04-29-2022 LETTING ITEM 126

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AR. SECTION COUNTY TOTAL SHEET NO.

/AR. 2021-160-BP VAR. 45 1

| ILLINOIS CONTRACT NO. 62P82

D-91-061-22

FOR INDEX OF SHEETS, SEE SHEET NO. 2

IMPROVEMENTS ARE LOCATED IN THE CITY OF ROLLING MEADOWS AND THE VILLAGES OF SCHAUMBURG, MELROSE PARK FRANKLIN PARK AND ADDISON.

# PROPOSED HIGHWAY PLANS

**ROUTES: FAI 290, FAU 2714 (I–290, 25th AVENUE** 



TRAFFIC DATA:

0

0

I-290 2019 ADT: 156,000

POSTED SPEED LIMIT: 55-60MPH

IL 58 (GOLF ROAD) 2019 ADT: 42,600 POSTED SPEED LIMIT: 40–45MPH

25TH AVENUE 2018 ADT: 17,900

**POSTED SPEED LIMIT: 35MPH** 

I-355

2019 ADT: 142,300

POSTED SPEED LIMIT: 55MPH

IMPROVEMENT LOCATION 2: 25TH AVENUE AT IHB RR VILLAGE OF MELROSE PARK VILLAGE OF FRANKILIN PARK SN: 016–1011

**IMPROVEMENT LOCATION 1:** 

CITY OF ROLLING MEADOWS

I-290 AT IL 58 (GOLF RD)

VILLAGE OF SCHAUMBURG

SN: 016-0980

IMPROVEMENT LOCATION 3: I-290 (EB) OVER I-355 VILLAGE OF ADDISON SN: 022-0092

IMPROVEMENT LOCATION 4: I-290 (WB) RAMP TO I-355 (SB) VILLAGE OF ADDISON SN: 022-0094 R 10 E R 11 E R 12 E

PALATINE B STATE OF THE HOTTON STATE OF THE

ADDISON, SCHAUMBURG, ELK GROVE AND LEYDEN TOWNSHIP

J.U.L.I.E.

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS
1-800-892-0123

OR 811

PROJECT ENGINEER: RODRIGO LEDEZMA (847) 705–4580 PROJECT MANAGER: J. ALAIN MIDY (847) 221–3056

CONTRACT NO. 62P82

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED 28 20 22

REGIONAL ENGINEER

March 25 22

ENGINEER OF DESIGN AND ENGINEER

March 25 22

DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

LOCATION OF SECTION INDICATED THUS: -

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

#### **INDEX OF SHEETS**

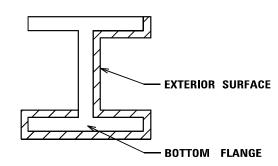
- 1. TITLE SHEET
- 2. INDEX OF SHEETS, STATE STANDARDS, GENERAL NOTES AND GENERAL PAINT NOTES
- 3. SUMMARY OF QUANTITIES
- 4-13. LOCATION 1 (SN 016-0980)
- 14-21. LOCATION 2 (SN 016-1011)
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  - 40. ENTRANCE AND EXIT RAMP CLOSURE DETAILS (TC-08)
  - 41. TRAFFIC CONTROL DETAILS FOR FREEWAY SINGLE LANE AND MULTI-LANE WEAVE (TC-09)
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  - 44. TRAFFIC CONTROL FOR FREEWAY SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES (TC-17)
  - 45. ARTERIAL ROAD INFORMATION SIGN (TC-22)

#### **GENERAL NOTES**

- BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS UTILITIES. (48 HOUR NOTIFICATION IS REQUIRED).
- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, THE CITY OF ROLLING MEADOWS AND THE VILLAGES OF SCHAUMBURG, MELROSE PARK, FRANKLIN PARK AND ADDISON.
- THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL THE DIMENSIONS & CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION & ORDERING OF
- THESE PLANS HAVE BEEN PREPARED FROM NOTES RECEIVED FROM THE BUREAU OF MAINTENANCE BRIDGE INSPECTORS.
- DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
- THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV FOR ARTERIALS A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
- THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4151 FOR EXPRESSWAYS A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
- 10. THE CONTRACTOR SHALL REQUEST AND GAIN APPROVAL FROM THE ILLINOIS DEPARTMENT OF TRANSPORTATION'S EXPRESSWAY TRAFFIC OPERATIONS ENGINEER AT (847-705-4151 OR 4155) OR WWW.IDOTLCS.COM AT LEAST (24) HOURS IN ADVANCE OF ALL DAILY LANE, AND RAMP AND SHOULDER CLOSURES.
- 11. THE "ARTERIAL ROAD INFORMATION SIGN (TC-22)" IS APPLICABLE ONLY TO ARTERIAL ROADS AND SHALL NOT BE APPLIED TO EXPRESSWAYS.
- 12. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
- 13. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROTECT AND PRESERVE THE EXISTING BRIDGE LIGHTING AT ANY LOCATIONS THAT LIGHTING IS ENCOUNTERED ADJACENT TO AN AREA TO BE CLEANED AND PAINTED.
- 14. THE CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO INSURE THAT NO DEBRIS WILL ENDANGER OR INTERFERE WITH TRAFFIC ON THE ROADWAY BENEATH THE BRIDGE ACCORDING TO ARTICLE 107.09 OF THE STANDARD SPECIFICATIONS. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE APPROPRIATE PAY ITEM INVOLVED AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- 15. CONTRACTOR SHALL MAINTAIN PEDESTRIAN ACCESS AT ALL TIMES DURING CONSTRUCTION.

#### **GENERAL NOTES FOR PAINT**

- 1. CLEANING AND PAINTING OF THE EXISTING STRUCTURAL STEEL SHALL BE AS SPECIFIED IN THE SPECIAL PROVISION FOR "CLEANING AND PAINTING EXISTING STEEL STRUCTURES".
- THE AREAS DESIGNATED SHALL BE CLEANED PER NEAR WHITE BLAST CLEANING -SSPC-SP10. THE AREAS DESIGNATED SHALL BE PAINTED ACCORDING TO THE REQUIREMENTS OF PAINT SYSTEM 1 -OZ/E/U. THE COLOR OF THE FINAL FINISH COAT FOR ALL INTERIOR STEEL SURFACES SHALL BE GRAY, MUNSELL NO 5B 7/1. THE COLOR OF THE FINAL FINISH COAT FOR EXTERIOR AND BOTTOM FLANGE OF THE FASCIA BEAMS SHALL BE REDDISH BROWN, MUNSELL NO 2.5YR 3/4.
- ALL ITEMS (SUCH AS, BUT NOT LIMITED TO: CONDUITS, BRACKETS AND DECK DRAINS) ATTACHED TO OUTSIDE OF THE FASCIA BEAMS SHOULD BE CLEANED AND PAINTED.
- LOCATION 1 (SN 016-0980): (2 DECK JOINT OPENINGS) ALL BEAMS, BEARINGS AND OTHER STRUCTURAL STEEL WITHIN 5 FEET (MEASURED ALONG THE BEAM) OF EITHER SIDE OF ALL DECK JOINTS, SHALL BE CLEANED PER NEAR WHITE BLAST CLEANING SSPC-SP10.
- LOCATION 2 (SN 016-1011): (6 DECK JOINT OPENINGS) ALL BEAMS, BEARINGS AND OTHER STRUCTURAL STEEL WITHIN 5 FEET (MEASURED ALONG THE BEAM) OF EITHER SIDE OF ALL DECK JOINTS, SHALL BE CLEANED PER NEAR WHITE BLAST CLEANING SSPC-SPIO. THE EXTERIOR SURFACES AND TOP AND BOTTOM OF THE BOTTOM FLANGE OF THE FASCIA BEAMS OUTSIDE THE DECK JOINTS FOR THE LENGTH OF THE BRIDGE (SEE FIGURE 1) SHALL BE CLEANED PER NEAR WHITE BLAST CLEANING SSPC-SPIO.
- LOCATION 3 (SN 022-0092): (2 DECK JOINT OPENINGS) ALL BEAMS, BEARINGS AND OTHER STRUCTURAL STEEL WITHIN 10 FEET (MEASURED ALONG THE BEAM) OF EITHER SIDE OF ALL DECK JOINTS, SHALL BE CLEANED PER NEAR WHITE BLAST CLEANING SSPC-SP10. CROSS GIRDERS SHALL BE CLEANED PER NEAR WHITE BLAST CLEANING SSPC-10.
- 7. LOCATION 4 (SN 022-0094): (3 DECK JOINT OPENINGS) ALL BEAMS, BEARINGS AND OTHER STRUCTURAL STEEL WITHIN 10 FEET (MEASURED ALONG THE BEAM) OF EITHER SIDE OF ALL DECK JOINTS, SHALL BE CLEANED PER NEAR WHITE BLAST CLEANING SSPC-SP10.



### FASCIA BEAM PAINTING DETAIL FIGURE 1



SURFACE TO BE CLEANED AND PAINTED

### **STATE STANDARDS**

FILE NAME

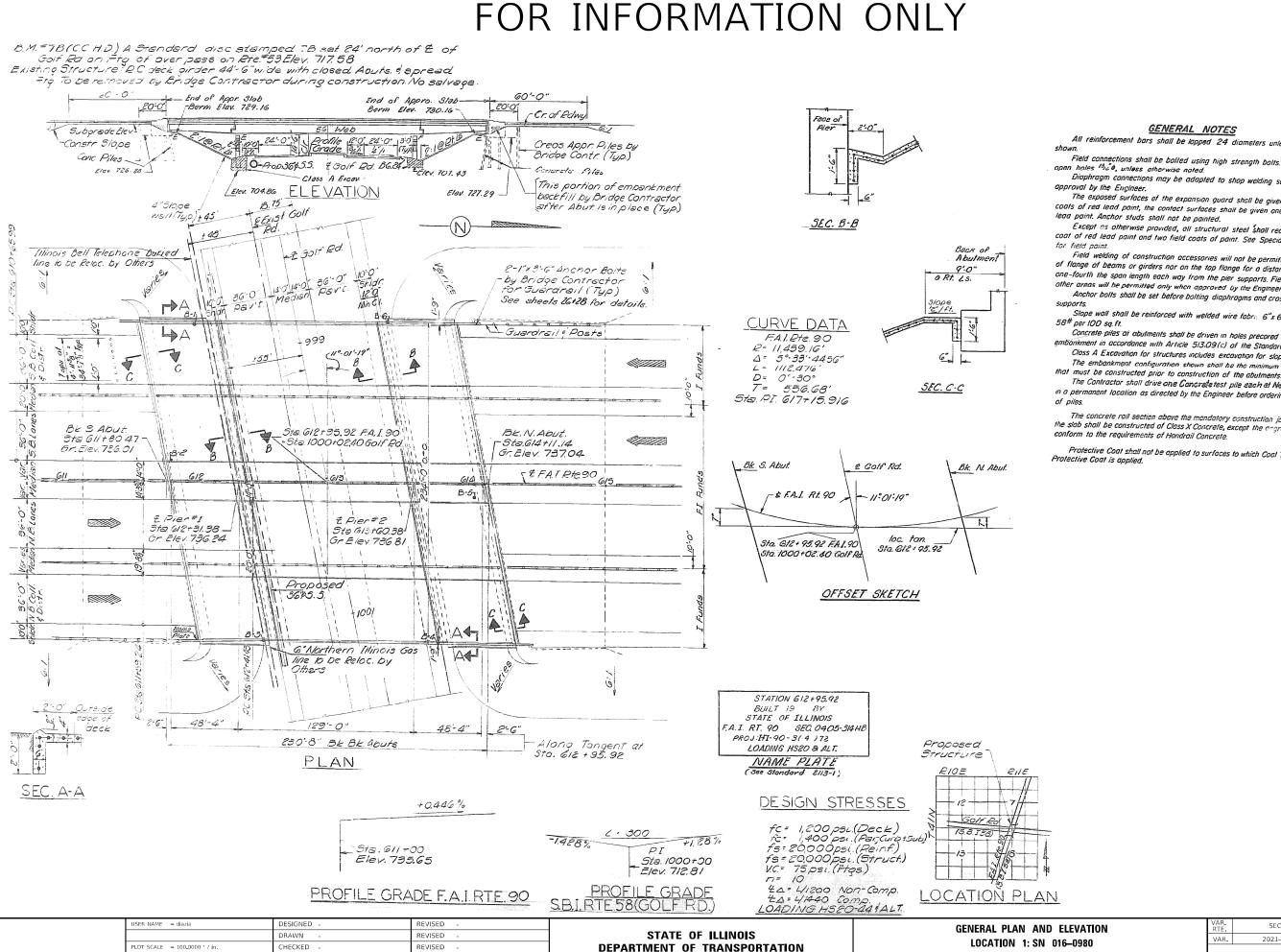
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STANDARD NO.	DESCRIPTION
701101-05	OFF-ROAD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
701106-02	OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' AWAY
701400-11	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-13	LANE CLOSURE, FREEWAY/EXPRESSWAY
701411-09	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS > 45 MPH
701428-01	TRAFFIC CONTROL, SETUP AND REMOVAL, FREEWAY/EXPRESSWAY
701446-11	TWO LANE CLOSURE, FREEWAY/EXPRESSWAY
701601-09	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
701606-10	URBAN SINGLE LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-08	TRAFFIC CONTROL DEVICES

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INDEX OF SHEETS, STATE STANDARDS,									
GI	VAR.								
<u>.</u>	GENERAL NOTES AND GENERAL PAINT NOTES								
	SHEET 1	OF	1	SHEETS	STA.	TO STA.			

	SUMMARY OF QUANTITIES				ONSTRUCTIO		ODE		TARAMAI 12	RY OF QUANTITIES						N TYPE CODE
	SUMMANT OF GRANTITIES	URBAN T <b>OTAL</b>	0047 BRIDGE	0047 BRIDGE 2	0047 BRIDGE	0047 BRIDGE			JUMMAR	TOF QUANTITIES		URBAN TOTAL	0047 BRIDGE	0047 BRIDGE 2	0047 BRIDGE	0047 BRIDGE
CODE NO	ITEM UNI		S 016-0980	016-1011 80% FED TE 20% STATE	022-0092	022-0094	<u> </u>	CODE NO		ITEM	UNIT	OLIANTITIES	016-0980	016-1011	3 022-0092 90% FED 10% STATE	022-0094
67100100	MOBILIZATION L SI	M 1	0. 25	0.25	0.25	0.25		X6700407	ENGINEER'S F	IELD OFFICE, TYPE A (D1)	CAL MO	12	3	3	3	3
70102625	TRAFFIC CONTROL AND PROTECTION, L SI	M 1		1				X7011015	TRAFFIC CONT	ROL AND PROTECTION	L SUM	1			0.5	0.5
	STANDARD 701606								( EXPRESSWAYS:	)						
70102630	TRAFFIC CONTROL AND PROTECTION, L S	M 1	1					Z0010501	CLEANING AND	PAINTING STEEL BRIDGE NO.	L SUM	1	1			
	STANDARD 701601								1							
70102635	TRAFFIC CONTROL AND PROTECTION, L SI	M 1	0.5	0.5				Z0010502	CLEANING AND	PAINTING STEEL BRIDGE NO.	L SUM	1		1		
	STANDARD 701701								2							
70102640	TRAFFIC CONTROL AND PROTECTION, L SI	M 1	0.5	0.5				Z0010503	CLEANING AND	PAINTING STEEL BRIDGE NO.	L SUM	1			1	
	STANDARD 701801								3							
70200100	NIGHTTIME WORK ZONE LIGHTING L SI	M 1	0.34		0.33	0.33		Z0010504	CLEANING AND	PAINTING STEEL BRIDGE NO.	L SUM	1				1
x5060601	CONTAINMENT AND DISPOSAL OF NON-LEAD L SE	M 1	1					Z0030850	TEMPORARY INI	FORMATION SIGNING	SQFT	102.8	51.4	51.4		
	PAINT CLEANING RESIDUES NO. 1							Z0048665	RAILROAD PRO	TECTIVE LIABILITY INSURANCE	L SUM	1		1		
x5060602	CONTAINMENT AND DISPOSAL OF NON-LEAD L SI	M 1		1				Ø 20076600	TRAINEES		HOURS	500	500			
	PAINT CLEANING RESIDUES NO. 2							<b>Z</b> Z0076604	TRAINEES - TRAI	INING PROGRAM GRADUATE	HOURS	500	500			
x5060603	CONTAINMENT AND DISPOSAL OF NON-LEAD L SI	M 1			1											
	PAINT CLEANING RESIDUES NO. 3															
x5060604	CONTAINMENT AND DISPOSAL OF NON-LEAD L SI	M 1				1										
	PAINT CLEANING RESIDUES NO. 4															
																<b>Ø</b> 0042
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DATE

All reinforcement bars shall be lapped 24 diameters unless otherwise

Field connections shall be bolted using high strength bolts. Bolts 4 4, open holes 13,60, unless otherwise noted.

Diaphragm connections may be adapted to shop welding subject to approval by the Engineer.

The exposed surfaces of the expansion guard shall be given two shop coals of red lead point, the contact surfaces shall be given one coat of red lead paint. Anchor studs shall not be painted.

Except as otherwise provided, all structural steel shall receive one shop coat of red lead paint and two field coats of paint. See Special Provisions

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

Anchor bolts shall be set before bolting diaphragms and cross frames over

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

Concrete piles at abutments shall be driven in holes precored through the embankment in accordance with Article 513.09(c) of the Standard Specications.

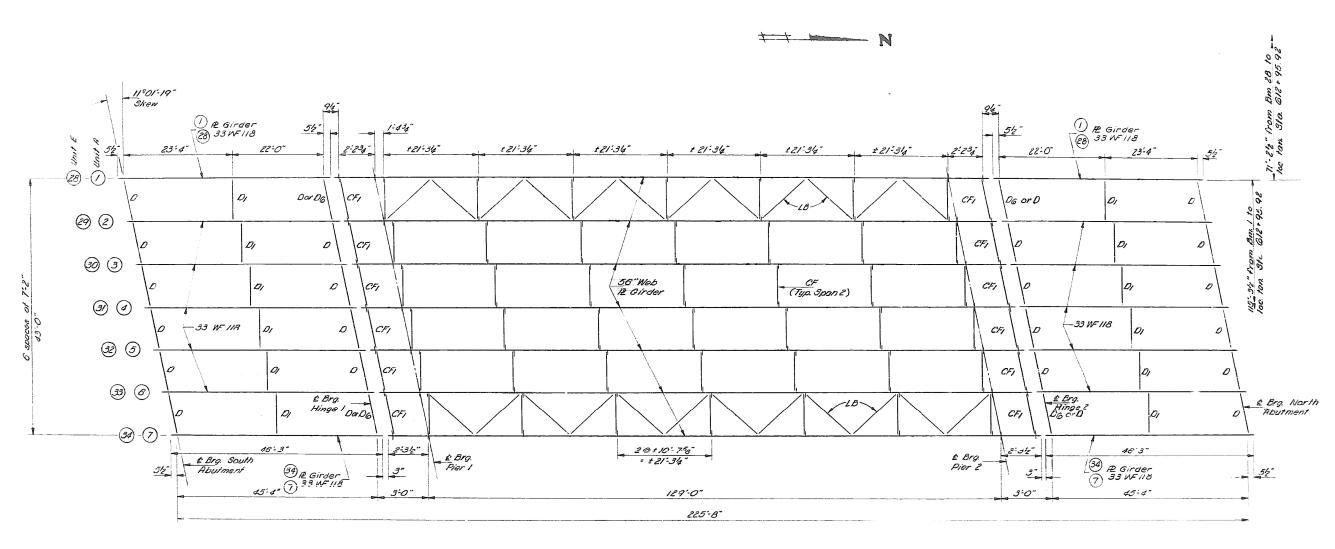
Class A Excavation for structures includes excavation for slope wall. The embankment configuration shown shall be the minimum embankment

The Contractor shall drive one Concrete test pile each at No. \$ So. Abut. in a permanent location as directed by the Engineer before ordering the remainder

