

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	[(50-4)BR]BR	LASALLE	45	1
		ILLINOIS	CONTRACT NO. 66M33	

INDEX OF SHEETS

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- 26-38 STRUCTURE 050-0132 BRIDGE PLANS
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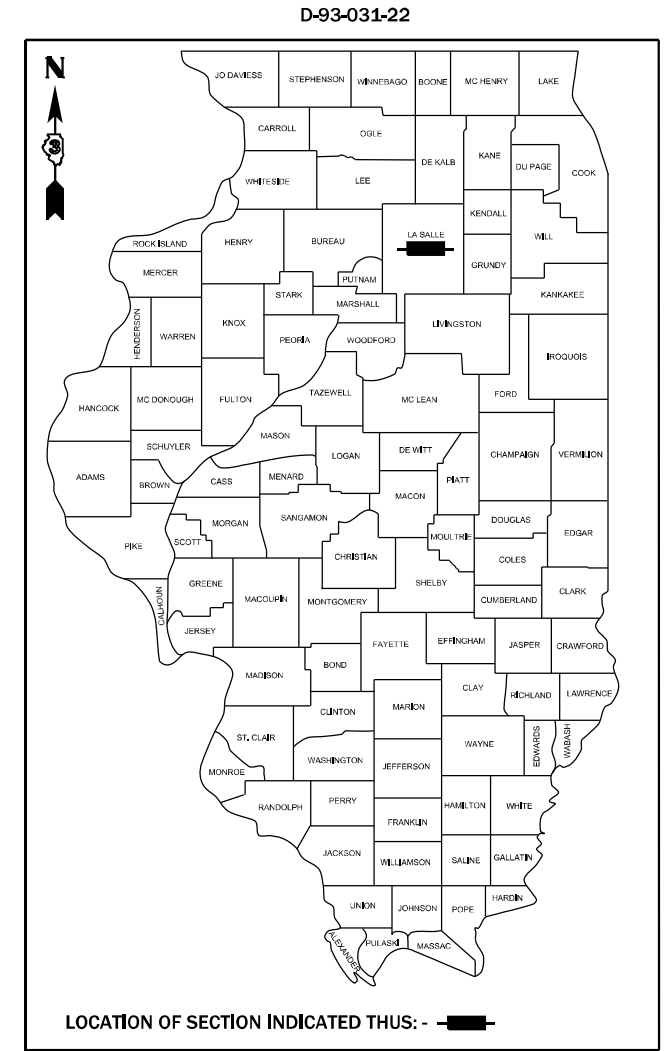
LIST OF ILLINOIS DOT HIGHWAY STANDARDS

- 000001-08 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 001001-02 AREAS OF REINFORCEMENT BARS
- 001006 DECIMAL OF AN INCH AND OF A FOOT
- 442101-09 CLASS B PATCHES
- 701400-11 APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
- 701402-12 LANE CLOSURE, FREEWAY/EXPRESSWAY, WITH BARRIER
- 701426-09 LANE CLOSURE, MULTILANE INTERMITTENT OR MOVING OPERATION, FOR SPEEDS > 45 MPH
- 701428-01 TRAFFIC CONTROL, SETUP AND REMOVAL, FREEWAY/EXPRESSWAY
- 701901-08 TRAFFIC CONTROL DEVICES
- 704001-08 TEMPORARY CONCRETE BARRIER
- 781001-04 TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
- 782006-01 GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

PROPOSED HIGHWAY PLANS

FAI ROUTE 80 (I-80)
SECTION [(50-4)BR]BR
PROJECT NHPP-1HU2(760)
LATEX OVLY, EXP JOINT REPL & DECK REPAIR
LASALLE COUNTY

C-93-099-22



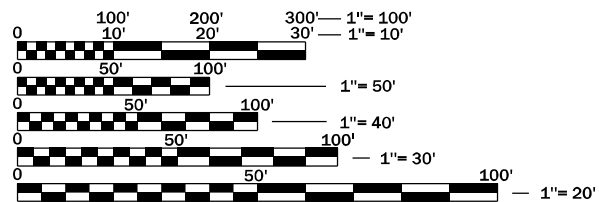
FUNCTIONAL CLASSIFICATION
INTERSTATE
2021 ADT = 30,900
P.V. = 72.5% S.U. = 22.3% M.U. = 5.2%

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED February 3, 2023
Masood Ahmad
REGIONAL ENGINEER

March 24, 2023
[Signature]
ENGINEER OF DESIGN AND ENVIRONMENT

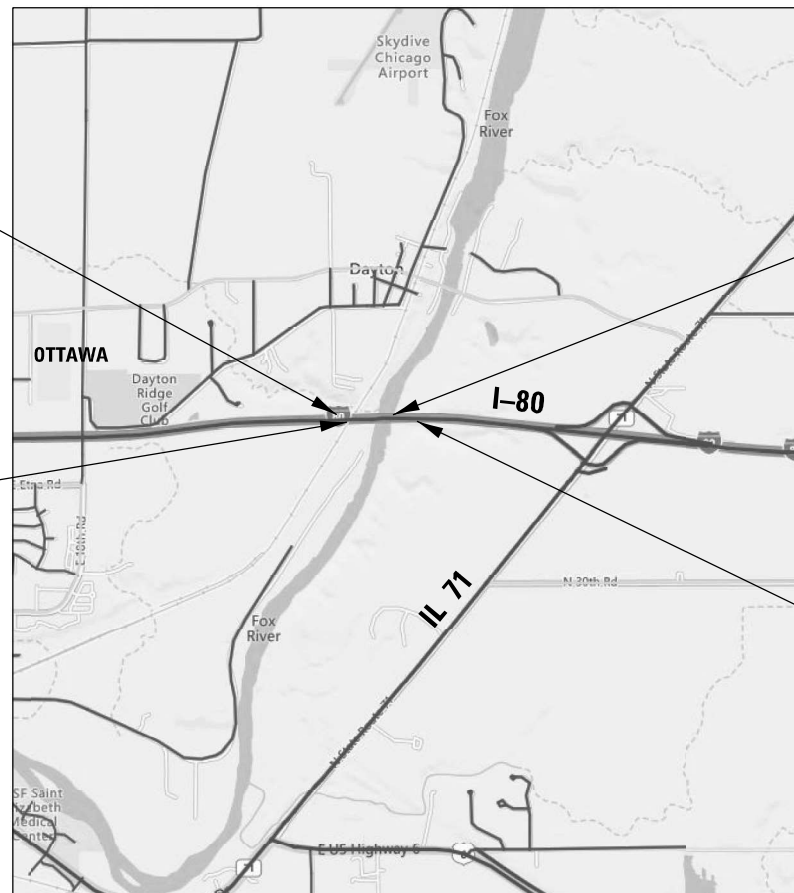
March 24, 2023
[Signature]
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION



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

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

PROJECT ENGINEER: BRAD DUNCAN P.E.
UNIT CHIEF: MOHAMED YOUSIF
DISTRICT 3 NO. (815) 434-6131
CONTRACT NO. 66M33



PROJECT START
STA 589 + 26.01

SN 050-0011 EB
SN 050-0012 WB
CL 590 + 86.53

SN 050-0231 WB
SN 050-0232 EB
CL 597 + 54

PROJECT END
STA 601 + 91.68

GROSS LENGTH = 1266 FT. = 0.24 MILE
NET LENGTH = 1266 FT. = 0.24 MILE

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

GENERAL NOTES

EXCEPT AS NOTED ON THE PLANS, PAVEMENT GRADES SHOWN ARE AT THE TOP OF PAVEMENT SURFACES.

THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES:

SHORT TERM PAVEMENT MARKING	10	FT /100 FT OF APPLICATION
HMA RESURFACING	112	LBS / SQ YD / IN

COMMITMENTS

NONE

HMA MIXTURE REQUIREMENT TABLE

LOCATIONS:	ENTIRE PROJECT
MIXTURE USE(S):	HMA SURFACE
BINDER GRADE (PG):	SBS PG 70-28
DESIGN AIR VOIDS:	4.0% @ N90
MIXTURE COMPOSITION: (MIXTURE GRADATION)	IL 9.5
FRICTION AGGREGATE:	MIXTURE D
MIXTURE WEIGHT:	112.0 LB/SY/IN
QUALITY MANAGEMENT PROGRAM:	QCQA
SUBLOT SIZE:	N/A
DENSITY TEST METHOD:	SATISFACTION OF ENGINEER
MATERIAL TRANSFER DEVICE (REQUIRED)	NO

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DISTRICT THREE
AS BUILT INFORMATION

SUPERVISING CONSTRUCTION FIELD ENGINEER

RESIDENT ENGINEER / TECHNICIAN

START & END DATES
OF CONSTRUCTION:

INSPECTORS:

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DISTRICT THREE

PREPARED BY: _____
DISTRICT STUDIES & PLANS ENGINEER

DATE: _____

EXAMINED BY: _____
DISTRICT CONSTRUCTION ENGINEER

DISTRICT MATERIALS ENGINEER

DISTRICT OPERATIONS ENGINEER

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	DRAWN -	REVISED -
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PLOT DATE = 2/2/2023	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

GENERAL NOTES

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	[(50-4)BR]BR	LASALLE	45	2
			CONTRACT NO. 66M33	
		ILLINOIS	FED. AID PROJECT	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				NHPP 90% FED / 10% STATE	NHPP 90% FED / 10% STATE
				BRIDGE	BRIDGE
				0047	0047
				050-0231	050-0232
20800150	TRENCH BACKFILL	CY YD	14.2	7.1	7.1
28100105	STONE RAP, CLASS A3	SQYD	88	44	44
28200200	FILTER FABRIC	SQYD	88	44	44
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	1188	594	594
40600370	LONGITUDINAL JOINT SEALANT	FOOT	1840	920	920
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	0.4	0.2	0.2
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQYD	560	280	280
40600901	HOT-MIX ASPHALT BINDER COURSE (HAND METHOD), N 70	TON	0.4	0.2	0.2
40600985	PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT	SQYD	560	280	280
40600990	TEMPORARY RAMP	SQ YD	172	86	86
40604164	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MK 'D', N90	TON	48	24	24
40603085	HOT - MIX ASPHALT BINDER COURSE, IL - 19.0, N 70	TON	144	72	72
42001300	PROTECTIVE COAT	SQYD	6654	3327	3327
40604062	HOT - MIX ASPHALT SURFACE COURSE, IL 9.5, MIX "D", N	TON	72	36	36
44000300	70 CURB REMOVAL	FOOT	24	12	12
44000173	HOT - MIX ASPHALT SURFACE REMOVAL, 6"	SQ YD	640	320	320
44201031	CLASS B PATCHES, TYPE II, 15 INCH	SQYD	24	12	12
44201299	DOWEL BARS 1 1/2"	EACH	56	28	28

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PLOT DATE = 2/2/2023	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

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

F A L R T E. I	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
50	1(50-4)BRJBR	LASALLE	4s	3
			CONTRACT NO 66M33	
ILLINOIS I FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				NHPP	NHPP
				90% FED /10% STATE	90% FED /10% STATE
				BRIDGE	BRIDGE
				0047	0047
				050-0231	050-0232
44213200	SAWCUTS	FOOT	156	78	78
50157300	PROTECTIVE SHIELD	SQ YD	4230	2115	2115
50102400	CONCRETE REMOVAL	CUYD	16	8	8
50300255	CONCRETE SUPERSTRUCTURE	CU YD	16	8	8
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	2600	1300	1300
50800515	BAR SPLICERS	EACH	24	12	12
52000110	PREFORMED JOINT STRIP SEAL	FOOT	180	90	90
60300105	FRAMES AND GRATES TO BE ADJUSTED	EACH	6	3	3
60601105	CONCRETE CURB, TYPE M	FOOT	24	12	12
64200116	SHOULDER RUMBLE STRIPS, 16 INCH	FOOT	760	380	380
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MD	9	4	5
67100100	MOBILIZATION	LSUM	1	0.5	0.5
70100207	TRAFFIC CONTROL AND PROTECTION, STANDARD 701402	EACH	2	1	1

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PLOT DATE = 2/2/2023	CHECKED -	REV(SED) -
	DATE -	REV(SED) -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES	
SCALE:	SHEET OF SHEETS! STA. TO STA.

F A L R T E. I	SECT[ON	COUN1Y	TOTAL:1 SHEET
SO	I(50-4)BR]BR	LASALLE	4s 4
		CONTRACT NO. 66M33	
I ILLINOIS I FED. AID PROJECT			

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				NHPP 90% FED / 10% STATE	NHPP 90% FED / 10% STATE
				BRIDGE 0047	BRIDGE 0047
				050-0231	050-0232
70300100	SHORT TERM PAVEMENT MARKING	FOOT	536	268	268
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQFT	178	89	89
70301120	TEMPORARY PAVEMENT MARKING- LINE 4" - EPOXY	FOOT	10228	5114	5114
70400100	TEMPORARY CONCRETE BARRIER	FOOT	2775	1375	1400
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	2775	1375	1400
70600250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	1	1
70600350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	1	1
* 78009004	MODIFIED URETHANE PAVEMENT MARKING- LINE 4"	FOOT	10228	5114	5114
* 78004630	PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - LINE 6"	FOOT	1278	639	639
* 78011025	GROOVING FOR RECESSED PAVEMENT MARKING 5"	FOOT	10228	5114	5114
* 78011035	GROOVING FOR RECESSED PAVEMENT MARKING 7"	FOOT	1278	639	639
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	128	64	64
* 78200011	BARRIER WALL REFLECTORS, TYPE C	EACH	222	110	112
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	128	64	64

*= SPECIALTY ITEM

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PLOT DATE = 2/2/2023	DATE -	REV(SED) -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

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

F A L RTE. I	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SO	I(50-4)BR]BR	LASALLE	4s	5
		CONTRACT NO. 66M33		
ILLINOIS FED. AID PROJECT				

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CONSTRUCTION CODE	
NHPP 90% FED / 10% STATE	NHPP 90% FED / 10% STATE
BRIDGE 0047	BRIDGE 0047
050-0231	050-0232

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	BRIDGE 0047 050-0231	BRIDGE 0047 050-0232
78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQFT	7456	3728	3728
X0325748	ACRYLIC COATING	SQYD	19	15	4
X0325749	FIBER WRAP	SQFT	171	135	36
X0328004	REAL-TIME TRAFFIC CONTROL SENSOR UNIT	WEEK	104	52	52
X2700001	TEMPORARY RUMBLE STRIPS (SPECIAL)	X EACH	8	4	4
X5030250	BRIDGE DECK GROOVING (LONGITUDINAL)	SQYD	3988	1994	1994
X5427602	REMOVE EXISTING FLARED END SECTION	EACH	4	2	2
X5503101	PLUG EXISTING PIPE	CUYD	1	0.5	0.5
X6050500	REMOVE FRAME AND GRATES, SPECIAL	EACH	4	2	2
X6350206	LINEAR DELINEATOR PANELS, 6"	EACH	40	20	20
X7010239	CHANGEABLE MESSAGE SIGN, SPECIAL	CAL WK	104	52	52
X8570002	SMART TRAFFIC MONITORING SYSTEM	CAL WK	104	52	52
X8570004	SMART TRAFFIC MONITORING DEVICE	CAL WK	104	52	52
Z0006014	BRIDGE DECK LATEX CONCRETE OVERLAY, 2 1/2 INCHES	SQYD	6646	3323	3323

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PLOT DATE = 2/3/2023	DATE -	REV(SED) -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: SHEET OF SHEETS STA. TO STA.

F A L RTE. I	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
50	I(50-4)BR]BR	LASALLE	4s	6
			CONTRACT NO. 66M33	
ILLINOIS I FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				NHPP	NHPP
				90% FED / 10% STATE	90% FED / 10% STATE
				BRIDGE	BRIDGE
				0047	0047
				050-0231	050-0232
Z0012130	BRIDGE DECK SCARIFICATION 3/4"	SQYD	6646	3323	3323
Z0016001	DECK SLAB REPAIR (FULL DEPTH, TYPE I)	SQYD	2	1	1
Z0016002	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQYD	57	44	13
Z0029090	DIAMOND GRINDING (BRIDGE SECTION)	SQYD	5982	2991	2991
Z0043800	PRECAST PRESTRESSED CONCRETE I-BEAM REPAIR	SOFT	38	26	12

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

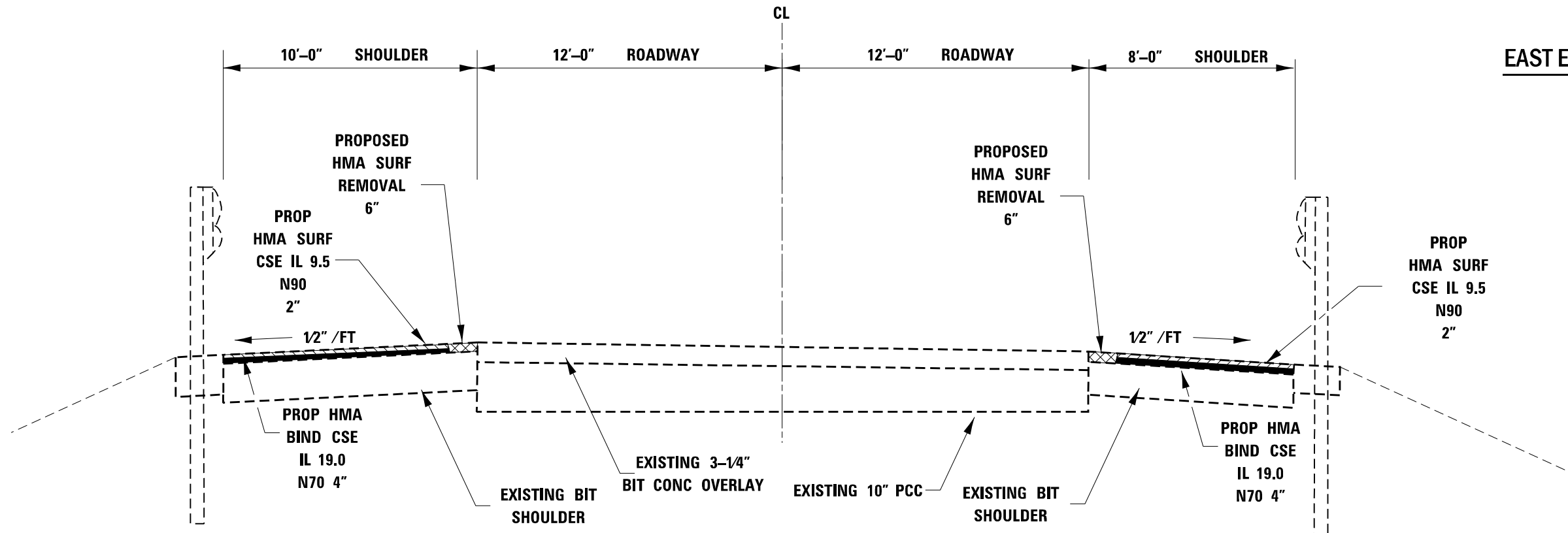
SUMMARY OF QUANTITIES	
SCALE:	SHEET OF SHEETS STA. TO STA.

F A L	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
RD	I(50-4)BR]BR	LASALLE	4s	7
			CONTRACT NO. 66M33	
ILLINOIS FEDERAL AID PROJECT				

**TYPICAL SECTION 1A
EAST END OF STRUCTURES (PRE-STAGE SHLD)**

WESTBOUND I-80
STA 601+91.68 TO 603+51.68

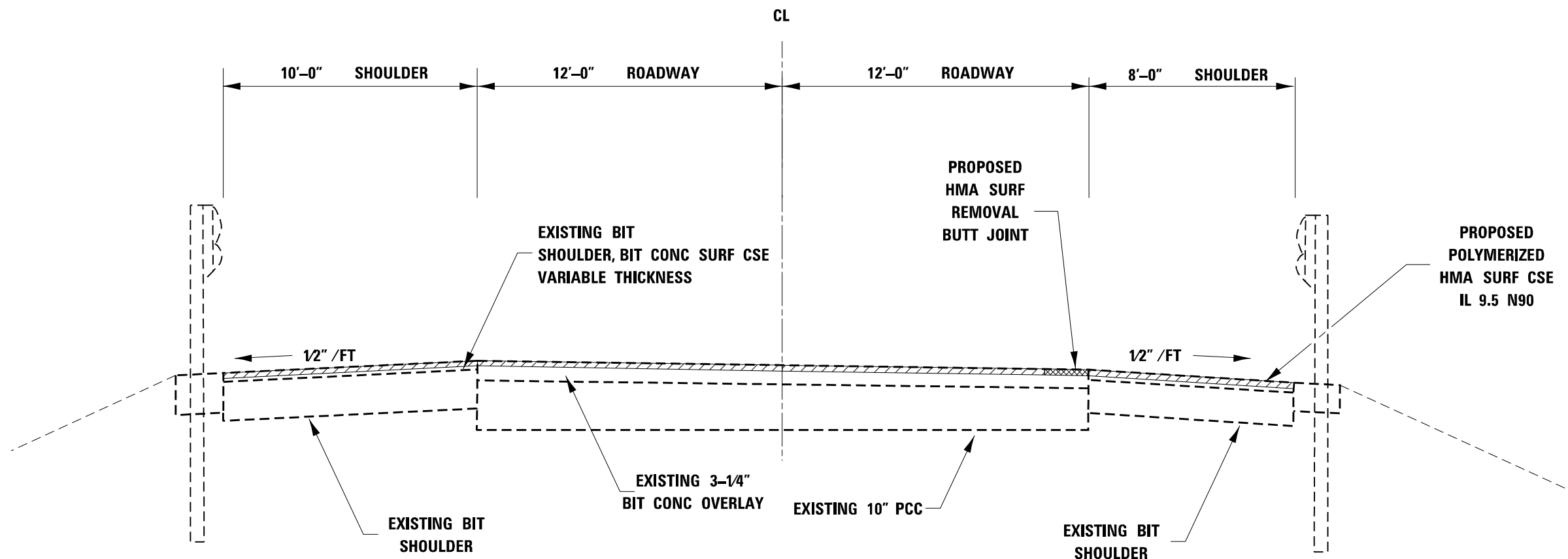
EASTBOUND I-80
(MIRROR IMAGE OF LEFT DRAWING)
STA 601+73.32 TO 603+33.32



**TYPICAL SECTION 1B
EAST END OF STRUCTURES (TAPER)**

WESTBOUND I-80
STA 601+31.68 TO 601+91.68

EASTBOUND I-80
(MIRROR IMAGE OF LEFT DRAWING)
STA 601+13.32 TO 601+73.32



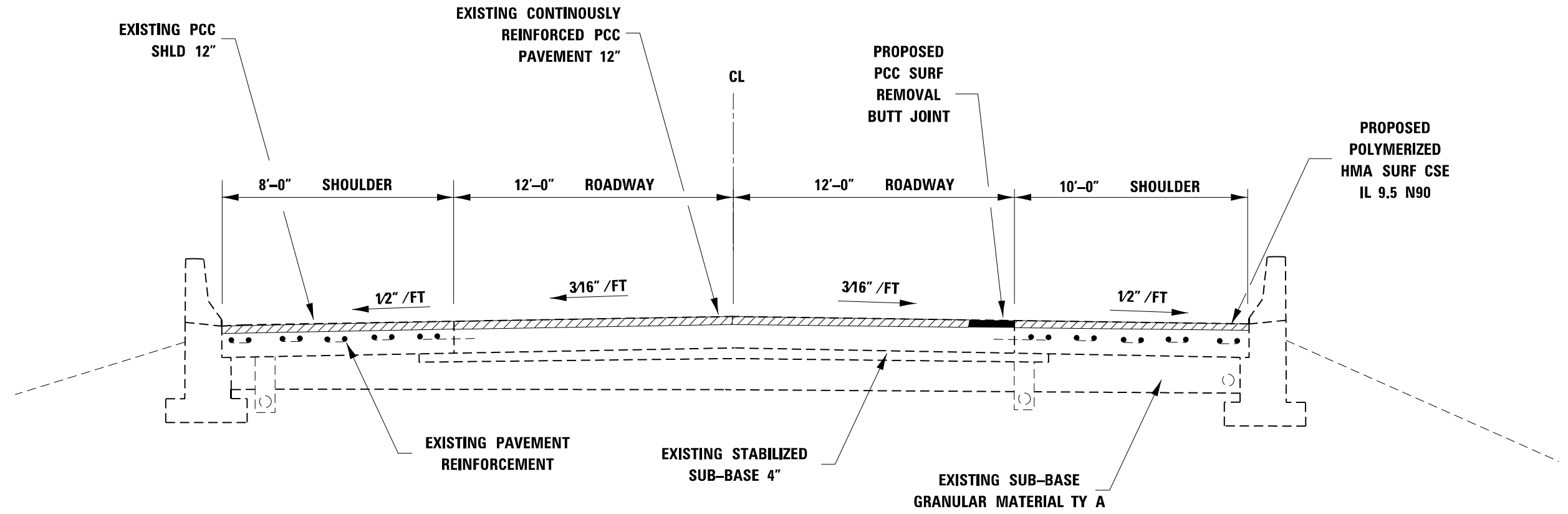
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TYPICAL SECTION	
SCALE:	SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	[(50-4)BR]BR	LASALLE	45	8
CONTRACT NO. 66M33			ILLINOIS FED. AID PROJECT	



TYPICAL SECTION 2 - WEST END OF STRUCTURES

**WESTBOUND I-80
STA 593 + 28.68 TO 593 + 88.68**

**EASTBOUND I-80
(MIRROR IMAGE OF ABOVE DRAWING)
STA 593 + 10.32 TO 593 + 70.32**

*** SEE TAPER DETAIL PAGE**

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

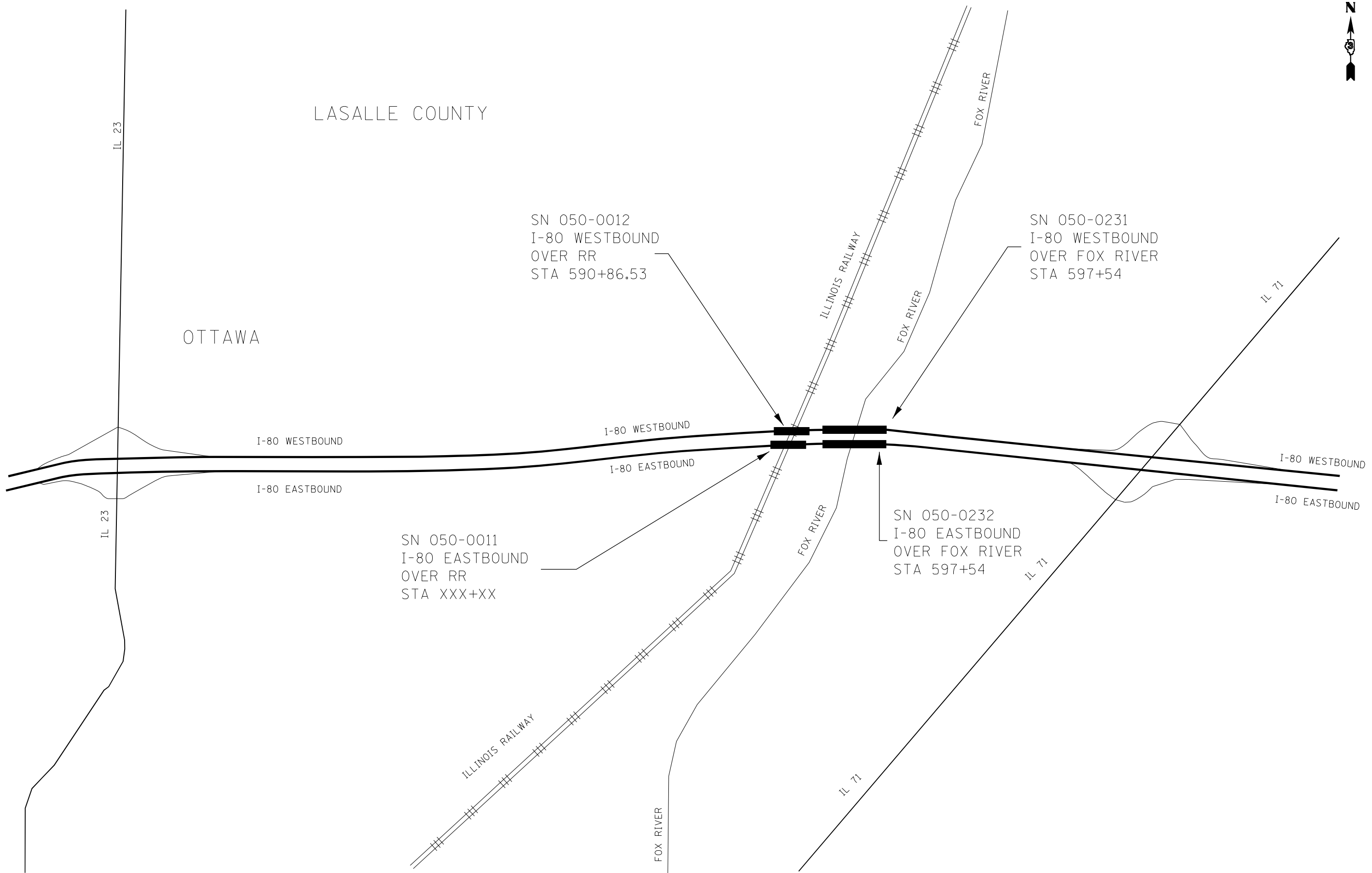
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SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	[(50-4)BR]BR	LASALLE	45	9
CONTRACT NO. 66M33				
ILLINOIS FED. AID PROJECT				



LASALLE COUNTY

OTTAWA



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

LINE DIAGRAM

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	((50-4)BR)BR	LASALLE	45	10
CONTRACT NO. 66M33				
ILLINOIS FED. AID PROJECT				

RIPRAP CHUTES SCHEDULE															
LOCATION			PATCH LENGTH	PATCH WIDTH	REM EX FLARED END SEC	REMOVE FRAME AND GRATES (SPECIAL)	CURB REMOVAL	CONCRETE CURB TYPE M	STONE RIPRAP, CLASS A3	FILTER FABRIC	TRENCH BACKFILL	CLASS B PATCHES T2, 15"	DOWEL BARS 1.5"	SAW CUTS	PLUG EXISTING PIPE
STRUCTURE	QUADRANT	INLET TYPE	FT	FT	EACH	EACH	FOOT	FOOT	SQ YD	SQ YD	CU YD	SQ YD	EACH	FOOT	CU YD
SN 050-0232 (EB)	NORTHEAST	C	6	10	1	1	6	6	22	22	2.7	7	16	42	0.25
	SOUTHEAST	D	6	8	1	1	6	6	22	22	4.4	5	12	36	0.25
SN 050-0231 (WB)	NORTHEAST	D	6	8	1	1	6	6	22	22	4.4	5	12	36	0.25
	SOUTHEAST	C	6	10	1	1	6	6	22	22	2.7	7	16	42	0.25
TOTAL					4	4	24	24	88	88	14.2	24	56	156	1

TAPER SCHEDULE													
LOCATION		LENGTH	HMA WIDTH	RESURF AREA	HMA SURF REM-BUTT JT	PCC SURF REM-BUTT JT	POLYMERIZED HMA SURF CSE, IL 9.5, MIX D, N90 (1-1/2")	BRIDGE DECK LATEX CONC OVERLAY	BIT MATL (TACK COAT)	LONG JOINT SEAL	TEMP RAMP	SHLD RUMBLE STRIPS 16"	
STATION	SIDE OF STRUCTURE	FOOT	FOOT	SQ FT	SQ YD	SQ YD	TON	SQ YD	POUND	FOOT	SQ YD	FOOT	
SN 050-0231 (WESTBOUND)													
STA 601+31.68 TO STA 601+91.68	EAST	60	42	2520	280		24		189	300	23	60	
STA 593+34.68 TO STA 593+94.68	WEST	60	42	2520		280		280	189	300	23		
SUBTOTAL					280	280	24	280	378	600	46	60	
SN 050-0232 (EASTBOUND)													
STA 601+13.32 TO STA 601+73.32	EAST	60	42	2520	280		24		189	300	23	60	
STA 593+16.32 TO STA 593+76.32	WEST	60	42	2520		280		280	189	300	23		
SUBTOTAL					280	280	24	280	378	600	46	60	
TOTAL					560	560	48	560	756	1200	92	120	

MAINTENANCE OF TRAFFIC SCHEDULE						
LOCATION		TEMPORARY CONCRETE BARRIER	RELOCATE TEMPORARY CONCRETE BARRIER	IMPACT ATTENUATORS, TEMP (NON-REDIRECTIVE), TEST LEVEL 3	IMPACT ATTENUATORS RELOCATE (NON- RED) TEST LEVEL 3	BARRIER WALL REFLECTOR, TYPE C
STRUCTURE NO	STAGE	FOOT	FOOT	EACH	EACH	EACH
050-0231	1	1,375.0		1		55
	2		1,375.0		1	55
050-0232	1	1,400.0		1		56
	2		1,400.0		1	56
TOTAL		2,775	2,775	2	2	222

TEMPORARY CONCRETE BARRIER WESTERN LIMITS START AT WEST PCC CONNECTOR OF RR BRIDGES

PRE-STAGING SCHEDULE EAST SIDE OF RIVER BRIDGES													
LOCATION			LENGTH	WIDTH	HMA SURF REM 6"	HMA BINDER CSE IL 19.0 N70 (4")	HMA SURF CSE IL 9.5 MIX D, N70 (2")	BIT MATL (TACK COAT)	MIX FOR CRACKS, JOINTS AND FLANGEWAYS	HMA BINDER CSE (HM) N70	LONG JOINT SEAL	TEMP RAMP	SHLD RUMBLE STRIPS 16"
STRUCTURE NO	LANE	STATION	FOOT	FOOT	SQ YD	TON	TON	POUND	TON	TON	FOOT	SQ YD	FOOT
050-0231 (WB)	RT	STA 601+91.68 TO 603+51.68	160	10	178	40	20	120	0.1	0.1	160	22	160
	LT	STA 601+91.68 TO 603+51.68	160	8	142	32	16	96	0.04	0.1	160	18	160
SUBTOTAL					320	72	36	216	0.2	0.2	320	40	320
050-0232 (EB)	RT	STA 601+73.32 TO 603+33.32	160	10	178	40	20	120	0.1	0.1	160	22	160
	LT	STA 601+73.32 TO 603+33.32	160	8	142	32	16	96	0.04	0.1	160	18	160
SUBTOTAL					320	72	36	216	0.2	0.2	320	40	320
TOTAL					640	144	72	432	0.4	0.4	640	80	640

PRE-STAGING OF SHOULDER WORK BEGINS AT THE EASTERN TAPER LIMITS

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USER NAME = Cassandra.Nolasco	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCHEDULE OF QUANTITIES				F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED -						80	[(50-4)BR]BR	LASALLE	45	11
PLOT DATE = 3/3/2023	CHECKED -	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.				CONTRACT NO. 66M33				
	DATE -	REVISED -						ILLINOIS FED. AID PROJECT				

PERMANENT PAVEMENT MARKING SCHEDULE										
LOCATION			LENGTH	MODIFIED URETHANE PM - LINE 4"		PREFORMED PLASTIC PM, TYPE D - LINE 6"	GROOVING FOR RECESSED PAVEMENT MARKING		RAISED REF PM	RAISED REF PM REM
				(WHITE)	(YELLOW)		5"	7"		
STRUCTURE NO	LANE	TYPE	FOOT	FOOT	FOOT	FOOT	FOOT	EACH	EACH	
050-0231	RT	WHITE EDGE	2,557	2,557		639	2,557	639	64	64
	LT	YELLOW EDGE	2,557		2,557		2,557			
050-0232	RT	WHITE EDGE	2,557	2,557		639	2,557	639	64	64
	LT	YELLOW EDGE	2,557		2,557		2,557			
TOTAL				10,228		1,278	10,228	1,278	128	128

SHORT TERM PAVEMENT MARKING SCHEDULE						
LOCATION			LENGTH	PM REM-WATER BLASTING	SHORT TERM PM	SHORT TERM PM REM
050-0231	RT	WHITE EDGE	2,557	852	102	34
	LI	YELLOW EDGE	2,557	852	102	34
	CL	WHITE SKIP	639	320	64	21
050-0232	RT	WHITE EDGE	2,557	852	102	34
	LT	YELLOW EDGE	2,557	852	102	34
	CL	WHITE SKIP	639	320	64	21
TOTAL				4048	536	178

TEMP PAVEMENT MARKING SCHEDULE						
LOCATION			LENGTH	TEMP PM-LINE-4"-EPOXY		PM REM-WATER BLASTING
				(WHITE)	(YELLOW)	
STRUCTURE NO	LANE	TYPE	FOOT	FOOT	FOOT	SQ FT
050-0231	RT	WHITE EDGE	2,557	2,557		852
	LT	YELLOW EDGE	2,557		2,557	852
050-0232	RT	WHITE EDGE	2,557	2,557		852
	LT	YELLOW EDGE	2,557		2,557	852
TOTAL				10228		3408

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USER NAME = Cassandra.Nolasco	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 3/14/2023	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES

SCALE: SHEET OF SHEETS STA. TO STA.

