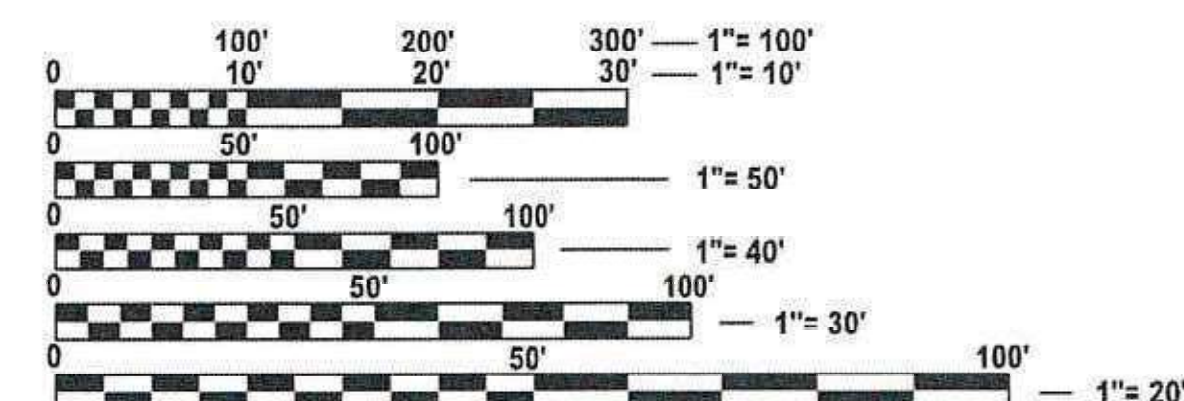


11-06-2026 LETTING ITEM 108

FOR INDEX OF SHEETS, SEE SHEET NO. 2

I-72 ADT = 14,000
I-72 POSTED SPEED LIMIT = 70 MPH

NORFOLK SOUTHERN
MP DH-380.91,
MIDWEST DIVISION



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

DISTRICT 7
PROJECT ENGINEER: LEAH HILLE
PROJECT MANAGER: ERIC HENKEL - ESCA CONSULTANTS
TOWNSHIP: HARRISTOWN
CONTRACT NO. 74D08



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
**PROPOSED
HIGHWAY PLANS**

F.A.I. ROUTE 72 (I-72)
SECTION D7 BRIDGE REPAIRS 2026-3
NHPP-A7H9(419)
BRIDGE REPAIR
I-72/US 51 OVER HARRISTOWN BLVD.
I-72/US 51 OVER GRAND AVE. AND NORFOLK SOUTHERN RR
MACON COUNTY
C-97-080-24

R1E, 3RD PM



LOCATION MAP

GROSS LENGTH = 3,168 FT. = 0.600 MILE
NET LENGTH = 1,023 FT. = 0.194 MILE

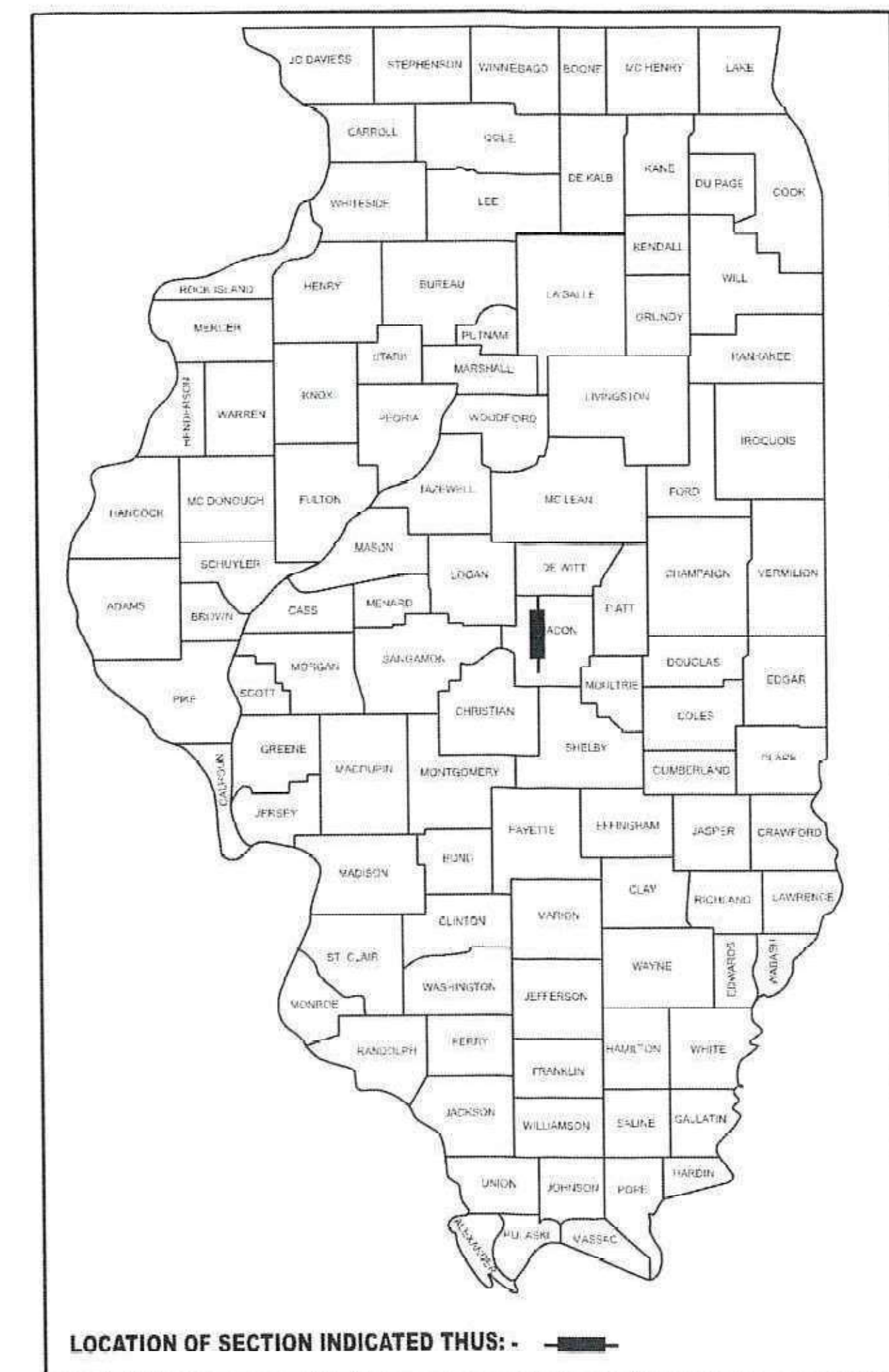


SN 058-0070 & 058-0071
I-72/US 51 OVER GRAND
AVENUE AND NORFOLK
SOUTHERN RR
TWO-SPAN BRIDGES

SN 058-0068 & 058-0069
I-72/US 51 OVER
HARRISTOWN
BOULEVARD
TWO-SPAN BRIDGES

F.A.I. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	D7 BRIDGE REPAIRS 2026-3	MACON	108	1
		ILLINOIS	CONTRACT NO. 74D08	

D-97-047-24



LOCATION OF SECTION INDICATED THUS: -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED January 28, 20 26
Teresa C. Price REGIONAL ENGINEER
March 20 26
See E. A. Etk ENGINEER OF DESIGN AND ENVIRONMENT
March 20 26
Quarry 5
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	INDEX OF SHEETS, HIGHWAY STANDARDS, AND GENERAL NOTES
3-7	SUMMARY OF QUANTITIES
8	I-72 TYPICAL SECTIONS
9-11	SCHEDULES OF QUANTITIES
12-13	I-72 PAVING PLAN
14-17	I-72 TRAFFIC CONTROL TYPICAL SECTIONS
18-21	I-72 STAGE I TRAFFIC CONTROL PLAN
22-25	I-72 STAGE II TRAFFIC CONTROL PLAN
26-28	HARRISTOWN BOULEVARD STAGE I TRAFFIC CONTROL PLAN
29-31	HARRISTOWN BOULEVARD STAGE II TRAFFIC CONTROL PLAN
32	GRAND AVENUE CLOSURE PLAN
33-36	I-72 PAVEMENT MARKING PLAN
37-38	TYPICAL APPLICATIONS OF INTERSTATE PAVEMENT MARKINGS
39	MISCELLANEOUS DETAILS
40-72	SN 058-0068 & SN 058-0069 STRUCTURE PLANS
73-108	SN 058-0070 & SN 058-0071 STRUCTURE PLANS

GENERAL NOTES

1.

THIS PROJECT IS LOCATED ON I-72 / US 51 OVER HARRISTOWN BOULEVARD AND GRAND AVENUE IN MACON COUNTY. THIS WORK INCLUDES THE FOLLOWING REPAIRS TO SN 058-0068/0069 CARRYING I-72 / US 51 OVER HARRISTOWN BOULEVARD AND SN 058-0070/0071 CARRYING I-72 / US 51 OVER GRAND AVENUE: DECK PATCHING, NEW CONCRETE WEARING SURFACE, ABUTMENT BEARING REPLACEMENT, EXPANSION JOINT REPLACEMENT, PIER CRASH WALL EXTENSIONS, SLOPE WALL REPAIR, AND OTHER ITEMS SHOWN IN THESE DOCUMENTS.
2.

PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING PLANS ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN SCOPE OF WORK; HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.
3.

FOR STABILIZATION, ALL TYPE III BARRICADES SHALL REQUIRE A MINIMUM OF FOUR SANDBAGS PER BARRICADE.
4.

RUMBLE STRIPS SHALL BE INSTALLED ON ALL SHOULDERS OFF OF THE BRIDGES. HOWEVER, THE STRIPS SHALL NOT BE INSTALLED UNTIL AFTER THE SHOULDER IS NO LONGER NEEDED TO ACCOMMODATE STAGE TRAFFIC.
5.

THE CONTRACTOR SHALL TAKE ALL MEASURES NECESSARY TO ENSURE THAT THE RWIS WEATHER STATION SHALL BE UNDISTURBED. CONTACT: DOUG RUDOLPHI, D7 MAINTENANCE FIELD ENGINEER, CELL: 217-299-4636
6.

TEMPORARY CONCRETE BARRIER SHALL BE PINNED ON EACH BRIDGE ACCORDING TO THE DETAILS SHOWN IN THE PLANS, A TRANSITION SHALL BE USED NEAR EACH END OF THE BARRIER INSTALLATION. THE FIRST BARRIER SECTION ON THE ADJACENT ROADWAY SHALL BE PINNED USING TWO PINS. THE SECOND BARRIER SECTION ON THE ADJACENT ROADWAY SHALL BE PINNED USING ONE PIN.
7.

ANY TEMPORARY RAMPS REQUIRED ARE INCLUDED IN THE COST OF HOT-MIX ASPHALT SURFACE REMOVAL.
8.

THE COST OF EARTH EXCAVATION AND BACKFILL REQUIRED TO CONSTRUCT NEW PORTLAND CEMENT CONCRETE SHOULDERS IS INCLUDED IN PORTLAND CEMENT CONCRETE BASE COURSE WIDENING 10".
9.

TRANSVERSE JOINTS SHALL BE CONSTRUCTED IN PORTLAND CEMENT CONCRETE BASE COURSE WIDENING AS SHOWN IN HIGHWAY STANDARD 483001 FOR PCC SHOULDER.
10.

AGGREGATE SHOULDERS, TYPE B SHALL BE CONSTRUCTED ADJACENT TO PCC BASE COURSE WIDENING AS REQUIRED TO ELIMINATE ANY DROPOFF. COMPACTION SHALL BE TO THE SATISFACTION OF THE ENGINEER. SOME OF THIS QUANTITY MAY BE ELIMINATED AT THE DIRECTION OF THE ENGINEER.
11.

ALL WORK TO BE PREFORMED ON, OVER, UNDER, OR ADJACENT TO THE RAILROAD RIGHT-OF-WAY SHALL COMPLY WITH THE NORFOLK SOUTHERN RAILWAY COMPANY ("RAILROAD", "NSR" OR "NS") PUBLIC PROJECTS MANUAL (APPENDIX E, SPECIAL PROVISIONS FOR THE PROTECTION OF RAILWAY INTERESTS, AND APPENDIX H1, OVERHEAD GRADE SEPARATION DESIGN CRITERIA). WHEN IN CONFLICT WITH OTHER PROJECT SPECIFICATIONS, THE MOST STRINGENT ONE SHALL APPLY.
12.

"ONE CALL" SERVICES DO NOT LOCATE BURIED RAILROAD SIGNAL AND COMMUNICATIONS LINES. THE CONTRACTOR SHALL CONTACT THE RAILROAD'S REPRESENTATIVE 2 DAYS IN ADVANCE OF WORK AT THOSE PLACES WHERE EXCAVATION, PILE DRIVING, OR HEAVY LOADS MAY DAMAGE THE RAILROAD'S UNDERGROUND FACILITIES. UPON REQUEST FROM THE CONTRACTOR OR SPONSOR, RAILROAD FORCES WILL LOCATE AND PAINT MARK OR FLAG THE RAILROAD'S UNDERGROUND FACILITIES. THE CONTRACTOR SHALL AVOID EXCAVATION OR OTHER DISTURBANCE OF THESE FACILITIES. IF DISTURBANCE OR EXCAVATION IS REQUIRED NEAR A BURIED RAILROAD FACILITY, THE CONTRACTOR SHALL COORDINATE WITH THE RAILROAD TO HAVE THE FACILITY POTHOLED MANUALLY WITH CAREFUL HAND EXCAVATION. THE FACILITY SHALL BE PROTECTED BY THE CONTRACTOR DURING THE COURSE OF THE DISTURBANCE UNDER THE SUPERVISION AND DIRECTION OF THE RAILROAD'S REPRESENTATIVE (SEE NS PUBLIC PROJECTS MANUAL, APPENDIX E, SECTION 3.D).
13.

THE CONTRACTOR SHALL NOT COMMENCE ANY WORK ON RAILROAD RIGHTS-OF-WAY UNTIL HE/SHE HAS COMPLIED WITH THE CONDITIONS PRESENTED ON NS PUBLIC PROJECTS MANUAL (SEE APPENDIX E, NORFOLK SOUTHERN - SPECIAL PROVISIONS FOR PROTECTION OF RAILWAY INTERESTS). THE CONTRACTOR SHALL SO ARRANGE AND CONDUCT HIS/HER WORK THAT THERE WILL BE NO INTERFERENCE WITH RAILROAD'S OPERATIONS. WHENEVER WORK IS LIABLE TO AFFECT THE OPERATIONS OR SAFETY OF TRAINS, THE METHODS OF DOING SUCH WORK SHALL FIRST BE SUBMITTED TO THE RAILROAD ENGINEER FOR APPROVAL, BUT SUCH APPROVAL SHALL NOT RELIEVE THE CONTRACTOR FROM ANY LIABILITY. RIGHT-OF-WAY AND/OR SECURITY FENCE SHALL BE PROVIDED AS DIRECTED BY THE NS PUBLIC PROJECT ENGINEER.
14.

THE CONTACT INFORMATION FOR THE RAILROAD IS AS FOLLOWS:

JAKE WATSON
ENGINEER - PUBLIC IMPROVEMENTS
NORFOLK SOUTHERN CORPORATION
650 PEACHTREE STREET, NW, BOX 45
ATLANTA, GA 30308
(470) 463-6778 (o)
JACOB.WATSON@NSCORP.COM

LIST OF ILLINOIS DOT HIGHWAY STANDARDS

STANDARD NO.	DESCRIPTION
000001-09	STANDARDS SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
420001-11	PAVEMENT JOINTS
483001-06	PCC SHOULDER
630001-13	STEEL PLATE BEAM GUARDRAIL
642001-03	SHOULDER RUMBLE STRIPS 16"
701001-02	OFF-RD OPERATIONS 2L 2W MORE THAN 15FT
701006-05	OFF-RD OPERATIONS 2L 2W 15' TO 24" FROM PAVEMENT EDGE
701101-05	OFF-RD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
701106-02	OFF-RD OPERATIONS, MULTILANE, MORE THAN 15' AWAY
701400-12	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-13	LANE CLOSURE, FREEWAY/EXPRESSWAY
701402-12	LANE CLOSURE FREEWAY/EXPRESSWAY WITH BARRIER
701406-13	LANE CLOSURE FREEWAY/EXPRESSWAY DAY OPERATIONS ONLY
701411-09	LANE CLOSURE MULTILANE ENTRANCE OR EXIT RAMP 45MPH OR MORE
701422-10	LANE CLOSURE MULTILANE 45-55MPH
701426-09	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS ≥45 MPH
701428-01	TRAFFIC CONTROL SETUP REMOVAL FREEWAY EXPRESSWAY
701446-11	TWO LANE CLOSURE FREEWAY/EXPRESSWAY
701901-11	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
780001-05	TYPICAL PAVEMENT MARKINGS
B.L.R. 21-9	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS

APPLICATION RATES

THE FOLLOWING APPLICATION RATES WERE USED IN CALCULATING PLAN QUANTITIES AND HAVE BEEN INCLUDED FOR REFERENCE:	
BITUMINOUS MATERIALS (TACK COAT)	0.05 LB/SQ FT (ON MILLED SURFACES)
	0.025 LB/SQ FT (ON HMA LIFTS)
AGGREGATE	2.05 TON/CU YD

HMA MIXTURES REQUIREMENTS TABLE	
LOCATIONS	FINAL TRAFFIC LANES
MIXTURE USES	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5 MIX "D", N90
PG:	SBS PG 70-28
DESIGN AIR VOIDS:	4.0% @ N90
MIX COMPOSITION:	IL-9.5 mm
FRICTION AGGREGATE:	MIXTURE D
MIXTURE WEIGHT:	112 LB/SQ YD/IN
QUALITY MANAGEMENT PROGRAM:	QC/QA
SUBLOT SIZE:	NA
MATERIAL TRANSFER DEVICE REQUIRED:	NO

MODEL: Index Sheet
FILE NAME: Y:\IDOT\1445-01_74D08\74D08 DESIGN\CADD\Highway\CADD Streets\ID774D08-shl-genrnote01.dgn

	USER NAME = nhc	DESIGNED - ATN	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INDEX OF SHEETS, HIGHWAY STANDARDS, AND GENERAL NOTES			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	ESCA PROJECT NO. = 1445.01	DRAWN - ATN/NHC	REVISED -					72	D7 BRIDGE REPAIRS 2026-3	MACON	108	2
		CHECKED - ELH	REVISED -					CONTRACT NO. 74D08				
	PLOT DATE = 9/2/2026	DATE - 09/26	REVISED -		SCALE: NONE	SHEET 1 OF 1 SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT				

MODEL: Summary Of Quantities Sheet 1
FILE NAME: Y:\IDOT\1445-01_74D08\74D08 DESIGN\CADD\Highway\CAADD Sheets\ID774D08-sh1-SQO.dgn

SUMMARY OF QUANTITIES				90% FEDERAL 10% STATE	90% FEDERAL 10% STATE	90% FEDERAL 10% STATE	90% FEDERAL 10% STATE	90% FEDERAL 10% STATE
				ROADWAY	STRUCTURE	STRUCTURE	STRUCTURE	STRUCTURE
				CONSTRUCTION CODE				
				0006	0047	0047	0047	0047
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY	SN 058-0068	SN 058-0069	SN 058-0070	SN 058-0071
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	92		15	22	20	35
31101000	SUBBASE GRANULAR MATERIAL, TYPE B	TON	330		30	45	100	155
31101900	SUBBASE GRANULAR MATERIAL, TYPE C	TON	1075	1075				
35400500	PORTLAND CEMENT CONCRETE BASE COURSE WIDENING 10"	SQ YD	9597	9597				
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	2209	2209				
40600370	LONGITUDINAL JOINT SEALANT	FOOT	2411	2411				
40604064	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N90	TON	481	481				
44000156	HOT-MIX ASPHALT SURFACE REMOVAL, 1 3/4"	SQ YD	4910	4910				
44004250	PAVED SHOULDER REMOVAL	SQ YD	9597	9597				
48101200	AGGREGATE SHOULDERS, TYPE B	TON	318	318				
50102400	CONCRETE REMOVAL	CU YD	61.5		16.2	18.8	13.8	12.7
50104650	SLOPE WALL REMOVAL	SQ YD	896				448	448
50157300	PROTECTIVE SHIELD	SQ YD	1372		542	633	101	96
50300100	FLOOR DRAINS	EACH	36		8	4	12	12

REV - MS



USER NAME = atn	DESIGNED - ATN	REVISED -
ESCA PROJECT NO. = 1445.01	DRAWN - ATN	REVISED -
	CHECKED - ELH	REVISED -
PLOT DATE = 9/23/2025	DATE - 01/26	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NONE SHEET 1 OF 5 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	D7 BRIDGE REPAIRS 2026-3	MACON	108	3
CONTRACT NO. 74D08				
ILLINOIS FED. AID PROJECT				

MODEL: Summary Of Quantities Sheet 2
FILE NAME: Y:\IDOT\1445-01_74D08\74D08 DESIGN\CADD\Highway\CADD Sheets\ID774D08-sh1-SQ0.dgn

SUMMARY OF QUANTITIES				90% FEDERAL 10% STATE	90% FEDERAL 10% STATE	90% FEDERAL 10% STATE	90% FEDERAL 10% STATE	90% FEDERAL 10% STATE
				ROADWAY	STRUCTURE	STRUCTURE	STRUCTURE	STRUCTURE
				CONSTRUCTION CODE				
				0006	0047	0047	0047	0047
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY	SN 058-0068	SN 058-0069	SN 058-0070	SN 058-0071
50300225	CONCRETE STRUCTURES	CU YD	59.0		7.0	8.7	21.7	21.6
50300255	CONCRETE SUPERSTRUCTURE	CU YD	60.3		15.7	18.8	13.4	12.4
50300300	PROTECTIVE COAT	SQ YD	6113		1366	1665	1532	1550
50500405	FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	13968		3597	4490	2925	2956
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	14510		2870	3860	3970	3810
50800515	BAR SPLICERS	EACH	80		20	20	20	20
51100100	SLOPE WALL 4 INCH	SQ YD	888				444	444
52000110	PREFORMED JOINT STRIP SEAL	FOOT	442		114.5	139.5	97	91
52100010	ELASTOMERIC BEARING ASSEMBLY, TYPE I	EACH	64		16	20	14	14
52100520	ANCHOR BOLTS, 1"	EACH	112		28	36	24	24
63300575	REMOVE AND REERECT RAIL ELEMENT OF EXISTING GUARDRAIL	FOOT	1857	1857				
64200116	SHOULDER RUMBLE STRIPS, 16 INCH	FOOT	9554	9554				
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	9	9				
67100100	MOBILIZATION	L SUM	1	1				

REV - MS



USER NAME = atn	DESIGNED - ATN	REVISED -
ESCA PROJECT NO. = 1445.01	DRAWN - ATN	REVISED -
	CHECKED - ELH	REVISED -
PLOT DATE = 9/23/2025	DATE - 01/26	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NONE SHEET 2 OF 5 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	D7 BRIDGE REPAIRS 2026-3	MACON	108	4
CONTRACT NO. 74D08				
ILLINOIS FED. AID PROJECT				

MODEL: Summary Of Quantities Sheet 3
FILE NAME: Y:\IDOT\1445-01_74D08\74D08 DESIGN\CADD\Highway\CADD Sheets\ID774D08-sh1-SQ0.dgn

SUMMARY OF QUANTITIES				90% FEDERAL 10% STATE	90% FEDERAL 10% STATE	90% FEDERAL 10% STATE	90% FEDERAL 10% STATE	90% FEDERAL 10% STATE
				ROADWAY	STRUCTURE	STRUCTURE	STRUCTURE	STRUCTURE
				CONSTRUCTION CODE				
				0006	0047	0047	0047	0047
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY	SN 058-0068	SN 058-0069	SN 058-0070	SN 058-0071
70100205	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	EACH	2	2				
70100207	TRAFFIC CONTROL AND PROTECTION, STANDARD 701402	EACH	2	2				
70100320	TRAFFIC CONTROL AND PROTECTION, STANDARD 701422	L SUM	1	1				
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	2	2				
70100430	TRAFFIC CONTROL AND PROTECTION, STANDARD 701446	EACH	2	2				
70100700	TRAFFIC CONTROL AND PROTECTION, STANDARD 701406	L SUM	1	1				
70107007	PAVEMENT MARKING BLACKOUT TAPE, 7"	FOOT	12913	12913				
70107009	PAVEMENT MARKING BLACKOUT TAPE, 9"	FOOT	1941	1941				
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	70	70				
70300100	SHORT TERM PAVEMENT MARKING	FOOT	440	440				
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	9136	9136				
70300241	TEMPORARY PAVEMENT MARKING - LINE 6"- PAINT	FOOT	4984	4984				
70400100	TEMPORARY CONCRETE BARRIER	FOOT	2175	2175				
70400125	PINNING TEMPORARY CONCRETE BARRIER	EACH	48	48				

REV - MS



USER NAME = atn	DESIGNED - ATN	REVISED -
ESCA PROJECT NO. = 1445.01	DRAWN - ATN	REVISED -
	CHECKED - ELH	REVISED -
PLOT DATE = 9/23/2025	DATE - 01/26	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NONE SHEET 3 OF 5 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	D7 BRIDGE REPAIRS 2026-3	MACON	108	5
CONTRACT NO. 74D08				
ILLINOIS FED. AID PROJECT				

MODEL: Summary Of Quantities Sheet 4
FILE NAME: Y:\IDOT\1445-01_74D08\74D08 DESIGN\CADD\Highway\CADD Sheets\ID774D08-sh1-SQ.dgn

SUMMARY OF QUANTITIES				90% FEDERAL 10% STATE	90% FEDERAL 10% STATE	90% FEDERAL 10% STATE	90% FEDERAL 10% STATE	90% FEDERAL 10% STATE
				ROADWAY	STRUCTURE	STRUCTURE	STRUCTURE	STRUCTURE
				CONSTRUCTION CODE				
				0006 ROADWAY	0047 SN 058-0068	0047 SN 058-0069	0047 SN 058-0070	0047 SN 058-0071
CODE NO.	ITEM	UNIT	TOTAL QUANTITY					
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	2125	2125				
70600250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	4	4				
70600350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	4	4				
78004600	PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - LETTERS AND SYMBOLS	SQ FT	44	44				
* 78004630	PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - LINE 6"	FOOT	4984	4984				
* 78011000	GROOVING FOR RECESSED PAVEMENT MARKING, LETTERS AND SYMBOLS	SQ FT	44	44				
* 78011035	GROOVING FOR RECESSED PAVEMENT MARKING 7"	FOOT	4984	4984				
78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	2492	2492				
X5030250	BRIDGE DECK GROOVING (LONGITUDINAL)	SQ YD	3415		851	1144	742	678
X5110310	SLOPE WALL REPAIR	SQ YD	228		66	82		80
X5110312	SLOPE WALL SLURRY PUMPING	CU YD	75		20	5	37	13
X5537800	STORM SEWERS TO BE CLEANED 12"	FOOT	582	582				
X7011800	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21	L SUM	1	1				
Z0001899	JACK AND REMOVE EXISTING BEARINGS	EACH	64		16	20	14	14

* SPECIALTY ITEM

REV - MS



USER NAME = atn	DESIGNED - ATN	REVISED -
ESCA PROJECT NO. = 1445.01	DRAWN - ATN	REVISED -
	CHECKED - ELH	REVISED -
PLOT DATE = 1/16/2026	DATE - 01/26	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NONE SHEET 4 OF 5 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	D7 BRIDGE REPAIRS 2026-3	MACON	108	6
CONTRACT NO. 74D08				
ILLINOIS FED. AID PROJECT				

MODEL: Summary Of Quantities Sheet 5
FILE NAME: Y:\DOT\1445-01_74D08\74D08 DESIGN\CADD\Highway\CADD Sheets\ID774D08-sh1-SQG.dgn

SUMMARY OF QUANTITIES				90% FEDERAL 10% STATE	90% FEDERAL 10% STATE	90% FEDERAL 10% STATE	90% FEDERAL 10% STATE	90% FEDERAL 10% STATE
				ROADWAY	STRUCTURE	STRUCTURE	STRUCTURE	STRUCTURE
				CONSTRUCTION CODE				
				0006 ROADWAY	0047 SN 058-0068	0047 SN 058-0069	0047 SN 058-0070	0047 SN 058-0071
CODE NO.	ITEM	UNIT	TOTAL QUANTITY					
Z0007101	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 1	L SUM	1				1	
Z0007102	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 2	L SUM	1					1
Z0010501	CLEANING AND PAINTING STEEL BRIDGE NO. 1	L SUM	1				1	
Z0010502	CLEANING AND PAINTING STEEL BRIDGE NO. 2	L SUM	1					1
Z0010615	CLEANING EXISTING INLETS	EACH	16	16				
53101209	BRIDGE DECK FLY ASH OR GGBF SLAG CONCRETE OVERLAY, 2 1/2"	SQ YD	4789		1244	1519	1043	983
53101008	BRIDGE DECK SCARIFICATION 2 1/4"	SQ YD	4789		1244	1519	1043	983
53212754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	949.8		274.9	263.9	197	214
53016001	DECK SLAB REPAIR (FULL DEPTH, TYPE I)	SQ YD	54		10	11	14	19
53016002	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	361		65	145	89	62
Z0021700	EXPANSION JOINT REHABILITATION	FOOT	599	599				
Z0029090	DIAMOND GRINDING (BRIDGE SECTION)	SQ YD	4586		1194	1482	987	923
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1				

REV - MS



USER NAME = atn	DESIGNED - ATN	REVISED -
ESCA PROJECT NO. = 1445.01	DRAWN - ATN	REVISED -
	CHECKED - ELH	REVISED -
PLOT DATE = 1/16/2026	DATE - 01/26	REVISED -

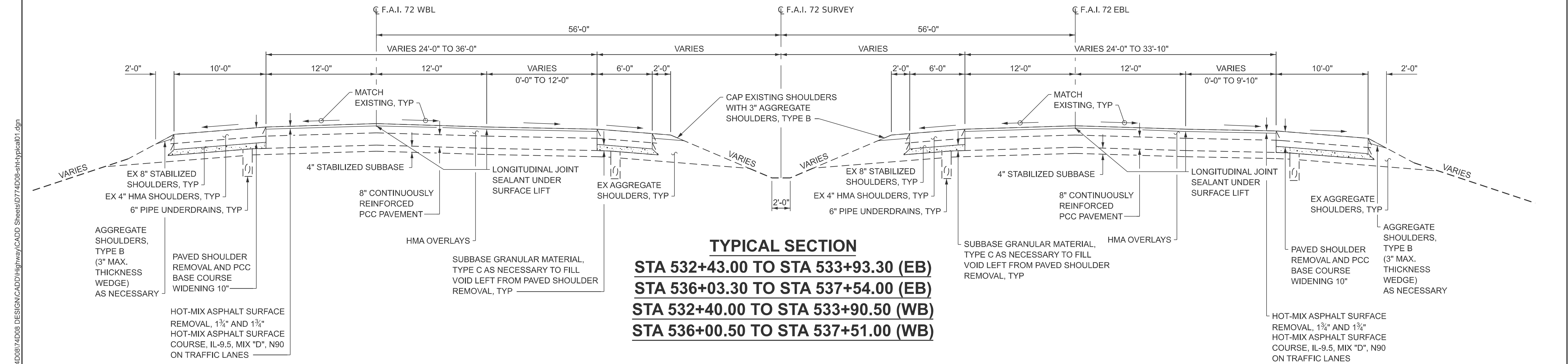
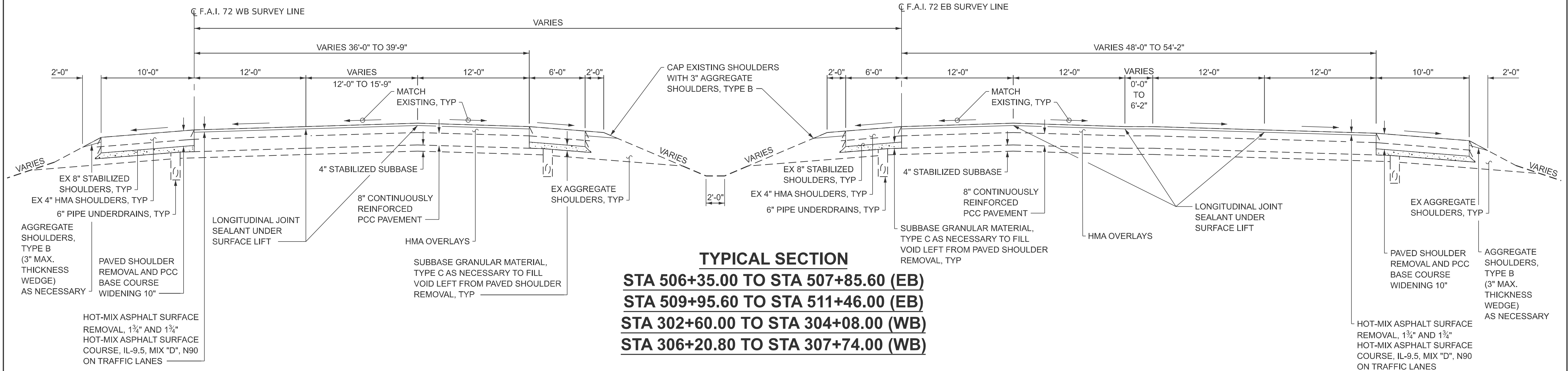
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	D7 BRIDGE REPAIRS 2026-3	MACON	108	7
CONTRACT NO. 74D08				
ILLINOIS FED. AID PROJECT				

MODEL - Existing Typical Section
FILE NAME - Y:\DOT11445-01_74D08\74D08 DESIGN\CADD\Highway\CADD Sheets\ID774D08-shr-typical01.dgn



- NOTES:
- EXISTING GUARDRAIL NOT SHOWN.
 - STATIONING IS BASED ON OLD PLANS.



USER NAME	= nhc	DESIGNED -	ATN	REVISED -	
ESCA PROJECT NO.	= 1445.01	DRAWN -	ATN/NHC	REVISED -	
		CHECKED -	ELH	REVISED -	
PLOT DATE	= 9/17/2025	DATE -	01/26	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-72
TYPICAL SECTIONS

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	D7 BRIDGE REPAIRS 2026-3	MACON	108	8
CONTRACT NO. 74D08				
ILLINOIS FED. AID PROJECT				

MODEL: SCHEDULE SHEET 1
FILE NAME: Y:\DOT11445-01_74D08\74D08 DESIGN\CADD\Highway\CADD Sheets\ID774D08-shit-schedule01.dgn

DRAINAGE SCHEDULE		
LOCATION	CLEANING EXISTING INLETS	STORM SEWERS TO BE CLEANED 12"
	EACH	FOOT
SN 058-0068		
CENTER OF BRIDGE		50
SOUTHWEST QUADRANT	2	2
SOUTHEAST QUADRANT	2	86
SN 058-0069		
CENTER OF BRIDGE		66
SOUTHWEST QUADRANT	2	2
SOUTHEAST QUADRANT	2	84
SN 058-0070		
CENTER OF BRIDGE		40
NORTHWEST QUADRANT	2	101
NORTHEAST QUADRANT	2	2
SN 058-0071		
CENTER OF BRIDGE		40
NORTHWEST QUADRANT	2	2
NORTHEAST QUADRANT	2	107
TOTALS	16	582

GUARDRAIL SCHEDULE	
LOCATION	REMOVE AND REERECT RAIL ELEMENT OF EXISTING GUARDRAIL
	FOOT
SN 058-0068	
NORTHWEST QUADRANT	272
NORTHEAST QUADRANT	162
SN 058-0069	
SOUTHWEST QUADRANT	247
SOUTHEAST QUADRANT	248
SN 058-0070	
NORTHWEST QUADRANT	272
NORTHEAST QUADRANT	247
SN 058-0071	
SOUTHWEST QUADRANT	247
SOUTHEAST QUADRANT	162
TOTAL	1857

STAGE CONSTRUCTION SCHEDULE					
LOCATION	TEMPORARY CONCRETE BARRIER	RELOCATE TEMPORARY CONCRETE BARRIER	PINNING TEMPORARY CONCRETE BARRIER	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3 EACH	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3 EACH
	FOOT	FOOT	EACH		
EASTBOUND					
STAGE I (SN 058-0069)	600		6	1	
STAGE I (SN 058-0071)	500		6	1	
STAGE II (SN 058-0069)		637.5	6		1
STAGE II (SN 058-0071)		525	6		1
WESTBOUND					
STAGE I (SN 058-0068)	550		6	1	
STAGE I (SN 058-0070)	525		6	1	
STAGE II (SN 058-0068)		512.5	6		1
STAGE II (SN 058-0070)		450	6		1
TOTALS	2175	2125	48	4	4

PAVING SCHEDULE					
LOCATION	HOT-MIX ASPHALT SURFACE REMOVAL, 1¾"	HOT-MIX ASPHALT, IL -9.5, MIX "D", N90	BITUMINOUS MATERIALS (TACK COAT)	LONGITUDINAL JOINT SEALANT	EXPANSION JOINT REHABILITATION
	SQ YD	TON	POUND	FOOT	FOOT
SN 058-0068					
SOUTH SIDE AREA	639	63	287	296	79
NORTH SIDE AREA	604	59	272	306	74
SN 058-0069					
SOUTH SIDE AREA	873	85	393	452	109
NORTH SIDE AREA	762	75	343	451	90
SN 058-0070					
SOUTH SIDE AREA	583	57	262	301	72
NORTH SIDE AREA	477	47	215	151	57
SN 058-0071					
SOUTH SIDE AREA	545	53	245	303	68
NORTH SIDE AREA	427	42	192	151	50
TOTALS	4910	481	2209	2411	599

SHOULDER SCHEDULE					
LOCATION	PORTLAND CEMENT CONCRETE BASE COURSE WIDENING 10"	PAVED SHOULDER REMOVAL	SHOULDER RUMBLE STRIPS, 16"	SUBBASE GRANULAR MATERIAL, TYPE C	AGGREGATE SHOULDERS, TYPE B
	SQ YD	SQ YD	FOOT	TON	TON
STAGE I					
EASTBOUND					
STA 494+10 TO STA 502+90, RT	1115	1115	890	114	17
STA 502+90 TO STA 506+49, RT	466	466		53	
STA 794+25 TO STA 798+99, RT	333	333		38	
STA 504+67 TO STA 507+80, RT	335	335	309	39	6
STA 509+98 TO STA 522+00, RT	1370	1370	1203	153	23
STA 532+43 TO STA 533+93, RT	178	178	150	19	3
STA 536+16 TO STA 542+54, RT	790	790	638	81	12
WESTBOUND					
STA 302+60 TO STA 303+94, LT	147	147	134	17	3
STA 306+20 TO STA 310+79, LT	511	511	460	59	9
STA 528+90 TO STA 533+90, LT	556	556	501	64	10
STA 536+14 TO STA 542+51, LT	707	707	637	81	12
STAGE II					
EASTBOUND					
STA 789+56 TO STA 802+88, LT	887	887	1330	102	64
STA 499+00 TO STA 507+72, LT	581	581	871	67	42
STA 509+97 TO STA 515+38, LT	362	362	543	42	26
STA 529+00 TO STA 533+93, RT	328	328	492	38	24
STA 536+16 TO STA 540+94, RT	318	318	478	37	23
WESTBOUND					
STA 302+60 TO STA 304+01, RT	94	94	141	11	7
STA 306+27 TO STA 307+74, RT	98	98	147	11	7
STA 532+40 TO STA 533+90, LT	101	101	150	12	7
STA 536+14 TO STA 540+94, LT	320	320	480	37	23
TOTALS	9597	9597	9554	1075	318



USER NAME = atn	DESIGNED - ATN	REVISED -
ESCA PROJECT NO. = 1445.01	DRAWN - ATN	REVISED -
	CHECKED - ELH	REVISED -
PLOT DATE = 9/16/2025	DATE - 01/26	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULES OF QUANTITIES

SCALE: NONE	SHEET 1 OF 3 SHEETS	STA. TO STA.
-------------	--------------------------------	---------------------------------

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	D7 BRIDGE REPAIRS 2026-3	MACON	108	9
CONTRACT NO. 74D08				
		ILLINOIS	FED. AID PROJECT	

MODEL- SCHEDULE SHEET 2
FILE NAME: Y:\IDOT\1445-01_74D08\74D08 DESIGN\CADD\Highway\CADD Streets\ID774D08-shit-schedule01.dgn

STAGE I TEMPORARY PAVEMENT MARKING SCHEDULE		
LOCATION	TEMPORARY PAVEMENT MARKING ①	
	FOOT	
	YELLOW	WHITE
STAGE I		
EASTBOUND		
STA 483+60.10, 0.00' TO STA 502+38.27, 28.62' RT	1884	
STA 502+38.27, 28.62' RT TO STA 505+49.02, 28.62' RT	313	
STA 505+49.02, 28.62' RT TO STA 507+35.81, 29.63' RT	187	
STA 507+35.81, 29.63' RT TO STA 510+48.41, 29.63' RT	312	
STA 510+48.41, 29.63' RT TO STA 513+63.77, 27.27' RT	316	
STA 513+63.77, 27.27' RT TO STA 515+49.02, 24.00' RT	185	
STA 515+49.02, 24.00' RT TO STA 527+42.77, 24.00' RT	1195	
STA 527+42.77, 24.00' RT TO STA 533+42.68, 63.75' RT	600	
STA 533+42.68, 63.75' RT TO STA 536+55.26, 63.75' RT	313	
STA 494+10.29, 24.00' RT TO STA 499+81.35, 34.00' RT		576
STA 499+81.35, 34.00' RT TO STA 502+37.95, 40.62' RT		260
STA 502+37.95, 40.62' RT TO STA 505+49.02, 40.63' RT		315
STA 505+49.02, 40.63' RT TO STA 507+86.34, 44.54' RT		238
STA 507+86.34, 44.54' RT TO STA 509+97.55, 42.45' RT		211
STA 509+97.55, 42.45' RT TO STA 510+48.41, 41.68' RT		51
STA 795+85.00, 0.00' TO STA 503+69.38, 52.66' RT	779	
STA 503+69.38, 52.66' RT TO STA 507+86.34, 44.54' RT	422	
STA 794+25.23, 39.90' RT TO STA 795+73.33, 24.00' RT		150
STA 794+63.44, 51.23' RT TO STA 798+73.33, 25.24' RT		410
STA 798+73.33, 25.24' RT TO STA 799+98.91, 26.00' RT		126
STA 799+98.91, 26.00' RT TO STA 507+86.65, 59.47' RT		788
STA 507+86.65, 59.47' RT TO STA 509+97.55, 55.28' RT		211
STA 509+97.55, 55.28' RT TO STA 522+00.00, 36.00' RT		1203
STA 527+42.77, 36.00' RT TO STA 533+92.76, 75.75' RT		650
STA 533+92.76, 75.75' RT TO STA 536+55.26, 75.75' RT		263
STA 536+55.26, 75.75' RT TO STA 542+53.57, 68.00' RT		599
WESTBOUND		
STA 303+61.22, 0.17' LT TO STA 304+05.85, 0.17' LT		46
STA 304+05.85, 0.17' LT TO STA 306+20.22, 0.17' LT		214
STA 306+20.22, 0.17' LT TO STA 310+79.33, 0.00'		458
STA 528+90.28, 68.00' LT TO STA 533+90.00, 73.00' LT		501
STA 533+90.00, 73.00' LT TO STA 536+01.00, 73.00' LT		211
STA 536+01.00, 73.00' LT TO STA 542+50.98, 68.00' LT		650
STA 303+61.22, 11.83' RT TO STA 306+73.89, 11.83' RT	313	
STA 306+73.89, 11.83' RT TO STA 310+79.33, 12.00' RT	406	
STA 310+79.33, 12.00' RT TO STA 528+90.28, 56.00' LT	1451	
STA 528+90.28, 56.00' LT TO STA 533+38.50, 61.00' LT	450	
STA 533+38.50, 61.00' LT TO STA 536+51.00, 61.00' LT	313	
STA 536+51.00, 61.00' LT TO STA 541+50.84, 56.00' LT	500	
STA 541+50.84, 56.00' LT TO STA 545+99.48, 44.00' LT	450	
SUBTOTALS	10389	8131
TOTAL	18520	

① NOT A PAY ITEM - COST INCLUDED IN TRAFFIC CONTROL AND PROTECTION, STANDARD 701402, FOR INFORMATION ONLY

STAGE II TEMPORARY PAVEMENT MARKING SCHEDULE		
LOCATION	TEMPORARY PAVEMENT MARKING ①	
	FOOT	
	YELLOW	WHITE
STAGE II		
EASTBOUND		
STA 499+00.00, 0.00' TO STA 505+42.02, 5.00' LT	641	
STA 505+42.02, 5.00' LT TO STA 509+96.74, 5.00' LT	454	
STA 509+96.74, 5.00' LT TO STA 515+38.36, 0.00'	454	
STA 529+00.00, 44.00' RT TO STA 533+92.76, 42.75' RT	492	
STA 533+92.76, 42.75' RT TO STA 536+03.76, 42.75' RT	211	
STA 536+03.76, 42.75' RT TO STA 540+93.76, 44.00' RT	490	
STA 491+95.75, 24.00' RT TO STA 502+35.75, 7.81' RT		1046
STA 502+35.75, 7.81' RT TO STA 505+42.02, 7.81' RT		307
STA 505+42.02, 7.81' RT TO STA 507+32.63, 7.81' RT		191
STA 507+32.63, 7.81' RT TO STA 510+48.36, 7.81' RT		316
STA 789+56.46, 0.00' TO STA 794+91.65, 2.91' LT	535	
STA 794+91.65, 2.91' LT TO STA 796+91.59, 2.91' LT	200	
STA 796+91.59, 2.91' LT TO STA 799+91.65, 4.44' LT	300	
STA 799+91.65, 4.44' LT TO STA 502+99.95, 40.62' RT	305	
STA 502+99.95, 40.62' RT TO STA 507+32.63, 7.81' RT	436	
STA 788+65.97, 24.00' RT TO STA 789+56.46, 23.15' RT		92
STA 789+56.46, 23.15' RT TO STA 794+91.65, 12.00' RT		534
STA 794+91.65, 12.00' RT TO STA 796+91.59, 12.00' RT		200
STA 794+61.82, 35.31' RT TO STA 796+91.59, 12.00' RT	231	
STA 794+63.44, 51.23' RT TO STA 799+91.65, 11.15' RT		529
STA 799+91.65, 11.15' RT TO STA 502+99.95, 55.93' RT		305
STA 502+99.95, 55.93' RT TO STA 507+35.63, 20.63' RT		441
STA 507+35.63, 20.63' RT TO STA 510+48.36, 20.63' RT		312
STA 510+48.36, 20.63' RT TO STA 514+38.36, 24.00' RT		390
STA 514+38.36, 24.00' RT TO STA 515+38.36, 22.46' RT		100
STA 515+38.36, 22.46' RT TO STA 522+18.36, 12.00' RT		680
STA 522+18.36, 12.00' RT TO STA 529+00.00, 56.00' RT		683
STA 529+00.00, 56.00' RT TO STA 533+42.66, 54.75' RT		441
STA 533+42.66, 54.75' RT TO STA 536+55.26, 54.75' RT		313
WESTBOUND		
STA 303+61.84, 20.83' RT TO STA 306+74.42, 20.83' RT		313
STA 306+74.42, 20.83' RT TO STA 310+79.33, 19.83' RT		405
STA 310+79.33, 19.83' RT TO STA 528+90.28, 48.16' LT		1452
STA 528+90.28, 48.16' LT TO STA 533+38.50, 52.00' LT		439
STA 533+38.50, 52.00' LT TO STA 536+51.00, 52.00' LT		313
STA 536+51.00, 52.00' LT TO STA 541+51.08, 56.00' LT		500
STA 541+51.08, 56.00' LT TO STA 546+94.50, 68.00' LT		546
STA 298+71.22, 49.49' RT TO STA 304+14.03, 32.23' RT	543	
STA 304+14.03, 32.23' RT TO STA 306+27.74, 32.83' RT	214	
STA 306+27.74, 32.83' RT TO STA 311+18.96, 36.00' RT	491	
STA 529+00.00, 32.00' LT TO STA 533+90.00, 40.00' RT	490	
STA 533+90.00, 40.00' LT TO STA 536+01.00, 40.00' LT	213	
STA 536+01.00, 40.00' LT TO STA 540+93.76, 44.00' LT	491	
SUBTOTALS	7191	10848
TOTAL	18039	

① NOT A PAY ITEM - COST INCLUDED IN TRAFFIC CONTROL AND PROTECTION, STANDARD 701402, FOR INFORMATION ONLY

MODEL - SCHEDULE SHEET 3
FILE NAME: Y:\DOT11445-01_74D08\74D08 DESIGN\CADD\Highway\CADD Sheets\ID774D08-shl-scheduled1.dgn

PAVEMENT MARKING SCHEDULE										
LOCATION	DESCRIPTION	PREFORMED PLASTIC PAVEMENT MARKING, TYPE - D - STANDARD - LINE 6"		TEMPORARY PAVEMENT MARKING - LINE 6" - PAINT		PAVEMENT MARKING REMOVAL - WATER BLASTING	SHORT TERM PAVEMENT MARKING		SHORT TERM PAVEMENT MARKING REMOVAL	GROOVING FOR RECESSED PAVEMENT MARKING 7"
		FOOT		FOOT		SQ FT	FOOT		SQ FT	FOOT
EASTBOUND		YELLOW	WHITE	YELLOW	WHITE		YELLOW	WHITE		
STA 506+35.00, 0.00' TO STA 511+46.00, 0.00'	EDGE LINE	511		511		255	12		4.0	511
STA 506+35.00, 55.33' RT TO STA 511+46.00, 44.05' RT	EDGE LINE		511		511	256		12	4.0	511
STA 506+35.00, 24.00' RT TO STA 506+49.02, 24.00' RT	EDGE LINE		14		14	7				14
STA 506+35.00, 26.00' RT TO STA 506+49.02, 26.00' RT	EDGE LINE		14		14	7				14
STA 506+49.02, 24.00' RT TO STA 506+49.02, 26.00' RT	EDGE LINE		2		2	1				2
STA 532+43.00, 44.00' RT TO STA 537+54.00, 44.00' RT	EDGE LINE	511		511		255	12		4.0	511
STA 532+43.00, 78.12' RT TO STA 537+54.00, 68.00' RT	EDGE LINE		511		511	256		12	4.0	511
STA 506+35.00, 12.00' RT TO STA 511+46.00, 12.00' RT	CENTER LINE SKIP DASH		130		130	65		52	17.4	130
STA 506+49.02, 24.00' RT TO STA 511+46.00, 24.00' RT	CENTER LINE SKIP DASH		130		130	65		52	17.4	130
STA 532+43.00, 56.00' RT TO STA 537+54.00, 56.00' RT	CENTER LINE SKIP DASH		130		130	65		52	17.4	130
STA 532+43.00 , 68.25' RT TO STA 533+93.30, 68.00' RT	CENTER LINE SKIP DASH		40		40	20		16	5.3	40
WESTBOUND										
STA 302+60.00, 0.00' TO STA 307+74.00, 0.00'	EDGE LINE	514		514		257	12		4.0	514
STA 302+60.00, 40.00' RT TO STA 307+74.00, 36.13' RT	EDGE LINE		514		514	257		12	4.0	514
STA 532+40.00, 32.00' LT TO STA 537+51.00, 40.17' LT	EDGE LINE		511		511	255		12	4.0	511
STA 532+40.00, 68.00' LT TO STA 537+51.00, 68.00' LT	EDGE LINE	511		511		256	12		4.0	511
STA 302+60.00, 12.00' RT TO STA 307+74.00, 12.00' RT	CENTER LINE SKIP DASH		130		130	65		52	17.4	130
STA 302+60.00, 27.71' RT TO STA 307+74.00, 25.38' RT	CENTER LINE SKIP DASH		130		130	65		52	17.4	130
STA 532+40.00, 44.00' LT TO STA 533+90.50, 43.81' LT	CENTER LINE SKIP DASH		40		40	20		16	5.3	40
STA 532+40.00, 56.00' LT TO STA 537+51.00, 56.03' LT	CENTER LINE SKIP DASH		130		130	65		52	17.4	130
	SUBTOTALS	2047	2937	2047	2937		48	392		
	TOTALS	4984		4984		2492	440		147.0	4984

PAVEMENT MARKING BLACKOUT TAPE SCHEDULE				
LOCATION	DESCRIPTION	PAVEMENT MARKING BLACKOUT TAPE, 7"	PAVEMENT MARKING BLACKOUT TAPE, 9"	SHORT TERM PAVEMENT MARKING REMOVAL
STAGE I		FOOT	FOOT	SQ FT
EASTBOUND				
STA 483+60.10 TO STA 495+12.70	CENTER LINE SKIP DASH	290		169.2
STA 494+10.29 TO STA 500+62.98	EDGE LINE	657		383.3
STA 503+53.91 TO STA 506+48.64	EDGE LINE		362	271.5
STA 503+63.92	EX MERGE ARROW	50		29.2
STA 794+25.23 TO STA 798+99.07	EDGE LINE		475	356.3
STA 795+73.33 TO STA 798+99.07	EDGE LINE		326	244.5
STA 795+85.00 TO STA 803+74.31	CENTERLINE	200		116.7
STA 798+99.07 TO STA 806+36.08	RAMP STRIPING SKIP DASH	246		143.5
STA 504+66.87 TO STA 522+00.00	EDGE LINE	1754		1023.2
STA 527+42.77 TO STA 533+92.76	CENTER LINE SKIP DASH	160		93.3
STA 527+42.77 TO STA 542+53.57	EDGE LINE	1511		881.4
WESTBOUND				
STA 302+60.00 TO STA 310+79.33	EDGE LINE	819		477.8
STA 528+90.28 TO STA 542+50.98	EDGE LINE	1362		794.5
STA 541+50.84 TO STA 545+99.48	CENTER LINE SKIP DASH	110		64.2
STAGE II				
EASTBOUND				
STA 491+95.75 TO STA 499+61.62	CENTER LINE SKIP DASH	200		116.7
STA 499+00.00 TO STA 507+85.45	EDGE LINE	885		516.3
STA 788+65.97 TO STA 795+85.00	CENTERLINE	180		105.0
STA 789+56.46 TO STA 805+40.38	EDGE LINE	1584		924.0
STA 504+51.08 TO STA 506+75.47	EDGE LINE		225	168.8
STA 794+61.82 TO STA 797+69.01	EDGE LINE		306	229.5
STA 795+77.10 TO STA 798+22.68	EDGE LINE		247	185.3
STA 506+49.82 TO STA 507+85.45	CENTER LINE SKIP DASH	30		17.5
STA 509+95.87 TO STA 515+38.36	EDGE LINE	543		316.8
STA 509+95.87 TO STA 522+18.36	CENTER LINE SKIP DASH	310		180.8
STA 529+00.00 TO STA 533+92.76	EDGE LINE	492		287.0
STA 536+03.76 TO STA 540+93.76	EDGE LINE	490		285.8
WESTBOUND				
STA 303+61.84 TO STA 304+11.66	CENTER LINE SKIP DASH	10		5.9
STA 306+25.23 TO STA 533+90.00	CENTER LINE SKIP DASH	600		350.0
STA 538+04.10 TO STA 540+93.76	EDGE LINE	290		169.2
STA 541+51.08 TO STA 546+94.50	CENTER LINE SKIP DASH	140		81.8
	TOTALS	12913	1941	8989.0



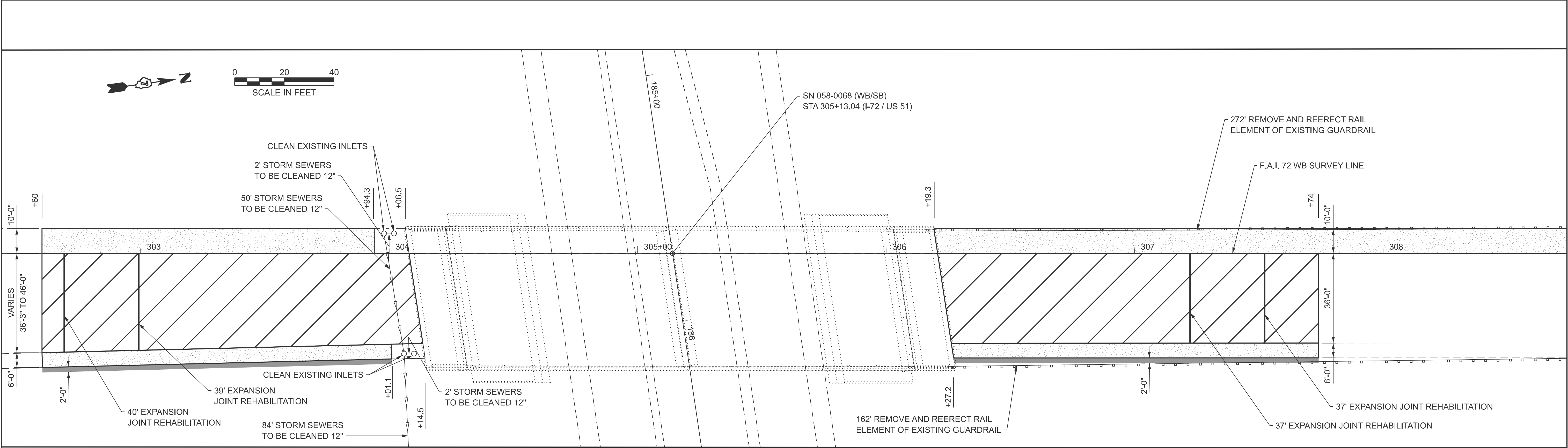
USER NAME = atn	DESIGNED - ATN	REVISED -
ESCA PROJECT NO. = 1445.01	DRAWN - ATN	REVISED -
	CHECKED - ELH	REVISED -
PLOT DATE = 9/23/2025	DATE - 01/26	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULES OF QUANTITIES

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

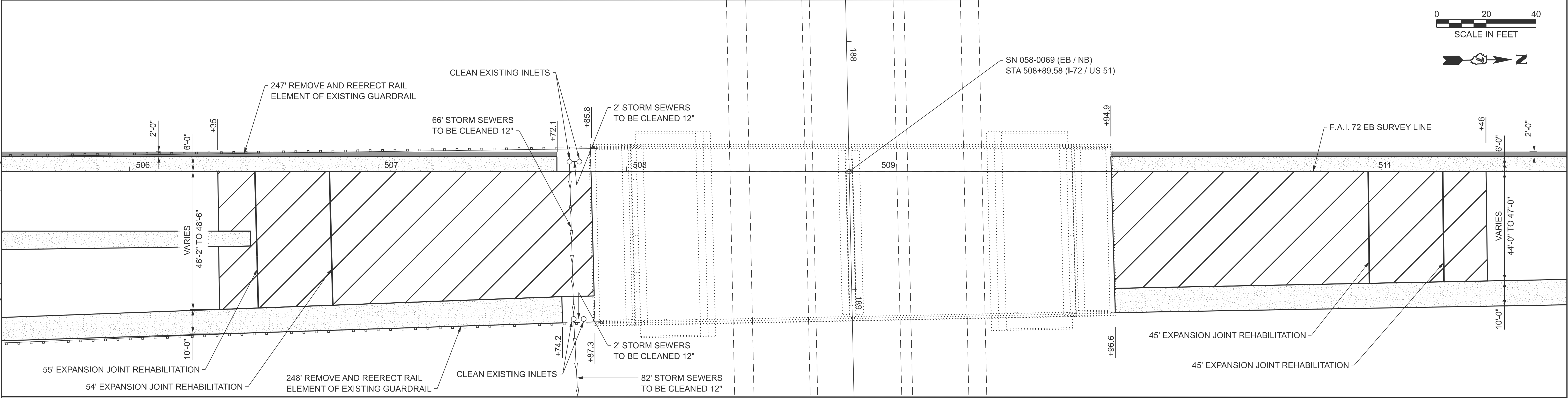
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	D7 BRIDGE REPAIRS 2026-3	MACON	108	11
CONTRACT NO. 74D08				
		ILLINOIS	FED. AID PROJECT	



LEGEND

-
-
-

SN 058-0068
PAVING PLAN



SN 058-0069
PAVING PLAN

MODEL: Paving Plan Sheet 1
FILE NAME: Y:\DOT11445-01_74D08\74D08 DESIGN\CADD\Highway\CADD Sheets\I774D08-sh1-plan01.dgn



USER NAME = atn	DESIGNED - ATN	REVISED -
ESCA PROJECT NO. = 1445.01	DRAWN - ATN/NHC	REVISED -
	CHECKED - ELH	REVISED -
PLOT DATE = 1/16/2026	DATE - 01/26	REVISED -

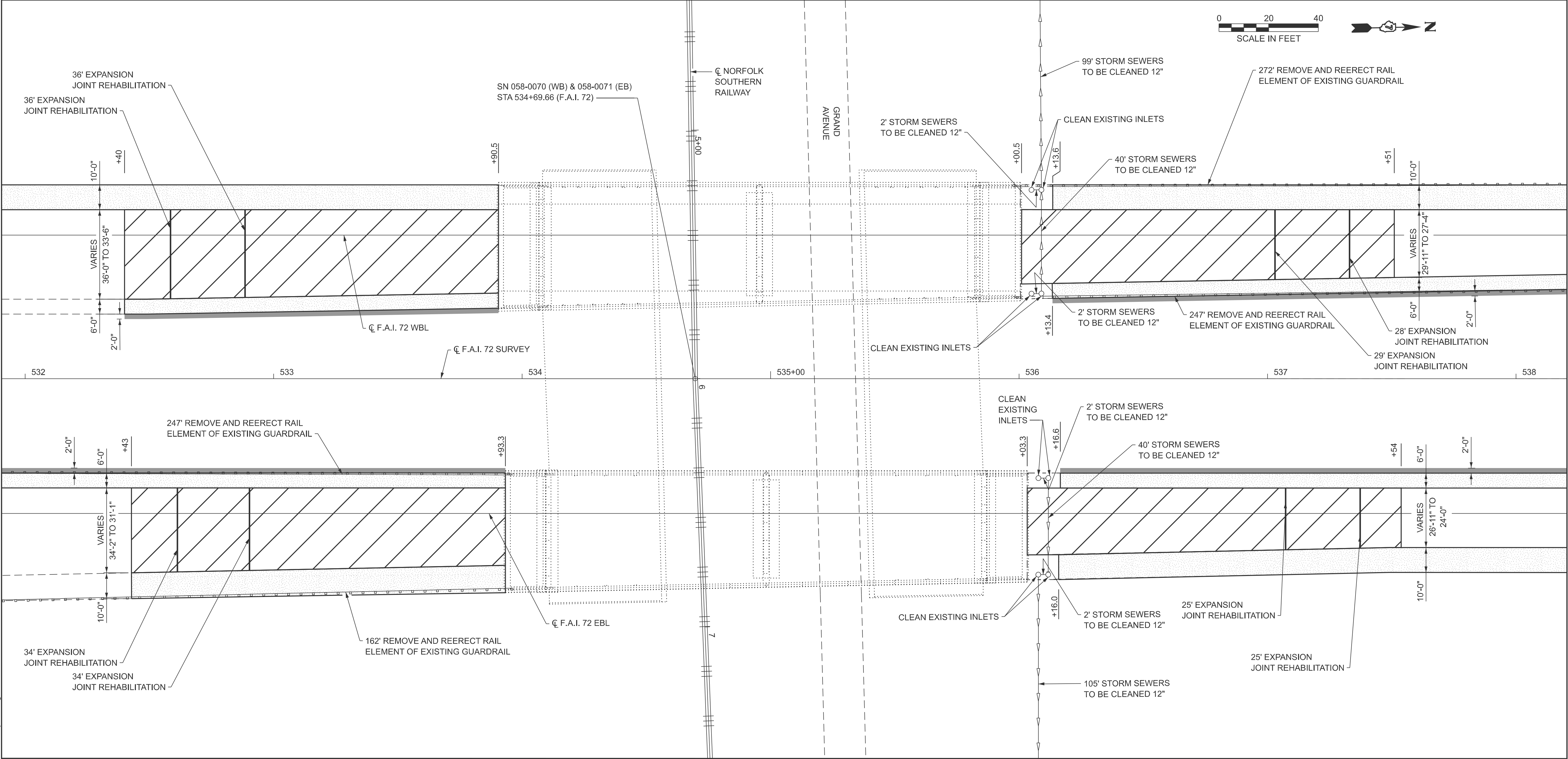
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-72
PAVING PLAN

SCALE: 1" = 50' SHEET 1 OF 2 SHEETS STA. TO STA.

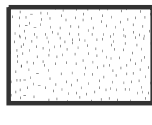
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	D7 BRIDGE REPAIRS 2026-3	MACON	108	12
CONTRACT NO. 74D08				
ILLINOIS FED. AID PROJECT				

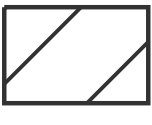
MODEL: Paving Plan Sheet 1
FILE NAME: Y:\DOT\1445-01_74D08\74D08 DESIGN\CADD\Highway\CADD Sheets\ID774D08-sh1-plan02.dgn



SN 058-0070 & SN 058-0071
PAVING PLAN

LEGEND

- 

PAVED SHOULDER REMOVAL & PORTLAND CEMENT CONCRETE BASE COURSE WIDENING, 10" SEE TRAFFIC CONTROL PLANS FOR LIMITS
- 

HOT-MIX ASPHALT SURFACE REMOVAL, 1¾" & 1¾" HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N90
- 

AGGREGATE SHOULDERS, TYPE B



USER NAME	= atn	DESIGNED	- ATN	REVISED	-
ESCA PROJECT NO.	= 1445.01	DRAWN	- ATN/NHC	REVISED	-
		CHECKED	- ELH	REVISED	-
PLOT DATE	= 1/14/2026	DATE	- 01/26	REVISED	-

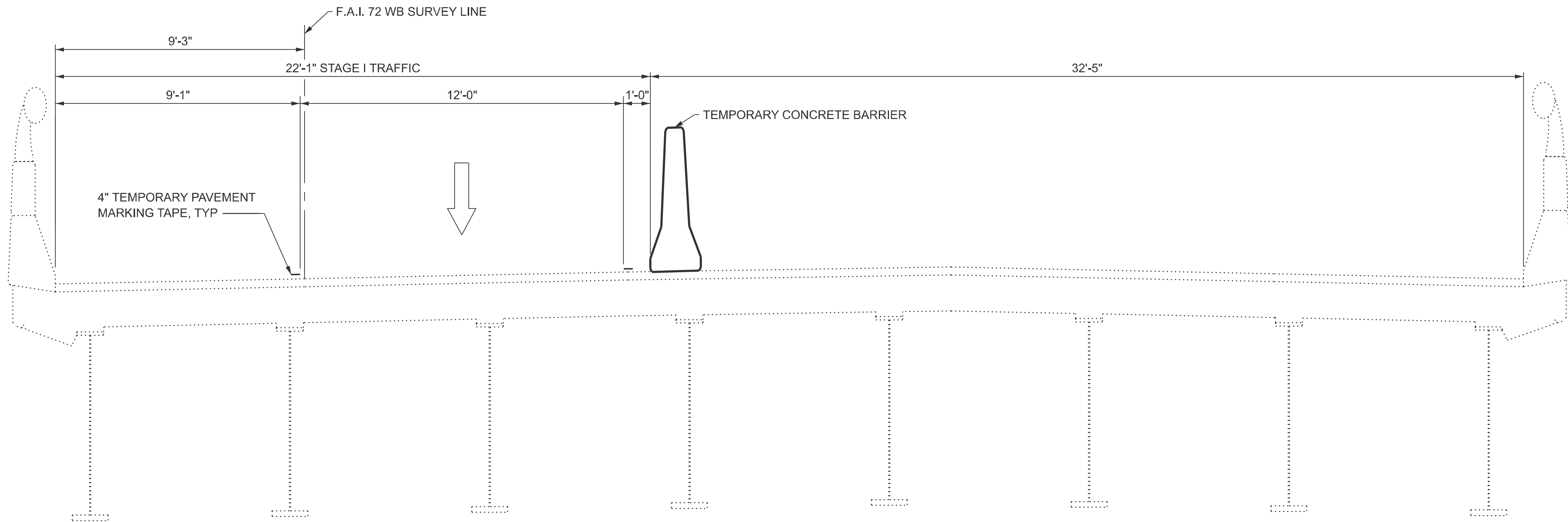
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-72
PAVING PLAN

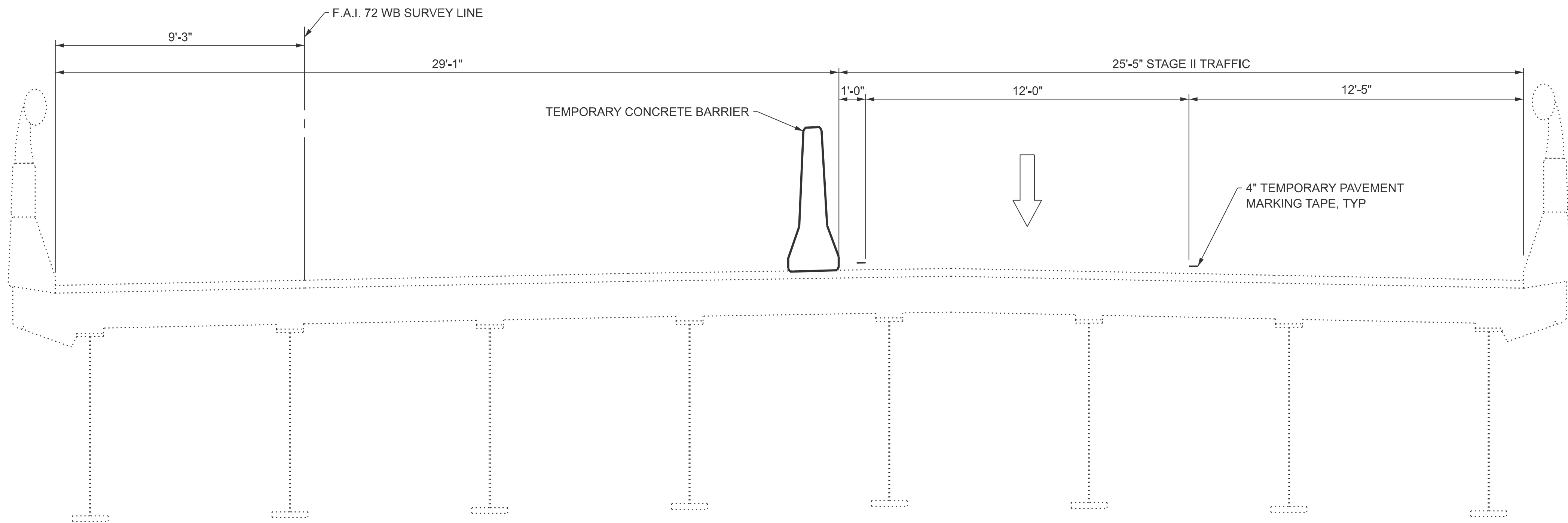
SCALE: 1" = 50' SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	D7 BRIDGE REPAIRS 2026-3	MACON	108	13
CONTRACT NO. 74D08				
ILLINOIS FED. AID PROJECT				

MODEL: Stage Construction Typical Sheet
FILE NAME: Y:\DOT\1445-01_74D08\74D08 DESIGN\CADD\Highway\CADD Sheets\ID774D08-shit-staging01.dgn



SN 058-0068 WB
STAGE I CONSTRUCTION
(LOOKING NORTH)



SN 058-0068 WB
STAGE II CONSTRUCTION
(LOOKING NORTH)



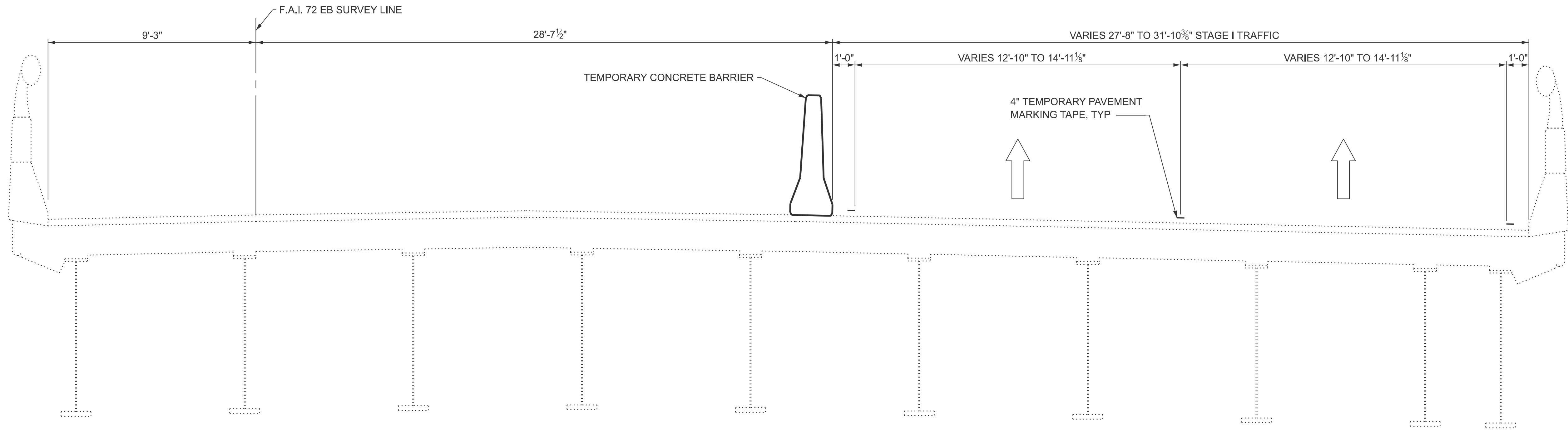
USER NAME	= atn	DESIGNED	-	ATN	REVISED	-
ESCA PROJECT NO.	= 1445.01	DRAWN	-	ATN	REVISED	-
		CHECKED	-	ELH	REVISED	-
PLOT DATE	= 7/18/2025	DATE	-	01/26	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

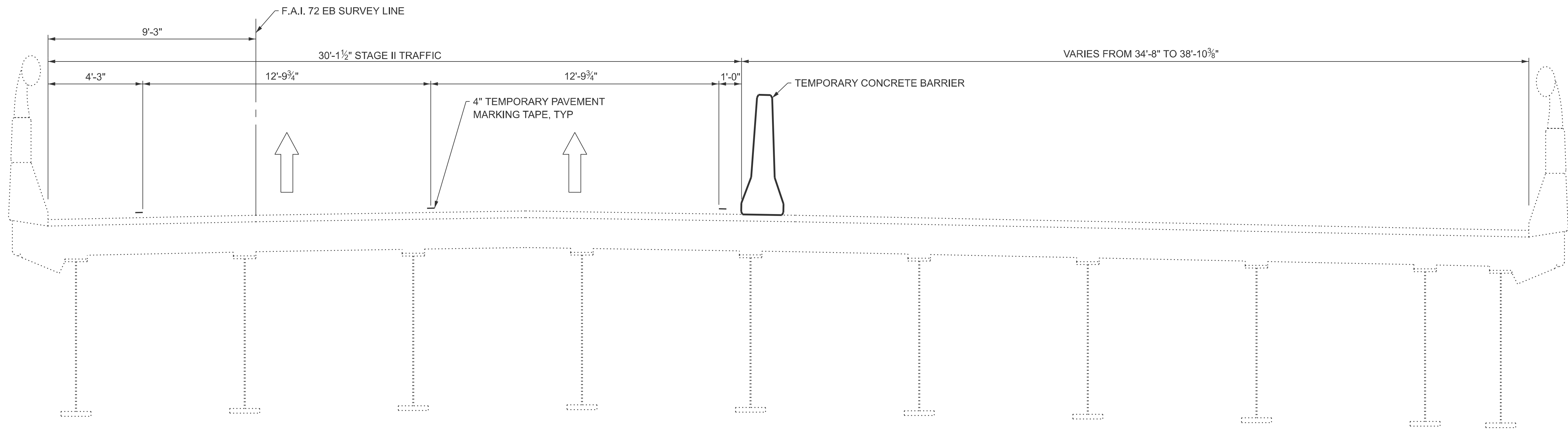
I-72
TRAFFIC CONTROL TYPICAL SECTIONS

SCALE: NONE SHEET 1 OF 4 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	D7 BRIDGE REPAIRS 2026-3	MACON	108	14
CONTRACT NO. 74D08				
ILLINOIS FED. AID PROJECT				



SN 058-0069 EB
STAGE I CONSTRUCTION
(LOOKING NORTH)



SN 058-0069 EB
STAGE II CONSTRUCTION
(LOOKING NORTH)

MODEL: Stage Construction Typical Sheet
FILE NAME: Y:\DOT\1445-01_74D08\74D08 DESIGN\CADD\Highway\CADD Sheets\ID774D08-shit-staging02.dgn



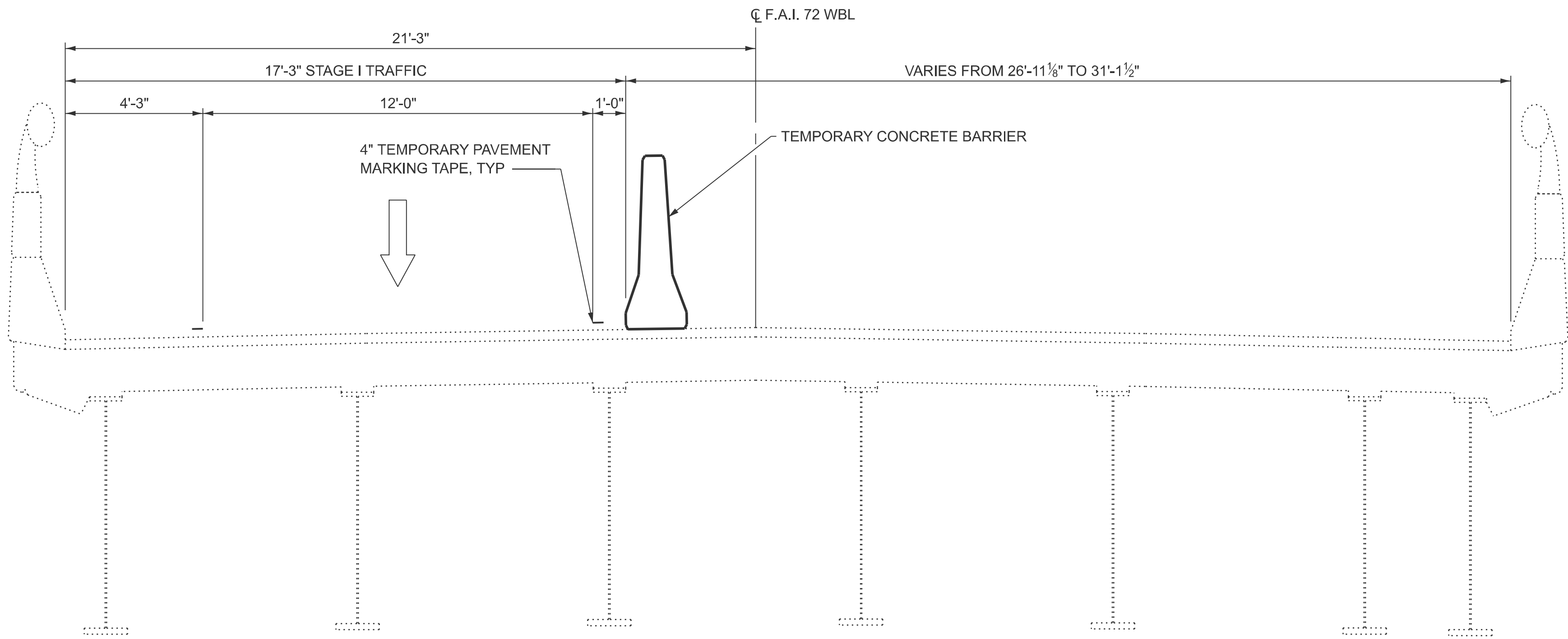
USER NAME	= atn	DESIGNED	-	ATN	REVISED	-	
ESCA PROJECT NO.	= 1445.01	DRAWN	-	ATN	REVISED	-	
		CHECKED	-	ELH	REVISED	-	
PLOT DATE	= 7/25/2025	DATE	-	01/26	REVISED	-	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

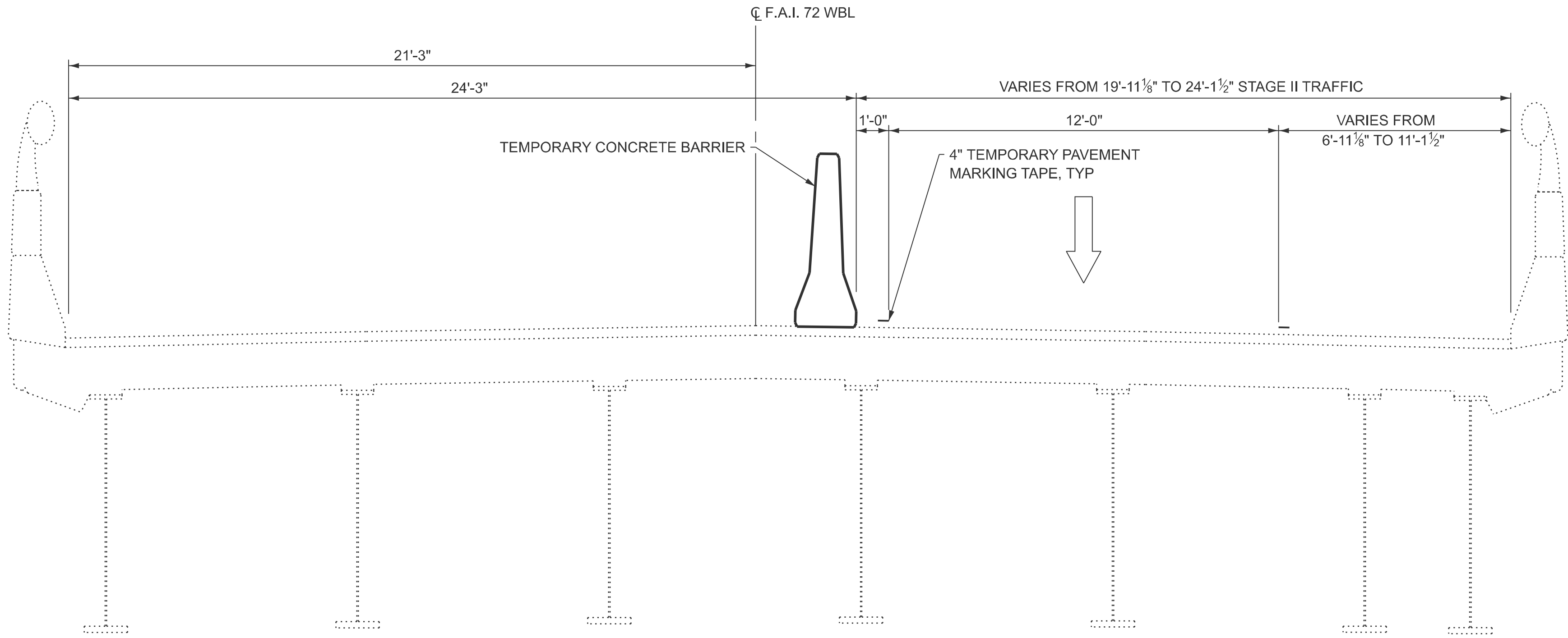
I-72
TRAFFIC CONTROL TYPICAL SECTIONS

SCALE: NONE SHEET 2 OF 4 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	D7 BRIDGE REPAIRS 2026-3	MACON	108	15
CONTRACT NO. 74D08				
ILLINOIS FED. AID PROJECT				



SN 058-0070 WB
STAGE I CONSTRUCTION
(LOOKING NORTH)



SN 058-0070 WB
STAGE II CONSTRUCTION
(LOOKING NORTH)

MODEL: Stage Construction Typical Sheet
FILE NAME: Y:\DOT\1445-01_74D08\74D08 DESIGN\CADD\Highway\CADD Sheets\ID774D08-shit-staging03.dgn

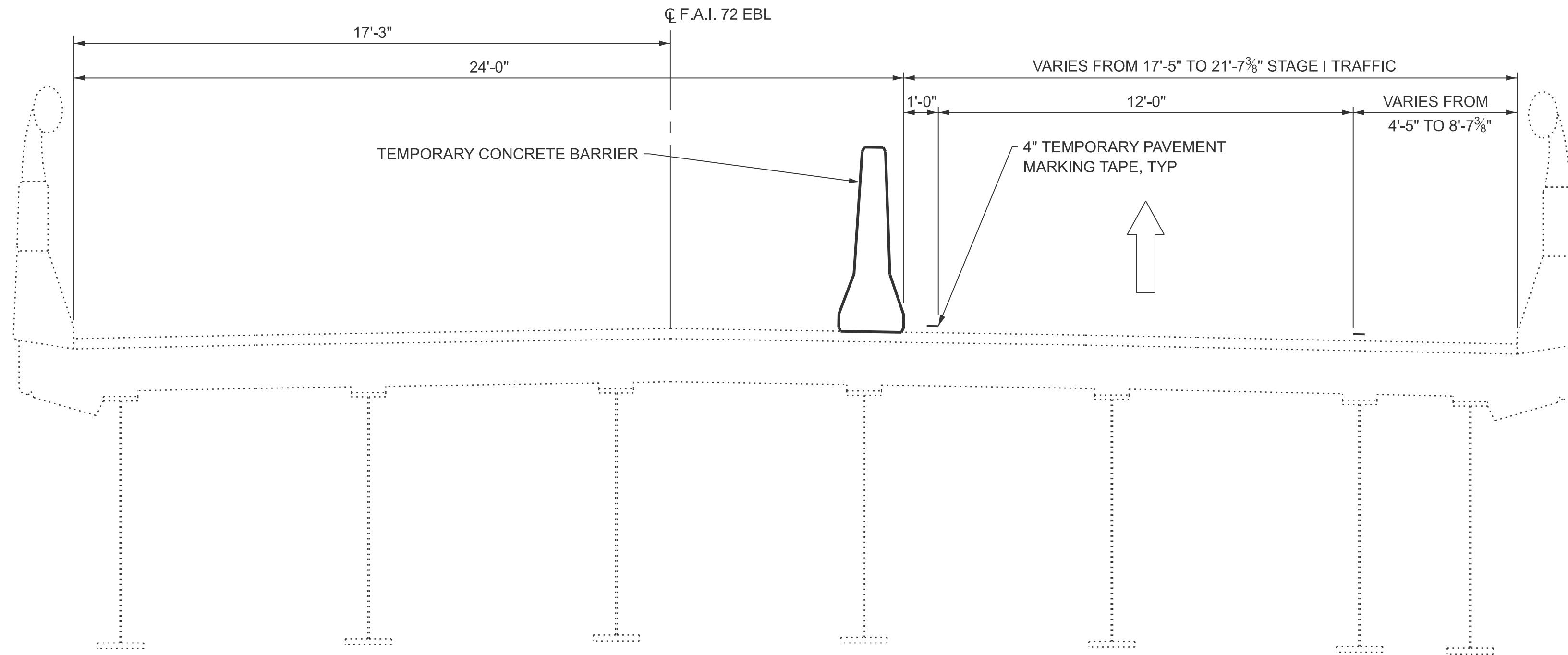


USER NAME = atn	DESIGNED - ATN	REVISED -
ESCA PROJECT NO. = 1445.01	DRAWN - ATN	REVISED -
	CHECKED - ELH	REVISED -
PLOT DATE = 7/25/2025	DATE - 01/26	REVISED -

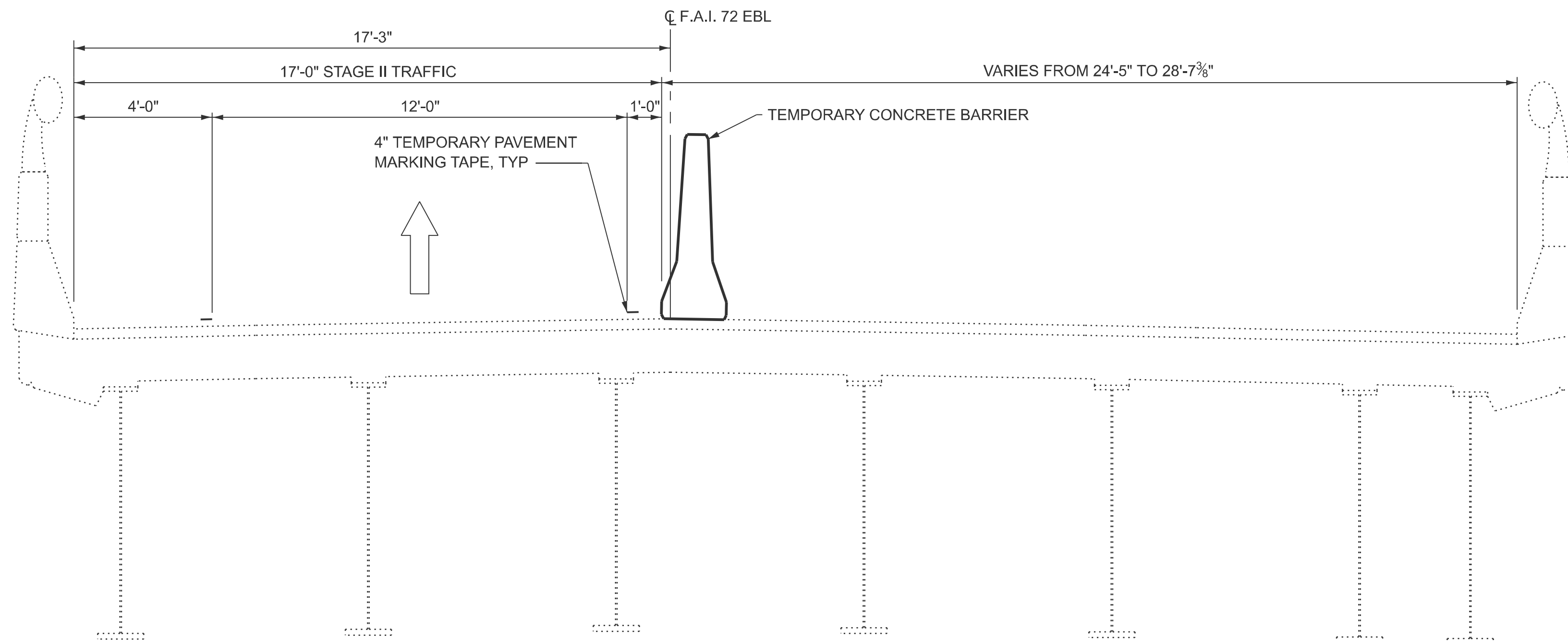
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-72 TRAFFIC CONTROL TYPICAL SECTIONS			
SCALE: NONE	SHEET 3 OF 4 SHEETS	STA.	TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	D7 BRIDGE REPAIRS 2026-3	MACON	108	16
CONTRACT NO. 74D08				
ILLINOIS FED. AID PROJECT				



SN 058-0071 EB
STAGE I CONSTRUCTION
(LOOKING NORTH)



SN 058-0071 EB
STAGE II CONSTRUCTION
(LOOKING NORTH)

MODEL: Stage Construction Typical Sheet
FILE NAME: Y:\DOT\1445-01_74D08\74D08 DESIGN\CADD\Highway\CADD Sheets\ID774D08-shit-staging04.dgn



USER NAME	= atn	DESIGNED	-	ATN	REVISED	-	
ESCA PROJECT NO.	= 1445.01	DRAWN	-	ATN	REVISED	-	
		CHECKED	-	ELH	REVISED	-	
PLOT DATE	= 9/10/2025	DATE	-	01/26	REVISED	-	

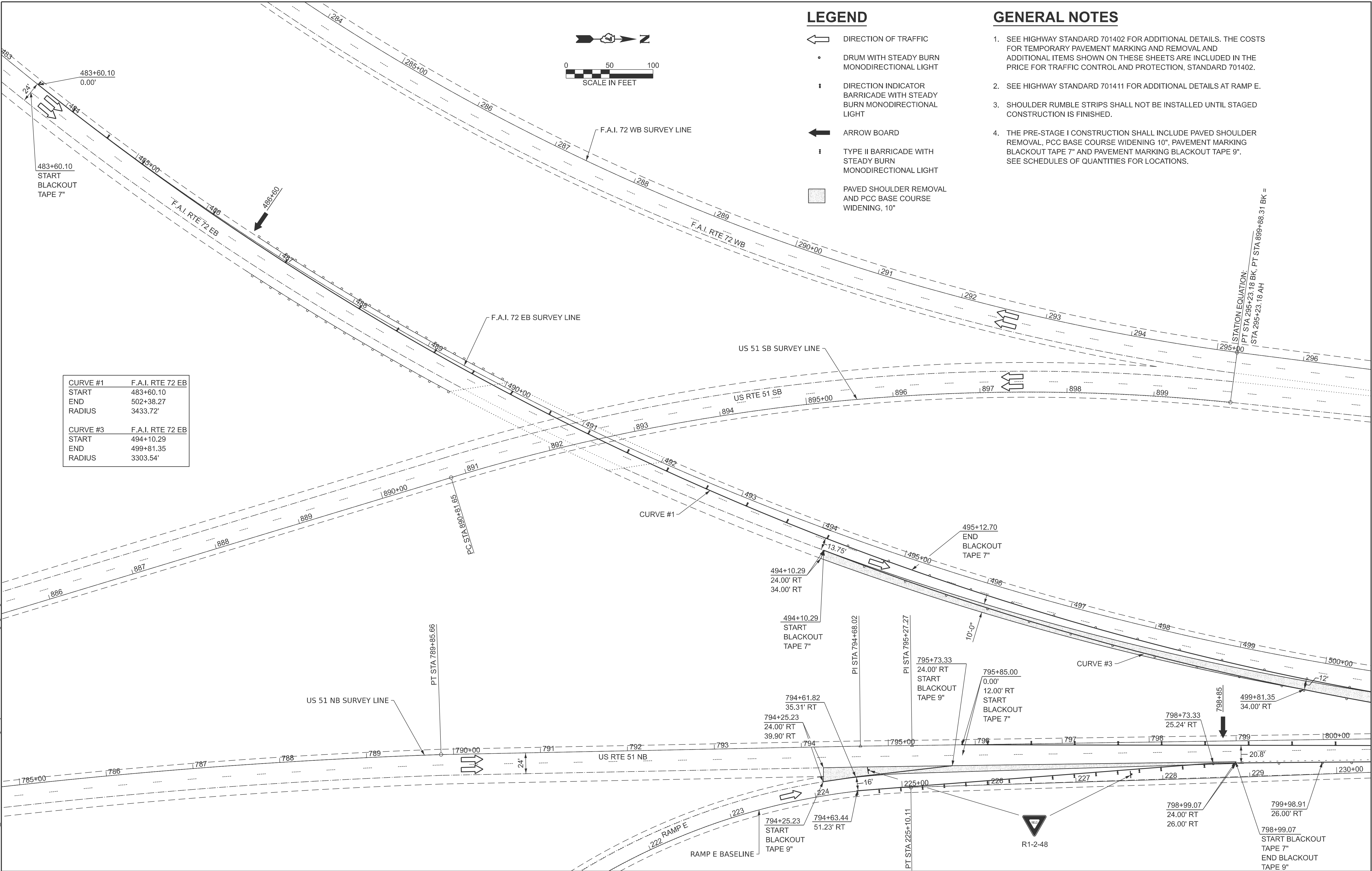
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-72
TRAFFIC CONTROL TYPICAL SECTIONS

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	D7 BRIDGE REPAIRS 2026-3	MACON	108	17
CONTRACT NO. 74D08				
ILLINOIS FED. AID PROJECT				

MODEL - Staging Sheet
FILE NAME - Y:\DOT11445-01_74D08\74D08 DESIGN\CADD\Highway\CADD Sheets\ID774D08-sh1-staging11.dgn



CURVE #1	F.A.I. RTE 72 EB
START	483+60.10
END	502+38.27
RADIUS	3433.72'
CURVE #3	F.A.I. RTE 72 EB
START	494+10.29
END	499+81.35
RADIUS	3303.54'

LEGEND

- DIRECTION OF TRAFFIC
 - DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT
 - DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
 - ARROW BOARD
 - TYPE II BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- PAVED SHOULDER REMOVAL AND PCC BASE COURSE WIDENING, 10"

GENERAL NOTES

- SEE HIGHWAY STANDARD 701402 FOR ADDITIONAL DETAILS. THE COSTS FOR TEMPORARY PAVEMENT MARKING AND REMOVAL AND ADDITIONAL ITEMS SHOWN ON THESE SHEETS ARE INCLUDED IN THE PRICE FOR TRAFFIC CONTROL AND PROTECTION, STANDARD 701402.
- SEE HIGHWAY STANDARD 701411 FOR ADDITIONAL DETAILS AT RAMP E.
- SHOULDER RUMBLE STRIPS SHALL NOT BE INSTALLED UNTIL STAGED CONSTRUCTION IS FINISHED.
- THE PRE-STAGE I CONSTRUCTION SHALL INCLUDE PAVED SHOULDER REMOVAL, PCC BASE COURSE WIDENING 10", PAVEMENT MARKING BLACKOUT TAPE 7" AND PAVEMENT MARKING BLACKOUT TAPE 9". SEE SCHEDULES OF QUANTITIES FOR LOCATIONS.

STATION EQUATION:
PT STA 295+23.18 BK
STA 295+23.18 AH



USER NAME	= atn	DESIGNED	- ATN	REVISED	-
ESCA PROJECT NO.	= 1445.01	DRAWN	- ATN	REVISED	-
		CHECKED	- ELH	REVISED	-
PLOT DATE	= 9/23/2025	DATE	- 01/26	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-72
STAGE I TRAFFIC CONTROL PLAN

SCALE: 1" = 50'

SHEET 1 OF 4 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	D7 BRIDGE REPAIRS 2026-3	MACON	108	18
CONTRACT NO. 74D08				
ILLINOIS FED. AID PROJECT				

MODEL - Staging Sheet
FILE NAME: Y:\IDOT\1445-01_74D08\74D08 DESIGN\CADD\Highway\CADD Sheets\ID774D08-shs-staging12.dgn



USER NAME = atn
ESCA PROJECT NO. = 1445.01
PLOT DATE = 9/23/2025

DESIGNED - ATN
DRAWN - ATN
CHECKED - ELH
DATE - 01/26

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-72
STAGE I TRAFFIC CONTROL PLAN

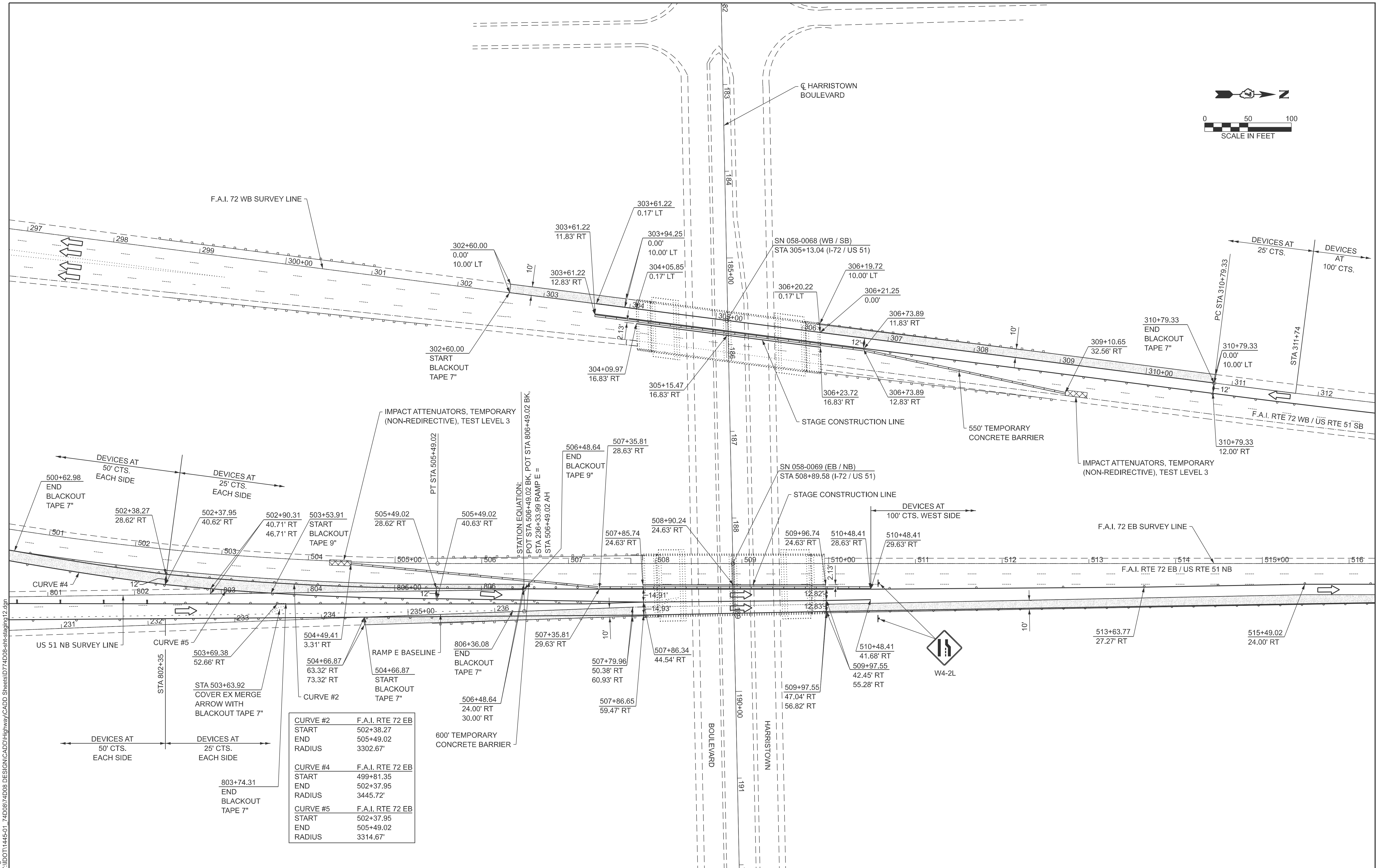
SCALE: 1" = 50'

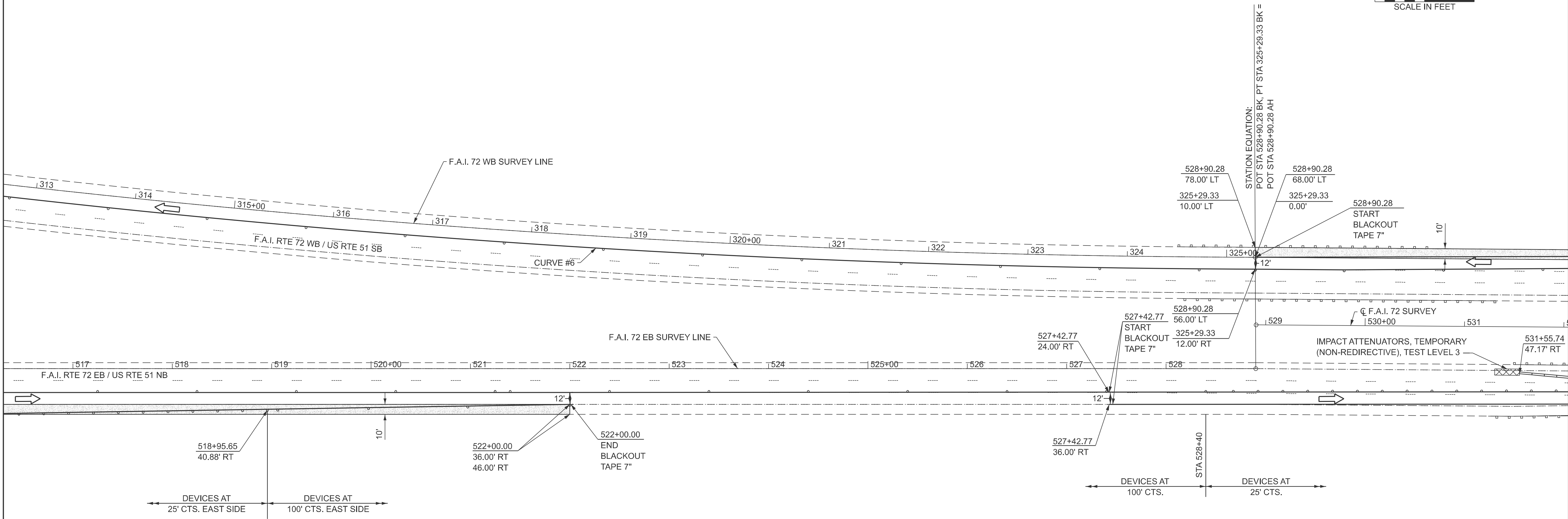
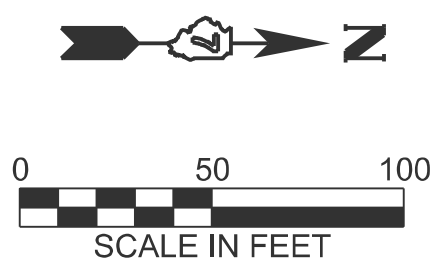
SHEET 2 OF 4 SHEETS

STA.

TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	D7 BRIDGE REPAIRS 2026-3	MACON	108	19
CONTRACT NO. 74D08				
ILLINOIS FED. AID PROJECT				





CURVE #6	F.A.I. RTE 72 WB
START	310+79.33
END	325+29.33
RADIUS	11471.14'

MODEL - Staging Sheet
FILE NAME - Y:\DOT11445-01_74D08\74D08 DESIGN\CADD\Highway\CADD Sheets\ID774D08-shit-staging13.dgn



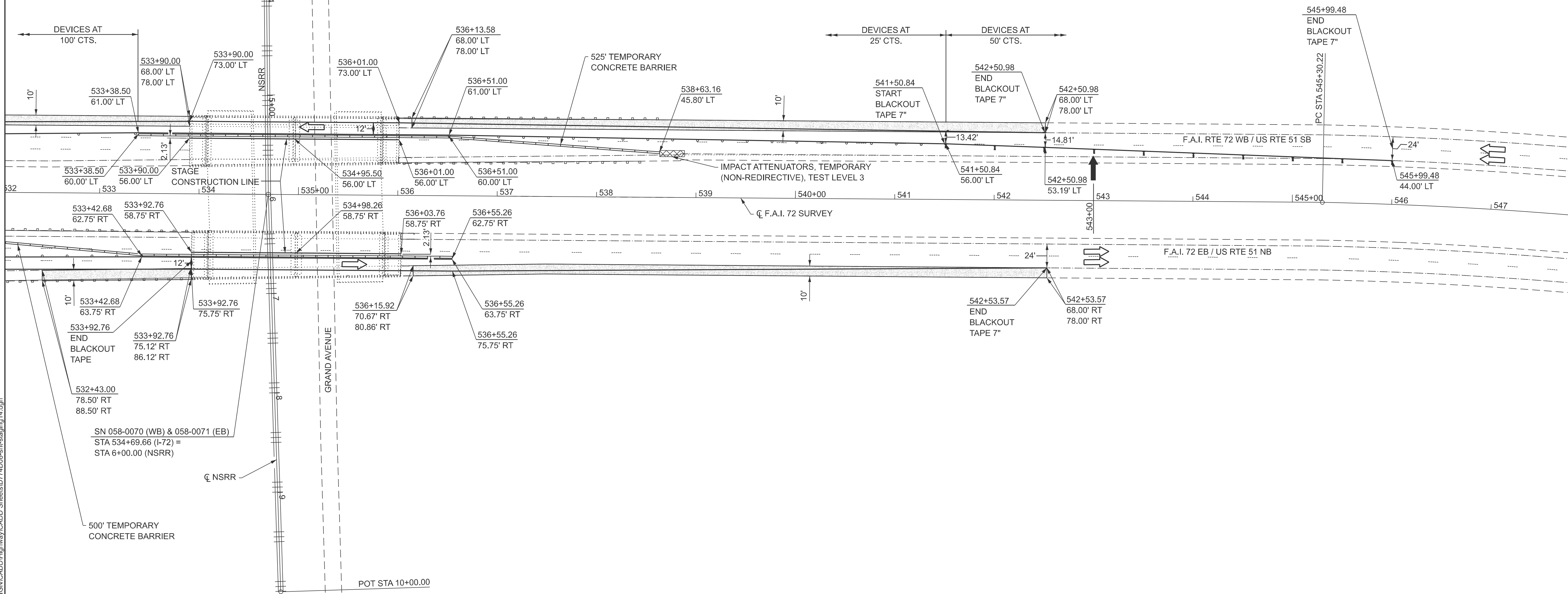
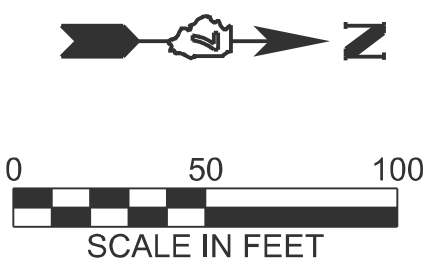
USER NAME	= atn	DESIGNED -	ATN	REVISED -	
ESCA PROJECT NO.	= 1445.01	DRAWN -	ATN	REVISED -	
		CHECKED -	ELH	REVISED -	
PLOT DATE	= 9/23/2025	DATE -	01/26	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-72
STAGE I TRAFFIC CONTROL PLAN

SCALE: 1" = 50' SHEET 3 OF 4 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	D7 BRIDGE REPAIRS 2026-3	MACON	108	20
CONTRACT NO. 74D08				
ILLINOIS FED. AID PROJECT				



MODEL - Staging Sheet
FILE NAME: Y:\DOT11445-01_74D08\74D08 DESIGN\CADD\Highway\CADD Sheets\ID774D08-sh1t-staging14.dgn



USER NAME = atn	DESIGNED - ATN	REVISED -
ESCA PROJECT NO. = 1445.01	DRAWN - ATN	REVISED -
	CHECKED - ELH	REVISED -
PLOT DATE = 9/23/2025	DATE - 01/26	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-72
STAGE I TRAFFIC CONTROL PLAN

SCALE: 1" = 50' SHEET 4 OF 4 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	D7 BRIDGE REPAIRS 2026-3	MACON	108	21
CONTRACT NO. 74D08				
ILLINOIS FED. AID PROJECT				

MODEL - Staging Sheet
FILE NAME - Y:\DOT11445-01_74D08\74D08 DESIGN\CADD\Highway\CADD Sheets\ID774D08-shs-staging22.dgn



USER NAME	= atn	DESIGNED -	ATN	REVISED -	
ESCA PROJECT NO.	= 1445.01	DRAWN -	ATN	REVISED -	
PLOT DATE	= 9/23/2025	CHECKED -	ELH	REVISED -	
		DATE -	01/26	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-72
STAGE II TRAFFIC CONTROL PLAN

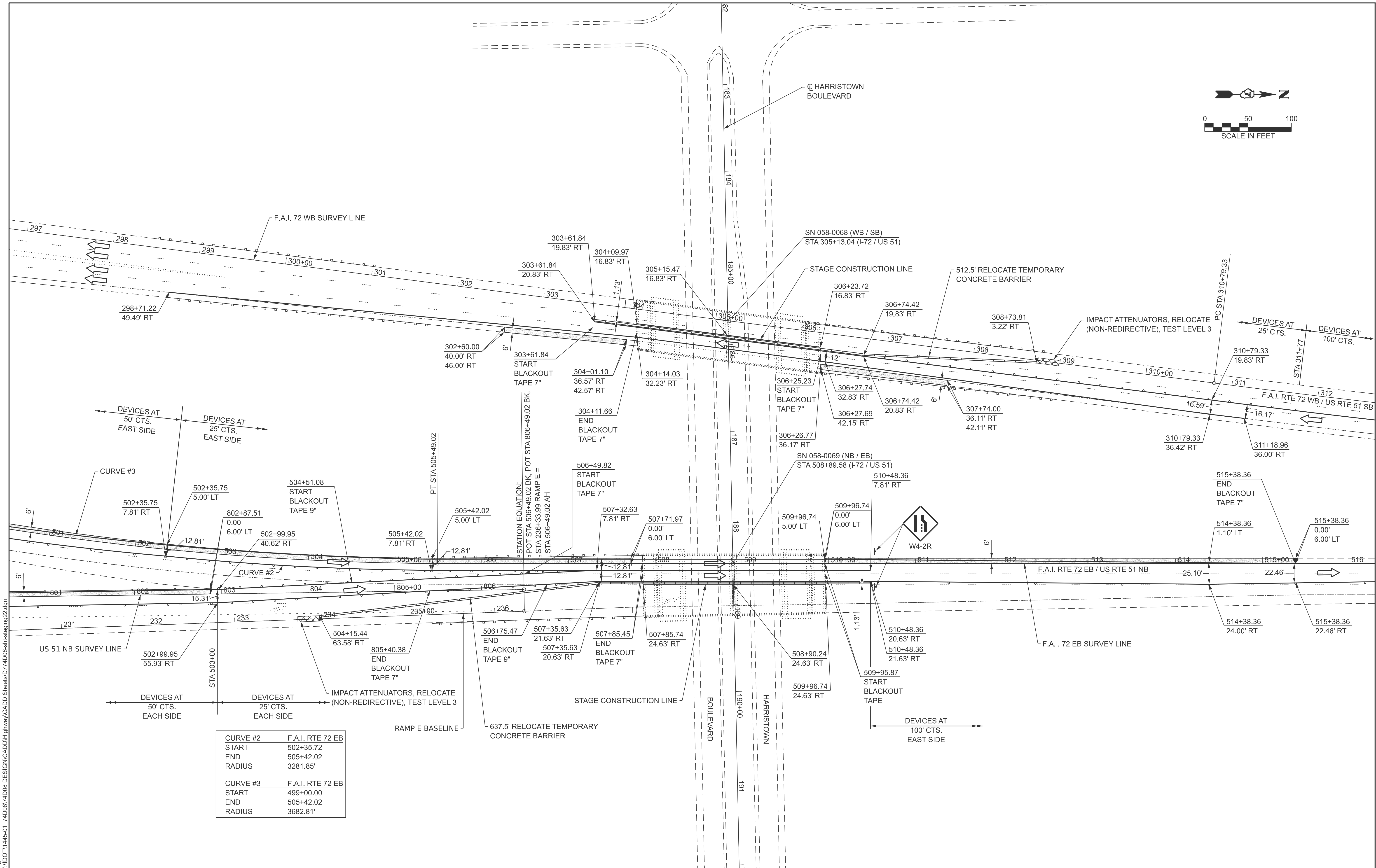
SCALE: 1" = 50'

SHEET 2 OF 4 SHEETS

STA.

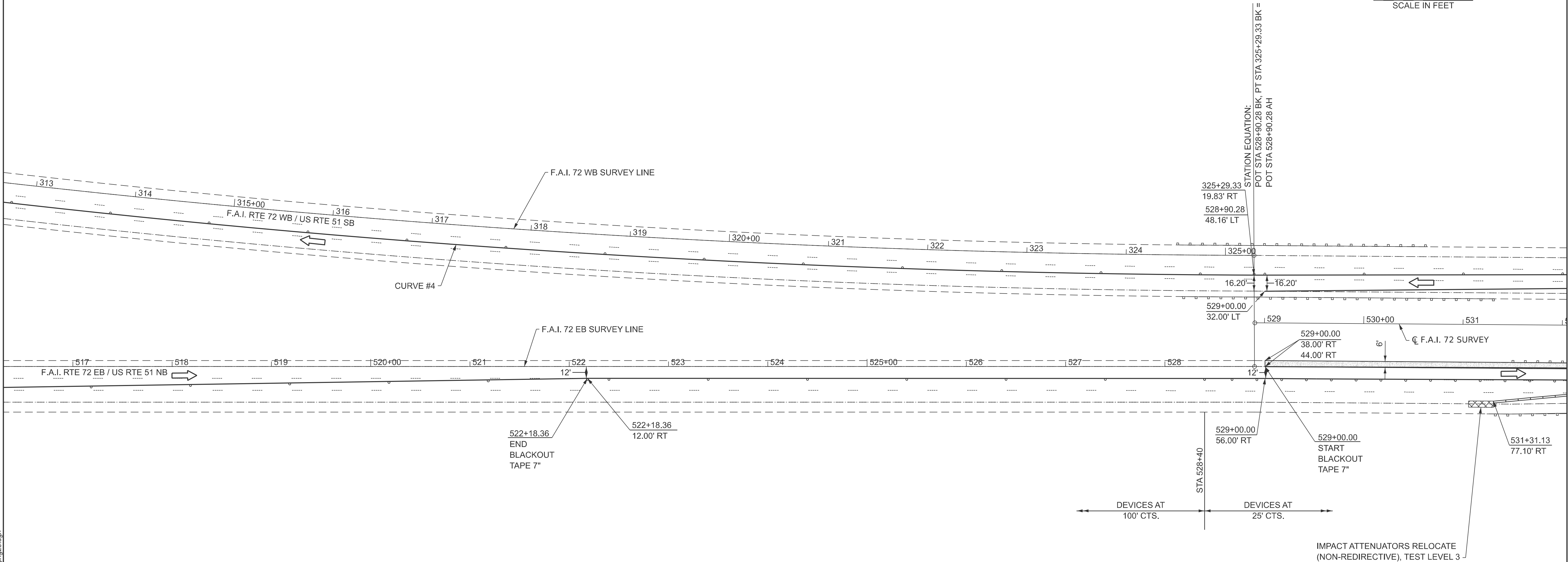
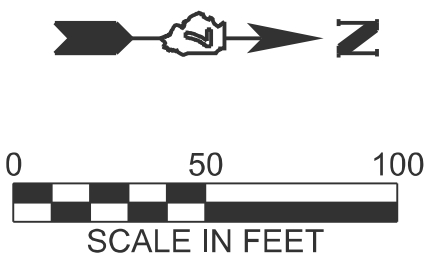
TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	D7 BRIDGE REPAIRS 2026-3	MACON	108	23
CONTRACT NO. 74D08				
ILLINOIS FED. AID PROJECT				



CURVE #2	F.A.I. RTE 72 EB
START	502+35.72
END	505+42.02
RADIUS	3281.85'
CURVE #3	F.A.I. RTE 72 EB
START	499+00.00
END	505+42.02
RADIUS	3682.81'

MODEL - Staging Sheet
FILE NAME: Y:\DOT11445-01_74D08\74D08 DESIGN\CADD\Highway\CADD Sheets\ID774D08-shit-staging23.dgn



CURVE #4	F.A.I. RTE 72 WB
START	310+79.33
END	325+29.33
RADIUS	11478.98'



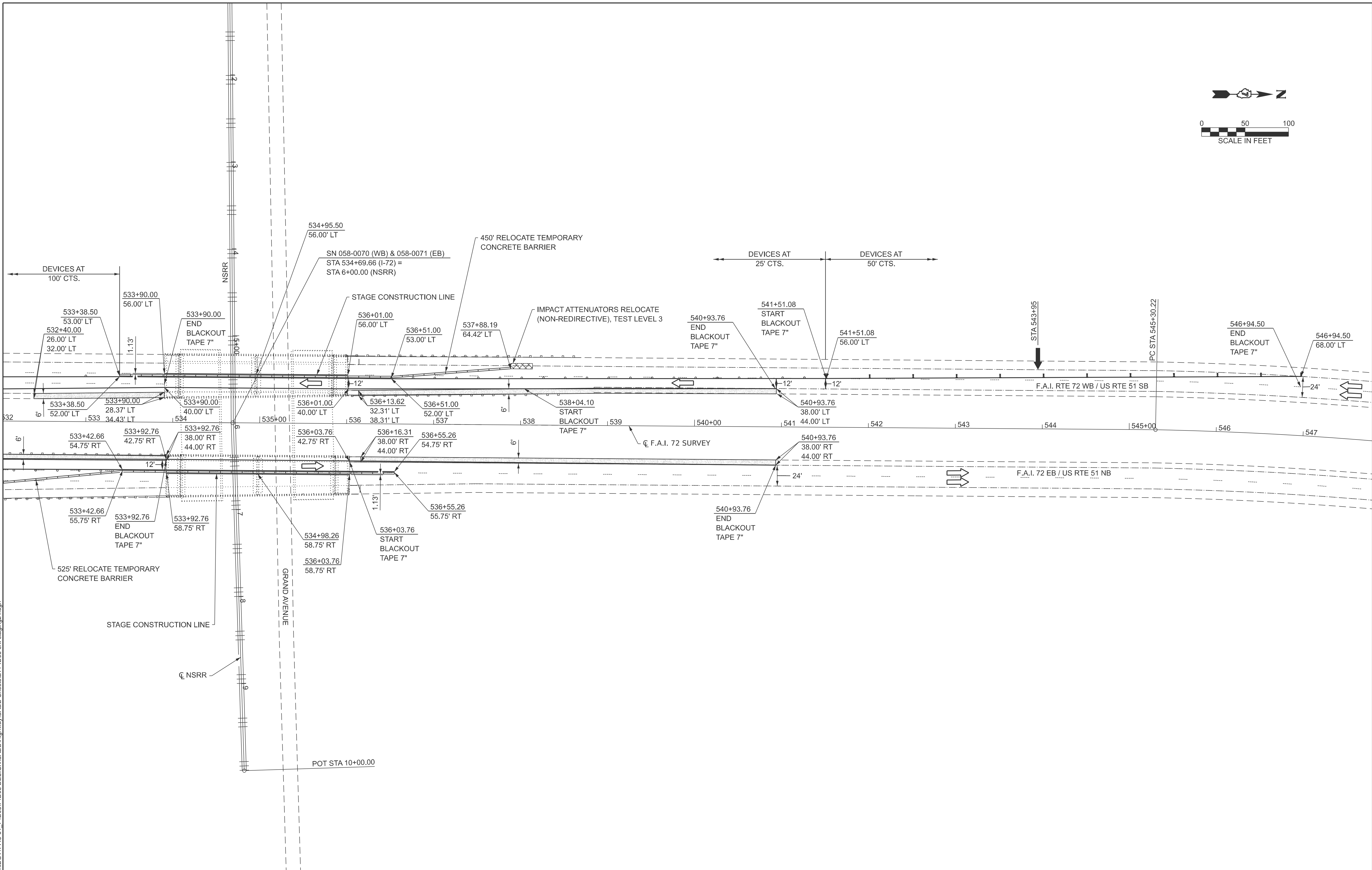
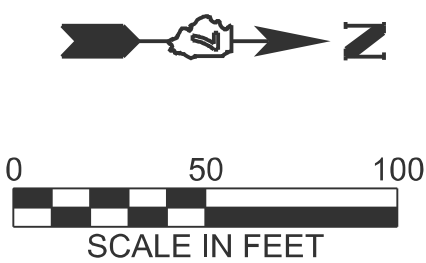
USER NAME	= atn	DESIGNED	-	ATN	REVISED	-
ESCA PROJECT NO.	= 1445.01	DRAWN	-	ATN	REVISED	-
		CHECKED	-	ELH	REVISED	-
PLOT DATE	= 9/23/2025	DATE	-	01/26	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-72
STAGE II TRAFFIC CONTROL PLAN

SCALE: 1" = 50' SHEET 3 OF 4 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	D7 BRIDGE REPAIRS 2026-3	MACON	108	24
CONTRACT NO. 74D08				
ILLINOIS FED. AID PROJECT				



MODEL - Staging Sheet
FILE NAME - Y:\DOT11445-01_74D08\74D08 DESIGN\CADD\Highway\CADD Sheets\ID774D08-sh1t-staging24.dgn



USER NAME = atn	DESIGNED - ATN	REVISED -
ESCA PROJECT NO. = 1445.01	DRAWN - ATN	REVISED -
	CHECKED - ELH	REVISED -
PLOT DATE = 9/23/2025	DATE - 01/26	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-72
STAGE II TRAFFIC CONTROL PLAN

SCALE: 1" = 50'

SHEET 4 OF 4 SHEETS

STA.

TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	D7 BRIDGE REPAIRS 2026-3	MACON	108	25
CONTRACT NO. 74D08				
ILLINOIS FED. AID PROJECT				

MODEL - Harristown Blvd Staging Street
FILE NAME - Y:\IDOT\1445-01_74D08\74D08 DESIGN\CADD\Highway\CADD Sheets\ID774D08-shit-staging41.dgn

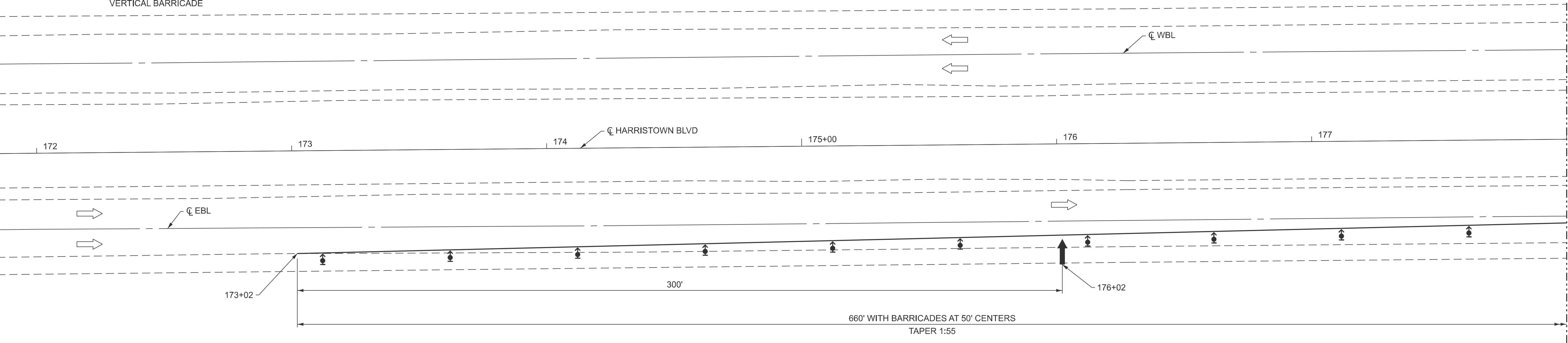
LEGEND

- DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- DIRECTION OF TRAFFIC
- SIGN
- ARROW BOARD
- TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE

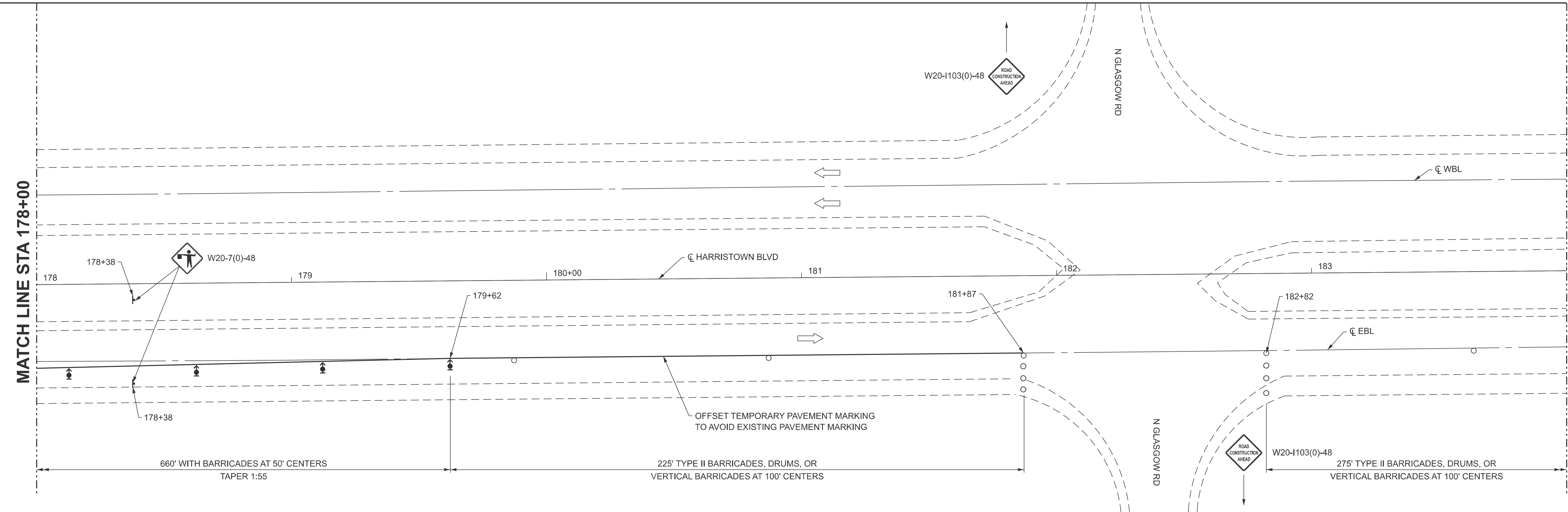


NOTES:

- USE THESE DETAILS IN CONJUNCTION WITH STANDARD 701422. THE COSTS FOR TEMPORARY PAVEMENT MARKING AND REMOVAL AND ADDITIONAL ITEMS SHOWN ON THESE SHEETS ARE INCLUDED IN THE PRICE FOR TRAFFIC CONTROL AND PROTECTION, STANDARD 701402.
- THE INTERSECTION OF HARRISTOWN BLVD AND N GLASGOW RD SHALL STAY OPEN DURING STAGE CONSTRUCTION.
- THE INTERSECTION OF HARRISTOWN BLVD AND N WESTERN AVE SHALL STAY OPEN DURING STAGE CONSTRUCTION.
- THE W20-7(0)-48 SIGNS SHALL BE REMOVED/COVERED/TURNED WHEN FLAGGERS ARE NOT PRESENT.



MATCH LINE STA 178+00



MATCH LINE STA 184+00



USER NAME	= atn	DESIGNED	- ATN	REVISED	-
ESCA PROJECT NO.	= 1445.01	DRAWN	- ATN	REVISED	-
		CHECKED	- ELH	REVISED	-
PLOT DATE	= 9/23/2025	DATE	- 01/26	REVISED	-

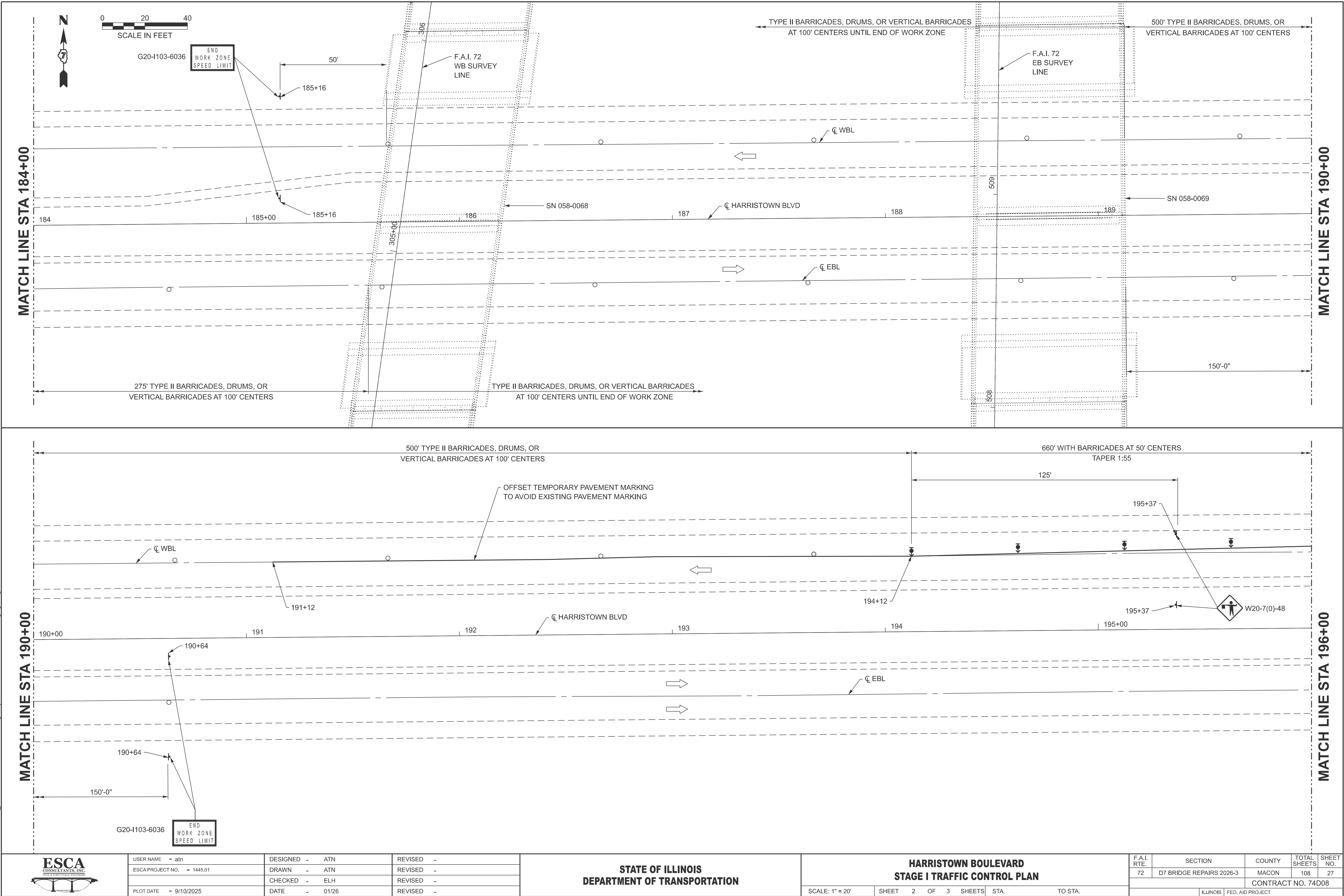
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HARRISTOWN BOULEVARD
STAGE I TRAFFIC CONTROL PLAN

SCALE: 1" = 20' SHEET 1 OF 3 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	D7 BRIDGE REPAIRS 2026-3	MACON	108	26
CONTRACT NO. 74D08				
ILLINOIS FED. AID PROJECT				

MODEL: Harristown Blvd Staging Sheet
FILE NAME: Y:\IDOT\1445-01_74D08\74D08 DESIGN\CADD\Highway\CADD Sheets\ID774D08-shit-staging42.dgn



USER NAME	= atn	DESIGNED	-	ATN	REVISED	-
ESCA PROJECT NO.	= 1445.01	DRAWN	-	ATN	REVISED	-
		CHECKED	-	ELH	REVISED	-
PLOT DATE	= 9/10/2025	DATE	-	01/26	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HARRISTOWN BOULEVARD
STAGE I TRAFFIC CONTROL PLAN

SCALE: 1" = 20'

SHEET 2 OF 3 SHEETS

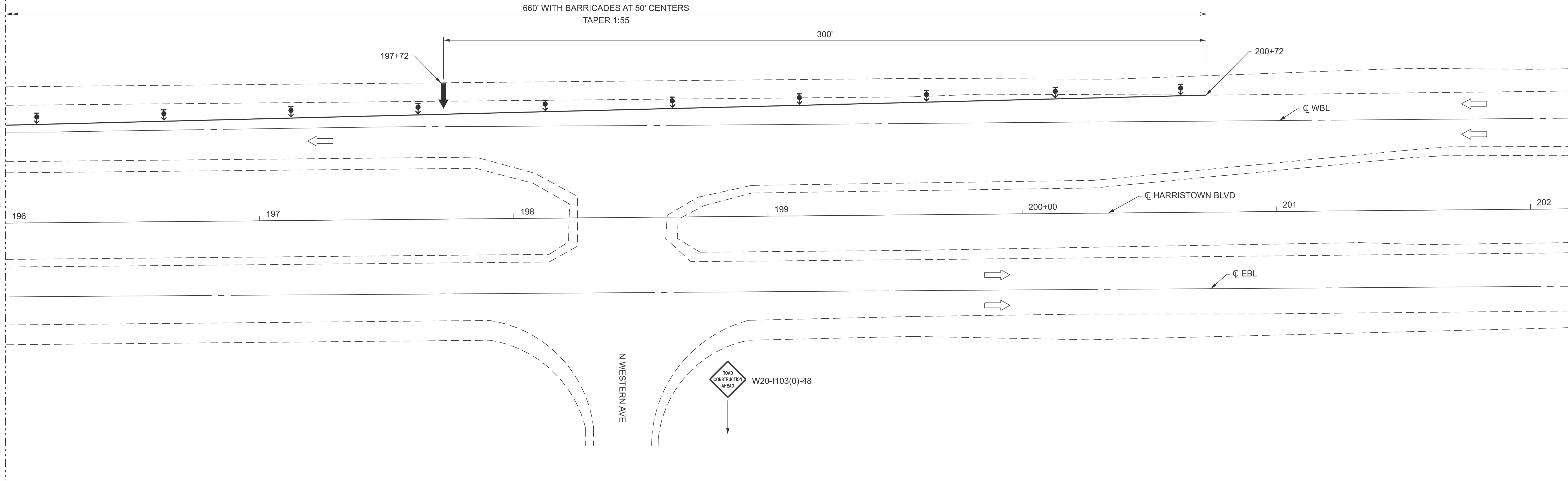
STA.

TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	D7 BRIDGE REPAIRS 2026-3	MACON	108	27
CONTRACT NO. 74D08				
ILLINOIS FED. AID PROJECT				

MODEL: Harristown Blvd Staging Sheet
FILE NAME: Y:\IDOT\1445-01_74D08\74D08 DESIGN\CADD\Highway\CADD Sheets\ID774D08-shit-staging43.dgn

MATCH LINE STA196+00



USER NAME = atn	DESIGNED - ATN	REVISED -
ESCA PROJECT NO. = 1445.01	DRAWN - ATN	REVISED -
	CHECKED - ELH	REVISED -
PLOT DATE = 9/10/2025	DATE - 01/26	REVISED -

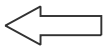
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HARRISTOWN BOULEVARD
STAGE I TRAFFIC CONTROL PLAN

SCALE: 1" = 20' SHEET 3 OF 3 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	D7 BRIDGE REPAIRS 2026-3	MACON	108	28
CONTRACT NO. 74D08				
ILLINOIS FED. AID PROJECT				

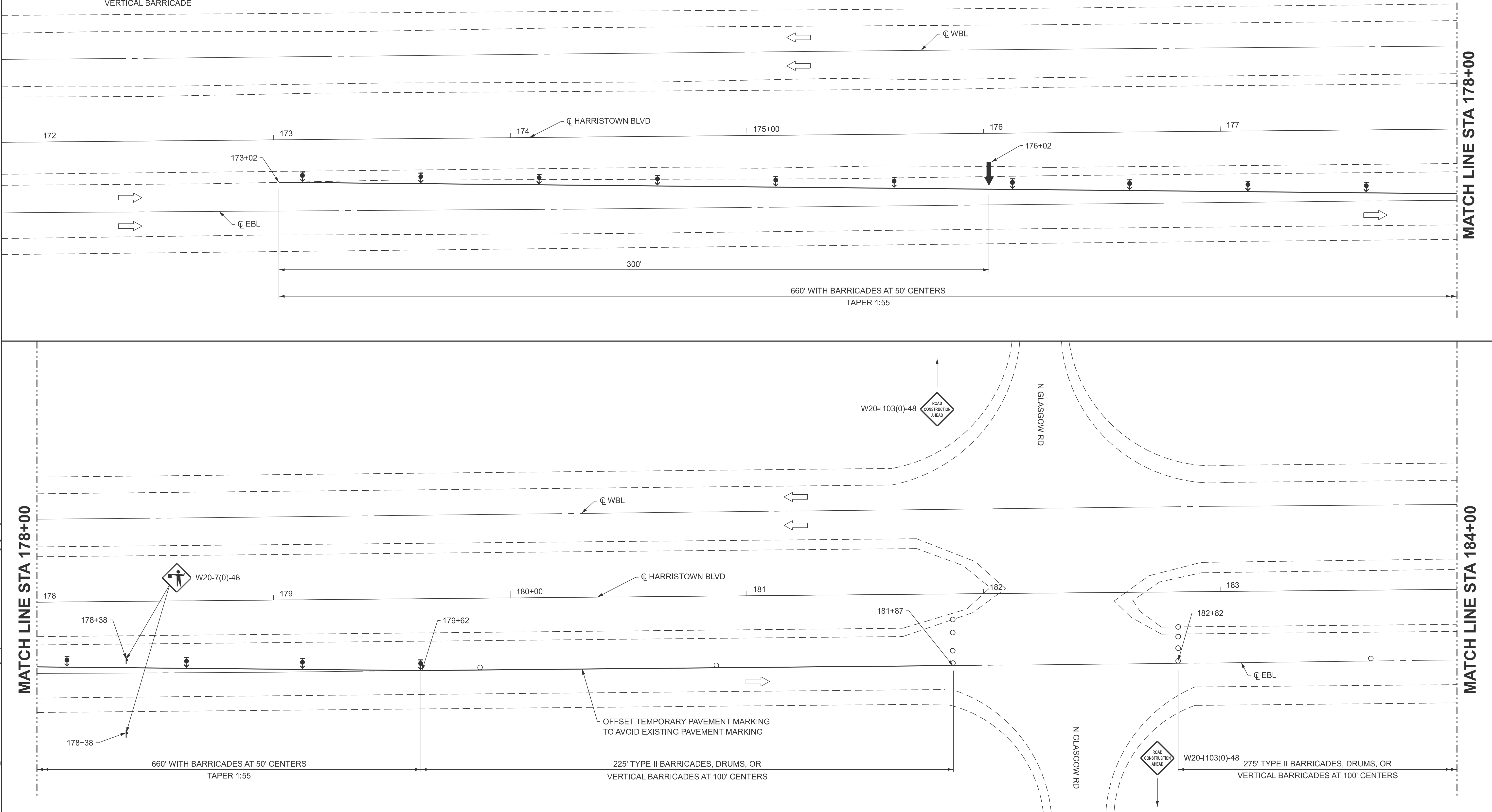
LEGEND

-  DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
-  DIRECTION OF TRAFFIC
-  SIGN
-  ARROW BOARD
-  TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE



NOTES:

- USE THESE DETAILS IN CONJUNCTION WITH STANDARD 701422. THE COSTS FOR TEMPORARY PAVEMENT MARKING AND REMOVAL AND ADDITIONAL ITEMS SHOWN ON THESE SHEETS ARE INCLUDED IN THE PRICE FOR TRAFFIC CONTROL AND PROTECTION, STANDARD 701402.
- THE INTERSECTION OF HARRISTOWN BLVD AND N GLASGOW RD SHALL STAY OPEN DURING STAGE CONSTRUCTION.
- THE INTERSECTION OF HARRISTOWN BLVD AND N WESTERN AVE SHALL STAY OPEN DURING STAGE CONSTRUCTION.
- THE W20-7(0)-48 SIGNS SHALL BE REMOVED/COVERED/TURNED WHEN FLAGGERS ARE NOT PRESENT.



MODEL: Harris Town Blvd Staging Sheet
FILE NAME: Y:\IDOT\1445-01_74D08\74D08 DESIGN\CADD\Highway\CADD Sheets\ID774D08-shit-staging51.dgn



USER NAME	= atn	DESIGNED	- ATN	REVISED	-
ESCA PROJECT NO.	= 1445.01	DRAWN	- ATN	REVISED	-
		CHECKED	- ELH	REVISED	-
PLOT DATE	= 9/12/2025	DATE	- 01/26	REVISED	-

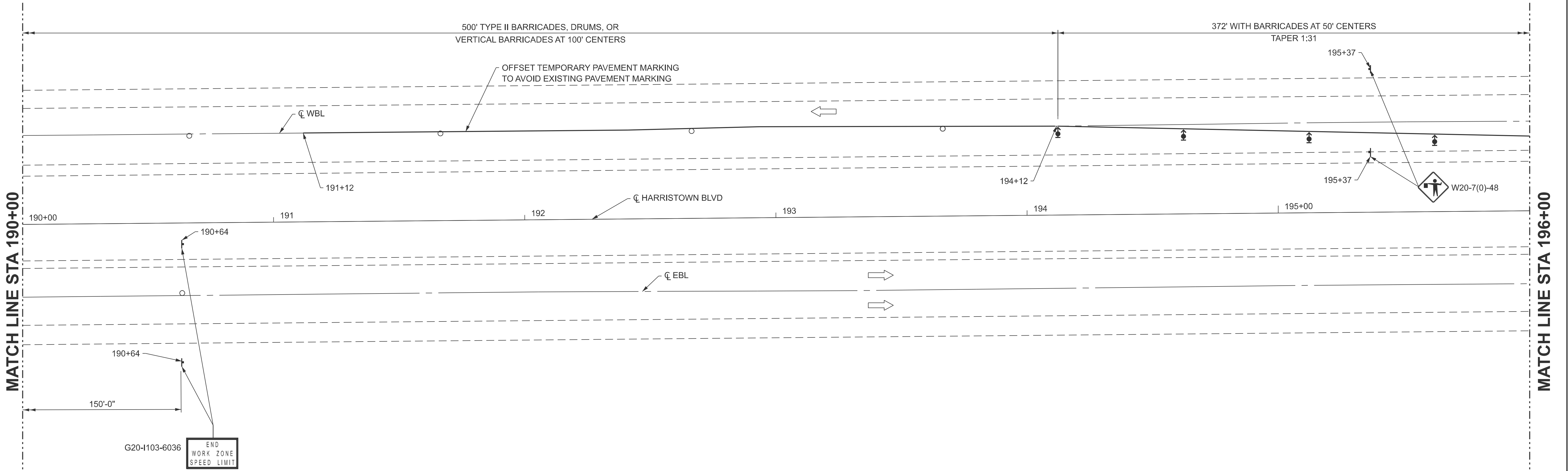
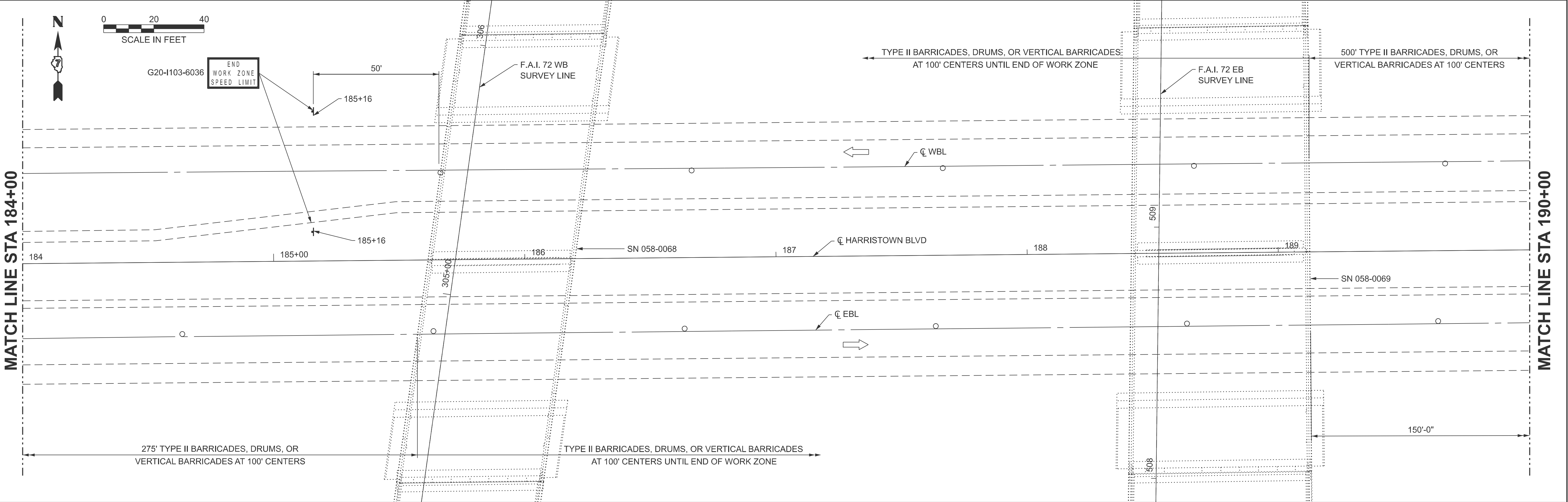
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HARRISTOWN BOULEVARD
STAGE II TRAFFIC CONTROL PLAN

SCALE: 1" = 20' SHEET 1 OF 3 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	D7 BRIDGE REPAIRS 2026-3	MACON	108	29
CONTRACT NO. 74D08				
ILLINOIS FED. AID PROJECT				

MODEL - Harristown Blvd Staging Sheet
FILE NAME - Y:\IDOT\1445-01_74D08\74D08 DESIGN\CADD\Highway\CADD Sheets\ID774D08-shit-staging52.dgn



USER NAME	= atn	DESIGNED -	ATN	REVISED -	
ESCA PROJECT NO.	= 1445.01	DRAWN -	ATN	REVISED -	
		CHECKED -	ELH	REVISED -	
PLOT DATE	= 9/12/2025	DATE -	01/26	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

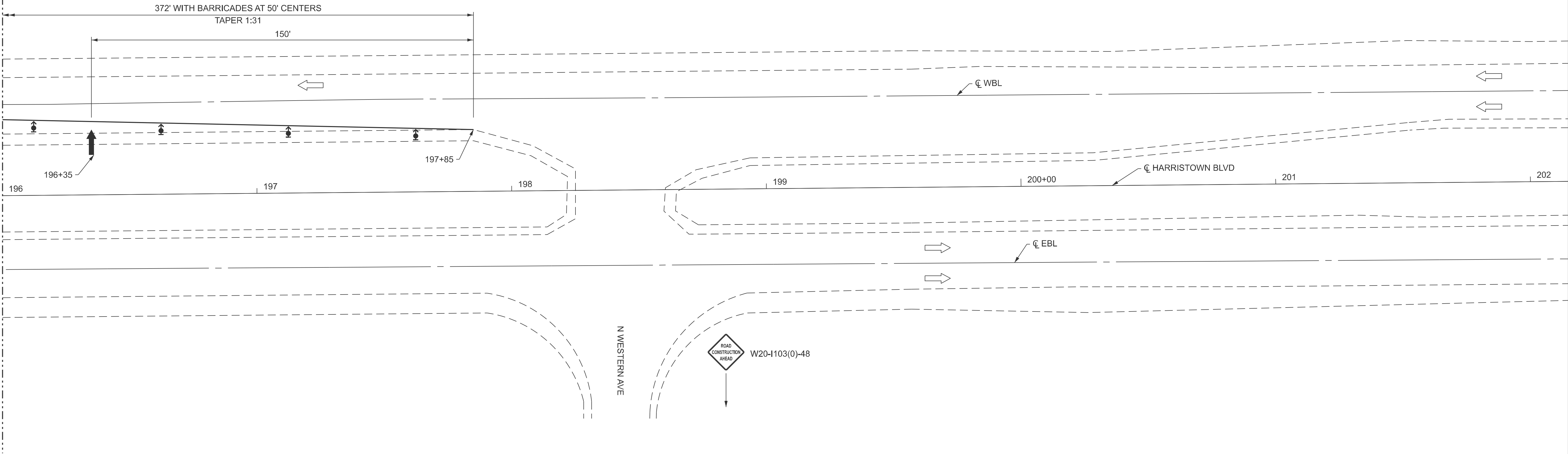
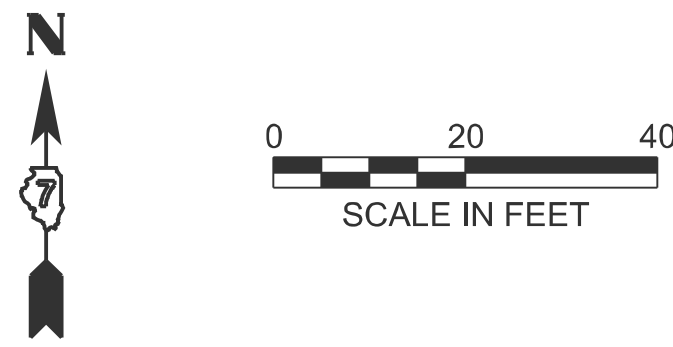
HARRISTOWN BOULEVARD
STAGE II TRAFFIC CONTROL PLAN

SCALE: 1" = 20' SHEET 2 OF 3 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	D7 BRIDGE REPAIRS 2026-3	MACON	108	30
CONTRACT NO. 74D08				
ILLINOIS FED. AID PROJECT				

MODEL: Harristown Blvd Staging Sheet
FILE NAME: Y:\IDOT\1445-01_74D08\74D08 DESIGN\CADD\Highway\CADD Sheets\ID774D08-sh1t-staging53.dgn

MATCH LINE STA196+00



USER NAME = atn	DESIGNED - ATN	REVISED -
ESCA PROJECT NO. = 1445.01	DRAWN - ATN	REVISED -
	CHECKED - ELH	REVISED -
PLOT DATE = 9/10/2025	DATE - 01/26	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HARRISTOWN BOULEVARD
STAGE II TRAFFIC CONTROL PLAN

SCALE: 1" = 20' SHEET 3 OF 3 SHEETS STA. TO STA.

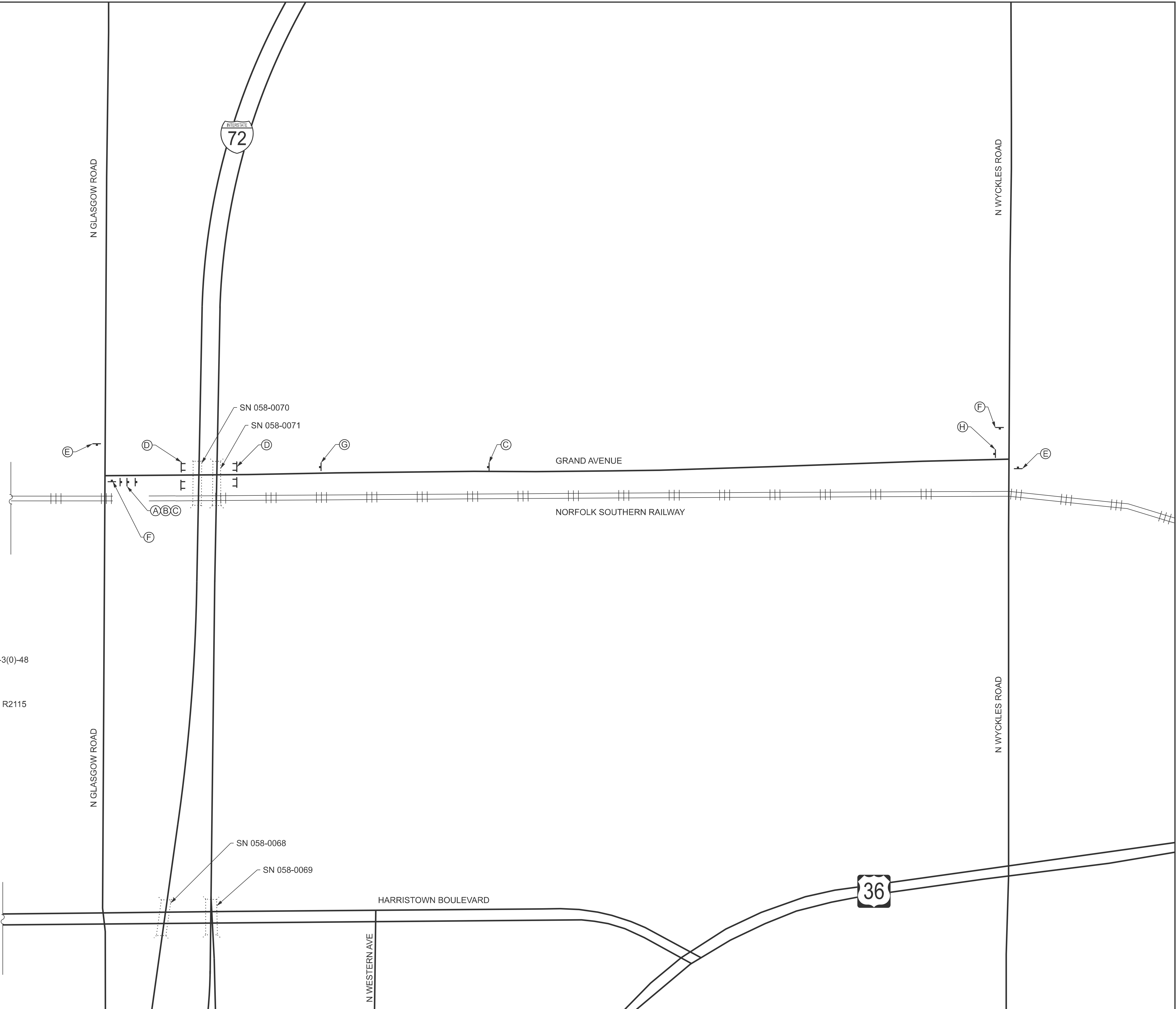
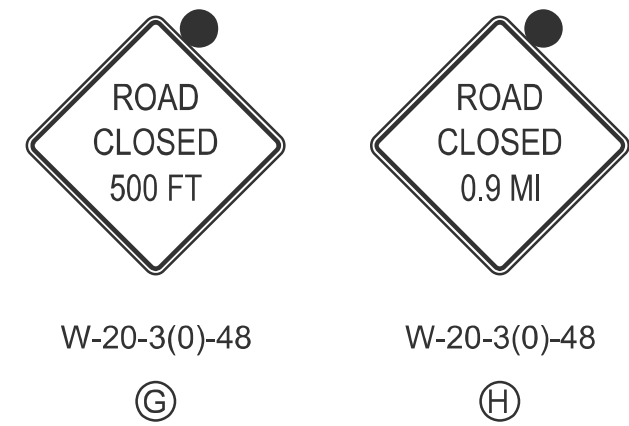
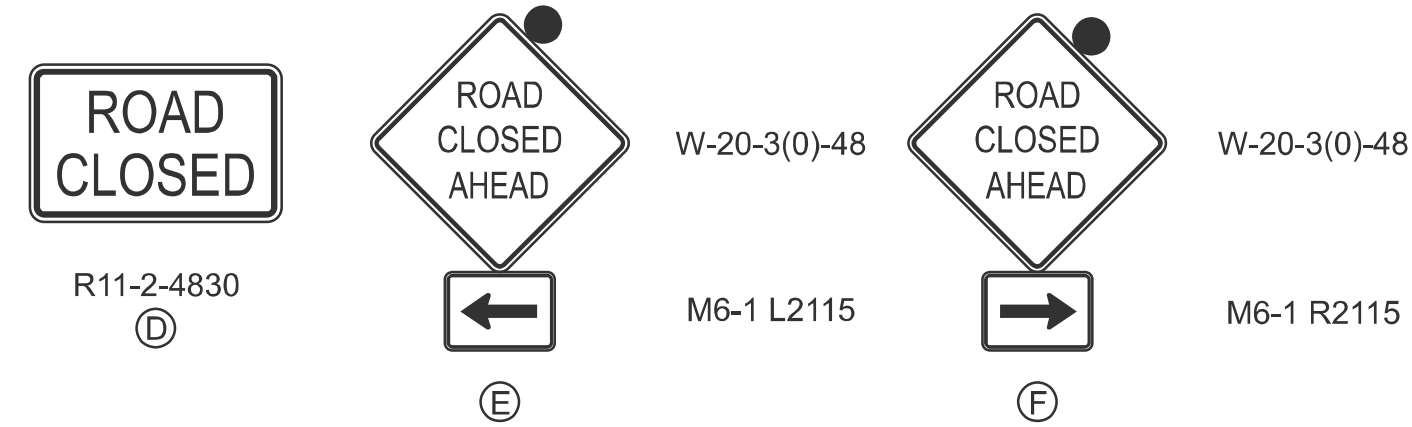
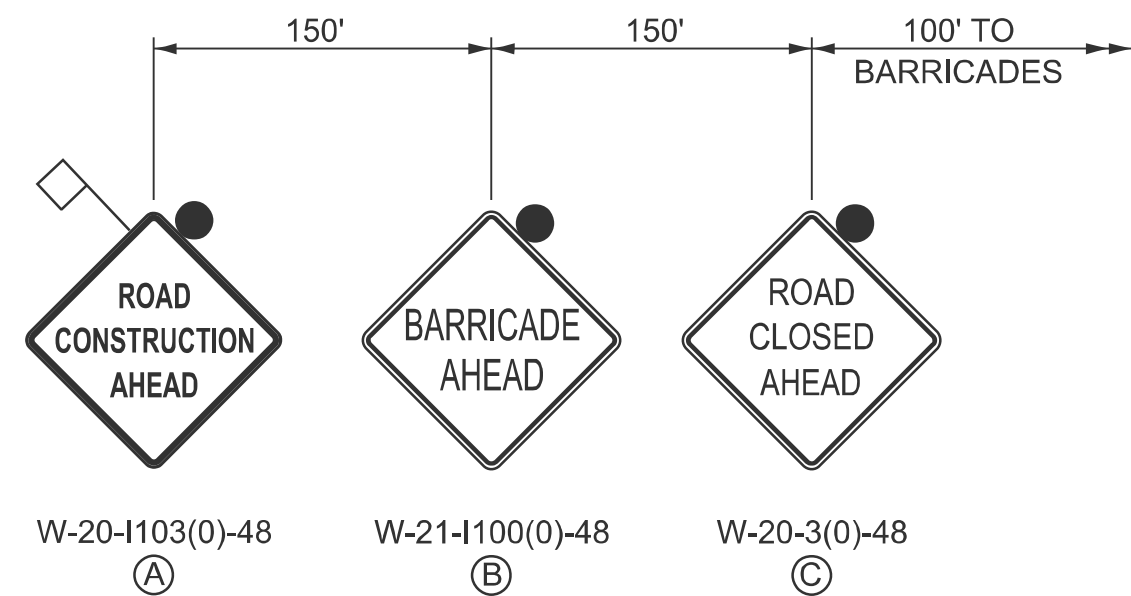
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	D7 BRIDGE REPAIRS 2026-3	MACON	108	31
CONTRACT NO. 74D08				
ILLINOIS FED. AID PROJECT				

NOTES

- 1. LOCATIONS OF TRAFFIC CONTROL DEVICES MAY BE ADJUSTED BY THE ENGINEER.
- 2. SEE STANDARD 701901 FOR ADDITIONAL DETAILS.
- 3. ALL TRAFFIC CONTROL SHOWN ON THIS SHEET IS INCLUDED IN THE LUMP SUM AMOUNT FOR TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21.
- 4. DIMENSIONS FOR ALL SIGNS ARE TO BE 48" UNLESS SPECIFIED OTHERWISE.
- 5. EACH SIGN SHALL HAVE A FLASHING LIGHT. EACH TYPE III BARRICADE SHALL HAVE TWO FLASHING LIGHTS.

LEGEND

- Sign on permanent support
- Type III Barricades with flashing lights



MODEL: Grand Avenue Road Closure Sheet
FILE NAME: Y:\DOT\1445-01_74D08\74D08 DESIGN\CADD\Highway\CADD Sheets\ID774D08-shit-staging31.dgn



USER NAME	= atn	DESIGNED	- ATN	REVISED	-
ESCA PROJECT NO.	= 1445.01	DRAWN	- ATN	REVISED	-
		CHECKED	- ELH	REVISED	-
PLOT DATE	= 9/10/2025	DATE	- 01/26	REVISED	-

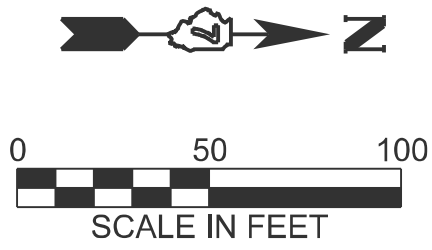
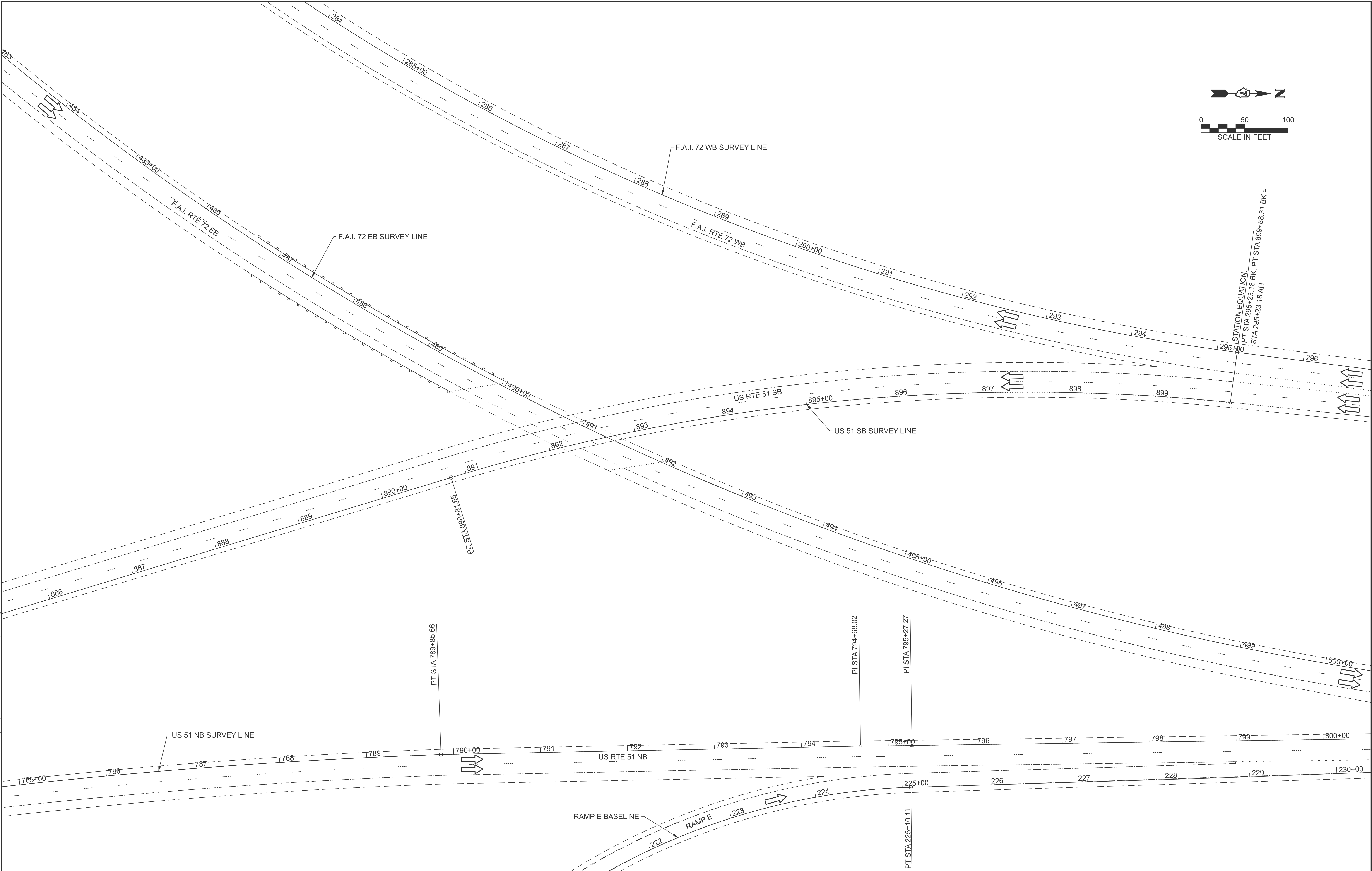
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GRAND AVENUE
CLOSURE PLAN

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	D7 BRIDGE REPAIRS 2026-3	MACON	108	32
CONTRACT NO. 74D08				
ILLINOIS FED. AID PROJECT				

MODEL: Pavement Marking Sheet
FILE NAME: Y:\IDOT\1445-01_74D08\74D08 DESIGN\CADD\Highway\CADD Sheets\ID774D08-shl-pmk01.dgn



USER NAME = atn	DESIGNED - ATN	REVISED -
ESCA PROJECT NO. = 1445.01	DRAWN - ATN	REVISED -
	CHECKED - ELH	REVISED -
PLOT DATE = 9/12/2025	DATE - 01/26	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-72
PAVEMENT MARKING PLAN

SCALE: 1" = 50' SHEET 1 OF 4 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	D7 BRIDGE REPAIRS 2026-3	MACON	108	33
CONTRACT NO. 74D08				
ILLINOIS FED. AID PROJECT				

MODEL: Pavement Marking Sheet
FILE NAME: Y:\DOT\1445-01_74D08\74D08 DESIGN\CADD\Highway\CADD Sheets\ID774D08-shl-pmk02.dgn



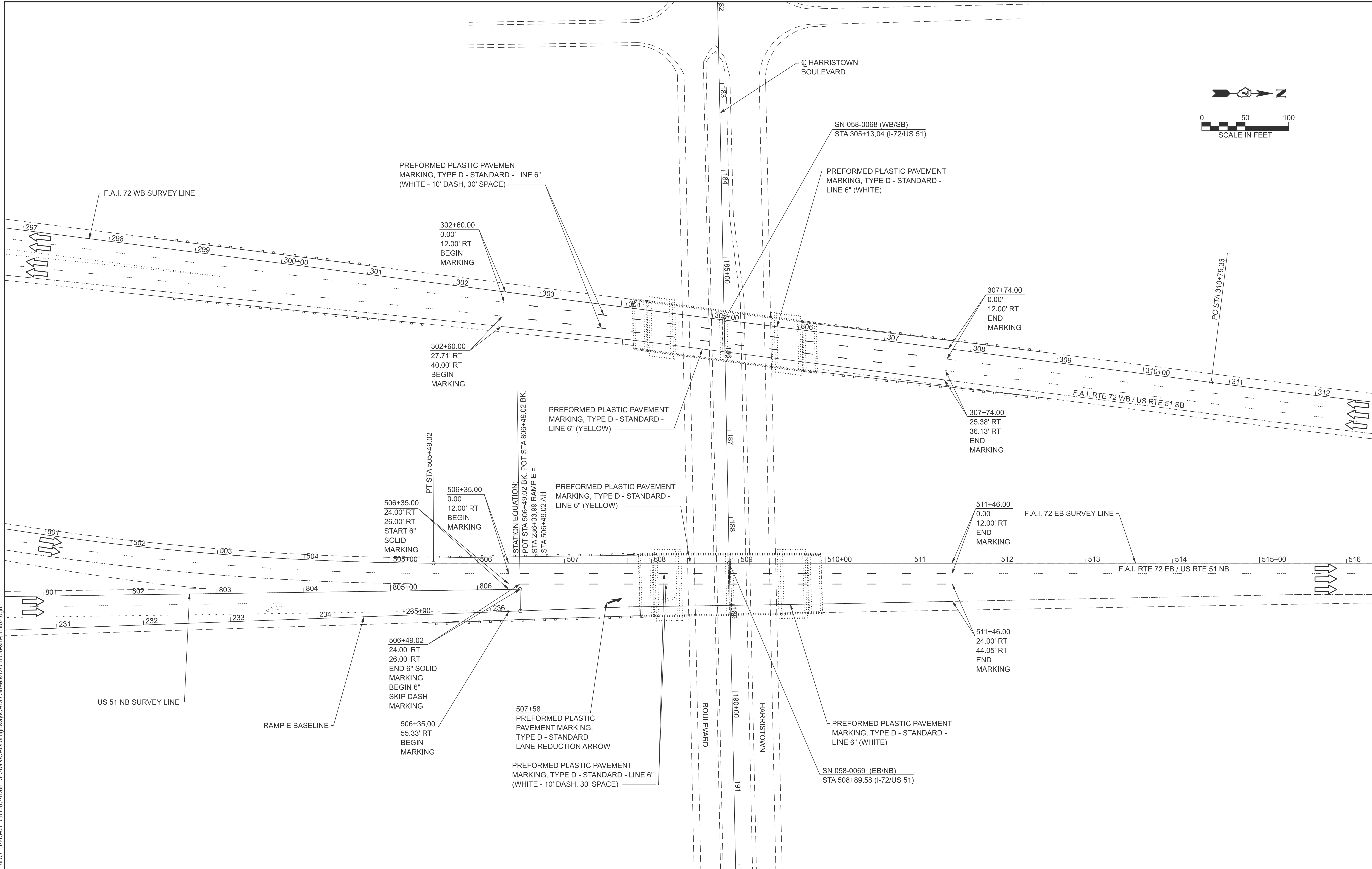
USER NAME = atn	DESIGNED - ATN	REVISED -
ESCA PROJECT NO. = 1445.01	DRAWN - ATN	REVISED -
	CHECKED - ELH	REVISED -
PLOT DATE = 7/28/2025	DATE - 01/26	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

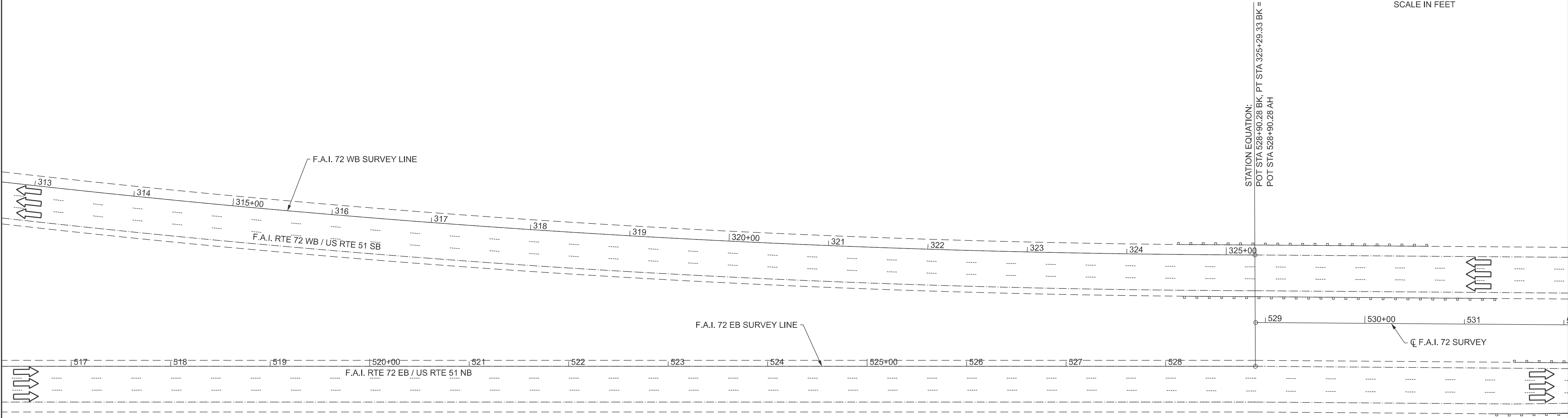
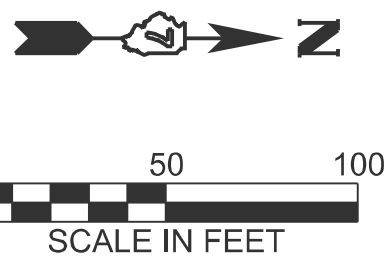
I-72
PAVEMENT MARKING PLAN

SCALE: 1" = 50' SHEET 2 OF 4 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	D7 BRIDGE REPAIRS 2026-3	MACON	108	34
CONTRACT NO. 74D08				
ILLINOIS FED. AID PROJECT				



MODEL: Pavement Marking Sheet
FILE NAME: Y:\DOT\1445-01_74D08\74D08 DESIGN\CADD\Highway\CADD Sheets\ID774D08-shl-pmk03.dgn



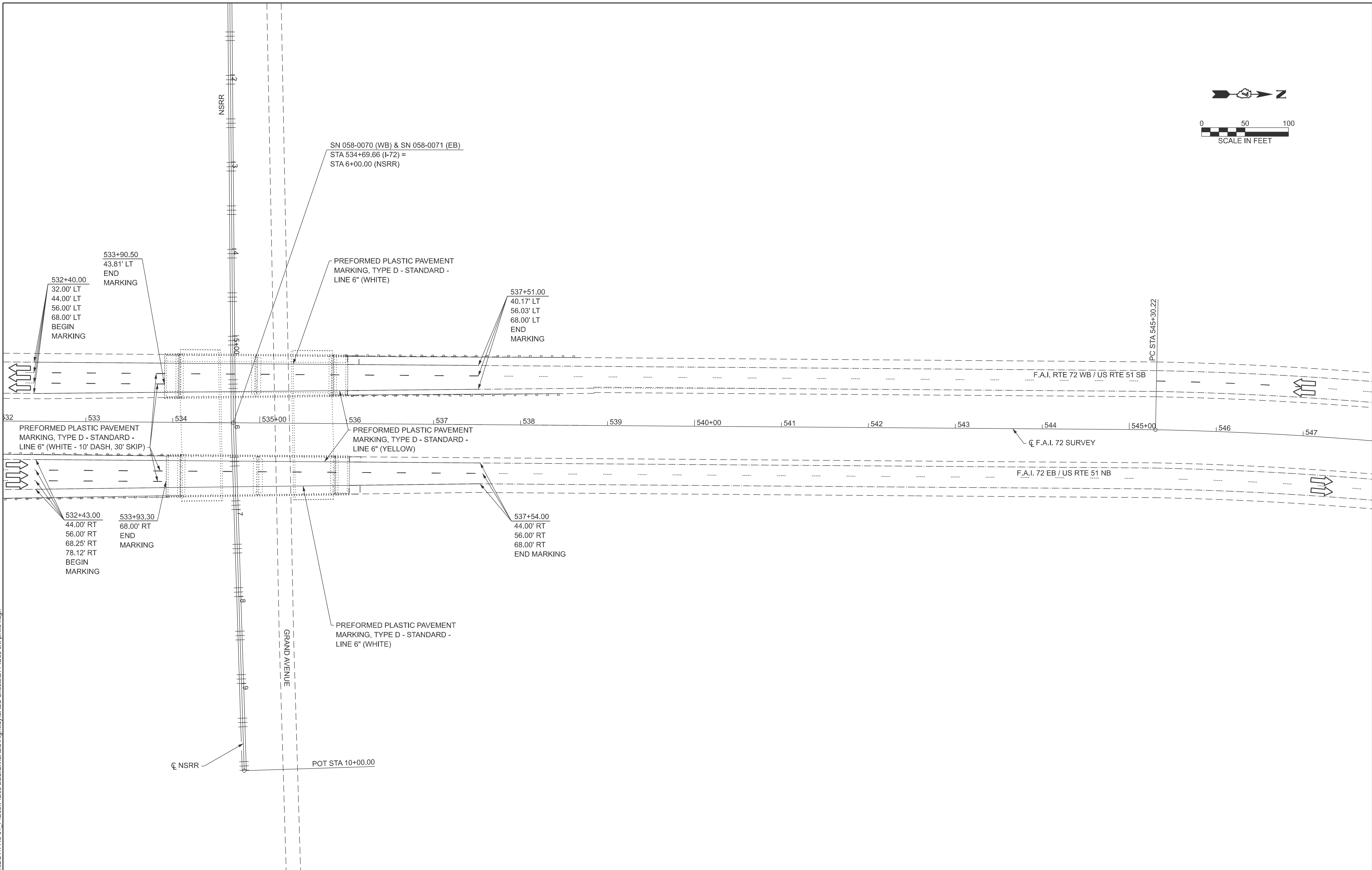
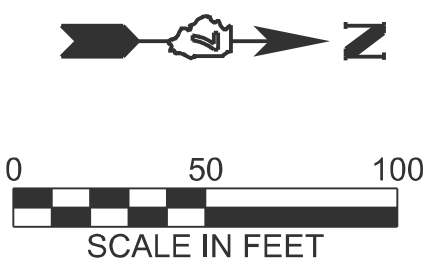
USER NAME = atn	DESIGNED - ATN	REVISED -
ESCA PROJECT NO. = 1445.01	DRAWN - ATN	REVISED -
	CHECKED - ELH	REVISED -
PLOT DATE = 7/28/2025	DATE - 01/26	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-72
PAVEMENT MARKING PLAN

SCALE: 1" = 50' SHEET 3 OF 4 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	D7 BRIDGE REPAIRS 2026-3	MACON	108	35
CONTRACT NO. 74D08				
ILLINOIS FED. AID PROJECT				



MODEL - Pavement Marking Sheet
FILE NAME - Y:\DOT\1445-01_74D08\74D08 DESIGN\CADD\Highway\CADD Sheets\ID774D08-shl-pmk04.dgn



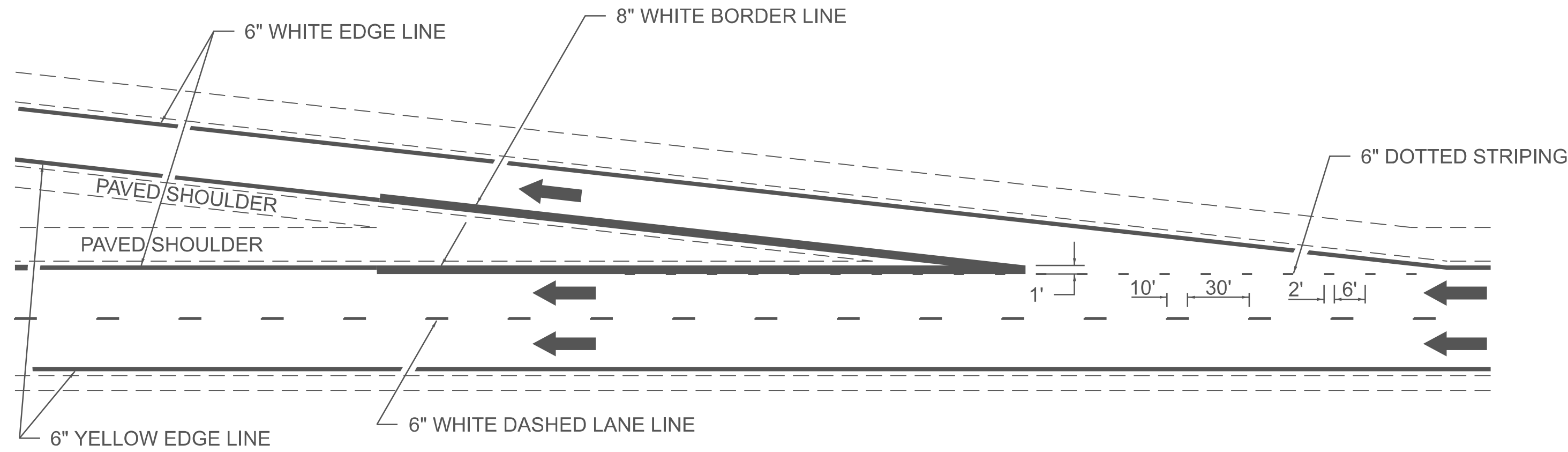
USER NAME = atn	DESIGNED - ATN	REVISED -
ESCA PROJECT NO. = 1445.01	DRAWN - ATN	REVISED -
	CHECKED - ELH	REVISED -
PLOT DATE = 9/17/2025	DATE - 01/26	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

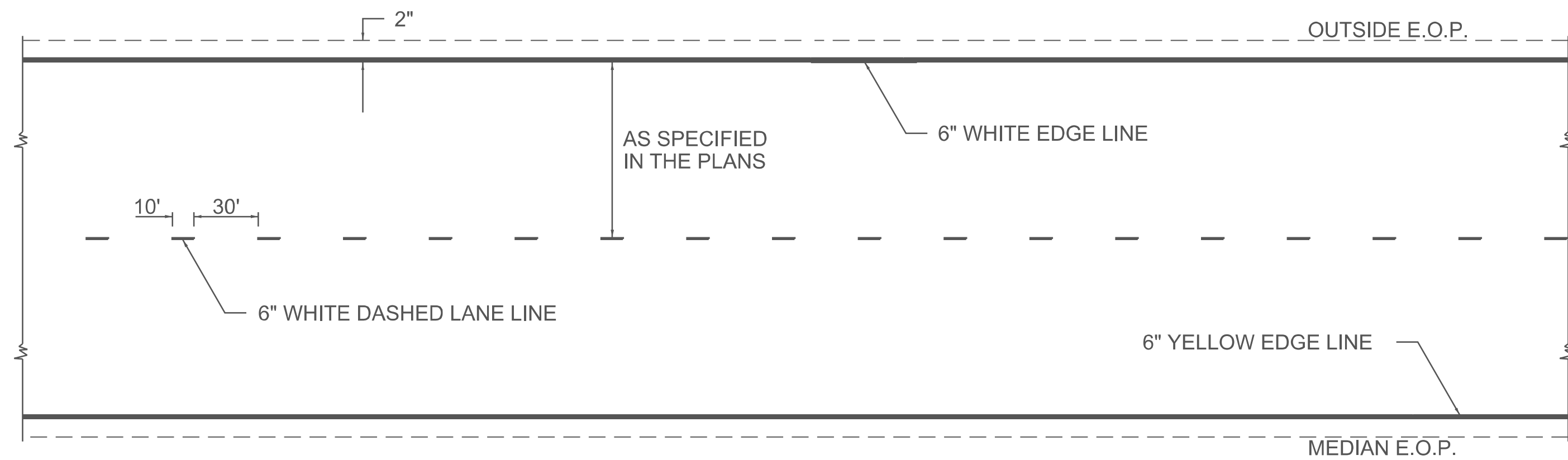
I-72
PAVEMENT MARKING PLAN

SCALE: 1" = 50' SHEET 4 OF 4 SHEETS STA. TO STA.

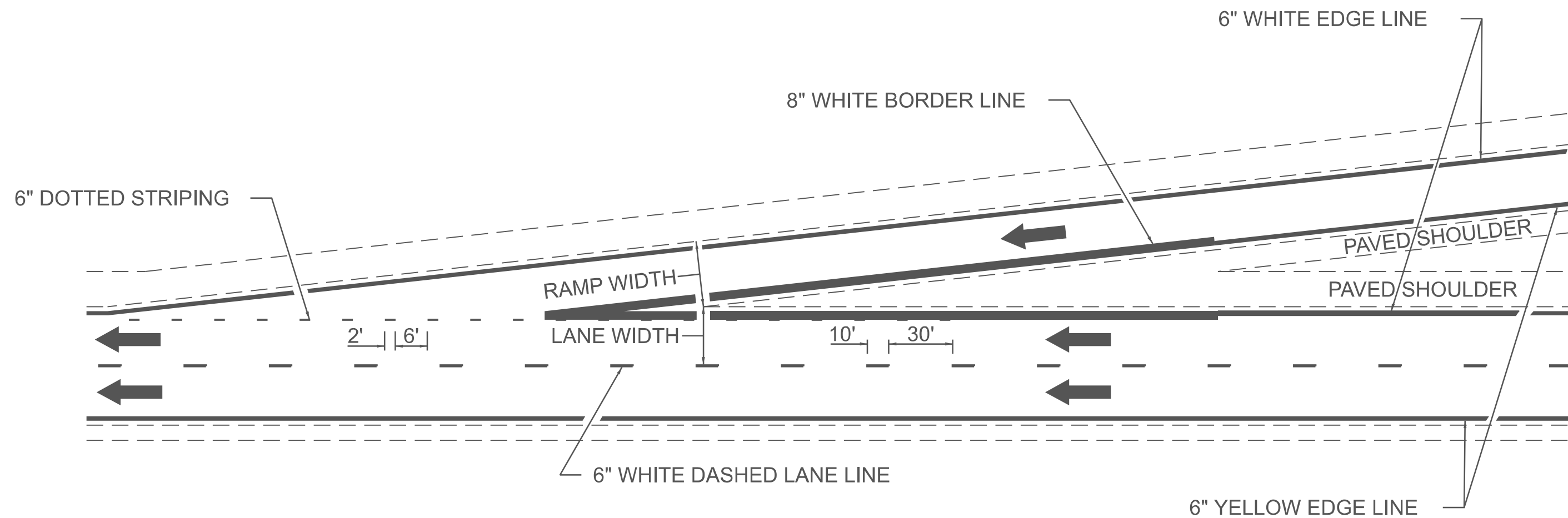
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	D7 BRIDGE REPAIRS 2026-3	MACON	108	36
CONTRACT NO. 74D08				
ILLINOIS FED. AID PROJECT				



TYPICAL EXIT RAMP MARKING



TYPICAL CENTERLINE & EDGELINE MARKINGS



TYPICAL ENTRANCE RAMP MARKING

NOT TO SCALE

DISTRICT 7 DETAIL NO. 78000002

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	D7 BRIDGE REPAIRS 2026-3	MACON	108	37
CONTRACT NO. 74D08				
ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL APPLICATIONS OF INTERSTATE PAVEMENT MARKINGS

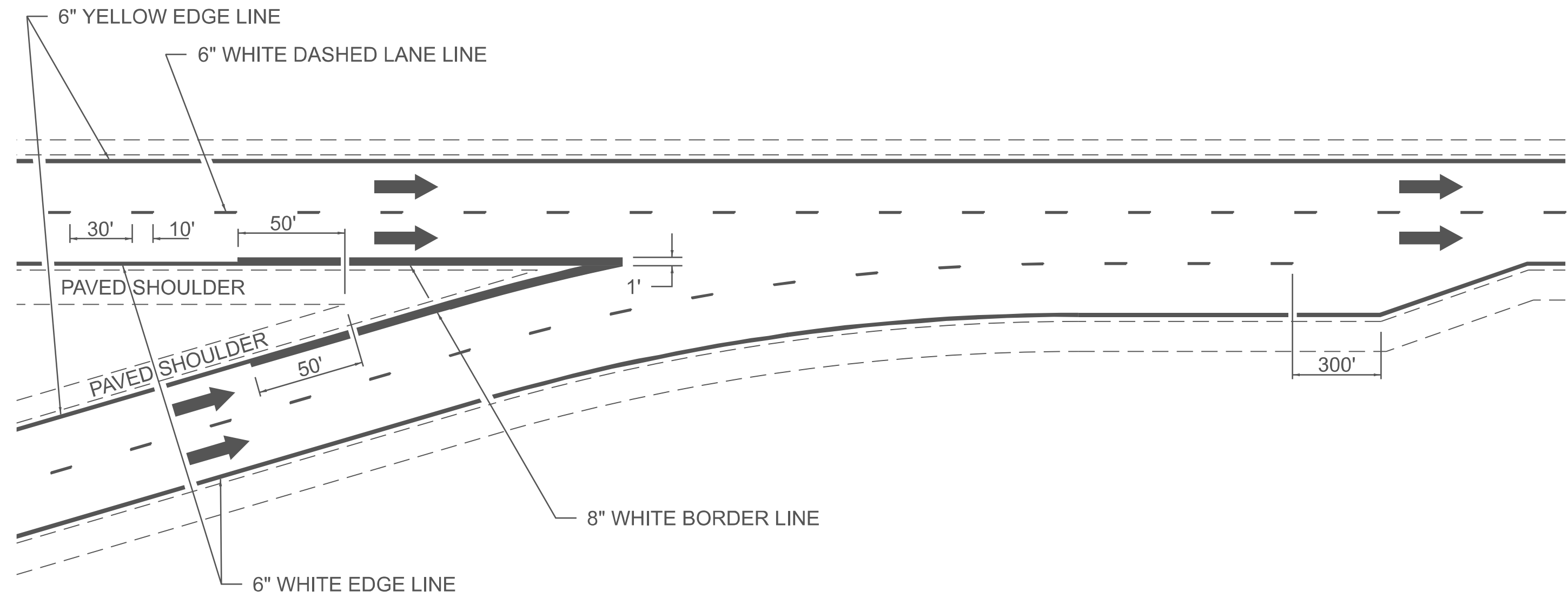
SCALE: NONE SHEET 1 OF 2 SHEETS STA. TO STA.



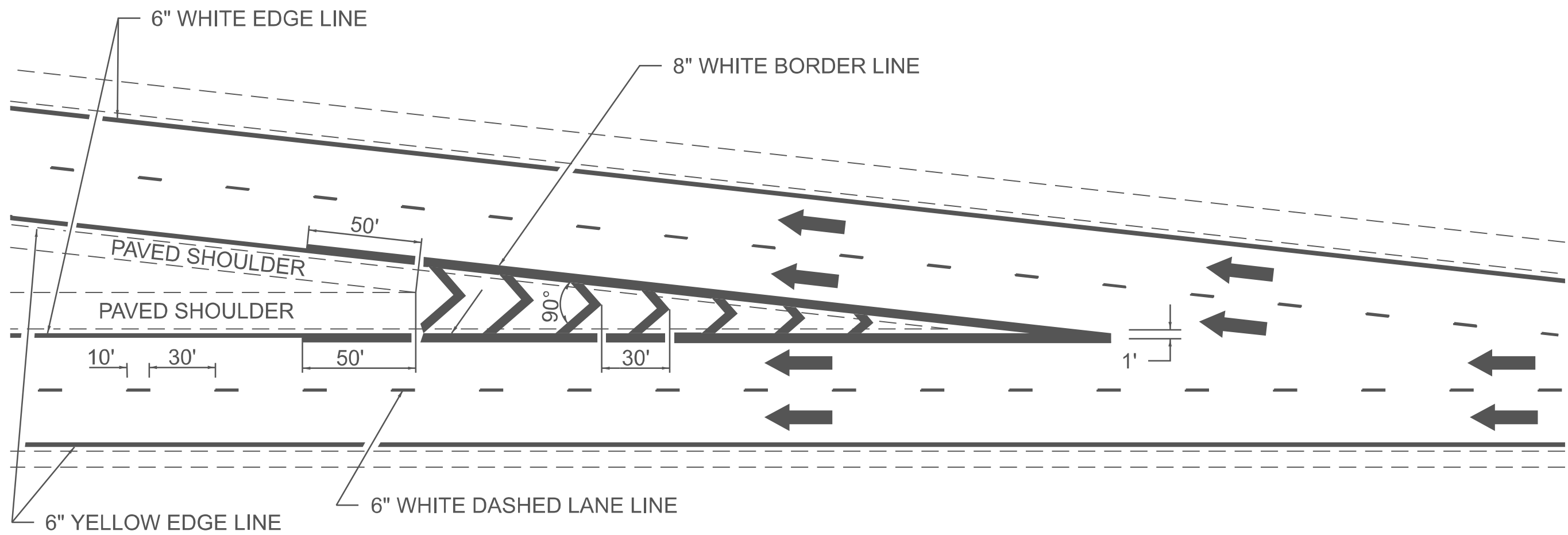
USER NAME = atn	DESIGNED - ATN	REVISED -
ESCA PROJECT NO. = 1445.01	DRAWN - ATN	REVISED -
	CHECKED - ELH	REVISED -
PLOT DATE = 1/15/2026	DATE - 01/26	REVISED -

MODEL: Details Sheet
FILE NAME: Y:\DOT\1445-01_74D08\74D08 DESIGN\CADD\Highway\CADD Sheets\ID774D08-shr-details01.dgn

MODEL: Details Sheet
FILE NAME: Y:\DOT\1445-01_74D08\74D08 DESIGN\CADD\Highway\CADD Sheets\ID774D08-sh1-details02.dgn

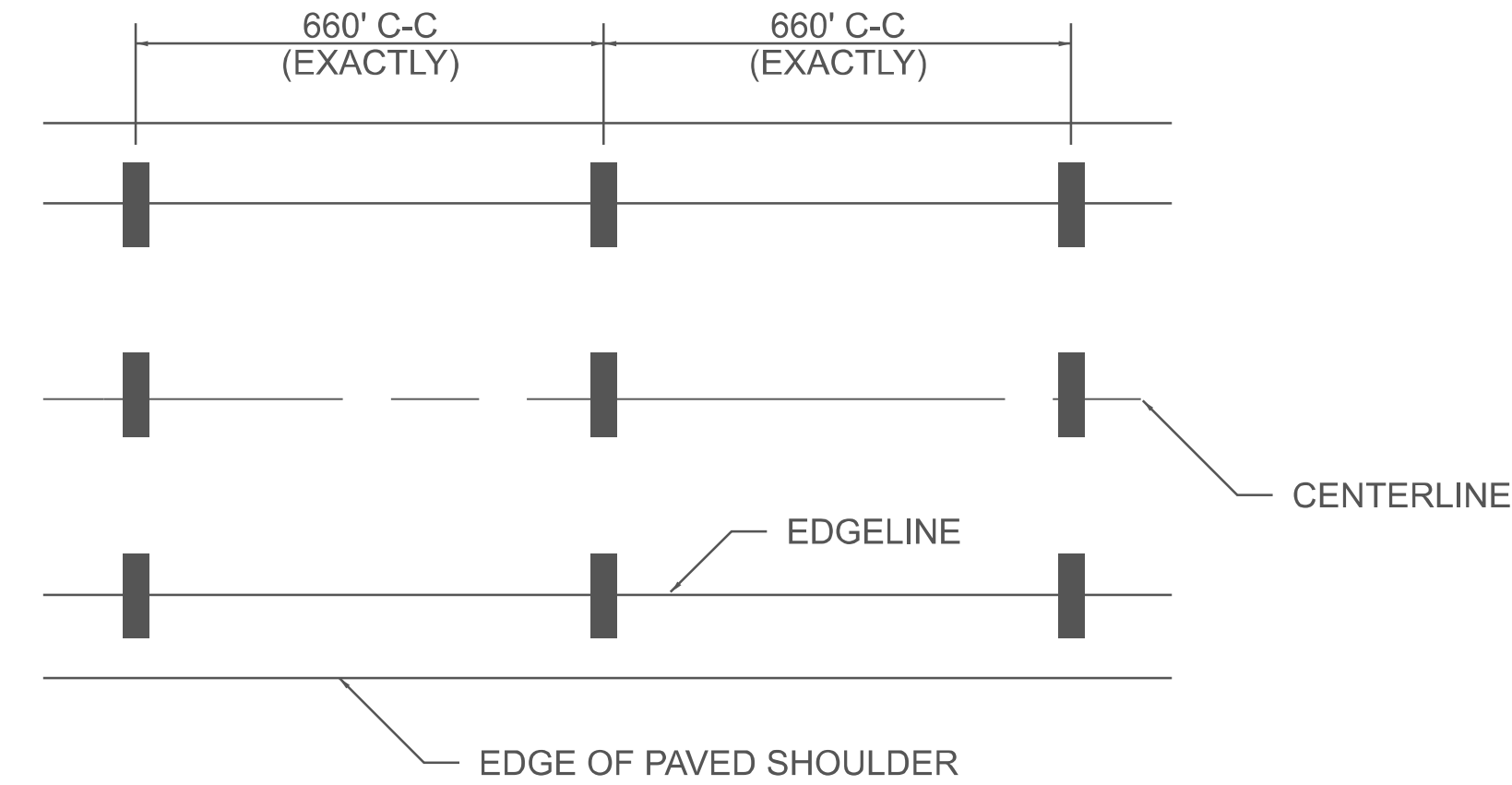


TYPICAL CONVERGENCE MARKING

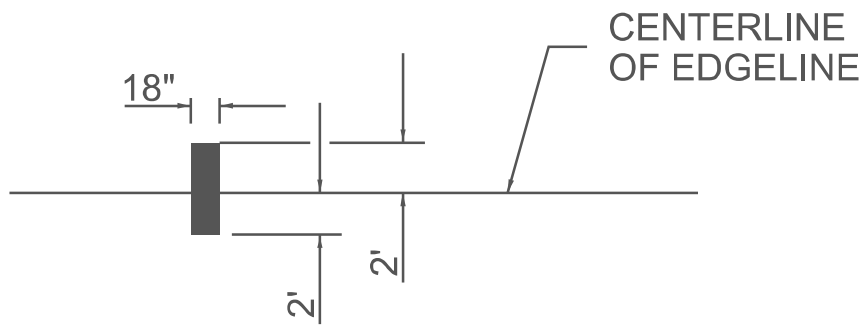


TYPICAL DIVERGENCE MARKING

AERIAL SPEED CHECK ZONES



IT WILL BE NECESSARY TO HAVE A REPRESENTATIVE OF THE STATE POLICE PRESENT SO THAT THE ACCURACY OF MEASUREMENT CAN BE ATTESTED TO IN COURT.



NOT TO SCALE

DISTRICT 7 DETAIL NO. 78000002

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	D7 BRIDGE REPAIRS 2026-3	MACON	108	38
CONTRACT NO. 74D08				
ILLINOIS FED. AID PROJECT				

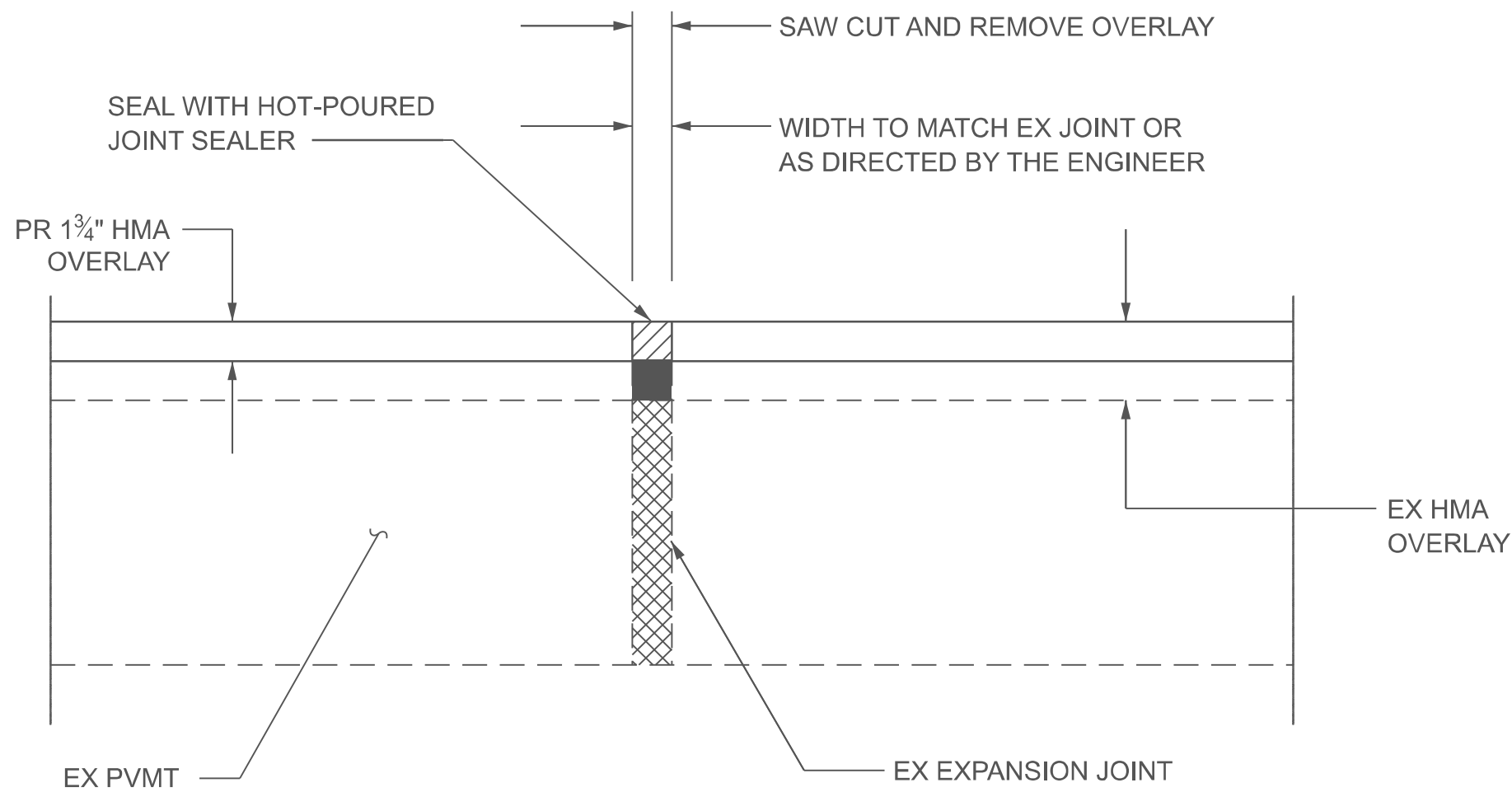


USER NAME = atn	DESIGNED - ATN	REVISED -
ESCA PROJECT NO. = 1445.01	DRAWN - ATN	REVISED -
	CHECKED - ELH	REVISED -
PLOT DATE = 12/8/2025	DATE - 01/26	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL APPLICATIONS OF INTERSTATE PAVEMENT MARKINGS

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



EXPANSION JOINT REHABILITATION DETAIL

NOTES:

- 1. THE NEW HMA INLAY SHALL BE SAWED, REMOVED, AND THE JOINT AREA CLEANED. PRIOR TO PLACING THE HOT-POURED JOINT SEALER, THE JOINT SHALL BE BLOWN OUT WITH COMPRESSED AIR.

MODEL: Details Sheet
FILE NAME: Y:\DOT\1445-01_74D08\74D08 DESIGN\CADD\Highway\CADD Sheets\ID774D08-shr-details03.dgn

EXISTING STRUCTURE:

The existing four-span structures were constructed in 1976 as F.A.I. 72 Section 58-62HB-4 at Stations 305+13.04 and 508+89.58. SN 058-0068 carries I-72 Westbound over Harristown Boulevard. SN 058-0069 carries I-72 Eastbound over Harristown Boulevard. In 2006, deck patching was performed and the bituminous wearing surfaces were replaced with microsilica concrete overlays. After that, the expansion joints were replaced at SN 058-0069. The end spans are reinforced concrete slabs, and the main spans are steel welded plate girders. The concrete vaulted abutments and pile bents are supported on concrete piles, and the piers are also supported on concrete piles. SN 058-0068 is 213'-9" back-to-back of bent caps, 58'-0" out-to-out, and is skewed 8°-44'-10" right forward. SN 058-0069 is 210'-5" back-to-back of bent caps, is tapered from 69'-0½" to 73'-2⅞" out-to-out, and is skewed 1°-29'-02" right forward.

The proposed project consists of bridge deck repairs, new concrete overlays, new bearings at the abutments, substructure repairs, and slope wall repairs. Traffic on I-72 is to be maintained utilizing stage construction. Lane closures will be used on Harristown Blvd. as necessary.

SCOPE OF WORK

1. Replace bearings at abutments.
2. Replace expansion joints at abutments with Preformed Joint Strip Seal.
3. Perform Bridge Deck Scarification 2¼".
4. Perform Deck Slab Repair.
5. Replace existing deck drains with 6" diameter Floor Drains.
6. Construct new 2½" concrete overlays.
7. Perform Diamond Grinding (Bridge Section).
8. Perform Bridge Deck Grooving (Longitudinal).
9. Apply Protective Coat.
10. Construct parapet and substructure repairs.
11. Raise crashwall elevation at piers.
12. Repair slope walls.

STRUCTURE INDEX OF SHEETS

General Plan & Elevation
General Data
Stage Construction
Temporary Concrete Barrier
Bridge Deck Patching
Expansion Joint Replacement Details
Deck Drain Details
Preformed Joint Strip Seal
Bearing Details
Parapet Repairs
Abutment Repairs
Pier Repairs
Slope Wall Repairs
Bar Splicer Assembly and Mechanical Splicer Details
Existing Bridge Plans

Sheet No. 1 of 33
Sheet No. 2 of 33
Sheet No. 3-4 of 33
Sheet No. 5 of 33
Sheet No. 6-7 of 33
Sheet No. 8-12 of 33
Sheet No. 13 of 33
Sheet No. 14 of 33
Sheet No. 15-16 of 33
Sheet No. 17-20 of 33
Sheet No. 21-22 of 33
Sheet No. 23-24 of 33
Sheet No. 25-26 of 33
Sheet No. 27 of 33
Sheet No. 28-33 of 33

DESIGN SPECIFICATIONS (new const.)

2002 AASHTO Standard Specifications
for Highway Bridges, 17th Edition

LOADING HS20-44 & ALTERNATE (new const.)

