

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	FAI 290 22 BJ	DUPAGE	35	1
		ILLINOIS	CONTRACT NO. 62T96	

* 35 + 6 = 41 TOTAL SHEETS

FOR INDEX OF SHEETS, SEE SHEET NO. 2

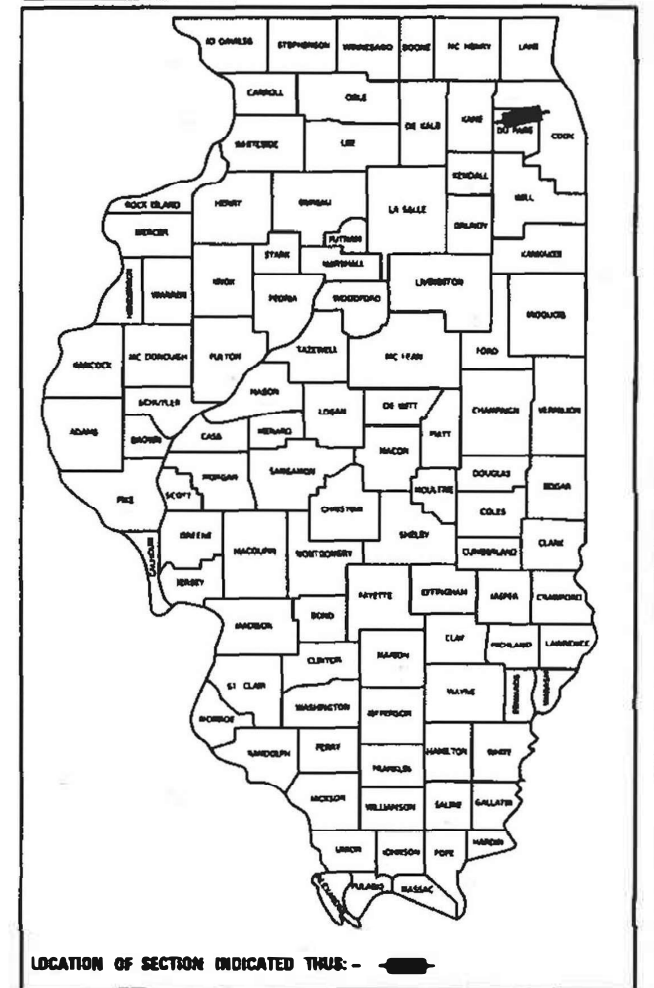
PROPOSED
HIGHWAY PLANS

FAI ROUTE 290 (I-290)
SECTION FAI 290 22 BJ
BRIDGE JOINT REPAIR (SN: 022-0094)
DUPAGE COUNTY

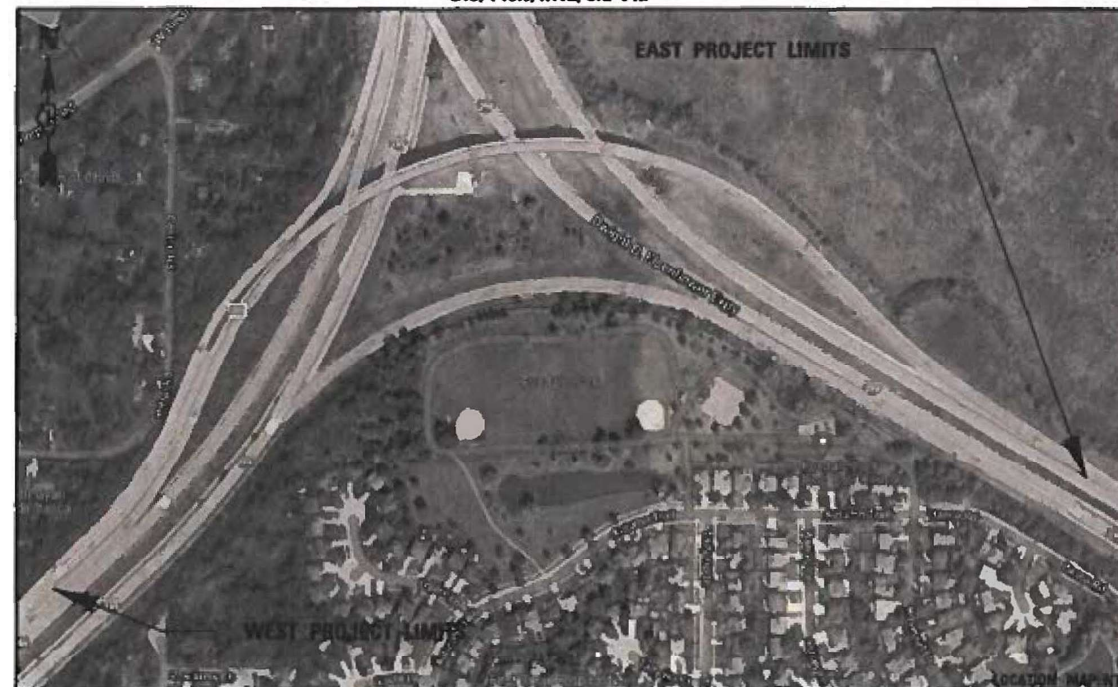
C-91-319-22

S18, T40N, R11E, 3rd PM

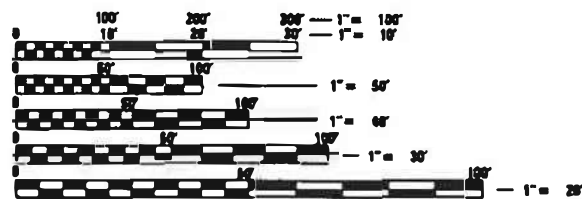
THE PROJECT IS LOCATED IN THE VILLAGE OF ADDISON D-91-265-22



FUNCTIONAL CLASS: INTERSTATE
DESIGN SPEED: 55 MPH
POSTED SPEED: 55 MPH
ADT: 23,100
HV %: 8.75%



GROSS/NET LENGTH = 4,028 FT. = 0.76 MILE



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 EXCAVATORS
1-800-892-0123
OR 811

PROJECT ENGINEER: PRAVEEN KAINI, P.E. 847-705-4237
PROJECT MANAGER: J. ALAIN MIDY, P.E. 847-221-3056

CONTRACT NO. 62T96

TyLin
200 S. WACKER DR. SUITE 1400
CHICAGO, IL 60606
TEL: 312-777-2900

MARK P. GORMEY
062-058109
REGISTERED PROFESSIONAL ENGINEER OF ILLINOIS
Expires: 11/30/2023
Date: 10/21/2022
For Sheets: 1-14

STEPHEN J. LONG
081-008088
REGISTERED PROFESSIONAL ENGINEER OF ILLINOIS
Expires: 11/30/2024
Date: 10/21/2022
For Sheets: 15-35

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED October 26, 2022
Jose Rios REGIONAL ENGINEER
December 9, 2022
SAE. ETS
ENGINEER OF DESIGN AND ENVIRONMENT
December 9, 2022
Stephen M. Smith
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

* = SPECIALTY ITEM

CODE NO.	ITEM	UNIT	URBAN	
			TOTAL QUANTITY	BRIDGE SN 022-0094
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	3562	3562
70307120	TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE IV TAPE	FOOT	10686	10686
70400100	TEMPORARY CONCRETE BARRIER	FOOT	600	600
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	375	375
70600250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2	2
70600260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	1	1
70600332	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	1	1
70600350	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2	2
* 78008210	POLYUREA URETHANE PAVEMENT MARKING TYPE I - LINE 4"	FOOT	3121	3121
* 78008220	POLYUREA URETHANE PAVEMENT MARKING TYPE I - LINE 5"	FOOT	884	884
* 78008240	POLYUREA URETHANE PAVEMENT MARKING TYPE I - LINE 8"	FOOT	2128	2128
* 78008250	POLYUREA URETHANE PAVEMENT MARKING TYPE I - LINE 12"	FOOT	588	588
78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	2519	2519
* 78009005	MODIFIED URETHANE PAVEMENT MARKING - LINE 5"	FOOT	315	315
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	178	178
* 78200011	BARRIER WALL REFLECTORS, TYPE C	EACH	78	78
* 78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	4389	4389

100% STATE

0047

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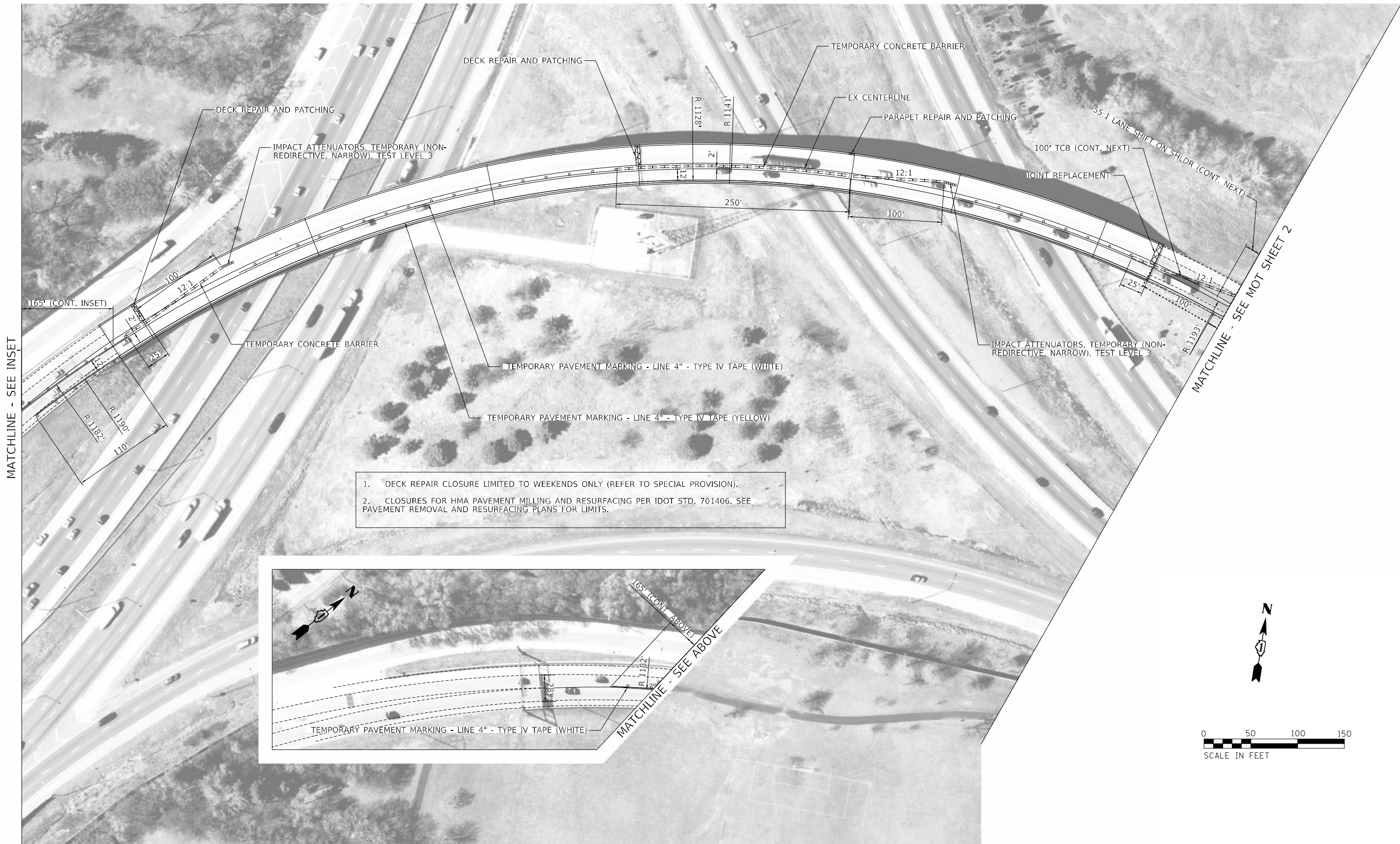
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-290 WB TO I-355 SB RAMP REPAIR
SUMMARY OF QUANTITIES

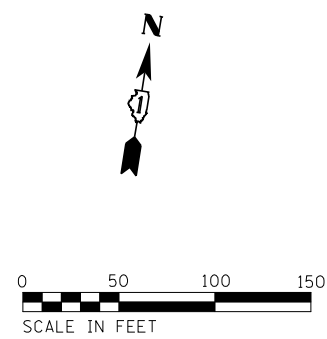
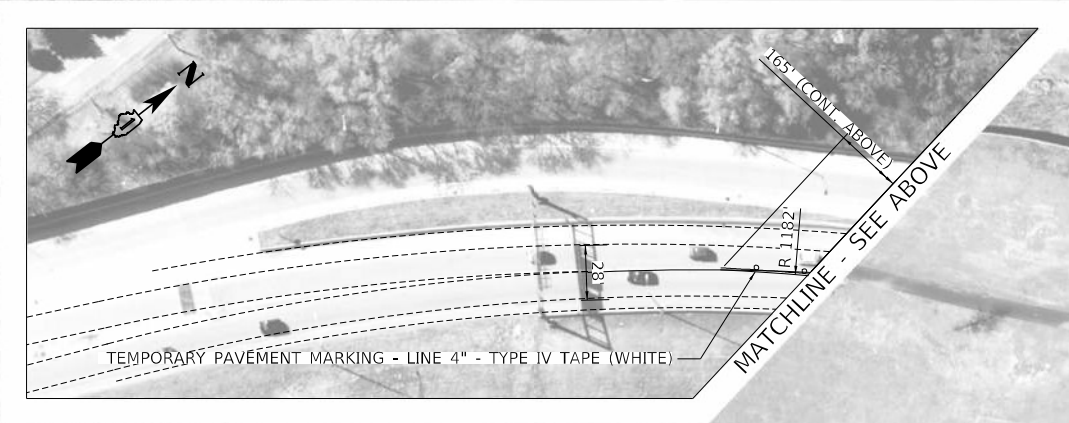
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	FAI 290 22 BJ	DUPAGE	35	4
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62T96	

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1. DECK REPAIR CLOSURE LIMITED TO WEEKENDS ONLY (REFER TO SPECIAL PROVISION).
2. CLOSURES FOR HMA PAVEMENT MILLING AND RESURFACING PER IDOT STD. 701406. SEE PAVEMENT REMOVAL AND RESURFACING PLANS FOR LIMITS.



TYlin
 200 S. WACKER DR. SUITE 1400
 CHICAGO, IL 60606
 TEL: 312-777-2900

USER NAME = \$USERS	DESIGNED - BLG	REVISED -
PLOT SCALE = \$SCALES	DRAWN - BLG	REVISED -
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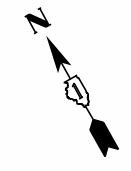
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**I-290 WB TO I-355 SB RAMP REPAIR
 MOT STAGE 1**

SCALE: 1:50 SHEET 1 OF 6 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	FAI 290 22 BJ	DUPAGE	35	6
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62T96	

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**I-290 WB TO I-355 SB RAMP REPAIR
 MOT STAGE 1**

SCALE: 1:50 SHEET 2 OF 6 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	FAI 290 22 BJ	DUPAGE	35	7
CONTRACT NO. 62T96				
ILLINOIS FED. AID PROJECT				

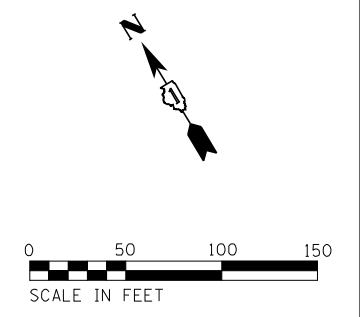
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MATCHLINE - SEE MOT SHEET 2



MATCHLINE - SEE BELOW

MATCHLINE - SEE ABOVE



TYLin
200 S. WACKER DR. SUITE 1400
CHICAGO, IL 60606
TEL: 312-777-2900

USER NAME = \$USER\$	DESIGNED - BLG	REVISED -
PLOT SCALE = \$SCALE\$	DRAWN - BLG	REVISED -
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	DATE - 10/24/2022	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

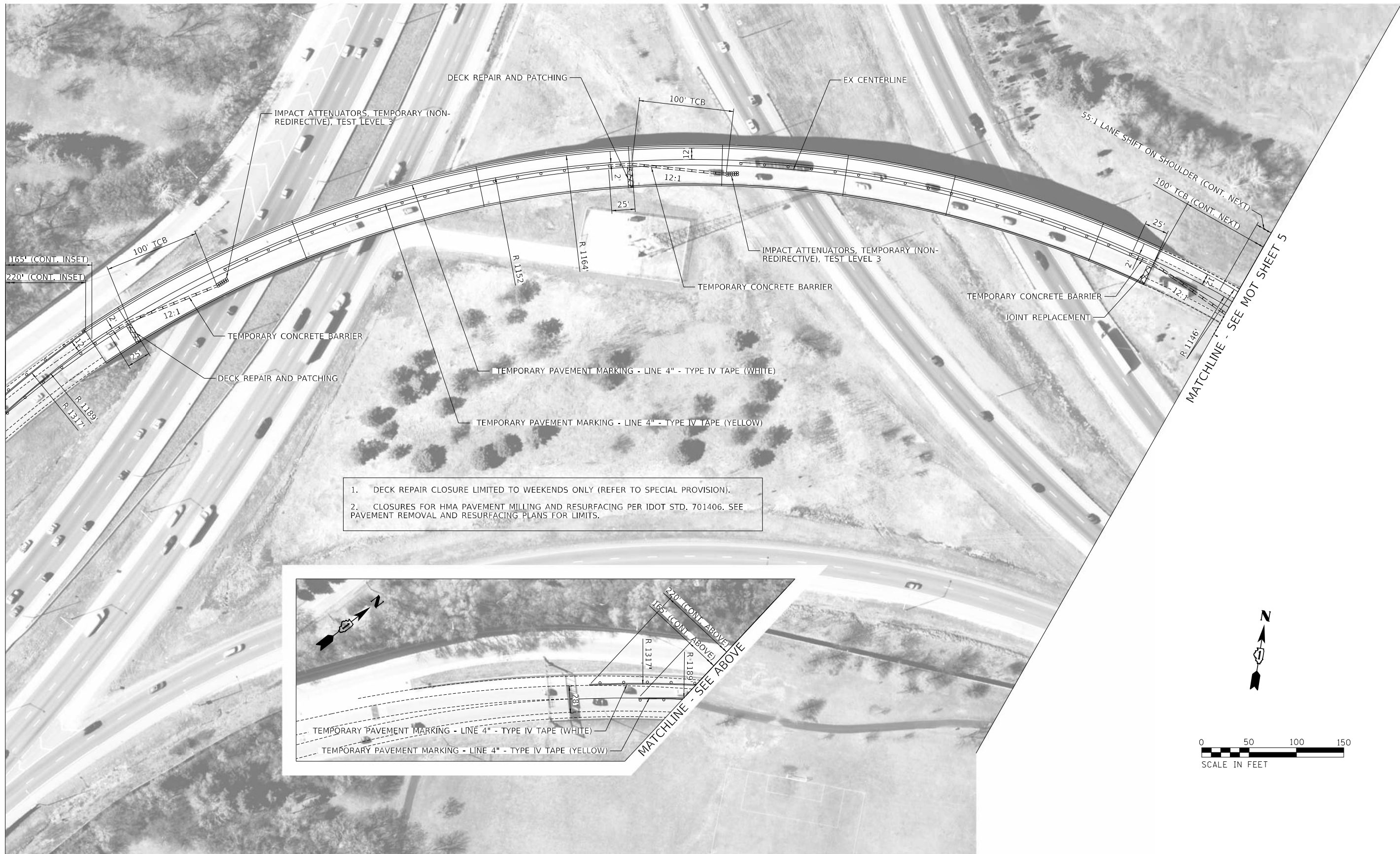
**I-290 WB TO I-355 SB RAMP REPAIR
MOT STAGE 1**

SCALE: 1:50 SHEET 3 OF 6 SHEETS STA. TO STA.