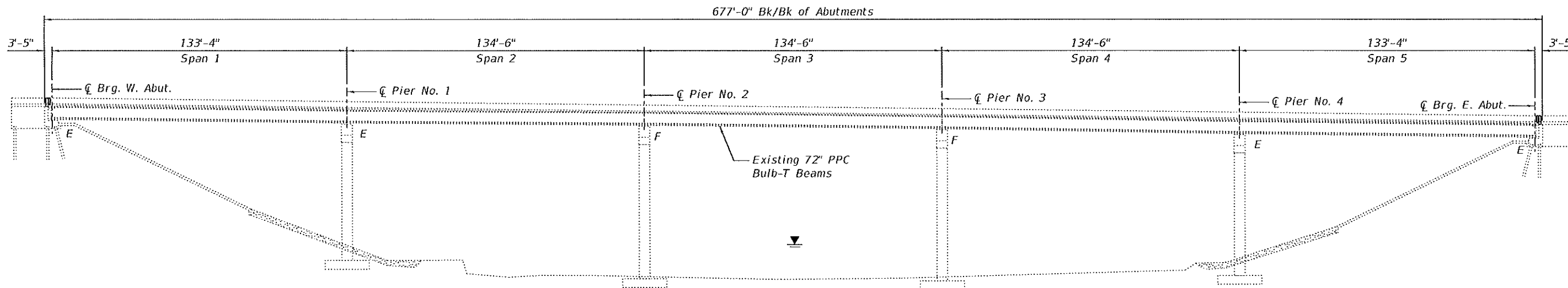
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	[(50-4)BR]BR	LASALLE	45	12
			CONTRACT NO. 66M33	
		ILLINOIS	FED. AID PROJECT	

Existing Structure: S.N. 050-0231 (WB) and S.N. 050-0232 (EB), built in 1994 under Section (50-4) BR are five-span skewed dual structures measuring 677'-0" from back to back of abutment and 43'-2" from out to out deck width. The superstructure consists of 72" PC Bulb-T beams supporting a 7 1/2" reinforced concrete deck. The substructure contains stub abutments on concrete piles and hammerhead piers on spread footings. Traffic will be maintained using stage construction.

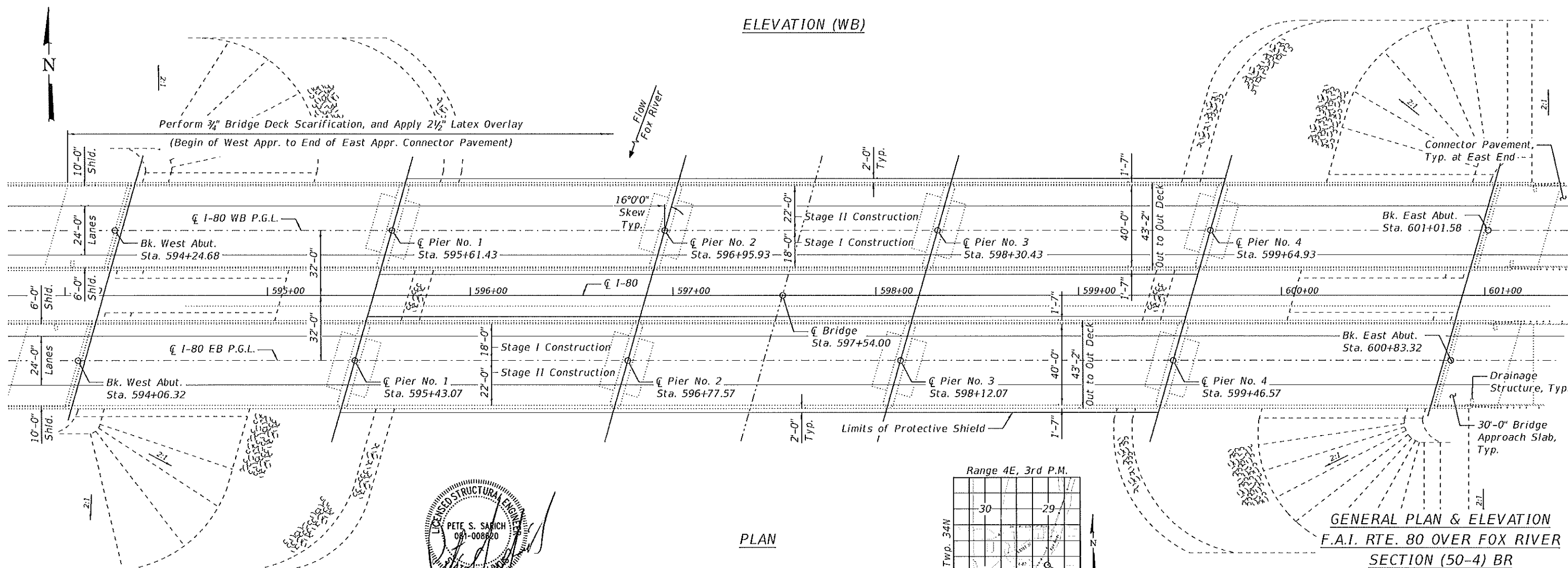
No Salvage

SCOPE OF WORK

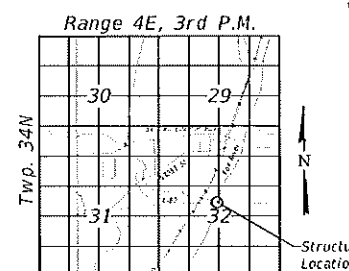
1. Scarify existing bridge deck, approach slabs, and pavement connectors.
2. Complete deck patch repairs.
3. Remove and replace expansion joints at abutments.
4. Apply latex concrete overlay on bridge deck, approach slabs, and pavement connectors.
5. Apply protective coat on new concrete areas and overlay limits.
6. Complete beam end repairs with fiber wrap.



ELEVATION (WB)



PLAN



LOCATION SKETCH

GENERAL PLAN & ELEVATION
F.A.I. RTE. 80 OVER FOX RIVER
SECTION (50-4) BR
LASALLE COUNTY
STATION 597+54.00
STR. NO. 050-0231 (WB)

LICENSED STRUCTURAL ENGINEER
PETE S. SARICH
 081-008820
 STATE OF ILLINOIS
 EXPIRATION DATE: 11-30-2024
 DATE: 03-21-2023



USER NAME	SARICHS	DESIGNED	NWB	REVISED	
PLOT SCALE	1/8" = 1'-0"	DRAWN	NWB	REVISED	
PLOT DATE	3/20/2023	CHECKED	KES	REVISED	
		DATE	11/17/22	REVISED	

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
 STRUCTURE NO. 050-0231 (WB)

SCALE: SHEET 1 OF 26 SHEETS STA. 597+54.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(50-4) BR	LA SALLE	45	13
			CONTRACT NO. 66M33	
		ILLINOIS FED. AID PROJECT		

MODEL: WB Plan
 FILE NAME: D:\Projects\66M33\66M33_10\Transportation\02_Engineering_Services\01\02_Structures\10_Bldg_CADD\01_Work\10_3_1-WB_GPC

GENERAL NOTES

- Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
- Joint openings shall be adjusted according to Article 520.04 of the Std. Specs. when the deck is poured at an ambient temperature other than 50° F.
- Reinforcement bars designated (E) shall be epoxy coated.
- Protective coat shall be applied to the top and inside faces of new concrete barriers and over limits of latex concrete overlay.
- Prior to pouring the new concrete deck: all heavy or loose rust, loose mill scale, and other loose potentially detrimental foreign material shall be removed from the surface in contact with concrete. Removal shall be accomplished by methods that will not damage the PPC Beam and the cost will be included with the pay item covering removal of existing concrete.
- The Contractor shall use extreme care during concrete removal operations so the existing PPC beams are not damaged. If the beams are damaged due to the Contractor's operations, they shall be repaired to the satisfaction of the Engineer at no expense to the Department.
- Removal of the existing expansion joint steel, anchor studs and expansion material shall not be paid for separately but shall be included in the cost of Concrete Removal.
- All exposed concrete edges shall have a 3/4" chamfer, except where shown otherwise.
- Expansion joint shall be fabricated to conform to the existing cross slopes of the bridge.
- Acrylic coating shall be placed over Fiber Wrap repairs. Two coats shall be applied.

INDEX OF SHEETS

- General Plan and Elevation
- General Notes, Total Bill of Material and Index of Sheets
- Staged Construction Details
- Temporary Concrete Barrier for Staged Construction
- Deck Removal
- Deck Repairs
- Deck Repairs - As Built
- Deck Reconstruction Plan
- Deck Reconstruction Details
- Bar Splice Assembly and Mechanical Splicer Details
- Preformed Joint Strip Seal Details
- PPC Beam Repair Details
- Approach Shoulder Inlet Details

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Concrete Removal	Cu. Yd.	8.0	-	8.0
Protective Shield	Sq. Yd.	2,115	-	2,115
Concrete Superstructure	Cu. Yd.	8.0	-	8.0
Protective Coat	Sq. Yd.	3,327	-	3,327
Reinforcement Bars, Epoxy Coated	Pound	1,300	-	1,300
Bar Splicers	Each	12	-	12
Preformed Joint Strip Seal	Foot	90	-	90
Frames And Grates To Be Adjusted	Each	3	-	3
Acrylic Coating	Sq. Yd.	15	-	15
Fiber Wrap	Sq. Ft.	135	-	135
Bridge Deck Grooving (Longitudinal)	Sq. Yd.	1,994	-	1,994
Bridge Deck Latex Concrete Overlay, 2 1/2"	Sq. Yd.	3,323	-	3,323
Bridge Deck Scarification 3/4"	Sq. Yd.	3,323	-	3,323
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	1	-	1
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	44	-	44
Diamond Grinding (Bridge Section)	Sq. Yd.	2,991	-	2,991
Precast Prestressed Concrete I-Beam Repair	Sq. Ft.	26	-	26

MODEL: NB General Notes
FILE NAME: p:\c\m\m\66m33\Drawings\02_Engineering_Services\10_BIM_CADD\01_Working\WO 3 180666M33_WO 3A.WB General Notes



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PLOT DATE = 3/21/2023	DATE - 11/17/22	REVISED -

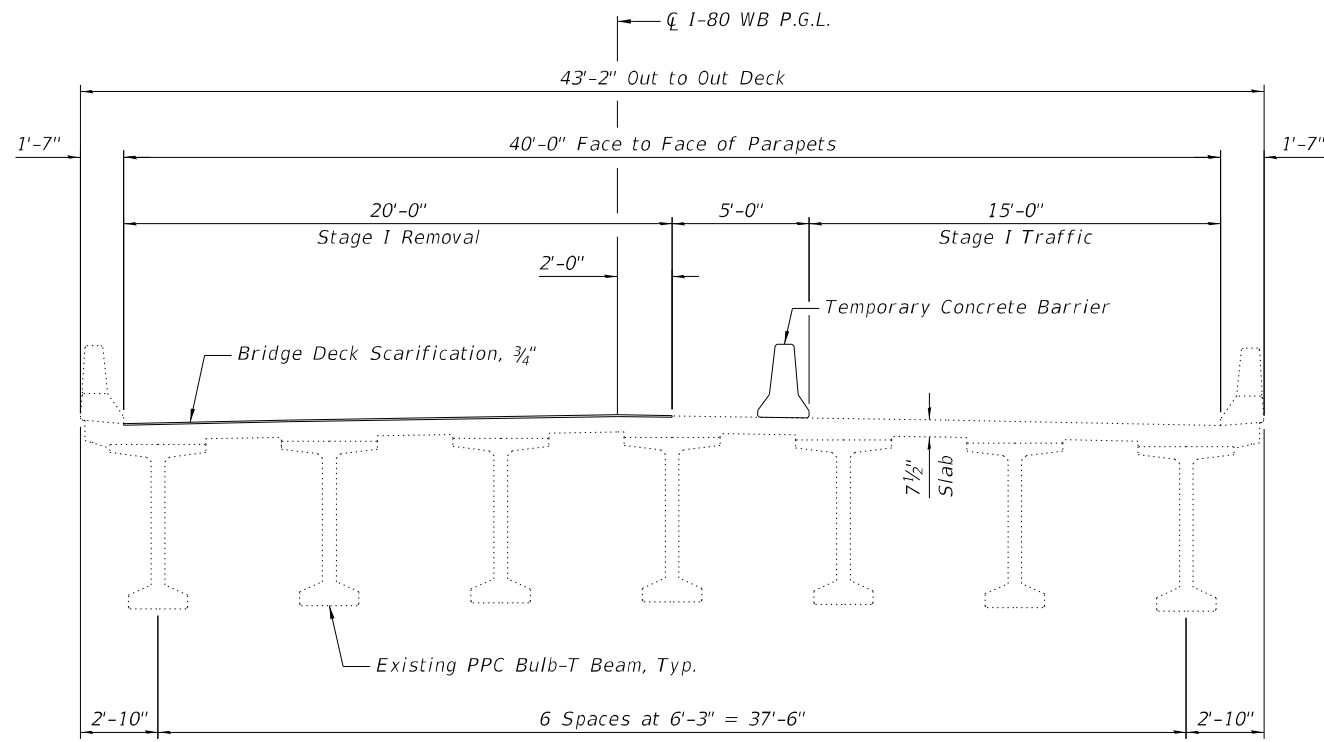
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

GENERAL NOTES, TOTAL BILL OF MATERIALS AND INDEX OF SHEETS
STRUCTURE NO. 050-0231 (WB)

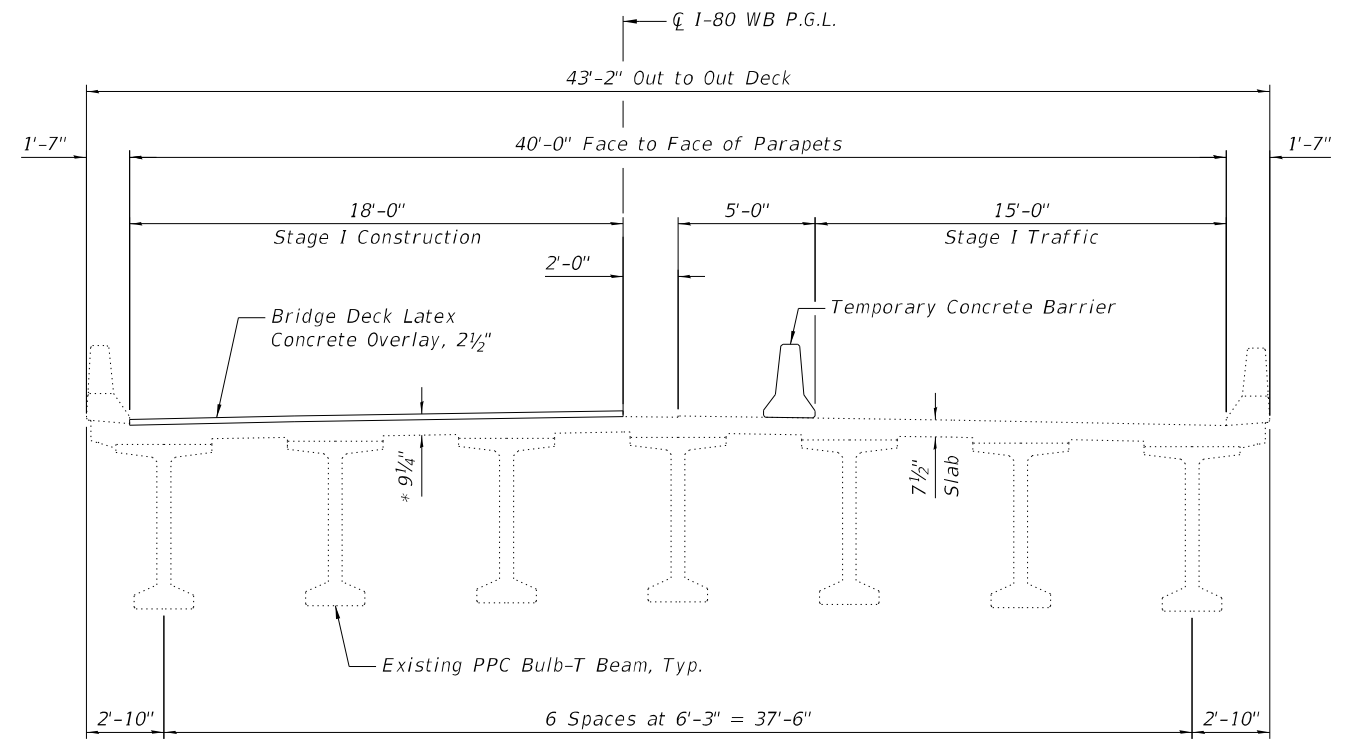
SCALE: SHEET 2 OF 26 SHEETS STA. 597+54.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(50-4) BR	LA SALLE	45	14
ILLINOIS FED. AID PROJECT			CONTRACT NO. 66M33	

MODEL: WB Stage Construction
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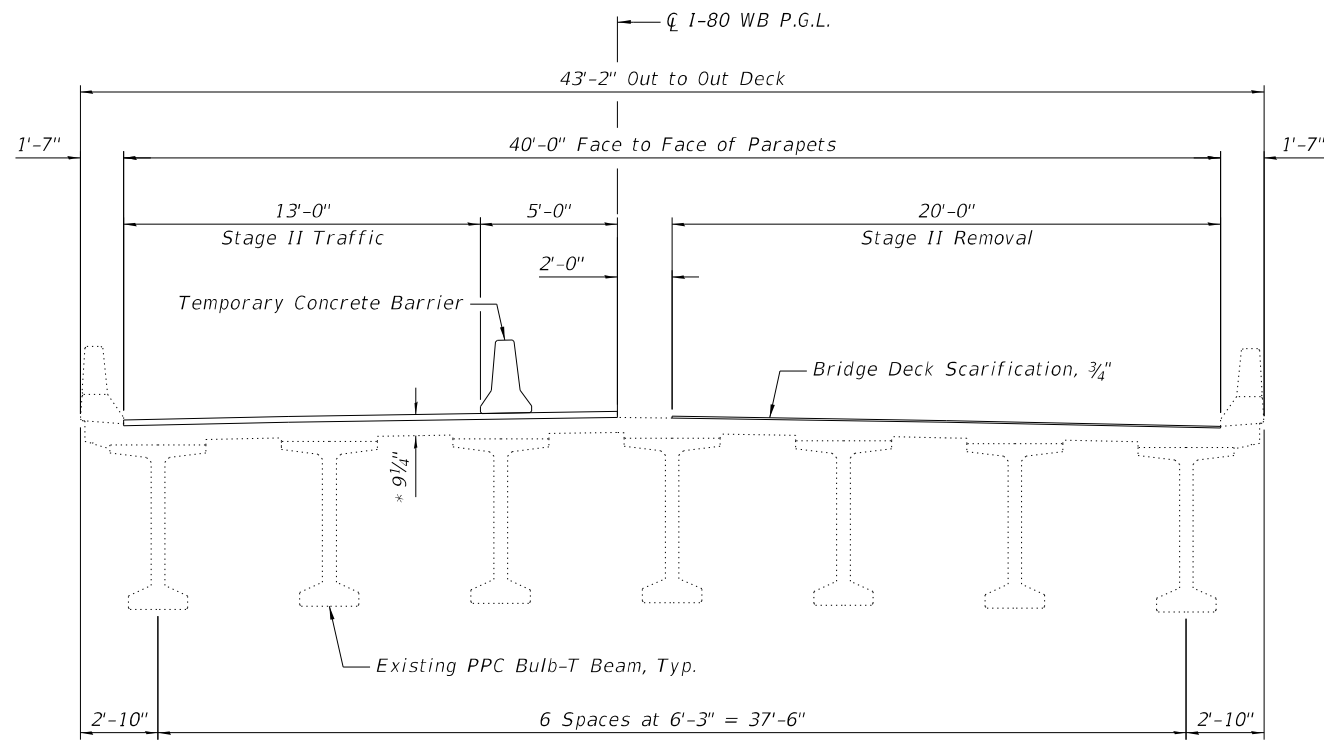


STAGE I REMOVAL
(Looking West)



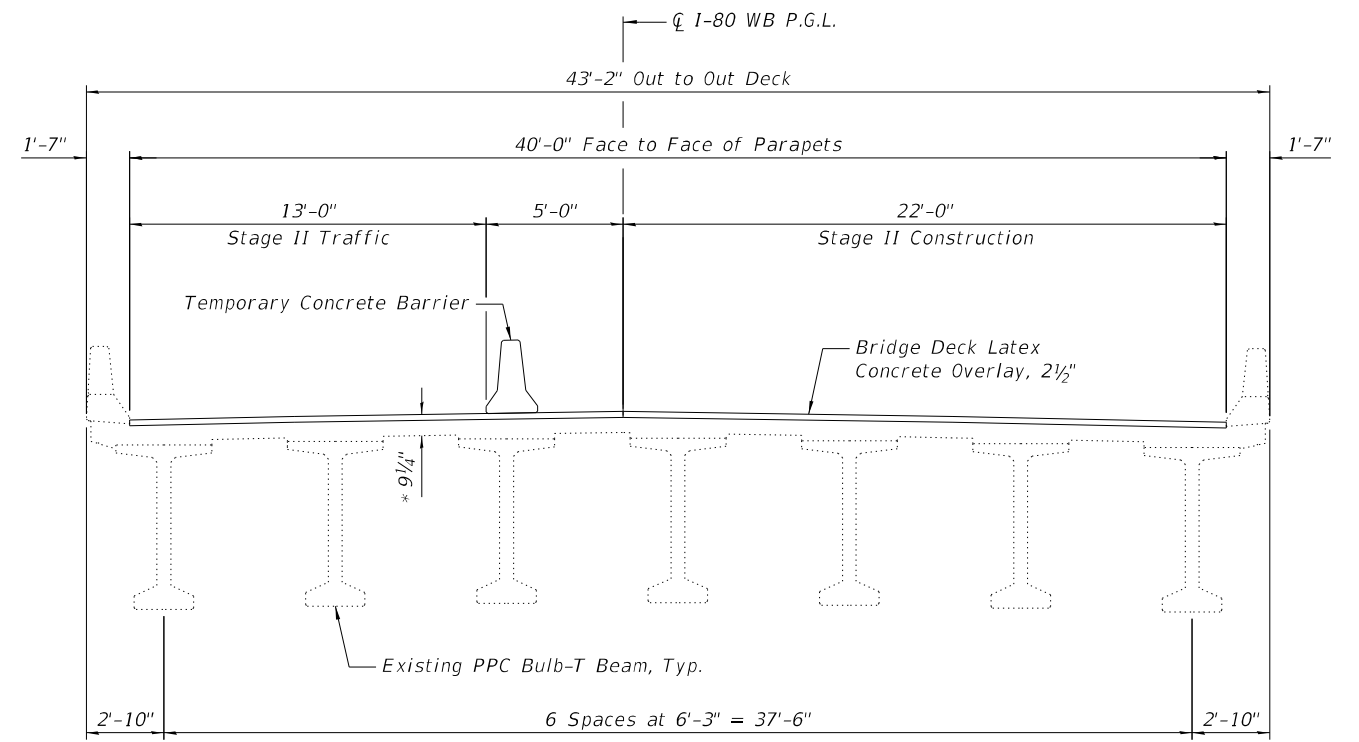
STAGE I CONSTRUCTION
(Looking West)

* Prior to 1/4" Grinding



STAGE II REMOVAL
(Looking West)

* Prior to 1/4" Grinding



STAGE II CONSTRUCTION
(Looking West)

* Prior to 1/4" Grinding



USER NAME = SARICHP	DESIGNED - NWB	REVISED -
PLOT SCALE = 0.1667' / in.	DRAWN - NWB	REVISED -
PLOT DATE = 3/20/2023	CHECKED - KES	REVISED -
	DATE - 11/17/22	REVISED -

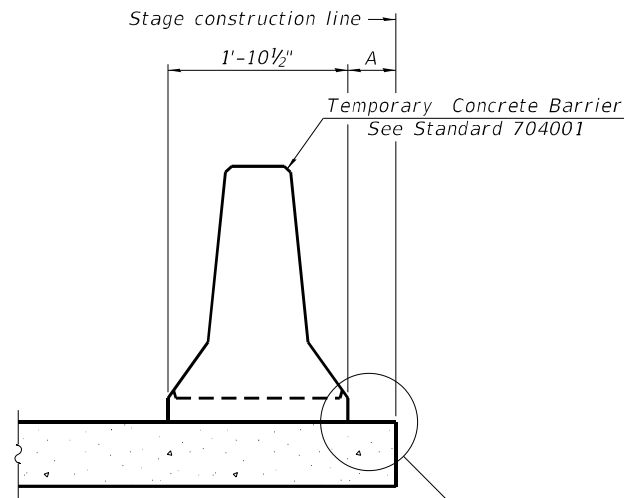
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STAGED CONSTRUCTION DETAILS
STRUCTURE NO. 050-0231 (WB)

SCALE: SHEET 3 OF 26 SHEETS STA. 597+54.00

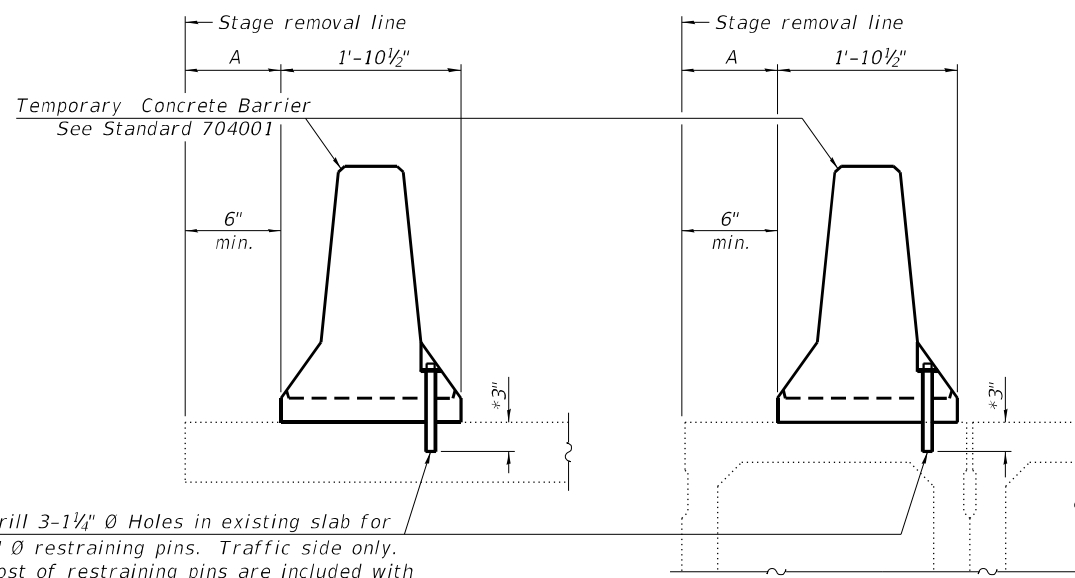
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80	(50-4) BR	LA SALLE	45	15
CONTRACT NO. 66M33			ILLINOIS FED. AID PROJECT	

MODEL: WB Temporary Concrete Barrier for Staged Construction
 FILE NAME: p:\work\66633-00\66633-00.dwg
 DRAWN: NWB
 CHECKED: KES
 DATE: 11/17/22
 PROJECT: 597+54.00
 SHEET: 4 OF 26
 CONTRACT: 66M33



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



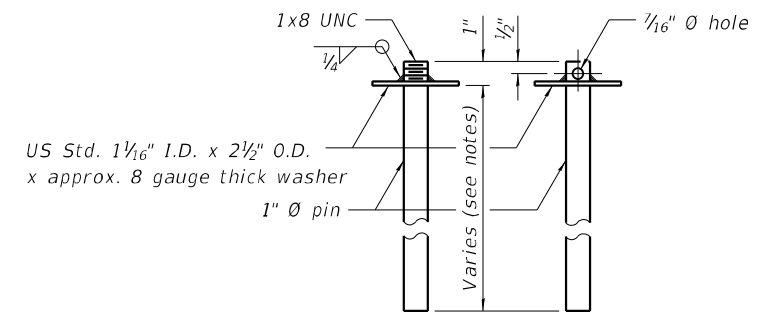
Drill 3-1/4" Ø Holes in existing slab for 1" Ø restraining pins. Traffic side only. Cost of restraining pins are included with Temporary Concrete Barrier. No restraint is required when "A" is greater than 3'-1".

EXISTING SLAB

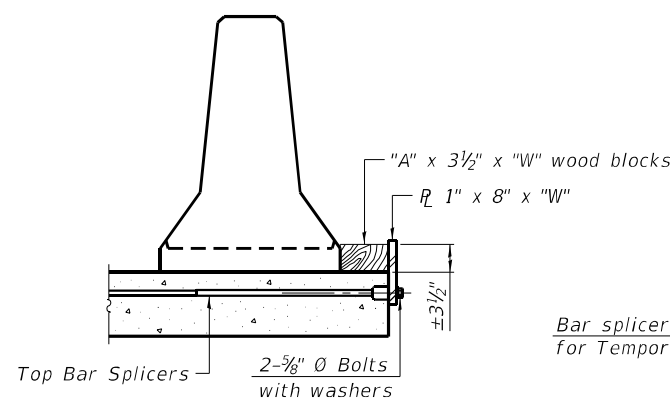
EXISTING DECK BEAM

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

SECTIONS THRU SLAB OR DECK BEAM

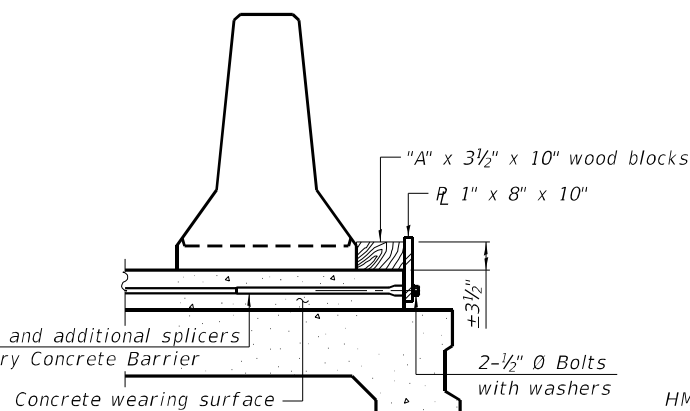


RESTRAINING PIN

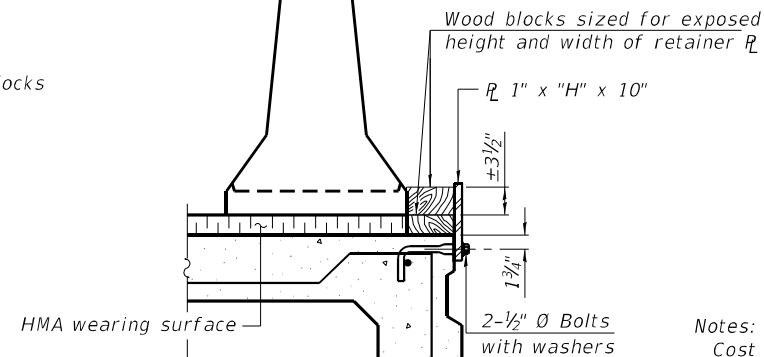


DETAIL I

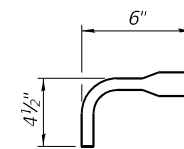
Bar splicers and additional splicers for Temporary Concrete Barrier



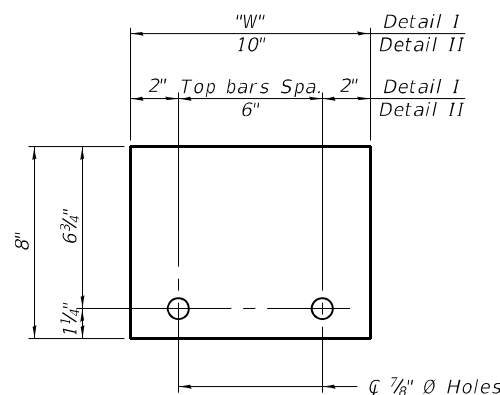
DETAIL II



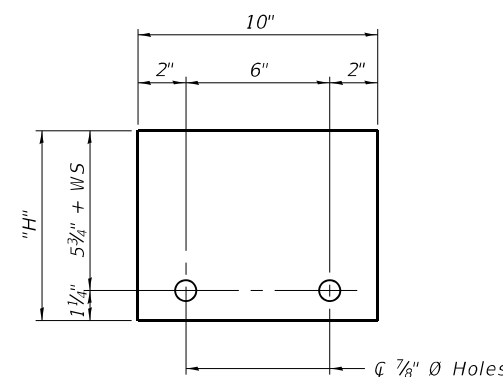
DETAIL III



BAR SPLICER FOR #4 BAR - DETAIL III



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



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

Notes:

- Cost of retainer assembly is included with Temporary Concrete Barrier.
- A retainer assembly shall be located at the approximate \bar{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.

