

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
88	(195-3B-4)BDR	WHITESIDE	34*	1
CONTRACT NO. 64P94				
ILLINOIS FED. AID PROJECT NO. SVWJ(636)				

* 34 + 1 = 35 TOTAL SHEETS
D-92-035-21

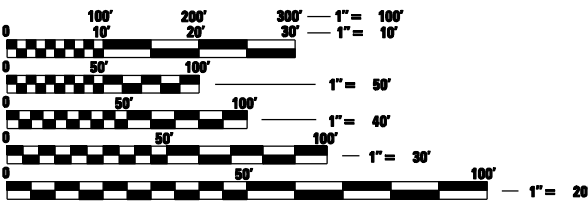
FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROPOSED
HIGHWAY PLANS

FA| ROUTE 88 (IL-88)
SECTION (195-3B-4)BDR
PROJECT NHPP-SVWJ(636)
BRIDGE REHABILITATION &
APPROACH ROADWAY RESURFACING
WHITESIDE COUNTY

C-92-037-21

BEGIN IMPROVEMENT
STA 2451+87
END IMPROVEMENT
STA 2453+52
BRIDGE REHABILITATION
SN 098-0084 & 098-0085
CENTER STA 2453+52

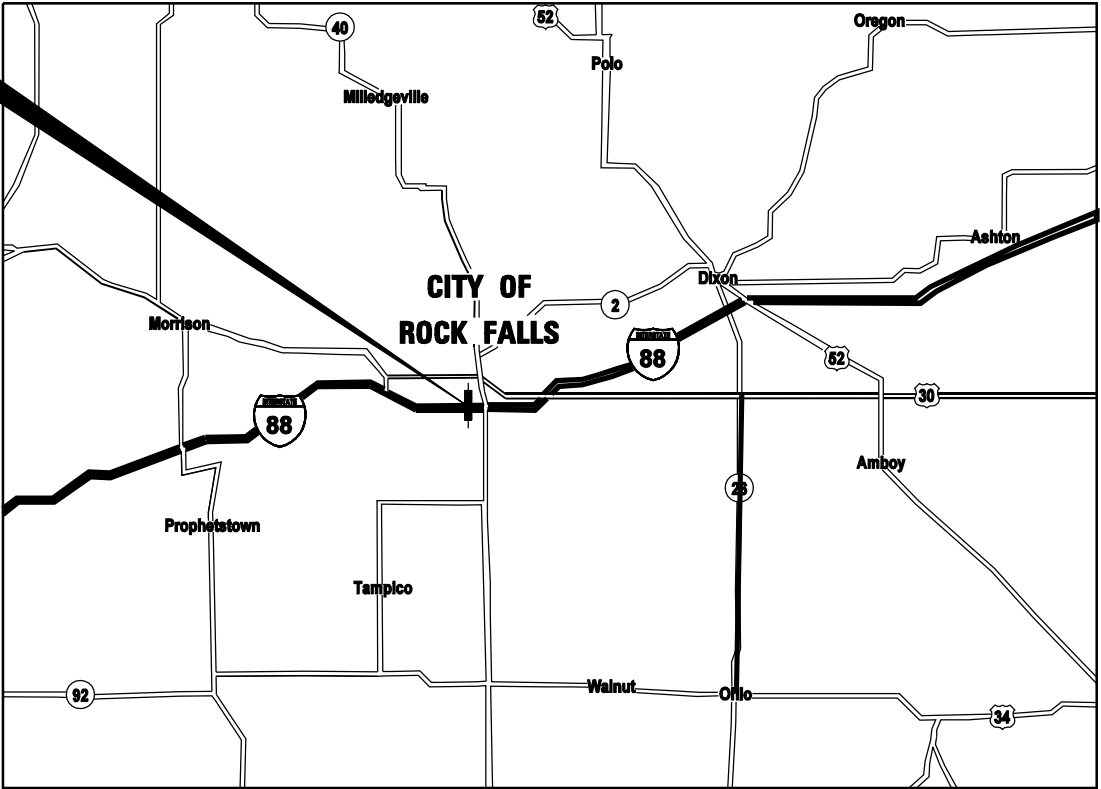


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD
ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT
CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS
ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROJECT ENGINEER OLUFEMI OLADEINDE, P.E., S.E. (312) 551-9780
PROJECT MANAGER MAHMOUD ETEMADI, P.E. (815) 284-5359

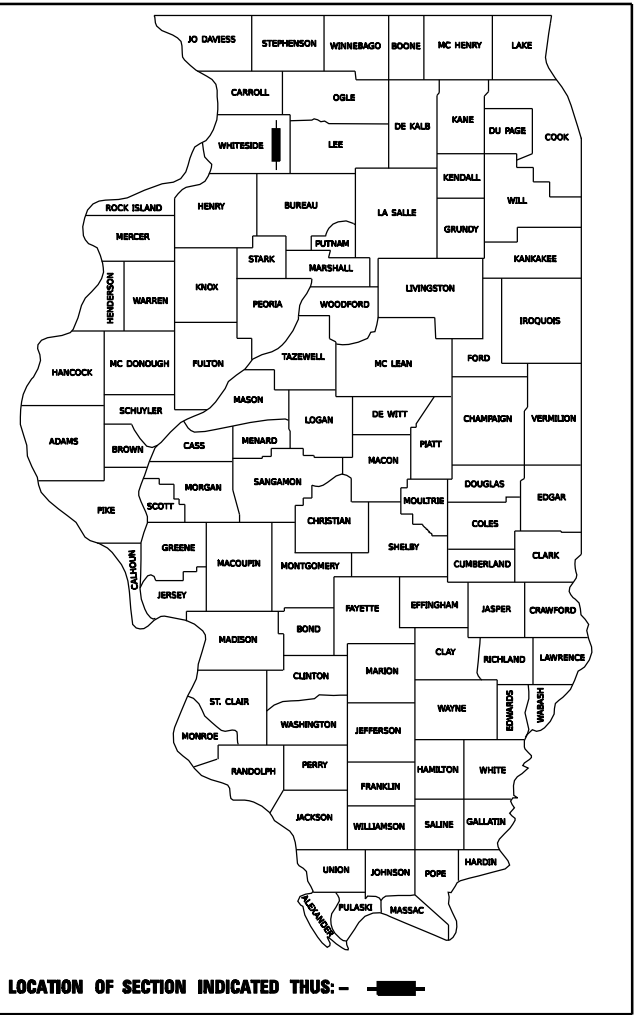
CONTRACT NO. 64P94



LOCATION MAP

SCALE: 0 1000' 2000' 1" = 2000'

Signed: *Olufemi A. Oladeinde* 03-18-2021
OLUFEMI A. OLADEINDE
LICENSE EXPIRES 11-30-2021



FUNCTIONAL CLASSIFICATION
INTERSTATE (CLASS I)
AADT = 8800 (2040)
P.V. = 68% EST. TRUCK = 32%
MONTMORENCY TOWNSHIP

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED March 23, 2021
Mahmoud Etemadi
REGIONAL ENGINEER

May 7, 2021 *Saeed A. Elk*
ENGINEER OF DESIGN AND ENVIRONMENT

May 7, 2021 *James J. Gu*
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

INDEX OF SHEETS

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22-34A	BRIDGE PLANS

GENERAL NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING MATERIALS.

2. IN ADDITION TO THE REQUIREMENTS OF ARTICLE 107.16, THE CONTRACTOR SHALL PROTECT THE SURFACE OF ALL BRIDGE DECKS AND BRIDGE APPROACH PAVEMENTS IN A MANNER SATISFACTORY TO THE ENGINEER BEFORE ANY EQUIPMENT IS ALLOWED TO CROSS THE STRUCTURE. PROTECTION SHALL BE PROVIDED FOR ALL EQUIPMENT, AS DEFINED IN ARTICLE 101.17 IF TRACK MOUNTED OR WHEELED.

3. BITUMINOUS TACK COAT SHALL BE PLACED IN ACCORDANCE WITH SECTION 406 OF THE STANDARD SPECIFICATIONS. THE COST OF THE TACK COAT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER TON FOR BINDER COURSE OF THE TYPE SPECIFIED.

4. THE AREA TO BE TACKED SHALL BE LIMITED TO THAT WHICH CAN BE COVERED WITH HMA ON THE NEXT DAY'S PRODUCTION, BUT NO MORE THAN FIVE DAYS IN ADVANCE OF THE PLACEMENT OF THE HMA, UNLESS APPROVED BY THE ENGINEER.

5. BEFORE STARTING ANY WORK, THE CONTRACTOR SHALL CALL "JULIE" AT 800-892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS FACILITIES. 48 HOUR NOTIFICATION IS REQUIRED.

6. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH THE UTILITY COMPANIES, AND THE CITY OF ROCK FALLS.

7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING UTILITY PROPERTY DURING CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.39 OF THE STANDARD SPECIFICATIONS. A MINIMUM OF 48 HOURS ADVANCE NOTICE IS REQUIRED FOR NON-EMERGENCY WORK. THE JULIE NUMBER IS 800-892-0123.
8. IDOT IS NOT A MEMBER OF JULIE. IF YOU ARE NEAR ANY OVERHEAD LIGHTING, INTERSECTION LIGHTING OR TRAFFIC SIGNALS, CONTACT THE IDOT TRAFFIC OFFICE AT 815/284-5469 AT LEAST 48 HOURS PRIOR TO WORK.
9. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE MUNICIPALITY TO DETERMINE APPROVED METHODS OF UTILITY STRUCTURE ADJUSTMENT. UTILITY STRUCTURES MAY INCLUDE, BUT ARE NOT LIMITED TO, MANHOLES, WATER VALVES, HANDHOLES, ETC. ALL MATERIALS AND WORK NECESSARY TO COMPLETE ADJUSTMENTS PER MUNICIPALITY REQUIREMENTS SHALL BE CONSIDERED INCLUDED IN THE COST OF THE ASSOCIATED ADJUSTMENT PAY ITEM.
10. BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCES, ALL EXISTING PAVEMENT MARKING LINES AND RAISED REFLECTIVE PAVEMENT MARKERS IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL STRIPING SHALL BE AS DIRECTED BY THE ENGINEER.
11. ALL DAMAGE TO EXISTING PAVEMENT MARKING OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT THE CONTRACTORS EXPENSE. NO ADDITIONAL COST TO THE DEPARTMENT.
12. PAVEMENT MARKING SHALL BE DONE ACCORDING TO STANDARD 780001, EXCEPT THAT: CENTERLINE SKIP DASH PAVEMENT MARKING ON MULTI-LANE DIVIDED, MULTI-LANE UNDIVIDED, AND ONE-WAY ROADWAY SHALL BE ACCORDING TO DISTRICT STANDARD 41.1.
13. FRAMES AND GRATES ADJUSTMENT OF PRIVATE UTILITIES WITHIN THE LIMITS OF THE IMPROVEMENTS SHALL BE DONE BY THEIR RESPECTIVE OWNERS AND ARE NOT PART OF THIS CONTRACT.
14. DRAINAGE ADJUSTMENT OR RECONSTRUCTION LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.

14. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
15. DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
16. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
17. THE FINAL TOP FOUR INCHES OF SOIL IN ANY RIGHT-OF-WAY AREA DISTURBED BY THE CONTRACTOR MUST BE CAPABLE OF SUPPORTING VEGETATION. THE SOIL MUST BE FROM A HORIZON (ZERO TO 2' DEEP) OF SOIL PROFILES OF LOCAL SOILS. THE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT PRICES BID AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
18. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL LOGS, SHRUBS, BUSHES, SAPLINGS, UNDERBRUSH OR DEBRIS ACCORDING TO SECTION 201 OF THE STANDARD SPECIFICATIONS AT LOCATIONS REQUIRING ACCESS TO THE SUBSTRUCTURE. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT THE COST SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
19. ALL BORROW/WASTE/USE SITES MUST BE APPROVED BY THE DEPARTMENT PRIOR TO REMOVING ANY MATERIAL FROM THE PROJECT OR INITIATING ANY EARTH MOVING ACTIVITIES, INCLUDING TEMPORARY STOCKPILING OUTSIDE THE LIMITS OF CONSTRUCTION.
20. WHEN RELOCATED TEMPORARY CONCRETE BARRIER IS SPECIFIED, THE WALL SHALL BE REMOVED, STORED AND TRANSPORTED TO AND FROM STORAGE, WHEN THE WALL IS NOT NEEDED FOR A TIME AS SHOWN ON THE STAGING PLANS, AND RELOCATED AND REINSTATED AT THE NEW LOCATION. THE REINSTALLATION REQUIREMENTS SHALL BE THE SAME AS THOSE FOR A NEW INSTALLATION. THIS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR RELOCATE TEMPORARY CONCRETE BARRIER.
21. RELOCATE TEMPORARY IMPACT ATTENUATORS SHALL INCLUDE STORAGE AND TRANSPORTATION TO AND FROM STORAGE, WHEN THE DEVICE IS NOT NEEDED FOR A TIME, AS SHOWN ON THE STAGING PLANS. THIS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER EACH FOR IMPACT ATTENUATORS, RELOCATE OF THE TYPE SPECIFIED.

HIGHWAY STANDARDS

000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
482011-03	HMA SHLD. STRIPS/SHLDS. WITH RESURFACING OR WIDENING AND RESURFACING PROJECTS
631031-17	TRAFFIC BARRIER, TYPE 6
642006-01	SHOULDER RUMBLE STRIPS, 8 INCH
701101-05	OFF-ROAD OPERATIONS, MULTILANE, 15' (4.5 M) TO 24" (600 MM) FROM PAVEMENT EDGE
701400-10	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-12	LANE CLOSURE, FREEWAY/EXPRESSWAY
701402-12	LANE CLOSURE, FREEWAY/EXPRESSWAY, WITH BARRIER
701411-09	LANE CLOSURE, MULTILANE, AT ENTRANCE, FOR SPEEDS ≥ 45 MPH
701426-09	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATION, FOR SPEEDS ≥ 45 MPH
701901-08	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
720011-01	METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
728001-01	TELESCOPING STEEL SIGN SUPPORT
729001-01	APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGN & MARKERS)
780001-05	TYPICAL PAVEMENT MARKINGS
781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS

DISTRICT STANDARDS

- 34.1 BOX CULVERT END SECTIONS (DIST STD 34.1)
- 39.1 TRAFFIC CONTROL TYPICAL WEAVE (DIST STD 39.1)
- 41.1 TYPICAL PAVEMENT MARKINGS (DIST STD 41.1)
- 44.1 PAINTING DETAILS (DIST STD 44.1)

UTILITY NOTES

NONE.

HMA MIXTURE REQUIREMENT TABLE		
LOCATION(S):	HMA MIXTURE REQUIREMENT TABLE	
MIXTURE USE(S):	HMA SURFACE COURSE	HMA BINDER COURSE
BINDER GRADE (PG):	SBS PG 70-22	SBS PG 70-22
DESIGN AIR VOIDS:	4.0% @ N90	4.0% @ N90
MIXTURE COMPOSITION:	IL-9.5	IL-9.5 FG
FRICTION AGGREGATE:	D	N/A
MIXTURE WEIGHT:	112.0 lb/sy/in	N/A
QUALITY MANAGEMENT PROGRAM:	QCQA	QCQA
SUBLOT SIZE:	N/A	N/A
NUMBER OF ROLLER PASSES	N/A	N/A

FILE NAME = #FILE#

 <div>ENGINEERING CORP. www.sdiengr.com</div>	USER NAME = #USER#	DESIGNED - BA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES AND HIGHWAY STANDARDS		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - SD	REVISED -				88	(195-3B-4)BDR	WHITESIDE	34	2
	PLOT SCALE = #SCALE#	CHECKED - OAO	REVISED -				CONTRACT NO. 64P94				
	PLOT DATE = #DATE#	DATE - 12-29-2020	REVISED -				ILLINOIS FED. AID PROJECT				
SCALE:		SHEET 2 OF 34 SHEETS		STA.		TO STA.					

FILE NAME = \$FILE\$

SUMMARY OF QUANTITIES				CONSTRUCTION CODE	
				BRIDGE	ROADWAY
				0047	0004
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	098-0084-85	URBAN
40602975	HOT-MIX ASPHALT BINDER COURSE, IL-9.5FG, N90	TON	178		178
40604064	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N90	TON	178		178
44000159	HOT-MIX ASPHALT SURFACE REMOVAL, 2½"	SO YD	2544		2544
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	7.9		7.9
50102400	CONCRETE REMOVAL	CU YD	13.7	13.7	
50300255	CONCRETE SUPERSTRUCTURE	CU YD	13.7	13.7	
50300300	PROTECTIVE COAT	SO YD	2176	2176	
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	1820	1820	
50800515	BAR SPLICERS	EACH	40	40	
52000110	PREFORMED JOINT STRIP SEAL	FOOT	294	294	
64200108	SHOULDER RUMBLE STRIPS, 8 INCH	FOOT	443		443
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	3		3
67100100	MOBILIZATION	L SUM	1		1
70100207	TRAFFIC CONTROL AND PROTECTION, STANDARD 701402	EACH	1		1
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	2		2
70100800	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	L SUM	1		1
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	27801		27801
70400100	TEMPORARY CONCRETE BARRIER	FOOT	2114		2114
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	2317		2317
70500630	TEMPORARY TRAFFIC BARRIER TERMINAL, TYPE 3	EACH	2		2



USER NAME = \$USER\$	DESIGNED - BA	REVISED -
	DRAWN - SD	REVISED -
PLOT SCALE = \$SCALE\$	CHECKED - OAO	REVISED -
PLOT DATE = \$DATE\$	DATE - 12-29-2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES		SUMMA	
SCALE:	SHEET 3 OF 34 SHEETS	STA.	TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
88	(195-3B-4)BDR	WHITESIDE	34	3
CONTRACT NO. 64P94				
ILLINOIS FED. AID PROJECT				

FILE NAME = #FILE#

SUMMARY OF QUANTITIES				CONSTRUCTION CODE	
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	90% FED 10% STATE	
				BRIDGE	ROADWAY
				0047	0004
				098-0084-85	URBAN
70600251	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	4		4
70600352	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE,NARROW), TEST LEVEL 3	EACH	4		4
* 78003120	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 5''	FOOT	344		344
* 78008210	POLYUREA PAVEMENT MARKING TYPE I - LINE 4''	FOOT	1827		1827
* 78008240	POLYUREA PAVEMENT MARKING TYPE I - LINE 8''	FOOT	1040		1040
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	16		16
78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	9175		9175
X0325748	ACRYLIC COATING	SQ YD	66.6	66.6	
X0325749	FIBER WRAP	SQ FT	739	739	
Z0043800	PRECAST PRESTRESSED CONCRETE I-BEAM REPAIR	SQ FT	370	370	
Z0006018	BRIDGE DECK LATEX CONCRETE OVERLAY, 3 INCHES	SQ YD	1862	1862	
Z0012146	BRIDGE DECK SCARIFICATION 2 3/4''	SQ YD	1862	1862	
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	697.2	697.2	
Z0012755	STRUCTURAL REPAIR OF CONCRETE (DEPTH GREATER THAN 5 INCHES)	SQ FT	255	255	
Z0033700	LONGITUDINAL JOINT SEALANT	FOOT	1300		1300
Z0053750	RETROFIT CONCRETE PARAPET	FOOT	1015		1015
58700300	CONCRETE SEALER	SQ FT	697.2	697.2	
X5030250	BRIDGE DECK GROOVING (LONGITUDINAL)	SQ YD	764	764	
Z0029090	DIAMOND GRINDING (BRIDGE SECTION)	SQ YD	1862	1862	
Z0073200	TEMPORARY SHORING AND CRIBBING	EACH	3	3	

*= SPECIALTY ITEM

 <div>SDI ENGINEERING CORP. www.sdiengr.com</div>	USER NAME = #USER#	DESIGNED - BA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = #SCALE#	DRAWN - SD	REVISED -				88	(195-3B-4)BDR	WHITESIDE	34	4
	PLOT DATE = #DATE#	CHECKED - OAO	REVISED -		SCALE:		CONTRACT NO. 64P94				
		DATE - 12-29-2020	REVISED -		SHEET 4 OF 34 SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT				

	PAVING MATERIALS				LONGITUDINAL JOINT SEALANT
	LOCATION	HOT-MIX ASPHALT BINDER COURSE, IL-9.5FG, N90	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N90	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"	
		TON	TON	SQ YD	
W.B. LANES	STA 2452+34 TO STA 2453+36 W. APPR. RDWAY	34.4	34.4	492	339
	STA 2454+44 TO 2455+45 E. APPR. RDWAY	37.1	37.1	531	330
E.B. LANES	STA 2451+51 TO 2452+60 W. APPR. RDWAY	48.2	48.2	690	306
	STA 2453+61 TO 2454+70 E. APPR. RDWAY	58.1	58.1	832	303
	TOTAL	178	178	2544	1300

AGGREGATE WEDGE SHOULDER, TYPE B	
LOCATION	TON
STA 2451+51.00 TO STA 2452+24.00 EB-W.APPR-RT	0.8
STA 2453+64.00 TO STA 2454+70.00 EB-E.APPR-RT	1.3
STA 2451+51.00 TO STA 2452+60.00 EB-W.APPR-LT	1.2
STA 2454+00.00 TO STA 2454+70.00 EB-E.APPR-LT	0.8
STA 2452+34.00 TO STA 2453+36.00 WB-W.APPR-LT	0.8
STA 2454+75.00 TO STA 2455+45.00 WB-E.PPR-LT	1.1
STA 2452+34.00 TO STA 2453+04.00 WB-W.APPR-RT	1.1
STA 2454+44.00 TO STA 2455+70.00 WB-E.APPR-RT	0.8
TOTAL	7.9

