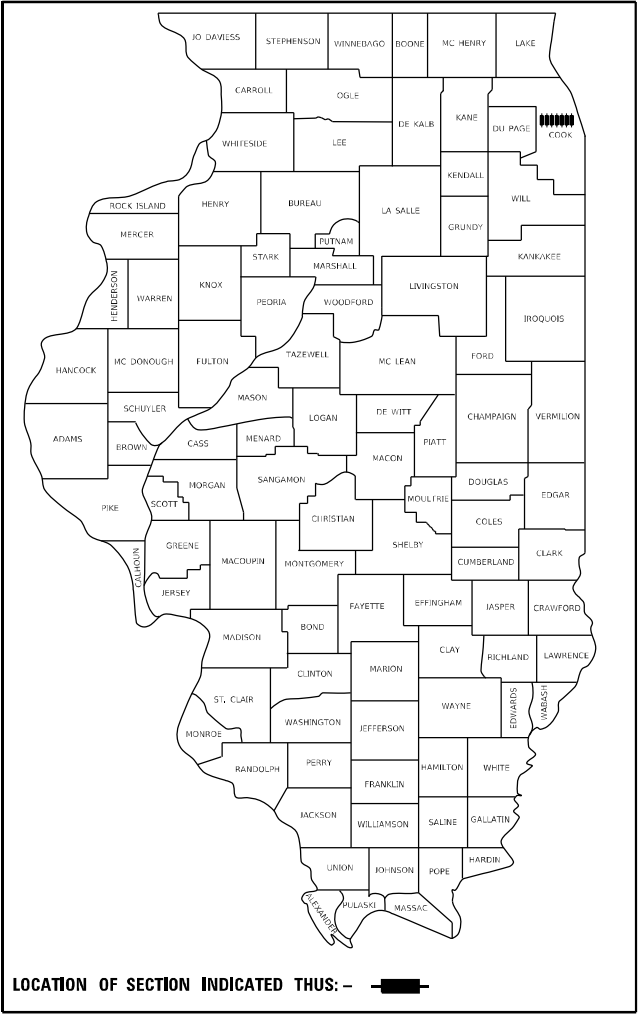


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-139-BP	COOK	46	1
		ILLINOIS	CONTRACT NO. 62P57	

D-91-022-22



FOR INDEX OF SHEETS, SEE SHEET NO. 2

IMPROVEMENTS ARE LOCATED IN THE VILLAGES OF
BROADVIEW, BELLWOOD, MAYWOOD AND FOREST PARK

TRAFFIC DATA:

I-290
2019 ADT: 186,200
POSTED SPEED LIMIT: 55MPH

25TH AVENUE
2018 ADT: 20,100
POSTED SPEED LIMIT: 30MPH

5TH AVENUE
2018 ADT: 9,600
POSTED SPEED LIMIT: 25MPH

17TH AVENUE
2018 ADT: 8,400
POSTED SPEED LIMIT: 30MPH

1ST AVENUE
2019 ADT: 22,600
POSTED SPEED LIMIT: 35MPH

DES PLAINES AVENUE
2018 ADT: 18,700
POSTED SPEED LIMIT: 25MPH

CIRCLE AVENUE
2018 ADT: 4,550
POSTED SPEED LIMIT: 25MPH

9TH AVENUE
2018 ADT: 8,250
POSTED SPEED LIMIT: 25MPH

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. 62P57

IMPROVEMENT LOCATION 1:
I-290 AT 25TH AVENUE
VILLAGE OF BELLWOOD &
VILLAGE OF BROADVIEW
SN: 016-0686

IMPROVEMENT LOCATION 2:
I-290 AT 5TH AVENUE
VILLAGE OF MAYWOOD
SN: 016-0692

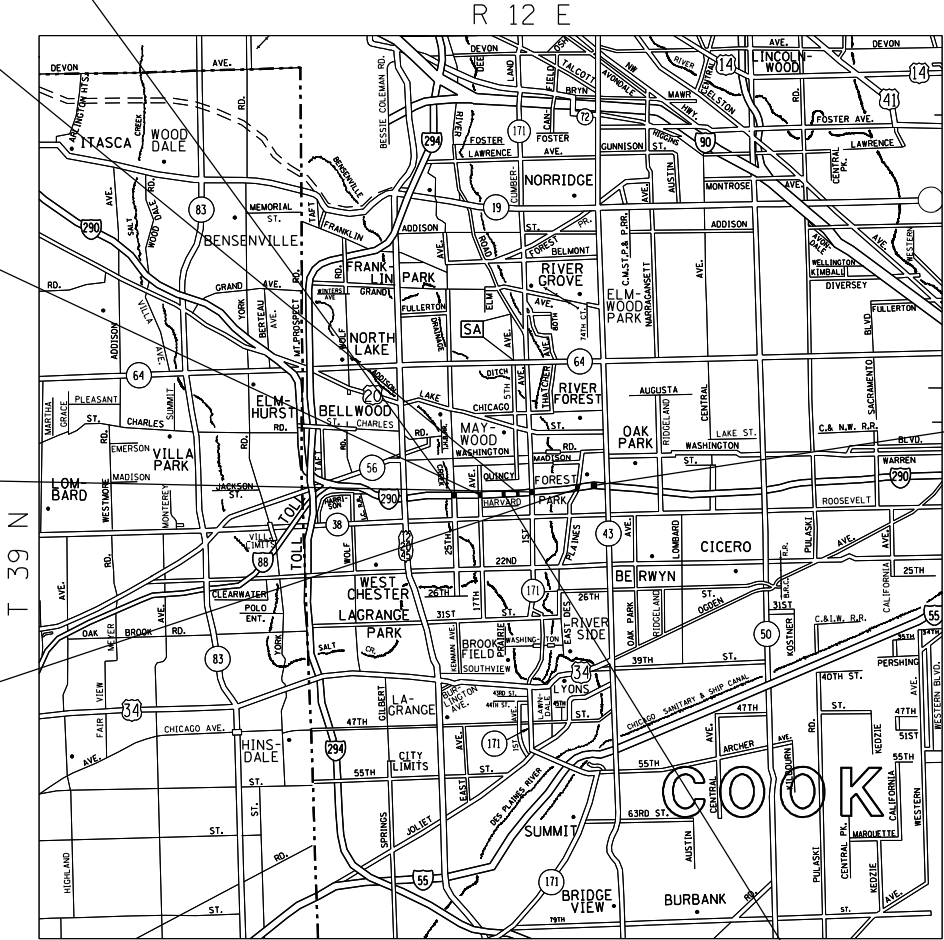
IMPROVEMENT LOCATION 3:
I-290 AT 17TH AVENUE
VILLAGE OF MAYWOOD &
VILLAGE OF BROADVIEW
SN: 016-0694

IMPROVEMENT LOCATION 4:
I-290 AT 1ST AVENUE
VILLAGE OF MAYWOOD &
VILLAGE OF FOREST PARK
SN: 016-0699

IMPROVEMENT LOCATION 5:
I-290 AT DES PLAINES AVENUE
VILLAGE OF FOREST PARK
SN: 016-0706

IMPROVEMENT LOCATION 6:
I-290 AT CIRCLE AVENUE
VILLAGE OF FOREST PARK
SN: 016-0995

IMPROVEMENT LOCATION 7:
I-290 AT 9TH AVENUE
VILLAGE OF MAYWOOD
SN: 016-2058



PROVISO TOWNSHIP

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED October 18 20 21
Jose Rios / OAB
REGIONAL ENGINEER
December 10 20 21
Stephen M. Fazio
ENGINEER OF DESIGN AND ENVIRONMENT
December 10 20 21
Stephen M. Fazio
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION 2

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
- 3-4. SUMMARY OF QUANTITIES
- 5-10. LOCATION 1 (SN 016-0686)
- 11-16. LOCATION 2 (SN 016-0692)
- 17-20. LOCATION 3 (SN 016-0694)
- 21-24. LOCATION 4 (SN 016-0699)
- 25-30. LOCATION 5 (SN 016-0706)
- 31-36. LOCATION 6 (SN 016-0995)
- 37-43. LOCATION 7 (SN 016-2058)
44. ENTRANCE AND EXIT RAMP CLOSURE DETAILS (TC-08)
45. TRAFFIC CONTROL DETAILS FOR FREEWAY SINGLE LANE
AND MULTI-LANE WEAVE (TC-09)
46. TRAFFIC CONTROL FOR FREEWAY SHOULDER CLOSURES
AND PARTIAL RAMP CLOSURES (TC-17)

GENERAL NOTES

1. 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).
3. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, THE VILLAGES OF BROADVIEW, BELLWOOD, MAYWOOD AND FOREST PARK.
4. 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.
5. IT SHALL BE THE CONTRACTOR’S RESPONSIBILITY TO VERIFY ALL THE DIMENSIONS & CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION & ORDERING OF MATERIALS.
6. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
7. THESE PLANS HAVE BEEN PREPARED FROM NOTES RECEIVED FROM THE BUREAU OF MAINTENANCE BRIDGE INSPECTORS.
8. 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.
9. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
10. THE “ARTERIAL ROAD INFORMATION SIGN (TC-22)” IS APPLICABLE ONLY TO ARTERIAL ROADS AND SHALL NOT BE APPLIED TO EXPRESSWAYS.
11. 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 BASED AT THE UNIT PRICE BID FOR THE WORK.
12. DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
13. 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](http://www.idotlcs.com) AT LEAST (24) HOURS IN ADVANCE OF ALL DAILY LANE, AND RAMP AND SHOULDER CLOSURES.

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”.
2. 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 -02/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 OF THE FASCIA BEAMS SHALL BE REDDISH BROWN, MUNSELL NO 2.5YR 3/4.
3. 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.
4. LOCATION 1 (SN 016-0686): (2 DECK JOINT OPENINGS; ABUTMENTS)
LOCATION 2 (SN 016-0692): (2 DECK JOINT OPENINGS; ABUTMENTS)
LOCATION 3 (SN 016-0694): (2 DECK JOINT OPENINGS; ABUTMENTS)
LOCATION 4 (SN 016-0699): (2 DECK JOINT OPENINGS; ABUTMENTS)
LOCATION 5 (SN 016-0706): (2 DECK JOINT OPENINGS; ABUTMENTS)
LOCATION 6 (SN 016-0995): (2 DECK JOINT OPENINGS; ABUTMENTS)
LOCATION 7 (SN 016-2058): (2 DECK JOINT OPENINGS; ABUTMENTS)
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.

STATE STANDARDS

STANDARD NO.

DESCRIPTION

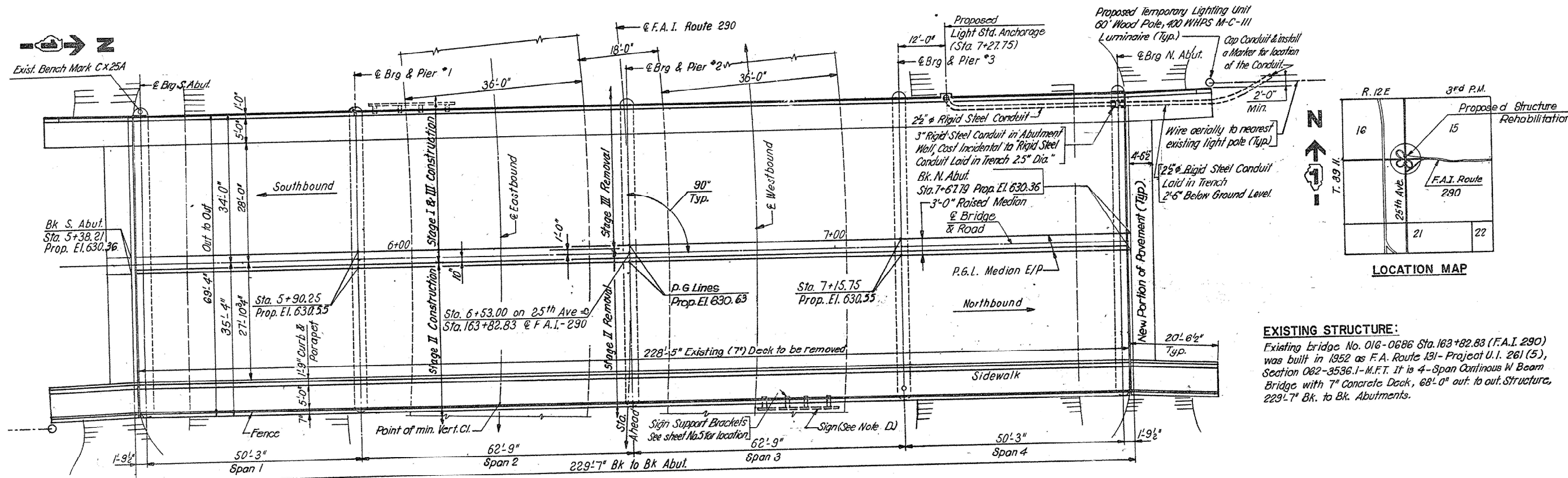
- 701101-05 OFF-ROAD OPERATIONS, MULTILANE, 15’ TO 24’’ FROM PAVEMENT EDGE
- 701106-02 OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15’ AWAY
- 701400-11 APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
- 701401-13 LANE CLOSURE, FREEWAY/EXPRESSWAY
- 701411-09 LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS ≥ 45 MPH
- 701428-01 TRAFFIC CONTROL, SETUP AND REMOVAL, FREEWAY/EXPRESSWAY
- 701446-11 TWO LANE CLOSURE, FREEWAY/EXPRESSWAY
- 701901-08 TRAFFIC CONTROL DEVICES

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		DRAWN	REVISED -			290	2021-139-BP	COOK	46	2
		PLOT SCALE = 100.0000' / in.	CHECKED -			CONTRACT NO. 62P57				
		PLOT DATE = 10/20/2021	DATE -			SCALE:	SHEET 1	OF 1	SHEETS	STA. TO STA.
Default						ILLINOIS FED. AID PROJECT				

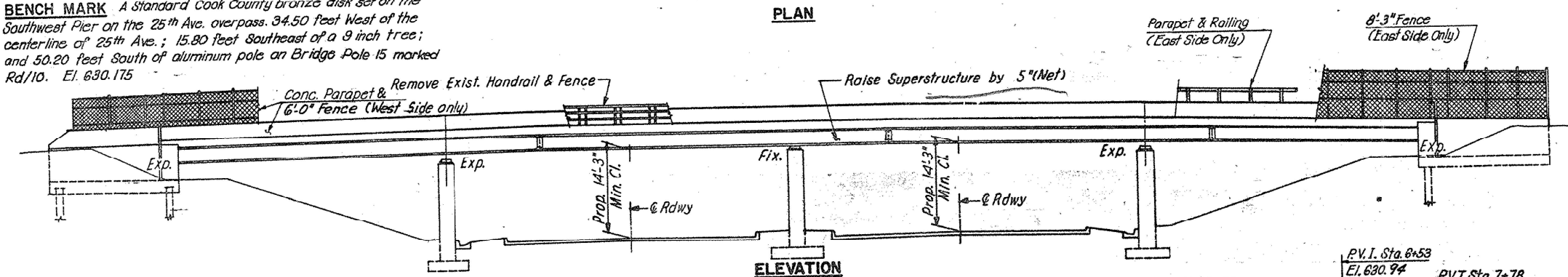
SUMMARY OF QUANTITIES			URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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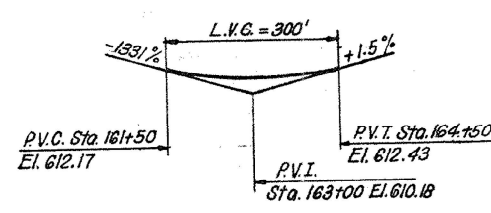
FOR INFORMATION ONLY



BENCH MARK A standard Cook County bronze disk set on the Southwest Pier on the 25th Ave. overpass. 34.50 feet West of the centerline of 25th Ave.; 15.80 feet Southeast of a 9 inch tree; and 50.20 feet South of aluminum pole on Bridge Pole 15 marked Rd/10. El. 630.175



PROPOSED PROFILE ALONG P.G.L. 25TH AVENUE
(Top of Concrete)



EXISTING PROFILE OF I-290
TOP OF CONCRETE
(Add 5 1/4" to get top of overlay El.)

USER NAME = dila	DESIGNED -	REVISED -
DRAWN -	REVISED -	
PLOT SCALE = 100,000' / in.	CHECKED -	REVISED -
PLOT DATE = 10/20/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION LOCATION 1: SN 016-0686 (25TH AVENUE)			
SCALE:	SHEET	OF	SHEETS
	STA.		TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-139-BP	COOK	46	5
CONTRACT NO. 62P57				
ILLINOIS FED. AID PROJECT				

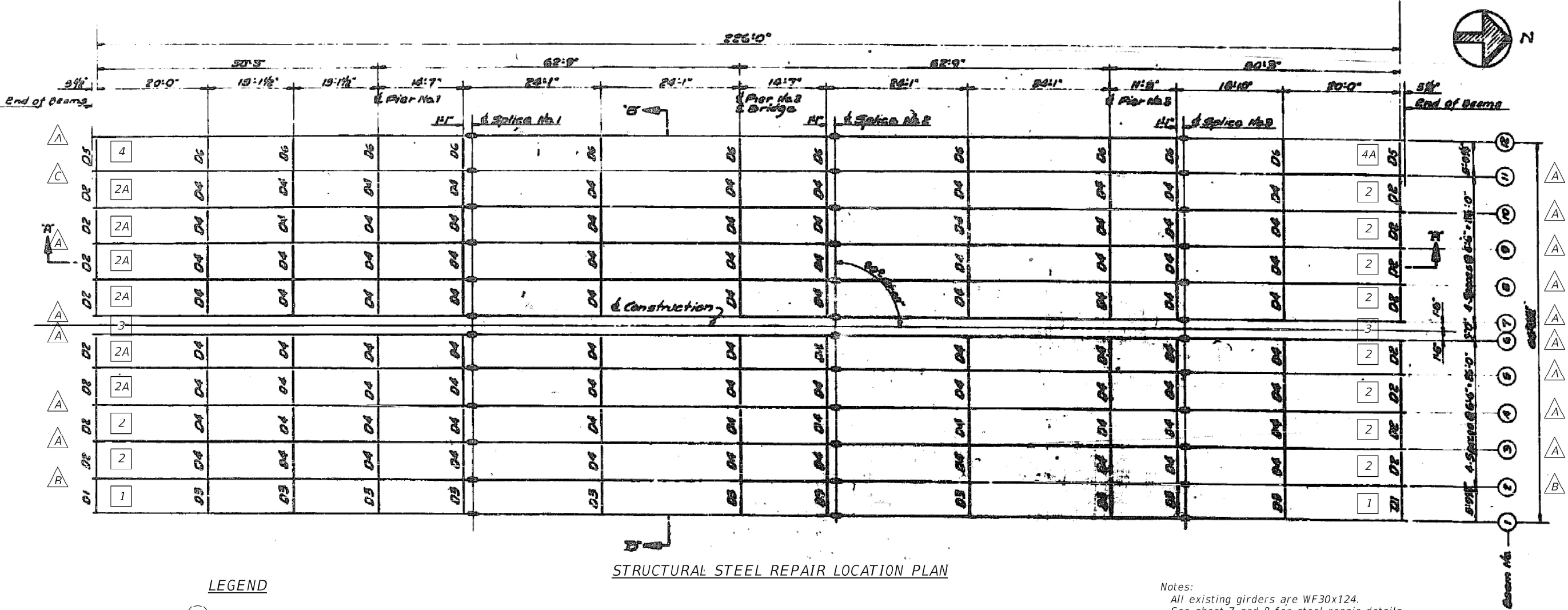
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SCALE:	SHEET	OF	SHEETS	STA.	TO STA.
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-139-BP	COOK	46	7
		CONTRACT NO. 62P57		
		ILLINOIS	FED. AID PROJECT	

FOR INFORMATION ONLY



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	DRAWN -	REVISED -
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PLOT DATE = 10/20/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURAL STEEL
LOCATION 1: SN 016-0686 (25TH AVENUE)

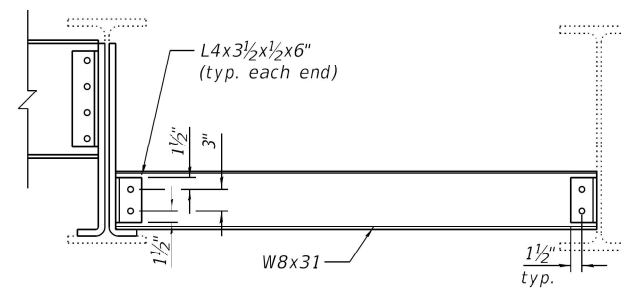
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62P57				
ILLINOIS FED. AID PROJECT				

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Type C similar



TYPE 1 DIAPHRAGM



Type 3 Similar



TABLE 1- DIAPHRAGMS

Diaphragm Type	Size	Length	Quantity
1	W8x31	5'-6 $\frac{3}{4}$ "	2
2	W16x36	6'-3 $\frac{3}{8}$ "	10
2A	W16x36	6'-3 $\frac{3}{8}$ "	6
3	W16x36	2'-9 $\frac{3}{8}$ "	2
4	W12x36	5'-6 $\frac{1}{4}$ "	1
4A	W12x36	5'-7 $\frac{1}{4}$ "	1

TABLE 2- BOLTS

Beam	South Abutment		North Abutment	
	Diaphragm	Plate Repair	Diaphragm	Plate Repair
1	6	-	6	-
2	18	55	18	55
3	16	24	16	24
4	16	24	16	24
5	16	-	16	24
6	16	24	16	24
7	16	24	16	24
8	16	-	16	24
9	16	24	16	24
10	16	-	16	24
11	16	55	16	55
12	12	24	12	-

Notes:

All holes $\frac{13}{16}$ " $\varnothing$ for $\frac{3}{4}$ " $\varnothing$ bolts unless noted otherwise.

All plates shall be $\frac{1}{2}$ " thick unless noted otherwise.

See sheet 6 of 8 for repair locations.

Installation of new diaphragms shall not commence until all bolts for new web plates and clip angles are fully tightened.

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."

Existing bearing studs to be cut flush with bottom of beam bottom flange.

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PLOT SCALE = 100,0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 10/20/2021	DATE -	REVISED -

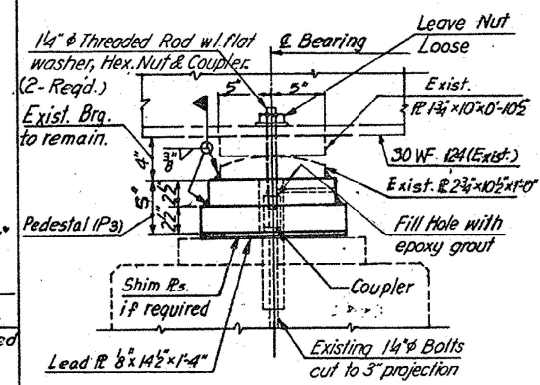
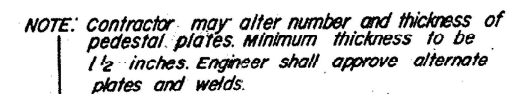
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EXISTING STRUCTURAL STEEL
LOCATION 1: SN 016-0686 (25TH AVENUE)

SCALE:	SHEET	OF	SHEETS	STA.	TO STA.
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F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-139-BP	COOK	46	9
		CONTRACT NO. 62P57		
ILLINOIS		FED. AID PROJECT		

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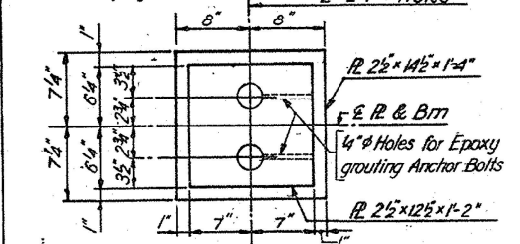


SECTION AT PIER NO. 2

Note: Cut Exist. 14" ϕ Bolts to projection.

$\frac{1}{2}$ Bearing

2-24" ϕ Holes



PLAN OF PEDESTAL P3

Estimated wt. of Pedestal $P_3 = 294$ Lbs.

FIXED BEARING DETAILS AT PIER NO. 2

NO. REQUIRED = 12

BEARING REPLACEMENT NOTES :

g. TYPE II TFE ELASTOMERIC EXPANSION BEARINGS:

RAISE BRIDGE 6" ±
REMOVE EXISTING BEARING.
INSTALL PEDESTAL.
INSTALL ELASTOMERIC BEARING ON PEDESTAL.
INSTALL 3/4" Ø THREADED BOLT TO A TIGHT FIT. INSTALL WASHERS
AND NUTS.

63. b. ROCKER BEARINGS:

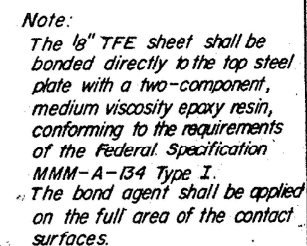
3 RAISE BRIDGE 6" ±
INSTALL PEDESTAL IN ACCORDANCE WITH SETTING DIAGRAM AND GROUT
HOLES AROUND ANCHOR BOLTS WITH EPOXY GROUT (COST OF GROUTING
INCIDENTAL TO STRUCTURAL STEEL.)
WELD BOTTOM PLATE TO PEDESTAL.

d. FIXED BEARING:

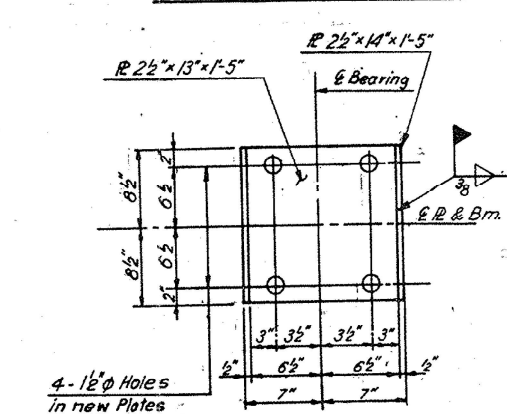
1. REMOVE NUTS FROM ALL BEARINGS.
2. RAISE BRIDGE 6" ±
3. REMOVE EXISTING BOTTOM BRG. PLATE.
4. INSTALL COUPLER.
5. INSTALL BUILT UP PLATES & EXIST. BOTTOM BRG. PLATE.
6. INSTALL 1 1/2" Ø X 8" THREADED ROD TO A TIGHT FIT.
7. HELD BOTTOM BRG. PLATE TO PEDESTAL.
8. EPOXY GROUT ANCHOR BOLTS AFTER LOWERING BRIDGE.

GENERAL NOTES:

1. BROKEN OR LOOSE BOLTS SHALL BE REPLACED TO THE SATISFACTION OF THE ENGINEER. COST INCIDENTAL.
2. CONTRACTOR SHALL SUPPLY ADDITIONAL 3/4" PLATES IF REQUIRED TO BRING DEVICES TO GRADE.
3. COST OF ALL NEW MATERIAL INCLUDED IN STRUCTURAL STEEL CUTTING AND RETHRADING ANCHOR BOLTS INCIDENTAL TO STRUCTURAL STEEL.
4. LOCATION OF EXISTING BOLTS SHALL BE FIELD VERIFIED PRIOR TO FABRICATION OF PEDESTAL.

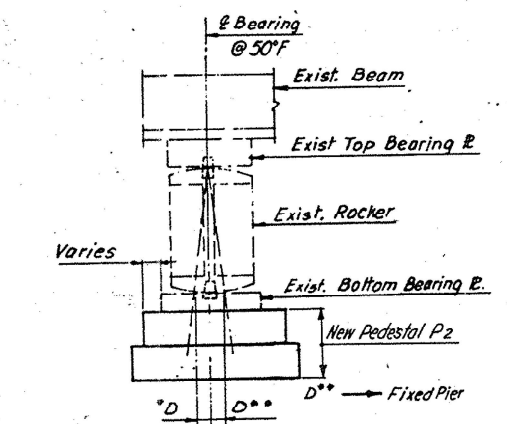


Bonding of 1/8" TFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.