R-27 2-17-2017



USER NAME = SARICHP	DESIGNED - NWB	REVISED -
PLOT SCALE = 0.1667' / in.	DRAWN - NWB	REVISED -
PLOT DATE = 3/20/2023	CHECKED - KES	REVISED -
	DATE - 11/17/22	REVISED -

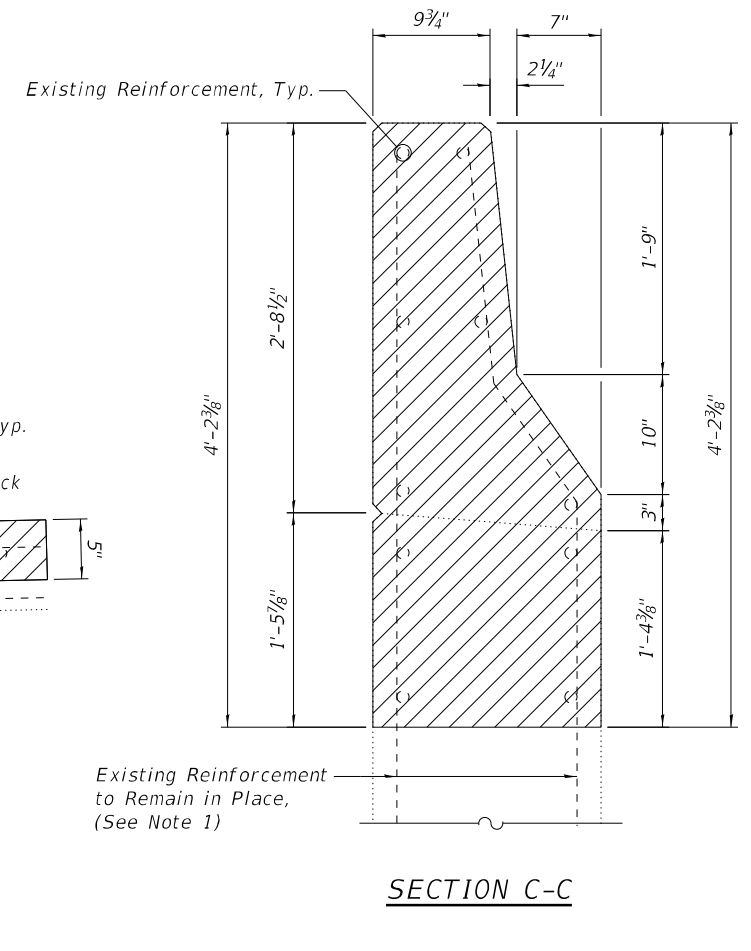
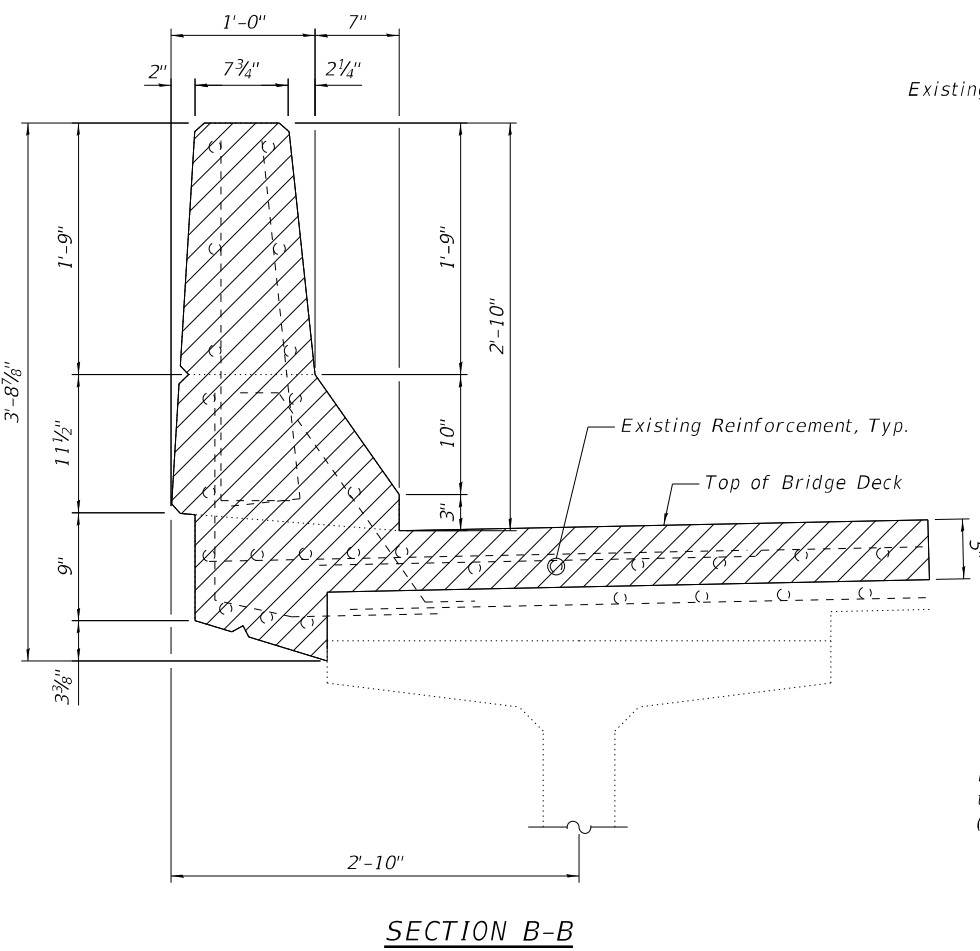
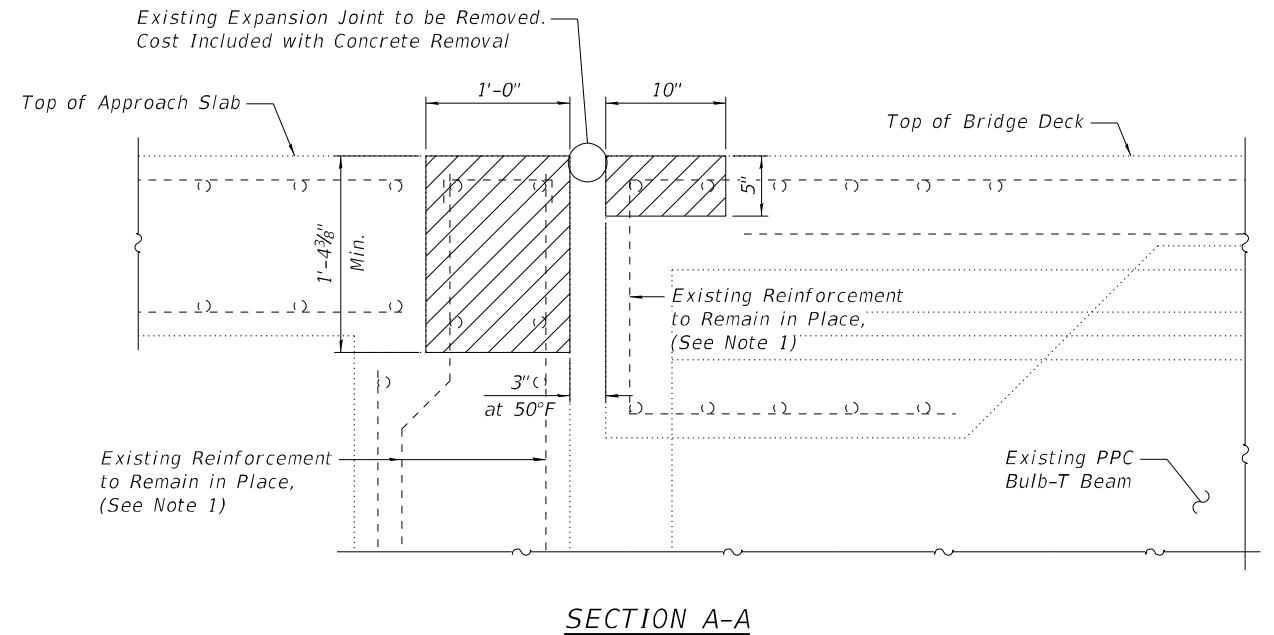
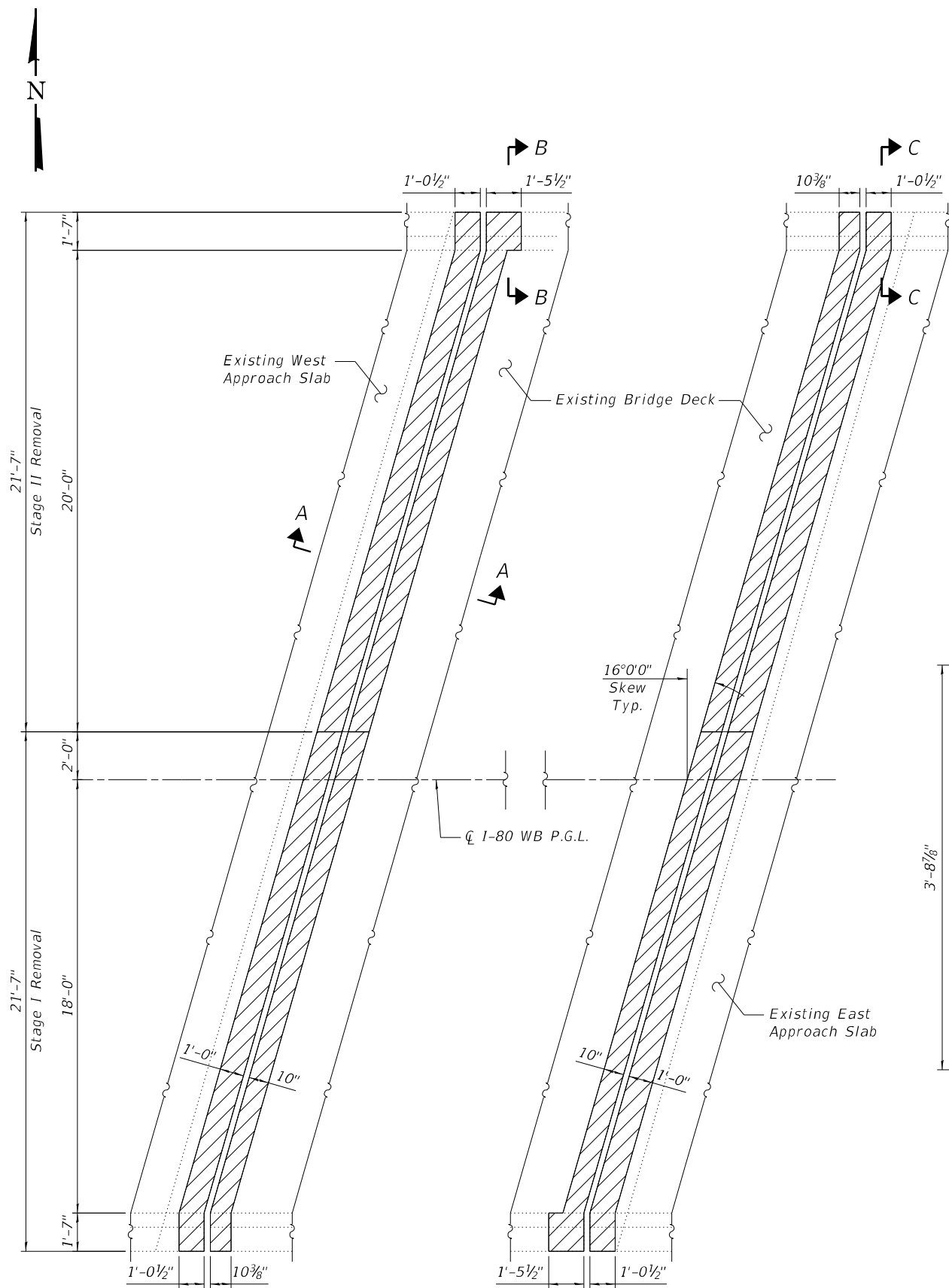
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY CONCRETE BARRIER FOR STAGED CONSTRUCTION
STRUCTURE NO. 050-0231 (WB)**

SCALE: SHEET 4 OF 26 SHEETS STA. 597+54.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(50-4) BR	LA SALLE	45	16
ILLINOIS FED. AID PROJECT			CONTRACT NO. 66M33	

MODEL: WB Deck Removal
 FILE NAME: p:\cadd\mmt\p02-pp-bentley.com\proj\10-Transportation\02-Engineering_Services\10-Structures\10-BIM_CADD\01-Working\10-3-180668433-WB-3-WB-Deck-Removal



LEGEND
 Limits of Removal

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

BILL OF MATERIAL

Item	Unit	Total
Concrete Removal	Cu. Yd.	8.0

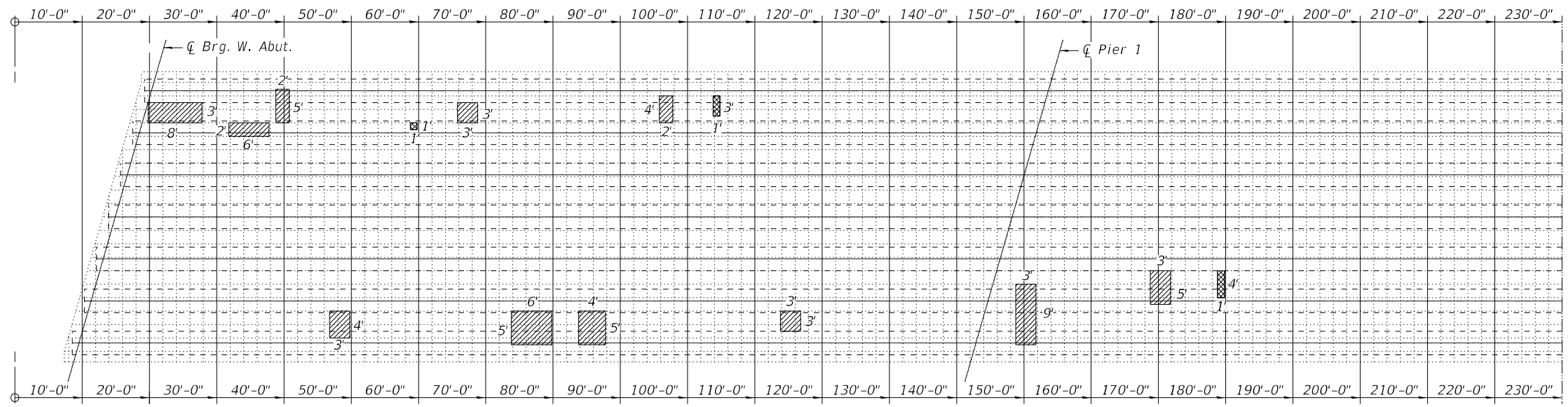
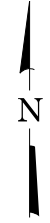


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PLOT SCALE = 0.1667' / in.	DRAWN - NWB	REVISED -
PLOT DATE = 3/20/2023	CHECKED - KES	REVISED -
	DATE - 11/17/22	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DECK REMOVAL
 STRUCTURE NO. 050-0231 (WB)
 SCALE: SHEET 5 OF 26 SHEETS STA. 597+54.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(50-4) BR	LA SALLE	45	17
CONTRACT NO. 66M33				
ILLINOIS FED. AID PROJECT				

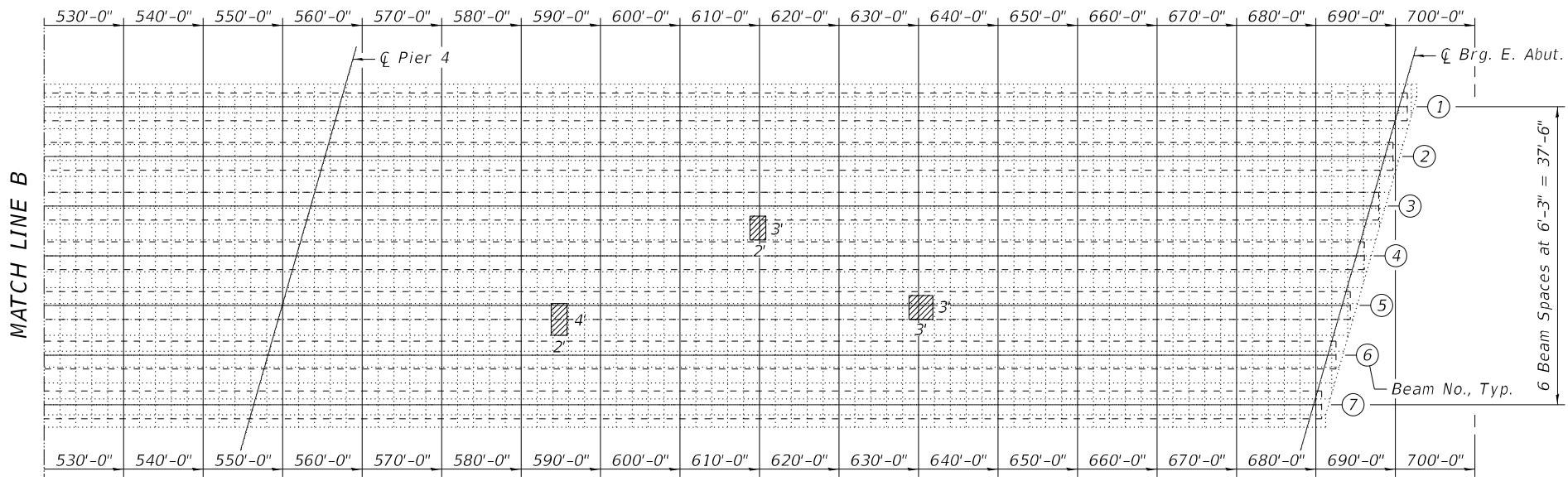
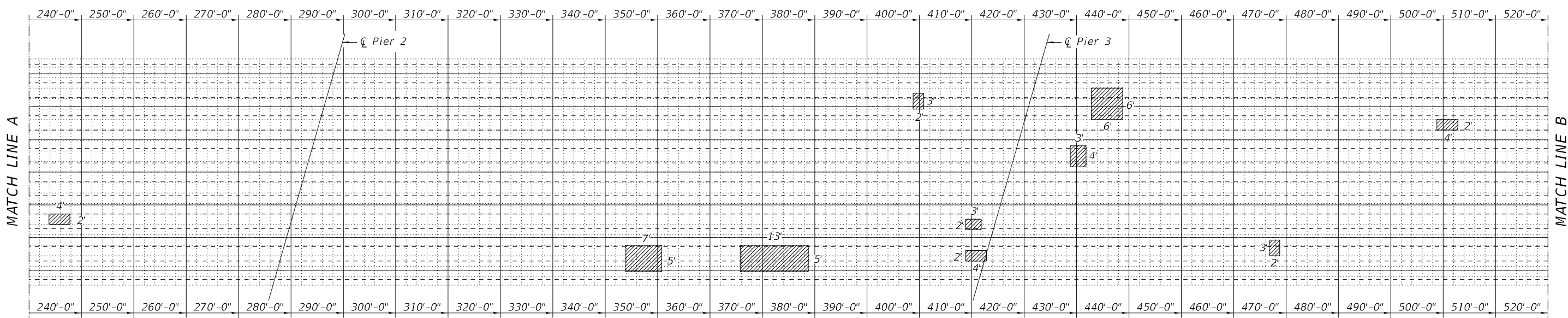


BILL OF MATERIAL

Item	Unit	Quantity
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	1
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	44

LEGEND

- Deck Slab Repair (Full Depth, Type I)
- Deck Slab Repair (Full Depth, Type II)
- 2'x2' Gridlines



PLAN

NOTES:

- Deck repair areas are estimated based on a field inspection conducted in October 2022 and will be paid for as specified in the Special Provisions. The inspection did not include an underside of deck condition survey and repair areas shown on plans are based on the top of deck condition only. The engineer shall sound the entire deck after scarification operations to determine exact locations and areas of repairs needed. Actual repair areas shall be recorded on the As-built plans.

MODEL: WB Deck Repairs
 FILE NAME: p:\c\m\m\m\302-ep\band\compaw.d\Documents\20281273978\10_Transportation\02_Engineering_Services\IM_Spect02_Structures\10_BIM_CADD\01_Working\WO_3_18066833_WG_3-WB_Deck_Repairs



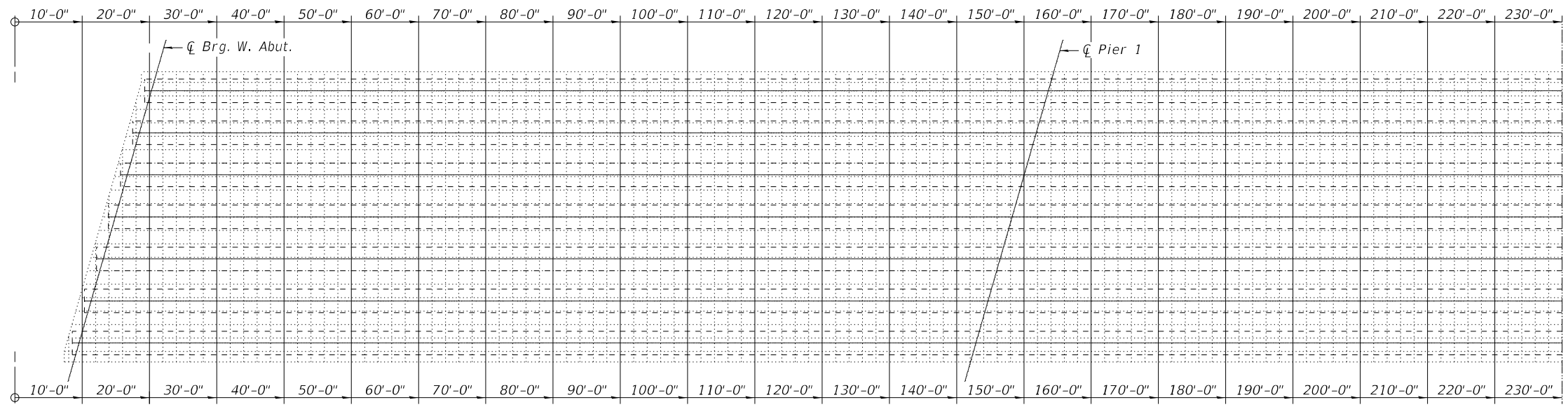
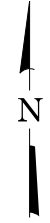
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	DATE - 11/17/22	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DECK REPAIRS
STRUCTURE NO. 050-0231 (WB)**

SCALE: SHEET 6 OF 26 SHEETS STA. 597+54.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(50-4) BR	LA SALLE	45	18
ILLINOIS FED. AID PROJECT			CONTRACT NO. 66M33	

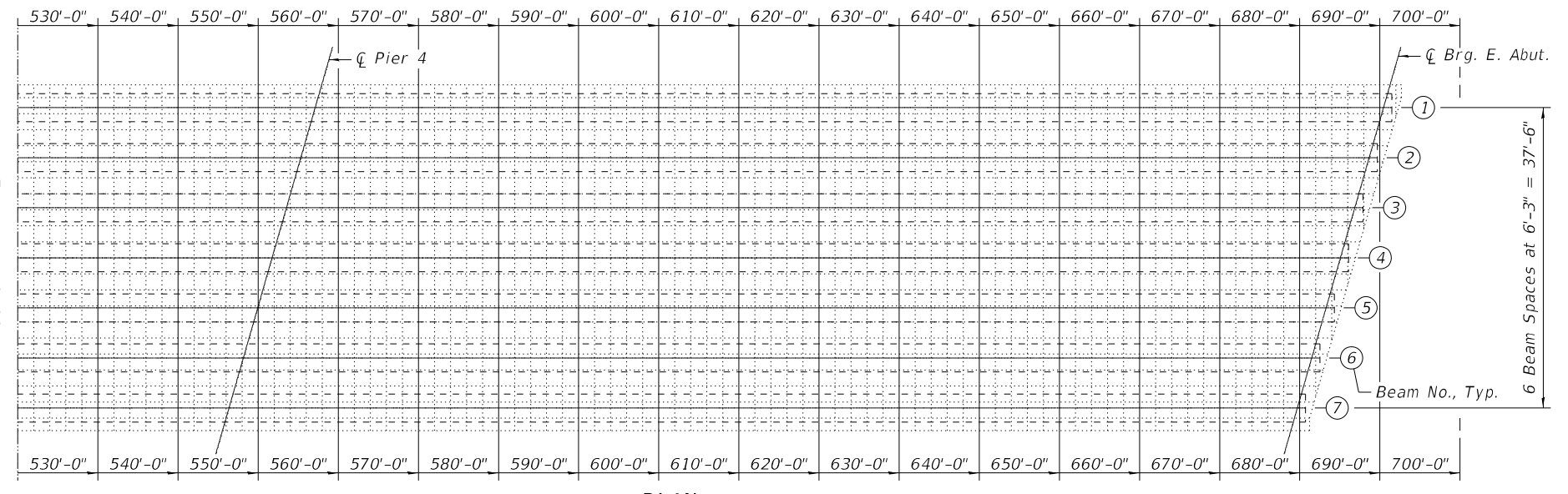
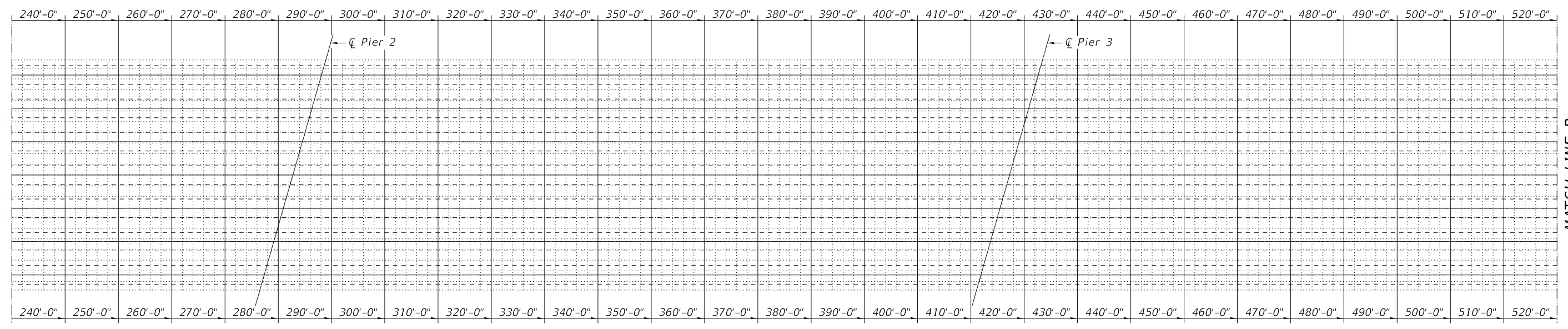


BILL OF MATERIAL

Item	Unit	Quantity
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	

LEGEND

	Deck Slab Repair (Full Depth, Type I)
	Deck Slab Repair (Full Depth, Type II)
	2'x2' Gridlines



PLAN

NOTES:

- The engineer shall mark the actual area and locations of deck slab repair as part of the "As-Built" plans.

MODEL: WB Deck Repairs
 FILE NAME: p:\c\m\m\m\302-ep_bentley.com\paw.d\Documents\20281273978\10_Transportation\02_Engineering_Services\IM_Spect02_Structures\10_BIM_CADD\01_Working\WO_3_180668\33_WO_34WB_Deck_Repairs_As_Built.rvt
 DATE: 3/21/2023



USER NAME = SARICHP	DESIGNED - NWB	REVISED -
PLOT SCALE = 0.1667' / in.	DRAWN - NWB	REVISED -
PLOT DATE = 3/21/2023	CHECKED - KES	REVISED -
	DATE - 11/17/22	REVISED -

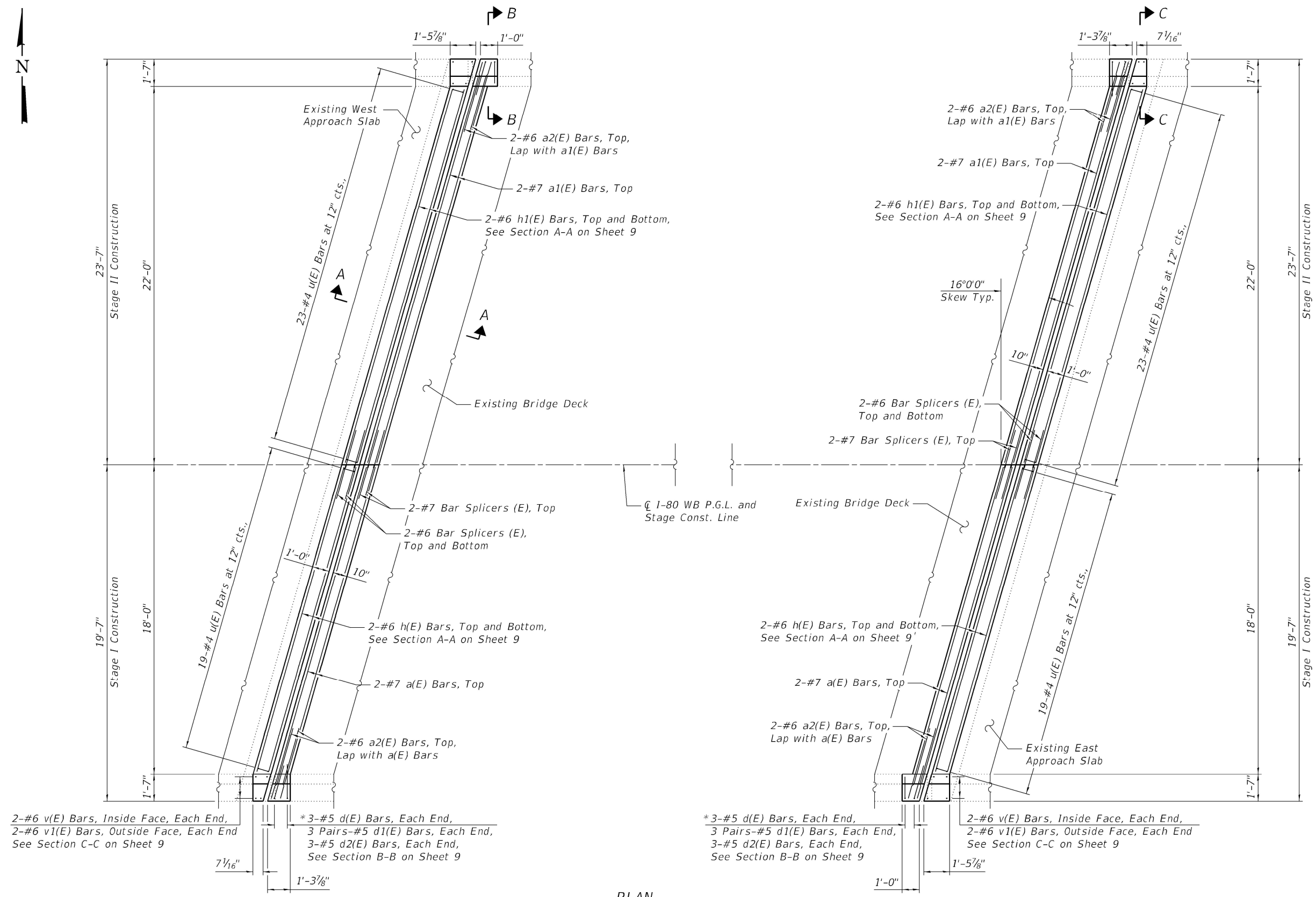
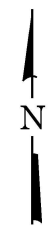
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DECK REPAIRS - AS BUILT
STRUCTURE NO. 050-0231 (WB)

SCALE: SHEET 7 OF 26 SHEETS STA. 597+54.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(50-4) BR	LA SALLE	45	19
ILLINOIS FED. AID PROJECT			CONTRACT NO. 66M33	

MODEL: WB Deck Reconstruction Plan
 FILE: \\nafe-pw\csm\66m33\p00\benby.com\pw.p 1\Documents\20281023\7810 Transportation\02_Engineering_Services\10_Structures\10_BIM_CADD\01_Working\WO_3_180166M33_WO_3-WB_Deck_Reconstruction_Plan



PLAN

*Cut or bend d(E) bars to fit

NOTES

1. For Section A-A, B-B and C-C, See Sheet 9.



USER NAME = SARICHP	DESIGNED - NWB	REVISED -
	DRAWN - NWB	REVISED -
PLOT SCALE = 0.1667' / in.	CHECKED - KES	REVISED -
PLOT DATE = 3/20/2023	DATE - 11/17/22	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

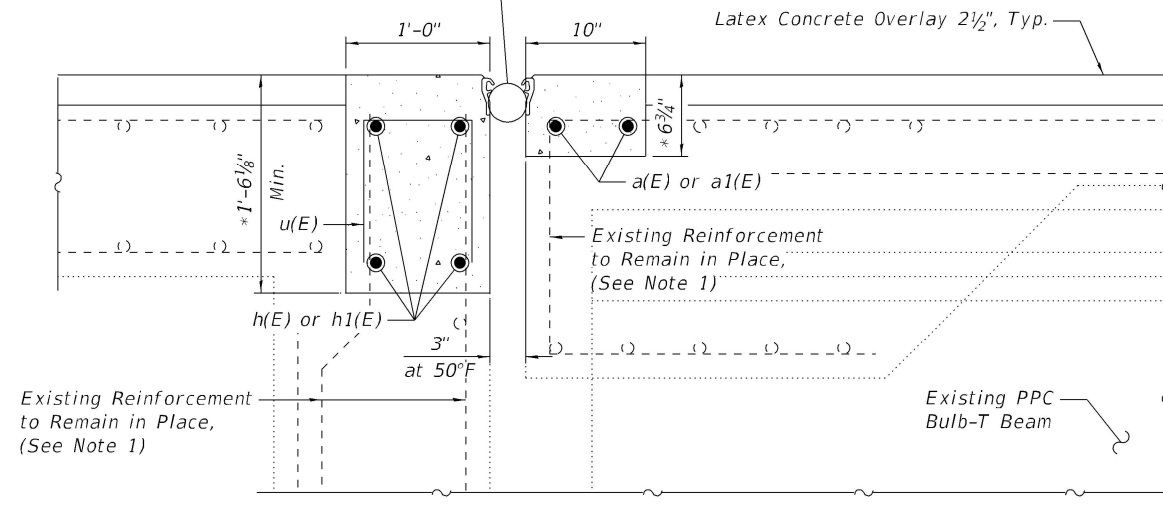
**DECK RECONSTRUCTION PLAN
STRUCTURE NO. 050-0231 (WB)**

SCALE: SHEET 8 OF 26 SHEETS STA. 597+54.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(50-4) BR	LA SALLE	45	20
CONTRACT NO. 66M33				

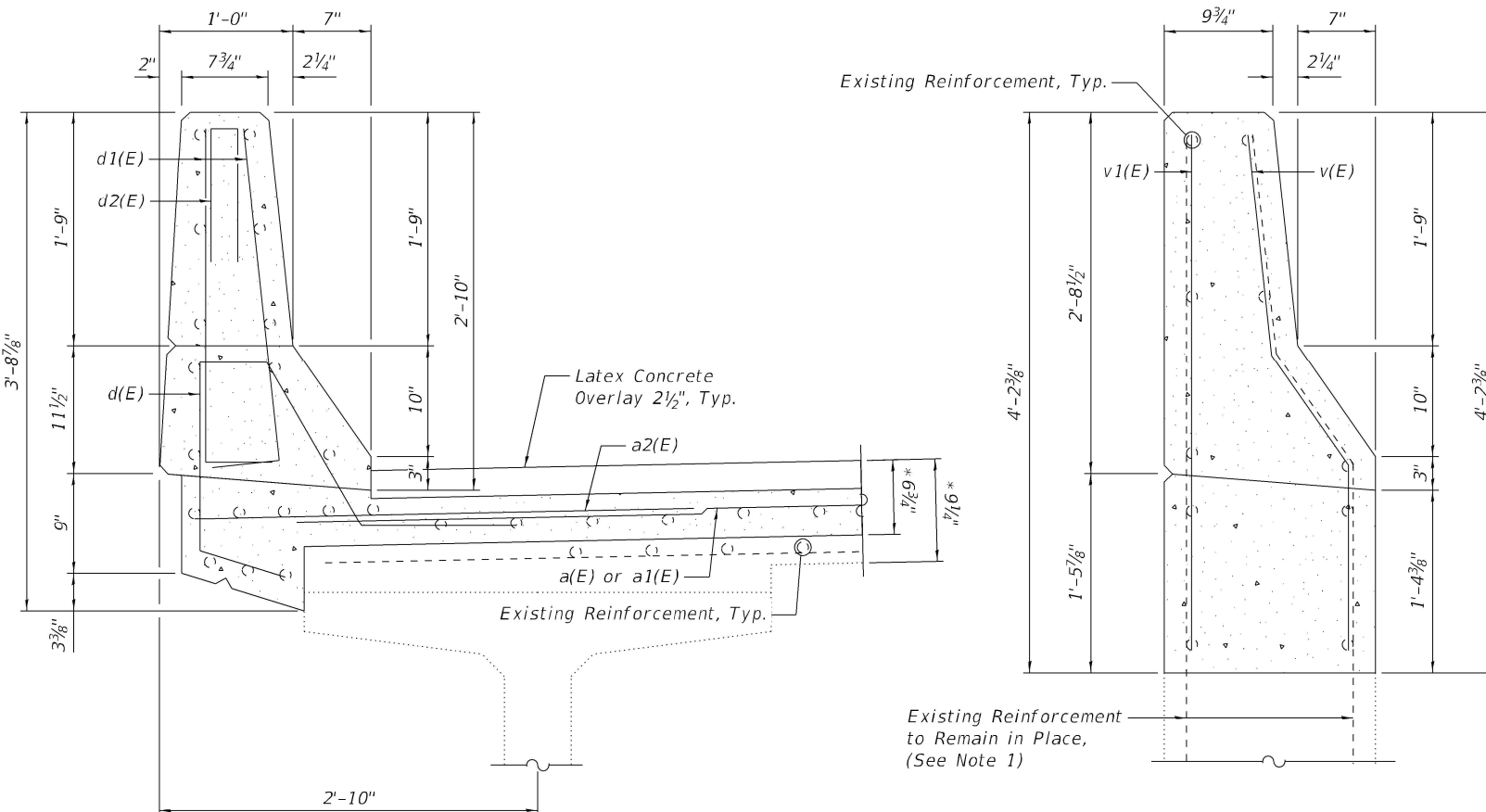
ILLINOIS FED. AID PROJECT

For Expansion Joint Details, See Sheet 11



SECTION A-A

*Prior to Grinding



SECTION B-B

*Prior to Grinding

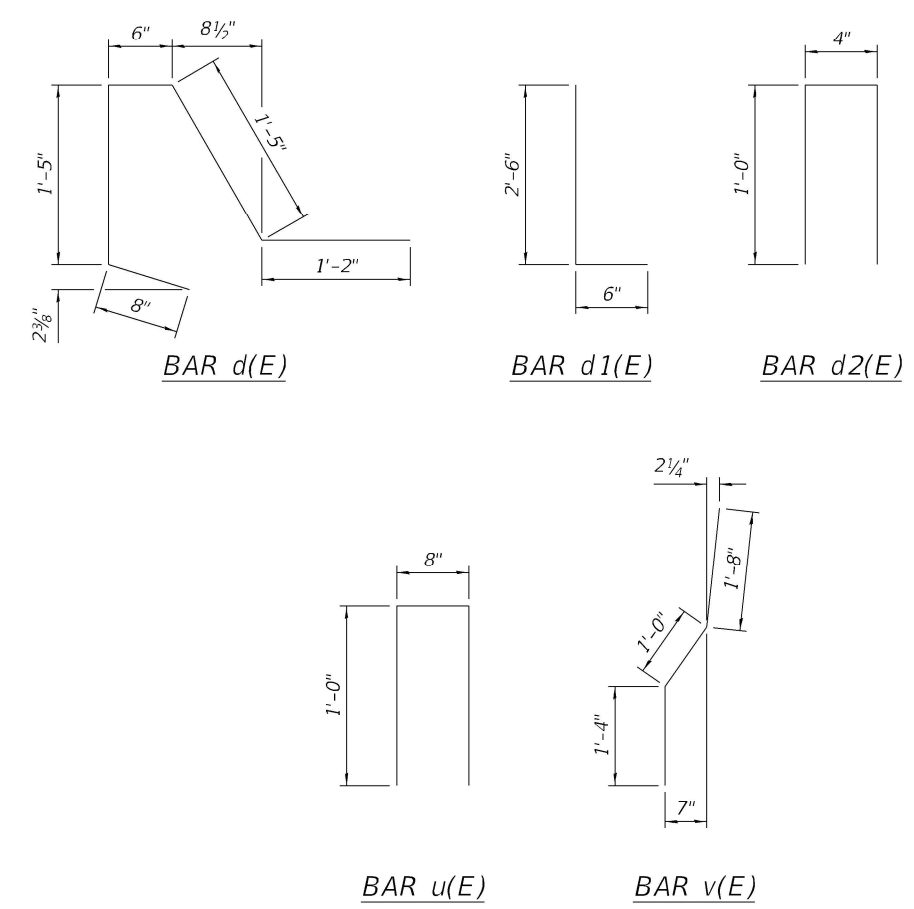
SECTION C-C

NOTES

- Existing longitudinal reinforcement shown are to be cleaned and incorporated into new construction.
- Bar list and bill of material shown on sheet is for both expansion joint replacements.

