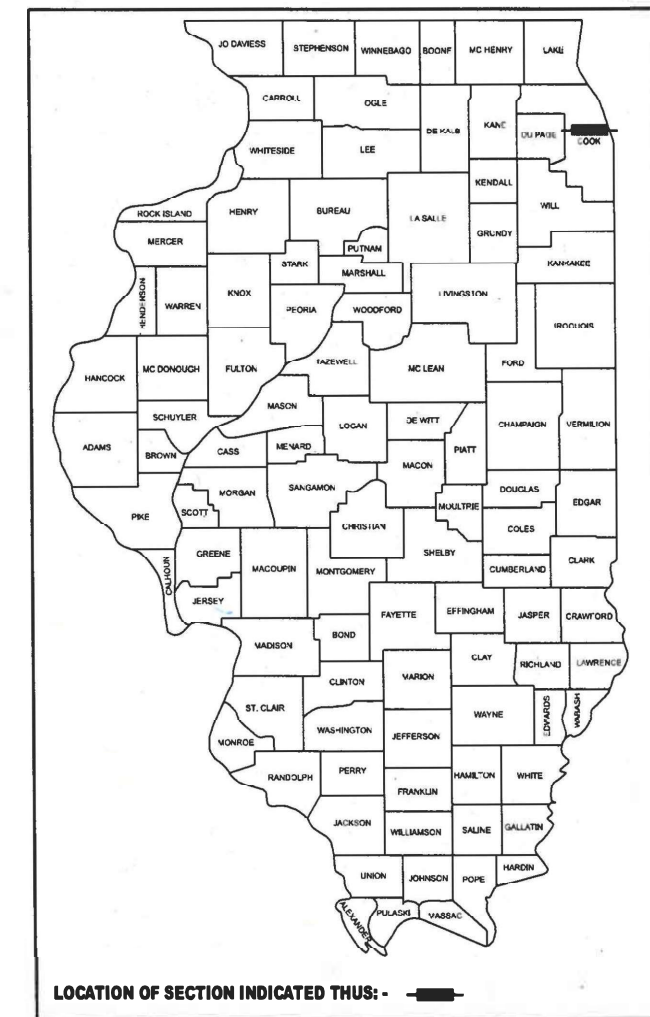


STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1360	(21BZ-1-1213) BP 24	COOK	25	1
		ILLINOIS	CONTRACT NO. 62X19	

D-91-004-25



FOR INDEX OF SHEETS, SEE SHEET NO. 2

**THIS IMPROVEMENT IS IN THE CITY OF CHICAGO**

# PROPOSED HIGHWAY PLANS

## VARIOUS ROUTES (FAU 1360 FOSTER AVE & FAU 2812 PULASKI RD) AT VARIOUS LOCATIONS SECTION : (21BZ-1-1213) BP 24 BRIDGE PAINTING COOK COUNTY

**LOCATION #1:**  
Foster Ave Over North Branch Chicago River  
SN: 016-0249.  
FOSTER AVE:  
2023 ADT = 19100  
SPEED LIMIT = 30 MPH

**LOCATION #2:**  
Foster Ave Over North Branch Chicago River  
SN: 016-0250.  
FOSTER AVE:  
2023 ADT = 19100  
SPEED LIMIT = 30 MPH

**LOCATION #3:**  
Foster Ave over North Shore Channel  
SN: 016-0251.  
FOSTER AVE:  
2023 ADT = 19100  
SPEED LIMIT = 30 MPH

**LOCATION #4:**  
Pulaski Rd Over North Branch Chicago River  
SN: 016-2612.  
PULASKI RD:  
2023 ADT = 16200  
SPEED LIMIT = 30 MPH

**LOCATION #2:**  
FOSTER AVE OVER NORTH BRANCH CHICAGO RIVER  
SN: 016-0250.  
CITY OF CHICAGO

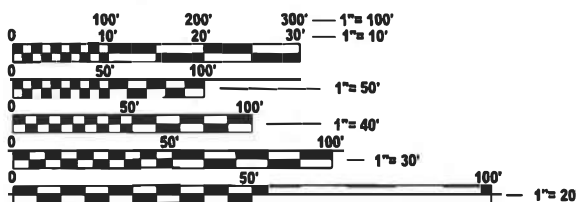
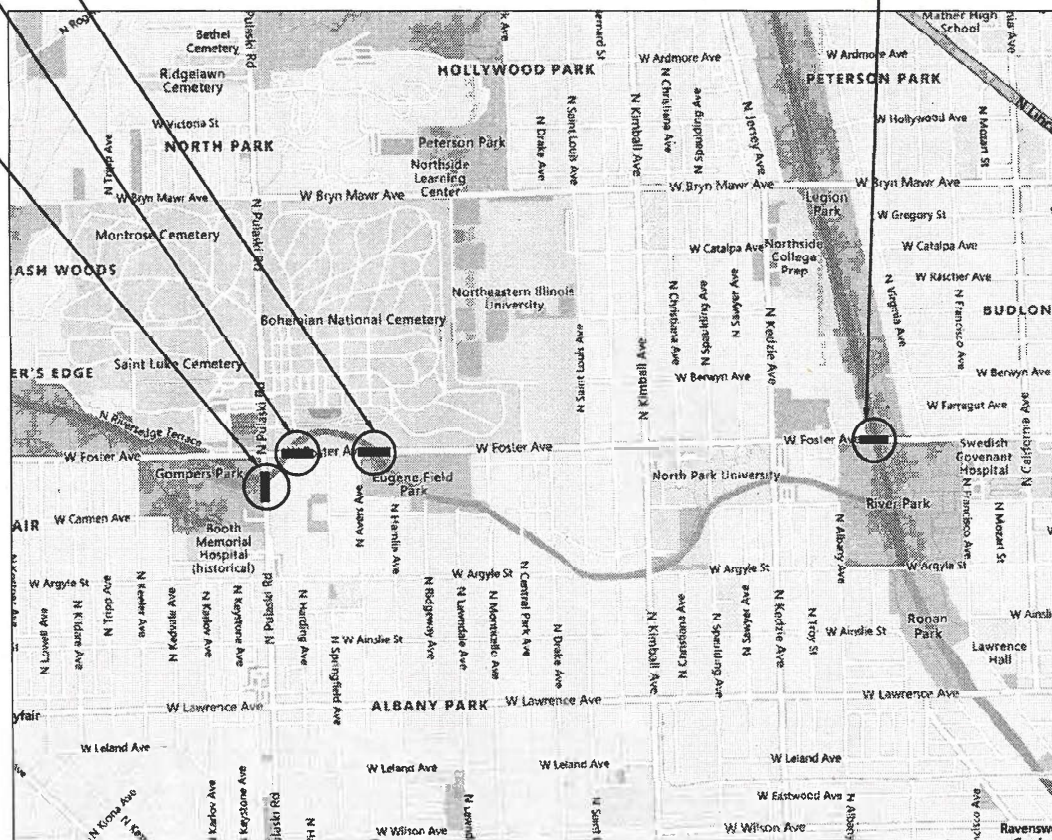
**LOCATION #1:**  
FOSTER AVE OVER NORTH BRANCH CHICAGO RIVER  
SN: 016-0249.  
CITY OF CHICAGO

**LOCATION #4:**  
PULASKI RD OVER NORTH BRANCH CHICAGO RIVER  
SN: 016-2612.  
CITY OF CHICAGO

C-91-004-25

R 13 E

T 40 N



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

**C.U.A.N.**  
CHICAGO UTILITY ALERT NETWORK  
1-312-744-7000

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

**CONTRACT NO. 62X19**

CHICAGO CITY TOWNSHIP

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED Aug 14<sup>th</sup> 2024  
José Torres IR  
REGIONAL ENGINEER

October 4, 2024  
Scott A. Etk  
ENGINEER OF DESIGN AND ENVIRONMENT

October 4, 2024  
James J. Gu  
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

**PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS**

## INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	INDEX OF SHEETS, STATE STANDARDS AND GENERAL NOTES
3	SUMMARY OF QUANTITIES
4-7	EXISTING BRIDGE PLANS (SN 016-0249)
8-12	EXISTING BRIDGE PLANS (SN 016-0250)
13-19	EXISTING BRIDGE PLANS (SN 016-0251)
20-25	EXISTING BRIDGE PLANS (SN 016-2612)

## STATE STANDARDS

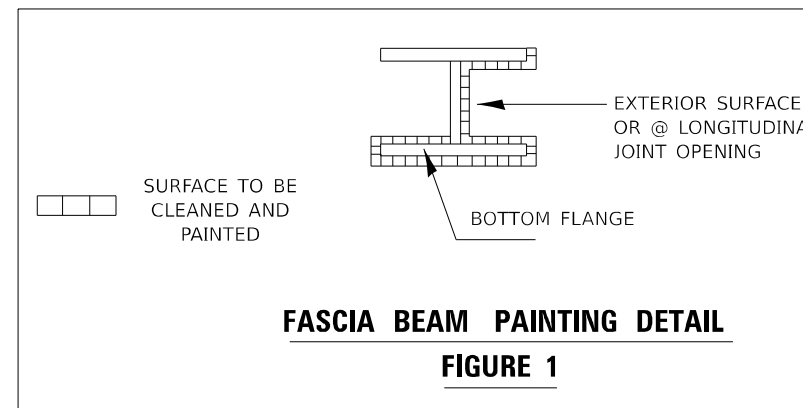
STANDARD NO.	DESCRIPTION
000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
701606-10	URBAN SINGLE LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE

## GENERAL NOTES

- BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "C.U.A.N." (CHICAGO UTILITY ALERT NETWORK) AT (312) 744-7000 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS UTILITIES. (48 HOUR NOTIFICATION IS REQUIRED).
- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE CITY OF CHICAGO AND OBTAIN ALL NECESSARY PERMITS.
- THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
- THESE PLANS HAVE BEEN PREPARED FROM NOTES RECEIVED FROM THE BUREAU OF MAINTENANCE BRIDGE INSPECTORS.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROTECT AND MAINTAIN THE EXISTING BRIDGE LIGHTING AT ANY LOCATIONS THAT LIGHTING IS ENCOUNTERED ADJACENT TO AN AREA TO BE CLEANED AND PAINTED.
- THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
- WHEN ARTIFICIAL LIGHTING IS UTILIZED IN NIGHTTIME OPERATIONS, THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTIONS PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC AND ADJACENT RESIDENTIAL AREAS.
- THE CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS WHEN WORKING NEAR THE ABUTMENTS IF ELECTRICAL JUNCTIONS BOXES AND ATTACHED CONDUITS ARE PRESENT.

## GENERAL PAINT NOTES

- CLEANING AND PAINTING OF THE EXISTING STRUCTURAL STEEL SHALL BE AS SPECIFIED IN THE SPECIAL PROVISION FOR "CLEANING AND PAINTING EXISTING STEEL STRUCTURES".
- ALL ITEMS (SUCH AS, BUT NOT LIMITED TO: CONDUITS, BRACKETS AND DECK DRAINS) ATTACHED TO OUTSIDE OF THE FASCIA BEAMS SHOULD BE CLEANES AND PAINTED.
- LOCATION 1 (SN 016-0249): THE EXTERIOR SURFACES AND TOP AND BOTTOM FLANGE OF THE FASCIA BEAM OUTSIDE THE DECK JOINTS FOR THE LENGTH OF THE BRIDGE ( SEE FIGURE 1 ) SHALL BE CLEANED PER NEAR WHITE BLAST CLEANING SSPC-SP10. BEARINGS AND ALL OTHER STRUCTURAL STEEL WITHIN 5 FEET (MEASURED ALONG THE BEAM) OF THE ABUTMENTS SHALL BE CLEANED PER NEAR WHITE BLAST CLEANING SSPC-SP10.
- LOCATION 2 & 3 (SN 016-0250 & SN 016-0251): ALL GIRDERS, BEAMS, BEARINGS AND OTHER STRUCTURAL STEEL, SHALL BE CLEANED PER NEAR WHITE BLAST CLEANING SSPC-SP10.
- LOCATION 4 (SN 016-2612): BEARINGS AND ALL OTHER STRUCTURAL STEEL WITHIN 10 FEET (MEASURED ALONG THE BEAM) OF THE ABUTMENTS AS WELL AS INSIDE AND OUTSIDE RAILINGS ALONG BOTH SIDEWALKS SHALL BE CLEANED PER NEAR WHITE BLAST CLEANING SSPC-SP10. THE BRIDGE SHALL BE WASHED AFTER IT IS CLEANED AND PAINTED PER THE BRIDGE WASHING SPECIAL PROVISION.
- ALL AREAS THAT ARE DESIGNATED TO BE CLEANED SHALL BE PAINTED ACCORDING TO THE REQUIREMENTS OF PAINT SYSTEM 1 -0Z/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 THE EXTERIOR AND BOTTOM FLANGE OF THE FASCIA BEAMS SHALL BE REDDISH BROWN, MUNSELL NO 2, 5YR 3/4.
- A MINIMUM OF 2 AIR MONITORS AT EVERY LOCATION WILL BE REQUIRED TO MONITOR ABRASIVE BLASTING OPERATIONS. SEE SPECAIL PROVISIONS FOR "CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUE".
- SSPC QP1 AND SSPC QP2 CERTIFICATION IS REQUIRED FOR THIS CONTRACT.



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USER NAME = Baraa.Alsmadi PLOT SCALE = 0.16666633" / in. PLOT DATE = 8/23/2024	DESIGNED - DRAWN - CHECKED - DATE -	REVISED - REVISED - REVISED - REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>INDEX OF SHEETS, STATE STANDARDS, AND GENERAL NOTES</b> <b>AT VARIOUS LOCATIONS</b>	F.A.P. RTE. 1360 SECTION (21BZ-1-1213) BP 24 COUNTY COOK TOTAL SHEETS 25 SHEET NO. 2 CONTRACT NO. 62X19 ILLINOIS FED. AID PROJECT
SCALE:				SHEET OF 1 SHEETS	STA. TO STA.

# SUMMARY OF QUANTITIES

0047 BRIDGE SN 016-0249 100% STATE	0047 BRIDGE SN 016-0250 100% STATE	0047 BRIDGE SN 016-0251 100% STATE	0047 BRIDGE SN 016-2612 100% STATE
--	--	--	--

Code No.	Item	Unit	Total Quantity	0047 BRIDGE SN 016-0249 100% STATE	0047 BRIDGE SN 016-0250 100% STATE	0047 BRIDGE SN 016-0251 100% STATE	0047 BRIDGE SN 016-2612 100% STATE
59200104	BRIDGE WASHING NO.4	EACH	1	0	0	0	1
67100100	MOBILIZATION	L SUM	1	0.25	0.25	0.25	0.25
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1	0.25	0.25	0.25	0.25
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	0.25	0.25	0.25	0.25
X5060601	CONTAINMENT AND DISPOSAL OF NON-LEAD PAINT CLEANING RESIDUES NO. 1	L SUM	1	1	0	0	0
X5060602	CONTAINMENT AND DISPOSAL OF NON-LEAD PAINT CLEANING RESIDUES NO. 2	L SUM	1	0	1	0	0
X5060604	CONTAINMENT AND DISPOSAL OF NON-LEAD PAINT CLEANING RESIDUES NO. 4	L SUM	1	0	0	0	1
X6640716	CHAIN LINK FABRIC, SPECIAL, 6'-0"	FOOT	18	0	0	0	18
X6700407	ENGINEER'S FIELD OFFICE, TYPE A (D1)	CAL MO	12	3	3	3	3
Z0007103	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 3	L SUM	1	0	0	1	0
Z0010501	CLEANING AND PAINTING STEEL BRIDGE NO. 1	L SUM	1	1	0	0	0
Z0010502	CLEANING AND PAINTING STEEL BRIDGE NO. 2	L SUM	1	0	1	0	0
Z0010503	CLEANING AND PAINTING STEEL BRIDGE NO. 3	L SUM	1	0	0	1	0
Z0010504	CLEANING AND PAINTING STEEL BRIDGE NO. 4	L SUM	1	0	0	0	1
Z0015500	DEBRIS REMOVAL	L SUM	1	0.25	0.25	0.25	0.25

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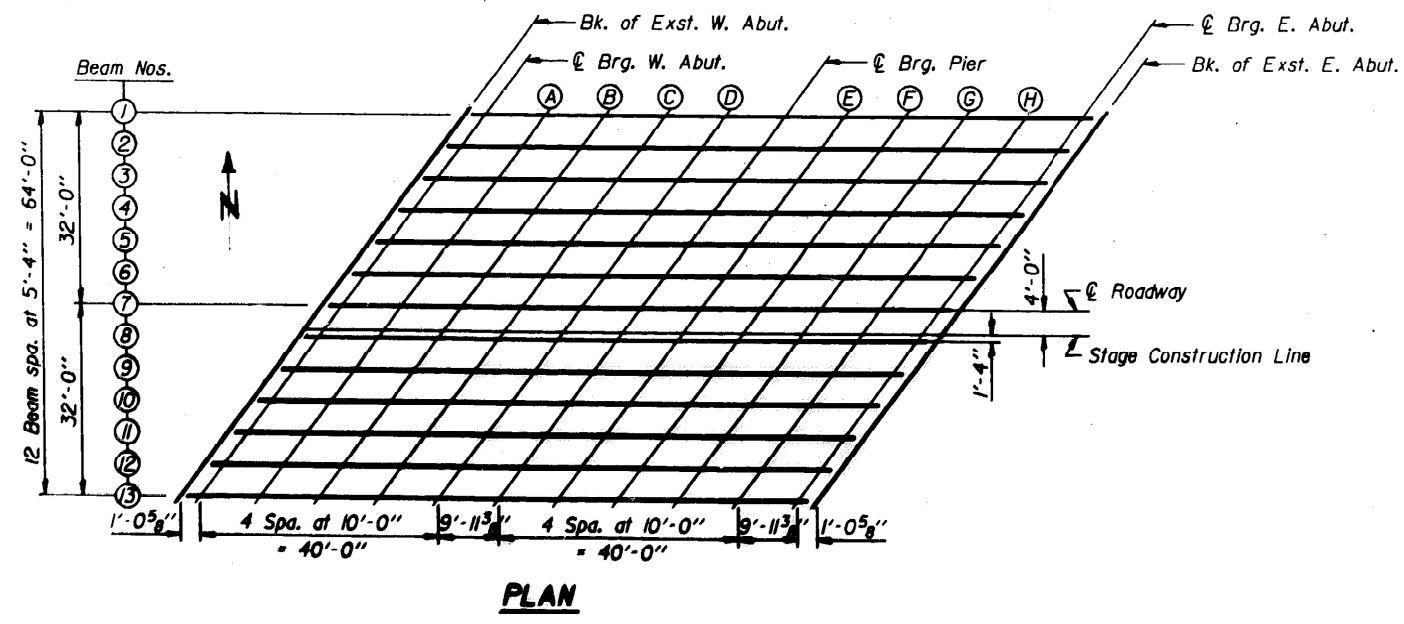
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PLOT DATE = 8/23/2024	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

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

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1360	(21BZ-1-1213) BP 24	COOK	25	3
CONTRACT NO. 62X19				
ILLINOIS FED. AID PROJECT				



**PLAN**

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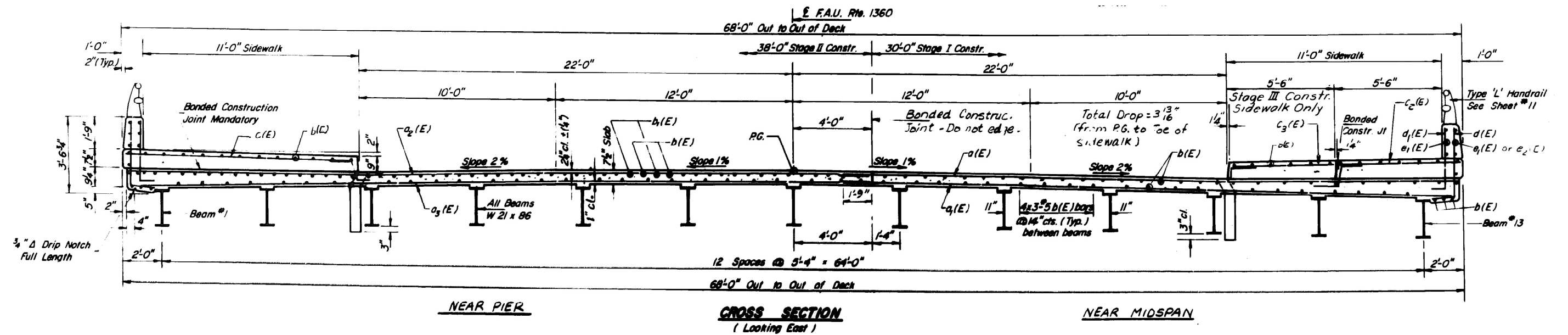
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**GENERAL PALN  
 STRUCTURE NO. 016-0249**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1360	(21BZ-1-1213) BP 24	COOK	25	4
CONTRACT NO. 62X19				
ILLINOIS FED. AID PROJECT				