PLAN OF PEDESTAL P2
Estimated wt. of Pedestal P2 = 332 lbs

ROCKER BEARING DETAILS AT PIER NO. 1 & 3
NO. REQUIRED = 24



*D = $\frac{1}{8}$ "/100 Ft. of exp. for every 15' below the normal temp. of 50°

SETTING BOTTOM BEARING PLATE
OF ROCKER BEARING AT PIER NO. 1 & 3

USER NAME = diazia	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 10/20/2021	DATE -	REVISED -

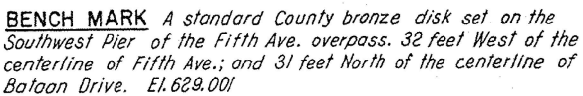
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING BEARING DETAILS
LOCATION 1: SN 016-0686 (25TH AVENUE)

SCALE:	SHEET	OF	SHEETS	STA.	TO STA.
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PLOT DATE = 10/20/2021	DATE -	REVISED -

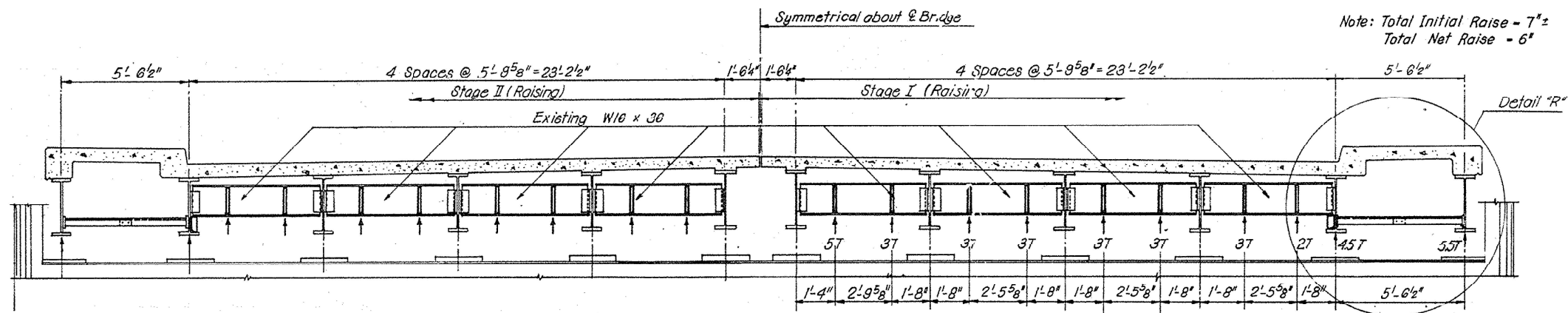
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
LOCATION 2: SN 016-0692 (5TH AVENUE)

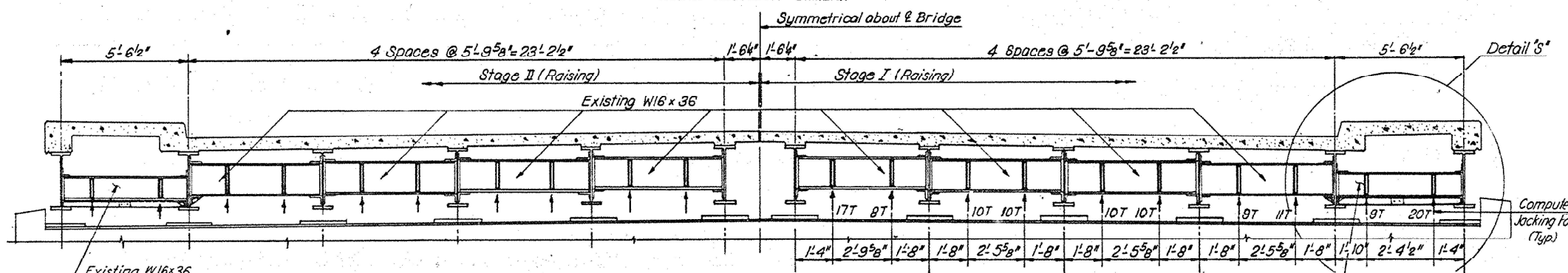
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-139-BP	COOK	46	11
		CONTRACT NO. 62P57		
ILLINOIS		FED. AID PROJECT		

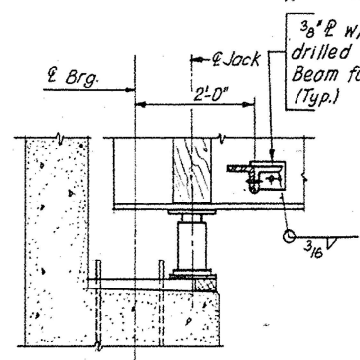
FOR INFORMATION ONLY



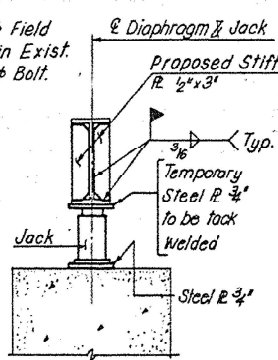
ELEVATION AT ABUTMENT
(SHOWING LOCATION OF JACKS)
SOUTH ABUTMENT SHOWN (LOOKING SOUTH)
NORTH ABUTMENT SIMILAR



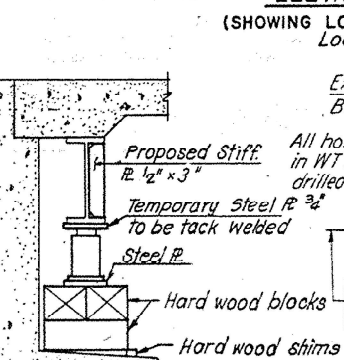
ELEVATION AT PIERS
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Looking South



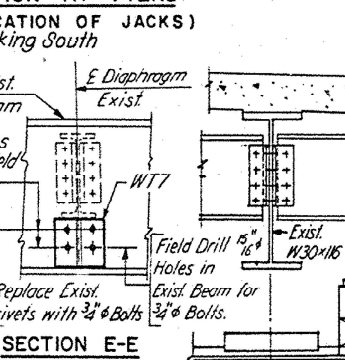
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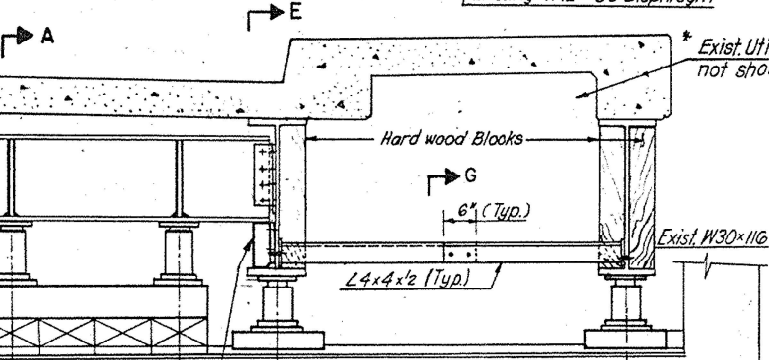
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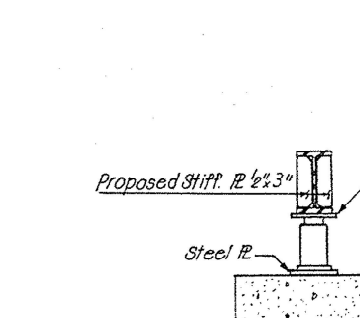
SECTION A-A



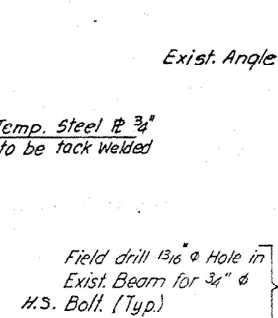
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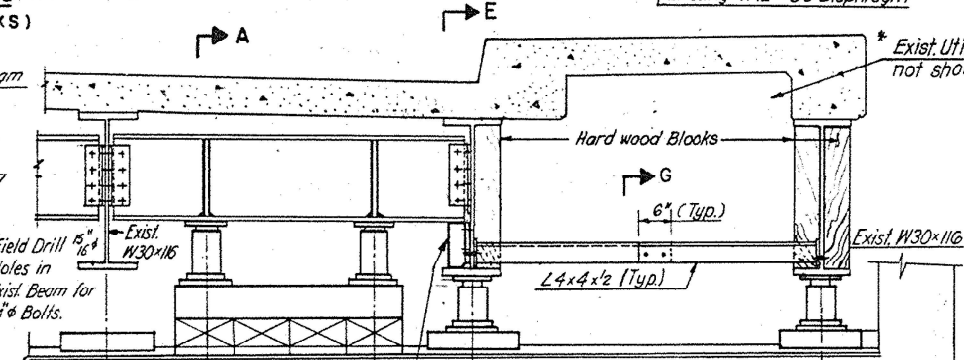
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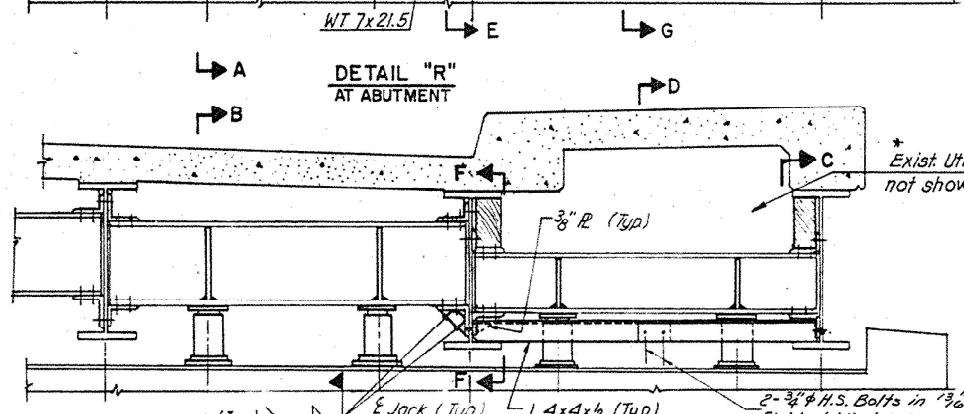
SECTION C-C



SECTION F-F



DETAIL "R" AT ABUTMENT



DETAIL "S" AT PIER

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

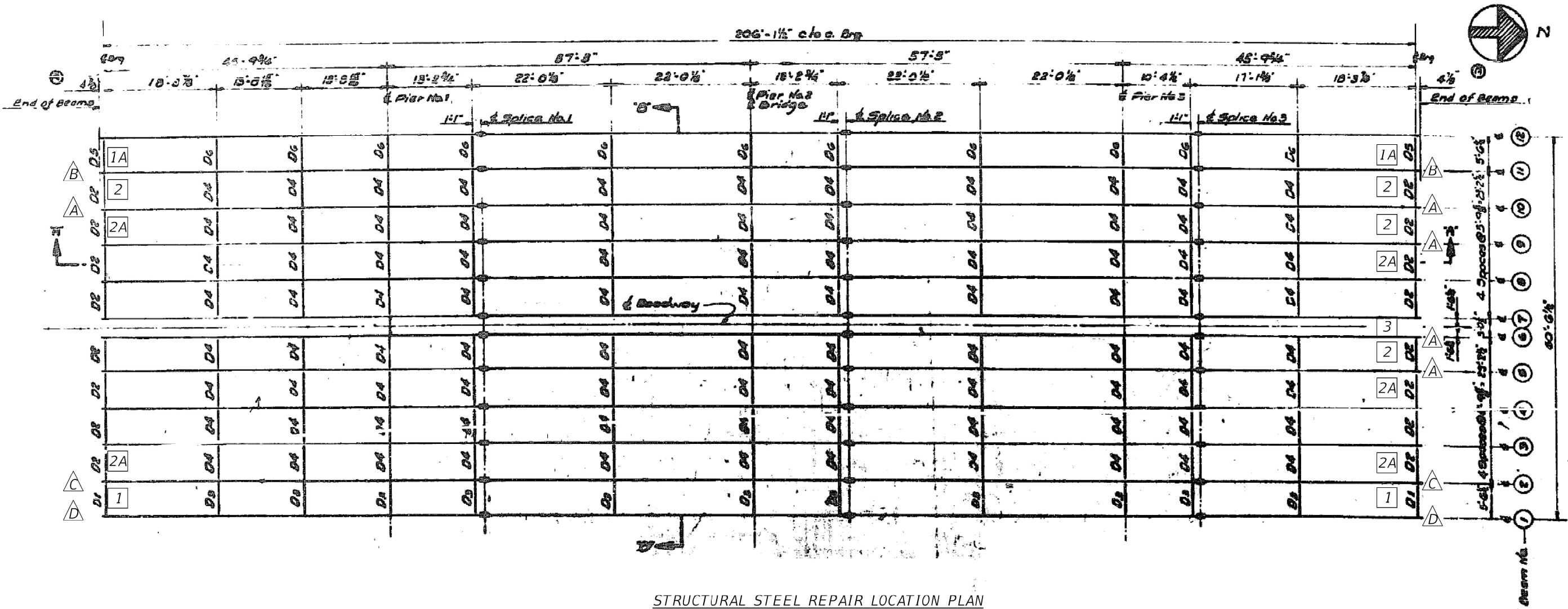
EXISTING SUPER STRUCTURE DETAILS
LOCATION 2: SN 016-0692 (5TH AVENUE)

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PLOT DATE = 10/20/2021	CHECKED -	REVISED -
	DATE -	REVISED -

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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-139-BP	COOK	46	12
CONTRACT NO. 62P57				
ILLINOIS FED. AID PROJECT				

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STRUCTURAL STEEL REPAIR LOCATION PLAN

LEGEND

- ② Beam Number
- △ Beam End Repair Type
- 1 Diaphragm Type

Notes:
All existing girders are WF30x116.
See sheet 6 and 7 for steel repair details.

MODEL: Default
FILE: \Users\paul\Documents\DOT Office\District 1\Projects\102222-CA\Drawings\102222-struct.dgn

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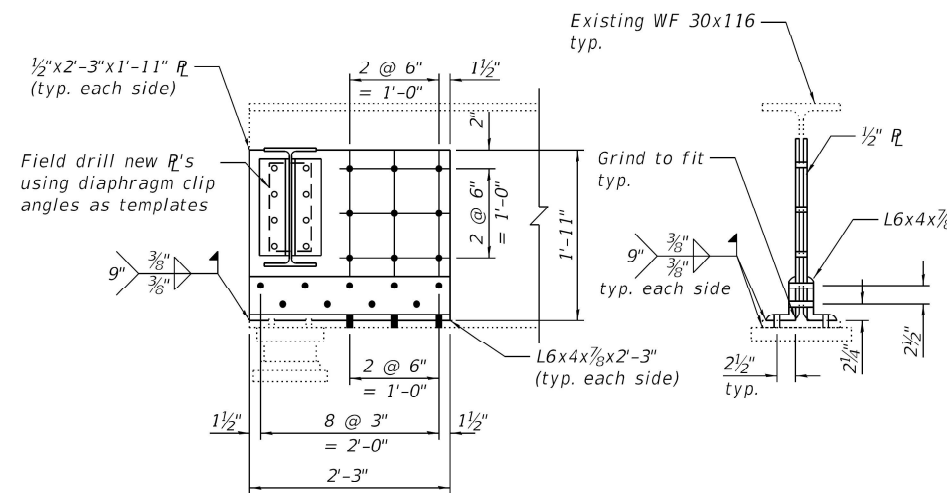
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURAL STEEL
LOCATION 2: SN 016-0692 (5TH AVENUE)

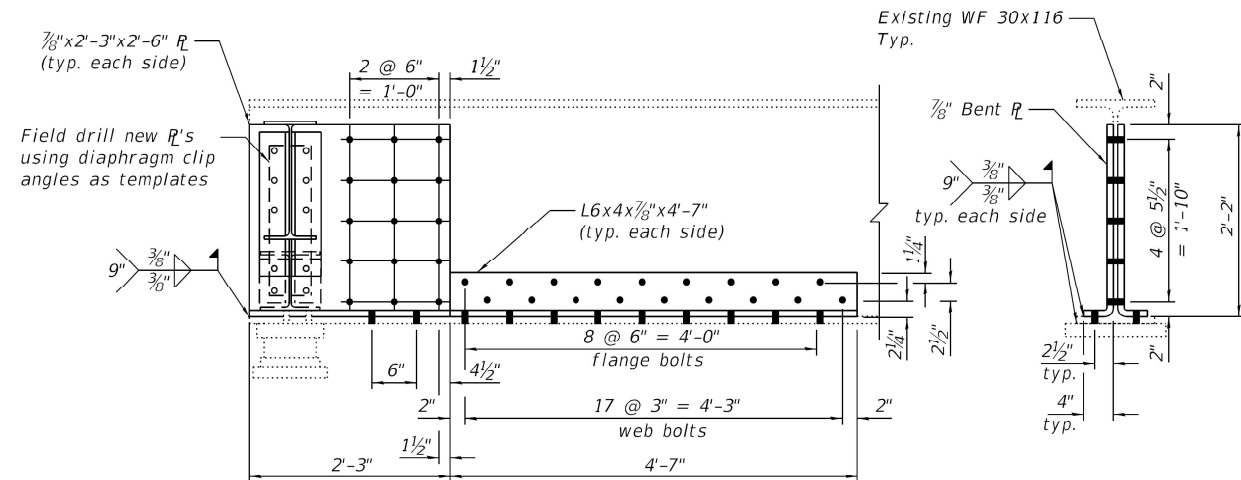
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62P57				
ILLINOIS FED. AID PROJECT				

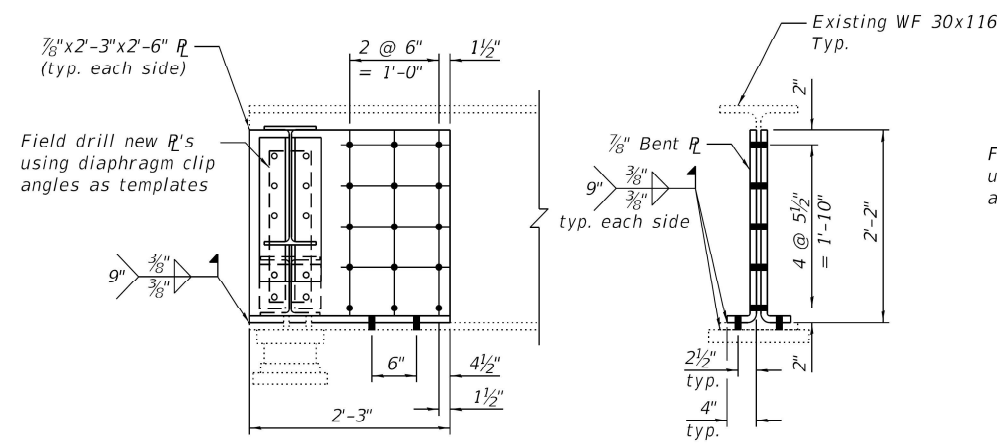
FOR INFORMATION ONLY



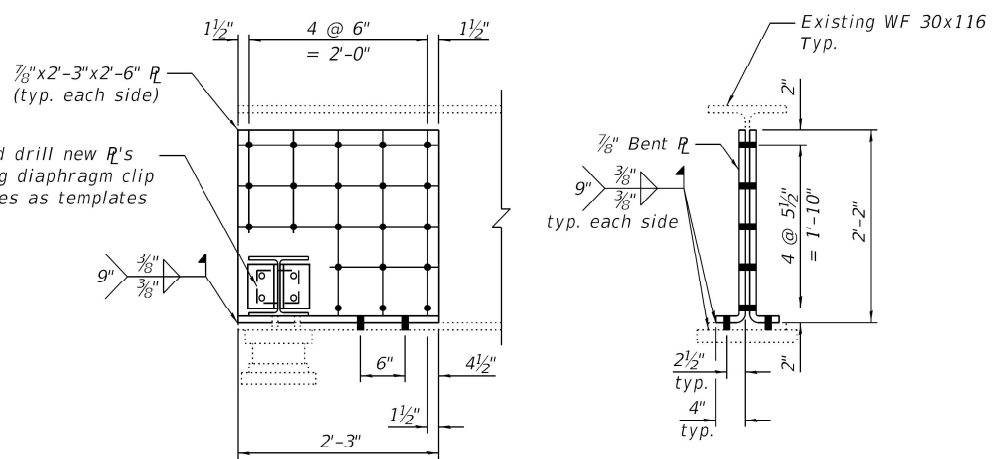
TYPE A BEAM END REPAIR



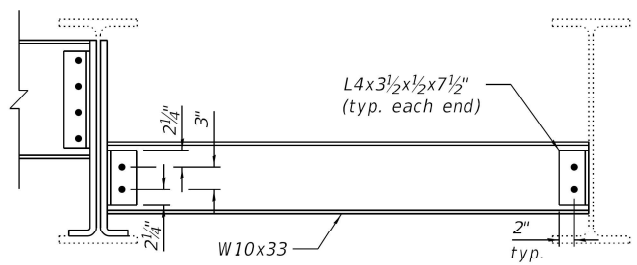
TYPE B BEAM END REPAIR



TYPE C BEAM END REPAIR

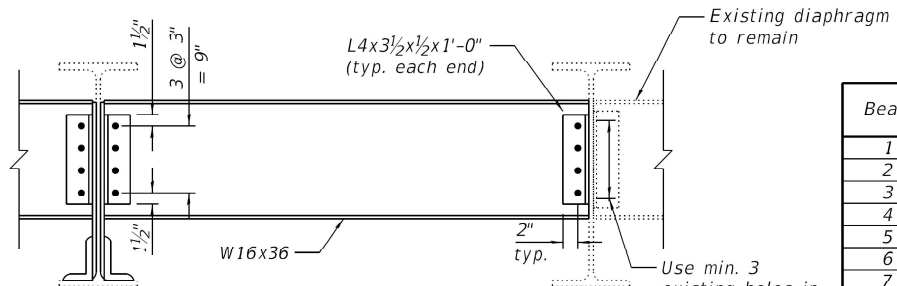


TYPE D BEAM END REPAIR



TYPE 1 DIAPHRAGM

Type 1A similar



TYPE 2 DIAPHRAGM

Type 2A & 3 similar

TABLE 1- DIAPHRAGMS

Diaphragm Type	Size	Length	Quantity
1	W10x33	5'-3 1/8"	2
1A	W10x33	5'-4"	2
2	W16x36	5'-7"	4
2A	W16x36	5'-7 1/2"	5
3	W16x36	2'-9 1/8"	1

TABLE 2- BOLTS

Beam	South Abutment		North Abutment	
	Diaphragm	Plate Repair	Diaphragm	Plate Repair
1	6	25	6	25
2	18	19	18	19
3	12	-	12	-
4	-	-	-	-
5	-	-	16	24
6	-	-	16	24
7	-	-	12	-
8	-	-	12	-
9	12	-	16	24
10	16	24	16	24
11	18	55	18	55
12	6	-	6	-

Notes:
Existing bearing studs to be cut flush with bottom of beam bottom flange.
Cost of drilling holes in existing steel members is included with Structural Steel Repair.
All holes 1 1/4" Ø for 3/4" Ø bolts unless noted otherwise. Cost of drilling holes in existing steel members is included with Furnishing and Erecting Structural Steel.
All plates shall be 1/2" thick unless noted otherwise.
See sheet 5 of 7 for repair locations.
Installation of new diaphragms shall not commence until all bolts for new web plates and clip angles are fully tightened.
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."

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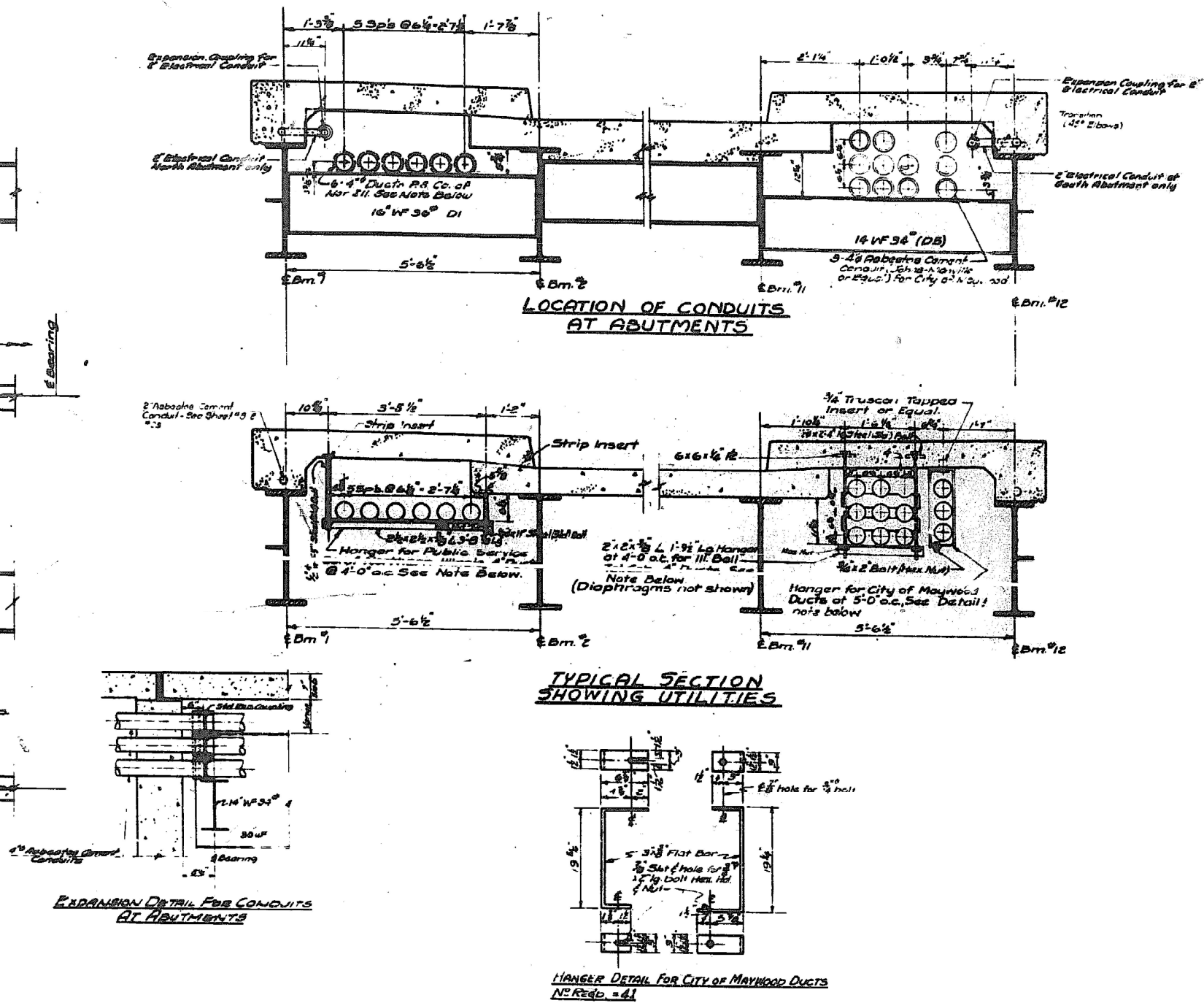
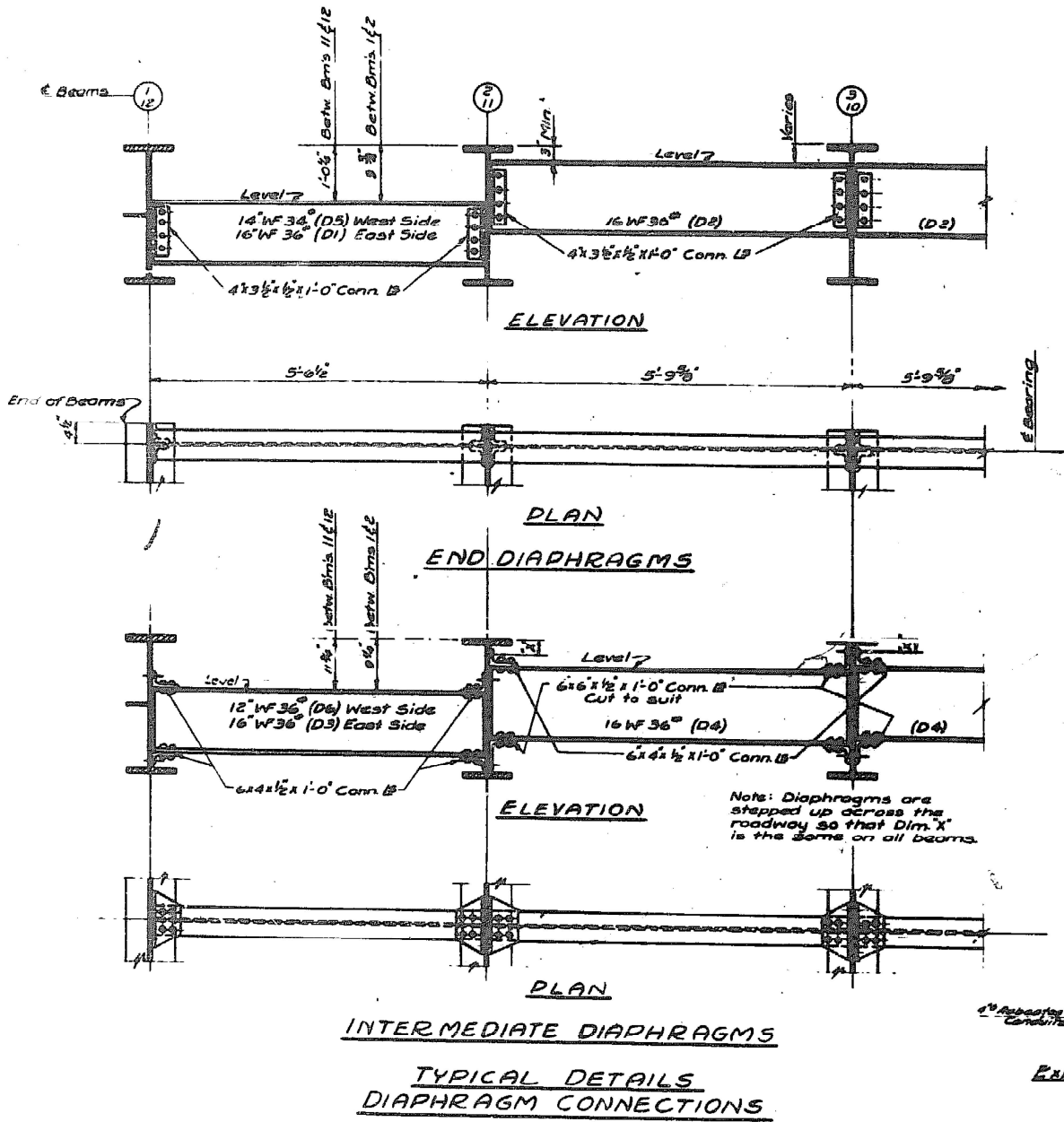
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURAL STEEL LOCATION 2: SN 016-0692 (5TH AVENUE)			
SCALE:	SHEET	OF	SHEETS
STA.	TO	STA.	TO