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

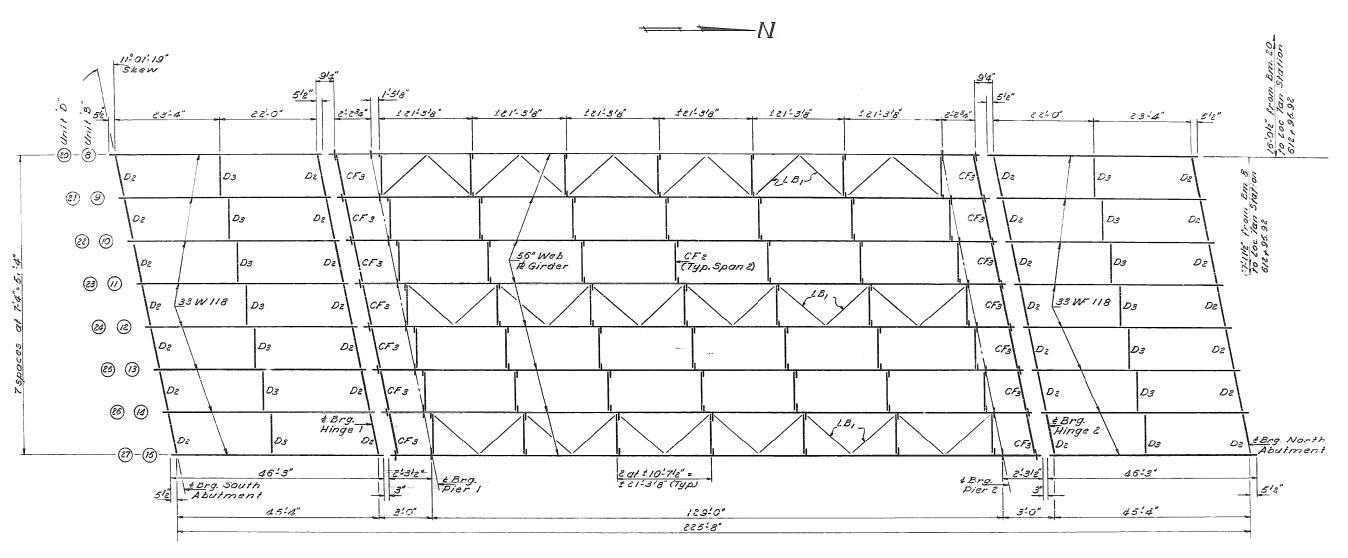
Protective Coat shall not be applied to surfaces to which Coal Tar Interlayer

SECTION 2021-160-PB VAR 45 4 CONTRACT NO 62P82



PLAN

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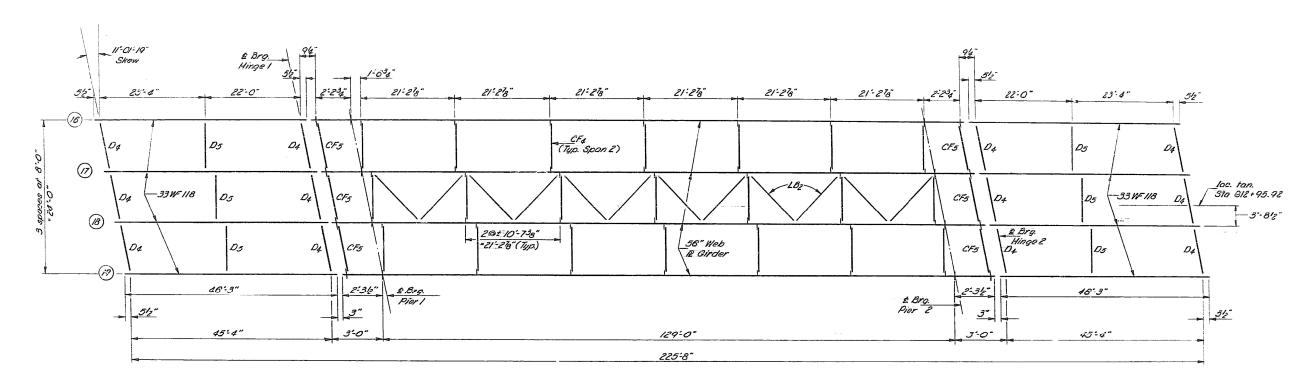


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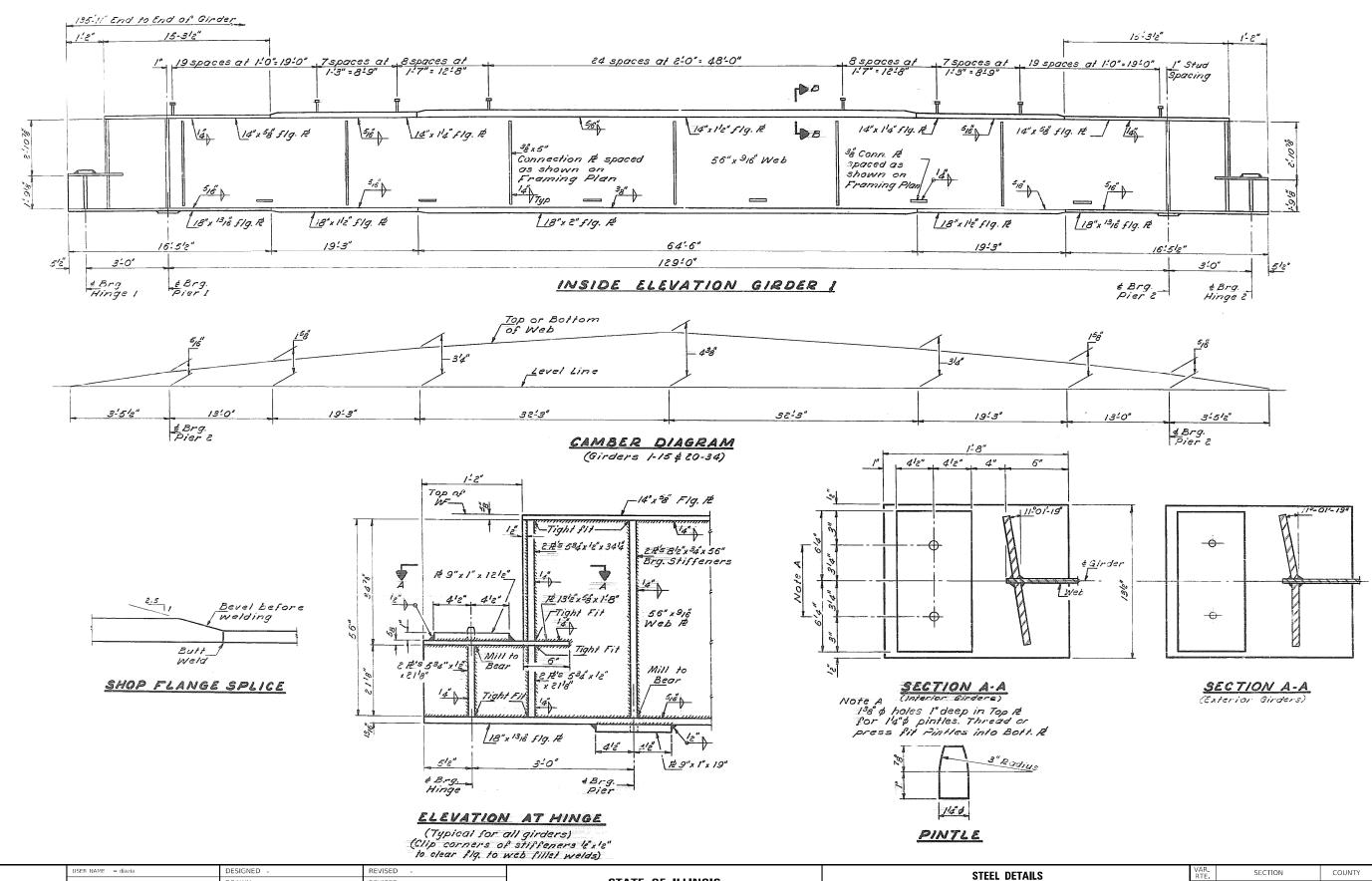
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PLAN

DESIGNED -REVISED SECTION STEEL FRAMING PLAN STATE OF ILLINOIS DRAWN REVISED 2021-160-PB VAR. 45 7 LOCATION 1: SN 016-0980 **DEPARTMENT OF TRANSPORTATION** CHECKED REVISED CONTRACT NO. 62P82 DATE OF SHEETS STA. TO STA.



STATE OF ILLINOIS

**DEPARTMENT OF TRANSPORTATION** 

2021-160-PB

LOCATION 1: SN 016-0980

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CONTRACT NO. 62P82

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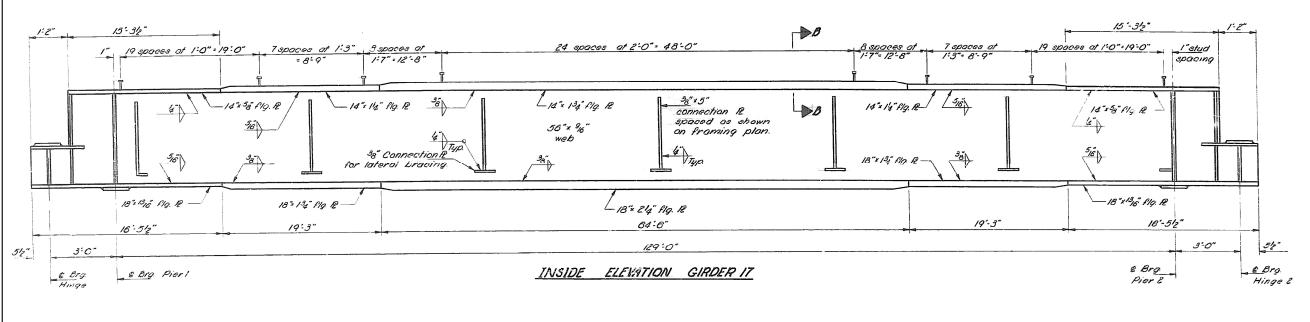
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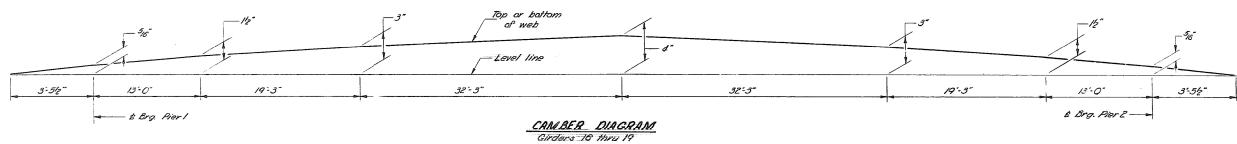
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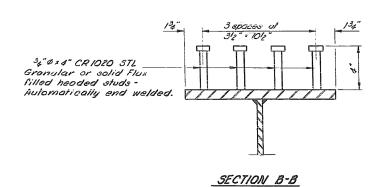
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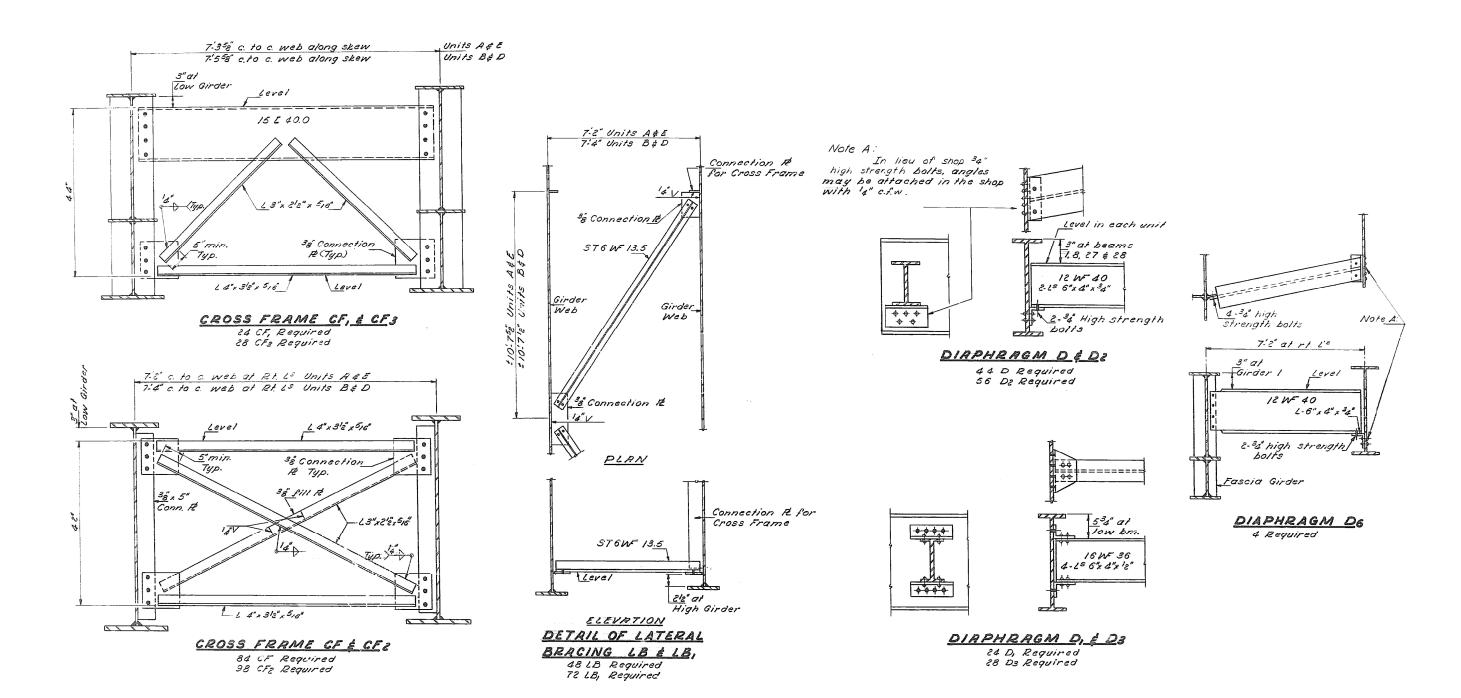


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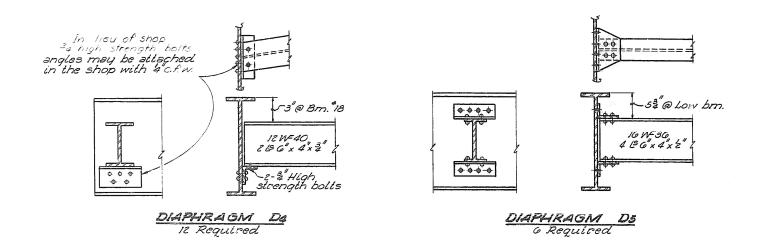
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DEPARTMENT OF TRANSPORTATION	

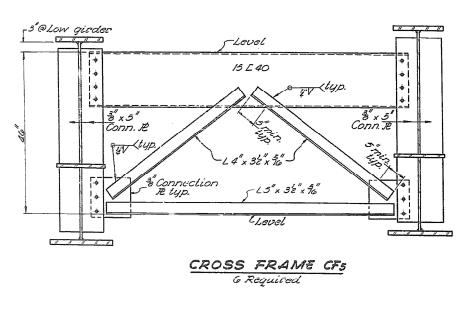
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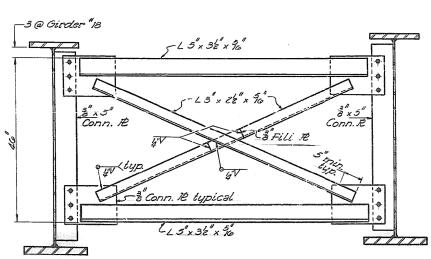
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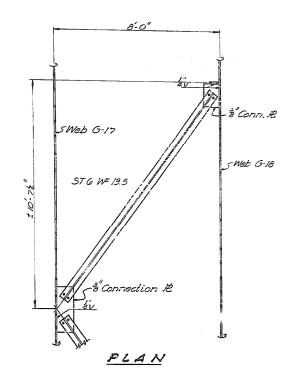


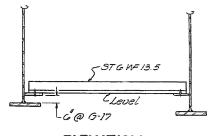
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ELEVATION

DETAIL OF LATERAL BRACING LB2 12 Required

CROSS FRAME CF4

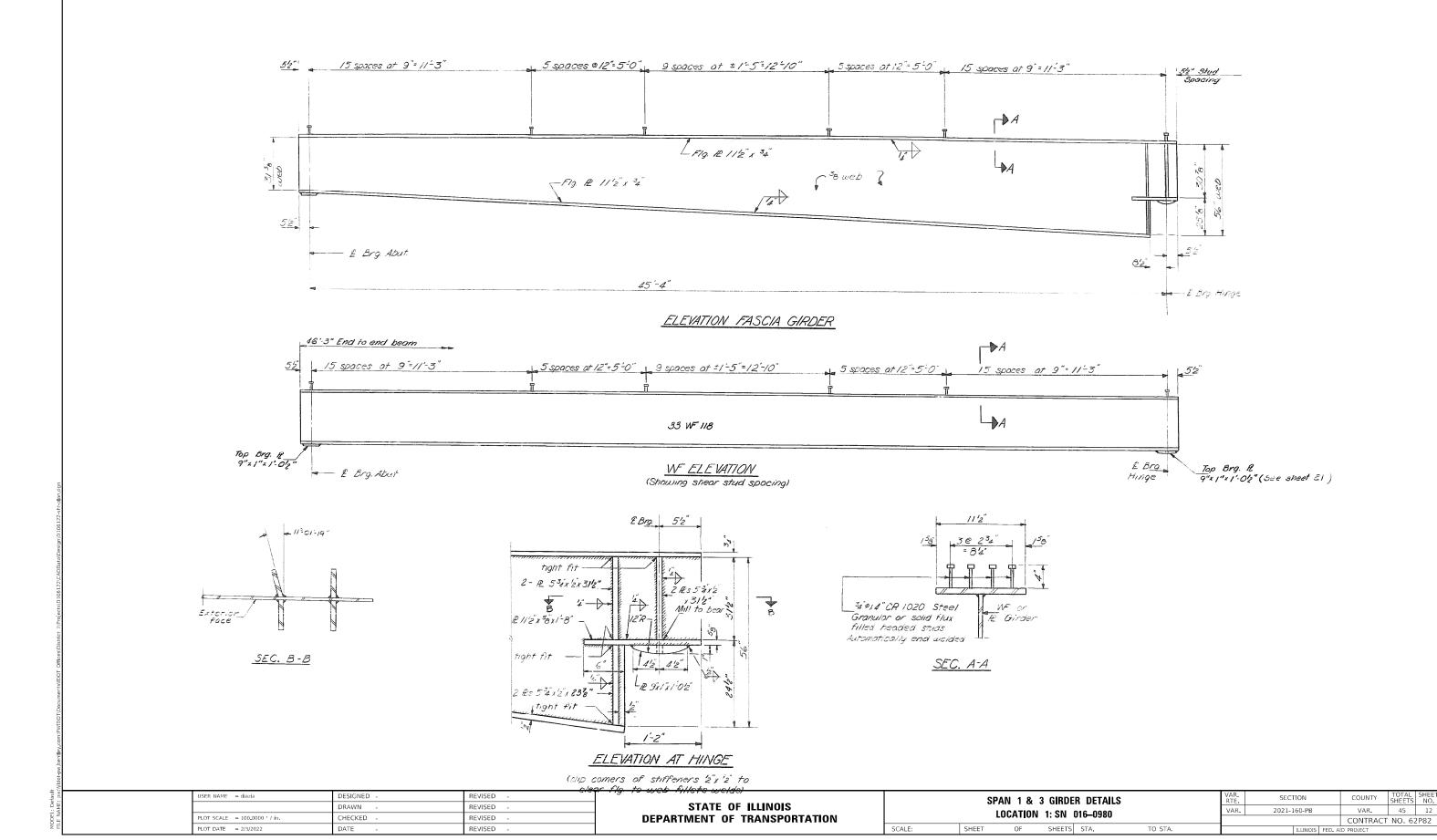
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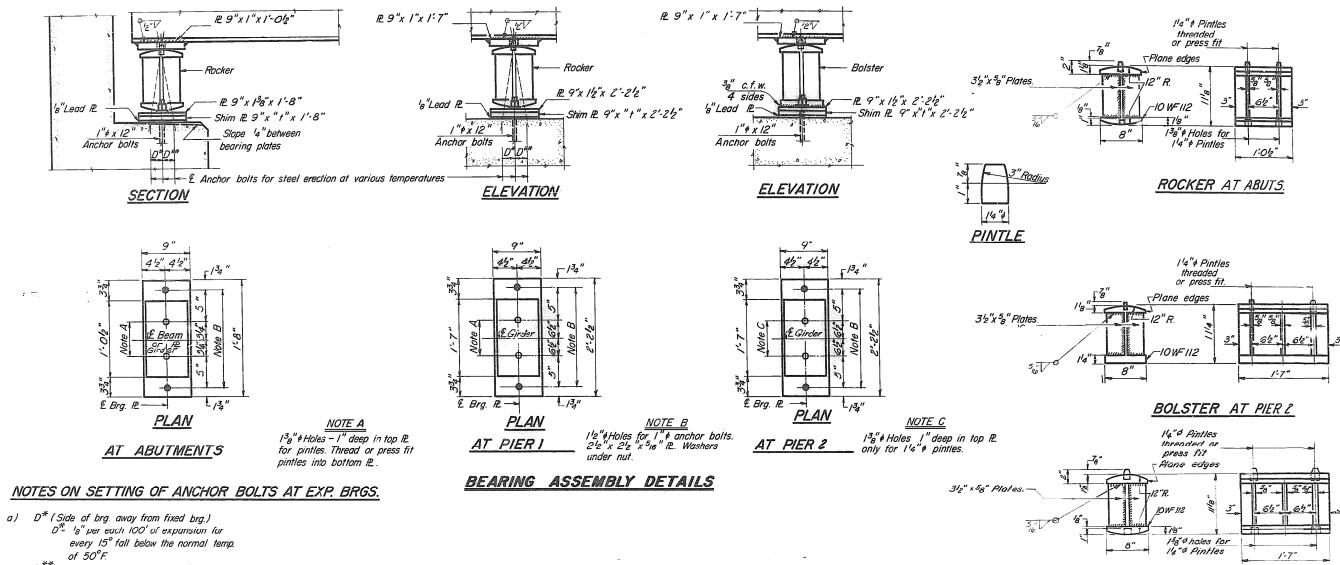
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VAR. 45 11 CONTRACT NO. 62P82





D\*\*(Side of brg. toward fixed brg.) D\*\* = 'e" per each IOO' of expansion for every 15° rise above the normal temp.

