—
c(E)	242	#5	15'-8"	—
c1(E)	484	#5	1'-4"	└
d(E)	726	#5	6'-5"	└
d1(E)	726	#5	8'-5"	└
e(E)	64	#4	26'-10"	—
e1(E)	64	#4	19'-8"	—
e2(E)	120	#4	15'-10"	—
m10(E)	10	#6	38'-0"	—
m11(E)	56	#6	7'-5"	—
m12(E)	16	#6	3'-1"	—
m13(E)	8	#6	3'-7"	—
m14(E)	8	#6	3'-6"	—
m15(E)	10	#6	30'-2"	—
s10(E)	124	#5	8'-8"	└
s11(E)	124	#5	11'-1"	└
v100(E)	140	#5	3'-1"	└
Reinforcement Bars, Epoxy Coated		Lbs.	148,130	
Concrete Superstructure		Cu. Yds.	645.6	

Bars indicated thus 1 x 2-#4 etc. indicates 1 line of bars with 2 lengths per line.



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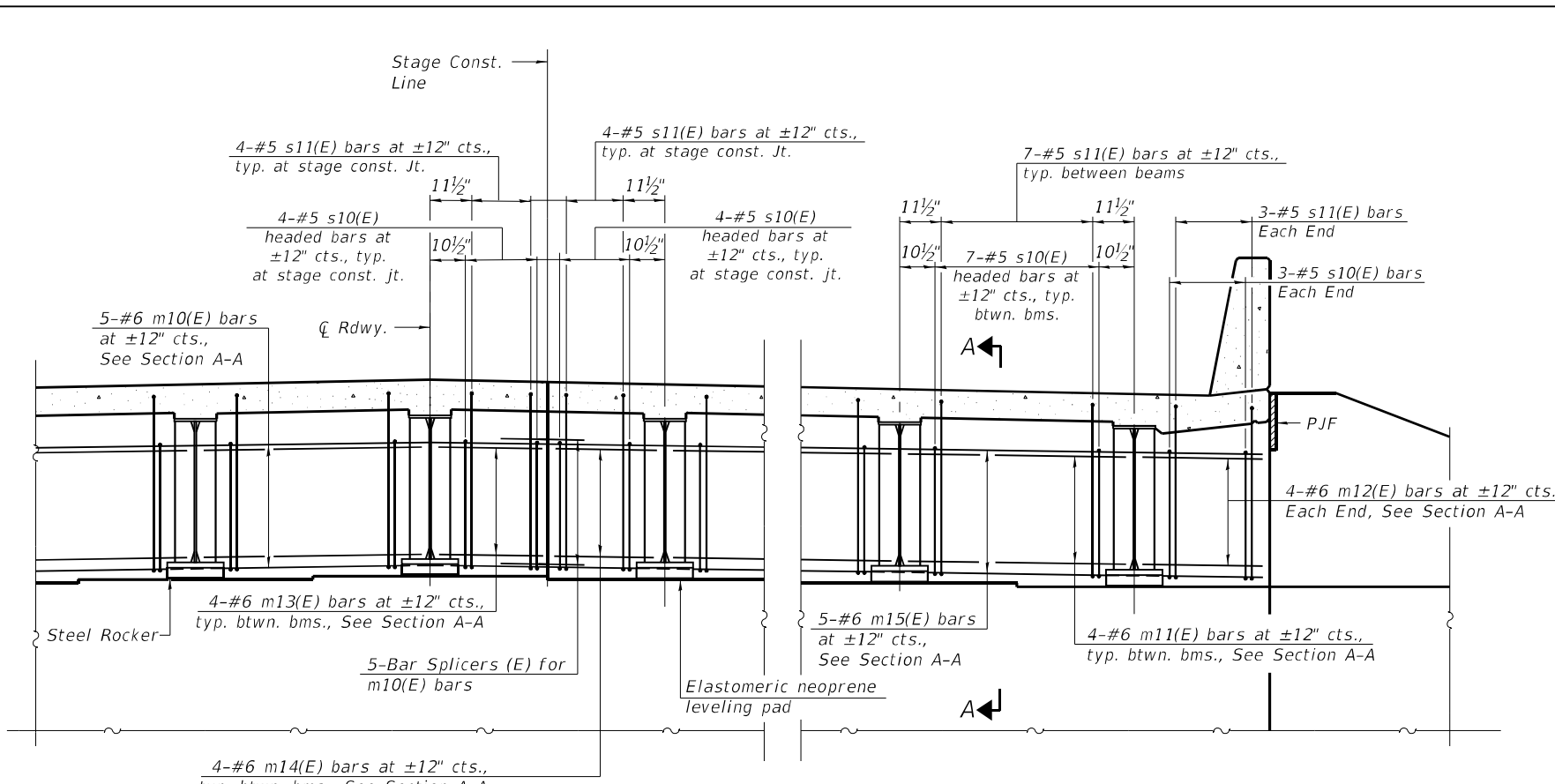
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 PROFESSIONAL SEAL NO. 001-001178  
 (217) 799-8844, 799-4223 (F)

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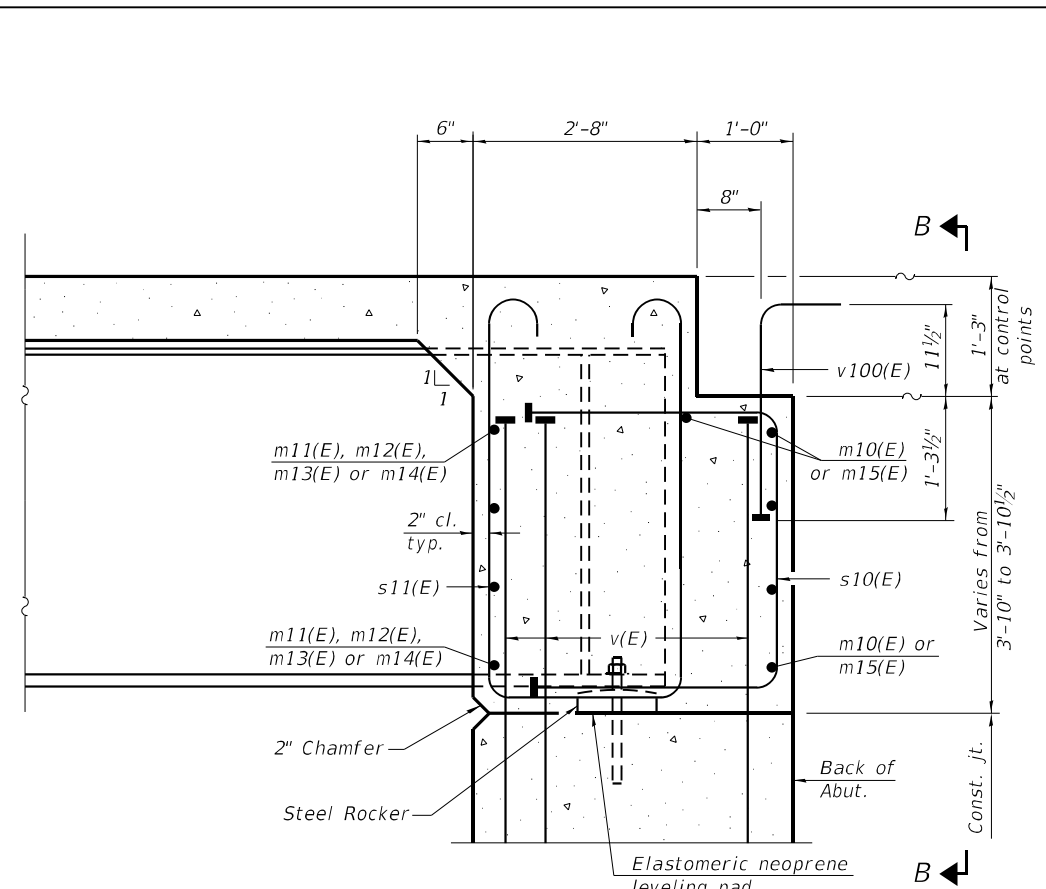
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 DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS  
 STRUCTURE NO. 074-0089

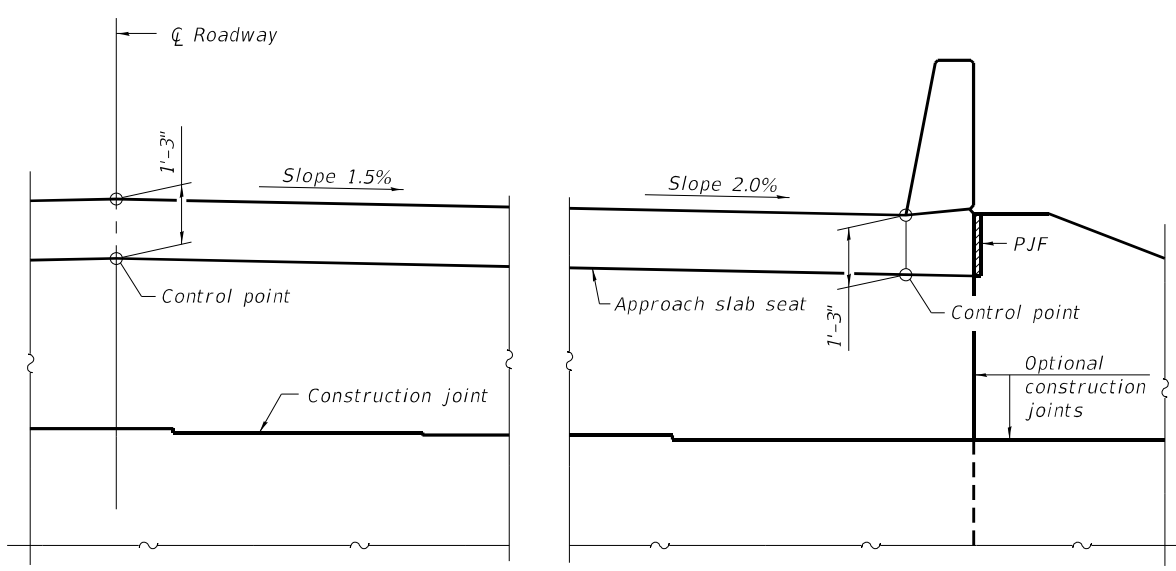
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			CONTRACT NO. 70D61	
		ILLINOIS FED. AID PROJECT		



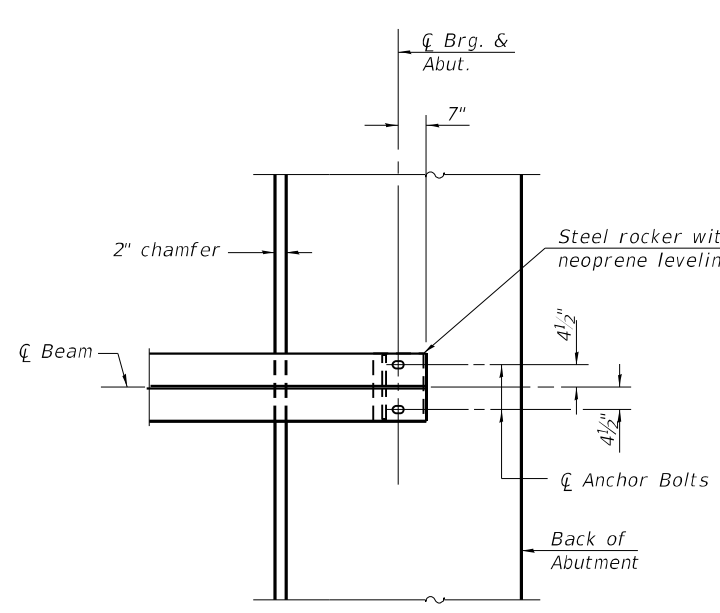
**DIAPHRAGM AT ABUTMENT**  
(Median bars not shown for clarity)



**SECTION A-A**



**VIEW B-B**  
(Median bars not shown for clarity)



**PLAN AT ABUTMENT**  
(Showing bottom flange of beam)

Notes:  
See sheet 12 of 31 for superstructure details and Bill of Material.  
See sheet 15 of 31 for P.J.F. details.  
The approach slab seat shall have a constant slope determined from the control points shown.

MODEL: 0740089-70D61-013  
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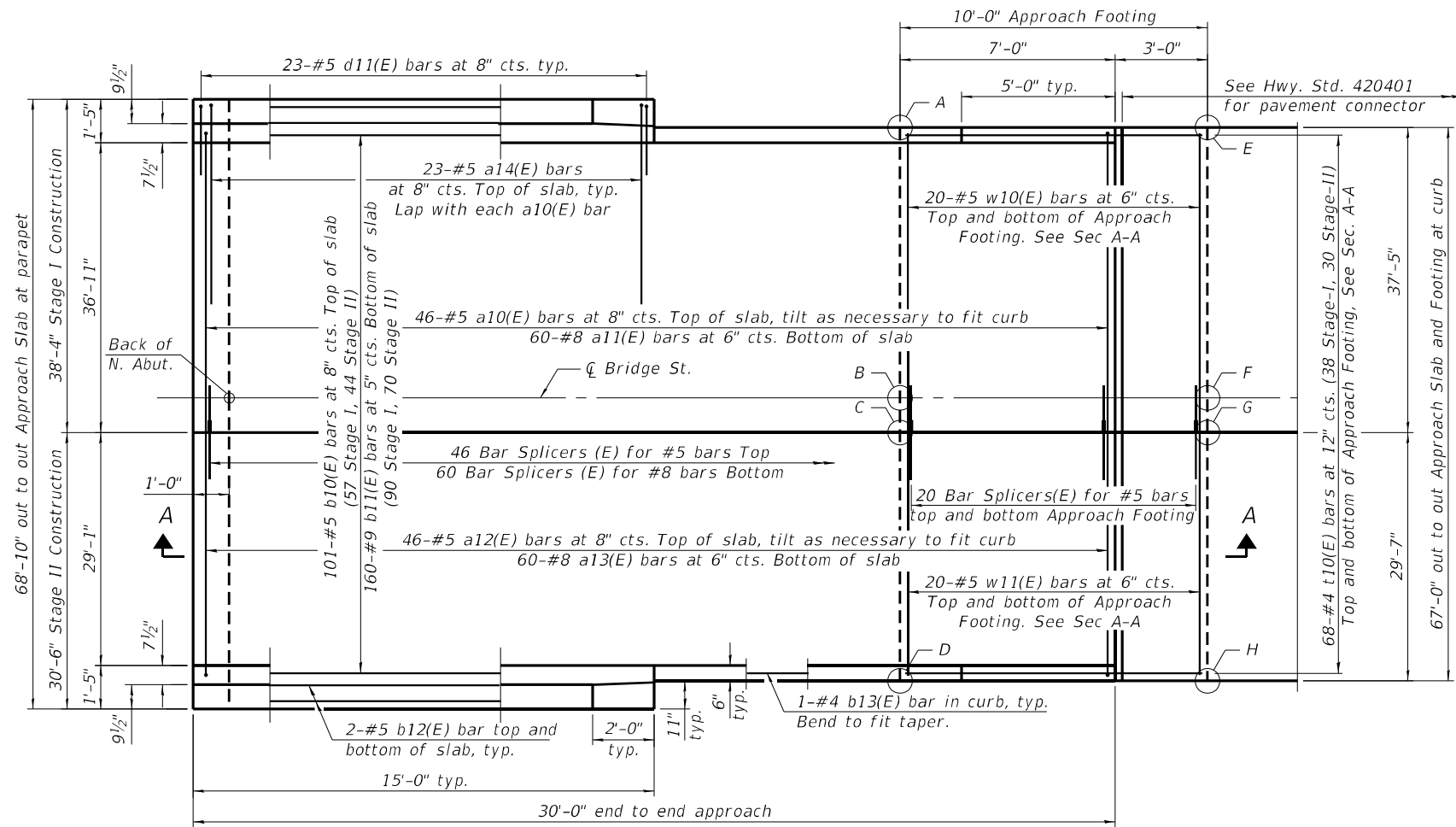
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**DIAPHRAGM DETAILS**  
**STRUCTURE NO. 074-0089**

SHEET 13 OF 31 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	(74-68)BR	PIATT	105	53
CONTRACT NO. 70D61				
ILLINOIS FED. AID PROJECT				

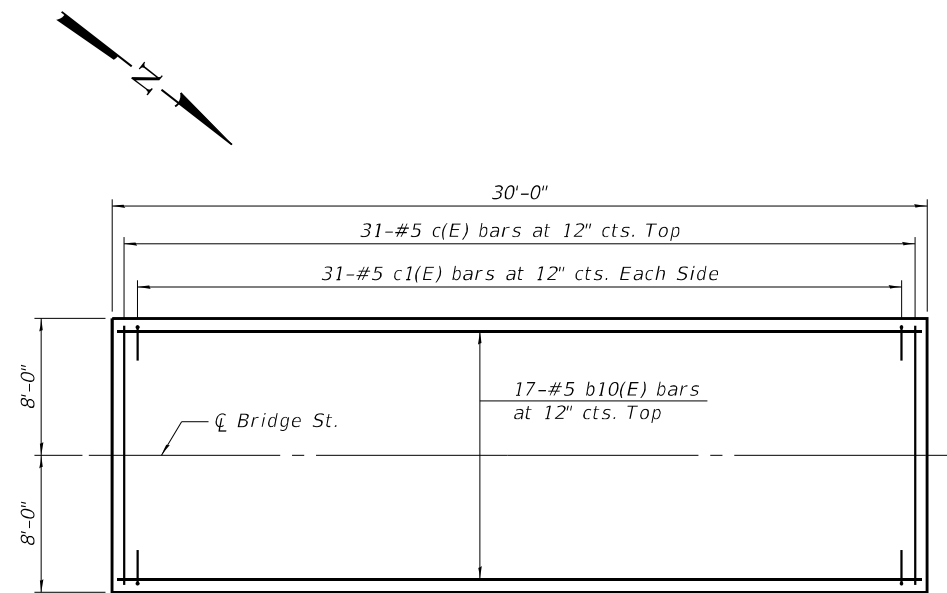


**PLAN**

(North approach slab shown; South approach slab similar)  
(Median not shown for clarity)

\*\* The cost of expansion anchors/inserts is included in the cost of Reinforcement Bars, Epoxy Coated.

\*\*\* Full Width along Joint - backer rod not required.

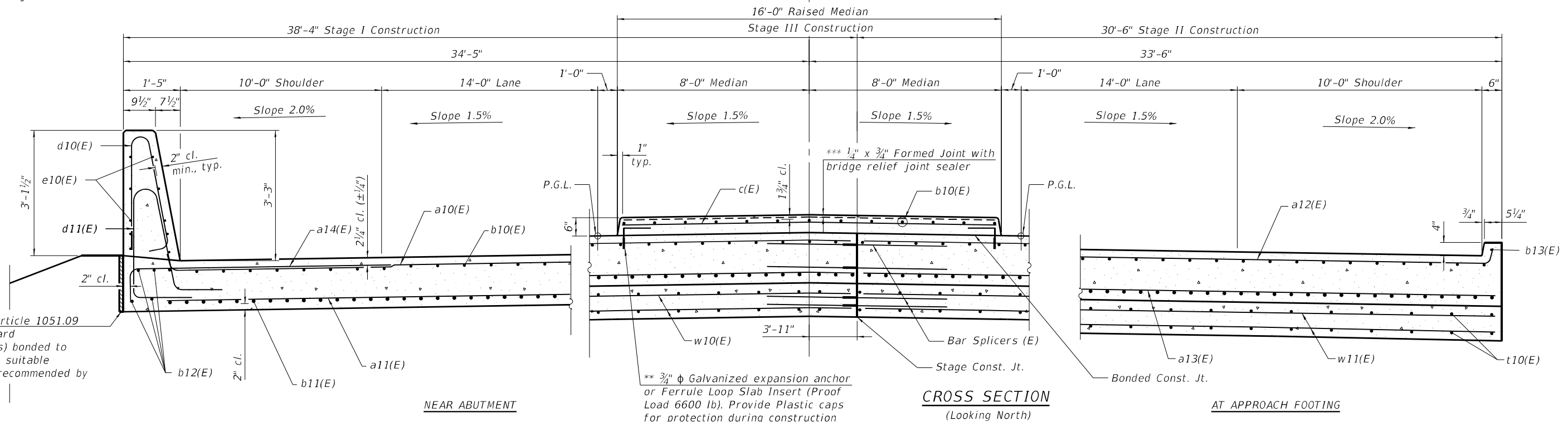


**MEDIAN PLAN**

(North approach Median shown; South approach Median similar)

**TOP AND BOTTOM ELEVATIONS FOR APPROACH FOOTING**

South Approach			North Approach		
Point	Top	Bottom	Point	Top	Bottom
A	694.65	693.82	A	694.65	693.82
B	695.21	694.37	B	695.21	694.37
C	695.18	694.34	C	695.18	694.34
D	694.65	693.82	D	694.65	693.82
E	694.56	693.73	E	694.56	693.73
F	695.12	694.28	F	695.12	694.28
G	695.09	694.25	G	695.09	694.25
H	694.56	693.73	H	694.56	693.73



**NEAR ABUTMENT**

**CROSS SECTION**  
(Looking North)

**AT APPROACH FOOTING**

(Sheet 1 of 2)

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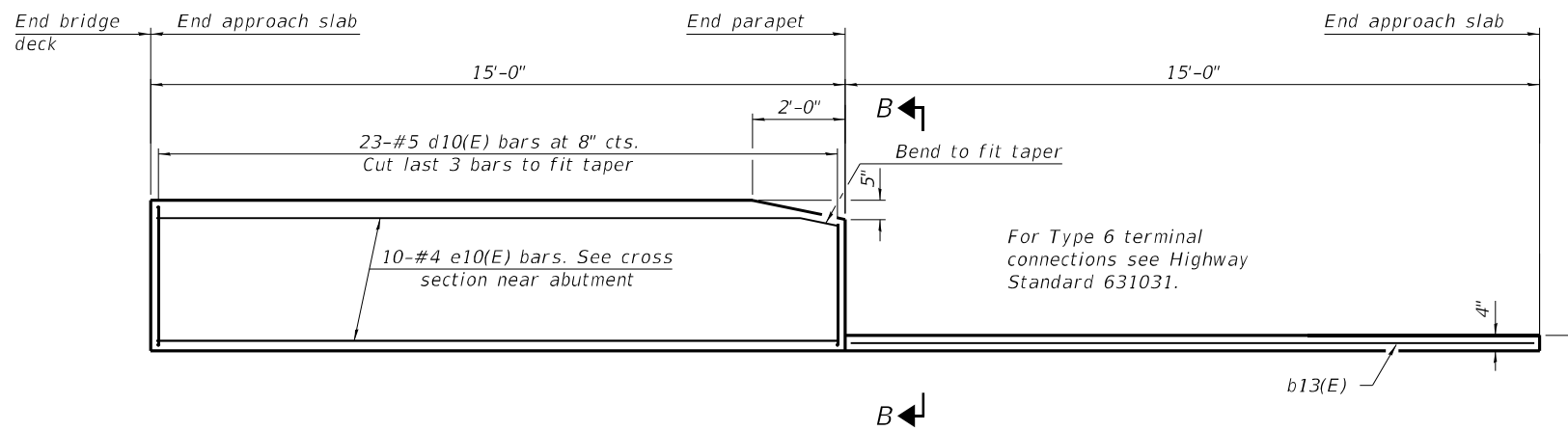
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**DEPARTMENT OF TRANSPORTATION**

**BRIDGE APPROACH SLAB DETAILS**  
**STRUCTURE NO. 074-0089**

SHEET 14 OF 31 SHEETS

F.A.I. RTE. 72	SECTION (74-68)BR	COUNTY PIATT	TOTAL SHEETS 105	SHEET NO. 54
CONTRACT NO. 70D61				
ILLINOIS FED. AID PROJECT				



INSIDE ELEVATION OF PARAPET AND CURB

Notes:

The joint opening shall be adjusted for temperature per Article 520.04 of the Standard Specifications. However, since this detail is for jointless structures, the length of bridge used to calculate the adjustment shall be equal to half the total bridge length plus the length of the bridge approach slab.

Parapet concrete and Median shall be paid for as Concrete Superstructure.

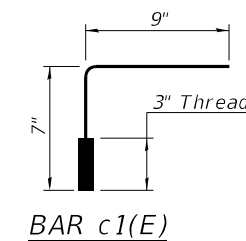
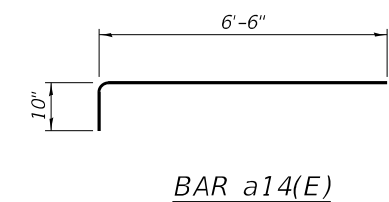
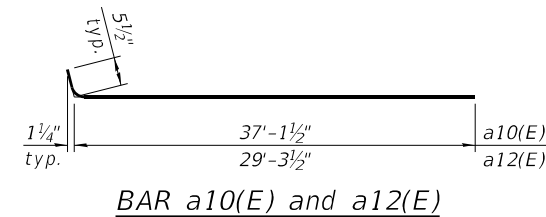
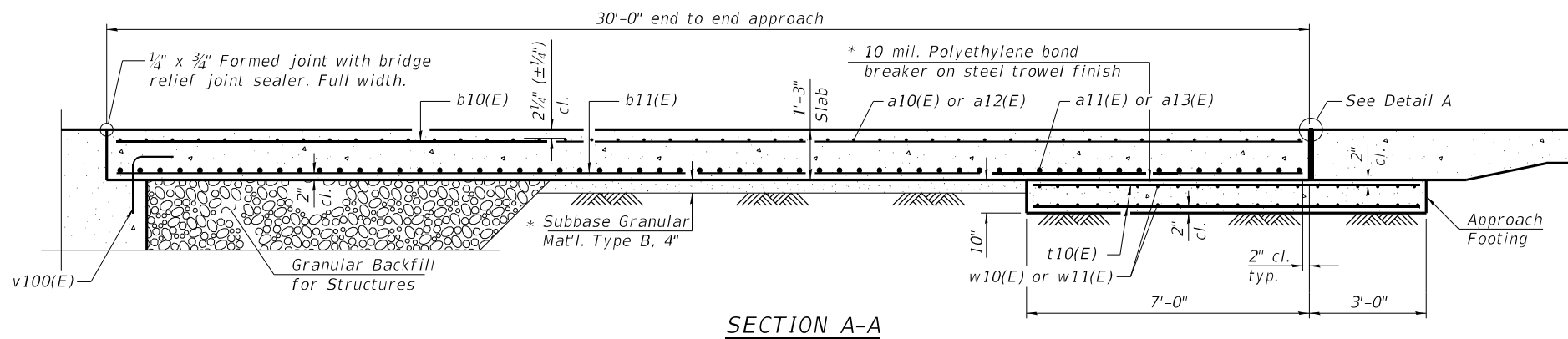
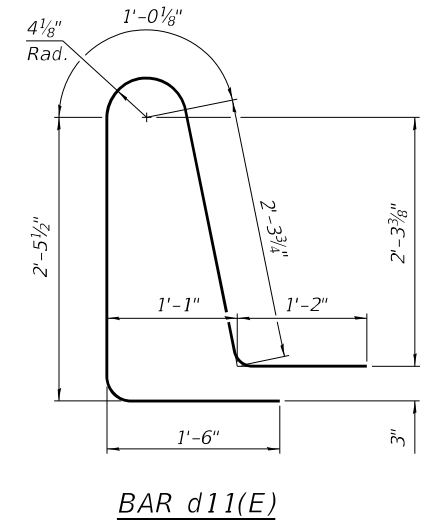
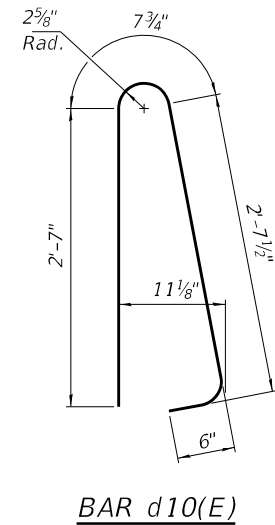
Approach slab shall be paid for as Concrete Superstructure (Approach Slab).

Approach footing concrete shall be paid for as Concrete Structures.

The approach footing maximum applied service bearing pressure ( $Q_{max}$ ) = 2.0 ksf.

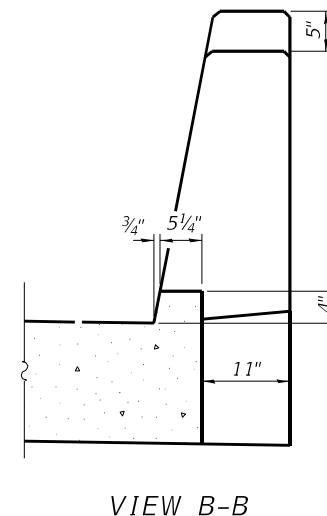
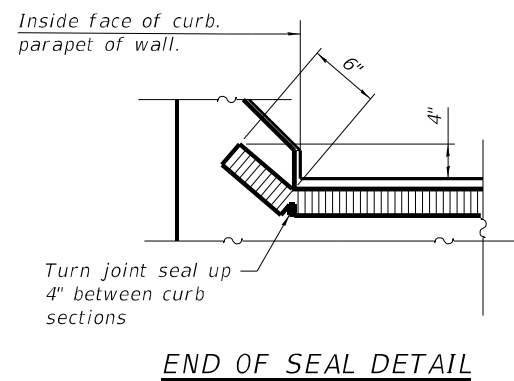
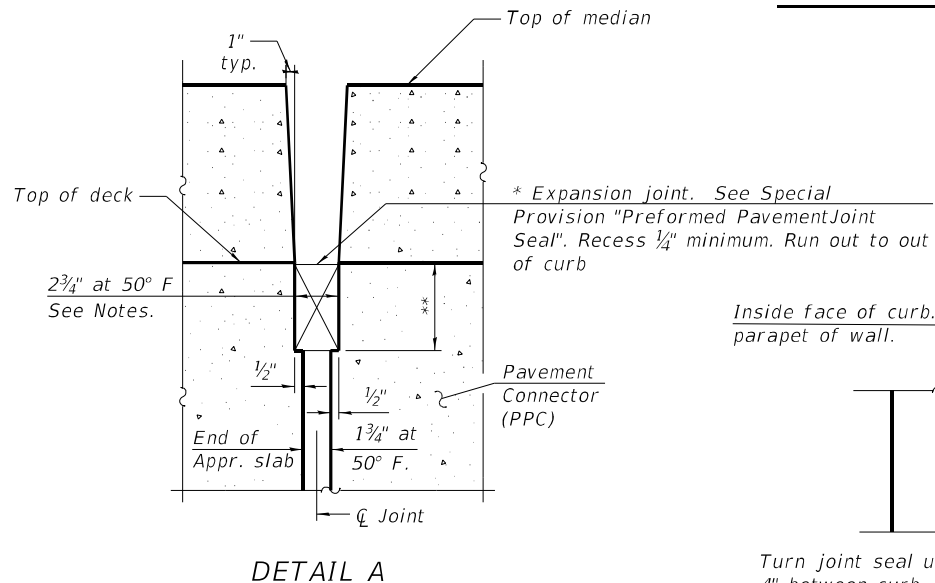
Cost of excavation for approach footing included with Concrete Structures.

For Granular Backfill for Structures and drainage treatment details, see sheet 2 of 31.



TWO APPROACHES BILL OF MATERIAL

Bar	No.	Size	Length	Shape	
a10(E)	92	#5	37'-7"	▬	
a11(E)	120	#8	37'-2"	▬	
a12(E)	92	#5	29'-9"	▬	
a13(E)	120	#8	29'-4"	▬	
a14(E)	92	#5	7'-4"	▬	
b10(E)	236	#5	29'-8"	▬	
b11(E)	320	#9	29'-8"	▬	
b12(E)	16	#5	14'-8"	▬	
b13(E)	4	#4	14'-8"	▬	
c(E)	62	#5	15'-8"	▬	
c1(E)	124	#5	1'-4"	└	
d10(E)	92	#5	6'-5"	└	
d11(E)	92	#5	8'-6"	└	
e10(E)	40	#4	14'-8"	▬	
t10(E)	272	#4	9'-8"	▬	
w10(E)	80	#5	37'-1"	▬	
w11(E)	80	#5	29'-3"	▬	
Concrete Superstructure				Cu. Yd.	25.9
Concrete Superstructure (Approach Slab)				Cu. Yd.	191.2
Concrete Structures				Cu. Yd.	41.4
Reinforcement Bars, Epoxy Coated				Pound	78,640



\* Cost included with Concrete Superstructure (Approach Slab).

\*\* Per manufacturer recommendations

(Sheet 2 of 2)

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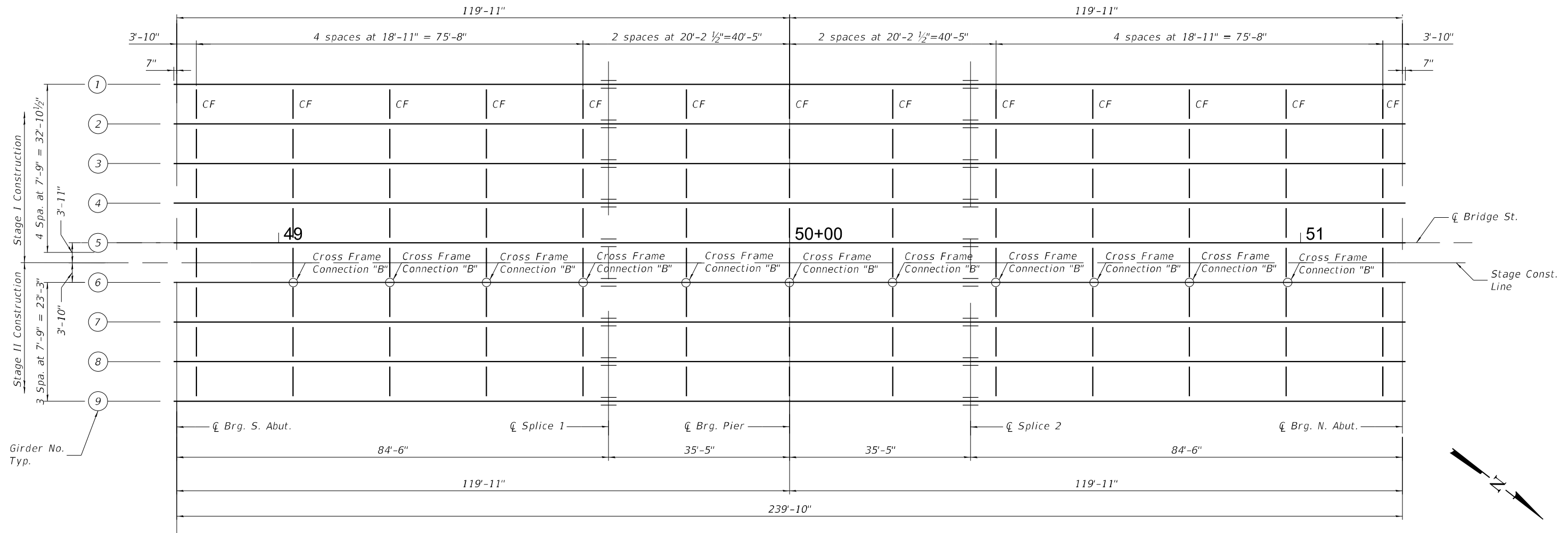
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

BRIDGE APPROACH SLAB DETAILS  
STRUCTURE NO. 074-0089

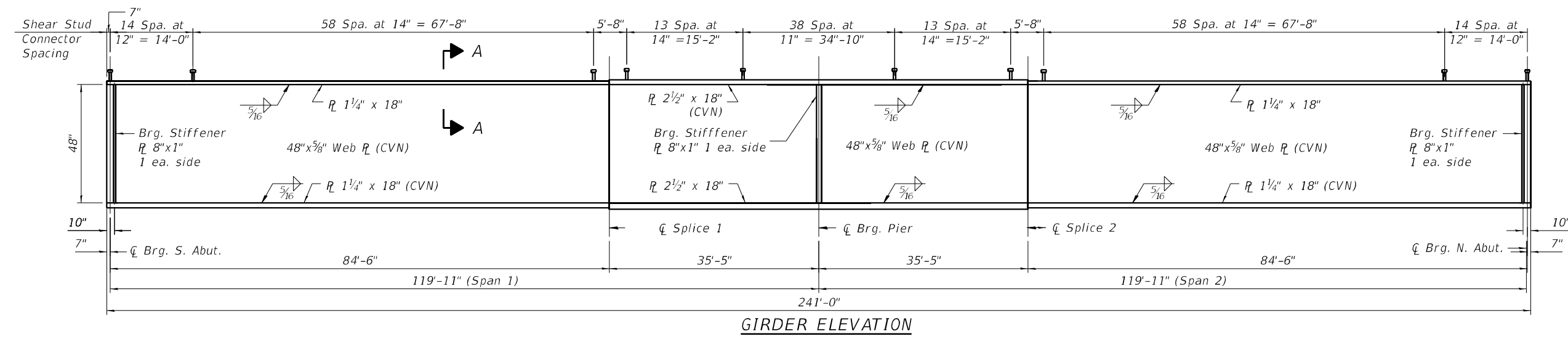
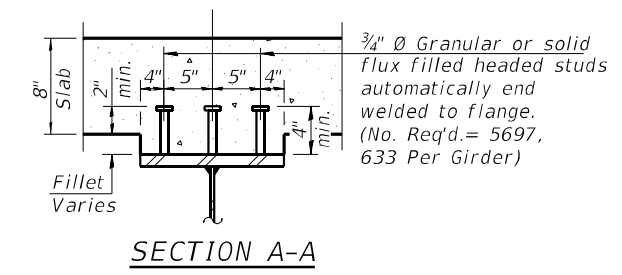
SHEET 15 OF 31 SHEETS

F.A.I. RTE. 72	SECTION (74-68)BR	COUNTY PIATT	TOTAL SHEETS 105	SHEET NO. 55
CONTRACT NO. 70D61				
ILLINOIS FED. AID PROJECT				



**FRAMING PLAN**

**Notes:**  
 All Web, flanges and stiffeners plates shall be Gr. 50.  
 Load carrying components designated "CVN" shall conform to the Charpy-V-Notch impact energy requirements, zone 2.  
 See Sheet 17 of 31 for Cross Frame Details.  
 All Cross Frames shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted. Individual cross frames at supports may be temporarily disconnected to install bearing anchor bolts.