PAVEMENT MARKINGS						
LOCATION	PAVEMENT MARKING DESCRIPTION	POLYUREA PAVEMENT MARKING TYPE I- LINE 4"	PREFORMED PLASTIC PAVEMENT MARKING TYPE B- LINE 5"	POLYUREA PAVEMENT MARKING TYPE I- LINE 8"	SHOULDER RUMBLE STRIPS, 8 INCH	RAISED REFLECTIVE PAVEMENT MARKER
		FOOT	FOOT	FOOT	FOOT	EACH
E.B. BL - STA 2451+51.00 RT TO STA 2454+70.00 RT (RAMP)	SOLID WHITE	465				4
W.B. BL - STA 2452+34.00 LT TO STA 2455+45.00 LT	SOLID WHITE	450				
E.B. BL - STA 2451+51.00 LT TO STA 2454+70.00 LT	SOLID YELLOW	462				
W.B. BL - STA 2452+34.00 RT TO STA 2455+45.00 RT	SOLID YELLOW	450				
E.B. BL - STA 2451+51.00 BL TO STA 2455+70.00 BL	WHITE SKIP DASH		145			4
W.B. BL - STA 2452+34.00 BL TO STA 2455+45.00 BL	WHITE SKIP DASH		145			
W.B. BL - STA 2453+44.00 LT TO STA 2454+39.00 LT	WHITE SKIP DASH		54			3
E.B. BL - STA 2451+51.00 RT TO STA 2454+70.00 RT	SOLID WHITE			320		3
E.B. BL - STA 2451+51.00 RT TO STA 2454+70.00 RT (RAMP)	SOLID WHITE			320		2
W.B. BL - STA 2454+39.00 LT TO STA 2455+45.00 LT	SOLID WHITE			48		
W.B. BL - STA 2454+39.00 LT TO STA 2455+45.00 LT	SOLID WHITE			46		
E.B. BL - STA 2451+51.00 RT TO STA 2454+70.00 RT	CHEVRON			306		
E.B. BL - STA 2453+82.00 RT TO STA 2454+70.00 RT					88	
E.B. BL - STA 2451+51.00 TO STA 2452+57.00 LT & 2453+95.00 TO 2454+70.00 LT					181	
E.B. BL - STA 2452+34.00 TO STA 2453+08.00 RT & 2454+47.00 TO 2455+45.00 RT					174	
TOTAL		1827	344	1040	443	16

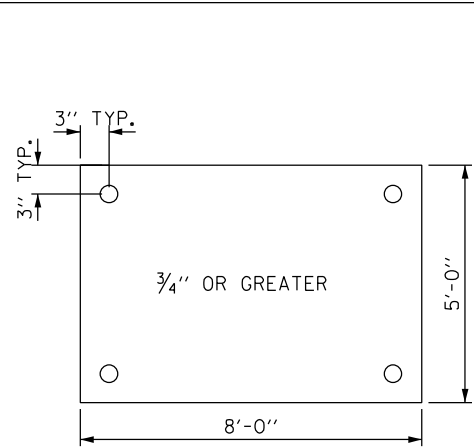
NOTE:
E.B. - EAST BOUND
W.B. - WEST BOUND
BL - BASELINE
RT - RIGHT
LT - LEFT
SEE SHTS. 11 TO 16 FOR E.B. & W.B. BASELINES (BL)

FILE NAME : \$FILEL\$

 ENGINEERING CORP. www.sdiengr.com	USER NAME : \$USER\$	DESIGNED - BA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCHEDULE OF QUANTITIES		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE : \$SCALE\$	DRAWN - SD	REVISED -				88	(195-3B-4)BDR	WHITESIDE	34	5
	PLOT DATE : \$DATE\$	CHECKED - OAO	REVISED -		SCALE:		CONTRACT NO. 64P94				
		DATE - 12-29-2020	REVISED -		SHEET 5 OF 34 SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT				

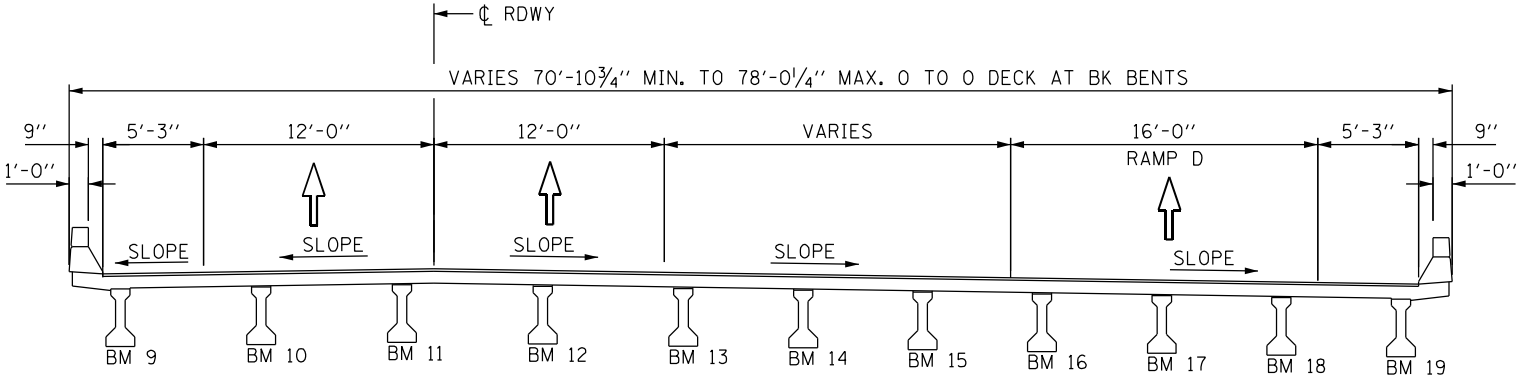
CONSTRUCTION STAGING GENERAL NOTES

1. ALL SIGNING MUST BE IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF THE STATE OF ILLINOIS “STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ADOPTED APRIL 1, 2016, THE DETAILS IN THESE PLANS. THE LATEST EDITION OF THE IDOT BUREAU OF DESIGN AND ENVIRONMENT HIGHWAY STANDARDS AND THE LATEST EDITION OF THE “MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES”.
2. NO TOPOGRAPHICAL SURVEY WAS COMPLETED AS PART OF THE ATTACHED PLANS. STATION OFFSETS AND DIMENSIONS OF TRAFFIC CONTROL MEASURES SHOWN ON THESE PLANS WILL NEED TO BE VERIFIED BY THE CONTRACTOR AND MAY BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.
3. THE CONTRACTOR MUST BE RESPONSIBLE FOR ENSURING THAT ALL BARRICADES, SIGNS, LIGHTS AND OTHER DEVICES INSTALLED ARE IN PLACE AND OPERATING 24 HOURS EACH DAY INCLUDING SUNDAYS AND HOLIDAYS DURING THE TIME THIS CONSTRUCTION IS IN EFFECT.
4. ALL EXISTING SIGNING THAT IS NOT APPLICABLE WHILE CONSTRUCTION IS IN EFFECT MUST BE COMPLETELY COVERED OR REMOVED BY THE CONTRACTOR.
5. THE SIZES OF ALL SIGNS NOT SPECIFIED IN THESE PLANS MUST BE AS REQUIRED BY THE ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
6. AS A MINIMUM, ALL AMBER FLASHING LIGHTS MUST MEET THE REQUIREMENTS FOR TYPE A - LOW INTENSITY FLASHING LIGHTS IN ARTICLE 702.04 OF THE STANDARD SPECIFICATIONS. ALL LIGHTS SHALL OPERATE DURING HOURS OF DARKNESS. ONLY LIGHTS THAT HAVE BEEN APPROVED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION SHALL BE USED.
7. SEE MAINTENANCE OF TRAFFIC PLAN FOR ADDITIONAL SIGNING.
8. TWO CHANGEABLE MESSAGE SIGNS SHALL BE PROVIDED AS DIRECTED BY THE ENGINEER TWO WEEKS PRIOR TO THE START OF CONSTRUCTION.
9. EMERGENCY VEHICLES MUST HAVE ACCESS TO THE AREA AT ALL TIMES.
10. THE CONTRACTOR MUST NOTIFY THE IDOT BUREAU OF TRAFFIC AS REQUIRED 72 HOURS IN ADVANCE OF BEGINNING WORK AT (815) 284-5474.
11. SIGN SPACING SHALL BE PER IDOT STANDARDS 701400, 701401, 701402, AND 701411. DEVIATIONS NEEDED TO ADJUST TO SITE CONDITIONS MUST BE APPROVED BY THE ENGINEER.
12. CONTRACTOR SHALL INSTALL SIGNAGE FOR BIKE PATH CLOSURE PRIOR TO ANY WORK COMMENCING AND SHALL MAINTAIN THE SIGNAGE THROUGH THE DURATION OF THE PROJECT. THIS WORK SHALL BE INCIDENTAL AND INCLUDED AS PART OF “TRAFFIC CONTROL AND PROTECTION, STANDARD 701402”.
13. CONTRACTOR SHALL MAKE EVERY EFFORT DURING CONSTRUCTION TO PROTECT BRIDGE SCUPPERS AND APPROACH DRAINS WITH STEEL PLATE OR APPROVED EQUIVALENT. SEE STEEL PLATE DETAIL BELOW. THIS WORK SHALL BE INCIDENTALAND INCLUDED AS PART OF “TRAFFIC CONTROL AND PROTECTION, STANDARD 701402”.

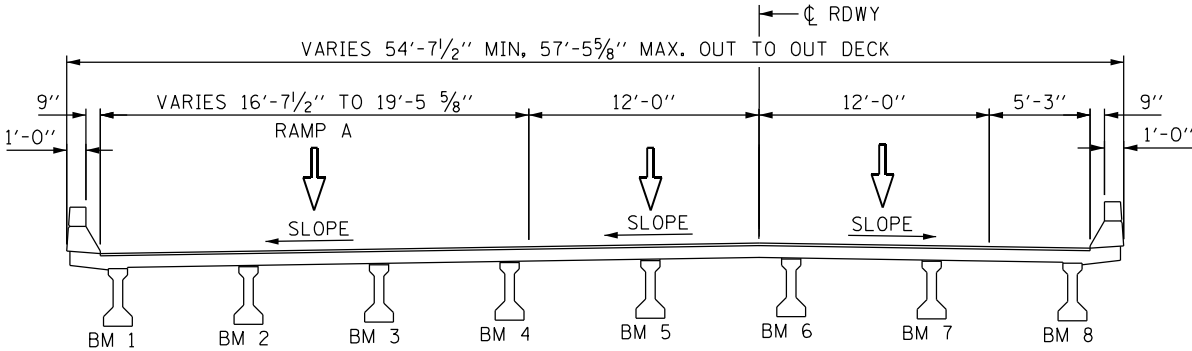


NOTES:

1. DURING MOT STAGE 1, THE APPROACH DRAIN AT THE CORNERS OF THE BRIDGES NEED TO BE PROTECTED WITH 3/4" (MIN.) STEEL PLATE ANCHORED WITH 4 ANCHOR BOLTS INTO THE PAVEMENT.
2. THE EDGES OF THE STEEL PLATE SHALL BE TAPERED WITH HMA TO AVOID BUMP FOR TRAFFIC.



EXISTING TYPICAL SECTION
BRIDGE EB (SN 098-0084)



EXISTING TYPICAL SECTION
BRIDGE WB (SN 098-0085)

FILE NAME = p:\notes\pwbentleycomatlas-pr-01\Documents\Projects\1072\1072 001-003 MO 5\10 CAD\3 Sheets\05 Staging-MOT\186-05 W05 General Notes-SHG.dgn

USER NAME = kkoehneke	DESIGNED - AS	REVISED -
DRAWN - AS	REVIS	ED -
PLOT SCALE = 5.0000 ' / in.	CHECKED - KEK	REVISED -
PLOT DATE = 3/4/2021	DATE - 01/08/2021	REVISED -

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
88	(195-3B-4)BDR	WHITESIDE	34	7
CONTRACT NO. 64P94				
ILLINOIS FED. AID PROJECT				

**MAX WIDTH
11'-6"
3 MILES
AHEAD**

① - ILLINOIS STANDARD W20-I103

MAX WIDTH
11'-6"
5½ MILES
AHEAD

④ - ILLINOIS STANDARD W20-I103

**MAX WIDTH
11'-6"
2½ MILES
AHEAD**

(2) - ILLINOIS STANDARD W20-I103

**MAX WIDTH
11'-6"
4½ MILES
AHEAD**

③ - ILLINOIS STANDARD W20-I103

1 1/4 MILES

⑤ - ILLINOIS STANDARD W20-I02
ILLINOIS STANDARD W16-3A

A diamond-shaped sign with a black border and the text "ROAD CONSTRUCTION AHEAD" in black capital letters.

3 MILES

⑥ - ILLINOIS STANDARD W20-I130(O)
ILLINOIS STANDARD W16-3A



4½ MILES

⑦ - ILLINOIS STANDARD W20-I130(O)
ILLINOIS STANDARD W16-3A



WEST



⑧ - ILLINOIS STANDARD W20-I130(0)
ILLINOIS STANDARD M3-4
ILLINOIS STANDARD M1-2.1

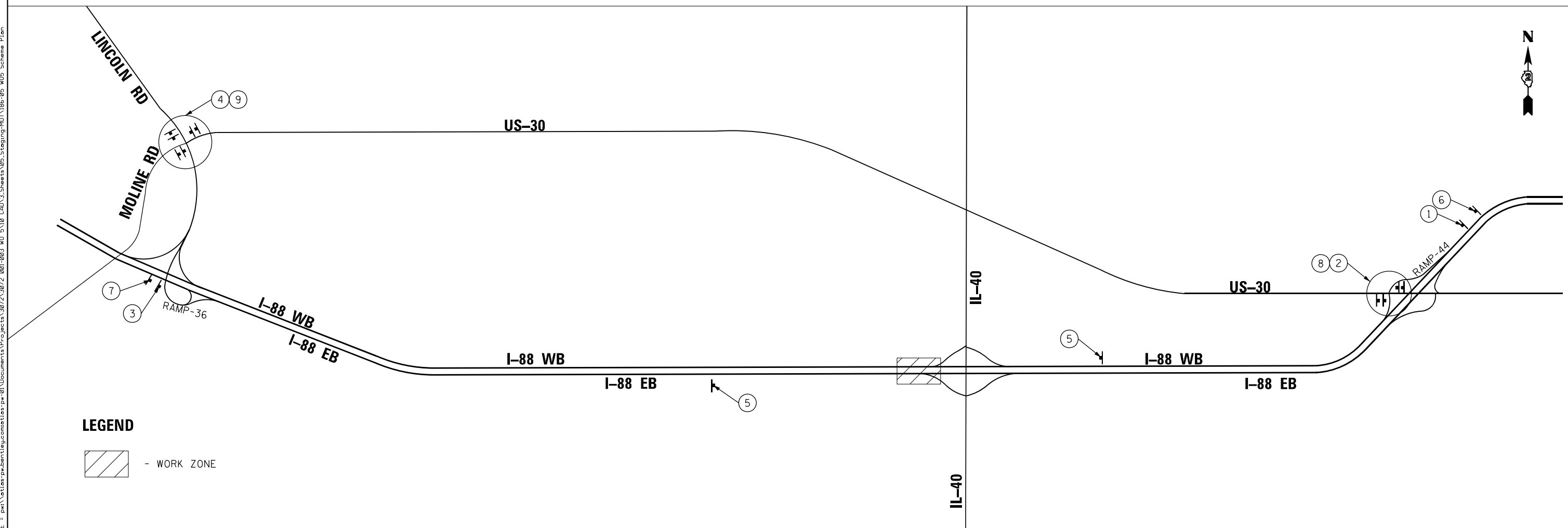
A diamond-shaped warning sign with a black border and the text "ROAD CONSTRUCTION AHEAD" in black capital letters on a white background.

EAST

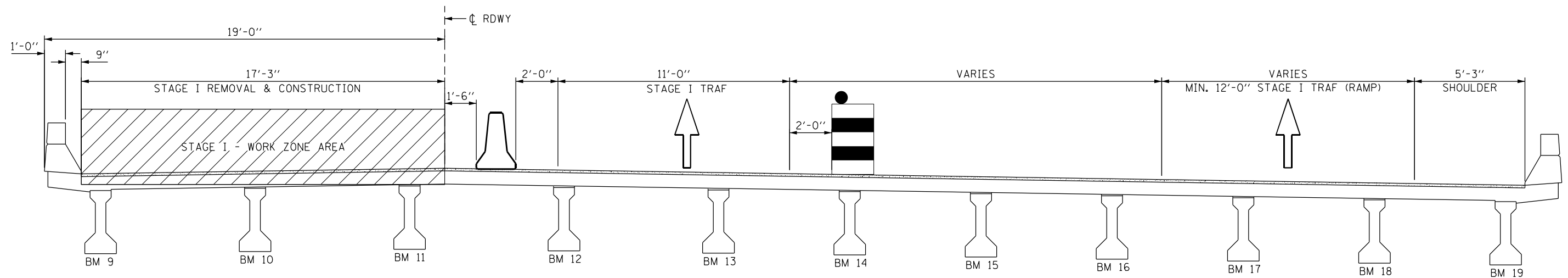


INTERSTATE
88

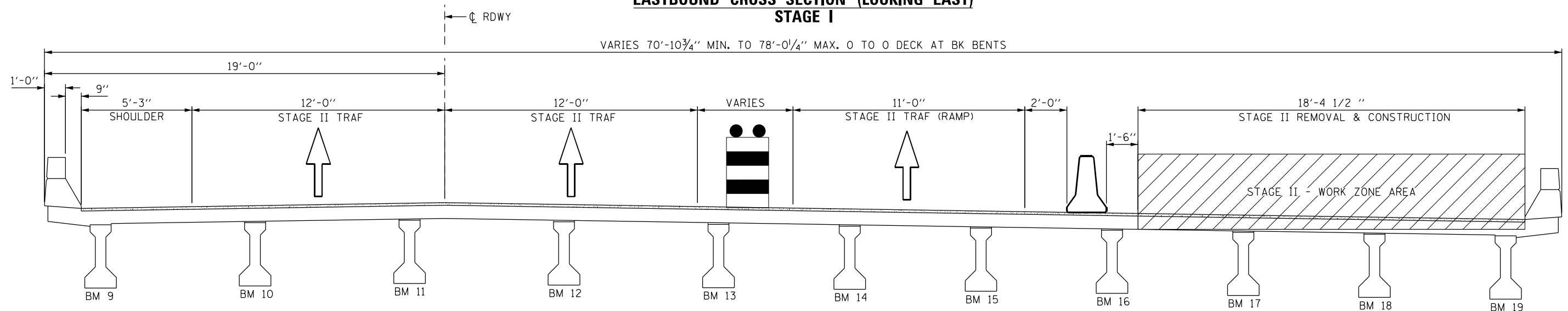
⑨ - ILLINOIS STANDARD W20-I130(0)
ILLINOIS STANDARD M3-2
ILLINOIS STANDARD M1-2.1



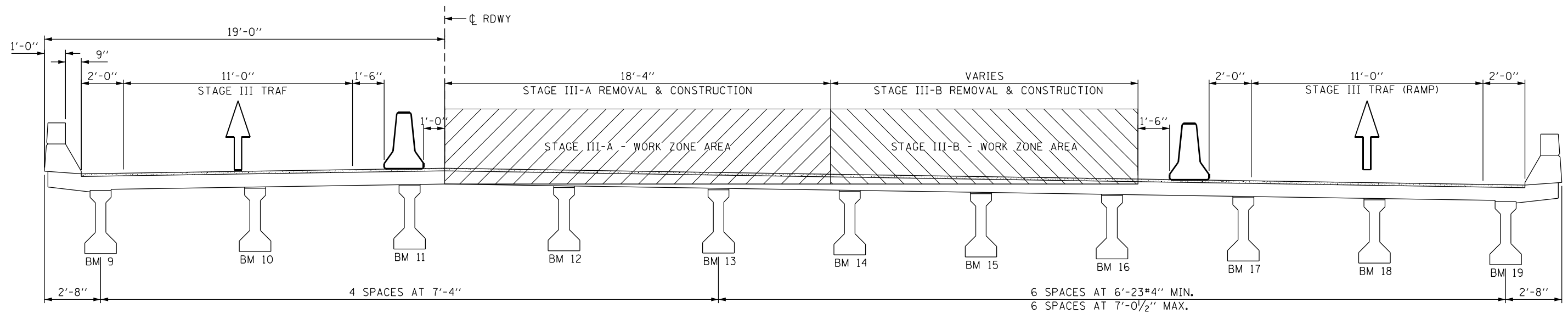
FILE NAME = p:\atlantis\atlantis\atlantis\01-003 MO 510 CAD\3 Sheets\05 Staging\05 W05 EB TypSection-SH7



