11-06-2026 LETTING ITEM 081

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-6VBR	ADAMS	113*	1
	ILLINOIS	CONTRACT NO. 72250		

* 113 + 1 = 114 TOTAL SHEETS

D-96-094-22

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED HIGHWAY PLANS

FAI ROUTE 172 (I-172)
SECTION 1-6VBR
PROJECT BR-PB9I(996)
BRIDGE SUPERSTRUCTURE REHABILITATION
ADAMS COUNTY

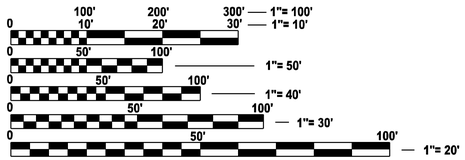
C-96-036-23

INDEX OF SHEETS

1	COVER SHEET
2	GENERAL NOTES
3-9	SUMMARY OF QUANTITIES
10-11	SCHEDULE OF QUANTITIES
12	TYPICAL SECTIONS
13	ALIGNMENT, & BENCHMARKS
14	REMOVAL PLANS
15-16	ROADWAY PLAN AND PROFILE
17-29	TRAFFIC CONTROL PLAN
30-31	MAX WIDTH DETAIL
32	PAVEMENT MARKING AND EROSION CONTROL
33	DITCH PROFILES
34	SLOPE IMPROVEMENT & BUTT JOINT DETAIL
35-75	STRUCTURE PLANS
76-91	EXISTING STRUCTURE PLANS
92-113	CROSS SECTIONS

Matthew R Smith 8/14/2026

License Expires 11/30/2027
THE SEAL SHOWN ABOVE IS VALID FOR THE FOLLOWING SHEETS IN THE PLANS WHICH WERE PREPARED UNDER MY DIRECT SUPERVISION:
SHEETS: 1-34 & 92-113



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.

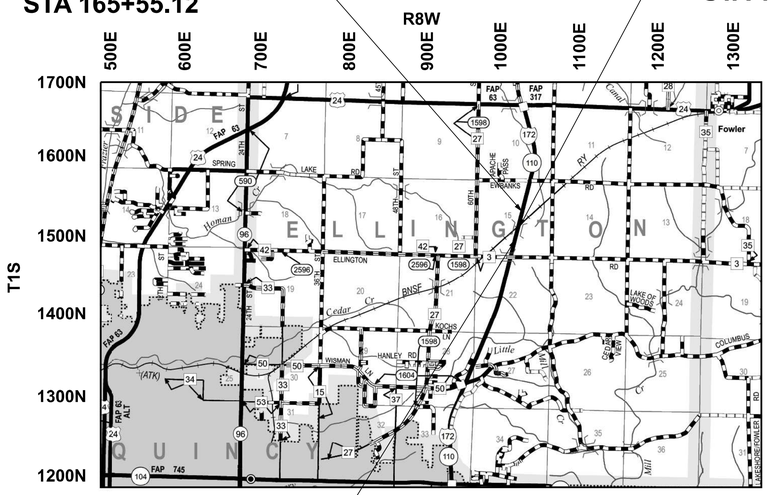
J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

PROJECT ENGINEER: JAY EDWARDS
PHONE: (217) 785-0597
PROJECT MANAGER: JONATHAN W. COX
PHONE: (217) 782-1378

CONTRACT NO. 72250

END IMPROVEMENTS
STA 165+55.12

BRIDGE REHABILITATION
SN 001-0050 & 001-0051
STA 161+44.62



BEGIN IMPROVEMENTS
STA 157+04.19

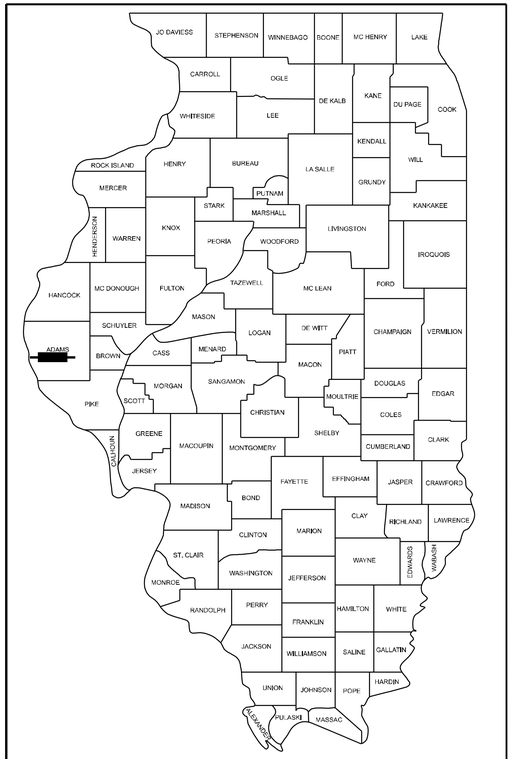
N

LOCATION MAP
NOT TO SCALE

GROSS LENGTH = 850.93 FT. = 0.161 MILE
NET LENGTH = 850.93 FT. = 0.161 MILE

PLANS PREPARED BY

FUHRMANN ENGINEERING
WWW. FUHRMANN-ENG .COM
2852 S 11th St, Springfield, IL 62703
Phone: (217) 529-5577
Illinois Professional Design Firm No. 184-003252
License Expires 4/30/2026



LOCATION OF SECTION INDICATED THUS: -

FUNCTIONAL CLASSIFICATION
INTERSTATE
2023 ADT = 7,350
P.V.=89.12% S.U.=3.40 M.U.=7.48%

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED August 21, 2026
Teresa C. Price
REGIONAL ENGINEER

October 2 20 26
ENGINEER OF DESIGN AND ENVIRONMENT

October 2 20 26
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

REV - MS

GENERAL NOTES

1. ALL ELEVATIONS SHOWN ON THE PLANS ARE BASED ON NAVD-88 DATUM.

2. THE MATERIAL USED FOR AGGREGATE WEDGE SHOULDERS, TYPE B SHALL BE CRUSHED STONE, CRUSHED CONCRETE, OR RAP.

3. REMOVED GUARDRAIL THAT IS NOT REPLACED ON THE SAME DAY MUST BE DELINEATED WITH LIGHTED BARRICADES. NO LOCATIONS WILL BE LEFT WITHOUT EITHER LIGHTED BARRICADES OR RESTORED GUARDRAIL AT ANY TIME.

4. THE CONTRACTOR SHALL USE TYPE IV PAVEMENT MARKING TAPE AS SHORT-TERM PAVEMENT MARKING ON THE SURFACE LIFT.

5. FOR BNSF SIGNAL/TELECOMMUNICATION ENGINEERING, "CALL BEFORE YOU DIG", CALL 1-800-533-2891 (TELECOM) AND 1-800-832-5452 (SIGNAL)
   BNSF'S EMERGENCY RESPONSE HOTLINE: 1-800-832-5452
   FOR BNSF GRADE CROSSING: 1-800-832-5452
   PLEASE REFER TO BNSF WEBSITE FOR UTILITY REVIEW AND APPROVAL PROCESS AND APPLICATION. BNSF WEBSITE: WWW.BNSF.COM
   A FLAGMAN IS REQUIRED WHEN ANY WORK IS PERFORMED WITHIN 25 FEET OF TRACK CENTERLINE. IF THE RAILROAD PROVIDES FLAGGING OR OTHER SERVICES, THE CONTRACTOR SHALL NOT BE RELIEVED OF ANY RESPONSIBILITIES OR LIABILITIES AS SET FORTH IN ANY DOCUMENT AUTHORIZING THE WORK. NO WORK IS ALLOWED WITHIN 50 FEET OF TRACK CENTERLINE WHEN A TRAIN PASSES THE WORK SITE, AND ALL PERSONNEL MUST CLEAR THE AREA WITHIN 25 FEET OF TRACK CENTERLINE AND SECURE ALL EQUIPMENT WHEN TRAINS ARE PRESENT.
   VEGETATION ON OR ADJACENT TO BNSF ROW SHALL NOT BECOME A FIRE HAZARD OR OBSTRUCTION TO INSPECTION.
   RAILROAD DITCHES MUST REMAIN OPEN AT ALL TIMES DURING CONSTRUCTION.
   ACCESS TO BNSF ROW MUST BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.

RATE TABLE

THE FOLLOWING RATES OF APPLICATION HAVE BEEN ASSUMED IN CALCULATING PLAN QUANTITIES.		
AGGREGATE (SURFACE, BASE, & BACKFILL)	1.80 TON / CU YD	
BITUMINOUS MATERIALS (TACK COAT):	0.05 LB / SQ FT (MILLING)	0.025 LBS / SQ FT (HMA LIFTS)
HOT MIX ASPHALT RESURFACING	112 LB / SQ YD / IN	
AGGREGATE WEDGE SHOULDERS, TYPE B	1.60 TON / CU YD	
RIP RAP	1.5 TON / CU YD	
SHORT TERM PAVEMENT MARKINGS	4" PER 40' (CENTER LINE)	4' PER 200' AT 45° (SHOULDER)
NITROGEN FERTILIZER NUTRIENT	90 LB / ACRE	
PHOSPHORUS FERTILIZER NUTRIENT	90 LB / ACRE	
POTASSIUM FERTILIZER NUTRIENT	90 LB / ACRE	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
DISTRICT 6

EXAMINED August 3, 20 26
ENGINEER OF OPERATIONS

EXAMINED August 4, 20 26
ENGINEER OF PROJECT IMPLEMENTATION

EXAMINED July 27, 20 26
ENGINEER OF PROGRAM DEVELOPMENT

PRELIMINARY MIXTURE REQUIREMENTS

Location(s):	Mainline
Mixture Use(s):	HMA Surface
PG:	SBS PG 70-22
Design Air Voids:	4.0% @ N=70
Mixture Composition:	IL-9.5
Friction Aggregate:	Mix "D"
Mixture Weight:	112 lb/sy*in
Quality Management:	QC/QA
Sublot Size:	N/A
Material Transfer Device Required :	No

Location(s):	
Mixture Use(s):	HMA Shld
PG:	PG 58-28
Design Air Voids:	4.0% @ N=50
Mixture Composition:	IL-9.5
Friction Aggregate:	Mix "C"
Mixture Weight:	112 lb/sy*in
Quality Management:	QC/QA
Sublot Size:	N/A
Material Transfer Device Required :	No

NOTE: NUCLEAR GAUGE WILL BE USED FOR DENSITY VERIFICATION BY THE ENGINEER ON QC/QA ITEMS

HIGHWAY STANDARDS

000001-09	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420401-13	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB
515001-04	NAME PLATE FOR BRIDGES
542401-04	METAL FLARED END SECTION FOR PIPE CULVERTS
606001-09	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
610001-09	SHOULDER INLET WITH CURB
630001-13	STEEL PLATE BEAM GUARDRAIL
630301-09	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631031-18	TRAFFIC BARRIER TERMINAL, TYPE 6
635001-02	DELINEATORS
642001-03	SHOULDER RUMBLE STRIPS, 16 IN.
701101-05	OFF-ROAD OPERATIONS, MULTILANE, 15' (4.5 M) TO 24" (600 MM) FROM PAVEMENT EDGE
701106-02	OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' (4.5 M) AWAY
701400-12	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701402-12	LANE CLOSURE, FREEWAY/EXPRESSWAY, WITH BARRIER
701426-09	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATION, FOR SPEEDS ≥ 45 MPH
701901-11	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
725001-01	OBJECT AND TERMINAL MARKERS
780001-05	TYPICAL PAVEMENT MARKINGS
781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
701401-13	LANE CLOSURE, FREEWAY/EXPRESSWAY

REV - MS

MODEL: General Notes
FILE NAME: C:\Users\ggayt\Fuhrmann Engineering\Internal - Drive\Projects\FE\Jobs\ 2023\23-2100_PTB206-040_D6_V-V_Ph1-2_FEI Prime\WO-03\CADD\CADD Sheets\D672250-sht-gennote.dgn

FUHRMANN ENGINEERING
WWW. FUHRMANN-ENG .COM

USER NAME = ggayt	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 8/13/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES
I-172 OVER BNSF RR

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

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-6VBR	ADAMS	113	2
		CONTRACT NO. 72250		
	ILLINOIS FED. AID PROJECT			

SUMMARY OF QUANTITIES

CONSTRUCTION CODE
PPS: 6-01518-0000
90% FEDERAL
10% STATE
SN 001-0050 & 001-0051
0013
RURAL
BRIDGE

CODE NO	ITEM	UNIT	TOTAL	
20101400	NITROGEN FERTILIZER NUTRIENT	POUND	45	45
20101500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	45	45
20101600	POTASSIUM FERTILIZER NUTRIENT	POUND	45	45
20200100	EARTH EXCAVATION	CU YD	4633.0	4633.0
20400800	FURNISHED EXCAVATION	CU YD	4021.0	4021.0
21400100	GRADING AND SHAPING DITCHES	FOOT	958	958
25000210	SEEDING, CLASS 2A	ACRE	0.5	0.5
25100115	MULCH, METHOD 2	ACRE	0.5	0.5
25100630	EROSION CONTROL BLANKET	SQ YD	612	612
28000400	PERIMETER EROSION BARRIER	FOOT	181	181
28100725	STONE DUMPED RIPRAP, CLASS B3	SQ YD	4300	4300
28200200	FILTER FABRIC	SQ YD	5524	5524
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	2370	2370
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	176	176

*SPECIALTY ITEM

REV - MS

MODEL: Summary of Quantities - 1
FILE NAME: C:\Users\ggayt\Fuhrmann Engineering\Internal - Drive\Projects\FE\jobs\ 2023\23-2100_FTB206-040_D6_V-V_Ph1-2_FEI_Prime\WO-03\CADD\CADD_Sheets\D6722250-sht-SOQ.dgn

SUMMARY OF QUANTITIES

CONSTRUCTION CODE
PPS: 6-01518-0000 90% FEDERAL 10% STATE
SN 001-0050 & 001-0051
0013
RURAL
BRIDGE

CODE NO	ITEM	UNIT	TOTAL	
40604162	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70	TON	120.0	120.0
42000060	WELDED WIRE REINFORCEMENT	SQ YD	756	756
42000080	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB	SQ YD	1262	1262
44000100	PAVEMENT REMOVAL	SQ YD	1254	1254
44000157	HOT-MIX ASPHALT SURFACE REMOVAL, 2"	SQ YD	964	964
44004250	PAVED SHOULDER REMOVAL	SQ YD	4611	4611
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	124.0	124.0
48203100	HOT-MIX ASPHALT SHOULDERS	TON	471.0	471.0
50101700	REMOVAL OF EXISTING SUPERSTRUCTURES NO. 1	EACH	1	1
50101800	REMOVAL OF EXISTING SUPERSTRUCTURES NO. 2	EACH	1	1
50102400	CONCRETE REMOVAL	CU YD	88.3	88.3
50104650	SLOPE WALL REMOVAL	SQ YD	4300	4300
50105220	PIPE CULVERT REMOVAL	FOOT	673	673
50157300	PROTECTIVE SHIELD	SQ YD	781	781
50200100	STRUCTURE EXCAVATION	CU YD	847.0	847.0

*SPECIALTY ITEM

REV - MS

MODEL: Summary of Quantities - 2
FILE NAME: C:\Users\ggayt\Fuhrmann Engineering\Internal - Drive\Projects\FE\Jobs\ 2023\23-2100_PTB206-040_D6_V-V_Ph1-2_FEI_Prime\WO-03\CADD\CADD_Sheets\D672250-sht-SOQ.dgn

SUMMARY OF QUANTITIES

CONSTRUCTION CODE
PPS: 6-01518-0000 90% FEDERAL 10% STATE
SN 001-0050 & 001-0051
0013
RURAL
BRIDGE

CODE NO	ITEM	UNIT	TOTAL	
50300100	FLOOR DRAINS	EACH	32	32
50300225	CONCRETE STRUCTURES	CU YD	219.7	219.7
50300255	CONCRETE SUPERSTRUCTURE	CU YD	955.5	955.5
50300300	PROTECTIVE COAT	SQ YD	3676	3676
50500105	FURNISHING AND ERECTING STRUCTURAL STEEL	L SUM	1	1
50500505	STUD SHEAR CONNECTORS	EACH	15512	15512
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	157620	157620
50800515	BAR SPLICERS	EACH	1986	1986
51500100	NAME PLATES	EACH	2	2
52000110	PREFORMED JOINT STRIP SEAL	FOOT	294	294
52100010	ELASTOMERIC BEARING ASSEMBLY, TYPE I	EACH	42	42
52100510	ANCHOR BOLTS, 3/4"	EACH	56	56
52100520	ANCHOR BOLTS, 1"	EACH	56	56
52200020	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	259	259
52318802	DRAINAGE SYSTEM FOR STRUCTURES	L SUM	1	1
53212754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	44	44

*SPECIALTY ITEM

REV - MS

MODEL: Summary of Quantities - 3
FILE NAME: C:\Users\ggayt\Fuhrmann Engineering\Internal - Drive\Projects\FE\Jobs\ 2023\23-2100_PTB206-040_D6_V-V_Ph1-2_FEI_Prime\WO-03\CADD\CADD_Sheets\D672250-sht-SOQ.dgn

SUMMARY OF QUANTITIES

	CODE NO	ITEM	UNIT	TOTAL	CONSTRUCTION CODE PPS: 6-01518-0000 90% FEDERAL 10% STATE SN 001-0050 & 001-0051 0013 RURAL BRIDGE
	54210182	PIPE ELBOW, 12"	EACH	18	18
	54262712	METAL FLARED END SECTIONS 12"	EACH	8	8
	58600101	GRANULAR BACKFILL FOR STRUCTURES	CU YD	848.0	848.0
	59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	393	393
	60100945	PIPE DRAINS 12"	FOOT	781	781
	60146304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	451	451
	60500060	REMOVING INLETS	EACH	6	6
	60600605	CONCRETE CURB, TYPE B	FOOT	192	192
	61000050	CONCRETE THRUST BLOCKS	EACH	4	4
	61000225	TYPE F INLET BOX, STANDARD 610001	EACH	4	4
	61000335	TYPE G INLET BOX, STANDARD 610001	EACH	4	4
*	63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	1300	1300
*	63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4
*	63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4	4

*SPECIALTY ITEM

REV - MS

MODEL: Summary of Quantities - 4
FILE NAME: C:\Users\ggayt\Fuhrmann Engineering\Internal - Drive\Projects\FE\Jobs\ 2023\23-2100_PTB206-040_D6_V-V_Ph1-2_FEI_Prime\WO-03\CADD\CADD_Sheets\D672250-sht-SOQ.dgn

FUHRMANN ENGINEERING
WWW. FUHRMANN-ENG .COM

USER NAME = ggayt	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 8/13/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
I-172 OVER BNSF RR

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

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-6VBR	ADAMS	113	6
		CONTRACT NO. 72250		
	ILLINOIS	FED. AID PROJECT		

SUMMARY OF QUANTITIES

CONSTRUCTION CODE
PPS: 6-01518-0000 90% FEDERAL 10% STATE
SN 001-0050 & 001-0051
0013
RURAL
BRIDGE

CODE NO	ITEM	UNIT	TOTAL	
63200310	GUARDRAIL REMOVAL	FOOT	1572	1572
64200116	SHOULDER RUMBLE STRIPS, 16 INCH	FOOT	3580	3580
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	12	12
67100100	MOBILIZATION	L SUM	1	1
70100207	TRAFFIC CONTROL AND PROTECTION, STANDARD 701402	EACH	2	2
70100800	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	L SUM	1	1
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	14	14
70300100	SHORT TERM PAVEMENT MARKING	FOOT	494	494
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	162	162
70400100	TEMPORARY CONCRETE BARRIER	FOOT	2525	2525
70400125	PINNING TEMPORARY CONCRETE BARRIER	EACH	1416	1416
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	2525	2525
70600260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2	2
70600332	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2	2

*SPECIALTY ITEM

REV - MS

MODEL: Summary of Quantities - 5
FILE NAME: C:\Users\ggayt\Fuhrmann Engineering\Internal - Drive\Projects\FE\Jobs_2023\23-2100_PTB206-040_D6_V-V_Ph1-2_FEI_Prime\WO-03\CADD\CADD_Sheets\D672250-sht-SOQ.dgn

SUMMARY OF QUANTITIES

	CODE NO	ITEM	UNIT	TOTAL	CONSTRUCTION CODE PPS: 6-01518-0000 90% FEDERAL 10% STATE SN 001-0050 & 001-0051 0013 RURAL BRIDGE
*	72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4
*	78009006	MODIFIED URETHANE PAVEMENT MARKING - LINE 6"	FOOT	3082	3082
*	78011035	GROOVING FOR RECESSED PAVEMENT MARKING 7"	FOOT	500	500
*	78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	8	8
*	78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	28	28
	78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	8	8
	X0325748	ACRYLIC COATING	SQ YD	63	63
	X0325749	FIBER WRAP	SQ FT	1143	1143
	X2810848	RIPRAP SLURRY	SQ YD	4300	4300
	X5030250	BRIDGE DECK GROOVING (LONGITUDINAL)	SQ YD	1829	1829
	X5030353	CONCRETE WEARING SURFACE, 5 1/4"	SQ YD	416	416
	X5036002	CONCRETE HEADWALL REPAIR	EACH	3	3
	X5040100	PRECAST BRIDGE APPROACH SLAB	SQ FT	4920	4920
	X5080105	REINFORCEMENT BARS, STAINLESS STEEL	POUND	106990	106990

*SPECIALTY ITEM

REV - MS

MODEL: Summary of Quantities - 6
FILE NAME: C:\Users\ggayt\Fuhrmann Engineering\Internal - Drive\Projects\FE\Jobs\ 2023\23-2100_PTB206-040_D6_V-V_Ph1-2_FEI_Prime\WO-03\CADD\CADD_Sheets\D672250-sht-SOQ.dgn

FUHRMANN ENGINEERING
WWW. FUHRMANN-ENG .COM

USER NAME = ggayt	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 8/13/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
I-172 OVER BNSF RR

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

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-6VBR	ADAMS	113	8
		CONTRACT NO. 72250		
	ILLINOIS	FED. AID PROJECT		

SUMMARY OF QUANTITIES

	CONSTRUCTION CODE
	PPS: 6-01518-0000 90% FEDERAL 10% STATE
	SN 001-0050 & 001-0051
	0013
	RURAL
	BRIDGE

	CODE NO	ITEM	UNIT	TOTAL	
	X5080530	BAR TERMINATORS	EACH	440	440
	X7200201	WIDTH RESTRICTION SIGNING	L SUM	1	1
	Z0004552	APPROACH SLAB REMOVAL	SQ YD	539	539
	Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1
	Z0029090	DIAMOND GRINDING (BRIDGE SECTION)	SQ YD	3048	3048
	Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1
Ø	Z0076600	TRAINEES	HOUR	2500	2500
Ø	Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	2500	2500

*SPECIALTY ITEM

Ø 0042

REV - MS

MODEL: Summary of Quantities - 7
FILE NAME: C:\Users\ggayt\Fuhrmann Engineering\Internal - Drive\Projects\FE\Jobs\ 2023\23-2100_PTB206-040_D6_V-V_Ph1-2_FEI_Prime\WO-03\CADD\CADD_Sheets\D672250-sht-SOQ.dgn

FUHRMANN ENGINEERING
WWW. FUHRMANN-ENG .COM

USER NAME = ggayt	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 8/13/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
I-172 OVER BNSF RR

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

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-6VBR	ADAMS	113	9
		CONTRACT NO. 72250		
	ILLINOIS FED. AID PROJECT			

PAVEMENT SCHEDULE

LOCATION			40600290	40604162	42000060	42000080	48102100	48203100	60600605
NORTHBOUND / SOUTHBOUND	FROM STATION	TO STATION	BITUMINOUS MATERIALS (TACK COAT)	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70	WELDED WIRE REINFORCEMENT	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB	AGGREGATE WEDGE SHOULDER, TYPE B	HOT-MIX ASPHALT SHOULDERS	CONCRETE CURB, TYPE B
			POUND	TON	SQ YD	SQ YD	TON	TON	FOOT
SB	1157+04.19	1158+04.19	200	29.9				20.0	
	1157+04.19	1159+05.19					32.0		
	1158+04.19	1158+75.19			189	302			48
	1161+88.06	1163+89.06					30.0		
	1162+18.06	1162+89.06			189	329			48
	1162+89.06	1163+89.06	200	29.9				20.0	
SB SUBTOTAL			*400*	*59.8*	*378*	*631*	*62.0*	*40.0*	*96*
NB	2158+70.64	2159+70.64	200	29.9				20.0	
	2158+70.64	2160+71.64					30.0		
	2159+70.64	2160+41.64			189	329			48
	2163+54.52	2165+55.52					32.0		
	2163+84.52	2164+55.52			189	302			48
	2164+55.52	2165+55.52	200	29.9				20.0	
NB SUBTOTAL			*400*	*59.8*	*378*	*631*	*62.0*	*40.0*	*96*
TOTAL			**800**	**119.6**	**756**	**1262**	**124.0**	**80.0**	**192**

PAVEMENT REMOVAL SCHEDULE

LOCATION			40600982	44000157	44000100	44004250	Z0004552
NORTHBOUND / SOUTHBOUND	FROM STATION	TO STATION	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	HOT-MIX ASPHALT SURFACE REMOVAL, 2"	PAVEMENT REMOVAL	PAVED SHOULDER REMOVAL	APPROACH SLAB REMOVAL
			SQ YD	SQ YD	SQ YD	SQ YD	SQ YD
SB	157+04.19	157+14.19	44				
	157+04.19	158+04.19		242			
	157+04.19	158+84.90				251	
	158+04.19	159+01.91			302		
	159+01.91	159+32.12					136
	161+57.71	163+89.06				306	
	161+85.72	162+89.06			326		
	162+14.82	162+44.80					135
	162+89.06	163+89.06		242			
	163+79.06	163+89.06	44				
SB SUBTOTAL			*88*	*484*	*628*	*557*	*271*
NB	158+70.64	158+80.64	44				
	158+70.64	159+70.64		241			
	158+70.64	161+02.58				310	
	159+70.64	160+73.72			325		
	160+73.72	161+04.47					133
	163+58.31	164+55.52			301		
	163+74.53	165+55.52				256	
	163+87.49	164+18.10					135
	164+55.52	165+55.52		239			
	165+45.52	165+55.52	44				
NB SUBTOTAL			*88*	*480*	*626*	*566*	*268*
TOTAL			**176**	**964**	**1254**	**1123**	**539**

EROSION CONTROL SCHEDULE

LOCATION			25100115	28200200	28100725	25100630	28000400
NB / SB / RR	FROM STATION	TO STATION	MULCH, METHOD 2	FILTER FABRIC	STONE DUMPED RIPRAP, CLASS B3	EROSION CONTROL BLANKET	PERIMETER EROSION BARRIER
			ACRE	SQ YD	SQ YD	SQ YD	FOOT
RR	47+53.26	52+10.17	0.2				
	47+00.00	52+00.02					
NB	162+89.74	164+66.04		1224		612	181
NB/SB	SLOPE FAILURE AREA			4300	4300		
	157+65.01	165+21.70	0.3				
TOTAL			**0.5**	**5524**	**4300**	**612**	**181**

EARTHWORK SCHEDULE

LOCATION			20200100	20400800	21400100
NB / SB / RR	FROM STATION	TO STATION	EARTH EXCAVATION	FURNISHED EXCAVATION	GRADING AND SHAPING DITCHES
			CU YD	CU YD	FOOT
RR	47+53.26	52+10.17			458
	47+00.00	52+00.02			500
NB/SB	SLOPE FAILURE AREA		4633.0	4021.0	
TOTAL			**4633.0**	**4021.0**	**958**

GUARDRAIL SCHEDULE

LOCATION			63200310	63000001	63100167	63100085	72501000	78200005
NORTHBOUND / SOUTHBOUND	FROM £ STATION	TO £ STATION	GUARDRAIL REMOVAL	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	TRAFFIC BARRIER TERMINAL, TYPE 6	TERMINAL MARKER - DIRECT APPLIED	GUARDRAIL REFLECTORS, TYPE A
			FOOT	FOOT	EACH	EACH	EACH	EACH
SB	1161+67.68	1164+86.19	319					
	1161+70.37	1164+95.14		250	1	1	1	7
	1162+29.82	1167+04.82		400	1	1	1	7
	1162+36.70	1167+03.88	467					
SB SUBTOTAL			*786*	*650*	*2*	*2*	*2*	*14*
NB	2155+55.73	2160+22.69	467					
	2155+54.89	2160+29.89		250	1	1	1	7
	2157+64.34	2160+89.34		400	1	1	1	7
	2157+74.31	2161+04.47	319					
NB SUBTOTAL			*786*	*650*	*2*	*2*	*2*	*14*
TOTAL			**1572**	**1300**	**4**	**4**	**4**	**28**

SEEDING SCHEDULE

LOCATION			25000210	20101400	20101500	20101600
NORTHBOUND / SOUTHBOUND	FROM STATION	TO STATION	SEEDING, CLASS 2A	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT
			ACRE	POUND	POUND	POUND
SB	157+65.01	163+73.71	0.1	9	9	9
SB SUBTOTAL			*0.1*	*9*	*9*	*9*
NB	160+02.46	165+21.70	0.2	18	18	18
	SLOPE FAILURE AREA					
NB SUBTOTAL			*0.2*	*18*	*18*	*18*
RR	47+53.26	52+10.17	0.2	18	18	18
	47+00.00	52+00.02				
RR SUBTOTAL			*0.2*	*18*	*18*	*18*
TOTAL			**0.5**	**45**	**45**	**45**

RUMBLE STRIPS SCHEDULE

LOCATION				64200116
NORTHBOUND / SOUTHBOUND	FROM STATION	TO STATION	SIDE LT/RT	SHOULDER RUMBLE STRIPS, 16 INCH
				FOOT
SB	156+04.19	158+04.19	LT	200
	156+04.19	158+04.19	RT	200
	162+89.06	169+84.05	LT	695
	162+89.06	169+84.05	RT	695
SB SUBTOTAL				*1790*
NB	152+75.64	159+70.64	LT	695
	152+75.64	159+70.64	RT	695
	164+55.52	166+55.52	LT	200
	164+55.52	166+55.52	RT	200
NB SUBTOTAL				*1790*
TOTAL				**3580**

MODEL: Schedule of Quantities -1
FILE NAME: C:\Users\ggayt\Fuhrmann Engineering\Internal - Drive\Projects\FE\Jobs_2023\23-2100_PTB206-040_D6_V-V_Ph1-2_FEL Prime\WO-03\CADD\CADD_Sheets\D672250-sht-schedule.dgn

FUHRMANN ENGINEERING
WWW. FUHRMANN-ENG .COM

USER NAME = ggayt	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 8/13/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES
I-172 OVER BNSF RR

SCALE: | SHEET 1 OF 2 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-6VBR	ADAMS	113	10
		CONTRACT NO. 72250		
	ILLINOIS FED. AID PROJECT			

MAINTENANCE OF TRAFFIC - TEMPORARY PAVEMENT MARKING

LOCATION				70300100		70300150
				SHORT TERM PAVEMENT MARKING		SHORT TERM PAVEMENT MARKING REMOVAL
STAGE	NORTHBOUND / SOUTHBOUND	FROM STATION	TO STATION	CL FOOT	SHOULDER FOOT	SQ FT
1	SB	156+04.19	169+34.08			
		157+04.19	183+84.05			
	NB	153+25.85	165+55.52			
		138+75.64	166+55.52			
STAGE 1 SUBTOTAL				*0*	*0*	*0*
2	SB	157+04.19	163+89.06	137		45
		157+04.19	183+84.06			
		156+04.19	169+34.05			
		156+04.19	169+84.05		110	36
	NB	138+75.64	165+55.52			
		158+70.64	165+55.52	137		45
		152+75.64	166+55.52		110	36
		153+75.45	166+55.52			
STAGE 2 SUBTOTAL				*494*		*162*
TOTAL				**494**		**162**

MAINTENANCE OF TRAFFIC - STAGING SCHEDULE

LOCATION				40600290	44004250	48203100	70400100	70400125	70400200	70600260	70600332
				BITUMINOUS MATERIALS (TACK COAT)	PAVED SHOULDER REMOVAL	HOT-MIX ASPHALT SHOULDERS	TEMPORARY CONCRETE BARRIER	PINNING TEMPORARY CONCRETE BARRIER	RELOCATE TEMPORARY CONCRETE BARRIER	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3
STAGE	NORTHBOUND / SOUTHBOUND	FROM STATION	TO STATION	POUND	SQ YD	TON	FOOT	6 PINS / UNIT EACH	FOOT	EACH	EACH
PRE	SB	156+04.19	158+84.90	190	422	47.0					
		162+57.71	169+84.05	593	1317	148.0					
	NB	152+75.64	161+02.58	593	1319	148.0					
		163+74.53	166+55.52	194	430	48.0					
PRE STAGE SUBTOTAL				1570	3488	*391.0*	*0*	*0*	*0*	*0*	*0*
1	SB	157+04.19	169+59.06				1262.5			1	
		157+04.19	158+04.19					42			
		162+89.06	169+89.06					312			
	NB	153+00.64	165+55.52				1262.5			1	
		153+00.64	159+70.64					42			
		164+55.52	165+55.52					312			
STAGE 1 SUBTOTAL				*0*	*0*	*0.0*	*2525*	*708*	*0*	*2*	*0*
2	SB	157+04.19	169+59.06						1262.5		1
		157+04.19	158+04.19					42			
		162+89.06	169+89.06					312			
	NB	153+00.64	165+55.52						1262.5		1
		153+00.64	159+70.64					42			
		164+55.52	165+55.52					312			
STAGE 2 SUBTOTAL				*0*	*0*	*0.0*	*0*	*708*	*2525*	*0*	*2*
TOTAL				**1570**	**3488**	**391.0**	**2525**	**1416**	**2525**	**2**	**2**

PAVEMENT MARKING SCHEDULE

LOCATION			78300200	78009006			78011035	78100100
			RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	MODIFIED URETHANE PAVEMENT MARKING - LINE 6"			GROOVING FOR RECESSED PAVEMENT MARKING 7"	RAISED REFLECTIVE PAVEMENT MARKER
				YELLOW SOLID	WHITE SOLID	WHITE SKIP		
NORTHBOUND / SOUTHBOUND	FROM STATION	TO STATION	EACH	FOOT	FOOT	FOOT	FOOT	EACH
SB	157+04.19	163+89.06		685	685	171	50	
	157+04.19	158+04.19	2				100	2
	162+89.06	163+89.06	2				100	2
SB SUBTOTAL			*4*	*685*	*685*	*171*	*250*	*4*
NB	158+70.64	165+55.52		685	685	171	50	
	158+70.64	159+70.64	2				100	2
	164+55.52	165+55.52	2				100	2
NB SUBTOTAL			*4*	*685*	*685*	*171*	*250*	*4*
TOTAL			**8**	**3082**			**500**	**8**

DRAINAGE SCHEDULE

LOCATION				50105220	60500060	54210182	54262712	61000050	60100945	61000225	61000335	X5036002
				PIPE CULVERT REMOVAL	REMOVING INLETS	PIPE ELBOW, 12"	METAL FLARED END SECTIONS 12"	CONCRETE THRUST BLOCKS	PIPE DRAINS 12"	TYPE F INLET BOX, STANDARD 610001	TYPE G INLET BOX, STANDARD 610001	CONCRETE HEADWALL REPAIR
NORTHBOUND / SOUTHBOUND	STATION	OFFSET	LT/RT	FOOT	EACH	EACH	EACH	EACH	FOOT	EACH	EACH	EACH
SB	158+31.03	77	LT			2	1	1	145	1		
	158+56.39	76	LT	224	1							1
	158+82.60	39	LT			2	1		39		1	
	158+90.10	3	LT									
	159+06.35	40	LT		1							
	161+72.20	76	LT	196	1							1
	162+04.85	77	LT			2	1	1	74	1		
	162+40.28	40	LT		1							
	162+56.65	39	LT			3	1		137		1	
SB SUBTOTAL				*420*	*4*	*9*	*4*	*2*	*395*	*2*	*2*	*2*
NB	160+02.46	39	RT			3	1		103		1	
	160+54.29	77	RT			2	1	1	79	1		
	163+53.89	40	RT		1							
	163+77.01	39	RT			2	1		29		1	
	164+03.98	76	RT	253	1							1
	164+28.85	77	RT			2	1	1	175	1		
NB SUBTOTAL				*253*	*2*	*9*	*4*	*2*	*386*	*2*	*2*	*1*
TOTAL				**673**	**6**	**18**	**8**	**4**	**781**	**4**	**4**	**3**

MODEL: Schedule of Quantities -2
FILE NAME: C:\Users\ggayt\Fuhrmann Engineering\Internal - Drive\Projects\FE\Jobs_2023\23-2100_PTB206-040_D6_V-V_Ph1-2_FEI_Prime\WO-03\CADD\CADD_Sheets\D672250-sht-schedule.dgn

FUHRMANN ENGINEERING
WWW. FUHRMANN-ENG .COM

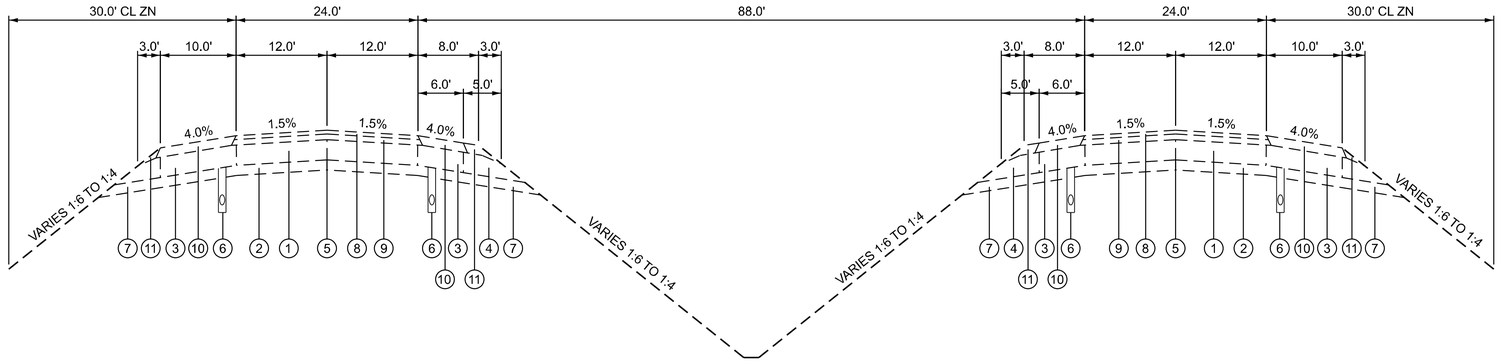
USER NAME = ggayt	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 8/13/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES
I-172 OVER BNSF RR

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

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-6VBR	ADAMS	113	11
		CONTRACT NO. 72250		
	ILLINOIS FED. AID PROJECT			



I-172 EXISTING TYPICAL SECTION

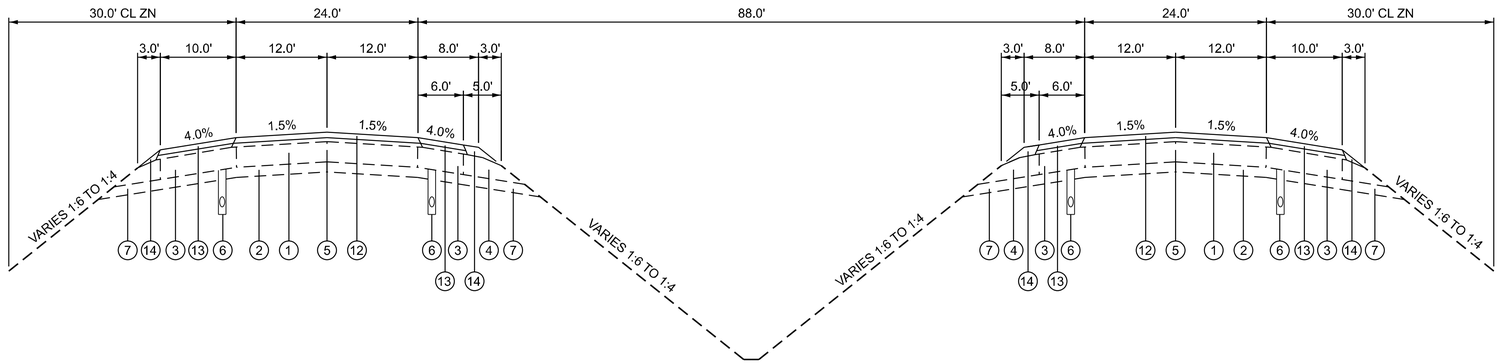
STA. 1155+00 TO STA. 1168+00 *
STA. 2155+00 TO STA. 1268+00 *

* BRIDGE OMISSION

STA. 1158+75.19 TO STA. 1162+18.06 (S.B.)
STA. 2160+41.64 TO STA. 2163+84.52 (N.B.)

LEGEND

1. EXISTING - 8" CRPCC PAVEMENT
2. EXISTING - 4" STABILIZED SUB-BASE
3. EXISTING - 8" STABILIZED SHOULDERS
4. EXISTING - AGGREGATE SHOULDER TYPE "A"
5. EXISTING - LONGITUDINAL JOINT
6. EXISTING - PIPE UNDERDRAINS
7. EXISTING - 4" SUB-BASE GRANULAR MATERIAL TYPE "C"
8. EXISTING - HOT-MIX ASPHALT SURFACE COURSE - 1 1/2"
9. EXISTING - HOT-MIX ASPHALT BINDER COURSE - 2 1/4"
10. EXISTING - HOT-MIX ASPHALT SHOULDERS - 3 3/4"
11. EXISTING - AGGREGATE SHOULDER TYPE "B"
12. PROPOSED - POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70 - 2"
13. PROPOSED - HOT-MIX ASPHALT SHOULDERS - 2"
14. PROPOSED - AGGREGATE WEDGE SHOULDER, TYPE "B"



I-172 PROPOSED TYPICAL SECTION

STA. 1158+05.19 TO STA. 1162+88.06 *
STA. 2159+71.64 TO STA. 2164+54.52 *

* BRIDGE OMISSION

STA. 1158+75.19 TO STA. 1162+18.06 (S.B.)
STA. 2160+41.64 TO STA. 2163+84.52 (N.B.)

MODEL: Typical Section
FILE NAME: C:\Users\ggayt\Fuhrmann Engineering\Internal - Drive\Projects\FEIjobs_2023\23-2100_PTB206-040_D6_V-V_Ph1-2_FEI Prime\WO-03\CADD\CADD_Sheets\D672250-sht-typical.dgn

FUHRMANN ENGINEERING
WWW. FUHRMANN-ENG .COM

USER NAME = ggayt	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 8/13/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
I-172 OVER BNSF RR

SCALE: 1" =10' | SHEET 1 OF 1 SHEETS | STA. | TO STA.

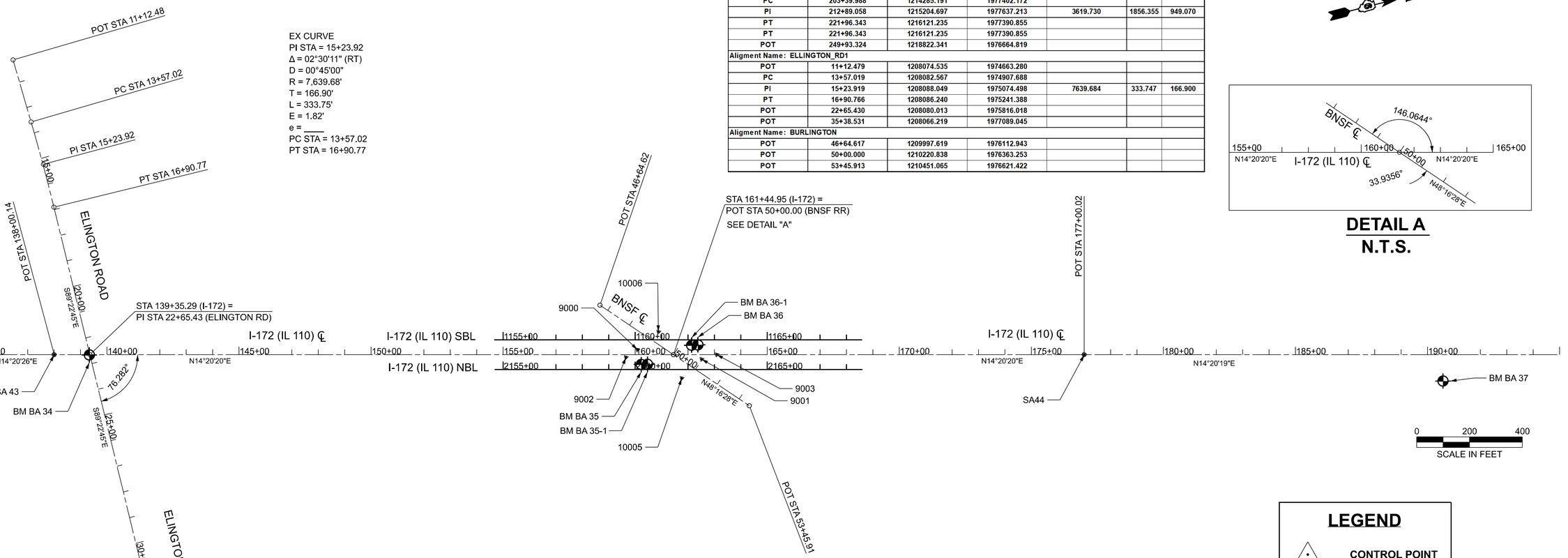
F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-6VBR	ADAMS	113	12
		CONTRACT NO. 72250		
	ILLINOIS FED. AID PROJECT			

D672250 Horizontal Control NAD83/2007 adj State Plane IL West Zone						
POINT	NORTHING	EASTING	STATION	OFFSET	DESCRIPTION	ALIGNMENT
SA42	1205488.975	1975153.627	112+60.93	0.00	PERMANENT SURVEY MARKER IN CONC	172_C
SA43	1207949.067	1975782.546	138+00.14	0.00	PERMANENT SURVEY MARKER IN CONC	172_C
9002	1210044.092	1976328.314	159+65.06	9.92 Rt	#5 REBAR W/ CAP	172_C
9003	1210379.827	1976403.735	163+09.01	0.15 Lt	#5 REBAR W/ CAP	172_C
SA44	1211727.466	1976748.375	177+00.02	0.00	PERMANENT SURVEY MARKER IN CONC	172_C
SA45	1214285.142	1977402.156	203+39.94	0.00	PERMANENT SURVEY MARKER IN CONC	172_C

D672250 ALIGNMENT CONTROL

NAD83/2007 ADJ - STATE PLANE WEST ZONE

Point Type	Station	Northing	Easting	Radius	Length	Tangent
Aligment Name: I172-C						
POT	0+00.000	1194917.409	1971605.239			
PC	9+08.916	1195825.685	1971571.131			
PI	17+14.977	1196631.178	1971540.884	3618.861	1586.228	806.061
PT	24+95.144	1197373.362	1971855.364			
POT	49+24.765	1199610.445	1972803.266			
POT	69+99.879	1201521.061	1973612.985			
PC	95+36.219	1203856.400	1974602.536			
PI	104+00.199	1204651.911	1974939.618	11459.651	1724.697	863.980
PT	112+60.916	1205488.969	1975153.614			
POT	138+00.136	1207949.067	1975782.546			
POT	177+00.024	1211727.466	1976748.375			
PC	203+39.988	1214285.191	1977402.172			
PI	212+89.058	1215204.697	1977637.213	3619.730	1856.355	949.070
PT	221+96.343	1216121.235	1977390.855			
PT	221+96.343	1216121.235	1977390.855			
POT	249+93.324	1218822.341	1976664.819			
Aligment Name: ELLINGTON_RD1						
POT	11+12.479	1208074.535	1974663.280			
PC	13+57.019	1208082.567	1974907.688			
PI	15+23.919	1208088.049	1975074.498	7639.684	333.747	166.900
PT	16+90.766	1208086.240	1975241.388			
POT	22+65.430	1208080.013	1975816.018			
POT	35+38.531	1208066.219	1977089.045			
Aligment Name: BURLINGTON						
POT	46+64.617	1209997.619	1976112.943			
POT	50+00.000	1210220.838	1976363.253			
POT	53+45.913	1210451.065	1976621.422			



DETAIL A
N.T.S.

D672250 Vertical Control

Benchmark	Station	Offset	Alignment	NAVD88 Elevation	Description
SA42	112+60.92	0.00	172_C	696.225	PSM PT Centerline Control Disk in Conc in CL 172 Median
BA-33	122+00.31	102.30 Rt	172_C	703.206	Chsld [] top 24" Conc Flared End Section E side NBL I-172 approx 0.4 mile S of Ellington Rd Overpass
SA43	138+00.14	0.00	172_C	716.073	PSM PI Centerline Control Disk in Conc in CL 172 Median
BA-34	139+33.37	1.06 Rt	172_C	719.949	Chsld [] Top Center Base Pier forBridge SN# 001-0049 at Ellington Rd
BA-35	160+22.97	36.92 Rt	172_C	760.434	Chsld [] SW Corner SW Approach Wall to NBL Bridge SN# 001-0051 over Railroad
BA-35-1	160+46.36	36.16 Rt	172_C	752.901	Cut [] NW Corner of SW Beam Seat to NBL Bridge SN# 001-0051 over Railroad
BA-36-1	162+13.77	35.78 Lt	172_C	752.524	Cut [] NE Corner of NE Beam Seat to NBL Bridge SN# 001-0050 over Railroad
BA-36	162+37.20	36.95 Lt	172_C	760.327	Chsld [] NE Corner NE Approach Wall to SBL Bridge SN# 001-0050 over Railroad
SA44	177+00.02	0.00	172_C	726.368	PSM POT Centerline Control Disk in Conc in CL 172 Median
BA-37	190+58.45	99.78 Rt	172_C	708.298	Chsld [] N End Hdwl 36" Pipe Culv E side NBL I-172 & Approx 300ft N of Mile Marker 18
SA45	203+39.99	0.00	172_C	697.229	PSM PC Centerline Control Disk in Conc in CL 172 Median

LEGEND

CONTROL POINT

BENCHMARK

NOTE: BASIS OF BEARINGS IS ILLINOIS STATE PLANE COORDINATE SYSTEM - WEST ZONE (NAD 83).

MODEL: I-172 Alignment Plan - I-172 Alignment Plan [Sheet]
FILE NAME: C:\Users\ggayt\Fuhrmann Engineering\Internal - Drive\Projects\FE\Jobs_2023\23-2100_PTB206-040_D6_V+V_Ph1-2_FEL_Prime\WO-03\CADD\CADD_Sheets\D672250-sht-allignment.dgn

FUHRMANN ENGINEERING
WWW. FUHRMANN-ENG .COM

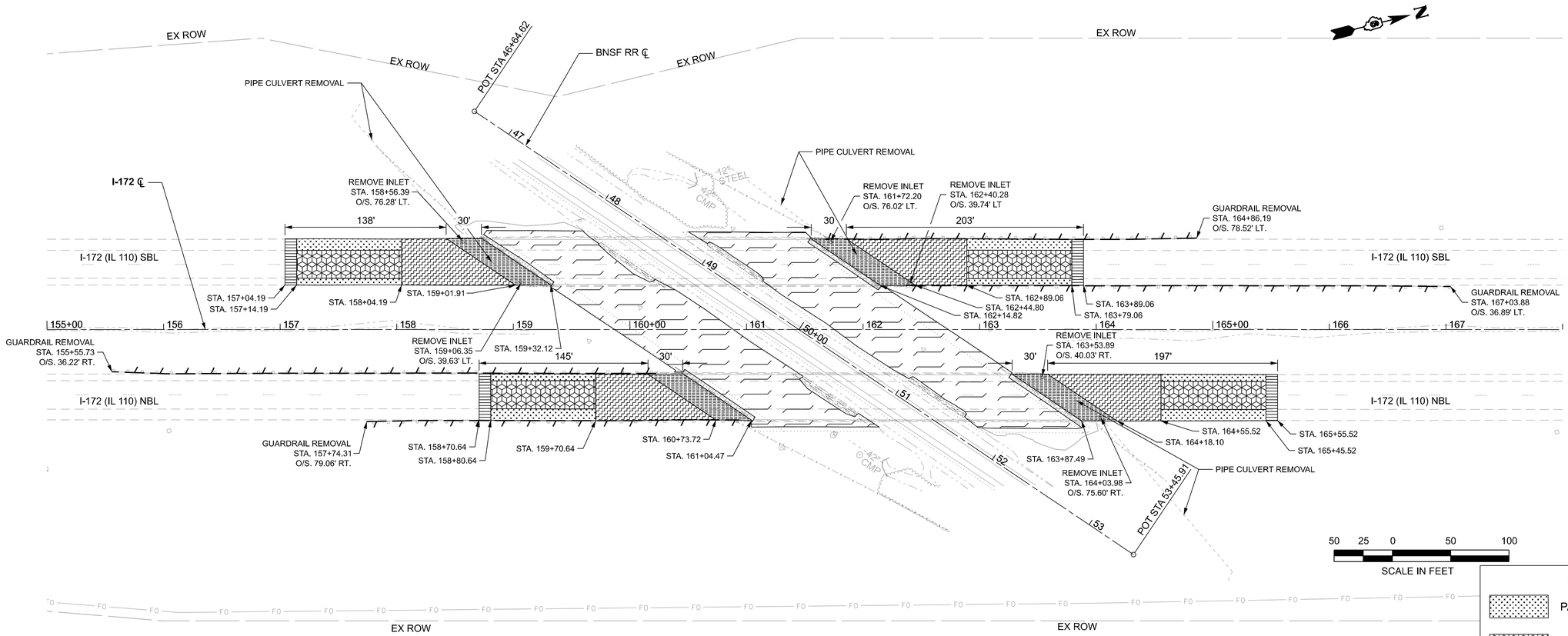
USER NAME = ggayt	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 8/13/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALIGNMENT, & BENCHMARKS
I-172 OVER BNSF RR

SCALE: 1"=200' | SHEET 1 OF 1 SHEETS | STA. 135+00.00 | TO STA. 195+00.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-6VBR	ADAMS	113	13
		CONTRACT NO. 72250		
		ILLINOIS	FED. AID PROJECT	



LEGEND

- PAVED SHOULDER REMOVAL
- HMA SURFACE REMOVAL, 2"
- APPROACH SLAB REMOVAL
- PAVEMENT REMOVAL
- SLOPE WALL REMOVAL
- GUARDRAIL REMOVAL
- HMA REMOVAL - BUTT JOINT

NOTE: SEE STRUCTURAL PLANS FOR DETAILS OF SLOPE WALL REMOVAL.

MODEL: I172-Plan - I-172 Removal Plan [Sheet]
FILE NAME: C:\Users\ggayt\Fuhrmann Engineering\Internal - Drive\Projects\FE\Jobs_2023\23-2100_FTB206-040_D6_V-V_Ph1-2_FEL Prime\WO-03\CADD\CADD_Sheets\D672250-sht-removal.dgn

FUHRMANN ENGINEERING
WWW. FUHRMANN-ENG .COM

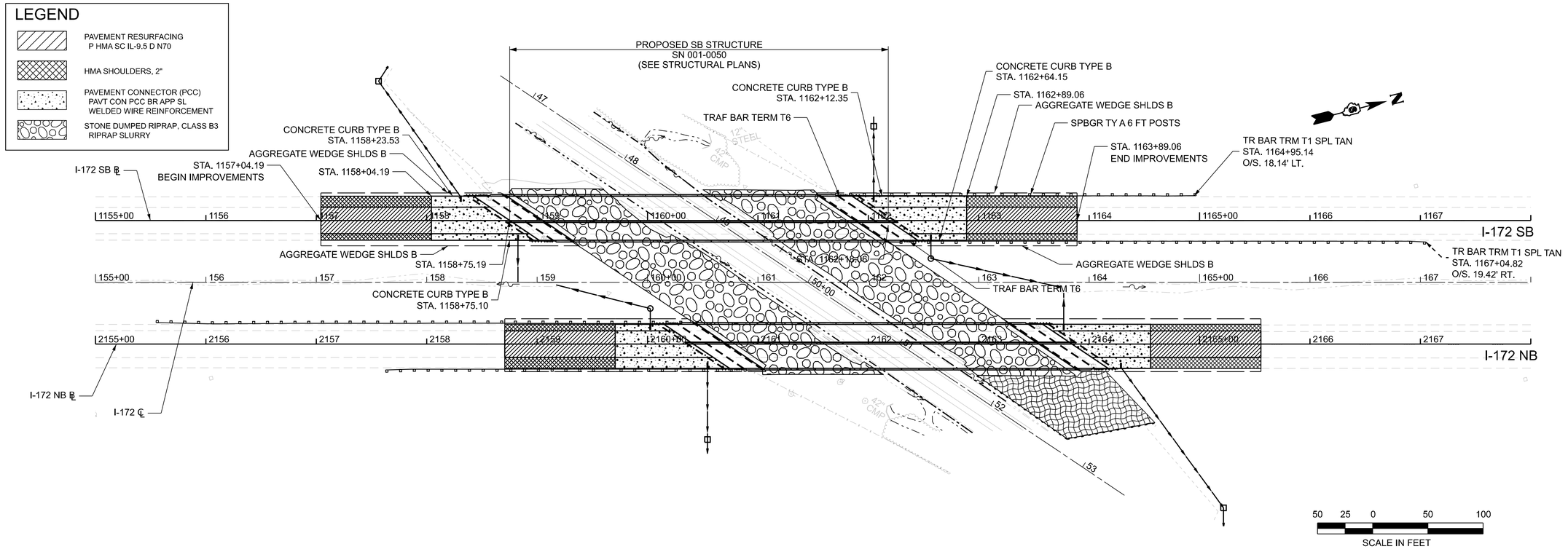
USER NAME = ggayt	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 8/13/2026	DATE -	REVISED -

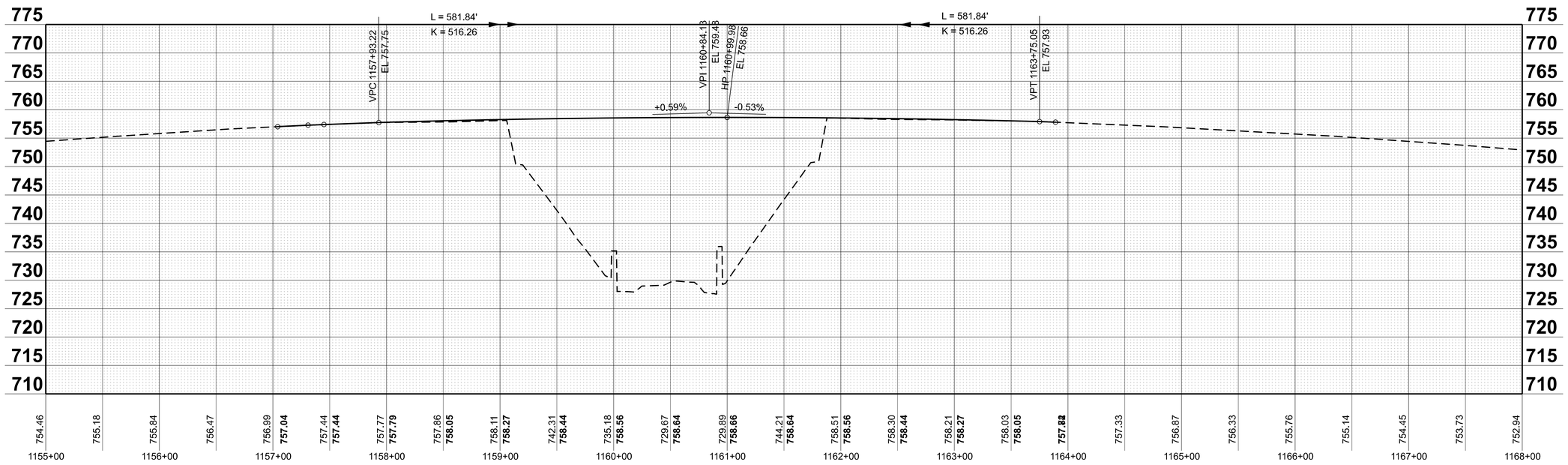
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVAL PLAN
I-172 OVER BNSF RR

SCALE: 1"=50' | SHEET 1 OF 1 SHEETS | STA. 155+00.00 TO STA. 168+00.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-6VBR	ADAMS	113	14
		CONTRACT NO. 72250		
	ILLINOIS FED. AID PROJECT			





MODEL: I-172 SB Plan - I-172 SB Plan [Sheet]
FILE NAME: C:\Users\ggayt\Fuhrmann Engineering\Internal - Drive\Projects\FE\Jobs_2023\23-2100_FTB206-040_D6_V-V_Ph1-2_FEL_Prime\WO-03\CADD\CADD_Sheets\D672250-sht-plnprf.dgn

FUHRMANN ENGINEERING
WWW. FUHRMANN-ENG .COM

USER NAME = ggayt	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 8/13/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

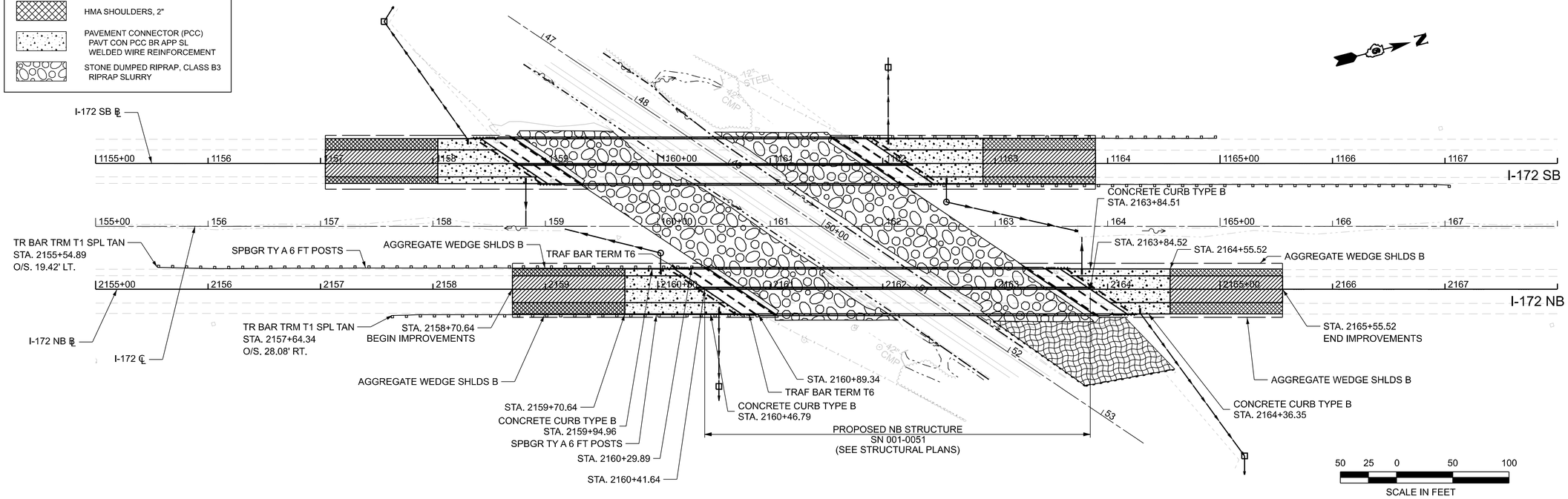
ROADWAY PLAN & PROFILE
I-172 SB

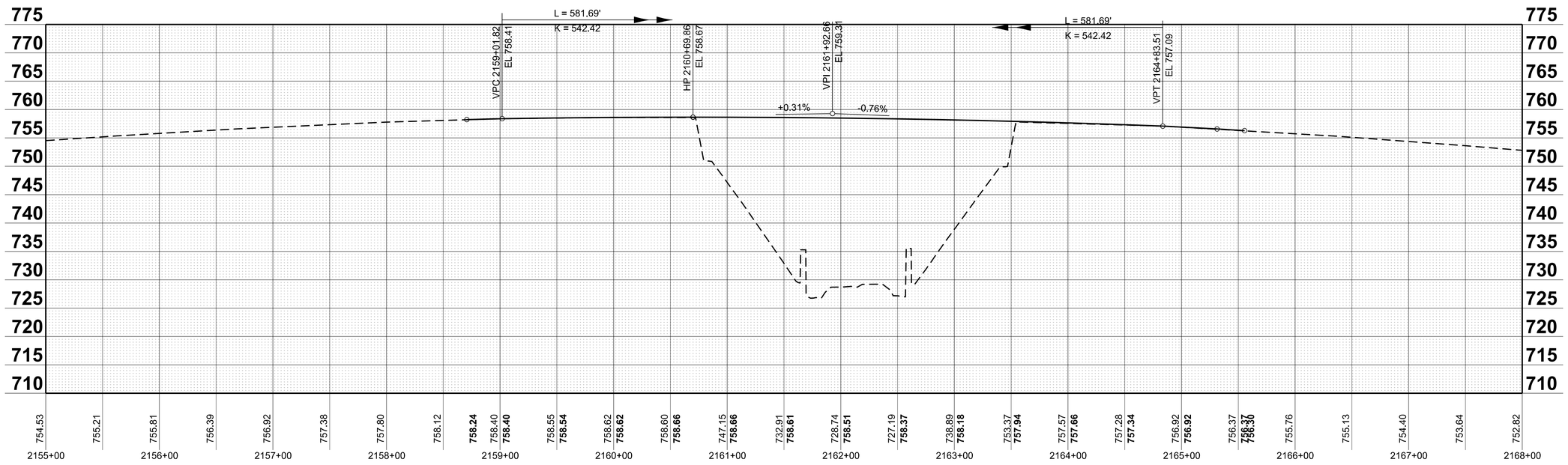
SCALE: 1"=50' | SHEET 1 OF 2 SHEETS | STA. 1155+00.00 | TO STA. 1168+00.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-6VBR	ADAMS	113	15
		CONTRACT NO. 72250		
	ILLINOIS	FED. AID PROJECT		

LEGEND

- PAVEMENT RESURFACING
  P HMA SC IL-9.5 D N70
- HMA SHOULDERS, 2"
- PAVEMENT CONNECTOR (PCC)
  PAVT CON PCC BR APP SL
  WELDED WIRE REINFORCEMENT
- STONE DUMPED RIPRAP, CLASS B3
  RIPRAP SLURRY





MODEL: I-172 NB Plan - I-172 NB Plan [Sheet]
FILE NAME: C:\Users\ggayt\Fuhrmann Engineering\Internal - Drive\Projects\FE\Jobs_2023\23-2100_FTB206-040_D6_V-V_Ph1-2_FEL_PrimeWO-03\CADD\CADD_Sheets\D672250-sht-plnprf.dgn

FUHRMANN ENGINEERING
WWW. FUHRMANN-ENG .COM

USER NAME = ggayt	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 8/13/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PLAN & PROFILE
I-172 NB

SCALE: 1"=50' | SHEET 2 OF 2 SHEETS | STA. 2155+00.00 | TO STA. 2168+00.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-6VBR	ADAMS	113	16
		CONTRACT NO. 72250		
	ILLINOIS	FED. AID PROJECT		

STAGING SEQUENCE

PRE-STAGE

MAINTENANCE OF TRAFFIC

MILL AND OVERLAY EXISTING HMA SHOULDERS ON MEDIAN AND OUTSIDE SHOULDERS WITH 2 INCHES OF HMA. MATCH EXISTING SHOULDER SURFACE ELEVATION.

WORK ZONE SPEED LIMIT = 55 MPH

CONSTRUCTION TO BE COMPLETED IN STAGE

WORK DURING THIS STAGE WILL INCLUDE ALL WORK THAT IS REQUIRED TO PREPARE FOR TRAFFIC IN STAGE 1, INCLUDING BUT NOT LIMITED TO, TEMPORARY PAVEMENT MARKING PLACEMENT, PLACING AND PINNING TEMPORARY CONCRETE BARRIER.

STAGE 1

MAINTENANCE OF TRAFFIC

INSTALL TEMPORARY CONCRETE BARRIER WALL AND TRAFFIC CONTROL DEVICES ACCORDING TO THE MAINTENANCE OF TRAFFIC PLAN FOR STAGE 1.

CLOSE INSIDE NORTHBOUND & SOUTHBOUND LANE AND SHIFT TRAFFIC ONTO THE EXISTING OUTSIDE NB & SB LANE BY USE OF TEMPORARY PAVEMENT MARKINGS AT EITHER END OF THE PROJECT AND ACCORDING TO THE SUGGESTED MAINTENANCE OF TRAFFIC PLAN.

WORK ZONE SPEED LIMIT = 55 MPH

CONSTRUCTION TO BE COMPLETED IN STAGE

RECONSTRUCT THE INSIDE NB & SB BRIDGE, APPROACH SLAB, AND PAVEMENT CONNECTOR. REMOVE HMA SURFACE, RESURFACE INSIDE NB & SB LANES AND SHOULDERS.

CONSTRUCT THE PROPOSED STORM SEWER AND DRAINAGE ITEMS WITHIN THE AVAILABLE WORK ZONE AND PROVIDE TEMPORARY CONNECTIONS TO THE EXISTING FACILITIES (UPSTREAM) TO MAINTAIN DRAINAGE, IF NECESSARY.

REPLACE GUARDRAIL ON STAGE 1 PRIOR TO OPENING STAGE 2 TRAFFIC.

STAGE 2

MAINTENANCE OF TRAFFIC

RESTORE LANE OF TRAFFIC TO THE NEWLY BUILT NB AND SB PAVEMENT OF I-172. SHIFT TRAFFIC TO THE INSIDE LANES OF I-172 BY USE OF TEMPORARY PAVEMENT MARKINGS AT EITHER END OF THE PROJECT AND ACCORDING TO THE SUGGESTED MAINTENANCE OF TRAFFIC PLAN.

INSTALL TEMPORARY CONCRETE BARRIER WALL AND TRAFFIC CONTROL DEVICES ACCORDING TO THE MAINTENANCE OF TRAFFIC PLAN FOR STAGE 2.

WORK ZONE SPEED LIMIT = 55 MPH

CONSTRUCTION TO BE COMPLETED IN STAGE

RECONSTRUCT THE OUTSIDE NB & SB BRIDGE, APPROACH SLAB, AND PAVEMENT CONNECTOR. REMOVE HMA SURFACE, RESURFACE INSIDE NB & SB LANES AND SHOULDERS.

CONSTRUCT THE PROPOSED STORM SEWER AND DRAINAGE ITEMS WITHIN THE AVAILABLE WORK ZONE AND PROVIDE TEMPORARY CONNECTIONS TO THE EXISTING FACILITIES (UPSTREAM) TO MAINTAIN DRAINAGE, IF NECESSARY.

REPLACE GUARDRAIL ON STAGE 2 PRIOR TO OPENING TRAFFIC.

REMOVE STANDARD 701402 AND INSTALL SHORT TERM PAVEMENT MARKINGS.

PAVEMENT MARKINGS AND RUMBLE STRIPS TO BE COMPLETED UTILIZING STANDARD 701426.

NOTE: ALL ITEMS SHOWN ON THE TRAFFIC CONTROL PLAN SHEETS WHICH ARE NOT SHOWN AS PAID SEPARATELY SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION STANDARD 701402.

LEGEND

① TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE IV TAPE (SOLID YELLOW)

② TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE IV TAPE (SOLID WHITE)

2" MILL OVERLAY ON SHOULDERS

DIRECTION OF TRAFFIC

SIGN

TEMP. CONC. BARRIER

WORK AREA

MONODIRECTIONAL GUARDRAIL/ BARRIER WALL REFLECTOR

DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT

TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT

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

MODEL: I-172-General Notes [Sheet]
FILE NAME: C:\Users\ggayt\Fuhrmann Engineering\Internal - Drive\Projects\FE\Jobs_2023\23-2100_PTB206-040_D6_V-V_Ph1-2_FEI_Prime\WO-03\CADD\CADD_Sheets\D672250-sht-staging.dgn

FUHRMANN ENGINEERING
WWW. FUHRMANN-ENG .COM

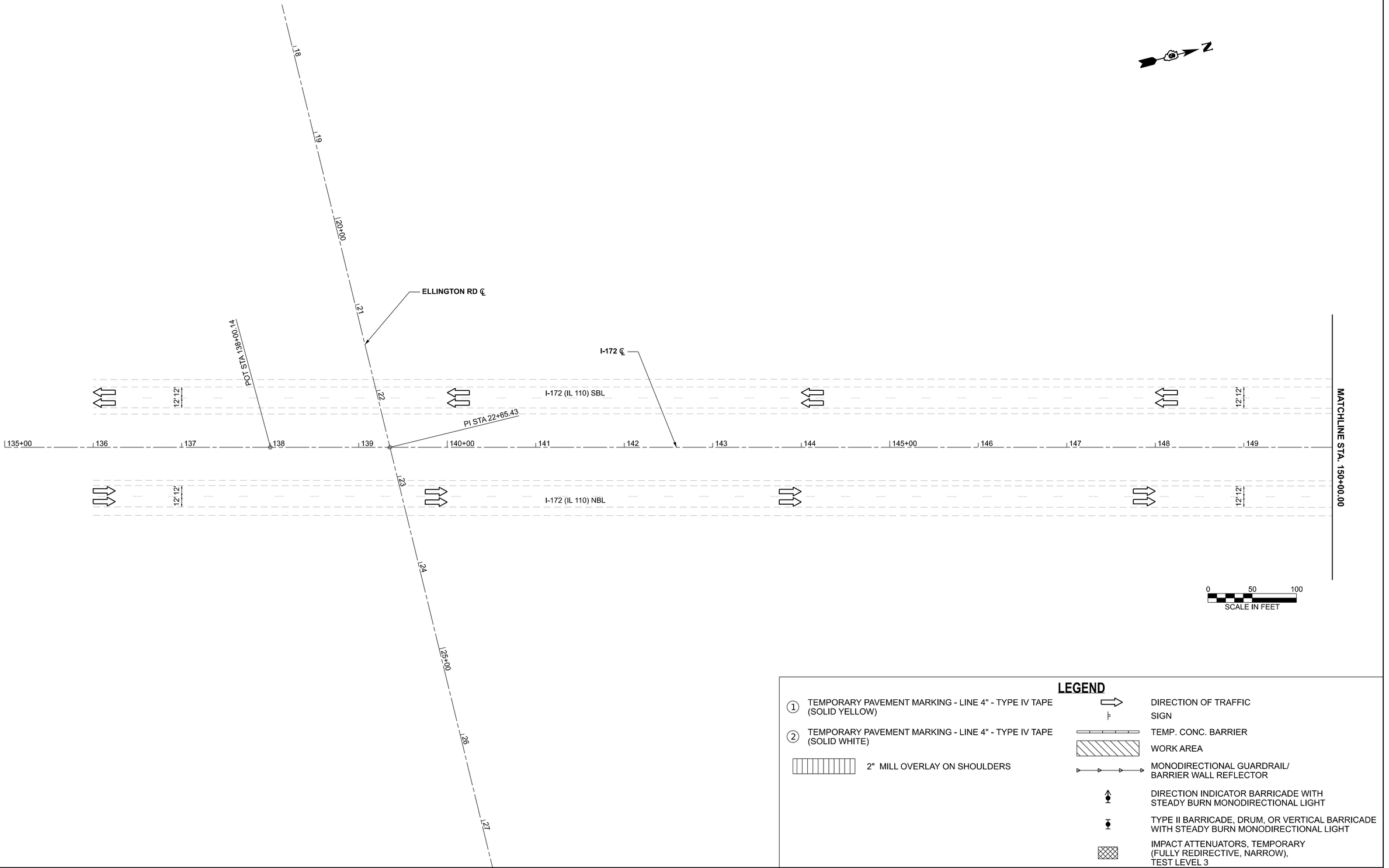
USER NAME = ggayt	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 8/13/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN
GENERAL NOTES

SCALE: | SHEET 1 OF 13 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-6VBR	ADAMS	113	17
		CONTRACT NO. 72250		
	ILLINOIS	FED. AID PROJECT		



LEGEND

1. TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE IV TAPE (SOLID YELLOW)
2. TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE IV TAPE (SOLID WHITE)

2" MILL OVERLAY ON SHOULDERS

- DIRECTION OF TRAFFIC
- SIGN
- TEMP. CONC. BARRIER
- WORK AREA
- MONODIRECTIONAL GUARDRAIL/ BARRIER WALL REFLECTOR
- DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3

MODEL: I-172-Pre-Stage - I-172-Plan-1 [Sheet]
FILE NAME: C:\Users\ggayt\Fuhrmann Engineering\Internal - Drive\Projects\FE\Jobs_2023\23-2100_FTB206-040_D6_V-V_Ph1-2_FEL Prime\WO-03\CADD\CADD_Sheets\D6722250-sht-staging.dgn

FUHRMANN ENGINEERING
WWW. FUHRMANN-ENG .COM

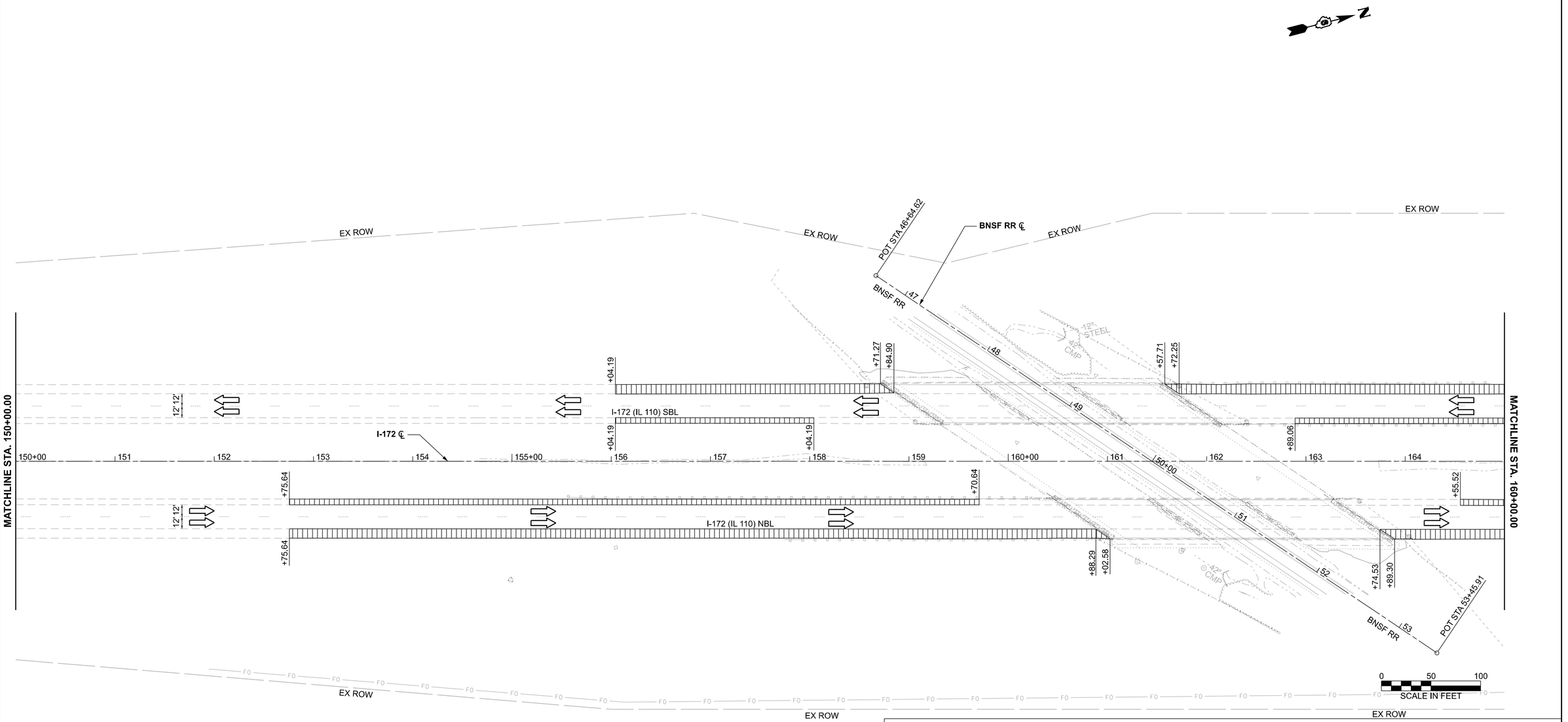
USER NAME = ggayt	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 8/13/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN
PRE-STAGE

SCALE: 1"=50' | SHEET 2 OF 13 SHEETS | STA. 135+00.00 | TO STA. 150+00.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-6VBR	ADAMS	113	18
		CONTRACT NO. 72250		
	ILLINOIS	FED. AID PROJECT		



LEGEND

① TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE IV TAPE (SOLID YELLOW)	DIRECTION OF TRAFFIC
	SIGN
② TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE IV TAPE (SOLID WHITE)	TEMP. CONC. BARRIER
	WORK AREA
2" MILL OVERLAY ON SHOULDERS	MONODIRECTIONAL GUARDRAIL/ BARRIER WALL REFLECTOR
	DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
	TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3

MODEL: I-172-Pre-Stage - I-172-Plan-2 [Sheet]
FILE NAME: C:\Users\ggayt\Fuhrmann Engineering\Internal - Drive\Projects\FE\jobs_2023\23-2100_PTB205-040_D6_V-V_Ph1-2_FEI_Prime\WO-03\CADD\CADD_Sheets\D672250-sht-staging.dgn

FUHRMANN ENGINEERING
WWW. FUHRMANN-ENG .COM

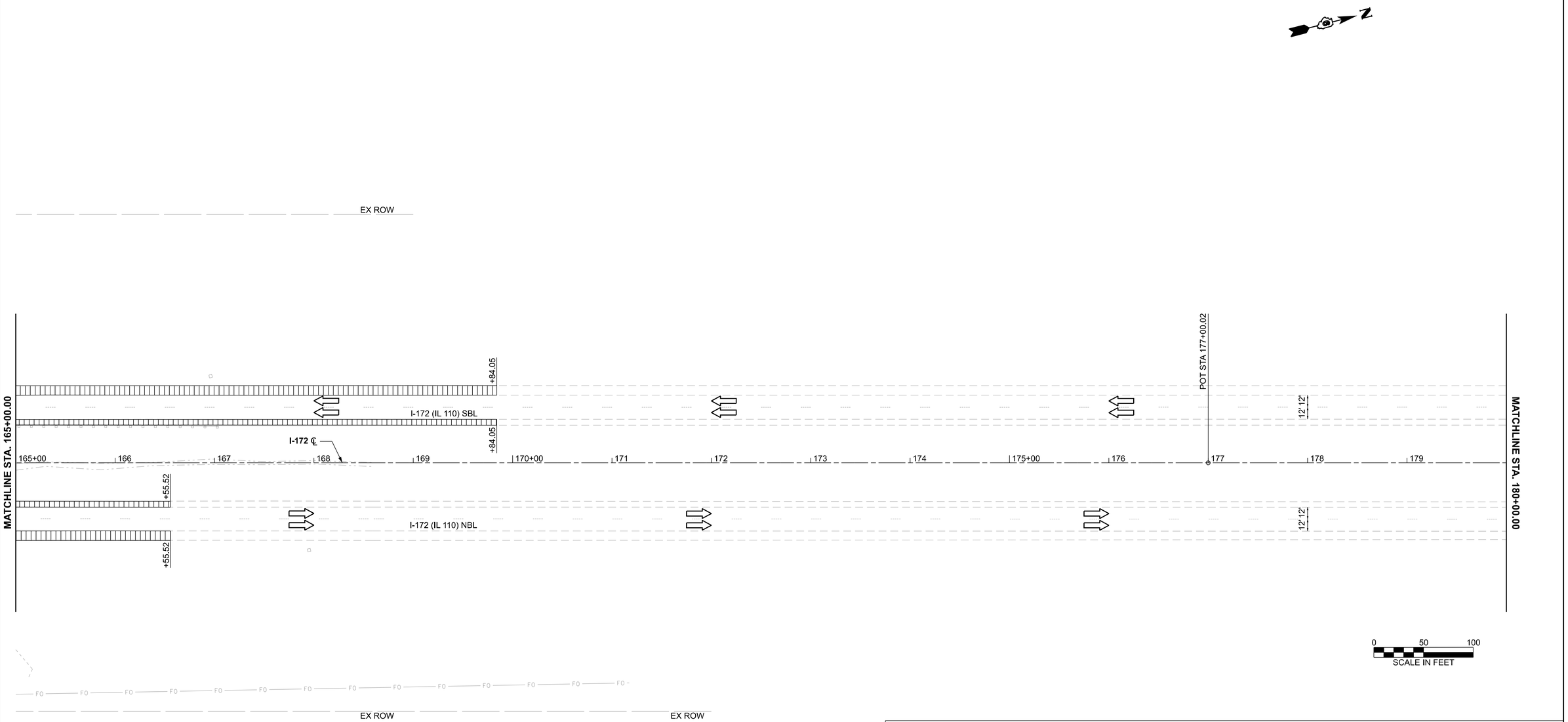
USER NAME = ggayt	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 8/13/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN
PRE-STAGE

SCALE: 1"=50' | SHEET 3 OF 13 SHEETS | STA. 150+00.00 | TO STA. 165+00.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-6VBR	ADAMS	113	19
		CONTRACT NO. 72250		
	ILLINOIS FED. AID PROJECT			



LEGEND

1. TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE IV TAPE (SOLID YELLOW)
2. TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE IV TAPE (SOLID WHITE)

2" MILL OVERLAY ON SHOULDERS

- DIRECTION OF TRAFFIC
- SIGN
- TEMP. CONC. BARRIER
- WORK AREA
- MONODIRECTIONAL GUARDRAIL/ BARRIER WALL REFLECTOR
- DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3

MODEL: I-172-Pre-Stage - I-172-Plan-3 [Sheet]
FILE NAME: C:\Users\ggayt\Fuhrmann Engineering\Internal - Drive\Projects\FE\Jobs_2023\23-2100_PTB206-040_D6_V-V_Ph1-2_FEI Prime\WO-03\CADD\CADD_Sheets\D672250-sht-staging.dgn

FUHRMANN ENGINEERING
WWW. FUHRMANN-ENG .COM

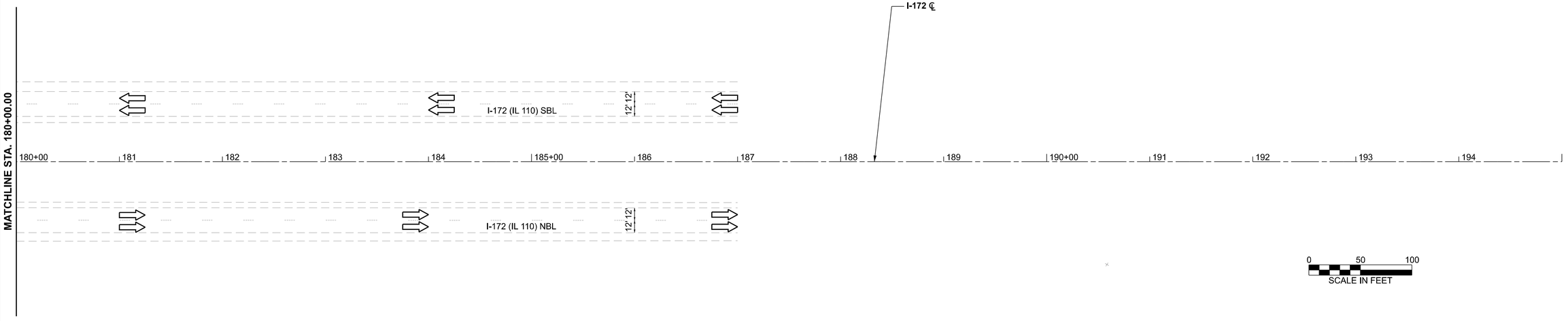
USER NAME = ggayt	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 8/13/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN
PRE-STAGE

SCALE: 1"=50' | SHEET 4 OF 13 SHEETS | STA. 165+00.00 | TO STA. 180+00.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-6VBR	ADAMS	113	20
		CONTRACT NO. 72250		
		ILLINOIS	FED. AID PROJECT	



LEGEND

1. TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE IV TAPE (SOLID YELLOW)
2. TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE IV TAPE (SOLID WHITE)

2" MILL OVERLAY ON SHOULDERS

DIRECTION OF TRAFFIC

SIGN

TEMP. CONC. BARRIER

WORK AREA

MONODIRECTIONAL GUARDRAIL/ BARRIER WALL REFLECTOR

DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT

TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT

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

MODEL: I-172-Pre-Stage - I-172-Plan-4 [Sheet]
FILE NAME: C:\Users\ggayt\Fuhrmann Engineering\Internal - Drive\Projects\FE\Jobs_2023\23-2100_PTB206-040_D6_V-V_Ph1-2_FEI_Prime\WO-03\CADD\CADD_Sheets\D672250-sht-staging.dgn

FUHRMANN ENGINEERING
WWW. FUHRMANN-ENG .COM

USER NAME = ggayt	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 8/13/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