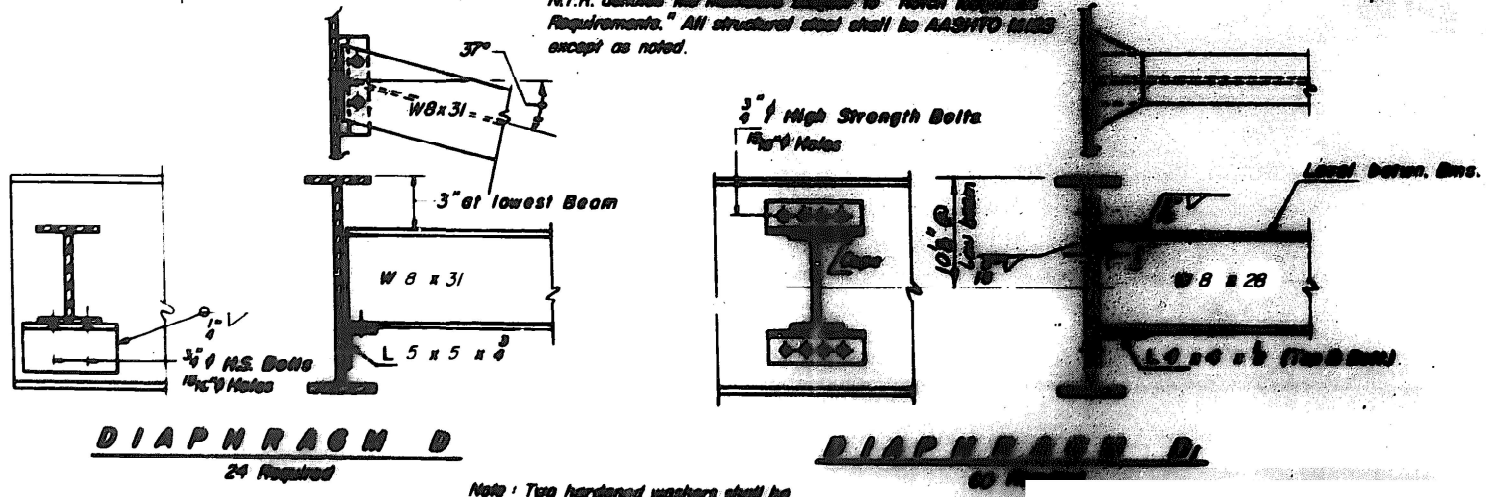
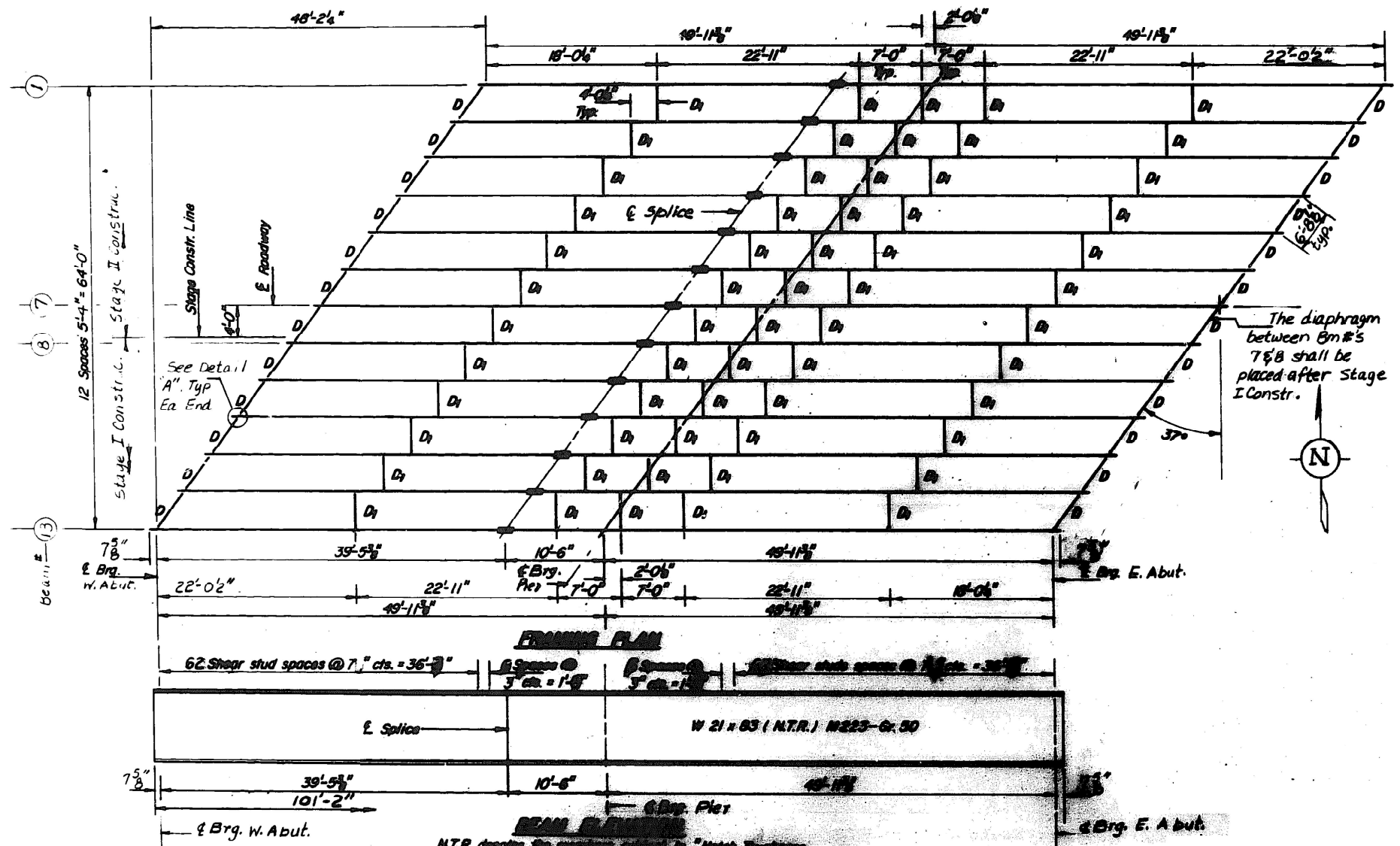
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

<b>CROSS SECTION</b> <b>STRUCTURE NO. 016-0249</b>			
SCALE:	SHEET 2	OF 4 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1360	(21BZ-1-1213) BP 24	COOK	25	5
CONTRACT NO. 62X19				
ILLINOIS FED. AID PROJECT				



M.T.R. denotes the number subject to "Metal Treatment Requirements." All structural steel shall be AASHTO M223 except as noted.

Note: Two hardened washers shall be required over all 1/4" notes.

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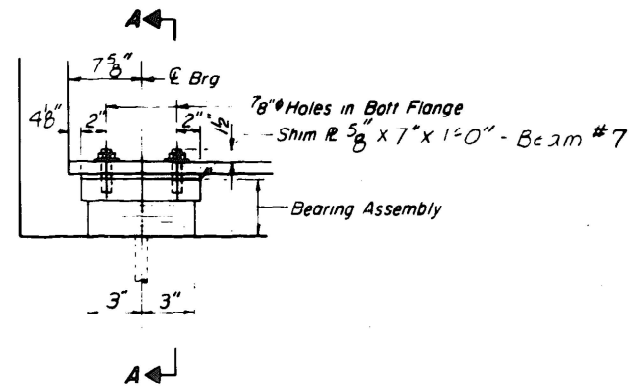
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

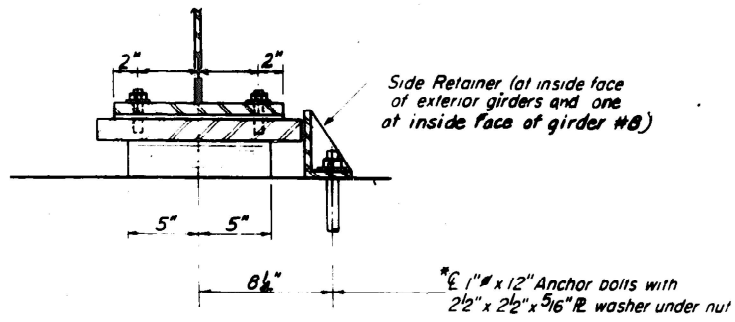
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STRUCTURE NO. 016-0249

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

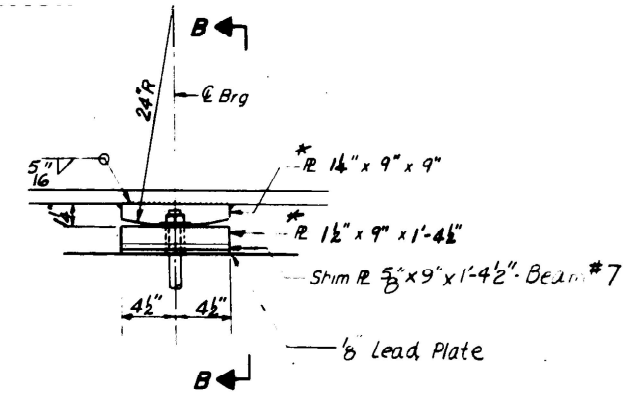
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CONTRACT NO. 62X19				
ILLINOIS FED. AID PROJECT				



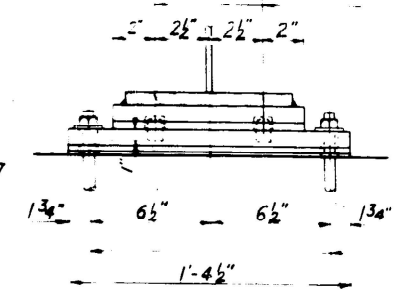
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**SECTION A-A**



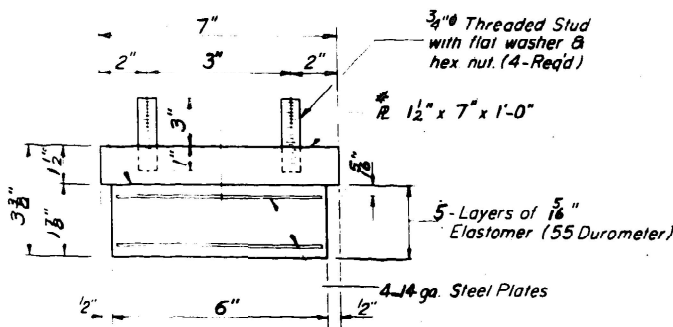
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**SECTION B-B**

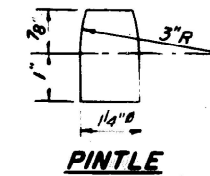
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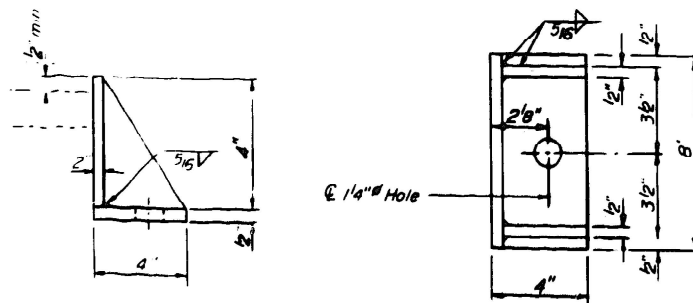


**BEARING ASSEMBLY**

Note Shim plates shall not be placed under Bearing Assembly.



**PINTLE**



**SIDE RETAINER**

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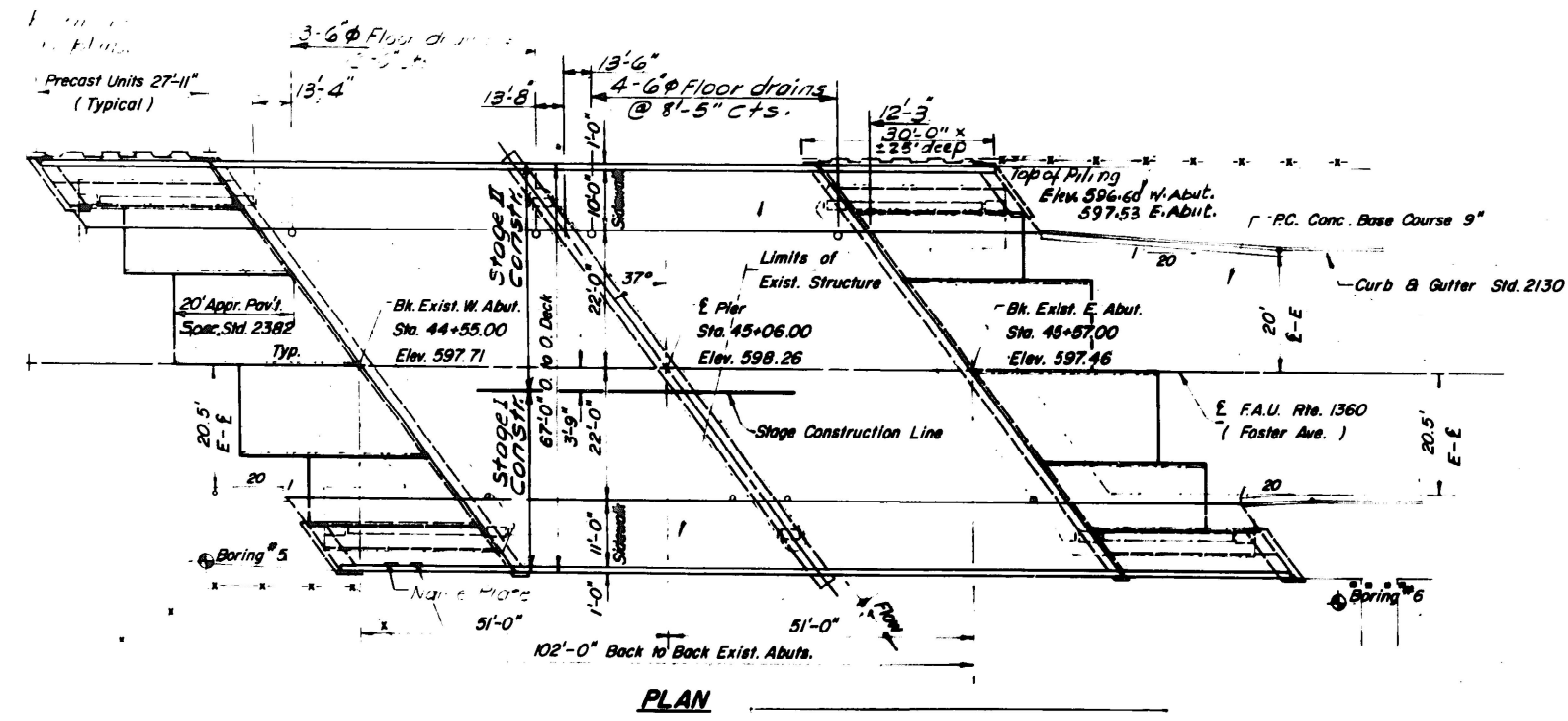
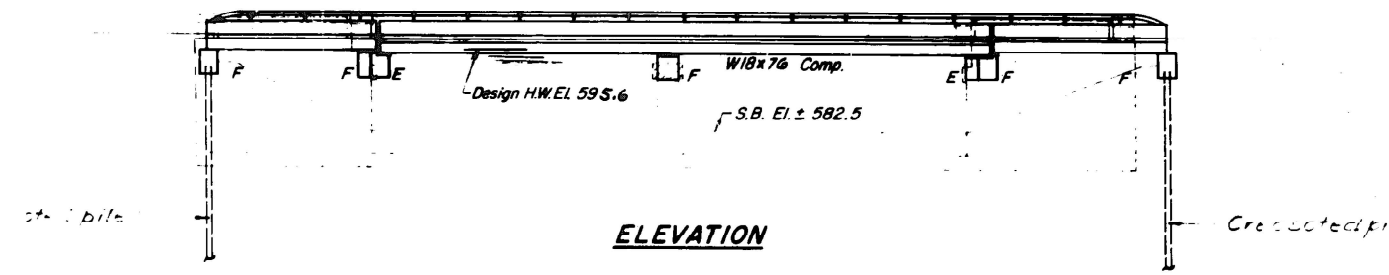
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**BEARING DETAILS  
STRUCTURE NO. 016-0249**

SCALE: SHEET 4 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1360	(21BZ-1-1213) BP 24	COOK	25	7
CONTRACT NO. 62X19				
ILLINOIS FED. AID PROJECT				



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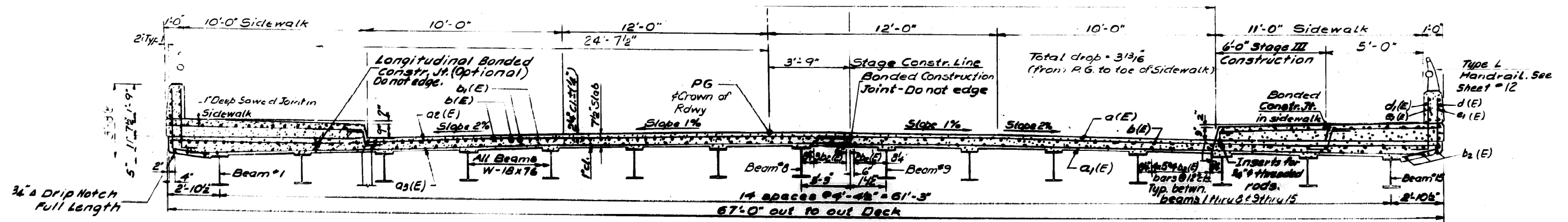
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**GENERAL PLAN AND ELEVATION**  
**STRUCTURE NO. 016-0250**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1360	(21BZ-1-1213) BP 24	COOK	25	8
CONTRACT NO. 62X19				
ILLINOIS FED. AID PROJECT				





**NEAR PIER**

**CROSS SECTION**  
(Looking East)

**NEAR MIDSPAN**

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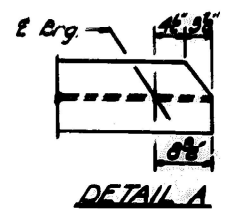
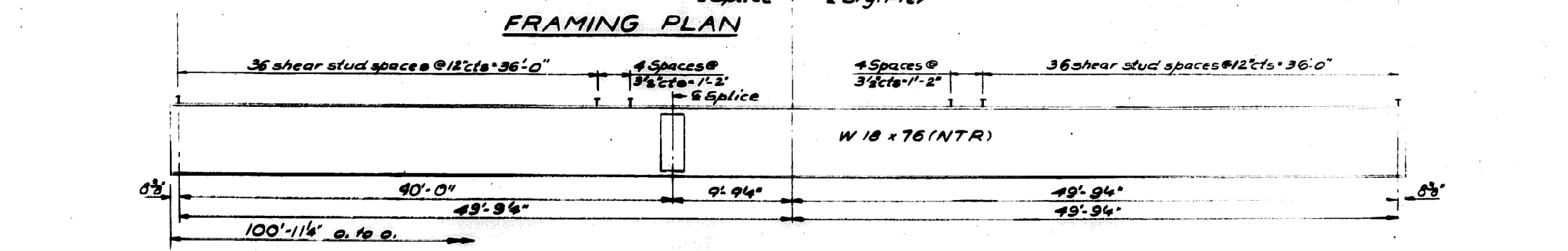
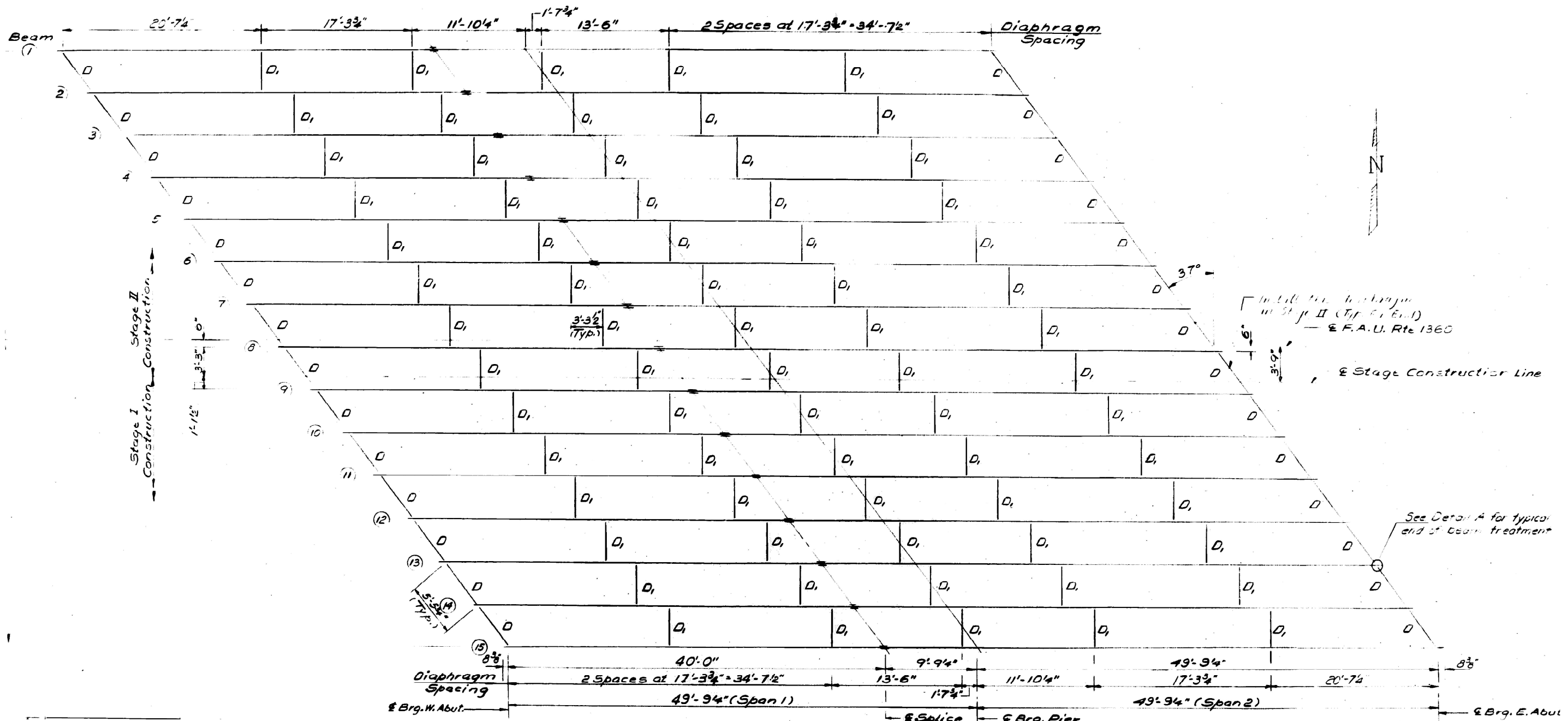
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**CROSS SECTION**  
**STRUCTURE NO , 016-0250**

