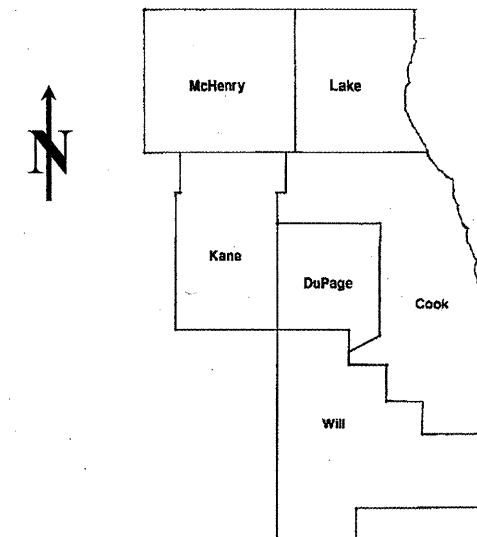


ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2010-023 BP	VARIOUS	93	1

FOR INDEX OF SHEETS SEE SHEET 2

**CONTRACT NO. 60K48
D-91-516-10**

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
DISTRICT ONE
PROPOSED HIGHWAY PLANS**



LOCATION OF IMPROVEMENT INDICATED THUS:

**IMPROVEMENTS ARE LOCATED
IN THE VILLAGES OF SUGAR
GROVE, WILMETTE, SKOKIE,
LINCOLNWOOD, NORTHBROOK,
NORTHFIELD, MORTON GROVE,
GURNEE AND THE CITY OF
CHICAGO**

**VARIOUS ROUTES
VARIOUS LOCATIONS
SECTION 2010-023 BP
BRIDGE PAINTING
VARIOUS COUNTIES
C-91-516-10**

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED: MARCH 31 2010
Diane M. O'Keefe DE
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

MAY 7 2010
Scott E. Stitt P.E./BL
acting ENGINEER OF DESIGN AND ENVIRONMENT

MAY 7 2010
Christine M. Reed BL
DIRECTOR, DIVISION OF HIGHWAYS

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

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

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

**PROJECT ENGINEER ROBERT BORO (847) 705-4178
PROJECT MANAGER KEN ENG**

CONTRACT NO. 60K48

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2010-023 BP	VARIOUS	93	2

CONTRACT NO. 60K48

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- 2 INDEX OF SHEETS, STATE STANDARDS
- 3 GENERAL NOTES
- 4 GENERAL PAINT NOTES
- 5-6 SUMMARY OF QUANTITIES
- 7 SCHEDULE OF QUANTITIES
- 8-16 LOCATION MAPS
- 17-19 EXISTING BRIDGE PLANS (SN 045-0035, -0036, LOC 1 & 2)
- 20-22 EXISTING BRIDGE PLANS (SN 016-0545, LOC 3)
- 23-26 EXISTING BRIDGE PLANS (SN 016-0821 LOC 4)
- 27-29 EXISTING BRIDGE PLANS (SN 016-0943 LOC 5)
- 30-36 EXISTING BRIDGE PLANS (SN 016-0831 LOC 6)
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- 43-47 EXISTING BRIDGE PLANS (SN 016-0364 LOC 8)
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- 77-82 EXISTING BRIDGE PLANS (SN 016-0251 LOC 14)
- 83-84 EXISTING BRIDGE PLANS (SN 016-0355 LOC 15)
- 85-86 EXISTING BRIDGE PLANS (SN 016-0528 LOC 16)
- 87-91 EXISTING BRIDGE PLANS (SN 049-0029 LOC 17)
- 92 TRAFFIC CONTROL FOR SHOULDERS CLOSURES AND PARTIAL RAMP CLOSURES (TC-17)
- 93 ARTERIAL ROAD INFORMATION SIGN (TC-22)

STATE STANDARDS

- 701101-02 OFF-ROAD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
- 701106-02 OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' AWAY
- 701400-04 FREEWAY / EXPRESSWAY, APPROACH TO LANE CLOSURE
- 701401-05 FREEWAY / EXPRESSWAY, LANE CLOSURE
- 701411-06 LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS > 45 MPH
- 701421-02 LANE CLOSURE, MULTILANE, DAY OPERATIONS ONLY, FOR SPEEDS >45 MPH TO 55 MPH
- 701501-05 URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
- 701601-06 URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
- 701606-06 URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
- 701801-04 LANE CLOSURE MULTILANE 1W OR 2W CROSSWALK OR SIDEWALK CLOSURE
- 701901-01 TRAFFIC CONTROL DEVICES

ILLINOIS DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS
STATE STANDARDS

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2010-023 BP	VARIOUS	93	3

CONTRACT NO. 60K48

GENERAL NOTES

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS UTILITIES. 48 HOURS NOTIFICATION IS REQUIRED.

BEFORE STARTING ANY EXCAVATION IN THE CITY OF CHICAGO, THE CONTRACTOR SHALL CALL "C.U.A.N." AT (312) 744-7000 OR FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS UTILITIES. 48 HOUR NOTIFICATION IS REQUIRED.

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES FOR THE CITY OF CHICAGO AND THE VILLAGES OF SUGAR GROVE, WILMETTE, SKOKIE, LINCOLNWOOD, NORTHBROOK, NORTHFIELD, MORTON GROVE AND GURNEE.

WHEN ARTIFICIAL LIGHTING IS UTILIZED IN NIGHT OPERATIONS, THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTIONS IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC AND ADJOINING RESIDENTIAL AREAS.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS & CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION & ORDERING OF MATERIALS.

THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.

THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 FOR ARTERIALS OR (847)705-4151 FOR EXPRESSWAYS A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.

DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.

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.

THE "ARTERIAL ROAD INFORMATION SIGN (TC-22)" IS APPLICABLE ONLY TO ARTERIAL ROADS AND SHALL NOT BE APPLIED TO EXPRESSWAYS.

ILLINOIS DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2010-023 BP	VARIOUS	93	4

Contract 60K48

GENERAL NOTES FOR PAINT

CLEANING AND PAINTING OF THE EXISTING STRUCTURAL STEEL SHALL BE AS SPECIFIED IN THE SPECIAL PROVISION FOR "CLEANING AND PAINTING EXISTING STEEL STRUCTURES".

A MINIMUM OF FOUR (4) AIR MONITORS WILL BE REQUIRED AT ALL LOCATIONS, EXCEPT TWO (2) MINIMUM WILL BE REQUIRED AT LOCATIONS 1(SN 045-0035) AND 2(SN 045-0036), TO MONITOR ABRASIVE BLASTING OPERATIONS FOR ALL STRUCTURES. SEE SPECIAL PROVISION FOR "CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUE."

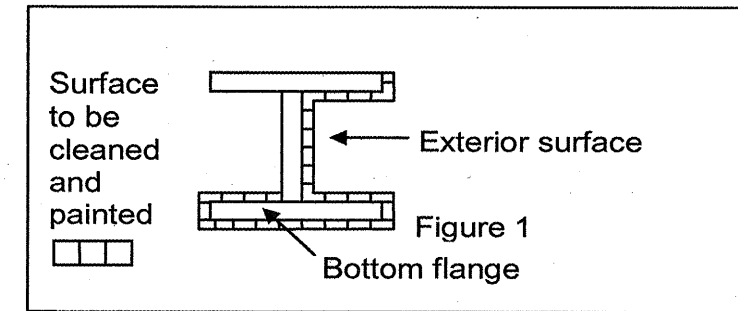
THE AREAS DESIGNATED TO BE CLEANED PER NEAR WHITE BLAST CLEANING SSPC-SP10 SHALL BE PAINTED ACCORDING TO THE REQUIREMENTS OF PAINT SYSTEM 1 - OZ/E/U. THE COLOR OF THE FINAL FINISH COAT FOR ALL INTERIOR STEEL SURFACES AND HAND RAILINGS/FENCE POSTS AT LOC'S 4(SN 016-0821), 6(SN 016-0831), 7(SN 016-0834), 12(SN 016-0719) AND 16(SN 016-0528) 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.

ALL ITEMS (SUCH AS, BUT NOT LIMITED TO: CONDUITS, BRACKETS AND DECK DRAINS) ATTACHED TO THE OUTSIDE OF THE FASCIA BEAMS SHOULD BE CLEANED AND PAINTED.

LOC'S 1(SN 045-0035), 2(SN 045-0036), 3(SN 016-0545), 5(SN 016-0943), 8(SN 016-0364), 9(SN 016-0839), 10(SN 016-0815), 11(SN 016-0811), 13(SN 016-0367), 14(SN 016-0251), 15(SN 016-0355) AND 17(SN 049-0029):
ALL BEAMS, BEARINGS AND OTHER STRUCTURAL STEEL WITHIN FIVE (5) FT., (MEASURED ALONG THE BEAM) OF EITHER SIDE OF ALL DECK JOINTS*, SHALL BE CLEANED PER NEAR WHITE BLAST CLEANING SSPC-SP10. THE EXTERIOR SURFACES AND TOP AND BOTTOM OF THE BOTTOM FLANGE OF THE FASCIA BEAMS (SEE FIGURE 1) SHALL BE CLEANED PER NEAR WHITE BLAST CLEANING SSPC-SP10.

LOC'S 4(SN 016-0821), 6(SN 016-0831), 7(SN 016-0834) AND 12(SN 016-0719):
ALL BEAMS, BEARINGS AND OTHER STRUCTURAL STEEL WITHIN FIVE (5) FT., (MEASURED ALONG THE BEAM) OF EITHER SIDE OF ALL DECK JOINTS, SHALL BE CLEANED PER NEAR WHITE BLAST CLEANING SSPC-SP10. ALL FENCE POSTS AT LOC'S 4(SN 016-0821) AND 6(SN 016-0831) AND THE ENTIRE HAND RAILING AT LOCATIONS 4(SN 016-0821), 6(SN 016-0831), 7(SN 016-0834) AND 12(SN 016-0719) SHALL BE CLEANED PER NEAR WHITE BLAST CLEANING SSPC-SP10. THE EXTERIOR SURFACES AND TOP AND BOTTOM OF THE BOTTOM FLANGE OF THE FASCIA BEAMS (SEE FIGURE 1) SHALL BE CLEANED PER NEAR WHITE BLAST CLEANING SSPC-SP10.

LOC 16(SN 016-0528):
ALL BEAMS, BEARINGS AND OTHER STRUCTURAL STEEL WITHIN FIVE (5) FT., (MEASURED ALONG THE BEAM) OF EITHER SIDE OF ALL DECK JOINTS, SHALL BE CLEANED PER NEAR WHITE BLAST CLEANING SSPC-SP10. THE ENTIRE HAND RAILING SHALL BE CLEANED PER NEAR WHITE BLAST CLEANING SSPC-SP10. THE EXTERIOR SURFACES AND TOP AND BOTTOM OF THE BOTTOM FLANGE OF THE FASCIA BEAMS (SEE FIGURE 1) SHALL BE CLEANED PER NEAR WHITE BLAST CLEANING SSPC-SP10. THE TOP AND BOTTOM FLANGE OF SECOND INTERIOR BEAMS #2 AND 9 (SEE FIGURE 2) SHALL ALSO BE CLEANED PER NEAR WHITE BLAST CLEANING SSPC-SP10.



FASCIA BEAM PAINTING DETAIL

FIGURE 1

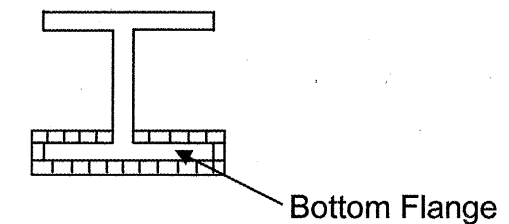


FIGURE 2

*DECK JOINTS AT LOC 17(SN 049-0029) ARE DEFINED AS TRANSVERSE JOINTS ONLY.

ILLINOIS DEPARTMENT OF TRANSPORTATION

GENERAL PAINT NOTES

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2010-023 BP	VARIOUS	93	5

CONTRACT NO. 60K48

SUMMARY OF QUANTITIES

CODE NO	DESCRIPTION	UNITS	URBAN 100% STATE TOTAL	CONSTRUCTION TYPE CODE: SFTY - 2A			
50600600	CLEANING AND PAINTING STEEL BRIDGE NO. 1	L SUM	1	1			
50600700	CLEANING AND PAINTING STEEL BRIDGE NO. 2	L SUM	1	1			
50600800	CLEANING AND PAINTING STEEL BRIDGE NO. 3	L SUM	1	1			
50600900	CLEANING AND PAINTING STEEL BRIDGE NO. 4	L SUM	1	1			
50601000	CLEANING AND PAINTING STEEL BRIDGE NO. 5	L SUM	1	1			
50601100	CLEANING AND PAINTING STEEL BRIDGE NO. 6	L SUM	1	1			
50601200	CLEANING AND PAINTING STEEL BRIDGE NO. 7	L SUM	1	1			
50601300	CLEANING AND PAINTING STEEL BRIDGE NO. 8	L SUM	1	1			
50601400	CLEANING AND PAINTING STEEL BRIDGE NO. 9	L SUM	1	1			
50601500	CLEANING AND PAINTING STEEL BRIDGE NO. 10	L SUM	1	1			
50601600	CLEANING AND PAINTING STEEL BRIDGE NO. 11	L SUM	1	1			
50601700	CLEANING AND PAINTING STEEL BRIDGE NO. 12	L SUM	1	1			
50601800	CLEANING AND PAINTING STEEL BRIDGE NO. 13	L SUM	1	1			
50601900	CLEANING AND PAINTING STEEL BRIDGE NO. 14	L SUM	1	1			
50602000	CLEANING AND PAINTING STEEL BRIDGE NO. 15	L SUM	1	1			

ILLINOIS DEPARTMENT OF
TRANSPORTATION

SUMMARY OF QUANTITIES

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2010-023 BP	VARIOUS	93	6

CONTRACT NO. 60K48

SUMMARY OF QUANTITIES							
CODE NO	DESCRIPTION	UNITS	TOTAL	CONSTRUCTION TYPE CODE: SFTY - 2A			
50602100	CLEANING AND PAINTING STEEL BRIDGE NO. 16	L SUM	1	1			
50602200	CLEANING AND PAINTING STEEL BRIDGE NO. 17	L SUM	1	1			
50606400	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES	L SUM	1	1			
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	26	26			
67100100	MOBILIZATION	L SUM	1	1			
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1	1			
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1	1			
70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	1	1			
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	1			
X0322256	TEMPORARY INFORMATION SIGNING	SQ FT	514	514			
X0325702	NIGHTTIME WORK ZONE LIGHTING	L SUM	1	1			
X7011015	TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)	L SUM	1	1			
Z0009920	CHAIN LINK FABRIC, TYPE I, 6'	FOOT	898	898			

ILLINOIS DEPARTMENT OF
TRANSPORTATION

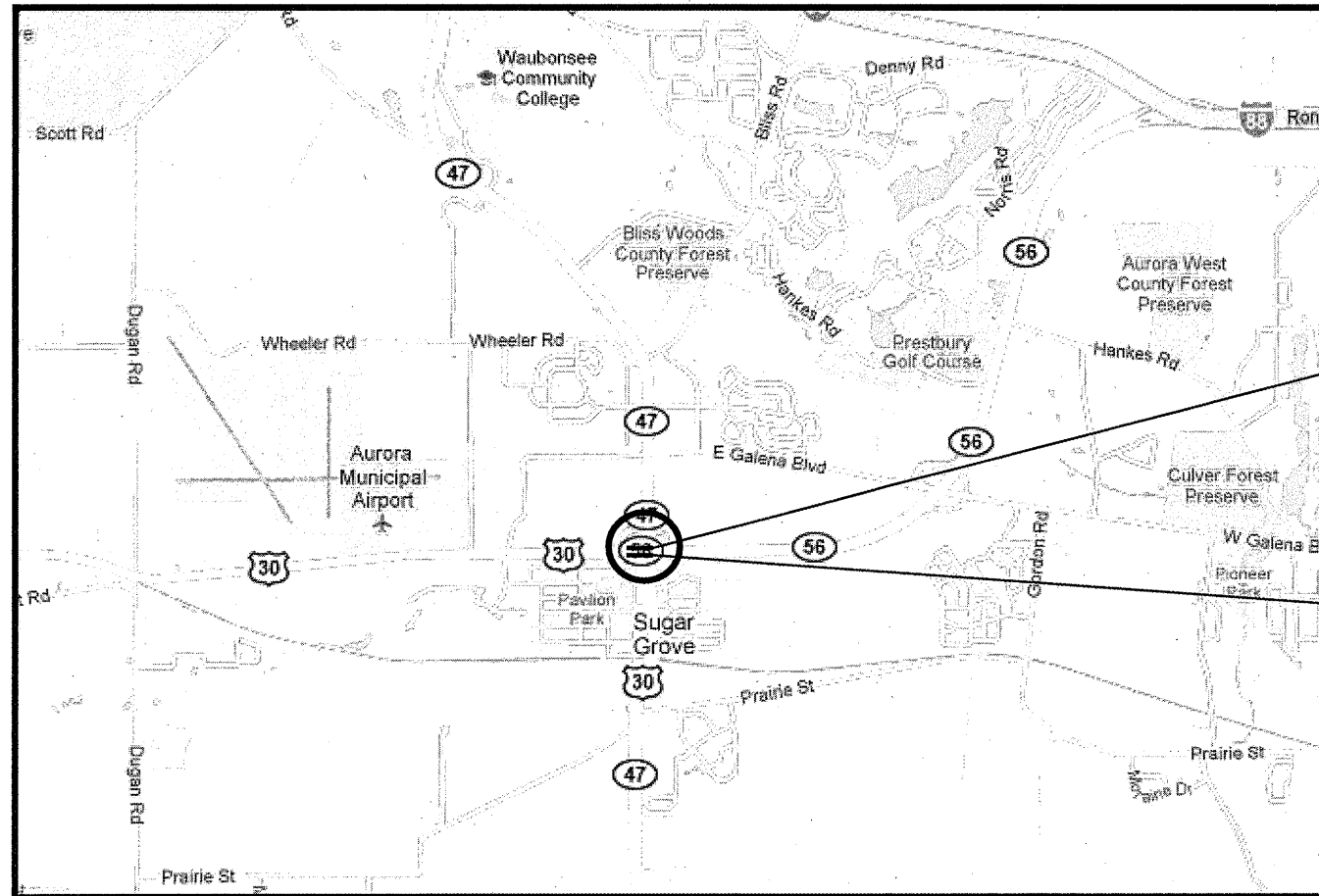
SUMMARY OF QUANTITIES

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2010-023 BP	VARIOUS	93	8

CONTRACT NO. 60K48

R 7 E

T 38 N



LOCATION 2:
SN 045-0036
IL 56 (WB) OVER IL47
VILLAGE OF SUGAR GROVE

LOCATION 1:
SN 045-0035
IL 56 (EB) OVER IL47
VILLAGE OF SUGAR GROVE

SUGAR GROVE TOWNSHIP
KANE COUNTY

TRAFFIC DATA:

IL 56 (EB)

2009 ADT = 6,100
POSTED SPEED LIMIT = 55 MPH

IL 56 (WB):

2009 ADT = 8,200
POSTED SPEED LIMIT = 55 MPH

IL 47:

2009 ADT = 18,600
POSTED SPEED LIMIT = 45 MPH

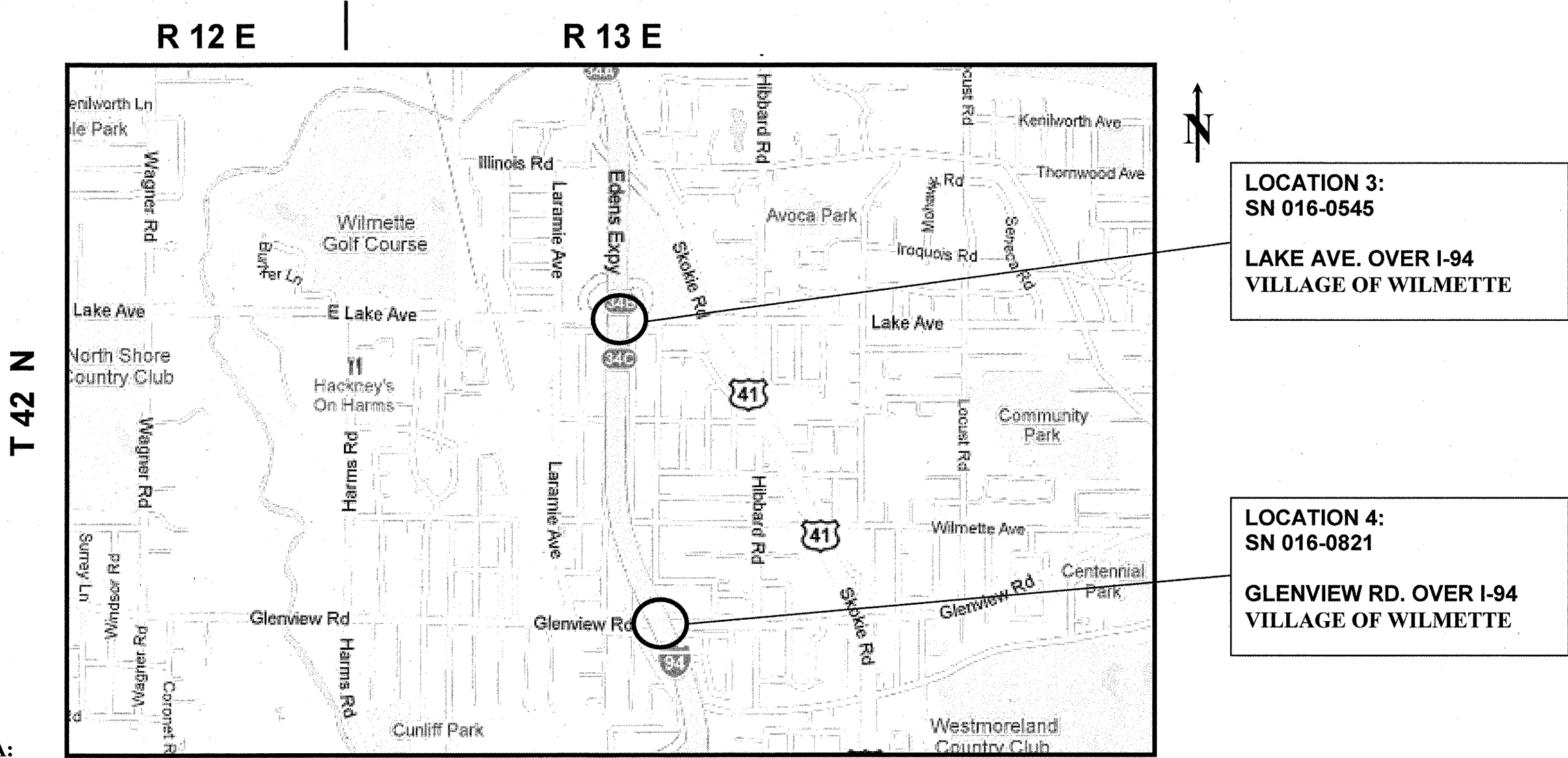
ILLINOIS DEPARTMENT OF
TRANSPORTATION

LOCATION MAP

LOCATION 1: SN 045-0035
LOCATION 2: SN 045-0036

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2010-023 BP	VARIOUS	93	9

CONTRACT NO. 60K48



LOCATION 3:
SN 016-0545
LAKE AVE. OVER I-94
VILLAGE OF WILMETTE

LOCATION 4:
SN 016-0821
GLENVIEW RD. OVER I-94
VILLAGE OF WILMETTE

TRAFFIC DATA:

LAKE AVE.:
2006 ADT = 23,300
POSTED SPEED LIMIT = 35 MPH

GLENVIEW RD.:
2006 ADT = 11,100
POSTED SPEED LIMIT = 35 MPH

I-94 (EDEN EXPRESSWAY)
2008 ADT = 149,700
POSTED SPEED LIMIT = 55 MPH

NEW TRIER TOWNSHIP
COOK COUNTY

ILLINOIS DEPARTMENT OF
TRANSPORTATION

LOCATION MAP

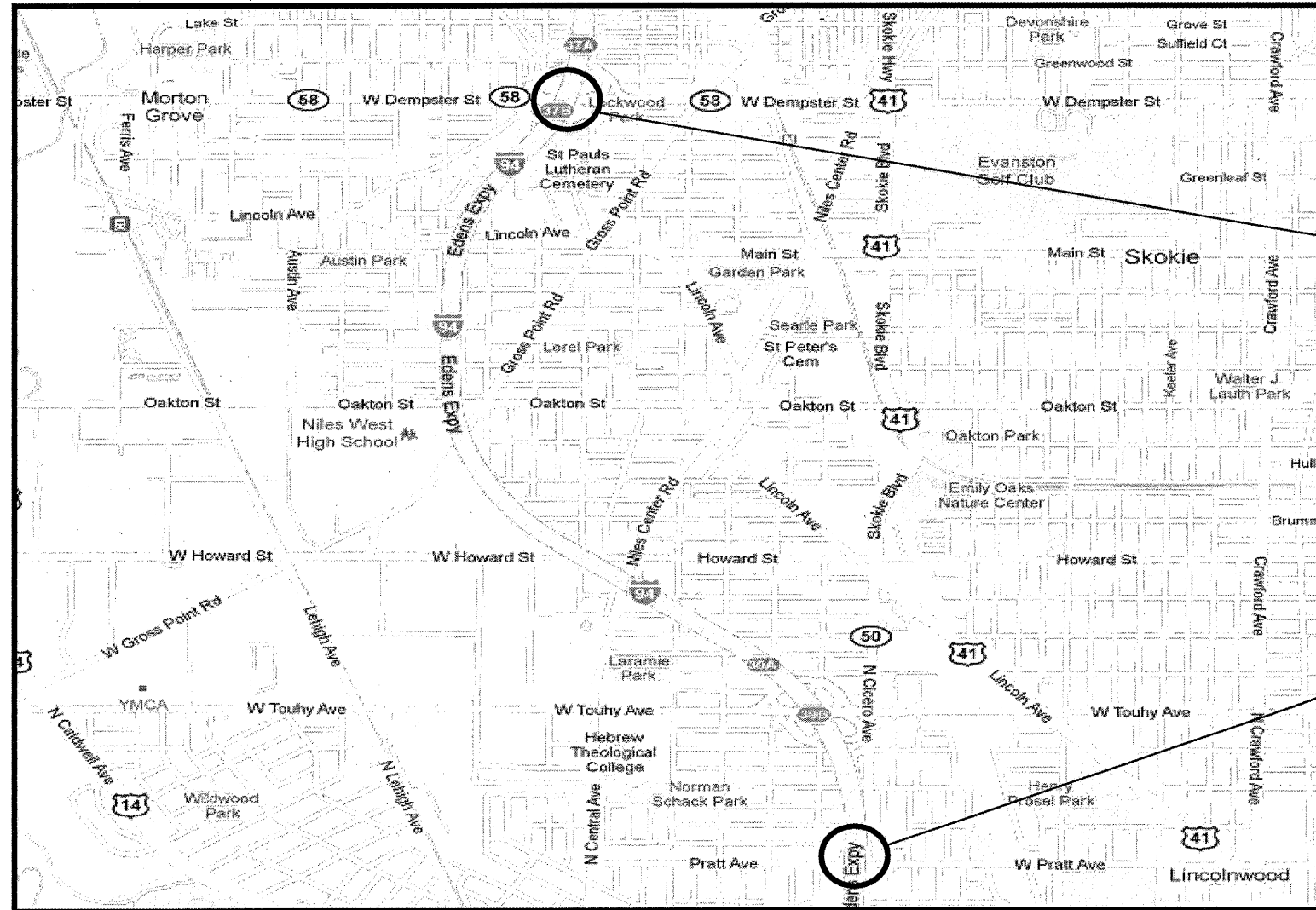
LOCATION 3: SN 016-0545
LOCATION 4: SN 016-0821

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2010-023 BP	VARIOUS	93	10

CONTRACT NO. 60K48

R 13 E

T 41 N



LOCATION 5:
SN 016-0943
IL 58 (DEMPSTER ST.) OVER I-94
VILLAGE OF SKOKIE

LOCATION 6:
SN 016-0831
PRATT AVE. OVER I-94
VILLAGE OF LINCOLNWOOD

**NILES TOWNSHIP
COOK COUNTY**

TRAFFIC DATA:

IL 58 (DEMPSTER ST.):

2009 ADT = 29,300
POSTED SPEED LIMIT = 35 MPH

PRATT AVE.:

2006 ADT = 11,300
POSTED SPEED LIMIT = 35 MPH

I-94 (EDEN EXPRESSWAY)

2008 ADT = 153,000
POSTED SPEED LIMIT = 55 MPH

**ILLINOIS DEPARTMENT OF
TRANSPORTATION**

LOCATION MAP

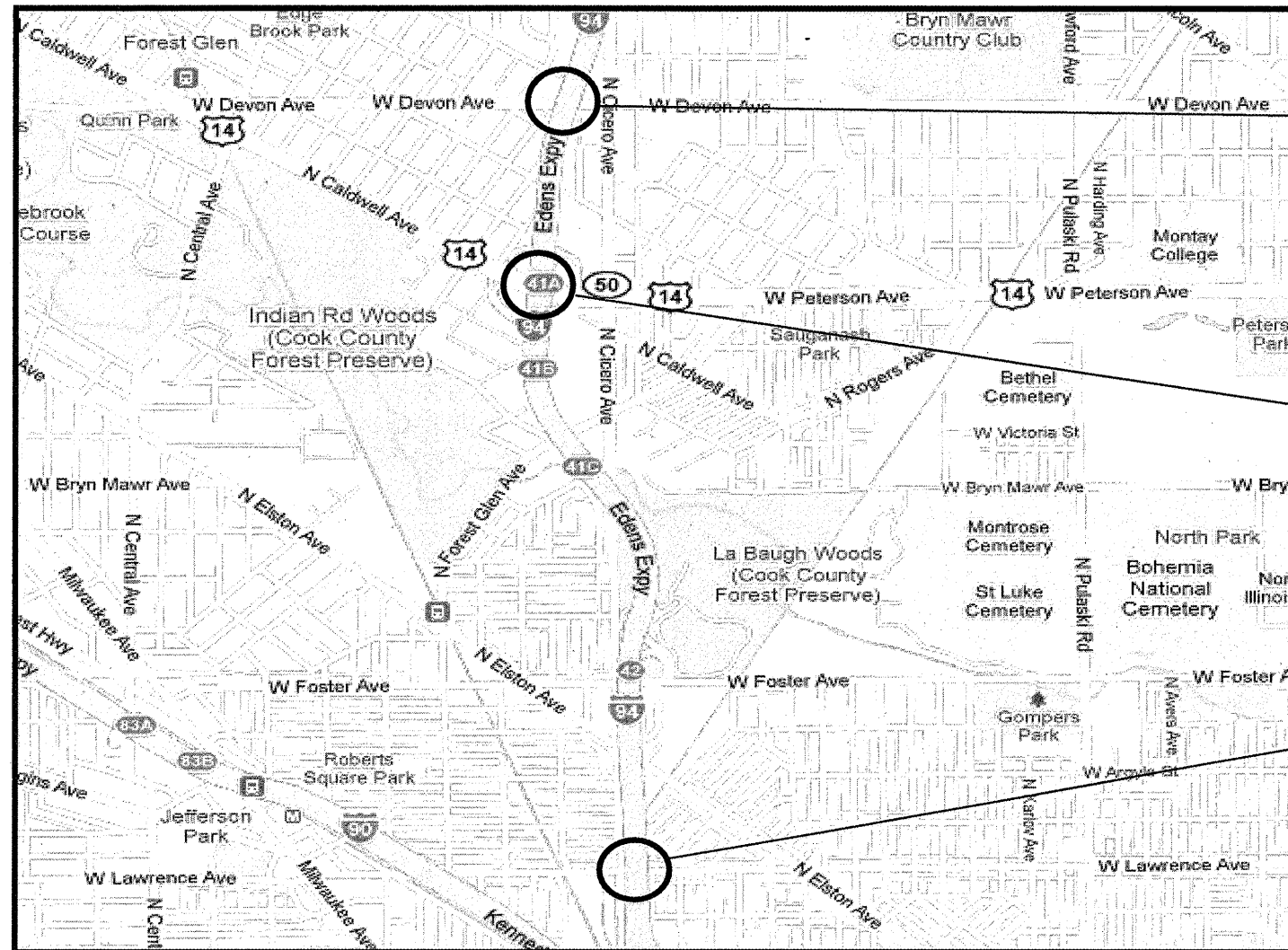
LOCATION 5: SN 016-0943
LOCATION 6: SN 016-0831

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2010-023 BP	VARIOUS	93	11

CONTRACT NO. 60K48

R 13 E

T 40 N



LOCATION 7:
SN 016-0834
DEVON AVE. OVER I-94
VILLAGE OF LINCOLNWOOD

LOCATION 8:
SN 016-0364
US 14 (PETERSON AVE.) OVER I-94
CITY OF CHICAGO

LOCATION 9:
SN 016-0839
LAWRENCE AVE. OVER I-94
CITY OF CHICAGO



TRAFFIC DATA:

DEVON AVE.:

2006 ADT = 24,900
POSTED SPEED LIMIT = 30 MPH

US 14 (PETERSON AVE.):

2009 ADT = 25,200
POSTED SPEED LIMIT = 30 MPH

LAWRENCE AVE.:

2006 ADT = 13,400
POSTED SPEED LIMIT = 30 MPH

I-94 (EDEN EXPRESSWAY)

2008 ADT = 162,300
POSTED SPEED LIMIT = 55 MPH

**JEFFERSON TOWNSHIP
COOK COUNTY**

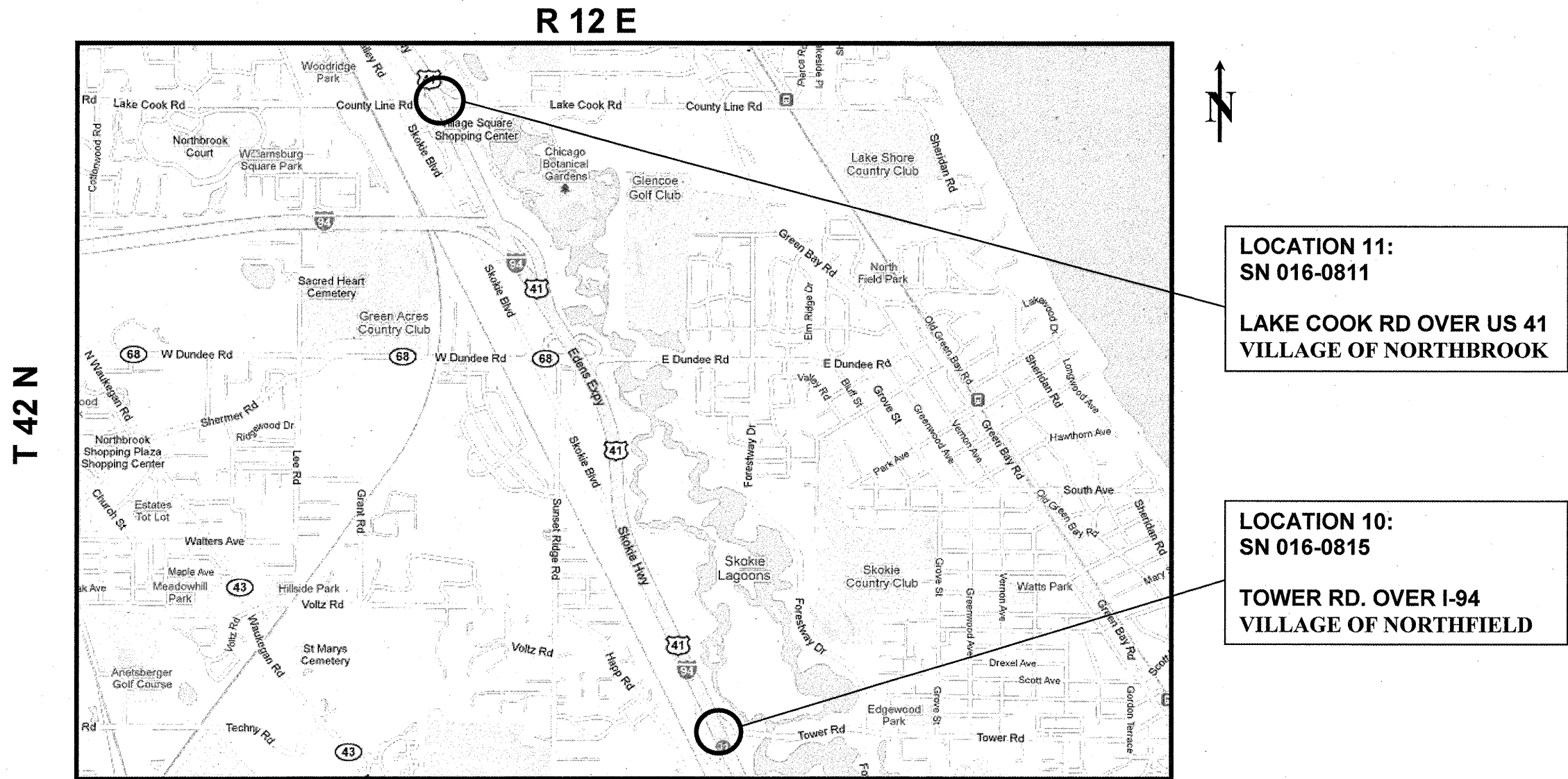
**ILLINOIS DEPARTMENT OF
TRANSPORTATION**

LOCATION MAP

LOCATION 7: SN 016-0834
LOCATION 8: SN 016-0364
LOCATION 9: SN 016-0839

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2010-023 BP	VARIOUS	93	12

CONTRACT NO. 60K48



LOCATION 11:
SN 016-0811
LAKE COOK RD OVER US 41
VILLAGE OF NORTHBROOK

LOCATION 10:
SN 016-0815
TOWER RD. OVER I-94
VILLAGE OF NORTHFIELD

NORTHFIELD TOWNSHIP
COOK COUNTY

TRAFFIC DATA:

LAKE COOK RD.:

2006 ADT = 31,300
POSTED SPEED LIMIT = 35 MPH

TOWER RD.:

2006 ADT = 8,600
POSTED SPEED LIMIT = 35 MPH

I-94 (EDEN EXPRESSWAY)

2008 ADT = 147,100
POSTED SPEED LIMIT = 50-55 MPH

ILLINOIS DEPARTMENT OF
TRANSPORTATION

LOCATION MAP

LOCATION 10: SN 016-0815
LOCATION 11: SN 016-0811

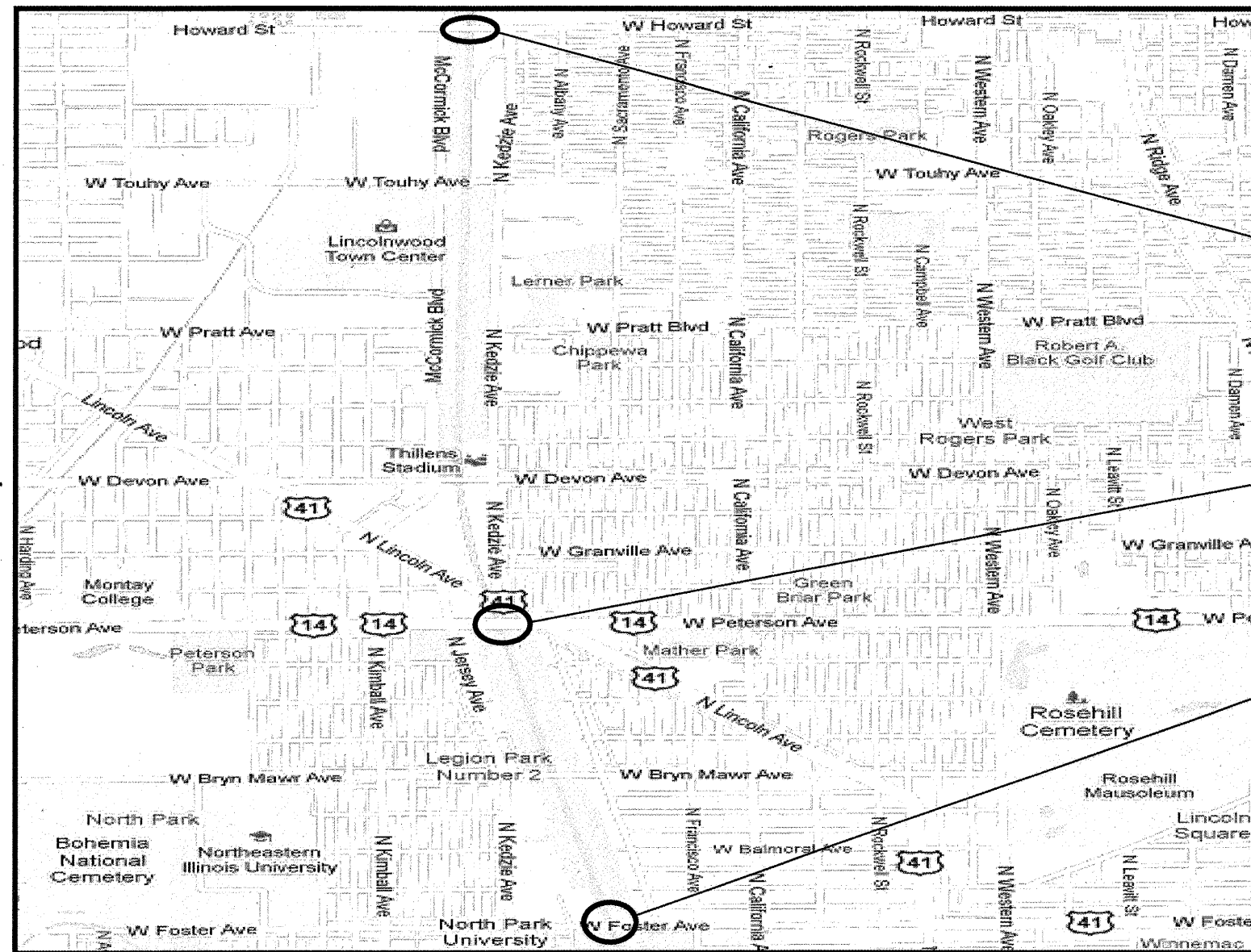
ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2010-023 BP	VARIOUS	93	13

CONTRACT NO. 60K48

R 13 E

T 41 N

T 40 N



LOCATION 12:
SN 016-0719
HOWARD AVE. OVER NORTH SHORE CHANNEL
VILLAGE OF SKOKIE

LOCATION 13:
SN 016-0367
PETERSON AVE. OVER NORTH SHORE CHANNEL
CITY OF CHICAGO

LOCATION 14:
SN 016-0251
FOSTER AVE. OVER NORTH SHORE CHANNEL
CITY OF CHICAGO

NILES AND JEFFERSON TOWNSHIP
COOK COUNTY

TRAFFIC DATA:

HOWARD AVE.:

2006 ADT = 17,900
POSTED SPEED LIMIT = 35 MPH

US 14 (PETERSON AVE.):

2009 ADT = 34,300
POSTED SPEED LIMIT = 30 MPH

FOSTER AVE.:

2006 ADT = 19,800
POSTED SPEED LIMIT = 30 MPH

ILLINOIS DEPARTMENT OF
TRANSPORTATION

LOCATION MAP

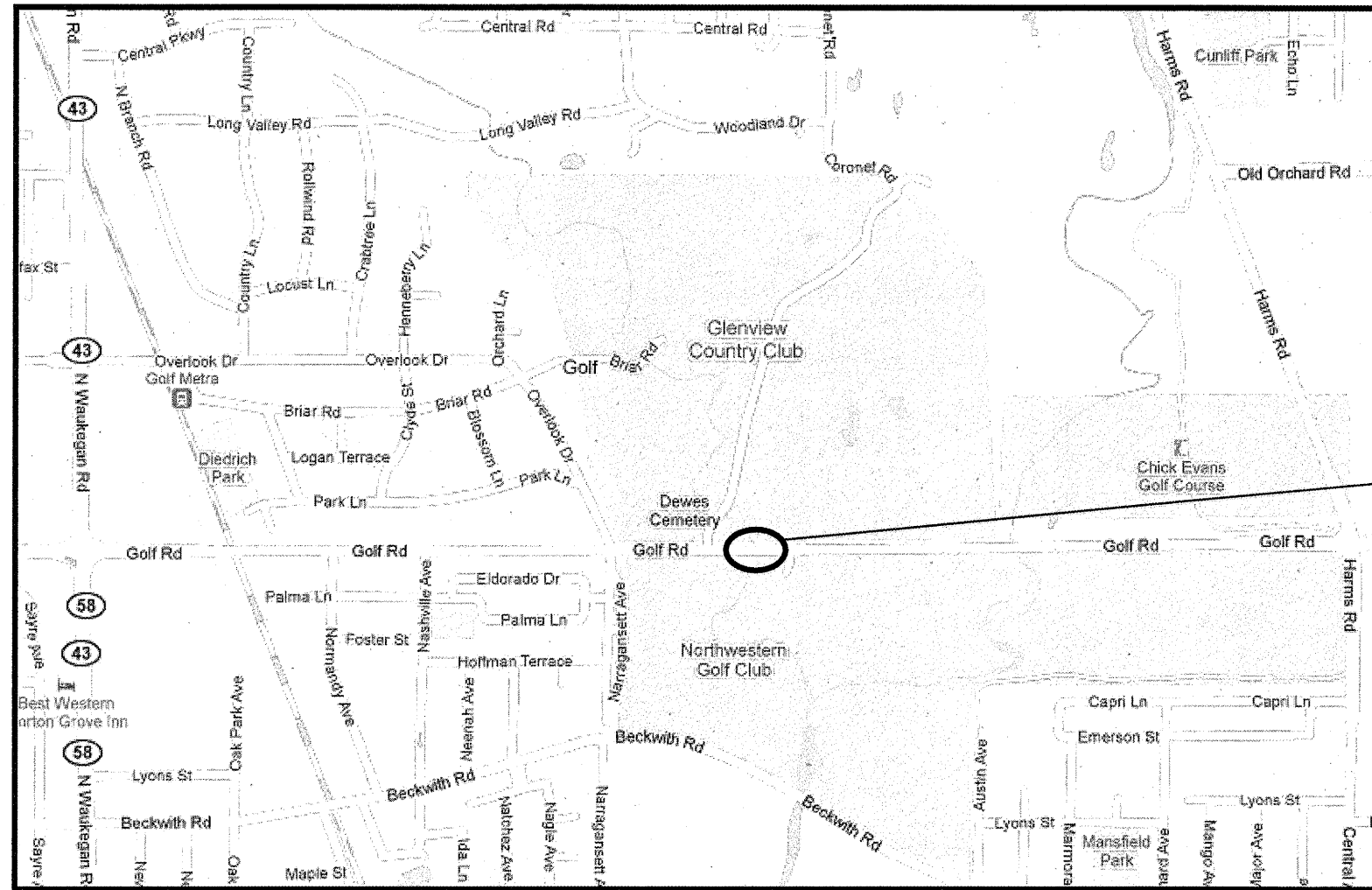
LOCATION 12: SN 016-0719
LOCATION 13: SN 016-0367
LOCATION 14: SN 016-0251