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-139-BP	COOK	46	14
CONTRACT NO. 62P57				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY



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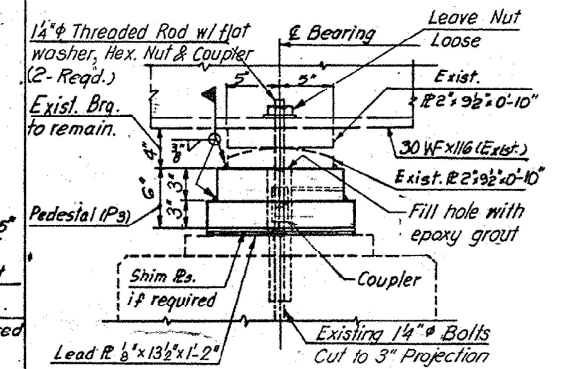
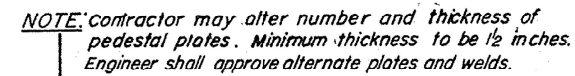
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	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURAL STEEL & UTILITY CONDUITS LOCATION 2: SN 016-0692 (5TH AVENUE)			
SCALE:	SHEET	OF	SHEETS
	STA.		TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62P57				
ILLINOIS FED. AID PROJECT				

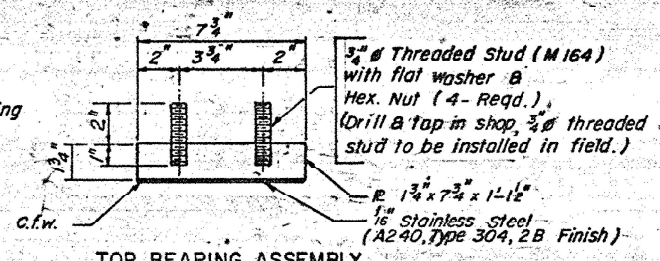
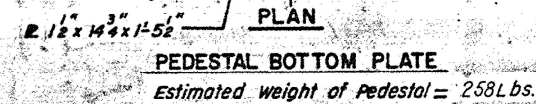
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Hand-drawn technical drawing of a rectangular plate with dimensions and annotations:

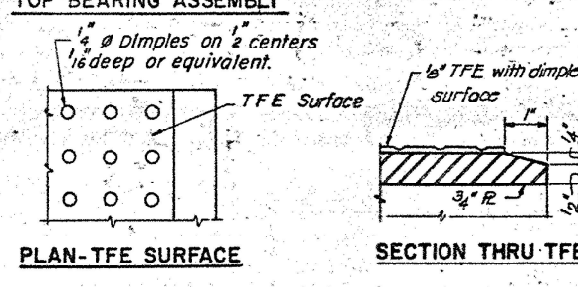
- Overall Dimensions:**
 - Width: 12"
 - Height: 6 1/2"
- Internal Dimensions and Features:**
 - Top edge: 6 1/2" (total), 5 1/2" (left of center), 5 1/2" (right of center).
 - Left edge: 1" (from left corner to inner edge), 3" (width of inner section), 2 3/4" (width of middle section), 2 3/4" (width of right section).
 - Right edge: 7" (from right corner to inner edge), 7" (width of outer section).
 - Bottom edge: 1" (from bottom corner to inner edge), 6" (width of left section), 6" (width of right section).
- Annotations:**
 - Top right: "E Bearing" with an arrow pointing to the top edge.
 - Top right: "2-2'Ø Holes" with an arrow pointing to two circular holes.
 - Right side: "R 3' x 1 3/2' x 1'-2'" with an arrow pointing to the right edge.
 - Right side: "E P & Bm." with an arrow pointing to the right edge.
 - Bottom right: "4'Ø Holes for Epoxy grouting anchor bolts." with an arrow pointing to two circular holes.
 - Bottom right: "R 3' x 1 1/2' x 1'-0'" with an arrow pointing to the bottom edge.

BEARING DETAILS AT PIER NO. 2
NO. REQUIRED = 12

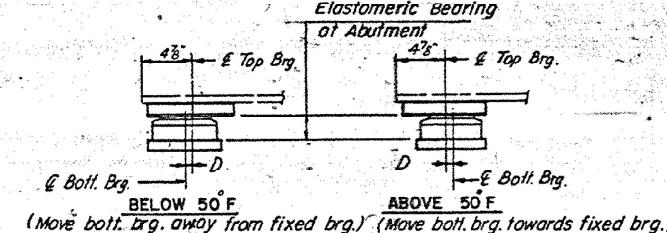


Note:
The 1/8" TFE sheet shall be bonded directly to the top steel plate with a two-component, medium viscosity epoxy resin, conforming to the requirements of the Federal Specification MMM-A-134 Type I.
The bond agent shall be applied on the full area of the contact surfaces.

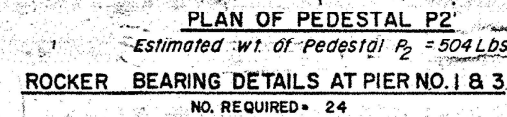
Bonding of 1/8" TFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.



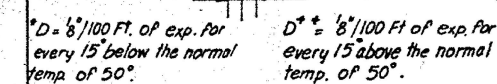
SECTION THRU TFE



$D = .8''$ per each 100' of expansion for every 15° temp. change from the normal temp. of 50°F



NO. REQUIRED - 24

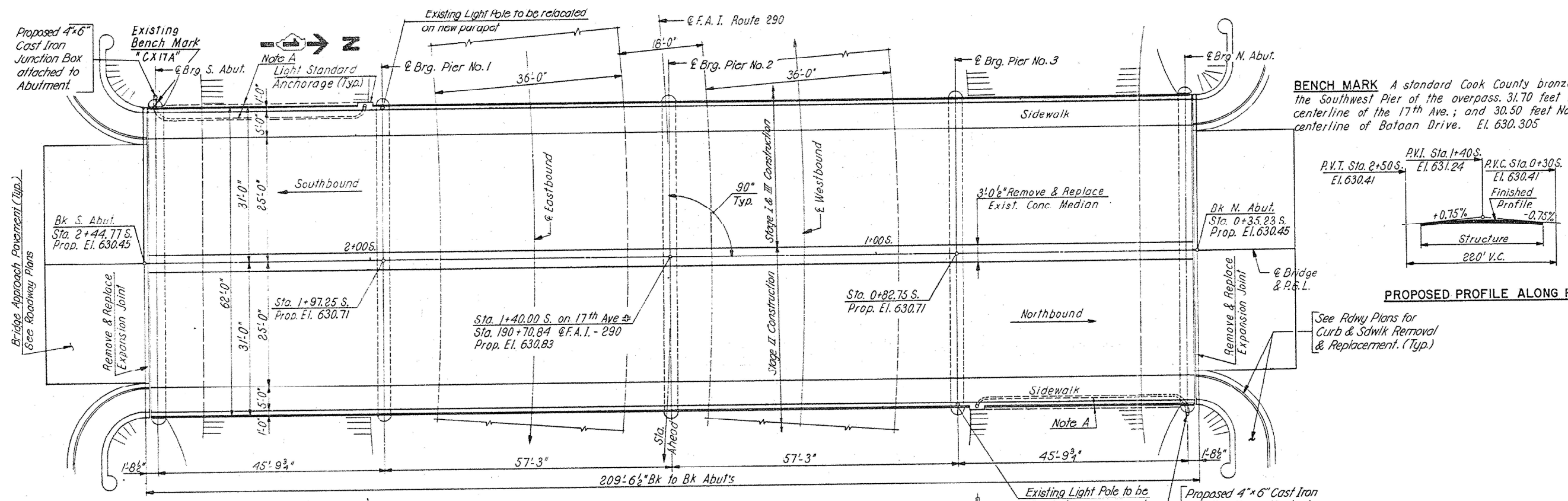


SETTING BOTTOM BEARING PLATE
OF ROCKER BEARING AT PIER NO. 1 & 3

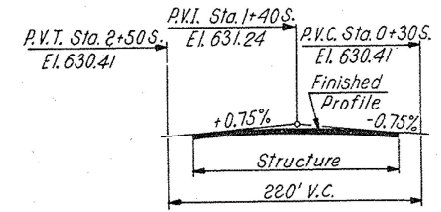
EXISTING BEARING DETAILS
LOCATION 2: SN 016-0692 (5TH AVENUE)

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-139-BP	COOK	46	16
		CONTRACT NO. 62P57		
ILLINOIS		FED. AID PROJECT		

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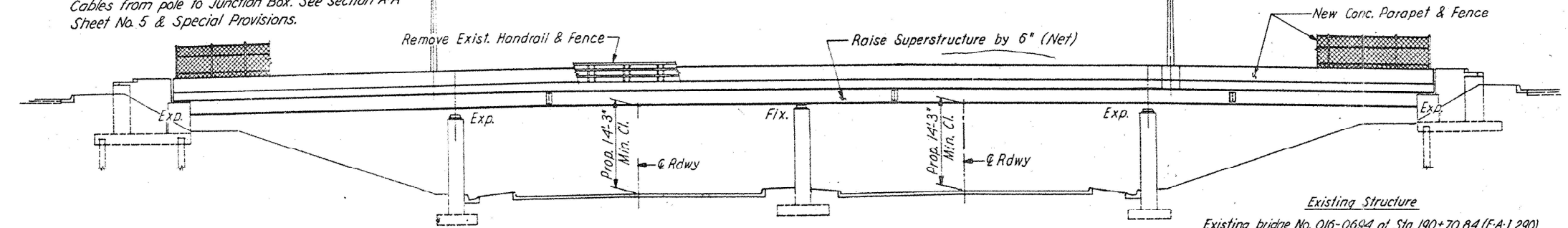


BENCH MARK A standard Cook County bronze disk set on the Southwest Pier of the overpass. 31.70 feet West of the centerline of the 17th Ave.; and 30.50 feet North of the centerline of Bataan Drive. El. 630.305



PROPOSED PROFILE ALONG PGL 17TH AVENUE

Note A: Remove existing 2" rigid steel conduit and reattach to underside of slab. Provide new No. 8 AWG electric Cables from pole to Junction Box. See section A-A Sheet No. 5 & Special Provisions.



Existing Structure
Existing bridge No. 016-0694 at Sta. 190+70.84 (F.A.I. 290) was built in 1952 as F.A. Route 131-Project U.I. 261(14), Section 062-3535-1-MFT. It is a 4-Span Continuous W Beam Bridge with 7" Concrete Deck, 62'-0" out to out Structure, 209'-6 1/2" Bk. to Bk. Abutments.

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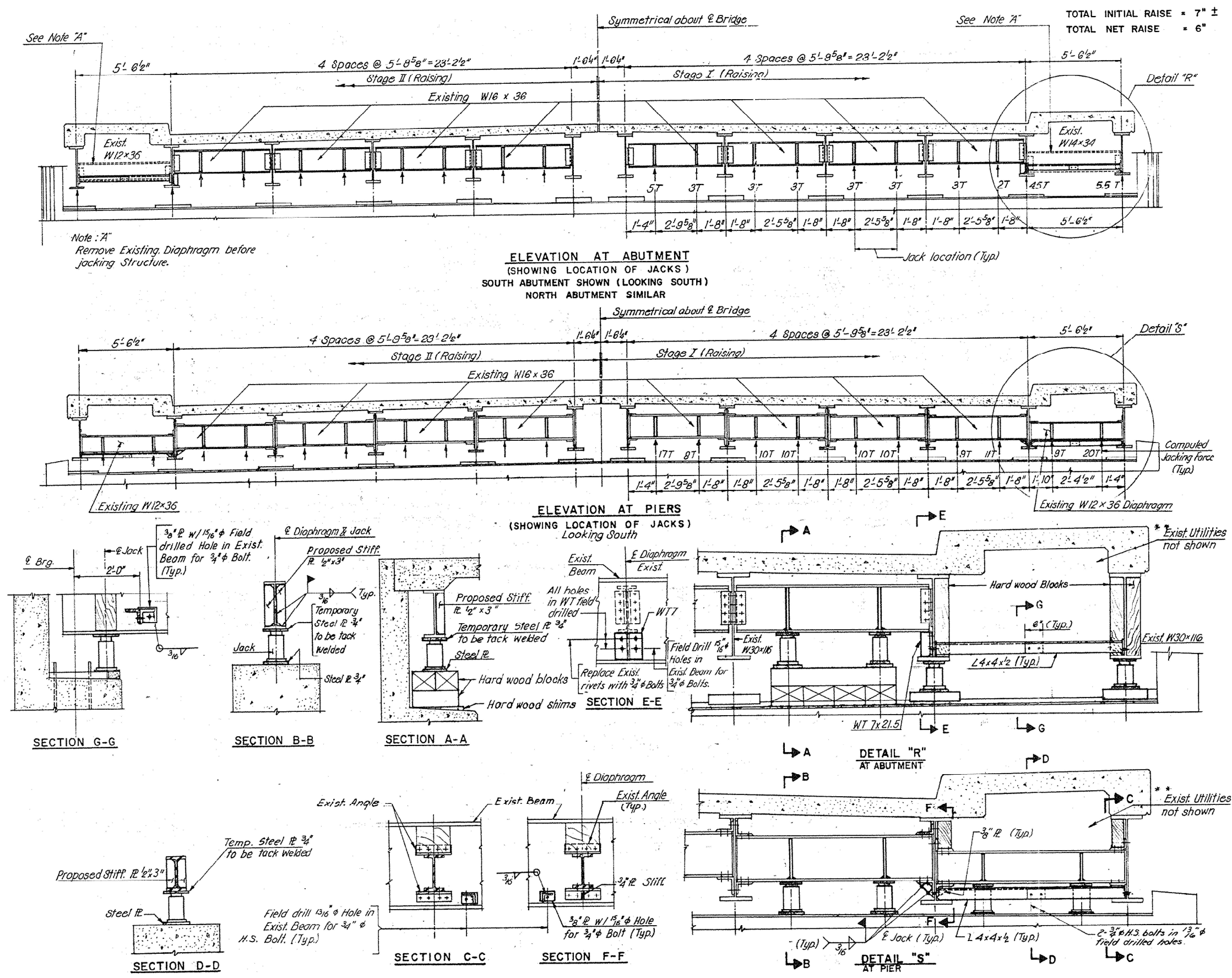
GENERAL PLAN AND ELEVATION
LOCATION 3: SN 016-0694 (17TH AVENUE)

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-139-BP	COOK	46	17
CONTRACT NO. 62P57				
ILLINOIS FED. AID PROJECT				

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PLOT DATE = 10/20/2021	CHECKED -	REVISED -
	DATE -	REVISED -

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PROJECT: 2021-139-BP-17TH AVENUE
SHEET: 17 OF 46
DATE: 10/20/2021

FOR INFORMATION ONLY



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	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

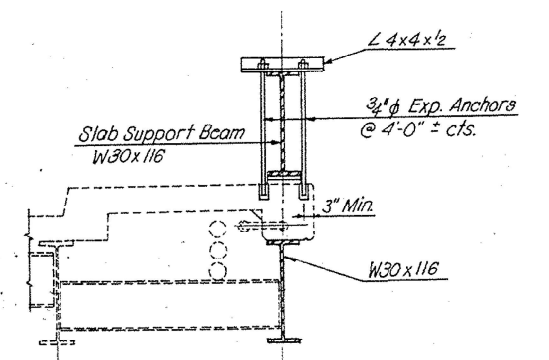
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EXISTING SUPER STRUCTURE DETAILS
LOCATION 3: SN 016-0694 (17TH AVENUE)

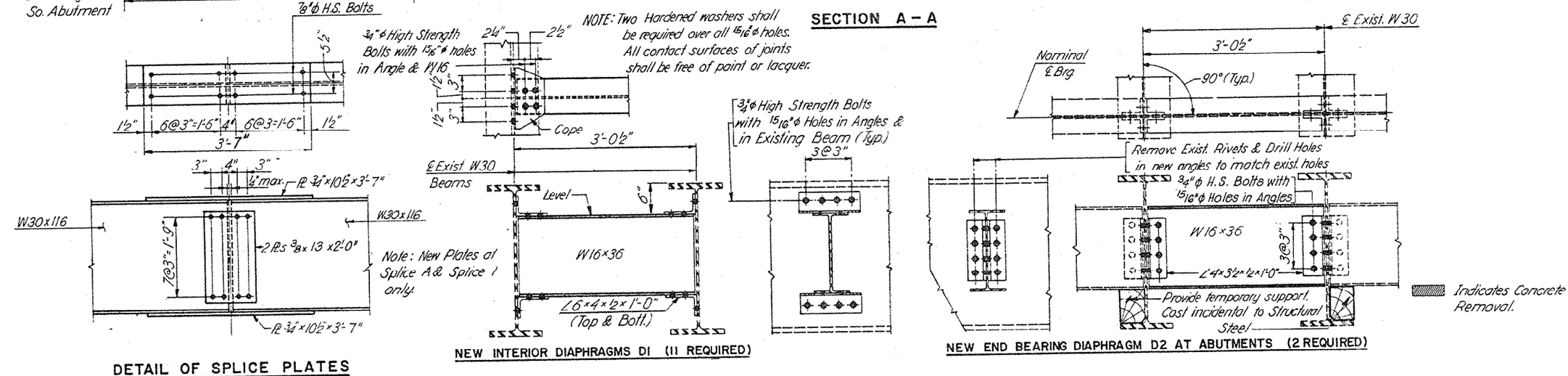
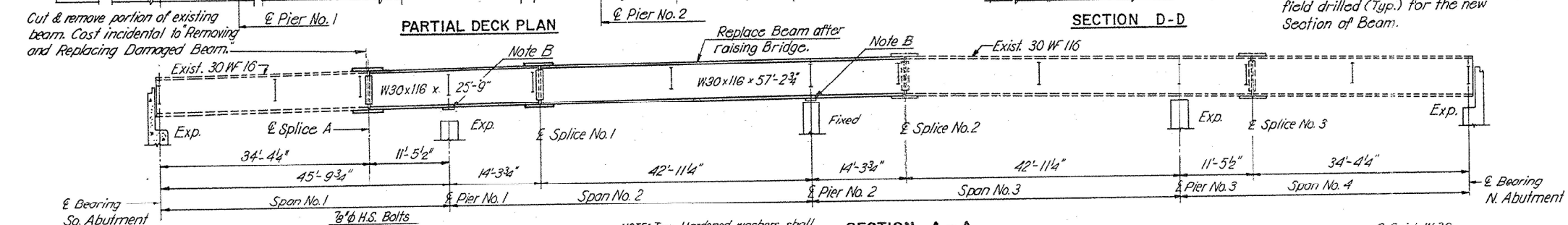
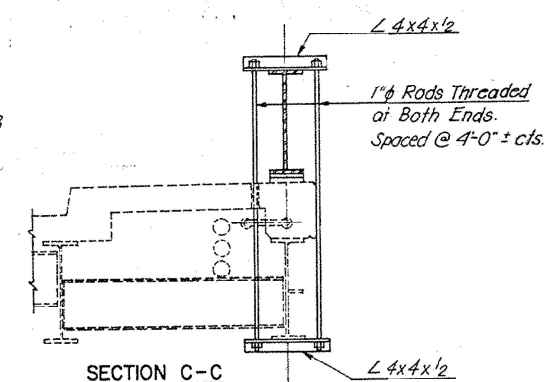
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-139-BP	COOK	46	18
CONTRACT NO. 62P57				
ILLINOIS FED. AID PROJECT				

Note B: Remove top bearing plate from damaged beam in accordance with Note C on sheet No. 7 of I3 and shop weld it to new beam with 1/2" c.f.w. all around. Verify all dimensions in field prior to fabrication. Reset existing bearings per details on sheet 7 of I3. Cost of removing and rewelding bearing plate included in item "Removing and Replacing Damaged Beam."

206'-1 1/2" c to c. Brg



NOTE :
For Details of D3
see sheet 4 of 13.



USER NAME = diazla	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 10/20/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

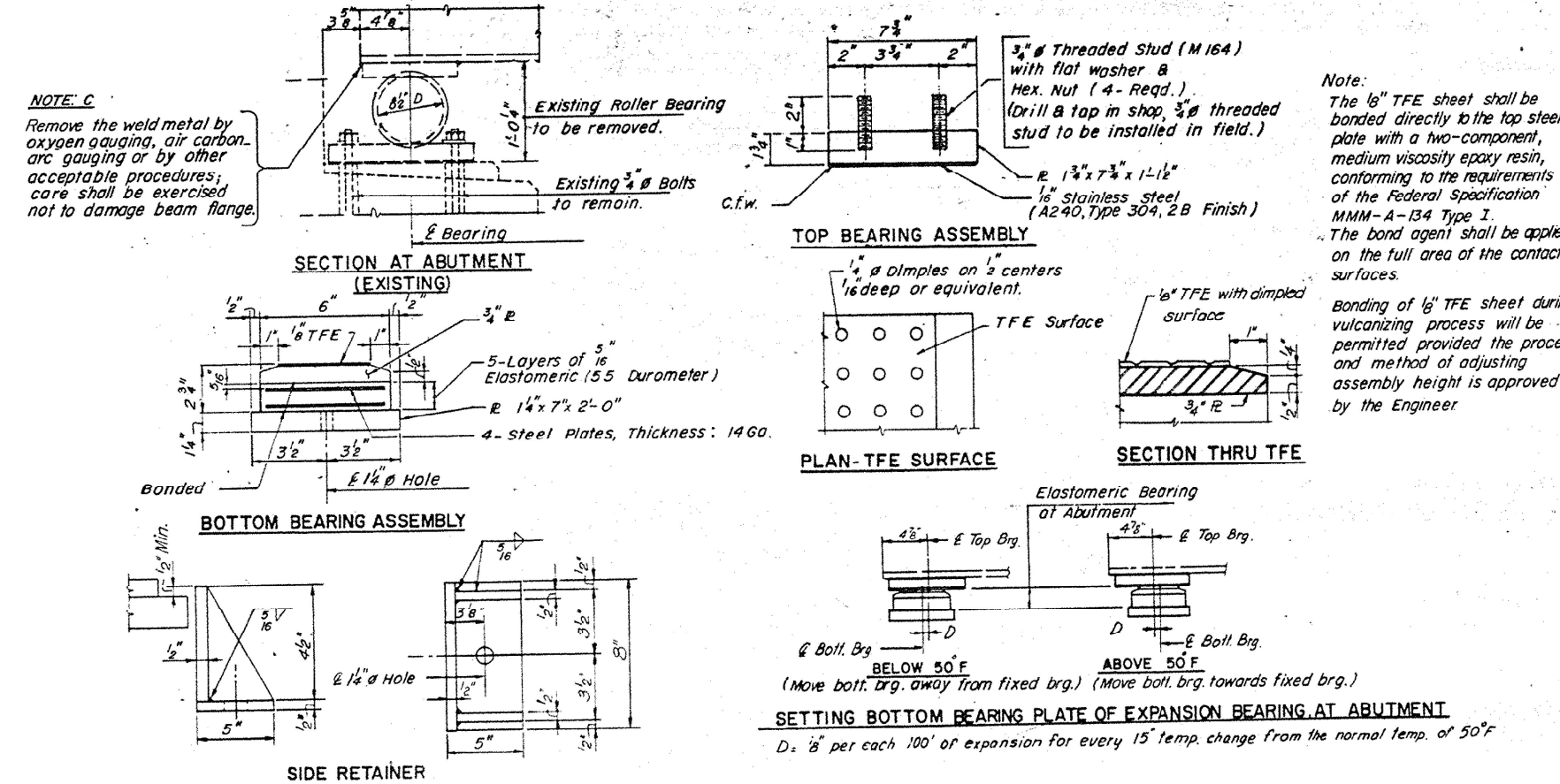
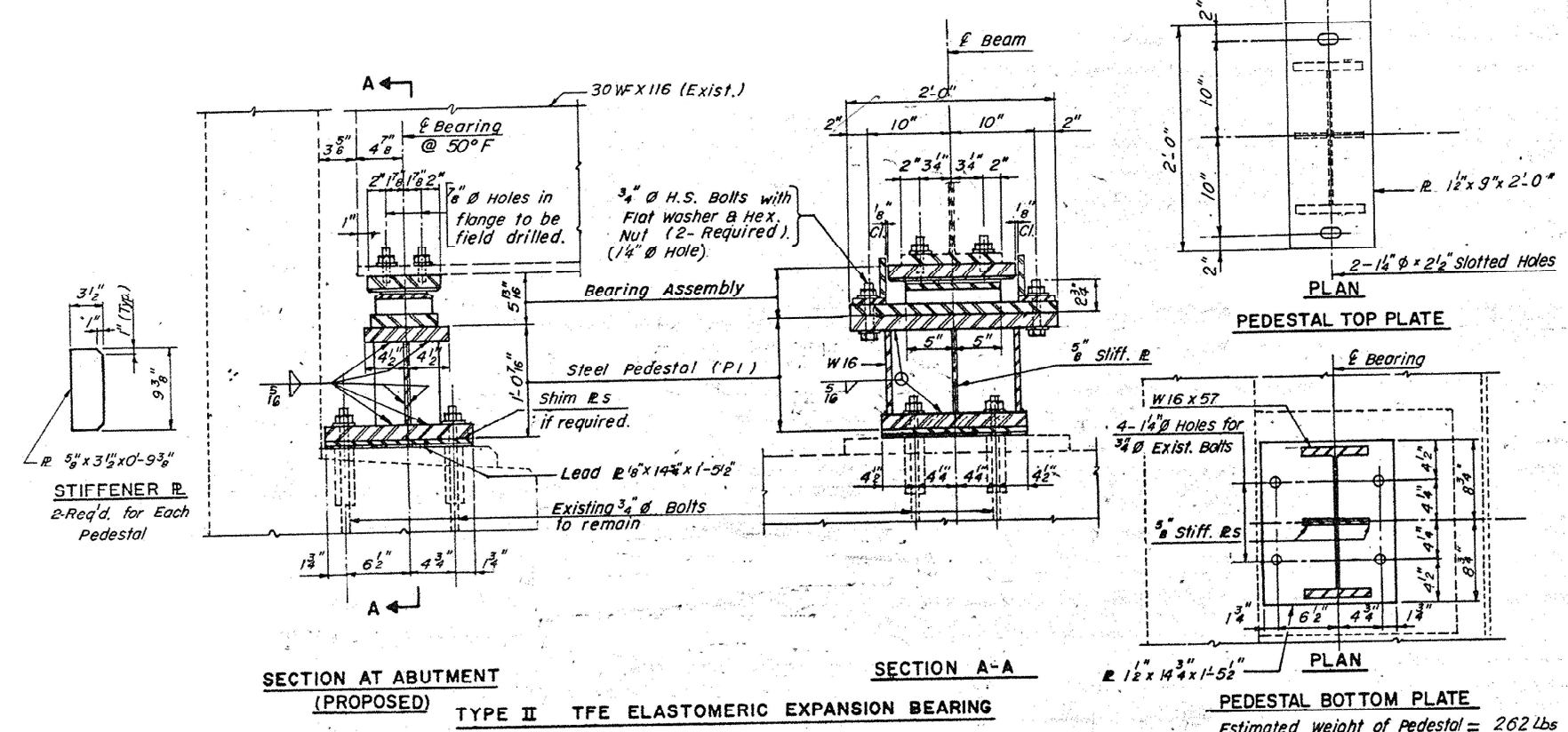
EXISTING STRUCTURAL STEEL
LOCATION 3: SN 016-0694 (17TH AVENUE)

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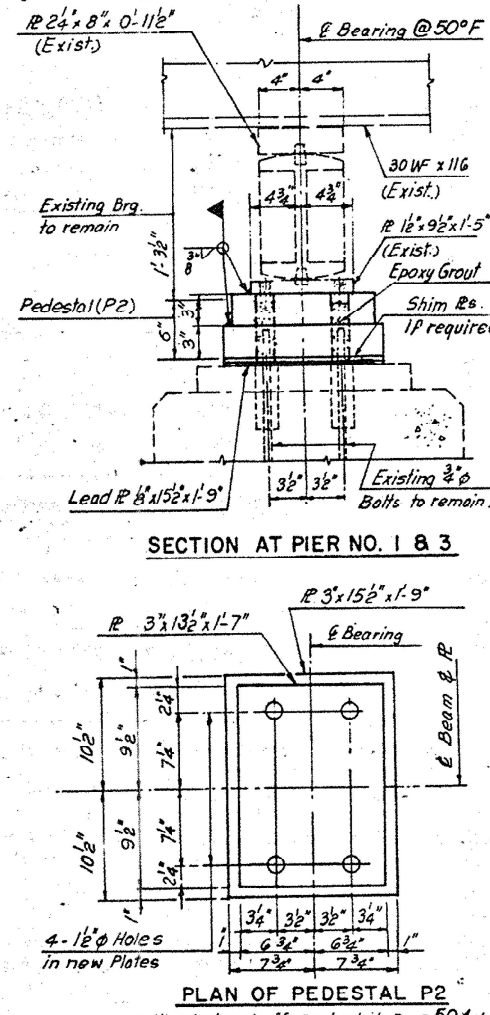
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290	2021-139-BP	COOK	46	19
		CONTRACT NO. 62P57		
ILLINOIS		FED. AID PROJECT		

ILLINOIS	FED. AID PROJECT
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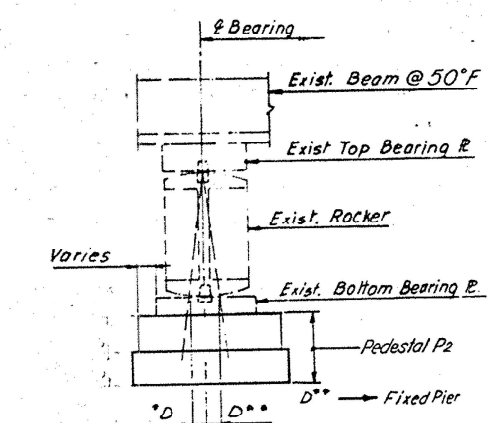
FOR INFORMATION ONLY



NOTE: Contractor may alter number and thickness of pedestal plates. Minimum thickness to be 1 1/2 inches. Engineer shall approve alternate plates and welds.