**EASTBOUND CROSS SECTION (LOOKING EAST)
STAGE I**

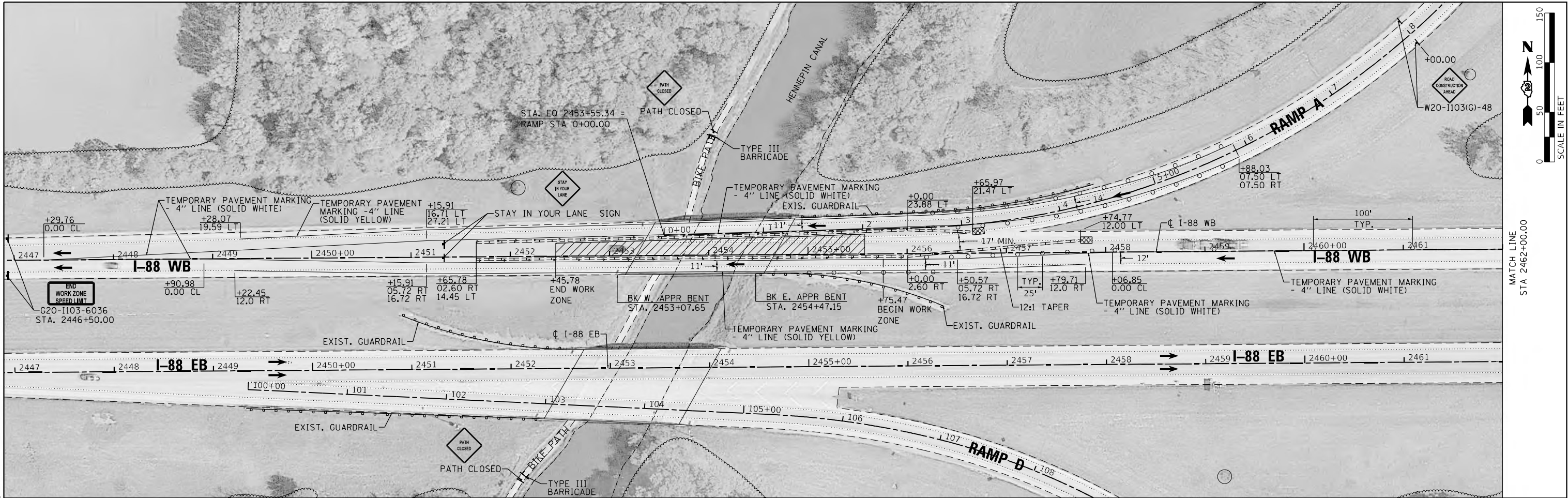


**EASTBOUND CROSS SECTION (LOOKING EAST)
STAGE II**

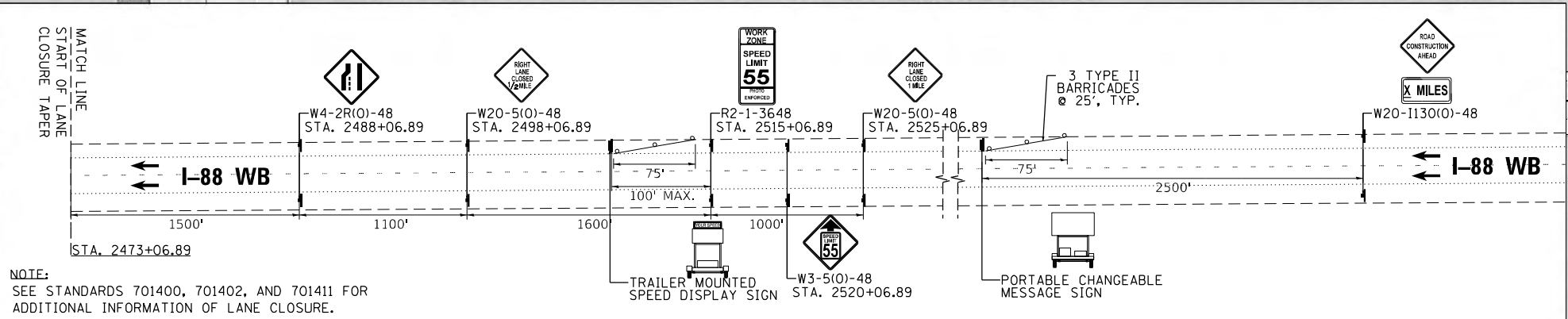
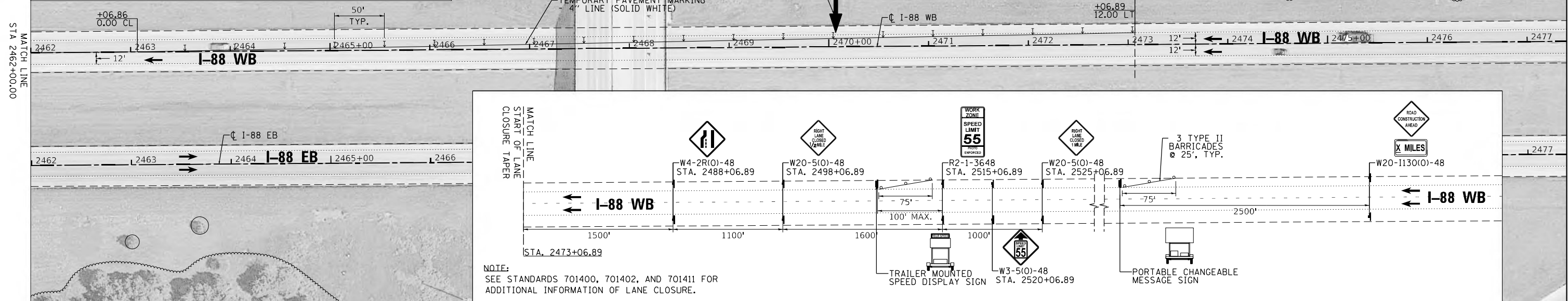
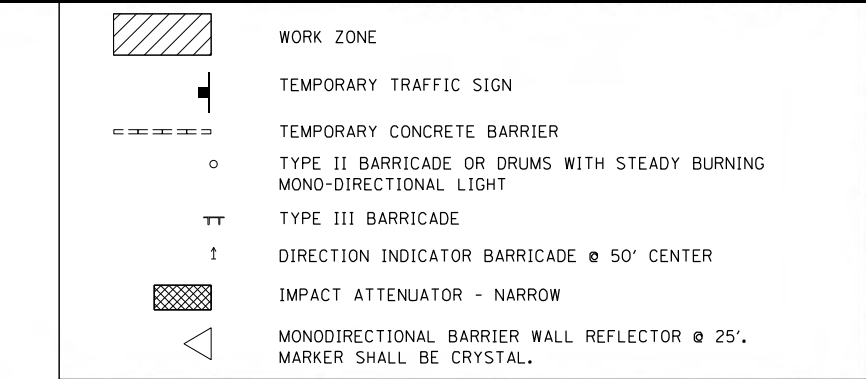
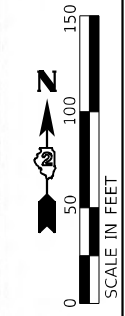
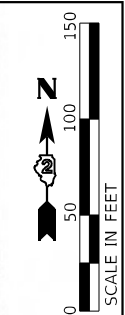


**EASTBOUND CROSS SECTION (LOOKING EAST)
STAGE III**

FILE NAME = p:\atlantis\pawbentleycomatlas\pr-01\Documents\Projects\3072\3072_001-003.WD 5\10 CAD\3_Sheets\05 Staging\MT1186-05 WD5 Stage2-SH13



MATCH LINE
STA 2462+00.00



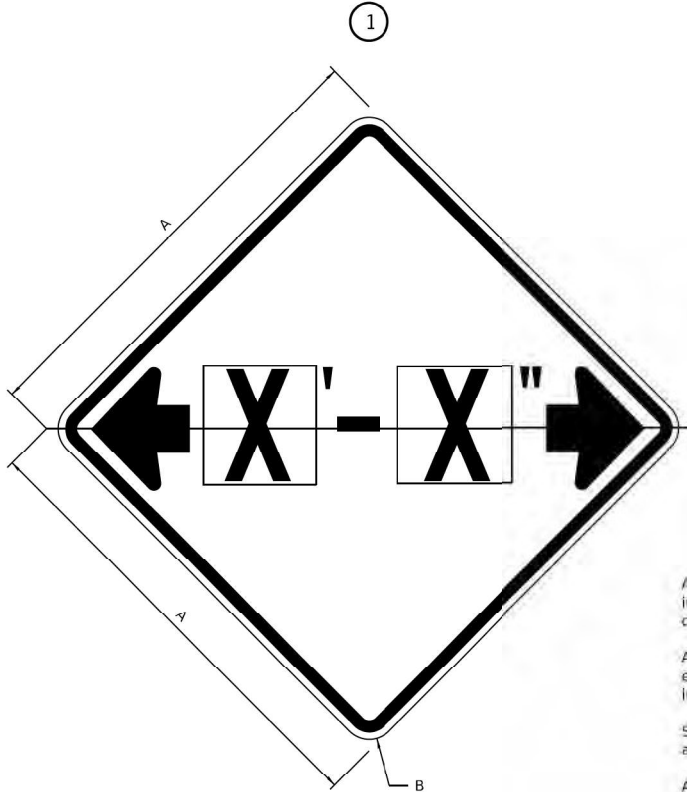
NOTE:
SEE STANDARDS 701400, 701402, AND 701411 FOR
ADDITIONAL INFORMATION OF LANE CLOSURE.

<div><div>AEG</div><div>ATLAS ENGINEERING GROUP, LTD.</div></div>	USER NAME = asherghs	DESIGNED - AS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAINTENANCE OF TRAFFIC I-88 – STAGE 2 SN 098-0085 (WB)			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN - AS	REVISED -					88	(195-3B-4)BDR	WHITESIDE	34	15	
	PLOT SCALE = 100.0000' / in.	CHECKED - KEK	REVISED -		SCALE:			SHEET 15 OF 34 SHEETS	STA.	TO STA.	CONTRACT NO. 64P94		
	PLOT DATE = 3/3/2021	DATE - 01/08/2021	REVISED -								ILLINOIS FED. AID PROJECT		

FILE NAME = p:\atlas\pawbentleycomatlas-pr-01\Documents\Projects\1072\1072-001-003.W0 5\10 CAD\3.Sheets\05.Staging-MOT\186-05 W05.D2 Standard.d34.12

WORK ZONE SIGN DETAILS

ILLINOIS STANDARD W12-I102



GENERAL NOTES

All work to furnish and install these signs shall be included in the cost of the specified traffic control standards and shall not be paid separately.

All Illinois Standard signs shall conform to the latest edition of the "Illinois Standard Highway Signs Book" in effect on the date of invitation for bids.

Signs shall meet the applicable portions of Sections 701 and 720 of the Standard Specifications.

All dimensions are in inches unless otherwise noted.

COLOR LEGEND AND BORDER BACKGROUND BLACK FL ORANGE NON-REFLECTORIZED REFLECTORIZED

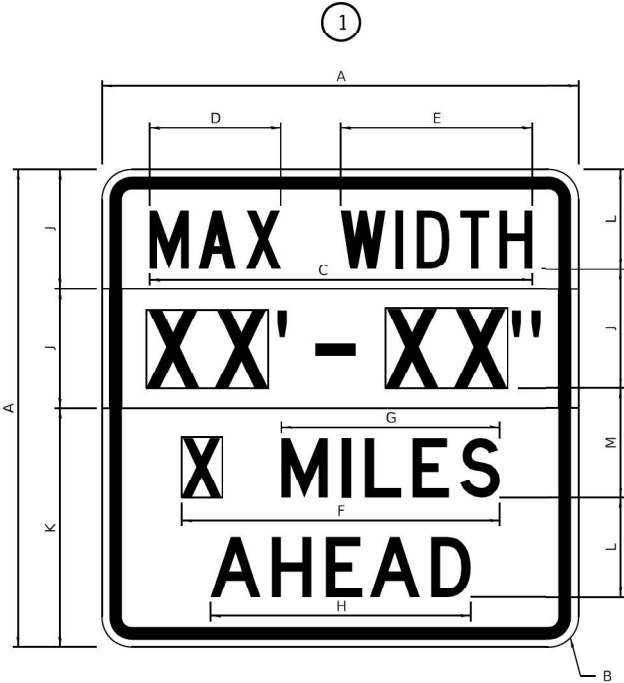
SIGN SIZE	DIMENSIONS	
	A	B
48 x 48	48.00	3.00

1 Illinois Standard signs W12 I102 and W12 I103 shall be used as described in the special provisions.

SIGN SIZE	SERIES BY LINE	MARGIN	BORDER
	1		
48 x 48	12C	0.750	1.250

Sign not to scale

ILLINOIS STANDARD W12-I103



COLOR LEGEND AND BORDER BACKGROUND BLACK WHITE NON-REFLECTORIZED REFLECTORIZED REFLECTORIZED

SIGN SIZE	DIMENSIONS											
	A	B	C	D	E	F	G	H	J	K	L	M
48 x 48	48.00	3.00	38.40	13.20	19.20	32.00	22.00	26.20	12.00	24.00	10.00	11.00

SIGN SIZE	SERIES BY LINE				MARGIN	BORDER
	1	2	3	4		
48 x 48	6C	8D	6D	6D	0.750	1.250

Sign not to scale

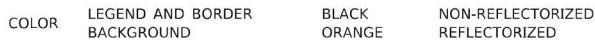
XX'-XX" WIDTH AND X MILES ARE VARIABLE TOP AND BOTTOM OF BACKGROUND WHITE

FILE NAME: District 2 Standard	USER NAME = IDOT/District 2	DESIGNED -	REVISED - 3-02-16	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -										
	PLOT SCALE = 3.0909 ' / In.	CHECKED -	REVISED -										
	PLOT DATE = 5/14/2020	DATE -	REVISED -										
	SCALE: SHEET 2 OF 4 SHEETS STA. TO STA.								CONTRACT NO.				
				ILLINOIS FED. AID PROJECT									

USER NAME = ashergh1	DESIGNED - AS	REVISED -
DRAWN - AS	CHECKED - KEK	REVISED -
PLOT SCALE = 100.0000 ' / in.	DATE - 01/08/2021	REVISED -
PLOT DATE = 3/3/2021		

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
88	(195-3B-4)BOR	WHITESIDE	34	17
CONTRACT NO. 64P94				
ILLINOIS FED. AID PROJECT				

WORK ZONE SIGN DETAILS



2.25" Radius, 0.00" Border, 0.50" Indent;
[CAUTION] D; [ONE LANE ROAD] D;
[FOLLOW TRAFFIC] D; [FLOW] D

② This sign shall be installed at entrances located between the temporary signals as shown in the staging plans.

Table Of Widths And Spaces

22.31	C	0.62	A	0.94	U	0.94	T	0.94	I	1.17	O	1.17	N	22.31
-------	---	------	---	------	---	------	---	------	---	------	---	------	---	-------

8.23	O 3.51	1.17	N 3.36	1.18	E 3.04
------	-----------	------	-----------	------	-----------

5.00	L 3.05	0.31	A 4.18	0.94	N 3.36	1.17	E 3.05
------	-----------	------	-----------	------	-----------	------	-----------

5.00	R 3.36	0.93	O 3.52	0.94	A 4.18	0.93	D 3.36	8.23
------	-----------	------	-----------	------	-----------	------	-----------	------

7.43	F	3.04	0.94	O	3.52	1.17	L	3.04	0.94	L	3.05	0.94	O	3.51	0.94	W	4.37
------	---	------	------	---	------	------	---	------	------	---	------	------	---	------	------	---	------

5.00	T	0.94	R	0.94	A	0.93	F	0.94	F	0.94	I	1.18	C	7.43
------	---	------	---	------	---	------	---	------	---	------	---	------	---	------

27.60	F 3.05	0.94	L 3.04	0.94	O 3.52	0.93	W 4.38	27.60
-------	-----------	------	-----------	------	-----------	------	-----------	-------

Sign not to scale

GENERAL NOTES

All work to furnish and install these signs shall be included in the cost of the specified traffic control standards and shall not be paid separately.

All Illinois Standard signs shall conform to the latest edition of the "Illinois Standard Highway Signs Book" in effect on the date of invitation for bids.

Signs shall meet the applicable portions of Sections 701 and 720 of the Standard Specifications.

All dimensions are in inches unless otherwise noted.



48.0" across sides 3.8" Radius, 1.0" Border, 0.6" Indent;
"STAY" E Mod; "IN YOUR" E Mod; "LANE" E Mod;

Table of Letter and Object Lefts

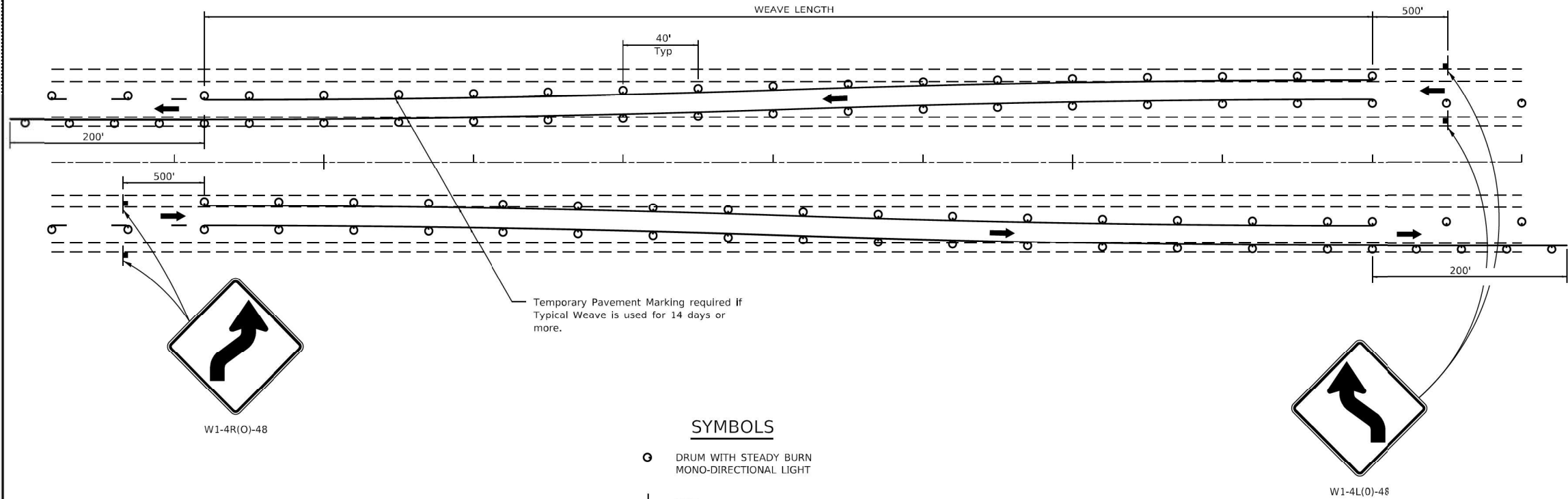
S	T	A	Y
20.7	26.8	31.6	38.0

I	N	Y	O	U	R
13.2	15.9	26.7	33.9	40.5	46.8

L	A	N	E
20.9	25.8	33.1	39.4

Sign not to scale

TRAFFIC CONTROL TYPICAL WEAVE



SYMBOLS

- DRUM WITH STEADY BURN
- MONO-DIRECTIONAL LIGHT
- SIGN

GENERAL NOTES

USE ON LONG 4-LANE PROJECTS WHERE THE CONTRACTOR
MAY CHANGE A PORTION OF THE WORK TO THE OPPOSITE
LANE.

USE WHERE THE PROJECT IS ADJACENT TO ANOTHER
AND THE CONTRACTOR COULD BE WORKING ON
DIFFERENT LANES.

TEMPORARY PAVEMENT MARKING SHALL BE USED WHEN TYPICAL WEAVE IS USED FOR 14 DAYS OR MORE.

TRAFFIC CONTROL TYPICAL WEAVE SHALL BE INCLUDED IN THE COST OF THE SPECIFIC TRAFFIC CONTROL STANDARDS OF ITEMS.

ALL DIMENSIONS ARE IN INCHES
UNLESS OTHERWISE NOTED.

FILE NAME: \district 2 Standard	USER NAME = IDOT\District 2	DESIGNED -	REVISED - 1-05-16	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
		DRAWN -	REVISED - 6-27-14									
	PLOT SCALE = 3.0999' / In.	CHECKED -	REVISED - 8-27-13									
	PLOT DATE = 5/14/2020	DATE -	REVISED - 10-17-11									
						CONTRACT NO.						
				SCALE	SHEET	OF	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		

TRAFFIC CONTROL TYPICAL WEAVE	39.1
-------------------------------	------

USER NAME = ashargh1	DESIGNED - AS	REVISED -
	DRAWN - AS	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED - KEK	REVISED -
PLOT DATE = 3/3/2021	DATE - 01/08/2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

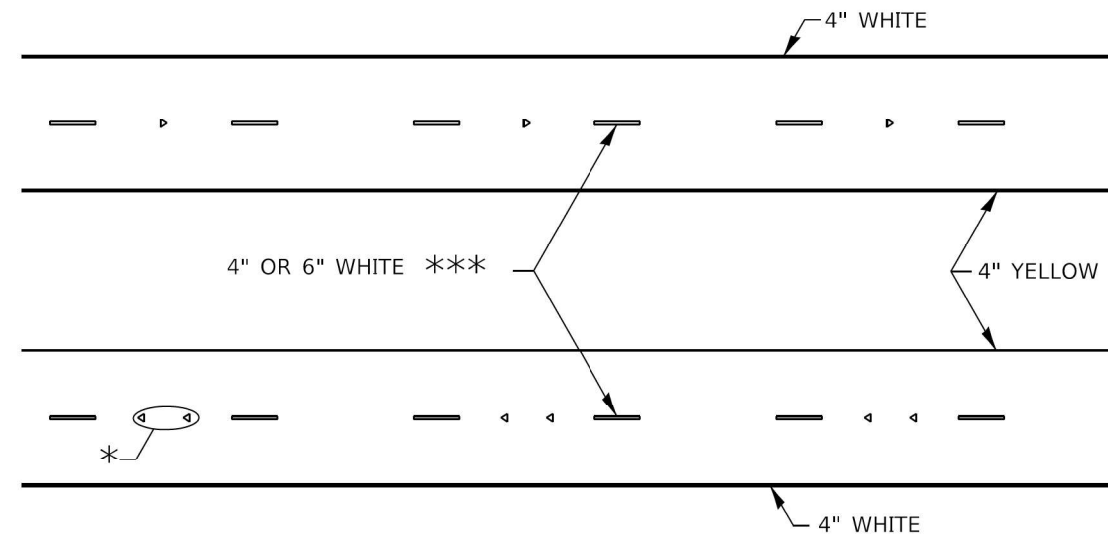
MAINTENANCE OF TRAFFIC TRAFFIC CONTROL TYPICAL WEAV

SCALE:	SHEET 19	OF 34 SHEETS	STA.	TO ST.
--------	----------	--------------	------	--------

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
88	(195-3B-4)BDR	WHITESIDE	34	19
		CONTRACT NO. 64P94		
		ILLINOIS FED. AID PROJECT		

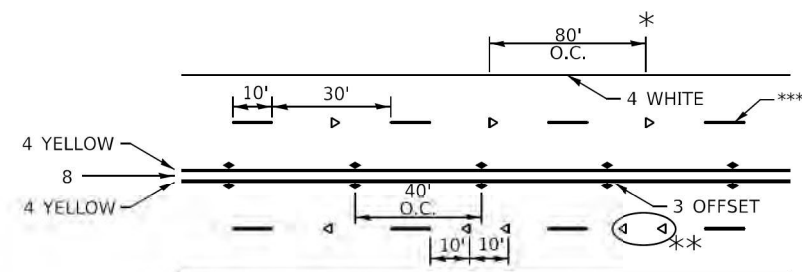
ILLINOIS	FED. AID PROJECT
----------	------------------

TYPICAL PAVEMENT MARKINGS



* SEE HIGHWAY STANDARD 781001 FOR SPACING DETAILS.
USE DOUBLE MARKERS WHEN ADT $\geq 20,000$.