**GIRDER ELEVATION**

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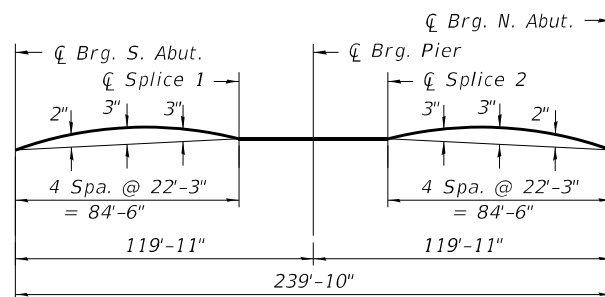
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	SHEET 16 OF 31 SHEETS						



Symmetrical 2 span

INTERIOR GIRDER MOMENT TABLE		
	0.4 Sp. 1 or 0.6 Sp. 2	Pier
$I_s$	(in <sup>4</sup> )	33053
$I_c(n)$	(in <sup>4</sup> )	72552
$I_c(3n)$	(in <sup>4</sup> )	54338
$I_c(cr)$	(in <sup>4</sup> )	-
$S_s$	(in <sup>3</sup> )	1309.0
$S_c(n)$	(in <sup>3</sup> )	1705.0
$S_c(3n)$	(in <sup>3</sup> )	1569
$S_c(cr)$	(in <sup>3</sup> )	-
$S_x$	(in <sup>3</sup> )	1135
DC1	(k/ft)	1.10
MDC1	(k)	972
DC2	(k/ft)	0.25
MDC2	(k)	224
DW	(k/ft)	0.388
MDW	(k)	348
LLDF		0.5844
$M_{\ell} + IM$	(k)	1637
$f_t$ (Strength I)	(ksi)	0
$M_u + \frac{1}{2} f_t S_x$	(k)	4882
$\phi_r M_n$	(k)	8513
$f_s$ DC1	(ksi)	8.9
$f_s$ DC2	(ksi)	1.7
$f_s$ DW	(ksi)	2.7
$f_s (\ell + IM)$	(ksi)	11.5
$f_t$ (Service II)	(ksi)	0.0
$f_s + f_t / 2$ (Service II)	(ksi)	28.3
Service II Resistance (ksi)		47.5
$f_s + f_t / 3$ (Strength I) (ksi)		37.4
$\phi_r F_n$	(ksi)	45.6
$V_r$	(k)	19.7
		31.2

INTERIOR GIRDER REACTION TABLE		
	Abut.	Pier
LLDF	0.7968	0.7968
OCF	(k)	-
RDC1	(k)	47.6
RDC2	(k)	10.7
RDW	(k)	16.6
R <sub>LL</sub>	(k)	77.8
R <sub>IM</sub>	(k)	17.0
R <sub>Total</sub> (Strength I)(Impact) (k)	263.7	697.4
R <sub>Total</sub> (Strength I)(No Impact) (k)	233.9	646.4

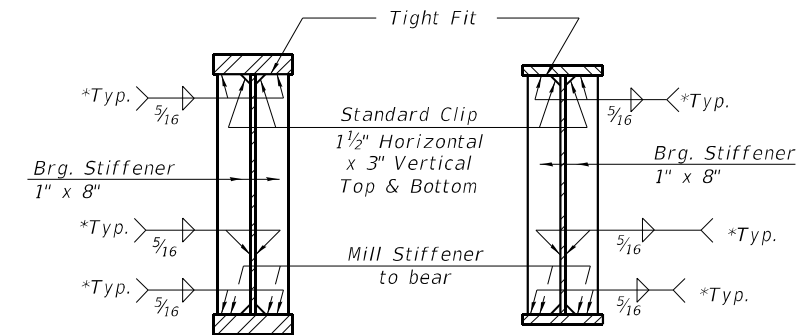


CAMBER DIAGRAM - GIRDER 1 TO 9

- $I_s, S_s$  : Non-composite moment of inertia and section modulus of the steel section used for computing  $f_s$ (Total-Strength I, and Service II) due to non-composite dead loads (in.<sup>4</sup> and in.<sup>3</sup>).
- $I_c(n), S_c(n)$ : Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing  $f_s$ (Total-Strength I, and Service II) in uncracked sections due to short-term composite live loads (in.<sup>4</sup> and in.<sup>3</sup>).
- $I_c(3n), S_c(3n)$ : Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing  $f_s$ (Total-Strength I, and Service II) in uncracked sections, due to long-term composite (superimposed) dead loads (in.<sup>4</sup> and in.<sup>3</sup>).
- $I_c(cr), S_c(cr)$ : Composite moment of inertia and section modulus of the steel and longitudinal deck reinforcement, used for computing  $f_s$  (Total-Strength I and Service II) in cracked sections, due to both short-term composite live loads and long-term composite (superimposed) dead loads (in.<sup>4</sup> and in.<sup>3</sup>).
- $S_x$  : Section modulus about the major axis of a section to the controlling flange, tension or compression, taken as yield moment with respect to the controlling flange over the yield strength of the controlling flange (in.<sup>3</sup>).
- DC1: Un-factored non-composite dead load (kips/ft.).
- M<sub>DC1</sub>: Un-factored moment due to non-composite dead load (kip-ft.).
- DC2: Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).
- M<sub>DC2</sub>: Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).
- DW: Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).
- M<sub>DW</sub>: Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).
- LLDF: Live Load Distribution Factor for moment and shear computed according to Article 4.6.2.2 and further IDOT provisions.
- $M_{\ell} + IM$ : Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).
- $M_u$  : Strength I load combination of factored design moments (kip-ft.).  
1.25 (M<sub>DC1</sub> + M<sub>DC2</sub>) + 1.5 M<sub>DW</sub> + 1.75 M <sub>$\ell$  + IM</sub>
- $f_t$  : Factored calculated flange lateral bending stress as calculated using Article 6.10.1.6 and as further simplified by IDOT provisions (ksi).
- $\phi_r M_n$ : Factored nominal flexural resistance of the section determined as specified in Article 6.10.7.1 or A6 as applicable (kip-ft.).
- $f_s$  DC1: Un-factored stress at edge of flange for controlling steel flange due to vertical non-composite dead loads as calculated below (ksi).  
M<sub>DC1</sub> / S<sub>s</sub>
- $f_s$  DC2: Un-factored stress at edge of flange for controlling steel flange due to vertical composite dead loads as calculated below (ksi).  
M<sub>DC2</sub> / S<sub>c(3n)</sub> or M<sub>DC2</sub> / S<sub>c(cr)</sub> as applicable.
- $f_s$  DW: Un-factored stress at edge of flange for controlling steel flange due to vertical composite future wearing surface loads as calculated below (ksi).  
M<sub>DW</sub> / S<sub>c(3n)</sub> or M<sub>DW</sub> / S<sub>c(cr)</sub> as applicable.
- $f_s (\ell + IM)$ : Un-factored stress at edge of flange for controlling steel flange due to vertical composite live load plus impact loads as calculated below (ksi).  
M <sub>$\ell$  + IM</sub> / S<sub>c(n)</sub> or M <sub>$\ell$  + IM</sub> / S<sub>c(cr)</sub> as applicable.
- $f_s + f_t / 2$  (Service II): Sum of stresses as computed below (ksi).  
 $f_s$  DC1 +  $f_s$  DC2 +  $f_s$  DW + 1.3  $f_s (\ell + IM)$  +  $f_t / 2$
- Service II Resistance: Composite (0.95R<sub>n</sub>F<sub>y</sub>) or noncomposite (0.80R<sub>n</sub>F<sub>y</sub>) stress capacity according to Article 6.10.4.2 (ksi).
- $f_s + f_t / 3$  (Strength I): Sum of stresses as computed below on non-compact sections (ksi).  
1.25 ( $f_s$  DC1 +  $f_s$  DC2) + 1.5  $f_s$  DW + 1.75  $f_s (\ell + IM)$  +  $f_t / 3$
- $\phi_r F_n$  : Factored nominal flexural resistance of the section as specified in Article 6.10.7.2 or 6.10.8 as applicable (ksi).
- $V_r$ : Maximum factored shear range in span computed according to Article 6.10.10.
- OCF: Obtuse Correction Factor according to Article 4.6.2.2.3c or as further simplified by IDOT provisions.
- R<sub>DC1</sub>: Un-factored reaction due to non-composite dead load (kip).
- R<sub>DC2</sub>: Un-factored reaction due to long-term composite (superimposed excluding future wearing surface) dead load (kip).
- R<sub>DW</sub>: Un-factored reaction due to long-term composite (superimposed future wearing surface only) dead load (kip).
- R <sub>$\ell$</sub> : Un-factored live load reaction (kip).
- R<sub>IM</sub>: Un-factored dynamic load allowance (impact) (kip).

R<sub>Total</sub> (Strength I)(Impact): Strength I load combination of factored design reactions (kip).  
1.25 (R<sub>DC1</sub> + R<sub>DC2</sub>) + 1.5R<sub>DW</sub> + 1.75 (R <sub>$\ell$</sub>  + R<sub>IM</sub>)

R<sub>Total</sub> (Strength I)(No Impact): Strength I load combination of factored design reactions, not including dynamic load allowance (Impact) (kip).  
1.25 (R<sub>DC1</sub> + R<sub>DC2</sub>) + 1.5R<sub>DW</sub> + 1.75 (R <sub>$\ell$</sub> )



SECTION AT PIER

SECTION AT ABUTMENT

(No. of Plates Req'd. = 18)

(No. of Plates Req'd. = 36)

\* Terminate 1/4" (±1/8") from the end of plate intersects.

MODEL: 0740089-70D61-017  
FILE NAME: J:\20102.PTB 197-031.dgn\CAD\_Sheets\0740089-70D61-016-Str\_Steel\_Details.dgn  
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GREENE & BRADFORD, INC.  
OF SPRINGFIELD  
CONSULTING ENGINEERS  
3501 CONCURRENCE DRIVE  
SPRINGFIELD, ILLINOIS 62711  
PROFESSIONAL DESIGN FIRM NO. 181-001179  
PROFESSIONAL SEAL NO. 001-001179  
(217) 799-8844, 799-4221 (F)

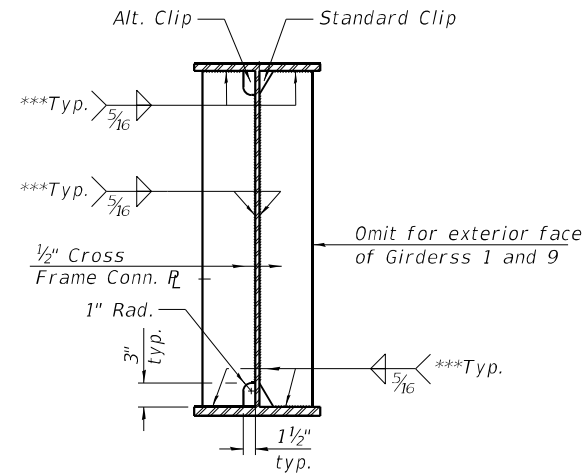
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

STRUCTURAL STEEL DETAILS  
STRUCTURE NO. 074-0089

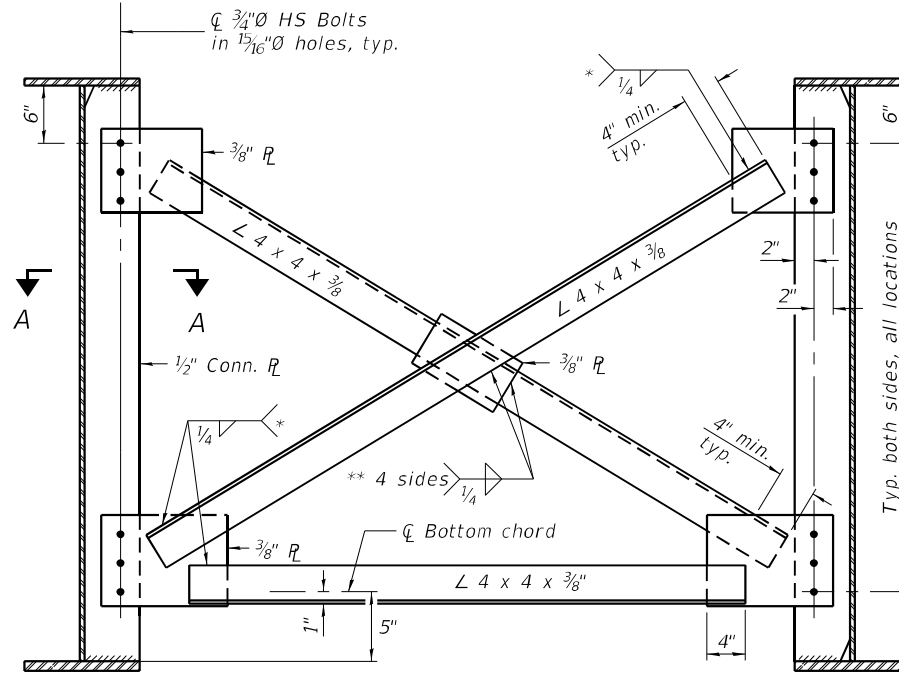
SHEET 17 OF 31 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	(74-68)BR	PIATT	105	57
CONTRACT NO. 70D61				
ILLINOIS FED. AID PROJECT				



**WELD LIMITS AND CLIP DETAILS  
AT CONNECTION PLATE LOCATIONS**

\*\*\* Terminate 1/4" (±1/8") from the end of plate intersections.

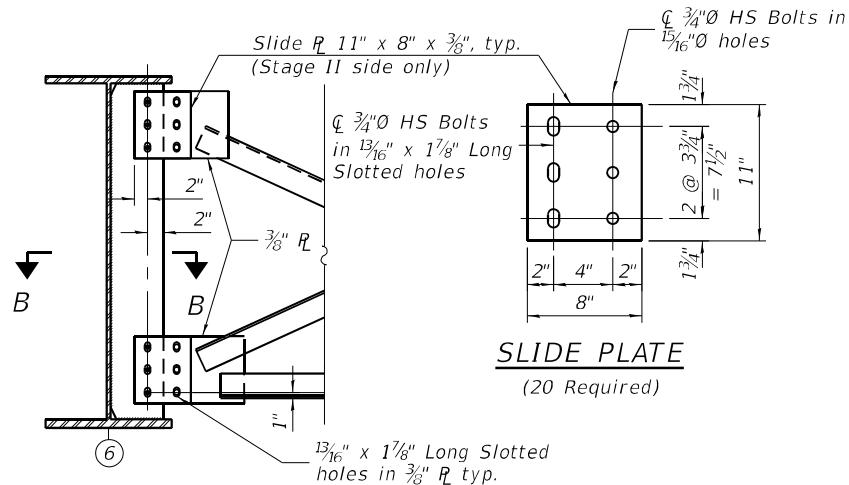


\* Fillet weld angles along 3 sides on one face of gusset plate; however, if cross-frames are galvanized, weld all-around.

\*\* If cross-frames are galvanized, weld all-around.

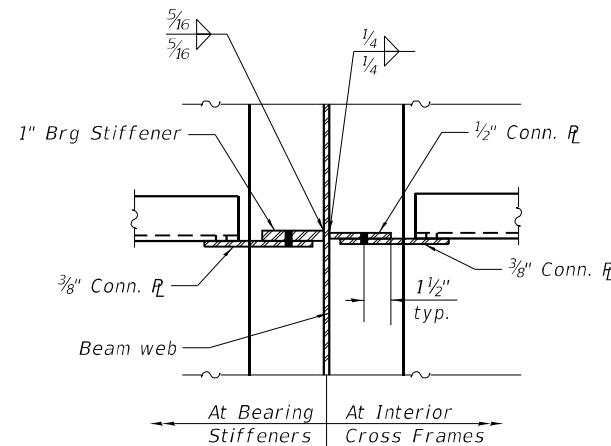
**INTERIOR CROSS-FRAME (CF)**

Notes:  
Detail 1 1/16" Ø holes for all 3/4" Ø bolts.

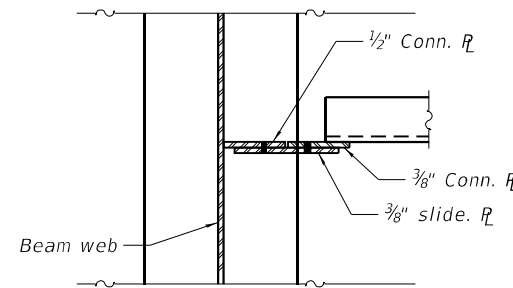


**SLIDE PLATE  
(20 Required)**

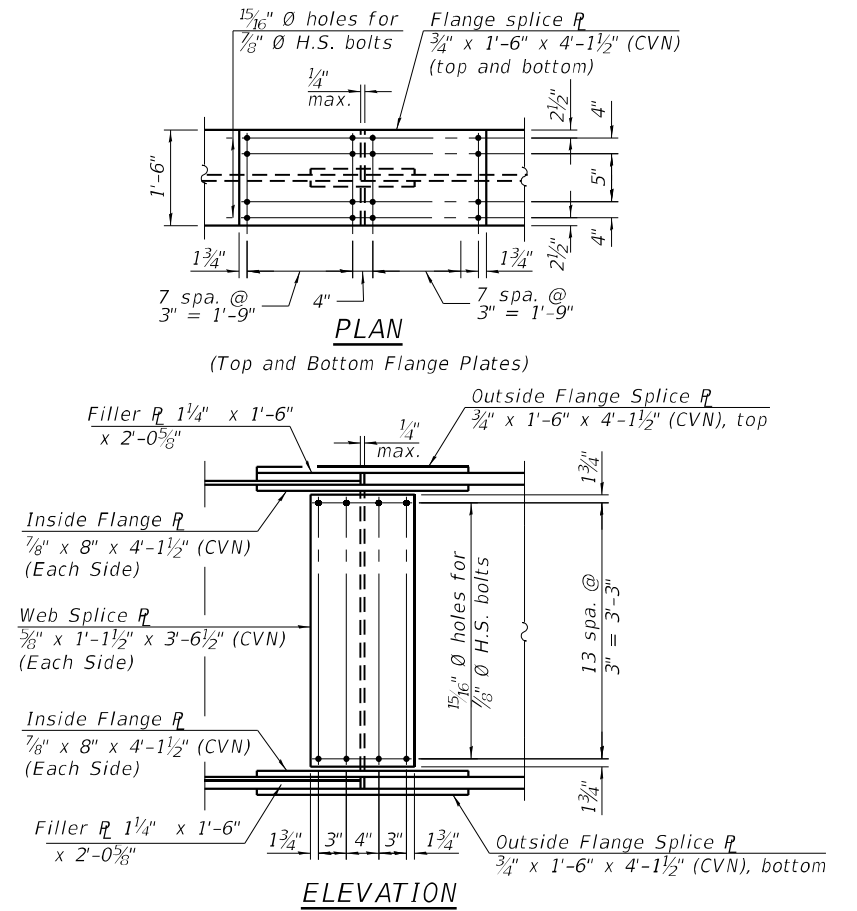
**CROSS FRAME CONNECTION "B"**



**SECTION A-A**



**SECTION B-B**



**ELEVATION**

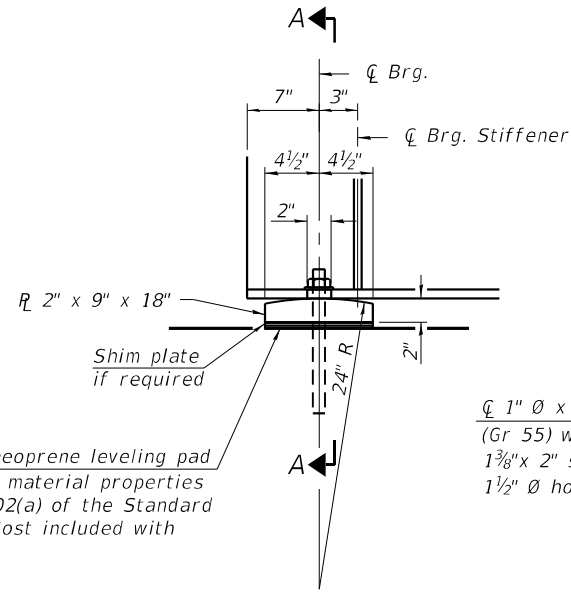
**SPLICE DETAIL  
(18 Required)**

Notes:  
Two hardened washers required for each set of oversized holes.  
All cross frames shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted. Individual cross frames at supports may be temporarily disconnected to install bearing anchor rods.  
Omit connecting plates on the exterior sides of the exterior girders.  
See Sheet 16 of 31 for locations of Cross Frame Connection "B".  
Bolts in the long slotted holes shall be finger tight until the Stage II deck pour is completed. The slotted holes in the gusset plate shall be positioned to allow the bolts to move from one end of the slotted hole to the opposite end under deck load. The holes shall be positioned allowing maximum bolt displacement without laterally stressing the beams.  
Load carrying components designated "CVN" shall conform to the Charpy-V-Notch, Impact Energy Requirement, Zone 2.

**TOP OF WEB ELEVATIONS  
(For Fabrication only)**

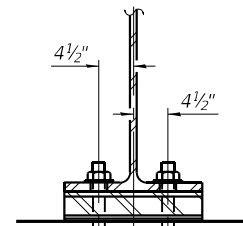
Location	Girder 1	Girder 2	Girder 3	Girder 4	Girder 5	Girder 6	Girder 7	Girder 8	Girder 9
Ø Brg. S. Abut.	695.31	695.46	695.58	695.70	695.82	695.70	695.58	695.46	695.31
Ø Splice 1	695.62	695.77	695.90	696.01	696.13	696.01	695.90	695.77	695.62
Ø Pier	695.64	695.80	696.92	696.03	696.15	696.03	695.92	695.80	695.64
Ø Splice 2	695.62	695.77	695.90	696.01	696.13	696.01	695.90	695.77	695.62
Ø Brg. N. Abut.	695.31	695.46	695.58	695.70	695.82	695.70	695.58	695.46	695.31

MODEL: 0740089-70D61-018  
FILE NAME: J:\20102.PTB 197-031 Superstructure Replacement\DOT\20102.PTB 197-031 Superstructure Replacement\DOT\20102.PTB 197-031-Str\_Steel\_Details.dgn  
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1/8" elastomeric neoprene leveling pad according to the material properties of Article 1052.02(a) of the Standard Specifications. Cost included with Structural Steel.

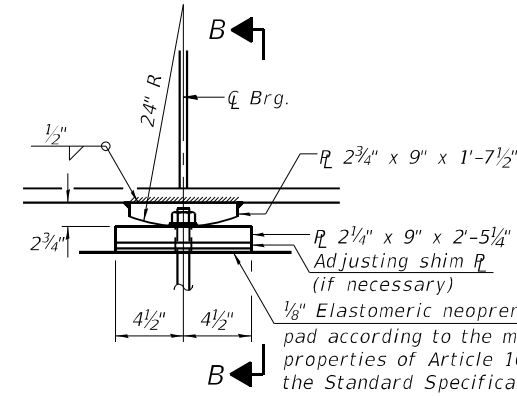
ELEVATION AT ABUTMENT



SECTION A-A

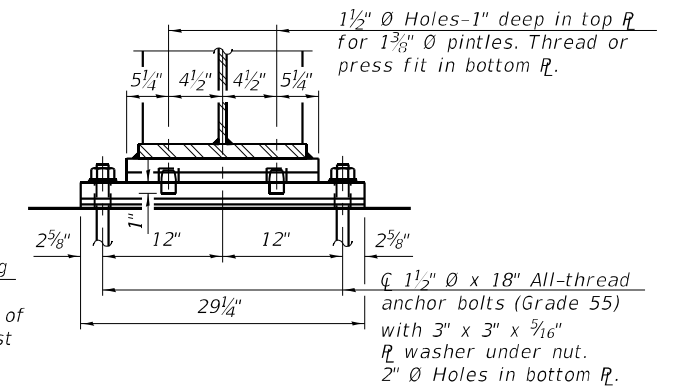
1"  $\phi$  x 12" All-thread anchor bolts (Gr 55) with 2 1/4" x 2 1/4" x 3/16"  $R$  washer under nut. 1 3/8" x 2" slotted hole in flange. 1 1/2"  $\phi$  holes in bearing plate.

FIXED BEARING (18 Required)

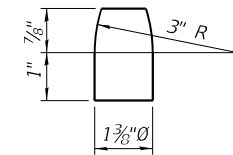


ELEVATION AT PIER

FIXED BEARING (9 Required)



SECTION B-B



PINTLE

Notes:

- Anchor bolts shall be according to Article 521.06 of the Standard Specifications.
- Beams shall be braced for stability during erection and remain braced until deck is poured and cured.
- Anchor bolts at all supports shall be installed as each member is erected unless an equivalent temporary means of lateral restraint is used.
- The structural steel plates and pintels shall conform to the requirements of AASHTO M 270 Grade 50.
- Two 1/8 in. adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.

BILL OF MATERIAL

Item	Unit	Total
Anchor Bolts, 1"	Each	36
Anchor Bolts, 1 1/2"	Each	18

MODEL: 0740089-70D61-018  
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GREENE & BRADFORD, INC.  
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 3501 CASCADILLA DRIVE  
 SPRINGFIELD, ILLINOIS 62711  
 PROFESSIONAL DESIGN FIRM NO. 181-001179  
 PROFESSIONAL SEAL NO. 001-1179-001179-001179-001179-001179

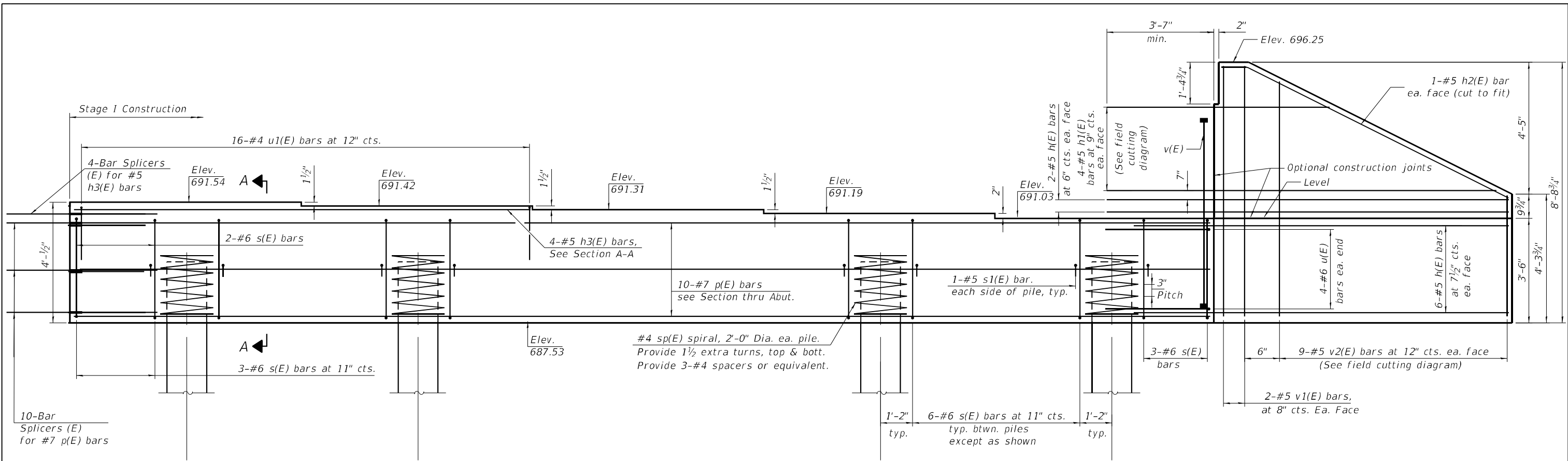
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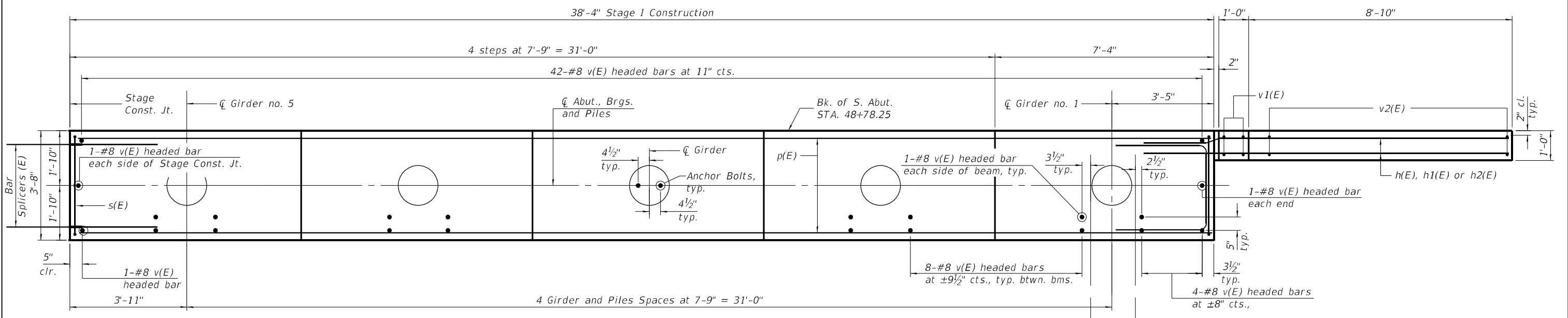
BEARING DETAILS  
 STRUCTURE NO. 074-0089  
 SHEET 19 OF 31 SHEETS

F.A.I. RTE. 72	SECTION (74-68)BR	COUNTY PIATT	TOTAL SHEETS 105	SHEET NO. 59
CONTRACT NO. 70D61				
ILLINOIS FED. AID PROJECT				

0740089-70D61-019  
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**ELEVATION**  
 (Looking South- Showing Stage I Construction)



**PLAN**

**GREENE & BRADFORD, INC.**  
 OF SPRINGFIELD  
 CONSULTING ENGINEERS  
 3501 CONSTITUTION DRIVE  
 SPRINGFIELD, ILLINOIS 62711  
 PROFESSIONAL DESIGN FIRM NO. 181-003178  
 PROFESSIONAL SEAL NO. 000-00000000  
 (217) 793-8844, 793-4233 (F)

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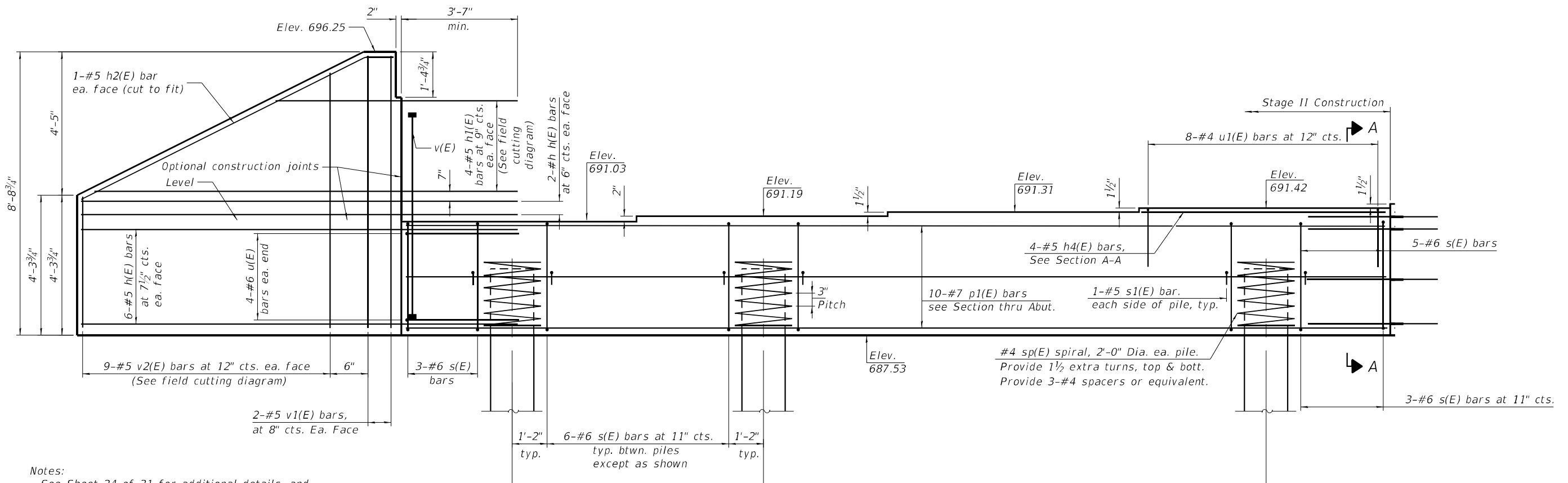
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**SOUTH ABUTMENT-STAGE I CONSTRUCTION**  
**STRUCTURE NO. 074-0089**

SHEET 20 OF 31 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	(74-68)BR	PIATT	105	60
CONTRACT NO. 70D61				

ILLINOIS FED. AID PROJECT

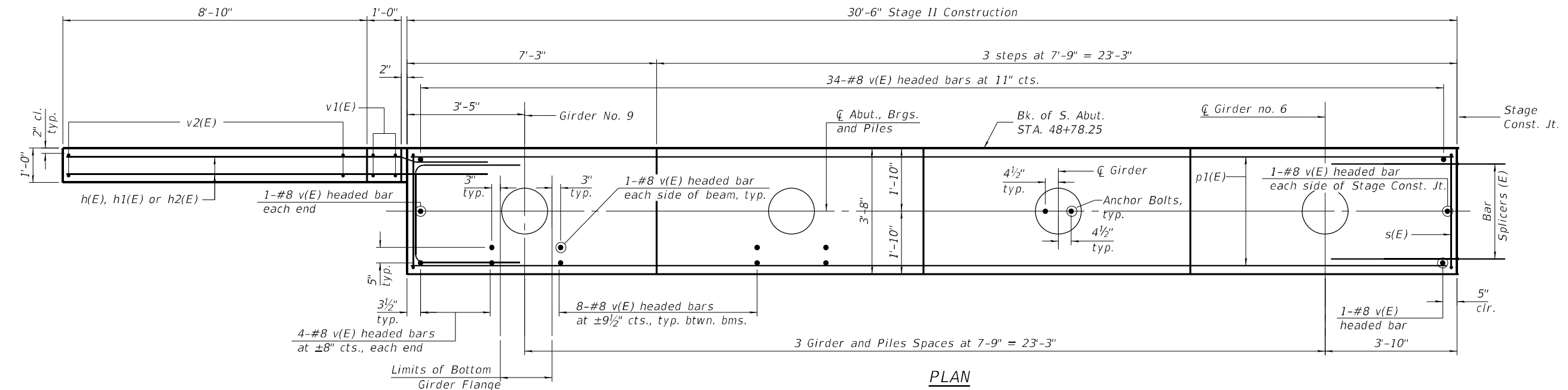


Notes:  
 See Sheet 24 of 31 for additional details, and Bill of Materials.  
 Pour steps monolithically with cap.  
 Headed bars shall conform to ASTM A970 with threaded attachment; Class HA; and reinforcement bars conforming to ASTM A706. Cost included with Reinforcement Bars, Epoxy Coated.  
 For details of piles see sheet 27 of 31.