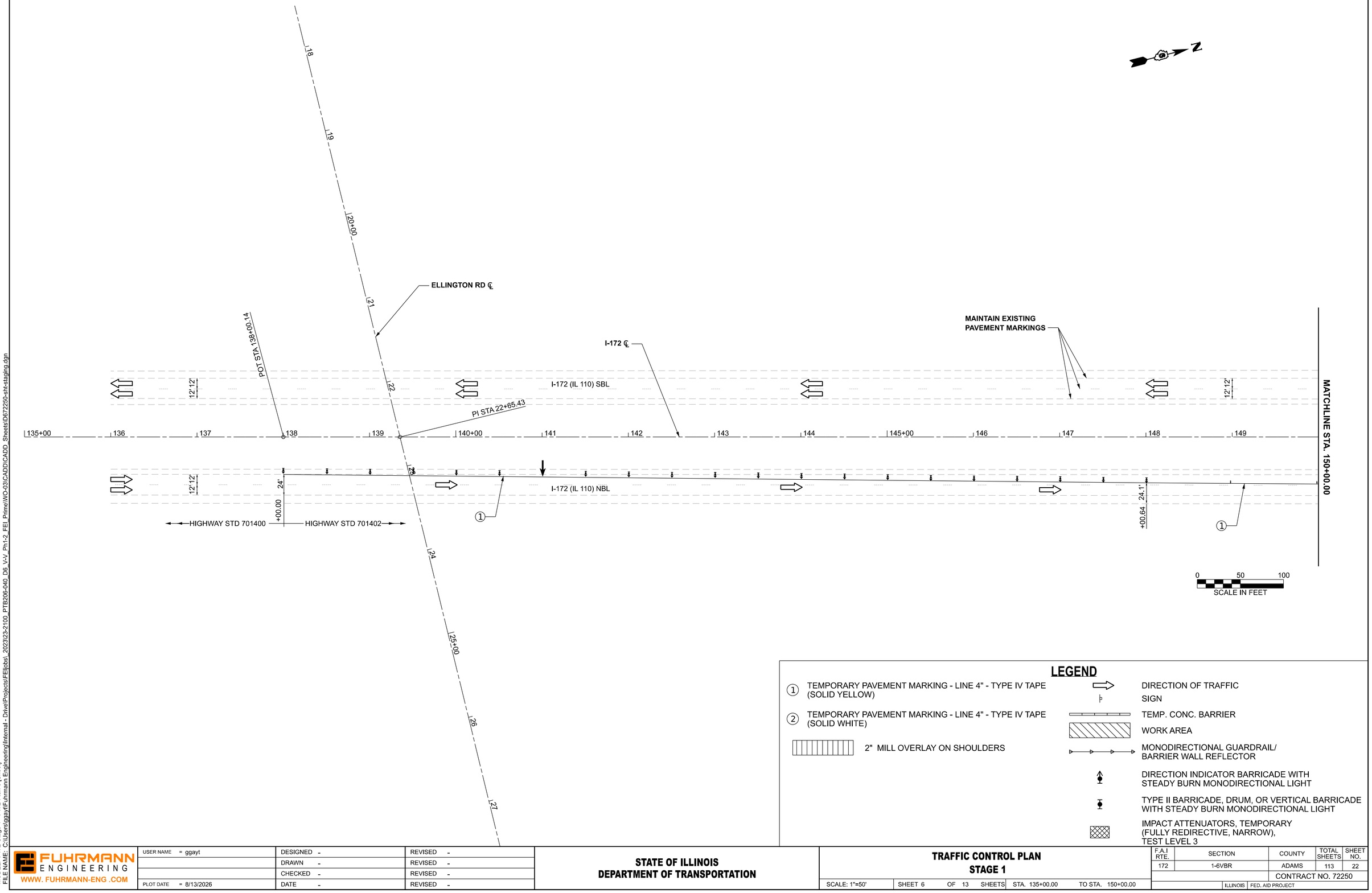
TRAFFIC CONTROL PLAN
PRE-STAGE

SCALE: 1"=50' | SHEET 5 OF 13 SHEETS | STA. 180+00.00 | TO STA. 195+00.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-6VBR	ADAMS	113	21

CONTRACT NO. 72250

ILLINOIS | FED. AID PROJECT



LEGEND

① TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE IV TAPE (SOLID YELLOW)

② TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE IV TAPE (SOLID WHITE)

2" MILL OVERLAY ON SHOULDERS

DIRECTION OF TRAFFIC

SIGN

TEMP. CONC. BARRIER

WORK AREA

MONODIRECTIONAL GUARDRAIL/ BARRIER WALL REFLECTOR

DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT

TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT

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

MODEL: I-172-Stage 1 - I-172-Plan 5 [Sheet]
FILE NAME: C:\Users\ggayt\Fuhrmann Engineering\Internal - Drive\Projects\FE\Jobs_2023\23-2100_FTB206-040_D6_V-V_Ph1-2_FEL Prime\WO-03\CADD\CADD_Sheets\D6722250-sht-staging.dgn

FUHRMANN ENGINEERING
WWW. FUHRMANN-ENG .COM

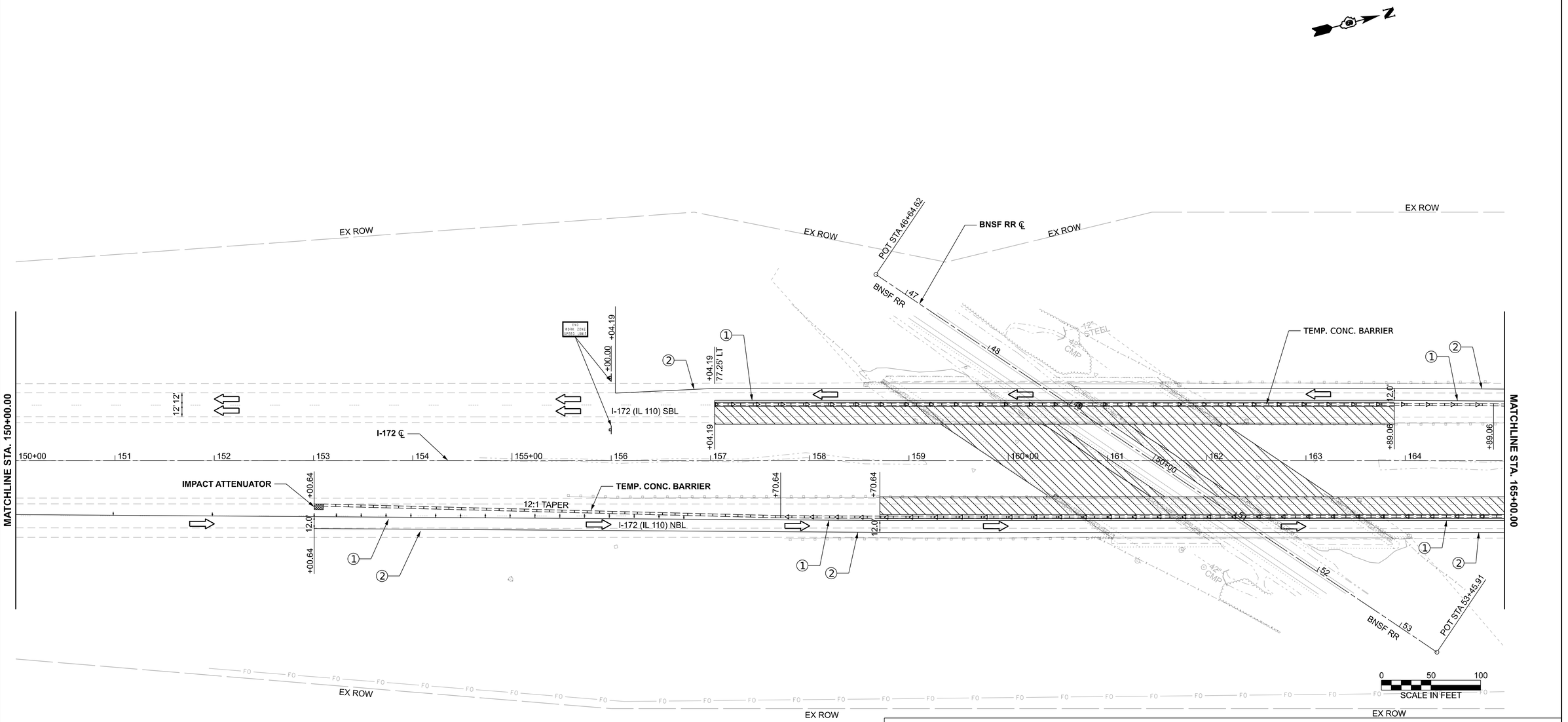
USER NAME = ggayt	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 8/13/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN
STAGE 1

SCALE: 1"=50' | SHEET 6 OF 13 SHEETS | STA. 135+00.00 | TO STA. 150+00.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-6VBR	ADAMS	113	22
		CONTRACT NO. 72250		
	ILLINOIS	FED. AID PROJECT		



LEGEND

① TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE IV TAPE (SOLID YELLOW)	DIRECTION OF TRAFFIC
② TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE IV TAPE (SOLID WHITE)	SIGN
2" MILL OVERLAY ON SHOULDERS	TEMP. CONC. BARRIER
	WORK AREA
	MONODIRECTIONAL GUARDRAIL/ BARRIER WALL REFLECTOR
	DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
	TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3

FUHRMANN ENGINEERING
WWW. FUHRMANN-ENG .COM

USER NAME = ggayt	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 8/13/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN
STAGE 1

SCALE: 1"=50' | SHEET 7 OF 13 SHEETS | STA. 150+00.00 | TO STA. 165+00.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-6VBR	ADAMS	113	23
		CONTRACT NO. 72250		
	ILLINOIS	FED. AID PROJECT		

MODEL: I-172-Stage 1 - I-172-Plan 6 [Sheet]
FILE NAME: C:\Users\ggayt\Fuhrmann Engineering\Internal - Drive\Projects\FE\Jobs_2023\23-2100_PTB206-040_D6_V-V_Ph1-2_FEI_Prime\WO-03\CADD\CADD_Sheets\D672250-sht-staging.dgn

EX ROW

MATCHLINE STA. 165+00.00

12:1 TAPER

+59.06

12.0'

I-172 (IL 110) SBL

I-172 ℄

+59.06

+59.06

22.0'

POT STA 177+00.02

MATCHLINE STA. 180+00.00

165+00 | 166 | 167 | 168 | 169 | 170+00 | 171 | 172 | 173 | 174 | 175+00 | 176 | 177 | 178 | 179

+55.52

+55.52
77.25' RT

+55.52

+75.00

I-172 (IL 110) NBL

MAINTAIN EXISTING
PAVEMENT MARKINGS

12'

12'

0 50 100
SCALE IN FEET

FO FO FO FO FO FO FO FO FO FO FO FO FO

EX ROW

EX ROW

LEGEND

① TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE IV TAPE (SOLID YELLOW)

② TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE IV TAPE (SOLID WHITE)

2" MILL OVERLAY ON SHOULDERS

DIRECTION OF TRAFFIC

SIGN

TEMP. CONC. BARRIER

WORK AREA

MONODIRECTIONAL GUARDRAIL/
BARRIER WALL REFLECTOR

DIRECTION INDICATOR BARRICADE WITH
STEADY BURN MONODIRECTIONAL LIGHT

TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE
WITH STEADY BURN MONODIRECTIONAL LIGHT

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

MODEL: I-172-Stage 1 - I-172-Plan 7 [Sheet]
FILE NAME: C:\Users\ggayt\Fuhrmann Engineering\Internal - Drive\Projects\FE\Jobs_2023\23-2100_PTB206-040_D6_V-V_Ph1-2_FEI_Prime\WO-03\CADD\CADD_Sheets\D672250-sht-staging.dgn

FUHRMANN ENGINEERING
WWW. FUHRMANN-ENG .COM

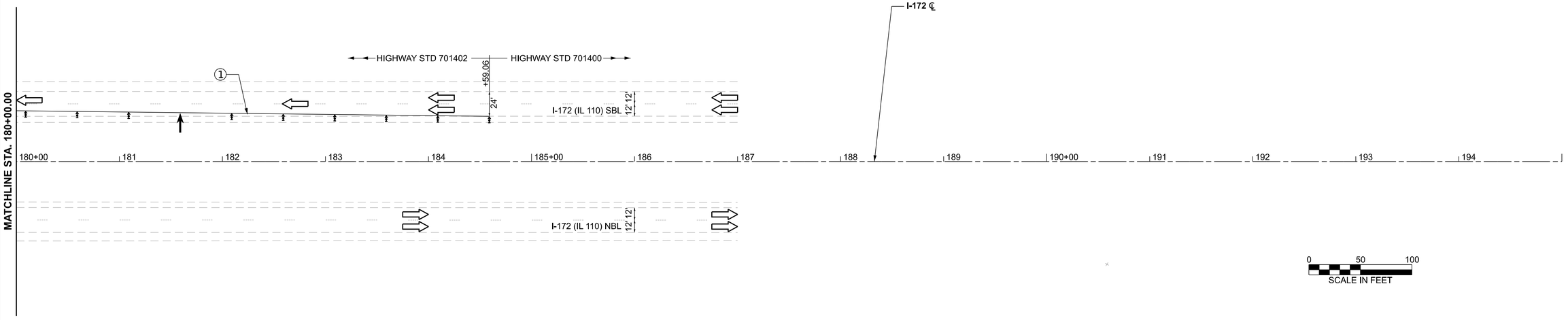
USER NAME = ggayt	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 8/13/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN
STAGE 1

SCALE: 1"=50' | SHEET 8 OF 13 SHEETS | STA. 165+00.00 | TO STA. 180+00.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-6VBR	ADAMS	113	24
		CONTRACT NO. 72250		
		ILLINOIS	FED. AID PROJECT	



LEGEND

① TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE IV TAPE (SOLID YELLOW)

② TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE IV TAPE (SOLID WHITE)

2" MILL OVERLAY ON SHOULDERS

DIRECTION OF TRAFFIC

SIGN

TEMP. CONC. BARRIER

WORK AREA

MONODIRECTIONAL GUARDRAIL/ BARRIER WALL REFLECTOR

DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT

TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT

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

MODEL: I-172-Stage 1 - I-172-Plan 8 [Sheet]
FILE NAME: C:\Users\ggayt\Fuhrmann Engineering\Internal - Drive\Projects\FE\Jobs_2023\23-2100_PTB206-040_D6_V-V_Ph1-2_FEI_Prime\WO-03\CADD\CADD_Sheets\D672250-sht-staging.dgn

FUHRMANN ENGINEERING
WWW. FUHRMANN-ENG .COM

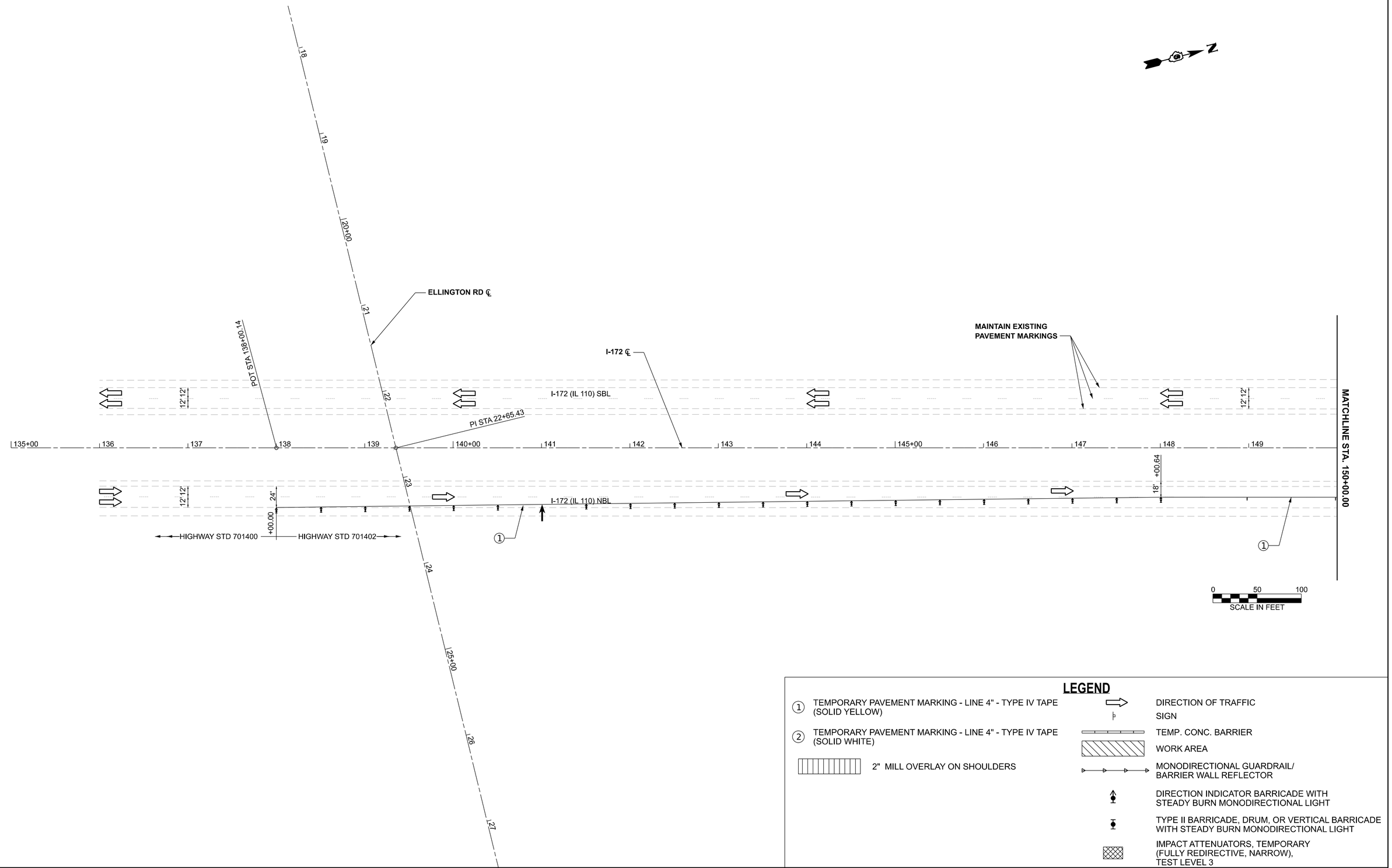
USER NAME = ggayt	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 8/13/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN
STAGE 1

SCALE: 1"=50' | SHEET 9 OF 13 SHEETS | STA. 180+00.00 | TO STA. 195+00.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-6VBR	ADAMS	113	25
		CONTRACT NO. 72250		
		ILLINOIS FED. AID PROJECT		



LEGEND

① TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE IV TAPE (SOLID YELLOW)	DIRECTION OF TRAFFIC
	SIGN
② TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE IV TAPE (SOLID WHITE)	TEMP. CONC. BARRIER
	WORK AREA
2" MILL OVERLAY ON SHOULDERS	MONODIRECTIONAL GUARDRAIL/ BARRIER WALL REFLECTOR
	DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
	TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3

MODEL: I-172-Stage 2 - I-172-Plan 9 [Sheet]
FILE NAME: C:\Users\ggayt\Fuhrmann Engineering\Internal - Drive\Projects\FE\Jobs_2023\23-2100_FTB206-040_D6_V-V_Ph1-2_FEL Prime\WO-03\CADD\CADD_Sheets\D6722250-sht-staging.dgn

FUHRMANN ENGINEERING
WWW. FUHRMANN-ENG .COM

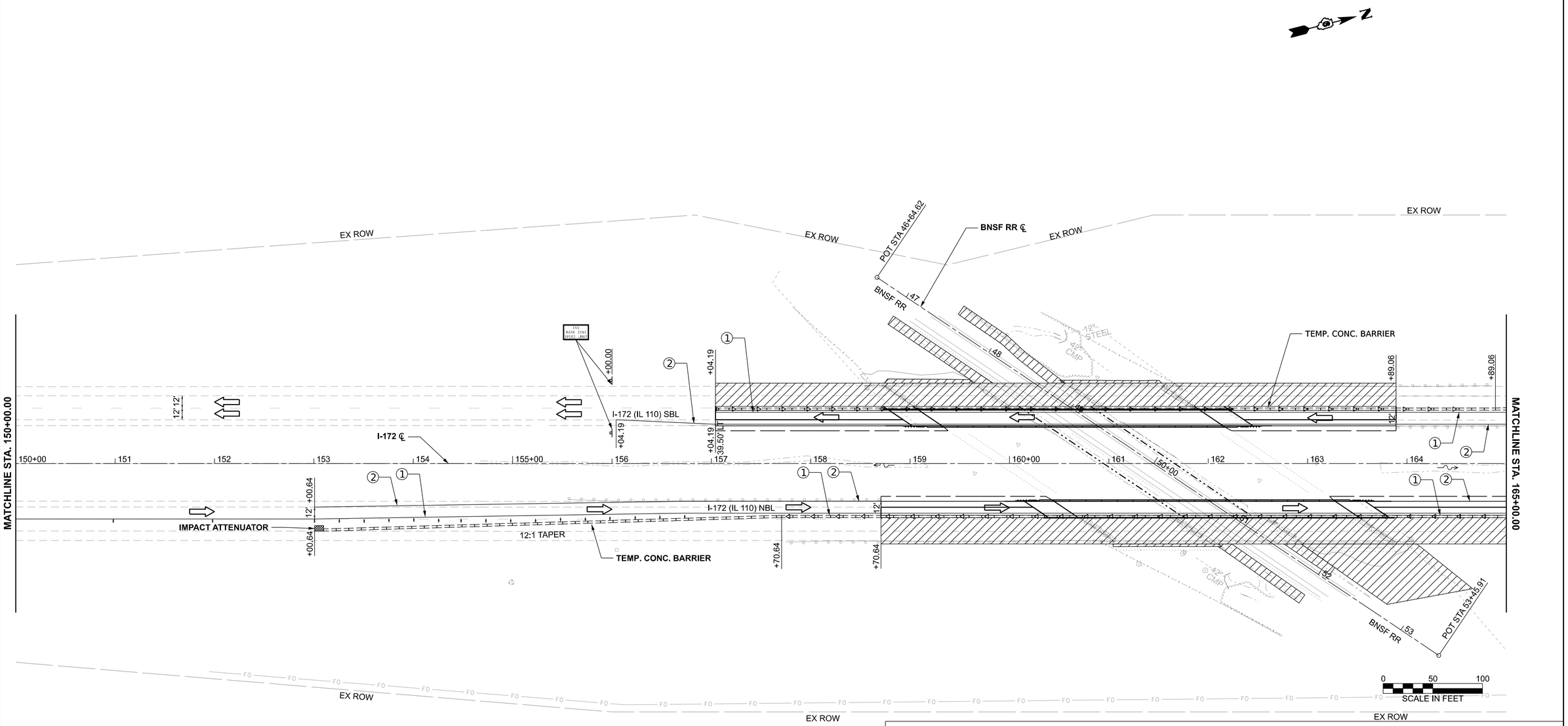
USER NAME = ggayt	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 8/13/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN
STAGE 2

SCALE: 1"=50' | SHEET 10 OF 13 SHEETS | STA. 135+00.00 | TO STA. 150+00.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-6VBR	ADAMS	113	26
		CONTRACT NO. 72250		
	ILLINOIS	FED. AID PROJECT		



LEGEND

① TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE IV TAPE (SOLID YELLOW)

② TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE IV TAPE (SOLID WHITE)

2" MILL OVERLAY ON SHOULDERS

DIRECTION OF TRAFFIC

SIGN

TEMP. CONC. BARRIER

WORK AREA

MONODIRECTIONAL GUARDRAIL/ BARRIER WALL REFLECTOR

DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT

TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT

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

MODEL: I-172-Stage 2 - I-172-Plan 10 [Sheet]
FILE NAME: C:\Users\ggayt\Fuhrmann Engineering\Internal - Drive\Projects\FE\jobs_2023\23-2100_PTB205-040_D6_V-V_Ph1-2_FEI_Prime\WO-03\CADD\CADD_Sheets\D672250-sht-staging.dgn

FUHRMANN ENGINEERING
WWW. FUHRMANN-ENG .COM

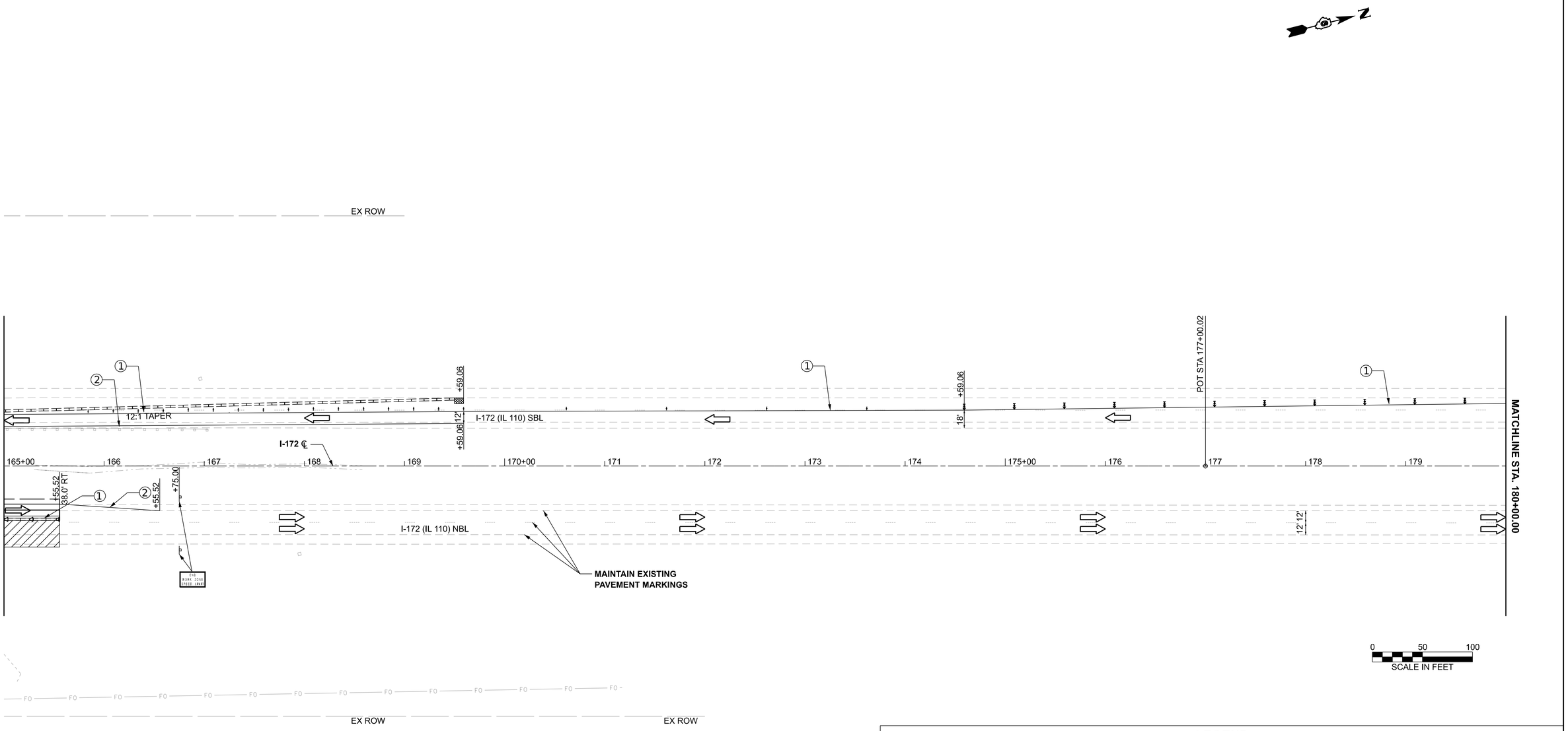
USER NAME = ggayt	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 8/13/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN
STAGE 2

SCALE: 1"=50' | SHEET 11 OF 13 SHEETS | STA. 150+00.00 | TO STA. 165+00.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-6VBR	ADAMS	113	27
		CONTRACT NO. 72250		
	ILLINOIS	FED. AID PROJECT		



LEGEND

① TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE IV TAPE (SOLID YELLOW)

② TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE IV TAPE (SOLID WHITE)

2" MILL OVERLAY ON SHOULDERS

DIRECTION OF TRAFFIC

SIGN

TEMP. CONC. BARRIER

WORK AREA

MONODIRECTIONAL GUARDRAIL/ BARRIER WALL REFLECTOR

DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT

TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT

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

MODEL: I-172-Stage 2 - I-172-Plan 11 [Sheet]
FILE NAME: C:\Users\ggayt\Fuhrmann Engineering\Internal - Drive\Projects\FEI\Jobs_2023\23-2100_PTB206-040_D6_V-V_Ph1-2_FEI_Prime\WO-03\CADD\CADD_Sheets\D672250-sht-staging.dgn

FUHRMANN ENGINEERING
WWW. FUHRMANN-ENG .COM

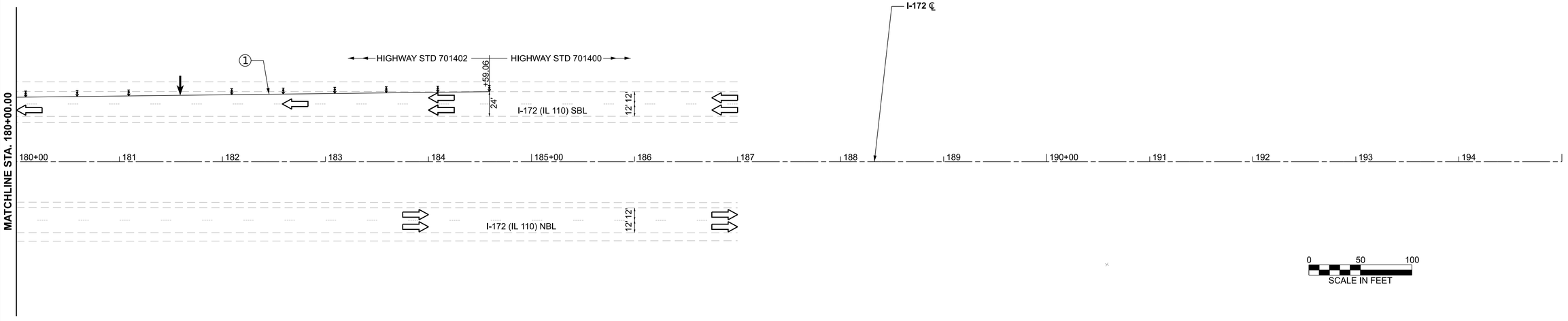
USER NAME = ggayt	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 8/13/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN
STAGE 2

SCALE: 1"=50' | SHEET 12 OF 13 SHEETS | STA. 165+00.00 | TO STA. 180+00.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-6VBR	ADAMS	113	28
		CONTRACT NO. 72250		
	ILLINOIS	FED. AID PROJECT		



LEGEND

① TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE IV TAPE (SOLID YELLOW)

② TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE IV TAPE (SOLID WHITE)

2" MILL OVERLAY ON SHOULDERS

DIRECTION OF TRAFFIC

SIGN

TEMP. CONC. BARRIER

WORK AREA

MONODIRECTIONAL GUARDRAIL/ BARRIER WALL REFLECTOR

DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT

TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT

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

MODEL: I-172-Stage 2 - I-172-Plan 12 [Sheet]
FILE NAME: C:\Users\ggayt\Fuhrmann Engineering\Internal - Drive\Projects\FE\Jobs_2023\23-2100_PTB206-040_D6_V-V_Ph1-2_FEI_Prime\WO-03\CADD\CADD_Sheets\D672250-sht-staging.dgn

FUHRMANN ENGINEERING
WWW. FUHRMANN-ENG .COM

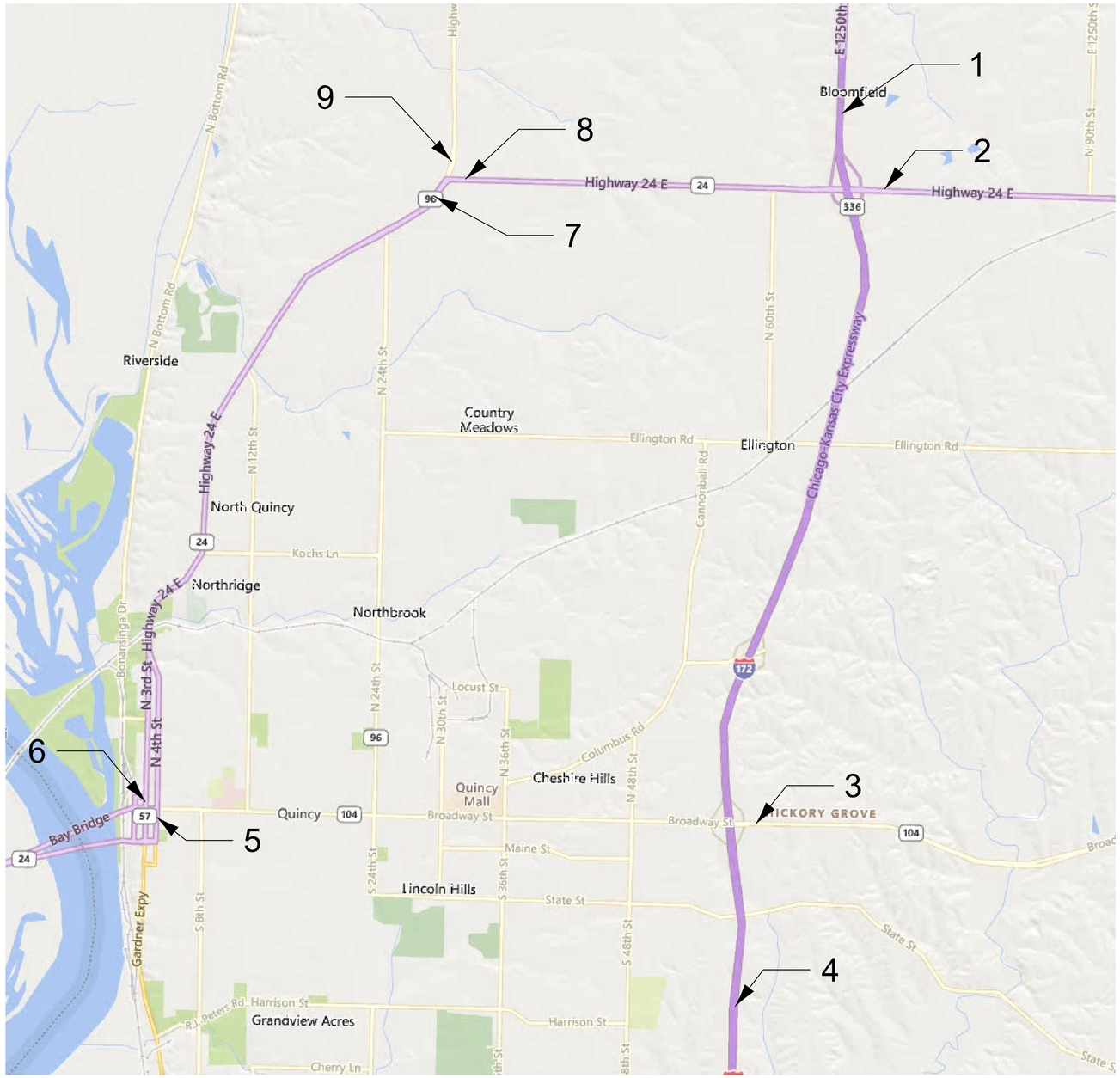
USER NAME = ggayt	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 8/13/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN
STAGE 2

SCALE: 1"=50' | SHEET 13 OF 13 SHEETS | STA. 180+00.00 | TO STA. 195+00.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-6VBR	ADAMS	113	29
		CONTRACT NO. 72250		
	ILLINOIS FED. AID PROJECT			



PROPOSED MAX WIDTH SIGN LOCATIONS
9 EACH - STANDARD SIGN W12-I103 48"X48" WITH FLAG
MAX WIDTH 12'-6"
9 EACH - ADDITIONAL PLACARD 24"X48"
I-172 BRIDGE OVER BNSF RR

LOCATION	DESCRIPTION	DISTANCE (MILES)
1	I-172 S.B. - N. OF I-172/US 24 INTERSECTION	2
2	US 24 W.B. - EAST OF RAMPS	2
3	IL 104 W.B. - EAST OF RAMPS	4
4	I-172 N.B. - S. OF I-172/IL104 INTERSECTION	5
5	US 24 E.B. (4TH ST) AT IL104/BROADWAY	8
6	US 24 W.B. (3RD ST) - NORTH OF IL104/BROADWAY	8
7	IL 96 N.B. AT US 24/IL 96 INTERSECTION S.W. OF BOY SCOUT RD.	5
8	US 24 E.B. AT US 24/IL 96 INTERSECTION E. OF BOY SCOUT RD.	5
9	IL 96 S.B. AT US 24/IL 96 INTERSECTION N. OF BOY SCOUT RD.	5

MODEL: Max Width Detail
FILE NAME: C:\Users\ggayt\Fuhrmann Engineering\Internal - Drive\Projects\FEI\Jobs_2023\23-2100_PTB208-040_D6_V-V_Ph1-2_FEI_Prime\WO-03\CADD\CADD_Sheets\D672250-sht-maxwidthdetail.dgn

FUHRMANN ENGINEERING
WWW. FUHRMANN-ENG .COM

USER NAME = ggayt	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
	CHECKED -	REVISED -	
PLOT DATE = 8/13/2026	DATE -	REVISED -	

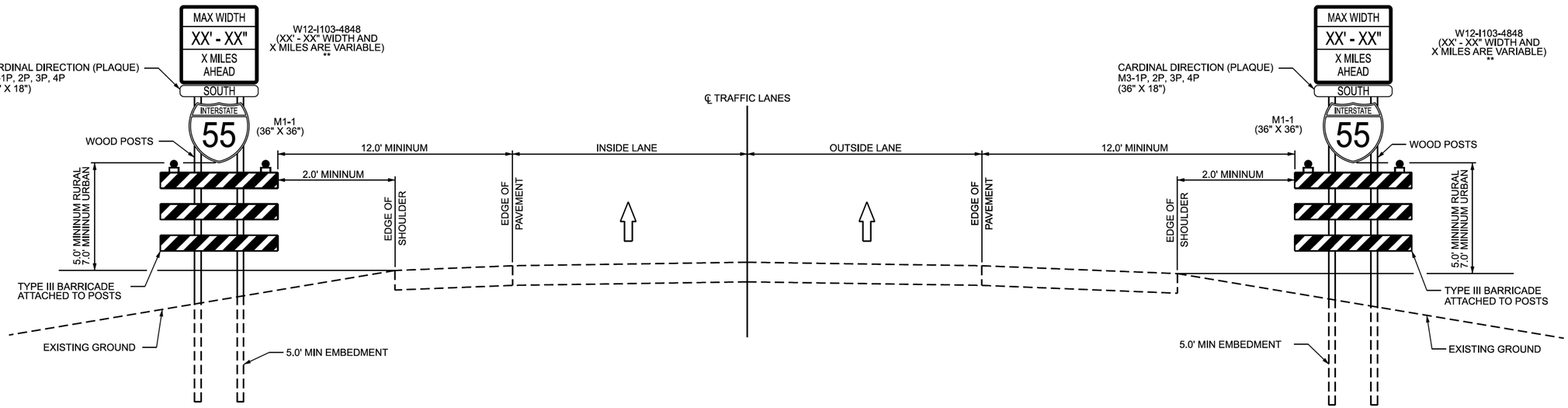
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAX WIDTH DETAIL
I-172 OVER BNSF RR

SCALE: | SHEET 1 OF 2 SHEETS | STA. | TO STA.

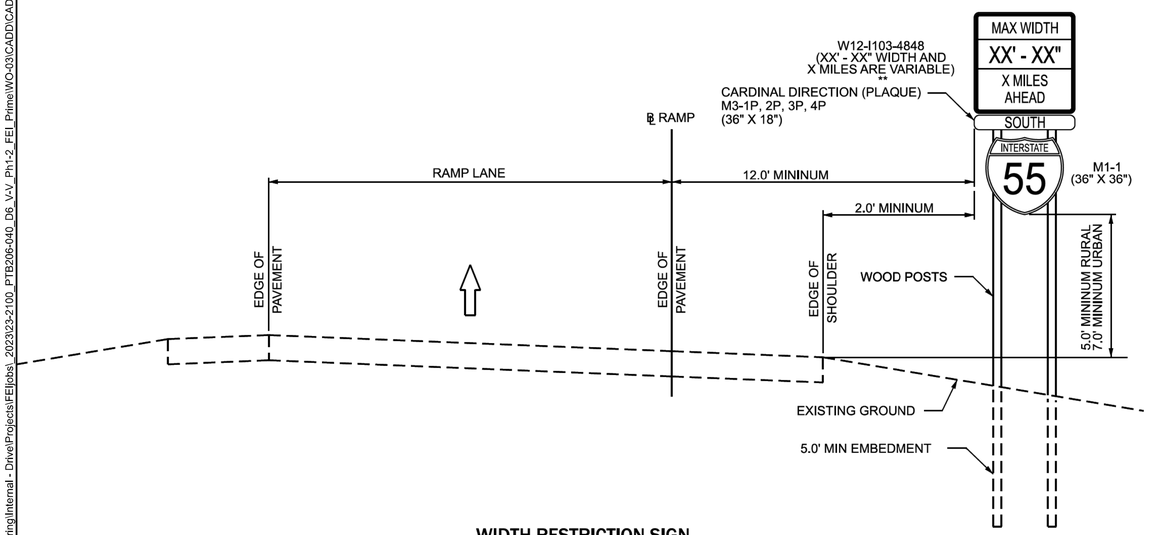
F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-6VBR	ADAMS	113	30
		CONTRACT NO. 72250		
	ILLINOIS	FED. AID PROJECT		

© 2026 Microsoft Corporation © 2026 TomTom



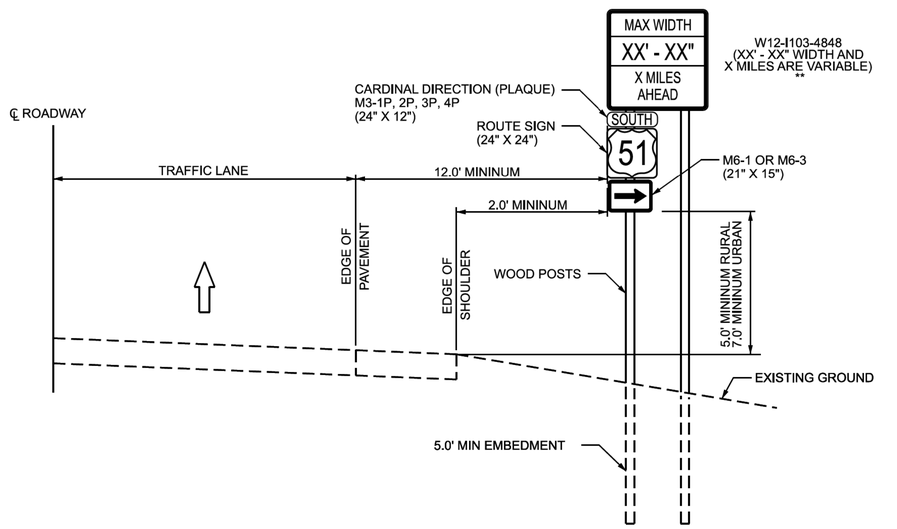
WIDTH RESTRICTION SIGN
INTERSTATE AND EXPRESSWAYS
MAINLINE PAVEMENT

** NOTE: MILAGE SHALL BE DISPLAYED AS A WHOLE NUMBER OR FRACTION. NO DECIMALS WILL BE ALLOWED



WIDTH RESTRICTION SIGN
INTERSTATE AND EXPRESSWAYS
RAMP PAVEMENT

** NOTE: MILAGE SHALL BE DISPLAYED AS A WHOLE NUMBER OR FRACTION. NO DECIMALS WILL BE ALLOWED



WIDTH RESTRICTION SIGN
CONVENTIONAL ROADWAYS

** NOTE: MILAGE SHALL BE DISPLAYED AS A WHOLE NUMBER OR FRACTION. NO DECIMALS WILL BE ALLOWED

WIDTH RESTRICTION SIGN DETAIL

MODEL: District Max Width Signing Detail -2
FILE NAME: C:\Users\ggayt\Fuhrmann Engineering\Internal - Drive\Projects\FE\Jobs_2023\23-2100_FTB206-040_D6_V-V_Ph1-2_FEL Prime\WO-03\CADD\CADD_Sheets\D672250-sht-maxwidthdetail.dgn

FUHRMANN ENGINEERING
WWW. FUHRMANN-ENG .COM

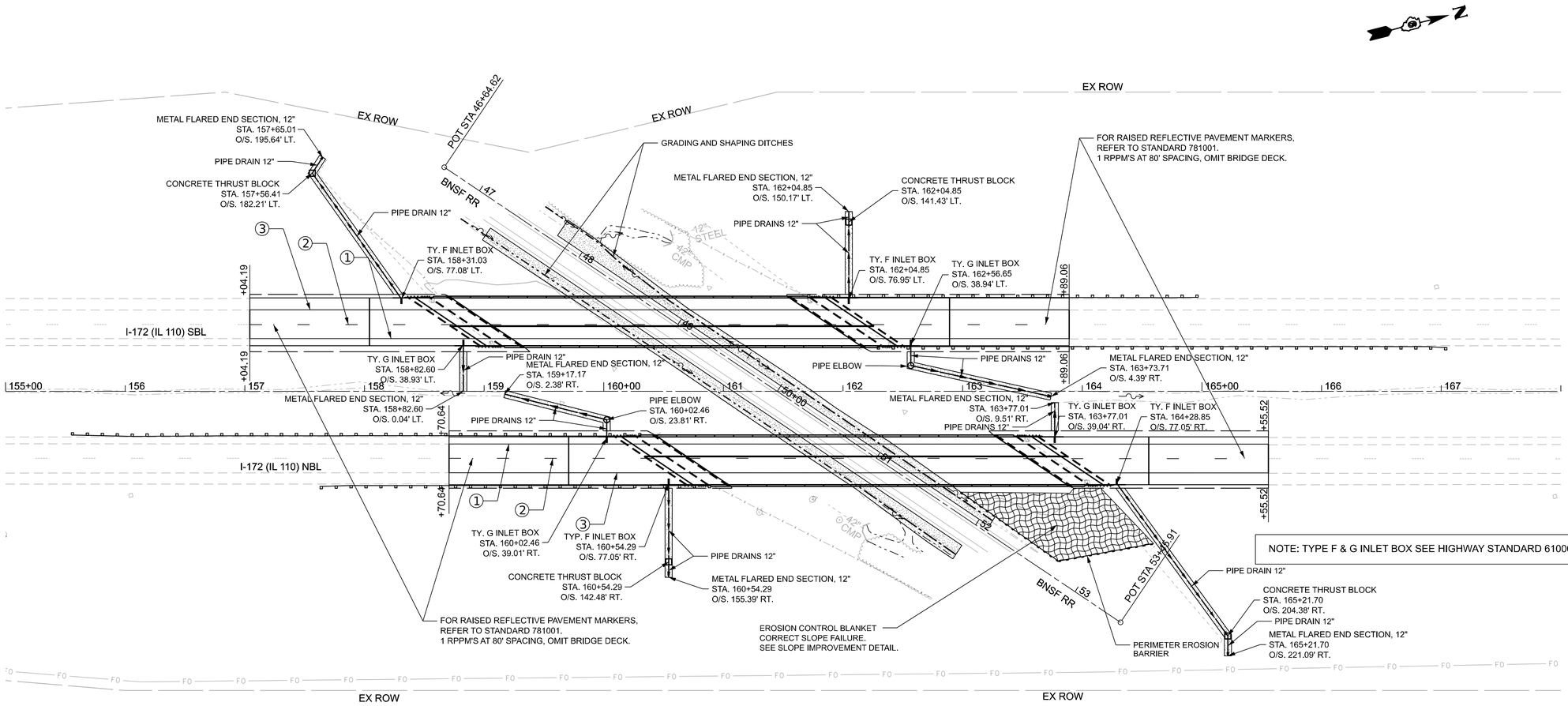
USER NAME = ggayt	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 8/13/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT MAX WIDTH SIGNING DETAIL
I-172 OVER BNSF RR

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

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-6VBR	ADAMS	113	31
		CONTRACT NO. 72250		
	ILLINOIS	FED. AID PROJECT		



LEGEND

(1) MODIFIED URETHANE PAVEMENT MARKING - 6" SOLID (YELLOW)	MULCH, METHOD 2 SEEDING, CLASS 2A
(2) MODIFIED URETHANE PAVEMENT MARKING - 6" SKIP-DASH (WHITE)	EROSION CONTROL BLANKET SEEDING, CLASS 2A
(3) MODIFIED URETHANE PAVEMENT MARKING - 6" SOLID (WHITE)	PERIMETER EROSION BARRIER

FUHRMANN ENGINEERING
WWW. FUHRMANN-ENG .COM

USER NAME = ggayt	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 8/13/2026	DATE -	REVISED -

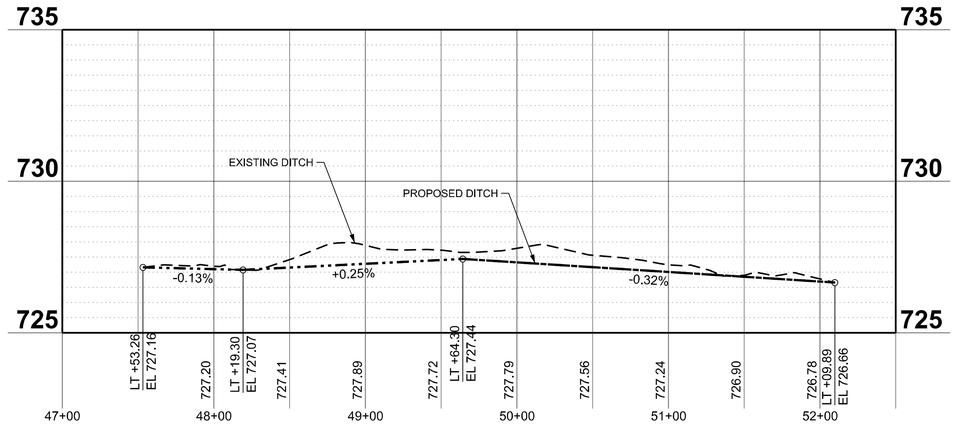
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND EROSION CONTROL
I-172 OVER BNSF RR

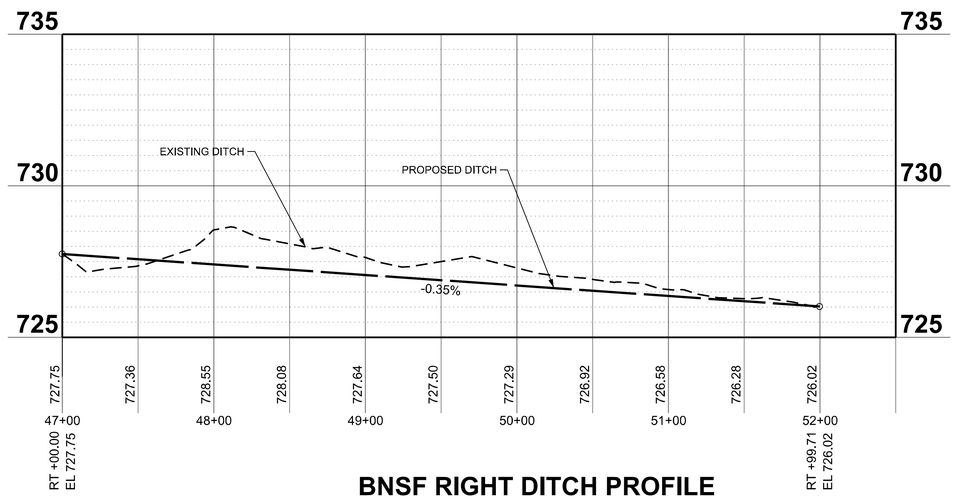
SCALE: 1"=50' | SHEET 1 OF 1 SHEETS | STA. 155+00.00 | TO STA. 168+00.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-6VBR	ADAMS	113	32
		CONTRACT NO. 72250		
	ILLINOIS FED. AID PROJECT			

MODEL: Pvmt Mkg Plan - Pvmt Mkg Plan [Sheet]
FILE NAME: C:\Users\ggayt\Fuhrmann Engineering\Internal - Drive\Projects\FE\Jobs_2023\23-2100_PTB206-040_D6_V-V_Ph1-2_FEI Prime\WO-03\CADD\CADD_Sheets\D672250-sht-PvmtMkg&ErosionControl.dgn



BNSF LEFT DITCH PROFILE



BNSF RIGHT DITCH PROFILE

MODEL: Ditch Profile [Sheet]
FILE NAME: C:\Users\ggayt\Fuhrmann Engineering\Internal - Drive\Projects\FE\Jobs_2023\23-2100_FTB206-040_D6_V-V_Ph1-2_FEL Prime\WO-03\CADD\CADD_Sheets\D6722250-sht-ditch_profiles.dgn

FUHRMANN ENGINEERING
WWW. FUHRMANN-ENG .COM

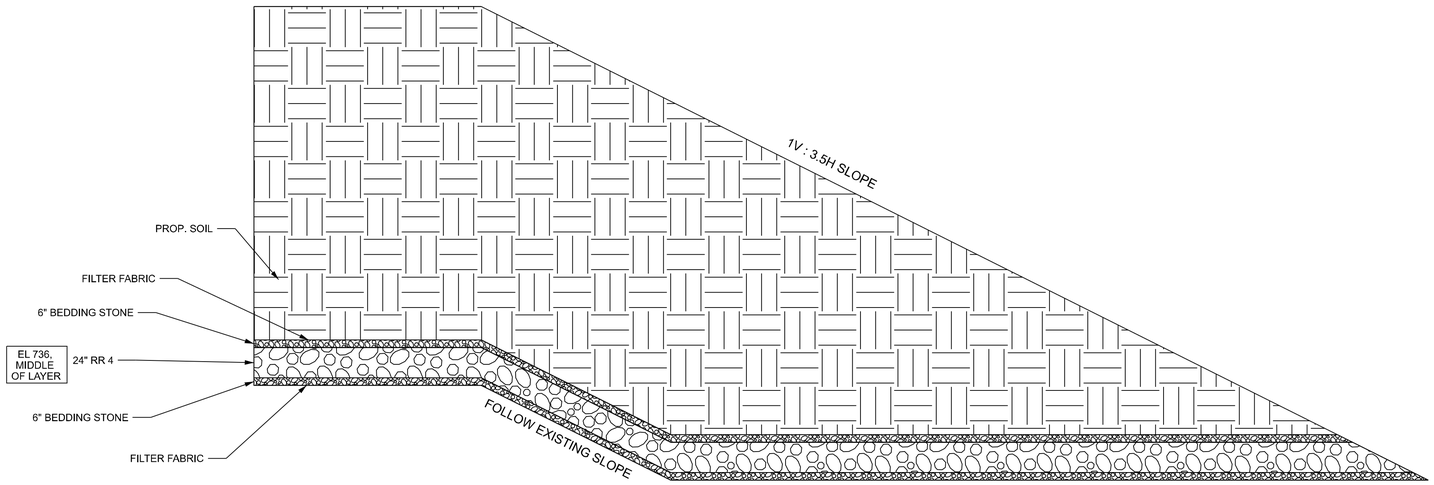
USER NAME = ggayt	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 8/13/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

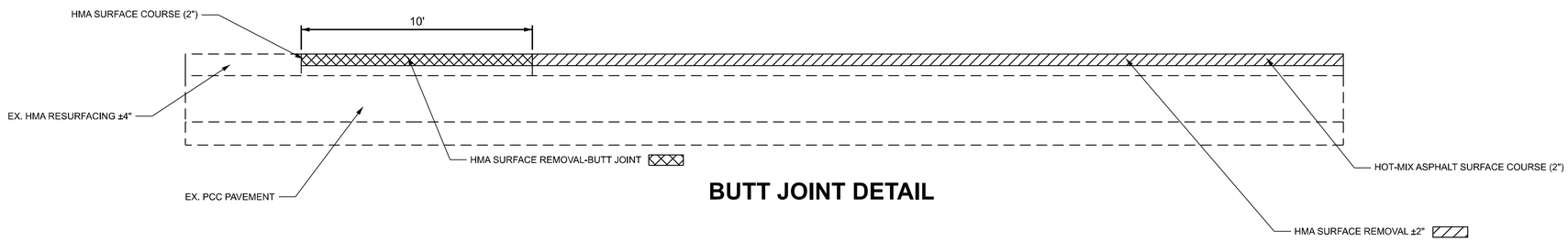
BNSF DITCH PROFILES
I-172 OVER BNSF RR

SCALE: 1"=50' | SHEET 1 OF 1 SHEETS | STA. 47+00.00 | TO STA. 52+00.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-6VBR	ADAMS	113	33
		CONTRACT NO. 72250		
	ILLINOIS	FED. AID PROJECT		



SLOPE IMPROVEMENT DETAIL



BUTT JOINT DETAIL

MODEL: Slope Improvement Detail Sheet
FILE NAME: C:\Users\ggayt\Fuhrmann Engineering\Internal - Drive\Projects\FE\Jobs_2023\23-2100_FTB206-040_D6_V-V_Ph1-2_FEL Prime\WO-03\CADD\CADD_Sheets\D672250-sht-slope&buttjointdetail.dgn

FUHRMANN ENGINEERING
WWW. FUHRMANN-ENG .COM

USER NAME = ggayt	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 8/13/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SLOPE IMPROVEMENT & BUTT JOINT DETAIL
I-172 OVER BNSF RR

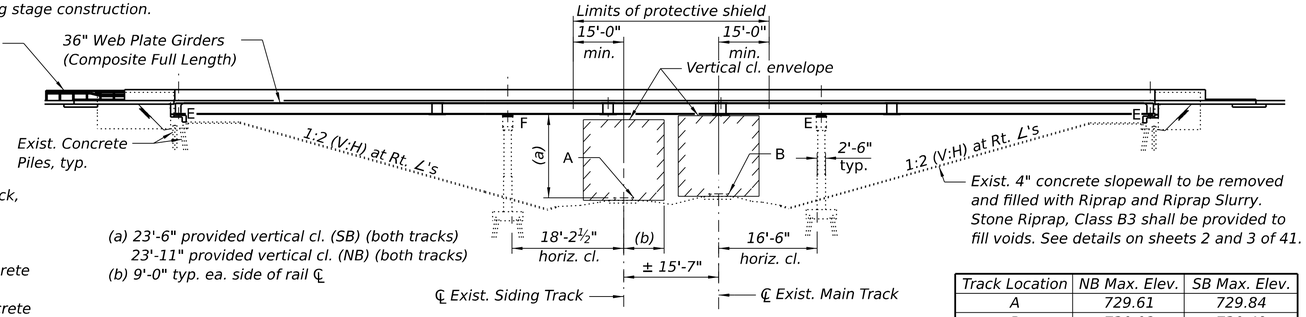
SCALE: | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-6VBR	ADAMS	113	34
		CONTRACT NO. 72250		
	ILLINOIS	FED. AID PROJECT		

Benchmark: Chiseled "□" on SW corner of SW approach wall on NB lane bridge (S.N. 001-0051), Elevation = 760.43.

Existing Structure: SN 001-0050 and SN 001-0051 were originally built in 1976 on FA Route 407 under section 1-6VB. The structures are three-span bridges with concrete stub abutments on precast concrete piles with an overall length of 288'-3" from back to back of abutments. The piers consist of a solid crash wall, circular columns, and a pier cap on precast concrete piles. The superstructure is made of a 7" reinforced concrete deck, scarified ¾", and a 2⅜" microsilica overlay on 48" PPC concrete I-beams. The width of the structures is 42'-0" out-to-out of the deck. Traffic will be maintained using stage construction.

No salvage.



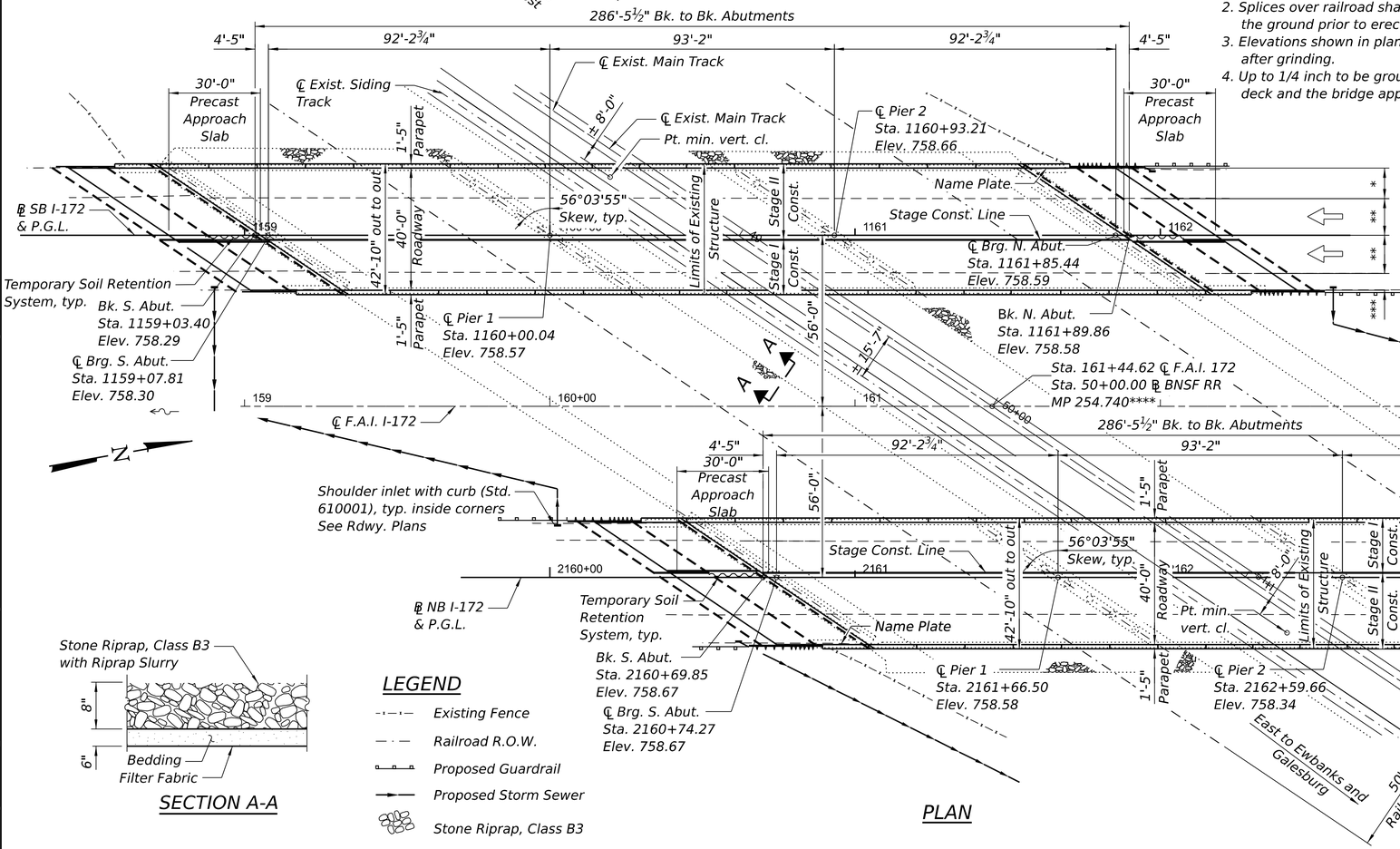
SCOPE OF WORK

1. Remove 2¼"microsilica overlay, parapets, deck, girders, bearings, and approach slabs.
2. Modify existing abutments to semi-integral configurations and reconstruct wingwalls.
3. Construct new bearings, superstructure, concrete deck slab, and approach slabs.
4. Repair abutments and piers with formed concrete repairs, construct concrete bearing seat extentions, and extend crashwalls.
5. Fill voids below slope wall. Repair existing slope walls using Slope Wall Repairs and Slope Wall Crack Sealing.

Track Location	NB Max. Elev.	SB Max. Elev.
A	729.61	729.84
B	730.02	730.49

Notes:
1. No freefall deck drains will be permitted in the span over the tracks or within 10 ft. of cross arms of a railroad pole line.
2. Splices over railroad shall be assembled on the ground prior to erection.
3. Elevations shown in plan represent elevations after grinding.
4. Up to 1/4 inch to be ground off the bridge deck and the bridge approach slabs.

ELEVATION



SECTION A-A

LEGEND

- Existing Fence
- Railroad R.O.W.
- Proposed Guardrail
- Proposed Storm Sewer
- Stone Riprap, Class B3

PLAN

INDEX OF SHEETS

1. General Plan and Elevation
2. General Data
3. Stage Construction Details - I
4. Stage Construction Details - II
5. Temporary Concrete Barrier for Stage Construction
6. Top of Deck Elevations - SB - I
7. Top of Deck Elevations - SB - II
8. Top of Deck Elevations - SB - III
9. Top of Deck Elevations - NB - I
10. Top of Deck Elevations - NB - II
11. Top of Deck Elevations - NB - III
12. Top of SB Approach Slab Elevations
13. Top of NB Approach Slab Elevations
14. Superstructure - SB - I
15. Superstructure - SB - II
16. Superstructure - NB - I
17. Superstructure - NB - II
18. Superstructure Details - I
19. Superstructure Details - II
20. Diaphragm Details - I
21. Diaphragm Details - II
22. Partial Depth Precast Bridge Approach Slab - I
23. Partial Depth Precast Bridge Approach Slab - II
24. Bridge Approach Slab Details - I
25. Bridge Approach Slab Details - II
26. Preformed Joint Strip Seal
27. Framing Plan and Girder Elevation
28. Structural Steel Details - I
29. Structural Steel Details - II
30. Bearing Details
31. Abutment Removal - I
32. Abutment Removal - II
33. South Abutment Details - SB
34. North Abutment Details - SB
35. South Abutment Details - NB
36. North Abutment Details - NB
37. Pier Repairs
38. Piers Details - SB
39. Piers Details - NB
40. Concrete Parapet Slipforming Option
41. Bar Splicer Assembly and Mechanical Splicer Details

DESIGN STRESSES

FIELD UNITS (NEW CONSTRUCTION)
f'c = 4,000 psi (superstructure)
f'c = 3,500 psi (substructure)
fy = 60,000 psi (reinforcement)
fy = 50,000 psi (M270 Grade 50) *
fy = 36,000 psi (M270 Grade 36) *
FIELD UNITS (EXIST. CONSTRUCTION)
f c = 1,400 psi
f s = 20,000 psi (reinforcement)
* Galvanized

SEISMIC DATA

Seismic Retrofit Category (SRC) = B
Design Spectral Acceleration at 1.0 sec. (SD1) = 0.138g
Design Spectral Acceleration at 0.2 sec. (SDS) = 0.215g
Soil Site Class = D
Performance Level (PL) = PL2

DESIGN SPECIFICATIONS

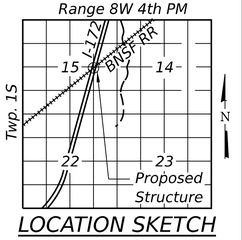
NEW CONSTRUCTION
2024 AASHTO LRFD Bridge Design Specifications, 10th Edition
EXISTING CONSTRUCTION
2006 FHWA Seismic Retrofit Manual for Highway Structures

LOADING HL-93

Allow 50 #/sq. ft. for future wearing surface

LICENSED STRUCTURAL ENGINEER
FRANCIS A SMITH JR
081-005860
STATE OF ILLINOIS

Francis A Smith 8/18/2026
Exp. Date 11/30/2026



LOCATION SKETCH

GENERAL PLAN AND ELEVATION
I-172 OVER BNSF RR
F.A.I. ROUTE 172 - SEC. 1-6VBR
ADAMS COUNTY
STATION 161+44.62
STRUCTURE NO. 001-0050 (S.B.)
STRUCTURE NO. 001-0051 (N.B.)

FILE NAME: L:\FurhmannEng\24007089-00_I-172\7089000\CADD Data\Bridge\CADD Sheets\D672250 - 001 - General Plan and Elevation.dgn

CMT
License No.: 184-000613 © Copyright CMT, Inc.

USER NAME = dcochran	DESIGNED - DAC	REVISED -	
	DRAWN - DAC	REVISED -	
	CHECKED - FAS	REVISED -	
PLOT DATE = 8/3/2026	DATE - 8/18/2026	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
STRUCTURE NO. 001-0050 (SB) & 001-0051 (NB)

SCALE: | SHEET 1 OF 41 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-6VBR	ADAMS	113	35
		CONTRACT NO. 72250		
		ILLINOIS	FED. AID PROJECT	

GENERAL NOTES

1. All new structural steel shall be galvanized. See Special Provision for "Hot Dip Galvanizing for Structural Steel".
2. Calculated weight of Structural Steel:
   M270 Grade 50 = 994,360 pounds
   M270 Grade 36 = 54,930 pounds
3. No field welding is permitted except as specified in the contract documents.
4. Fasteners shall be ASTM F 3125 Grade A325 Type 1, hot-dip galvanized. See Special Provision for "Hot Dip Galvanizing for Structural Steel." Bolts $\frac{7}{8}$ in. diameter, holes $\frac{15}{16}$ in. diameter, unless otherwise noted.
5. Reinforcement bars designated (E) shall be epoxy coated.
6. Reinforcement bars designated (S) shall be stainless steel.
7. 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.
8. The concrete for bridge decks finished according to Article 503.16(a) of the Standard Specifications shall be placed and compacted parallel to the skew in uniform increments along centerline of bridge. The machine used for finishing shall be set to the skew for sriking off and screeding the concrete.
9. Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of 1/8 in. (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.
10. Plan dimensions and details relative to the existing structure have been taken from existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustements prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
11. Existing Name Plate shall be cleaned and relocated next to new Name Plate. Cost included with Name Plates.
12. The existing bearing retainers contain lead plates. The Contractor shall take precautions to deal with the presence of lead on this project.
13. Removal of SN 001-0050 (SB) will be paid for as Removal of Existing Superstructures No. 1 and removal of SN 001-0051 (NB) will be paid for as Removal of Existing Superstructures No. 2.
14. It shall be the Contractor's responsibility to verify the location of utilities prior to starting construction. Contact J.U.L.I.E., 800-892-0123.

STA. 1160+61.73
REBUILT 20__ BY
STATE OF ILLINOIS
F.A.I. RTE. 172 SEC. 1-6VBR
LOADING HL-93
STRUCTURE NO. 001-0050

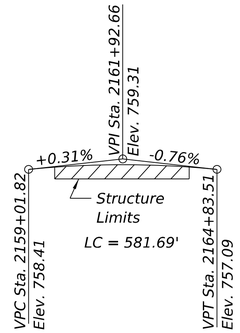
NAME PLATE
See Std. 515001

STA. 2162+28.18
REBUILT 20__ BY
STATE OF ILLINOIS
F.A.I. RTE. 172 SEC. 1-6VBR
LOADING HL-93
STRUCTURE NO. 001-0051

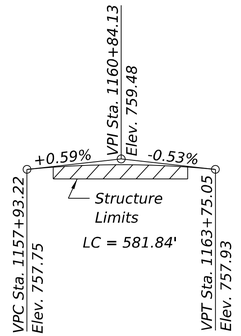
NAME PLATE
See Std. 515001

TOTAL BILL OF MATERIAL

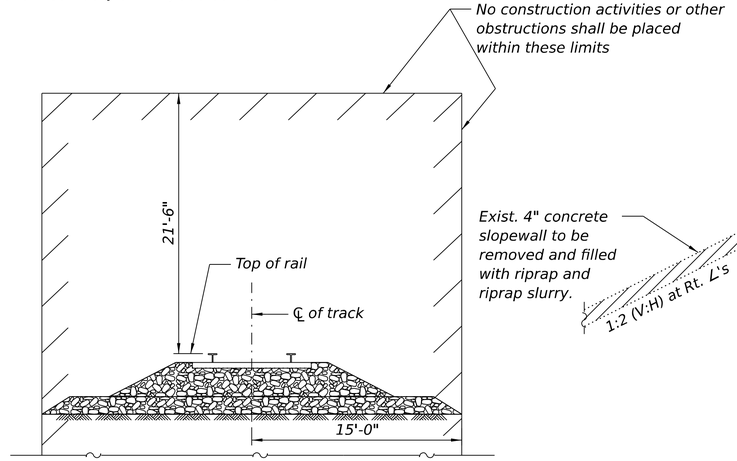
ITEM	UNIT	SUPER	SUB	TOTAL
Stone Riprap, Class B3	Ton	0	1,547	1,547
Filter Fabric	Sq. Yd.	0	4,300	4,300
Removal of Existing Superstructures No. 1	Each	1	0	1
Removal of Existing Superstructures No. 2	Each	1	0	1
Concrete Removal	Cu. Yd.	0	88.3	88.3
Slope Wall Removal	Sq. Yd.	0	4,300	4,300
Protective Shield	Sq. Yd.	781	0	781
Structure Excavation	Cu. Yd.	0	847	847
Floor Drains	Each	32	0	32
Concrete Structures	Cu. Yd.	0	219.7	219.7
Concrete Superstructure	Cu. Yd.	955.5	0	955.5
Protective Coat	Sq. Yd.	3,676	0	3,676
Furnishing and Erecting Structural Steel	L. Sum	1	0	1
Stud Shear Connectors	Each	15,512	0	15,512
Reinforcement Bars, Epoxy Coated	Pound	139,720	17,900	157,620
Bar Splicers	Each	1,910	76	1,986
Name Plates	Each	2	0	2
Preformed Joint Strip Seal	Foot	294	0	294
Elastomeric Bearing Assembly, Type I	Each	42	0	42
Anchor Bolts, 3/4"	Each	56	0	56
Anchor Bolts, 1"	Each	56	0	56
Temporary Soil Retention System	Sq. Ft.	0	259	259
Drainage System for Structures	L. Sum	1	0	1
Granular Backfill for Structures	Cu. Yd.	0	848	848
Geocomposite Wall Drain	Sq. Yd.	0	393	393
Pipe Underdrains for Structures 4"	Foot	0	451	451
Acrylic Coating	Sq. Yd.	0	63	63
Fiber Wrap	Sq. Ft.	0	1,143	1,143
Riprap Slurry	Sq. Yd.	0	4,300	4,300
Bridge Deck Grooving (Longitudinal)	Sq. Yd.	1,829	0	1,829
Concrete Wearing Surface, 5¼"	Sq. Yd.	416	0	416
Precast Bridge Approach Slab	Sq. Ft.	4,920	0	4,920
Reinforcement Bars, Stainless Steel	Pound	106,990	0	106,990
Bar Terminators	Each	440	0	440
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	Sq. Ft.	0	44	44
Diamond Grinding (Bridge Section)	Sq. Yd.	3,048	0	3,048



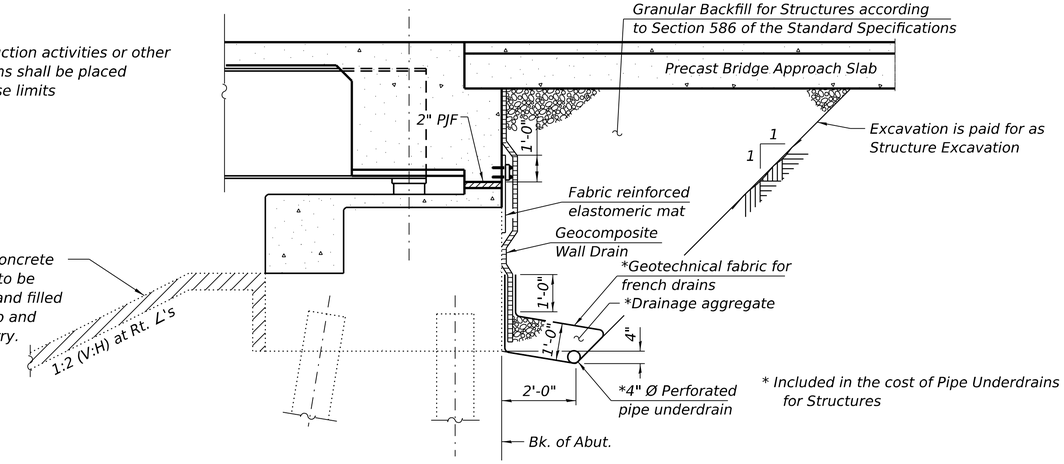
PROFILE GRADE - ℄ NB I-172



PROFILE GRADE - ℄ SB I-172



MINIMUM CONSTRUCTION CLEARANCE ENVELOPE
(Normal to Railroad)

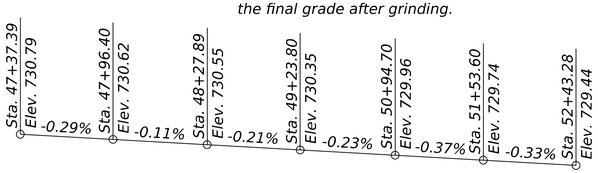


* Included in the cost of Pipe Underdrains for Structures

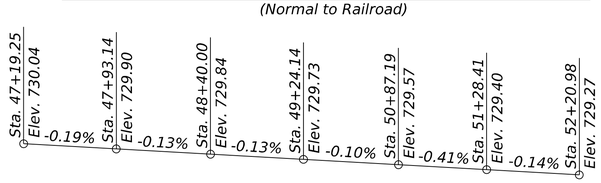
SECTION THRU SEMI-INTEGRAL ABUTMENT
(Horiz. dim. at Rt. ∠'s)

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

Note: The Profile Grades show the final grade after grinding.



PROFILE GRADE - NORTH RAILS
(Stations per ℄ BNSF PGL)



PROFILE GRADE - SOUTH RAILS
(Stations per ℄ BNSF PGL)

BYPASS FLOWRATE FROM BRIDGE LIMITS (END OF APPROACH SLAB) TO ROADWAY

	NW Curbline	SW Curbline	NE Curbline	SE Curbline
SN 001-0050 Q(C.F.S)	0.287	0.865	0.398	0.544
SN 001-0051 Q(C.F.S)	0.791	0.151	1.167	0.000

FILE NAME: L:\FurhmannEng\24007089-00 I-172\708900\CADD Data\Bridge\CADD Sheets\D672250 - 002 - General Data.dgn

CMT
License No. 184-000613 © Copyright CMT, Inc.

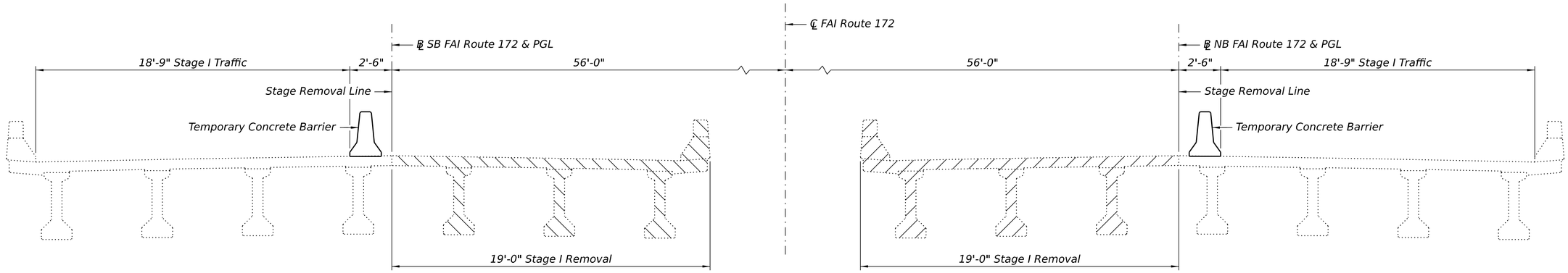
USER NAME = vtan	DESIGNED - VT	REVISED -	
	DRAWN - VT	REVISED -	
	CHECKED - DAC	REVISED -	
PLOT DATE = 6/8/2026	DATE - 8/18/2026	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL DATA
STRUCTURE NO. 001-0050 (SB) & 001-0051 (NB)

SCALE: | SHEET 2 OF 41 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-6VBR	ADAMS	113	36
		CONTRACT NO. 72250		
		ILLINOIS	FED. AID PROJECT	

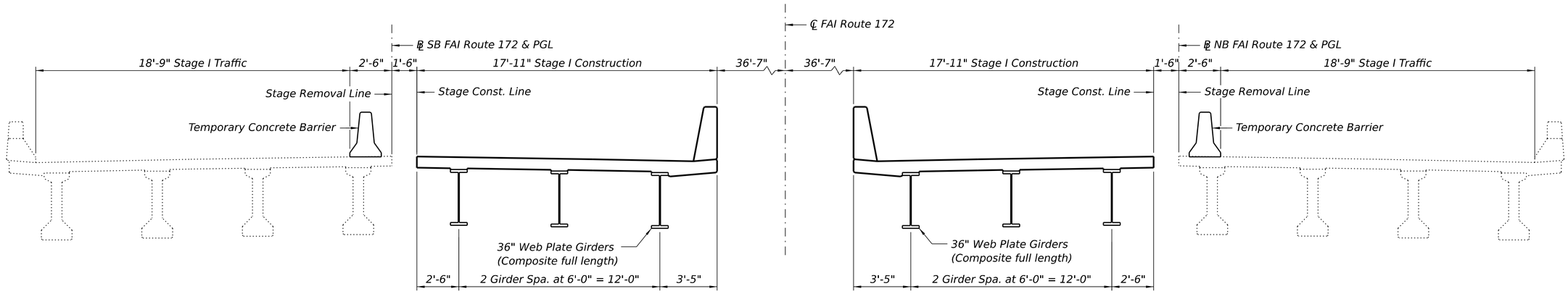


SB CROSS SECTION

NB CROSS SECTION

STAGE I REMOVAL

(Looking north)

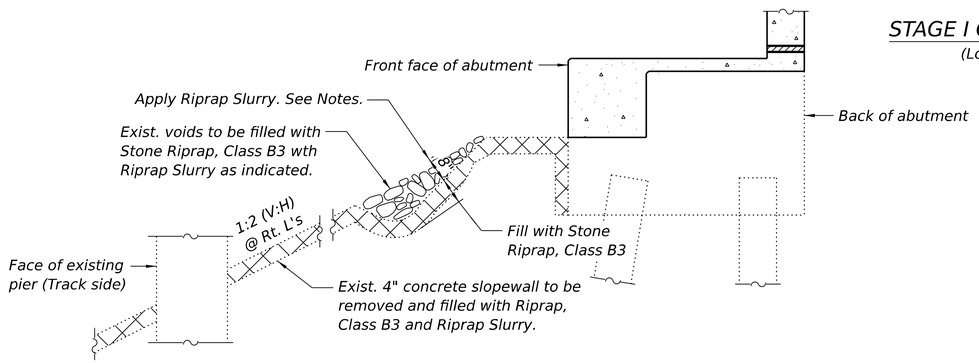


SB CROSS SECTION

NB CROSS SECTION

STAGE I CONSTRUCTION

(Looking north)



TYPICAL SECTION THRU EXISTING CONCRETE SLOPEWALL

Notes:

1. *The existing 4" concrete slopewall shall be removed.*
2. *Fill any voids and grade the slopewall with riprap as shown herein and as directed by the Engineer. The minimum thickness of Stone Riprap, Class B3 shall be 8 inches.*
3. *Riprap Slurry shall be applied to the top 8 inches of Stone Riprap, Class B3.*
4. *A quantity of 114 tons of Stone Riprap, Class B3 has been estimated to fill voids in the existing slopewalls. The required quantity may vary and the Resident Engineer shall adjust the riprap quantity as required to suit the field conditions. Such variations shall not be cause for additional compensation for a change in scope of work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.*
5. *See roadway plans for quantity of Temporary Concrete Barrier.*

FILE NAME: ...\FurhmannEngi\240070089-00_I-172\708900\CADD Data\Bridge\CADD Sheets\D6722250 - 003 - Stage Construction Details - I.dgn

CMT
License No. 184-000613 © Copyright CMT, Inc.

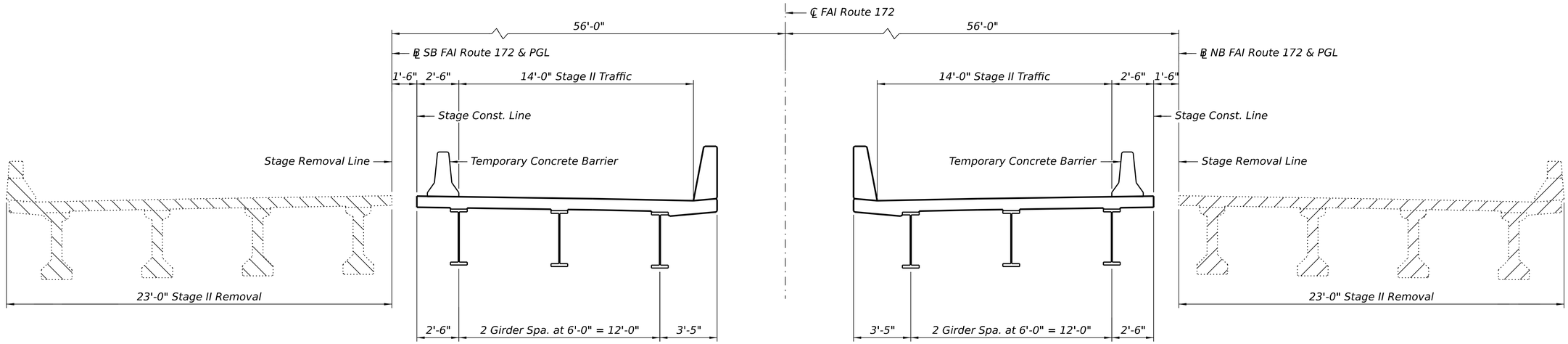
USER NAME = vtan	DESIGNED - VT	REVISED -	
	DRAWN - VT	REVISED -	
	CHECKED - DAC	REVISED -	
PLOT DATE = 5/27/2026	DATE - 8/18/2026	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE CONSTRUCTION DETAILS - I
STRUCTURE NO. 001-0050 (SB) & 001-0051 (NB)

SCALE: | SHEET 3 OF 41 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-6VBR	ADAMS	113	37
		CONTRACT NO. 72250		
	ILLINOIS	FED. AID PROJECT		

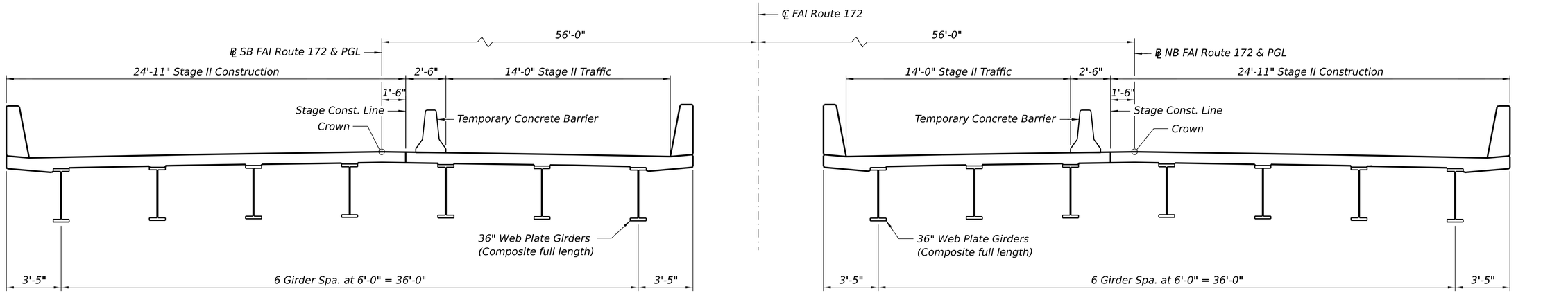


SB CROSS SECTION

NB CROSS SECTION

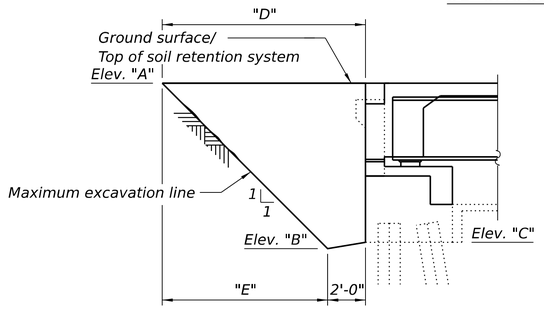
STAGE II REMOVAL

(Looking north)



SB CROSS SECTION

NB CROSS SECTION



TEMPORARY SOIL RETENTION SYSTEM

(Dimensions along ℄ NB I-172 or ℄ SB I-172)

STAGE II CONSTRUCTION

(Looking north)

Location	"A"	"B"	"C"	"D"	"E"
SN 001-0050 S. Abut.	758.31	748.78	749.11	11'-6½"	9'-6½"
SN 001-0051 S. Abut.	758.69	749.32	749.65	11'-4½"	9'-4½"
SN 001-0050 N. Abut.	758.60	749.02	749.35	11'-7"	9'-7"
SN 001-0051 N. Abut.	757.93	748.14	748.47	11'-9½"	9'-9½"

Note:
A cantilevered sheet piling design does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.

FILE NAME: L:\FurhmannEng\24007089-00_I-172\708900\CADD Data\Bridge\CADD Sheets\D672250 - 004 - Stage Construction Details - II.dgn

CMT
License No. 184-000613
© Copyright CMT, Inc.

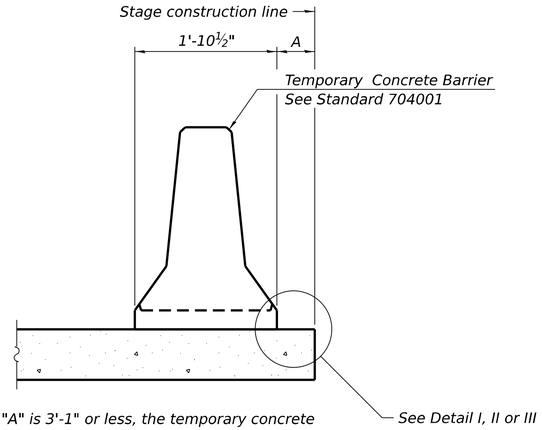
USER NAME = vtan	DESIGNED - VT	REVISED -	
	DRAWN - VT	REVISED -	
	CHECKED - DAC	REVISED -	
PLOT DATE = 5/27/2026	DATE - 8/18/2026	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE CONSTRUCTION DETAILS - II
STRUCTURE NO. 001-0050 (SB) & 001-0051 (NB)

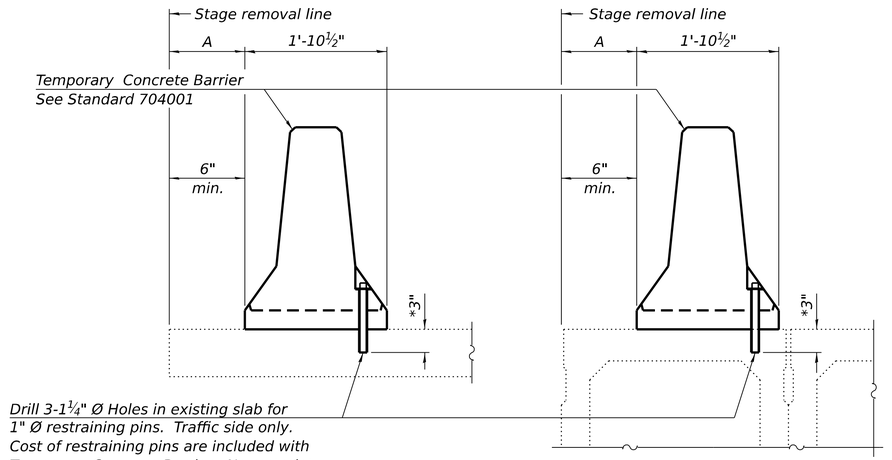
SCALE: | SHEET 4 OF 41 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-6VBR	ADAMS	113	38
		CONTRACT NO. 72250		
	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".