SCALE: SHEET 2 OF 5 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1360	(21BZ-1-1213) BP 24	COOK	25	9
CONTRACT NO. 62X19				
ILLINOIS FED. AID PROJECT				



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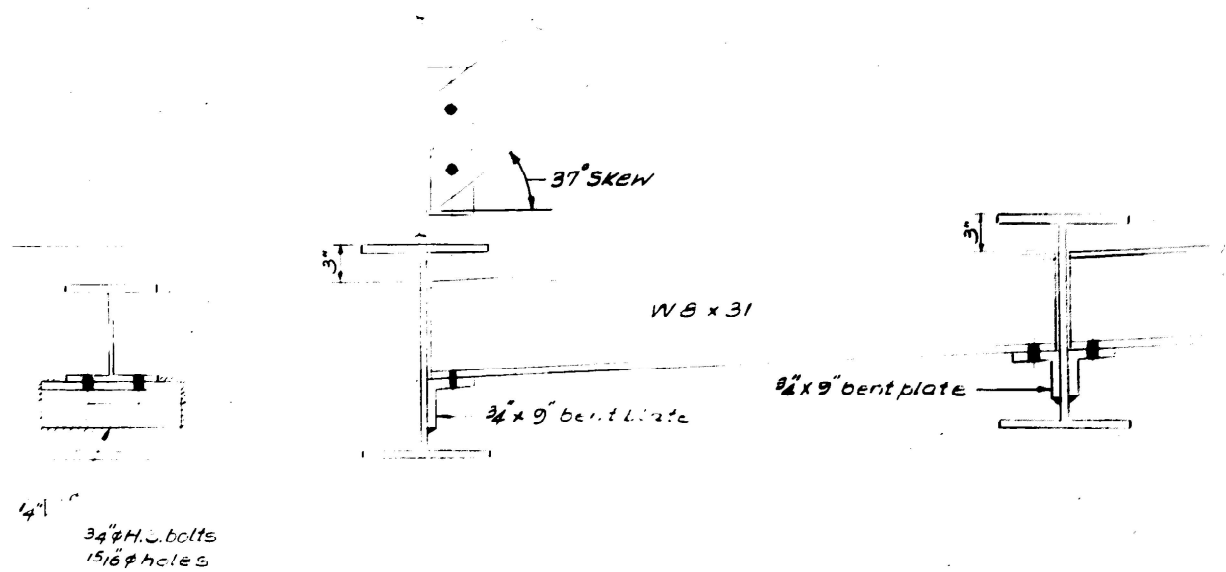
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

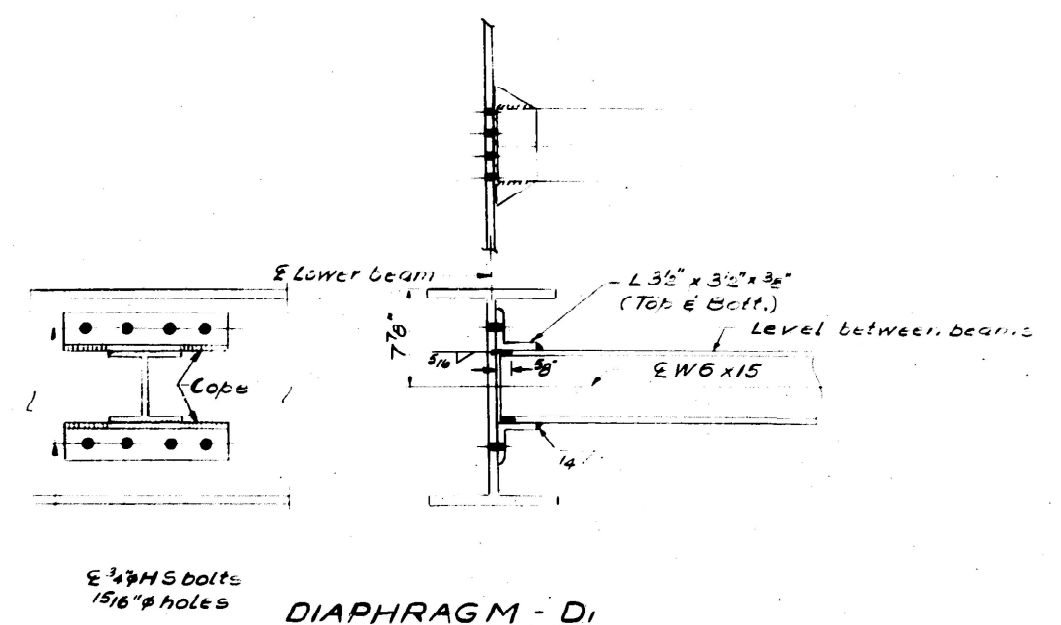
**FRAMING PLAN**  
**STRUCTURE NO. 016-0250**

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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1360	(21BZ-1-1213) BP 24	COOK	25	10
CONTRACT NO. 62X19				
ILLINOIS FED. AID PROJECT				



**DIAPHRAGM - D**  
(Required - 28)



**DIAPHRAGM - D1**  
(Required - 70)

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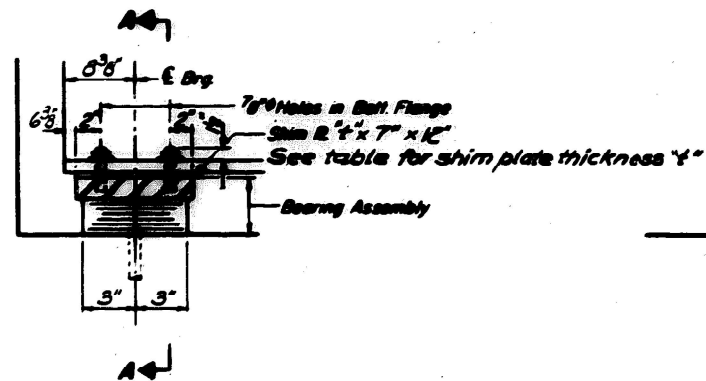
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PLOT DATE = 8/23/2024	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DIAPHRAGM DETAILS  
STRUCTURE NO. 016-0250**

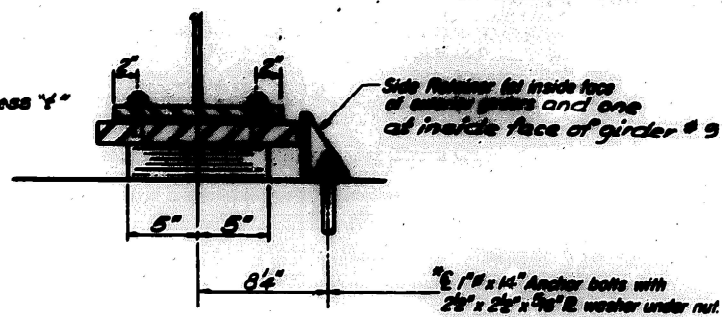
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62X19				
ILLINOIS FED. AID PROJECT				

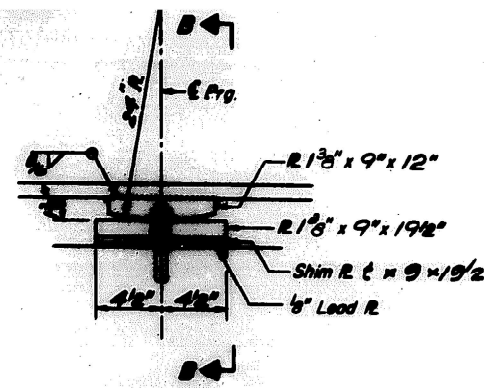


**SECTION AT ABUTS.**

**TYPE I ELASTOMERIC EXP. BRG.**

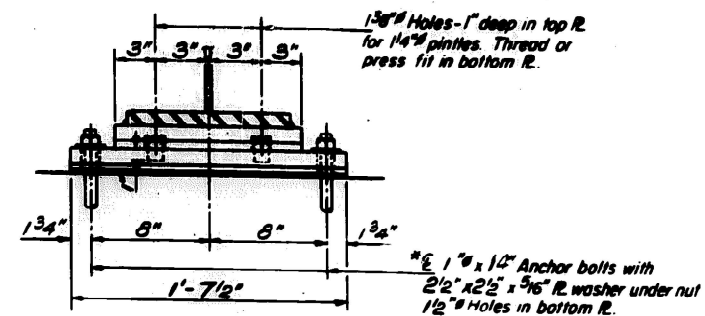


**SECTION A-A**

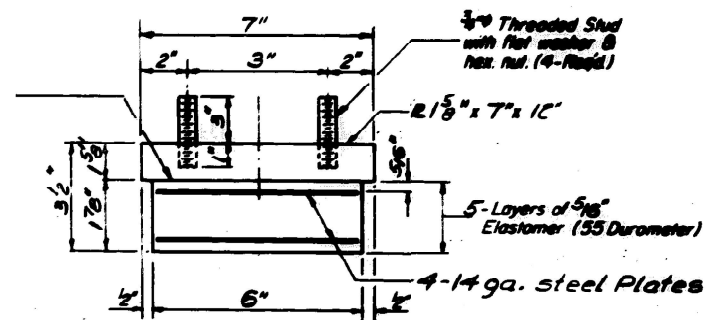


**ELEVATION AT PIER**

**FIXED BEARINGS**

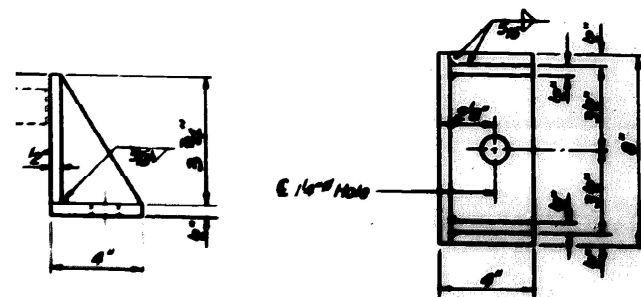


**SECTION B-B**



**BEARING ASSEMBLY**

Note Shim plates shall not be placed under Bearing Assembly.



**\*\* SIDE RETAINER - 6 Required**

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	DRAWN -	REVISED -
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PLOT DATE = 8/23/2024	DATE -	REVISED -

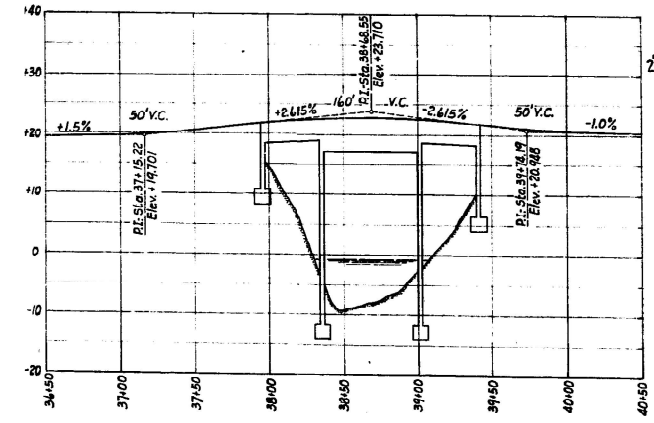
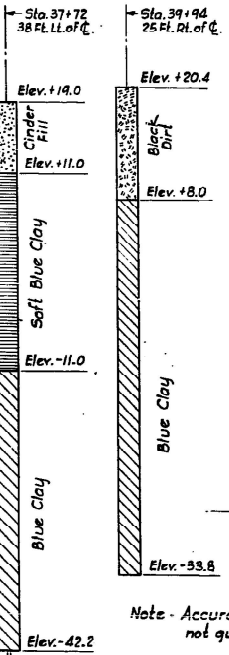
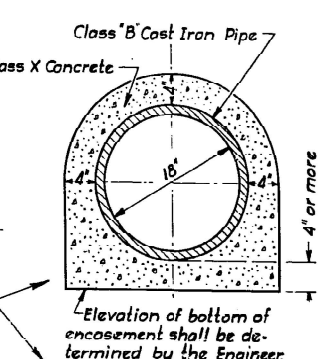
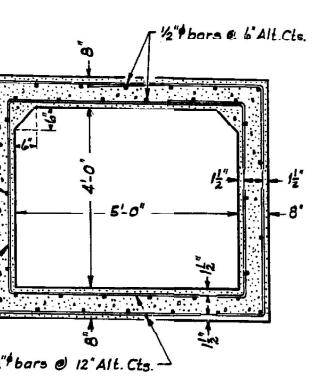
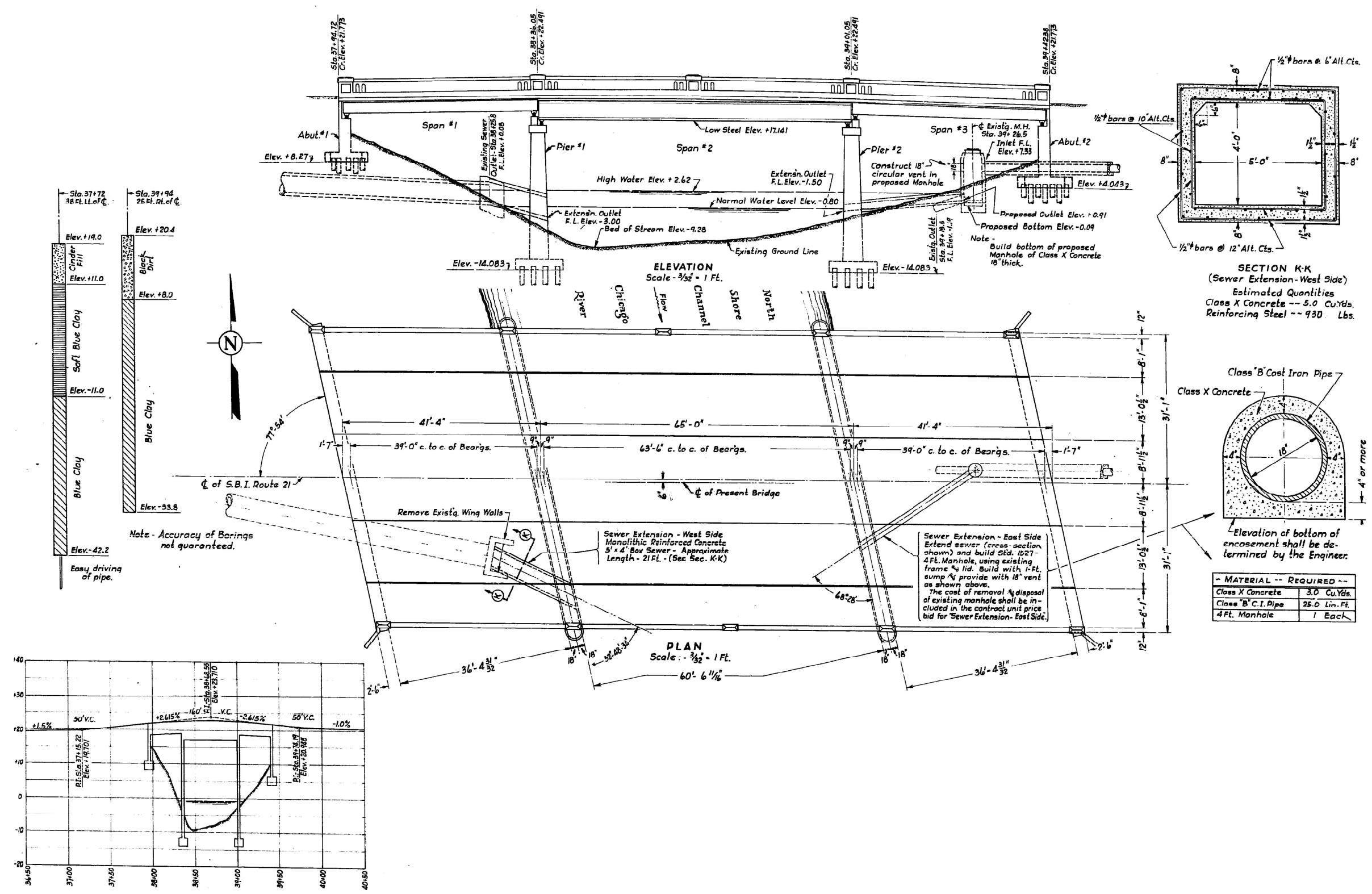
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**BEARING DETAILS  
STRUCTURE NO. 016-0250**

SCALE: SHEET 5 OF 5 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1360	(21BZ-1-1213) BP 24	COOK	25	12
CONTRACT NO. 62X19				
ILLINOIS FED. AID PROJECT				

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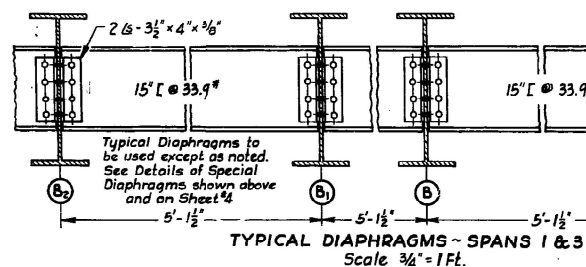
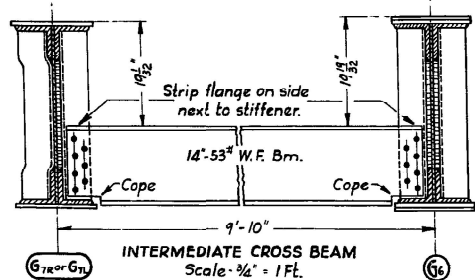
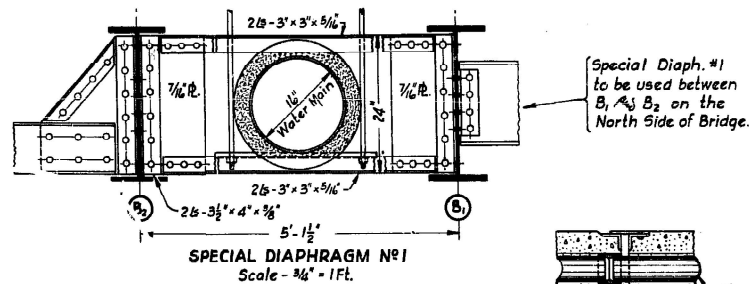
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**GENERAL PLAND AND ELEVATION**  
**STRUCTURE NO. 016-0251**

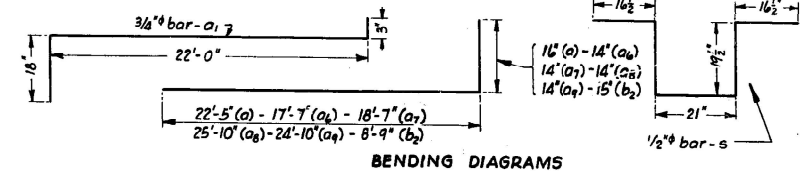
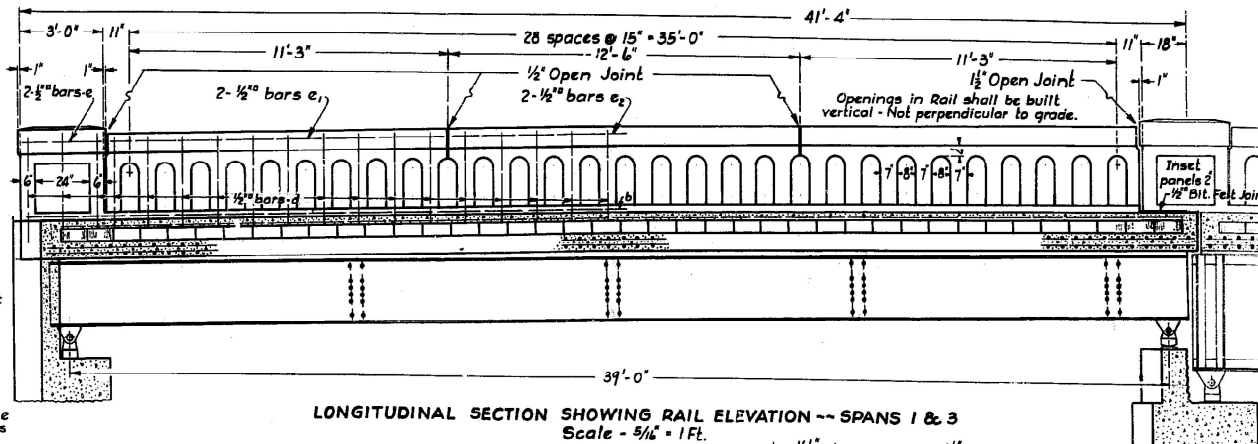
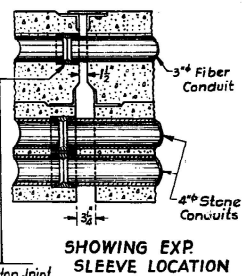
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	CHECKED -	REVISED -
PLOT DATE = 8/23/2024	DATE -	REVISED -

SCALE:	SHEET 1	OF 7	SHEETS	STA.	TO STA.
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1360	(21BZ-1-1213) BP 24	COOK	25	13
CONTRACT NO. 62X19				
ILLINOIS FED. AID PROJECT				



Special Diaph. #1 to be used between B<sub>1</sub>, B<sub>2</sub> on the North Side of Bridge.