**ELEVATION**  
 (Looking South - Showing Stage II Construction)

\* Piles shall be driven through 30" diameter pre-cored holes extending to elevation 678.0 according to Art. 512.09 (c) of the Standard Specifications except that the void space outside of the pile shall be filled with bentonite according to the manufacturers recommendations to achieve a  $Q_u$  of 1.5 tsf. Cost included in driving piles.

**PILE DATA**  
 Type\*: Metal Shell 16"x0.375" Walls w/ Pile Shoes  
 Nominal Required Bearing: 612 kips  
 Factored Resistance Available: 337 kips  
 Est. Length: 50 ft  
 No. Production Piles: 8  
 No. Test Piles: 1



**PLAN**

MODEL: 0740089-70D61-019 PTB 197-031.dgn CAD\_Sheets\0740089-70D61-019-South\_Abutment\_Stage II.dgn

**GREENE & BRADFORD, INC.**  
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 CONSULTING ENGINEERS  
 3501 CLARKSTON DRIVE  
 SPRINGFIELD, ILLINOIS 62711  
 PROFESSIONAL DESIGN FIRM NO. 181-003178  
 LICENSE NO. 0311-00000000-0000-0000-0000-00000000  
 (217) 799-8844, 799-4223 (F)

USER NAME = kashifs	DESIGNED - MAC	REVISED -
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PLOT DATE = 4/20/2023	DRAWN - PG	REVISED -
	CHECKED - KAS	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**SOUTH ABUTMENT-STAGE II CONSTRUCTION**  
**STRUCTURE NO. 074-0089**

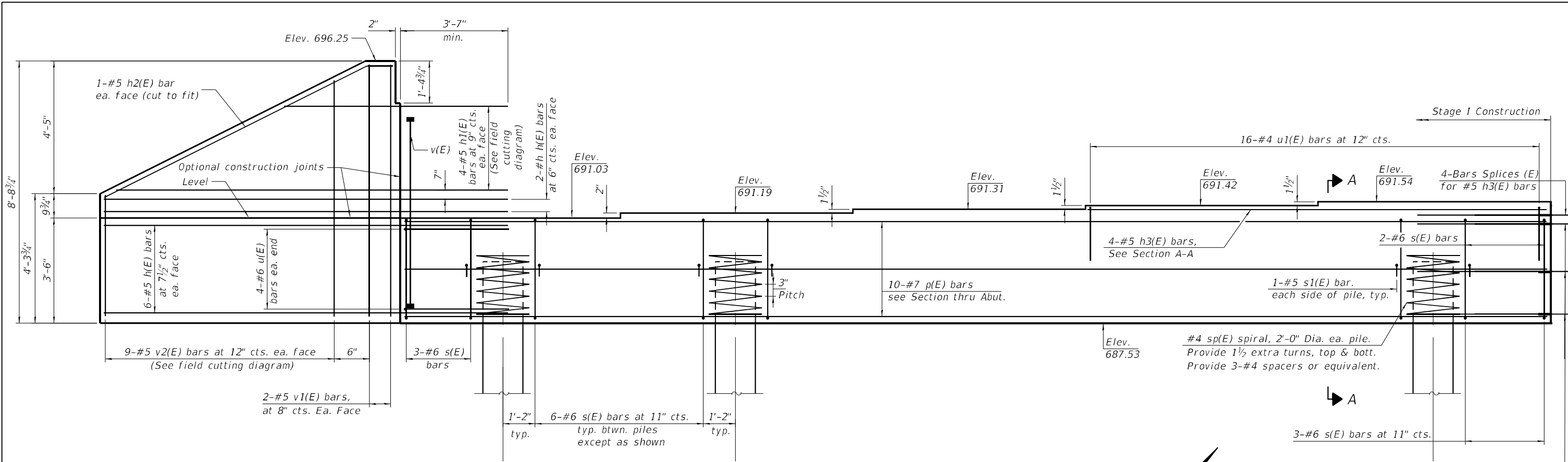
SHEET 21 OF 31 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	(74-68)BR	PIATT	105	61
CONTRACT NO. 70D61				

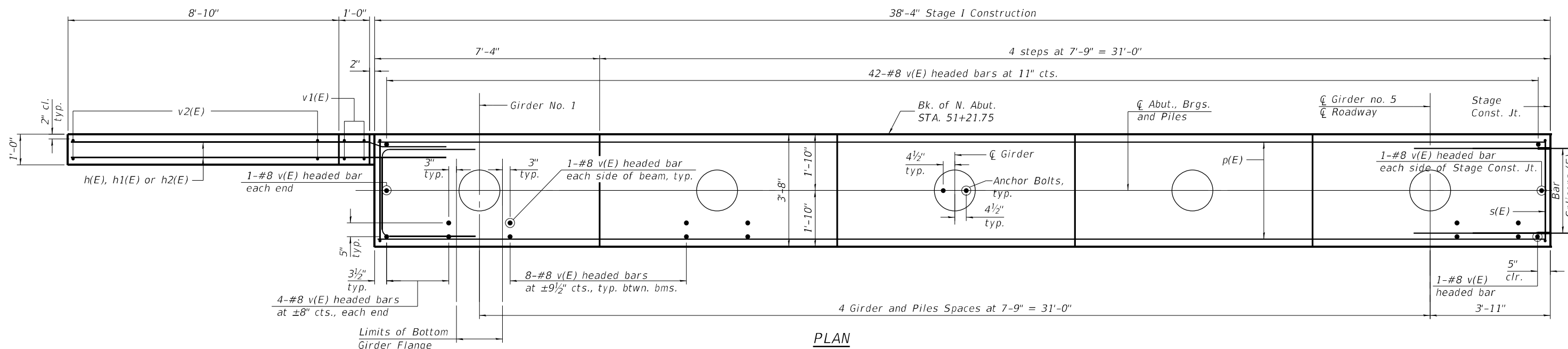
ILLINOIS FED. AID PROJECT

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 PTB 197-031 Superstructure Replacement\DOT\20102.PTB



**ELEVATION**  
 (Looking North - Showing Stage I Construction)



**PLAN**

**GREENE & BRADFORD, INC.**  
 OF SPRINGFIELD  
 CONSULTING ENGINEERS  
 3501 CINCINNATI DRIVE  
 SPRINGFIELD, ILLINOIS 62711  
 PROFESSIONAL DESIGN FIRM NO. 181-001179  
 PROFESSIONAL SEAL NO. 001-001179  
 (217) 799-8844, 799-4223 (F)

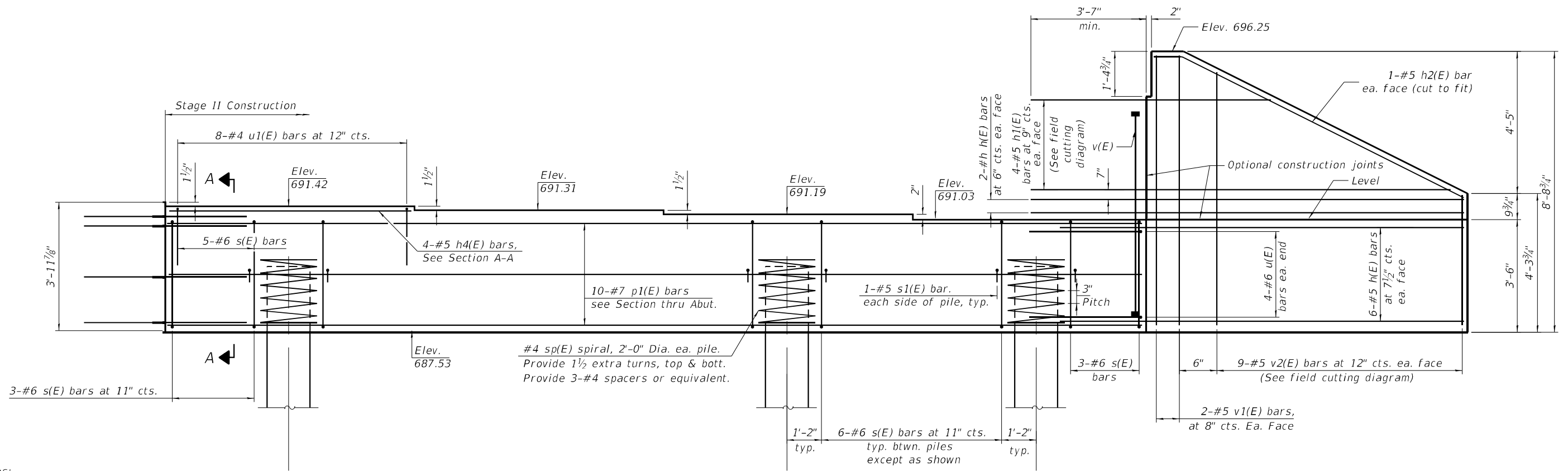
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PLOT DATE = 4/20/2023	DRAWN - PG	REVISED -
	CHECKED - KAS	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**NORTH ABUTMENT-STAGE I CONSTRUCTION**  
**STRUCTURE NO. 074-0089**

SHEET 22 OF 31 SHEETS

F.A.I. RTE. 72	SECTION (74-68)BR	COUNTY PIATT	TOTAL SHEETS 105	SHEET NO. 62
CONTRACT NO. 70D61			ILLINOIS FED. AID PROJECT	



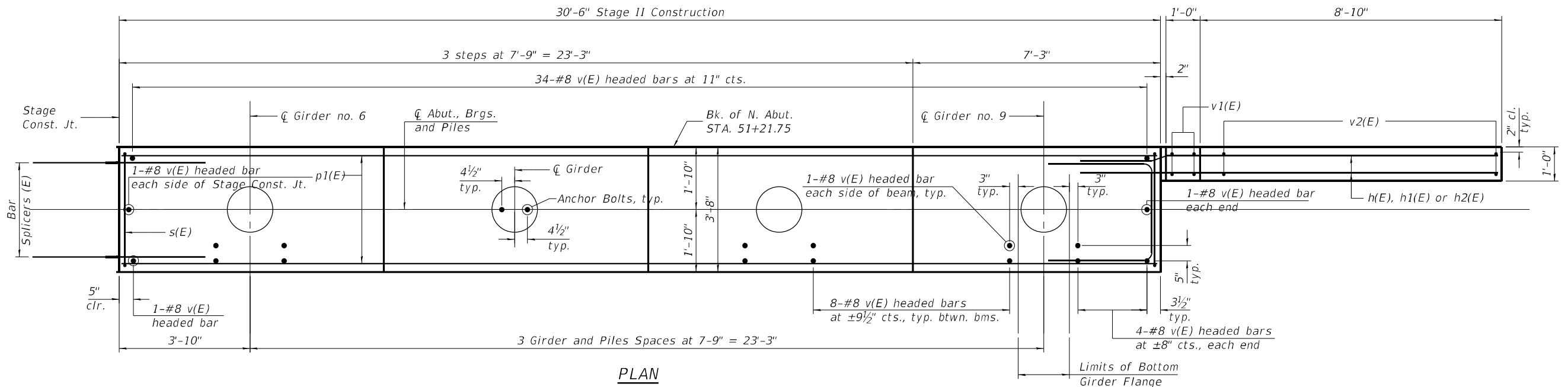
Notes:  
 See Sheet 24 of 31 for additional details, and Bill of Materials.  
 Pour steps monolithically with cap.  
 Headed bars shall conform to ASTM A970 with threaded attachment; Class HA; and reinforcement bars conforming to ASTM A706. Cost included with Reinforcement Bars, Epoxy Coated.  
 For details of piles see sheet 27 of 31.

**ELEVATION**  
 (Looking North - Showing Stage II Construction)

\* Piles shall be driven through 30" diameter pre-cored holes extending to elevation 678.0 according to Art. 512.09 (c) of the Standard Specifications except that the void space outside of the pile shall be filled with bentonite according to the manufacturers recommendations to achieve a  $Q_u$  of 1.5 tsf. Cost included in driving piles.

**PILE DATA**

Type\*: Metal Shell 16"x0.375" Walls w/ Pile Shoes  
 Nominal Required Bearing: 609 kips  
 Factored Resistance Available: 335 kips  
 Est. Length: 53 ft  
 No. Production Piles: 8  
 No. Test Piles: 1



**PLAN**

0740089-70D61-019  
 FILE NAME: J:\20102.PTB 197-031.dgn\CAD\_Sheets\0740089-70D61-021-North\_Abutment\_Stage II.dgn

**GREENE & BRADFORD, INC.**  
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 3501 CONCERNION DRIVE  
 SPRINGFIELD, ILLINOIS 62711  
 PROFESSIONAL DESIGN FIRM NO. 181-001179  
 PROFESSIONAL SEAL NO. 001-001179  
 (217) 798-8844, 795-4223 (F)

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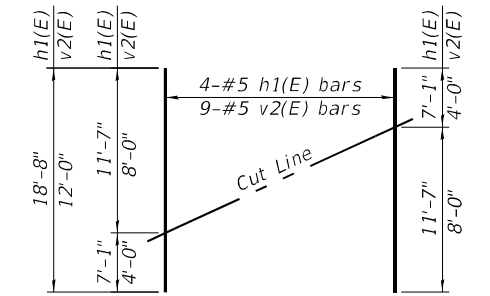
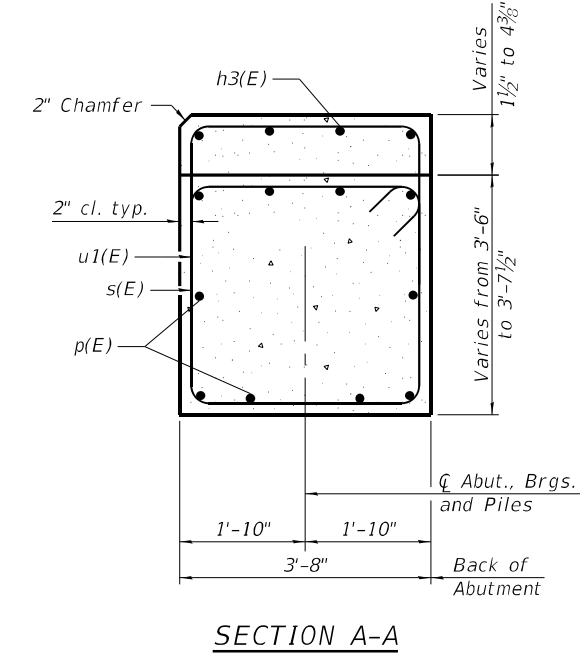
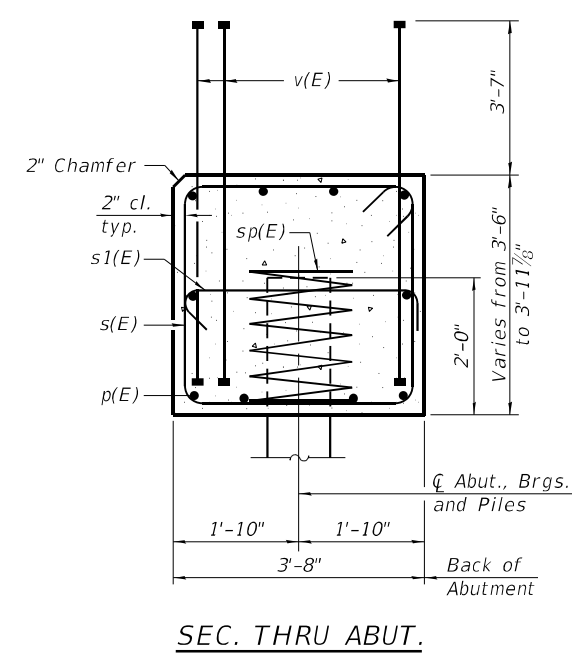
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**NORTH ABUTMENT-STAGE II CONSTRUCTION**  
**STRUCTURE NO. 074-0089**

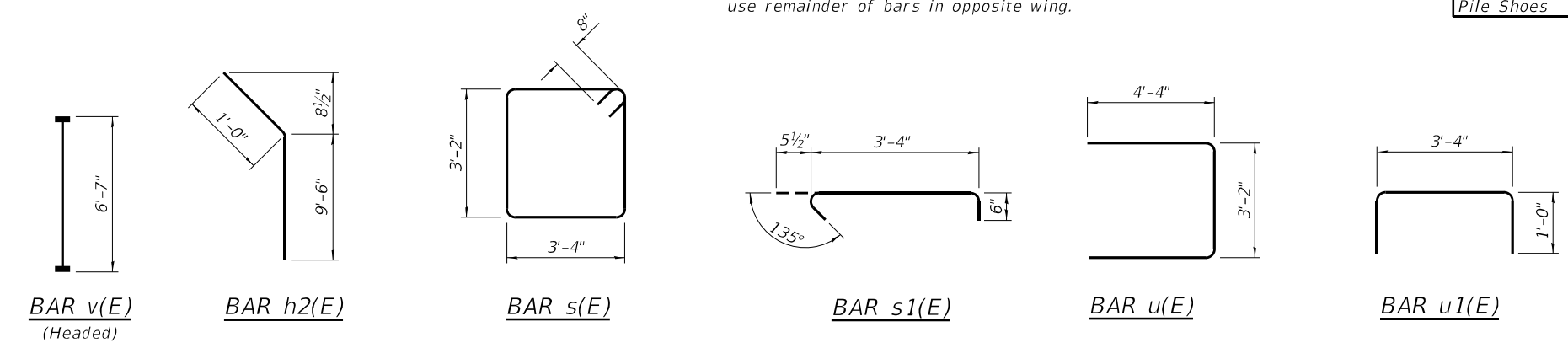
SHEET 23 OF 31 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	(74-68)BR	PIATT	105	63
CONTRACT NO. 70D61				
ILLINOIS FED. AID PROJECT				

Notes:  
 Pour steps monolithically with cap.  
 Headed bars shall conform to ASTM A970 with threaded attachment; Class HA; and reinforcement bars conforming to ASTM A706. Cost included with Reinforcement Bars, Epoxy Coated.  
 For details of piles see sheet 27 of 31.



**FIELD CUTTING DIAGRAM**  
 Order h1(E) and v2(E) full length. Cut as shown and use remainder of bars in opposite wing.



**NORTH ABUTMENT  
 BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h(E)	32	#5	13'-5"	—
h1(E)	8	#5	18'-8"	—
h2(E)	4	#5	10'-6"	—
h3(E)	4	#5	15'-5"	—
h4(E)	4	#5	7'-6"	—
p(E)	10	#7	38'-0"	—
p1(E)	10	#7	30'-2"	—
s(E)	55	#6	14'-4"	—
s1(E)	18	#5	4'-4"	—
sp(E)	9	#4	2'-0"	—
u(E)	8	#6	11'-10"	—
u1(E)	20	#4	5'-4"	—
v(E)	162	#8	6'-7"	—
v1(E)	8	#5	8'-4"	—
v2(E)	18	#5	12'-0"	—
Structure Excavation		Cu. Yd.	224	
Concrete Structures		Cu. Yd.	39.8	
Reinforcement Bars, Epoxy Coated		Pound	6770	
Furnishing Metal Shell Piles, 16"x0.375"		Foot	424	
Driving Piles		Foot	424	
Test Pile Metal Shells		Each	1	
Pile Shoes		Each	9	

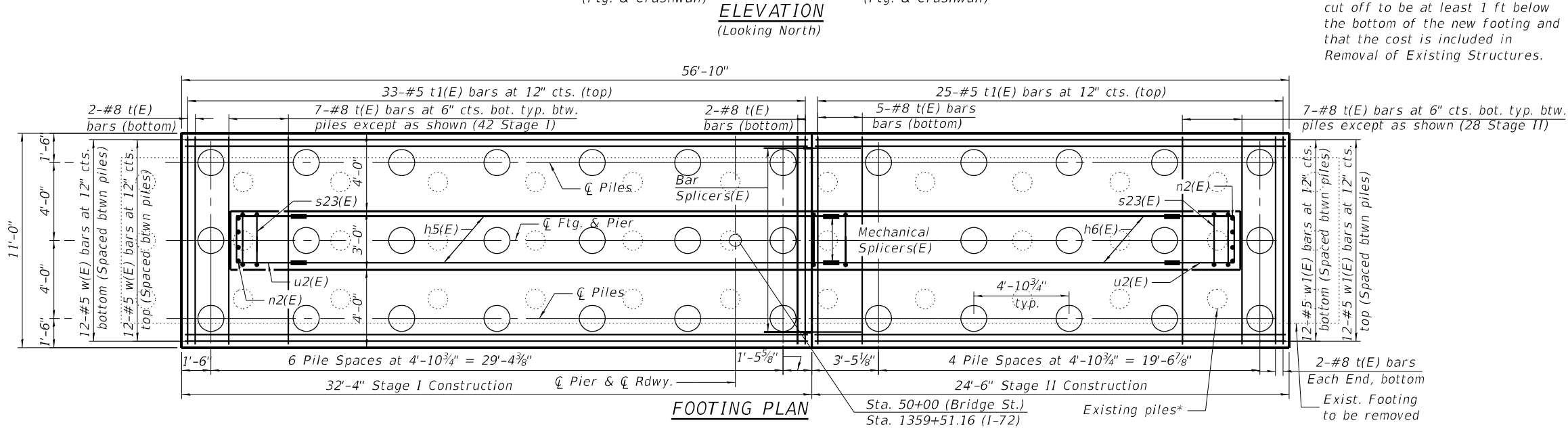
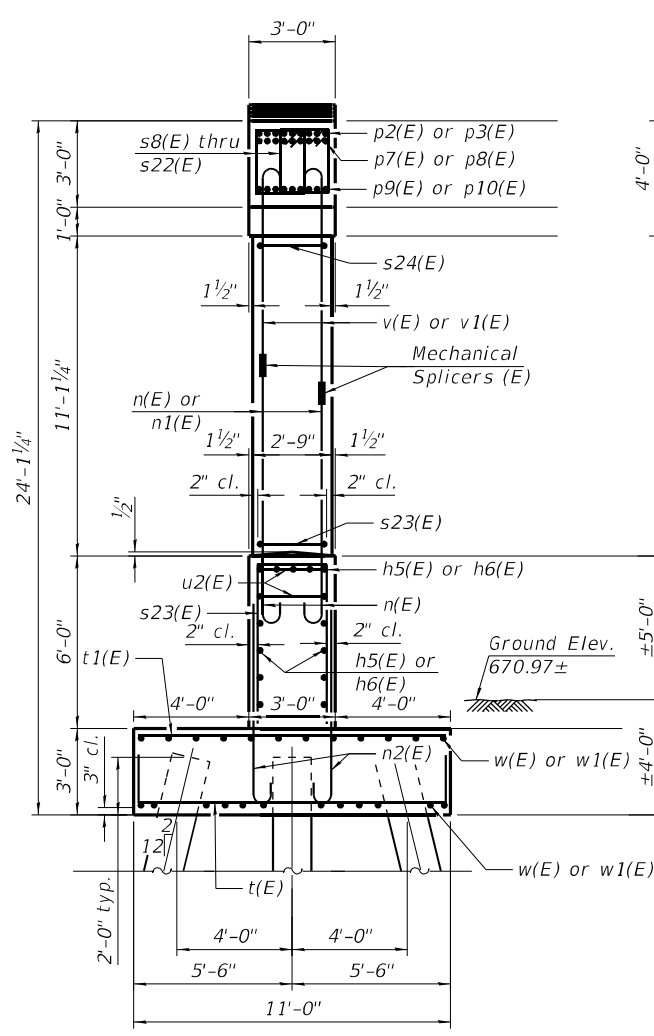
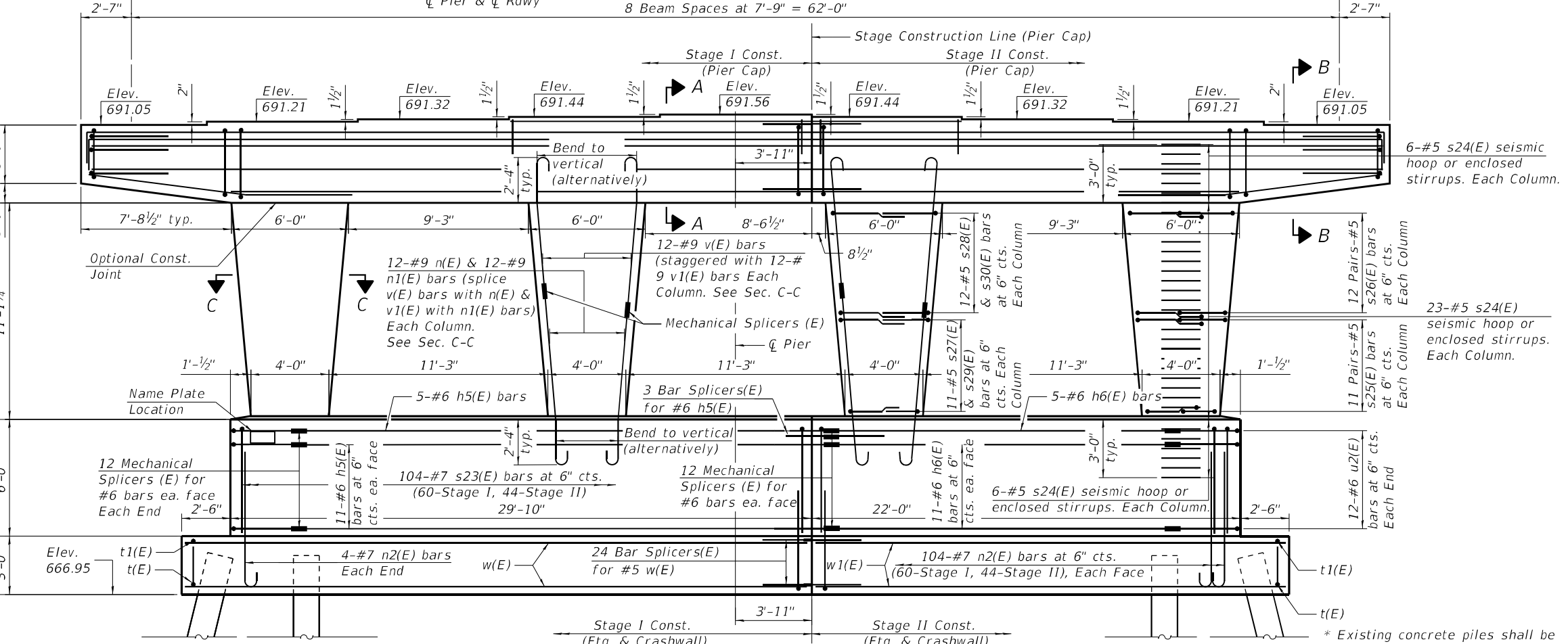
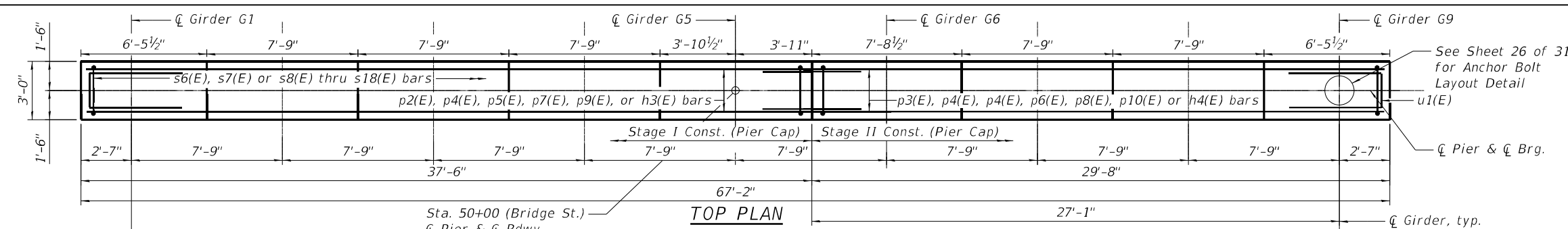
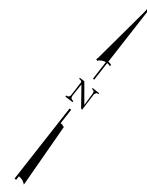
**SOUTH ABUTMENT  
 BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h(E)	32	#5	13'-5"	—
h1(E)	8	#5	18'-8"	—
h2(E)	4	#5	10'-6"	—
h3(E)	4	#5	15'-5"	—
h4(E)	4	#5	7'-6"	—
p(E)	10	#7	38'-0"	—
p1(E)	10	#7	30'-2"	—
s(E)	55	#6	14'-4"	—
s1(E)	18	#5	4'-4"	—
sp(E)	9	#4	2'-0"	—
u(E)	8	#6	11'-10"	—
u1(E)	20	#4	5'-4"	—
v(E)	162	#8	6'-7"	—
v1(E)	8	#5	8'-4"	—
v2(E)	18	#5	12'-0"	—
Structure Excavation		Cu. Yd.	224	
Concrete Structures		Cu. Yd.	39.8	
Reinforcement Bars, Epoxy Coated		Pound	6770	
Furnishing Metal Shell Piles, 16"x0.375"		Foot	400	
Driving Piles		Foot	400	
Test Pile Metal Shells		Each	1	
Pile Shoes		Each	9	

\* Length is height of spiral.

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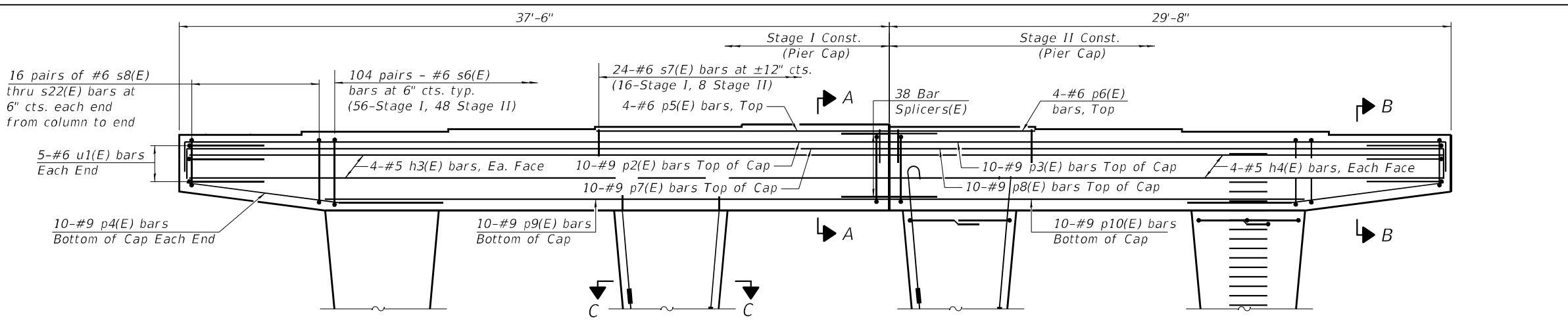
Notes:  
 Space reinforcement in cap to miss anchor bolts.  
 Pour steps monolithically with cap.  
 For details of piles, see sheet 26 of 31.  
 For details of the bar splicers, see sheet 28 of 31.

**PILE DATA**  
 Type: Metal Shell 16"x0.375" Walls w/ Pile Shoes  
 Nominal Required Bearing: 500 kips  
 Factored Resistance Available: 275 kips  
 Est. Length: 35 ft  
 No. Production Piles: 35  
 No. Test Piles: 1

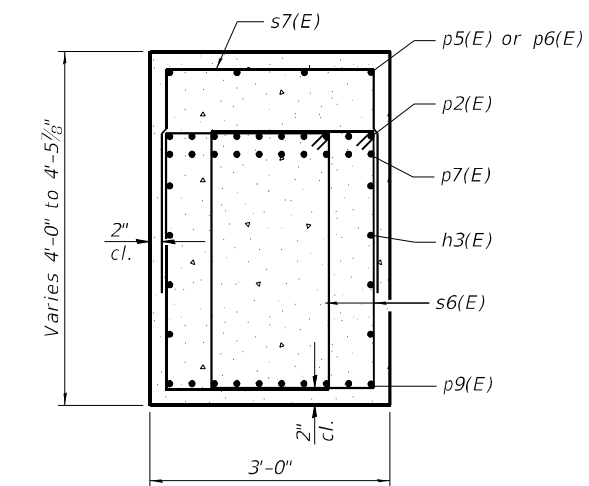
\* Existing concrete piles shall be cut off to be at least 1 ft below the bottom of the new footing and that the cost is included in Removal of Existing Structures.