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2010-023 BP	VARIOUS	93	14

CONTRACT NO. 60K48

R 13 E

T 41 N



LOCATION 15:
SN 016-0355
GOLF RD. OVER W. FORK N. Br. CHICAGO RIVER
VILLAGE OF MORTON GROVE

**NILES TOWNSHIP
 COOK COUNTY**

TRAFFIC DATA:

GOLF RD.:

2006 ADT = 40,600
 POSTED SPEED LIMIT = 45 MPH

**ILLINOIS DEPARTMENT OF
 TRANSPORTATION**

LOCATION MAP

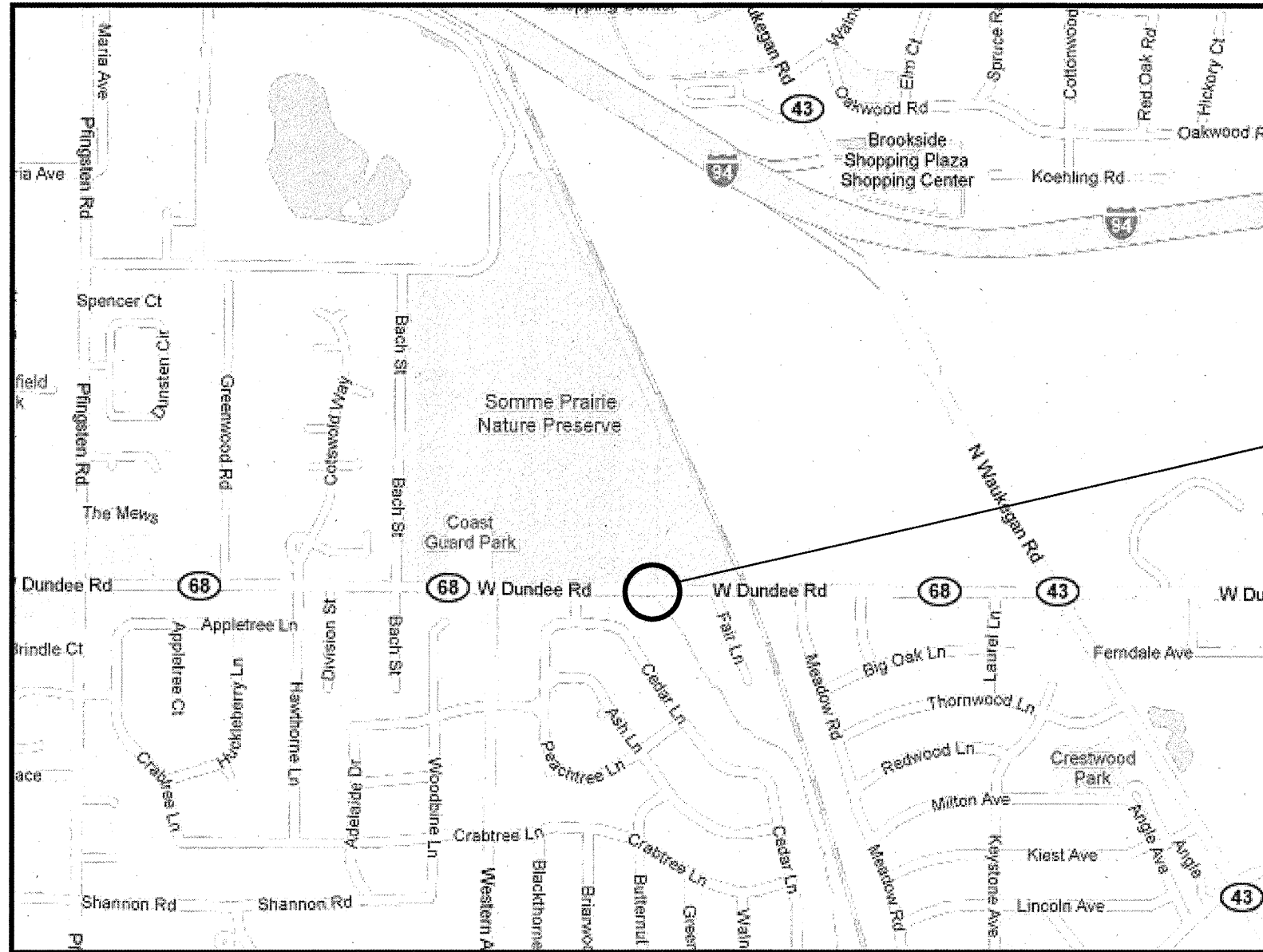
LOCATION 15: SN 016-0355

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2010-023 BP	VARIOUS	93	15

CONTRACT NO. 60K48

R 12 E

T 42 N



LOCATION 16:
SN 016-0528
IL 68 (DUNDEE RD.) OVER W. FORK N. Br.
CHICAGO RIVER
VILLAGE OF NORTHBROOK

TRAFFIC DATA:

IL 68 (DUNDEE RD.):

2009 ADT = 32,900
 POSTED SPEED LIMIT = 45 MPH

NORTHFIELD TOWNSHIP
COOK COUNTY

ILLINOIS DEPARTMENT OF
TRANSPORTATION

LOCATION MAP

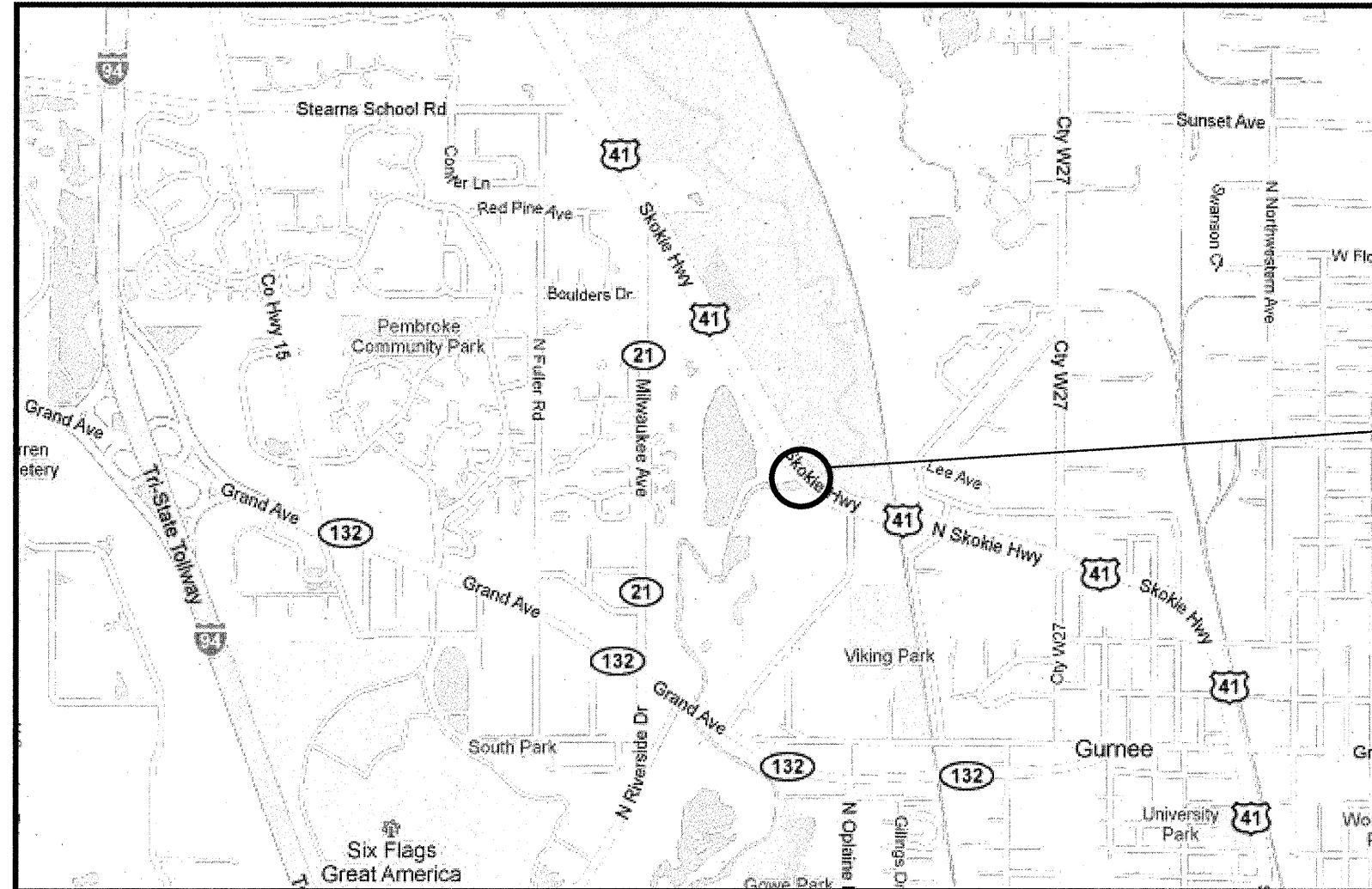
LOCATION 16: SN 016-0528

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2010-023 BP	VARIOUS	93	16

CONTRACT NO. 60K48

R 11 E

T 45 N



LOCATION 17:
SN 049-0029
US 41 (SKOKIE HWY.) OVER DES PLAINES RIVER
VILLAGE OF GURNEE

WARREN TOWNSHIP
LAKE COUNTY

TRAFFIC DATA:

US 41 (SKOKIE HWY.):

2009 ADT = 28,100
 POSTED SPEED LIMIT = 45 MPH

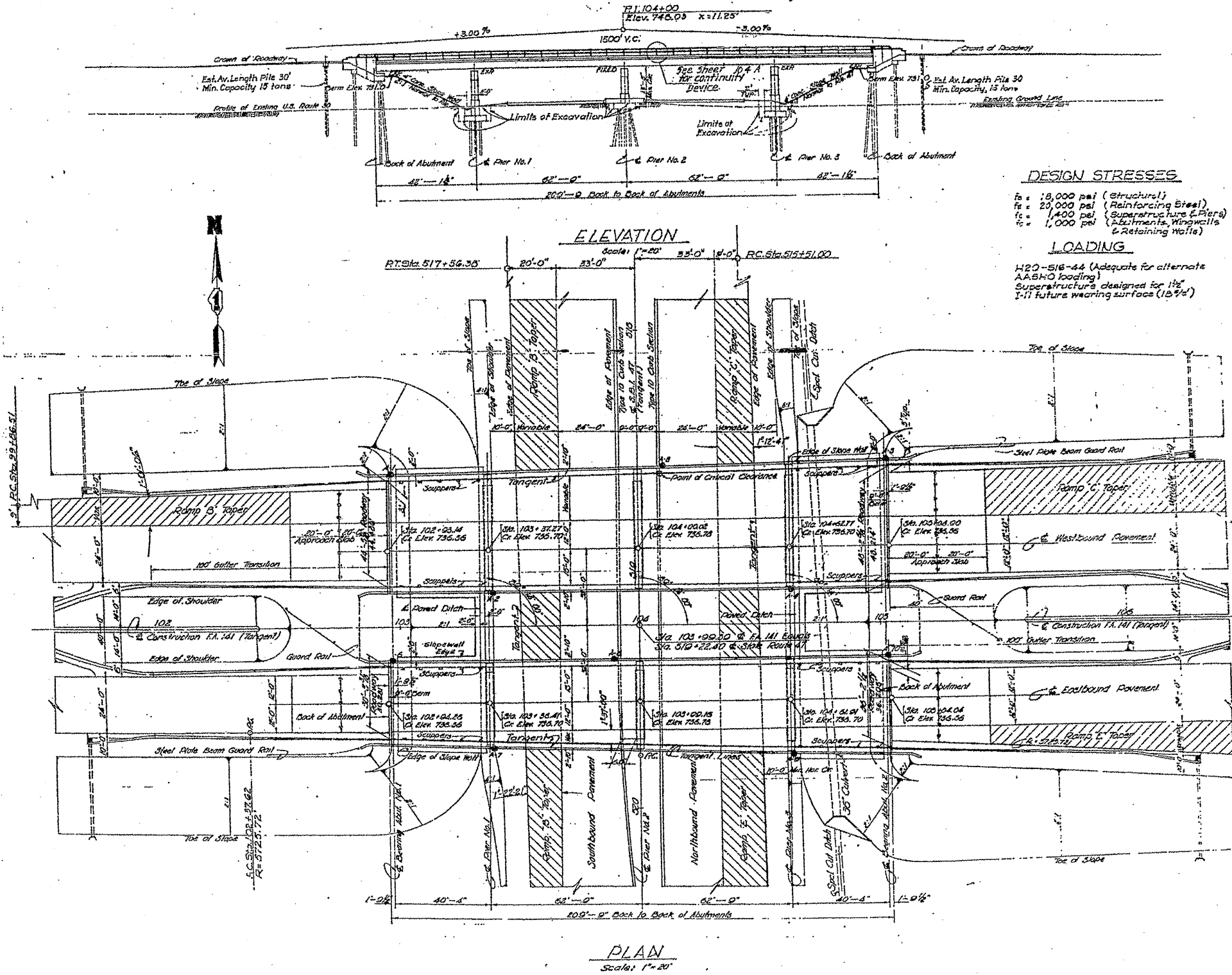
ILLINOIS DEPARTMENT OF
TRANSPORTATION

LOCATION MAP

LOCATION 17: SN 049-0029

ROUTE VARIOUS	SECTION 2010-023 BP	COUNTY VARIOUS	TOTAL SHEETS 93	SHEET NUMBER 17
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CONTRACT NO. 60K48



DESIGN STRESSES
 $f_s = 18,000$ psi (Structure)
 $f_s = 20,000$ psi (Reinforcing Steel)
 $f_s = 1,400$ psi (Superstructure & Piers)
 $f_s = 1,000$ psi (Substructure, Wingwalls & Retaining Walls)

LOADING
 H20-516-44 (Adequate for alternate AASHTO loading)
 Superstructure designed for 1 1/2" I-11 future wearing surface (15% Δ)

PLAN
 Scale: 1"=20'

ILLINOIS DEPARTMENT OF
 TRANSPORTATION

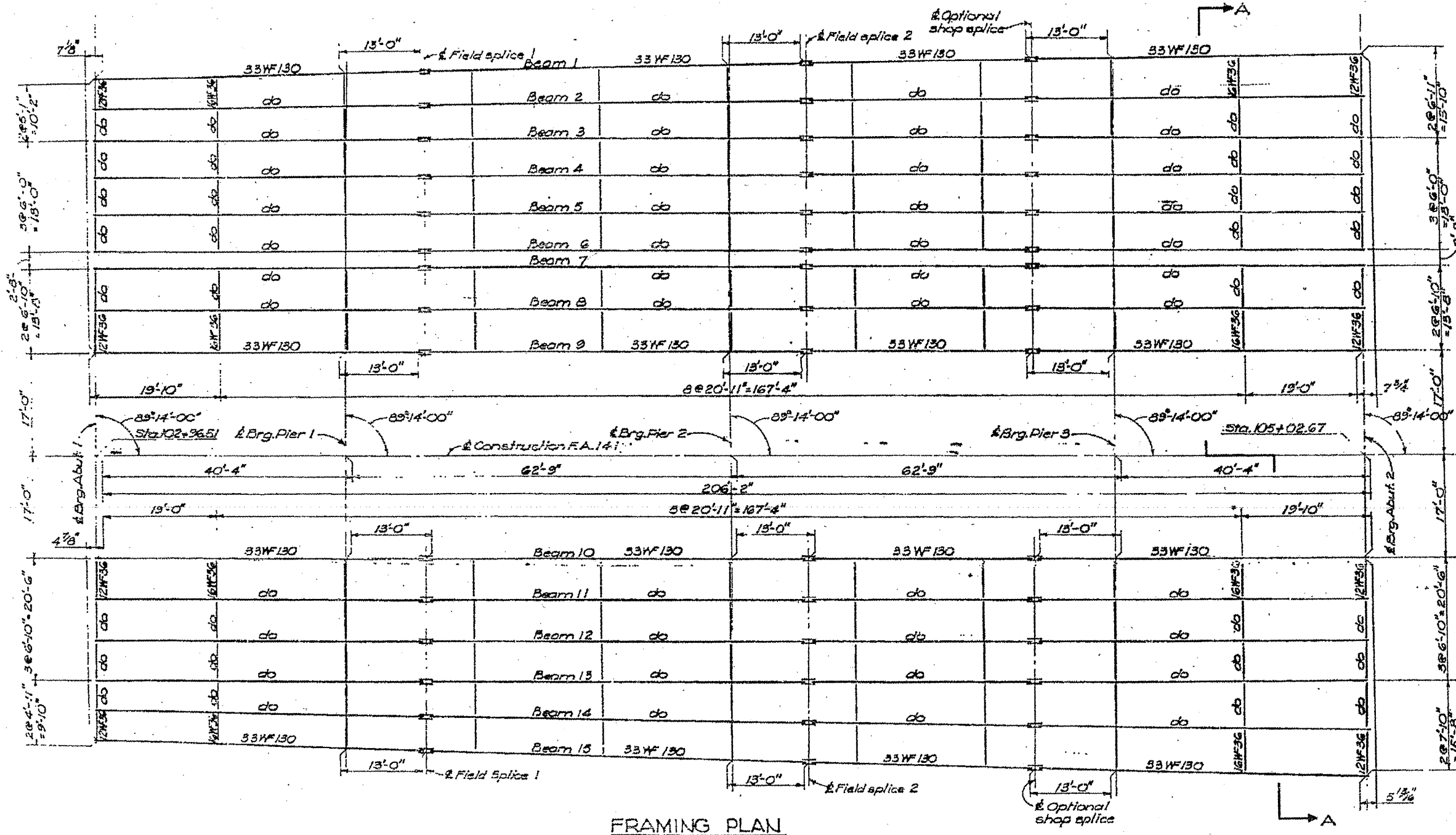
EXISTING BRIDGE PLAN

LOCATION 1: SN 045-0035
 LOCATION 2: SN 045-0036
 IL 56 (EB & WB) OVER IL47

SH. 1 of 3

ROUTE VARIOUS	SECTION 2010-023 BP	COUNTY VARIOUS	TOTAL SHEETS 93	SHEET NUMBER 18
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CONTRACT NO. 60K48



FRAMING PLAN

ILLINOIS DEPARTMENT OF
TRANSPORTATION

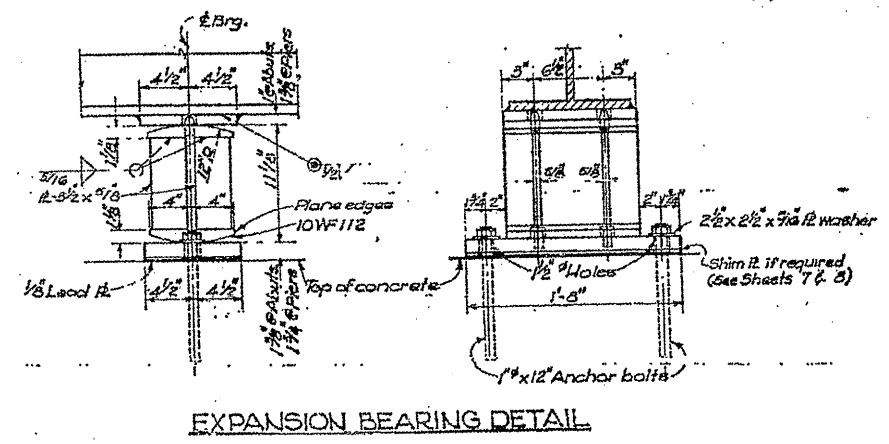
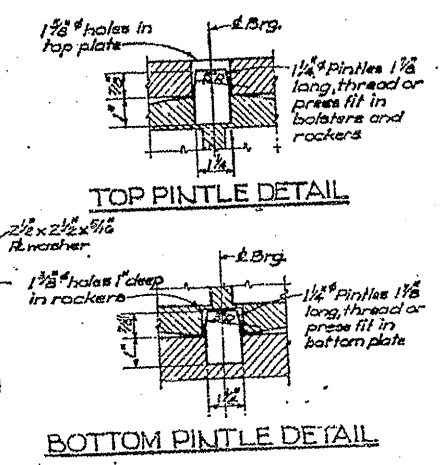
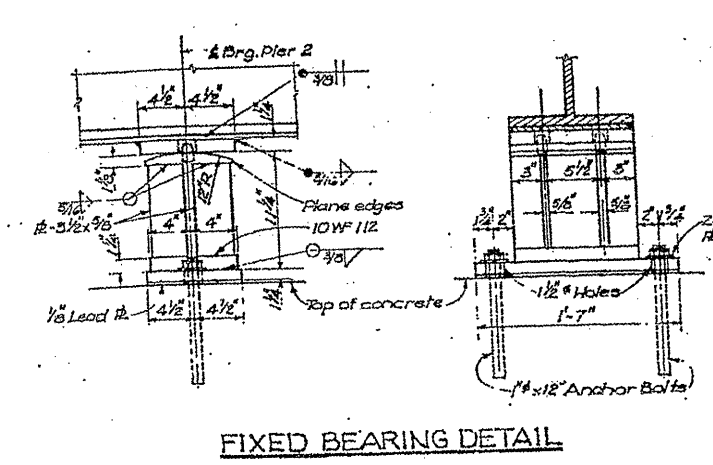
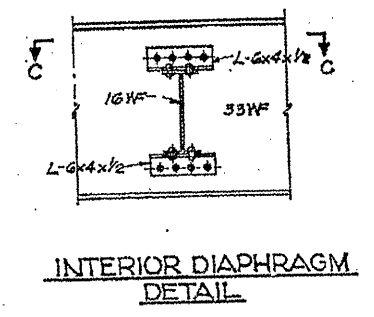
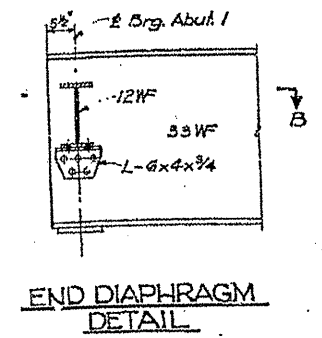
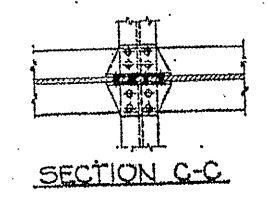
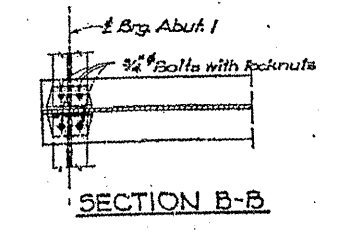
EXISTING BRIDGE PLAN

LOCATION 1: SN 045-0035
LOCATION 2: SN 045-0036
IL 56 (EB & WB) OVER IL47

form date: 5/05/2003 s:\contracts-maintenance\wp\11x17\plans\60k48 am\bridge plan 045-0035, 0036.doc

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2010-023 BP	VARIOUS	93	19

CONTRACT NO. 60K48



ILLINOIS DEPARTMENT OF
TRANSPORTATION

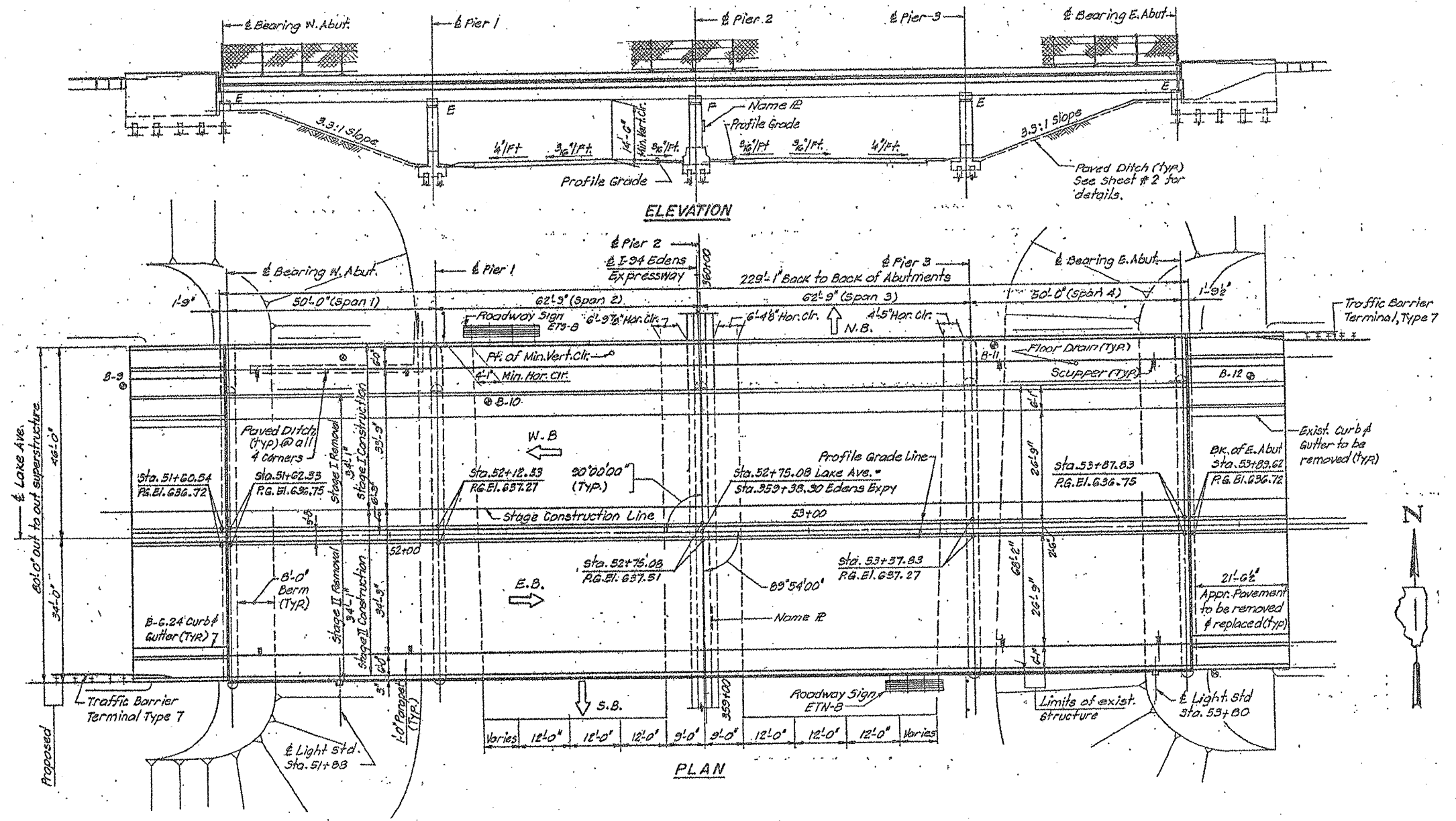
EXISTING BRIDGE PLAN

LOCATION 1: SN 045-0035
LOCATION 2: SN 045-0036
IL 56 (EB & WB) OVER IL47

SH. 3 of 3

ROUTE VARIOUS	SECTION 2010-023 BP	COUNTY VARIOUS	TOTAL SHEETS 93	SHEET NUMBER 20
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CONTRACT NO. 60K48



ILLINOIS DEPARTMENT OF
TRANSPORTATION

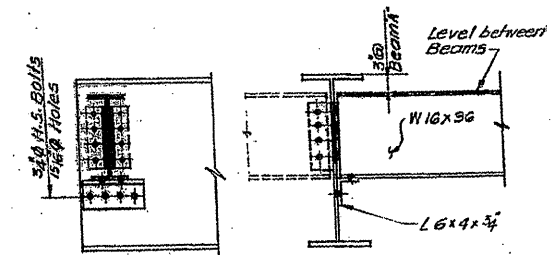
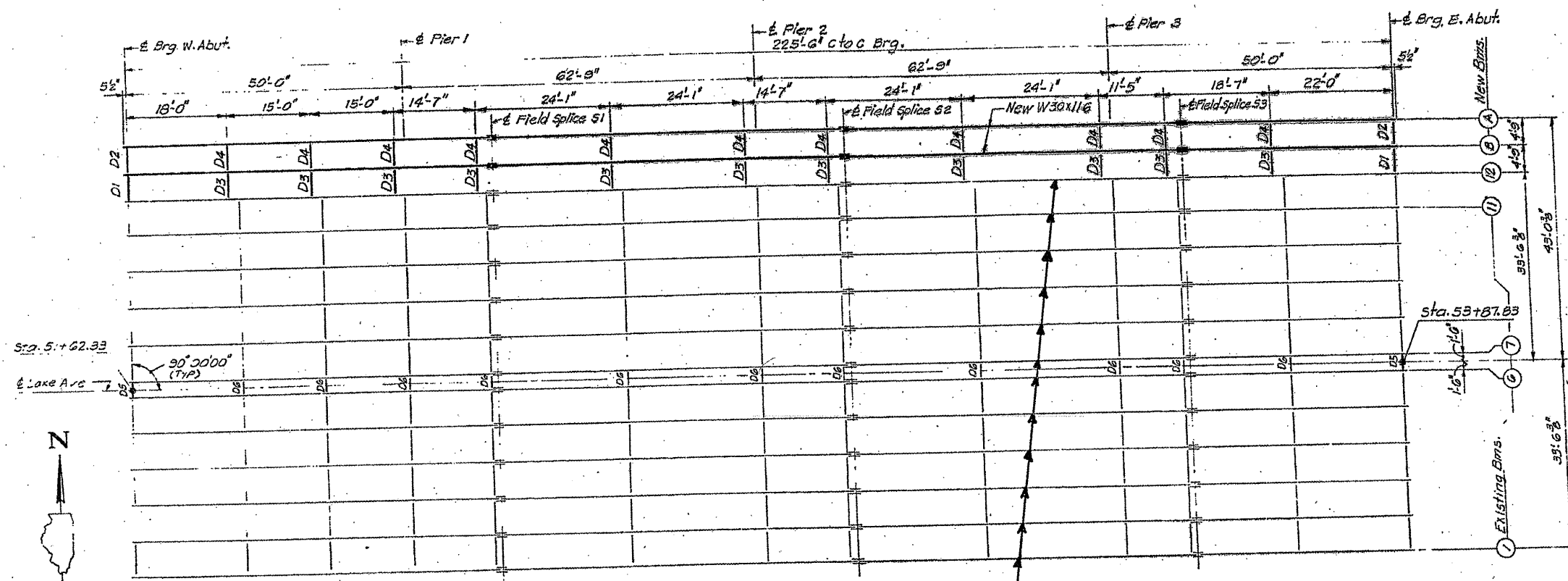
EXISTING BRIDGE PLAN

LOCATION 3: SN 016-0545
LAKE AVE. OVER I-94

SH. 1 of 3

ROUTE VARIOUS	SECTION 2010-023 BP	COUNTY VARIOUS	TOTAL SHEETS 93	SHEET NUMBER 21
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CONTRACT NO. 60K48



DIAPHRAGM D1, D2 & D5
 D1 (2 Required)
 D2 (2 Required)
 D5 (2 Required)

PLAN

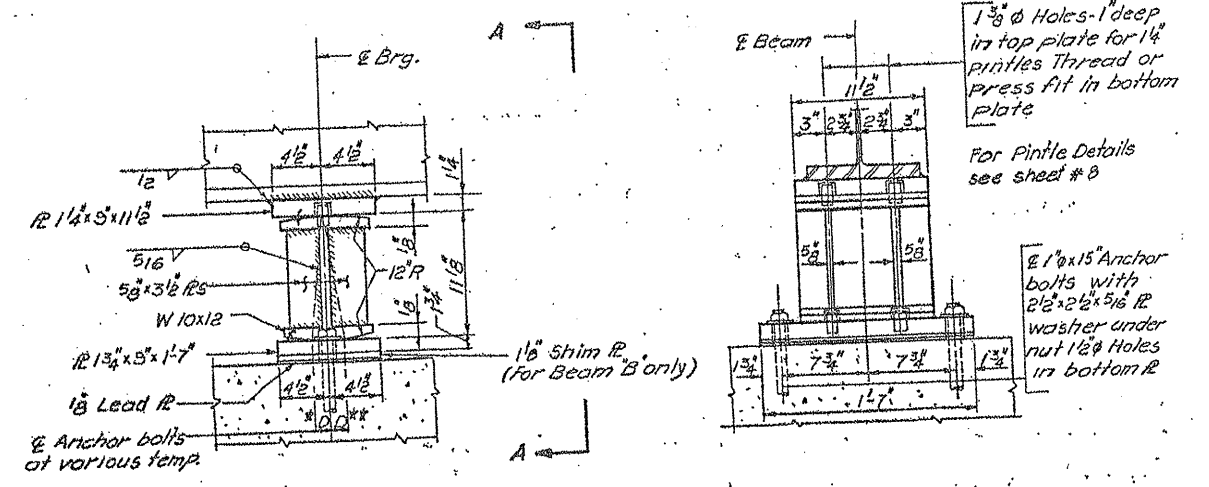
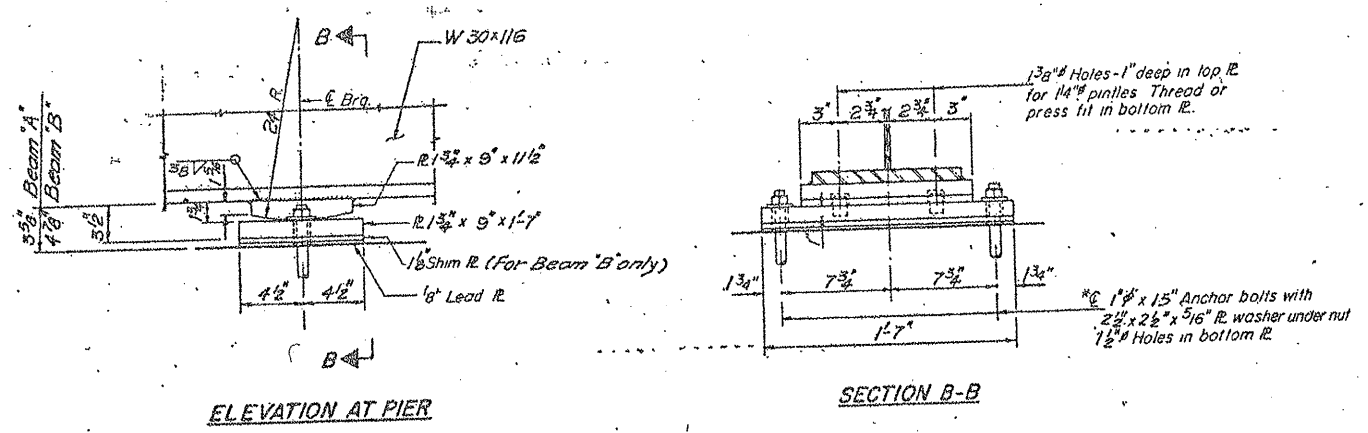
BEAMS ① - ⑫ 30 WF 124
 - ALL DIAPHRAGMS 16 WF 36

ILLINOIS DEPARTMENT OF
 TRANSPORTATION
 EXISTING BRIDGE PLAN
 LOCATION 3: SN 016-0545
 LAKE AVE. OVER I-94

SH. 2 of 3

ROUTE VARIOUS	SECTION 2010-023 BP	COUNTY VARIOUS	TOTAL SHEETS 93	SHEET NUMBER 22
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CONTRACT NO. 60K48

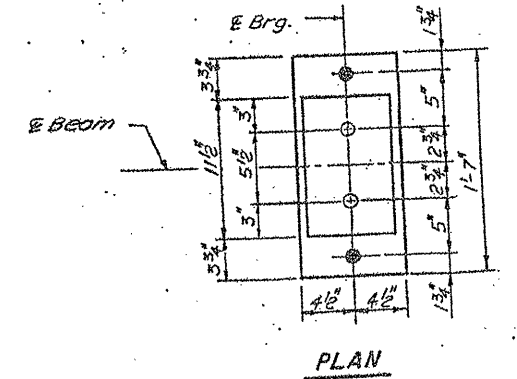
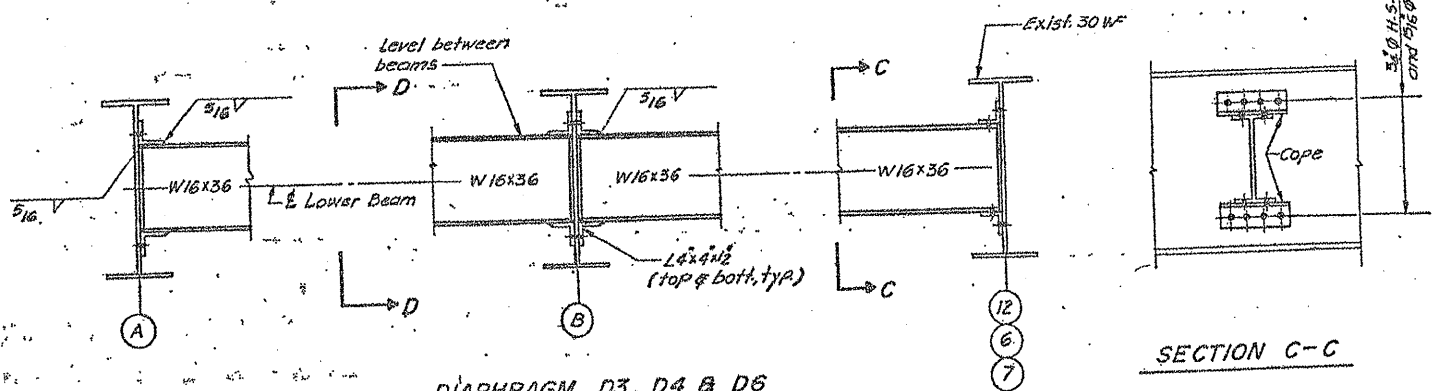
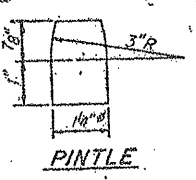


ELEVATION AT PIER

FIXED BEARING (AT PIER 2)

ELEVATION

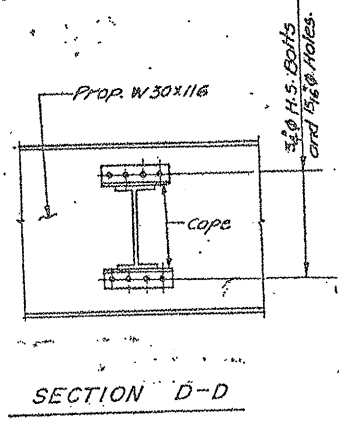
VIEW A-A



Notes on setting of Anchor bolts of Exp. Brgs.

- a) D* (Side of brg. away from fixed Brg.)
D* = 1/8" per each 100' of expansion for every 15° fall below the normal temp. of 50°F.
- D** (Side of brg. toward fixed Brg.)
D** = 1/8" per each 100' of expansion for every 15° rise above the normal temp. of 50°F.
- b) After beams have been erected and dimensions D* or D** determined, holes shall be drilled and anchor bolts shall be installed as shown on sheet. All fixed anchor bolts may be built into the masonry.

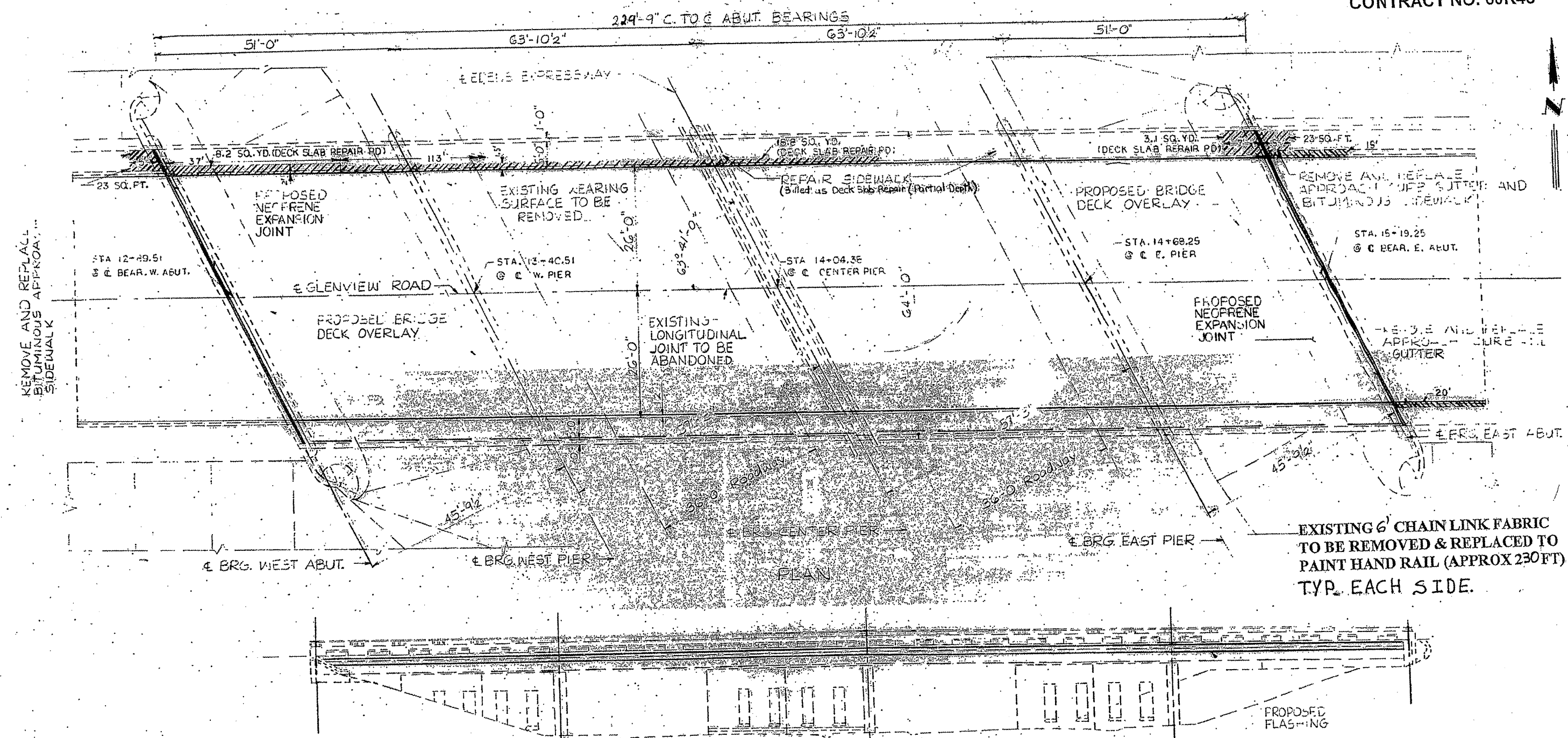
EXPANSION BEARING
(AT PIERS 1 & 3)
(FOR NEW BEAMS)



ILLINOIS DEPARTMENT OF TRANSPORTATION
EXISTING BRIDGE PLAN
LOCATION 3: SN 016-0545
LAKE AVE. OVER I-94

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2010-023 BP	VARIOUS	93	23

CONTRACT NO. 60K48



ELEVATION

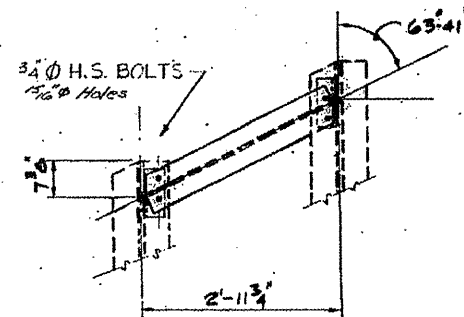
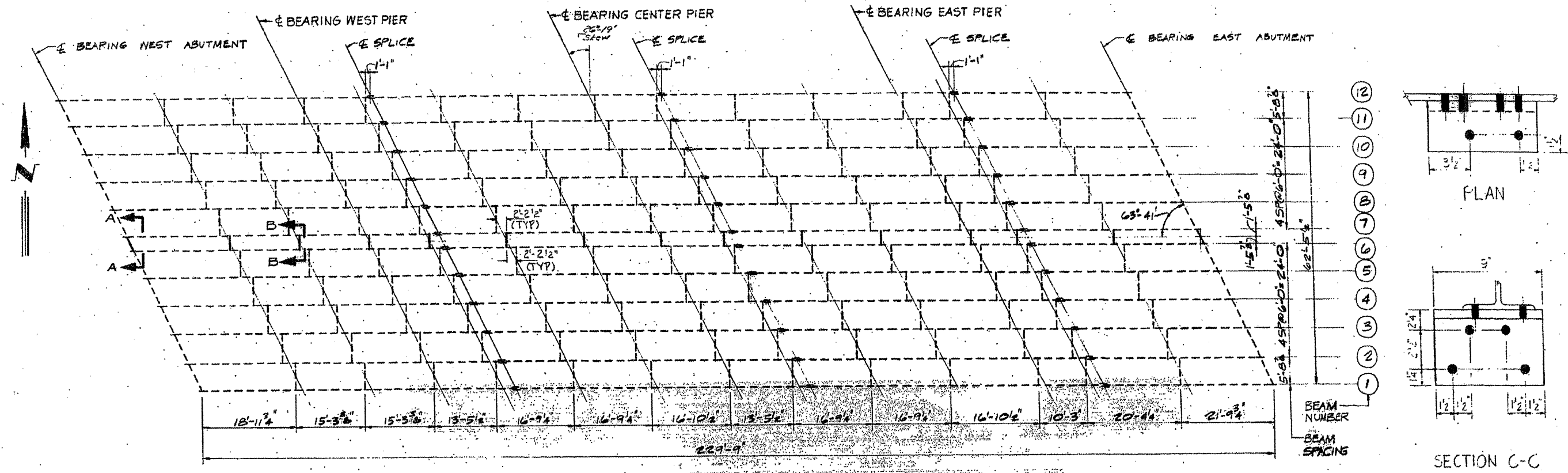
GLENVIEW
 EXISTING STRUCTURE NO. 016-0821 AT STA. 14+04.36 BUILT IN 1949 FEDERAL-AID HIGHWAY F.A. ROUTE 99
 PROJECT U.I. 146(40) ELEV. EXPRESSWAY SECTION 267-0808-1-150
 EXISTING WEARING SURFACE AND LONGITUDINAL JOINTS TO BE REMOVED. EXISTING EXPANSION DEVICES TO BE
 REMOVED AND REPLACED WITH NEOPRENE. EXISTING DECK TO BE REPAIRED AND OVERLAIN WITH BRIDGE DECK CONCRETE
 OVERLAY AS PER DEPT. NEW DRAIN PLATES TO BE PLACED. NEW DIAPHRAGMS TO BE PLACED. EXISTING
 PIERS TO BE REPAIRED. EXISTING BEARINGS TO BE REALIGNED AND PAINTED.
 TWO-WAY TRAFFIC SHALL BE MAINTAINED BY UTILIZING STAGE CONSTRUCTION.