**BILL OF MATERIAL SPANS 1 & 3**

Bar	No	Size	Length
a	344	3/4"	23'-9"
a <sub>1</sub>	344	3/4"	23'-9"
a <sub>2</sub>	40	3/4"	19'-9"
a <sub>3</sub>	36	3/4"	20'-9"
a <sub>4</sub>	40	3/4"	23'-9"
a <sub>5</sub>	36	3/4"	22'-9"
a <sub>6</sub>	40	3/4"	18'-9"
a <sub>7</sub>	36	3/4"	19'-9"
a <sub>8</sub>	40	3/4"	27'-0"
a <sub>9</sub>	36	3/4"	26'-0"
b	208	1/2"	21'-3"
b <sub>1</sub>	84	1/2"	9'-0"
b <sub>2</sub>	84	1/2"	10'-0"
d	132	1/2"	3'-9"
e	8	1/2"	3'-0"
e <sub>1</sub>	16	1/2"	11'-9"
e <sub>2</sub>	8	1/2"	12'-3"
s	56	1/2"	7'-9"

Class X Concrete - Cu.Yds.	163.9
Hand Rail Concrete - Cu.Yds.	16.4
Reinforcing Steel - Lbs.	40820
Structural Steel - Lbs.	180220
Iron Castings - Lbs.	14850
Wire Fabric - Sq.Ft.	1316
Hollow Floor or Wall Tile - Sq.Ft.	1148
Floor Drains - (3" Galv. W.I.) - Each	16
6" R.C.C. Pavement - Sq.Yds.	161.0
Coarse Sand - Cu.Yds.	45.0
Name Plate - Each	One
Floor Drains - (4"x6") - Each	20

Hollow Floor or Wall Tile --  
 North Sidewalk 6 Rows - 5' x 12' x 12'  
 1 Row - 5' x 8' x 12'  
 South Sidewalk 7 Rows - 5' x 12' x 12'  
 2 Row - 5' x 8' x 12'  
 Tile shall be given a heavy paint coat of asphalt before sidewalk is poured.

Note:-  
 The cost of installation of the following shall be absorbed in the bid items in the Contract for Route 21, Sec. 21C-N.R.M.4.  
 Fiber Conduits for the City of Chicago, Dept. of Streets & Electricity.  
 Stone Conduits & Exp. Sleeves for the Commonwealth Edison Co.  
 Inserts for Water Main for the City of Chicago, Water Pipe Ext. Div.  
 1" Rods & Hooks for Gas Main for the Peoples Gas Light & Coke Co.

2-3" Fiber Conduits, to be furnished by the City of Chicago, Dept. of Streets and Electricity, to be installed under the north sidewalk by the Contractor for Rt. 21, Sec. 21C-N.R.M.4

4-4" Stone Conduits and Exp. sleeves to be furnished by the Commonwealth Edison Co. and installed under the north sidewalk by the Contractor for Route 21 - Sect. 21C - N.R.M.4.  
 See cross section of conduit encasement on Sheet # 6

For Roadway Crown 16" drop per foot.

For Roadway Crown 1" drop on circular arc in first 10 feet.

Wire Fabric - No. 6 gage wire spaced 6" longitudinally & 6" transversely Weight - 42" per 100 Sq. Ft.

Street railway groove to be lined with 1/2" Bit Felt waterproofing covered by a 1" Grout layer.

Future Street Railway & Rdy.

1/2" Rods - 5' long spaced 10' along main

Inserts for 3/8" Rods, spaced 4 Ft. along length of pipe. Inserts to be furnished by the City of Chicago, Water Pipe Ext. Division, and installed under the north sidewalk by the Contractor for Rt. 21, Sec. 21C - N.R.M.4.

3" Galvanized W.I. Drains - 10' long on 2:15' O' Cts. To be plugged.

1/2" Rods & Hooks, spaced 10' along length of main, to be furnished by the Peoples Gas Light & Coke Co. and installed at above location south of the C of Roadway by the Contractor for Rt. 21, Sec. 21C, N.R.M.4. See detail showing hanger supports on Sheet # 4.

1/2" Rods & Hooks, spaced 10' along length of main, to be furnished by the Peoples Gas Light & Coke Co. and installed at above location south of the C of Roadway by the Contractor for Rt. 21, Sec. 21C, N.R.M.4. See detail showing hanger supports on Sheet # 4.

1/2" Rods & Hooks, spaced 10' along length of main, to be furnished by the Peoples Gas Light & Coke Co. and installed at above location south of the C of Roadway by the Contractor for Rt. 21, Sec. 21C, N.R.M.4. See detail showing hanger supports on Sheet # 4.

1/2" Rods & Hooks, spaced 10' along length of main, to be furnished by the Peoples Gas Light & Coke Co. and installed at above location south of the C of Roadway by the Contractor for Rt. 21, Sec. 21C, N.R.M.4. See detail showing hanger supports on Sheet # 4.

1/2" Rods & Hooks, spaced 10' along length of main, to be furnished by the Peoples Gas Light & Coke Co. and installed at above location south of the C of Roadway by the Contractor for Rt. 21, Sec. 21C, N.R.M.4. See detail showing hanger supports on Sheet # 4.

1/2" Rods & Hooks, spaced 10' along length of main, to be furnished by the Peoples Gas Light & Coke Co. and installed at above location south of the C of Roadway by the Contractor for Rt. 21, Sec. 21C, N.R.M.4. See detail showing hanger supports on Sheet # 4.

1/2" Rods & Hooks, spaced 10' along length of main, to be furnished by the Peoples Gas Light & Coke Co. and installed at above location south of the C of Roadway by the Contractor for Rt. 21, Sec. 21C, N.R.M.4. See detail showing hanger supports on Sheet # 4.

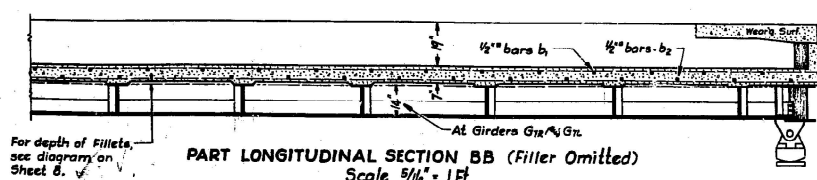
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1/2" Rods & Hooks, spaced 10' along length of main, to be furnished by the Peoples Gas Light & Coke Co. and installed at above location south of the C of Roadway by the Contractor for Rt. 21, Sec. 21C, N.R.M.4. See detail showing hanger supports on Sheet # 4.

1/2" Rods & Hooks, spaced 10' along length of main, to be furnished by the Peoples Gas Light & Coke Co. and installed at above location south of the C of Roadway by the Contractor for Rt. 21, Sec. 21C, N.R.M.4. See detail showing hanger supports on Sheet # 4.

1/2" Rods & Hooks, spaced 10' along length of main, to be furnished by the Peoples Gas Light & Coke Co. and installed at above location south of the C of Roadway by the Contractor for Rt. 21, Sec. 21C, N.R.M.4. See detail showing hanger supports on Sheet # 4.

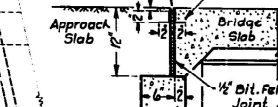
1/2" Rods & Hooks, spaced 10' along length of main, to be furnished by the Peoples Gas Light & Coke Co. and installed at above location south of the C of Roadway by the Contractor for Rt. 21, Sec. 21C, N.R.M.4. See detail showing hanger supports on Sheet # 4.



\* Does not include Exp. Guard

Class X Concrete shall be used throughout. Reinforcing Steel shall be wired securely in place before concrete is poured.

Note: to be filled with an approved grade of asphalt



SHOWING JOINT AT ABUT.

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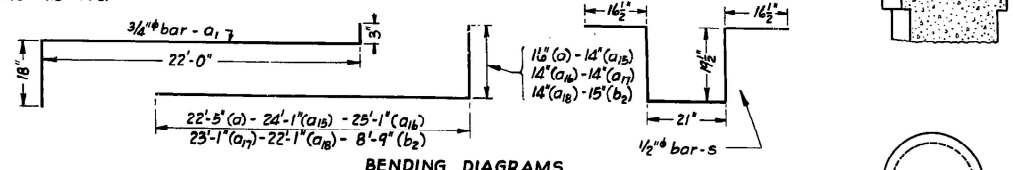
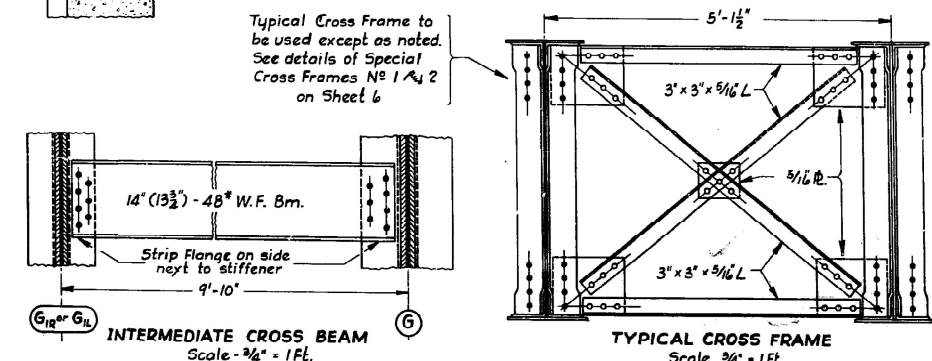
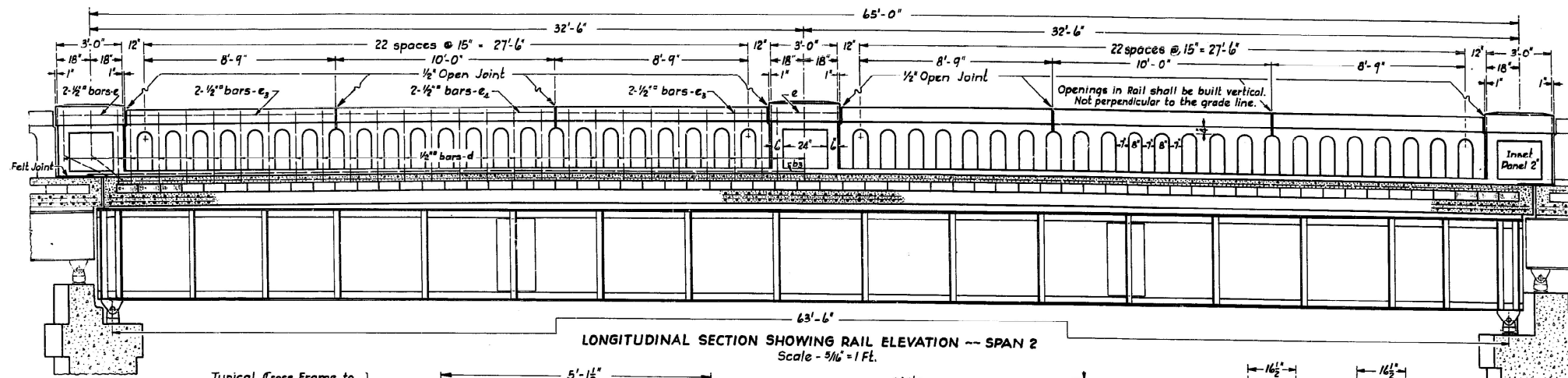
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

PLAN AND ELEVATION, SPANS 1&3  
 STRUCTURE NO. 016-0251

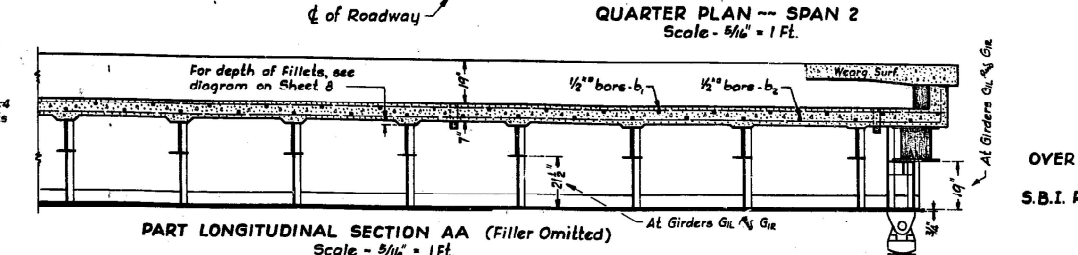
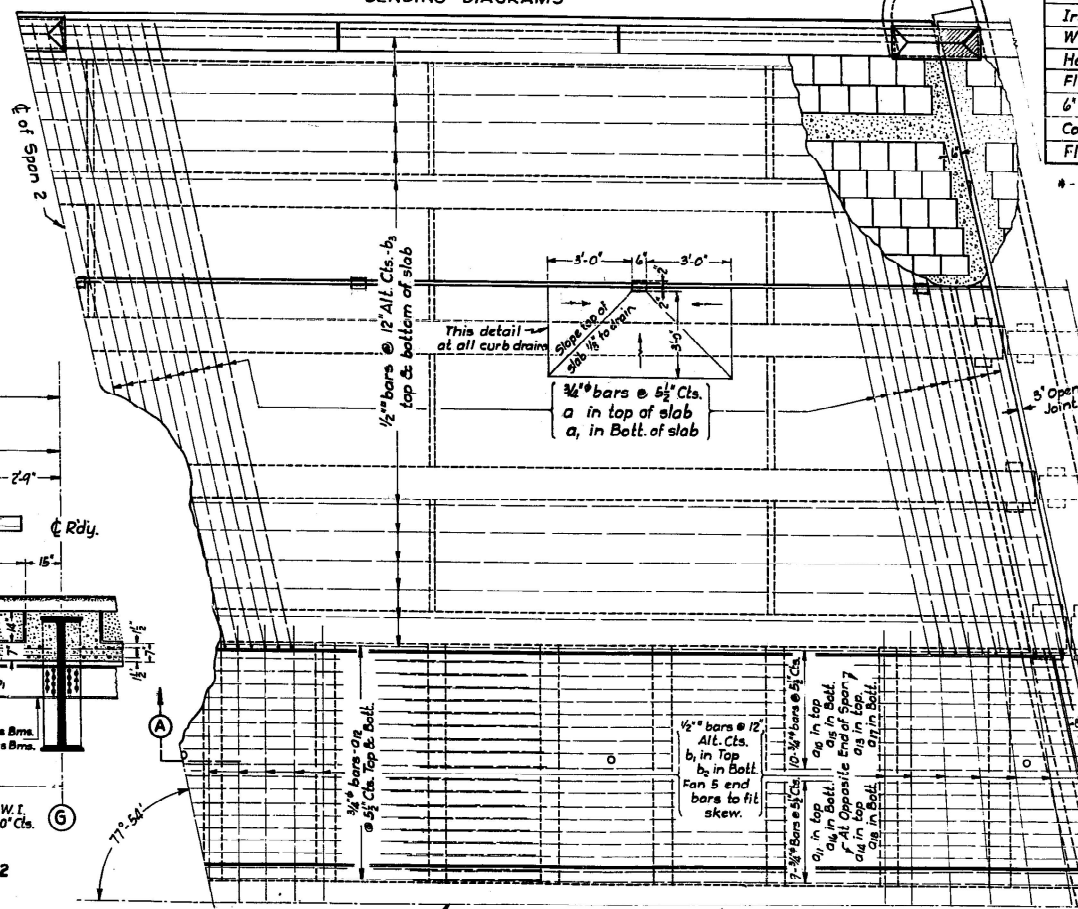
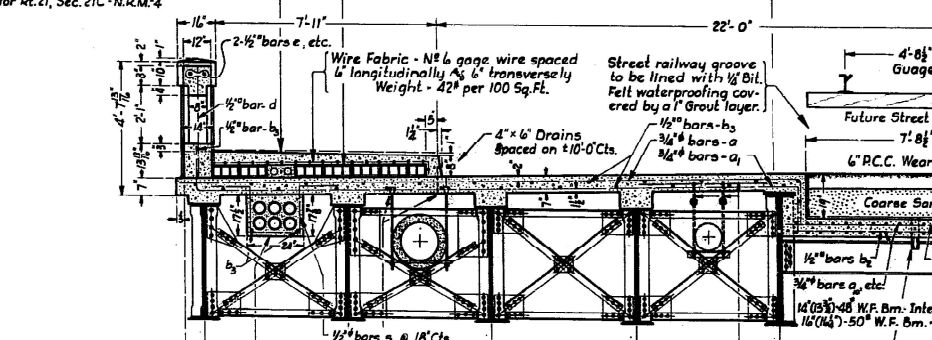
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1360	(21BZ-1-1213) BP 24	COOK	25	14

CONTRACT NO. 62X19  
 ILLINOIS FED. AID PROJECT



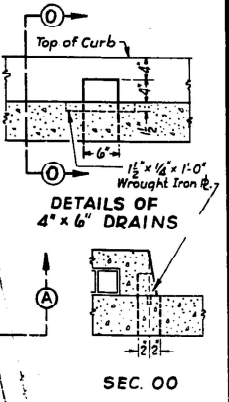
Note:--  
 The cost of installation of the following shall be absorbed in the bid items in the Contract for Route 21, Sec. 21C, N.R.M.-4.  
 Fiber Conduits for the City of Chicago, Dept. of Streets & Electricity.  
 Stone Conduits & Exp. Sleeves for the Commonwealth Edison Co.  
 Inserts for Water Main for the City of Chicago, Water Pipe Ext. Div.  
 1" Rods & Hooks for Gas Main for the Peoples Gas Light & Coke Co.



BILL OF MATERIAL SPAN 2			
Bar	N <sup>o</sup>	Size	Length
a	274	3/4"	23'-9"
a <sub>1</sub>	274	3/4"	23'-9"
a <sub>2</sub>	20	3/4"	22'-3"
a <sub>3</sub>	18	3/4"	23'-3"
a <sub>4</sub>	76	3/4"	22'-3"
a <sub>5</sub>	20	3/4"	25'-3"
a <sub>6</sub>	18	3/4"	24'-3"
a <sub>7</sub>	20	3/4"	25'-3"
a <sub>8</sub>	18	3/4"	23'-3"
b	66	1/2"	9'-0"
b <sub>2</sub>	64	1/2"	10'-0"
b <sub>3</sub>	156	1/2"	22'-9"
d	114	1/2"	3'-9"
e	12	1/2"	3'-0"
e <sub>3</sub>	16	1/2"	9'-3"
e <sub>4</sub>	8	1/2"	9'-9"
s	44	1/2"	7'-9"
Class X Concrete - Cu.Yds.			133.2
Hand Rail Concrete - Cu.Yds.			14.2
Reinforcing Steel - Lbs.			32500
Structural Steel - Lbs.			20100
Iron Castings - Lbs.			8900
Wire Fabric - Sq. Ft.			1044
Hollow Floor or Wall Tile - Sq. Ft.			913
Floor Drains - (3" Galv. W.I.) - Each			10
6" R.C.C. Pavement - Sq.Yds.			129.9
Coarse Sand - Cu.Yds.			35.9
Floor Drains - (4" x 6") - Each			14

\* - Does not include Exp. Guard

Class X Concrete shall be used throughout.  
 Reinforcing Steel shall be wired securely in place before concrete is poured.