MODEL: 0740089-70D61-021  
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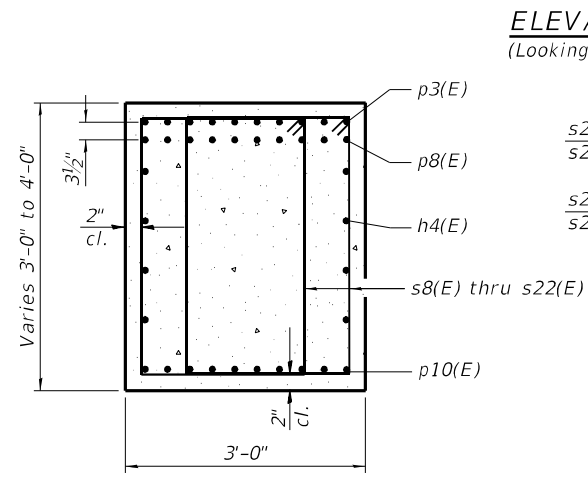
<b>GREENE &amp; BRADFORD, INC.</b> OF SPRINGFIELD <small>CONSULTING ENGINEERS          3501 CONCURRENCE DRIVE          SPRINGFIELD, ILLINOIS 62711          PROFESSIONAL DESIGN FIRM NO. 181-001179          PROFESSIONAL SEAL NO. 001-001179-001-001179-001-001179          (217) 799-8844, 799-4223 (F)</small>	USER NAME = kashifs	DESIGNED - MAC	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>PIER</b> <b>STRUCTURE NO. 074-0089</b>	F.A.I. RTE. = 72	SECTION = (74-68)BR	COUNTY = PIATT	TOTAL SHEETS = 105	SHEET NO. = 65
	PLOT SCALE =	DRAWN - PG	REVISED -			SHEET 25 OF 31 SHEETS	ILLINOIS	FED. AID PROJECT		
PLOT DATE = 4/20/2023	CHECKED - KAS	REVISED -		CONTRACT NO. 70D61						



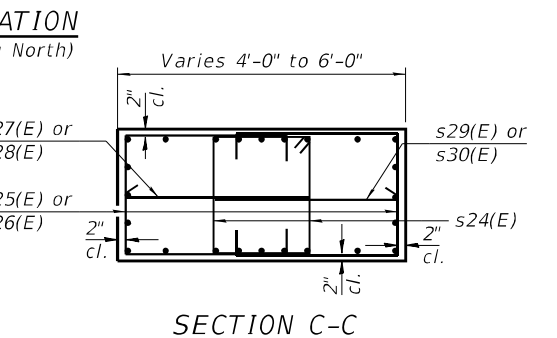
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(Looking North)



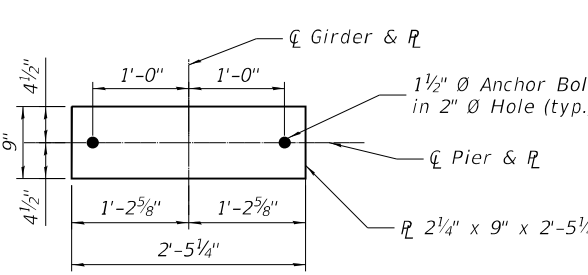
**SECTION A-A**



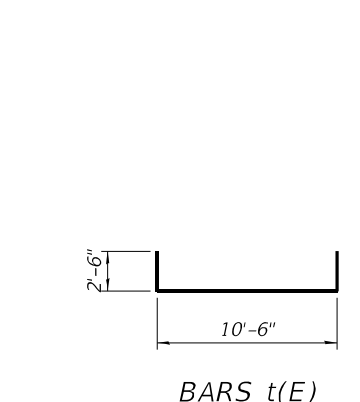
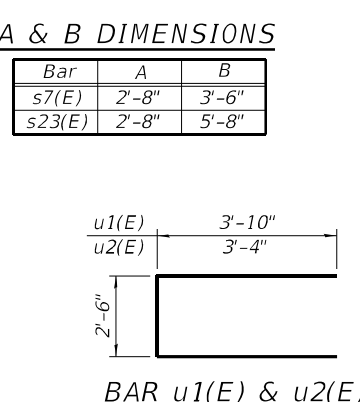
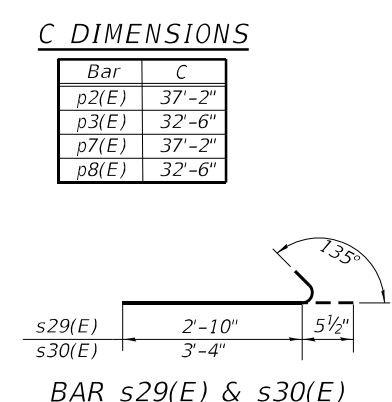
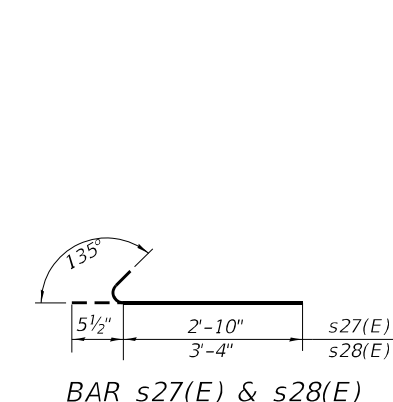
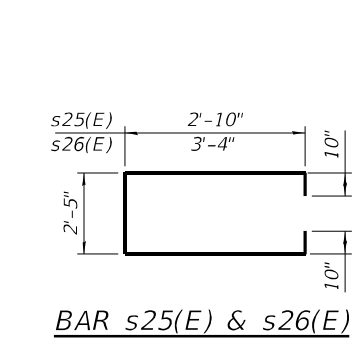
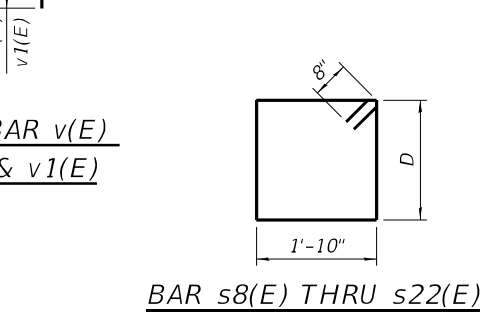
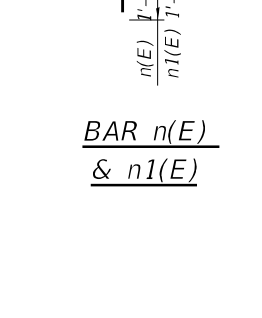
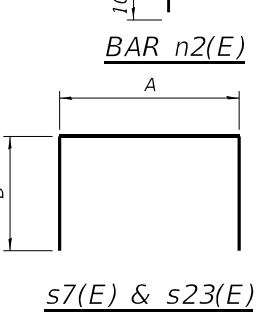
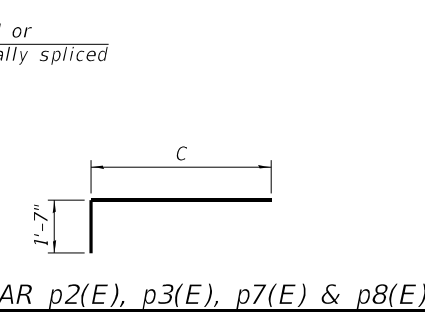
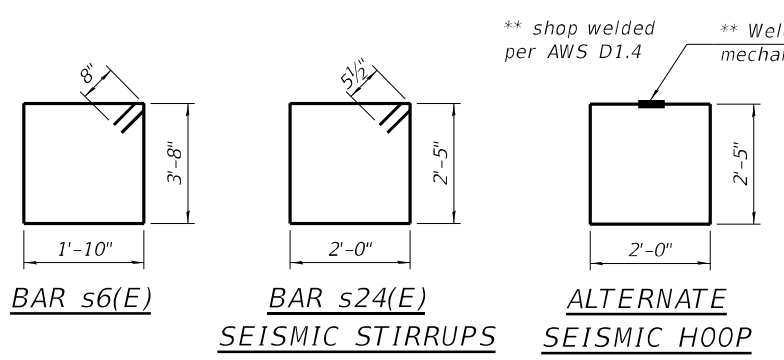
**SECTION B-B**



**SECTION C-C**



**ANCHOR BOLT LAYOUT**



**C DIMENSIONS**

Bar	C
p2(E)	37'-2"
p3(E)	32'-6"
p7(E)	37'-2"
p8(E)	32'-6"

**A & B DIMENSIONS**

Bar	A	B
s7(E)	2'-8"	3'-6"
s23(E)	2'-8"	5'-8"

**D DIMENSIONS**

Bar	D
s8(E)	3'-7"
s9(E)	3'-6"
s10(E)	3'-5 1/2"
s11(E)	3'-4 1/2"
s12(E)	3'-4"
s13(E)	3'-3"
s14(E)	3'-2 1/2"
s15(E)	3'-1 1/2"
s16(E)	3'-0 1/2"
s17(E)	3'-0"
s18(E)	2'-11"
s19(E)	2'-10 1/2"
s20(E)	2'-9 1/2"
s21(E)	2'-9"
s22(E)	2'-8"

**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h3(E)	8	#5	37'-2"	
h4(E)	8	#5	29'-4"	
h5(E)	27	#6	27'-4"	
h6(E)	27	#6	17'-6"	
n(E)	48	#9	9'-2 1/4"	
n1(E)	48	#9	10'-2 1/4"	
n2(E)	216	#7	9'-3"	
p2(E)	10	#9	38'-9"	
p3(E)	10	#9	30'-11"	
p4(E)	20	#9	13'-2"	
p5(E)	4	#6	15'-5"	
p6(E)	4	#6	7'-8"	
p7(E)	10	#9	38'-9"	
p8(E)	10	#9	30'-11"	
p9(E)	10	#9	29'-9"	
p10(E)	10	#9	22'-0"	
s6(E)	208	#6	12'-4"	
s7(E)	24	#6	9'-8"	
s8(E)	4	#6	12'-2"	
s9(E)	4	#6	12'-0"	
s10(E)	4	#6	11'-11"	
s11(E)	4	#6	11'-10"	
s12(E)	4	#6	11'-8"	
s13(E)	4	#6	11'-6"	
s14(E)	4	#6	11'-5"	
s15(E)	4	#6	11'-3"	
s16(E)	4	#6	11'-1"	
s17(E)	4	#6	11'-0"	
s18(E)	4	#6	10'-10"	
s19(E)	4	#6	10'-9"	
s20(E)	4	#6	10'-7"	
s21(E)	4	#6	10'-6"	
s22(E)	4	#6	10'-4"	
s23(E)	104	#7	14'-0"	
s24(E)	140	#5	9'-9"	
s25(E)	88	#5	9'-9"	
s26(E)	96	#5	10'-9"	
s27(E)	44	#5	3'-3 1/2"	
s28(E)	48	#5	3'-9 1/2"	
s29(E)	44	#5	3'-3 1/2"	
s30(E)	48	#5	3'-9 1/2"	
t(E)	81	#8	15'-6"	
t1(E)	58	#5	10'-6"	
u1(E)	10	#6	10'-2"	
u2(E)	24	#6	9'-2"	
v(E)	48	#9	9'-1"	
v1(E)	48	#9	8'-1"	
w(E)	24	#5	30'-0"	
w1(E)	24	#5	24'-2"	
Structure Excavation		Cu. Yd.	138.0	
Concrete Structures		Cu. Yd.	157.3	
Reinforcement Bars, Epoxy Coated		Pound	37,810	
Furnishing Metal Shell Piles, 16"x0.375"		Foot	1,225	
Driving Piles		Foot	1,225	
Test Pile Metal Shells		Each	1	
Pile Shoes		Each	36	

MODEL: 0740089-70D61-021  
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 SHEETS\0740089-70D61-024-Pier\_Details.dgn  
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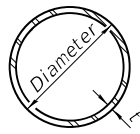
**GREENE & BRADFORD, INC.**  
 OF SPRINGFIELD  
 CONSULTING ENGINEERS  
 3501 CARROLLTON DRIVE  
 SPRINGFIELD, ILLINOIS 62711  
 PROFESSIONAL DESIGN FIRM NO. 181-001179  
 LICENSE NO. 0219-00000000-0000-0000-0000-00000000  
 (217) 799-8844, 799-4222 (F)

USER NAME = kashifs	DESIGNED - MAC	REVISED -
PLOT SCALE =	CHECKED - KAS	REVISED -
PLOT DATE = 4/20/2023	DRAWN - PG	REVISED -
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

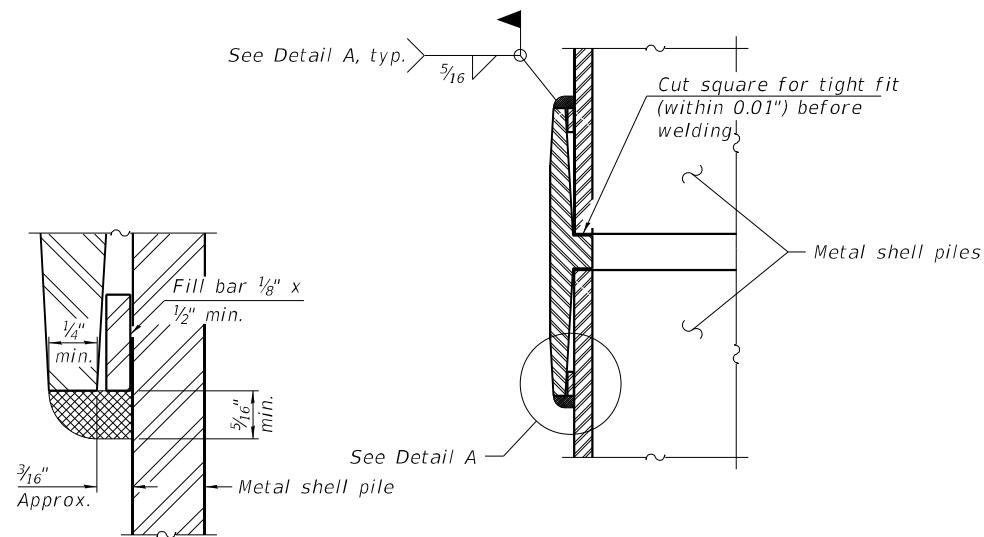
**PIER DETAILS**  
**STRUCTURE NO. 074-0089**  
 SHEET 26 OF 31 SHEETS

F.A.I. RTE. 72	SECTION (74-68)BR	COUNTY PIATT	TOTAL SHEETS 105	SHEET NO. 66
			CONTRACT NO. 70D61	
		ILLINOIS FED. AID PROJECT		

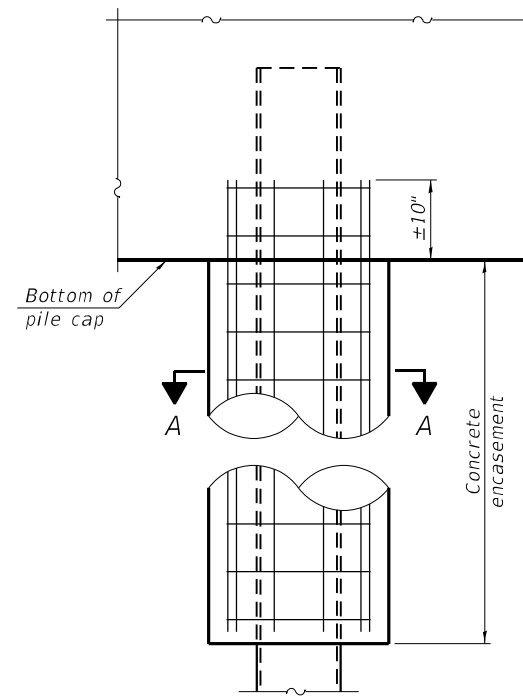


**METAL SHELL PILE TABLE**

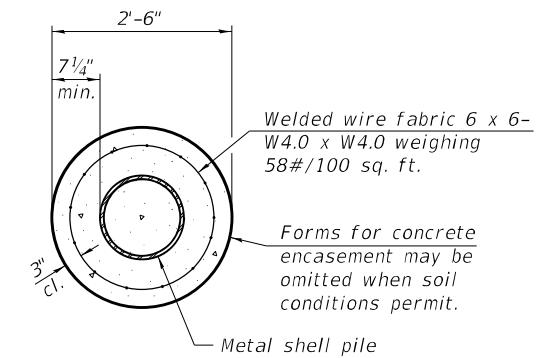
Designation and outside diameter	Wall thickness t	Weight per foot (Lbs./ft.)	Inside volume (yd. <sup>3</sup> /ft.)
PP12	0.250"	31.37	0.0267
PP14	0.250"	36.71	0.0368
PP14	0.312"	45.61	0.0361
PP16	0.312"	52.32	0.0478
PP16	0.375"	62.64	0.0470



**DETAIL A**

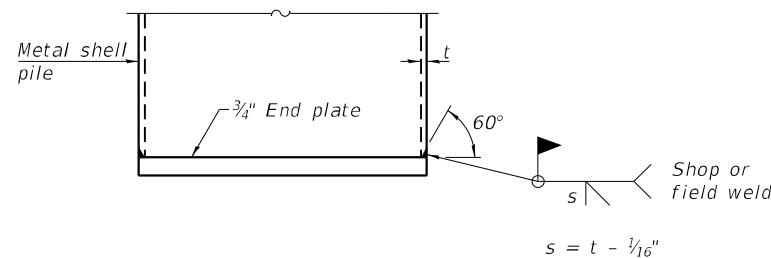


**ELEVATION**



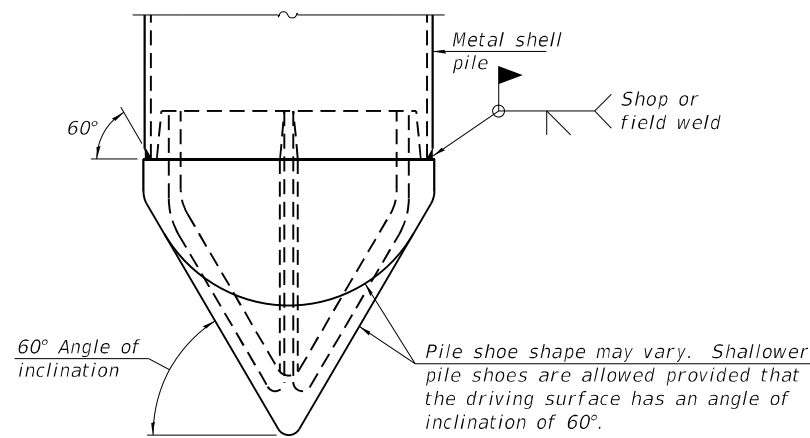
**SECTION A-A**

**INDIVIDUAL PILE CONCRETE ENCASUREMENT**  
(When specified)



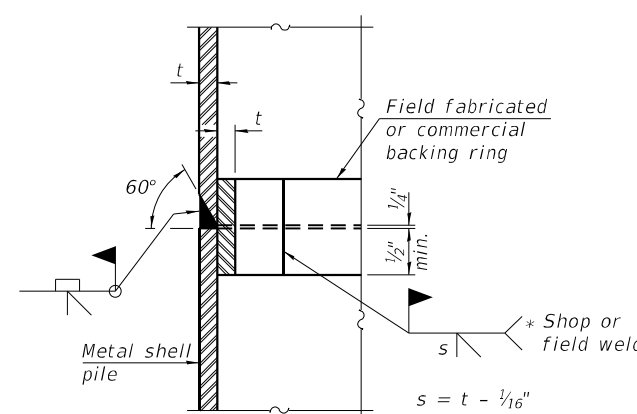
**END PLATE ATTACHMENT**

**WELDED COMMERCIAL SPLICE**  
Notes:  
The 1/8" x 1/2" min. fill bar may be constructed of 2 bars with a 1/8" max. gap between them.  
Pile segments shall be driven to solid contact with splicer before welding.

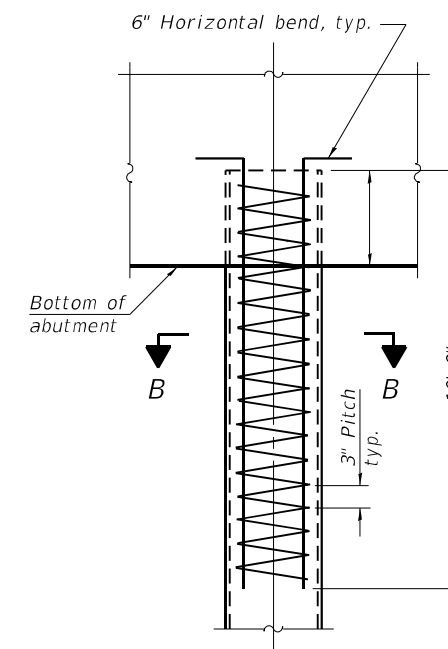


**PILE SHOE ATTACHMENT**

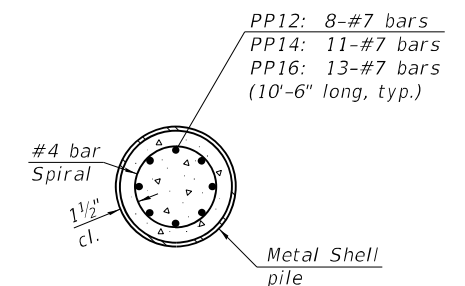
(When called for on the plans, the Contractor shall furnish metal shell pile shoes consisting of a single piece conical pile point as shown. The pile shoes shall be cast in one piece steel according to either ASTM A 148 Grade 80-50 or AASHTO M 103 Grade 65-35 and shall provide full bearing over the full circumference of the metal shell pile. The pile shoe shall have tapered leads to assure proper alignment and fitting and shall be secured to the pile with a circumferential weld).



**COMPLETE PENETRATION WELD SPLICE**  
\* Field fabricated backing ring may be made from pile shell by removing segment to allow reducing circumference and vertically rejoin with partial joint penetration weld.



**ELEVATION**



**SECTION B-B**

**REINFORCEMENT AT ABUTMENTS**  
(Omit when concrete encasement is specified)

Note:  
The metal shell piles shall be according to Article 1006.05 of the Standard Specifications.

MODEL: 0740089-70D61-022  
FILE NAME: J:\20102.PTB 197-031.dgn\CAD\_Sheets\0740089-70D61-025-Metal\_Shell\_Piles.dgn  
DATE: 4/20/2023 8:43:07 PM

F-MS 1-1-2020



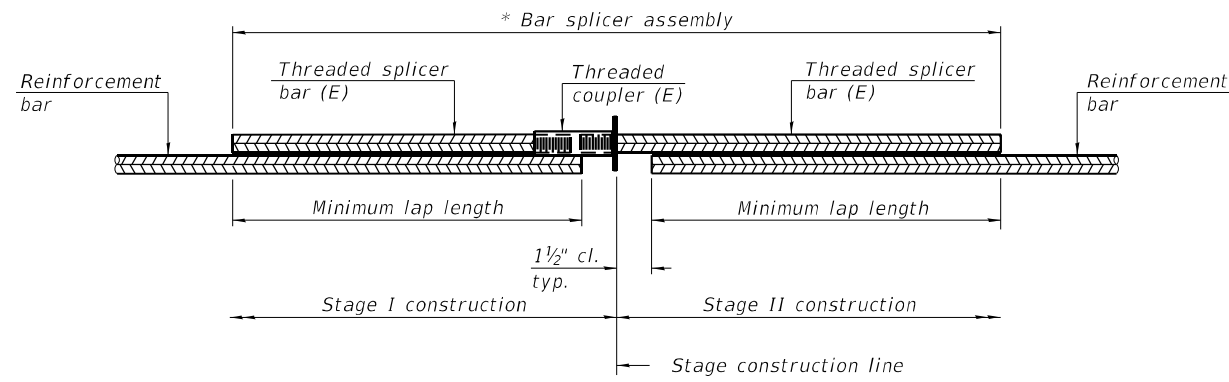
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PLOT SCALE =	CHECKED - KAS	REVISED -
PLOT DATE = 4/20/2023	DRAWN - PG	REVISED -
	CHECKED - KAS	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**METAL SHELL PILE DETAILS  
STRUCTURE NO. 074-0089**

SHEET 27 OF 31 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	(74-68)BR	PIATT	105	67
CONTRACT NO. 70D61				
ILLINOIS FED. AID PROJECT				

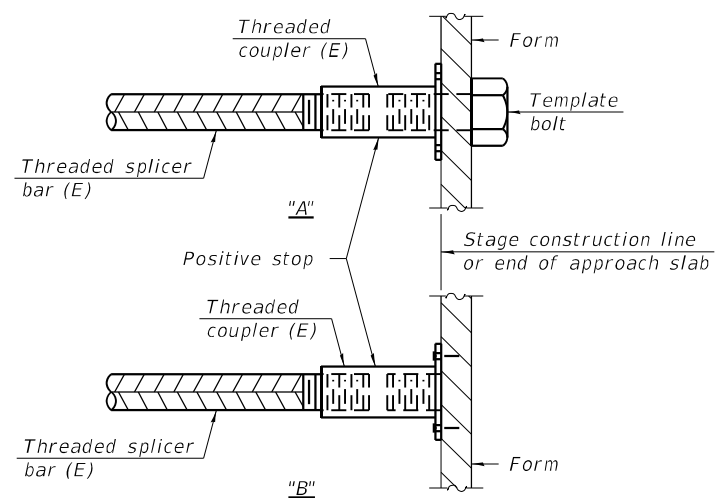


**STANDARD BAR SPLICER ASSEMBLY PLAN**  
 (All components shall be provided from one supplier)

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

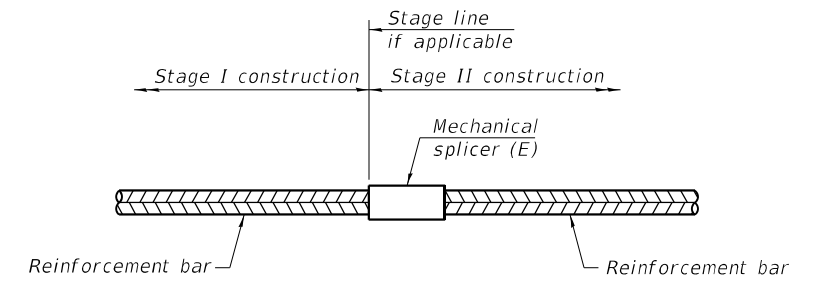
\* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
Bridge Deck	#5	840	3'-6"
Diaphragm	#6	5	4'-0"
Approach Slab	#5	92	3'-6"
Approach Slab	#8	120	6'-8"
Approach Footing	#5	80	3'-6"
Pier Cap	#5	8	3'-6"
Pier Cap	#9	30	8'-3"
Pier Cap	#6	4	4'-0"
Pier Crashwall	#6	3	4'-0"
Pier Footing	#5	24	3'-6"
North Abutment	#5	4	3'-6"
North Abutment	#7	10	5'-3"
South Abutment	#5	4	3'-6"
South Abutment	#7	10	5'-3"



**INSTALLATION AND SETTING METHODS**

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



**STANDARD MECHANICAL SPLICER**

Location	Bar size	No. assemblies required
Pier Column	#9	96
Pier Crashwall	#6	72

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.

MODEL: 0740089-70D61-023  
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BSD-1

1-1-2020

**GREENE & BRADFORD, INC.**  
 OF SPRINGFIELD  
 CONSULTING ENGINEERS  
 3501 CASCADILLA DRIVE  
 SPRINGFIELD, ILLINOIS 62711  
 PROFESSIONAL DESIGN FIRM NO. 18-001179  
 PROFESSIONAL SEAL NUMBER: 0000000000  
 (217) 794-8844, 794-4223 (F)

USER NAME = kashifs	DESIGNED - MAC	REVISED -
	CHECKED - KAS	REVISED -
PLOT SCALE = 0.1667" / in.	DRAWN - PG	REVISED -
PLOT DATE = 4/20/2023	CHECKED - KAS	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS  
 STRUCTURE NO. 074-0089**

SHEET 28 OF 31 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	(74-68)BR	PIATT	105	68
CONTRACT NO. 70D61				
ILLINOIS FED. AID PROJECT				



# SOIL BORING LOG

Date 9/14/22

ROUTE F.A.U. 7531/F.A.P. 756 DESCRIPTION Bridge Street over I-72 LOGGED BY KEG

SECTION (74-68)BR LOCATION 40°2'8.47" N, 88°35'46.21" W

COUNTY Piatt DRILLING METHOD HSA and MUD ROTARY HAMMER TYPE AUTO

STRUCT. NO. 074-0065  
 Station 1359+51.04  
 BORING NO. SB-1  
 Station  
 Offset  
 Ground Surface Elev. 694.83 ft

DEPTH (ft)	SOIL DESCRIPTION	U (tsf)	M (%)	DEPTH (ft)	SOIL DESCRIPTION	U (tsf)	M (%)
694.0	ASPHALT PAVEMENT - 10"						
3	CLAY LOAM - Gray and brown, med-stiff, w/ some gravel			5	SILTY CLAY LOAM TILL - Brown and gray, stiff (continued) becomes gray and brown, w/ med-coarse sand seams		
3		1.3	15	8		2.6	18
5		B		10		B	
691.3	SILTY CLAY LOAM - Gray, med-stiff Atterberg Limits - LL= 25, PI=10 w/ some gravel			5	SILTY CLAY - Brown, med-stiff		
3		0.9	17	8		4.8	11
4		B		10		B	
				6	Change to Mud Wash at 30'		
3				7		5.5	14
4	1.1	14	11	B			
				3	SAND - Gray, well-graded, dense, wet		
4	1.0	12	5	3.3		24	
5	B		7	S			
				8	SANDY CLAY LOAM TILL - Gray, stiff		
2				8			
5	2.0	17	8	3.8		15	
5	B			8	P		
				3	SANDY CLAY TILL - Brown, stiff, w/ 1" fine sand seams at 19.5'		
4	2.2	11	4				
6	B		8				
				8	SILTY CLAY LOAM TILL - Brown and gray, stiff		
4				8			
6	4.2	12	12	6.3		12	
6	B			12	B		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)



# SOIL BORING LOG

Date 9/14/22

ROUTE F.A.U. 7531/F.A.P. 756 DESCRIPTION Bridge Street over I-72 LOGGED BY KEG

SECTION (74-68)BR LOCATION 40°2'8.47" N, 88°35'46.21" W

COUNTY Piatt DRILLING METHOD HSA and MUD ROTARY HAMMER TYPE AUTO

STRUCT. NO. 074-0065  
 Station 1359+51.04  
 BORING NO. SB-1  
 Station  
 Offset  
 Ground Surface Elev. 694.83 ft

DEPTH (ft)	SOIL DESCRIPTION	U (tsf)	M (%)	DEPTH (ft)	SOIL DESCRIPTION	U (tsf)	M (%)
	SILTY CLAY LOAM TILL - Brown and gray, stiff (continued)				SILTY CLAY LOAM TILL - Brown and gray, stiff (continued)		
				6	becomes gray and brown		
				7		3.3	14
				10		B	
				6	becomes med-stiff		
				9		5.5	17
				12		B	
				7	SANDY CLAY TILL - Brown, stiff, w/ 1" fine sand seams at 19.5'		
				8		1.8	14
				11		B	
				6	SANDY CLAY TILL - Brown, stiff, w/ 1" fine sand seams at 19.5'		
				10		2.0	12
				15		B	
				9	SILTY CLAY LOAM TILL - Brown and gray, stiff		
				10		2.0	12
				16		B	

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

Note: Station 48+74, 11' LT

MODEL: 0740089-70D61-024  
 FILE NAME: J:\20102\_PTB\_197-031\_Superstructure\_Replacement\DOT\20102\_PTB\_197-031.dgn



USER NAME = kashifs	DESIGNED - MAC	REVISED -
PLOT SCALE =	CHECKED - KAS	REVISED -
PLOT DATE = 4/20/2023	DRAWN - PG	REVISED -
	CHECKED - KAS	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS  
 STRUCTURE NO. 074-0089

SHEET 29 OF 31 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	(74-68)BR	PIATT	105	69
CONTRACT NO. 70D61				

ILLINOIS FED. AID PROJECT



# SOIL BORING LOG

Date 9/16/22

ROUTE F.A.U. 7531/F.A.P. 756 DESCRIPTION Bridge Street over I-72 LOGGED BY KEG

SECTION (74-68)BR LOCATION 40°2'11.04" N, 88°35'47.98" W

COUNTY Piatt DRILLING METHOD HSA and MUD ROTARY HAMMER TYPE AUTO

STRUCT. NO.	Station	D E P T H	B L O W S	U C S	M O I S T U R E	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:	First Encounter	Upon Completion	After	Hrs.
074-0065	1359+51.04	(ft)	(/6")	(tsf)	(%)	ft	ft	ft	ft	ft	ft	
ASPHALT PAVEMENT - 11"		694.0				674.4						
CLAY - Brown, med-stiff, w/some sand and pebbles			3									
			5	3.5	13							
			5	B								
SILTY CLAY - Brown and gray, med-stiff w/ some sand and pebbles		691.9				671.9						
			3									
			5	2.0	22							
			6	P								
CLAY LOAM - Gray and brown, med-stiff, w/ some pebbles		689.4										
			3									
			5	3.1	15							
			5	B								
SILTY CLAY - Gray and brown, med-stiff, w/ some pebbles and sand pockets		686.9										
			3									
			4	3.1	29							
			8	B								
becomes black and gray, w/ some organics			3									
			5	4.4	24							
			8	B								
becomes brown and gray, no more organics			2									
			3	1.9	26							
			4	B								
becomes dark brown and stiff			7									
			9	7.9	21							
			9	B								
becomes tan and med-stiff			4									
			6	2.8	24							
			9	S								
No Recovery			21									
			20	-								
			24									

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)



# SOIL BORING LOG

Date 9/16/22

ROUTE F.A.U. 7531/F.A.P. 756 DESCRIPTION Bridge Street over I-72 LOGGED BY KEG

SECTION (74-68)BR LOCATION 40°2'11.04" N, 88°35'47.98" W

COUNTY Piatt DRILLING METHOD HSA and MUD ROTARY HAMMER TYPE AUTO

STRUCT. NO.	Station	D E P T H	B L O W S	U C S	M O I S T U R E	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:	First Encounter	Upon Completion	After	Hrs.
074-0065	1359+51.04	(ft)	(/6")	(tsf)	(%)	ft	ft	ft	ft	ft	ft	
SAND - Brown, well-graded, med-dense, w/ some gravel and clay (continued)												
			24									
			12	-	14							
			14									
becomes dense, no more clay, w/ some gravel												
			6									
			9	3.7	21							
			10	B								
SILTY CLAY LOAM - Gray, stiff		647.9										
			8									
			12	3.5	14							
			22	S								
SAND - Brown, well-graded, med-dense, w/ some gravel and clay (continued)												
			6									
			9	3.7	21							
			10	B								
SILTY CLAY LOAM - Gray, stiff		645.4										
			8									
			12	5.7	13							
			12	S								
becomes brown, w/ trace gravel												
			5									
			8	1.3	13							
			12	S								

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

Note: Station 51+27, 11' RT

MODEL: 0740089-70D61-024  
FILE NAME: J:\20102 PTB 197-031 Superstructure Replacement\DOT\20102 PTB 197-031.dgn\CAD\_Sheets\0740089-70D61-029-Soil\_Boring\_Logs.dgn



USER NAME = kashifs	DESIGNED - MAC	REVISED -
PLOT SCALE =	CHECKED - KAS	REVISED -
PLOT DATE = 4/20/2023	DRAWN - PG	REVISED -
	CHECKED - KAS	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS  
STRUCTURE NO. 074-0089  
SHEET 30 OF 31 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	(74-68)BR	PIATT	105	70
CONTRACT NO. 70D61				
ILLINOIS FED. AID PROJECT				



# SOIL BORING LOG

Page 1 of 2

Date 9/15/22

ROUTE F.A.U. 7531/F.A.P. 756 DESCRIPTION Bridge Street over I-72 LOGGED BY KEG

SECTION (74-68)BR LOCATION 40°2'10.18" N, 88°35'46.69" W

COUNTY Piatt DRILLING METHOD HSA and MUD ROTARY HAMMER TYPE AUTO

STRUCT. NO.	Station	D	B	U	M	Surface Water Elev.	ft	D	B	U	M
074-0065	1359+51.04	E	L	C	O	Stream Bed Elev.	ft	E	L	C	O
BORING NO.	Station	T	W	S	Q	Groundwater Elev.:	ft	T	W	S	Q
SB-3		H	S	Qu	T	First Encounter	ft	H	S	Qu	T
Offset	Ground Surface Elev.	(ft)	(/6")	(tsf)	(%)	Upon Completion	ft	(ft)	(/6")	(tsf)	(%)
	671.33					After	ft				
CLAY LOAM - Brown, med-stiff						650.8					
SAND - Brown, well-graded, med-dense, w/ some clay						669.3					
no more clay											
w/ some clay and gravel											
becomes brown and gray, no more clay											
w/ gravel traces						659.3					
FINE SAND - gray, dense, moist						658.3					
SILTY CLAY LOAM TILL - Gray and brown, stiff											
Atterberg Limits - LL= 22, PI=8											
w/ 3.5" of granite fragments						653.3					
SILTY CLAY LOAM - Brown and black, stiff											
Poor Recovery											
1" coarse sand seams at 39'											

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)