No allowance for future wearing surface

DESIGN STRESSES

FIELD UNITS
EXISTING CONSTRUCTION
fc = 1,400 psi (substructure, curbs, parapets, & approach slabs)
fc = 1,200 psi (superstructure slab)
fs = 20,000 psi (reinforcement)

NEW CONSTRUCTION
fc = 4,000 psi (concrete)
fy = 60,000 psi (reinforcement)
fy = 36,000 psi (structural steel)

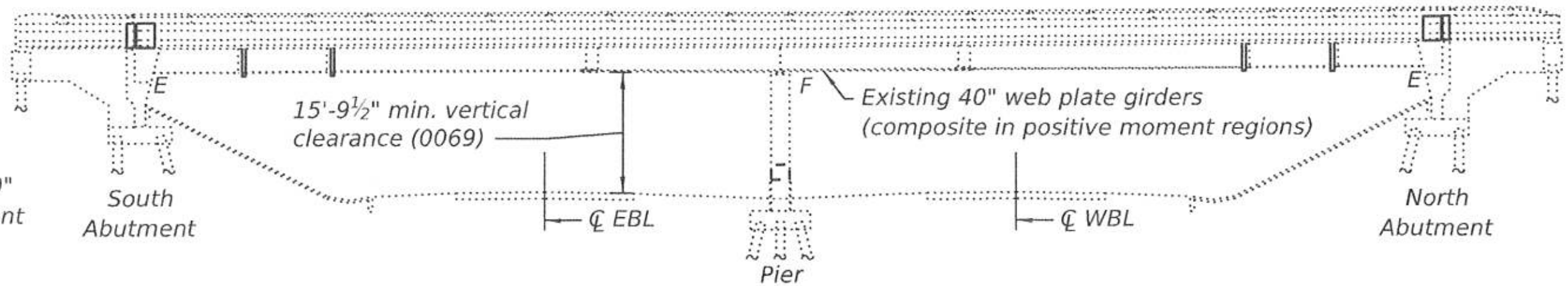


EXPIRES 11-30-26

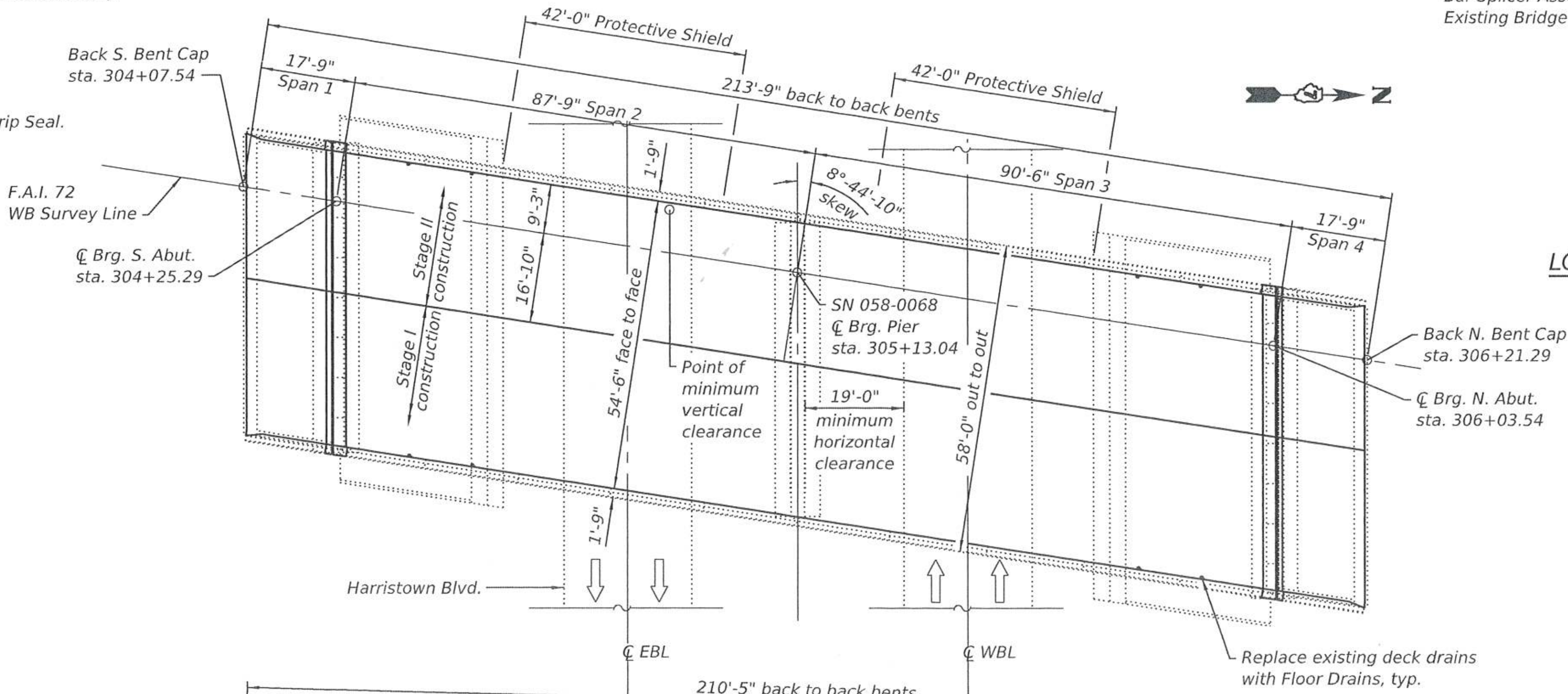
SIGNATURE

01-22-26
DATE

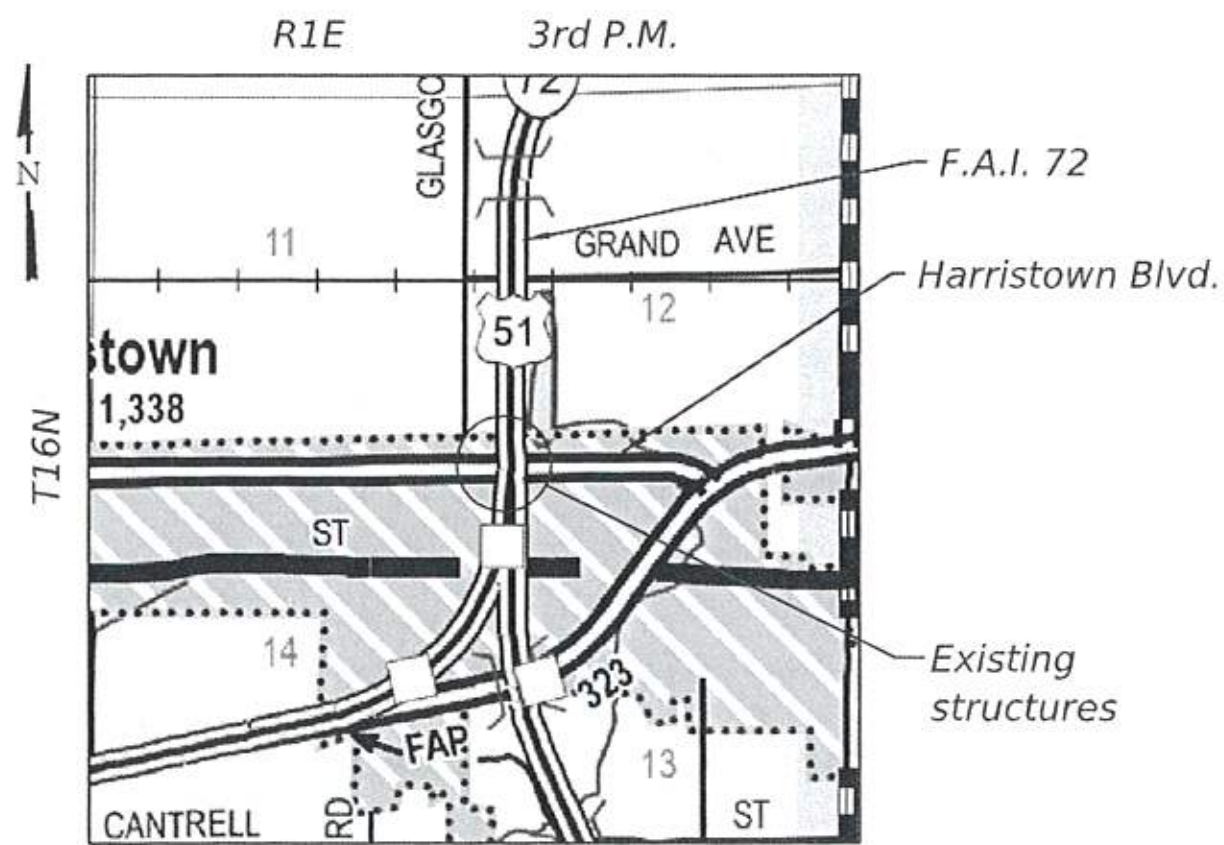
GENERAL PLAN & ELEVATION
I-72/US 51 OVER HARRISTOWN BLVD.
F.A.I. ROUTE 72
SECTION D7 BRIDGE REPAIRS 2026-3
MACON COUNTY
STATIONS 305+13.04 & 508+89.58
STRUCTURE NO. 058-0068/0069



ELEVATION



PLAN



LOCATION SKETCH

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET 1 OF 33 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	D7 BRIDGE REPAIRS 2026-3	MACON	108	40
CONTRACT NO. 74D08				
ILLINOIS FED. AID PROJECT				

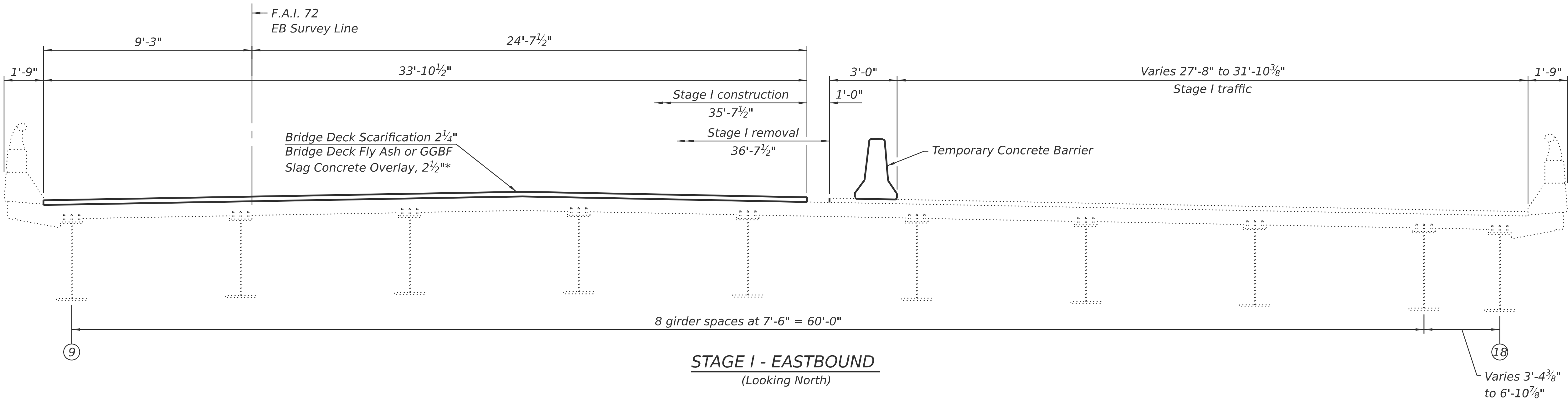
GENERAL NOTES

1. Reinforcement bars designated (E) shall be epoxy coated.
2. Plan dimensions and details relative to the existing structures have been taken from existing plans and are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of work; however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
3. Existing reinforcement bars extending into the removal area shall be cleaned, straightened, and incorporated into the new construction. Cost included in Concrete Removal. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system at the Contractor's expense.
4. Areas of deck repairs shown are estimated. The Engineer shall show actual locations and size of deck repairs on As-Built Plans.
5. The existing structural steel coating contains lead. The existing bearings contain lead plates. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.
6. No field welding is permitted except as specified in the contract documents.
7. Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose detrimental foreign material shall be removed from the surfaces in contact with concrete (SSPC-SP3 standards). Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be included in Concrete Removal.
8. The cost of deck drains to be removed is included in Deck Slab Repair.
9. All new structural steel extensions, bearing assemblies, and shim plates shall be hot dip galvanized. See special provision for "Hot Dip Galvanizing for Structural Steel."
10. Joint openings shall be adjusted according to Article 520.04 of the Std. Specs. when the deck is poured at an ambient temperature other than 50° F.
11. Removal and reinstallation of the handrail sections and support posts at both abutments will be necessary for construction of the expansion joints. The existing handrail sections and support posts shall be reused. New bolts, shim plates, and post support anchor assemblies, as detailed in the existing plans, are to be provided and installed for the replacement of the handrail sections. This work and all materials shall be included in the contract unit price for Concrete Superstructure.
12. Full depth deck slab repairs performed in the exterior bays of the bridge deck (between the parapet walls and the first interior beams) shall be limited to individual lengths no greater than 10'. In these portions of the deck, repair areas longer than 10' shall be divided into segments not greater than 10' in length, and the segments shall be poured in alternating sequence. Subsequent segments repaired in sequence shall not be removed until 72 hours have elapsed from the end of the previous, adjacent pour, and the adjacent pour shall have attained a minimum modulus of rupture of 650 psi.
13. Protective Coat shall be applied to areas of Concrete Superstructure consisting of the front faces and tops of the parapets and the expansion joint concrete. Protective Coat shall also be applied to the tops of the new concrete overlays and new portions of concrete slope walls.
14. Up to ¼ inch is to be ground off the proposed concrete overlays.
15. The quantities and locations of Structural Repair of Concrete are approximated. Actual quantities and locations are to be determined in the field by the Engineer. This work is intended to repair only areas of severe deterioration. Some minor deteriorated areas may be left unrepaired. Do not disturb the bearings during the repair of adjacent concrete areas.
16. Existing structural steel that will be in contact with new structural steel shall be cleaned and painted prior to erection as required by the Special Provision "Cleaning and Painting Contact Surface Areas of Existing Steel Structures" and the Standard Specifications. Cost is included with Furnishing and Erecting Structural Steel.
17. All structural steel shall conform to AASHTO Classification M-270 Gr. 36, unless otherwise noted.

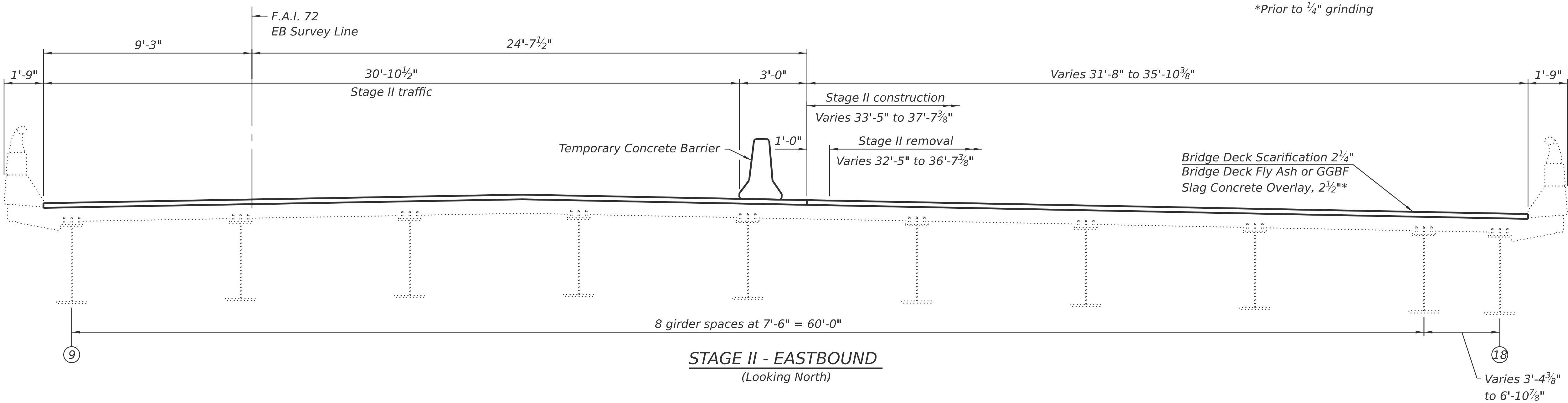
TOTAL BILL OF MATERIAL

ITEM	UNIT	SN 058-0068	SN 058-0069	TOTAL
Removal and Disposal of Unsuitable Material	Cu. Yd.	15	22	37
Subbase Granular Material, Type B	Ton	30	45	75
Concrete Removal	Cu. Yd.	16.2	18.8	35.0
Protective Shield	Sq. Yd.	542	633	1,175
Floor Drains	Each	8	4	12
Concrete Structures	Cu. Yd.	7.0	8.7	15.7
Concrete Superstructure	Cu. Yd.	15.7	18.8	34.5
Protective Coat	Sq. Yd.	1,366	1,665	3,031
Furnishing and Erecting Structural Steel	Pound	3,597	4,490	8,087
Reinforcement Bars, Epoxy Coated	Pound	2,870	3,860	6,730
Bar Splicers	Each	20	20	40
Preformed Joint Strip Seal	Foot	114.5	139.5	254
Elastomeric Bearing Assembly, Type I	Each	16	20	36
Anchor Bolts, 1"	Each	28	36	64
Bridge Deck Grooving (Longitudinal)	Sq. Yd.	851	1,144	1,995
Slope Wall Repair	Sq. Yd.	66	82	148
Slope Wall Slurry Pumping	Cu. Yd.	20	5	25
Jack and Remove Existing Bearings	Each	16	20	36
Bridge Deck Fly Ash or GGBF Slag Concrete Overlay, 2½"	Sq. Yd.	1,244	1,519	2,763
Bridge Deck Scarification 2¼"	Sq. Yd.	1,244	1,519	2,763
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	Sq. Ft.	274.9	263.9	538.8
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	10	11	21
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	65	145	210
Diamond Grinding (Bridge Section)	Sq. Yd.	1,194	1,482	2,676

MODEL: Sheet
FILE NAME: Y:\DOT11445-01_74D08\74D08 DESIGN\CADD\SP SN 058-0068-0069\Common sheets\0580068-D774D08-02-GenNotes.dgn



STAGE I - EASTBOUND
(Looking North)



STAGE II - EASTBOUND
(Looking North)

(Sheet 2 of 2)



USER NAME = nhc	DESIGNED - ELH 07/25	REVISED -
ESCA PROJECT NO. = 1445.01	CHECKED - RDP 07/25	REVISED -
PLOT SCALE = 0.2'"/in.	DRAWN - NHC 01/26	REVISED -
PLOT DATE = 1/20/2026	CHECKED - ELH 01/26	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

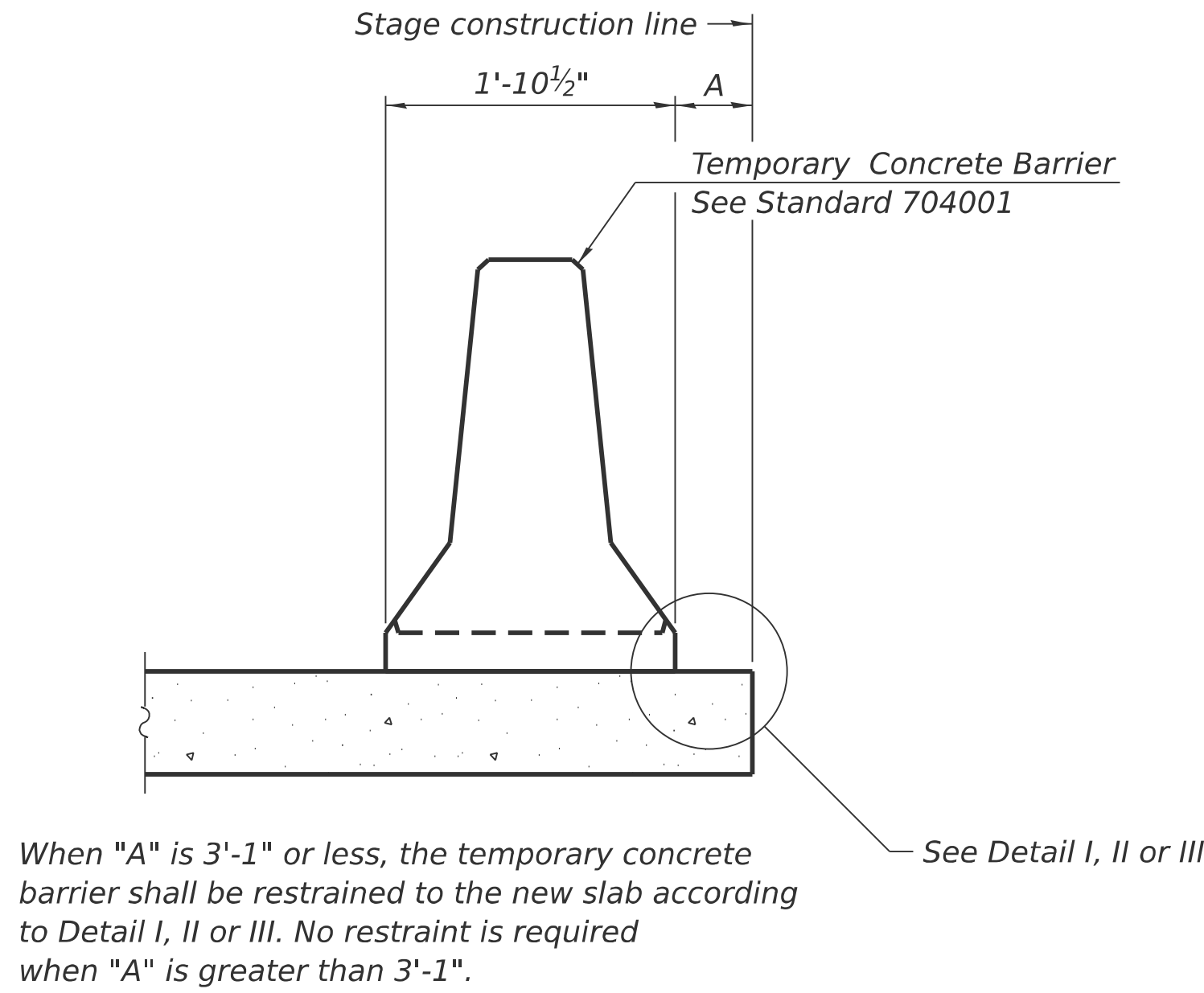
STAGE CONSTRUCTION
SN 058-0069 (EB)

SHEET 4 OF 33 SHEETS

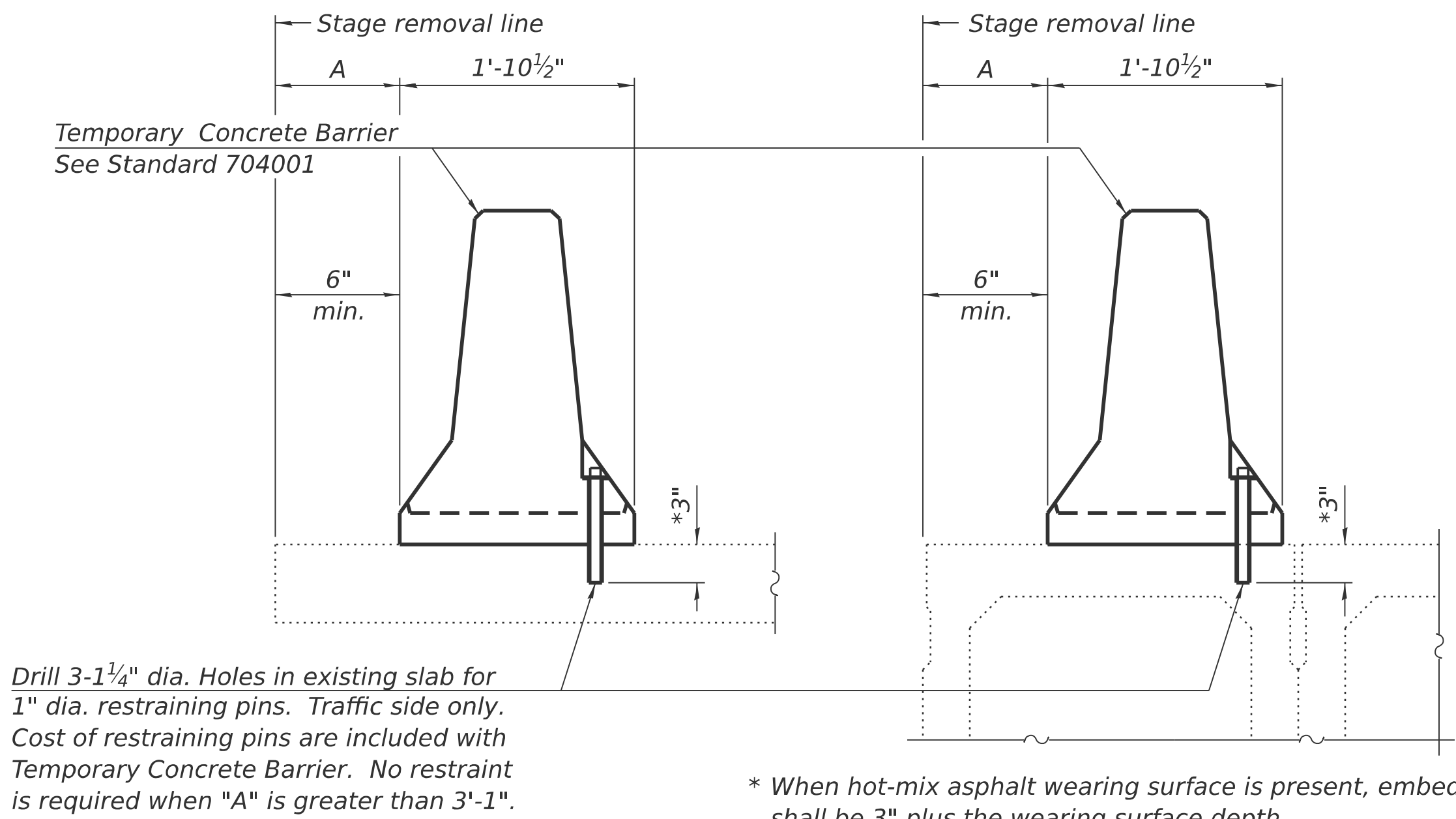
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	D7 BRIDGE REPAIRS 2026-3	MACON	108	43
CONTRACT NO. 74D08				
ILLINOIS FED. AID PROJECT				

MODEL: Sheet
FILE NAME: Y:\DOT11445-01_74D08\74D08 DESIGN\CADD\SP SN 058-0068-0069\Common sheets\0580068-D774D08-04-StageCon(EB).dgn

MODEL: Sheet
FILE NAME: Y:\DOT11445-01_74D08\74D08 DESIGN\CADD\SP SN 058-0068-0069\Common sheets\0580068-D774D08-05-TCB.dgn

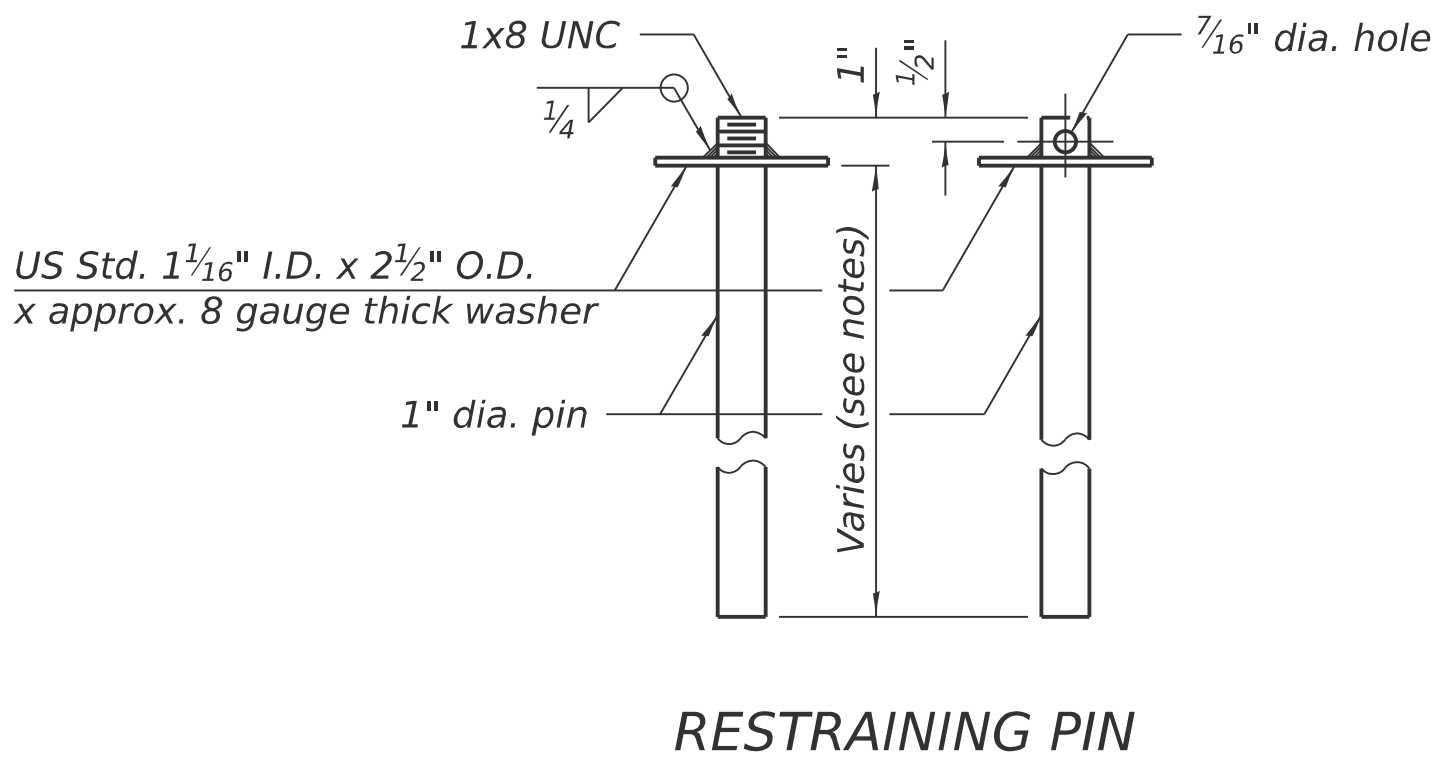


NEW SLAB OR NEW DECK BEAM

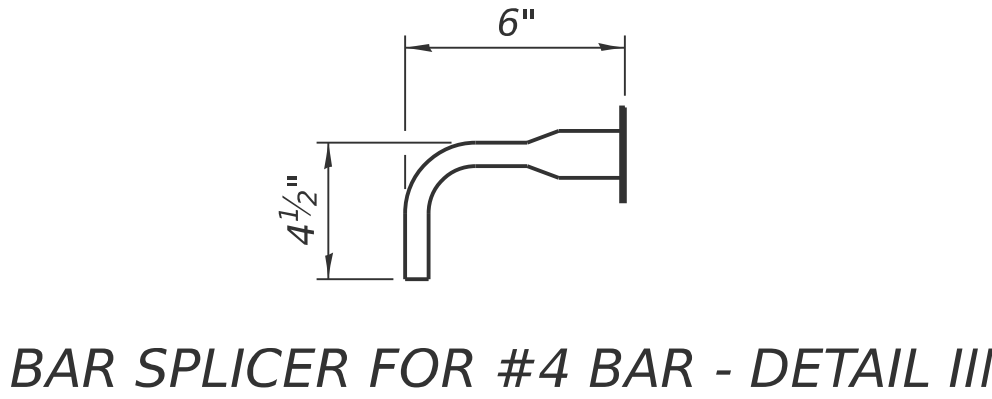
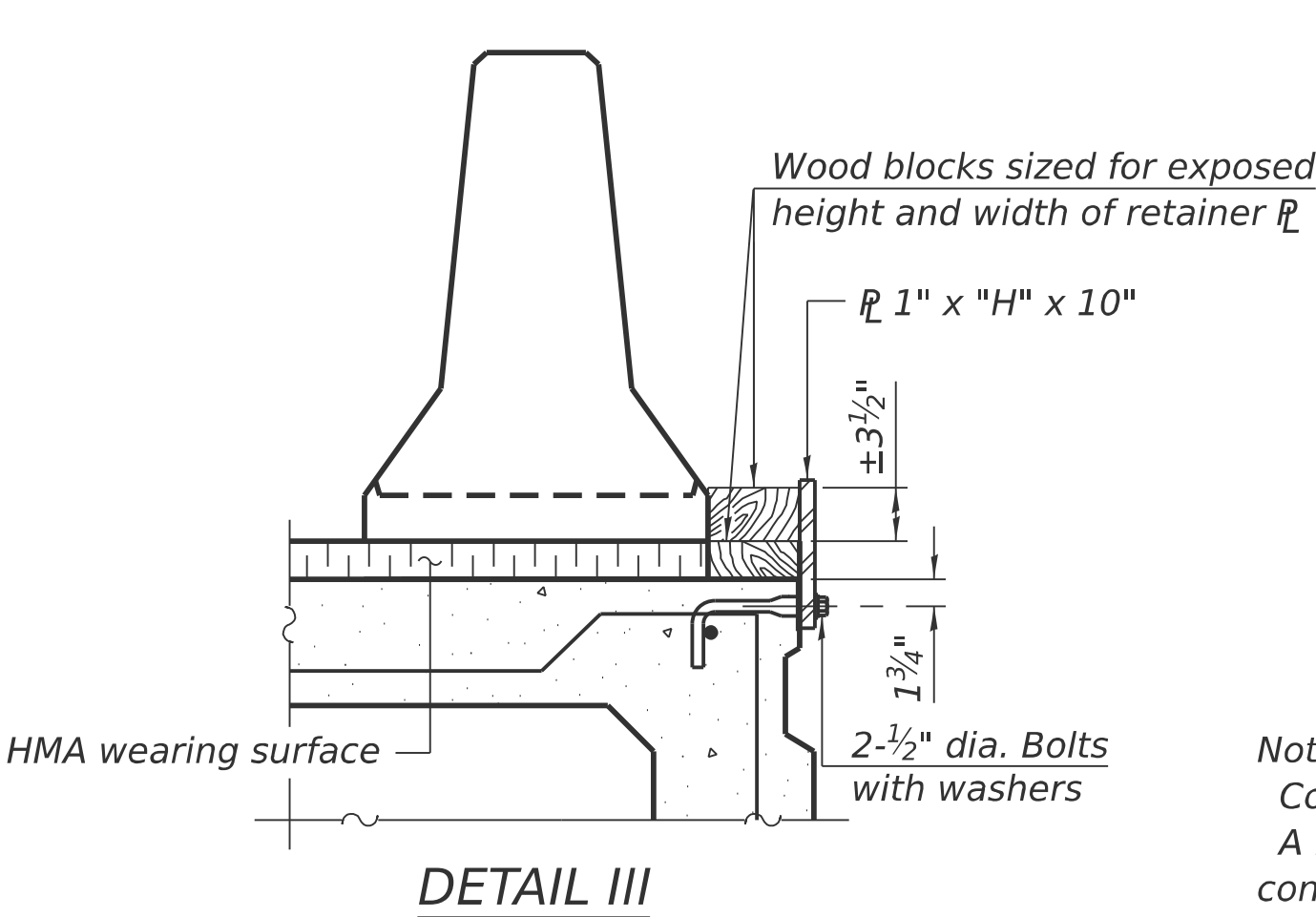
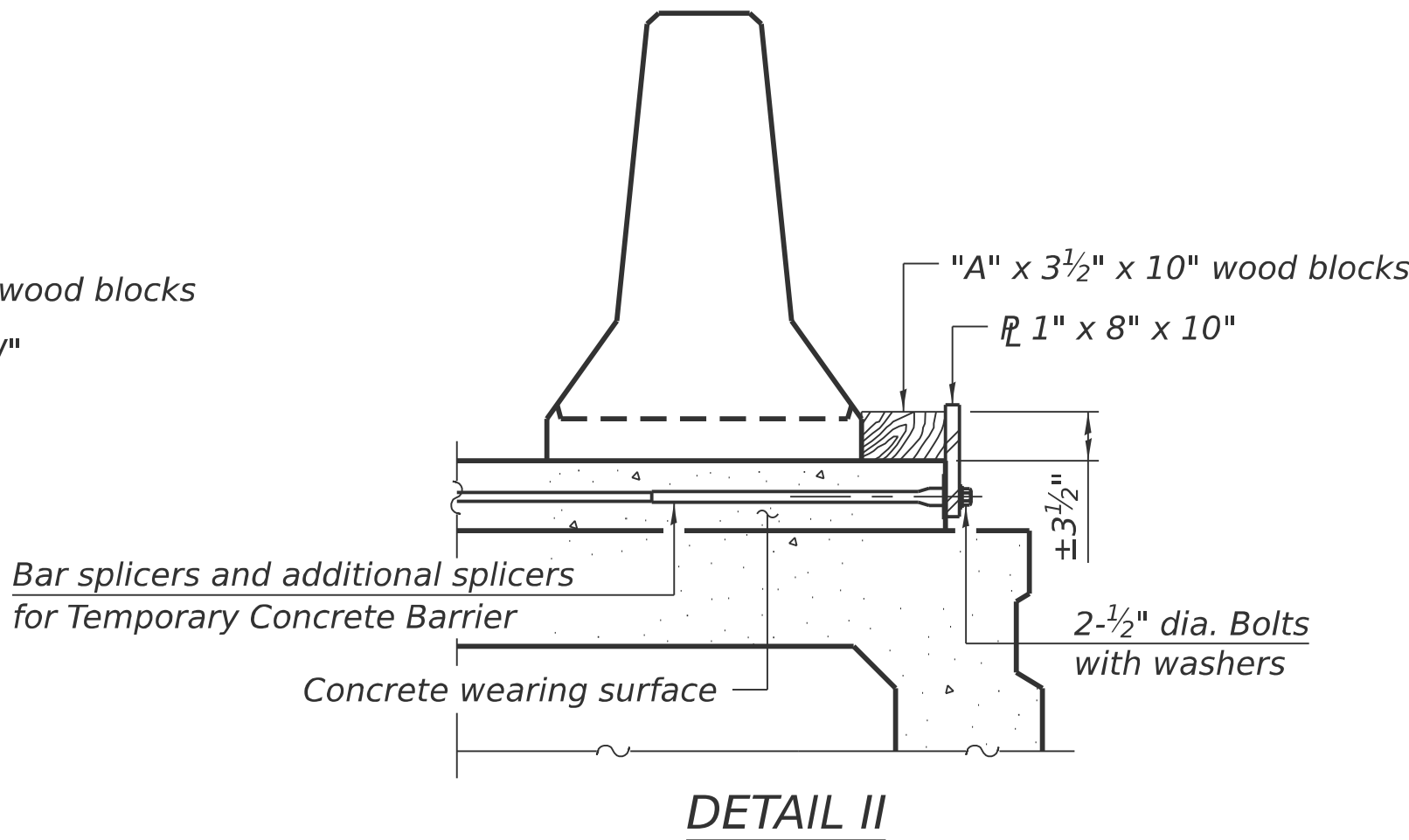
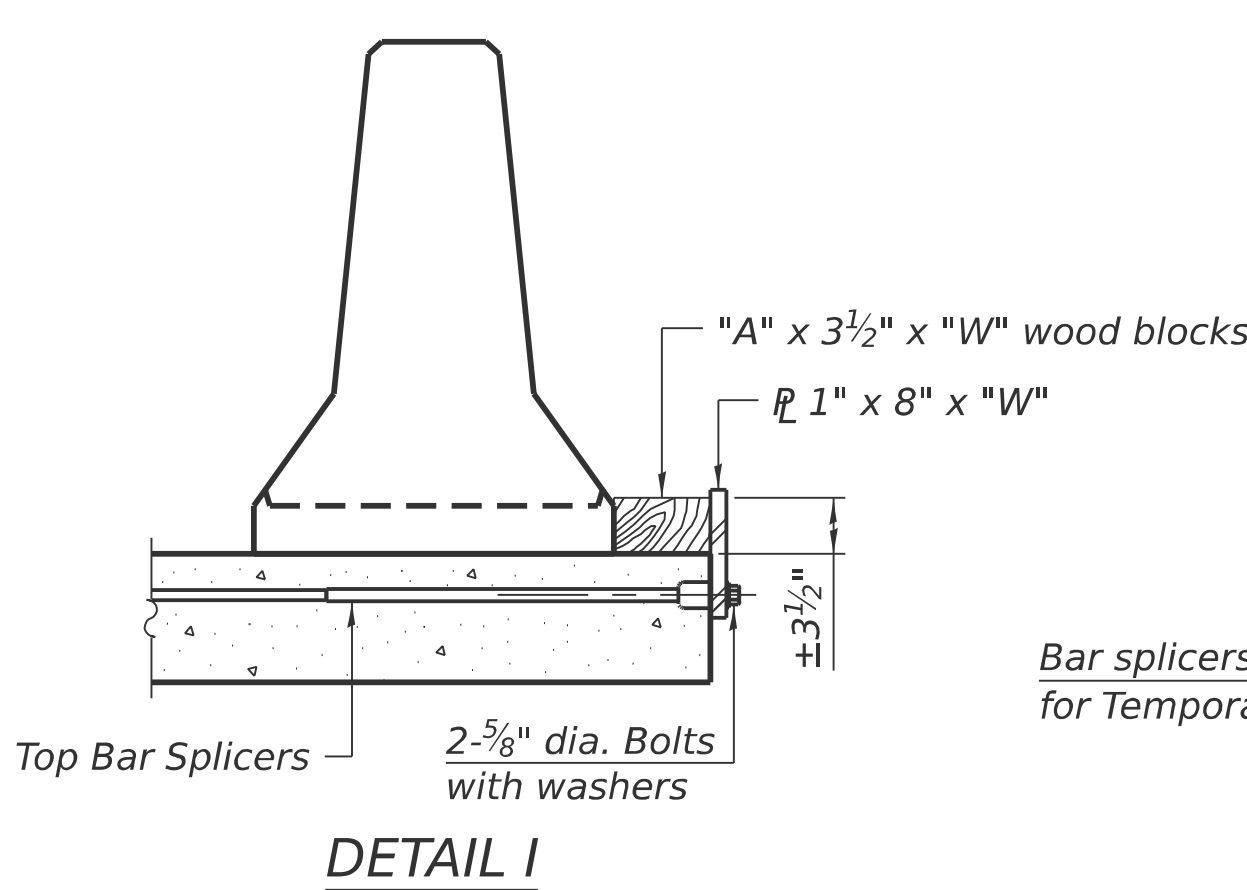


EXISTING SLAB

EXISTING DECK BEAM



RESTRAINING PIN



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

Detail I - Installation for a new bridge deck or bridge slab.

Detail II - Installation for a new deck beam with an initial concrete wearing surface. Additional bar splicers shall be provided at 6'-0" centers and paired with the bar splicers of the concrete wearing surface reinforcement to accommodate the installation of the retainer assemblies. The cost of the additional bar splicers is included with the concrete wearing surface.

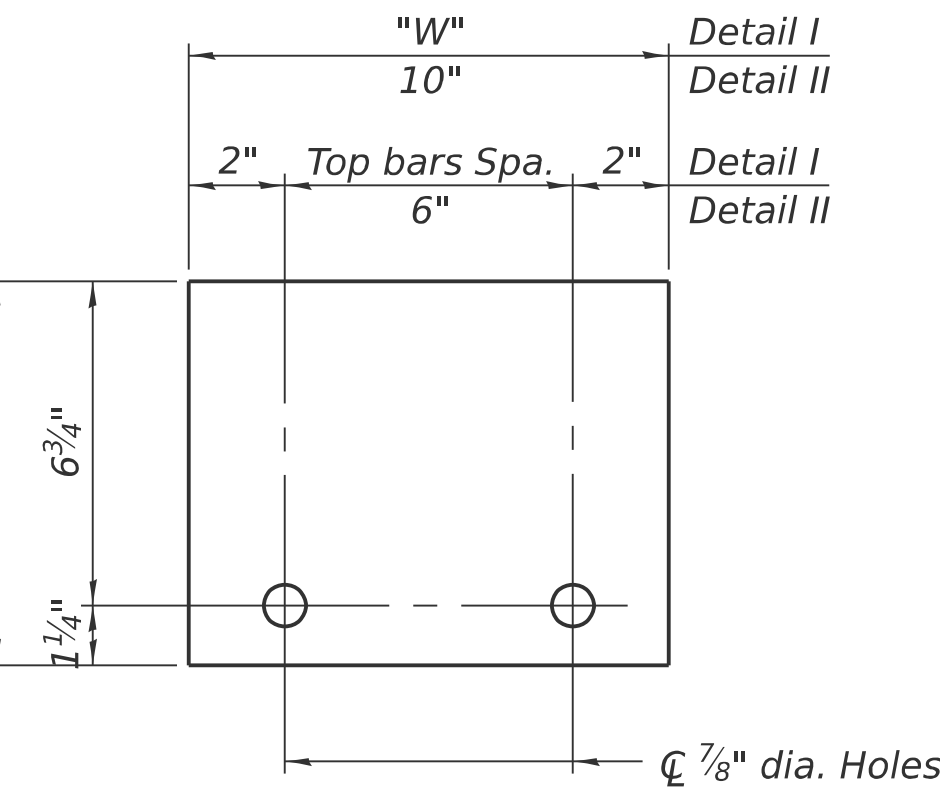
Detail III - Installation for a new deck beam with no initial wearing surface or with an initial hot-mix asphalt (HMA) wearing surface present. The deck beam directly beneath the temporary concrete barrier shall be fabricated with bar splicer inserts in the side of the beam, as detailed, to accommodate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

RAILING CRITERIA

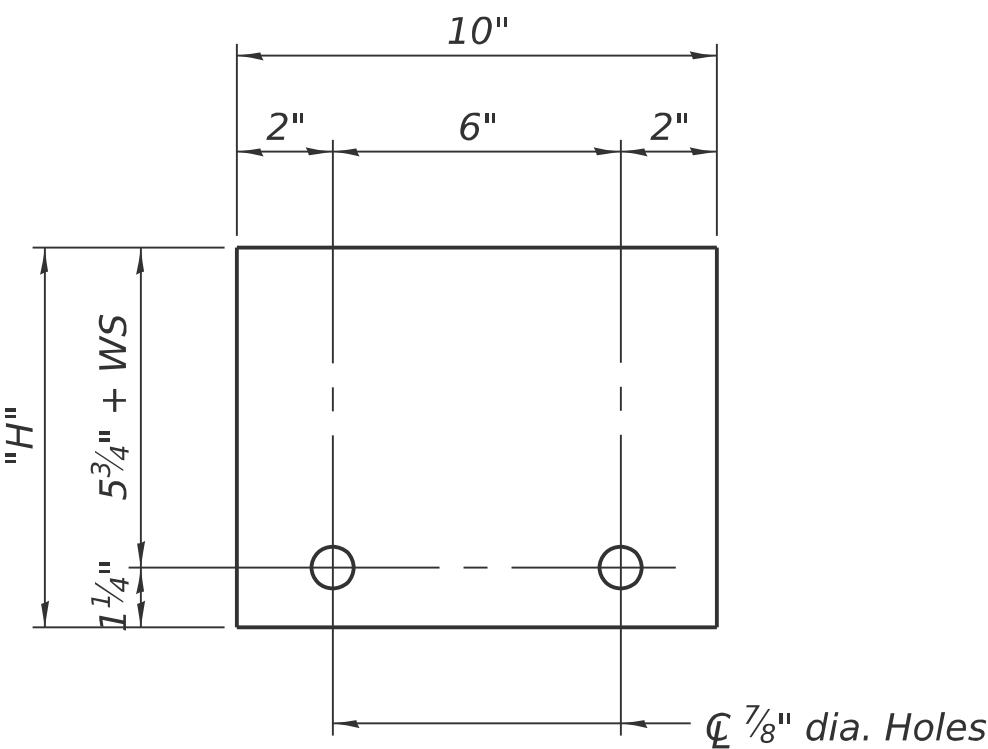
NCHRP 350 Test Level	3
Railing Weight (plf)	440

R-27

5-15-2023



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



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

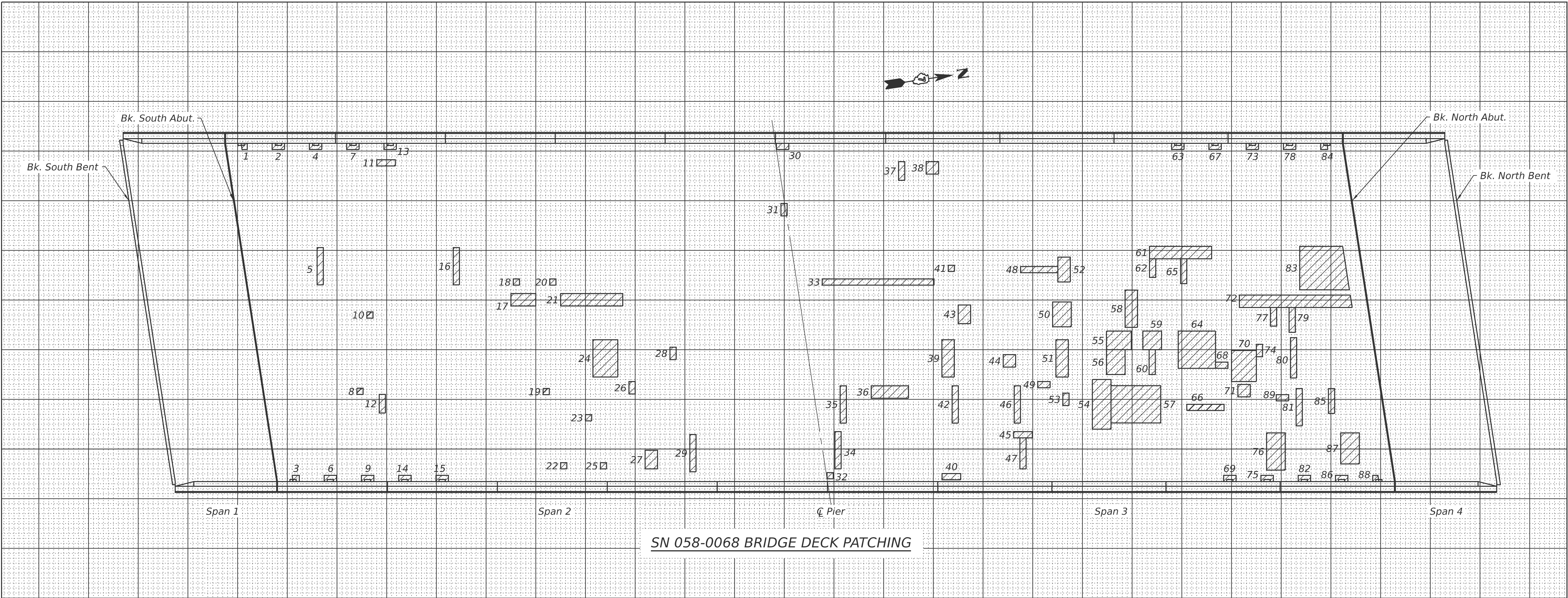
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CONCRETE BARRIER
SN 058-0068 (WB) & SN 058-0069 (EB)

SHEET 5 OF 33 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	D7 BRIDGE REPAIRS 2026-3	MACON	108	44
CONTRACT NO. 74D08				
ILLINOIS FED. AID PROJECT				

MODEL: Sheet
FILE NAME: Y:\DOT\1445-01_74D08\74D08 DESIGN\CADD\SP SN 058-0068-0069\Common sheets\0580068-D774D08-06-DeckPatching(WB).dgn



SN 058-0068 BRIDGE DECK PATCHING

PATCH	SIZE (FEET)		DECK SLAB REPAIR (FD, TY I)	DECK SLAB REPAIR (FD, TY II)
NO.	LENGTH	WIDTH	SQ YD	SQ YD
1	1	1	0.1	
2	2	1	0.2	
3	1	1	0.1	
4	2	1	0.2	
5	1	6		0.7
6	2	1	0.2	
7	2	1	0.2	
8	1	1	0.1	
9	2	1	0.2	
10	1	1	0.1	
11	3	1	0.3	
12	1	3	0.3	
13	2	1	0.2	
14	2	1	0.2	
15	2	1	0.2	
16	1	6		0.7
17	4	2		0.9
18	1	1	0.1	
19	1	1	0.1	
20	1	1	0.1	
21	10	2		2.2
22	1	1	0.1	
23	1	1	0.1	

PATCH	SIZE (FEET)		DECK SLAB REPAIR (FD, TY I)	DECK SLAB REPAIR (FD, TY II)
NO.	LENGTH	WIDTH	SQ YD	SQ YD
24	4	6		2.7
25	1	1	0.1	
26	1	2	0.2	
27	2	3		0.7
28	1	2	0.2	
29	1	6		0.7
30	2	1	0.2	
31	1	2	0.2	
32	1	1	0.1	
33	18	1		2.0
34	1	6		0.7
35	1	6		0.7
36	6	2		1.3
37	1	3	0.3	
38	2	2	0.4	
39	2	6		1.3
40	3	1	0.3	
41	1	1	0.1	
42	1	6		0.7
43	2	3		0.7
44	2	2	0.4	
45	3	1		0.3
46	1	6		0.7

PATCH	SIZE (FEET)		DECK SLAB REPAIR (FD, TY I)	DECK SLAB REPAIR (FD, TY II)
NO.	LENGTH	WIDTH	SQ YD	SQ YD
47	1	5		0.6
48	6	1		0.7
49	2	1	0.2	
50	3	4		1.3
51	2	6		1.3
52	2	4		0.9
53	1	2	0.2	
54	3	8		2.7
55	4	3		1.3
56	3	4		1.3
57	8	6		5.3
58	2	6		1.3
59	3	3		1.0
60	1	4		0.4
61	10	2		2.2
62	1	3		0.3
63	2	1	0.2	
64	6	6		4.0
65	1	4		0.4
66	6	1		0.7
67	2	1	0.2	
68	2	1		0.2
69	2	1	0.2	

PATCH	SIZE (FEET)		DECK SLAB REPAIR (FD, TY I)	DECK SLAB REPAIR (FD, TY II)
NO.	LENGTH	WIDTH	SQ YD	SQ YD
70	4	5		2.2
71	2	2	0.4	
72	18	2		4.0
73	2	1	0.2	
74	1	2		0.2
75	2	1	0.2	
76	3	6		2.0
77	1	3		0.3
78	2	1	0.2	
79	1	4		0.4
80	1	6.5		0.7
81	1	6		0.7
82	2	1	0.2	
83	8	7		6.2
84	1	1	0.1	
85	1	4	0.4	
86	2	1	0.2	
87	3	5		1.7
88	1	1	0.1	
89	2	1	0.2	
TOTAL ROUNDS TO:			10.0	65.0

THE LOCATIONS AND SIZES SHOWN GRAPHICALLY ABOVE ARE APPROXIMATE. SEE THIS TABLE FOR ACTUAL SIZES.



DATE OF SURVEY: 06-03-25
SURVEY BY: ESCA CONSULTANTS
METHOD OF SURVEY: VISUAL

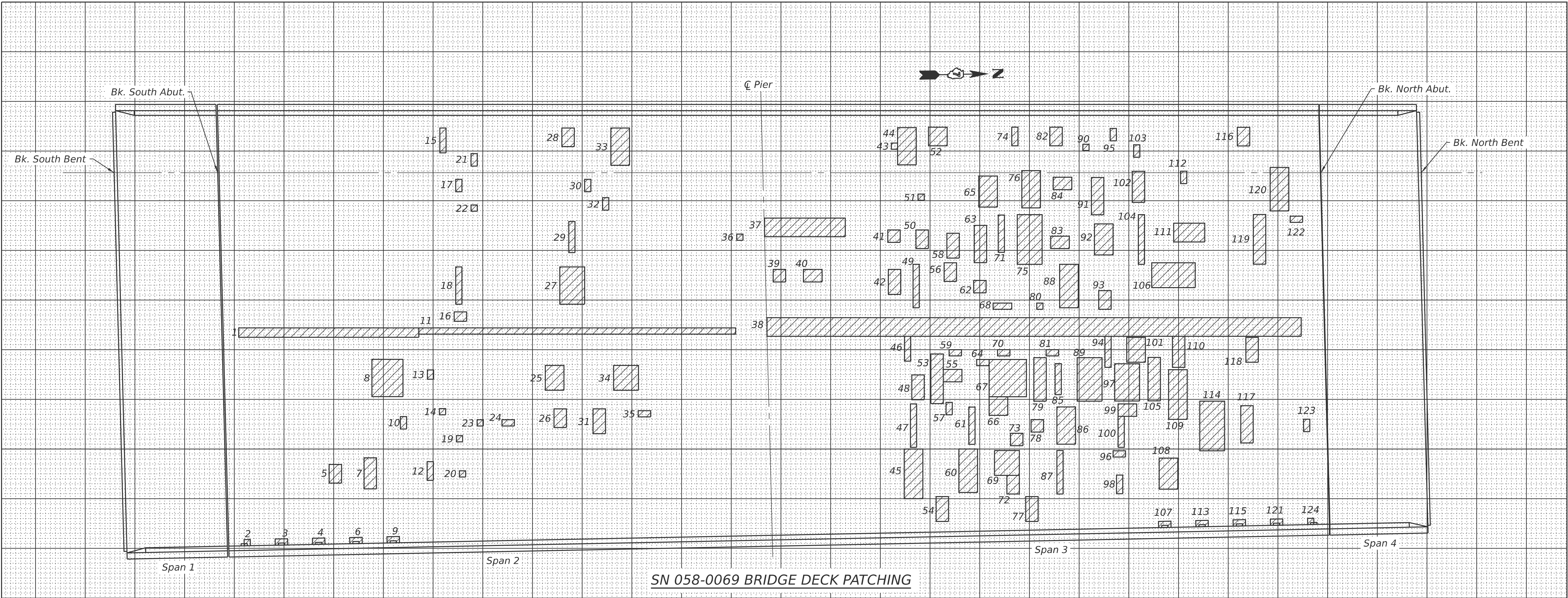
ESTIMATED
PAY QUANTITIES:

DECK SLAB REPAIR
(FULL DEPTH, TYPE I)
10.0 SQ YD

DECK SLAB REPAIR
(FULL DEPTH, TYPE II)
65.0 SQ YD

(Sheet 1 of 2)

MODEL: Sheet
FILE NAME: Y:\DOT\1445-01_74D08\74D08 DESIGN\CADD\SP SN 058-0068-0069\Common sheets\0580068-0774D08-07-DeckPatching(EB).dgn



SN 058-0069 BRIDGE DECK PATCHING

PATCH	SIZE (FEET)		DECK SLAB REPAIR (FD, TY I)	DECK SLAB REPAIR (FD, TY II)
NO.	LENGTH	WIDTH	SQ YD	SQ YD
1	29	1.5		4.8
2	1	1	0.1	
3	2	1	0.2	
4	2	1	0.2	
5	2	3		0.7
6	2	1	0.2	
7	2	5		1.1
8	5	6		3.3
9	2	1	0.2	
10	1	2	0.2	
11	51	1		5.7
12	1	3	0.3	
13	1	2	0.2	
14	1	1	0.1	
15	1	4	0.4	
16	2	1.5	0.3	
17	1	2	0.2	
18	1	6		0.7
19	1	1	0.1	
20	1	1	0.1	
21	1	2	0.2	
22	1	1	0.1	
23	1	1	0.1	
24	2	1	0.2	
25	3	4		1.3

PATCH	SIZE (FEET)		DECK SLAB REPAIR (FD, TY I)	DECK SLAB REPAIR (FD, TY II)
NO.	LENGTH	WIDTH	SQ YD	SQ YD
26	2	3		0.7
27	4	6		2.7
28	2	3		0.7
29	1	5		0.6
30	1	2	0.2	
31	2	4		0.9
32	1	2	0.2	
33	3	6		2.0
34	4	4		1.8
35	2	1	0.2	
36	1	1	0.1	
37	13	3		4.3
38	86	3		28.7
39	2	2	0.4	
40	3	2		0.7
41	2	2	0.4	
42	2	4		0.9
43	1	1	0.1	
44	3	6		2.0
45	3	8		2.7
46	1	4	0.4	
47	1	7		0.8
48	2	4		0.9
49	1	7		0.8
50	2	3		0.7

PATCH	SIZE (FEET)		DECK SLAB REPAIR (FD, TY I)	DECK SLAB REPAIR (FD, TY II)
NO.	LENGTH	WIDTH	SQ YD	SQ YD
51	1	1	0.1	
52	3	3		1.0
53	2	8		1.8
54	2	4		0.9
55	3	2		0.7
56	2	3		0.7
57	1	2	0.2	
58	2	4		0.9
59	2	1	0.2	
60	4	7		3.1
61	1	6		0.7
62	2	2	0.4	
63	2	6		1.3
64	2	1		0.2
65	3	5		1.7
66	3	3		1.0
67	6	6		4.0
68	3	1	0.3	
69	4	4		1.8
70	2	1	0.2	
71	1	6		0.7
72	2	3		0.7
73	2	2	0.4	
74	1	3	0.3	
75	4	8		3.6

PATCH	SIZE (FEET)		DECK SLAB REPAIR (FD, TY I)	DECK SLAB REPAIR (FD, TY II)
NO.	LENGTH	WIDTH	SQ YD	SQ YD
76	3	6		2.0
77	2	4		0.9
78	2	2	0.4	
79	2	7		1.6
80	1	1	0.1	
81	2	1	0.2	
82	2	3		0.7
83	3	2		0.7
84	3	2		0.7
85	1	5		0.6
86	3	6		2.0
87	1	7		0.8
88	3	7		2.3
89	4	7		3.1
90	1	1	0.1	
91	2	6		1.3
92	3	5		1.7
93	2	3		0.7
94	1	5		0.6
95	1	2	0.2	
96	2	1	0.2	
97	4	6		2.7
98	1	3	0.3	
99	3	2		0.7
100	1	5		0.6

PATCH	SIZE (FEET)		DECK SLAB REPAIR (FD, TY I)	DECK SLAB REPAIR (FD, TY II)
NO.	LENGTH	WIDTH	SQ YD	SQ YD
101	3	4		1.3
102	2	5		1.1
103	1	2	0.2	
104	1	8		0.9
105	2	7		1.6
106	7	4		3.1
107	2	1	0.2	
108	3	5		1.7
109	3	8		2.7
110	2	5		1.1
111	5	3		1.7
112	1	2	0.2	
113	2	1	0.2	
114	4	8		3.6
115	2	1	0.2	
116	2	3		0.7
117	2	6		1.3
118	2	4		0.9
119	2	8		1.8
120	3	7		2.3
121	2	1	0.2	
122	2	1	0.2	
123	1	2	0.2	
124	1	1	0.1	
TOTAL ROUNDS TO:			11.0	145.0

THE LOCATIONS AND SIZES SHOWN GRAPHICALLY ABOVE ARE APPROXIMATE. SEE THIS TABLE FOR ACTUAL SIZES.



DATE OF SURVEY: 06-03-25
SURVEY BY: ESCA CONSULTANTS
METHOD OF SURVEY: VISUAL

ESTIMATED
PAY QUANTITIES:

DECK SLAB REPAIR
(FULL DEPTH, TYPE I)
11.0 SQ YD

DECK SLAB REPAIR
(FULL DEPTH, TYPE II)
145.0 SQ YD

(Sheet 2 of 2)

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	D7 BRIDGE REPAIRS 2026-3	MACON	108	46
CONTRACT NO. 74D08				
ILLINOIS FED. AID PROJECT				



USER NAME = nhc
ESCA PROJECT NO. = 1445.01
PLOT SCALE = 0.2" = 1' / in.
PLOT DATE = 1/20/2026

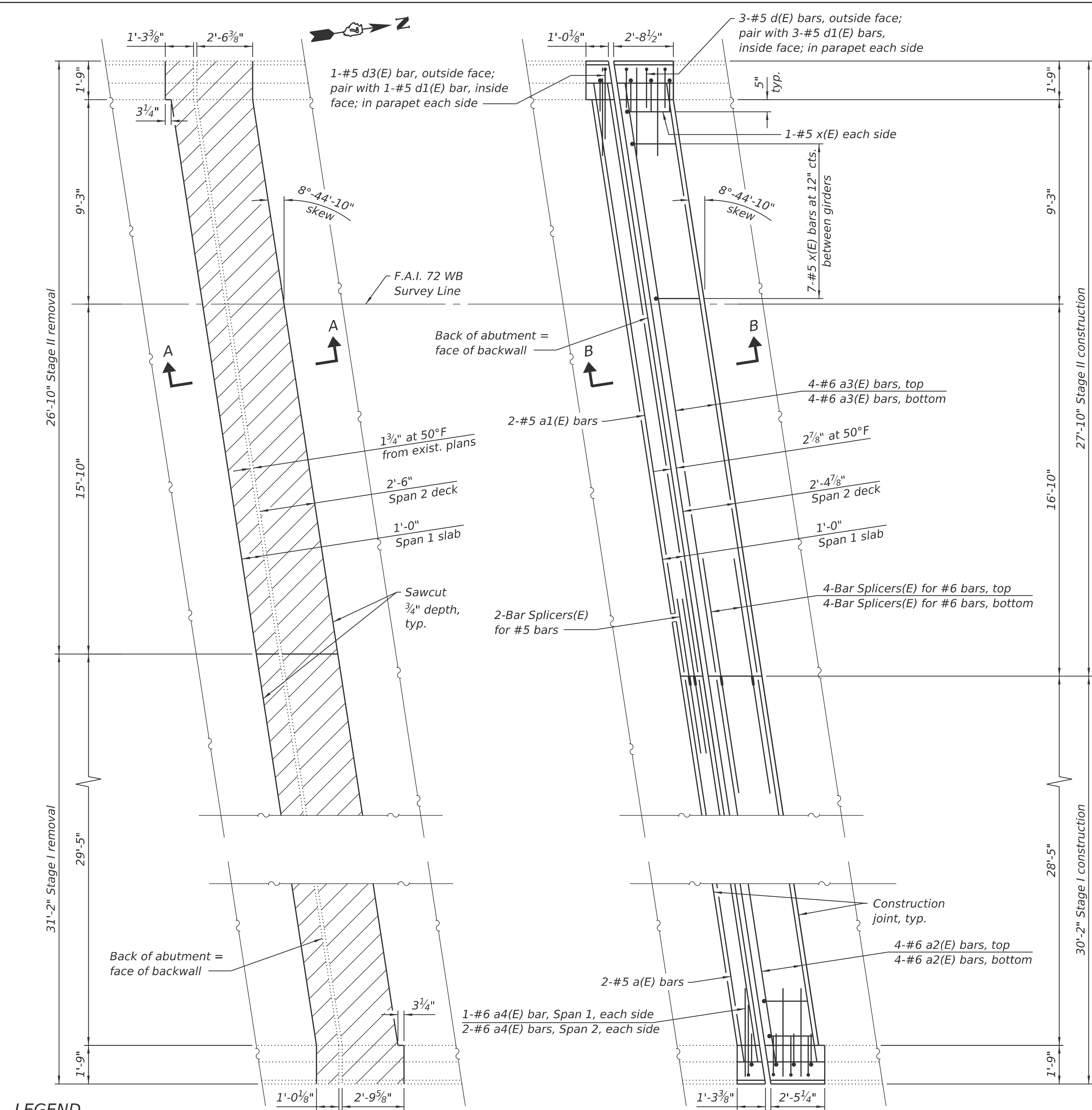
DESIGNED	-	ELH	07/25	REVISED	-
CHECKED	-	RDP	07/25	REVISED	-
DRAWN	-	NHC	07/25	REVISED	-
CHECKED	-	ELH	07/25	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE DECK PATCHING
SN 058-0069 (EB)

SHEET 7 OF 33 SHEETS

MODEL: Sheet
FILE NAME: Y:\DOT\1445-01_74D08\74D08 DESIGN\CADD\SP SN 058-0068-0069\Common sheets\0580068-D774D08-08-Expansion\IDtIs.dgn



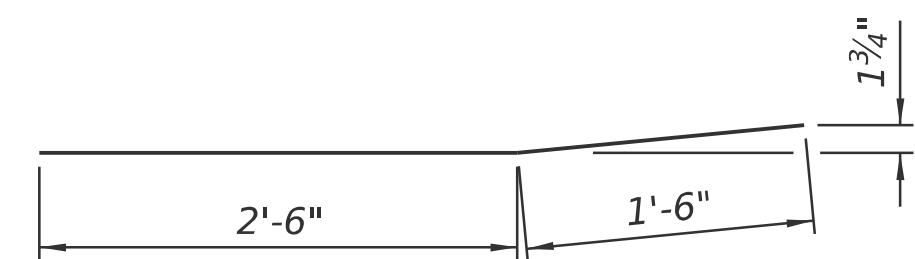
LEGEND

Concrete Removal

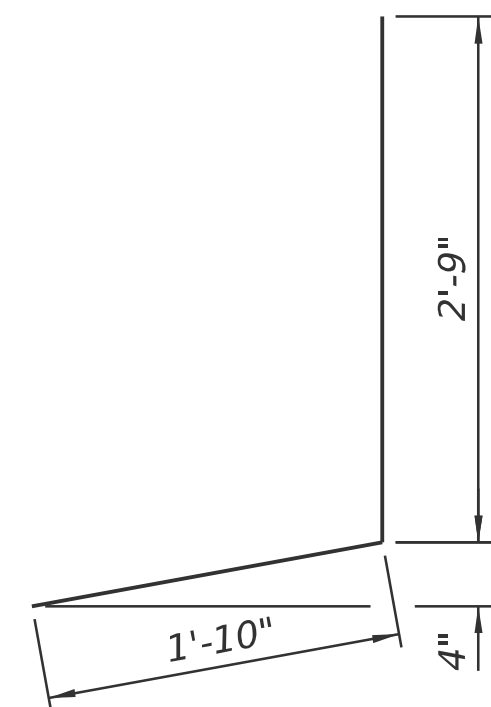
SN 058-0068 EXISTING PARTIAL PLAN
(South Abutment shown, North Abutment similar)

SN 058-0068 PROPOSED PARTIAL PLAN
(South Abutment shown, North Abutment similar)

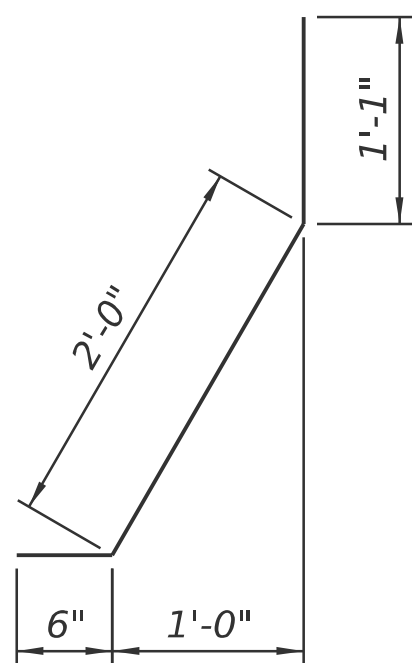
Notes:
For Section A-A and Section B-B see Sheet 11 of 33.
Trim ends of existing longitudinal reinforcement in decks and parapets to provide minimum clearance for the expansion joint. Cost is included in Concrete Removal.



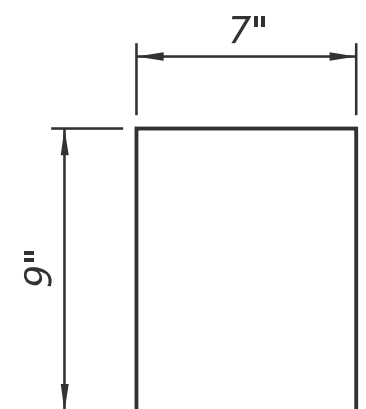
BAR a4(E)



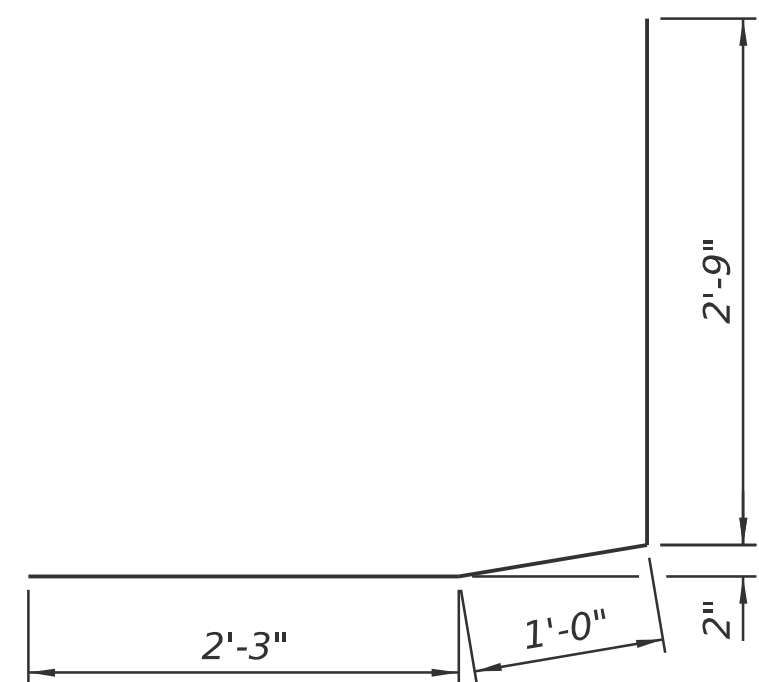
BAR d(E)



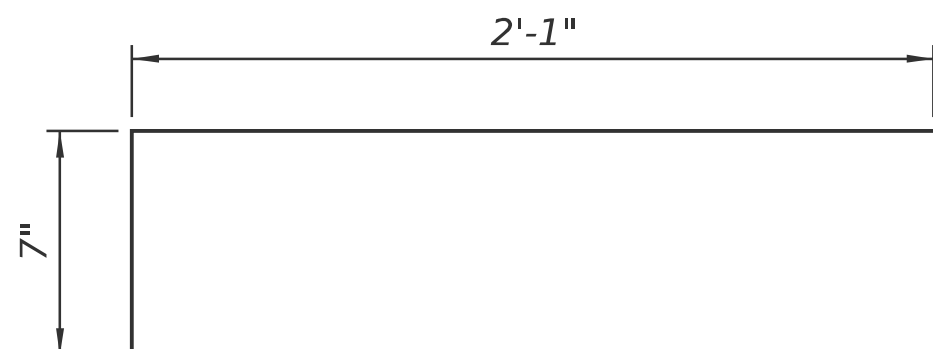
BAR d1(E)



BAR d2(E)



BAR d3(E)



BAR x(E)

SN 058-0068 BILL OF MATERIAL (For Two Abutments)

Bar	Number		Total	Size	Length	Shape
	Stage I	Stage II				
a(E)	4	0	4	#5	29'-4"	—
a1(E)	0	4	4	#5	27'-0"	—
a2(E)	16	0	16	#6	29'-4"	—
a3(E)	0	16	16	#6	27'-0"	—
a4(E)	6	6	12	#6	4'-0"	—
d(E)	6	6	12	#5	4'-7"	┘
d1(E)	8	8	16	#5	3'-7"	┘
d2(E)	4	4	8	#4	2'-1"	┘
d3(E)	2	2	4	#5	6'-0"	┘
x(E)	52	50	102	#5	2'-8"	┘
Reinforcement Bars, Epoxy Coated					Pound	2,100
Concrete Removal					Cu. Yd.	15.9
Concrete Superstructure					Cu. Yd.	15.7
Bar Splicers					Each	20

(Sheet 1 of 5)



USER NAME = nhc
ESCA PROJECT NO. = 1445.01
PLOT SCALE = 0:2'"/in.
PLOT DATE = 1/20/2026

DESIGNED - ELH 07/25
CHECKED - RDP 07/25
DRAWN - NHC 07/25
CHECKED - ELH 07/25

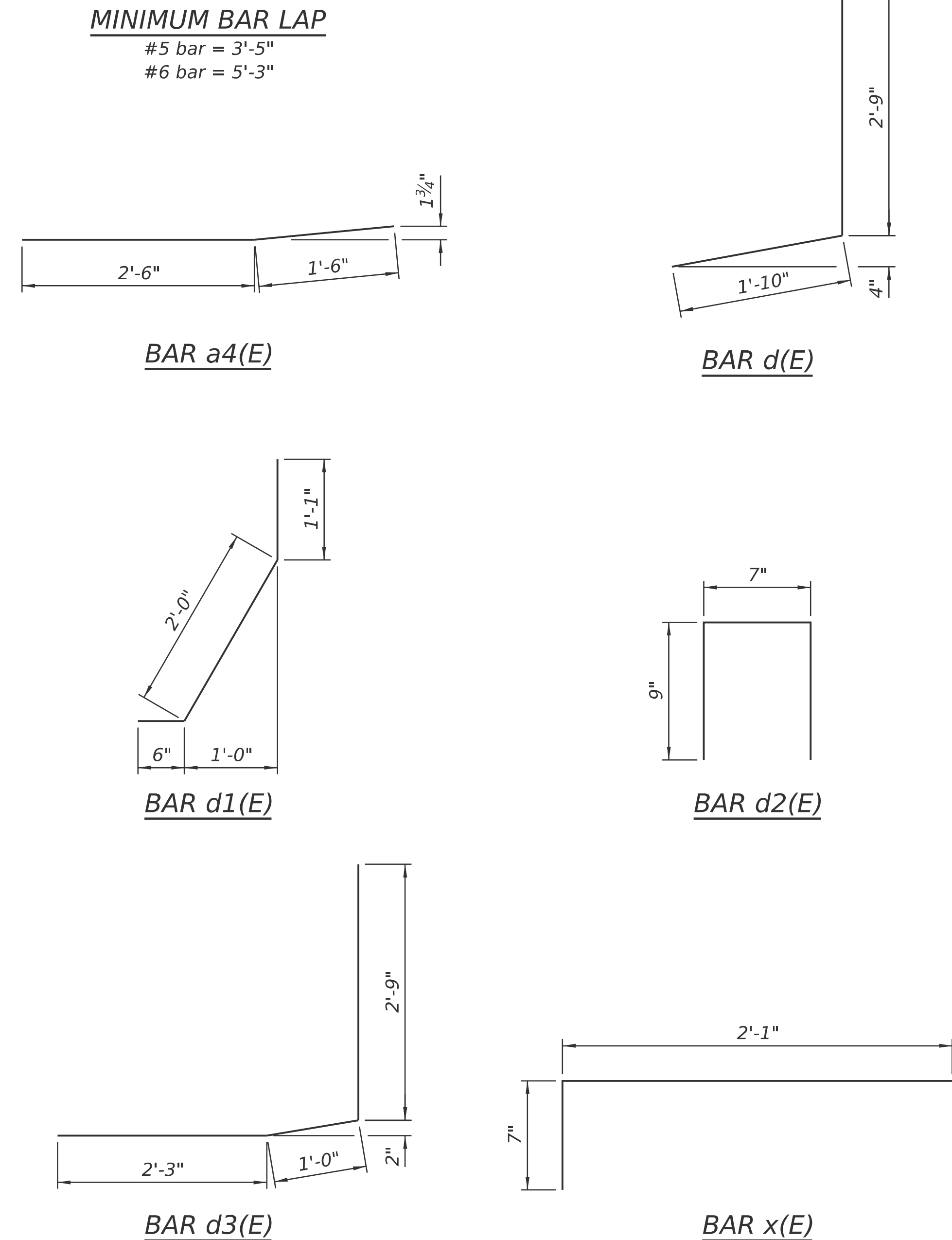
REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXPANSION JOINT REPLACEMENT DETAILS
SN 058-0068 (WB)

SHEET 8 OF 33 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	D7 BRIDGE REPAIRS 2026-3	MACON	108	47
CONTRACT NO. 74D08				
ILLINOIS FED. AID PROJECT				



SN 058-0069 BILL OF MATERIAL
(South Abutment)

Bar	Number		Total	Size	Length	Shape
	Stage I	Stage II				
a4(E)	3	3	6	#6	4'-0"	
a5(E)	0	4	4	#5	20'-4"	
a6(E)	4	0	4	#5	19'-6"	
a7(E)	0	16	16	#6	21'-3"	
a8(E)	16	0	16	#6	20'-5"	
d(E)	3	3	6	#5	4'-7"	
d1(E)	4	4	8	#5	3'-7"	
d2(E)	2	2	4	#4	2'-1"	
d3(E)	1	1	2	#5	6'-0"	
x(E)	30	34	64	#5	2'-8"	
Reinforcement Bars, Epoxy Coated					Pound	1,460
Concrete Removal					Cu. Yd.	9.5
Concrete Superstructure					Cu. Yd.	9.6
Bar Splicers					Each	10

Notes:
For Section A-A and Section B-B see Sheet 11 of 33.
Trim ends of existing longitudinal reinforcement in decks and parapets to provide minimum clearance for the expansion joint. Cost is included in Concrete Removal.
Bars indicated thus 4x2-#6 etc. indicates 4 lines of bars with 2 lengths per line.

(Sheet 2 of 5)

EXPANSION JOINT REPLACEMENT DETAILS
SN 058-0069 (EB)

F.A.I. RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
72	D7 BRIDGE REPAIRS 2026-3		MACON	108	48
			CONTRACT NO. 74D08		
		ILLINOIS	FED. AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LEGEND



SN 058-0069 SOUTH ABUTMENT
EXISTING PARTIAL PLAN

SN 058-0069 SOUTH ABUTMENT
PROPOSED PARTIAL PLAN

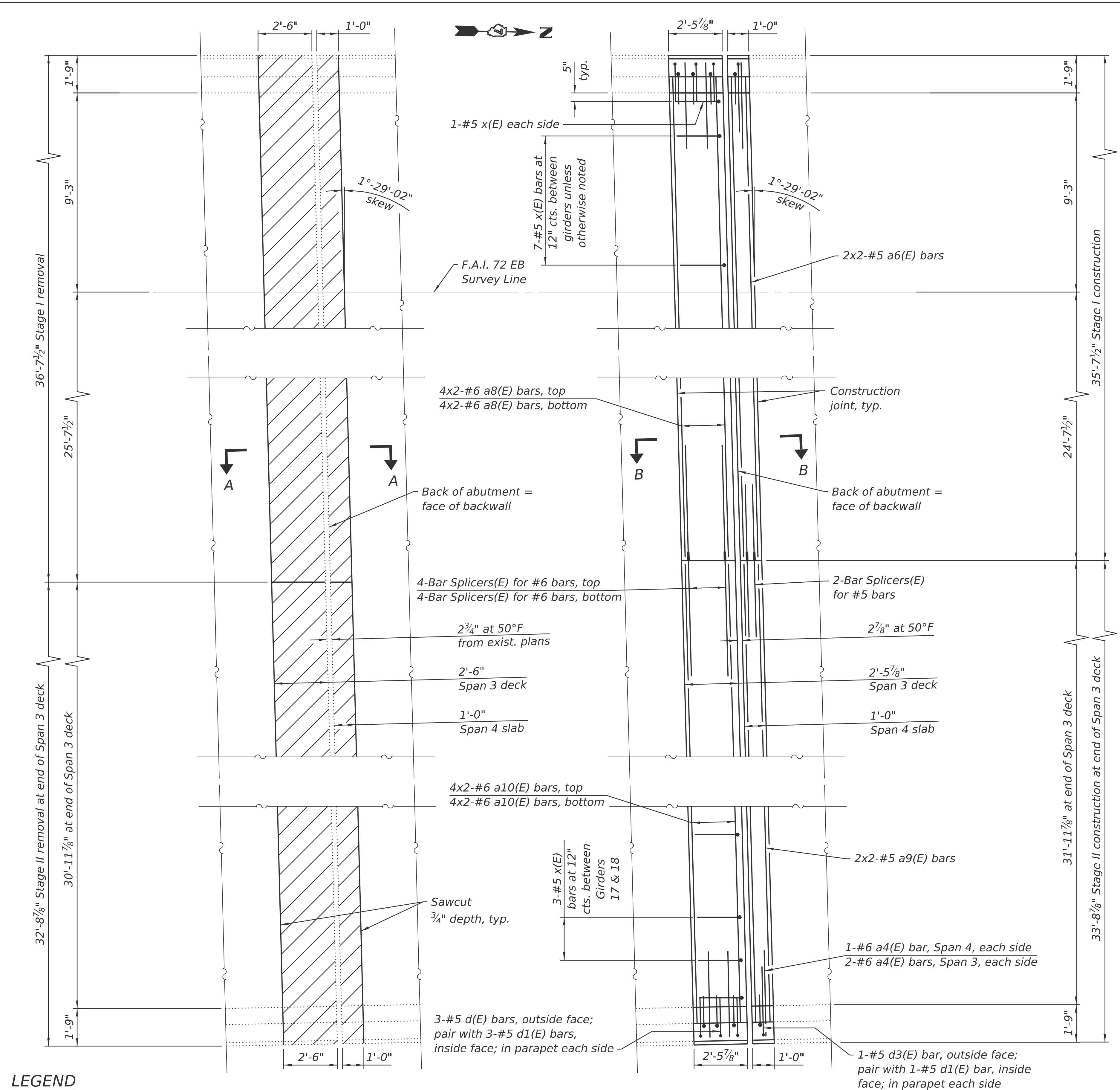
MODEL: Sheet
FILE NAME: Y:\DOT\1445-01 74D08\74D08 DESIGN\CADD\SP SN 058-0068-0069\Common sheets\0580068-0774D08-09-Expansion.IDDs.dgn

MODEL: Sheet
FILE NAME: Y:\A

ESCA
CONSULTANTS,
CIVIL & STRUCTURAL ENGINEERS

1/20/2026 10:00:37 AM

MODEL: Sheet
FILE NAME: Y:\DOT\1445-01_74D08\74D08 DESIGN\CADD\SP SN 058-0068-0069\Common sheets\0580068-D774D08-10-Expansion\JD1s.dgn



LEGEND

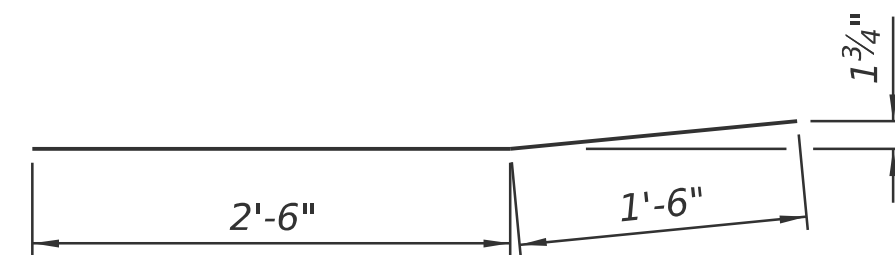
 Concrete Removal

SN 058-0069 NORTH ABUTMENT
EXISTING PARTIAL PLAN

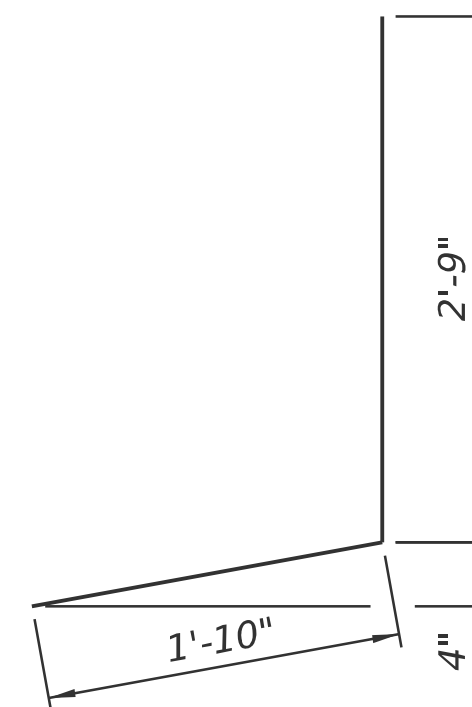
SN 058-0069 NORTH ABUTMENT
PROPOSED PARTIAL PLAN

MINIMUM BAR LAP

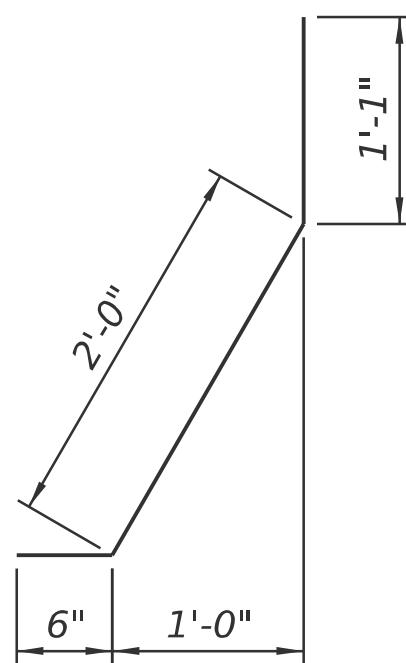
#5 bar = 3'-5"
#6 bar = 5'-3"



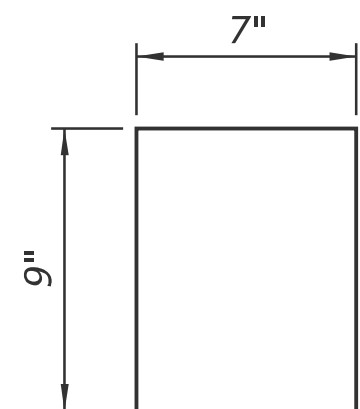
BAR a4(E)



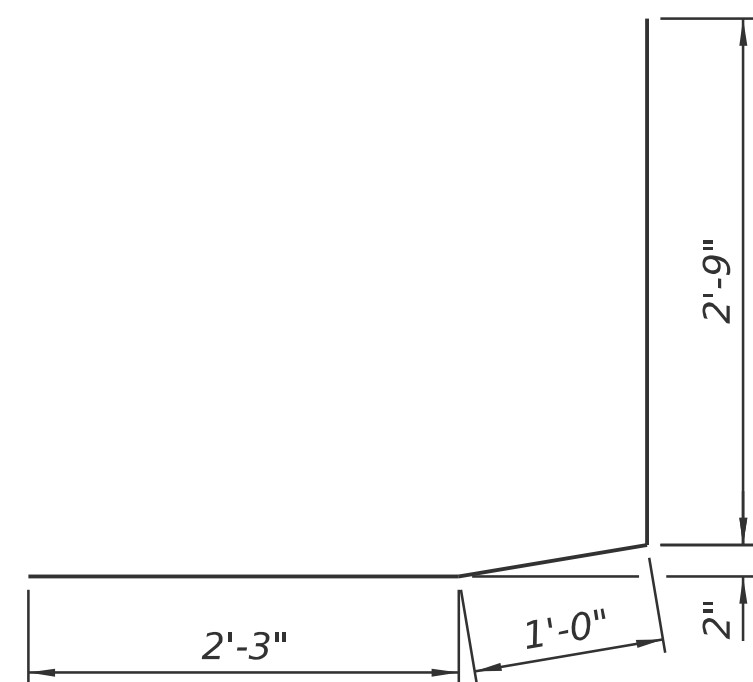
BAR d(E)



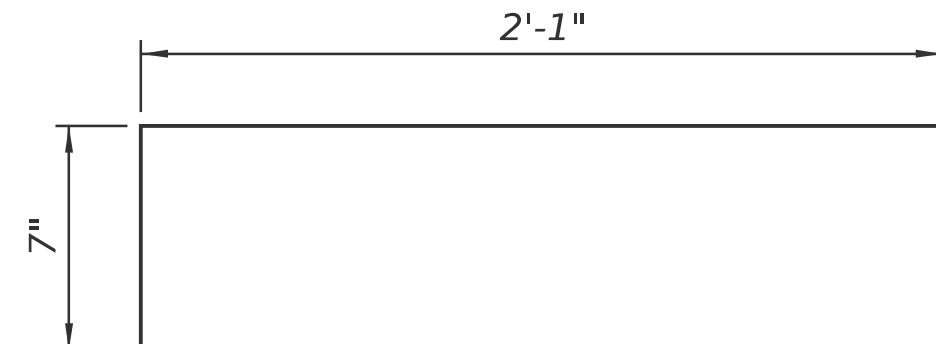
BAR d1(E)



BAR d2(E)



BAR d3(E)



BAR x(E)

SN 058-0069 BILL OF MATERIAL
(North Abutment)

Bar	Number		Total	Size	Length	Shape
	Stage I	Stage II				
a4(E)	3	3	6	#6	4'-0"	—
a6(E)	4	0	4	#5	19'-6"	—
a8(E)	16	0	16	#6	20'-5"	—
a9(E)	0	4	4	#5	18'-7"	—
a10(E)	0	16	16	#6	19'-6"	—
d(E)	3	3	6	#5	4'-7"	┘
d1(E)	4	4	8	#5	3'-7"	┘
d2(E)	2	2	4	#4	2'-1"	┘
d3(E)	1	1	2	#5	6'-0"	┘
x(E)	30	31	61	#5	2'-8"	┘
Reinforcement Bars, Epoxy Coated					Pound	1,410
Concrete Removal					Cu. Yd.	9.0
Concrete Superstructure					Cu. Yd.	9.2
Bar Splicers					Each	10

Notes:
For Section A-A and Section B-B see Sheet 11 of 33.
Trim ends of existing longitudinal reinforcement in decks and parapets to provide minimum clearance for the expansion joint. Cost is included in Concrete Removal.
Bars indicated thus 4x2-#6 etc. indicates 4 lines of bars with 2 lengths per line.

(Sheet 3 of 5)

EXPANSION JOINT REPLACEMENT DETAILS
SN 058-0069 (EB)

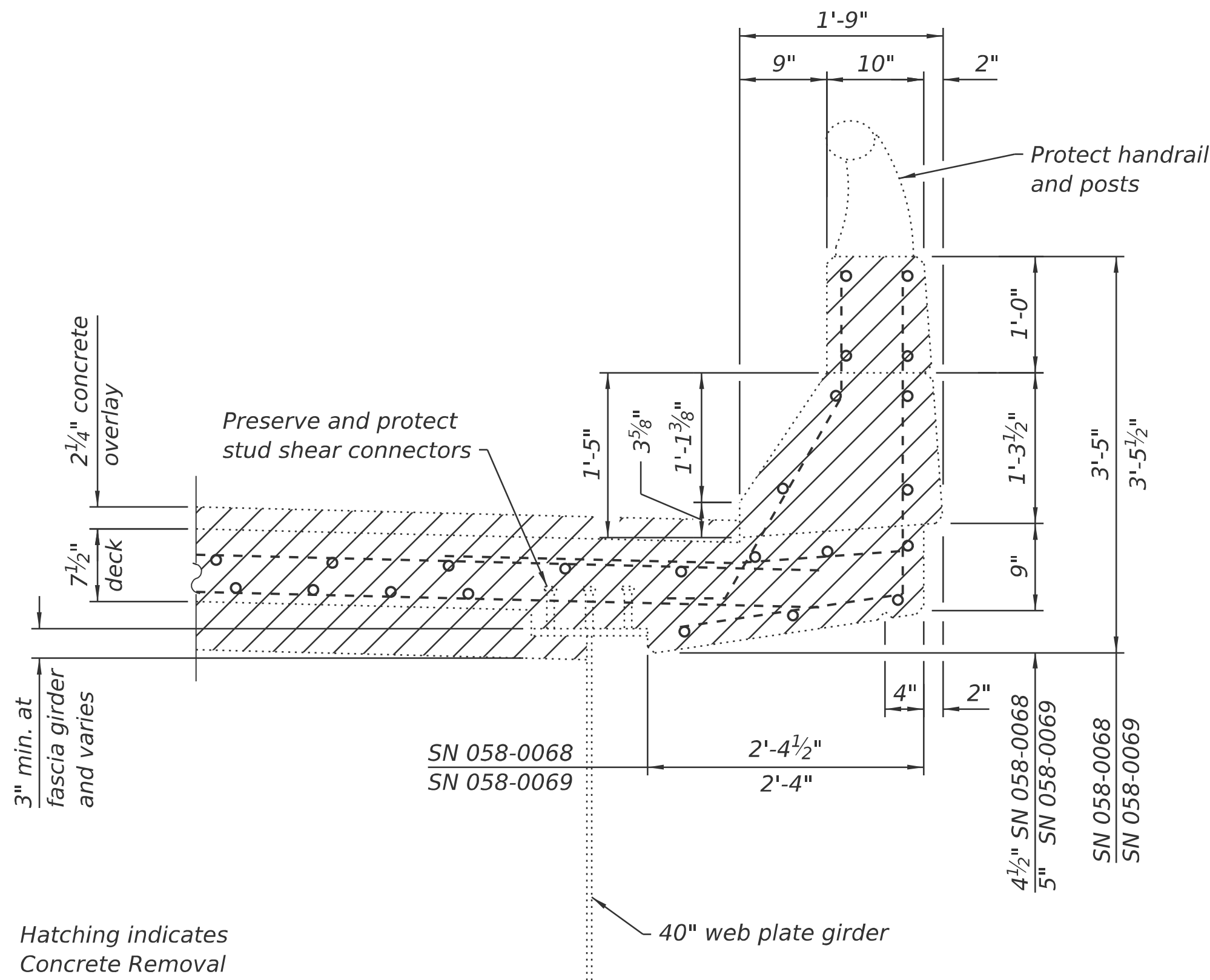
SHEET 10 OF 33 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	D7 BRIDGE REPAIRS 2026-3	MACON	108	49
CONTRACT NO. 74D08				
ILLINOIS FED. AID PROJECT				

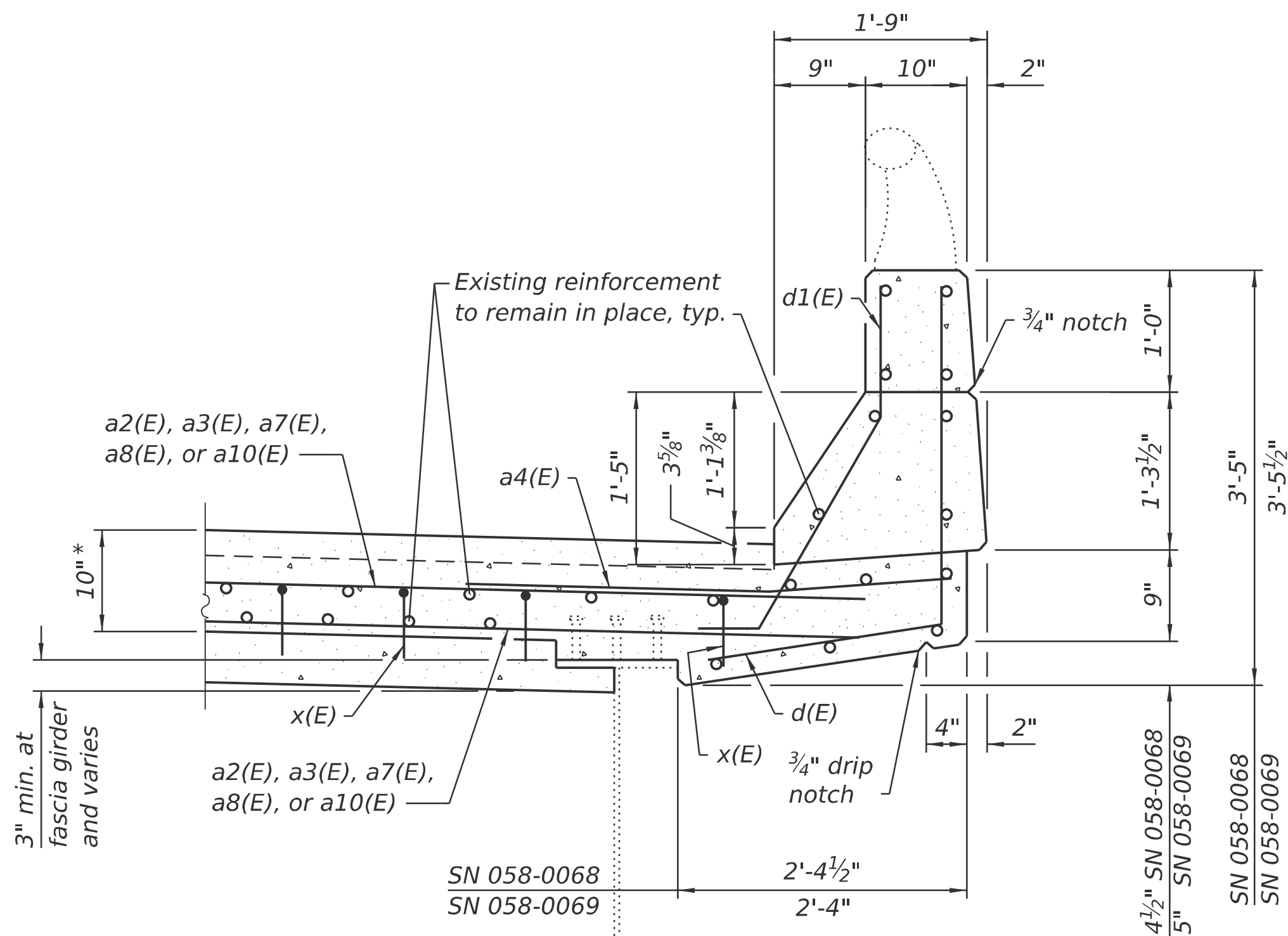


USER NAME = nhc	DESIGNED - ELH 07/25	REVISED -
ESCA PROJECT NO. = 1445.01	CHECKED - RDP 07/25	REVISED -
PLOT SCALE = 0.2'"/in.	DRAWN - NHC 07/25	REVISED -
PLOT DATE = 1/20/2026	CHECKED - ELH 07/25	REVISED -

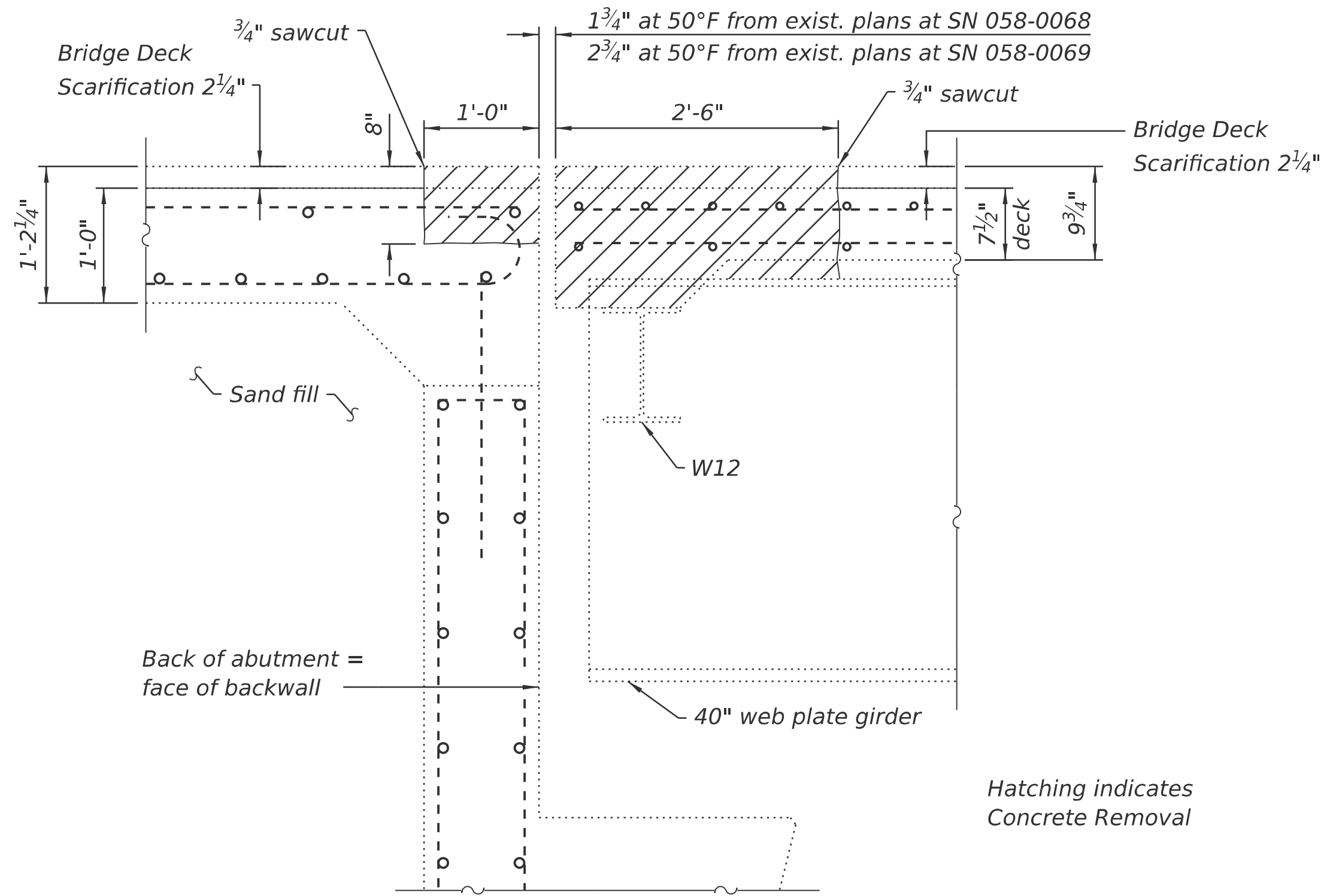
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



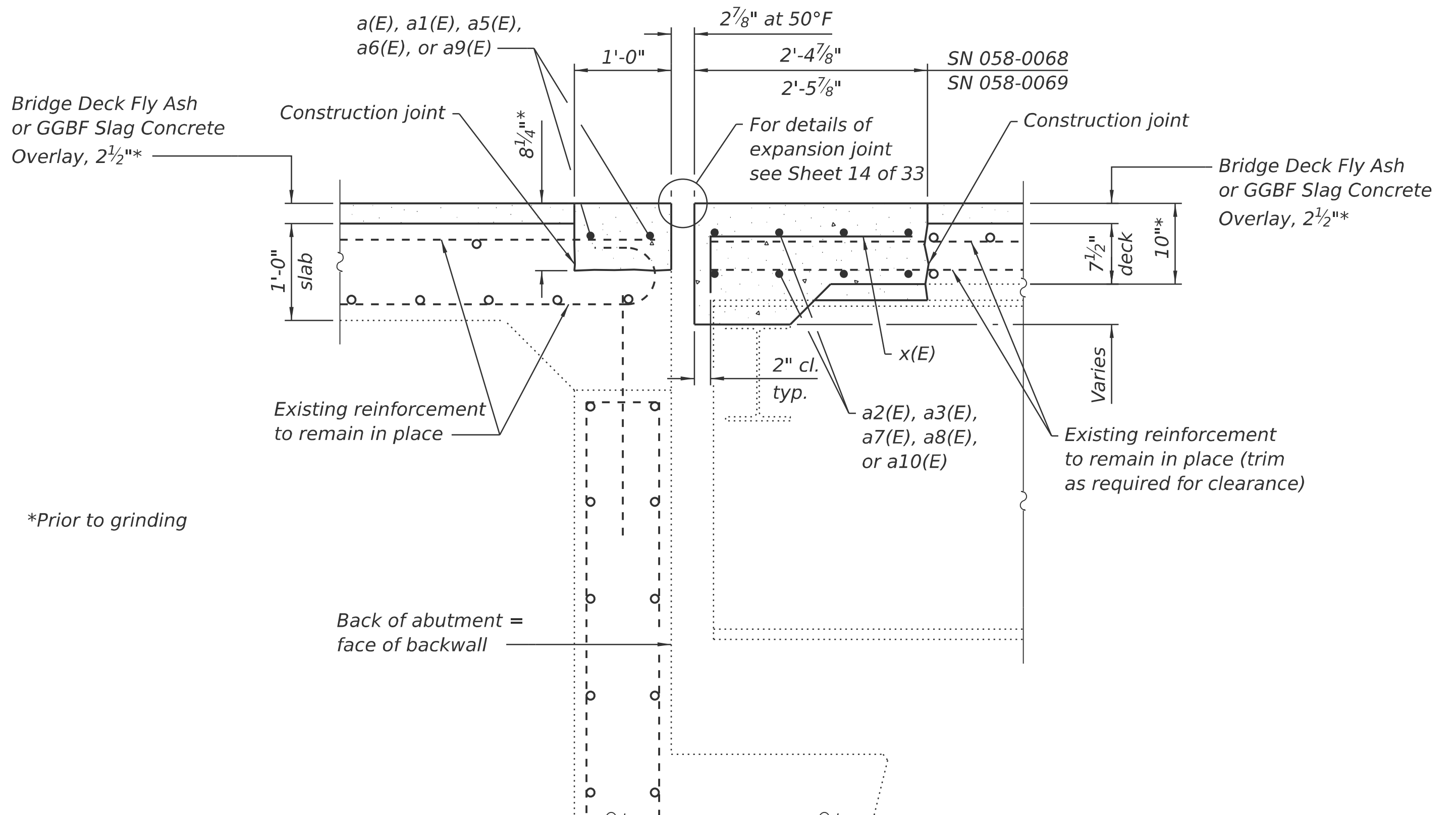
SECTION THRU EXISTING PARAPET AT MAIN SPANS
(Horizontal dimensions at right angles)



SECTION THRU PROPOSED PARAPET AT MAIN SPANS
(Horizontal dimensions at right angles)



SECTION A-A
(Horizontal dimensions at right angles)



SECTION B-B
(Horizontal dimensions at right angles)

(Sheet 4 of 5)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXPANSION JOINT REPLACEMENT DETAILS
SN 058-0068 (WB) & SN 058-0069 (EB)