NEW SLAB OR NEW DECK BEAM



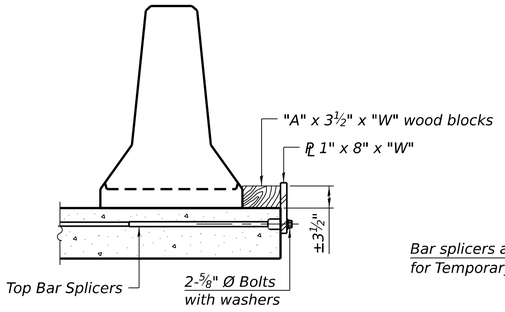
Drill 3-1¼" Ø Holes in existing slab for 1" Ø restraining pins. Traffic side only. Cost of restraining pins are included with Temporary Concrete Barrier. No restraint is required when "A" is greater than 3'-1".

EXISTING SLAB

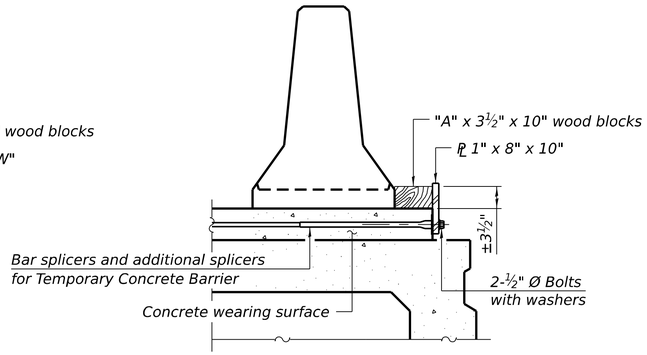
* When hot-mix asphalt wearing surface is present, embedment shall be 3" plus the wearing surface depth.

EXISTING DECK BEAM

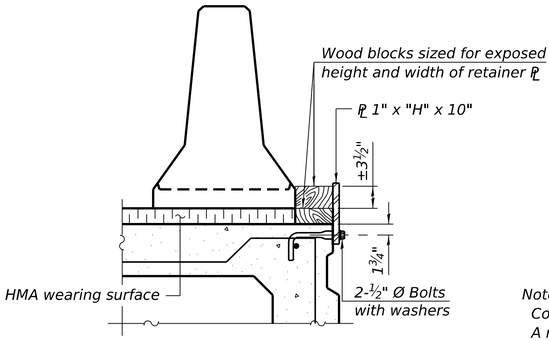
SECTIONS THRU SLAB OR DECK BEAM



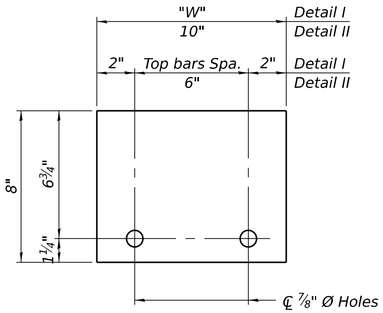
DETAIL I



DETAIL II

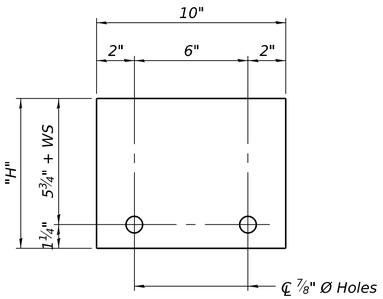


DETAIL III



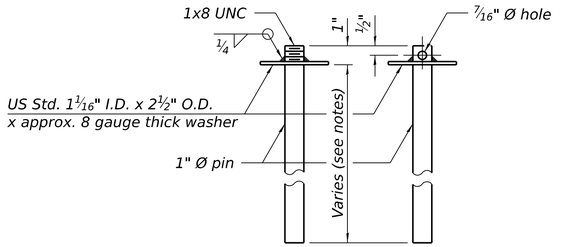
STEEL RETAINER ℄ 1" x 8" x "W"

(Detail I and II)

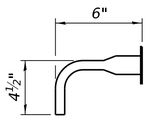


STEEL RETAINER ℄ 1" x "H" x 10"

(Detail III)



RESTRAINING PIN



BAR SPLICER FOR #4 BAR - DETAIL III

Notes:

Cost of retainer assembly is included with Temporary Concrete Barrier.

A retainer assembly shall be located at the approximate ℄ 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 1½", 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

5-15-2023

FILE NAME: L:\FurhmannEng\240070B9-00_I-172\708900\CADD Data\Bridge\CADD Sheets\D672250 - 005 - Temporary Concrete Barrier.dgn

CMT
License No. 184-000613
©Copyright CMT, Inc.

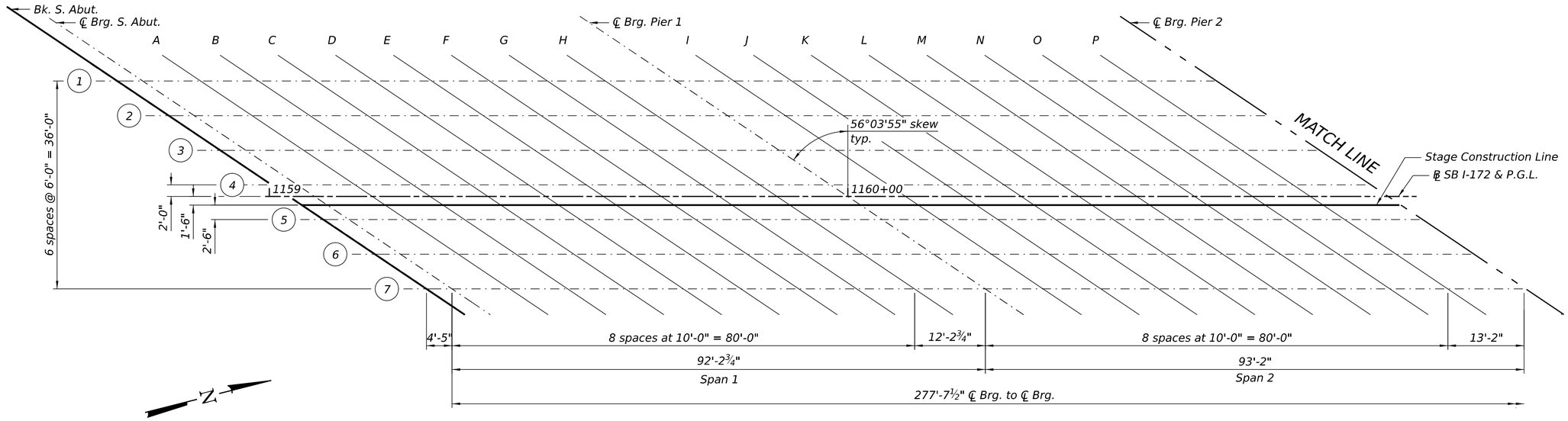
USER NAME = vtan	DESIGNED - DAC	REVISED -	
	DRAWN - DAC	REVISED -	
	CHECKED - FAS	REVISED -	
PLOT DATE = 5/1/2026	DATE - 8/18/2026	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

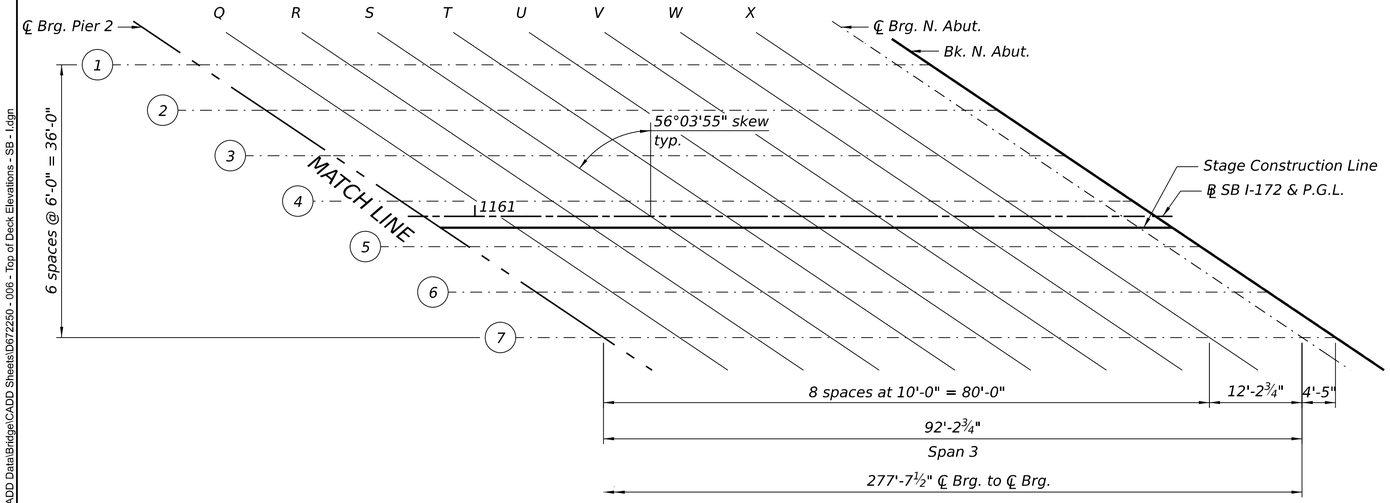
TEMPORARY CONCRETE BARRIER
STRUCTURE NO. 001-0050 (SB) & 001-0051 (NB)

SCALE: | SHEET 5 OF 41 SHEETS | STA. | TO STA.

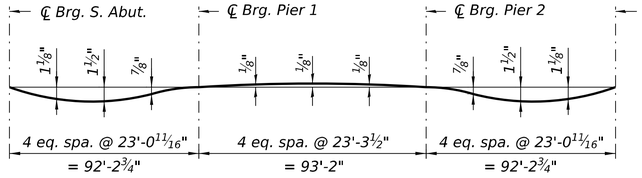
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-6VBR	ADAMS	113	39
		CONTRACT NO. 72250		
	ILLINOIS	FED. AID PROJECT		



PARTIAL DECK ELEVATION LAYOUT - SB



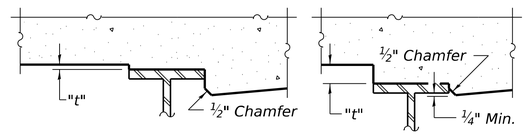
PARTIAL DECK ELEVATION LAYOUT - SB



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 and grinding as shown on Sheets 7 and 8 of 41.



At Minimum Fillet *At Maximum Fillet*

To determine "t": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown on Sheets 7 and 8 of 41. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection and Grinding" shown on Sheet 7 and 8 of 41, minus slab thickness, equals the fillet heights "t" above top flange of girders.

The slab is to be ground after curing to achieve smoothness, but the slab is not to be ground to elevations below the "Theoretical Grade Elevations" shown on Sheets 7 and 8 of 41. For grinding the deck, see Special Provisions.

FILLET HEIGHTS

FILE NAME: L:\FuhmannEng\24007089-00_I-172\708900\CADD Data\Bridge\CADD Sheets\D6722250 - 006 - Top of Deck Elevations - SB - I.dgn

CMT
License No. 184-000613
© Copyright CMT, Inc.

USER NAME = vtan	DESIGNED - VT	REVISED -
	DRAWN - VT	REVISED -
	CHECKED - DAC	REVISED -
PLOT DATE = 6/7/2026	DATE - 8/18/2026	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF DECK ELEVATIONS - SB - I
STRUCTURE NO. 001-0050 (SB) & 001-0051 (NB)

SCALE: | SHEET 6 OF 41 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-6VBR	ADAMS	113	40
		CONTRACT NO. 72250		
	ILLINOIS	FED. AID PROJECT		

GIRDER 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Bk. S. Abut.	1158+73.68	-20.00	757.83	757.85
CL Brg. S. Abut.	1158+78.09	-20.00	757.84	757.86
A	1158+88.09	-20.00	757.89	757.96
B	1158+98.09	-20.00	757.93	758.04
C	1159+08.09	-20.00	757.97	758.11
D	1159+18.09	-20.00	758.00	758.15
E	1159+28.09	-20.00	758.04	758.18
F	1159+38.09	-20.00	758.07	758.19
G	1159+48.09	-20.00	758.10	758.19
H	1159+58.09	-20.00	758.13	758.18
CL Brg. Pier 1	1159+70.32	-20.00	758.16	758.18
I	1159+80.32	-20.00	758.18	758.19
J	1159+90.32	-20.00	758.21	758.22
K	1160+00.32	-20.00	758.23	758.24
L	1160+10.32	-20.00	758.24	758.25
M	1160+20.32	-20.00	758.26	758.27
N	1160+30.32	-20.00	758.28	758.29
O	1160+40.32	-20.00	758.29	758.30
P	1160+50.32	-20.00	758.30	758.31
CL Brg. Pier 2	1160+63.49	-20.00	758.31	758.33
Q	1160+73.49	-20.00	758.32	758.37
R	1160+83.49	-20.00	758.32	758.40
S	1160+93.49	-20.00	758.32	758.43
T	1161+03.49	-20.00	758.32	758.46
U	1161+13.49	-20.00	758.32	758.47
V	1161+23.49	-20.00	758.32	758.46
W	1161+33.49	-20.00	758.31	758.43
X	1161+43.49	-20.00	758.30	758.38
CL Brg. N. Abut.	1161+55.72	-20.00	758.29	758.31
Bk. N. Abut.	1161+60.14	-20.00	758.29	758.31

GIRDER 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Bk. S. Abut.	1158+82.59	-14.00	757.98	758.00
CL Brg. S. Abut.	1158+87.00	-14.00	758.00	758.02
A	1158+97.00	-14.00	758.04	758.11
B	1159+07.00	-14.00	758.08	758.19
C	1159+17.00	-14.00	758.12	758.25
D	1159+27.00	-14.00	758.15	758.29
E	1159+37.00	-14.00	758.18	758.32
F	1159+47.00	-14.00	758.22	758.33
G	1159+57.00	-14.00	758.24	758.32
H	1159+67.00	-14.00	758.27	758.32
CL Brg. Pier 1	1159+79.23	-14.00	758.30	758.32
I	1159+89.23	-14.00	758.32	758.33
J	1159+99.23	-14.00	758.34	758.35
K	1160+09.23	-14.00	758.36	758.37
L	1160+19.23	-14.00	758.38	758.39
M	1160+29.23	-14.00	758.39	758.40
N	1160+39.23	-14.00	758.41	758.42
O	1160+49.23	-14.00	758.42	758.43
P	1160+59.23	-14.00	758.43	758.44
CL Brg. Pier 2	1160+72.40	-14.00	758.44	758.46
Q	1160+82.40	-14.00	758.44	758.49
R	1160+92.40	-14.00	758.44	758.52
S	1161+02.40	-14.00	758.44	758.55
T	1161+12.40	-14.00	758.44	758.57
U	1161+22.40	-14.00	758.44	758.58
V	1161+32.40	-14.00	758.43	758.57
W	1161+42.40	-14.00	758.43	758.55
X	1161+52.40	-14.00	758.42	758.50
CL Brg. N. Abut.	1161+64.63	-14.00	758.40	758.42
Bk. N. Abut.	1161+69.05	-14.00	758.40	758.42

GIRDER 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Bk. S. Abut.	1158+91.51	-8.00	758.12	758.14
CL Brg. S. Abut.	1158+95.92	-8.00	758.14	758.16
A	1159+05.92	-8.00	758.18	758.25
B	1159+15.92	-8.00	758.21	758.32
C	1159+25.92	-8.00	758.25	758.38
D	1159+35.92	-8.00	758.28	758.42
E	1159+45.92	-8.00	758.31	758.45
F	1159+55.92	-8.00	758.34	758.45
G	1159+65.92	-8.00	758.37	758.45
H	1159+75.92	-8.00	758.39	758.44
CL Brg. Pier 1	1159+88.15	-8.00	758.42	758.44
I	1159+98.15	-8.00	758.44	758.45
J	1160+08.15	-8.00	758.46	758.47
K	1160+18.15	-8.00	758.48	758.49
L	1160+28.15	-8.00	758.49	758.50
M	1160+38.15	-8.00	758.51	758.52
N	1160+48.15	-8.00	758.52	758.53
O	1160+58.15	-8.00	758.53	758.54
P	1160+68.15	-8.00	758.53	758.54
CL Brg. Pier 2	1160+81.32	-8.00	758.54	758.56
Q	1160+91.32	-8.00	758.54	758.59
R	1161+01.32	-8.00	758.54	758.62
S	1161+11.32	-8.00	758.54	758.65
T	1161+21.32	-8.00	758.54	758.67
U	1161+31.32	-8.00	758.53	758.67
V	1161+41.32	-8.00	758.53	758.67
W	1161+51.32	-8.00	758.52	758.64
X	1161+61.32	-8.00	758.51	758.59
CL Brg. N. Abut.	1161+73.55	-8.00	758.49	758.51
Bk. N. Abut.	1161+77.97	-8.00	758.48	758.50

GIRDER 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Bk. S. Abut.	1159+00.43	-2.00	758.25	758.27
CL Brg. S. Abut.	1159+04.84	-2.00	758.26	758.28
A	1159+14.84	-2.00	758.30	758.37
B	1159+24.84	-2.00	758.33	758.44
C	1159+34.84	-2.00	758.37	758.50
D	1159+44.84	-2.00	758.40	758.54
E	1159+54.84	-2.00	758.43	758.57
F	1159+64.84	-2.00	758.46	758.57
G	1159+74.84	-2.00	758.48	758.56
H	1159+84.84	-2.00	758.50	758.55
CL Brg. Pier 1	1159+97.07	-2.00	758.53	758.55
I	1160+07.07	-2.00	758.55	758.56
J	1160+17.07	-2.00	758.57	758.58
K	1160+27.07	-2.00	758.58	758.59
L	1160+37.07	-2.00	758.59	758.60
M	1160+47.07	-2.00	758.61	758.62
N	1160+57.07	-2.00	758.61	758.62
O	1160+67.07	-2.00	758.62	758.63
P	1160+77.07	-2.00	758.63	758.64
CL Brg. Pier 2	1160+90.24	-2.00	758.63	758.65
Q	1161+00.24	-2.00	758.63	758.68
R	1161+10.24	-2.00	758.63	758.71
S	1161+20.24	-2.00	758.63	758.74
T	1161+30.24	-2.00	758.62	758.75
U	1161+40.24	-2.00	758.62	758.76
V	1161+50.24	-2.00	758.61	758.75
W	1161+60.24	-2.00	758.60	758.72
X	1161+70.24	-2.00	758.58	758.66
CL Brg. N. Abut.	1161+82.47	-2.00	758.57	758.59
Bk. N. Abut.	1161+86.89	-2.00	758.56	758.58

℄ SB I-172 & PGL

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Bk. S. Abut.	1159+03.40	0.00	758.29	758.31
CL Brg. S. Abut.	1159+07.81	0.00	758.30	758.32
A	1159+17.81	0.00	758.34	758.41
B	1159+27.81	0.00	758.37	758.48
C	1159+37.81	0.00	758.41	758.54
D	1159+47.81	0.00	758.44	758.58
E	1159+57.81	0.00	758.47	758.61
F	1159+67.81	0.00	758.49	758.60
G	1159+77.81	0.00	758.52	758.60
H	1159+87.81	0.00	758.54	758.59
CL Brg. Pier 1	1160+00.04	0.00	758.57	758.59
I	1160+10.04	0.00	758.58	758.59
J	1160+20.04	0.00	758.60	758.61
K	1160+30.04	0.00	758.61	758.62
L	1160+40.04	0.00	758.63	758.64
M	1160+50.04	0.00	758.64	758.65
N	1160+60.04	0.00	758.65	758.66
O	1160+70.04	0.00	758.65	758.66
P	1160+80.04	0.00	758.66	758.67
CL Brg. Pier 2	1160+93.21	0.00	758.66	758.68
Q	1161+03.21	0.00	758.66	758.71
R	1161+13.21	0.00	758.66	758.74
S	1161+23.21	0.00	758.66	758.77
T	1161+33.21	0.00	758.65	758.78
U	1161+43.21	0.00	758.64	758.78
V	1161+53.21	0.00	758.64	758.78
W	1161+63.21	0.00	758.62	758.74
X	1161+73.21	0.00	758.61	758.69
CL Brg. N. Abut.	1161+85.44	0.00	758.59	758.61
Bk. N. Abut.	1161+89.86	0.00	758.58	758.60

STAGE CONSTRUCTION LINE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Bk. S. Abut.	1159+05.63	1.50	758.27	758.29
CL Brg. S. Abut.	1159+10.04	1.50	758.29	758.31
A	1159+20.04	1.50	758.33	758.40
B	1159+30.04	1.50	758.36	758.47
C	1159+40.04	1.50	758.39	758.52
D	1159+50.04	1.50	758.42	758.56
E	1159+60.04	1.50	758.45	758.59
F	1159+70.04	1.50	758.48	758.59
G	1159+80.04	1.50	758.50	758.58
H	1159+90.04	1.50	758.52	758.57
CL Brg. Pier 1	1160+02.27	1.50	758.55	758.57
I	1160+12.27	1.50	758.57	758.58
J	1160+22.27	1.50	758.58	758.59
K	1160+32.27	1.50	758.60	758.61
L	1160+42.27	1.50	758.61	758.62
M	1160+52.27	1.50	758.62	758.63
N	1160+62.27	1.50	758.63	758.64
O	1160+72.27	1.50	758.63	758.64
P	1160+82.27	1.50	758.64	758.65
CL Brg. Pier 2	1160+95.44	1.50	758.64	758.66
Q	1161+05.44	1.50	758.64	758.69
R	1161+15.44	1.50	758.64	758.72
S	1161+25.44	1.50	758.63	758.74
T	1161+35.44	1.50	758.63	758.76
U	1161+45.44	1.50	758.62	758.76
V	1161+55.44	1.50	758.61	758.75
W	1161+65.44	1.50	758.60	758.72
X	1161+75.44	1.50	758.59	758.67
CL Brg. N. Abut.	1161+87.67	1.50	758.57	758.59
Bk. N. Abut.	1161+92.09	1.50	758.56	758.58

FILE NAME: L:\FuhmannEng\24007089-00_I-172\708900\CADD Data\Bridge\CADD Sheets\D672250 - 007 - Top of Deck Elevations - SB - II.dgn

CMT
License No. 184-000613 © Copyright CMT, Inc.

USER NAME = vtan	DESIGNED - VT	REVISED -	
	DRAWN - VT	REVISED -	
	CHECKED - DAC	REVISED -	
PLOT DATE = 5/27/2026	DATE - 8/18/2026	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF DECK ELEVATIONS - SB - II
STRUCTURE NO. 001-0050 (SB) & 001-0051 (NB)

SCALE: | SHEET 7 OF 41 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-6VBR	ADAMS	113	41
		CONTRACT NO. 72250		
	ILLINOIS	FED. AID PROJECT		

GIRDER 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Bk. S. Abut.	1159+09.34	4.00	758.25	758.27
CL Brg. S. Abut.	1159+13.75	4.00	758.27	758.29
A	1159+23.75	4.00	758.30	758.37
B	1159+33.75	4.00	758.33	758.44
C	1159+43.75	4.00	758.37	758.50
D	1159+53.75	4.00	758.39	758.53
E	1159+63.75	4.00	758.42	758.56
F	1159+73.75	4.00	758.45	758.56
G	1159+83.75	4.00	758.47	758.55
H	1159+93.75	4.00	758.49	758.54
CL Brg. Pier 1	1160+05.98	4.00	758.52	758.54
I	1160+15.98	4.00	758.53	758.54
J	1160+25.98	4.00	758.55	758.56
K	1160+35.98	4.00	758.56	758.57
L	1160+45.98	4.00	758.57	758.58
M	1160+55.98	4.00	758.58	758.59
N	1160+65.98	4.00	758.59	758.60
O	1160+75.98	4.00	758.60	758.61
P	1160+85.98	4.00	758.60	758.61
CL Brg. Pier 2	1160+99.15	4.00	758.60	758.62
Q	1161+09.15	4.00	758.60	758.65
R	1161+19.15	4.00	758.60	758.68
S	1161+29.15	4.00	758.59	758.70
T	1161+39.15	4.00	758.59	758.72
U	1161+49.15	4.00	758.58	758.72
V	1161+59.15	4.00	758.57	758.71
W	1161+69.15	4.00	758.56	758.68
X	1161+79.15	4.00	758.54	758.62
CL Brg. N. Abut.	1161+91.38	4.00	758.52	758.54
Bk. N. Abut.	1161+95.80	4.00	758.51	758.53

GIRDER 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Bk. S. Abut.	1159+18.26	10.00	758.19	758.21
CL Brg. S. Abut.	1159+22.67	10.00	758.21	758.23
A	1159+32.67	10.00	758.24	758.31
B	1159+42.67	10.00	758.27	758.38
C	1159+52.67	10.00	758.30	758.43
D	1159+62.67	10.00	758.33	758.47
E	1159+72.67	10.00	758.36	758.50
F	1159+82.67	10.00	758.38	758.49
G	1159+92.67	10.00	758.40	758.48
H	1160+02.67	10.00	758.42	758.47
CL Brg. Pier 1	1160+14.90	10.00	758.44	758.46
I	1160+24.90	10.00	758.46	758.47
J	1160+34.90	10.00	758.47	758.48
K	1160+44.90	10.00	758.48	758.49
L	1160+54.90	10.00	758.49	758.50
M	1160+64.90	10.00	758.50	758.51
N	1160+74.90	10.00	758.51	758.52
O	1160+84.90	10.00	758.51	758.52
P	1160+94.90	10.00	758.51	758.52
CL Brg. Pier 2	1161+08.07	10.00	758.51	758.53
Q	1161+18.07	10.00	758.51	758.56
R	1161+28.07	10.00	758.50	758.58
S	1161+38.07	10.00	758.50	758.61
T	1161+48.07	10.00	758.49	758.62
U	1161+58.07	10.00	758.48	758.62
V	1161+68.07	10.00	758.47	758.61
W	1161+78.07	10.00	758.45	758.57
X	1161+88.07	10.00	758.44	758.52
CL Brg. N. Abut.	1162+00.30	10.00	758.42	758.44
Bk. N. Abut.	1162+04.72	10.00	758.41	758.43

GIRDER 7

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Bk. S. Abut.	1159+27.18	16.00	758.11	758.13
CL Brg. S. Abut.	1159+31.59	16.00	758.13	758.15
A	1159+41.59	16.00	758.16	758.23
B	1159+51.59	16.00	758.19	758.30
C	1159+61.59	16.00	758.22	758.36
D	1159+71.59	16.00	758.24	758.39
E	1159+81.59	16.00	758.27	758.41
F	1159+91.59	16.00	758.29	758.41
G	1160+01.59	16.00	758.31	758.40
H	1160+11.59	16.00	758.33	758.38
CL Brg. Pier 1	1160+23.82	16.00	758.35	758.37
I	1160+33.82	16.00	758.36	758.37
J	1160+43.82	16.00	758.37	758.38
K	1160+53.82	16.00	758.38	758.39
L	1160+63.82	16.00	758.39	758.40
M	1160+73.82	16.00	758.40	758.41
N	1160+83.82	16.00	758.40	758.41
O	1160+93.82	16.00	758.40	758.41
P	1161+03.82	16.00	758.40	758.41
CL Brg. Pier 2	1161+16.99	16.00	758.40	758.42
Q	1161+26.99	16.00	758.40	758.45
R	1161+36.99	16.00	758.39	758.47
S	1161+46.99	16.00	758.38	758.49
T	1161+56.99	16.00	758.37	758.51
U	1161+66.99	16.00	758.36	758.51
V	1161+76.99	16.00	758.35	758.49
W	1161+86.99	16.00	758.33	758.45
X	1161+96.99	16.00	758.31	758.39
CL Brg. N. Abut.	1162+09.22	16.00	758.29	758.31
Bk. N. Abut.	1162+13.64	16.00	758.28	758.30

FILE NAME: L:\FurhmannEng\240077089-00_I-172\70890\CADD Data\Bridge\CADD Sheets\D6722250 - 008 - Top of Deck Elevations - SB - III.dgn

CMT
License No. 184-000613
© Copyright CMT, Inc.

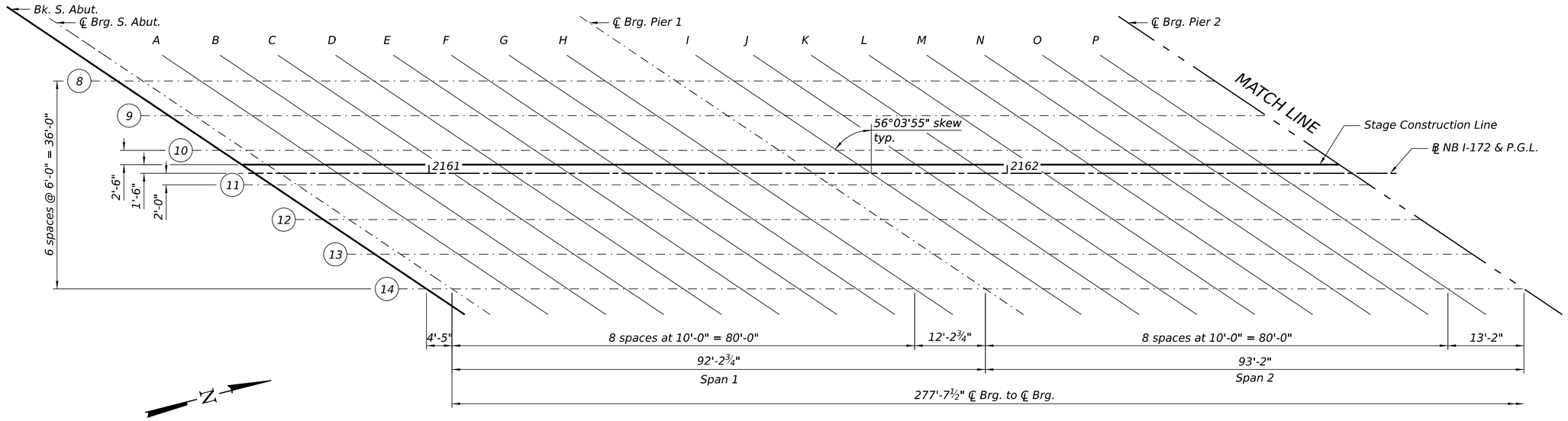
USER NAME = vtan	DESIGNED - VT	REVISED -	
	DRAWN - VT	REVISED -	
	CHECKED - DAC	REVISED -	
PLOT DATE = 5/20/2026	DATE - 8/18/2026	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

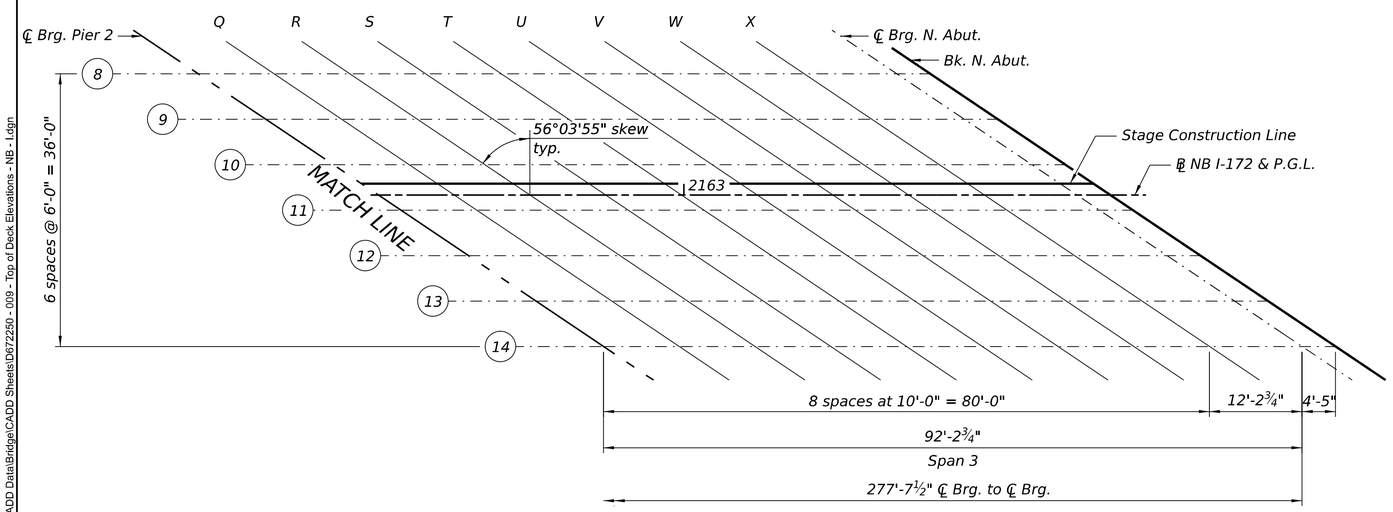
TOP OF DECK ELEVATIONS - SB - III
STRUCTURE NO. 001-0050 (SB) & 001-0051 (NB)

SCALE: | SHEET 8 OF 41 SHEETS | STA. | TO STA.

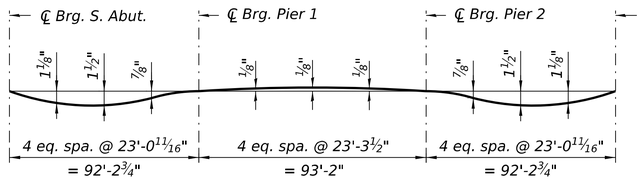
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-6VBR	ADAMS	113	42
		CONTRACT NO. 72250		
	ILLINOIS	FED. AID PROJECT		



PARTIAL DECK ELEVATION LAYOUT - NB



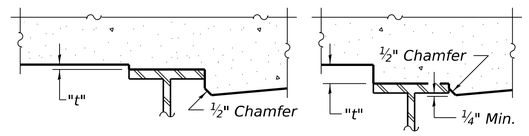
PARTIAL DECK ELEVATION LAYOUT - NB



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 and grinding as shown on Sheets 10 and 11 of 41.



At Minimum Fillet *At Maximum Fillet*

To determine "t": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown on Sheets 10 and 11 of 41. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection and Grinding" shown on Sheet 10 and 11 of 41, minus slab thickness, equals the fillet heights "t" above top flange of girders.
The slab is to be ground after curing to achieve smoothness, but the slab is not to be ground to elevations below the "Theoretical Grade Elevations" shown on Sheets 10 and 11 of 41. For grinding the deck, see Special Provisions.

FILLET HEIGHTS

FILE NAME: L:\FuhmannEng\24007089-00_I-172\708900\CADD Data\Bridge\CADD Sheets\D6722250 - 009 - Top of Deck Elevations - NB - I.dgn

CMT
License No. 184-000613 © Copyright CMT, Inc.

USER NAME = vtan	DESIGNED - VT	REVISED -
	DRAWN - VT	REVISED -
	CHECKED - DAC	REVISED -
PLOT DATE = 5/20/2026	DATE - 8/18/2026	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF DECK ELEVATIONS - NB - I
STRUCTURE NO. 001-0050 (SB) & 001-0051 (NB)

SCALE: | SHEET 9 OF 41 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-6VBR	ADAMS	113	43
		CONTRACT NO. 72250		
	ILLINOIS	FED. AID PROJECT		

GIRDER 8

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Bk. S. Abut.	2160+46.07	-16.00	758.40	758.42
CL Brg. S. Abut.	2160+50.49	-16.00	758.41	758.43
A	2160+60.49	-16.00	758.41	758.48
B	2160+70.49	-16.00	758.41	758.52
C	2160+80.49	-16.00	758.41	758.55
D	2160+90.49	-16.00	758.41	758.56
E	2161+00.49	-16.00	758.40	758.54
F	2161+10.49	-16.00	758.39	758.51
G	2161+20.49	-16.00	758.39	758.48
H	2161+30.49	-16.00	758.38	758.43
CL Brg. Pier 1	2161+42.72	-16.00	758.36	758.38
I	2161+52.72	-16.00	758.35	758.36
J	2161+62.72	-16.00	758.33	758.34
K	2161+72.72	-16.00	758.31	758.32
L	2161+82.72	-16.00	758.29	758.30
M	2161+92.72	-16.00	758.27	758.28
N	2162+02.72	-16.00	758.25	758.26
O	2162+12.72	-16.00	758.22	758.23
P	2162+22.72	-16.00	758.19	758.20
CL Brg. Pier 2	2162+35.88	-16.00	758.15	758.17
Q	2162+45.88	-16.00	758.12	758.17
R	2162+55.88	-16.00	758.09	758.17
S	2162+65.88	-16.00	758.05	758.16
T	2162+75.88	-16.00	758.02	758.16
U	2162+85.88	-16.00	757.98	758.13
V	2162+95.88	-16.00	757.94	758.08
W	2163+05.88	-16.00	757.89	758.01
X	2163+15.88	-16.00	757.85	757.93
CL Brg. N. Abut.	2163+28.11	-16.00	757.79	757.81
Bk. N. Abut.	2163+32.53	-16.00	757.77	757.79

GIRDER 9

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Bk. S. Abut.	2160+54.99	-10.00	758.52	758.54
CL Brg. S. Abut.	2160+59.41	-10.00	758.52	758.54
A	2160+69.41	-10.00	758.52	758.59
B	2160+79.41	-10.00	758.52	758.63
C	2160+89.41	-10.00	758.52	758.65
D	2160+99.41	-10.00	758.51	758.65
E	2161+09.41	-10.00	758.51	758.65
F	2161+19.41	-10.00	758.50	758.61
G	2161+29.41	-10.00	758.49	758.57
H	2161+39.41	-10.00	758.47	758.52
CL Brg. Pier 1	2161+51.64	-10.00	758.46	758.48
I	2161+61.64	-10.00	758.44	758.45
J	2161+71.64	-10.00	758.42	758.43
K	2161+81.64	-10.00	758.40	758.41
L	2161+91.64	-10.00	758.38	758.39
M	2162+01.64	-10.00	758.36	758.37
N	2162+11.64	-10.00	758.33	758.34
O	2162+21.64	-10.00	758.31	758.32
P	2162+31.64	-10.00	758.28	758.29
CL Brg. Pier 2	2162+44.80	-10.00	758.24	758.26
Q	2162+54.80	-10.00	758.20	758.25
R	2162+64.80	-10.00	758.17	758.25
S	2162+74.80	-10.00	758.13	758.24
T	2162+84.80	-10.00	758.09	758.22
U	2162+94.80	-10.00	758.05	758.19
V	2163+04.80	-10.00	758.01	758.15
W	2163+14.80	-10.00	757.97	758.09
X	2163+24.80	-10.00	757.92	758.00
CL Brg. N. Abut.	2163+37.03	-10.00	757.86	757.88
Bk. N. Abut.	2163+41.45	-10.00	757.84	757.86

GIRDER 10

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Bk. S. Abut.	2160+63.91	-4.00	758.61	758.63
CL Brg. S. Abut.	2160+68.33	-4.00	758.61	758.63
A	2160+78.33	-4.00	758.61	758.68
B	2160+88.33	-4.00	758.61	758.72
C	2160+98.33	-4.00	758.60	758.73
D	2161+08.33	-4.00	758.60	758.74
E	2161+18.33	-4.00	758.59	758.73
F	2161+28.33	-4.00	758.58	758.69
G	2161+38.33	-4.00	758.57	758.65
H	2161+48.33	-4.00	758.55	758.60
CL Brg. Pier 1	2161+60.56	-4.00	758.53	758.55
I	2161+70.56	-4.00	758.52	758.53
J	2161+80.56	-4.00	758.50	758.51
K	2161+90.56	-4.00	758.47	758.48
L	2162+00.56	-4.00	758.45	758.46
M	2162+10.56	-4.00	758.43	758.44
N	2162+20.56	-4.00	758.40	758.41
O	2162+30.56	-4.00	758.37	758.38
P	2162+40.56	-4.00	758.34	758.35
CL Brg. Pier 2	2162+53.72	-4.00	758.30	758.32
Q	2162+63.72	-4.00	758.26	758.31
R	2162+73.72	-4.00	758.23	758.31
S	2162+83.72	-4.00	758.19	758.30
T	2162+93.72	-4.00	758.15	758.28
U	2163+03.72	-4.00	758.10	758.24
V	2163+13.72	-4.00	758.06	758.20
W	2163+23.72	-4.00	758.01	758.13
X	2163+33.72	-4.00	757.97	758.05
CL Brg. N. Abut.	2163+45.95	-4.00	757.91	757.93
Bk. N. Abut.	2163+50.37	-4.00	757.88	757.90

STAGE CONSTRUCTION LINE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Bk. S. Abut.	2160+67.62	-1.50	758.65	758.67
CL Brg. S. Abut.	2160+72.04	-1.50	758.65	758.67
A	2160+82.04	-1.50	758.65	758.72
B	2160+92.04	-1.50	758.64	758.75
C	2161+02.04	-1.50	758.64	758.77
D	2161+12.04	-1.50	758.63	758.77
E	2161+22.04	-1.50	758.62	758.76
F	2161+32.04	-1.50	758.61	758.72
G	2161+42.04	-1.50	758.60	758.68
H	2161+52.04	-1.50	758.58	758.63
CL Brg. Pier 1	2161+64.27	-1.50	758.56	758.58
I	2161+74.27	-1.50	758.55	758.56
J	2161+84.27	-1.50	758.53	758.54
K	2161+94.27	-1.50	758.50	758.51
L	2162+04.27	-1.50	758.48	758.49
M	2162+14.27	-1.50	758.45	758.46
N	2162+24.27	-1.50	758.43	758.44
O	2162+34.27	-1.50	758.40	758.41
P	2162+44.27	-1.50	758.37	758.38
CL Brg. Pier 2	2162+57.43	-1.50	758.32	758.34
Q	2162+67.43	-1.50	758.29	758.34
R	2162+77.43	-1.50	758.25	758.33
S	2162+87.43	-1.50	758.21	758.32
T	2162+97.43	-1.50	758.17	758.30
U	2163+07.43	-1.50	758.13	758.27
V	2163+17.43	-1.50	758.08	758.22
W	2163+27.43	-1.50	758.03	758.15
X	2163+37.43	-1.50	757.99	758.07
CL Brg. N. Abut.	2163+49.66	-1.50	757.92	757.94
Bk. N. Abut.	2163+54.08	-1.50	757.90	757.92

℄ NB I-172 & PGL

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Bk. S. Abut.	2160+69.85	0.00	758.67	758.69
CL Brg. S. Abut.	2160+74.27	0.00	758.67	758.69
A	2160+84.27	0.00	758.67	758.74
B	2160+94.27	0.00	758.66	758.77
C	2161+04.27	0.00	758.66	758.79
D	2161+14.27	0.00	758.65	758.79
E	2161+24.27	0.00	758.64	758.78
F	2161+34.27	0.00	758.63	758.74
G	2161+44.27	0.00	758.62	758.70
H	2161+54.27	0.00	758.60	758.65
CL Brg. Pier 1	2161+66.50	0.00	758.58	758.60
I	2161+76.50	0.00	758.56	758.57
J	2161+86.50	0.00	758.54	758.55
K	2161+96.50	0.00	758.52	758.53
L	2162+06.50	0.00	758.50	758.51
M	2162+16.50	0.00	758.47	758.48
N	2162+26.50	0.00	758.44	758.45
O	2162+36.50	0.00	758.41	758.42
P	2162+46.50	0.00	758.38	758.39
CL Brg. Pier 2	2162+59.66	0.00	758.34	758.36
Q	2162+69.66	0.00	758.30	758.35
R	2162+79.66	0.00	758.26	758.34
S	2162+89.66	0.00	758.22	758.33
T	2162+99.66	0.00	758.18	758.31
U	2163+09.66	0.00	758.14	758.28
V	2163+19.66	0.00	758.09	758.23
W	2163+29.66	0.00	758.05	758.17
X	2163+39.66	0.00	758.00	758.08
CL Brg. N. Abut.	2163+51.89	0.00	757.93	757.95
Bk. N. Abut.	2163+56.31	0.00	757.91	757.93

GIRDER 11

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Bk. S. Abut.	2160+72.82	2.00	758.64	758.66
CL Brg. S. Abut.	2160+77.24	2.00	758.64	758.66
A	2160+87.24	2.00	758.64	758.71
B	2160+97.24	2.00	758.63	758.74
C	2161+07.24	2.00	758.63	758.76
D	2161+17.24	2.00	758.62	758.76
E	2161+27.24	2.00	758.61	758.75
F	2161+37.24	2.00	758.60	758.71
G	2161+47.24	2.00	758.58	758.66
H	2161+57.24	2.00	758.57	758.62
CL Brg. Pier 1	2161+69.47	2.00	758.55	758.57
I	2161+79.47	2.00	758.53	758.54
J	2161+89.47	2.00	758.51	758.52
K	2161+99.47	2.00	758.48	758.49
L	2162+09.47	2.00	758.46	758.47
M	2162+19.47	2.00	758.43	758.44
N	2162+29.47	2.00	758.40	758.41
O	2162+39.47	2.00	758.37	758.38
P	2162+49.47	2.00	758.34	758.35
CL Brg. Pier 2	2162+62.63	2.00	758.30	758.32
Q	2162+72.63	2.00	758.26	758.31
R	2162+82.63	2.00	758.22	758.30
S	2162+92.63	2.00	758.18	758.29
T	2163+02.63	2.00	758.14	758.27
U	2163+12.63	2.00	758.10	758.24
V	2163+22.63	2.00	758.05	758.19
W	2163+32.63	2.00	758.00	758.12
X	2163+42.63	2.00	757.95	758.03
CL Brg. N. Abut.	2163+54.86	2.00	757.89	757.91
Bk. N. Abut.	2163+59.28	2.00	757.87	757.89

FILE NAME: L:\FuhmannEng\24007089-00_I-172\708900\CADD Data\Bridge\CADD Sheets\D672250 - 010 - Top of Deck Elevations - NB - II.dgn

CMT
License No. 184-000613 © Copyright CMT, Inc.

USER NAME = vtan	DESIGNED - VT	REVISED -	
	DRAWN - VT	REVISED -	
	CHECKED - DAC	REVISED -	
PLOT DATE = 5/20/2026	DATE - 8/18/2026	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF DECK ELEVATIONS - NB - II
STRUCTURE NO. 001-0050 (SB) & 001-0051 (NB)

SCALE: | SHEET 10 OF 41 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-6VBR	ADAMS	113	44
		CONTRACT NO. 72250		
	ILLINOIS	FED. AID PROJECT		

GIRDER 12

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Bk. S. Abut.	2160+81.74	8.00	758.55	758.57
CL Brg. S. Abut.	2160+86.16	8.00	758.55	758.57
A	2160+96.16	8.00	758.54	758.61
B	2161+06.16	8.00	758.54	758.65
C	2161+16.16	8.00	758.53	758.66
D	2161+26.16	8.00	758.52	758.66
E	2161+36.16	8.00	758.51	758.65
F	2161+46.16	8.00	758.50	758.61
G	2161+56.16	8.00	758.48	758.56
H	2161+66.16	8.00	758.46	758.51
CL Brg. Pier 1	2161+78.39	8.00	758.44	758.46
I	2161+88.39	8.00	758.42	758.43
J	2161+98.39	8.00	758.40	758.41
K	2162+08.39	8.00	758.37	758.38
L	2162+18.39	8.00	758.35	758.36
M	2162+28.39	8.00	758.32	758.33
N	2162+38.39	8.00	758.29	758.30
O	2162+48.39	8.00	758.25	758.26
P	2162+58.39	8.00	758.22	758.23
CL Brg. Pier 2	2162+71.55	8.00	758.17	758.19
Q	2162+81.55	8.00	758.14	758.19
R	2162+91.55	8.00	758.10	758.18
S	2163+01.55	8.00	758.05	758.16
T	2163+11.55	8.00	758.01	758.14
U	2163+21.55	8.00	757.96	758.10
V	2163+31.55	8.00	757.92	758.06
W	2163+41.55	8.00	757.87	757.99
X	2163+51.55	8.00	757.82	757.90
CL Brg. N. Abut.	2163+63.78	8.00	757.75	757.77
Bk. N. Abut.	2163+68.20	8.00	757.73	757.75

GIRDER 13

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Bk. S. Abut.	2160+90.66	14.00	758.45	758.47
CL Brg. S. Abut.	2160+95.08	14.00	758.44	758.46
A	2161+05.08	14.00	758.44	758.51
B	2161+15.08	14.00	758.43	758.54
C	2161+25.08	14.00	758.42	758.55
D	2161+35.08	14.00	758.41	758.55
E	2161+45.08	14.00	758.40	758.54
F	2161+55.08	14.00	758.38	758.49
G	2161+65.08	14.00	758.37	758.45
H	2161+75.08	14.00	758.35	758.40
CL Brg. Pier 1	2161+87.31	14.00	758.32	758.34
I	2161+97.31	14.00	758.30	758.31
J	2162+07.31	14.00	758.27	758.28
K	2162+17.31	14.00	758.25	758.26
L	2162+27.31	14.00	758.22	758.23
M	2162+37.31	14.00	758.19	758.20
N	2162+47.31	14.00	758.16	758.17
O	2162+57.31	14.00	758.12	758.13
P	2162+67.31	14.00	758.09	758.10
CL Brg. Pier 2	2162+80.47	14.00	758.04	758.06
Q	2162+90.47	14.00	758.00	758.05
R	2163+00.47	14.00	757.96	758.04
S	2163+10.47	14.00	757.91	758.02
T	2163+20.47	14.00	757.87	758.00
U	2163+30.47	14.00	757.82	757.96
V	2163+40.47	14.00	757.77	757.91
W	2163+50.47	14.00	757.72	757.84
X	2163+60.47	14.00	757.67	757.75
CL Brg. N. Abut.	2163+72.70	14.00	757.60	757.62
Bk. N. Abut.	2163+77.12	14.00	757.58	757.60

GIRDER 14

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Bk. S. Abut.	2160+99.57	20.00	758.32	758.34
CL Brg. S. Abut.	2161+03.99	20.00	758.32	758.34
A	2161+13.99	20.00	758.31	758.38
B	2161+23.99	20.00	758.30	758.41
C	2161+33.99	20.00	758.29	758.43
D	2161+43.99	20.00	758.28	758.43
E	2161+53.99	20.00	758.26	758.40
F	2161+63.99	20.00	758.25	758.37
G	2161+73.99	20.00	758.23	758.32
H	2161+83.99	20.00	758.21	758.26
CL Brg. Pier 1	2161+96.22	20.00	758.18	758.20
I	2162+06.22	20.00	758.16	758.17
J	2162+16.22	20.00	758.13	758.14
K	2162+26.22	20.00	758.10	758.11
L	2162+36.22	20.00	758.07	758.08
M	2162+46.22	20.00	758.04	758.05
N	2162+56.22	20.00	758.01	758.02
O	2162+66.22	20.00	757.97	757.98
P	2162+76.22	20.00	757.94	757.95
CL Brg. Pier 2	2162+89.38	20.00	757.88	757.90
Q	2162+99.38	20.00	757.84	757.89
R	2163+09.38	20.00	757.80	757.88
S	2163+19.38	20.00	757.75	757.86
T	2163+29.38	20.00	757.71	757.85
U	2163+39.38	20.00	757.66	757.81
V	2163+49.38	20.00	757.61	757.75
W	2163+59.38	20.00	757.56	757.68
X	2163+69.38	20.00	757.50	757.58
CL Brg. N. Abut.	2163+81.61	20.00	757.43	757.45
Bk. N. Abut.	2163+86.03	20.00	757.41	757.43

FILE NAME: L:\FurhmannEng\240077089-00_I-172\708900\CADD Data\Bridge\CADD Sheets\D6722250 - 011 - Top of Deck Elevations - NB - III.dgn

CMT
License No. 184-000613
© Copyright CMT, Inc.

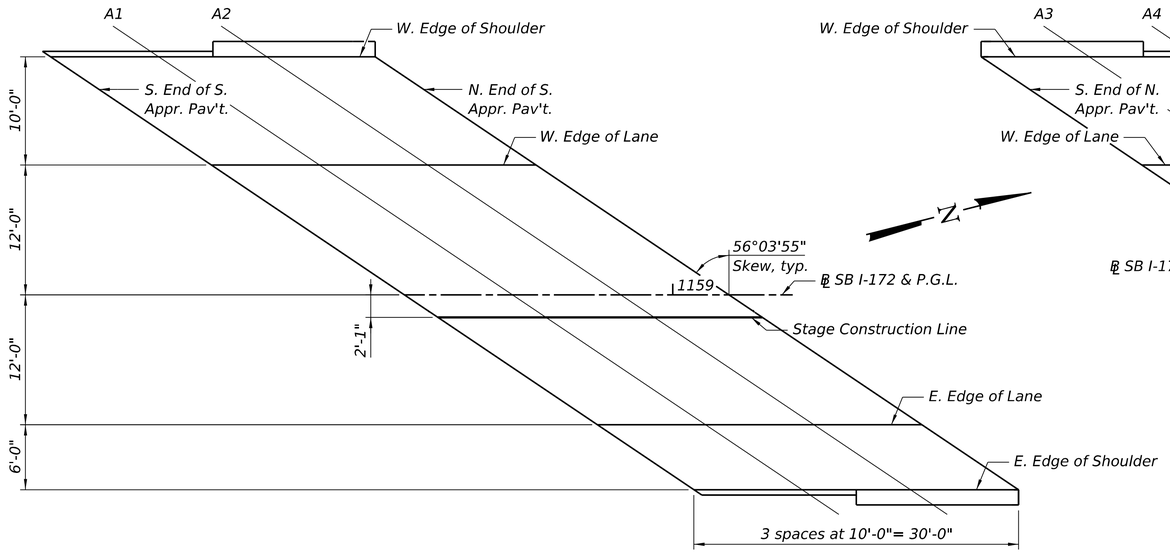
USER NAME = vtan	DESIGNED - VT	REVISED -	
	DRAWN - VT	REVISED -	
	CHECKED - DAC	REVISED -	
PLOT DATE = 5/20/2026	DATE - 8/18/2026	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

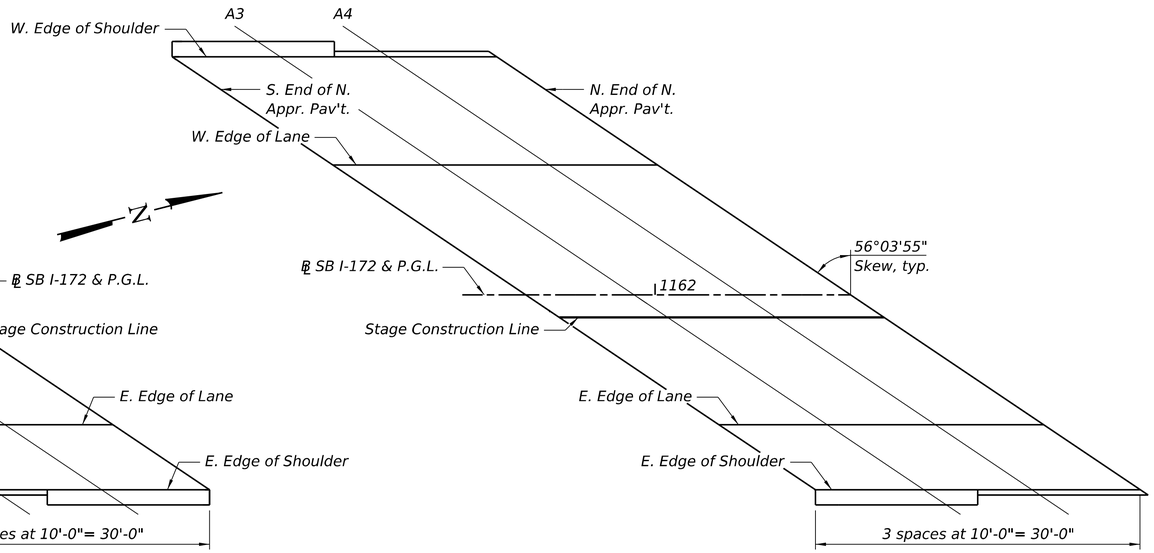
TOP OF DECK ELEVATIONS - NB - III
STRUCTURE NO. 001-0050 (SB) & 001-0051 (NB)

SCALE: | SHEET 11 OF 41 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-6VBR	ADAMS	113	45
		CONTRACT NO. 72250		
	ILLINOIS	FED. AID PROJECT		



SOUTH APPROACH SLAB PLAN - SB



NORTH APPROACH SLAB PLAN - SB

W. EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
S. End S. Appr. Pav't	1158+42.49	-22.00	757.64	757.66
A1	1158+52.49	-22.00	757.69	757.71
A2	1158+62.49	-22.00	757.74	757.76
N. End S. Appr. Pav't	1158+72.49	-22.00	757.78	757.80

W. EDGE OF LANE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
S. End S. Appr. Pav't	1158+57.36	-12.00	757.91	757.93
A1	1158+67.36	-12.00	757.96	757.98
A2	1158+77.36	-12.00	758.00	758.02
N. End S. Appr. Pav't	1158+87.36	-12.00	758.04	758.06

W. EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
S. End N. Appr. Pav't	1161+55.36	-22.00	758.25	758.27
A3	1161+65.36	-22.00	758.24	758.26
A4	1161+75.36	-22.00	758.23	758.25
N. End N. Appr. Pav't	1161+85.36	-22.00	758.21	758.23

W. EDGE OF LANE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
S. End N. Appr. Pav't	1161+70.23	-12.00	758.43	758.45
A3	1161+80.23	-12.00	758.42	758.44
A4	1161+90.23	-12.00	758.40	758.42
N. End N. Appr. Pav't	1162+00.23	-12.00	758.39	758.41

℄ SB I-172 & P.G.L.

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
S. End S. Appr. Pav't	1158+75.19	0.00	758.17	758.19
A1	1158+85.19	0.00	758.21	758.23
A2	1158+95.19	0.00	758.26	758.28
N. End S. Appr. Pav't	1159+05.19	0.00	758.29	758.31

STAGE CONSTRUCTION LINE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
S. End S. Appr. Pav't	1158+78.29	2.08	758.15	758.17
A1	1158+88.29	2.08	758.20	758.22
A2	1158+98.29	2.08	758.24	758.26
N. End S. Appr. Pav't	1159+08.29	2.08	758.27	758.29

℄ SB I-172 & P.G.L.

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
S. End N. Appr. Pav't	1161+88.06	0.00	758.59	758.61
A3	1161+98.06	0.00	758.57	758.59
A4	1162+08.06	0.00	758.55	758.57
N. End N. Appr. Pav't	1162+18.06	0.00	758.53	758.55

STAGE CONSTRUCTION LINE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
S. End N. Appr. Pav't	1161+91.16	2.08	758.55	758.57
A3	1162+01.16	2.08	758.53	758.55
A4	1162+11.16	2.08	758.51	758.53
N. End N. Appr. Pav't	1162+21.16	2.08	758.49	758.51

E. EDGE OF LANE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
S. End S. Appr. Pav't	1158+93.02	12.00	758.07	758.09
A1	1159+03.02	12.00	758.11	758.13
A2	1159+13.02	12.00	758.14	758.16
N. End S. Appr. Pav't	1159+23.02	12.00	758.18	758.20

E. EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
S. End S. Appr. Pav't	1159+01.94	18.00	757.98	758.00
A1	1159+11.94	18.00	758.02	758.04
A2	1159+21.94	18.00	758.05	758.07
N. End S. Appr. Pav't	1159+31.94	18.00	758.09	758.11

E. EDGE OF LANE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
S. End N. Appr. Pav't	1162+05.89	12.00	758.37	758.39
A3	1162+15.89	12.00	758.35	758.37
A4	1162+25.89	12.00	758.33	758.35
N. End N. Appr. Pav't	1162+35.89	12.00	758.30	758.32

E. EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
S. End N. Appr. Pav't	1162+14.81	18.00	758.24	758.26
A3	1162+24.81	18.00	758.21	758.23
A4	1162+34.81	18.00	758.19	758.21
N. End N. Appr. Pav't	1162+44.81	18.00	758.16	758.18

FILE NAME: L:\FurhmannEng\24007089-00_I-172\708900\CADD Data\Bridge\CADD Sheets\D672250 - 012 - Top of SB Approach Slab Elevations.dgn

CMT
License No. 184-000613
© Copyright CMT, Inc.

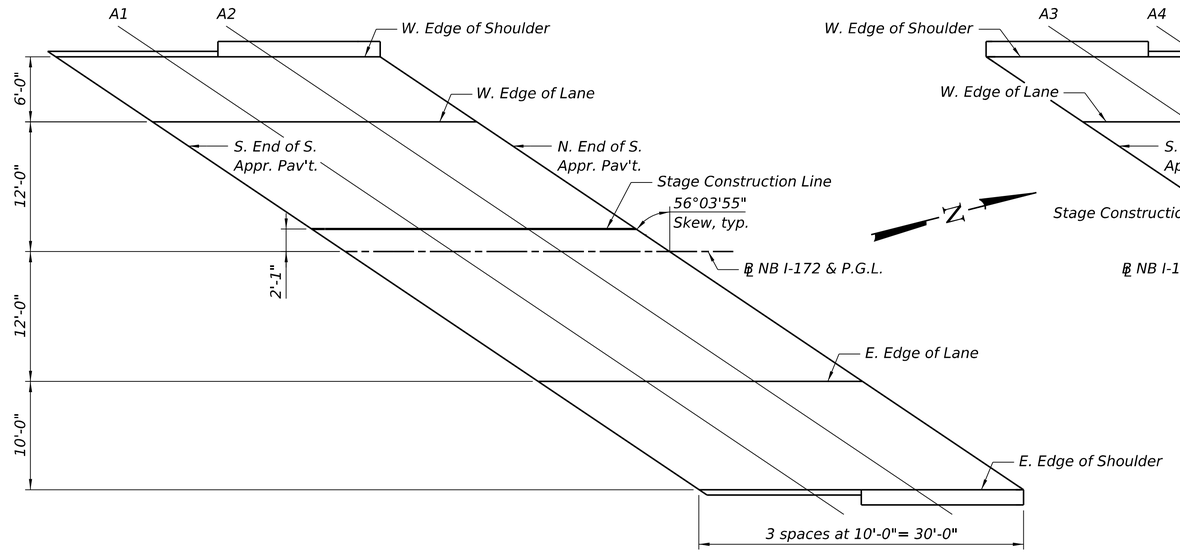
USER NAME = vtan	DESIGNED - VT	REVISED -	
	DRAWN - VT	REVISED -	
	CHECKED - DAC	REVISED -	
PLOT DATE = 5/20/2026	DATE - 8/18/2026	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

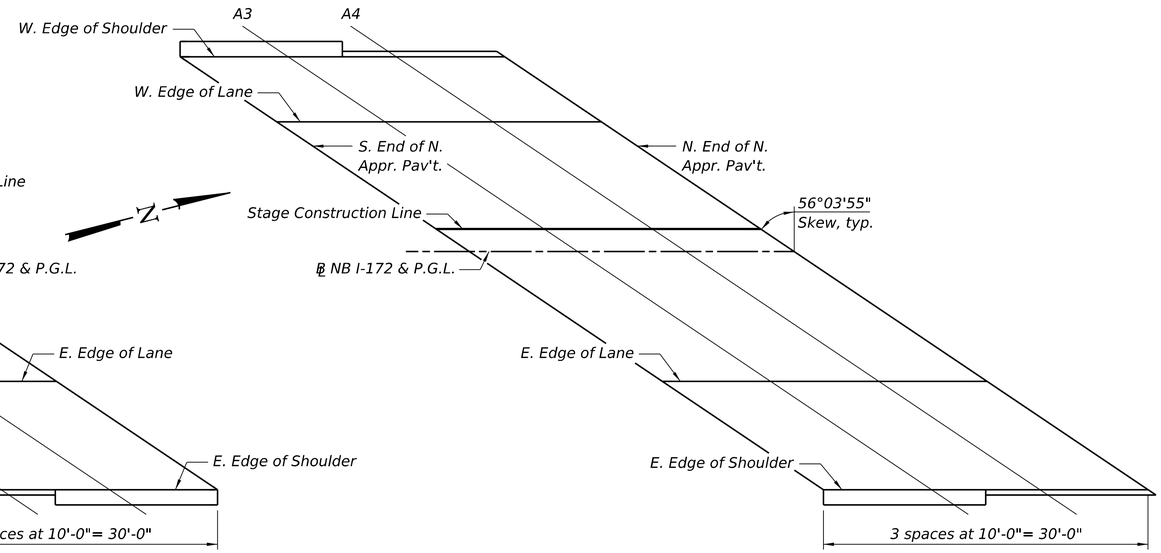
TOP OF SB APPROACH SLAB ELEVATIONS
STRUCTURE NO. 001-0050 (SB) & 001-0051 (NB)

SCALE: | SHEET 12 OF 41 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-6VBR	ADAMS	113	46
		CONTRACT NO. 72250		
	ILLINOIS	FED. AID PROJECT		



SOUTH APPROACH SLAB PLAN - NB



NORTH APPROACH SLAB PLAN - NB

W. EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
S. End S. Appr. Pav't	2160+14.89	-18.00	758.34	758.36
A1	2160+24.89	-18.00	758.35	758.37
A2	2160+34.89	-18.00	758.36	758.38
N. End S. Appr. Pav't	2160+44.89	-18.00	758.36	758.38

W. EDGE OF LANE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
S. End S. Appr. Pav't	2160+23.81	-12.00	758.47	758.49
A1	2160+33.81	-12.00	758.48	758.50
A2	2160+43.81	-12.00	758.48	758.50
N. End S. Appr. Pav't	2160+53.81	-12.00	758.49	758.51

W. EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
S. End N. Appr. Pav't	2163+27.77	-18.00	757.76	757.78
A3	2163+37.77	-18.00	757.71	757.73
A4	2163+47.77	-18.00	757.66	757.68
N. End N. Appr. Pav't	2163+57.77	-18.00	757.60	757.62

W. EDGE OF LANE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
S. End N. Appr. Pav't	2163+36.69	-12.00	757.83	757.85
A3	2163+46.69	-12.00	757.78	757.80
A4	2163+56.69	-12.00	757.73	757.75
N. End N. Appr. Pav't	2163+66.69	-12.00	757.68	757.70

STAGE CONSTRUCTION LINE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
S. End S. Appr. Pav't	2160+38.54	-2.08	758.63	758.65
A1	2160+48.54	-2.08	758.63	758.65
A2	2160+58.54	-2.08	758.64	758.66
N. End S. Appr. Pav't	2160+68.54	-2.08	758.64	758.66

℄ NB I-172 & P.G.L.

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
S. End S. Appr. Pav't	2160+41.64	0.00	758.66	758.68
A1	2160+51.64	0.00	758.67	758.69
A2	2160+61.64	0.00	758.67	758.69
N. End S. Appr. Pav't	2160+71.64	0.00	758.67	758.69

STAGE CONSTRUCTION LINE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
S. End N. Appr. Pav't	2163+51.42	-2.08	757.91	757.93
A3	2163+61.42	-2.08	757.85	757.87
A4	2163+71.42	-2.08	757.80	757.82
N. End N. Appr. Pav't	2163+81.42	-2.08	757.74	757.76

℄ NB I-172 & P.G.L.

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
S. End N. Appr. Pav't	2163+54.52	0.00	757.92	757.94
A3	2163+64.52	0.00	757.87	757.89
A4	2163+74.52	0.00	757.81	757.83
N. End N. Appr. Pav't	2163+84.52	0.00	757.76	757.78

E. EDGE OF LANE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
S. End S. Appr. Pav't	2160+59.47	12.00	758.49	758.51
A1	2160+69.47	12.00	758.49	758.51
A2	2160+79.47	12.00	758.49	758.51
N. End S. Appr. Pav't	2160+89.47	12.00	758.49	758.51

E. EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
S. End S. Appr. Pav't	2160+74.34	22.00	758.29	758.31
A1	2160+84.34	22.00	758.29	758.31
A2	2160+94.34	22.00	758.28	758.30
N. End S. Appr. Pav't	2161+04.34	22.00	758.28	758.30

E. EDGE OF LANE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
S. End N. Appr. Pav't	2163+72.35	12.00	757.64	757.66
A3	2163+82.35	12.00	757.59	757.61
A4	2163+92.35	12.00	757.53	757.55
N. End N. Appr. Pav't	2164+02.35	12.00	757.47	757.49

E. EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
S. End N. Appr. Pav't	2163+87.22	22.00	757.36	757.38
A3	2163+97.22	22.00	757.30	757.32
A4	2164+07.22	22.00	757.24	757.26
N. End N. Appr. Pav't	2164+17.22	22.00	757.18	757.20

FILE NAME: L:\FurhmannEng\24007089-00_I-172\7089000\CADD Data\Bridge\CADD Sheets\D672250 - 013 - Top of NB Approach Slab Elevations.dgn

CMT
License No. 184-000613
© Copyright CMT, Inc.

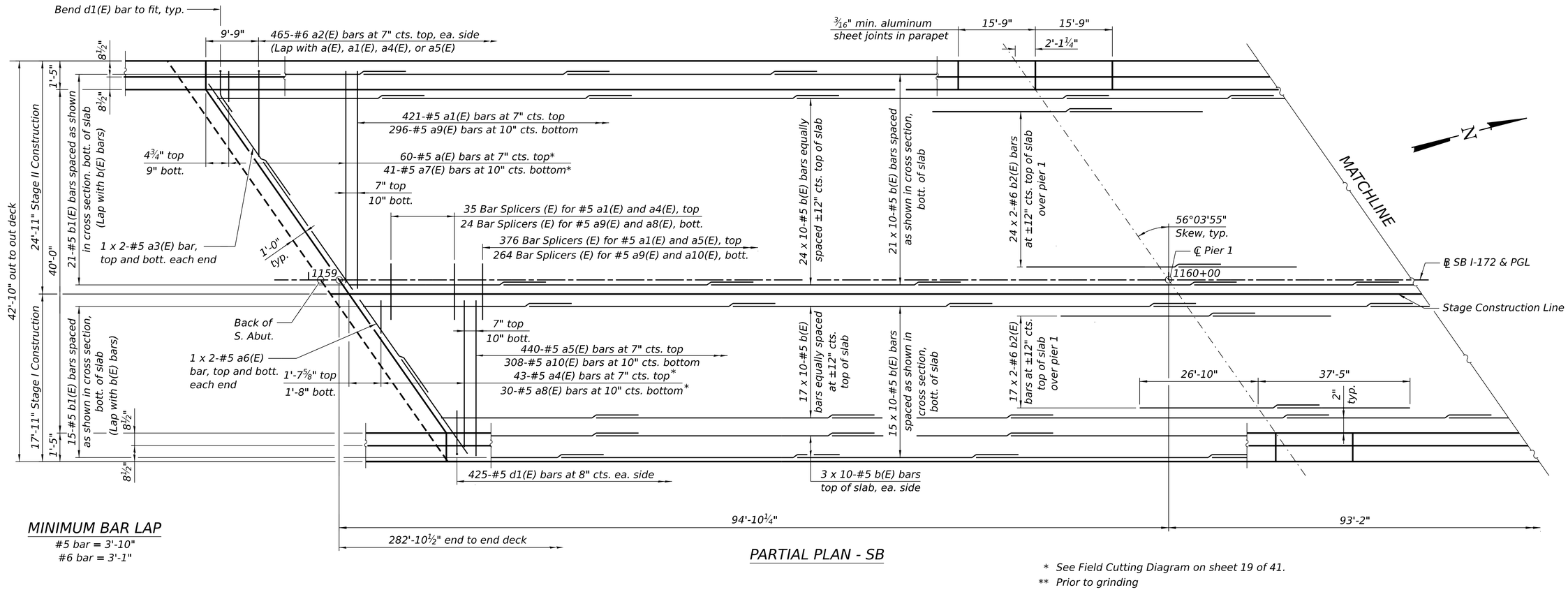
USER NAME = vtan	DESIGNED - VT	REVISED -	
	DRAWN - VT	REVISED -	
	CHECKED - DAC	REVISED -	
PLOT DATE = 6/7/2026	DATE - 8/18/2026	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF NB APPROACH SLAB ELEVATIONS
STRUCTURE NO. 001-0050 (SB) & 001-0051 (NB)

SCALE: | SHEET 13 OF 41 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-6VBR	ADAMS	113	47
		CONTRACT NO. 72250		
	ILLINOIS	FED. AID PROJECT		

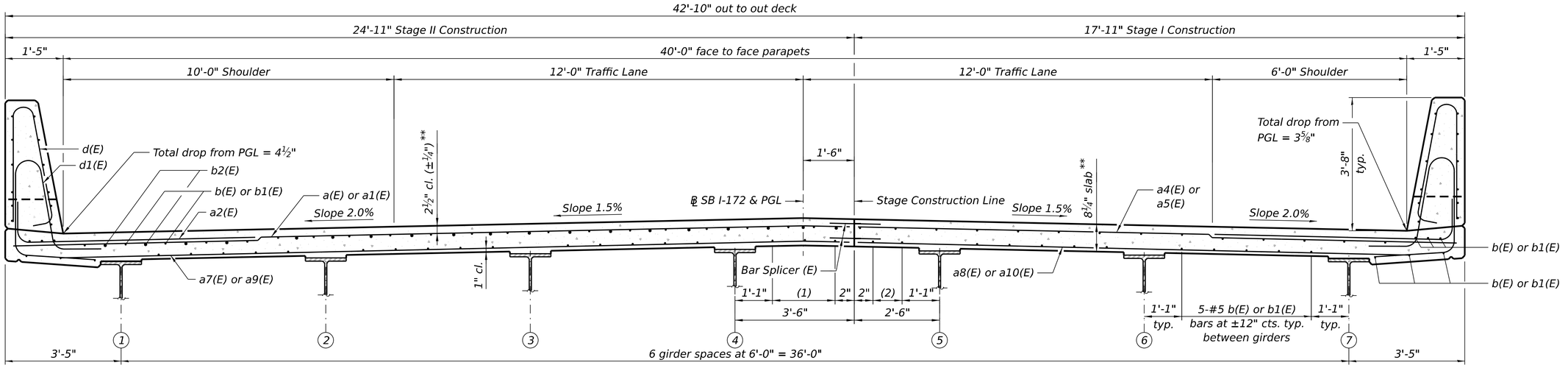


MINIMUM BAR LAP

#5 bar = 3'-10"
#6 bar = 3'-1"

PARTIAL PLAN - SB

* See Field Cutting Diagram on sheet 19 of 41.
** Prior to grinding



NEAR PIER

NEAR MIDSPAN

CROSS SECTION

(Looking North)

(1) 3-#5 b(E) or b1(E) bars at 13 1/2" cts.
(2) 2-#5 b(E) or b1(E) bars at 15" cts.

Notes:
1. See sheets 18 and 19 of 41 for superstructure details and Bill of Material.
2. Bars indicated thus 3 x 10-#5 etc. indicates 3 lines of bars with 10 lengths per line.
3. See sheet 27 of 41 for girder numbering on SB and NB bridges.
4. The total superstructure depth is 50", not accounting for the deck cross slope.

FILE NAME: L:\FurhmannEng\24007089-00_I-172\708900\CADD Data\Bridge\CADD Sheets\D672250 - 014 - Superstructure - SB - I.dgn

CMT
License No. 184-000613
© Copyright CMT, Inc.

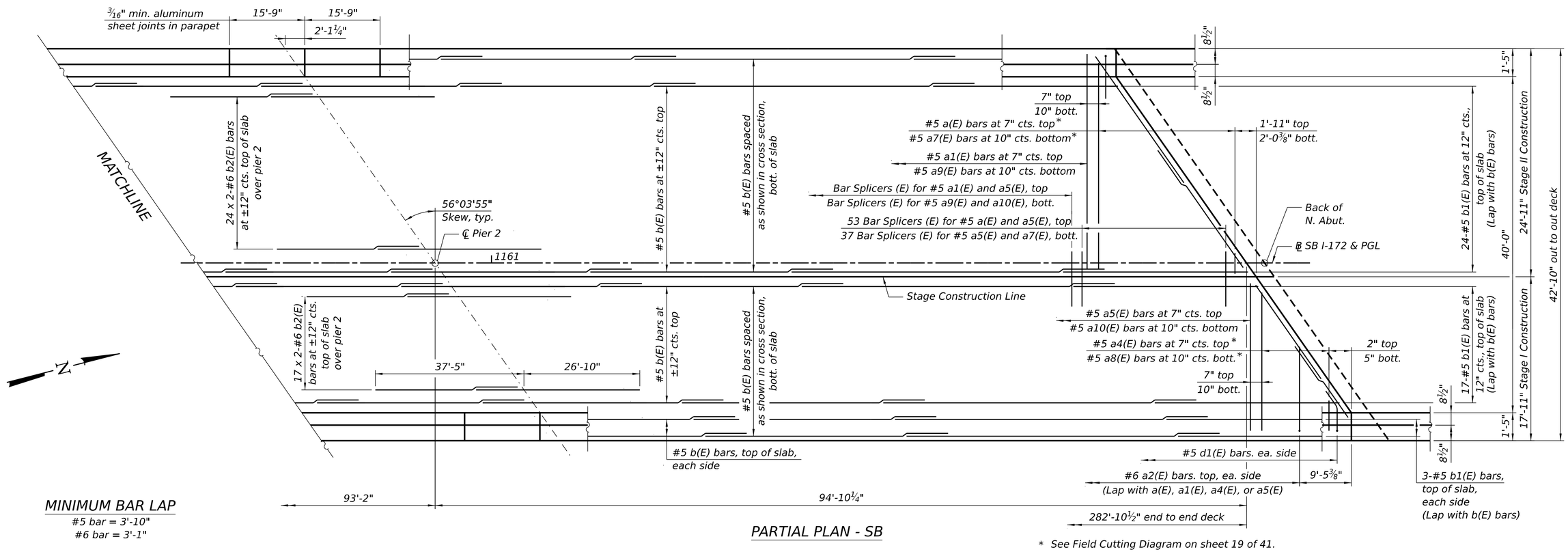
USER NAME = vtan	DESIGNED - VT	REVISED -
	DRAWN - VT	REVISED -
	CHECKED - DAC	REVISED -
PLOT DATE = 5/26/2026	DATE - 8/18/2026	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE - SB - I
STRUCTURE NO. 001-0050 (SB) & 001-0051 (NB)

SCALE: | SHEET 14 OF 41 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-6VBR	ADAMS	113	48
		CONTRACT NO. 72250		
	ILLINOIS	FED. AID PROJECT		



MINIMUM BAR LAP

#5 bar = 3'-10"
#6 bar = 3'-1"

PARTIAL PLAN - SB

* See Field Cutting Diagram on sheet 19 of 41.

Notes:
1. See sheet 18 and 19 of 41 for superstructure details and Bill of Material.
2. Bars indicated thus 17 x 2-#5 etc. indicates 17 lines of bars with 2 lengths per line.

FILE NAME: L:\FurmannEng\24007089-00_I-172\708900\CADD Data\BridgeICADD Sheets\D6772250 - 015 - Superstructure - SB - II.dgn

CMT
License No. 184-000613 © Copyright CMT, Inc.

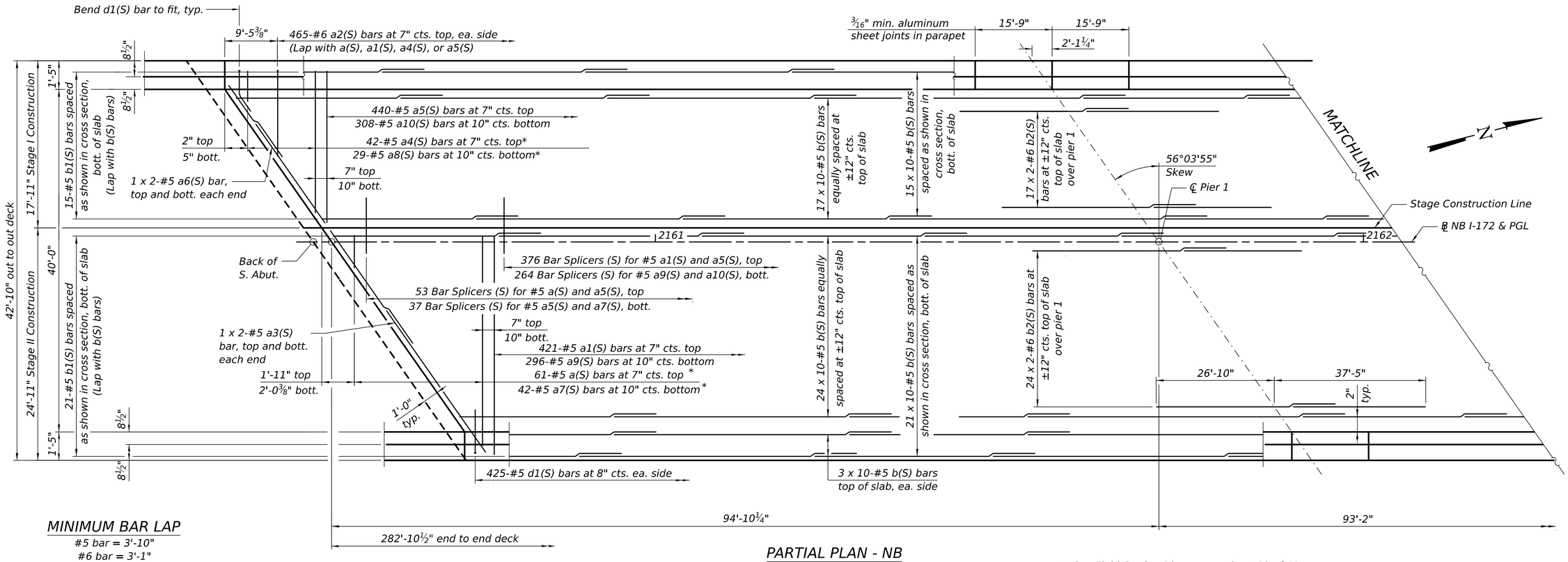
USER NAME = vtan	DESIGNED - VT	REVISED -
	DRAWN - VT	REVISED -
	CHECKED - DAC	REVISED -
PLOT DATE = 5/29/2026	DATE - 8/18/2026	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE - SB - II
STRUCTURE NO. 001-0050 (SB) & 001-0051 (NB)

SCALE: | SHEET 15 OF 41 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-6VBR	ADAMS	113	49
		CONTRACT NO. 72250		
	ILLINOIS	FED. AID PROJECT		

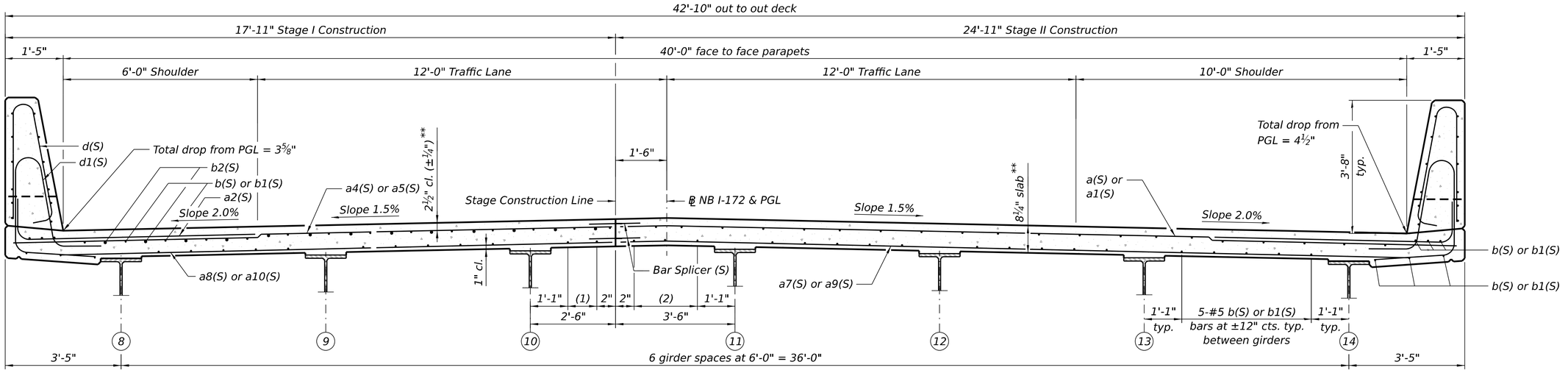


MINIMUM BAR LAP

#5 bar = 3'-10"
#6 bar = 3'-1"

PARTIAL PLAN - NB

* See Field Cutting Diagram on sheet 19 of 41.
** Prior to grinding



NEAR PIER

NEAR MIDSPAN

(1) 2-#5 b(S) or b1(S) bars at 15" cts.
(2) 3-#5 b(S) or b1(S) bars at 13½" cts.

CROSS SECTION

(Looking North)

Notes:
1. See sheet 18 and 19 of 41 for superstructure details and Bill of Material.
2. Bars indicated thus 3 x 10-#5 etc. indicates 3 lines of bars with 10 lengths per line.
3. See sheet 27 of 41 for girder numbering on SB and NB bridges.
4. The total superstructure depth is 50", not accounting for the deck cross slope.

FILE NAME: L:\FurhmannEng\24007089-00 I-172\708900\CADD Data\Bridge\CADD Sheets\D672250 - 016 - Superstructure - NB - I.dgn

CMT
License No. 184-000613 © Copyright CMT, Inc.

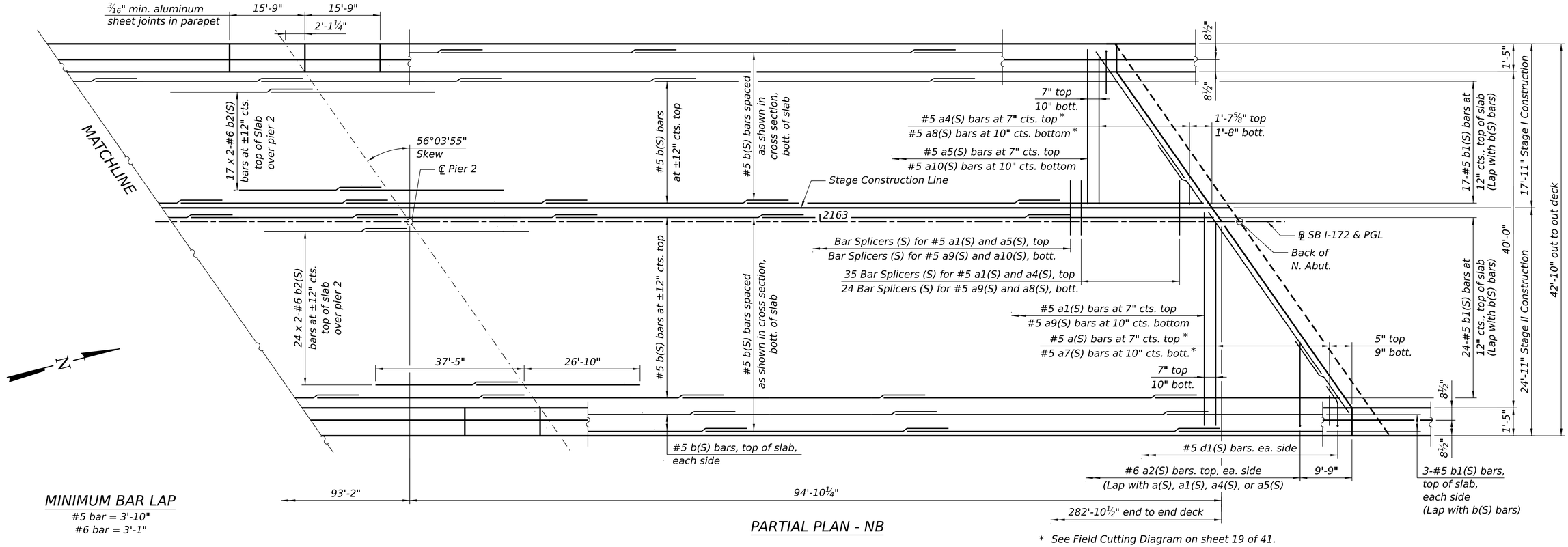
USER NAME = vtan	DESIGNED - VT	REVISED -
	DRAWN - VT	REVISED -
	CHECKED - DAC	REVISED -
PLOT DATE = 5/26/2026	DATE - 8/18/2026	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE - NB - I
STRUCTURE NO. 001-0050 (SB) & 001-0051 (NB)

SCALE: | SHEET 16 OF 41 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-6VBR	ADAMS	113	50
		CONTRACT NO. 72250		
	ILLINOIS	FED. AID PROJECT		



MINIMUM BAR LAP

#5 bar = 3'-10"
#6 bar = 3'-1"

PARTIAL PLAN - NB

* See Field Cutting Diagram on sheet 19 of 41.

Notes:
1. See sheet 18 and 19 of 41 for superstructure details and Bill of Material.
2. Bars indicated thus 17 x 2-#5 etc. indicates 17 lines of bars with 2 lengths per line.

FILE NAME: L:\FurhmannEng\24007089-00 I-172\708900\CADD Data\BridgeCADD Sheets\D6772250 - 017 - Superstructure - NB - II.dgn

CMT
License No. 184-000613 © Copyright CMT, Inc.