ILLINOIS DEPARTMENT OF
 TRANSPORTATION
 EXISTING BRIDGE PLAN
 LOCATION 4: SN 016-0821
 GLENVIEW RD. OVER I-94

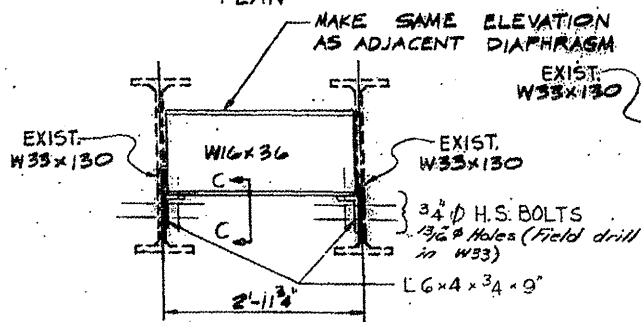
SH. 1 of 4

ROUTE VARIOUS	SECTION 2010-023 BP	COUNTY VARIOUS	TOTAL SHEETS 93	SHEET NUMBER 24
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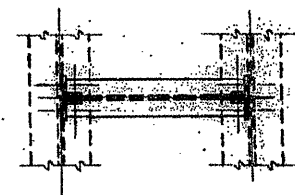
CONTRACT NO. 60K48



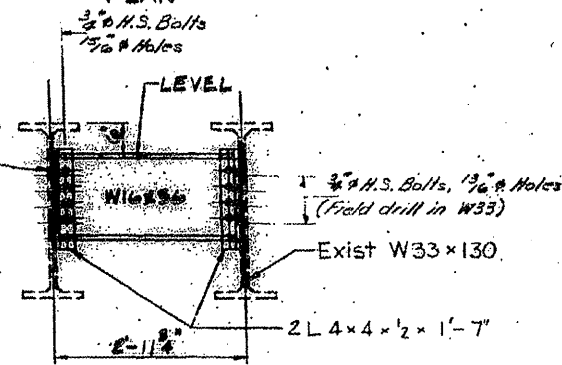
PLAN



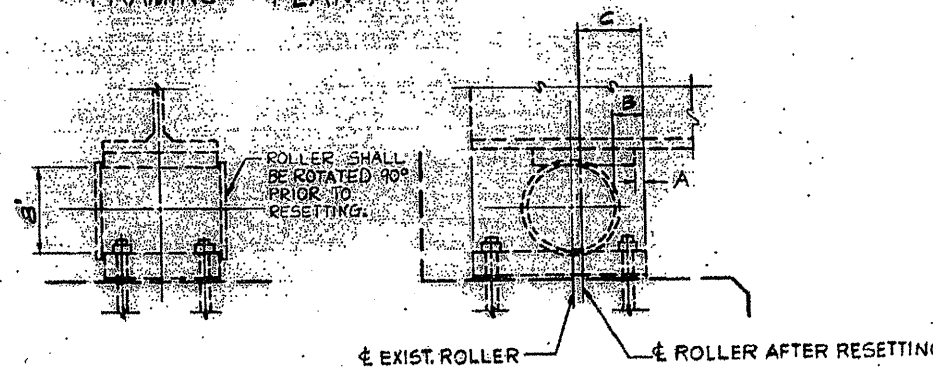
SECTION A-A



PLAN



SECTION B-B



ALL BEAMS W33x130

ALL DIAPHRAGMS W16x36

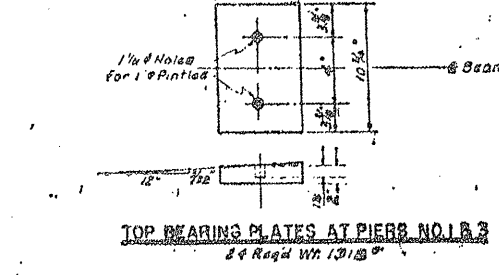
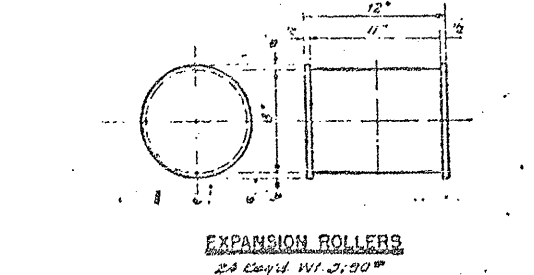
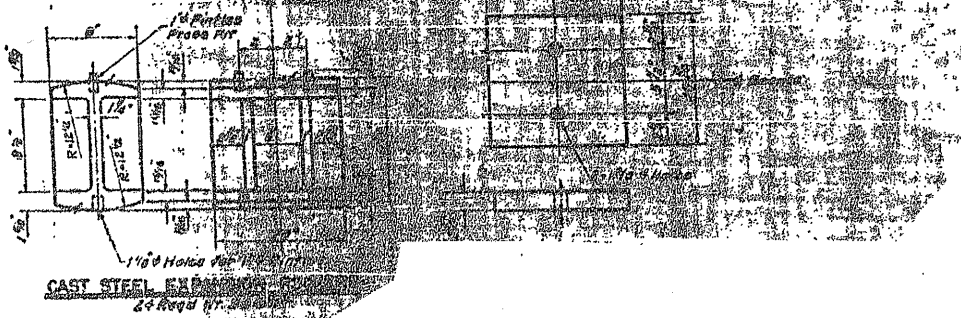
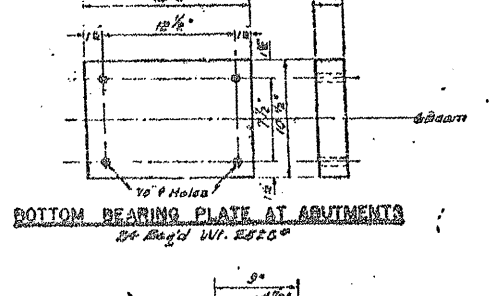
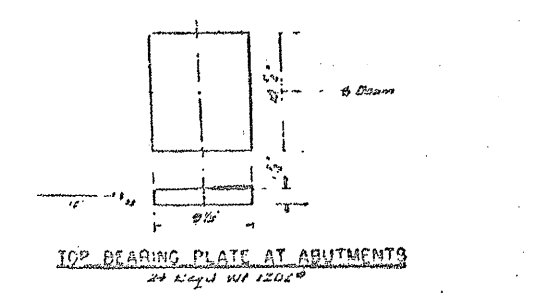
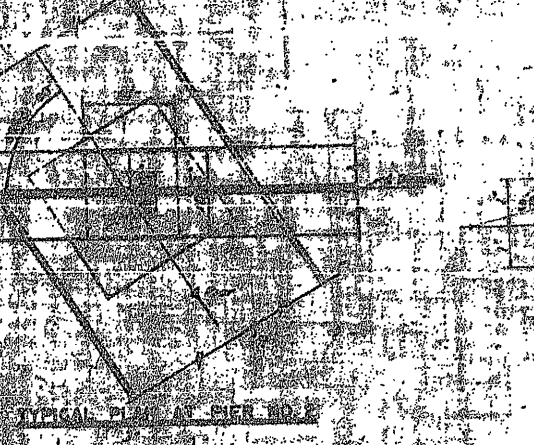
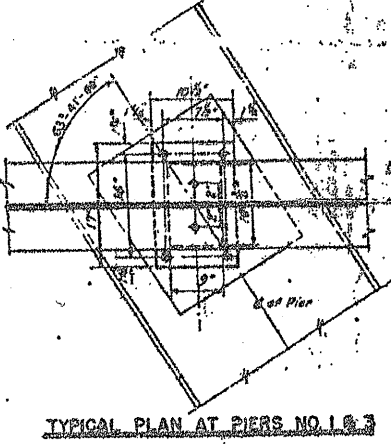
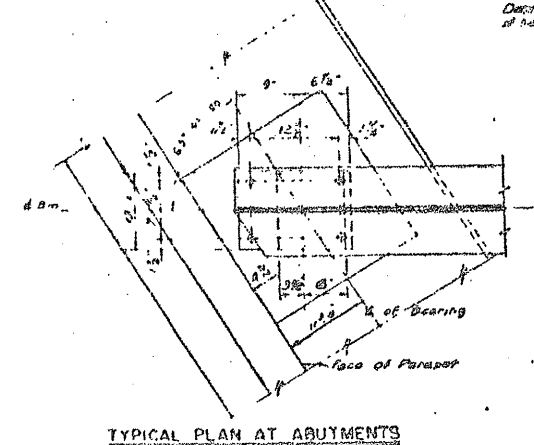
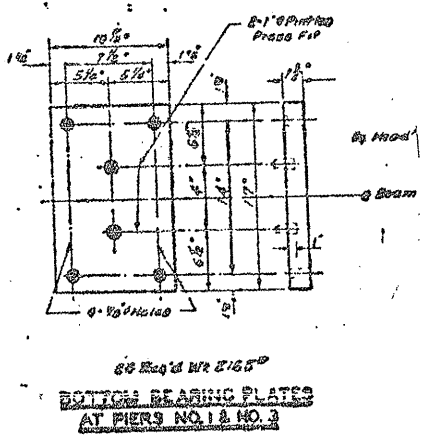
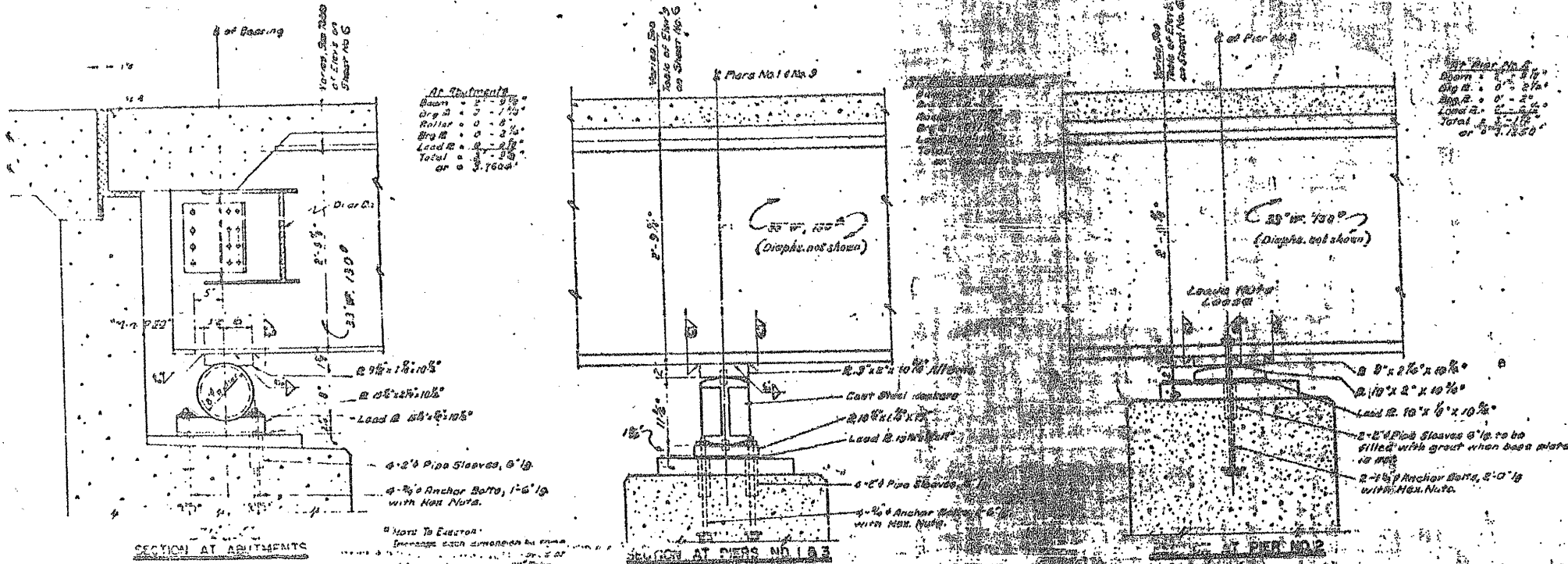
ILLINOIS DEPARTMENT OF
TRANSPORTATION

EXISTING BRIDGE PLAN

LOCATION 4: SN 016-0821
GLENVIEW RD. OVER I-94

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2010-023 BP	VARIOUS	93	25

CONTRACT NO. 60K48

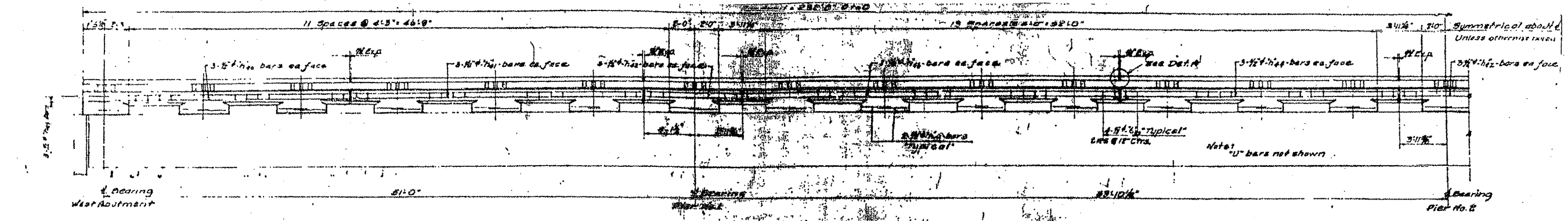


ILLINOIS DEPARTMENT OF TRANSPORTATION
EXISTING BRIDGE PLAN
 LOCATION 4: SN 016-0821
 GLENVIEW RD. OVER I-94

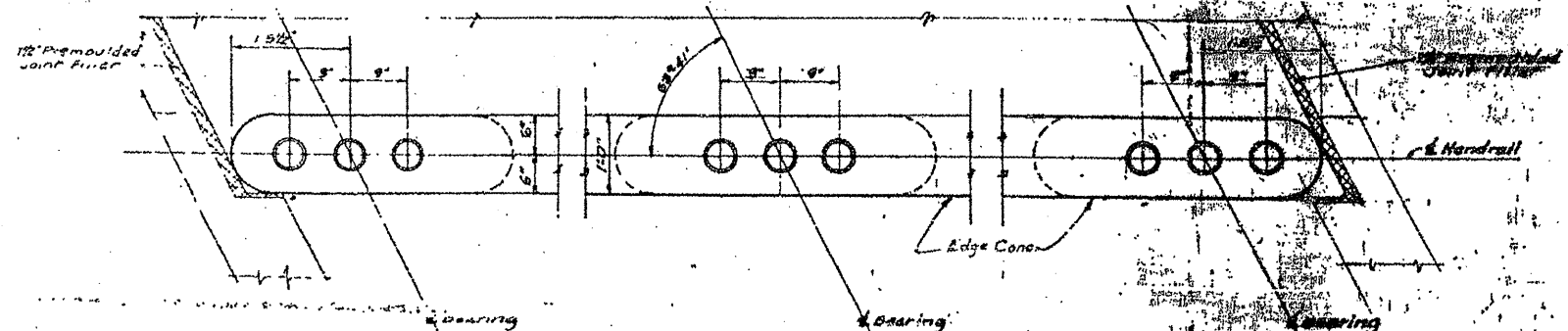
SH. 3 of 4

ROUTE VARIOUS	SECTION 2010-023 BP	COUNTY VARIOUS	TOTAL SHEETS 93	SHEET NUMBER 26
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CONTRACT NO. 60K48



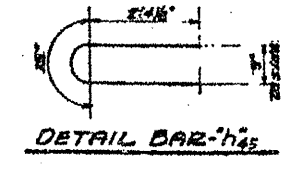
ELEVATION - HANDRAIL



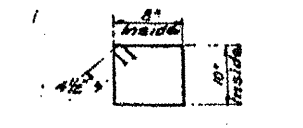
PLAN AT WEST ABUTMENT

PLAN AT PIER NO. 2

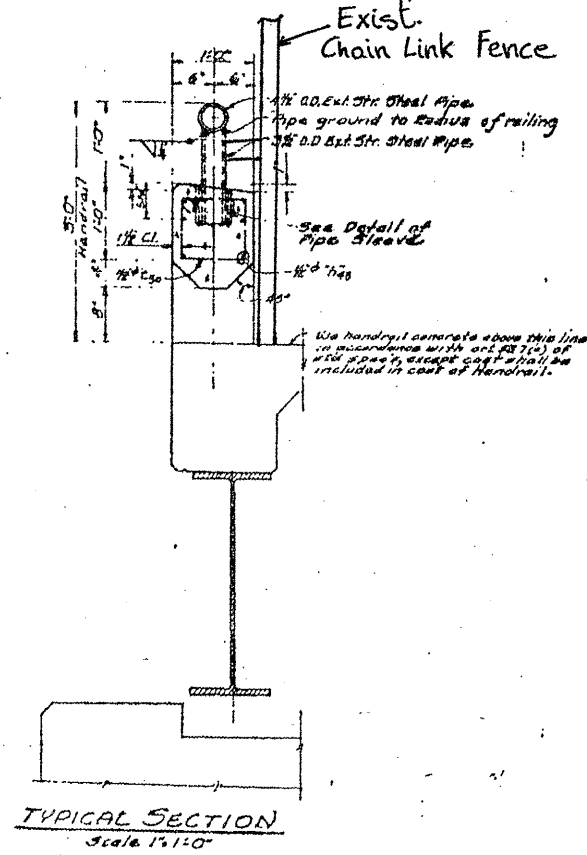
PLAN AT EAST ABUTMENT



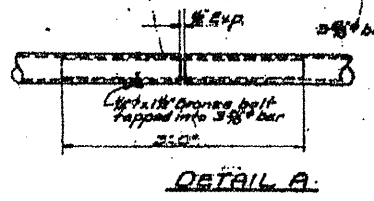
DETAIL BAR - #4



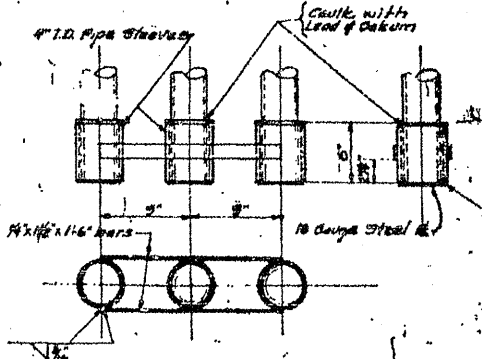
DETAIL BAR - #30



TYPICAL SECTION
Scale 1/4"=1'-0"



DETAIL A



DETAIL - PIPE SLEEVES

Scale 1/4"=1'-0"
Pipe Sleeves Req'd. 174
1/2" x 1/2" Bars Req'd. 116

ILLINOIS DEPARTMENT OF
TRANSPORTATION

EXISTING BRIDGE PLAN

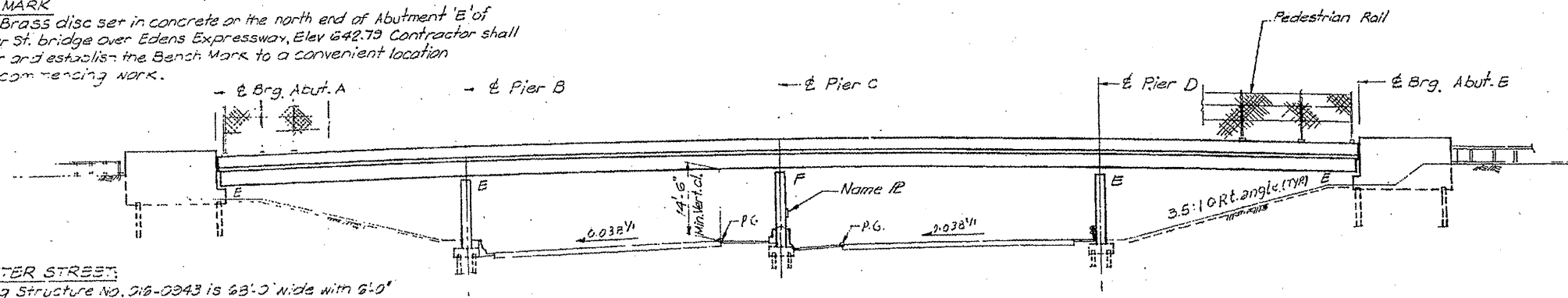
LOCATION 4: SN 016-0821
GLENVIEW RD. OVER I-94

SH 4 of 4

ROUTE VARIOUS	SECTION 2010-023 BP	COUNTY VARIOUS	TOTAL SHEETS 93	SHEET NUMBER 27
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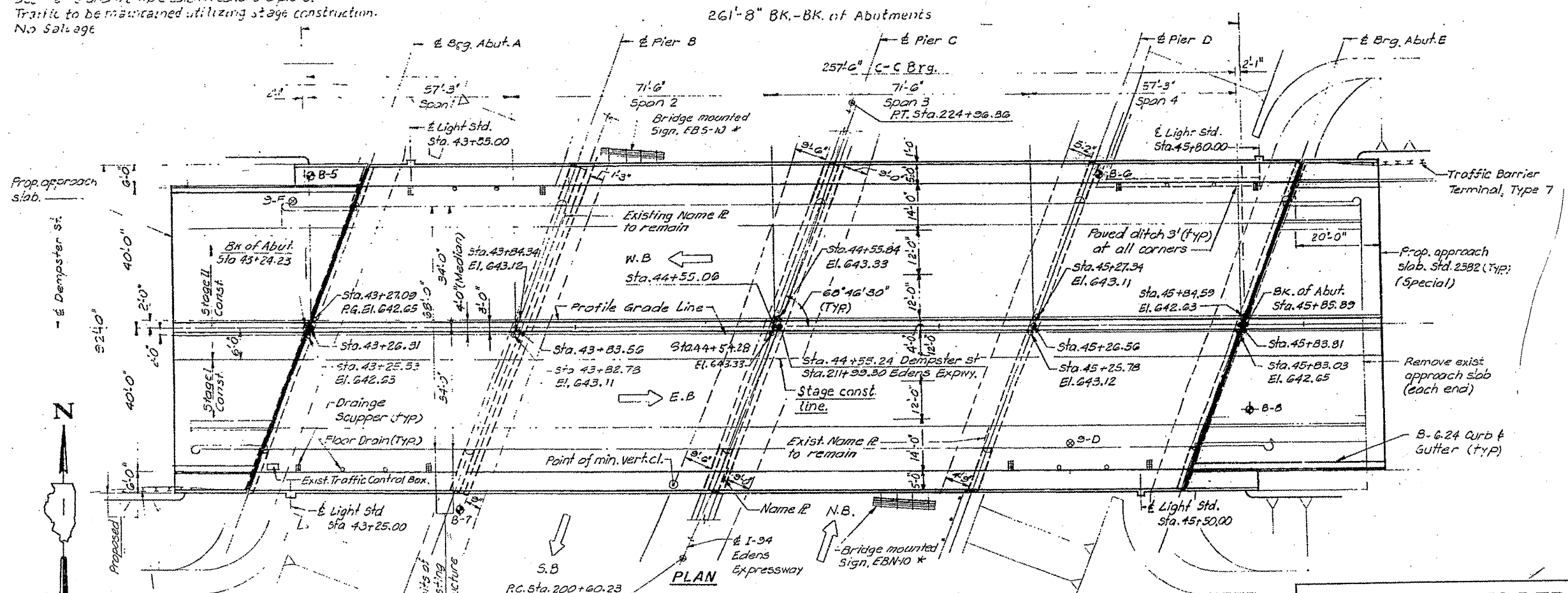
CONTRACT NO. 60K48

BENCH MARK
 C.C.H.D Brass disc set in concrete on the north end of Abutment 'E' of Dempster St. bridge over Edens Expressway, Elev 642.79 Contractor shall transfer and establish the Bench Mark to a convenient location before commencing work.



ELEVATION

DEMPSTER STREET:
 Existing Structure No. 016-0943 is 68'-0" wide with 6'-0" wide sidewalks on each side. The deck is concrete slab supported on four spans 57'-3", 71'-6", 71'-6" & 57'-3" continuous wide flange beams. The substructure consists of stub type columns and multiple column concrete piers.
 Traffic to be maintained utilizing stage construction.
 No Sal. age



PLAN

ILLINOIS DEPARTMENT OF
 TRANSPORTATION

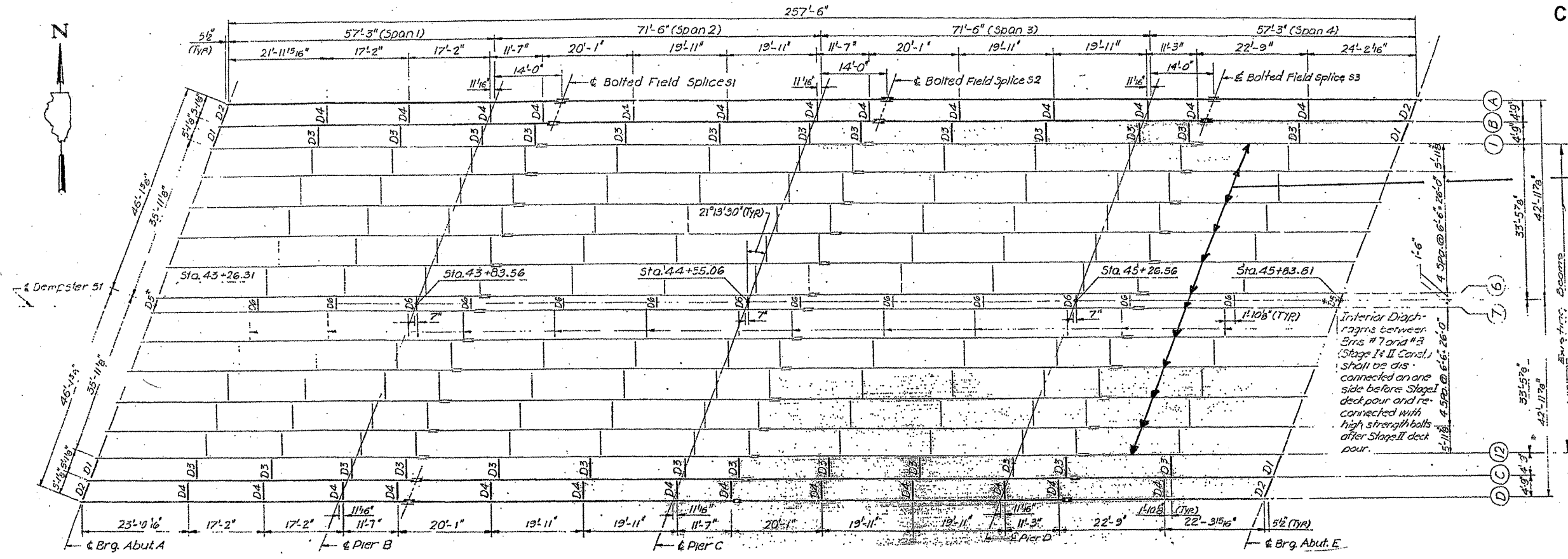
EXISTING BRIDGE PLAN

LOCATION 5: SN 016-0943
 IL 58 (DEMPSTER ST.) OVER I-94

SH. 1 of 3

ROUTE VARIOUS	SECTION 2010-023 BP	COUNTY VARIOUS	TOTAL SHEETS 93	SHEET NUMBER 28
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CONTRACT NO. 60K48

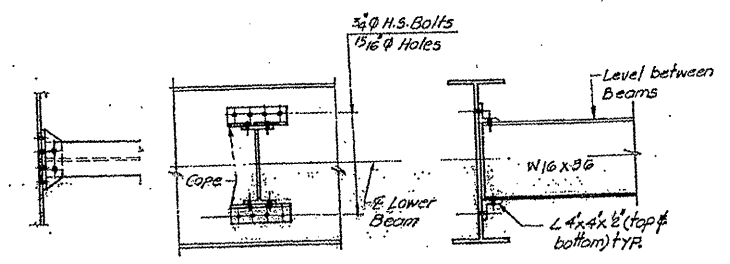


BEAMS ① - ⑫
33 WF 141

BEAMS
① ② ③ & ④
W 33 x 130

Interior Diaphragms between Spans # 1 and # 2 (Stage I & II Const.) shall be disconnected on one side before Stage I deck pour and re-connected with high strength bolts after Stage II deck pour.

FRAMING PLAN



INTERIOR DIAPHRAGMS

- D3 (26 Required)
- D4 (26 Required)
- D6 (13 Required)

END DIAPHRAGMS BETWEEN BEAMS ① & ⑫ 12 WF 40

INTERIOR DIAPHRAGMS BETWEEN BEAMS ① & ⑫ 16 WF 36

SH 2 of 3

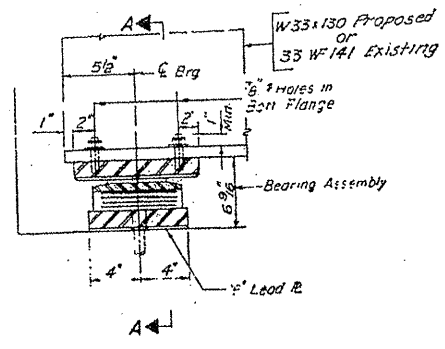
ILLINOIS DEPARTMENT OF
TRANSPORTATION

EXISTING BRIDGE PLAN

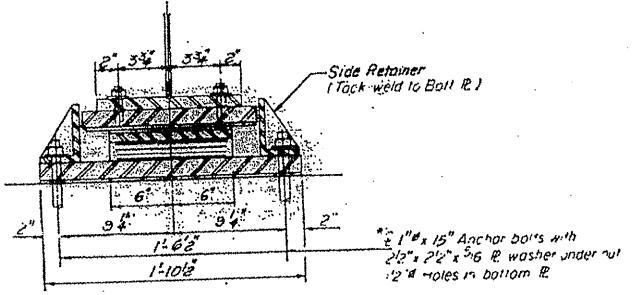
LOCATION 5: SN 016-0943
IL 58 (DEMPSTER ST.) OVER I-94

ROUTE VARIOUS	SECTION 2010-023 BP	COUNTY VARIOUS	TOTAL SHEETS 93	SHEET NUMBER 29
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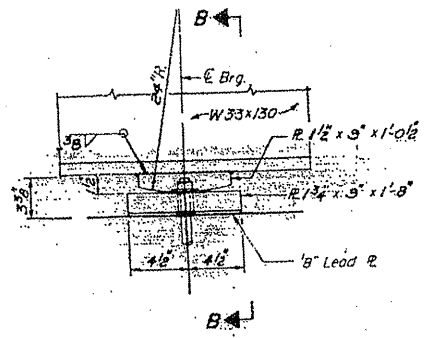
CONTRACT NO. 60K48



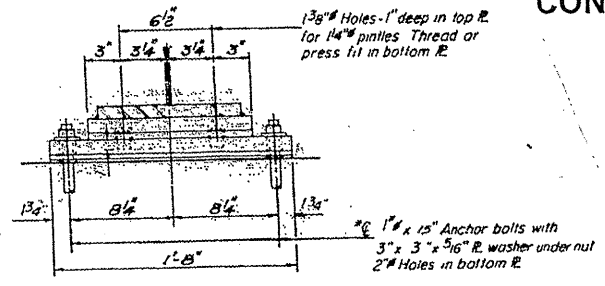
SECTION AT ABUT.



SECTION A-A



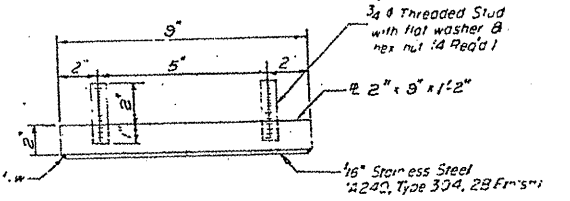
ELEVATION AT PIER



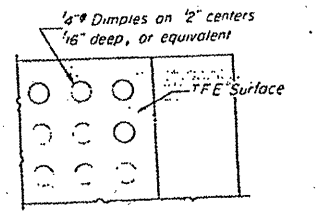
SECTION B-B

TYPE II TFE ELASTOMERIC EXP BRG.
(ABUTMENTS "A" & "E")

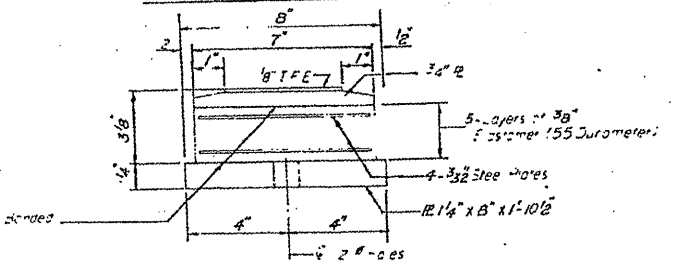
Note: After girders have been erected holes of expansion bearings shall be drilled and anchor bolts grouted in place. Anchor bolts at fixed bearings may be built into the masonry. See sheet No. 22 for Anchor Bolt installation details.



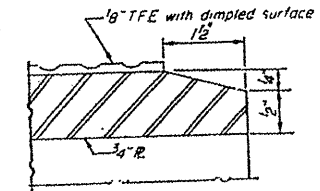
TOP BEARING ASSEMBLY



PLAN-TFE SURFACE



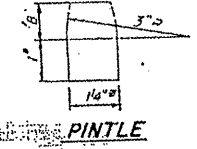
BOTTOM BEARING ASSEMBLY



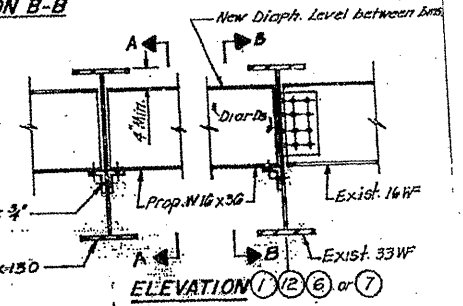
SECTION THRU TFE

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 and the process and method of adjusting assembly height is approved by the Engineer.

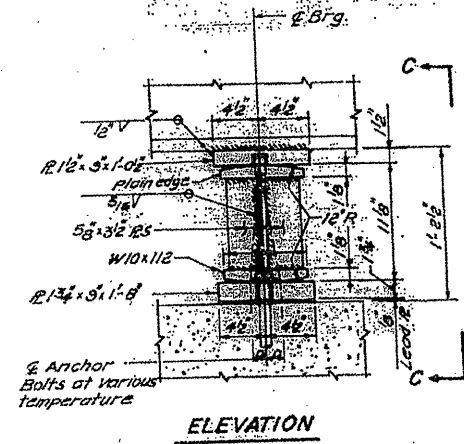
FIXED BEARING (AT PIER "C") (4-Required)



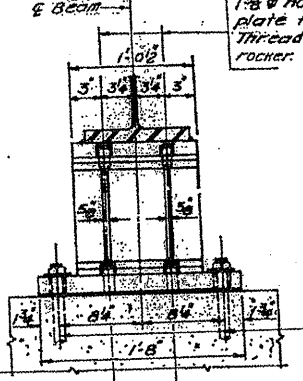
PINTLE



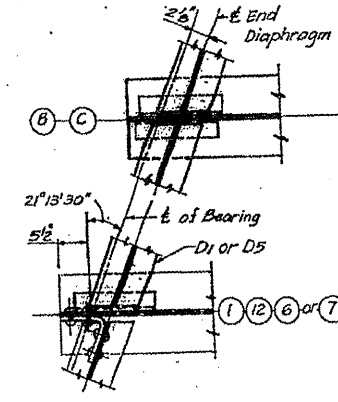
ELEVATION (1)(2)(6) or (7)



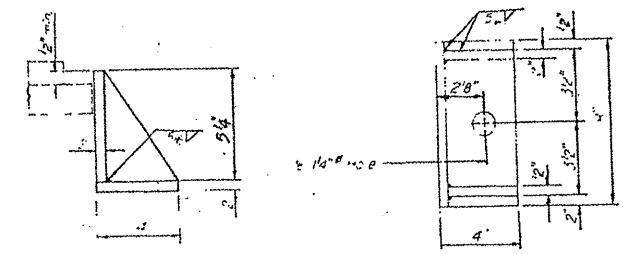
ELEVATION



VIEW C-C

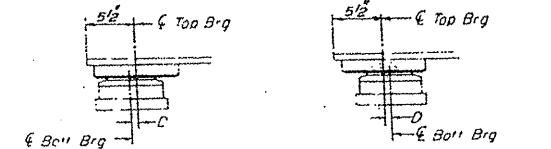


PLAN



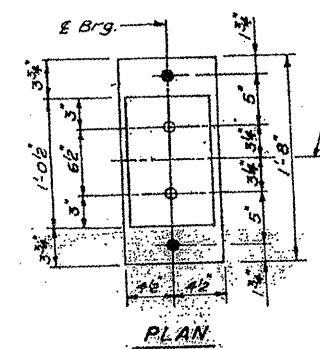
SIDE RETAINER

(Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates)



SETTING ANCHOR BOLTS AT EXP BRG.

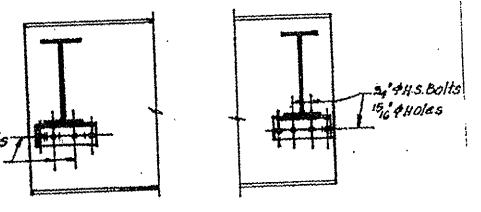
D = 1/8" for each 100" of expansion for every 15° temp change from the normal temp at 50°F.



PLAN

EXPANSION BEARING (AT PIER "B" & "D") (6-Required)

** Remove existing bearing including top plate welded to the beam. Grind 1/4" continuous fillet weld smooth after removing top plate. Anchor bolts to be left in place & out flush with surface. The contractor shall submit the jacking detail of existing stringers and the sequence of operations for an approval by the Engineer. Minimum Jacking Force = 10T/Beam.



SECTION A-A

SECTION B-B

END DIAPHRAGMS

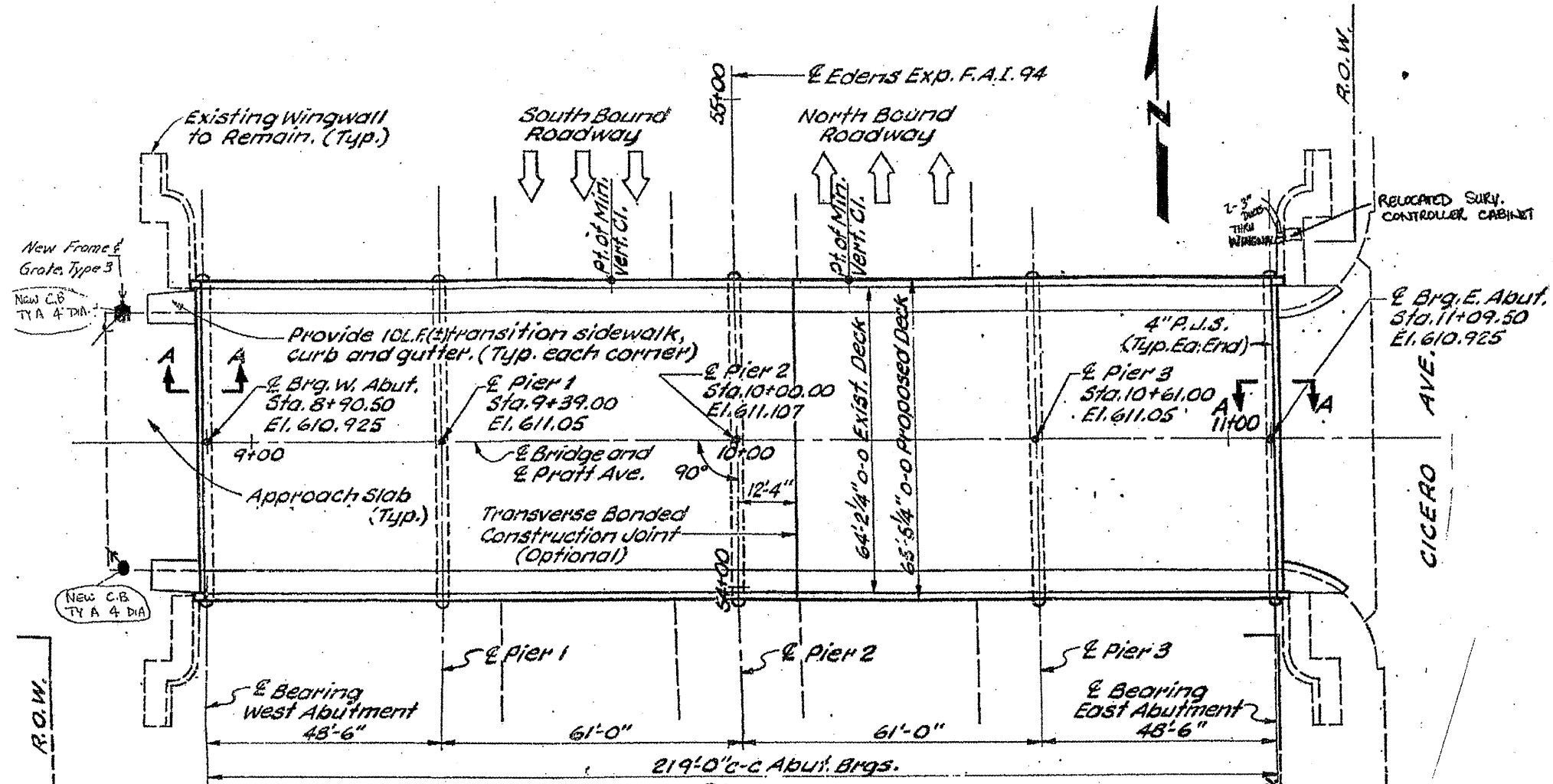
ILLINOIS DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLAN

LOCATION 5: SN 016-0943
IL 58 (DEMPSTER ST.) OVER I-94

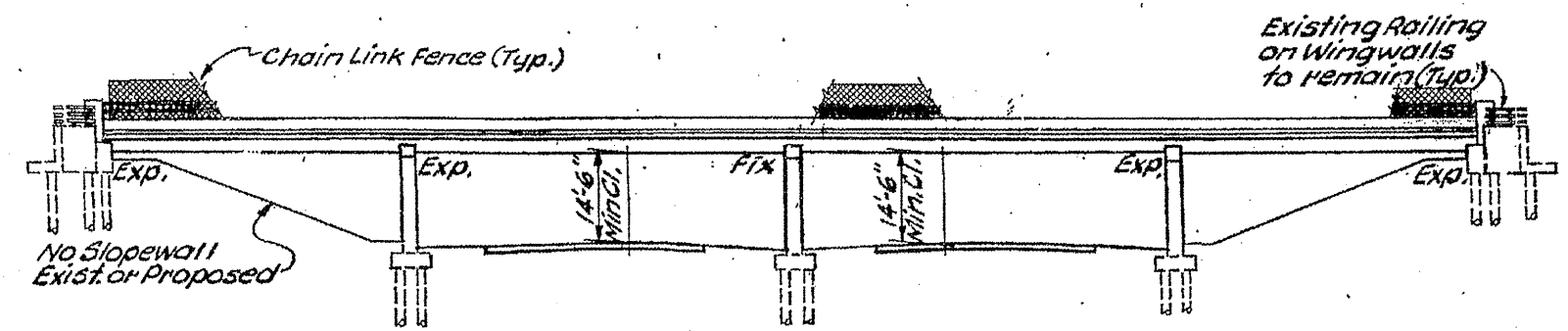
ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2010-023 BP	VARIOUS	93	30

CONTRACT NO. 60K48



PLAN

Note: This is an alteration plan. For details of existing bridge see original plans by Cook County Highway Dept.