**SUPERSTRUCTURE
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a(E)	4	#7	19'-3"	—
a1(E)	4	#7	23'-5"	—
a2(E)	8	#6	4'-0"	—
d(E)	12	#5	5'-2"	⌋
d1(E)	24	#5	3'-0"	⌋
d2(E)	12	#4	2'-4"	⌋
h(E)	8	#6	18'-5"	—
h1(E)	8	#6	22'-7"	—
u(E)	84	#4	2'-8"	⌋
v(E)	8	#6	4'-0"	—
v1(E)	8	#6	3'-10"	—
Concrete Superstructure			Cu. Yd.	8.0
Protective Coat			Sq. Yd.	3,327
Reinforcement Bars, Epoxy Coated			Pound	1,300
Bar Splicers			Each	12
Bridge Deck Grooving (Longitudinal)			Sq. Yd.	1,994
Bridge Deck Latex Concrete Overlay, 2 1/2"			Sq. Yd.	3,323
Diamond Grinding (Bridge Section)			Sq. Yd.	2,991



MODEL: WB Deck Reconstruction Details
FILE: \\naufp\proj\666m33\p\jenby\comp\p\1\Documents\2023\1273978\10 Transportation\02_Engineering_Services\NA_Sect02_Structures\10_BIM_CADD\01_Working\WO_3-WB_Deck_Reconstruction_Details



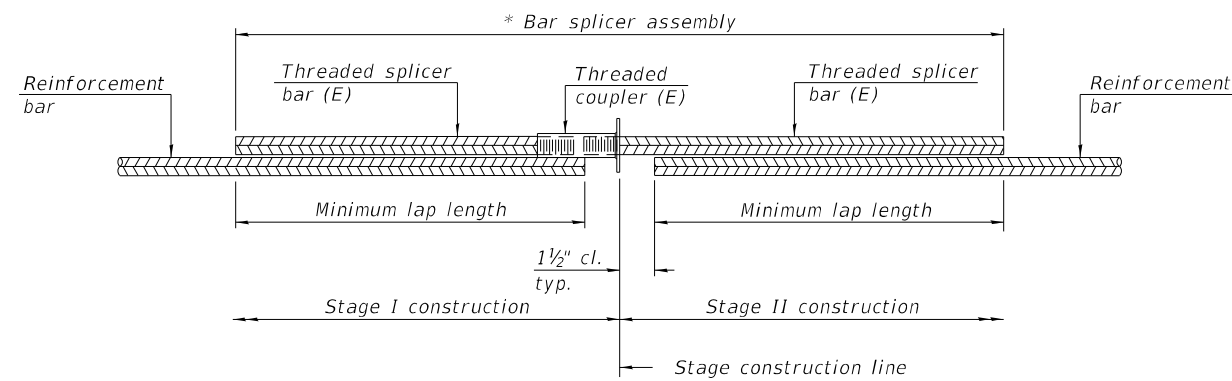
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DRAWN - NWB	CHECKED - KES	REVISED -
PLOT SCALE = 0.1667' / in.	DATE - 11/17/22	REVISED -
PLOT DATE = 3/21/2023		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DECK RECONSTRUCTION DETAILS
STRUCTURE NO. 050-0231 (WB)**

SCALE: SHEET 9 OF 26 SHEETS STA. 597+54.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(50-4) BR	LA SALLE	45	21
CONTRACT NO. 66M33			ILLINOIS FED. AID PROJECT	



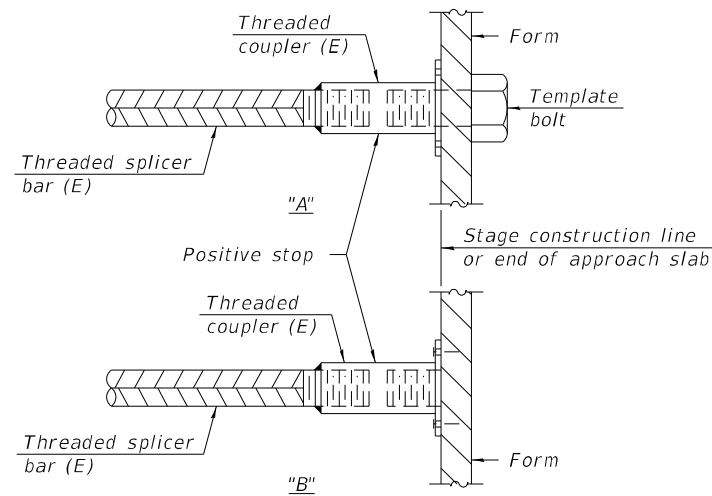
STANDARD BAR SPLICER ASSEMBLY PLAN

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

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

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

Location	Bar size	No. assemblies required	Minimum lap length
West Appr. Slab	#6	4	3'-10"
West Deck	#7	2	4'-5"
East Appr. Slab	#6	4	3'-10"
East Deck	#7	2	4'-5"

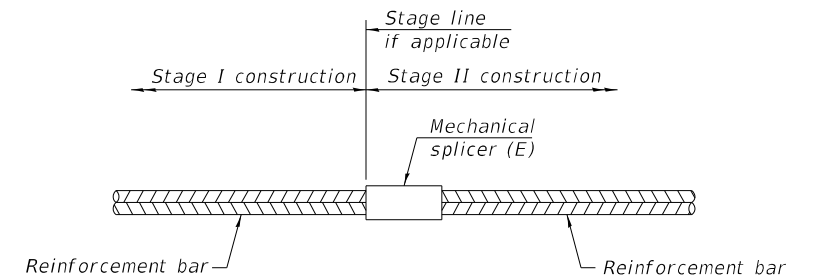


INSTALLATION AND SETTING METHODS

"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

Notes:

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

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

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

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

MODEL: WB Deck Reconstruction Details; FILE NAME: p:\work\66633-40-00\cm\cm\p\p\assembly\assembly\wo_3_180666#33_WO_3-4WB_Bar_Splicer_Assembly

BSD-1

2-1-2023



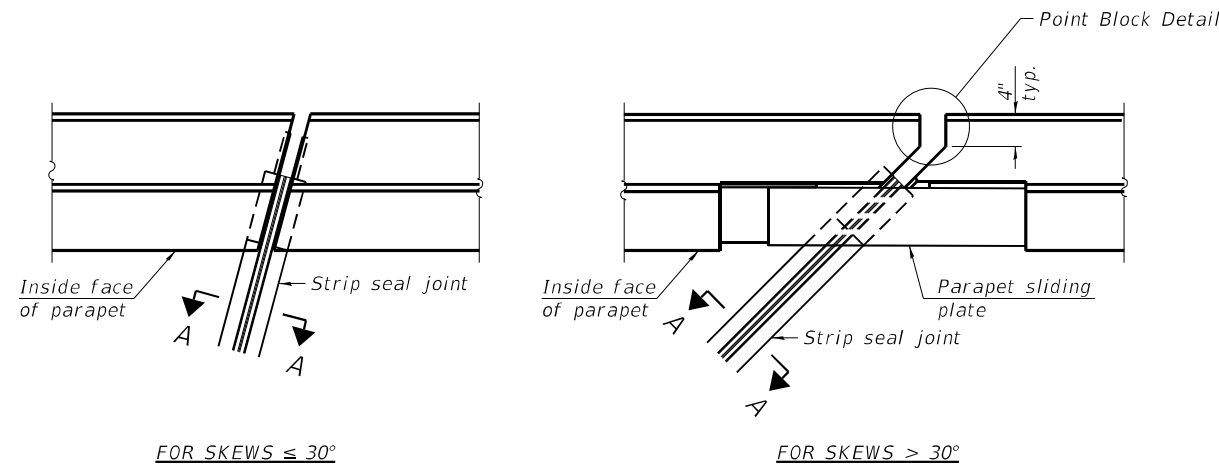
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	DRAWN - NWB	REVISED -
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PLOT DATE = 3/20/2023	DATE - 11/17/22	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

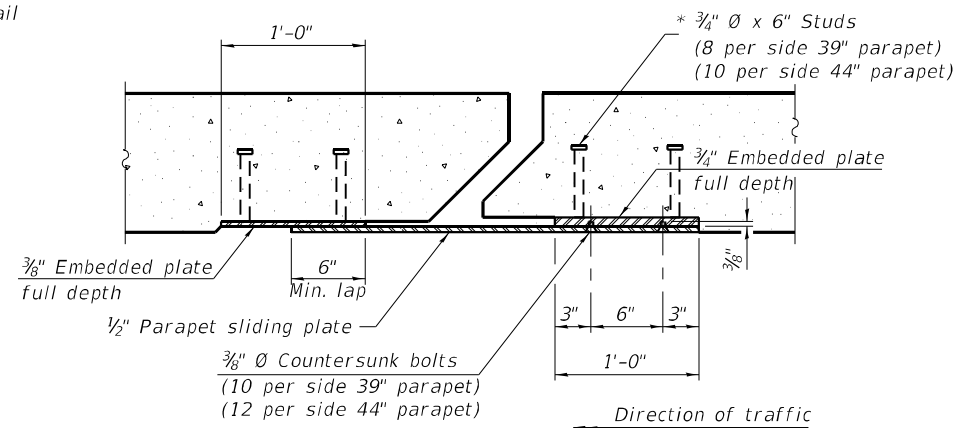
**BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
STRUCTURE NO. 050-0231 (WB)**

SCALE: SHEET 10 OF 26 SHEETS STA. 597+54.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(50-4) BR	LA SALLE	45	22
ILLINOIS			CONTRACT NO. 66M33	
FED. AID PROJECT				

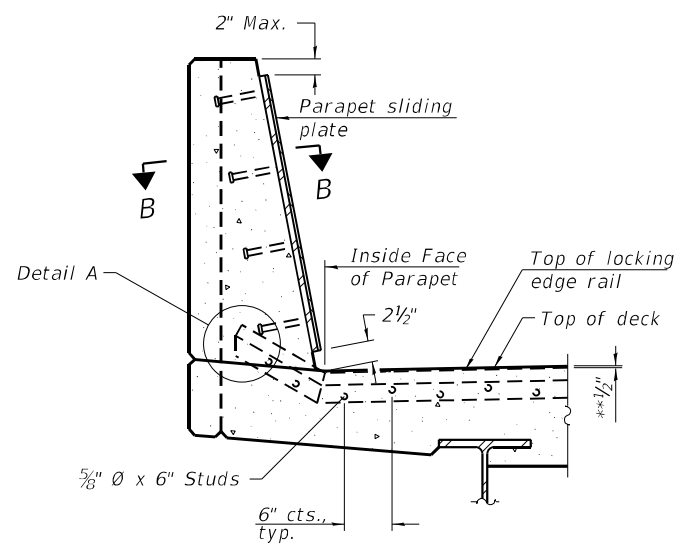


PLAN AT PARAPET



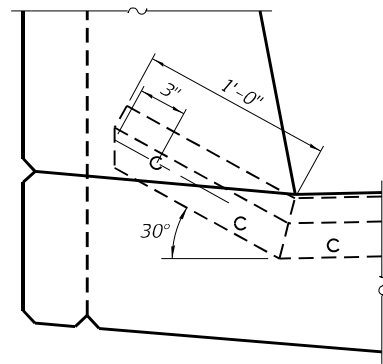
SECTION B-B

Notes:
 The strip seal shall be made continuous and shall have a minimum thickness of $\frac{1}{4}$ ". 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 $4\frac{1}{2}$ " maximum depth provided the anchorage system is revised according to the manufacturer's recommendation.
 The manufacturer's recommended installation methods shall be followed.

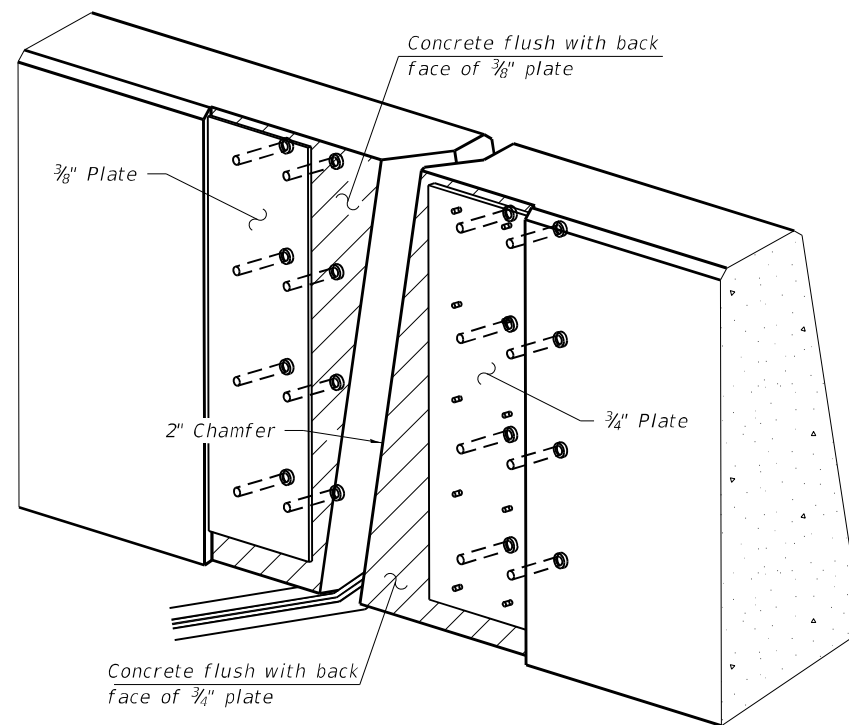


SECTION AT PARAPET

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



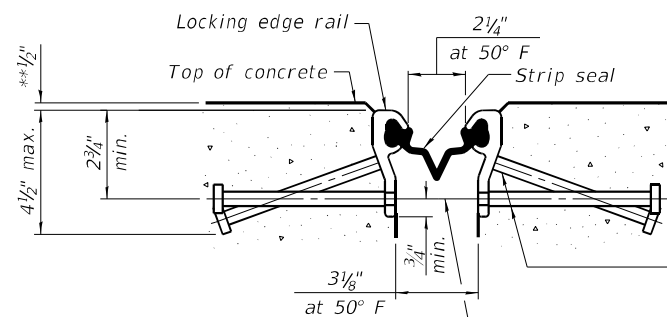
DETAIL A



TRIMETRIC VIEW

(Showing embedded plates only)

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 $\frac{3}{16}$ " 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.
 Cost of parapet sliding plates, embedded plates, and anchorage studs included with Preformed Joint Strip Seal.
 39" constant slope barrier shown, 44" constant slope barrier similar as noted.
 The concrete opening below the strip seal will vary based on the locking edge rail chosen by the Contractor. Deck and parapet lengths shown elsewhere in the plans are dimensioned to the concrete opening, not the joint opening, and are based on the rolled locking edge rail. If the Contractor elects to use a different locking edge rail, dimensional adjustments may be required. One exception to this would be the strip seal joint at the end of the precast bridge approach slab. For these cases the pavement connector length shall be adjusted, not the length of the bridge approach slab.



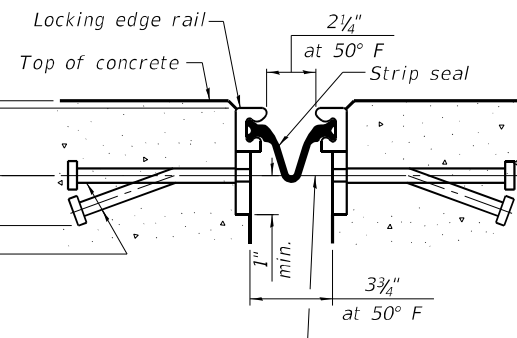
SHOWING ROLLED RAIL JOINT

* $\frac{5}{8}$ " \emptyset x 6" studs @ 6" cts. (alternate angled/bent studs with horizontal studs)

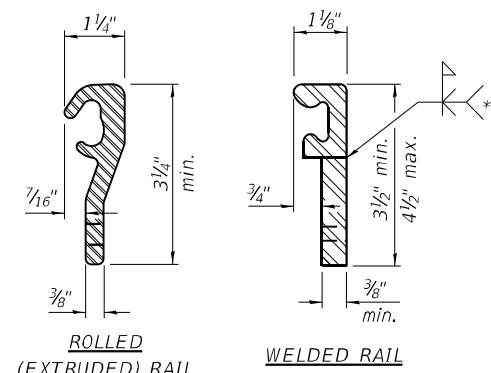
$\frac{3}{8}$ " \emptyset threaded rods in $\frac{1}{16}$ " \emptyset holes at ± 4 "-0" cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.

SECTION A-A

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

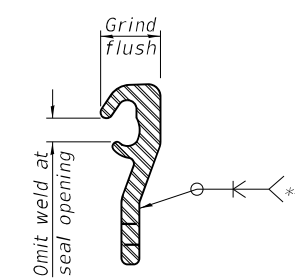


SHOWING WELDED RAIL JOINT



LOCKING EDGE RAILS

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



LOCKING EDGE RAIL SPLICE

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

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	90

MODEL: NB Preformed Joint Strip Seal Details
 FILE NAME: p:\cadd\m13050401\10-Transportation\10-Engineering Services\10-Structures\10-BIM_CADD\01_Working\10-3-180568433_WB_3-180568433_WB_Preformed Joint Strip Seal Details

EJ-SS

1-1-2020



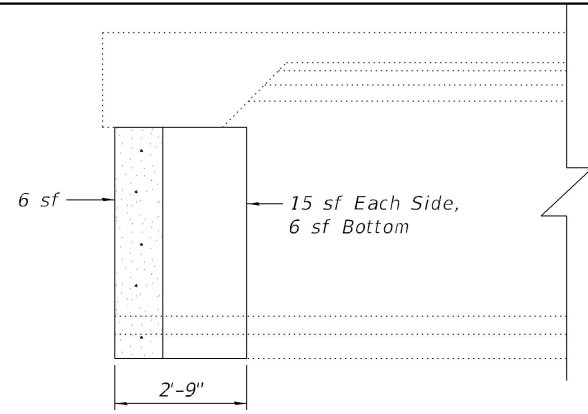
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PLOT SCALE = 0.1667' / in.	DRAWN - NWB	REVISED -
PLOT DATE = 3/20/2023	CHECKED - KES	REVISED -
	DATE - 11/17/22	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

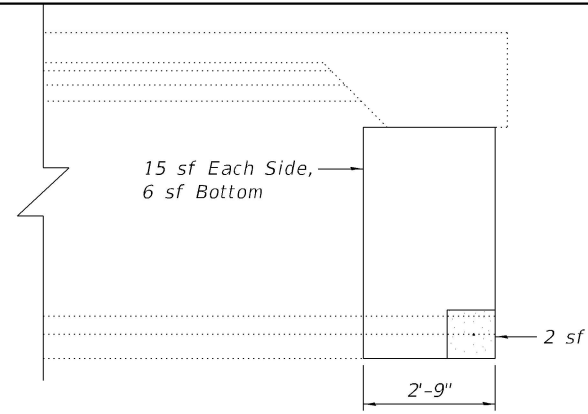
**PREFORMED JOINT STRIP SEAL DETAILS
 STRUCTURE NO. 050-0231 (WB)**

SCALE: SHEET 11 OF 26 SHEETS STA. 597+54.00

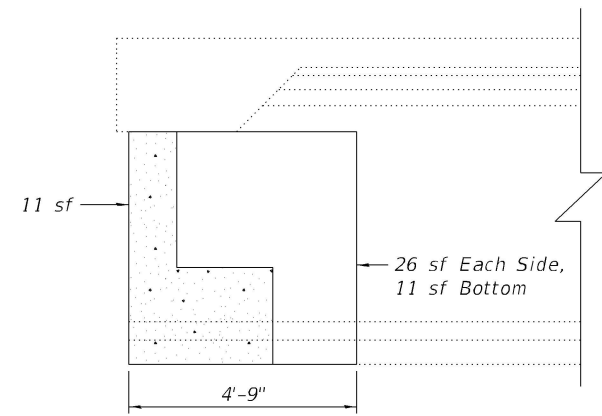
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(50-4) BR	LA SALLE	45	23
			CONTRACT NO. 66M33	
ILLINOIS FED. AID PROJECT				



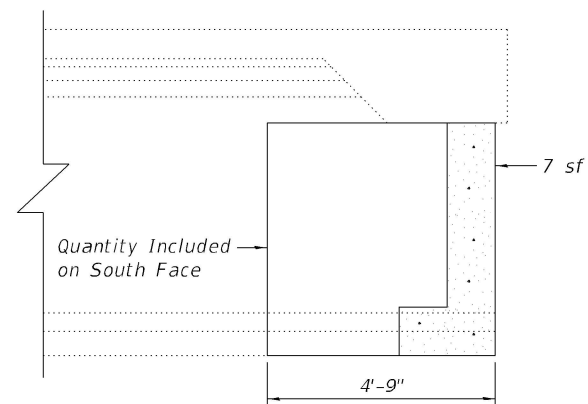
ELEVATION - BEAM 1 NORTH FACE
(Looking South at East Abut.)



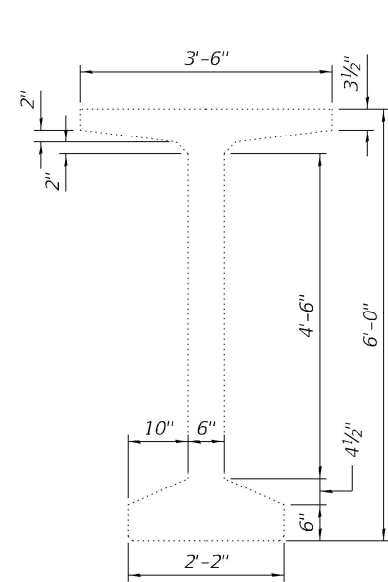
ELEVATION - BEAM 7 SOUTH FACE
(Looking North at East Abut.)



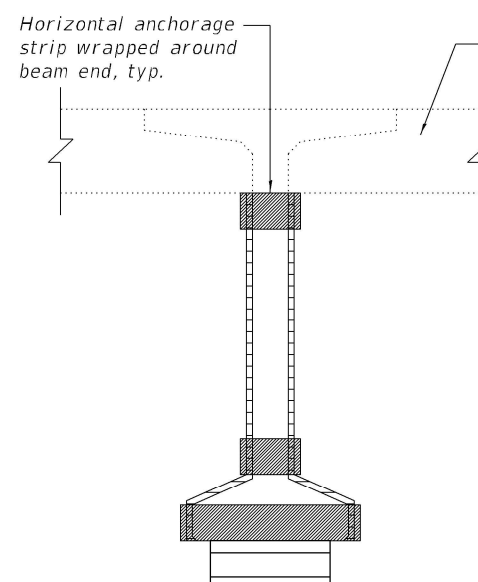
ELEVATION - BEAM 7 SOUTH FACE
(Looking North at West Abut.)



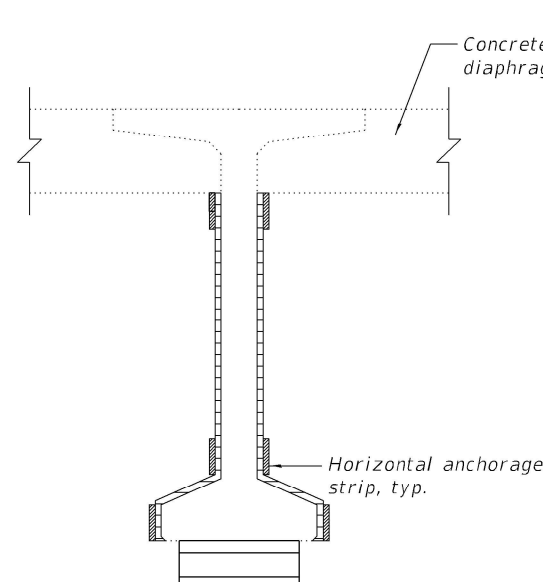
ELEVATION - BEAM 7 NORTH FACE
(Looking South at West Abut.)



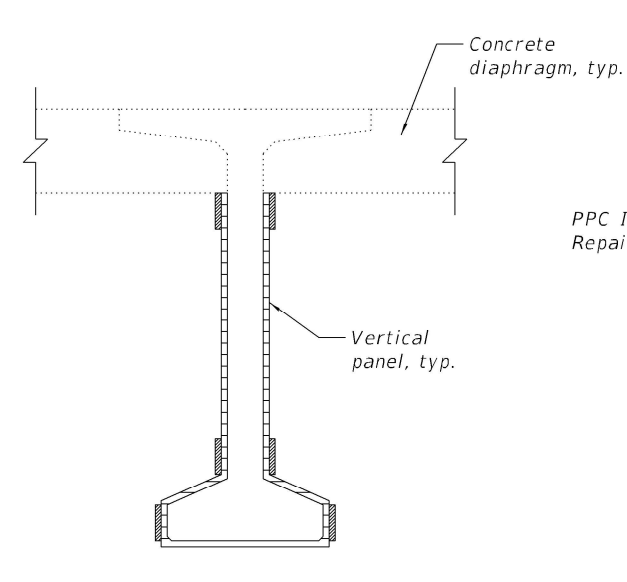
CROSS SECTION
(Showing Dimensions)



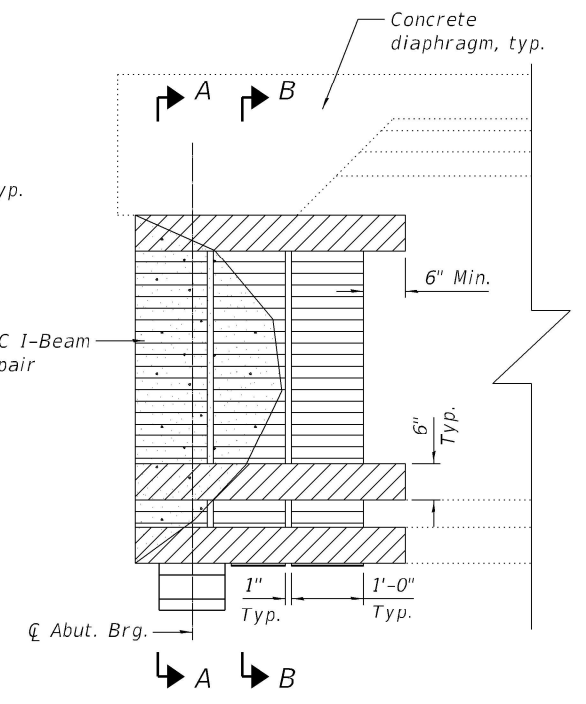
BEAM END VIEW



SECTION A-A



SECTION B-B



TYPICAL BEAM END REPAIR

NOTES:

1. Beam repair areas are estimated based on a field inspection conducted in October 2022 and will be paid for as specified in the Special Provisions. The inspection did not include a complete superstructure beam evaluation and only consisted of inspecting beam ends under the expansion joints at abutments. The engineer shall confirm repair limits shown in plans are still accurate at time of construction and shall inspect existing beams along the full length of bridge for consideration of any additional areas in need of repair.
2. Spacing between each vertical panel shall be 1" and shall extend a minimum of 12" beyond the beam repair zone. Vertical panels located above the bearing location shall be placed in two pieces as shown in Section A-A. At locations in front of the bearing, the vertical panels shall be one continuous strip wrapping beneath of the bottom flanges as shown in Section B-B.
3. Horizontal anchorage strips shall be 6" wide and extend a minimum of 6" beyond the vertical panels. The horizontal anchorage strips shall be placed as shown on plans or as recommended by the manufacturer.
4. Spalled concrete and/or exposed reinforcement shall be repaired according to the Special Provision Precast Prestressed Concrete I-Beam Repair.
5. All cracks greater than 0.007 in. shall be injected with epoxy according to Section 590 of the Standard Specifications for Road and Bridge Construction.
6. Acrylic coating shall be placed over fiber wrap repairs. Two coats shall be applied. See Special Provisions.
7. See Special Provision for FRP Strengthening For PPC I-Beam Repairs.

BILL OF MATERIAL

Item	Unit	Quantity
Acrylic Coating	Sq. Yd.	15
Fiber Wrap	Sq. Ft.	135
Precast Prestressed Concrete I-Beam Repair	Sq. Ft.	26

LEGEND

- Fiber Wrap Repair and Acrylic Coating Limits
- Precast Prestressed Concrete I-Beam Repair
- Vertical Panel Strip
- Horizontal Anchor Strip

MODEL: WB Precast Beam Repair Details 1
FILE: \\nautilus.pva.com\nautilus\pva\jensley\comp\pva\1\Documents\2023\1273978\10_Transportation\02_Engineering_Services\111_Structures\10_BIM_CADD\01_Working\WO_3_1301668433_WO_3-WB_PPC_Beam_Repair_1

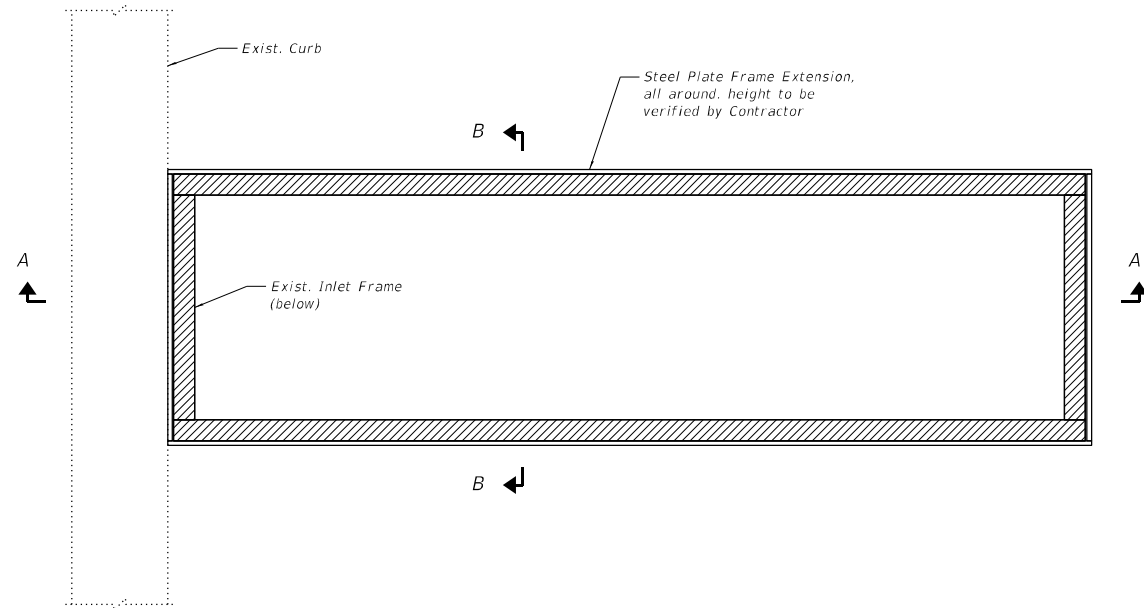


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DRAWN - NWB	CHECKED - KES	REVISED -
PLOT SCALE = 0.1667' / in.	DATE - 11/17/22	REVISED -
PLOT DATE = 3/21/2023		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

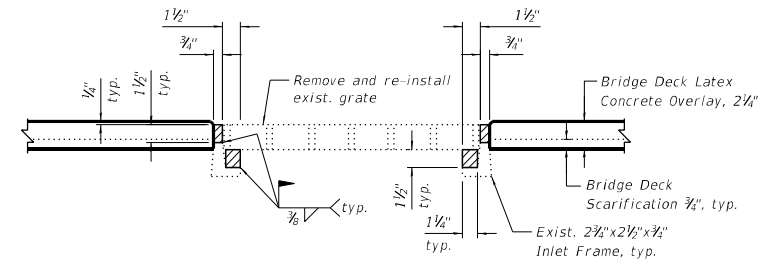
PPC BEAM REPAIR DETAILS STRUCTURE NO. 050-0231 (WB)		
SCALE:	SHEET 12 OF 26 SHEETS	STA. 597+54.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(50-4) BR	LA SALLE	45	24
			CONTRACT NO. 66M33	
			ILLINOIS FED. AID PROJECT	

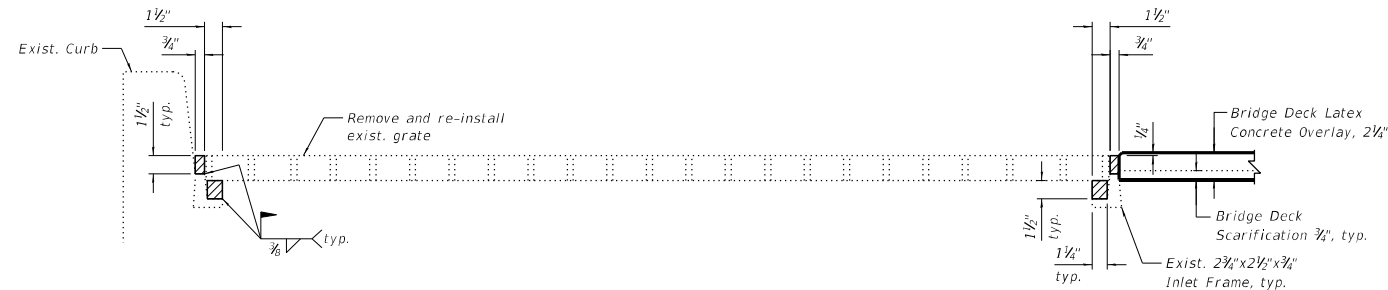


SHOULDER INLET PLAN

(Exist. grate not shown for clarity)



SECTION B-B



SECTION A-A

LEGEND

Steel Plate Frame Extension

BILL OF MATERIAL

Item	Unit	Quantity
Frames and Grates to be Adjusted	Each	3

NOTES:

- All structural steel shall be AASHTO M270 Grade 36.
- Shop drawings for proposed Steel plate Frame Extension shall be submitted for approval prior to fabrication. Cost included with Frames and Grates to be Adjusted.
- Contractor shall ensure that no damage is done to existing grates to be reused.
- Cost of all labor and materials necessary to remove existing grates, clean existing inlets, install Steel plate Frame Extensions, and reinstall grates is included in the cost per unit each for Frames and Grates to be Adjusted.