SHEET 11 OF 33 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	D7 BRIDGE REPAIRS 2026-3	MACON	108	50
CONTRACT NO. 74D08				
ILLINOIS FED. AID PROJECT				

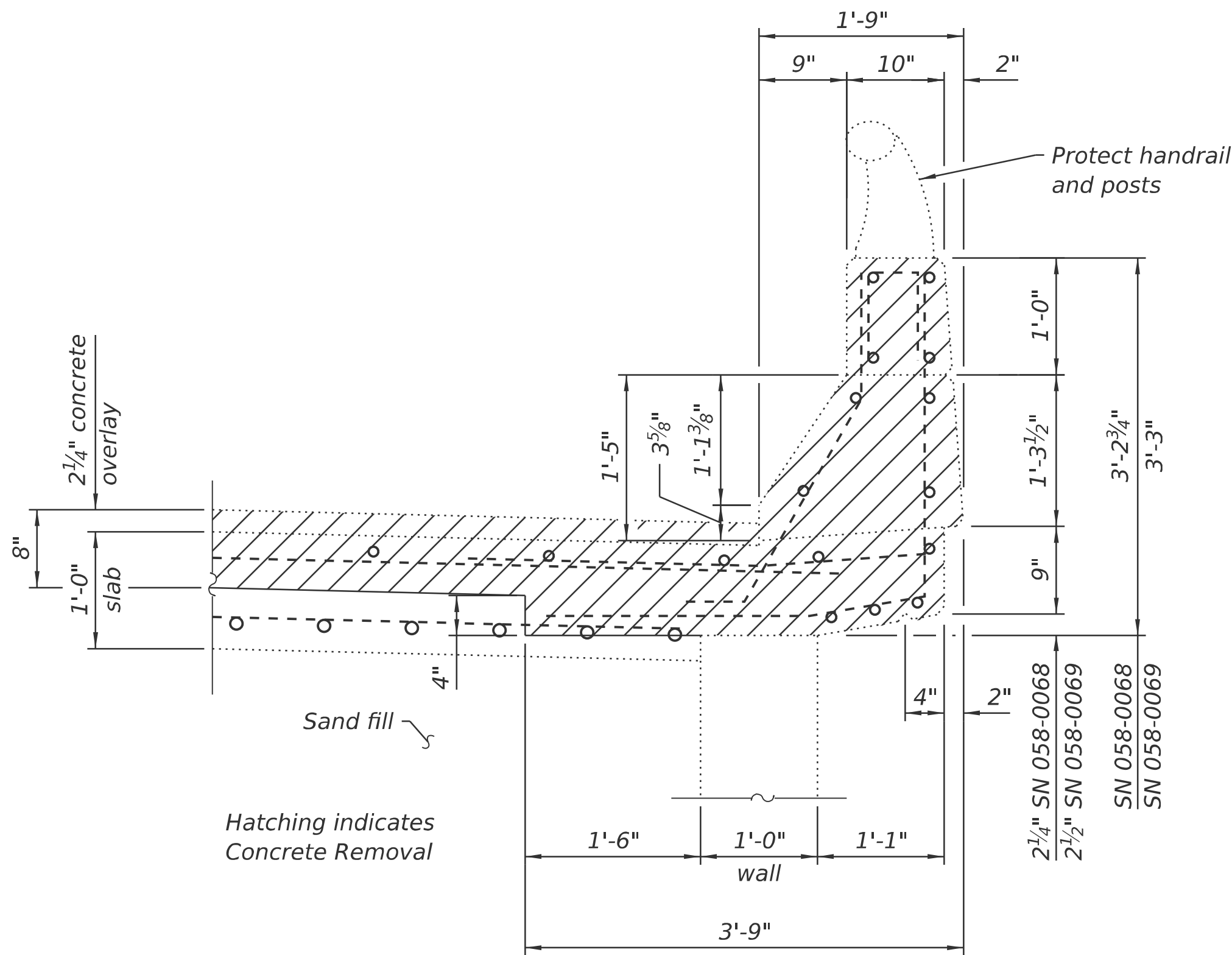


USER NAME = nhc
ESCA PROJECT NO. = 1445.01
PLOT SCALE = 0.2" = 1' / in.
PLOT DATE = 1/20/2026

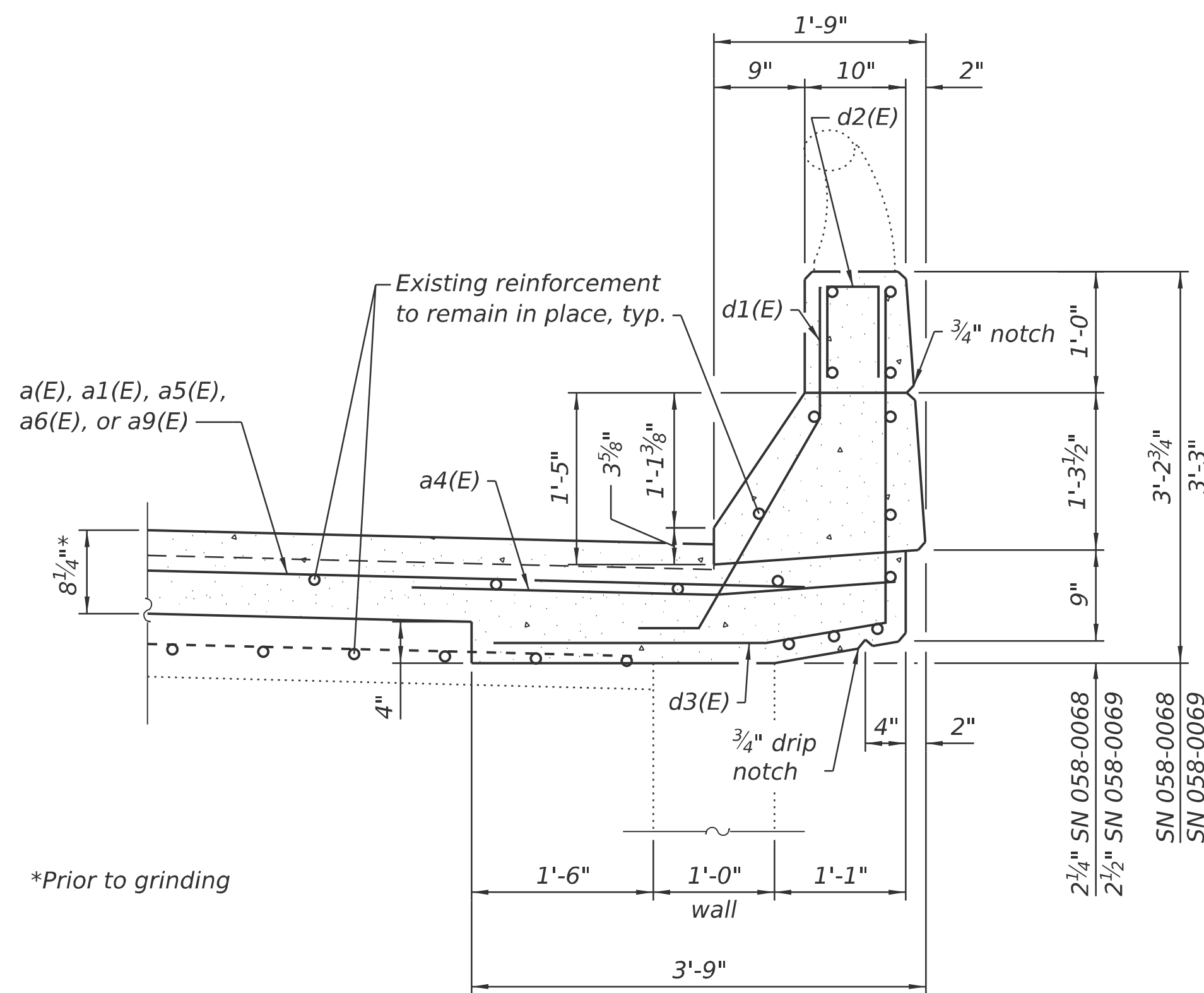
DESIGNED - ELH 07/25
CHECKED - RDP 07/25
DRAWN - NHC 07/25
CHECKED - ELH 07/25

REVISED -
REVISED -
REVISED -
REVISED -

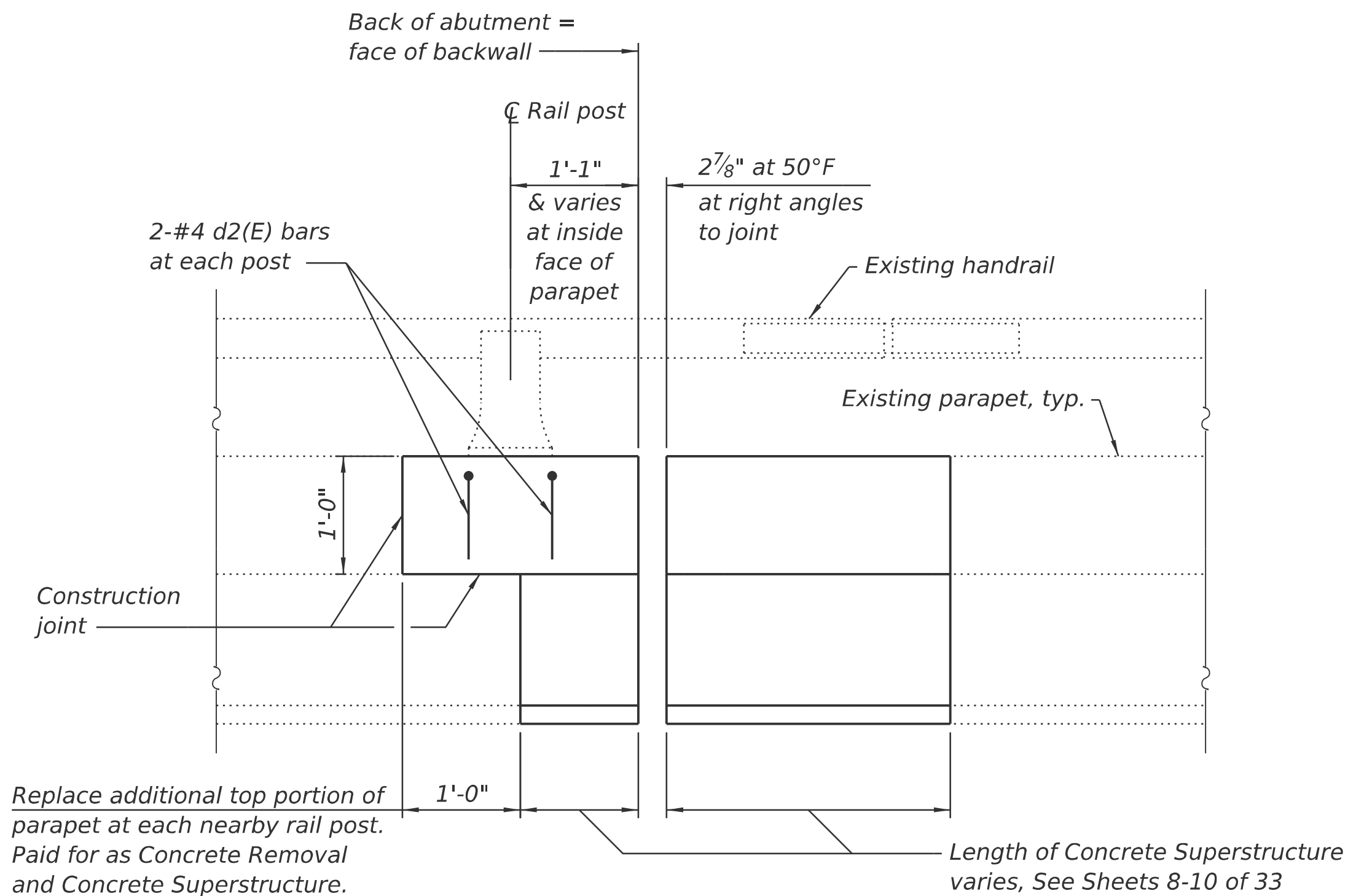
MODEL: Sheet
FILE NAME: Y:\DOT11445-01_74D08\74D08 DESIGN\CADD\SP SN 058-0068-0069\Common sheets\0580068-D774D08-12Expansion\JD1s.dgn



SECTION THRU EXISTING PARAPET AT END SPANS
(Horizontal dimensions at right angles)



SECTION THRU PROPOSED PARAPET AT END SPANS
(Horizontal dimensions at right angles)



INSIDE ELEVATION AT EXPANSION JOINT RAIL POST
(Four locations at SN 058-0068; four locations at SN 058-0069)

(Sheet 5 of 5)



USER NAME = nhc	DESIGNED - ELH 07/25	REVISED -
ESCA PROJECT NO. = 1445.01	CHECKED - RDP 07/25	REVISED -
PLOT SCALE = 0.2 '"/in.	DRAWN - NHC 07/25	REVISED -
PLOT DATE = 1/20/2026	CHECKED - ELH 07/25	REVISED -

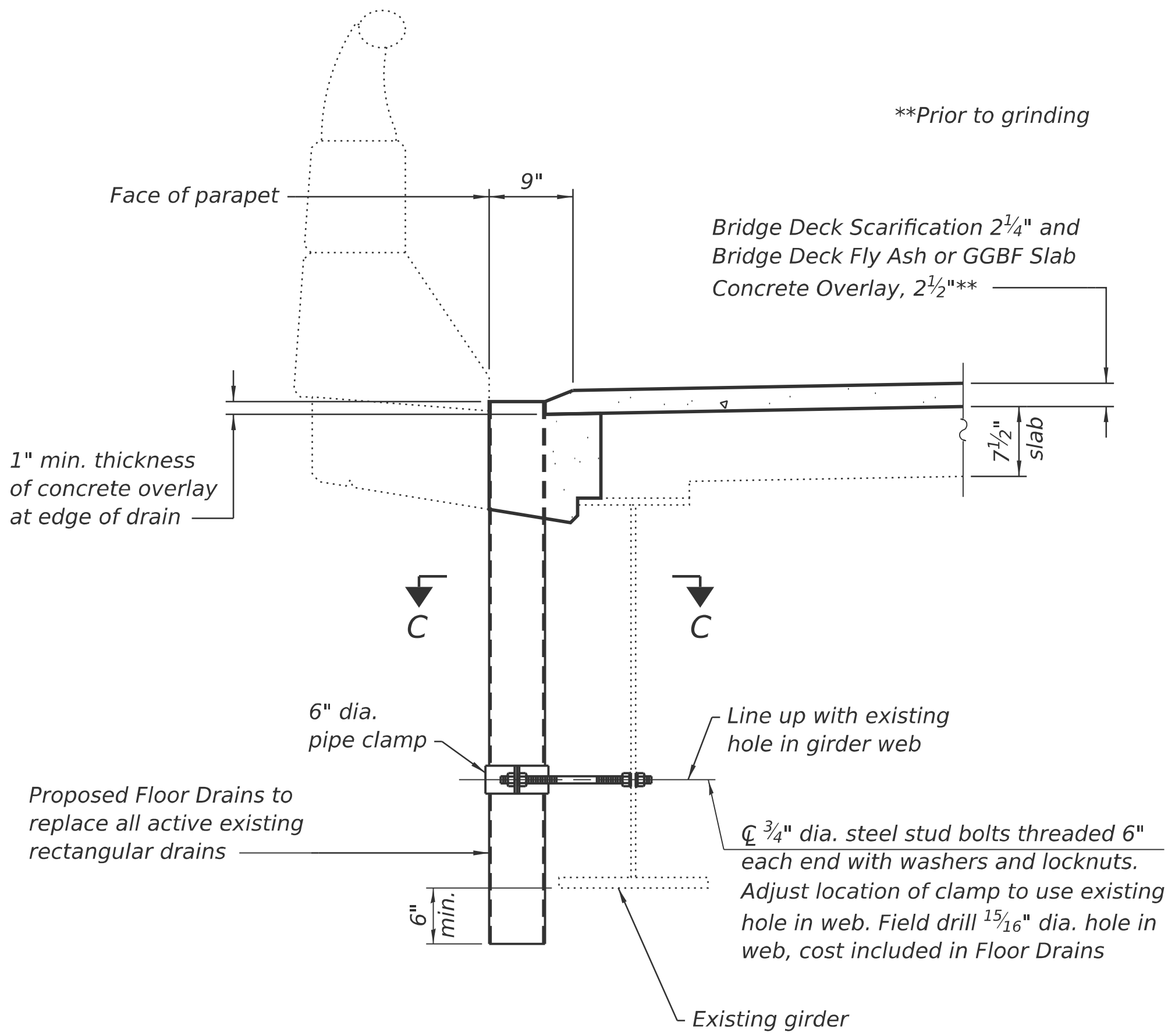
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXPANSION JOINT REPLACEMENT DETAILS
SN 058-0068 (WB) & SN 058-0069 (EB)

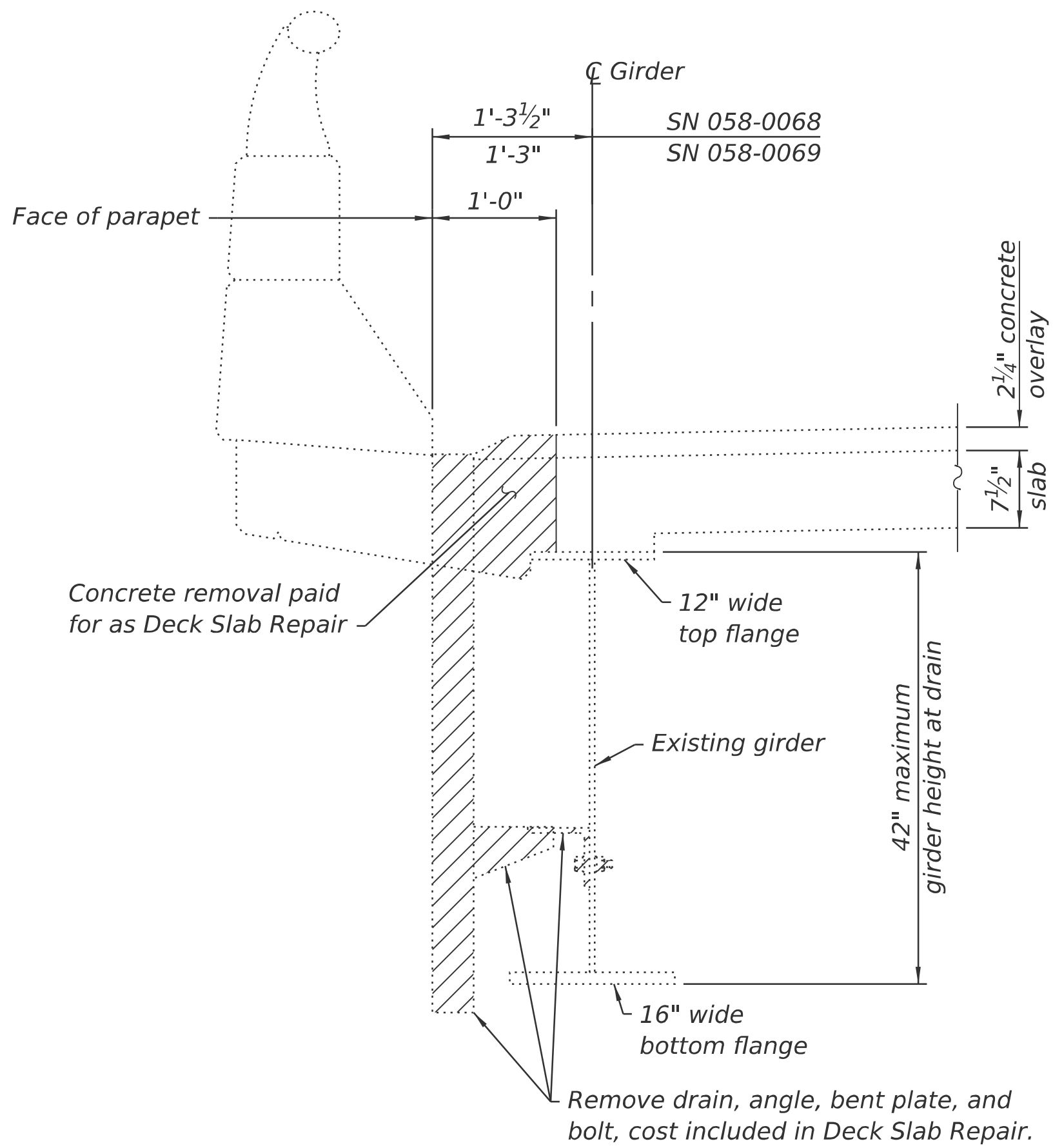
SHEET 12 OF 33 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	D7 BRIDGE REPAIRS 2026-3	MACON	108	51
CONTRACT NO. 74D08				
ILLINOIS FED. AID PROJECT				

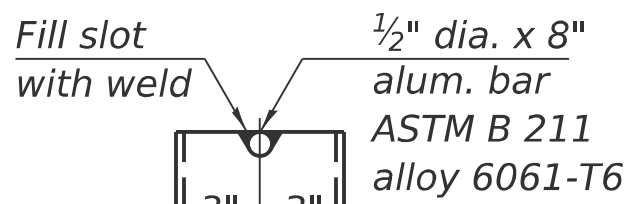
Notes:
Fiberglass pipe shall conform to ASTM D2996, with short-time rupture strength hoop tensile stress of 30,000 p.s.i. minimum.
The exterior surfaces of the floor drains shall be painted according to Article 506 with the finish coat as specified. The exterior surfaces of the drains shall be cleaned according to the Society of Protective Coating's Spec. SSPC-SP1 prior to painting.
The top portion of aluminum floor drains shall be coated with 5 mils of either bitumen paint or epoxy paint to minimize reaction with wet concrete.
The clamping device shall be galvanized according to AASHTO M 232. Cost of clamping device included with Floor Drains.



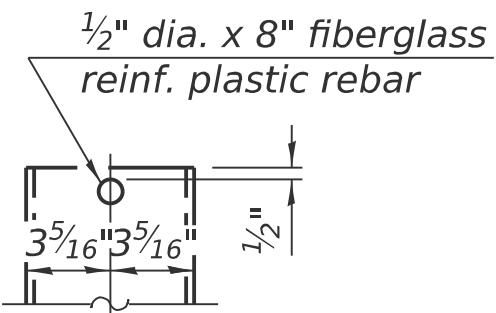
SECTION THRU PROPOSED FLOOR DRAIN



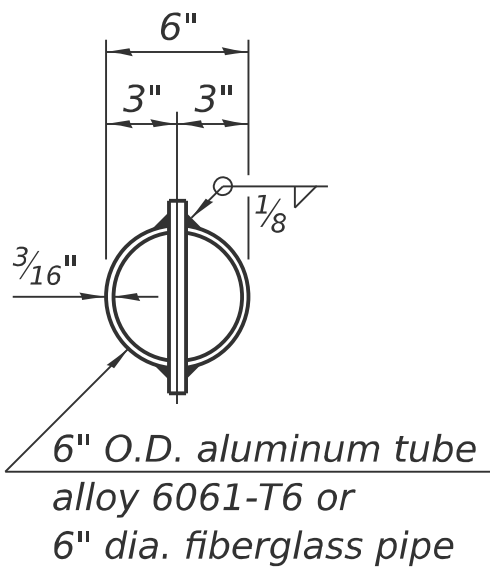
SECTION THRU EXISTING DECK DRAIN



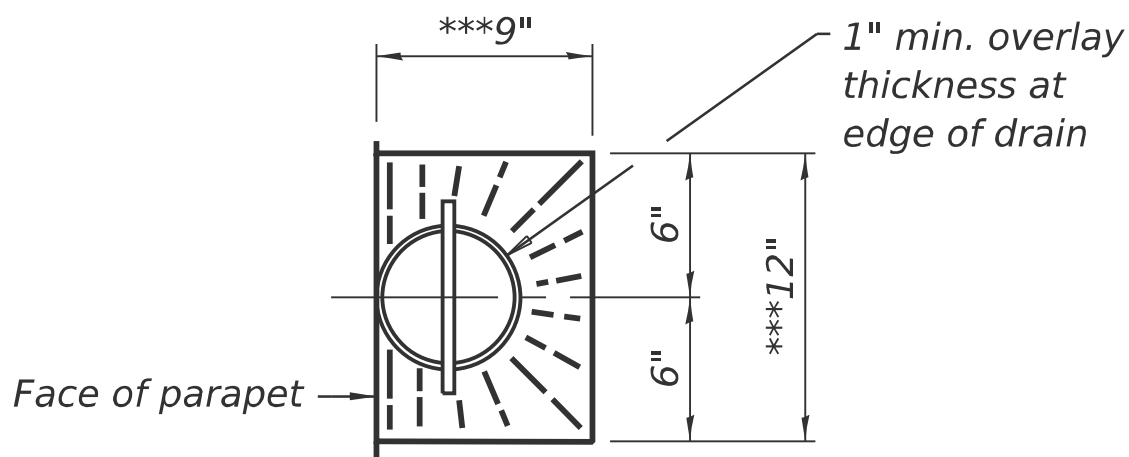
ALUMINUM TUBE



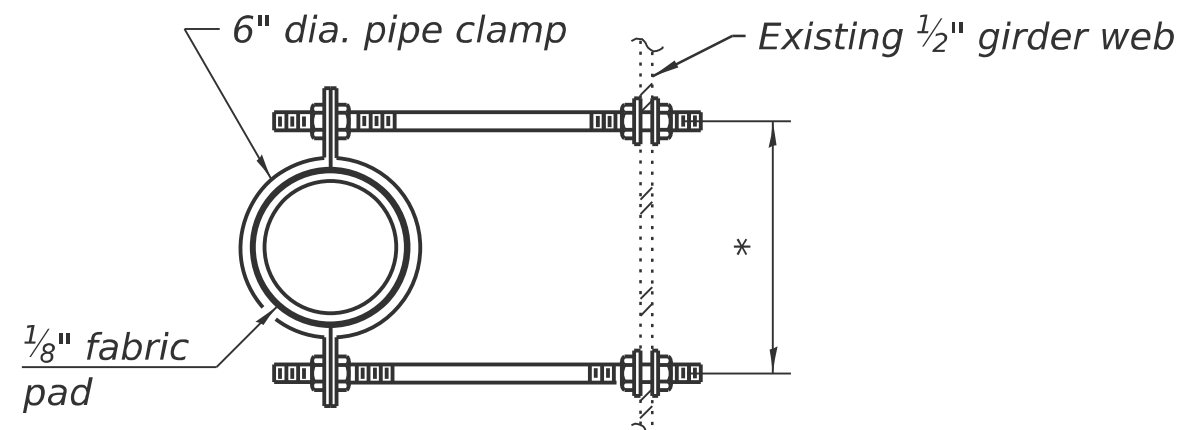
FIBERGLASS PIPE



TOP PLAN
(Showing aluminum tube)



TOP PLAN
***Slope to drain



SECTION C-C
*Dimension as required by pipe clamp

MODEL: Sheet
FILE NAME: Y:\DOT11445-01_74D08\74D08 DESIGN\CADD\SP SN 058-0068-0069\Common sheets\0580068-D774D08-13-DeckDrainDtls.dgn



USER NAME = nhc
ESCA PROJECT NO. = 1445.01
PLOT SCALE = 0.2" = 1' / in.
PLOT DATE = 1/20/2026

DESIGNED - ELH 07/25
CHECKED - RDP 07/25
DRAWN - NHC 07/25
CHECKED - ELH 07/25

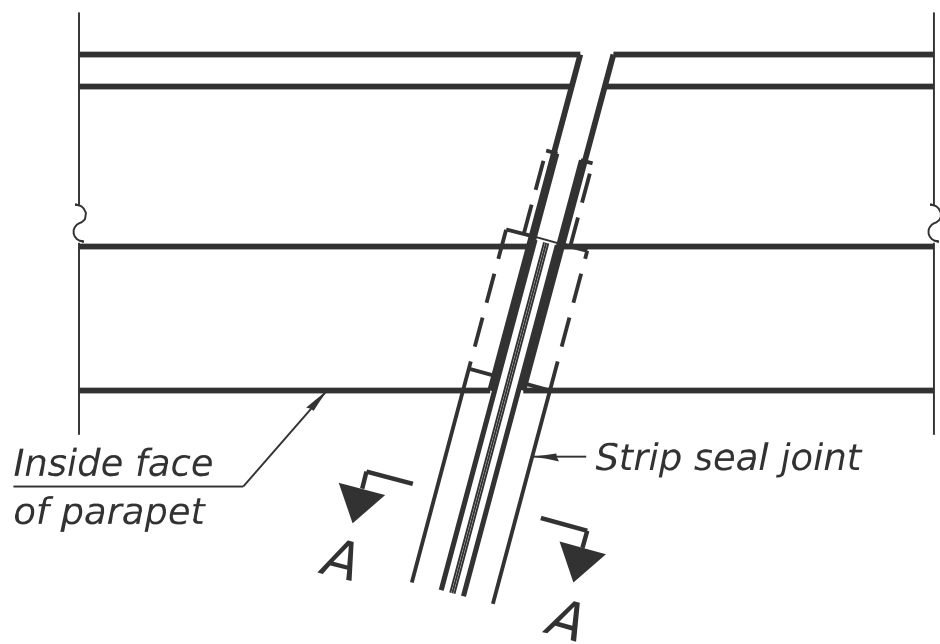
REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

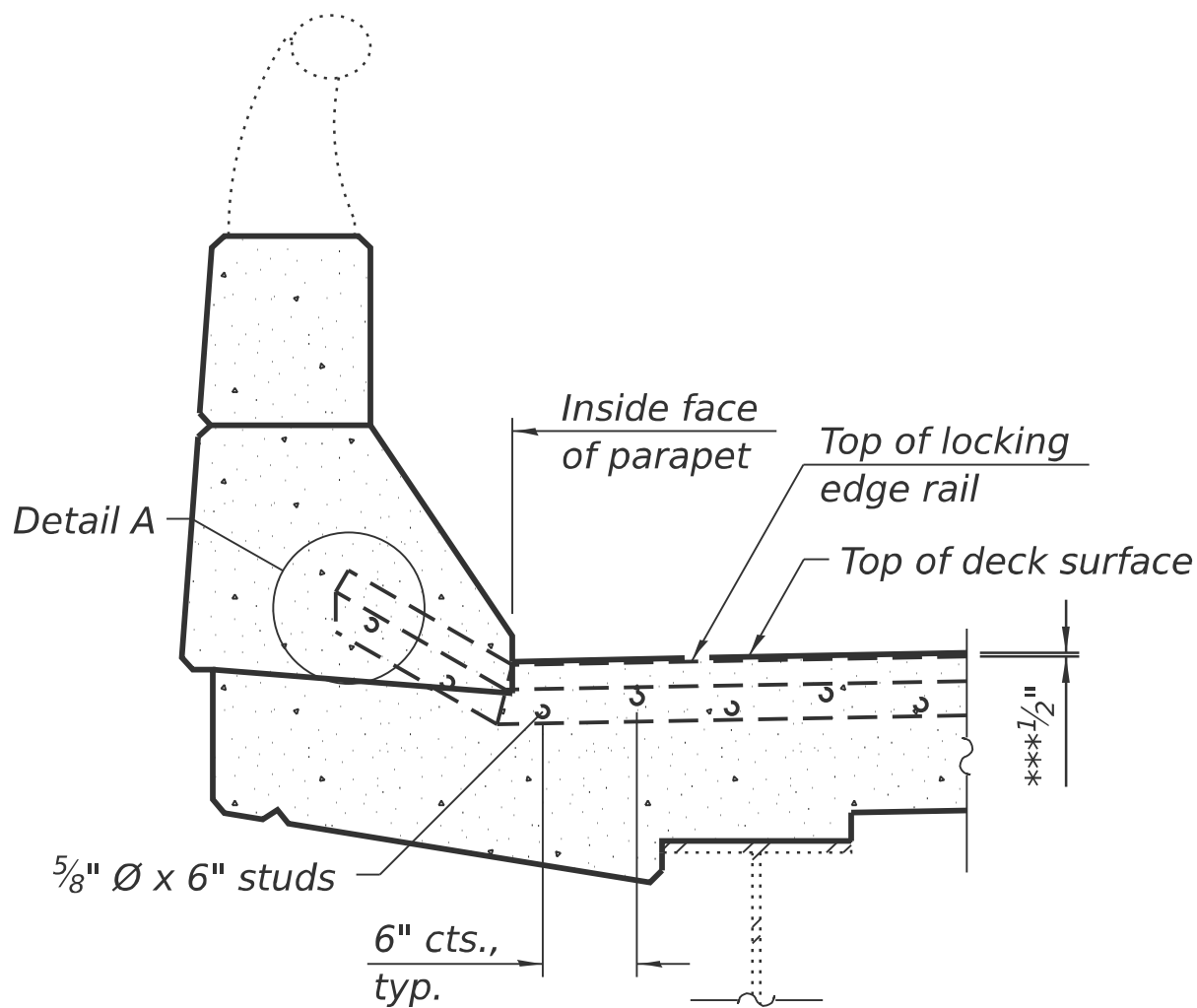
DECK DRAIN DETAILS
SN 058-0068 (WB) & SN 058-0069 (EB)

SHEET 13 OF 33 SHEETS

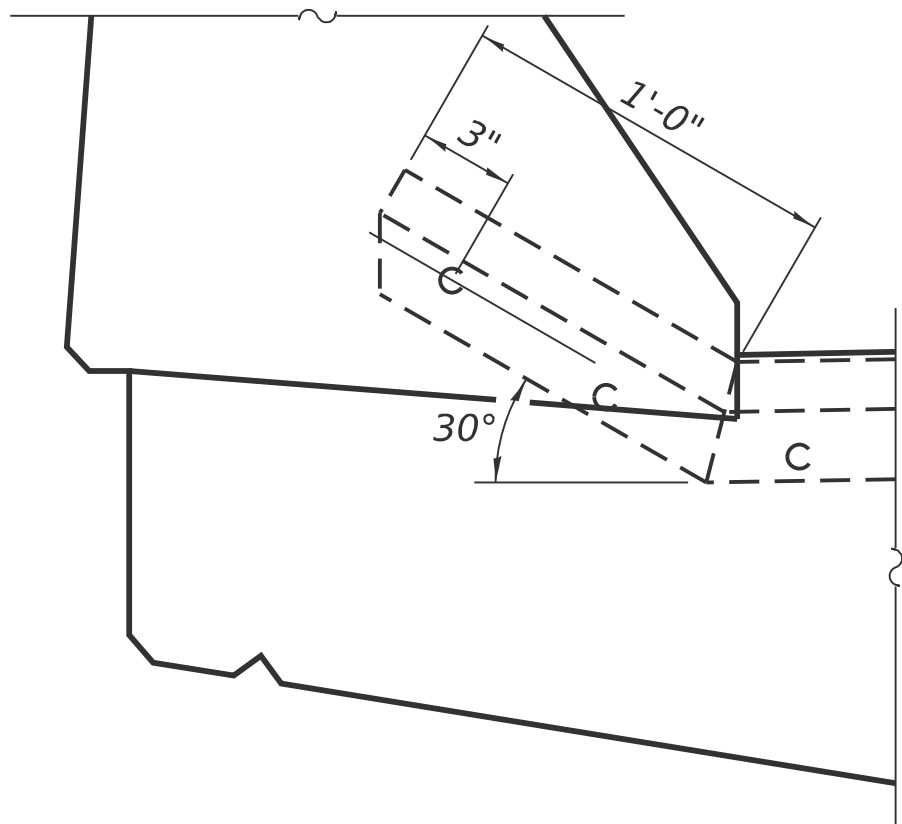
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	D7 BRIDGE REPAIRS 2026-3	MACON	108	52
CONTRACT NO. 74D08				
ILLINOIS FED. AID PROJECT				



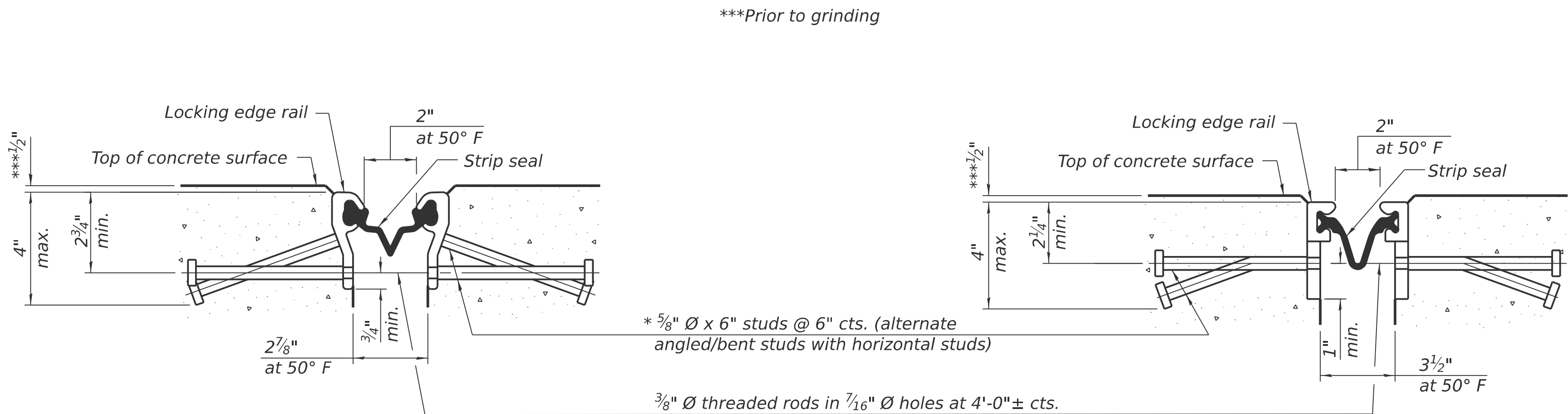
FOR SKEWS ≤ 30°
PLAN AT PARAPET



SECTION AT PARAPET



DETAIL A



SHOWING ROLLED RAIL JOINT

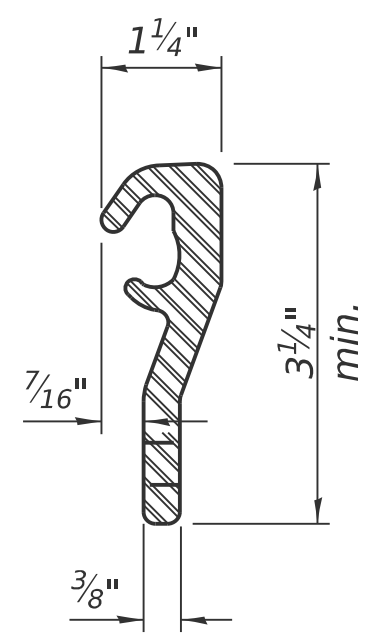
SHOWING WELDED RAIL JOINT

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

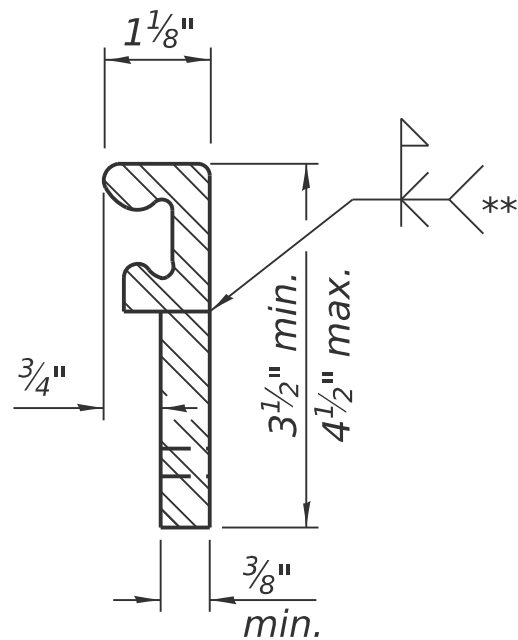
3/8" Ø threaded rods in 7/16" Ø holes at 4'-0" ± cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.

SECTION A-A

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



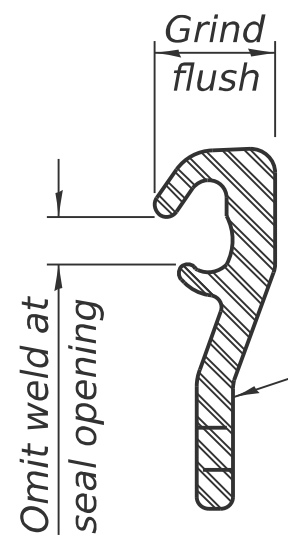
ROLLED (EXTRUDED) RAIL



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.

SN 058-0068 & SN 058-0069

BILL OF MATERIAL

Item	Unit	Quantity
Preformed Joint Strip Seal	Foot	254

Notes:

The strip seal shall be made continuous and shall have a minimum thickness of 1/4". The configuration of the strip seal shall match the configuration of the locking edge rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.

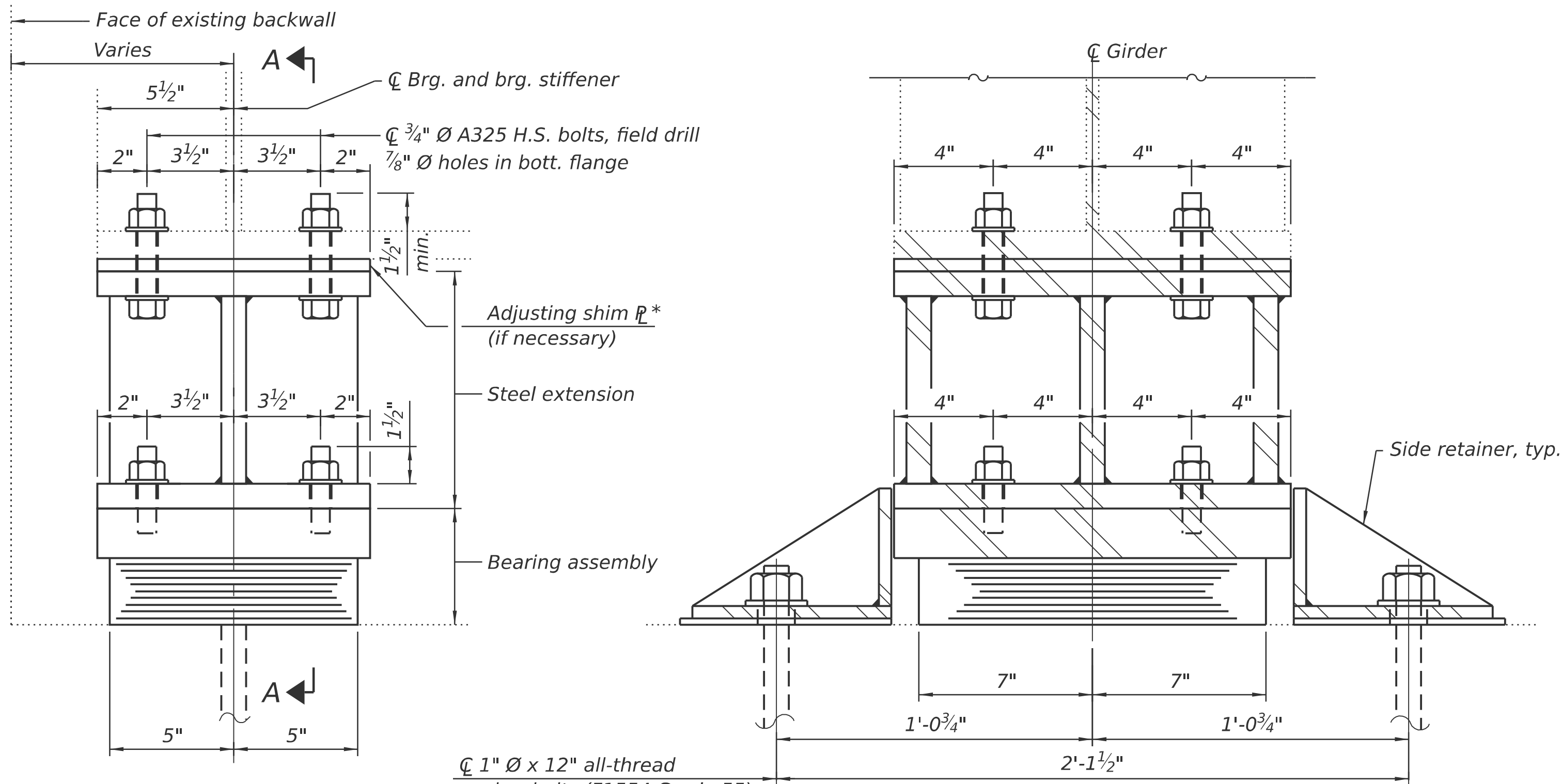
The locking edge rails depicted are configured for typical applications and are conceptual only. The actual configuration of the locking edge rails and matching strip seal may vary from manufacturer to manufacturer provided they fit the application and meet the minimum anchorage shown. Flanged edge rails, however, will not be allowed. Locking edge rails may exceed the 4 1/2" maximum depth provided the anchorage system is revised according to the manufacturer's recommendation.

The manufacturer's recommended installation methods shall be followed.

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

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

The 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.

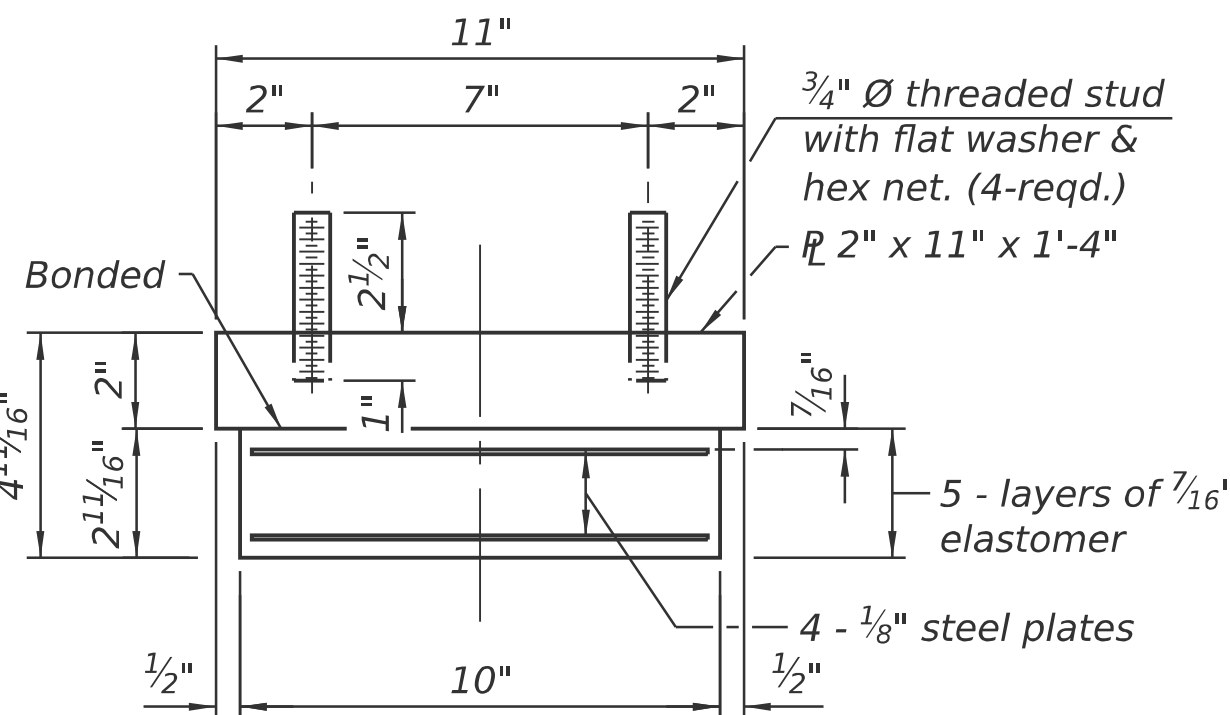


ELEVATION AT ABUT.

*See Shim Plate Tables

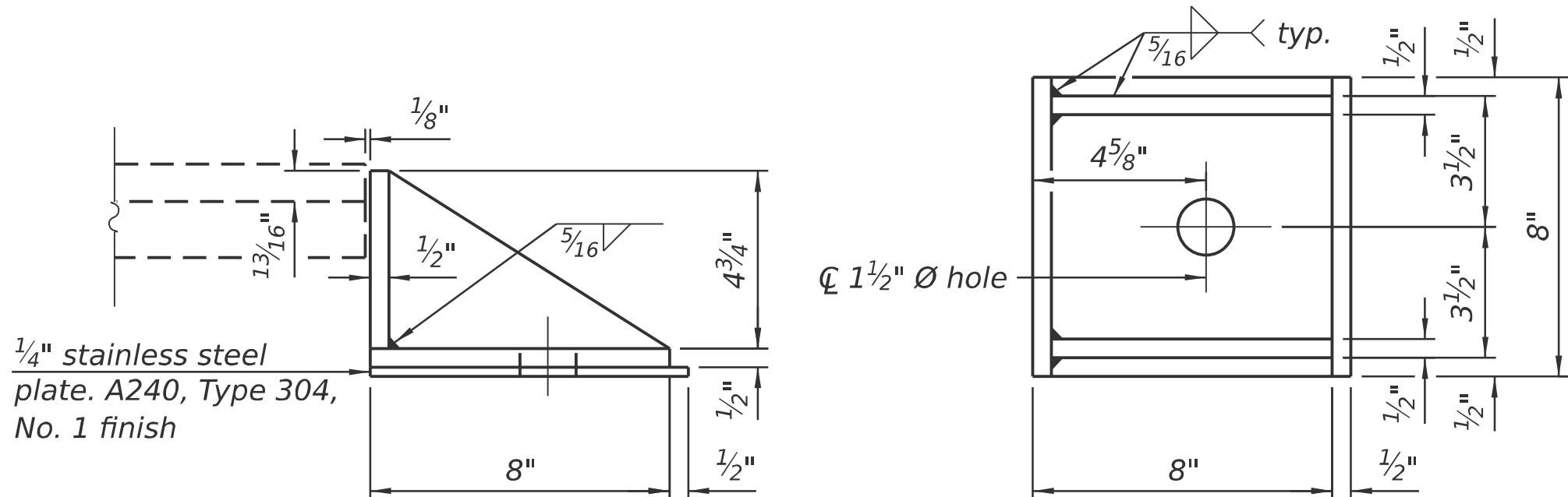
CL 1" Ø x 12" all-thread
anchor bolts (F1554 Grade 55)
with 2 1/4" x 2 1/4" x 5/16"
P washer under nut

TYPE I ELASTOMERIC EXP. BRG.



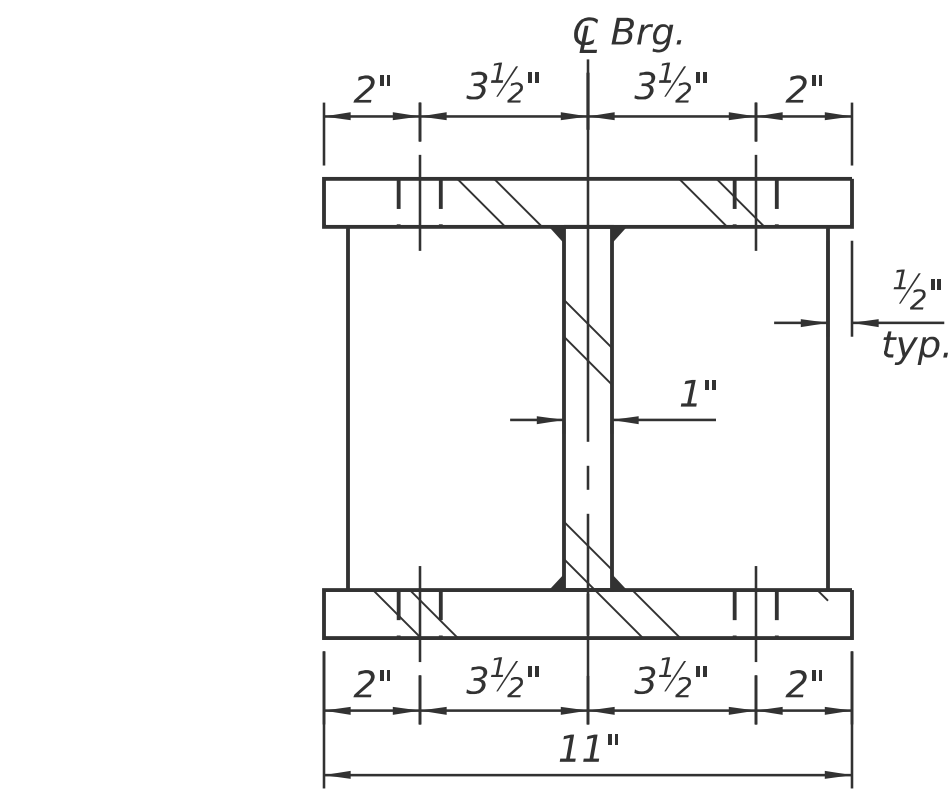
BEARING ASSEMBLY

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

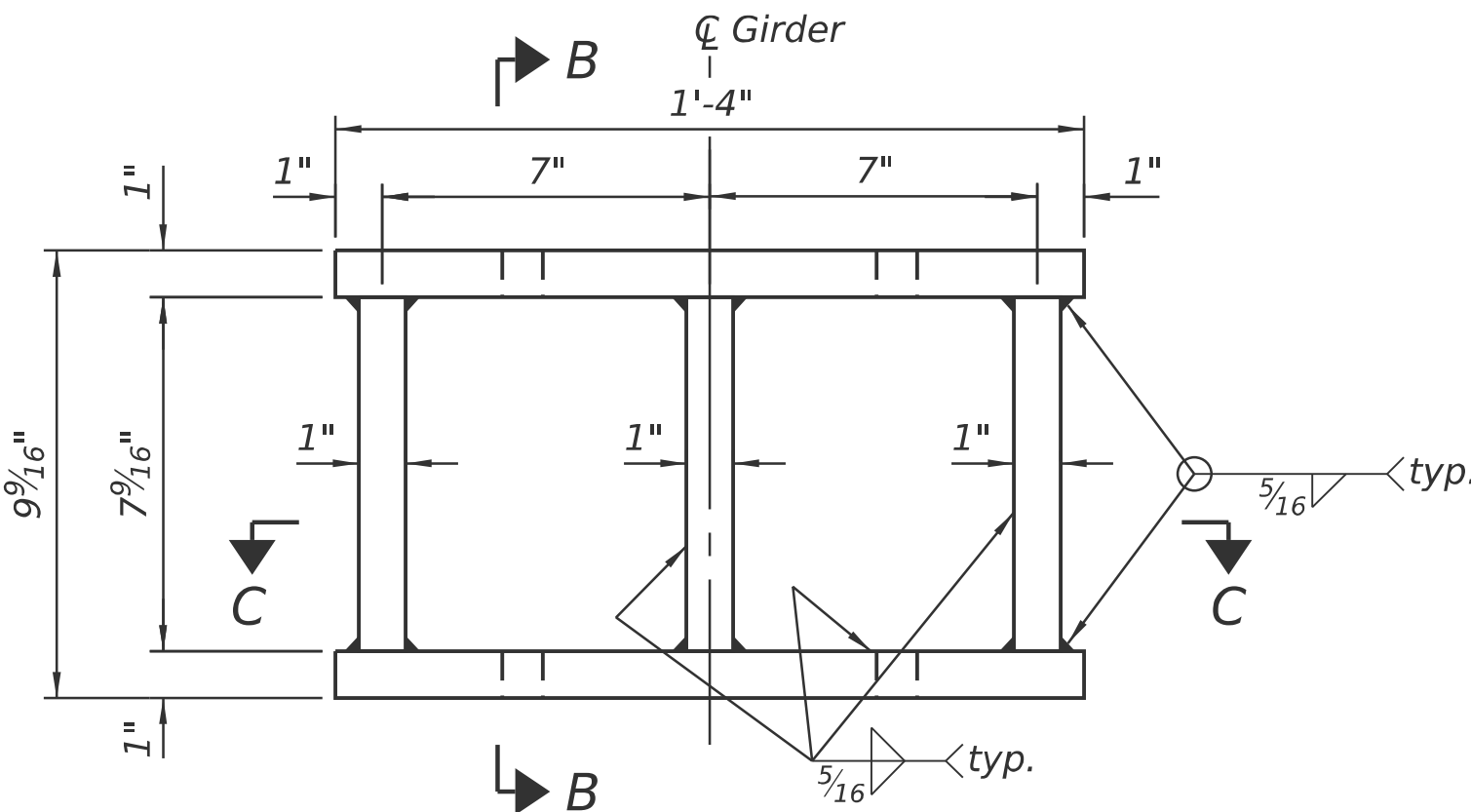


SIDE RETAINER

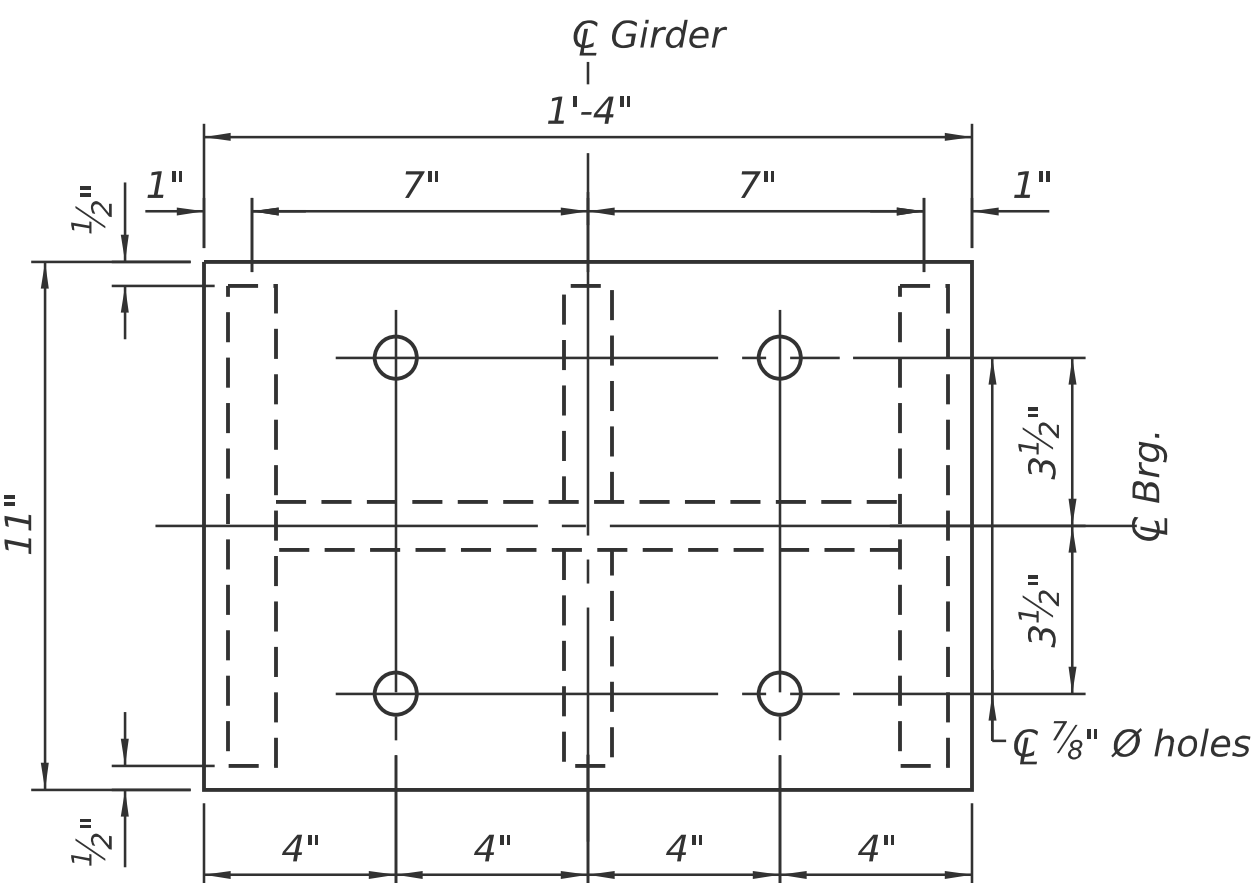
Equivalent rolled angle with stiffeners
will be allowed in lieu of welded plates.



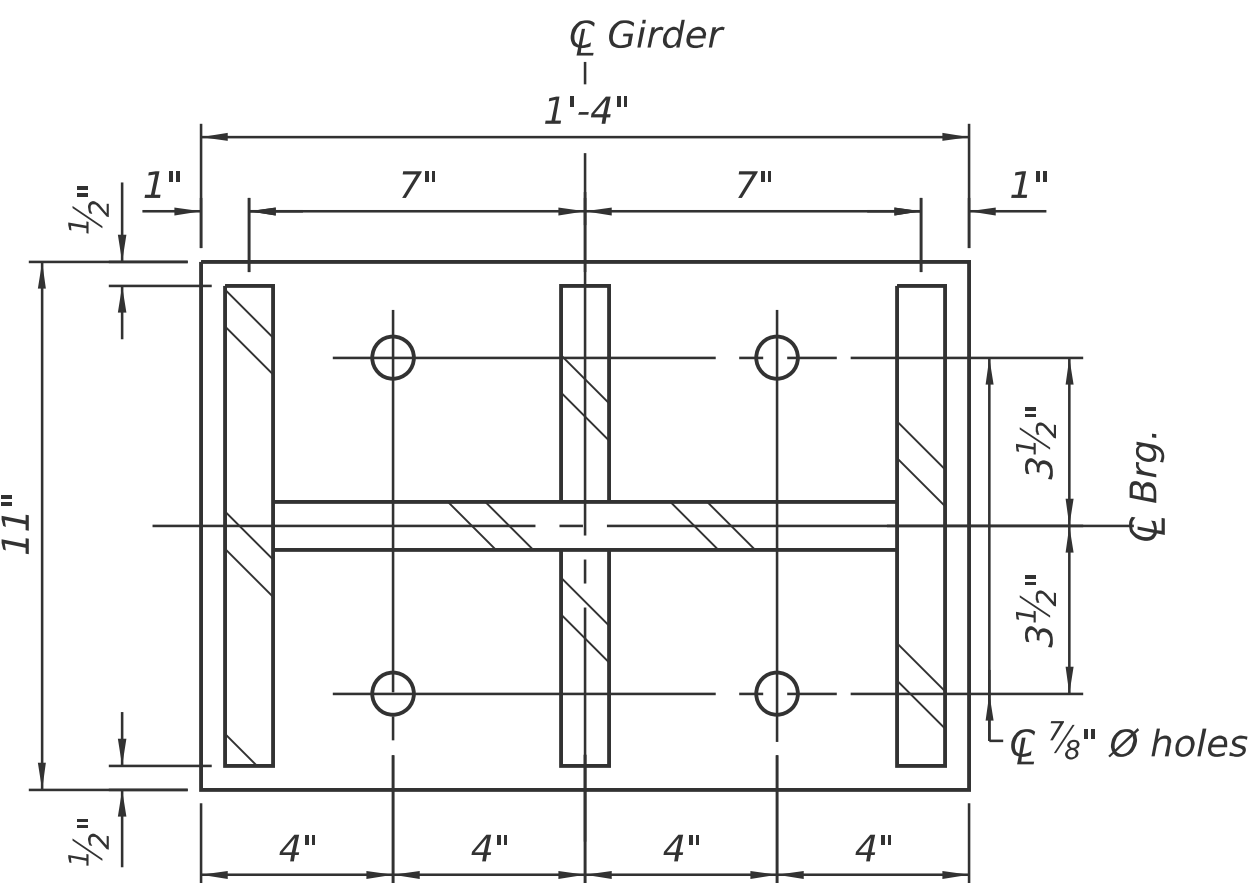
SECTION B-B



ELEVATION

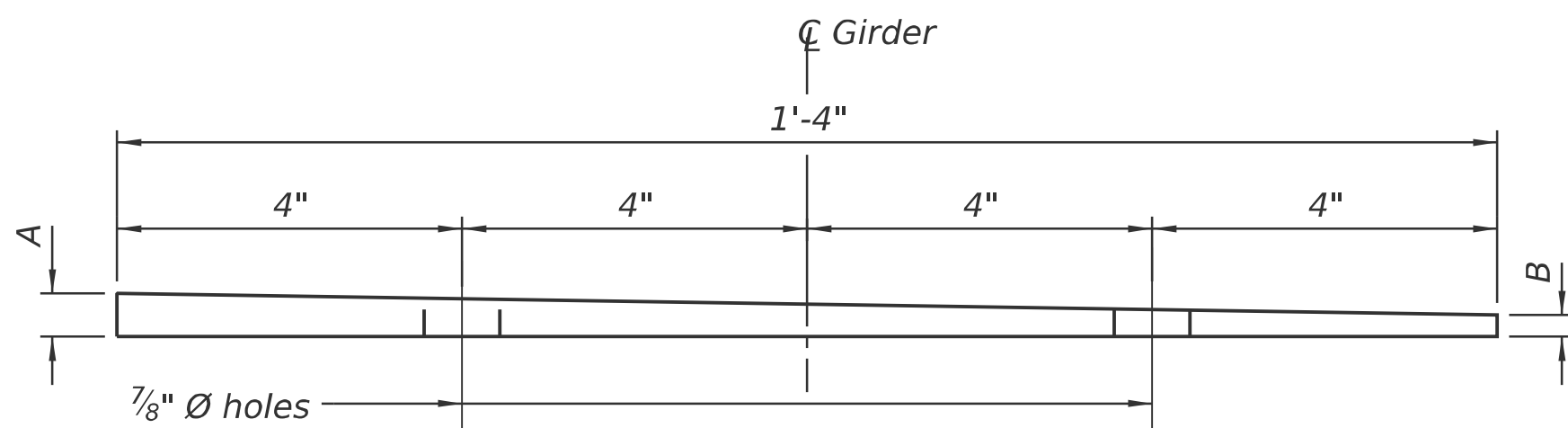


PLAN



SECTION C-C

FABRICATED STEEL EXTENSION



SHIM PLATE

See Shim Plate Tables for dimensions A & B

SN 058-0068 SHIM PLATE TABLE

Beam No.	North Abutment		South Abutment	
	A	B	A	B
1	0	0	0	0
2	0	0	3/8"	3/8"
3	1 1/8"	1 1/8"	0	0
4	7/8"	7/8"	0	0
5	7/8"	15/16"	1 1/16"	1 1/16"
6	7/16"	1/4"	1/4"	1/4"
7	1/4"	1/4"	0	0
8	0	0	0	0

SN 058-0069 SHIM PLATE TABLE

Beam No.	North Abutment		South Abutment	
	A	B	A	B
9	1/8"	3/16"	1/4"	1/4"
10	5/8"	1/4"	0	0
11	9/16"	3/8"	1/4"	1/4"
12	1"	1/2"	5/8"	5/8"
13	3/8"	1/8"	1/4"	1/4"
14	0	0	1/4"	1/4"
15	1/8"	3/16"	3/8"	3/8"
16	5/8"	1/4"	1/4"	1/4"
17	1/4"	1/4"	0	0
18	1/2"	1/2"	1/4"	1/4"

SN 058-0068 BEAM REACTION TABLE

	Existing Service Loads
R _{DL} (k)	44.5
R _L (k)	42.4
R _{IM} (k)	9.9
R _{TOTAL} (k)	96.8

SN 058-0069 BEAM REACTION TABLE

	Existing Service Loads
R _{DL} (k)	44.5
R _L (k)	42.4
R _{IM} (k)	9.9
R _{TOTAL} (k)	96.8

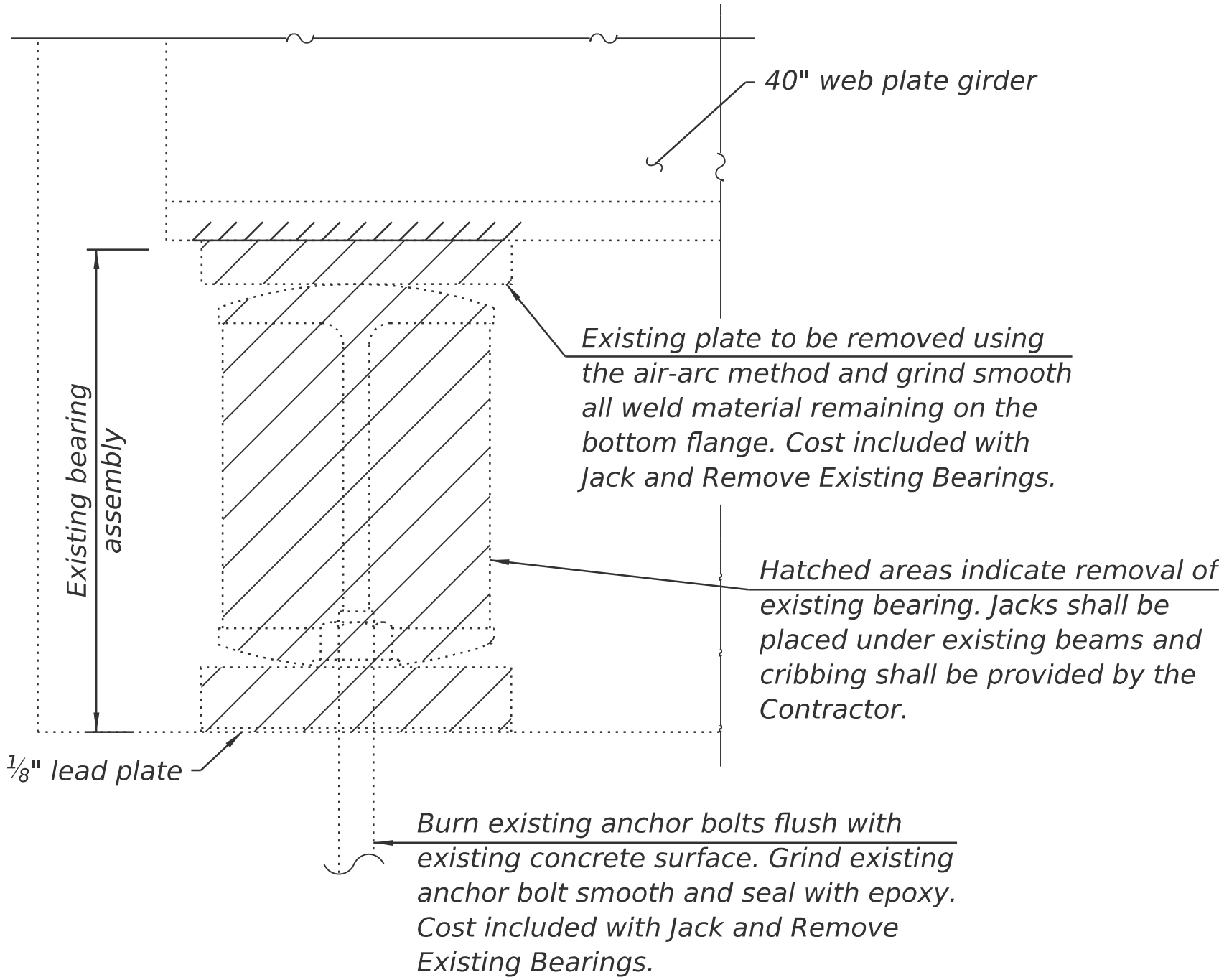
(Sheet 1 of 2)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BEARING DETAILS
SN 058-0068 (WB) & SN 058-0069 (EB)

SHEET 15 OF 33 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	D7 BRIDGE REPAIRS 2026-3	MACON	108	54
CONTRACT NO. 74D08				
ILLINOIS FED. AID PROJECT				



EXISTING BEARING REMOVAL DETAIL

Notes:

Prior to ordering any material, the Contractor shall verify in the field all bearing height and shim thickness dimensions.

Side retainers and stainless steel plates shall be included in the cost of Elastomeric Bearing Assembly, Type I.

The cost of new steel extensions, shim plates, connection bolts through the girder flanges, and field drilling holes in the girder bottom flanges are included with Furnishing and Erecting Structural Steel.

Minimum jack capacity = 70 Ton.

Two 1/8 inch adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.

Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.

For layout of side retainers, see Abutment Repairs Sheets 21 and 22 of 33.

Girder surfaces where the paint has been removed shall be spot cleaned and painted with an aluminum epoxy mastic primer followed by a finish coat to match the color of the existing girder. Cost of spot cleaning and painting is included with Jack and Remove Existing Bearings.

Numerous shim plates are required to match the existing bearing assembly heights. Many of the shim plates are tapered. See Shim Plate Tables for dimensions.

SN 058-0068 & SN 058-0069

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly, Type I	Each	36
Anchor Bolts, 1"	Each	64
Jack and Remove Existing Bearings	Each	36
Furnishing and Erecting Structural Steel	Pound	8,087

MODEL: Sheet
FILE NAME: Y:\DOT11445-01_74D08\74D08 DESIGN\CADD\SP SN 058-0068-0069\Common sheets\0580068-D774D08-16-BearingDtls.dgn



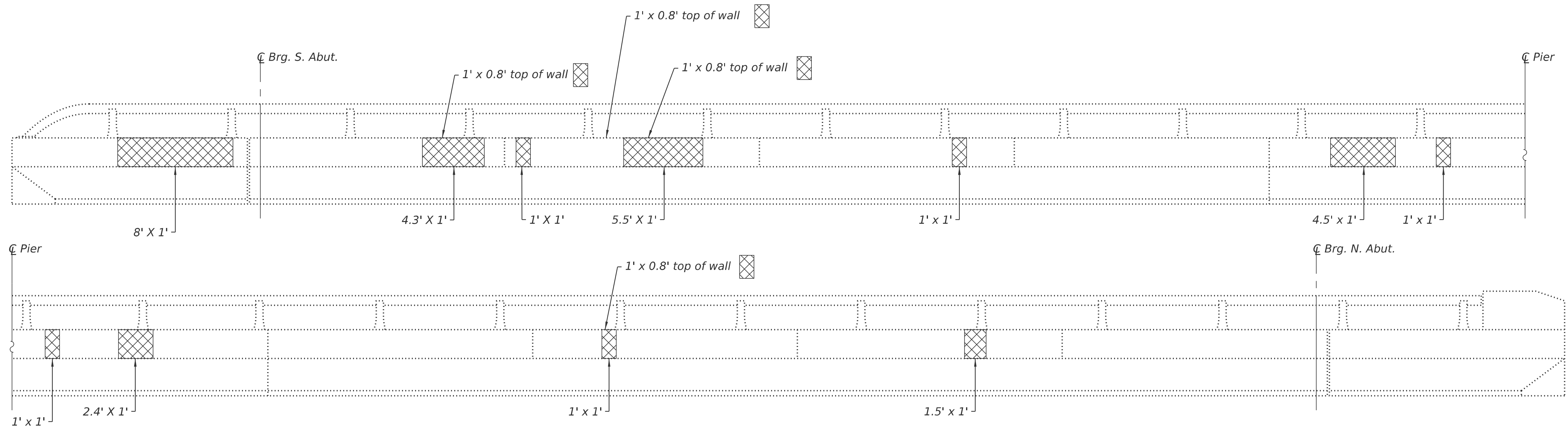
USER NAME = nhc	DESIGNED - ELH 07/25	REVISED -
ESCA PROJECT NO.= 1445.01	CHECKED - RDP 07/25	REVISED -
PLOT SCALE = 0:2 '"/td> <td>DRAWN - NHC 07/25</td> <td>REVISED -</td>	DRAWN - NHC 07/25	REVISED -
PLOT DATE = 1/20/2026	CHECKED - ELH 07/25	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

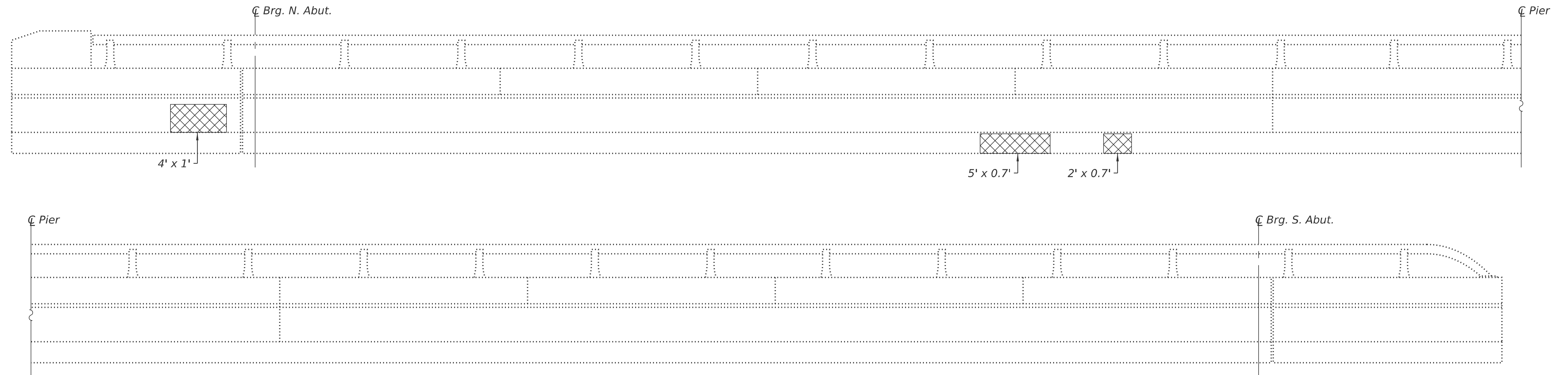
BEARING DETAILS
SN 058-0068 (WB) & SN 058-0069 (EB)

SHEET 16 OF 33 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	D7 BRIDGE REPAIRS 2026-3	MACON	108	55
CONTRACT NO. 74D08				
		ILLINOIS	FED. AID PROJECT	

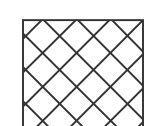


WEST RAILING INSIDE ELEVATION

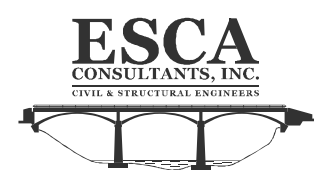


WEST RAILING OUTSIDE ELEVATION

LEGEND

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

MODEL: Sheet
FILE NAME: Y:\DOT11445-01_74D08\74D08 DESIGN\CADD\SP SN 058-0068-0069\Common sheets\0580068-D774D08-17-ParapetRepairs(WB).dgn



USER NAME = nhc	DESIGNED - ELH 07/25	REVISED -
ESCA PROJECT NO. = 1445.01	CHECKED - RDP 07/25	REVISED -
PLOT SCALE = 0.2'"/in.	DRAWN - NHC/ZTC 07/25	REVISED -
PLOT DATE = 1/20/2026	CHECKED - ELH 07/25	REVISED -

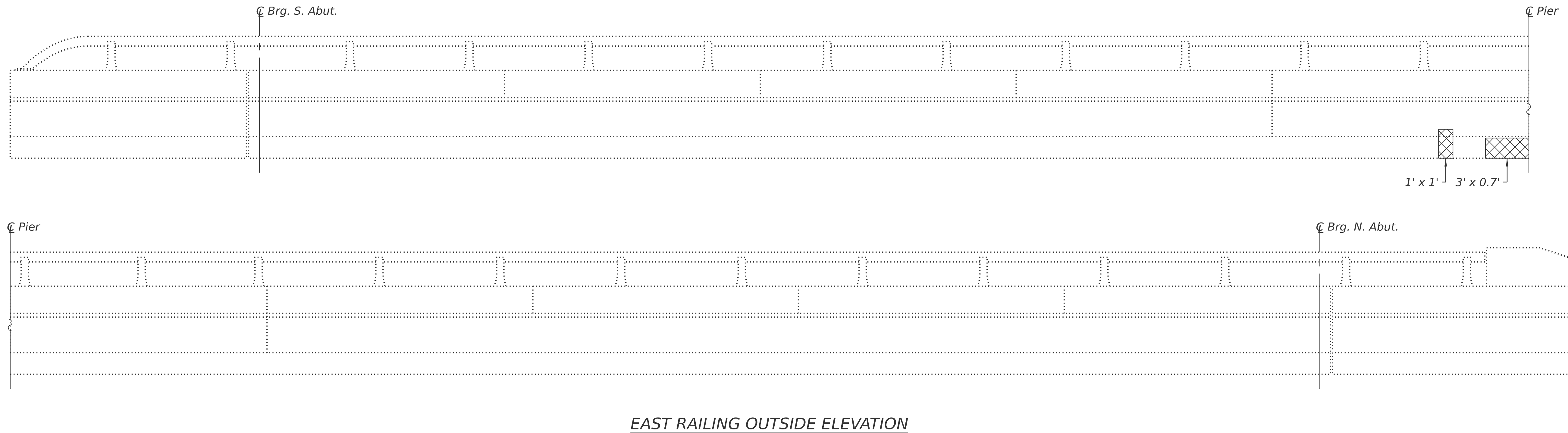
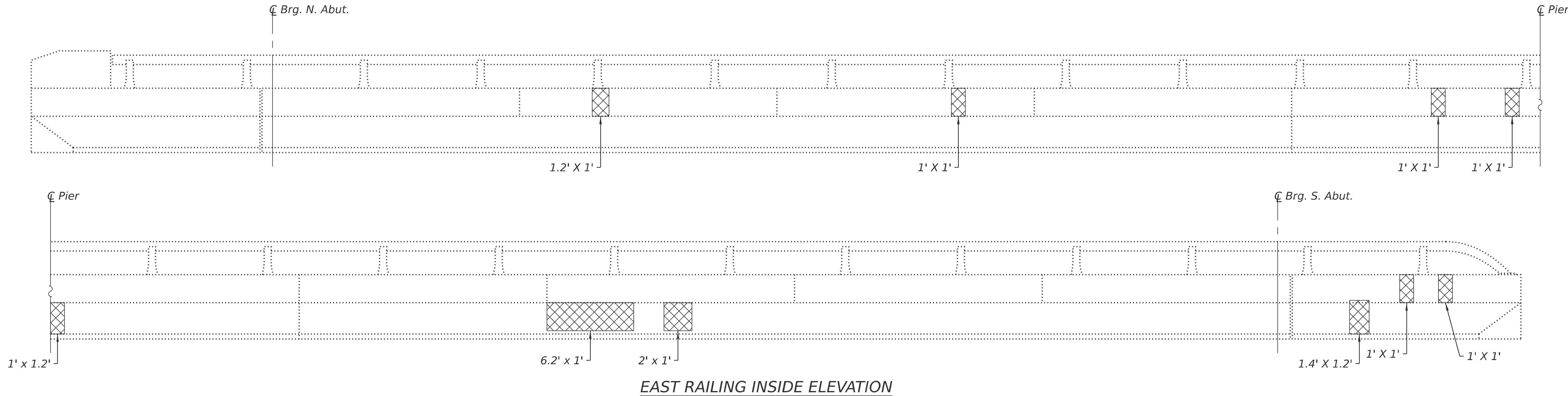
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

(Sheet 1 of 4)

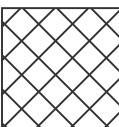
PARAPET REPAIRS
SN 058-0068 (WB)

SHEET 17 OF 33 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	D7 BRIDGE REPAIRS 2026-3	MACON	108	56
CONTRACT NO. 74D08				
		ILLINOIS	FED. AID PROJECT	



LEGEND

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

SN 058-0068 BILL OF MATERIAL

Item	Unit	Quantity
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	Sq. Ft.	63.7

(Sheet 2 of 4)

MODEL: Sheet
FILE NAME: Y:\DOT11445-01_74D08\74D08 DESIGN\CADD\SP SN 058-0068-0069\Common sheets\0580068-D774D08-18-ParapetRepairs(WB).dgn



USER NAME = nhc	DESIGNED - ELH 07/25	REVISED -
ESCA PROJECT NO. = 1445.01	CHECKED - RDP 07/25	REVISED -
PLOT SCALE = 0.2 '"/in.	DRAWN - NHC/ZTC 07/25	REVISED -
PLOT DATE = 1/20/2026	CHECKED - ELH 07/25	REVISED -

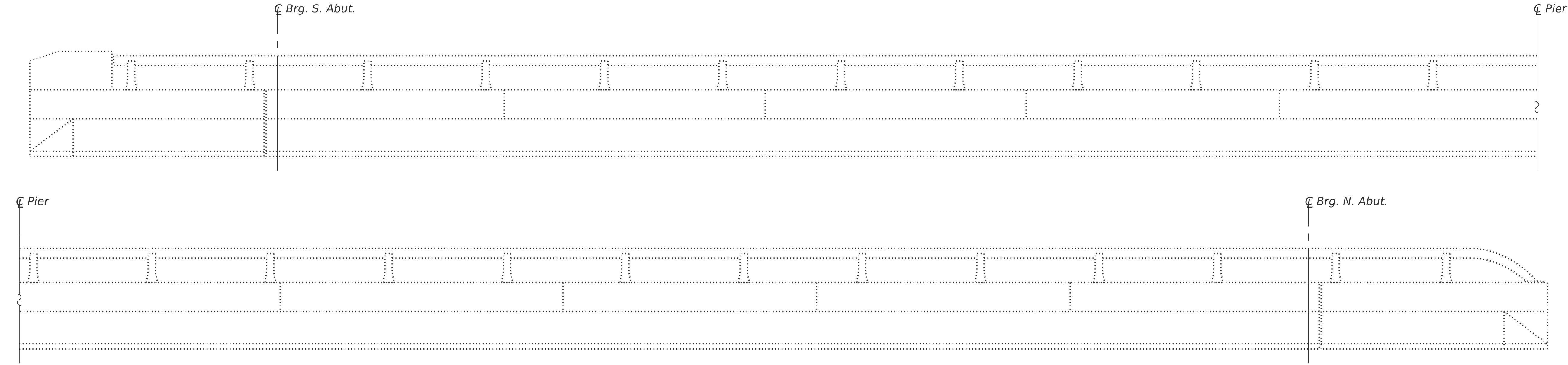
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PARAPET REPAIRS
SN 058-0068 (WB)

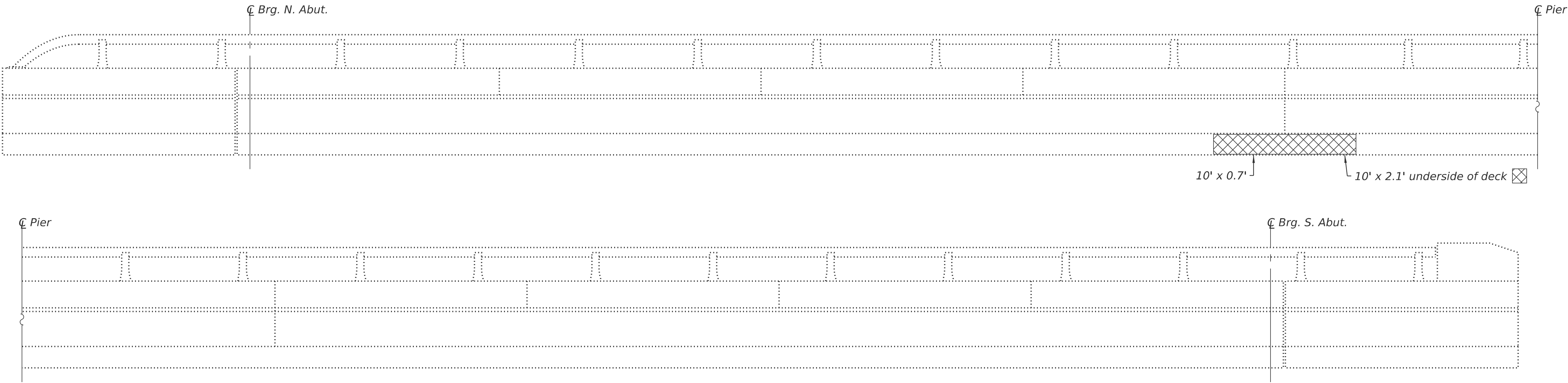
SHEET 18 OF 33 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	D7 BRIDGE REPAIRS 2026-3	MACON	108	57
CONTRACT NO. 74D08				
		ILLINOIS	FED. AID PROJECT	

MODEL: Sheet
FILE NAME: Y:\DOT1445-01_74D08\74D08 DESIGN\CADD\SP SN 058-0068-0069\Common sheets\0580068-D774D08-19-ParapetRepairs(EB).dgn

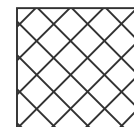


WEST RAILING INSIDE ELEVATION



WEST RAILING OUTSIDE ELEVATION

LEGEND

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

(Sheet 3 of 4)



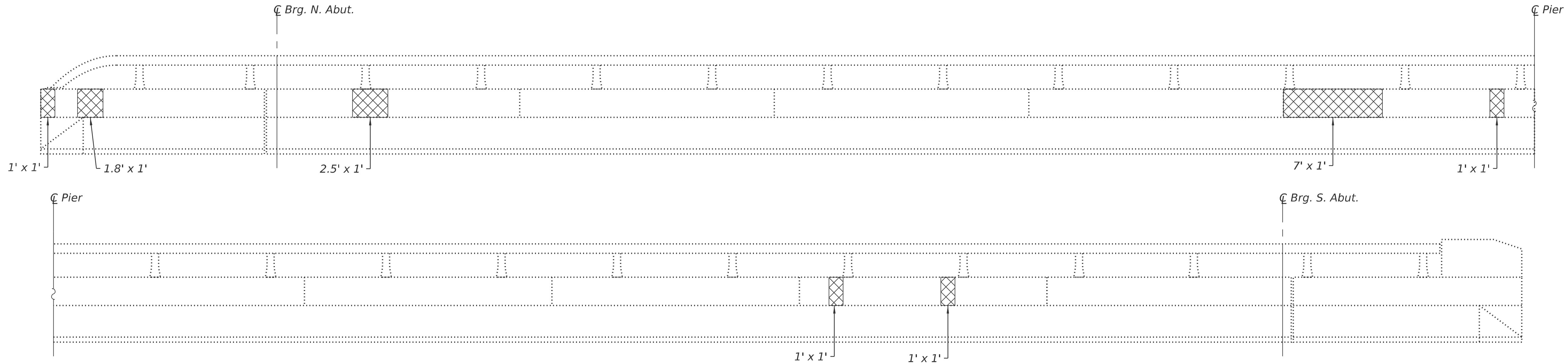
USER NAME = nhc	DESIGNED - ELH 07/25	REVISED -
ESCA PROJECT NO. = 1445.01	CHECKED - RDP 07/25	REVISED -
PLOT SCALE = 0:2' = 1" / in.	DRAWN - NHC/ZTC 07/25	REVISED -
PLOT DATE = 1/20/2026	CHECKED - ELH 07/25	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

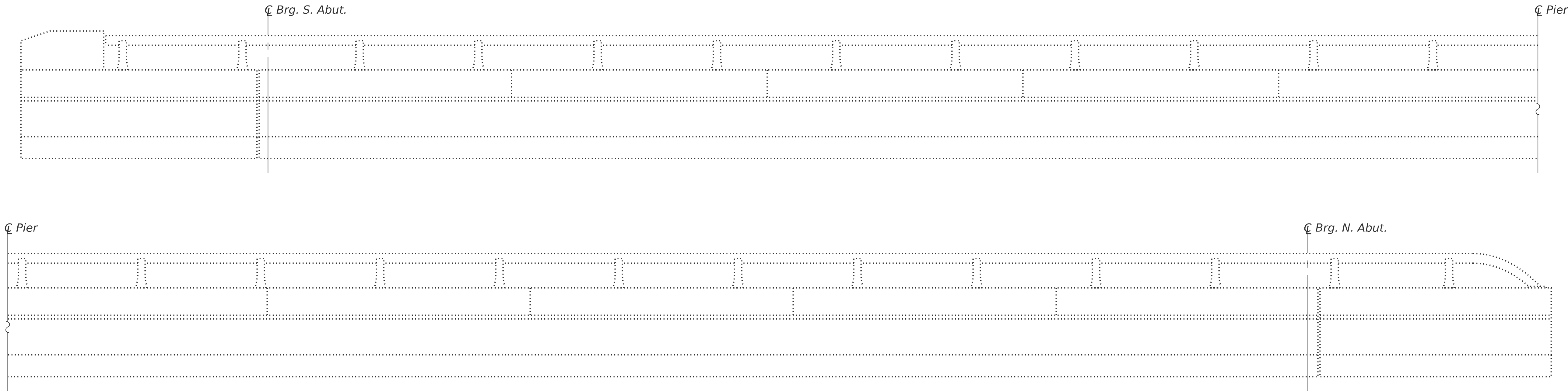
PARAPET REPAIRS
SN 058-0069 (EB)

SHEET 19 OF 33 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	D7 BRIDGE REPAIRS 2026-3	MACON	108	58
CONTRACT NO. 74D08				
		ILLINOIS	FED. AID PROJECT	

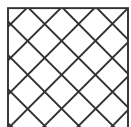


EAST RAILING INSIDE ELEVATION



EAST RAILING OUTSIDE ELEVATION

LEGEND

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

SN 058-0069 BILL OF MATERIAL

Item	Unit	Quantity
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	Sq. Ft.	43.3

(Sheet 4 of 4)

MODEL: Sheet
FILE NAME: Y:\DOT11445-01_74D08\74D08 DESIGN\CADD\SP SN 058-0068-0069\Common sheets\0580068-D774D08-20-ParapetRepairs(EB).dgn



USER NAME = nhc	DESIGNED - ELH 07/25	REVISED -
ESCA PROJECT NO. = 1445.01	CHECKED - RDP 07/25	REVISED -
PLOT SCALE = 0.2 '"/in.	DRAWN - NHC/ZTC 07/25	REVISED -
PLOT DATE = 1/20/2026	CHECKED - ELH 07/25	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

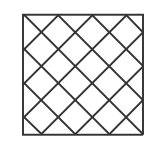
PARAPET REPAIRS
SN 058-0069 (EB)

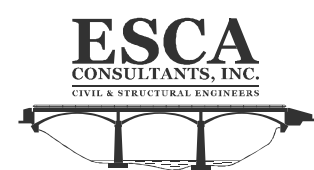
SHEET 20 OF 33 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	D7 BRIDGE REPAIRS 2026-3	MACON	108	59
CONTRACT NO. 74D08				
		ILLINOIS	FED. AID PROJECT	

MODEL: Sheet
FILE NAME: Y:\DOT11445-01_74D08\74D08 DESIGN\CADD\SP SN 058-0068-0069\Common sheets\0580068-D774D08-21-AbutRepairs(WB).dgn

LEGEND

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



USER NAME = nhc
ESCA PROJECT NO. = 1445.01
PLOT SCALE = 0.2" = 1' / in.
PLOT DATE = 1/20/2026

DESIGNED - ELH 07/25
CHECKED - RDP 07/25
DRAWN - NHC 01/26
CHECKED - ELH 01/26

REVISED -
REVISED -
REVISED -
REVISED -

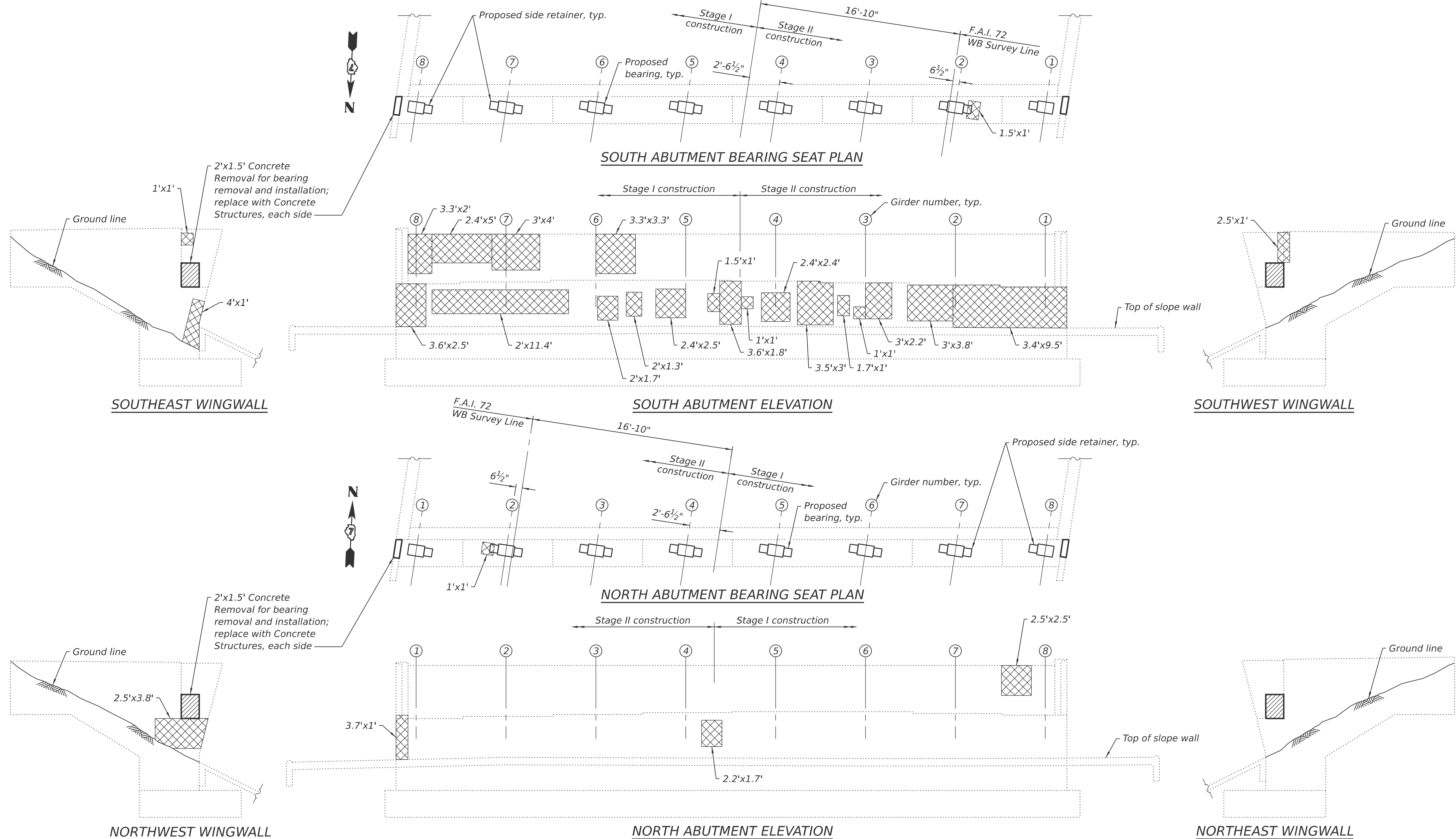
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ABUTMENT REPAIRS
SN 058-0068 (WB)

SHEET 21 OF 33 SHEETS

SN 058-0068 BILL OF MATERIAL

Item	Unit	Quantity
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	Sq. Ft.	196.7
Concrete Removal	Cu. Yd.	0.3
Concrete Structures	Cu. Yd.	0.3

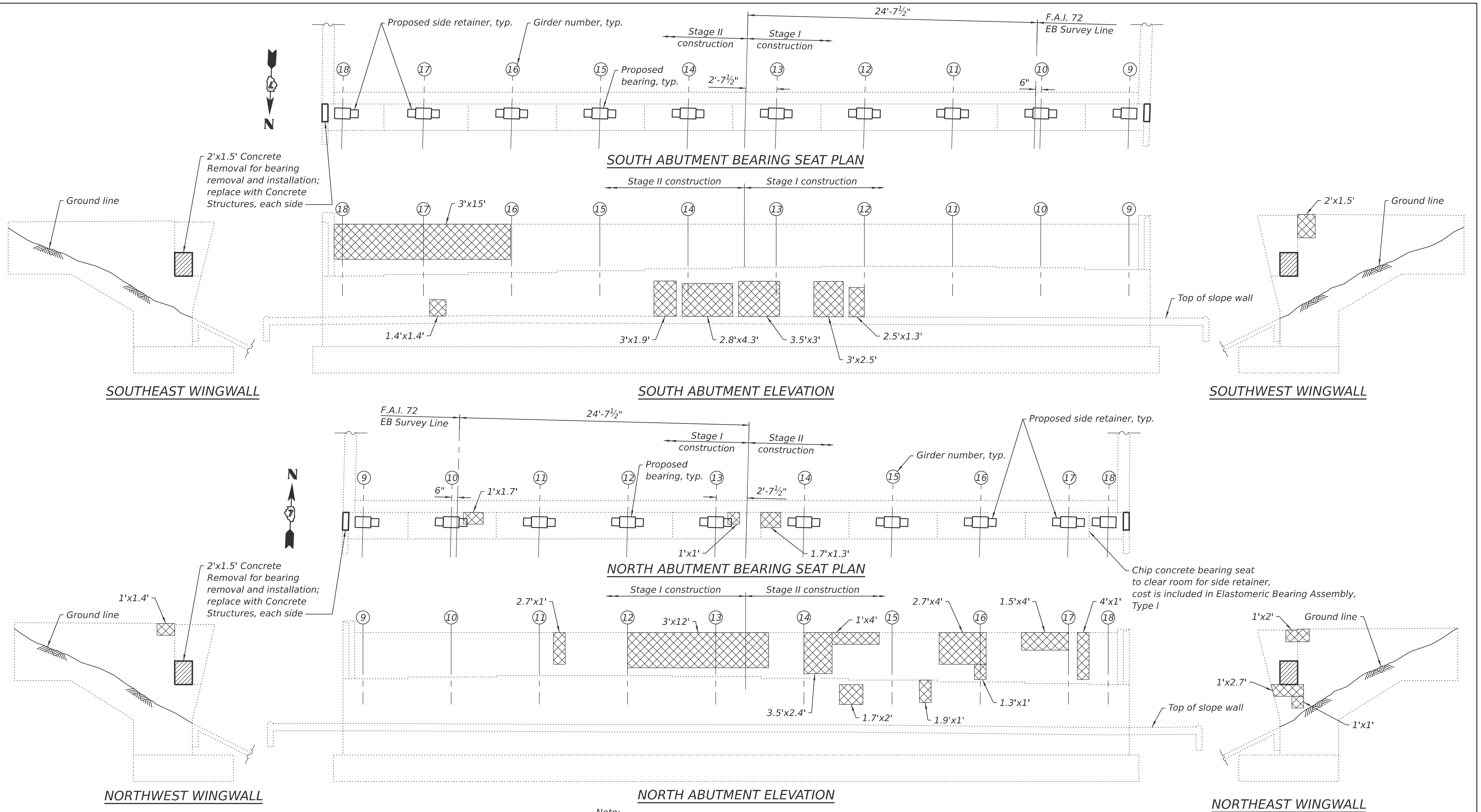


Note:
1. Abutment repairs shall be staged according to the same dimensions and locations as shown for the superstructure.

(Sheet 1 of 2)

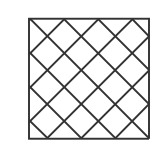
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	D7 BRIDGE REPAIRS 2026-3	MACON	108	60
CONTRACT NO. 74D08				
ILLINOIS FED. AID PROJECT				

MODEL: Sheet
FILE NAME: Y:\DOT11445-01_Z4D08\74D08 DESIGN\CADD\SP SN 058-0068-0069\Common sheets\0580068-D774D08-22-AbutRepairs(EB).dgn



Note:
1. Abutment repairs shall be staged according to the same dimensions and locations as shown for the superstructure.

LEGEND

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

SN 058-0069 BILL OF MATERIAL

Item	Unit	Quantity
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	Sq. Ft.	179.5
Concrete Removal	Cu. Yd.	0.3
Concrete Structures	Cu. Yd.	0.3

(Sheet 2 of 2)



USER NAME = nhc
ESCA PROJECT NO. = 1445.01
PLOT SCALE = 0.2" = 1' / in.
PLOT DATE = 1/20/2026

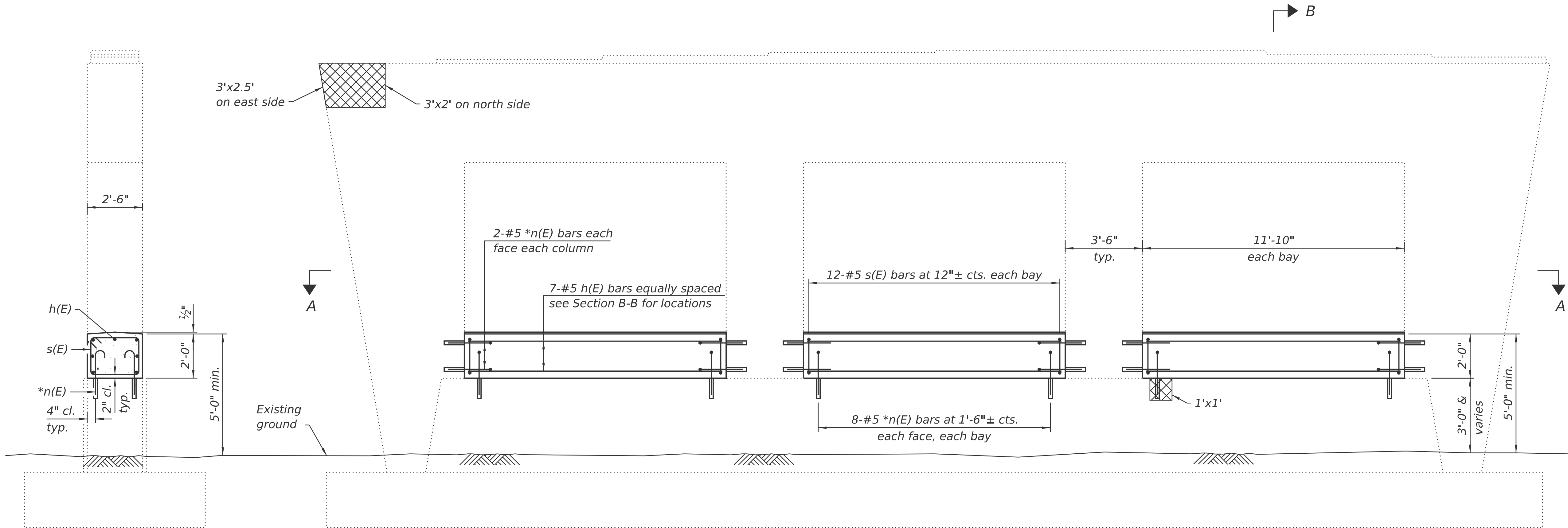
DESIGNED	-	ELH	07/25	REVISED	-
CHECKED	-	RDP	07/25	REVISED	-
DRAWN	-	NHC	07/25	REVISED	-
CHECKED	-	ELH	07/25	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ABUTMENT REPAIRS
SN 058-0069 (EB)

SHEET 22 OF 33 SHEETS

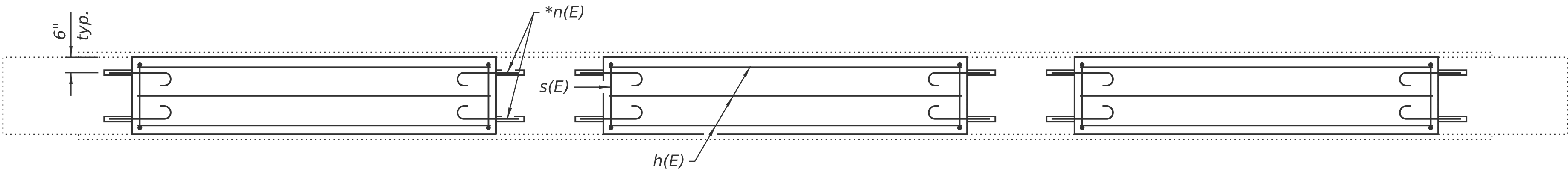
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	D7 BRIDGE REPAIRS 2026-3	MACON	108	61
CONTRACT NO. 74D08				
ILLINOIS FED. AID PROJECT				



SECTION B-B

ELEVATION
(Looking North)

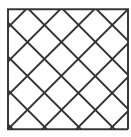
*Epoxy grout n(E) bars in 9" min. holes according to Article 584 of the Standard Specifications. Adjust locations to clear existing reinforcement. Cost is included in Reinforcement Bars, Epoxy Coated.