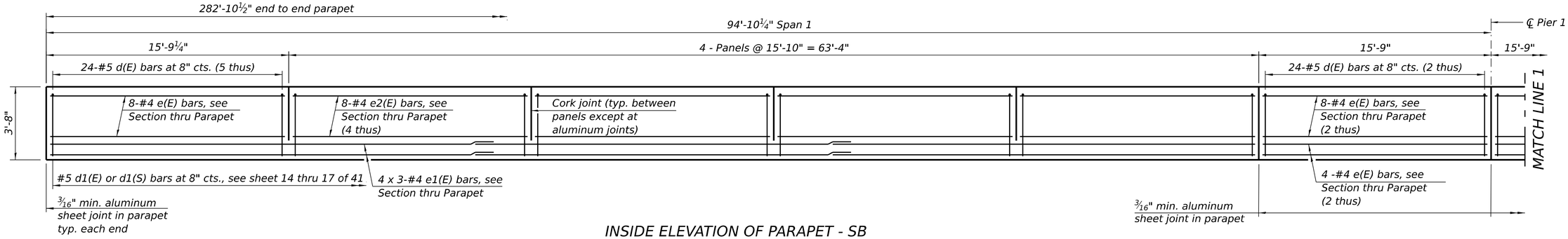
USER NAME = vtan	DESIGNED - VT	REVISED -	
	DRAWN - VT	REVISED -	
	CHECKED - DAC	REVISED -	
PLOT DATE = 5/26/2026	DATE - 8/18/2026	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE - NB - II
STRUCTURE NO. 001-0050 (SB) & 001-0051 (NB)

SCALE: | SHEET 17 OF 41 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-6VBR	ADAMS	113	51
		CONTRACT NO. 72250		
	ILLINOIS	FED. AID PROJECT		

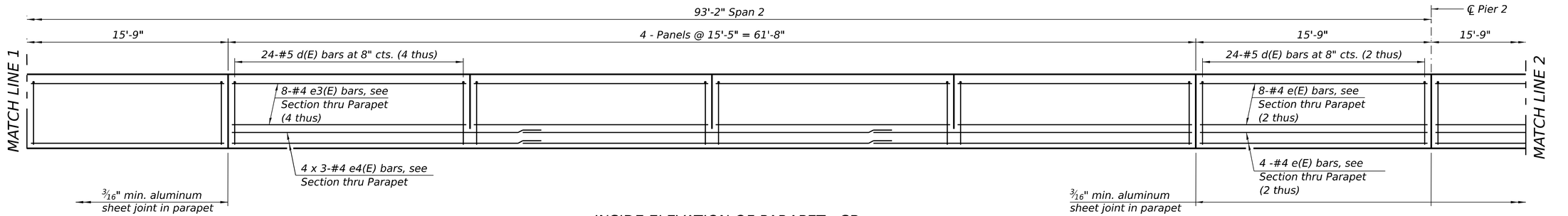


INSIDE ELEVATION OF PARAPET - SB

(All parapet reinforcement bars in the NB structure are to be stainless steel)

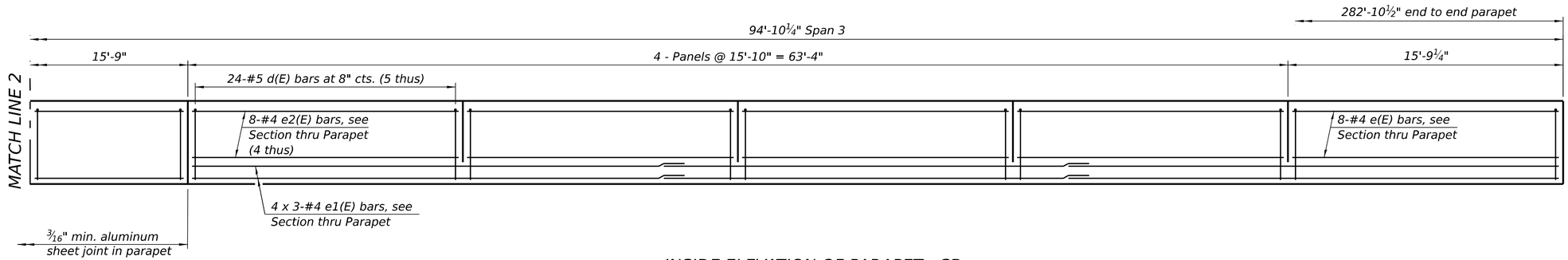
MINIMUM BAR LAP

#4 bar = 2'-2"



INSIDE ELEVATION OF PARAPET - SB

(All parapet reinforcement bars in the NB structure are to be stainless steel)



INSIDE ELEVATION OF PARAPET - SB

(All parapet reinforcement bars in the NB structure are to be stainless steel)

Notes:

1. *See sheet 19 of 41 for Section Thru Parapet.*
2. *All dimensions are along front face of parapets.*
3. *Bars indicated thus 4 x 3-#4 etc. indicates 4 lines of bars with 3 lengths per line.*

FILE NAME: L:\FurhmannEng\24007089-00_I-172\708900\CADD Data\Bridge\CADD Sheets\D672250 - 018 - Superstructure Details - I.dgn

CMT
License No. 184-000613
© Copyright CMT, Inc.

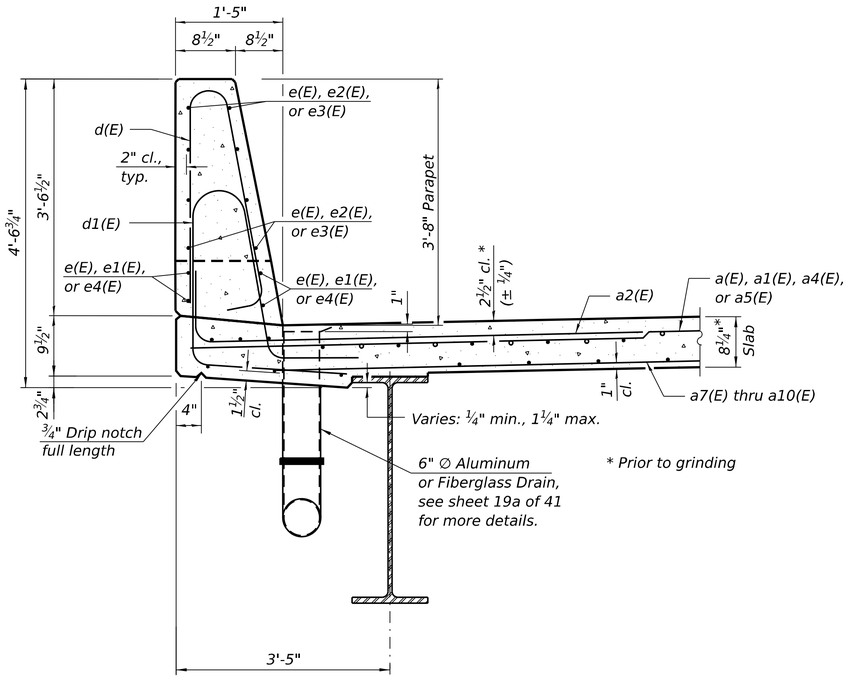
USER NAME = vtan	DESIGNED - VT	REVISED -
	DRAWN - VT	REVISED -
	CHECKED - DAC	REVISED -
PLOT DATE = 5/26/2026	DATE - 8/18/2026	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS - I
STRUCTURE NO. 001-0050 (SB) & 001-0051 (NB)

SCALE: | SHEET 18 OF 41 SHEETS | STA. | TO STA.

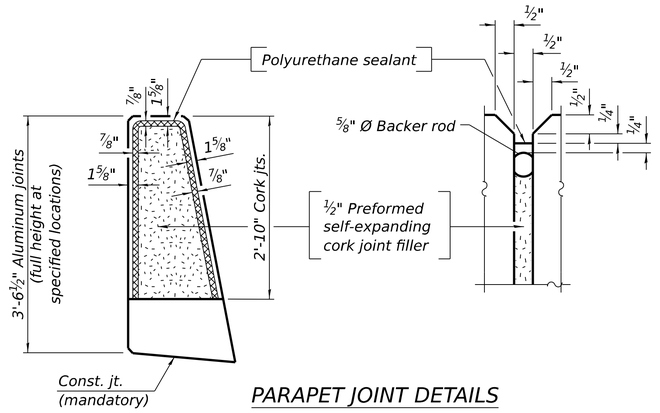
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-6VBR	ADAMS	113	52
		CONTRACT NO. 72250		
	ILLINOIS	FED. AID PROJECT		



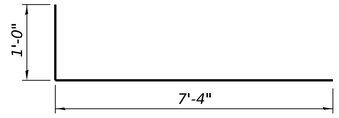
* Prior to grinding

SECTION THRU PARAPET

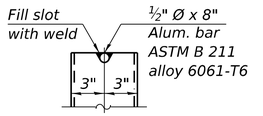
(SB structure reinforcement shown, NB structure reinforcement shall be stainless steel)



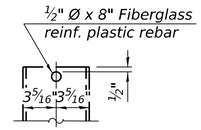
PARAPET JOINT DETAILS



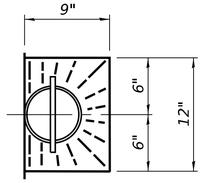
BARS a2(E) & a2(S)



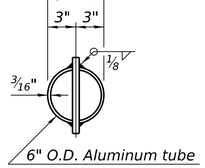
ALUMINUM TUBE



FIBERGLASS PIPE



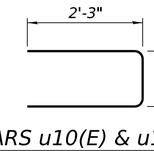
TOP PLAN



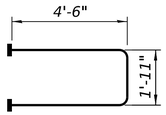
6" O.D. Aluminum tube alloy 6061-T6 or 6" Ø fiberglass pipe

TOP PLAN

(Showing aluminum tube)

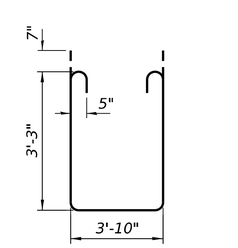


BARS u10(E) & u10(S)

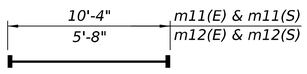


BARS s10(E) & s10(S)

(Headed. 144-#5 Bar terminators)

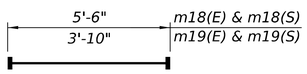


BARS s11(E) & s11(S)



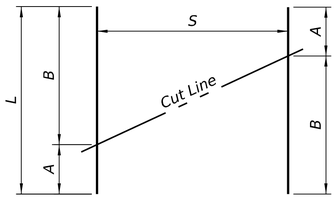
BARS m11(E), m12(E), m11(S), & m12(S)

(Headed. 52-#6 Bar terminators)



BARS m18(E), m19(E), m18(S), & m19(S)

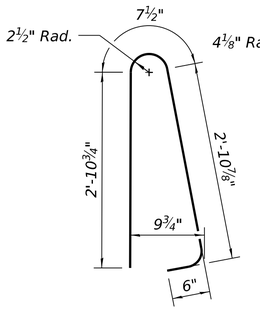
(Headed. 24-#6 Bar terminators)



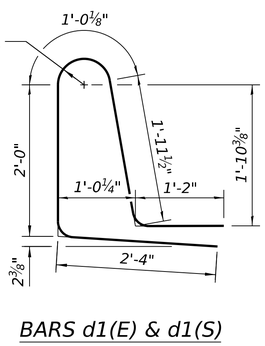
FIELD CUTTING DIAGRAM

Order bars full length. Cut as shown and use remainder of bars in opposite end of deck.

Bar	S	A	B	L
a(E) & a(S)	60 bar spa. @ 7"	1'-3"	24'-5"	25'-8"
a4(E) & a4(S)	42 bar spa. @ 7"	1'-1"	17'-2"	18'-3"
a7(E) & a7(S)	41 bar spa. @ 10"	1'-6"	24'-0"	25'-6"
a8(E) & a8(S)	29 bar spa. @ 10"	1'-3"	17'-0"	18'-3"



BARS d(E) & d(S)



BARS d1(E) & d1(S)

SB SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	60	#5	25'-8"	
a1(E)	421	#5	24'-7"	
a2(E)	930	#6	8'-4"	
a3(E)	8	#5	24'-0"	
a4(E)	42	#5	18'-3"	
a5(E)	440	#5	17'-7"	
a6(E)	8	#5	17'-8"	
a7(E)	41	#5	25'-6"	
a8(E)	29	#5	18'-3"	
a9(E)	296	#5	24'-0"	
a10(E)	308	#5	17'-0"	
b(E)	830	#5	30'-0"	
b1(E)	83	#5	20'-7"	
b2(E)	164	#6	33'-8"	
d(E)	864	#5	7'-0"	
d1(E)	850	#5	8'-6"	
e(E)	128	#4	15'-5"	
e1(E)	48	#4	27'-9"	
e2(E)	128	#4	15'-6"	
e3(E)	64	#4	15'-1"	
e4(E)	24	#4	21'-11"	
m10(E)	24	#6	22'-4"	
m11(E)	20	#6	10'-4"	
m12(E)	6	#6	5'-8"	
m13(E)	30	#6	10'-4"	
m14(E)	6	#6	5'-8"	
m15(E)	12	#6	2'-8"	
m16(E)	8	#4	21'-5"	
m17(E)	24	#6	16'-1"	
m18(E)	8	#6	2'-8"	
m19(E)	4	#6	3'-10"	
m20(E)	6	#6	3'-10"	
m21(E)	8	#4	15'-2"	
s10(E)	68	#5	10'-11"	
s11(E)	68	#5	11'-6"	
u10(E)	82	#4	5'-2"	
Concrete Superstructure		Cu. Yd.	470.1	
Reinforcement Bars, Epoxy Coated		Pound	106,880	
Floor Drains		Each	16	

NB SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(S)	60	#5	25'-8"	
a1(S)	421	#5	24'-7"	
a2(S)	930	#6	8'-4"	
a3(S)	8	#5	24'-0"	
a4(S)	42	#5	18'-3"	
a5(S)	440	#5	17'-7"	
a6(S)	8	#5	17'-8"	
a7(S)	41	#5	25'-6"	
a8(S)	29	#5	18'-3"	
a9(S)	296	#5	24'-0"	
a10(S)	308	#5	17'-0"	
b(S)	830	#5	30'-0"	
b1(S)	83	#5	20'-7"	
b2(S)	164	#6	33'-8"	
d(S)	864	#5	7'-0"	
d1(S)	850	#5	8'-6"	
e(S)	128	#4	15'-5"	
e1(S)	48	#4	27'-9"	
e2(S)	128	#4	15'-6"	
e3(S)	64	#4	15'-1"	
e4(S)	24	#4	21'-11"	
m10(S)	24	#6	22'-4"	
m11(S)	20	#6	10'-4"	
m12(S)	6	#6	5'-8"	
m13(S)	30	#6	10'-4"	
m14(S)	6	#6	5'-8"	
m15(S)	12	#6	2'-8"	
m16(S)	8	#4	21'-5"	
m17(S)	24	#6	16'-1"	
m18(S)	8	#6	2'-8"	
m19(S)	4	#6	3'-10"	
m20(S)	6	#6	3'-10"	
m21(S)	8	#4	15'-2"	
s10(S)	68	#5	10'-11"	
s11(S)	68	#5	11'-6"	
u10(S)	82	#4	5'-2"	
Concrete Superstructure		Cu. Yd.	468.4	
Reinforcement Bars, Stainless Steel		Pound	106,990	
Floor Drains		Each	16	

Notes:

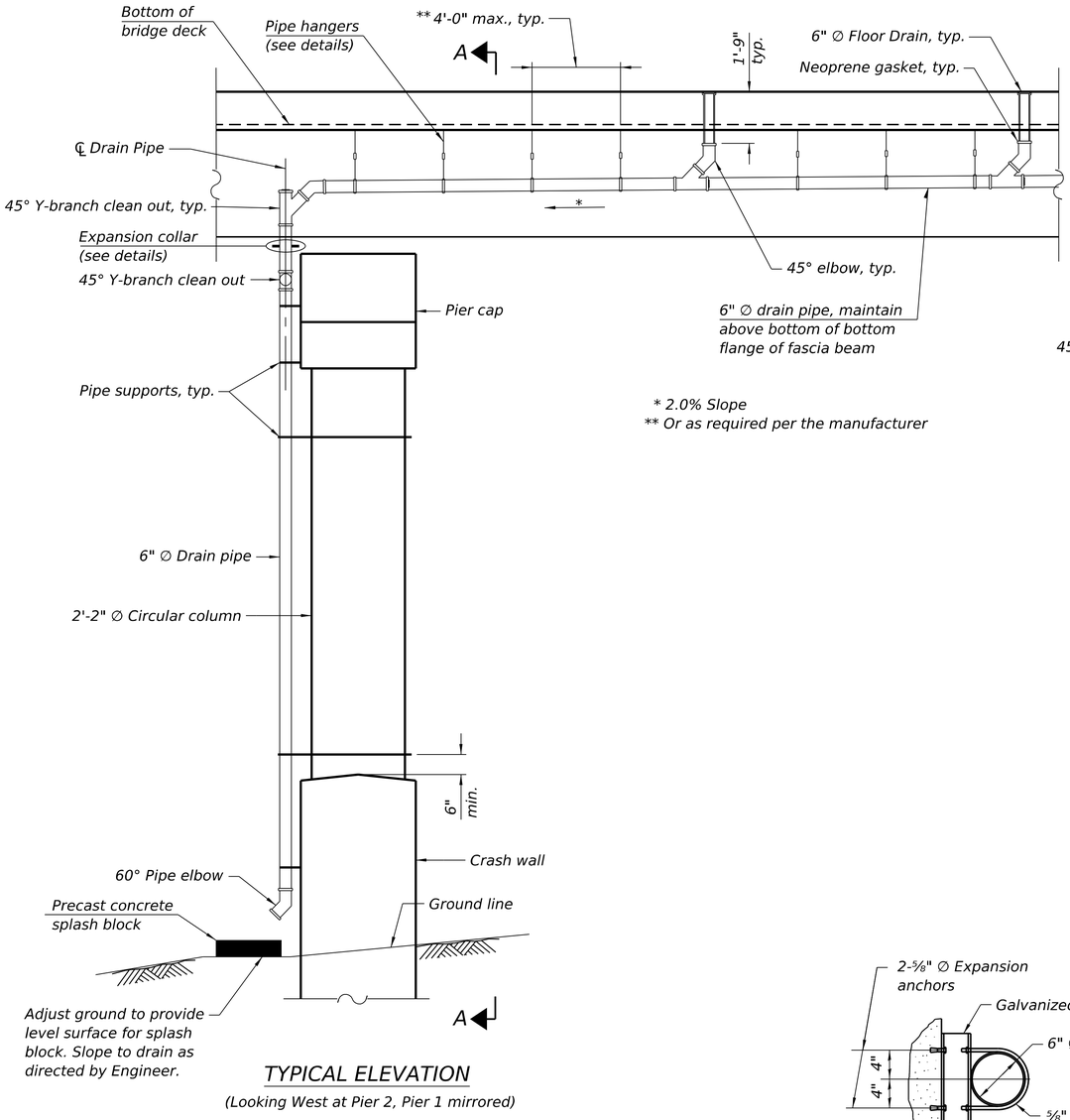
1. *The ³⁄₁₆" min. aluminum sheet shall be ASTM B 209 alloy 3003-H14 and coated with 5 mils of either bitumen paint or epoxy paint to minimize reaction with wet concrete. Cost included with Concrete Superstructure.*
2. *The polyurethane sealant shall be according to Article 1050.04 of the Std. Spec. and the color shall be gray.*
3. *Bar terminators, paid for separately. See Total Bill of Material.*

FILE NAME: c:\Furhmann\Engr\240070089-00 I-72\7089000\CADD Data\Bridge\CADD Sheets\D6722250 - 019 - Superstructure Details - II.dgn

CMT
License No. 184-000613 © Copyright CMT, Inc.

USER NAME = vtan	DESIGNED - VT	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUPERSTRUCTURE DETAILS - II STRUCTURE NO. 001-0050 (SB) & 001-0051 (NB)	
	DRAWN - VT	REVISED -			
	CHECKED - DAC	REVISED -			
PLOT DATE = 5/15/2026	DATE - 8/18/2026	REVISED -		SCALE: SHEET 19 OF 41 SHEETS STA. TO STA.	

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-6VBR	ADAMS	113	53
		CONTRACT NO. 72250		
	ILLINOIS	FED. AID PROJECT		

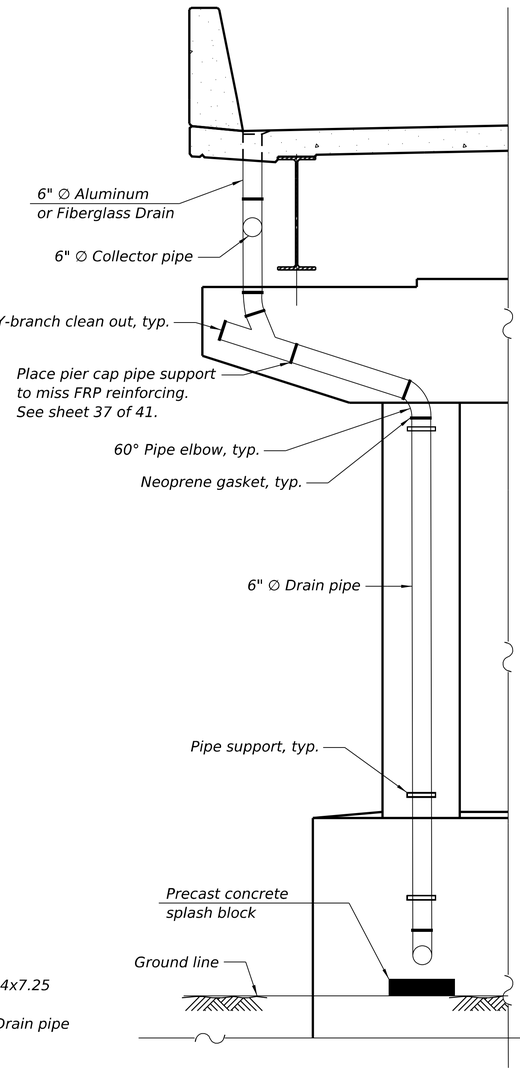


TYPICAL ELEVATION

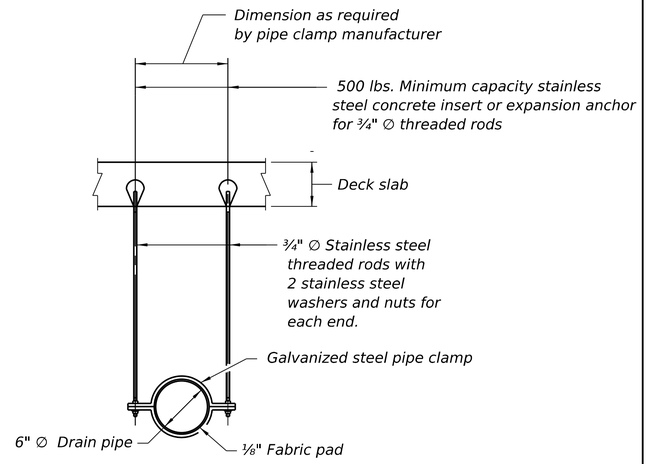
(Looking West at Pier 2, Pier 1 mirrored)

* 2.0% Slope

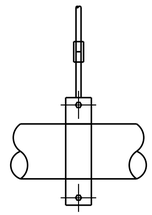
** Or as required per the manufacturer



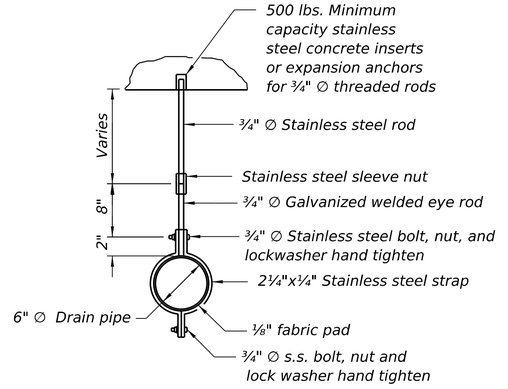
SECTION A-A



PIPE HANGER DETAIL

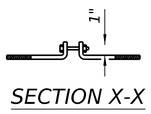


ELEVATION

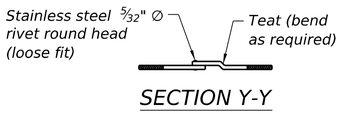


TYPICAL SECTION

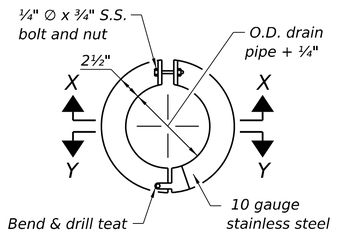
ALTERNATE PIPE HANGER DETAIL



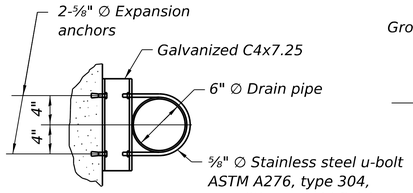
SECTION X-X



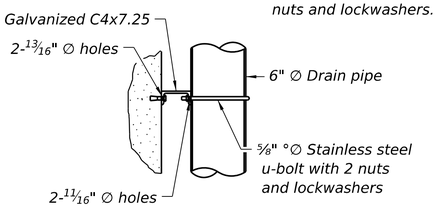
SECTION Y-Y



DETAIL OF EXPANSION COLLAR



PLAN



ELEVATION

PIPE SUPPORT DETAIL

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Drainage System for Structures	L. Sum	1

Notes:

1. Maintain 6" ∅ drain pipe above bottom flanges.
2. Approximate lengths from slab drain to abutments or between downspouts shown on plans. Contractor to determine actual quantities of pipe and fittings required. Paid for as Drainage System for Structures.
3. For slab drain locations, see Sheet 1, 14, 15, 16 and 17 of 41.
4. Pipe supports shall be provided, as required by design, on all vertical drain pies at no more than 10'-0" centers or as approved by the Engineer.
5. Ductile iron pipe shall be used for the drain pipes, elbows, and Y-branch cleanouts. The ductile iron pipe shall conform to ANSI/AWWA C150/A21.50, C151/A21.51.
6. The ductile iron pipe shall have a standard coating of black or dark grey on the exterior and shall have a cement-mortar lining on the interior in accordance with ANSI/AWWA C104/A21.

FILE NAME: L:\FurhmannEng\240078B9-00_I-172\108900\CADD Data\Bridge\CADD Sheets\D672250 - 019a - Drainage System Details.dgn

CMT
License No. 184-000613
© Copyright CMT, Inc.

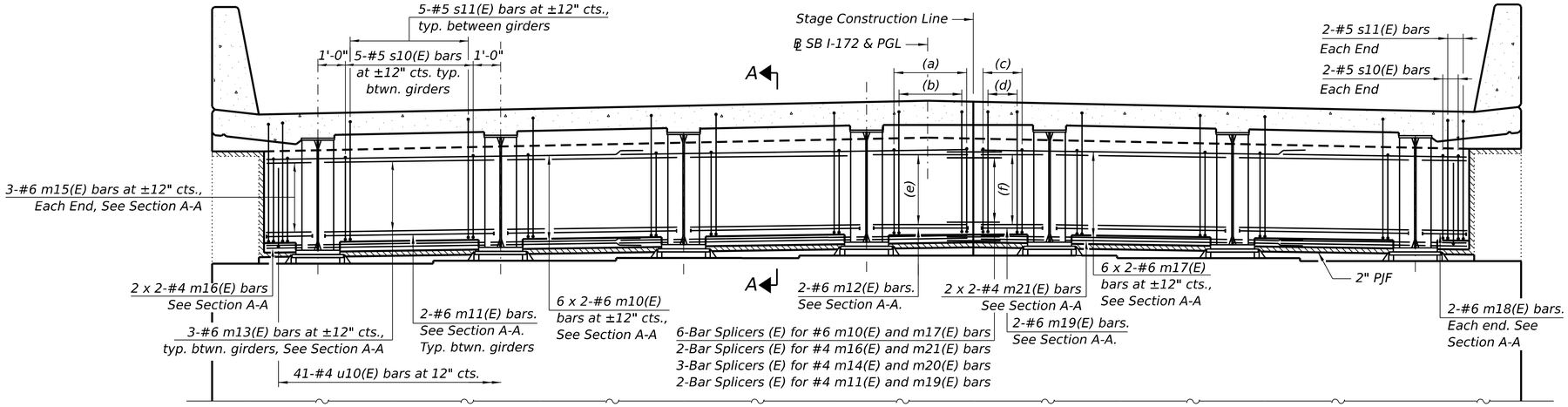
USER NAME = jrheinheimer	DESIGNED - AFR	REVISED -			
	DRAWN - AFR	REVISED -			
	CHECKED - FAS	REVISED -			
PLOT DATE = 9/23/2026	DATE - 8/18/2026	REVISED -			

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE SYSTEM DETAILS
STRUCTURE NO. 001-0050 (SB) & 001-0051 (NB)

SCALE: | SHEET 19A OF 41 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-6VBR	ADAMS	113	53A
		CONTRACT NO. 72250		
	ILLINOIS	FED. AID PROJECT		



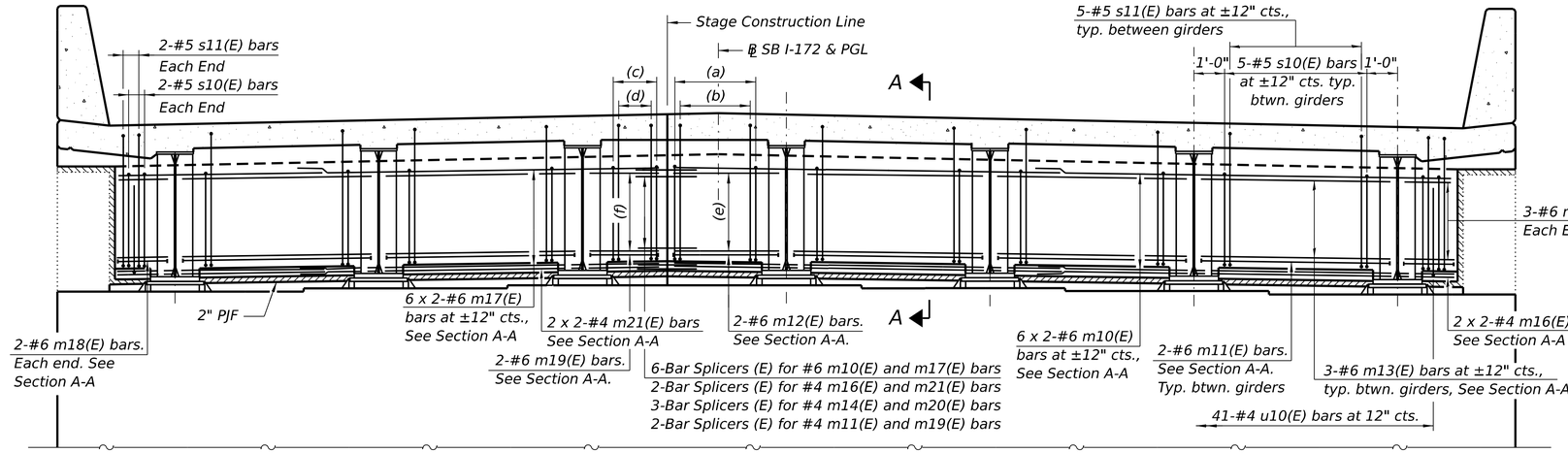
DIAPHRAGM AT NORTH ABUTMENT - SB

(NB south abutment similar by 180° rotation)
(SB epoxy coated reinforcement shown.
NB stainless steel reinforcement similar)

(a) 3-#5 s10(E) bars at ±12" cts.
(b) 3-#5 s11(E) bars at ±12" cts.
(c) 2-#5 s10(E) bars at ±12" cts.
(d) 2-#5 s11(E) bars at ±12" cts.
(e) 3-#6 m14(E) bars at ±12" cts.
(f) 3-#6 m20(E) bars at ±12" cts.

MINIMUM BAR LAP

#4 bar = 1'-7"
#6 bar = 3'-6"



DIAPHRAGM AT SOUTH ABUTMENT - SB

(NB north abutment similar by 180° rotation)
(SB epoxy coated reinforcement shown.
NB stainless steel reinforcement similar)

(a) 3-#5 s10(E) bars at ±12" cts.
(b) 3-#5 s11(E) bars at ±12" cts.
(c) 2-#5 s10(E) bars at ±12" cts.
(d) 2-#5 s11(E) bars at ±12" cts.
(e) 3-#6 m14(E) bars at ±12" cts.
(f) 3-#6 m20(E) bars at ±12" cts.

Notes:
1. See sheet 19 of 41 for superstructure details and Bill of Material.
2. The s10(E), s11(E), and u10(E) bars shall be placed parallel to the girders. Spacing for these bars shall be at right angles to the girders.
3. See Section A-A on sheet 21 of 41.

FILE NAME: L:\FuhmannEng\240070\89-00_I-172\708900\CADD Data\Bridge\CADD Sheets\D6722S0 - 020 - Diaphragm Details - I.dgn

CMT
License No. 184-000613
© Copyright CMT, Inc.

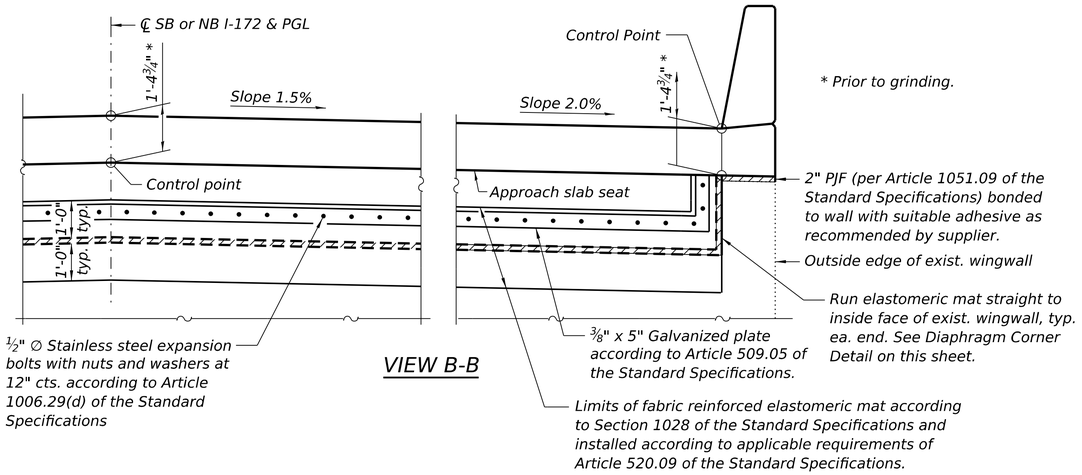
USER NAME = vtan	DESIGNED - VT	REVISED -
	DRAWN - VT	REVISED -
	CHECKED - DAC	REVISED -
PLOT DATE = 6/8/2026	DATE - 8/18/2026	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

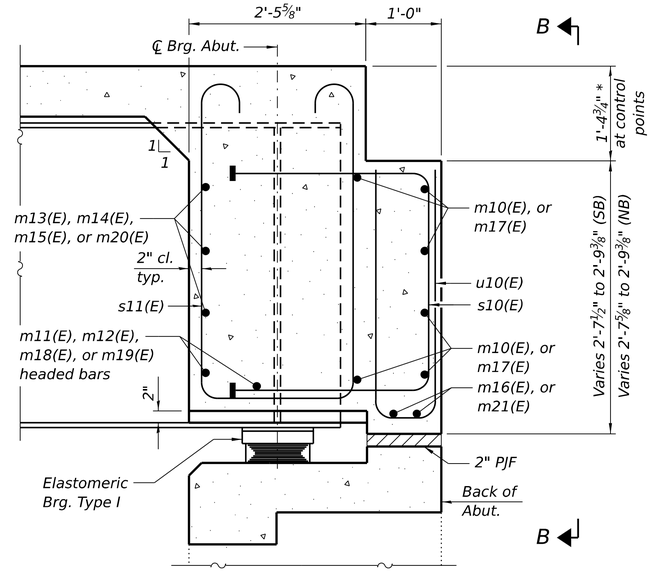
DIAPHRAGM DETAILS - I
STRUCTURE NO. 001-0050 (SB) & 001-0051 (NB)

SCALE: | SHEET 20 OF 41 SHEETS | STA. | TO STA.

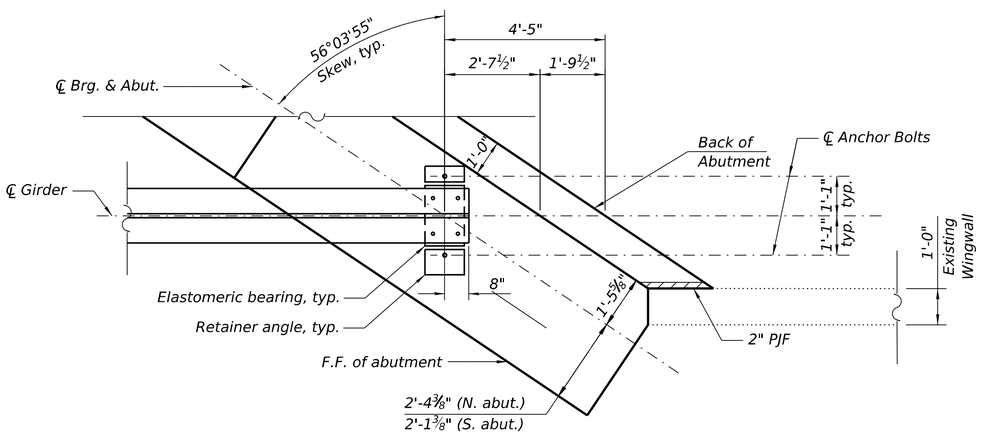
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-6VBR	ADAMS	113	54
		CONTRACT NO. 72250		
	ILLINOIS	FED. AID PROJECT		



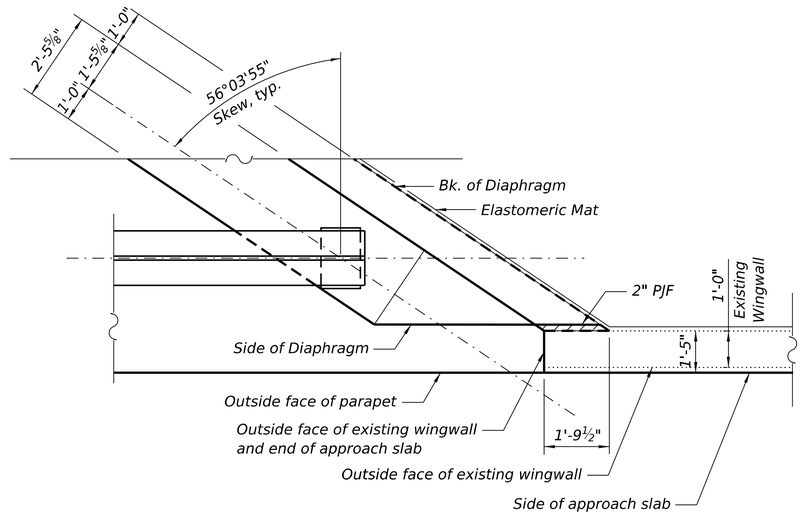
VIEW B-B



SECTION A-A
(at Rt. ∠'s)



PLAN AT ABUTMENT
(Showing bottom flange of girder)



DIAPHRAGM CORNER DETAIL
(Typical each end both sides)

Notes:
1. *See sheet 19 of 41 for superstructure details and Bill of Material.*
2. *The approach slab seat shall have a constant slope determined from the control points shown.*
3. *Cost of fabric reinforced elastomeric mat, galvanized plate, stainless steel expansion bolts with nuts and washer and installation are included in the cost of Concrete Superstructure.*
4. *SB epoxy coated reinforcement shown. NB stainless steel reinforcement similar.*

FILE NAME: L:\FurhmannEng\240070893-00_I-172\708900\CADD Data\Bridge\CADD Sheets\D6722250 - 021 - Diaphragm Details - II.dgn

CMT
License No. 184-000613
© Copyright CMT, Inc.

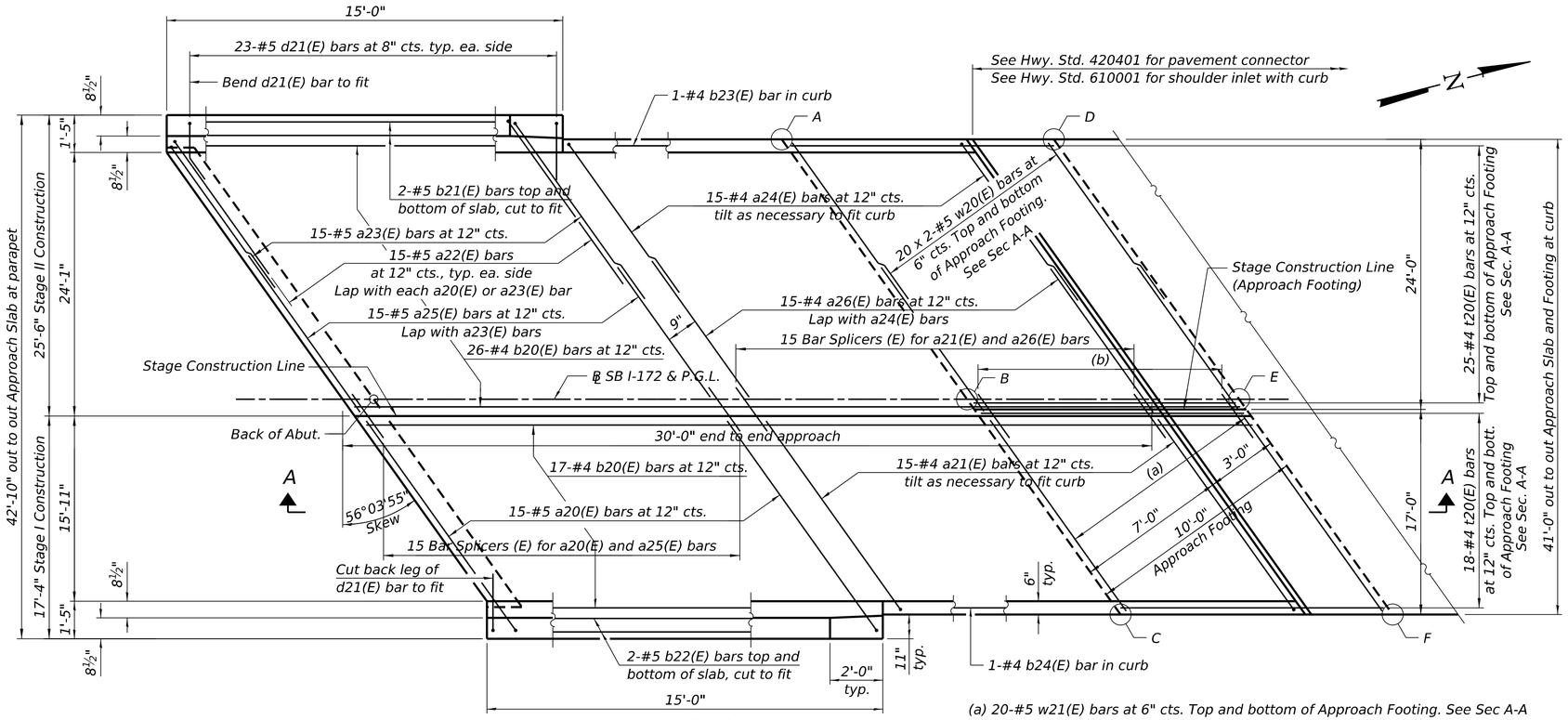
USER NAME = vtan	DESIGNED - VT	REVISED -
	DRAWN - VT	REVISED -
	CHECKED - DAC	REVISED -
PLOT DATE = 8/12/2026	DATE - 8/18/2026	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DIAPHRAGM DETAILS - II
STRUCTURE NO. 001-0050 (SB) & 001-0051 (NB)

SCALE: | SHEET 21 OF 41 SHEETS | STA. | TO STA.

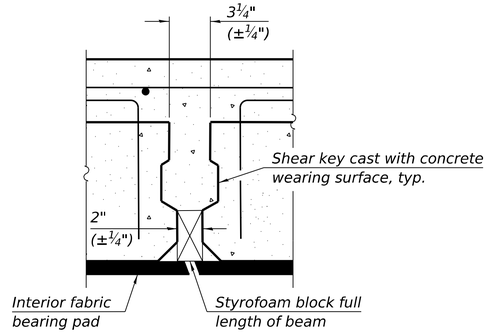
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-6VBR	ADAMS	113	55
		CONTRACT NO. 72250		
	ILLINOIS	FED. AID PROJECT		



PLAN

(SB north approach slab shown; NB south approach slab similar by 180° rotation)

(a) 20-#5 w21(E) bars at 6" cts. Top and bottom of Approach Footing. See Sec A-A
(b) 40 Bar Splicers (E) for w20(E) and w21(E) bars.



DETAIL 'A'

TOP AND BOTTOM ELEVATIONS FOR APPROACH FOOTING

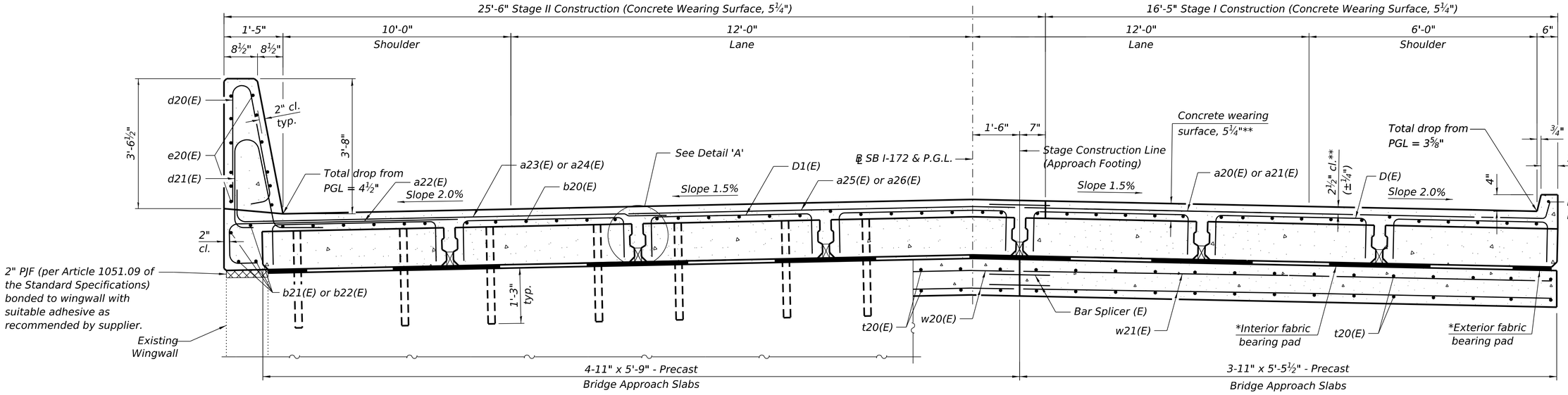
North Approach (SB)			South Approach (NB)		
Point	Top	Bottom	Point	Top	Bottom
A - SW	756.85	756.02	A - NW	756.97	756.14
B - ℄	757.18	756.35	B - ℄	757.29	756.46
C - SE	756.81	755.98	C - NE	756.90	756.07
D - NW	756.82	755.99	D - SW	756.95	756.12
E - ℄	757.14	756.31	E - ℄	757.28	756.45
F - NE	756.76	755.93	F - SE	756.90	756.07

* Fabric bearing pads at the expansion end shall be recessed ¼" into the approach footing and bonded. Adjusting shims, when required, shall be bonded to the top of the fabric bearing pads.

** Prior to grinding.

MINIMUM BAR LAP

#5 bar = 2'-0"



NEAR ABUTMENT

AT APPROACH FOOTING

CROSS SECTION

(Looking North)

FILE NAME: L:\FurhmannEng\24007089-00_I-172\708900\CADD Data\Bridge\CADD Sheets\D672260 - 022 - Partial Depth Precast Bridge Approach Slab - I.dgn

CMT License No. - 184-000613 © Copyright CMT, Inc.

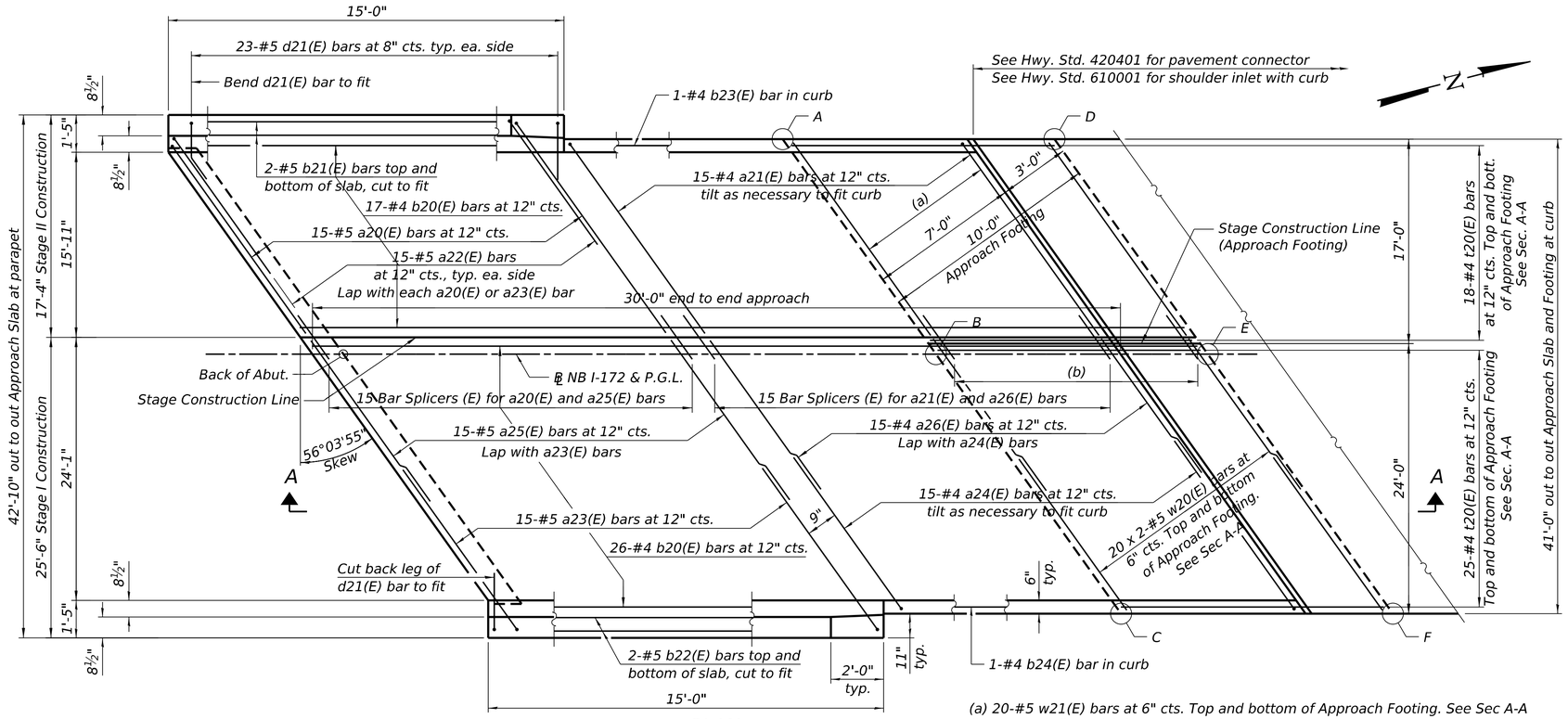
USER NAME = vtan	DESIGNED - VT	REVISED -	
	DRAWN - VT	REVISED -	
	CHECKED - DAC	REVISED -	
PLOT DATE = 4/29/2026	DATE - 8/18/2026	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PARTIAL DEPTH PRECAST BRIDGE APPROACH SLAB - I
STRUCTURE NO. 001-0050 (SB) & 001-0051 (NB)

SCALE: | SHEET 22 OF 41 SHEETS | STA. | TO STA.

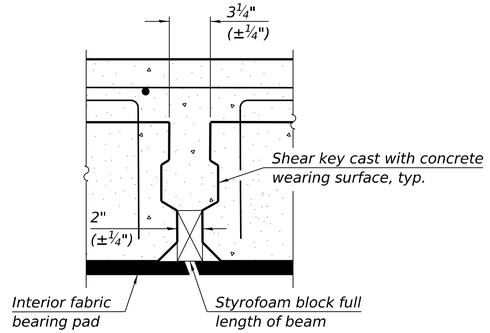
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-6VBR	ADAMS	113	56
		CONTRACT NO. 72250		
		ILLINOIS	FED. AID PROJECT	



PLAN

(NB north approach slab shown; SB south approach slab similar by 180° rotation)

(a) 20-#5 w21(E) bars at 6" cts. Top and bottom of Approach Footing. See Sec A-A
(b) 40 Bar Splicers (E) for w20(E) and w21(E) bars.



DETAIL 'A'

TOP AND BOTTOM ELEVATIONS FOR APPROACH FOOTING

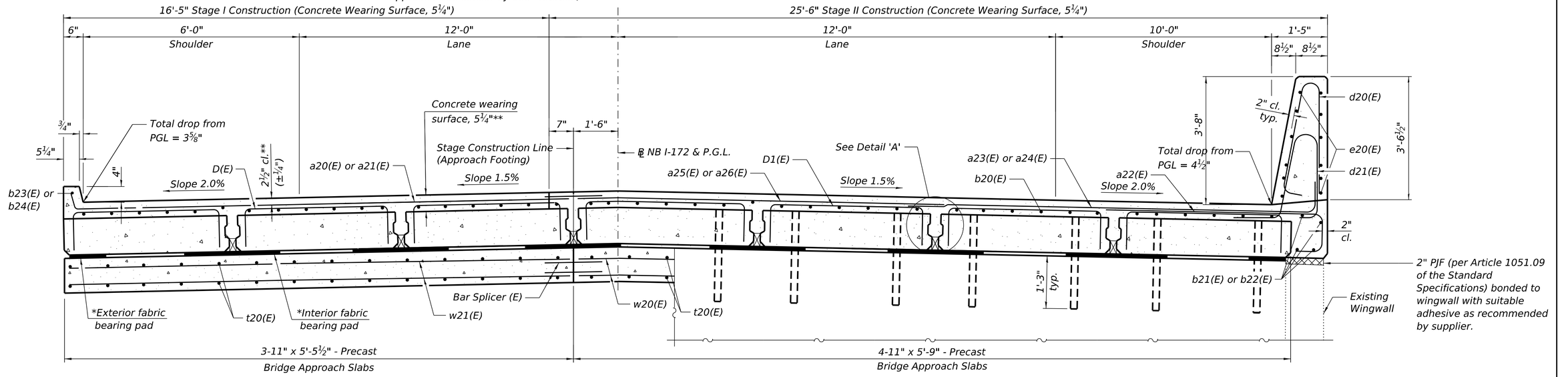
South Approach (SB)			North Approach (NB)		
Point	Top	Bottom	Point	Top	Bottom
A - NW	756.31	755.48	A - SW	756.29	755.46
B - ℄	756.85	756.02	B - ℄	756.45	755.62
C - NE	756.65	755.82	C - SE	755.86	755.03
D - SW	756.22	755.39	D - NW	756.19	755.36
E - ℄	756.77	755.94	E - ℄	756.35	755.52
F - SE	756.58	755.75	F - NE	755.75	754.92

* Fabric bearing pads at the expansion end shall be recessed ¼" into the approach footing and bonded. Adjusting shims, when required, shall be bonded to the top of the fabric bearing pads.

** Prior to grinding.

MINIMUM BAR LAP

#5 bar = 2'-0"



AT APPROACH FOOTING

NEAR ABUTMENT

CROSS SECTION

(Looking North)

FILE NAME: L:\FurhmannEng\24007089-00_I-172\708900\CADD Data\Bridge\CADD Sheets\D672250 - 023 - Partial Depth Precast Bridge Approach Slab - II.dgn

CMT
License No. - 184-000613
© Copyright CMT, Inc.

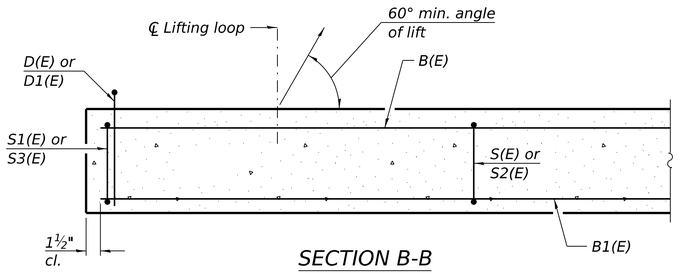
USER NAME = areinwart	DESIGNED - VT	REVISED -	
	DRAWN - VT	REVISED -	
	CHECKED - DAC	REVISED -	
PLOT DATE = 9/23/2026	DATE - 8/18/2026	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

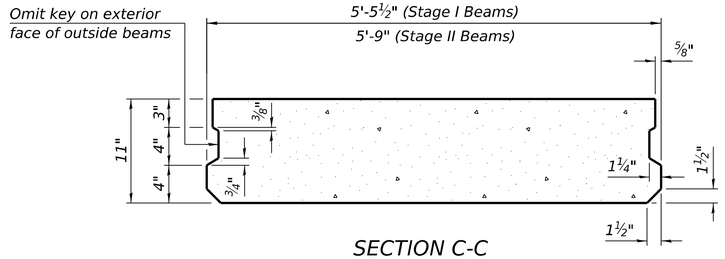
PARTIAL DEPTH PRECAST BRIDGE APPROACH SLAB - II
STRUCTURE NO. 001-0050 (SB) & 001-0051 (NB)

SCALE: | SHEET 23 OF 41 SHEETS | STA. | TO STA.

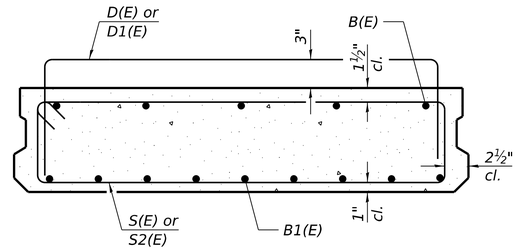
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-6VBR	ADAMS	113	57
		CONTRACT NO. 72250		
		ILLINOIS	FED. AID PROJECT	



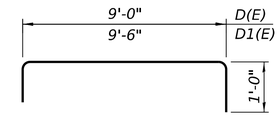
SECTION B-B



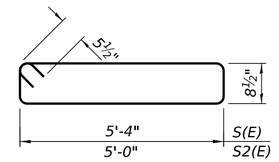
SECTION C-C
(Showing dimensions)



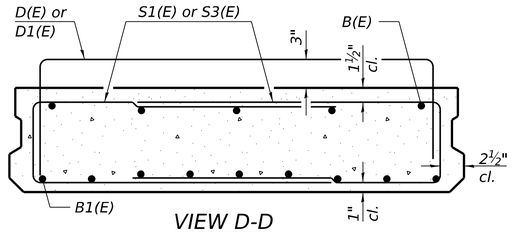
SECTION C-C
(Showing reinforcement)



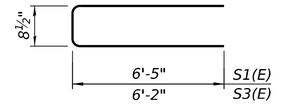
BARS D(E) & D1(E)



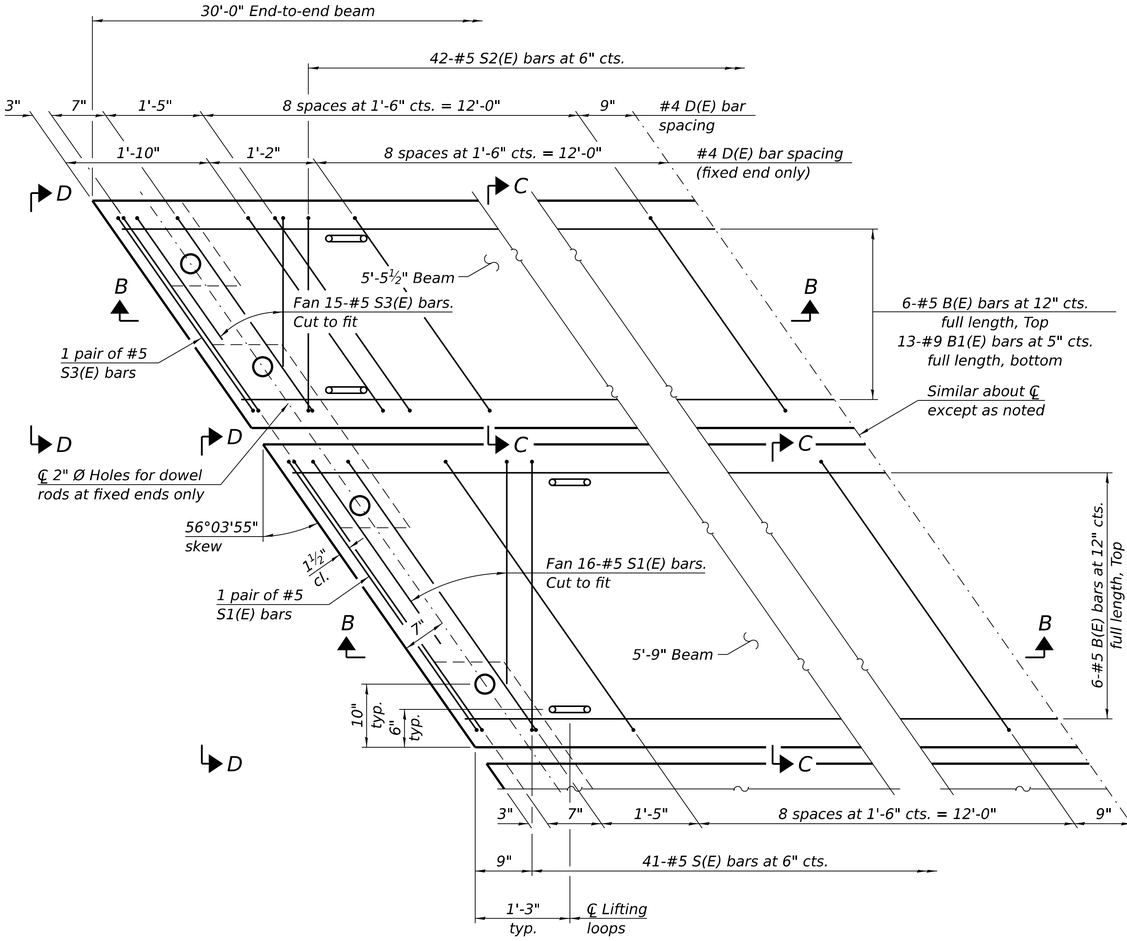
BARS S(E) & S2(E)



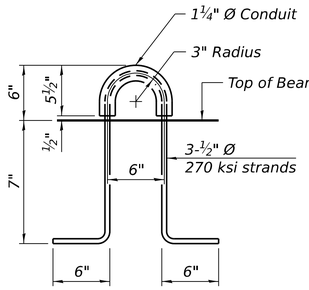
VIEW D-D
(Showing reinforcement)



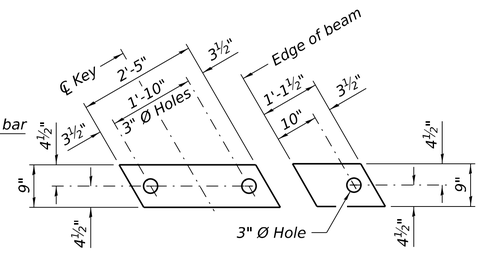
BARS S1(E) & S3(E)



PLAN VIEW
(showing precast bridge approach beams)
(Spacing of D(E) and D1(E) bars may be adjusted up to 3" to miss the dowel rod holes and the lifting loops at the beam ends)



LIFTING LOOP DETAIL
(An alternate lifting loop with a Safe Working Load of 6,250 lbs. (25,000 lbs. Proof Load / Factor of Safety of 4) and utilized according to the manufacturer's recommendations may be used.)



INTERIOR EXTERIOR

FABRIC BEARING PAD

Notes:
Bearing pads at fixed end shall be ½" thick and bearing pads at expansion end shall be ¾" thick.
Omit holes for fabric bearing pads at approach slab footing end of beams.

BAR LIST
5'-5½" INTERIOR BEAM
(For information only)

Bar	No.	Size	Length	Shape
B(E)	6	#5	29'-8"	—
B1(E)	13	#9	29'-8"	—
D(E)	22	#4	11'-0"	⌐
S2(E)	42	#5	12'-4"	⌐
S3(E)	34	#5	13'-1"	⌐

BAR LIST
5'-5½" EXTERIOR BEAM
(For information only)

Bar	No.	Size	Length	Shape
B(E)	6	#5	29'-8"	—
B1(E)	13	#9	29'-8"	—
D(E)	32	#4	11'-0"	⌐
S2(E)	42	#5	12'-4"	⌐
S3(E)	34	#5	13'-1"	⌐

BAR LIST
5'-9" INTERIOR BEAM
(For information only)

Bar	No.	Size	Length	Shape
B(E)	6	#5	29'-8"	—
B1(E)	13	#9	29'-8"	—
D1(E)	22	#4	11'-6"	⌐
S(E)	41	#5	13'-0"	⌐
S1(E)	36	#5	13'-6"	⌐

BAR LIST
5'-9" EXTERIOR BEAM
(For information only)

Bar	No.	Size	Length	Shape
B(E)	6	#5	29'-8"	—
B1(E)	13	#9	29'-8"	—
D1(E)	32	#4	11'-6"	⌐
S(E)	41	#5	13'-0"	⌐
S1(E)	36	#5	13'-6"	⌐

Notes:
1. The precast bridge approach slab shall be according to Section 504 of the Standard Specifications and shall be paid for at the contract unit price per square foot for Precast Bridge Approach Slab.
2. Temperature control for placement shall be according to Article 1020.14(b).
3. Cast-in-place substitution of Precast Bridge Approach Slab is not allowed.
4. The top surface of precast bridge approach slabs shall be finished similar to precast prestressed deck beams with concrete wearing surface as specified in the IDOT "Manual for Fabrication of Precast Prestressed Concrete Products."
5. Two ⅛" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location. Cost included with Precast Bridge Approach Slab.
6. A minimum 2½" Ø lifting pins shall be used to engage the lifting loops during handling.
7. Compressive strength of precast concrete, f 'c shall be 6,000 psi.
8. Compressive strength of precast concrete during initial lifting, f 'ci shall be 5,000 psi.

FILE NAME: L:\FurhmannEng\240070089-00_I-172\70890I\CADD Data\Bridge\CADD Sheets\D6T72250 - 024 - Bridge Approach Slab Details I.dgn

CMT
License No. 184-000613
© Copyright CMT, Inc.

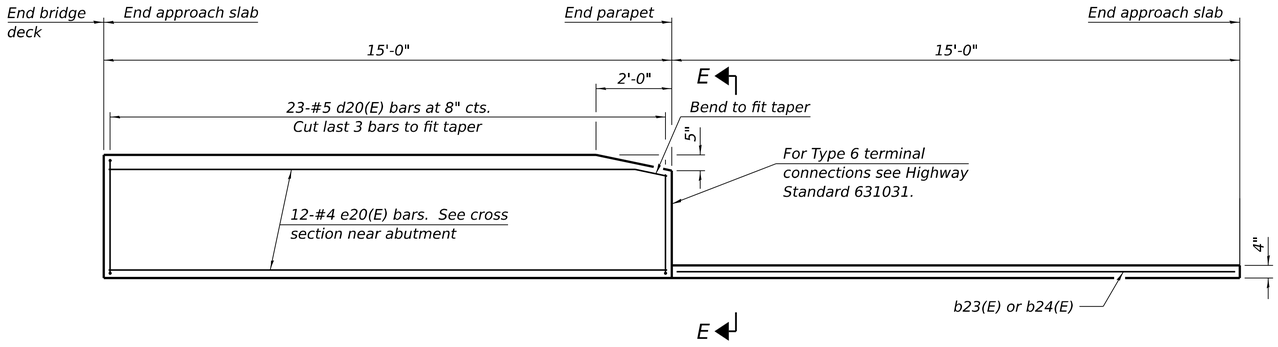
USER NAME = vtan	DESIGNED - VT	REVISED -	
	DRAWN - VT	REVISED -	
	CHECKED - DAC	REVISED -	
PLOT DATE = 5/20/2026	DATE - 8/18/2026	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

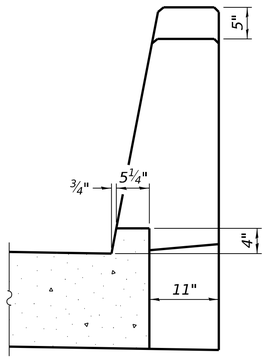
BRIDGE APPROACH SLAB DETAILS - I
STRUCTURE NO. 001-0050 (SB) & 001-0051 (NB)

SCALE: | SHEET 24 OF 41 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-6VBR	ADAMS	113	58
		CONTRACT NO. 72250		
		ILLINOIS	FED. AID PROJECT	



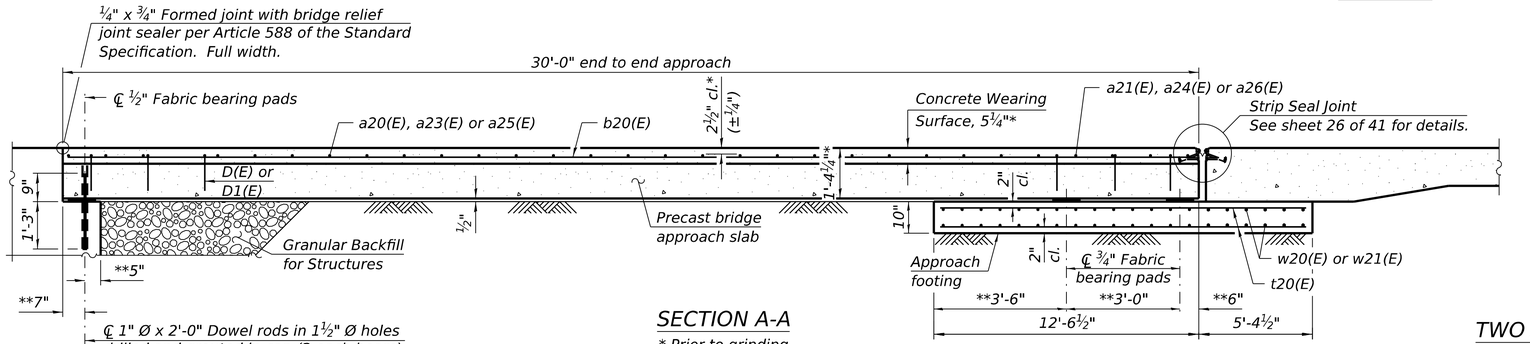
INSIDE ELEVATION OF PARAPET AND CURB



VIEW E-E

Notes:

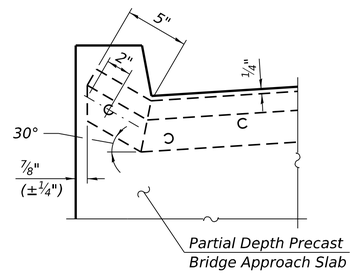
1. The joint opening shall be adjusted for temperature per Article 520.04 of the Standard Specifications. However, since this detail is for jointless structures, the length of bridge used to calculate the adjustment shall be equal to half the total bridge length plus the length of the bridge approach slab.
2. After precast bridge approach slabs have been erected, holes shall be drilled into abutment and anchor dowels placed. Dowel holes shall be filled with non-shrink grout to top of precast slab and cured according to Article 1020.13(a)(3) or 1020.13(a)(5) of the Standard Specifications for a minimum of 24 hours before casting the shear keys and wearing surface.
3. Any concrete poured monolithically with the wearing surface, such as curbs, shall not be paid for separately, but will be included in the cost of Concrete Wearing Surface, 5¼".
4. Parapet concrete shall be paid for as Concrete Superstructure.
5. Approach footing concrete shall be paid for as Concrete Structures.
6. The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
7. Cost of excavation for approach footing included with Concrete Structures.
8. For Granular Backfill for Structures and drainage treatment details, see sheet 2 of 41.
9. Cost of cellular polystyrene is included with Concrete Superstructure.



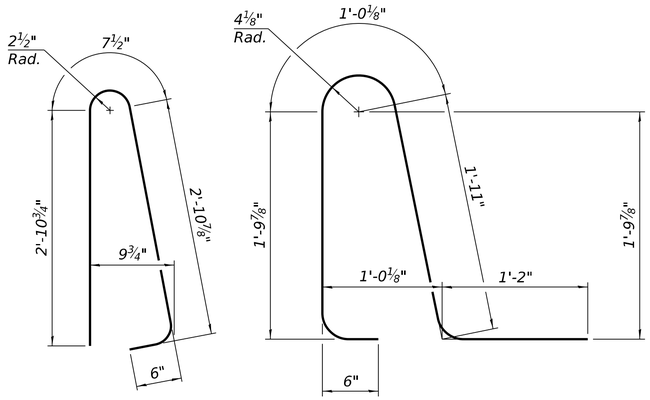
SECTION A-A

* Prior to grinding

** At right angles

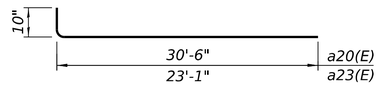


END OF SEAL DETAIL

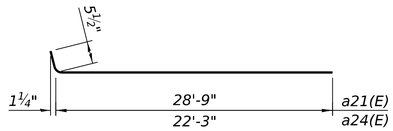


BAR d20(E)

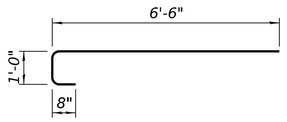
BAR d21(E)



BAR a20(E) or a23(E)



BAR a21(E) or a24(E)



BAR a22(E)

TWO APPROACHES BILL OF MATERIAL

Structure No. 001-0050 (SB)

Bar	No.	Size	Length	Shape
a20(E)	30	#5	31'-4"	
a21(E)	30	#4	29'-3"	
a22(E)	60	#5	8'-2"	
a23(E)	30	#5	23'-11"	
a24(E)	30	#4	22'-9"	
a25(E)	30	#5	24'-2"	
a26(E)	30	#4	23'-3"	
b20(E)	86	#4	29'-8"	
b21(E)	8	#5	16'-3"	
b22(E)	8	#5	14'-2"	
d20(E)	92	#5	7'-0"	
d21(E)	92	#5	6'-5"	
e20(E)	48	#4	14'-8"	
t20(E)	172	#4	17'-4"	
w20(E)	160	#5	22'-3"	
w21(E)	80	#5	29'-10"	
Concrete Structures			Cu. Yd.	45.4
Concrete Superstructure			Cu. Yd.	8.5
Reinforcement Bars, Epoxy Coated			Pound	16,420
Concrete Wearing Surface, 5¼"			Sq. Yd.	208
Precast Bridge Approach Slab			Sq. Ft.	2,460

TWO APPROACHES BILL OF MATERIAL

Structure No. 001-0051 (NB)

Bar	No.	Size	Length	Shape
a20(E)	30	#5	31'-4"	
a21(E)	30	#4	29'-3"	
a22(E)	60	#5	8'-2"	
a23(E)	30	#5	23'-11"	
a24(E)	30	#4	22'-9"	
a25(E)	30	#5	24'-2"	
a26(E)	30	#4	23'-3"	
b20(E)	86	#4	29'-8"	
b21(E)	8	#5	16'-3"	
b22(E)	8	#5	14'-2"	
d20(E)	92	#5	7'-0"	
d21(E)	92	#5	6'-5"	
e20(E)	48	#4	14'-8"	
t20(E)	172	#4	17'-4"	
w20(E)	160	#5	22'-3"	
w21(E)	80	#5	29'-10"	
Concrete Structures			Cu. Yd.	45.4
Concrete Superstructure			Cu. Yd.	8.5
Reinforcement Bars, Epoxy Coated			Pound	16,420
Concrete Wearing Surface, 5¼"			Sq. Yd.	208
Precast Bridge Approach Slab			Sq. Ft.	2,460

FILE NAME: L:\Furhmann\Eng\240070893-00_I-172\708900\CADD Data\Bridge\CADD Sheets\D6722250 - 025 - Bridge Approach Slab Details II.dgn

CMT
License No. 184-000613
© Copyright CMT, Inc.

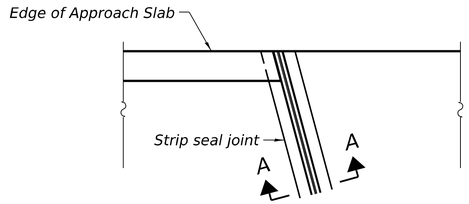
USER NAME = vtan	DESIGNED - VT	REVISED -	
	DRAWN - VT	REVISED -	
	CHECKED - DAC	REVISED -	
PLOT DATE = 5/27/2026	DATE - 8/18/2026	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE APPROACH SLAB DETAILS - II
STRUCTURE NO. 001-0050 (SB) & 001-0051 (NB)

SCALE: | SHEET 25 OF 41 SHEETS | STA. | TO STA.

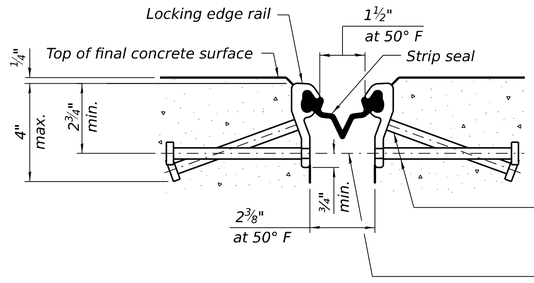
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-6VBR	ADAMS	113	59
		CONTRACT NO. 72250		
		ILLINOIS	FED. AID PROJECT	



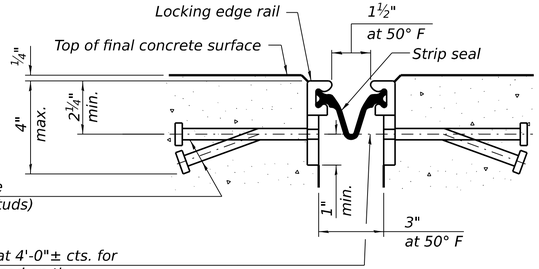
PLAN

Notes:

1. The strip seal shall be made continuous and shall have a minimum thickness of ¼". The configuration of the strip seal shall match the configuration of the locking edge rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.
2. The locking edge rails depicted are configured for typical applications and are conceptual only. The actual configuration of the locking edge rails and matching strip seal may vary from manufacturer to manufacturer provided they fit the application and meet the minimum anchorage shown. Flanged edge rails, however, will not be allowed. Locking edge rails may exceed the 4½" maximum depth provided the anchorage system is revised according to the manufacturer's recommendation.
3. The manufacturer's recommended installation methods shall be followed.
4. All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.
5. The Maximum space between locking edge rail segments shall be 3/16" and sealed with a suitable sealant; however, any rail joint within 10' measured perpendicular to the face of the curb or parapet shall be welded as shown in the locking edge rail splice detail.
6. Cost of anchorage studs included with Preformed Joint Strip Seal.
7. The concrete opening below the strip seal will vary based on the locking edge rail chosen by the Contractor. Deck and parapet lengths shown elsewhere in the plans are dimensioned to the concrete opening, not the joint opening, and are based on the rolled locking edge rail. If the Contractor elects to use a different locking edge rail, dimensional adjustments may be required. One exception to this would be the strip seal joint at the end of the precast bridge approach slab. For these cases the pavement connector length shall be adjusted, not the length of the bridge approach slab.



SHOWING ROLLED RAIL JOINT



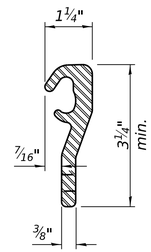
SHOWING WELDED RAIL JOINT

* ⅝" Ø x 6" studs @ 6" cts. (alternate angled/bent studs with horizontal studs)

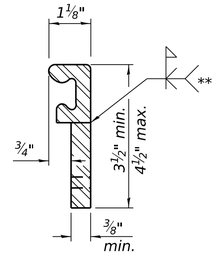
⅜" Ø threaded rods in 7/16" Ø holes at 4'-0"± cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates within 90 minutes after concrete is set.

SECTION A-A

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



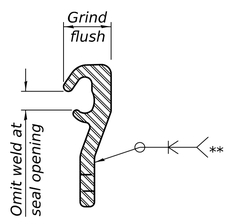
ROLLED (EXTRUDED) RAIL



WELDED RAIL

LOCKING EDGE RAILS

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



LOCKING EDGE RAIL SPLICE

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

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	294

FILE NAME: L:\FurhmannEng\240070893-00_I-172\708900\CADD Data\Bridge\CADD Sheets\D672250 - 028 - Preformed Joint Strip Seal.dgn

CMT
License No. 184-000613
© Copyright CMT, Inc.

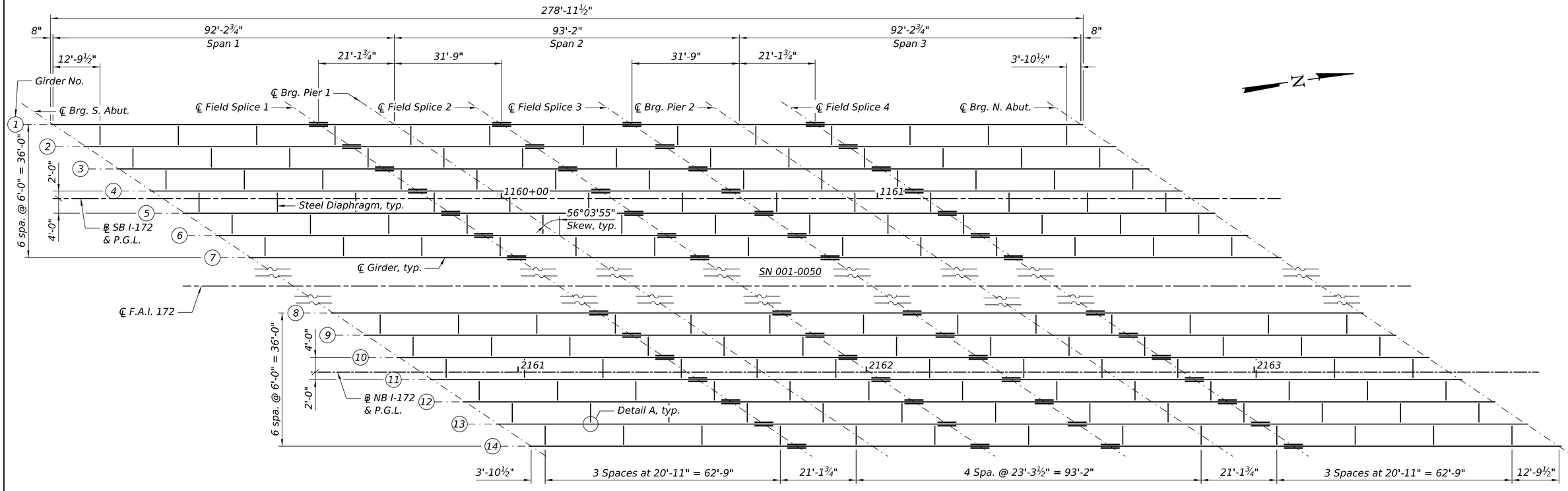
USER NAME = vtan	DESIGNED - VT	REVISED -
	DRAWN - VT	REVISED -
	CHECKED - DAC	REVISED -
PLOT DATE = 5/21/2026	DATE - 8/18/2026	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PREFORMED JOINT STRIP SEAL
STRUCTURE NO. 001-0050 (SB) & 001-0051 (NB)

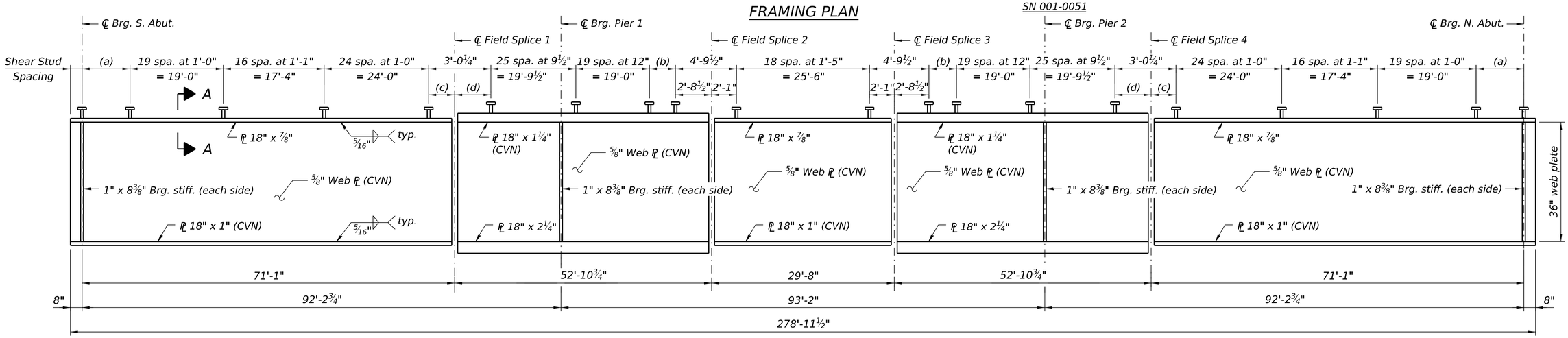
SCALE: | SHEET 26 OF 41 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-6VBR	ADAMS	113	60
		CONTRACT NO. 72250		
	ILLINOIS	FED. AID PROJECT		

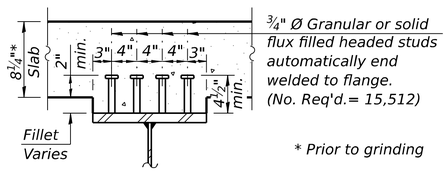


FRAMING PLAN

SN 001-0051



GIRDER ELEVATION



¾" Ø Granular or solid flux filled headed studs automatically end welded to flange. (No. Req'd.= 15,512)

* Prior to grinding

SECTION A-A

(a) 17 spa. at 6½" = 9'-2½"
(b) 7 spa. at 1'-5" = 9'-11"
(c) 1'-6½"
(d) 1'-5¾"

Notes:

1. *All girder webs, flange plates, and bearing stiffener plates shall be AASHTO M270 Grade 50.*
2. *All diaphragms and connection plates shall be ASTM A709 Grade 36.*
3. *All diaphragms shall be installed as steel is erected with erection pins and bolts except as otherwise noted. Individual diaphragms at supports may be temporarily disconnected to install bearing anchor bolts.*
4. *Load carrying components designated "CVN" shall conform to the Charpy V-Notch Impact Energy Requirements, Zone 2.*
5. *See sheet 28 of 41 for field splice, diaphragm details, and Detail A.*

FILE NAME: L:\FurhmannEng\240070893-00_I-172\708900\CADD Data\Bridge\CADD Sheets\D6772250 - 027 - Framing Plan and Girder Elevation.dgn

CMT
License No. 184-000613
© Copyright CMT, Inc.

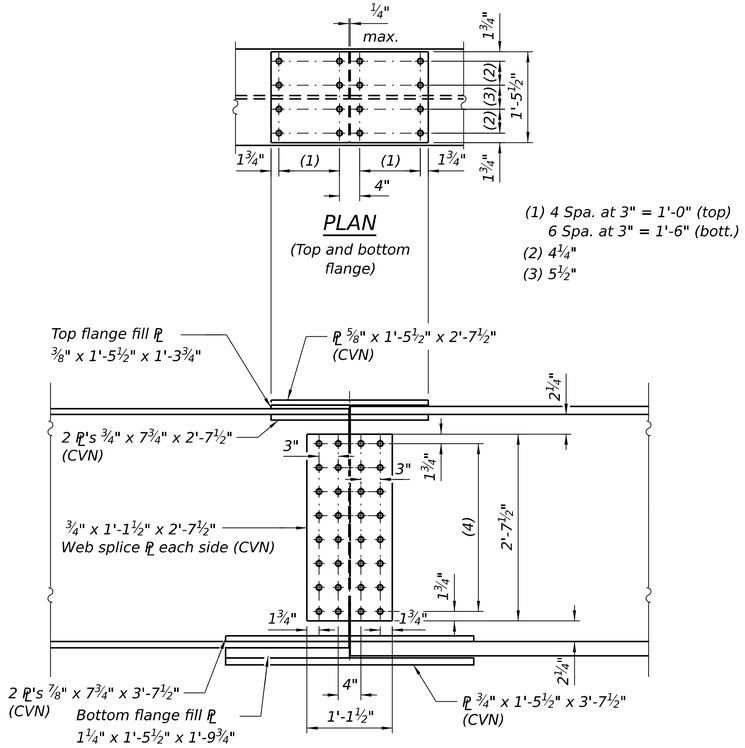
USER NAME = vtan	DESIGNED - DAC	REVISED -
	DRAWN - VT	REVISED -
	CHECKED - FAS	REVISED -
PLOT DATE = 5/21/2026	DATE - 8/18/2026	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FRAMING PLAN AND GIRDER ELEVATION
STRUCTURE NO. 001-0050 (SB) & 001-0051 (NB)

SCALE: | SHEET 27 OF 41 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-6VBR	ADAMS	113	61
		CONTRACT NO. 72250		
	ILLINOIS	FED. AID PROJECT		



ELEVATION

(1) 4 Spa. at 3" = 1'-0" (top)
6 Spa. at 3" = 1'-6" (bott.)
(2) 4¼"
(3) 5½"

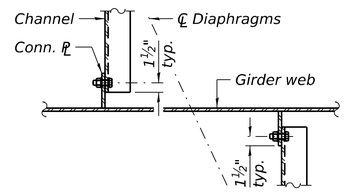
(4) 7 Spa. at 4" = 2'-4"

PLAN

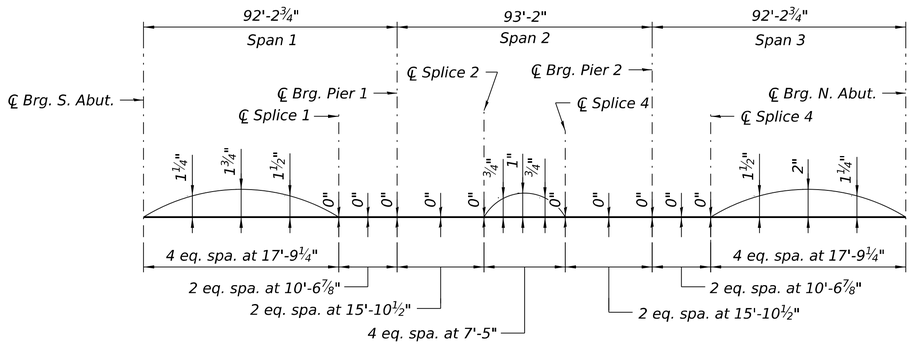
(Top and bottom flange)

FIELD SPLICE DETAIL

(56 required)



DETAIL A



CAMBER DIAGRAM

SB TOP OF WEB ELEVATIONS

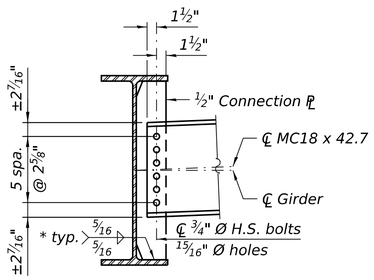
(For fabrication only)

	Girder 1	Girder 2	Girder 3	Girder 4	Girder 5	Girder 6	Girder 7
℄ Brg. S. Abut.	757.01	757.17	757.32	757.44	757.45	757.39	757.30
℄ Field Splice 1	757.27	757.41	757.54	757.65	757.64	757.57	757.48
℄ Brg. Pier 1	757.28	757.43	757.55	757.65	757.64	757.56	757.47
℄ Field Splice 2	757.31	757.45	757.56	757.66	757.64	757.56	757.46
℄ Field Splice 3	757.36	757.49	757.60	757.70	757.67	757.59	757.48
℄ Brg. Pier 2	757.44	757.56	757.67	757.76	757.73	757.64	757.53
℄ Field Splice 4	757.49	757.60	757.71	757.80	757.77	757.67	757.56
℄ Brg. N. Abut.	757.46	757.57	757.67	757.75	757.70	757.60	757.46

NB TOP OF WEB ELEVATIONS

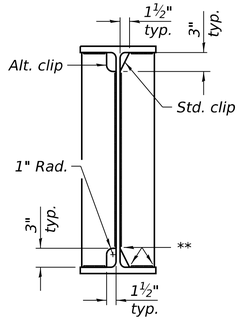
(For fabrication only)

	Girder 8	Girder 9	Girder 10	Girder 11	Girder 12	Girder 13	Girder 14
℄ Brg. S. Abut.	757.58	757.70	757.79	757.82	757.73	757.61	757.49
℄ Field Splice 1	757.55	757.66	757.73	757.75	757.65	757.52	757.40
℄ Brg. Pier 1	757.48	757.59	757.66	757.67	757.57	757.44	757.31
℄ Field Splice 2	757.39	757.48	757.55	757.56	757.45	757.32	757.18
℄ Field Splice 3	757.32	757.41	757.48	757.48	757.36	757.23	757.08
℄ Brg. Pier 2	757.28	757.36	757.42	757.42	757.30	757.16	757.00
℄ Field Splice 4	757.26	757.33	757.39	757.39	757.26	757.11	756.96
℄ Brg. N. Abut.	756.96	757.04	757.09	757.07	756.93	756.77	756.60



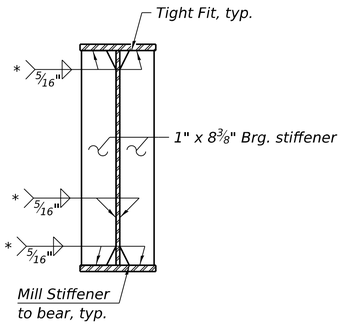
INTERIOR DIAPHRAGM

* 3 sides of each stiffener and/or connection PL.