6-4" Stone Conduits and Exp. sleeves to be furnished by the Commonwealth Edison Co. and installed under the north sidewalk by the Contractor for Route 21 - Sect. 21C - N.R.M.-4. -- See cross section of conduit encasement on Sheet # 6

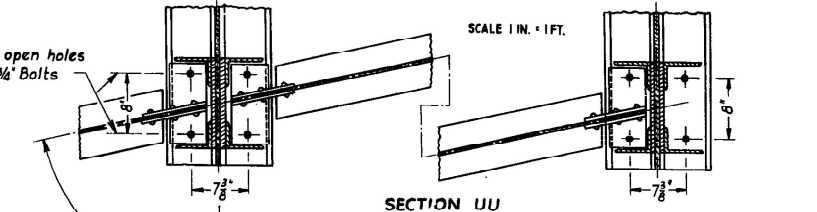
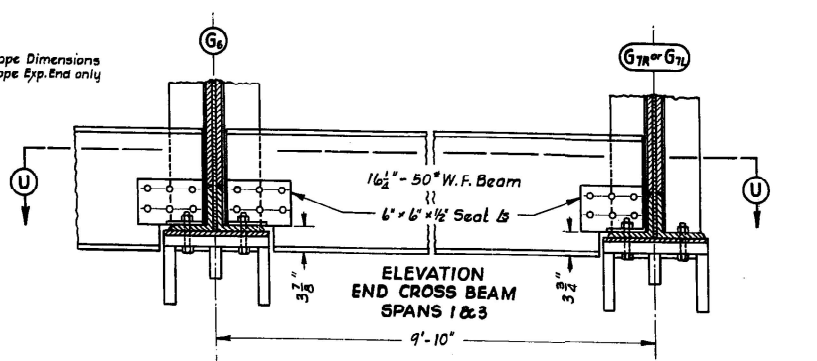
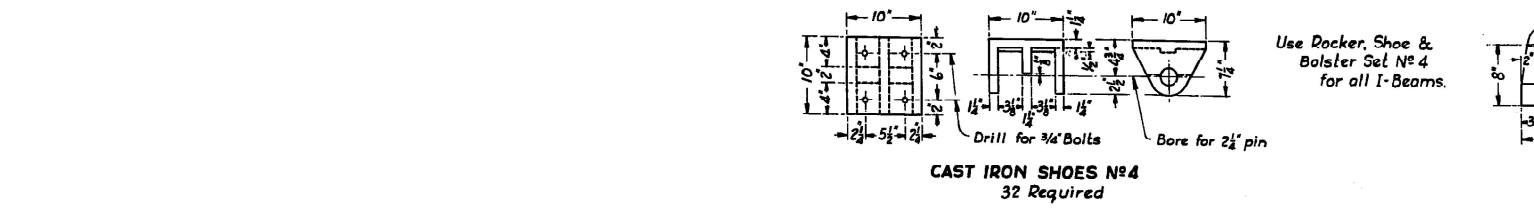
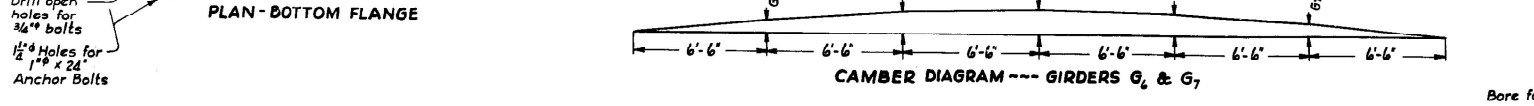
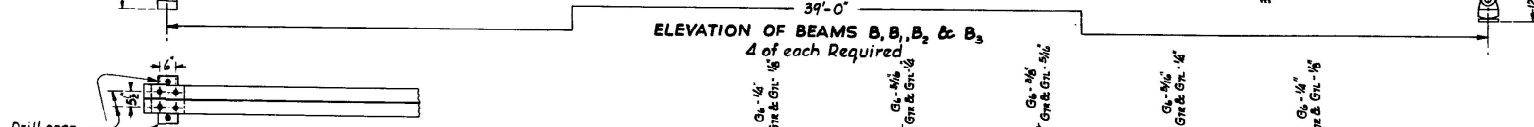
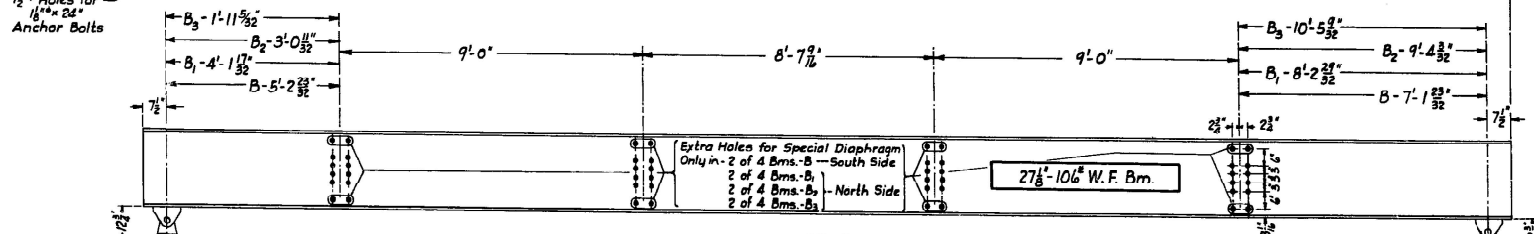
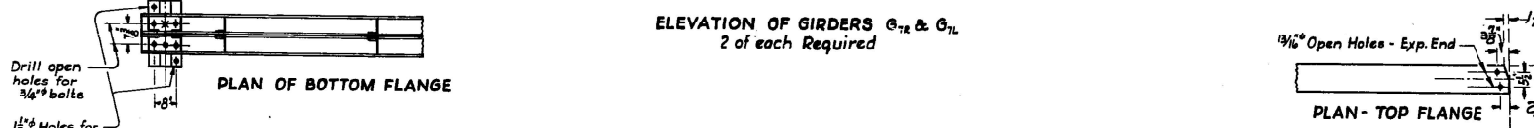
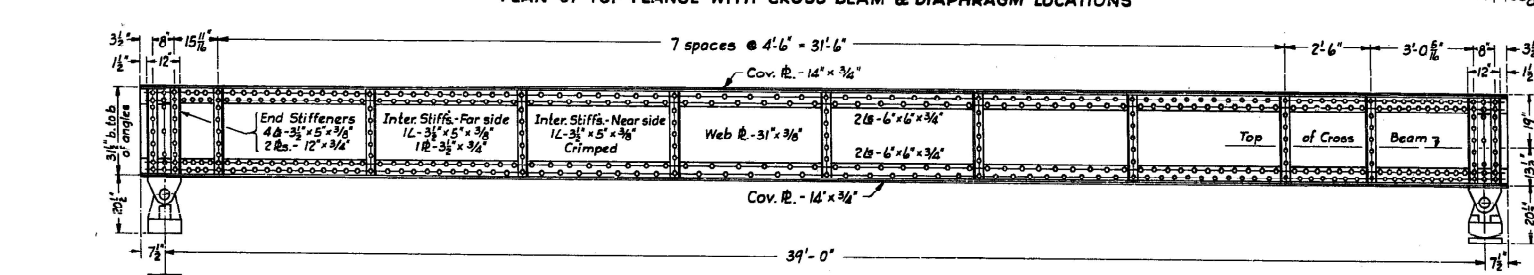
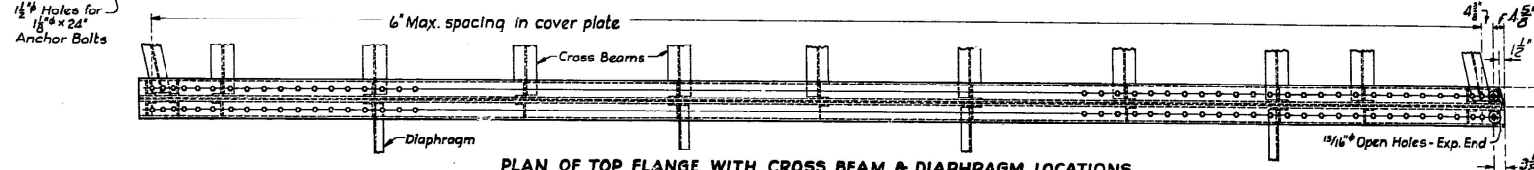
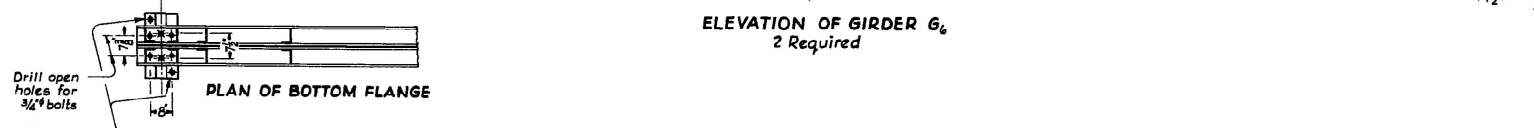
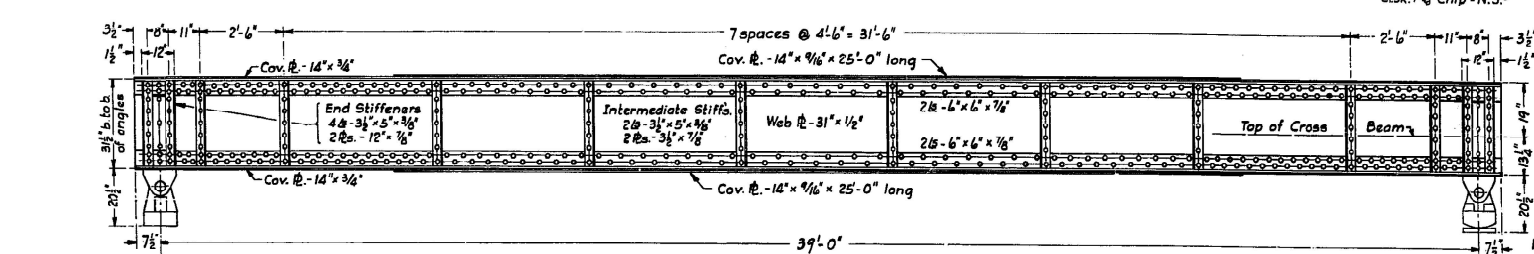
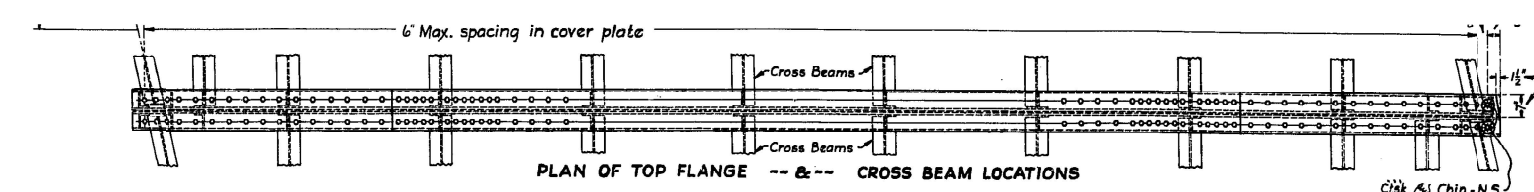
Inserts for 3/4" Rods, spaced 4 Ft. along length of pipe. Inserts to be furnished by the City of Chicago, Water Pipe Ext. Division and installed under the north sidewalk by the Contractor for Route 21, Sec. 21C - N.R.M.-4.

1" Rods & hooks, spaced 10' along length of main, to be furnished by the Peoples Gas Light & Coke Co. and installed south (shown north) of the C. of Roadway by the Contractor for Route 21, Sec. 21C, N.R.M.-4. See detail showing hanger supports on Sheet # 4

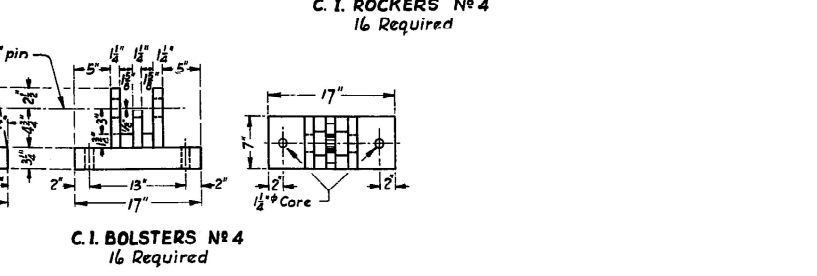
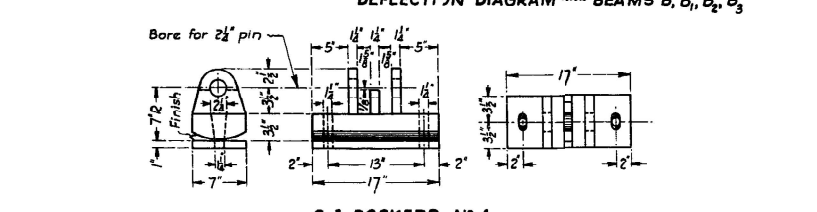
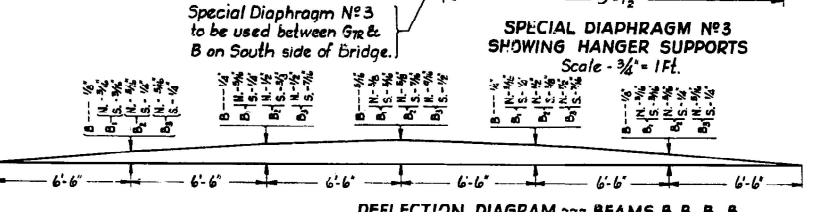
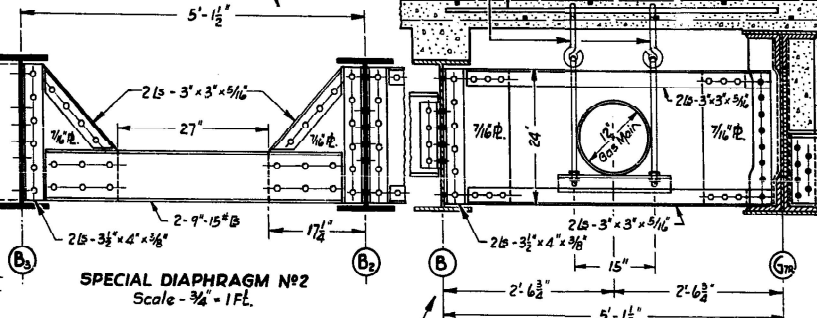
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 FOSTER AVE. BRIDGE  
 OVER NORTH SHORE CHANNEL  
 CHICAGO RIVER  
 S.B.I. ROUTE 21 --- SEC. 21C - N.R.M.-4  
 COOK COUNTY  
 STATION 38+68.55

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Baraa,Alsmadi	-	-			1360	(21BZ-1-1213) BP 24	COOK	25	15
PLOT DATE	DATE	REVISI		SCALE:	CONTRACT NO. 62X19				
8/23/2024	-	-		SHEET 3 OF 7 SHEETS STA. TO STA.	ILLINOIS FED. AID PROJECT				



SHOWING END CROSS BEAMS AND SEAT ANGLES -- SPANS 1 & 3



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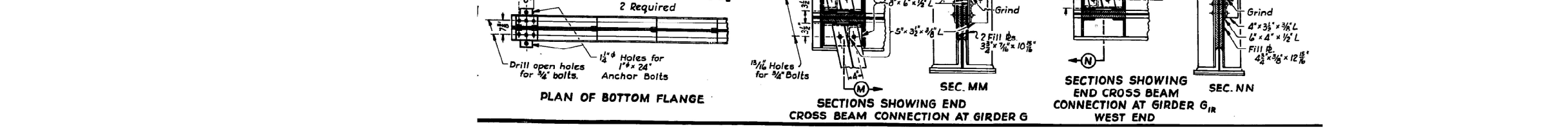
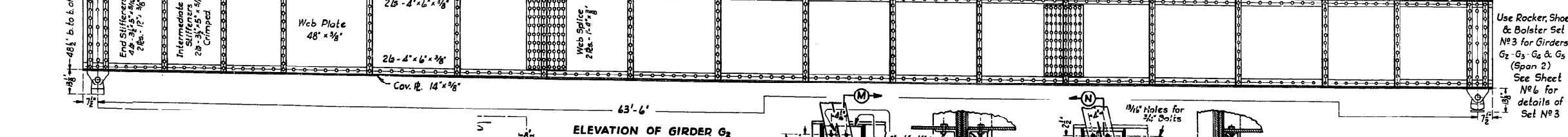
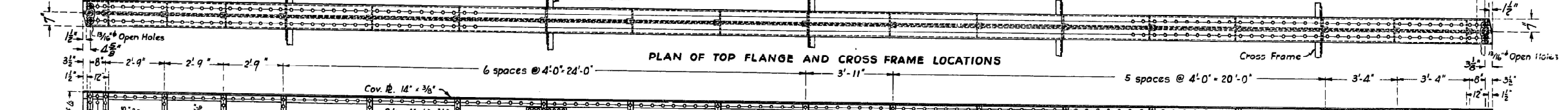
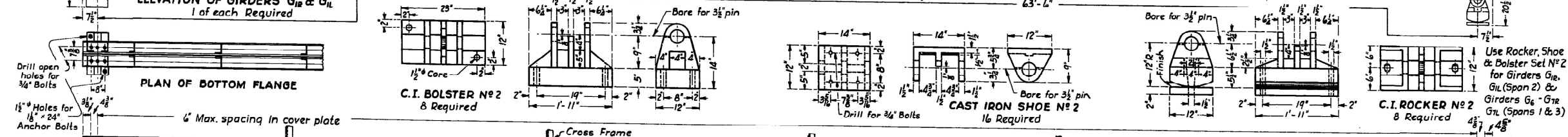
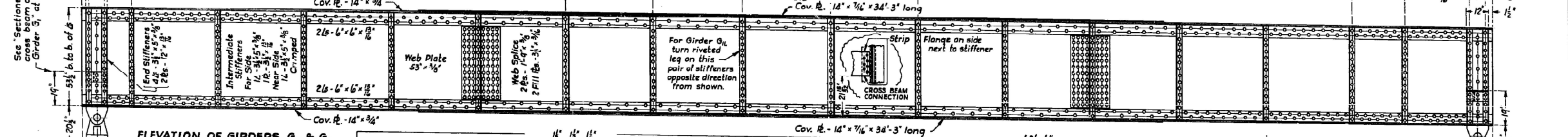
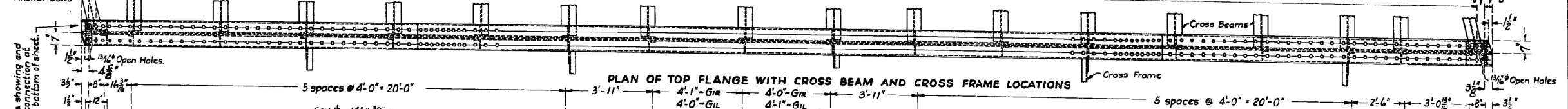
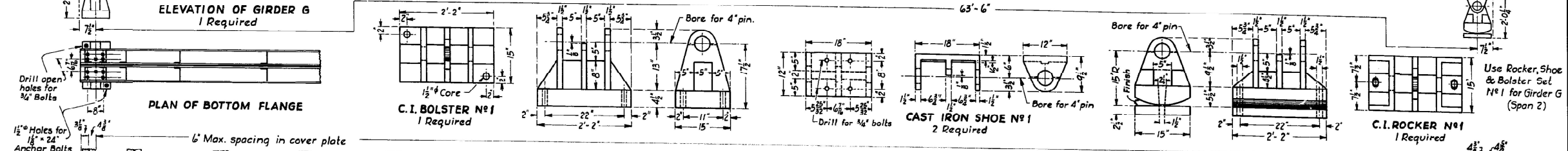
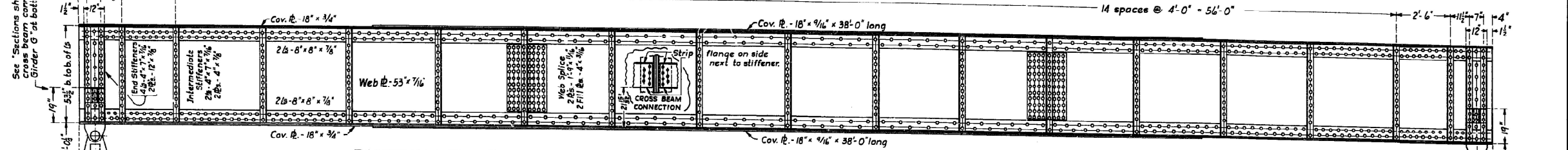
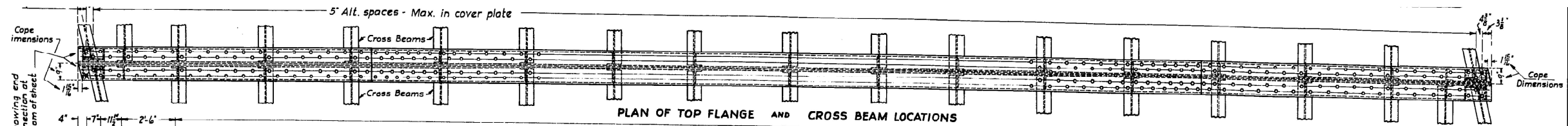
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**GIRDER PLAN AND ELEVATION  
STRUCTURE NO. 016-0251**

SCALE:	SHEET 4	OF 7 SHEETS	STA.	TO STA.
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1360	(21BZ-1-1213) BP 24	COOK	25	16
CONTRACT NO. 62X19			ILLINOIS FED. AID PROJECT	