ELEVATION

EXISTING 6' CHAIN LINK FABRIC TO BE REMOVED & REPLACED TO PAINT HAND RAIL (APPROX 219 FT)

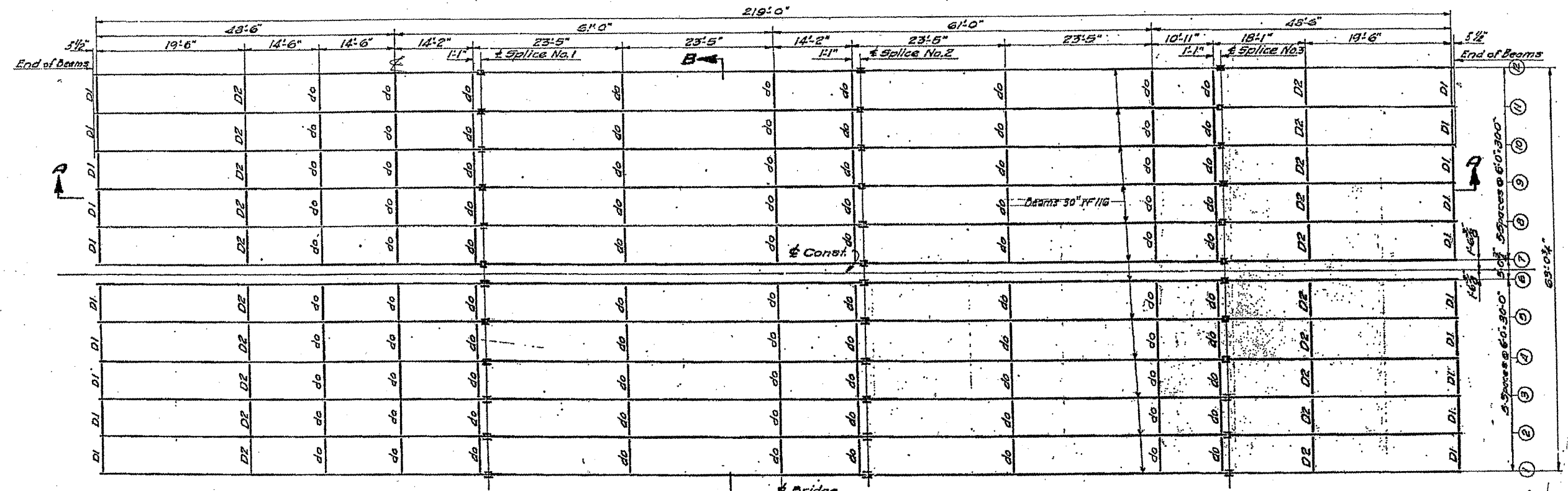
ILLINOIS DEPARTMENT OF TRANSPORTATION
 EXISTING BRIDGE PLAN
 LOCATION 6: SN 016-0831
 PRATT AVE. OVER I-94

SH. 1 of 7

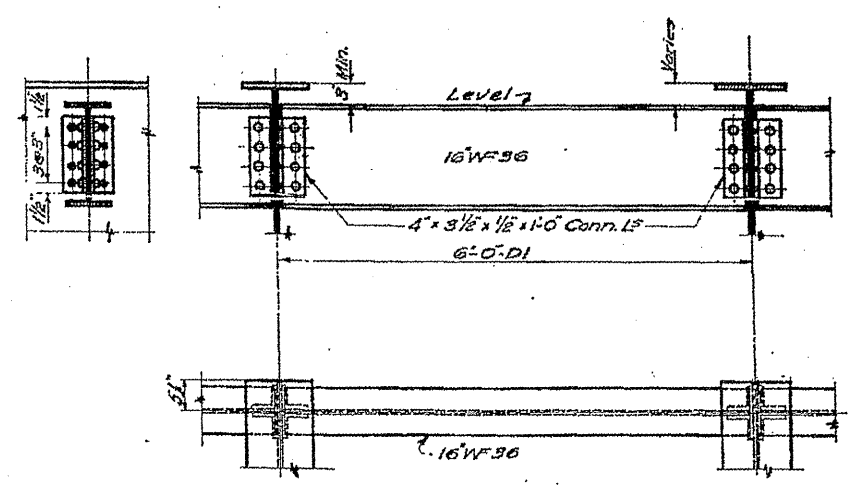
ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2010-023 BP	VARIOUS	93	31

CONTRACT NO. 60K48

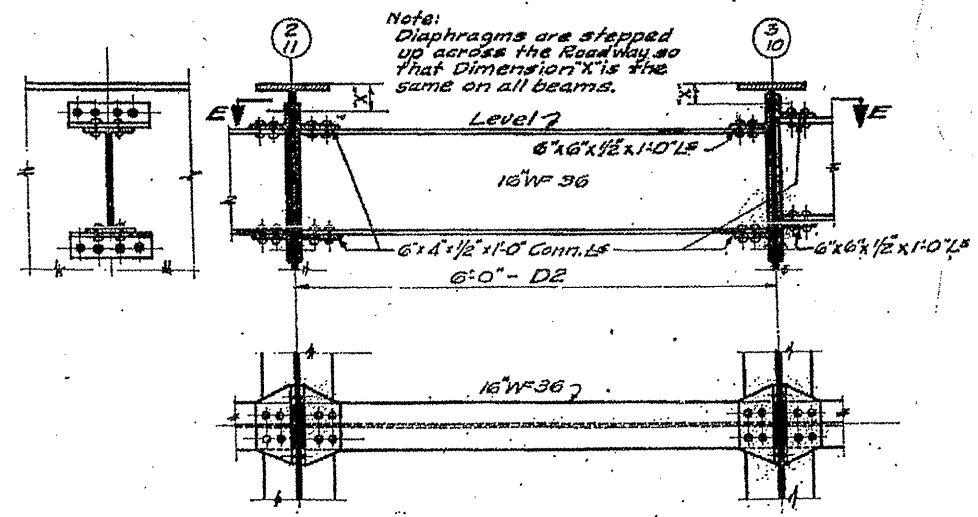
ELEVATION FACIA PLATE



← Bridge
FRAMING PLAN
Scale 1/8"=1'-0"



PLAN FOR DI



SECTION E-E

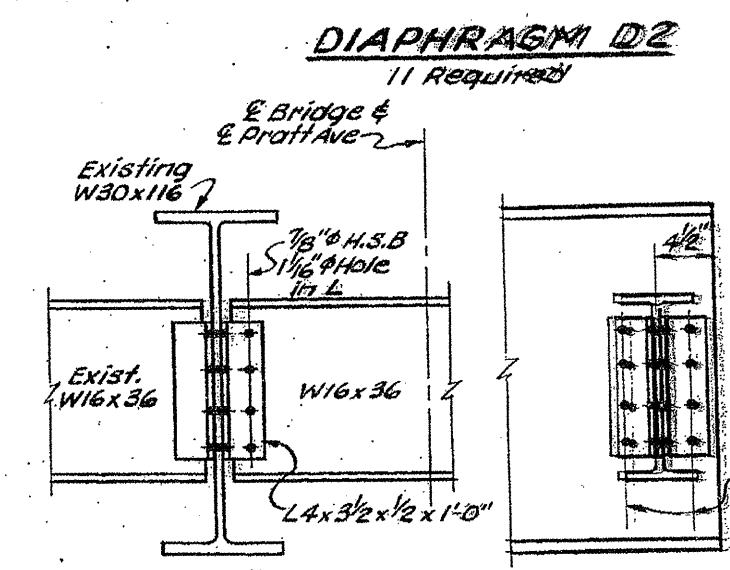
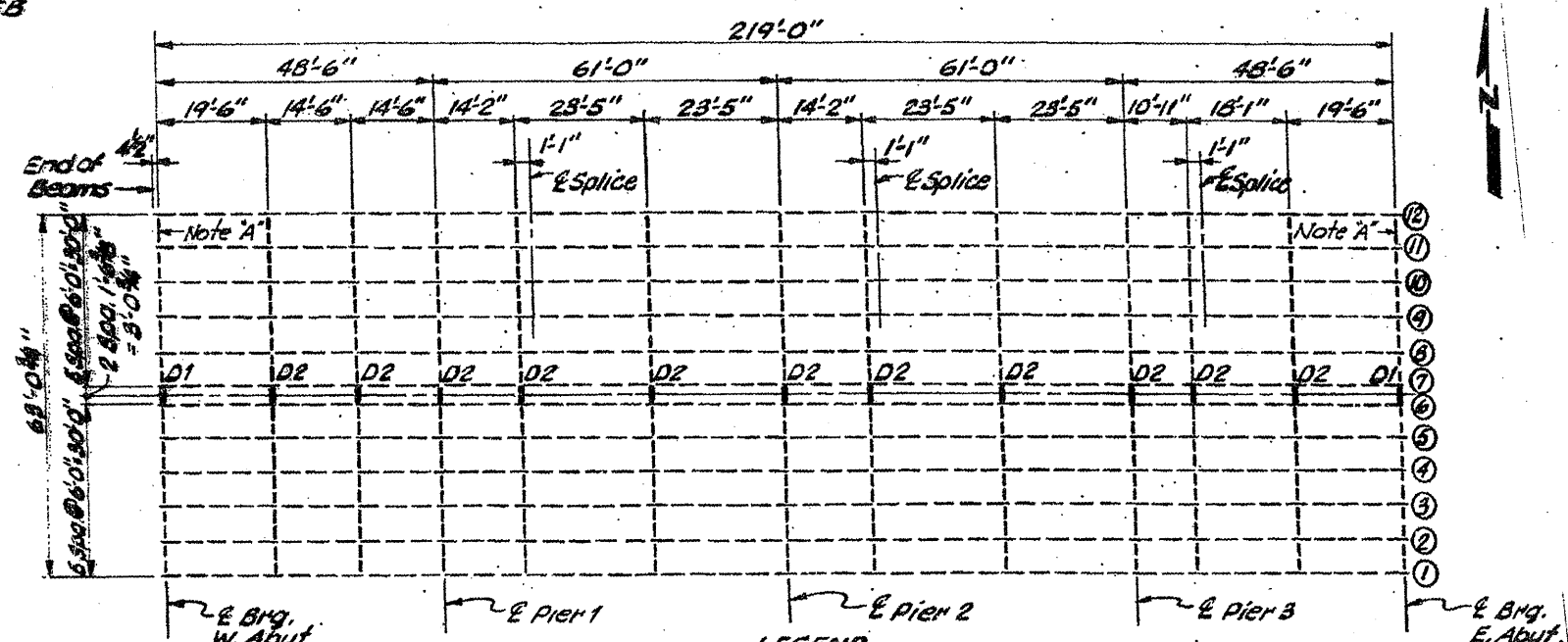
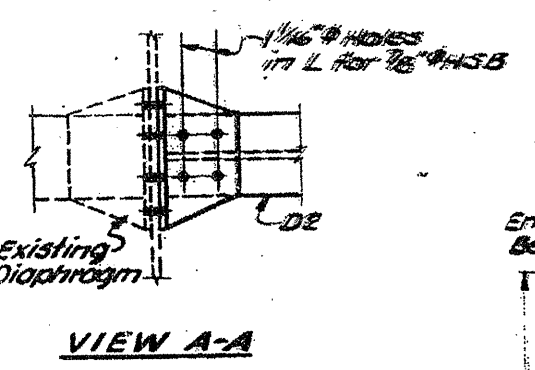
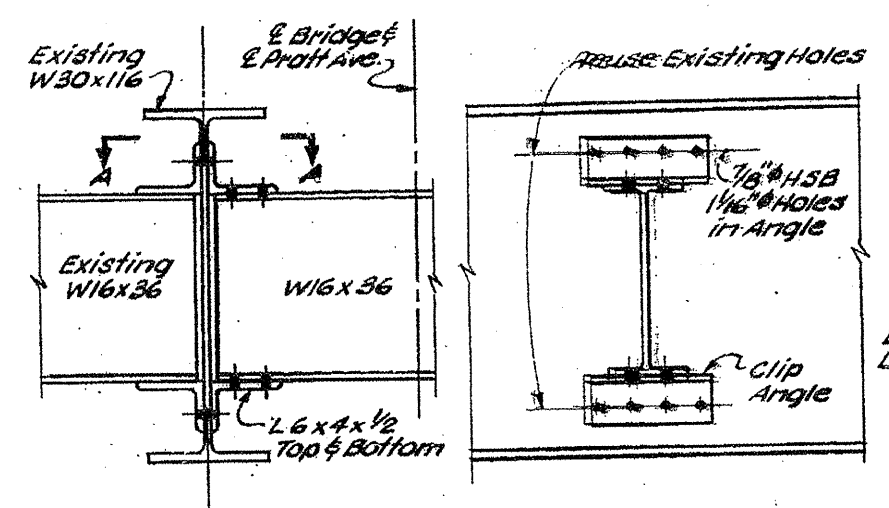
ILLINOIS DEPARTMENT OF
TRANSPORTATION

EXISTING BRIDGE PLAN

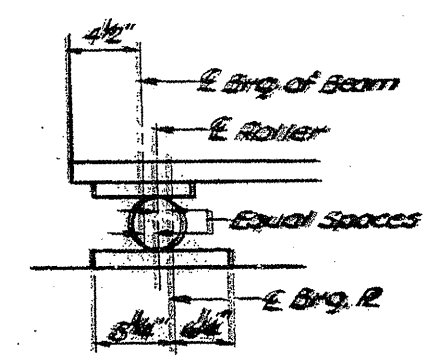
LOCATION 6: SN 016-0831
PRATT AVE. OVER I-94

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2010-023 BP	VARIOUS	93	32

CONTRACT NO. 60K48



Note: Hardened washers shall be used over 1/16\"/>



DETAIL FOR SETTING ROLLERS
(Shown for temperature of erection above 50°F)

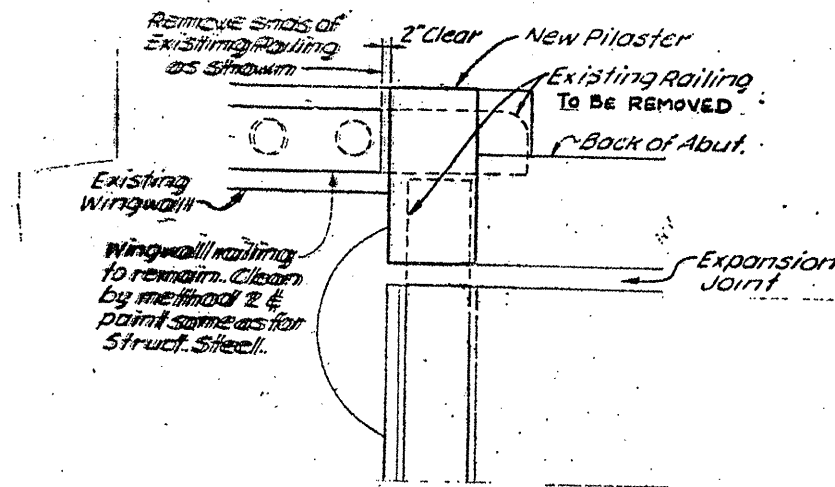
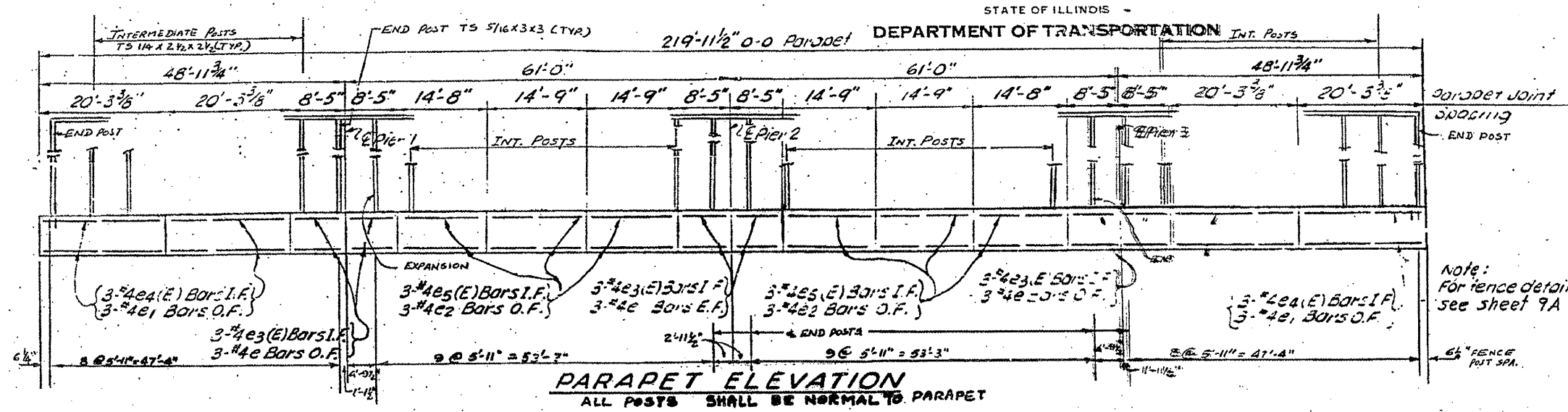
LEGEND
 - New Member (Diaphragms D1 & D2) or exist. member repositioned
 - Existing Member to remain

ILLINOIS DEPARTMENT OF
 TRANSPORTATION
 EXISTING BRIDGE PLAN
 LOCATION 6: SN 016-0831
 PRATT AVE. OVER I-94

SH. 3 of 7

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2010-023 BP	VARIOUS	93	34

CONTRACT NO. 60K48



ILLINOIS DEPARTMENT OF
TRANSPORTATION

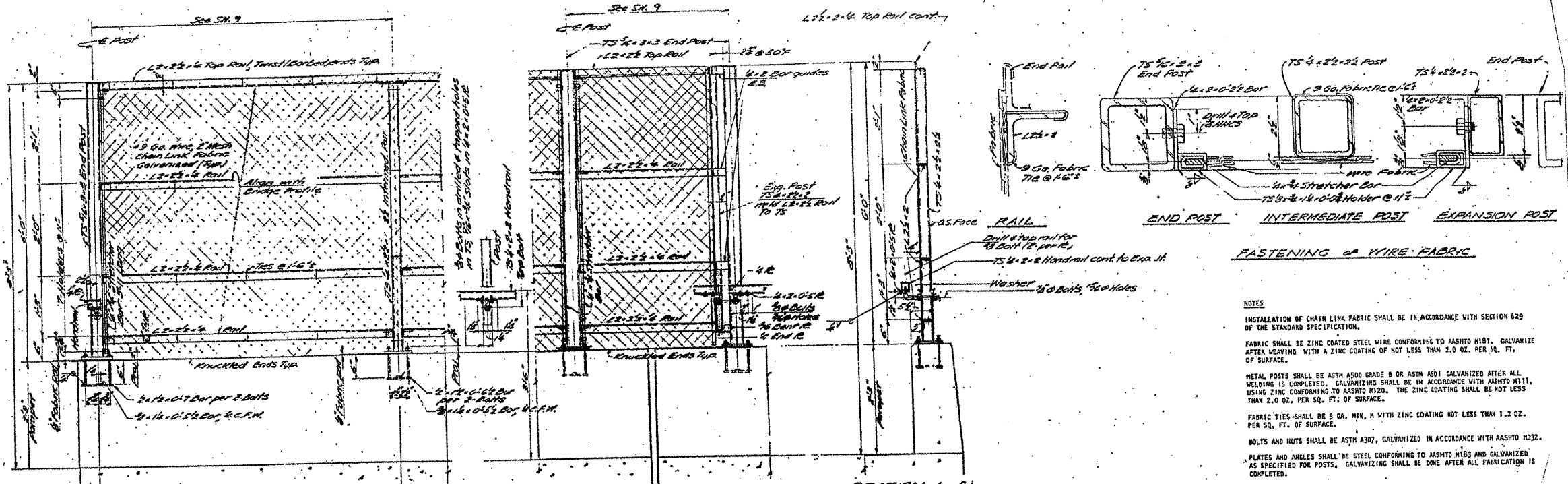
EXISTING BRIDGE PLAN

LOCATION 6: SN 016-0831
PRATT AVE. OVER I-94

SH. 5 of 7

ROUTE VARIOUS	SECTION 2010-023 BP	COUNTY VARIOUS	TOTAL SHEETS 93	SHEET NUMBER 35
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CONTRACT NO. 60K48



FASTENING OF WIRE FABRIC

NOTES

INSTALLATION OF CHAIN LINK FABRIC SHALL BE IN ACCORDANCE WITH SECTION 629 OF THE STANDARD SPECIFICATION.

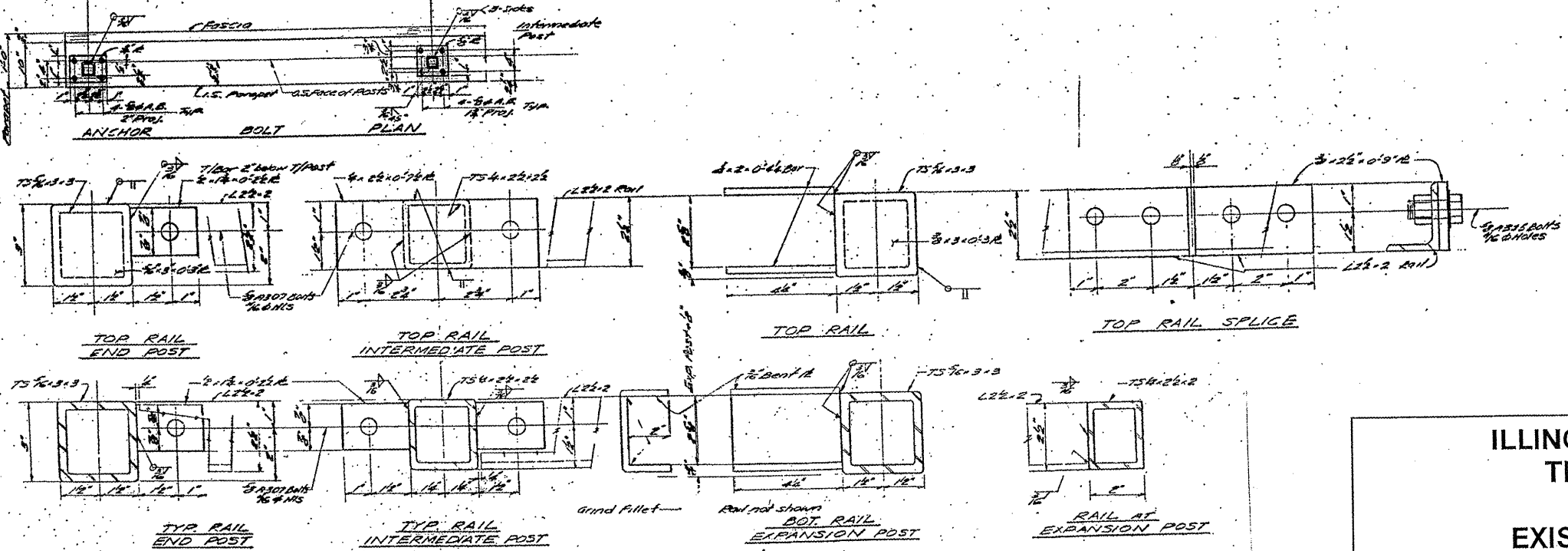
FABRIC SHALL BE ZINC COATED STEEL WIRE CONFORMING TO AASHTO M101. GALVANIZE AFTER WEAVING WITH A ZINC COATING OF NOT LESS THAN 2.0 OZ. PER SQ. FT. OF SURFACE.

METAL POSTS SHALL BE ASTM A500 GRADE B OR ASTM A501 GALVANIZED AFTER ALL WELDING IS COMPLETED. GALVANIZING SHALL BE IN ACCORDANCE WITH AASHTO M111, USING ZINC CONFORMING TO AASHTO M120. THE ZINC COATING SHALL BE NOT LESS THAN 2.0 OZ. PER SQ. FT. OF SURFACE.

FABRIC TIES SHALL BE 3 GA. MIN. WITH ZINC COATING NOT LESS THAN 1.2 OZ. PER SQ. FT. OF SURFACE.

BOLTS AND NUTS SHALL BE ASTM A307, GALVANIZED IN ACCORDANCE WITH AASHTO M332.

PLATES AND ANGLES SHALL BE STEEL CONFORMING TO AASHTO M183 AND GALVANIZED AS SPECIFIED FOR POSTS. GALVANIZING SHALL BE DONE AFTER ALL FABRICATION IS COMPLETED.



ILLINOIS DEPARTMENT OF
TRANSPORTATION

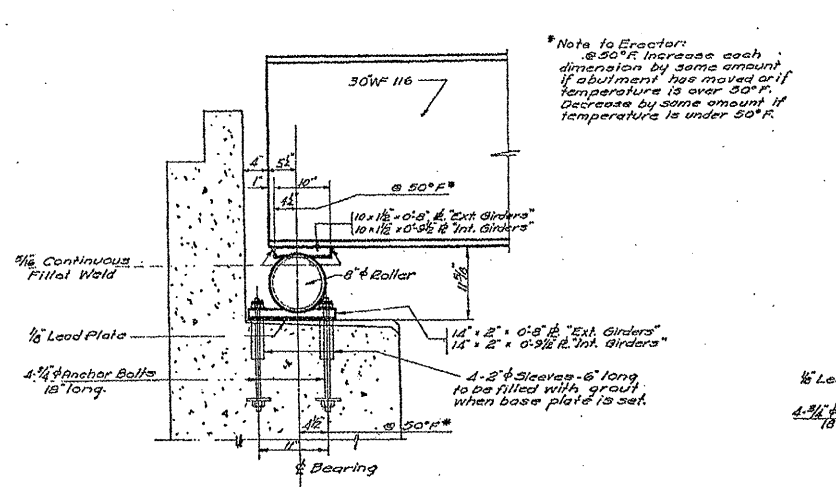
EXISTING BRIDGE PLAN

LOCATION 6: SN 016-0831
PRATT AVE. OVER I-94

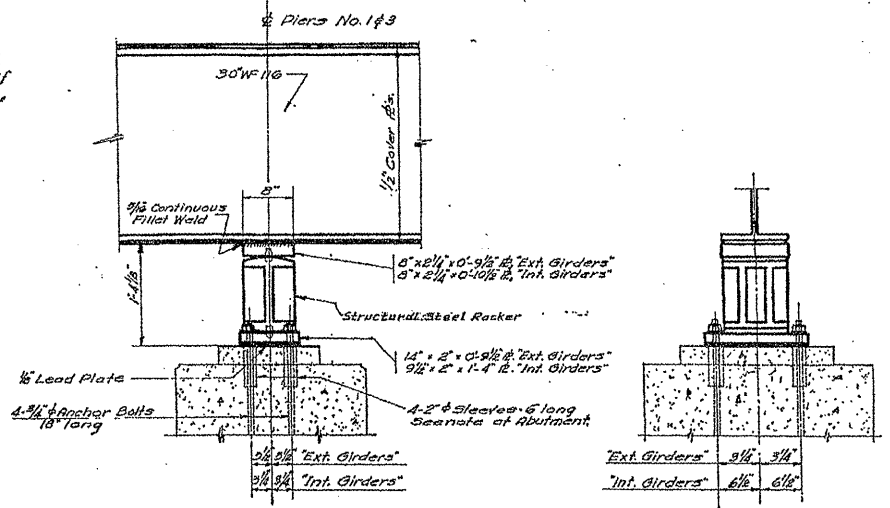
SH. 6 of 7

ROUTE VARIOUS	SECTION 2010-023 BP	COUNTY VARIOUS	TOTAL SHEETS 93	SHEET NUMBER 36
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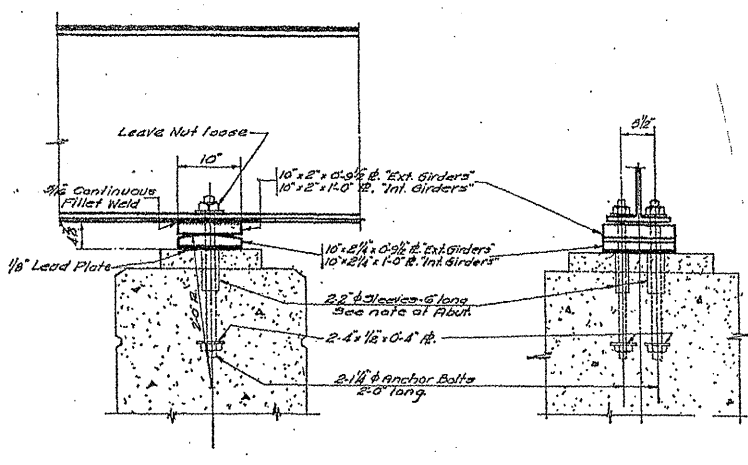
CONTRACT NO. 60K48



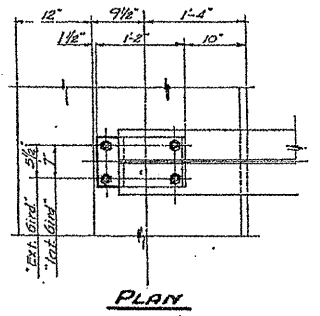
SECTION THRU ABUTMENT
Scale 1"=1'-0"



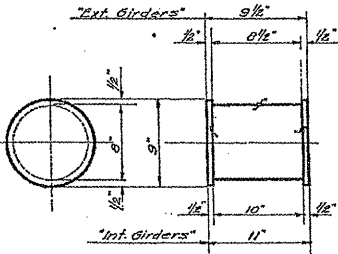
SECTION THRU PIERS No. 1&3
Scale 1"=1'-0"



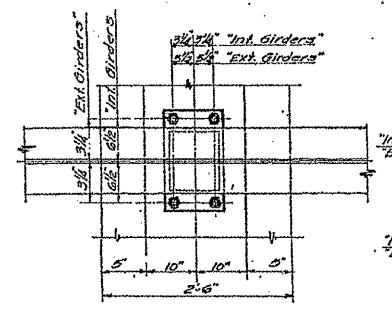
SECTION THRU PIER No. 2
Scale 1"=1'-0"



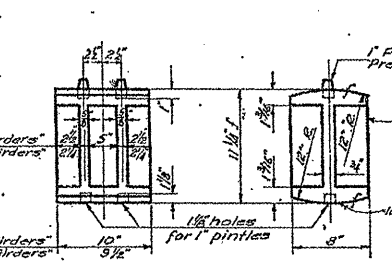
PLAN



DETAIL OF ROLLERS
Scale: 1/2"=1'-0"

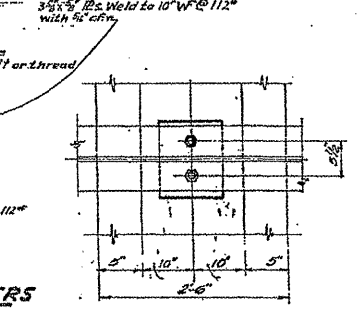


PLAN

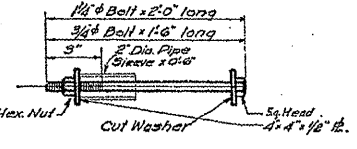


DETAIL OF STRUCTURAL STEEL ROCKERS AT PIERS No. 1&3
Scale: 1/2"=1'-0"

20-Req'd. Int. Girders - Wt. 246 lbs.
4-Req'd. Ext. Girders - Wt. 463 lbs.



PLAN



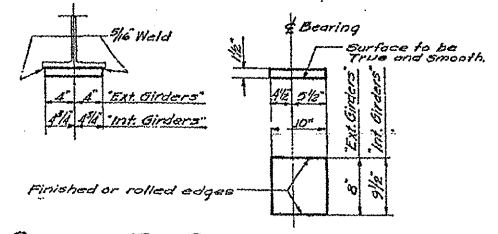
DETAIL OF ANCHOR BOLTS

1 1/4" - 21 Req'd. Wt. 226 lbs.
3/4" - 195 - 478
5" - 216 - 490
Cut Washers - 28
5" Pipe Sleeves - 394

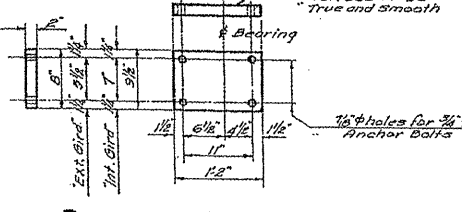
NOTES:
Rollers shall be turned down from a solid bar for all plates in contact with the rollers. The edges adjacent to the rollers shall be rolled edges.
Estimated weights of rollers, steel plates, lead plates and anchor bolts are included in the weight of structural steel.

All rollers, rockers, bearing B's, lead B's and anchor bolts shall be furnished, painted & set in accordance with Art. 54.3 (d) of the Std. Specs.

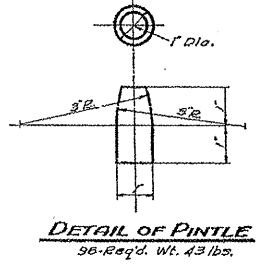
Total Weight Structural Steel on this sheet 17,250 lbs.



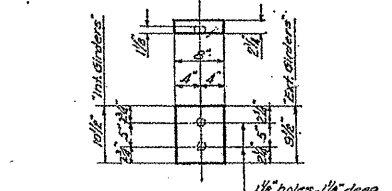
DETAIL OF TOP PLATE AT ABUTMENTS
1-Req'd. Ext. Girders - Wt. 134 lbs.
20-Req'd. Int. Girders - Wt. 800 lbs.



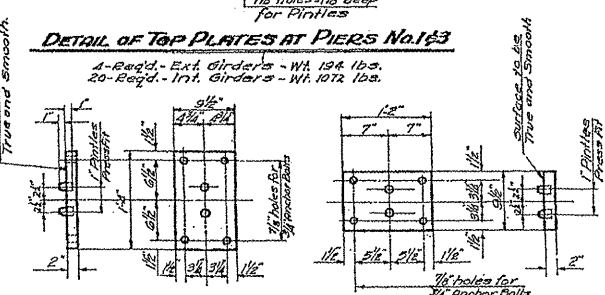
DETAIL OF BOTTOM PLATE AT ABUTMENTS
4-Req'd. Ext. Girders - Wt. 277 lbs.
20-Req'd. Int. Girders - Wt. 1844 lbs.
Includes Lead Plates



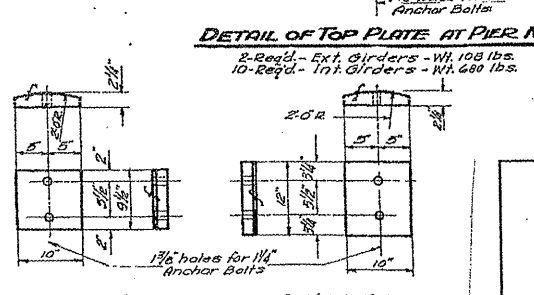
DETAIL OF PINTLE
36-Req'd. Wt. 43 lbs.



DETAIL OF TOP PLATES AT PIERS No. 1&3
4-Req'd. Ext. Girders - Wt. 194 lbs.
20-Req'd. Int. Girders - Wt. 1072 lbs.



DETAIL OF BOTTOM PLATES AT PIERS No. 1&3
20-Req'd. Int. Girders - Wt. 1895 lbs.
4-Req'd. Ext. Girders - Wt. 329 lbs.
Includes Lead Plates



DETAIL OF TOP PLATE AT PIER No. 2
2-Req'd. Ext. Girders - Wt. 108 lbs.
10-Req'd. Int. Girders - Wt. 600 lbs.

DETAIL OF BOTTOM PLATE AT PIER No. 2
2-Req'd. Ext. Girders - Wt. 130 lbs.
10-Req'd. Int. Girders - Wt. 936 lbs.
Includes Lead Plates

ILLINOIS DEPARTMENT OF TRANSPORTATION

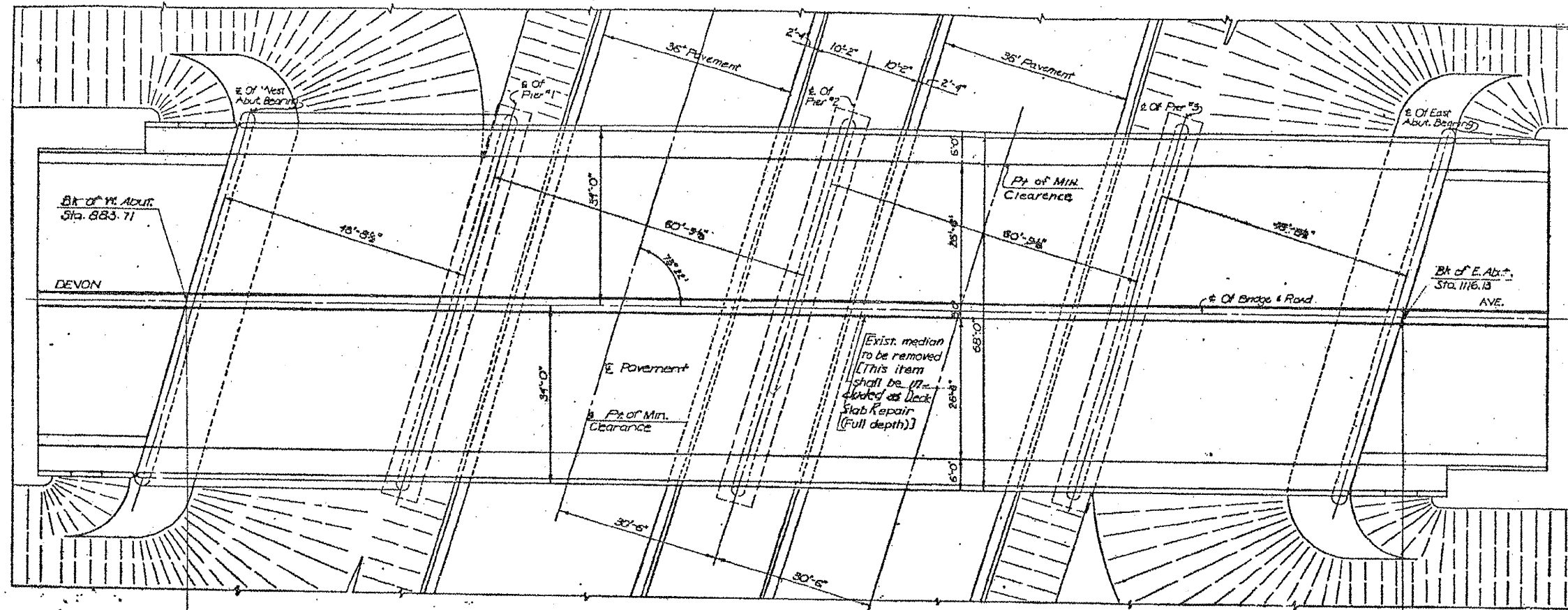
EXISTING BRIDGE PLAN

LOCATION 6: SN 016-0831
PRATT AVE. OVER I-94

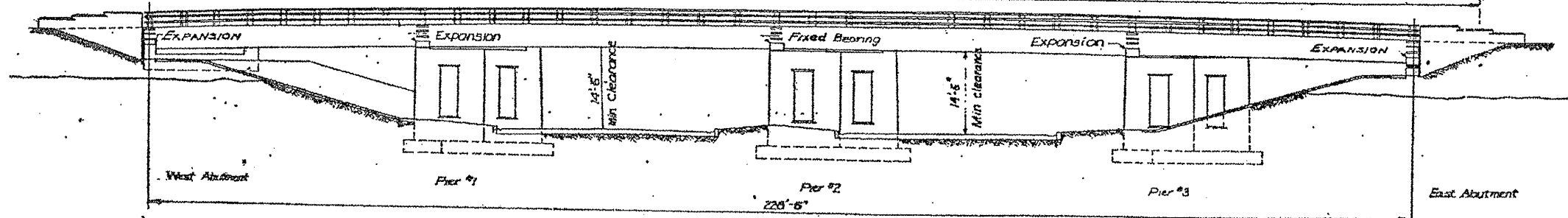
SH. 7 of 7

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2010-023 BP	VARIOUS	93	37

CONTRACT NO. 60K48



PLAN OF EXISTING BRIDGE DECK
232.41 Bk. to Bk. Abutms



ELEVATION

ILLINOIS DEPARTMENT OF
TRANSPORTATION

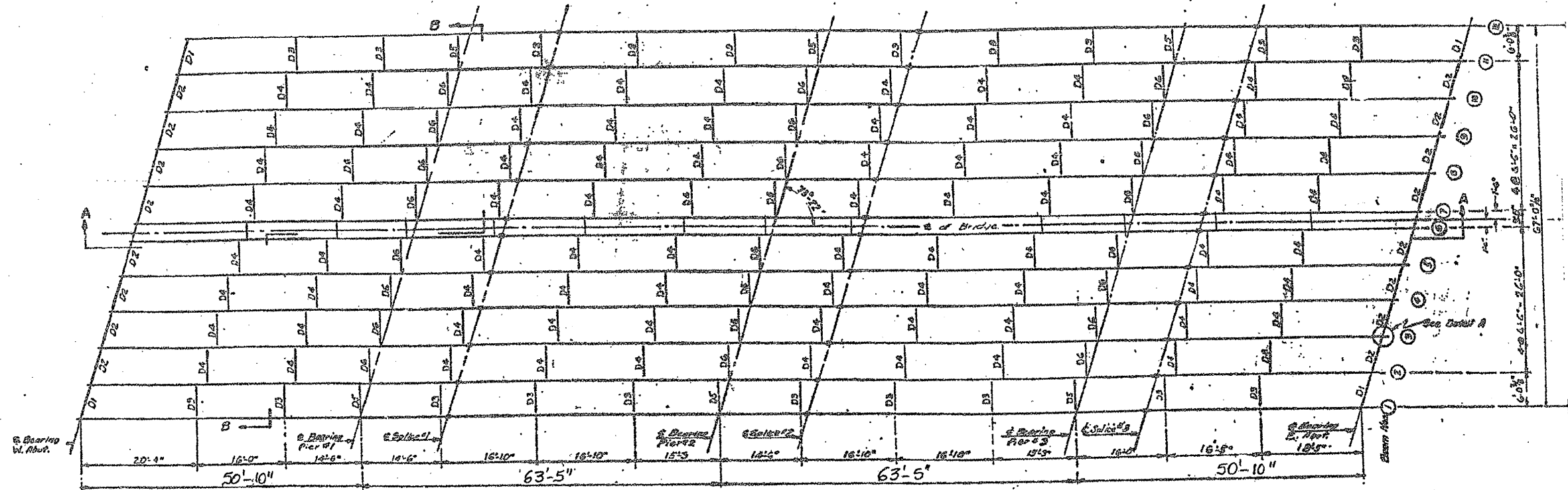
EXISTING BRIDGE PLAN

LOCATION 7: SN 016-0834
DEVON AVE. OVER I-94

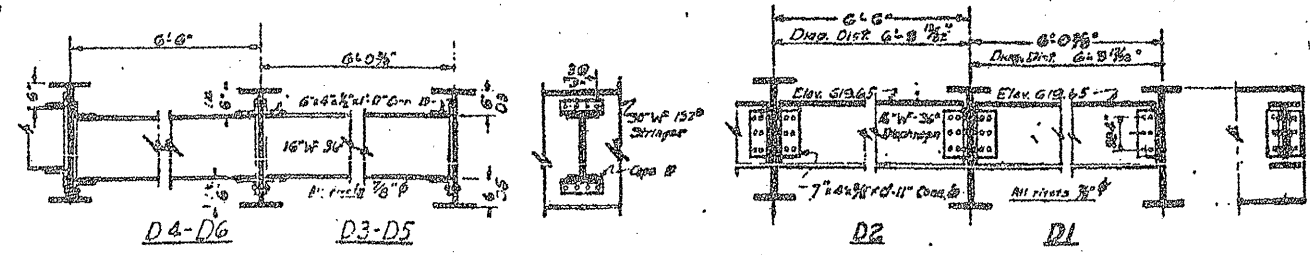
SH. 1 of 6

ROUTE VARIOUS	SECTION 2010-023 BP	COUNTY VARIOUS	TOTAL SHEETS 93	SHEET NUMBER 38
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CONTRACT NO. 60K48



STEEL LAYOUT PLAN



DIAPHRAGM DETAILS
3/4" x 1/2" x 1/2"