WELD LIMITS AND CLIP DETAILS

** Stop welds ¼" (±⅛") from edges as shown. Typical.



SECTION AT BEARING STIFFENER

Notes:
1. All splice plates, except fill plates, shall be AASHTO M270 Grade 50.
2. Load carrying components designated "CVN" shall conform to the Charpy-V-Notch Impact Energy Requirements, Zone 2.

FILE NAME: L:\FurhmannEng\240070089-00_I-172\708900\CADD Data\Bridge\CADD Sheets\D672250 - 028 - Structural Steel Details - I.dgn

CMT
License No. 184-000613 © Copyright CMT, Inc.

USER NAME = vtan	DESIGNED - DAC	REVISED -	
	DRAWN - VT	REVISED -	
	CHECKED - FAS	REVISED -	
PLOT DATE = 5/27/2026	DATE - 8/18/2026	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURAL STEEL DETAILS - I
STRUCTURE NO. 001-0050 (SB) & 001-0051 (NB)

SCALE: | SHEET 28 OF 41 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-6VBR	ADAMS	113	62
		CONTRACT NO. 72250		
	ILLINOIS	FED. AID PROJECT		

GIRDER MOMENT TABLE										
		0.4 Sp. 1		Pier 1		0.5 Sp. 2		Pier 2		0.6 Sp. 3	
		Interior	Exterior	Interior	Exterior	Interior	Exterior	Interior	Exterior	Interior	Exterior
I_s	(in^4)	13,914	13,914	23,590	23,590	13,914	13,914	23,590	23,590	13,914	13,914
I_c (n)	(in^4)	33,395	33,961	--	--	33,395	33,961	--	--	33,395	33,961
I_c (3n)	(in^4)	24,387	24,879	--	--	24,387	24,879	--	--	24,387	24,879
I_c (cr)	(in^4)	--	--	28,028	28,028	--	--	28,028	28,028	--	--
S_s	(in^3)	762	762	1,465	1,465	762	762	1,465	1,465	762	762
S_c (n)	(in^3)	1,035	1,040	--	--	1,035	1,040	--	--	1,035	1,040
S_c (3n)	(in^3)	944	950	--	--	944	950	--	--	944	950
S_c (cr)	(in^3)	--	--	1,562	1,562	--	--	1,562	1,562	--	--
S_x	(in^3)	965	966	1,544	1,543	1,020	1,024	1,544	1,543	965	966
DC1	(k/')	0.90	0.90	1.01	1.01	0.90	0.90	1.01	1.01	0.90	0.90
M_{DC1}	('k)	564	591	909	951	121	126	909	951	564	591
DC2	(k/')	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
M_{DC2}	('k)	121	121	183	183	24	24	183	183	121	121
DW	(k/')	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
M_{DW}	('k)	182	182	275	275	35	35	275	275	182	182
LLDF		0.523	0.523	0.523	0.523	0.522	0.522	0.523	0.523	0.523	0.523
M_{L+IM}	('k)	996	995	1,193	1,194	822	822	1,193	1,194	996	995
f_t (Strength I)	(ksi)	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
$M_u + \frac{1}{3} f_t S_x$	('k)	3,139	3,173	--	--	1,957	1,964	--	--	3,139	3,173
$\Phi_f M_n$	('k)	5,304	5,353	--	--	5,304	5,353	--	--	5,304	5,353
f_s DC1	(ksi)	8.9	9.3	7.4	7.8	1.9	2.0	7.4	7.8	8.9	9.3
f_s DC2	(ksi)	1.5	1.5	1.4	1.4	0.3	0.3	1.4	1.4	1.5	1.5
f_s DW	(ksi)	2.3	2.3	2.1	2.1	0.5	0.4	2.1	2.1	2.3	2.3
f_s (L+IM)	(ksi)	11.5	11.5	9.2	9.2	9.5	9.5	9.2	9.2	11.5	11.5
f_t (Service II)	(ksi)	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
$f_s + {}^{f_t}/_2$ (Service II)	(ksi)	32.7	33.1	27.9	28.2	20.1	20.1	27.9	28.2	32.7	33.1
Service II Resistance	(ksi)	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5
$f_s + {}^{f_t}/_3$ (Strength I)	(ksi)	--	--	33.6	34.0	--	--	33.6	34.0	--	--
$\Phi_f F_n$	(ksi)	--	--	50.0	50.0	--	--	50.0	50.0	--	--
V_f	(k)	35.0	35.0	55.8	55.8	19.7	19.7	55.8	55.8	35.0	35.0

GIRDER REACTION TABLE									
		S. Abut.		Pier 1		Pier 2		N. Abut.	
		Interior	Exterior	Interior	Exterior	Interior	Exterior	Interior	Exterior
LLDF		0.671	0.671	0.671	0.671	0.671	0.671	0.671	0.671
OCF		1.30	1.30	--	--	--	--	1.30	1.30
R_{DC1}	(k)	43.4	43.4	103.2	103.2	103.2	103.2	43.4	43.4
R_{DC2}	(k)	28.4	28.4	19.6	19.6	19.6	19.6	28.4	28.4
R_{DW}	(k)	14.5	14.5	29.5	29.5	29.5	29.5	14.5	14.5
R_L	(k)	108.2	108.6	110.7	110.7	110.7	110.7	108.2	108.6
R_{Im}	(k)	24.5	24.5	21.9	21.9	21.9	21.9	24.5	24.5
R_{Total} (Strength I)(Impact)	(k)	343.7	344.5	429.8	429.8	429.8	429.8	343.7	344.5
R_{Total} (Strength I)(No Impact)	(k)	300.9	301.5	391.5	391.5	391.5	391.5	300.9	301.5

Note:
Abutment reactions in Girder Reaction Table include dead load and live load from approach slab and concrete diaphragm.

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^4 and in^3).*

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^4 and in^3).*

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^4 and in^3).*

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^4 and in^3).*

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^3).*

DC1: *Un-factored non-composite dead load (kips/ft.).*

M_{DC1}: *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_{DC2}: *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_{DW} : *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_{L+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_{DC1} + M_{DC2}) + 1.5 M_{DW} + 1.75 M_{L+IM}

f_t : *Factored calculated flange lateral bending stress as calculated using Article 6.10.1.6 and as further simplified by IDOT provisions (ksi).*

$\Phi_f M_n$: *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_{DC1} / S_s

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_{DC2} / S_c (3n) or M_{DC2} / S_c (cr) 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_{DW} / S_c (3n) or M_{DW} / S_c (cr) as applicable.

f_s (L+ 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_{L+IM} / S_c (n) or M_{L+IM} / S_c (cr) 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 (L+ IM) + f_t /2

Service II Resistance: *Composite ($0.95R_hF_{yf}$) or noncomposite ($0.80R_hF_{yf}$) 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 (L+ IM) + f_t /3

$\Phi_f F_n$: *Factored nominal flexural resistance of the section as specified in Article 6.10.7.2 or 6.10.8 as applicable (ksi).*

V_f: *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_{DC1}: *Un-factored reaction due to non-composite dead load (kip).*

R_{DC2}: *Un-factored reaction due to long-term composite (superimposed excluding future wearing surface) dead load (kip).*

R_{DW} : *Un-factored reaction due to long-term composite (superimposed future wearing surface only) dead load (kip).*

R_L : *Un-factored live load reaction (kip).*

R_{IM} : *Un-factored dynamic load allowance (impact) (kip).*

R_{Total} (Strength I)(Impact): *Strength I load combination of factored design reactions (kip).*
1.25 (R_{DC1} + R_{DC2}) + 1.5R_{DW} + 1.75 (R_L + R_{IM})

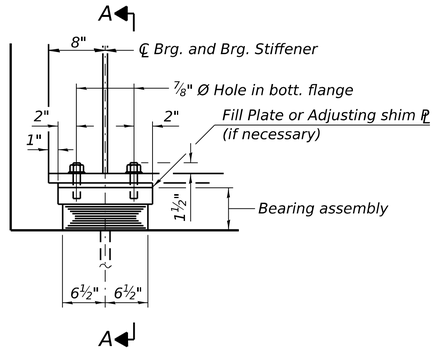
R_{Total} (Strength I)(No Impact): *Strength I load combination of factored design reactions, not including dynamic load allowance (Impact) (kip).*
1.25 (R_{DC1} + R_{DC2}) + 1.5R_{DW} + 1.75 (R_L)

FILE NAME: :\FurhmannEng\24007089-00 I-172\708900\CADD Data\Bridge\CADD Sheets\D672250 - 029 - Structural Steel Details - II.dgn

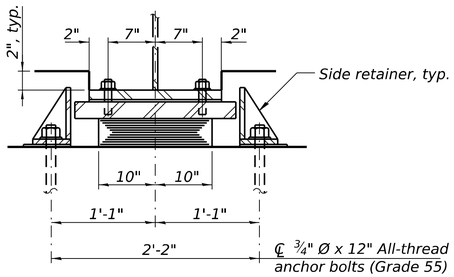
CMT
License No. 184-000613 © Copyright CMT, Inc.

USER NAME = vtan	DESIGNED - DAC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STRUCTURAL STEEL DETAILS - II STRUCTURE NO. 001-0050 (SB) & 001-0051 (NB)
	DRAWN - VT	REVISED -		
	CHECKED - FAS	REVISED -		
PLOT DATE = 5/20/2026	DATE - 8/18/2026	REVISED -		SCALE: SHEET 29 OF 41 SHEETS STA. TO STA.

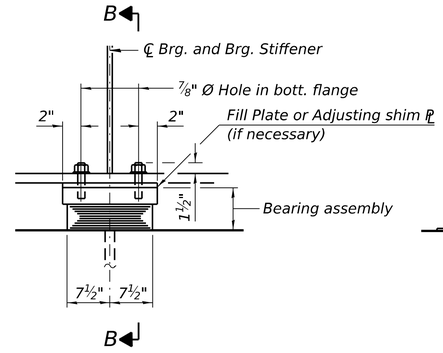
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-6VBR	ADAMS	113	63
		CONTRACT NO. 72250		
	ILLINOIS	FED. AID PROJECT		



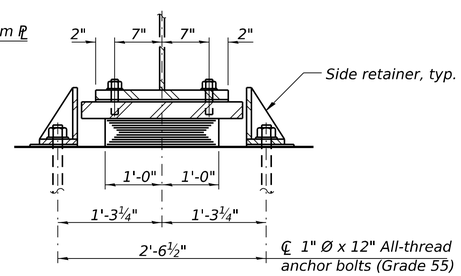
ELEVATION AT S. & N. ABUT.



SECTION A-A

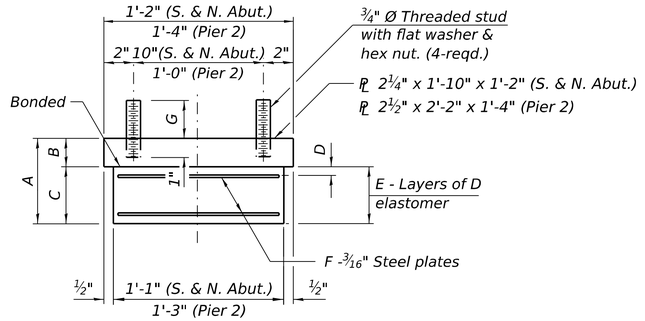


ELEVATION AT PIER 2



SECTION B-B

TYPE I ELASTOMERIC EXP. BRG.



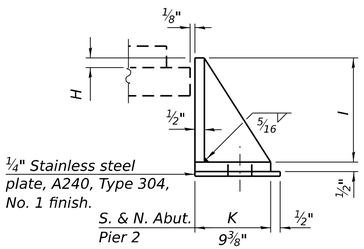
BEARING ASSEMBLY

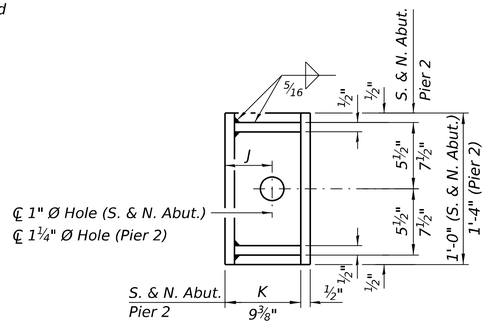
Location	A	B	C	D	E	F
S. Abut.	4½"	2¼"	2¼"	5/8"	3	2
Pier 2	5⅛"	2½"	2⅝"	¾"	3	2
N. Abut.	6 15/16"	2¼"	4 11/16"	5/8"	6	5

	G						
Location	Girder 1	Girder 2	Girder 3	Girder 4	Girder 5	Girder 6	Girder 7
S. Abut.	3⅜"	3⅜"	3⅜"	4"	3⅜"	3⅜"	3⅜"
Pier 1	--	--	--	--	--	--	--
Pier 2	3⅞"	3⅞"	3⅞"	4¼"	3⅞"	3⅞"	3⅞"
N. Abut.	2⅝"	2⅝"	2⅝"	2⅝"	3"	2⅝"	2⅝"

	G						
Location	Girder 8	Girder 9	Girder 10	Girder 11	Girder 12	Girder 13	Girder 14
S. Abut.	3⅛"	3⅛"	3⅛"	3½"	3⅛"	3⅛"	3⅛"
Pier 1	--	--	--	--	--	--	--
Pier 2	3⅞"	3⅞"	3⅞"	3⅞"	3⅞"	3⅞"	3⅞"
N. Abut.	2⅝"	3 7/16"	2⅞"	2⅝"	2⅝"	2⅝"	2⅝"

Note:
Shim plates shall not be placed under bearing assembly.





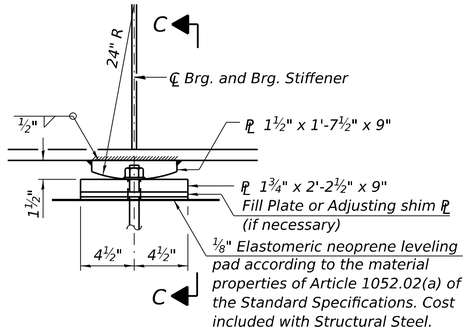
SIDE RETAINER

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

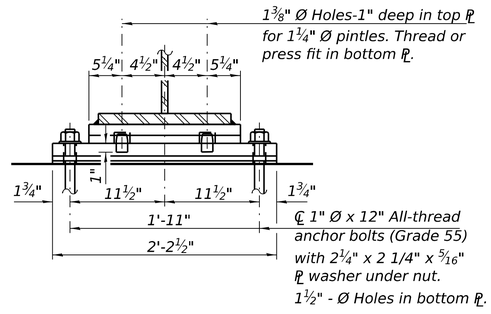
Location	H	I	J
S. Abut.	¾"	4½"	1⅞"
Pier 2	⅝"	5"	2⅛"
N. Abut.	13/16"	7"	1⅞"

K		
Location	W. Retainer	E. Retainer
SB & NB S. Abut.	7⅞"	5¼"
SB & NB N. Abut.	5¼"	7⅞"

TYPE I ELASTOMERIC EXP. BRG.

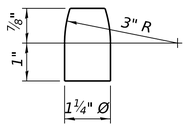


ELEVATION AT PIER 1



SECTION C-C

FIXED BEARING



PINTLE

FILL PLATE THICKNESS

Location	Girder 1	Girder 2	Girder 3	Girder 4	Girder 5	Girder 6	Girder 7
S. Abut.	¾"	¾"	¾"	1⅜"	¾"	¾"	¾"
Pier 1	--	--	--	⅛"	--	--	--
Pier 2	--	--	--	⅜"	--	--	--
N. Abut.	--	--	--	--	⅜"	--	--

Location	Girder 8	Girder 9	Girder 10	Girder 11	Girder 12	Girder 13	Girder 14
S. Abut.	½"	½"	½"	⅞"	½"	½"	½"
Pier 1	--	--	--	⅛"	--	--	--
Pier 2	--	--	--	--	--	--	--
N. Abut.	--	13/16"	¼"	--	--	--	--

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type I	Each	42
Anchor Bolts, ¾"	Each	56
Anchor Bolts, 1"	Each	56

Notes:
1. The structural steel plates of the Bearing Assembly, the structural steel plates of the fixed bearings, and the pintles of the fixed bearings shall conform to the requirements of AASHTO M270 Grade 50.
2. 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.
3. Side retainers and stainless steel plates shall be included in the cost of Elastomeric Bearing Assembly, Type I.
4. Anchor bolts and side retainers at all supports shall be installed as each member is erected unless an equivalent temporary means of lateral restraint is used.
5. All separate bearing plates, side retainers, anchor bolts, nuts, washers, and pintles shall be galvanized according to AASHTO M111 or M232 as applicable.

FILE NAME: L:\FurhmannEng\24007089-00_I-172\7089000\CADD Data\Bridge\CADD Sheets\D672250 - 030 - Bearing Details.dgn

CMT
License No. 184-000613
© Copyright CMT, Inc.

USER NAME = vtan
PLOT DATE = 5/28/2026

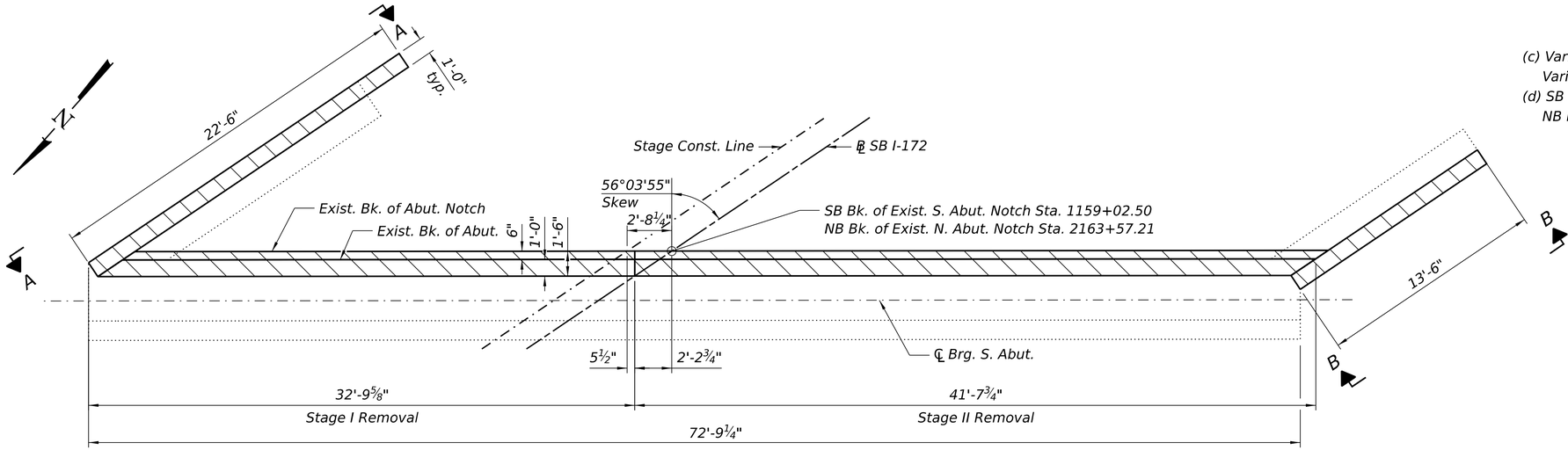
DESIGNED - DAC		REVISED -
DRAWN - VT		REVISED -
CHECKED - FAS		REVISED -
DATE - 8/18/2026		REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BEARING DETAILS
STRUCTURE NO. 001-0050 (SB) & 001-0051 (NB)

SCALE: | SHEET 30 OF 41 SHEETS | STA. | TO STA.

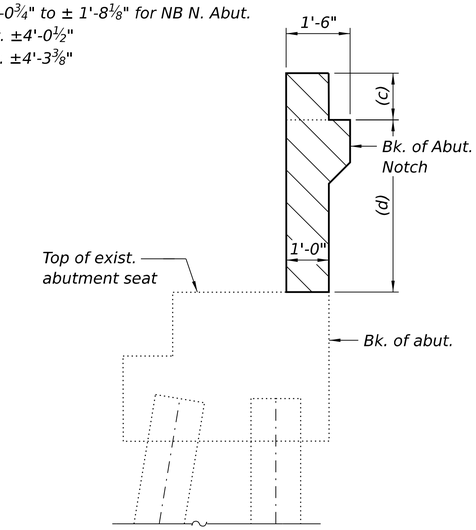
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-6VBR	ADAMS	113	64
		CONTRACT NO. 72250		
	ILLINOIS	FED. AID PROJECT		



PLAN

(SB south abutment shown; NB north abutment similar by 180° rotation)

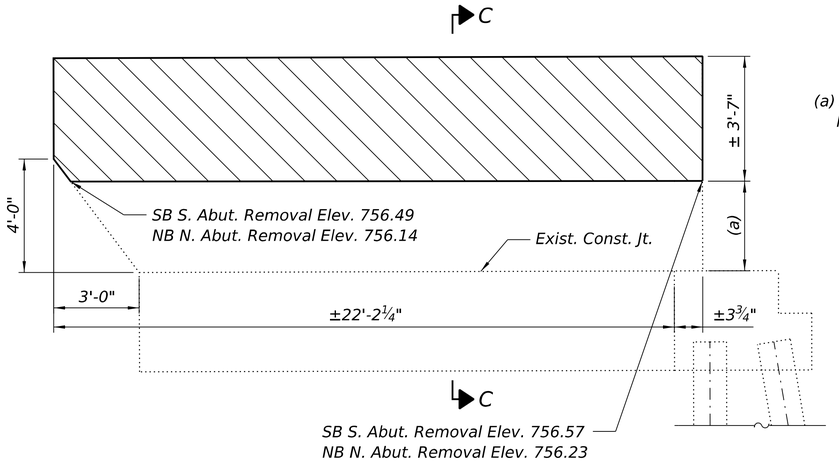
(c) Varies ± 1'-1" to ± 1'-7⅞" for SB S. Abut.
Varies ± 1'-0¾" to ± 1'-8⅛" for NB N. Abut.
(d) SB S. Abut. ±4'-0½"
NB N. Abut. ±4'-3⅜"



SECTION THRU ABUTMENT

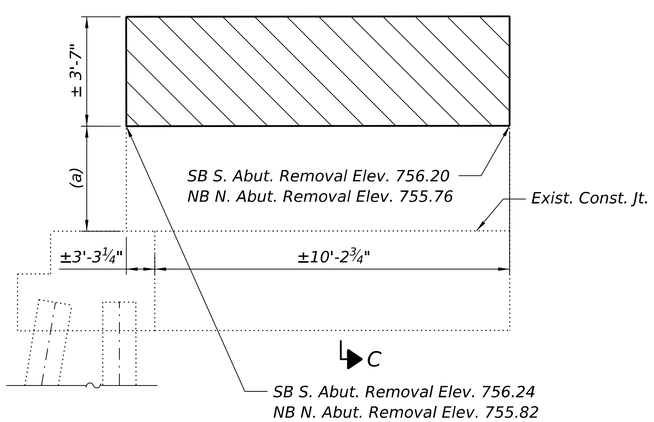
LEGEND

Concrete Removal

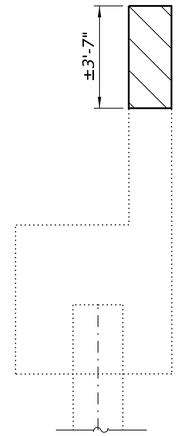


SECTION A-A

(a) SB S. Abut. ± 4'-0"
NB N. Abut. ± 4'-2"



SECTION B-B



SECTION C-C

SB SOUTH ABUTMENT BILL OF MATERIAL

Item	Unit	Total
Concrete Removal	Cu. Yd.	21.8

NB NORTH ABUTMENT BILL OF MATERIAL

Item	Unit	Total
Concrete Removal	Cu. Yd.	22.5

Notes:
1. Remove all concrete above the bearing seat elevation.
2. Existing concrete shall be inspected and sounded by Contractor. Delaminated concrete shall be removed down to sound concrete and included in Concrete Removal.
3. Saw cut full thickness and seal end of reinforcement bars with epoxy. Cost included with Concrete Removal.

FILE NAME: L:\FurhmannEng\240070893-00_I-172\708900\CADD Data\Bridge\CADD Sheets\D6722250 - 031 - Abutment Removal - I.dgn

CMT
License No. 184-000613
© Copyright CMT, Inc.

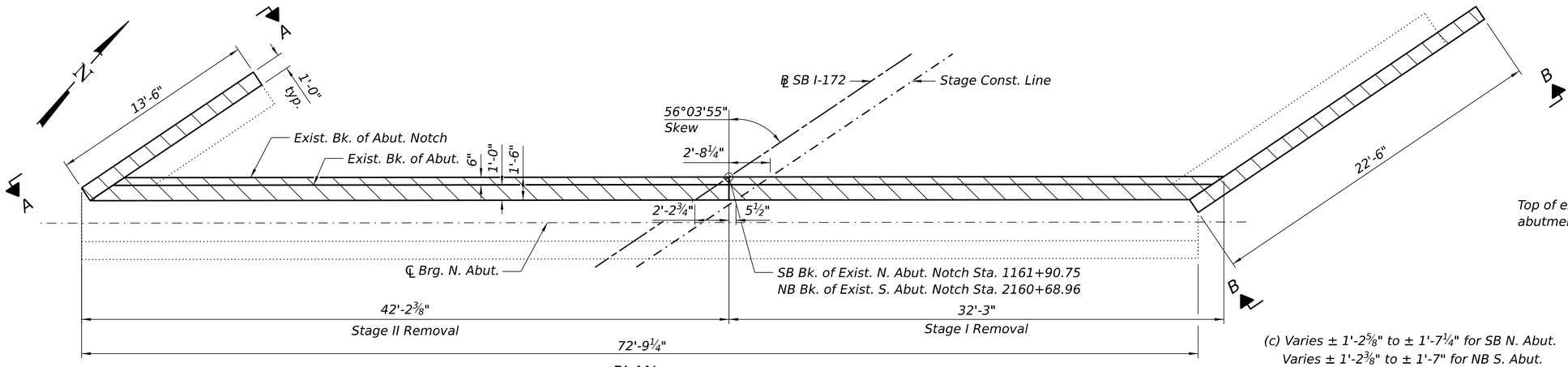
USER NAME = areinwart	DESIGNED - AFR	REVISED -
	DRAWN - VT	REVISED -
	CHECKED - DAC	REVISED -
PLOT DATE = 9/23/2026	DATE - 8/18/2026	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ABUTMENT REMOVAL - I
STRUCTURE NO. 001-0050 (SB) & 001-0051 (NB)

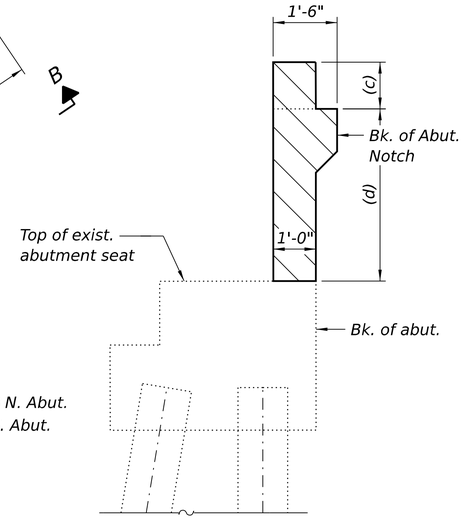
SCALE: | SHEET 31 OF 41 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-6VBR	ADAMS	113	65
		CONTRACT NO. 72250		
	ILLINOIS	FED. AID PROJECT		



PLAN

(SB north abutment shown; NB south abutment similar by 180° rotation)

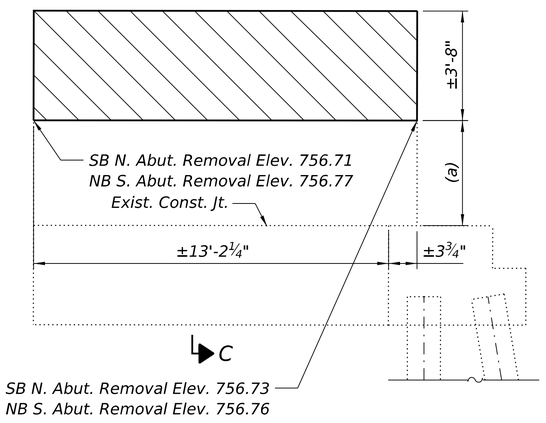


(c) Varies ± 1'-2⅝" to ± 1'-7¼" for SB N. Abut.
Varies ± 1'-2⅜" to ± 1'-7" for NB S. Abut.
(d) SB N. Abut. ±4'-1¾"
NB S. Abut. ±3'-11½"

LEGEND

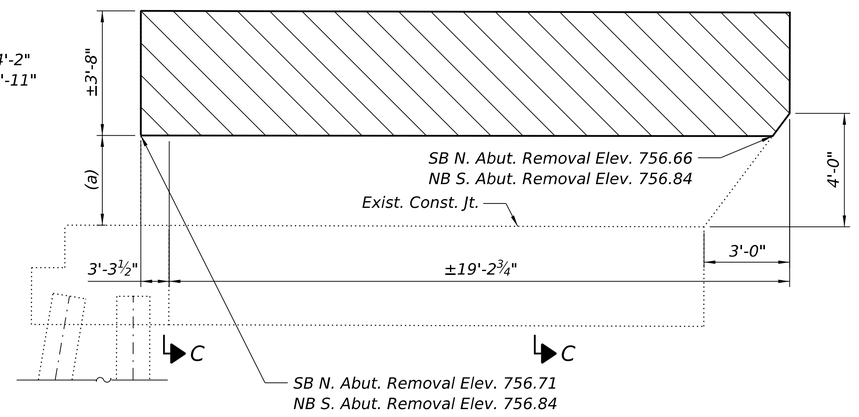
Concrete Removal

SECTION THRU ABUTMENT



SECTION A-A

(a) SB N. Abut. ± 4'-2"
NB S. Abut. ± 3'-11"



SECTION B-B

SECTION C-C

SB NORTH ABUTMENT BILL OF MATERIAL

Item	Unit	Total
Concrete Removal	Cu. Yd.	22.3

NB SOUTH ABUTMENT BILL OF MATERIAL

Item	Unit	Total
Concrete Removal	Cu. Yd.	21.7

Notes:
1. Remove all concrete above the bearing seat elevation.
2. Existing concrete shall be inspected and sounded by Contractor. Delaminated concrete shall be removed down to sound concrete and included in Concrete Removal.
3. Saw cut full thickness and seal end of reinforcement bars with epoxy. Const included with Concrete Removal.

FILE NAME: L:\FurhmannEng\240070893-00_I-172\708900\CADD Data\Bridge\CADD Sheets\D6722250 - 032 - Abutment Removal - II.dgn

CMT
License No. 184-000613
© Copyright CMT, Inc.

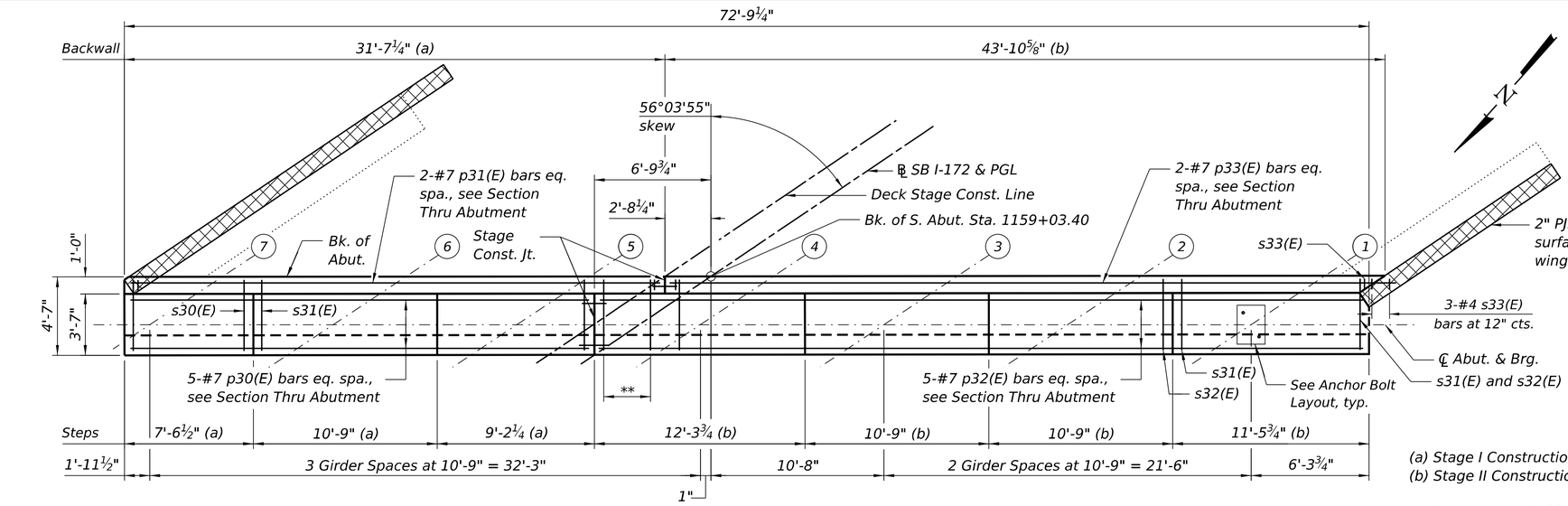
USER NAME = dcochran	DESIGNED - AFR	REVISED -
	DRAWN - VT	REVISED -
	CHECKED - DAC	REVISED -
PLOT DATE = 6/8/2026	DATE - 8/18/2026	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

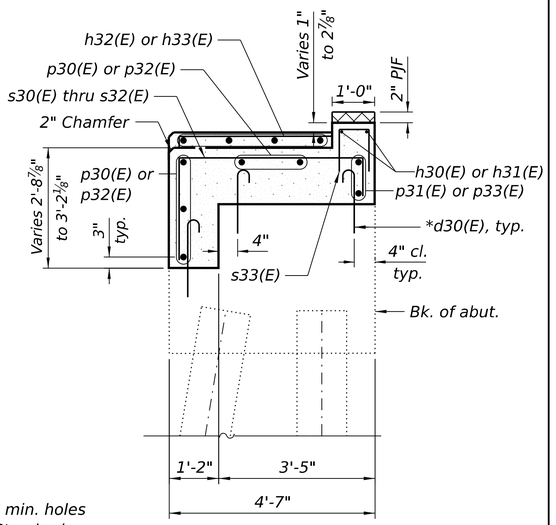
ABUTMENT REMOVAL - II
STRUCTURE NO. 001-0050 (SB) & 001-0051 (NB)

SCALE: | SHEET 32 OF 41 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-6VBR	ADAMS	113	66
		CONTRACT NO. 72250		
	ILLINOIS	FED. AID PROJECT		



PLAN

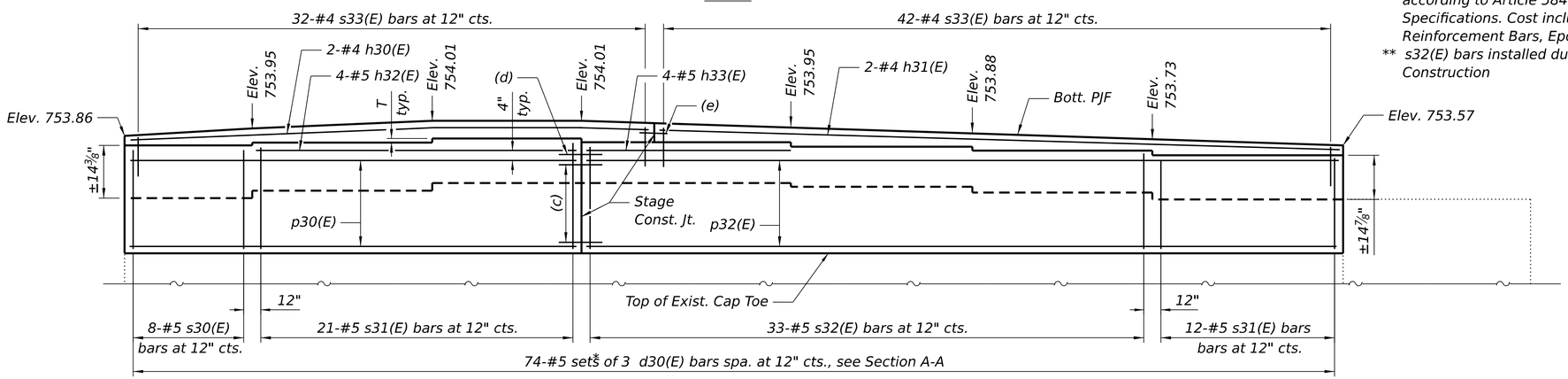


SECTION THRU ABUTMENT

(a) Stage I Construction
(b) Stage II Construction

* Drill and grout d30(E) bars in 9" min. holes according to Article 584 of the Standard Specifications. Cost included with Reinforcement Bars, Epoxy Coated, typ.

** s32(E) bars installed during Stage 1 Construction

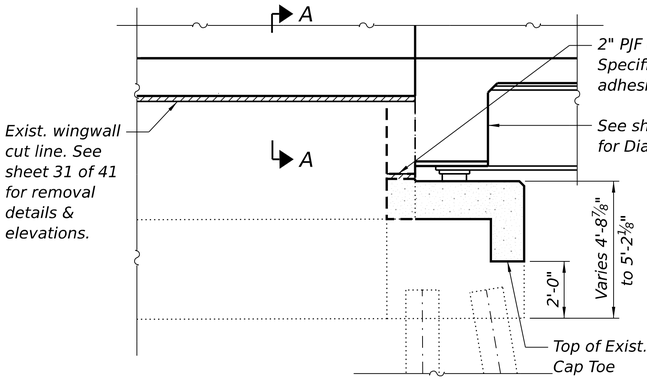


ELEVATION

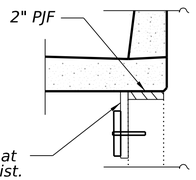
(Looking south)

Girder No.	Exist. Seat Elevation	Brg. Seat Elevation	Step "T"
1	± 752.25	753.49	
2	± 752.40	753.65	1⅞"
3	± 752.53	753.80	1¾"
4	± 752.73	753.87	⅞"
5	± 752.72	753.93	¾"
6	± 752.67	753.87	¾"
7	± 752.58	753.78	1⅛"

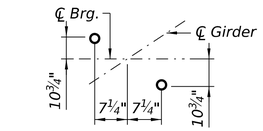
(c) 5-Bar Splicers (E) for #7 p30(E) and p32(E) bars, fr. face & 2-Bar Splicers (E) for #7 p31(E) and p33(E) bars, bk. face
(d) 4-Bar Splicers (E) for #5 h32(E) and h33(E) bars
(e) 2-Bar Splicers (E) for #4 h30(E) and h31(E) bars



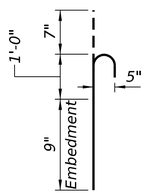
TYPICAL WINGWALL ELEVATION



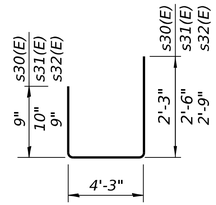
SECTION A-A



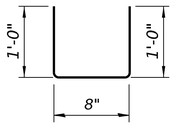
ANCHOR BOLT LAYOUT



BAR d30(E)



BARS s30(E), s31(E), & s32(E)



BAR s33(E)

LEGEND

2" PJF

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d30(E)	222	#5	2'-4"	
h30(E)	2	#4	31'-3"	
h31(E)	2	#4	40'-10"	
h32(E)	4	#5	19'-7"	
h33(E)	4	#5	11'-11"	
p30(E)	5	#7	27'-1"	
p31(E)	2	#7	31'-3"	
p32(E)	5	#7	44'-11"	
p33(E)	2	#7	40'-10"	
s30(E)	8	#5	7'-3"	
s31(E)	33	#5	7'-7"	
s32(E)	34	#5	7'-9"	
s33(E)	77	#4	2'-8"	
Concrete Structures			Cu. Yd.	22.2
Reinforcement Bars, Epoxy Coated			Pound	2,540

FILE NAME: L:\Furhmann\Eng\240070893-00_I-172\708900\CADD Data\Bridge\CADD Sheets\D6722250 - 033 - South Abutment Details - SB.dgn

CMT
License No. 184-000613
© Copyright CMT, Inc.

USER NAME = areinwart
PLOT DATE = 9/23/2026

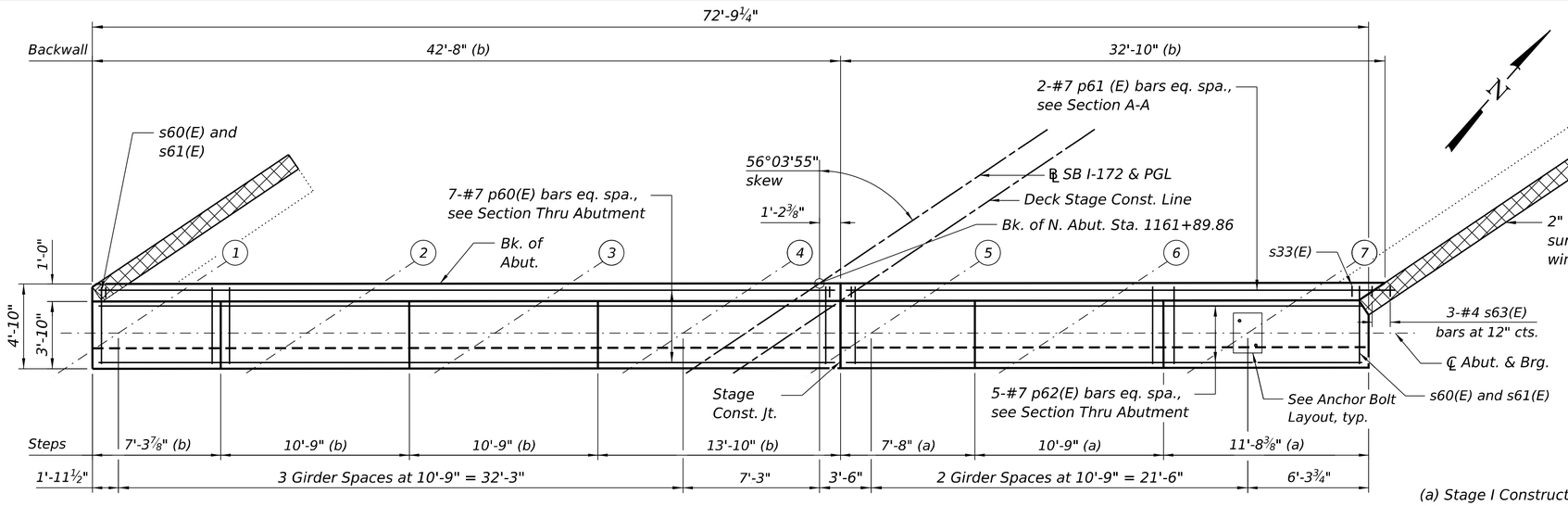
DESIGNED - AFR	REVISED -	
DRAWN - VT	REVISED -	
CHECKED - DAC	REVISED -	
DATE - 8/18/2026	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

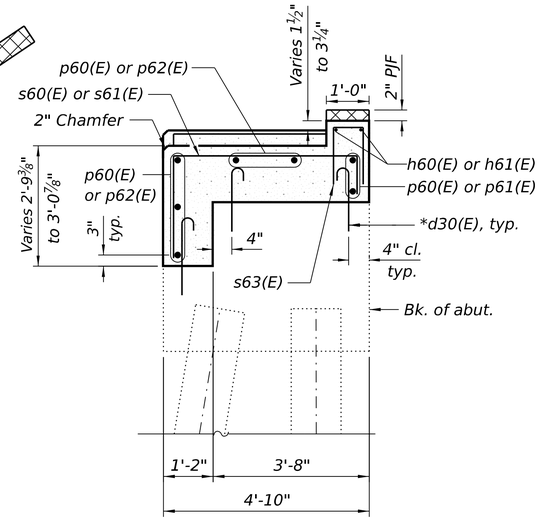
SOUTH ABUTMENT DETAILS - SB
STRUCTURE NO. 001-0050 (SB) & 001-0051 (NB)

SCALE: | SHEET 33 OF 41 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-6VBR	ADAMS	113	67
		CONTRACT NO. 72250		
		ILLINOIS	FED. AID PROJECT	



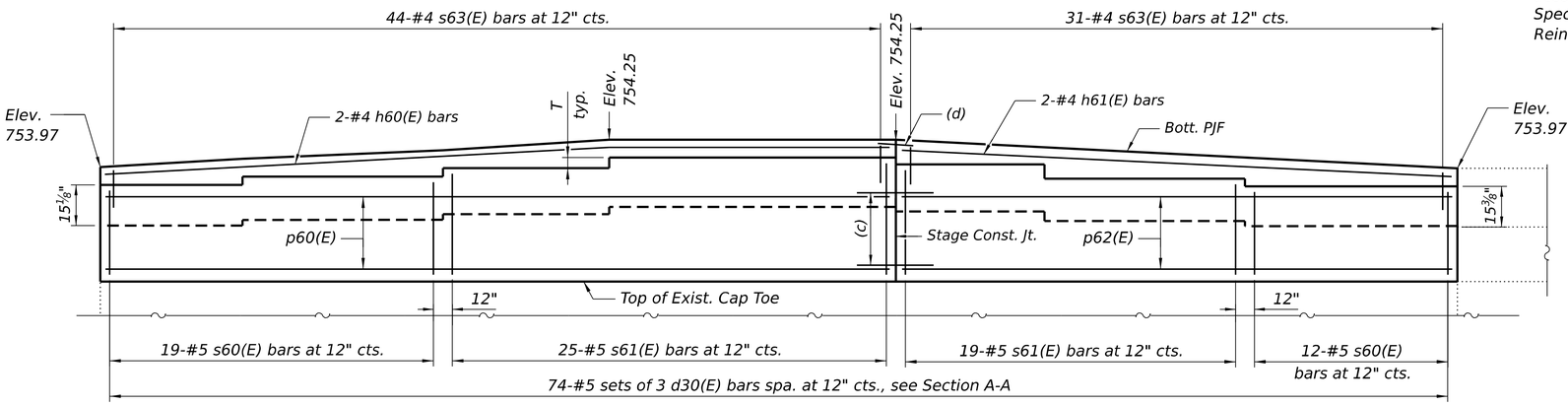
PLAN



SECTION THRU ABUTMENT

(a) Stage I Construction
(b) Stage II Construction

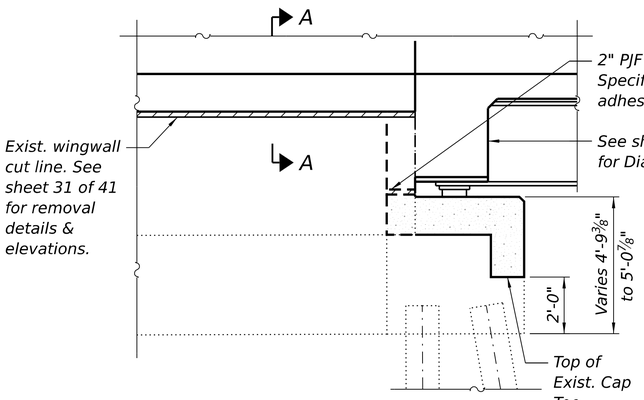
* Drill and grout d30(E) bars in 9" min. holes according to Article 584 of the Standard Specifications. Cost included with Reinforcement Bars, Epoxy Coated, typ.



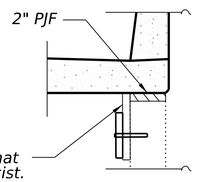
ELEVATION
(Looking north)

(c) 7-Bar Splicers (E) for #7 p60(E) and p61(E) or p62(E) bars
(d) 2-Bar Splicers (E) for #4 h60(E) and h61(E) bars

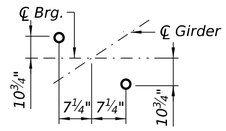
Girder No.	Exist. Seat Elevation	Brg. Seat Elevation	Step "T"
1	±752.54	753.80	
2	±752.68	753.91	1⅜"
3	±752.74	754.00	1⅛"
4	±752.82	754.08	1"
5	±752.76	754.00	1"
6	±752.66	753.93	⅞"
7	±752.52	753.80	1½"



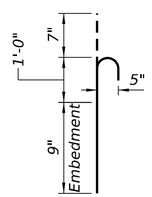
TYPICAL WINGWALL ELEVATION



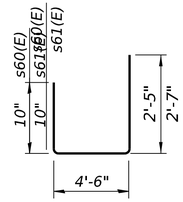
SECTION A-A



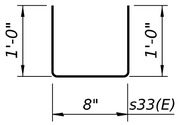
ANCHOR BOLT LAYOUT



BAR d30(E)



BARS s60(E) & s61(E)



BARS s63(E)

LEGEND

2" PJF

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d30(E)	222	#5	2'-4"	
h60(E)	2	#4	42'-3"	
h61(E)	2	#4	32'-6"	
p60(E)	7	#7	42'-3"	
p61(E)	2	#7	32'-6"	
p62(E)	5	#7	29'-9"	
s60(E)	31	#5	7'-9"	
s61(E)	44	#5	7'-11"	
s63(E)	78	#4	2'-8"	
Concrete Structures		Cu. Yd.	23.2	
Reinforcement Bars, Epoxy Coated		Pound	2,440	

FILE NAME: ...\FurhmannEng\240070089-00_I-172\708900\CADD Data\Bridge\CADD Sheets\D6722250 - 034 - North Abutment Details - SB.dgn

CMT
License No. 184-000613 ©Copyright CMT, Inc.

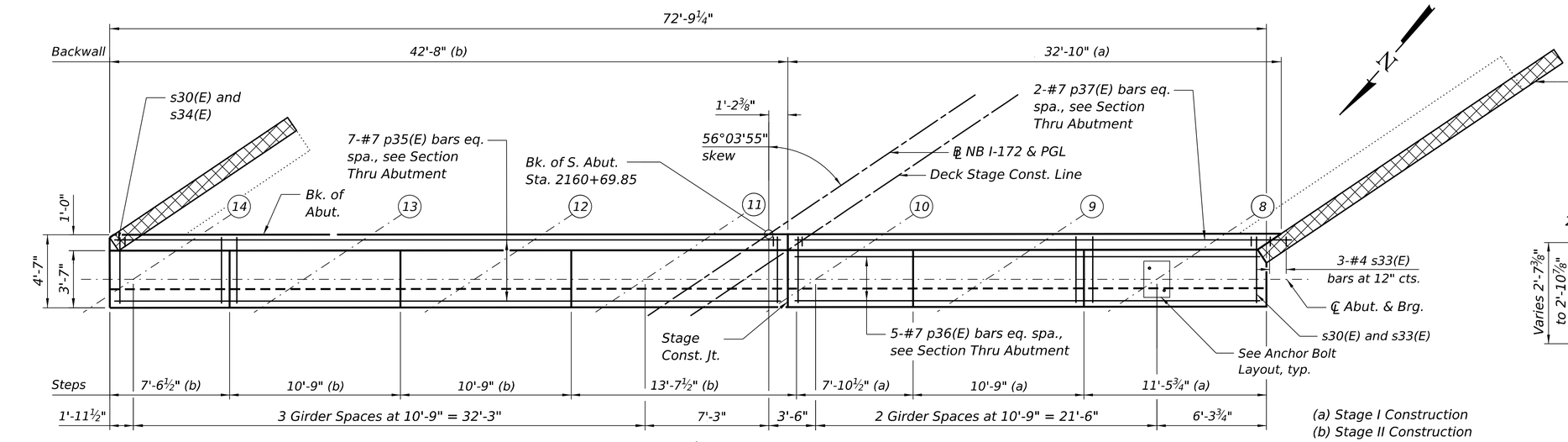
USER NAME = areinwart	DESIGNED - AFR	REVISED -
	DRAWN - VT	REVISED -
	CHECKED - DAC	REVISED -
PLOT DATE = 6/8/2026	DATE - 8/18/2026	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

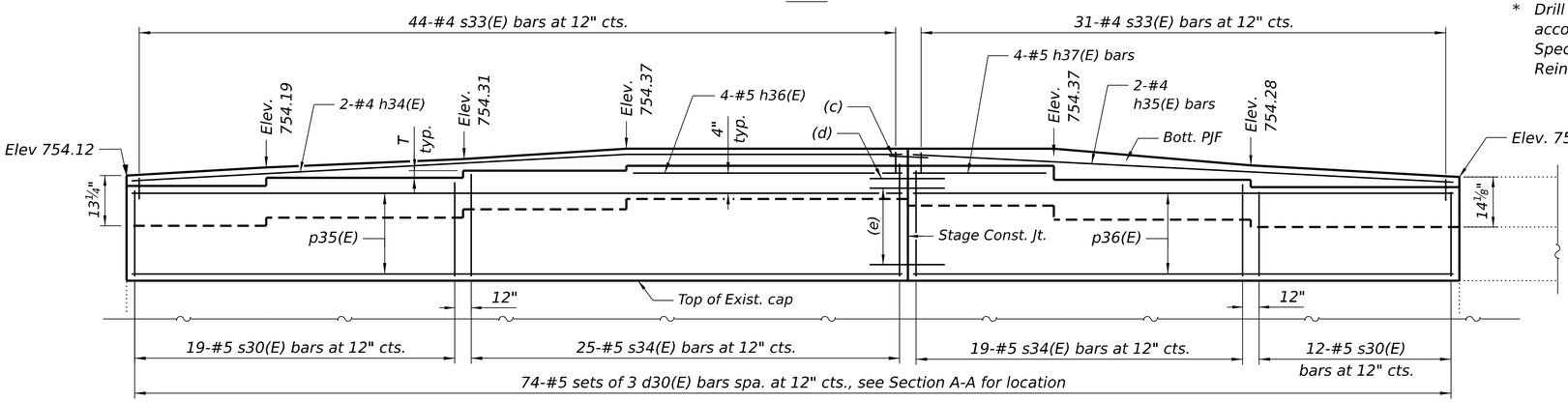
NORTH ABUTMENT DETAILS - SB
STRUCTURE NO. 001-0050 (SB) & 001-0051 (NB)

SCALE: | SHEET 34 OF 41 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-6VBR	ADAMS	113	68
		CONTRACT NO. 72250		
	ILLINOIS FED. AID PROJECT			

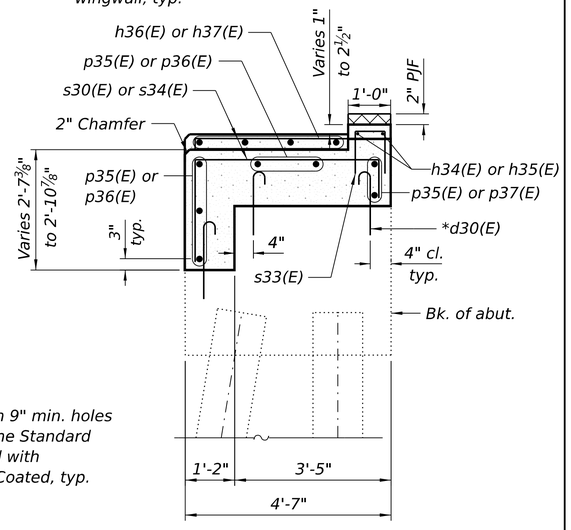


Plan



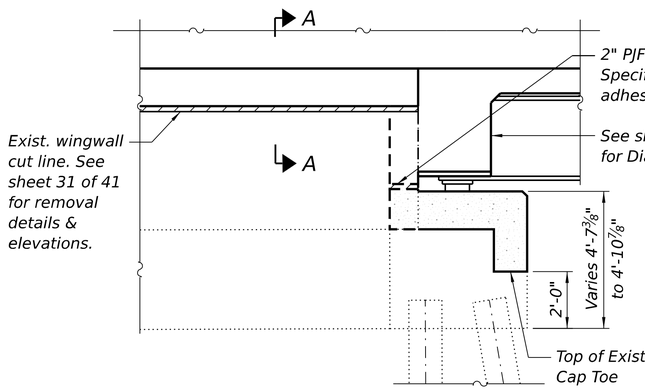
(a) Stage I Construction
(b) Stage II Construction

* Drill and grout d30(E) bars in 9" min. holes according to Article 584 of the Standard Specifications. Cost included with Reinforcement Bars, Epoxy Coated, typ.



SECTION THRU ABUTMENT

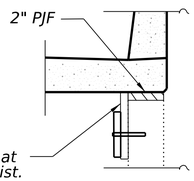
Girder No.	Exist. Seat Elevation	Brg. Seat Elevation	Step "T"
8	±752.90	754.08	1½"
9	±753.01	754.20	1⅛"
10	±753.11	754.29	--
11	±753.17	754.29	¾"
12	±753.09	754.23	1½"
13	±752.98	754.11	1½"
14	±752.88	753.99	1½"



TYPICAL WINGWALL ELEVATION

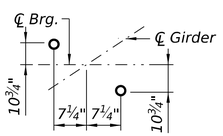
ELEVATION

(Looking south)



SECTION A-A

(c) 2-Bar Splicers (E) for #4 h34(E) and h35(E) bars
(d) 4-Bar Splicers (E) for #5 h35(E) and h36(E) bars
(e) 7-Bar Splicers (E) for #7 p35(E) and p36(E) or p37(E) bars



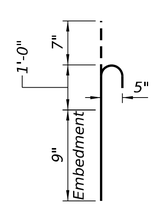
ANCHOR BOLT LAYOUT

LEGEND

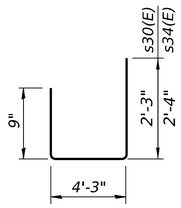
2" PJF

BILL OF MATERIAL

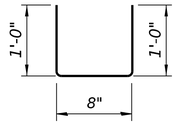
Bar	No.	Size	Length	Shape
d30(E)	222	#5	2'-4"	
h34(E)	2	#4	42'-3"	
h35(E)	2	#4	32'-6"	
h36(E)	4	#5	13'-3"	
h37(E)	4	#5	7'-4"	
p35(E)	7	#7	42'-3"	
p36(E)	2	#7	32'-6"	
p37(E)	5	#7	29'-9"	
s30(E)	30	#5	7'-3"	
s33(E)	78	#4	2'-8"	
s34(E)	44	#5	7'-6"	
Concrete Structures		Cu. Yd.	20.7	
Reinforcement Bars, Epoxy Coated		Pound	2,480	



BAR d30(E)



BARS s30(E) & s34(E)



BAR s33(E)

FILE NAME: L:\FurhmannEng\240070089-00_I-172\70890\CADD Data\Bridge\CADD Sheets\D6722250 - 035 - South Abutment Details - NB.dgn

CMT
License No. 184-000613
© Copyright CMT, Inc.

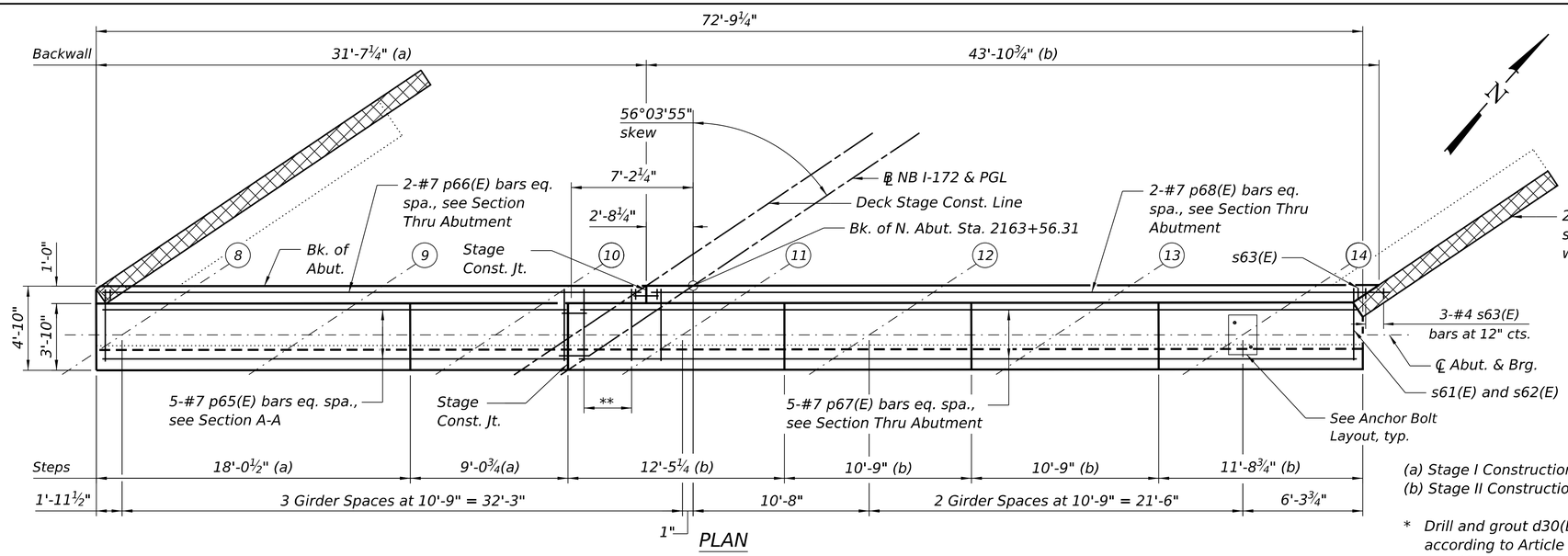
USER NAME = vtan	DESIGNED - AFR	REVISED -	
	DRAWN - VT	REVISED -	
	CHECKED - DAC	REVISED -	
PLOT DATE = 6/9/2026	DATE - 8/18/2026	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOUTH ABUTMENT DETAILS - NB
STRUCTURE NO. 001-0050 (SB) & 001-0051 (NB)

SCALE: | SHEET 35 OF 41 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-6VBR	ADAMS	113	69
		CONTRACT NO. 72250		
		ILLINOIS	FED. AID PROJECT	

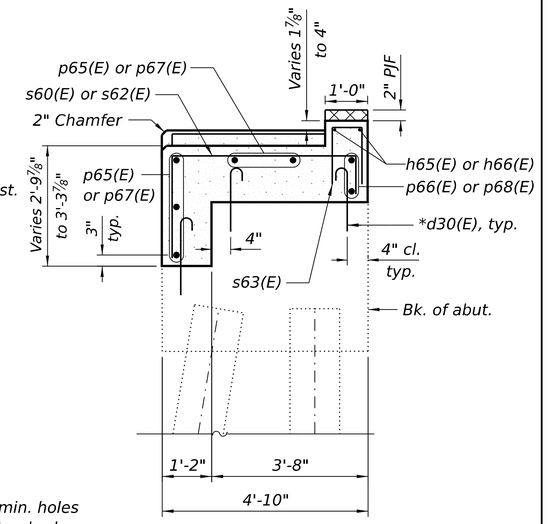


PLAN

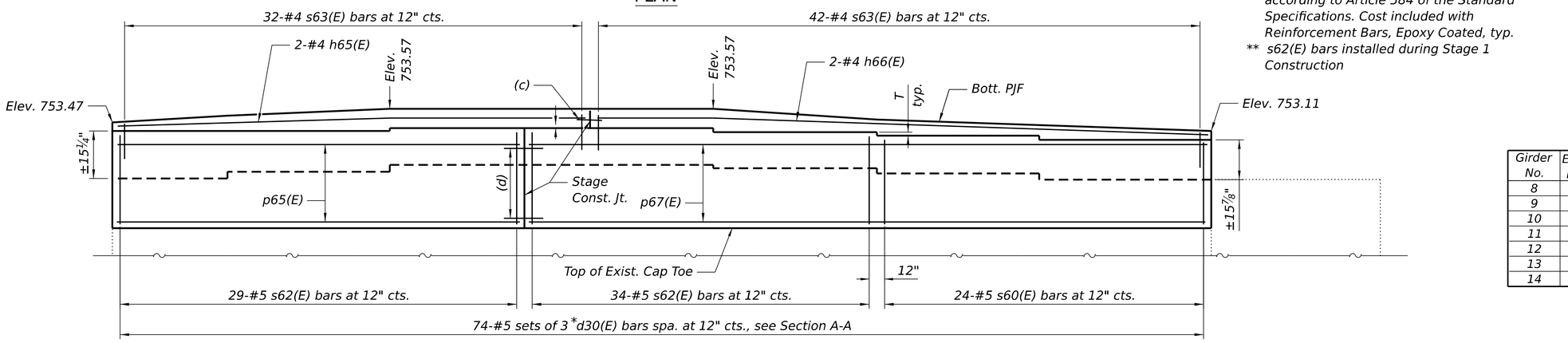
(a) Stage I Construction
(b) Stage II Construction

* Drill and grout d30(E) bars in 9" min. holes according to Article 584 of the Standard Specifications. Cost included with Reinforcement Bars, Epoxy Coated, typ.

** s62(E) bars installed during Stage 1 Construction



SECTION THRU ABUTMENT

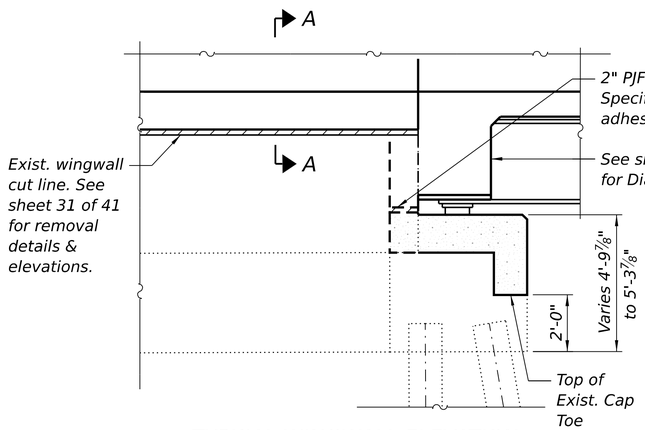


ELEVATION

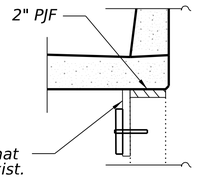
(Looking north)

(c) 2-Bar Splicers (E) for #4 h65(E) and h66(E) bars
(d) 5-Bar Splicers (E) for #7 p65(E) and p67(E) bars, fr. face & 2-Bar Splicers (E) for #7 p66(E) and p68(E) bars, bk. face

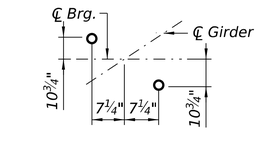
Girder No.	Exist. Seat Elevation	Brg. Seat Elevation	Step "T"
8	±752.03	753.30	--
9	±752.08	753.30	1¼"
10	±752.05	753.40	--
11	±752.07	753.40	1⅝"
12	±751.92	753.26	1¾"
13	±751.78	753.11	2"
14	±751.62	752.94	



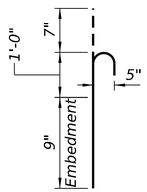
TYPICAL WINGWALL ELEVATION



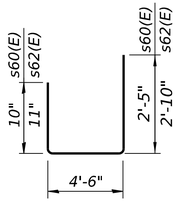
SECTION A-A



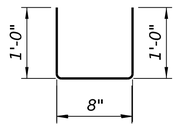
ANCHOR BOLT LAYOUT



BAR d30(E)



BARS s60(E) & s62(E)



BAR s63(E)

LEGEND

2" PJF

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d30(E)	222	#5	2'-4"	
h65(E)	2	#4	31'-3"	
h66(E)	2	#4	43'-6"	
p65(E)	5	#7	26'-9"	
p66(E)	2	#7	31'-3"	
p67(E)	5	#7	45'-4"	
p68(E)	2	#7	43'-6"	
s60(E)	24	#5	7'-9"	
s62(E)	63	#5	8'-3"	
s63(E)	74	#4	2'-8"	
Concrete Structures			Cu. Yd.	24.7
Reinforcement Bars, Epoxy Coated			Pound	2,560

FILE NAME: L:\FurhmannEng\24007089-00 I-172\708900\CADD Data\Bridge\CADD Sheets\D672250 - 036 - North Abutment Details - NB.dgn

CMT
License No. 184-000613
© Copyright CMT, Inc.

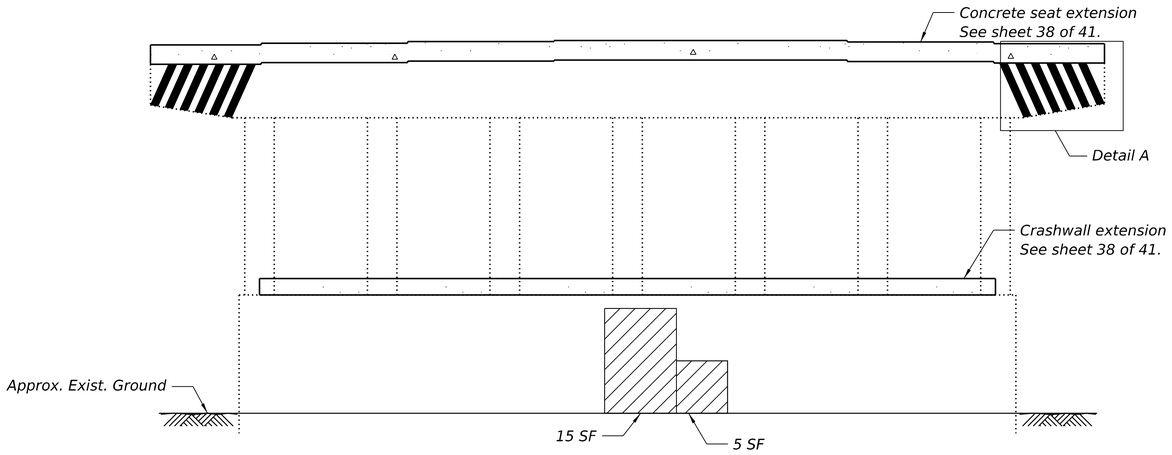
USER NAME = vtan	DESIGNED - AFR	REVISED -
	DRAWN - VT	REVISED -
	CHECKED - DAC	REVISED -
PLOT DATE = 6/5/2026	DATE - 8/18/2026	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH ABUTMENT DETAILS - NB
STRUCTURE NO. 001-0050 (SB) & 001-0051 (NB)

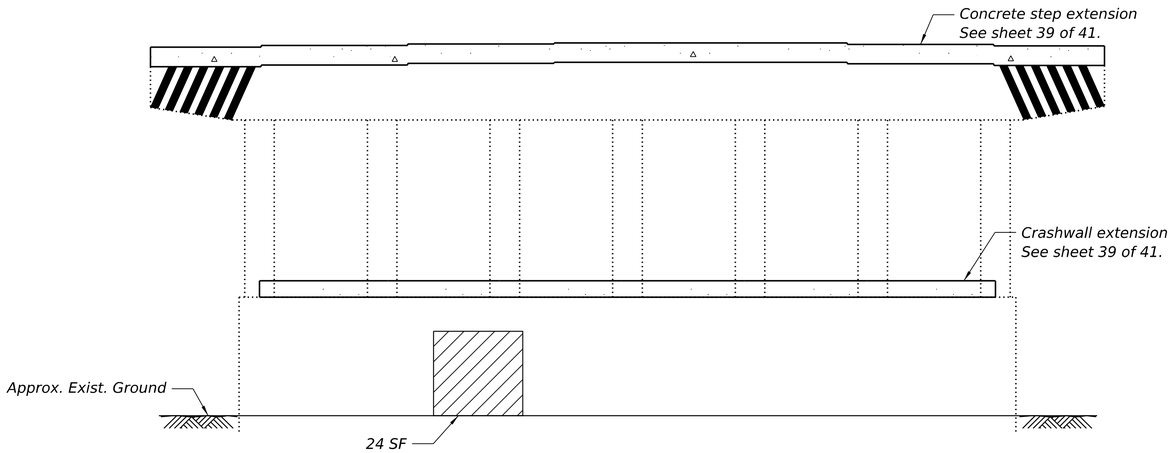
SCALE: | SHEET 36 OF 41 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-6VBR	ADAMS	113	70
		CONTRACT NO. 72250		
	ILLINOIS FED. AID PROJECT			



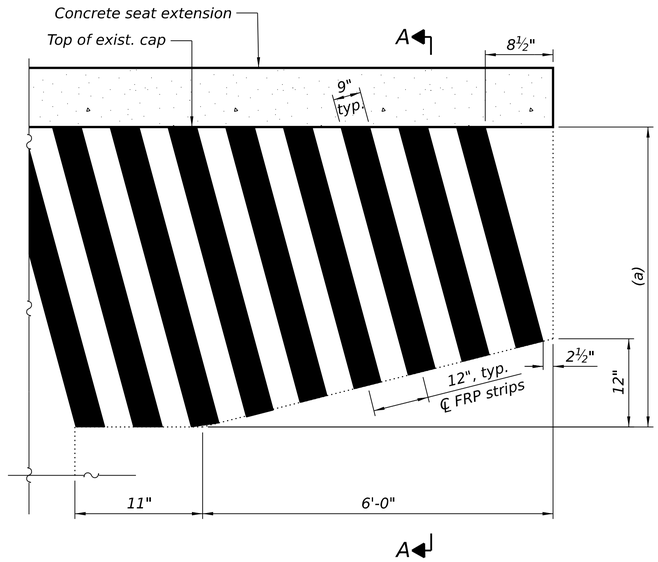
SB - SOUTH PIER - NORTH FACE

(Looking South)

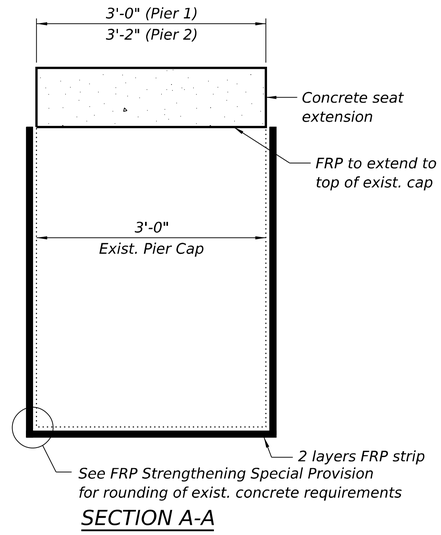


NB - SOUTH PIER - NORTH FACE

(Looking South)



DETAIL A



SECTION A-A

(a) 4'-0" and 4'-2⅝" for SB Pier 1
4'-0" and 4'-1¼" for SB Pier 2
4'-2" and 4'-0" for NB Pier 1
4'-3½" and 4'-0" for NB Pier 2

FOUR PIERS BILL OF MATERIAL

ITEM	UNIT	TOTAL
Acrylic Coating	Sq. Yd.	63
Fiber Wrap	Sq. Ft.	1,143
Structural Repair of Concrete (Depth Equal to or Less than 5 inches)	Sq. Ft.	44

LEGEND

Structural Repair of Concrete (Depth Equal to or Less than 5 Inches)

Notes:

1. The Contractor shall confirm limits with the Engineer of Structural Repair of Concrete in the field at time of construction.
2. Prior to application of Fiber-reinforced polymer (FRP) wraps, the existing concrete surface shall be cleaned and prepared in accordance with the Special Provisions.
3. Fiber-reinforced polymer (FRP) wraps applied to the pier cap beam shall consist of carbon fibers per the Special Provision for FRP Strengthening.
4. FRP Wrap and Acrylic Coating will be applied to all four pier caps at each end.
5. Acrylic Coating shall be placed over Fiber Wrap. Two coats shall be applied.
6. FRP Wrap strips to be placed parallel to one another.

FILE NAME: L:\Fuhrmann\Eng\240070089-00_I-172\70890\0\CADD Data\Bridge\CADD Sheets\D6722250 - 037 - Pier Repairs.dgn

CMT
License No. 184-000613 © Copyright CMT, Inc.

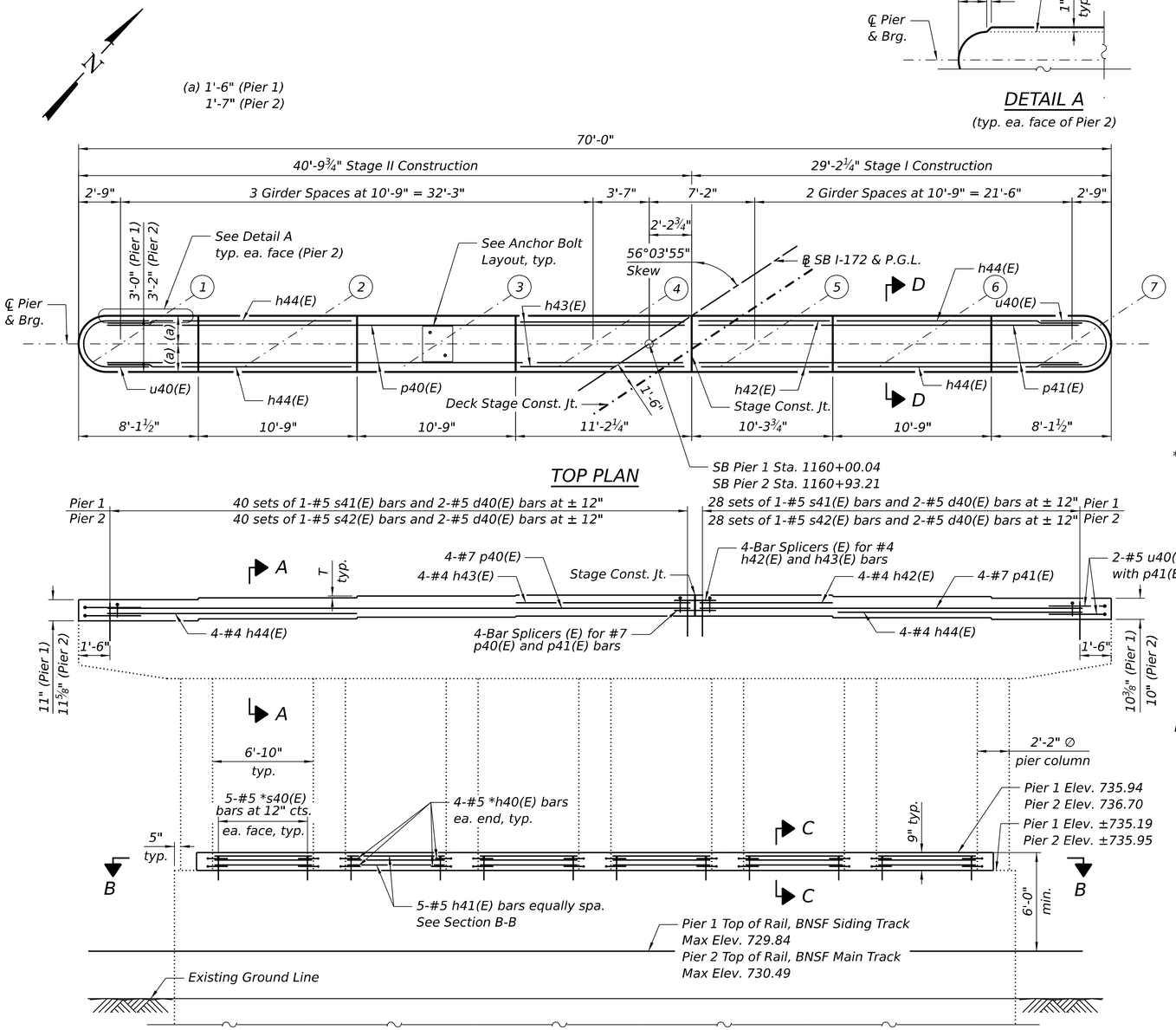
USER NAME = vtan	DESIGNED - AFR	REVISED -	
	DRAWN - VT	REVISED -	
	CHECKED - DAC	REVISED -	
PLOT DATE = 6/1/2026	DATE - 8/18/2026	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER REPAIRS
STRUCTURE NO. 001-0050 (SB) & 001-0051 (NB)

SCALE: | SHEET 37 OF 41 SHEETS | STA. | TO STA.

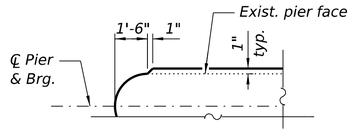
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-6VBR	ADAMS	113	71
		CONTRACT NO. 72250		
		ILLINOIS	FED. AID PROJECT	



TOP PLAN

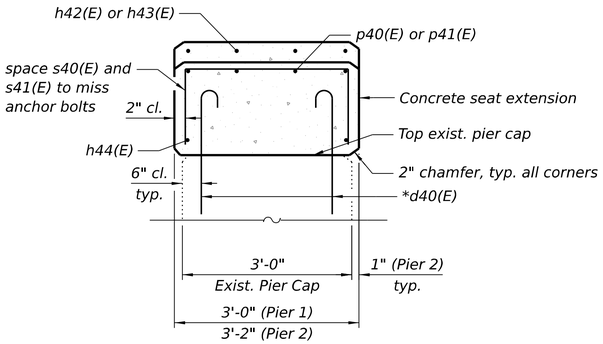
ELEVATION - SB PIER 1 & PIER 2

(Looking north)

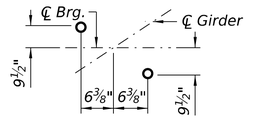


DETAIL A

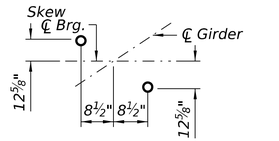
(typ. ea. face of Pier 2)



SECTION A-A



PIER 1 ANCHOR BOLT LAYOUT



PIER 2 ANCHOR BOLT LAYOUT

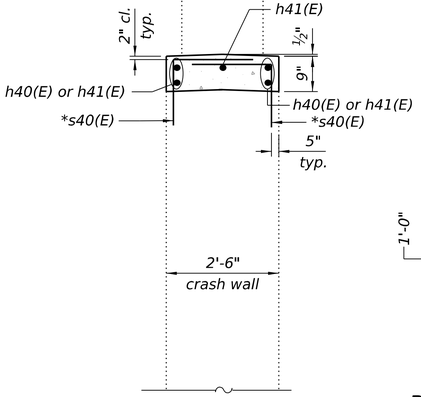
* Drill and grout d40(E), s40(E), and h40(E) bars in 9" min. embedment according to Article 584 of the Standard Specifications. Cost included with Reinforcement Bars, Epoxy Coated, typ.

PIER 1

Girder No.	Exist. Seat Elevation	Brg. Seat Elevation	Step "T"
1	±752.90	753.81	1¾"
2	±753.08	753.96	1½"
3	±753.20	754.08	1⅛"
4	±753.29	754.17	--
5	±753.31	754.17	⅞"
6	±753.25	754.10	1¼"
7	±753.13	754.00	

PIER 2

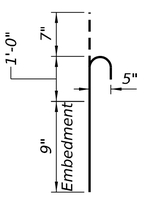
Girder No.	Exist. Seat Elevation	Brg. Seat Elevation	Step "T"
1	±752.85	753.82	1½"
2	±752.98	753.94	1⅜"
3	±753.14	754.05	¾"
4	±753.26	754.11	--
5	±753.26	754.11	1⅛"
6	±753.19	754.02	1⅜"
7	±753.08	753.91	



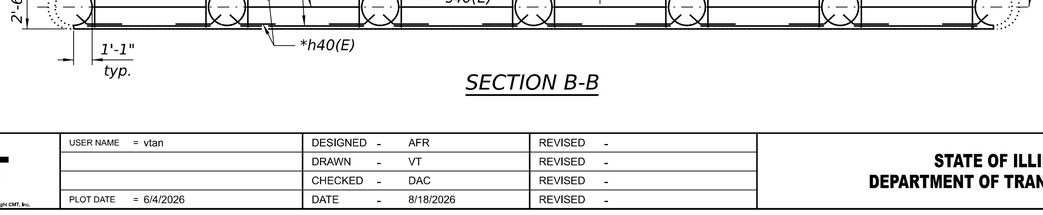
SECTION C-C

TWO PIERS BILL OF MATERIAL

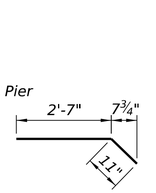
Bar	No.	Size	Length	Shape
d40(E)	272	#5	2'-4"	
h40(E)	96	#5	3'-8"	
h41(E)	60	#5	6'-6"	
h42(E)	8	#4	9'-11"	
h43(E)	8	#4	10'-10"	
h44(E)	16	#4	17'-2"	
p40(E)	8	#7	27'-6"	
p41(E)	8	#7	39'-2"	
s40(E)	120	#5	3'-6"	
s41(E)	68	#5	4'-2"	
s42(E)	68	#5	4'-4"	
u40(E)	8	#5	8'-4"	
Concrete Structures			Cu. Yd.	19.4
Reinforcement Bars, Epoxy Coated			Pound	3,940



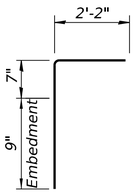
BAR d40(E)



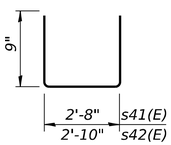
SECTION B-B



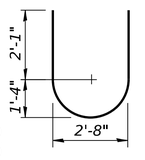
BARS h40(E)



BAR s40(E)



BARS s41(E) & s42(E)



BAR u40(E)

Notes:

1. *On top of Pier 1 cap, cut existing dowel bars flush with existing top face of cap. Grind existing dowel smooth and seal with epoxy. Cost included with Removal of Existing Superstructures No. 1.*
2. *Prior to ordering any material, the Contractor shall field verify all substructure elevations and dimensions.*

FILE NAME: L:\FurhmannEng\240070\89-00_I-172\708900\CADD Data\Bridge\CADD Sheets\D6722250 - 038 - Pier Details - SB.dgn

CMT
License No. 184-000613
© Copyright CMT, Inc.