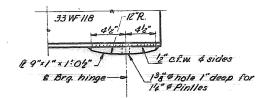
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b) After beams have been erected and dimensions D\*or D\*\* determined, holes shall be drilled and anchor bolts shall be grouted in place. All fixed anchor bolts may be built into the masonry.

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& Bro. South Abut.	0-	172	' 0"	130	" (	7"	1324	30"	0"	150	0"	2"	0"	139"	50"	2"	0"			2"	0"	13,00	0"	135	0"	0"	0"	0	8	0"	0"	0"	13	2"	3
& Bro Pier I	0"	131	" 0"	13,	2" C	7"	1/2"	0"	0"	115	0"	2"	0"	130	0"	135	0"	0"	0"	218"	0"	137	0"	13"	158	0"	0"	0"	0"	18	0"	Ιŝĝ	<i>'a</i> "	130	0
& Brg. Pier 2	0"	18	0"	138	" (	2" .	138"	0"	0"	14	0	28	0"	138	0"	138"	0"	0"	0"	2"	0	13"	0"	133	13;"	0"	0"	0"	0"	12"	0"	138	1"	12	0
& Bro. North Abut.	0"	18	" 0"	13	" (	2"	138"	14"	0"	138"	0"	2"	0"	13	59"	2"	0"	0"	0"	2"	0"	13"	0"	138"	0"	0"	0"	0	78"	0"	0	0"	130	2"	14

SHEET



SECTION AT HINGE

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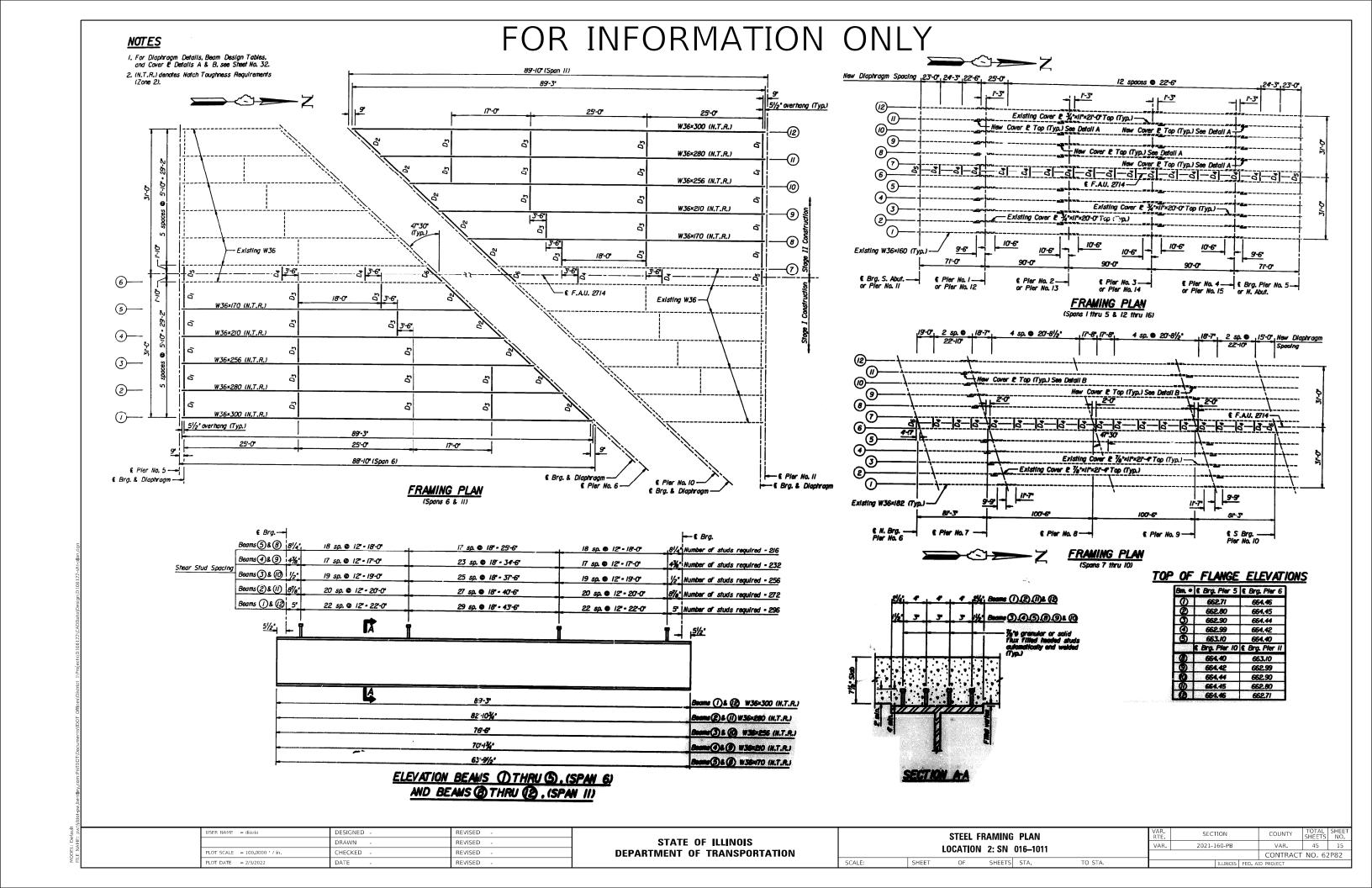
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DEPARTMENT OF TRANSPORTATION	

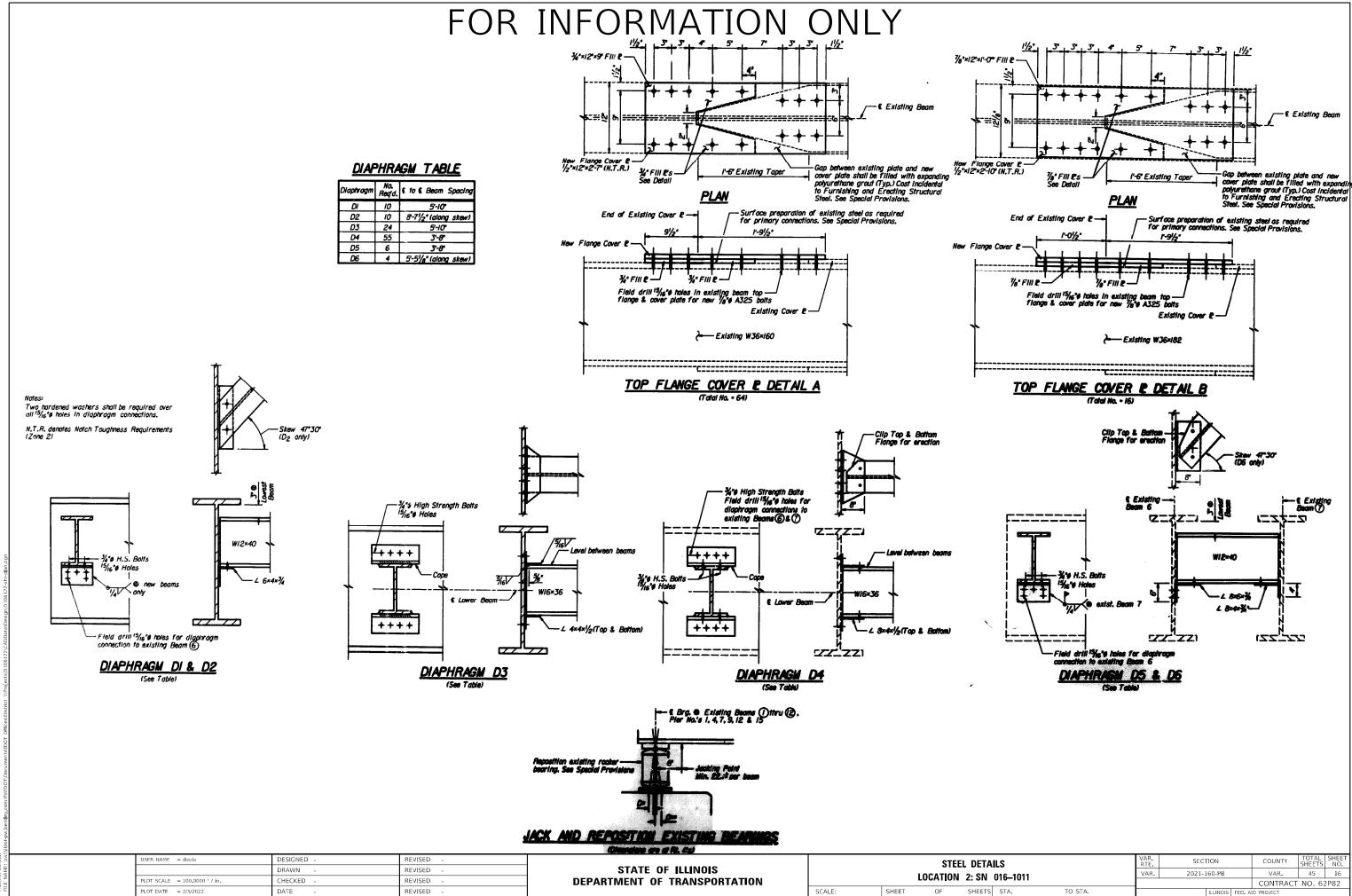
BEARING DETAILS				VAR. RTE.	SECT	ПОИ		COUNTY	TOTAL SHEETS	SHEET NO.	
LOCATION 1: SN 016-0980			VAR.	2021-1	60-PB		VAR.	45	13		
								CONTRACT	NO. 62	2P82	
OF	SHEETS	STA.	TO STA.				ILLINOIS	FED. A	D PROJECT		

ROCKER AT PIER I

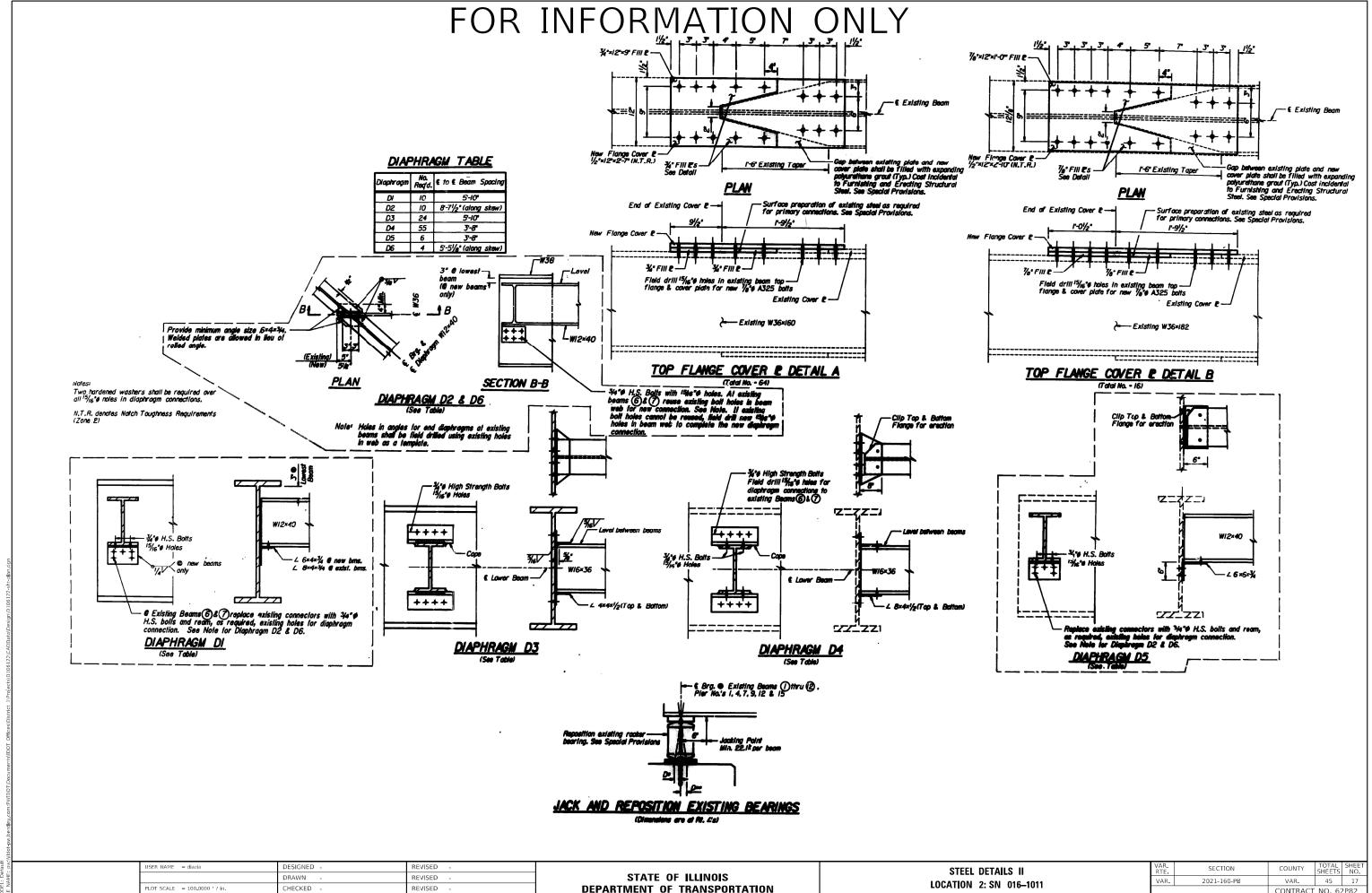
Existing Structure Structure No. 016-1011, built as 25th Avenue and Armitage Ave. Elev. 637.23

Existing Structure No. 016-1011, built as 25th Avenue. Section 020-1010.2MFT in 1965 is 66-0' wide by 1302-6' long, The existing sixteen span relinforced concrete deck and steel wide flange beams are supported on multiple column piers and closed abutments. The existing concrete deck shall be removed. Five beams in Span II shall be replaced with new W35 steel beams. Existing expansion bearings below deck Joints shall be replaced. Existing abutments and piers shall be repaired. A new 66-0' wide composite concrete deck shall be constructed. Existing abutments, piers, and steel beams shall be incorporated into new construction. Traffic shall be staged during construction. 5 New W36 Beams, East Side -- 5 New W36 Beams, West Side New Northeast Retaining Wall -22'-II'\* min. cir. -22'-6"± min. cir. Modified Existing Southeast - & Southwest Retaining Walls. (S.N. Ol6-W507) and Modified Northwest Retaining Wall. See Sheet No. 67 of 89. See Sheet No. 67 of 89. ₩36 Typ. (Exist.) 12-0 ± @ Rt. 4's 16-3' + @ Rt. 4's Min. Cir. Min. Cir. 13'-6" + @ Rt. 4's Min. Cir. Min. Cir. **ELEVATION** Drcinage Scupper (Special)
Spacing 77'-6° 82-0° 98'-O' 82-0° 76'-0" 54'-0" 65'-0" 39-0° 85'-6° 79-9° 82-0 98'-0" 82-O € Pier No. 7 (Exist.) Sta. 37+72.90 € Pier No. 15 (Exist.) | Sto. 44+56,92 | El. 651.19 EI. 666.15 € Pler No. 6 (Exist.) Sta. 36+90.90 El. 664.94 Bk. North Abut. (Exist.) |Sta. 45+30.13 € Pler No. I (Exist.)
510. 32+96.42 € Pier No. 10 (Exist.) Sta. 40+55.90 <u>€ Pier No. II (Exist.)</u> |Sta. 41+15.17 | El. 663.80 © Pler No. 13 (Exist.) |Sta. 42•76.92 |El. 658.53 | € Pier No. 3 (Exist.) Sta. 34-76.42 € Pier No. 5 (Exist.) Sta. 36+38.17 € Structure ' EI. 648.20 El. 651.19 El. 665.06 | -30-0 Approach Pvmt. Std. 2442 (Special) EI. 658.53 EI. 663.80 <u>€ Pier No. 8 (Exist.)</u> Sta. 38+73.40 Bk. South Abut. (Exist.) Sta. 32-23.21 € Pier No. 9 (Exist.) Sta. 39•73.90 § Pier No. 2 (Exist.) Sta. 33-86.42 € Pler No. 4 (Exist.) Sta. 35:66.42 € Pler No. 12 (Exist.) | Sta. 41+86.92 | | | El. 661.79 | | <u>€ Pier No. 14 (Exist.)</u> | Sta. 43+66.92 | El. 666.70 El. 666.22 FI. 648.20 E1. 654.86 El. 654.86 Modified Existing Retaining Wall-12-0'± Modified Existing Retaining (Typ.) See Sheet No. 67 of 89 Wall (See Sheet No. 67 of 89) Temporary Sheet Piling Pt. of Min. Vert required for construction of retaining wall Cir. 22'-11'+ min. cir. 30-0 Appr. Pvmt. 42° 30' (Typ. for Pier No.'s 6 thru (0) (See Sheet No. 67 of 89) − *16'-3*'± Std. 2442 (Specia F.A.U. 2714 & Stage Construction Line -- <u>B-</u>6.24 Curb & Gutter (Typ.) B6.12 Curb & Gutter Typ .--- 4-5" Sidawalk (Typ.) Northeast Retaining Wall 4-5's Sidewalk Typ. (Exist.) -- Light Pole (Typ.) Sta. 32•40 -Pt. of Min. (S.N. 0:6-W507) - Sta. 34-20 - Sta. 36+03 Sta. 45-00 -See Sheet No. 67 of 89 Vert. Cir. 22-6's & Brg. South Abut. (Exist.) -Sta. 39<del>:6</del>6 & Brg. North Abut. (Exist.) Sta. 45-27.92 El. 648.29 Drainage Scuppe 82-0° 98-0 82-O El. 648.29 42-0 60'-0" 44-6° 7**9-9** 82-0° 90°-0° 90°-0° 90'-0" 71'-9" 52-8¾\* 82-0° 100-6 100'-6" 82-0° 59-31/4" 71'-9" 90'-0" 90'-0" 90°-0° 7*1*'-0" 4-5" Sidewalk (Typ.)-Span Span 2 Span 3 Span 4 Span 6 Span 7 Span 8 Span 9 Span 10 Span II Span 12 Span 13 Span 15 Span 14 Span 16 Dimensions along
Profile Grade line 2-21/20 412-9 Single Span 365'-0° Single Spar 412-9° 2-21/2" 5 Span Continuous Composite 4 Span Continuous Composite Composite 5 Span Continuous Composite 1306-II" Bk. to Bk. Abutments <u>PLAN</u> V.C. - 800 PROFILE GRADE E.A.V. 2714 V.C. - 300 <u>location plai</u> DESIGNED REVISED SECTION **GENERAL PLAN AND ELEVATION** STATE OF ILLINOIS DRAWN REVISED 2021-160-PB VAR. 45 14 LOCATION 2: SN 016-1011 HECKED REVISED **DEPARTMENT OF TRANSPORTATION** CONTRACT NO. 62P82 SCALE: PLOT DATE = 2/3/2022 SHEETS STA. TO STA. DATE REVISED





MODEL: Default



PLOT DATE = 2/3/2022

DATE

REVISED

LOCATION 2: SN 016-1011

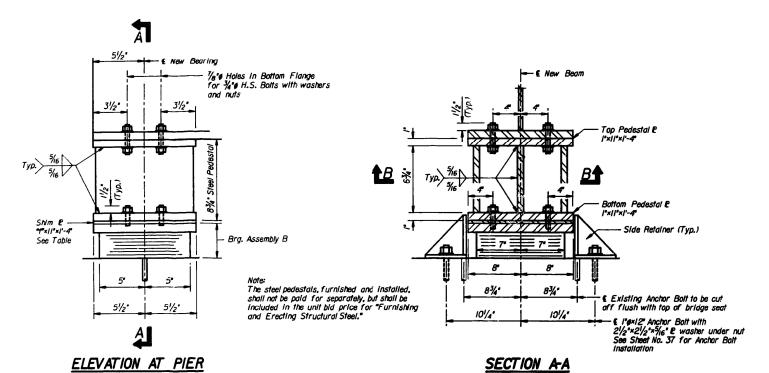
TO STA.