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PLOT DATE	= 8/23/2024

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DATE	-

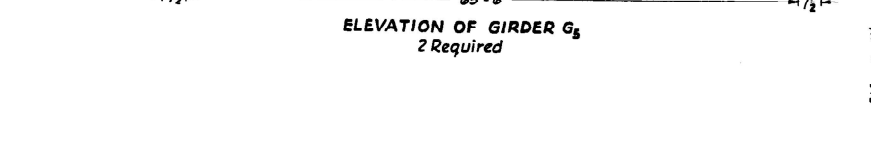
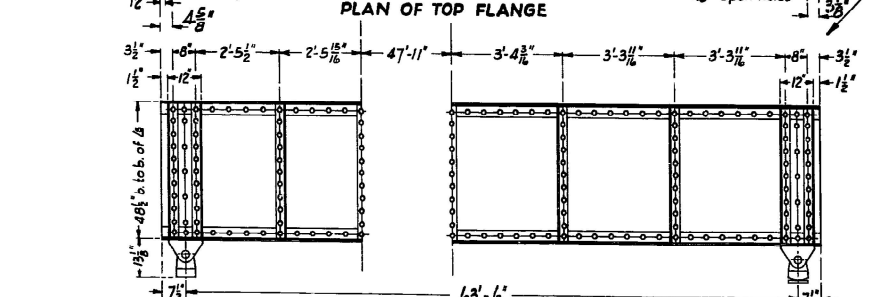
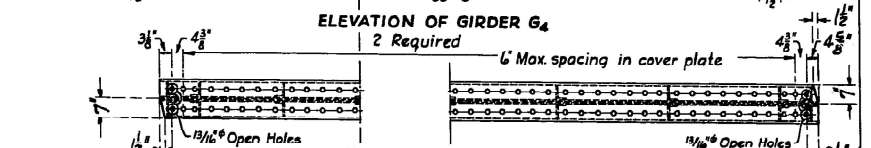
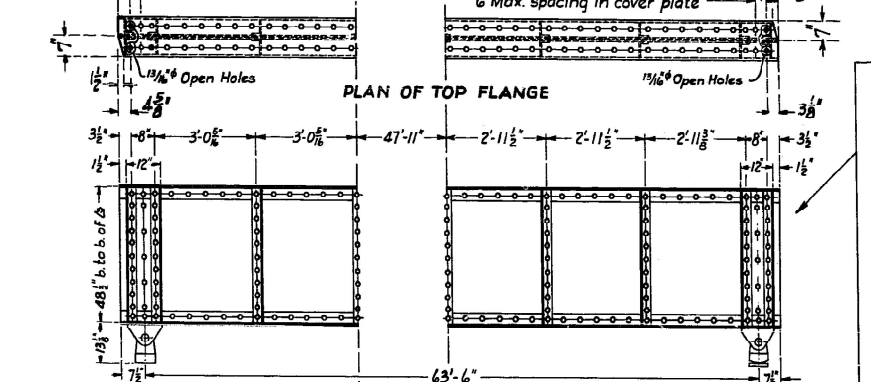
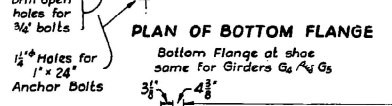
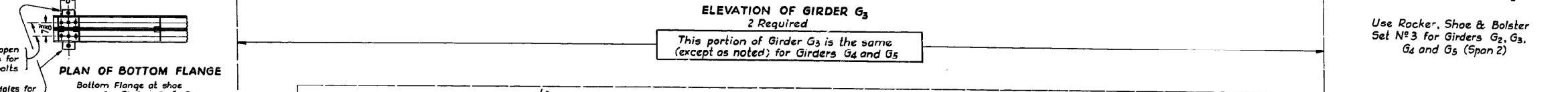
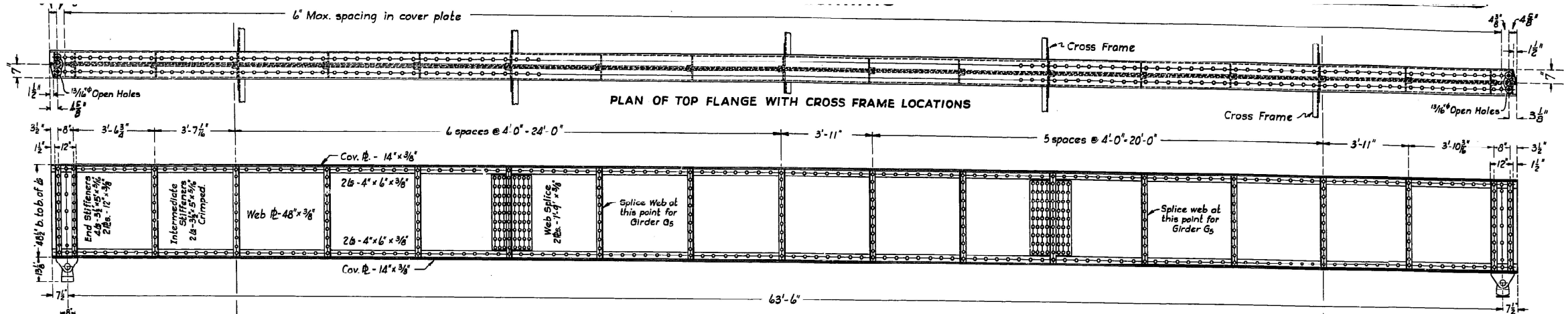
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

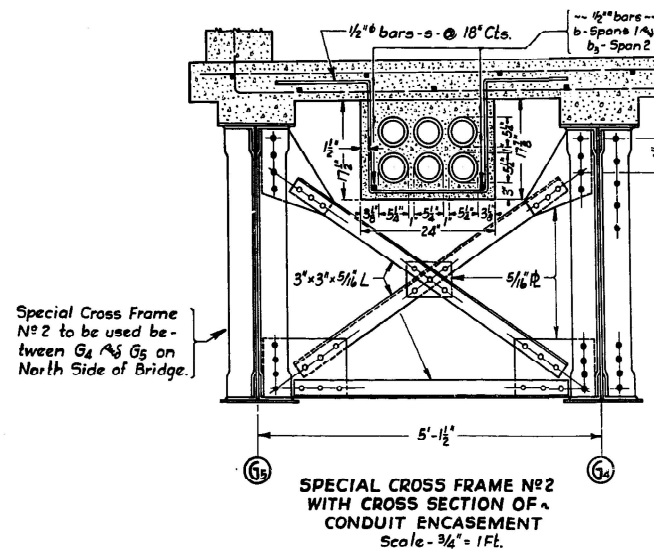
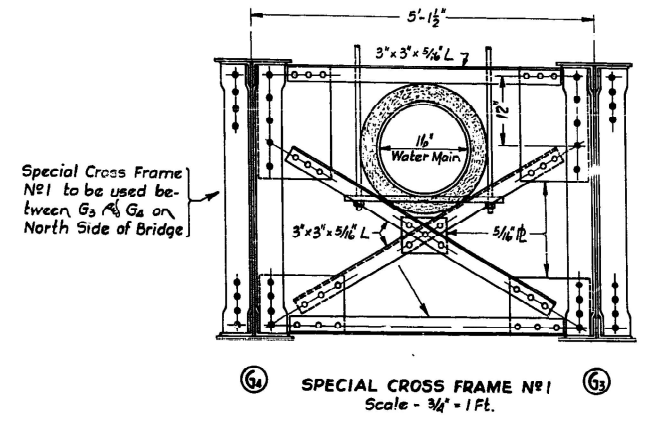
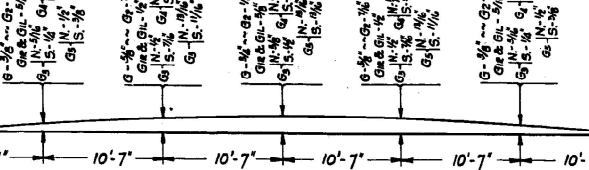
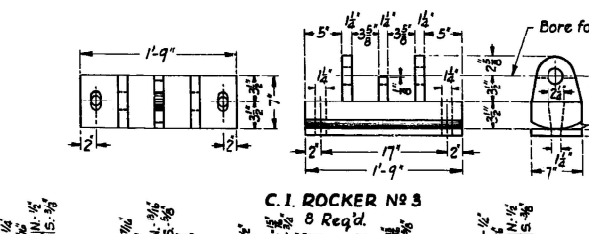
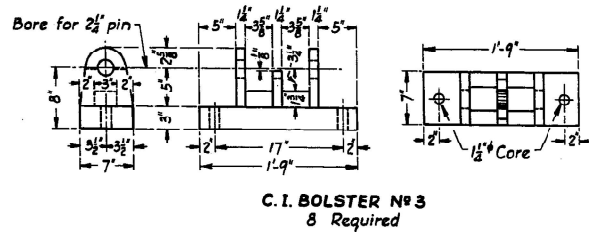
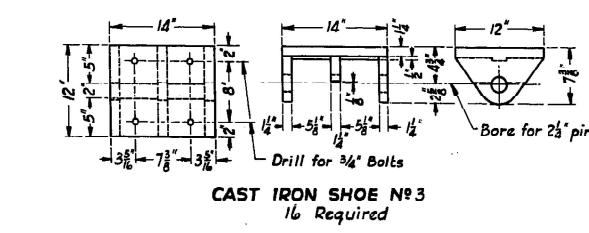
**PLAN WITH BEAM AND FRAME LOCATION  
STRUCTURE NO. 016-0251**

SCALE: SHEET 5 OF 7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1360	(21BZ-1-1213) BP 24	COOK	25	17
CONTRACT NO. 62X19				
ILLINOIS FED. AID PROJECT				



All parts used to make up Girders G4 and G5, are to be of the same size and description as those shown above for Girder G3.



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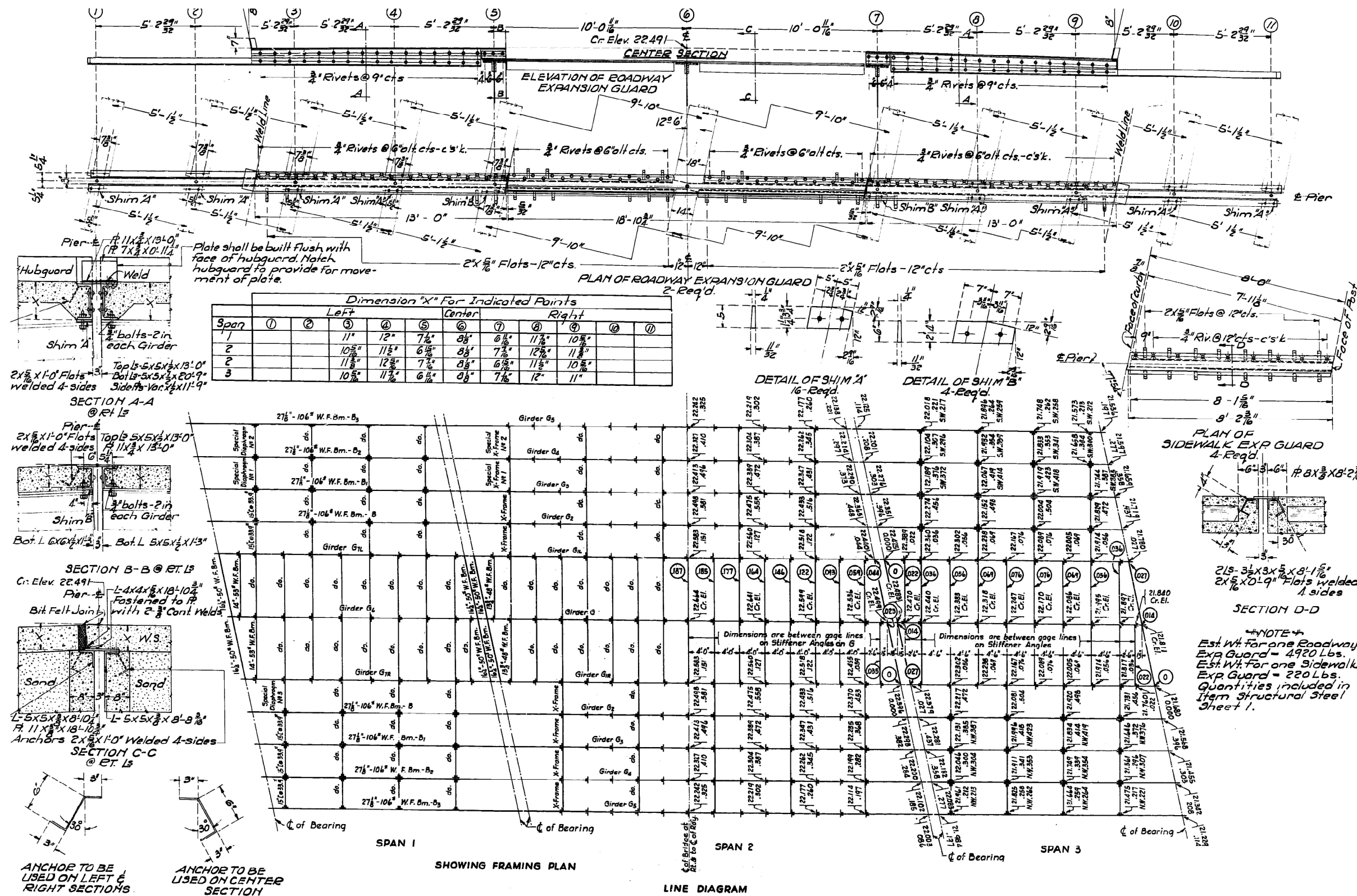
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PLOT DATE = 8/23/2024	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

GIRDER PLAN AND ELEVATION  
STRUCTURE NO. 016-0251

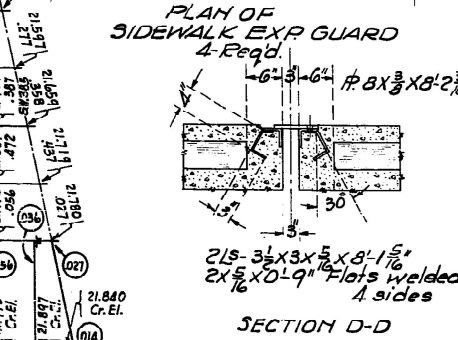
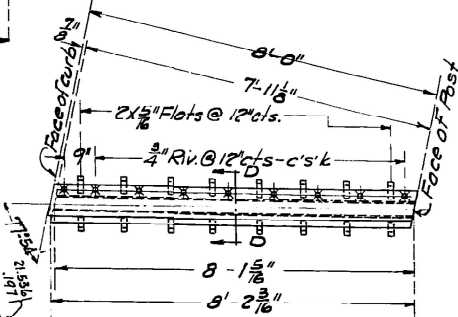
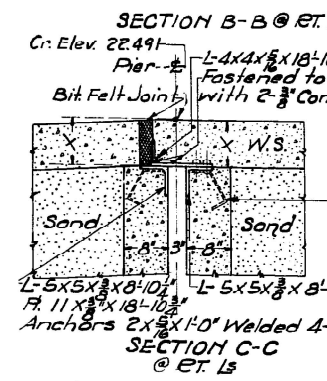
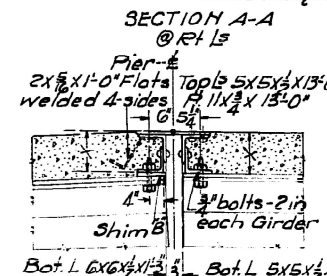
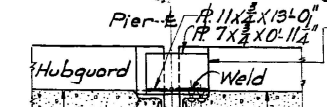
SCALE: SHEET 6 OF 7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1360	(21BZ-1-1213) BP 24	COOK	25	18
CONTRACT NO. 62X19				
ILLINOIS FED. AID PROJECT				



Dimension "X" For Indicated Points

Span	Left					Center	Right				
	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪
1			11"	12"	7 1/2"	8 1/2"	6 1/2"	11 1/2"	10 1/2"		
2			10 1/2"	11 1/2"	6 1/2"	8 1/2"	7 1/2"	12 1/2"	11 1/2"		
3			11 1/2"	12 1/2"	7 1/2"	8 1/2"	6 1/2"	11 1/2"	10 1/2"		



NOTE:  
 Est. Wt. for one Roadway Exp. Guard = 4920 Lbs.  
 Est. Wt. for one Sidewalk Exp. Guard = 220 Lbs.  
 Quantities included in Item Structural Steel Sheet 1.

ANCHOR TO BE USED ON LEFT & RIGHT SECTIONS

ANCHOR TO BE USED ON CENTER SECTION

SPAN 1  
 SHOWING FRAMING PLAN

SPAN 2  
 LINE DIAGRAM

SPAN 3

MODEL: 016-0251 SHT 07 (Sheet) FILE NAME: c:\p\work\016-0251\016-0251-sht-plan.dgn

USER NAME = Baraa.Alsamdi  
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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

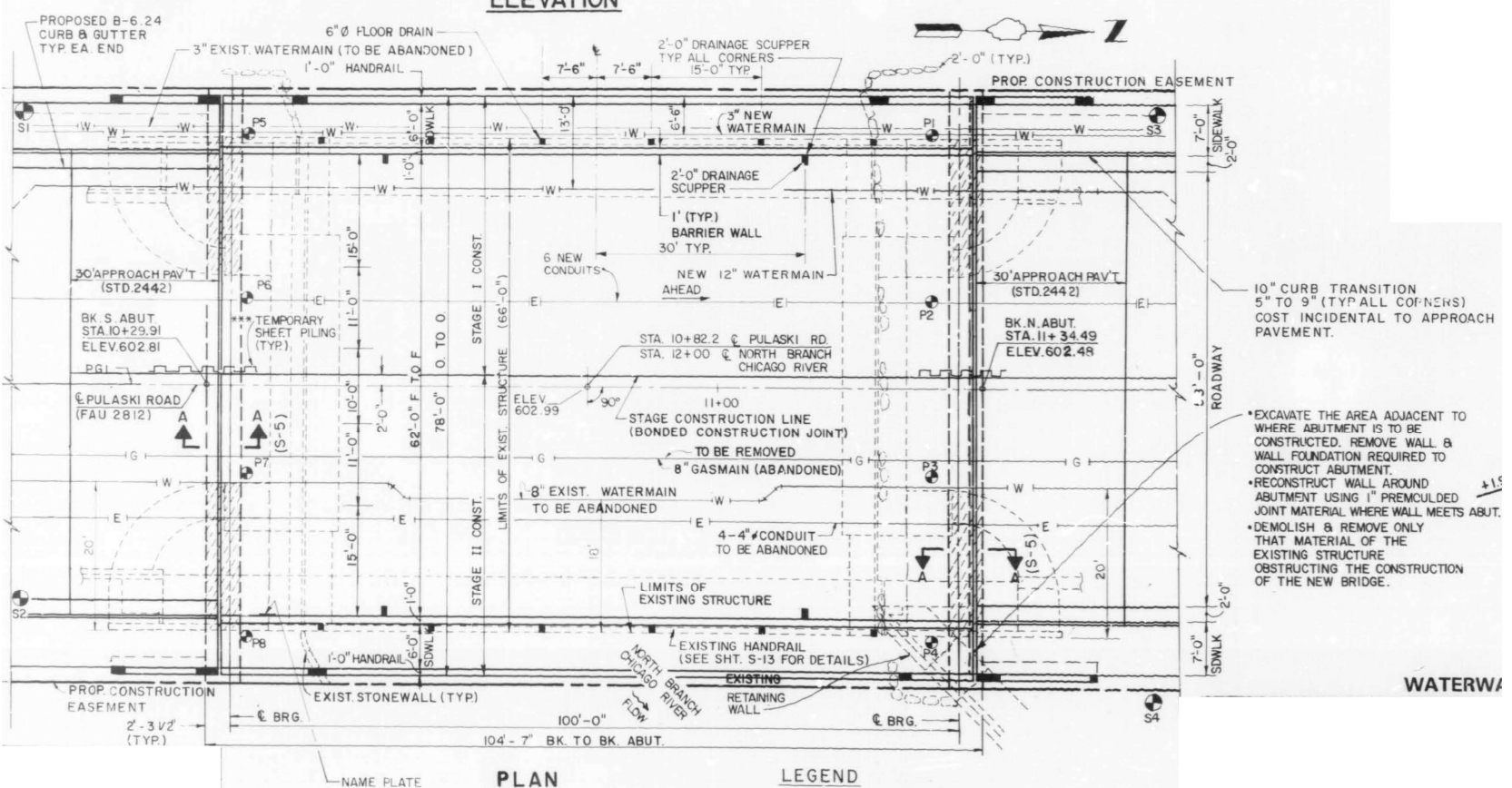
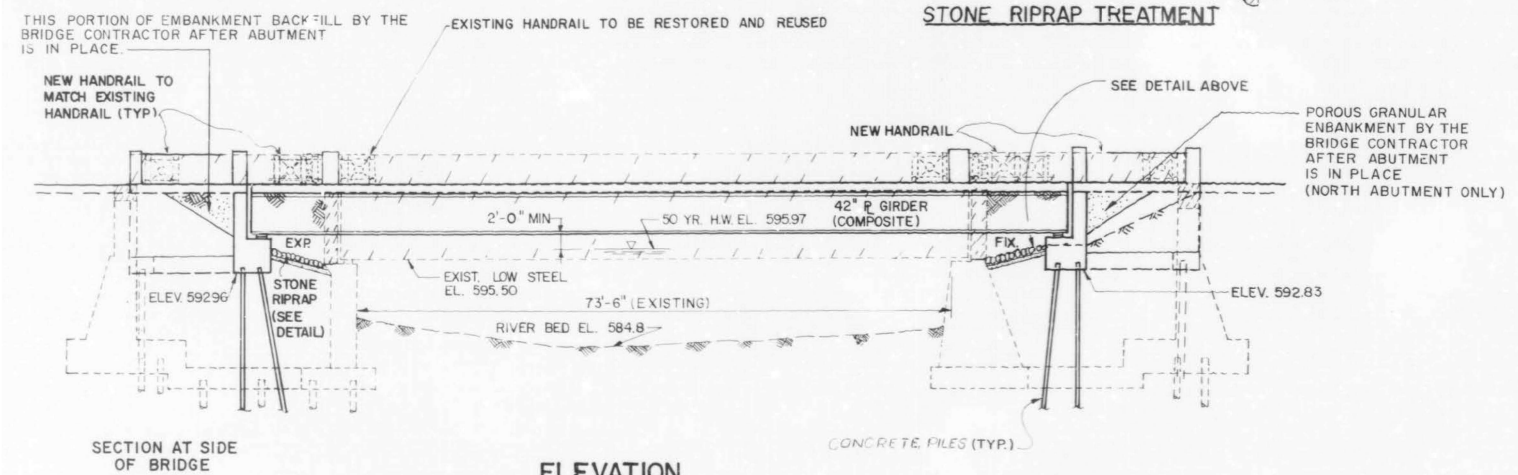
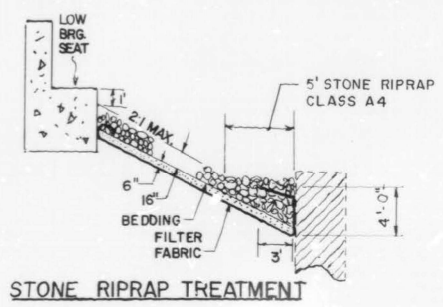
FRAMING PLAN  
 STRUCTURE NO. 016-0251

SCALE: SHEET 7 OF 7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1360	(21BZ-1-1213) BP 24	COOK	25	19
CONTRACT NO. 62X19				
ILLINOIS FED. AID PROJECT				

**BENCHMARK:**  
 TBM-1 CHISELLED '□' ON CONCRETE RAIL AT SOUTHEAST CORNER OF FOSTER AVE. BRIDGE OVER THE NORTH BRANCH OF CHICAGO RIVER, WEST OF PULASKI ROAD ELEV. 601.20.  
 TBM-4 CHISELLED '□' ON CONCRETE WALL AT STA. 14+00, RT PULASKI ROAD ELEV. 599.25.