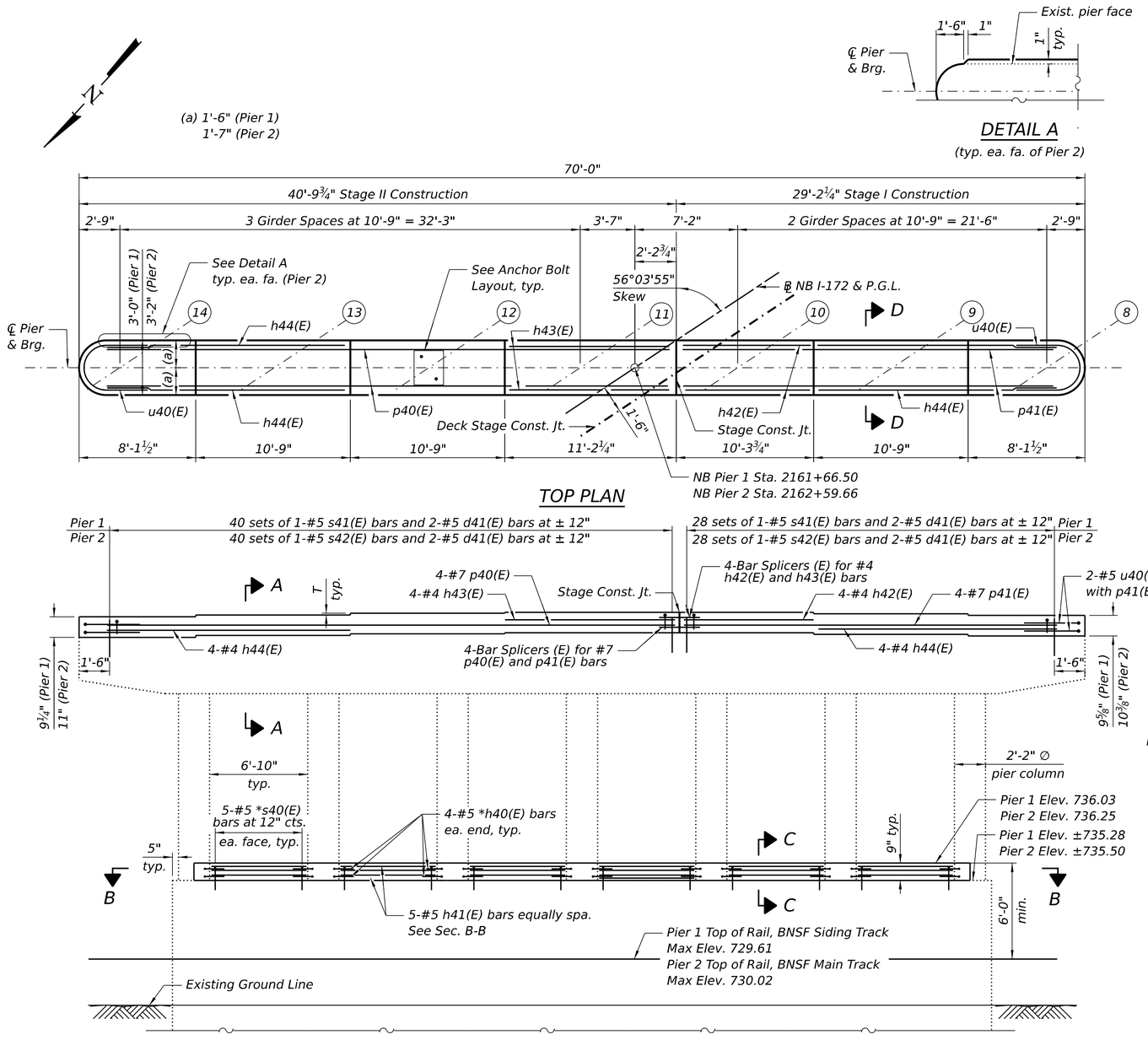
USER NAME = vtan	DESIGNED - AFR	REVISED -	
	DRAWN - VT	REVISED -	
	CHECKED - DAC	REVISED -	
PLOT DATE = 6/4/2026	DATE - 8/18/2026	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER DETAILS - SB
STRUCTURE NO. 001-0050 (SB) & 001-0051 (NB)

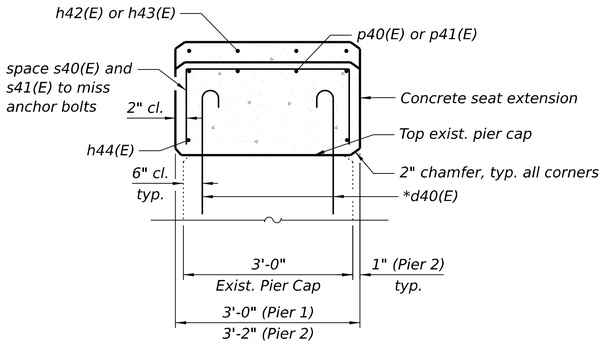
SCALE: | SHEET 38 OF 41 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-6VBR	ADAMS	113	72
		CONTRACT NO. 72250		
		ILLINOIS	FED. AID PROJECT	

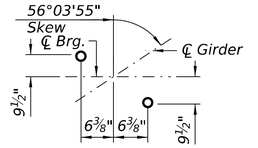


DETAIL A

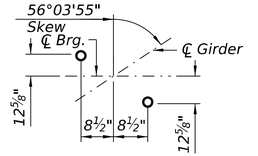
(typ. ea. fa. of Pier 2)



SECTION A-A



PIER 1 ANCHOR BOLT LAYOUT



PIER 2 ANCHOR BOLT LAYOUT

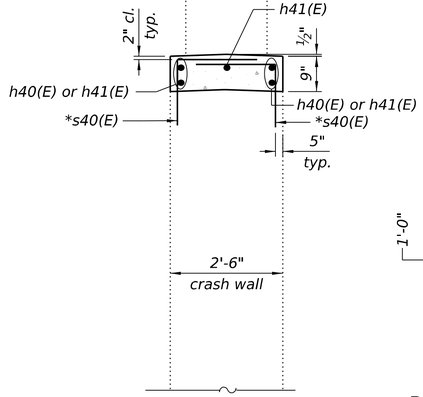
* Drill and grout d40(E), s40(E), and h40(E) bars in 9" min. embedment according to Article 584 of the Standard Specifications. Cost included with Reinforcement Bars, Epoxy Coated, typ.

PIER 1

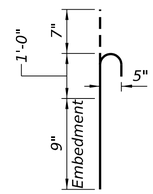
Girder No.	Exist. Seat Elevation	Brg. Seat Elevation	Step "T"
8	±753.20	754.01	1⅜"
9	±753.32	754.12	⅞"
10	±753.42	754.19	--
11	±753.42	754.19	1⅛"
12	±753.33	754.10	1½"
13	±753.21	753.97	1½"
14	±753.07	753.84	1½"

PIER 2

Girder No.	Exist. Seat Elevation	Brg. Seat Elevation	Step "T"
8	±752.81	753.67	1"
9	±752.88	753.75	¾"
10	±752.93	753.81	--
11	±752.92	753.81	1½"
12	±752.80	753.68	1⅝"
13	±752.64	753.54	1¾"
14	±752.47	753.39	



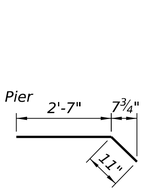
SECTION C-C



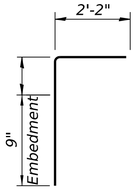
BAR d40(E)

TWO PIERS BILL OF MATERIAL

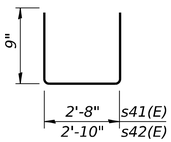
Bar	No.	Size	Length	Shape
d40(E)	272	#5	2'-4"	
h40(E)	96	#5	3'-8"	
h41(E)	60	#5	6'-6"	
h42(E)	8	#4	9'-11"	
h43(E)	8	#4	10'-10"	
h44(E)	16	#4	17'-2"	
p40(E)	8	#7	27'-6"	
p41(E)	8	#7	39'-2"	
s40(E)	120	#5	3'-6"	
s41(E)	68	#5	4'-2"	
s42(E)	68	#5	4'-4"	
u40(E)	8	#5	8'-4"	
Concrete Structures			Cu. Yd.	18.7
Reinforcement Bars, Epoxy Coated			Pound	3,940



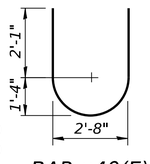
BARS h40(E)



BAR s40(E)



BARS s41(E) & s42(E)



BAR u40(E)

Notes:

1. On top of Pier 1 cap, cut existing dowel bars flush with existing top face of cap. Grind existing dowel smooth and seal with epoxy. Cost included with Removal of Existing Superstructures No. 2.
2. Prior to ordering any material, the Contractor shall field verify all substructure elevations and dimensions.

FILE NAME: L:\FurhmannEng\240070\80-00_I-172\708900\CADD Data\Bridge\CADD Sheets\D6722250 - 039 - Pier Details - NB.dgn

CMT

License No. 184-000613 © Copyright CMT, Inc.

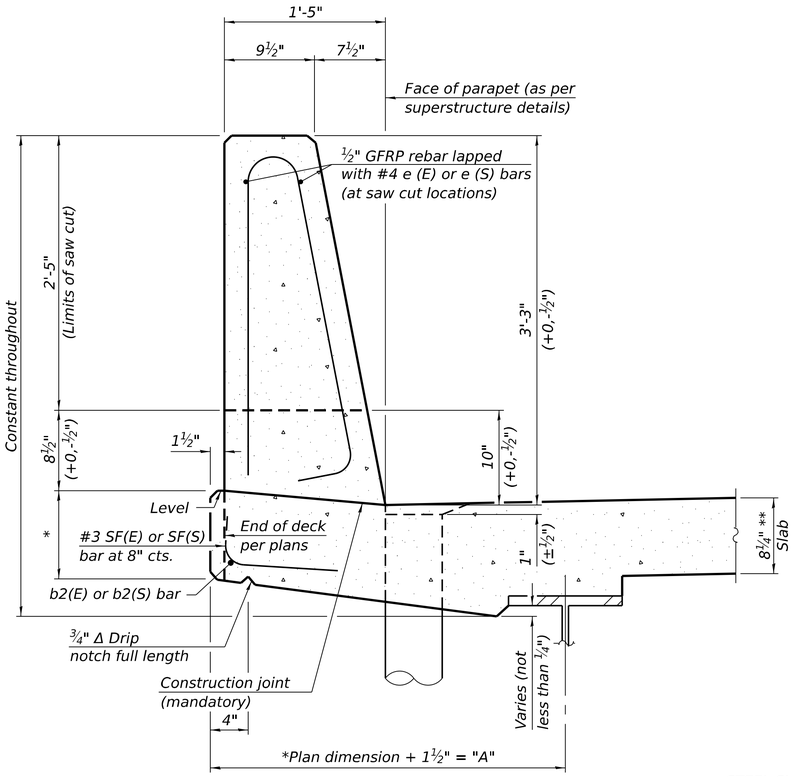
USER NAME = vtan	DESIGNED - AFR	REVISED -
	DRAWN - VT	REVISED -
	CHECKED - DAC	REVISED -
PLOT DATE = 6/5/2026	DATE - 8/18/2026	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER DETAILS - NB
STRUCTURE NO. 001-0050 (SB) & 001-0051 (NB)

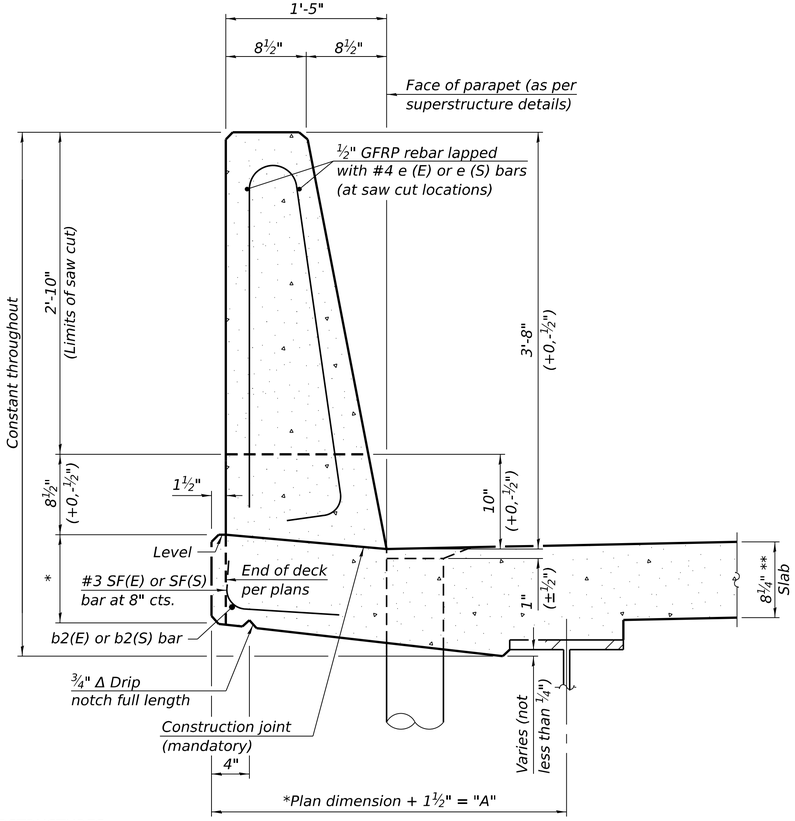
SCALE: | SHEET 39 OF 41 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-6VBR	ADAMS	113	73
		CONTRACT NO. 72250		
		ILLINOIS	FED. AID PROJECT	



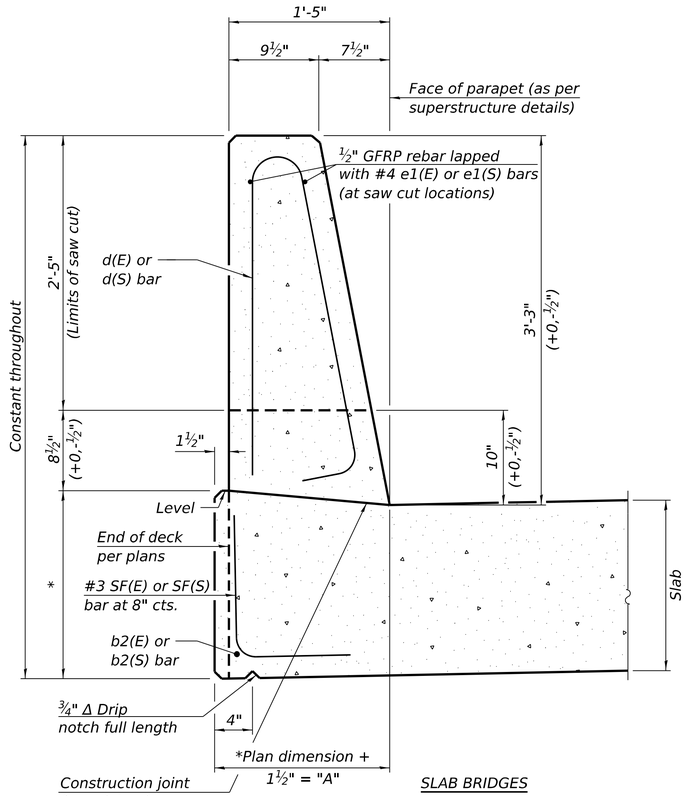
39" CONSTANT-SLOPE PARAPET SECTION

(Showing dimensions, d(E) or d(S), and ½" Ø GFRP rebar)



44" CONSTANT-SLOPE PARAPET SECTION

(Showing dimensions, d(E) or d(S), and ½" Ø GFRP rebar)



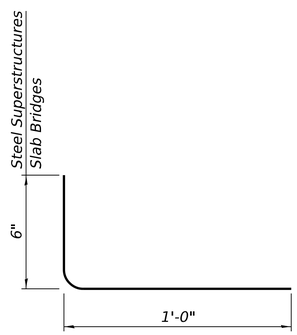
39" CONSTANT-SLOPE PARAPET SECTION

(Showing dimensions, d(E) or d(S), and ½" Ø GFRP rebar)

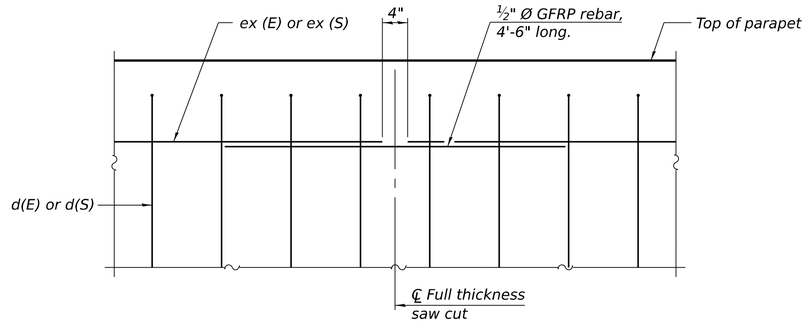
STEEL SUPERSTRUCTURES

SLAB BRIDGES

*See Superstructure Details.
**Prior to grinding



SF(E) or SF(S) BAR



DETAIL - GFRP REBAR STIFFENING ELEVATION

(Place as shown in parapet section at each parapet joint location.)

Notes:

1. *All dimensions shall remain the same as shown on superstructure details, except dimension "A" which is to be revised as shown.*
   Additional concrete needed to revise dimension "A" (39" and 44" parapets):
   Steel Superstructures: 0.00348 cu. yds./ft.
   Slab Bridge Superstructures: cu. yds./ft.
2. *Place full depth aluminum sheets as shown on superstructure details.*
3. *Replace all cork joint filler locations with a full thickness saw cut.*
4. *Steel and slab superstructures shown. Other superstructure types similar.*

FILE NAME: L:\Furhmann\Eng\240070089-00_I-172\708900\CADD Data\Bridge\CADD Sheets\D672250 - 040 - Concrete Parapet Slipforming Option.dgn

CMT
License No. 184-000613
© Copyright CMT, Inc.

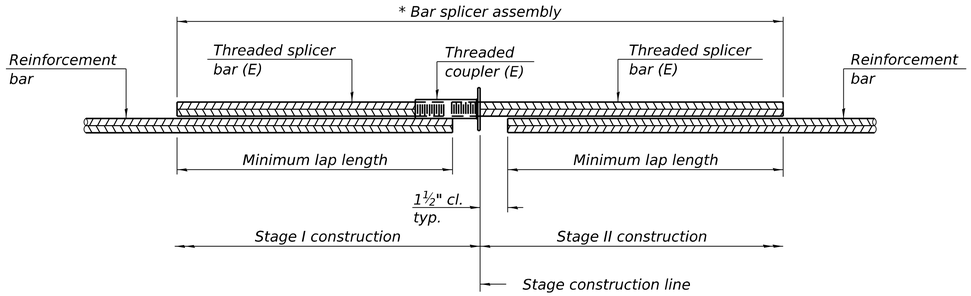
USER NAME = vtan	DESIGNED - VT	REVISED -	
	DRAWN - VT	REVISED -	
	CHECKED - DAC	REVISED -	
PLOT DATE = 5/27/2026	DATE - 8/18/2026	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONCRETE PARAPET SLIPFORMING OPTION
STRUCTURE NO. 001-0050 (SB) & 001-0051 (NB)

SCALE: | SHEET 40 OF 41 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-6VBR	ADAMS	113	74
		CONTRACT NO. 72250		
		ILLINOIS	FED. AID PROJECT	



STANDARD BAR SPLICER ASSEMBLY PLAN

Only bar splicer assemblies as presented on the approved QPL list may be used.

Threaded splicer bar length = min. lap length + 1½" + thread length

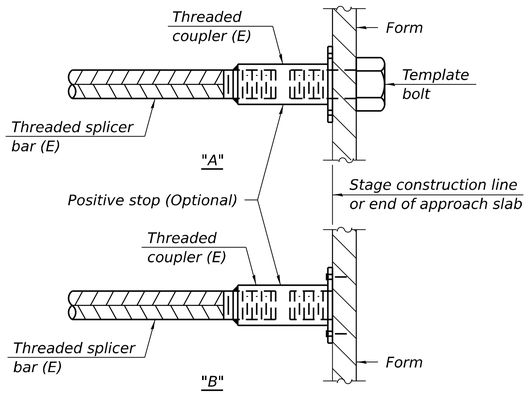
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars. Stainless steel bar splicer assembly components will be required when used in conjunction with stainless steel bars.

SN 001-0050 (SB)

Location	Bar size	No. assemblies required	Minimum lap length
Deck	#5	789	3'-10"
S. Appr. Slab	#5	70	2'-0"
N. Appr. Slab	#5	70	2'-0"
S. Diaphragm	#4	7	1'-7"
S. Diaphragm	#6	6	3'-6"
N. Diaphragm	#4	7	1'-7"
N. Diaphragm	#6	6	3'-6"
Pier 1	#4	4	1'-8"
Pier 1	#7	4	4'-4"
Pier 2	#4	4	1'-8"
Pier 2	#7	4	4'-4"
S. Abut.	#7	7	4'-4"
S. Abut.	#5	4	2'-1"
S. Abut.	#4	2	1'-8"
N. Abut.	#4	2	1'-8"
N. Abut.	#7	7	4'-4"

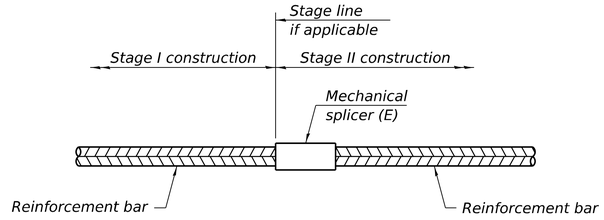
SN 001-0050 (NB)

Location	Bar size	No. assemblies required	Minimum lap length
Deck	#5	789	3'-10"
S. Appr. Slab	#5	70	2'-0"
N. Appr. Slab	#5	70	2'-0"
S. Diaphragm	#4	7	1'-7"
S. Diaphragm	#6	6	3'-6"
N. Diaphragm	#4	7	1'-7"
N. Diaphragm	#6	6	3'-6"
Pier 1	#4	4	1'-8"
Pier 1	#7	4	4'-4"
Pier 2	#4	4	1'-8"
Pier 2	#7	4	4'-4"
S. Abut.	#7	7	4'-4"
S. Abut.	#5	4	2'-1"
S. Abut.	#4	2	1'-8"
N. Abut.	#4	2	1'-8"
N. Abut.	#7	7	4'-4"



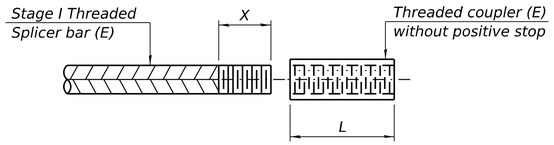
INSTALLATION AND SETTING METHODS

"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



THREADING OF ASSEMBLIES

The threaded length "X" shall be no more than L/2. The bar should be tightened until 0-1 thread(s) is/are exposed.

Notes:
1. Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.
2. All reinforcement shall be lapped and tied to the splicer bars.
3. Bar splicer assemblies shall be epoxy coated or stainless steel according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications and the Special Provisions.
4. See approved list of bar splicer assemblies and mechanical splicers for alternatives.

FILE NAME: L:\FurhmannEng\240070893-00_I-172\708900\CADD Data\Bridge\CADD Sheets\D6722250 - 041 - Bar Splicer Assembly and Mechanical Splicer Details.dgn

CMT
License No. 184-000613 © Copyright CMT, Inc.

USER NAME = vtan	DESIGNED - VT	REVISED -
	DRAWN - VT	REVISED -
	CHECKED - DAC	REVISED -
PLOT DATE = 6/1/2026	DATE - 8/18/2026	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
STRUCTURE NO. 001-0050 (SB) & 001-0051 (NB)

SCALE: | SHEET 41 OF 41 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-6VBR	ADAMS	113	75
		CONTRACT NO. 72250		
	ILLINOIS	FED. AID PROJECT		

BM-23 El. 731.70 R.R. Spike set in power pole, north side of Burlington-Northern Railroad, 42.7' Rt. Sta. 47+26.7 R.R. Survey Baseline.
No Existing Structure.

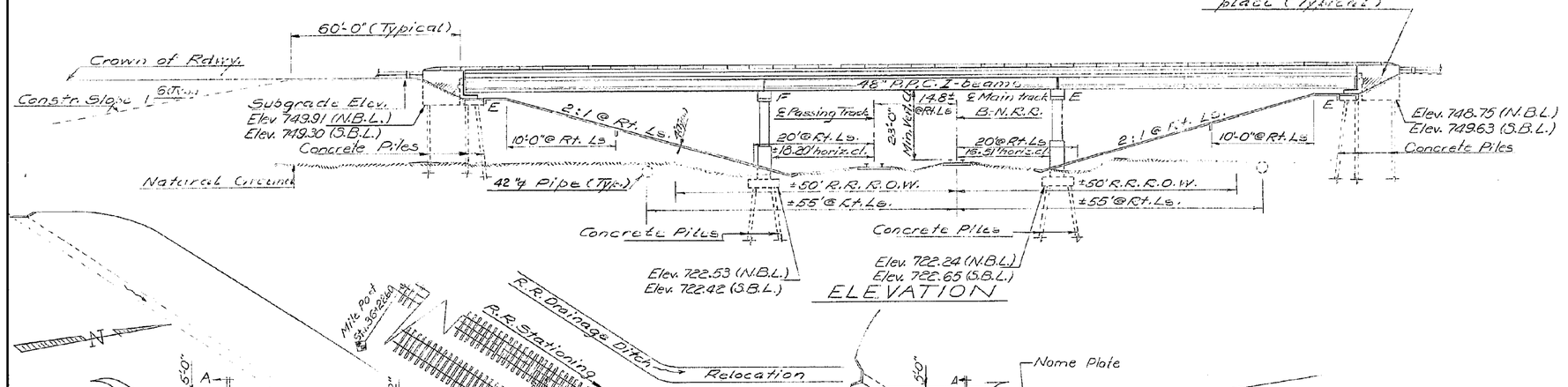
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

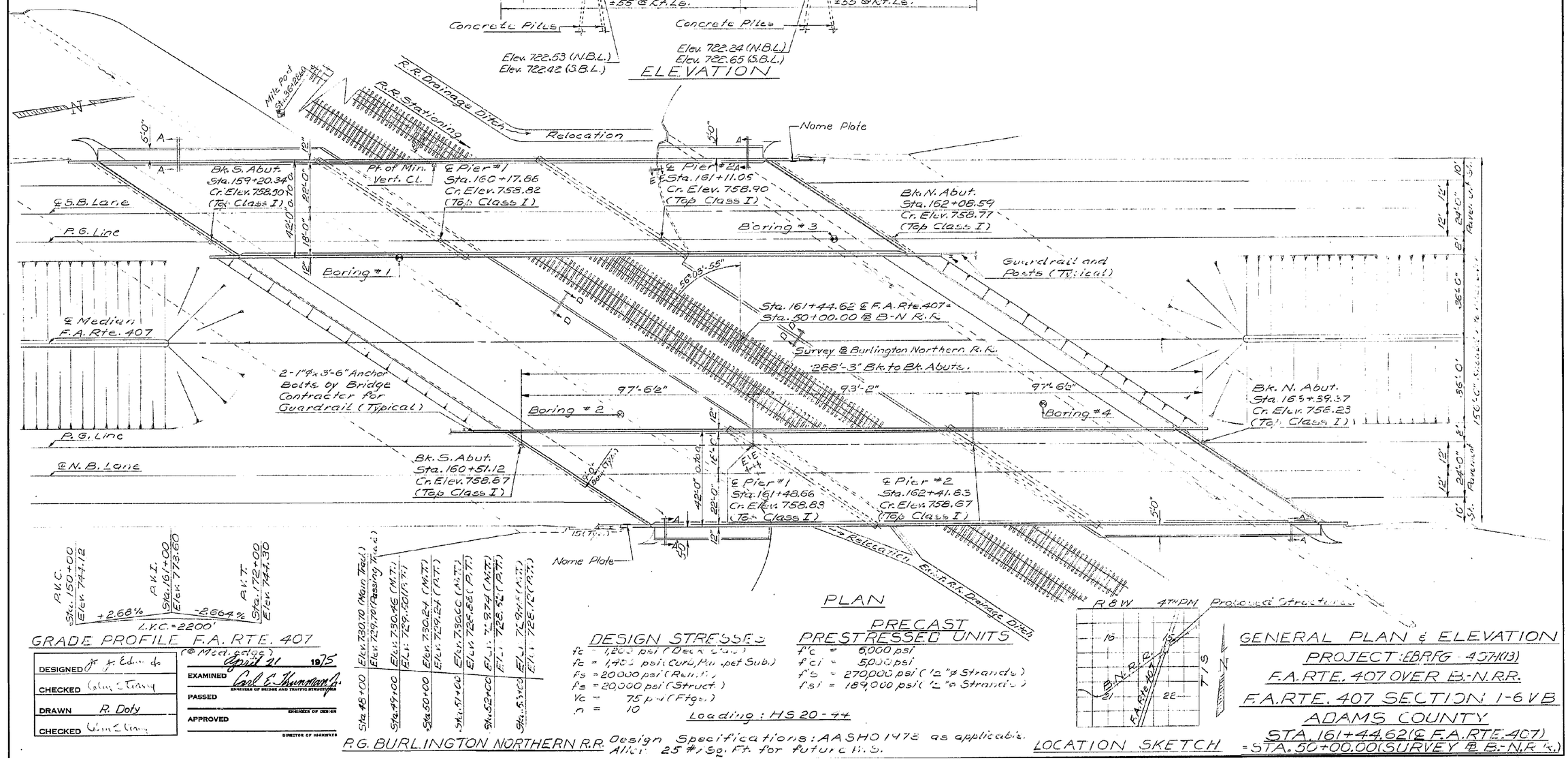
This portion of embankment backfill by Bridge Contractor after Abut. is in place (Typical)

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 172	1-6VB	ADAMS	113	8
FED. ROAD DIST. NO. 7	ILLINOIS	FED. A.D. PROJECT-		

SHEET NO. 1
23 SHEETS

Note:
Work this sheet with sheet #2.





GRADE PROFILE F.A. RTE. 407
(℄ Median)

Sta. 148+00	Sta. 149+00	Sta. 150+00	Sta. 151+00	Sta. 152+00	Sta. 153+00	Sta. 154+00	Sta. 155+00	Sta. 156+00	Sta. 157+00
Elev. 730.10 (Main Trk.)	Elev. 730.46 (N.T.)	Elev. 730.24 (N.T.)	Elev. 730.00 (N.T.)	Elev. 729.74 (N.T.)	Elev. 729.48 (N.T.)	Elev. 729.22 (N.T.)	Elev. 728.96 (N.T.)	Elev. 728.70 (N.T.)	Elev. 728.44 (N.T.)
Elev. 729.78 (Passing Trk.)	Elev. 729.56 (P.T.)	Elev. 729.24 (P.T.)	Elev. 728.68 (P.T.)	Elev. 728.52 (P.T.)	Elev. 728.36 (P.T.)	Elev. 728.12 (P.T.)			

DESIGNED Jf
CHECKED Calculations Check
DRAWN R. Doty
CHECKED Check

(℄ Median)
April 21 1975

EXAMINED Carl E. Thompson Jr. ENGINEER OF BRIDGE AND TRAFFIC STRUCTURES
PASSED ENGINEER OF DESIGN
APPROVED DIRECTOR OF HIGHWAYS

DESIGN STRESSES

- f'_c = 1,200 psi (Deck Concrete)
- f_c = 1,400 psi (Curb, Rail, Pet Sub.)
- f_s = 20,000 psi (Reinf.)
- f_s = 20,000 psi (Struct.)
- V_c = 75 psi (Ftgs.)
- n = 10

PRECAST PRESTRESSED UNITS

- f'_c = 6,000 psi
- f'_{ci} = 5,000 psi
- f'_s = 270,000 psi ("2 ϕ Strands)
- f'_{si} = 189,000 psi ("2 ϕ Strands)

Loading : HS 20-44

P.G. BURLINGTON NORTHERN R.R.

Design Specifications: AASHO 1973 as applicable.
Allow 25 #/Sq. Ft. for future ℄ S.

PLAN

LOCATION SKETCH

GENERAL PLAN & ELEVATION
PROJECT: EBRFG-457(113)
F.A. RTE. 407 OVER B.-N.R.R.
F.A. RTE. 407 SECTION 1-6VB
ADAMS COUNTY
STA. 161+44.62 (℄ F.A. RTE. 407)
= STA. 50+00.00 (SURVEY ℄ B.-N.R.R.)

FILE NAME: L:\FurhmannEng\240070089-00_I-172\70890\CADD Data\Bridge\CADD Sheets\Existing Plans\D6722250 - 001 - Existing Plans - I.dgn

CMT
License No. 184-000613 © Copyright CMT, Inc.

USER NAME = vtan	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
	CHECKED -	REVISED -	
PLOT DATE = 7/8/2026	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS - I
STRUCTURE NO. 001-0050 (SB) & 001-0051 (NB)

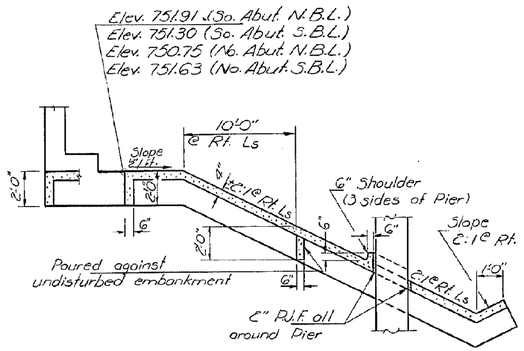
SCALE: | SHEET 1 OF 16 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-6VBR	ADAMS	113	76
		CONTRACT NO. 72250		
	ILLINOIS	FED. AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

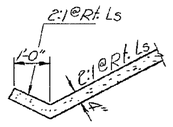
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 407	1-6VB	ADAMS	52	0
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

SHEET NO. 2
23 SHEETS

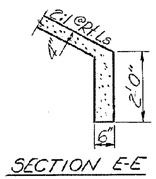


SECTION THRU SLOPE WALL

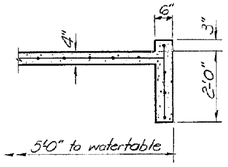
Note:
Slope berm between structures as necessary to make up difference in elevations between North bound lanes and South bound lanes.



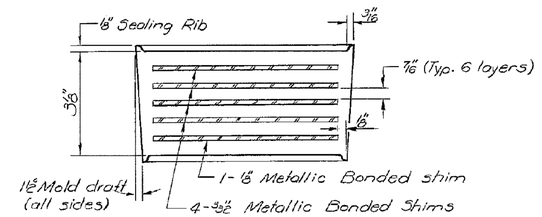
SECTION D-D



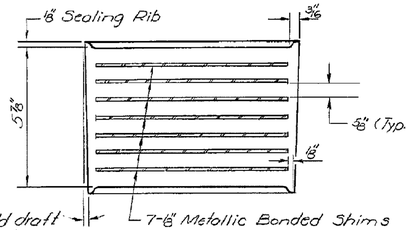
SECTION E-E



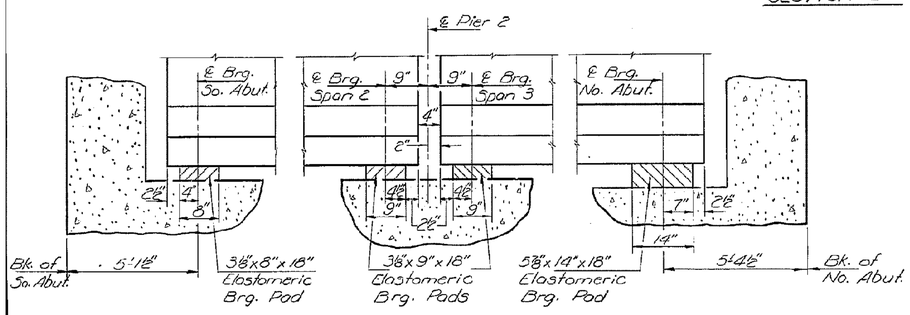
SECTION A-A



ELASTOMERIC BRG. DETAIL
(For use at South Abut. & Pier 2)

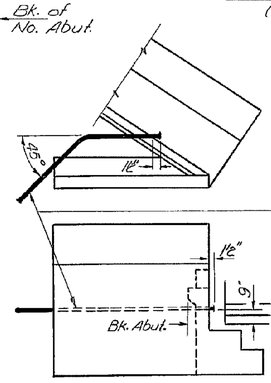


ELASTOMERIC BRG. DETAIL
(For use at North Abut.)



AT SOUTH ABUT. AT PIER 2 AT NORTH ABUT.

VIEW ALONG BEAMS
(Showing Typical Elastomeric Bearing Placement. All dimensions are along ℄ of beams).



Locate 2" ϕ Galv. Conduit (Sch. 40 Pipe) ±12" inside of fascia beam web and parallel to beam line. Extend to clear the wing wall and terminate at a point outside of shoulder. Thread and cap each end. Place conduit at the two outside corners of each dual bridge. (4-Req'd). Cost incidental.

ELECTRICAL CONDUIT LOCATION

GENERAL NOTES

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

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

All structural steel shall be shop painted with two coats of basic lead silico chromate paint.

For Boring Data see the Proposal.

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

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

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

Protective Coat shall not be applied to surfaces to which Waterproofing Membrane System is applied.

Those spans which will have railroad signal or communication lines under them shall have the deck drains spaced to clear the cross arms of these wire signal poles by 10'0" as determined in the field by the Engineer.

The Contractor shall drive one concrete test pile each in a permanent location of Pier ℄ N.B.L., Pier ℄ S.B.L., N. Abut. N.B.L. and S. Abut. S.B.L. as directed by the Engineer before ordering the remainder of piles.

STATION 161+44.62
BUILT 19 BY
STATE OF ILLINOIS
F.A. RT. 407 SEC. 1-6VB
PROJECT EBAFG-407-1(13)
LOADING H320

NAME PLATES
(See Std. 2113)

TOTAL BILL OF MATERIAL

	Item	Unit	Super	Sub	Total
Δ	Bituminous Concrete Surface Course, Class I	Tons	203		203
	Structure Excavation	Cu. Yd.		550	550
Δ	Protective Coat	Sq. Yd.	470		470
	Class X Concrete	Cu. Yd.	826.8	893.4	1720.2
	Furnishing and Erecting Precast Prestressed Concrete I-Beams (48" depth)	Lin. Ft.	3898		3898
	Reinforcement Bars	Pound	189,520	131,150	320,670
	Concrete Piles	Lin. Ft.		8810	8810
	Test Piles (Concrete)	Each		4	4
	Name Plates	Each	2		2
	Slope Wall (4")	Sq. Yd.		4300	4300
Δ	Waterproofing Membrane System*	Sq. Yd.	2420		2420
	Neoprene Expansion Joint (2½")*	Lin. Ft.	290		290
	Structural Steel	Pound	850		850
	Aluminum Railing	Lin. Ft.	1268		1268

*See Special Provisions.
Δ To be done by roadway contractor

DESIGNED	Joseph Edmonds
CHECKED	Calvin Ellis
DRAWN	R. Doty
CHECKED	Calvin Ellis

April 21 1975
EXAMINED Carl E. Fuhrmann Jr.
ENGINEER OF BRIDGE AND TRAFFIC STRUCTURES
PASSED
ENGINEER OF CDE-GN
APPROVED
DIRECTOR OF HIGHWAYS

Note:
Work this sheet with sheet #1.

GENERAL DATA
F.A. RT. 407 SEC. 1-6VB
ADAMS COUNTY
STA. 161+44.62

FILE NAME: c:\FuhrmannEng\240070089-00 I-172\708900\CADD Data\Bridge\CADD Sheets\Existing Plans\D672250 - 002 - Existing Plans - II.dgn

CMT
License No. 184-000613 © Copyright CMT, Inc.

USER NAME = vtan	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
	CHECKED -	REVISED -	
PLOT DATE = 6/1/2026	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS - II
STRUCTURE NO. 001-0050 (SB) & 001-0051 (NB)
SCALE: SHEET 2 OF 16 SHEETS STA. TO STA.

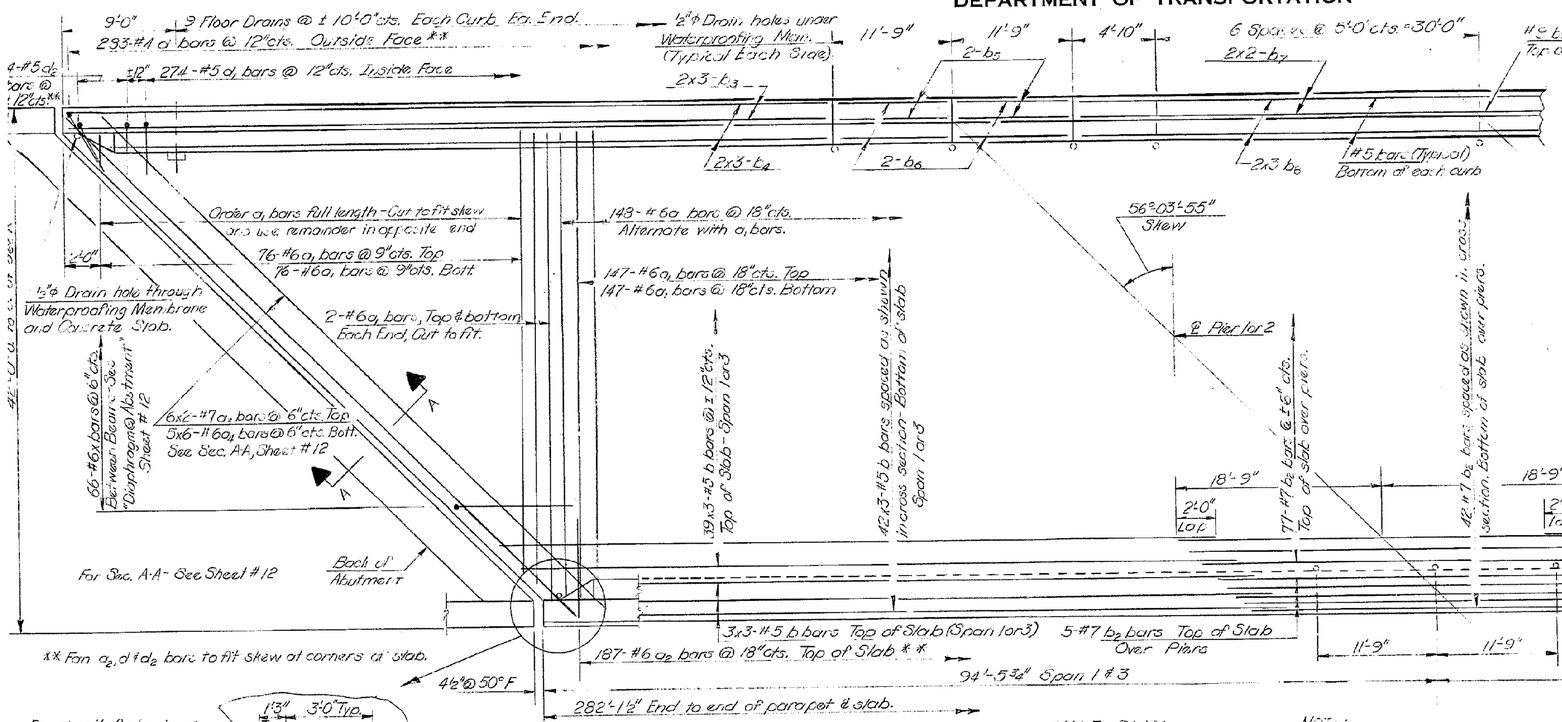
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-6VBR	ADAMS	113	77
		CONTRACT NO. 72250		
	ILLINOIS	FED. AID PROJECT		

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. RT. 407	1-6VB	ADAMS	52	16
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

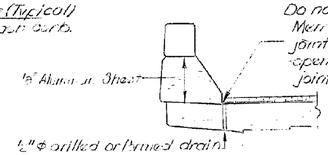
SHEET NO. 3 OF SHEETS

Note: Bars indicated thus 20x3 - #5 etc. indicates 20 lines of bars with 3 lengths per line. Min. bar laps = 24 dia.

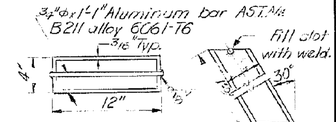
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



Do not provide opening in Waterproofing Membrane at aluminum sheeted curb joints or over span 2. Do provide opening through membrane at expansion joints.



SECTION AT CURB



¾"ϕ x 1'-1" Aluminum bar ASTM B211 alloy 6061-T6

Aluminum Sheets Welded ASTM B209 alloy 6061-T6 or Aluminum Extrusions ASTM B221 alloy 6061-T6

FLOOR LEVEL

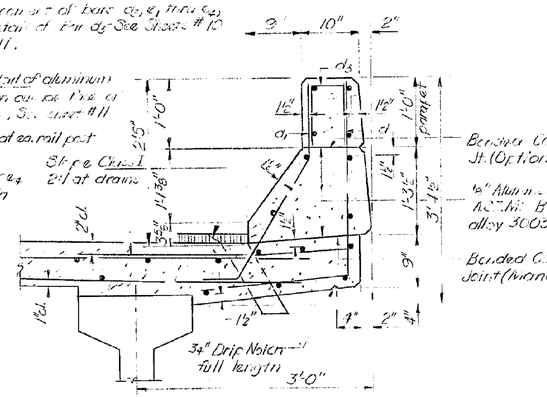
TWO SUPERSTRUCTURES
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a_1	296	#6	41'-6"	
a_1	208	#6	40'-3"	
a_2	748	#6	41'-0"	
a_3	48	#7	38'-0"	
a_4	120	#6	9'-3"	
b	1014	#5	26'-9"	
b_1	346	#5	30'-6"	
b_2	516	#7	37'-6"	
b_3	48	#5	29'-0"	
b_4	48	#5	25'-6"	
b_5	32	#6	11'-6"	
b_6	32	#5	11'-6"	
b_7	16	#8	38'-3"	
b_8	24	#5	24'-0"	
d	1132	#4	41'-6"	
d_1	1096	#5	31'-7"	
d_2	32	#5	41'-4"	
m	96	#4	9'-3"	
m_1	48	#6	7'-0"	
s_{11}	72	#4	14'-2"	
s_{12}	72	#4	13'-0"	
x	104	#6	11'-6"	
Reinforcement Bars			Lb.	186,240
Class X Concrete			Cu. Yds.	190.4

Parapet reinforcement and Class X Concrete are billed on Sheet #K-11

For placement and details of bars m, m_1, s_{11} and s_{12} - See sheet #12.

Note: For placement of bars a_2, d, d_1 and d_2 and detail of bar d_2 See Sheets #10 and #11.



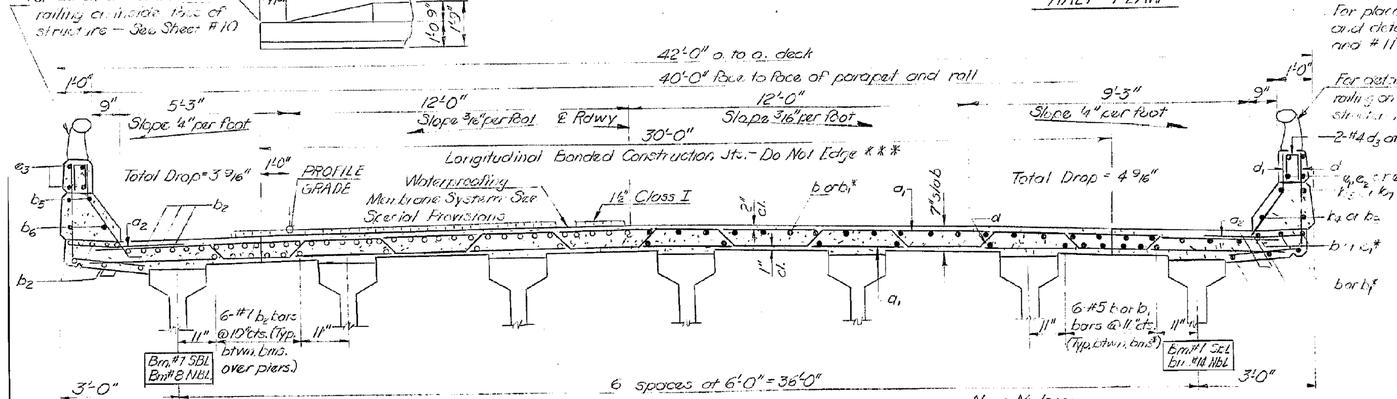
Berstein Construction Jt. (Optional)

¼" Aluminum Sheet ASTM B209 alloy 3003-H14

Bonded Construction Joint (Mandatory)

CURB SECTION

Cost of Aluminum Drains and Sheets shall be incidental to Class X Concrete.



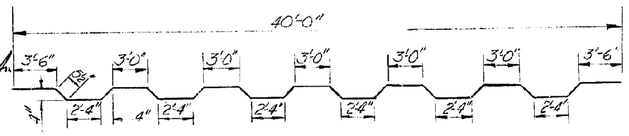
CROSS SECTION
Looking N - N.E.L.
Looking S - S.B.L.

*** Longitudinal bonded Construction Joints shall extend vertically through diaphragms at abutments and piers.

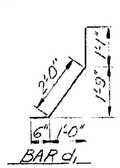
* Note: Use: bar span 1 or 3 b_1 in span 2 Except over piers

DESIGNED	K. J. Eckert
CHECKED	Calvin Ehlers
DRAWN	K. J. Eckert
CHECKED	Calvin Ehlers

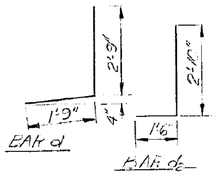
April 21 1976
EXAMINED Carl E. Heinemann
ENGINEER OF BRIDGE AND TRAFFIC STRUCTURES
PASSED
ENGINEER OF DESIGN
APPROVED
DIRECTOR OF HIGHWAYS



BAR a

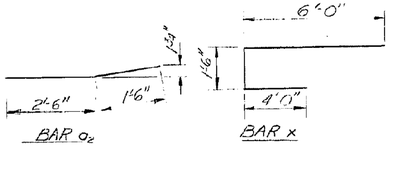


BAR d_1



BAR d

BAR d_2



BAR a_2

BAR x

NOTE:
For placement of bars a_2, d, d_1 and d_2 See Sheets #10 and #11.

SUPERSTRUCTURES
NORTH BOUND LANES
SOUTH BOUND LANES
F.A.RT. 407 - SECTION 1-6VB
ADAMS COUNTY
STATION 161 + 44.62

FILE NAME: L:\FuhrmannEng\240007089-00_I-172\708900\CADD Data\Bridge\CADD Sheets\Existing Plans\D672250 - 003 - Existing Plans - III.dgn

CMT
License No. 184-000613 © Copyright CMT, Inc.

USER NAME = vtan	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
	CHECKED -	REVISED -	
PLOT DATE = 6/1/2026	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS - III
STRUCTURE NO. 001-0050 (SB) & 001-0051 (NB)

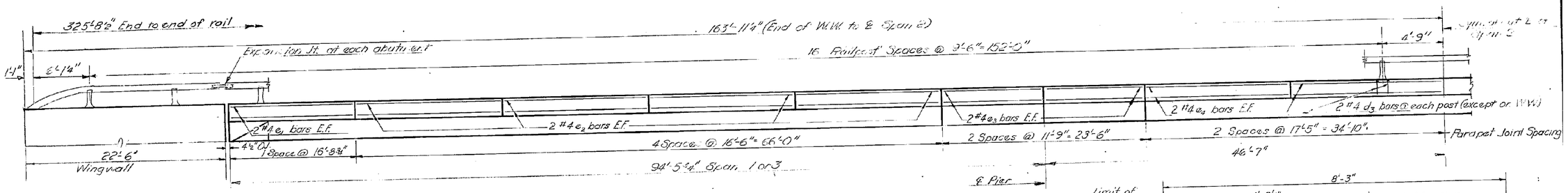
SCALE: | SHEET 3 OF 16 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-6VBR	ADAMS	113	78
		CONTRACT NO. 72250		
	ILLINOIS	FED. AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

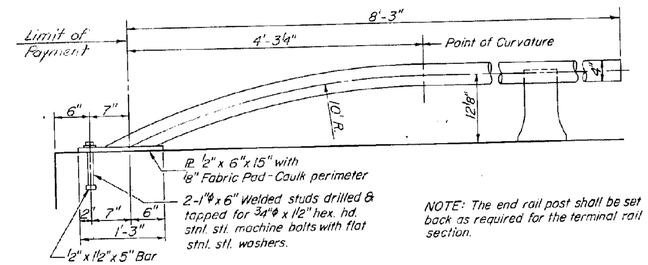
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 172	1-6VB	ADAMS	22	17
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT:		

SHEET NO. 17
22 SHEETS

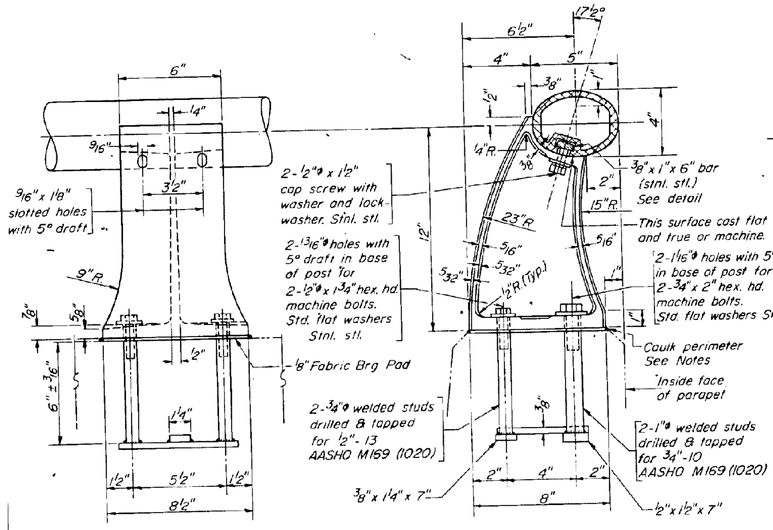


HALF ELEVATION

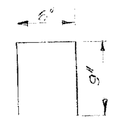
(Showing Inside Face West rail at Northbound lane or Inside Face East rail at Southbound lane.)

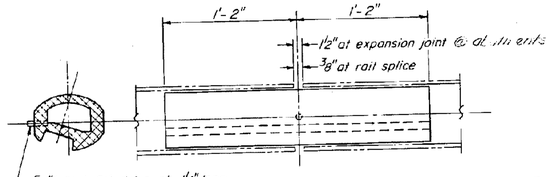


NOTE: The end rail post shall be set back as required for the terminal rail section.

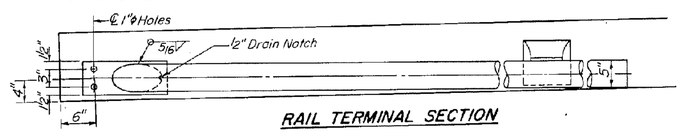


RAIL POST DETAILS

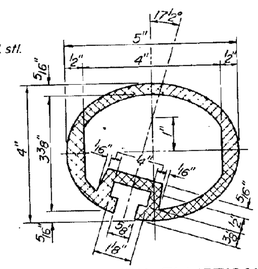




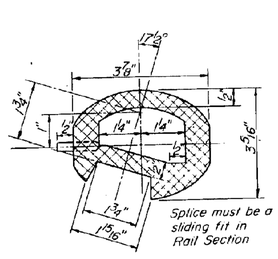
RAIL SPLICE



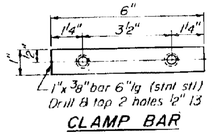
RAIL TERMINAL SECTION



SEC. THRU ELLIPTICAL RAIL SECTION

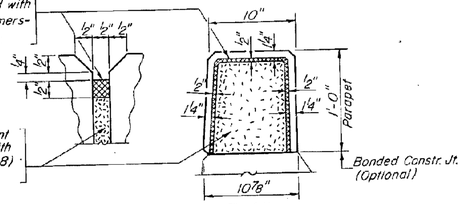


SEC. THRU SPLICE



CLAMP BAR

Two component non-staining gray sealing compound with polysulfide liquid polymers - gun grade with primer.



½" Preformed Cork Joint Filler (In accordance with Articles 715.07 or 715.08) Cost incidental.

PARAPET JOINT DETAIL

NOTES:

Stainless steel machine bolts or cap screws shall be in accordance with Article 710.37(a) of the Standard Specifications except Grade B&C or BEM may be furnished.

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

All joints in rail shall be spliced per detail.

Provide 1 - ⅛" and 2 - 1/16" Aluminum Shims for 25% of the Posts. Rail element shall be parallel to Grade - high spots shall be ground and low spots shimmed.

Seal perimeter of base of post to parapet with two component non-staining gray sealing compound with polysulfide liquid polymers, gun grade with primer. Fabric Bearing Pad shall have same dimensions as base of post.

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

PARAPETS & RAILS
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d_3	128	#4	2'0"	⊓
e_1	16	#4	16'-6"	—
e_2	64	#4	16'-3"	—
e_3	32	#4	11'-6"	—
e_4	32	#4	17'-0"	—
Reinforcement Bars		Lbs.	1640	
Class X Concrete		Cu. Yds.	15.1	
Aluminum Railing		Lin. Ft.	652	

ALUMINUM RAILING
F.A. 407 SEC. 1-6 VB
ADAMS COUNTY
STA. 161+44.62

DESIGNED	for Engr. Est.
CHECKED	Calvin Strong
DRAWN	Barbe Diermann
CHECKED	Calvin Strong

EXAMINED April 22 1975
ENGINEER OF BRIDGE AND GRAPHIC STRUCTURES
PASSED
ENGINEER OF DESIGN
APPROVED
DIRECTOR OF HIGHWAYS

R-17 4-15-73

FILE NAME: L:\Funhmann\Eng\240070890-001-L-172\70890\CADD Data\Bridge\CADD Sheets\Existing Plans\D6772250 - 004 - Existing Plans - IV.dgn

CMT
License No. 184-000613 © Copyright CMT, Inc.

USER NAME = vtan	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 6/1/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

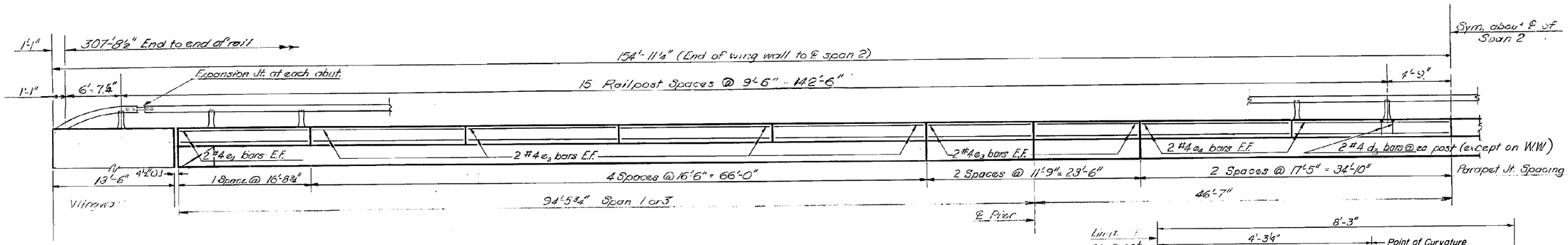
EXISTING PLANS - IV
STRUCTURE NO. 001-0050 (SB) & 001-0051 (NB)
SCALE: | SHEET 4 OF 16 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-6VBR	ADAMS	113	79
		CONTRACT NO. 72250		
		ILLINOIS	FED. AID PROJECT	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

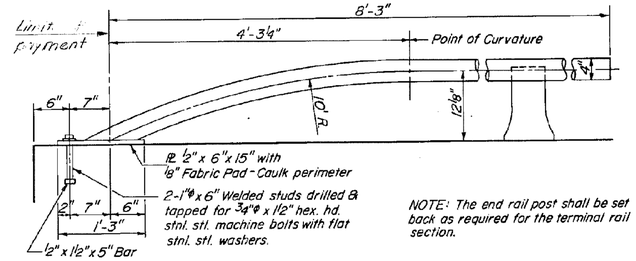
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI 407	1-6VB	ADAMS	52	18
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

SHEET NO. 11
2 SHEETS

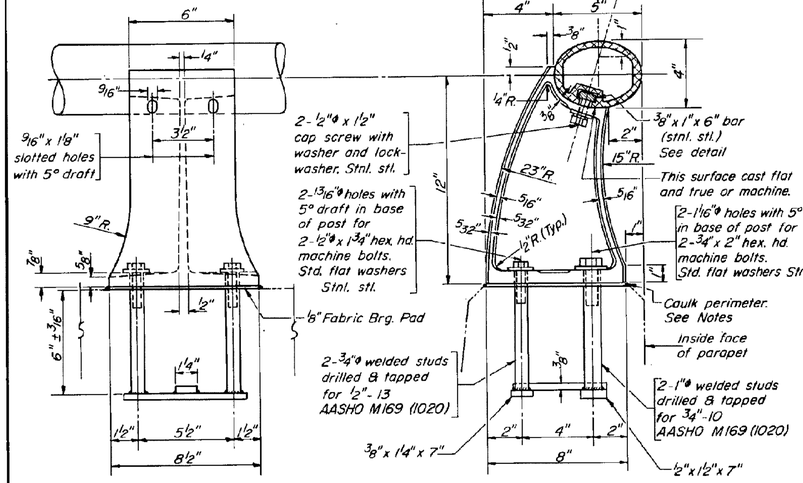


HALF ELEVATION

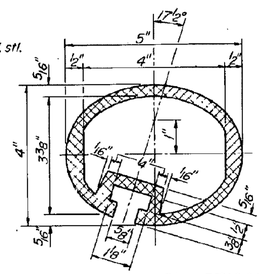
(Showing Inside face of East rail of Northbound lane or Inside face of West rail of Southbound lane.)



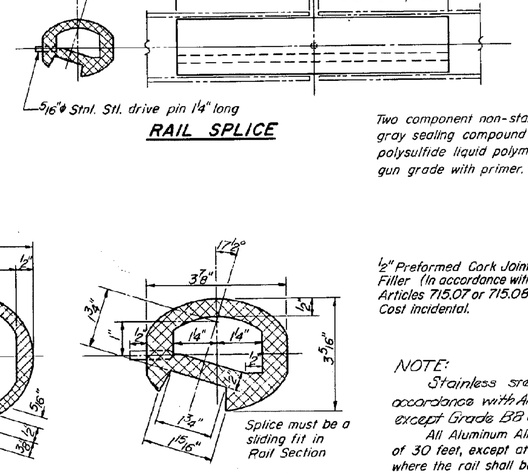
NOTE: The end rail post shall be set back as required for the terminal rail section.



RAIL POST DETAILS



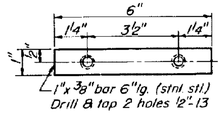
SEC. THRU ELLIPTICAL RAIL SECTION



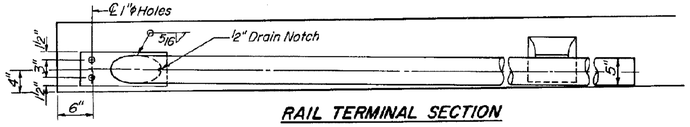
RAIL SPLICE

Splice must be a sliding fit in Rail Section

SEC. THRU SPLICE



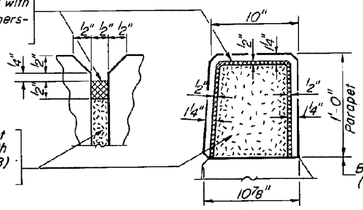
CLAMP BAR



RAIL TERMINAL SECTION

Two component non-staining gray sealing compound with polysulfide liquid polymers-gun grade with primer.

½" Preformed Cork Joint Filler (In accordance with Articles 715.07 or 715.08) Cost Incidental.



PARAPET JOINT DETAIL

NOTE:

Stainless steel machine bolts or cap screws shall be in accordance with Article 710.3716) of the Standard Specifications except Grade B8 or B8M may be furnished.

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

All joints in rail shall be spliced per detail.

Provide 1 - ⅛" and 2 - 1/16" Aluminum Shims for 25% of the Posts. Rail element shall be parallel to Grade - high spots shall be ground and low spots shimmed.

Seal perimeter of base of post to parapet with two component non-staining gray sealing compound with polysulfide liquid polymers, gun grade with primer. Fabric Bearing Pad shall have same dimensions as base of post.

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

PARAPETS & RAILS
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d_3	120	#4	2'-0"	□
e_1	16	#4	16'-6"	——
e_2	64	#4	16'-3"	——
e_3	32	#4	11'-6"	——
e_4	32	#4	17'-0"	——
Reinforcement Bars		Lbs.	16,210	
Class X Concrete		Cu. Yds.	18.5	
Aluminum Railing		Lin. Ft.	616	

ALUMINUM RAILING
FA 407 SEC. 1-6 VB
ADAMS COUNTY
STA. 161 + 44.62

DESIGNED	Joseph Edwards
CHECKED	Calvin Strang
DRAWN	Barbara Neumann
CHECKED	Calvin Strang

April 21 1976
EXAMINED Carl E. Neumann Jr.
ENGINEER OF BRIDGES AND TRAFFIC STRUCTURES
PASSED
ENGINEER OF DESIGN
APPROVED
DIRECTOR OF HIGHWAYS

R-17 4-15-73

FILE NAME: L:\Funmann\Eng\240070\89-00_I-172\708900\CADD Data\Bridge\CADD Sheets\Existing Plans\D672250 - 005 - Existing Plans - V.dgn

CMT
License No. 184-000613 © Copyright CMT, Inc.

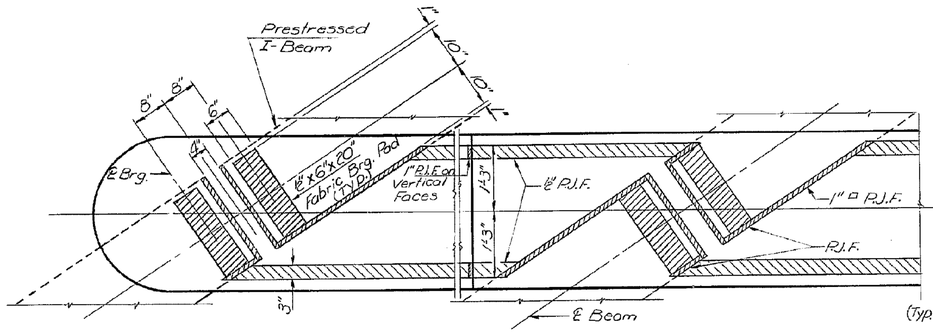
USER NAME = vtan	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING PLANS - V STRUCTURE NO. 001-0050 (SB) & 001-0051 (NB)
	DRAWN -	REVISED -		
	CHECKED -	REVISED -		
PLOT DATE = 6/1/2026	DATE -	REVISED -		SCALE: SHEET 5 OF 16 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-6VBR	ADAMS	113	80
		CONTRACT NO. 72250		
		ILLINOIS	FED. AID PROJECT	

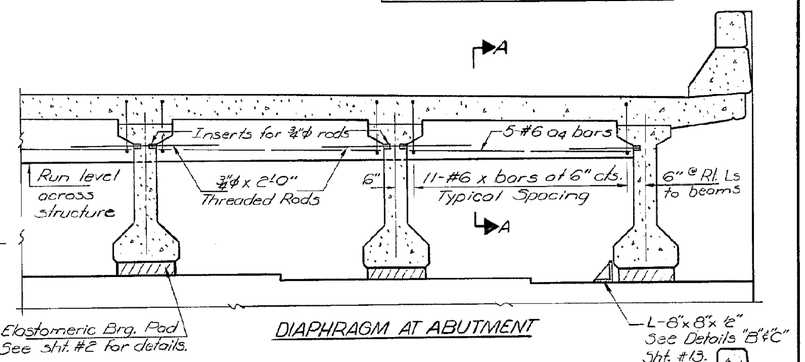
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 172	1-6VB	ADAMS	56	19
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 12
23 SHEETS

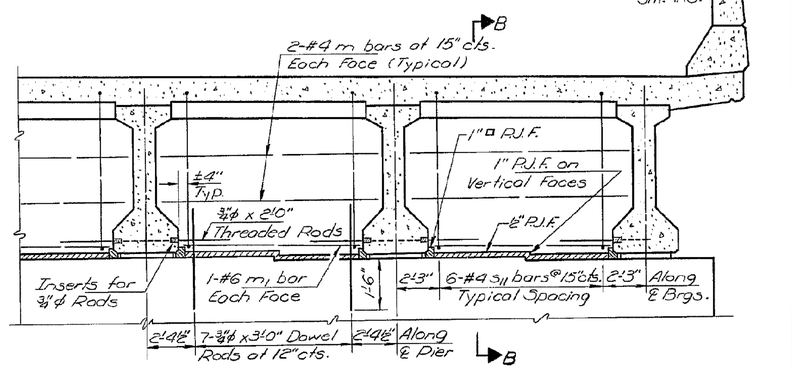
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



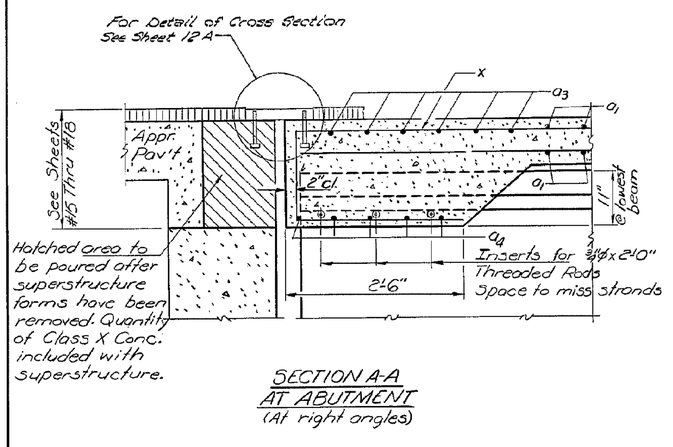
PLAN-P.J.F.
AT PIER 1



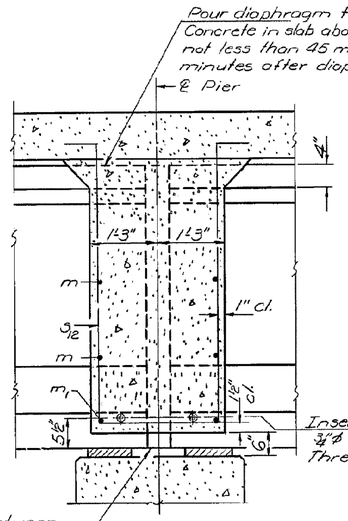
DIAPHRAGM AT ABUTMENT



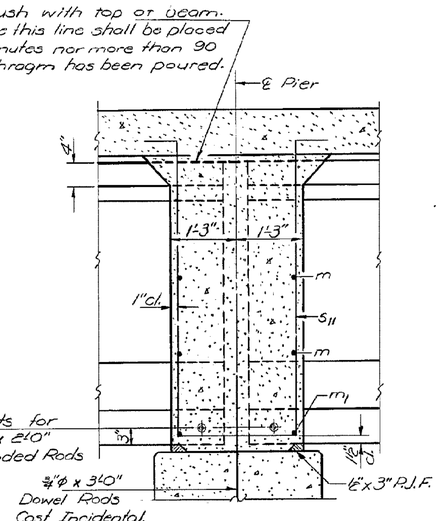
FULL DEPTH DIAPHRAGM AT PIER 1



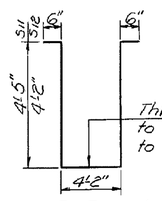
SECTION A-A
AT ABUTMENT
(At right angles)



SECTION C-C
AT PIER 2
(Expansion)
(Shown at right angles)

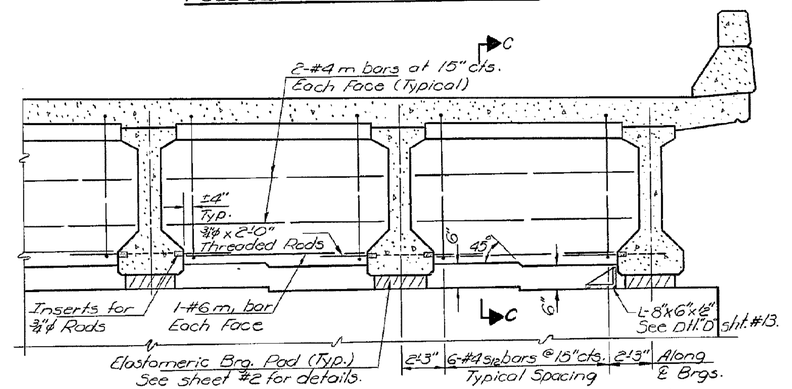


SECTION B-B
AT PIER 1
(Fixed)
(Shown at right angles)



BARS s11 & s12

FULL DEPTH DIAPHRAGM AT PIER 2



FULL DEPTH DIAPHRAGM AT PIER 2

DESIGNED	In. + El.		
CHECKED	Calvin Stitt		
DRAWN	R. Doty		
CHECKED	Calvin Stitt		

EXAMINED April 21, 1975
Earl E. Thurman Jr.
ENGINEER OF BRIDGES AND TRAFFIC STRUCTURES
PASSED
ENGINEER OF DESIGN
APPROVED
DIRECTOR OF HIGHWAYS

Note:
Reinforcement bars shown on this sheet are included in the Bill of Material on sheet #9.

DIAPHRAGM DETAILS
F.A. RT. 407 SEC. 1-6VB
ADAMS COUNTY
STA. 161+44.62

FILE NAME: L:\FurhmannEng\240070893-00_I-172\70893000\CADD Data\Bridge\CADD Sheets\Existing Plans\D6722250 - 006 - Existing Plans - VI.dgn

CMT
License No. 184-000813 © Copyright CMT, Inc.

USER NAME = vtan	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
	CHECKED -	REVISED -	
PLOT DATE = 6/1/2026	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

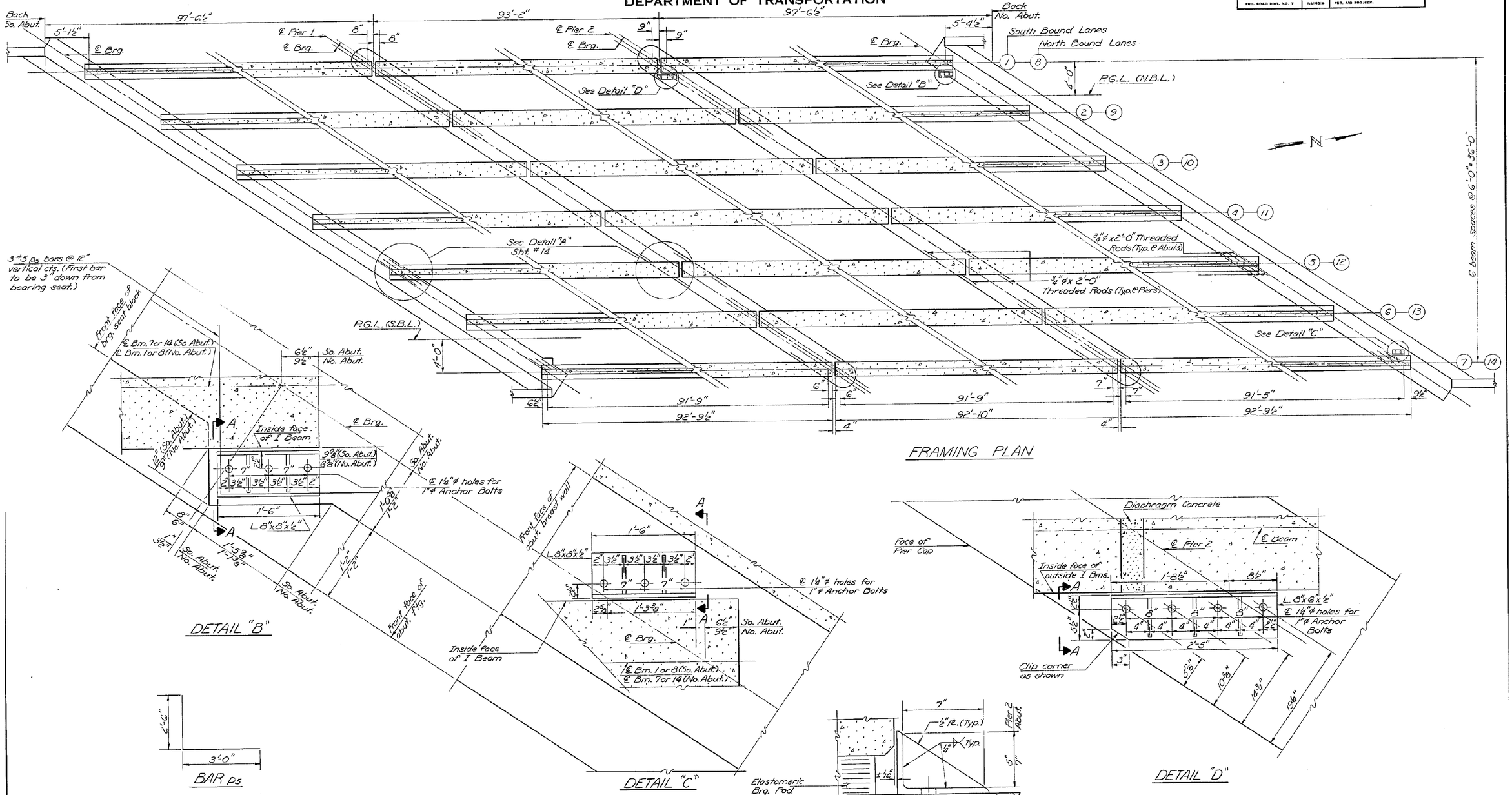
EXISTING PLANS - VI
STRUCTURE NO. 001-0050 (SB) & 001-0051 (NB)
SCALE: | SHEET 6 OF 16 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-6VBR	ADAMS	113	81
		CONTRACT NO. 72250		
	ILLINOIS	FED. AID PROJECT		

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 407	1-6VB	ADAMS	52	20
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

SHEET NO. 13
23 SHEETS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



DESIGNED	[signature]
CHECKED	[signature]
DRAWN	Joe Sutherland
CHECKED	[signature]

EXAMINED April 21 1975 — ENGINEER OF BRIDGE AND TRAFFIC STRUCTURES
PASSED — ENGINEER OF DESIGN
APPROVED — DIRECTOR OF HIGHWAYS

FRAMING DETAILS
F.A. RT. 407 SEC. 1-6VB
ADAMS COUNTY
STATION 161+44.62

FILE NAME: L:\FurhmannEng\24007089-00_I-172\708900\CADD Data\Bridge\CADD Sheets\Existing Plans\D672250 - 007 - Existing Plans - VII.dgn

CMT
License No. 184-000613 © Copyright CMT, Inc.

USER NAME = vtan	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 6/1/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

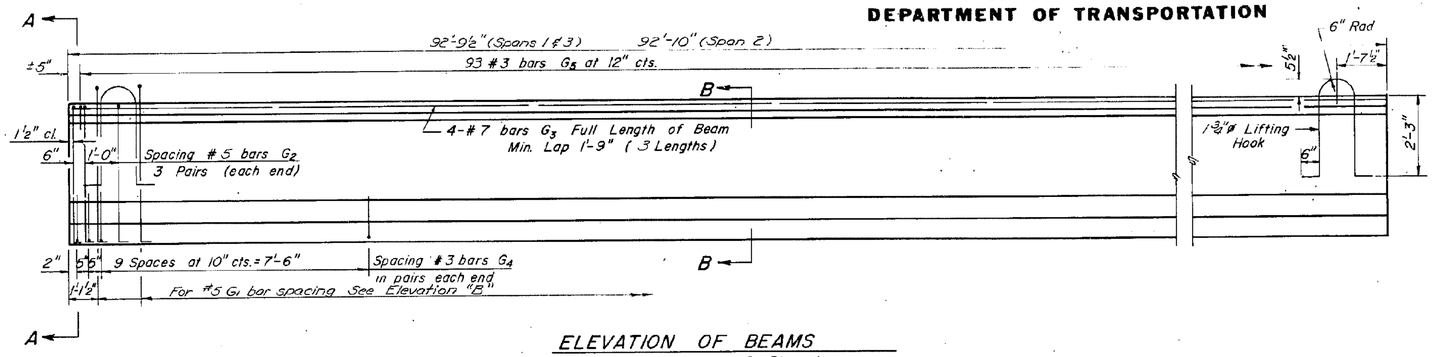
EXISTING PLANS - VII
STRUCTURE NO. 001-0050 (SB) & 001-0051 (NB)

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

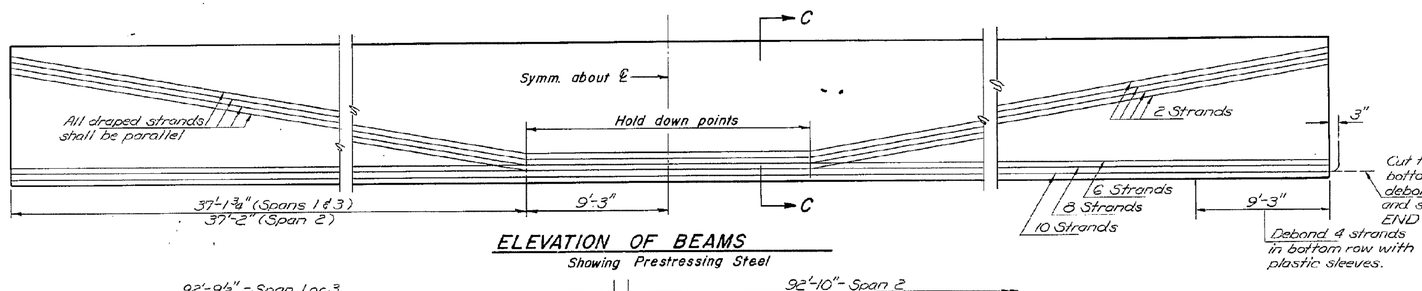
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-6VBR	ADAMS	113	82
		CONTRACT NO. 72250		
		ILLINOIS	FED. AID PROJECT	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

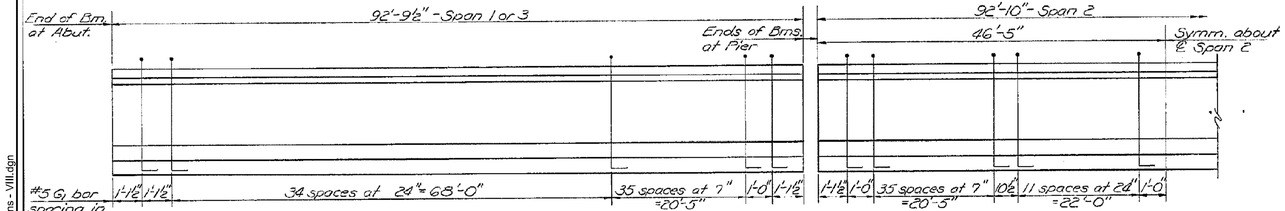
SHEET NO 14
23 SHEETS



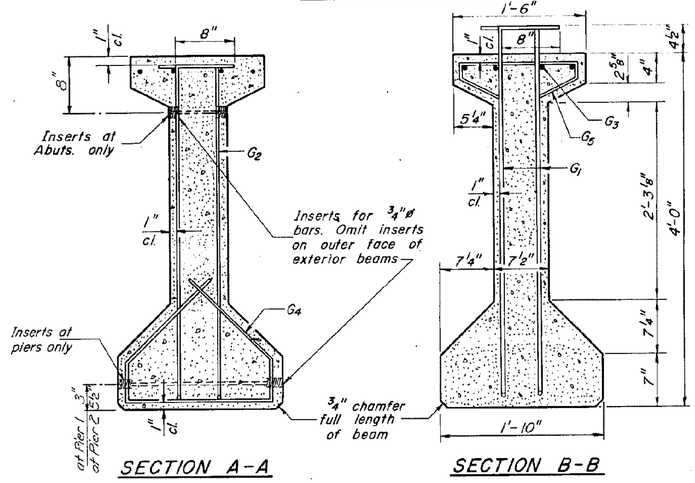
ELEVATION OF BEAMS
Showing Reinforcement & Dimensions



ELEVATION OF BEAMS
Showing Prestressing Steel

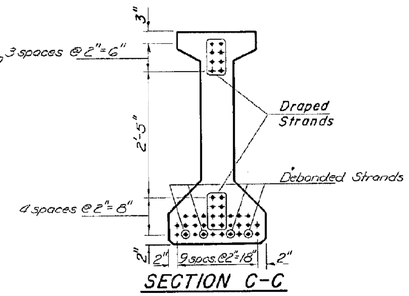


ELEVATION "B"

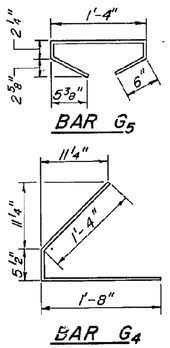


SECTION A-A

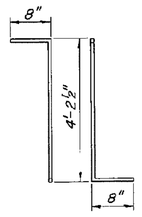
SECTION B-B



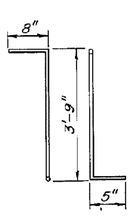
SECTION C-C



BAR G5



BAR G1



BAR G2

BAR G4

*BAR LIST SPANS 1 & 3

Bar	No	Size	Length	Shape
G1	144	#5	5'-6½"	7L
G2	12	#5	4'-10"	7L
G3	12	#7	32'-0"	—
G4	48	#3	3'-5½"	L
G5	93	#3	2'-8½"	▽

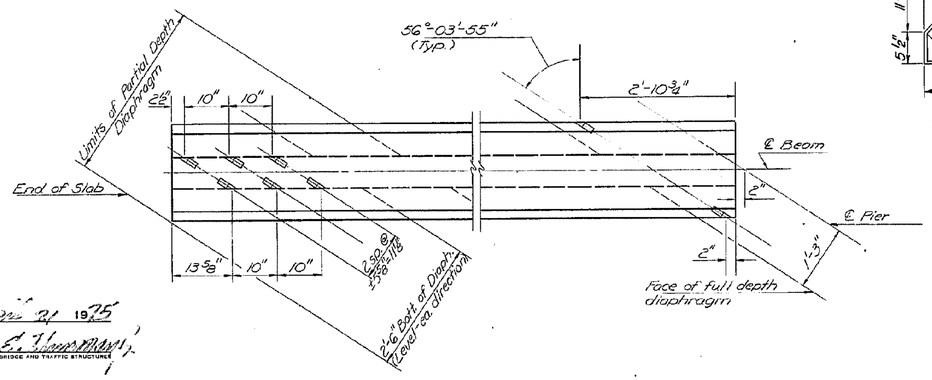
*BAR LIST SPAN 2

Bar	No	Size	Length	Shape
G1	196	#5	5'-6½"	7L
G2	12	#5	4'-10"	7L
G3	12	#7	32'-0"	—
G4	48	#3	3'-5½"	L
G5	93	#3	2'-8½"	▽

*For one beam only

BILL OF MATERIAL

Item	Unit	Total
Furnishing & Erecting Precast Prestressed Concrete I-Beams, 48"	Lin. Ft.	3898



AT ABUTMENTS
See Sec. A-A, Sht. #12

AT PIERS
See Sec. B-B & C-C, Sht. #12

DETAIL "A"
Locations of ¾"ø bar inserts

NOTES

All inserts and threaded rods for inserts, reinforcing and Prestressing Steel, and other items which are cast into the Precast Concrete I-Beams shall be included in the contract unit price per lineal foot of "Furnishing And Erecting Precast Prestressed Concrete I-Beams, 48 In."

Prestressing Steel shall have a nominal diameter of ½".

Inserts for ¾"ø threaded rods are to be two strut, coil type for interior I-Beams and single coil, flared loop type for exterior I-Beams.

Steel for lifting hooks shall be non-deformed bars f_y = 40,000 psi.

DESIGNED	-
CHECKED	
DRAWN	Joe Sutherland
CHECKED	

EXAMINED — April 21 1975 — Earl E. Hammond — ENGINEER OF BRIDGE AND TRAFFIC STRUCTURES
PASSED — ENGINEER OF DESIGN
APPROVED — DIRECTOR OF HIGHWAYS

PI-4-48 9-15-72

BEAM DETAILS
F.A. RT. 407 SEC. 1-6VB
ADAMS COUNTY
STATION 161+44.62

FILE NAME: L:\FurhmannEng\240070893-00_I-172\70893000\CADD Data\Bridge\CADD Sheets\Existing Plans\D6722250 - 008 - Existing Plans - VIII.dgn

CMT
License No. 184-000613 © Copyright CMT, Inc.

USER NAME = vtan	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 6/1/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS - VIII
STRUCTURE NO. 001-0050 (SB) & 001-0051 (NB)
SCALE: | SHEET 8 OF 16 SHEETS | STA. | TO STA.

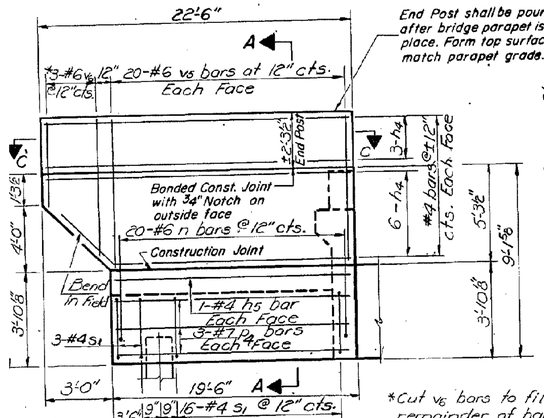
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-6VBR	ADAMS	113	83
		CONTRACT NO. 72250		
		ILLINOIS	FED. AID PROJECT	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 172	1-6VBR	ADAMS	113	84
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

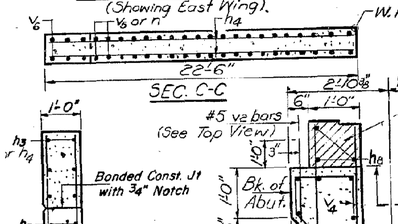
SHEET NO. 15
23 SHEETS

WING WALL ELEVATION
(Showing East Wing)

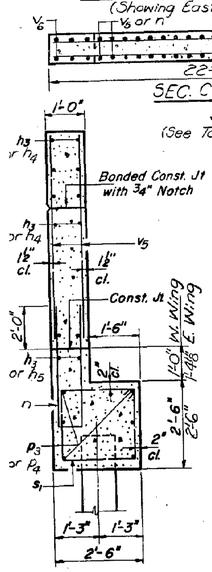


*Cut v6 bars to fit & use remainder of bars in opposite face.

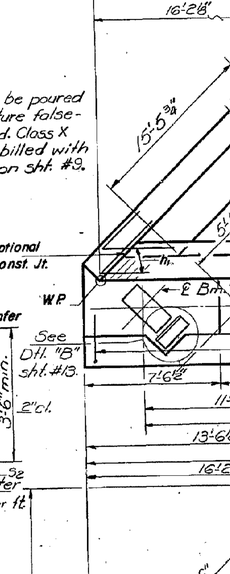
SEC. C-C



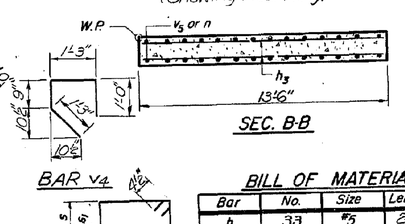
SEC. A-A



SEC. THRU ABUT.

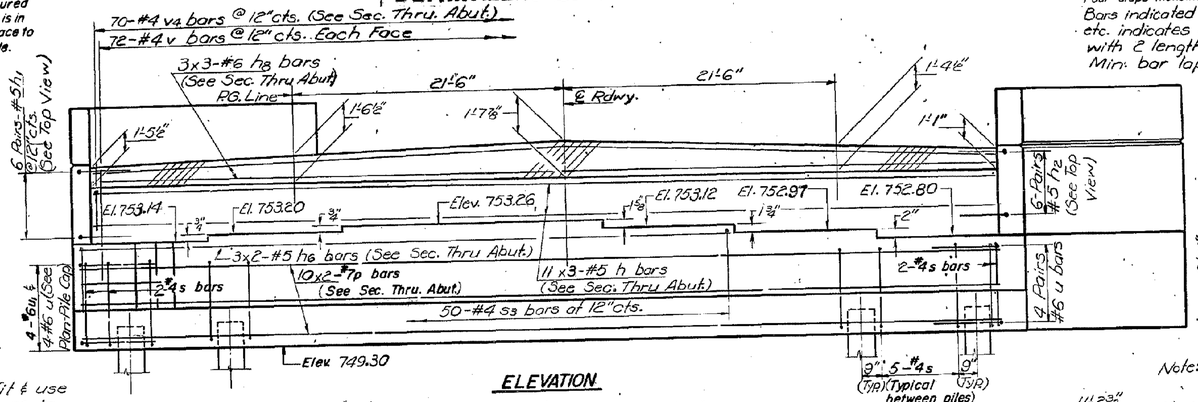


WING WALL ELEVATION
(Showing West Wing)



SEC. B-B

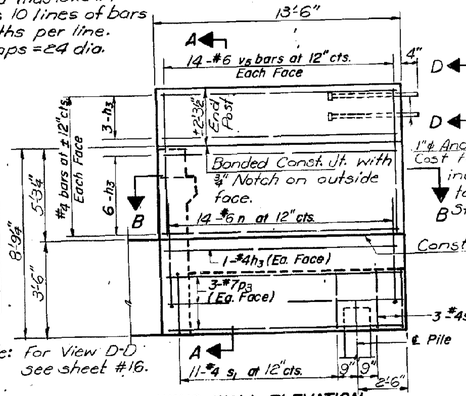
ELEVATION



Space reinforcement in cap to miss anchor bolts.