ILLINOIS DEPARTMENT OF
TRANSPORTATION

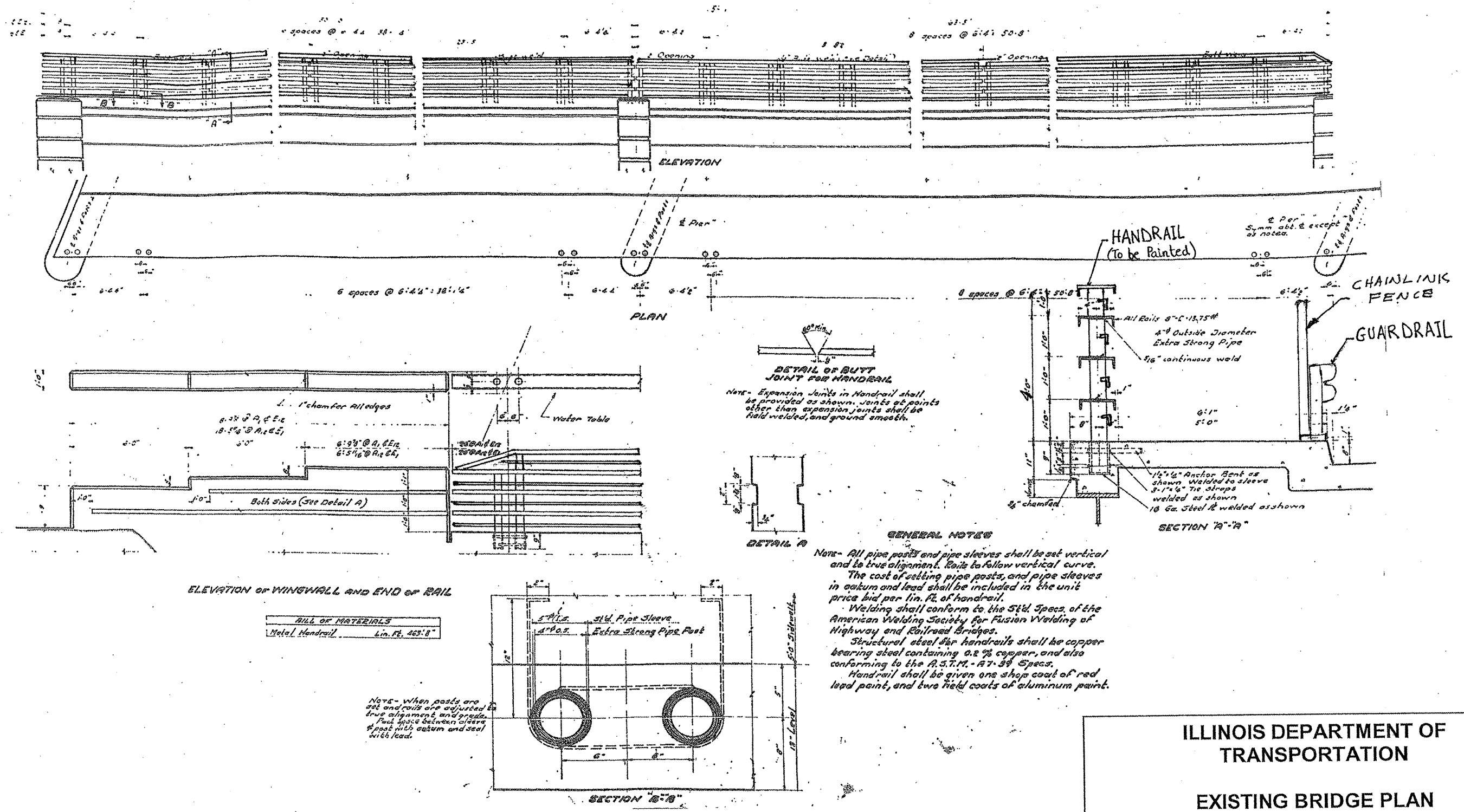
EXISTING BRIDGE PLAN

LOCATION 7: SN 016-0834
DEVON AVE. OVER I-94

SH. 2 of 6

ROUTE VARIOUS	SECTION 2010-023 BP	COUNTY VARIOUS	TOTAL SHEETS 93	SHEET NUMBER 39
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CONTRACT NO. 60K48



ILLINOIS DEPARTMENT OF
TRANSPORTATION

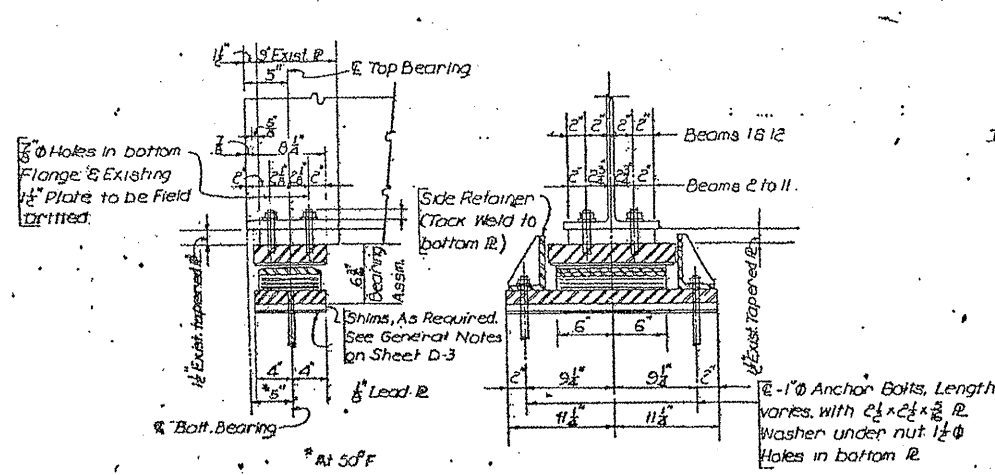
EXISTING BRIDGE PLAN

LOCATION 7: SN 016-0834
DEVON AVE. OVER I-94

SH. 3 of 6

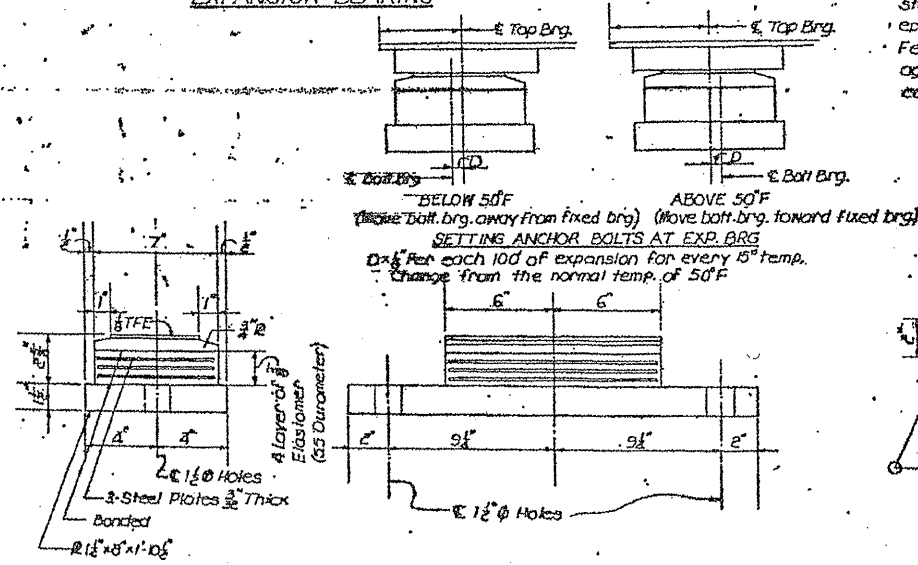
ROUTE VARIOUS	SECTION 2010-023 BP	COUNTY VARIOUS	TOTAL SHEETS 93	SHEET NUMBER 40
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CONTRACT NO. 60K48

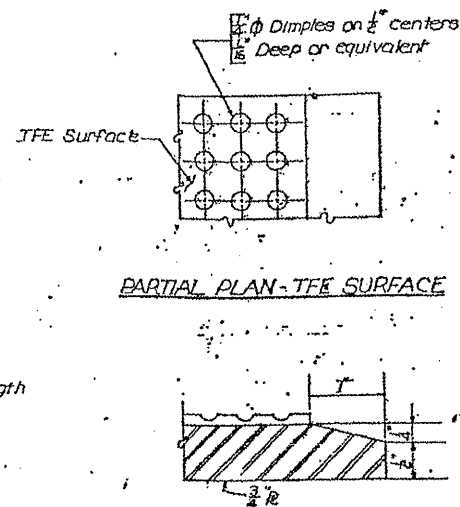


NOTE:-
After top bearing assemblies have been erected holes of lower expansion bearing shall be drilled and anchor bolts grouted in place

TYPE II TFE ELASTOMERIC EXPANSION BEARING

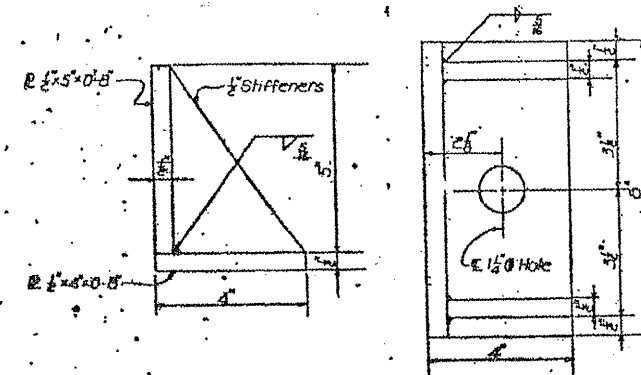


BOTTOM BEARING ASSEMBLY
(24 REQUIRED)

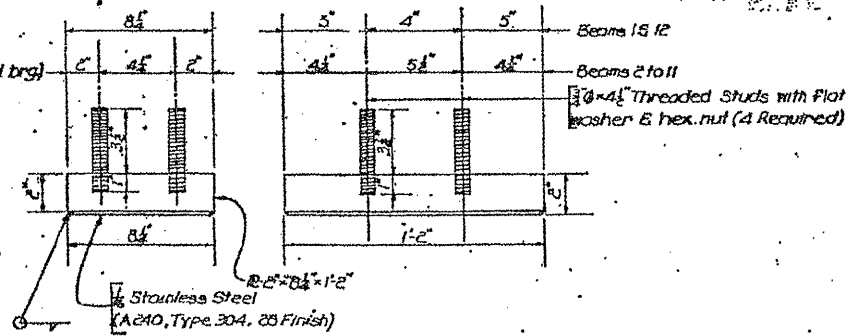


SECTION THRU TFE

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 requirement of the Federal Specification MMM-A-134, Type I. The bond agent shall be applied on the full area of the contact surfaces.



SIDE RETAINER



TOP BEARING ASSEMBLY
14 Required for Beams 1 & 2
20 Required for Beams 2 to 11

NOTE:-
For new anchor bolt details see Sheets D-14 and D-15

ILLINOIS DEPARTMENT OF
TRANSPORTATION

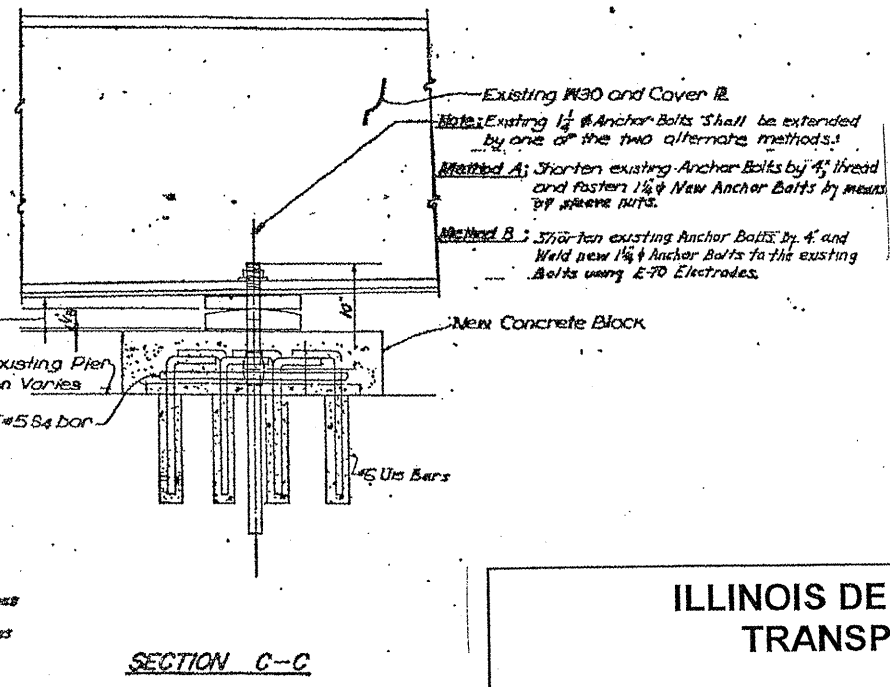
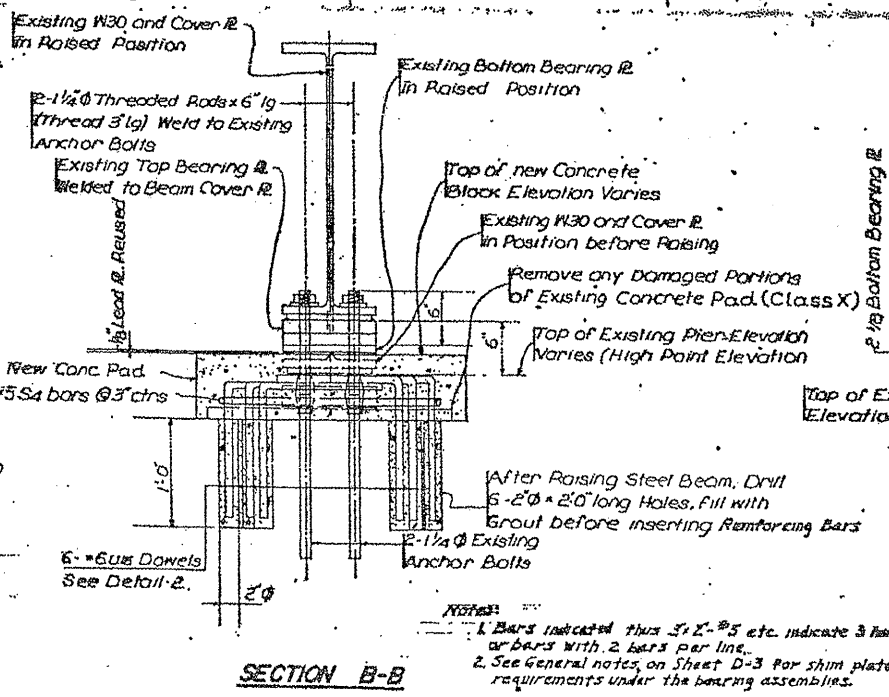
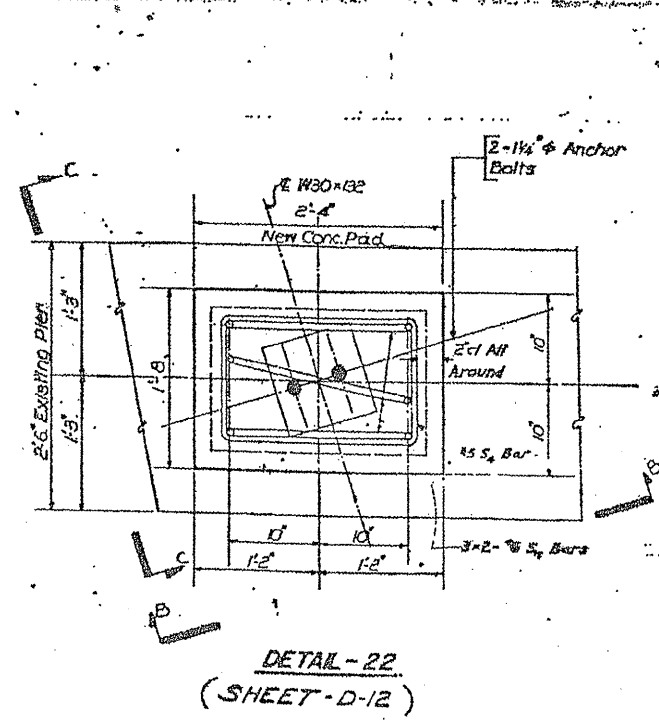
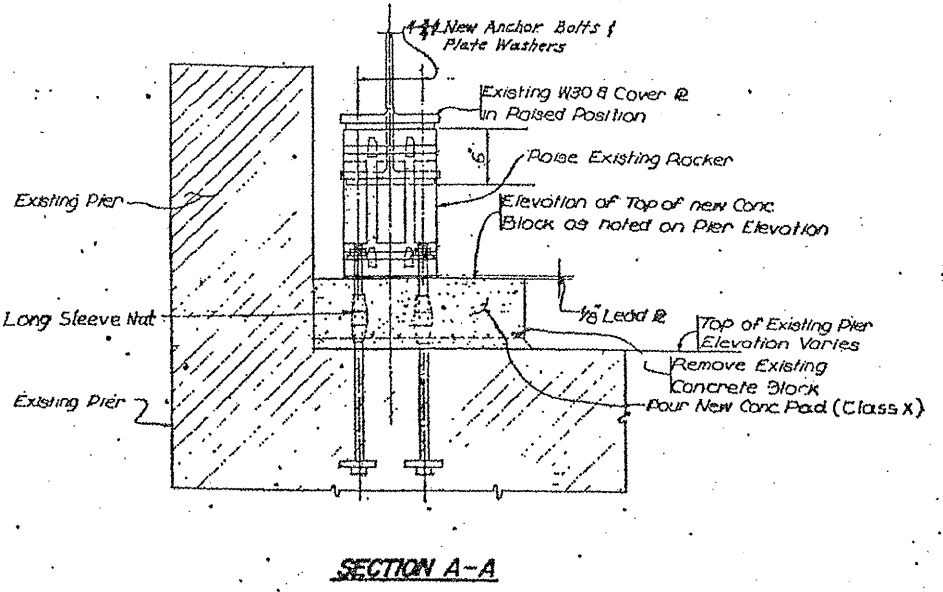
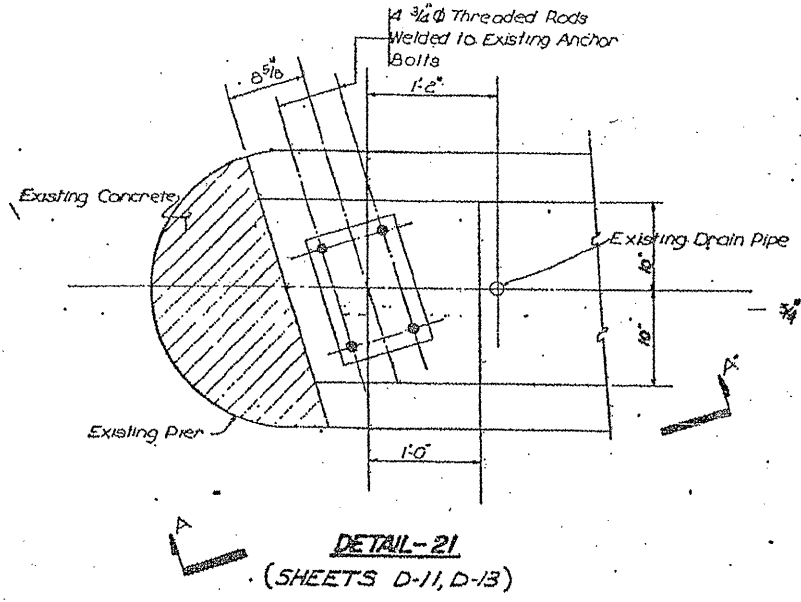
EXISTING BRIDGE PLAN

LOCATION 7: SN 016-0834
DEVON AVE. OVER I-94

SH. 4 of 6

ROUTE VARIOUS	SECTION 2010-023 BP	COUNTY VARIOUS	TOTAL SHEETS 93	SHEET NUMBER 41
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CONTRACT NO. 60K48



Notes:
1. Bars indicated thus 3, 2, 5 etc. indicate 3 bars or bars with 2 bars per line.
2. See General notes on Sheet D-3 for shim plate requirements under the bearing assemblies.

ILLINOIS DEPARTMENT OF
TRANSPORTATION

EXISTING BRIDGE PLAN

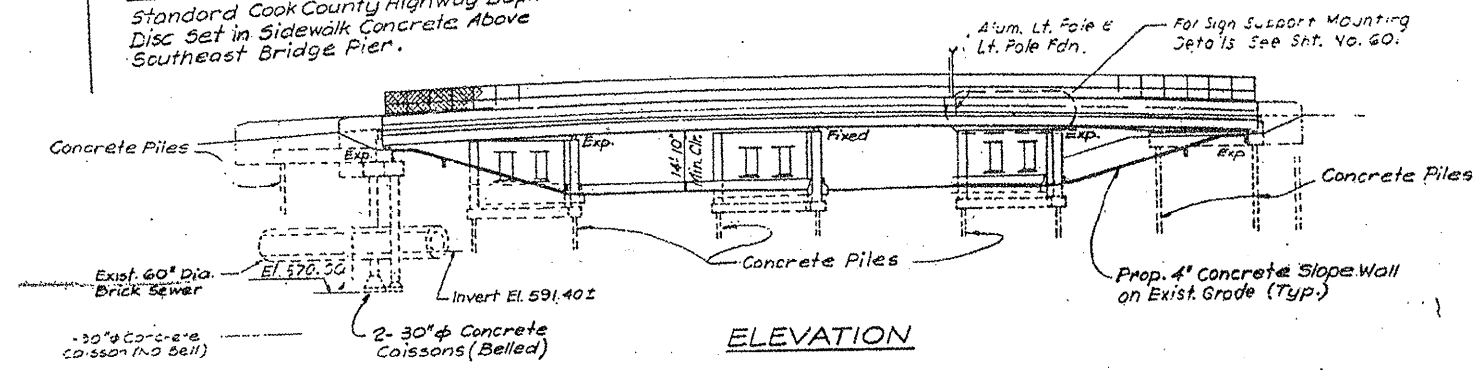
LOCATION 7: SN 016-0834
DEVON AVE. OVER I-94

SH. 5 of 6

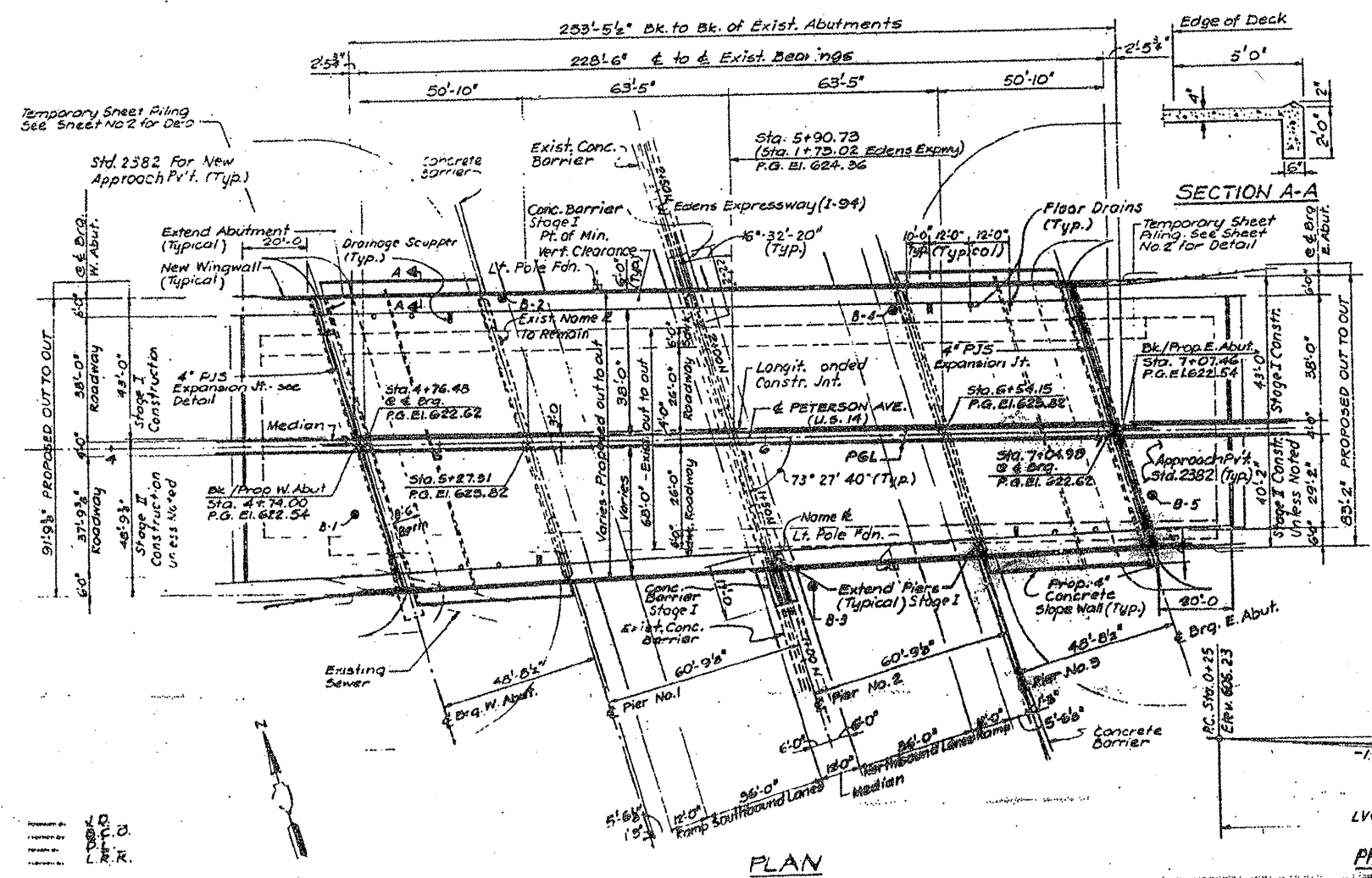
ROUTE VARIOUS	SECTION 2010-023 BP	COUNTY VARIOUS	TOTAL SHEETS 93	SHEET NUMBER 43
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CONTRACT NO. 60K48

BENCH MARK: ELEV. 622.31
Standard Cook County Highway Dept.
Disc Set in Sidewalk Concrete Above
Southeast Bridge Pier.



ELEVATION

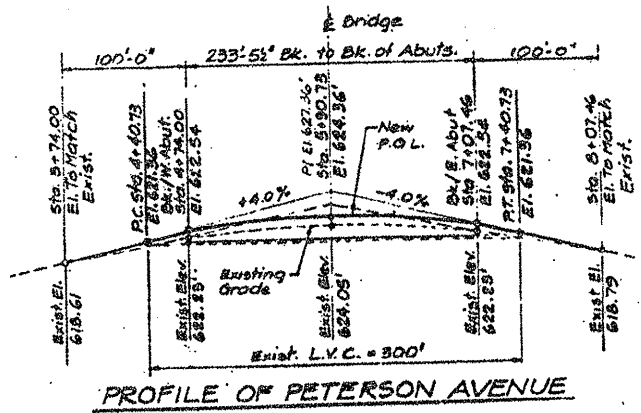


PLAN

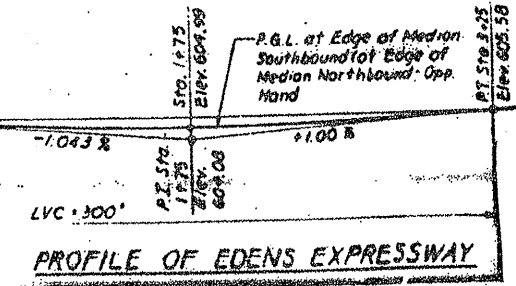
SECTION A-A

STA 5+90.73
REBUILT 198
STATE OF ILLINOIS
FAU RT. 99 SEC. 0202.2 BY(85)
LOADING HS-20
STR NO. 016-0364

NAME PLATE
(STD. 2113)



PROFILE OF PETERSON AVENUE



PROFILE OF EDENS EXPRESSWAY

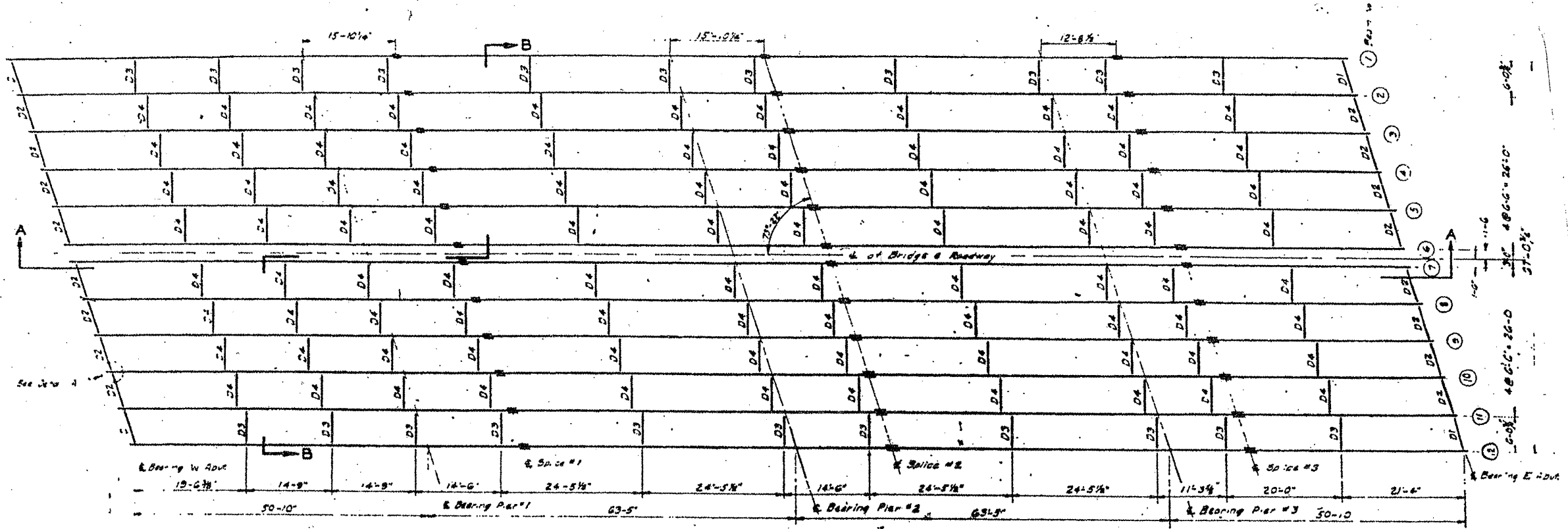
ILLINOIS DEPARTMENT OF
TRANSPORTATION
EXISTING BRIDGE PLAN

LOCATION 8: SN 016-0364
US 14 (PETERSON AVE.) OVER I-94

SH. 1 of 5

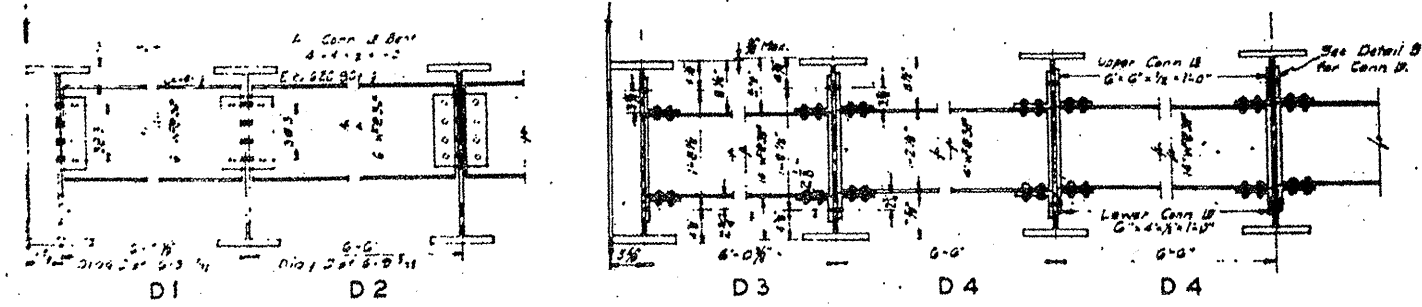
ROUTE VARIOUS	SECTION 2010-023 BP	COUNTY VARIOUS	TOTAL SHEETS 93	SHEET NUMBER 44
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CONTRACT NO. 60K48



STEEL LAYOUT PLAN

ALL BEAMS 30 WF132
ALL DIAPHRAGMS 16 WF 36



DIAPHRAGM DETAILS
Scale 3/16" = 1'-0"

All Rivets 3/8"

ILLINOIS DEPARTMENT OF
TRANSPORTATION

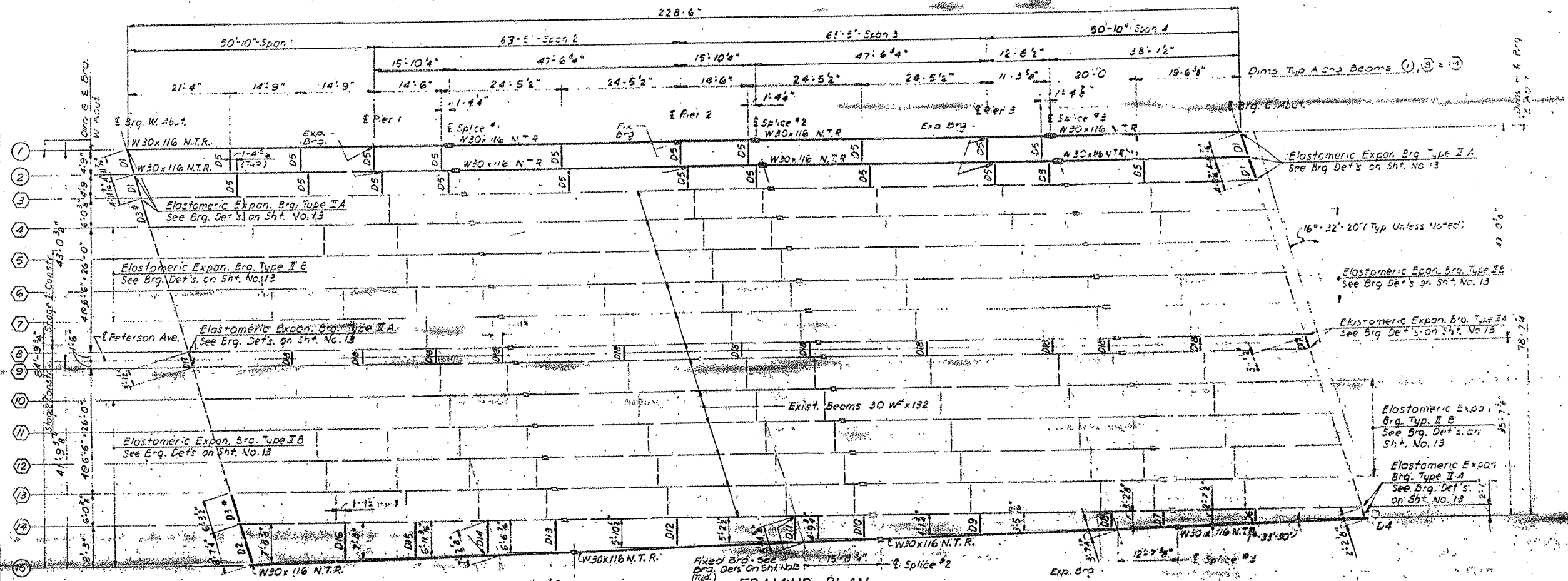
EXISTING BRIDGE PLAN

LOCATION 8: SN 016-0364
US 14 (PETERSON AVE.) OVER I-94

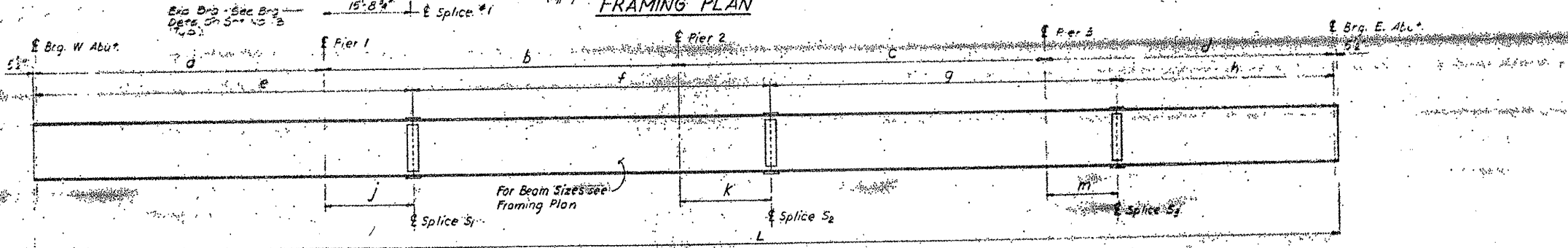
SH. 2 of 5

ROUTE VARIOUS	SECTION 2010-023 BP	COUNTY VARIOUS	TOTAL SHEETS 93	SHEET NUMBER 45
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CONTRACT NO. 60K48



Beam Length	1	2	15
a	50'-10"	50'-10"	50'-5 3/4"
b	63'-5"	63'-5"	62'-11 3/4"
c	63'-5"	63'-5"	62'-11 3/4"
d	50'-10"	50'-10"	50'-5 3/4"
e	66'-8 1/4"	66'-8 1/4"	66'-2 3/4"
f	63'-5"	63'-5"	62'-11 3/4"
g	60'-3 1/4"	60'-3 1/4"	59'-9 3/4"
h	38'-1 1/2"	38'-1 1/2"	37'-10"
i	15'-10 1/4"	15'-10 1/4"	15'-8 3/4"
k	15'-10 1/4"	15'-10 1/4"	15'-8 3/4"
m	12'-8 1/4"	12'-8 1/4"	12'-7 1/4"
L	229'-5"	229'-5"	227'-8"



- NOTES:**
- N.T.R. designates Notch Toughness Requirement. see General Notes.
 - For Framing Details see Sheet No. 12.
 - * Replace Existing Diaphragm Members.
 - Existing Beams indicated thus (3).
 - New Beams indicated thus (5).
 - Structural Steel in this sheet to be furnished under another contract.

ILLINOIS DEPARTMENT OF TRANSPORTATION

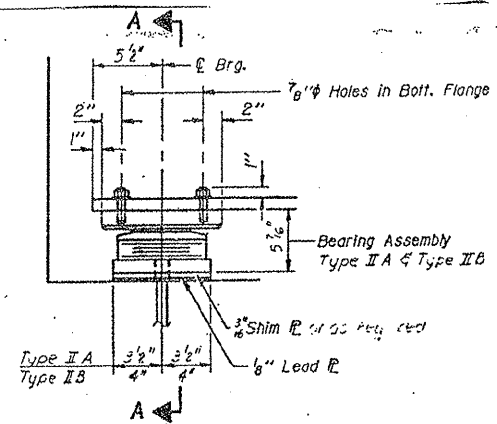
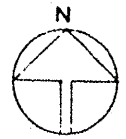
EXISTING BRIDGE PLAN

LOCATION 8: SN 016-0364
US 14 (PETERSON AVE.) OVER I-94

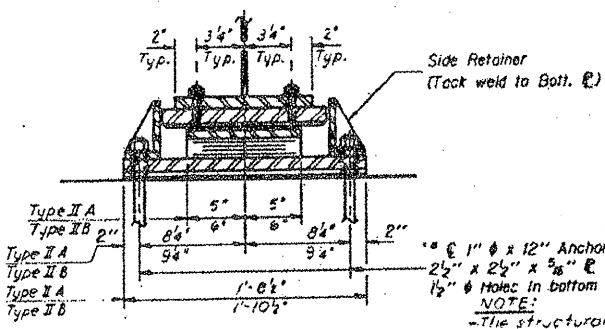
SH. 3 of 5

ROUTE VARIOUS	SECTION 2010-023 BP	COUNTY VARIOUS	TOTAL SHEETS 93	SHEET NUMBER 46
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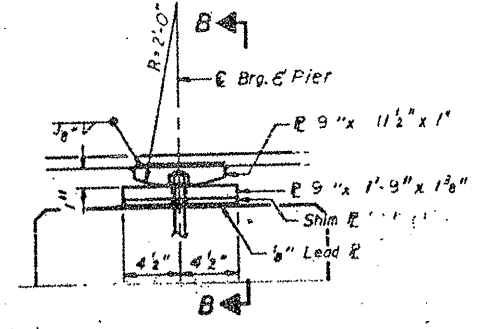
CONTRACT NO. 60K48



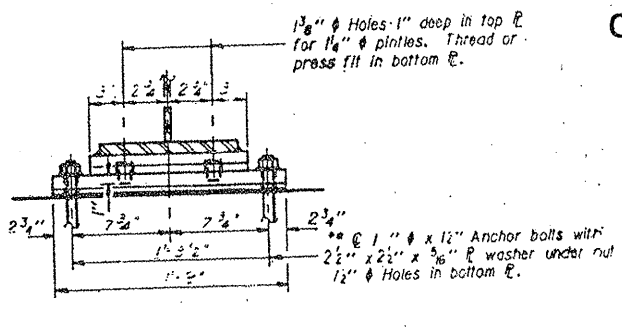
ELEVATION AT ABUT.



SECTION A-A

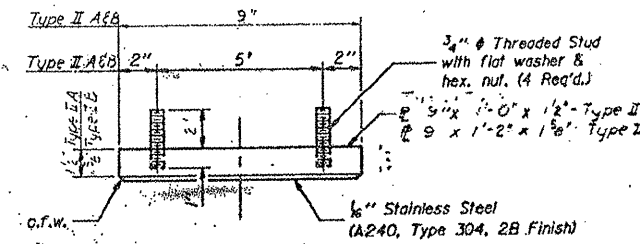


ELEVATION AT PIER ?

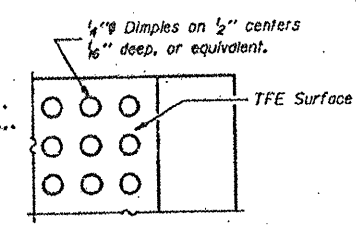


SECTION B-B

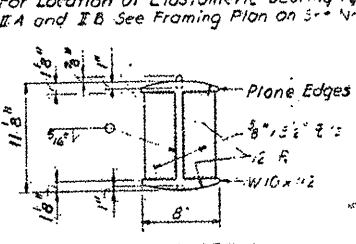
TYPE IIA & TYPE IIB TFE ELASTOMERIC EXP. BRGS.



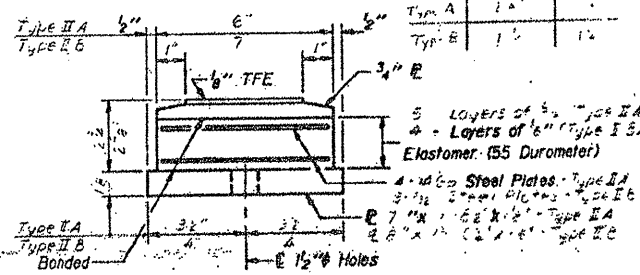
TOP BEARING ASSEMBLY



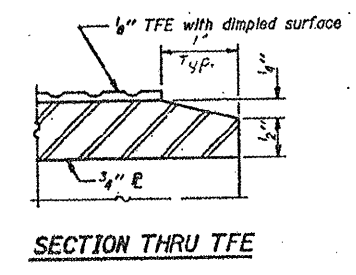
PLAN-TFE SURFACE



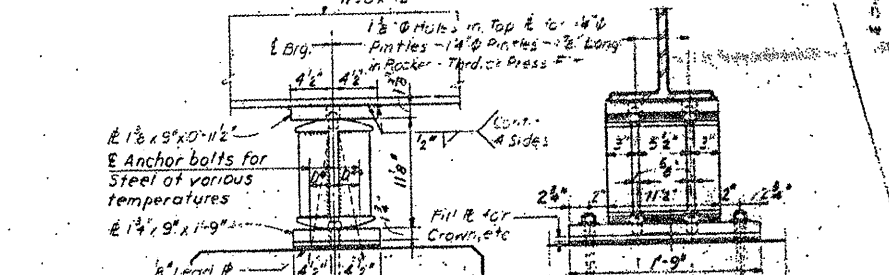
ROCKER DETAIL



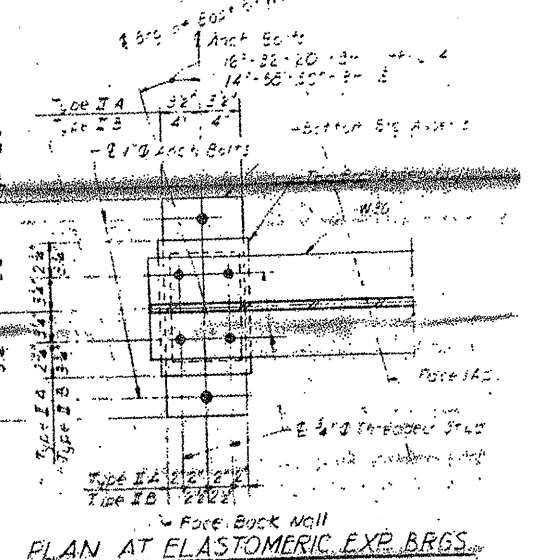
BOTTOM BEARING ASSEMBLY



SECTION THRU TFE



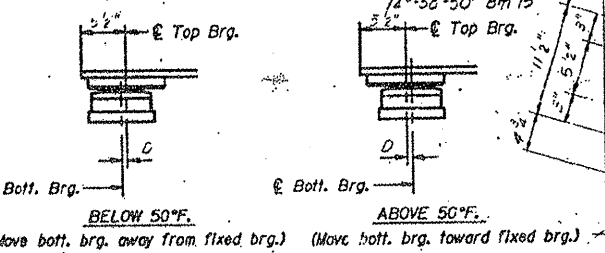
ELEVATION



PLAN AT ELASTOMERIC EXP. BRGS. AT EAST AND WEST ABUTMENTS

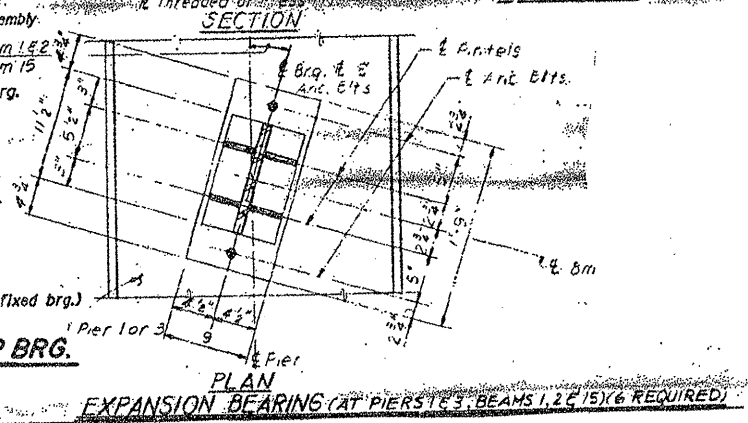
Note: The 1/2" TFE sheet shall be bonded directly to the top steel plate with a two-component, medium viscosity epoxy resin, conforming to the requirements of the Federal Specification MMH-A-134, Type Y. The bond agent shall be applied on the full area of the contact surfaces.