MULTI-LANE / DIVIDED



* REDUCE TO 40' O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 MPH LOWER THAN POSTED SPEEDS.

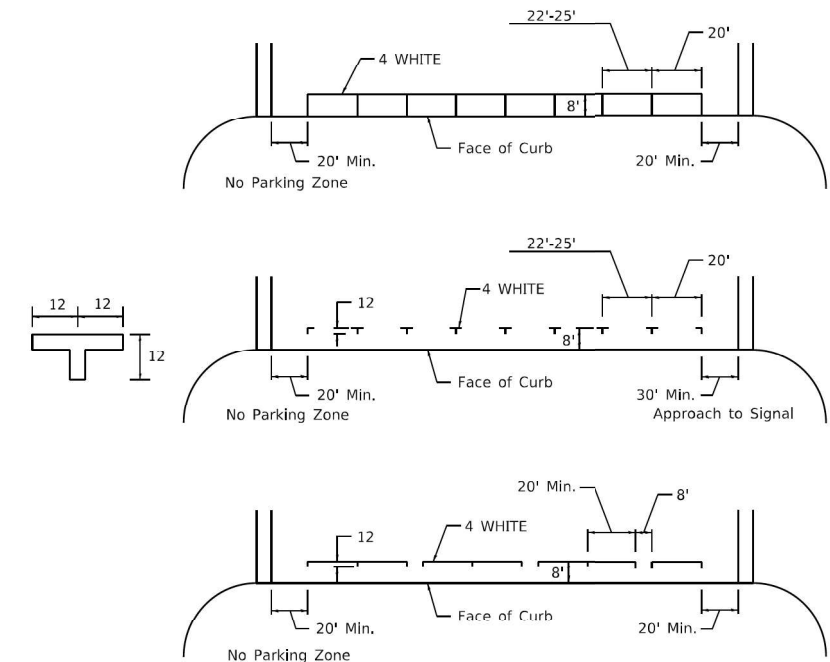
** USE DOUBLE MARKERS WHEN ADT $\geq 20,000$

*** CENTERLINE SKIP DASH PAVEMENT MARKING SPEED LIMIT
LESS THAN 40 MPH USE 4" LINE. SPEED LIMIT 40 MPH AND
OVER USE 6" LINE.

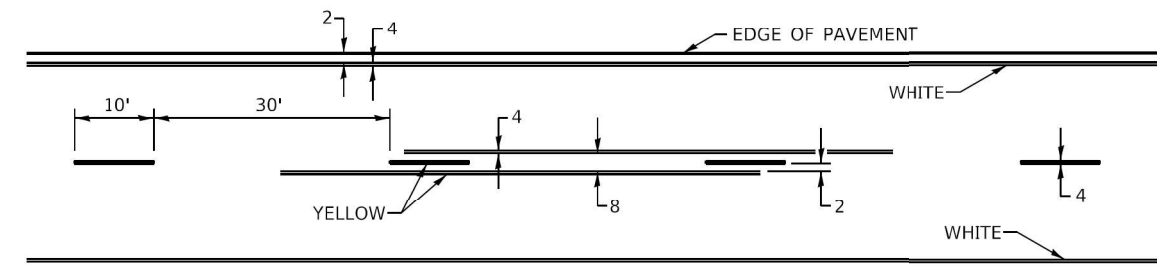
MULTI-LANE / UNDIVIDED & ONE WAY

(FOR MULTI-LANE UNDIVIDED HIGHWAYS USE THIS
DETAIL NOT HIGHWAY STANDARD 781001)

TYPICAL PARKING SPACING



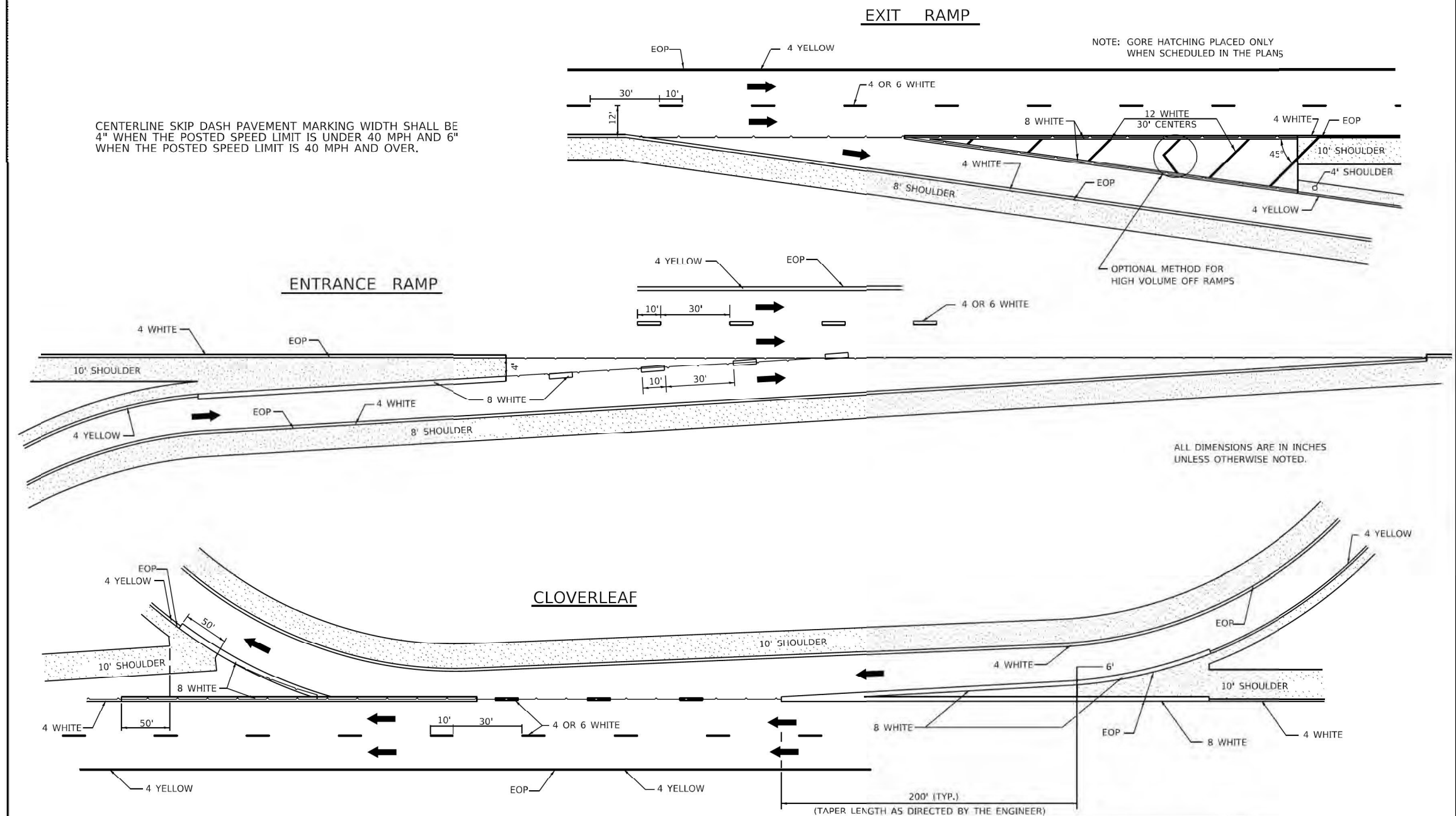
TYPICAL PAVEMENT MARKING FOR TWO LANE SECTION - NO PASSING ZONES



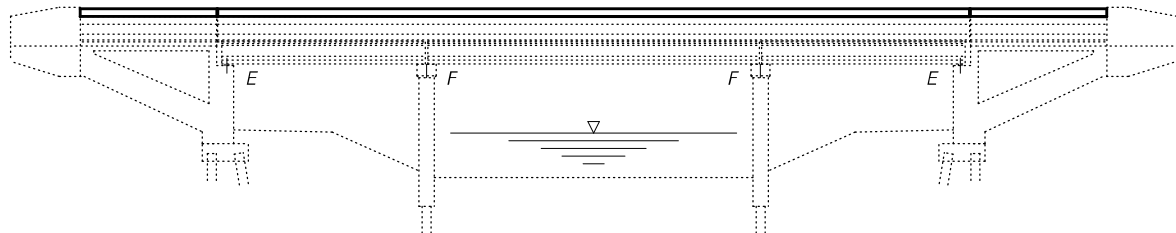
FILE NAME: District 2 Standard	USER NAME : IDOT\District 2	DESIGNED : -	REVISED : 6-27-14	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD					F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN : -	REVISED : 8-27-13											
	PLLOT SCALE : - 1/8" = 1/8" = 1/8"	CHECKED : -	REVISED : 11-28-12		CONTRACT NO.									
	PLLOT DATE : - 1/1/2013	DATE : -	REVISED : -		SCALE:	SHEET 3 OF 3 SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT						

TYPICAL PAVEMENT MARKINGS SHEET 3 OF 3 41.1

PAINTING DETAILS



PAINTING DETAILS 44.1



ELEVATION

SCOPE OF WORK

- 1. Remove & Replacement Abut. Exp. Joints.
- 2. P.P.C I-Beam Repairs
- 3. Remove & Replace overlay with Latex Concrete.
- 4. Remove railing & Install parapet extensions.
- 5. Abutment substructure repair.

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.

See Special Provisions for "Precast Prestressed Concrete I-Beam Repair".

See Special Provisions for "Fiber Wrap for PPC I-Beam Repairs". Acrylic coating shall be placed over fiber wrap repairs.

Reinforcement bars designated (E) shall be epoxy coated.

Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose or potentially detrimental foreign material shall be removed from the surfaces in contact with concrete. Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be included in the pay item covering removal of the existing concrete.

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

The Contractor shall use extreme care during concrete removal so as not to damage the PPC I-Beam.

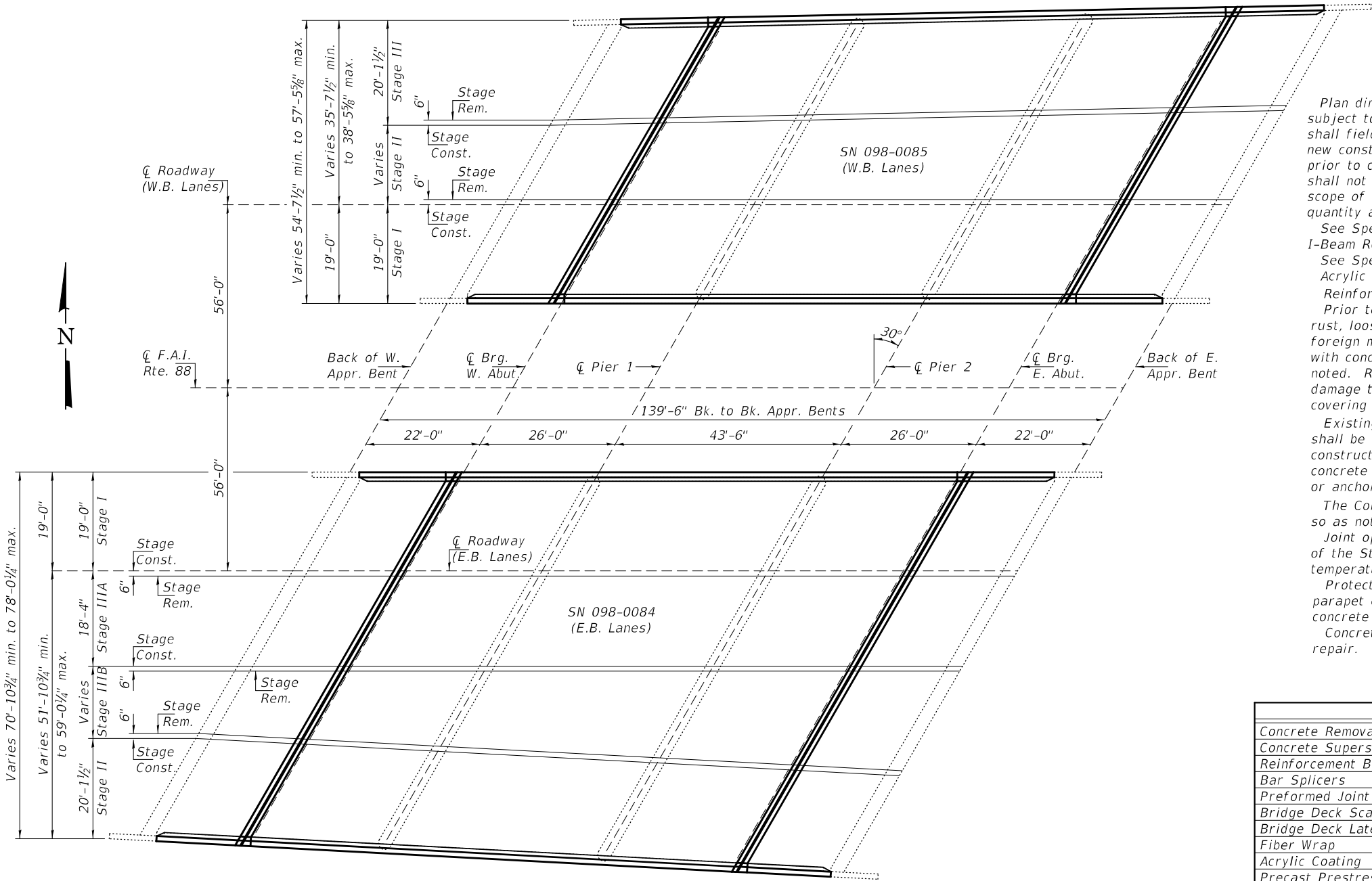
Joint openings shall be adjusted according to Article 520.04 of the Std. Specs. when the deck is poured at an ambient temperature other than 50° F.

Protective Coat shall be applied to the top and inside faces of parapet extensions, new parapets and deck adjacent to new concrete bridge joints, and new latex concrete overlay.

Concrete Sealer shall be applied to the surfaces of substructure repair.

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Concrete Removal	Cu. Yd.	13.7
Concrete Superstructure	Cu. Yd.	13.7
Reinforcement Bars, Epoxy Coated	Pound	1820
Bar Splicers	Each	40
Preformed Joint Strip Seal	Foot	294
Bridge Deck Scarification, 2 3/4"	Sq. Yd.	1862
Bridge Deck Latex Concrete Overlay, 3"	Cu. Yd.	1862
Fiber Wrap	Sq. Ft.	739
Acrylic Coating	Sq. Yd.	66.6
Precast Prestressed Concrete I-Beam Repair	Sq. Ft.	370
Structural Repair of Concrete (Depth ≤ 5 inches)	Sq. Ft.	697.2
Structural Repair of Concrete (Depth > 5 inches)	Sq. Ft.	255
Retrofit Concrete Parapet	Foot	1015
Protective Coat	Sq. Yd.	2176
Temporary Shoring and Cribbing	Each	3
Concrete Sealer	Sq. Ft.	697.2
Bridge Deck Grooving (Longitudinal)	Sq. Yd.	764
Diamond Grinding (Bridge Section)	Sq. Yd.	1862

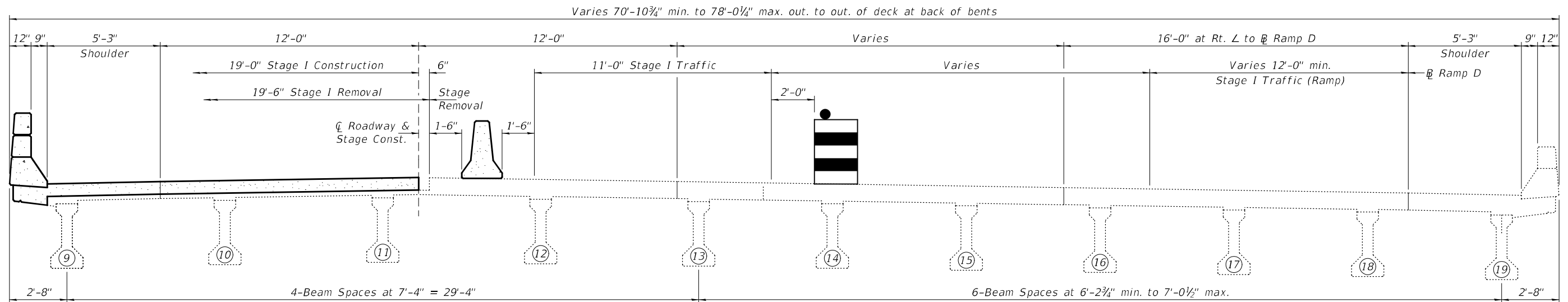


PLAN

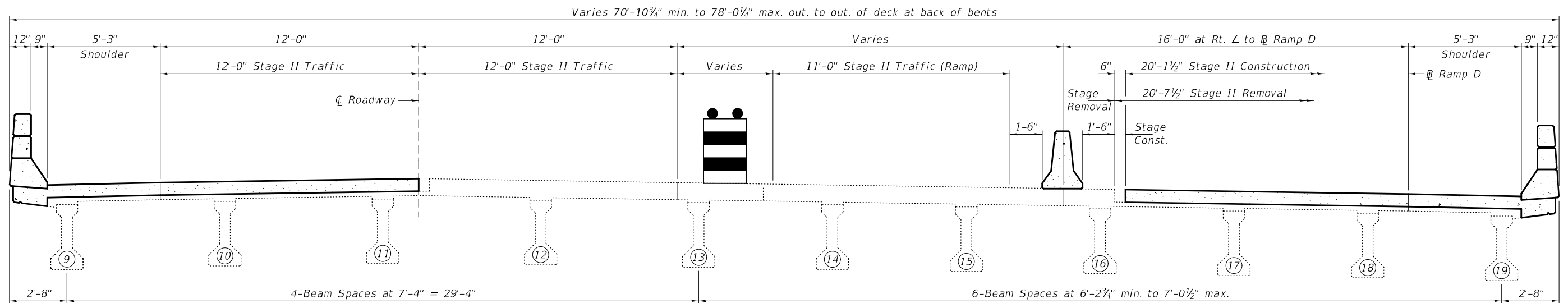


Expires: November 30, 2022

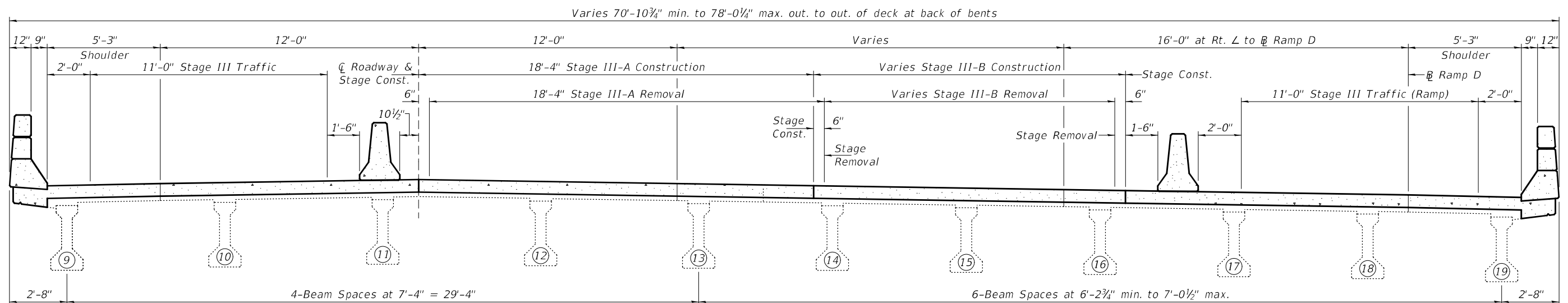
DESIGNED - STEPHEN M. RYAN	EXAMINED	<i>Tring A. B. B.</i>	DATE -	APRIL 21, 2021	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL PLAN & ELEVATION I-88 (E.B.) OVER HENNEPIN CANAL FEEDER SN 098-0084 (E.B.) & -0085 (W.B.)	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHECKED - ADRIAN T. HALLOWAY	PASSED	ENGINEER OF STRUCTURAL SERVICES	REVISED -	88			(195-3B-4)BDR	WHITESIDE	34	22	
DRAWN - STEFFEN		ENGINEER OF BRIDGES AND STRUCTURES	REVISED -	CONTRACT NO. 64P94							
CHECKED - SMR ATH		SHEET NO. 1 OF 14 SHEETS					ILLINOIS FED. AID PROJECT				



STAGE I CROSS SECTION (SN 098-0084 E.B.)
(Looking East)