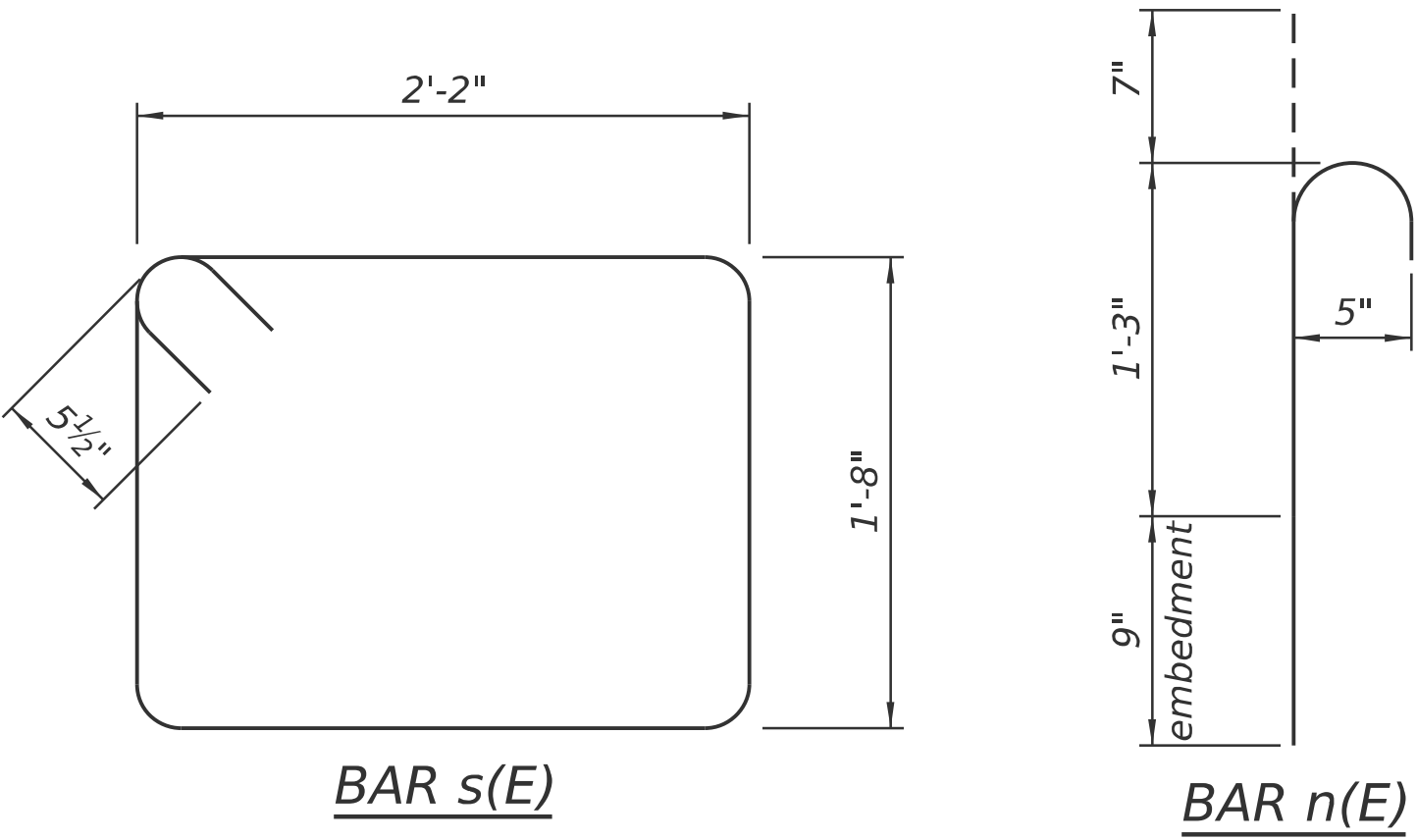


SECTION A-A

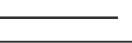


LEGEND

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



SN 058-0068 BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	21	#5	11'-6"	
n(E)	72	#5	2'-7"	
s(E)	36	#5	8'-7"	
Concrete Structures			Cu. Yd.	6.7
Reinforcement Bars, Epoxy Coated			Pound	770
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)			Sq. Ft.	14.5

(Sheet 1 of 2)

MODEL: Sheet
FILE NAME: Y:\DOT11445-01_74D08\74D08 DESIGN\CADD\SP SN 058-0068-0069\Common sheets\0580068-D774D08-23-PierRepairs(WB).dgn
1/20/2026 10:00:45 AM



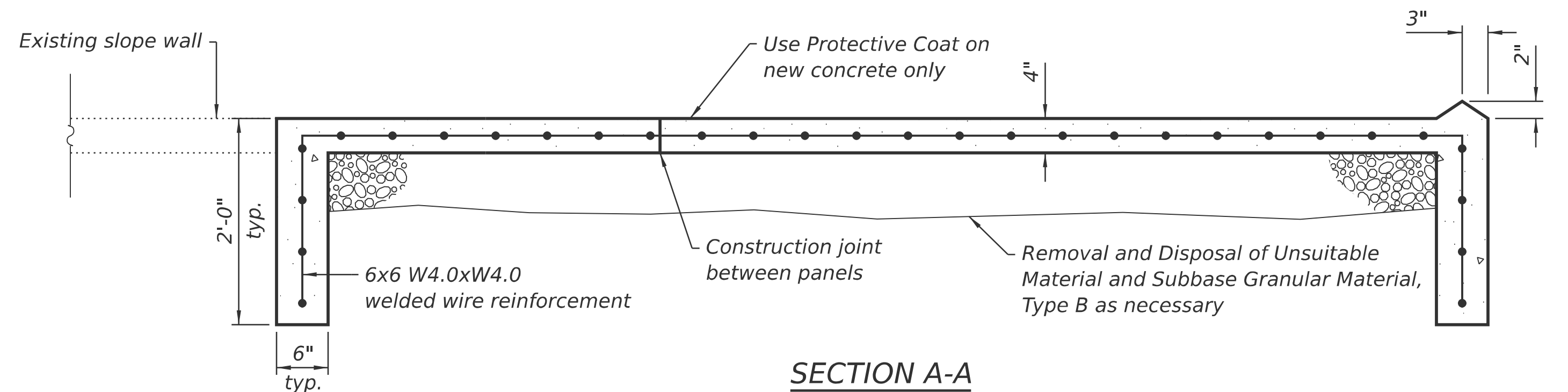
USER NAME = nhc	DESIGNED - ELH 07/25	REVISED -
ESCA PROJECT NO. = 1445.01	CHECKED - RDP 07/25	REVISED -
PLOT SCALE = 0.2' = 1" / in.	DRAWN - NHC 07/25	REVISED -
PLOT DATE = 1/20/2026	CHECKED - ELH 07/25	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER REPAIRS
SN 058-0068 (WB)

SHEET 23 OF 33 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	D7 BRIDGE REPAIRS 2026-3	MACON	108	62
CONTRACT NO. 74D08				
ILLINOIS FED. AID PROJECT				



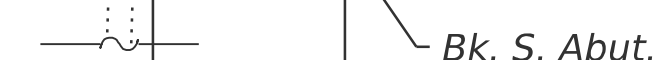
- Notes:
1. Prior to partial removal of slope wall, a $\frac{3}{4}$ " deep saw cut shall be made along all boundaries of the removal areas. Saw cuts will be included in the cost of Slope Wall Repair.
 2. The existing riprap and other unsuitable embankment material shall be removed as directed by the Engineer. The removal will be paid for as Removal and Disposal of Unsuitable Materials. In these areas the embankment shall be reconstructed with Subbase Granular Material, Type B. The Subbase Granular Material shall be gradation CA6 unless otherwise specified by the Engineer.
 3. At locations where the concrete slope wall is still intact but has been undermined, Slope Wall Slurry Pumping shall be used to replace the base under the existing slope wall.
 4. Quantities and locations are approximated. Actual quantities and locations are to be determined in the field by the Engineer. This work is intended to repair only areas of severe deterioration. Some minor deteriorated areas may be left unrepaired.

<i>Item</i>	<i>Unit</i>	<i>Quantity</i>
<i>Slope Wall Repair</i>	<i>Sq. Yd.</i>	<i>66</i>
<i>Slope Wall Slurry Pumping</i>	<i>Cu. Yd.</i>	<i>20</i>
<i>Protective Coat</i>	<i>Sq. Yd.</i>	<i>66</i>
<i>Subbase Granular Material, Type B</i>	<i>Ton</i>	<i>30</i>
<i>Removal and Disposal of Unsuitable Material</i>	<i>Cu. Yd.</i>	<i>15</i>



Concrete gutter

*Along slope



SOUTH SLOPE WALL PLAN



Slope Wall Slurry Pumping

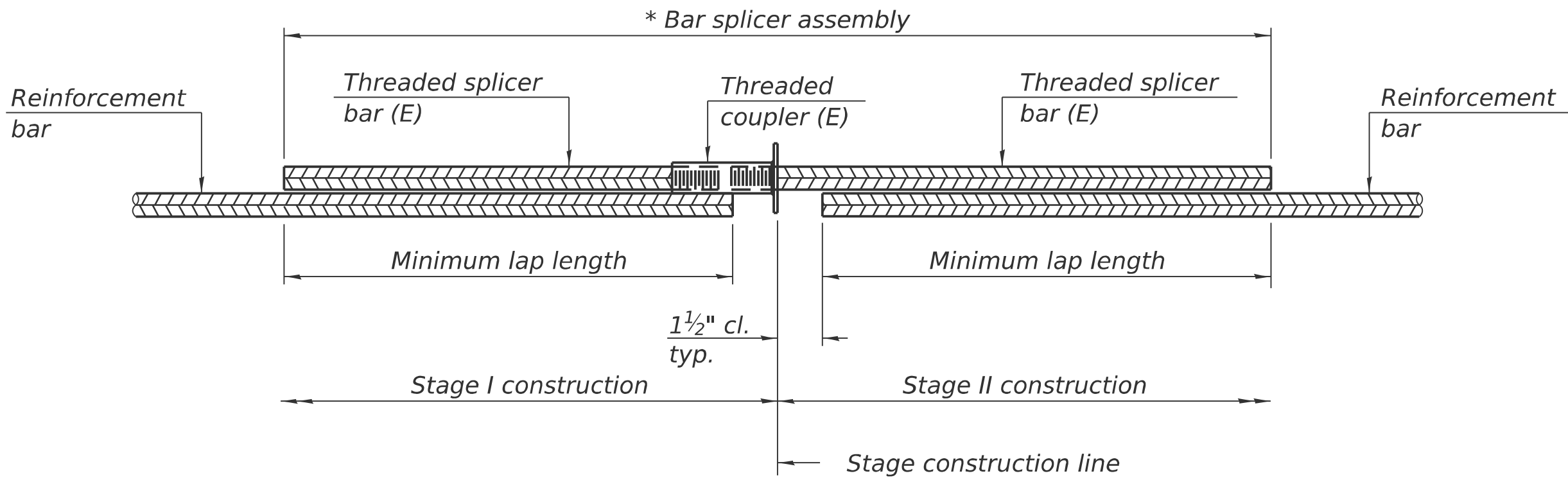
1. Prior to partial removal of slope wall, a 3/4" deep saw cut shall be made along all boundaries of the removal areas. Saw cuts will be included in the cost of Slope Wall Repair.
2. The existing riprap and other unsuitable embankment material shall be removed as directed by the Engineer. The removal will be paid for as Removal and Disposal of Unsuitable Materials. In these areas the embankment shall be reconstructed with Subbase Granular Material, Type B. The Subbase Granular Material shall be gradation CA6 unless otherwise specified by the Engineer.
3. At locations where the concrete slope wall is still intact but has been undermined, Slope Wall Slurry Pumping shall be used to replace the base under the existing slope wall.
4. Quantities and locations are approximated. Actual quantities and locations are to be determined in the field by the Engineer. This work is intended to repair only areas of severe deterioration. Some minor deteriorated areas may be left unrepaired.



(Showing Slope Wall Repair)



Item	Unit	Quantity
Slope Wall Repair	Sq. Yd.	82
Slope Wall Slurry Pumping	Cu. Yd.	5
Protective Coat	Sq. Yd.	82
Subbase Granular Material, Type B	Ton	45
Removal and Disposal of Unsuitable Material	Cu. Yd.	22



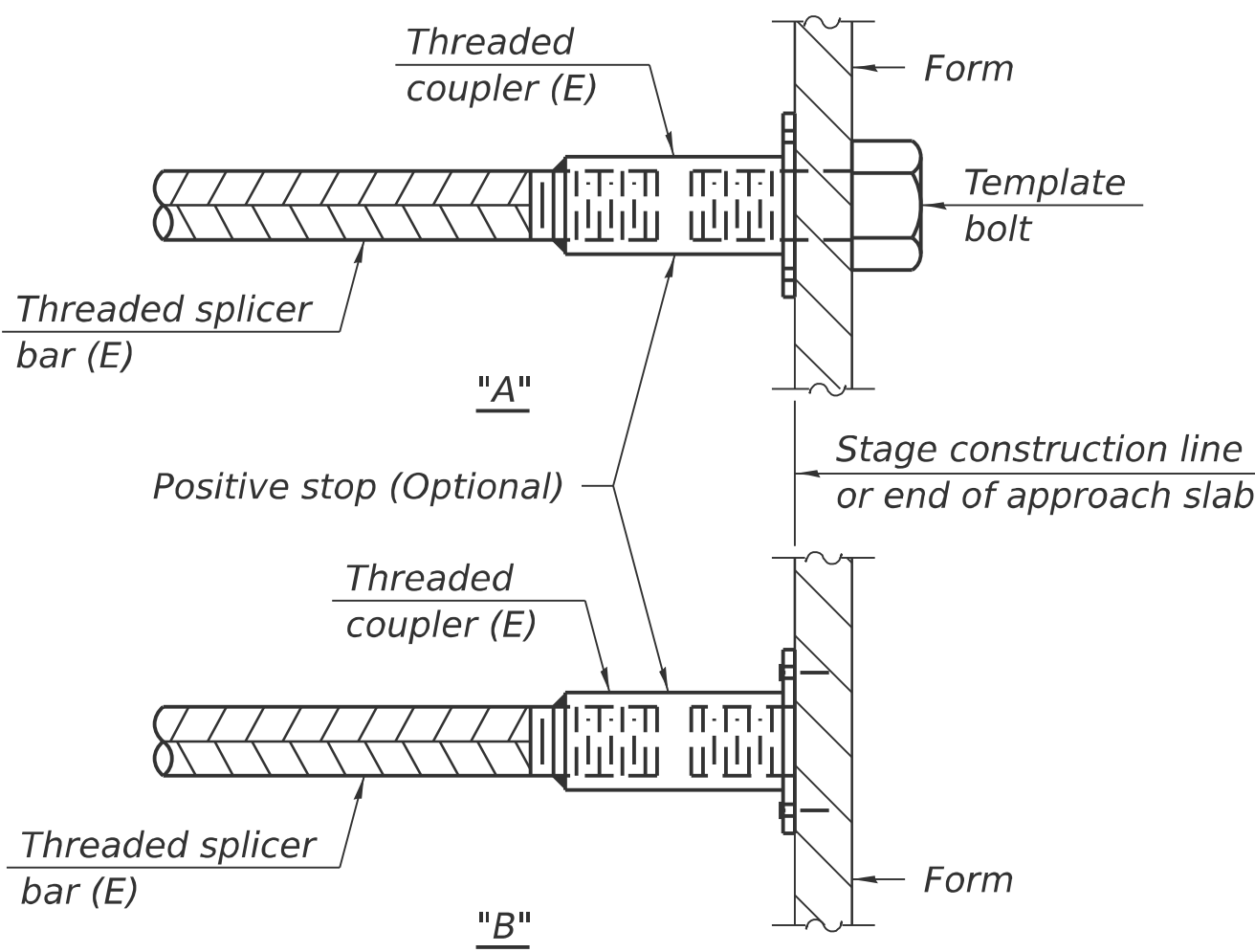
STANDARD BAR SPLICER ASSEMBLY PLAN

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

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

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

Location	Bar size	No. assemblies required	Minimum lap length
SN 058-0068 Spans 1 & 4 slabs	#5	4	3'-5"
SN 058-0068 Spans 2 & 3 deck	#6	16	5'-3"
SN 058-0069 Spans 1 & 4 slabs	#5	4	3'-5"
SN 058-0069 Spans 2 & 3 deck	#6	16	5'-3"

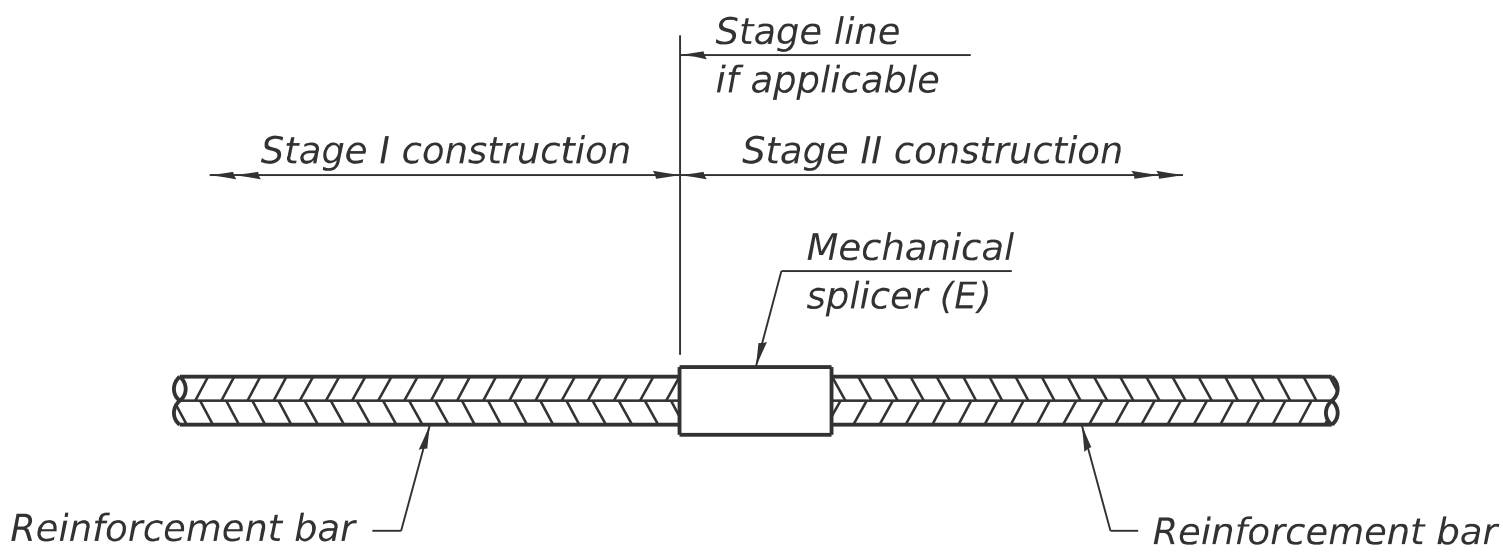


INSTALLATION AND SETTING METHODS

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

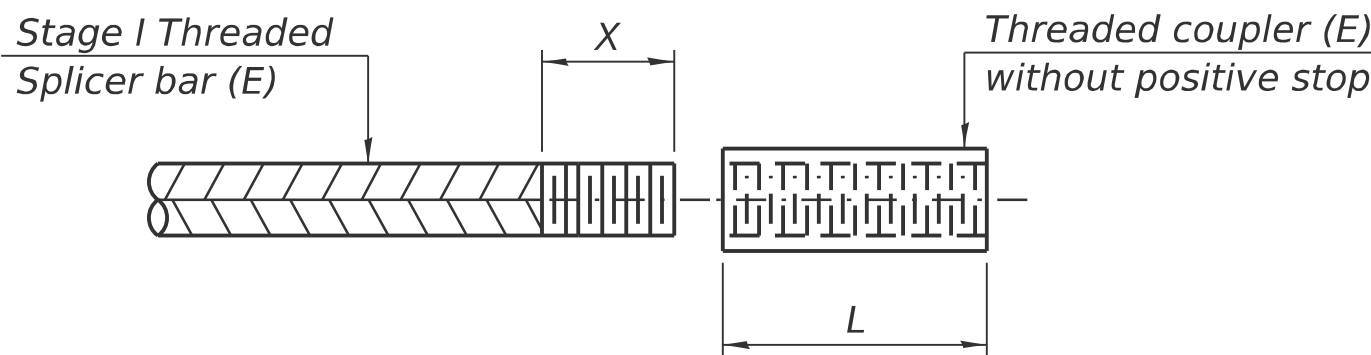
"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

(E) : Indicates epoxy coating.



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required
NA		



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:

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.

All reinforcement shall be lapped and tied to the splicer bars.

Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.

See approved list of bar splicer assemblies and mechanical splicers for alternatives.

BSD-1

4-4-2025

MODEL: Sheet
FILE NAME: Y:\DOT11445-01_Z4D08\74D08 DESIGN\CADD\SP SN 058-0068-0069\Common sheets\0580068-D774D08-27-BarSplice.dgn



USER NAME = nhc	DESIGNED - ELH 07/25	REVISED -
ESCA PROJECT NO. = 1445.01	CHECKED - RDP 07/25	REVISED -
PLOT SCALE = 0.2 '"/in.	DRAWN - NHC 07/25	REVISED -
PLOT DATE = 1/20/2026	CHECKED - ELH 07/25	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

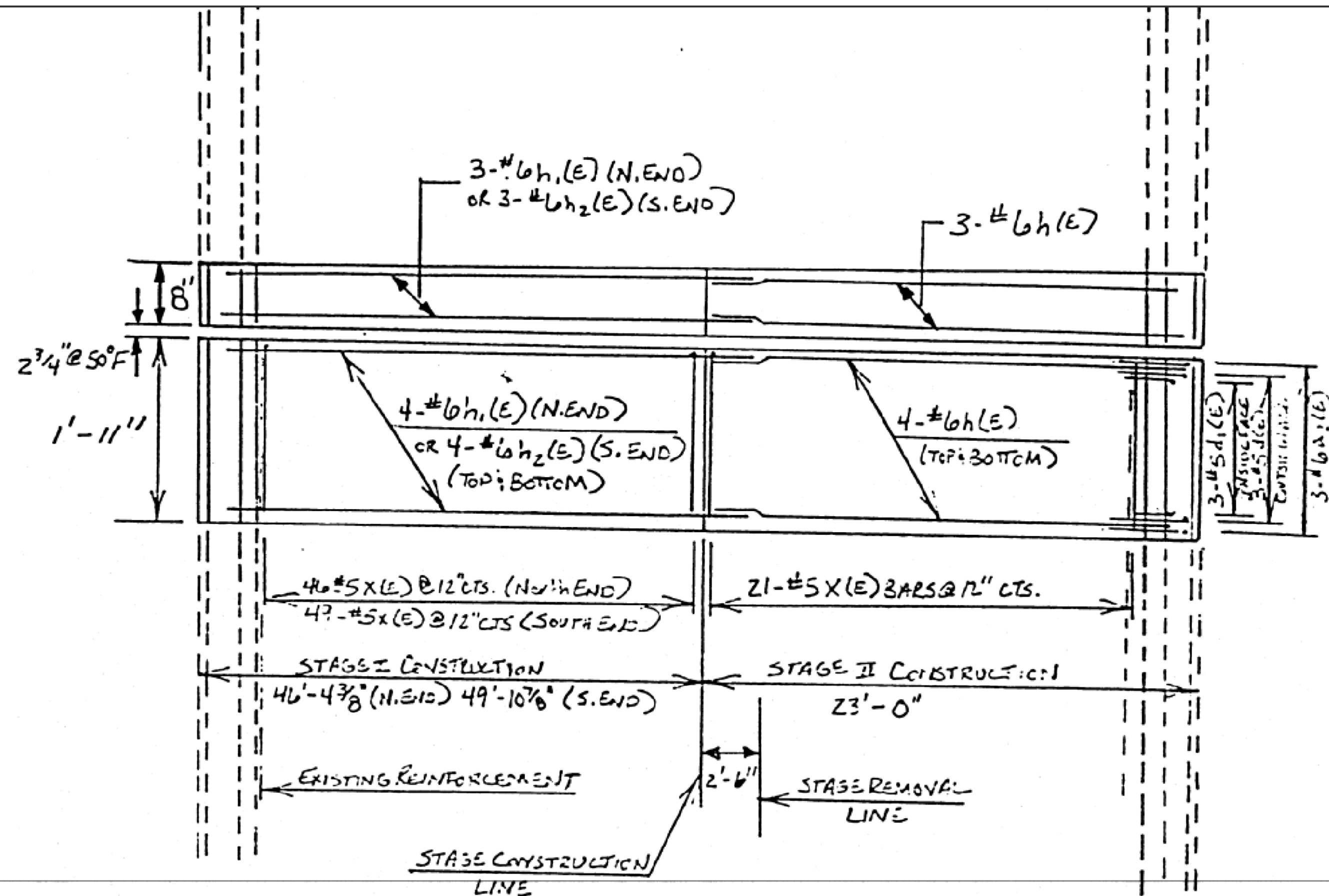
BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
SN 058-0068 (WB) & SN 058-0069 (EB)

SHEET 27 OF 33 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	D7 BRIDGE REPAIRS 2026-3	MACON	108	66
CONTRACT NO. 74D08				
		ILLINOIS	FED. AID PROJECT	

1/20/2026

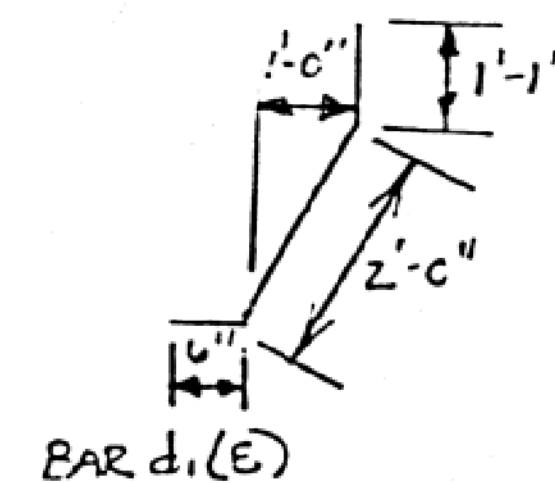
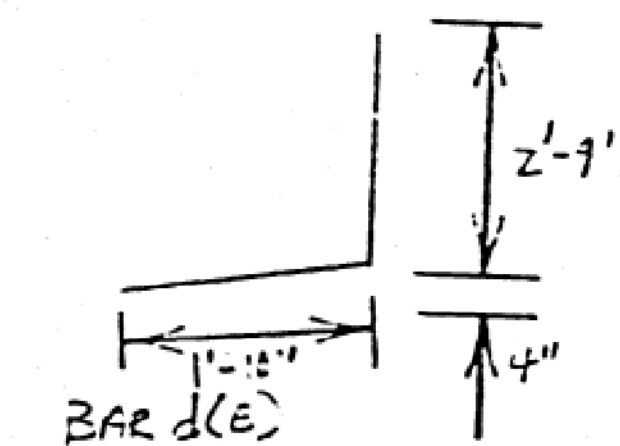
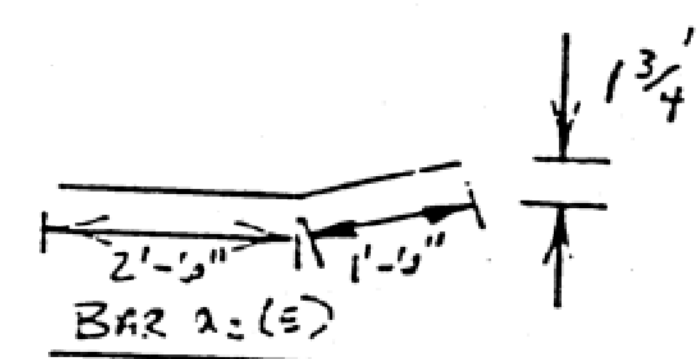
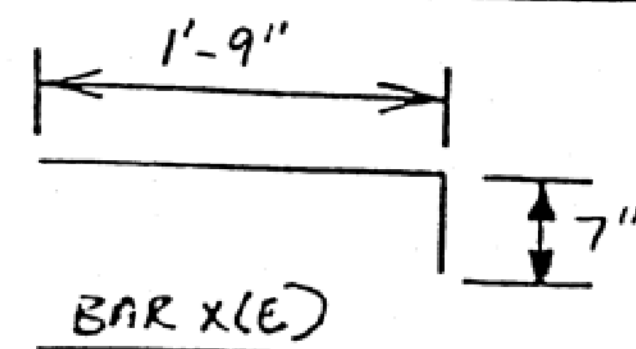
10:00:48 AM



PLAN VIEW
(SHOWING REPLACEMENT)

BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
h(E)	22	#6	22'-9"	—
h1(E)	11	#6	48'-1"	—
h2(E)	11	#6	51'-7"	—
h3(E)	12	#6	4'-0"	—
d(E)	12	#5	4'-7"	└┐
d1(E)	12	#5	3'-7"	└┐
x(E)	137	#5	2'-4"	└┐
REINFORCEMENT BARS (E)			POUNDS	2906
CONCRETE SUPERSTRUCTURE			CU. YDS.	11.5



(Sheet 1 of 6)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS - FOR INFORMATION ONLY
SN 058-0069 (EB)

SHEET 28 OF 33 SHEETS

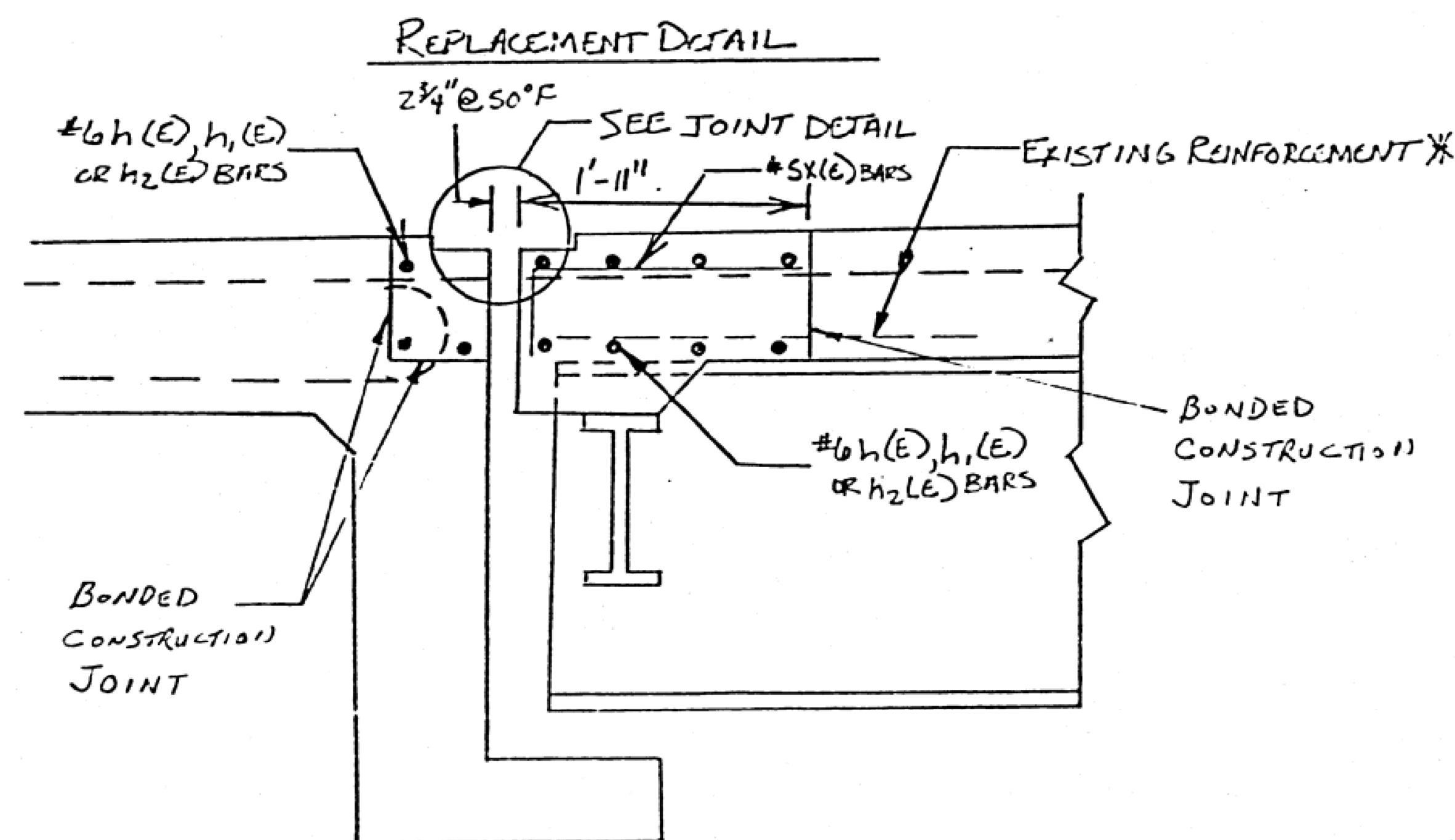
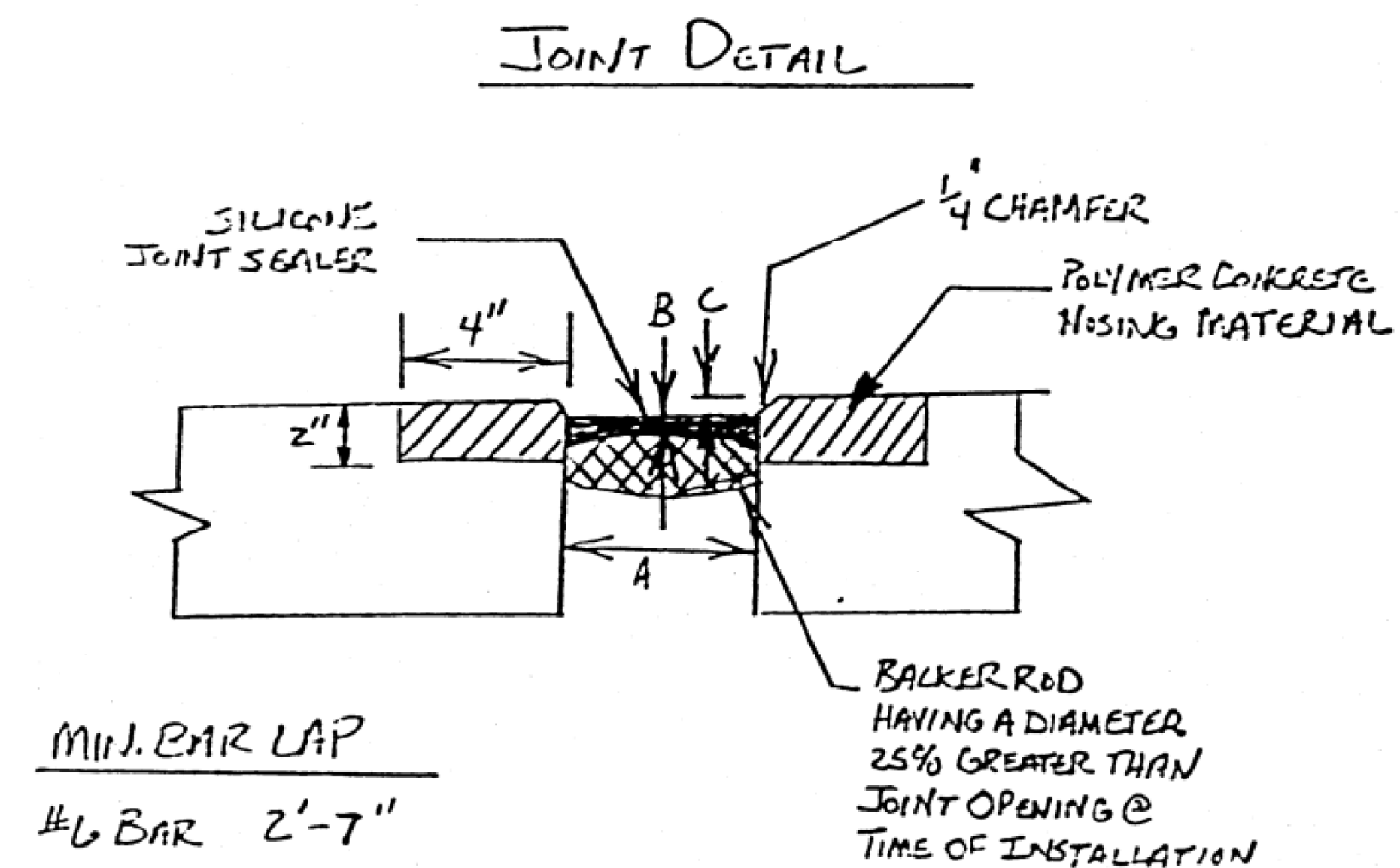
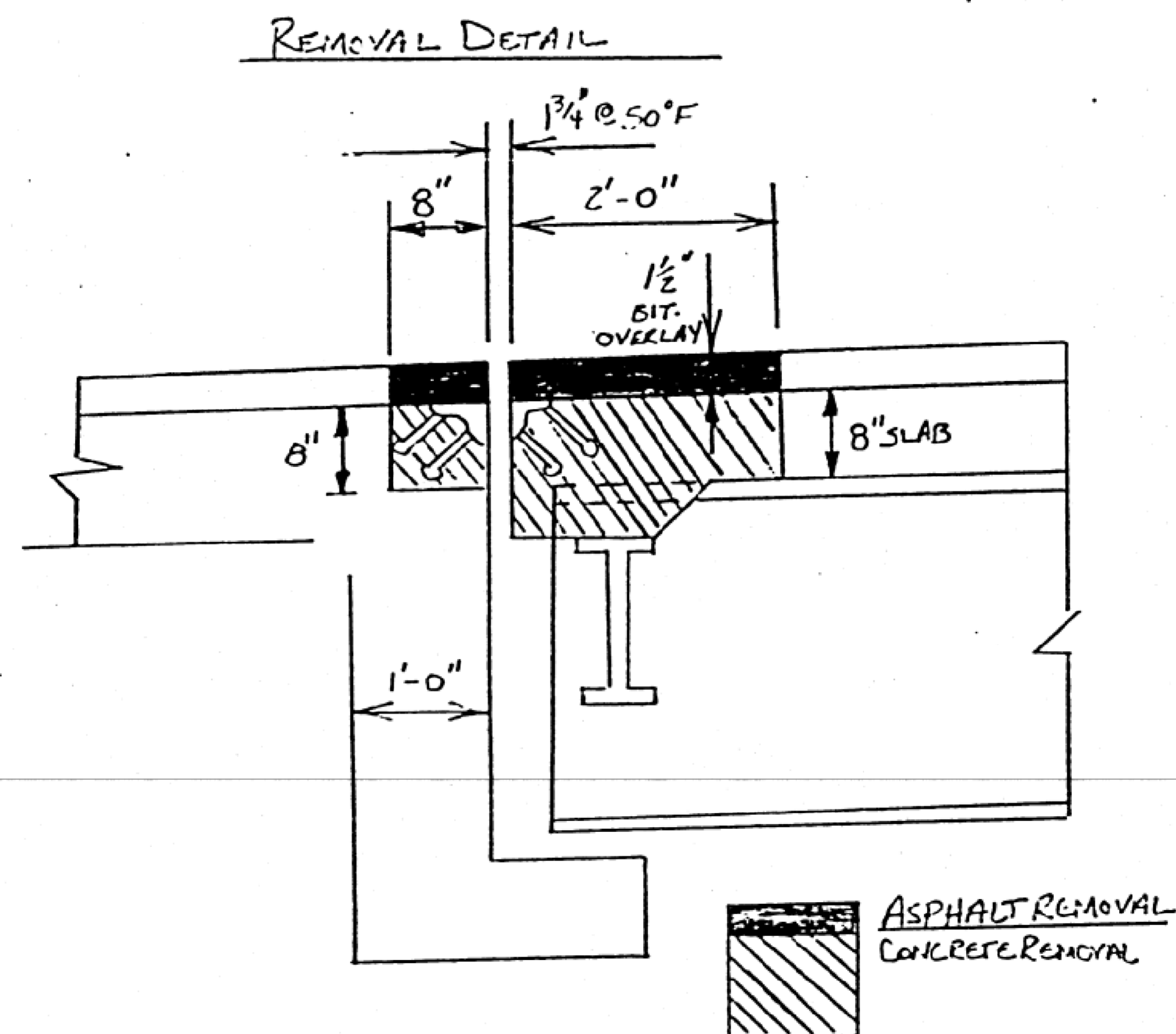
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	D7 BRIDGE REPAIRS 2026-3	MACON	108	67
CONTRACT NO. 74D08				
ILLINOIS FED. AID PROJECT				



USER NAME = nhc
ESCA PROJECT NO. = 1445.01
PLOT SCALE = 0.2" / in.
PLOT DATE = 1/20/2026

DESIGNED - ELH 07/25
CHECKED - RDP 07/25
DRAWN - NHC 07/25
CHECKED - ELH 07/25

REVISED -
REVISED -
REVISED -
REVISED -



	A	B	C
	JOINT OPENING	SEALANT THICKNESS	SEALANT ACCESS
NORTH ABUTMENT	2 3/4"	5/8"	3/4"
SOUTH ABUTMENT	2 3/4"	5/8"	3/4"

NOTE: NORTH AND SOUTH JOINTS 2 3/4" @ 50°F
ALL MATERIALS, INSTALLATION PROCEDURES AND DIMENSIONS SHALL CONFORM TO THE SPECIAL PROVISIONS AND MANUFACTURER RECOMMENDATIONS.

* EXISTING REINFORCEMENT BARS TO BE RE-USED, SHALL BE CLEANED AND STRAIGHTENED PRIOR TO INCORPORATING INTO THE NEW CONCRETE.

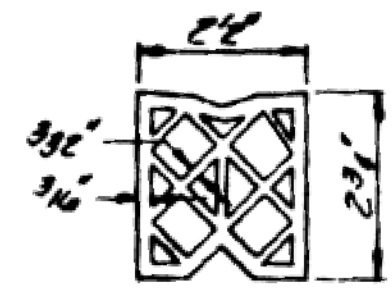
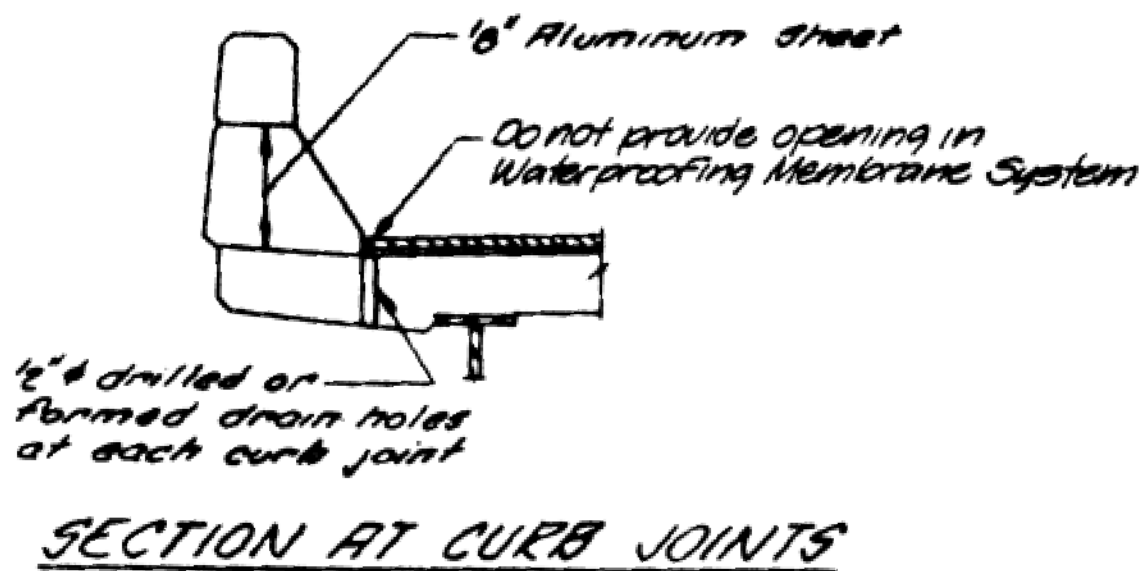
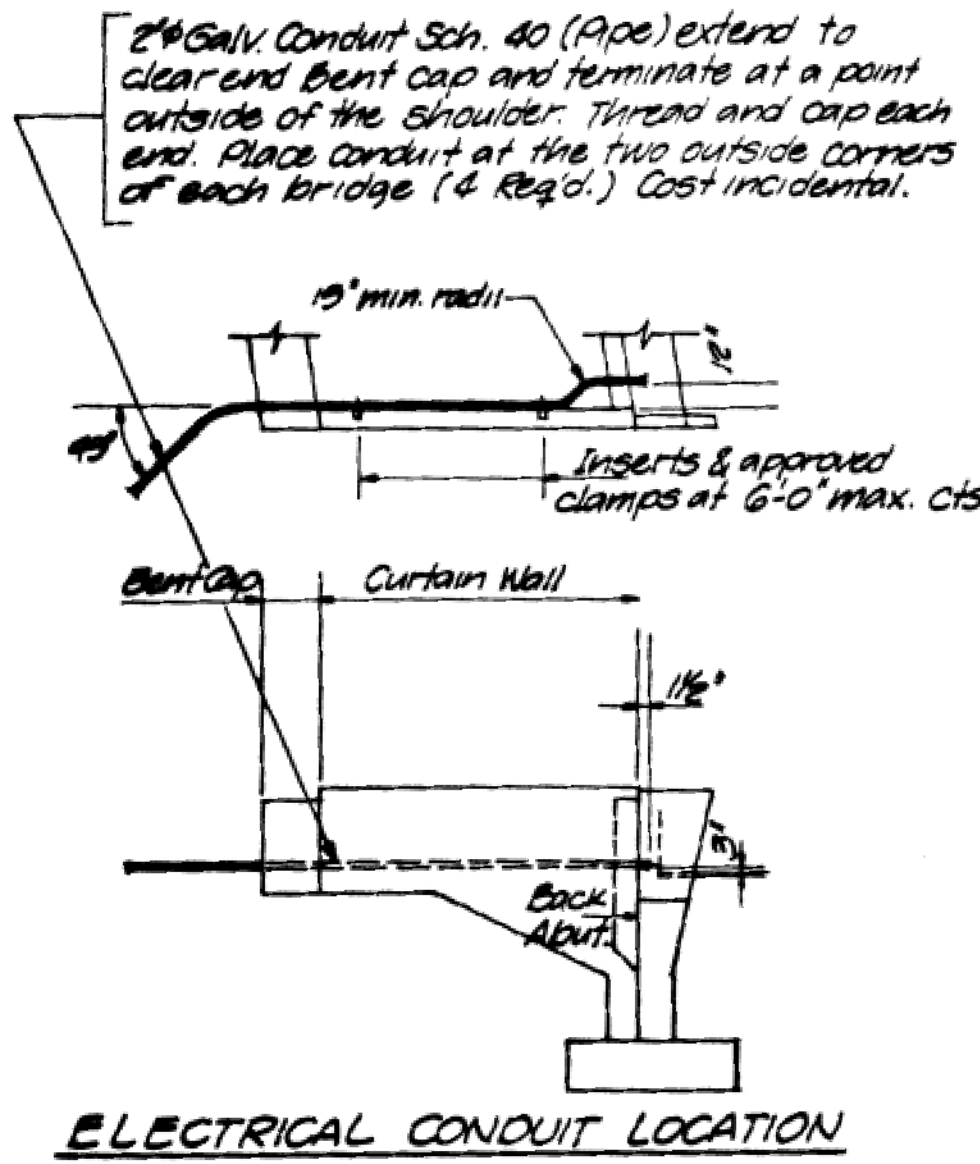
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS - FOR INFORMATION ONLY
SN 058-0069 (EB)

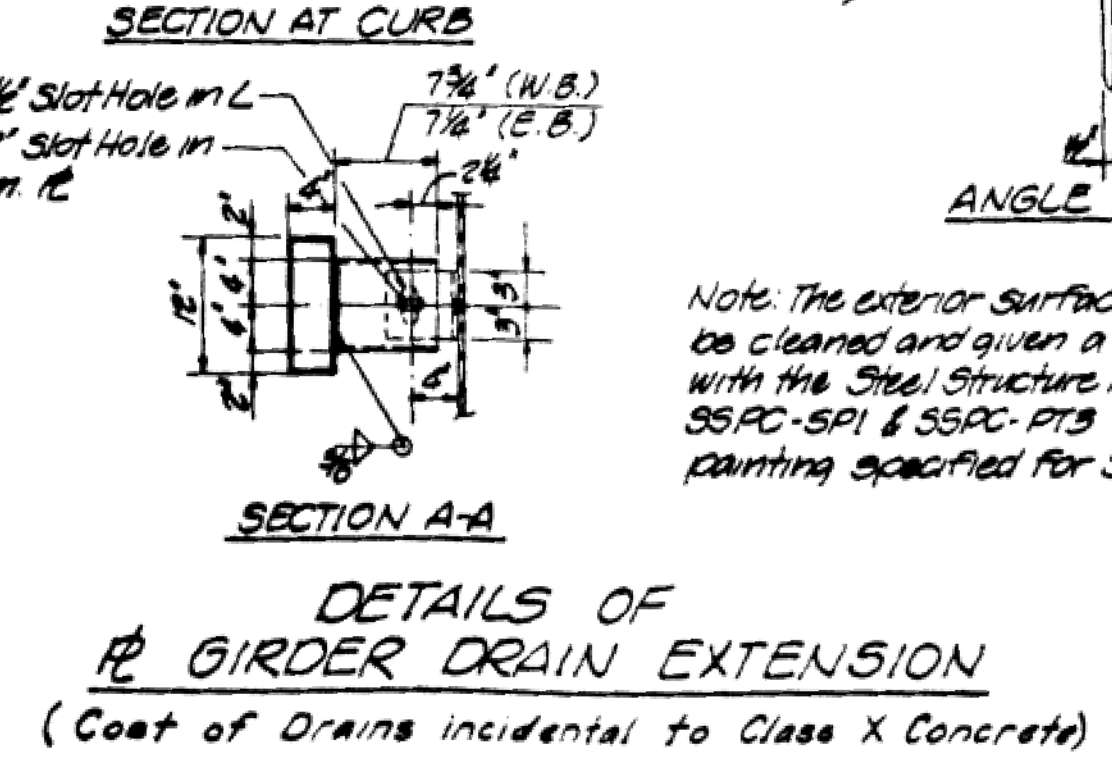
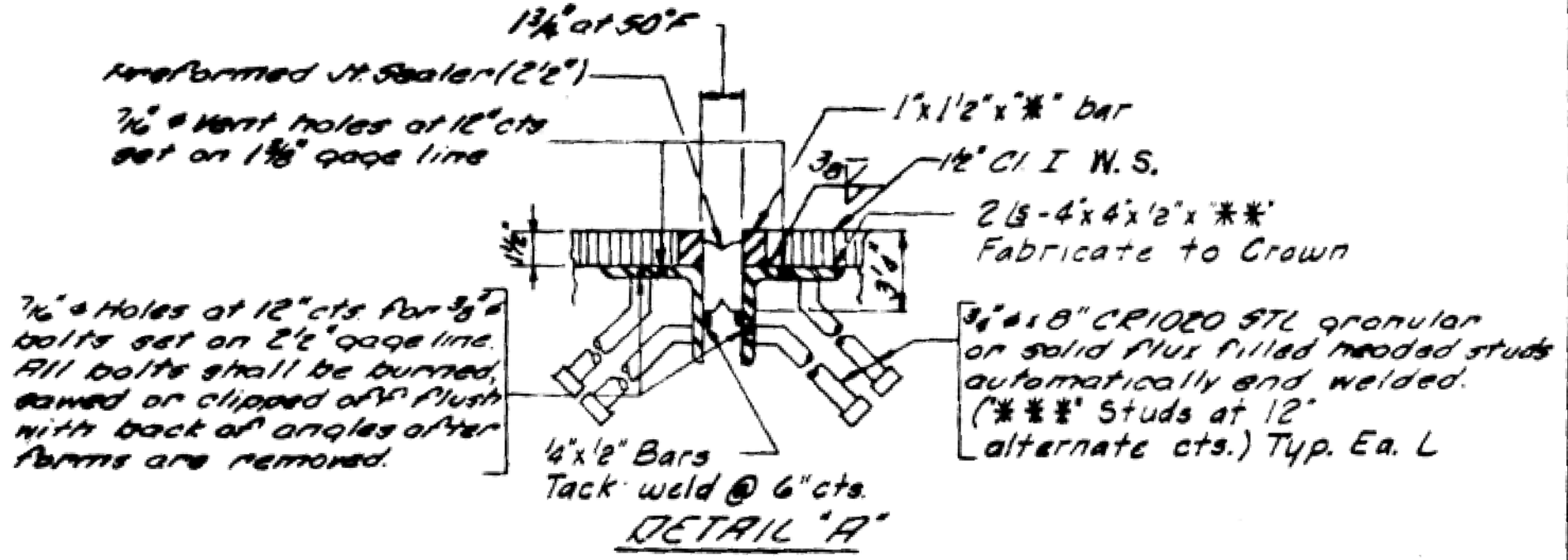
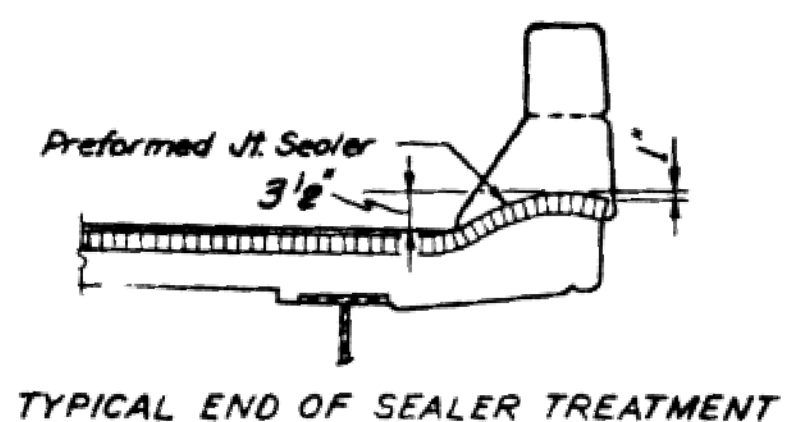
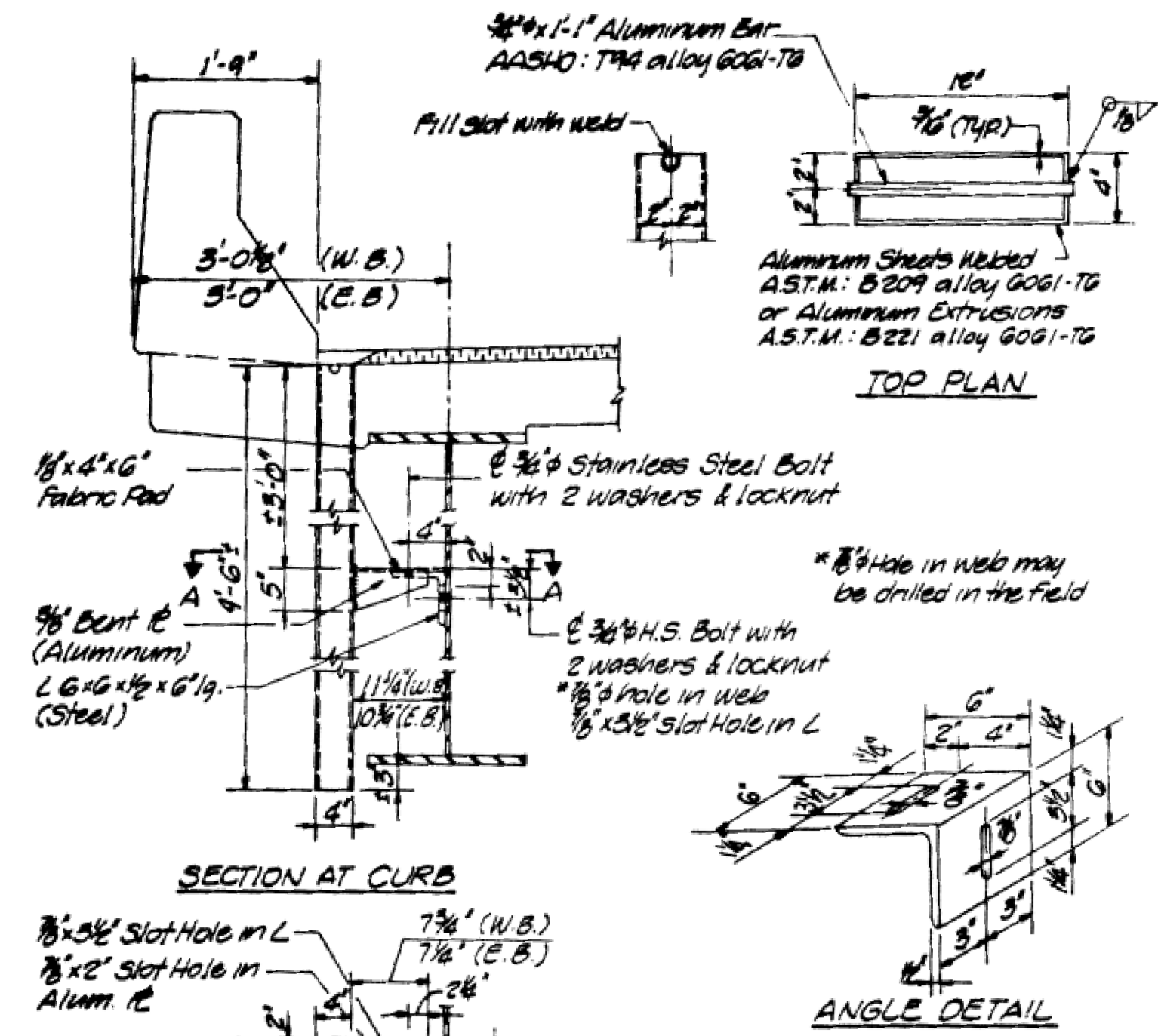
SHEET 29 OF 33 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	D7 BRIDGE REPAIRS 2026-3	MACON	108	68
CONTRACT NO. 74D08				
ILLINOIS FED. AID PROJECT				

USER NAME = nhc	DESIGNED - ELH 07/25	REVISED -
ESCA PROJECT NO. = 1445.01	CHECKED - RDP 07/25	REVISED -
PLOT SCALE = 0.2" = 1' / in.	DRAWN - NHC 07/25	REVISED -
PLOT DATE = 1/20/2026	CHECKED - ELH 07/25	REVISED -



Location	*	**	***
Abut. #1 E.B.	69'-4 1/2"	69'-4 1/2"	70
Abut. #2 E.B.	65'-10 1/8"	65'-10 1/8"	66
Abut. #1 W.B.	55'-1 1/8"	55'-1 1/8"	55
Abut. #2 W.B.	55'-1 1/8"	55'-1 1/8"	55



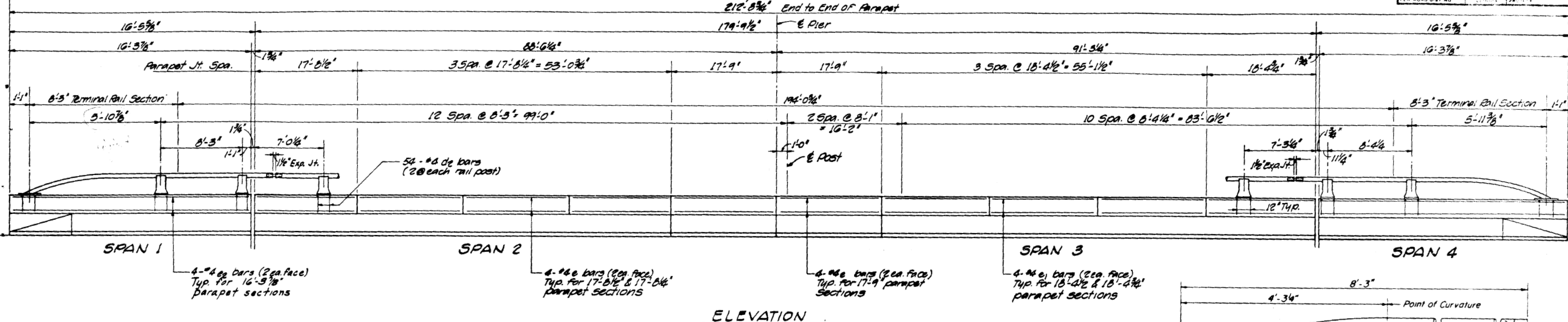
Note: For Waterproofing Membrane System see special provisions

REVISIONS			DETAILS	
No.	DATE	INITIALS	STATE OF ILLINOIS DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS FAI-72 OVER US 30 SEC. 58-62 WB-4 PROJ. STA 508+89.58 & 505+43.04 MACON CO.	
1			DRAWN BY DATE JCH 9-74	
2			CHECKED BY DATE GSH 2-75	
3			PROJECT NO. 2469-4	
4			SHEET NO. 12	
5			HOMER L. CHASTAIN & ASSOCIATES CONSULTING ENGINEERS DECATUR, ILLINOIS	

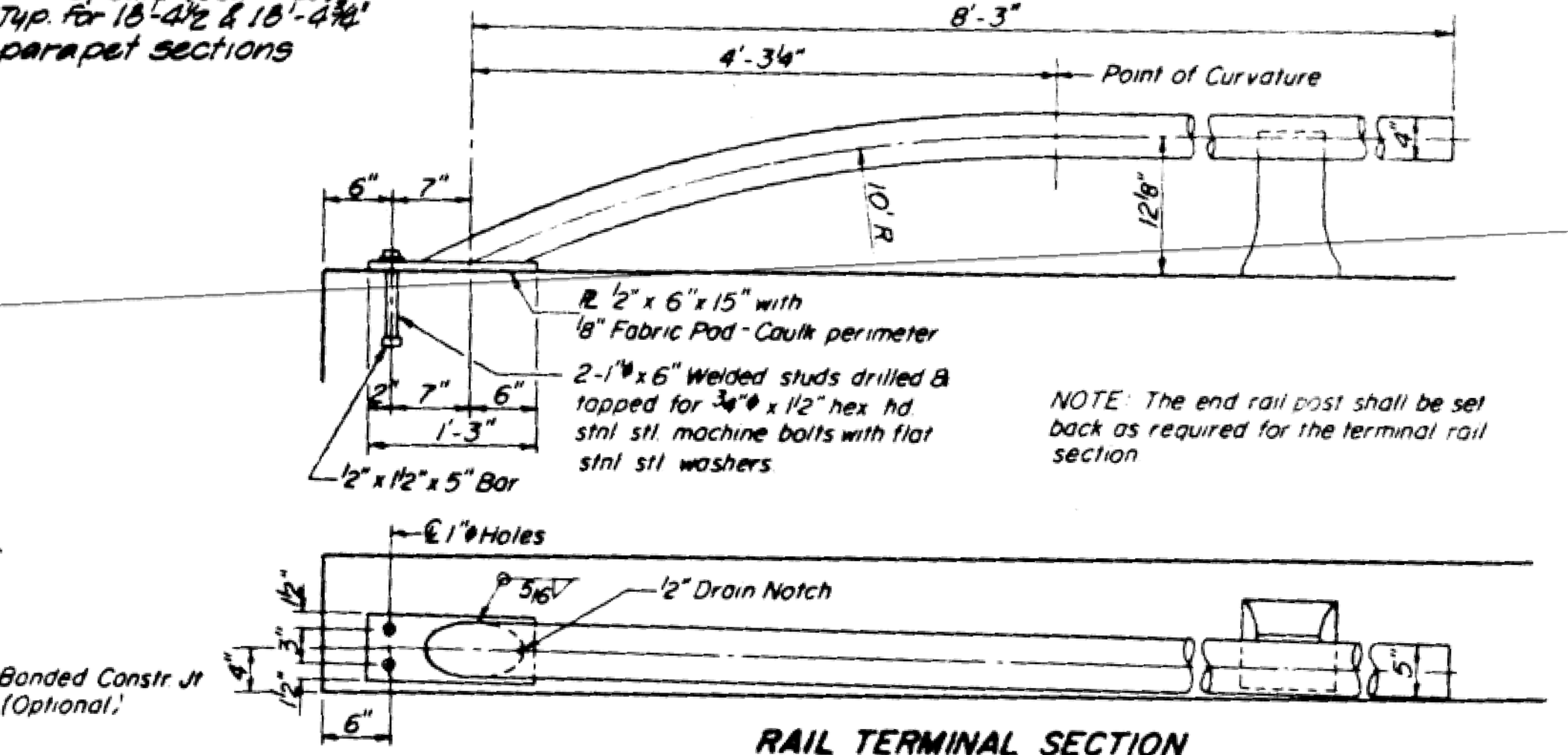
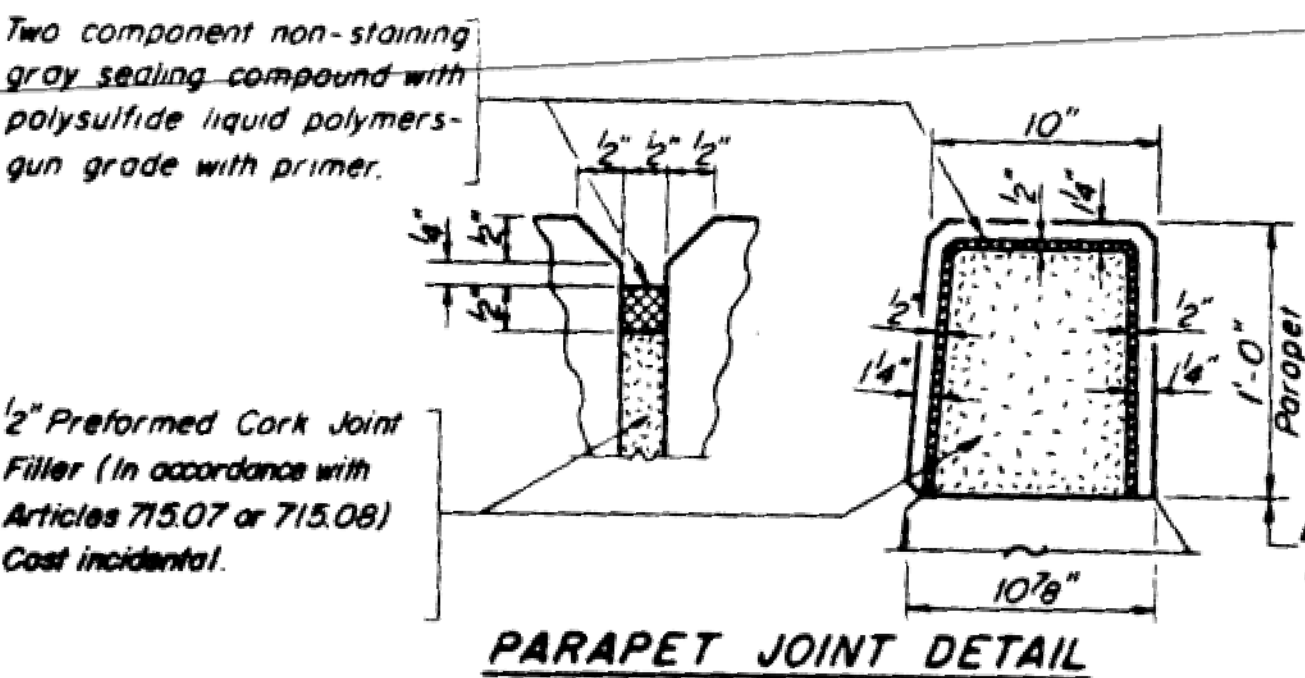
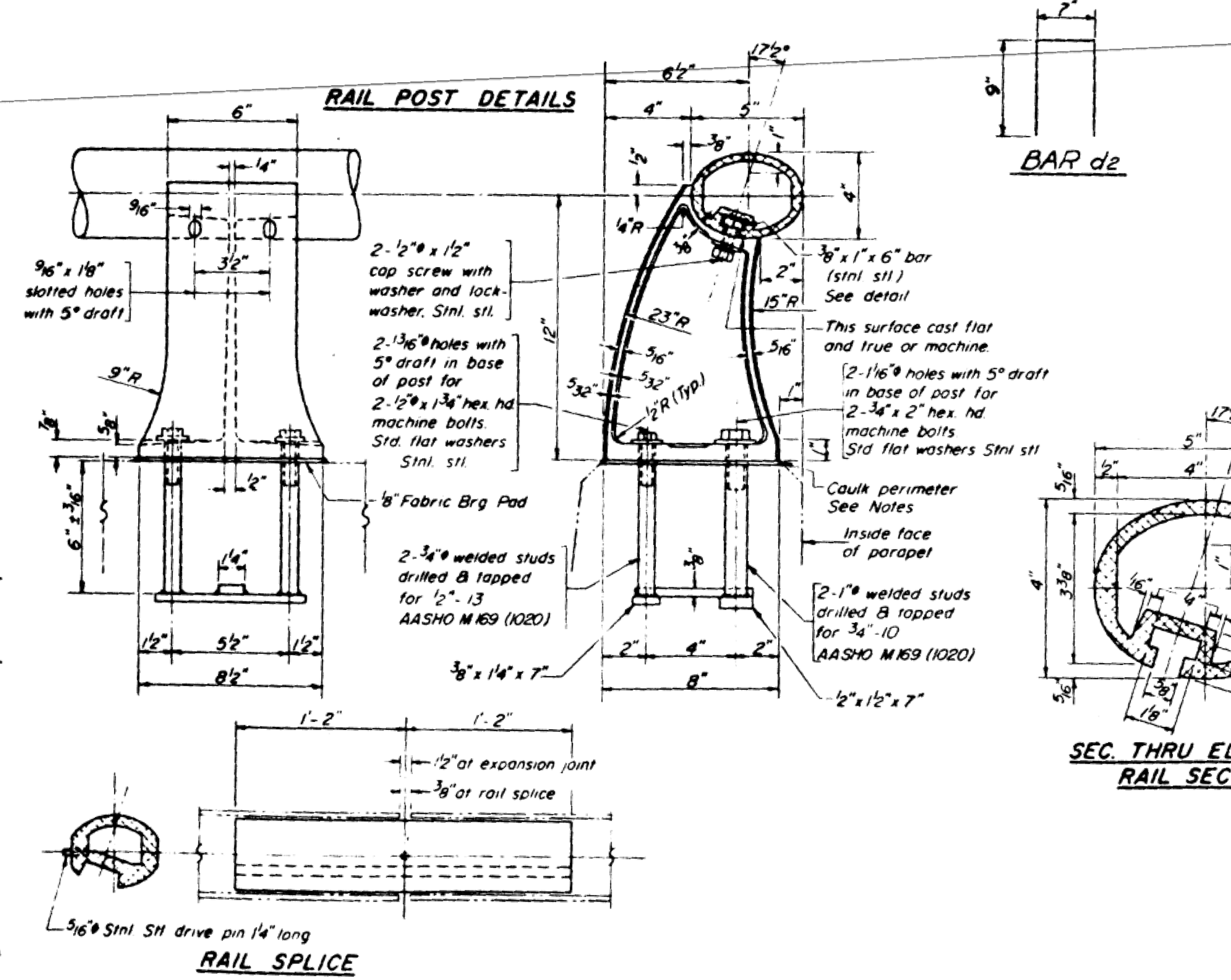
(Sheet 3 of 6)

MODEL: Sheet
FILE NAME: Y:\DOT\1445-01_74D08\74D08 DESIGN\CADD\SP SN 058-0068-0069\Common sheets\0580068-0774D08-30-ExpPlans.dgn

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI-72	58-62 WB & E	MACON	69	39
FED. ROAD DIST. NO.				



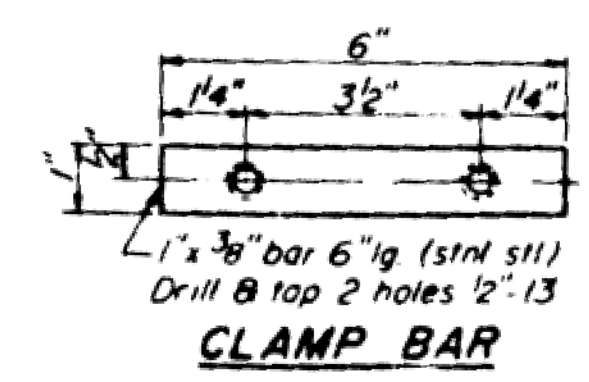
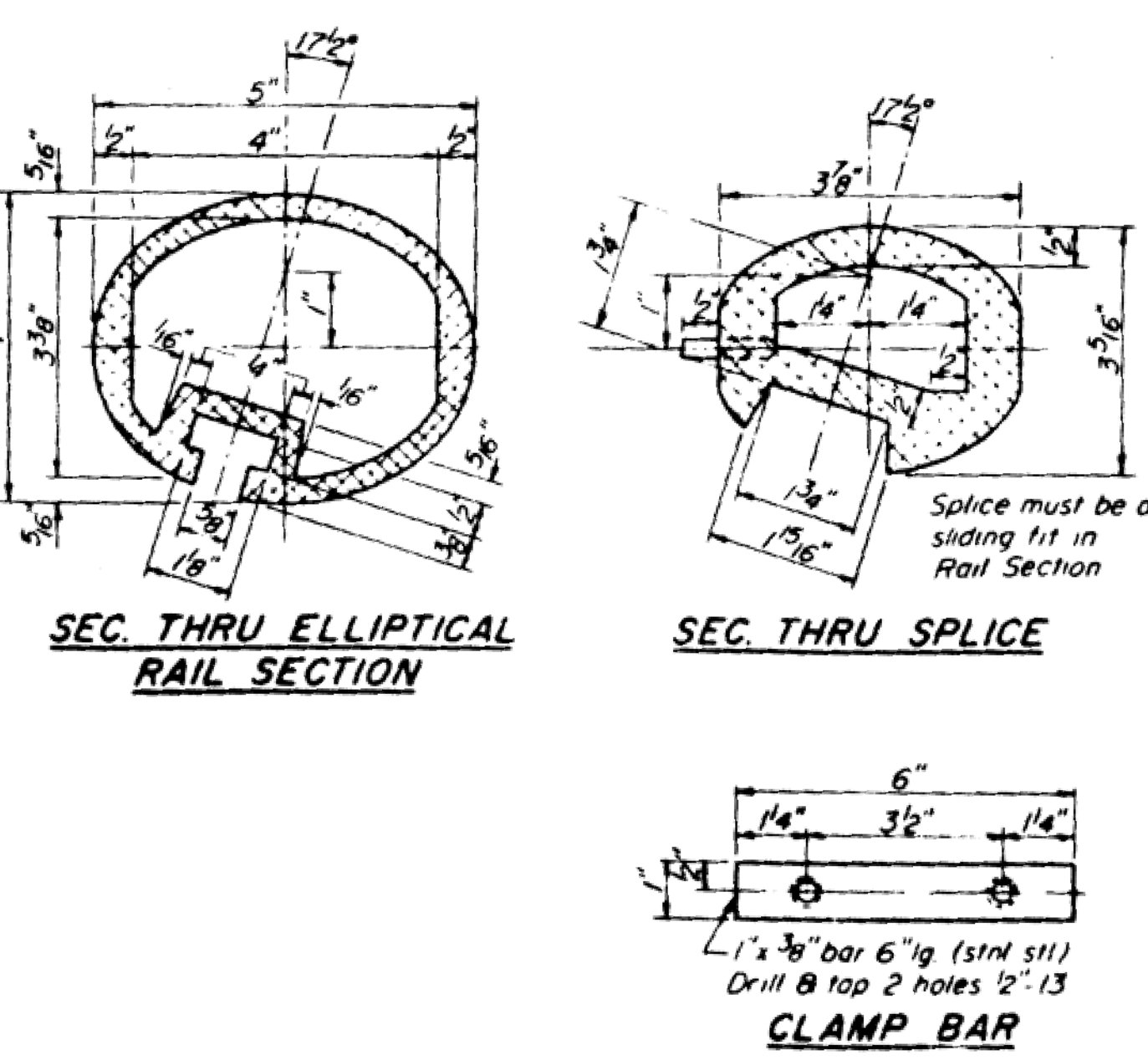
ELEVATION



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

NOTES:
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 - 6" and 2 - 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 B221 alloy 6061-T6 or 6351-T5 with min yield 35 ksi, min tensile 38 ksi, and elongation of 10% in 2 inches.
Stainless steel machine bolts or cap screws shall be in accordance with Article 710.37(a) of the Standard Specifications except Grade 88 or B8M may be furnished.

PARAPETS & RAILS BILL OF MATERIAL				
Bar	No.	Size	Length	Shape
CE	108	#2	2'-11"	□
E	48	#3	17'-0"	—
E ₁	32	#4	18'-2"	—
CE	16	#4	16'-0"	—
Reinforcement Bars			Lbs	1270
Class X Concrete			Cu Yds	13.7
Aluminum Railing			Lin Ft	421



ALUMINUM RAILING - W.B. LANES				
REVISIONS		STATE OF ILLINOIS DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS		
No.	DATE	DETAIL	BY	CHKD
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
FAI. 72 OVER U.S. 36 STA 503+69.55 TO 505+13.04 MAISON CO.		PROJECT NO. 246A-4		
HOMER L. CHASTAIN & ASSOCIATES CONSULTING ENGINEERS		SHEET NO. 39		

(Sheet 4 of 6)

MODEL: Sheet
FILE NAME: Y:\DOT\1445-01_74D08\74D08 DESIGN\CADD\SP SN 058-0068-0069\Common sheets\0580068-0774D08-31-ExPlans.dgn



USER NAME = nhc	DESIGNED - ELH 07/25	REVISED -
ESCA PROJECT NO. = 1445.01	CHECKED - RDP 07/25	REVISED -
PLOT SCALE = 0.2" = 1' / in.	DRAWN - NHC 07/25	REVISED -
PLOT DATE = 1/20/2026	CHECKED - ELH 07/25	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

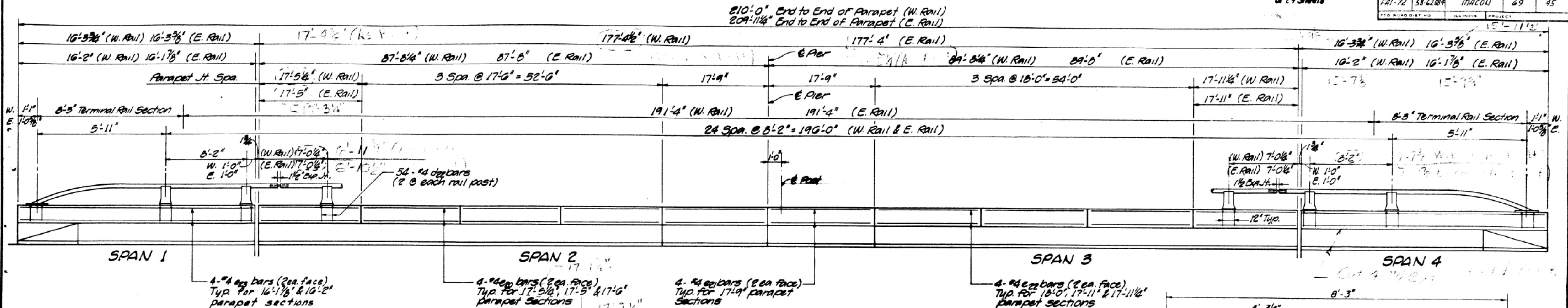
EXISTING BRIDGE PLANS - FOR INFORMATION ONLY
SN 058-0068 (WB) & SN 058-0069 (EB)

SHEET 31 OF 33 SHEETS

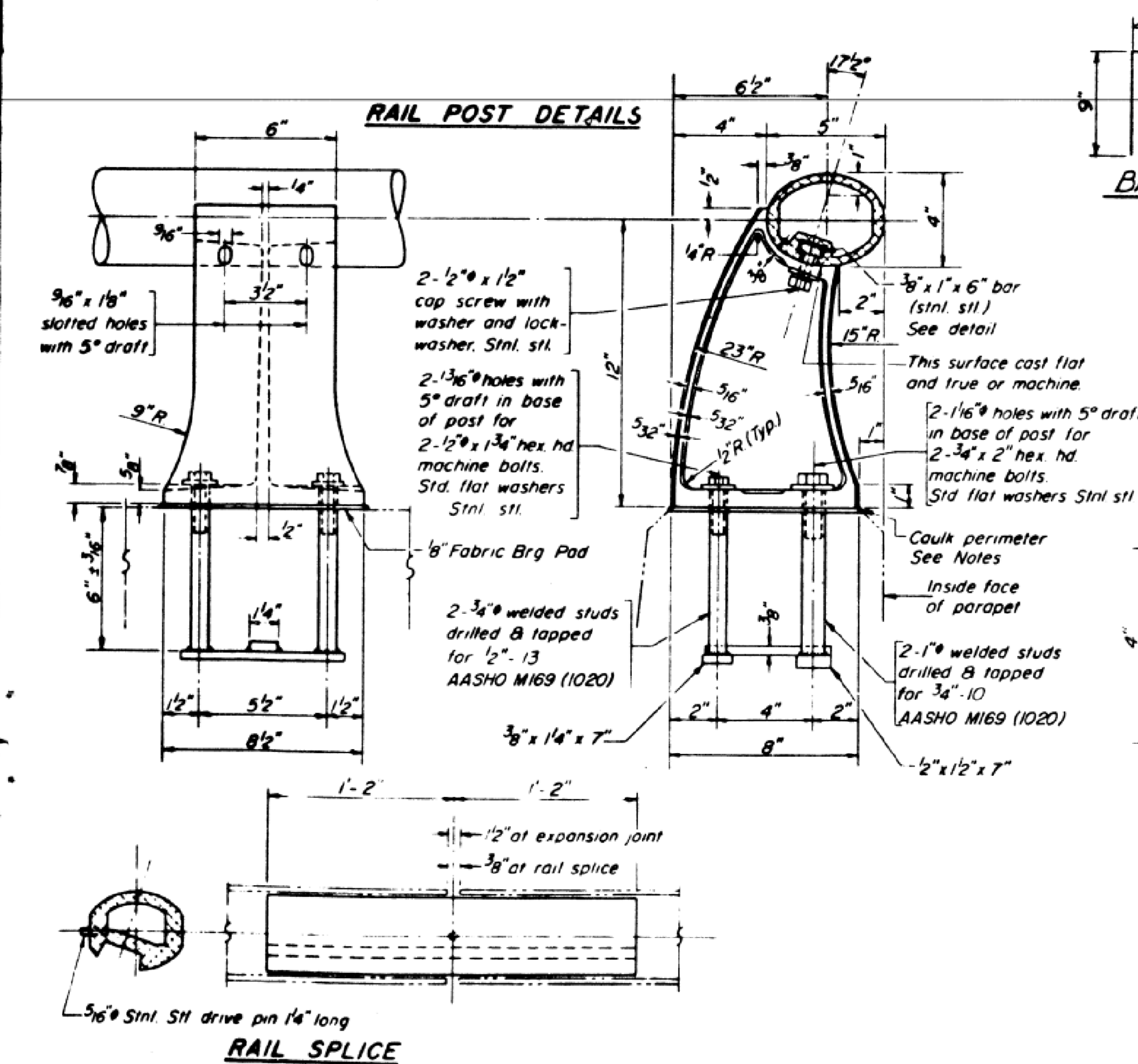
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	D7 BRIDGE REPAIRS 2026-3	MACON	108	70
ILLINOIS FED. AID PROJECT				

CONTRACT NO. 74D08

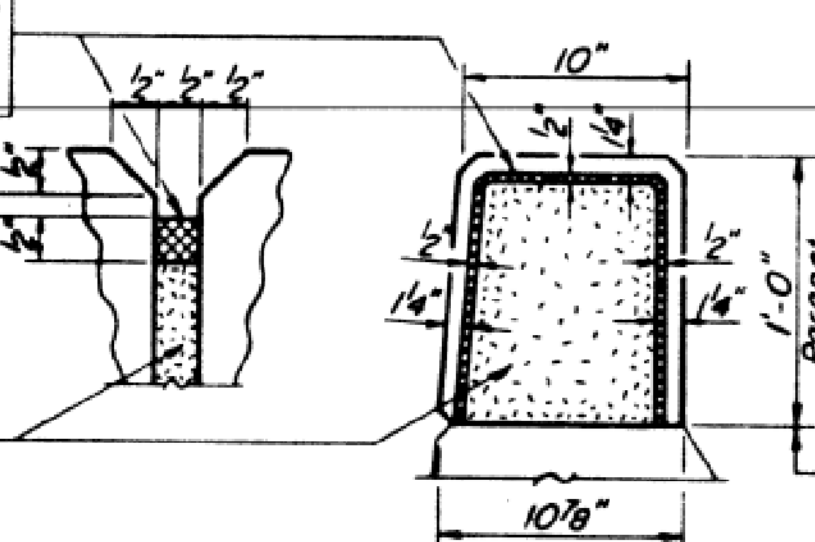
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI-72	SB-6289	MACON	69	45
PROJECT NO.	ILLINOIS PROJECT			



ELEVATION

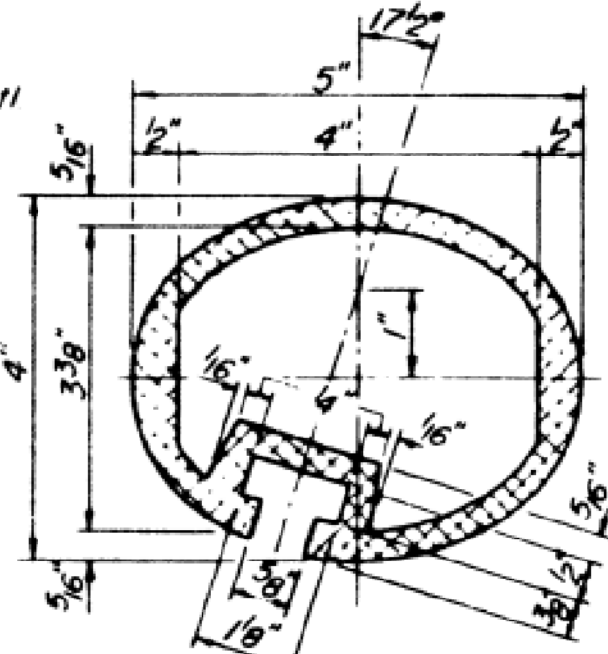


Two component non-staining gray sealing compound with polysulfide liquid polymers - gun grade with primer.

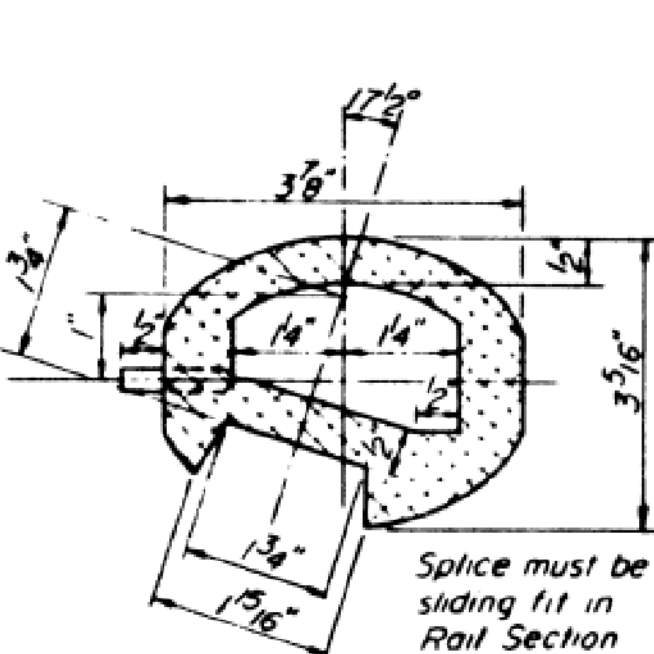


PARAPET JOINT DETAIL

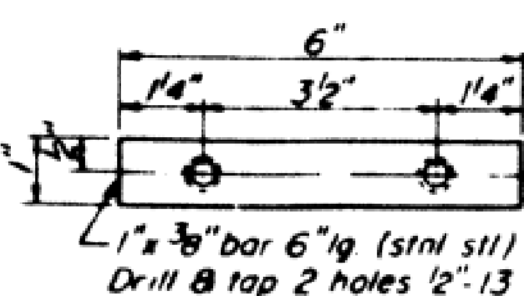
1/2\" Preformed Cork Joint Filler (In accordance with Articles 715.07 or 715.08) Coat incidental.



SEC. THRU ELLIPTICAL RAIL SECTION

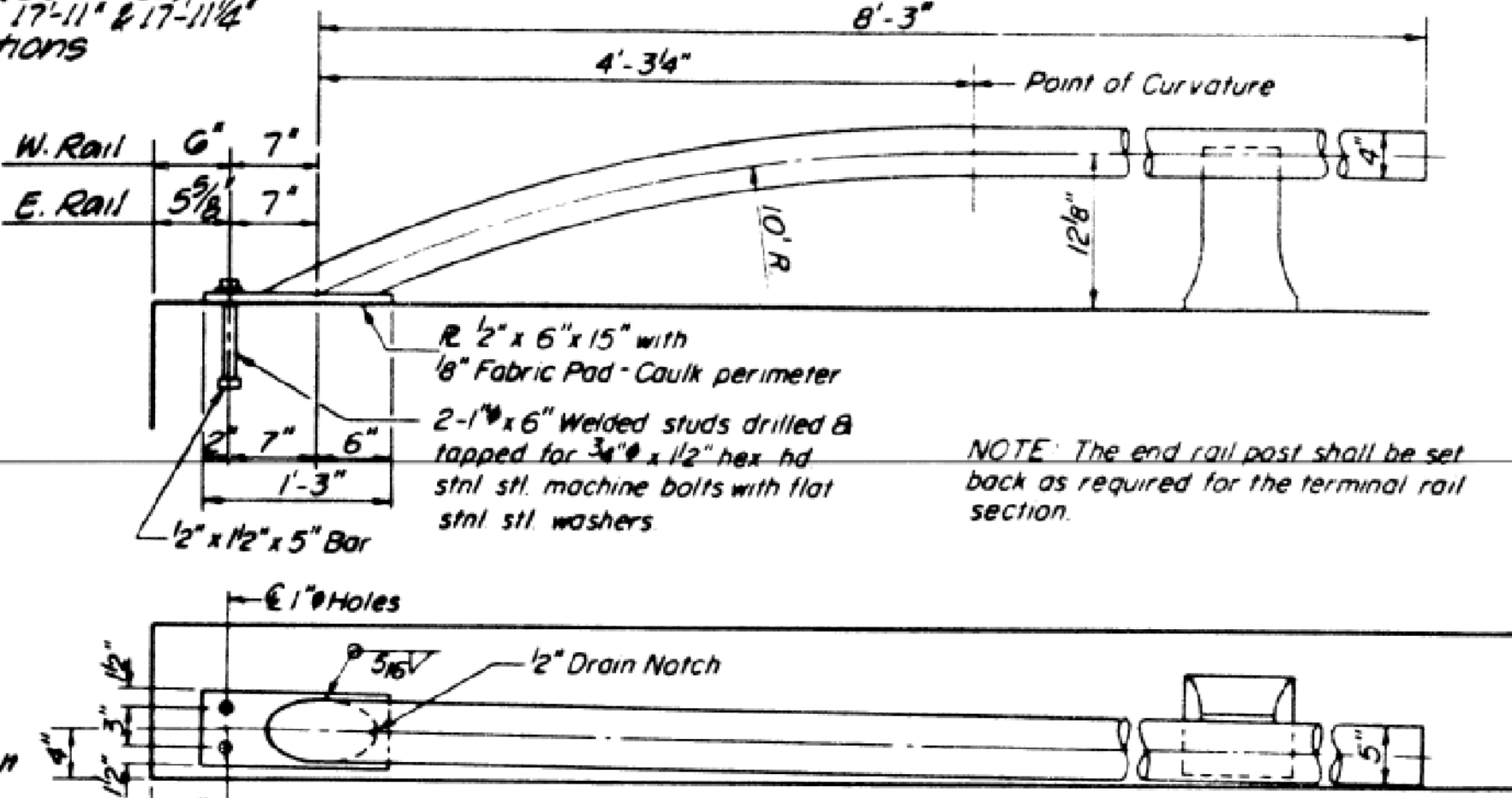


SEC. THRU SPLICE



CLAMP BAR

NOTES:
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 - 8\" and 2 - 1/8\" 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 B221 alloy 6061-T6 or 6351-T5 with min yield 35 ksi, min tensile 38 ksi, and elongation of 10% in 2 inches.



RAIL TERMINAL SECTION

PARAPETS & RAILS
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
022	108	#4	241'	□
020	32	#4	17'-2"	
021	16	#4	17'-5"	
022	32	#4	17'-5"	
023	16	#4	15'-9"	
Reinforcement Bars			Lbs	1250
Class X Concrete			Cu Yds	13.5
Aluminum Railing			L in Ft	416

ALUMINUM RAILING - E. B. LANES

REVISIONS	DATE	INITIALS	DESCRIPTION
1	7/14/24	JCH	5-74
2	8/5/25	BSH	8-75
3			
4			
5			
6			
7			
8			
9			
10			

STATE OF ILLINOIS
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
FAI-72 OVER US 36
SEC 58-68 HB-4 PRV.
STA 508+84.58 & 305+43.04 MACON CO.

HOMER L. CHASTAIN & ASSOCIATES
CONSULTING ENGINEERS
DECATUR, ILLINOIS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS - FOR INFORMATION ONLY
SN 058-0068 (WB) & SN 058-0069 (EB)

FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	D7 BRIDGE REPAIRS 2026-3	MACON	108	71
ILLINOIS				FED. AID PROJECT



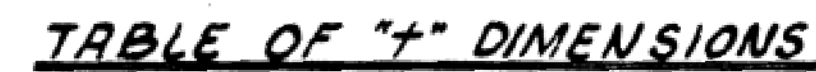
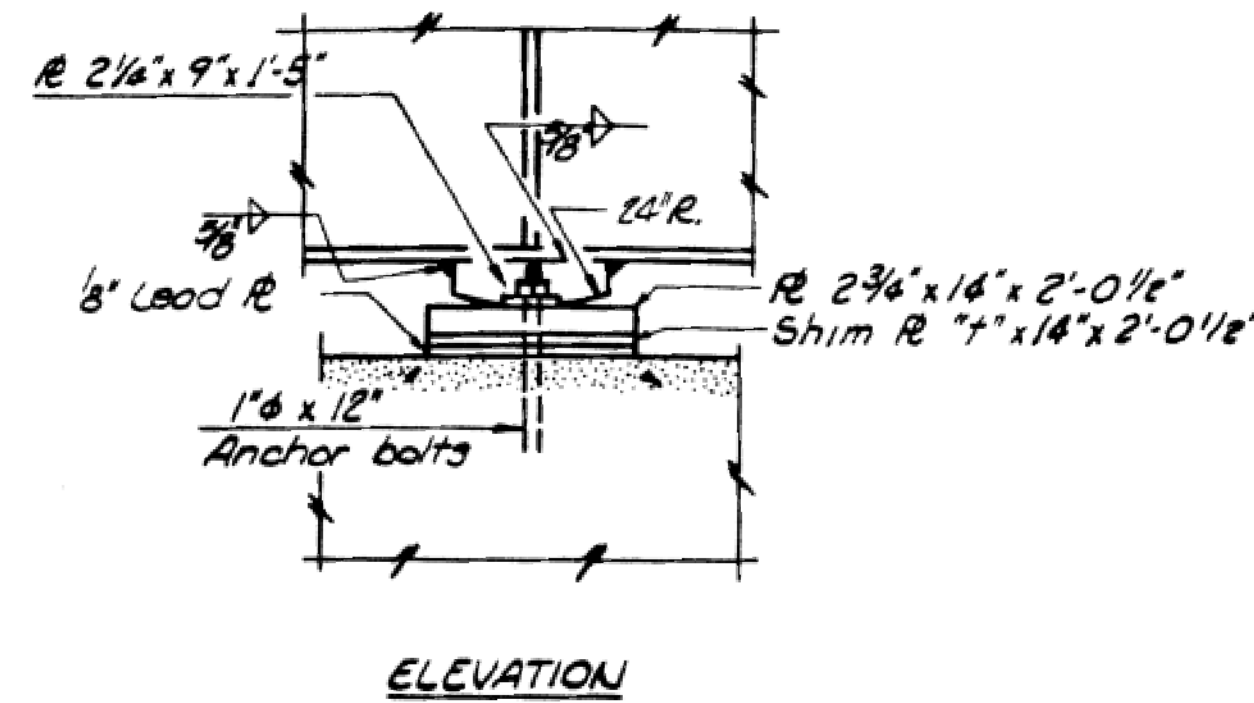
USER NAME = nhc	DESIGNED - ELH	07/25	REVISED -
ESCA PROJECT NO. = 1445.01	CHECKED - RDP	07/25	REVISED -
PLOT SCALE = 0.2 '"/in.	DRAWN - NHC	07/25	REVISED -
PLOT DATE = 1/20/2026	CHECKED - ELH	07/25	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

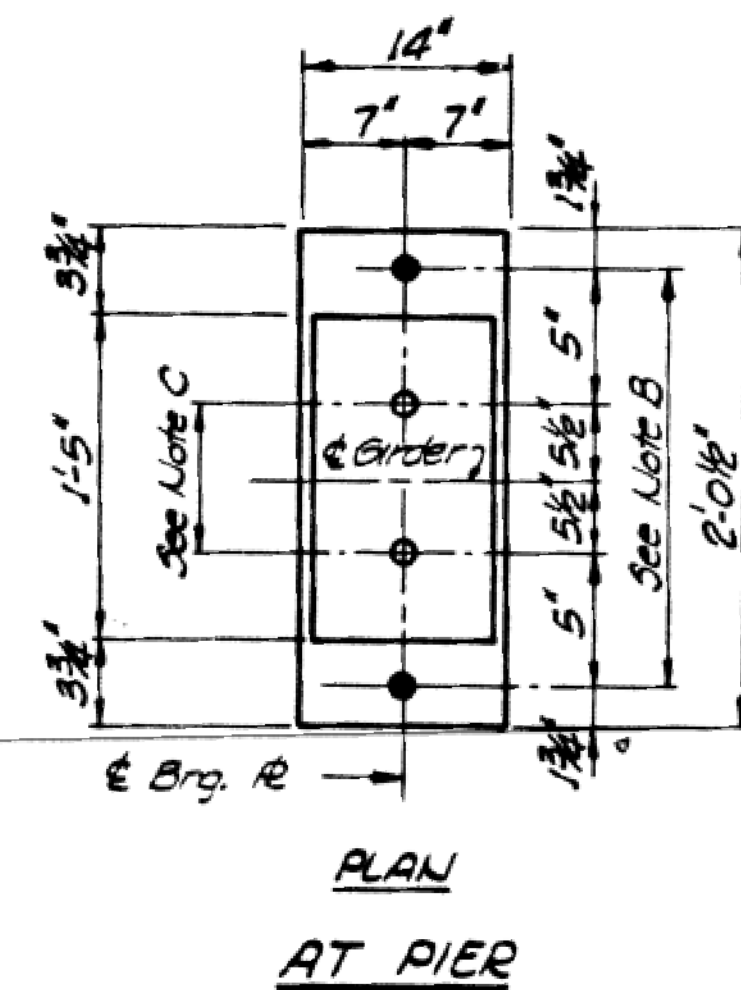
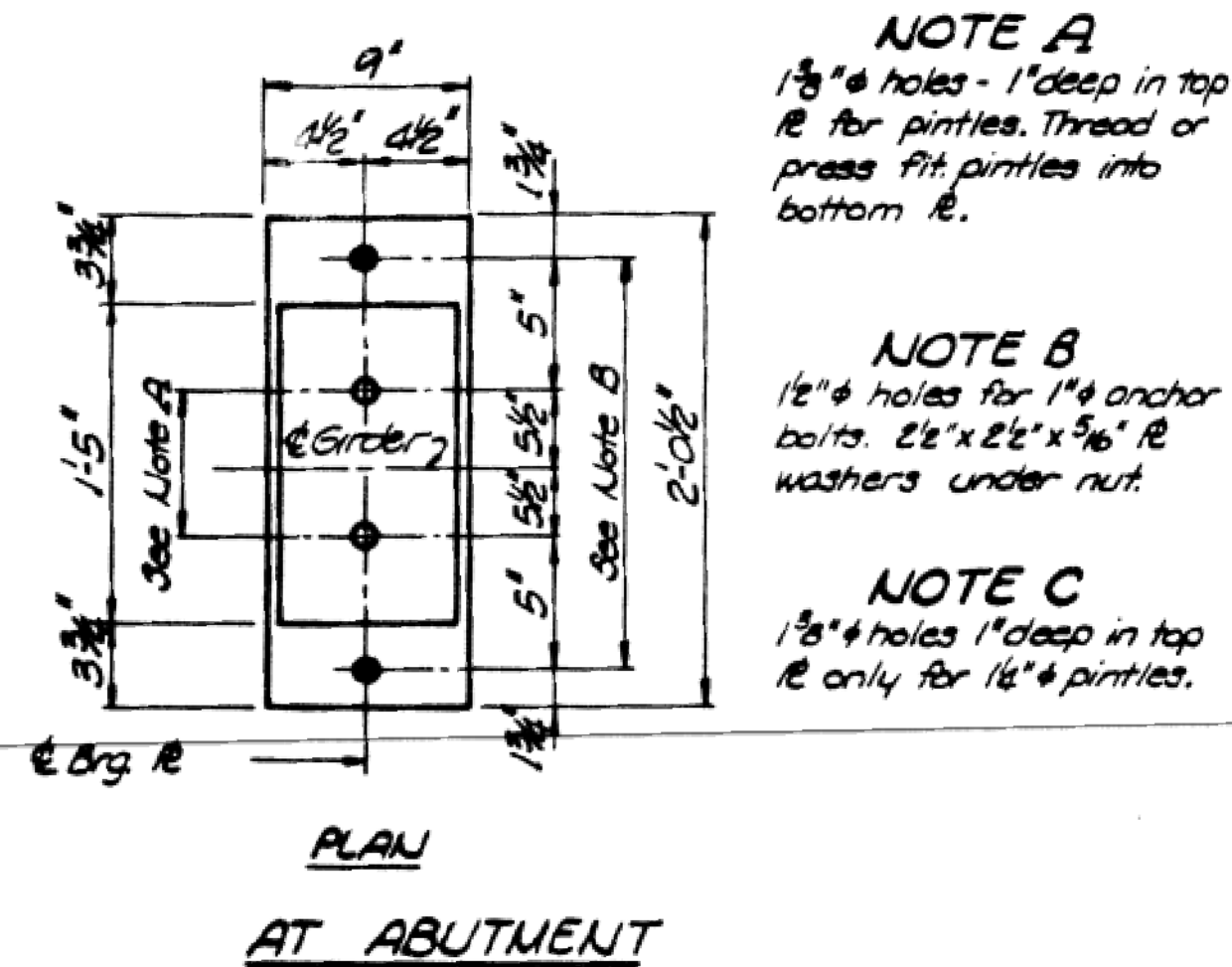
(Sheet 5 of 6)

SHEET 32 OF 33 SHEETS

MODEL: Sheet
FILE NAME: Y:\DOT11445-01_74D08\74D08 DESIGN\CAADD\SP SN 058-0068-0069\Common sheets\0580068-0774D08-32-ExPlans.dgn
1/20/2026 10:00:57 AM



	W. Bnd Lanes								E. Bnd Lanes									
Location	G-1	G-2	G-3	G-4	G-5	G-6	G-7	G-8	G-9	G-10	G-11	G-12	G-13	G-14	G-15	G-16	G-17	G-18
Abut. #1	0"	0"	0"	0"	1 1/16"	0"	0"	0"	0"	0"	0"	1/2"	0"	0"	0"	0"	0"	0"
Pier	0"	0"	0"	0"	1 1/16"	0"	0"	0"	0"	0"	0"	1/8"	0"	0"	0"	0"	0"	0"
Abut. #2	0"	0"	0"	0"	1 1/16"	0"	0"	0"	0"	0"	0"	1/8"	0"	0"	0"	0"	0"	0"



MOMENT TABLE - Composite 2 Span
(Composite in Positive Moment Areas Only)

INTERIOR GIRDER MOMENT TABLE		
	C.G. 302	Pier
I _g (in ⁴)	13,842	34,828
I _c (in ⁴)	39,084.0	
I _g	886	1,865
I _c (in ³)	1,158.7	
Q (K _i)	.997	.997
M _Q (K)	479	1,297
F ₃ Q (K ₃)	63	9.9
J ₃ Q (K ₃)	.999	.999
K ₃ Q (K)	236	391
M ₃ (K)	742	629
M _{imp} (K)	175	147
TOTAL (K)	1,153	1,167
F ₃ 4 + S ₃ (K ₃)	11.9	9.0
I ₃ TOTAL (K ₃)	18.7	18.9
VR (K)		57.6

D** (Side of brg toward fixed brg.)
D** = 1/8" per each 100' of expansion for every
15° above the normal temperature of
50° F.

b) After beams have been erected and dimensions D^* or D^{**} determined, holes shall be drilled and anchor bolts shall be grouted in place. All fixed anchor bolts may be built into the masonry.