Bonding of 1/2" TFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.



SETTING ANCHOR BOLTS AT ELASTOMERIC EXP. BRG.

D=1/4" per each 100' of expansion for every 15° temp. change from the normal temp. of 50°F.



PLAN EXPANSION BEARINGS (AT PIERS 1, 2, 3, BEAMS 1, 2, 5) (6 REQUIRED)

DESIGNED	LM
CHECKED	JG
DRAWN	JBMJ
CHECKED	CCO

V-2-E2 12-1-83

ILLINOIS DEPARTMENT OF TRANSPORTATION

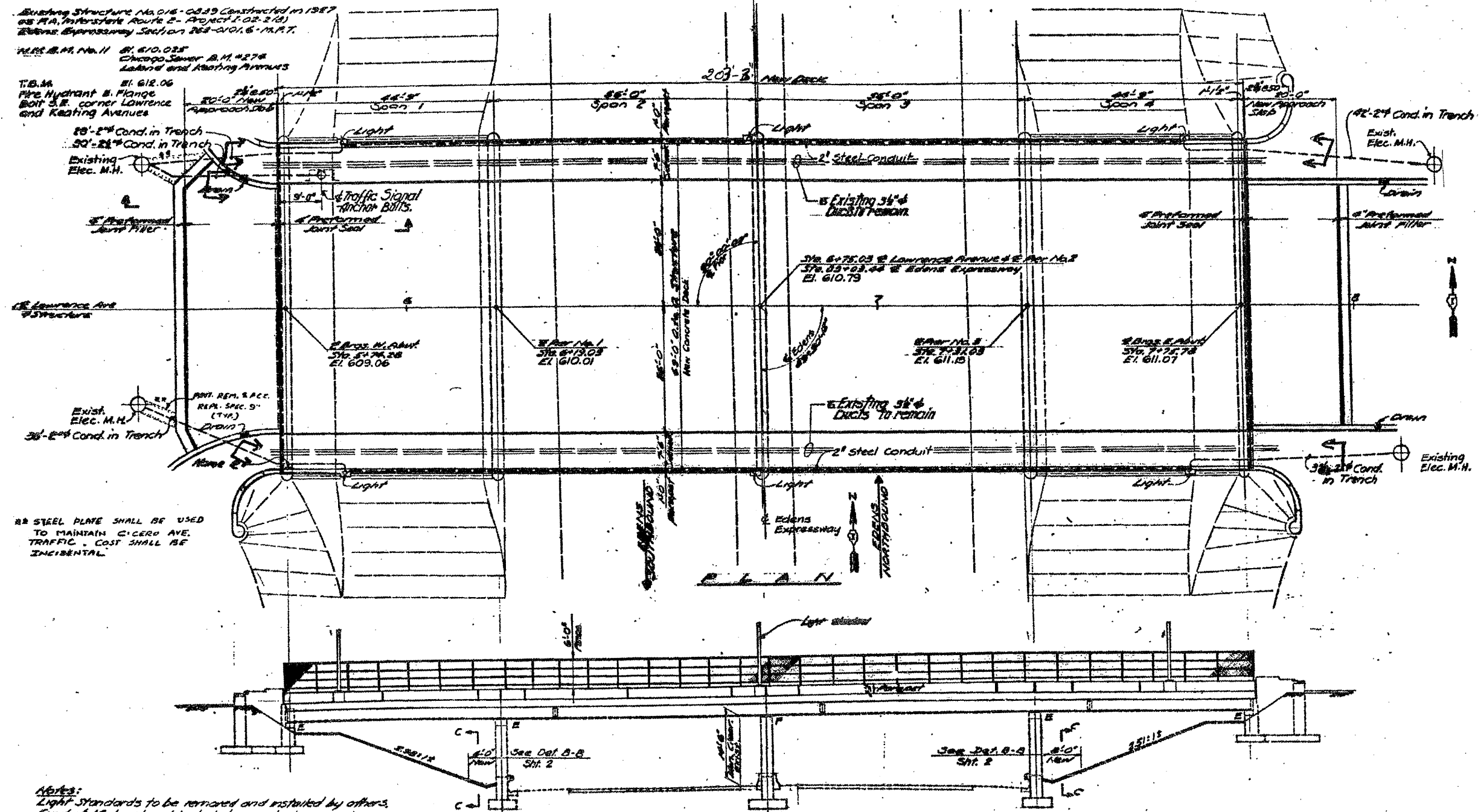
EXISTING BRIDGE PLAN

LOCATION 8: SN 016-0364
US 14 (PETERSON AVE.) OVER I-94

SH. 4 of 5

ROUTE VARIOUS	SECTION 2010-023 BP	COUNTY VARIOUS	TOTAL SHEETS 93	SHEET NUMBER 48
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CONTRACT NO. 60K48



AS STEEL PLATE SHALL BE USED TO MAINTAIN C-CERO AVE. TRAFFIC. COST SHALL BE INCIDENTAL.

Notes:
Light Standards to be removed and installed by others.
Conduit Material and Installation including couplings and expansion couplings shall be inspected and approved by the Bureau of Electricity City of Chicago, before payment is made.
Exist. Electric cables will be removed by the Bureau of Electricity, existing conduits will be removed by the Contractor.

SOUTH ELEVATION

ILLINOIS DEPARTMENT OF
TRANSPORTATION

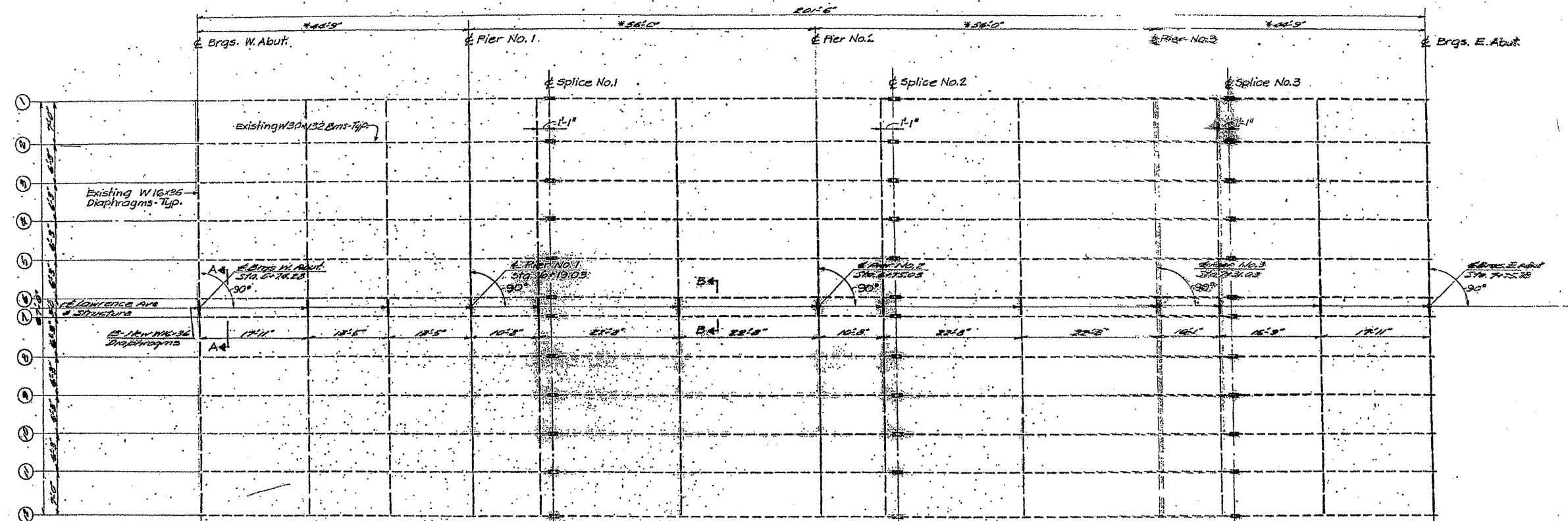
EXISTING BRIDGE PLAN

LOCATION 9: SN 016-0839
LAWRENCE AVE. OVER I-94

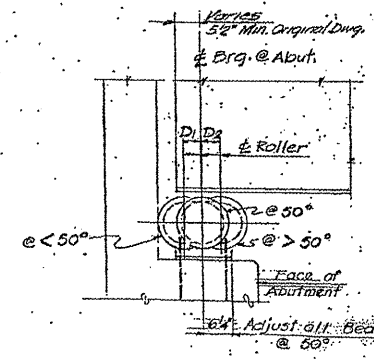
SH. 1 of 3

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2010-023 BP	VARIOUS	93	49

CONTRACT NO. 60K48

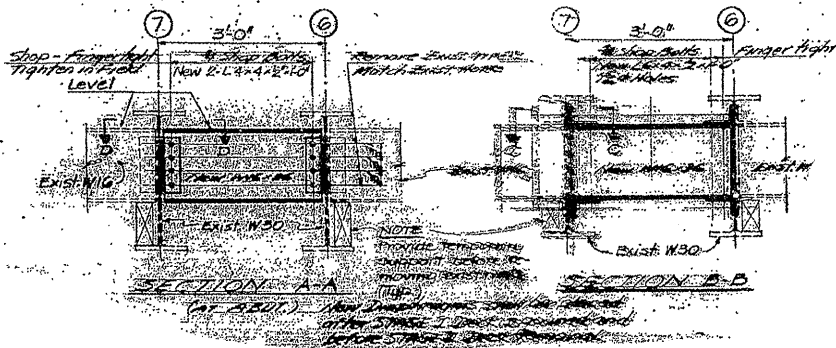
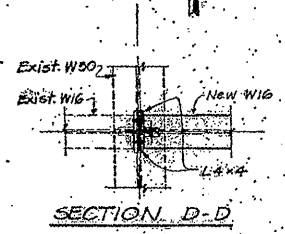


Dimensions from DWS from Original Construction
FRAMING PLAN



$D_1 = \frac{1}{8}"/100 \text{ Ft. of Expansion for every } 15^\circ \text{ below the normal temperature of } 50^\circ \text{F.}$
 $D_2 = \frac{1}{8}"/100 \text{ Ft. of Expansion for every } 15^\circ \text{ above the normal temperature of } 50^\circ \text{F.}$

NOTE:
All bolts shall be $\frac{3}{4}$ " dia. A325 with two hardened washers over each hole.



ALL BEAMS 30 WF 132
ALL DIAPHRAGMS 16 WF 36

ILLINOIS DEPARTMENT OF
TRANSPORTATION

EXISTING BRIDGE PLAN

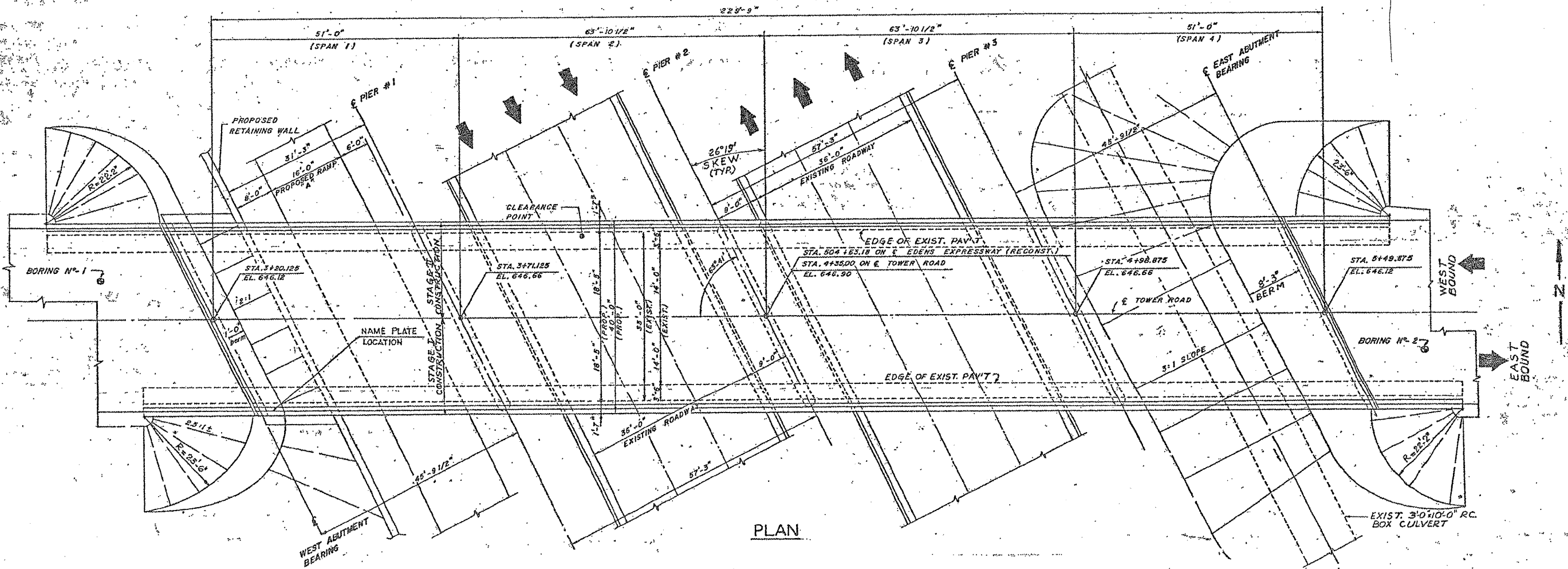
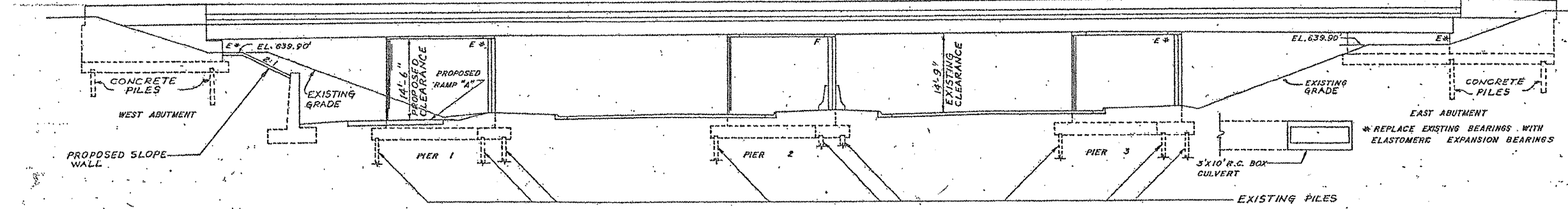
LOCATION 9: SN 016-0839
LAWRENCE AVE. OVER I-94

SH. 2 of 3

ROUTE VARIOUS	SECTION 2010-023 BP	COUNTY VARIOUS	TOTAL SHEETS 93	SHEET NUMBER 51
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B. M. STATION 503+00 DISK IN HEADWALL
 92' EAST OF EDGES U.S.G.S. EL. 627.24
 CENTER LINE BRASS

CONTRACT NO. 60K48



ILLINOIS DEPARTMENT OF
 TRANSPORTATION

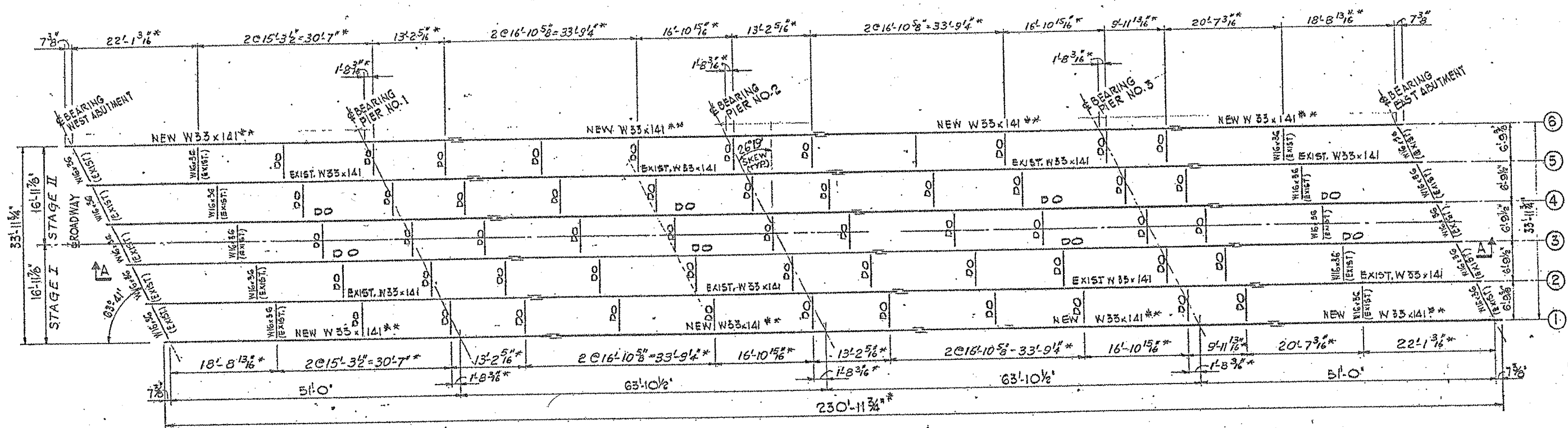
EXISTING BRIDGE PLAN

LOCATION 10: SN 016-0815
 TOWER RD. OVER I-94

SH. 1 of 3

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2010-023 BP	VARIOUS	93	52

CONTRACT NO. 60K48



STEEL FRAMING PLAN

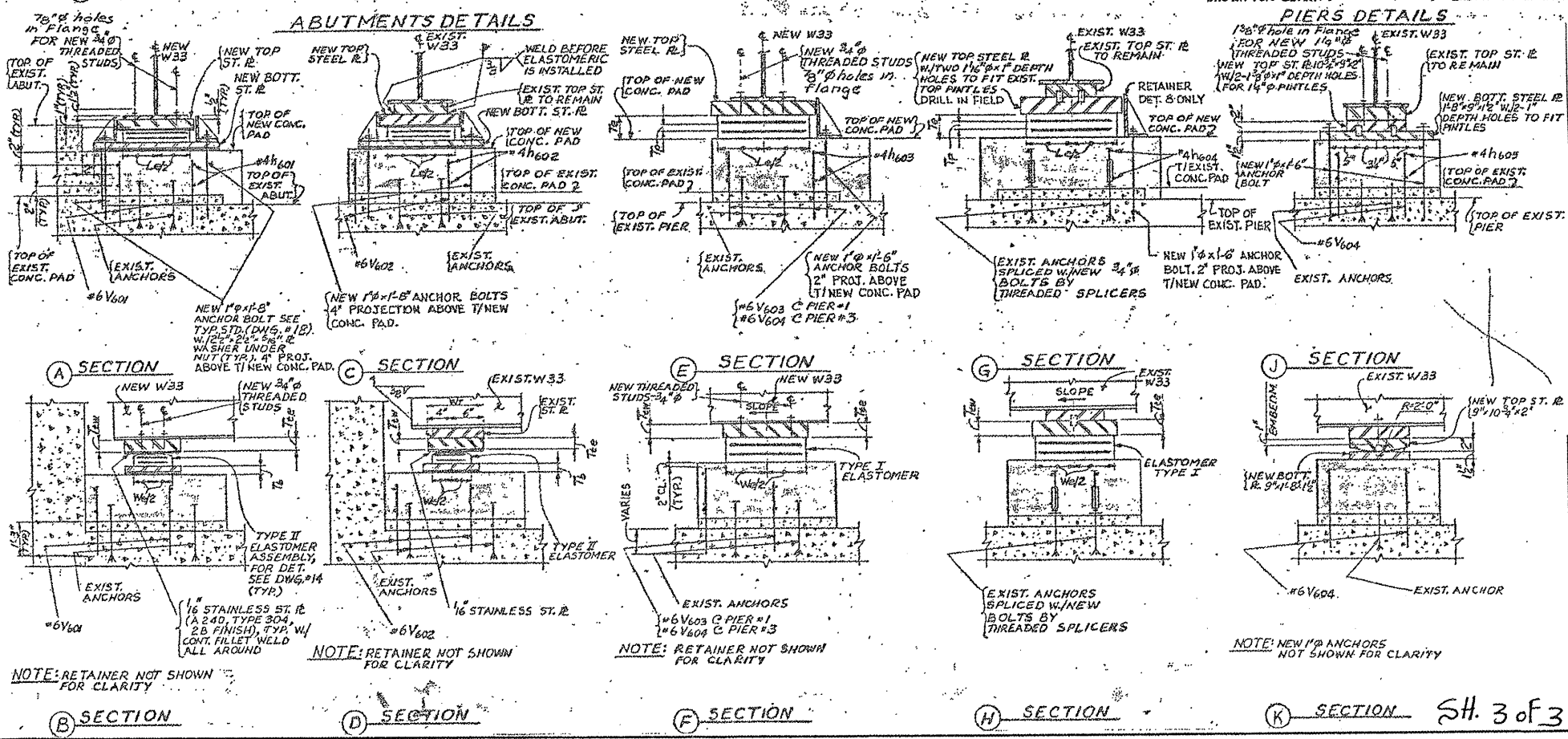
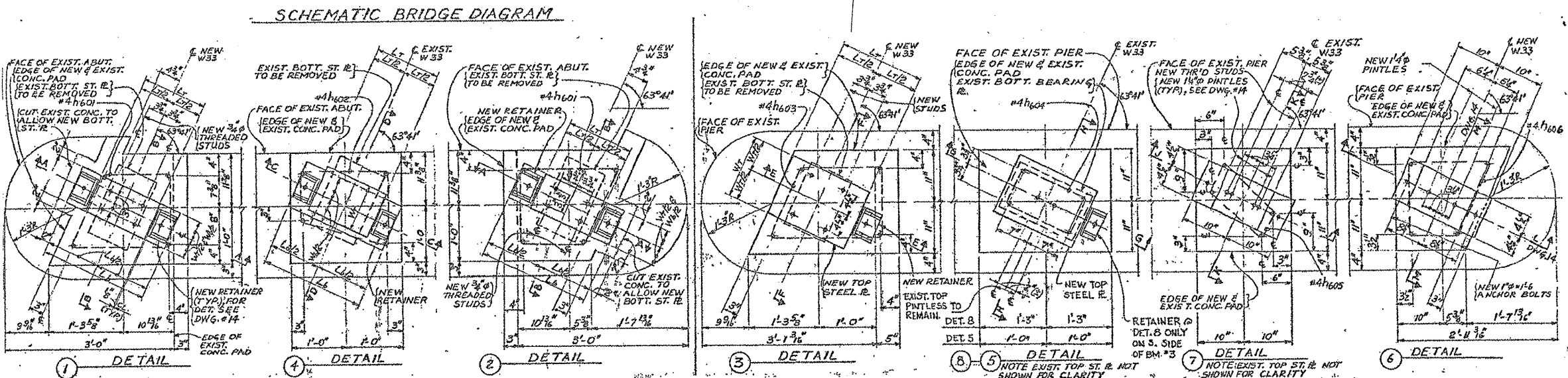
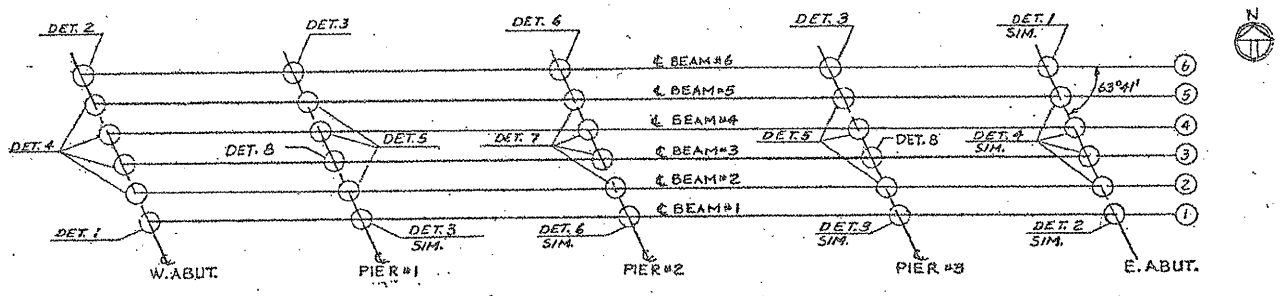
* DIMENSIONS FOR REFERENCE ONLY AND REQUIRE FIELD VERIFICATION
 ** WORK INCLUDES REPLACEMENT OF FASCIA BEAM

ILLINOIS DEPARTMENT OF
 TRANSPORTATION
 EXISTING BRIDGE PLAN
 LOCATION 10: SN 016-0815
 TOWER RD. OVER I-94

SH. 2 of 3

ROUTE VARIOUS	SECTION 2010-023 BP	COUNTY VARIOUS	TOTAL SHEETS 93	SHEET NUMBER 53
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CONTRACT NO. 60K48



ILLINOIS DEPARTMENT OF
TRANSPORTATION

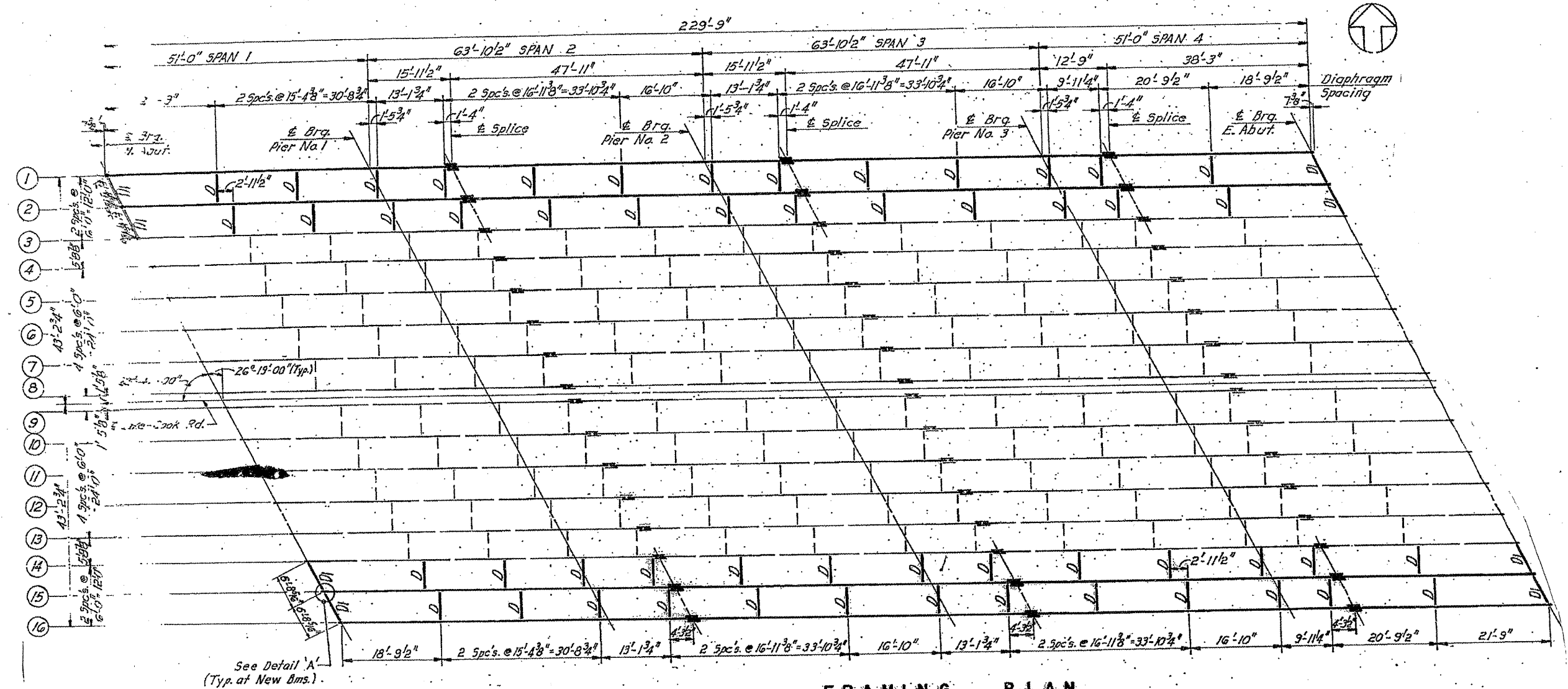
EXISTING BRIDGE PLAN

LOCATION 10: SN 016-0815
TOWER RD. OVER I-94

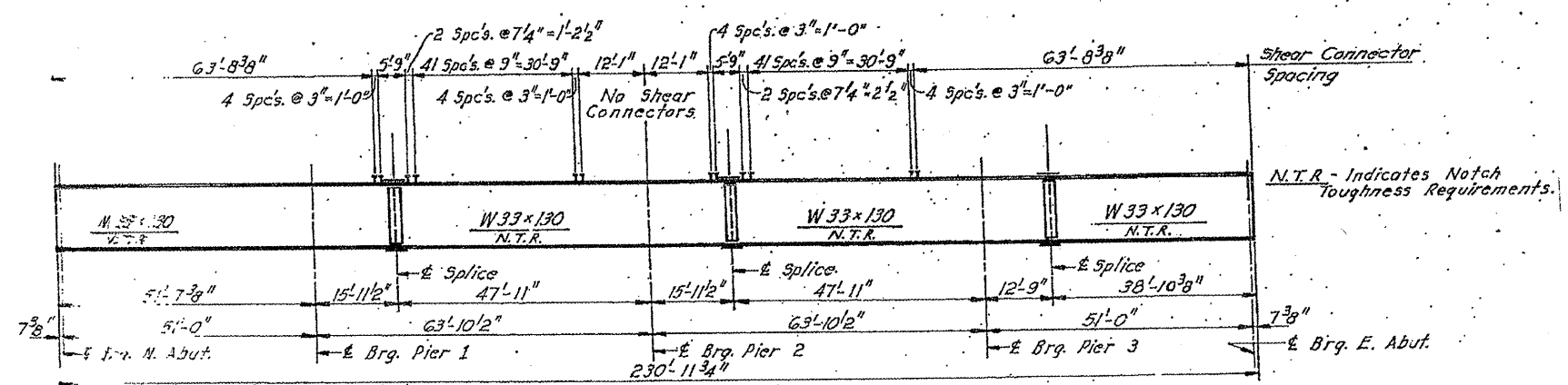
SH. 3 of 3

ROUTE VARIOUS	SECTION 2010-023 BP	COUNTY VARIOUS	TOTAL SHEETS 93	SHEET NUMBER 55
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CONTRACT NO. 60K48



FRAMING PLAN



BEAM ELEVATION

ILLINOIS DEPARTMENT OF
TRANSPORTATION

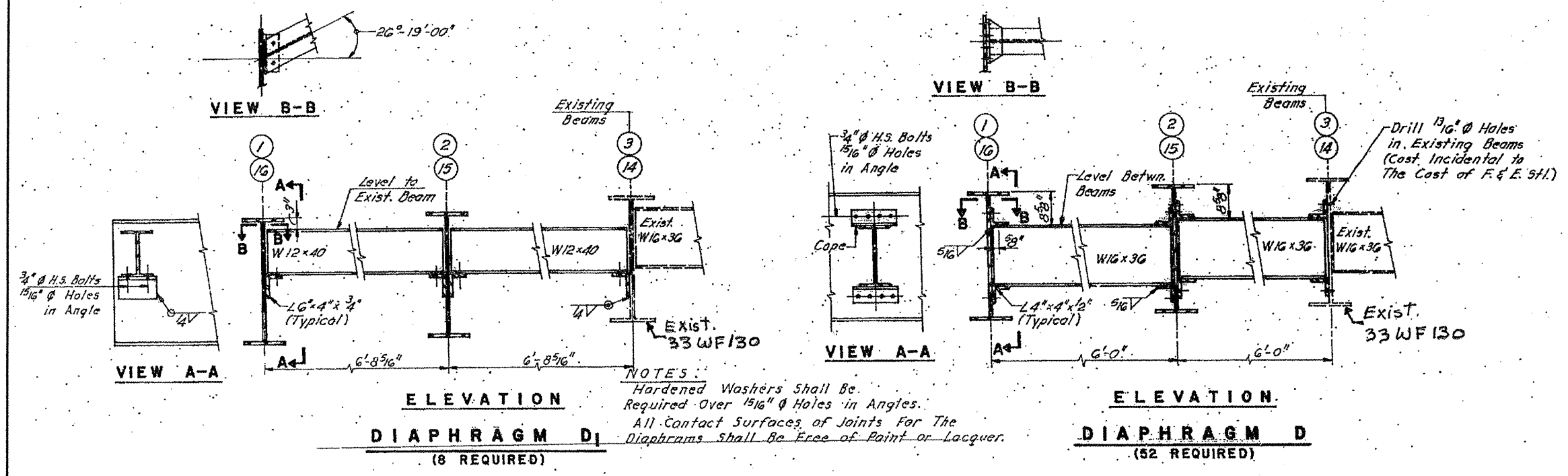
EXISTING BRIDGE PLAN

LOCATION 11 : SN 016-0811
LAKE COOK RD OVER US 41

SH. 2 of 4

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2010-023 BP	VARIOUS	93	56

CONTRACT NO. 60K48



ILLINOIS DEPARTMENT OF
 TRANSPORTATION

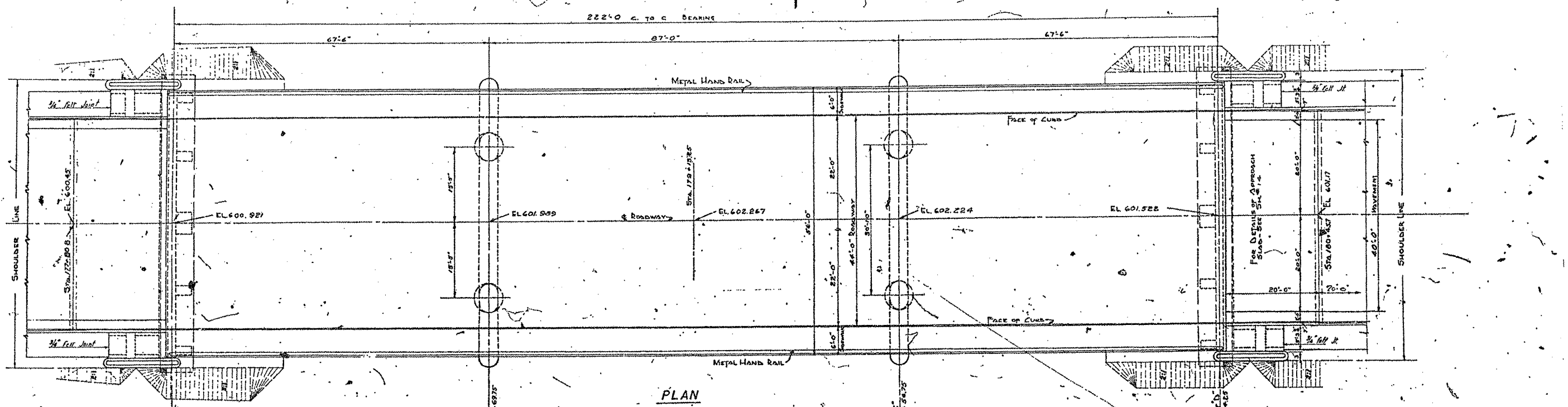
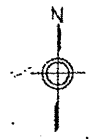
EXISTING BRIDGE PLAN

LOCATION 11: SN 016-0811
 LAKE COOK RD OVER US 41

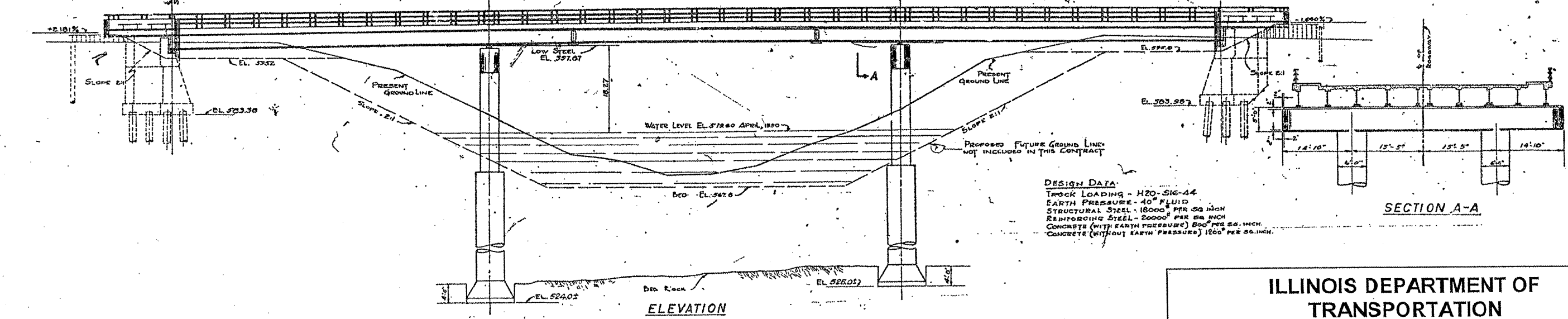
SH. 3 of 4

ROUTE VARIOUS	SECTION 2010-023 BP	COUNTY VARIOUS	TOTAL SHEETS 93	SHEET NUMBER 58
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CONTRACT NO. 60K48



PLAN



ELEVATION

DESIGN DATA
 TRUCK LOADING - H20-S16-44
 EARTH PRESSURE - 40° FLUID
 STRUCTURAL STEEL - 18000 PER SQ INCH
 REINFORCING STEEL - 20000 PER SQ INCH
 CONCRETE (WITH EARTH PRESSURE) 800° PER SQ INCH
 CONCRETE (WITHOUT EARTH PRESSURE) 1200° PER SQ INCH

SECTION A-A

ILLINOIS DEPARTMENT OF
 TRANSPORTATION

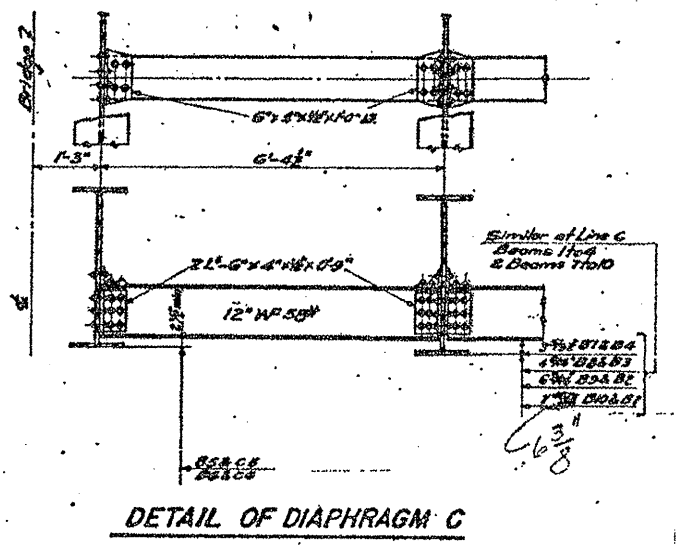
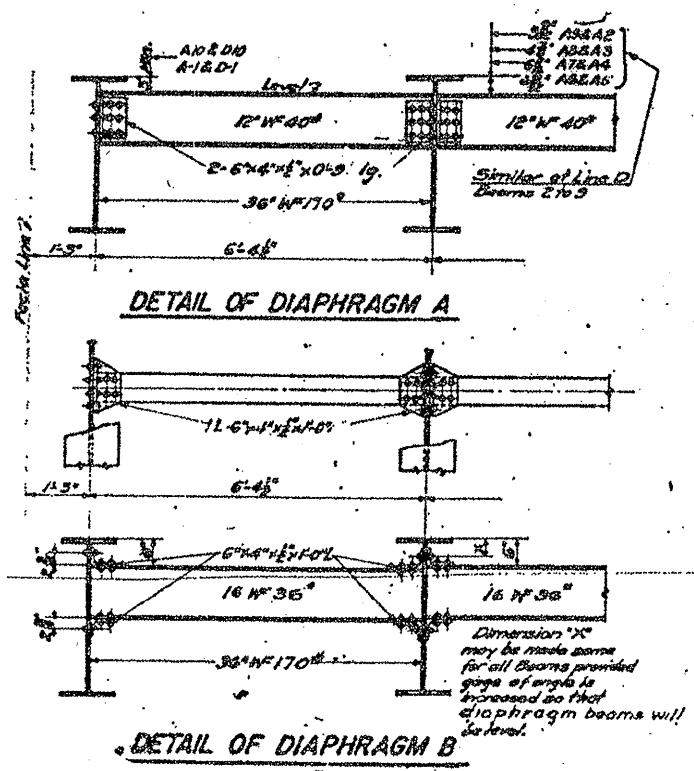
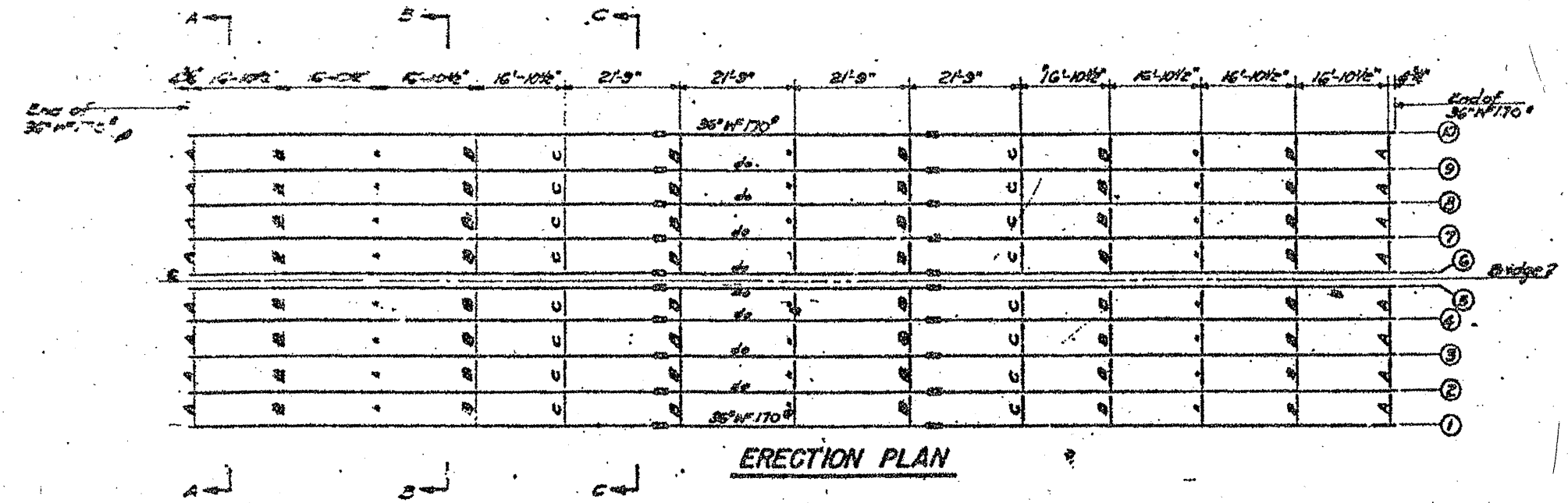
EXISTING BRIDGE PLAN

LOCATION 12: SN 016-0719
 HOWARD AVE. OVER NORTH SHORE CHANNEL

SH. 1 of 4

ROUTE VARIOUS	SECTION 2010-023 BP	COUNTY VARIOUS	TOTAL SHEETS 93	SHEET NUMBER 59
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CONTRACT NO. 60K48



Note:
Estimated Weight of 43,960 Lbs. for Beams, Diaphragms, Connection Angles, Cover Plates, Splice Plates and Rivets included in Weight of Structural Steel in the Summary of Quantities.