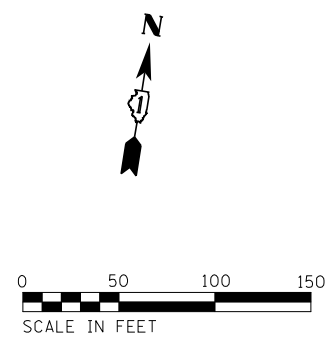
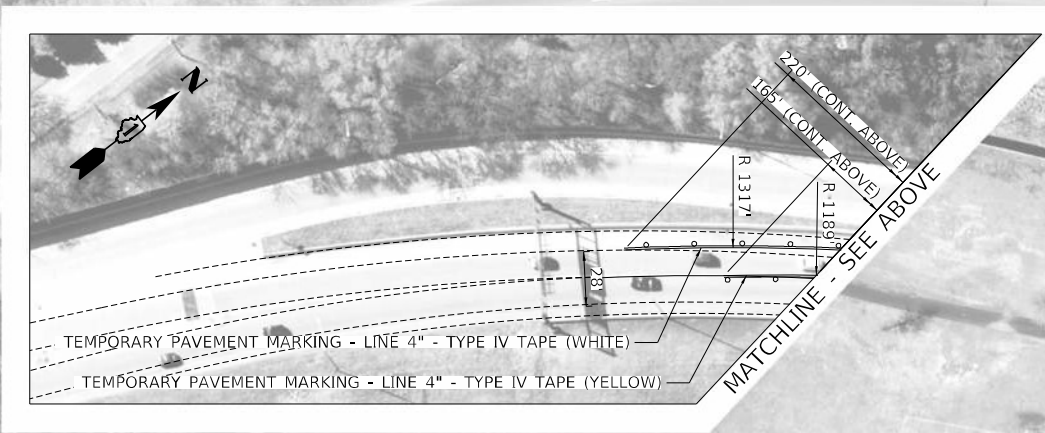
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ILLINOIS FED. AID PROJECT			CONTRACT NO. 62T96	

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 USER: blg

MATCHLINE - SEE INSET



1. DECK REPAIR CLOSURE LIMITED TO WEEKENDS ONLY (REFER TO SPECIAL PROVISION).
2. CLOSURES FOR HMA PAVEMENT MILLING AND RESURFACING PER IDOT STD. 701406. SEE PAVEMENT REMOVAL AND RESURFACING PLANS FOR LIMITS.



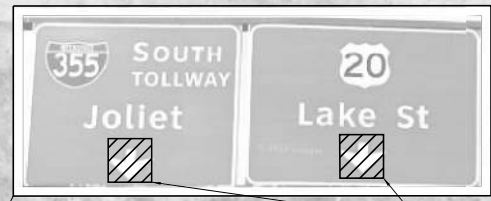
TYLin
 200 S. WACKER DR. SUITE 1400
 CHICAGO, IL 60606
 TEL: 312-777-2900

USER NAME = \$USERS	DESIGNED - BLG	REVISED -
PLOT SCALE = \$SCALES	DRAWN - BLG	REVISED -
PLOT DATE = 11/30/2022	CHECKED - MPG	REVISED -
	DATE - 10/24/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-290 WB TO I-355 SB RAMP REPAIR			
MOT STAGE 2			
SCALE: 1:50	SHEET 4	OF 6 SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	FAI 290 22 BJ	DUPAGE	35	8
CONTRACT NO. 62T96				
ILLINOIS FED. AID PROJECT				



TEMPORARY SIGN PANEL OVERLAYS (3 FT X 3FT)
(INSTALLED IN STAGE 1)

55:1 LANE SHIFT ON SHOULDER (CONT. PREVIOUS)

500' LANE SHIFT (PER TC-09)

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

MATCHLINE - SEE MOT SHEET 4

100' TCB (CONT. PREVIOUS)

835' (CONT. NEXT)

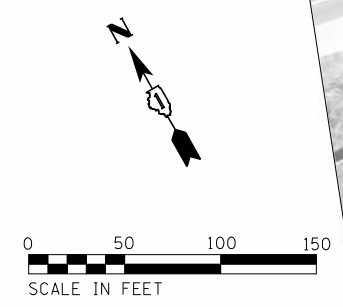
TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE IV TAPE (WHITE)

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

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

TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE IV TAPE (WHITE)
INSTALLED IN STAGE 1

MATCHLINE - SEE MOT SHEET 6



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TYlin
200 S. WACKER DR. SUITE 1400
CHICAGO, IL 60606
TEL: 312-777-2900

USER NAME = \$USERS	DESIGNED - BLG	REVISED -
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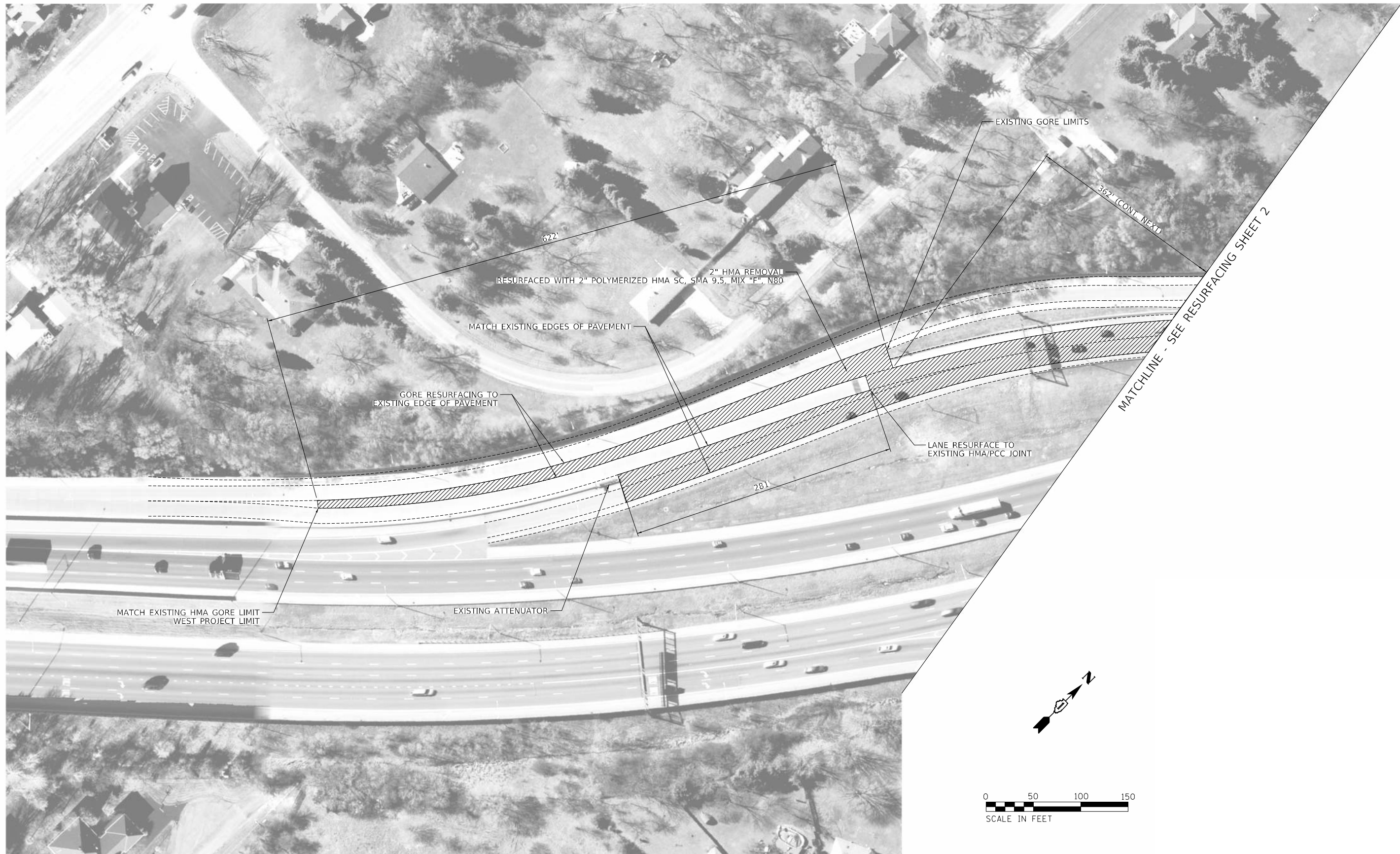
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**I-290 WB TO I-355 SB RAMP REPAIR
MOT STAGE 2**

SCALE: 1:50 SHEET 5 OF 6 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	FAI 290 22 BJ	DUPAGE	35	9
CONTRACT NO. 62T96				
ILLINOIS FED. AID PROJECT				

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MATCHLINE - SEE RESURFACING SHEET 2

TYlin
 200 S. WACKER DR. SUITE 1400
 CHICAGO, IL 60606
 TEL: 312-777-2900

USER NAME = \$USERS
 PLOT SCALE = \$SCALES
 PLOT DATE = 11/30/2022

DESIGNED - BLG
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 DATE - 10/24/2022

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 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**I-290 WB TO I-355 SB RAMP REPAIR
 PAVEMENT REMOVAL AND RESURFACING**
 SCALE: SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	FAI 290 22 BJ	DUPAGE	35	10
CONTRACT NO. 62T96				
ILLINOIS FED. AID PROJECT				

NOTES:
 1. ALL PAVEMENT MARKINGS TO BE REMOVED SHALL BE "PAVEMENT MARKING REMOVAL - WATER BLASTING"
 2. ALL REPLACEMENT PAVEMENT MARKINGS ON EXISTING OR PROPOSED HMA SURFACES SHALL BE "THERMOPLASTIC PAVEMENT MARKING - LINE" OF THE COLOR AND WIDTH SPECIFIED.
 3. ALL REPLACEMENT PAVEMENT MARKINGS ON PCC PAVEMENT SURFACES SHALL BE "MODIFIED URETHANE PAVEMENT MARKING - LINE" OF THE COLOR AND WIDTH SPECIFIED.

EXISTING RAISED REFLECTIVE PAVEMENT REFLECTOR TO BE REMOVED;
 PROPOSED RAISED REFLECTOR

EXISTING 5" WHITE LANE LINE (10' DASH, 30' SKIP) WITH RRPM TO BE REMOVED;
 PROPOSED 5" WHITE LANE LINE (10' DASH, 30' SKIP) WITH RRPM

EXISTING 4" WHITE SOLID LINE TO BE REMOVED;
 PROPOSED 4" WHITE SOLID LINE

EXISTING 4" YELLOW SOLID LINE TO BE REMOVED;
 PROPOSED 4" YELLOW SOLID LINE

MATCHLINE - SEE PMK SHEET 1

MATCHLINE - SEE PMK SHEET 3



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TYlin
 200 S. WACKER DR. SUITE 1400
 CHICAGO, IL 60606
 TEL: 312-777-2900

USER NAME = \$USERS	DESIGNED - BLG	REVISED -
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PLOT DATE = 12/1/2022	DATE - 10/24/2022	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**I-290 WB TO I-355 SB RAMP REPAIR
 EXISTING AND PROPOSED PAVEMENT MARKING**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	FAI 290 22 BJ	DUPAGE	35	13
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62T96	

NOTES:
 1. ALL PAVEMENT MARKINGS TO BE REMOVED SHALL BE "PAVEMENT MARKING REMOVAL - WATER BLASTING"
 2. ALL REPLACEMENT PAVEMENT MARKINGS ON EXISTING OR PROPOSED HMA SURFACES SHALL BE "THERMOPLASTIC PAVEMENT MARKING - LINE" OF THE COLOR AND WIDTH SPECIFIED.
 2. ALL REPLACEMENT PAVEMENT MARKINGS ON PCC PAVEMENT SURFACES SHALL BE "MODIFIED URETHANE PAVEMENT MARKING - LINE" OF THE COLOR AND WIDTH SPECIFIED.

EXISTING 5" WHITE LANE LINE (10' DASH, 30' SKIP) WITH RRPM TO BE REMOVED;
 PROPOSED 5" WHITE LANE LINE (10' DASH, 30' SKIP) WITH RRPM

EXISTING 4" WHITE SOLID LINE TO BE REMOVED;
 PROPOSED 4" WHITE SOLID LINE

EXISTING RAISED REFLECTIVE PAVEMENT
 MARKER TO BE REMOVED;
 PROPOSED REPLACEMENT REFLECTOR

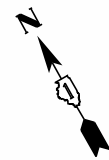
EXISTING 4" YELLOW SOLID LINE TO BE REMOVED;
 PROPOSED 4" YELLOW SOLID LINE

MATCH INTO EXISTING 4" WHITE SOLID LINE

MATCH INTO EXISTING 8" WHITE SOLID GORE LINE

MATCHLINE - SEE PMK SHEET 2

MATCHLINE - SEE PMK SHEET 4



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TYlin
 200 S. WACKER DR. SUITE 1400
 CHICAGO, IL 60606
 TEL: 312-777-2900

USER NAME = \$USERS	DESIGNED - BLG	REVISED -
DRAWN - BLG	CHECKED - MPG	REVISED -
PLOT SCALE = \$SCALE\$	DATE - 10/24/2022	REVISED -
PLOT DATE = 12/1/2022		

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**I-290 WB TO I-355 SB RAMP REPAIR
 EXISTING AND PROPOSED PAVEMENT MARKING**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	FAI 290 22 BJ	DUPAGE	35	14
CONTRACT NO. 62T96				
ILLINOIS FED. AID PROJECT				

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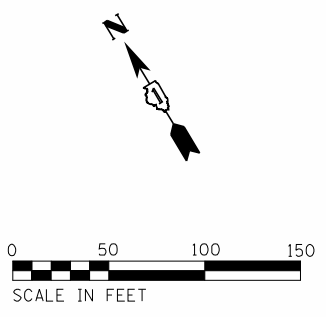
MATCHLINE - SEE PMK SHEET 3

MATCHLINE - SEE BELOW



MATCHLINE - SEE ABOVE

EAST PROJECT LIMIT



TYlin
 200 S. WACKER DR. SUITE 1400
 CHICAGO, IL 60606
 TEL: 312-777-2900

USER NAME = \$USERS	DESIGNED - BLG	REVISED -
DRAWN - BLG	CHECKED - MPG	REVISED -
PLOT SCALE = \$SCALE\$	DATE - 10/24/2022	REVISED -
PLOT DATE = 12/1/2022		

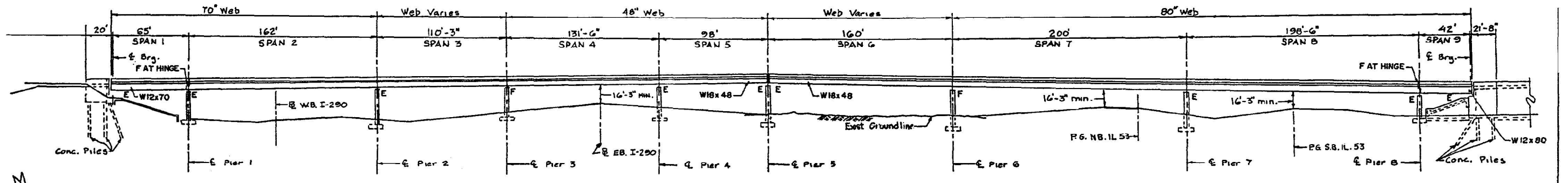
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-290 WB TO I-355 SB RAMP REPAIR
EXISTING AND PROPOSED PAVEMENT MARKING

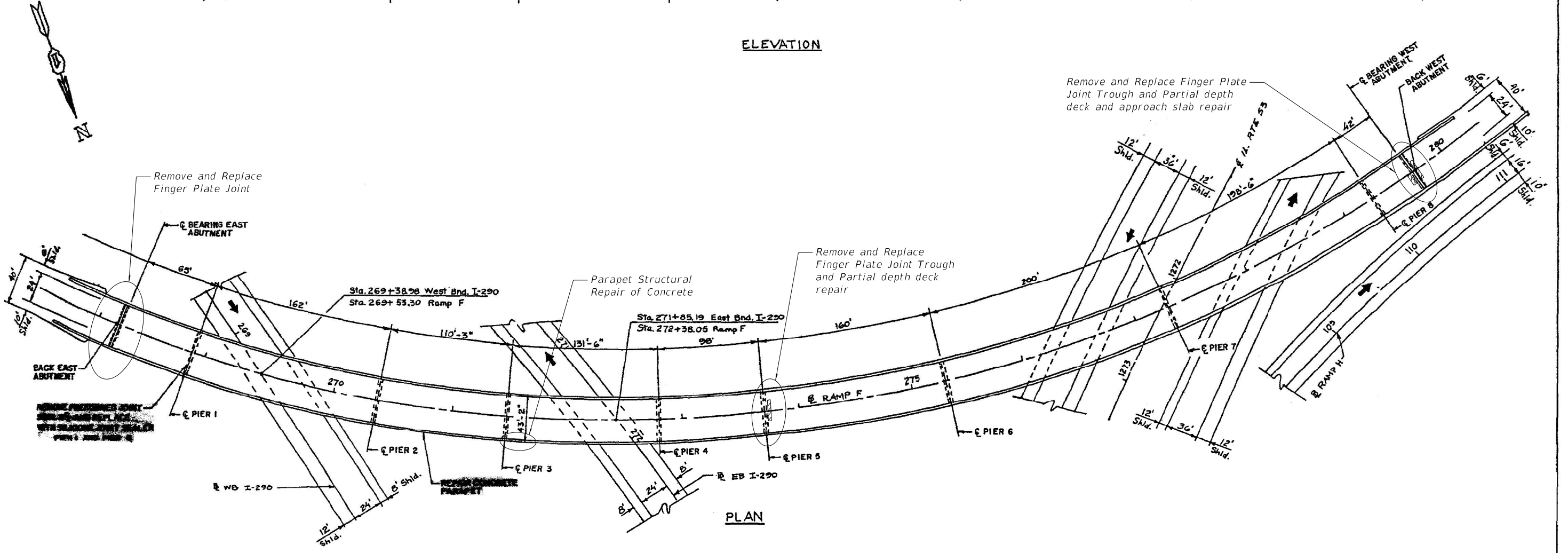
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	FAI 290 22 BJ	DUPAGE	35	14A
CONTRACT NO. 62T96				
ILLINOIS FED. AID PROJECT				

EXISTING GENERAL PLAN AND ELEVATION
PROVIDED FOR INFORMATION ONLY



ELEVATION



PLAN

DESIGN SPECIFICATIONS
2002 AASHTO Standard Specifications
for Highway Bridges, 17th Edition

DESIGN STRESSES
Field Units (New Const.)
f'c = 4,000 psi (Superstructure concrete)
fy = 60,000 psi (reinforcement)
fy = 50,000 psi (M270 Grade 50)

- SCOPE OF WORK**
1. Remove and Replace Finger Plate Joint at East Abutment.
 2. Repair bridge deck.
 3. Repair approach slab.
 4. Repair parapet damage.
 5. Clean Drainage Scuppers and Floordrains.
 6. Remove and replace Finger Plate Joint Troughs at Pier 5 and West Abutment.

Stephen J. Long, S.E. No. 081-008088
 Expires: 11/30/2024
 Date: 10/21/2022

ILLINOIS DEPARTMENT OF TRANSPORTATION
RAMP "F"
INTERSTATE 290 WEST BOUND.
TO INTERSTATE 355 SOUTH BOUND
GENERAL PLAN AND ELEVATION
S.N. 022-0094

REVISIONS	
NAME	DATE

SCALE: VERT. _____
 HORIZ. _____
 DATE AUGUST 1997

DRAWN BY /MVT
 CHECKED BY TMS

MODEL: Default
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 PROJECT: Phase II Vertical Design\Drawings\Structure\022-0094-01-01.dwg
 USER: stephen.j.long
 DATE: 10/24/2022

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200 S. WACKER DR. SUITE 1400
CHICAGO, IL 60606
TEL: 312-777-2900

USER NAME = stephen.long	DESIGNED - SJL	REVISED -
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	DATE 10/24/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
STRUCTURE NO. 022-0094
SHEET S-01 OF S-21 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	FAI 290 22 BJ	DUPAGE	35	15
CONTRACT NO. 62T96				
ILLINOIS FED. AID PROJECT				

GENERAL NOTES

Fasteners shall be ASTM F3125 A325 Type 1, mechanically galvanized bolts.
Bolts 3/4 in. Ø, holes 1 3/16 in. Ø, unless otherwise noted.

Expansion joints shall be AASHTO M 270 Grade 50.
No field welding is permitted except as specified in the contract documents.
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.

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.

The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.

Bridge Washing shall be limited to cleaning the existing bridge scuppers and floor drains. Additionally, the bridge deck shall also be cleaned including the debris within the teeth of the existing finger plate joints at Pier 5 and the West Abutment. The cleaning of the finger plate expansion joint at these locations shall be coordinated with the trough removal and replacement work associated with "Fabric Reinforced Elastomeric Trough."

The finger plates shall be flame cut as provided in Article 505.04(k) of the Standard Specification.

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.

Existing structural steel that will be in contact with new structural steel shall be cleaned and painted prior to erection as required by the Special Provision "Cleaning and Painting Contact Surface Areas of Existing Steel Structures."

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.