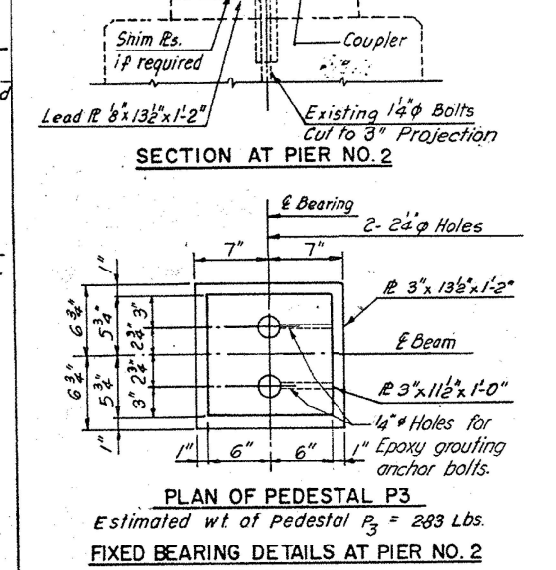
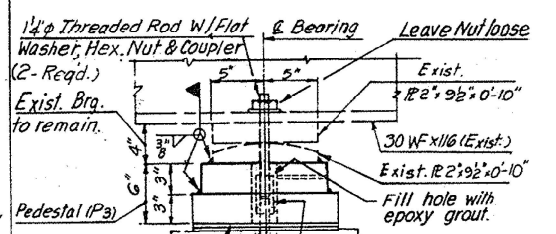
ROCKER BEARING DETAILS AT PIER NO. 1 & 3



*D = 1/8" / 100 FT. of exp. for every 15° below the normal temp. of 50°.

D* = 1/8" / 100 FT. of exp. for every 15° above the normal temp. of 50°.

SETTING BOTTOM BEARING PLATE OF ROCKER BEARING AT PIER NO. 1 & 3



- BEARING REPLACEMENT NOTES:**
- Q. TYPE II TFE ELASTOMERIC EXPANSION BEARINGS:**
- RAISE BRIDGE 7" ±
 - REMOVE EXISTING BEARING AND PLATE ON BOTTOM FLANGE AT ABUTMENT
 - INSTALL PEDESTAL
 - INSTALL ELASTOMERIC BEARING ON PEDESTAL
 - INSTALL 3/4" B THREADED BOLT TO A TIGHT FIT. INSTALL WASHERS AND NUTS.
- D. ROCKER BEARINGS:**
- RAISE BRIDGE 7" ±
 - INSTALL PEDESTAL IN ACCORDANCE WITH SETTING DIAGRAM AND GROUT HOLES AROUND ANCHOR BOLTS WITH EPOXY GROUT (COST OF GROUTING INCIDENTAL TO STRUCTURAL STEEL.)
 - WELD BOTTOM PLATE TO PEDESTAL
- C. FIXED BEARING:**
- REMOVE NUTS FROM ALL BEARINGS
 - RAISE BRIDGE 7" ±
 - REMOVE EXISTING BOTTOM BRG. PLATE
 - INSTALL COUPLER
 - INSTALL BUILT UP PLATES & EXIST. BOTTOM BRG. PLATE
 - INSTALL 1/2" x 4" THREADED ROD TO A TIGHT FIT
 - WELD BOTTOM BRG. PLATE TO PEDESTAL
 - EPOXY GROUT ANCHOR BOLTS AFTER LOWERING BRIDGE

- GENERAL NOTES:**
- BROKEN OR LOOSE BOLTS SHALL BE REPLACED TO THE SATISFACTION OF THE ENGINEER. COST INCIDENTAL
 - CONTRACTOR SHALL SUPPLY ADDITIONAL SHIM PLATES IF REQUIRED TO BRING DEVICES TO GRADE
 - COST OF ALL NEW MATERIAL INCLUDED IN STRUCTURAL STEEL. CUTTING AND RETHRADING ANCHOR BOLTS INCIDENTAL TO STRUCTURAL STEEL
 - LOCATION OF EXISTING BOLTS SHALL BE FIELD VERIFIED PRIOR TO FABRICATION OF PEDESTAL

USER NAME = dila	DESIGNED -	REVISED -
PLOT SCALE = 100,000' / in.	DRAWN -	REVISED -
PLOT DATE = 10/20/2021	CHECKED -	REVISED -
	DATE -	REVISED -

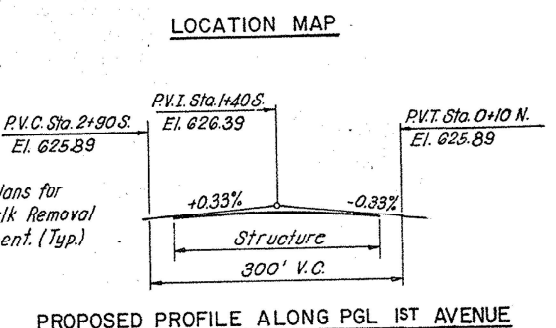
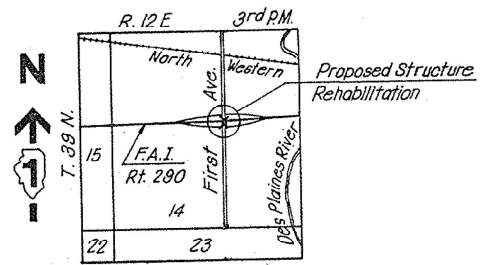
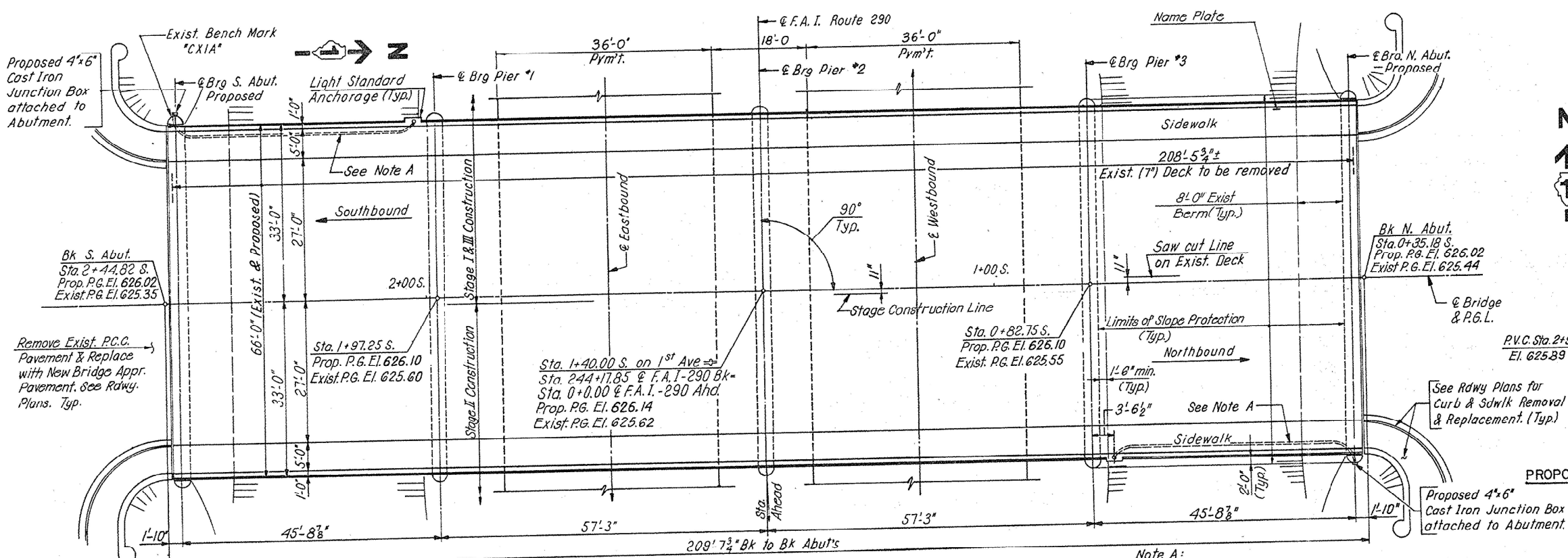
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING BEARING DETAILS
LOCATION 3: SN 016-0694 (17TH AVENUE)

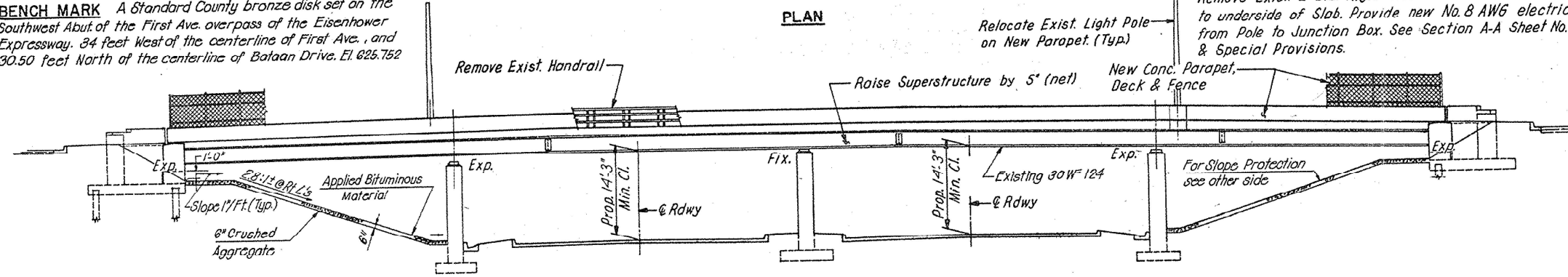
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-139-BP	COOK	46	20
CONTRACT NO. 62P57				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY



BENCH MARK A Standard County bronze disk set on the Southwest Abut. of the First Ave. overpass of the Eisenhower Expressway. 34 feet West of the centerline of First Ave., and 30.50 feet North of the centerline of Bataan Drive. El. 626.752



EXISTING STRUCTURE:
EXISTING BRIDGE NO. 016-0699 AT STATION 1+40.00 S. (1ST AVE.) WAS BUILT IN 1951 AS FA ROUTE 131. PROJECT U.I. 261 (11) SECTION- 062-3434. 2 H.F.T.. IT IS A 4-SPAN CONTINUOUS W BEAM BRIDGE WITH 7' CONCRETE DECK 66'-0" OUT TO OUT STRUCTURE. 209'-7 3/4" BACK TO BACK ABUTMENTS.

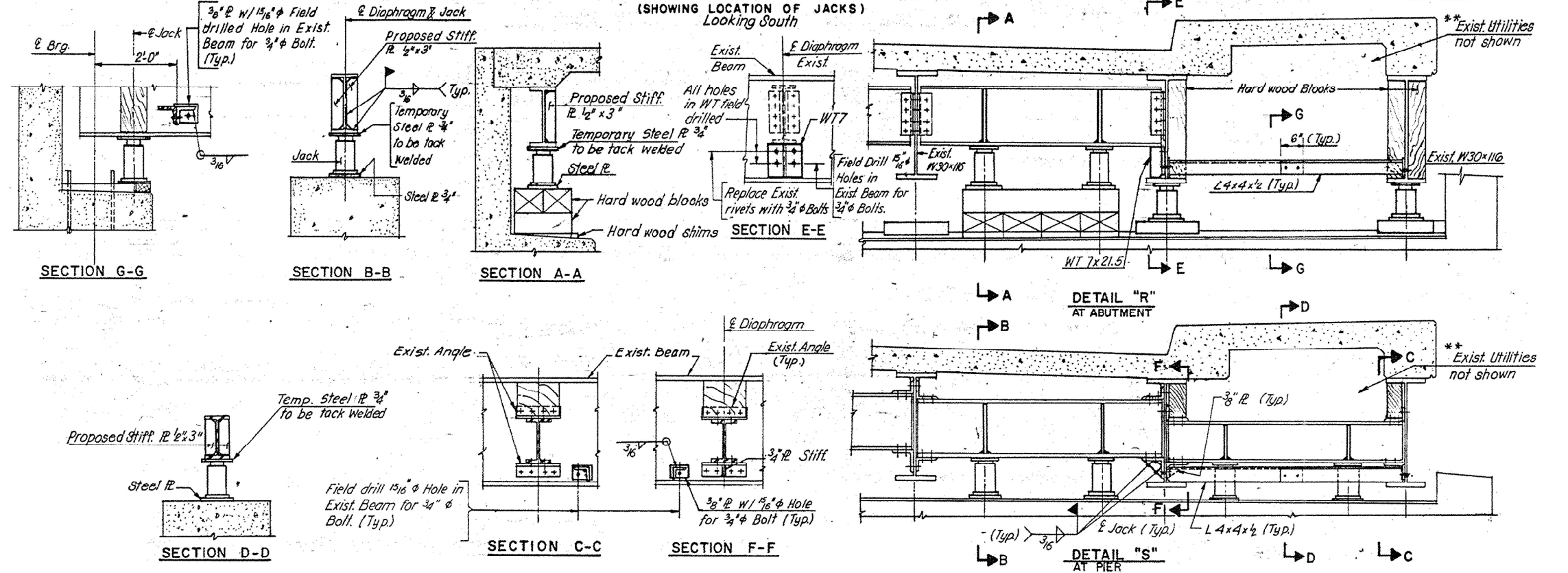
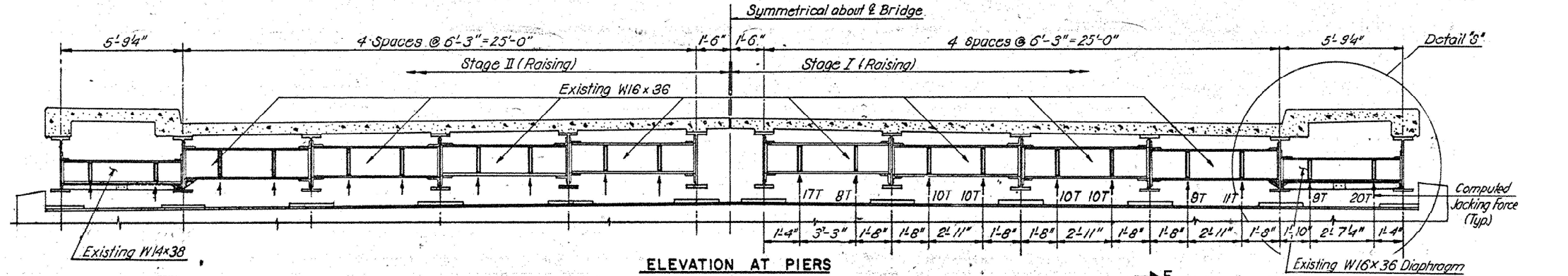
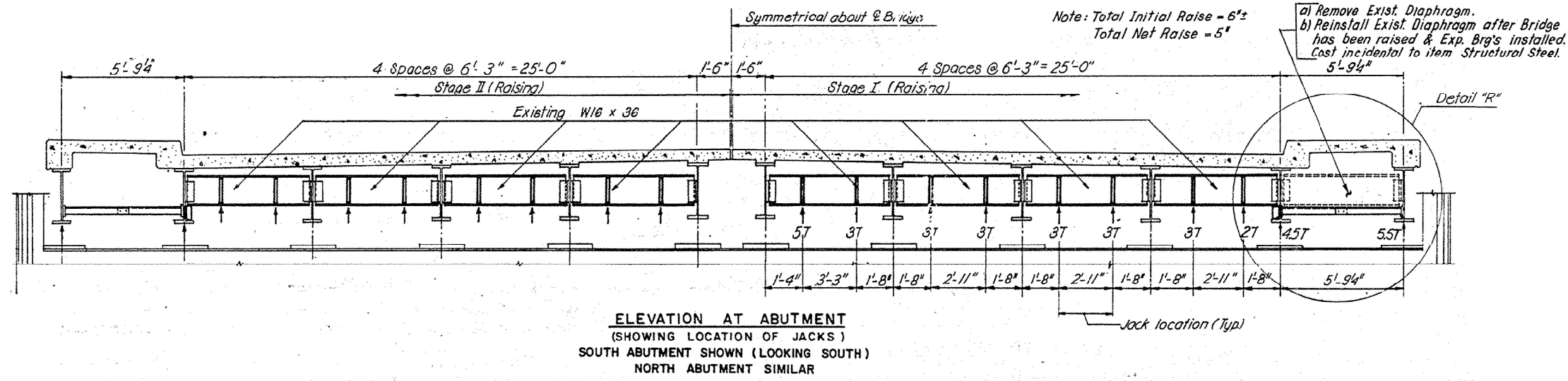
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PLOT DATE = 10/20/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION LOCATION 4: SN 016-0699 (1ST AVENUE)			
SCALE:	SHEET	OF	SHEETS
	STA.	TO	STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-139-BP	COOK	46	21
CONTRACT NO. 62P57				
ILLINOIS FED. AID PROJECT				

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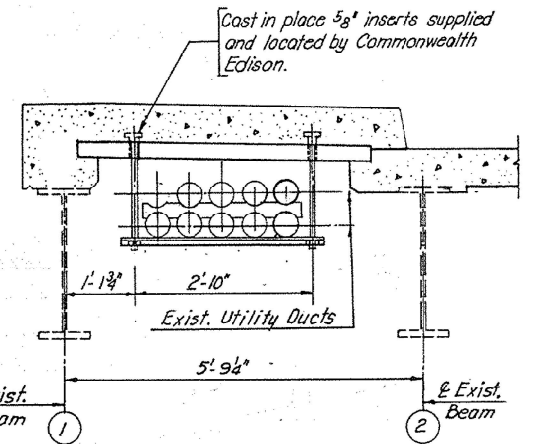
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	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

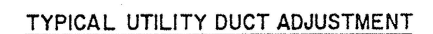
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EXISTING SUPER STRUCTURE DETAILS
LOCATION 4: SN 016-0699 (1ST AVENUE)

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-139-BP	COOK	46	22
CONTRACT NO. 62P57				
ILLINOIS FED. AID PROJECT				

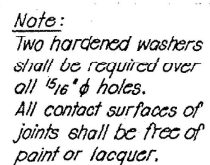


For information only
Conduit attachment by Comm. Edison Co.



The Contractor shall remove existing diaphragms D3 and replace with new D3-W10x33 diaphragms before raising bridge.

Commonwealth Edison will be responsible for support,
protection and reattachment of 4" ϕ Asbestos
Cement Conduits.



Remove exist. rivets & drill $\frac{15}{16}$ " ϕ holes in new angles to match exist. holes.

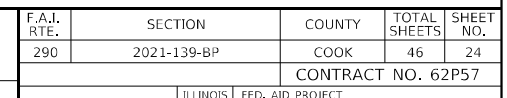
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EXISTING STRUCTURAL STEEL
LOCATION 4: SN 016-0699 (1ST AVENUE)

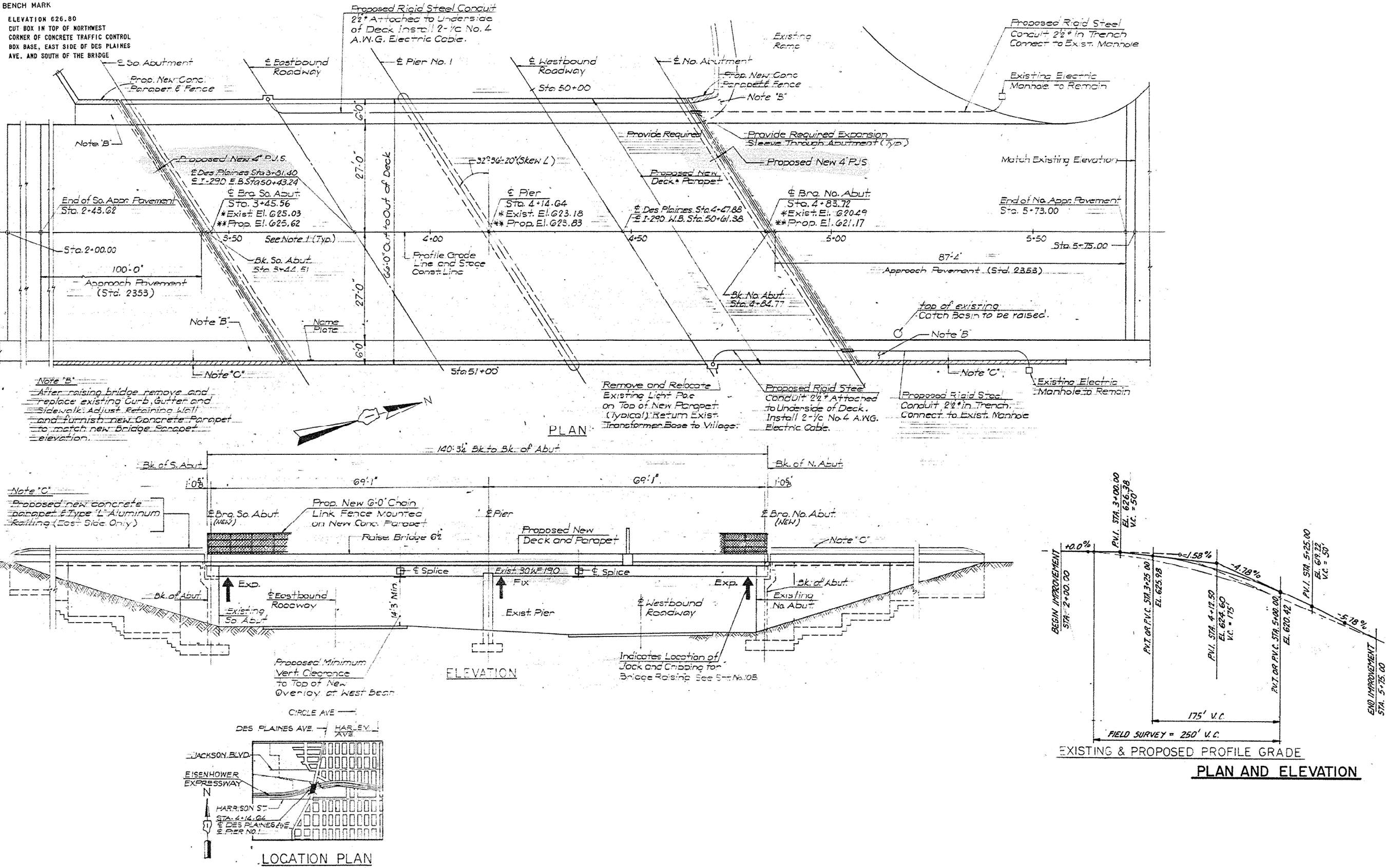
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-139-BP	COOK	46	23
		CONTRACT NO. 62P57		
ILLINOIS		FED. AID PROJECT		