Pour steps monolithically with cap.

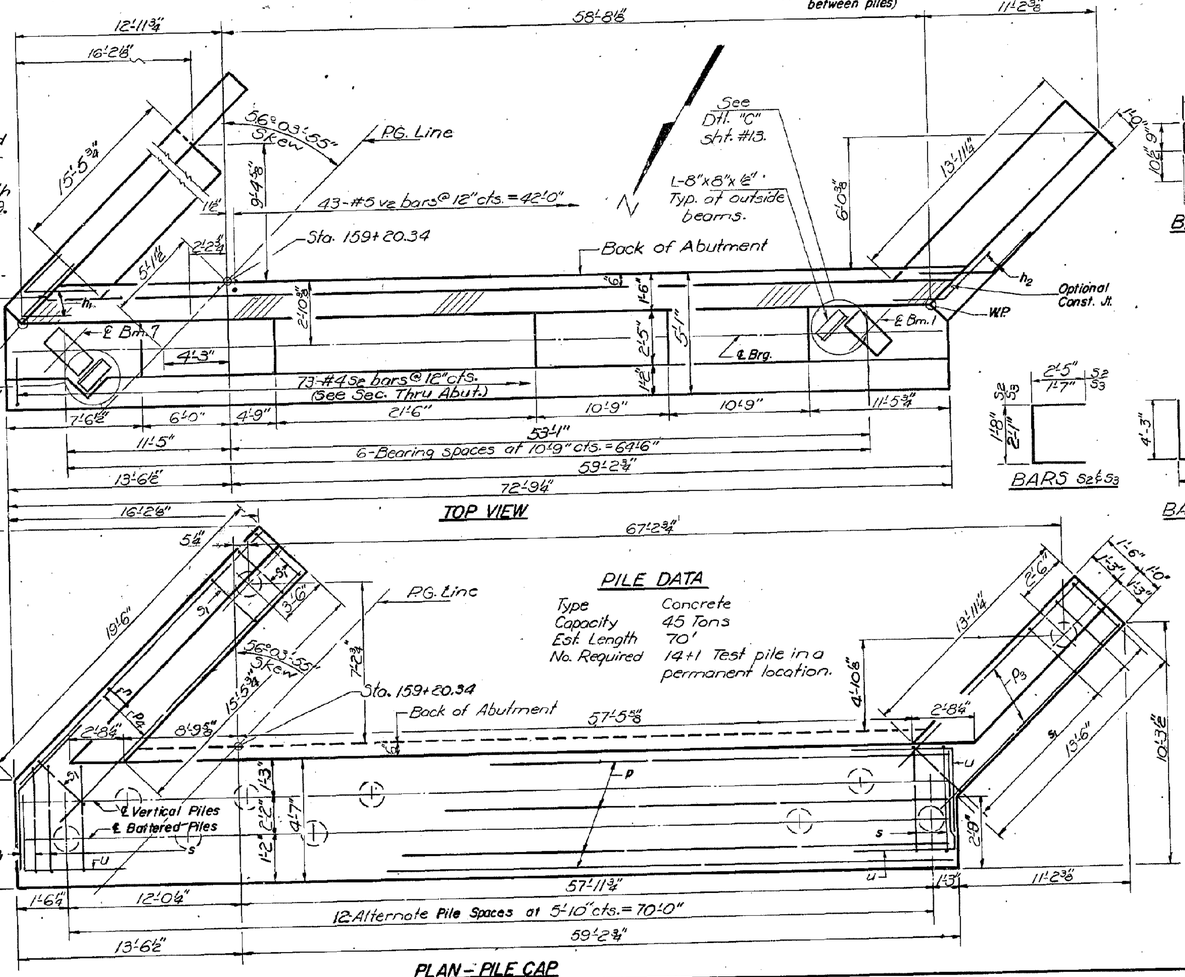
Bars indicated thus 10x2-#7 etc. indicates 10 lines of bars with 2 lengths per line. Min. bar laps = 24 dia.



Note: For View D-D see sheet #16.

WING WALL ELEVATION
(Showing West Wing)

TOP VIEW

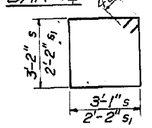


PILE DATA

Type	Concrete
Capacity	45 Tons
Est. Length	70'
No. Required	14+1 Test pile in a permanent location.

PLAN - PILE CAP

BAR v4

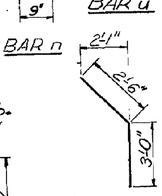


BAR s & s1

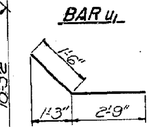
BAR s2 & s3

BAR u

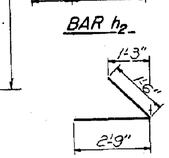
BAR n



BAR u1



BAR h2



BAR h1

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h	33	#5	24'-9"	
h1	12	#5	41'-3"	
h2	12	#5	41'-3"	
h3	20	#4	13'-9"	
h4	18	#4	22'-9"	
h5	2	#4	19'-3"	
h6	6	#5	25'-9"	
h8	9	#6	25'-0"	
n	34	#6	9'-3"	
p	20	#7	37'-3"	
p3	6	#7	15'-9"	
p4	6	#7	19'-3"	
p5	3	#5	5'-6"	
s	64	#4	13'-3"	
s1	33	#4	3'-5"	
s2	73	#4	6'-6"	
s3	50	#4	5'-3"	
u	12	#6	4'-6"	
u1	4	#6	5'-6"	
v	144	#4	7'-6"	
v2	43	#5	2'-0"	
v4	70	#4	4'-3"	
v5	68	#6	7'-3"	
v6	3	#6	10'-0"	
Class X Concrete		Cu. Yds.	70.7	
Reinforcement Bars		Lbs.	7550	
Concrete Piles		Lin. Ft.	980	
Test Piles (Concrete)		Ea.	1	

For detail & placement of bar ps see sheet #13.

SOUTH ABUTMENT
SOUTH BOUND LANES
F.A. RT. 407 SEC. 1-6VB
ADAMS COUNTY
STA. 161+44.62

DESIGNED	J. M. Edwards
CHECKED	Calvin Ehlers
DRAWN	R. Doty
CHECKED	Calvin Ehlers

EXAMINED April 21 1975
Paul E. Thompson
ENGINEER OF BRIDGE AND TRAFFIC STRUCTURES
PASSED
ENGINEER OF DESIGN
APPROVED
DIRECTOR OF HIGHWAYS

A-9-R (35°-60°) 3-23-71

FILE NAME: L:\FurhmannEng\240070089-00 I-172\708900\CADD Data\Bridge\CADD Sheets\Existing Plans\D672250 - 009 - Existing Plans - IX.dgn

CMT
License No. 184-000613 © Copyright CMT, Inc.

USER NAME = vtan	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING PLANS - IX STRUCTURE NO. 001-0050 (SB) & 001-0051 (NB)	
	DRAWN -	REVISED -			
	CHECKED -	REVISED -			
PLOT DATE = 6/1/2026	DATE -	REVISED -		SCALE:	SHEET 9 OF 16 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-6VBR	ADAMS	113	84
		CONTRACT NO. 72250		
	ILLINOIS	FED. AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

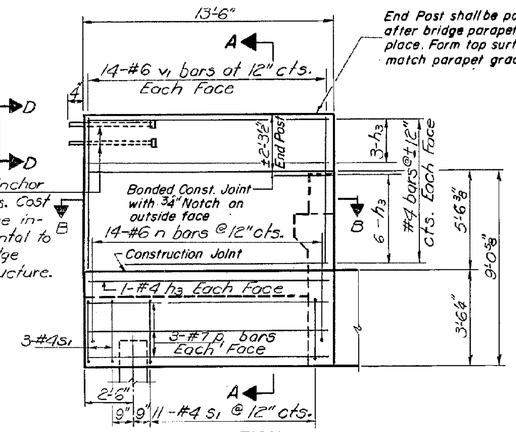
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 172	1-6VBR	ADAMS	113	85
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

SHEET NO. 16
23 SHEETS

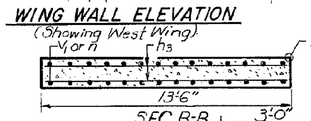
Space reinforcement in cap to miss anchor bolts.

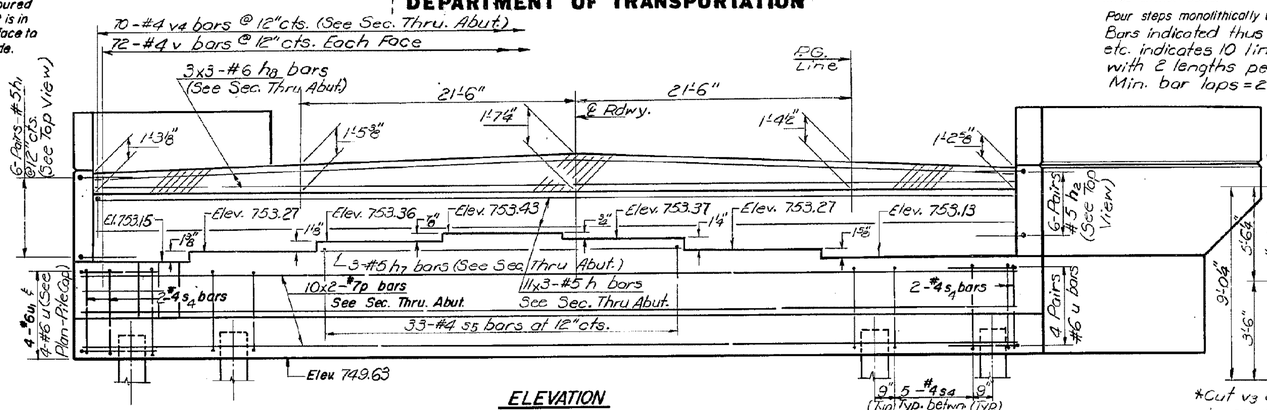
Pour steps monolithically with cap.

Bars indicated thus 10x2-#7 etc. indicates 10 lines of bars with 2 lengths per line. Min. bar laps = 24 dia.



WING WALL ELEVATION
(Showing West Wing)

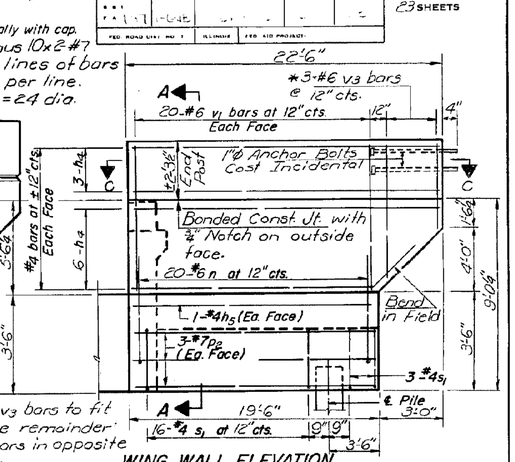




ELEVATION

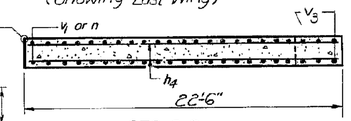
Space reinforcement in cap to miss anchor bolts.

Pour steps monolithically with cap. Bars indicated thus 10x2-#7 etc. indicates 10 lines of bars with 2 lengths per line. Min. bar laps = 24 dia.

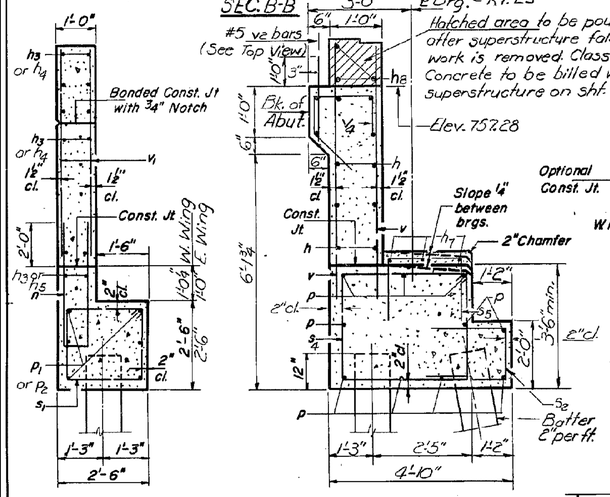


*Cut v3 bars to fit & use remainder of bars in opposite face.

WING WALL ELEVATION
(Showing East Wing)



SEC. C-C

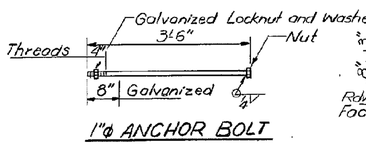


SEC. A-A

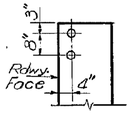
SEC. THRU ABUT.

Hatched area to be poured after superstructure falsework is removed. Class X Concrete to be billed with superstructure on Sht. #9.

℄ Brg. @ Rt. Ls



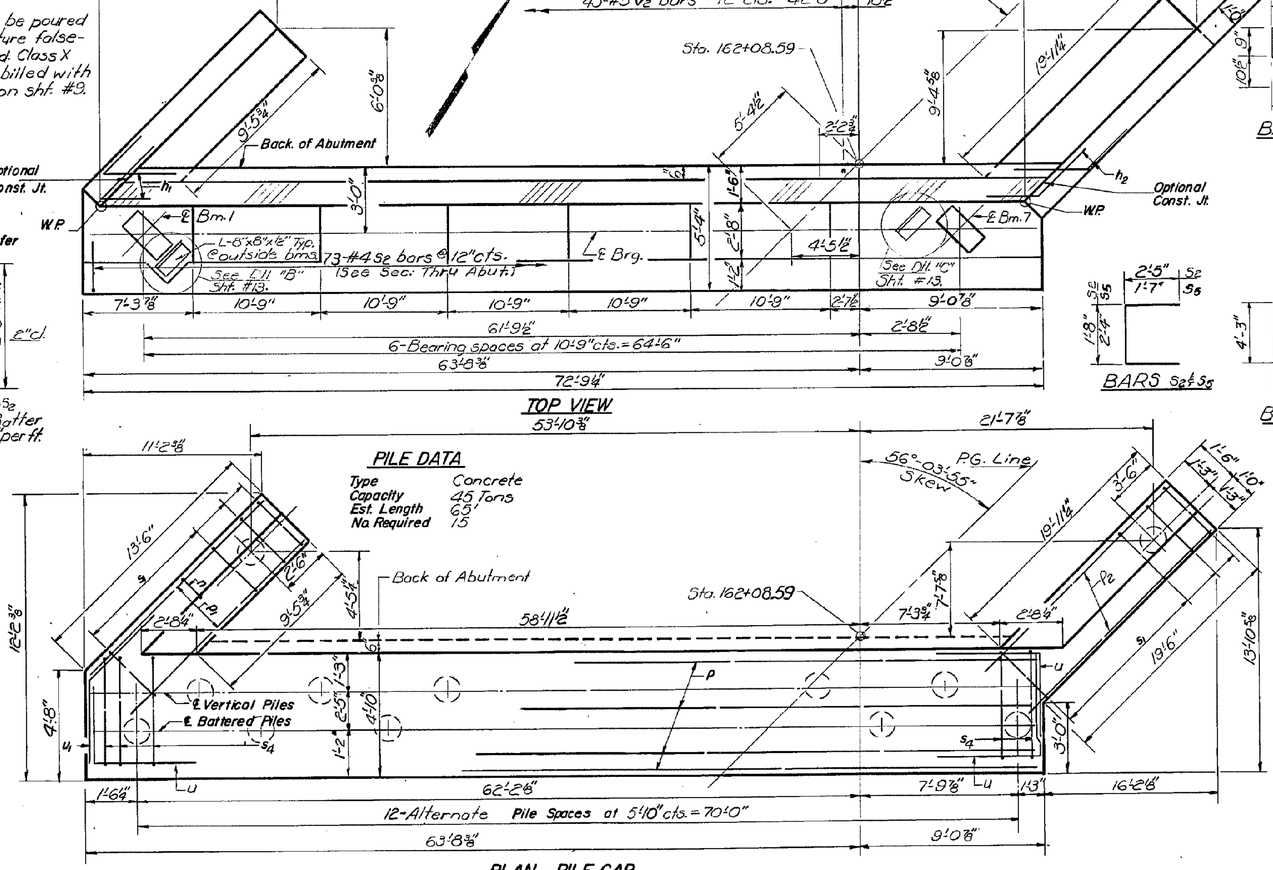
1"ϕ ANCHOR BOLT



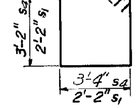
VIEW D-D

DESIGNED	
CHECKED	
DRAWN	R. Doty
CHECKED	

EXAMINED — April 21, 1975
ENGINEER OF BRIDGE AND TRAFFIC STRUCTURES
PASSED
ENGINEER OF DESIGN
APPROVED
DIRECTOR OF HIGHWAYS

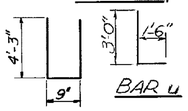


BAR v4



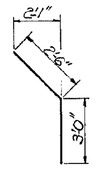
BARS s2 & s5

BAR s4 & s1

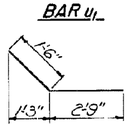


BAR u

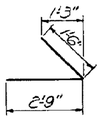
BAR n



BAR u1



BAR h2



BAR h1

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h	33	#5	24'-9"	—
h1	12	#5	4'-3"	↘
h2	12	#5	4'-3"	↙
h3	20	#4	13'-3"	—
h4	18	#4	22'-3"	—
h5	2	#4	19'-3"	—
h7	3	#5	32'-0"	—
h8	9	#6	25'-0"	—
n	34	#6	9'-3"	⊔
p	20	#7	37'-3"	—
p1	6	#7	13'-3"	—
p2	6	#7	21'-9"	—
p5	3	#5	5'-6"	∨
s1	33	#4	9'-5"	□
s2	73	#4	6'-6"	⊐
s4	64	#4	13'-9"	□
s5	33	#4	5'-6"	□
u	12	#6	4'-6"	L
u1	4	#6	5'-6"	⌋
v	144	#4	7'-6"	—
v1	68	#6	7'-6"	—
v2	43	#5	2'-0"	—
v3	3	#6	10'-3"	—
v4	70	#4	4'-3"	□
Class X Concrete		Cu. Yds.	72.6	
Reinforcement Bars		Lbs.	7480	
Concrete Piles		Lin. Ft.	975	

For detail & placement of bar p5 see sheet #13.

NORTH ABUTMENT
SOUTH BOUND LANES
F.A. RT. 407 SEC. 1-6VB
ADAMS COUNTY
STA. 161+44.62

A-9-R (35°-60°) 3-23-71

FILE NAME: L:\Furhmann\Eng\240070893-00_I-172\708900\CADD Data\Bridge\CADD Sheets\Existing Plans\D6722250 - 010 - Existing Plans - X.dgn

CMT
License No. 184-000613 © Copyright CMT, Inc.

USER NAME = vtan	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
	CHECKED -	REVISED -	
PLOT DATE = 6/1/2026	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS - X
STRUCTURE NO. 001-0050 (SB) & 001-0051 (NB)

SCALE: | SHEET 10 OF 16 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-6VBR	ADAMS	113	85
		CONTRACT NO. 72250		
		ILLINOIS	FED. AID PROJECT	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

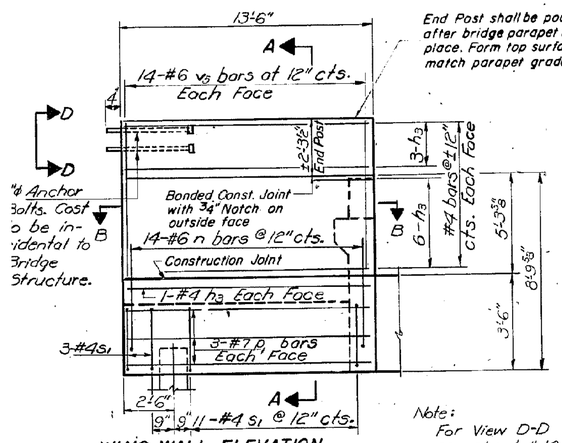
ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

SHEET NO. 17
23 SHEETS

Space reinforcement in cap to miss anchor bolts.

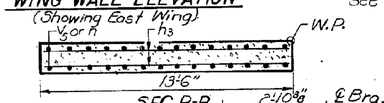
Pour steps monolithically with cap.

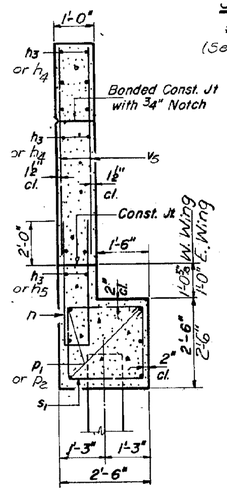
Bars indicated thus 10x2-#7 etc. indicates 10 lines of bars with 2 lengths per line. Min. bar laps = 24 dia.



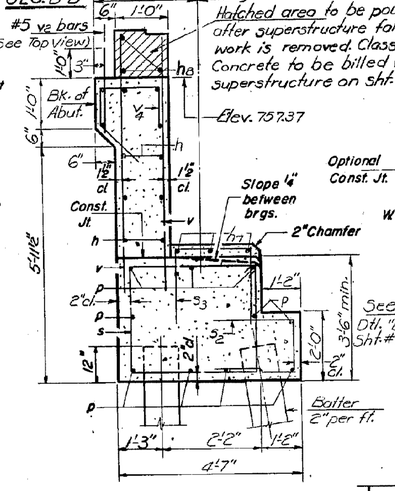
WING WALL ELEVATION
(Showing East Wing)

Note: For View D-D see sheet #18.

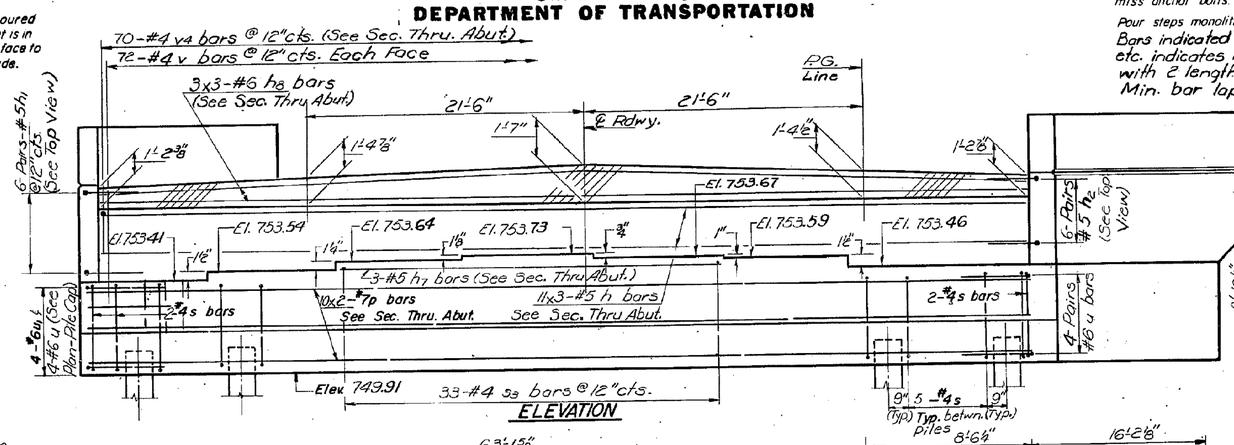




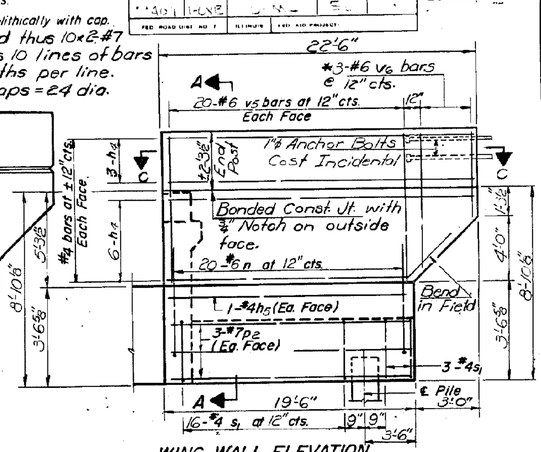
SEC. A-A



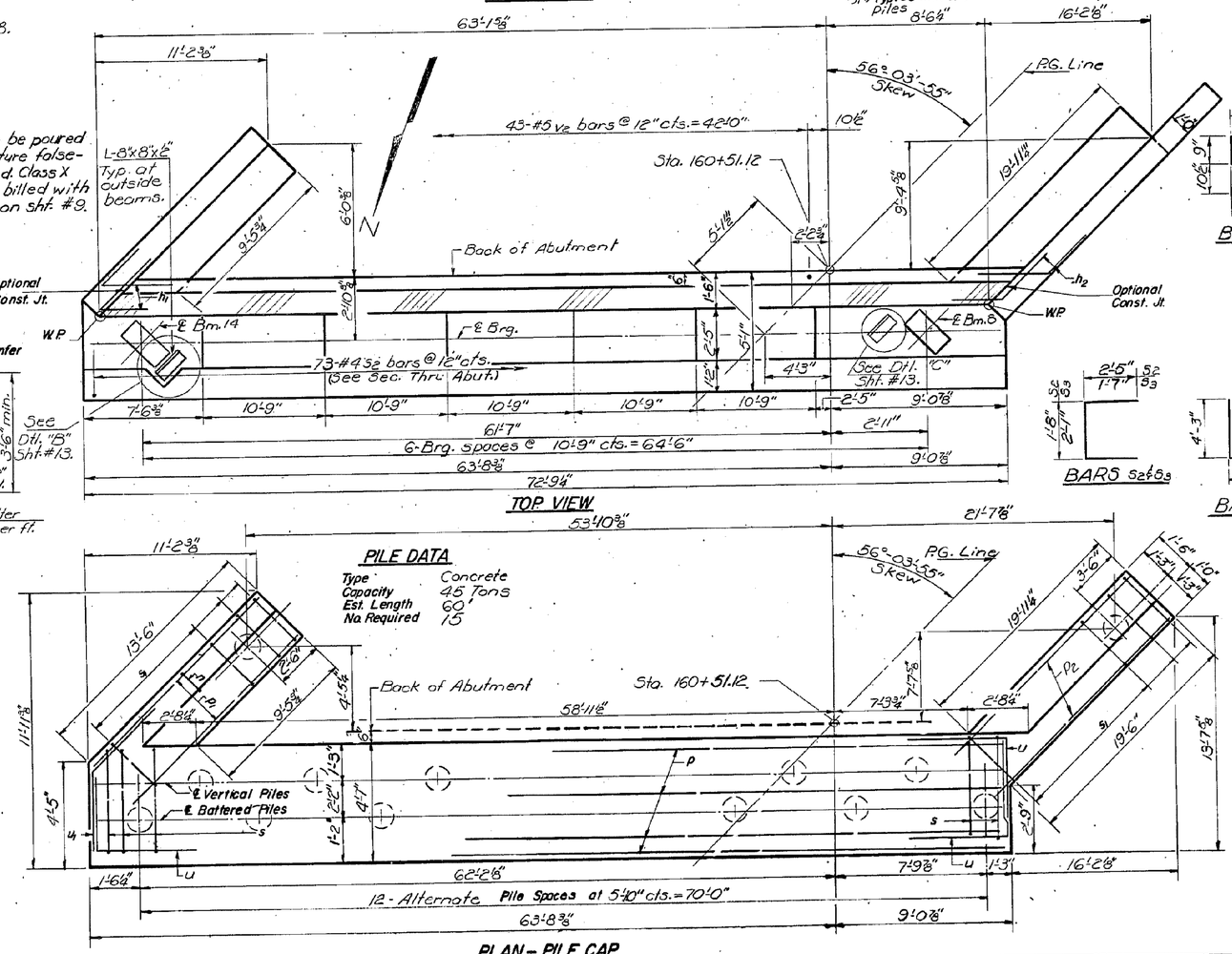
SEC. THRU ABUT.



ELEVATION



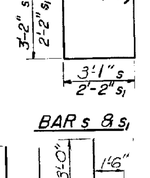
WING WALL ELEVATION
(Showing West Wing)



TOP VIEW

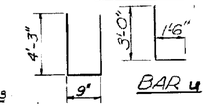
PLAN - PILE CAP

BAR v4



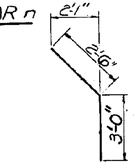
BAR s & s1

BARS s2 & s3

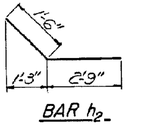


BAR u

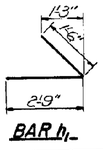
BAR n



BAR u1



BAR h2



BAR h1

SEC. C-C

*Cut v6 bars to fit & use remainder of bars in opposite face.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h	33	#5	24'-9"	
h1	12	#5	4'-3"	
h2	12	#5	4'-3"	
h3	20	#4	13'-3"	
h4	16	#4	22'3"	
h5	2	#4	19'3"	
h7	3	#5	32'-0"	
h8	9	#6	25'-0"	
n	34	#6	9'-3"	
p	20	#7	37'-3"	
p1	6	#7	13'3"	
p2	6	#7	21'-9"	
p5	3	#5	5'-6"	
s	64	#4	13'3"	
s1	33	#4	9'5"	
s2	73	#4	6'-6"	
s3	33	#4	5'3"	
u	12	#6	4'-6"	
u1	4	#6	5'-6"	
v	144	#4	7'-6"	
v2	43	#5	2'-0"	
v4	70	#4	4'3"	
v5	68	#6	7'3"	
v6	3	#6	10'-0"	
Class X Concrete			Cu. Yds.	69.5
Reinforcement Bars			Lbs.	7420
Concrete Piles			Lin. Ft.	900

For detail & placement of bar p5 see sheet #13.

SOUTH ABUTMENT
NORTH BOUND LANES
F.A. RT. 407 SEC. 1-6VB
ADAMS COUNTY
STA. 161+44.62

DESIGNED	[illegible]
CHECKED	[illegible]
DRAWN	R. Doty
CHECKED	[illegible]

EXAMINED [illegible] 19 75
ENGINEER OF BRIDGES AND TRAFFIC STRUCTURES
PASSED
ENGINEER OF DESIGN
APPROVED
DIRECTOR OF HIGHWAYS

A-9-R (35°-60°) 3-23-71

FILE NAME: L:\Funhmann\Eng\240070089-00_I-172\70890\0\CADD Data\Bridge\CADD Sheets\Existing Plans\D672250 - 011 - Existing Plans - XI.dgn

CMT
License No. 184-000613 © Copyright CMT, Inc.

USER NAME = vtan	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 7/8/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS - XI
STRUCTURE NO. 001-0050 (SB) & 001-0051 (NB)
SCALE: | SHEET 11 OF 16 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-6VBR	ADAMS	113	85
		CONTRACT NO. 72250		
		ILLINOIS	FED. AID PROJECT	

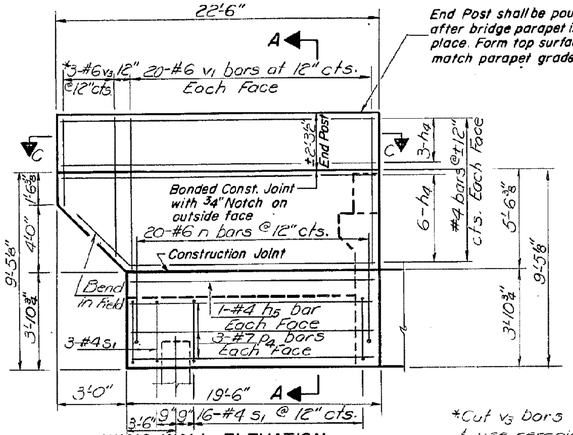
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 172	1-6VB			-
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

SHEET NO. 16
23 SHEETS

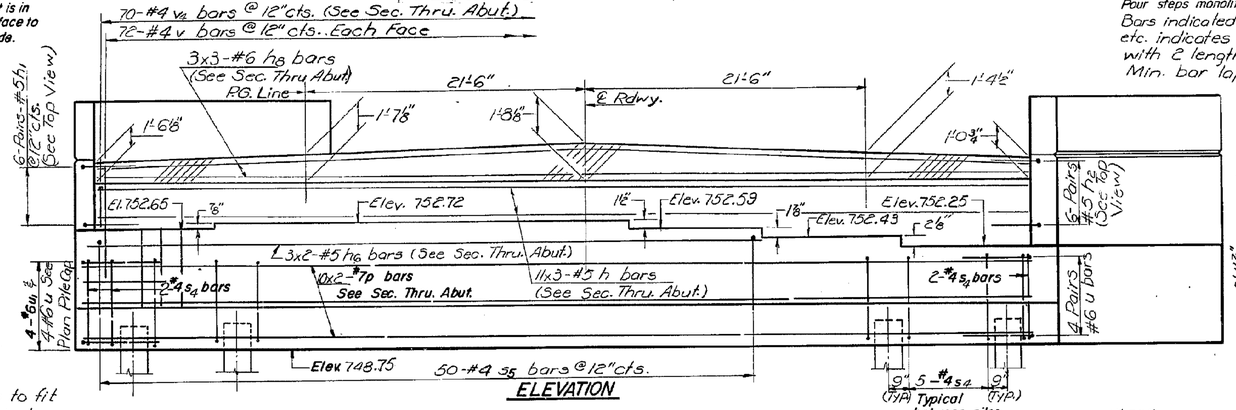
Space reinforcement in cap to miss anchor bolts.

Pour steps monolithically with cap. Bars indicated thus 10x2-#7 etc. indicates 10 lines of bars with 2 lengths per line. Min. bar laps = 24 dia.

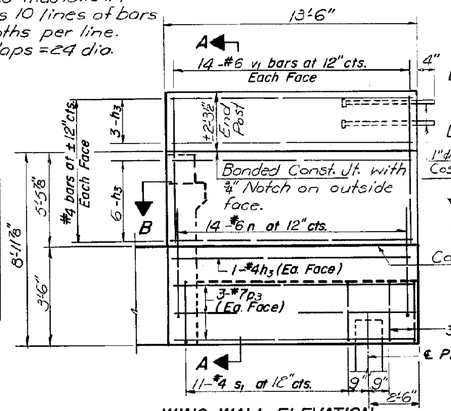


WING WALL ELEVATION
(Showing West Wing)

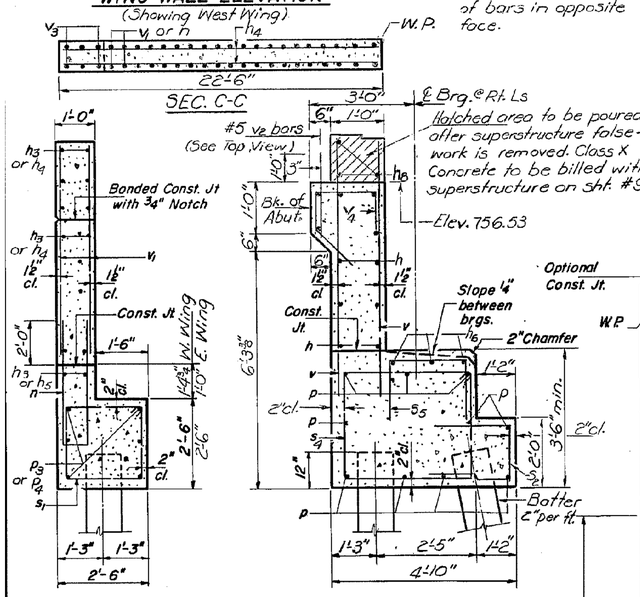
*Cut v3 bars to fit & use remainder of bars in opposite face.



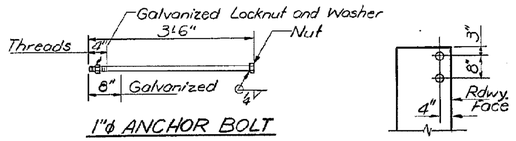
ELEVATION



WING WALL ELEVATION
(Showing East Wing)



SEC. A-A **SEC. THRU ABUT.**

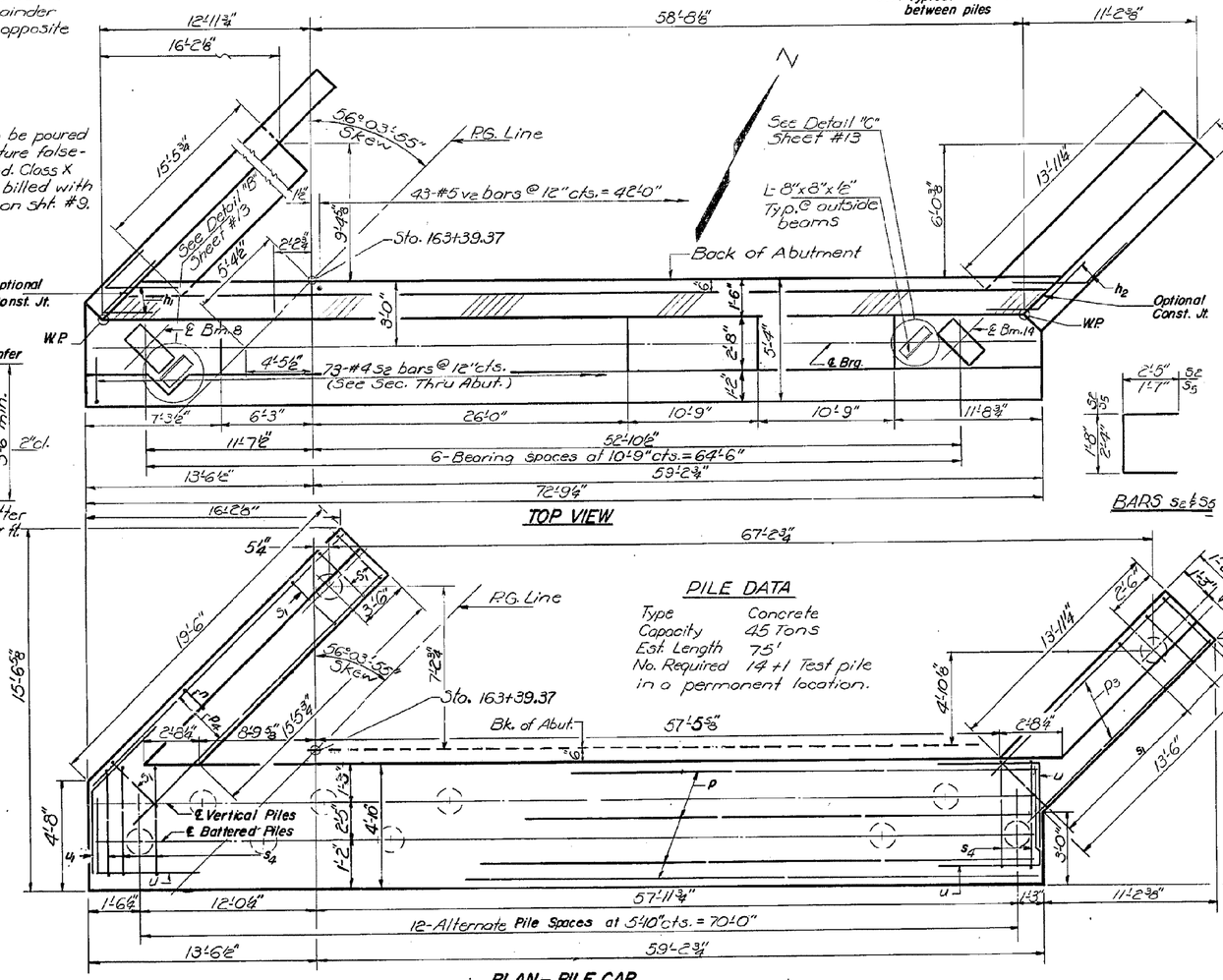


1"ø ANCHOR BOLT **VIEW D-D**

DESIGNED	K. G. L.
CHECKED	G. L.
DRAWN	R. Doty
CHECKED	

EXAMINED: April 21, 1972
ENGINEER OF BRIDGE AND TRAFFIC STRUCTURES
PASSED
ENGINEER OF DESIGN
APPROVED
DIRECTOR OF HIGHWAYS

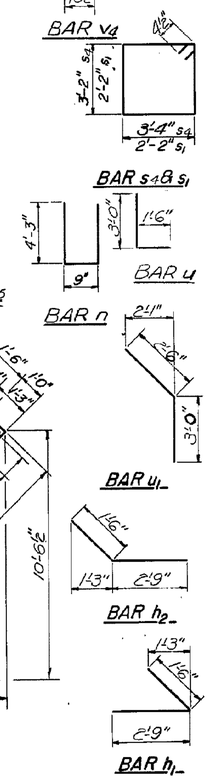
A-9-R (35°-60°) 3-23-71



PLAN – PILE CAP

PILE DATA

Type	Concrete
Capacity	45 Tons
Est. Length	75'
No. Required	14+1 Test pile in a permanent location.



BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h	33	#5	24'-9"	—
h1	12	#5	4'-3"	↘
h2	12	#5	4'-3"	↙
h3	20	#4	13'-3"	—
h4	18	#4	22'-3"	—
h5	2	#4	19'-3"	—
h6	6	#5	25'-9"	—
h8	9	#6	25'-0"	—
n	34	#6	9'-3"	⊔
p	20	#7	37'-3"	—
p3	6	#7	15'-9"	—
p4	6	#7	19'-3"	—
p5	3	#5	5'-6"	∨
s1	33	#4	9'-5"	◹
s2	73	#4	6'-6"	⊐
s4	64	#4	13'-9"	◪
s5	50	#4	5'-6"	⊓
u	12	#6	41'-6"	⊔
u1	4	#6	5'-6"	⊐
v	144	#4	7'-6"	—
v1	68	#6	7'-6"	—
v2	43	#5	2'-0"	—
v3	3	#6	10'-5"	—
v4	70	#4	4'-3"	⊓
Class X Concrete		Cu. Yds.	714.4	
Reinforcement Bars		Lbs.	76600	
Concrete Piles		Lin. Ft.	1050	
Test Piles (Concrete)		Ea.	1	

For detail & placement of bar ps see sheet #13.

NORTH ABUTMENT
NORTH BOUND LANES
F.A. RT 407 SEC. 1-6VB
ADAMS COUNTY
STA. 161+44.62

FILE NAME: L:\FurhmannEng\240070893-00 I-172\70893000\CADD Data\Bridge\CADD Sheets\Existing Plans\D0722250 - 012 - Existing Plans - XII.dgn

CMT
License No.: 184-000613 © Copyright CMT, Inc.

USER NAME = vtan	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
	CHECKED -	REVISED -	
PLOT DATE = 6/1/2026	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS - XII
STRUCTURE NO. 001-0050 (SB) & 001-0051 (NB)
SCALE: SHEET 12 OF 16 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-6VBR	ADAMS	113	87
		CONTRACT NO. 72250		
	ILLINOIS	FED. AID PROJECT		

NOTES:

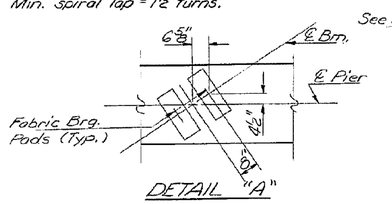
All edges shall have standard ¾" chamfer except as noted.
Four steps monolithically with cap.
Min. spiral lap = 1½ turns.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

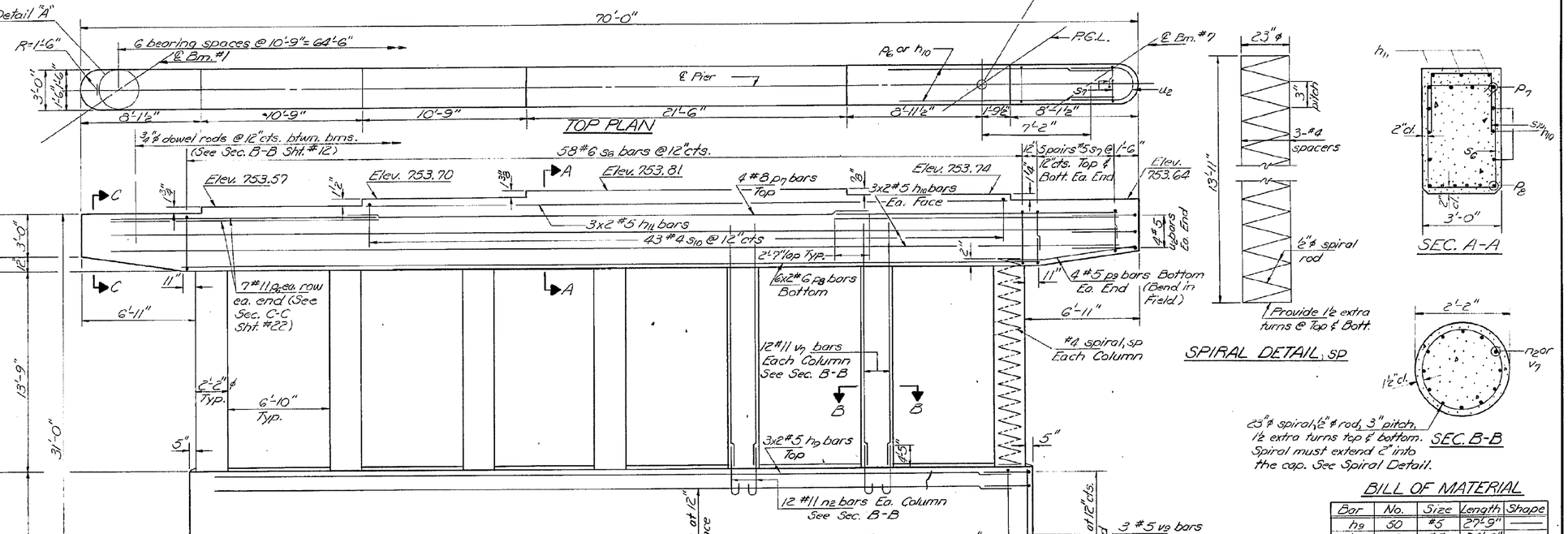
Note: Bars indicated thus 20x3 #5 etc. indicates 20 lines of bars with 3 lengths per line.
Min bar laps = 24 dia.

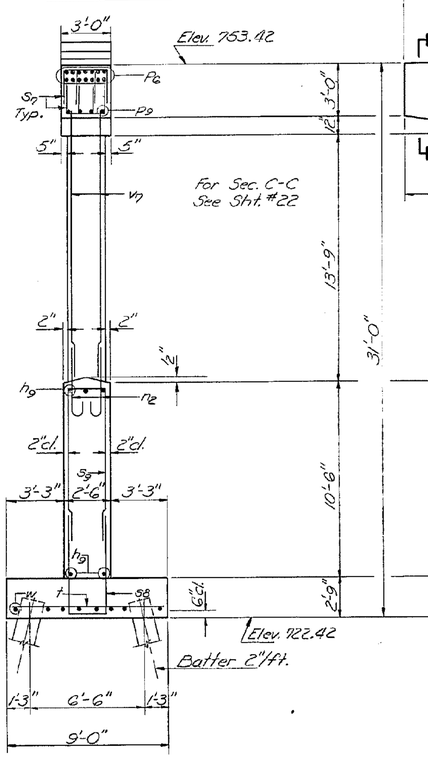
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. RTE. 407	1-6VB	ADAMS	52	21
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

SHEET NO. 19
23 SHEETS

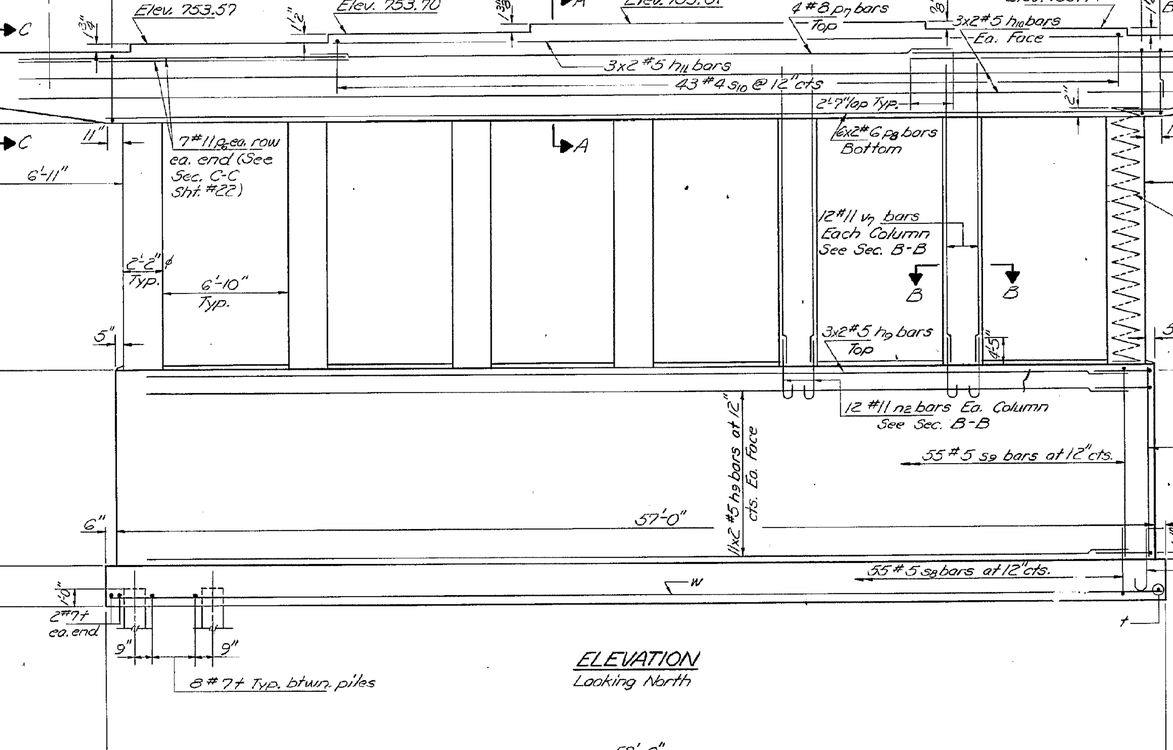


DETAIL "A"





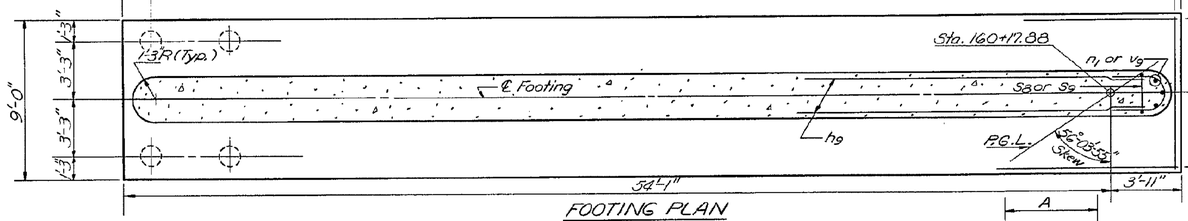
END VIEW



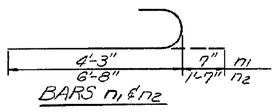
ELEVATION
Looking North

PILE DATA

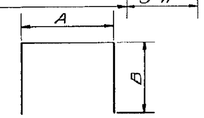
Type:	Concrete
Capacity:	45 Ton
Est. Length:	60'
No. Required:	28



FOOTING PLAN



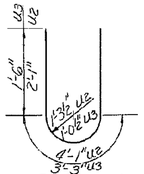
BARS n1 & n2



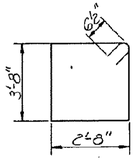
BARS s9, s8, s9 & s10

A&B DIMENSIONS

Bar	A	B
s9	1'-10"	2'-9"
s8	2'-2"	4'-2"
s9	2'-2"	10'-2"
s10	2'-8"	1'-5"



BARS u2 & u3



BAR s6

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h9	50	#5	27'-9"	——
h10	12	#5	34'-0"	——
h11	6	#5	22'-0"	——
n1	6	#5	4'-10"	⌐
n2	84	#11	8'-3"	⌐
P6	28	#11	18'-9"	——
P7	4	#8	34'-9"	——
P8	12	#6	30'-0"	——
P9	8	#5	8'-0"	——
s6	58	#6	13'-9"	□
s7	40	#5	7'-4"	□
s8	55	#5	10'-6"	□
s9	55	#5	22'-6"	□
s10	43	#4	5'-6"	□
sp	7	#4	*13'-11"	WWW
t	108	#7	8'-9"	——
u2	8	#5	8'-3"	⌐
u3	24	#5	6'-3"	⌐
v7	84	#11	17'-3"	——
v9	6	#5	10'-3"	——
w	16	#6	30'-0"	——
Class X Concrete			Cu. Yd.	152.4
Reinforcement Bars			Pound	25,560
Concrete Piles			Lin. Ft.	1400

* Clear height

DESIGNED	T. S.
CHECKED	
DRAWN	Joe Sutherland
CHECKED	

EXAMINED August 21, 1975
ENGINEER OF BRIDGE AND TRAFFIC STRUCTURES
PASSED
ENGINEER OF DESIGN
APPROVED
DIRECTOR OF HIGHWAYS

PIER 1
SOUTH BOUND LANE
F.A. RT. 407 SEC. 1-GVB
ADAMS COUNTY
STATION 161+44.62

FILE NAME: L:\Furhmann\Eng\240070893-00_I-172\708900\CADD Data\Bridge\CADD Sheets\Existing Plans\D6722250 - 013 - Existing Plans - XIII.dgn

CMT
License No. 184-000613 © Copyright CMT, Inc.

USER NAME = vtan	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
	CHECKED -	REVISED -	
PLOT DATE = 6/1/2026	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS - XIII
STRUCTURE NO. 001-0050 (SB) & 001-0051 (NB)
SCALE: | SHEET 13 OF 16 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-6VBR	ADAMS	113	88
		CONTRACT NO. 72250		
	ILLINOIS	FED. AID PROJECT		

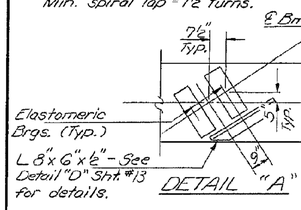
NOTES:
Space Reinforcement in cap to miss anchor bolts.
All edges shall have standard ¾" chamfer except as noted.
Pour steps monolithically with cap.
Min. spiral lap = 1½ turns.

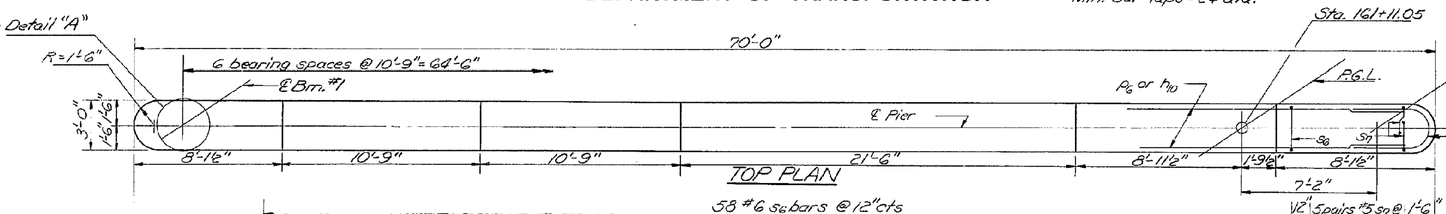
Note: Bars indicated thus 20x3 #5 etc. indicates 20 lines of bars with 3 lengths per line.
Min. bar laps = 24 dia.

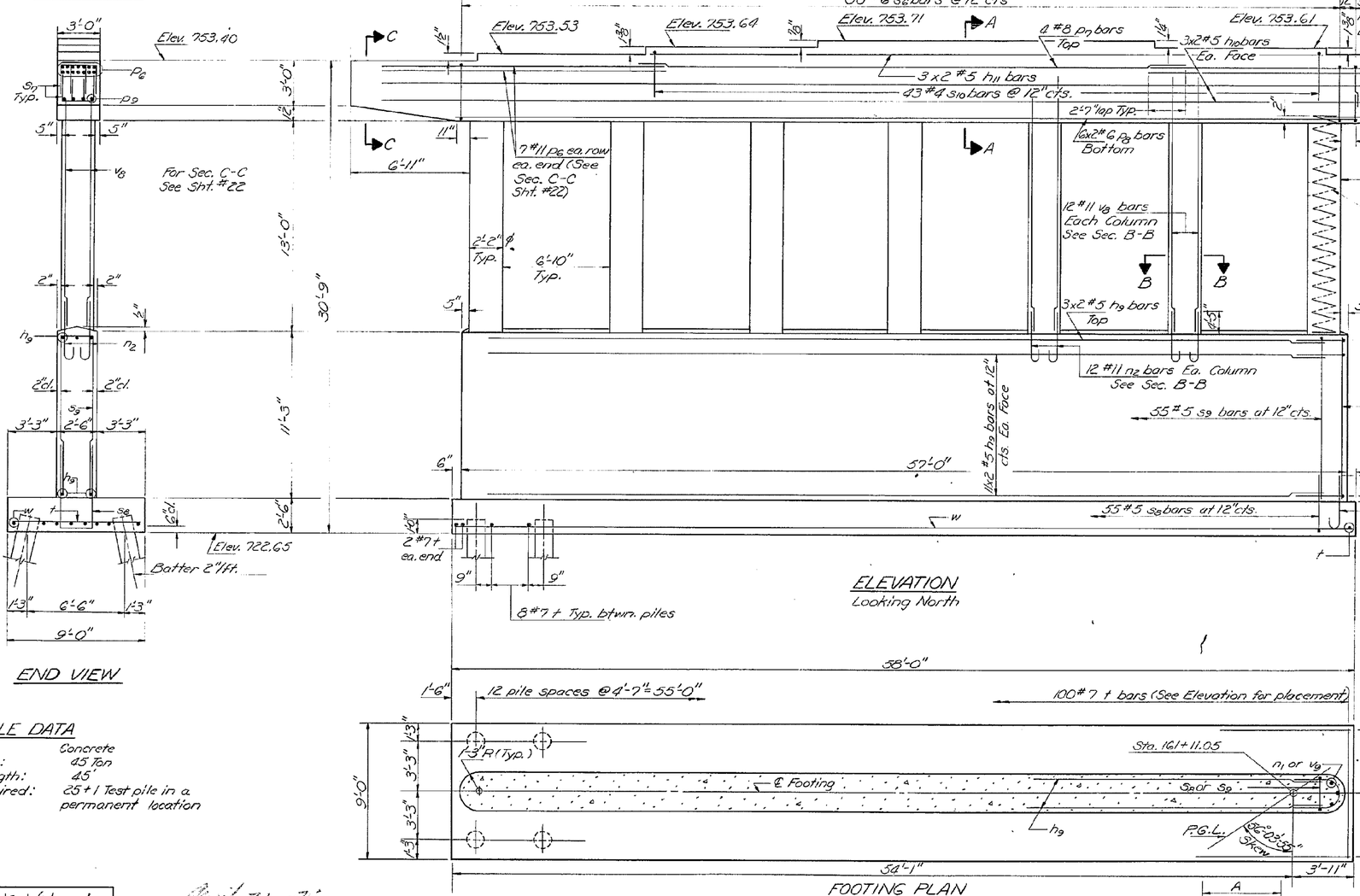
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

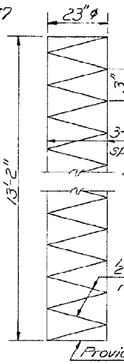
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 167	I-6WB	ADAMS	32	27
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT:		

SHEET NO. 20
23 SHEETS

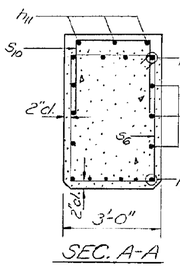




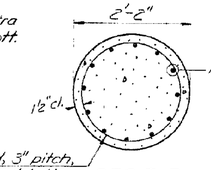




SPIRAL DETAIL, sp1



SEC. A-A



23" ø spiral, ½" ø rod, 3" pitch, 1½ extra turns top & bottom. Spiral must extend 2" into the cap. See Spiral Detail.

SEC. B-B

#4 spiral, sp1 Each Column

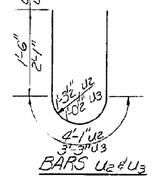
PILE DATA

Type:	Concrete
Capacity:	45 Ton
Est. Length:	45'
No. Required:	25+1 Test pile in a permanent location

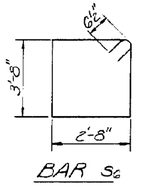
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h9	50	#5	27'-9"	—
h10	12	#5	34'-0"	—
h11	6	#5	22'-0"	—
n1	6	#5	4'-10"	⊃
n2	84	#11	8'-3"	⊃
P6	28	#11	18'-9"	—
P7	4	#8	34'-9"	—
P8	12	#6	30'-0"	—
P9	8	#5	8'-0"	—
S6	58	#6	13'-9"	⊓
S7	40	#5	7'-4"	⊓
S8	55	#5	10'-6"	⊓
S9	55	#5	22'-6"	⊓
S10	43	#4	5'-6"	⊓
sp1	7	#4	*13'-2"	WWW
t	100	#7	8'-3"	—
u2	8	#5	8'-3"	⊃
u3	24	#5	6'-3"	⊃
V8	84	#11	16'-6"	—
V9	6	#5	10'-3"	—
w	16	#6	30'-0"	—
Class X Concrete			Cu. Yd.	150.4
Reinforcement Bars			Pound	24,990
Concrete Piles			Lin. Ft.	1125
Test Piles (Concrete)			Each	1

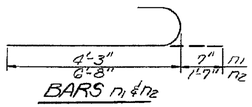
* Clear height



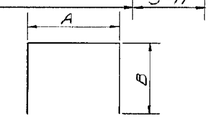
BARS u_2 & u_3



BAR S_6



BARS n_1 & n_2



BARS S_7, S_8, S_9 & S_{10}

A & B DIMENSIONS

Bar	A	B
S7	1'-10"	2'-9"
S8	2'-2"	4'-2"
S9	2'-2"	10'-2"
S10	2'-8"	1'-5"

DESIGNED	Joseph Edwards	
CHECKED	Calvin Strang	
DRAWN	Joe Sutherland	
CHECKED	Calvin Strang	

EXAMINED: April 21 19 26
ENGINEER OF BRIDGE AND TRAFFIC STRUCTURES
PASSED: ENGINEER OF DESIGN
APPROVED: DIRECTOR OF HIGHWAYS

PIER 2
SOUTH BOUND LANE
F.A. RT. 407 SEC. 1-6VB
ADAMS COUNTY
STATION 161+44.62

FILE NAME: L:\FuhmannEng\24007089-00_I-172\708900\CADD Data\Bridge\CADD Sheets\Existing Plans\D672250 - 014 - Existing Plans - XIV.dgn

CMT
License No. 184-000613
© Copyright CMT, Inc.

USER NAME = vtan	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
	CHECKED -	REVISED -	
PLOT DATE = 6/1/2026	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS - XIV
STRUCTURE NO. 001-0050 (SB) & 001-0051 (NB)
SCALE: | SHEET 14 OF 16 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-6VBR	ADAMS	113	89
		CONTRACT NO. 72250		
	ILLINOIS	FED. AID PROJECT		

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 407	1-6VB	ADAMS	23	21
FED. ROAD DIST. NO. 7	ILLINOIS	FED. A.D. PROJECT.		

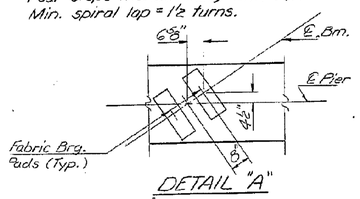
SHEET NO. 21
23 SHEETS

NOTES:

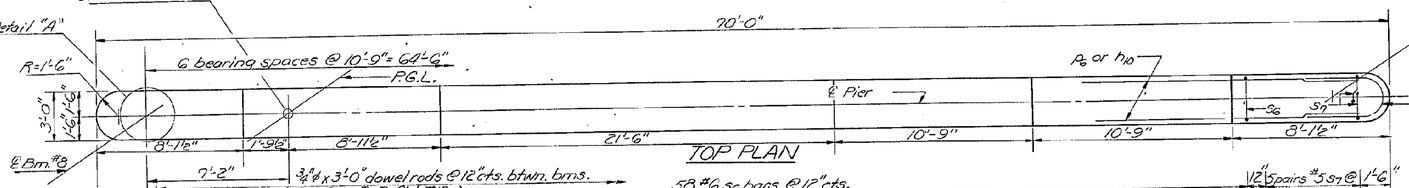
All edges shall have standard ¾" chamfer except as noted.
Pour steps monolithically with cap.
Min. spiral lap = 1½ turns.

Note: Bars indicated thus 20x3-#5 etc. indicates 20 lines of bars with 3 lengths per line.
Min. bar laps = 24 dia.

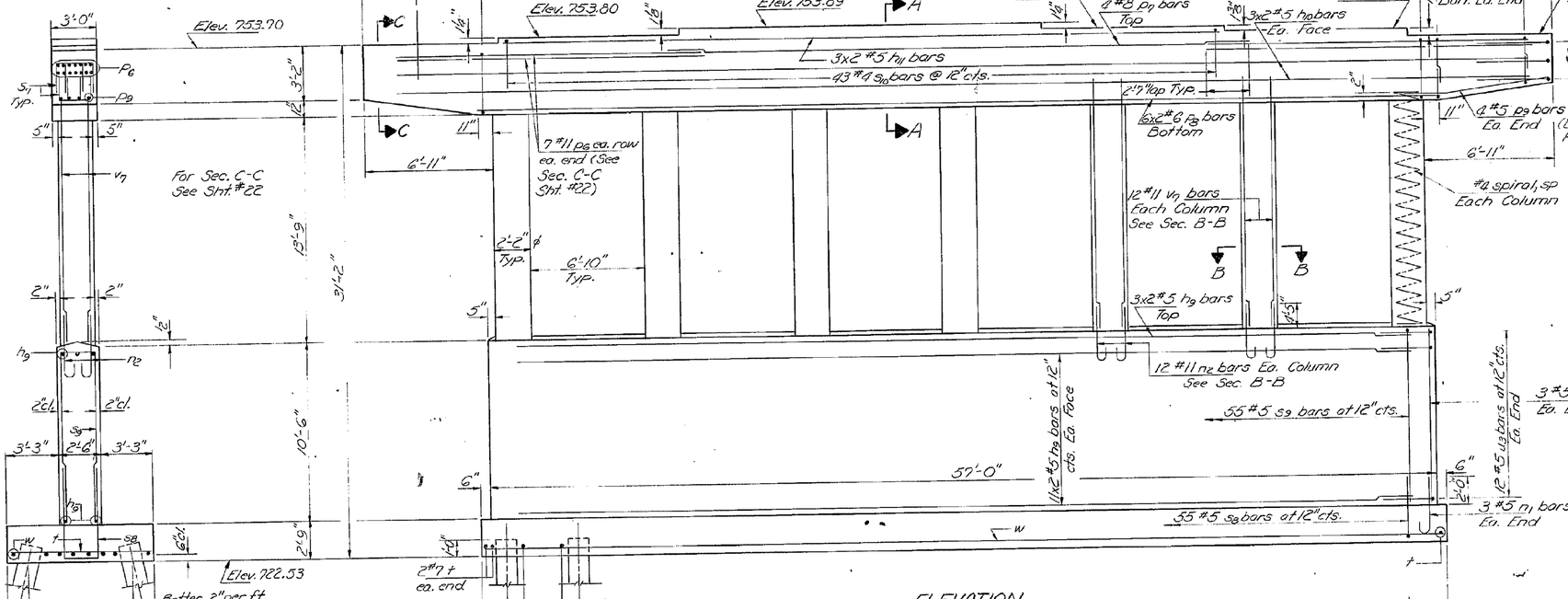
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



DETAIL "A"

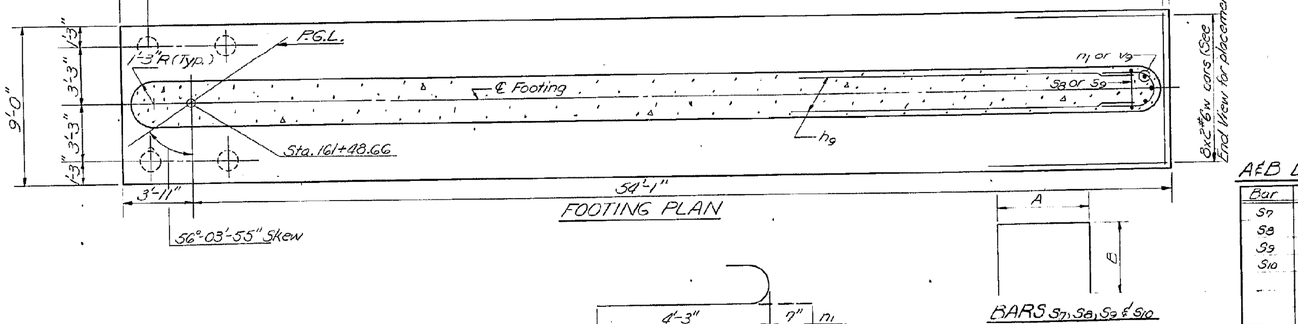


TOP PLAN

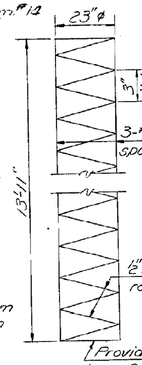


END VIEW

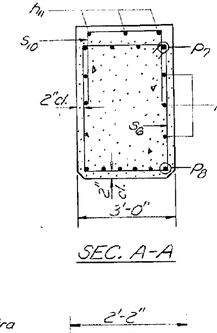
ELEVATION
looking North



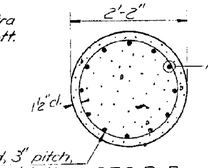
FOOTING PLAN



SPIRAL DETAIL, SP

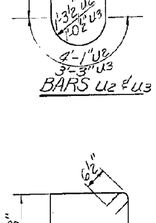


SEC. A-A

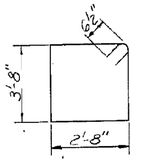


23" ø spiral, ½" ø rod, 3" pitch, 1½ extra turns top & bottom. Spiral must extend 6" into the cap. See Spiral Detail.

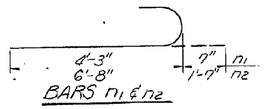
SEC. B-B



BARS u2 & u3



BAR s6



BARS n1 & n2

BARS s7, s8, s9 & s10

A & B DIMENSIONS

Bar	A	B
s7	1'-10"	2'-9"
s8	2'-2"	4'-2"
s9	2'-2"	10'-2"
s10	2'-8"	1'-5"

PILE DATA

Type: Concrete
Capacity: 45 Ton
Est. Length: 35'
No. Required: 28

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h9	30	#5	27'-3"	
h10	12	#5	34'-0"	
h11	6	#5	22'-0"	
n1	6	#5	4'-10"	
n2	84	#11	8'-3"	U
P6	28	#11	18'-9"	
P7	4	#8	34'-9"	
P8	12	#6	30'-0"	
P9	8	#5	8'-0"	
s6	58	#6	13'-9"	
s7	40	#5	7'-4"	
s8	55	#5	10'-6"	
s9	55	#5	22'-6"	
s10	43	#4	5'-6"	
s10	7	#4	*13'-11"	WWW
t	108	#7	8'-9"	
u2	8	#5	8'-3"	
u3	24	#5	6'-3"	
v7	84	#11	17'-3"	
v9	6	#5	10'-3"	
w	16	#6	30'-0"	
Class X Concrete		Cu. Yd.	152.2	
Reinforcement Bars		Pound	25,560	
Concrete Piles		Lin. Ft.	980	

*Clear height

DESIGNED	[illegible]
CHECKED	[illegible]
DRAWN	Joe Sutherland
CHECKED	[illegible]

EXAMINED [illegible] 19[illegible]
ENGINEER OF BRIDGE AND TRAFFIC STRUCTURES
PASSED
ENGINEER OF DESIGN
APPROVED
DIRECTOR OF HIGHWAYS

PIER 1
NORTH BOUND LANE
F.A. RT. 407 SEC. 1-6VB
ADAMS COUNTY
STATION 161+44.62

FILE NAME: c:\Furhmann\Eng\240070089-00 I-172\7089000\CADD Data\Bridge\CADD Sheets\Existing Plans\D6722250 - 015 - Existing Plans - XV.dgn

CMT
License No. 184-000613 © Copyright CMT, Inc.

USER NAME = vtan	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
	CHECKED -	REVISED -	
PLOT DATE = 6/1/2026	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS - XV
STRUCTURE NO. 001-0050 (SB) & 001-0051 (NB)
SCALE: SHEET 15 OF 16 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-6VBR	ADAMS	113	90
		CONTRACT NO. 72250		
	ILLINOIS	FED. AID PROJECT		

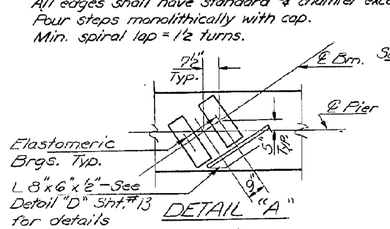
NOTES:
Space Reinforcement in cap to miss anchor bolts.
All edges shall have standard ¾" chamfer except as noted.
Four steps monolithically with cap.
Min. spiral lap = 1½ turns.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

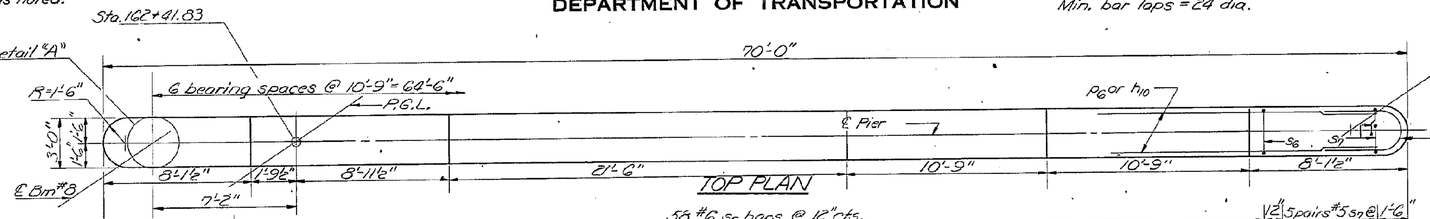
Note: Bars indicated thus 20x3 #5 etc. indicates 20 lines of bars with 3 lengths per line.
Min. bar laps = 24 dia.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
E. B. I. F.A. 407	1-6VB	ADAMS	52	29
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT:		

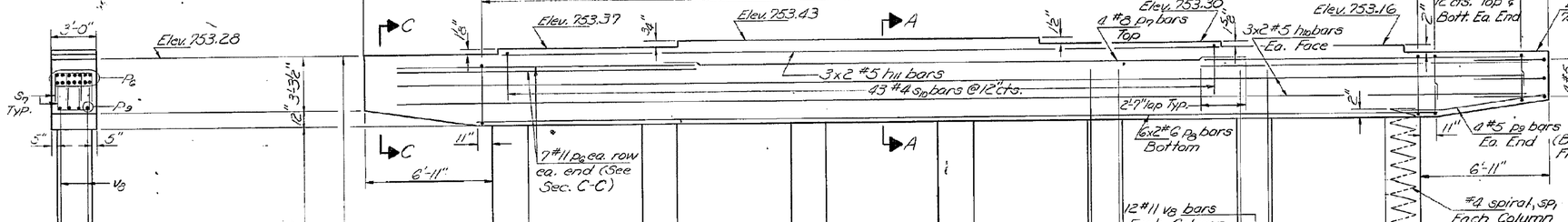
SHEET NO. 22
23 SHEETS



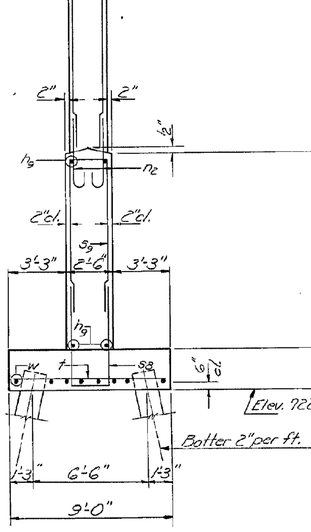
DETAIL "A"



TOP PLAN



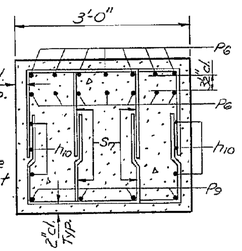
ELEVATION
Looking North



END VIEW

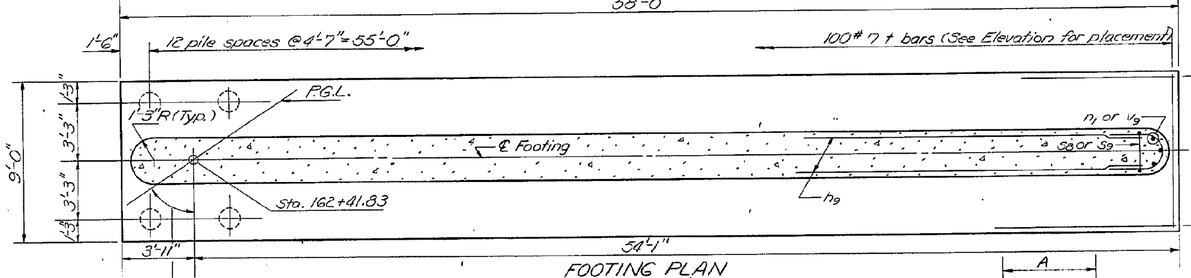
Elev. 722.24
Batter 2" per ft.

2 #7 t ea. end
9"
9"
3 #7 t Typ. btwn. piles

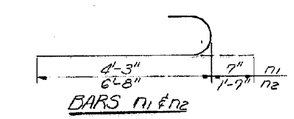


SEC. C-C

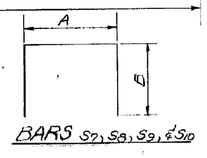
PILE DATA
Type: Concrete
Capacity: 45 Ton
Est. Length: 56'
No. Required: 25 + 1 Test pile in a permanent location



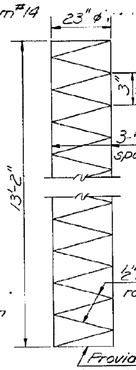
FOOTING PLAN



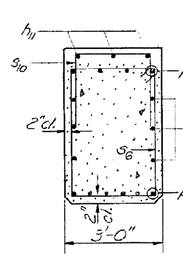
BARS n1 & n2



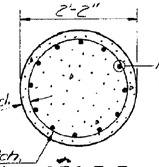
BARS S7, S8, S9, & S10



SPIRAL DETAIL, SP1

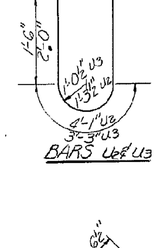


SEC A-A

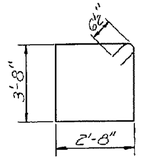


SEC. B-B

2.3"ø spiral, ½"ø rod, 3" pitch, 1½ extra turns top & bottom. Spiral must extend 2" into the cap. See Spiral Detail.



BARS u2 & u3



BAR S6

A & B DIMENSIONS

Bar	A	B
S7	1'-10"	2'-9"
S8	2'-2"	4'-2"
S9	2'-2"	10'-2"
S10	2'-8"	1'-5"

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h9	30	#5	27'-9"	
h10	12	#5	34'-0"	
h11	6	#5	22'-0"	
n1	6	#5	4'-10"	
n2	84	#11	8'-3"	
P6	28	#11	18'-9"	
P7	4	#8	34'-9"	
P8	12	#6	30'-0"	
P9	8	#5	8'-0"	
S6	58	#6	13'-9"	
S7	40	#5	7'-4"	
S8	55	#5	10'-6"	
S9	55	#5	22'-6"	
S10	43	#4	5'-6"	
SP1	7	#4	*13'-2"	
t	100	#7	8'-9"	
u2	8	#5	8'-3"	
u3	24	#5	6'-3"	
V8	84	#11	16'-6"	
V9	6	#5	10'-3"	
w	16	#6	30'-0"	
Class X Concrete		Cu. Yd.	151.2	
Reinforcement Bars		Pound	24,990	
Concrete Piles		Lin. Ft.	1400	
Test Piles (Concrete)		Each	1	

*Clear Height

DESIGNED	[illegible]
CHECKED	Calvin L. Terry
DRAWN	Joe Sutherland
CHECKED	Calvin L. Terry

EXAMINED Carl E. Nieweg 6/1/75
ENGINEER OF BRIDGE AND TRAFFIC STRUCTURES
PASSED
ENGINEER OF DESIGN
APPROVED
DIRECTOR OF HIGHWAYS

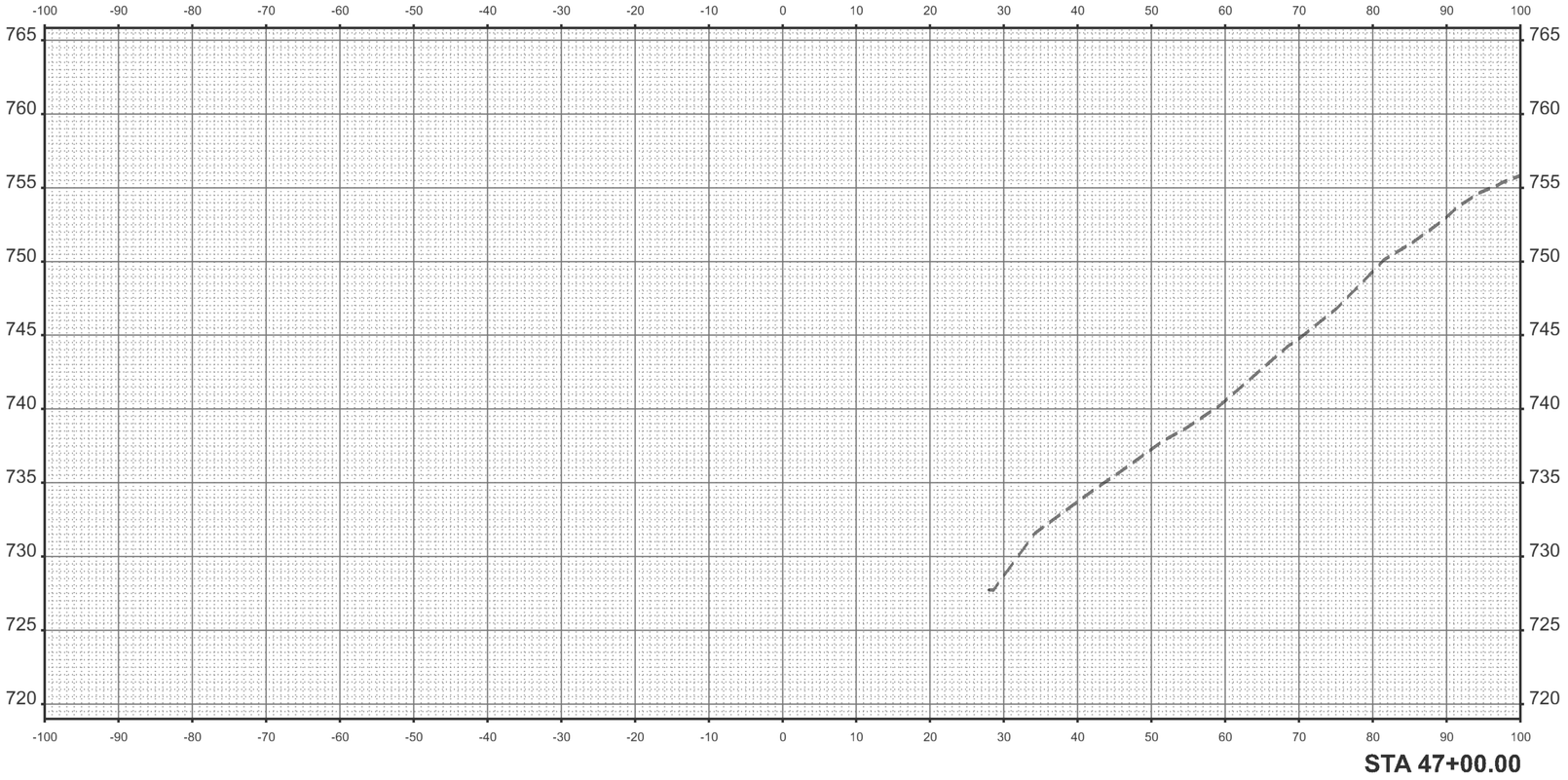
PIER 2
NORTH BOUND LANE
F.A. RT. 407 SEC. 1-6VB
ADAMS COUNTY
STATION 161+44.62

FILE NAME: L:\Funhmann\Eng\240070893-00_I-172\708900\CADD Data\Bridge\CADD Sheets\Existing Plans\D6722250 - 016 - Existing Plans - XVI.dgn

CMT
License No. 184-000613
© Copyright CMT, Inc.