SHEET LIST

- S-01 General Plan And Elevation
- S-02 General Notes And Bill Of Material
- S-03 Stage Construction And Removal
- S-04 Finger Joint Details 1
- S-05 Finger Joint Details 2
- S-06 Finger Joint Details 3
- S-07 Bridge Deck Details
- S-08 Bridge Deck Repairs
- S-09 Bar Splicer Assembly And Mechanical Splicer Details
- S-10 Temporary Concrete Barrier
- S-11 Existing Plans
- S-12 Existing Plans
- S-13 Existing Plans
- S-14 Existing Plans
- S-15 Existing Plans
- S-16 Existing Plans
- S-17 Existing Plans
- S-18 Existing Plans
- S-19 Existing Plans
- S-20 Existing Plans
- S-21 Existing Plans

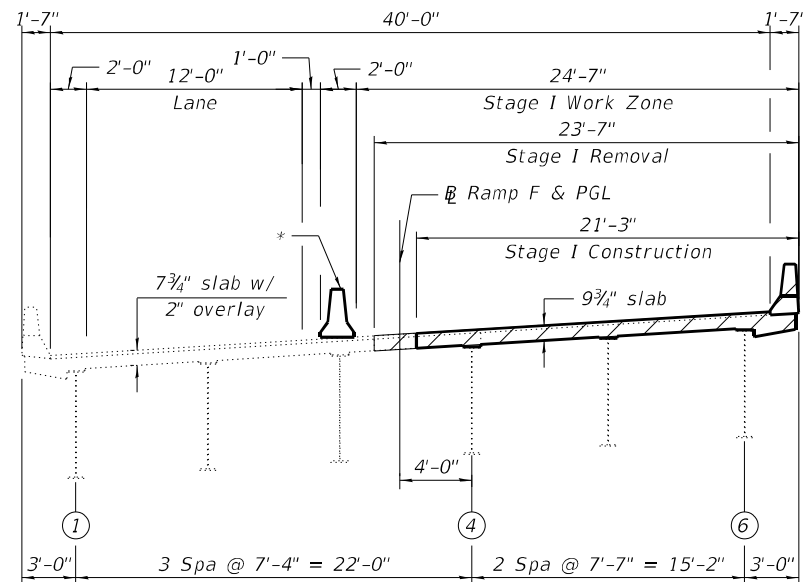
BILL OF MATERIAL

Item	Unit	Quantity
Concrete Removal	Cu. Yd.	8.7
Concrete Superstructure	Cu. Yd.	8.7
Bridge Deck Grooving	Sq. Yd.	11
Protective Coat	Sq. Yd.	13
Reinforcement Bars, Epoxy Coated	Pound	1,620
Bar Splicer	Each	16
Finger Plate Expansion Joint, 5"	Foot	40.0
Fabric Reinforced Elastomeric Trough	Foot	87.9
Approach Slab Repair (Partial Depth)	Sq. Yd.	3.2
Structural Repair of Concrete (Depth Greater Than 5 Inches)	Sq. Ft.	9.5
Deck Slab Repair (Partial)	Sq. Yd.	4.7
* Bridge Washing No. 1	Each	1

*See General Notes this sheet for discussion of Bridge Washing No. 1

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 200 S. WACKER DR. SUITE 1400
 CHICAGO, IL 60606
 TEL: 312-777-2900

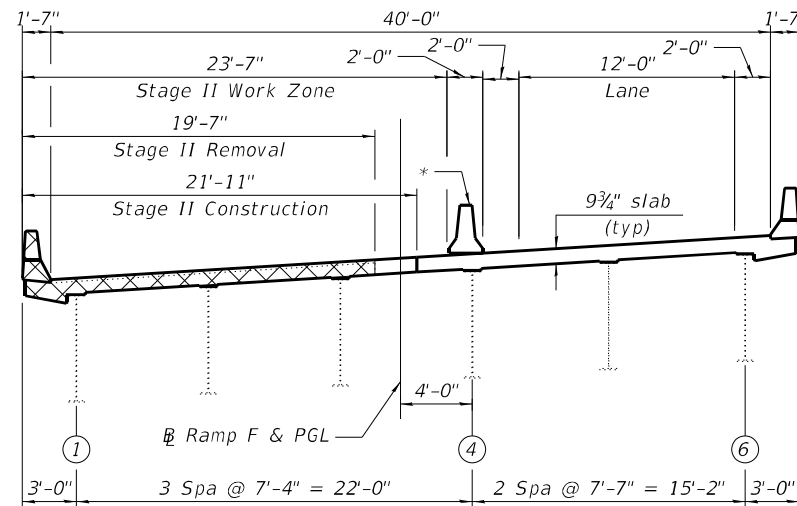
 200 S. WACKER DR. SUITE 1400 CHICAGO, IL 60606 TEL: 312-777-2900	USER NAME = vincent.scarpa	DESIGNED - SJL	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES AND BILL OF MATERIAL STRUCTURE NO. 022-0094	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 0:2.0000 " = 1" / in.	CHECKED - SP	REVISED -			290	FAI 290 22 BJ	DUPAGE	35	16
	PLOT DATE = 11/15/2022	DATE 10/24/2022	REVISED -			CONTRACT NO. 62T96				
						ILLINOIS FED. AID PROJECT				



STAGE I REMOVAL AND CONSTRUCTION

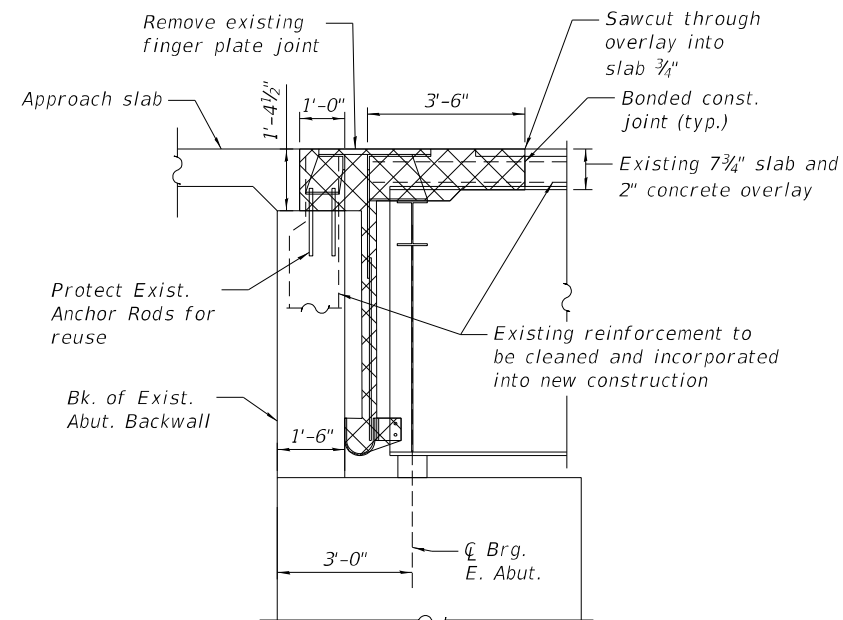
(at East Abutment)
(looking west)

* Temporary Concrete Barrier
See Std. 704001, typ.



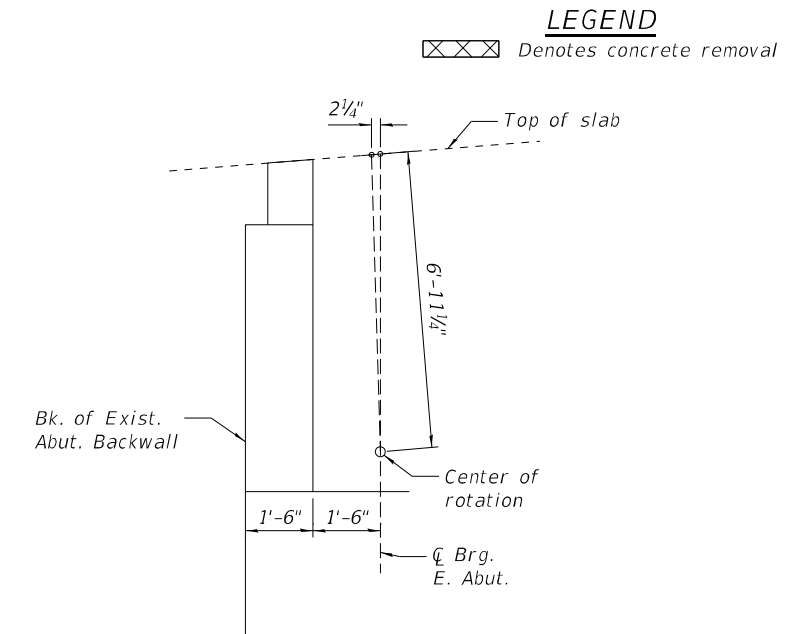
STAGE II REMOVAL AND CONSTRUCTION

(at East Abutment)
(looking west)

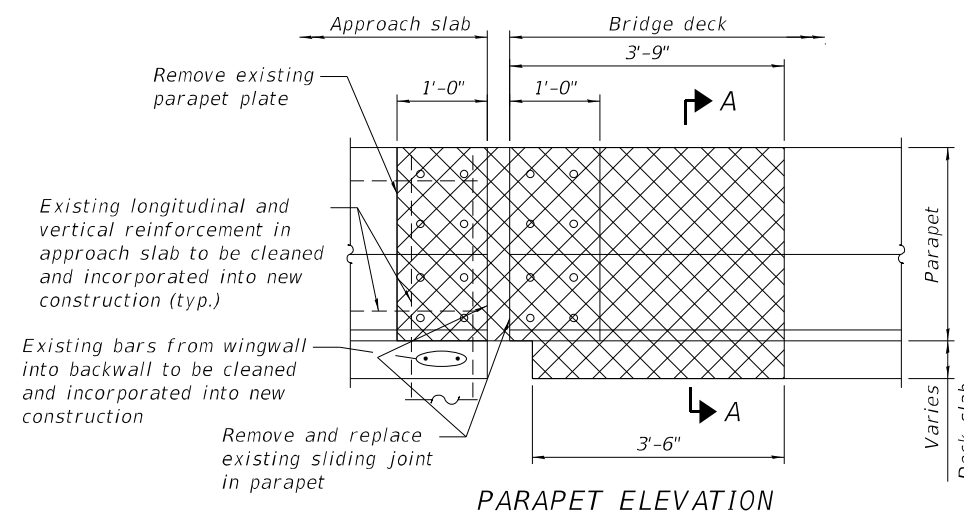


EXISTING EAST ABUTMENT SECTION

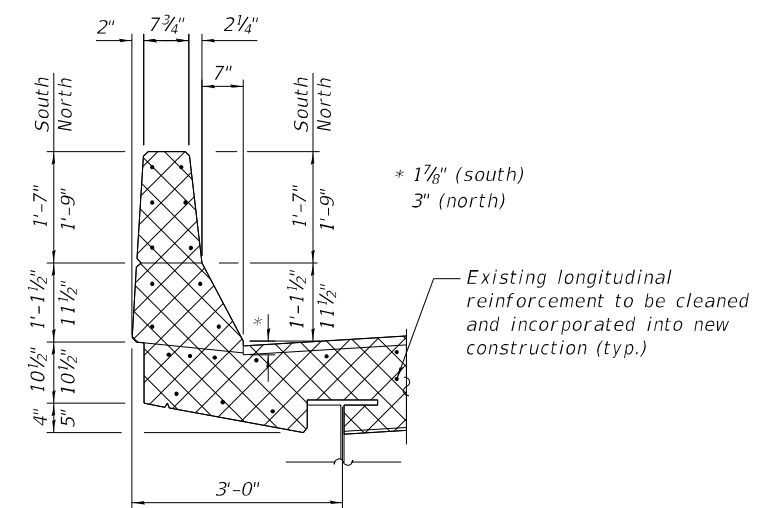
Removal of existing finger plate joint including stools, trough, parapet plates, etc. shall be included in the price of "Concrete Removal"



BEAM TILT AT BEARING



PARAPET ELEVATION



SECTION A-A

North parapet has an embedded 2 1/2"Ø PVC lighting conduit. Contractor shall take care not to damage the conduit or expansion coupling at expansion joint.

Notes:
Existing reinforcement shall be cleaned and incorporated into the new construction. Cost included with "Concrete Removal".

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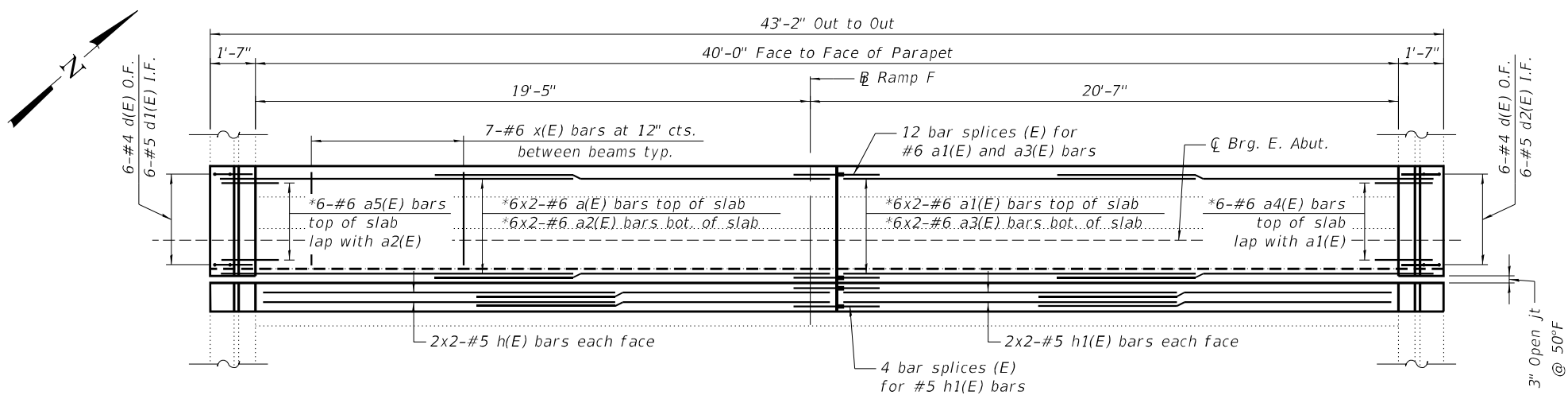
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PLOT DATE = 11/15/2022	CHECKED - SP	REVISED -
	DATE 10/24/2022	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGE CONSTRUCTION AND REMOVAL
STRUCTURE NO. 022-0094**

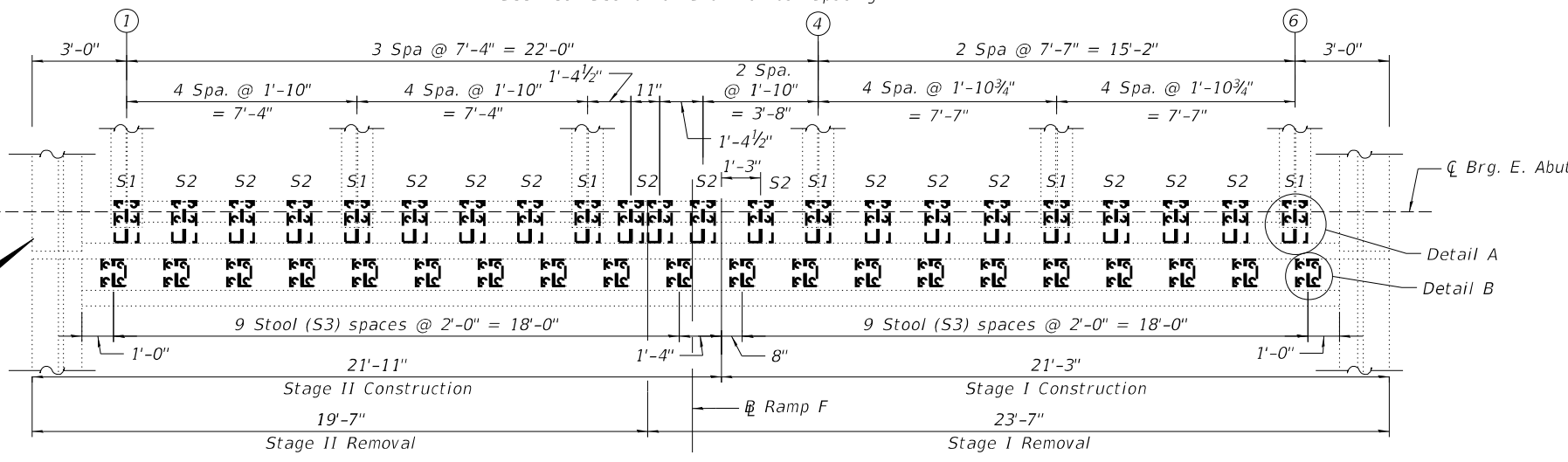
SHEET 5-03 OF 5-21 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62T96				
ILLINOIS FED. AID PROJECT				



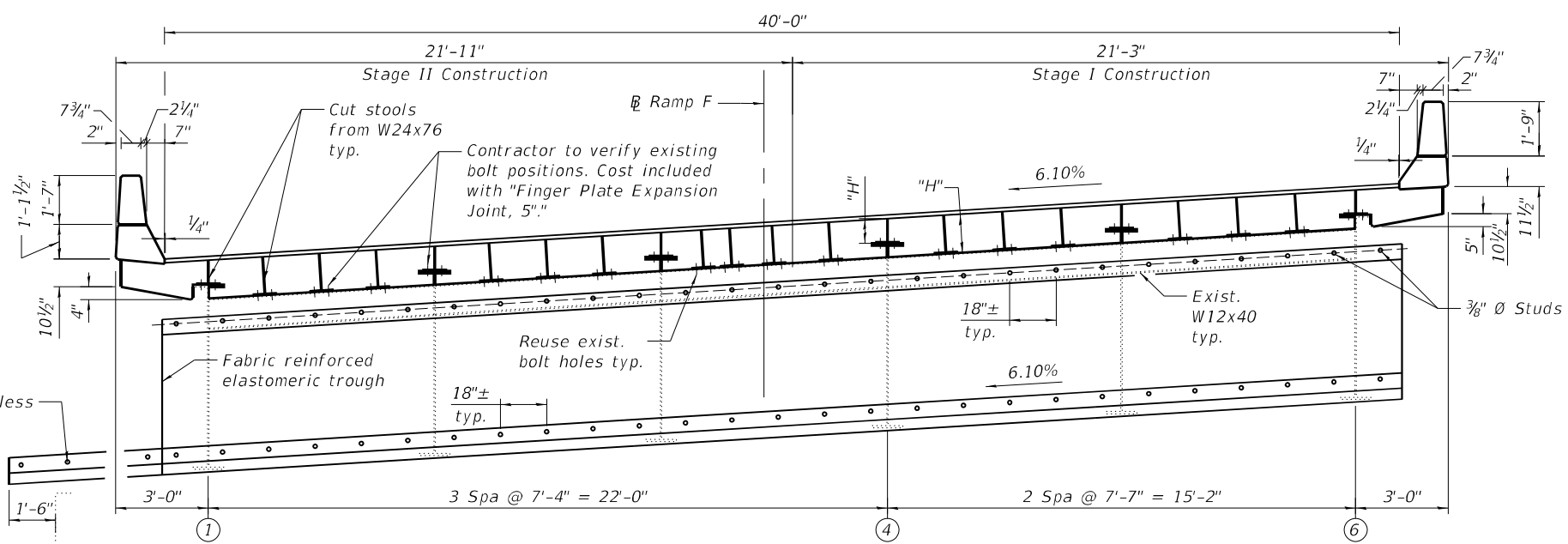
PLAN

* See Deck Section on S-07 for bar spacing.