MODEL INLET DETAIL
FILE NAME: p:\wcm\smith\302-ep\bandby\comp\p\41\Documents\2023\1273978\10_Transportation\02_Engineering_Services\IM_Spect02_Structures\10_BIM_CADD\01_Working\WO 3 150166M33 WO 3-4WB Inlet Detail.dgn



USER NAME = SARICHP	DESIGNED - NWB	REVISED -
PLOT SCALE = 0.1667' / in.	DRAWN - NWB	REVISED -
PLOT DATE = 3/20/2023	CHECKED - KES	REVISED -
	DATE - 11/17/22	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

INLET DETAILS STRUCTURE NO. 050-0231 (WB)			
SCALE:	SHEET 13	OF 26 SHEETS	STA. 597+54.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(50-4) BR	LA SALLE	45	25
ILLINOIS FED. AID PROJECT			CONTRACT NO. 66M33	

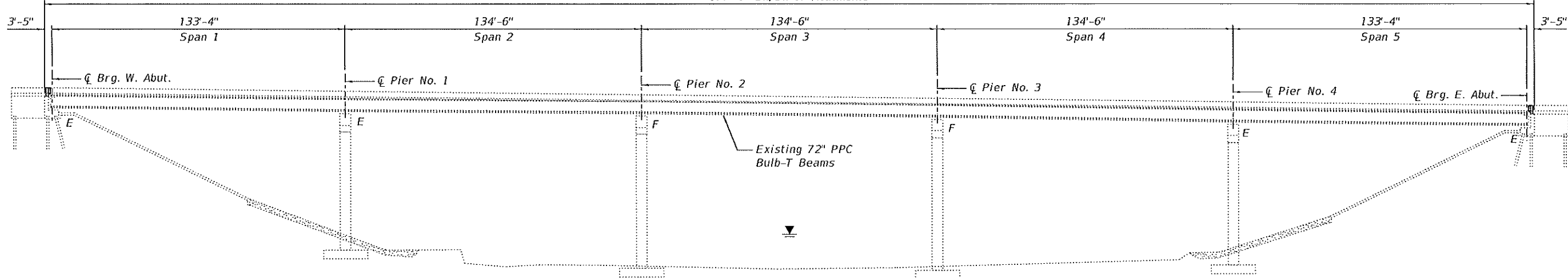
Existing Structure: S.N. 050-0231 (WB) and S.N. 050-0232 (EB), built in 1994 under Section (50-4) BR are five-span skewed dual structures measuring 677'-0" from back to back of abutment and 43'-2" from out to out deck width. The superstructure consists of 72" PC Bulb-T beams supporting a 7 1/2" reinforced concrete deck. The substructure contains stub abutments on concrete piles and hammerhead piers on spread footings. Traffic will be maintained using stage construction.

No Salvage

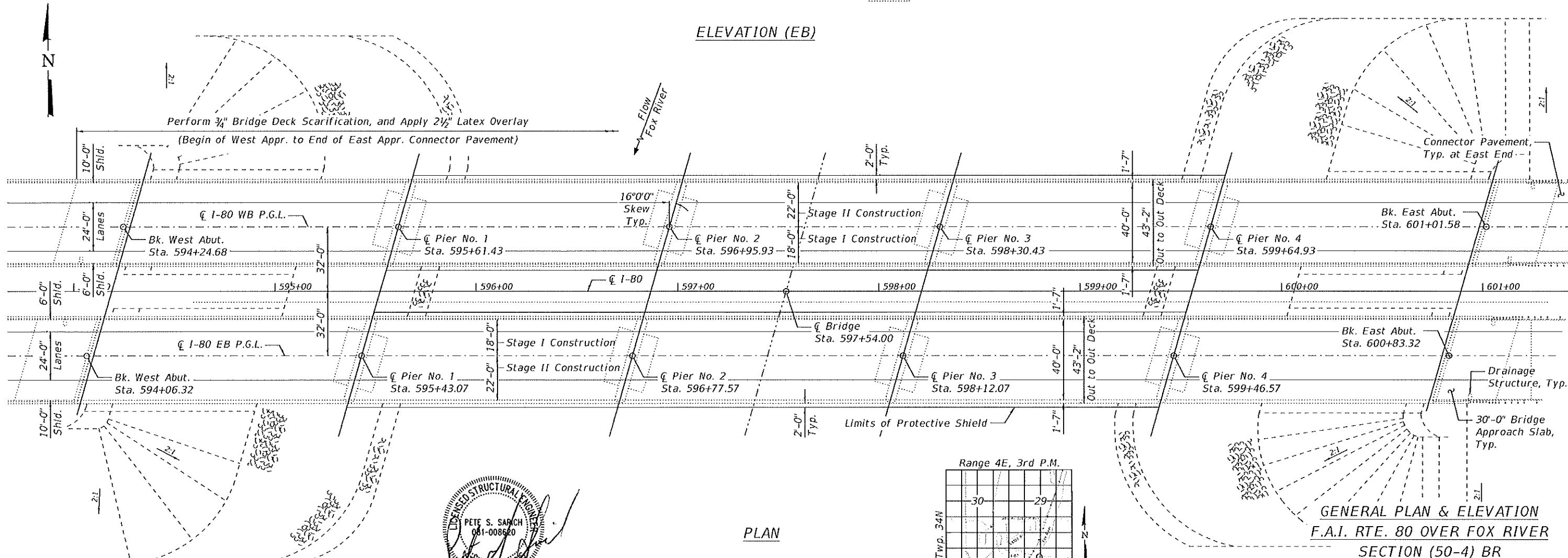
SCOPE OF WORK

1. Scarify existing bridge deck, approach slabs, and pavement connectors.
2. Complete deck patch repairs.
3. Remove and replace expansion joints at abutments.
4. Apply latex concrete overlay on bridge deck, approach slabs, and pavement connectors.
5. Apply protective coat on new concrete areas and overlay limits.
6. Complete beam end repairs with fiber wrap.

677'-0" Bk/Bk of Abutments

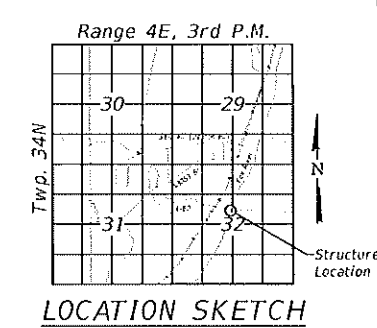


ELEVATION (EB)



PLAN

PETE S. SARCH
 081-008660
 EXPIRATION DATE: 11-30-2024
 DATE: 03-21-2023



GENERAL PLAN & ELEVATION
F.A.I. RTE. 80 OVER FOX RIVER
SECTION (50-4) BR
LASALLE COUNTY
STATION 597+54.00
STR. NO. 050-0232 (EB)

MODEL: E0_Plan_Plot
 FILE NAME: p:\cadd\mbl-ha-202-zw\job\rev.com\dwg_g11\doc\mbl-ha-202-zw\10_Transportation\02_Elevation\EB\Structure\10_DWG_CADD\01_WorkArea\03_H40\66433_V0_2.dwg



USER NAME	■ SARICHP	DESIGNED	■ NWB	REVISED	-
PLOT SCALE	■ 0.1667" = 1'-0"	DRAWN	■ NWB	REVISED	-
PLOT DATE	■ 3/20/2023	CHECKED	■ KES	REVISED	-
		DATE	■ 11/17/22	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION STRUCTURE NO. 050-0232 (EB)			
SCALE:	SHEET 14	OF 26 SHEETS	STA. 597+54.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(50-4) BR	LA SALLE	45	26
				CONTRACT NO. 66M33
ILLINOIS FED. AID PROJECT				

GENERAL NOTES

1. Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
2. 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.
3. Reinforcement bars designated (E) shall be epoxy coated.
4. Protective coat shall be applied to the top and inside faces of new concrete barriers and over limits of latex concrete overlay.
5. Prior to pouring the new concrete deck: all heavy or loose rust, loose mill scale, and other loose potentially detrimental foreign material shall be removed from the surface in contact with concrete. Removal shall be accomplished by methods that will not damage the PPC Beam and the cost will be included with the pay item covering removal of existing concrete.
6. The Contractor shall use extreme care during concrete removal operations so the existing PPC beams are not damaged. If the beams are damaged due to the Contractor's operations, they shall be repaired to the satisfaction of the Engineer at no expense to the Department.
7. Removal of the existing expansion joint steel, anchor studs and expansion material shall not be paid for separately but shall be included in the cost of Concrete Removal.
8. All exposed concrete edges shall have a $\frac{3}{4}$ " chamfer, except where shown otherwise.
9. Expansion joint shall be fabricated to conform to the existing cross slopes of the bridge.
10. Acrylic coating shall be placed over Fiber Wrap repairs. Two coats shall be applied.

INDEX OF SHEETS

1. General Plan and Elevation
2. General Notes, Total Bill of Material and Index of Sheets
3. Staged Construction Details
4. Temporary Concrete Barrier for Staged Construction
5. Deck Removal
6. Deck Repairs
7. Deck Repairs - As Built
8. Deck Reconstruction Plan
9. Deck Reconstruction Details
10. Bar Splice Assembly and Mechanical Splicer Details
11. Preformed Joint Strip Seal Details
12. PPC Beam Repair Details
13. Approach Shoulder Inlet Details

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Concrete Removal	Cu. Yd.	8.0	-	8.0
Protective Shield	Sq. Yd.	2,115	-	2,115
Concrete Superstructure	Cu. Yd.	8.0	-	8.0
Protective Coat	Sq. Yd.	3,327	-	3,327
Reinforcement Bars, Epoxy Coated	Pound	1,300	-	1,300
Bar Splicers	Each	12	-	12
Preformed Joint Strip Seal	Foot	90	-	90
Frames And Grates To Be Adjusted	Each	3	-	3
Acrylic Coating	Sq. Yd.	4	-	4
Fiber Wrap	Sq. Ft.	36	-	36
Bridge Deck Grooving (Longitudinal)	Sq. Yd.	1,994	-	1,994
Bridge Deck Latex Concrete Overlay, 2 1/2"	Sq. Yd.	3,323	-	3,323
Bridge Deck Scarification 3/4"	Sq. Yd.	3,323	-	3,323
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	1	-	1
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	13	-	13
Diamond Grinding (Bridge Section)	Sq. Yd.	2,991	-	2,991
Precast Prestressed Concrete I-Beam Repair	Sq. Ft.	12	-	12

MODEL: EB - General Notes
 FILE NAME: p:\work\66m33-2023\66m33-2023\02-Transportation\02-Engineering_Services\10-BIM_CADD\01-Working\WO_3-180666M33_WO_3-4-EB-General_Notes



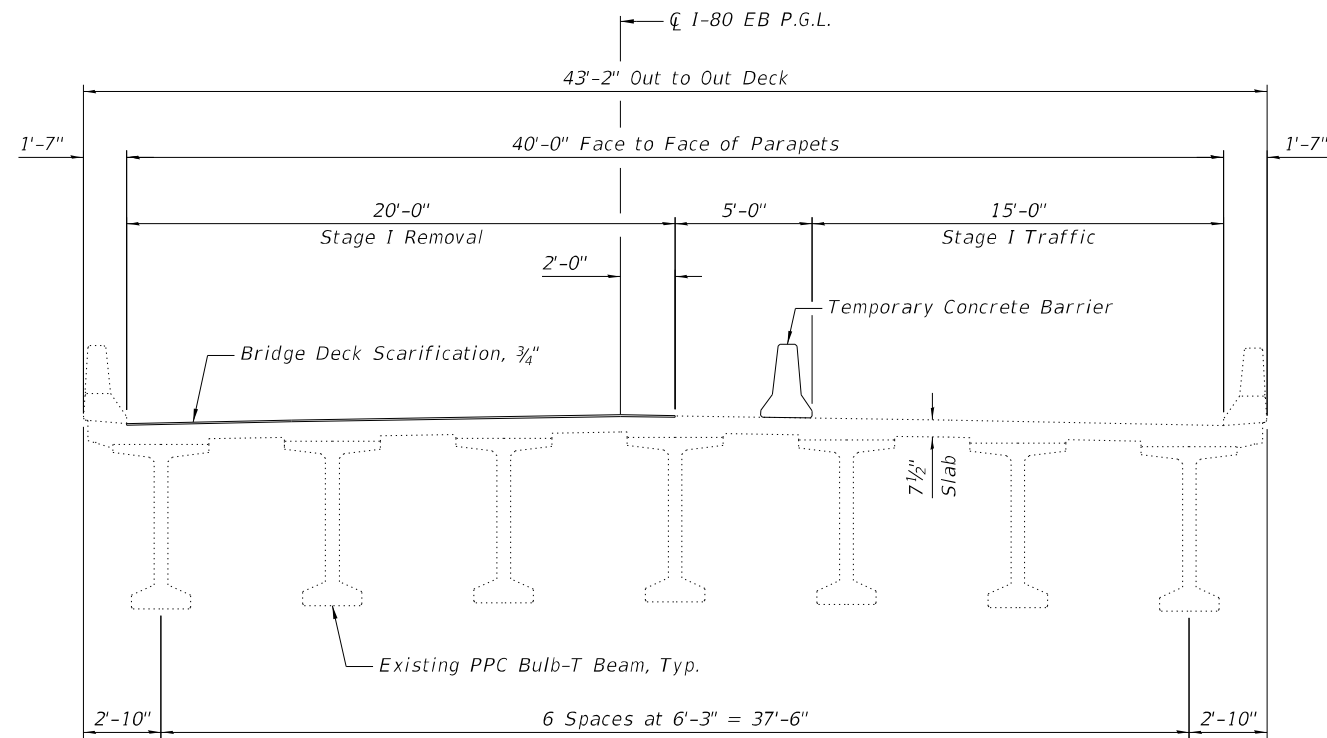
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	DRAWN - NWB	REVISED -
PLOT SCALE = 0.1667' / in.	CHECKED - KES	REVISED -
PLOT DATE = 3/21/2023	DATE - 11/17/22	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

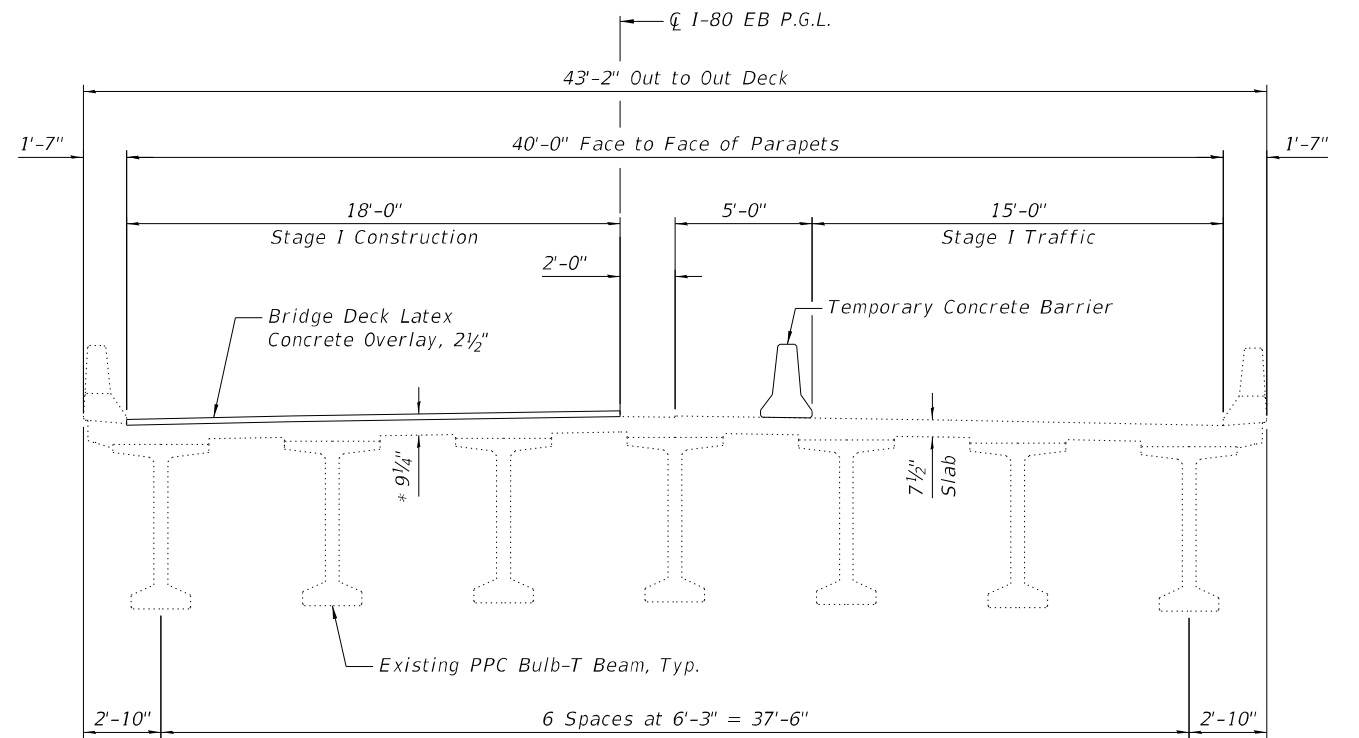
GENERAL NOTES, TOTAL BILL OF MATERIALS AND INDEX OF SHEETS
STRUCTURE NO. 050-0232 (EB)

SCALE: SHEET 15 OF 26 SHEETS STA. 597+54.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(50-4) BR	LA SALLE	45	27
CONTRACT NO. 66M33				
ILLINOIS FED. AID PROJECT				

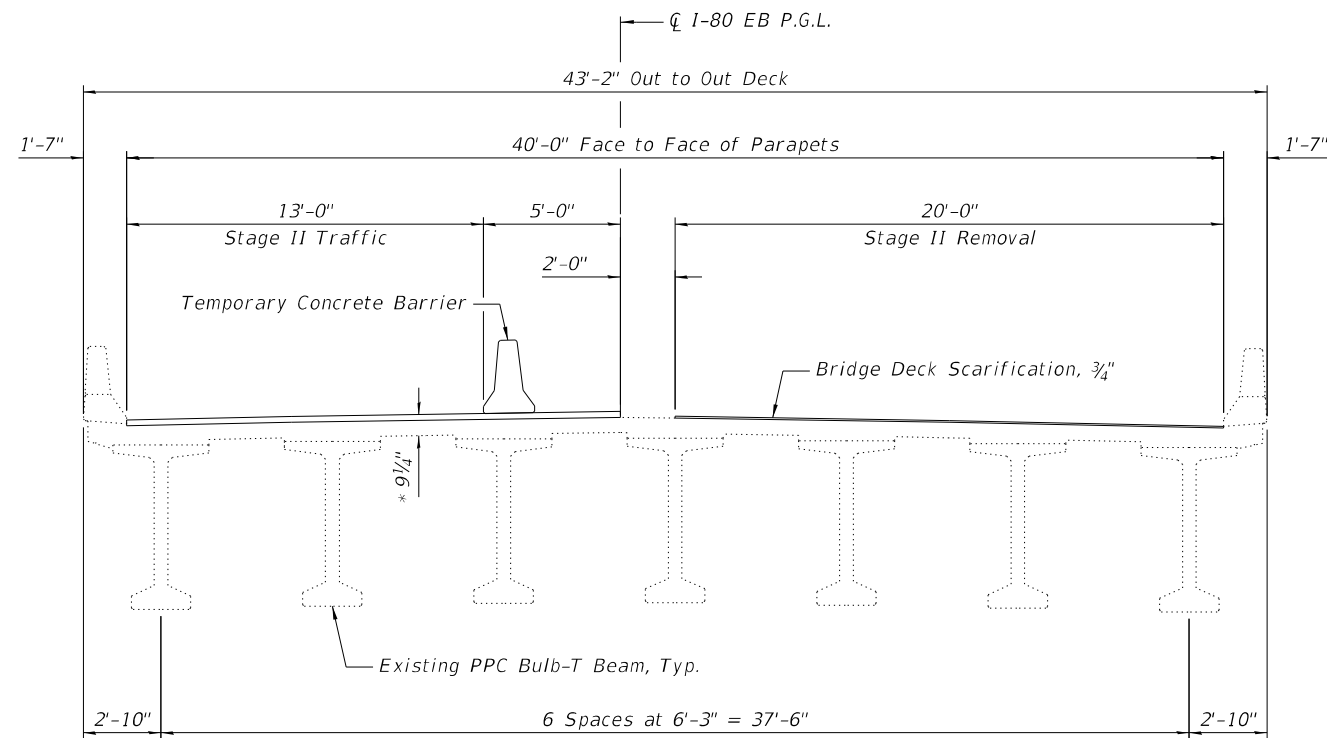


STAGE I REMOVAL
(Looking East)



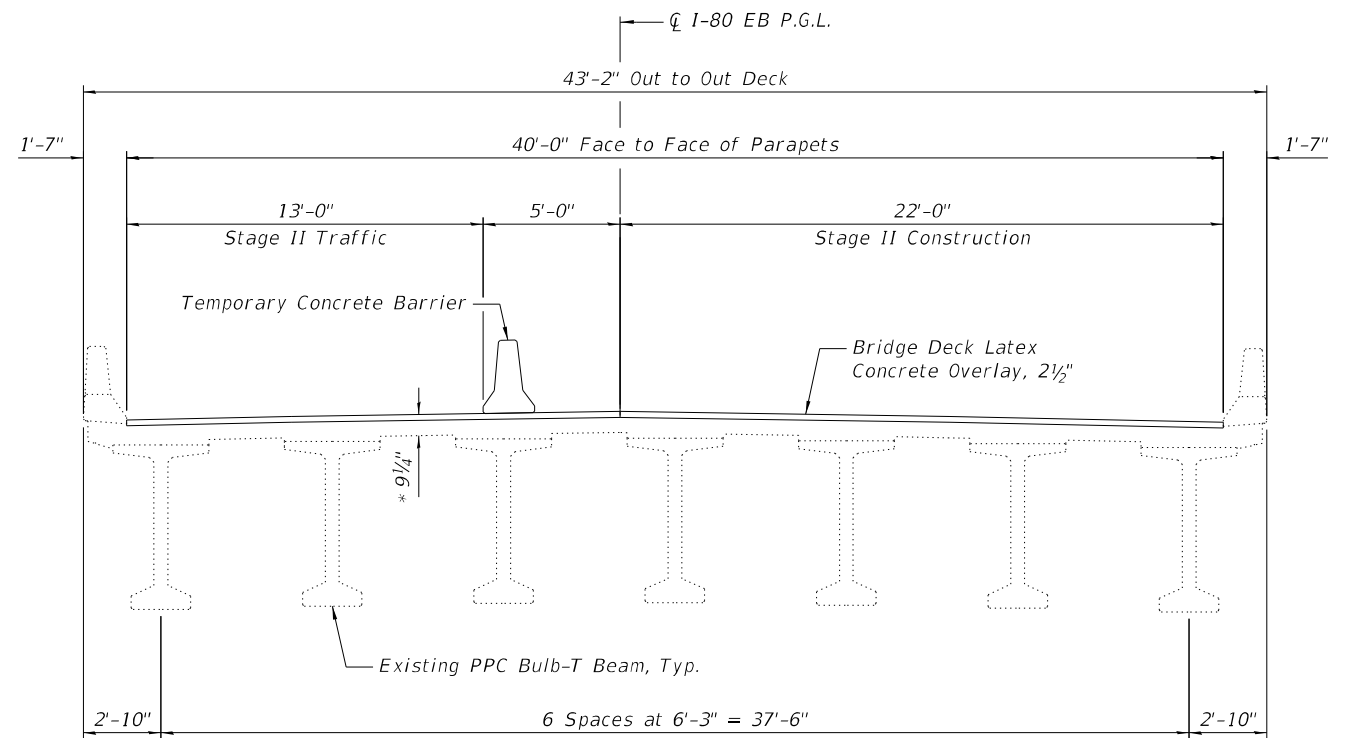
STAGE I CONSTRUCTION
(Looking East)

* Prior to 1/4" Grinding



STAGE II REMOVAL
(Looking East)

* Prior to 1/4" Grinding



STAGE II CONSTRUCTION
(Looking East)

* Prior to 1/4" Grinding

MODEL EB Stage Construction
FILE NAME: p:\cadd\m330-ep-bentley.com\paw.d\Documents\2023\1273978\10_Transportation\02_Engineering_Services\IM_Spect02_Structures\10_BIM_CADD\01_Working\WO_3_18066833_WO_3-EB_Stage_Construction



USER NAME = SARICHP	DESIGNED - NWB	REVISED -
PLOT SCALE = 0.1667' / in.	DRAWN - NWB	REVISED -
PLOT DATE = 3/20/2023	CHECKED - KES	REVISED -
	DATE - 11/17/22	REVISED -

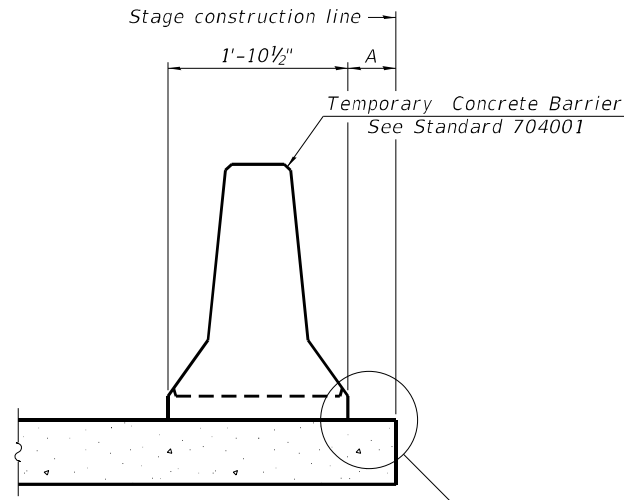
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STAGED CONSTRUCTION DETAILS
STRUCTURE NO. 050-0232 (EB)

SCALE: SHEET 16 OF 26 SHEETS STA. 597+54.00

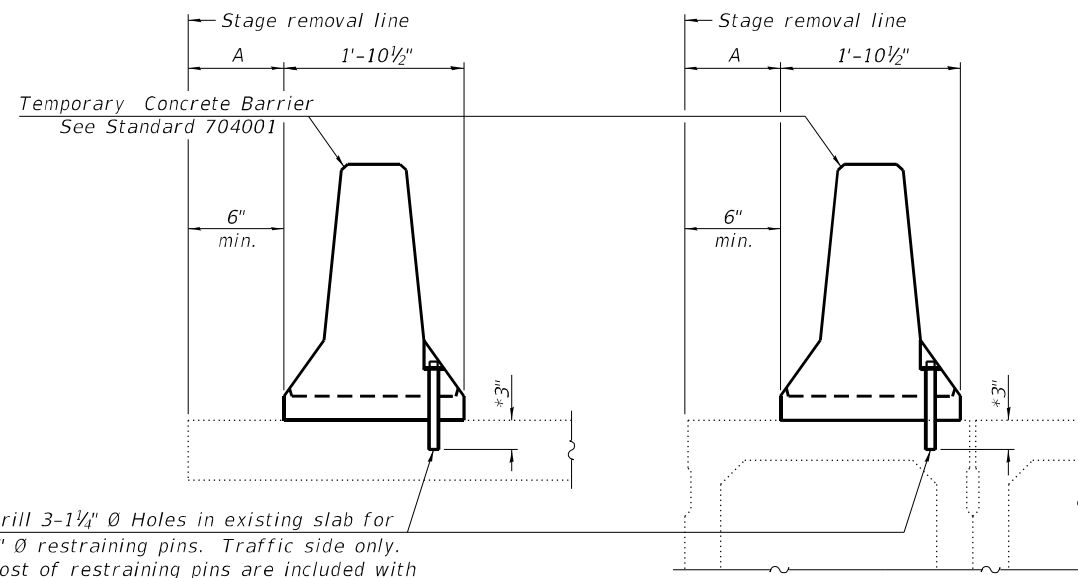
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(50-4) BR	LA SALLE	45	28
CONTRACT NO. 66M33				
ILLINOIS FED. AID PROJECT				

MODEL: EB Temporary Concrete Barrier for Staged Construction
 FILE NAME: p:\cdm\66m33\app\cdm\66m33\10 Transportation\102_Engineering_Services\10_BIM_CADD\01_Working\10_3_180_66M33_VO_3-4B_Temporary Concrete Barrier for Staged Construction



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



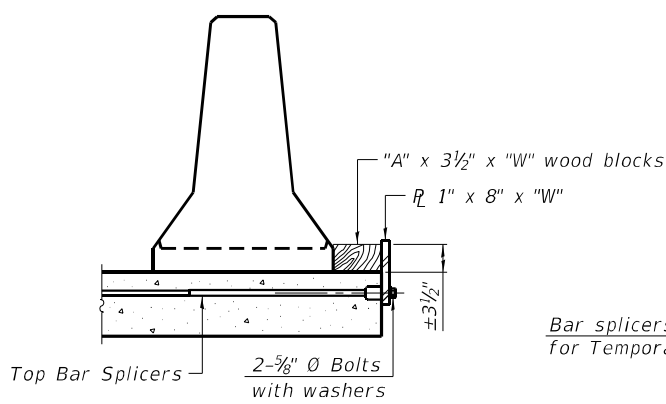
Drill 3-1/4" Ø Holes in existing slab for 1" Ø restraining pins. Traffic side only. Cost of restraining pins are included with Temporary Concrete Barrier. No restraint is required when "A" is greater than 3'-1".

EXISTING SLAB

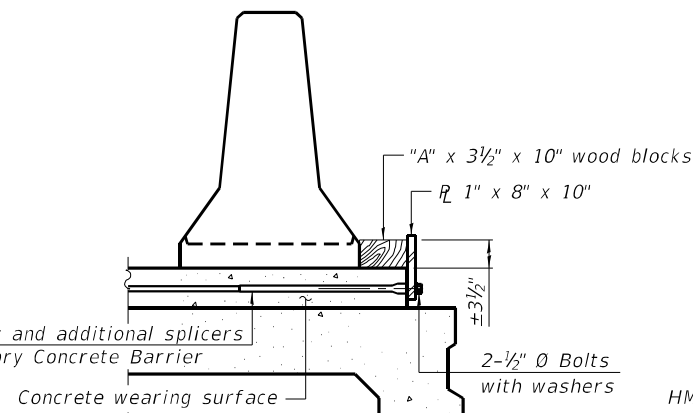
EXISTING DECK BEAM

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

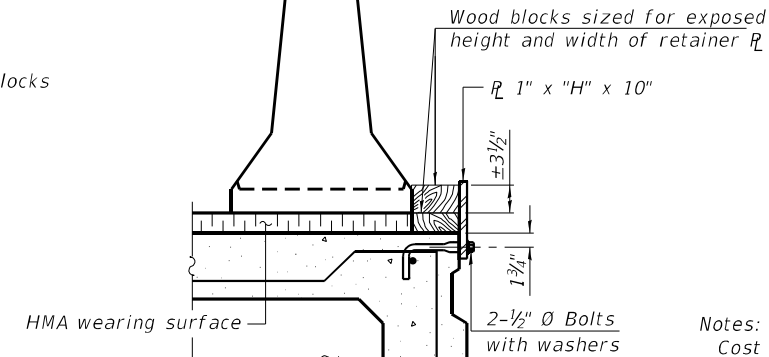
SECTIONS THRU SLAB OR DECK BEAM



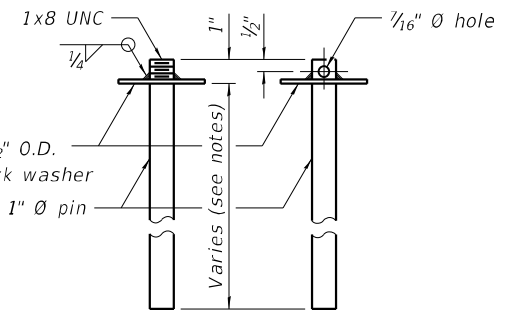
DETAIL I



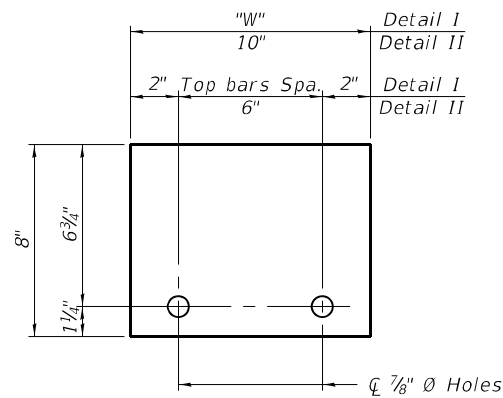
DETAIL II



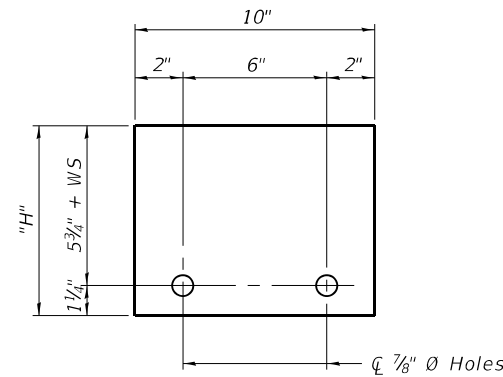
DETAIL III



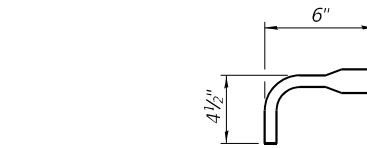
RESTRAINING PIN



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



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



BAR SPLICER FOR #4 BAR - DETAIL III

Notes:

- Cost of retainer assembly is included with Temporary Concrete Barrier.
- A retainer assembly shall be located at the approximate \bar{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.