REACTION TABLE

INTERIOR GIRDER REACTION TABLE		
	N. ADJUT.	P.E.R
RD (K)	44.5	162.2
RE (K)	42.4	65.5
Imp. (K)	9.9	15.3
R TOTAL (K)	96.8	243.0

I_3 and S_3 are the moment of inertia and section modulus of the steel section.
 I_c and S_c are the moment of inertia and section modulus of the composite section used in computing Δ .
 V_R is the maximum $\pm$ impact shear range.
 Above data is for Westbound structure.
 Eastbound structure data slightly less.

BEARING SEAT ADJUSTMENT

Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of $\pm 1/8"$. Adjustment shall be made either by grinding the surface or by shimming the bearing. Two $1/8"$ adjusting shims, of the dimensions of the bottom bearing plate, shall be provided for each bearing in addition to all other plates or shims.

BEARING DETAILS W.B. & E.B. LANES																										
STATE OF ILLINOIS DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS F.A.I. 72 OVER U.S. 36 F.A.I. 72 SEC. 50-62 HB-4 PROJ. STA. 508+49.50 - 530+54.00 MACON CO.		DRAWN BY: DATE JCN 7-74 CHECKED BY: DATE GSB 2-75 BOOK NUMBER PROJECT NO 2669-4 SHEET NO 37																								
HOMER L CHASTAIN & ASSOCIATES CONSULTING ENGINEERS DECATUR, ILLINOIS																										
<table><tr><td colspan="2">REVISIONS</td></tr><tr><td>NO.</td><td>DATE</td></tr><tr><td>1</td><td></td></tr><tr><td>2</td><td></td></tr><tr><td>3</td><td></td></tr><tr><td>4</td><td></td></tr><tr><td>5</td><td></td></tr><tr><td>6</td><td></td></tr><tr><td>7</td><td></td></tr><tr><td>8</td><td></td></tr><tr><td>9</td><td></td></tr><tr><td>10</td><td></td></tr></table>			REVISIONS		NO.	DATE	1		2		3		4		5		6		7		8		9		10	
REVISIONS																										
NO.	DATE																									
1																										
2																										
3																										
4																										
5																										
6																										
7																										
8																										
9																										
10																										

EXISTING STRUCTURE:

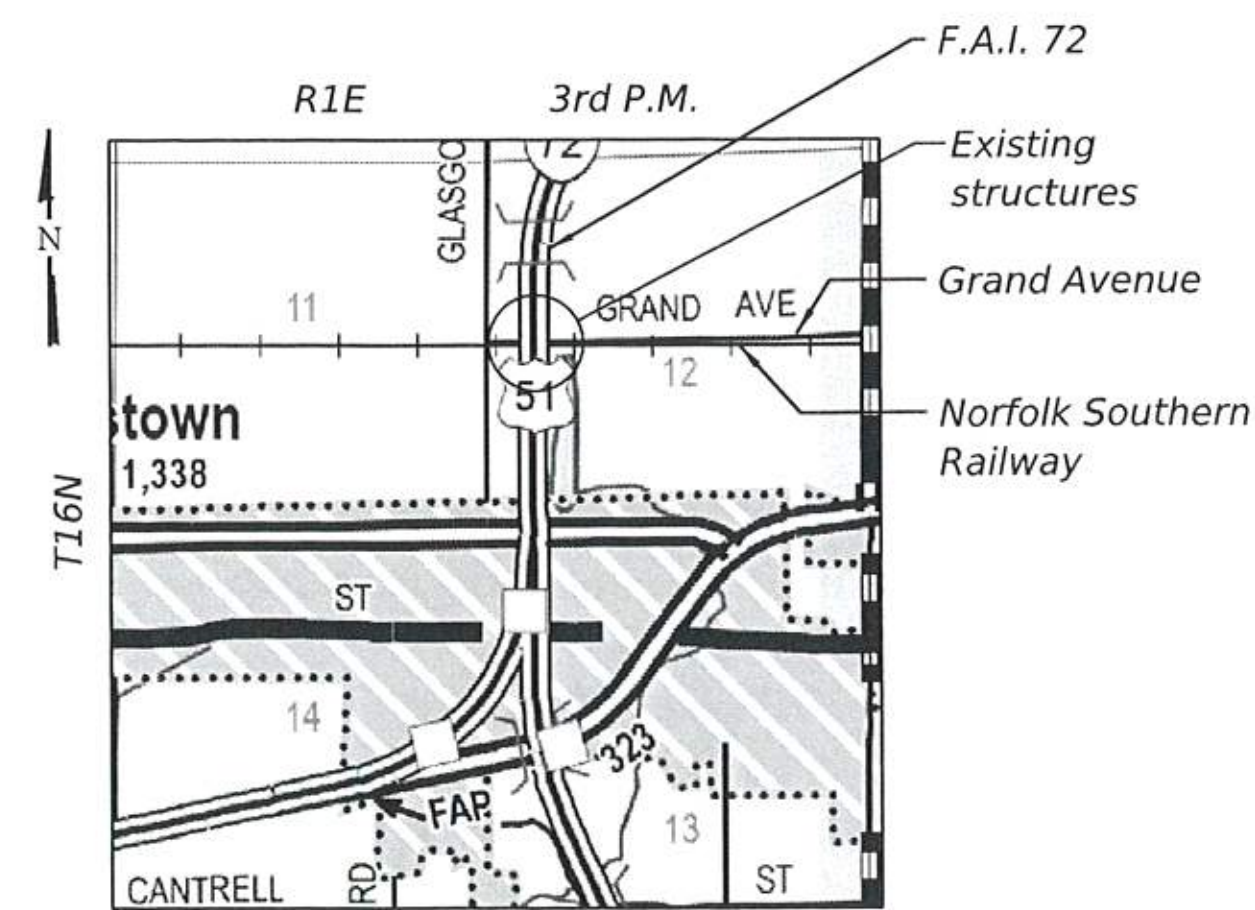
The existing four-span structures were constructed in 1976 as F.A.I. 72 Section 58-62HVB at Station 534+69.66. SN 058-0070 carries I-72 Westbound over Grand Avenue and Norfolk Southern Railway. SN 058-0071 carries I-72 Eastbound over Grand Avenue and Norfolk Southern Railway. In 2006, deck patching was performed and the bituminous wearing surfaces were replaced with microsilica concrete overlays. After that, the expansion joints were replaced at SN 058-0070. The end spans are reinforced concrete slabs, and the main spans are steel welded plate girders. The concrete vaulted abutments and pile bents are supported on concrete piles, and the piers are also supported on concrete piles. Both structures are 211'-0" back-to-back of bent caps, are tapered, and are not skewed. SN 058-0070 is tapered from 51'-10½" to 47'-8¾" out-to-out. SN 058-0071 is tapered from 49'-1¾" to 44'-11" out-to-out.

The proposed project consists of bridge deck repairs, new concrete overlays, new bearings at the abutments, substructure repairs, and slope wall repairs. Traffic on I-72 is to be maintained utilizing stage construction. Grand Avenue is to be closed during construction. Norfolk Southern Railway traffic is to be maintained during construction.

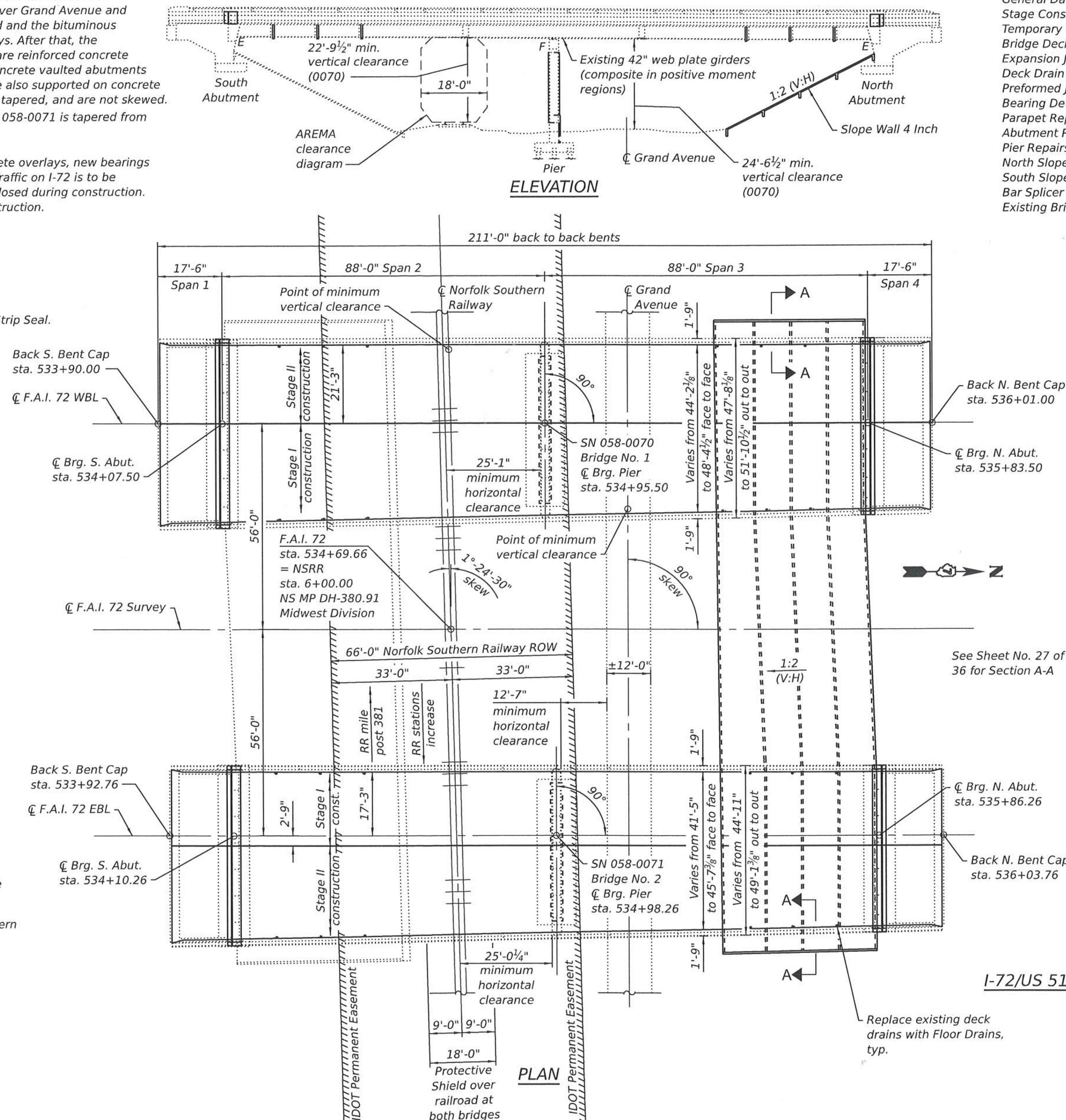
SCOPE OF WORK

1. Replace bearings at abutments.
2. Replace expansion joints at abutments with Preformed Joint Strip Seal.
3. Perform Bridge Deck Scarification 2¼".
4. Perform Deck Slab Repair.
5. Replace existing deck drains with 6" diameter Floor Drains.
6. Construct new 2½" concrete overlays.
7. Perform Diamond Grinding (Bridge Section).
8. Perform Bridge Deck Grooving (Longitudinal).
9. Apply Protective Coat.
10. Construct parapet and substructure repairs.
11. Raise crashwall elevation at piers.
12. Repair South Slope Wall.
13. Replace North Slope Wall.

Note: At least a portion of all items shown in the above scope of work are to be performed on or adjacent to railroad right-of-way with the exception of replacing the North Slope Wall and work at the abutment bearings and expansion joints.



LOCATION SKETCH



STRUCTURE INDEX OF SHEETS

General Plan & Elevation	Sheet No. 1 of 36
General Data	Sheet No. 2 of 36
Stage Construction	Sheet No. 3-4 of 36
Temporary Concrete Barrier	Sheet No. 5 of 36
Bridge Deck Patching	Sheet No. 6-7 of 36
Expansion Joint Replacement Details	Sheet No. 8-13 of 36
Deck Drain Details	Sheet No. 14 of 36
Preformed Joint Strip Seal	Sheet No. 15 of 36
Bearing Details	Sheet No. 16-17 of 36
Parapet Repairs	Sheet No. 18-21 of 36
Abutment Repairs	Sheet No. 22-23 of 36
Pier Repairs	Sheet No. 24-26 of 36
North Slope Wall	Sheet No. 27 of 36
South Slope Wall Repairs	Sheet No. 28 of 36
Bar Splicer Assembly and Mechanical Splicer Details	Sheet No. 29 of 36
Existing Bridge Plans	Sheet No. 30-36 of 36

DESIGN SPECIFICATIONS (new const.)

2002 AASHTO Standard Specifications
for Highway Bridges, 17th Edition

LOADING HS20-44 & ALTERNATE (new const.)

No allowance for future wearing surface

DESIGN STRESSES

FIELD UNITS
EXISTING CONSTRUCTION
fc = 1,400 psi (substructure, curbs, parapets, & approach slabs)
fc = 1,200 psi (superstructure slab)
fs = 20,000 psi (reinforcement)
NEW CONSTRUCTION
fc = 4,000 psi (concrete)
fy = 60,000 psi (reinforcement)
fy = 36,000 psi (structural steel)



EXPIRES 11-30-26

SIGNATURE

09-01-26
DATE

GENERAL PLAN & ELEVATION

I-72/US 51 OVER GRAND AVE. AND NORFOLK SOUTHERN RR

F.A.I. ROUTE 72

SECTION D7 BRIDGE REPAIRS 2026-3

MACON COUNTY

STATION 534+69.66

STRUCTURE NO. 058-0070/0071

MODEL: Sheet
FILE NAME: Y:\DOT\1445-01_74D08\74D08 DES\GNACADD\SP SN 058-0070-0071\Common Sheets\0580070-D774D08-01-GPE.dgn
9/2/2026 2:25:09 PM



USER NAME = nhc	DESIGNED - ELH 08/25	REVISED -
ESCA PROJECT NO. = 1445.01	CHECKED - RDP 08/25	REVISED -
PLOT SCALE = 0.2" = 1'	DRAWN - NHC 09/26	REVISED -
PLOT DATE = 9/2/2026	CHECKED - ELH 09/26	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET 1 OF 36 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	D7 BRIDGE REPAIRS 2026-3	MACON	108	73
CONTRACT NO. 74D08				
ILLINOIS FED. AID PROJECT				

GENERAL NOTES

1. Reinforcement bars designated (E) shall be epoxy coated.
2. Plan dimensions and details relative to the existing structures have been taken from existing plans and are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of work; however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
3. Existing reinforcement bars extending into the removal area shall be cleaned, straightened, and incorporated into the new construction. Cost included in Concrete Removal. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system at the Contractor's expense.
4. Areas of deck repairs shown are estimated. The Engineer shall show actual locations and size of deck repairs on As-Built Plans.
5. The existing structural steel coating contains lead. The existing bearings contain lead plates. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.
6. No field welding is permitted except as specified in the contract documents.
7. Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose detrimental foreign material shall be removed from the surfaces in contact with concrete (SSPC-SP3 standards). Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be included in Concrete Removal.
8. The cost of floor drains to be removed is included in Deck Slab Repair.
9. All new structural steel extensions, bearing assemblies, and shim plates shall be hot dip galvanized. See special provision for "Hot Dip Galvanizing for Structural Steel."
10. Joint openings shall be adjusted according to Article 520.04 of the Std. Specs. when the deck is poured at an ambient temperature other than 50° F.
11. Removal and reinstallation of the handrail sections and support posts at both abutments will be necessary for construction of the expansion joints. The existing handrail sections and support posts shall be reused. New bolts, shim plates, and post support anchor assemblies, as detailed in the existing plans, are to be provided and installed for the replacement of the handrail sections. This work and all materials shall be included in the contract unit price for Concrete Superstructure.
12. Full depth deck slab repairs performed in the exterior bays of the bridge deck (between the parapet walls and the first interior beams) shall be limited to individual lengths no greater than 10'. In these portions of the deck, repair areas longer than 10' shall be divided into segments not greater than 10' in length, and the segments shall be poured in alternating sequence. Subsequent segments repaired in sequence shall not be removed until 72 hours have elapsed from the end of the previous, adjacent pour, and the adjacent pour shall have attained a minimum modulus of rupture of 650 psi.
13. Protective Coat shall be applied to areas of Concrete Superstructure consisting of the front faces and tops of the parapets and the expansion joint concrete. Protective Coat shall also be applied to the tops of the new concrete overlays and new portions of concrete slope walls.
14. Up to ¼ inch is to be ground off the proposed concrete overlays.
15. The Contractor shall take all measures necessary to ensure that no debris from the repairs is allowed to reach the railroad track or ballast. Cost is included with the appropriate pay item.
16. The work shall not change the quantity and/or character of flow in the Railway's ditches and/or drainage structures. The Railway's ditches shall be maintained at the same slope and grade as existing conditions.
17. The quantities and locations of Structural Repair of Concrete are approximated. Actual quantities and locations are to be determined in the field by the Engineer. This work is intended to repair only areas of severe deterioration. Some minor deteriorated areas may be left unrepaired. Do not disturb the bearings during the repair of adjacent concrete areas.
18. Cleaning and painting of the existing structural steel shall be as specified in the special provision for "Cleaning and Painting Existing Steel Structures." All beams and other structural steel within 5'-0" from the beam end (measured along the beam) shall be cleaned per Near White Blast Cleaning – SSPC-SP10.
19. All structural steel shall conform to AASHTO Classification M-270 Gr. 36, unless otherwise noted.

20. The designated areas cleaned per Near White Blast Cleaning shall be painted according to the requirements of the Organic Zinc-Rich Primer/Epoxy Intermediate Coat/Urethane Topcoat paint system. The color of the final finish coat for all interior steel surfaces shall be Gray, Munsell No. 5B 7/1. The color of the final finish coat for the exterior surfaces and bottom flange of the fascia beams shall be Interstate Green, Munsell No. 7.5G 4/8. Only the 5'-0" of steel near the joint will be painted. The remaining portions of the steel will not be coated in this contract.
21. SSPC QP1 and SSPC QP2 Certifications are required for this Contract.
22. A minimum of one air monitor will be required to monitor abrasive blasting operations at this site. See special provision for "Containment and Disposal of Lead Paint Cleaning Residues."
23. The Contractor shall take all measures necessary to ensure that the RWIS weather station conduit attached to the bottom of the bridge shall be undisturbed. Contact: Doug Rudolphi, D7 Maintenance Field Engineer, cell: 217-299-4636. The existing sensor shall be removed from the bridge deck by the Contractor during deck patching operations. The sensor shall be salvaged and turned over to the D7 Maintenance Field Engineer.
24. Structure number 058-0070 is referred to as Bridge No. 1. Structure number 058-0071 is referred to as Bridge No. 2.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SN 058-0070	SN 058-0071	TOTAL
Removal and Disposal of Unsuitable Material	Cu. Yd.	20	35	55
Subbase Granular Material, Type B	Ton	100	155	255
Concrete Removal	Cu. Yd.	13.8	12.7	26.5
Slope Wall Removal	Sq. Yd.	448	448	896
Protective Shield	Sq. Yd.	101	96	197
Floor Drains	Each	12	12	24
Concrete Structures	Cu. Yd.	21.7	21.6	43.3
Concrete Superstructure	Cu. Yd.	13.4	12.4	25.8
Protective Coat	Sq. Yd.	1,532	1,550	3,082
Furnishing and Erecting Structural Steel	Pound	2,925	2,956	5,881
Reinforcement Bars, Epoxy Coated	Pound	3,970	3,810	7,780
Bar Splicers	Each	20	20	40
Slope Wall 4 Inch	Sq. Yd.	444	444	888
Preformed Joint Strip Seal	Foot	97	91	188
Elastomeric Bearing Assembly, Type I	Each	14	14	28
Anchor Bolts, 1"	Each	24	24	48
Bridge Deck Grooving (Longitudinal)	Sq. Yd.	742	678	1,420
Slope Wall Repair	Sq. Yd.	0	80	80
Slope Wall Slurry Pumping	Cu. Yd.	37	13	50
Jack and Remove Existing Bearings	Each	14	14	28
Containment and Disposal of Lead Paint Cleaning Residues No.1	L Sum	1	0	1
Containment and Disposal of Lead Paint Cleaning Residues No.2	L Sum	0	1	1
Cleaning and Painting Steel Bridge No. 1	L Sum	1	0	1
Cleaning and Painting Steel Bridge No. 2	L Sum	0	1	1
Bridge Deck Fly Ash or GGBF Slag Concrete Overlay, 2½"	Sq. Yd.	1,043	983	2,026
Bridge Deck Scarification 2¼"	Sq. Yd.	1,043	983	2,026
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	Sq. Ft.	197	214	411
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	14	19	33
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	89	62	151
Diamond Grinding (Bridge Section)	Sq. Yd.	987	923	1,910

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL DATA
SN 058-0070 (WB) & SN 058-0071 (EB)

SHEET 2 OF 36 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	D7 BRIDGE REPAIRS 2026-3	MACON	108	74
		CONTRACT NO. 74D08		
		ILLINOIS	FED. AID PROJECT	



USER NAME = nhc	DESIGNED - ELH 01/26	REVISED -
ESCA PROJECT NO. = 1445.01	CHECKED - RDP 01/26	REVISED -
PLOT SCALE = 0:2 '"/in.	DRAWN - NHC 01/26	REVISED -
PLOT DATE = 1/21/2026	CHECKED - ELH 01/26	REVISED -

MODEL: Sheet
FILE NAME: Y:\DOT11445-01_74D08\74D08 DESIGN\CADD\SP SN 058-0070-0071\Common Sheets\0580070-D774D08-02-GenNotes.dgn

MODEL: Sheet
FILE NAME: Y:\DOT11445-01_74D08\74D08 DESIGN\CADD\SP SN 058-0070-0071\Common Sheets\0580070-D774D08-03-StageCon(WB).dgn



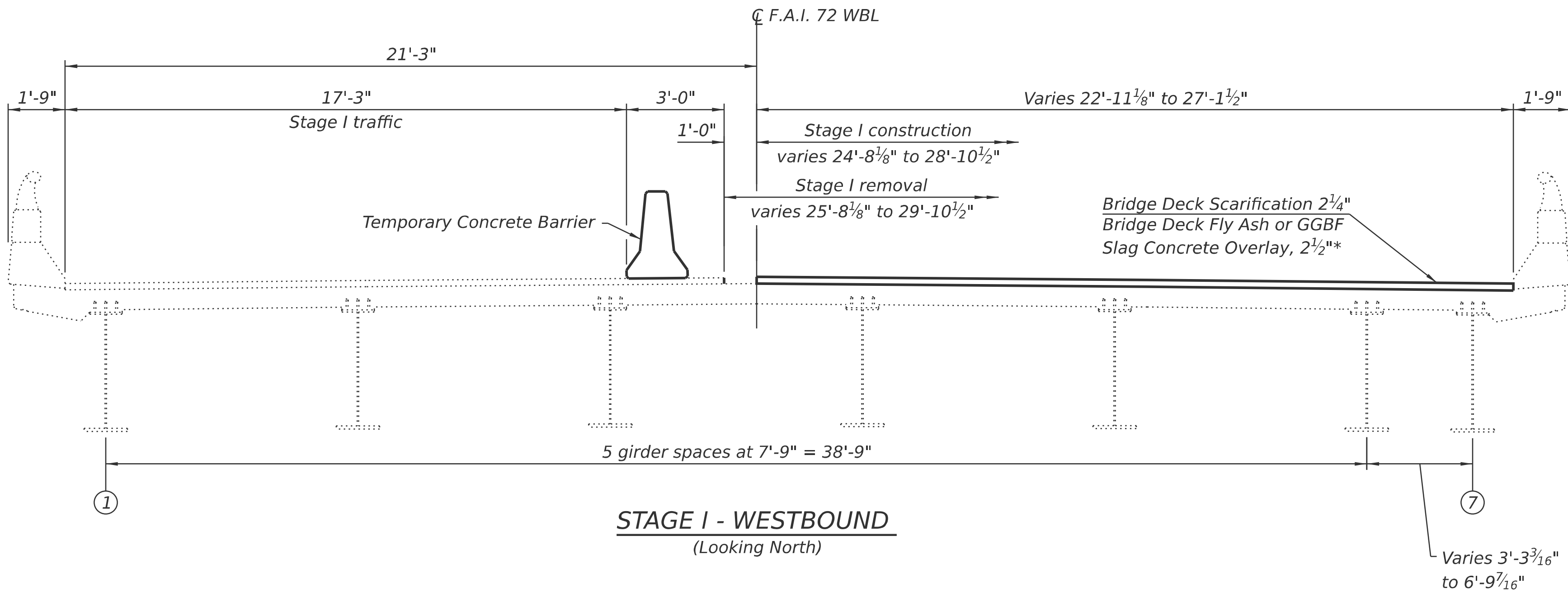
USER NAME = nhc	DESIGNED - ELH 01/26	REVISED -
ESCA PROJECT NO. = 1445.01	CHECKED - RDP 01/26	REVISED -
PLOT SCALE = 0.2'"/in.	DRAWN - NHC 01/26	REVISED -
PLOT DATE = 1/21/2026	CHECKED - ELH 01/26	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

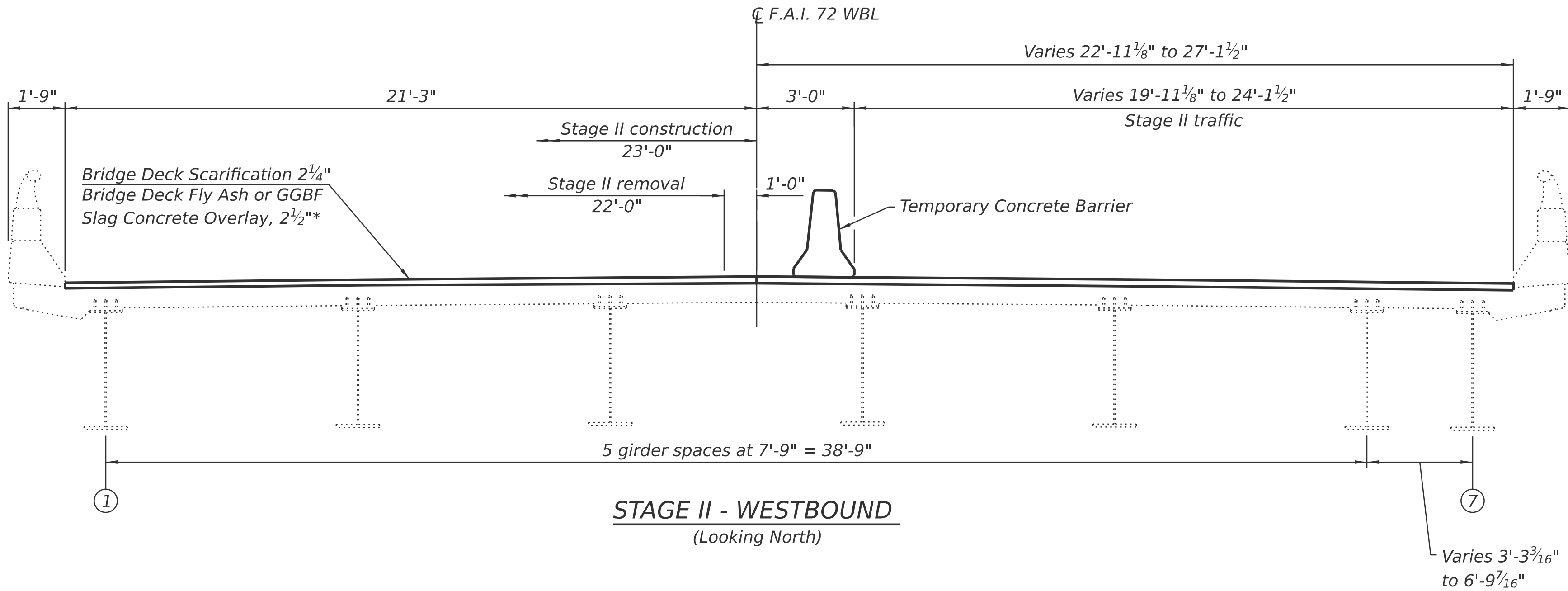
STAGE CONSTRUCTION
SN 058-0070 (WB)

SHEET 3 OF 36 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	D7 BRIDGE REPAIRS 2026-3	MACON	108	75
CONTRACT NO. 74D08				
		ILLINOIS	FED. AID PROJECT	



*Prior to 1/4" grinding



(Sheet 1 of 2)

MODEL: Sheet
FILE NAME: Y:\DOT11445-01_Z4D08\74D08 DESIGN\CADD\SP SN 058-0070-0071\Common Sheets\0580070-D774D08-04-StageCon(EB).dgn



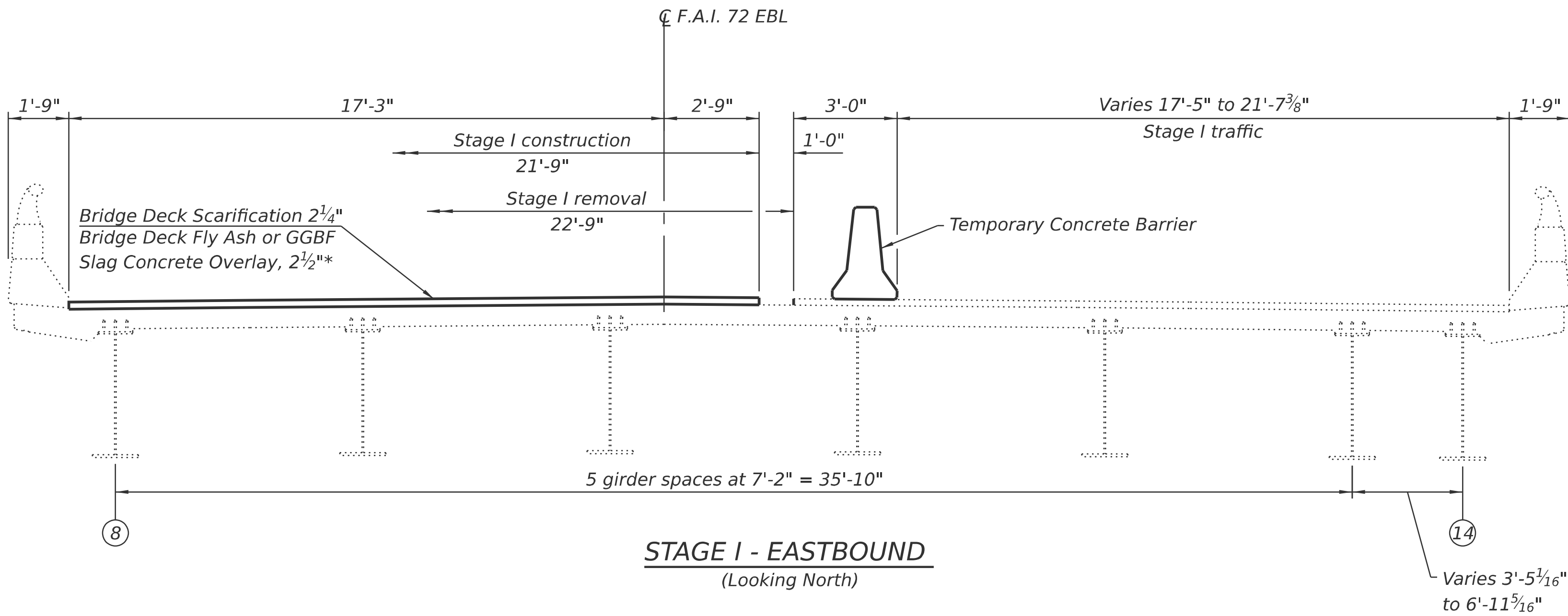
USER NAME = nhc	DESIGNED - ELH 01/26	REVISED -
ESCA PROJECT NO. = 1445.01	CHECKED - RDP 01/26	REVISED -
PLOT SCALE = 0.2 '"/td> <td>DRAWN - NHC 01/26</td> <td>REVISED -</td>	DRAWN - NHC 01/26	REVISED -
PLOT DATE = 1/21/2026	CHECKED - ELH 01/26	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

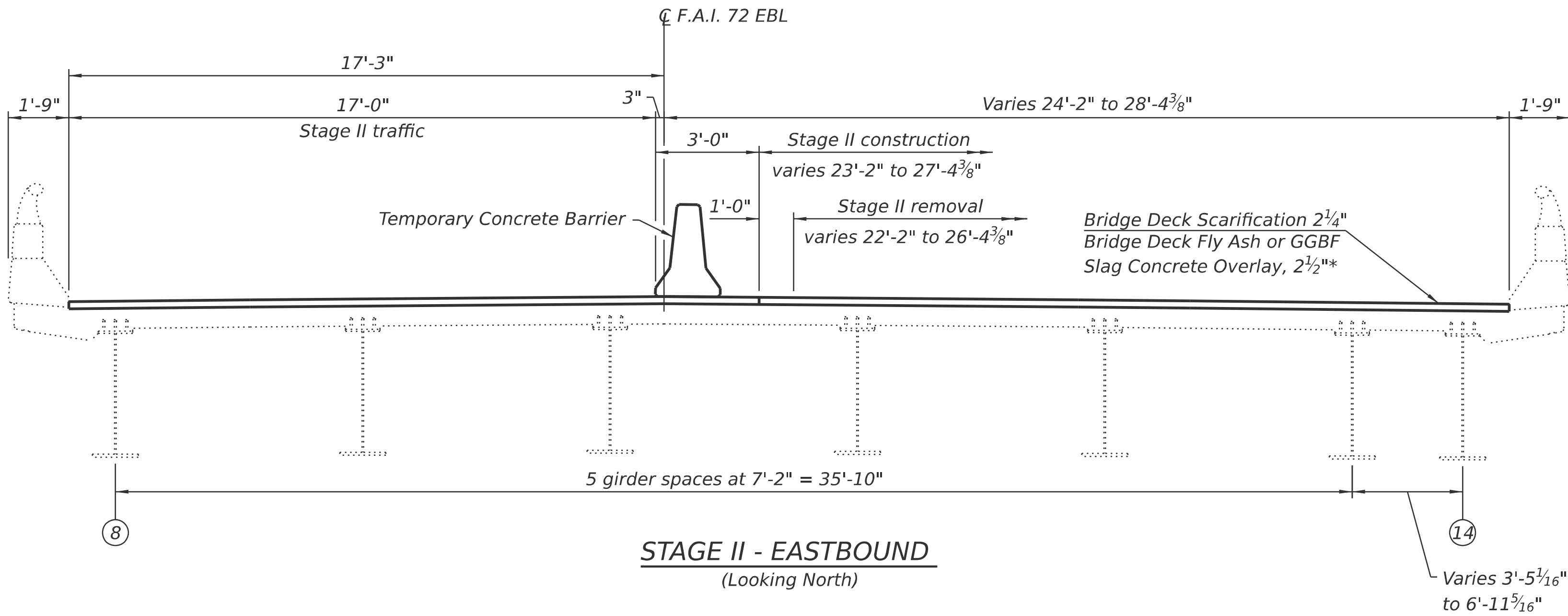
STAGE CONSTRUCTION
SN 058-0071 (EB)

SHEET 4 OF 36 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	D7 BRIDGE REPAIRS 2026-3	MACON	108	76
		CONTRACT NO. 74D08		
		ILLINOIS	FED. AID PROJECT	

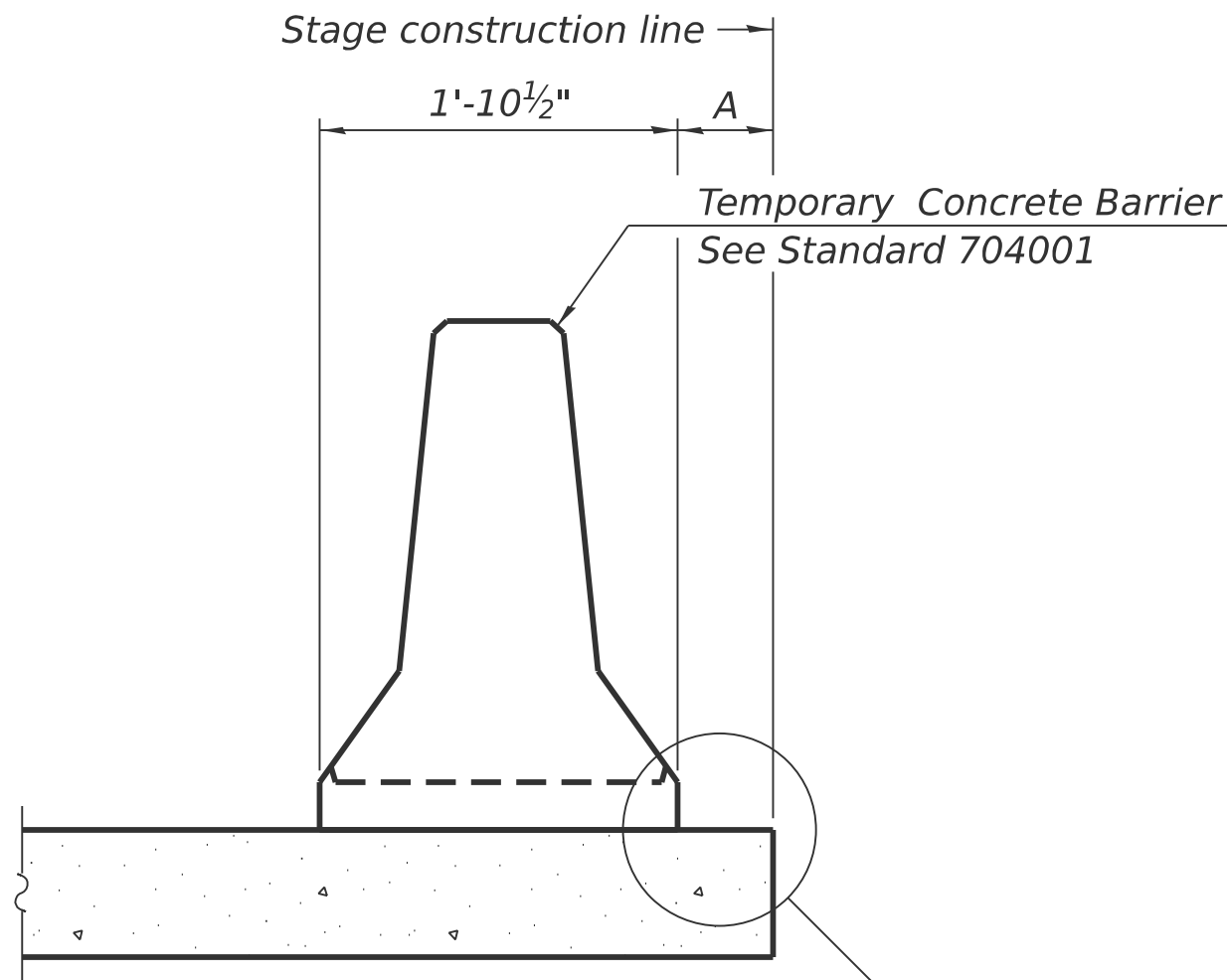


*Prior to $\frac{1}{4}$ " grinding



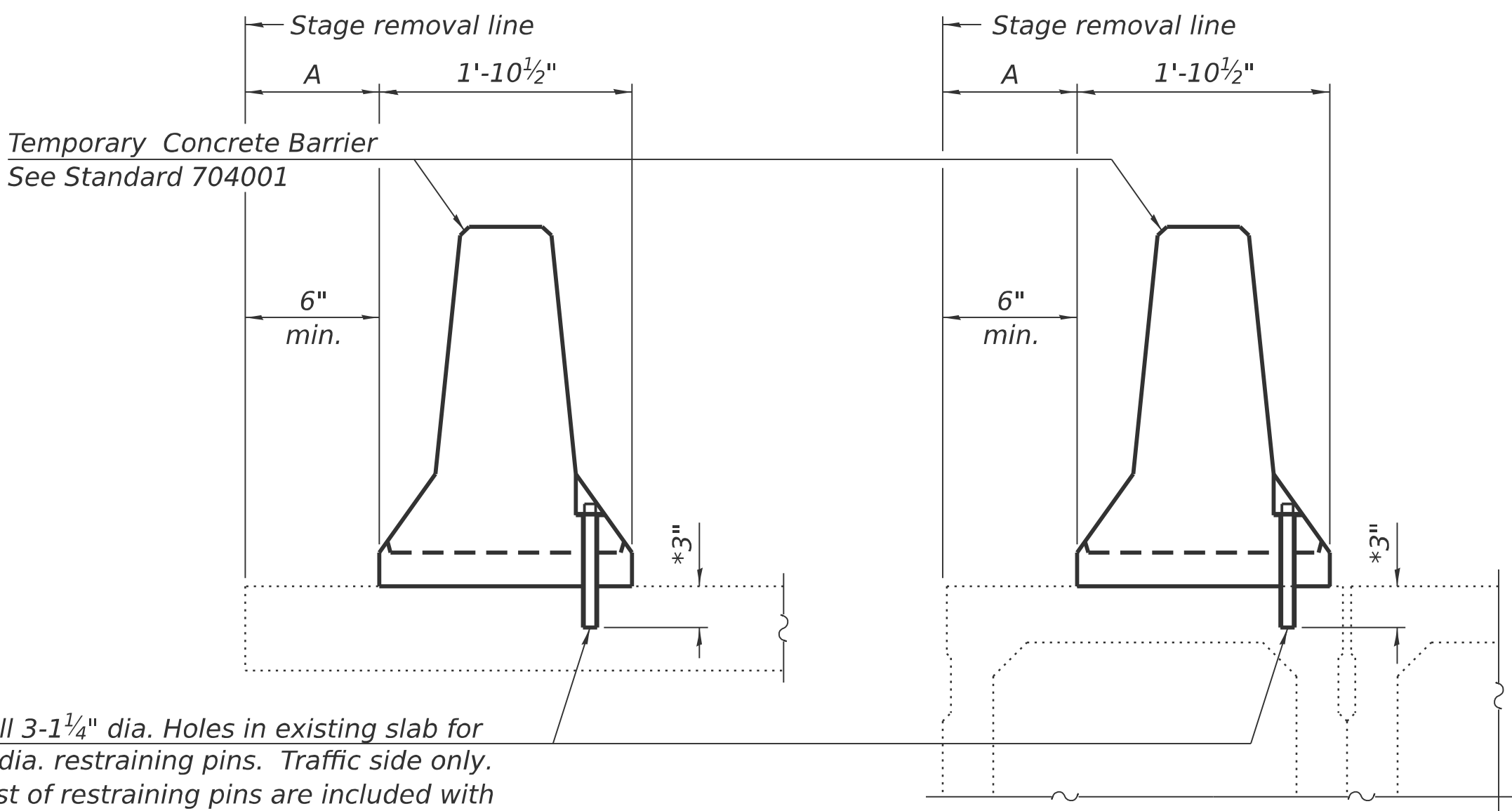
(Sheet 2 of 2)

MODEL: Sheet
FILE NAME: Y:\DOT11445-01_74D08\74D08 DESIGN\CADD\SP SN 058-0070-0071\Common Sheets\0580070-D774D08-05-TCB.dgn



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

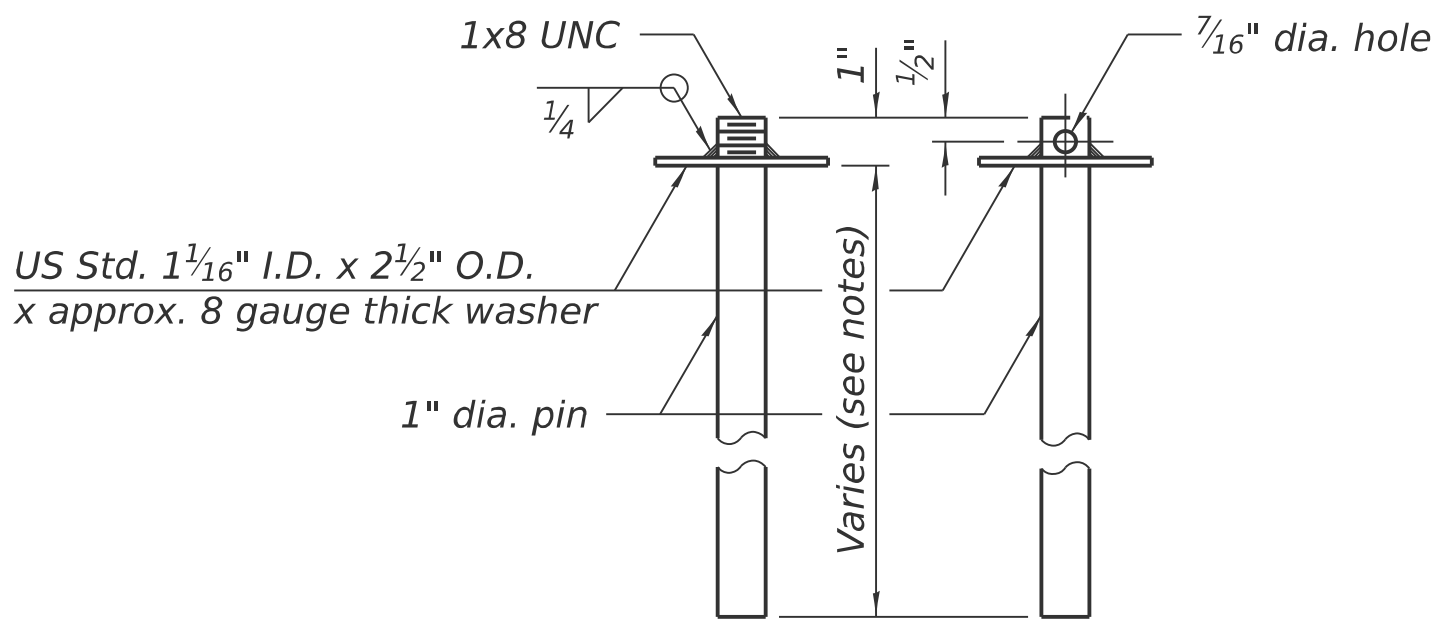


Drill 3-1 1/4" dia. Holes in existing slab for 1" dia. restraining pins. Traffic side only. Cost of restraining pins are included with Temporary Concrete Barrier. No restraint is required when "A" is greater than 3'-1".

EXISTING SLAB

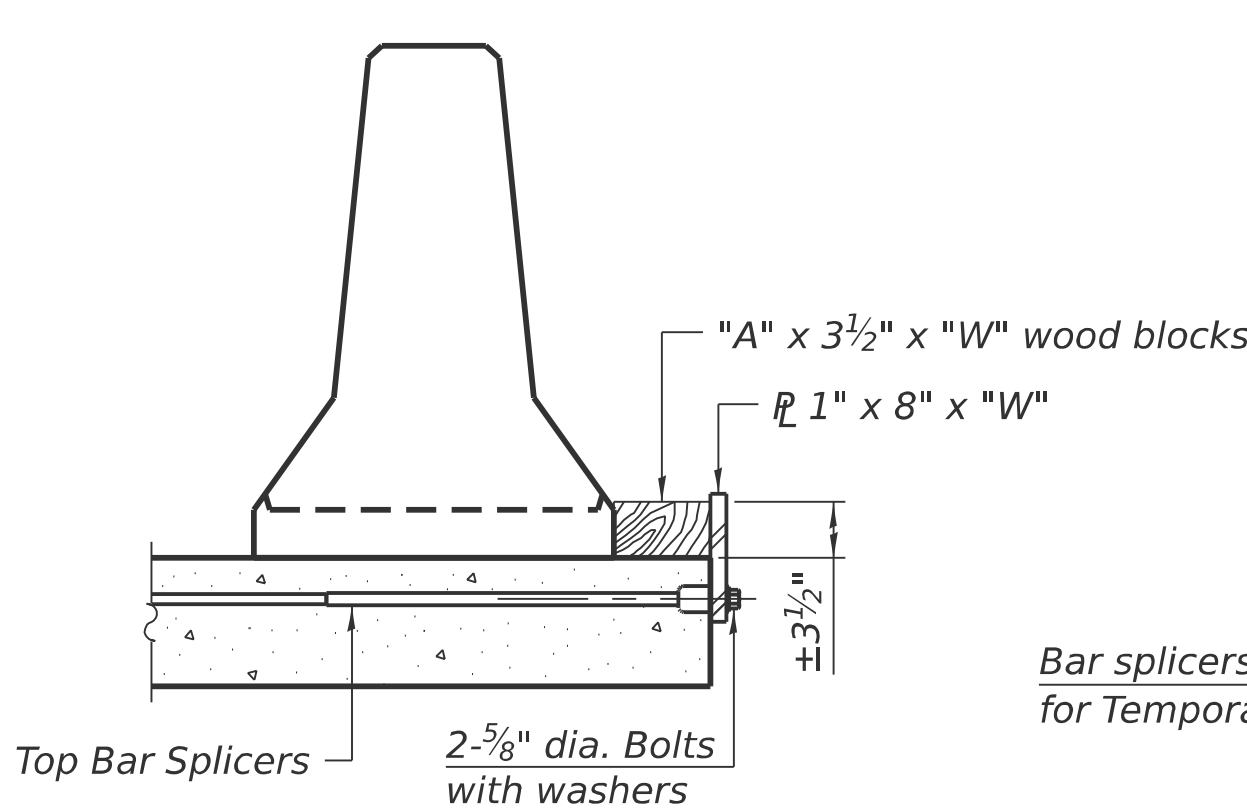
* When hot-mix asphalt wearing surface is present, embedment shall be 3" plus the wearing surface depth.

EXISTING DECK BEAM

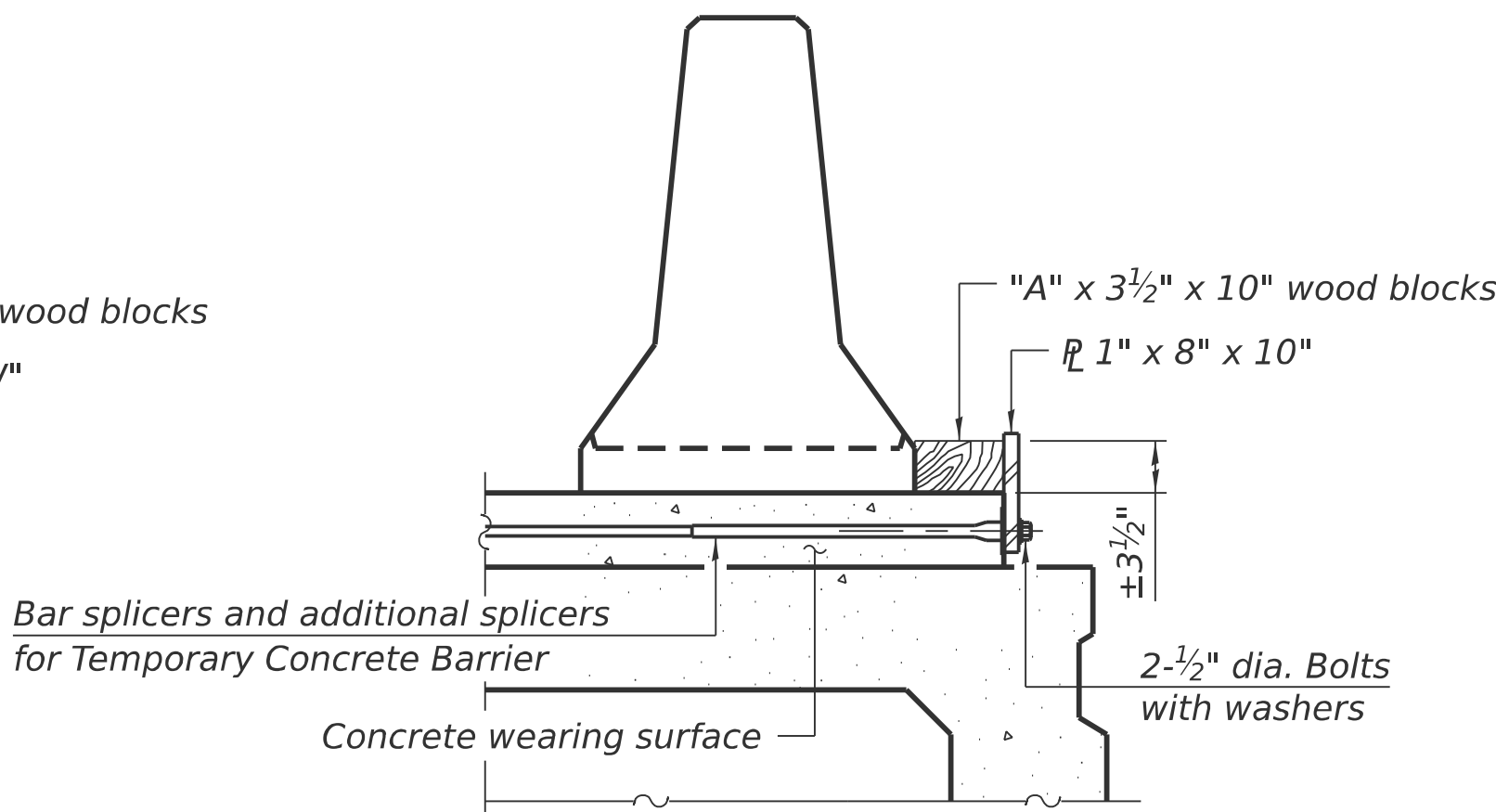


RESTRAINING PIN

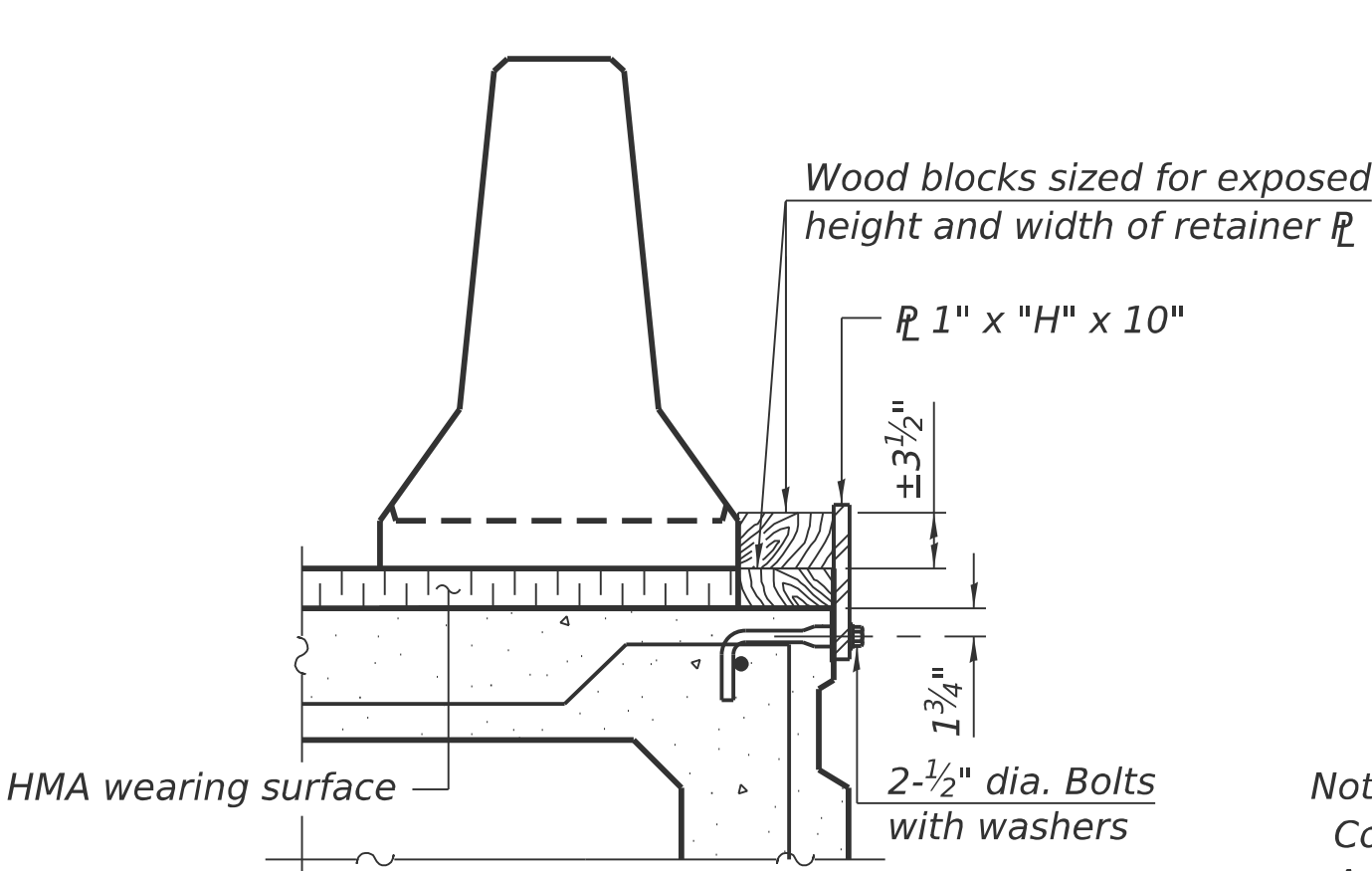
SECTIONS THRU SLAB OR DECK BEAM



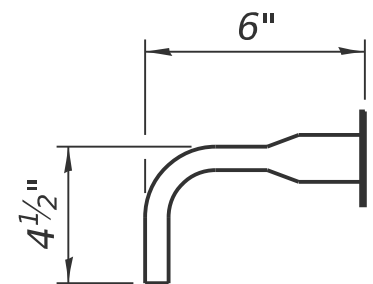
DETAIL I



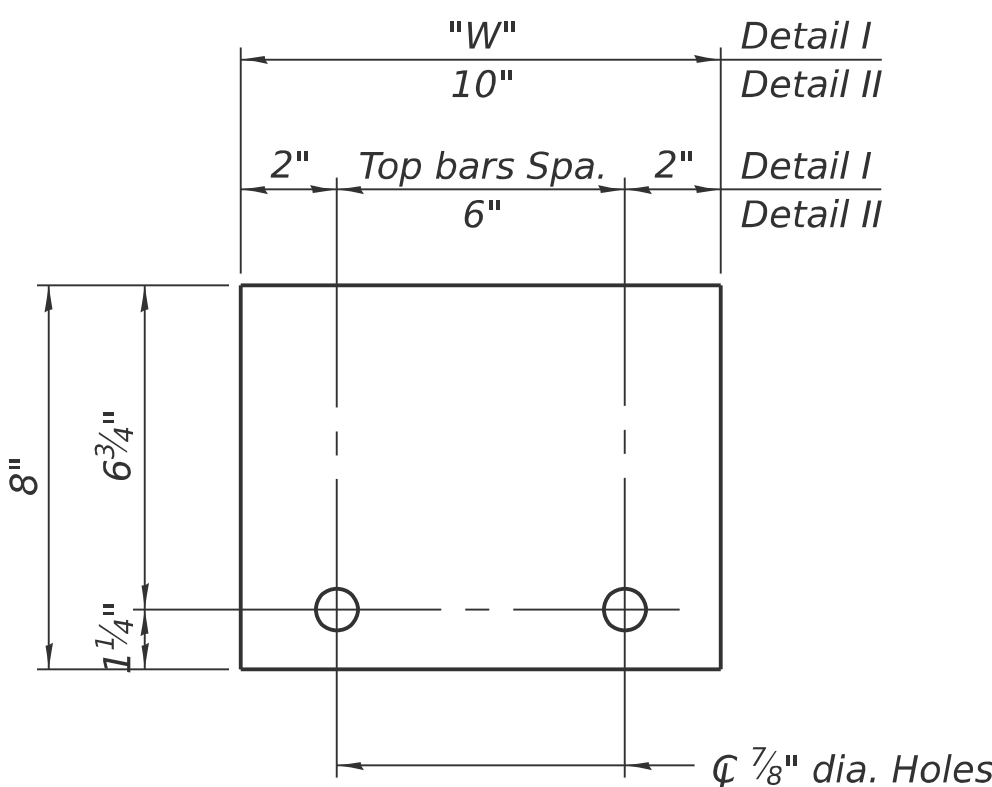
DETAIL II



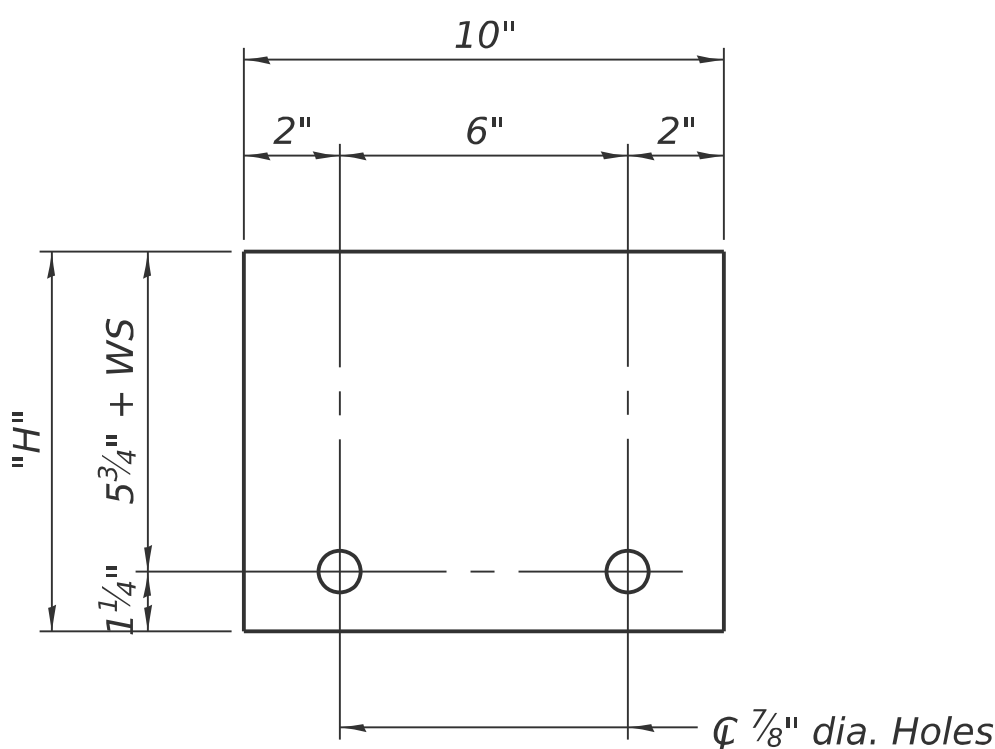
DETAIL III



BAR SPLICER FOR #4 BAR - DETAIL III



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



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

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

Detail I - Installation for a new bridge deck or bridge slab.

Detail II - Installation for a new deck beam with an initial concrete wearing surface. Additional bar splicers shall be provided at 6'-0" centers and paired with the bar splicers of the concrete wearing surface reinforcement to accommodate the installation of the retainer assemblies. The cost of the additional bar splicers is included with the concrete wearing surface.

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

RAILING CRITERIA

NCHRP 350 Test Level	3
Railing Weight (plf)	440

R-27

5-15-2023



USER NAME = nhc
ESCA PROJECT NO.= 1445.01
PLOT SCALE = 0:2 '"/td>
PLOT DATE = 1/20/2026

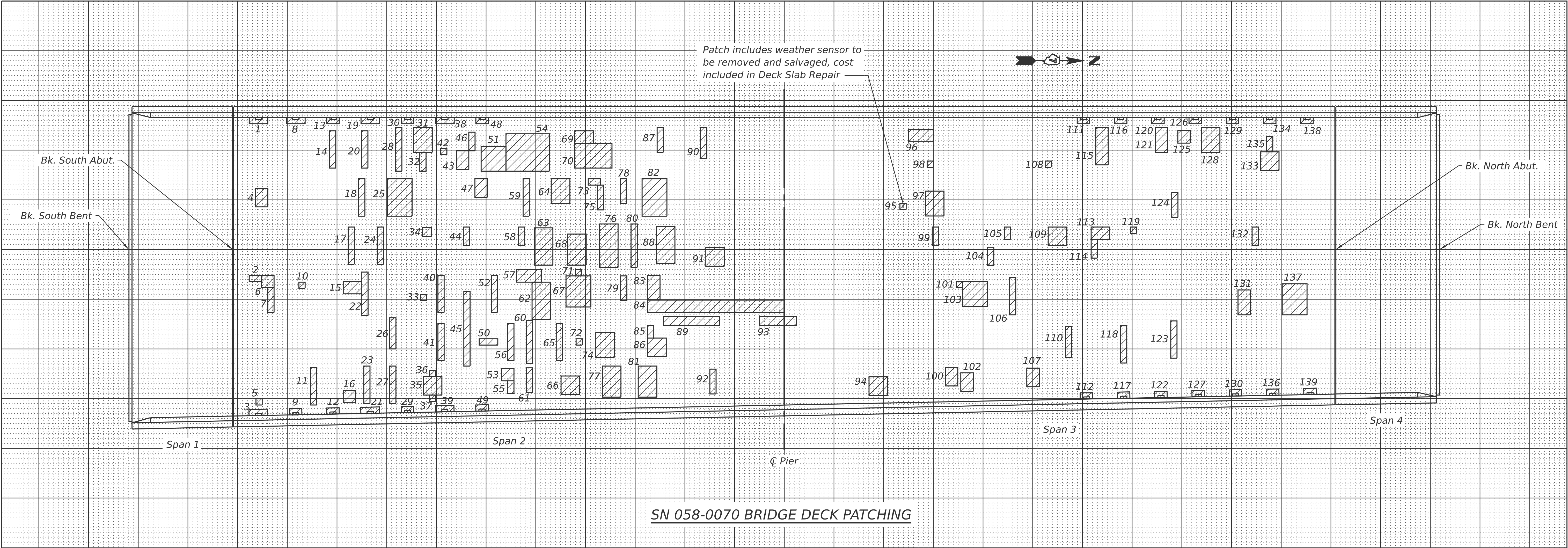
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CONCRETE BARRIER
SN 058-0070 (WB) & SN 058-0071 (EB)

SHEET 5 OF 36 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	D7 BRIDGE REPAIRS 2026-3	MACON	108	77
CONTRACT NO. 74D08				
ILLINOIS FED. AID PROJECT				

MODEL: Sheet
FILE NAME: Y:\DOT\1445-01_74D08\74D08 DESIGN\CADD\SP SN 058-0070-0071\Common Sheets\0580070-D774D08-06-DeckPatching(WB).dgn



SN 058-0070 BRIDGE DECK PATCHING

PATCH	SIZE (FEET)		DECK SLAB REPAIR (FD, TY I)	DECK SLAB REPAIR (FD, TY II)
	NO.	LENGTH	WIDTH	SQ YD
	1	3	1	0.3
	2	2	1	0.2
	3	3	1	0.3
	4	2	3	0.7
	5	1	1	0.1
	6	2	2	0.4
	7	1	4	0.4
	8	3	1	0.3
	9	2	1	0.2
	10	1	1	0.1
	11	1	6	0.7
	12	2	1	0.2
	13	2	1	0.2
	14	1	6	0.7
	15	3	2	0.7
	16	2	2	0.4
	17	1	6	0.7
	18	1	6	0.7
	19	3	1	0.3
	20	1	6	0.7
	21	3	1	0.3
	22	1	7	0.8
	23	1	6	0.7
	24	1	6	0.7
	25	4	6	2.7
	26	1	5	0.6
	27	1	6	0.7
	28	1	7	0.8
	29	2	1	0.2

PATCH	SIZE (FEET)		DECK SLAB REPAIR (FD, TY I)	DECK SLAB REPAIR (FD, TY II)
	NO.	LENGTH	WIDTH	SQ YD
	30	2	1	0.2
	31	3	4	1.3
	32	1	3	0.3
	33	1	1	0.1
	34	1.5	1.5	0.3
	35	3	3	1.0
	36	1	1	0.1
	37	1	1	0.1
	38	3	1	0.3
	39	3	1	0.3
	40	1	6	0.7
	41	1	6	0.7
	42	1	1	0.1
	43	2	3	0.7
	44	1	3	0.3
	45	1	12	1.3
	46	1	3	0.3
	47	2	3	0.7
	48	2	1	0.2
	49	2	1	0.2
	50	3	1	0.3
	51	4	4	1.8
	52	1	6	0.7
	53	2	2	0.4
	54	7	6	4.7
	55	1	2	0.2
	56	1	6	0.7
	57	4	2	0.9
	58	1	3	0.3

PATCH	SIZE (FEET)		DECK SLAB REPAIR (FD, TY I)	DECK SLAB REPAIR (FD, TY II)
	NO.	LENGTH	WIDTH	SQ YD
	59	1	6	0.7
	60	1	7	0.8
	61	1	4	0.4
	62	3	6	2.0
	63	3	6	2.0
	64	3	4	1.3
	65	1	6	0.7
	66	3	3	1.0
	67	4	5	2.2
	68	3	5	1.7
	69	2	3	0.7
	70	6	4	2.7
	71	1	1	0.1
	72	1	1	0.1
	73	2	1	0.2
	74	3	4	1.3
	75	1	4	0.4
	76	3	7	2.3
	77	3	5	1.7
	78	1	4	0.4
	79	1	4	0.4
	80	1	7	0.8
	81	3	5	1.7
	82	4	6	2.7
	83	2	4	0.9
	84	22	2	4.9
	85	1	2	0.2
	86	3	3	1.0
	87	1	4	0.4

PATCH	SIZE (FEET)		DECK SLAB REPAIR (FD, TY I)	DECK SLAB REPAIR (FD, TY II)
	NO.	LENGTH	WIDTH	SQ YD
	88	3	6	2.0
	89	9	1.5	1.5
	90	1	5	0.6
	91	3	3	1.0
	92	1	4	0.4
	93	6	1.5	1.0
	94	3	3	1.0
	95	1	1	0.1
	96	4	2	0.9
	97	3	4	1.3
	98	1	1	0.1
	99	1	3	0.3
	100	2	3	0.7
	101	1	1	0.1
	102	2	3	0.7
	103	4	4	1.8
	104	1	3	0.3
	105	1	2	0.2
	106	1	6	0.7
	107	2	3	0.7
	108	1	1	0.1
	109	3	3	1.0
	110	1	5	0.6
	111	2	1	0.2
	112	2	1	0.2
	113	3	2	0.7
	114	1	3	0.3
	115	2	6	1.3
	116	2	1	0.2

PATCH	SIZE (FEET)		DECK SLAB REPAIR (FD, TY I)	DECK SLAB REPAIR (FD, TY II)
	NO.	LENGTH	WIDTH	SQ YD
	117	2	1	0.2
	118	1	6	0.7
	119	1	1	0.1
	120	2	1	0.2
	121	2	4	0.9
	122	2	1	0.2
	123	1	6	0.7
	124	1	4	0.4
	125	2	2	0.4
	126	2	1	0.2
	127	2	1	0.2
	128	3	4	1.3
	129	2	1	0.2
	130	2	1	0.2
	131	2	4	0.9
	132	1	3	0.3
	133	3	3	1.0
	134	2	1	0.2
	135	1	2.5	0.3
	136	2	1	0.2
	137	4	5	2.2
	138	2	1	0.2
	139	2	1	0.2
TOTAL ROUNDS TO:			14.0	89.0

THE LOCATIONS AND SIZES SHOWN GRAPHICALLY ABOVE ARE APPROXIMATE. SEE THIS TABLE FOR ACTUAL SIZES.



DATE OF SURVEY: 07-08-25
SURVEY BY: ESCA CONSULTANTS
METHOD OF SURVEY: VISUAL

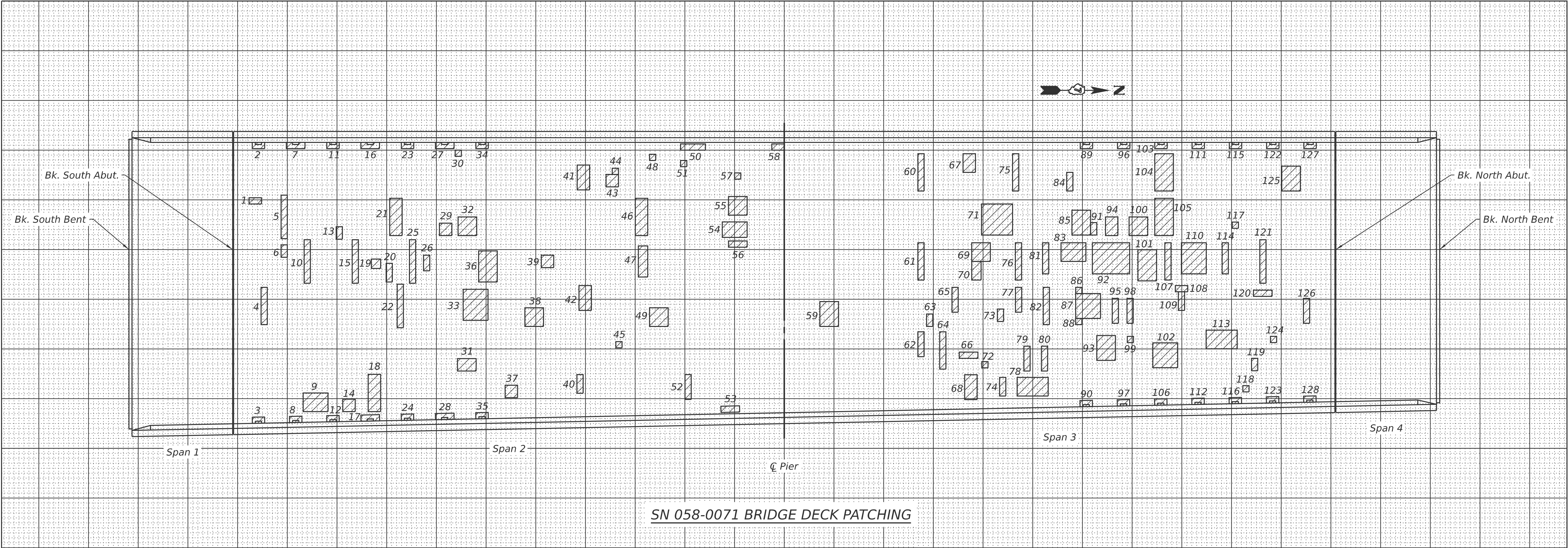
ESTIMATED
PAY QUANTITIES:

DECK SLAB REPAIR
(FULL DEPTH, TYPE I)
14.0 SQ YD

DECK SLAB REPAIR
(FULL DEPTH, TYPE II)
89.0 SQ YD

(Sheet 1 of 2)

MODEL: Sheet
FILE NAME: Y:\DOT11445-01_74D08\74D08 DESIGN\CADD\SP SN 058-0070-0071\Common Sheets\0580070-D774D08-07-DeckPatching(EB).dgn



SN 058-0071 BRIDGE DECK PATCHING

PATCH	SIZE (FEET)		DECK SLAB REPAIR (FD, TY I)	DECK SLAB REPAIR (FD, TY II)
	NO.	LENGTH	WIDTH	SQ YD
1	2	1		0.2
2	2	1		0.2
3	2	1		0.2
4	1	6		0.7
5	1	7		0.8
6	1	2		0.2
7	3	1		0.3
8	2	1		0.2
9	4	3		1.3
10	1	7		0.8
11	2	1		0.2
12	2	1		0.2
13	1	2		0.2
14	2	2		0.4
15	1	7		0.8
16	3	1		0.3
17	3	1		0.3
18	2	6		1.3
19	1.5	1.5		0.3
20	1	3		0.3
21	2	6		1.3
22	1	7		0.8
23	2	1		0.2
24	2	1		0.2
25	1	7		0.8
26	1	2.5		0.3
27	3	1		0.3
28	3	1		0.3
29	2	2		0.4

PATCH	SIZE (FEET)		DECK SLAB REPAIR (FD, TY I)	DECK SLAB REPAIR (FD, TY II)
	NO.	LENGTH	WIDTH	SQ YD
30	1	1		0.1
31	3	2		0.7
32	3	3		1.0
33	4	5		2.2
34	2	1		0.2
35	2	1		0.2
36	3	5		1.7
37	2	2		0.4
38	3	3		1.0
39	2	2		0.4
40	1	3		0.3
41	2	4		0.9
42	2	4		0.9
43	2	2		0.4
44	1	1		0.1
45	1	1		0.1
46	2	6		1.3
47	1.5	5		0.8
48	1	1		0.1
49	3	3		1.0
50	4	1		0.4
51	1	1		0.1
52	1	4		0.4
53	3	1		0.3
54	4	2.5		1.1
55	3	3		1.0
56	3	1		0.3
57	1	1		0.1
58	2	1		0.2

PATCH	SIZE (FEET)		DECK SLAB REPAIR (FD, TY I)	DECK SLAB REPAIR (FD, TY II)
	NO.	LENGTH	WIDTH	SQ YD
59	3	4		1.3
60	1	6		0.7
61	1	6		0.7
62	1	4		0.4
63	1	2		0.2
64	1	6		0.7
65	1	4		0.4
66	3	1		0.3
67	2	3		0.7
68	2	4		0.9
69	3	3		1.0
70	1.5	3		0.5
71	5	5		2.8
72	1	1		0.1
73	1	2		0.2
74	1	3		0.3
75	1	6		0.7
76	1	6		0.7
77	1	4		0.4
78	5	3		1.7
79	1	4		0.4
80	1	4		0.4
81	1	5		0.6
82	1	6		0.7
83	4	3		1.3
84	1	3		0.3
85	3	4		1.3
86	1	1		0.1
87	4	4		1.8

PATCH	SIZE (FEET)		DECK SLAB REPAIR (FD, TY I)	DECK SLAB REPAIR (FD, TY II)
	NO.	LENGTH	WIDTH	SQ YD
88	1	1		0.1
89	2	1		0.2
90	2	1		0.2
91	1	2		0.2
92	6	5		3.3
93	3	4		1.3
94	2	3		0.7
95	1	4		0.4
96	2	1		0.2
97	2	1		0.2
98	1	4		0.4
99	1	1		0.1
100	3	3		1.0
101	3	5		1.7
102	4	4		1.8
103	2	1		0.2
104	3	6		2.0
105	3	6		2.0
106	2	1		0.2
107	1	6		0.7
108	2	1		0.2
109	1	3		0.3
110	4	5		2.2
111	2	1		0.2
112	2	1		0.2
113	5	3		1.7
114	1	5		0.6
115	2	1		0.2
116	2	1		0.2

PATCH	SIZE (FEET)		DECK SLAB REPAIR (FD, TY I)	DECK SLAB REPAIR (FD, TY II)
	NO.	LENGTH	WIDTH	SQ YD
117	1	1		0.1
118	1	1		0.1
119	1	2		0.2
120	3	1		0.3
121	1	7		0.8
122	2	1		0.2
123	2	1		0.2
124	1	1		0.1
125	3	4		1.3
126	1	4		0.4
127	2	1		0.2
128	2	1		0.2
TOTAL ROUNDS TO:			19.0	62.0

THE LOCATIONS AND SIZES SHOWN GRAPHICALLY ABOVE ARE APPROXIMATE. SEE THIS TABLE FOR ACTUAL SIZES.



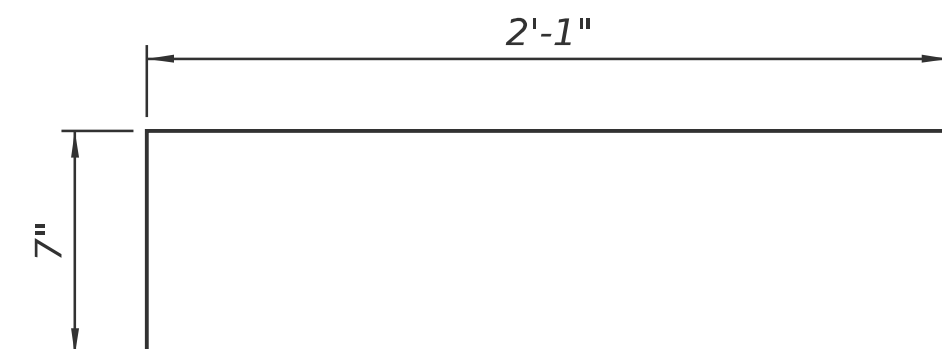
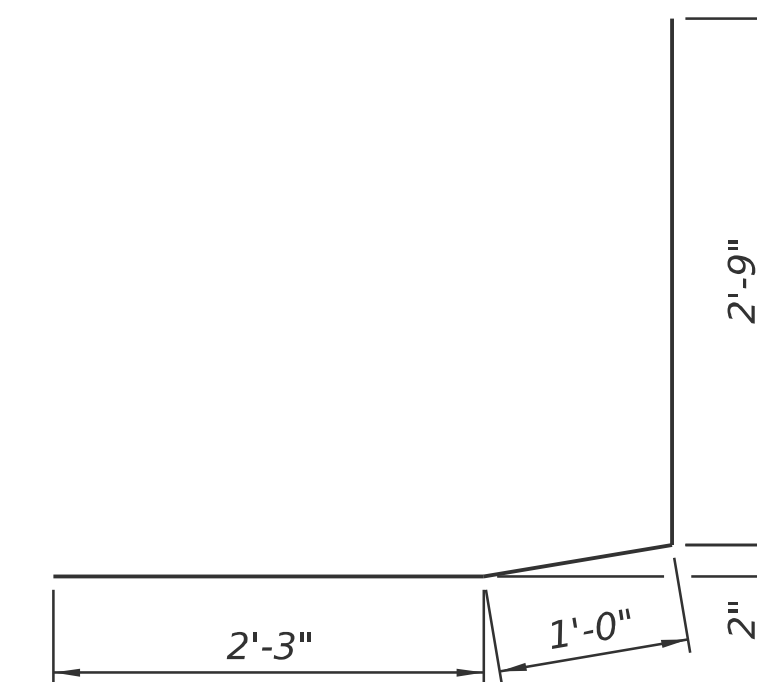
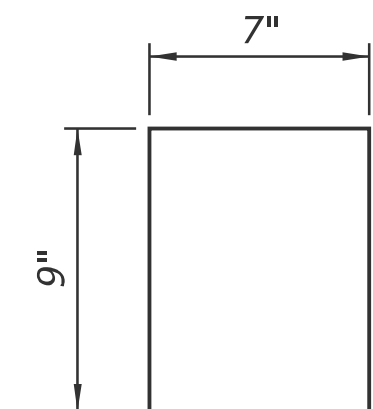
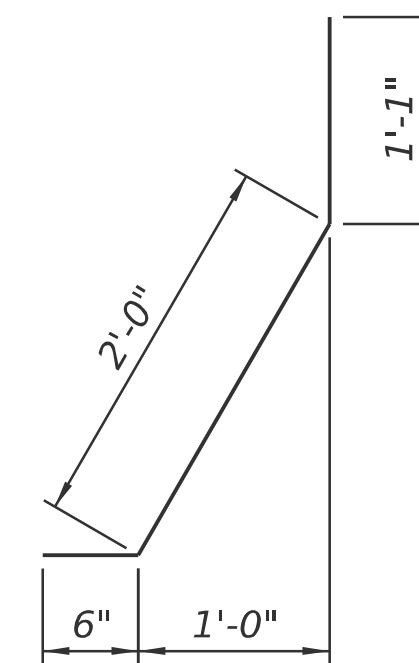
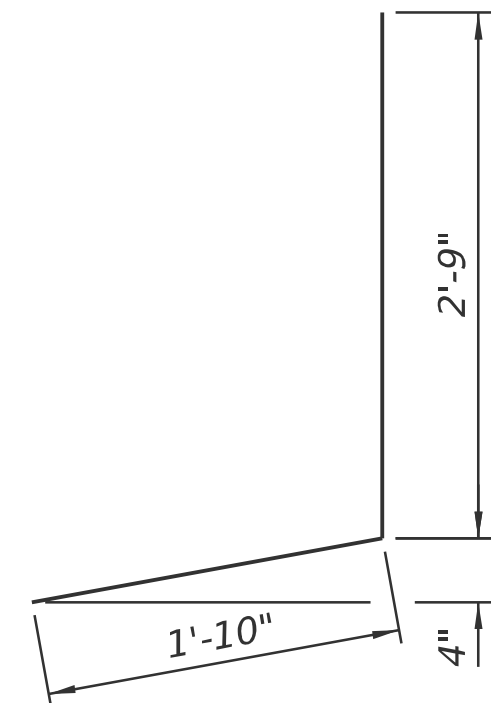
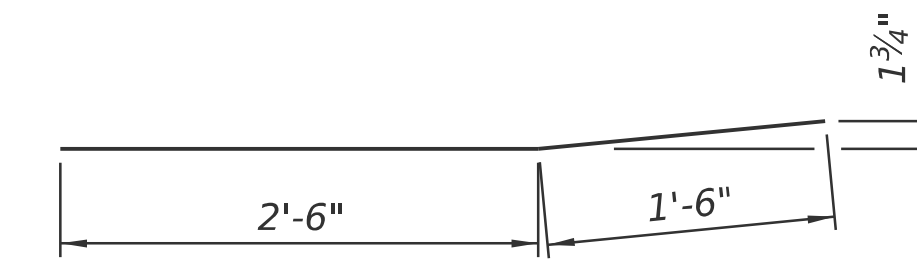
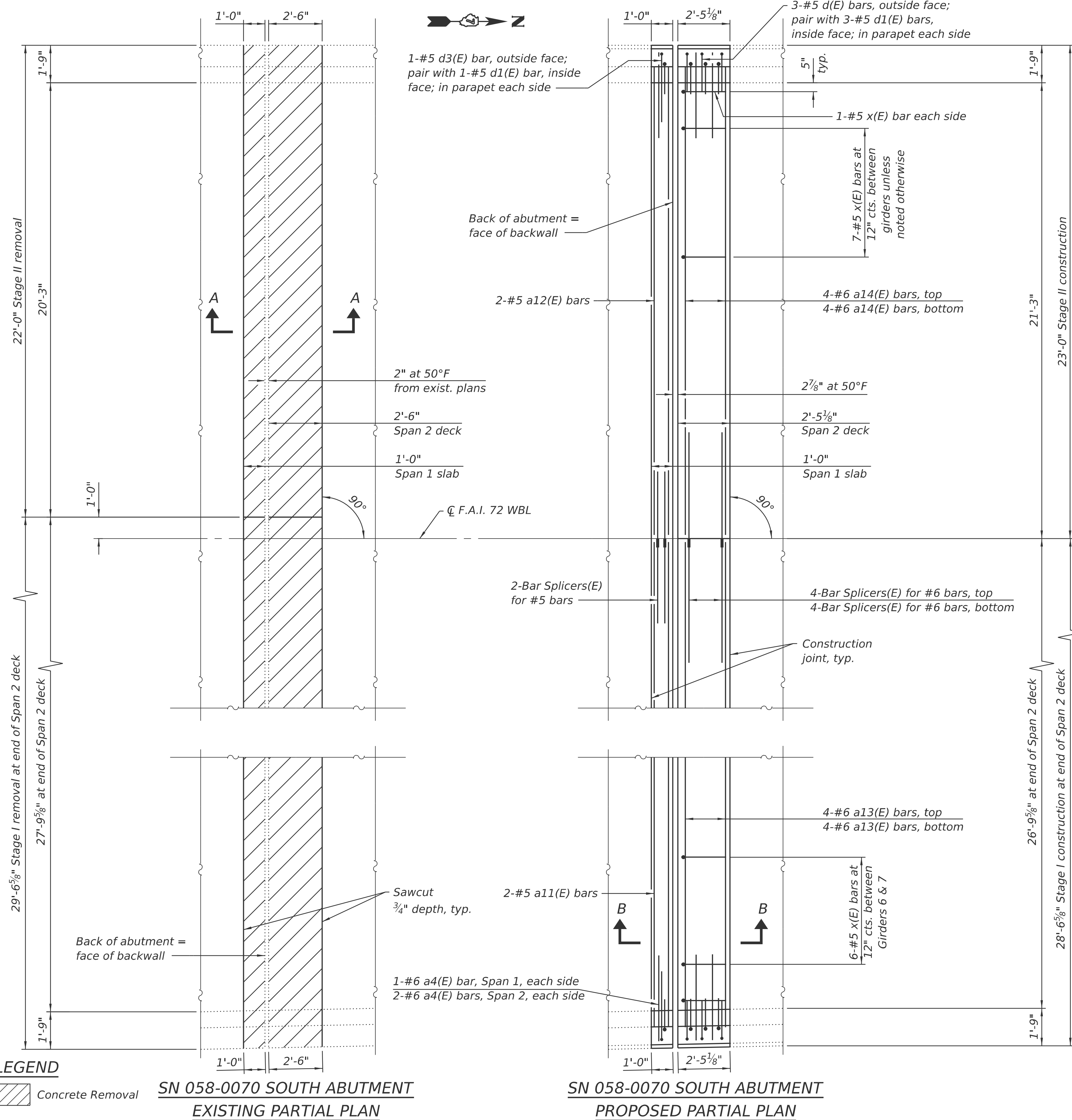
DATE OF SURVEY: 07-08-25
SURVEY BY: ESCA CONSULTANTS
METHOD OF SURVEY: VISUAL

ESTIMATED
PAY QUANTITIES:

DECK SLAB REPAIR
(FULL DEPTH, TYPE I)
19.0 SQ YD

DECK SLAB REPAIR
(FULL DEPTH, TYPE II)
62.0 SQ YD

(Sheet 2 of 2)

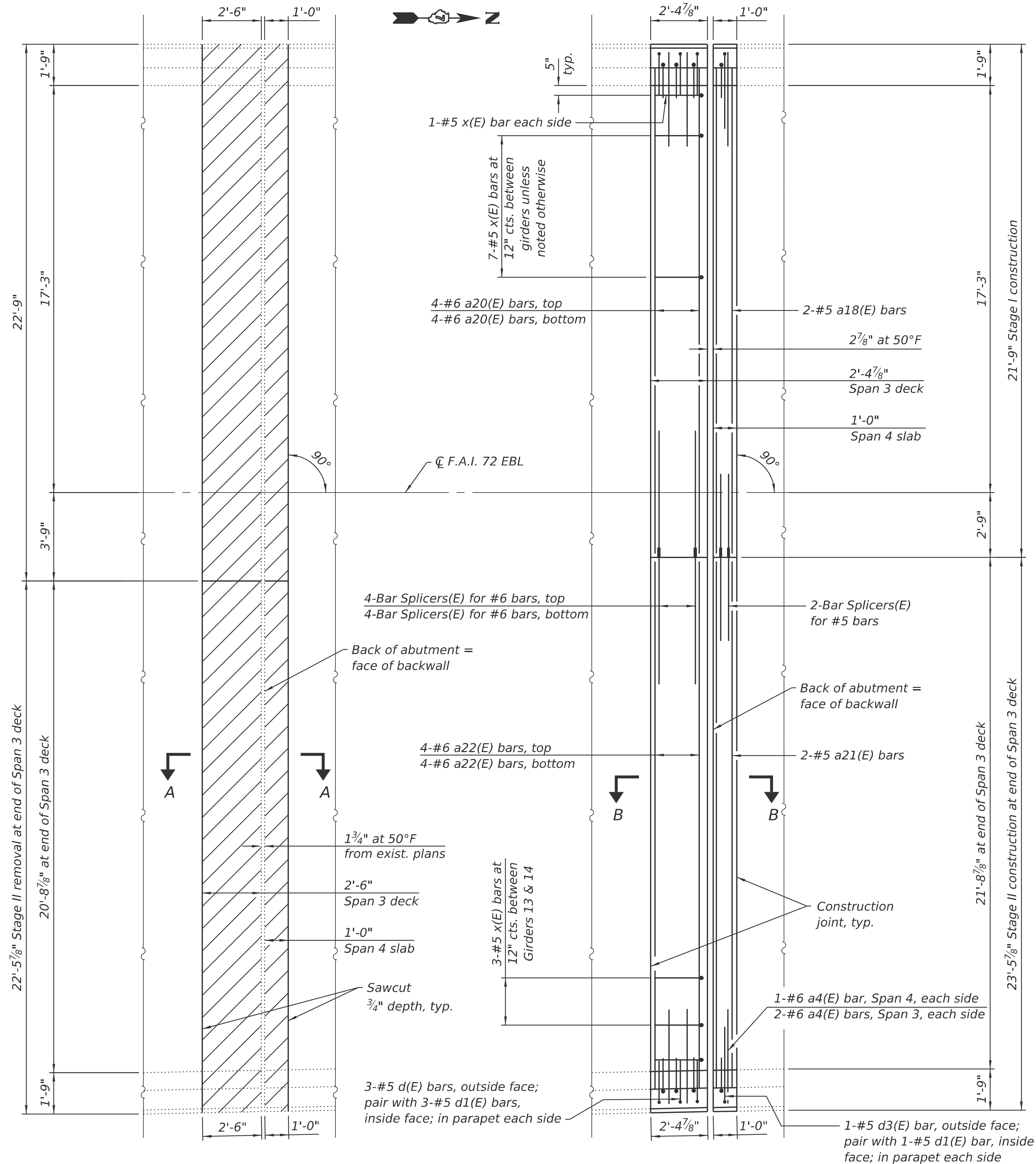


SN 058-0070 BILL OF MATERIAL
(South Abutment)

Bar	Number		Total	Size	Length	Shape
	Stage I	Stage II				
a4(E)	3	3	6	#6	4'-0"	
a11(E)	2	0	2	#5	27'-5"	
a12(E)	0	2	2	#5	21'-10"	
a13(E)	8	0	8	#6	27'-5"	
a14(E)	0	8	8	#6	21'-10"	
d(E)	3	3	6	#5	4'-7"	
d1(E)	4	4	8	#5	3'-7"	
d2(E)	2	2	4	#4	2'-1"	
d3(E)	1	1	2	#5	6'-0"	
x(E)	21	22	43	#5	2'-8"	
Reinforcement Bars, Epoxy Coated					Pound	930
Concrete Removal					Cu. Yd.	6.9
Concrete Superstructure					Cu. Yd.	6.9
Bar Splicers					Each	10

Notes:
For Section A-A and Section B-B see
Sheet 12 of 36.
Trim ends of existing longitudinal
reinforcement in decks and parapets to
provide minimum clearance for the
expansion joint. Cost is included
in Concrete Removal.

MODEL: Sheet
FILE NAME: Y:\DOT11445-01_Z4D08\74D08 DESIGN\CADD\SP SN 058-0070-0071\Common Sheets\0580070-D774D08-11-Expansion\JD11s.dgn



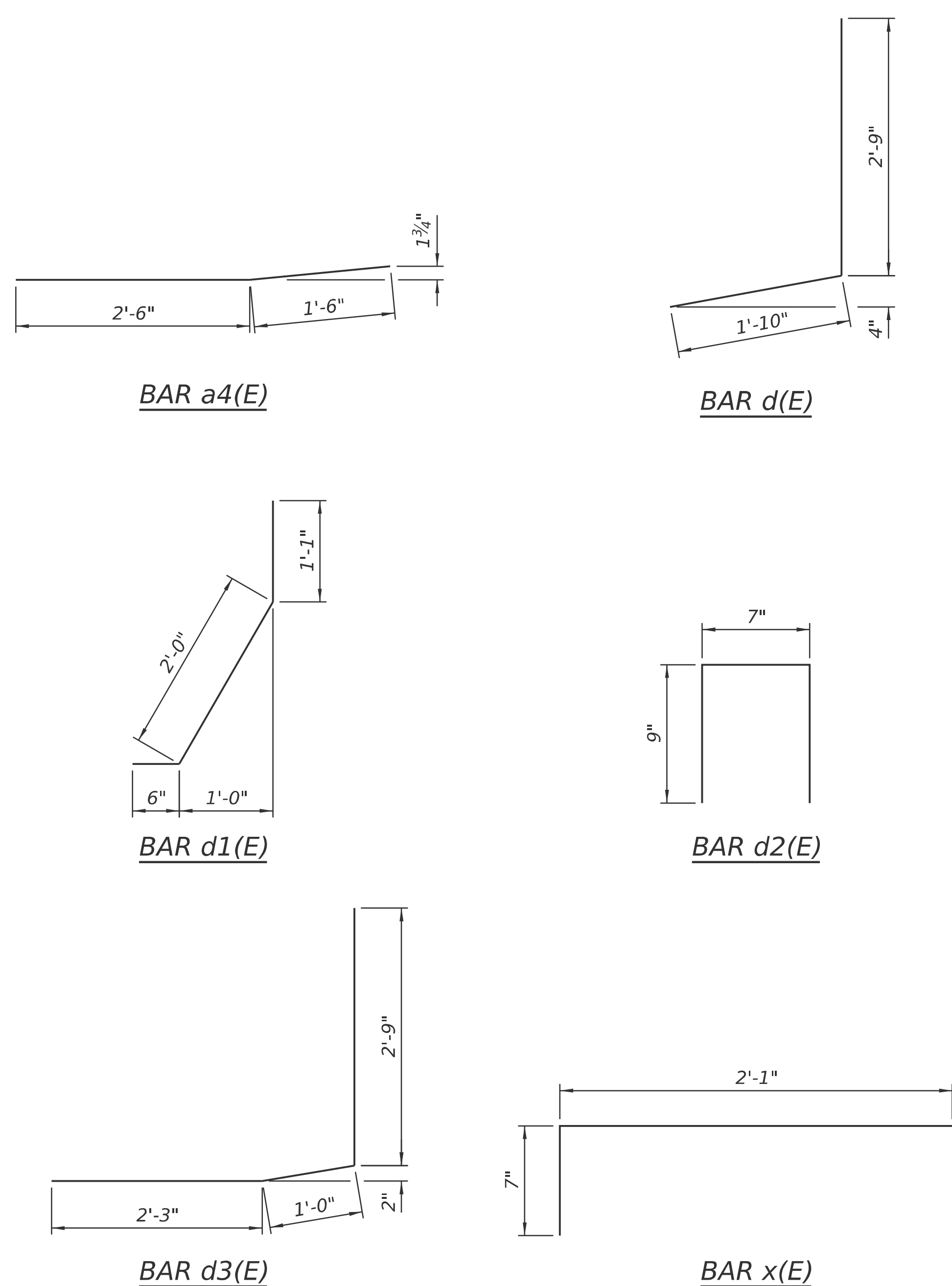
LEGEND



SN 058-0071 NORTH ABUTMENT EXISTING PARTIAL PLAN

SN 058-0071 NORTH ABUTMENT PROPOSED PARTIAL PLAN

Notes:
For Section A-A and Section B-B see Sheet 12 of 36.
Trim ends of existing longitudinal reinforcement in decks and parapets to provide minimum clearance for the expansion joint. Cost is included in Concrete Removal.