CONTRACT NO. 62P82

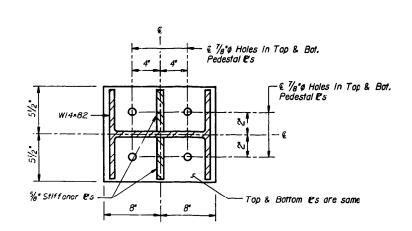
**DEPARTMENT OF TRANSPORTATION** 

SHEET OF SHEETS STA.

SCALE:



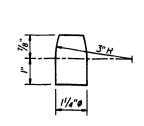
TYPE I ELASTOMERIC EXP. BEARING AT NEW BEAMS () THRU (5), SPAN 6, PIER 5 AT NEW BEAMS (8) THRU (2), SPAN II, PIER II



#### REQUIRED SHIM PLATE TABLE

Ream No	Plate Thick	rness "f"
560III 110.	Plar 5, Span 6	Pler 6, Span 6
0	O'	O'
2	<b>%</b> °	%⁴
3	<b>1/6</b> °	<b>1/8</b> *
•	11/8"	/*
<b>⑤</b>	2%*	115/16*
	Pier IO. Span II	Pier II, Span II
8	115/16°	2%'
9	/*	11/8"
0	<b>1/6</b> *	<b>1/6</b> *
0	5%°	₩*
<b>@</b>	o	O'

#### SECTION B-B



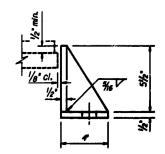


DESIGNED -

DRAWN

CHECKED

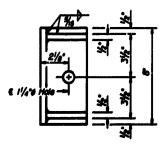
DATE



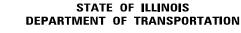
REVISED

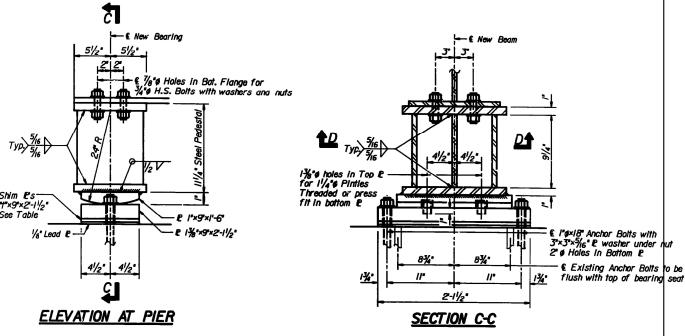
REVISED

REVISED

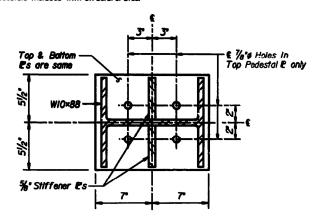


SIDE RETAINER Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates. Weight included with Structural Steel

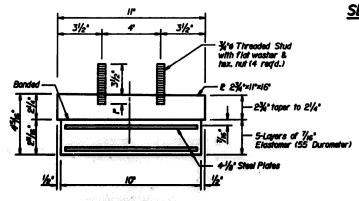




FIXED BEARING AT NEW BEAMS ()THRU (5), SPAN 6, PIER 6 AT NEW BEAMS (B) THRU (2), SPAN II, PIER 10 Weight of Fixed Bearings & Steel Pedestals Included with Structural Steel

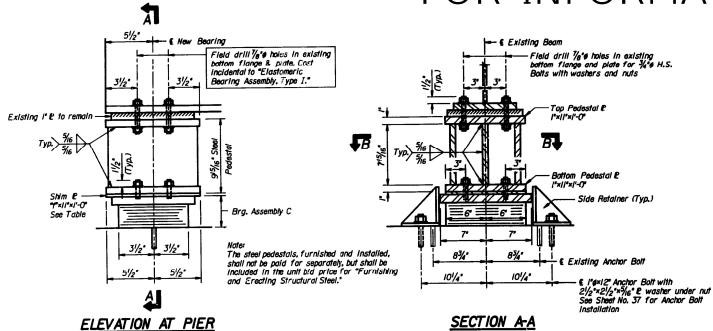


SECTION D-D

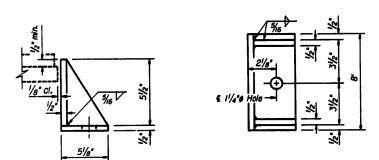


SHEET

BEAR	BEARING DETAILS				SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
LOCATION 2: SN 016-1011				VAR.	2021-160-PB		VAR.	45	18
LUCATION	LUCATION 2: 5N 010-1011						CONTRACT	NO. 62	2P82
OF	SHEETS	STA.	TO STA.		TLINOIS	EED ΔI	D PROJECT		

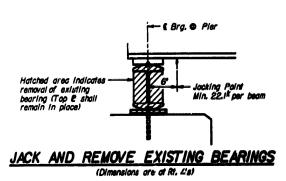


TYPE I ELASTOMERIC EXP. BEARING
AT EXISTING BEAMS (THRU (2), SPAN 6, PIER 5
AT EXISTING BEAMS (THRU (7), SPAN II, PIER II



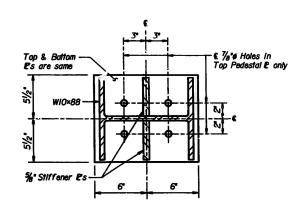
#### SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in Ileu of welded plates. Weight included with Structural Steel

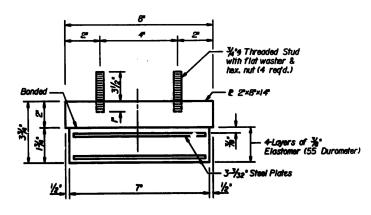


#### REQUIRED SHIM PLATE TABLE

Beam No.	Plate Thick	
Bealli No.	Pier 5, Span 6	Pier II, Span II
0	0	7/16*
@	0	7/16"
3	0	7/16*
<b>④</b>	0	7/16*
<b>⑤</b>	0	7/16"
6	0	7/16*
0	7/16"	0
8	7/16'	0
9	7/16"	0
0	7/16"	0
0	7/16'	0
Ø	7/16'	0

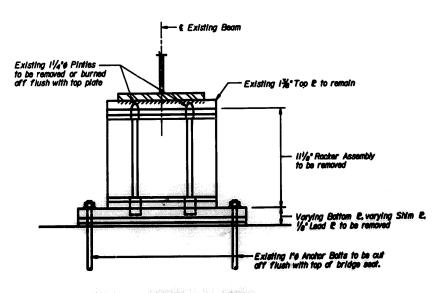


SECTION B-B



BEARING ASSEMBLY C

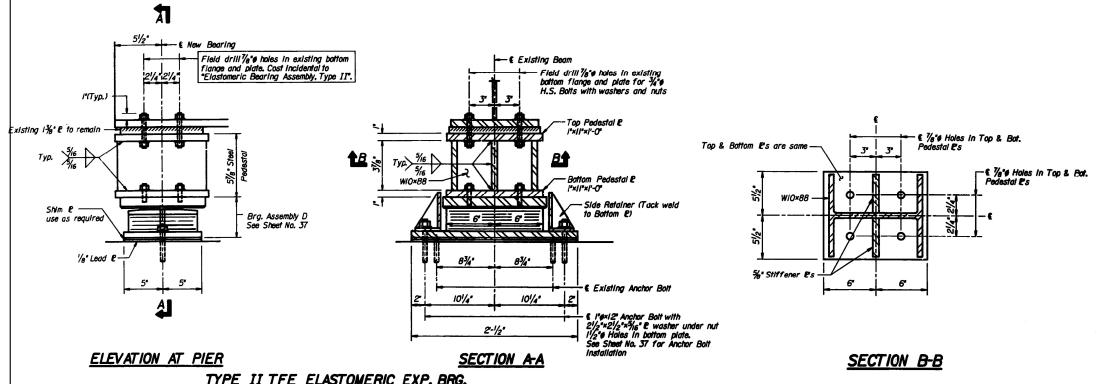
Note: Shim plates shall not be placed under Bearing Assembly.

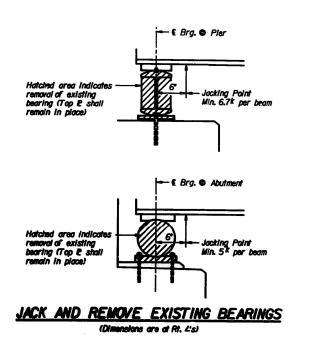


#### EXISTING ROCKER BEARING

USER NAME = diazia	DESIGNED -	REVISED -				RFΔRII	NG DET	ΔII S II		VAR. RTF	SECTION	COUNTY	TOTAL	SHEET
	DRAWN -	REVISED -	STATE OF ILLINOIS					016–1011		VAR	2021-160-PB	VAR.	45	19
PLOT SCALE = 100.0000 / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		L	.UCATIO	1 Z: 3N	010-1011				CONTRAC	T NO. 62	.P82
PLOT DATE = 2/3/2022	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	S STA.	TO STA.		ILLINOIS FED. A	ID PROJECT		

FILE NAME: pw:\\ildot pv



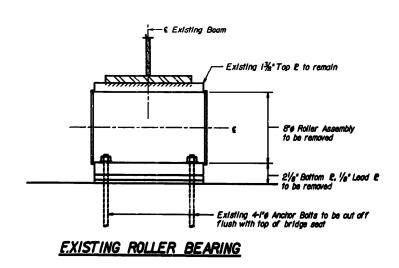


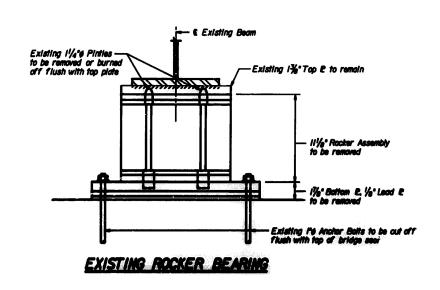
#### TYPE II TFE ELASTOMERIC EXP. BRG.

AT EXISTING BEAMS ()THRU (2), SPAN 5, PIER 5

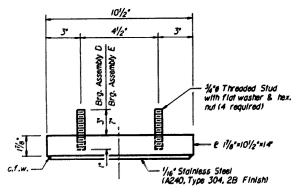
AT EXISTING BEAMS THRU 2 , SPAN 7, PIER 6

AT EXISTING BEAMS ()THRU (2). SPAN 10. PIER 10
AT EXISTING BEAMS ()THRU (2). SPAN 12. PIER 11

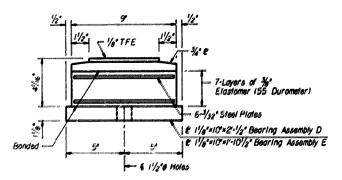




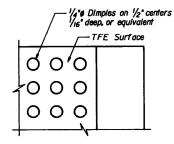
	USER NAME = diazia	DESIGNED -	REVISED -				RFARII	NG DETA	II S III		VAR. BTE	SECTION	COUNTY	TOTAL	SHEET
L		DRAWN -	REVISED -	STATE OF ILLINOIS							VAR	2021-160-PB	VAR.	45	20
L	PLOT SCALE = 100.0000 / in	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION			LUCATIO	N 5: 21	016–1011				CONTRAC	T NO. 6	2P82
	PLOT DATE = 2/3/2022	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FED. A	ID PROJECT		-



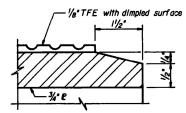
#### TOP BEARING ASSEMBLY D & E



#### BOTTOM BEARING ASSEMBLY D & E

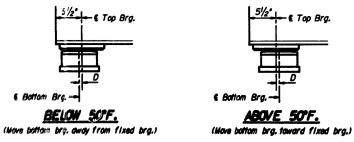


#### PLAN-TFE SURFACE

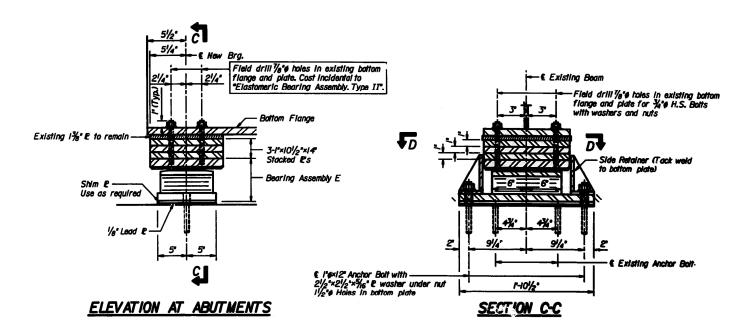


#### SECTION THRU TFE

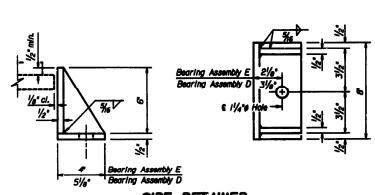
Note: The I/a TFE sheet shall be bonded directly to the top steel plate with a two-component medium viscosity epoxy resin, conforming to the requirements of the Federal specification MMM-A-I34. Type I. The bond agent shall be applied to the full area of the contact surfaces. Bonding of I/a TFE sheet during vuicanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.



# SETTING ANCHOR BOLTS AT EXP. BRG. D-1/s\* per each 100 of expansion for every 15\* temp. change from the normal temp. of 50°F.



TYPE II TFE ELASTOMERIC EXP. BRG.
AT EXISTING BEAMS () THRU (2), SPAN 1, SOUTH ABUTMENT
AT EXISTING BEAMS () THRU (2), SPAN 16, NORTH ABUTMENT

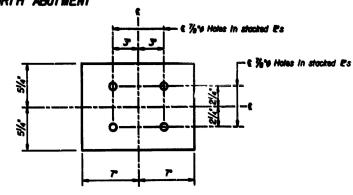


SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in illeu of welded pides.

Weight included with Structural Steel.

SHEET

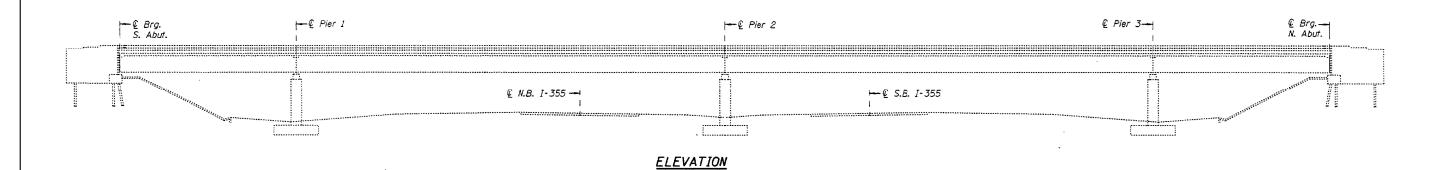


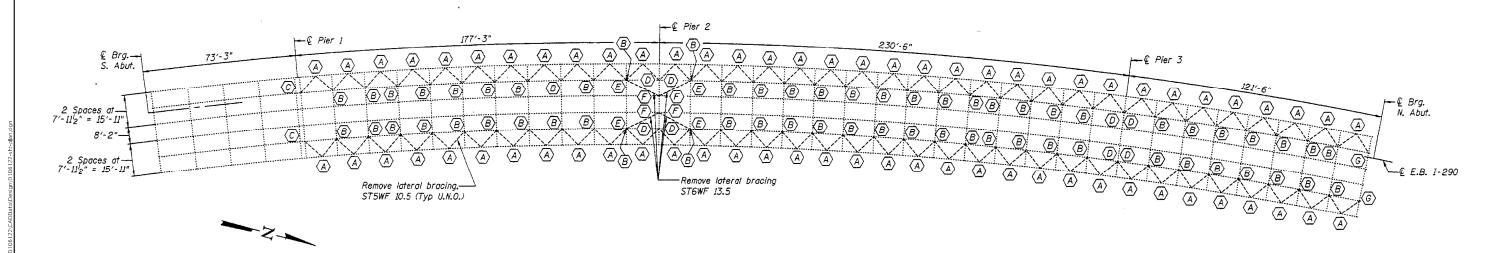
SECTION D-D

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	DRAWN -	REVISED -
PLOT SCALE = 100.0000 / in.	CHECKED -	REVISED -
PLOT DATE = 2/3/2022	DATE -	REVISED -

STATE OF	ILLINOIS
DEPARTMENT OF	TRANSPORTATION

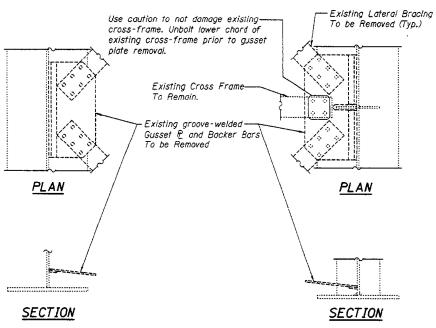
BEAR	BEARING DETAILS IV			VAR. RTE.	SECT	ПОИ		COUNTY	TOTAL SHEETS	SHEET NO.	
LOCATION 2: SN 016-1011			VAR.	2021-1	60-PB		VAR.	45	21		
LUCATIO	14 2. 314	010-1011							CONTRAC	T NO. 62	2P82
OF	SHEETS	STA.	TO	STA.			ILLINOIS	FED. AI	D PROJECT		





FRAMING PLAN

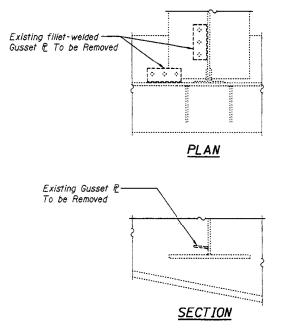
USER NAME = diazia	DESIGNED -	REVISED -			GEN	FRAI PI	ΔΝ ΔΝΓ	ELEVATION		VAR.	SECTION	COUNTY	TOTAL SH	ET
	DRAWN -	REVISED -	STATE OF ILLINOIS	LOCATION 3: SN 022-0092				VAR.	2021-160-PB	VAR.	45 2	2		
PLOT SCALE = 100.0000 / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		L	.ULA I JUN	3: 2N	022-0092				CONTRAC	T NO. 62P8	2
PLOT DATE = 2/3/2022	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FEE	AID PROJECT		-



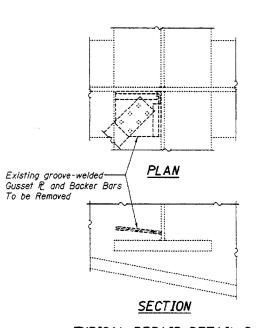
TYPICAL REPAIR DETAIL A
(68 Locations)

TYPICAL REPAIR DETAIL B

(62 Locations)



TYPICAL REPAIR DETAIL C
(2 Locations)



TYPICAL REPAIR DETAIL D
(8 Locations)

Use caution to not damage existingcross-frame. Unbolt lower chord of existing cross-frame prior to gusset plate removal. Existing Cross Frame-To Remain. -Use caution to not damage existing cross-frame. Unbolt lower chord of existing cross-frame prior to gusset Existing groove-welded Gusset P and Backer Bars-To be Removed plate removal. PLAN -Existing Cross Frame To Remain. PLAN -Existing groove-welded ---Gusset & and Backer Bars PLAN CHEST STREET SECTION TYPICAL REPAIR DETAIL G (2 Locations) **SECTION** SECTION

TYPICAL REPAIR DETAIL E

(4 Locations)

TYPICAL REPAIR DETAIL F

(4 Locations)

USER NAME = diazia	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000 / in.	CHECKED -	REVISED -
PLOT DATE = 2/3/2022	DATE -	REVISED -