# SOIL BORING LOG

Page 2 of 2

Date 9/15/22

ROUTE F.A.U. 7531/F.A.P. 756 DESCRIPTION Bridge Street over I-72 LOGGED BY KEG

SECTION (74-68)BR LOCATION 40°2'10.18" N, 88°35'46.69" W

COUNTY Piatt DRILLING METHOD HSA and MUD ROTARY HAMMER TYPE AUTO

STRUCT. NO.	Station	D	B	U	M	Surface Water Elev.	ft	D	B	U	M
074-0065	1359+51.04	E	L	C	O	Stream Bed Elev.	ft	E	L	C	O
BORING NO.	Station	T	W	S	Q	Groundwater Elev.:	ft	T	W	S	Q
SB-3		H	S	Qu	T	First Encounter	ft	H	S	Qu	T
Offset	Ground Surface Elev.	(ft)	(/6")	(tsf)	(%)	Upon Completion	ft	(ft)	(/6")	(tsf)	(%)
	671.33					After	ft				
SILTY CLAY LOAM TILL - Brown, stiff, w/ shaley clay traces (continued)											
becomes brown						627.5					
SAND - Brown and gray, well-graded, dense											
SILT - Gray, stiff											
V. FINE SAND - Gray, very dense, poorly graded											
SAND - Gray, well-graded, dense, w/ some gravel											
End of Boring											

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

Note: Station 50+10, 36' RT

MODEL: 0740089-70D61-024  
FILE NAME: J:\20102.PTB 197-031 Superstructure Replacement\DOT\20102.PTB 197-031.dgn



USER NAME = kashifs	DESIGNED - MAC	REVISED -
PLOT SCALE =	CHECKED - KAS	REVISED -
PLOT DATE = 4/20/2023	DRAWN - PG	REVISED -
	CHECKED - KAS	REVISED -

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DEPARTMENT OF TRANSPORTATION

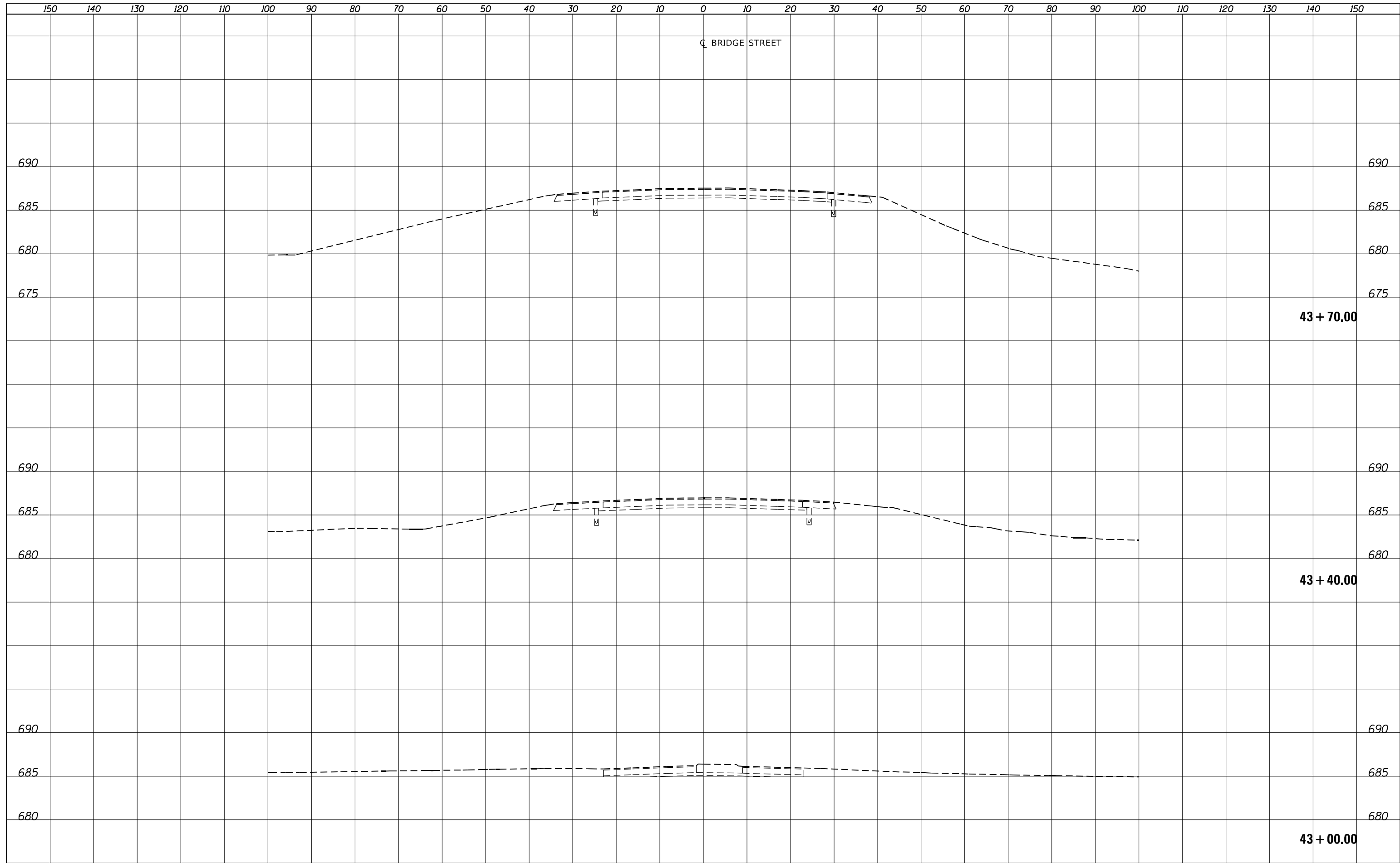
SOIL BORING LOGS  
STRUCTURE NO. 074-0089

SHEET 31 OF 31 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	(74-68)BR	PIATT	105	71
CONTRACT NO. 70D61				
ILLINOIS FED. AID PROJECT				

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
FINAL SURVEY	
NOTE BOOK	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	



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 1100 North 28th Street  
 Quincy, IL 62422

USER NAME = TMD	DESIGNED -	REVISIED -
	DRAWN - TMD	REVISIED -
PLOT SCALE = 20.0000' / in.	CHECKED -	REVISIED -
PLOT DATE = 3/23/2023	DATE -	REVISIED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**BRIDGE STREET OVER I-72  
 STAGE 1 CROSS SECTIONS**

SCALE: 1" = 10' H  
 1" = 5' V

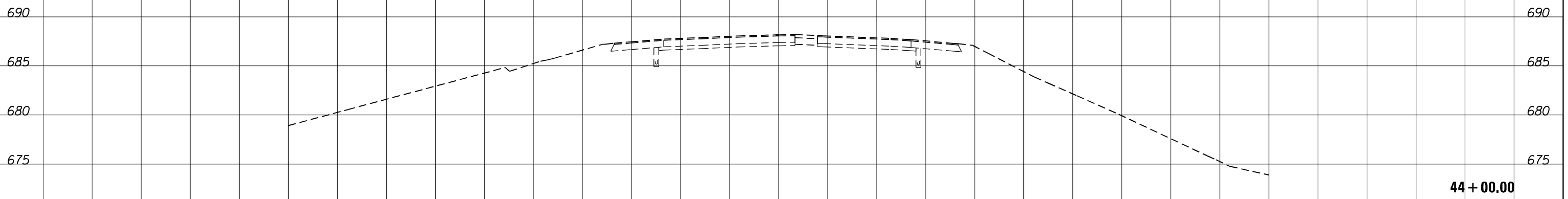
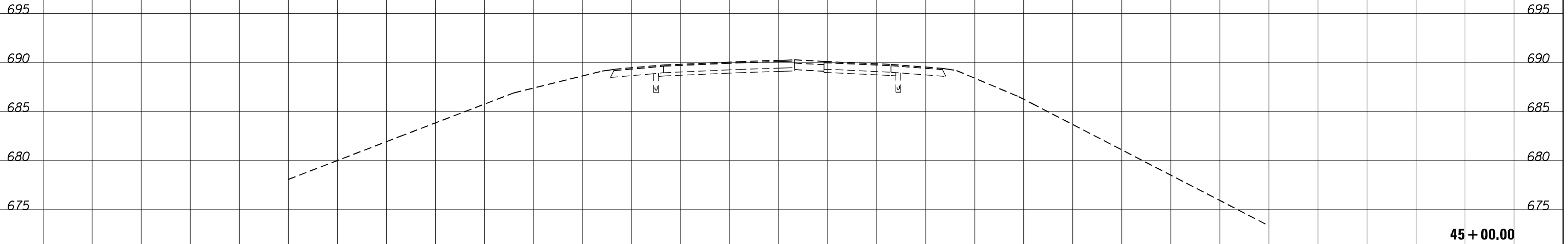
SHEET 1 OF 11 SHEETS STA. 43+00.00 TO STA. 43+70.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	(74-68)BR	PIATT	105	72
CONTRACT NO. 70D61				
ILLINOIS FED. AID PROJECT				



150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

C BRIDGE STREET



150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

DATE	
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SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
FINAL SURVEY NOTE BOOK NO.	

DATE	
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TEMPLATE	
AREAS	
CHECKED	
ORIGINAL SURVEY NOTE BOOK NO.	

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PLOT DATE = 3/23/2023	DATE -	REVISIED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

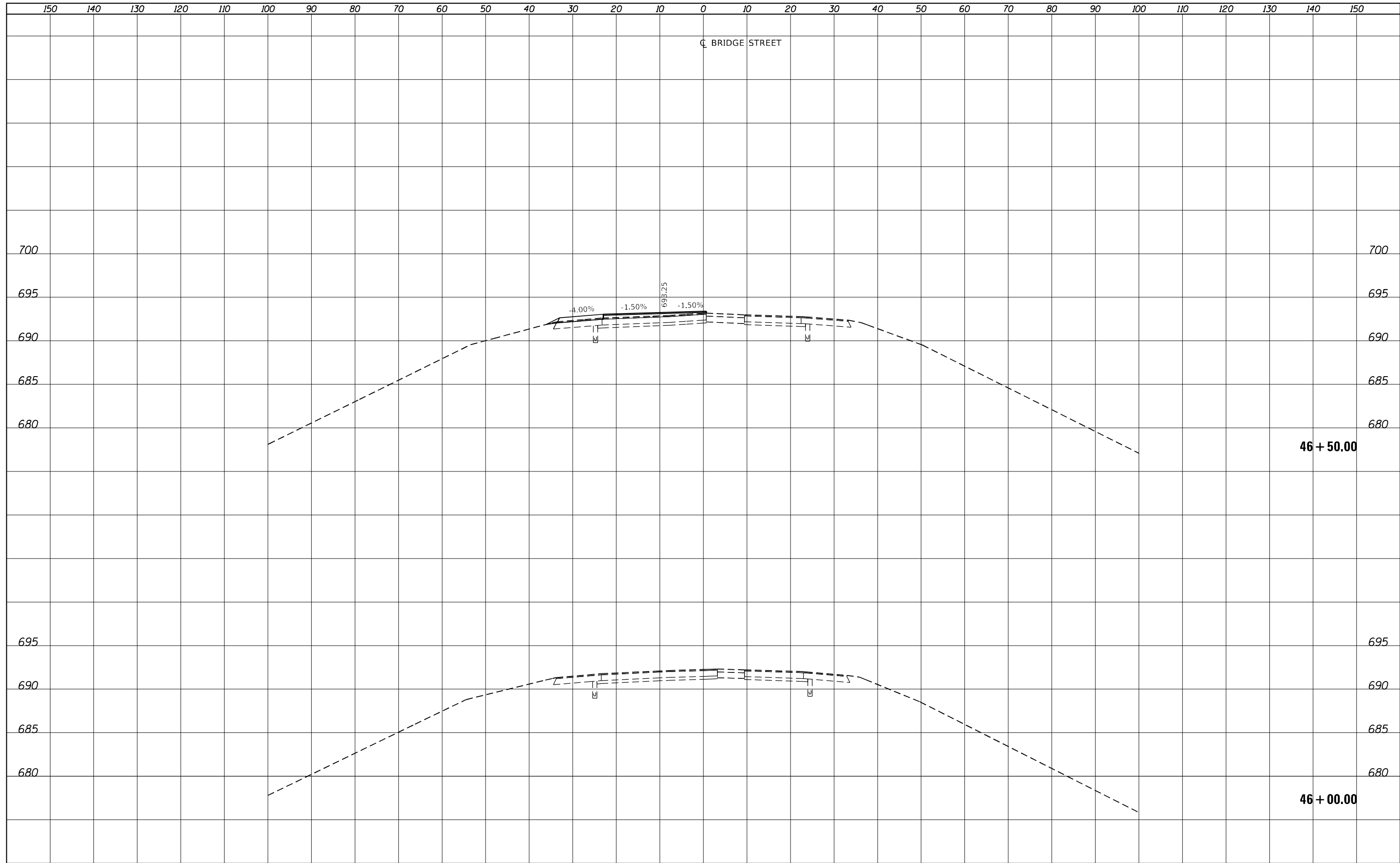
**BRIDGE STREET OVER I-72  
 STAGE 1 CROSS SECTIONS**

SCALE:  $\frac{1''}{50'}$  =  $\frac{10''}{500'}$  H  
 $\frac{1''}{5''}$  =  $\frac{10''}{50'}$  V  
 SHEET 2 OF 11 SHEETS STA. 44+00.00 TO STA. 45+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	(74-68)BR	PIATT	105	73
CONTRACT NO. 70D61				
ILLINOIS FED. AID PROJECT				

DATE	
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FINAL SURVEY NOTE BOOK NO.	

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PLOT DATE = 3/23/2023	DATE -	REVISIED -

**STATE OF ILLINOIS  
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**BRIDGE STREET OVER I-72  
 STAGE 1 CROSS SECTIONS**

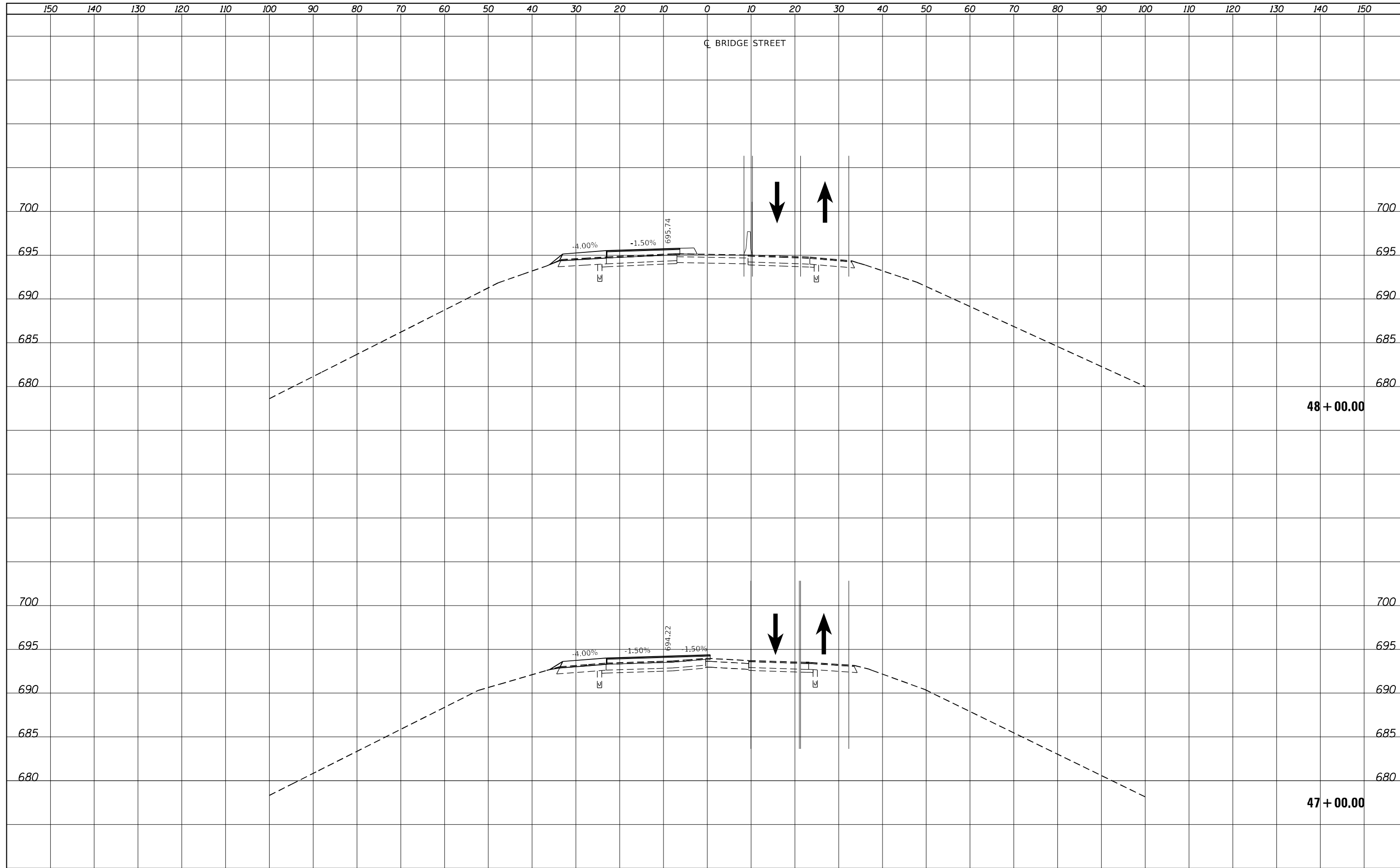
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 $\frac{1''}{5''}$  =  $\frac{10''}{50'}$  V

SHEET 3 OF 11 SHEETS STA. 46+00.00 TO STA. 46+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	(74-68)BR	PIATT	105	74
CONTRACT NO. 70D61				
ILLINOIS FED. AID PROJECT				

DATE	
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SURVEYED	
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FINAL SURVEY NOTE BOOK NO.	

DATE	
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SURVEYED	
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TEMPLATE	
AREAS	
CHECKED	
ORIGINAL SURVEY NOTE BOOK NO.	



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PLOT DATE = 3/23/2023	DATE -	REVISIED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**BRIDGE STREET OVER I-72  
 STAGE 1 CROSS SECTIONS**

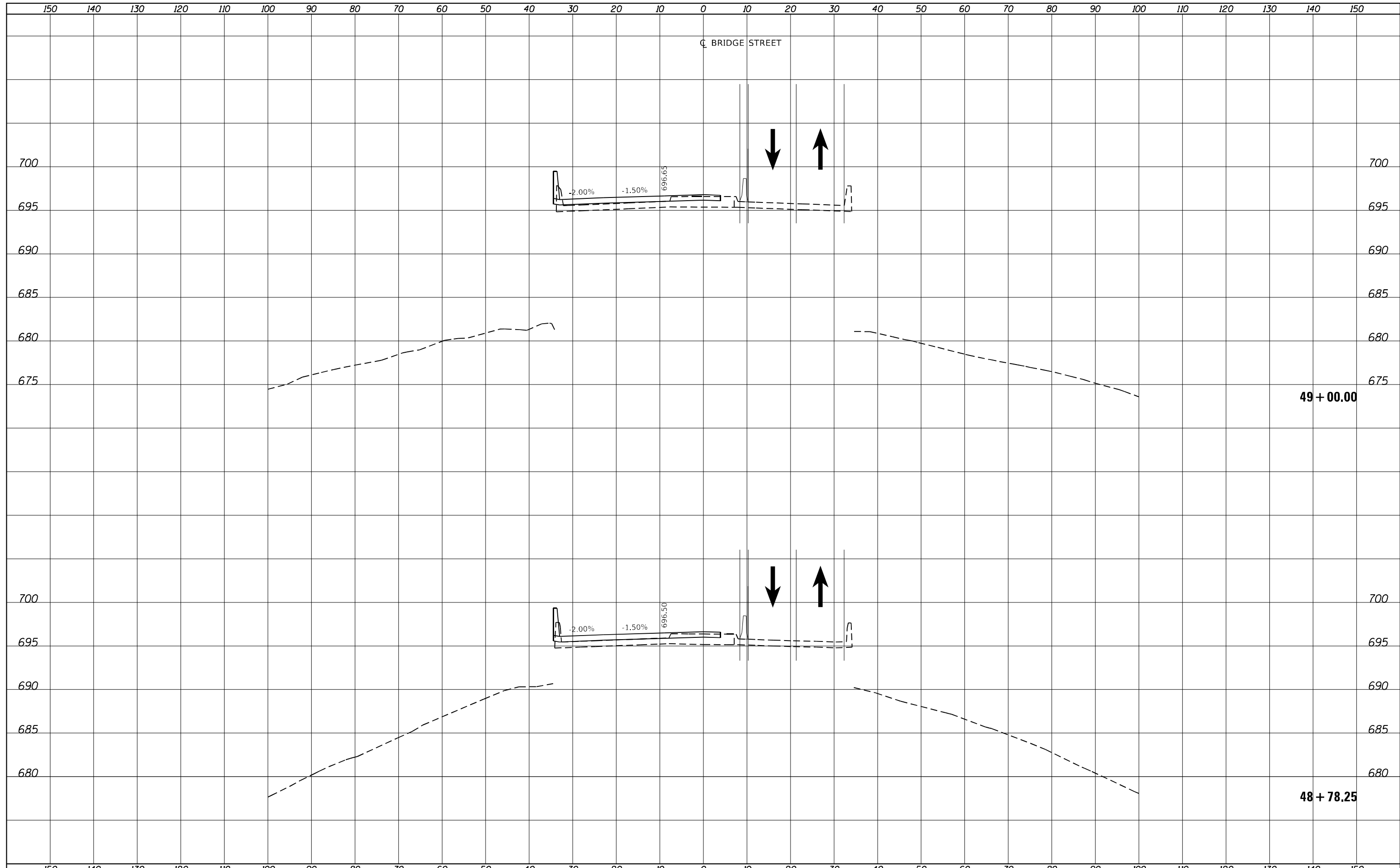
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 $\frac{1''}{5''}$  =  $\frac{1''}{5''}$  V

SHEET 4 OF 11 SHEETS STA. 47+00.00 TO STA. 48+00.00

F.A.I. RTE. 72	SECTION (74-68)BR	COUNTY PIATT	TOTAL SHEETS 105	SHEET NO. 75
			CONTRACT NO. 70D61	
ILLINOIS FED. AID PROJECT				

DATE	
BY	
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FINAL SURVEY	
NOTE BOOK	
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DATE	
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SURVEYED	
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TEMPLATE	
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CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
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PLOT SCALE = 20.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 3/23/2023	DATE -	REVISED -

**STATE OF ILLINOIS  
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**BRIDGE STREET OVER I-72  
STAGE 1 CROSS SECTIONS**

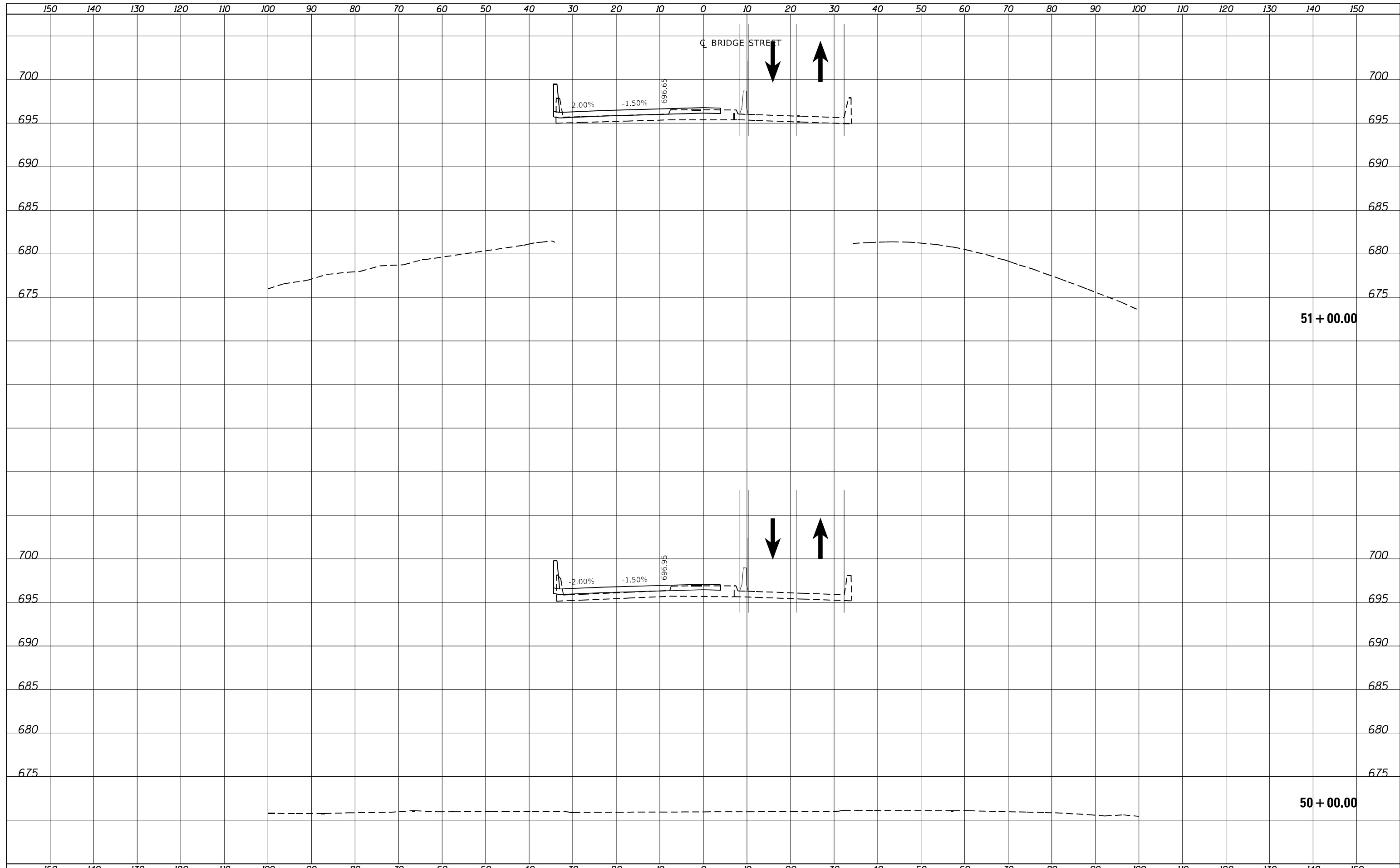
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 $\frac{1''}{5''}$  =  $\frac{10''}{50'}$  V

SHEET 5 OF 11 SHEETS STA. 48+78.25 TO STA. 49+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	(74-68)BR	PIATT	105	76
CONTRACT NO. 7061				
ILLINOIS FED. AID PROJECT				

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
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FINAL SURVEY	
NOTE BOOK	
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DATE	
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SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
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PLOT SCALE = 20.0000' / in.	CHECKED -	REVISIED -
PLOT DATE = 3/23/2023	DATE -	REVISIED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

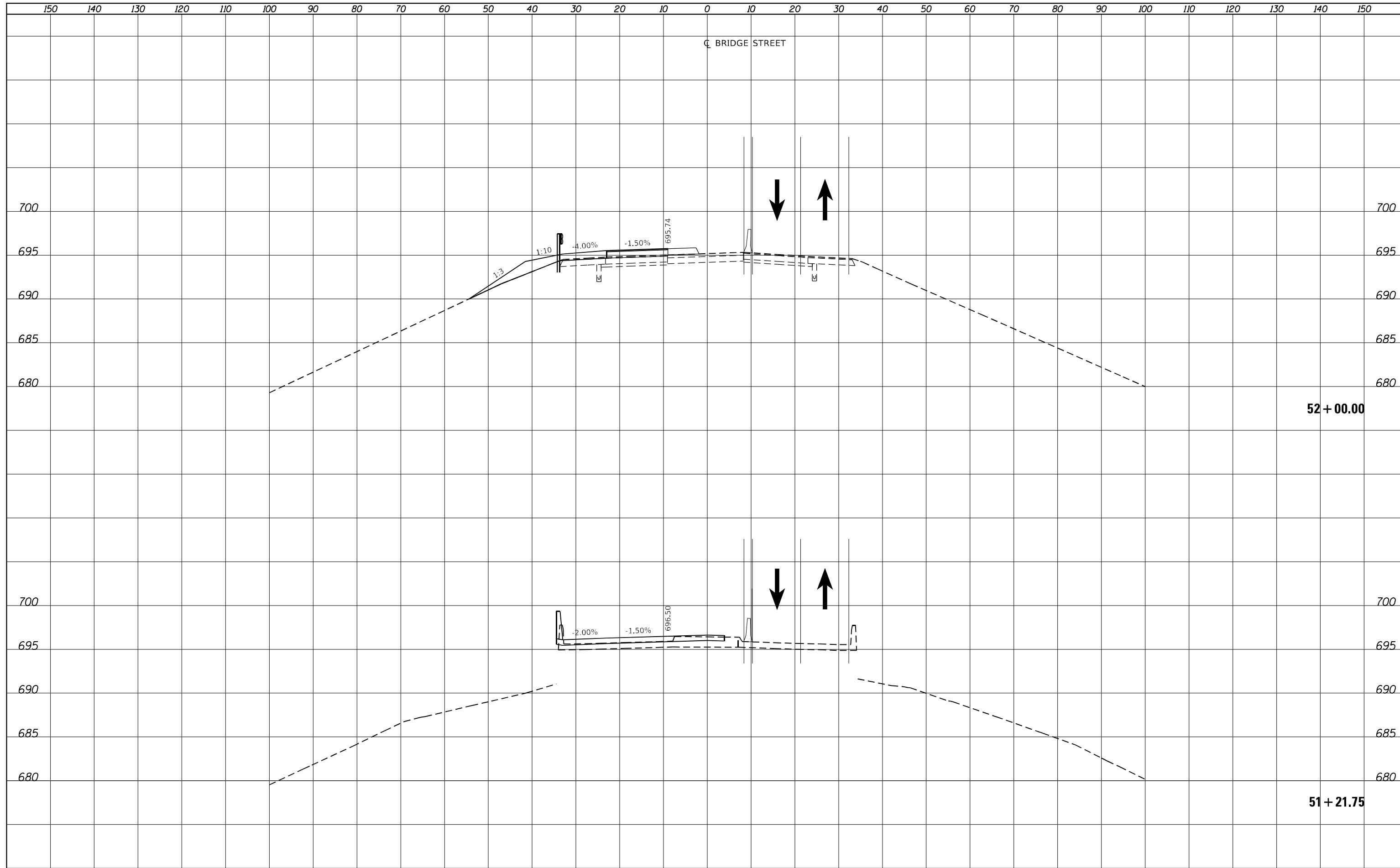
**BRIDGE STREET OVER I-72  
 STAGE 1 CROSS SECTIONS**

SCALE:  $\frac{1''}{50'}$  H  
 $\frac{1''}{5'}$  V SHEET 6 OF 11 SHEETS STA. 50+00.00 TO STA. 51+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	(74-68)BR	PIATT	105	77
CONTRACT NO. 70D61				
ILLINOIS FED. AID PROJECT				

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
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CHECKED	
FINAL SURVEY NOTE BOOK NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
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ORIGINAL SURVEY NOTE BOOK NO.	



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PLOT SCALE = 20.0000' / in.	CHECKED -	REVISIED -
PLOT DATE = 3/23/2023	DATE -	REVISIED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**BRIDGE STREET OVER I-72  
 STAGE 1 CROSS SECTIONS**

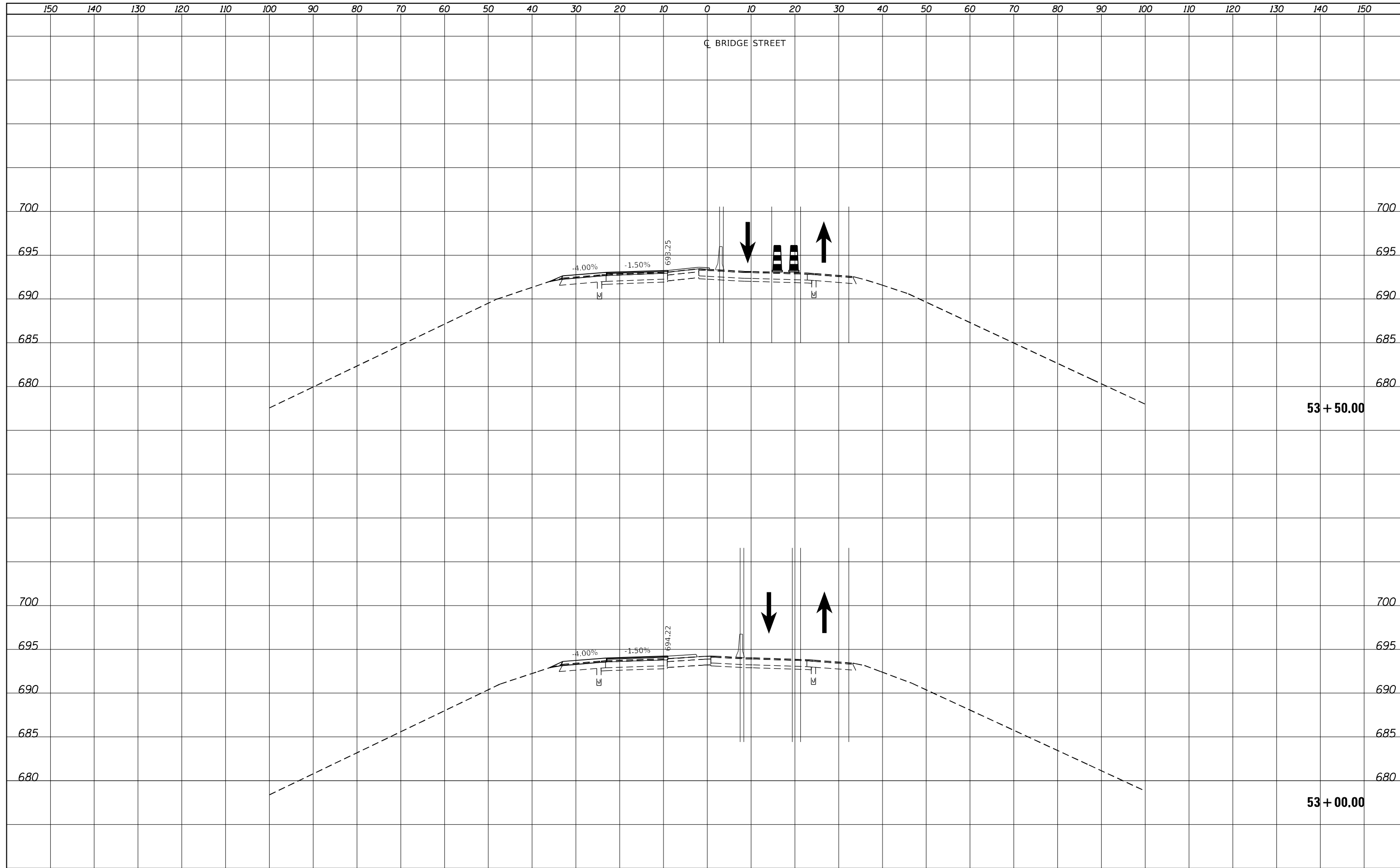
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 $\frac{1''}{5''}$  =  $\frac{10''}{50'}$  V

SHEET 7 OF 11 SHEETS STA. 51+21.75 TO STA. 52+00.00

F.A.I. RTE. 72	SECTION (74-68)BR	COUNTY PIATT	TOTAL SHEETS 105	SHEET NO. 78
			CONTRACT NO. 70D61	
ILLINOIS FED. AID PROJECT				

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
FINAL SURVEY	
NOTE BOOK	
NO.	