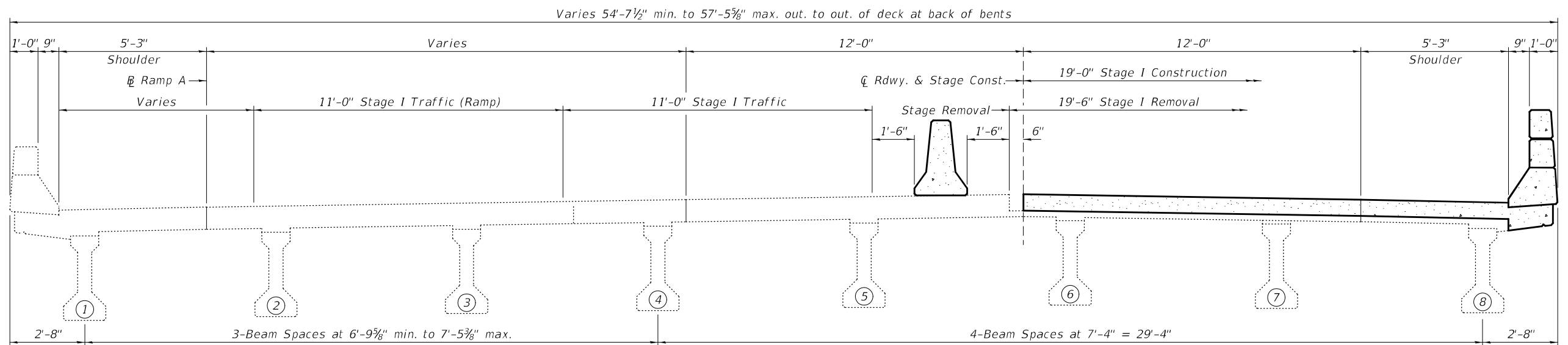


STAGE II CROSS SECTION (SN 098-0084 E.B.)
(Looking East)



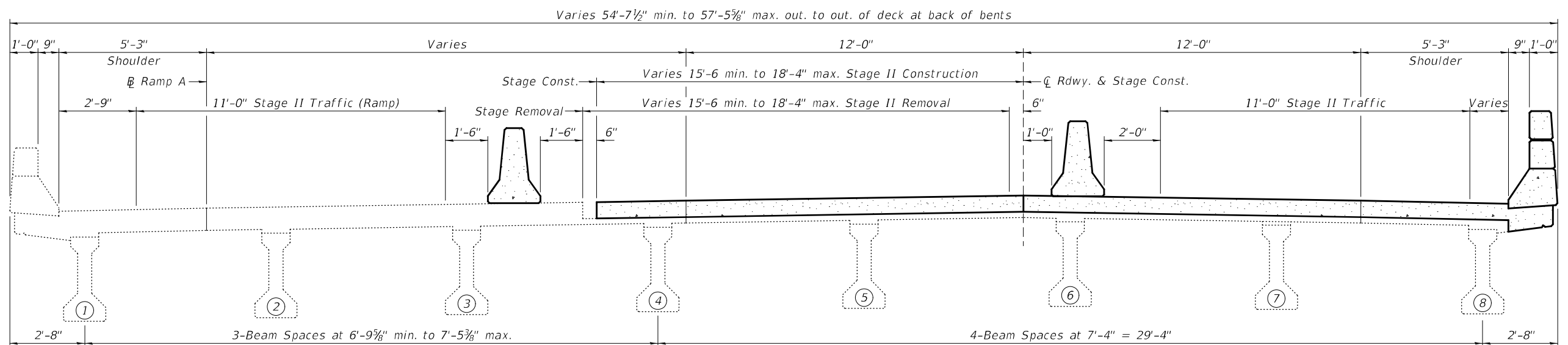
STAGE III CROSS SECTION (SN 098-0084 E.B.)
(Looking East)

DESIGNED - SMR	EXAMINED	DATE - APRIL 21, 2021	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		STAGING DETAILS SN 098-0084 (E.B.)		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHECKED - ATH	PASSED	REVIS					88	(195-3B-4)BDR	WHITESIDE	34	23
DRAWN - STEFFEN		REVIS					CONTRACT NO. 64P94				
CHECKED - SMR ATH							ILLINOIS FED. AID PROJECT				



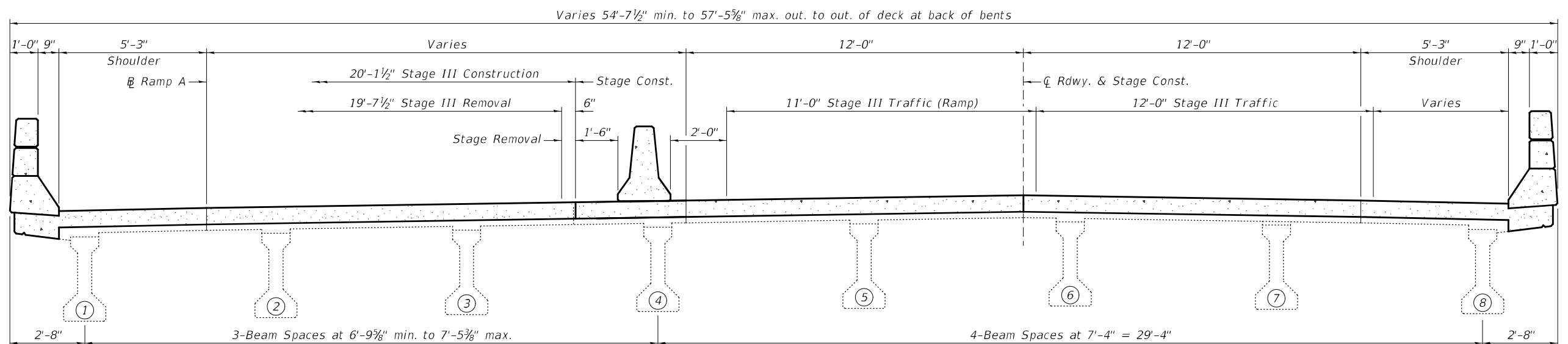
STAGE I CROSS SECTION (SN 098-0085 W.B.)

(Looking East)



STAGE II CROSS SECTION (SN 098-0085 W.B.)

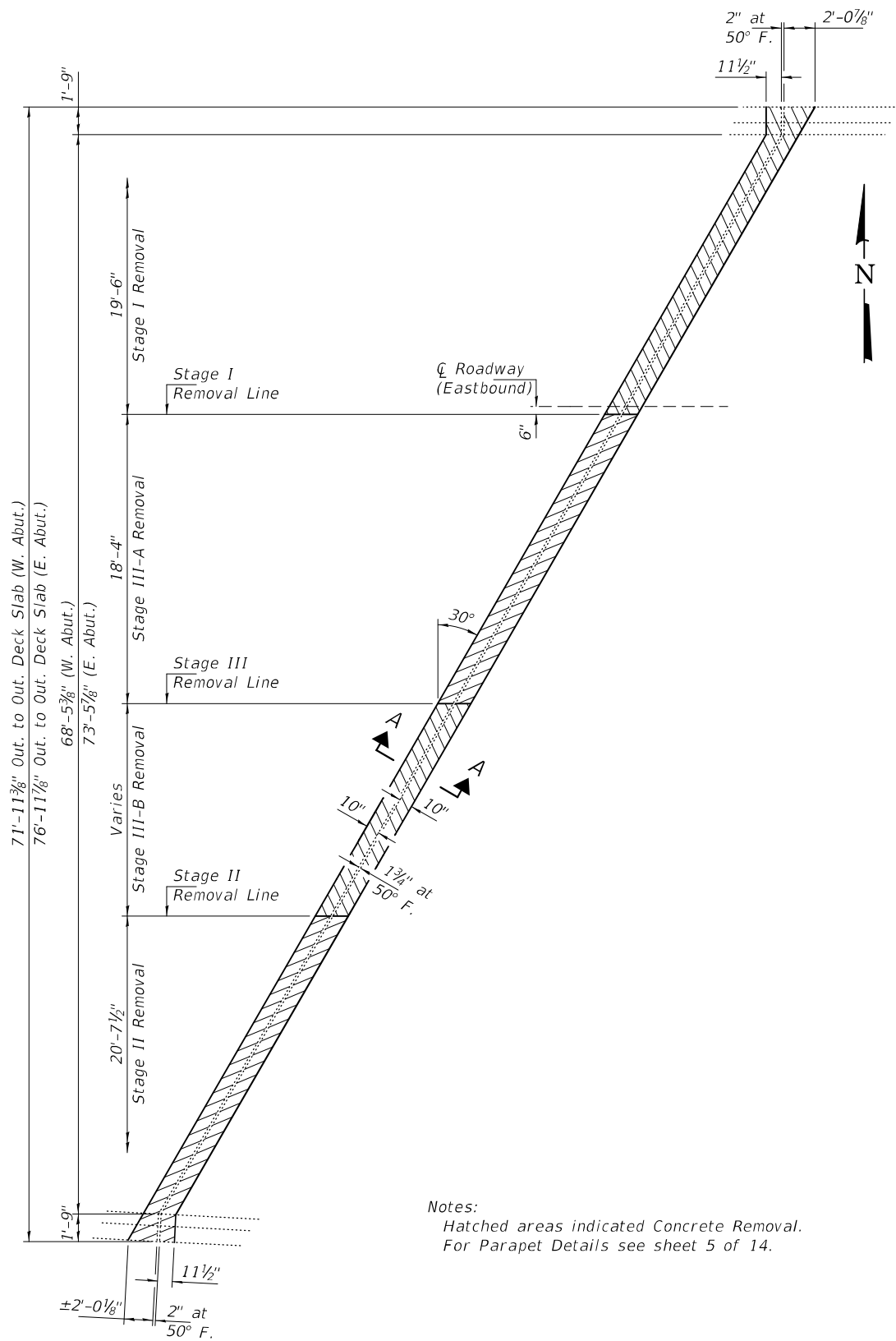
(Looking East)



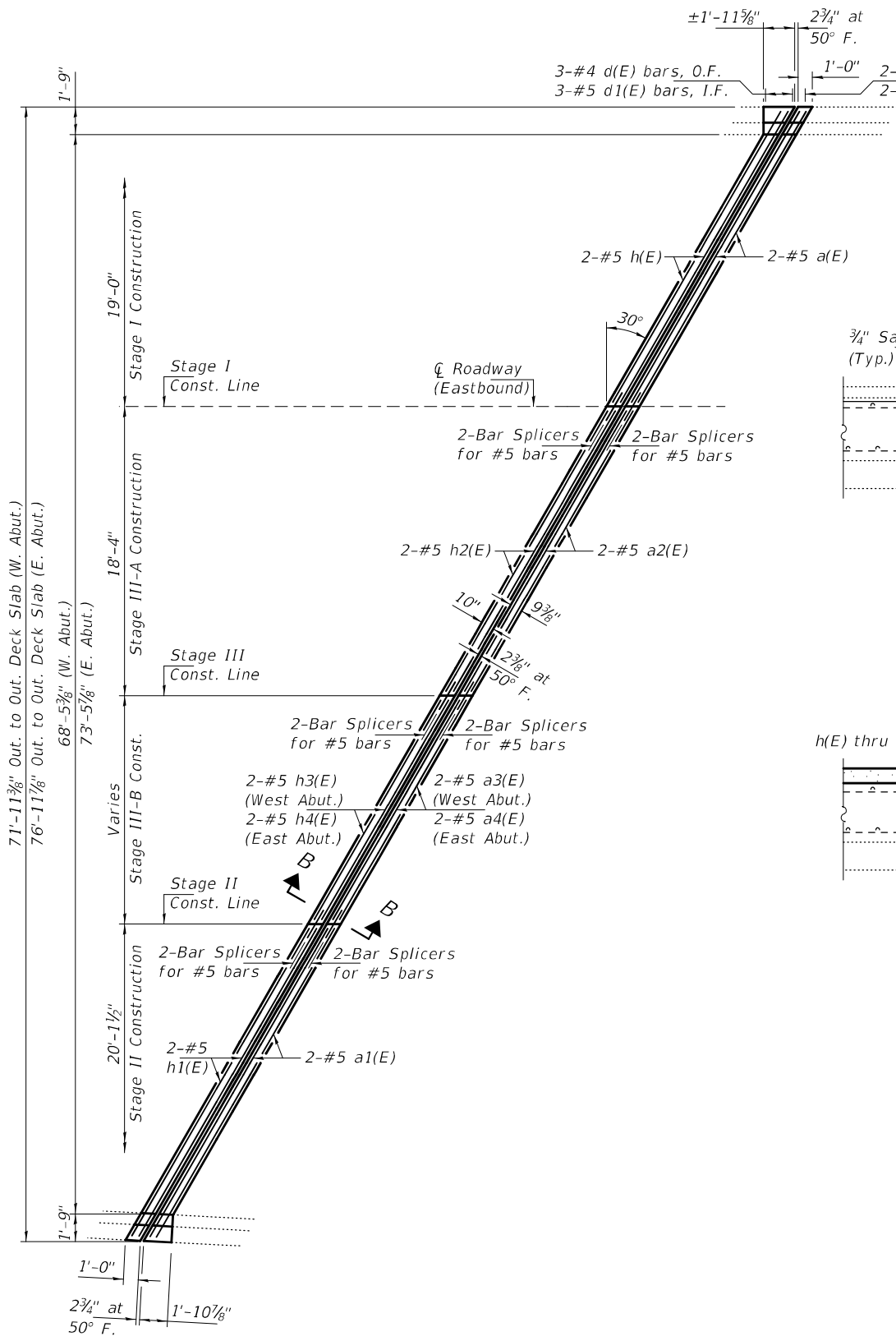
STAGE III CROSS SECTION (SN 098-0085 W.B.)

(Looking East)

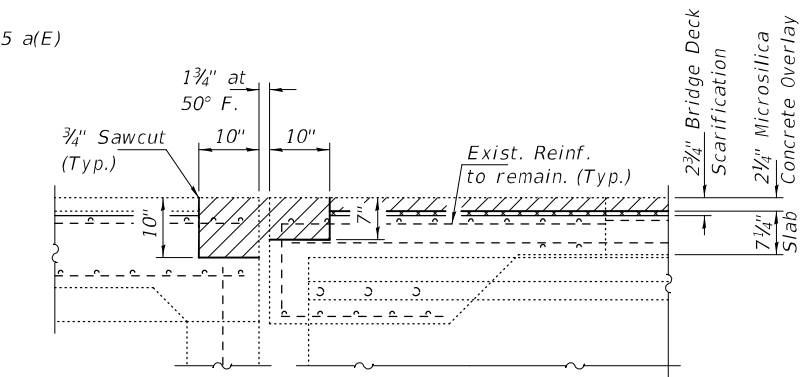
DESIGNED - SMR	EXAMINED	DATE - APRIL 21, 2021	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGING DETAILS SN 098-0085 (W.B.)	SHEET NO. 3 OF 14 SHEETS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHECKED - ATH	PASSED	REVIS				88	(195-3B-4)BDR	WHITESIDE	34	24
DRAWN - STEFFEN		REVIS				CONTRACT NO. 64P94				
CHECKED - SMR ATH		REVIS				ILLINOIS FED. AID PROJECT				



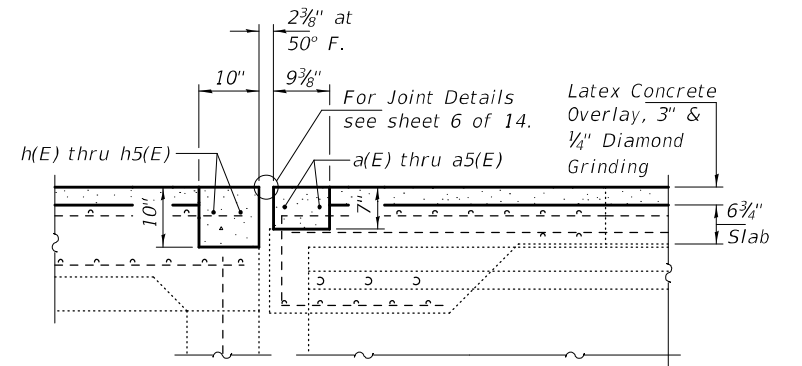
CONCRETE REMOVAL PLAN
(W. Abut. shown, E. Abut. similar by rotation except as noted.)



CONCRETE REPLACEMENT PLAN
(W. Abut. shown, E. Abut. similar by rotation except as noted.)



SECTION A-A
Dims. at Rt. L



SECTION B-B
Dims. at Rt. L

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	4	#5	21'-5"	—
a1(E)	4	#5	22'-9"	—
a2(E)	4	#5	21'-0"	—
a3(E)	2	#5	15'-4"	—
a4(E)	2	#5	23'-7"	—
d(E)	16	#4	4'-11"	L
d1(E)	16	#5	4'-7"	L
h(E)	4	#5	21'-8"	—
h1(E)	4	#5	23'-0"	—
h2(E)	4	#5	21'-0"	—
h3(E)	2	#5	15'-4"	—
h4(E)	2	#5	23'-7"	—
Concrete Removal			Cu. Yd.	7.8
Concrete Superstructure			Cu. Yd.	7.8
Bar Splicers			Each	24
Reinforcement Bars, Epoxy Coated			Pound	1000

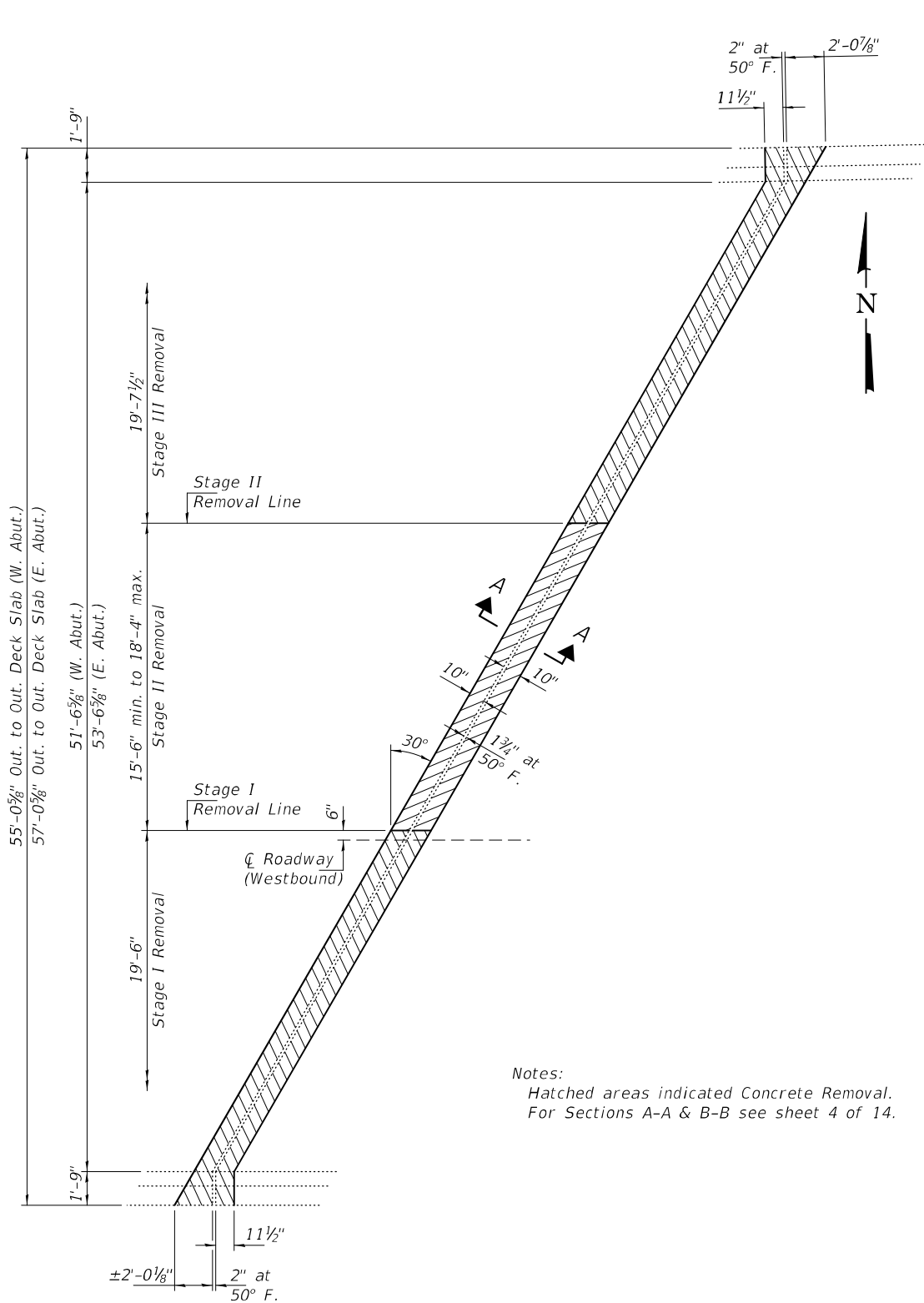
DESIGNED - SMR	EXAMINED	DATE - APRIL 21, 2021
CHECKED - ATH	PASSED	REVISED -
DRAWN - STEFFEN		REVISED -
CHECKED - SMR ATH		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

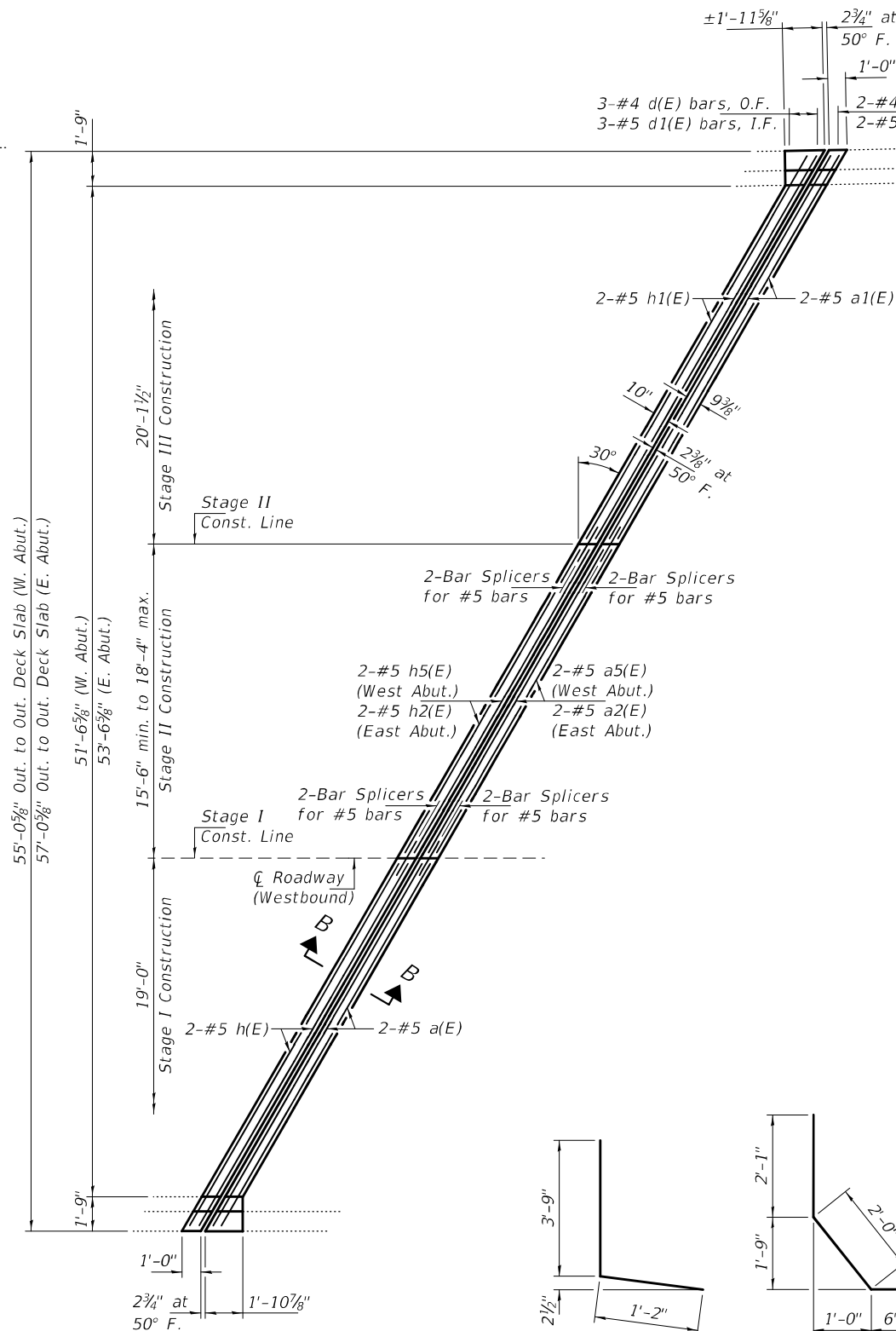
JOINT REMOVAL & REPLACEMENT DETAILS
SN 098-0084 (E.B.)