PLAN

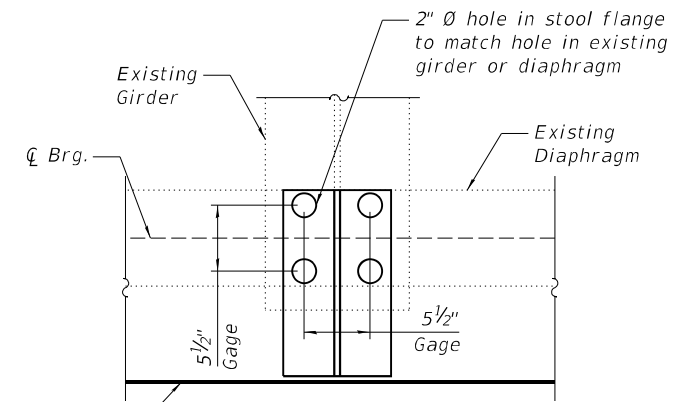
(Showing Proposed Stools)



ELEVATION

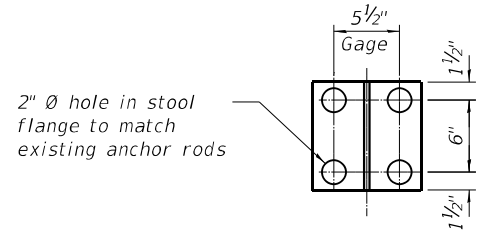
BILL OF MATERIAL		
ITEM	UNIT	QUANTITY
Finger Plate Expansion Joint, 5"	Foot	40.0

Min. Lap
 #5 bar = 3'-6"
 #6 bar = 4'-10"



DETAIL A

(typ. at girder and diaphragm)



DETAIL B

(typ. at abutment)

Notes:
 Proposed stool spacing matches existing stool spacing.
 The structural steel plates of the barrier sliding plate assemblies shall conform to the requirements of AASHTO M270 Grade 50, and hot-dipped galvanized according to ASHTO M111 after fabrication.
 Countersunk bolts shall be in accordance with ASTM A307, Grade A.
 Countersunk bolts and concrete inserts shall be hot-dipped galvanized according to AASHTO M232.
 Cost for furnishing and installing barrier sliding plate assemblies shall be included in the cost of "Finger Plate Expansion Joint, 5".
 Apply anti-seize compound to all countersunk bolts and anchors in parapet embedded plate.
 AASHTO M270 Grade 50 (CVN) steel shall be used for the finger plates and attachments.
 The contractor shall furnish steel shim plates including one 1/2" shim, two 1/4" shims, one 1/8" shim, and one 1/16" shim for height adjustments at each stool location. Payment of these items is included in the cost of "Finger Plate Expansion Joint 5".
 "CVN" denotes Charpy-V-Notch impact energy requirements, Zone 2.
 Finger plate expansion joints shall be assembled in their final relative position with the ends in place for shop inspection and acceptance.
 All steel components of the expansion joints including hardware assembled with the trough system shall be galvanized after fabrication according to section 520.03 of the Standard Specifications, unless otherwise noted.
 Bars indicated thus 1x2-#6 etc. indicates 1 line of bars with 2 lengths per line.
 For stool height S1, S2, & S3, see sheet S-05.

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 DRAWING: Finger Details
 SHEET: 5-04 OF 5-21 SHEETS
 DATE: 11/15/2022

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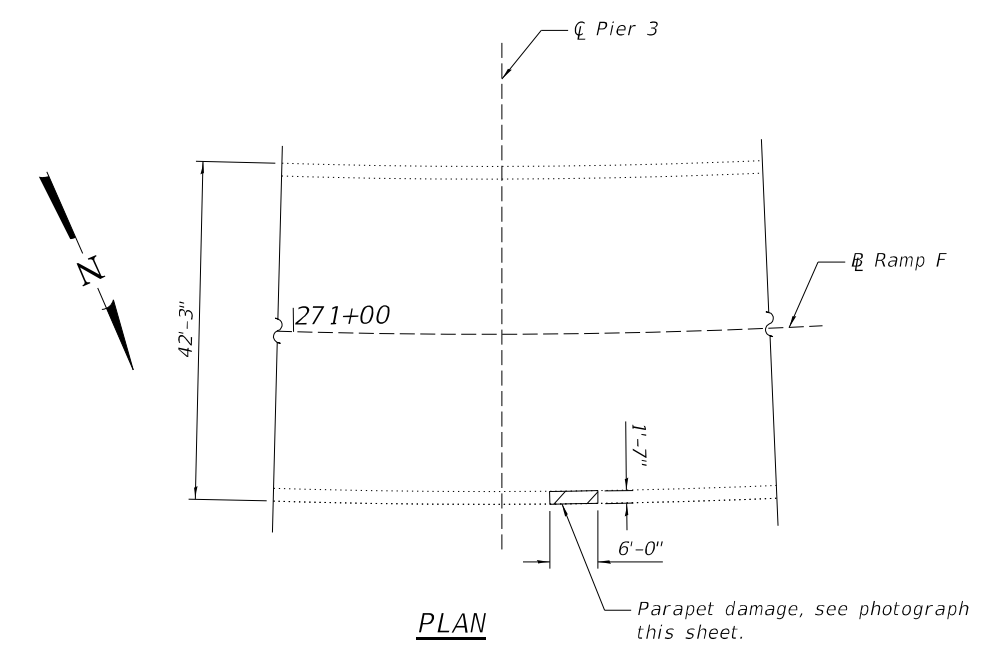
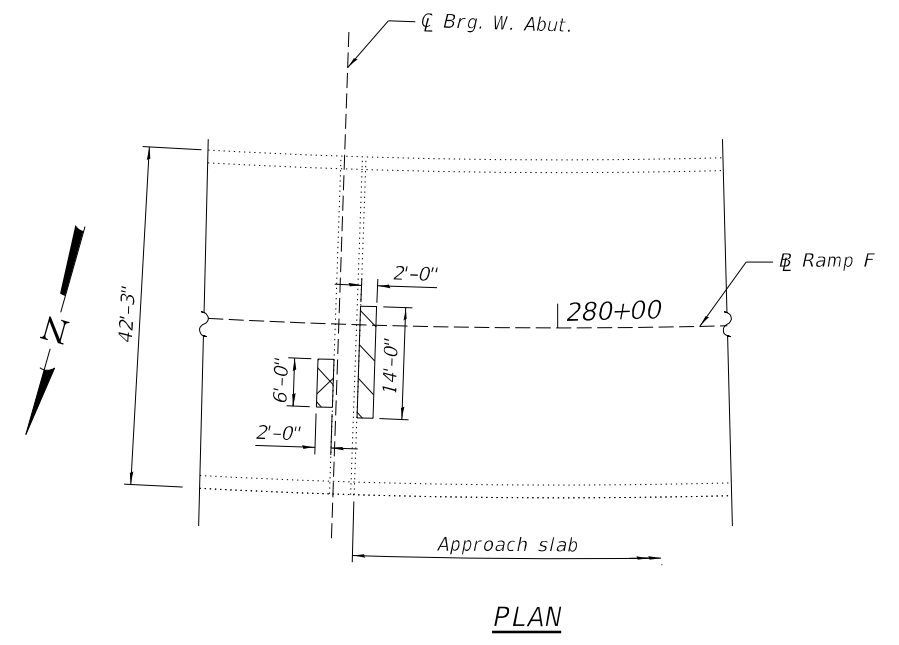
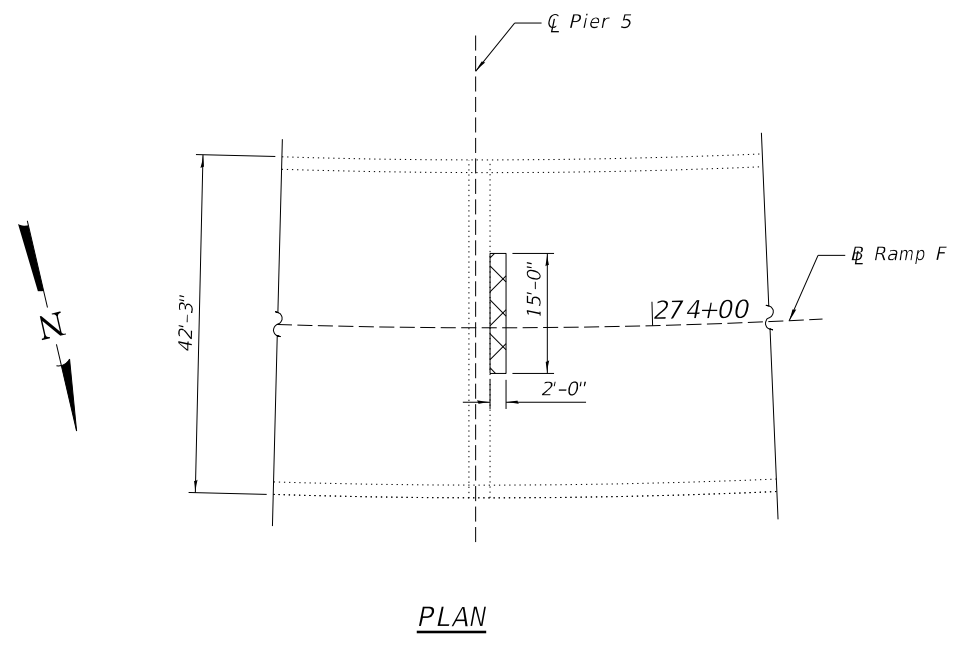
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DATE 10/24/2022	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

FINGER JOINT DETAILS 1
 STRUCTURE NO. 022-0094
 SHEET 5-04 OF 5-21 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	FAI 290 22 BJ	DUPAGE	35	18
CONTRACT NO. 62T96				
ILLINOIS FED. AID PROJECT				

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PARAPET DAMAGE

<u>BILL OF MATERIAL</u>			
SYMBOL	ITEM	UNIT	QUANTITY
	Deck Slab Repair (Partial)	Sq. Yd.	4.7
	Approach Slab Repair (Partial Depth)	Sq. Yd.	3.2
	Structural Repair of Concrete (Depth Greater Than 5 Inches)	Sq. Ft.	9.5

Notes:
 Partial depth slab repair areas are estimated and based on visual inspection performed by others. The actual quantity and locations of repairs shall be determined by the Engineer in the field. The Engineer shall show the actual location of the deck repairs on as-built plans.

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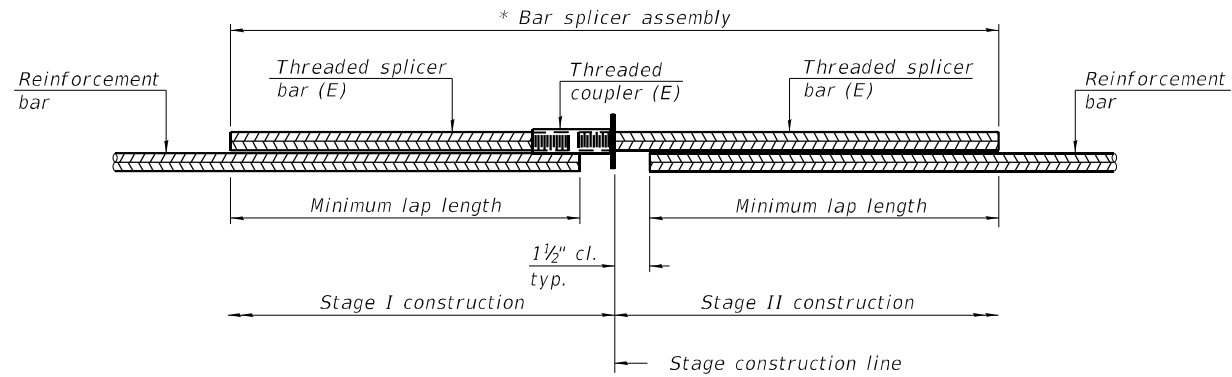
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**BRIDGE DECK REPAIRS
 STRUCTURE NO. 022-0094**

SHEET 5-08 OF 5-21 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	FAI 290 22 BJ	DUPAGE	35	22
CONTRACT NO. 62T96				
ILLINOIS		FED. AID PROJECT		

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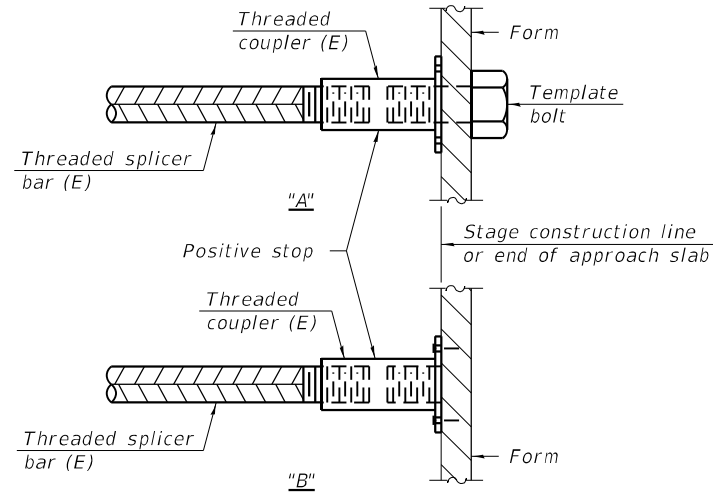


STANDARD BAR SPLICER ASSEMBLY PLAN
 (All components shall be provided from one supplier)

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
Deck	#6	12	4'-10"
Backwall	#5	4	3'-6"

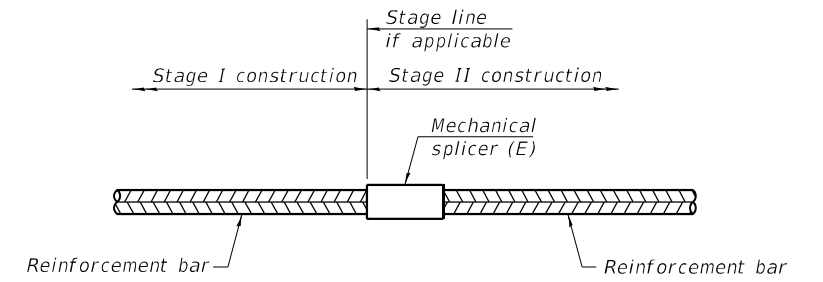


INSTALLATION AND SETTING METHODS

"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:

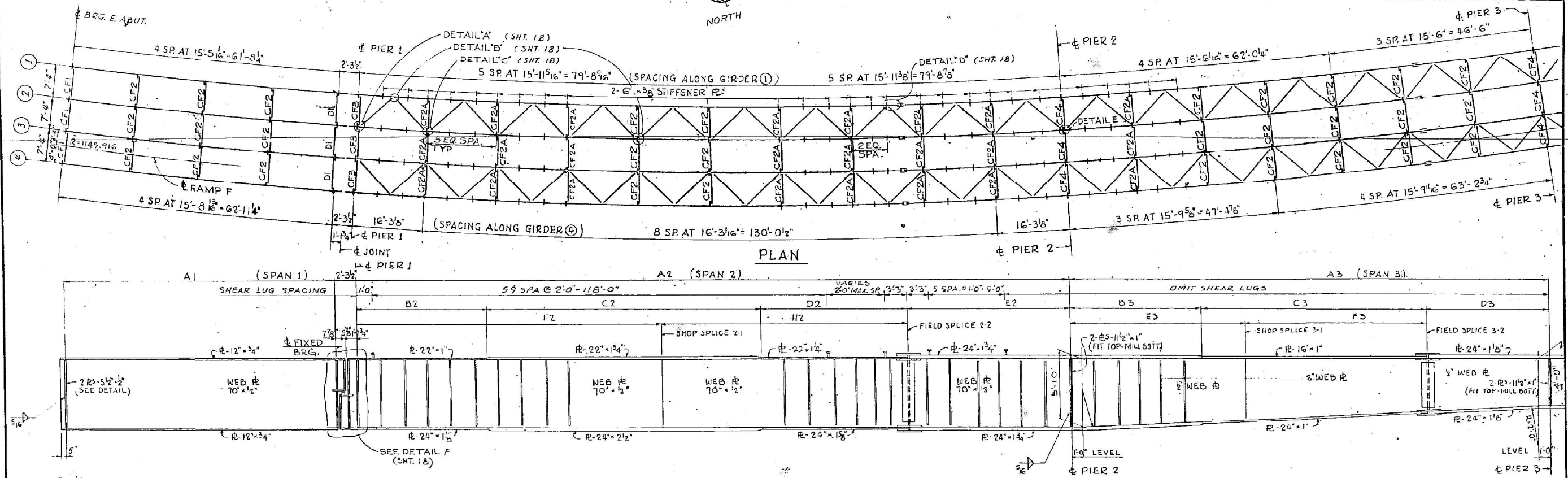
Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.

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.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI 290	22-1HB-5	DUPAGE	231	99
STA.	TO STA.			
R. P. R. PROJ. NO. 4	ILLINOIS	PROJECT		



ELEVATION
SCALE 1/32" = 1'-0"

FILLET WELD TABLE

FLANGE R THICKNESS	WELD SIZE
UP TO 3/4"	1/4"
OVER 3/4" TO 1 1/2"	5/16"
OVER 1 1/2" TO 2 1/4"	3/8"
2 1/2"	1/2"

GIRDERS DIMENSIONS (SEE ELEVATION)

GIRDER	A1	A2	B2	C2	D2	E2	F2	H2	A3	B3	C3	D3	E3	F3	RAD. US (FT.)
1	61'-8 1/4"	159'-5 1/8"	29'-5 5/8"	74'-7 1/8"	19'-7 3/8"	36'-3 1/2"	68'-8"	54'-5 1/8"	108'-6 1/4"	29'-5 1/8"	51'-7 1/2"	27'-5 5/8"	37'-3 1/4"	43'-9 3/8"	1127.9160
2	62'-1 1/4"	160'-5 5/8"	29'-7 3/8"	74'-7 1/4"	19'-9"	36'-6 1/4"	69'-1 1/4"	54'-10 3/8"	109'-2 1/2"	29'-7 3/8"	51'-11 3/8"	27'-7 3/4"	37'-6 1/4"	44'-0 3/4"	1135.2493
3	62'-2 1/4"	161'-6 3/8"	29'-7 3/8"	75'-1"	19'-10 1/8"	36'-7 1/8"	69'-6 1/4"	55'-2 3/8"	109'-1 1/8"	29'-9 3/8"	52'-3 3/8"	27'-9 1/2"	37'-9 1/8"	44'-4 1/8"	1142.5827
4	62'-1 1/4"	162'-6 3/4"	30'-0"	75'-6 3/4"	20'-0"	37'-0"	70'-0"	55'-6 3/4"	110'-7 5/8"	30'-0"	52'-7 5/8"	28'-0"	38'-0"	44'-7 5/8"	1149.9160

NOTE: GIRDER DIMENSIONS ARE ALONG CENTERLINE OF GIRDER AND ARE HORIZONTAL.

TOP OF WEB ELEVATIONS (FOR FABRICATION ONLY)

GIRDER	SPANS 1-2-3-4-5													
	BRG. E. A	BRG. CANT	PIER 1	SPL. S2-1	SPL. S2-2	PIER 2	SPL. S3-1	SPL. S3-2	PIER 3	SPL. S4-1	SPL. S4-2	PIER 4	SPL. S5-1	BRG. PIERS
1	732.203	733.862	733.906	735.690	736.674	737.226	737.792	739.373	738.701	739.251	739.386	739.409	739.429	739.249
2	732.647	734.310	734.354	736.211	737.165	737.683	738.214	738.801	739.147	739.729	739.850	739.862	739.872	739.697
3	733.096	734.757	734.801	736.700	737.630	738.137	738.657	739.252	739.598	740.179	740.310	740.313	740.316	740.144
4	733.544	735.205	735.248	737.199	738.109	738.589	739.082	739.684	740.042	740.644	740.767	740.762	740.758	740.591

GIRDER	SPANS 6-7-8-9													
	BRG. PIERS	SPL. S6-1	SPL. S6-2	PIER 6	SPL. S7-1	SPL. S7-2	SPL. S7-3	SPL. S7-4	PIER 7	SPL. S8-1	SPL. S8-2	PIER 8	BRG. CANT	BRG. W.A
1	739.312	739.055	738.578	737.786	737.495	736.940	735.242	734.115	733.690	731.828	729.834	727.662	727.666	726.376
2	739.760	739.557	739.072	738.236	737.929	737.359	735.644	734.547	734.141	732.364	730.378	728.110	728.053	726.823
3	740.207	740.032	739.539	738.678	738.362	737.773	736.044	734.980	734.583	732.848	730.869	728.598	728.542	727.270
4	740.654	740.517	740.022	739.124	738.795	738.183	736.440	735.412	735.031	733.365	731.396	729.045	728.980	727.718

FRAMING PLAN
RAMP "F"
OVER E.A. RTE. 90 & E.A. P.R.T.E. 61
PROJECT
SECTIONS 22-1HB-5 & 22-1HB-8
DUPAGE COUNTY
STATION 272+38.05

ALFRED BENESCH & COMPANY
CONSULTING ENGINEERS
10 S. WABASH AVE. CHICAGO, ILLINOIS

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USER NAME = vincentscarpa
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DATE = 10/21/2022

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DATE = 10/24/2022

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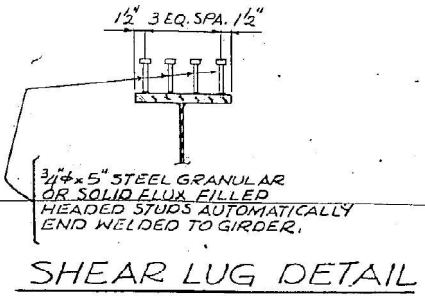
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STRUCTURE NO. 022-0094
SHEET S-11 OF S-21 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62T96			ILLINOIS FED. AID PROJECT	