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FOR INFORMATION ONLY



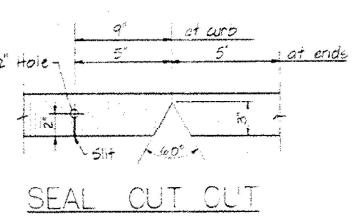
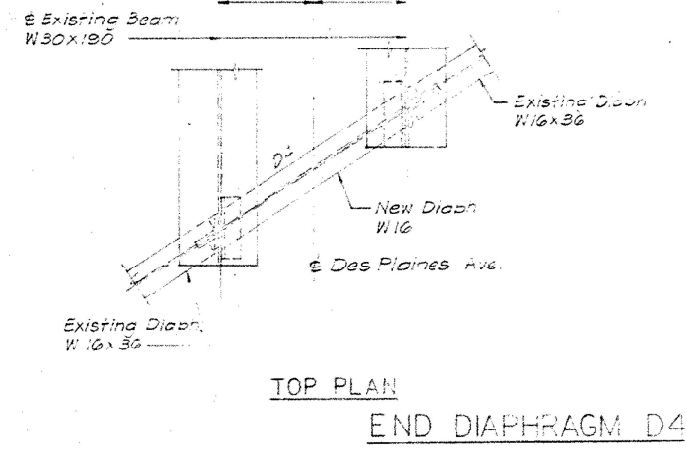
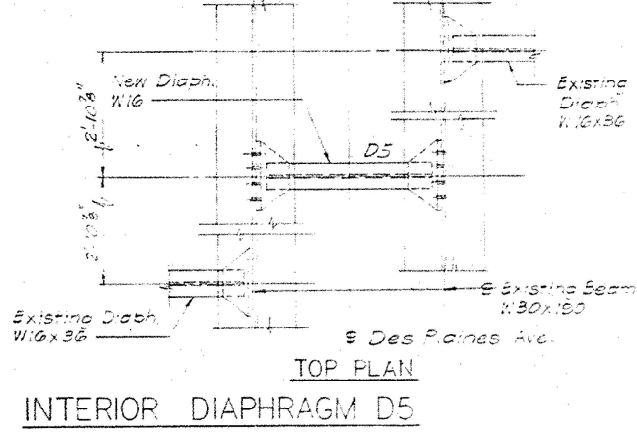
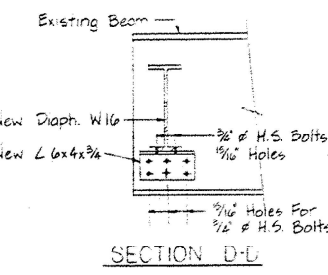
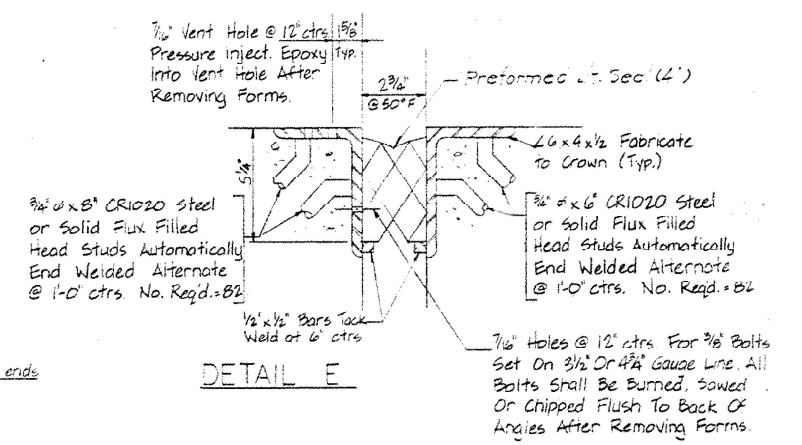
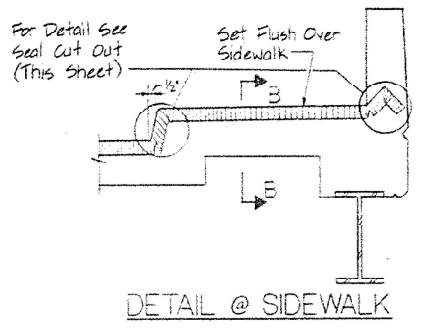
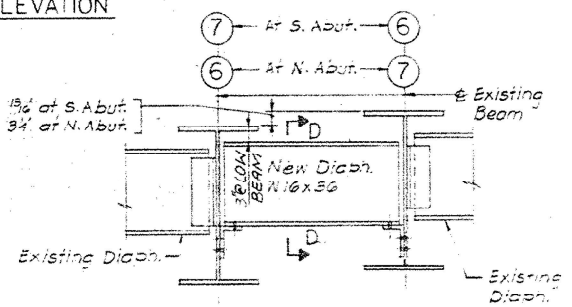
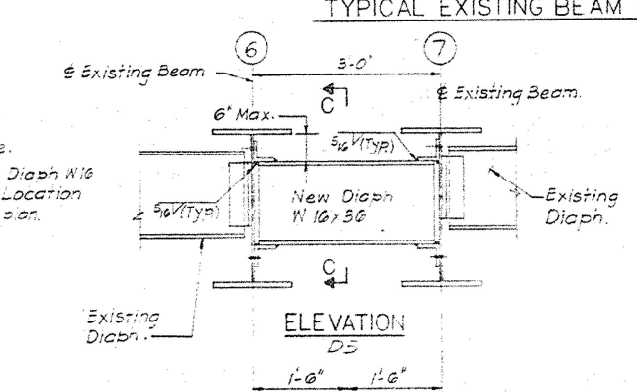
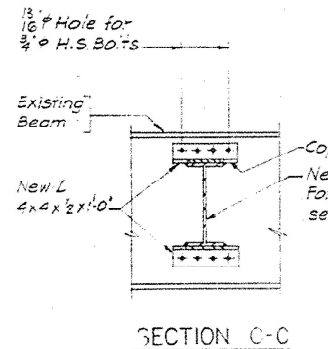
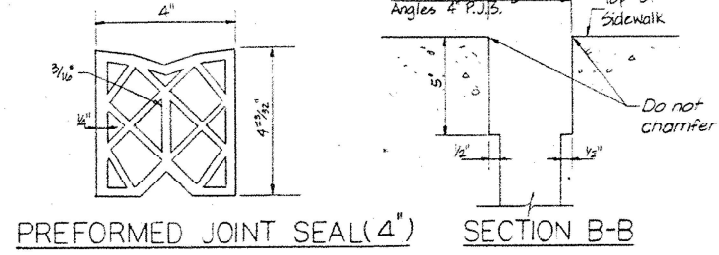
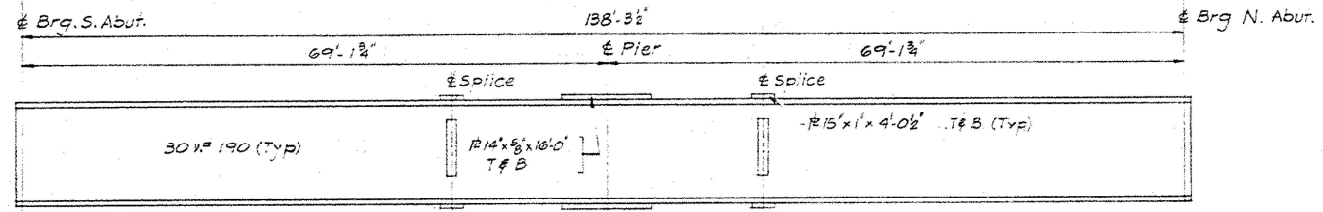
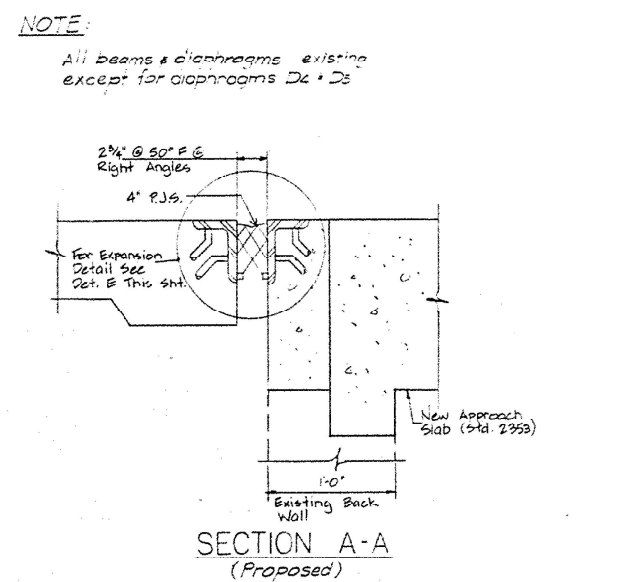
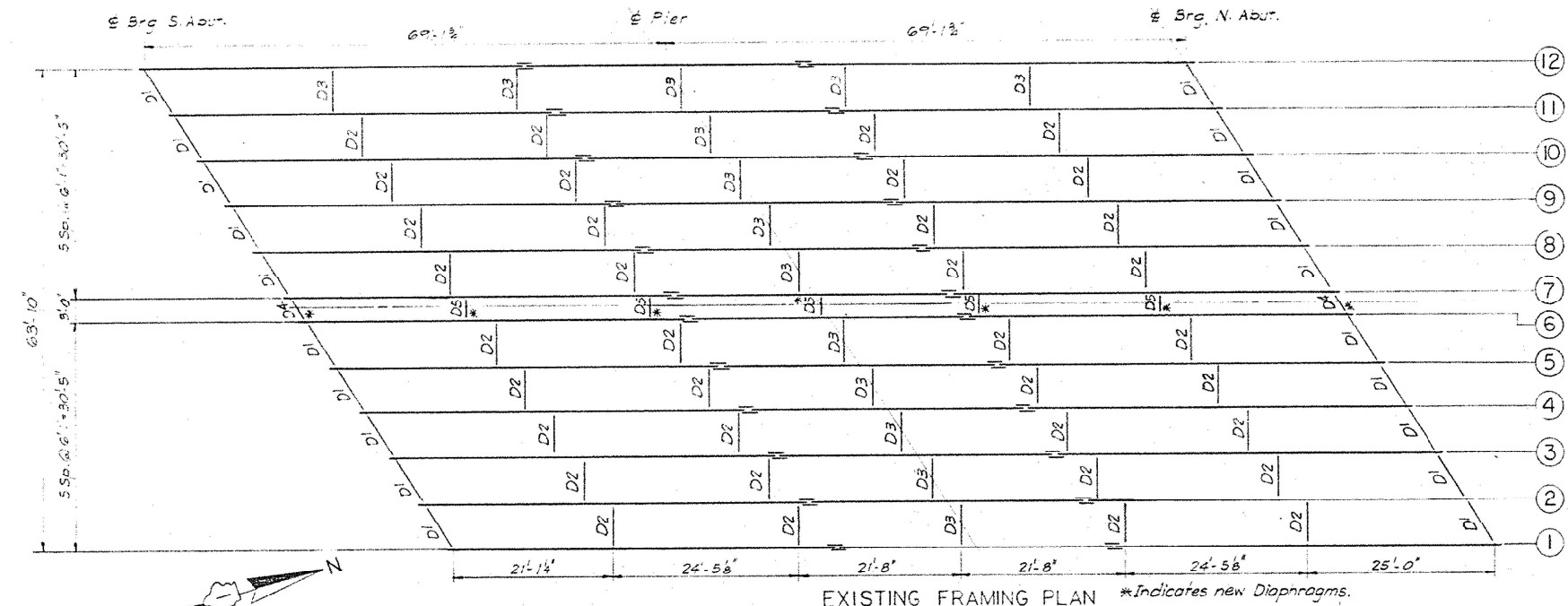
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PLOT DATE = 10/20/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION			
LOCATION 5: SN 016-0706 (DES PLAINES AVENUE)			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-139-BP	COOK	46	25
CONTRACT NO. 62P57				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY



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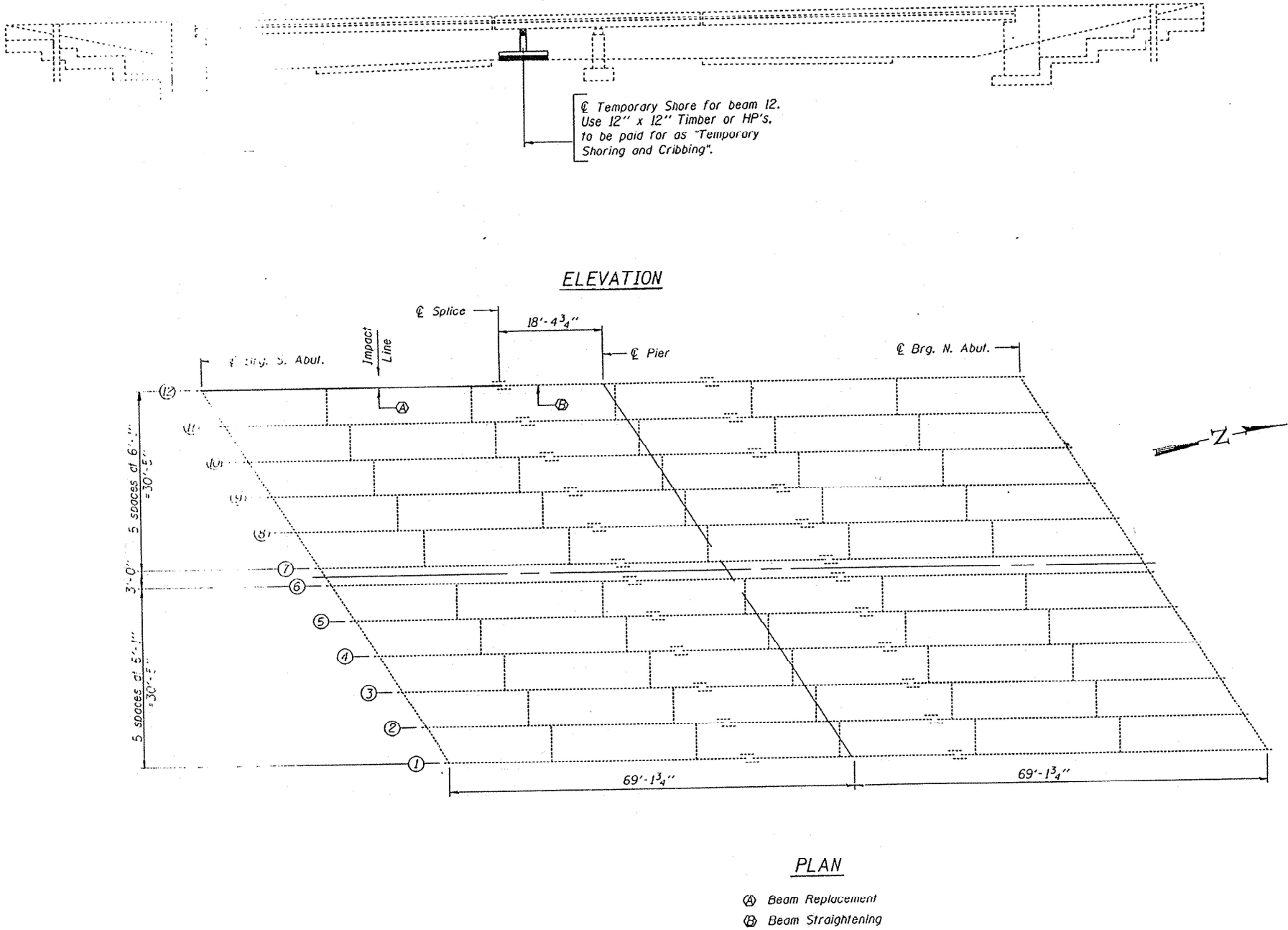
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PLOT DATE = 10/20/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING SUPERSTRUCTURE DETAILS			
LOCATION 5: SN 016-0706 (DES PLAINES AVENUE)			
SCALE:	SHEET	OF	SHEETS
	STA.		TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-139-BP	COOK	46	26
CONTRACT NO. 62P57				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

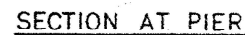
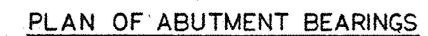
EXISTING SUPERSTRUCTURE REPAIR DETAILS			
LOCATION 5: SN 016-0706 (DES PLAINES AVENUE)			
SCALE:	SHEET	OF	SHEETS
	STA.		TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-139-BP	COOK	46	27
CONTRACT NO. 62P57				
ILLINOIS FED. AID PROJECT				

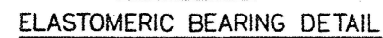
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-139-BP	COOK	46	28
		CONTRACT NO. 62P57		
ILLINOIS		FED. AID PROJECT		

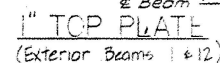
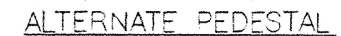
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PLAN AT PIER BEARING

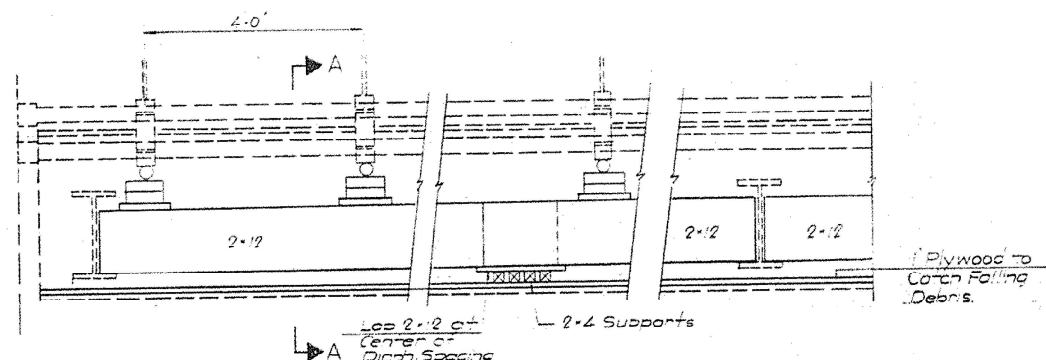


SIDE RETAINER

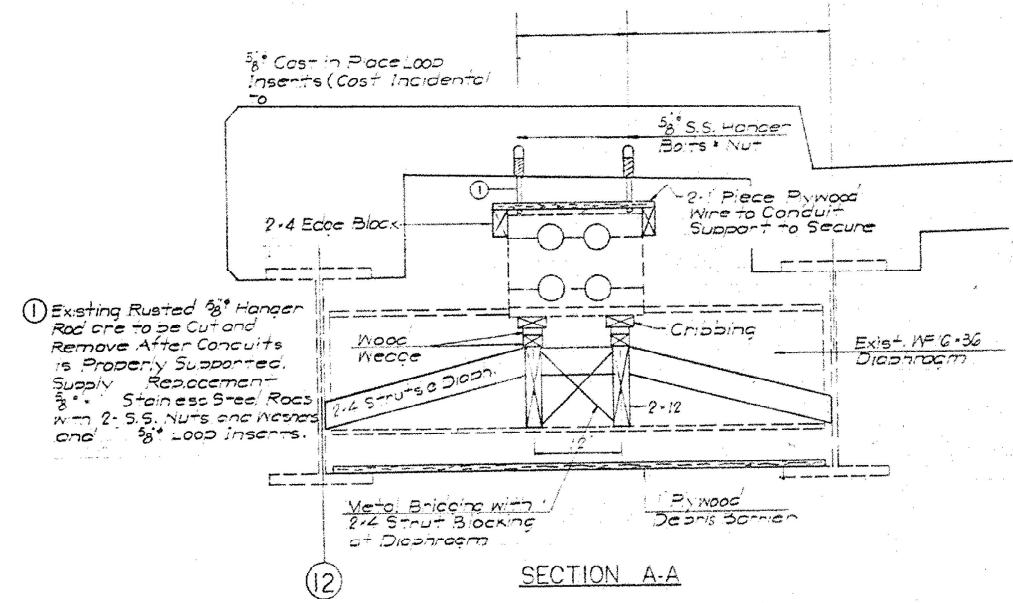


F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		CONTRACT NO. 62P57		
		ILLINOIS	FED. AID PROJECT	

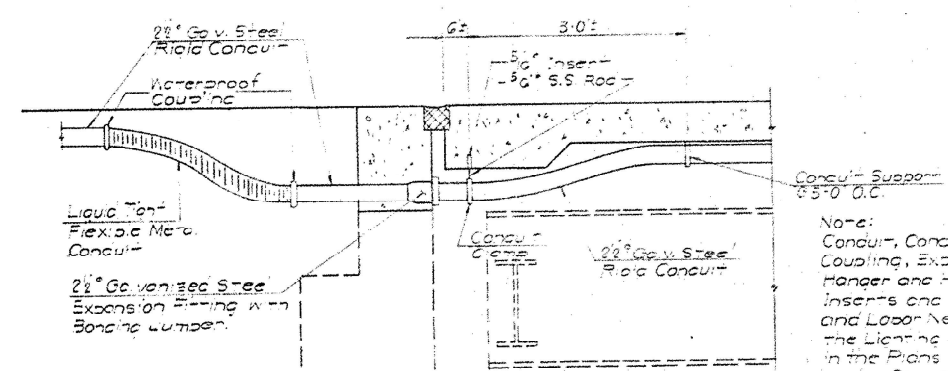
FOR INFORMATION ONLY



ELEVATION-TEMPORARY CONDUITS SUPPORTS

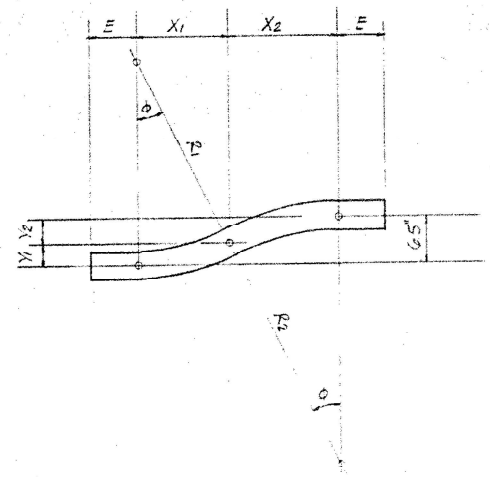


SECTION A-A



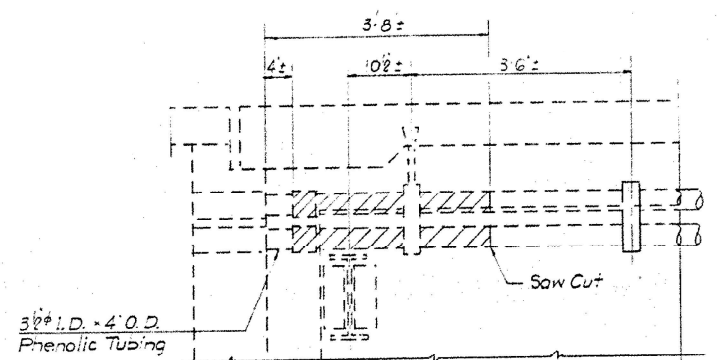
2 1/2" Ø CONDUIT AT BACKWALL DETAIL

NOTE:
Ownership of these conduits
has not been determined

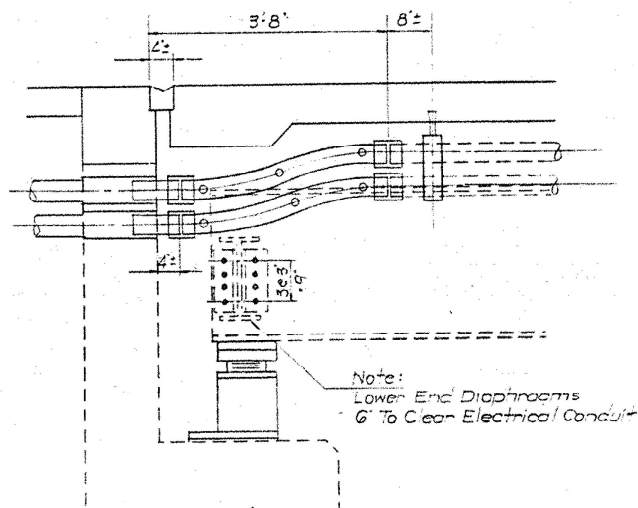


P.V.C. CONDUIT DETAIL

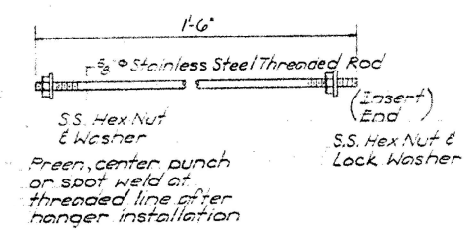
DUCT	R1	R2	X1	X2	Y1	Y2	Ø	E
Top Row	30"	36"	13.02"	15.62"	3.57"	2.97"	25.72"	5.68"
Bot. Row	36"	30"	15.62"	13.02"	2.97"	3.57"	25.72"	5.68"



EXISTING CONDUIT AT ABUTMENTS



CONDUIT MODIFICATION AT ABUTMENTS
Cost incidental to Removal of Existing Conc. Deck



REPLACEMENT HANGER RODS

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	DATE -	REVISED -

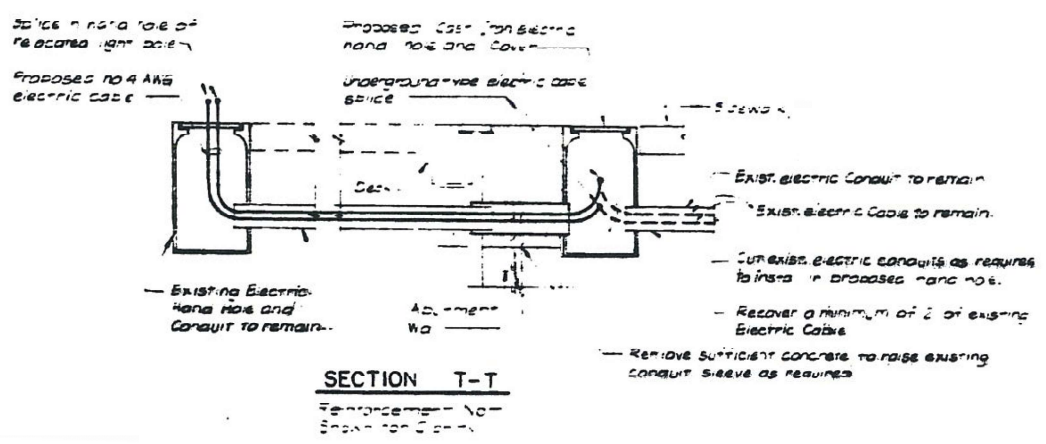
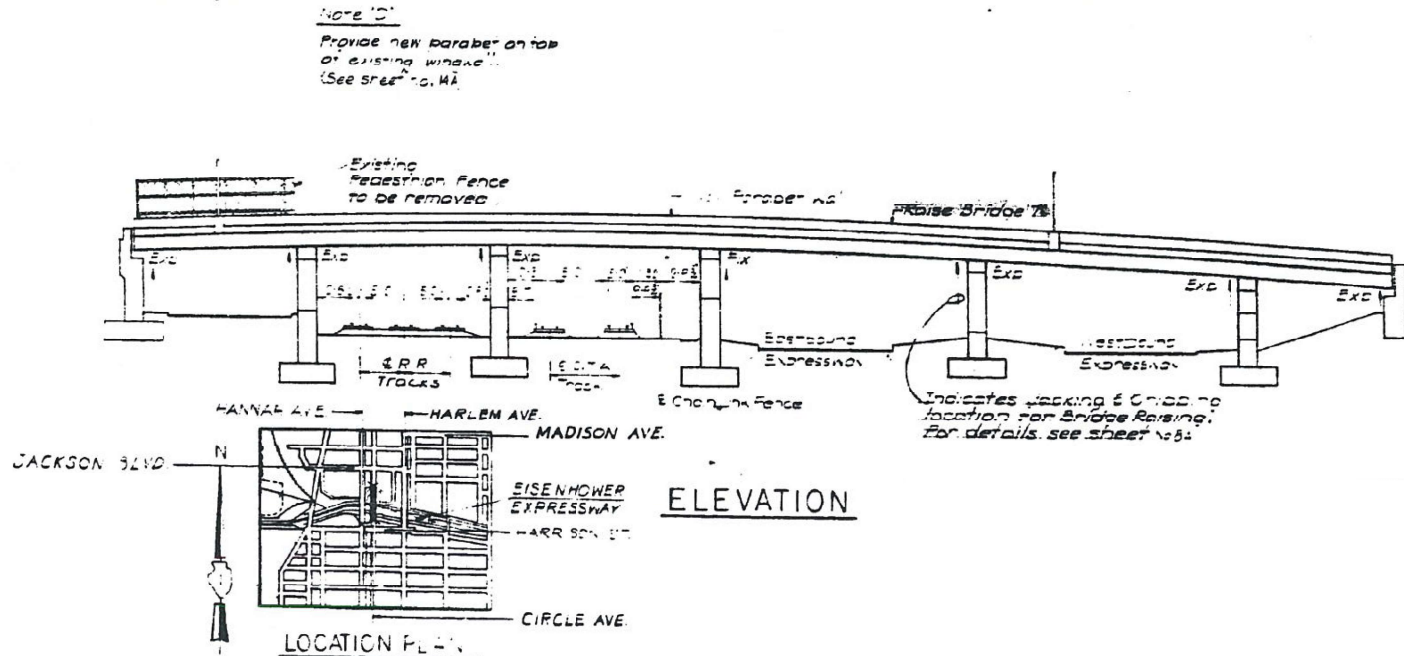
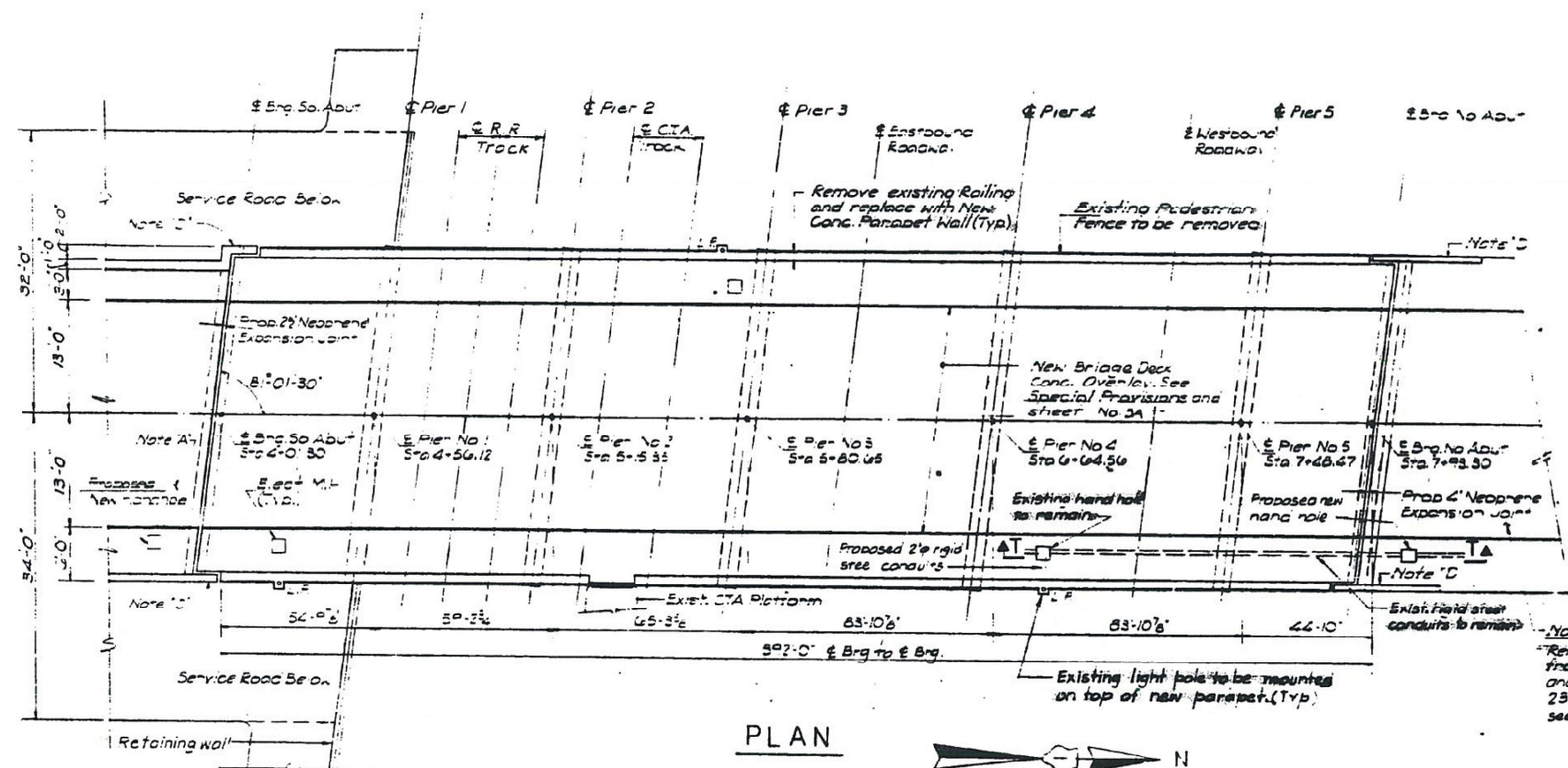
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING ATTACHED CONDUITS DETAILS
LOCATION 5: SN 016-0706 (DES PLAINES AVENUE)