SN 058-0071 BILL OF MATERIAL (North Abutment)

Bar	Number		Total	Size	Length	Shape
	Stage I	Stage II				
a4(E)	3	3	6	#6	4'-0"	—
a18(E)	2	0	2	#5	20'-7"	—
a20(E)	8	0	8	#6	20'-7"	—
a21(E)	0	2	2	#5	22'-4"	—
a22(E)	0	8	8	#6	22'-4"	—
d(E)	3	3	6	#5	4'-7"	┘
d1(E)	4	4	8	#5	3'-7"	┘
d2(E)	2	2	4	#4	2'-1"	┘
d3(E)	1	1	2	#5	6'-0"	┘
x(E)	19	21	40	#5	2'-8"	┘
Reinforcement Bars, Epoxy Coated					Pound	830
Concrete Removal					Cu. Yd.	6.0
Concrete Superstructure					Cu. Yd.	6.0
Bar Splicers					Each	10

(Sheet 4 of 6)

EXPANSION JOINT REPLACEMENT DETAILS SN 058-0071 (EB)

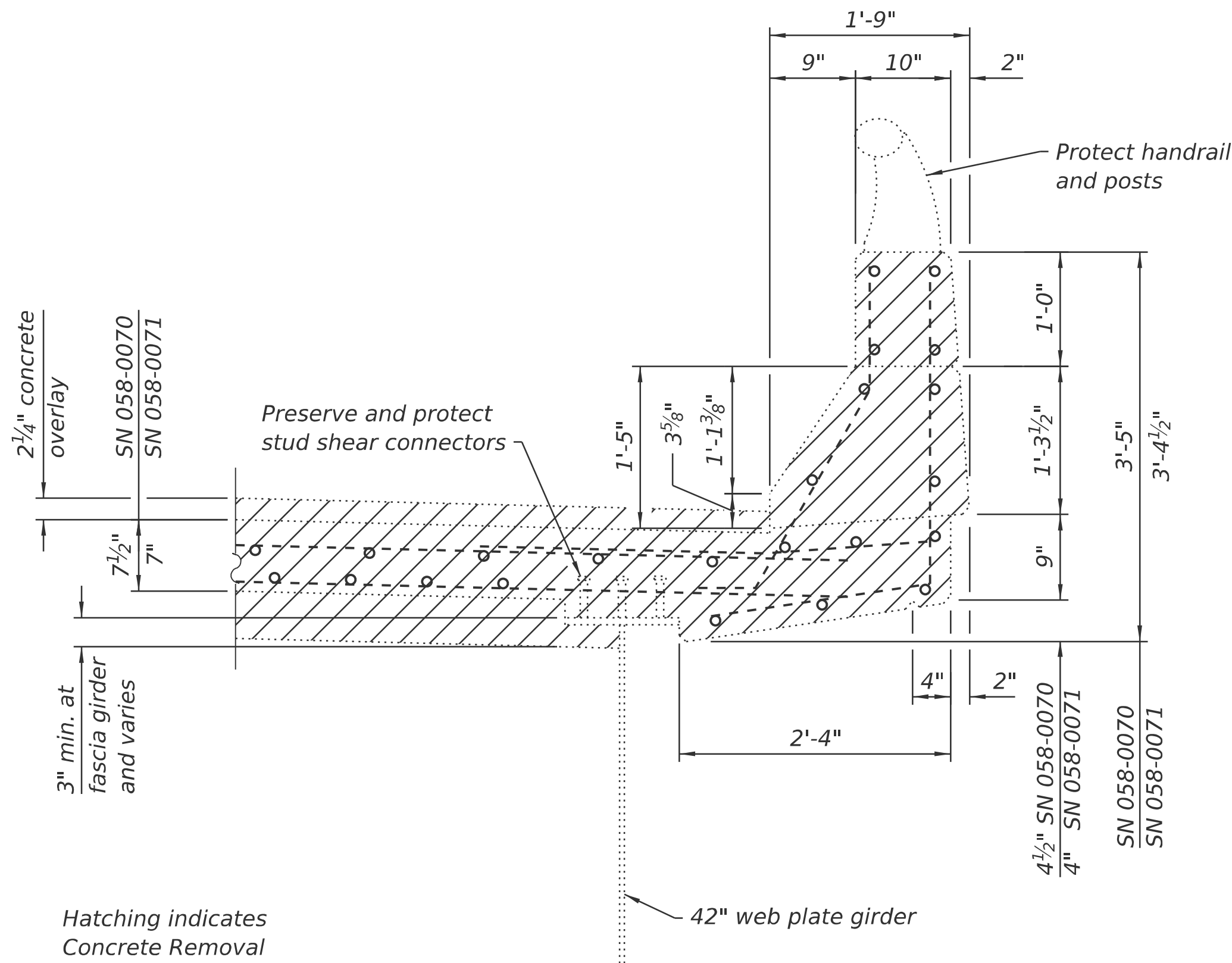
SHEET 11 OF 36 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	D7 BRIDGE REPAIRS 2026-3	MACON	108	83
CONTRACT NO. 74D08				
ILLINOIS FED. AID PROJECT				

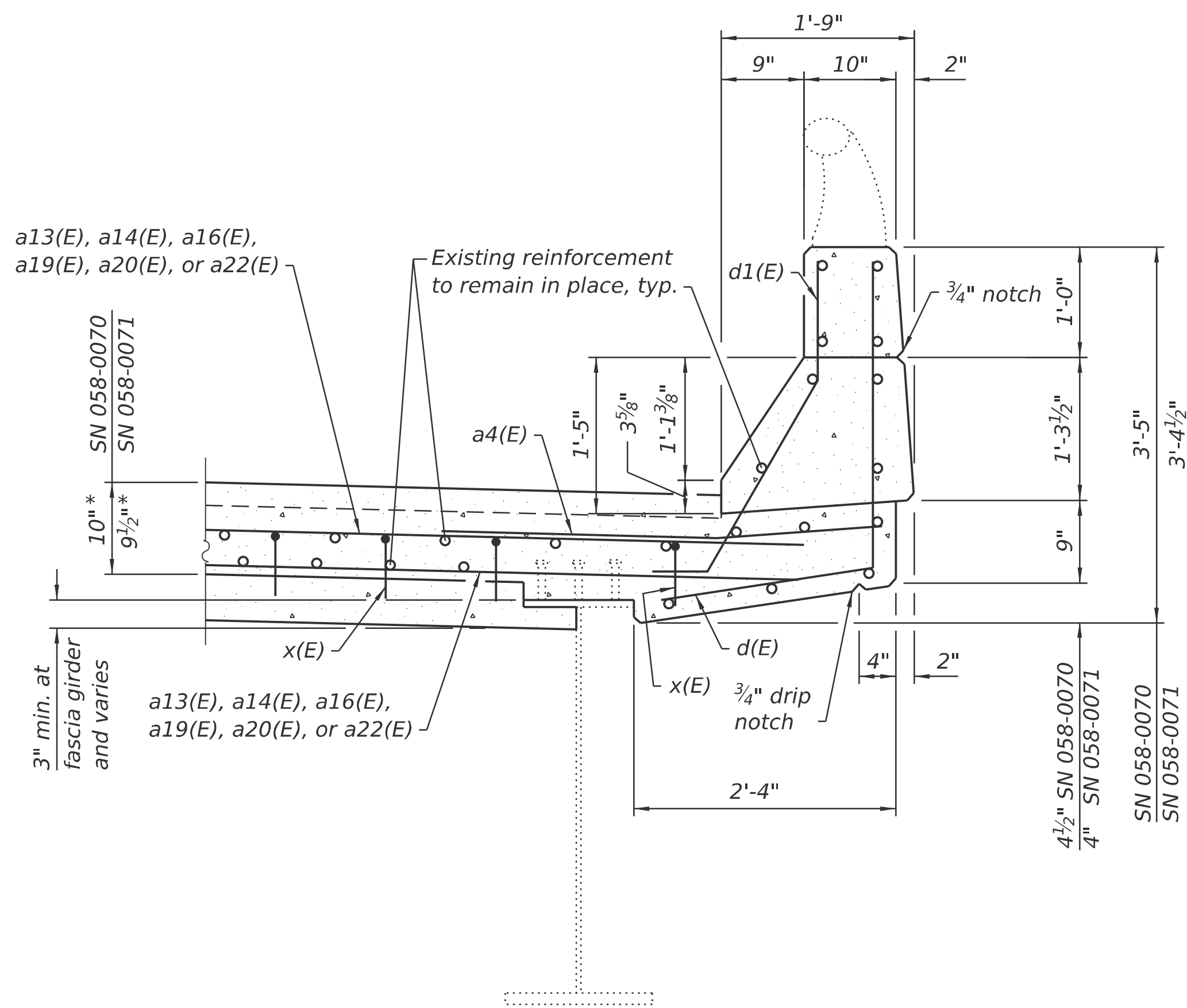


USER NAME = nhc	DESIGNED - ELH 08/25	REVISED -
ESCA PROJECT NO. = 1445.01	CHECKED - RDP 08/25	REVISED -
PLOT SCALE = 0.2'"/in.	DRAWN - NHC 08/25	REVISED -
PLOT DATE = 1/20/2026	CHECKED - ELH 08/25	REVISED -

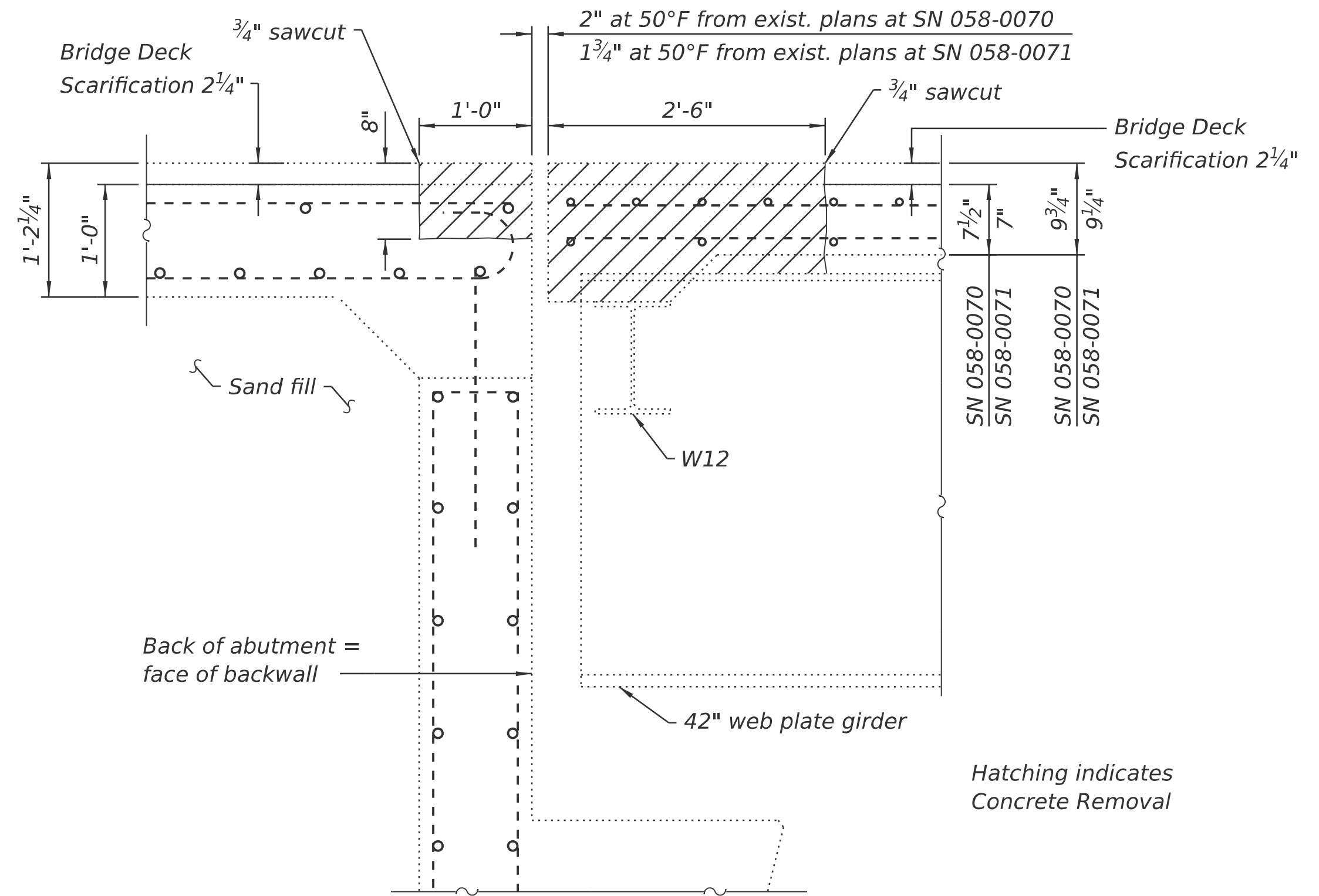
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION



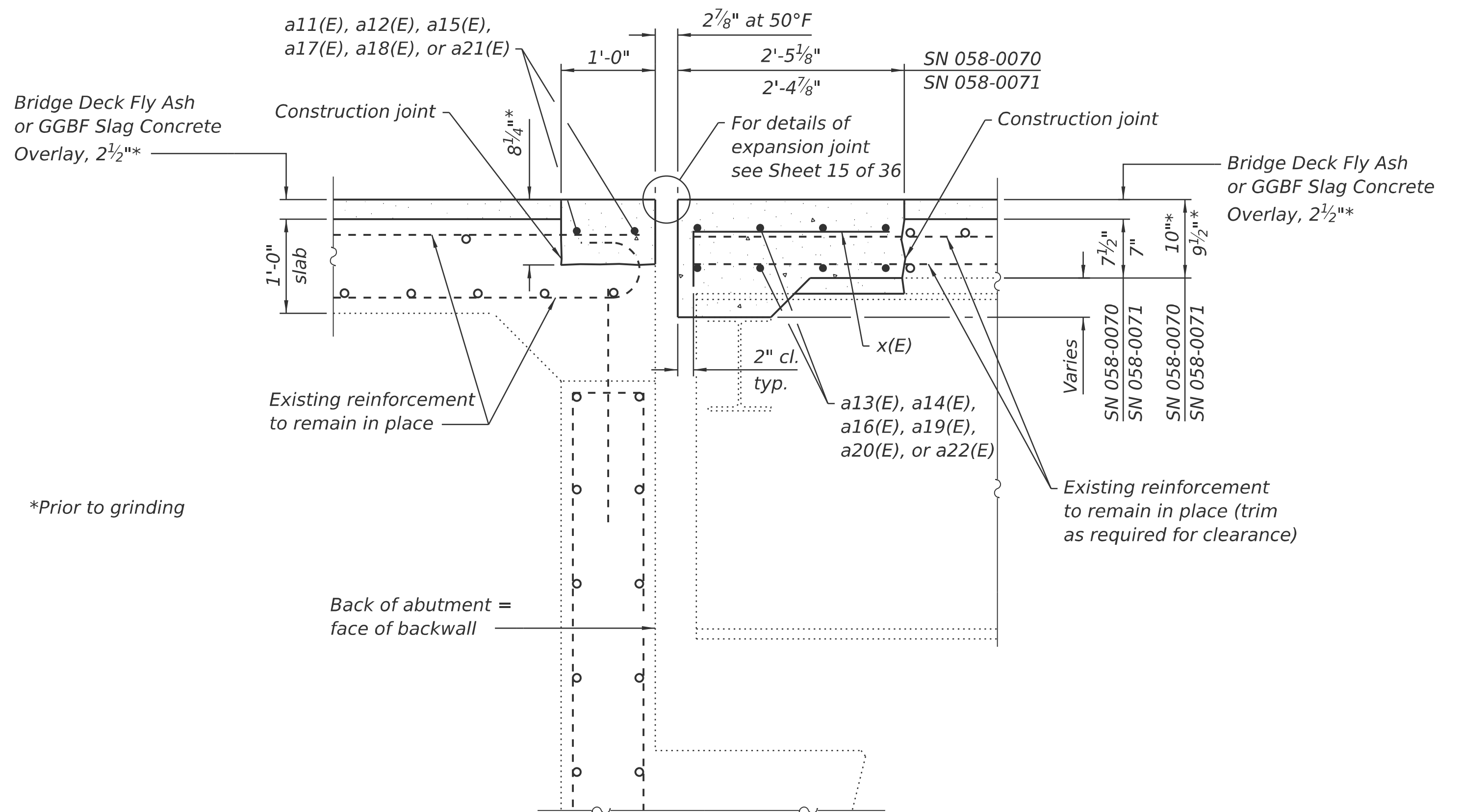
SECTION THRU EXISTING PARAPET AT MAIN SPANS



SECTION THRU PROPOSED PARAPET AT MAIN SPANS



SECTION A-A



SECTION B-B

(Sheet 5 of 6)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXPANSION JOINT REPLACEMENT DETAILS
SN 058-0070 (WB) & SN 058-0071 (EB)

SHEET 12 OF 36 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	D7 BRIDGE REPAIRS 2026-3	MACON	108	84
CONTRACT NO. 74D08				
ILLINOIS FED. AID PROJECT				



USER NAME = nhc
ESCA PROJECT NO. = 1445.01
PLOT SCALE = 0.2" / in.
PLOT DATE = 1/20/2026

DESIGNED - ELH 08/25
CHECKED - RDP 08/25
DRAWN - NHC 08/25
CHECKED - ELH 08/25

REVISED -
REVISED -
REVISED -
REVISED -



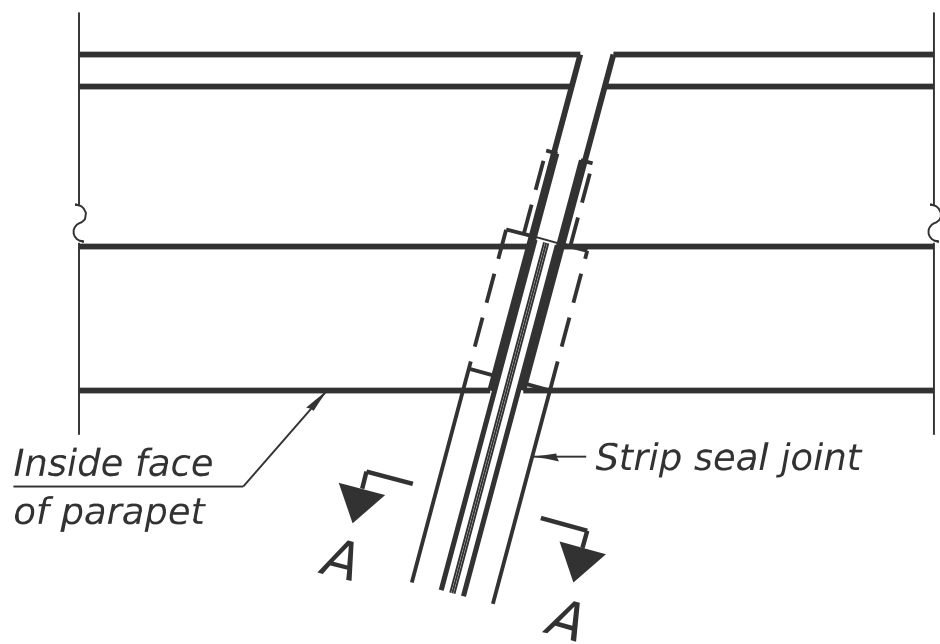
Fiberglass pipe shall conform to ASTM D2996, with short-time rupture strength hoop tensile stress of 30,000 p.s.i. minimum.

The exterior surfaces of the floor drains shall be painted according to Article 506 with the finish coat as specified. The exterior surfaces of the drains shall be cleaned according to the Society of Protective Coating's Spec. SSPC-SP1 prior to painting.

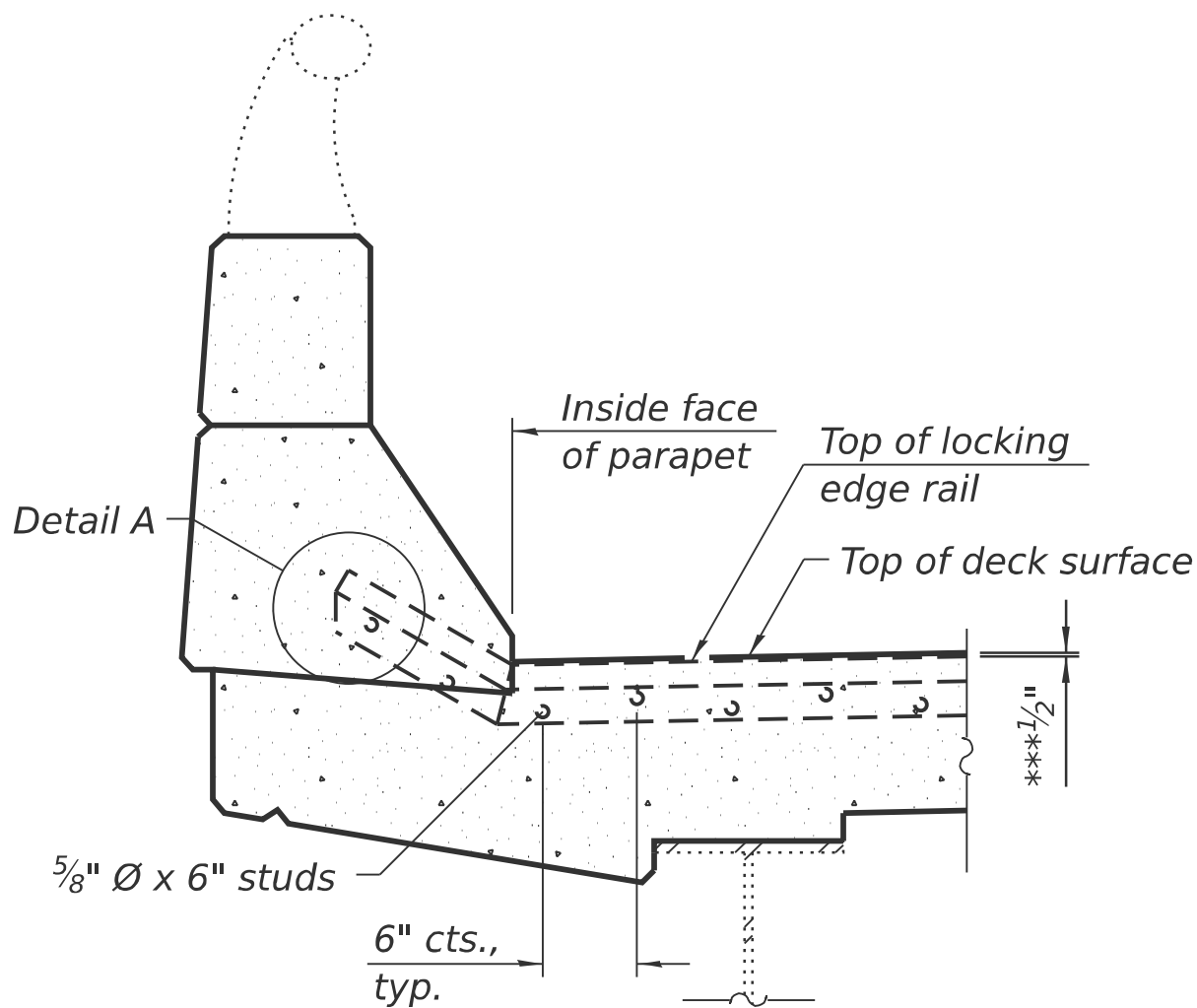
The top portion of aluminum floor drains shall be coated with 5 mils of either bitumen paint or epoxy paint to minimize reaction with wet concrete.

The clamping device shall be galvanized according to AASHTO M 232. Cost of clamping device included with Floor Drains.

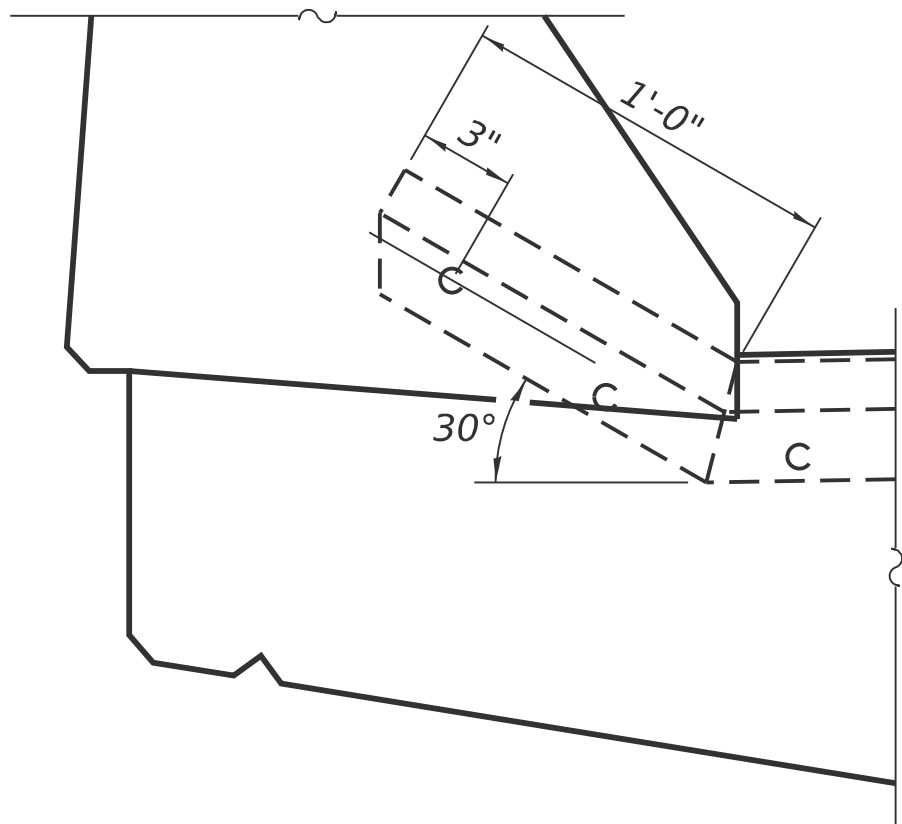




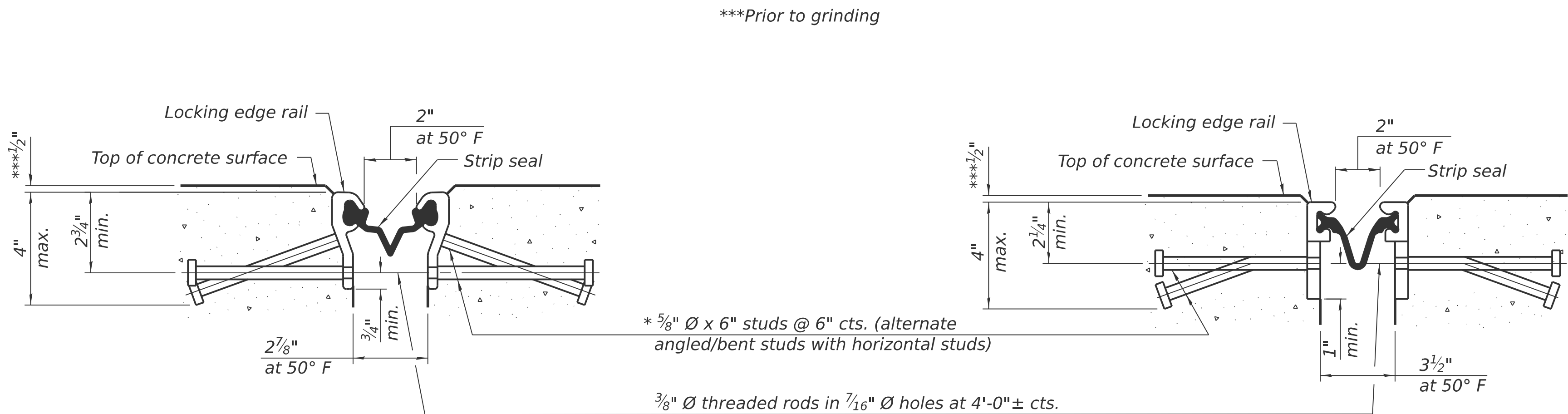
FOR SKEWS ≤ 30°
PLAN AT PARAPET



SECTION AT PARAPET



DETAIL A



SHOWING ROLLED RAIL JOINT

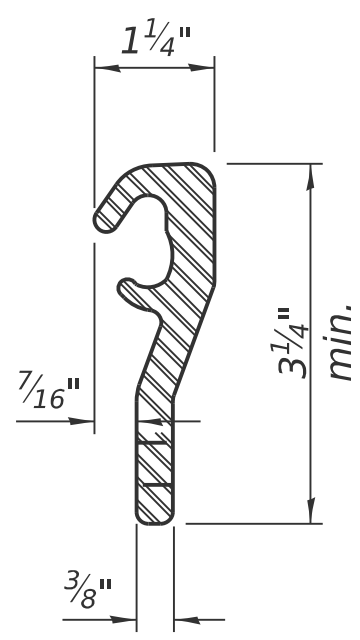
SHOWING WELDED RAIL JOINT

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

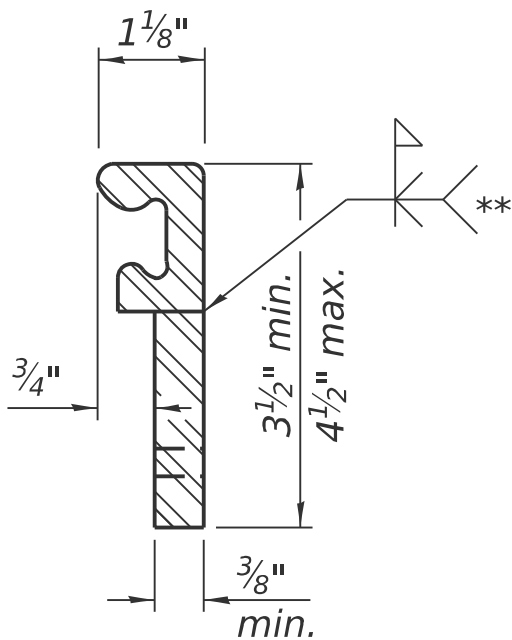
3/8" Ø threaded rods in 7/16" Ø holes at 4'-0" ± cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.

SECTION A-A

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



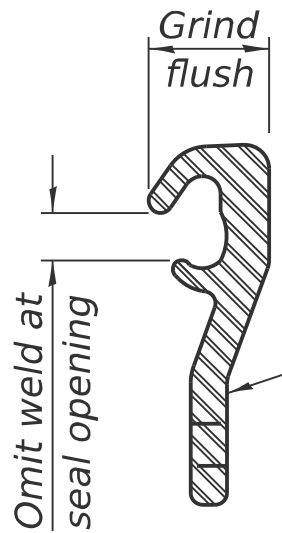
ROLLED (EXTRUDED) RAIL



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.

SN 058-0070 & SN 058-0071

BILL OF MATERIAL

Item	Unit	Quantity
Preformed Joint Strip Seal	Foot	188

Notes:

The strip seal shall be made continuous and shall have a minimum thickness of 1/4". The configuration of the strip seal shall match the configuration of the locking edge rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.

The locking edge rails depicted are configured for typical applications and are conceptual only. The actual configuration of the locking edge rails and matching strip seal may vary from manufacturer to manufacturer provided they fit the application and meet the minimum anchorage shown. Flanged edge rails, however, will not be allowed. Locking edge rails may exceed the 4 1/2" maximum depth provided the anchorage system is revised according to the manufacturer's recommendation.

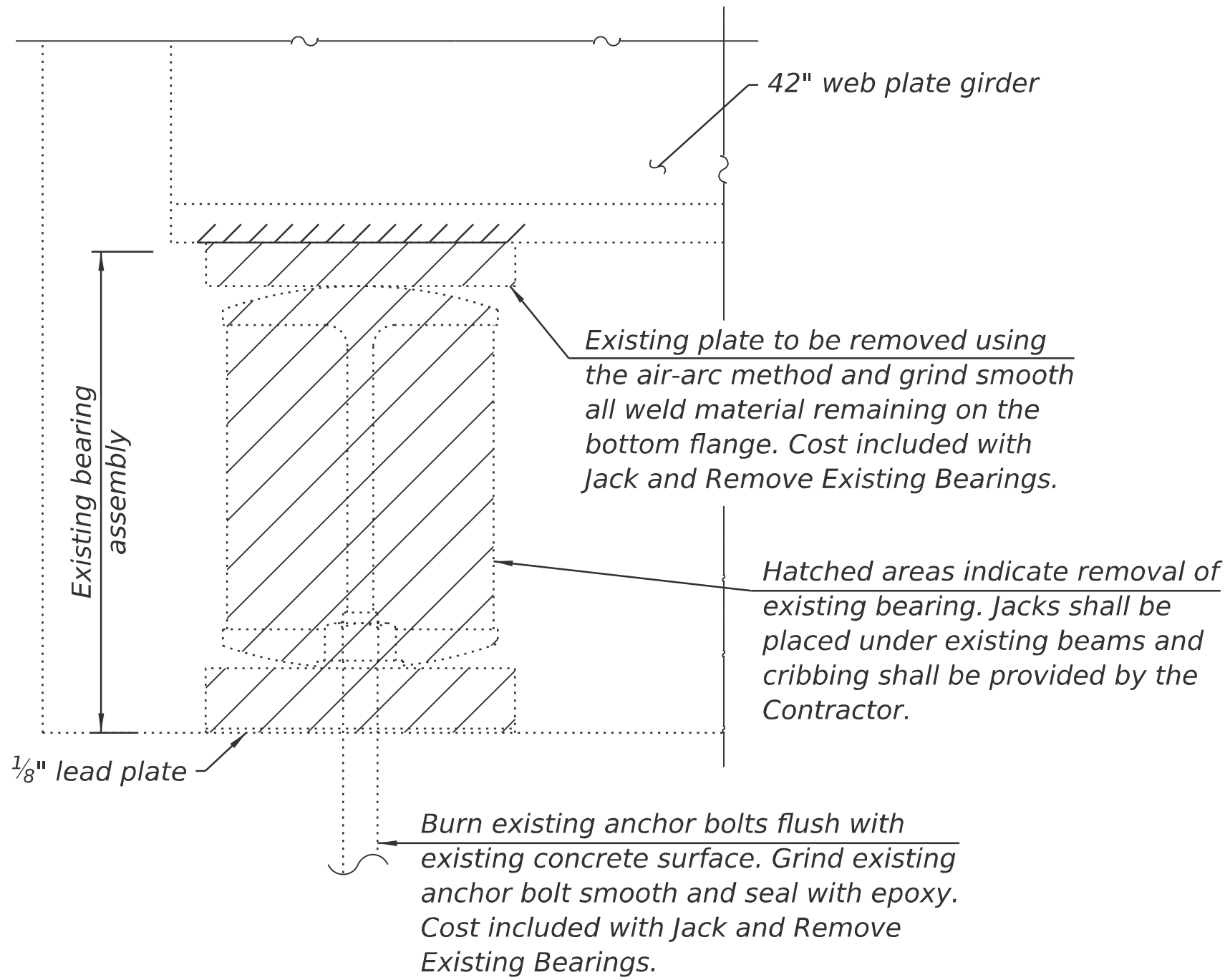
The manufacturer's recommended installation methods shall be followed.

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

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

The 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.





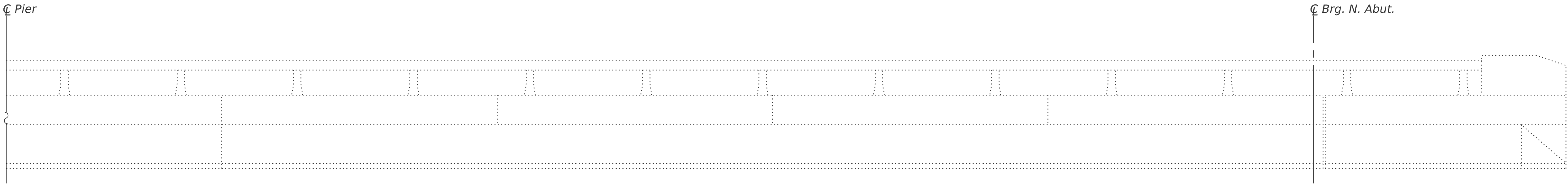
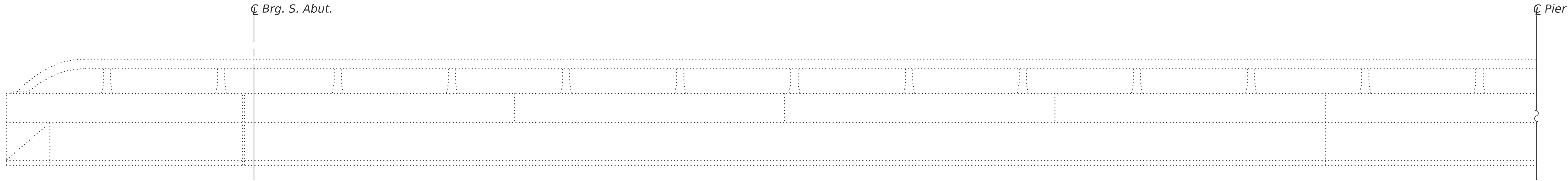
EXISTING BEARING REMOVAL DETAIL

Notes:
Prior to ordering any material, the Contractor shall verify in the field all bearing height and shim thickness dimensions.
Side retainers and stainless steel plates shall be included in the cost of Elastomeric Bearing Assembly, Type I.
The cost of new steel extensions, shim plates, connection bolts through the girder flanges, and field drilling holes in the girder bottom flanges are included with Furnishing and Erecting Structural Steel.
Minimum jack capacity = 70 Ton.
Two 1/8 inch adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.
Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.
For layout of side retainers, see Abutment Repairs Sheets 22 and 23 of 36.

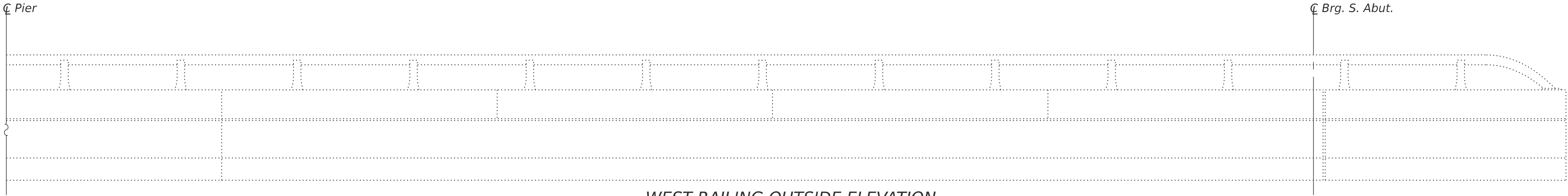
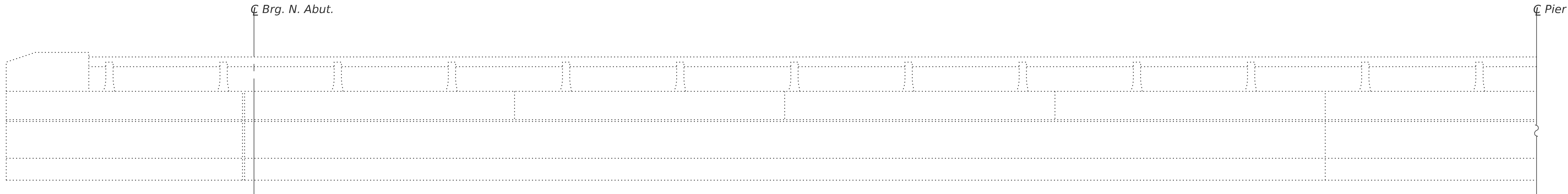
SN 058-0070 & SN 058-0071
BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly, Type I	Each	28
Anchor Bolts, 1"	Each	48
Jack and Remove Existing Bearings	Each	28
Furnishing and Erecting Structural Steel	Pound	5,881

MODEL: Sheet
FILE NAME: Y:\DOT11445-01_Z4D08\74D08 DESIGN\CADD\SP SN 058-0070-0071\Common Sheets\0580070-D774D08-17-BearingDtls.dgn

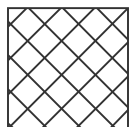


WEST RAILING INSIDE ELEVATION



WEST RAILING OUTSIDE ELEVATION

LEGEND

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

(Sheet 1 of 4)

MODEL: Sheet
FILE NAME: Y:\DOT11445-01_74D08\74D08 DESIGN\CADD\SP SN 058-0070-0071\Common Sheets\0580070-D774D08-18-ParapetRepairs(WB).dgn



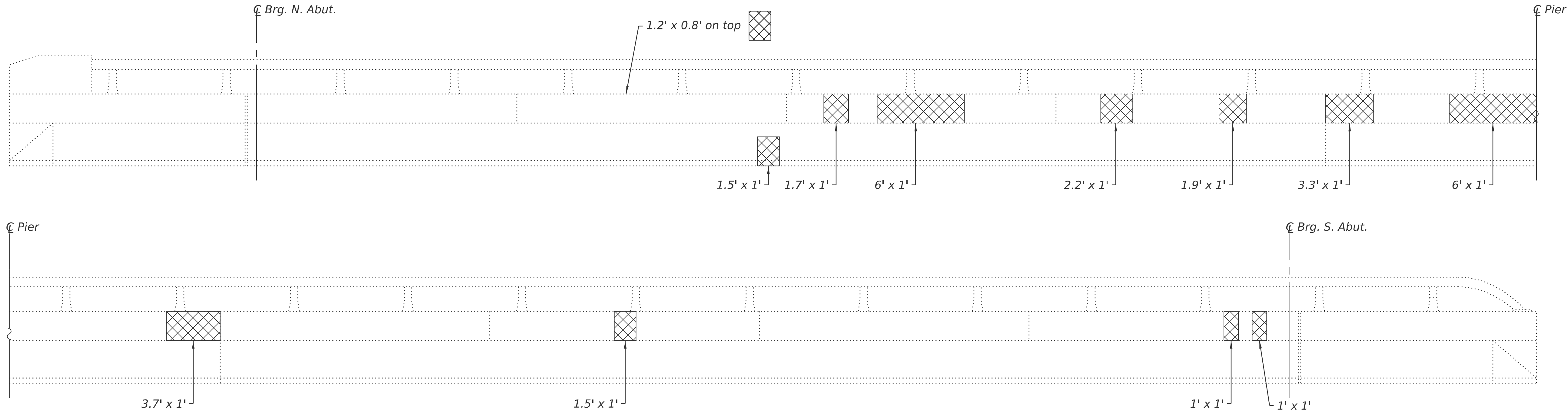
USER NAME = nhc	DESIGNED - ELH 07/25	REVISED -
ESCA PROJECT NO. = 1445.01	CHECKED - RDP 07/25	REVISED -
PLOT SCALE = 0.2 '"/ in.	DRAWN - ZTC 07/25	REVISED -
PLOT DATE = 1/20/2026	CHECKED - ELH 07/25	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

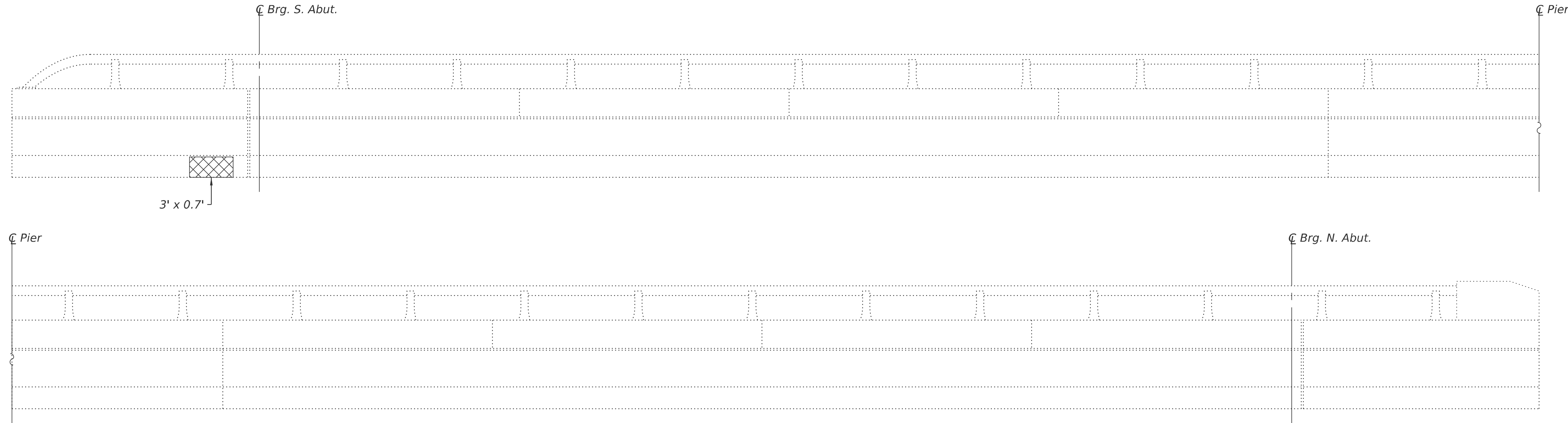
PARAPET REPAIRS
SN 058-0070 (WB)

SHEET 18 OF 36 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	D7 BRIDGE REPAIRS 2026-3	MACON	108	90
CONTRACT NO. 74D08				
		ILLINOIS	FED. AID PROJECT	



EAST RAILING INSIDE ELEVATION



EAST RAILING OUTSIDE ELEVATION

LEGEND

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

SN 058-0070 BILL OF MATERIAL

Item	Unit	Quantity
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	Sq. Ft.	32.9

(Sheet 2 of 4)

MODEL: Sheet
FILE NAME: Y:\DOT11445-01_74D08\74D08 DESIGN\CADD\SP SN 058-0070-0071\Common Sheets\0580070-D774D08-19-ParapetRepairs(WB).dgn



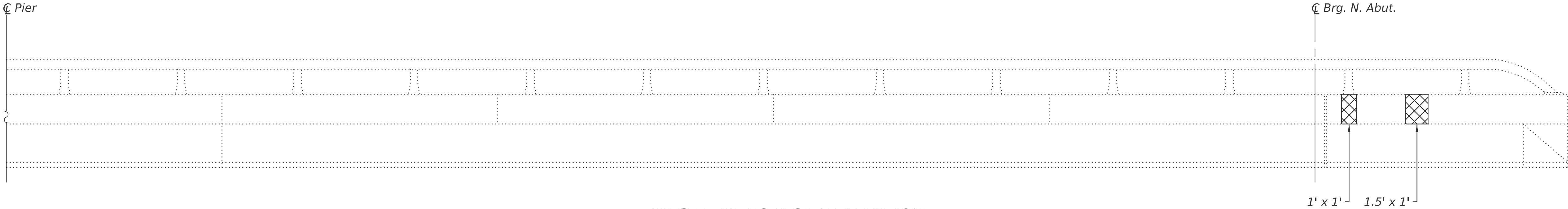
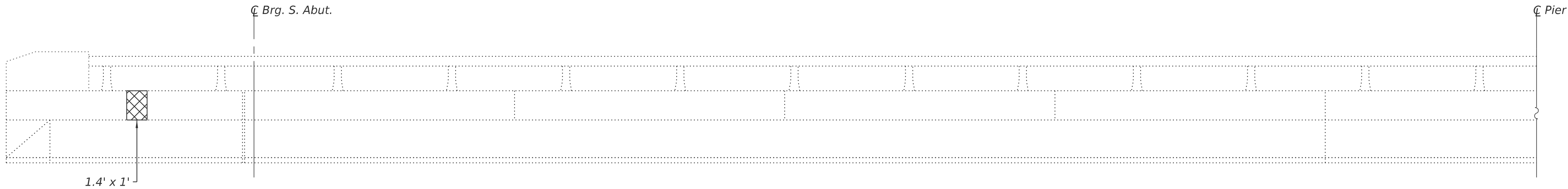
USER NAME = nhc	DESIGNED - ELH 07/25	REVISED -
ESCA PROJECT NO. = 1445.01	CHECKED - RDP 07/25	REVISED -
PLOT SCALE = 0.2'"/in.	DRAWN - ZTC 07/25	REVISED -
PLOT DATE = 1/20/2026	CHECKED - ELH 07/25	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

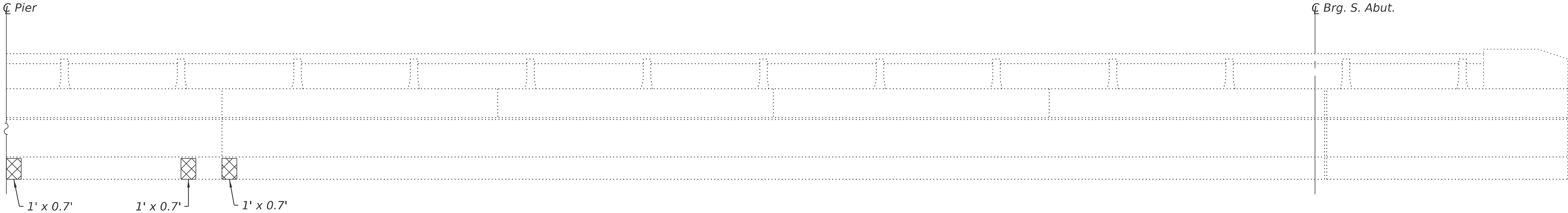
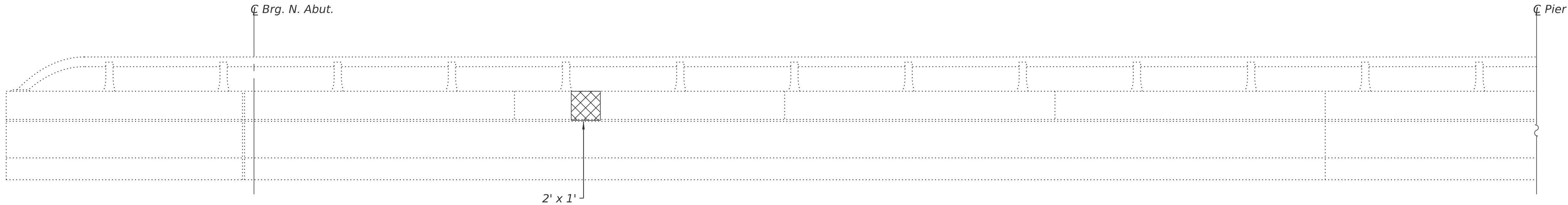
PARAPET REPAIRS
SN 058-0070 (WB)

SHEET 19 OF 36 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	D7 BRIDGE REPAIRS 2026-3	MACON	108	91
CONTRACT NO. 74D08				
		ILLINOIS	FED. AID PROJECT	

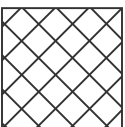


WEST RAILING INSIDE ELEVATION



WEST RAILING OUTSIDE ELEVATION

LEGEND

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

(Sheet 3 of 4)

MODEL: Sheet
FILE NAME: Y:\DOT11445-01_74D08\74D08 DESIGN\CADD\SP SN 058-0071\Common Sheets\0580070-D774D08-20-ParapetRepairs(EB).dgn



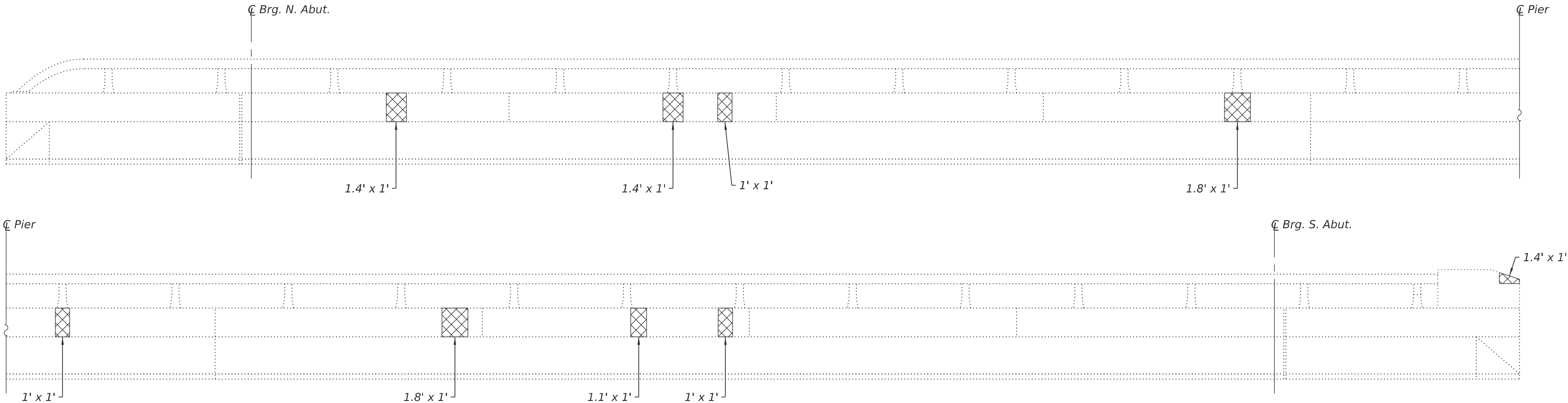
USER NAME = nhc	DESIGNED - ELH 07/25	REVISED -
ESCA PROJECT NO. = 1445.01	CHECKED - RDP 07/25	REVISED -
PLOT SCALE = 0.2 '"/in.	DRAWN - ZTC 07/25	REVISED -
PLOT DATE = 1/20/2026	CHECKED - ELH 07/25	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

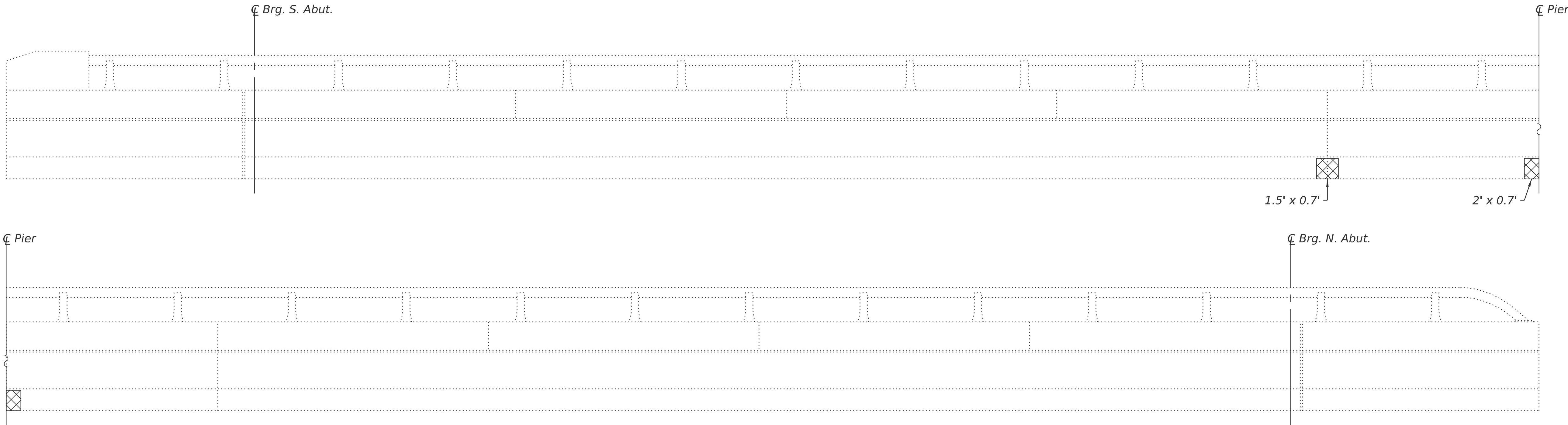
PARAPET REPAIRS
SN 058-0071 (EB)

SHEET 20 OF 36 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	D7 BRIDGE REPAIRS 2026-3	MACON	108	92
CONTRACT NO. 74D08				
		ILLINOIS	FED. AID PROJECT	

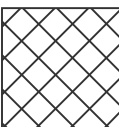


EAST RAILING INSIDE ELEVATION



EAST RAILING OUTSIDE ELEVATION

LEGEND

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

SN 058-0071 BILL OF MATERIAL

Item	Unit	Quantity
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	Sq. Ft.	22.4

(Sheet 4 of 4)

MODEL: Sheet
FILE NAME: Y:\DOT11445-01_74D08\74D08 DESIGN\CADD\SP SN 058-0071\1Common Sheets\0580070-D774D08-21-ParapetRepairs(EB).dgn



USER NAME = nhc	DESIGNED - ELH 07/25	REVISED -
ESCA PROJECT NO. = 1445.01	CHECKED - RDP 07/25	REVISED -
PLOT SCALE = 0.2" / in.	DRAWN - ZTC 07/25	REVISED -
PLOT DATE = 1/20/2026	CHECKED - ELH 07/25	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

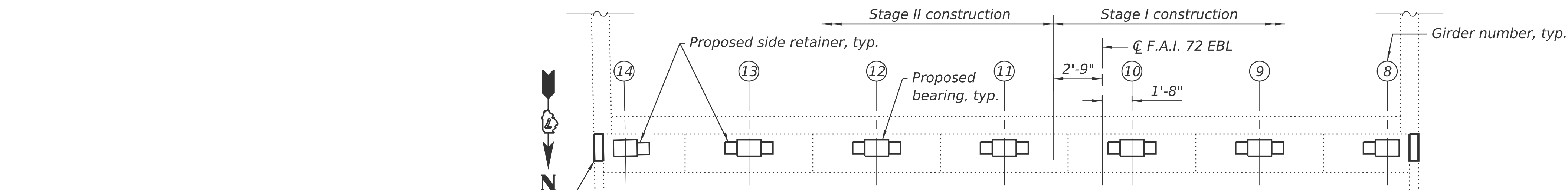
PARAPET REPAIRS
SN 058-0071 (EB)

SHEET 21 OF 36 SHEETS

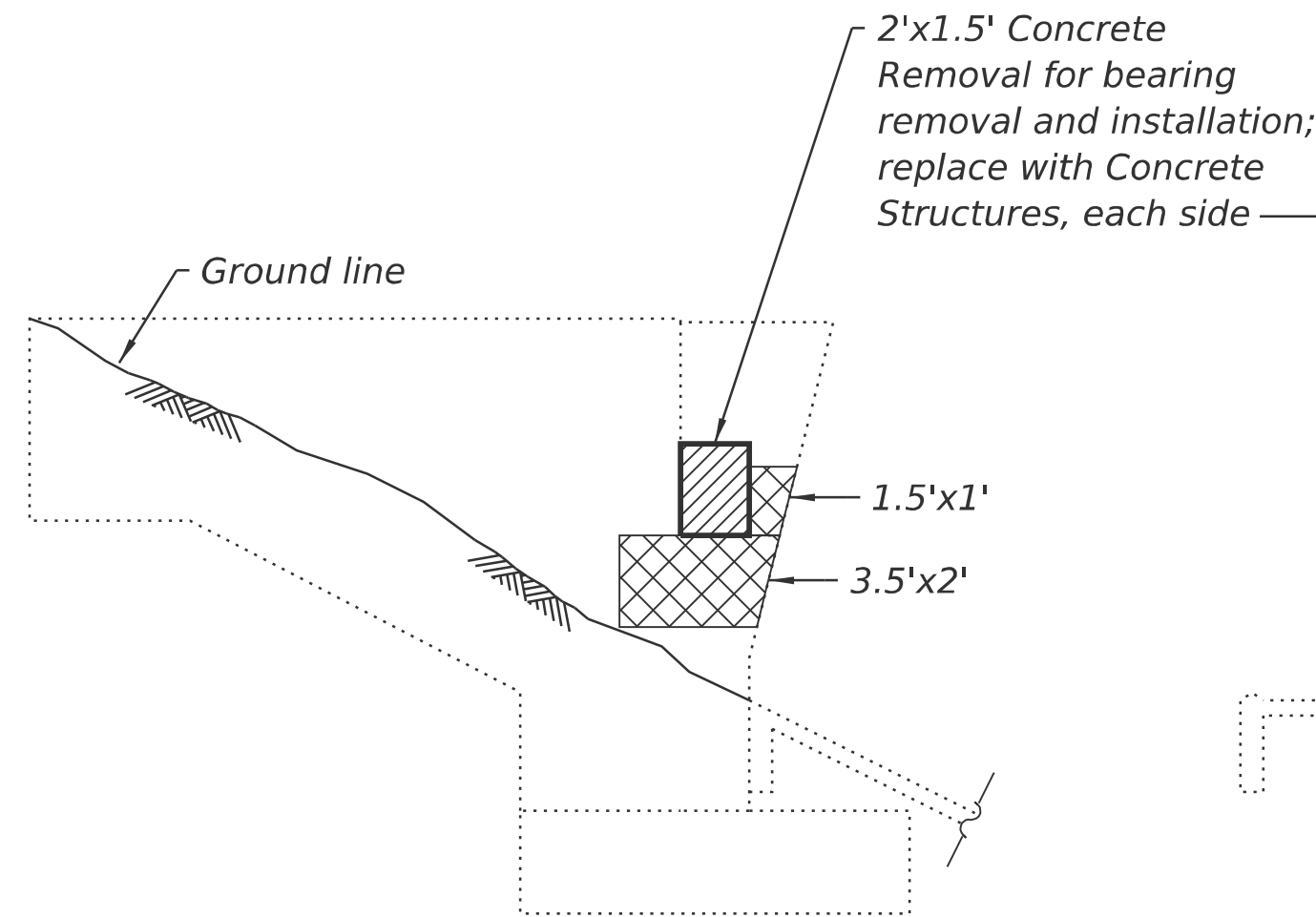
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	D7 BRIDGE REPAIRS 2026-3	MACON	108	93
CONTRACT NO. 74D08				
		ILLINOIS	FED. AID PROJECT	



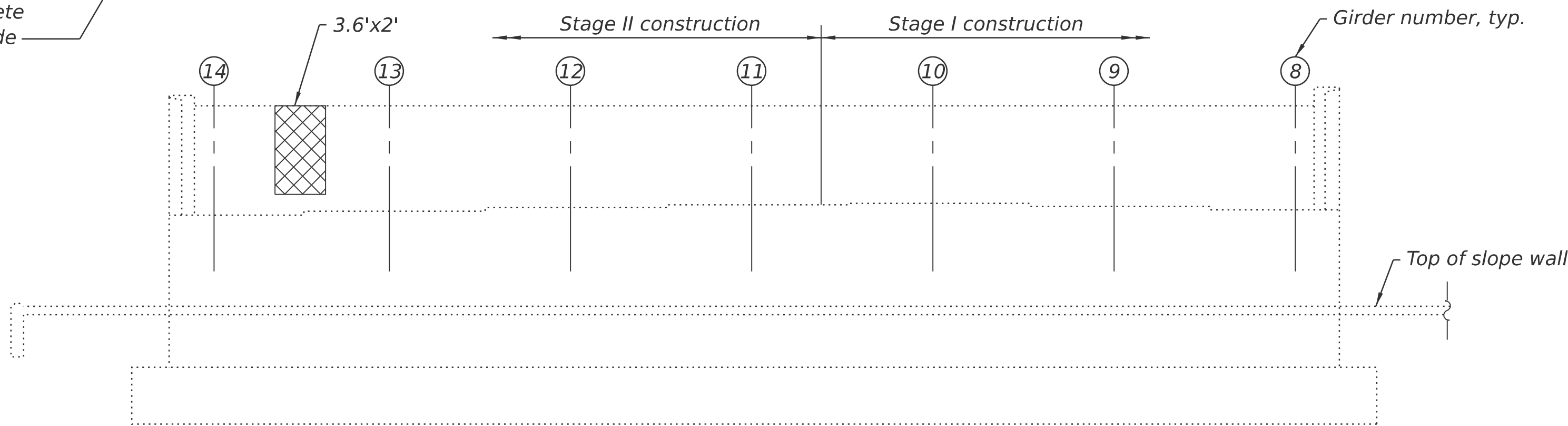
MODEL: Sheet
FILE NAME: Y:\DOT11445-01_Z4D08\74D08 DESIGN\CADD\SP SN 058-0070-0071\Common Sheets\0580070-D774D08-23-AbutRepairs(EB).dgn



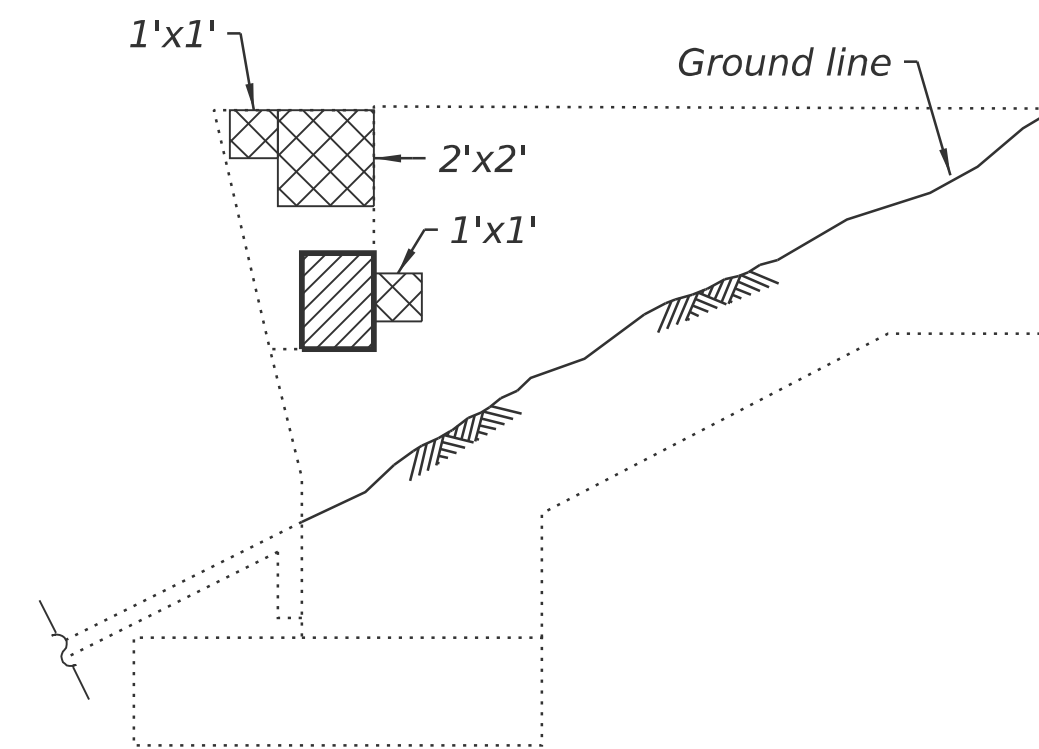
SOUTH ABUTMENT BEARING SEAT PLAN



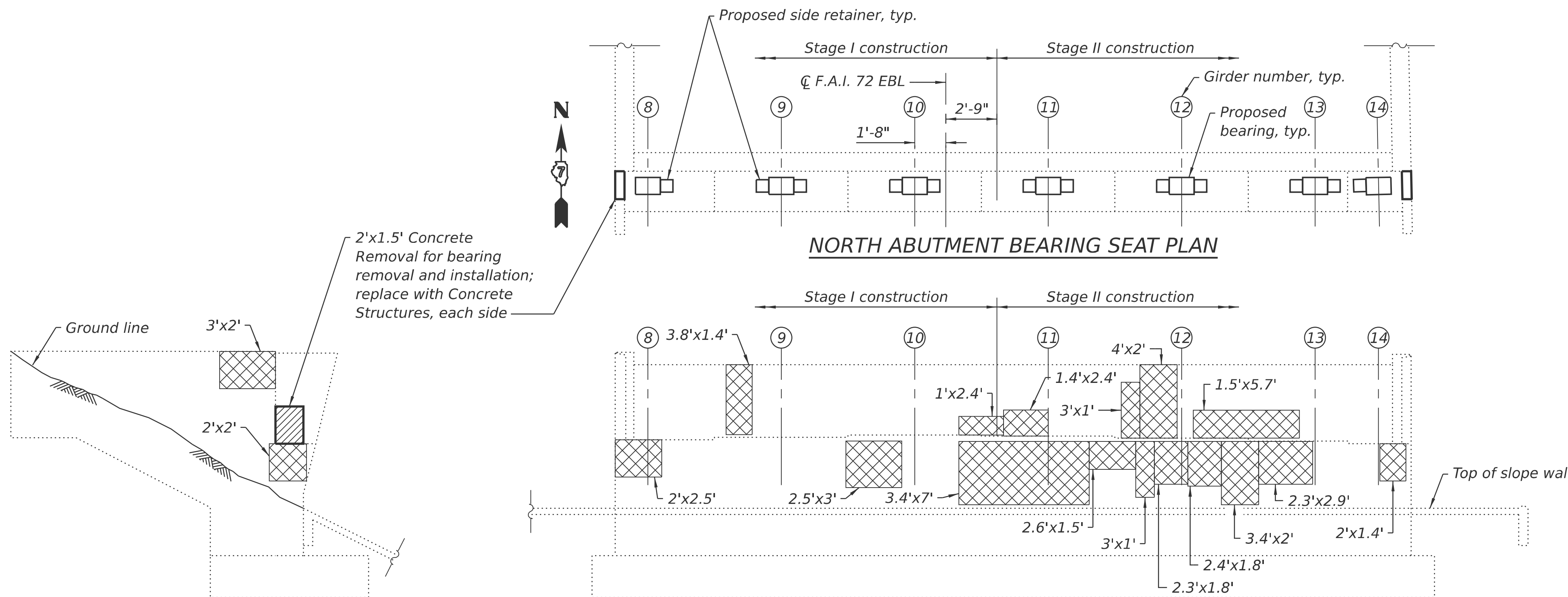
SOUTHEAST WINGWALL



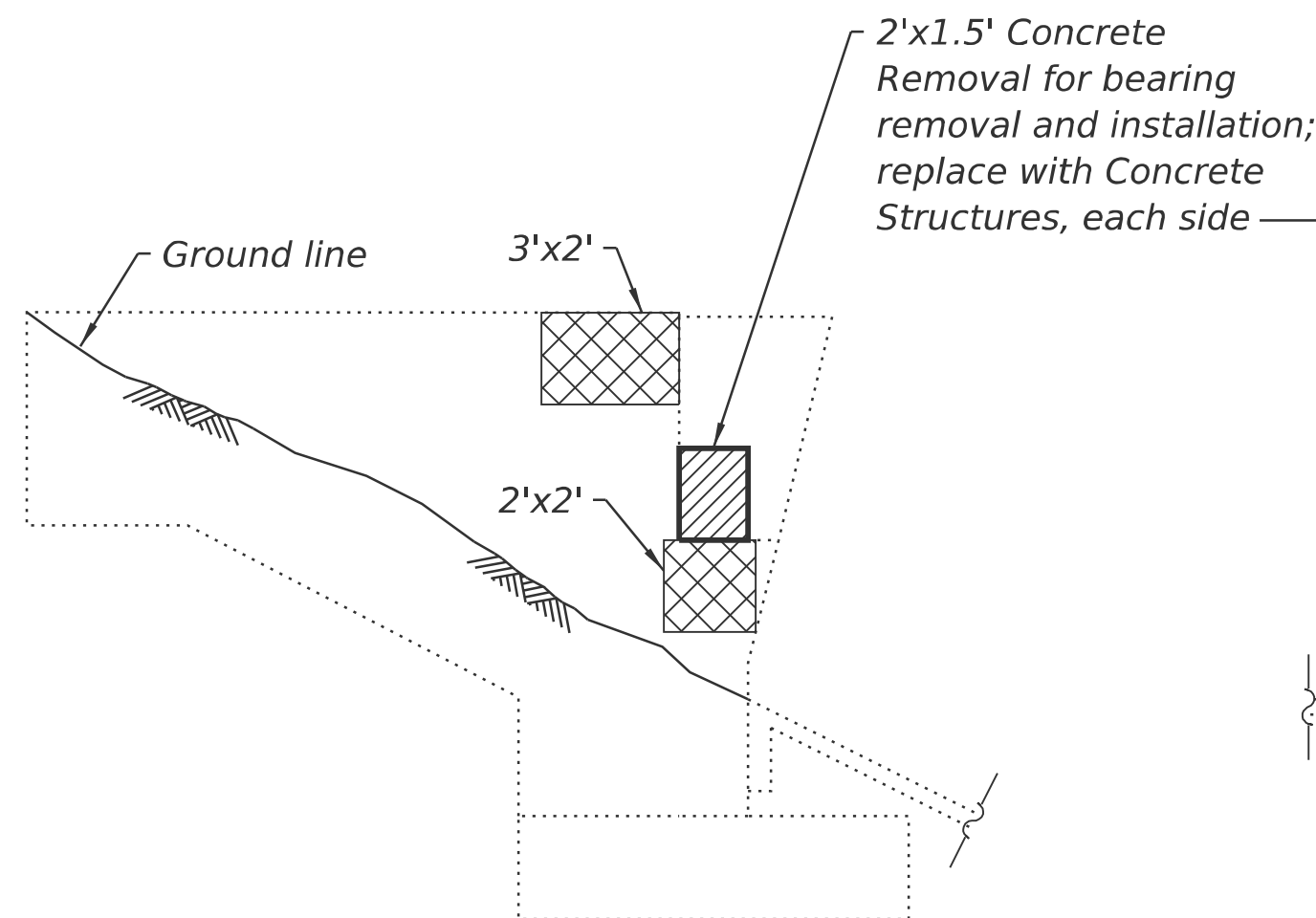
SOUTH ABUTMENT ELEVATION



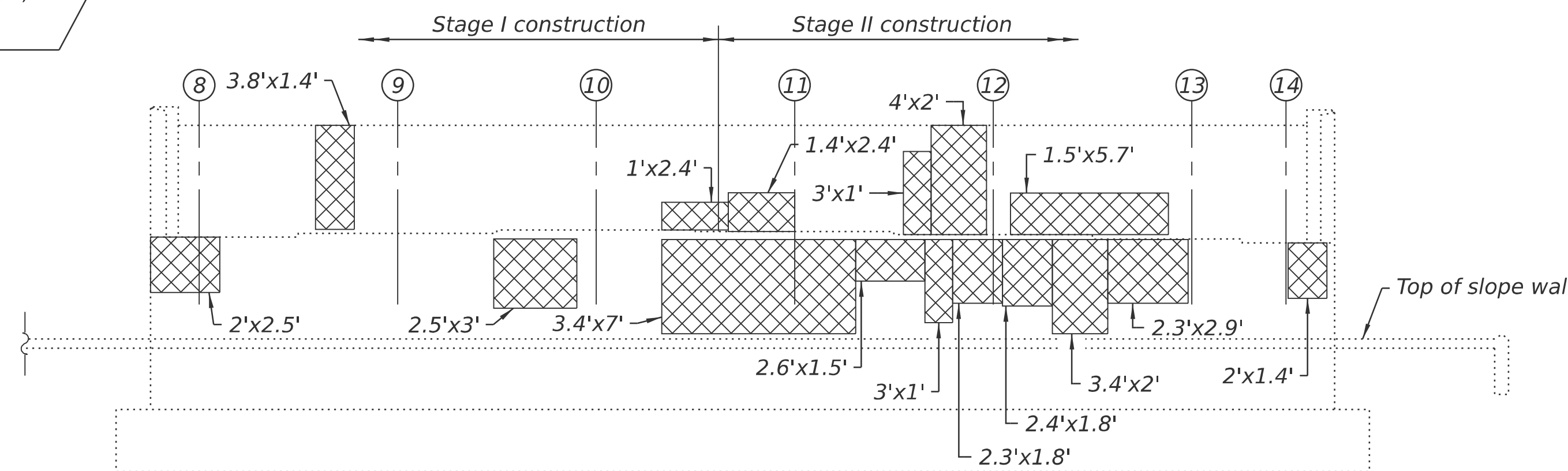
SOUTHWEST WINGWALL



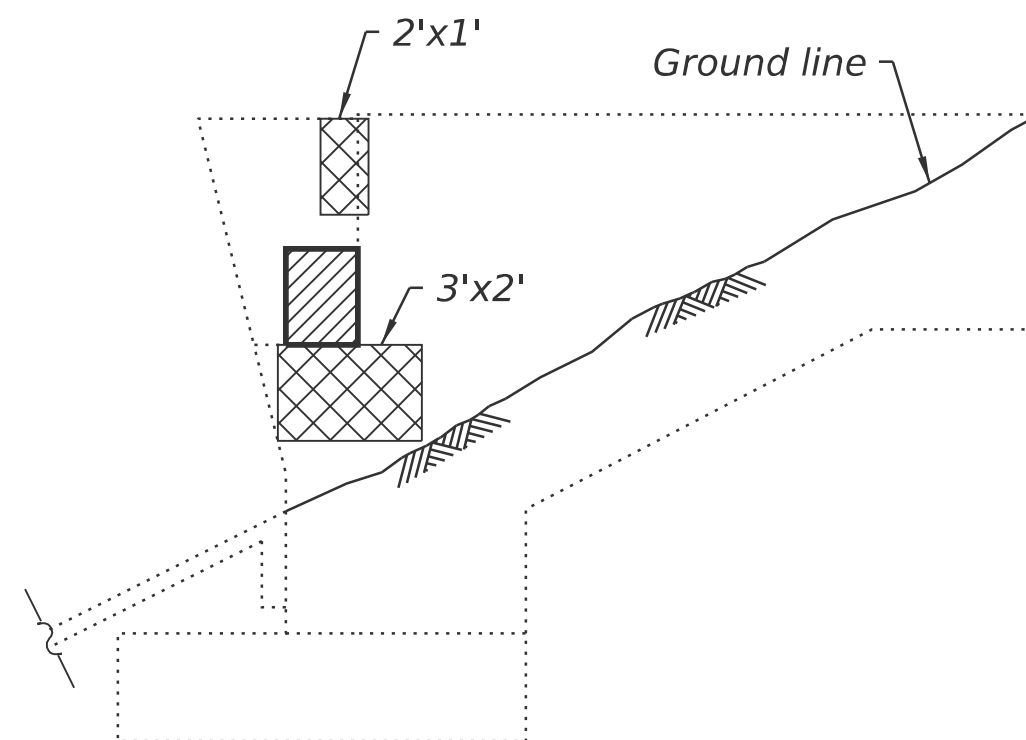
NORTH ABUTMENT BEARING SEAT PLAN



NORTHWEST WINGWALL



NORTH ABUTMENT ELEVATION



NORTHEAST WINGWALL

Note:

1. Abutment repairs shall be staged according to the same dimensions and locations as shown for the superstructure.

LEGEND

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

SN 058-0071 BILL OF MATERIAL

Item	Unit	Quantity
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	Sq. Ft.	138.3
Concrete Removal	Cu. Yd.	0.3
Concrete Structures	Cu. Yd.	0.3

(Sheet 2 of 2)



USER NAME = nhc
ESCA PROJECT NO. = 1445.01
PLOT SCALE = 0.2" / in.
PLOT DATE = 1/20/2026

DESIGNED - ELH 08/25
CHECKED - RDP 08/25
DRAWN - NHC 08/25
CHECKED - ELH 08/25

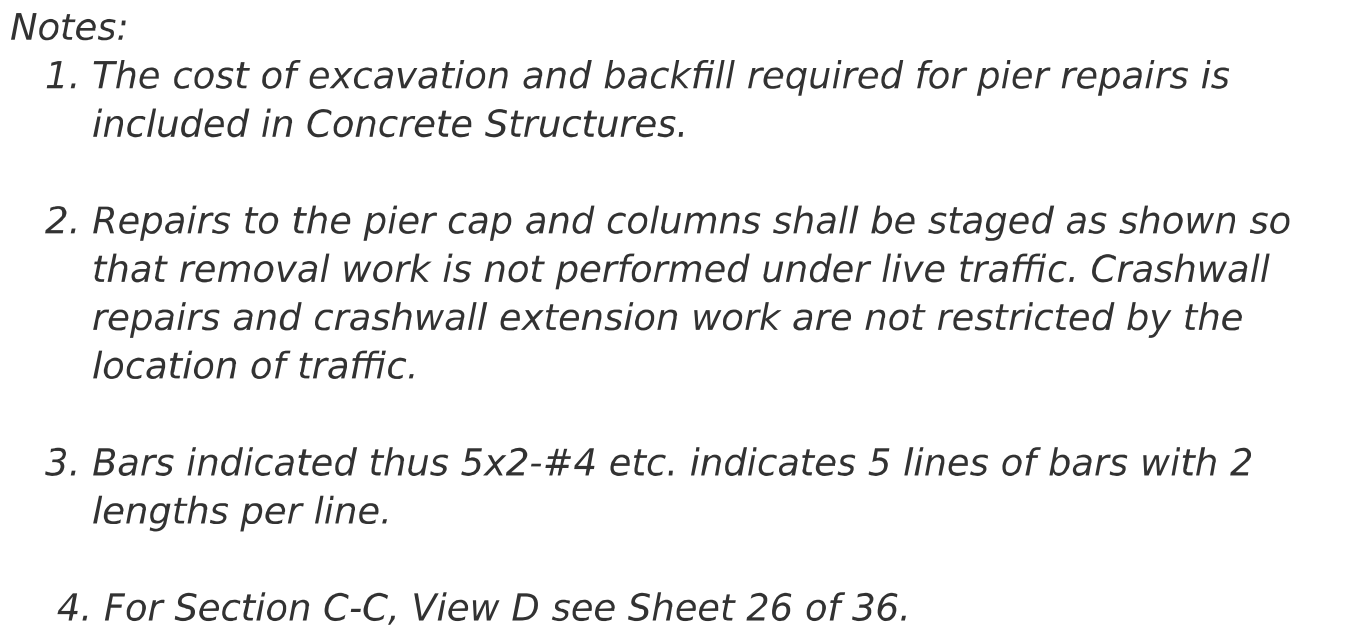
REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

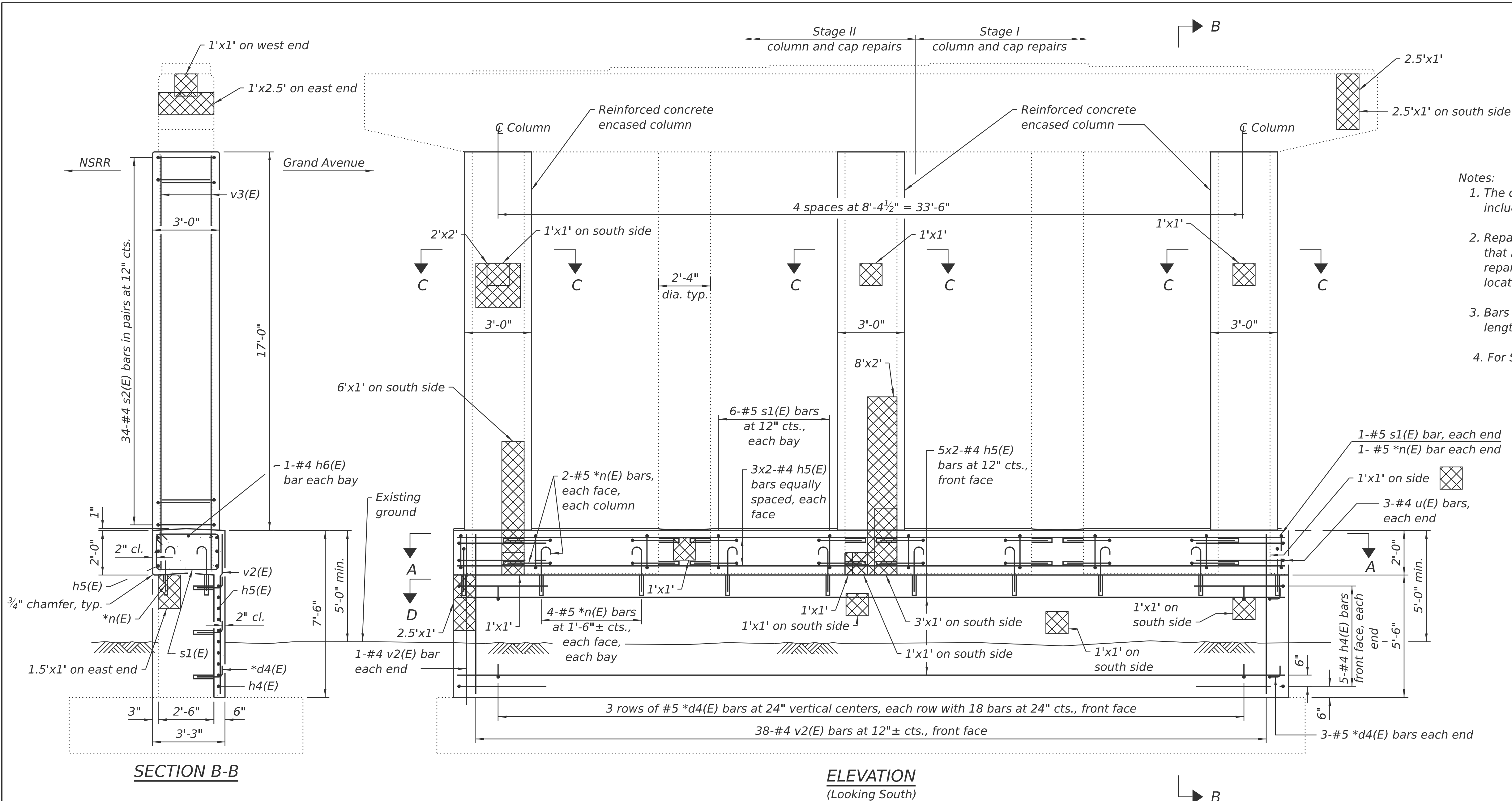
ABUTMENT REPAIRS
SN 058-0071 (EB)

SHEET 23 OF 36 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	D7 BRIDGE REPAIRS 2026-3	MACON	108	95
CONTRACT NO. 74D08				
ILLINOIS FED. AID PROJECT				



MODEL: Sheet
FILE NAME: Y:\DOT11445-01_74D08\74D08 DESIGN\CADD\SP SN 058-0070-0071\Common Sheets\0580070-D774D08-25-PierRepairs(EB).dgn



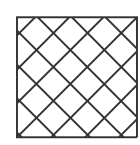
- Notes:
1. The cost of excavation and backfill required for pier repairs is included in Concrete Structures.
 2. Repairs to the pier cap and columns shall be staged as shown so that removal work is not performed under live traffic. Crashwall repairs and crashwall extension work are not restricted by the location of traffic.
 3. Bars indicated thus 5x2-#4 etc. indicates 5 lines of bars with 2 lengths per line.
 4. For Section C-C, View D see Sheet 26 of 36.

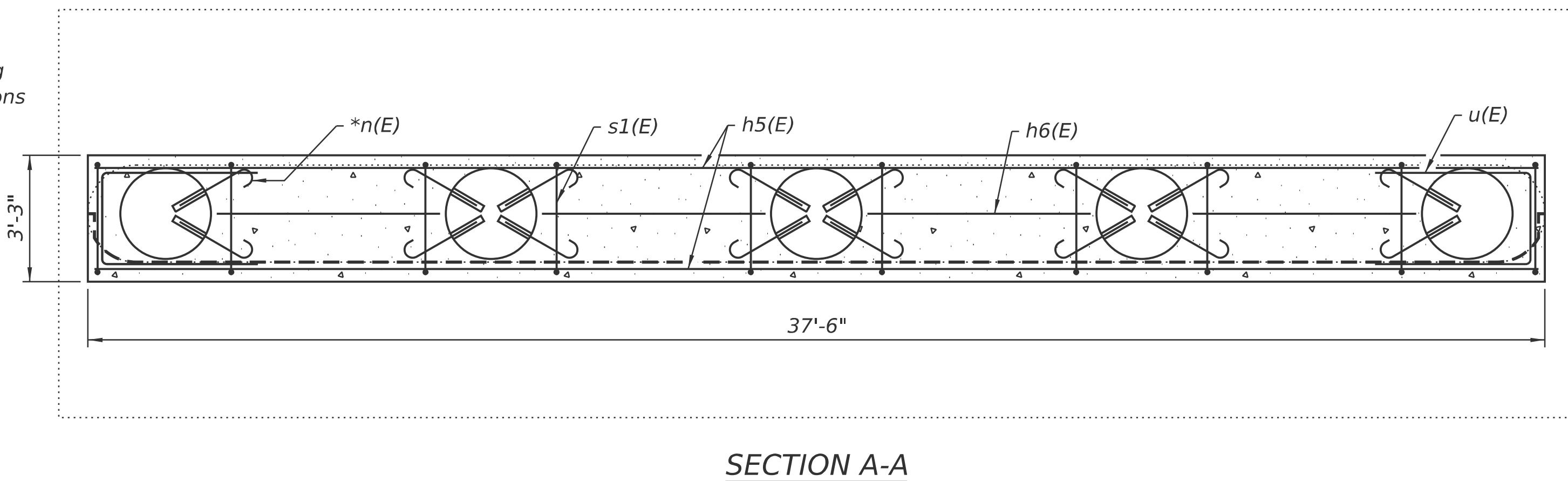
*Epoxy grout n(E) and d4(E) bars in 9" min. holes according to Article 584 of the Standard Specifications. Adjust locations to clear existing reinforcement. Cost is included in Reinforcement Bars, Epoxy Coated.

MINIMUM BAR LAP

#4 bar = 2'-0"

LEGEND

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



SN 058-0071 BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d4(E)	60	#5	1'-7"	
h4(E)	10	#4	4'-8"	
h5(E)	22	#4	19'-9"	
h6(E)	4	#4	5'-9"	
n(E)	66	#5	2'-7"	
s1(E)	26	#5	9'-11"	
s2(E)	102	#4	7'-7"	
u(E)	6	#4	10'-10"	
v2(E)	40	#4	7'-2"	
v3(E)	36	#4	18'-7"	
Concrete Structures			Cu. Yd.	21.3
Reinforcement Bars, Epoxy Coated			Pound	2,090
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)			Sq. Ft.	52.5

(Sheet 2 of 3)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER REPAIRS
SN 058-0071 (EB)

SHEET 25 OF 36 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	D7 BRIDGE REPAIRS 2026-3	MACON	108	97
CONTRACT NO. 74D08				
ILLINOIS FED. AID PROJECT				



USER NAME = nhc
ESCA PROJECT NO. = 1445.01
PLOT SCALE = 0.2" = 1' / in.
PLOT DATE = 1/20/2026

DESIGNED - ELH 08/25
CHECKED - RDP 08/25
DRAWN - NHC 08/25
CHECKED - ELH 08/25

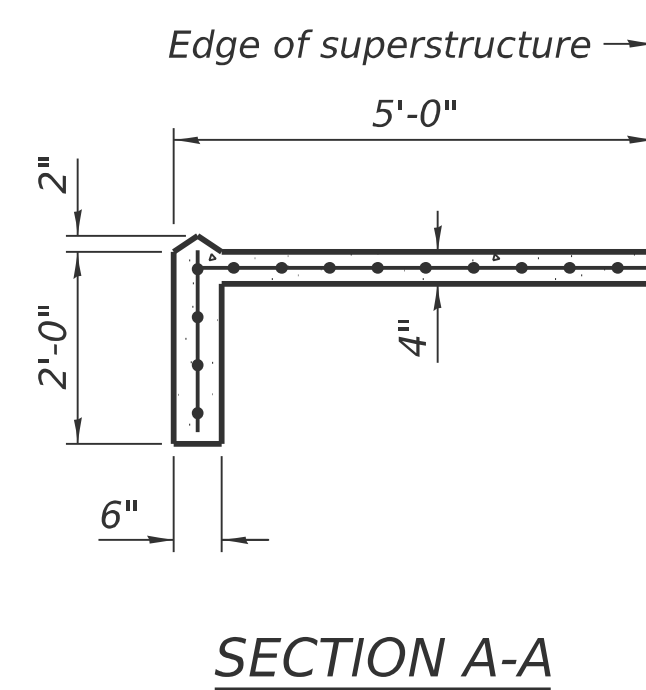
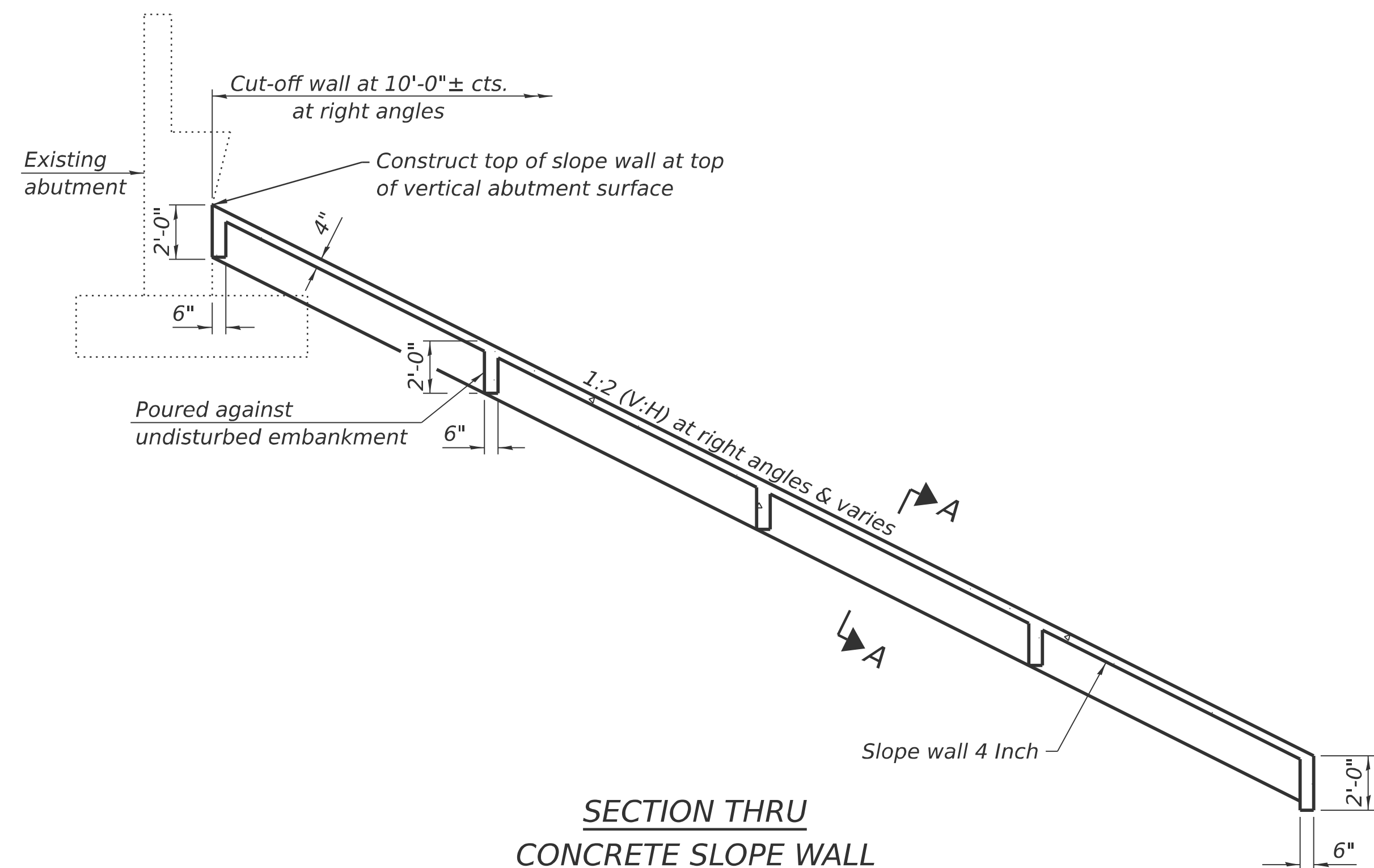
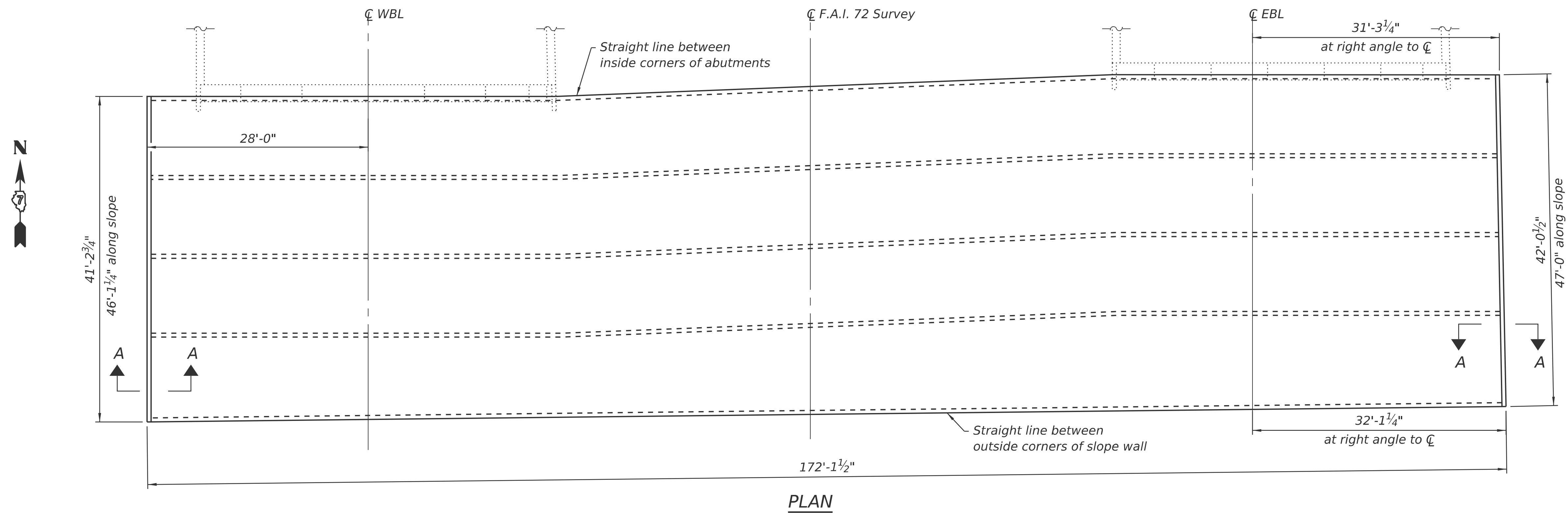
REVISED -
REVISED -
REVISED -
REVISED -



BAR $h_4(E)$



F.A.I. RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
72	D7 BRIDGE REPAIRS 2026-3		MACON	108	98
			CONTRACT NO. 74D08		
		ILLINOIS	FED. AID PROJECT		



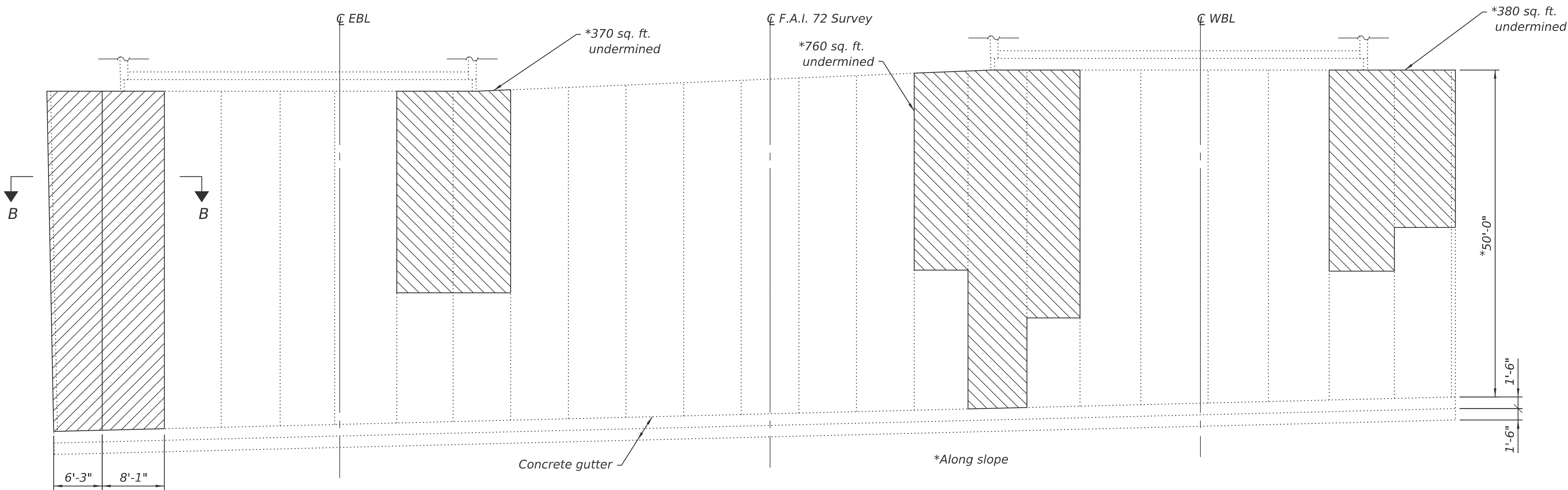
Notes:

1. *The entire concrete slope wall shall be removed and paid for as Slope Wall Removal.*
2. *Unsuitable embankment material shall be removed as directed by the Engineer. The removal will be paid for as Removal and Disposal of Unsuitable Materials. The embankment shall be reconstructed with Subbase Granular Material, Type B. The Subbase Granular Material shall be gradation CA6 unless otherwise specified by the Engineer.*
3. *Slope wall shall be reinforced with welded wire fabric, 6 in. x 6 in.-W4.0 x W4.0, weighing 58 lbs. per 100 sq. ft.*

SN 058-0070 & SN 058-0071
BILL OF MATERIAL

<i>Item</i>	<i>Unit</i>	<i>Quantity</i>
<i>Slope Wall Removal</i>	<i>Sq. Yd.</i>	<i>896</i>
<i>Protective Coat</i>	<i>Sq. Yd.</i>	<i>888</i>
<i>Slope Wall 4 Inch</i>	<i>Sq. Yd.</i>	<i>888</i>
<i>Subbase Granular Material, Type B</i>	<i>Ton</i>	<i>200</i>
<i>Removal and Disposal of Unsuitable Material</i>	<i>Cu. Yd.</i>	<i>40</i>

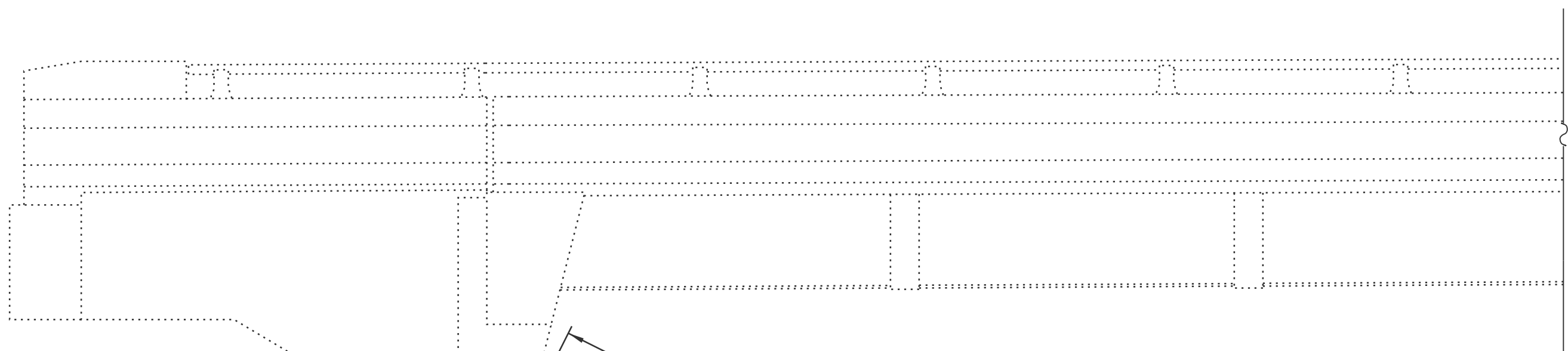
MODEL: Sheet
FILE NAME: Y:\DOT11445-01_74D08\74D08 DESIGN\CADD\SP SN 058-0070-0071\Common Sheets\0580070-D774D08-28-SlopeWallRepair.dgn



PLAN

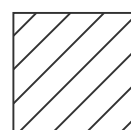
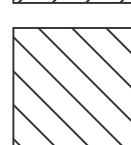
Notes:

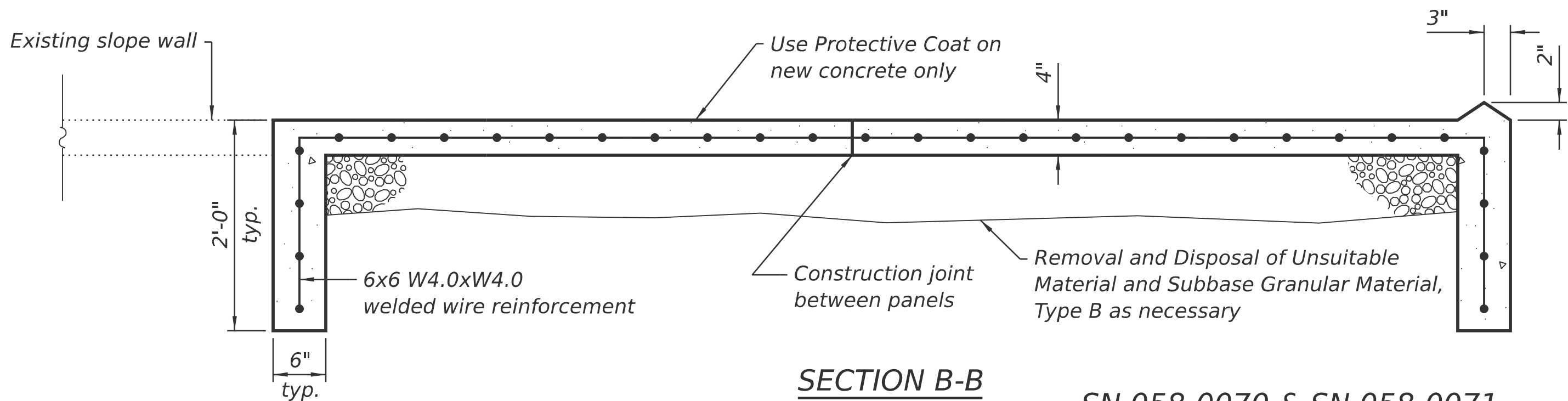
1. Prior to partial removal of slope wall, a $\frac{3}{4}$ " deep saw cut shall be made along all boundaries of the removal areas. Saw cuts will be included in the cost of Slope Wall Repair.
2. Unsuitable embankment material shall be removed as directed by the Engineer. The removal will be paid for as Removal and Disposal of Unsuitable Materials. In these areas the embankment shall be reconstructed with Subbase Granular Material, Type B. The Subbase Granular Material shall be gradation CA6 unless otherwise specified by the Engineer.
3. At locations where the concrete slope wall is still intact but has been undermined, Slope Wall Slurry Pumping shall be used to replace the base under the existing slope wall.
4. Quantities and locations are approximated. Actual quantities and locations are to be determined in the field by the Engineer. This work is intended to repair only areas of severe deterioration. Some minor deteriorated areas may be left unrepaired.