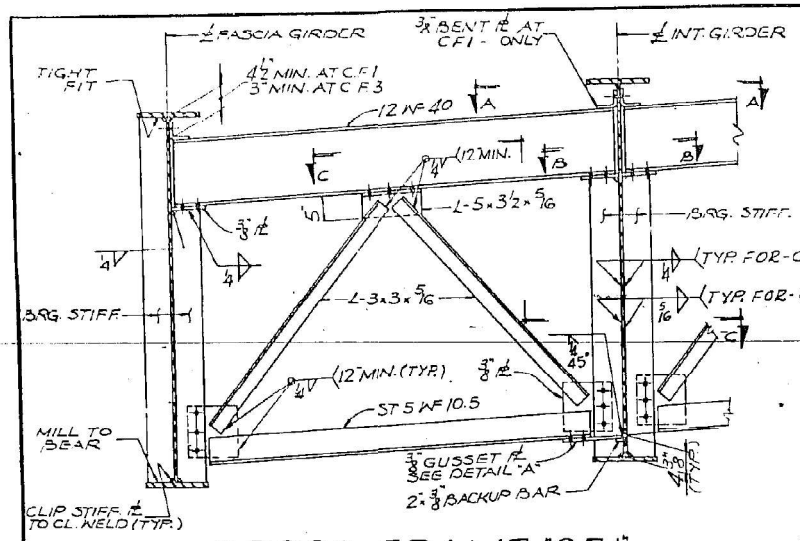
FOR INFORMATION ONLY

ROUTE	SECTION	COUNTY	TOTAL SHEETS
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STA.	TO STA.	PROJECT	
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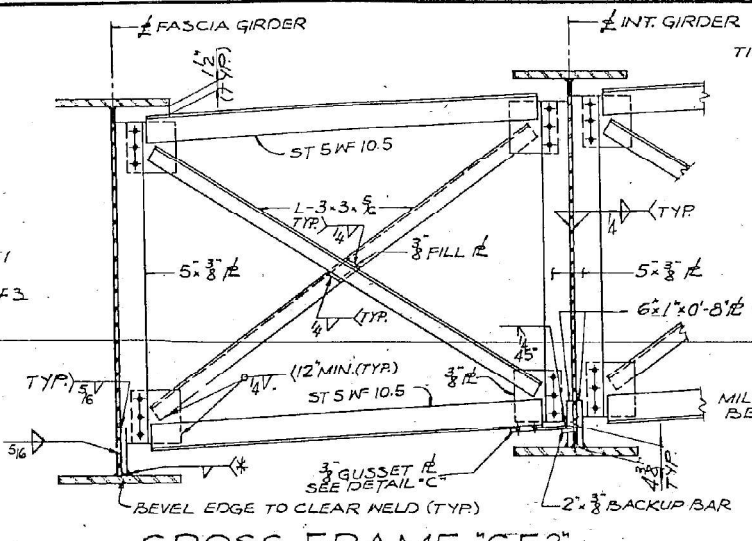
SHEET 18 OF 35



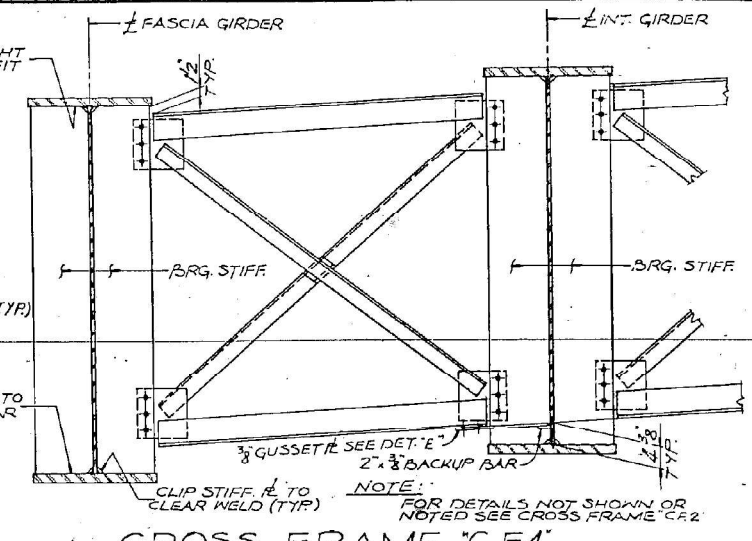
SHEAR LUG DETAIL



CROSS FRAME "C.F.1"
CROSS FRAME "C.F.3" SIMILAR
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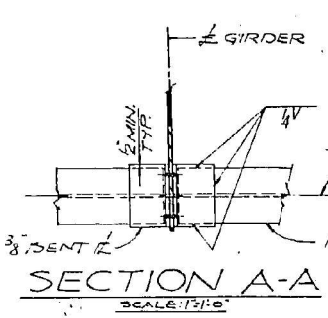


CROSS FRAME "C.F.2"
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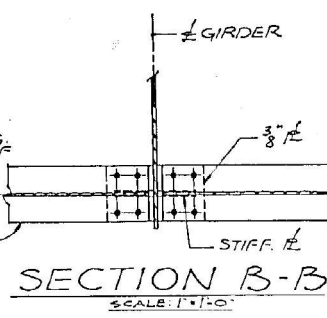


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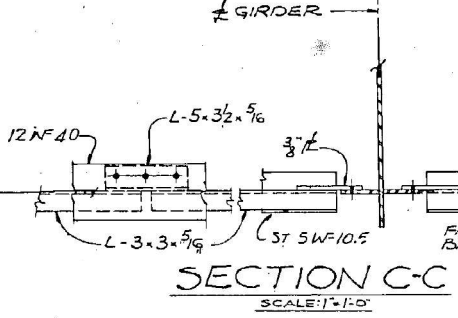
NOTE:
ALL CROSS FRAMES TO BE PARALLEL TO CROWN.



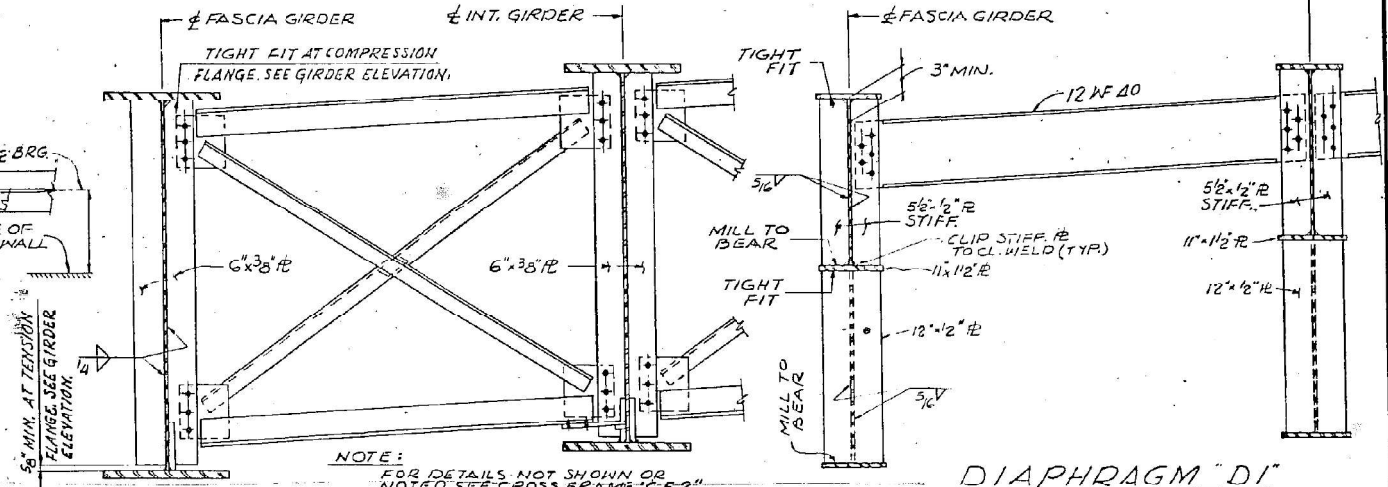
SECTION A-A
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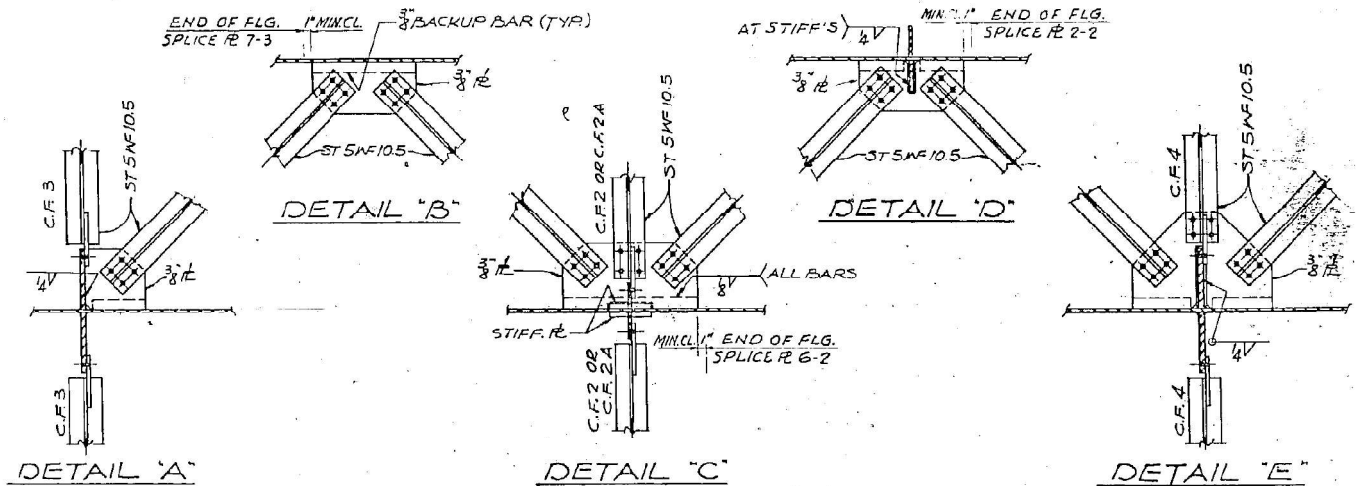
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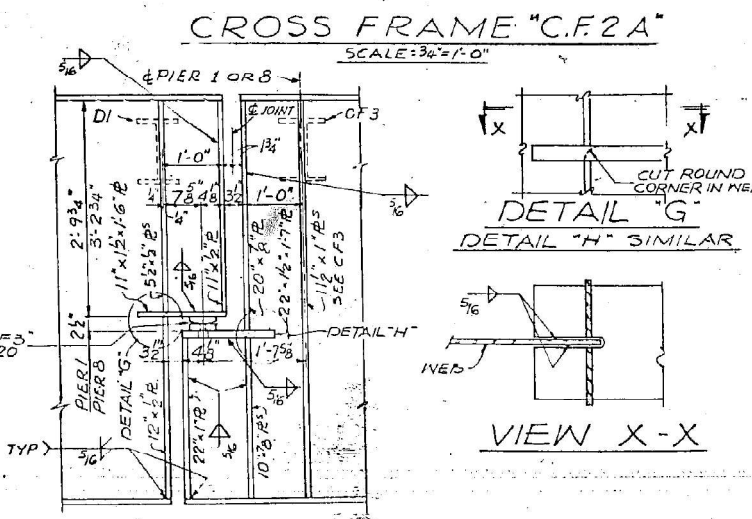
SECTION C-C
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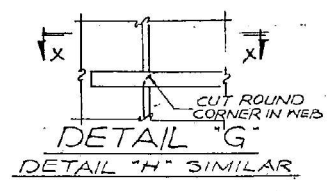
DIAPHRAGM "DI"
SCALE: 3/4"=1'-0"



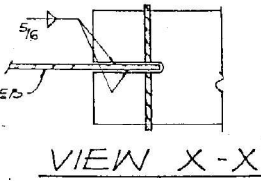
BOTTOM LATERAL BRACING CONNECTIONS
SCALE: 3/4"=1'-0"



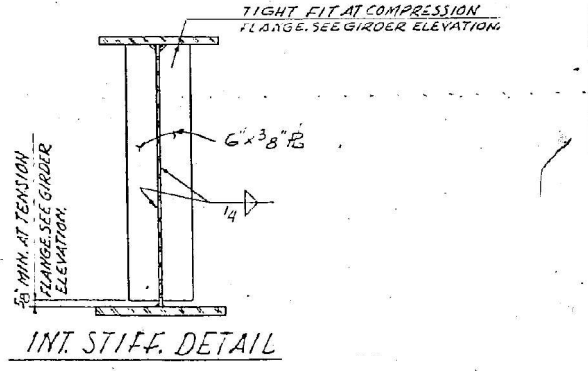
CROSS FRAME "C.F.2A"
SCALE: 3/4"=1'-0"



DETAIL "G"
DETAIL "H" SIMILAR



VIEW X-X



INT. STIFF. DETAIL



DETAIL "F"
SCALE: 3/4"=1'-0"

STEEL DETAILS
RAMP "F"
OVER F.A.I. RTE. 90 & F.A.RTE. 61
PROJECT
SECTIONS 22-1HB-5 & 22-1HB-8
DU PAGE COUNTY
STATION 772+38.05

ALFRED BENESCH & COMPANY
CONSULTING ENGINEERS
10 S. WABASH AVE. CHICAGO, ILLINOIS

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TYlin
200 S. WACKER DR. SUITE 1400
CHICAGO, IL 60606
TEL: 312-777-2900

USER NAME = vincentscarpa	DESIGNED - SJL	REVISED -
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DRAWN - VPS	REVISED -
CHECKED - SP	REVISED -
DATE 10/24/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS
STRUCTURE NO. 022-0094
SHEET 5-12 OF 5-21 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62T96			ILLINOIS FED. AID PROJECT	

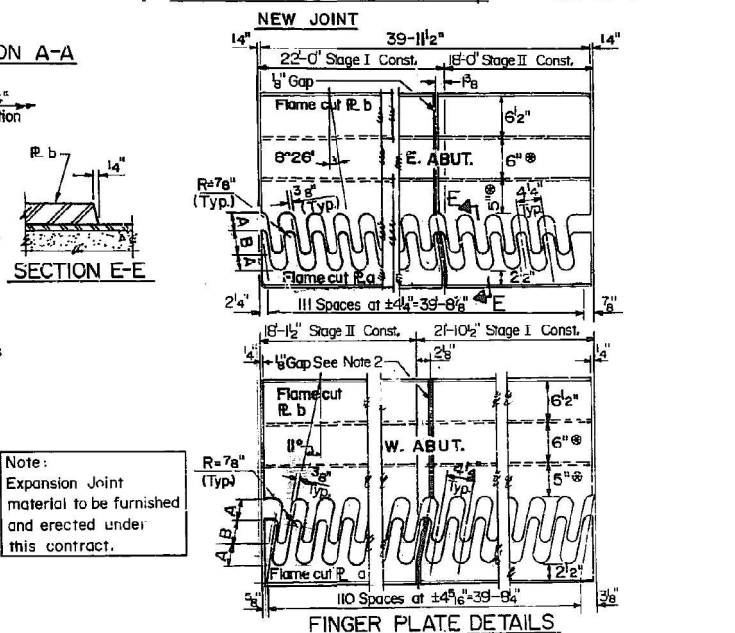
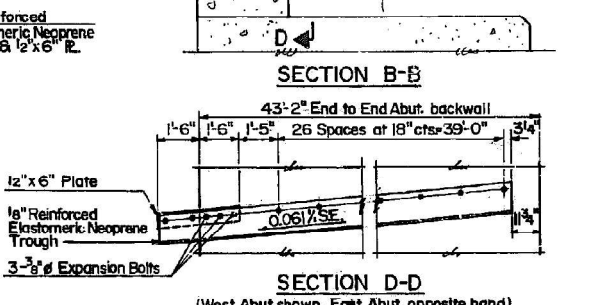
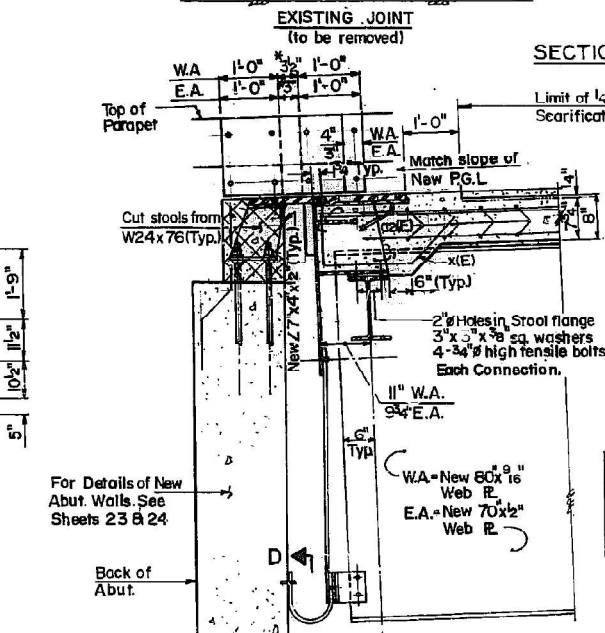
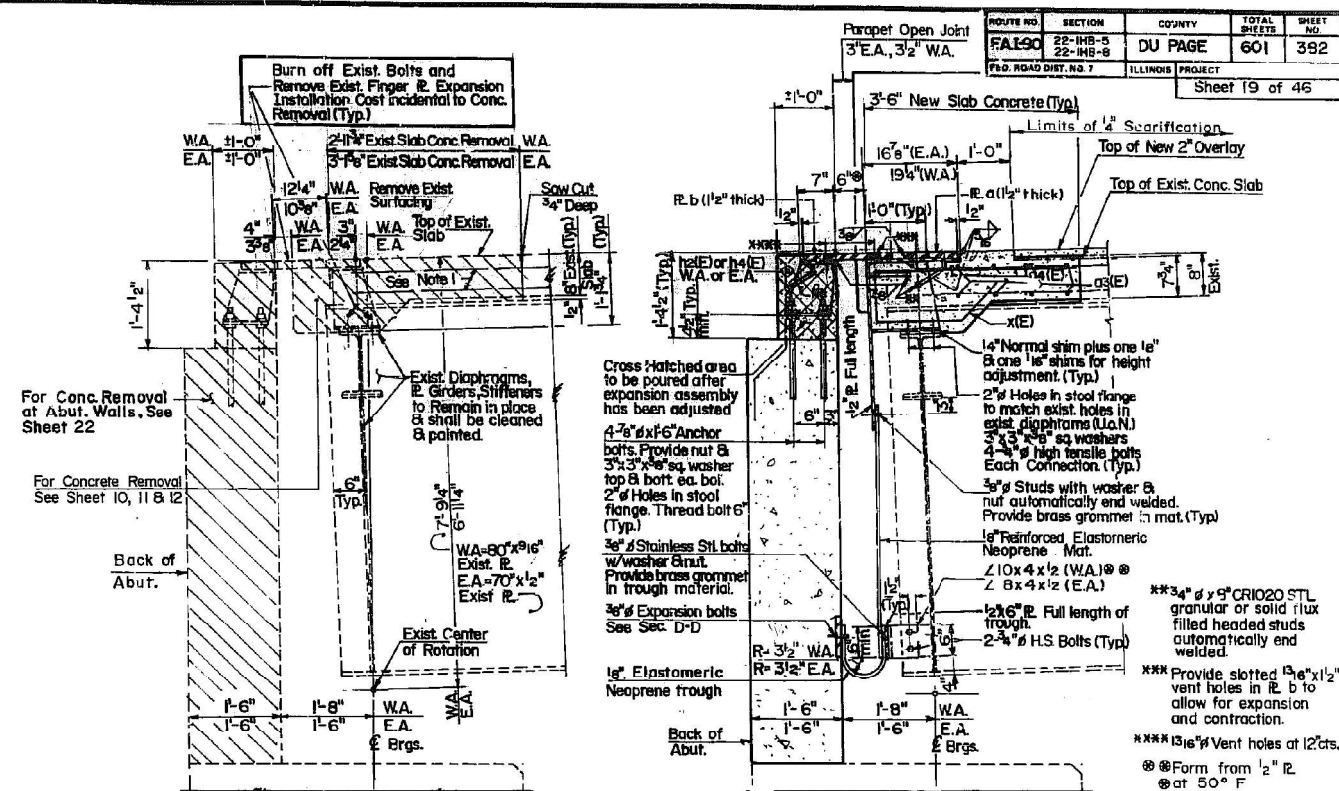
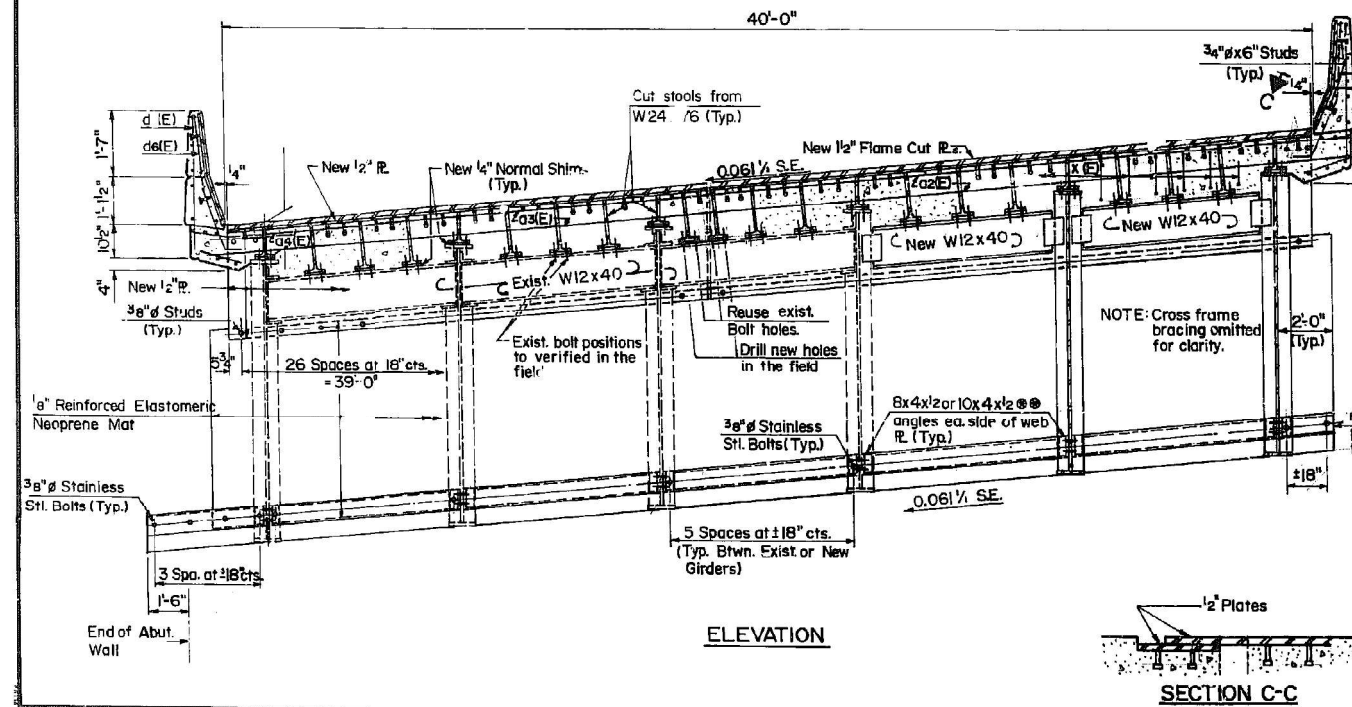
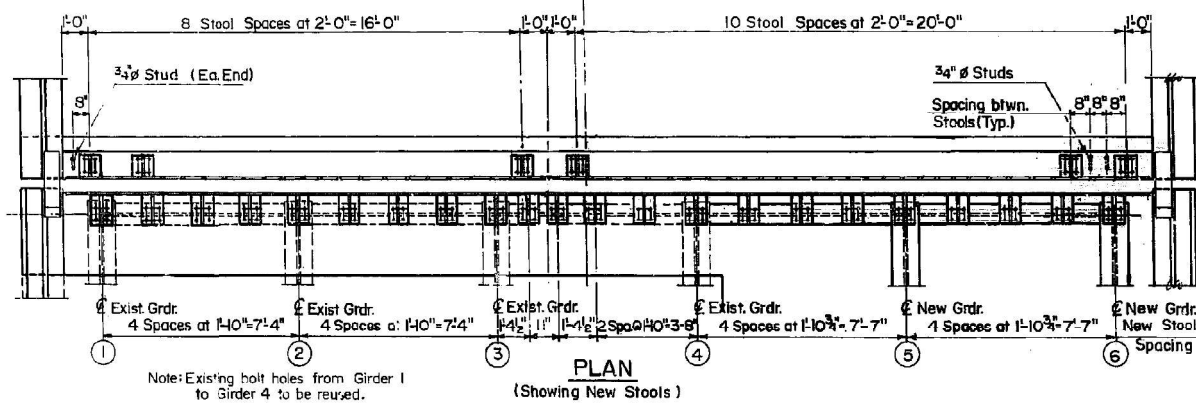
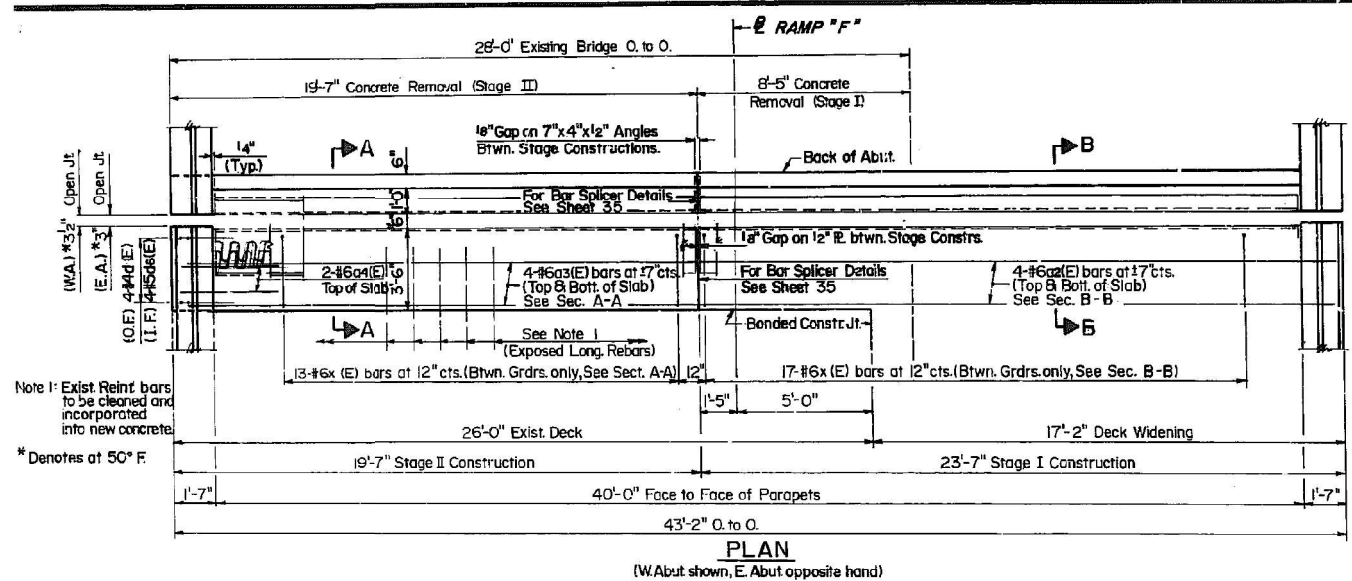