ILLINOIS DEPARTMENT OF
TRANSPORTATION

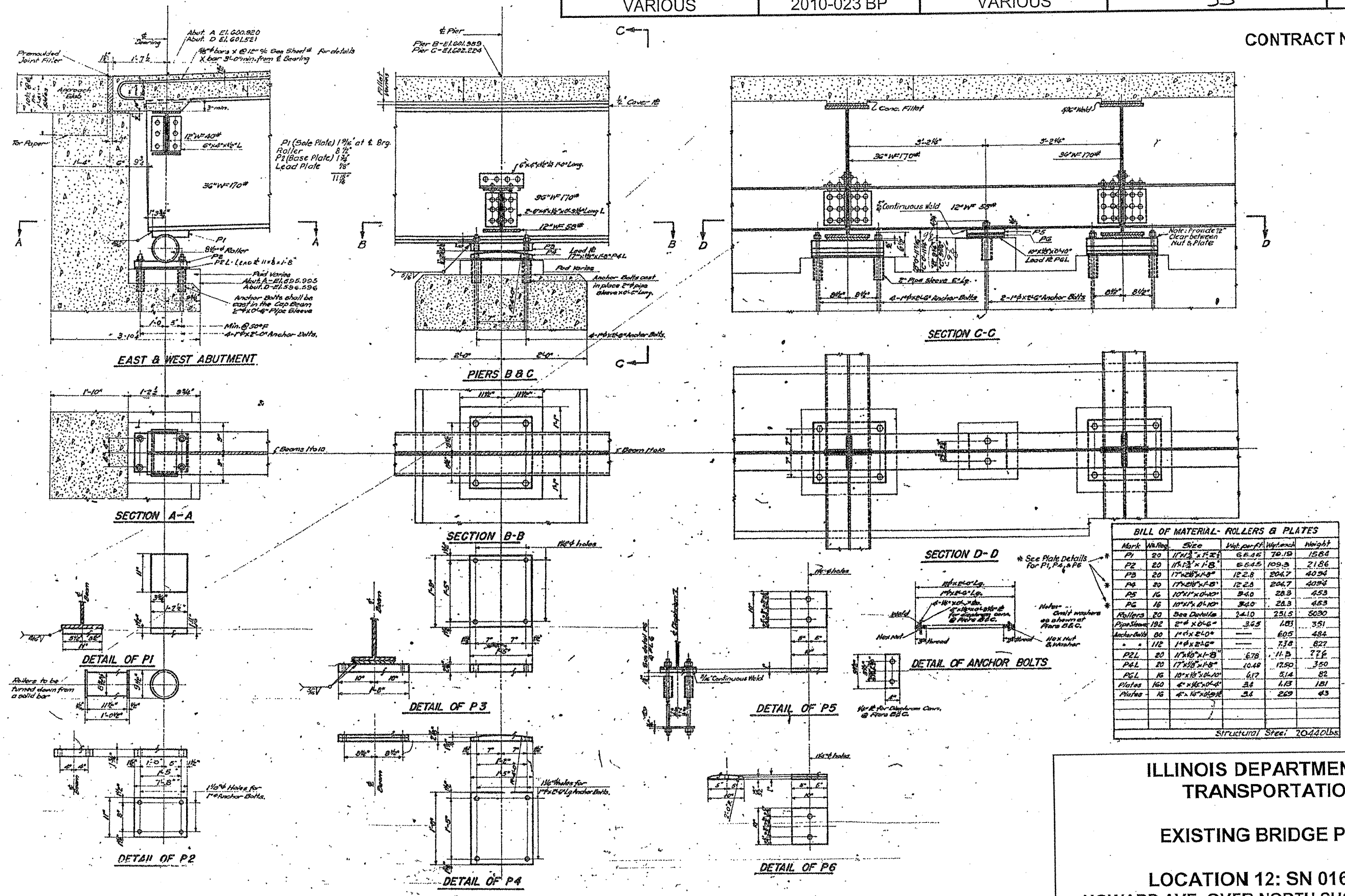
EXISTING BRIDGE PLAN

LOCATION 12: SN 016-0719
HOWARD AVE. OVER NORTH SHORE CHANNEL

SH. 2 of 4

ROUTE VARIOUS	SECTION 2010-023 BP	COUNTY VARIOUS	TOTAL SHEETS 93	SHEET NUMBER 60
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CONTRACT NO. 60K48



BILL OF MATERIAL - ROLLERS & PLATES

Mark	Qty	Size	Unit per ft	Weight	Weight
P1	20	17" x 12" x 1/2"	6.815	70.19	1584
P2	20	17" x 12" x 1/2"	6.815	109.3	2186
P3	20	17" x 28" x 1/2"	12.28	204.7	4094
P4	20	17" x 28" x 1/2"	12.28	204.7	4094
P5	16	10" x 10" x 1/2"	3.40	28.3	453
P6	16	10" x 10" x 1/2"	3.40	28.3	453
Rollers	20	See Details	24.10	251.5	5030
Pipe Steels	192	2" x 20" x 6"	3.65	181	351
Anchor Bolts	80	1" x 20" x 6"	---	605	484
		1/2" x 20" x 6"	---	738	827
P2L	20	17" x 10" x 1/2"	6.78	11.7	276
P4L	20	17" x 10" x 1/2"	10.48	17.50	350
Plates	160	4" x 16" x 1/2"	4.17	51.4	82
		4" x 16" x 1/2"	3.4	1.13	181
		4" x 16" x 1/2"	3.4	2.69	43

Structural Steel: 70440lbs

ILLINOIS DEPARTMENT OF
TRANSPORTATION

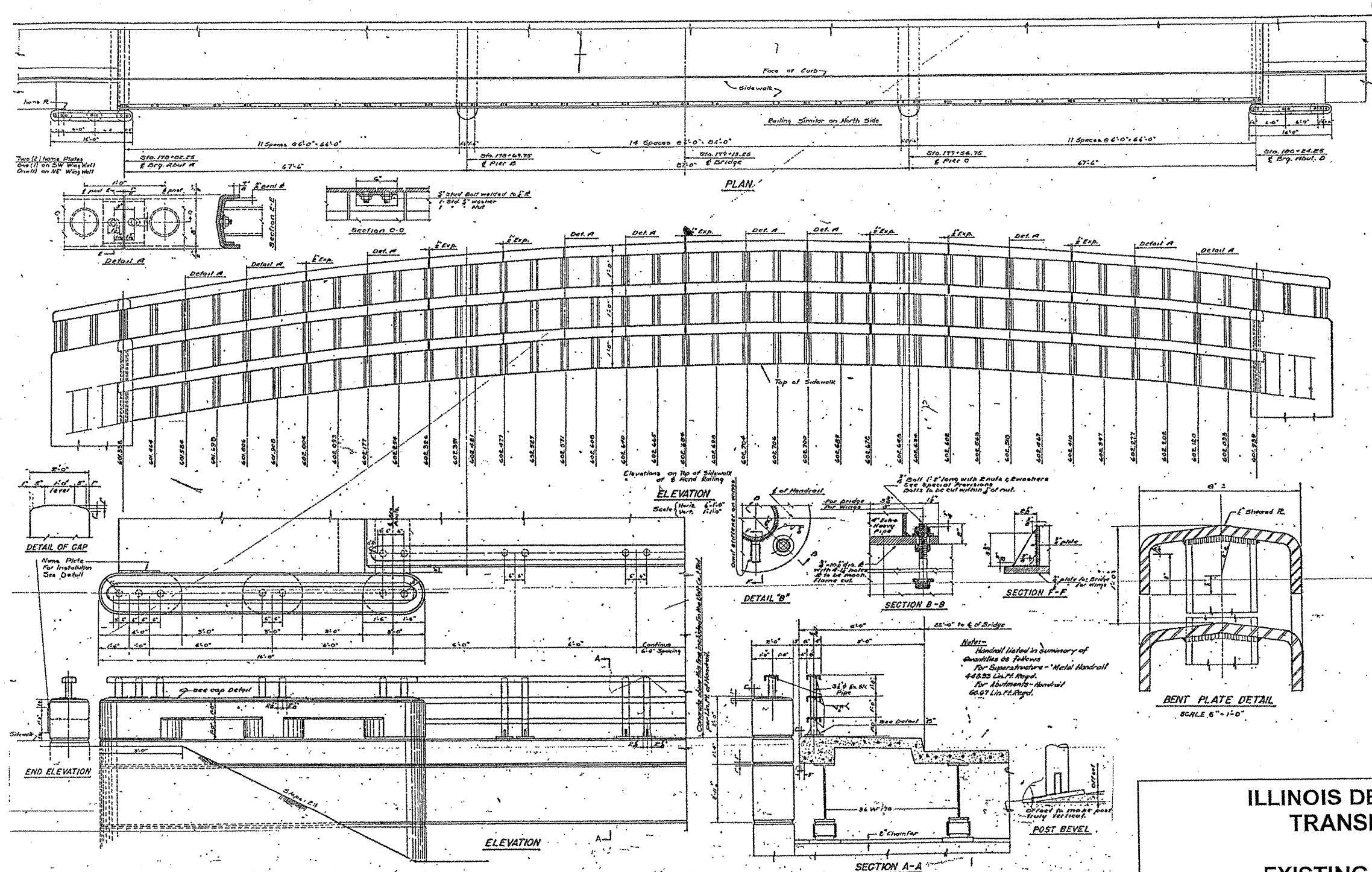
EXISTING BRIDGE PLAN

LOCATION 12: SN 016-0719
HOWARD AVE. OVER NORTH SHORE CHANNEL

SH. 3 of 4

ROUTE VARIOUS	SECTION 2010-023 BP	COUNTY VARIOUS	TOTAL SHEETS 93	SHEET NUMBER 61
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CONTRACT NO. 60K48



ILLINOIS DEPARTMENT OF
TRANSPORTATION

EXISTING BRIDGE PLAN

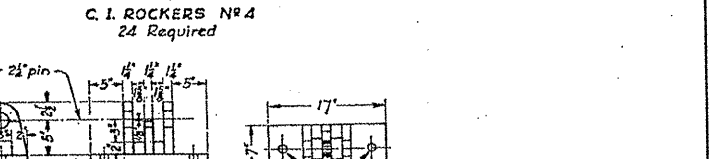
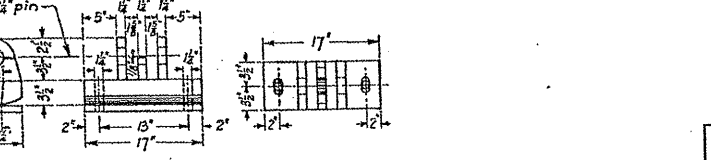
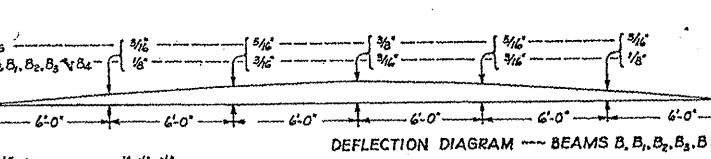
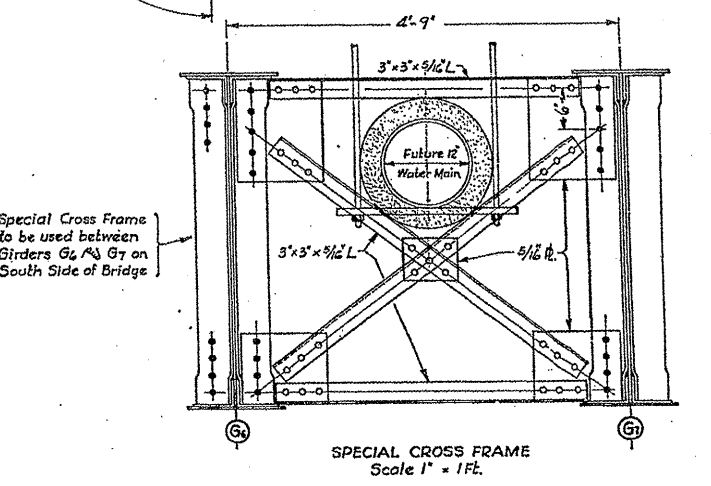
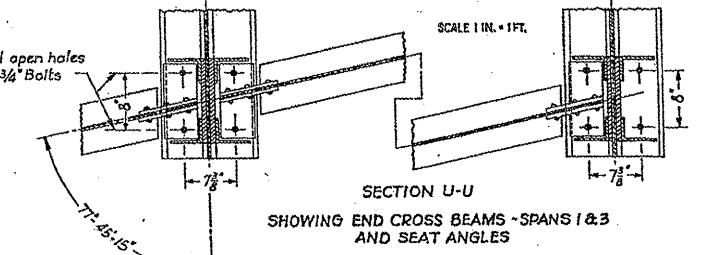
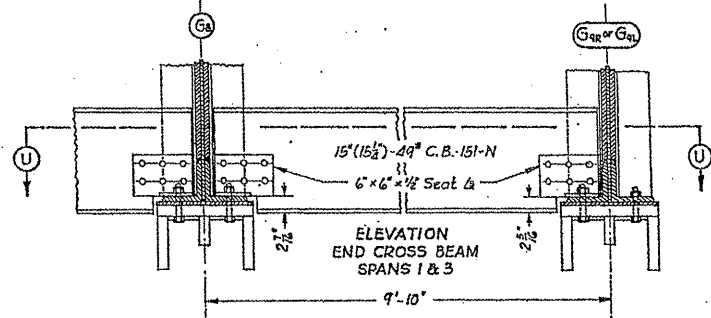
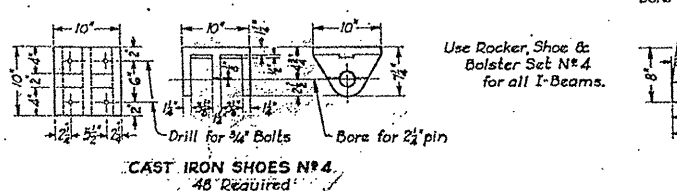
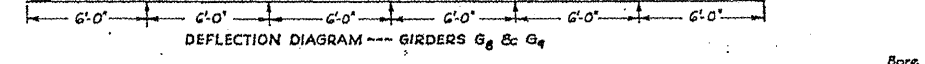
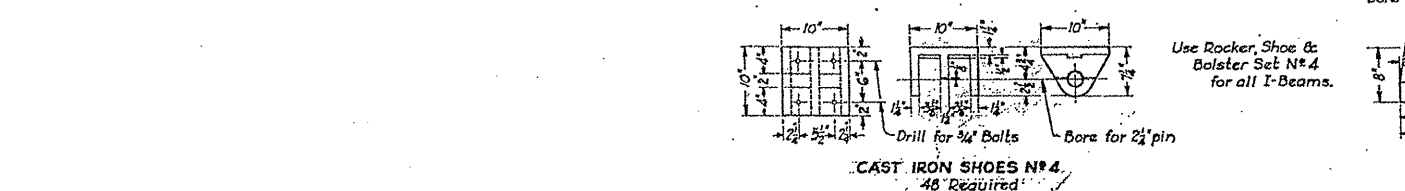
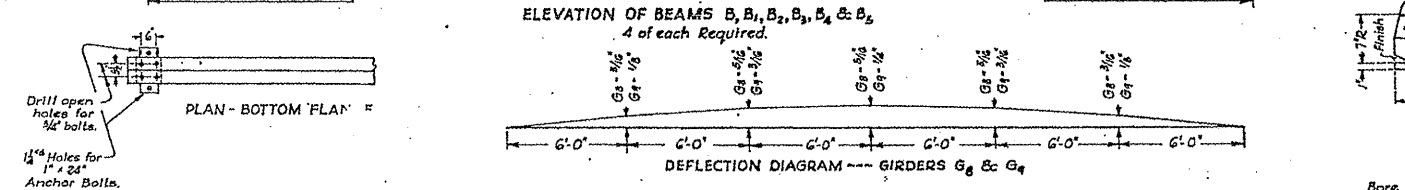
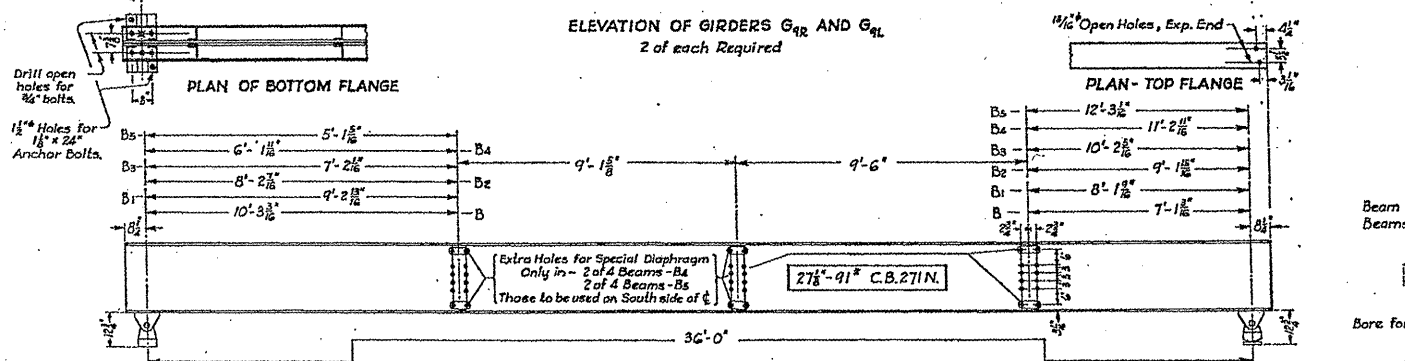
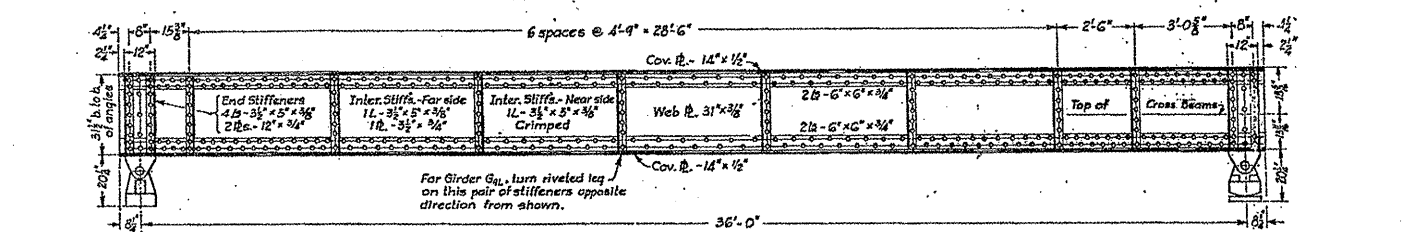
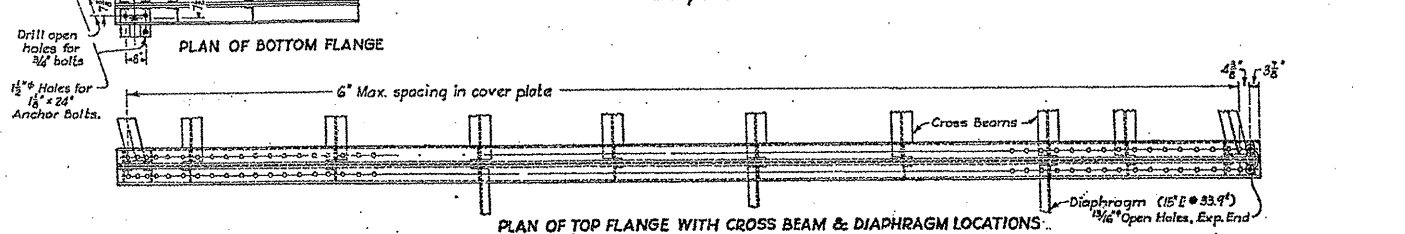
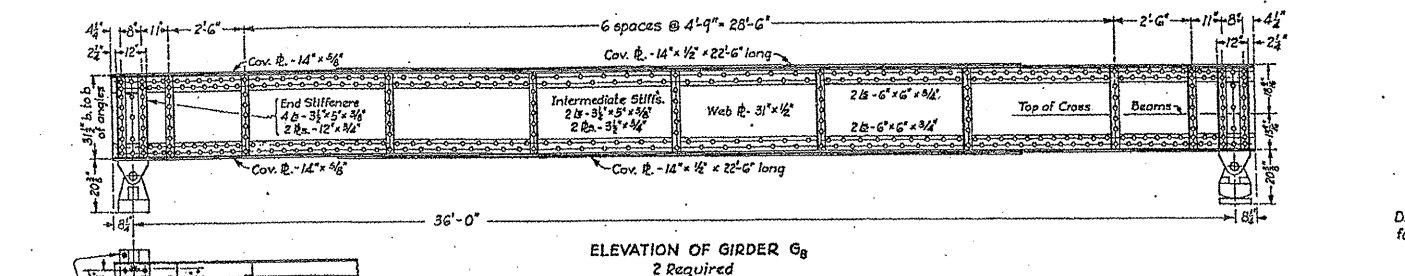
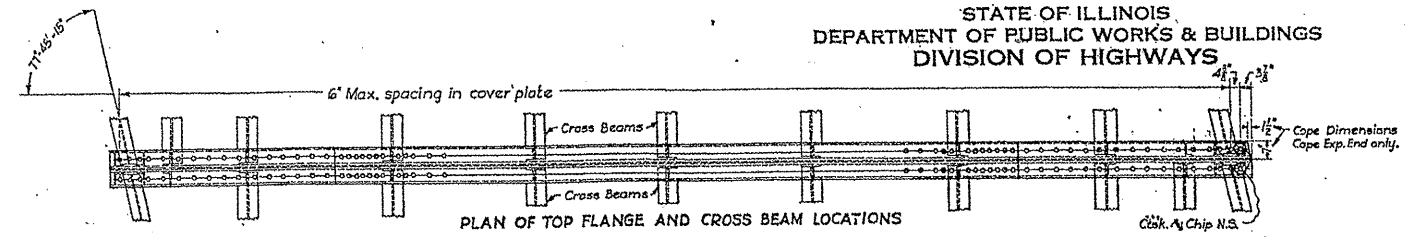
LOCATION 12: SN 016-0719
HOWARD AVE. OVER NORTH SHORE CHANNEL

SH. 4 of 4

ROUTE VARIOUS	SECTION 2010-023 BP	COUNTY VARIOUS	TOTAL SHEETS 93	SHEET NUMBER 63
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CONTRACT NO. 60K48

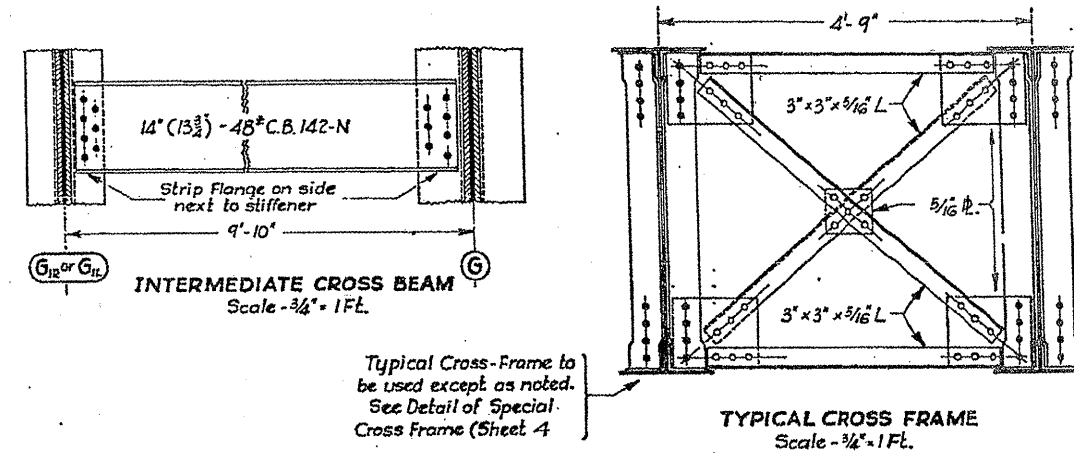
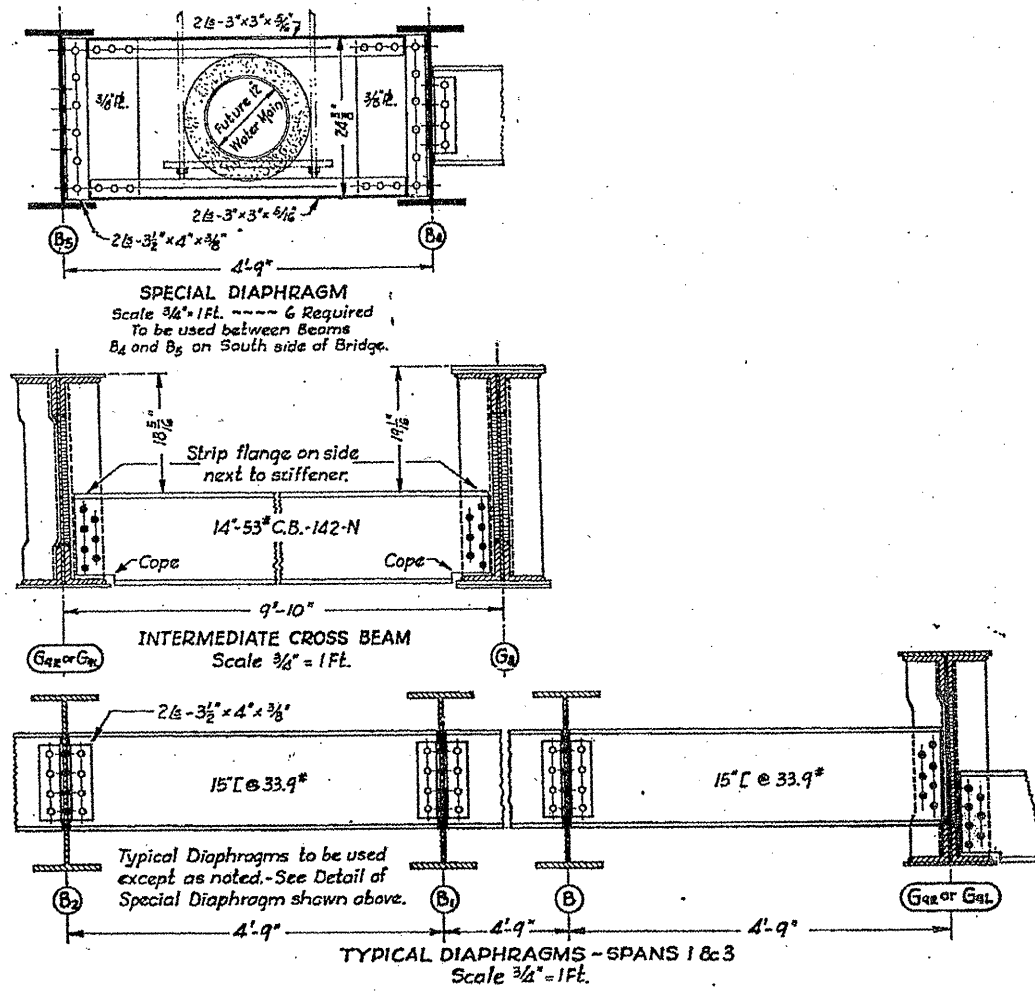
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS



ILLINOIS DEPARTMENT OF
TRANSPORTATION
EXISTING BRIDGE PLAN
LOCATION 13: SN 016-0367
PETERSON AVE. OVER NORTH SHORE CHANNEL

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2010-023 BP	VARIOUS	93	64

CONTRACT NO. 60K48



Typical Cross-Frame to be used except as noted. See Detail of Special Cross Frame (Sheet 4)

ILLINOIS DEPARTMENT OF
TRANSPORTATION

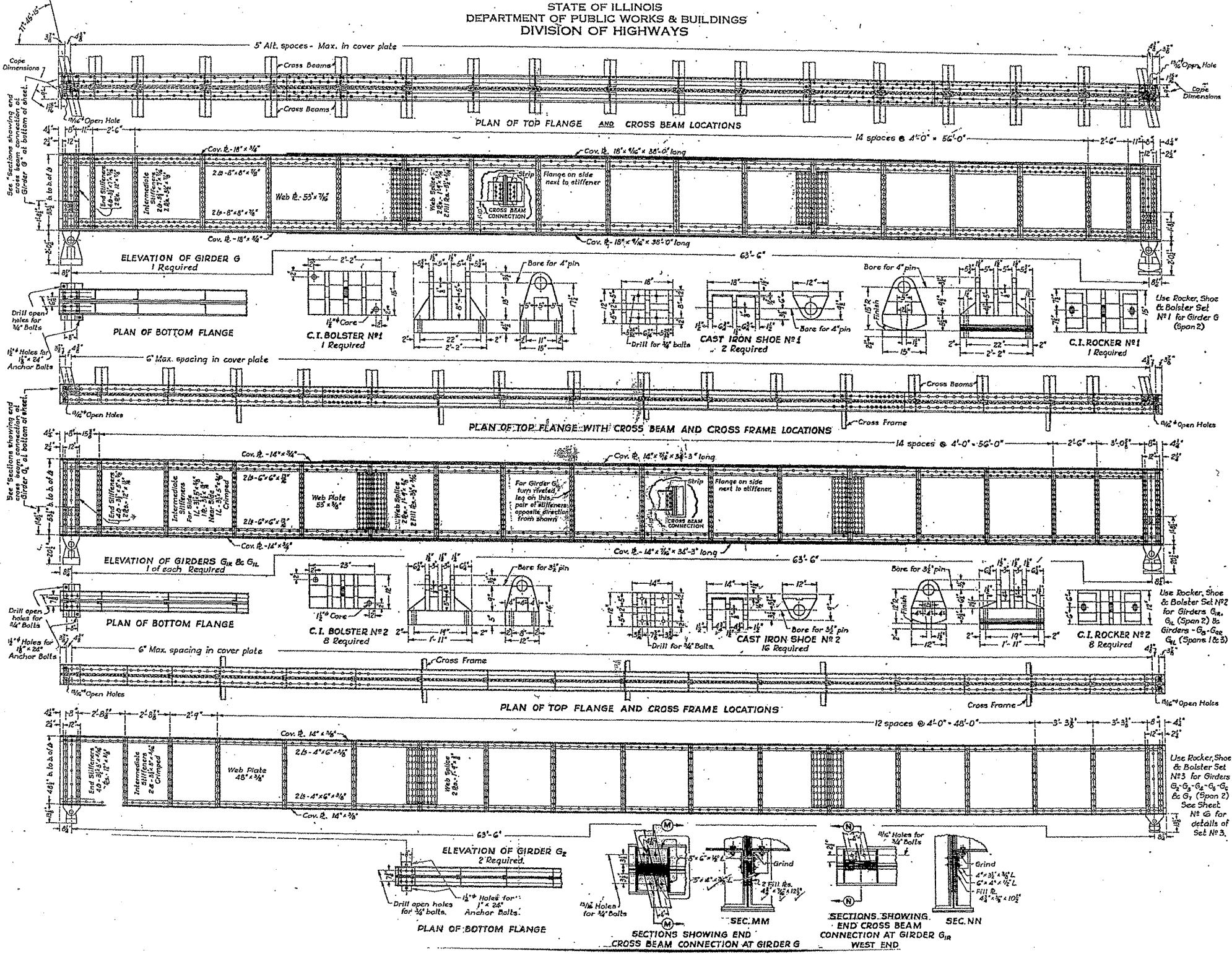
EXISTING BRIDGE PLAN

LOCATION 13: SN 016-0367
PETERSON AVE. OVER NORTH SHORE CHANNEL

SH 3 of 15

ROUTE VARIOUS	SECTION 2010-023 BP	COUNTY VARIOUS	TOTAL SHEETS 93	SHEET NUMBER 65
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CONTRACT NO. 60K48



ILLINOIS DEPARTMENT OF
TRANSPORTATION

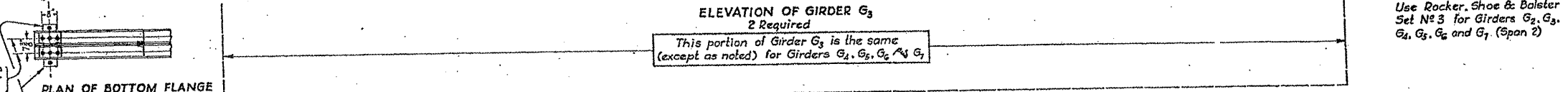
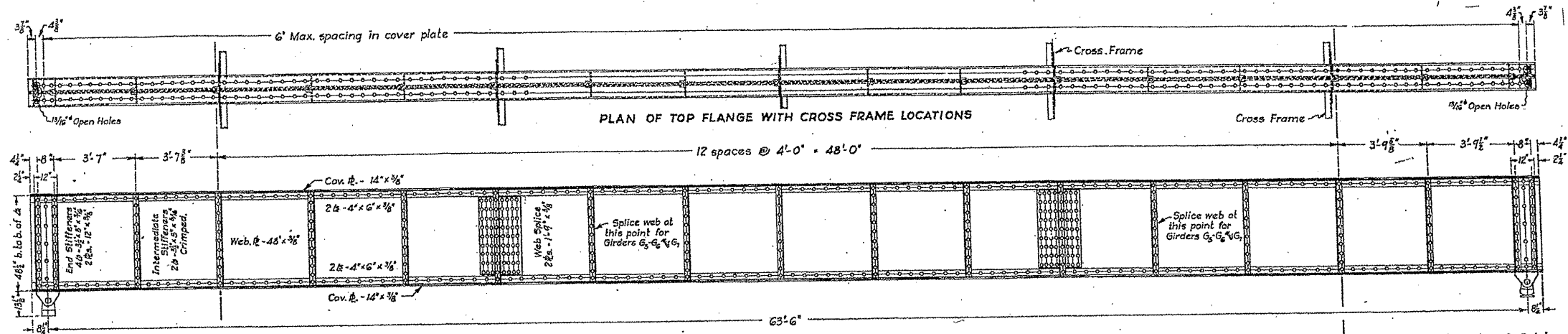
EXISTING BRIDGE PLAN

LOCATION 13: SN 016-0367
PETERSON AVE. OVER NORTH SHORE CHANNEL

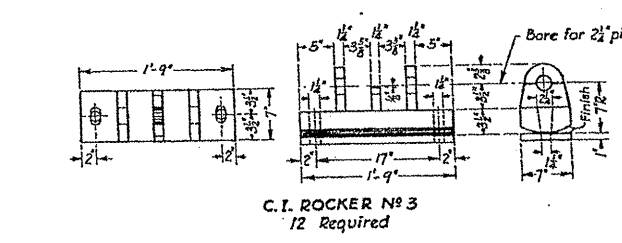
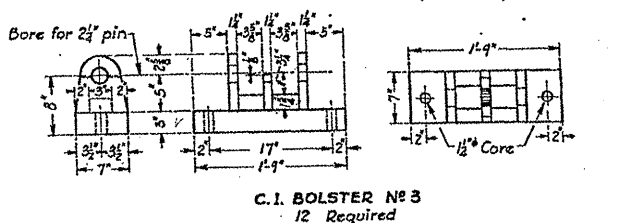
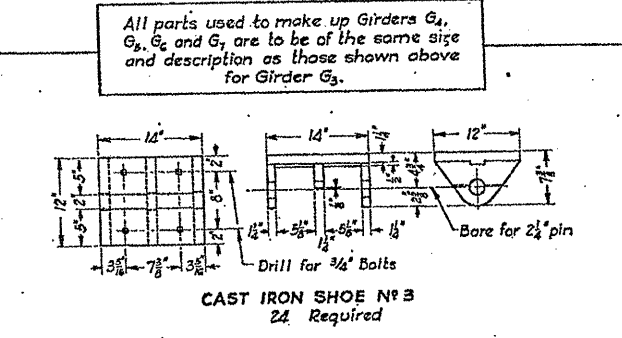
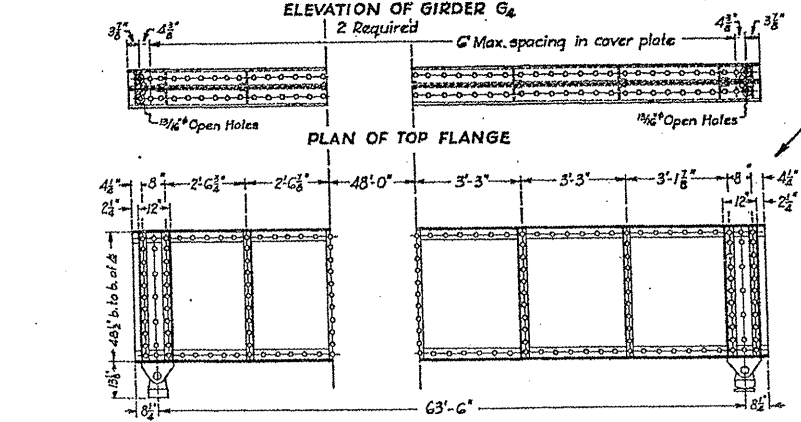
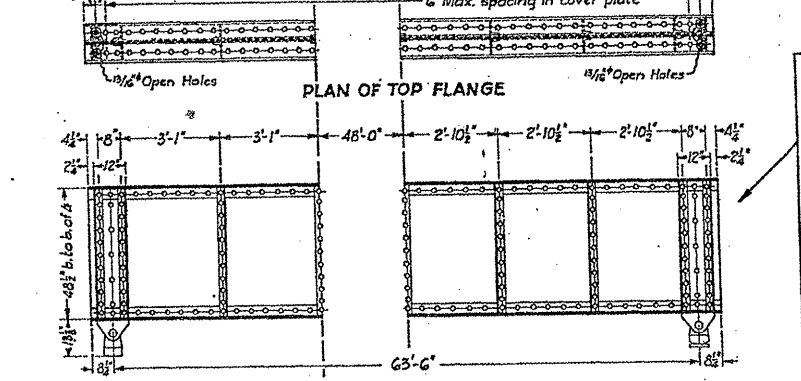
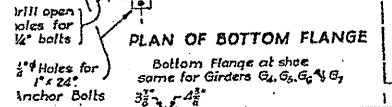
SH. 4 of 15

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2010-023 BP	VARIOUS	93	66

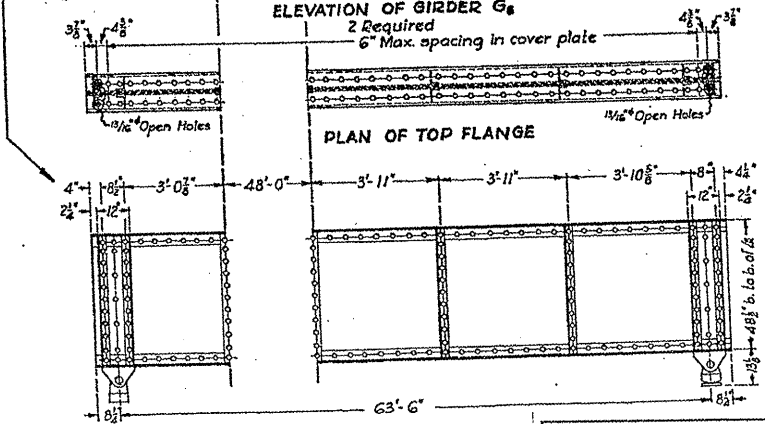
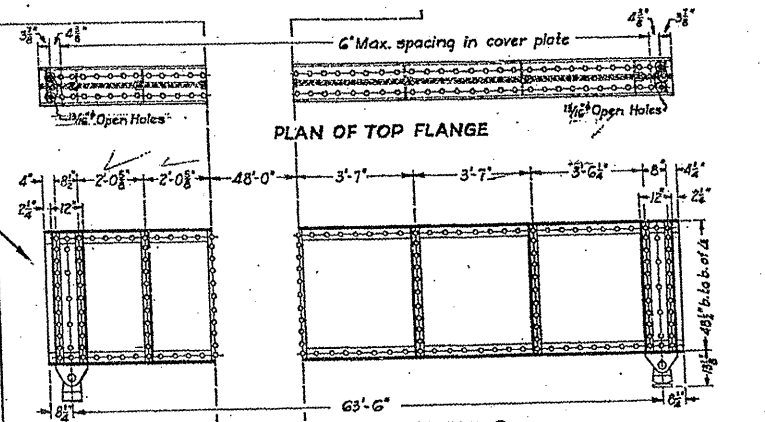
CONTRACT NO. 60K48



Use Rocker, Shoe & Bolster Set No 3 for Girders G2, G3, G4, G5, G6 and G7 (Span 2)



All parts used to make up Girders G4, G5, G6 and G7 are to be of the same size and description as those shown above for Girder G3.