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-139-BP	COOK	46	30
CONTRACT NO. 62P57				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY



USER NAME	= dila	DESIGNED	-	REVISED	-
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PLOT DATE	= 10/20/2021				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
LOCATION 6: SN 016-0995 (CIRCLE AVENUE)

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-139-BP	COOK	46	31
CONTRACT NO. 62P57				
ILLINOIS FED. AID PROJECT				



 Beam Label
 Beam End Repair Type
 Diaphragm Type



F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-139-BP	COOK	46	32
		CONTRACT NO. 62P57		
		ILLINOIS	FED. AID PROJECT	

FOR INFORMATION ONLY

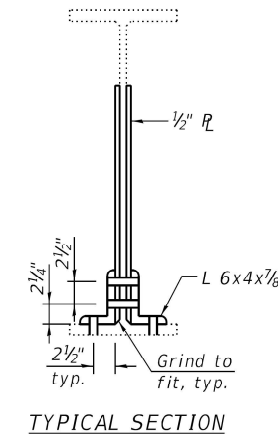
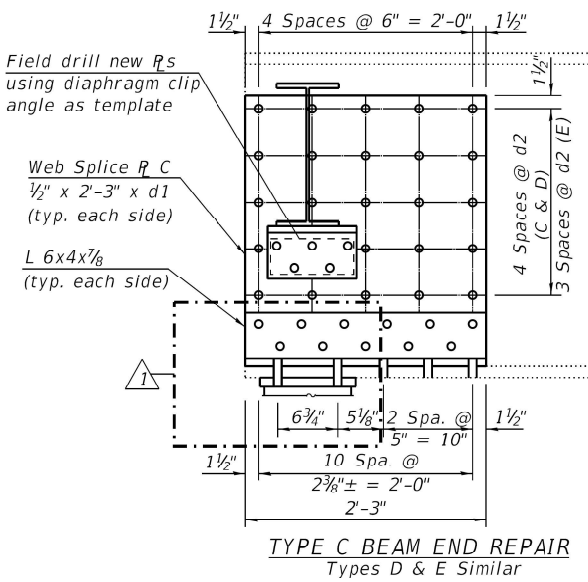
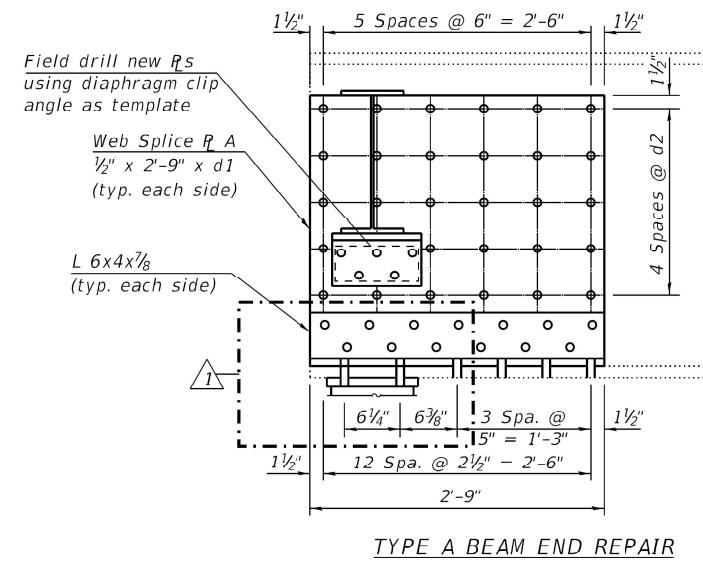
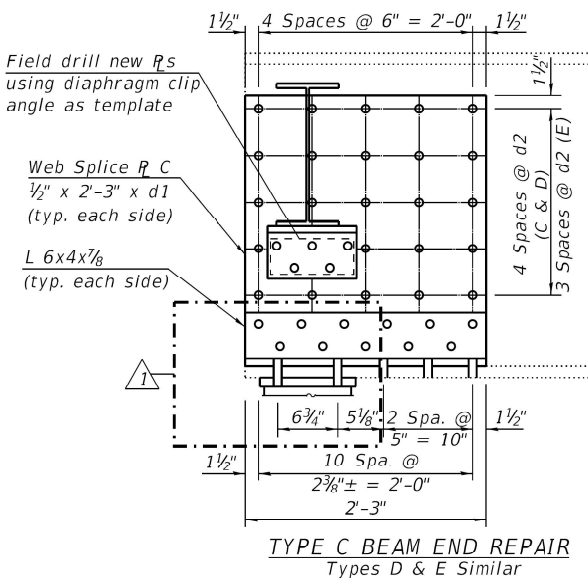
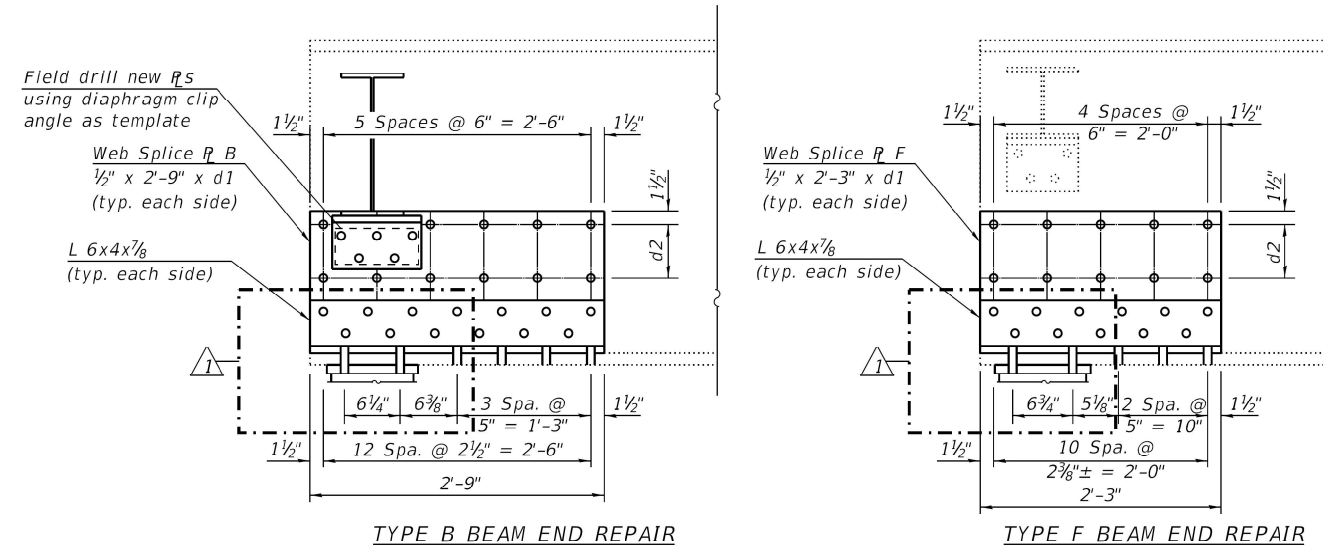
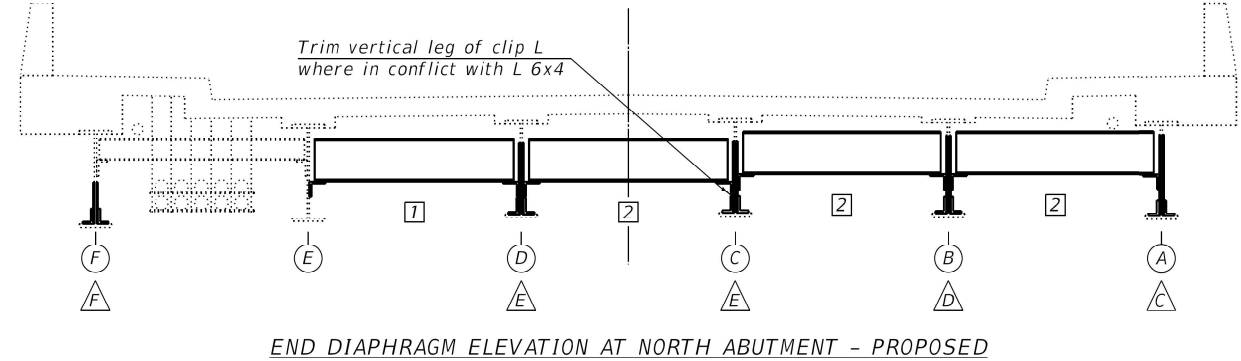
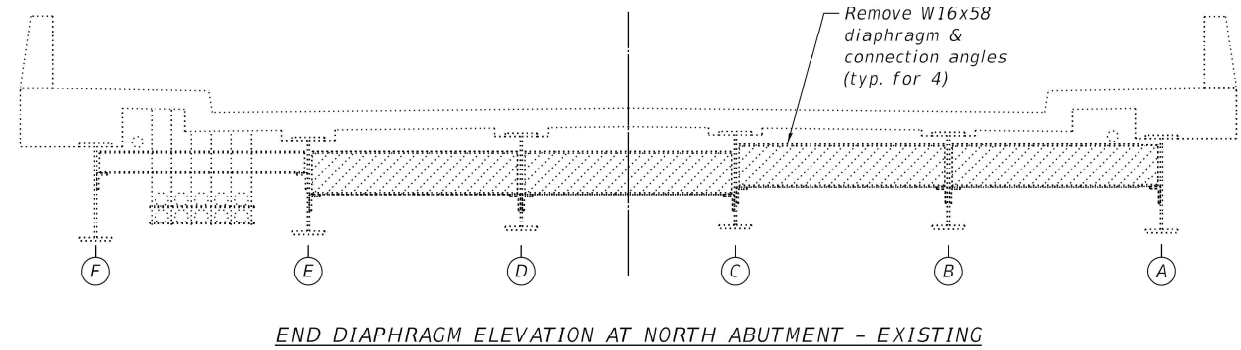
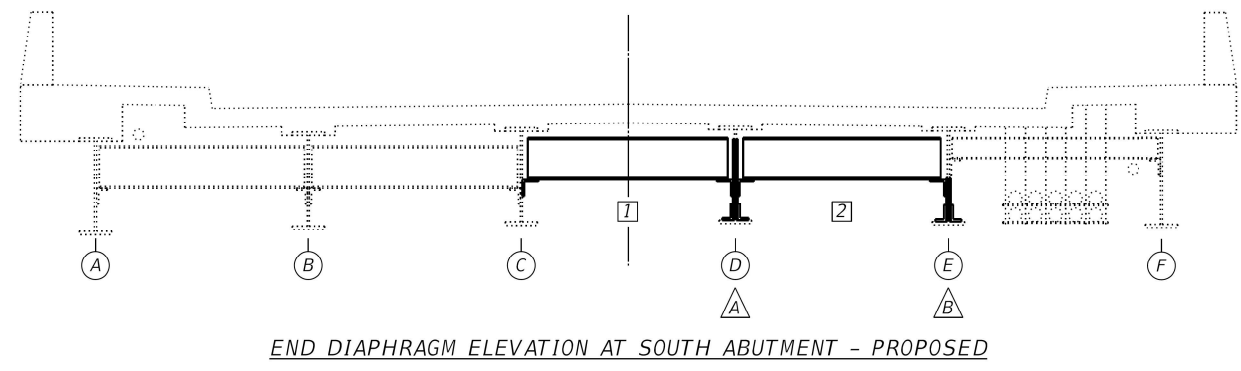
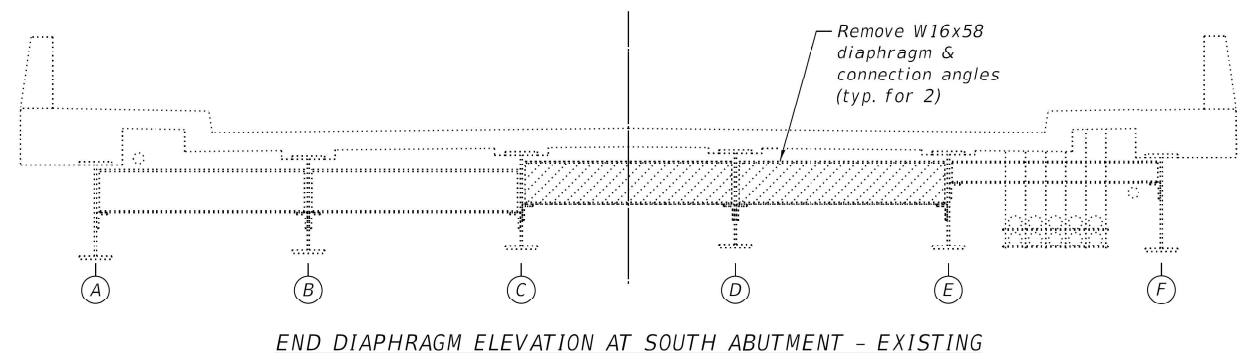


TABLE 1 - BEAM END REPAIRS

Beam End Repair Type	d1	d2	Quantity
A	2'-6 $\frac{1}{2}$ "	5 $\frac{1}{4}$ "	1
B	1'-4"	6"	1
C	2'-6 $\frac{1}{2}$ "	5 $\frac{1}{4}$ "	1
D	2'-5 $\frac{1}{4}$ "	5"	1
E	2'-2 $\frac{3}{4}$ "	5 $\frac{3}{4}$ "	2
F	1'-4"	6"	1

LEGEND

- (A) Beam Label
- (A) Beam End Repair Type
- [1] Diaphragm Type



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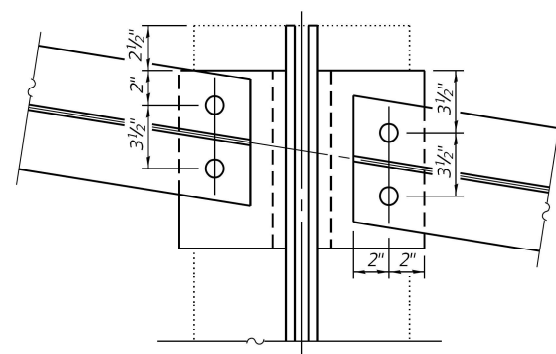
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURAL REPAIR DETAILS I
LOCATION 6: SN 016-0995 (CIRCLE AVENUE)

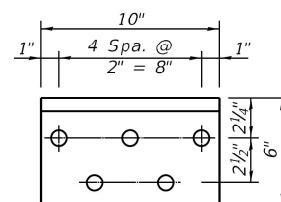
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-139-BP	COOK	46	33
CONTRACT NO. 62P57				
ILLINOIS FED. AID PROJECT				

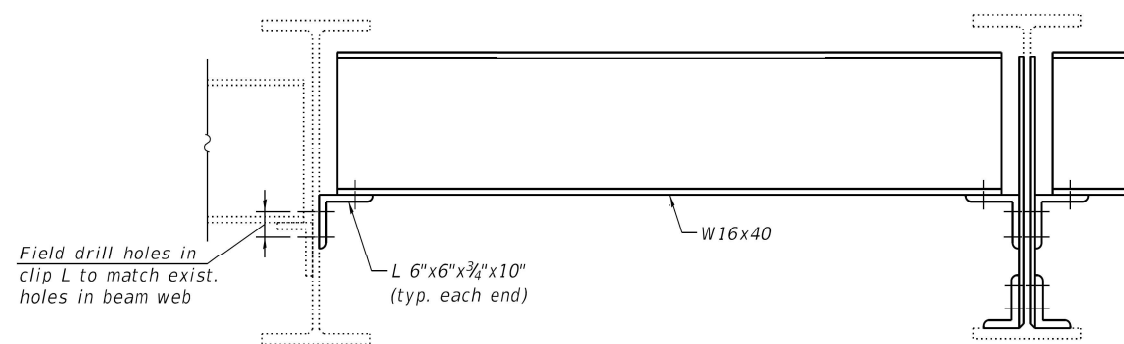
<i>Diaphragm Type</i>	<i>Size</i>	<i>Length</i>	<i>Quantity</i>
1	W16x40	6'-3 $\frac{5}{8}$ "	2
2	W16x40	6'-3 $\frac{5}{8}$ "	4



TYPICAL DIAPHRAGM PLAN



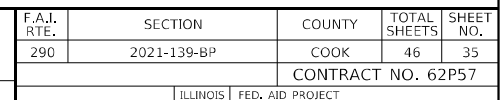
CLIP ANGLE DETAILS
Typ. except field drill holes in
offset clip angles at Beam C



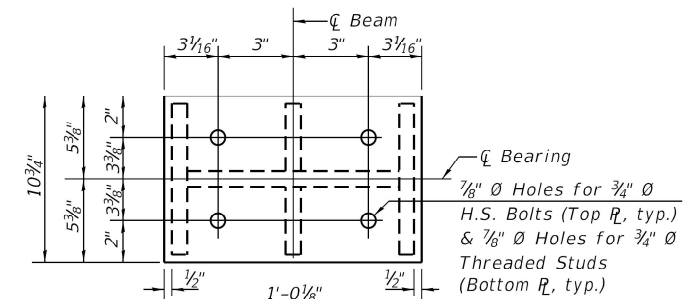
TYPE 1 DIAPHRAGM
Type 2 Similar

Field drill $1\frac{1}{2}$ " $\varnothing$ holes in
new R's and L's to match exist.

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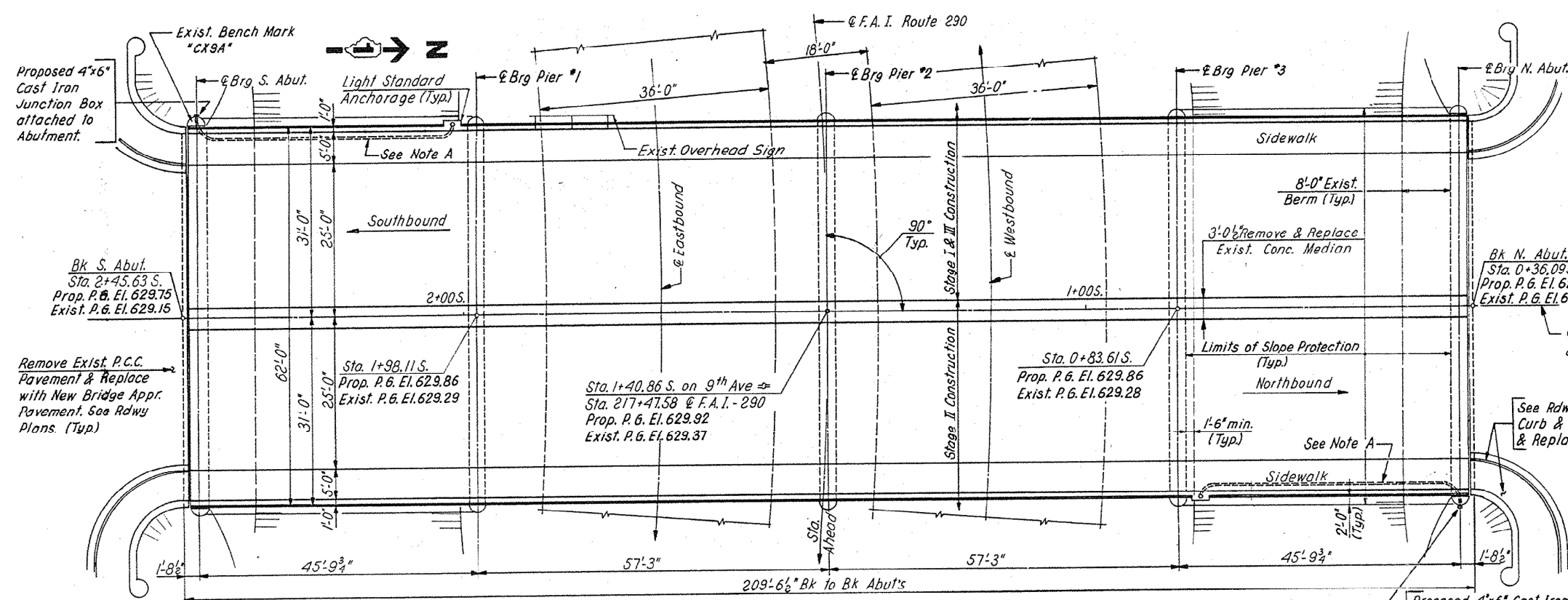


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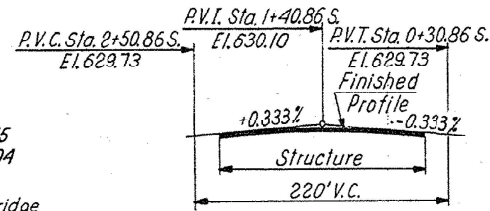


ILLINOIS	FED. AID PROJECT
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FOR INFORMATION ONLY



BENCH MARK A standard Cook County bronze disk set on the Southwest Pier of the overpass. 32 feet West of the centerline of 9th Ave., and 29.50 feet North of the centerline of Bataan Drive. El. 629.630

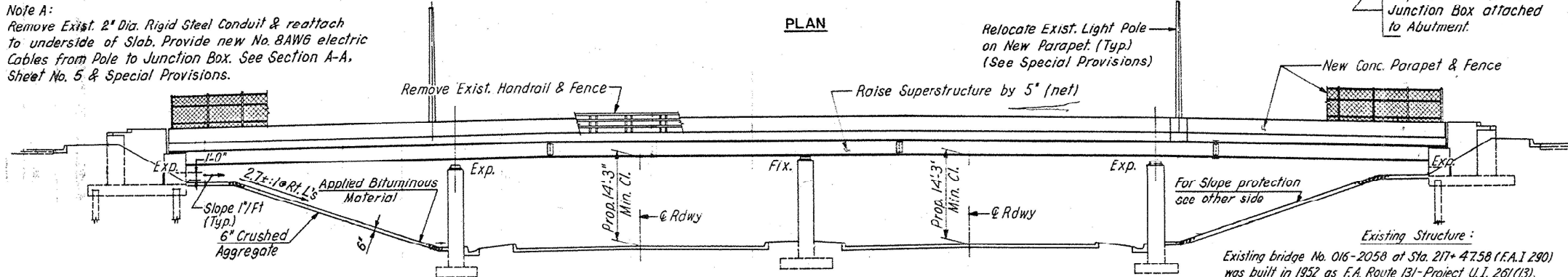


PROPOSED PROFILE ALONG PGL 9TH AVENUE

GENERAL NOTES

- THE BASIC LEAD SILICO CHROMATE PAINT SYSTEM SHALL BE USED FOR SHOP AND FIELD PAINTING OF NEW STRUCTURAL STEEL.
- SEE SPECIAL PROVISIONS FOR CLEANING AND PAINTING OF EXISTING STEEL BRIDGE.
- FIELD WELDING OF CONSTRUCTION ACCESSORIES WILL NOT BE PERMITTED TO THE BOTTOM FLANGE OF BEAMS OR GIRDERS NOR TO THE TOP FLANGE FOR A DISTANCE EQUAL TO ONE-FOURTH THE SPAN LENGTH EACH WAY FROM THE PIER SUPPORTS. FIELD WELDING IN OTHER AREAS WILL BE PERMITTED ONLY WHEN APPROVED BY THE ENGINEER.
- PROTECTIVE COAT SHALL BE APPLIED TO NEWLY CONSTRUCTED SIDEWALKS AND PARAPETS ONLY.
- PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING STRUCTURE HAVE BEEN TAKEN FROM EXISTING PLANS AND ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY SUCH DIMENSIONS AND DETAILS IN THE FIELD 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 THE SCOPE OF THE WORK, HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.
- EXPANSION BOLTS SHALL CONSIST OF APPROVED EXPANSION ANCHORS, PROVIDING MINIMUM CERTIFIED PROOF LOAD = 4,080 LBS., AND 3/4" X 12" HOOKED BOLTS.
- FASTENERS SHALL BE HIGH STRENGTH BOLTS, BOLTS TO BE 5/4" Ø. OPEN HOLES TO BE 15/16" Ø UNLESS OTHERWISE NOTED.
- REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M-31 OR M-53 GRADE 60.
- ALL EXISTING UTILITY CONDUITS AND WIRING SHALL BE ADJUSTED BY THEIR RESPECTIVE OWNERS BEFORE RAISING BRIDGE.
- CALCULATED WEIGHT OF STRUCTURAL STEEL = 27,350 LBS.

Note A:
Remove Exist. 2" Dia. Rigid Steel Conduit & reattach to underside of Slab. Provide new No. 8AW6 electric Cables from Pole to Junction Box. See Section A-A, Sheet No. 5 & Special Provisions.



Existing Structure:
Existing bridge No. 016-2058 at Sta. 217+47.58 (F.A.I. 290) was built in 1952 as F.A. Route 131-Project U.I. 261(13), Section 062-3435-1-M.F.T.
It is a 4-Span Continuous W Beam Bridge with 7" Concrete Deck, 62'-0" out to out Structure, 209'-6 1/2" Bk. to Bk. Abutments.