R-27

2-17-2017



USER NAME = SARICHP	DESIGNED - NWB	REVISED -
PLOT SCALE = 0.1667' / in.	DRAWN - NWB	REVISED -
PLOT DATE = 3/20/2023	CHECKED - KES	REVISED -
	DATE - 11/17/22	REVISED -

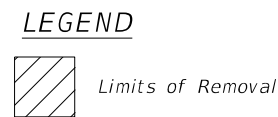
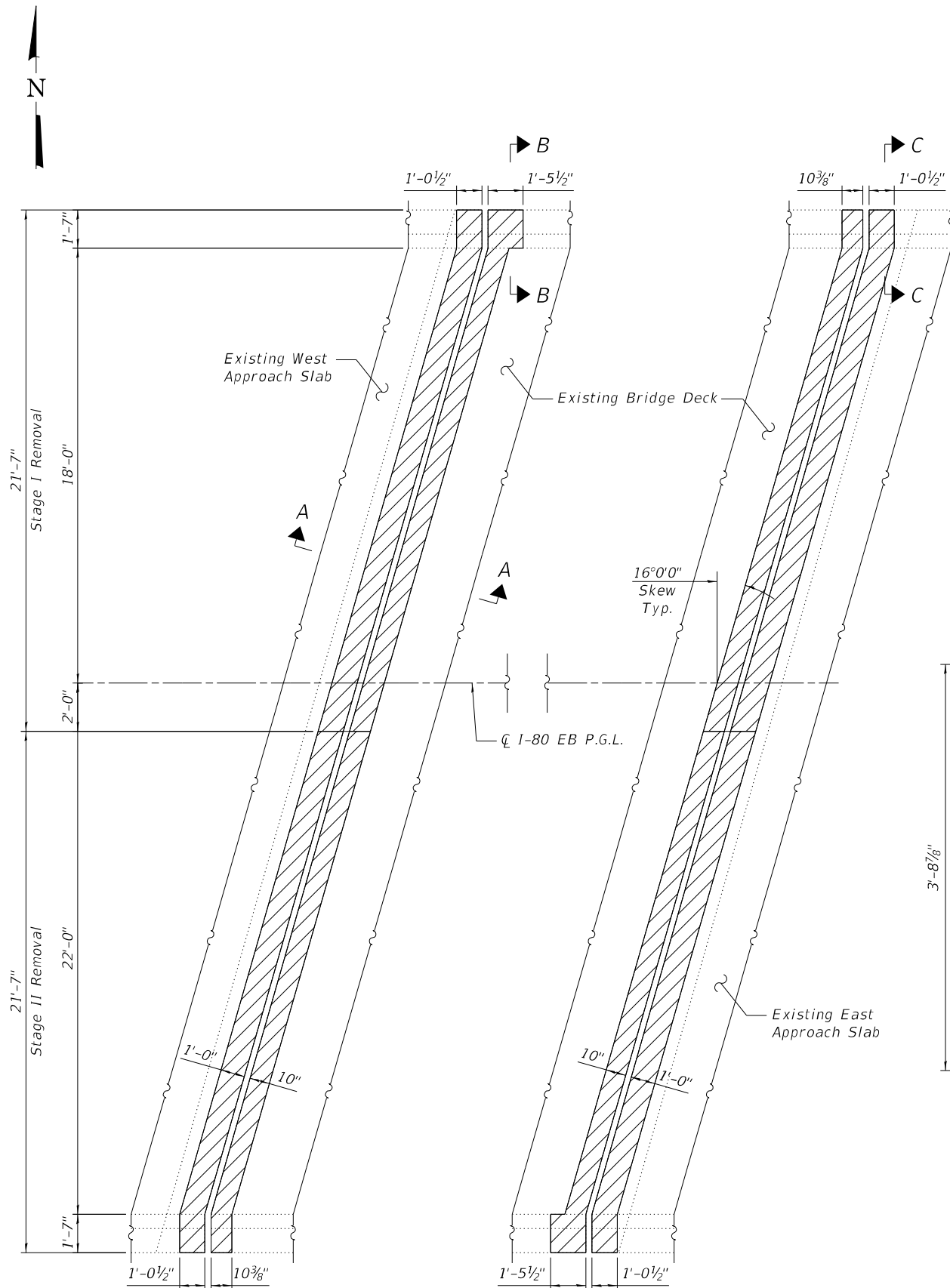
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CONCRETE BARRIER FOR STAGED CONSTRUCTION
STRUCTURE NO. 050-0232 (EB)

SCALE: SHEET 17 OF 26 SHEETS STA. 597+54.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(50-4) BR	LA SALLE	45	29
CONTRACT NO. 66M33				
ILLINOIS		FED. AID PROJECT		

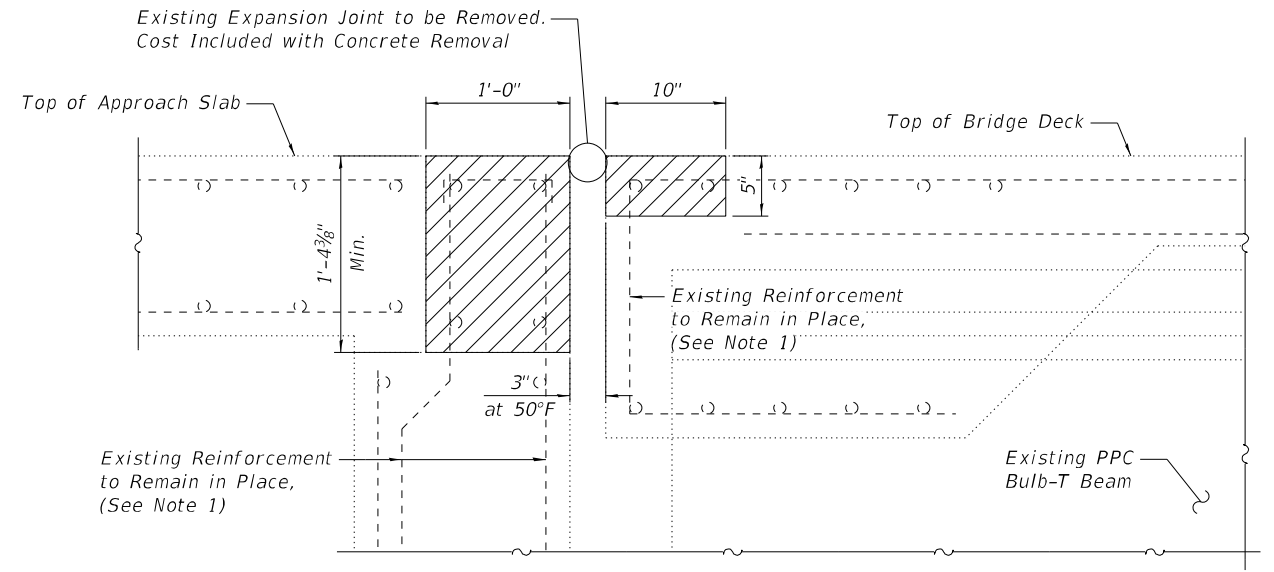
MODEL: EB Deck Removal
FILE NAME: p:\c\kenneth\2023-pp\end\by\comppw\dl\Documents\2023\1273978\10_Transportation\02_Engineering_Services\10_BIM_CADD\01_Working\WO 3_180668433_WO 3-4B Deck Removal



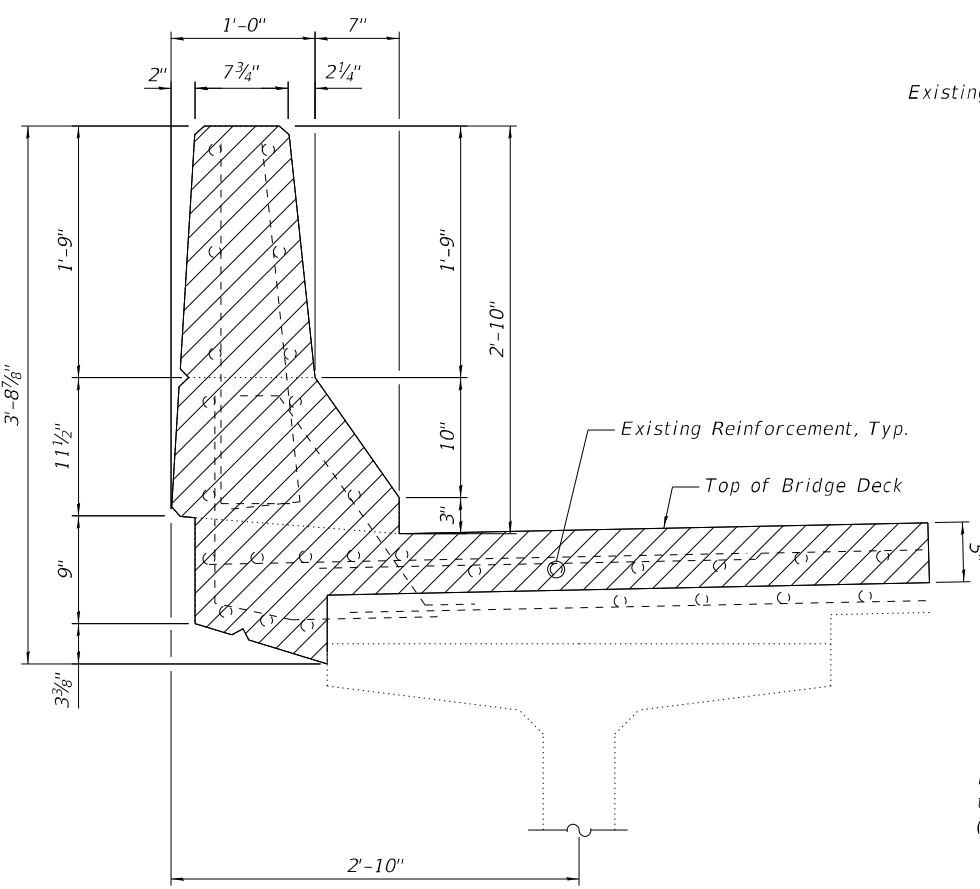
PLAN

NOTES

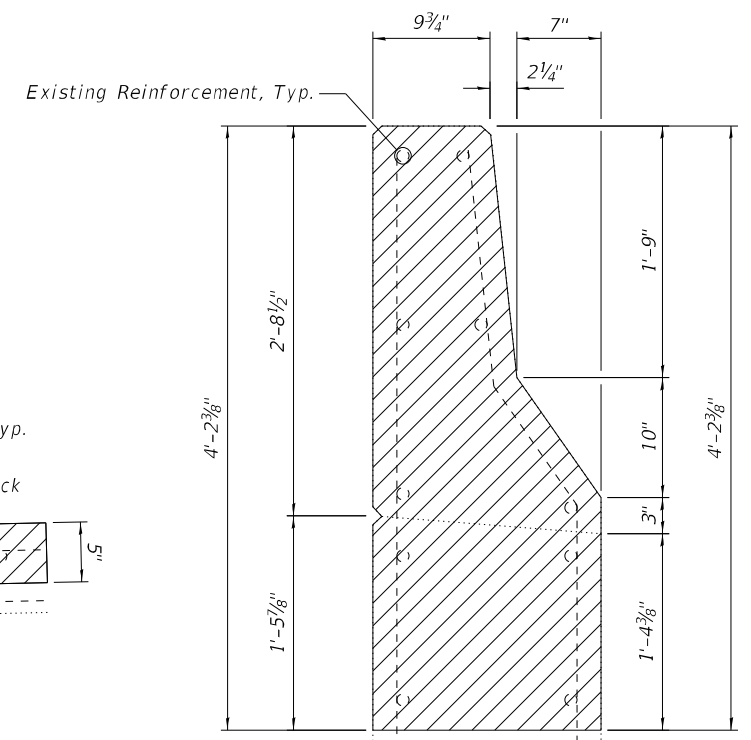
- Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into new construction. Any reinforcement bars that are damaged during concrete removal operations shall be repaired or replaced using an approved bar splicer or anchorage system. Cost included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



SECTION A-A



SECTION B-B



SECTION C-C

BILL OF MATERIAL

Item	Unit	Total
Concrete Removal	Cu. Yd.	8.0



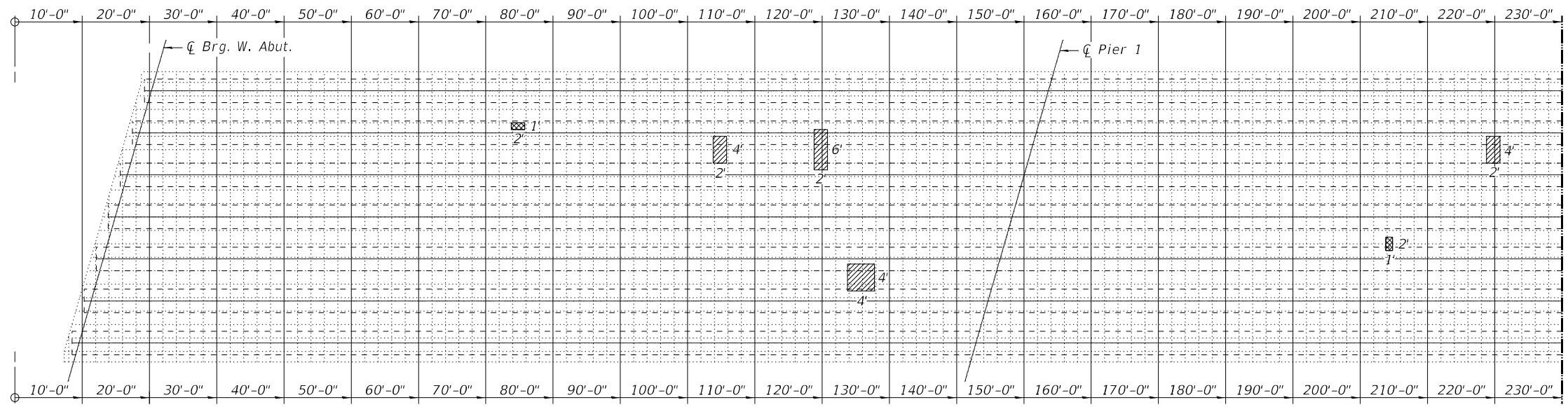
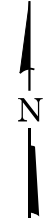
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PLOT DATE = 3/20/2023	CHECKED - KES	REVISED -
	DATE - 11/17/22	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DECK REMOVAL
STRUCTURE NO. 050-0232 (EB)**

SCALE: SHEET 18 OF 26 SHEETS STA. 597+54.00

F.A.I. RTE. 80	SECTION (50-4) BR	COUNTY LA SALLE	TOTAL SHEETS 45	SHEET NO. 30
ILLINOIS FED. AID PROJECT			CONTRACT NO. 66M33	

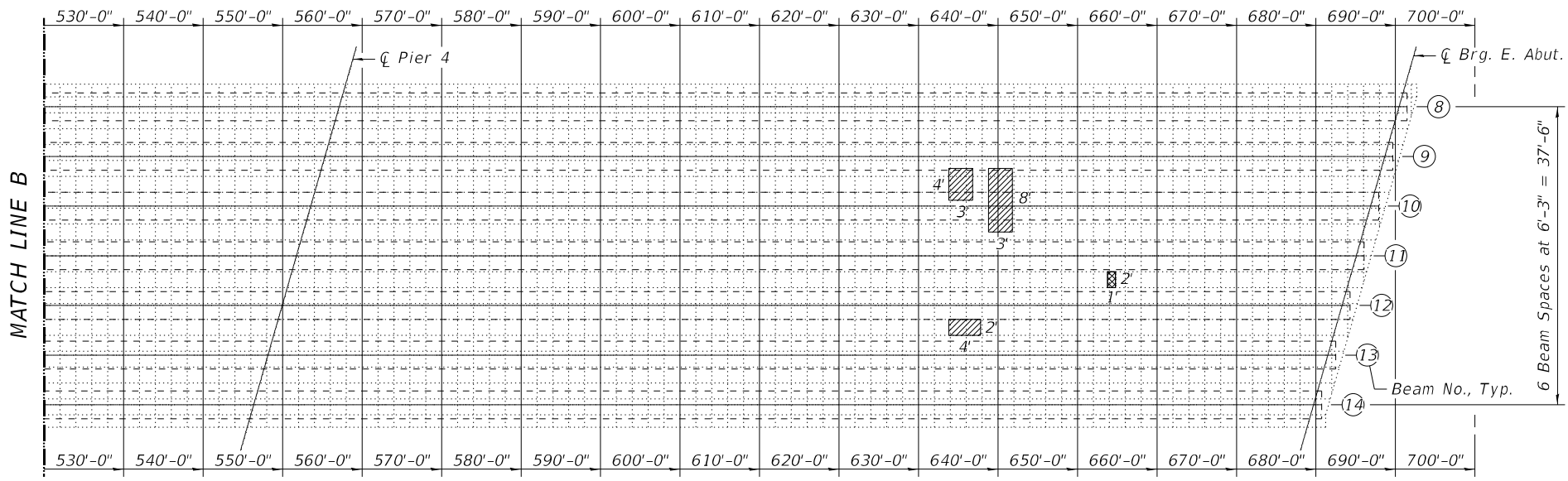
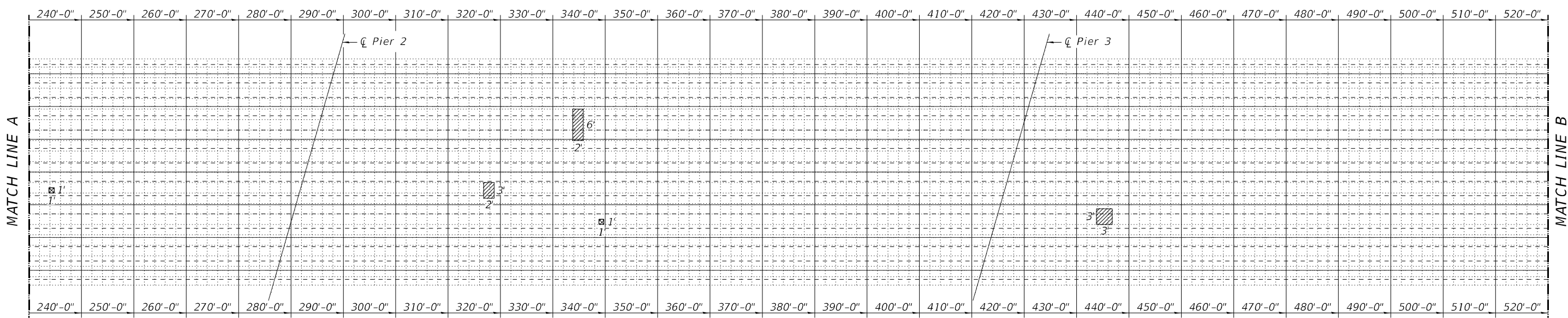


BILL OF MATERIAL

Item	Unit	Quantity
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	1
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	13

LEGEND

	Deck Slab Repair (Full Depth, Type I)
	Deck Slab Repair (Full Depth, Type II)
	2'x2' Gridlines



PLAN

NOTES:

- Deck repair areas are estimated based on a field inspection conducted in October 2022 and will be paid for as specified in the Special Provisions. The inspection did not include an underside of deck condition survey and repair areas shown on plans are based on the top of deck condition only. The engineer shall sound the entire deck after scarification operations to determine exact locations and areas of repairs needed. Actual repair areas shall be recorded on the As-built plans.

MODEL: EB Deck Repairs
FILE NAME: p:\comm\1803-ep_bentley\compaw_d\Documents\2028\1273978\10_Transportation\02_Engineering_Services\IM_Spect02_Structures\10_BIM_CADD\01_Working\WO_3_18066833_WO_3-4B_Deck_Repairs



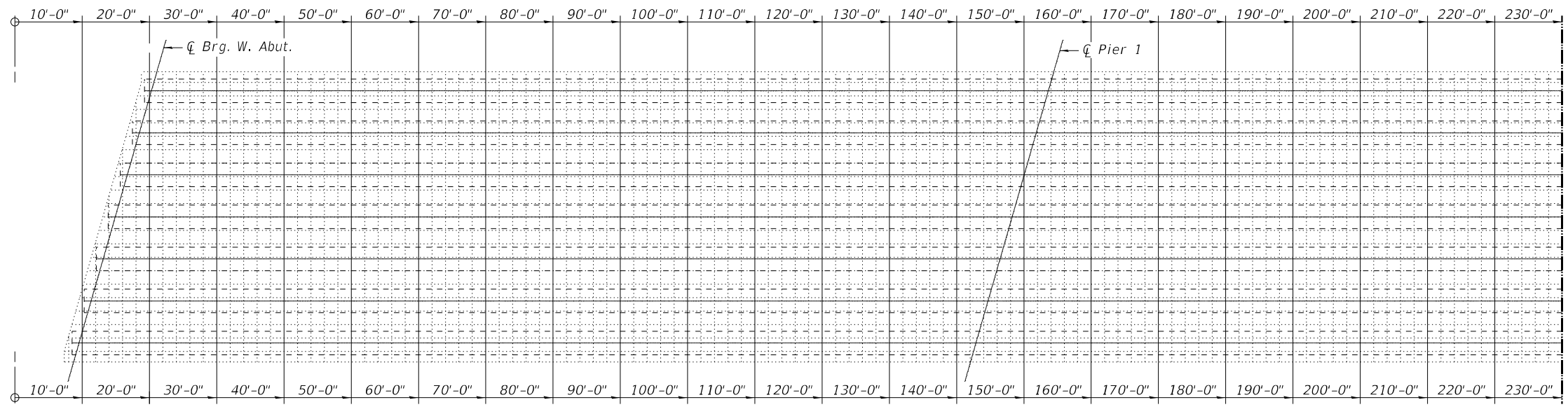
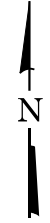
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PLOT SCALE = 0.1667' / in.	DRAWN - NWB	REVISED -
PLOT DATE = 3/21/2023	CHECKED - KES	REVISED -
	DATE - 11/17/22	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DECK REPAIRS
STRUCTURE NO. 050-0232 (EB)**

SCALE: SHEET 19 OF 26 SHEETS STA. 597+54.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(50-4) BR	LA SALLE	45	31
ILLINOIS FED. AID PROJECT			CONTRACT NO. 66M33	

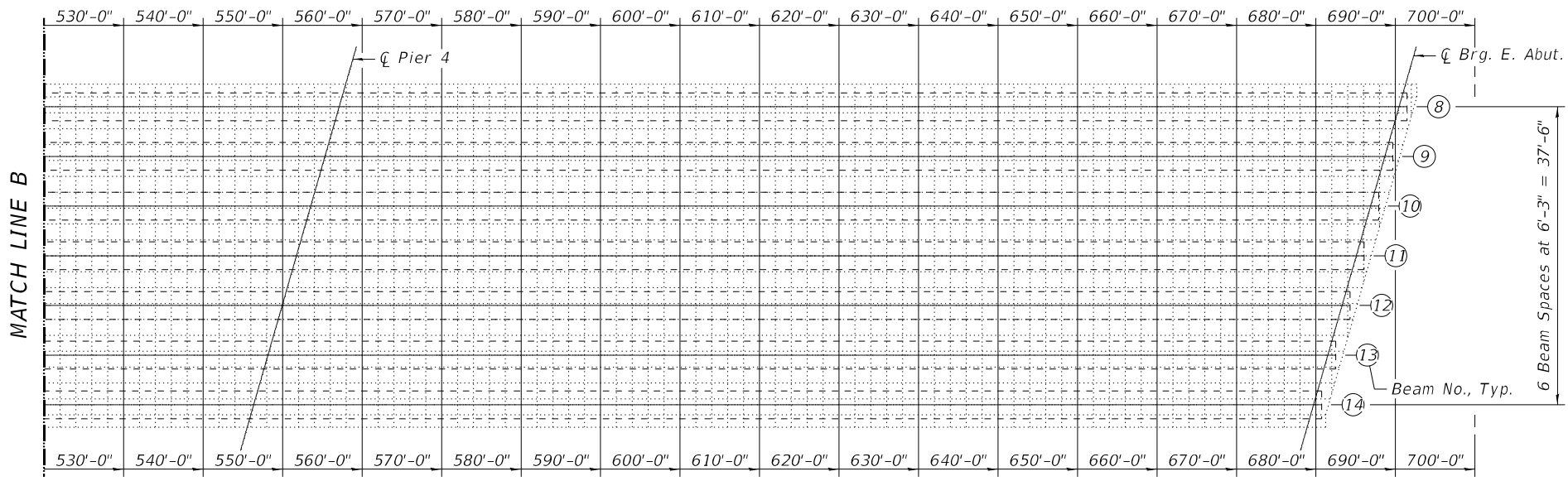
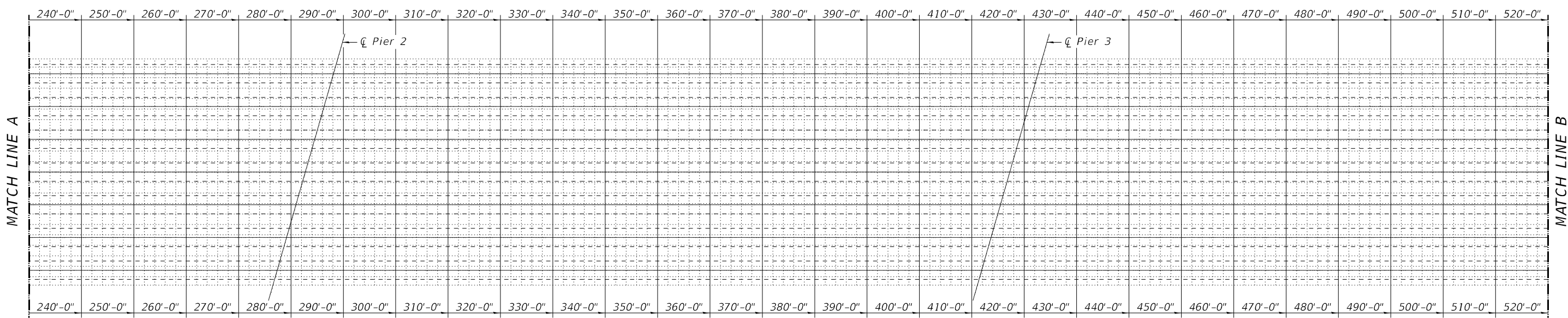


BILL OF MATERIAL

Item	Unit	Quantity
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	

LEGEND

	Deck Slab Repair (Full Depth, Type I)
	Deck Slab Repair (Full Depth, Type II)
	2'x2' Gridlines



PLAN

NOTES:

- The engineer shall mark the actual area and locations of deck slab repair as part of the "As-Built" plans.

MODEL: NB Deck Repairs
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USER NAME = SARICHP	DESIGNED - NWB	REVISED -
PLOT SCALE = 0.1667' / in.	DRAWN - NWB	REVISED -
PLOT DATE = 3/21/2023	CHECKED - KES	REVISED -
	DATE - 11/17/22	REVISED -

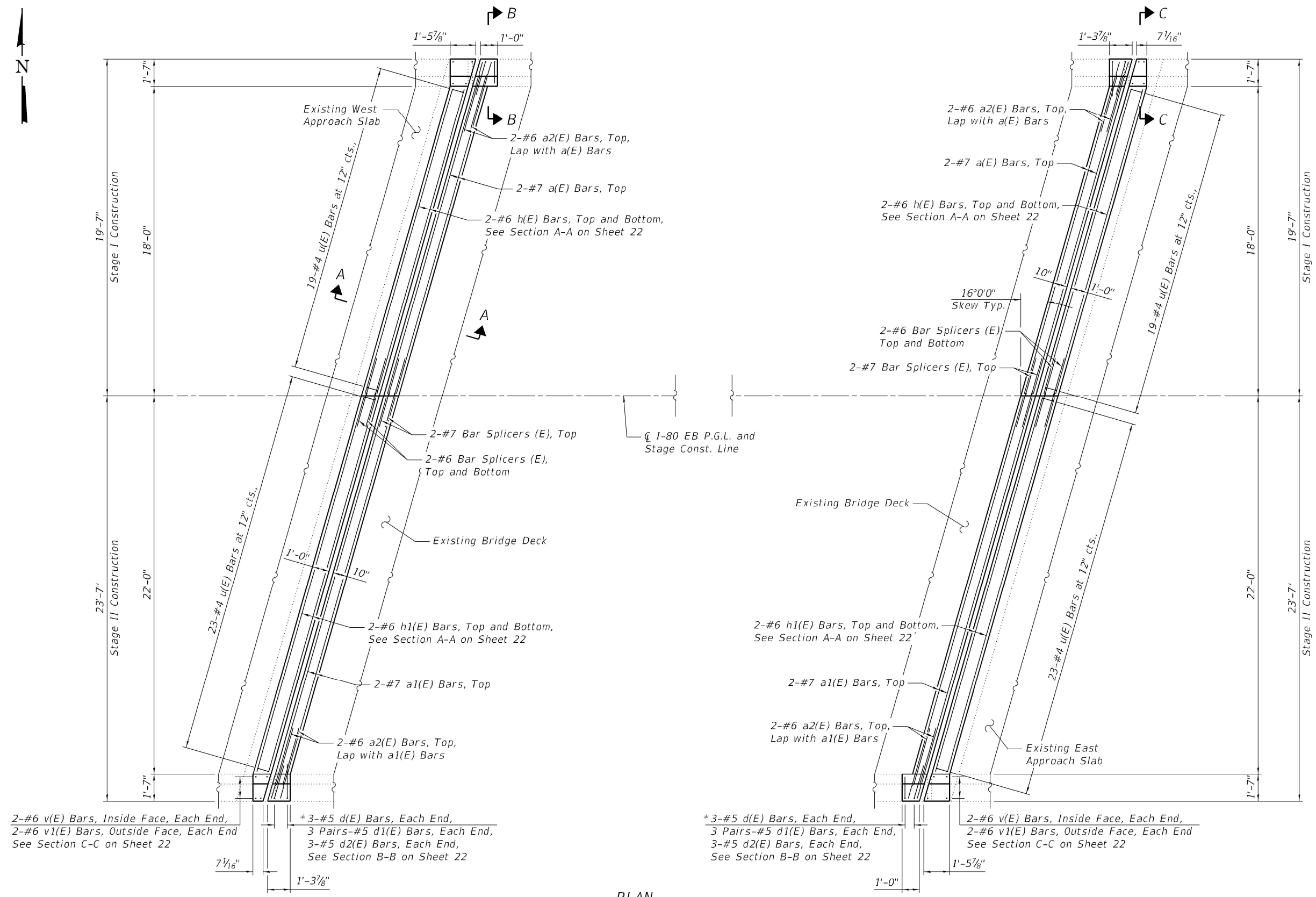
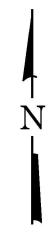
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DECK REPAIRS - AS BUILT
STRUCTURE NO. 050-0232 (EB)

SCALE: SHEET 20 OF 26 SHEETS STA. 597+54.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(50-4) BR	LA SALLE	45	32
			CONTRACT NO. 66M33	
		ILLINOIS FED. AID PROJECT		

MODEL: EB Deck Reconstruction Plan
 FILE NAME: p:\projects\66633\66633.dwg
 PLOT DATE: 3/21/2023
 USER: SARICHPS
 DESIGNED: NWB
 DRAWN: NWB
 CHECKED: KES
 DATE: 11/17/22



PLAN

*Cut or bend d(E) bars to fit

NOTES

1. For Section A-A, B-B and C-C, See Sheet 22.



USER NAME = SARICHPS	DESIGNED - NWB	REVISED -
PLOT SCALE = 0.1667' / in.	DRAWN - NWB	REVISED -
PLOT DATE = 3/21/2023	CHECKED - KES	REVISED -
	DATE - 11/17/22	REVISED -

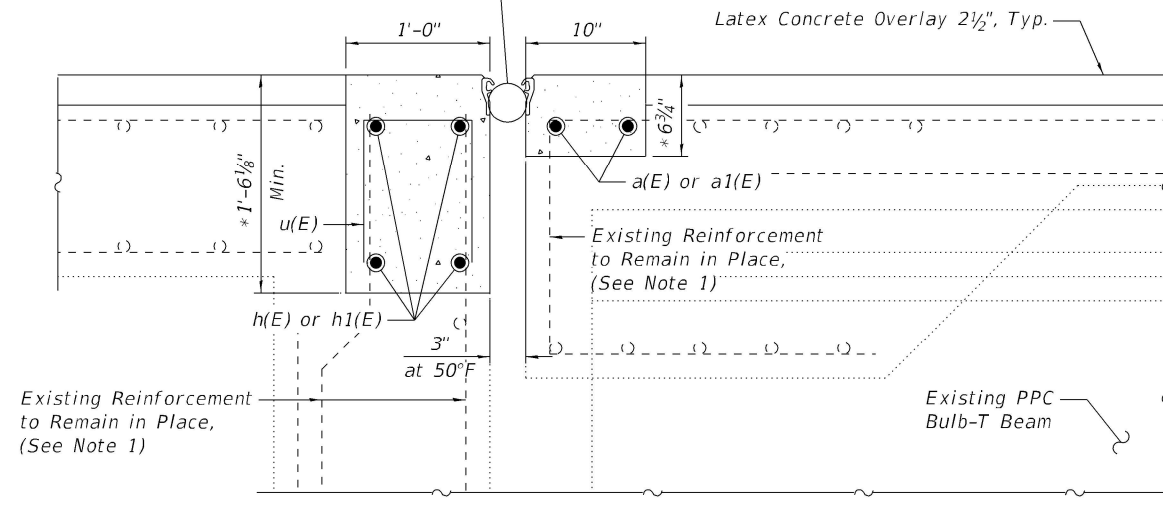
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DECK RECONSTRUCTION PLAN
STRUCTURE NO. 050-0232 (EB)**

SCALE: SHEET 21 OF 26 SHEETS STA. 597+54.00

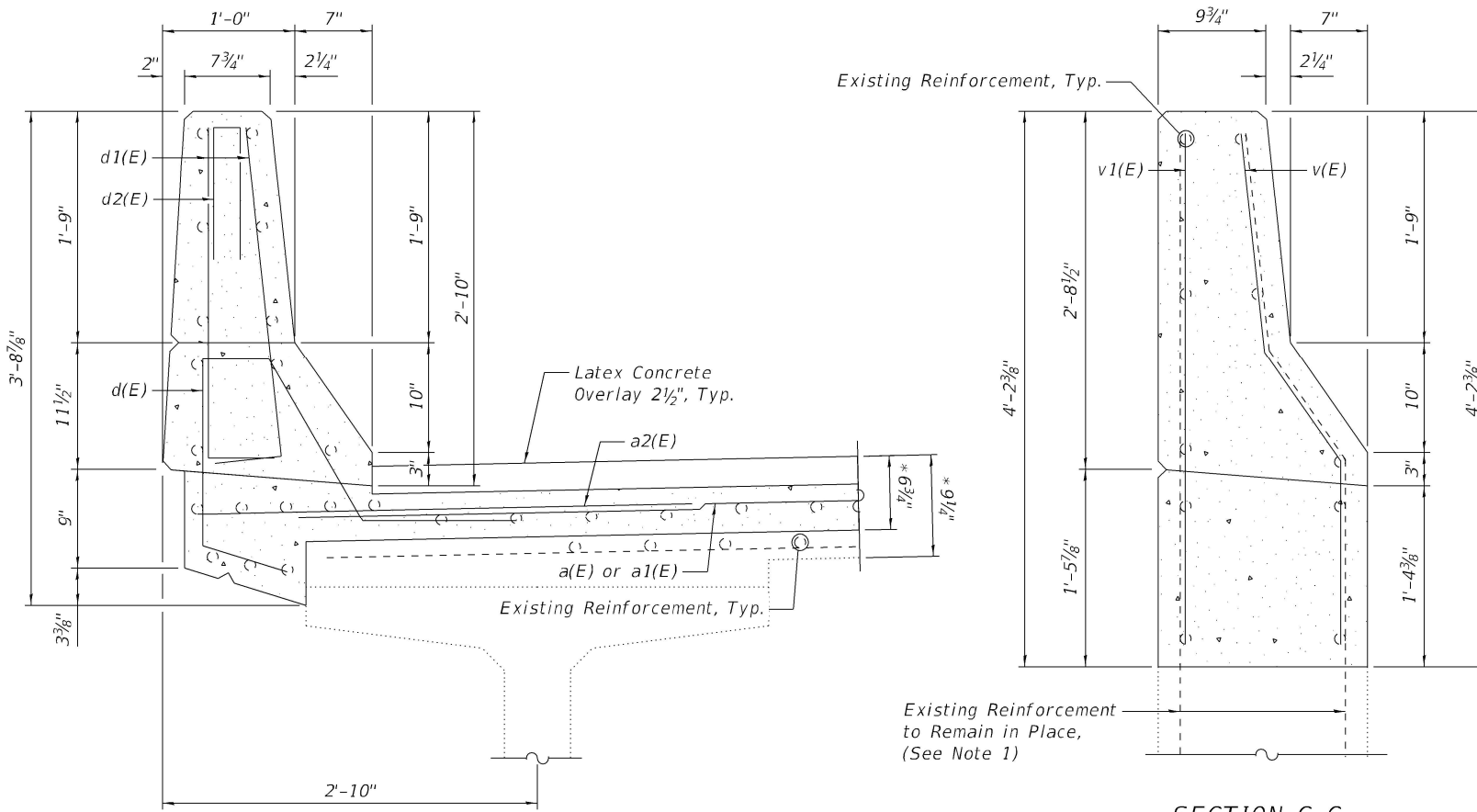
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(50-4) BR	LA SALLE	45	33
CONTRACT NO. 66M33				
ILLINOIS FED. AID PROJECT				

For Expansion Joint Details, See Sheet 24



SECTION A-A

*Prior to Grinding



SECTION B-B

*Prior to Grinding

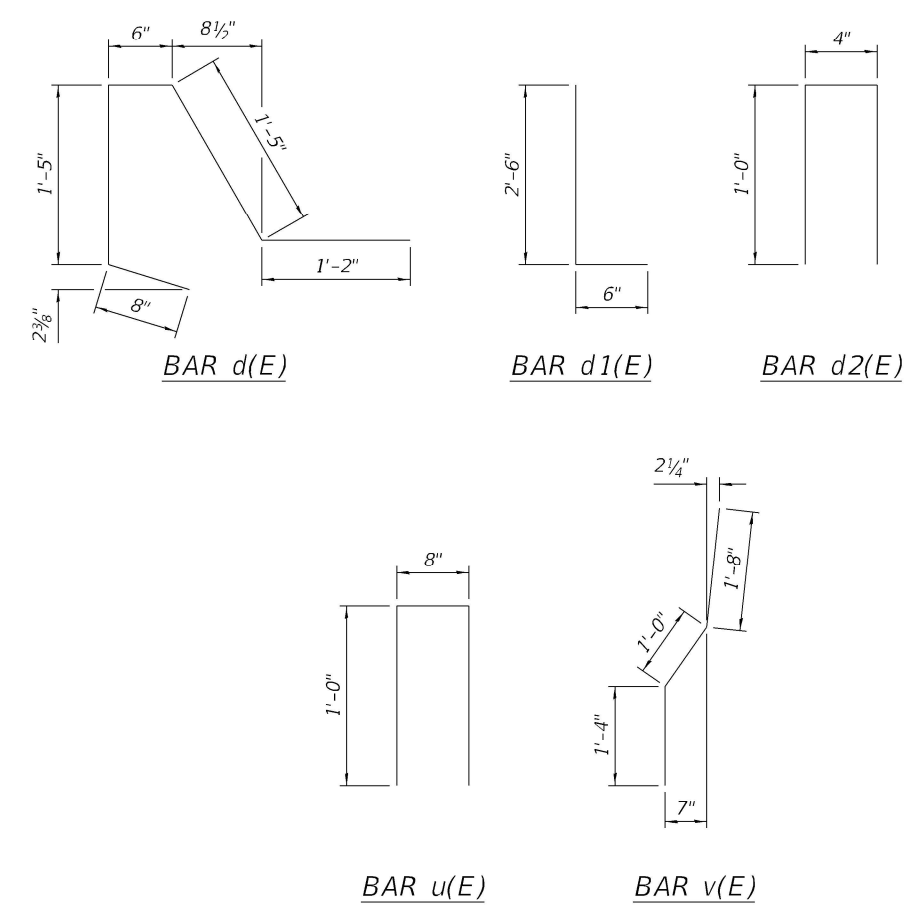
SECTION C-C

NOTES

- Existing longitudinal reinforcement shown are to be cleaned and incorporated into new construction.
- Bar list and bill of material shown on sheet is for both expansion joint replacements.