STATE OF	ILLINOIS
DEPARTMENT OF 1	TRANSPORTATION

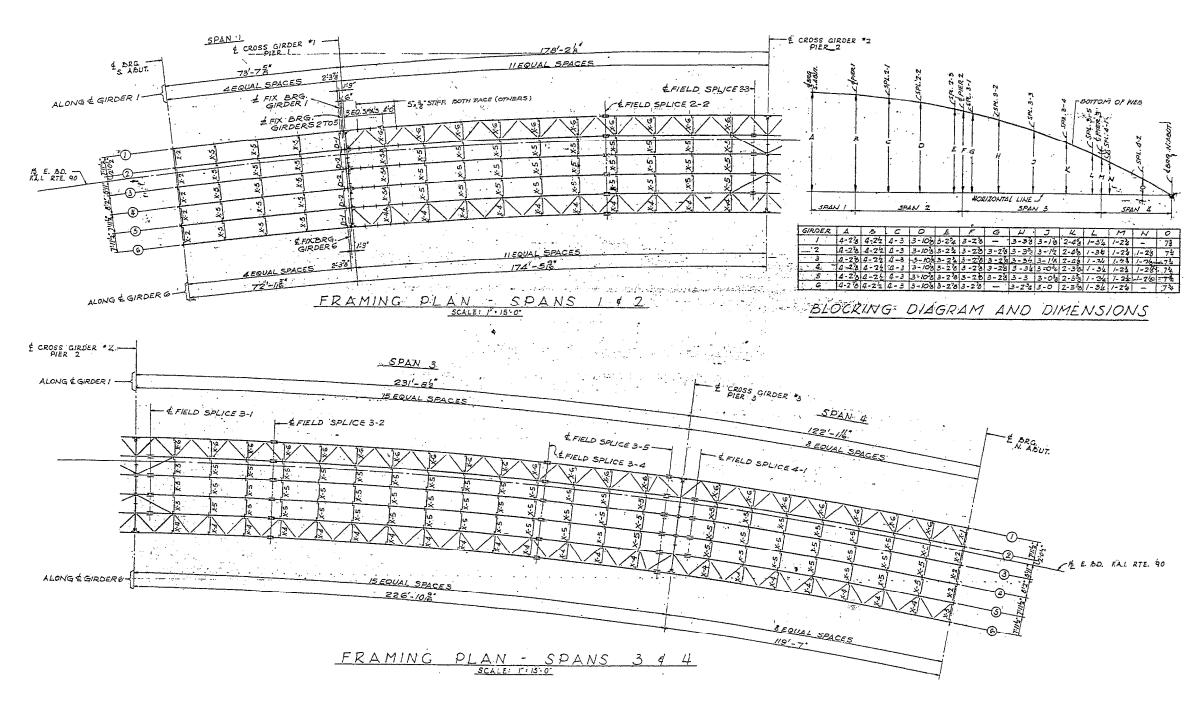
PRE	VIOUS STE	EL REP	AIR DETA	ILS		VA RT		SECTION
	LOCATION	3: SN (	022-0092			VA	AR.	2021-160-F
HEET	OF	SHEETS	CT.		STA			

AR. 2021-160-PB VAR. 45 23

CONTRACT NO. 62P82

| ILLINOIS | FED. AID PROJECT

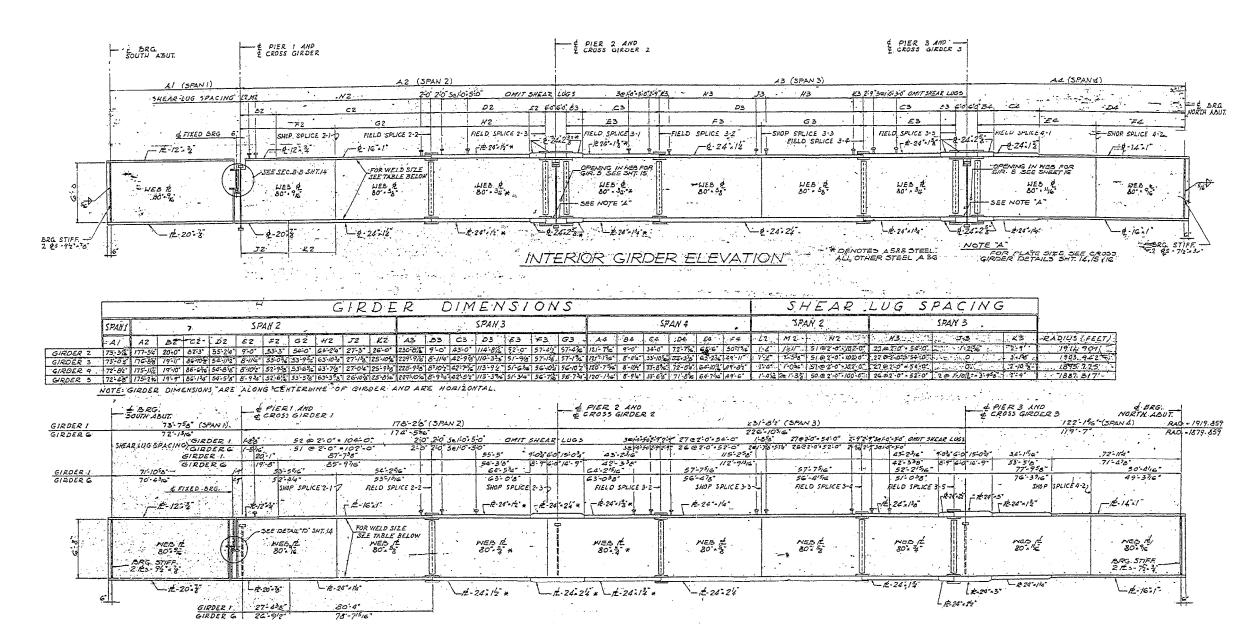
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	DRAWN -	REVISED -	ii.
PLOT SCALE = 100.0000 / in.	CHECKED -	REVISED -	ii.
PLOT DATE = 2/3/2022	DATE -	REVISED -	ı

STATI	E 01	F ILLINOIS
DEPARTMENT	0F	TRANSPORTATION

	STEEL FR LOCATION				VAR. RTE. VAR.	SECTION 2021-160-PB	COUNTY  VAR.  CONTRACT	TOTAL SHEETS 45	24
SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FED. A	ID PROJECT	110. 02	102



FILLET WELD TABLE

_		
-	FLANGE R. THICKNESS	WELO SIZE
	UP TO 34.	14"
	OVER 34" TO 1/2"	516
	OVER12"TO24"	- 38"
	OYER 24 TO 3.	/2" .

FASCIA GIRDER ELEVATION

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

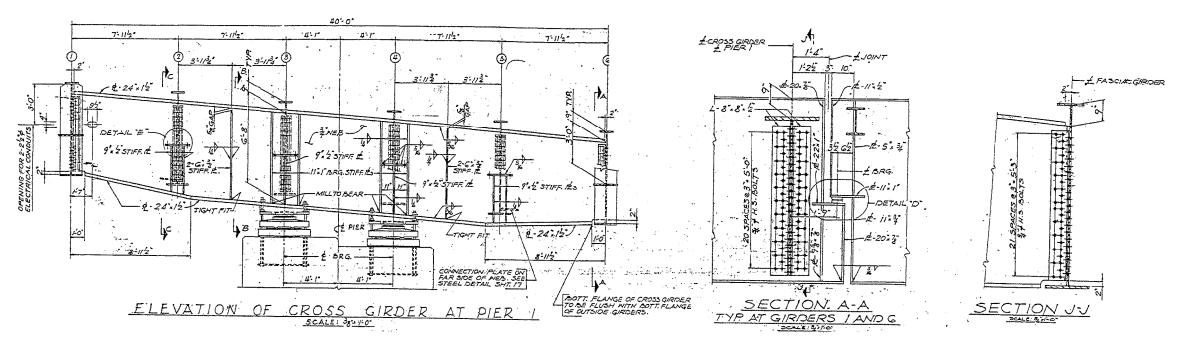
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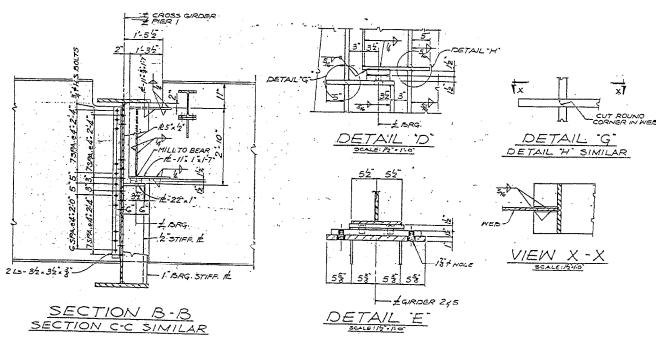
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 CHECKED
 REVISED

 PLOT DATE
 = 2/3/2022
 DATE
 REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MODEL: Default



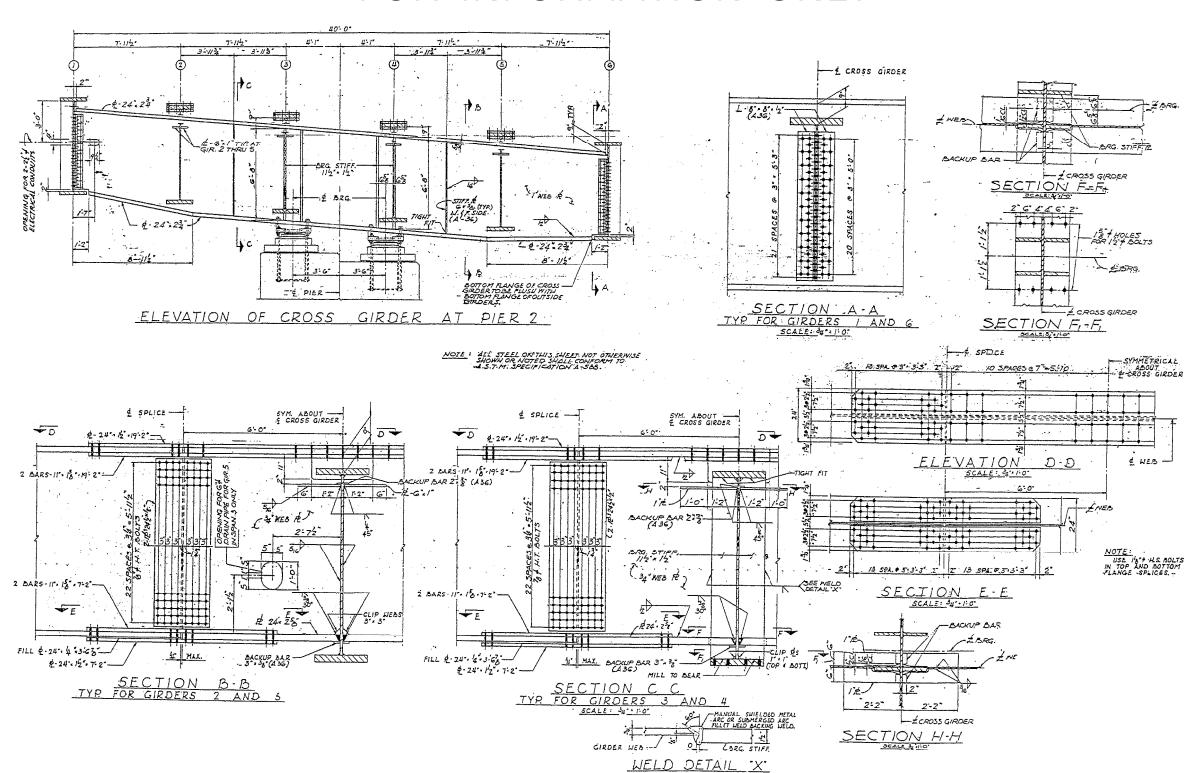


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	DRAWN -	REVISED -	İ
PLOT SCALE = 100.0000 / in	CHECKED -	REVISED -	ĺ
PLOT DATE = 2/3/2022	DATE -	REVISED -	

SCALE:

	STEEL	DETAIL	.s II		VAR. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
LOCATION 3: SN 022-0092						2021-160-PB	VAR.	45	26
	LUCATION	J. 314	022-0032				CONTRACT	NO. 62	2P82
SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FED. A	ID PROJECT		

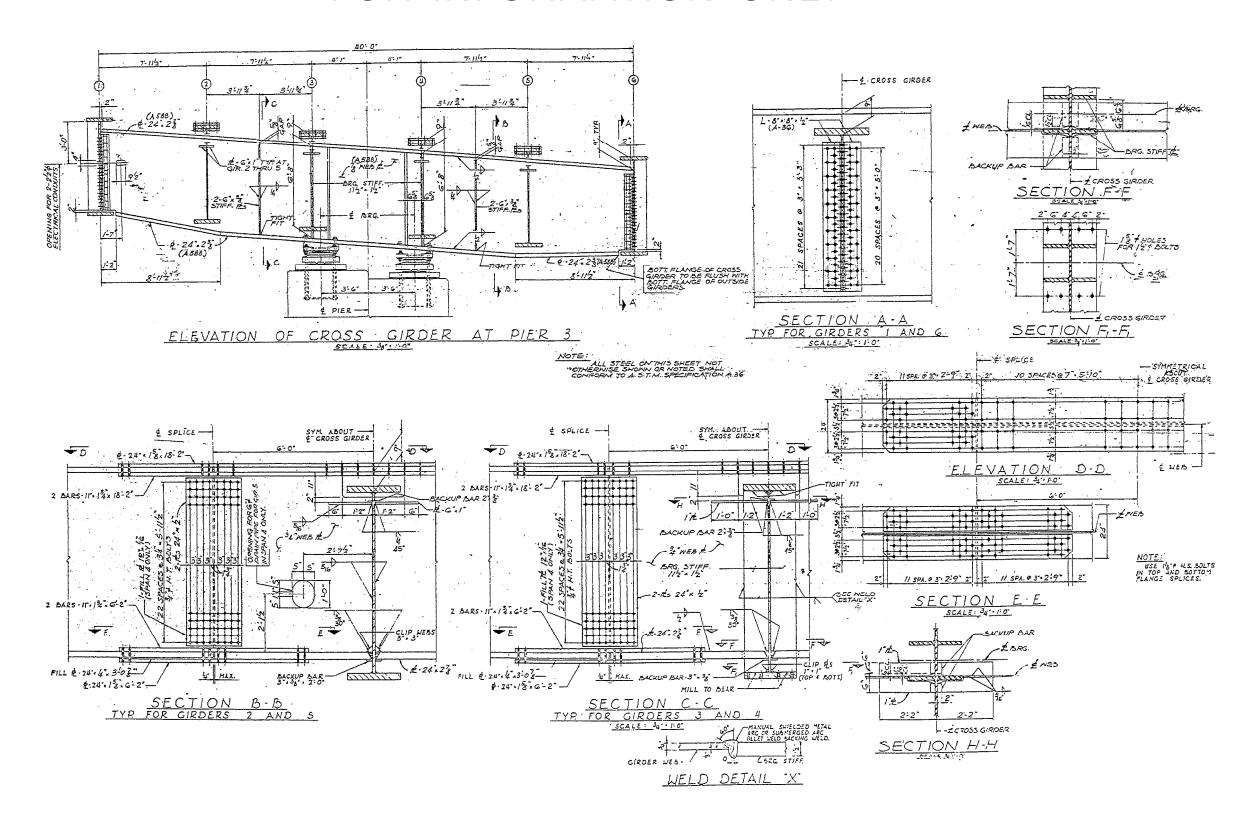
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USER NAME = diazia	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 2/3/2022	DATE -	REVISED -	

STATI	E 01	F ILLINOIS
DEPARTMENT	OF	TRANSPORTATION

	STEEL DE	VAR. RTE.				COUNTY	TOTAL SHEETS	SHEET NO.			
LOCATION 3: SN 022-0092					VAR.	2021-160-PB			VAR.	45	27
LUCATION 3: 3N UZZ-009Z									CONTRACT	NO. 62	2P82
SHEET	OF SH	HEETS	STA.	TO STA.		ILLINOIS FED.			D PROJECT		

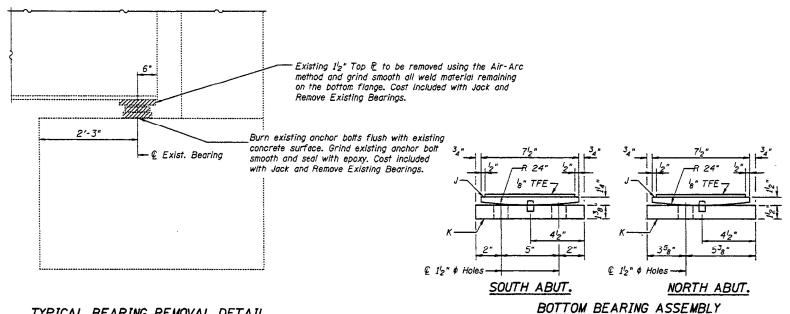


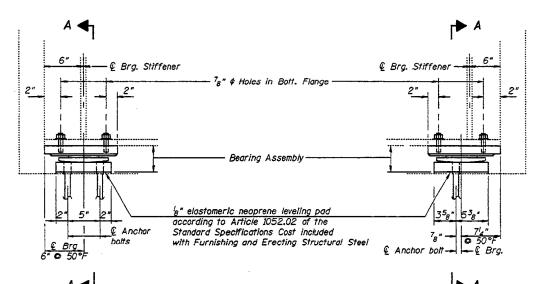
USER NA	USER NAME = diazia	DESIGNED -	REVISED -	STATE OF ILLINOIS	STEEL DETAILS IV						RTE.	L
	PLOT SCALE = 100.0000 / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		LC	DCATION	3: SN	022-0092		VAR.	L
	PLOT DATE = 2/3/2022	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.		_

SECTION 2021-160-PB

VAR. 45 28
CONTRACT NO. 62P82

MODEL: Default



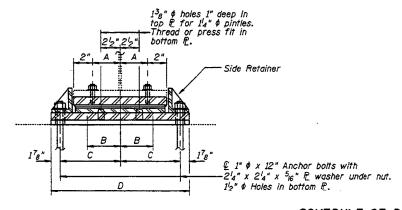


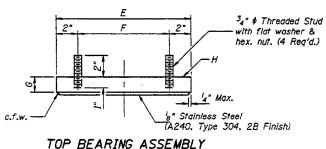
ELEVATION AT S. ABUT.

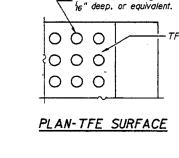
ELEVATION AT N. ABUT.

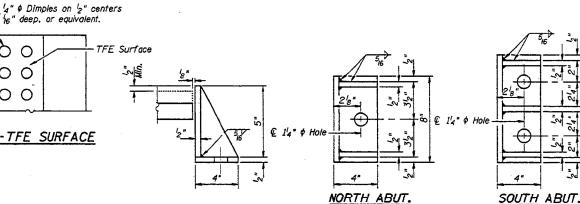
#### TYPICAL BEARING REMOVAL DETAIL

Hatched area indicates area of Bearing Removal.









EXPANSION BEARING

#### SECTION A-A

#### SCHEDULE OF DIMENSIONS

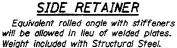
Mark	South Abutment (6 Reg'd)	North Abutment (6 Req'd)
Α	8"	6"
В	10"	8"
C	1'-0'4"	10'4"
D	2'-4'4"	2'-0'4"
E	1'-0"	1'-2'2"
F	8"	10'2"
G	2'8"	134"
Н	P 1'-8" -x 1'-0" x 2'8"	P 1'-4" x 1'-2'2" x 134"
J	P 1'-8" x 7'2" x 1'4"	P 1'-4" x 7'2" x 1'2"
Κ	P 2'-4'4" x 9" x 138"	P. 2'-0'4" x 9" x 1'2"

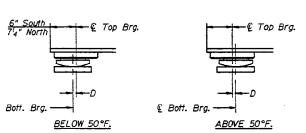
Notes: The 'g" TFE sheet shall be bonded directly to the rocker plate with a two-component, medium viscosity epoxy resin, conforming to the requirements of the Federal Specification MMM-A-134, Type I. The bond agent shall be applied on the full area of the contact surfaces. Cost of TFE included in Furnishing and Erecting Structural Steel.

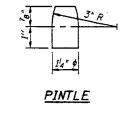
Bonding of 'g" TFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.

New bearings and all hardware shall be paid for as Furnishing and Erecting Structural Steel.

If the analysis submitted by the contractor for the jacking/temporary support system to be used shows temporary stiffeners are required to prevent web crippling or buckling, the stiffeners shall be steel and bolted to the web. If stiffeners are not required, hardwood timbers shall be installed tightly between the top and bottom flange to prevent flange rotation.







(Move bott. brg. away from fixed brg.) (Move bott. brg. toward fixed brg.)

#### SETTING ANCHOR BOLTS AT EXP. BRG.

 $D=I_B$ " per each 100' of expansion for every 15° temp.