TABLE OF A&B DIMENSIONS

Temp	East Abutment		West Abutment	
	A	B	A	B
130°F	3 3/8"	5 3/4"	3 3/8"	7"
110°F	1 5/8"	5 3/4"	1 7/8"	6 5/8"
90°F	1 5/8"	4 1/8"	2 5/8"	5 5/8"
70°F	2 7/8"	4 1/8"	2 1/8"	4 1/8"
50°F	2 7/8"	3 5/8"	3 1/2"	4 1/8"
30°F	3 7/8"	3 1/8"	4 1/8"	3 1/8"
10°F	3 7/8"	2 5/8"	4 1/8"	2 5/8"
-10°F	4 1/2"	2"	5 5/8"	2 5/8"
-30°F	5"	1 1/2"	6 1/4"	1 1/2"

Use these values of A&B for temperature existing at the time of adjustment of Expansion Joint.

EXPANSION JOINT-ABUTMENTS RAMP 'F'
OVER I-290 & ILL. RTE. 53
SECTIONS 22-IHB-5 & 22-IHB-8
DU PAGE COUNTY
STATION 272+38.05
STRUCTURE NO. 022-0094

MTA, INCORPORATED
DESIGNED M.J.S. CHECKED G.B.M.
DRAWN A.E. DATE

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TYlin
200 S. WACKER DR. SUITE 1400
CHICAGO, IL 60606
TEL: 312-777-2900

USER NAME = vincent.scarpa	DESIGNED - SJL	REVISED -
PLOT SCALE = 0.2,0000 "/>		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS
STRUCTURE NO. 022-0094

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	FAI 290 22 BJ	DUPAGE	35	30
CONTRACT NO. 62T96				
ILLINOIS FED. AID PROJECT				

SHEET 5-16 OF 5-21 SHEETS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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ILL. ROAD DIST. NO. 7	ILLINOIS PROJECT			

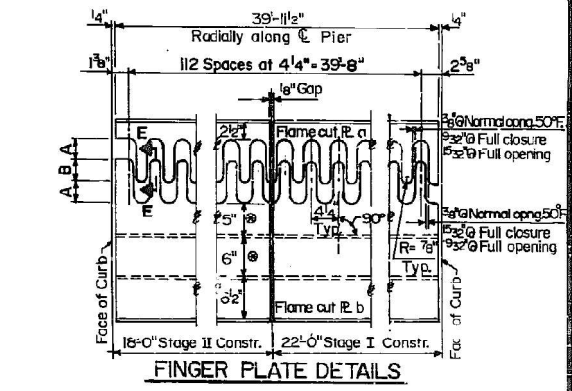
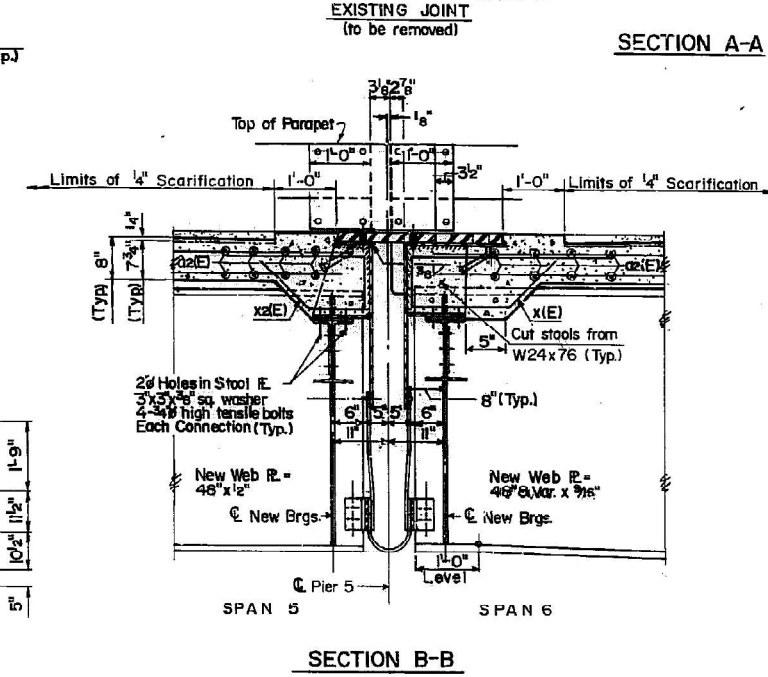
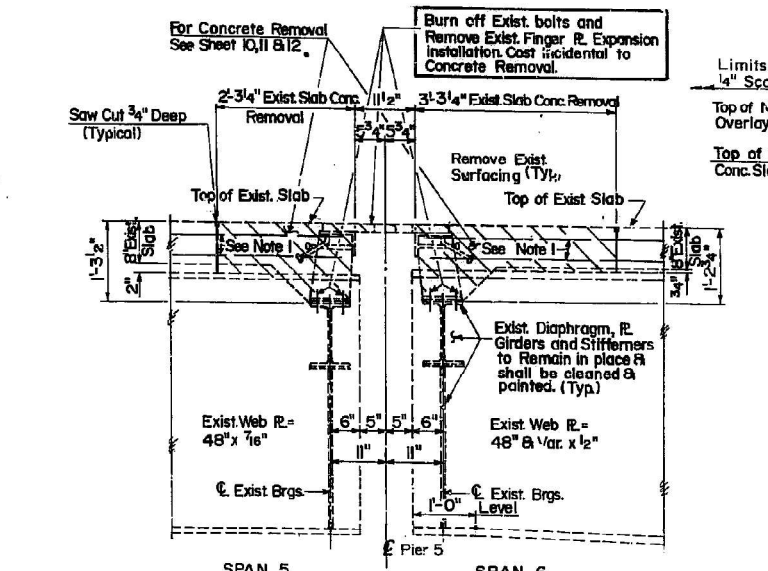
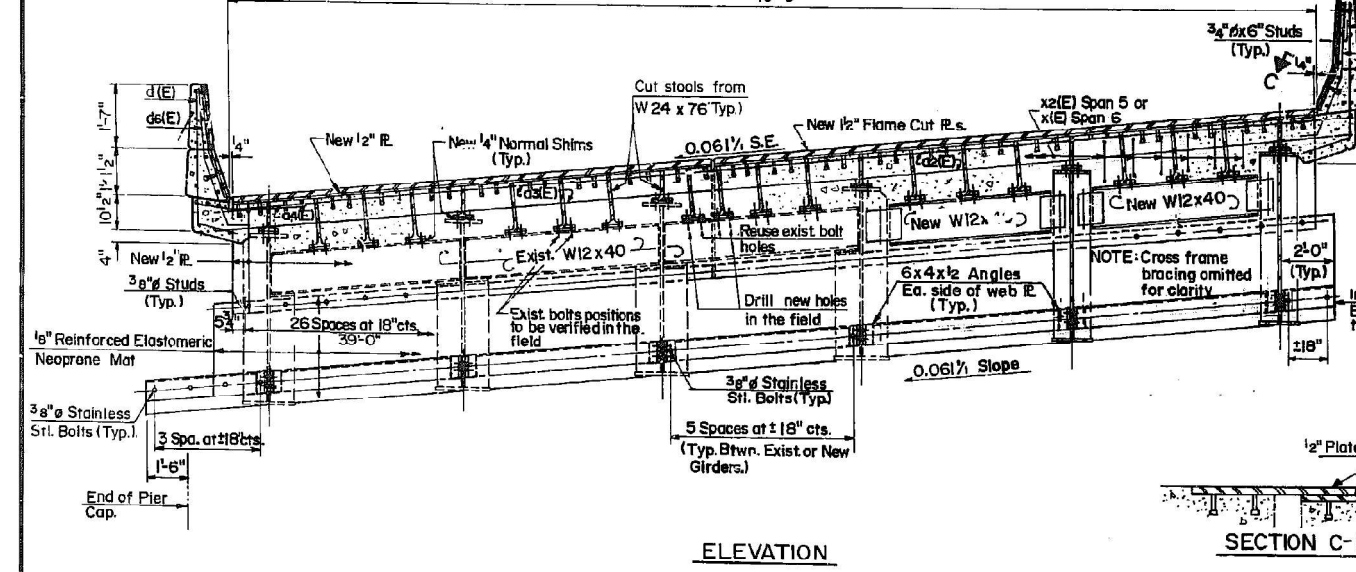
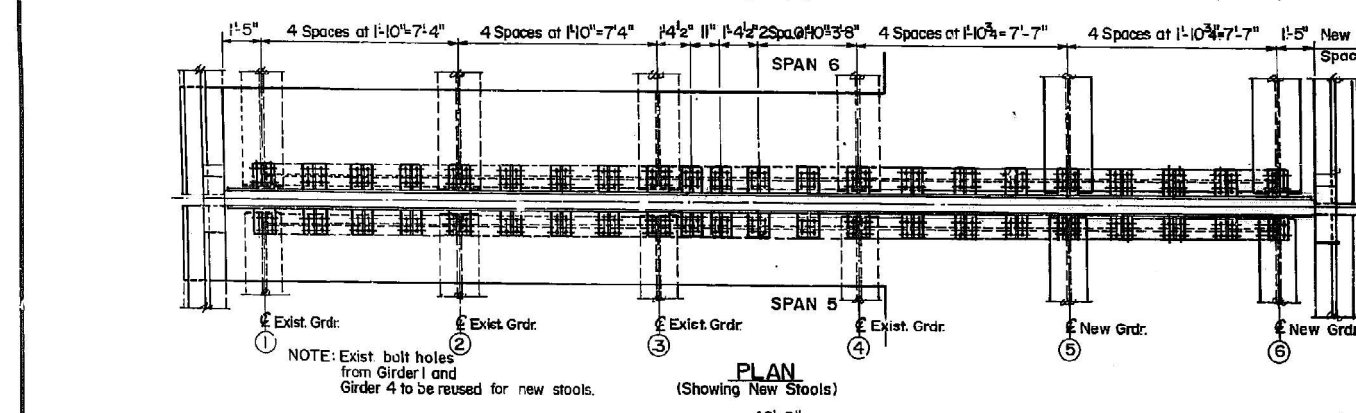
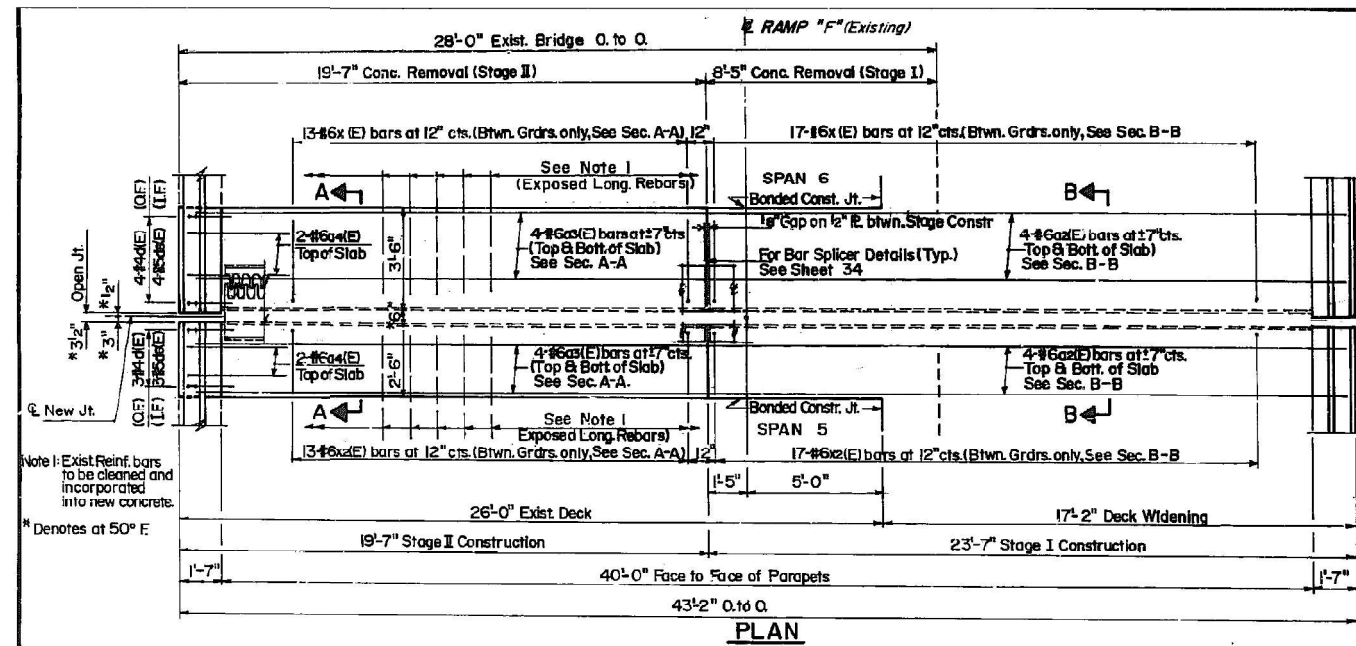


TABLE OF A&B DIMENSIONS

Temp.	A	B
130°F	3'-4"	6'-1/2"
110°F	1'-3/8"	5'-7/8"
90°F	2"	5'-4"
70°F	2'-5/8"	4'-5"
50°F	3'-1/4"	4"
30°F	3'-7/8"	3'-5/8"
10°F	4'-1/2"	2'-8"
-10°F	5'-1/8"	2'-1/8"
-30°F	5'-3/4"	1'-2"

Note: Expansion Joint material to be furnished and erected under this contract.

Use these values of A&B for temperature existing at the time of adjustment of Expansion Guard.

**EXPANSION JOINT - PIER 5
 RAMP "F"
 OVER I-290 & ILL. RTE. 53
 SECTIONS 22-IHB-5 & 22-IHB-8
 DU PAGE COUNTY
 STATION 272 + 38.05
 STRUCTURE NO. 022-0094**

MTA, INCORPORATED
 DESIGNED M.J.S. CHECKED G.B.M.
 DRAWN A.E. DATE NO.