SHEET NO. 4 OF 14 SHEETS

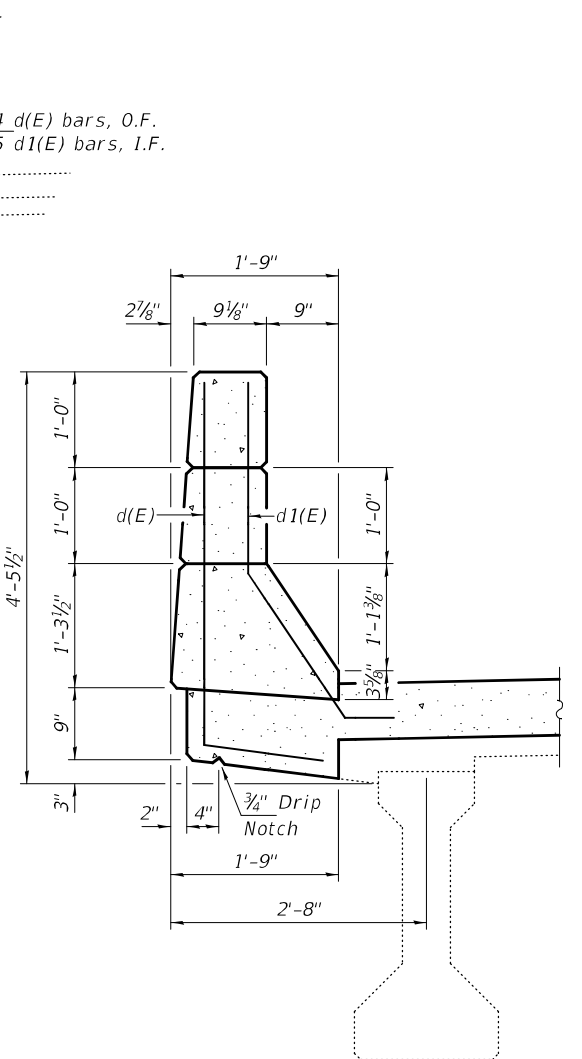
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
88	(195-3B-4)BDR	WHITESIDE	34	25
CONTRACT NO. 64P94				
ILLINOIS FED. AID PROJECT				



CONCRETE REMOVAL PLAN
(W. Abut. shown, E. Abut. similar by rotation except as noted.)



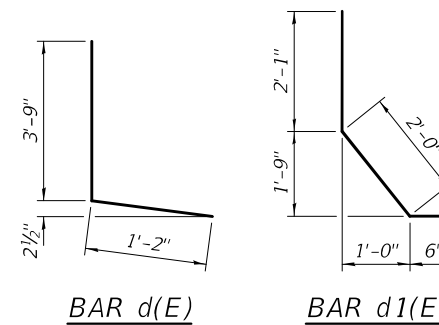
CONCRETE REPLACEMENT PLAN
(W. Abut. shown, E. Abut. similar by rotation except as noted.)



SECTION THRU PARAPET

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	4	#5	21'-5"	
a1(E)	4	#5	21'-9"	
a2(E)	2	#5	21'-0"	
a5(E)	2	#5	17'-9"	
d(E)	16	#4	4'-11"	L
d1(E)	16	#5	4'-7"	L
h(E)	4	#5	21'-8"	
h1(E)	4	#5	23'-0"	
h2(E)	2	#5	21'-0"	
h5(E)	2	#5	17'-9"	
Concrete Removal			Cu. Yd.	5.9
Concrete Superstructure			Cu. Yd.	5.9
Bar Splicers			Each	16
Reinforcement Bars, Epoxy Coated			Pound	820



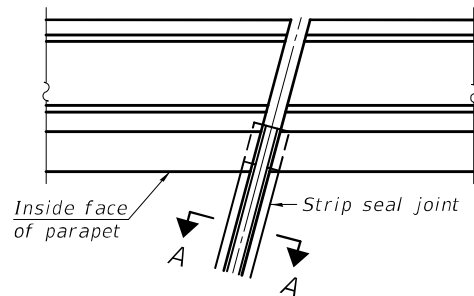
DESIGNED - SMR	EXAMINED	DATE - APRIL 21, 2021
CHECKED - ATH	PASSED	REVISED -
DRAWN - STEFFEN		REVISED -
CHECKED - SMR ATH		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

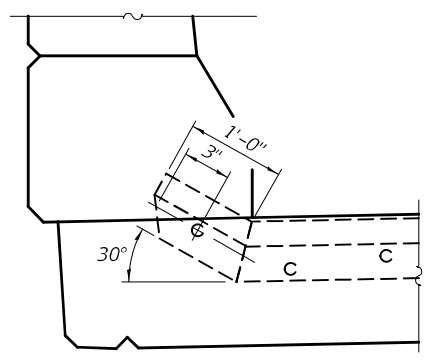
JOINT REMOVAL & REPLACEMENT DETAILS
SN 098-0085 (W.B.)

SHEET NO. 5 OF 14 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
88	(195-3B-4)BDR	WHITESIDE	34	26
CONTRACT NO. 64P94				
ILLINOIS FED. AID PROJECT				

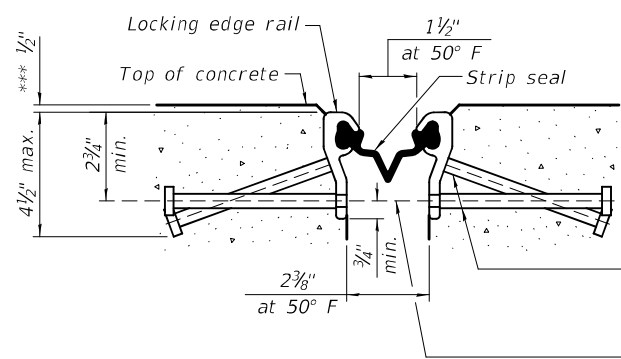


FOR SKEWS ≤ 30°
PLAN AT PARAPET



ELEVATION AT PARAPET
(Skews ≤ 30°)

*** Prior to the 1/4" Diamond Grinding.

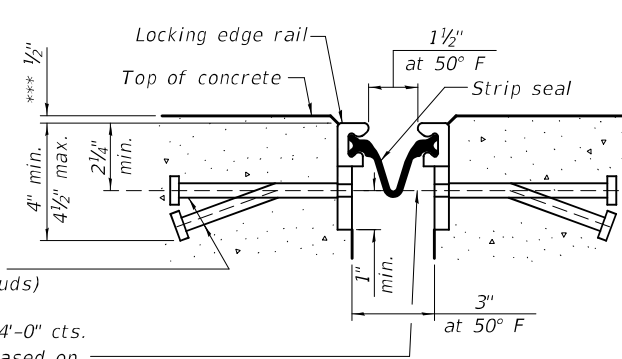


SHOWING ROLLED RAIL JOINT

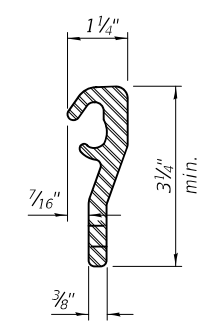
* 5/8"Ø x 6" studs at 6" cts. (alternate angled/bent studs with horizontal studs)
3/8"Ø threaded rods in 7/16"Ø holes at ±4'-0" cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.

SECTION A-A

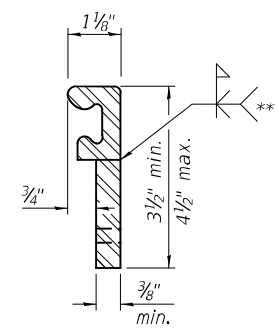
* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.



SHOWING WELDED RAIL JOINT



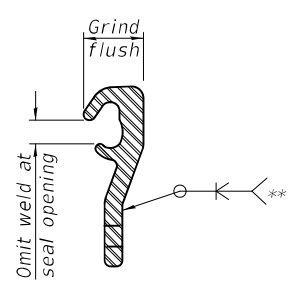
ROLLED (EXTRUDED) RAIL



WELDED RAIL

LOCKING EDGE RAILS

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

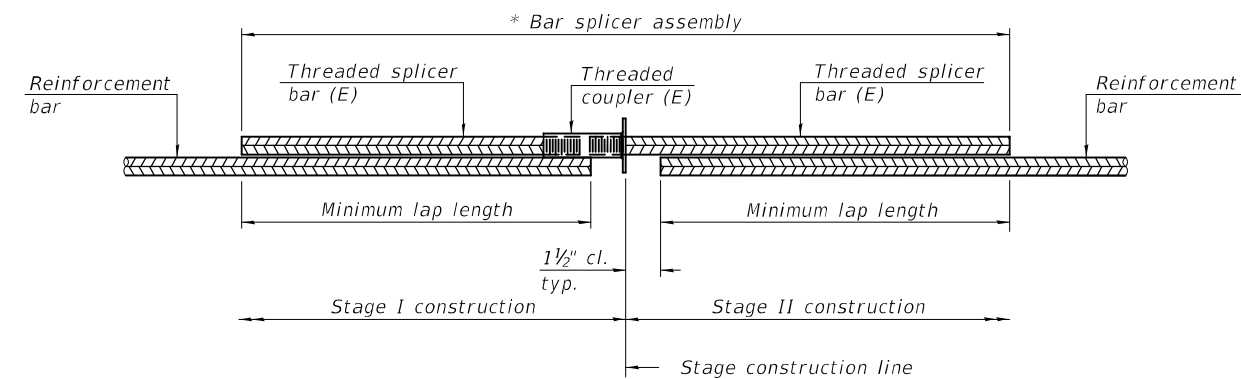


LOCKING EDGE RAIL SPLICE

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

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	294

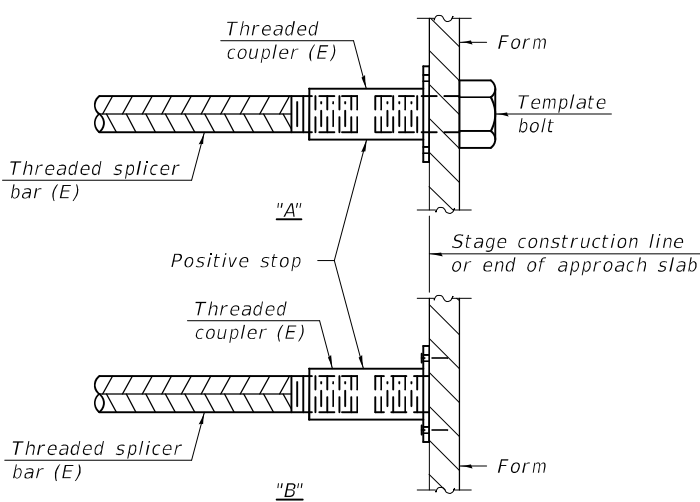


STANDARD BAR SPLICER ASSEMBLY PLAN
(All components shall be provided from one supplier)

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

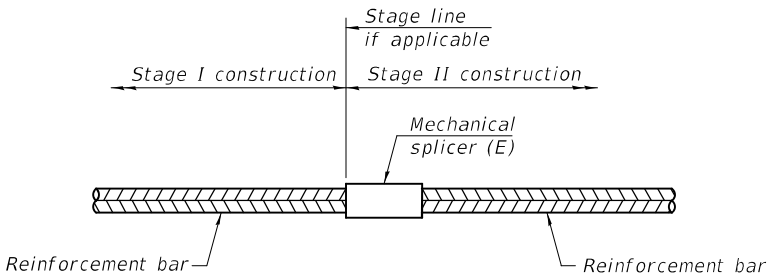
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
Back Walls	#5	20	3'-4"
Deck Slabs	#5	20	3'-0"



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

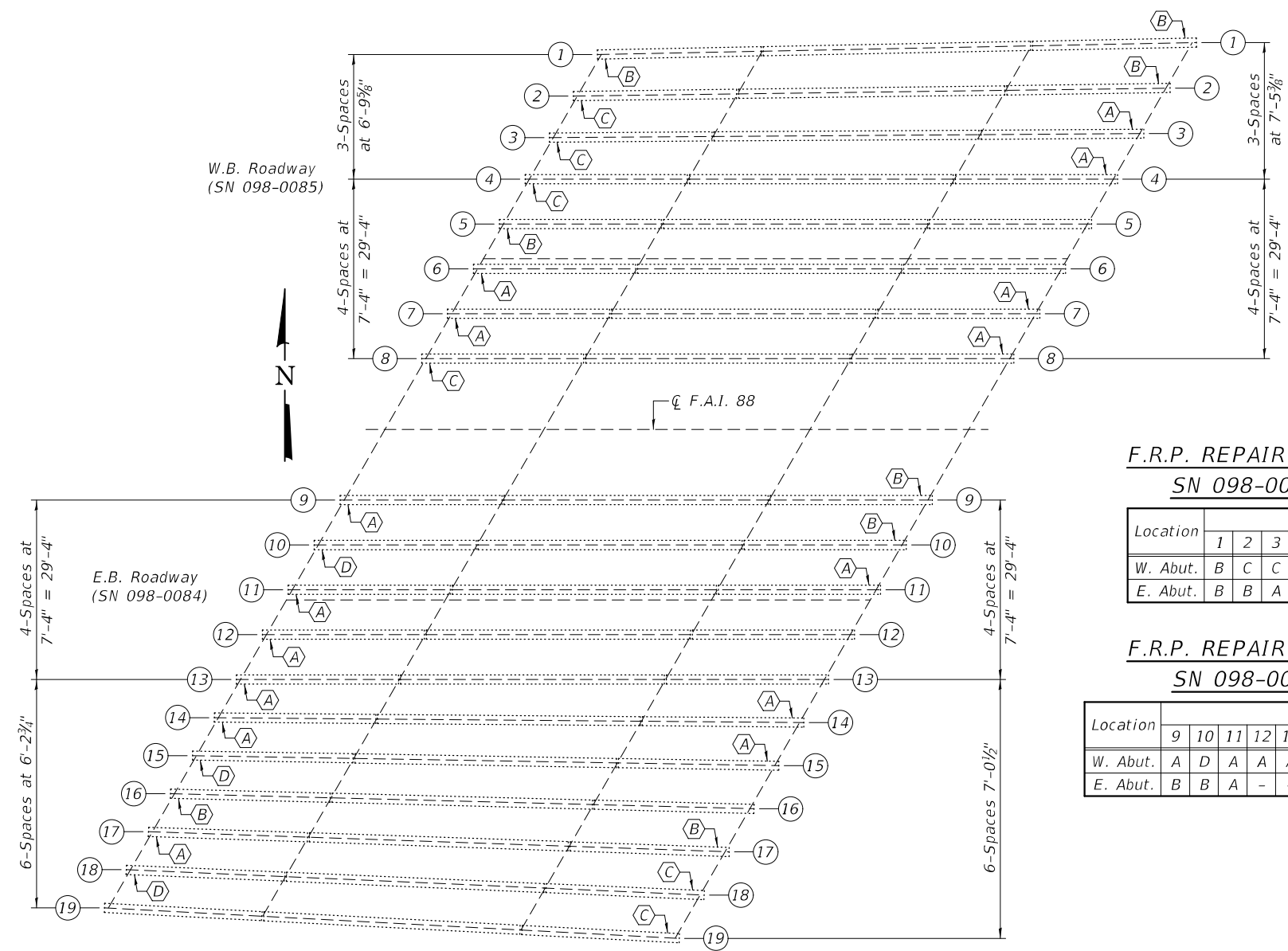
Location	Bar size	No. assemblies required

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.

BSD-1

1-1-2020

DESIGNED - SMR	EXAMINED	DATE - APRIL 21, 2021	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION				BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS SN 098-0084 (E.B.) & -0085 (W.B.)				F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHECKED - ATH	PASSED	REVIS									88	(195-3B-4)BDR	WHITESIDE	34	28
DRAWN - STEFFEN		REVIS					SHEET NO. 7 OF 14 SHEETS				ILLINOIS FED. AID PROJECT				
CHECKED - SMR ATH															



F.R.P. REPAIR TYPE TABLE
SN 098-0085 (W.B.)

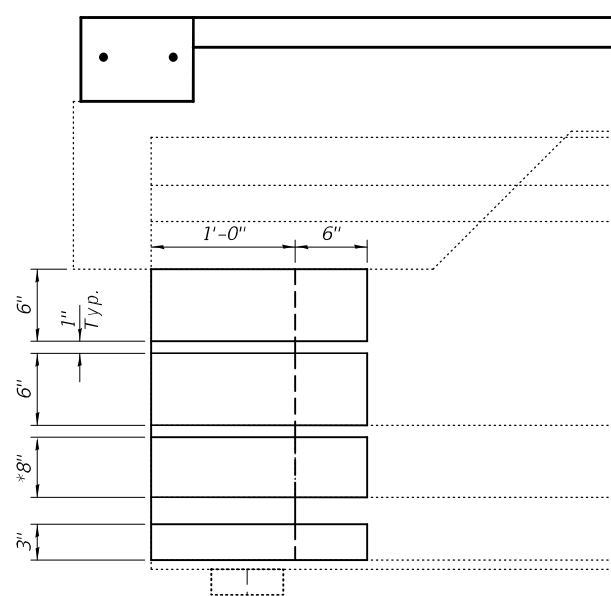
Location	Beam							
	1	2	3	4	5	6	7	8
W. Abut.	B	C	C	C	B	A	A	C
E. Abut.	B	B	A	A	-	-	A	A

F.R.P. REPAIR TYPE TABLE
SN 098-0084 (E.B.)