SHEET

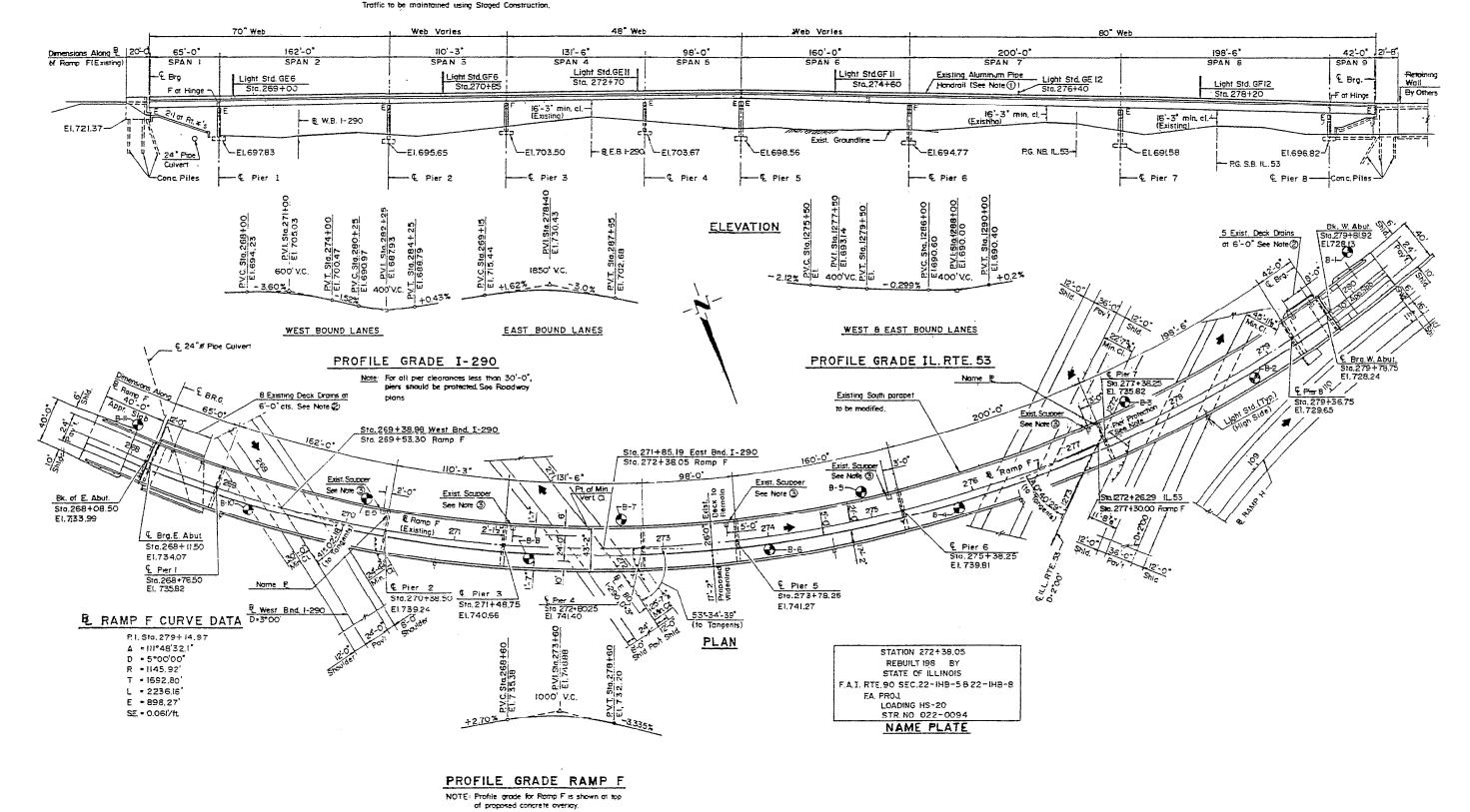
USER NAME = diazia	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 2/3/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BEAR	BEARING DETAILS				VAR. RTE.	SECTION			COUNTY	TOTAL SHEETS	SHEET NO.
LOCATION 3: SN 022-0092			VAR.	2021-160-PB			VAR.	45	29		
LUCATION 3. 3N 022-0032									CONTRAC	T NO. 62	2P82
OF	SHEETS	STA.	TO ST	ГΑ.			ILLINOIS	FED. A	ID PROJECT		

### FOR INFORMATION ONLY B.M.: N.E. Bolt of Light Standard HM-2 95' Rt. Sta. 1268+73 F.A. RTE. 431 Elev. 711, 40.

Existing Structure: Std. 272 + 38.05
Sect. 22-1HB-5 B 22-1HB-8 Built 1970
Structure No. 022-0094. Superstructure
Composite Steel, Substructure Closed Abutments, Solid Piers. Superstructure & Piers to be widened



USER NAME = diazia	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 100.0000 / in.	CHECKED -	REVISED -	
BLOT DATE 2/2/2022	DATE	DE: #GED	1

STATE OF	ILLINOIS
DEPARTMENT OF	TRANSPORTATION

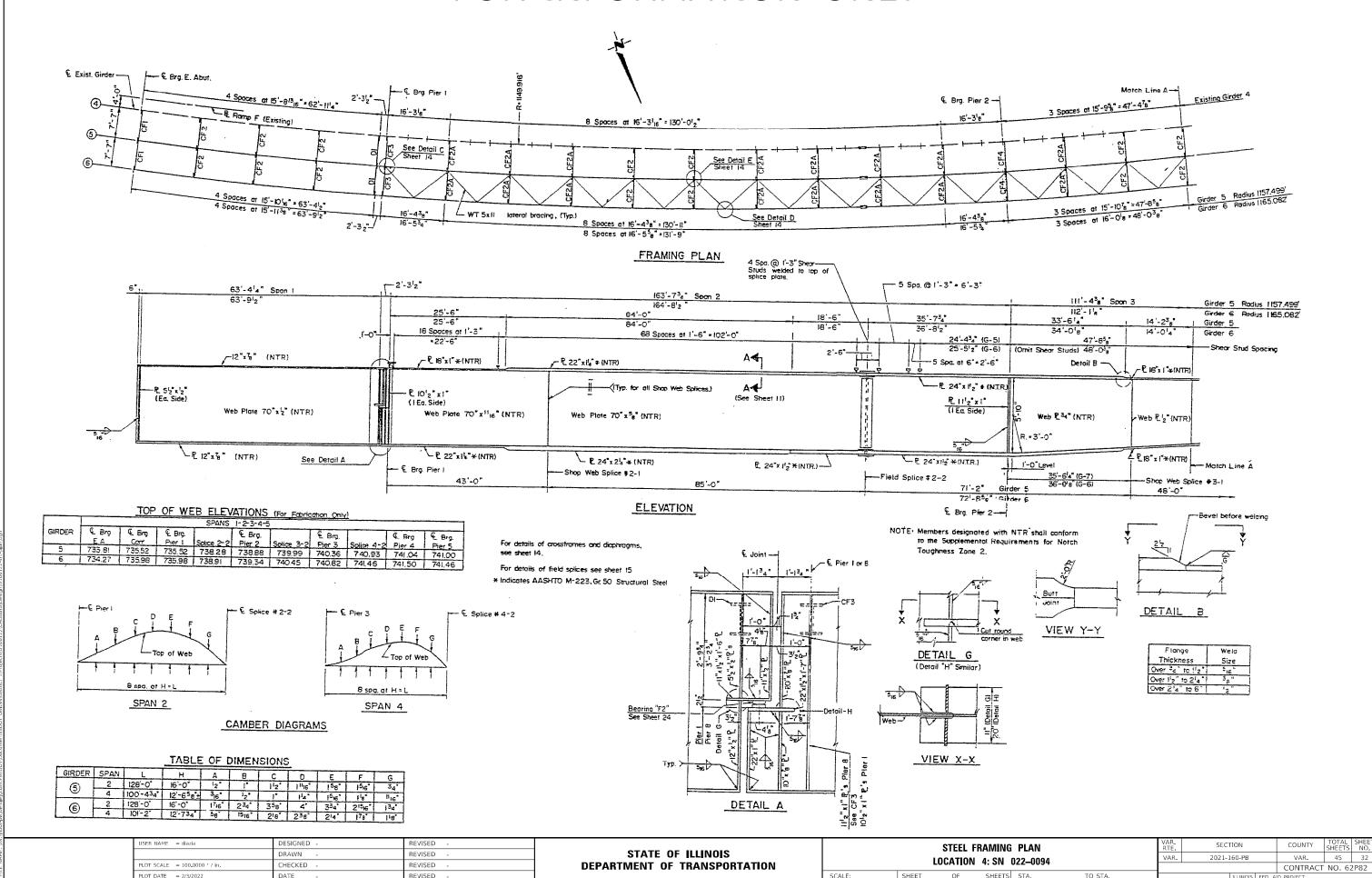
SCALE:

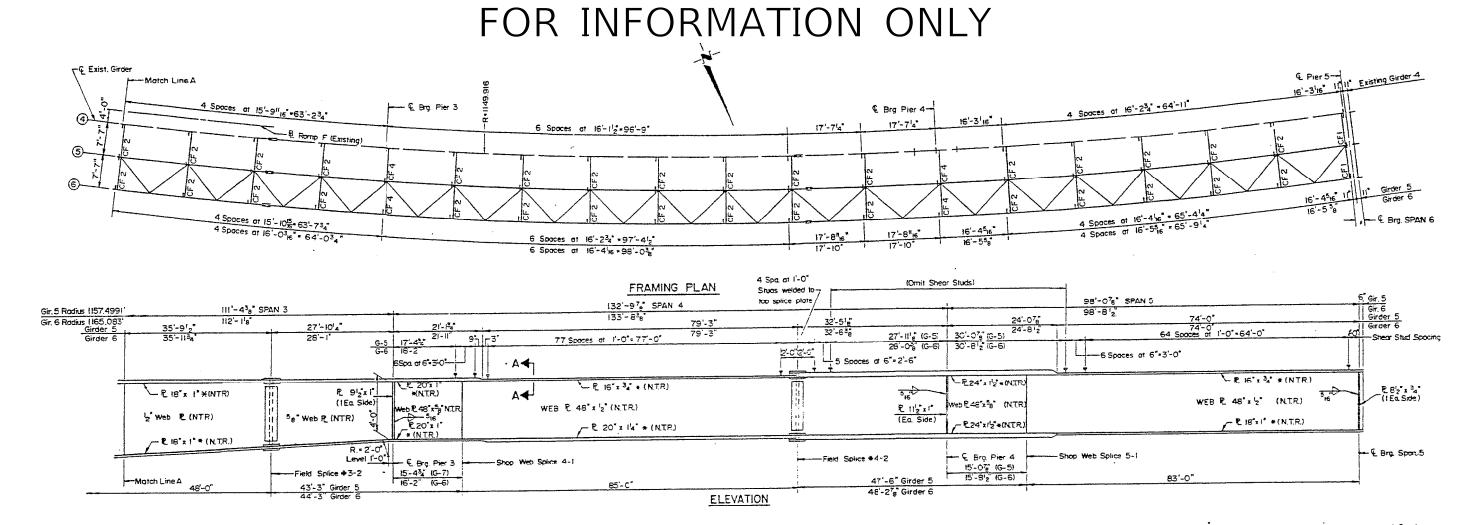
SHEE

GENERAL PLAN AND ELEVATION						VAR. RTE. SECTION			TOTAL SHEETS	SHEET NO.
	LOCATION 4: SN 022-0094				VAR.	2021-160	VAR.	45	30	
	LUCATION 4: SN UZZ-UU94							CONTRACT	NO. 62	2P82
ΕT	OF	SHEETS	STA.	TO STA.		ILLINOIS FED. AID PROJECT				

#### FOR INFORMATION ONLY 40-0' Face to Face of Parapet Too of Existing or New Concrete De 10-0" Shoulder 2 Lores of 12-0-24-0" 6-0° Shoulder 23-7" Stoge I Construction Scarification Line 19-7 Stool II Construction North Gutter Line 8'-5" South Gutter Line 17-2" Deck Widening 26-0 Exist Deck f-5°. 5-0 - B Romp F Concrete Removal 2017年 For Details of Modified Parapet See Sheet No.5 Will be mube 2 ODB 1/SE/ Too of New 2" Conc. FILLET DETAILS (et Spans 1,2,3,4,5,8 9) 15 0 VII bi(E), bs(E), bs(E) or bzi(E) -See Note 1-0" 2-0" 4" North Drip Full Length 7-45 bars @ 10"cts --Long Bonded Constr. Jt. (Typ. between Girders) bi(E),b2(E), b8(E) or b2i(E) BAR dE BAR diE BAR 04E ---<u>|</u>-ez={=== (2) 4-7 3 Scoops of 7-4-22-0 7 027 TYPICAL CROSS SECTION Ellociang Ubstation) Horizontal dimensions are radial BAR X3E BAR de(E) BAR XE, XIE, XZE Remove Existing Rolling Cost Incidental to Corro. Removal ### g Dia Flexible RVC Elect Conduit with End Cop Cost Inducental to Elect Conduit Dia. #### Steel Cover Plate with 2 - L' Dia, Bolts See Detail A Cost Inducental f-d For Details of L. Dia Anchor Top of Existing Deck 2 - 12 Dia Botts with 2" Dia, PVC, Elect. ! Conduit 1" Dia RVC Drio Proc ELEVATION PLAN DETAIL A SECTION THROUGH PARAPET ON @ LIGHT STANDARD SECTION THROUGH EXISTING NORTH PARAPET (To Be Removed) LExising Exposed Rebors to be cleaned. by Sandblasting (cost to be incidental to class X concrete) and incorporated into new construction. Existing Reinforcement Face of Forces 6 6 5 5 22 Da PVC Pice which is not embedded in the remaining concrete shall be removed and aisposed of. 2" Da PVC Poe DETAIL OF EXP COUPLING

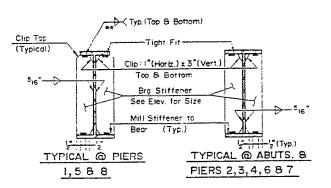
DESIGNED REVISED SECTION **CROSS SECTION** STATE OF ILLINOIS DRAWN REVISED 2021-160-PB VAR. 45 31 LOCATION 4: SN 022-0094 HECKED REVISED **DEPARTMENT OF TRANSPORTATION** CONTRACT NO. 62P82 SHEETS STA. PLOT DATE = 2/3/2022 TO STA. DATE





\* Indicates AASHTO M-223, Gr. 50 Structural Steel

NOTE: Members designated with NTR shall conform to the Supplemental Requirements for Notch Toughness Zone 2.



SECTION AT BEARING STIFFENERS

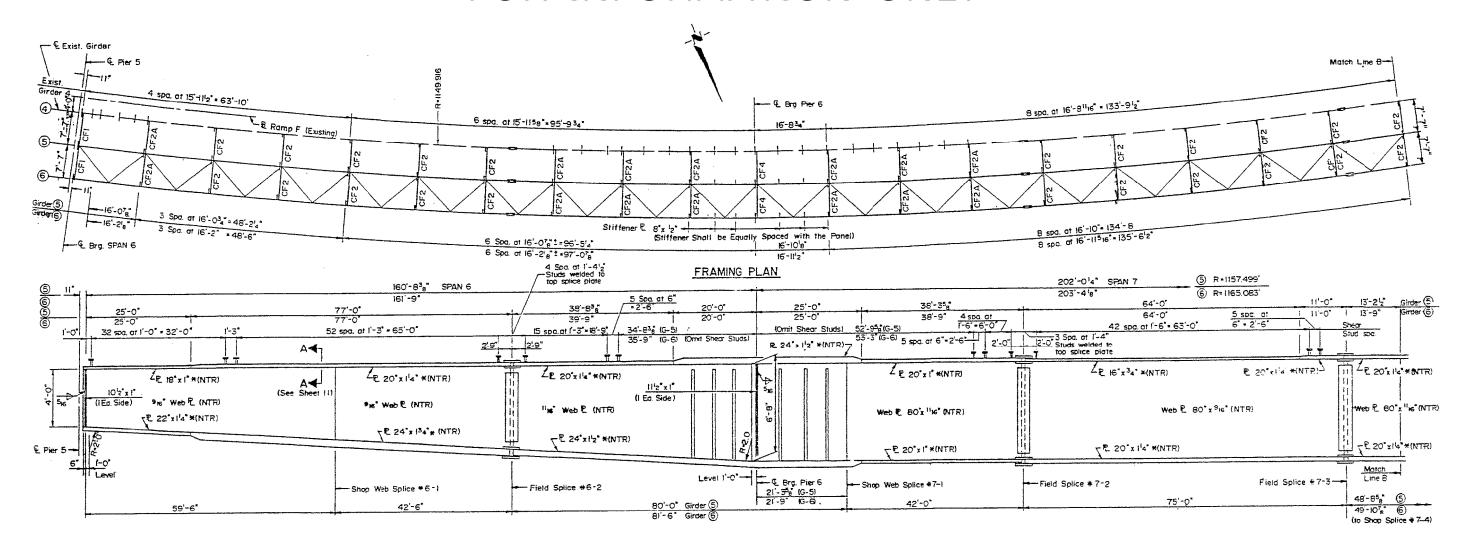
SCALE:

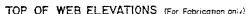
Except at web thickness changes, all shop web splices are optional.

USER NAME = diazia	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 100.0000 / in.	CHECKED -	REVISED -	
PLOT DATE = 2/3/2022	DATE -	REVISED -	

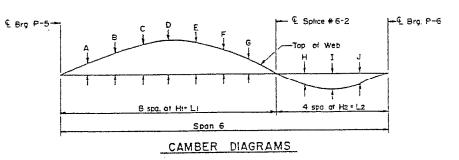
STATE OF ILLINOIS	
<b>DEPARTMENT OF TRANSPORTATION</b>	

	STEEL FRAMING PLAN II						VAR. RTE. SECTION			COUNTY	TOTAL SHEETS	SHEET NO.
	LOCATION 4: SN 022-0094					VAR.	2021-160-PB			VAR.	45	33
										CONTRACT	NO. 62	2P82
	SHEET	OF	SHEETS	STA.	TO STA.	ILLINOIS FED			FED. A	AID PROJECT		





	T			SPANS	5-7-8-9					
GIRDER	€ Brg Pier 5	Solice 6-2	€ Brg Pier 6	Solice 7-2	Solice 7-3	€. Brg. Pier 7	Solice 8-1	E Brg. Pier 8	© Brg. Cont.	€. Srg. W.A.
5	740.96	74024	739 46	738.51	736.99	735 38	733.48	729,31	729.31	727.98
6	741.42	740.92	739.92	738.85	737.30	735.84	733.73	729.77	729.77	728.44



- 1	GIRDER	1.1	Hı	A	В	С	0	Ε	F	G	L2	H2	Н	I	J
	5	102'-0"	12'-9"	9,6	116	1716	158	1 76	116	58.	58'-8 <sup>3</sup> 8	14'-8 <sup>1</sup> 16±	14"	38.	14"
	6	102'-0"	12'-9"	114	214	318	338	345	238	1516	59'-9"	14'-11'4	18,	716"	36.

SHEET

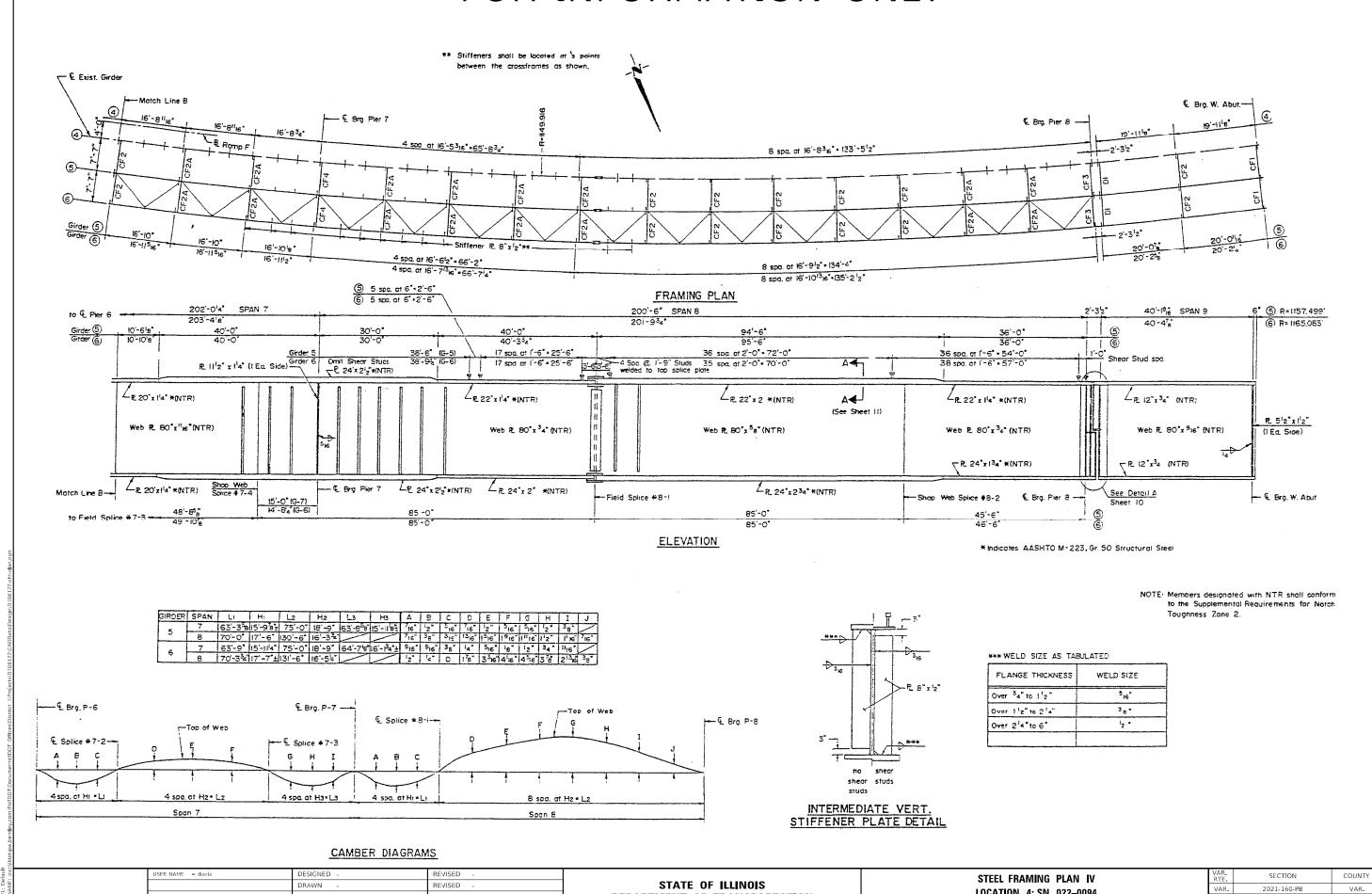
\*Indicates AASHTO M-223. Gr. 50 Structural See!