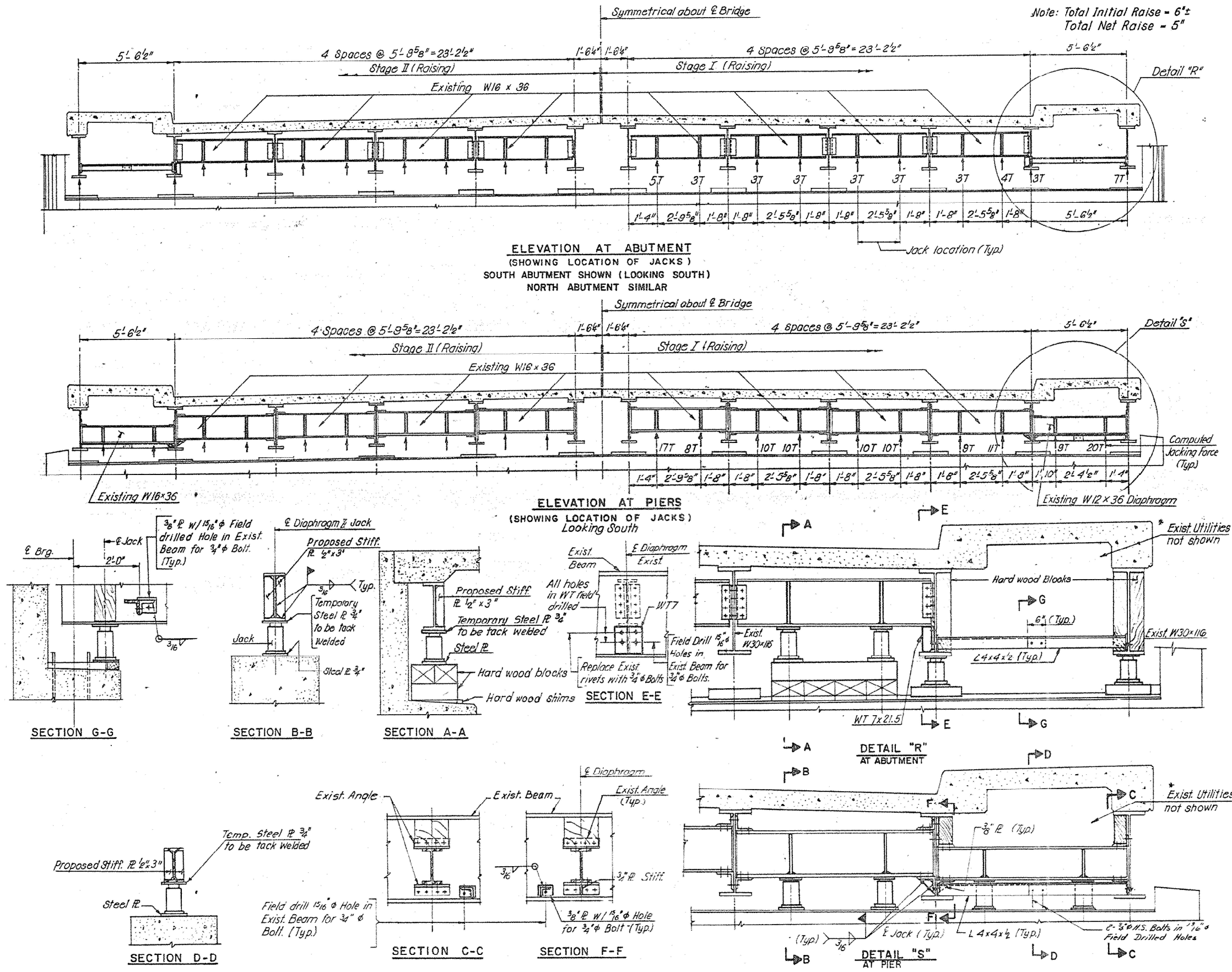
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
LOCATION 7: SN 016-2058 (9TH AVENUE)

USER NAME = dila	DESIGNED -	REVISED -
PLOT SCALE = 100,000' / in.	DRAWN -	REVISED -
PLOT DATE = 10/20/2021	CHECKED -	REVISED -
	DATE -	REVISED -

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-139-BP	COOK	46	37
CONTRACT NO. 62P57				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY



USER NAME = dila	DESIGNED -	REVISED -
PLOT SCALE = 100,000' / in.	DRAWN -	REVISED -
PLOT DATE = 10/20/2021	CHECKED -	REVISED -
	DATE -	REVISED -

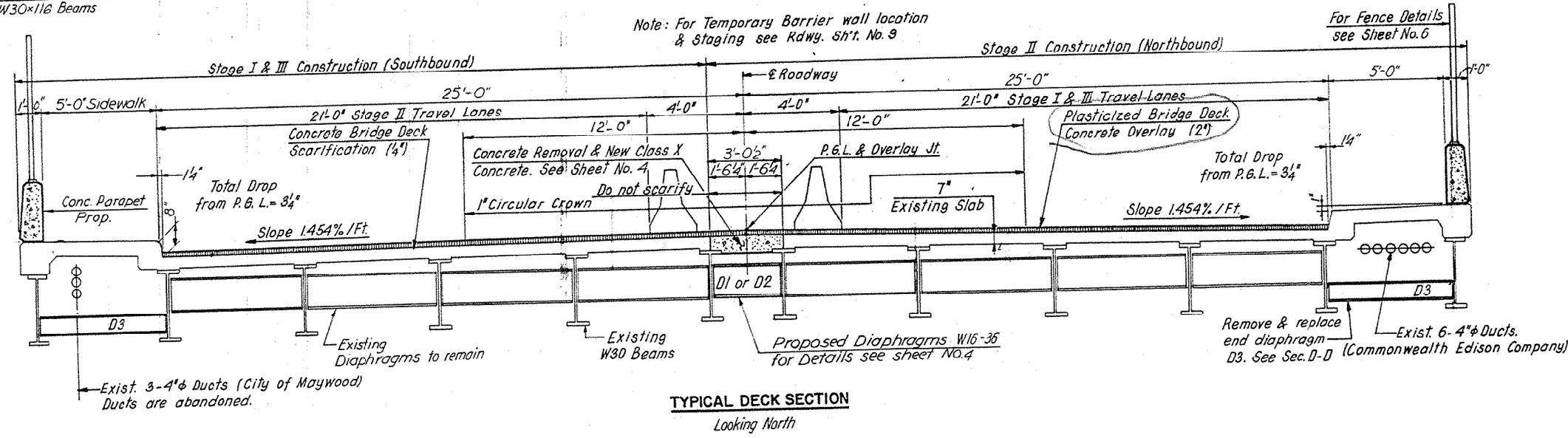
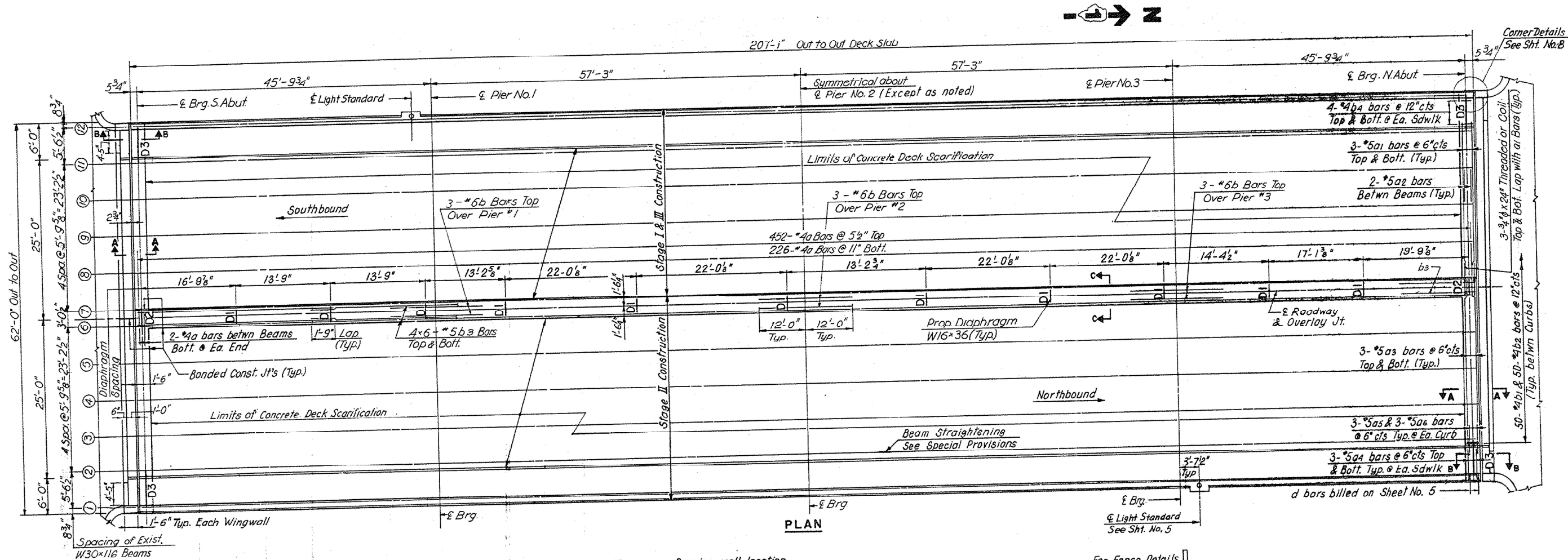
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.

EXISTING SUPERSTRUCTURE DETAILS
LOCATION 7: SN 016-2058 (9TH AVENUE)

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-139-BP	COOK	46	38
CONTRACT NO. 62P57				
ILLINOIS FED. AID PROJECT				

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TYPICAL DECK SECTION
Looking North

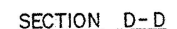
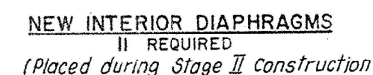
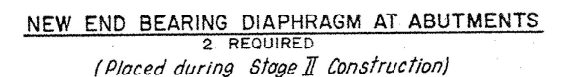
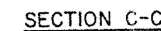
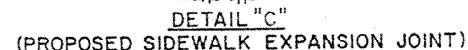
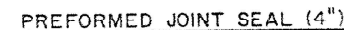
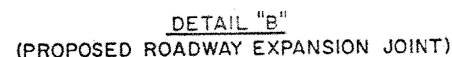
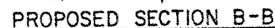
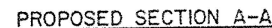
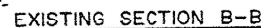
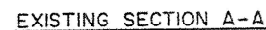
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PLOT SCALE = 100,000' / in.	DRAWN -	REVISED -
PLOT DATE = 10/20/2021	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING SUPERSTRUCTURE CROSS SECTION DETAILS			
LOCATION 7: SN 016-2058 (9TH AVENUE)			
SCALE:	SHEET	OF	SHEETS
	STA.		TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-139-BP	COOK	46	39
CONTRACT NO. 62P57				
ILLINOIS FED. AID PROJECT				

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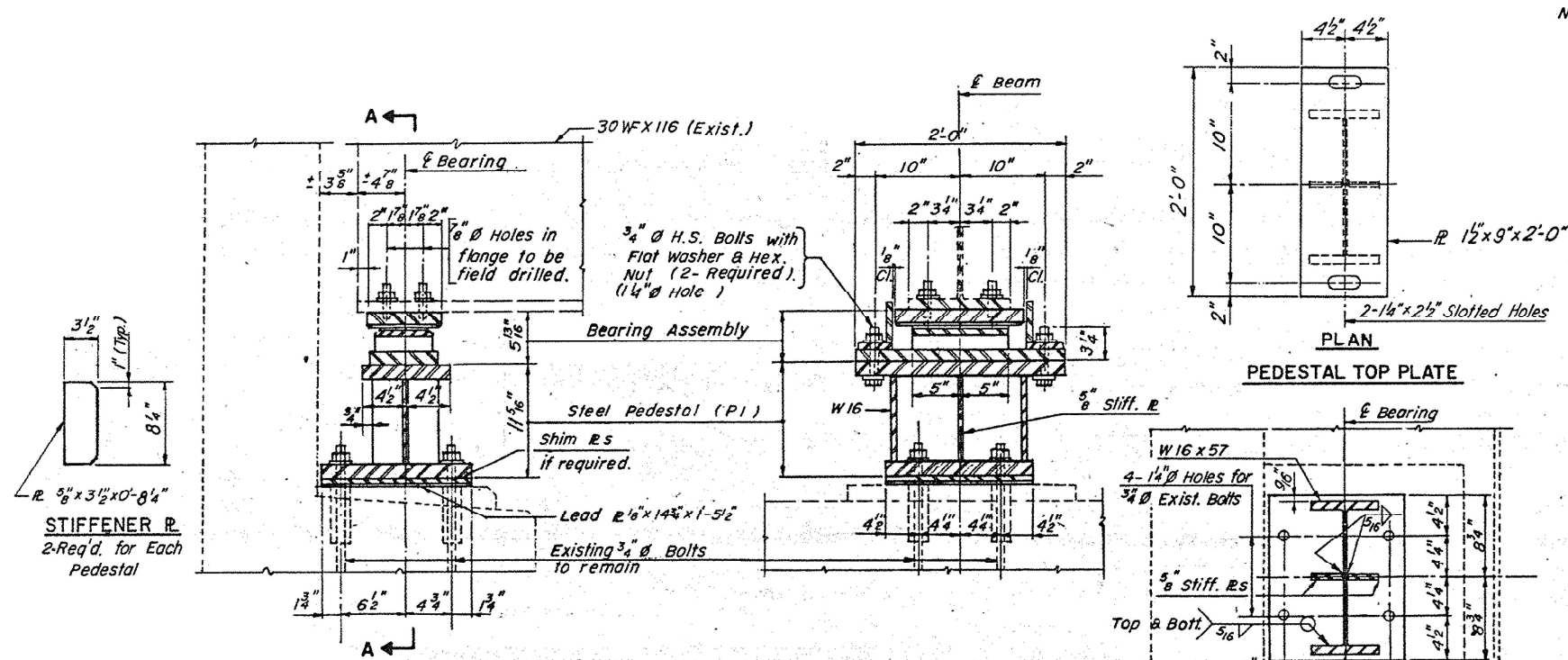


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

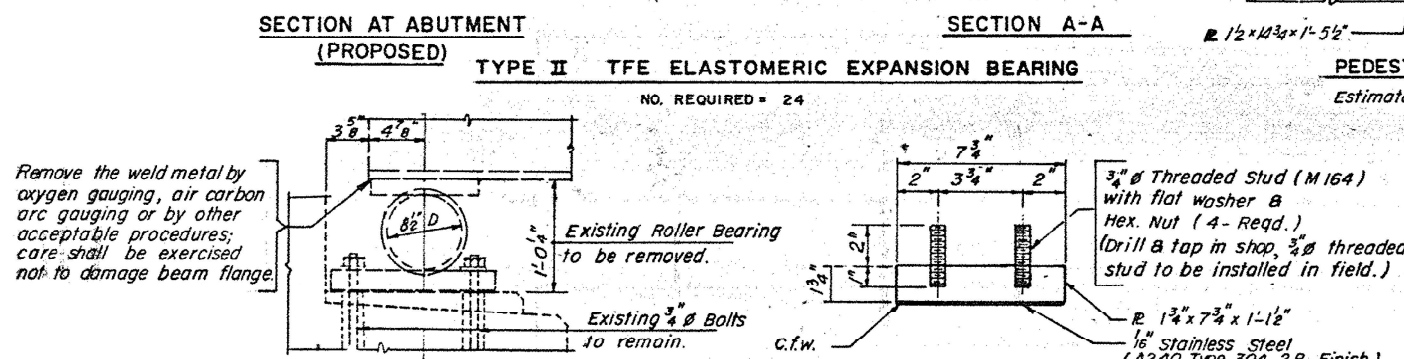
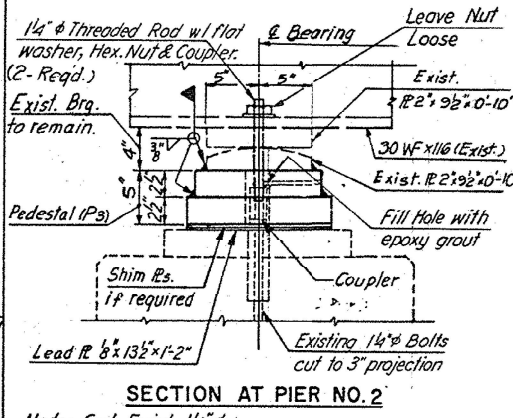
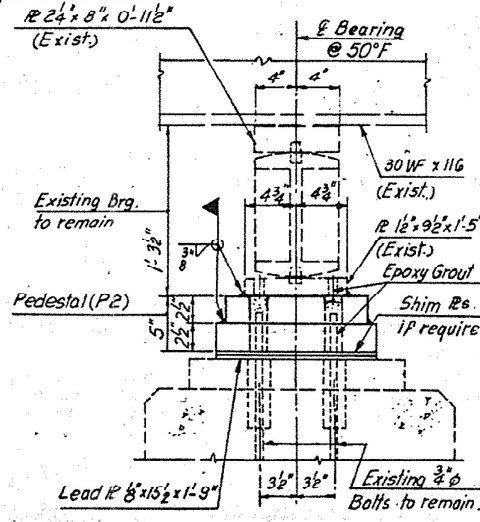
EXISTING SUPERSTRUCUTURE DETAILS II
LOCATION 7: SN 016-2058 (9TH AVENUE)

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-139-BP	COOK	46	40
		CONTRACT NO. 62P57		
		ILLINOIS FED. AID PROJECT		

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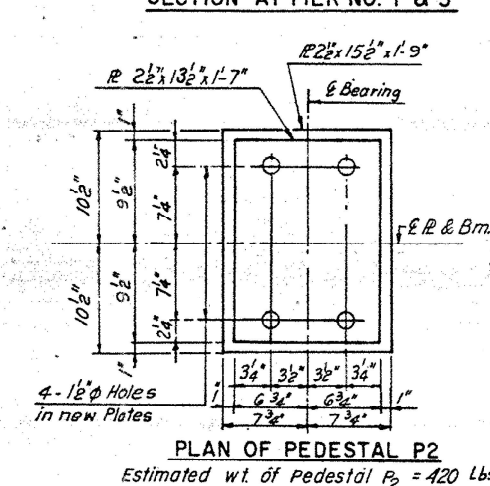
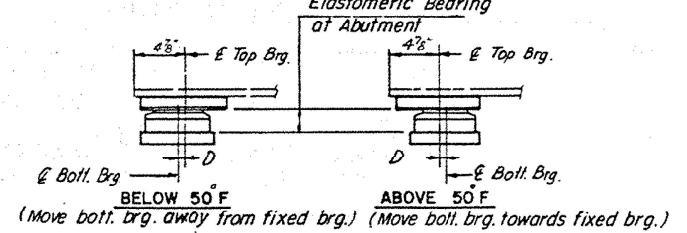
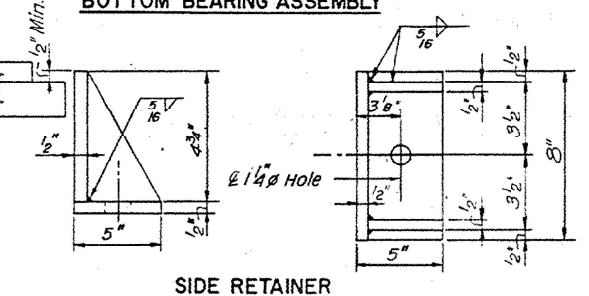
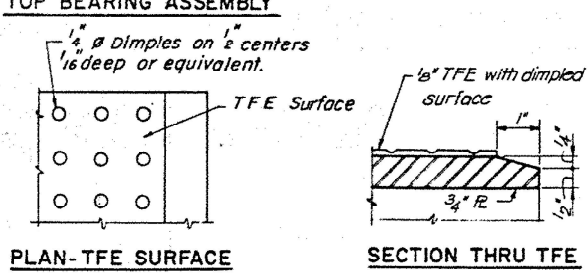
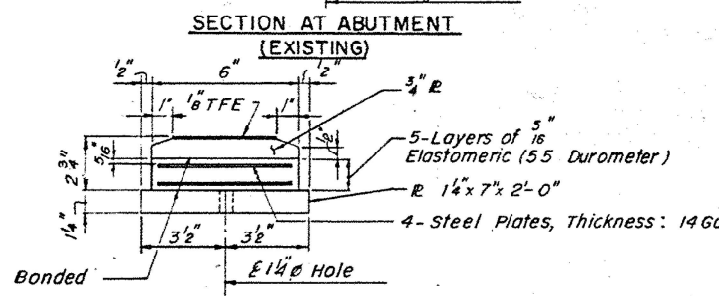


NOTE: Contractor may alter number and thickness of pedestal plates. Minimum thickness to be 1 1/2 inches. Engineer shall approve alternate plates and welds.

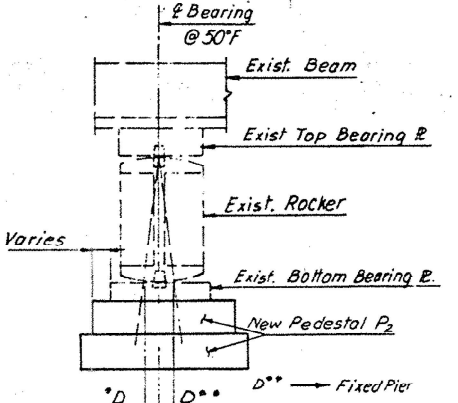


Note: The 1/8" TFE sheet shall be bonded directly to the top steel plate with a two-component, medium viscosity epoxy resin, conforming to the requirements of the Federal Specification MMM-A-134 Type 1. The bond agent shall be applied on the full area of the contact surfaces.

Bonding of 1/8" TFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.



ROCKER BEARING DETAILS AT PIER NO. 1 & 3



Note: Cut Exist. 1/4" Bolts to projection.

Estimated wt. of Pedestal P3 = 236 Lbs.

FIXED BEARING DETAILS AT PIER NO. 2

NO. REQUIRED = 12

- BEARING REPLACEMENT NOTES:**
- 0. TYPE II TFE ELASTOMERIC EXPANSION BEARINGS:**
- RAISE BRIDGE 6" ±
 - REMOVE EXISTING BEARING
 - INSTALL PEDESTAL
 - INSTALL ELASTOMERIC BEARING ON PEDESTAL
 - INSTALL 3/4" Ø THREADED BOLT TO A TIGHT FIT. INSTALL WASHERS AND NUTS.
- 1. ROCKER BEARINGS:**
- RAISE BRIDGE 6" ±
 - INSTALL PEDESTAL IN ACCORDANCE WITH SETTING DIAGRAM AND GROUT HOLES AROUND ANCHOR BOLTS WITH EPOXY GROUT (COST OF GROUTING INCIDENTAL TO STRUCTURAL STEEL.)
 - WELD BOTTOM PLATE TO PEDESTAL
- 2. FIXED BEARING:**
- REMOVE NUTS FROM ALL BEARINGS.
 - RAISE BRIDGE 6" ±
 - REMOVE EXISTING BOTTOM BRG. PLATE.
 - INSTALL COUPLER.
 - INSTALL BUILT UP PLATES & EXIST. BOTTOM BRG. PLATE.
 - INSTALL 1/4" Ø X 9" THREADED ROD TO A TIGHT FIT.
 - WELD BOTTOM BRG. PLATE TO PEDESTAL.
 - EPOXY GROUT ANCHOR BOLTS AFTER LOWERING BRIDGE.

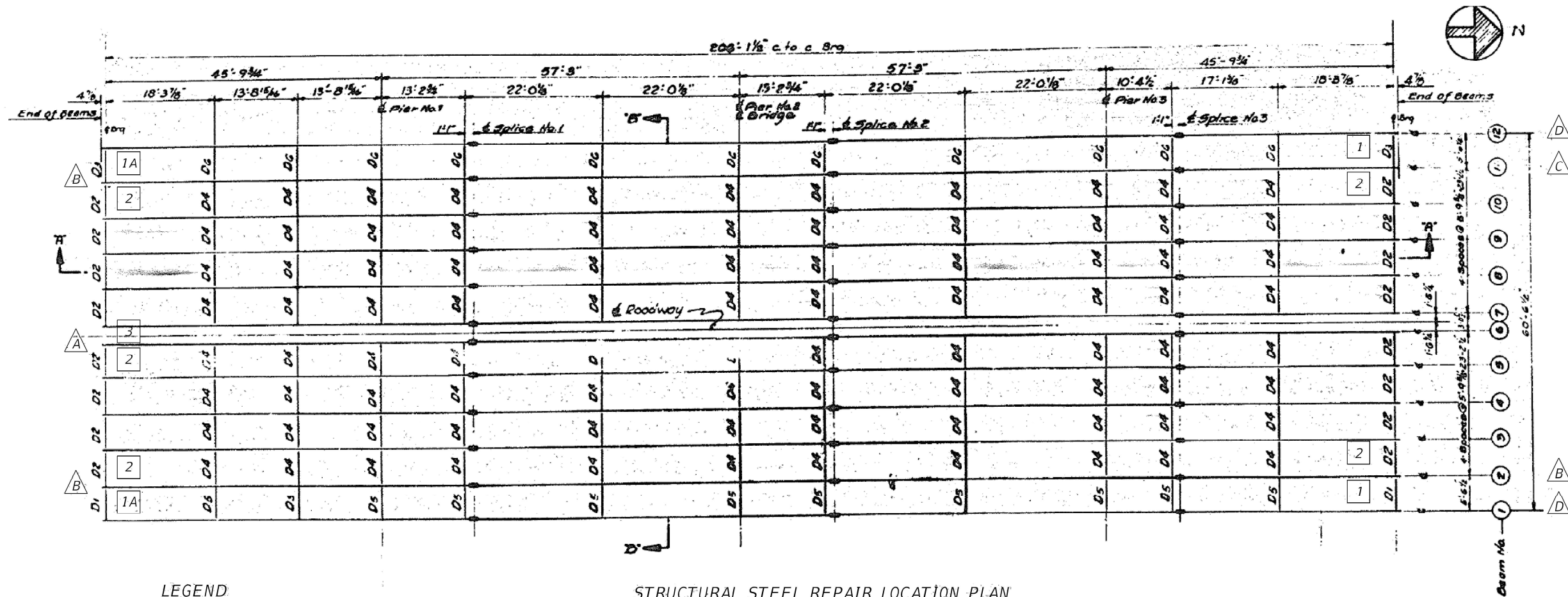
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PLOT DATE = 10/20/2021	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING BEARING DETAILS	SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.
LOCATION 7: SN 016-2058 (9TH AVENUE)							

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-139-BP	COOK	46	41
CONTRACT NO. 62P57				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY



LEGEND

2 Beam Number

A Beam End Repair Type

1 Diaphragm Type

STRUCTURAL STEEL REPAIR LOCATION PLAN

Notes:
All existing girders are WF30x116.
See sheet 7 and 8 for steel repair details.

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PLOT DATE = 10/20/2021	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STUCTURAL STEEL REPAIR DETAILS
LOCATION 7: SN 016-2058 (9TH AVENUE)

SCALE: SHEET OF SHEETS STA. TO STA.

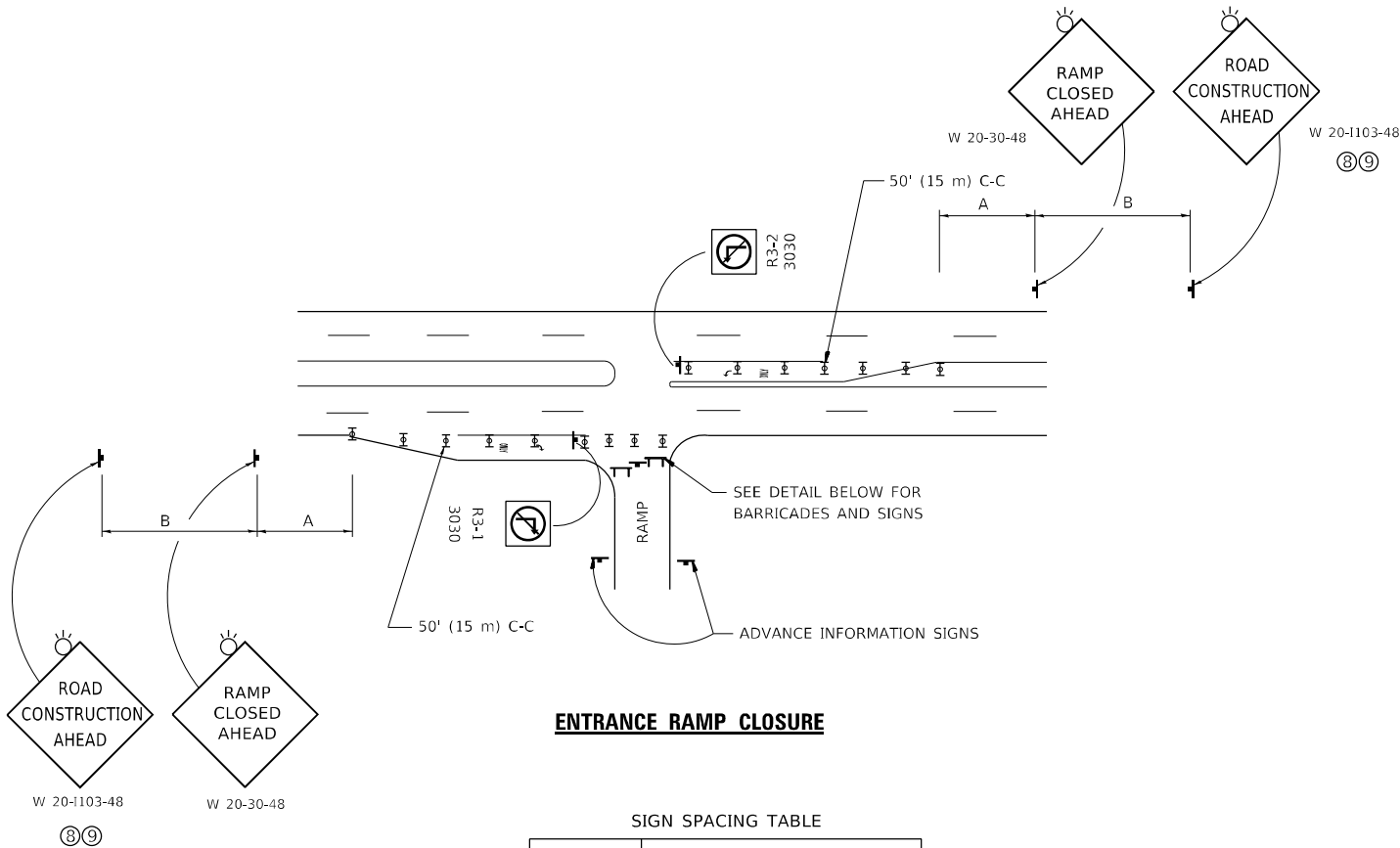
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CONTRACT NO. 62P57				
ILLINOIS FED. AID PROJECT				

MODEL: Default
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Notes:

- Existing bearing studs to be cut flush with bottom of beam bottom flange.
- Cost of drilling holes in existing steel members is included with Structural Steel Repairs
- All holes $\frac{13}{16}$ " $\varnothing$ for $\frac{3}{4}$ " $\varnothing$ bolts unless noted otherwise. Cost of drilling holes in existing steel members is included with Furnishing and Erecting Structural Steel.
- All plates shall be $\frac{1}{2}$ " thick unless noted otherwise.
- See sheet 5 of 7 for repair locations.
- Installation of new diaphragms shall not commence until all bolts for new web plates and clip angles are fully tightened.
- 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."