DATE	
BY	
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TEMPLATE	
AREAS	
CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	



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PLOT SCALE = 20.0000' / in.	CHECKED -	REVISIED -
PLOT DATE = 3/23/2023	DATE -	REVISIED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**BRIDGE STREET OVER I-72  
 STAGE 1 CROSS SECTIONS**

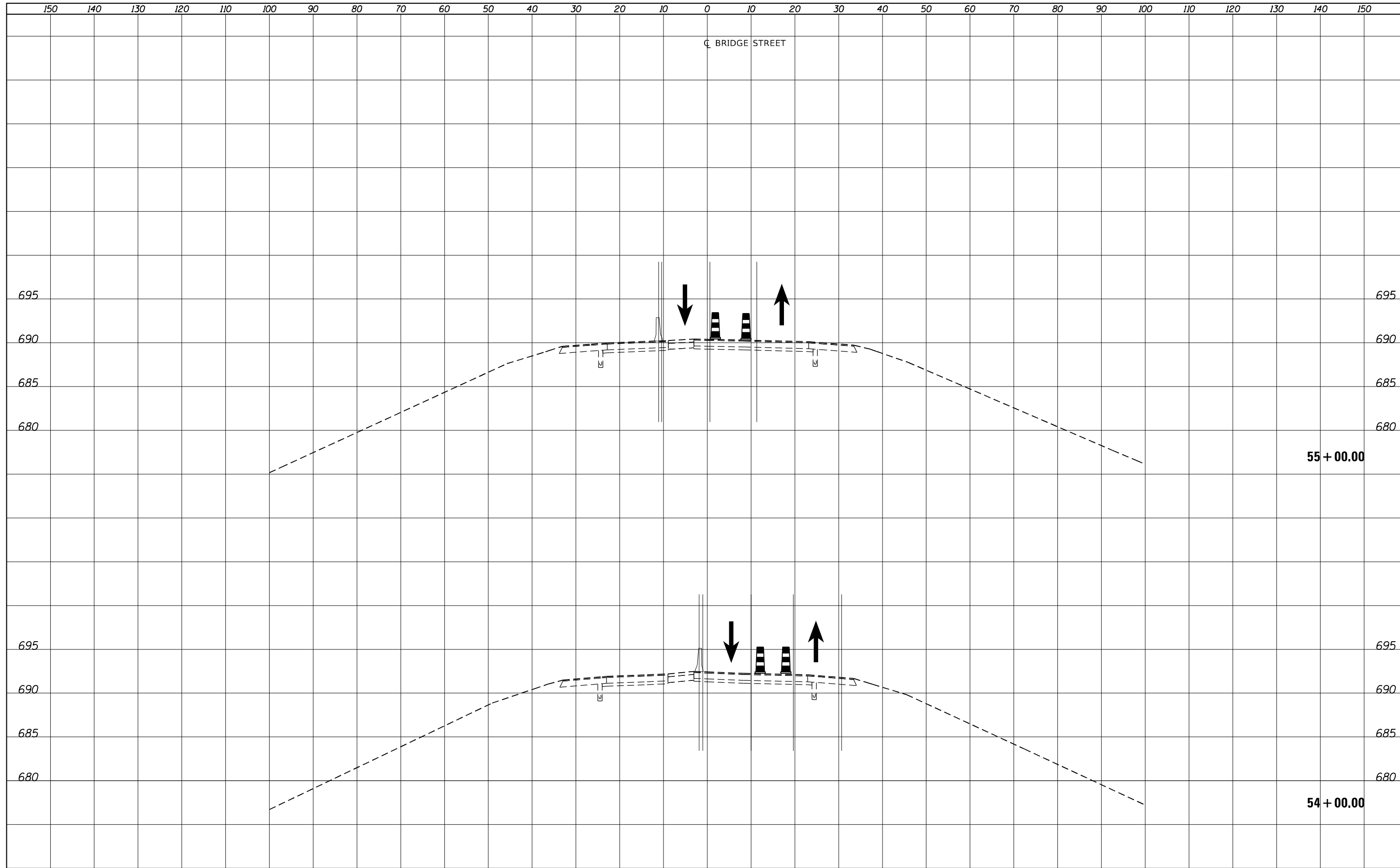
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 $\frac{1''}{5''}$  =  $\frac{10''}{50'}$  V

SHEET 8 OF 11 SHEETS STA. 53+00.00 TO STA. 53+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	(74-68)BR	PIATT	105	79
CONTRACT NO. 70D61				
ILLINOIS FED. AID PROJECT				

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
FINAL SURVEY NOTE BOOK NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
ORIGINAL SURVEY NOTE BOOK NO.	



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PLOT SCALE = 20.0000' / in.	CHECKED -	REVISIED -
PLOT DATE = 3/23/2023	DATE -	REVISIED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**BRIDGE STREET OVER I-72  
 STAGE 1 CROSS SECTIONS**

SCALE:  $\frac{1''}{50'}$  =  $\frac{10''}{500'}$  H  
 $\frac{1''}{5''}$  =  $\frac{10''}{50'}$  V

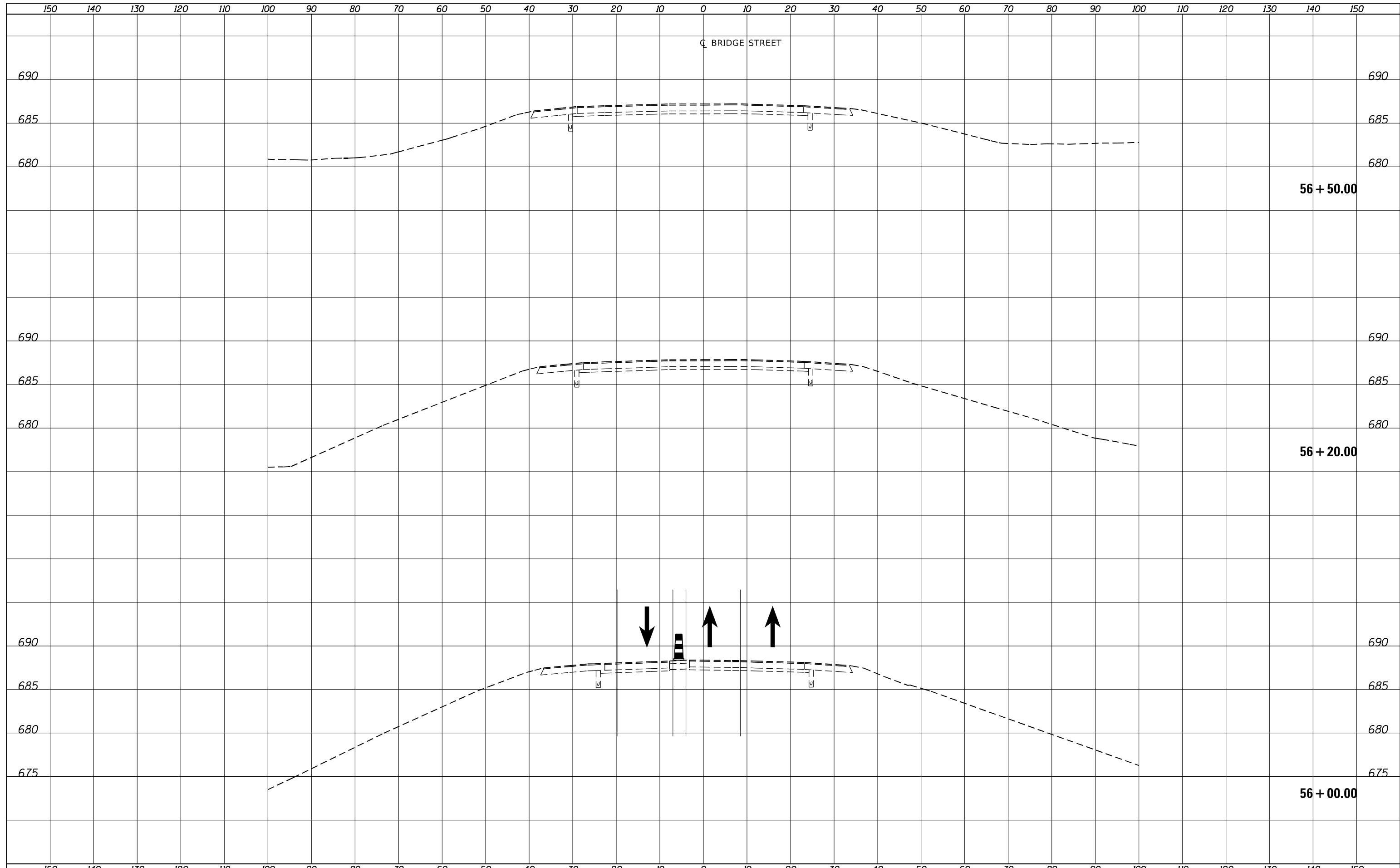
SHEET 9 OF 11 SHEETS STA. 54+00.00 TO STA. 55+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	(74-68)BR	PIATT	105	80
CONTRACT NO. 70D61			ILLINOIS FED. AID PROJECT	



DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
FINAL SURVEY NOTE BOOK NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
ORIGINAL SURVEY NOTE BOOK NO.	



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PLOT SCALE = 20.0000' / in.	CHECKED -	REVISIED -
PLOT DATE = 3/23/2023	DATE -	REVISIED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**BRIDGE STREET OVER I-72  
 STAGE 1 CROSS SECTIONS**

SCALE:  $\frac{1''}{50'}$  =  $\frac{10''}{500'}$  H  
 $\frac{1''}{5''}$  =  $\frac{1''}{5''}$  V

SHEET 10 OF 11 SHEETS STA. 56+00.00 TO STA. 56+50.00

F.A.I. RTE. 72	SECTION (74-68)BR	COUNTY PIATT	TOTAL SHEETS 105	SHEET NO. 81
			CONTRACT NO. 70D61	
ILLINOIS FED. AID PROJECT				

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

C BRIDGE STREET

FINAL SURVEY NO.	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

ORIGINAL SURVEY NO.	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

690

690

685

685

57 + 00.00

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



USER NAME = TMD	DESIGNED -	REVISED -
	DRAWN - TMD	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 3/23/2023	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

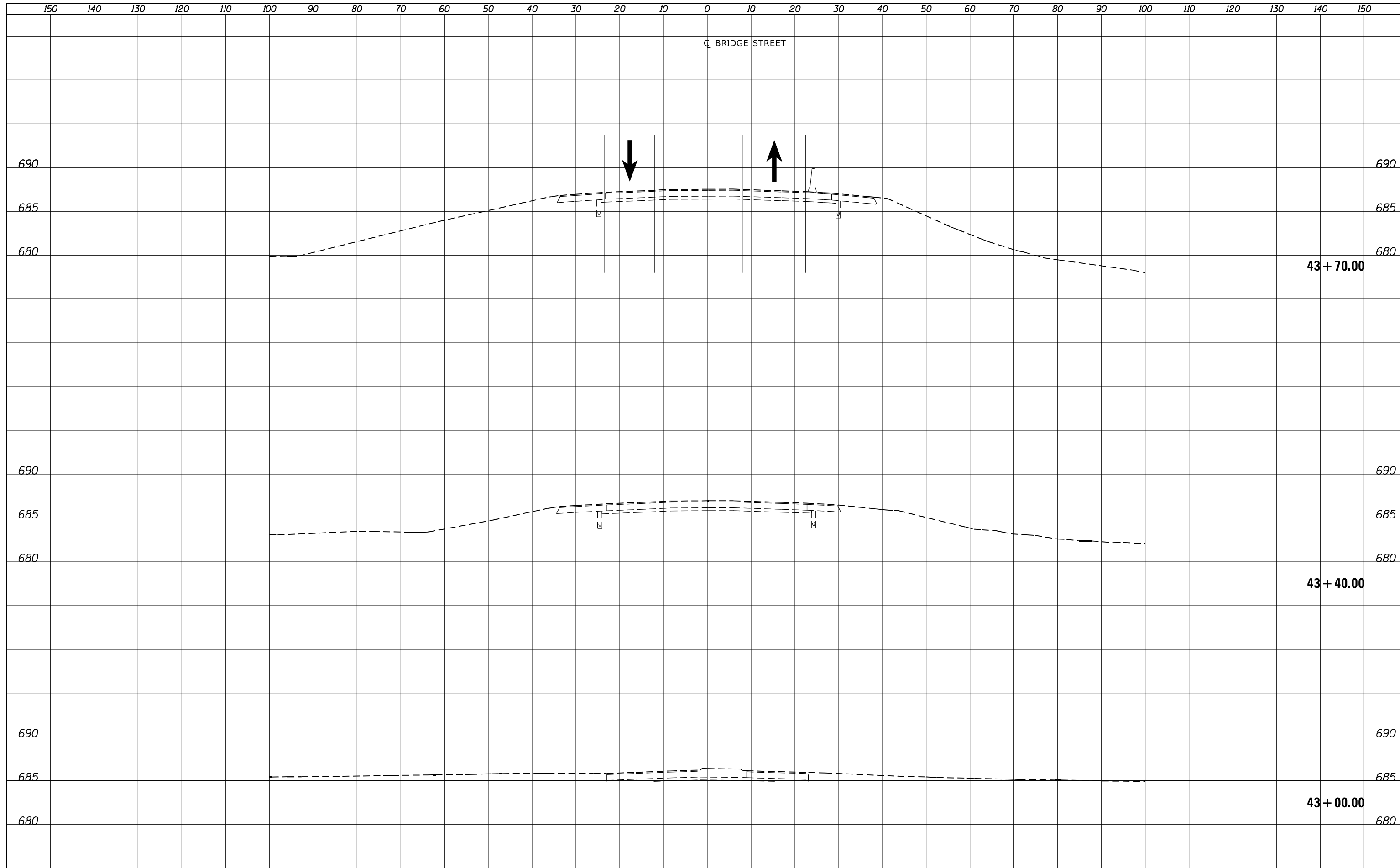
**BRIDGE STREET OVER I-72  
 STAGE 1 CROSS SECTIONS**

SCALE: 1" = 10' H  
 1" = 5' V SHEET 11 OF 11 SHEETS STA. 57+00.00 TO STA. 57+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	(74-68)BR	PIATT	105	82
CONTRACT NO. 70D61			ILLINOIS FED. AID PROJECT	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
FINAL SURVEY	
NOTE BOOK	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	



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 618 North 24th Street  
 Quincy, IL 62450

USER NAME = TMD	DESIGNED -	REVISIED -
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PLOT SCALE = 20.0000' / in.	CHECKED -	REVISIED -
PLOT DATE = 3/23/2023	DATE -	REVISIED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**BRIDGE STREET OVER I-72  
 STAGE 2 CROSS SECTIONS**

SCALE:  $\frac{1''}{50'}$  =  $\frac{10''}{500'}$  H  
 $\frac{1''}{5''}$  =  $\frac{1''}{5''}$  V

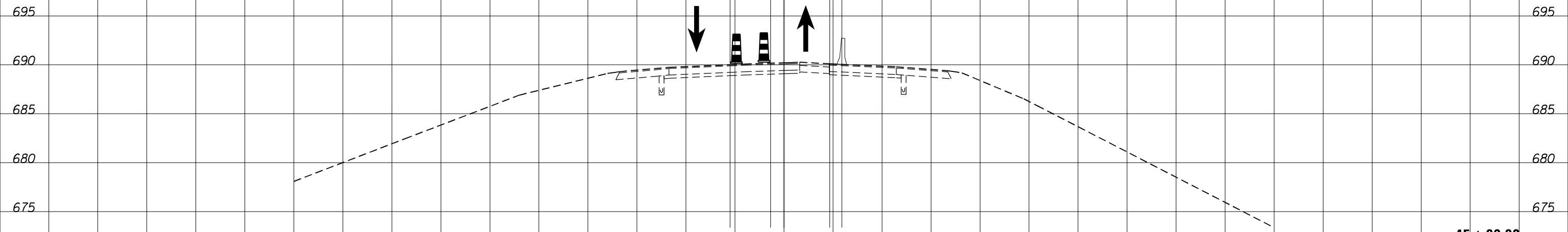
SHEET 1 OF 11 SHEETS STA. 43+00.00 TO STA. 43+70.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	(74-68)BR	PIATT	105	83
CONTRACT NO. 70D61			ILLINOIS FED. AID PROJECT	

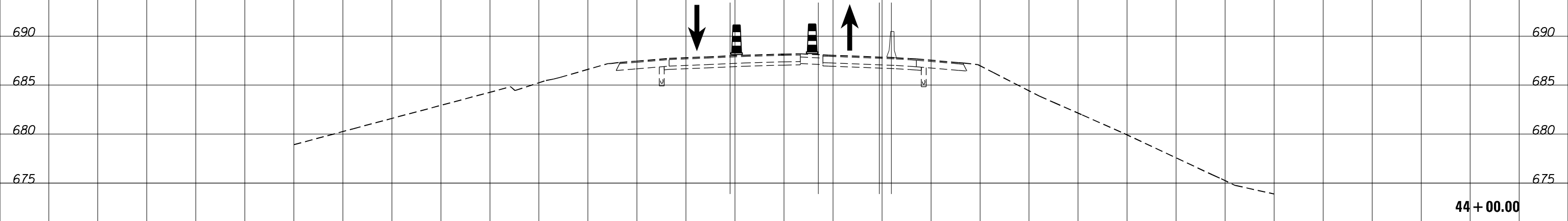
150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

C BRIDGE STREET

DATE	BY	SURVEYED	PLOTTED	AREAS CHECKED
NO.		NOTE BOOK	TEMPLATE	AREAS CHECKED



DATE	BY	SURVEYED	PLOTTED	AREAS CHECKED
NO.		NOTE BOOK	TEMPLATE	AREAS CHECKED



150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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PLOT SCALE = 20.0000' / in.	CHECKED -	REVISIED -
PLOT DATE = 3/23/2023	DATE -	REVISIED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**BRIDGE STREET OVER I-72  
 STAGE 2 CROSS SECTIONS**

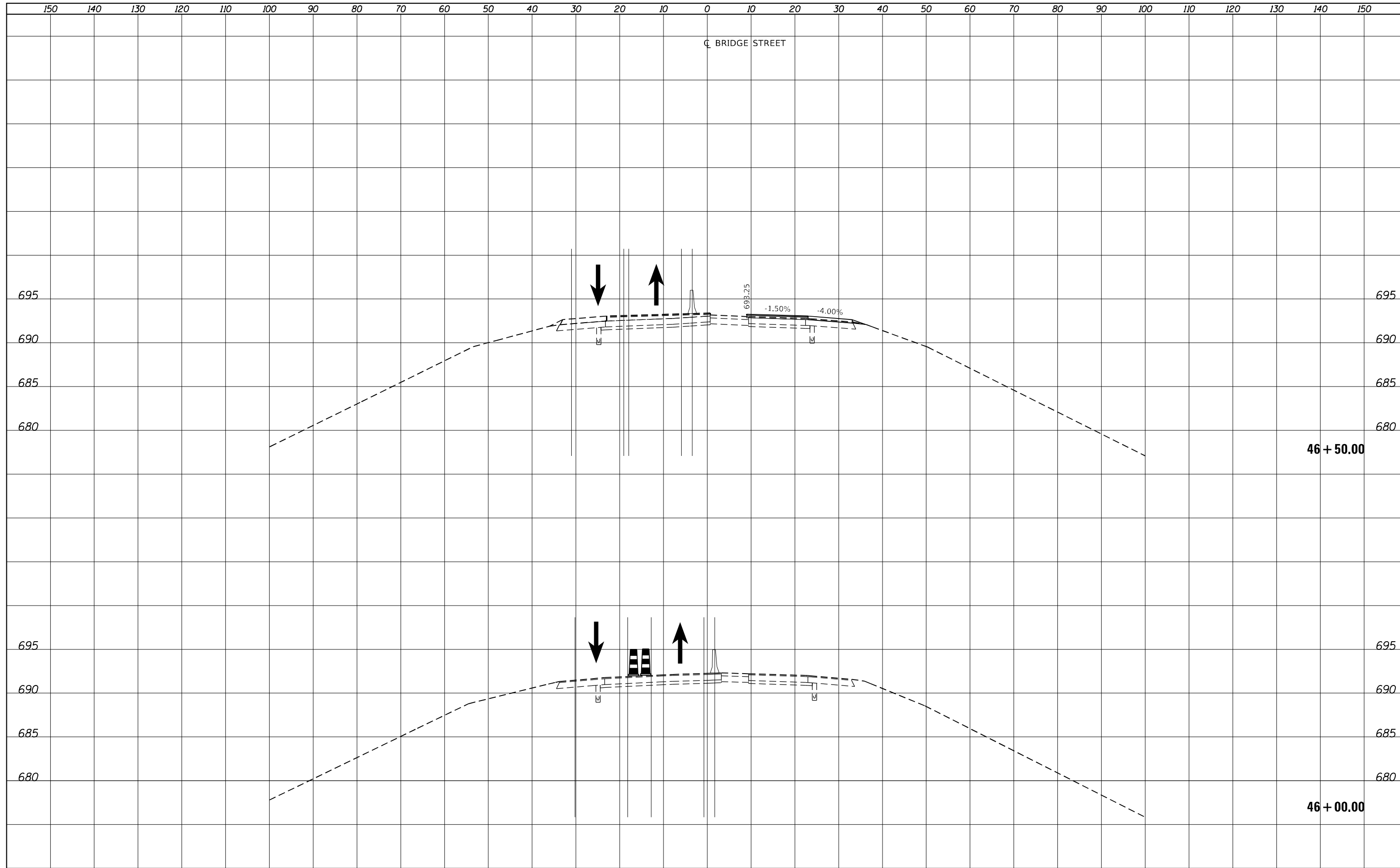
SCALE:  $\frac{1''}{50'}$  =  $\frac{10''}{500'}$  H  
 $\frac{1''}{5''}$  =  $\frac{10''}{50'}$  V

SHEET 2 OF 11 SHEETS STA. 44+00.00 TO STA. 45+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	(74-68)BR	PIATT	105	84
CONTRACT NO. 70D61			ILLINOIS FED. AID PROJECT	

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DATE	
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PLOT DATE = 3/23/2023	DATE -	REVISIED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**BRIDGE STREET OVER I-72  
 STAGE 2 CROSS SECTIONS**

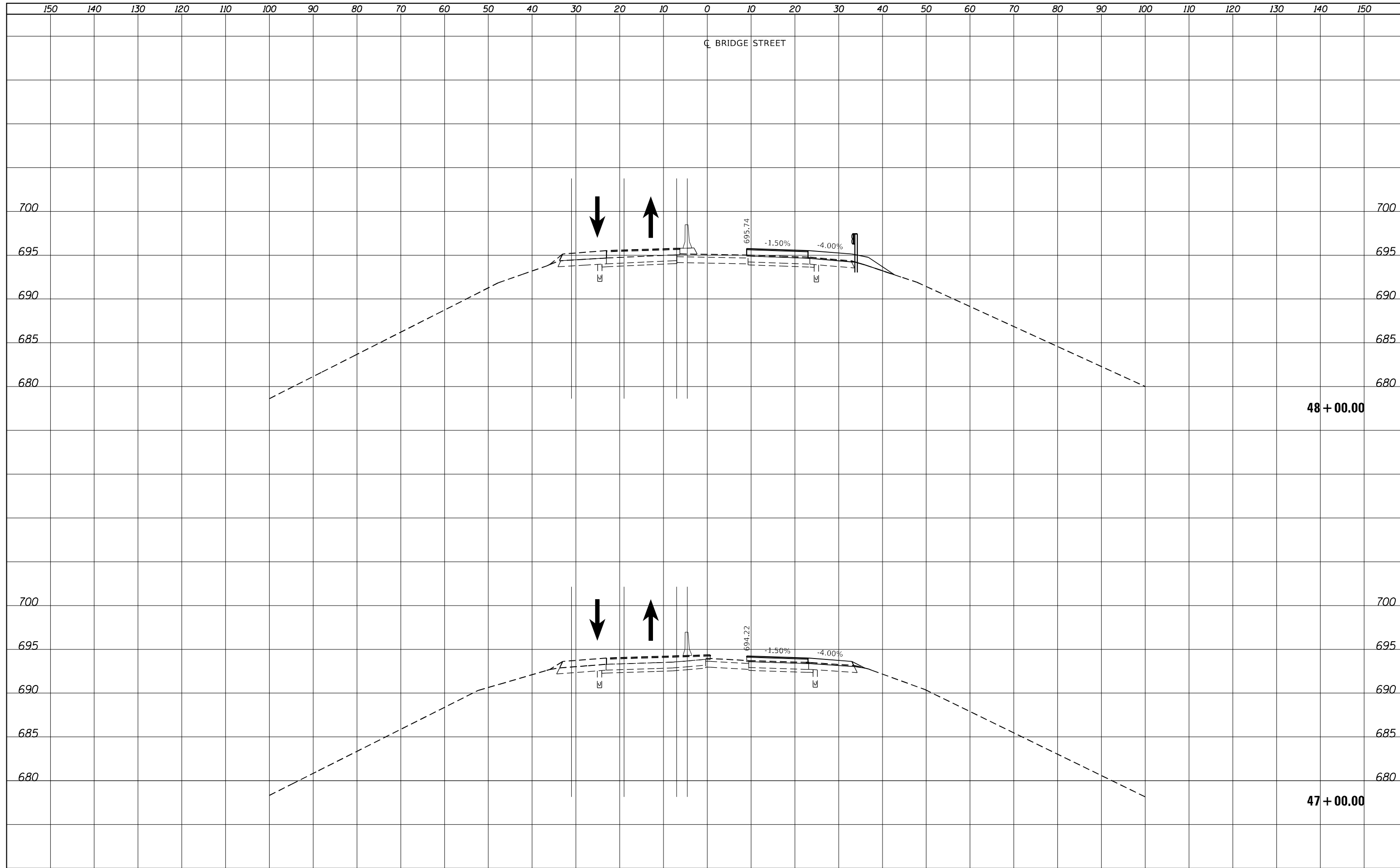
SCALE:  $\frac{1''}{50'}$  H  
 $\frac{1''}{5'}$  V

SHEET 3 OF 11 SHEETS STA. 46+00.00 TO STA. 46+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	(74-68)BR	PIATT	105	85
CONTRACT NO. 70D61			ILLINOIS FED. AID PROJECT	

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FINAL SURVEY NOTE BOOK NO.	

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ORIGINAL SURVEY NOTE BOOK NO.	



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PLOT DATE = 3/23/2023	DATE -	REVISIED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**BRIDGE STREET OVER I-72  
 STAGE 2 CROSS SECTIONS**

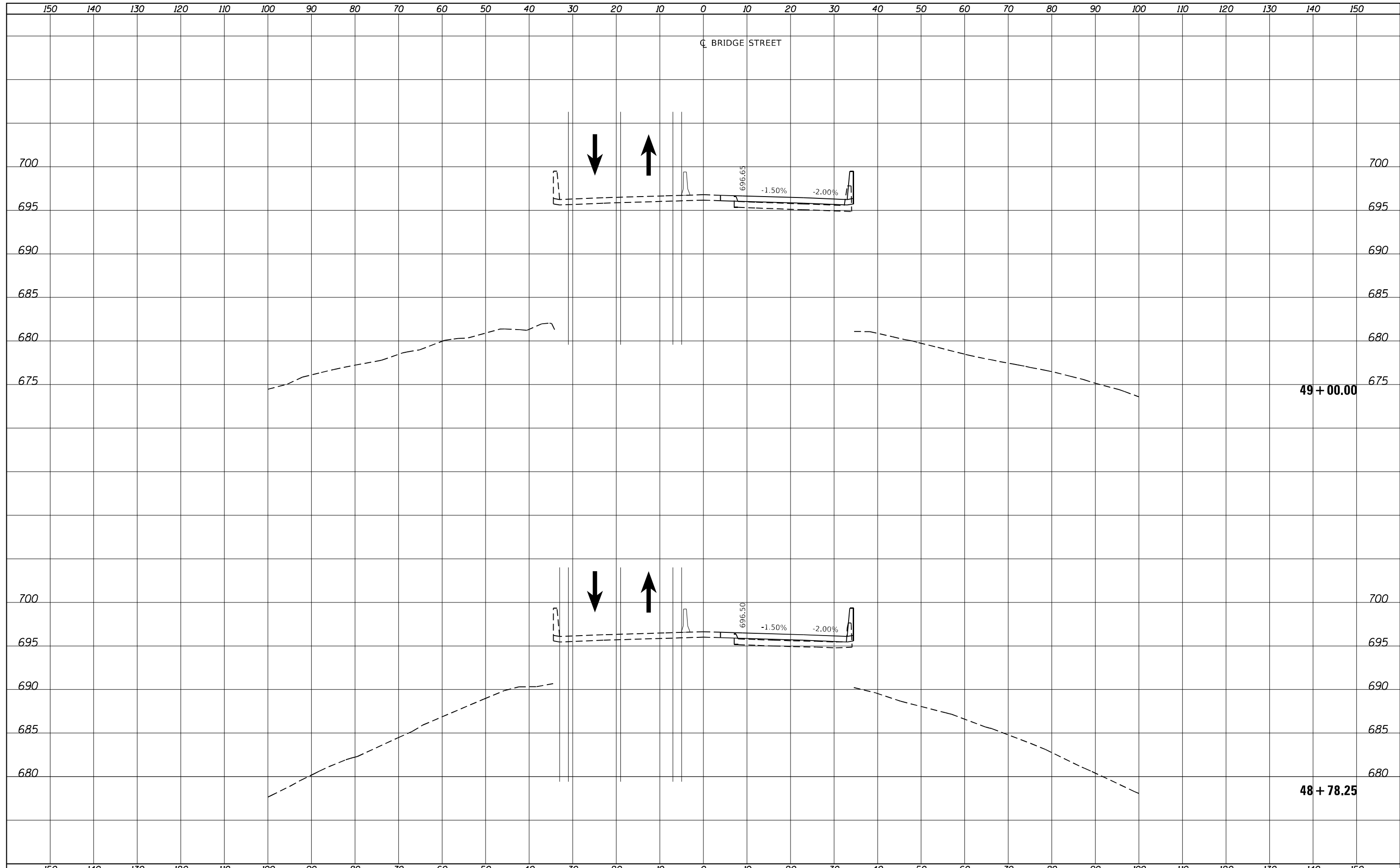
SCALE: 1" = 10' H  
 1" = 5' V

SHEET 4 OF 11 SHEETS STA. 47+00.00 TO STA. 48+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	(74-68)BR	PIATT	105	86
CONTRACT NO. 70D61			ILLINOIS FED. AID PROJECT	

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FINAL SURVEY	
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ORIGINAL SURVEY	
NOTE BOOK	
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 618.298.2800  
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PLOT DATE = 3/23/2023	DATE -	REVISIED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**BRIDGE STREET OVER I-72  
 STAGE 2 CROSS SECTIONS**

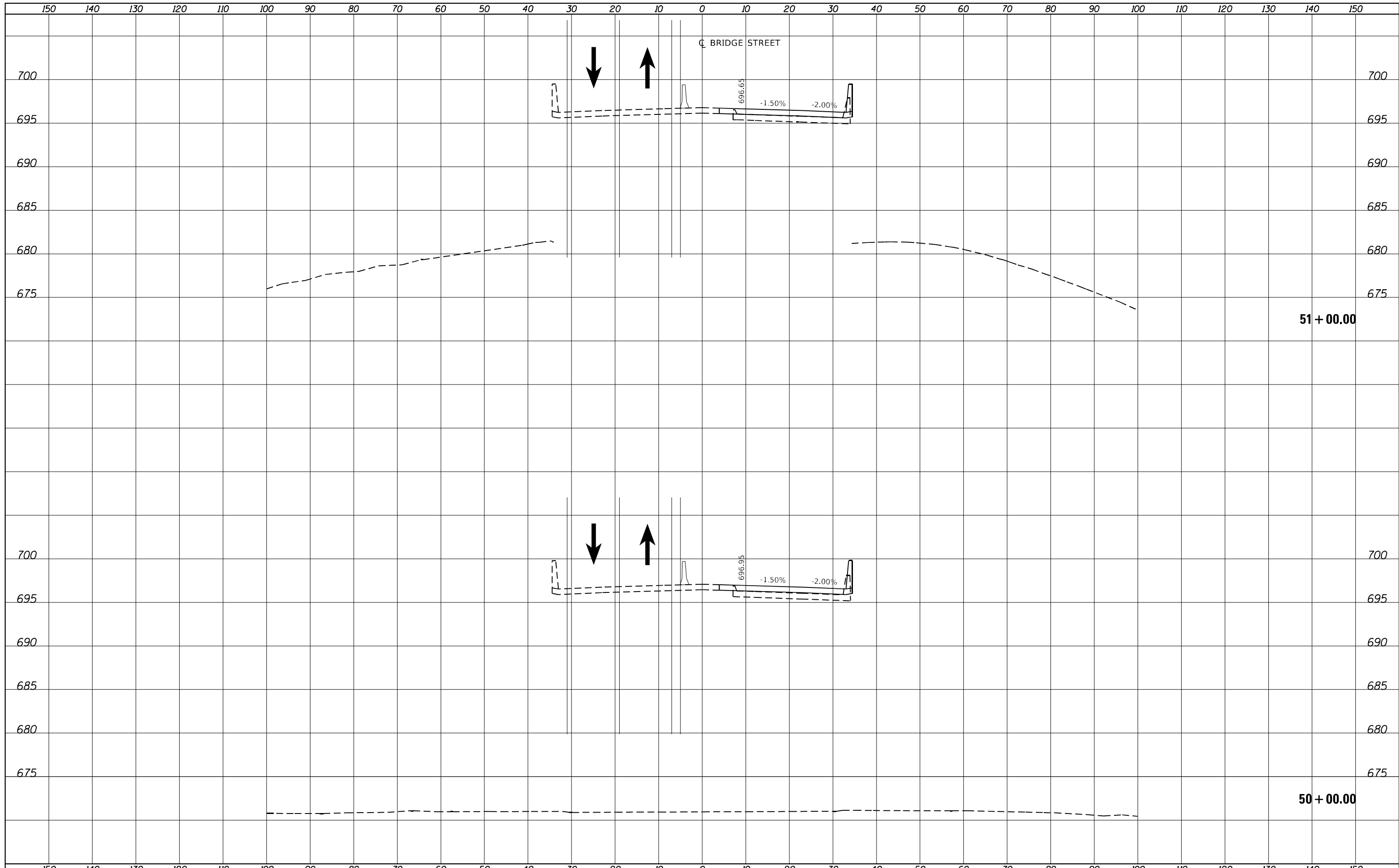
SCALE:  $\frac{1''}{50'}$  =  $\frac{10''}{500'}$  H  
 $\frac{1''}{5''}$  =  $\frac{10''}{50'}$  V

SHEET 5 OF 11 SHEETS STA. 48+78.25 TO STA. 49+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	(74-68)BR	PIATT	105	87
CONTRACT NO. 70D61				
ILLINOIS FED. AID PROJECT				

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FINAL SURVEY	
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ORIGINAL SURVEY	
NOTE BOOK	
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PLOT DATE = 3/23/2023	DATE -	REVISIED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**BRIDGE STREET OVER I-72  
 STAGE 2 CROSS SECTIONS**

SCALE: 1" = 10' H  
 1" = 5' V

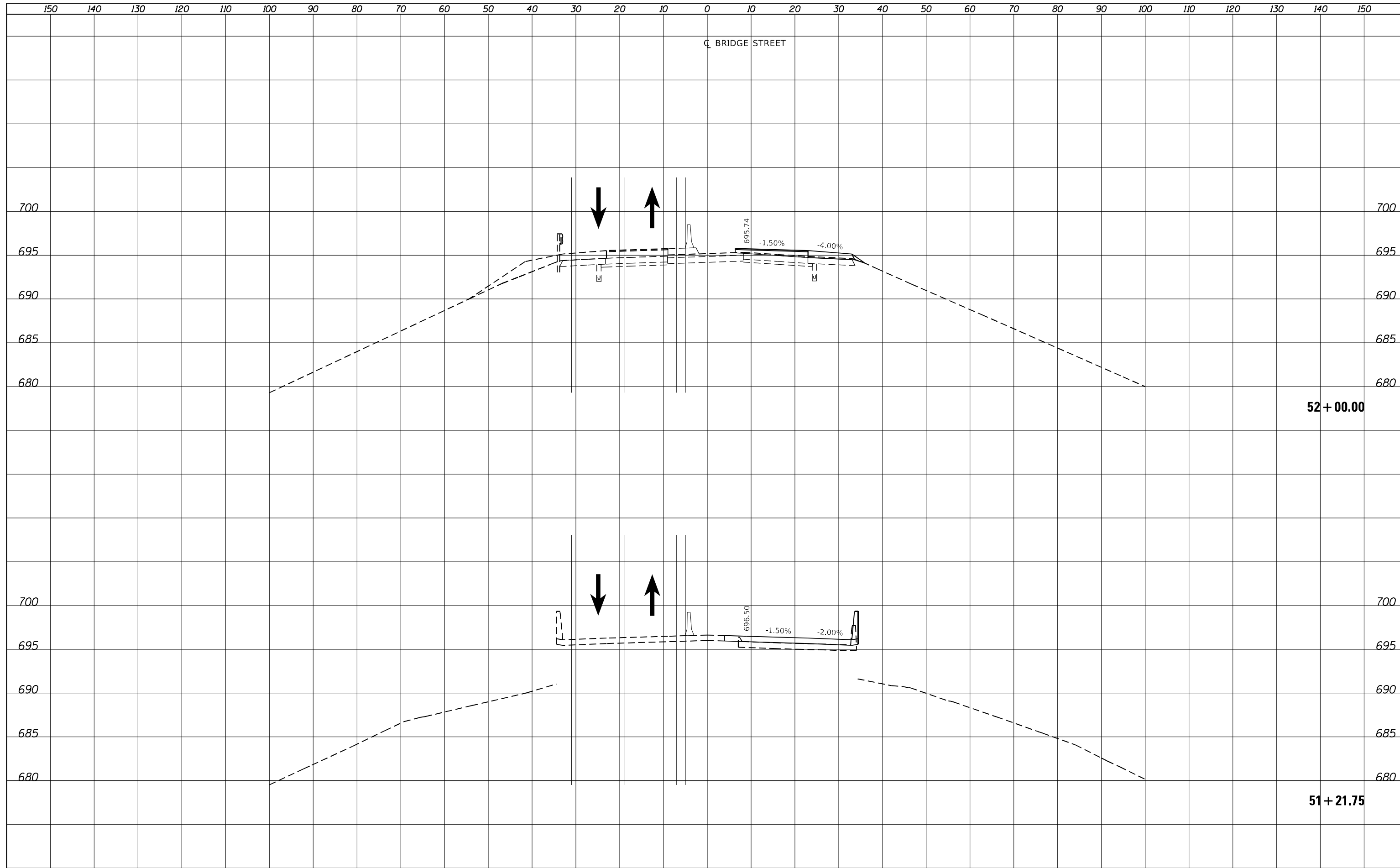
SHEET 6 OF 11 SHEETS STA. 50+00.00 TO STA. 51+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	(74-68)BR	PIATT	105	88
CONTRACT NO. 70D61				
ILLINOIS FED. AID PROJECT				



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FINAL SURVEY NOTE BOOK NO.	