NOTE: Members designated with NTR shall conform to the Supplemental Requirements for Notch Toughness Zone 2

USER NAME = diazia	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000 / in.	CHECKED -	REVISED -
PLOT DATE = 2/3/2022	DATE -	REVISED -

STATE	: OF	ILLINOIS
DEPARTMENT	OF	TRANSPORTATION

STEEL FR	AMING	PLAN III		VAR. RTE.	SEC*	ПОИ		COUNTY	TOTAL SHEETS	SHEE NO.
LOCATION	A. CM	N22_NNQ/I		VAR.	2021-	160-PB		VAR.	45	34
LUCATION	7. JIV	022-0034						CONTRACT	NO. 62	2P82
OF	SHEETS	STA	TO STA.			TELIMOIS	EED ΔI	D PROJECT		



**DEPARTMENT OF TRANSPORTATION** 

HECKED

DATE

REVISED

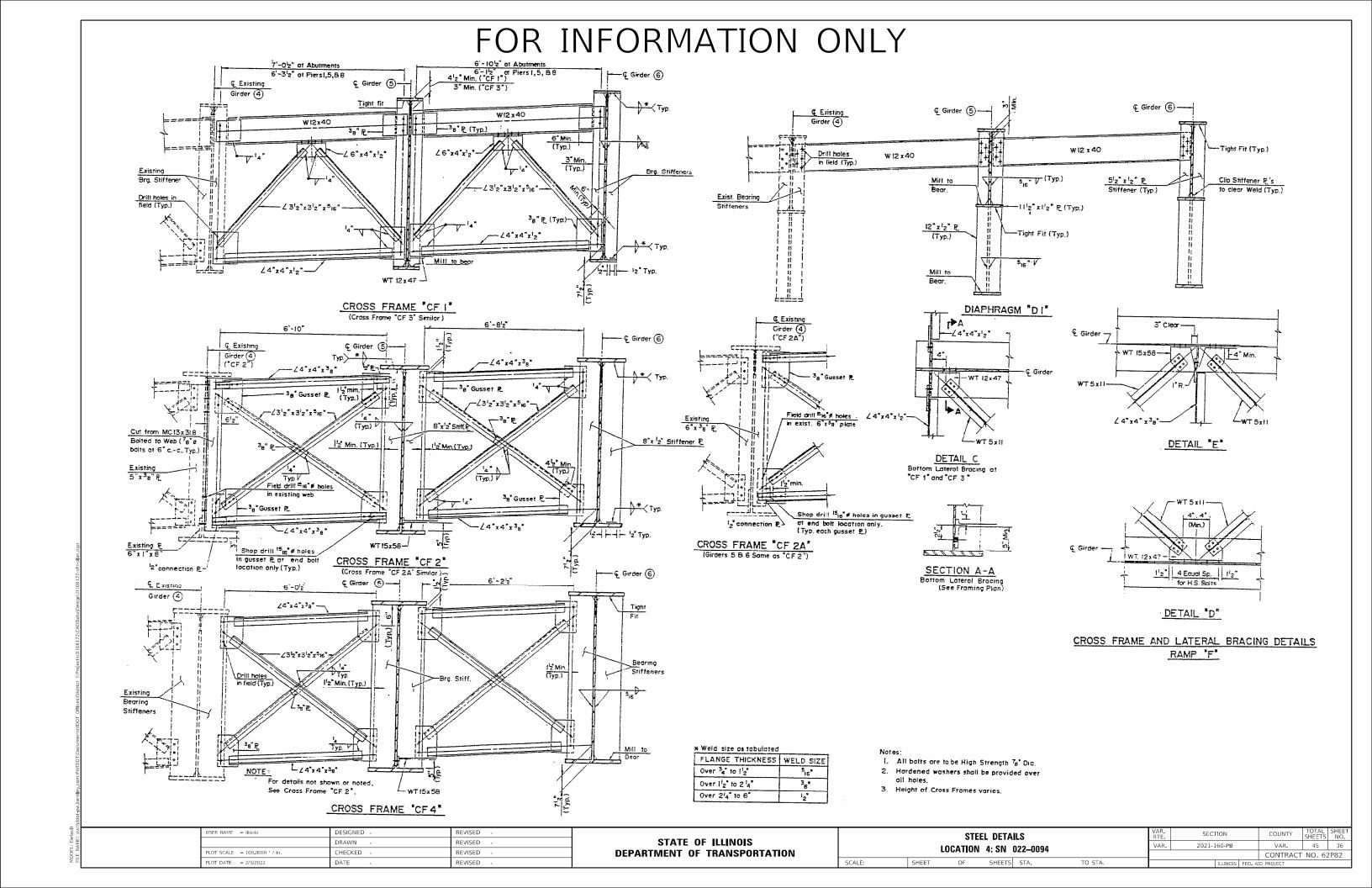
45 35

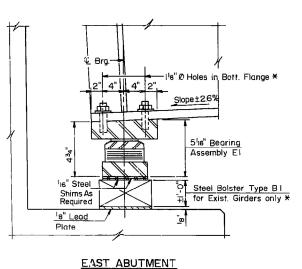
CONTRACT NO. 62P82

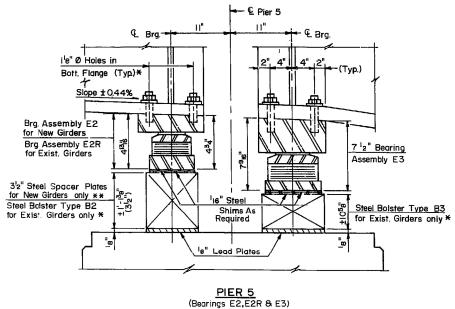
LOCATION 4: SN 022-0094

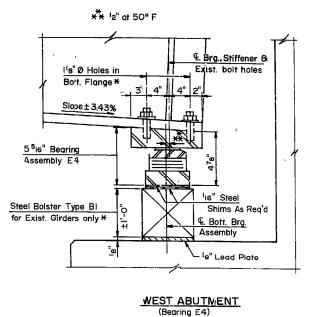
SHEETS STA.

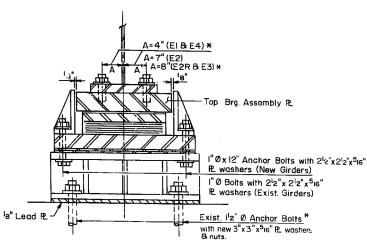
TO STA.







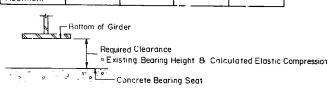


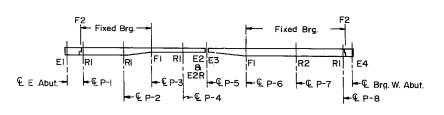


TYPICAL SECTION THROUGH REPLACEMENT BEARING

BEARING REPLACEMENT DATA - GIRDERS (1) - (4)

DEAMINO I	LI LACLIN	LIVI DAIR	4 GIIVDEN	<u> </u>
Location	Bearing Type III	Bolster Type	Calculated Elastic Compression	Anticipated Jacking Load
East Abutment	ΕI	ВІ	132"	70 K ±
Pier 5 (Span 5)	E2R	B2	132"	65 K ±
Pier 5 (Span 6)	E3	В3	¦i6"	170 K±
West Abutment	E4	Bi	132"	45 K±



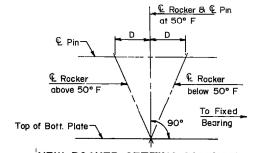


#### BEARING LOCATION DIAGRAM

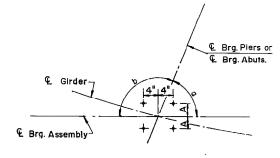
Note:

Bearings shown on this sheet to be furnished by others, and erected under this contract.

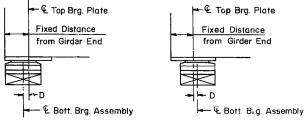
ELASTOMERIC BEARING TYPE III
(at New & Existing Girders)



### NEW ROCKER SETTING DIAGRAM (Piers 1,2,4,7 & 8)



FLANGE BOLT LAYOUT



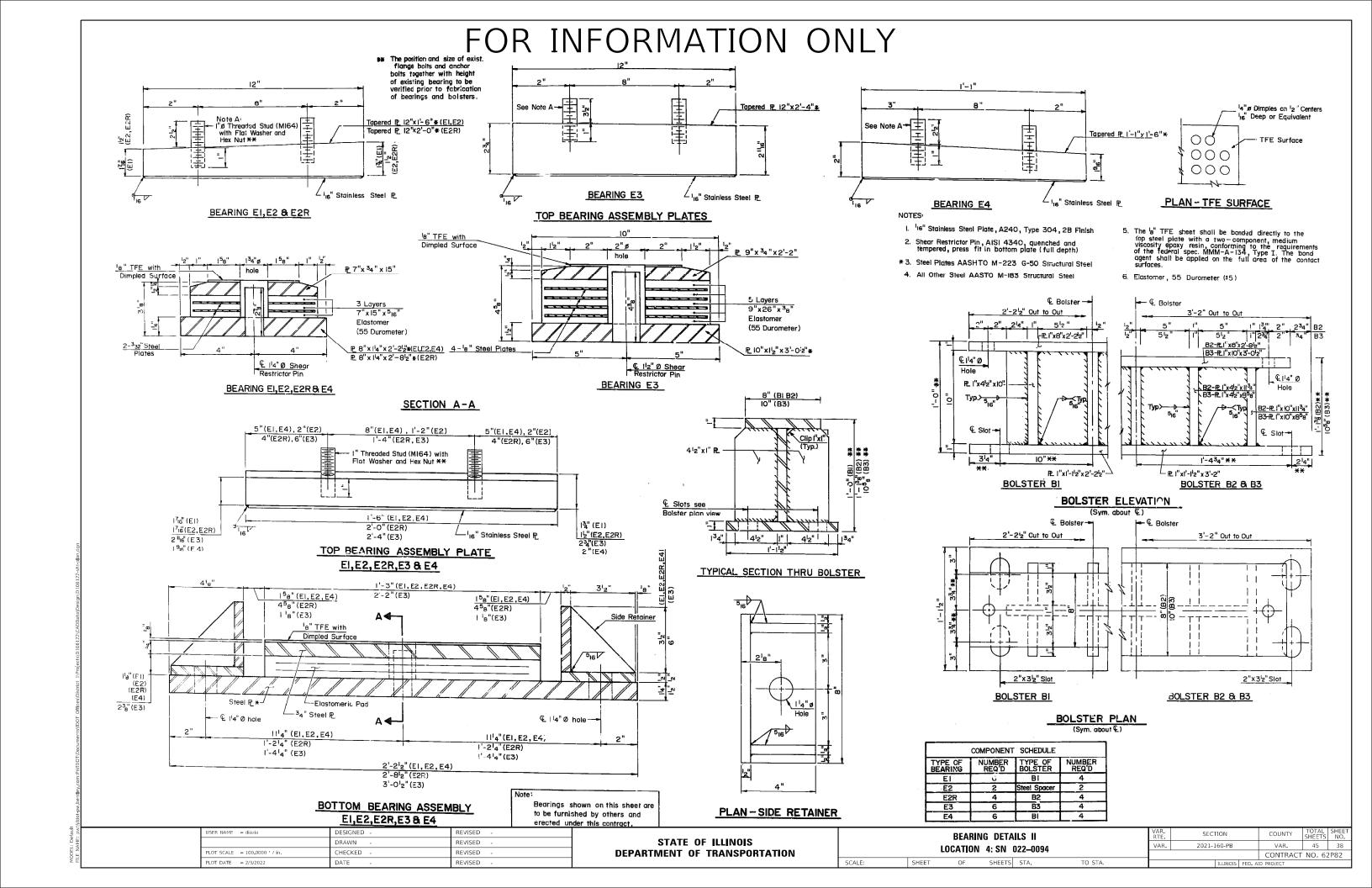
BELOW 50° F
(Move Bott, Brg. Assembly

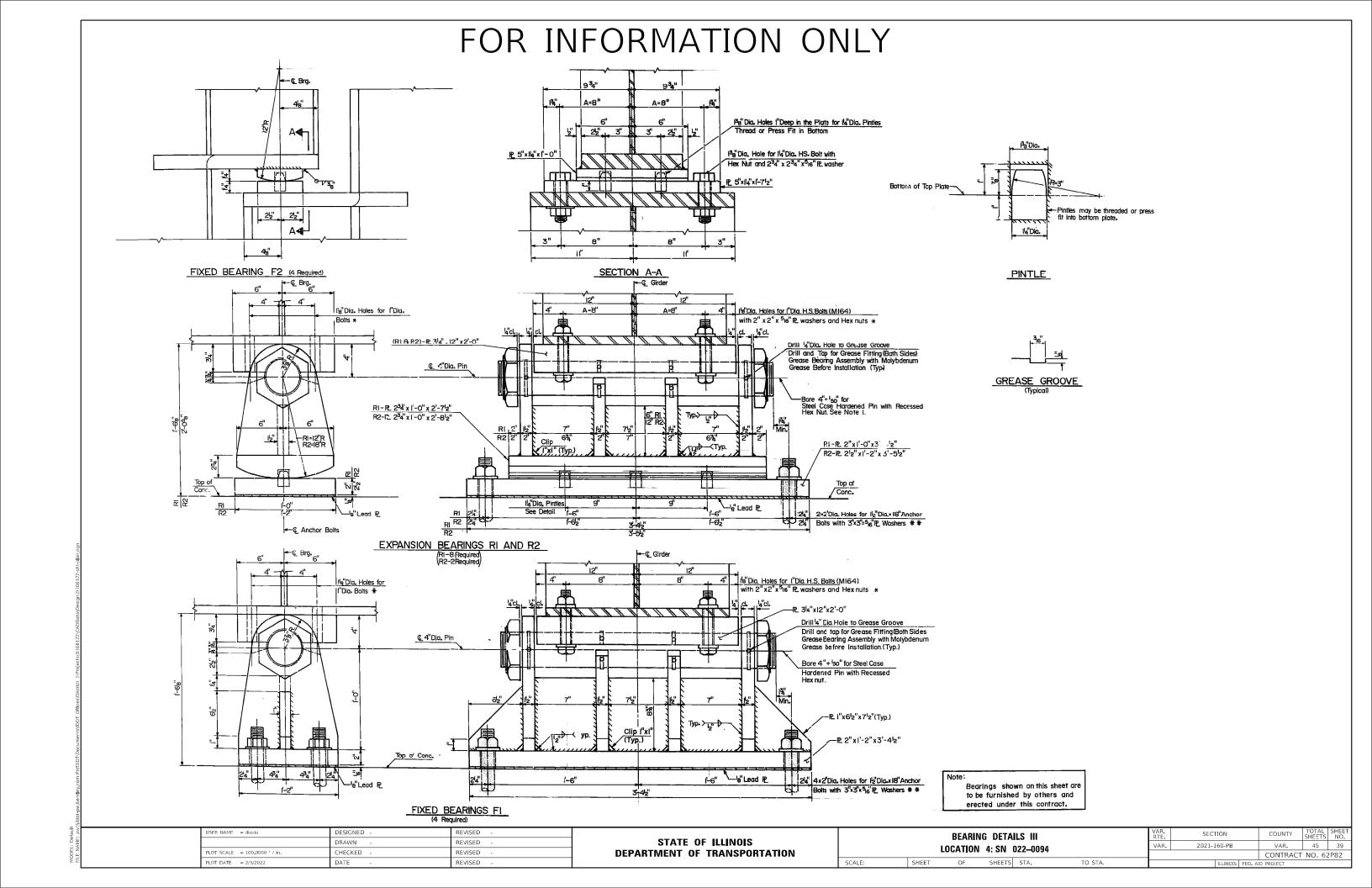
ABOVE 50° F
(Move Bott, Brg. Assembly towards Fixed Brg.)

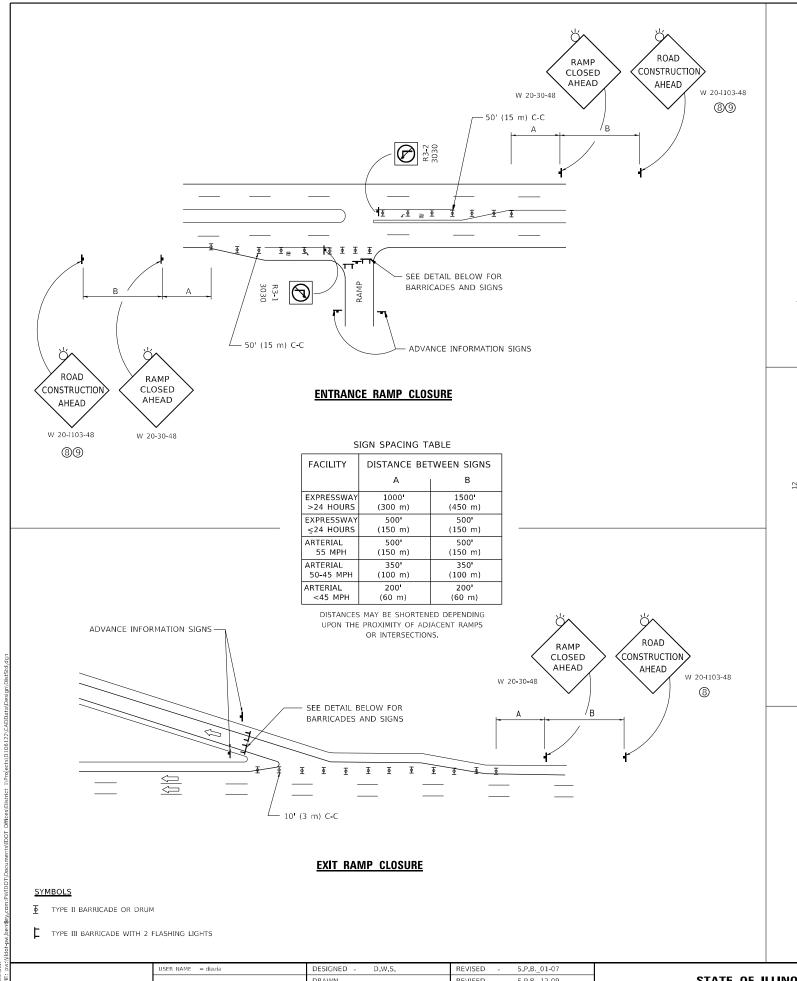
#### **ELASTOMERIC BEARING SETTING DIAGRAMS**

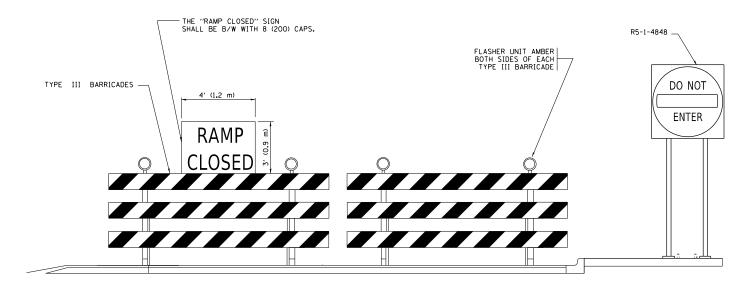
(Pier 5, East & West Abuts.)