**EXISTING STRUCTURE:**  
 PULASKI ROAD (FAU 2821) BRIDGE OVER THE NORTH BRANCH OF THE CHICAGO RIVER IS A SINGLE SPAN PLATE GIRDER TYPE OF STRUCTURE BUILT IN 1913 AND WIDENED IN 1925 & 1941. IT CARRIES 4 LANES OF DUAL DIRECTIONAL TRAFFIC. THE LENGTH OF THE BRIDGE IS APPROXIMATELY 79' WITH A ROADWAY WIDTH OF 51'. TOTAL OUT TO OUT OF STRUCTURE IS 66'-0". SUBSTRUCTURE CONSISTS OF CONCRETE CLOSED ABUTMENTS, AND SUPERSTRUCTURE CONSISTS OF STEEL GIRDERS & BEAMS & CONCRETE DECK.  
 PART OF SUPERSTRUCTURE AND PORTION OF SUBSTRUCTURE SHALL BE REMOVED. PART OF EXISTING ABUTMENTS SHALL BE MAINTAINED AND SHALL BE USED AS RETAINING WALL. NEW PILE BENT ABUTMENTS SHALL BE BUILT BEHIND EXISTING ABUTMENTS.  
 TRAFFIC TO BE MAINTAINED UTILIZING STAGED CONSTRUCTION.  
 NO SALVAGE, EXCEPT FOR STEEL HANDRAIL.



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PLOT DATE = 8/23/2024	DATE -	REVISED -

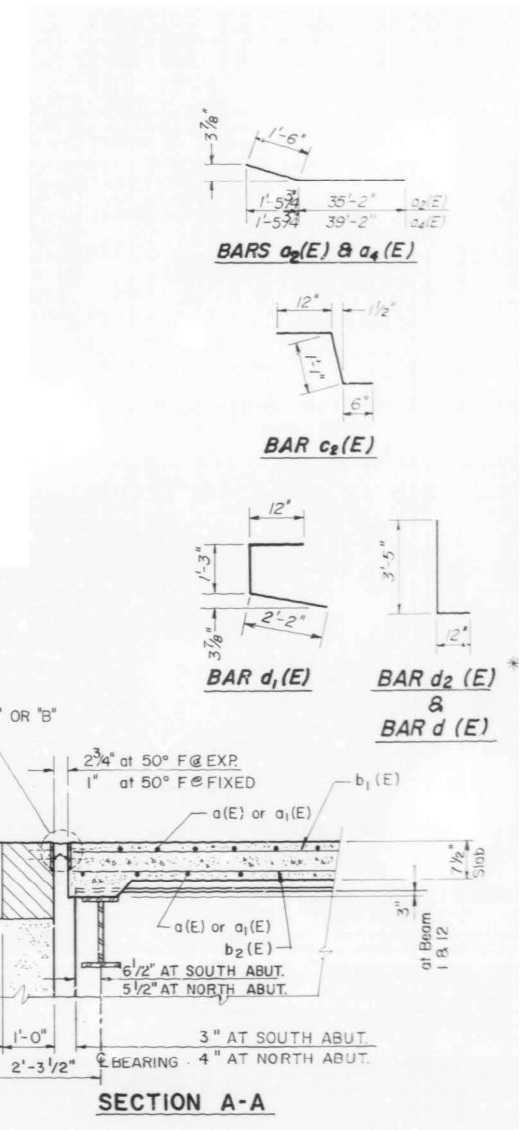
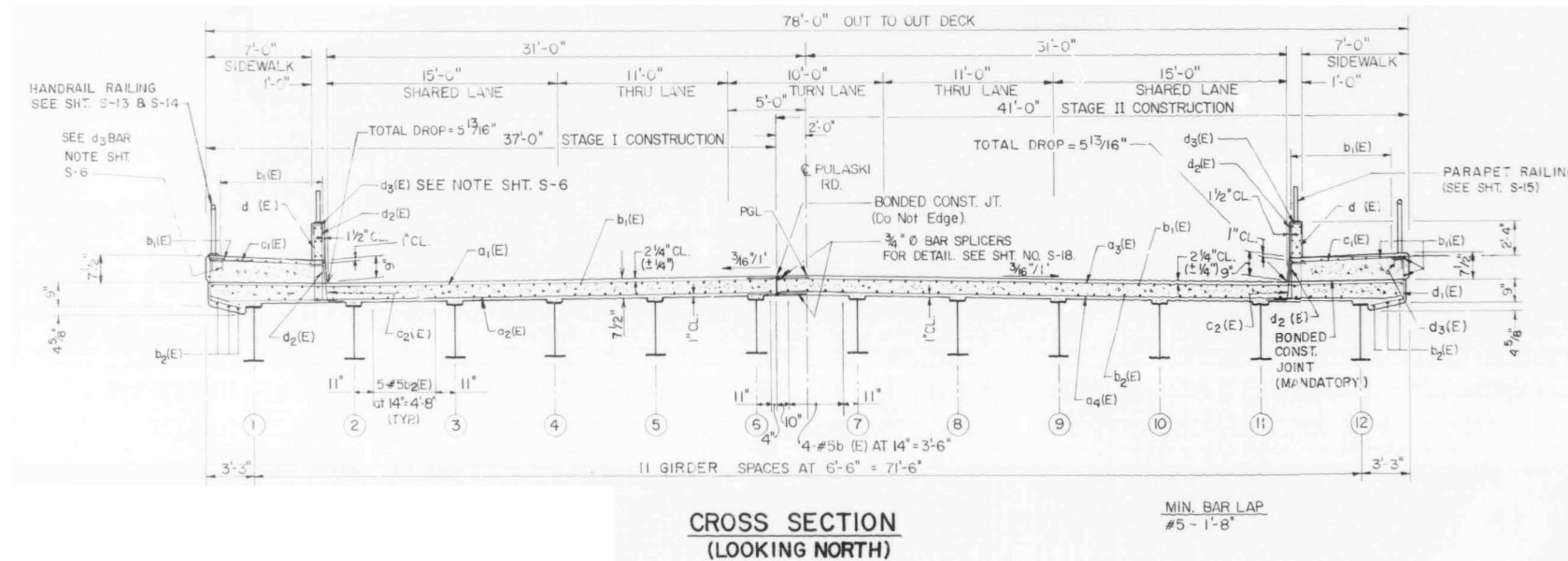
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**GENERAL PLAN AND ELEVATION**  
**STRUCTURE NO. 016-2612**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1360	(21BZ-1-1213) BP 24	COOK	25	20
CONTRACT NO. 62X19				
ILLINOIS FED. AID PROJECT				

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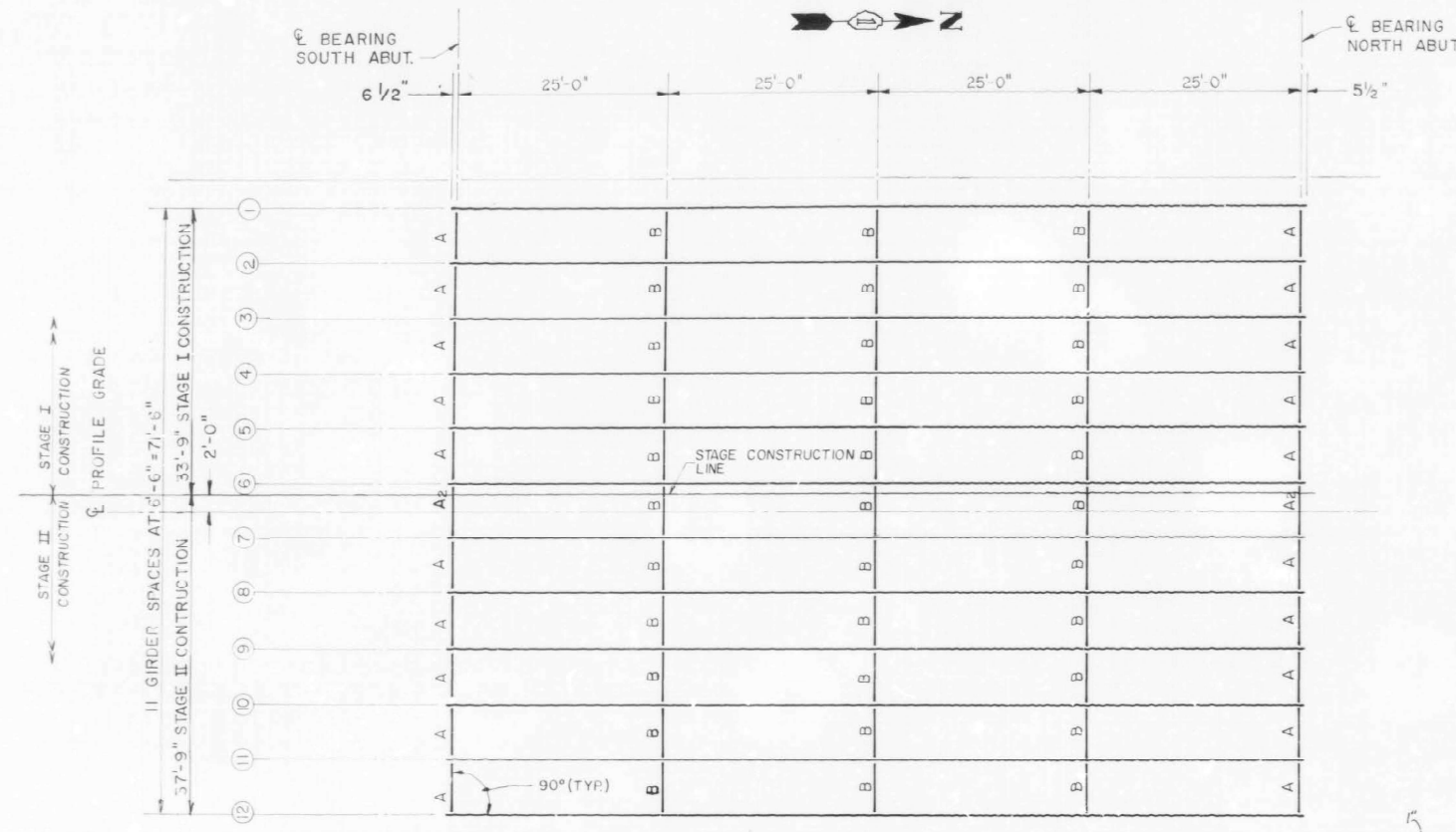
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CORSS SECTION  
 STRUCTURE NO. 016-2612**

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PLOT DATE = 8/23/2024	DATE -	REVISED -

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1360	(21BZ-1-1213) BP 24	COOK	25	21
CONTRACT NO. 62X19				
ILLINOIS FED. AID PROJECT				



**DEFINITIONS**

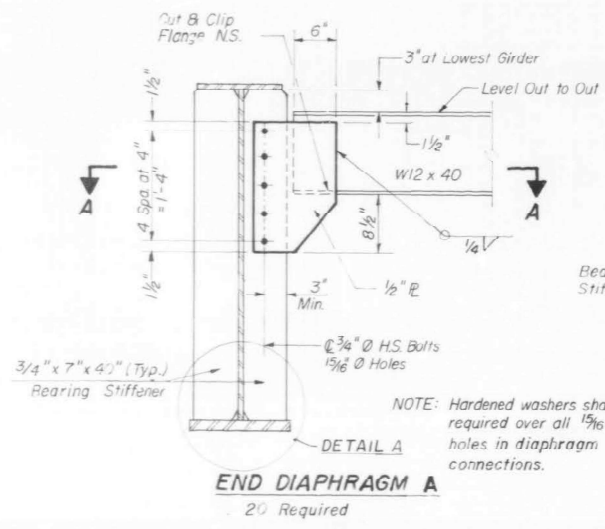
- $I_s$  is the moment of inertia & section modulus of the steel section used in computing  $f$  (Total & Overload).
- $I_{c(s)}$  is the moment of inertia & section modulus of the composite section used in computing stresses due to live load.
- $I_{c(sdl)}$  is the moment of inertia & section modulus of the composite section used in computing stresses due to superimposed dead load (see AASHTO 10.38).
- $S_s$  is the moment of inertia & section modulus of the steel section used in computing  $f$  (Total & Overload).
- $S_{c(s)}$  is the moment of inertia & section modulus of the composite section used in computing stresses due to live load.
- $S_{c(sdl)}$  is the moment of inertia & section modulus of the composite section used in computing stresses due to superimposed dead load (see AASHTO 10.38).
- $Z$  is the plastic section modulus used to determine the Fully Plastic Moments in the non-composite areas.
- $Q$  is the Dead Load.
- $M_Q$  is the Moment due to dead loads on non-composite section.
- $s_Q$  is the Dead Load per Foot.
- $M_L$  is the Moment due to dead loads on composite section.
- $M_L$  is the Moment due to live load on non-composite or composite section.
- $M_{imp}$  is Moment due to impact.
- $M_a$  is the Applied Moment =  $1.3 (M_Q + M_L + \frac{5}{3} (M_L + M_{imp}))$ .
- $M_p$  Plastic Moment capacity is computed according to AASHTO 10.48.1 & 10.50.1.1.
- $f_s(\text{total})$  Sum of stresses due to  $1.3 (M_Q + M_L + \frac{5}{3} (M_L + M_{imp}))$ .
- $f_s(\text{overload})$  Sum of stresses due to  $M_Q + M_L + \frac{5}{3} (M_L + M_{imp})$ .
- $V_R$  Maximum live load + impact shear range in span

INTERIOR GIRDER MOMENT TABLE	
	0.5 SPI
$I_s$ (in <sup>4</sup> )	16320
$I_{c(s)}$ (in <sup>4</sup> )	42507
$I_{c(sdl)}$ (in <sup>4</sup> )	29990
$S_s$ (in <sup>3</sup> )	932
$S_{c(s)}$ (in <sup>3</sup> )	1261
$S_{c(sdl)}$ (in <sup>3</sup> )	1154
$Z$ (in <sup>3</sup> )	—
$Q$ (K/ft)	.83
$M_Q$ (K)	1038
$s_Q$ (K/ft)	.35
$M_L$ (K)	440
$M_L$ (K)	973
$M_{imp}$ (K)	198
$S_3(M_L + I)$ (K)	1352
$M_a$ (K)	4459
$M_p$ (K)	—
$f_s$ non-comp (ksi)	13.4
$f_s$ (comp) (ksi)	4.2
$f_s(\frac{5}{3}(L+I))$ (ksi)	18.8
$f_s(\text{Overload})$ (ksi)	35.4
$f_s(\text{Total})$ (ksi)	47.3
$V_R$ (K)	47.2

INTERIOR GIRDER REACTION TABLE	
	Abut.
$R_Q$ (K)	58.0
$R_L$ (K)	41.3
$Imp$ (K)	8.6
$R_{Total}$ (K)	107.9

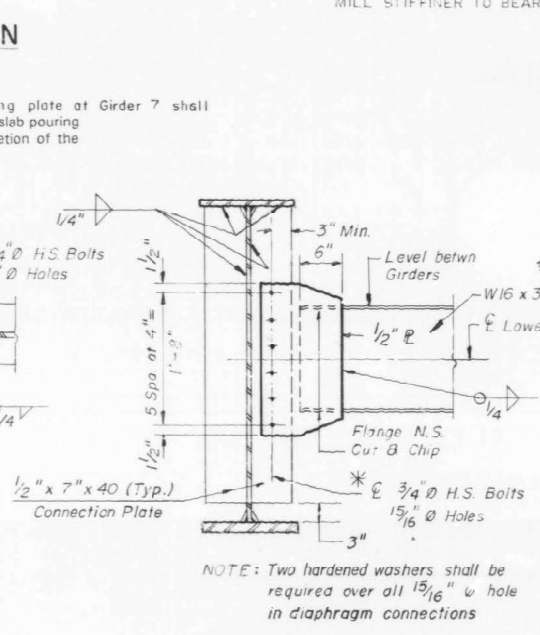
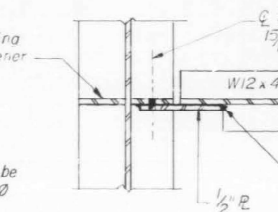
**DIAPHRAGM A2 CONSTRUCTION SEQUENCE**

- Order Diaphragm A2 in two sections with lengths of 4'-6" and 2'-0"
- Attach section (1) of Diaphragm to Girder 6 and top flange splice plate during Stage I Construction.
- Place Timber Block Posts between section (1) of diaphragm and abutment bearing seat.
- Attach section (2) of diaphragm to both Girder 7 and top flange splice plate during Stage II Construction.
- Attach web splice plates to sections (1) and (2) diaphragms.
- Remove Timber Block Posts.
- Attach bottom flange splice plate to sections (1) and (2) of the diaphragm.



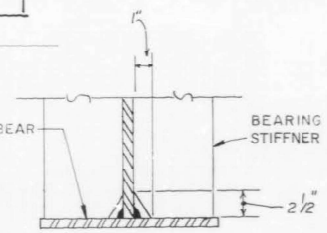
**NOTES:**  
The bolts for slotted holes in connecting plate at Girder 7 shall only be finger-tightened prior to the deck slab pouring and then be fully tightened after completion of the pouring.

1 1/2" Vert. x 13/16" slotted holes in connecting plate at Girder 7 only.

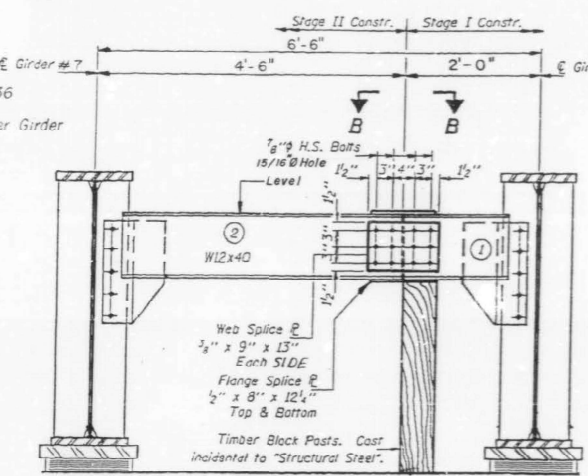


**NOTE:** Two hardened washers shall be required over all 13/16" holes in diaphragm connections

**INTERIOR DIAPHRAGM B**  
(Exterior Face of Exterior Girders does not have connecting plate.)  
(33 Required)

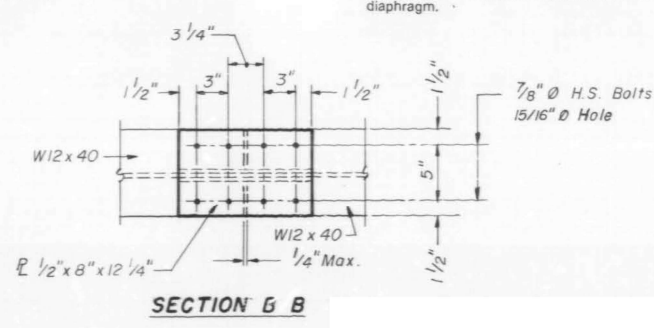


**DETAIL A**



**DIAPHRAGM A2**  
2 Required  
(Looking South)

For detail connections to Girders see Diaphragm A



**SECTION B B**

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DRAWN	
CHECKED	

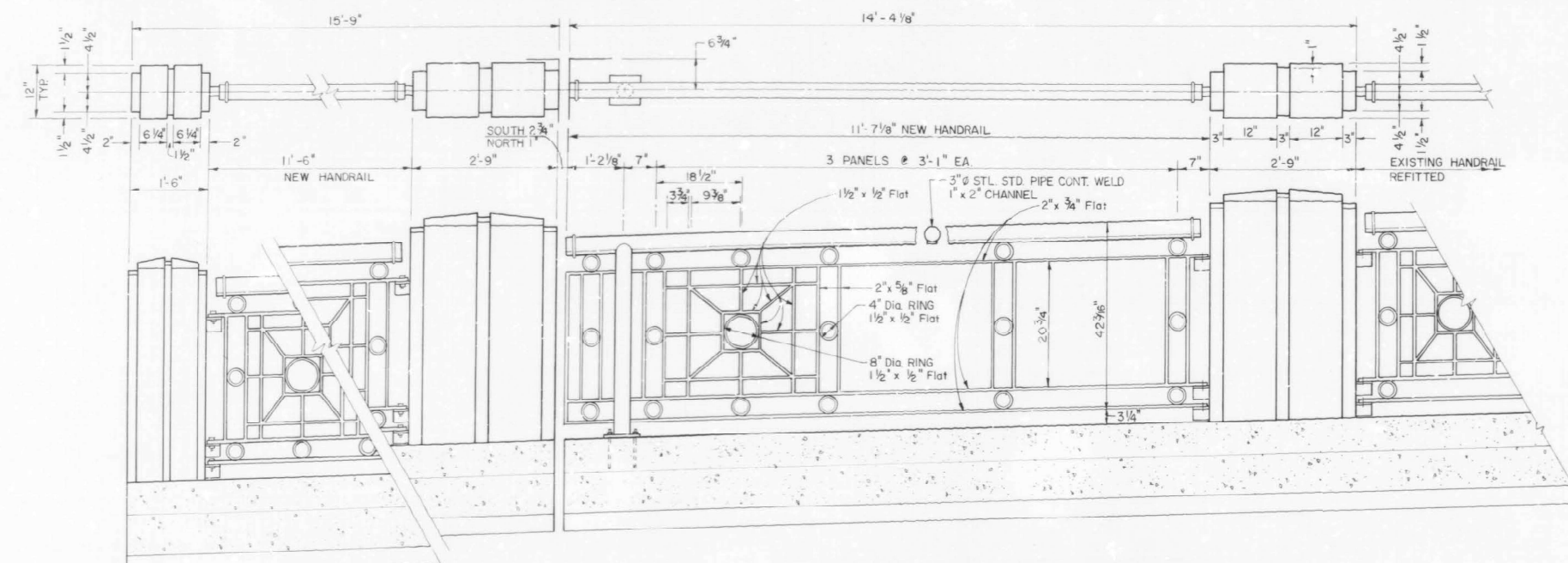
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PLOT DATE = 8/23/2024	DATE -	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