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 200 S. WACKER DR. SUITE 1400
 CHICAGO, IL 60606
 TEL: 312-777-2900

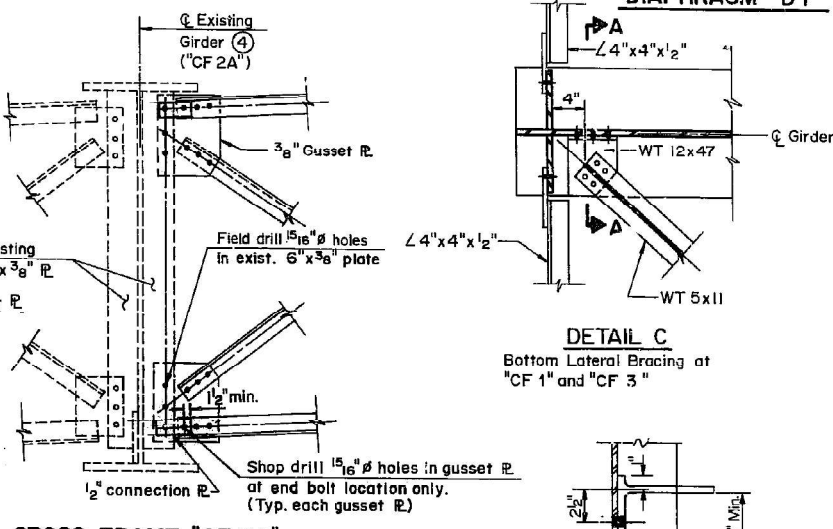
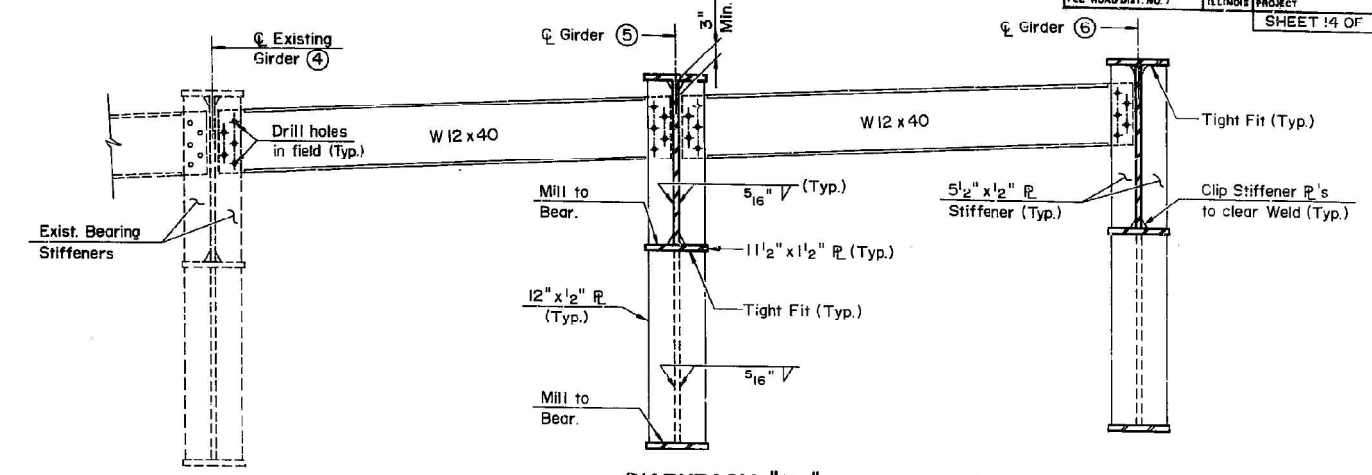
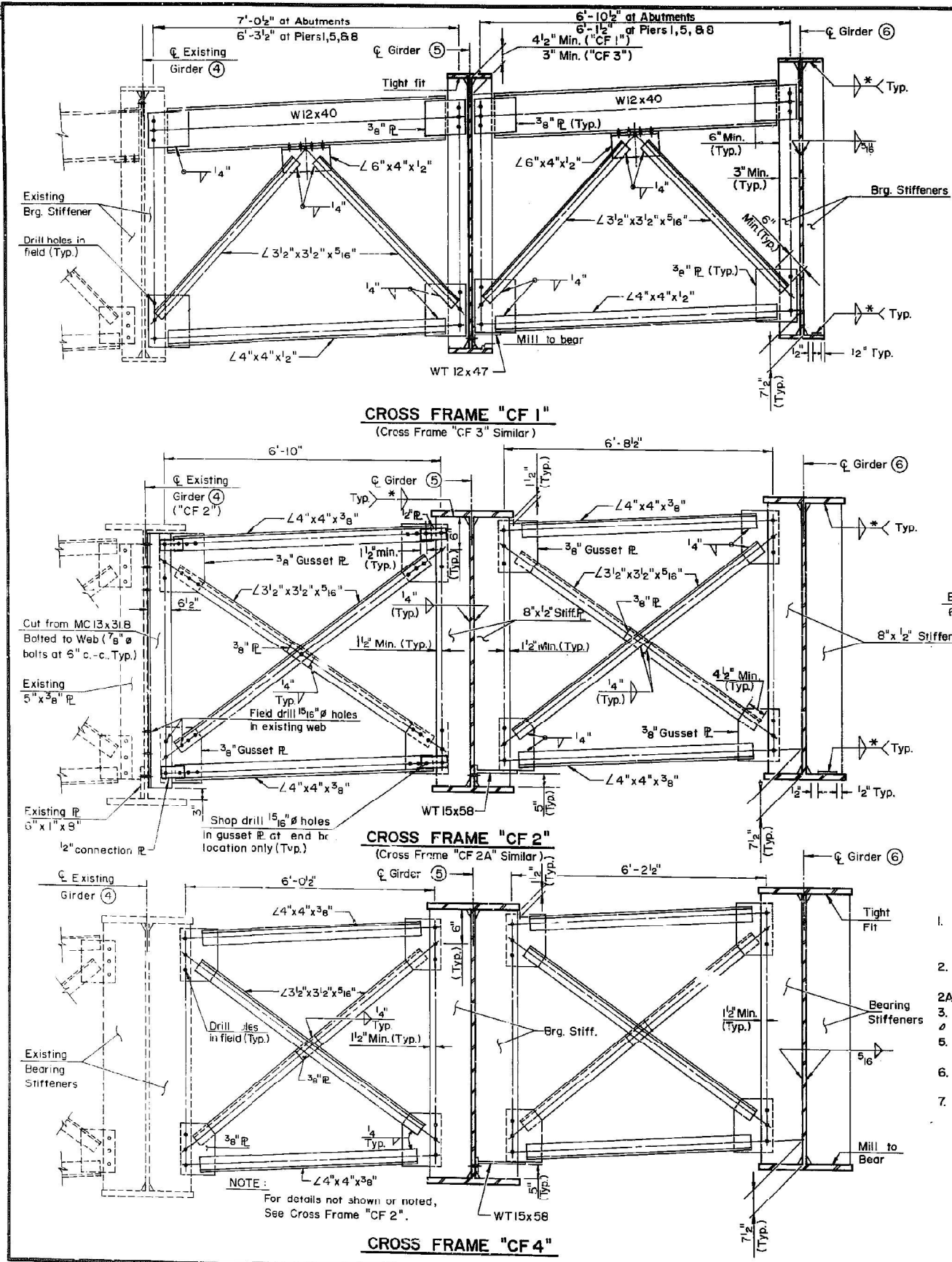
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	DATE 10/24/2022	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**EXISTING PLANS
 STRUCTURE NO. 022-0094**
 SHEET 5-17 OF 5-21 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	FAI 290 22 BJ	DUPAGE	35	31
			CONTRACT NO. 62T96	
ILLINOIS FED. AID PROJECT				

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI. 90	22-IHB-5 22-IHB-8	DUPAGE	601	377
FED. ROAD DIST. NO. 7	ILLINOIS PROJECT	SHEET 14 OF 46		



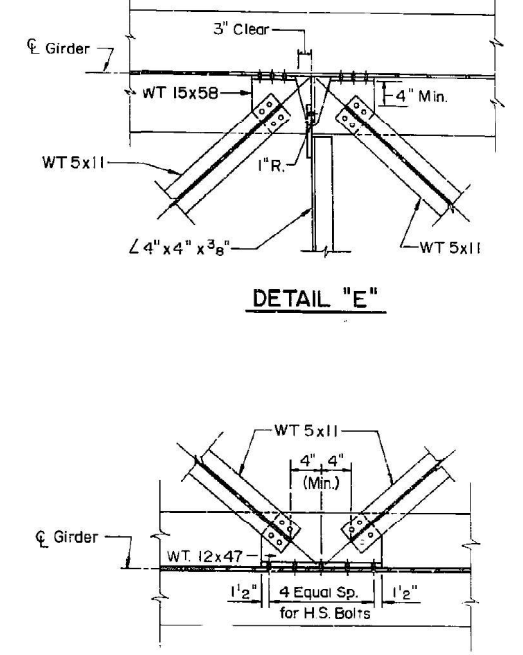
"CF 2" & "CF 2A" ERECTION PROCEDURE
(This procedure applies to Cross Frames between Girders 4 & 5 only)

- Shop drill all holes in MC13x31.8 and all holes in $\angle 4 \times 4 \times 3/8$. Shop drill four holes in each $3/8$ " Gusset Plate, three for attachment to the vertical stiffeners and one in the end bolt of each connection to $\angle 4 \times 4 \times 3/8$. Shop drill holes in the $1/2$ " connection plates.
- For "CF 2" using MC13x31.8 as a template, field drill $15/16$ " holes in existing girder web and attach channel.
- For "CF 2A" using $3/8$ " gusset plate as template, field drill $15/16$ " holes in existing stiffeners.
- Attach gusset plates and $1/2$ " connection plates to exist. stiffener ("CF 2A") or to MC13x31.8 ("CF 2").
- Install horizontal $\angle 4 \times 4 \times 3/8$ using end bolt at each connection only, finger tight.
- After concrete deck has been poured, field drill $15/16$ " holes in gusset plates and $\angle 3/2 \times 3/2 \times 5/16$ and install diagonal angles.
- Using $\angle 4 \times 4 \times 3/8$ as template, field drill $15/16$ " holes in gusset plates and install remaining bolts. Tighten all bolts to the required tension.
- $\angle 3/2 \times 3/2 \times 5/16$ shall be provided with 3" extra length so that they may be trimmed in the field to accommodate differential deflection between girders 4 & 5.

* Weld size as tabulated

FLANGE THICKNESS	WELD SIZE
Over $3/4$ " to $1 1/2$ "	$3/16$ "
Over $1 1/2$ " to $2 1/4$ "	$3/8$ "
Over $2 1/4$ " to 6"	$1/2$ "

Notes:
1. All bolts are to be High Strength $7/8$ " Dia.
2. Hardened washers shall be provided over all holes.
3. Height of Cross Frames varies.



For Locations of Details E & D
See Sheets 10 thru 13

Note:
Structural Steel shown on this sheet is to be furnished by others and erected under this contract.

CROSS FRAME AND LATERAL BRACING DETAILS
RAMP "F"
OVER I-290 & ILL. RTE. 53
SECTIONS 22-IHB-5 & 22-IHB-8
DUPAGE COUNTY
STATION 272+38.05
STRUCTURE NO. 022-0094

MTA, INCORPORATED	
DESIGNED M.J.S.	CHECKED G.B.M.
DRAWN A.F.	DATE

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 DESIGNED: SJL
 DRAWN: VPS
 CHECKED: SP
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TYlin
200 S. WACKER DR. SUITE 1400
CHICAGO, IL 60606
TEL: 312-777-2900

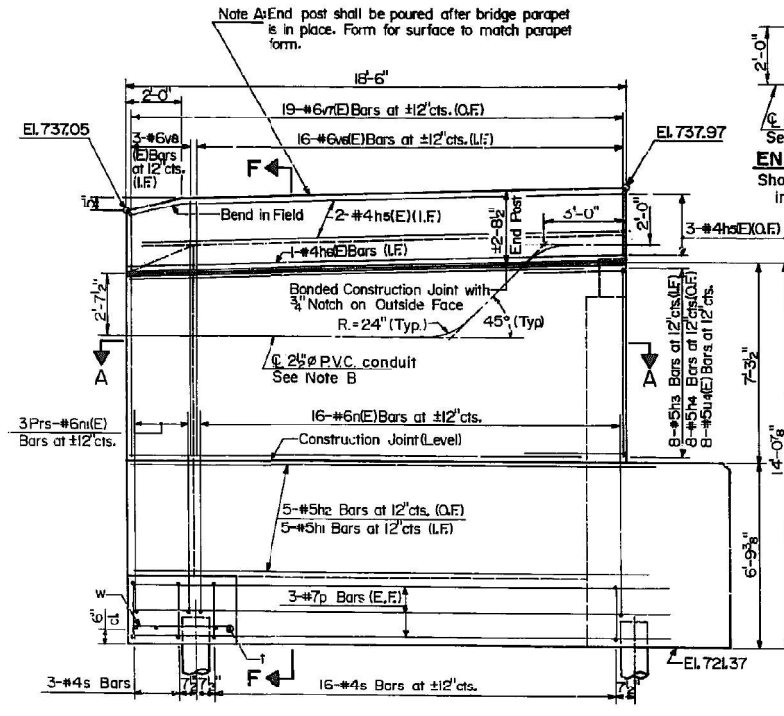
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

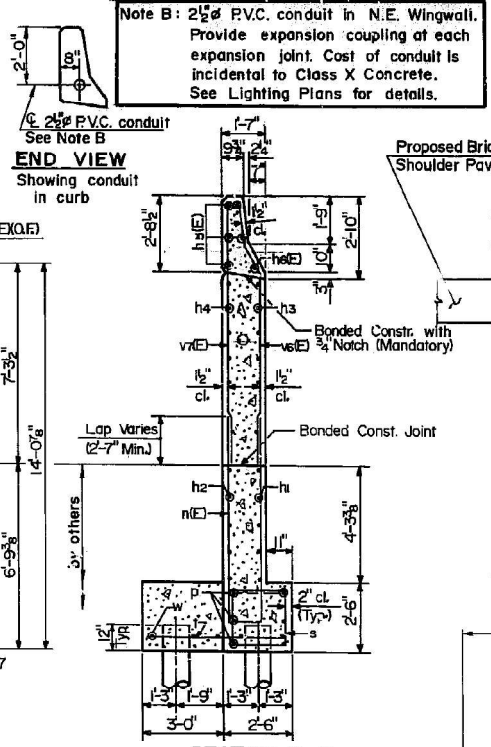
EXISTING PLANS
STRUCTURE NO. 022-0094
SHEET 5-19 OF 5-21 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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ILLINOIS FED. AID PROJECT			CONTRACT NO. 62T96	

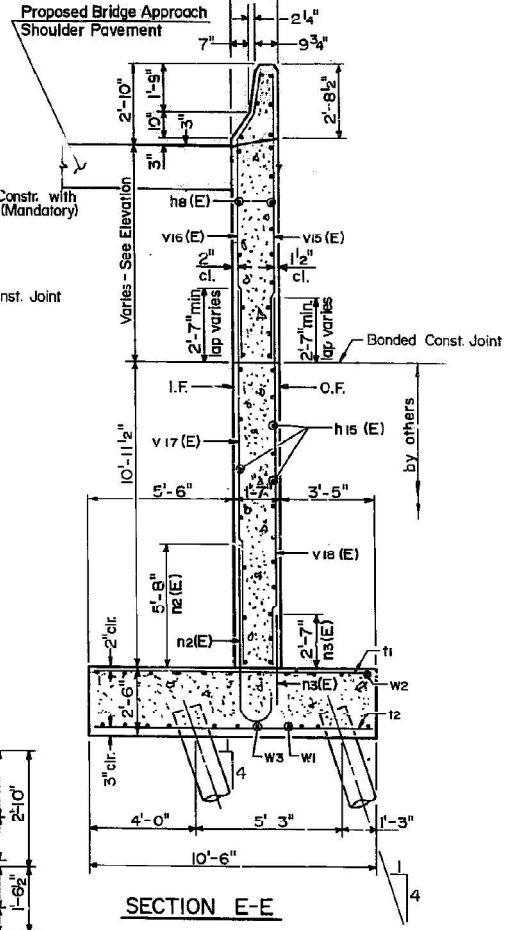
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FAI 90	22-IHB-5 22-IHS-8	DU PAGE	601	388
FED. ROAD DIST. NO. 7		ILLINOIS PROJECT	Sheet 25 of 46	



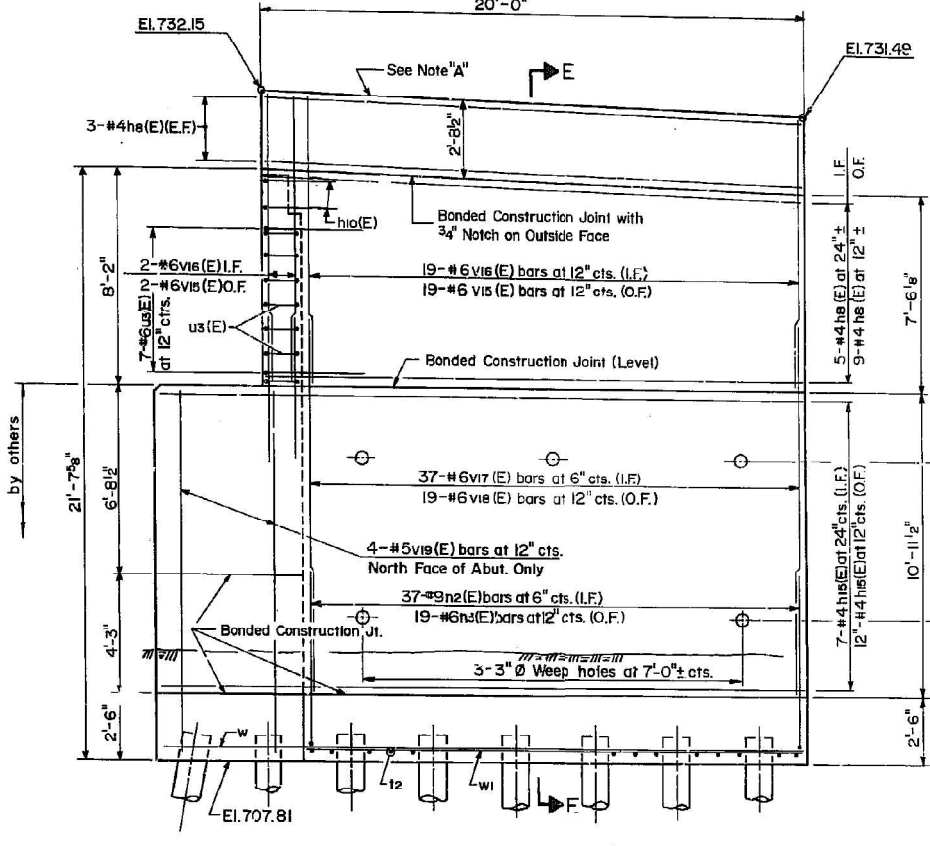
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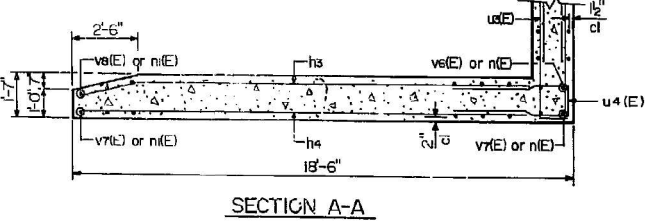
SECTION F-F