USER NAME = diazia	DESIGNED -	REVISED -				RFAR	RING DET	AII S		VAR.	SECTION	COUNTY	TOTAL	SHEET
	DRAWN -	REVISED -	STATE OF ILLINOIS					<del>-</del>		VAR.	2021-160-PB	VAR.	45	37
PLOT SCALE = 100.0000 / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		L	OCATION	4:5N	022-0094				CONTRACT	T NO. 6	2P82
PLOT DATE = 2/3/2022	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FEI	AID PROJECT		









**DETAIL FOR REQUIRED BARRICADES & SIGNS** 

#### RAMP CLOSURE ADVANCE INFORMATION SIGN

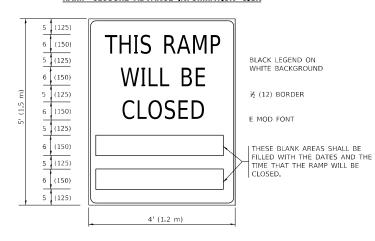
#### RAMP CLOSURE ADVANCE WARNING SIGN

RAMP CLOSED 10' (3 m)

BLACK LEGEND ON ORANGE

BACKGROUND MOUNTED DIAGONALLY E MOD FONT 1 (25) BORDER

THESE SIGNS ARE REQUIRED ON ALL THE EXIT GUIDE SIGNS FOR EXIT RAMPS THAT WILL BE CLOSED FOR MORE THAN FOUR (4) CONSECUTIVE DAYS.



THESE SIGNS ARE REQUIRED ON BOTH SIDES OF THE RAMP, MINIMUM OF 1 WEEK IN ADVANCE OF THE CLOSURE.

THESE SIGNS SHALL BE FABRICATED AND PAID FOR ACCORDING TO THE TEMPORARY INFORMATION SIGNING SPECIAL PROVISION

#### GENERAL NOTES:

- CONES MAY BE SUBSTITUTED FOR DRUMS OR TYPE II BARRICADES DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (700) HIGH.
- (2) VERTICAL BARRICADES SHALL NOT BE USED FOR RAMP CLOSURES.
- 3 A FLAGGER SHALL BE POSITIONED AT EACH CLOSED RAMP THAT IS OPEN TO CONSTRUCTION VEHICLES, PRECEEDED BY A W20-7 FLAGGER WARNING SIGN.
- 4 ALL ROUTE MARKERS AND TRAILBLAZER ASSEMBLIES WHICH DIRECT MOTORISTS TO A CLOSED ENTRANCE RAMP SHALL BE COVERED WHEN THE RAMP IS CLOSED FOR MORE THAN FOUR (4) DAYS.
- THE SIGNING AND BARRICADING WHICH IS REQUIRED BY THIS DETAIL SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS).

SCALE: NONE

- (6) AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL RAMP CLOSURES.
- THE RAMP CLOSURE ADVANCE INFORMATION SIGNS SHALL BE ERECTED IF THE CLOSURE TIME EXCEEDS TWENTY-FOUR (24) HOURS. ADDITIONAL ADVANCE WARNING SIGNS ON EXIT GUIDE SIGNING WILL BE REQUIRED FOR EXIT RAMP CLOSURES THAT EXCEED FOUR (4) DAYS IN LENGTH
- (8) ROAD CONSTRUCTION AHEAD SIGNS MAY BE OMITTED WHEN THIS DETAIL IS USED IN CONJUNCTION WITH OTHER TRAFFIC CONTROL THAT ALREADY INCLUDES A ROAD CONSTRUCTION AHEAD SIGN.
- ARTERIAL ROAD CONSTRUCTION AHEAD SIGNS SHALL BE INSTALLED ON THE LEFT SIDE OF TRAFFIC IF THE MEDIAN IS MORE THAN 10 FT WIDE.

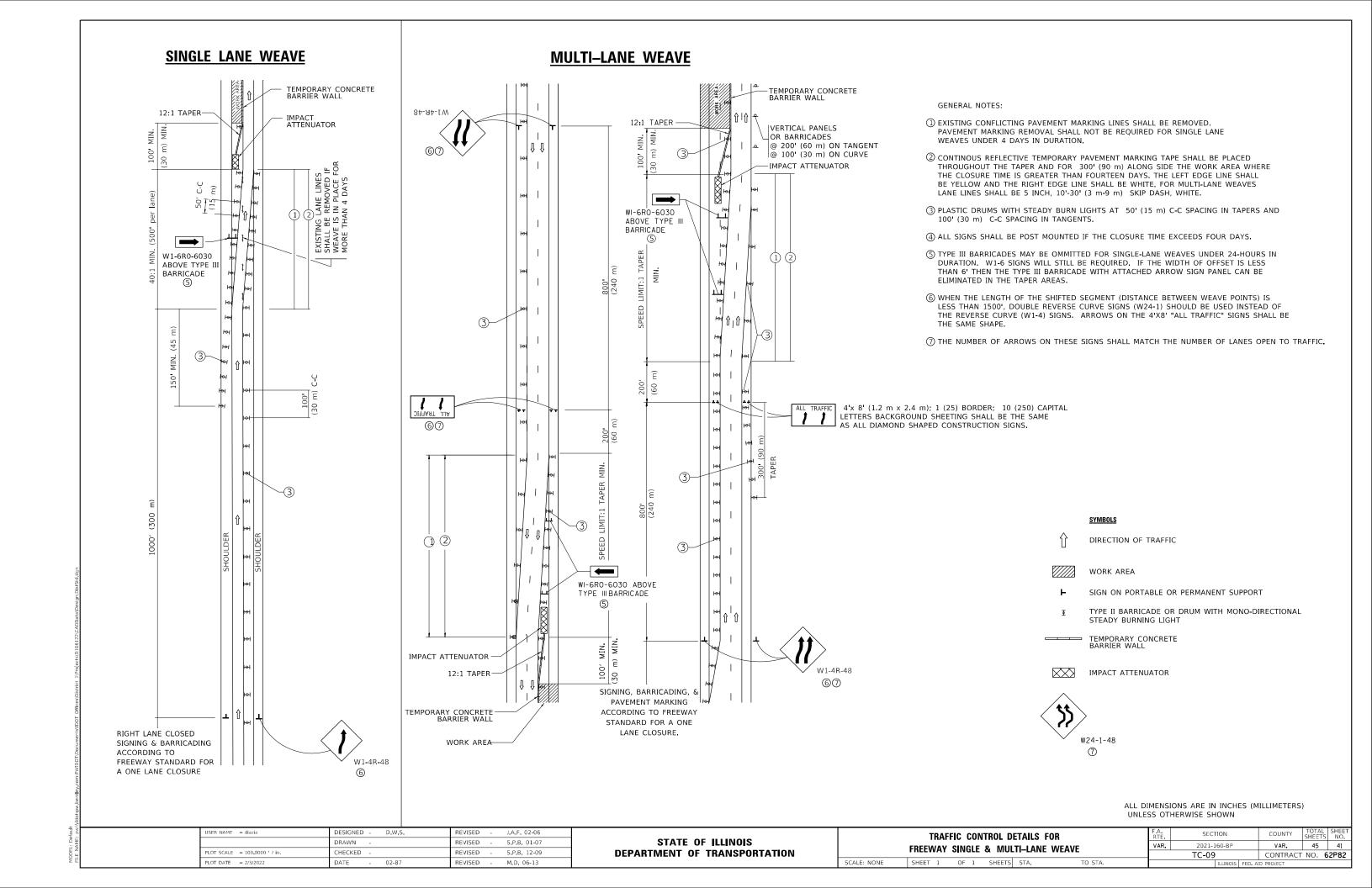
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

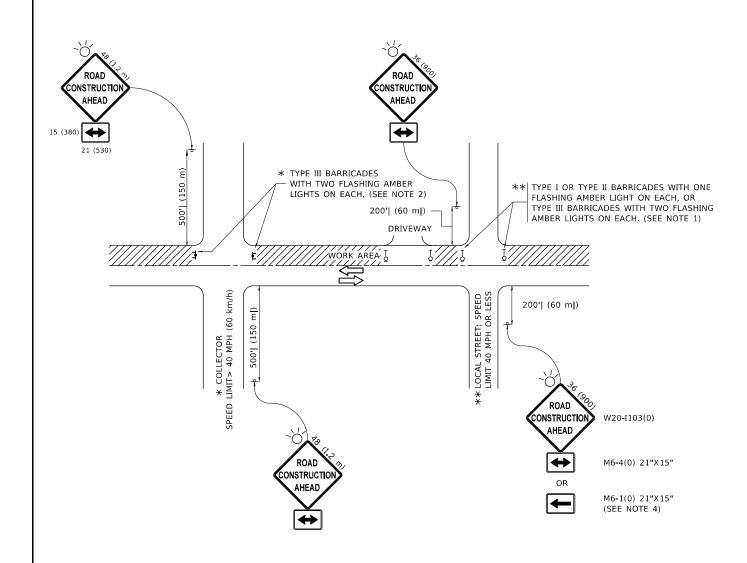
DRAWN REVISED S.P.B. 12-09 HECKED REVISED M.D.\_06-13 PLOT DATE = 2/3/2022 M.D. 01-18 DATE REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

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SHEET	1	OF	1	SHEETS	STA.	TO STA.	

SECTION COUNTY VAR. 2021-160-BP VAR. 45 40 CONTRACT NO. 62P82





#### NOTES:

- 1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
- a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
- b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
- SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
- a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
- THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY
  b) BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION
  OF THE CLOSED PORTION.
- 3. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT
- WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE
  4. SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL
  BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).

- 5. WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
- 6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER
- THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

All dimensions are in inches (millimeters) unless otherwise shown.

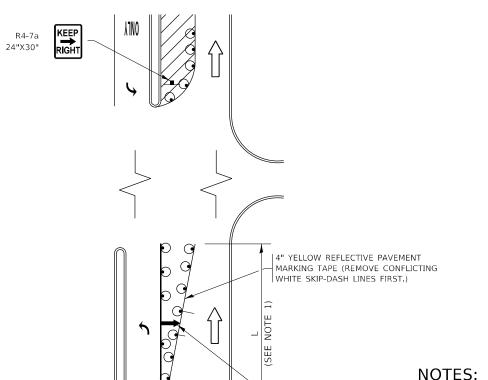
USER NAME = diazia	DESIGNED - L.H.A.	REVISED - A. HOUSEH 10-15-96
	DRAWN -	REVISED - T. RAMMACHER 01-06-00
PLOT SCALE = 100.0000 / in.	CHECKED -	REVISED - A. SCHUETZE 07-01-13
BLOT DATE = 2/2/2022	DATE 06.90	DEVICED A SCHUFTZE 09-15-16

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS										
SCALE: NONE	SHEET 1	OF 1	SHEETS	STA.	TO STA.					

F.A. RTE	SECTION		COUNTY	TOTAL SHEETS	SHE
VAR.	2021-160-BP	VAR.	45	42	
	TC-10		CONTRACT	NO. 6	2P8
	TILINOIS	EED A	ID DROIECT		

### TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER

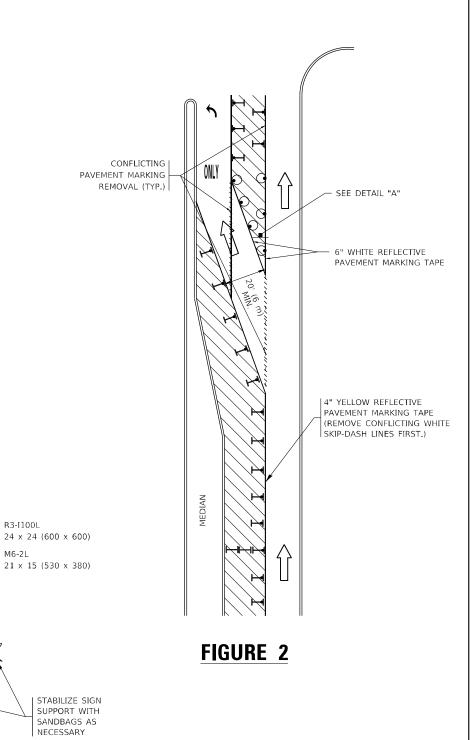


- ARROW BOARD

### **LEGEND** WORK AREA LANE OPEN TO TRAFFIC ARROW BOARD TYPE I OR II BARRICADE OR DRUM WITH STEADY BURN LIGHT DRUM WITH STEADY BURN LIGHT SIGN ASSEMBLY TYPE I OR II CHECK BARRICADE WITH FLASHING LIGHT

- 1. A) WHEN "L" IS ≤ THE STORAGE LENGTH OF THE TURN LANE (AS SHOWN IN FIG. 1), USE FIGURE 1.
  - B) WHEN "L" IS > THE STORAGE LENGTH OF THE TURN LANE OR THE TURN LANE IS WITHIN THE LANE CLOSURE, USE FIGURE 2.
- 2. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
- 3. LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
- 4. REFLECTIVE TEMPORARY PAVEMENT MARKINGS SHALL BE PLACED THROUGHOUT THE BARRICADED AREAS OF EACH TURN BAY AS SHOWN WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN (14) DAYS.
- 5. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-I100R 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.
- 6. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
- 7. THE SIGNS SHALL BE MOUNTED ABOVE THE BARRICADES/DRUMS ON SEPARATE SIGN SUPPORTS THAT MEET NCHRP 350 OR MASH PREOUIREMENTS.
- 8. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

### **TURN BAY ENTRANCE** WITHIN A LANE CLOSURE



#### **DETAIL A**

TURN

M6-2L

All dimensions are in inches (millimeters) unless otherwise shown.

USER NAME = diazia	DESIGNED	- T.	RAMMACHER	09-08-94	REVISED	-	R. BORO 0	9-14-09
	DRAWN	-	A. HOUSEH	11-07-95	REVISED	- A.	SCHUETZE	07-01-13
PLOT SCALE = 100.0000 / in.	CHECKED	-	A. HOUSEH	10-12-96	REVISED	- A.	SCHUETZE	09-15-16
PLOT DATE = 2/3/2022	DATE	- T.	RAMMACHER	01-06-00	REVISED	-		

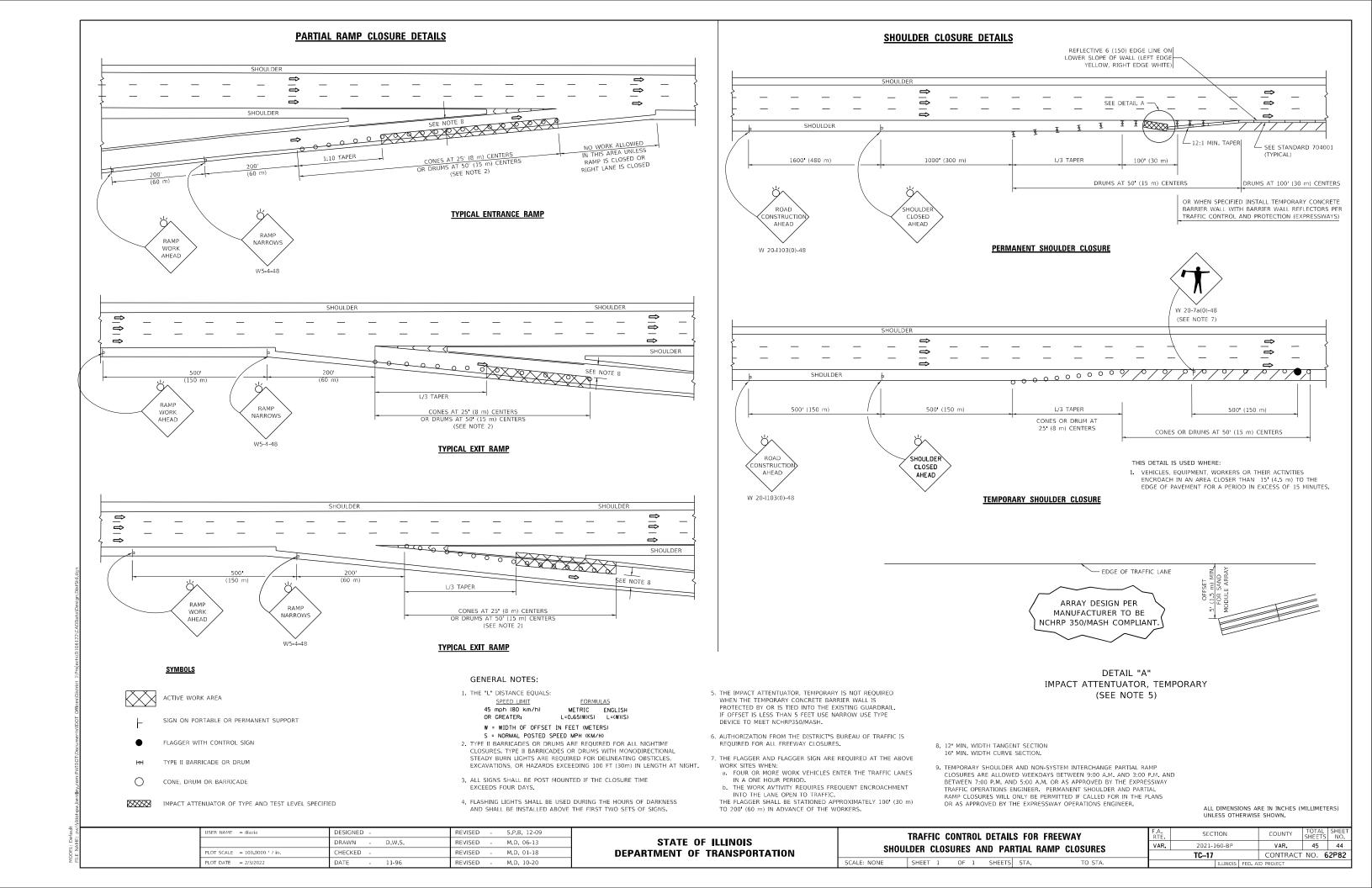
FIGURE 1

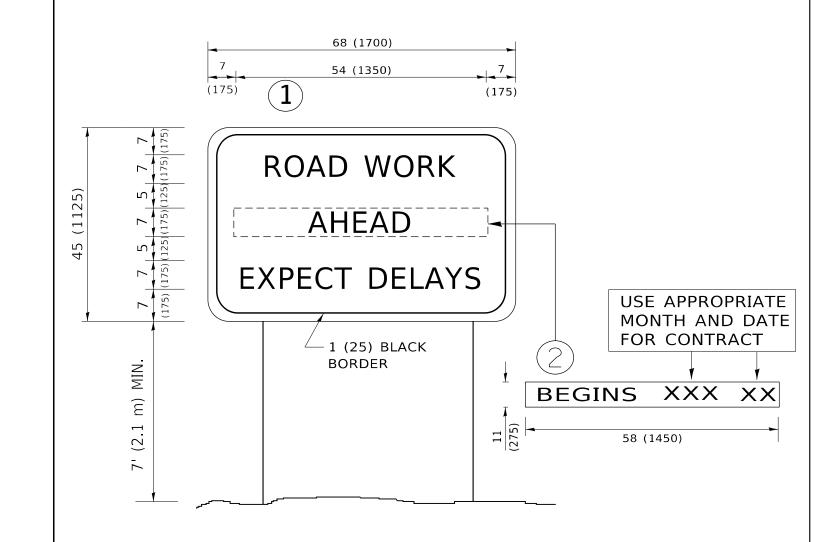
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

Ī	TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)							F.A. SECTION		
ı								2021-160-BP		
ļ								TC-14		
ı	SCALE: NONE	SHEET 1	OF 1	SHEETS	STA.	TO STA.		ILLINOIS FEE		

VAR. 45 43 CONTRACT NO. 62P82 SHEET 1 OF 1 SHEETS STA.

SEE DETAIL "A"





#### NOTES:

- 1. USE BLACK LETTERING ON ORANGE BACKGROUND.
- 2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
- 3. ERECT SIGN 1 WITH INSTALLED PANEL 2 ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
- 4. REMOVE PANEL(2)SOON AFTER THE START OF CONSTRUCTION.
- 5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
- 6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)

SCALE: NONE

7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

VAR. 45 45

CONTRACT NO. 62P82

USER NAME = diazia	DESIGNED -	REVISED	-	R. MIRS 09-15-97
	DRAWN -	REVISED	-	R. MIRS 12-11-97
PLOT SCALE = 100.0000 / in.	CHECKED -	REVISED	- T.	RAMMACHER 02-02-9
PLOT DATE = 2/3/2022	DATE -	REVISED	-	C. JUCIUS 01-31-07

ARTERIAL ROAD							F.A. RTE	SECTION		
			INE	ndi	MATION	CICN		VAR.	2021-160-	
	INFORMATION SIGN								TC-22	
	SHEET	1	OF	1	SHEETS	STA.	TO STA.		ILLI	