**SUPERSTRUCTURE
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a(E)	4	#7	19'-3"	—
a1(E)	4	#7	23'-5"	—
a2(E)	8	#6	4'-0"	—
d(E)	12	#5	5'-2"	⌋
d1(E)	24	#5	3'-0"	⌋
d2(E)	12	#4	2'-4"	⌋
h(E)	8	#6	18'-5"	—
h1(E)	8	#6	22'-7"	—
u(E)	84	#4	2'-8"	⌋
v(E)	8	#6	4'-0"	—
v1(E)	8	#6	3'-10"	—
Concrete Superstructure			Cu. Yd.	8.0
Protective Coat			Sq. Yd.	3,327
Reinforcement Bars, Epoxy Coated			Pound	1,300
Bar Splicers			Each	12
Bridge Deck Grooving (Longitudinal)			Sq. Yd.	1,994
Bridge Deck Latex Concrete Overlay, 2 1/2"			Sq. Yd.	3,323
Diamond Grinding (Bridge Section)			Sq. Yd.	2,991



MODEL: EB Deck Removal; FILE: MULES; PROJECT: 66M33-02-PP; BENTLEY: COMPASS; PLOT DATE: 3/21/2023; USER: SARICHP; DESIGNED: NWB; DRAWN: NWB; CHECKED: KES; DATE: 11/17/22; REVISIONS: NONE; STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION; DECK RECONSTRUCTION DETAILS; STRUCTURE NO. 050-0232 (EB); SCALE: 1/8" = 1'-0"; SHEET 22 OF 26 SHEETS; STA. 597+54.00; COUNTY: LA SALLE; CONTRACT NO. 66M33; ILLINOIS FED. AID PROJECT

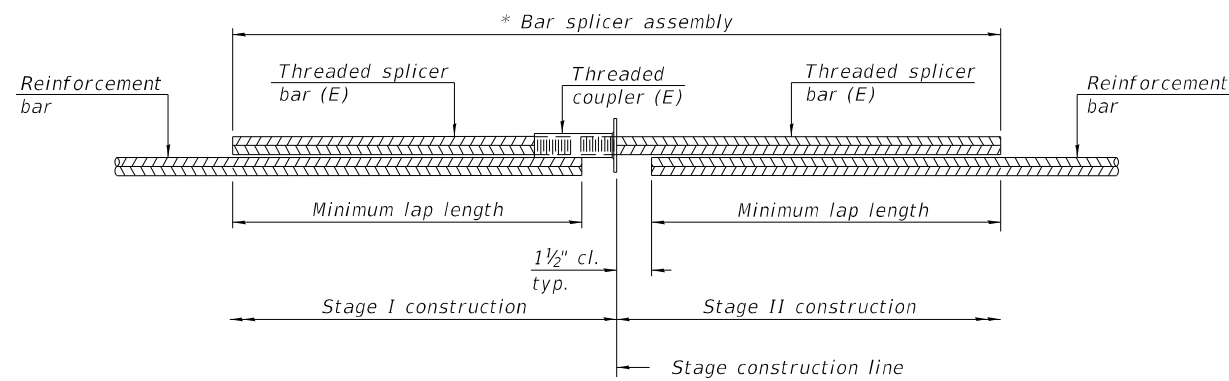


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PLOT SCALE = 0.1667' / in.	DRAWN - NWB	REVISED -
PLOT DATE = 3/21/2023	CHECKED - KES	REVISED -
	DATE - 11/17/22	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DECK RECONSTRUCTION DETAILS
STRUCTURE NO. 050-0232 (EB)**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(50-4) BR	LA SALLE	45	34
CONTRACT NO. 66M33				



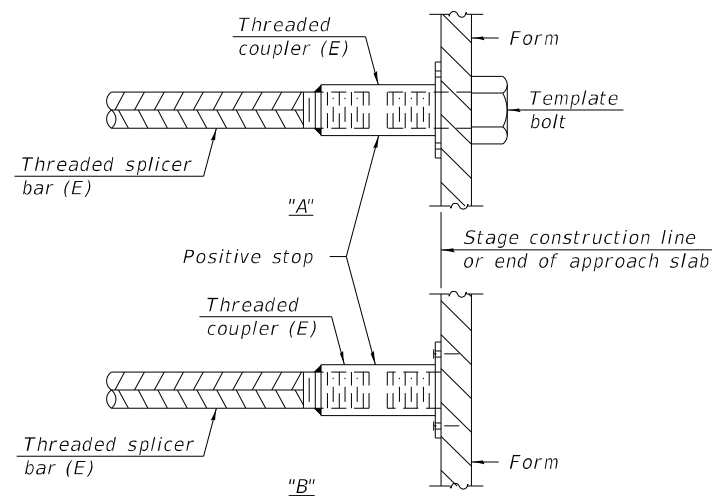
STANDARD BAR SPLICER ASSEMBLY PLAN

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
West Appr. Slab	#6	4	3'-10"
West Deck	#7	2	4'-5"
East Appr. Slab	#6	4	3'-10"
East Deck	#7	2	4'-5"

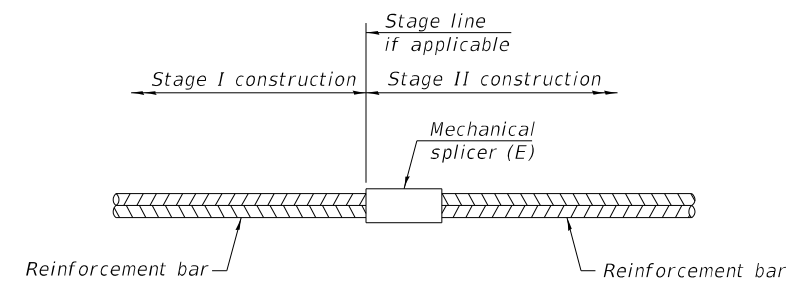


INSTALLATION AND SETTING METHODS

"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

Notes:

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

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

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

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

MODEL: WB Deck Reconstruction Details; FILE NAME: p:\work\66m33\66m33.dwg; DATE: 11/17/22; TIME: 10:10:10; USER: SARICHP; PLOT DATE: 3/20/2023

BSD-1

2-1-2023



USER NAME = SARICHP	DESIGNED - NWB	REVISED -
PLOT SCALE = 0.1667' / in.	DRAWN - NWB	REVISED -
PLOT DATE = 3/20/2023	CHECKED - KES	REVISED -
	DATE - 11/17/22	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
STRUCTURE NO. 050-0232 (EB)**

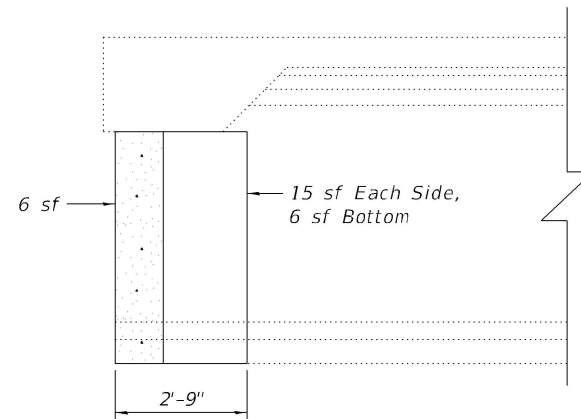
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(50-4) BR	LA SALLE	45	35
ILLINOIS			FED. AID PROJECT	

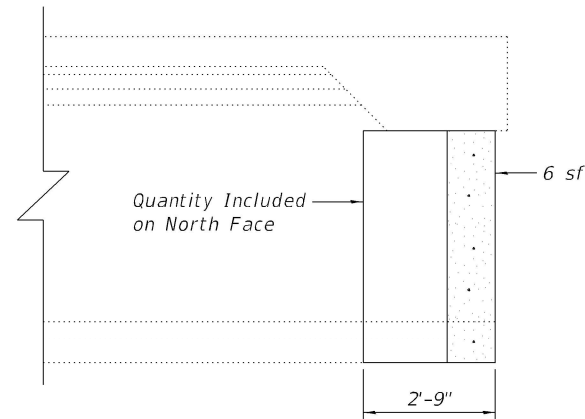
CONTRACT NO. 66M33

NOTES:

1. Beam repair areas are estimated based on a field inspection conducted in October 2022 and will be paid for as specified in the Special Provisions. The inspection did not include a complete superstructure beam evaluation and only consisted of inspecting beam ends under the expansion joints at abutments. The engineer shall confirm repair limits shown in plans are still accurate at time of construction and shall inspect existing beams along the full length of bridge for consideration of any additional areas in need of repair.
2. Spacing between each vertical panel shall be 1" and shall extend a minimum of 12" beyond the beam repair zone. Vertical panels located above the bearing location shall be placed in two pieces as shown in Section A-A. At locations in front of the bearing, the vertical panels shall be one continuous strip wrapping beneath of the bottom flanges as shown in Section B-B.
3. Horizontal anchorage strips shall be 6" wide and extend a minimum of 6" beyond the vertical panels. The horizontal anchorage strips shall be placed as shown on plans or as recommended by the manufacturer.
4. Spalled concrete and/or exposed reinforcement shall be repaired according to the Special Provision Precast Prestressed Concrete I-Beam Repair.
5. All cracks greater than 0.007 in. shall be injected with epoxy according to Section 590 of the Standard Specifications for Road and Bridge Construction.
6. Acrylic coating shall be placed over fiber wrap repairs. Two coats shall be applied. See Special Provisions.
7. See Special Provision for FRP Strengthening For PPC I-Beam Repairs.



ELEVATION - BEAM 8 NORTH FACE
(Looking South at East Abut.)



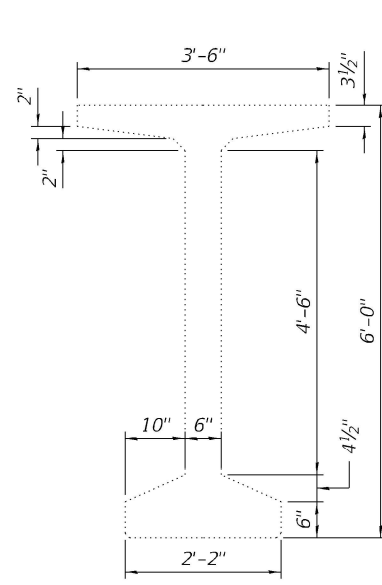
ELEVATION - BEAM 8 SOUTH FACE
(Looking North at East Abut.)

BILL OF MATERIAL

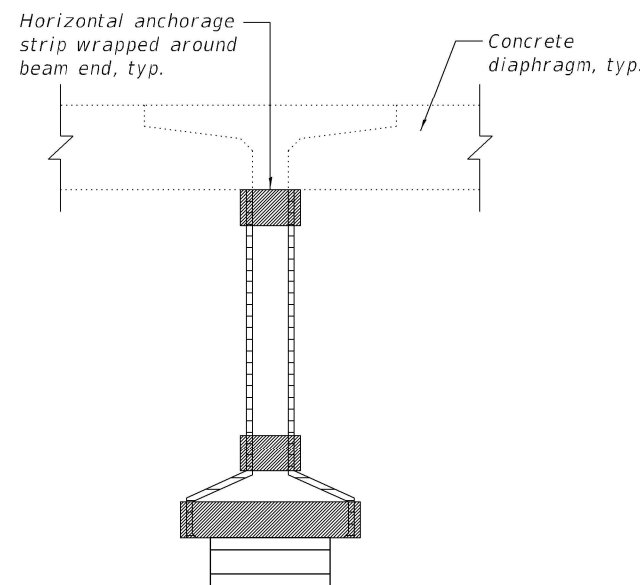
Item	Unit	Quantity
Acrylic Coating	Sq. Yd.	4
Fiber Wrap	Sq. Ft.	36
Precast Prestressed Concrete I-Beam Repair	Sq. Ft.	12

LEGEND

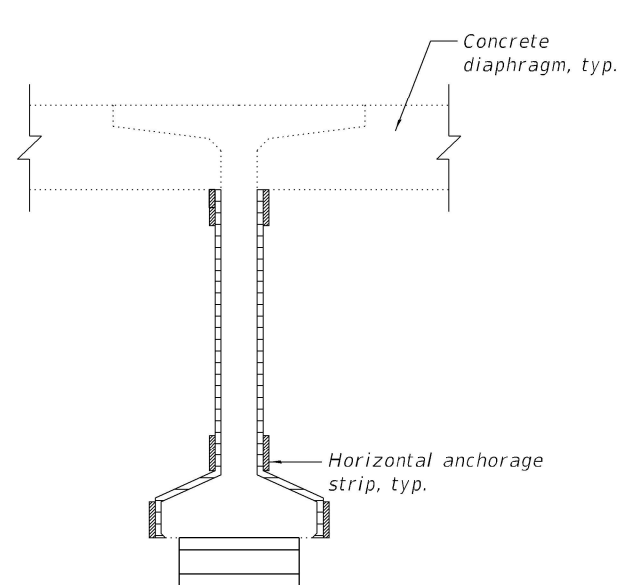
- Fiber Wrap Repair and Acrylic Coating Limits
- Precast Prestressed Concrete I-Beam Repair
- Vertical Panel Strip
- Horizontal Anchor Strip



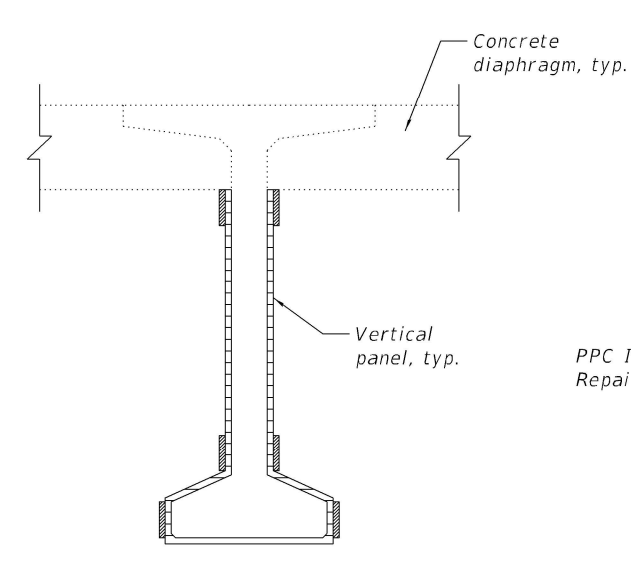
CROSS SECTION
(Showing Dimensions)



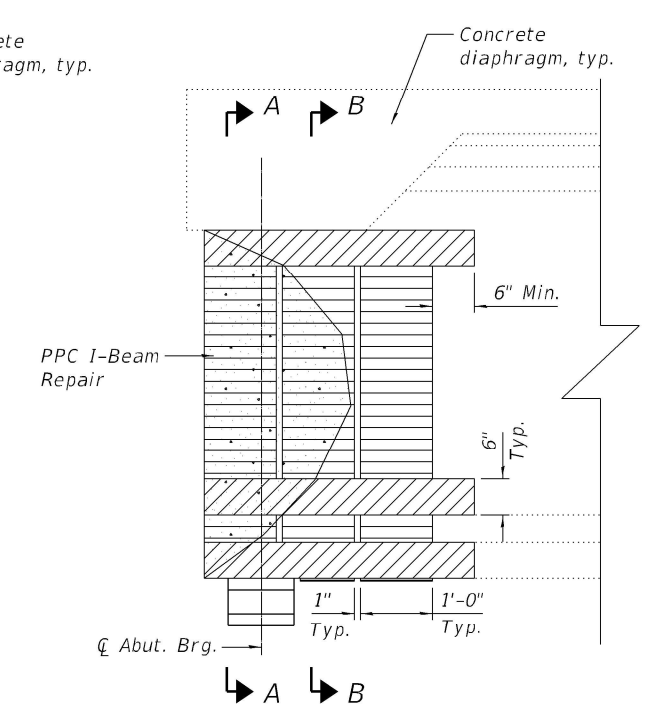
BEAM END VIEW



SECTION A-A



SECTION B-B



TYPICAL BEAM END REPAIR

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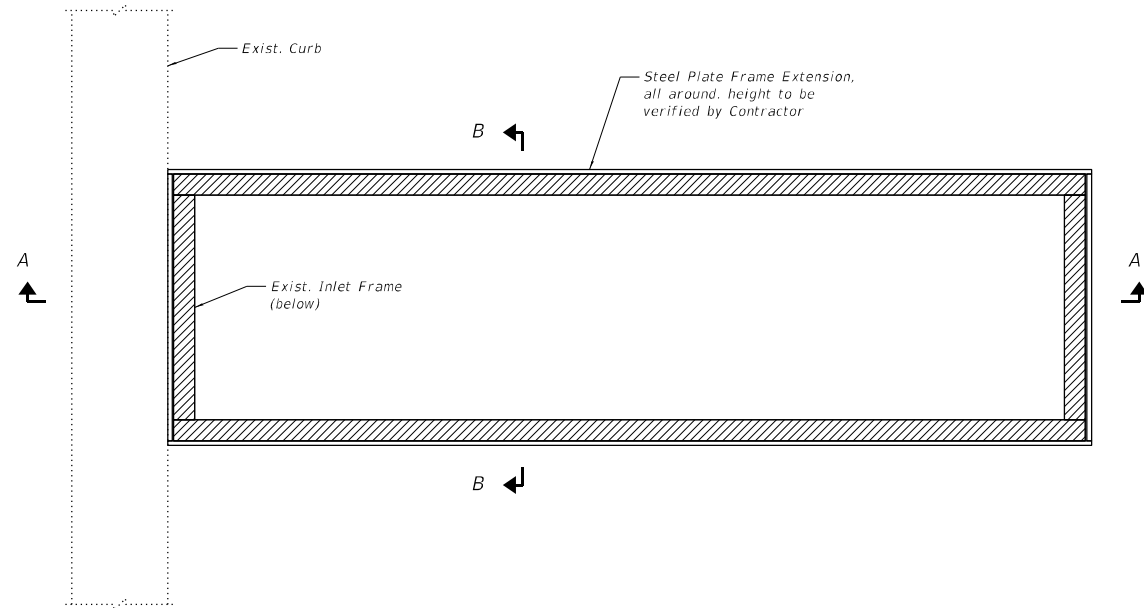
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PLOT DATE = 3/21/2023	CHECKED - KES	REVISED -
	DATE - 11/17/22	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PPC BEAM REPAIR DETAILS
STRUCTURE NO. 050-0232 (EB)**

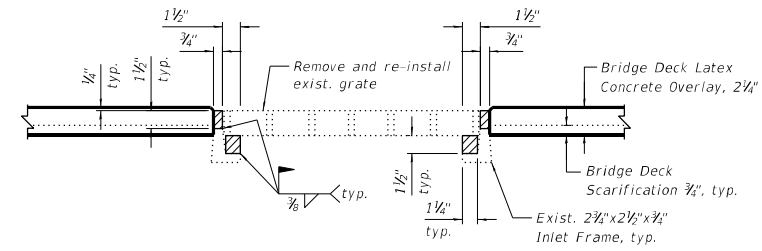
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(50-4) BR	LA SALLE	45	37
			CONTRACT NO. 66M33	
ILLINOIS FED. AID PROJECT				

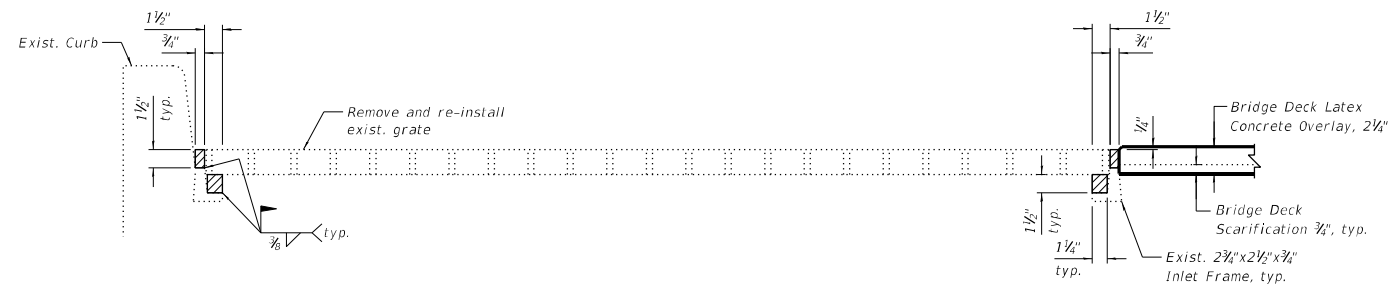


SHOULDER INLET PLAN

(Exist. grate not shown for clarity)



SECTION B-B



SECTION A-A

LEGEND

Steel Plate Frame Extension

BILL OF MATERIAL

Item	Unit	Quantity
Frames and Grates to be Adjusted	Each	3

NOTES:

- All structural steel shall be AASHTO M270 Grade 36.
- Shop drawings for proposed Steel plate Frame Extension shall be submitted for approval prior to fabrication. Cost included with Frames and Grates to be Adjusted.
- Contractor shall ensure that no damage is done to existing grates to be reused.
- Cost of all labor and materials necessary to remove existing grates, clean existing inlets, install Steel plate Frame Extensions, and reinstall grates is included in the cost per unit each for Frames and Grates to be Adjusted.

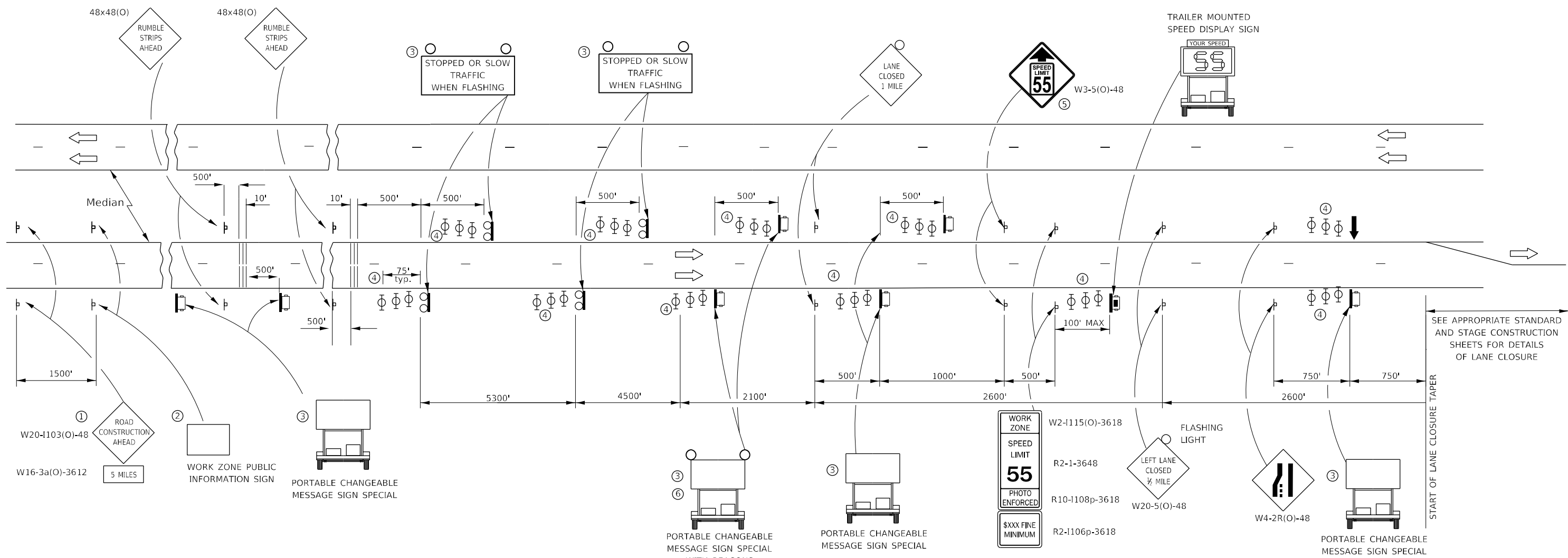
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USER NAME = SARICHP5	DESIGNED - NWB	REVISED -
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PLOT DATE = 3/20/2023	CHECKED - KES	REVISED -
	DATE - 11/17/22	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

INLET DETAILS STRUCTURE NO. 050-0232 (EB)		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		80	(50-4) BR	LA SALLE	45	38
SCALE:		SHEET 26 OF 26 SHEETS		STA. 597+54.00		ILLINOIS FED. AID PROJECT
				CONTRACT NO. 66M33		

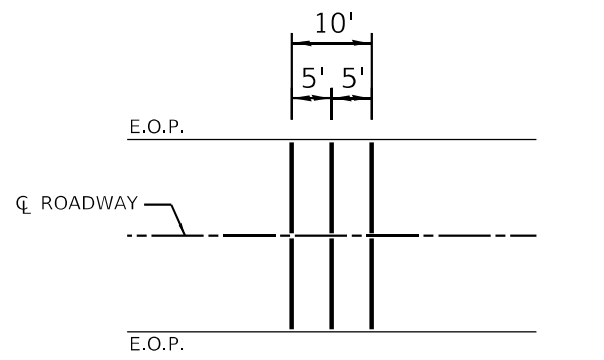


NOTES:

- ① THE ROAD CONSTRUCTION AHEAD SIGN SHALL BE LOCATED 5 MILES IN ADVANCE OF THE PROJECT LIMITS.
- ② THE MESSAGE AND SIZE OF THE WORK ZONE PUBLIC INFORMATION SIGN SHALL BE AS SPECIFIED BY THE DEPARTMENT.
- ③ UNIT TO BE PAID FOR SEPARATELY. TO BE PLACED OUTSIDE OF EXISTING PAVED SHOULDER. ANY REQUIRED EARTHWORK INCLUDED IN THE COST OF THE UNIT.
- ④ THREE, TYPE II BARRICADES, DRUMS, OR VERTICAL BARRICADES AT 25' CENTERS.
- ⑤ THIS SIGN SHALL ONLY BE USED IF THE EXISTING SPEED LIMIT IS GREATER THAN 65 MPH.
- ⑥ WHEN SHOWN, PORTABLE CHANGEABLE MESSAGE SIGN SPECIAL SHALL HAVE EQUIVALENT FLASHING BEACONS AS REAL TIME TRAFFIC CONTROL SIGNING. COST INCLUDED IN PORTABLE CHANGEABLE MESSAGE SIGN SPECIAL.

LEGEND:

- ↓ ARROW BOARD
- ☐ PORTABLE CHANGEABLE MESSAGE SIGN SPECIAL (PCMS)
- ⊥ SIGN
- ⊙ REAL-TIME TRAFFIC CONTROL SIGNING
- ⊕ TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH MONODIRECTIONAL FLASHING LIGHT.
- ▨ TEMPORARY RUMBLE STRIPS (SPECIAL). SEE DETAIL & SPECIAL PROVISION
- ☑ SPEED DISPLAY TRAILER



TEMPORARY RUMBLE STRIP (SPECIAL)

GENERAL NOTE:

THIS STANDARD IS USED WHERE A LANE CLOSURE IS IN PLACE LONGER THAN ONE CONSECUTIVE WEEK OR INCLUDING A WEEKEND OR HOLIDAY AS DESCRIBED IN KEEPING ROADS OPEN TO TRAFFIC.

THE FIRST TWO SIGNS ARE STATIONARY. THE OTHER SIGNS, ARROWBOARDS AND MESSAGE BOARDS SHALL BE MOVED AS NECESSARY TO MAINTAIN THE REQUIRED DISTANCE FROM THE START OF THE LANE CLOSURE TAPER(S).

SEE SPECIAL PROVISIONS FOR SMART TRAFFIC MONITORING SYSTEM, PORTABLE CHANGEABLE MESSAGE SIGN SPECIAL AND CONTROL OF WORK.

THIS DETAIL APPLIES TO BOTH NB AND SB APPROACHES TO THE WORK ZONE.

WHEN THE RIGHT LANE IS CLOSED, RIGHT LANE CLOSED SIGNS SHALL BE SUBSTITUTED FOR LEFT LANE CLOSED SIGNS.

WHEN EXISTING SIGNS, POLES, AND OTHER ITEMS CONFLICT WITH LOCATING THE EQUIPMENT SHOWN, THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER TO DECONFLICT EQUIPMENT PLACEMENT.

ALL ORANGE SIGN SHEETING SHALL BE FLOURESCENT ORANGE MATERIAL.

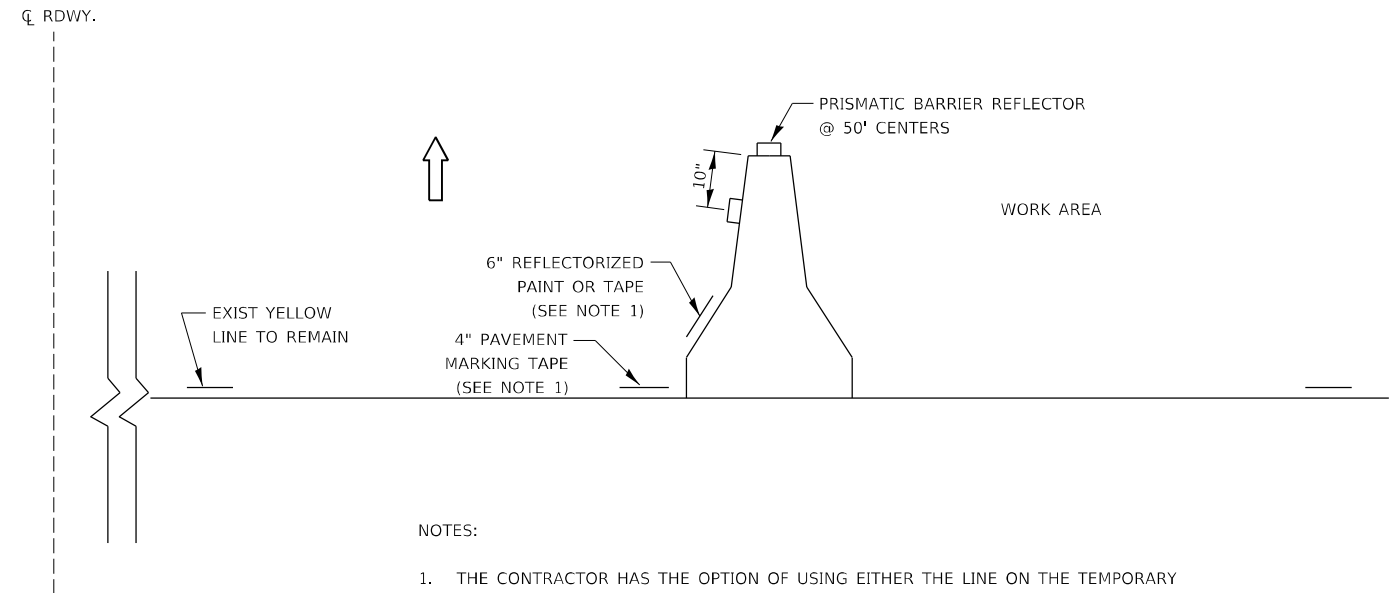
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PLOT DATE = 2/2/2023	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

I-80 SMART ZONE TRAFFIC CONTROL ADVANCED SIGNING & TRAFFIC CONTROL DEVICES			
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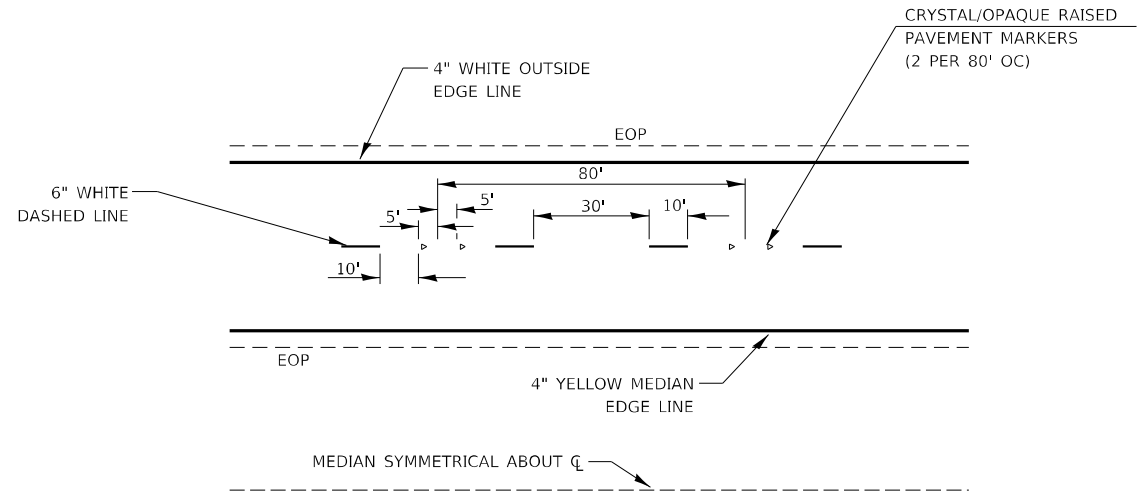
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	[(50-4)BR]BR	LASALLE	45	39
CONTRACT NO. 66M33				
ILLINOIS FED. AID PROJECT				



NOTES:

1. THE CONTRACTOR HAS THE OPTION OF USING EITHER THE LINE ON THE TEMPORARY CONCRETE BARRIER OR ON THE PAVEMENT.
2. THE COLOR OF THE REFLECTORS AND PAVEMENT/BARRIER MARKING LINE WILL VARY WITH STAGING AND SHALL MATCH THE EXISTING LINE IN THE WORK AREA.
3. THE COST OF THE REFLECTORS AND THE PAVEMENT/BARRIER MARKING LINE IS INCLUDED IN THE COST OF THE TEMPORARY CONCRETE BARRIER.