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

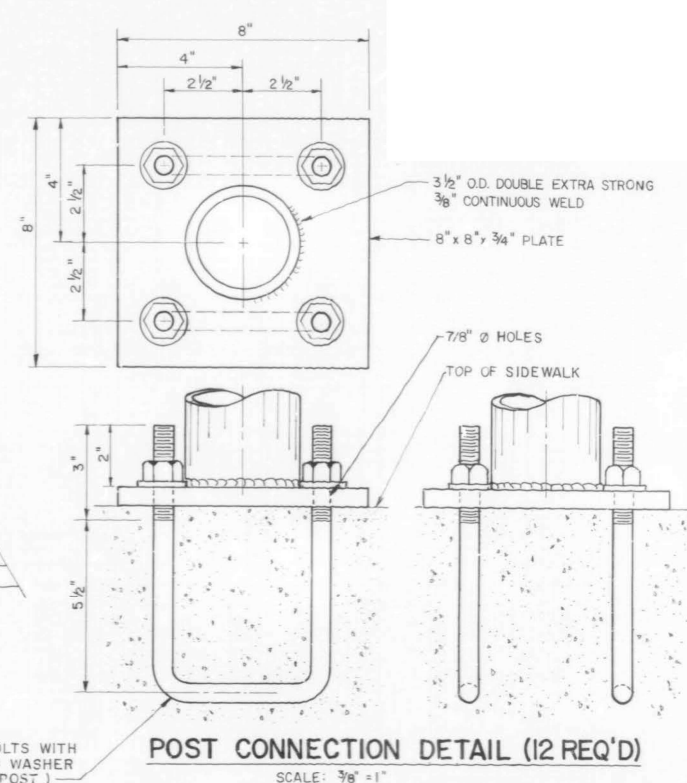
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1360	(21BZ-1-1213) BP 24	COOK	25	22
CONTRACT NO. 62X19				
ILLINOIS FED. AID PROJECT				



**WEST SIDE - NORTH ABUTMENT  
EAST SIDE - SOUTH ABUTMENT**

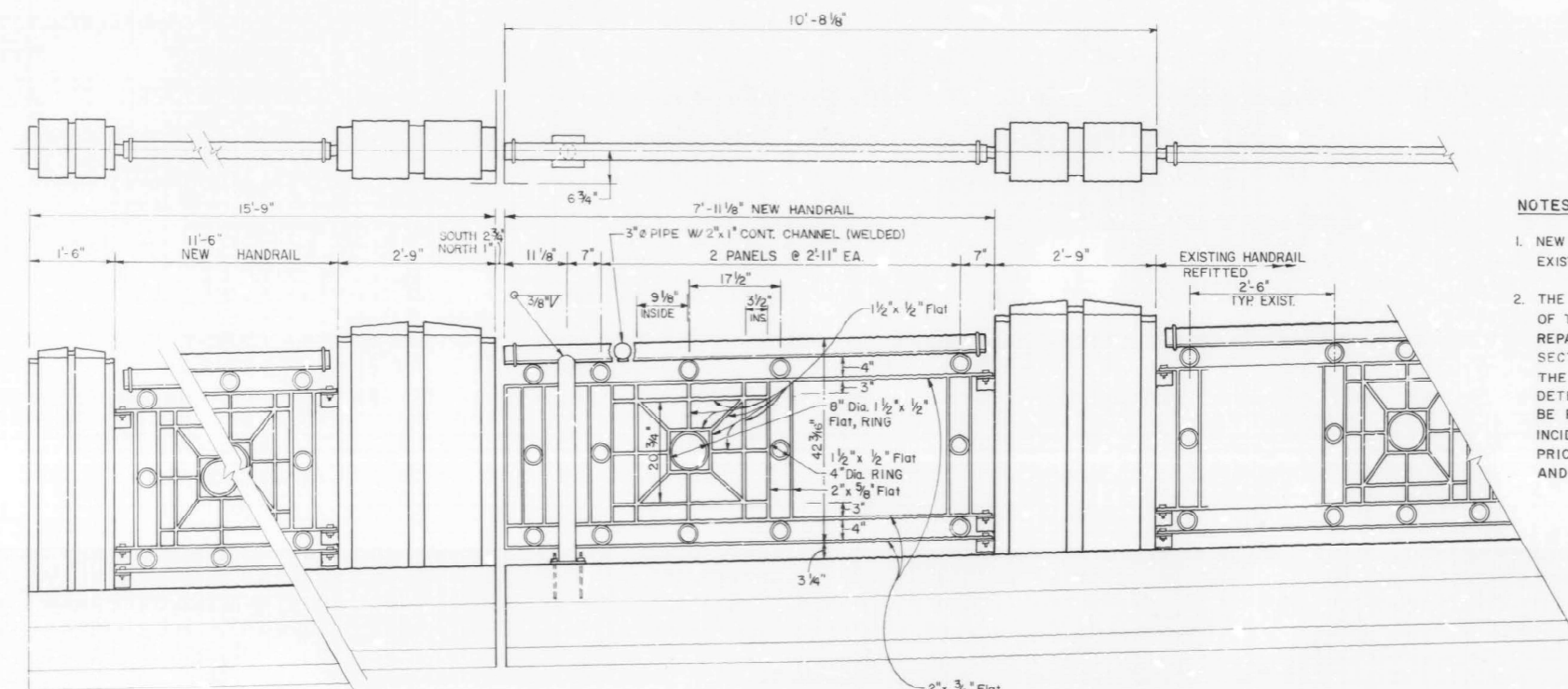
SCALE: 3/4" = 1'-0"

NOTE: EXISTING HANDRAIL POSTS ARE TO BE CUT OFF AT THE SURFACE OF THE WALKWAY, STORED FOR REUSE. HANDRAIL POSTS MAY BE FITTED WITH 3" Ø PIPE SECTION TO COMPLY WITH THE REQUIRED RAILING CLEARANCE.

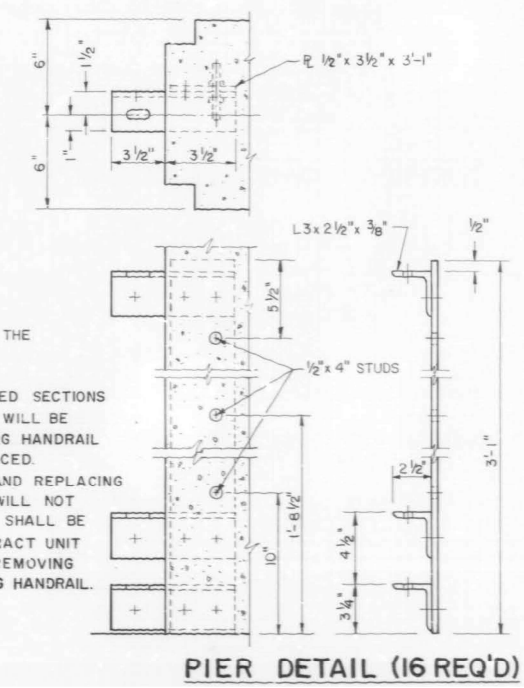


**POST CONNECTION DETAIL (12 REQ'D)**

SCALE: 3/8" = 1"



**EAST SIDE - NORTH ABUTMENT  
WEST SIDE - SOUTH ABUTMENT**



**PIER DETAIL (16 REQ'D)**

**NOTES:**

1. NEW HANDRAIL SHALL MATCH THE EXISTING HANDRAIL.
2. THE EXISTING DETERIORATED SECTIONS OF THE STEEL HANDRAIL WILL BE REPAIRED AND THE MISSING HANDRAIL SECTIONS WILL BE REPLACED. THE COST OF REPAIRING AND REPLACING DETERIORATED SECTIONS WILL NOT BE PAID SEPARATELY BUT SHALL BE INCIDENTAL TO THE CONTRACT UNIT PRICE LINEAR FEET OF REMOVING AND RE-ERECTING EXISTING HANDRAIL.

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

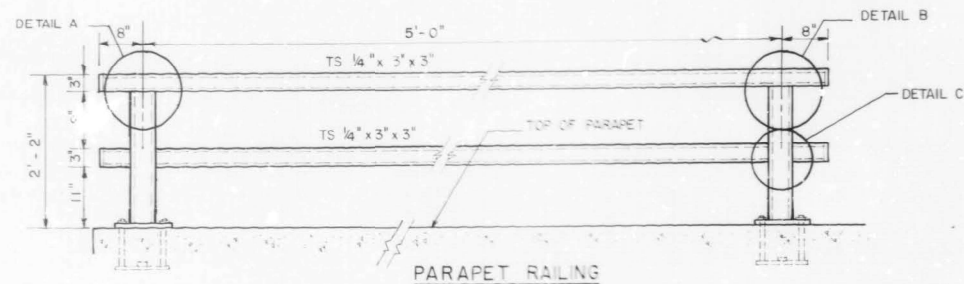
**BRIDGE RAIL DETAILS  
STRUCTURE NO. 016-2612**

SCALE: SHEET 4 OF 6 SHEETS STA. TO STA.

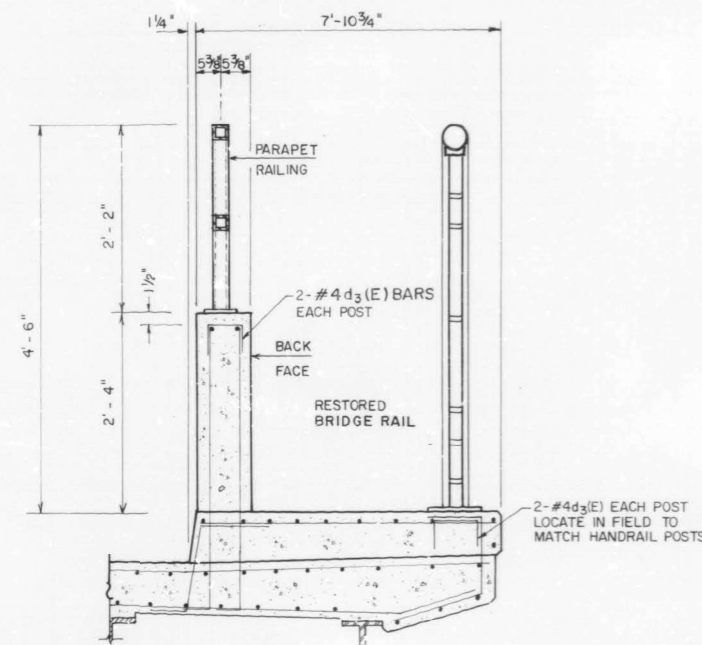
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1360	(21BZ-1-1213) BP 24	COOK	25	23
CONTRACT NO. 62X19				
ILLINOIS FED. AID PROJECT				



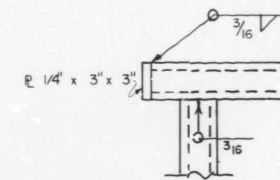
**RAILING PLAN**



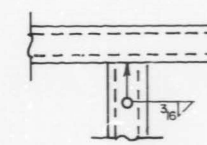
**PANEL ELEVATION**  
(INSIDE FACE)



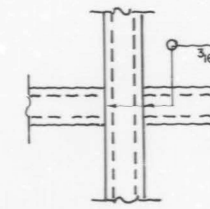
**SECTION THRU SIDEWALK**



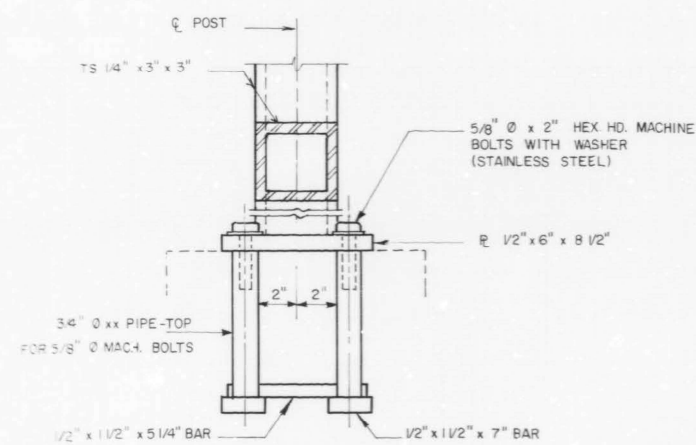
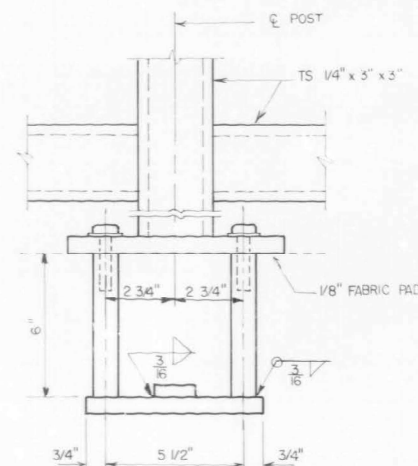
**DETAIL A**



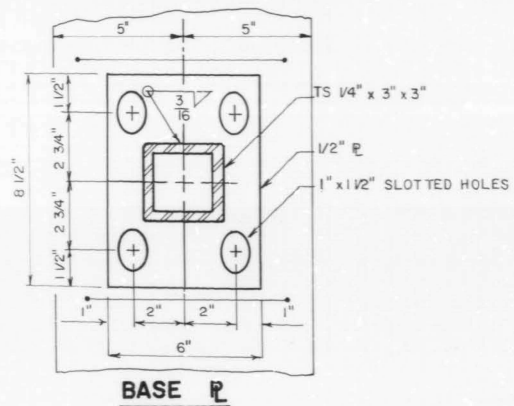
**DETAIL B**



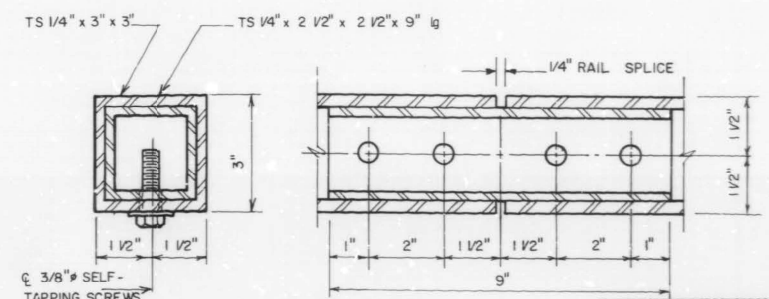
**DETAIL C**



**ANCHOR BOLT DETAILS**



**BASE PLATE**



**RAIL SPLICE**

**NOTES**

PARAPET RAILING SHALL BE IN ACCORDANCE WITH SECTION 508 OF THE STANDARD SPECIFICATIONS, EXCEPT AS NOTED, AND WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER LINEAR FEET FOR PARAPET RAILING.  
HOLLOW STRUCTURAL STEEL TUBING SHALL CONFORM TO THE REQUIREMENT OF ASTM DESIGNATION A 500, GRADE B, STRUCTURAL STEEL TUBING.  
ALL OTHER STEEL SHAPES AND PLATES SHALL CONFORM TO REQUIREMENTS OF AASHTO M270 GRADE 36.

ALL POSTS, RAILING, SPLICES, ANCHOR DEVICES, AND BENT PLATES SHALL BE PAINTED. SEE SPECIAL PROVISIONS.

**BILL OF MATERIAL**

ITEM	UNIT	QUANTITY
PARAPET RAILING	LN. FT.	203

MODEL: 016-2612 SHT 05 (Sheet)  
FILE NAME: c:\pwworking\illinois.gov\baraa.alsmadi\illinois.gov\baraa.alsmadi\024080\0100425-sht-plan.dgn

USER NAME = Baraa.Alsyadi	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 8/23/2024	DATE -	REVISED -

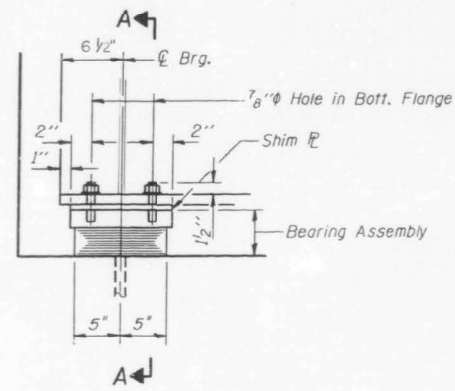
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**BRIDGE RAIL DETAILS**  
**STRUCTURE NO. 016-2612**

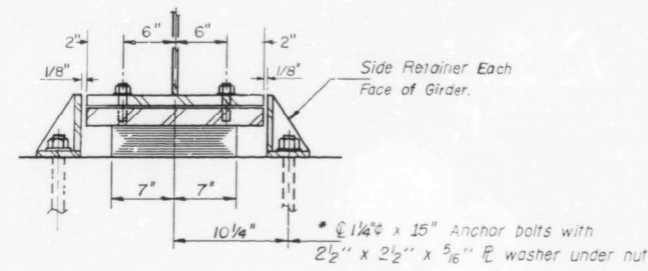
SCALE: SHEET 5 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1360	(21BZ-1-1213) BP 24	COOK	25	24
CONTRACT NO. 62X19				
ILLINOIS FED. AID PROJECT				

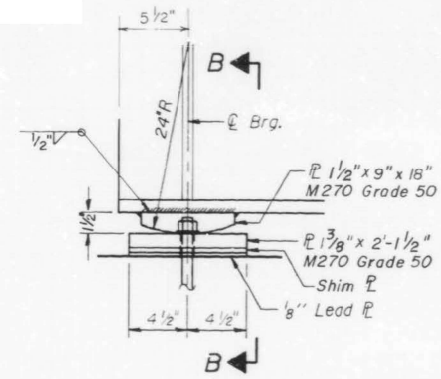




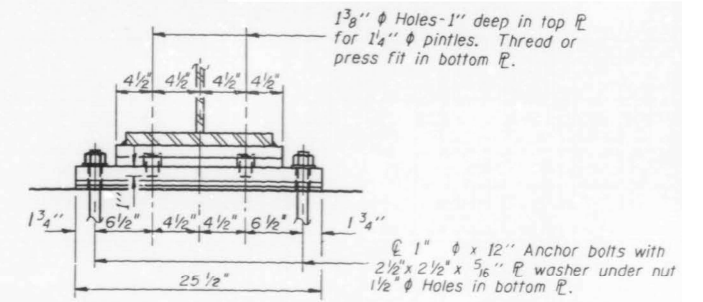
ELEVATION AT SOUTH ABUT.



SECTION A-A

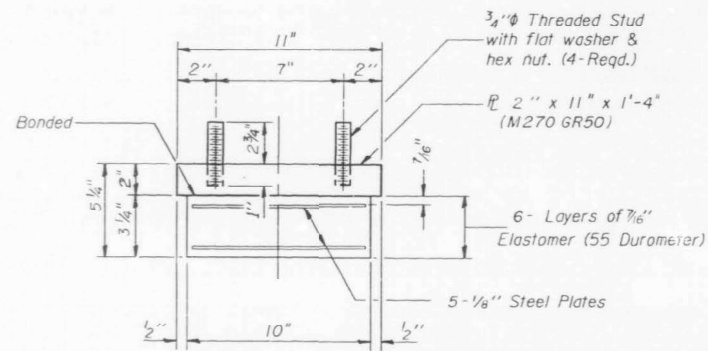


ELEVATION AT NORTH ABUT.



SECTION B-B

TYPE I ELASTOMERIC EXP. BRG.

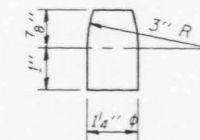


BEARING ASSEMBLY

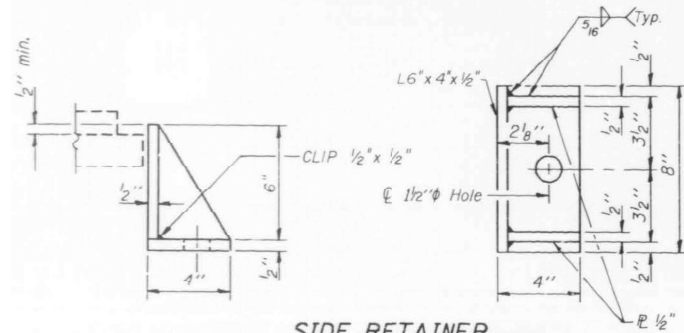
Note: Shim plates shall not be placed under Bearing Assembly.

\* Notes: Anchor bolts at fixed bearings may be built into the masonry. See sheet # S-18 for Anchor Bolt Installation.

FIXED BEARING



PINTLE



SIDE RETAINER

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

MODEL: 016-2612 SHT 06 (Sheet)  
FILE NAME: c:\p\work\pwr\illinois.gov\_baraa\_alsmadi\illinois.gov\024090\0100425-shr-clan.dgn

USER NAME = Baraa.Alsyadi	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 8/23/2024	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

BEARING DETAILS  
STRUCTURE NO. 016-2612

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1360	(21BZ-1-1213) BP 24	COOK	25	25
CONTRACT NO. 62X19				
ILLINOIS FED. AID PROJECT				