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ORIGINAL SURVEY NOTE BOOK NO.	



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PLOT DATE = 3/23/2023	DATE -	REVISIED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**BRIDGE STREET OVER I-72  
 STAGE 2 CROSS SECTIONS**

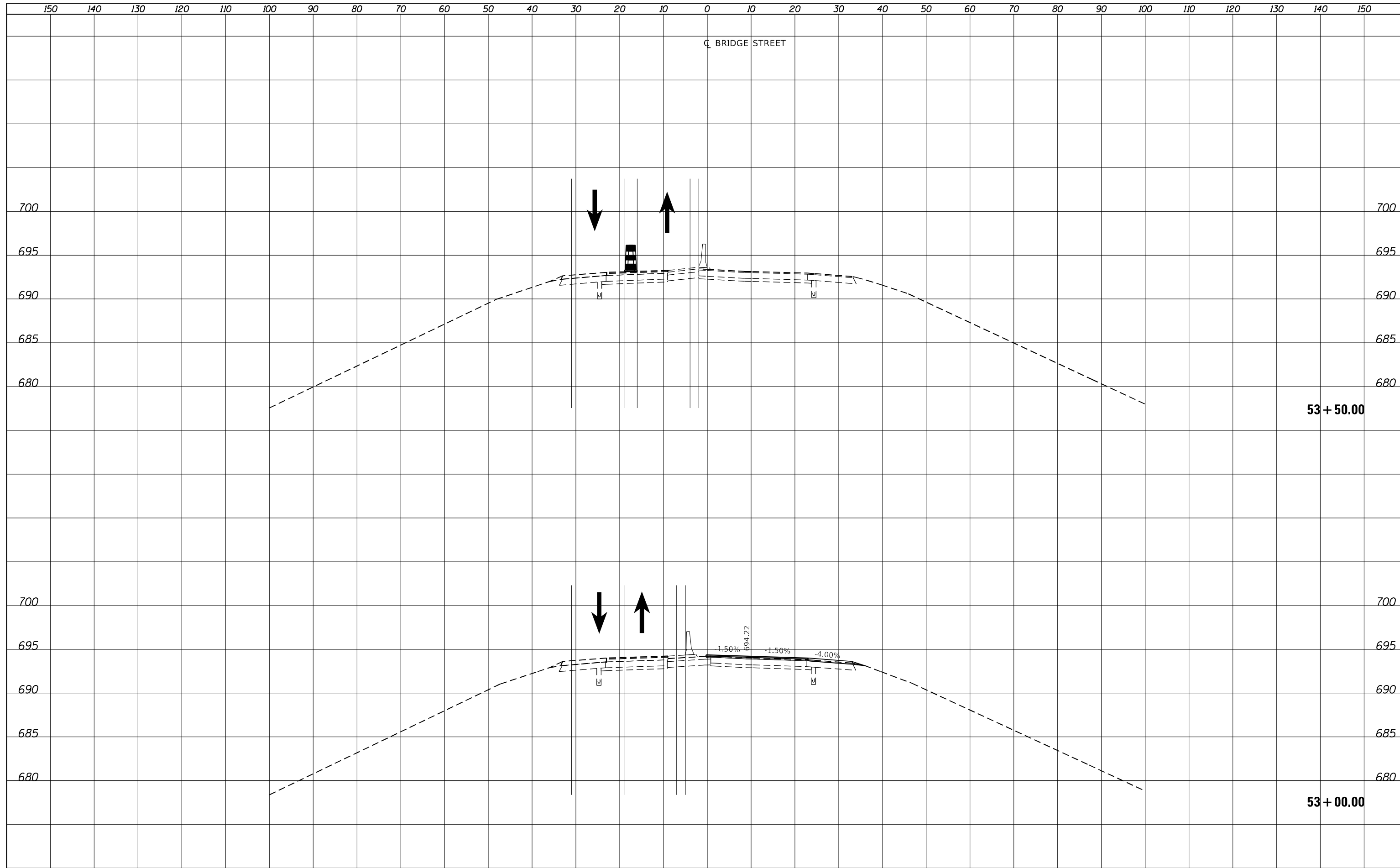
SCALE: 1" = 10' H  
 1" = 5' V

SHEET 7 OF 11 SHEETS STA. 51+21.75 TO STA. 52+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	(74-68)BR	PIATT	105	89
CONTRACT NO. 70D61			ILLINOIS FED. AID PROJECT	

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FINAL SURVEY NOTE BOOK NO.	

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CHECKED	
ORIGINAL SURVEY NOTE BOOK NO.	



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PLOT DATE = 3/23/2023	DATE -	REVISIED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**BRIDGE STREET OVER I-72  
 STAGE 2 CROSS SECTIONS**

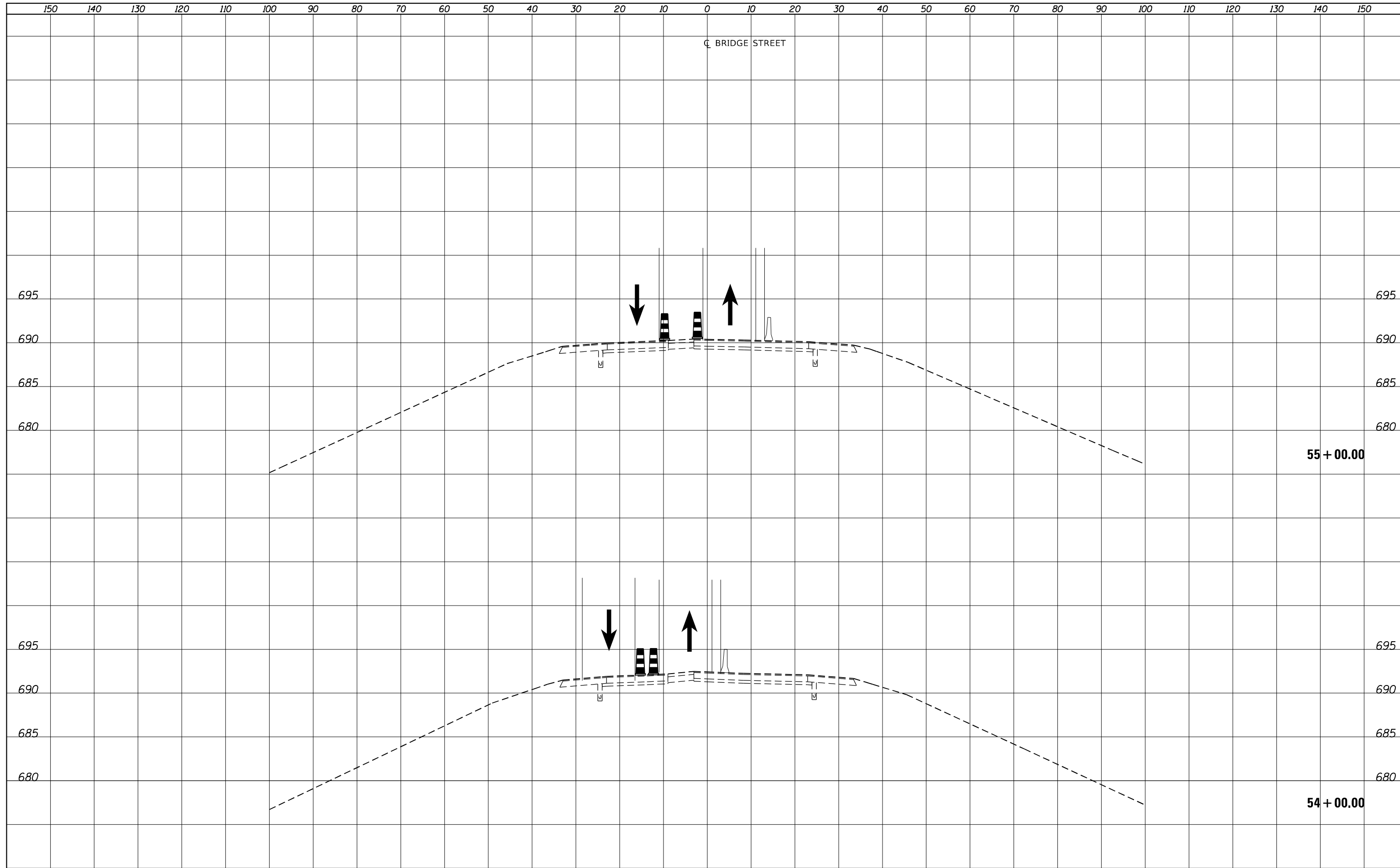
SCALE:  $\frac{1''}{50'}$  =  $\frac{10''}{500'}$  H  
 $\frac{1''}{5''}$  =  $\frac{10''}{50'}$  V

SHEET 8 OF 11 SHEETS STA. 53+00.00 TO STA. 53+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	(74-68)BR	PIATT	105	90
CONTRACT NO. 70D61				
ILLINOIS FED. AID PROJECT				

DATE	
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FINAL SURVEY NOTE BOOK NO.	

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ORIGINAL SURVEY NOTE BOOK NO.	



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PLOT DATE = 3/23/2023	DATE -	REVISIED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**BRIDGE STREET OVER I-72  
 STAGE 2 CROSS SECTIONS**

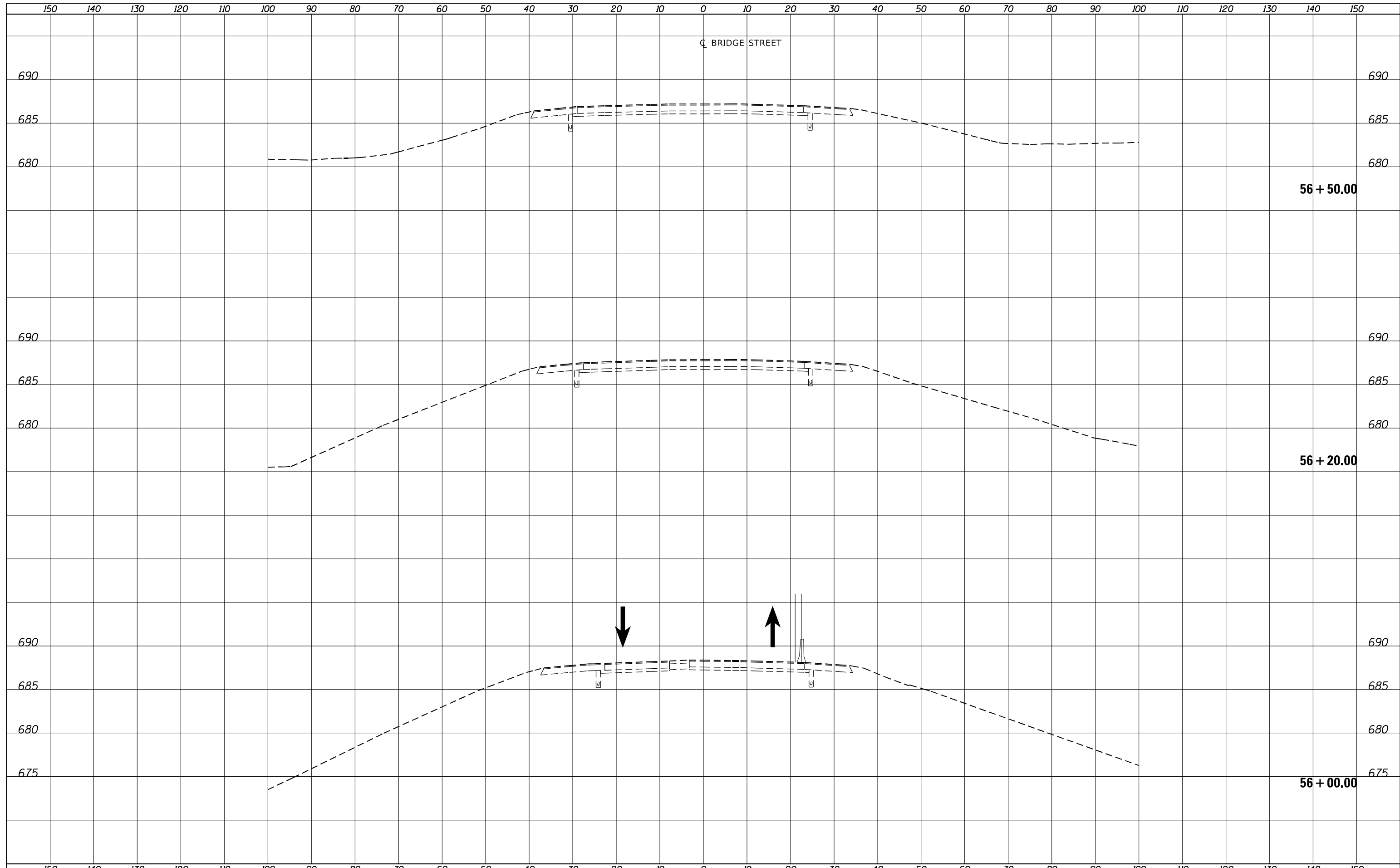
SCALE:  $\frac{1''}{50'}$  =  $\frac{10''}{500'}$  H  
 $\frac{1''}{5''}$  =  $\frac{1''}{5''}$  V

SHEET 9 OF 11 SHEETS STA. 54+00.00 TO STA. 55+00.00

F.A.I. RTE. 72	SECTION (74-68)BR	COUNTY PIATT	TOTAL SHEETS 105	SHEET NO. 91
			CONTRACT NO. 70D61	
ILLINOIS FED. AID PROJECT				

DATE	
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FINAL SURVEY	
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DATE	
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ORIGINAL SURVEY	
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**STATE OF ILLINOIS  
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**BRIDGE STREET OVER I-72  
 STAGE 2 CROSS SECTIONS**

SCALE:  $\frac{1''}{50'}$  =  $\frac{10''}{500'}$  H  
 $\frac{1''}{5''}$  =  $\frac{1''}{5''}$  V

SHEET 10 OF 11 SHEETS STA. 56+00.00 TO STA. 56+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	(74-68)BR	PIATT	105	92
CONTRACT NO. 70D61				
ILLINOIS FED. AID PROJECT				

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

C BRIDGE STREET

DATE	BY	SURVEYED	PLOTTED	AREAS CHECKED
NO.		NOTE BOOK	TEMPLATE	AREAS CHECKED

DATE	BY	SURVEYED	PLOTTED	AREAS CHECKED
NO.		NOTE BOOK	TEMPLATE	AREAS CHECKED

690

690

57 + 00.00

685

685

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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PLOT DATE = 3/23/2023	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**BRIDGE STREET OVER I-72  
 STAGE 2 CROSS SECTIONS**

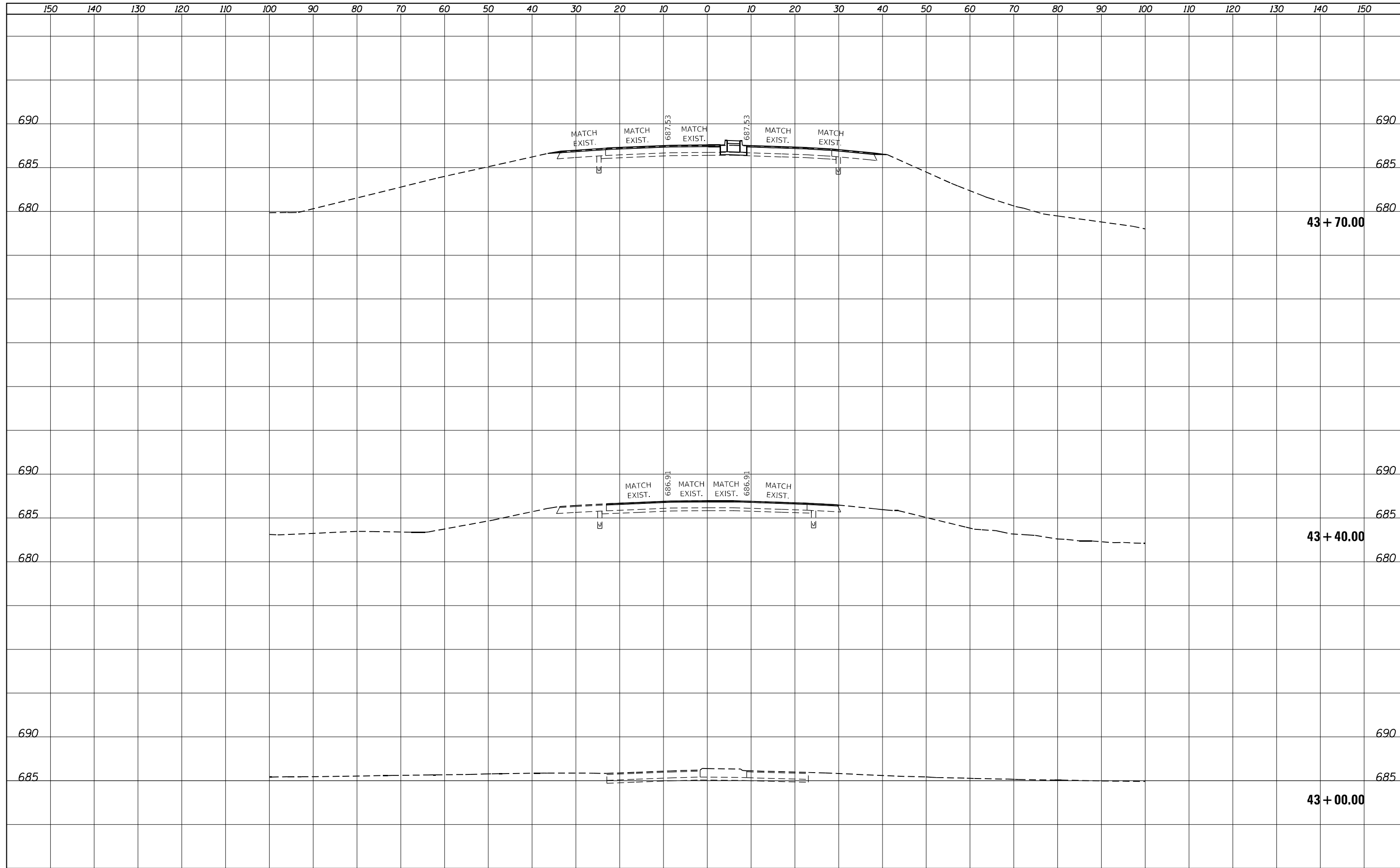
SCALE: 1" = 10' H, 1" = 5' V | SHEET 11 OF 11 SHEETS | STA. 57+00.00 TO STA. 57+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	(74-68)BR	PIATT	105	93
CONTRACT NO.			70D61	

ILLINOIS FED. AID PROJECT

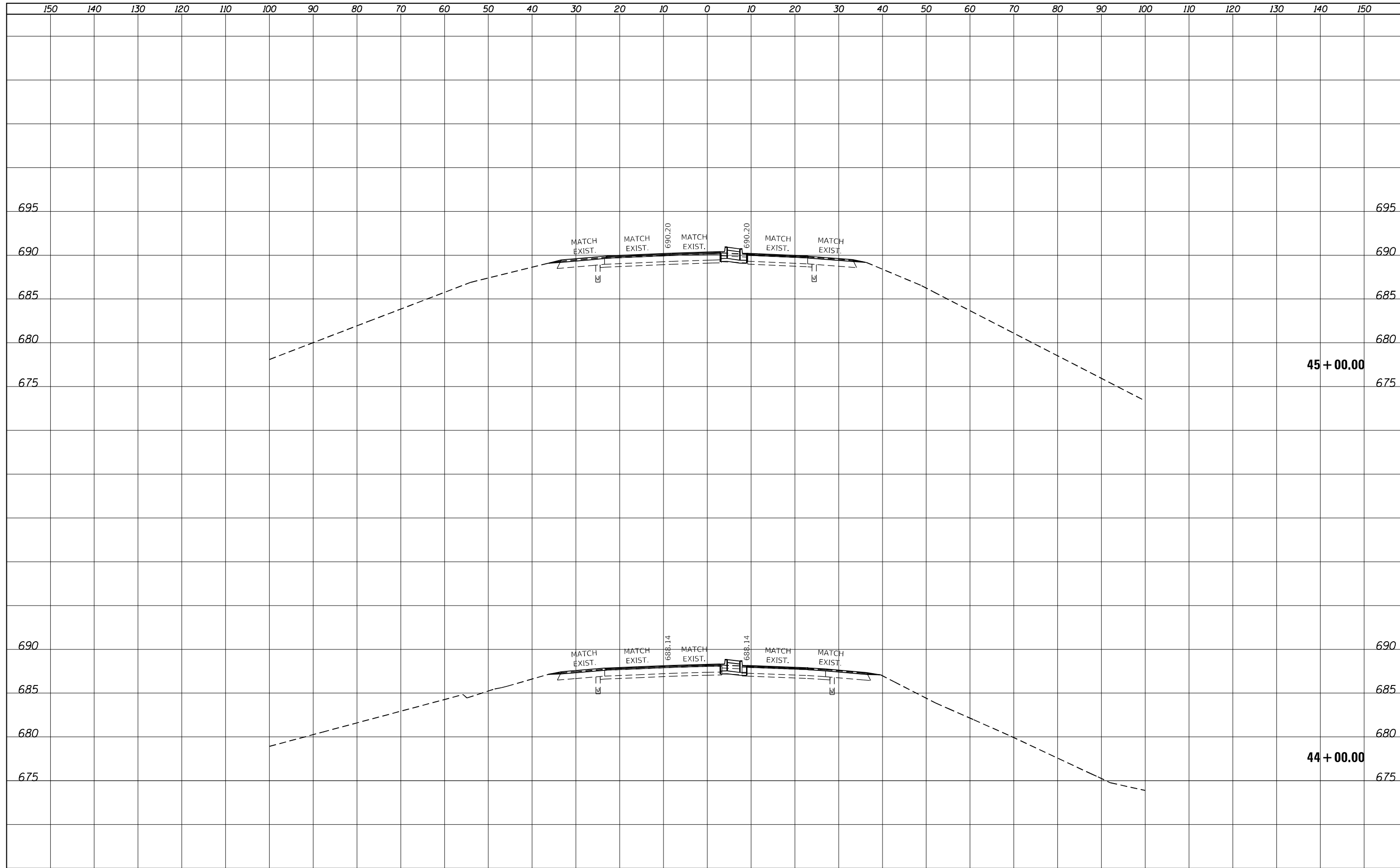
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ORIGINAL SURVEY NOTE BOOK NO.	



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PLOT DATE = 3/23/2023	DATE -	REVISIED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**BRIDGE STREET OVER I-72  
 STAGE 3 CROSS SECTIONS**

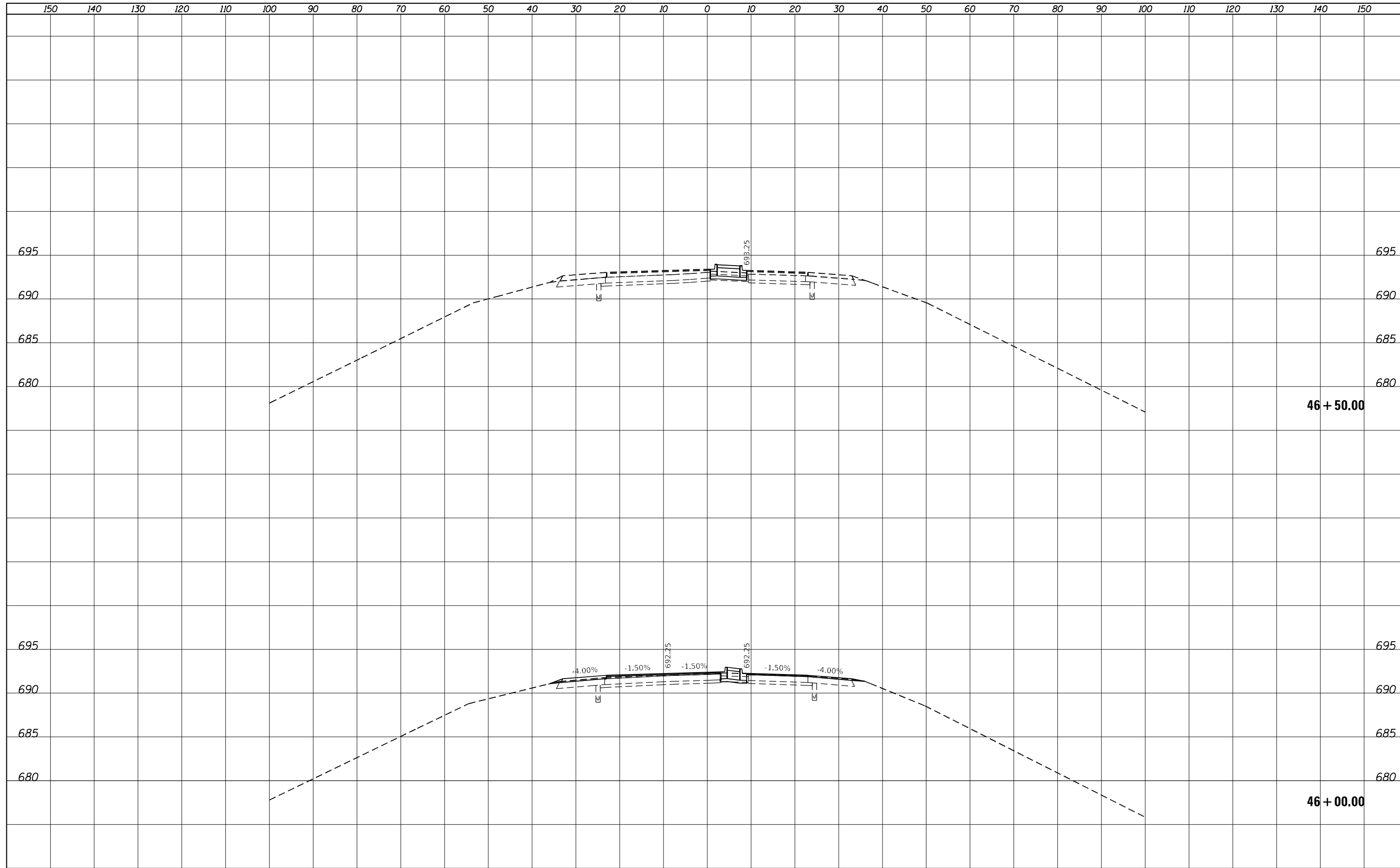
SCALE:  $\frac{1''}{50'}$  =  $\frac{10''}{500'}$  H  
 $\frac{1''}{5''}$  =  $\frac{10''}{50'}$  V

SHEET 2 OF 12 SHEETS STA. 44+00.00 TO STA. 45+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	(74-68)BR	PIATT	105	95
CONTRACT NO. 70D61				
ILLINOIS FED. AID PROJECT				

DATE	
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FINAL SURVEY NOTE BOOK NO.	

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ORIGINAL SURVEY NOTE BOOK NO.	



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PLOT SCALE = 20.0000' / in.	CHECKED -	REVISIED -
PLOT DATE = 3/23/2023	DATE -	REVISIED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**BRIDGE STREET OVER I-72  
 STAGE 3 CROSS SECTIONS**

SCALE:  $\frac{1''}{50'}$  =  $\frac{10''}{500'}$  H  
 $\frac{1''}{5''}$  =  $\frac{10''}{50'}$  V

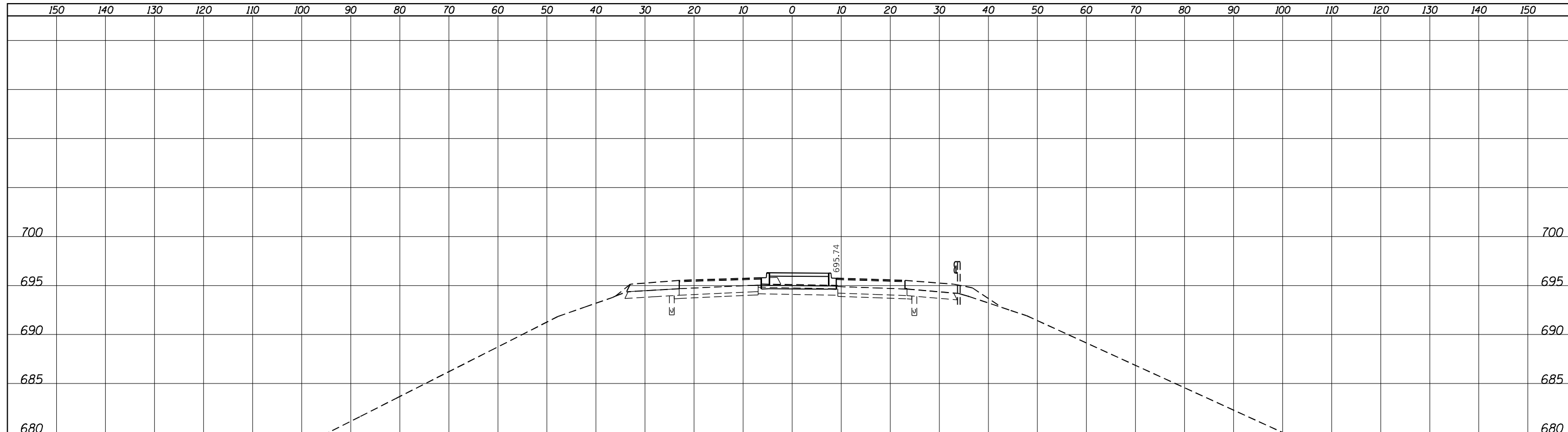
SHEET 3 OF 12 SHEETS STA. 46+00.00 TO STA. 46+50.00

F.A.I. RTE. 72	SECTION (74-68)BR	COUNTY PIATT	TOTAL SHEETS 105	SHEET NO. 96
			CONTRACT NO. 70D61	
ILLINOIS FED. AID PROJECT				

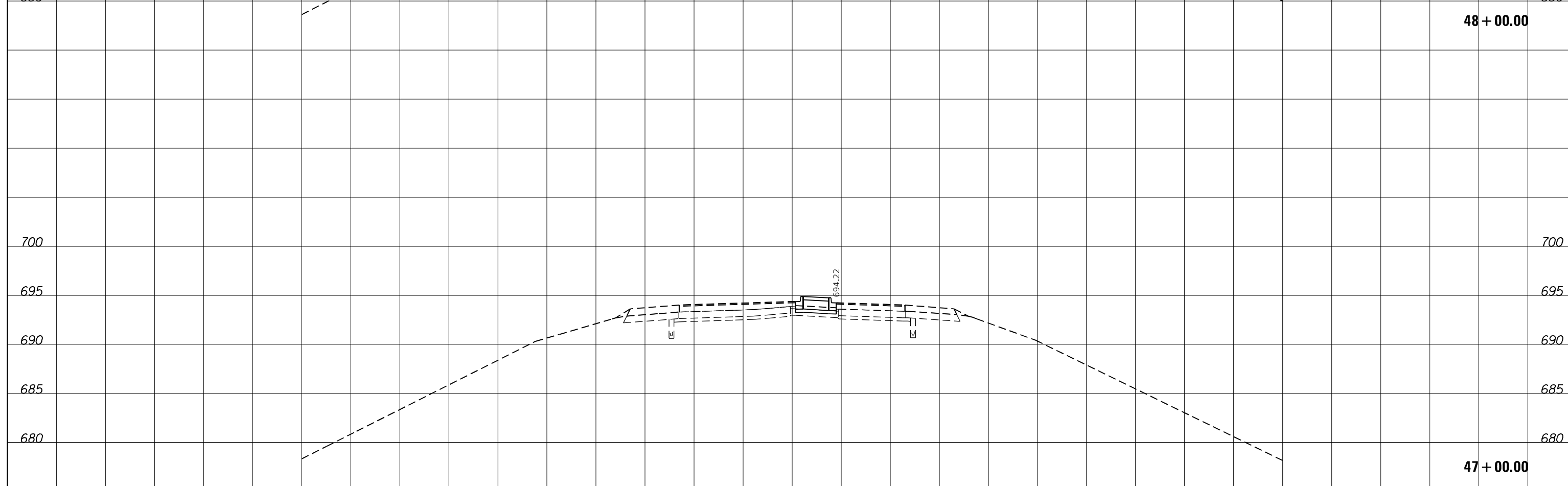


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NO.	FINISH SURVEY	NOTE BOOK	AREAS CHECKED	

DATE	BY	SURVEYED	PLOTTED	AREAS CHECKED
NO.	ORIGINAL SURVEY	NOTE BOOK	AREAS CHECKED	



**48 + 00.00**



**47 + 00.00**

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 Quincy, Illinois  
 618 North 24th Street  
 Quincy, IL 62422  
 Telephone: 618-242-1111  
 Fax: 618-242-1112  
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	DRAWN - TMD	REVISIED -
PLOT SCALE = 20.0000' / in.	CHECKED -	REVISIED -
PLOT DATE = 3/23/2023	DATE -	REVISIED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**BRIDGE STREET OVER I-72  
 STAGE 3 CROSS SECTIONS**

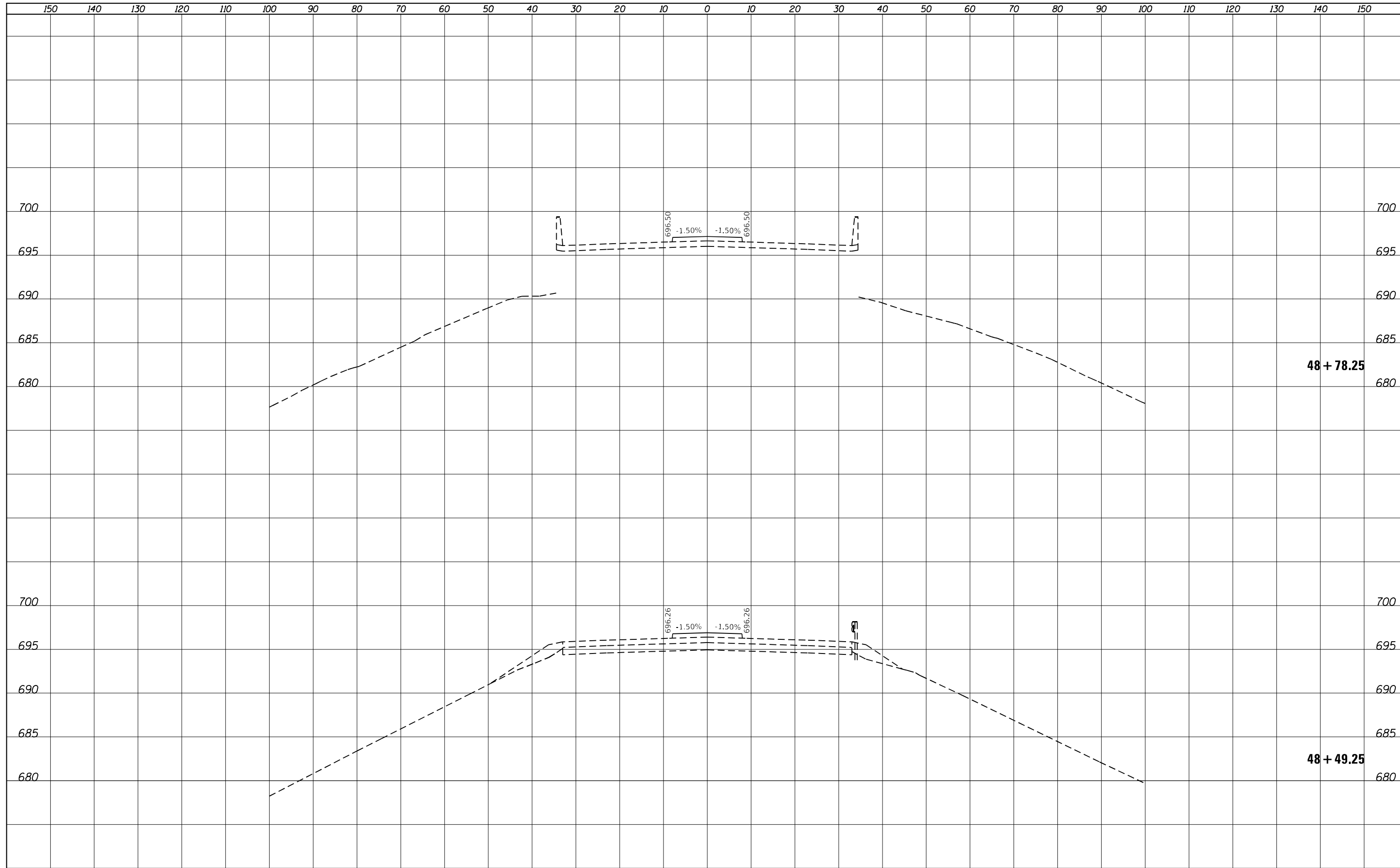
SCALE: 1" = 10' H  
 1" = 5' V

SHEET 4 OF 12 SHEETS STA. 47+00.00 TO STA. 48+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	(74-68)BR	PIATT	105	97
CONTRACT NO. 70D61				
ILLINOIS FED. AID PROJECT				

DATE	
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ORIGINAL SURVEY NOTE BOOK NO.	