USER NAME = vtan	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING PLANS - XVI STRUCTURE NO. 001-0050 (SB) & 001-0051 (NB)	
	DRAWN -	REVISED -			
	CHECKED -	REVISED -			
PLOT DATE = 6/1/2026	DATE -	REVISED -		SCALE:	SHEET 16 OF 16 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-6VBR	ADAMS	113	91
		CONTRACT NO. 72250		
	ILLINOIS	FED. AID PROJECT		



MODEL: BURLINGTON - 47+00.00 [Sheet]
FILE NAME: C:\Users\ggayt\Fuhrmann Engineering\Internal - Drive\Projects\FE\Jobs\ 2023\23-2100_PTB206-040_D6_V-V_Ph1-2_FEI_Prime\WO-03\CADD\CADD_Sheets\D672250-sht-xssht.dgn

FUHRMANN ENGINEERING
WWW. FUHRMANN-ENG .COM

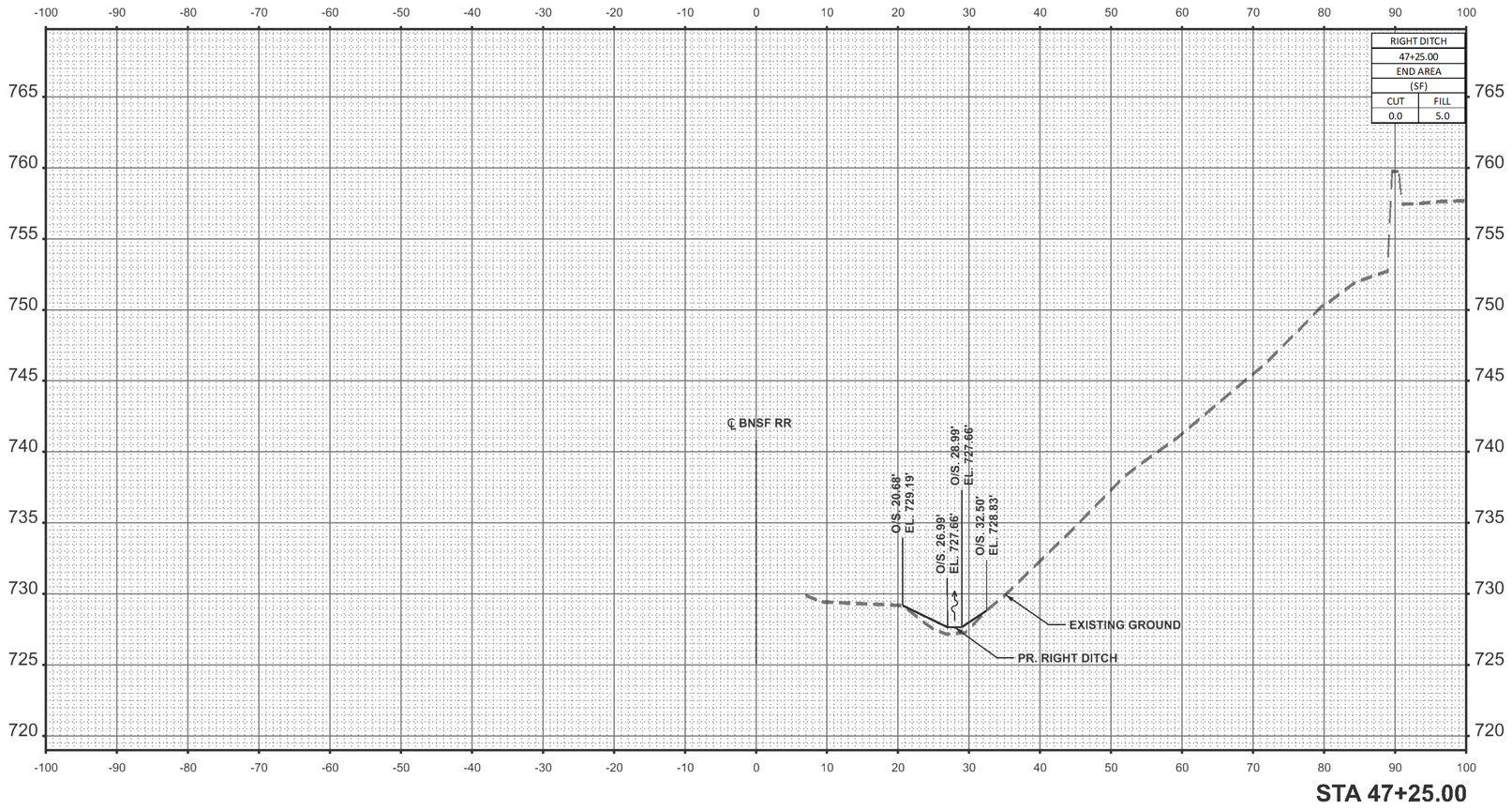
USER NAME = ggayt	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 8/13/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
BNSF RR

SCALE: 1"=10' | SHEET 1 OF 22 SHEETS | STA. 47+00.00 | TO STA. 47+00.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-6VBR	ADAMS	113	92
		CONTRACT NO. 72250		
	ILLINOIS	FED. AID PROJECT		



STA 47+25.00

MODEL: BURLINGTON - 47+25.00 [Sheet]
FILE NAME: C:\Users\ggayt\Fuhrmann Engineering\Internal - Drive\Projects\FE\Jobs\ 2023\23-2100_PTB206-040_D6_V-V_Ph1-2_FEI_PrimeWO-03\CADD\CADD_Sheets\D6722250-sht-xssht.dgn

FUHRMANN ENGINEERING
WWW. FUHRMANN-ENG .COM

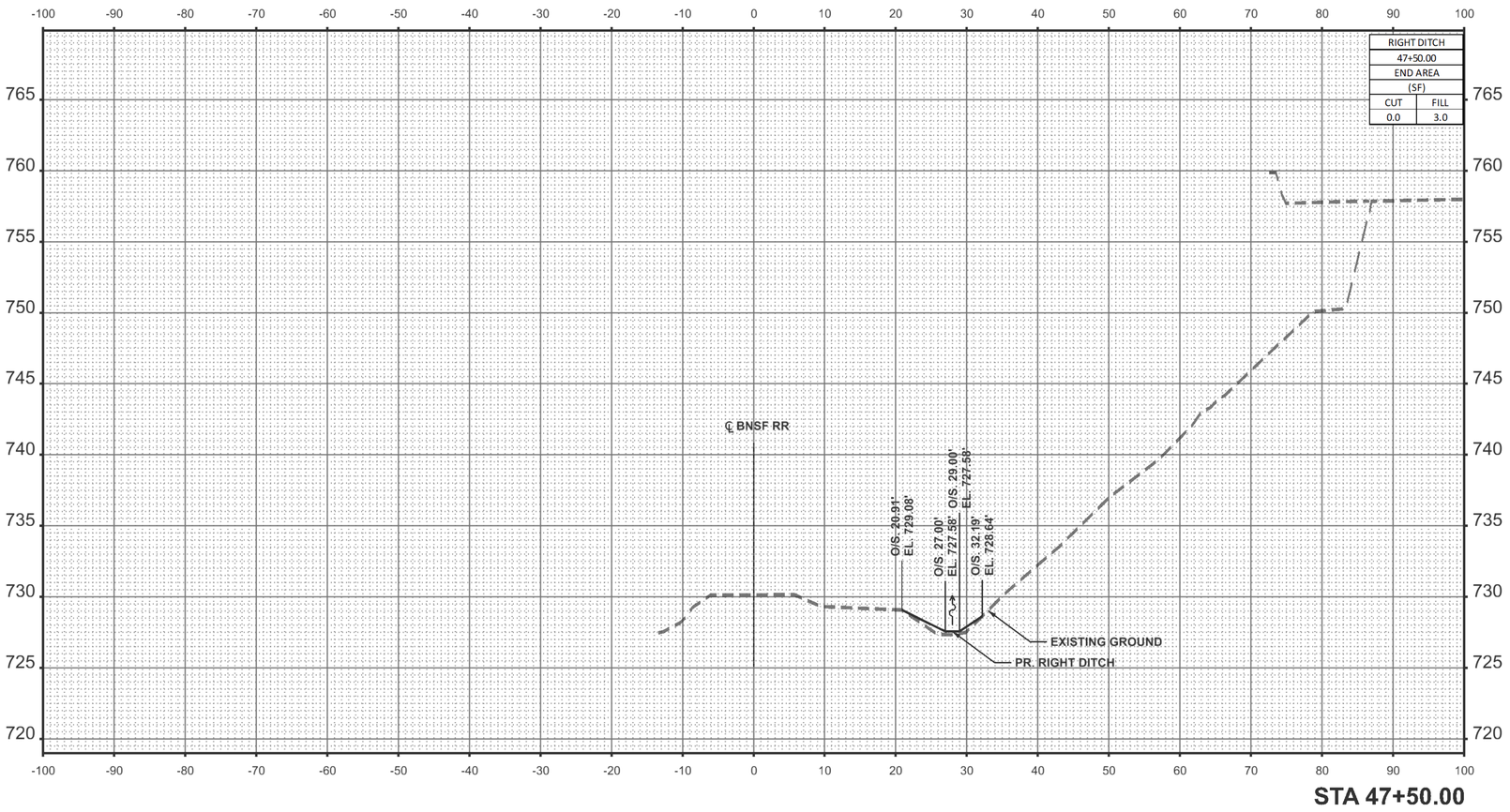
USER NAME = ggayt	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 8/13/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
BNSF RR

SCALE: 1"=10' | SHEET 2 OF 22 SHEETS | STA. 47+25.00 | TO STA. 47+25.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-6VBR	ADAMS	113	93
		CONTRACT NO. 72250		
	ILLINOIS	FED. AID PROJECT		



MODEL: BURLINGTON - 47+50.00 [Sheet]
FILE NAME: C:\Users\ggayt\Fuhrmann Engineering\Internal - Drive\Projects\FE\Jobs\ 2023\23-2100_FTB206-040_D6_V-V_Ph1-2_FEI_Prime\WO-03\CADD\CADD_Sheets\D6722250-sht-xssht.dgn

FUHRMANN ENGINEERING
WWW. FUHRMANN-ENG .COM

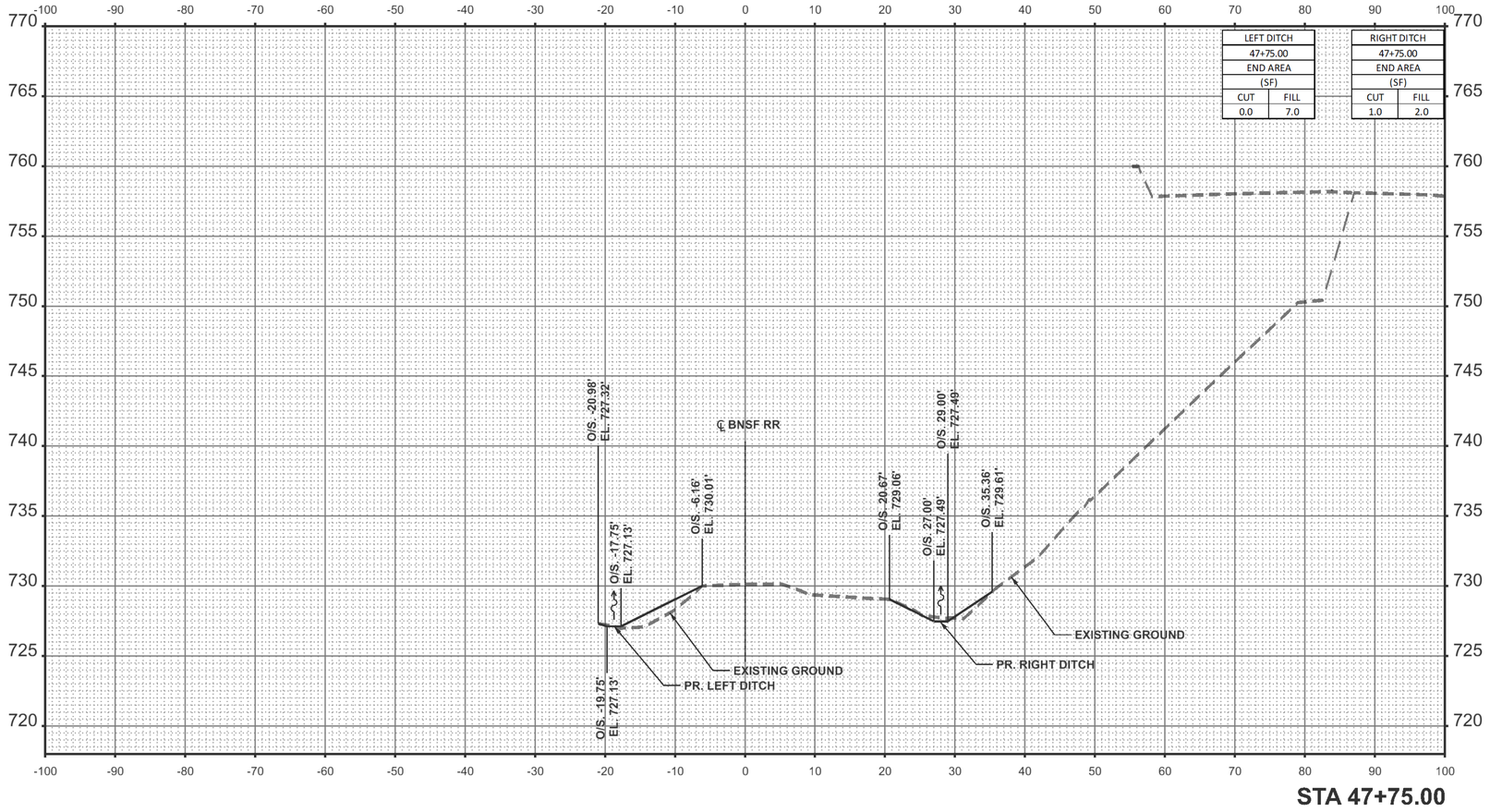
USER NAME = ggayt	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 8/13/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
BNSF RR

SCALE: 1"=10' | SHEET 3 OF 22 SHEETS | STA. 47+50.00 | TO STA. 47+50.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-6VBR	ADAMS	113	94
		CONTRACT NO. 72250		
	ILLINOIS	FED. AID PROJECT		



MODEL: BURLINGTON - 47+75.00 [Sheet]
FILE NAME: C:\Users\ggayt\Fuhrmann Engineering\Internal - Drive\Projects\FE\Jobs\ 2023\23-2100_PTB206-040_D6_V-V_Ph1-2_FEI_Prime\WO-03\CADD\CADD Sheets\D672250-sht-xssht.dgn

FUHRMANN ENGINEERING
WWW. FUHRMANN-ENG .COM

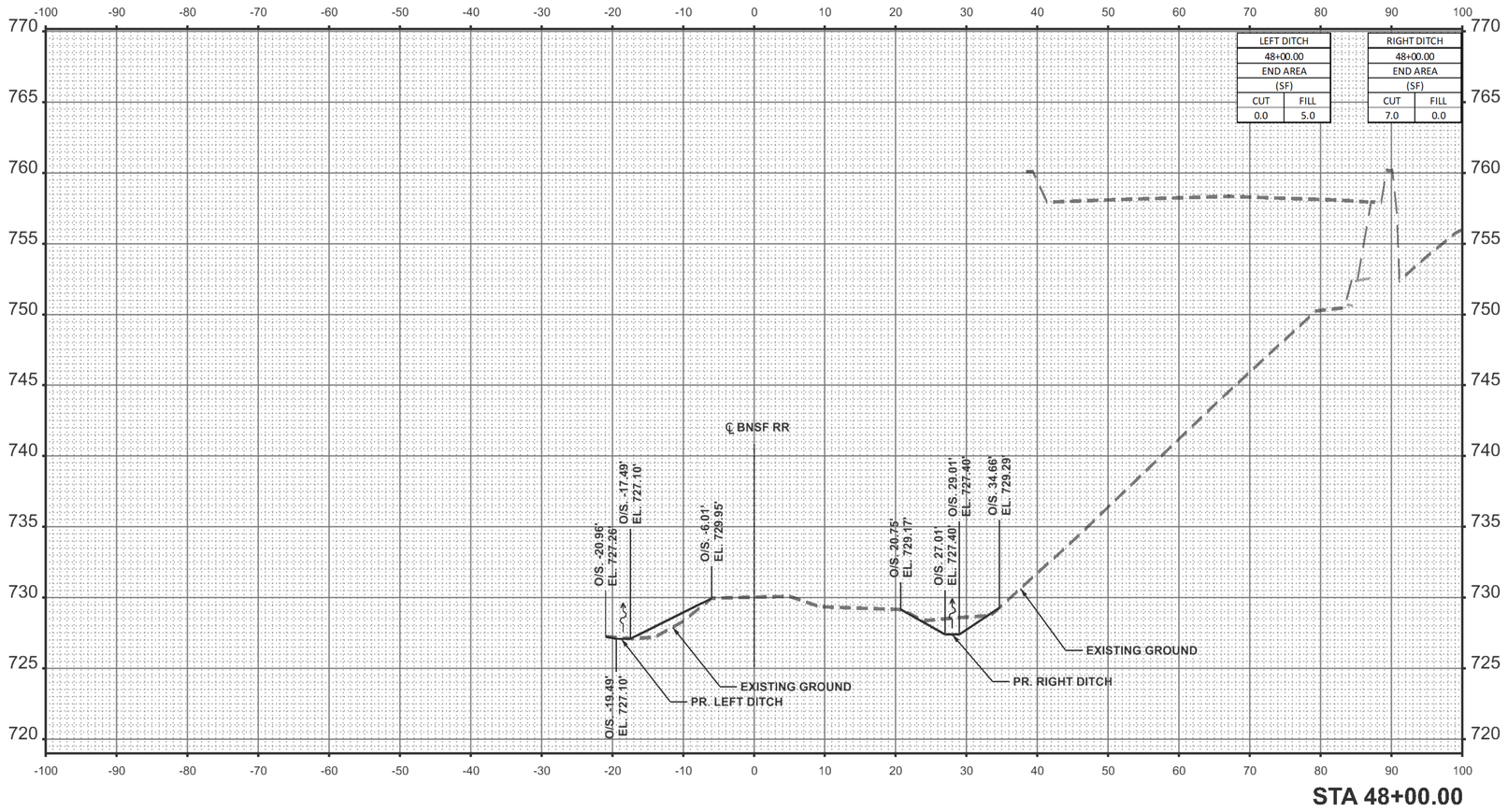
USER NAME = ggayt	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 8/13/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
BNSF RR

SCALE: 1"=10' | SHEET 4 OF 22 SHEETS | STA. 47+75.00 | TO STA. 47+75.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-6VBR	ADAMS	113	95
		CONTRACT NO. 72250		
		ILLINOIS	FED. AID PROJECT	



MODEL: BURLINGTON - 48+00.00 [Sheet]
FILE NAME: C:\Users\ggayt\Fuhrmann Engineering\Internal - Drive\Projects\FE\Jobs\ 2023\23-2100_PTB206-040_D6_V-V_Ph1-2_FEI_Prime\WO-03\CADD\CADD_Sheets\D672250-sht-xssht.dgn

FUHRMANN ENGINEERING
WWW. FUHRMANN-ENG .COM

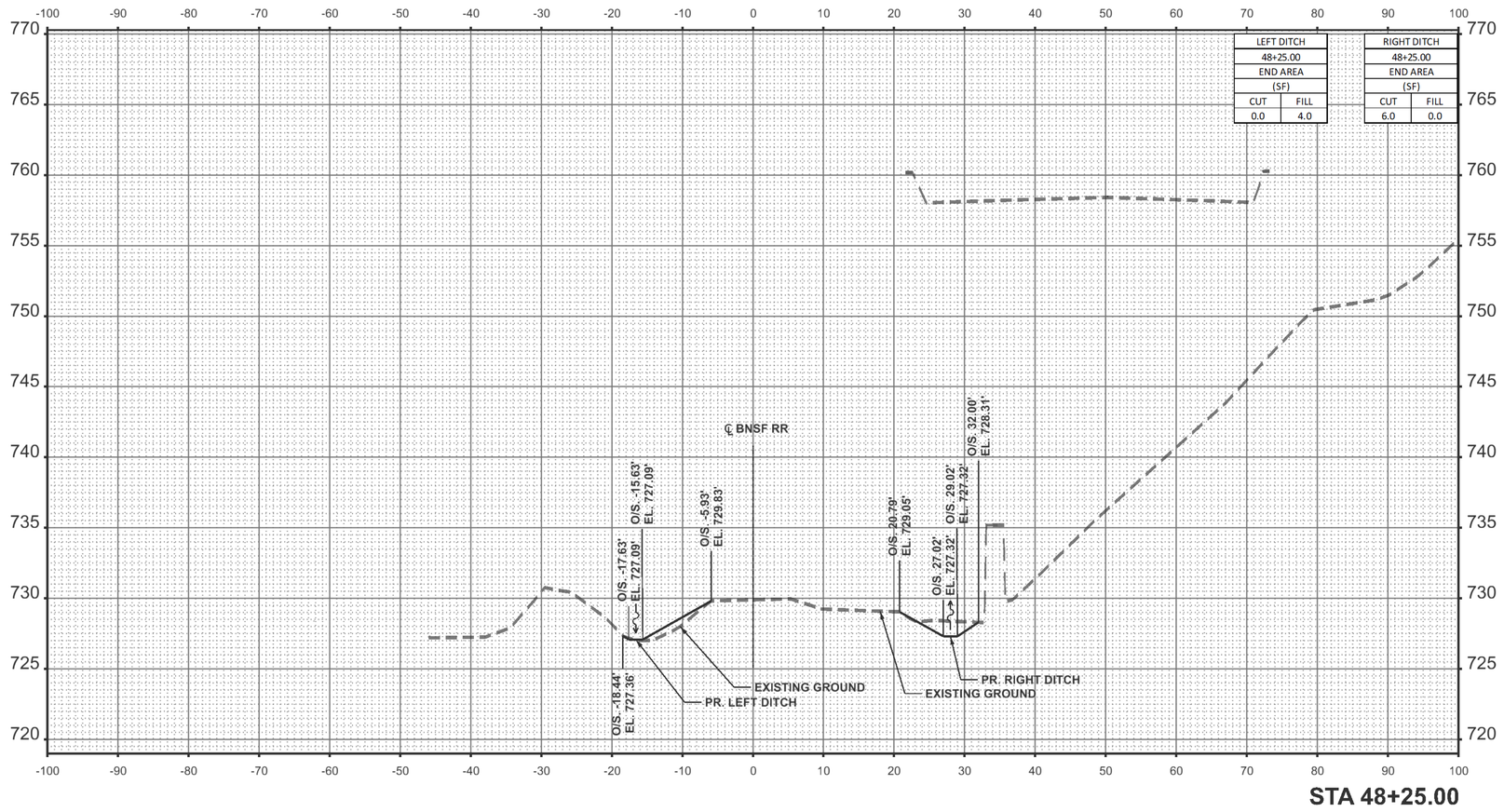
USER NAME = ggayt	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 8/13/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
BNSF RR

SCALE: 1"=10' | SHEET 5 OF 22 SHEETS | STA. 48+00.00 | TO STA. 48+00.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-6VBR	ADAMS	113	96
		CONTRACT NO. 72250		
	ILLINOIS	FED. AID PROJECT		



MODEL: BURLINGTON - 48+25.00 [Sheet]
FILE NAME: C:\Users\ggayt\Fuhrmann Engineering\Internal - Drive\Projects\FE\Jobs\ 2023\23-2100_FTB206-040_D6_V-V_Ph1-2_FEI_Prime\WO-03\CADD\CADD_Sheets\D672250-sht-xssht.dgn

FUHRMANN ENGINEERING
WWW. FUHRMANN-ENG .COM

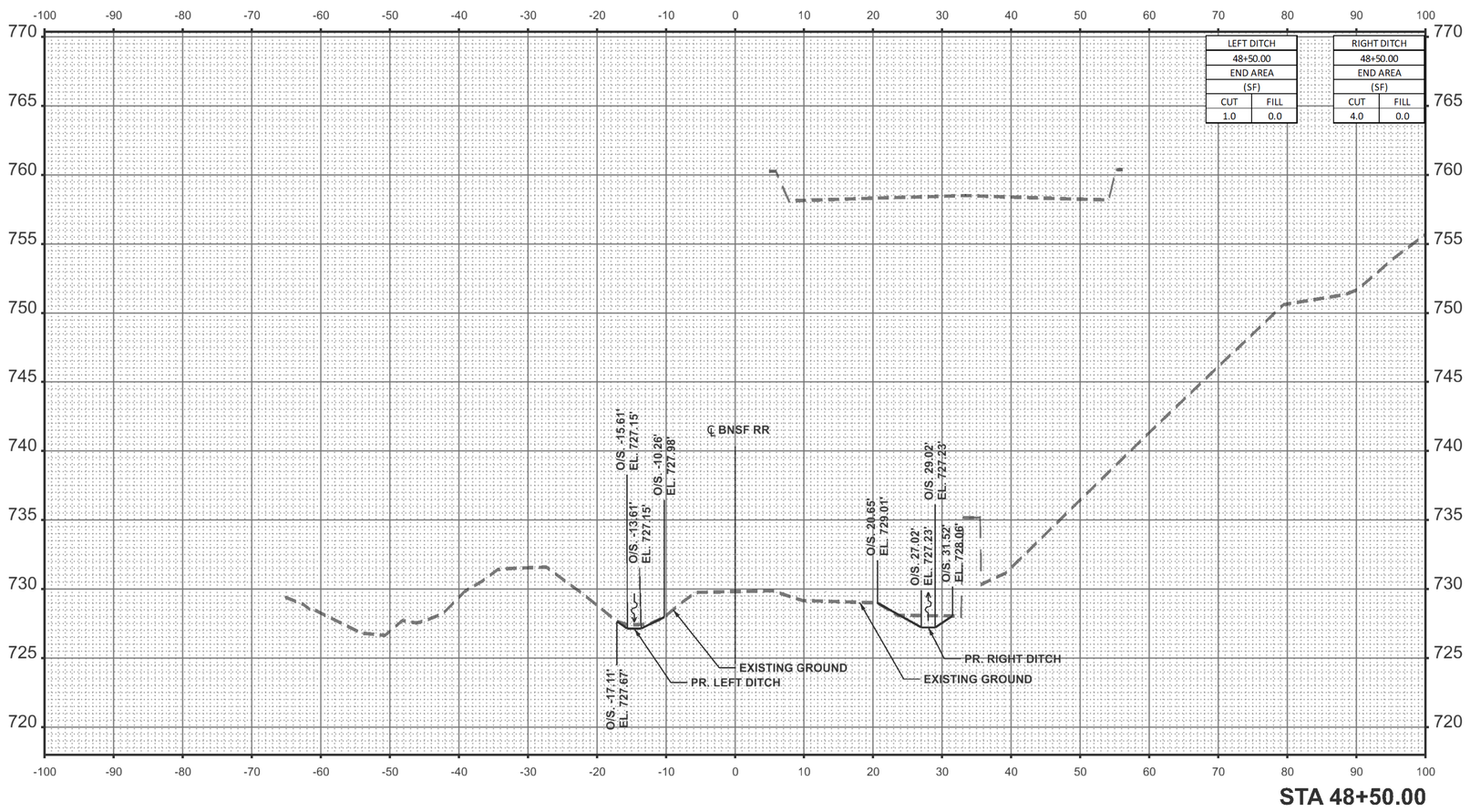
USER NAME = ggayt	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 8/13/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
BNSF RR

SCALE: 1"=10' | SHEET 6 OF 22 SHEETS | STA. 48+25.00 | TO STA. 48+25.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-6VBR	ADAMS	113	97
		CONTRACT NO. 72250		
	ILLINOIS	FED. AID PROJECT		



MODEL: BURLINGTON - 48+50.00 [Sheet]
FILE NAME: C:\Users\ggayt\Fuhrmann Engineering\Internal - Drive\Projects\FEI\Jobs\ 2023\23-2100_PTB206-040_D6_V-V_Ph1-2_FEI_Prime\WO-03\CADD\CADD Sheets\D672250-sht-xssht.dgn

FUHRMANN ENGINEERING
WWW. FUHRMANN-ENG .COM

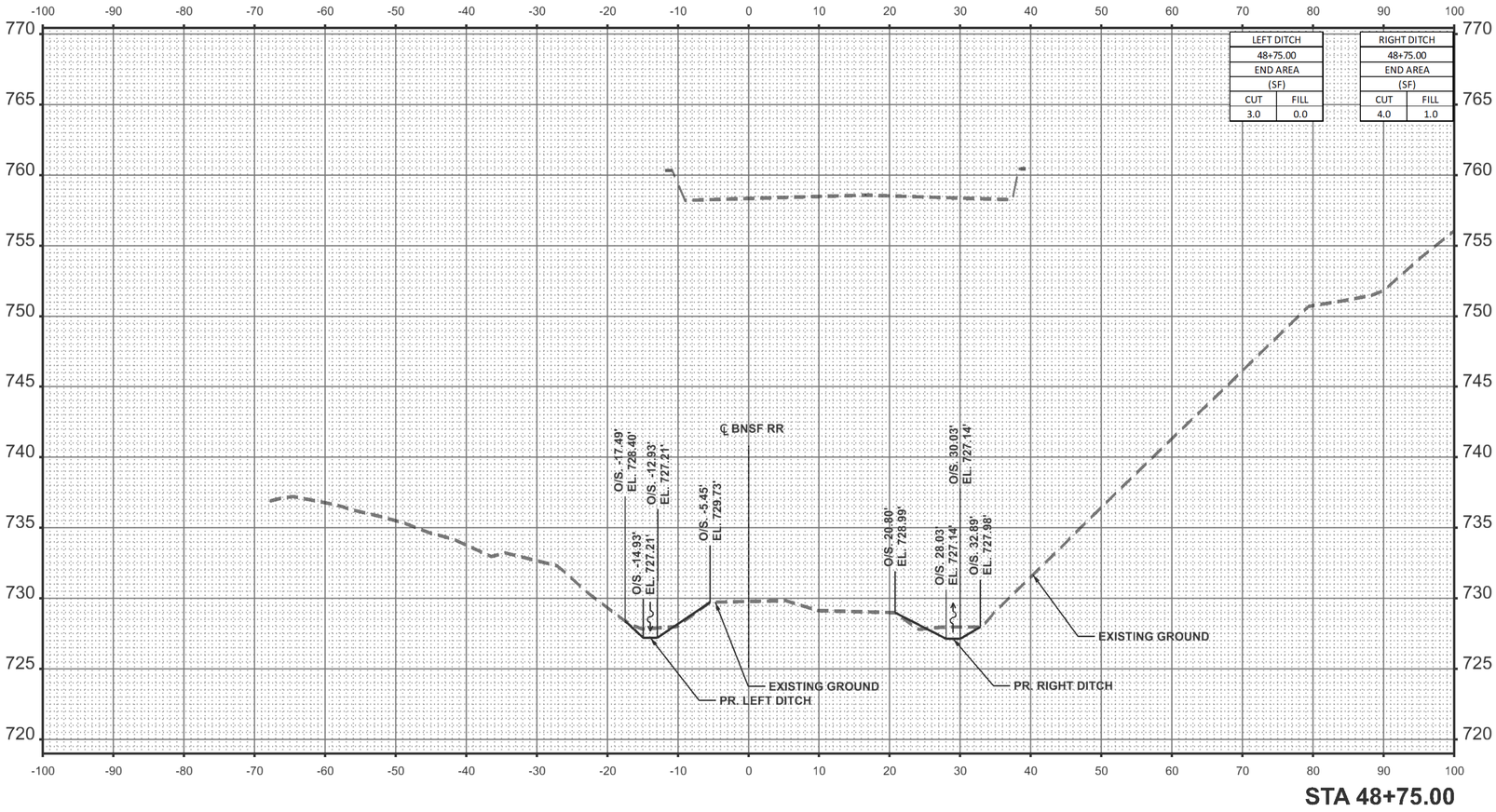
USER NAME = ggayt	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 8/13/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
BNSF RR

SCALE: 1"=10' | SHEET 7 OF 22 SHEETS | STA. 48+50.00 | TO STA. 48+50.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-6VBR	ADAMS	113	98
		CONTRACT NO. 72250		
		ILLINOIS	FED. AID PROJECT	



STA 48+75.00

MODEL: BURLINGTON - 48+75.00 [Sheet]
FILE NAME: C:\Users\ggayt\Fuhrmann Engineering\Internal - Drive\Projects\FE\Jobs\ 2023\23-2100_PTB206-040_D6_V-V_Ph1-2_FEI_PrimeWO-03\CADD\CADD_Sheets\D6722250-sht-xssht.dgn

FUHRMANN ENGINEERING
WWW. FUHRMANN-ENG .COM

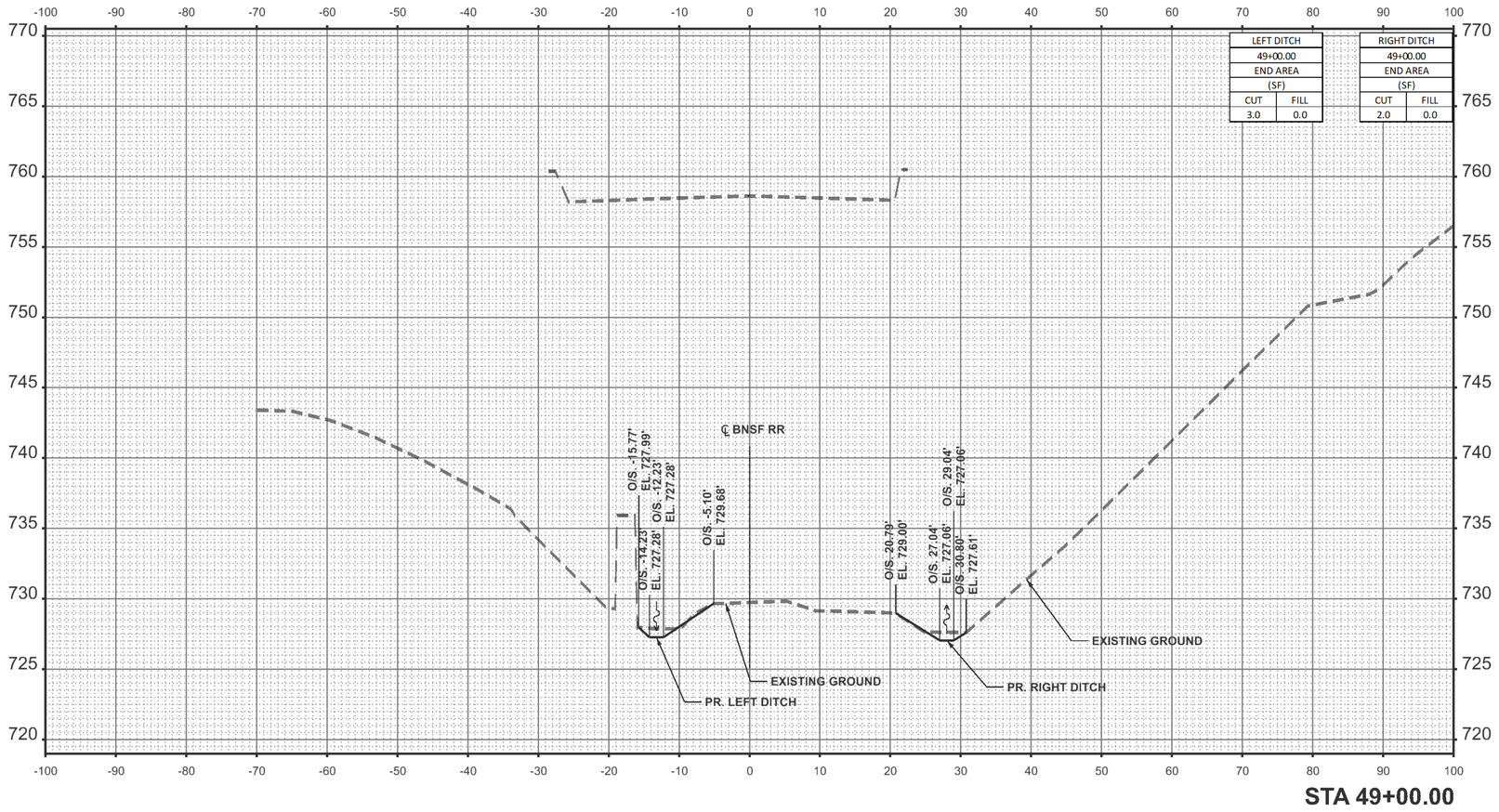
USER NAME = ggayt	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 8/13/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
BNSF RR

SCALE: 1"=10' | SHEET 8 OF 22 SHEETS | STA. 48+75.00 | TO STA. 48+75.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-6VBR	ADAMS	113	99
		CONTRACT NO. 72250		
	ILLINOIS	FED. AID PROJECT		



MODEL: BURLINGTON - 49+00.00 [Sheet]
FILE NAME: C:\Users\ggayt\Fuhrmann Engineering\Internal - Drive\Projects\FE\Jobs\ 2023\23-2100_PTB206-040_D6_V-V_Ph1-2_FEI_Prime\WO-03\CADD\CADD_Sheets\D672250-sht-xssht.dgn

FUHRMANN ENGINEERING
WWW. FUHRMANN-ENG .COM

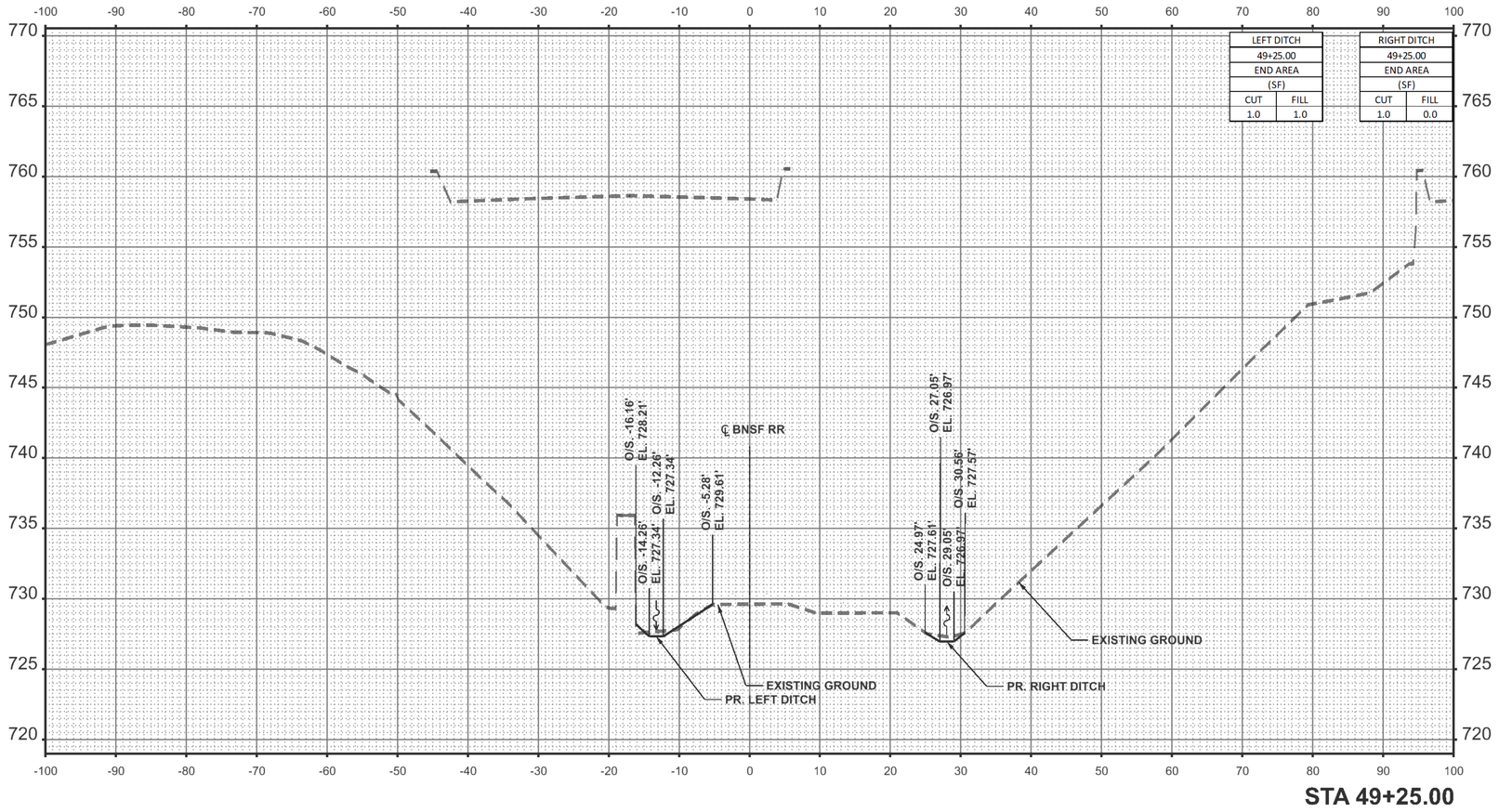
USER NAME = ggayt	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 8/13/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
BNSF RR

SCALE: 1"=10' | SHEET 9 OF 22 SHEETS | STA. 49+00.00 | TO STA. 49+00.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-6VBR	ADAMS	113	100
		CONTRACT NO. 72250		
	ILLINOIS	FED. AID PROJECT		



MODEL: BURLINGTON - 49+25.00 [Sheet]
FILE NAME: C:\Users\ggayt\Fuhrmann Engineering\Internal - Drive\Projects\FE\Jobs\ 2023\23-2100_PTB206-040_D6_V-V_Ph1-2_FEI_PrimeWO-03\CADD\CADD_Sheets\D672250-sht-xssht.dgn

FUHRMANN ENGINEERING
WWW. FUHRMANN-ENG .COM

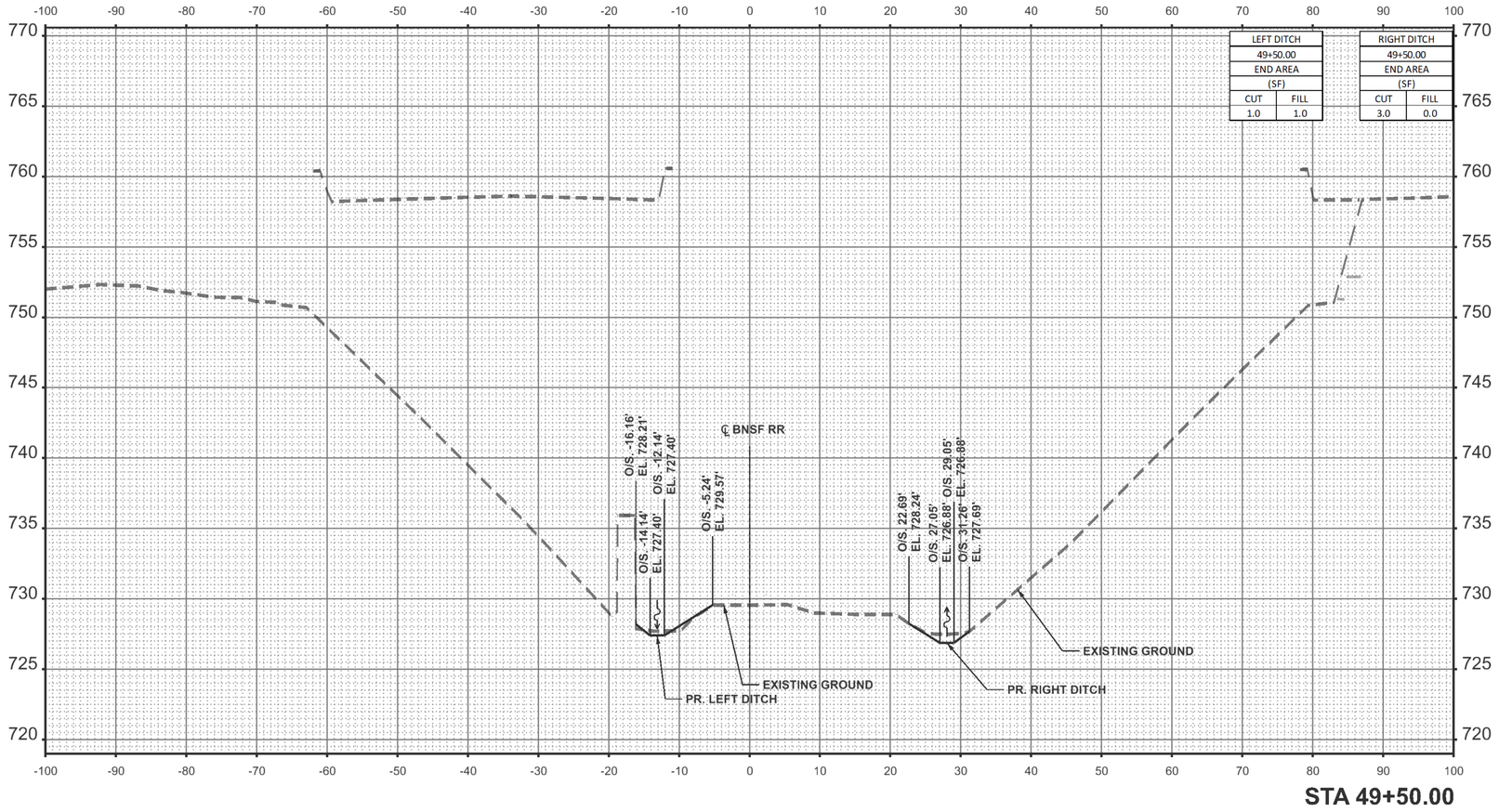
USER NAME = ggayt	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 8/13/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
BNSF RR

SCALE: 1"=10' | SHEET 10 OF 22 SHEETS | STA. 49+25.00 | TO STA. 49+25.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-6VBR	ADAMS	113	101
		CONTRACT NO. 72250		
	ILLINOIS	FED. AID PROJECT		



STA 49+50.00

MODEL: BURLINGTON - 49+50.00 [Sheet]
FILE NAME: C:\Users\ggayt\Fuhrmann Engineering\Internal - DrivePrjects\FEIJobs\ 2023\23-2100_PTB206-040_D6_V-V_Ph1-2_FEI_PrimeWO-03\CADD\CADD_Sheets\D672250-sht-xssht.dgn

FUHRMANN ENGINEERING
WWW. FUHRMANN-ENG .COM

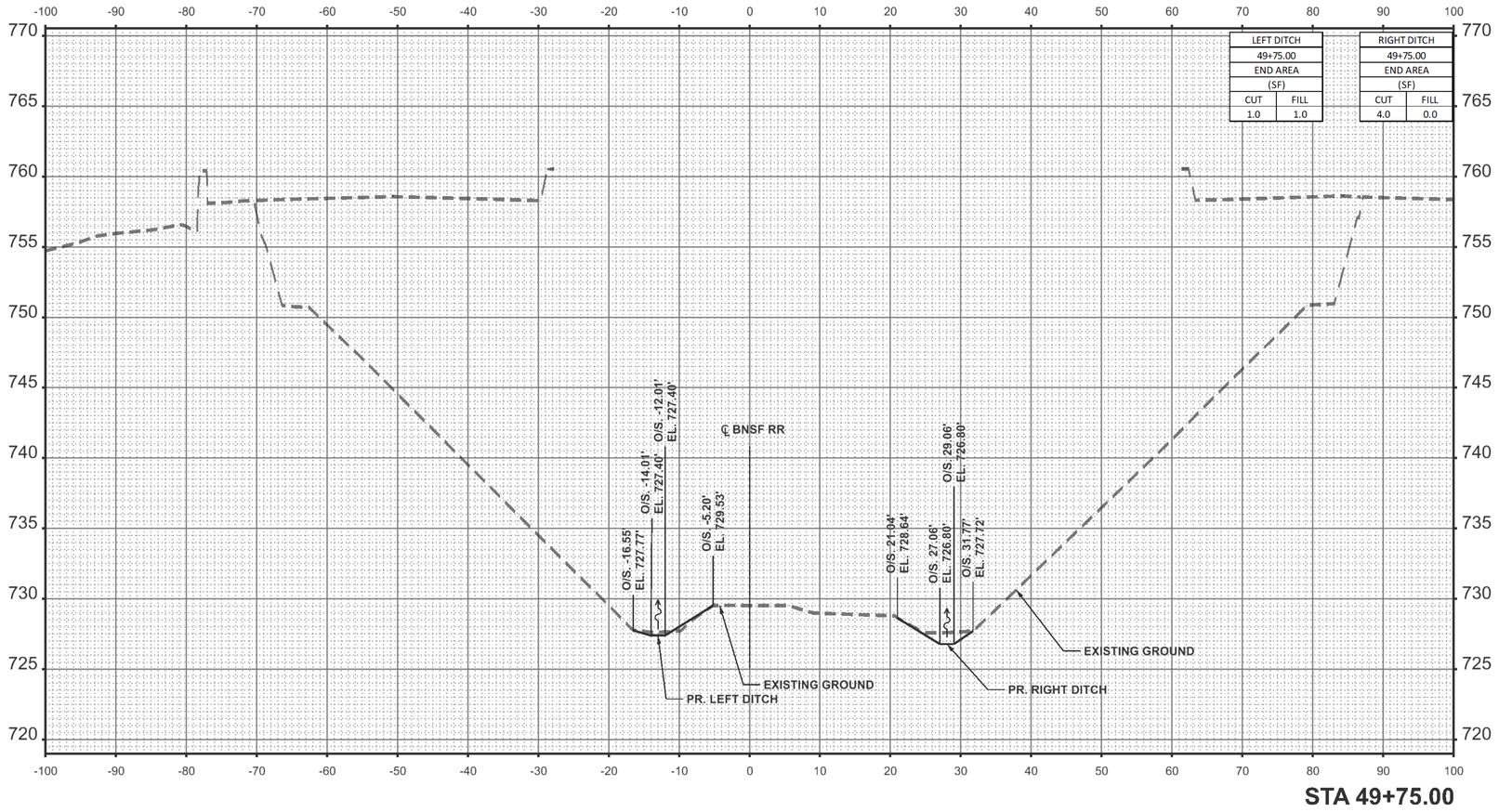
USER NAME = ggayt	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 8/13/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
BNSF RR

SCALE: 1"=10' | SHEET 11 OF 22 SHEETS | STA. 49+50.00 | TO STA. 49+50.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-6VBR	ADAMS	113	102
		CONTRACT NO. 72250		
	ILLINOIS	FED. AID PROJECT		



MODEL: BURLINGTON - 49+75.00 [Sheet]
FILE NAME: C:\Users\ggayt\Fuhrmann Engineering\Internal - DriveProjects\FEIJobs\ 2023\23-2100_PTB206-040_D6_V-V_Ph1-2_FEI_PrimeWO-03\CADD\CADD_Sheets\D672250-sht-xssht.dgn

FUHRMANN ENGINEERING
WWW. FUHRMANN-ENG .COM

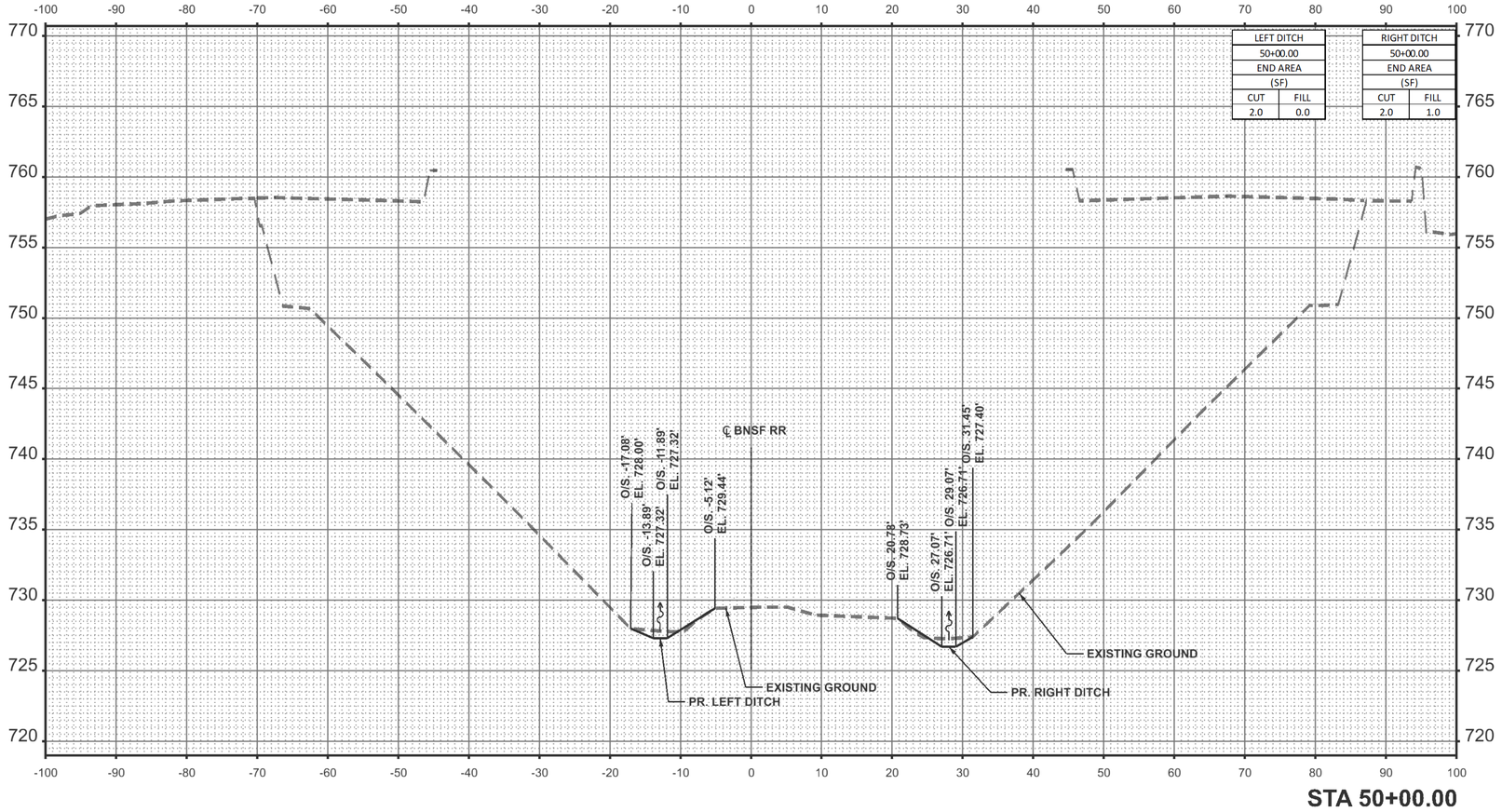
USER NAME = ggayt	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 8/13/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
BNSF RR

SCALE: 1"=10' | SHEET 12 OF 22 SHEETS | STA. 49+75.00 | TO STA. 49+75.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-6VBR	ADAMS	113	103
		CONTRACT NO. 72250		
	ILLINOIS	FED. AID PROJECT		



MODEL: BURLINGTON - 50+00.00 [Sheet]
FILE NAME: C:\Users\ggayt\Fuhrmann Engineering\Internal - Drive\Projects\FE\Jobs\ 2023\23-2100_PTB206-040_D6_V-V_Ph1-2_FEI_PrimeWO-03\CADD\CADD_Sheets\D6722250-sht-xssht.dgn

FUHRMANN ENGINEERING
WWW. FUHRMANN-ENG .COM

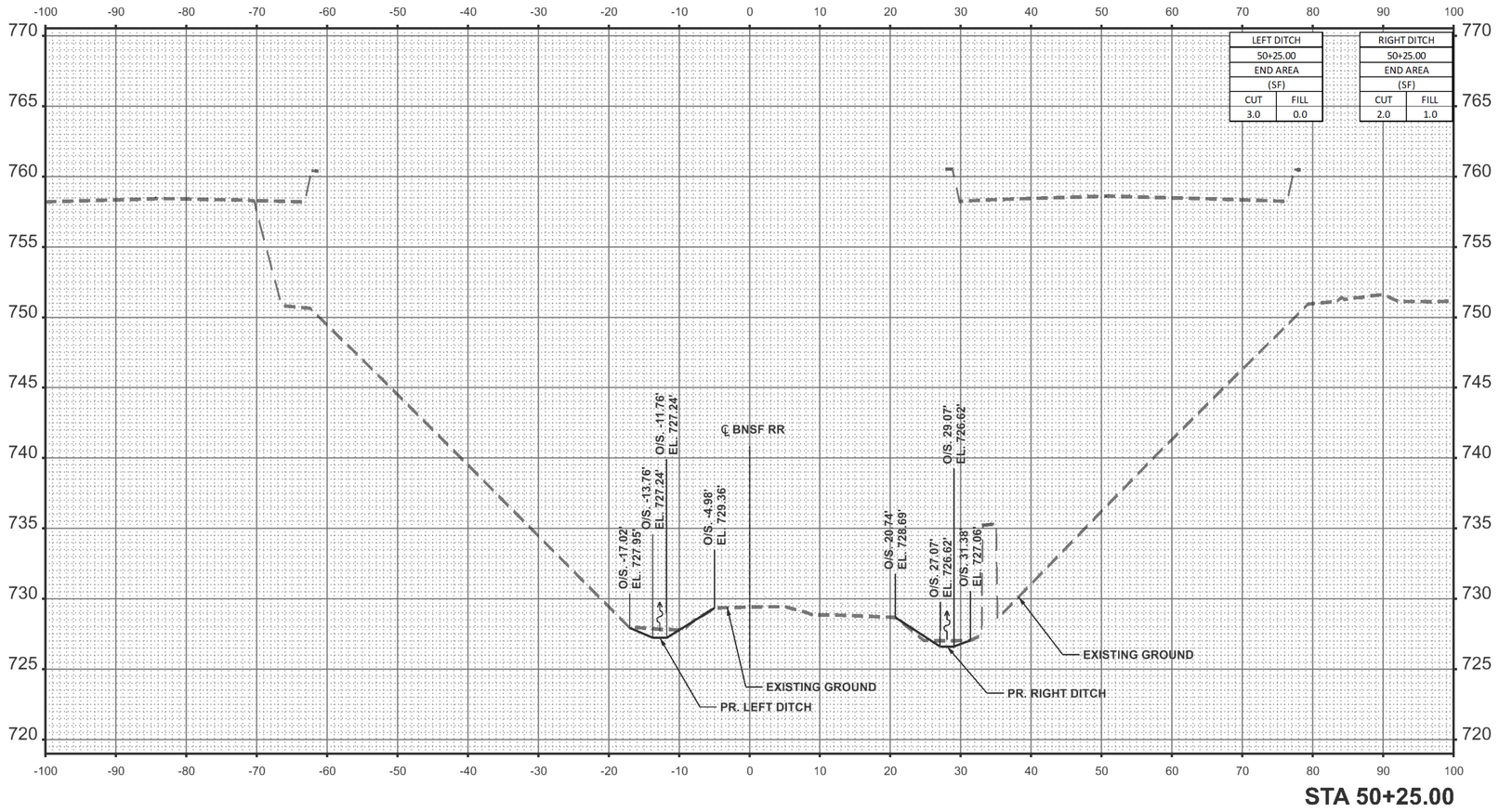
USER NAME = ggayt	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 8/13/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
BNSF RR

SCALE: 1"=10' | SHEET 13 OF 22 SHEETS | STA. 50+00.00 | TO STA. 50+00.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-6VBR	ADAMS	113	104
		CONTRACT NO. 72250		
	ILLINOIS	FED. AID PROJECT		



MODEL: BURLINGTON - 50+25.00 [Sheet]
FILE NAME: C:\Users\ggayt\Fuhrmann Engineering\Internal - Drive\Projects\FEI\Jobs\ 2023\23-2100_PTB206-040_D6_V-V_Ph1-2_FEI_Prime\WO-03\CADD\CADD_Sheets\D672250-sht-xssht.dgn

FUHRMANN ENGINEERING
WWW. FUHRMANN-ENG .COM

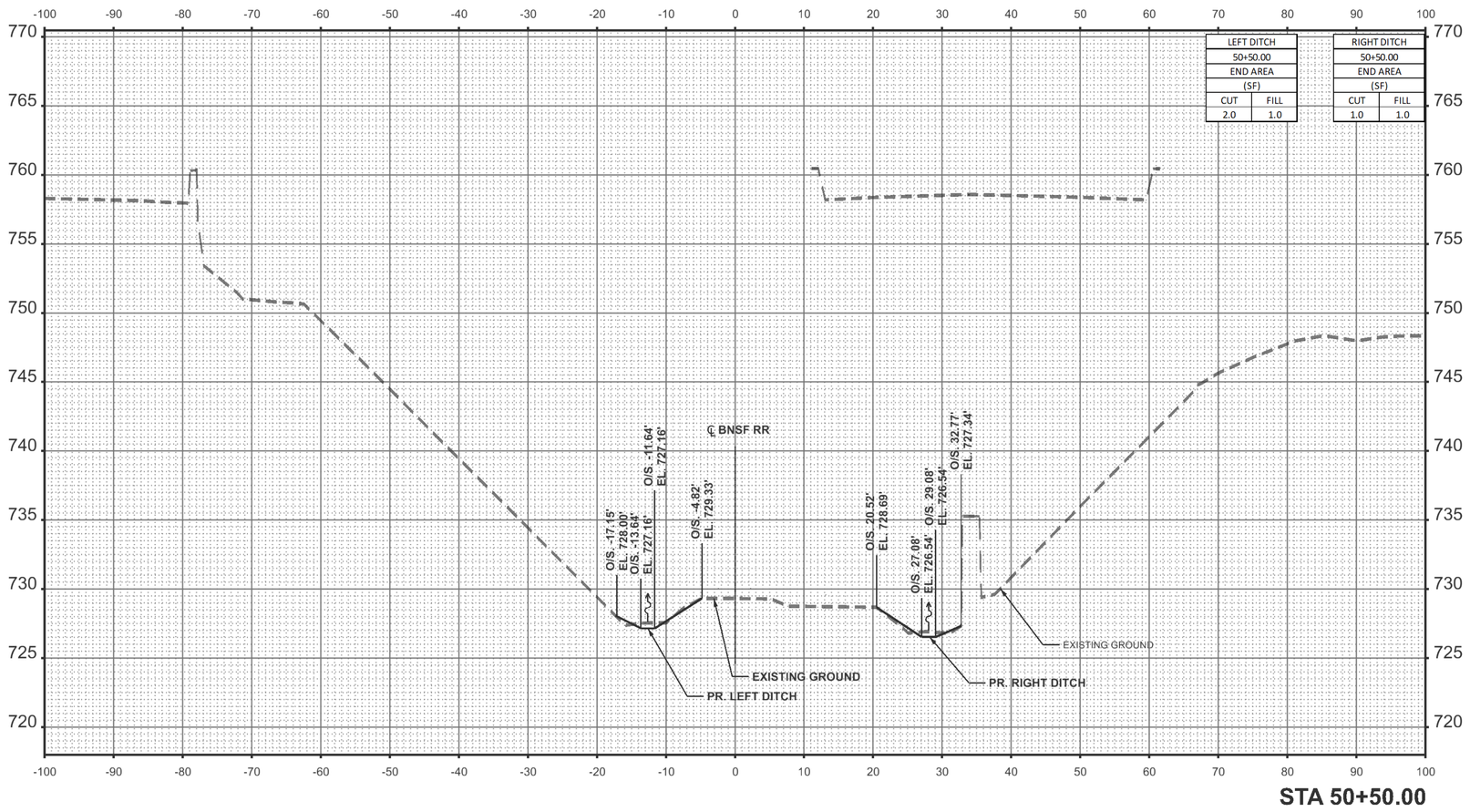
USER NAME = ggayt	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 8/13/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
BNSF RR

SCALE: 1"=10' | SHEET 14 OF 22 SHEETS | STA. 50+25.00 | TO STA. 50+25.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-6VBR	ADAMS	113	105
		CONTRACT NO. 72250		
	ILLINOIS	FED. AID PROJECT		



MODEL: BURLINGTON - 50+50.00 [Sheet]
FILE NAME: C:\Users\ggayt\Fuhrmann Engineering\Internal - Drive\Projects\FEI\Jobs\ 2023\23-2100_PTB206-040_D6_V-V_Ph1-2_FEI_Prime\WO-03\CADD\CADD Sheets\D672250-sht-xsght.dgn

FUHRMANN ENGINEERING
WWW. FUHRMANN-ENG .COM

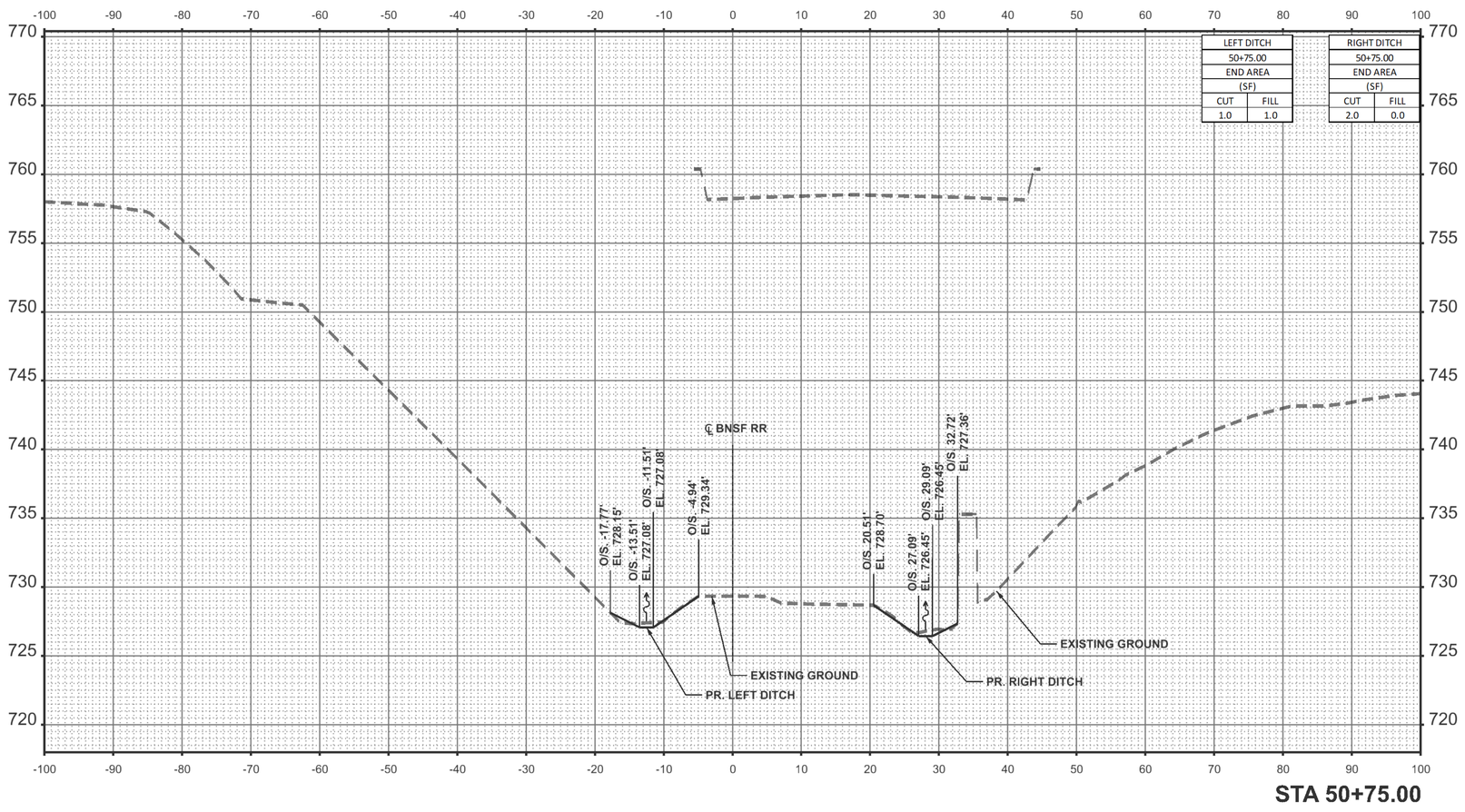
USER NAME = ggayt	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 8/13/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
BNSF RR

SCALE: 1"=10' | SHEET 15 OF 22 SHEETS | STA. 50+50.00 | TO STA. 50+50.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-6VBR	ADAMS	113	106
		CONTRACT NO. 72250		
	ILLINOIS	FED. AID PROJECT		



STA 50+75.00

MODEL: BURLINGTON - 50+75.00 [Sheet]
FILE NAME: C:\Users\ggayt\Fuhrmann Engineering\Internal - Drive\Projects\FEI\Jobs\ 2023\23-2100_PTB206-040_D6_V-V_Ph1-2_FEI_Prime\WO-03\CADD\CADD Sheets\D672250-sht-xsght.dgn

FUHRMANN ENGINEERING
WWW. FUHRMANN-ENG .COM

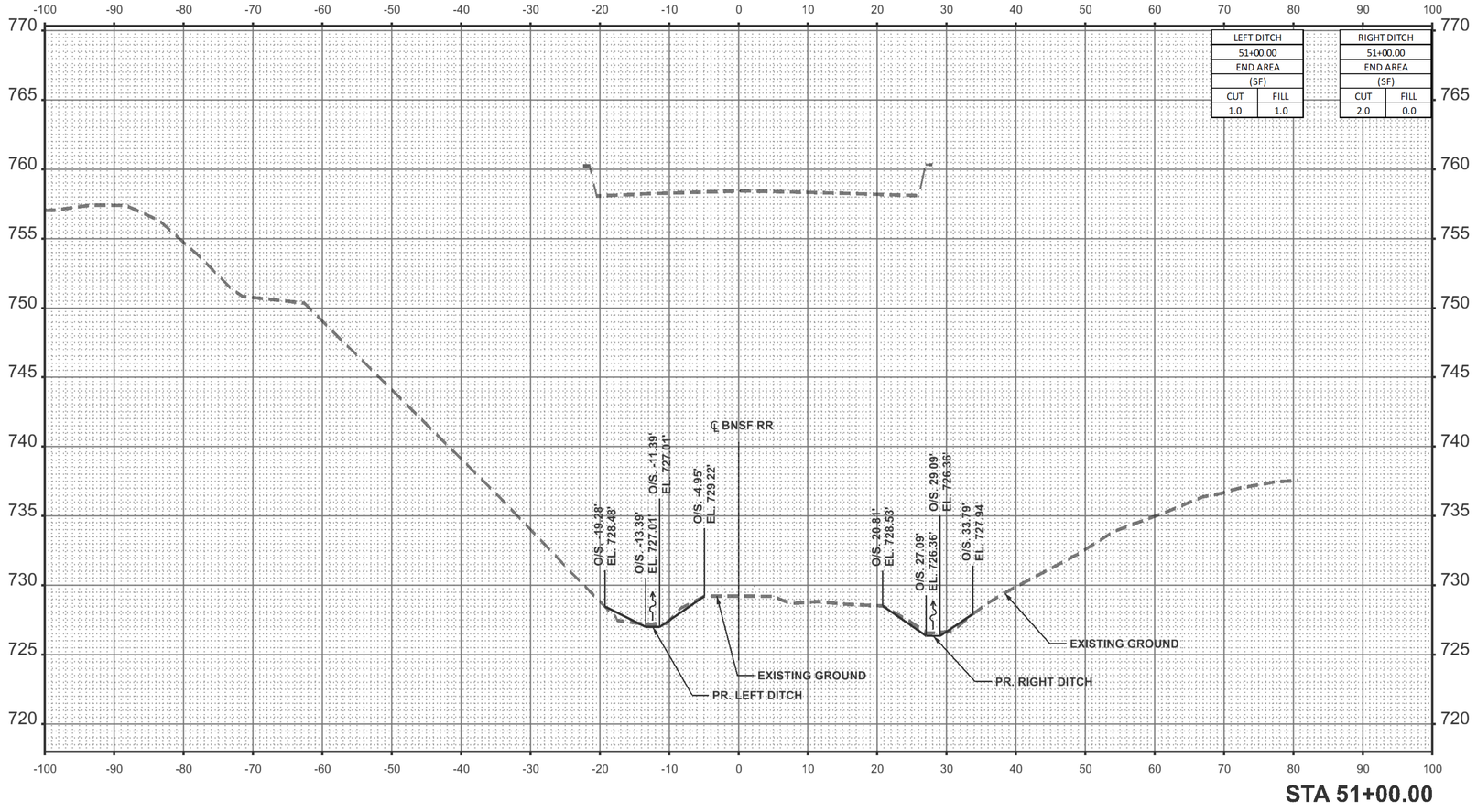
USER NAME = ggayt	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 8/13/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
BNSF RR

SCALE: 1"=10' | SHEET 16 OF 22 SHEETS | STA. 50+75.00 | TO STA. 50+75.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-6VBR	ADAMS	113	107
		CONTRACT NO. 72250		
		ILLINOIS	FED. AID PROJECT	



MODEL: BURLINGTON - 51+00.00 [Sheet]
FILE NAME: C:\Users\ggayt\Fuhrmann Engineering\Internal - Drive\Projects\FE\Jobs\ 2023\23-2100_PTB206-040_D6_V-V_Ph1-2_FEI_Prime\WO-03\CADD\CADD Sheets\D672250-sht-xsght.dgn

FUHRMANN ENGINEERING
WWW. FUHRMANN-ENG .COM

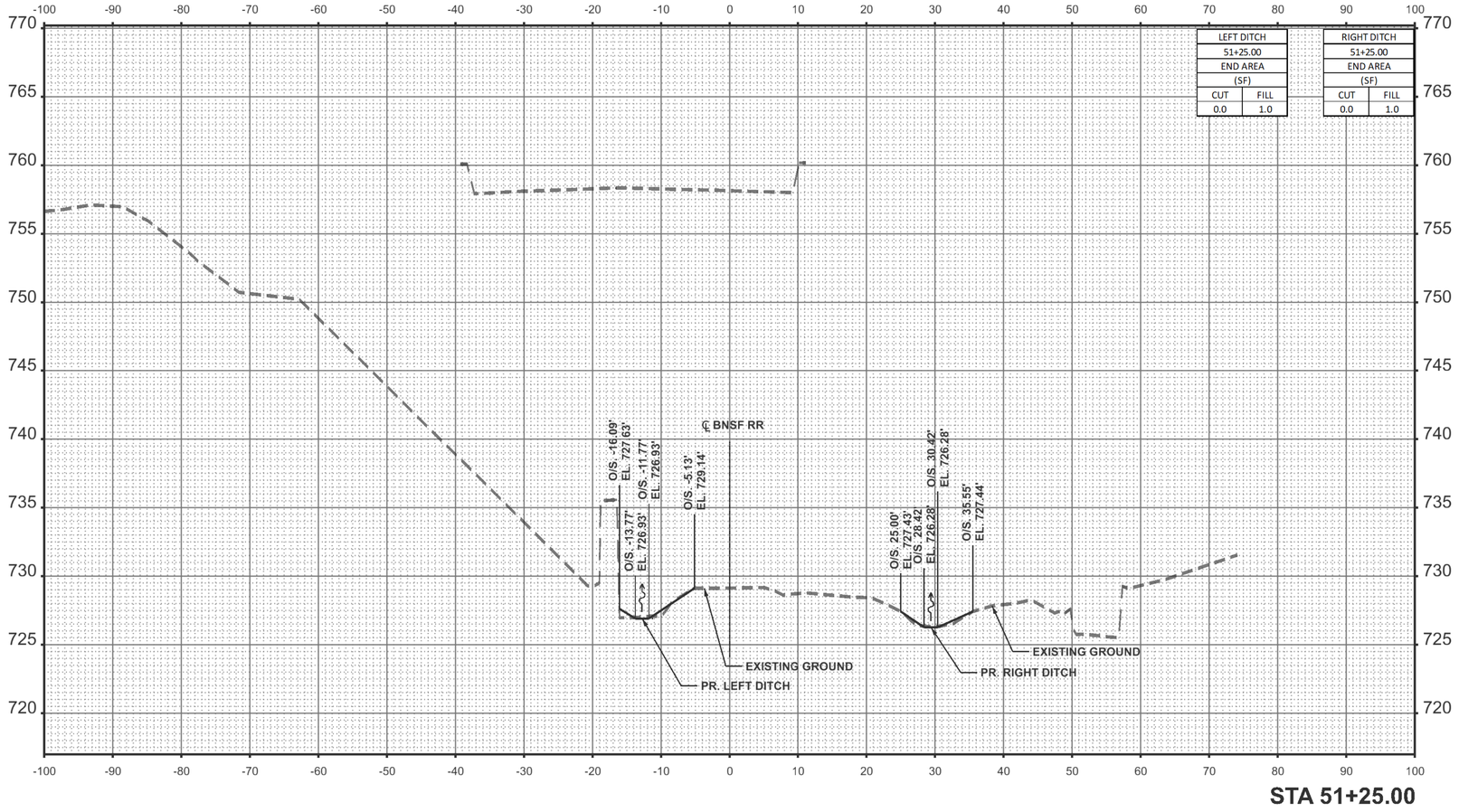
USER NAME = ggayt	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 8/13/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
BNSF RR

SCALE: 1"=10' | SHEET 17 OF 22 SHEETS | STA. 51+00.00 | TO STA. 51+00.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-6VBR	ADAMS	113	108
		CONTRACT NO. 72250		
		ILLINOIS	FED. AID PROJECT	



MODEL: BURLINGTON - 51+25.00 [Sheet]
FILE NAME: C:\Users\ggayt\Fuhrmann Engineering\Internal - Drive\Projects\FE\Jobs\ 2023\23-2100_PTB206-040_D6_V-V_Ph1-2_FEI_Prime\WO-03\CADD\CADD_Sheets\D6722250-sht-xssht.dgn

FUHRMANN ENGINEERING
WWW. FUHRMANN-ENG .COM

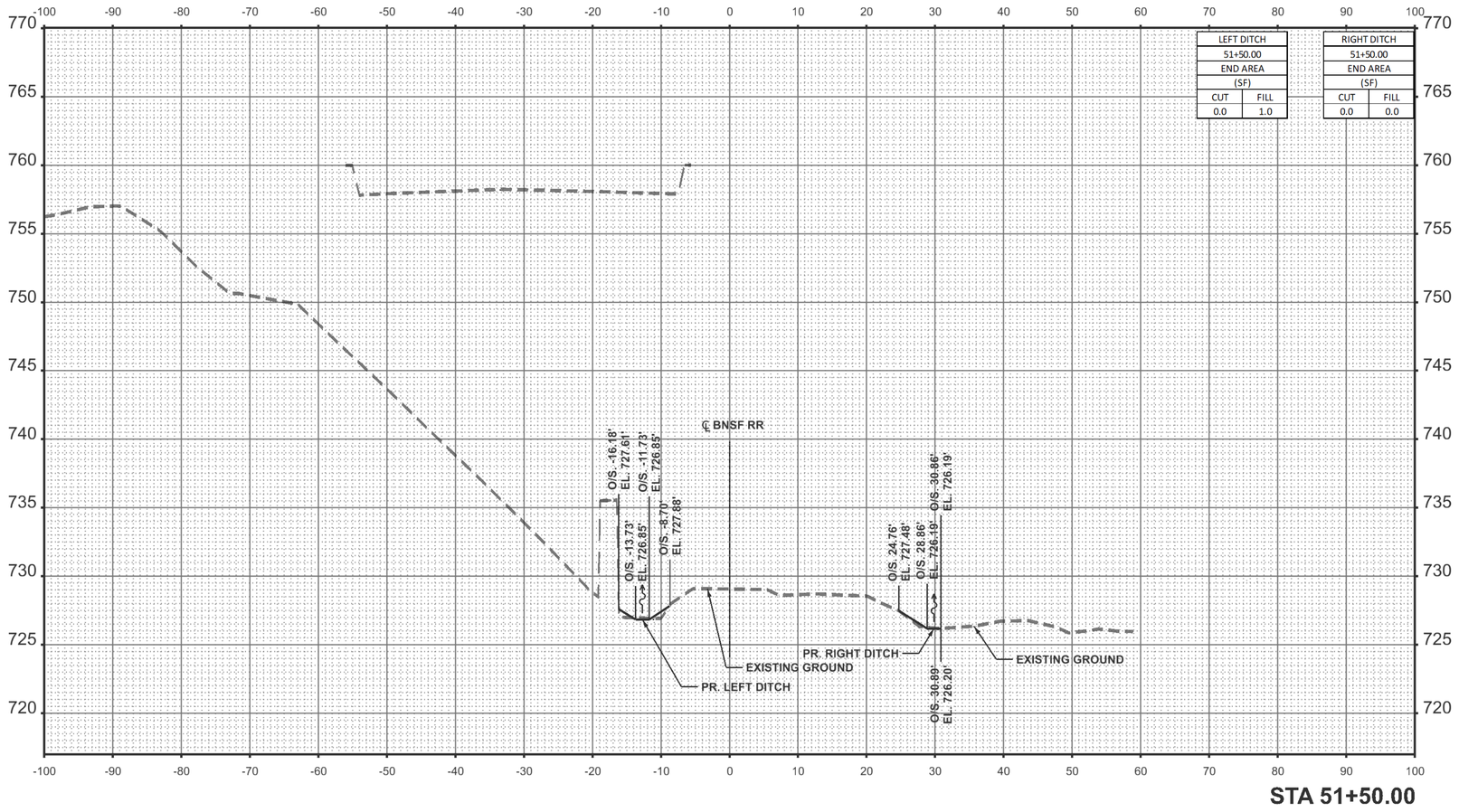
USER NAME = ggayt	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 8/13/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
BNSF RR

SCALE: 1"=10' | SHEET 18 OF 22 SHEETS | STA. 51+25.00 | TO STA. 51+25.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-6VBR	ADAMS	113	109
		CONTRACT NO. 72250		
	ILLINOIS	FED. AID PROJECT		



MODEL: BURLINGTON - 51+50.00 [Sheet]
FILE NAME: C:\Users\ggayt\Fuhrmann Engineering\Internal - Drive\Projects\FE\Jobs\ 2023\23-2100_PTB206-040_D6_V-V_Ph1-2_FEI_Prime\WO-03\CADD\CADD Sheets\D6722250-sht-xssht.dgn

FUHRMANN ENGINEERING
WWW. FUHRMANN-ENG .COM

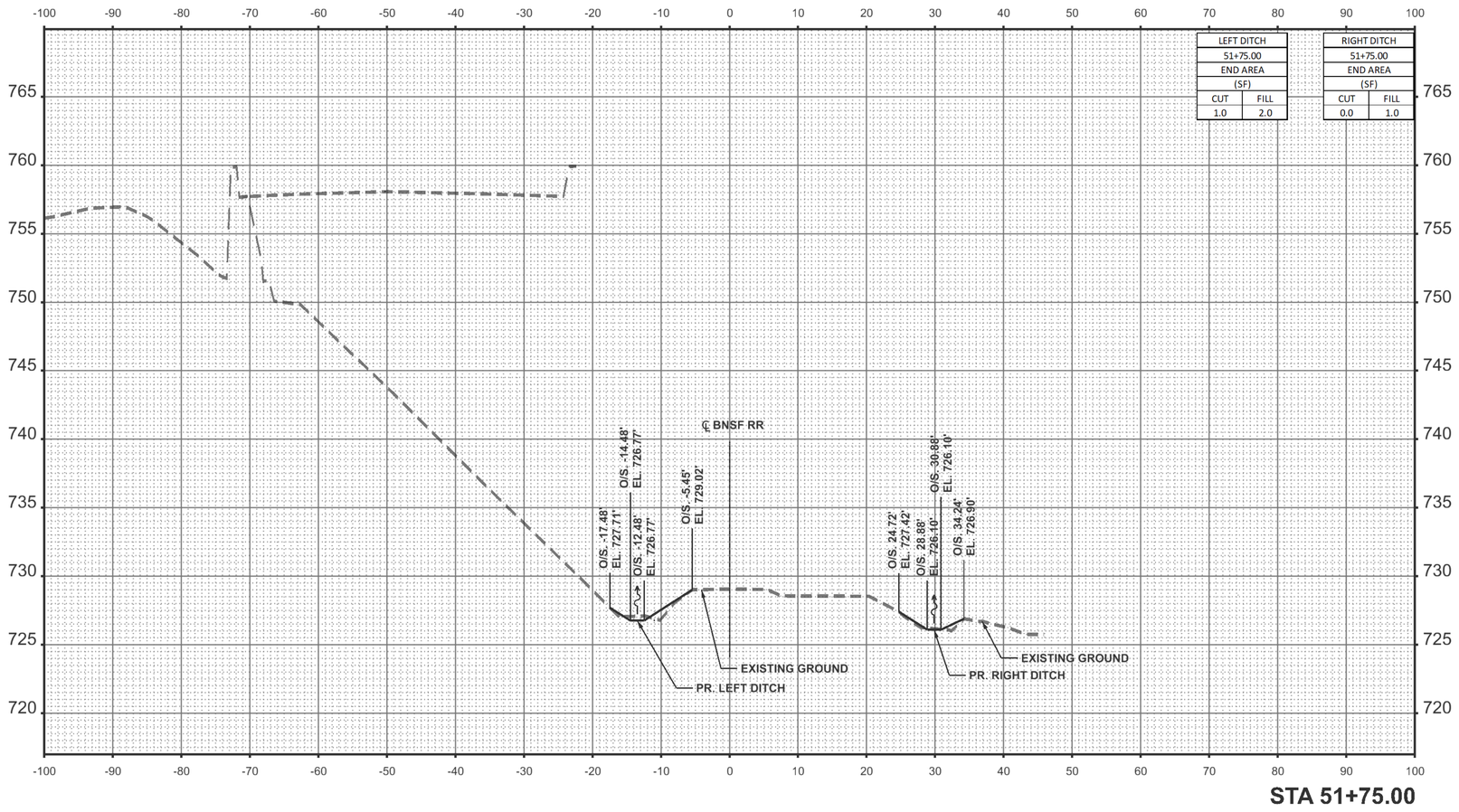
USER NAME = ggayt	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 8/13/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
BNSF RR

SCALE: 1"=10' | SHEET 19 OF 22 SHEETS | STA. 51+50.00 | TO STA. 51+50.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-6VBR	ADAMS	113	110
		CONTRACT NO. 72250		
		ILLINOIS	FED. AID PROJECT	



MODEL: BURLINGTON - 51+75.00 [Sheet]
FILE NAME: C:\Users\ggayt\Fuhrmann Engineering\Internal - Drive\Projects\FE\Jobs\ 2023\23-2100_PTB206-040_D6_V-V_Ph1-2_FEI_Prime\WO-03\CADD\CADD_Sheets\D6722250-sht-xssht.dgn

FUHRMANN ENGINEERING
WWW. FUHRMANN-ENG .COM

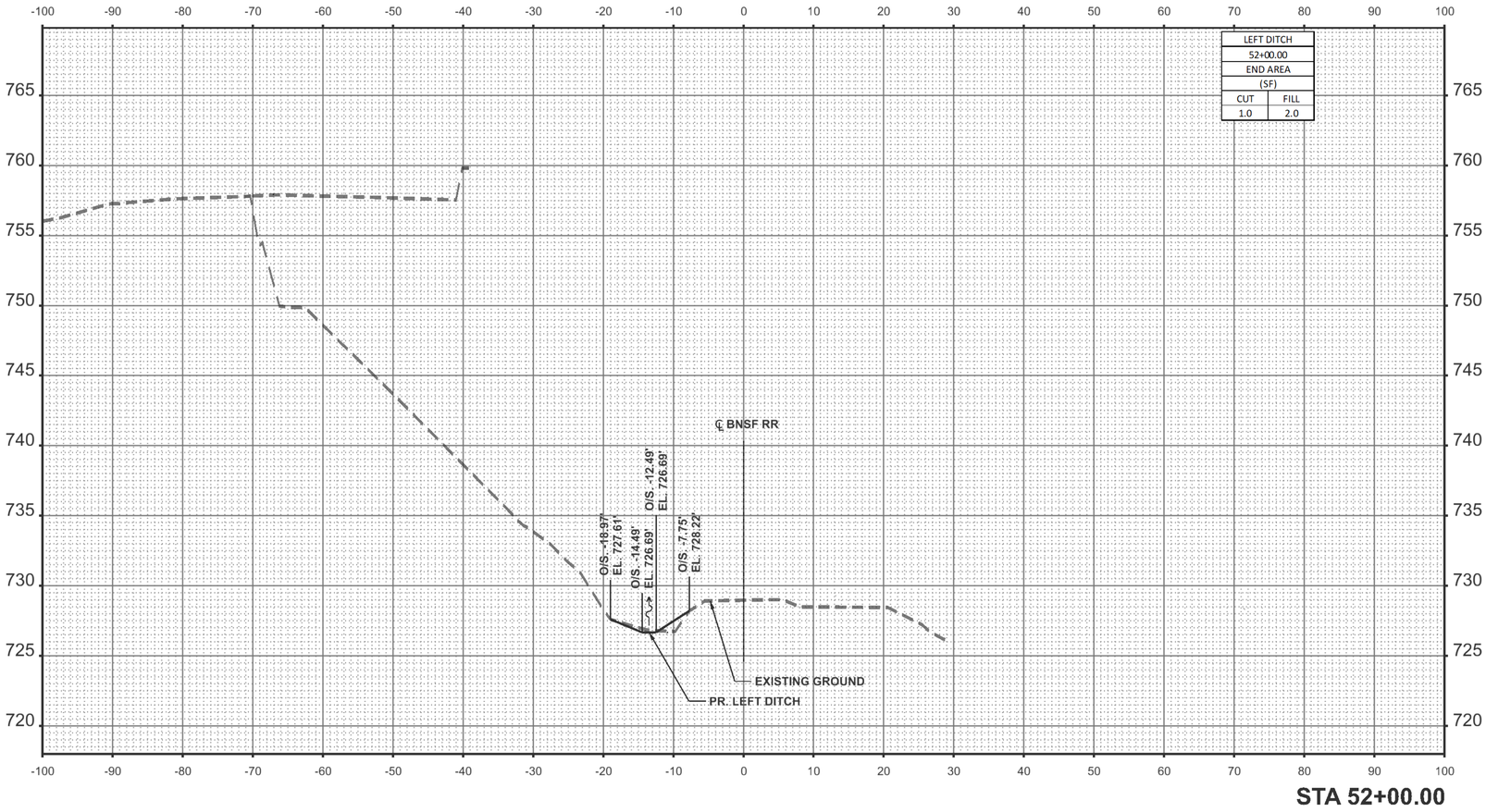
USER NAME = ggayt	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 8/13/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
BNSF RR

SCALE: 1"=10' | SHEET 20 OF 22 SHEETS | STA. 51+75.00 | TO STA. 51+75.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-6VBR	ADAMS	113	111
		CONTRACT NO. 72250		
	ILLINOIS	FED. AID PROJECT		



MODEL: BURLINGTON - 52+00.00 [Sheet]
FILE NAME: C:\Users\ggayt\Fuhrmann Engineering\Internal - Drive\Projects\FEI\Jobs\ 2023\23-2100_PTB206-040_D6_V-V_Ph1-2_FEI_Prime\WO-03\CADD\CADD Sheets\D672250-sht-xssht.dgn

FUHRMANN ENGINEERING
WWW. FUHRMANN-ENG .COM

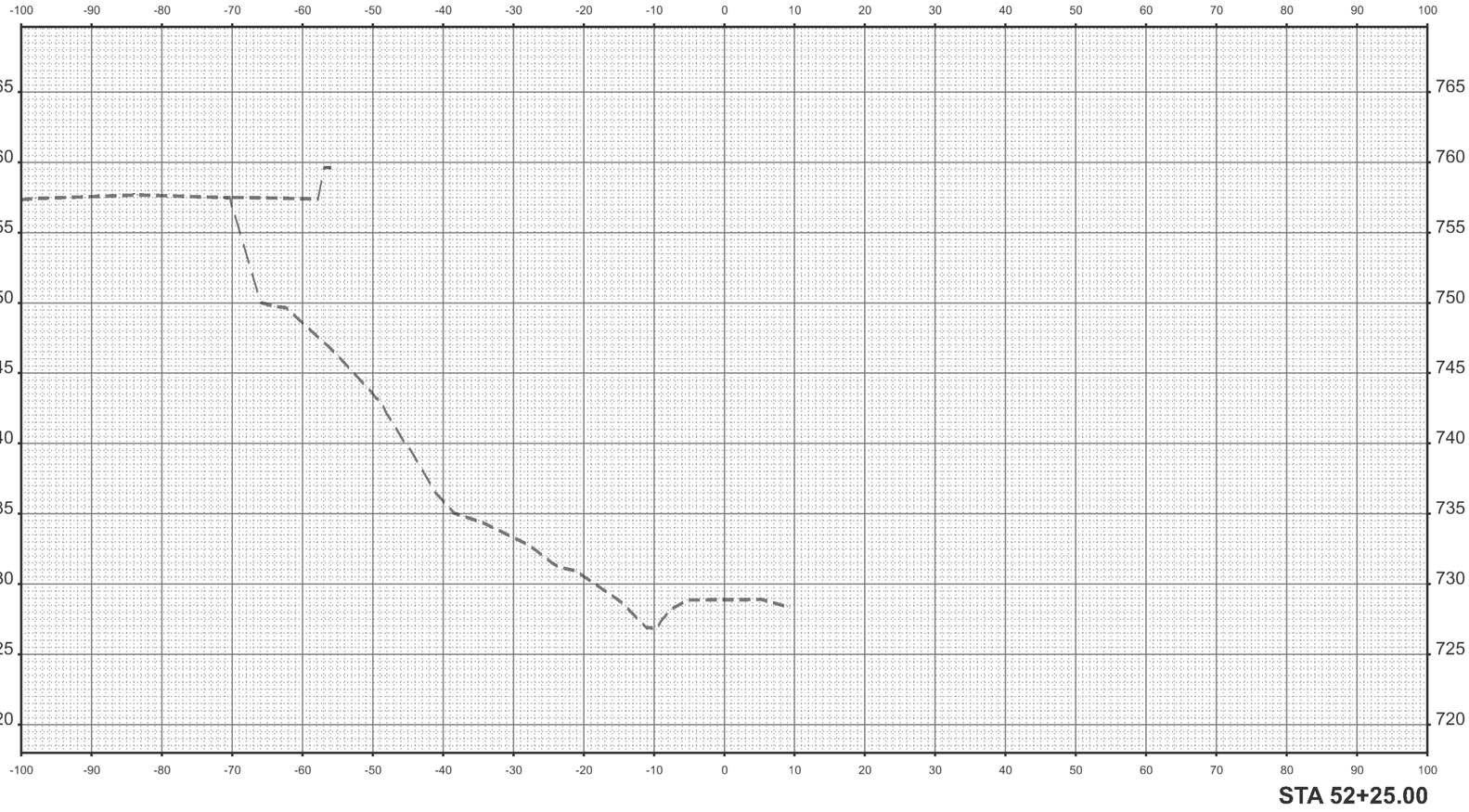
USER NAME = ggayt	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 8/13/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
BNSF RR

SCALE: 1"=10' | SHEET 21 OF 22 SHEETS | STA. 52+00.00 | TO STA. 52+00.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-6VBR	ADAMS	113	112
		CONTRACT NO. 72250		
		ILLINOIS	FED. AID PROJECT	



STA 52+25.00

MODEL: BURLINGTON - 52+25.00 [Sheet]
FILE NAME: C:\Users\ggayt\Fuhrmann Engineering\Internal - Drive\Projects\FE\Jobs\ 2023\23-2100_PTB206-040_D6_V-V_Ph1-2_FEI_Prime\WO-03\CADD\CADD_Sheets\D672250-sht-xssht.dgn

FUHRMANN ENGINEERING
WWW. FUHRMANN-ENG .COM

USER NAME = ggayt	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 8/13/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
BNSF RR

SCALE: 1"=10' | SHEET 22 OF 22 SHEETS | STA. 52+25.00 | TO STA. 52+25.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	1-6VBR	ADAMS	113	113
		CONTRACT NO. 72250		
	ILLINOIS	FED. AID PROJECT		