ELEVATION VIEW
(Showing Slope Wall Repair)

LEGEND

-  Slope Wall Repair
-  Slope Wall Slurry Pumping



SECTION B-B

SN 058-0070 & SN 058-0071

BILL OF MATERIAL

Item	Unit	Quantity
Slope Wall Repair	Sq. Yd.	80
Slope Wall Slurry Pumping	Cu. Yd.	50
Protective Coat	Sq. Yd.	80
Subbase Granular Material, Type B	Ton	55
Removal and Disposal of Unsuitable Material	Cu. Yd.	15



USER NAME = nhc
ESCA PROJECT NO. = 1445.01
PLOT SCALE = 0.2" = 1' / in.
PLOT DATE = 1/20/2026

DESIGNED - ELH 08/25
CHECKED - RDP 08/25
DRAWN - NHC 08/25
CHECKED - ELH 08/25
REVISED -
REVISED -
REVISED -
REVISED -

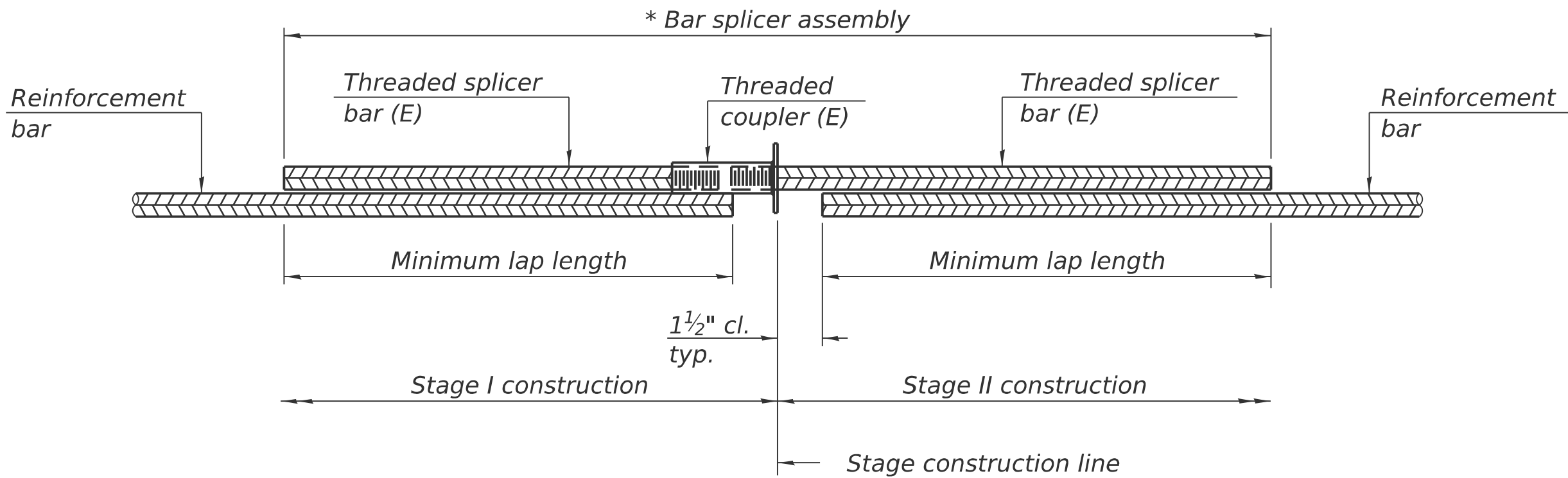
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOUTH SLOPE WALL REPAIRS
SN 058-0070 (WB) & SN 058-0071 (EB)

SHEET 28 OF 36 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	D7 BRIDGE REPAIRS 2026-3	MACON	108	100
CONTRACT NO. 74D08				
ILLINOIS FED. AID PROJECT				

MODEL: Sheet
FILE NAME: Y:\IDOT11445-01_Z4D08\74D08 DESIGN\CADD\SP SN 058-0070-0071\Common Sheets\0580070-D774D08-23-BarSplice.dgn



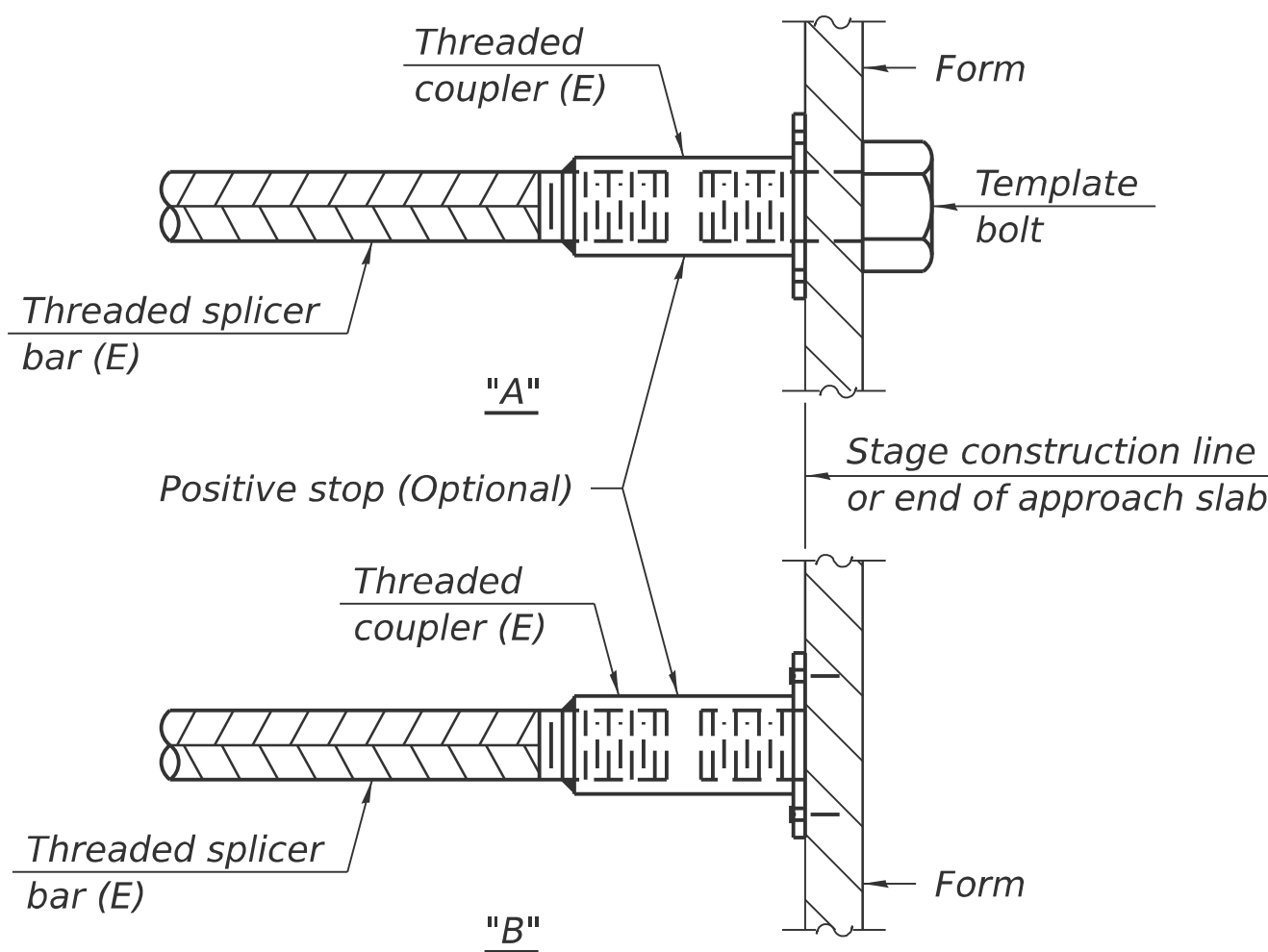
STANDARD BAR SPLICER ASSEMBLY PLAN

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

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

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

Location	Bar size	No. assemblies required	Minimum lap length
SN 058-0070 Spans 1 & 4 slabs	#5	4	3'-5"
SN 058-0070 Spans 2 & 3 deck	#6	16	5'-3"
SN 058-0071 Spans 1 & 4 slabs	#5	4	3'-5"
SN 058-0071 Spans 2 & 3 deck	#6	16	5'-3"

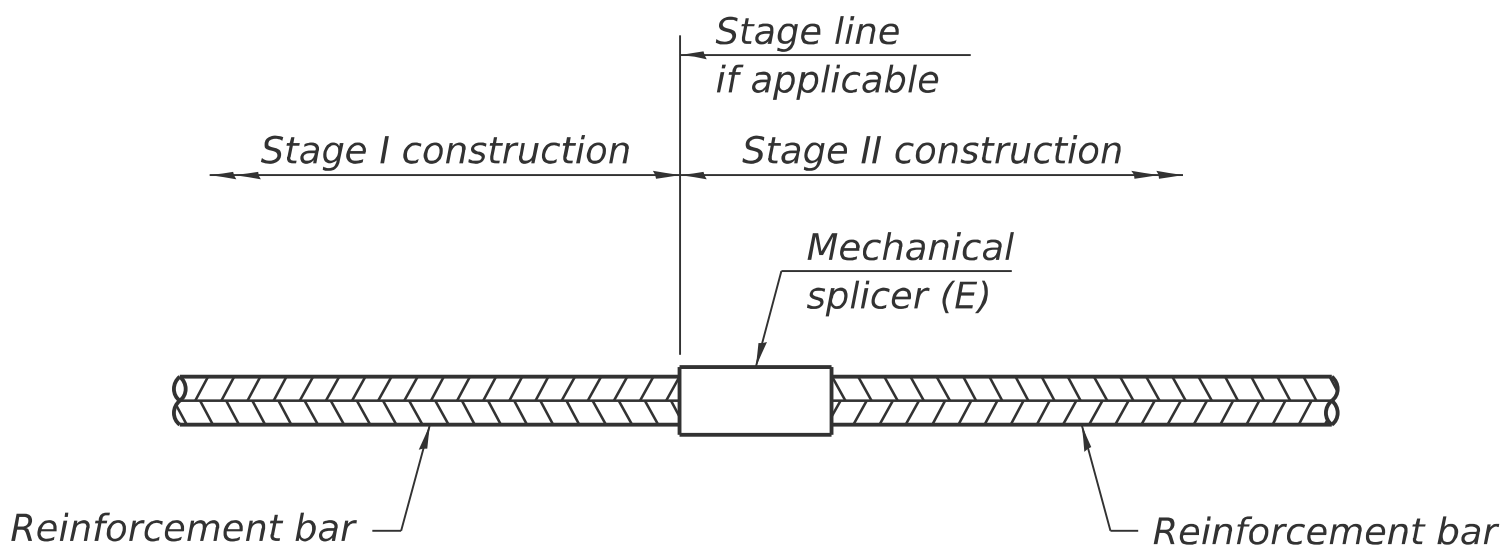


INSTALLATION AND SETTING METHODS

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

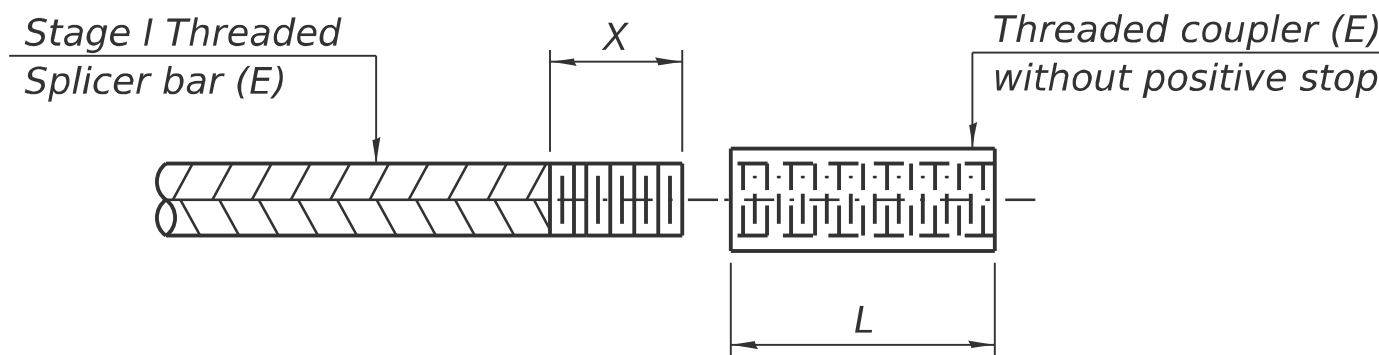
"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

(E) : Indicates epoxy coating.



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required
NA		



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:

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.

All reinforcement shall be lapped and tied to the splicer bars.

Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.

See approved list of bar splicer assemblies and mechanical splicers for alternatives.

BSD-1

4-4-2025



USER NAME = nhc	DESIGNED - ELH 07/25	REVISED -
ESCA PROJECT NO. = 1445.01	CHECKED - RDP 07/25	REVISED -
PLOT SCALE = 0.2 '"/ in.	DRAWN - NHC 07/25	REVISED -
PLOT DATE = 1/20/2026	CHECKED - ELH 07/25	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

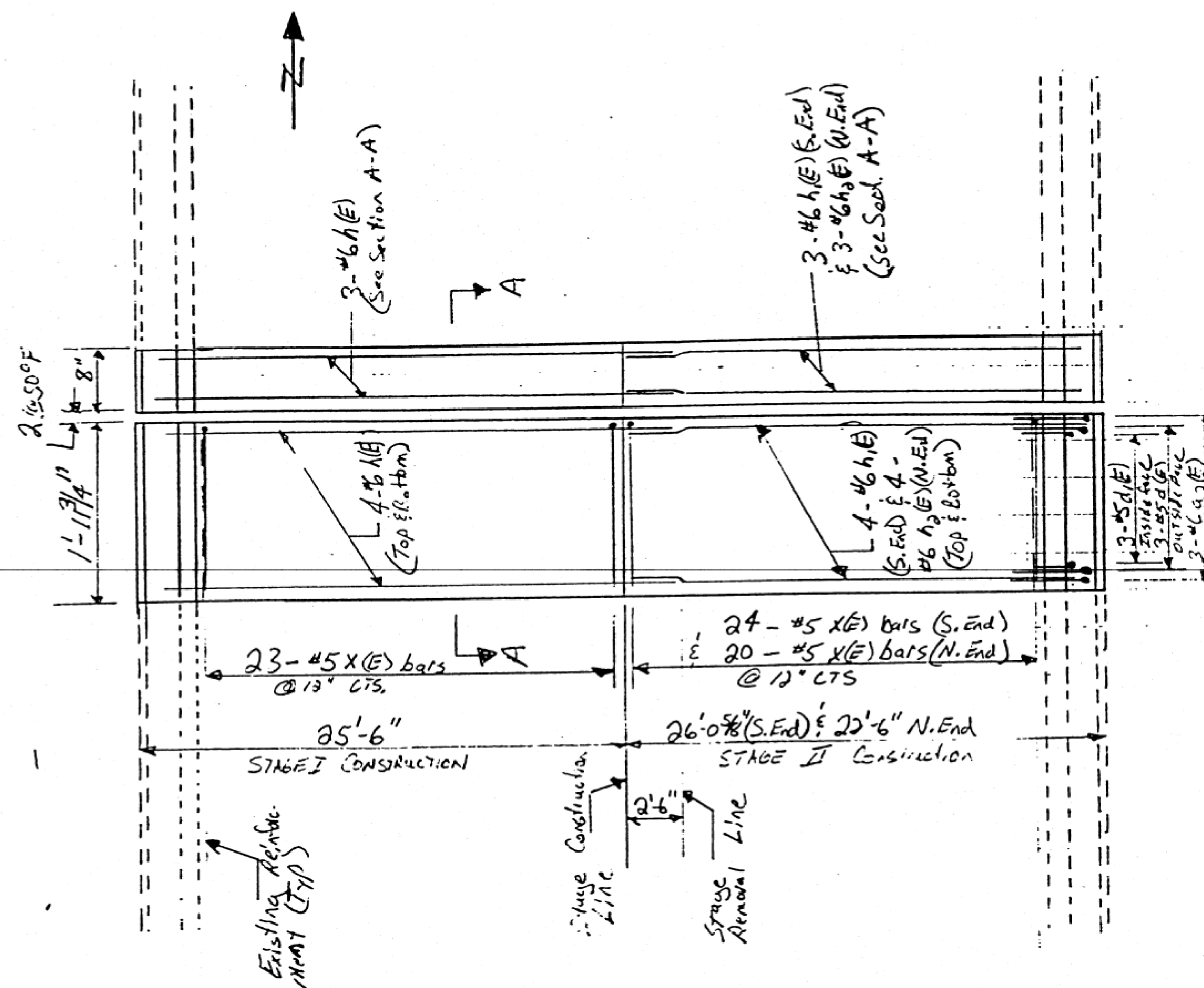
BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
SN 058-0070 (WB) & SN 058-0071 (EB)

SHEET 29 OF 36 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	D7 BRIDGE REPAIRS 2026-3	MACON	108	101
CONTRACT NO. 74D08				
		ILLINOIS	FED. AID PROJECT	



Route _____ Sheet _____ of _____
 Section _____ Computed _____ Date _____
 County _____ Checked _____ Date _____
 Structure No. _____



PLAN VIEW
(Showing Replacement)

(Sheet 1 of 7)



USER NAME = nhc	DESIGNED - ELH 07/25	REVISED -
ESCA PROJECT NO. = 1445.01	CHECKED - RDP 07/25	REVISED -
PLOT SCALE = 0.2 '"/in.	DRAWN - NHC 07/25	REVISED -
PLOT DATE = 1/20/2026	CHECKED - ELH 07/25	REVISED -

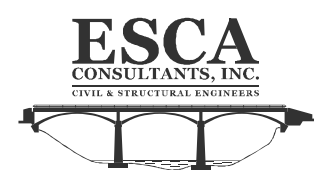
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS - FOR INFORMATION ONLY
SN 058-0070 (WB)

SHEET 30 OF 36 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	D7 BRIDGE REPAIRS 2026-3	MACON	108	102
CONTRACT NO. 74D08				
		ILLINOIS	FFD. AID PROJECT	

MODEL: Sheet
FILE NAME: Y:\DOT11445-01_74D08\74D08 DESIGN\CADD\SP SN 058-0070-0071\Common Sheets\0580070-D774D08-31-ExpPlan.dgn



USER NAME = nhc
ESCA PROJECT NO. = 1445.01
PLOT SCALE = 0.2" = 1' / in.
PLOT DATE = 1/20/2026

DESIGNED - ELH 07/25
CHECKED - RDP 07/25
DRAWN - NHC 07/25
CHECKED - ELH 07/25

REVISED -
REVISED -
REVISED -
REVISED -

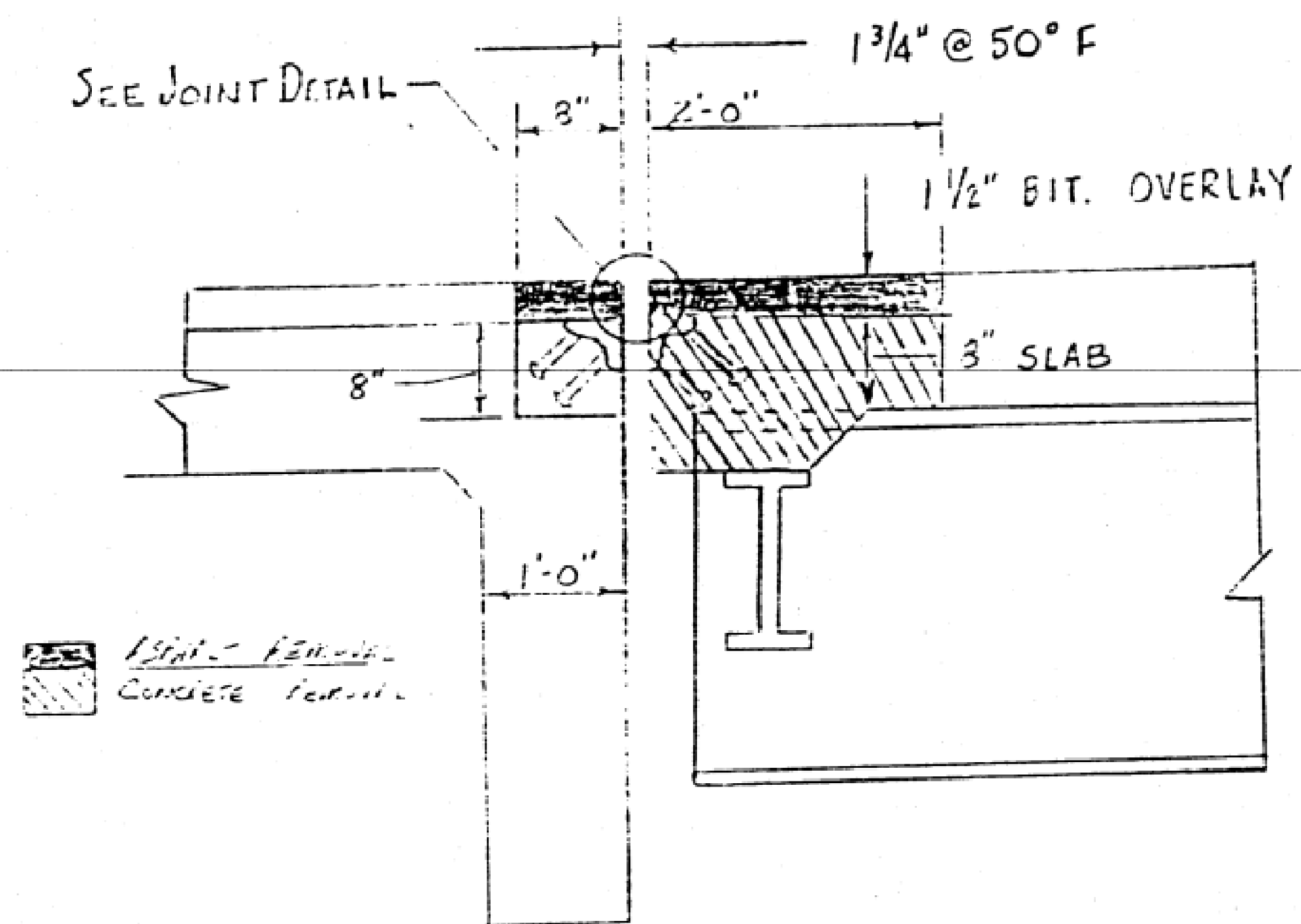
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS - FOR INFORMATION ONLY
SN 058-0070 (WB)

SHEET 31 OF 36 SHEETS

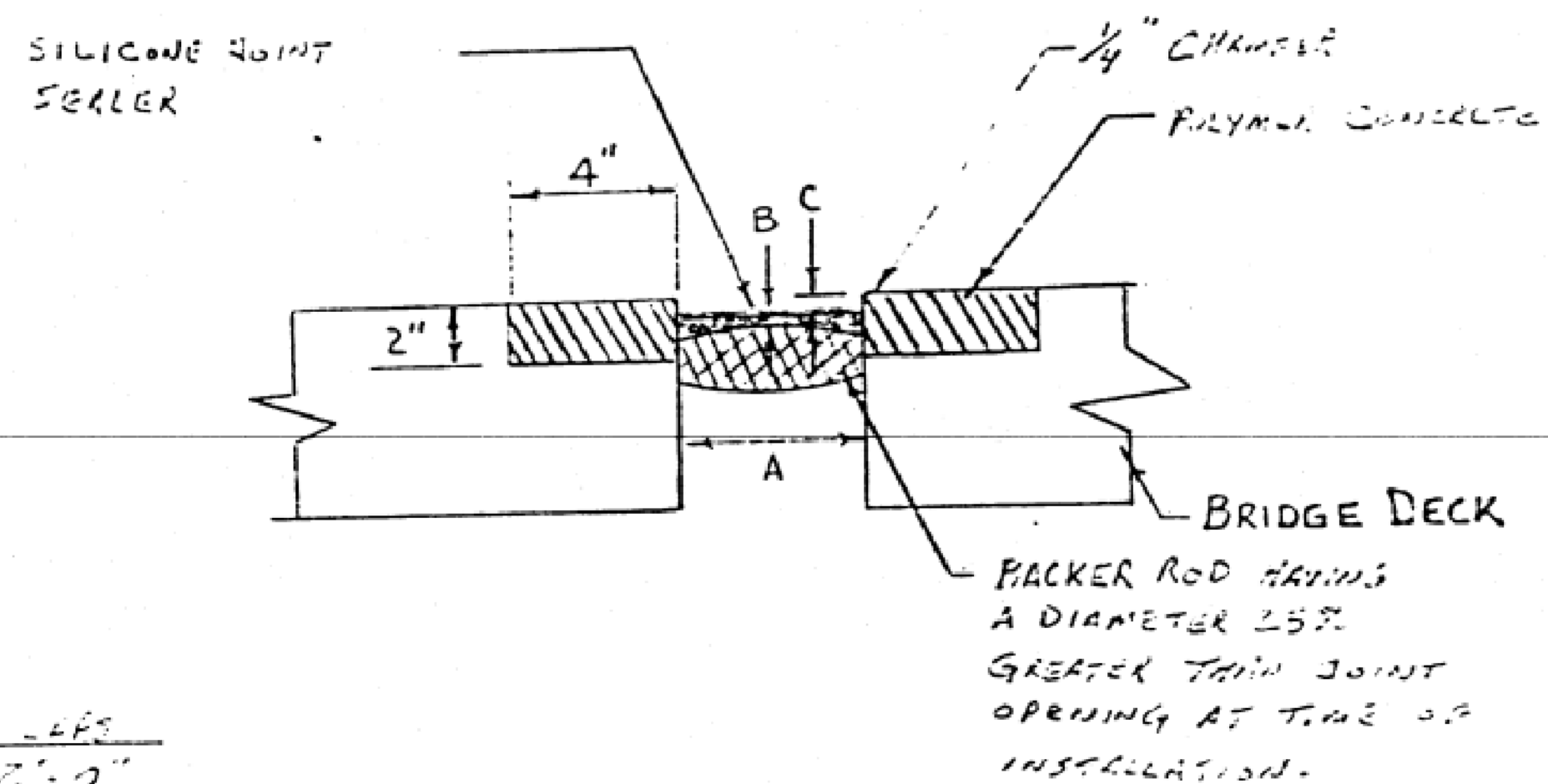
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	D7 BRIDGE REPAIRS 2026-3	MACON	108	103
CONTRACT NO. 74D08				
ILLINOIS FED. AID PROJECT				

REMOVAL DETAIL



MIN. BAR LEPS
6 - 2'-0"

JOINT DETAIL

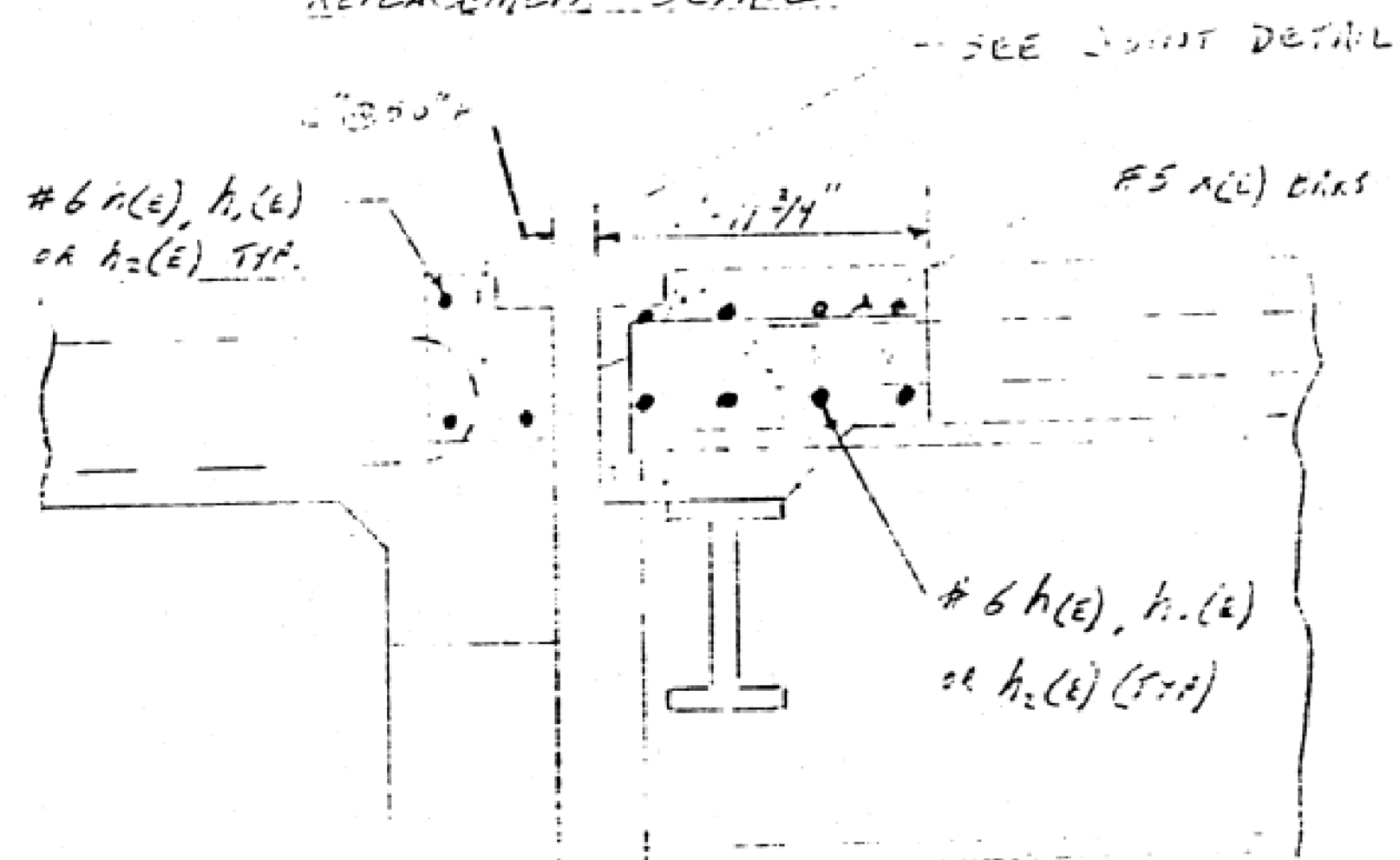


	A	B	C
	JOINT OPENING	SEALANT THICKNESS	SEALANT RECESS
NORTH ABUTMENT	2"	5/8"	3/4"
SOUTH ABUTMENT	2"	5/8"	3/4"

NOTE: NORTH AND SOUTH JOINTS 2" AT 50°F. ALL MATERIALS, INSTALLATION PROCEDURES AND DIMENSIONS WILL CONFORM TO SPECIAL PROVISIONS AND MANUFACTURERS RECOMMENDATIONS.

* NOTE: EXISTING REINFORCEMENT BARS TO BE REUSED, SHALL BE CLEANED AND STRAIGHTENED PRIOR TO INCORPORATING IN NEW CONCRETE.

REPLACEMENT DETAIL



(Sheet 2 of 7)

BENCH MARK: 10 Lag Screw in Tele. Pole
175' E. Sta. 534+95 F.R.I. 72 Elev. 687.04
EXISTING STRUCTURE: None

Sheet No. 1
of 29 Sheets

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FRI-72	58-62 HVB	MACON	49	10
FED. ROAD DIST. NO. ILLINOIS PROJECT				

DESIGN LOADINGS

Live Load HS20-44 & Alternate ARSHO 1973 Specs
Dead Load includes 25' 10" Ft. of Roadway for
Future Wearing Surface

DESIGN STRESSES

f_c = 1,400 P.S.I. Substr. Curb, Parapet & App. Slabs
 f_c = 1,200 P.S.I. Superstructure Slab
 f_c = 75 P.S.I. Footings
 f_s = 20,000 P.S.I. Reinforcing Steel
 f_s = 20,000 P.S.I. Structural Steel
 n = 10

LIVE LOAD DEFLECTION

1/1200 for composite Construction

GENERAL NOTES

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

Fasteners shall be high strength bolts. Bolts 3/4": open holes 13/16", unless otherwise noted.

Calculated weight of Structural Steel = 556,487 Lbs.

The basic lead silico chromate paint system shall be used for shop and field painting of Structural Steel.

Field welding of construction accessories will not be permitted to the bottom flange of girders nor to the top flange for a distance equal to one-fourth the span length each way from the pier supports. Field welding in other areas will be permitted only when approved by the Engineer.

Anchor bolts shall be set before bolting diaphragms over supports.

Slope wall shall be reinforced with welded wire fabric 6"x6" mesh, weighing 58 lbs. per 100 sq. ft.

The Contractor shall drive 6 Concrete test piles in permanent locations at Abutment #1 and #2 and Pier in the east and west bound structures as directed by the Engineer before ordering the remainder of piles.

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.

Boring Data are included with the Contract Proposals.

The Contractor shall make allowance for the deflection of forms, shrinkage and settlement of falsework, in addition to allowance for dead load deflection.

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

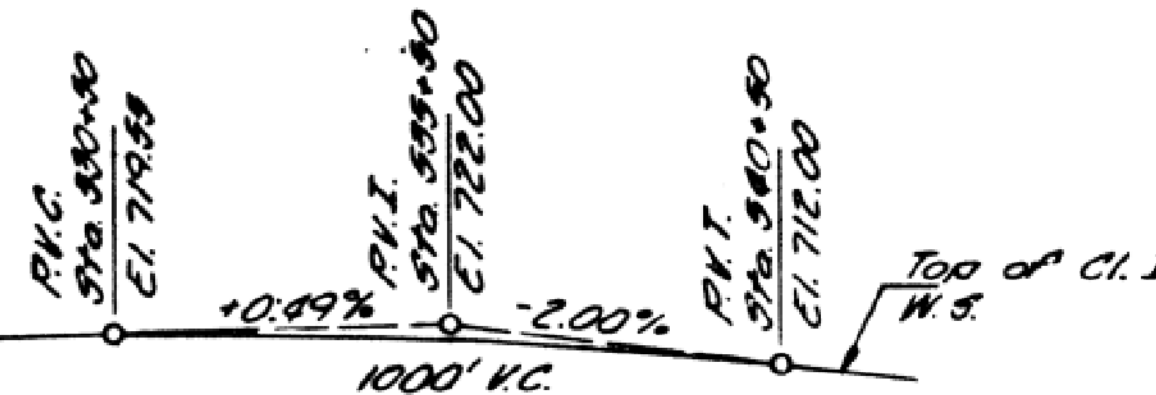
The concrete rail section above the mandatory construction joint at the top of the slab shall be constructed of Class X Concrete, except the aggregates shall conform to the requirements of Handrail Concrete.

For Waterproofing Membrane System see Special Provisions.

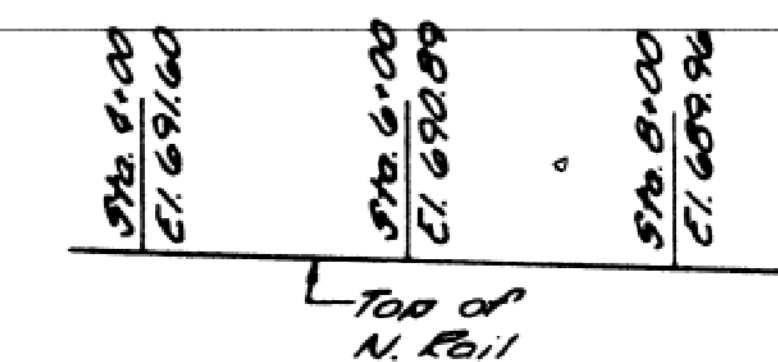
Protective Coat shall not be applied to surfaces to which Waterproofing Membrane System is applied.

For excavation, under embankment cones, and porous granular embankment see roadway plans.

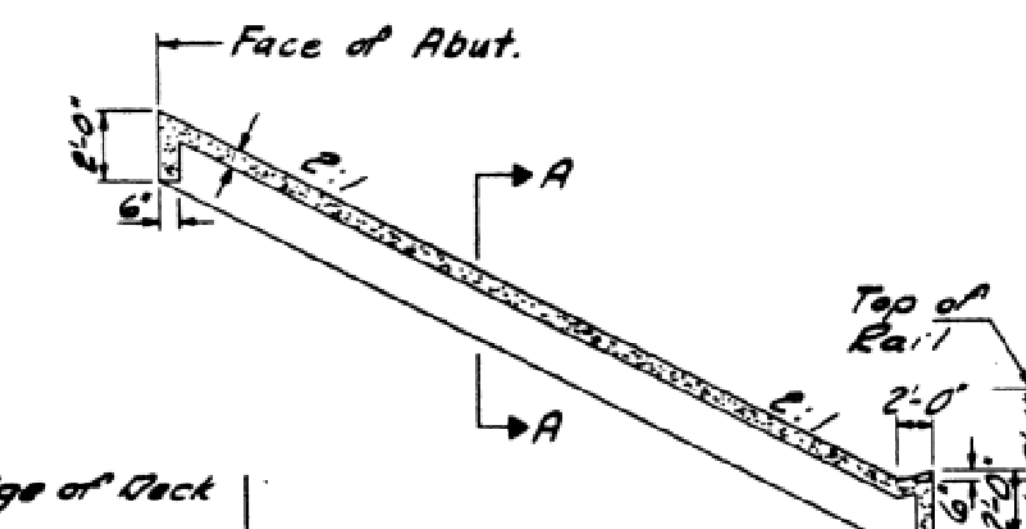
PROFILE GRADE F.R.I. 72



PROFILE NEW RAILWAY



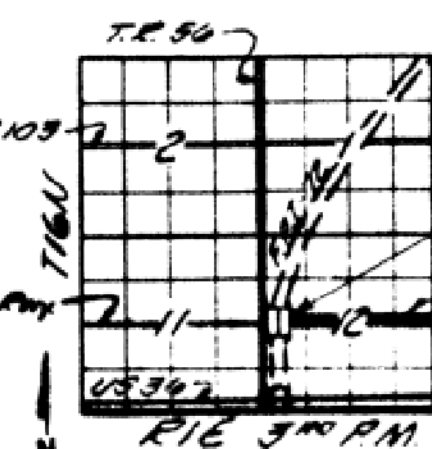
SECTION B-B (Sec. C-C similar)



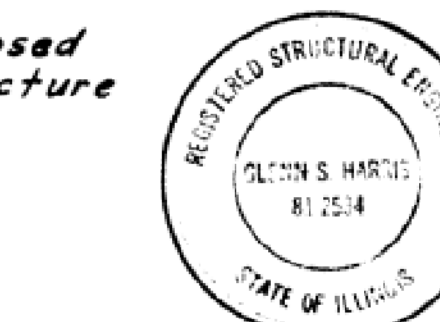
STA. 534+98.26
BUILT 197 BY
STATE OF ILLINOIS
F.R.I. 72 SECTION 58-62 HVB
F.A. PROJ. I-16-72-1(43)
LOADING HS 20 & ALT.

LETTERING FOR NAME PLATES (E.B.)

(See Std. 2113)
Note: Sta. for W.B. Str.
name plate shall be 534+95.50



LOCATION SKETCH



Glenn S. Harris
(Sheet 3 of 7)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS - FOR INFORMATION ONLY
SN 058-0070 (WB) & SN 058-0071 (EB)

SHEET 32 OF 36 SHEETS

GENERAL PLAN & ELEVATION

REVISIONS	DATE	INITIALS	BY	DATE	INITIALS
1	9/7/8	GSH			
2	11/7/8	GSH			
3					
4					
5					
6					
7					
8					
9					
10					

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAY	DRAWN BY DATE GSH 7-73
F.R.I. 72 OVER NEW RAILWAY F.R.I. 72 SEC. 58-62 HVB PROJECT STA. 534+69.66 (F.R.I. 72)	CHECKED BY DATE GSH 7-73
HOMER L. CHASTAIN & ASSOCIATES CONSULTING ENGINEERS DECATUR, ILLINOIS	BOOK NUMBER PROJECT NO. SHEET NO. 10

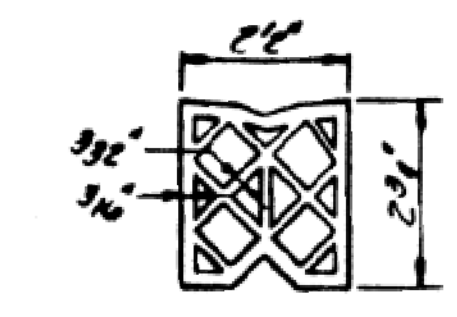
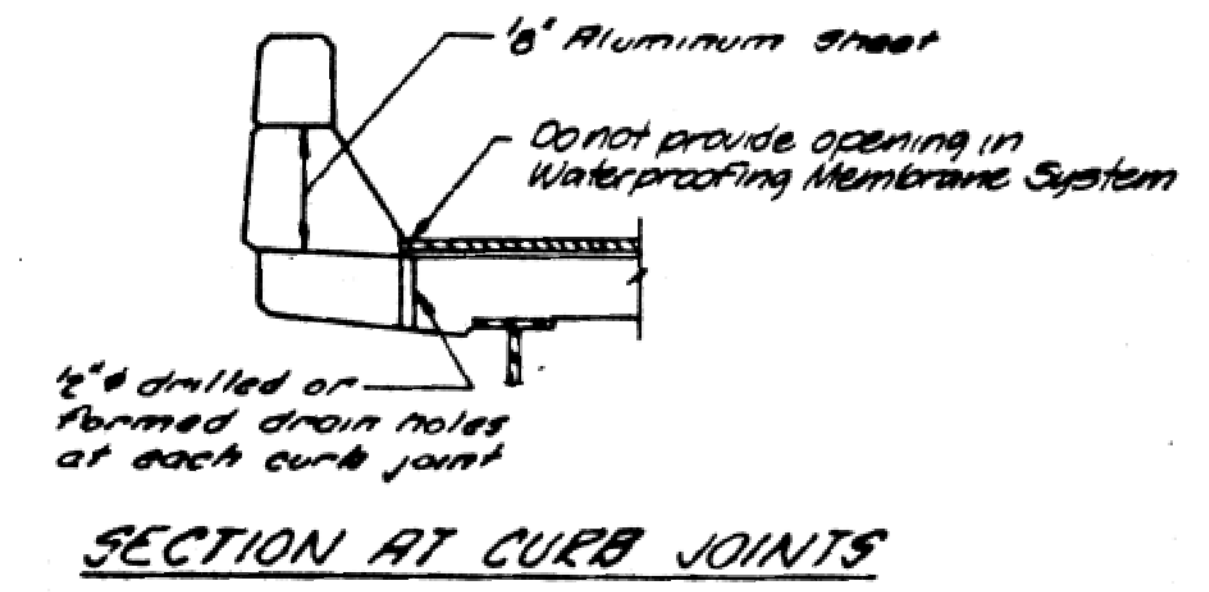
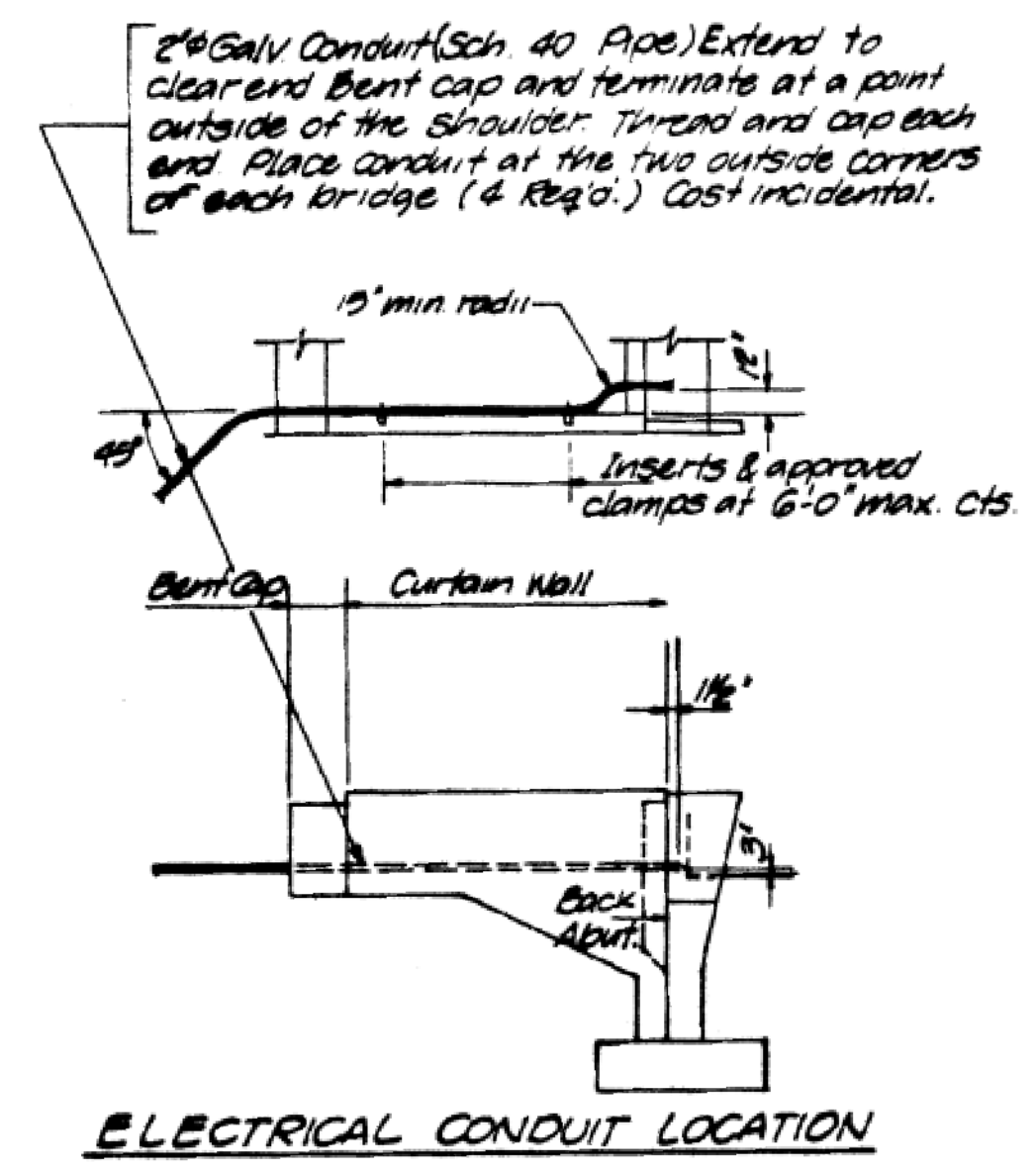
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	D7 BRIDGE REPAIRS 2026-3	MACON	108	104
CONTRACT NO. 74D08				
ILLINOIS FED. AID PROJECT				

MODEL: Sheet
FILE NAME: Y:\DOT\1445-01_74D08\74D08 DESIGN\ADD SP SN 058-0070-0071\Common Sheets\0580070-0071\4D08-32-ExpPlan.dgn

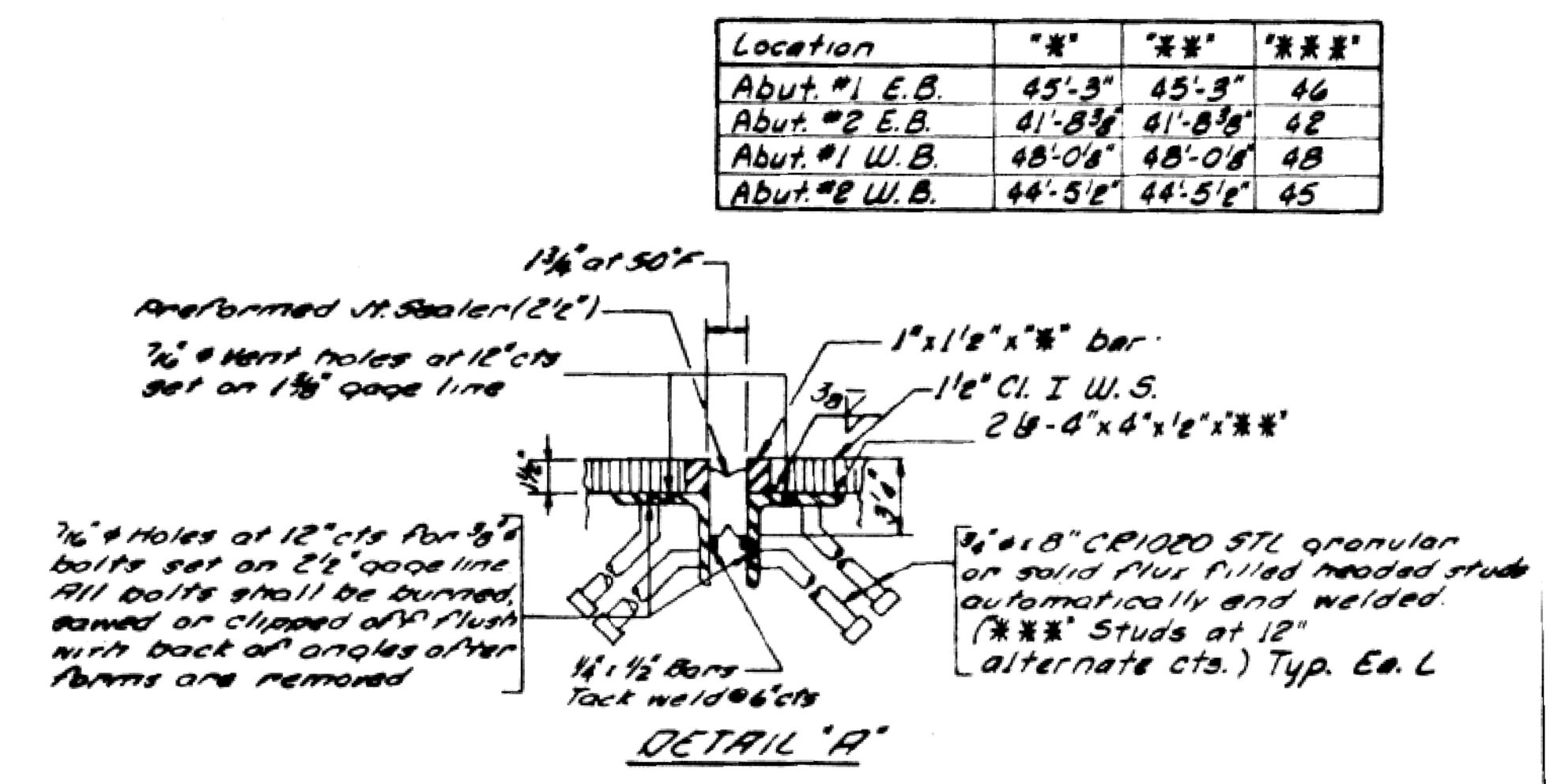
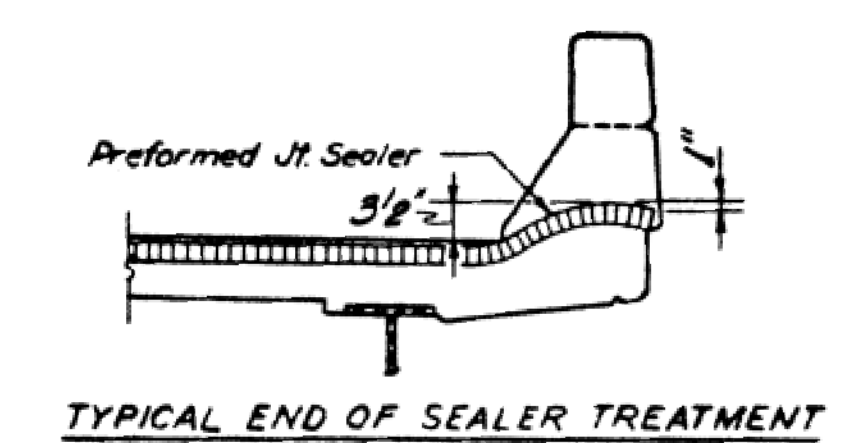
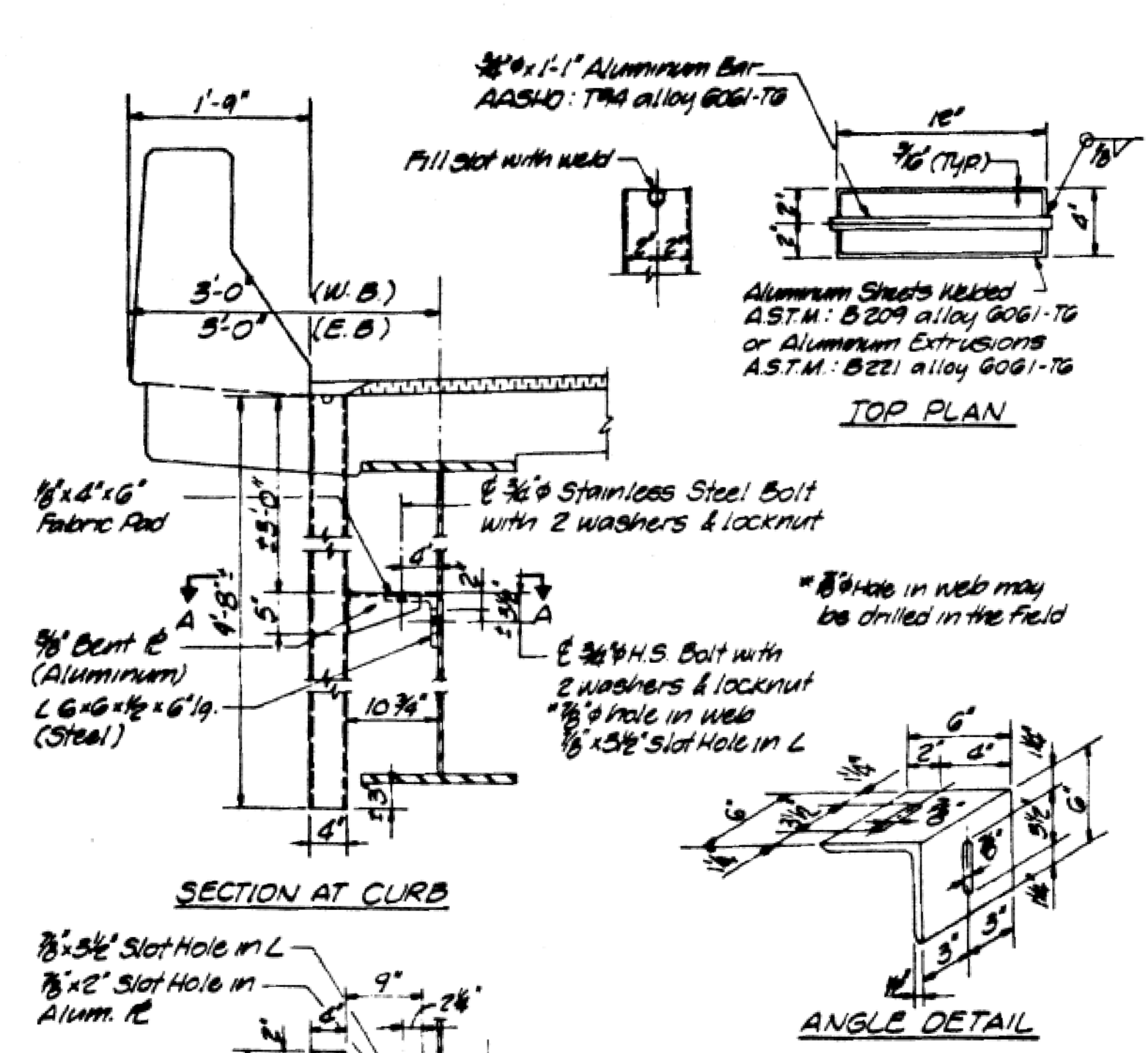


USER NAME = nhc	DESIGNED - ELH 07/25	REVISED -
ESCA PROJECT NO. = 1445.01	CHECKED - RDP 07/25	REVISED -
PLOT SCALE = 0.2" = 1'	DRAWN - NHC 07/25	REVISED -
PLOT DATE = 1/20/2026	CHECKED - ELH 07/25	REVISED -

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FRL-72	58-62MB	MACON	49	21
FED. ROAD DIST. NO.	ILLINOIS	PROJECT		



PREFORMED JOINT SEALER (2 1/2")



Location	***	***	***
Abut. #1 E.B.	45'-3"	45'-3"	46
Abut. #2 E.B.	41'-8 3/8"	41'-8 3/8"	42
Abut. #1 W.B.	48'-0 1/8"	48'-0 1/8"	43
Abut. #2 W.B.	44'-5 1/2"	44'-5 1/2"	45

DETAILS OF GIRDER DRAIN EXTENSION
(Cost of Drains incidental to Class X Concrete)

Note: The exterior surfaces of the aluminum drains shall be cleaned and given a washcoat pretreatment in accordance with the Steel Structure Painting Council's Specification SSPC-SP1 & SSPC-PT3 followed by the basic lead chromate painting specified for Structural Steel.

REVISIONS				DETAILS		DRAWN BY DATE
NO.	DATE	BY	CHKD.			JLW 10-74
1						CHECKED BY DATE
2						G.S.H. 9-74
3						BOOK NUMBER
4						PROJECT NO.
5						2429-5
6						SHEET NO.
7						21
8						
9						
10						

(Sheet 4 of 7)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS - FOR INFORMATION ONLY
SN 058-0070 (WB) & SN 058-0071 (EB)

SHEET 33 OF 36 SHEETS

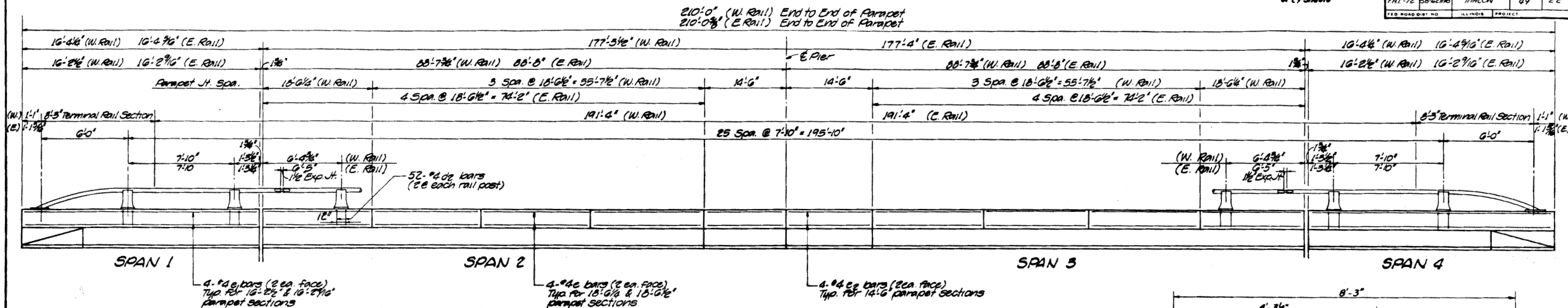
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	D7 BRIDGE REPAIRS 2026-3	MACON	108	105
				CONTRACT NO. 74D08
				ILLINOIS FED. AID PROJECT

MODEL: Sheet
FILE NAME: Y:\DOT11445-01_74D08\74D08 DESIGN\CADD\SP SN 058-0070-01\Common Sheets\0580070-D774D08-33-ExpPlan.dgn

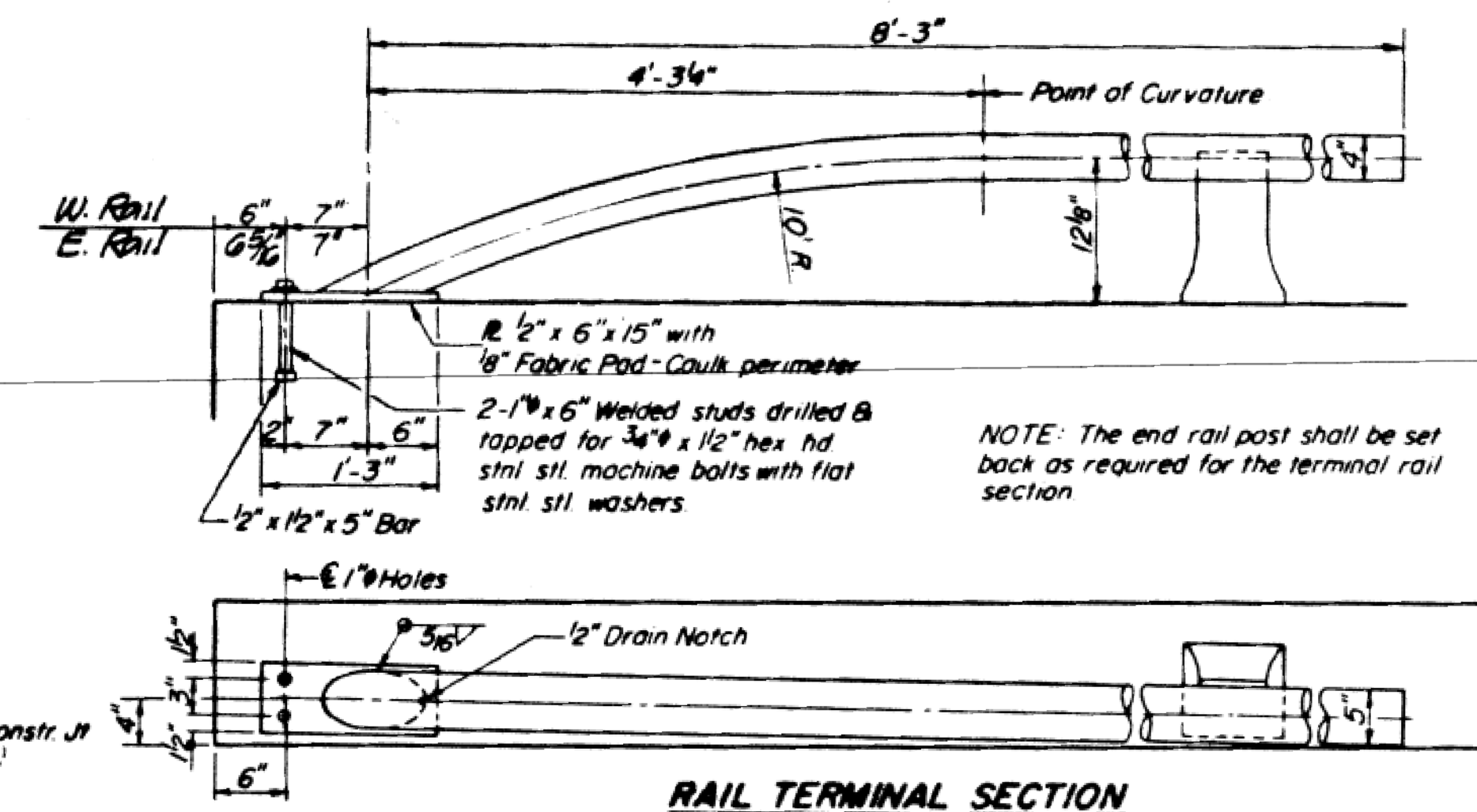


USER NAME = nhc	DESIGNED - ELH 07/25	REVISED -
ESCA PROJECT NO. = 1445.01	CHECKED - RDP 07/25	REVISED -
PLOT SCALE = 0.2" = 1' in.	DRAWN - NHC 07/25	REVISED -
PLOT DATE = 1/20/2026	CHECKED - ELH 07/25	REVISED -

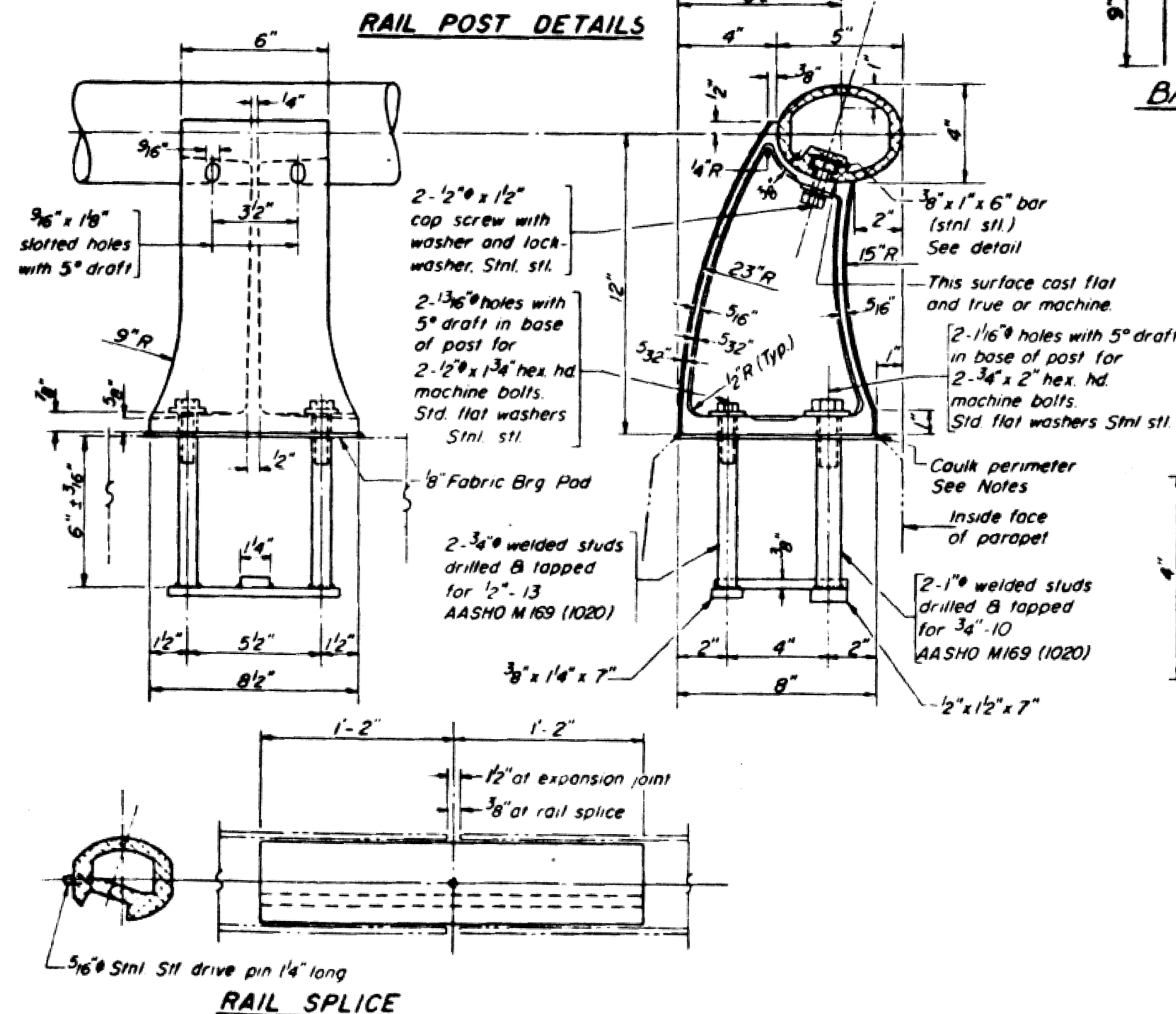
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI-72	58-0211B	MACON	09	22
FED. ROAD DIST. NO.	ILLINOIS	PROJECT		



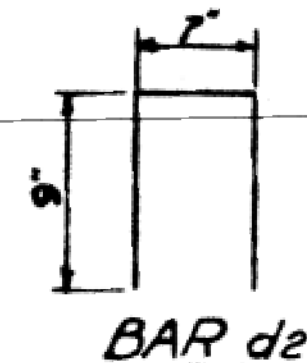
ELEVATION



RAIL TERMINAL SECTION

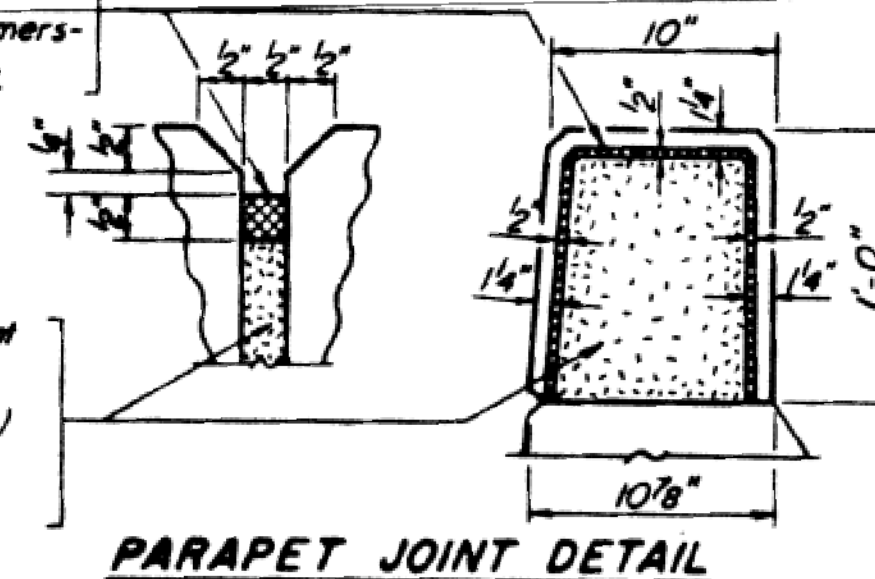


RAIL POST DETAILS



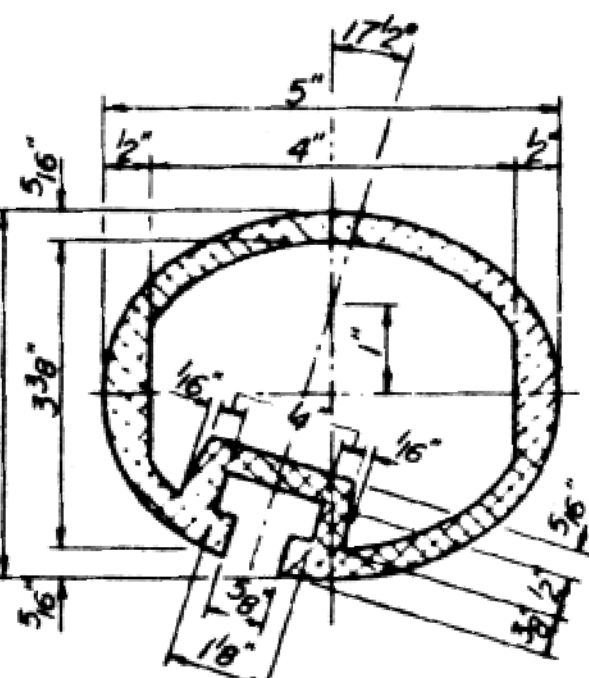
BAR d2

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

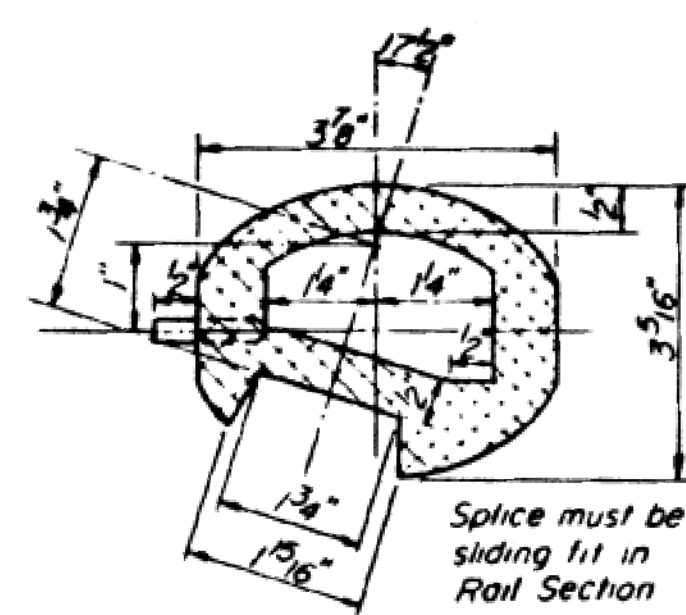


PARAPET JOINT DETAIL

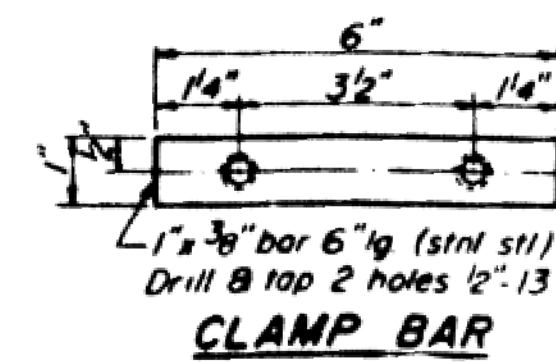
1/2\" Preformed Cork Joint Filler (in accordance with Article 715.07 or 715.08) Coat incidental.



SEC. THRU ELLIPTICAL RAIL SECTION



SEC. THRU SPLICE



CLAMP BAR

NOTES:

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 - 1/8\" and 2 - 1/16\" Aluminum Shim 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 B221 alloy 6061-T6 or 6351-T5 with min. yield 35 ksi, min. tensile 38 ksi, and elongation of 10% in 2 inches.

Stainless steel machine bolts or cap screws shall be in accordance with Article 710.37(a) of the Standard Specifications except Grade B8 or B8M may be furnished.

PARAPETS & RAILS
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d2	104	#4	8'-1 1/2'	□
e	64	#4	18'-2'	—
e1	16	#4	15'-10'	—
e2	16	#4	14'-3'	—
Reinforcement Bars			Lbs	1240
Class X Concrete			Cu Yds	13.5
Aluminum Railing			Lin Ft	416

ALUMINUM RAILING - W.B. LANES

REVISIONS	DATE	BY	APP'D
1	JUN 9-78		
2	SEP 11-75		
3			
4			
5			
6			
7			
8			
9			
10			

FAI-72 OVER N.W. RAIL & TR 117
FAI-72 SEC 58-02 HVB PROJ.
STA 532+09.66 MAISON CO.
HOMER L. CHASTAIN & ASSOCIATES
CONSULTING ENGINEERS
DECATUR, ILLINOIS

PROJECT NO.	SHEET NO.
2209-5	22

(Sheet 5 of 7)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS - FOR INFORMATION ONLY
SN 058-0070 (WB)

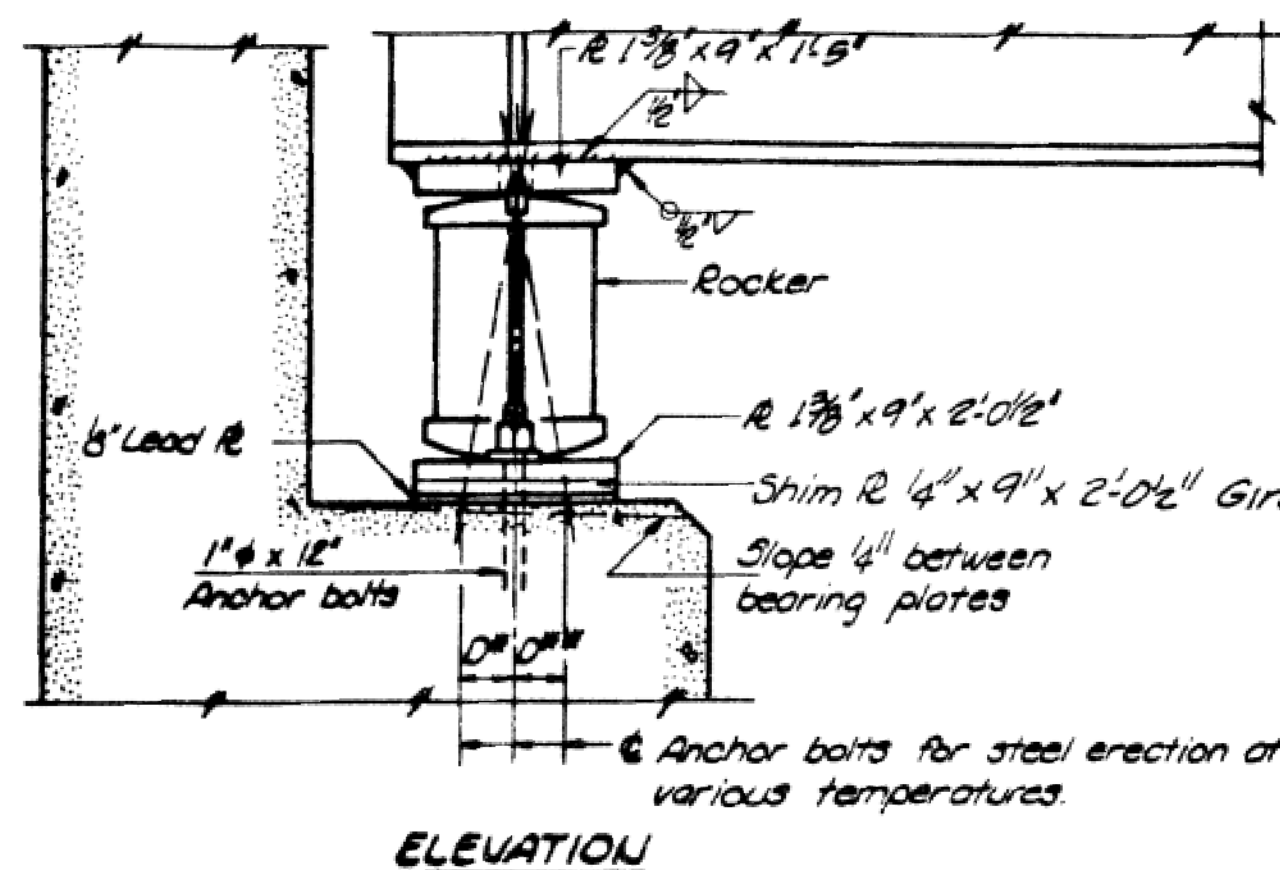
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	D7 BRIDGE REPAIRS 2026-3	MACON	108	106
CONTRACT NO. 74D08				
ILLINOIS FED. AID PROJECT				

SHEET 34 OF 36 SHEETS

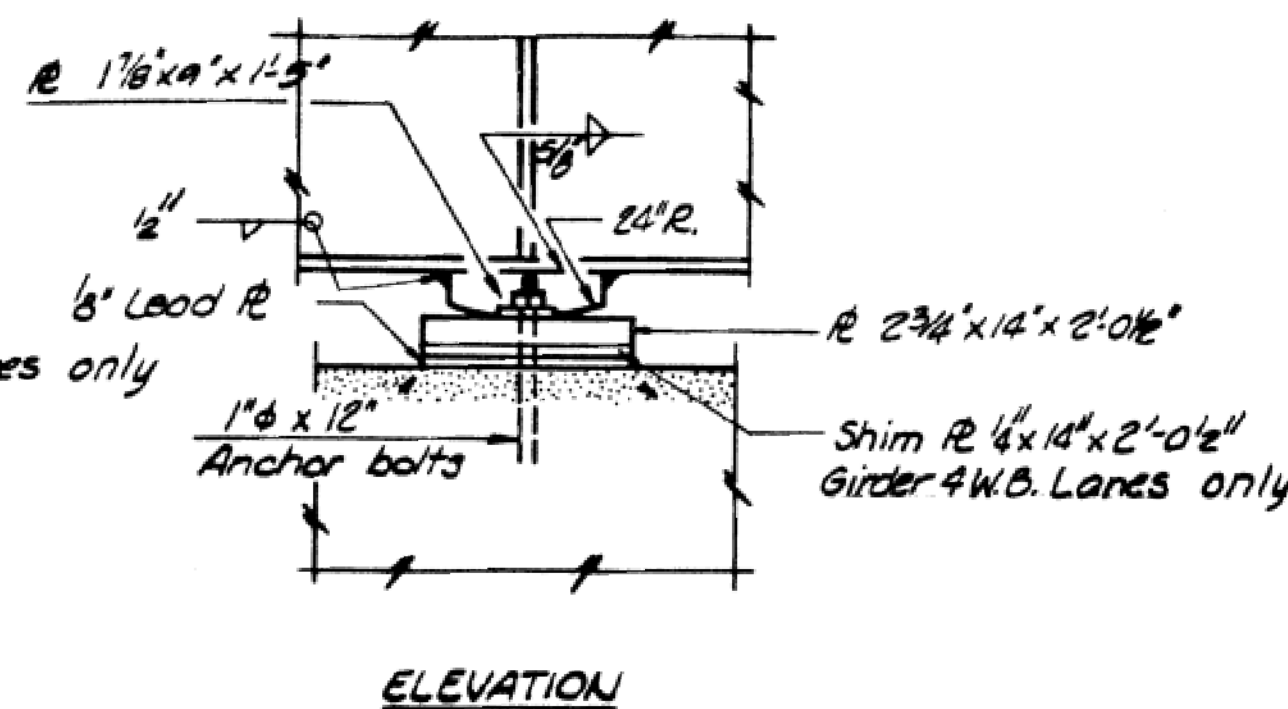


USER NAME = nhc	DESIGNED - ELH 07/25	REVISED -
ESCA PROJECT NO.= 1445.01	CHECKED - RDP 07/25	REVISED -
PLOT SCALE = 0.2 '"/>	DRAWN - NHC 07/25	REVISED -
PLOT DATE = 1/20/2026	CHECKED - ELH 07/25	REVISED -

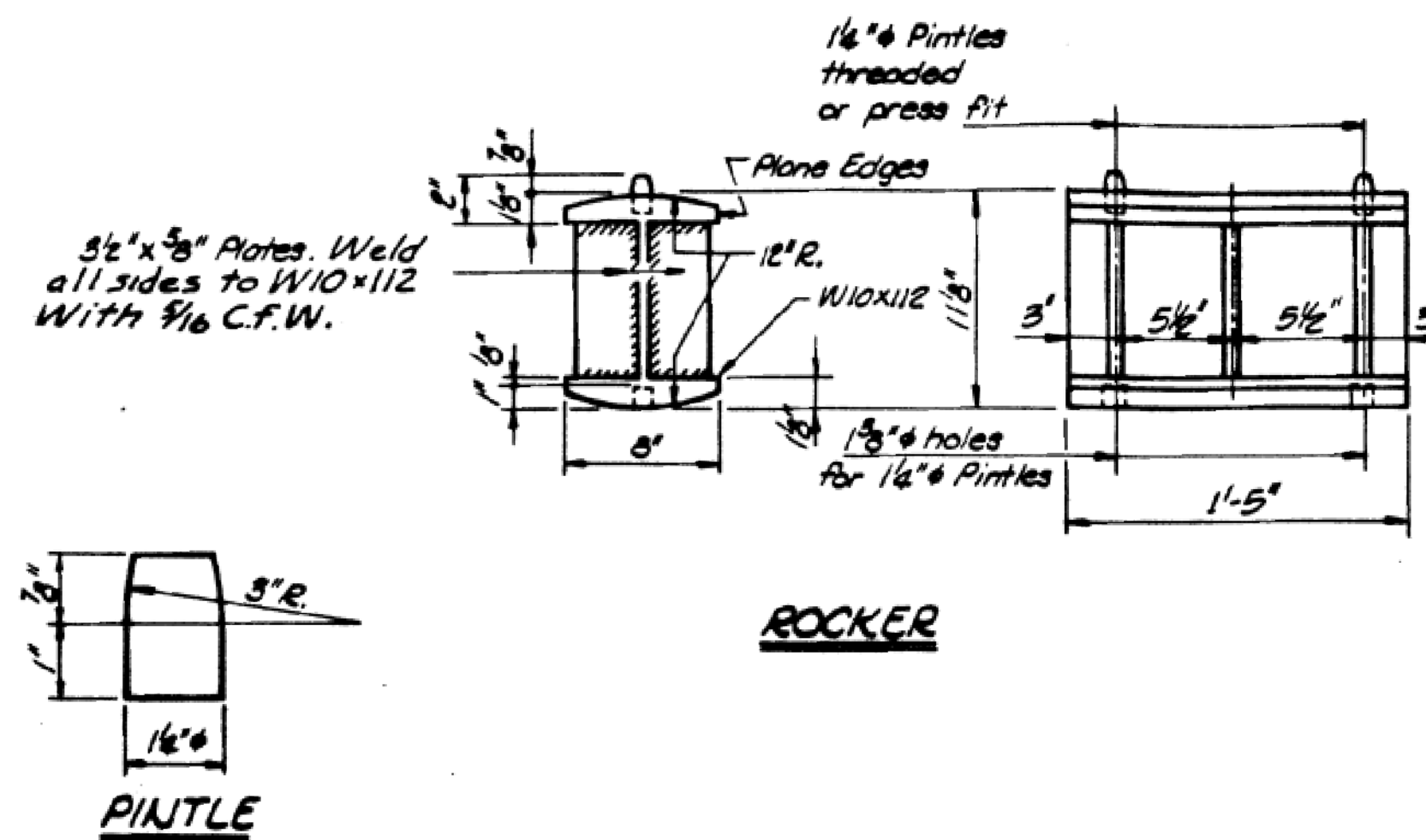
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI-72	50-42 MB	MACON	49	25
FED. ROAD DIST. NO.	ILLINOIS	PROJECT		



ELEVATION

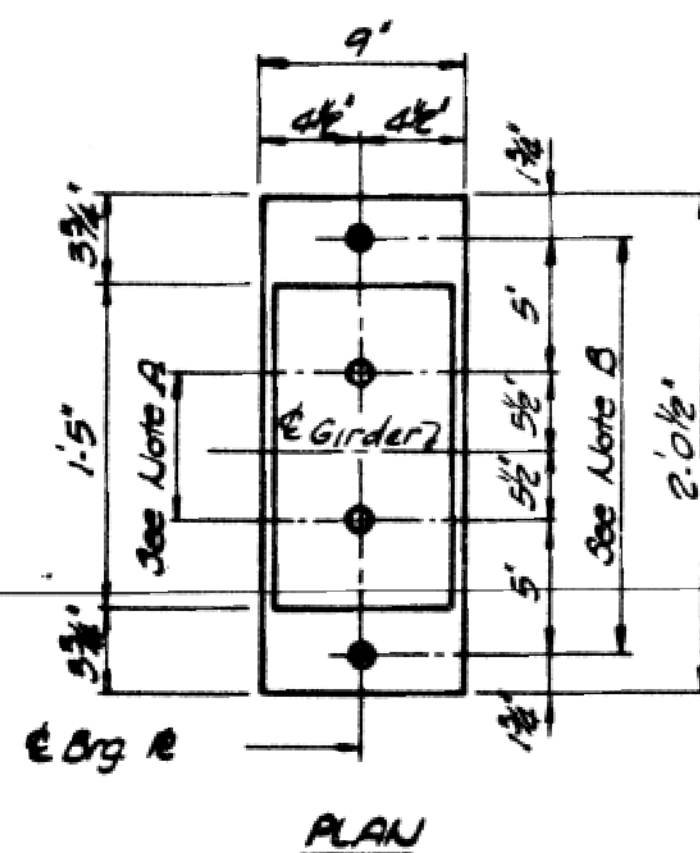


ELEVATION



ROCKER

PINTLE

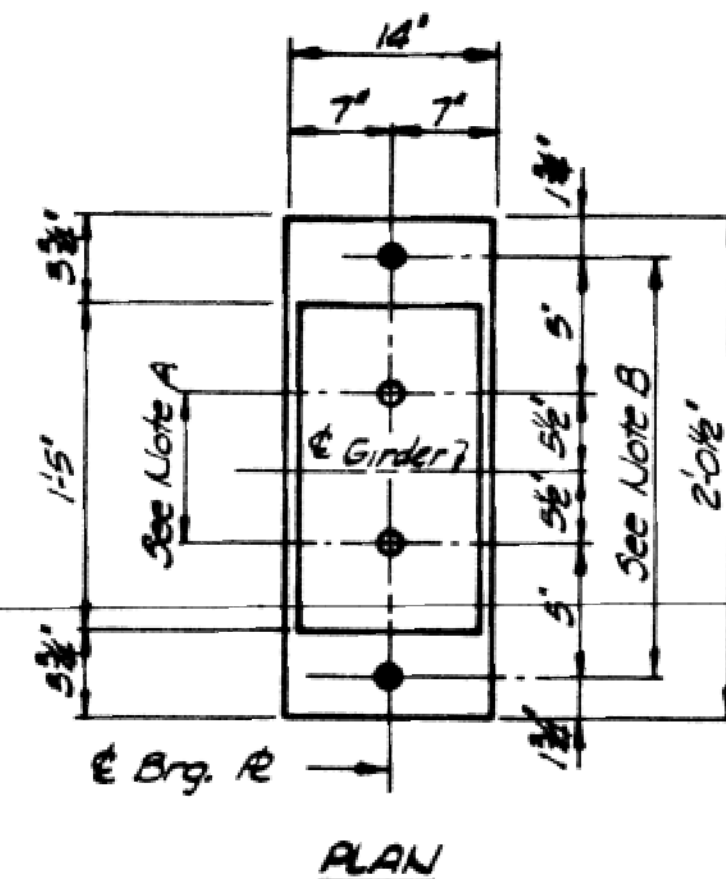


PLAN

AT ABUTMENT

NOTE A
1/2" holes - 1" deep in top R for pintles. Thread or press fit pintles into bottom R.

NOTE B
1/2" holes for 1" anchor bolts. 2" x 2" x 3/8" R washers under nut.



PLAN

AT PIER

NOTES ON SETTING OF ANCHOR BOLTS AT EXPANSION BEARINGS

- a) D^* (Side of brg. away from fixed brg.)
 $D^* = 6"$ per each 100' of expansion for every 15° below the normal temperature of 50°F.
- D^{**} (Side of brg. toward fixed brg.)
 $D^{**} = 6"$ per each 100' of expansion for every 15° above the normal temperature of 50°F.
- b) After beams have been erected and dimensions D^* or D^{**} determined, holes shall be drilled and anchor bolts shall be grouted in place. All fixed anchor bolts may be built into the masonry.

MOMENT TABLE - Symm. Composite 2 Span
(Composite in Positive Moment Areas Only)

INTERIOR GIRDER MOMENT TABLE		
	O.4 Sp. 1	Pier
I_g (in ⁴)	14,770	34,063
I_c (in ⁴)	42,002	
S_g (in ³)	818	1481
S_c (in ³)	1151	
Q (K/1)	1.02	1.02
M_Q (K)	435	1291
$F_s Q$ (K/1)	6.4	10.2
S_E (K/1)	.44	.44
M_{SE} (K)	194	440
M_E (K)	757	618
M_{imp} (K)	177	142
TOTAL (K)	1130	1188
$F_s Q + S_E$ (K/1)	11.8	9.6
F_s TOTAL (K)	18.2	19.4
VR (K)	57.3	

REACTION TABLE

INTERIOR GIRDER REACTION TABLE		
	ABUTMENT	PIER
$R_E + S_E$ (K)	44.7	171.2
R_E (K)	49.0	67.4
$Imp.$ (K)	11.5	15.9
R TOTAL (K)	105.2	254.5

I_g and S_g are the moment of inertia and section modulus of the steel section.
 I_c and S_c are the moment of inertia and section modulus of the composite section used in computing F_s .
 VR is the maximum $\pm$ impact shear range.

WESTBOUND STRUCTURE

MOMENT TABLE - Symm. Composite 2 Span
(Composite in Positive Moment Areas Only)

INTERIOR GIRDER MOMENT TABLE		
	O.4 Sp. 1	Pier
I_g (in ⁴)	14,095	31,964
I_c (in ⁴)	37,443	
S_g (in ³)	754	1,397
S_c (in ³)	1046	
Q (K/1)	.95	.95
M_Q (K)	412	1178
$F_s Q$ (K/1)	6.6	10.1
S_E (K/1)	.42	.42
M_{SE} (K)	217	404
M_E (K)	698	570
M_{imp} (K)	163	133
TOTAL (K)	1078	1107
$F_s Q + S_E$ (K/1)	12.4	9.5
F_s TOTAL (K)	19.0	19.6
VR (K)	53.0	

REACTION TABLE

INTERIOR GIRDER REACTION TABLE		
	ABUTMENT	PIER
$R_E + S_E$ (K)	41.5	158.9
R_E (K)	45.7	66.3
$Imp.$ (K)	10.7	15.5
R TOTAL (K)	97.9	240.7

I_g and S_g are the moment of inertia and section modulus of the steel section.
 I_c and S_c are the moment of inertia and section modulus of the composite section used in computing F_s .
 VR is the maximum $\pm$ impact shear range.

EASTBOUND STRUCTURE

BEARING SEAT ADJUSTMENT
Bearing Seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of $\pm 1/8"$. Adjustment shall be made either by grinding the surface or by shimming the bearing. Two $1/8"$ adjusting shims, of the dimensions of the bottom bearing plate, shall be provided for each bearing in addition to all other plates or shims.

BEARING DETAILS - W.B. & E.B. LANES

REVISIONS			DRAWN BY	DATE
1	DATE	INITIALS		
2				
3				
4				
5				
6				
7				
8				
9				
10				

FAI-72 OVER N&W HWY & T.R. 117
FAI-72 SEC 50-02 HVB PROJ.
STA 534+99.00 MACON CO.

HOMER L. CHASTAIN & ASSOCIATES
CONSULTING ENGINEERS
DECATUR, ILLINOIS

CHECKED BY DATE
G.S.H. 9-72
PROJECT NO.
2469-5
SHEET NO.
25

(Sheet 6 of 7)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS - FOR INFORMATION ONLY
SN 058-0070 (WB) & SN 058-0071 (EB)

FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	D7 BRIDGE REPAIRS 2026-3	MACON	108	107
ILLINOIS				FED. AID PROJECT

SHEET 35 OF 36 SHEETS



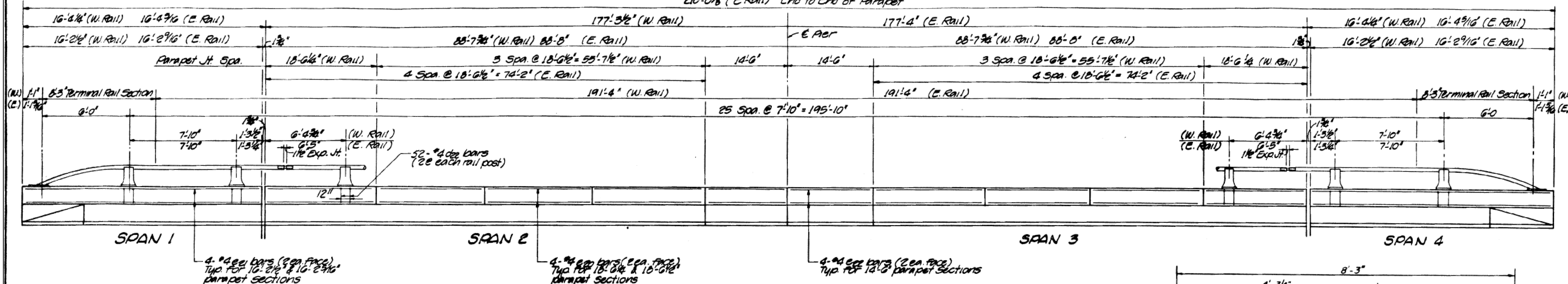
USER NAME = nhc
ESCA PROJECT NO. = 1445.01
PLOT SCALE = 0.2" / 1"
PLOT DATE = 1/20/2026

DESIGNED - ELH 07/25
CHECKED - RDP 07/25
DRAWN - NHC 07/25
CHECKED - ELH 07/25

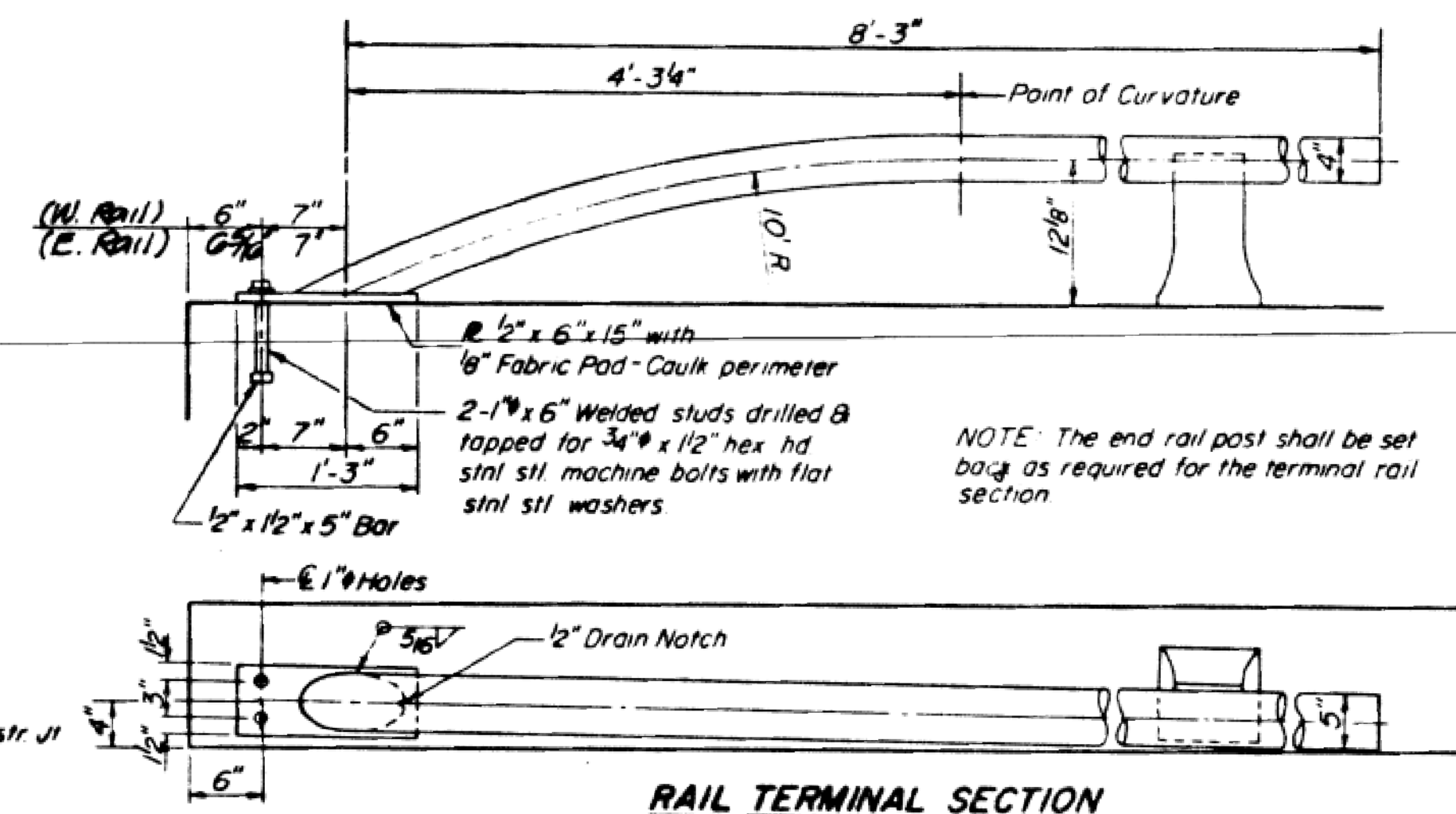
REVISED -
REVISED -
REVISED -
REVISED -

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI-72	58-62WB	MACON	49	32
FD ROAD DIST NO.	ILLINOIS	PROJECT		

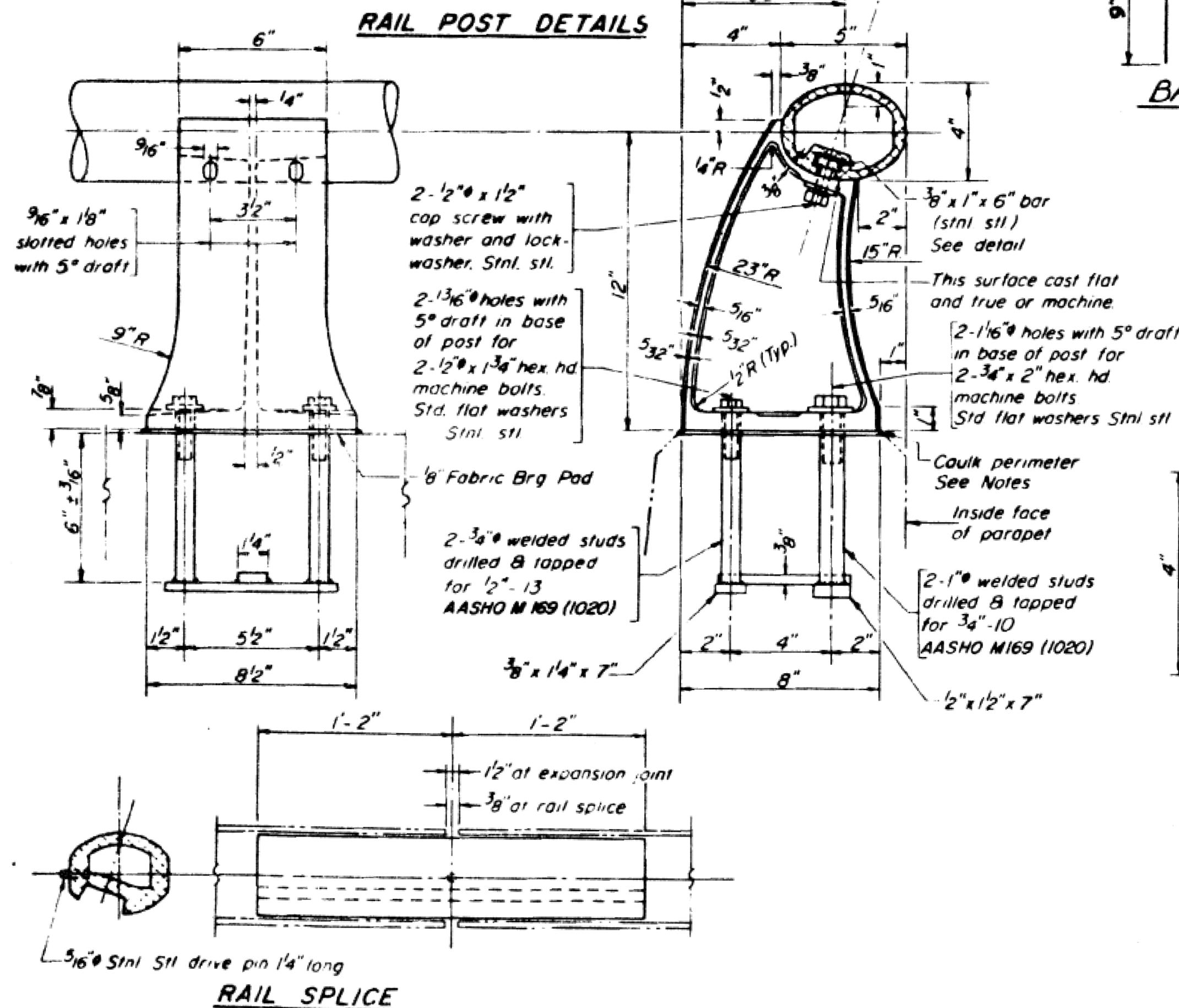
210'-0" (W. Rail) End to End of Parapet
210'-0" (E. Rail) End to End of Parapet



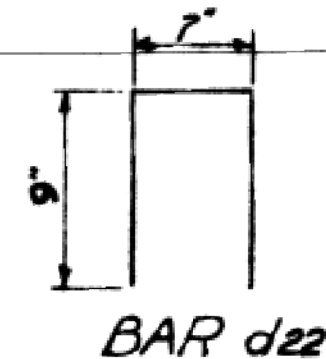
ELEVATION



RAIL TERMINAL SECTION



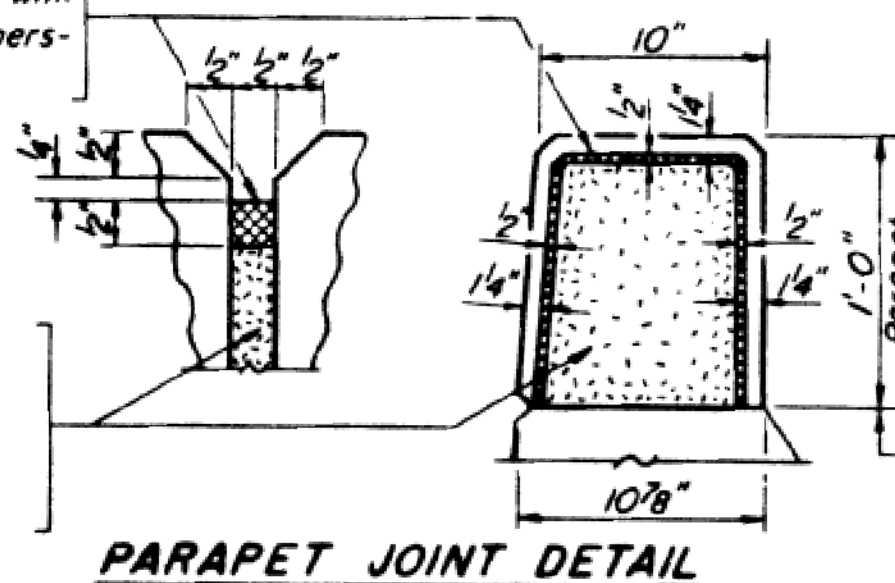
RAIL POST DETAILS



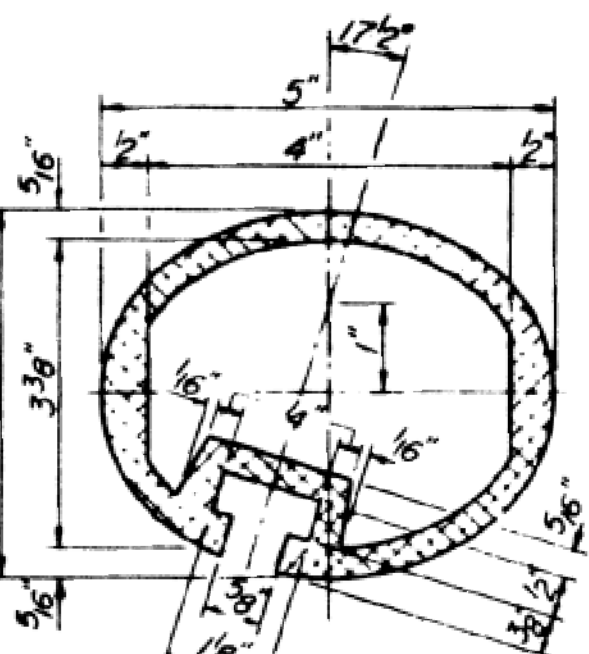
BAR d22

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

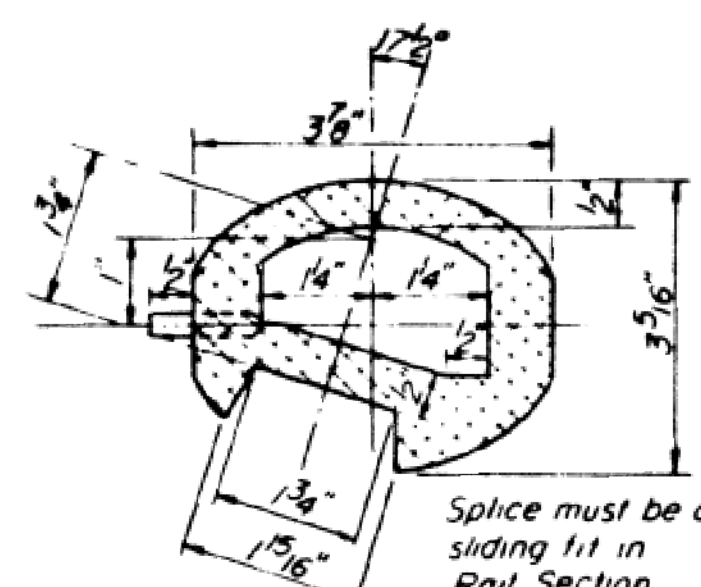
1/2" Preformed Cork Joint
Filler (in accordance with
Articles 715.07 or 715.08)
Cost incidental.



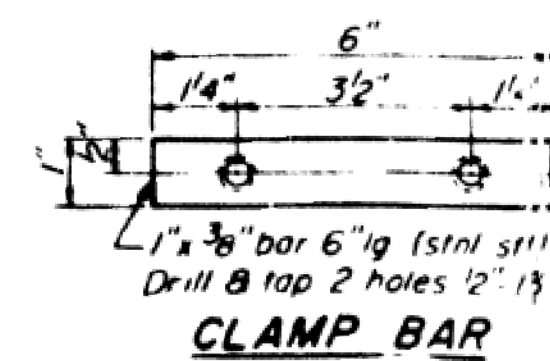
PARAPET JOINT DETAIL



SEC. THRU ELLIPTICAL
RAIL SECTION



SEC. THRU SPLICE



CLAMP BAR

NOTES:

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 1-1/8" 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 B221 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
d22	104	#4	2'-1"	
d20	64	#4	18'-2"	
d21	10	#4	15'-10"	
d22	10	#4	14'-5"	
Reinforcement Bars			Lbs	1240
Class X Concrete			Cu Yds	13.5
Aluminum Railing			L in Ft	416

ALUMINUM RAILING- E.B. LANES

REVISIONS	DATE	BY	REASON
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			

FAI-72 OVER NEW RAY & T.R. 117
FAI-72 SEC 58-62 HVB PROJ
STA. 534+00 TO 534+99.99

MACON CO

HOMER L. CHASTAIN & ASSOCIATES
CONSULTING ENGINEERS
DECATUR, ILLINOIS

CONTRACT NO. 74D08

SHEET NO. 32

(Sheet 7 of 7)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS - FOR INFORMATION ONLY
SN 058-0071 (EB)

SHEET 36 OF 36 SHEETS

FAI-72	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	D7 BRIDGE REPAIRS 2026-3	MACON	108	108
ILLINOIS FED. AID PROJECT				



USER NAME = nhc
ESCA PROJECT NO. = 1445.01
PLOT SCALE = 0.2" = 1'-0"
PLOT DATE = 1/20/2026

DESIGNED - ELH 07/25
CHECKED - RDP 07/25
DRAWN - NHC 07/25
CHECKED - ELH 07/25

REVISED -
REVISED -
REVISED -
REVISED -