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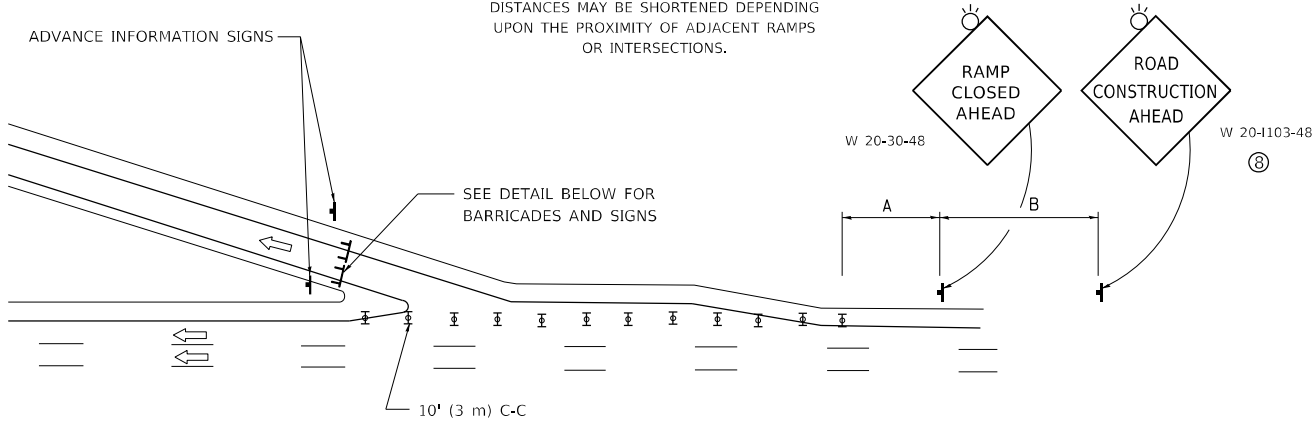


ENTRANCE RAMP CLOSURE

SIGN SPACING TABLE

FACILITY	DISTANCE BETWEEN SIGNS	
	A	B
EXPRESSWAY >24 HOURS	1000' (300 m)	1500' (450 m)
EXPRESSWAY ≤24 HOURS	500' (150 m)	500' (150 m)
ARTERIAL 55 MPH	500' (150 m)	500' (150 m)
ARTERIAL 50-45 MPH	350' (100 m)	350' (100 m)
ARTERIAL <45 MPH	200' (60 m)	200' (60 m)

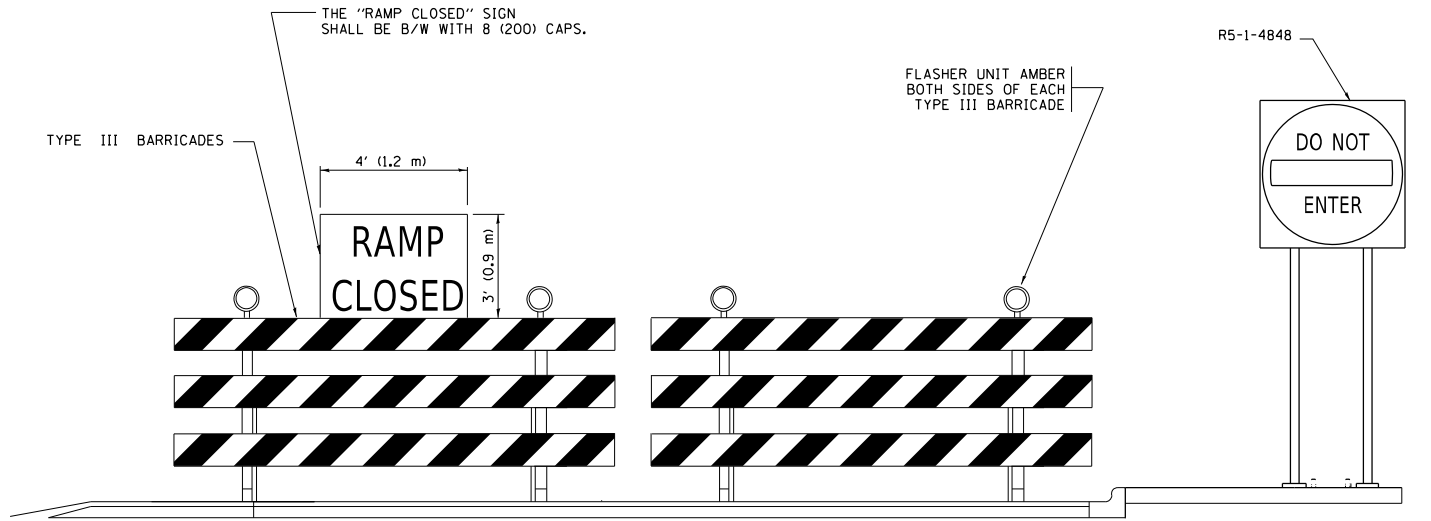
DISTANCES MAY BE SHORTENED DEPENDING UPON THE PROXIMITY OF ADJACENT RAMPS OR INTERSECTIONS.



EXIT RAMP CLOSURE

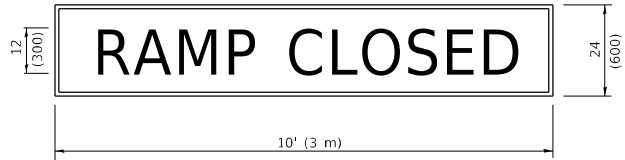
SYMBOLS

- TYPE II BARRICADE OR DRUM
- TYPE III BARRICADE WITH 2 FLASHING LIGHTS



DETAIL FOR REQUIRED BARRICADES & SIGNS

RAMP CLOSURE ADVANCE WARNING SIGN



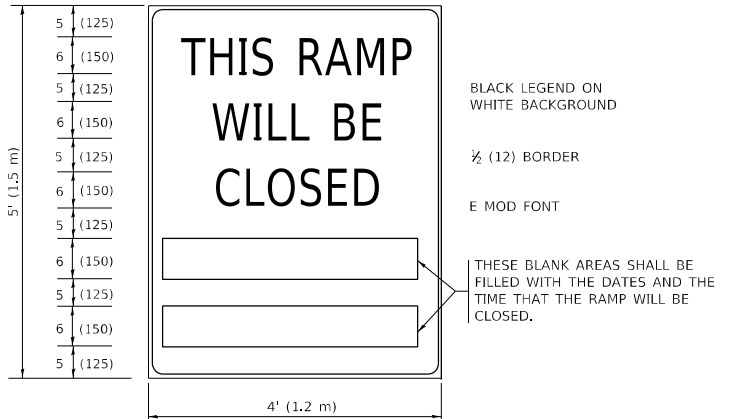
BLACK LEGEND ON ORANGE BACKGROUND MOUNTED DIAGONALLY
E MOD FONT
1 (25) BORDER

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

RAMP CLOSURE ADVANCE INFORMATION SIGN



BLACK LEGEND ON WHITE BACKGROUND

1/2 (12) BORDER

E MOD FONT

THESE BLANK AREAS SHALL BE FILLED WITH THE DATES AND THE TIME THAT THE RAMP WILL BE CLOSED.

GENERAL NOTES:

- CONES MAY BE SUBSTITUTED FOR DRUMS OR TYPE II BARRICADES DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (700) HIGH.
- VERTICAL BARRICADES SHALL NOT BE USED FOR RAMP CLOSURES.
- A FLAGGER SHALL BE POSITIONED AT EACH CLOSED RAMP THAT IS OPEN TO CONSTRUCTION VEHICLES, PRECEDED BY A W20-7 FLAGGER WARNING SIGN.
- 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).
- 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.
- 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.

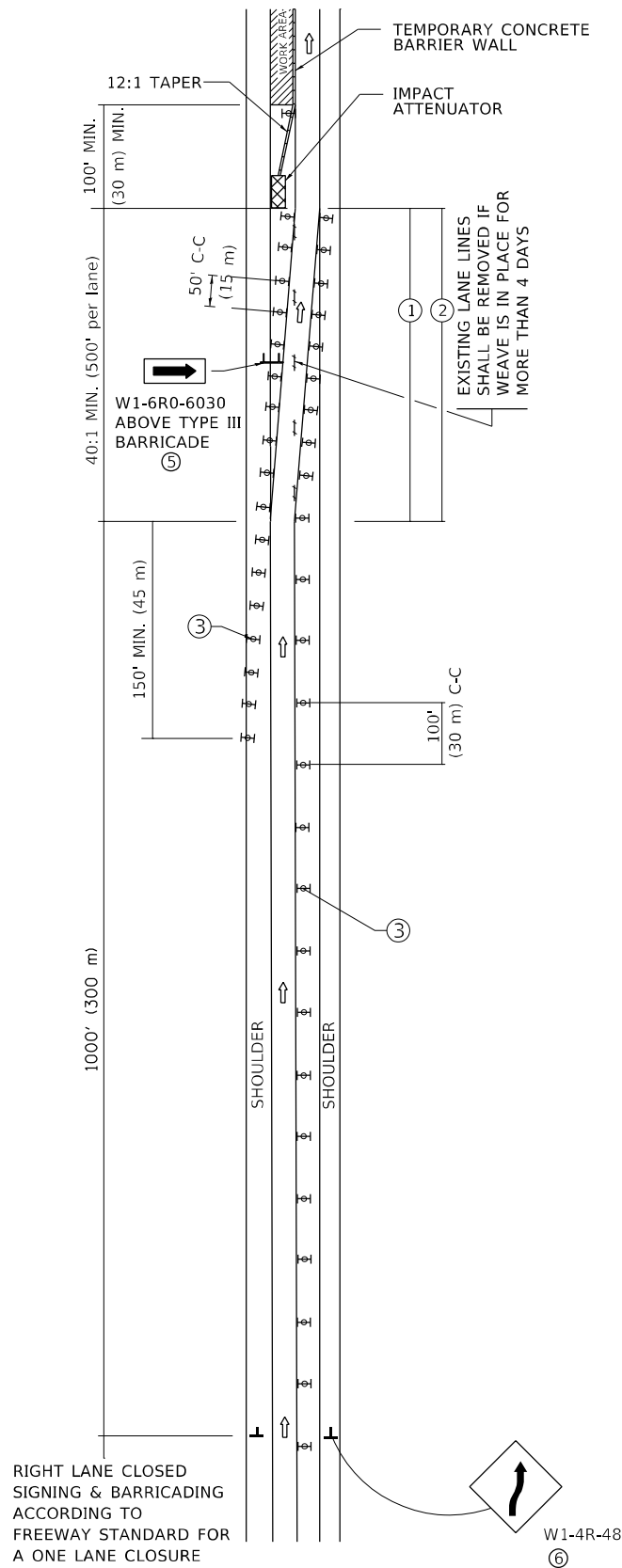
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ENTRANCE_AND_EXIT_RAMP
CLOSURE_DETAILS

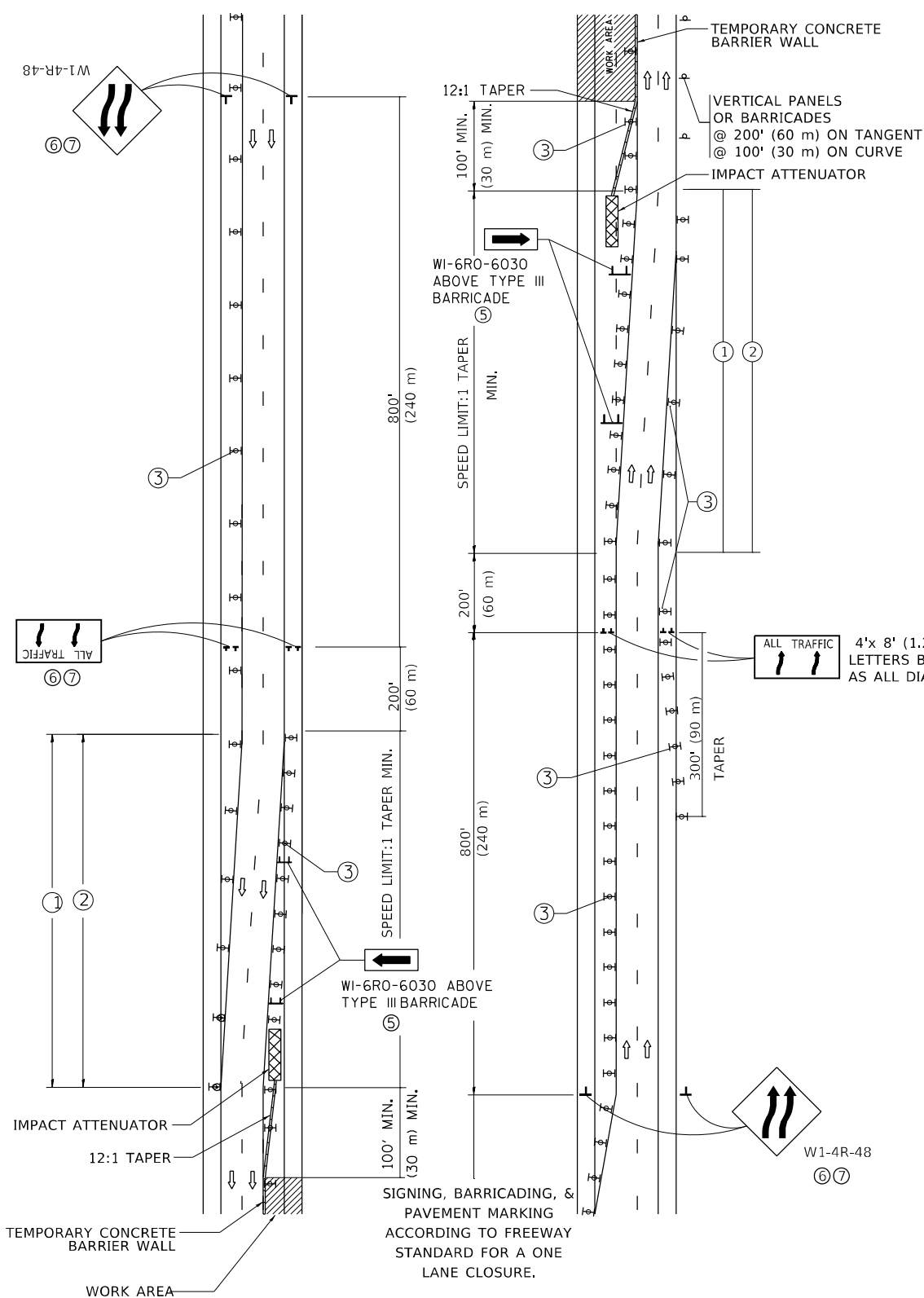
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-139-BP	COOK	46	44
TC-08		CONTRACT NO. 62P57		
		ILLINOIS FED. AID PROJECT		

SINGLE LANE WEAVE



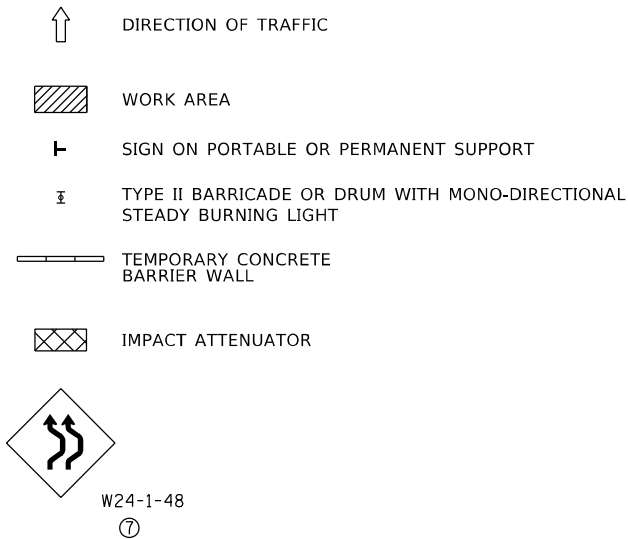
MULTI-LANE WEAVE



GENERAL NOTES:

- EXISTING CONFLICTING PAVEMENT MARKING LINES SHALL BE REMOVED. PAVEMENT MARKING REMOVAL SHALL NOT BE REQUIRED FOR SINGLE LANE WEAVES UNDER 4 DAYS IN DURATION.
- 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.
- PLASTIC DRUMS WITH STEADY BURN LIGHTS AT 50' (15 m) C-C SPACING IN TAPERS AND 100' (30 m) C-C SPACING IN TANGENTS.
- ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
- 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.
- 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.
- THE NUMBER OF ARROWS ON THESE SIGNS SHALL MATCH THE NUMBER OF LANES OPEN TO TRAFFIC.

SYMBOLS



ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

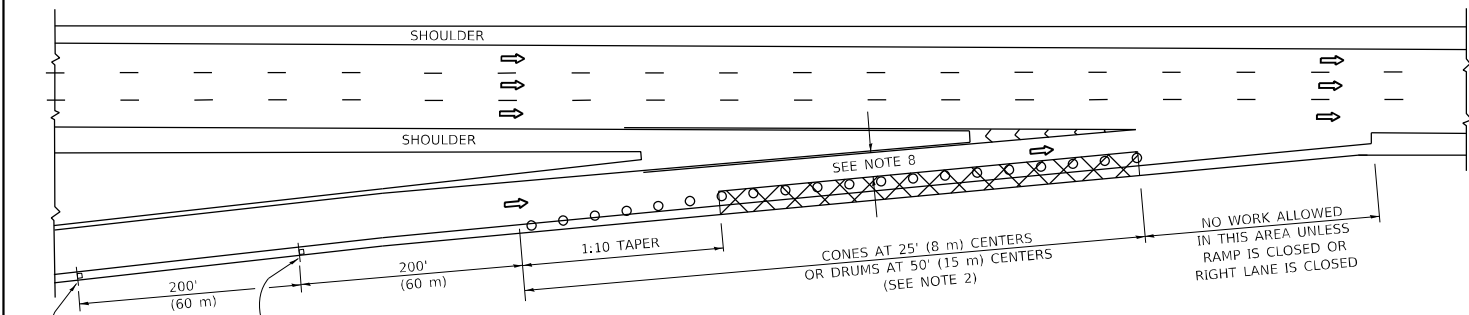
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL DETAILS FOR
FREEWAY SINGLE & MULTI-LANE WEAVE

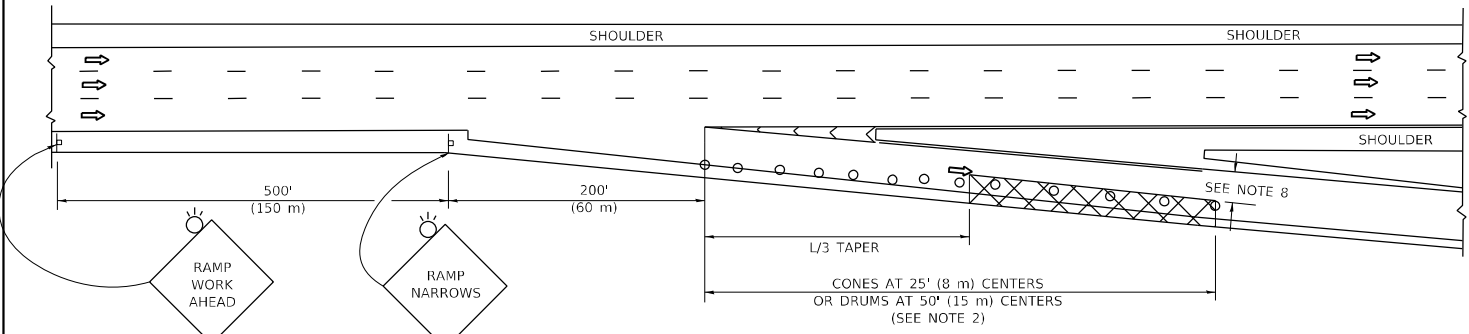
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-139-BP	COOK	46	45
TC-09		CONTRACT NO. 62P57		
		ILLINOIS FED. AID PROJECT		

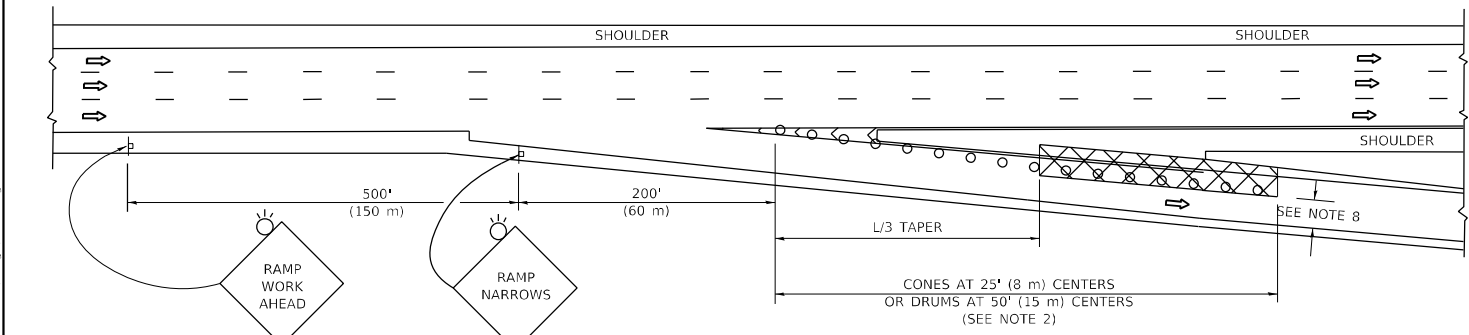
PARTIAL RAMP CLOSURE DETAILS



TYPICAL ENTRANCE RAMP



TYPICAL EXIT RAMP



TYPICAL EXIT RAMP

SYMBOLS

- ACTIVE WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- TYPE II BARRICADE OR DRUM
- CONE, DRUM OR BARRICADE
- IMPACT ATTENUATOR OF TYPE AND TEST LEVEL SPECIFIED

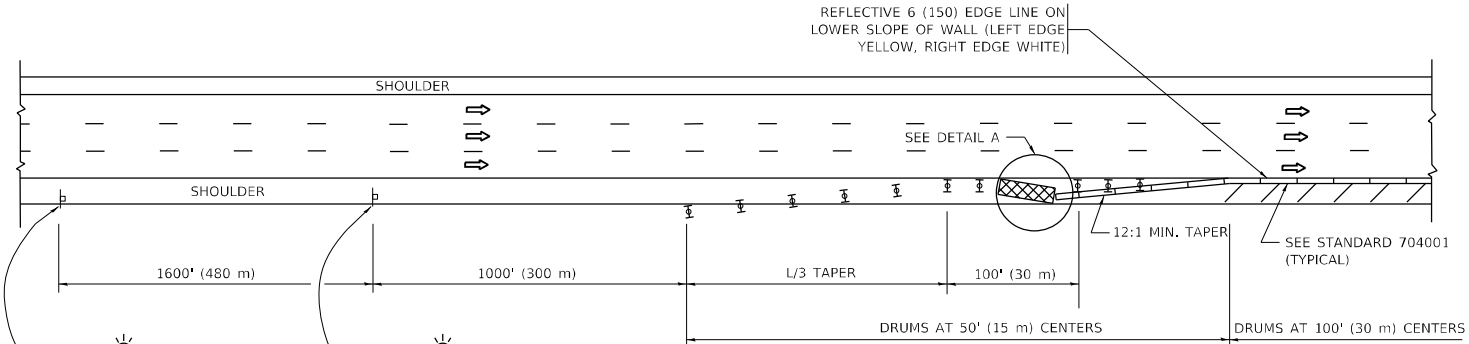
GENERAL NOTES:

- THE "L" DISTANCE EQUALS:

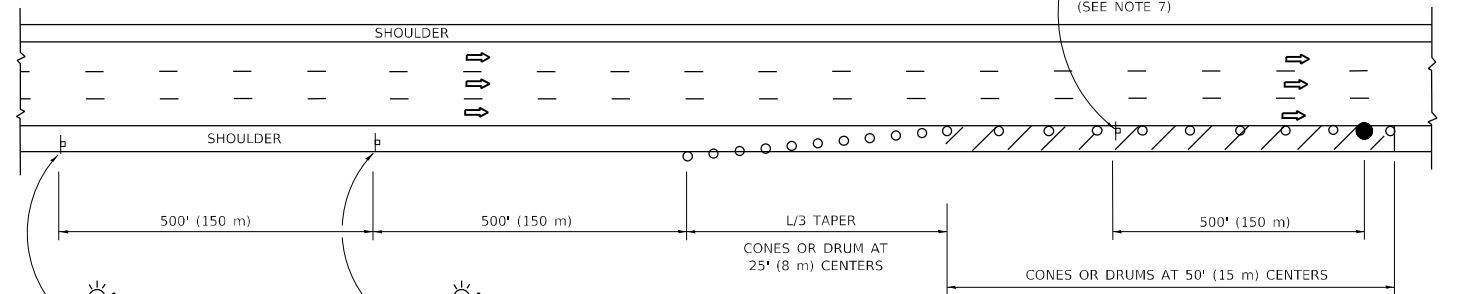
SPEED LIMIT	FORMULAS	
	METRIC	ENGLISH
45 mph (80 km/h) OR GREATER:	$L=0.65(W)(S)$	$L=(W)(S)$

W = WIDTH OF OFFSET IN FEET (METERS)
S = NORMAL POSTED SPEED MPH (KM/H)
- TYPE II BARRICADES OR DRUMS ARE REQUIRED FOR ALL NIGHTTIME CLOSURES. TYPE II BARRICADES OR DRUMS WITH MONODIRECTIONAL STEADY BURN LIGHTS ARE REQUIRED FOR DELINEATING OBSTACLES, EXCAVATIONS, OR HAZARDS EXCEEDING 100 FT (30m) IN LENGTH AT NIGHT.
- ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
- FLASHING LIGHTS SHALL BE USED DURING THE HOURS OF DARKNESS AND SHALL BE INSTALLED ABOVE THE FIRST TWO SETS OF SIGNS.

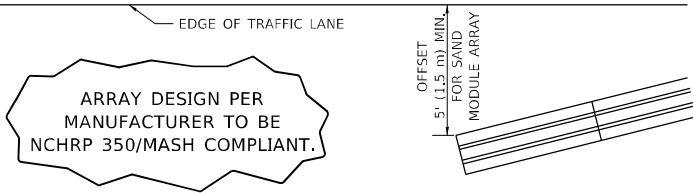
SHOULDER CLOSURE DETAILS



PERMANENT SHOULDER CLOSURE



TEMPORARY SHOULDER CLOSURE



DETAIL "A"
IMPACT ATTENUATOR, TEMPORARY
(SEE NOTE 5)

- THE IMPACT ATTENUATOR, TEMPORARY IS NOT REQUIRED WHEN THE TEMPORARY CONCRETE BARRIER WALL IS PROTECTED BY OR IS TIED INTO THE EXISTING GUARDRAIL. IF OFFSET IS LESS THAN 5 FEET USE NARROW USE TYPE DEVICE TO MEET NCHRP350/MASH.
- AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL FREEWAY CLOSURES.
- THE FLAGGER AND FLAGGER SIGN ARE REQUIRED AT THE ABOVE WORK SITES WHEN:
 - FOUR OR MORE WORK VEHICLES ENTER THE TRAFFIC LANES IN A ONE HOUR PERIOD.
 - THE WORK AVTIVITY REQUIRES FREQUENT ENCROACHMENT INTO THE LANE OPEN TO TRAFFIC.THE FLAGGER SHALL BE STATIONED APPROXIMATELY 100' (30 m) TO 200' (60 m) IN ADVANCE OF THE WORKERS.
- 12' MIN. WIDTH TANGENT SECTION
16' MIN. WIDTH CURVE SECTION.
- TEMPORARY SHOULDER AND NON-SYSTEM INTERCHANGE PARTIAL RAMP CLOSURES ARE ALLOWED WEEKDAYS BETWEEN 9:00 A.M. AND 3:00 P.M. AND BETWEEN 7:00 P.M. AND 5:00 A.M. OR AS APPROVED BY THE EXPRESSWAY TRAFFIC OPERATIONS ENGINEER. PERMANENT SHOULDER AND PARTIAL RAMP CLOSURES WILL ONLY BE PERMITTED IF CALLED FOR IN THE PLANS OR AS APPROVED BY THE EXPRESSWAY OPERATIONS ENGINEER.

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

MODEL: Default
FILE: \\nctd-ar\project-ar\dwg\hwy\com\p\w\dot\Documents\DOT Offices\District 1\Projects\102222\CAD\Drawings\Detail\Drawings\

USER NAME = dila	DESIGNED -	REVISED - S.P.B. 12-09
	DRAWN - D.W.S.	REVISED - M.D. 06-13
PLOT SCALE = 100,0000 ' / in.	CHECKED -	REVISED - M.D. 01-18
PLOT DATE = 10/20/2021	DATE - 11-96	REVISED - M.D. 10-20

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL DETAILS FOR FREEWAY
SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-139-BP	COOK	46	46
TC-17		CONTRACT NO. 62P57		
		ILLINOIS	FED. AID PROJECT	