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 Quincy, IL 62301

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	DRAWN - TMD	REVISIED -
PLOT SCALE = 20.0000' / in.	CHECKED -	REVISIED -
PLOT DATE = 3/23/2023	DATE -	REVISIED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**BRIDGE STREET OVER I-72  
 STAGE 3 CROSS SECTIONS**

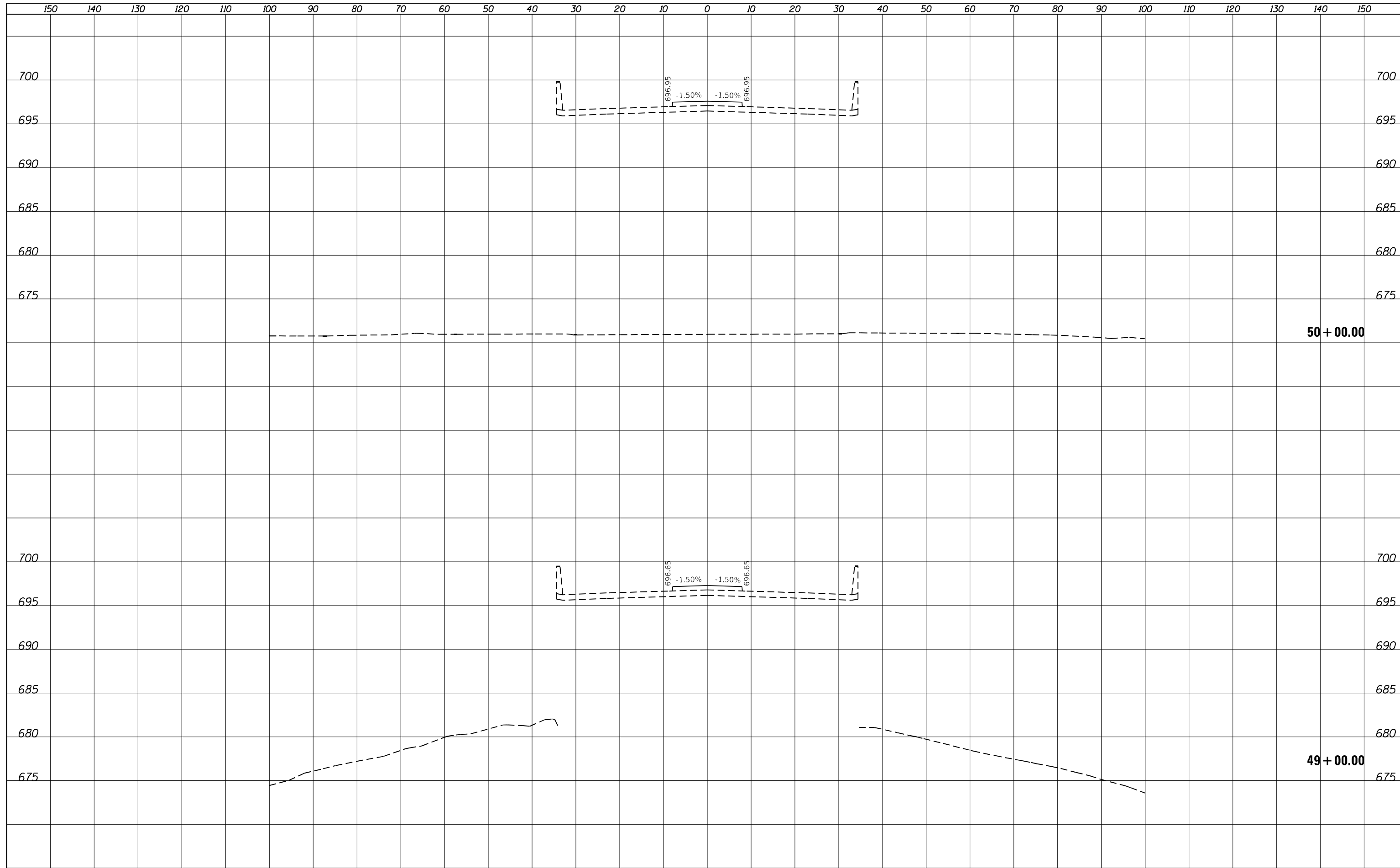
SCALE: 1" = 10' H  
 1" = 5' V

SHEET 5 OF 12 SHEETS STA. 48+49.25 TO STA. 48+78.25

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	(74-68)BR	PIATT	105	98
CONTRACT NO. 70D61				
ILLINOIS FED. AID PROJECT				

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FINAL SURVEY NOTE BOOK NO.	

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ORIGINAL SURVEY NOTE BOOK NO.	



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 618.298.2889

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PLOT DATE = 3/23/2023	DATE -	REVISIED -

**STATE OF ILLINOIS  
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**BRIDGE STREET OVER I-72  
 STAGE 3 CROSS SECTIONS**

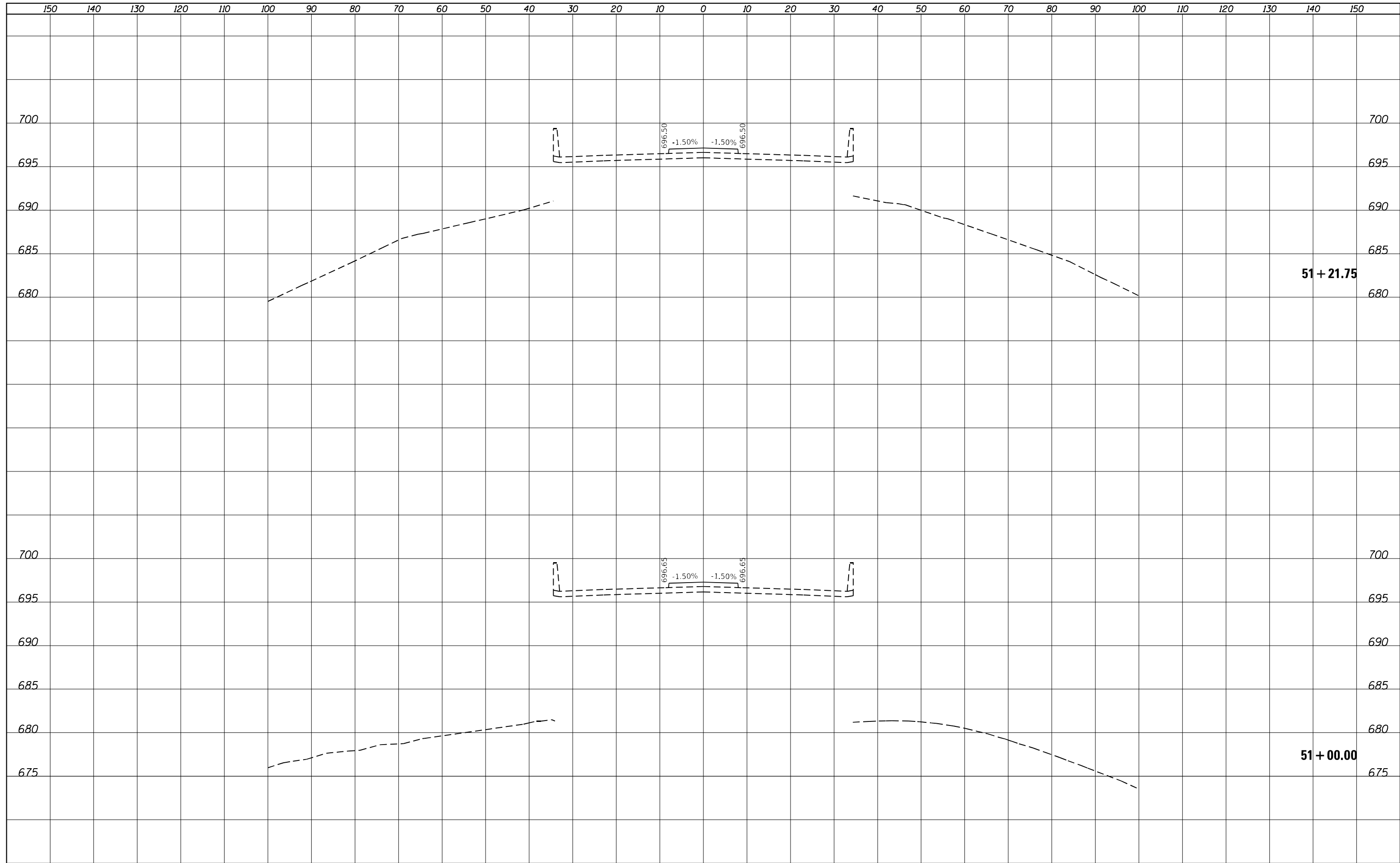
SCALE: 1" = 10' H  
 1" = 5' V

SHEET 6 OF 12 SHEETS STA. 49+00.00 TO STA. 50+00.00

F.A.I. RTE. 72	SECTION (74-68)BR	COUNTY PIATT	TOTAL SHEETS 105	SHEET NO. 99
CONTRACT NO. 70D61			ILLINOIS FED. AID PROJECT	

DATE	
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FINAL SURVEY	
NOTE BOOK	
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ORIGINAL SURVEY	
NOTE BOOK	
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**BRIDGE STREET OVER I-72  
 STAGE 3 CROSS SECTIONS**

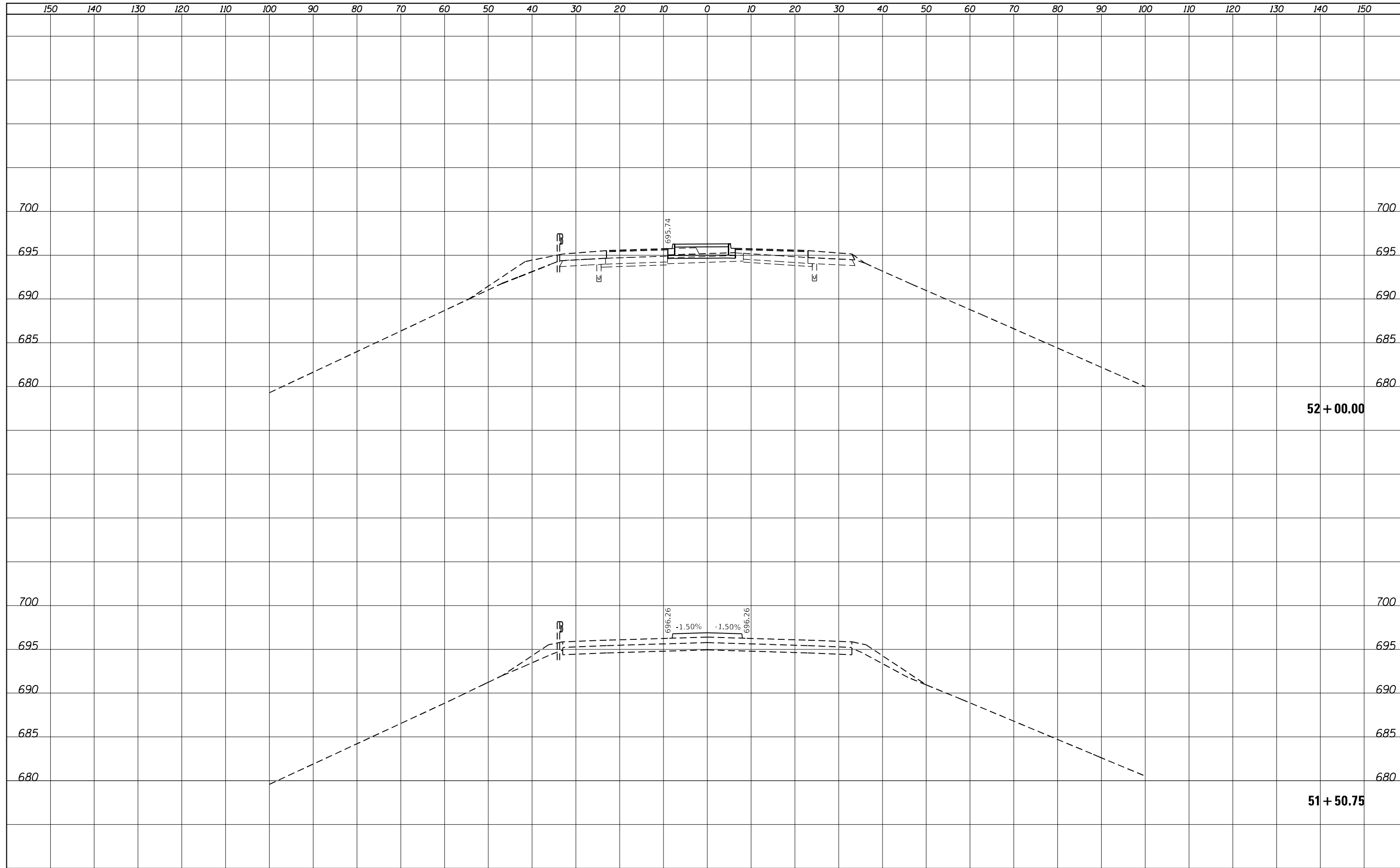
SCALE:  $\frac{1''}{50'}$  =  $\frac{10''}{500'}$  H  
 $\frac{1''}{5''}$  =  $\frac{10''}{50'}$  V

SHEET 7 OF 12 SHEETS STA. 51+00.00 TO STA. 51+21.75

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	(74-68)BR	PIATT	105	100
CONTRACT NO.			70D61	
ILLINOIS FED. AID PROJECT				

DATE	
BY	
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FINAL SURVEY NOTE BOOK NO.	

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PLOT DATE = 3/23/2023	DATE -	REVISIED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

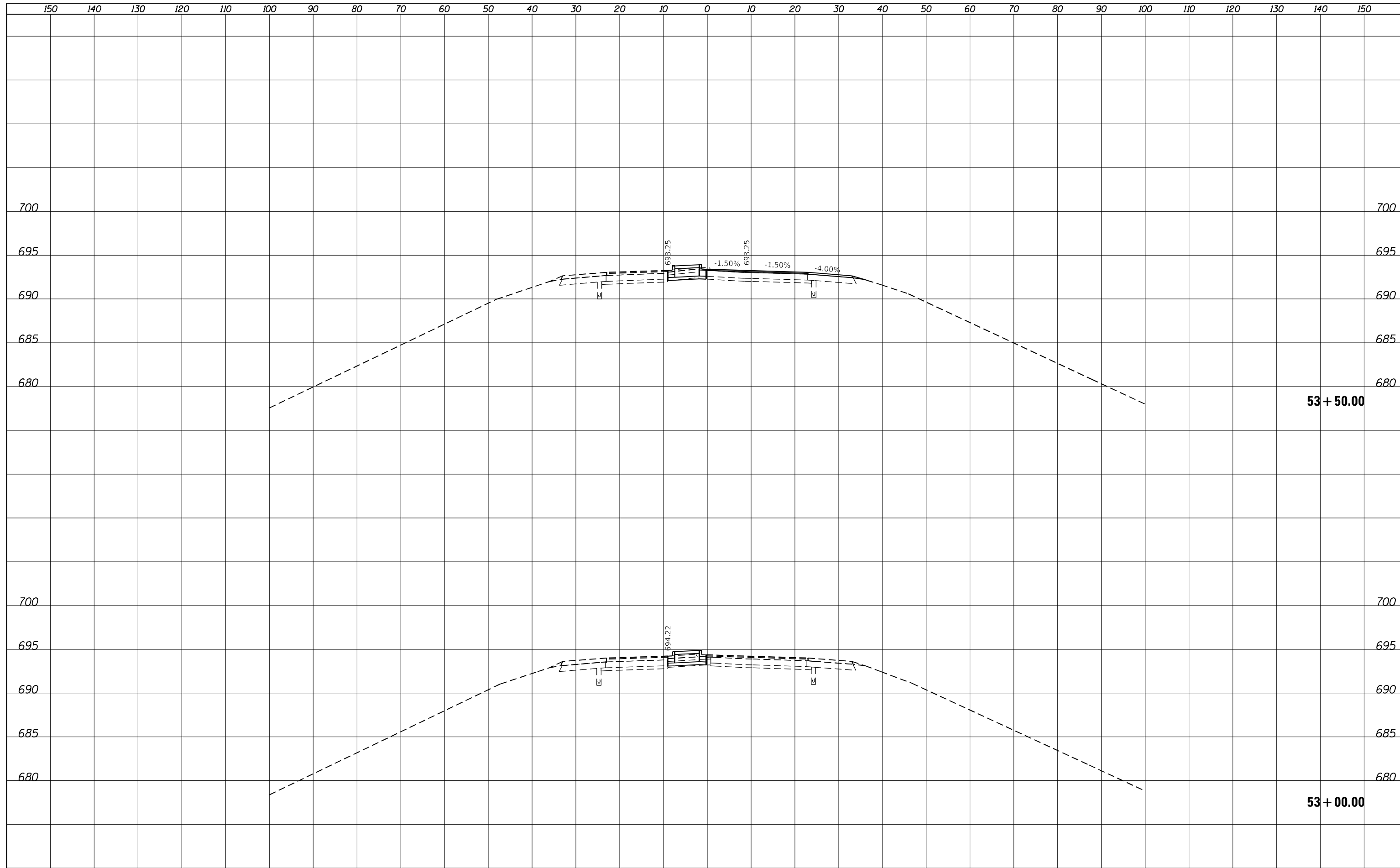
**BRIDGE STREET OVER I-72  
 STAGE 3 CROSS SECTIONS**

SCALE:  $\frac{1''}{50'}$  H  
 $\frac{1''}{5'}$  V SHEET 8 OF 12 SHEETS STA. 51+50.75 TO STA. 52+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	(74-68)BR	PIATT	105	101
CONTRACT NO. 70D61			ILLINOIS FED. AID PROJECT	

DATE	
BY	
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FINAL SURVEY NOTE BOOK NO.	

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PLOT DATE = 3/23/2023	DATE -	REVISIED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**BRIDGE STREET OVER I-72  
 STAGE 3 CROSS SECTIONS**

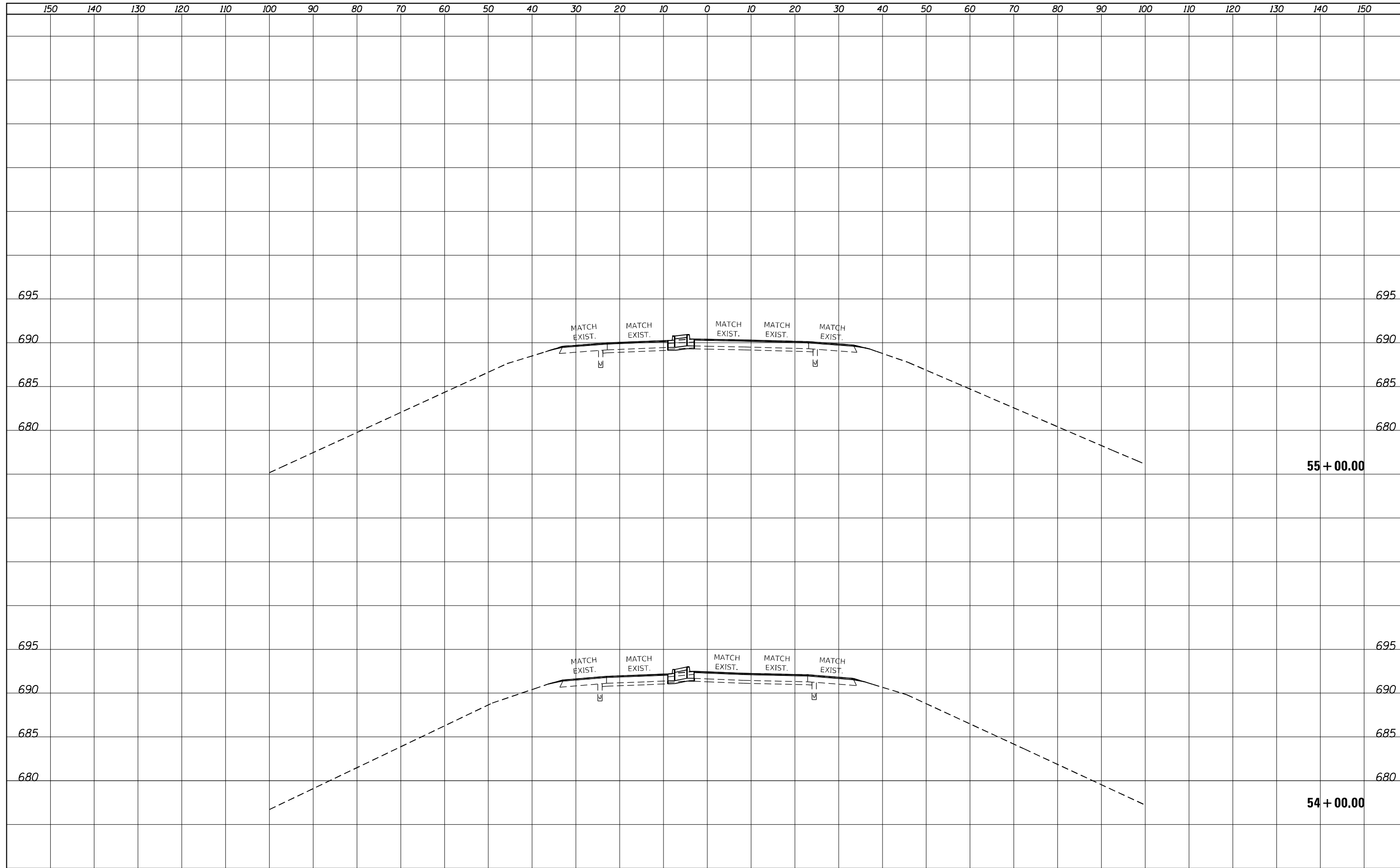
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 $\frac{1''}{5''}$  =  $\frac{10''}{50'}$  V

SHEET 9 OF 12 SHEETS STA. 53+00.00 TO STA. 53+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	(74-68)BR	PIATT	105	102
CONTRACT NO. 70D61				
ILLINOIS FED. AID PROJECT				

DATE	
BY	
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PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
FINAL SURVEY NOTE BOOK NO.	

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**STATE OF ILLINOIS  
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**BRIDGE STREET OVER I-72  
 STAGE 3 CROSS SECTIONS**

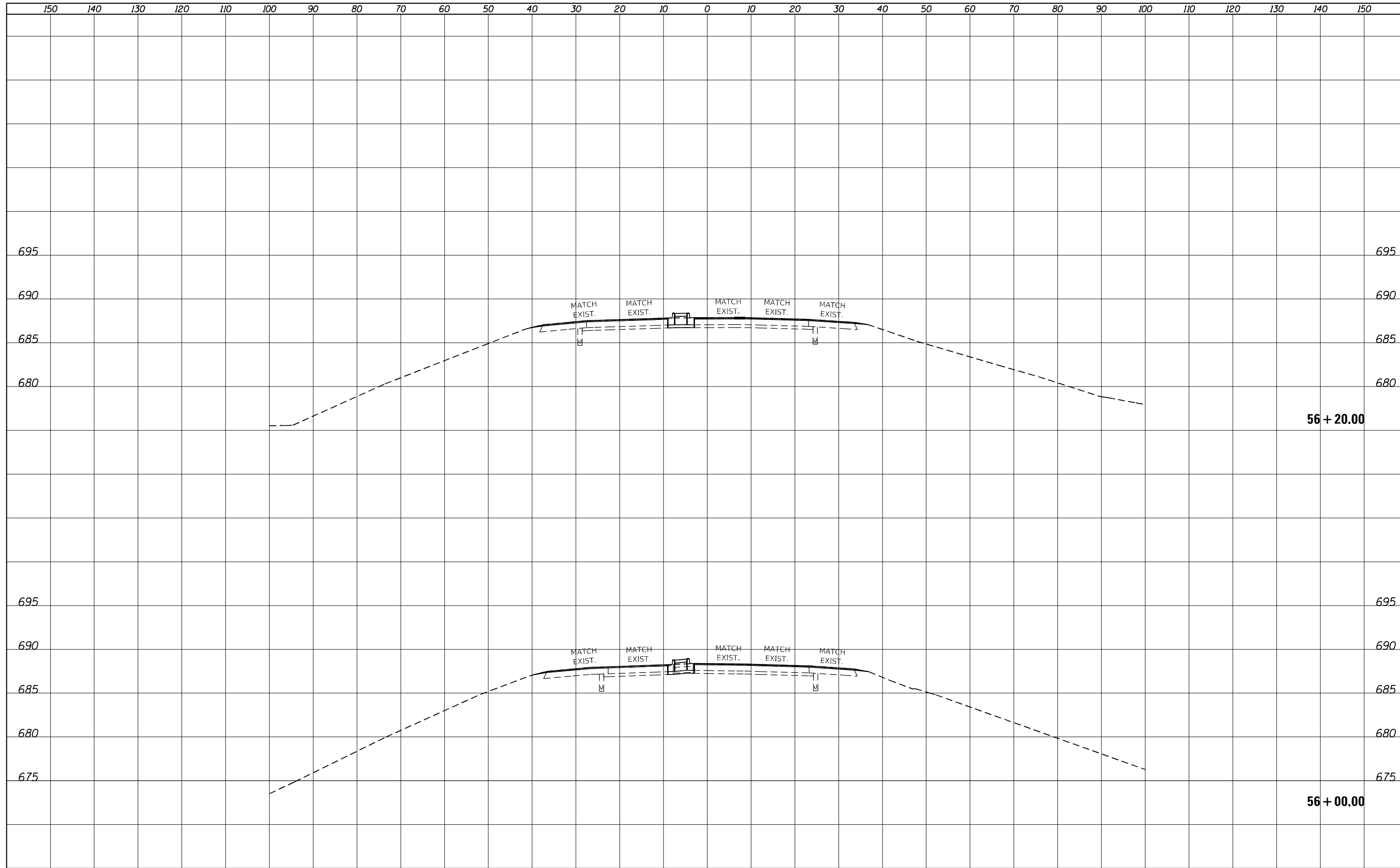
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 $\frac{1''}{5''}$  =  $\frac{10''}{50'}$  V

SHEET 10 OF 12 SHEETS STA. 54+00.00 TO STA. 55+00.00

F.A.I. RTE. 72	SECTION (74-68)BR	COUNTY PIATT	TOTAL SHEETS 105	SHEET NO. 103
			CONTRACT NO. 70D61	
ILLINOIS FED. AID PROJECT				

DATE	
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FINAL SURVEY NOTE BOOK NO.	

DATE	
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ORIGINAL SURVEY NOTE BOOK NO.	



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**BRIDGE STREET OVER I-72  
 STAGE 3 CROSS SECTIONS**

SCALE:  $\frac{1''}{50'}$  =  $\frac{10''}{500'}$  H  
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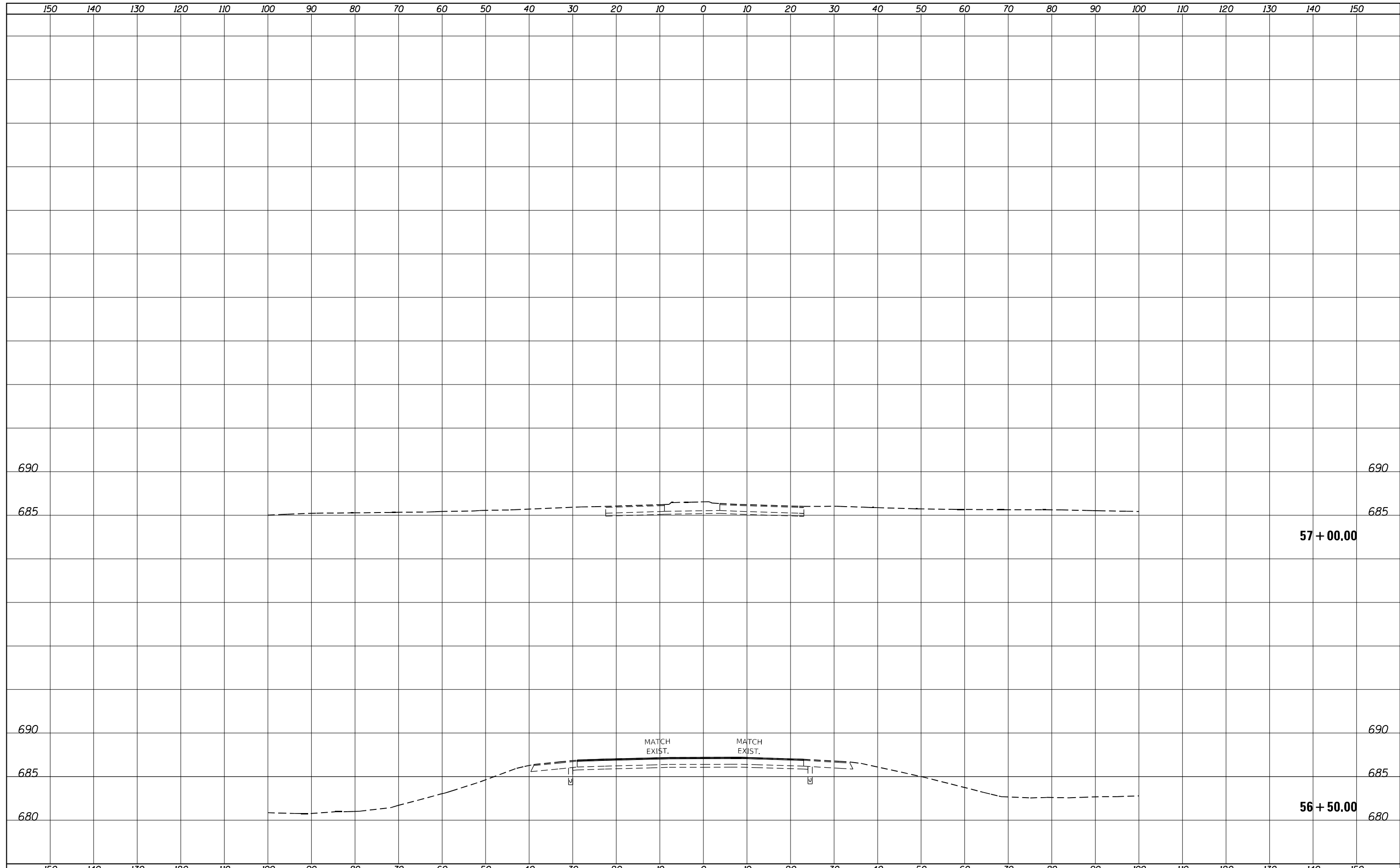
SHEET 11 OF 12 SHEETS STA. 56+00.00 TO STA. 56+20.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	(74-68)BR	PIATT	105	104
CONTRACT NO. 70D61				
ILLINOIS FED. AID PROJECT				



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**BRIDGE STREET OVER I-72  
 STAGE 3 CROSS SECTIONS**

SCALE:  $\frac{1''}{50'}$  =  $\frac{10''}{500'}$  H  
 $\frac{1''}{5''}$  =  $\frac{10''}{50'}$  V

SHEET 12 OF 12 SHEETS STA. 56+50.00 TO STA. 57+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	(74-68)BR	PIATT	105	105
CONTRACT NO. 70D61			ILLINOIS FED. AID PROJECT	