**TRAFFIC CONTROL DETAIL
FOR TEMPORARY CONCRETE BARRIER**



TYPICAL PAVEMENT MARKINGS

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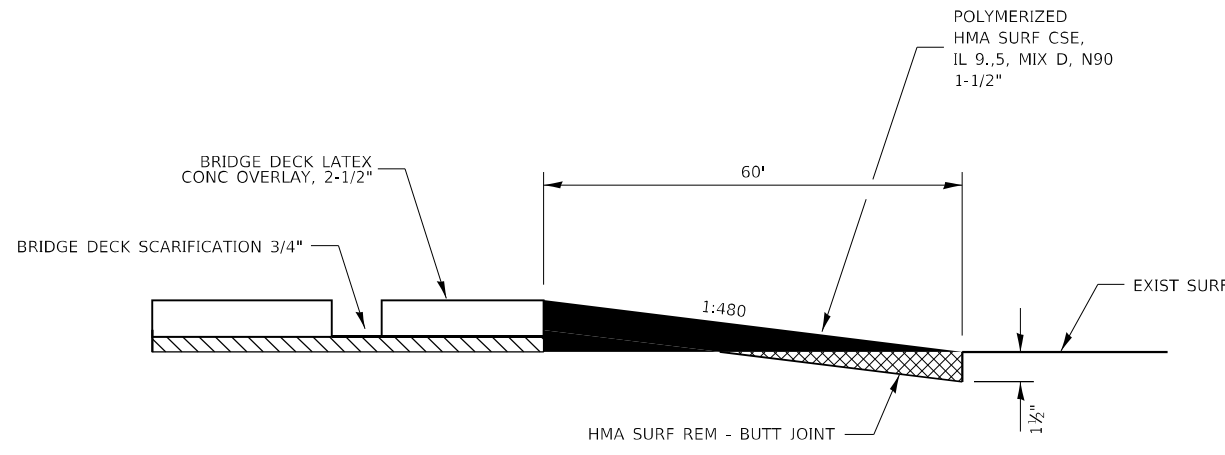
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

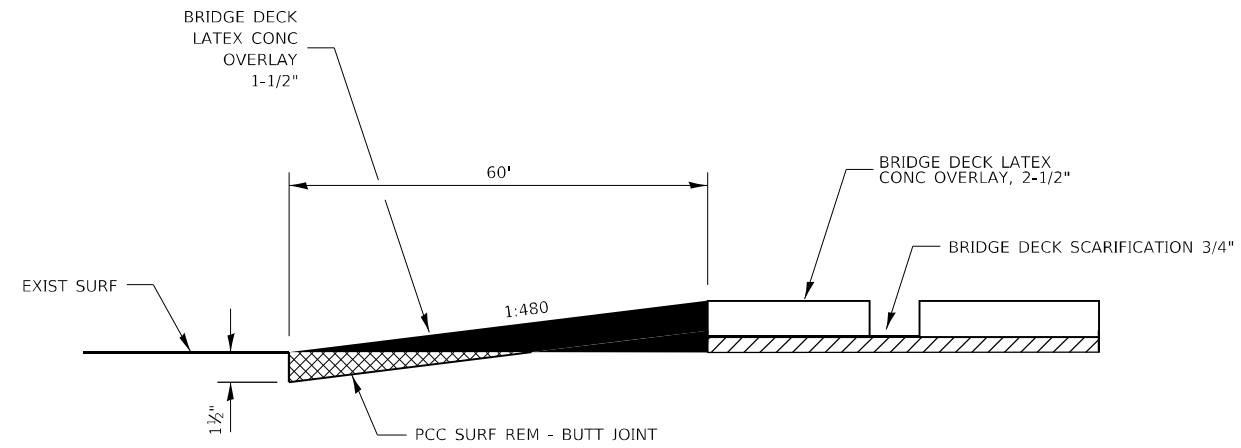
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	STA.	TO	STA.

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80	[(50-4)BR]BR	LASALLE	45	40
CONTRACT NO. 66M33				
ILLINOIS FED. AID PROJECT				

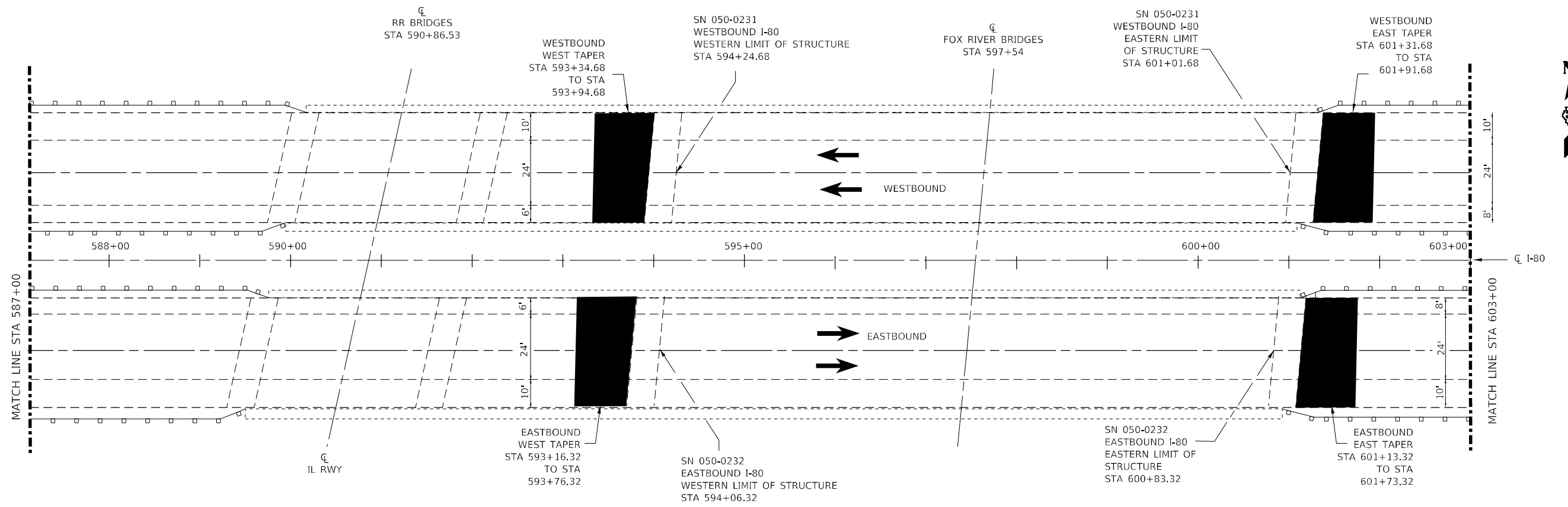
TAPER DETAILS EAST END OF STRUCTURES



TAPER DETAILS WEST END OF STRUCTURES



TAPER PLAN VIEW



PROPOSED WORK AREA
TAPER AREA STARTS AT EACH
END OF THE BRIDGE APPROACHES
AND HAS LENGTHS OF 60 FT

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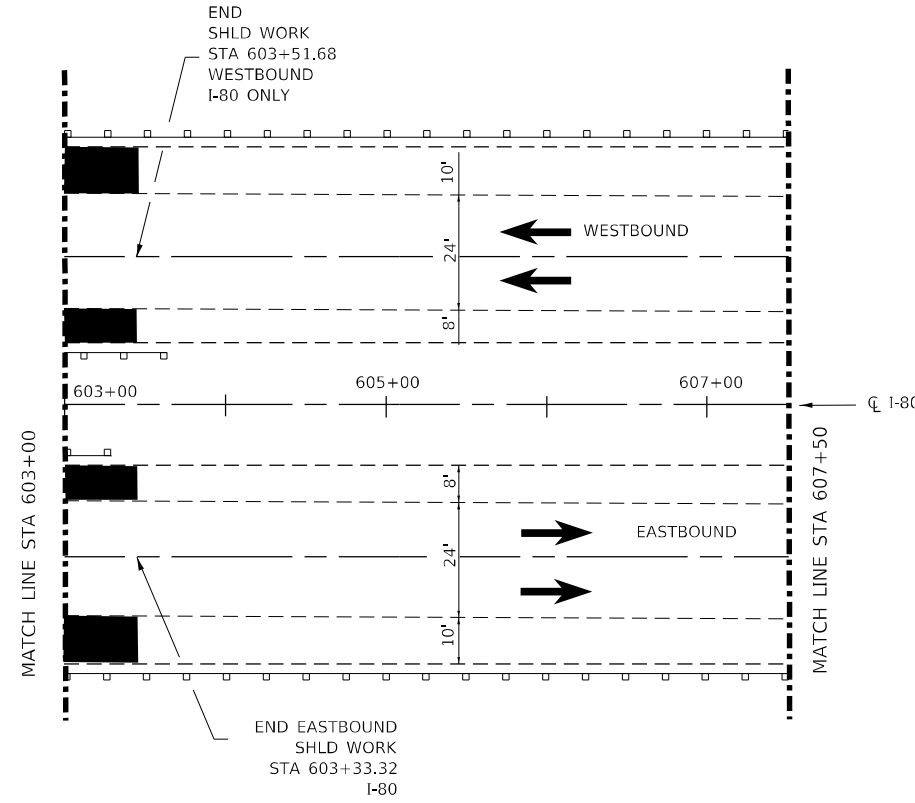
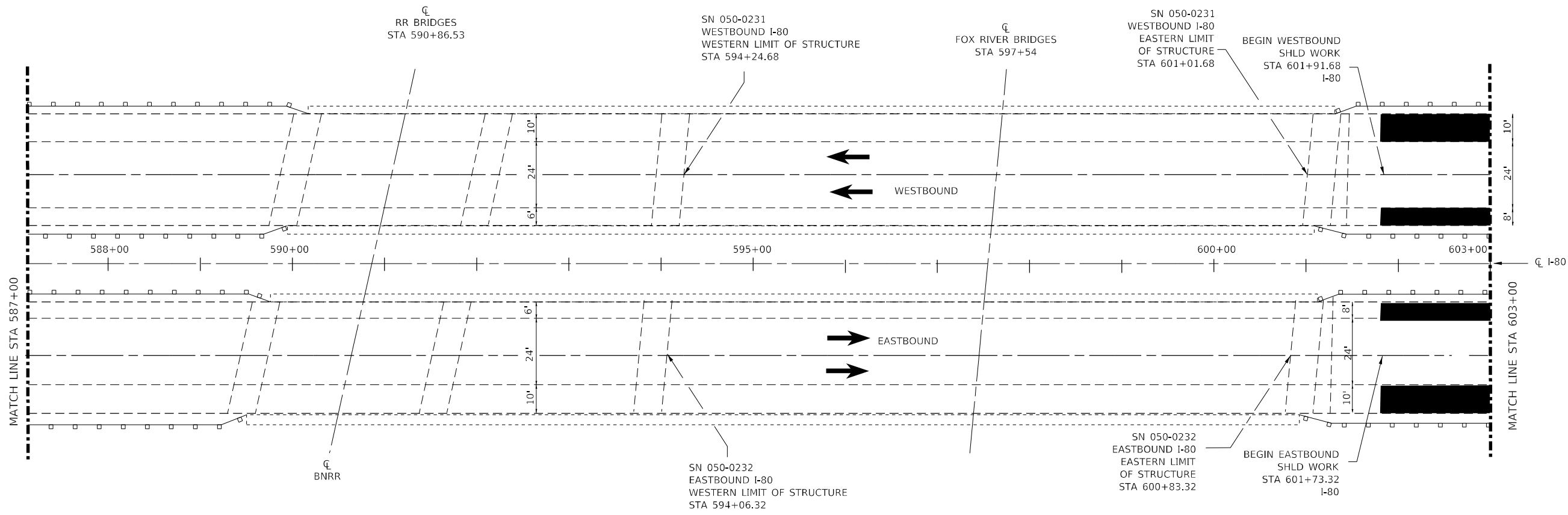
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PLOT DATE = 3/2/2023	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TAPER DETAILS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	[(50-4)BR]BR	LASALLE	45	41
CONTRACT NO. 66M33				
ILLINOIS FED. AID PROJECT				



PROPOSED WORK AREA
 6" HMA SURF REM
 4" HMA BINDER CSE, IL 19.0 N70
 2" HMA SURF CSE, IL 9.5, MIX D, N70

FILE NAME =	USER NAME = Cassandra.Nolesco	DESIGNED -	REVISED -
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PRE-STAGING DETAILS
FOR INFORMATION ONLY**

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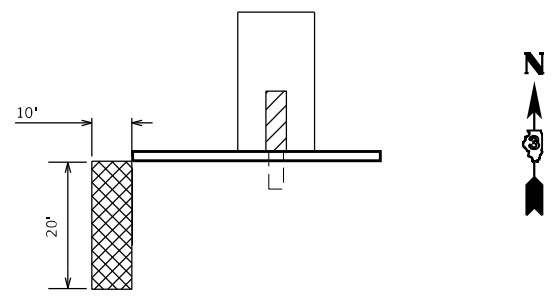
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CONTRACT NO. 66M33				
ILLINOIS		FED. AID PROJECT		

SCOPE OF WORK

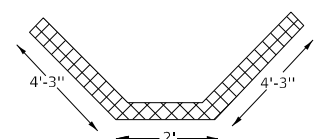
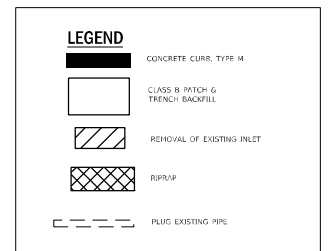
PLUG PIPES AT EXISTING SHOULDER INLETS WITH CLSM.
 REMOVE FRAME AND GRATE AT SHOULDER DRAINS.
 REPLACE DISTURBED CURB.
 PATCH REMOVAL AREA WITH CLASS B PATCH.
 CREATE RIPRAP CHUTES AT THE END OF THE ADJACENT CURB.
 NOTE: EASTBOUND DRIVING LANE WILL NOT NEED A CHUTE,
 WATER WILL DRAIN INTO THE NEXT EASTERN INLET

NOTES

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 OR ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN SCOPE OF THE WORK. HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED BASED AT THE UNIT PRICE BID FOR THE WORK.

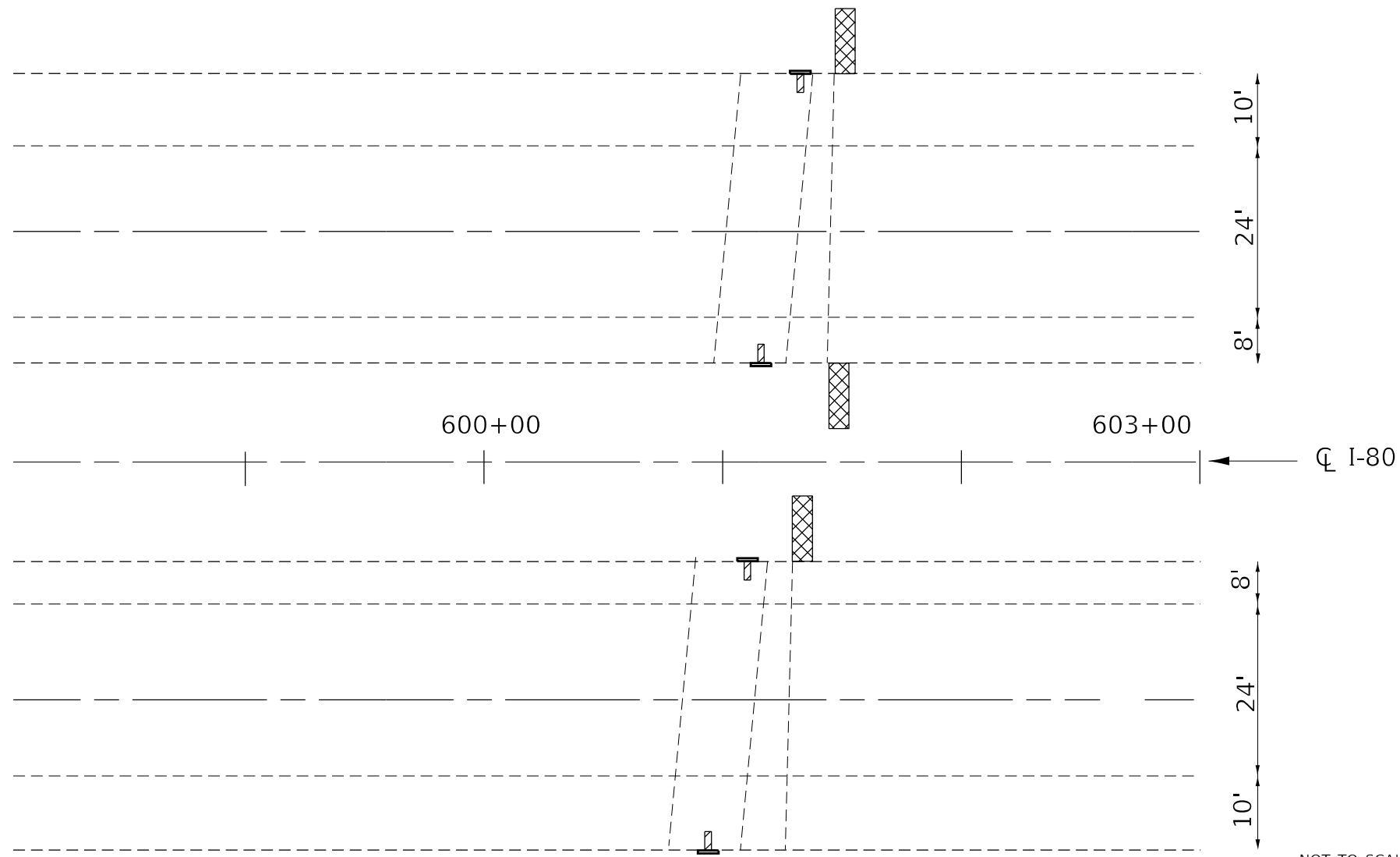


PLAN VIEW OF SHOULDER DRAINS



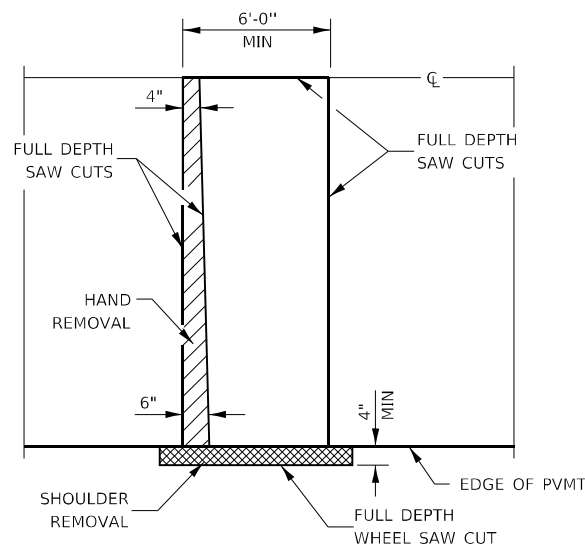
SECTION B-B

NOTE:
ALL RIPRAP CHUTES WILL HAVE THE SAME CROSSSECTION



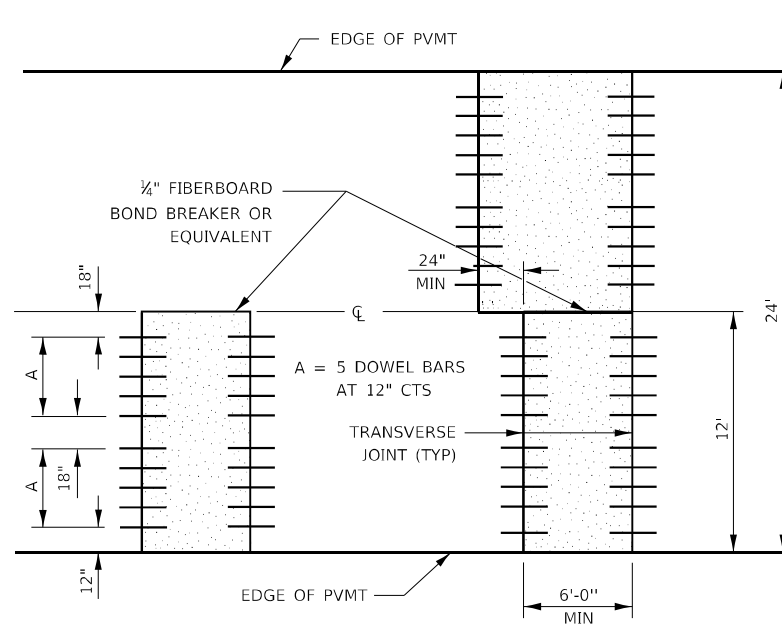
NOT TO SCALE
USE DIMENSIONS

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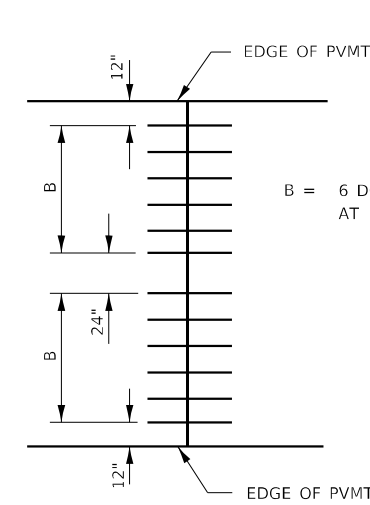


PAVEMENT SAWING DETAIL

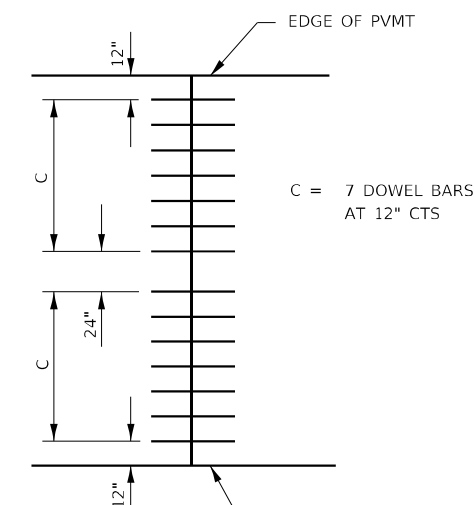
(HMA SHOULDER)



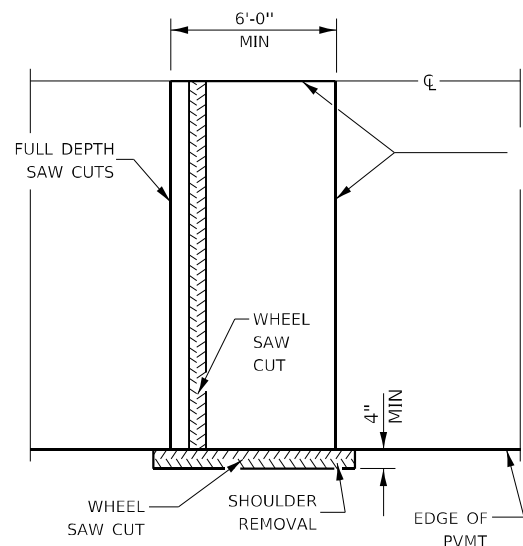
12' WIDE LANES



14' WIDE RAMP

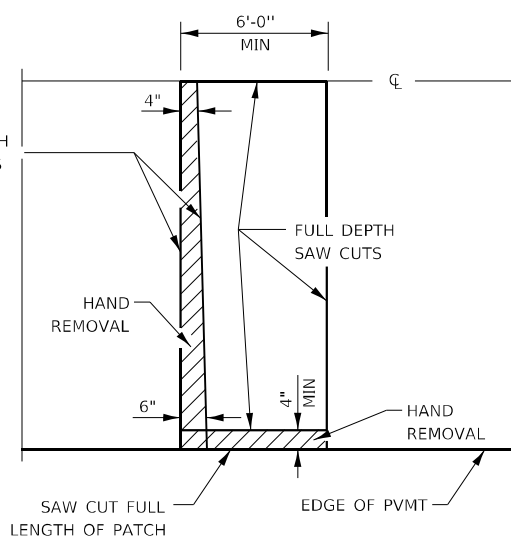


16' WIDE RAMP



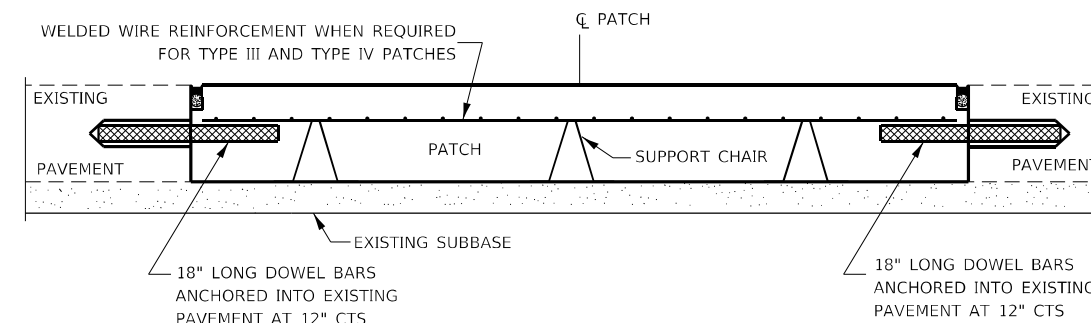
ALTERNATE SAWING DETAIL

(HMA SHOULDER)

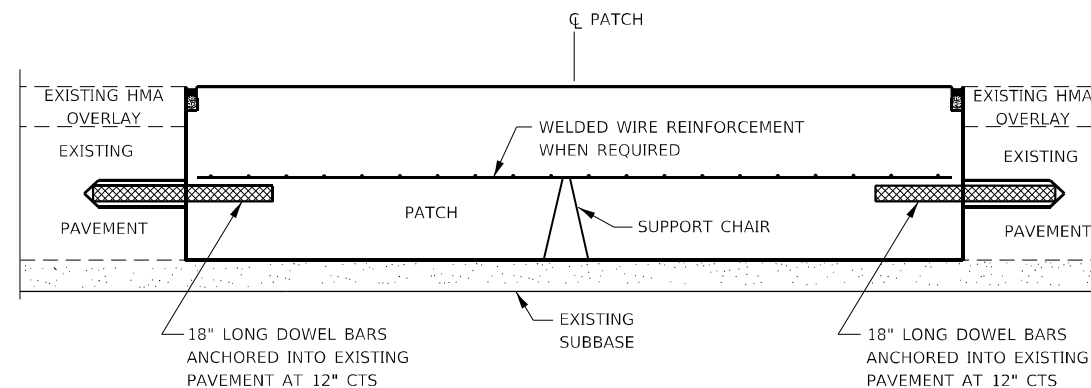


PAVEMENT SAWING DETAIL

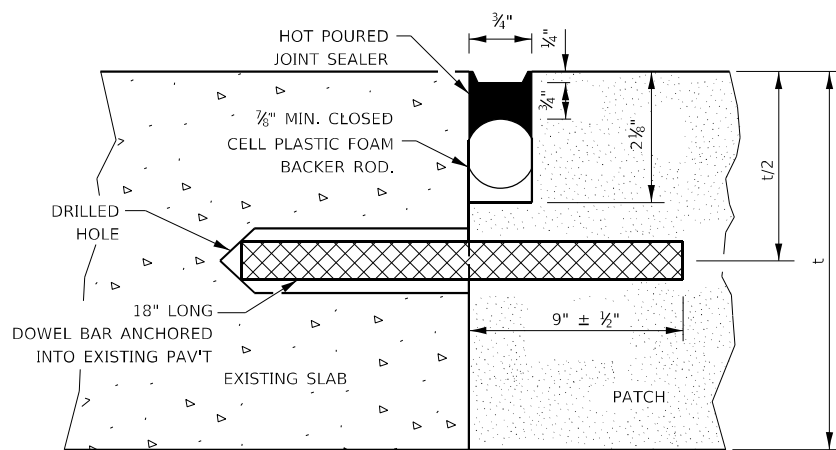
(PCC SHOULDER)



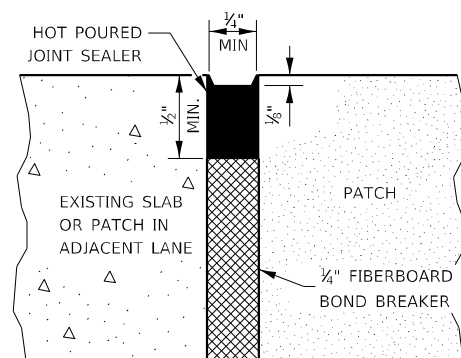
PATCHING WITHOUT HMA OVERLAY



PATCHING WITH HMA OVERLAY



TRANSVERSE JOINT



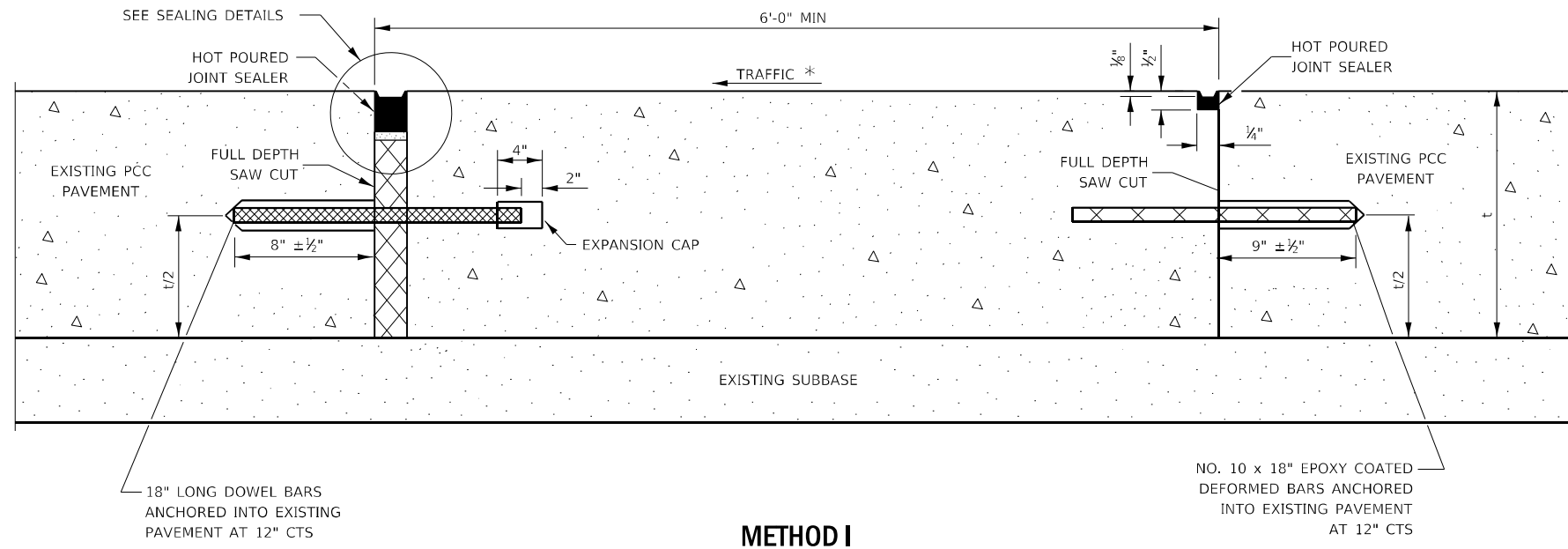
CENTERLINE JOINT

DOWEL BAR TABLE		
PAVEMENT THICKNESS	DOWEL BAR DIAMETER	HOLE DIAMETER
8" OR GREATER	1 1/2"	1 5/8"
7" THRU 7.99"	1 1/4"	1 3/8"
LESS THAN 7"	1"	1 1/8"

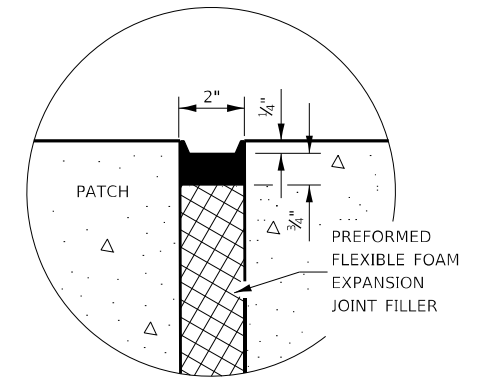
GENERAL NOTES

THE TRANSVERSE JOINTS FOR CLASS B PATCHES SHALL ALIGN WITH JOINTS OR CRACKS IN THE ADJACENT LANE WHENEVER POSSIBLE.

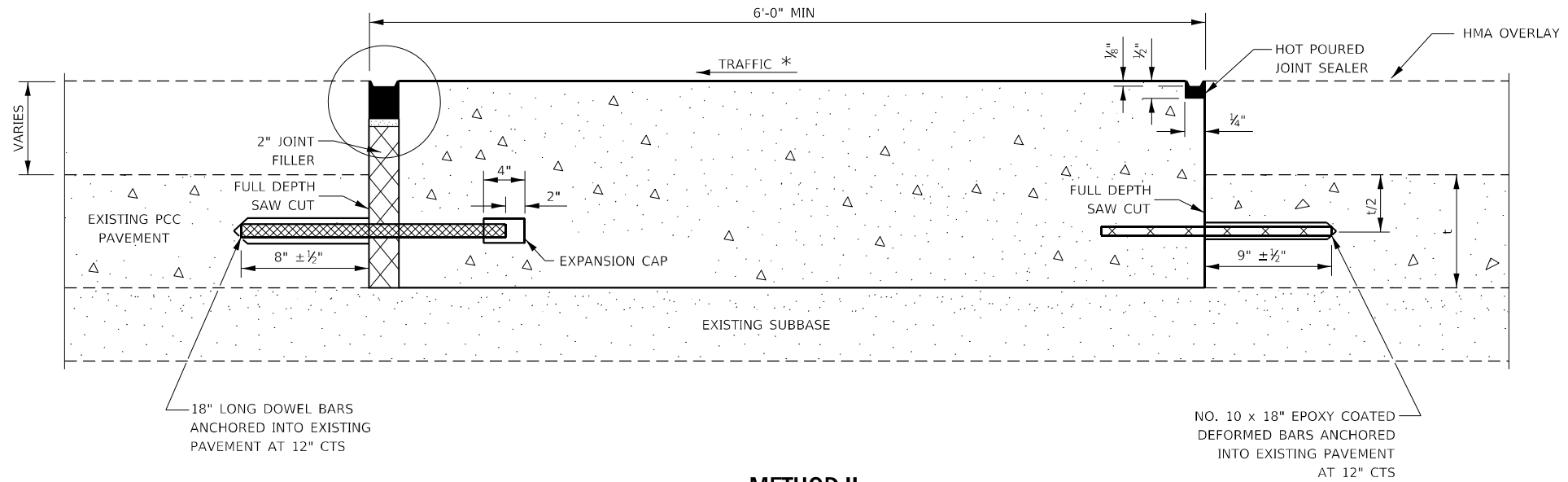
SEE STANDARD 420701 FOR DETAILS OF PAVEMENT WELDED WIRE REINFORCEMENT.



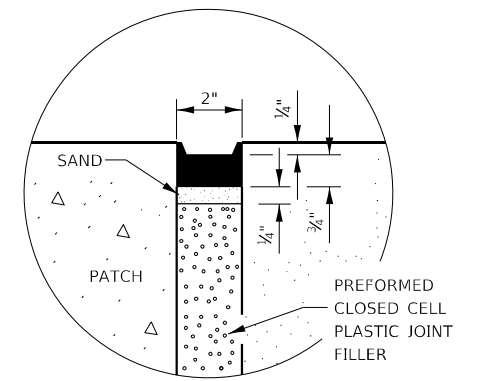
METHOD I
(WITHOUT HMA OVERLAY)



SEALING DETAIL



METHOD II
(WITH HMA OVERLAY)



SEALING DETAIL

NOTE

* WHEN RE-ESTABLISHING A TRANSVERSE EXPANSION JOINT ON A TWO-WAY ROAD, REVERSE THE ORIENTATION OF THE DOWEL BARS WITH RESPECT TO TRAFFIC FOR ONE OF THE PATCHES SUCH THAT THE JOINT WILL BE CONTINUOUS ACROSS BOTH LANES.

FILE NAME =	USER NAME = Cassandra.Nolesco	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CLASS B PATCHING DETAILS			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\idol-pw\berkeley.com\PWIDOT\Documents\IDOT Office\District 3\Projects\0366M33\CADData\0366M33-shd-detailed.dgn	DRAWN -	REVISED -	80					((50-4)BR BR	LASALLE	45	45	
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -	CONTRACT NO. 66M33									
Default	DATE -	REVISED -	SCALE:		SHEET	OF	SHEETS	STA.	TO	STA.	ILLINOIS	FED. AID PROJECT