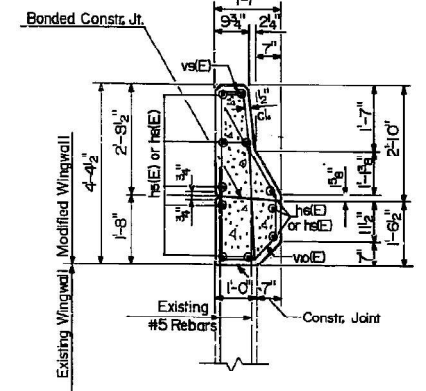
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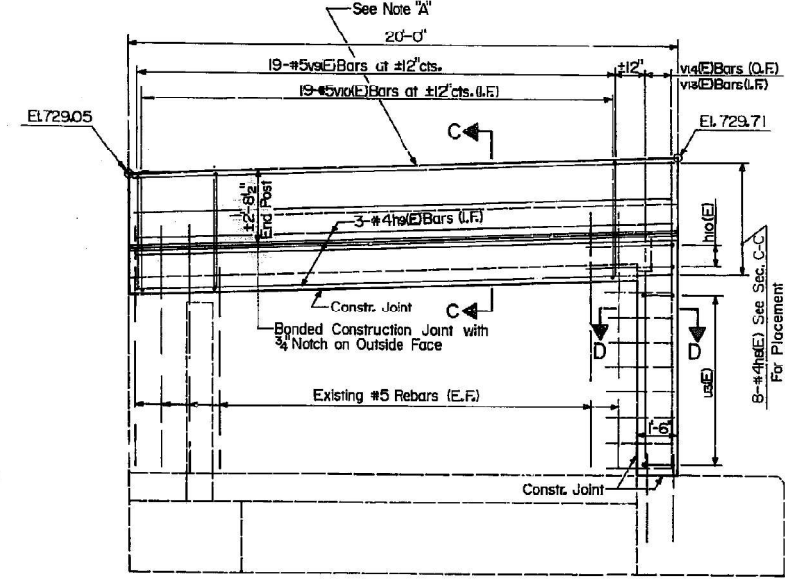
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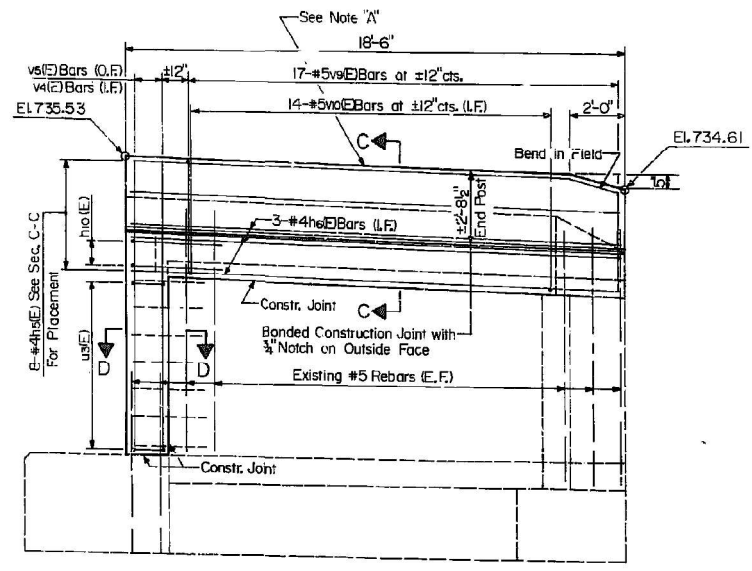
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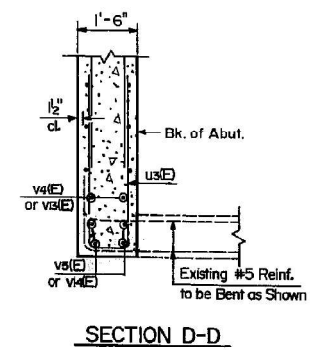
SECTION C-C



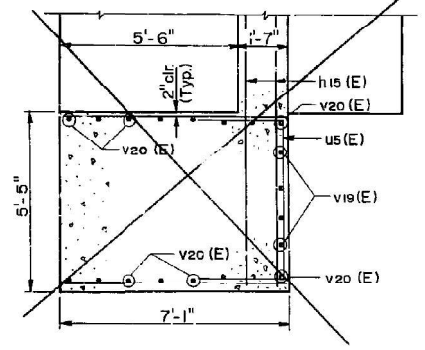
WEST ABUT SOUTH WINGWALL ELEVATION



EAST ABUT SOUTH WINGWALL ELEVATION



SECTION D-D



SECTION G-G

ABUTMENT WINGWALLS
RAMP "F"
OVER I-290 & ILL. RTE. 53
SECTIONS 22-IHB-5 & 22-IHS-8
DU PAGE COUNTY
STATION 272+38.05
STRUCTURE NO. 022-0094

MTA, INCORPORATED	
DESIGNED M.J.S., DRB	CHECKED G.B.M.
DRAWN A.E.	DATE NO.

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 200 S. WACKER DR. SUITE 1400
 CHICAGO, IL 60606
 TEL: 312-777-2900

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200 S. WACKER DR. SUITE 1400
CHICAGO, IL 60606
TEL: 312-777-2900

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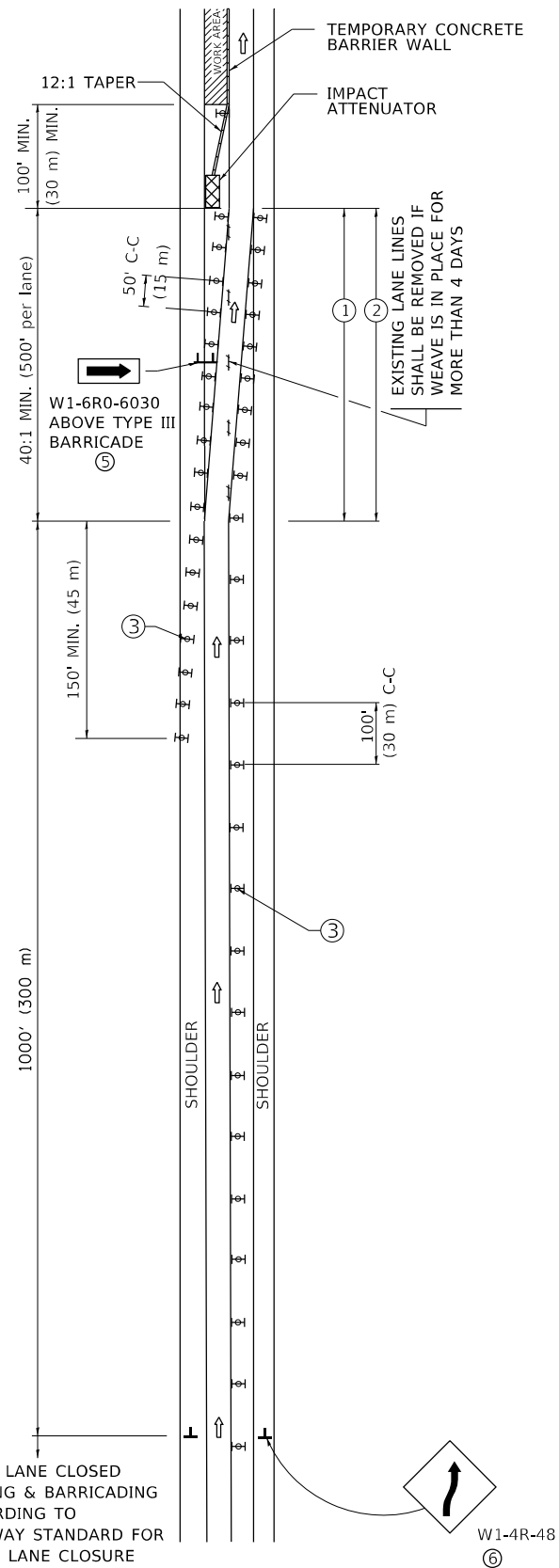
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS
STRUCTURE NO. 022-0094

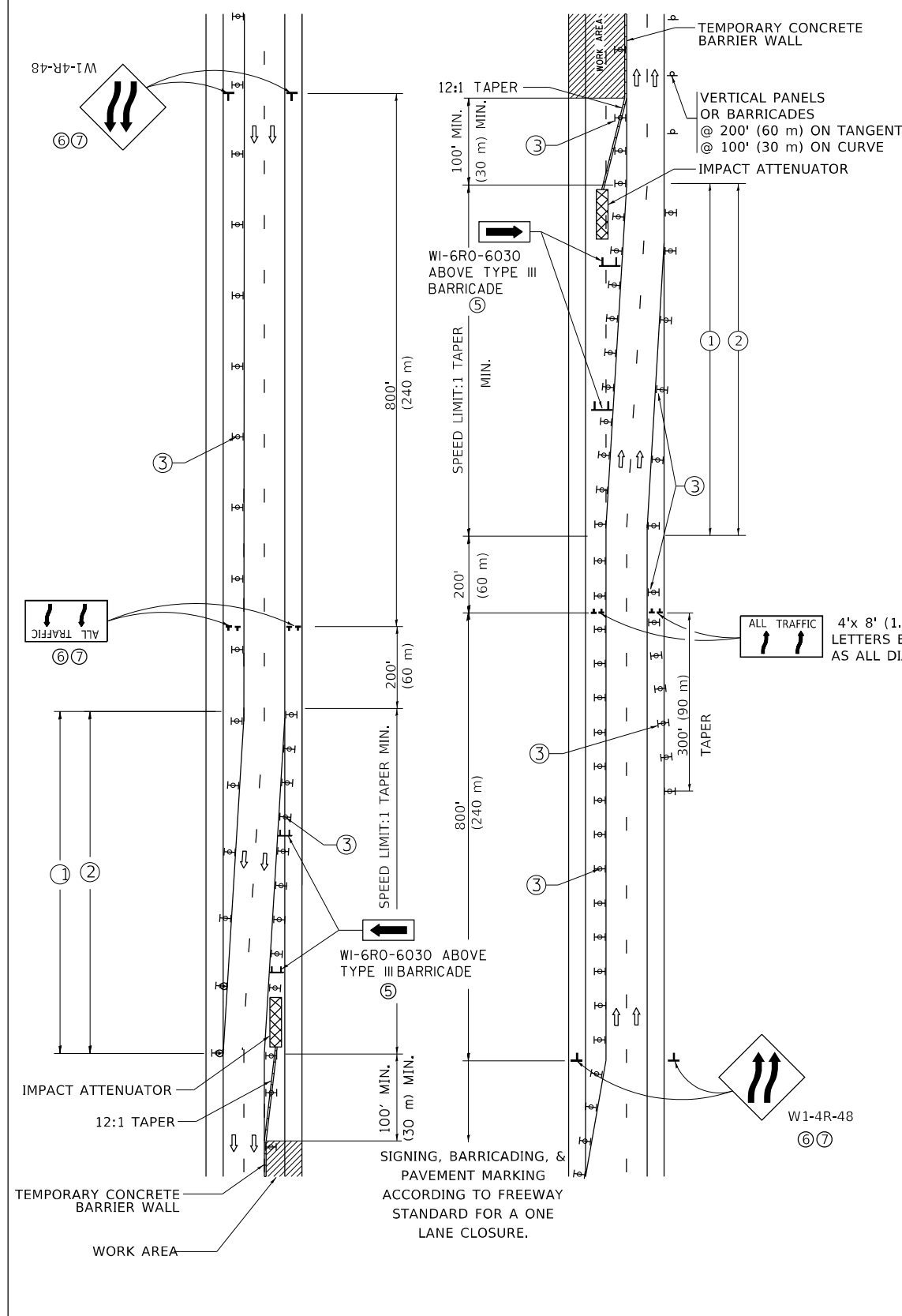
SHEET 5-21 OF 5-21 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	FAI 290 22 BJ	DUPAGE	35	35
				CONTRACT NO. 62T96
ILLINOIS FED. AID PROJECT				

SINGLE LANE WEAVE

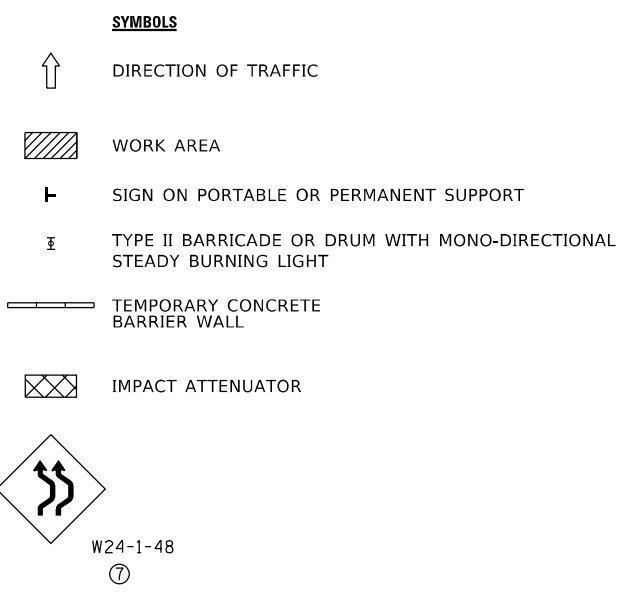


MULTI-LANE WEAVE



GENERAL NOTES:

- ① EXISTING CONFLICTING PAVEMENT MARKING LINES SHALL BE REMOVED. PAVEMENT MARKING REMOVAL SHALL NOT BE REQUIRED FOR SINGLE LANE WEAVES UNDER 4 DAYS IN DURATION.
- ② CONTINUOUS REFLECTIVE TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER AND FOR 300' (90 m) ALONG SIDE THE WORK AREA WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS. THE LEFT EDGE LINE SHALL BE YELLOW AND THE RIGHT EDGE LINE SHALL BE WHITE. FOR MULTI-LANE WEAVES LANE LINES SHALL BE 5 INCH, 10'-30' (3 m-9 m) SKIP DASH, WHITE.
- ③ PLASTIC DRUMS WITH STEADY BURN LIGHTS AT 50' (15 m) C-C SPACING IN TAPERS AND 100' (30 m) C-C SPACING IN TANGENTS.
- ④ ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
- ⑤ TYPE III BARRICADES MAY BE OMITTED FOR SINGLE-LANE WEAVES UNDER 24-HOURS IN DURATION. W1-6 SIGNS WILL STILL BE REQUIRED. IF THE WIDTH OF OFFSET IS LESS THAN 6' THEN THE TYPE III BARRICADE WITH ATTACHED ARROW SIGN PANEL CAN BE ELIMINATED IN THE TAPER AREAS.
- ⑥ WHEN THE LENGTH OF THE SHIFTED SEGMENT (DISTANCE BETWEEN WEAVE POINTS) IS LESS THAN 1500', DOUBLE REVERSE CURVE SIGNS (W24-1) SHOULD BE USED INSTEAD OF THE REVERSE CURVE (W1-4) SIGNS. ARROWS ON THE 4'X8' "ALL TRAFFIC" SIGNS SHALL BE THE SAME SHAPE.
- ⑦ THE NUMBER OF ARROWS ON THESE SIGNS SHALL MATCH THE NUMBER OF LANES OPEN TO TRAFFIC.



ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

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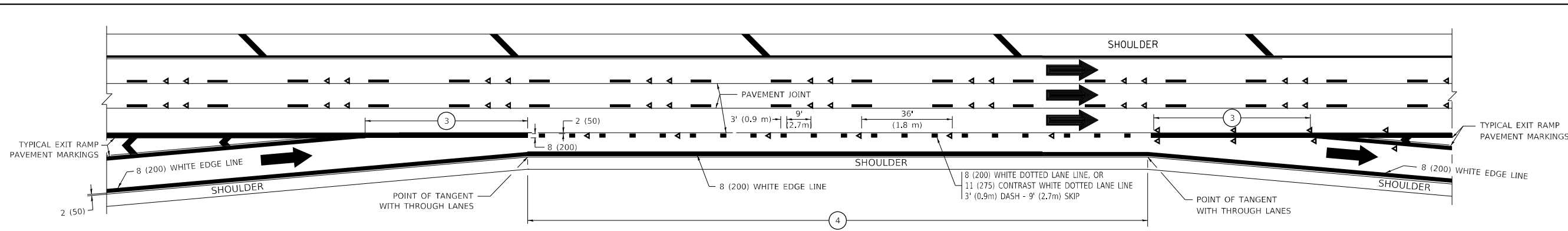
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	DATE - 02-87	REVISED - M.D. 06-13

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

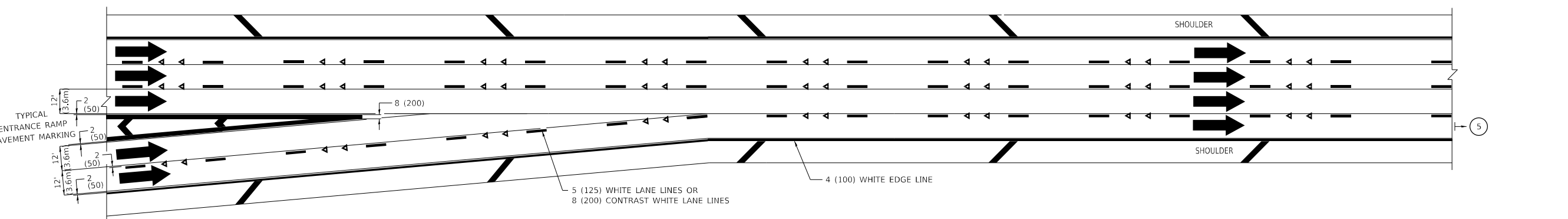
**TRAFFIC CONTROL DETAILS FOR
FREEWAY SINGLE & MULTI-LANE WEAVE**

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

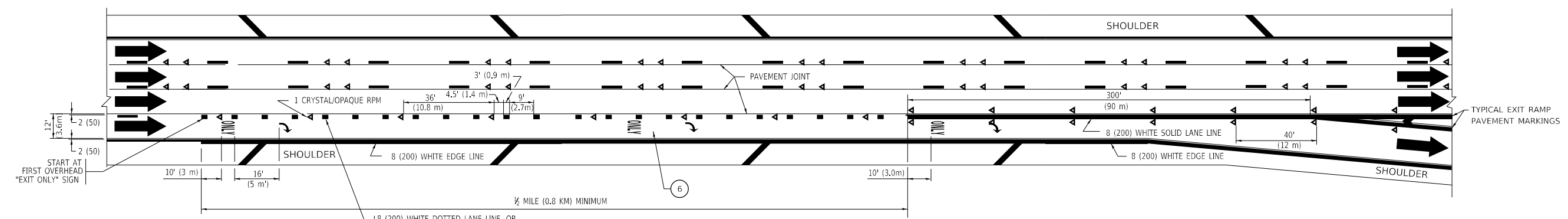
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	FAI 290 22 BJ	DUPAGE	35	35A
TC-09		CONTRACT NO. 62196		
ILLINOIS FED. AID PROJECT				



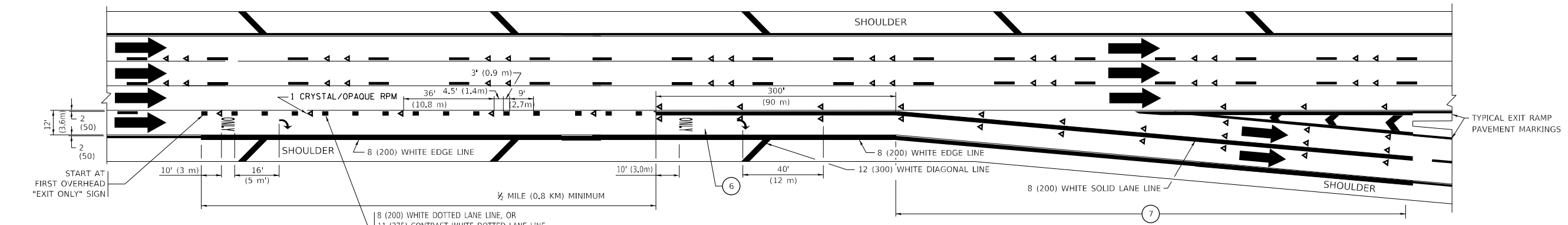
AUXILIARY LANE MARKINGS



TWO LANE ENTRANCE RAMP WITH MERGE MARKINGS



EXIT ONLY LANE MARKINGS



EXIT ONLY WITH OPTION LANE MARKINGS

- NOTES:**
- ③ OMIT WHEN LENGTH OF AUXILIARY LANE IS LESS THAN 500' (150 m).
 - ④ 8-INCH WIDE DOTTED LANE LINE MARKINGS SHALL BE USED WHEN THE LENGTH OF THE AUXILIARY LANE IS 2 MILES OR LESS.
 - ⑤ FOR TWO-LANE ENTRANCE RAMP, IF RIGHT LANE ENDS, USE TYPICAL ENTRANCE RAMP PAVEMENT MARKINGS.
 - ⑥ ONLY AND ARROWS EQUALLY SPACED, 500' (150 m) MAXIMUM SPACING. FULL SIZE LETTERS AND ARROW SHALL BE USED.
 - ⑦ CONTINUE 8" SOLID LANE LINE THROUGH EXIT TO END OF PAVED GORE.

MODEL: D:\draft...
 FILE NAME: ...
 PROJECT: ...
 DATE: 3/4/2019

USER NAME = footem	DESIGNED - D.W.S.	REVISED - J.A.F. 02-06
	DRAWN -	REVISED - S.P.B. 01-07
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED - S.P.B. 01-10
PLOT DATE = 3/4/2019	DATE - 01-90	REVISED - M.D. 09-17

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MULTI-LANE FREEWAY
PAVEMENT MARKING DETAILS**

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

F.A.I. RTE. 290	SECTION FAI 290 22 BJ	COUNTY DUPAGE	TOTAL SHEETS 35	SHEET NO. 35C
TC-12		CONTRACT NO. 62T96		
ILLINOIS		FED. AID PROJECT		