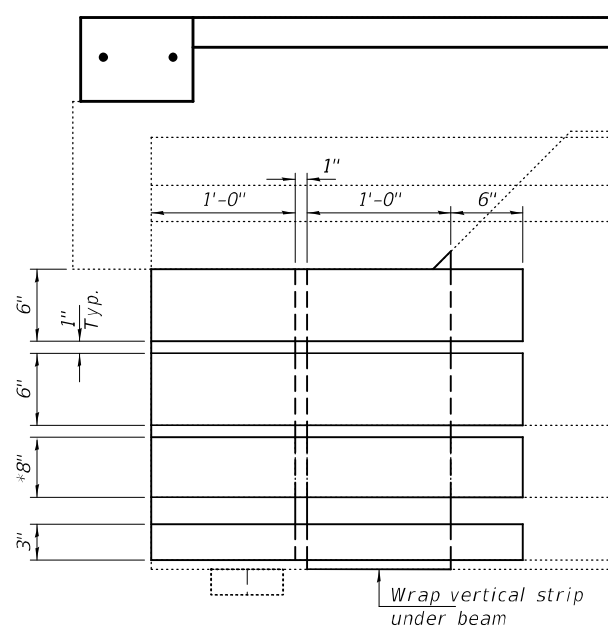
Location	Beam											
	9	10	11	12	13	14	15	16	17	18	19	
W. Abut.	A	D	A	A	A	A	D	B	A	D	–	
E. Abut.	B	B	A	–	–	A	A	–	B	C	C	

FRAMING PLAN

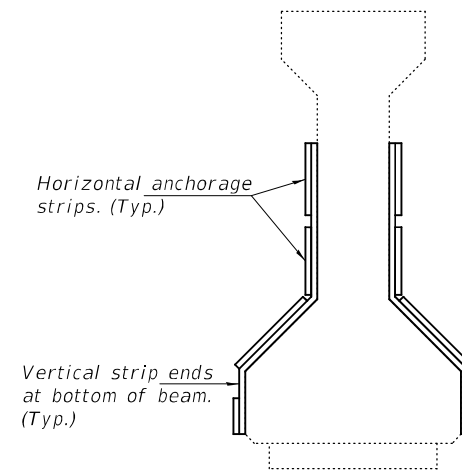
- A - F.R.P. Type "A"
- B - F.R.P. Type "B"
- C - F.R.P. Type "C"
- D - F.R.P. Type "D"



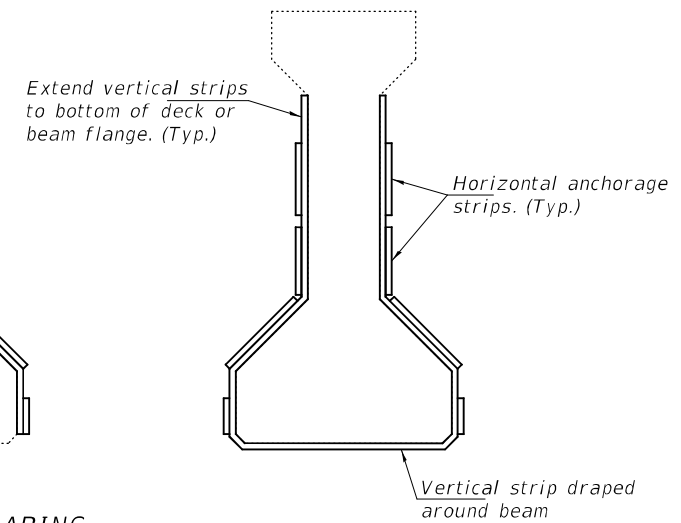
REPAIR TYPE "A"
(15-Locations)



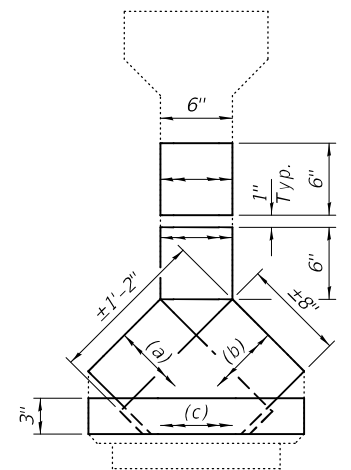
REPAIR TYPE "B"
(8-Locations)



SECTION THRU BEARING



SECTION OUTSIDE BEARING

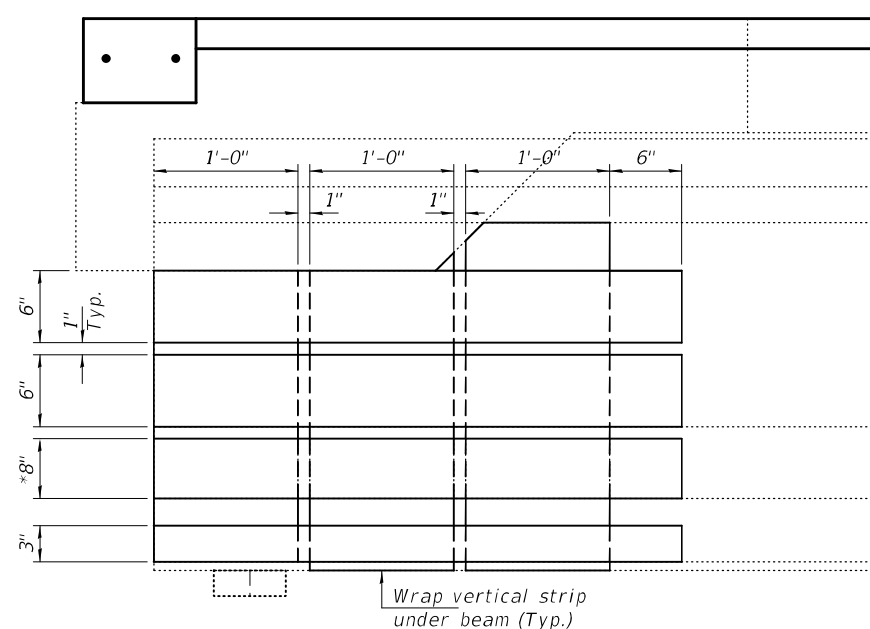


**FRP TREATMENT
AT END OF BEAM**

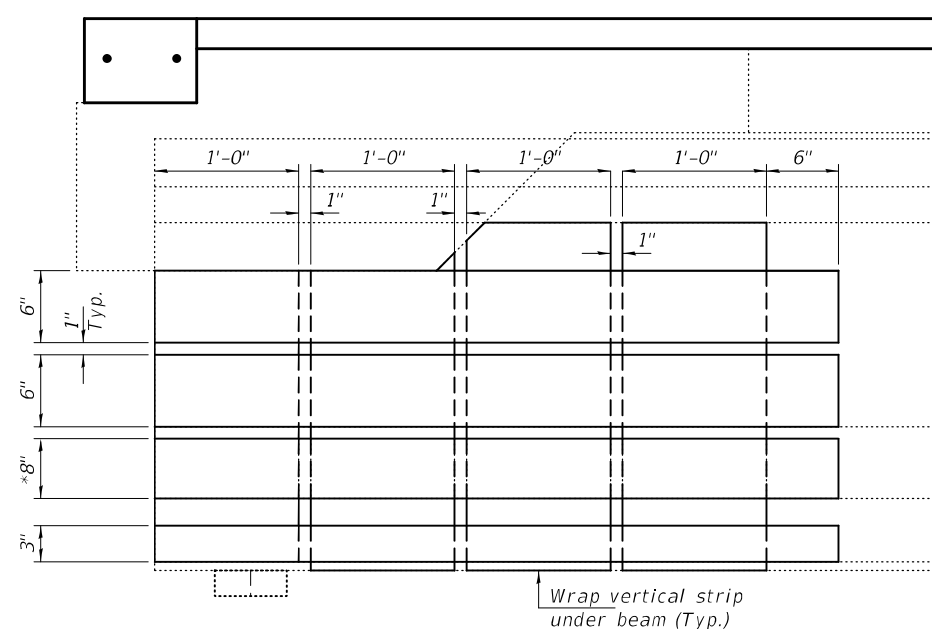
Note:
Place FRP in the following
order (a), (b) and (c).

direction
FRP

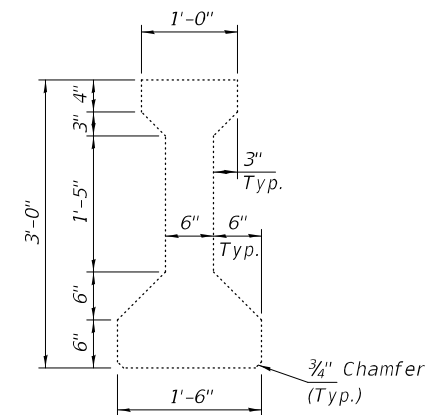
* Along sloped surface



REPAIR TYPE "C"
(6-Locations)

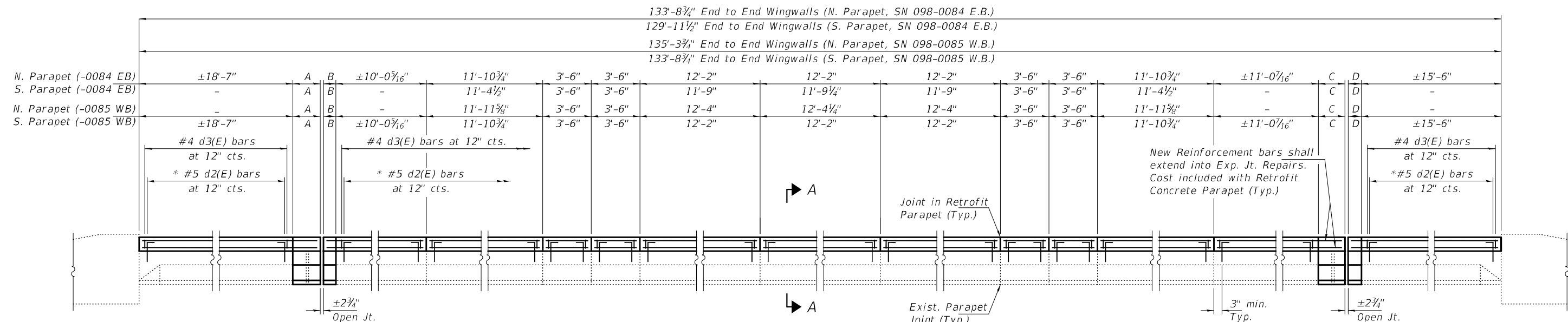


REPAIR TYPE "D"
(3-Locations)

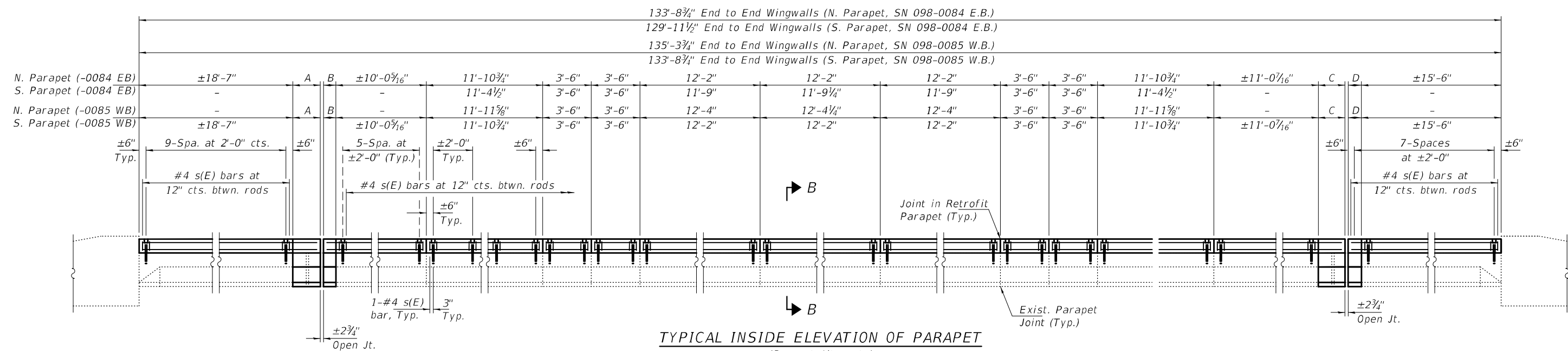


BEAM DIMENSIONS

DESIGNED - SMR	EXAMINED <div> ENGINEER OF STRUCTURAL SERVICES</div>	DATE - APRIL 21, 2021	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	P.P.C. I-BEAM FIBER REINFORCEMENT REPAIR DETAILS SN 098-0084 (E.B.) & -0085 (W.B.)	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
CHECKED - ATH					88	(195-3B-4)BDR	WHITESIDE	34	30		
DRAWN - STEFFEN		PASSED <div> ENGINEER OF BRIDGES AND STRUCTURES</div>			REVISED -	CONTRACT NO. 64P94					
CHECKED - SMR ATH					REVISED -	ILLINOIS FED. AID PROJECT					
SHEET NO. 9 OF 14 SHEETS											



TYPICAL INSIDE ELEVATION OF PARAPET
(Cast-in-Place Alternate)



TYPICAL INSIDE ELEVATION OF PARAPET
(Precast Alternate)

**** TABLE OF DIMENSIONS**

Structure	Parapet	Dim. A	Dim. B	Dim. C	Dim. D
098-0084 (E.B.)	North	1'-11 ¹ / ₁₆ "	1'-0"	1'-0"	1'-9 ³ / ₁₆ "
	South	1'-0"	1'-9 ³ / ₁₆ "	1'-11 ¹ / ₁₆ "	1'-0"
098-0085 (W.B.)	North	2'-0 ³ / ₈ "	1'-0"	1'-0"	1'-11"
	South	1'-11 ¹ / ₁₆ "	1'-0"	1'-0"	1'-9 ³ / ₁₆ "

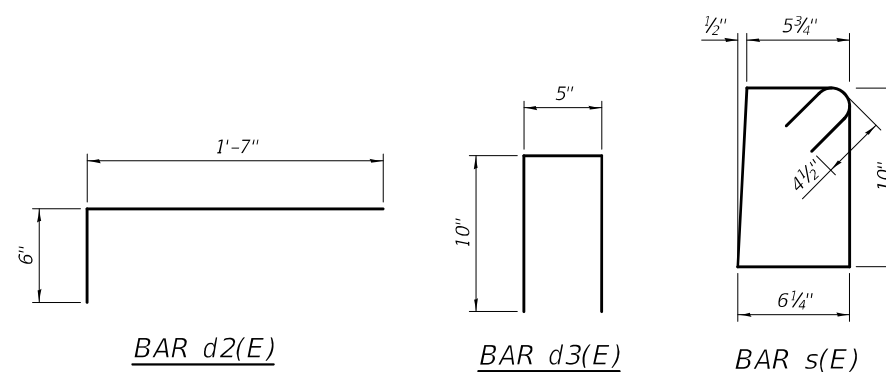
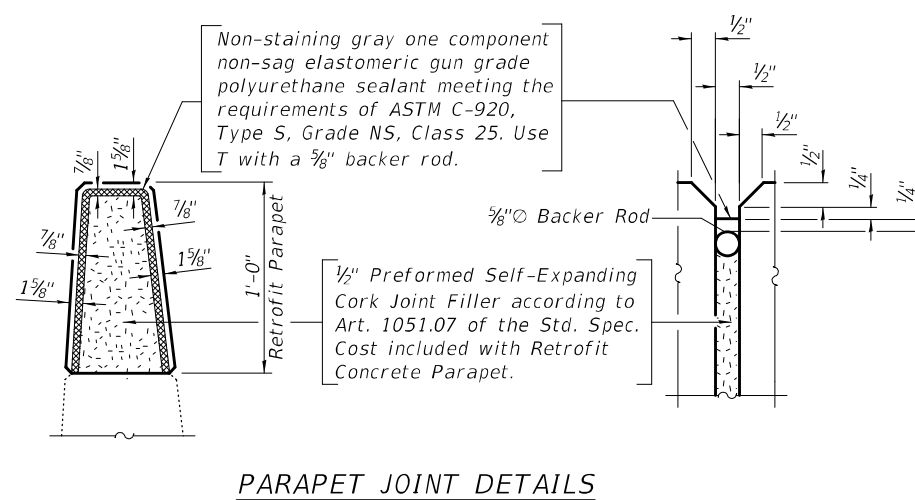
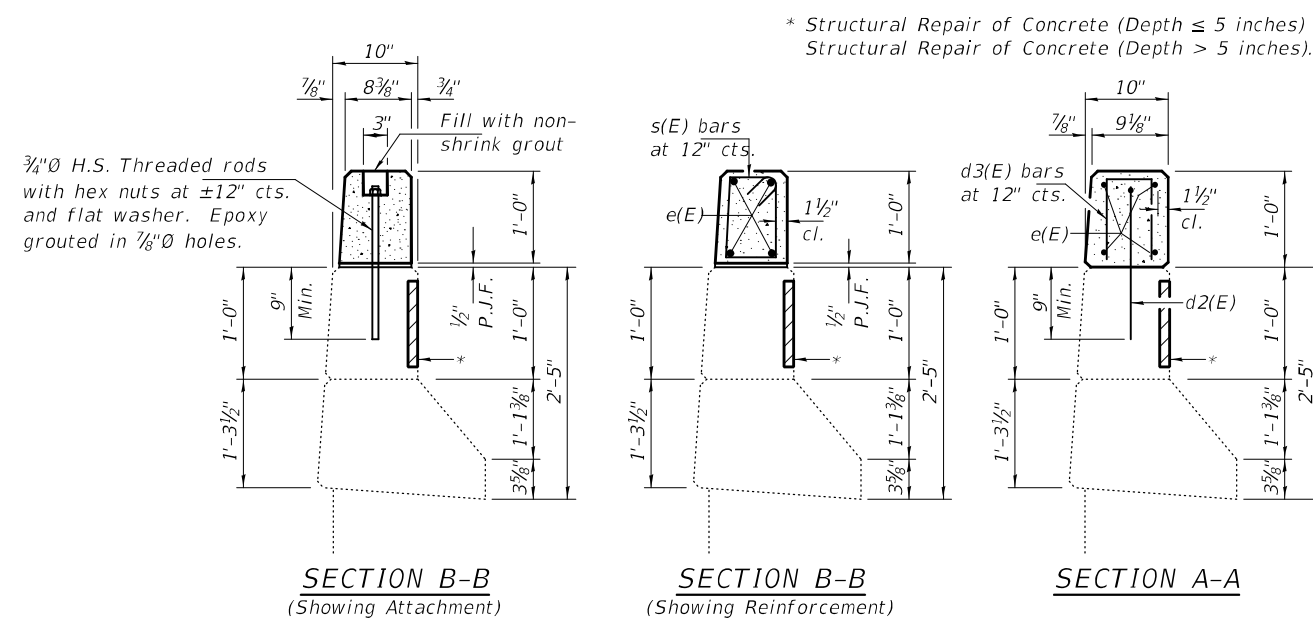
* Epoxy grout d2(E) bars in 7/8"Ø x 9" (min.) holes. The grout and the method of application shall be approved by the department. (See Section 584 of the Standard Specifications). Cost included with "Retrofit Concrete Parapet".

** Portion of Parapet to be rebuilt with Expansion Joint Replacement. (See sheets 4 & 5 of 14.)

For Notes, Bill of Material, Sections A-A & B-B, and reinf. bending diagrams, see sheet 11 of 14.

NOTES

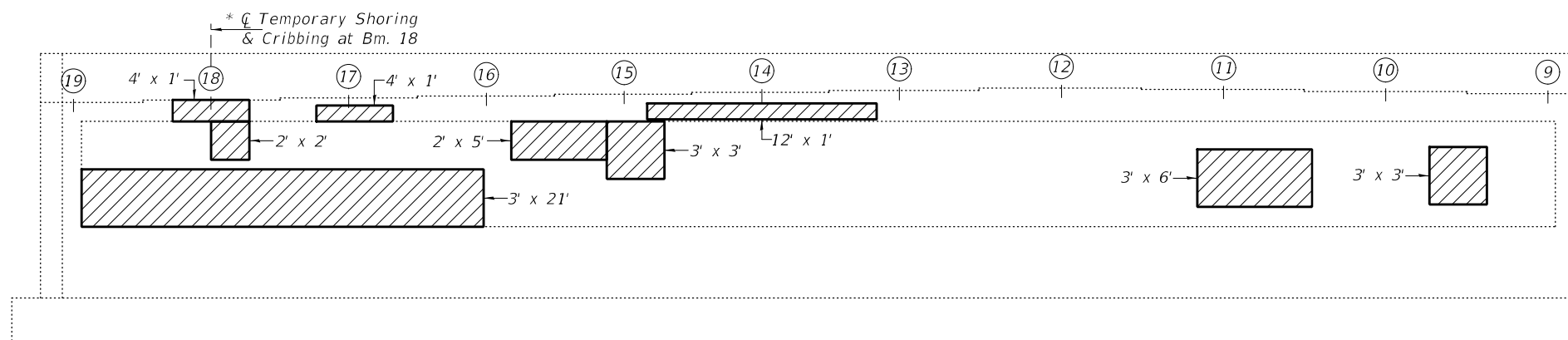
1. *Class SI Concrete shall be used throughout for Cast-in-Place option.*
2. *Class PC Concrete shall be used throughout for Precast option.*
3. *All exposed edges shall be chamfered $\frac{3}{4}$ ".*
4. *Cost of all materials, labor and equipment to complete the work as detailed and as specified in the Special Provisions shall be included in the cost of "Retrofit Concrete Parapet".*
5. *The Contractor shall use the capsule or adhesive cartridge type anchor rods that have been previously tested and given a prior approval by the Department. The Contractor shall install these rods in pre-drilled holes according to the manufacturer's recommendation and procedures.*
6. *The capsule or adhesive cartridge shall be sealed glass capsule or a sealed glass adhesive cartridge containing premeasured amount of adhesive chemical. The threaded rod stud with nut & washers shall conform to ASTM A307.*
7. *Epoxy grout d2(E) bars in $\frac{7}{8}$ "Ø x 9" (min.) holes. The grout and the method of application shall be approved by the department. (See Section 584 of the Standard Specifications). Cost included with "Retrofit Concrete Parapet".*
8. *Retrofit Concrete Parapet shall be used on both sides of both structures over the full length of the structures less portions poured with expansion joint replacement.*
9. *The existing railings shall be removed and disposed of according to Article 501.05 of the Standard Specifications. Cost included with Retrofit Concrete Parapet*
10. *See existing plan information sheets for existing parapet and railing details.*
11. *Quantities for Structural Repair of Concrete (Depth \leq 5 inches) & Structural Repair of Concrete (Depth $>$ 5 inches) at the parapets is estimated. Areas to be repaired shall be determined in the field by the Engineer and areas and final quantities marked on the As-Built plans.*



BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Retrofit Concrete Parapet	Foot	517
Structural Repair of Concrete (Depth ≤ 5 inches)	Sq. Ft.	22
Structural Repair of Concrete (Depth > 5 inches)	Sq. Ft.	255

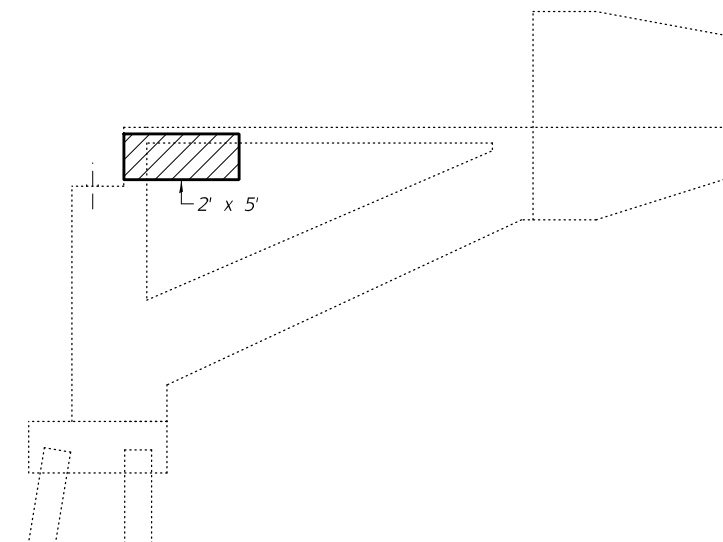
DESIGNED - SMR	EXAMINED		DATE -	APRIL 21, 2021	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	RETROFIT CONCRETE PARAPET DETAILS SN 098-0084 (E.B.) & -0085 (W.B.)	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
CHECKED - ATH		ENGINEER OF STRUCTURAL SERVICES					88	(195-3B-4)BDR	WHITESIDE	34	32	
DRAWN - STEFFEN	PASSED		REVISED -				CONTRACT NO. 64P94					
CHECKED - SMR ATH		ENGINEER OF BRIDGES AND STRUCTURES	REVISED -				SHEET NO. 11 OF 14 SHEETS					



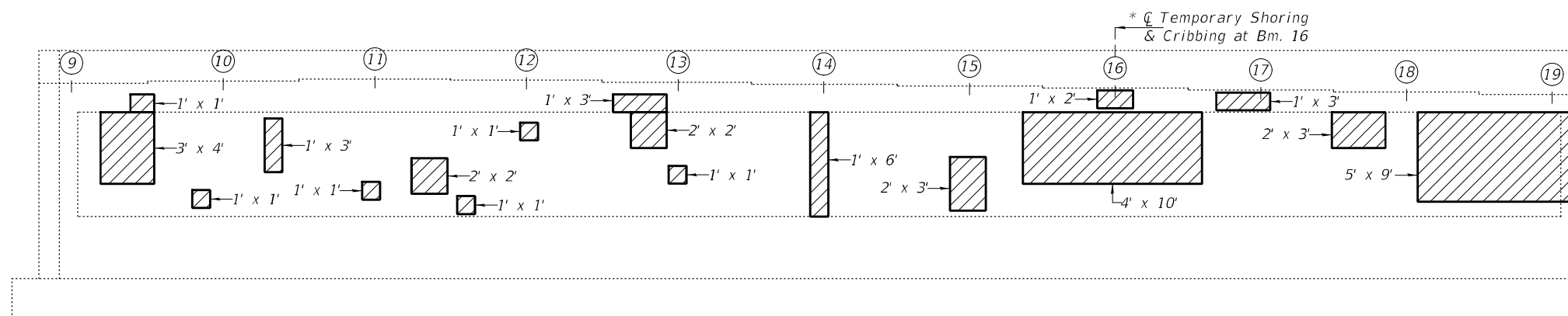
WEST ABUTMENT ELEVATION
SN 098-0084 (E.B.)
(Looking West)

REACTION TABLE AT TEMPORARY SHORING	
\bar{Q} (k)	16.2
\bar{L} (k)	30.0
Imp. (k)	9.0
Total (k)	55.2

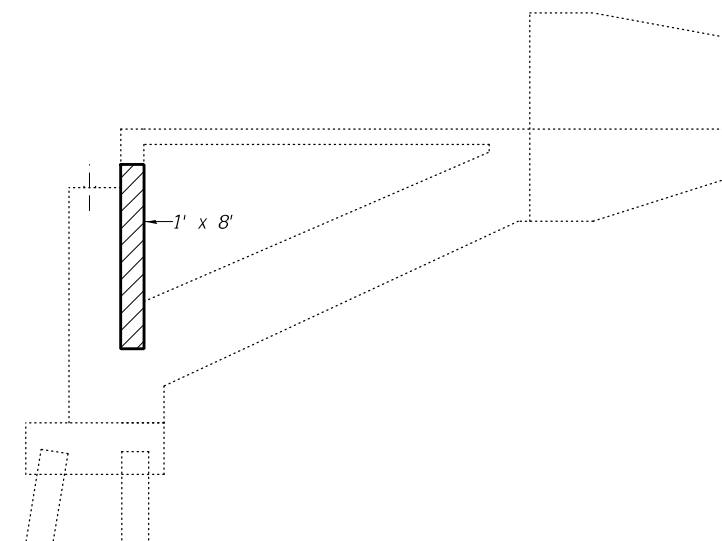
* For Temporary Shoring & Cribbing
Details see sheet 14 of 14.



WEST ABUTMENT NORTH WINGWALL



EAST ABUTMENT ELEVATION
SN 098-0084 (E.B.)
(Looking East)



EAST ABUTMENT SOUTH WINGWALL

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Structural Repair of Concrete (Depth \leq 5 inches)	Sq. Yd.	343
Temporary Shoring & Cribbing	Each	2

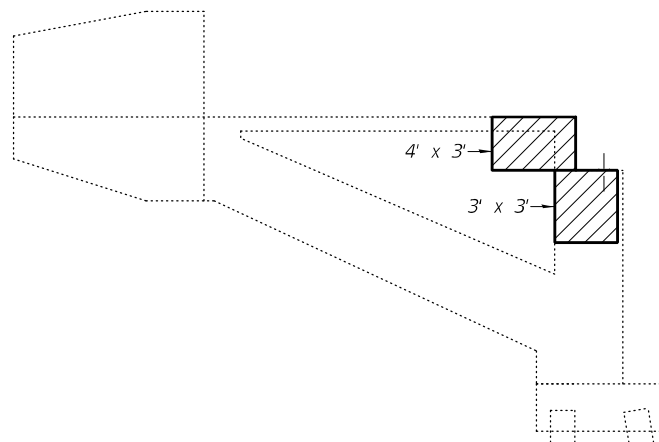
DESIGNED - SMR	EXAMINED	DATE - APRIL 21, 2021
CHECKED - ATH	PASSED	REVISED -
DRAWN - STEFFEN		REVISED -
CHECKED - SMR ATH		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

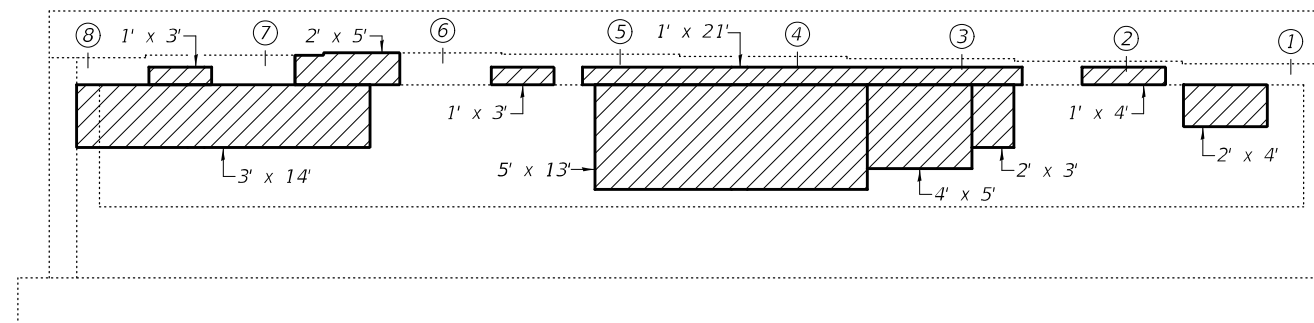
SUBSTRUCTURE REPAIR DETAILS
SN 098-0084 (E.B.)

SHEET NO. 12 OF 14 SHEETS

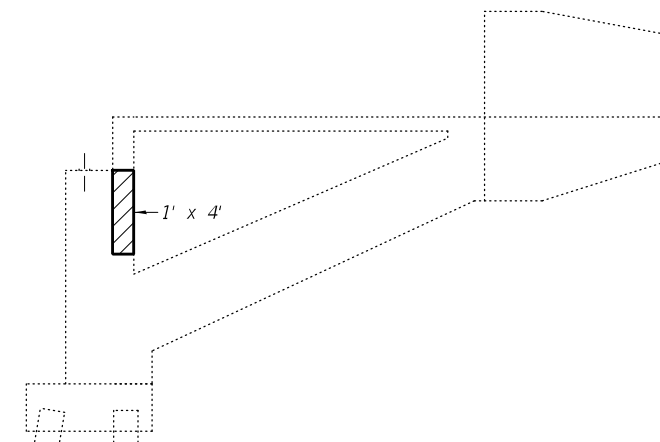
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
88	(195-3B-4)BDR	WHITESIDE	34	33
CONTRACT NO. 64P94				
ILLINOIS FED. AID PROJECT				



WEST ABUTMENT SOUTH WINGWALL



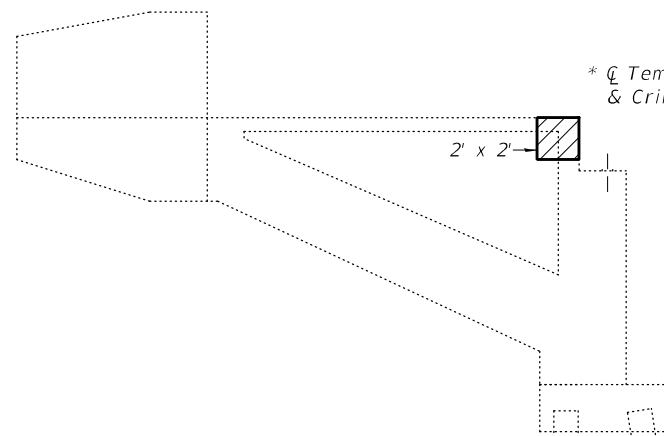
WEST ABUTMENT ELEVATION
SN 098-0085 (W.B.)
(Looking West)



WEST ABUTMENT NORTH WINGWALL

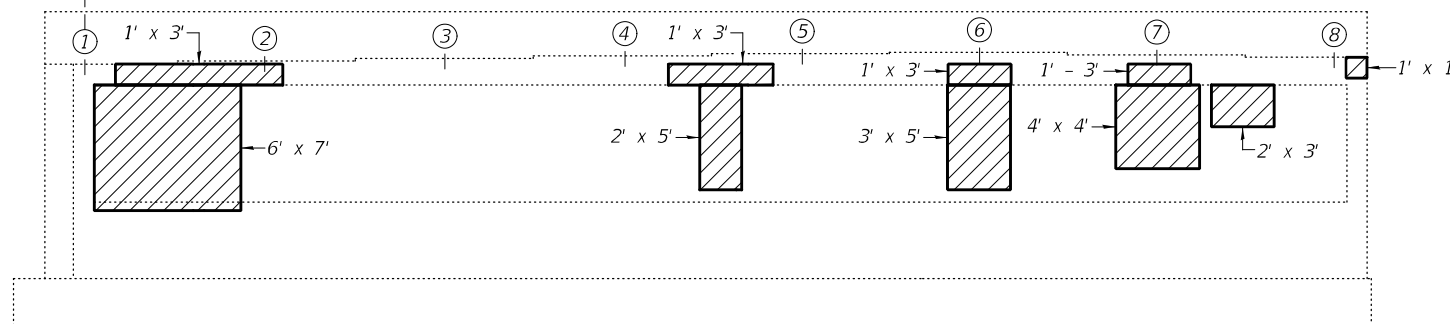
REACTION TABLE AT TEMPORARY SHORING			
\bar{Q}	(k)	16.2	
\bar{L}	(k)	30.0	
Imp.	(k)	9.0	
Total	(k)	55.2	

* For Temporary Shoring & Cribbing
Details see sheet 14 of 14.

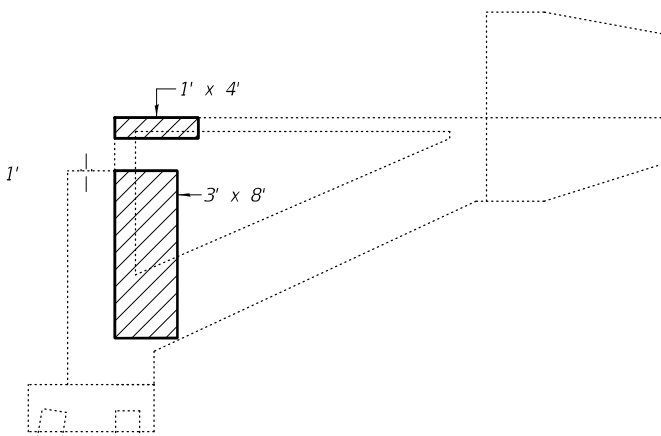


EAST ABUTMENT NORTH WINGWALL

* \bar{Q} Temporary Shoring
& Cribbing at Bm. 1



EAST ABUTMENT ELEVATION
SN 098-0085 (W.B.)
(Looking East)



EAST ABUTMENT SOUTH WINGWALL

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Structural Repair of Concrete (Depth \leq 5 inches)	Sq. Yd.	337
Temporary Shoring & Cribbing	Each	1

DESIGNED - SMR	EXAMINED	DATE - APRIL 21, 2021
CHECKED - ATH		
DRAWN - STEFFEN	PASSED	REVISED -
CHECKED - SMR ATH		REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

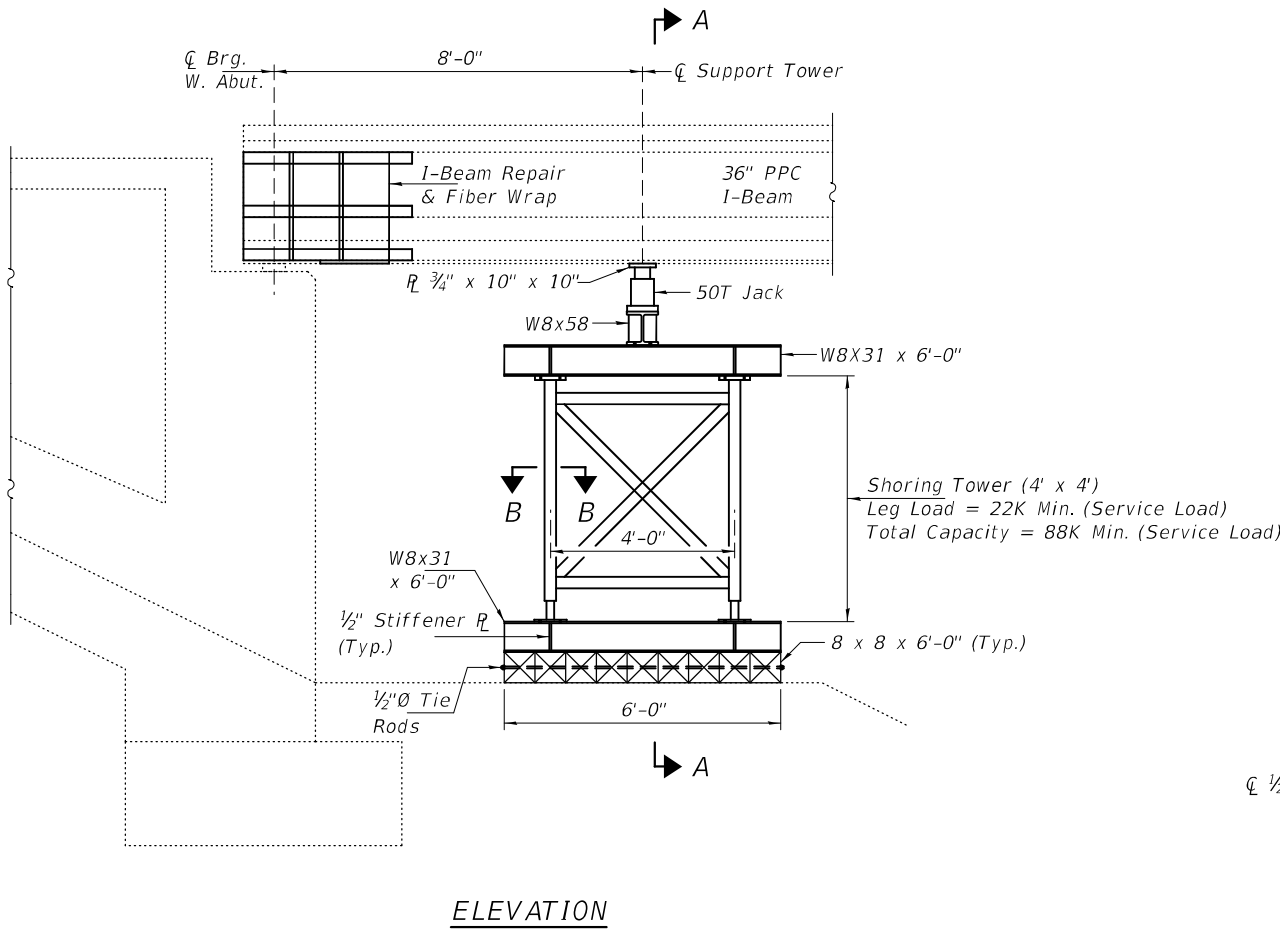
SUBSTRUCTURE REPAIR DETAILS
SN 098-0085 (W.B.)

SHEET NO. 13 OF 14 SHEETS

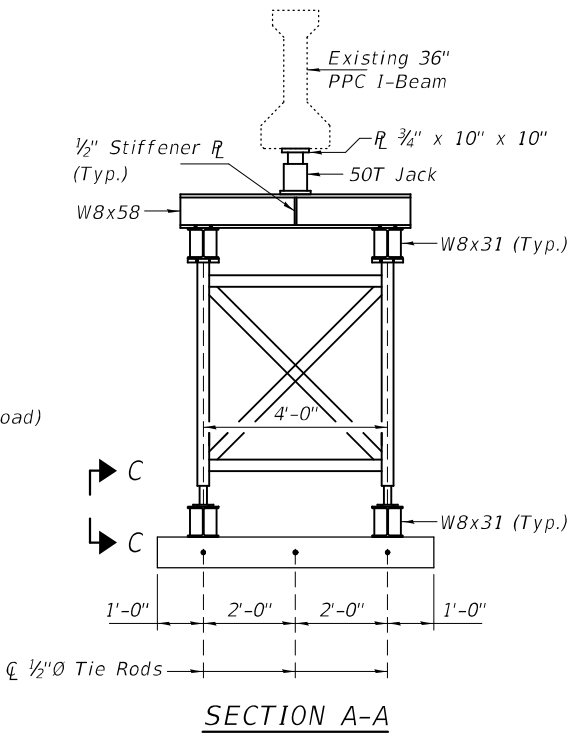
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
88	(195-3B-4)BDR	WHITESIDE	34	34
CONTRACT NO. 64P94				
ILLINOIS FED. AID PROJECT				

NOTES

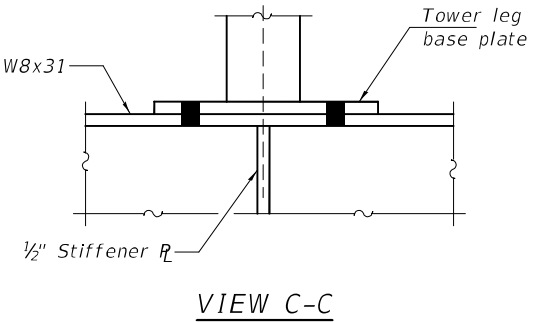
Jack must be properly secured to support beam and centered directly under the web of the girder being jacked.
Jack must have a locking mechanism that will allow the removal of the hydraulic pressure after reaching desired lift.
If the Contractor chooses an equivalent shoring tower, specifications shall be submitted for approval prior to use.
Fasteners shall be high strength bolts. Bolts $\frac{3}{4}$ " \varnothing , open holes $1\frac{3}{16}$ " \varnothing .
All structural steel shall conform to AASHTO Classification M-270 Gr. 36, unless otherwise note.
Connections between all elements are to be bolted.
Beam load must remain on shoring tower until the concrete on the abutment repairs and PPC I-Beam repairs are fully cured.



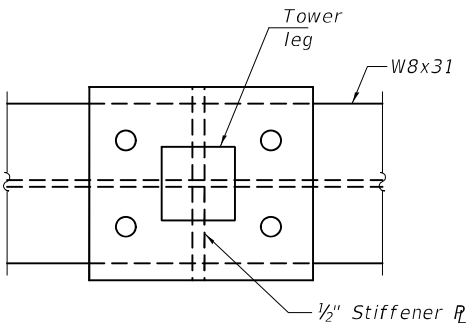
ELEVATION



SECTION A-A



VIEW C-C



SECTION B-B

Connection between tower leg plate and W8x31 section per tower manufacturer recommendations.

DESIGNED - SMR	EXAMINED	DATE - APRIL 21, 2021
CHECKED - ATH		
DRAWN - STEFFEN	PASSED	REVISED -
CHECKED - SMR ATH		REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY SHORING AND CRIBBING DETAILS
SN 098-0084 (E.B.) & -0085 (W.B.)

SHEET NO. 14 OF 14 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
88	(195-3B-4)BDR	WHITESIDE	34	34A
CONTRACT NO. 64P94				
ILLINOIS FED. AID PROJECT				