ILLINOIS DEPARTMENT OF
TRANSPORTATION

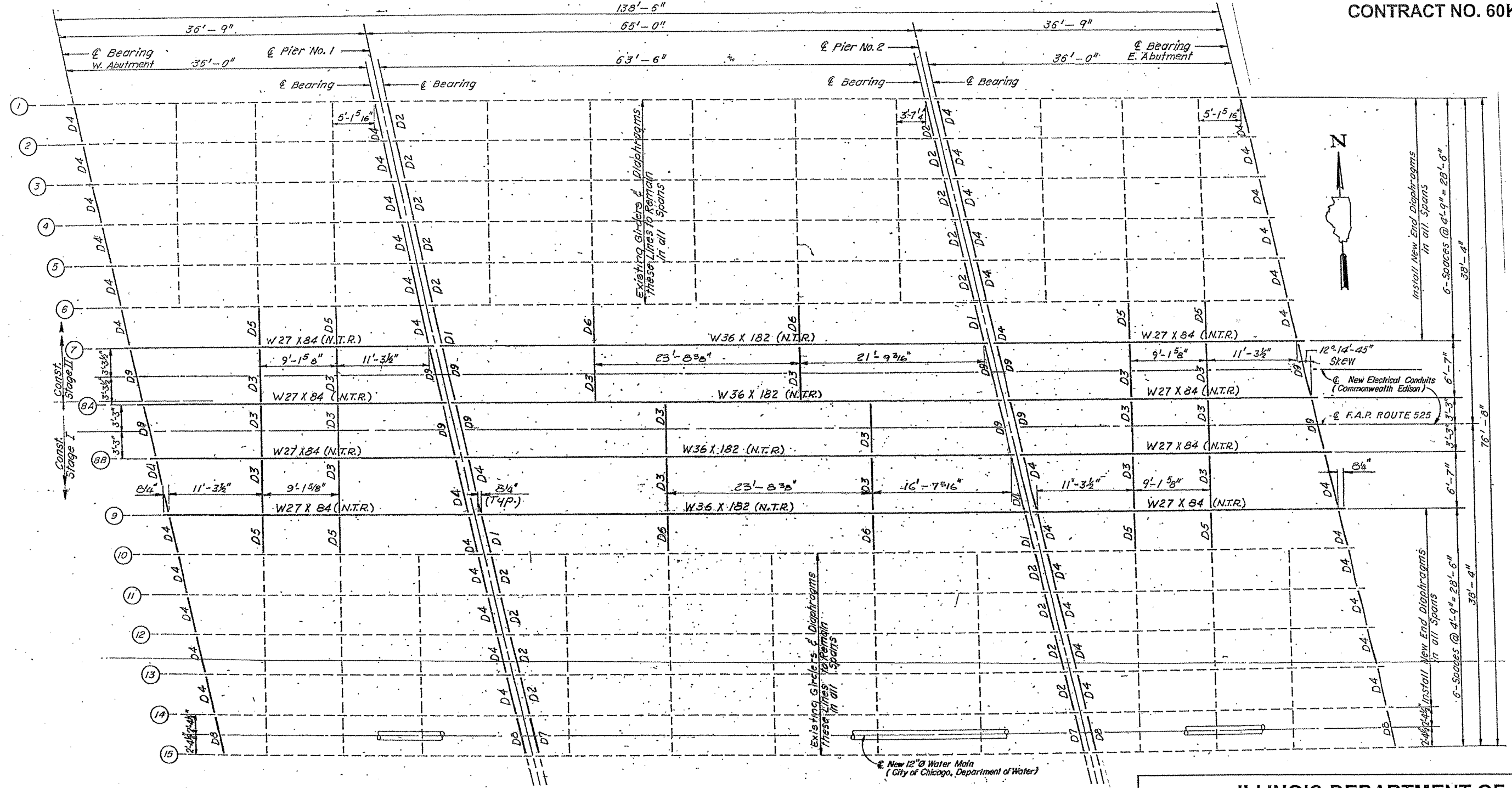
EXISTING BRIDGE PLAN

LOCATION 13: SN 016-0367
PETERSON AVE. OVER NORTH SHORE CHANNEL

SH. 5 of 15

ROUTE VARIOUS	SECTION 2010-023 BP	COUNTY VARIOUS	TOTAL SHEETS 93	SHEET NUMBER 67
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CONTRACT NO. 60K48



LEGEND:
 - - - Existing Members to Remain
 — New Members
 D1 & D2 etc. New Diaphragms

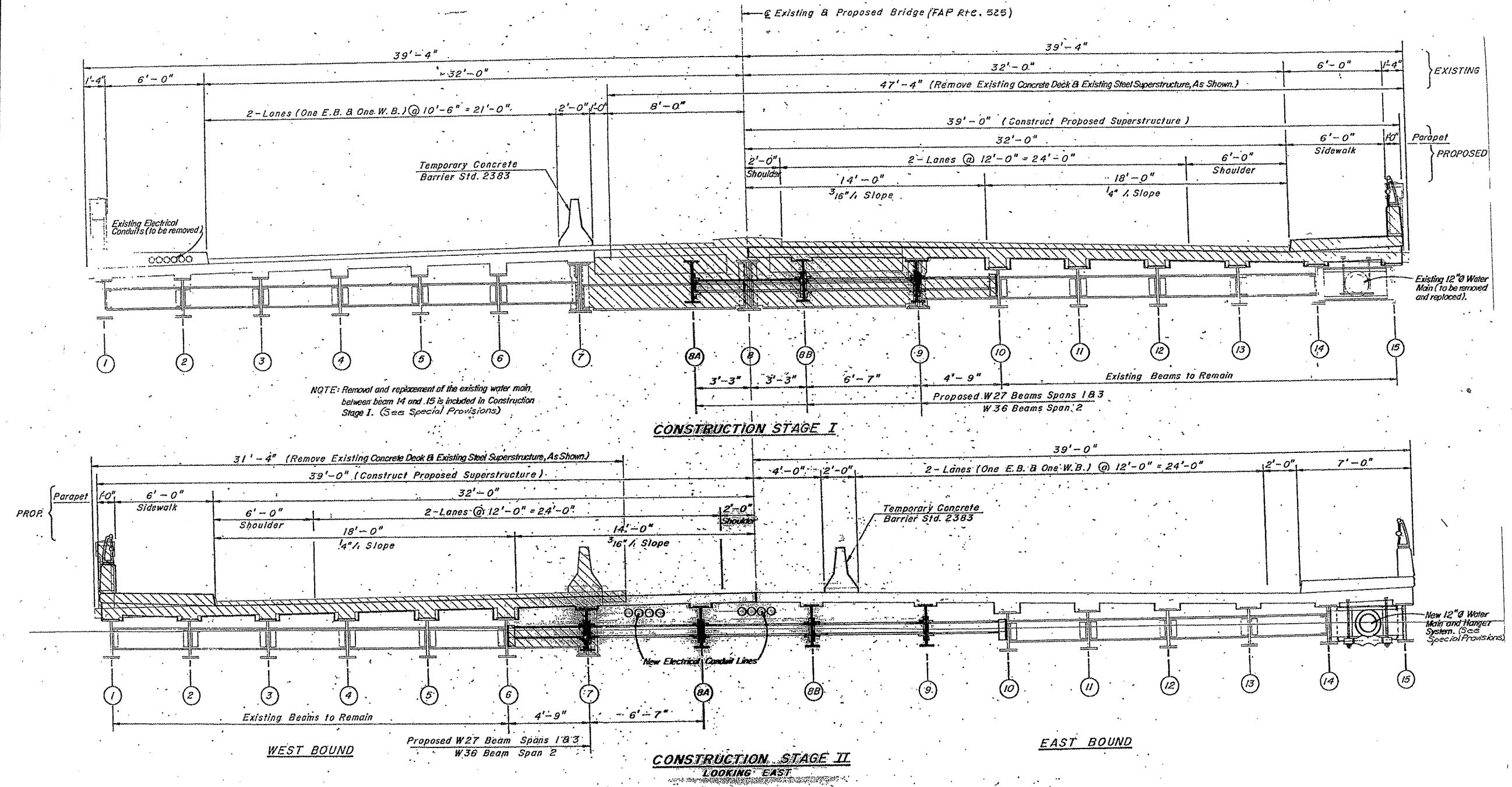
PROPOSED FRAMING PLAN
 Showing Replacement and Additional Members

**ILLINOIS DEPARTMENT OF
 TRANSPORTATION**
EXISTING BRIDGE PLAN
LOCATION 13: SN 016-0367
PETERSON AVE. OVER NORTH SHORE CHANNEL

SH. 6 of 15

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2010-023 BP	VARIOUS	93	68

CONTRACT NO. 60K48



ILLINOIS DEPARTMENT OF
TRANSPORTATION

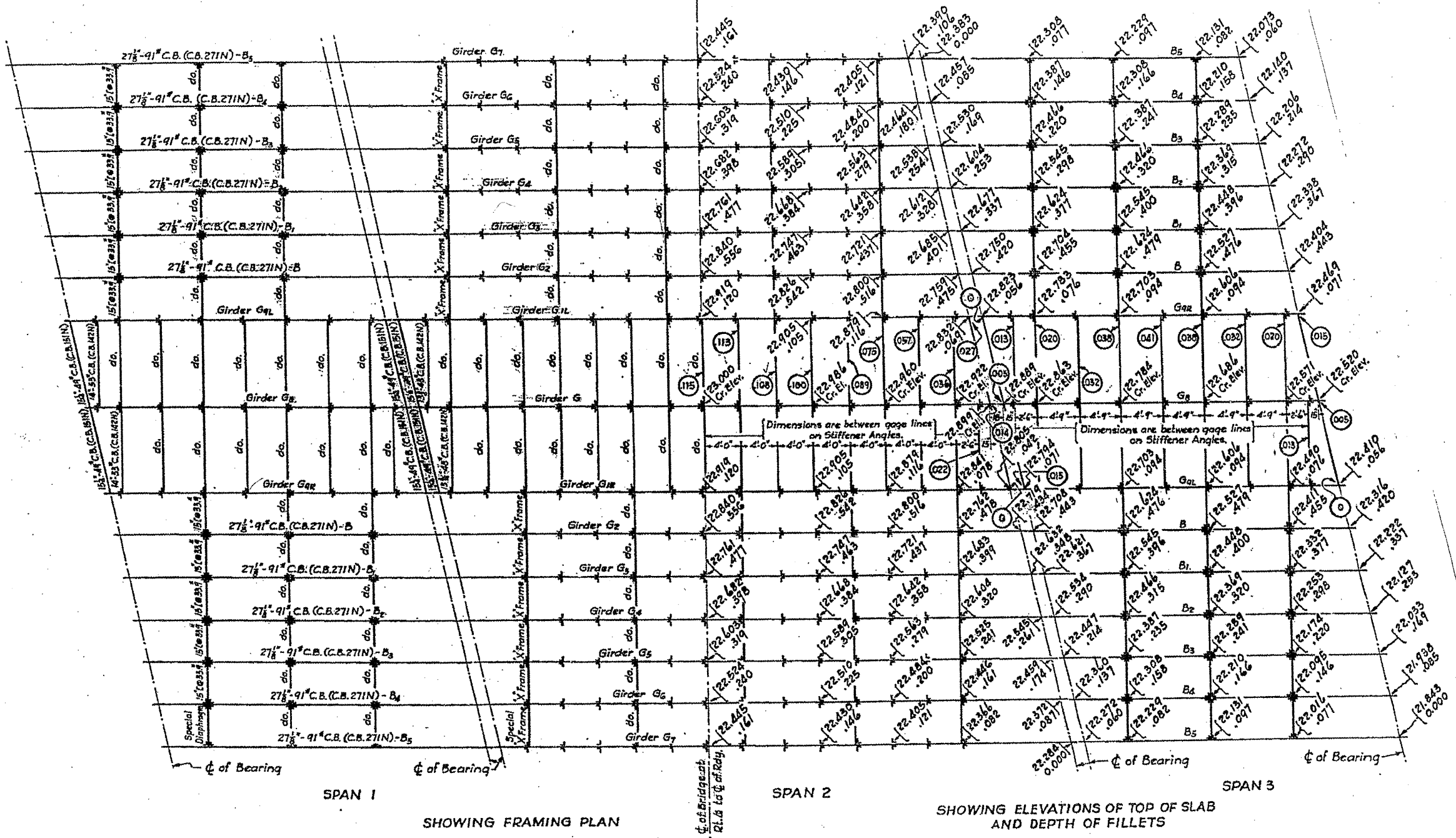
EXISTING BRIDGE PLAN

LOCATION 13: SN 016-0367
PETERSON AVE. OVER NORTH SHORE CHANNEL

SH. 7 of 15

ROUTE VARIOUS	SECTION 2010-023 BP	COUNTY VARIOUS	TOTAL SHEETS 93	SHEET NUMBER 69
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CONTRACT NO. 60K48



SPAN 1

SPAN 2

SPAN 3

SHOWING FRAMING PLAN

SHOWING ELEVATIONS OF TOP OF SLAB AND DEPTH OF FILLETS

LINE DIAGRAM

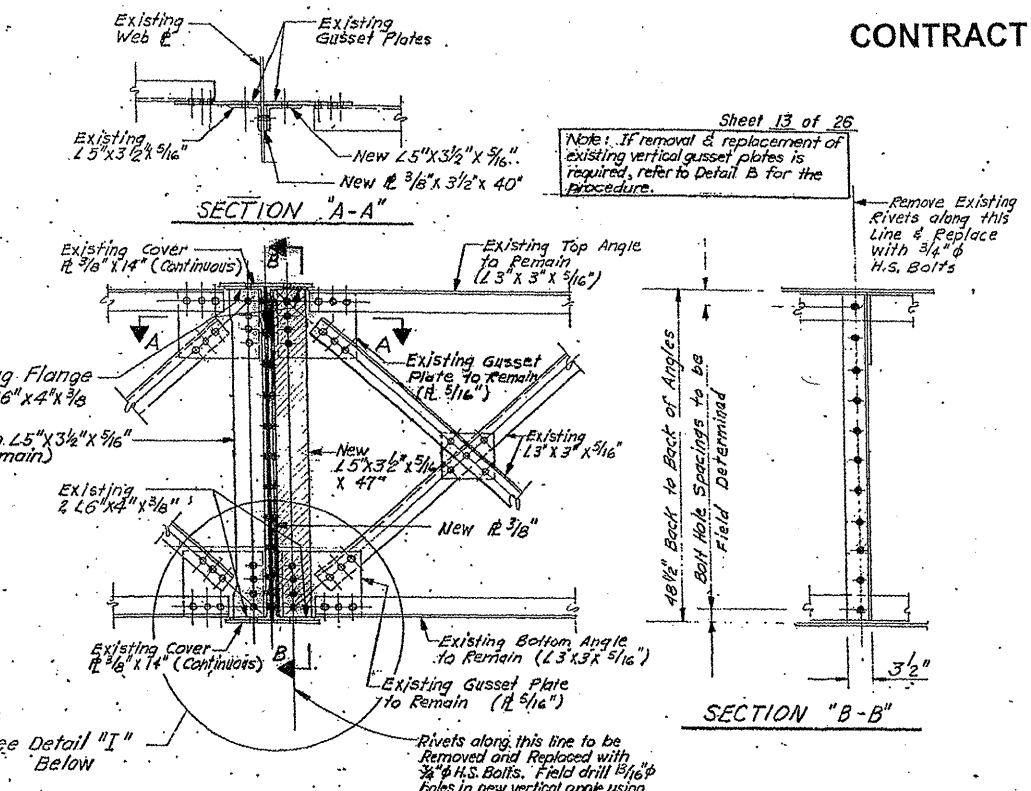
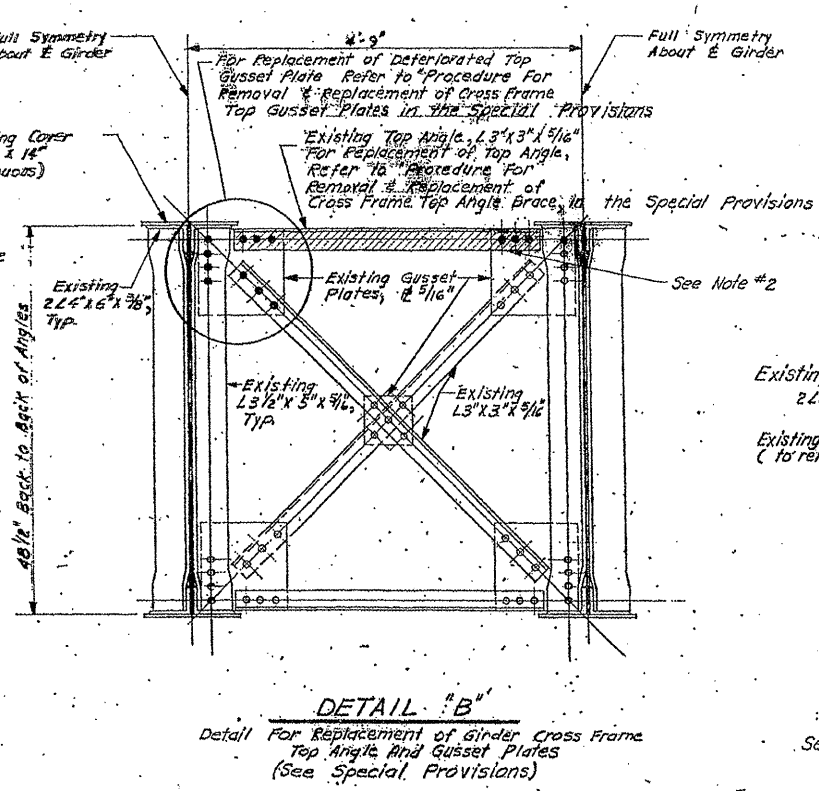
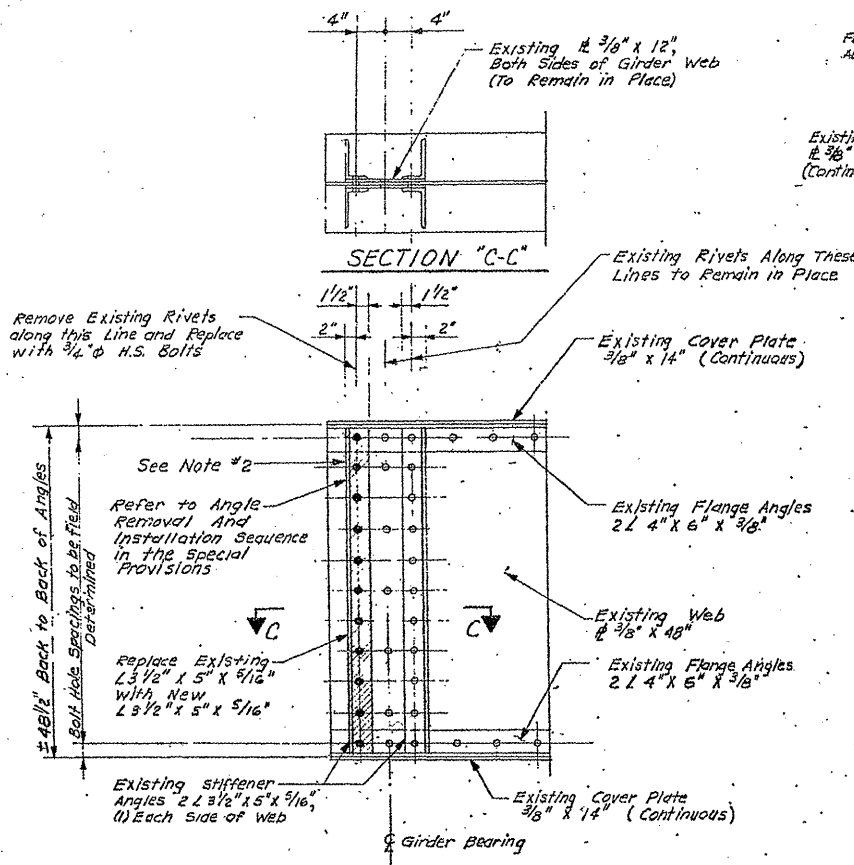
Explanation:-
 22.272 - Indicating Elevation of Roadway Surface at point indicated.
 .060 - Indicating depth of Longitudinal Fillet in feet at point indicated, including deflection increments for all I-Beams.
 115 - Indicating depth of transverse fillets (on cross beams). Fillets remain a constant depth on cross beams perpendicular to ϕ of Rdg.

ILLINOIS DEPARTMENT OF
 TRANSPORTATION
 EXISTING BRIDGE PLAN
 LOCATION 13: SN 016-0367
 PETERSON AVE. OVER NORTH SHORE CHANNEL

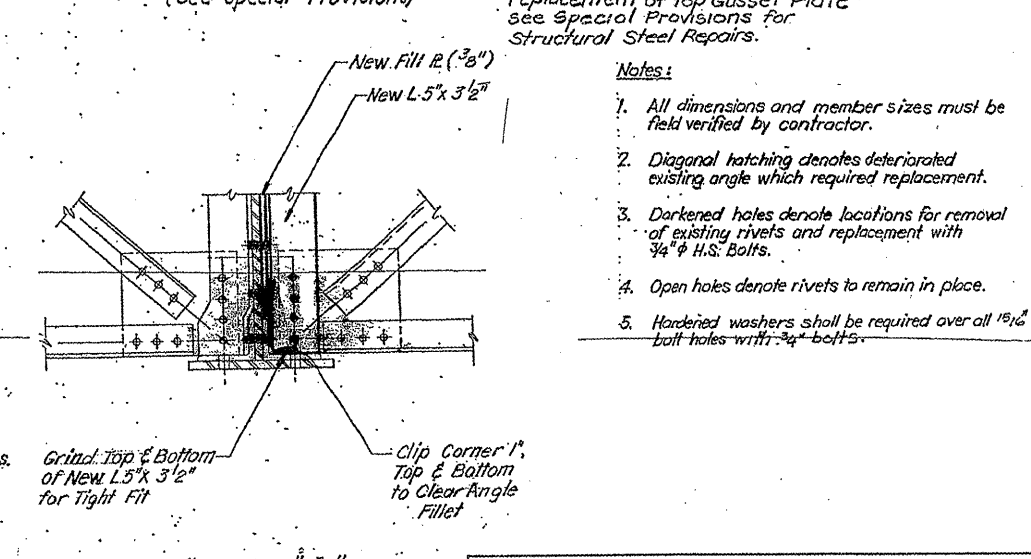
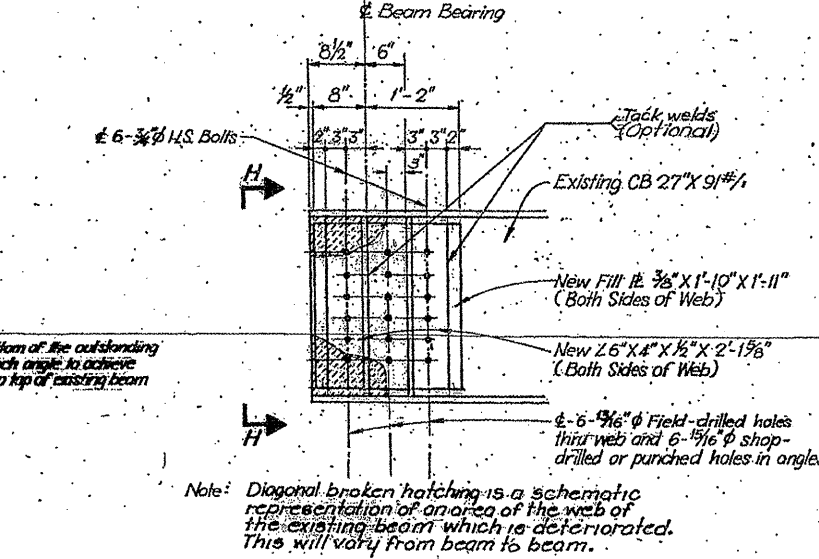
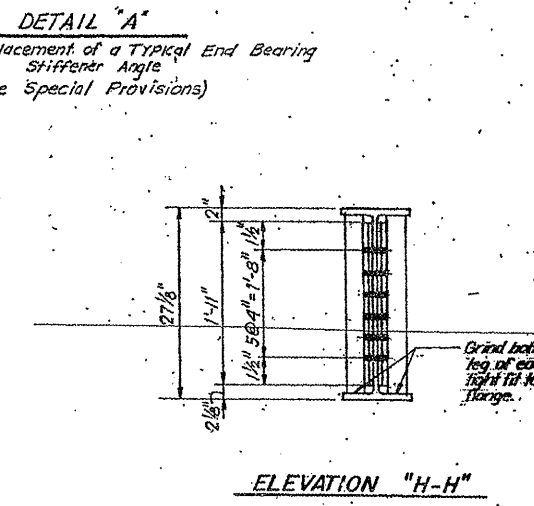
SH. 8 of 15

ROUTE VARIOUS	SECTION 2010-023 BP	COUNTY VARIOUS	TOTAL SHEETS 93	SHEET NUMBER 70
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CONTRACT NO. 60K48



Sheet 13 of 26
Note: If removal & replacement of existing vertical gusset plates is required, refer to Detail B for the procedure.
Remove Existing Rivets along this Line & Replace with 3/4" φ H.S. Bolts
48 1/2" Back to Back of Angles
Bolt Hole Spacings to be Field Determined



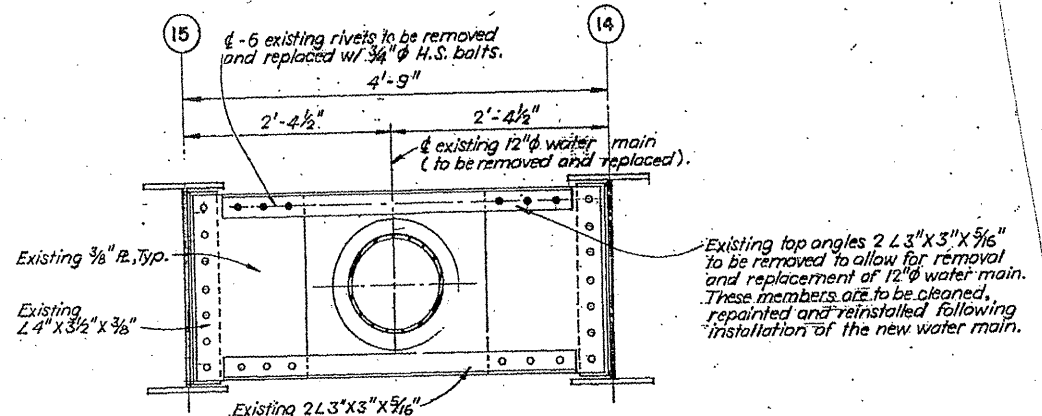
- Notes:
- All dimensions and member sizes must be field verified by contractor.
 - Diagonal hatching denotes deteriorated existing angle which required replacement.
 - Darkened holes denote locations for removal of existing rivets and replacement with 3/4" φ H.S. Bolts.
 - Open holes denote rivets to remain in place.
 - Hardened washers shall be required over all 1 1/16" φ bolt holes with 3/4" bolts.

ILLINOIS DEPARTMENT OF
TRANSPORTATION
EXISTING BRIDGE PLAN
LOCATION 13: SN 016-0367
PETERSON AVE. OVER NORTH SHORE CHANNEL

SH. 9 of 15

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2010-023 BP	VARIOUS	93	71

CONTRACT NO. 60K48

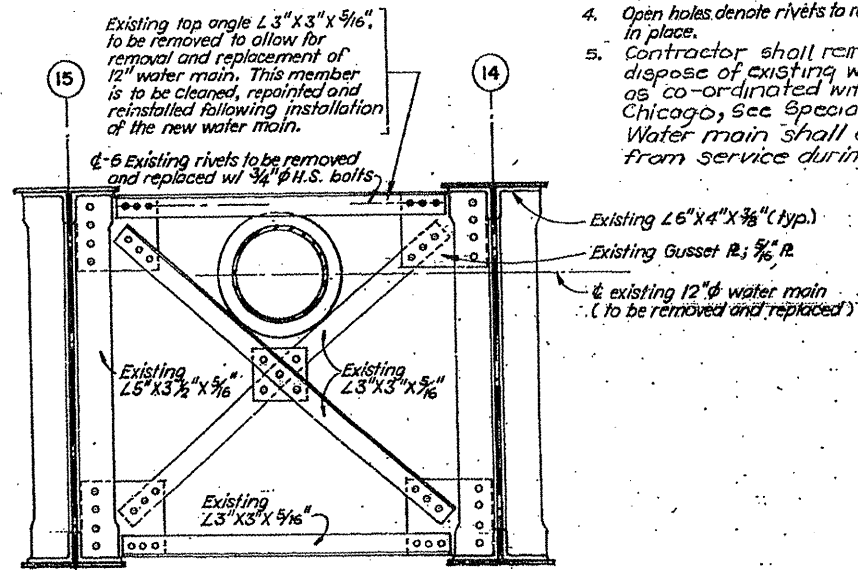


SECTION F-F

Detail for removal and replacement of intermediate diaphragm top angle to allow for installation of new water main.

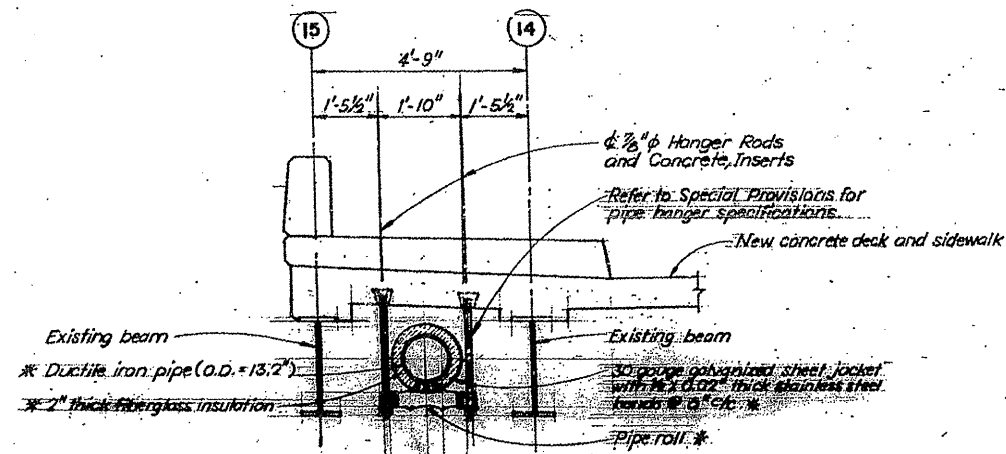
NOTES:

1. Refer to Sheet 11 for locations of Sections F-F and G-G.
2. All dimensions and existing member sizes must be field verified by contractor.
3. Darkened holes denote locations for removal of existing rivets and replacement with 3/4" H.S. bolts.
4. Open holes denote rivets to remain in place.
5. Contractor shall remove and dispose of existing water main as co-ordinated with City of Chicago, see Special Provisions. Water main shall be removed from service during construction.



SECTION G-G

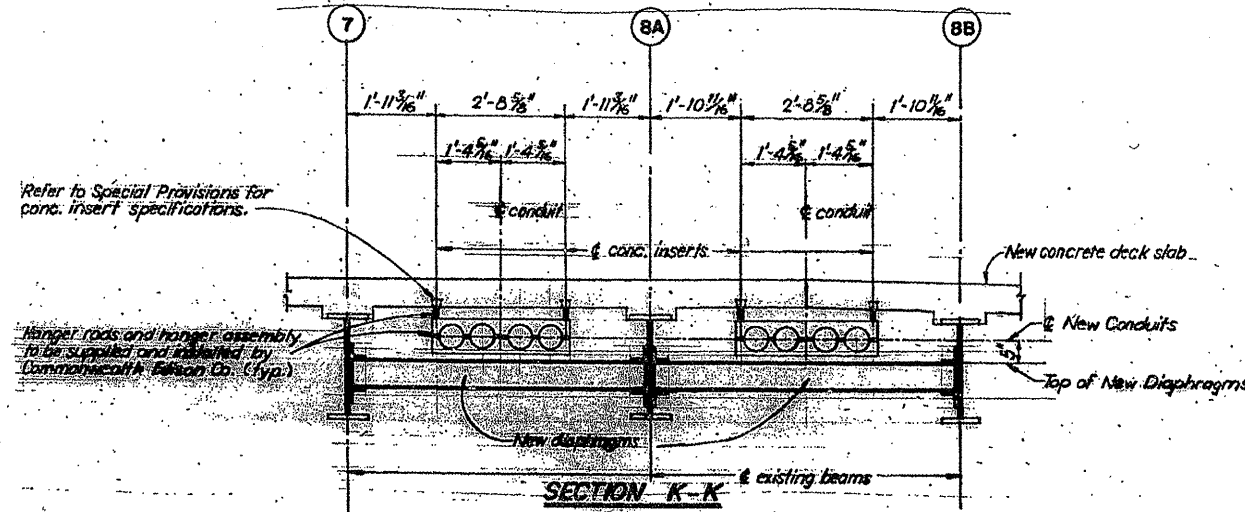
Detail for removal and replacement of intermediate cross frame top angle to allow for installation of new water main.



SECTION J-J

NOTE: Pipe to be installed by the City of Chicago Bureau of Water Distribution.

* See Special Pro



SECTION K-K

ILLINOIS DEPARTMENT OF
TRANSPORTATION

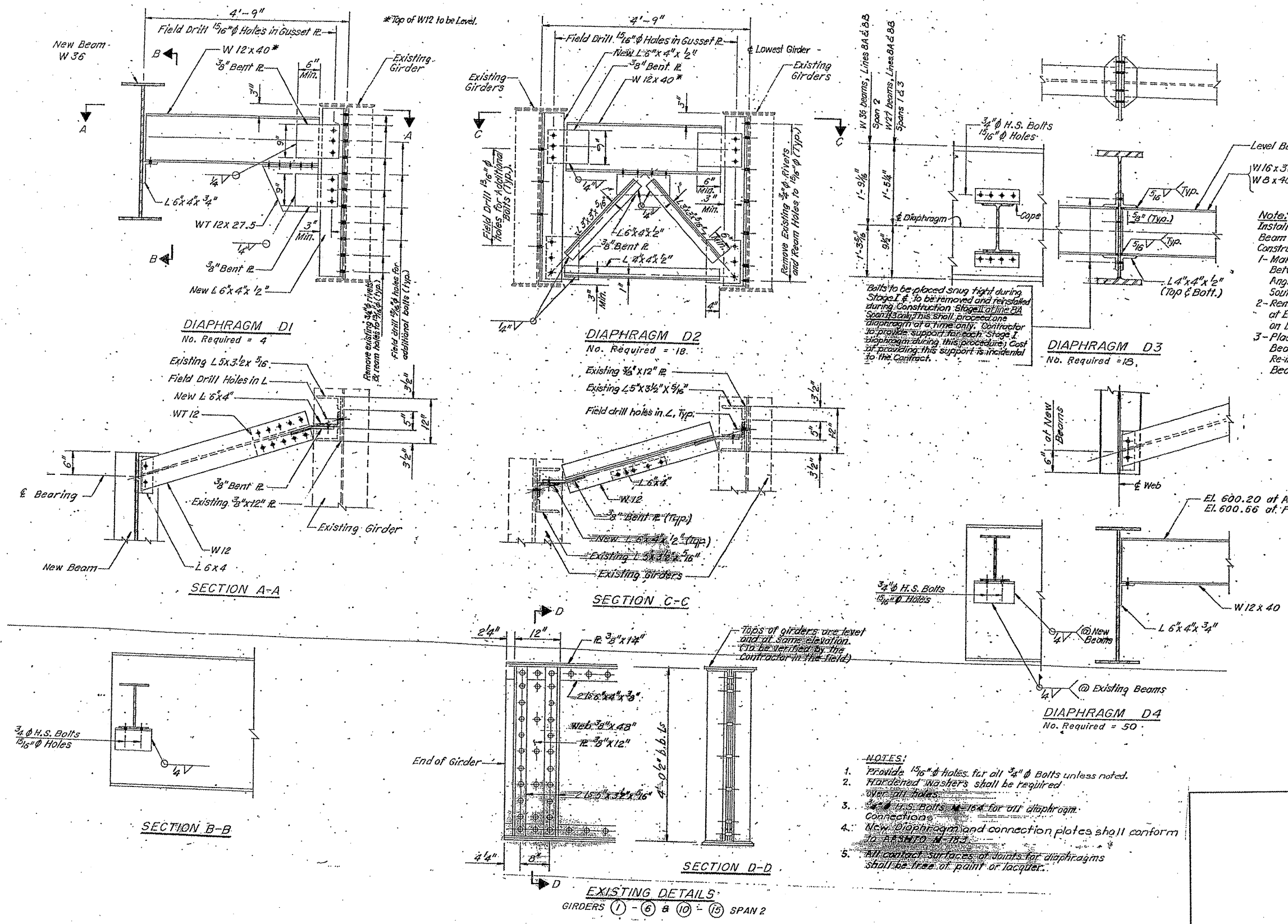
EXISTING BRIDGE PLAN

LOCATION 13: SN 016-0367
PETERSON AVE. OVER NORTH SHORE CHANNEL

SH. 10 of 15

ROUTE VARIOUS	SECTION 2010-023 BP	COUNTY VARIOUS	TOTAL SHEETS 93	SHEET NUMBER 72
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CONTRACT NO. 60K48



Note:
Installation of D3 Diaphragms Between Beam Lines 7 & 8A in Stage II Construction to Proceed as Follows:
1- Make Special Welds as Detailed, Between L4x4 Connection Angles At D3 Diaphragms on South Side of Beam on Line 8A.
2- Remove All Eight Connection Bolts of Each D3 Diaphragm, at Beam on Line 8A.
3- Place D3 Diaphragms Between Beams on Line 7 & 8A, and Re-install 8 Connection Bolts of Beam on Line 8A.

Bolts to be placed snug tight during Stage I & to be removed and reinstalled during Construction Stage II of Line 8A. Span 2 only this shall protect one diaphragm at a time only. Contractor to provide support for each Stage I diaphragm during this procedure. Cost of providing this support is incidental to the Contract.

- NOTES:**
- Provide 1 1/2" holes for all 3/4" bolts unless noted.
 - Hardened washers shall be required over all holes.
 - 3/4" H.S. Bolts - 10K for all diaphragm connections.
 - New diaphragm and connection plates shall conform to AASHTO M-17.7.
 - All contact surfaces of joints for diaphragms shall be free of paint or lacquer.

ILLINOIS DEPARTMENT OF
TRANSPORTATION

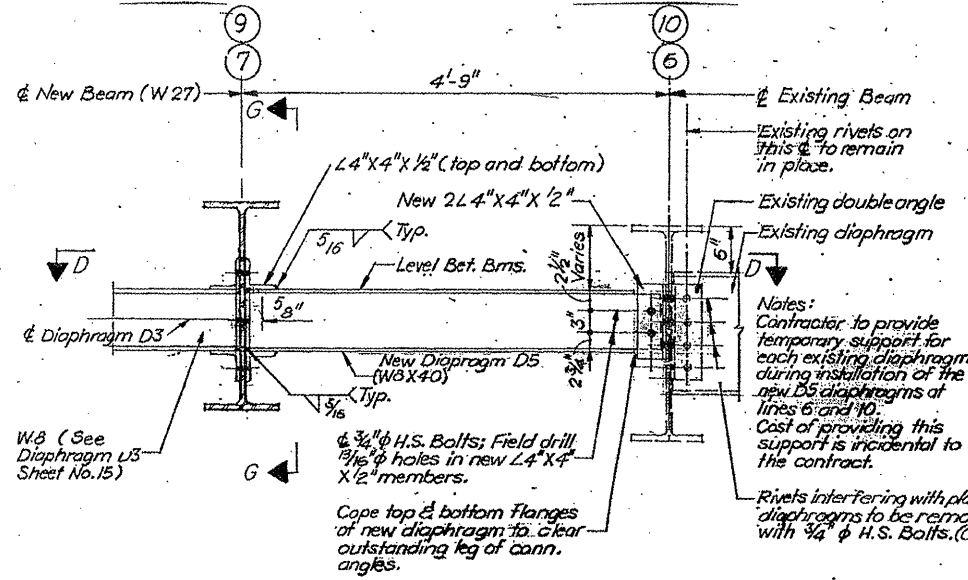
EXISTING BRIDGE PLAN

LOCATION 13: SN 016-0367
PETERSON AVE. OVER NORTH SHORE CHANNEL

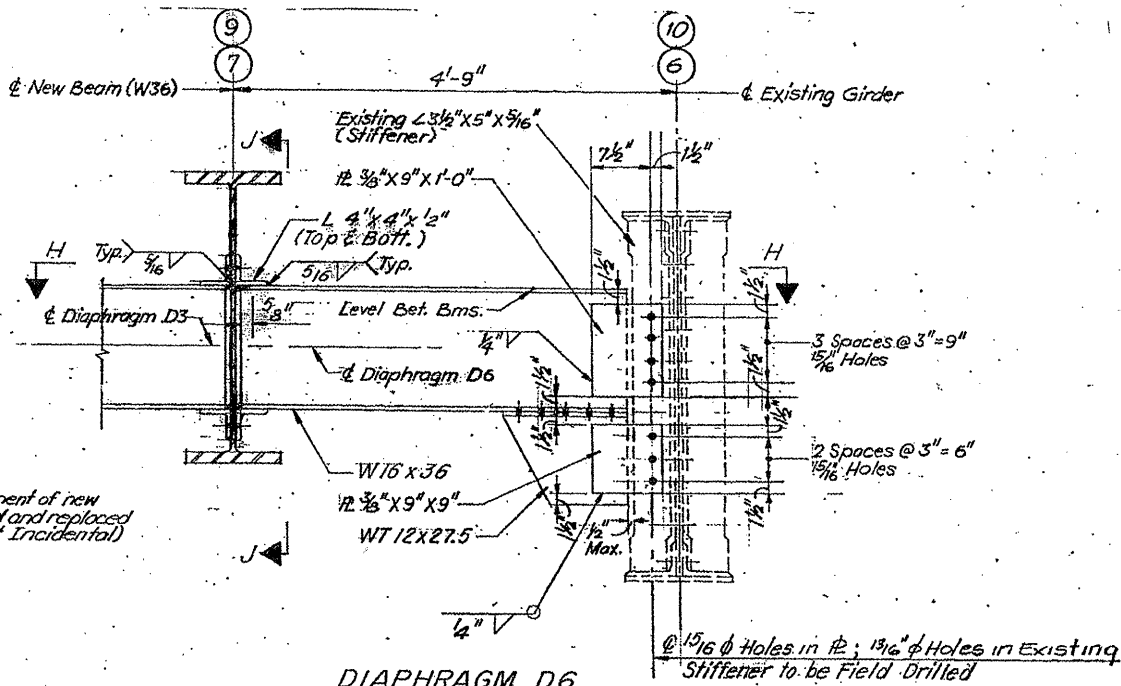
SH. 11 of 15

ROUTE VARIOUS	SECTION 2010-023 BP	COUNTY VARIOUS	TOTAL SHEETS 93	SHEET NUMBER 73
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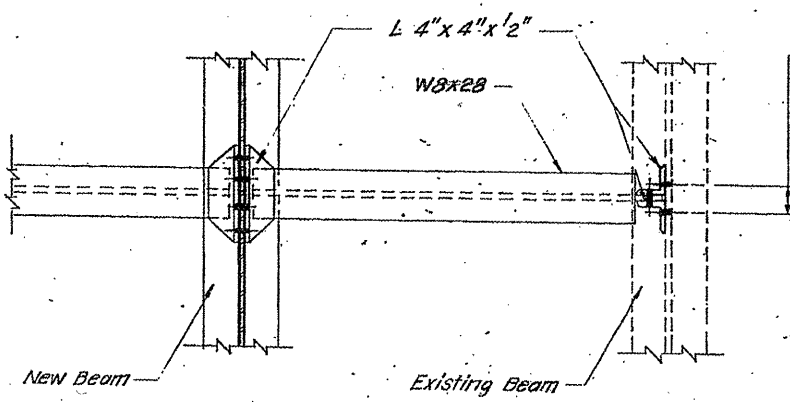
CONTRACT NO. 60K48



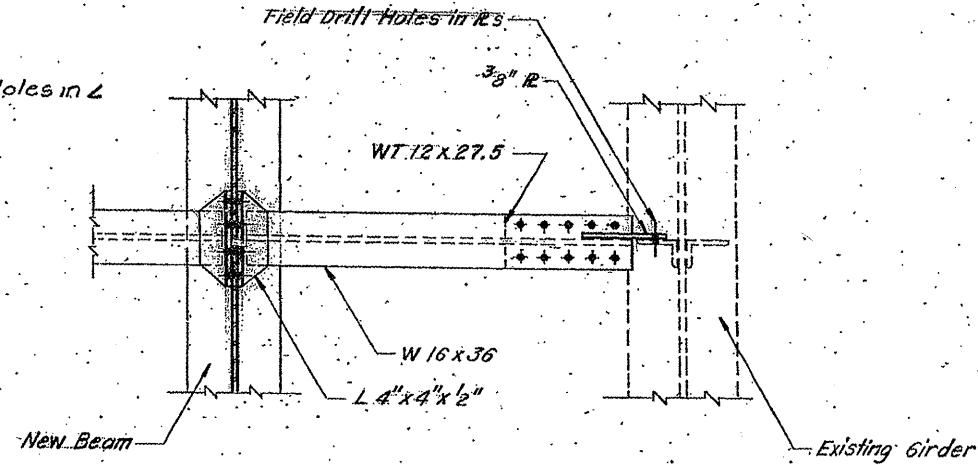
DIAPHRAGM D5
No. Required = 8



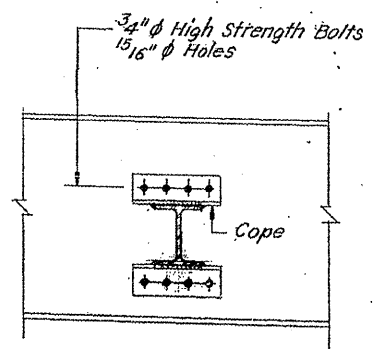
DIAPHRAGM D6
No. Required = 4



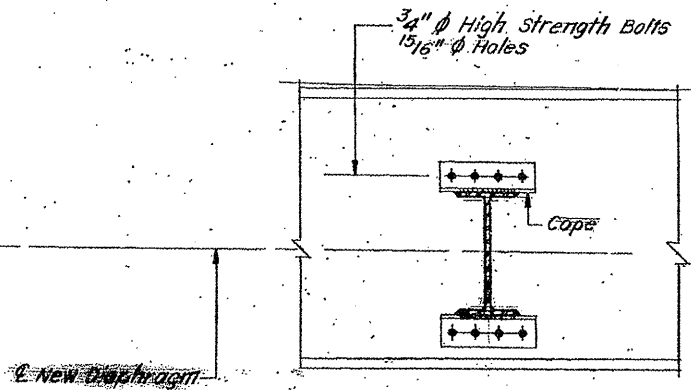
SECTION D-D



SECTION H-H



SECTION G-G



SECTION J-J

SH. 12 of 15

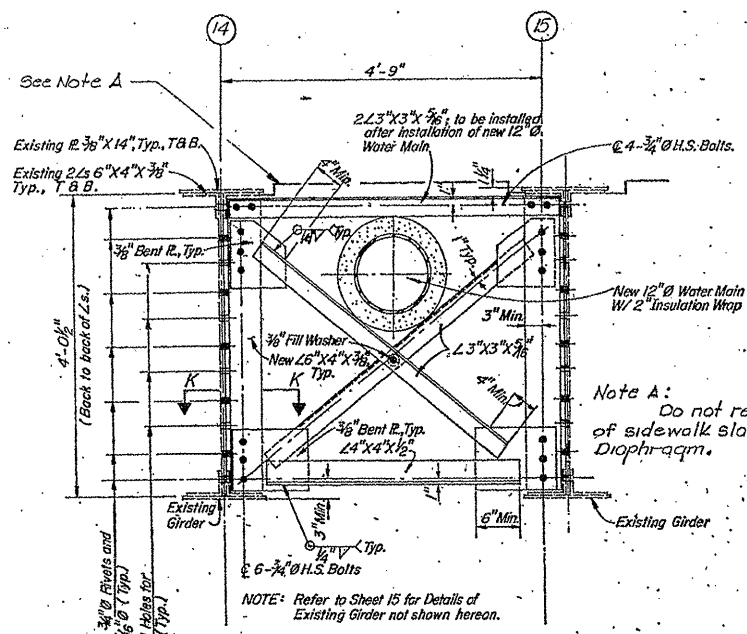
ILLINOIS DEPARTMENT OF
TRANSPORTATION

EXISTING BRIDGE PLAN

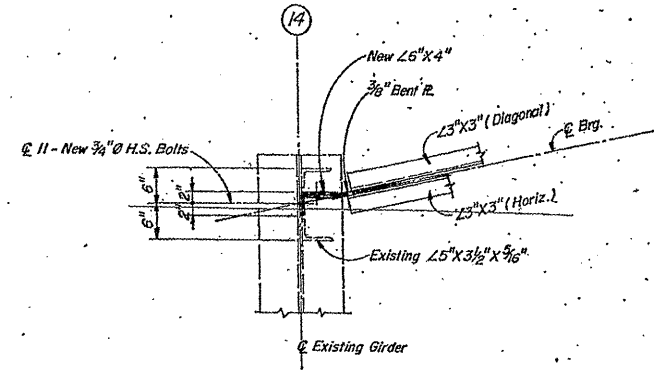
LOCATION 13: SN 016-0367
PETERSON AVE. OVER NORTH SHORE CHANNEL

ROUTE VARIOUS	SECTION 2010-023 BP	COUNTY VARIOUS	TOTAL SHEETS 93	SHEET NUMBER 74
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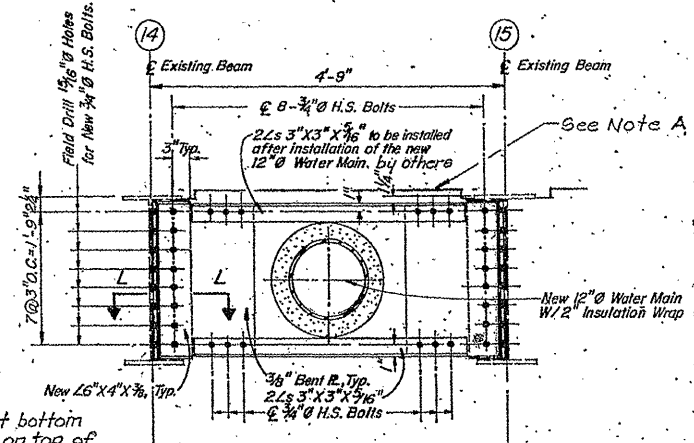
CONTRACT NO. 60K48



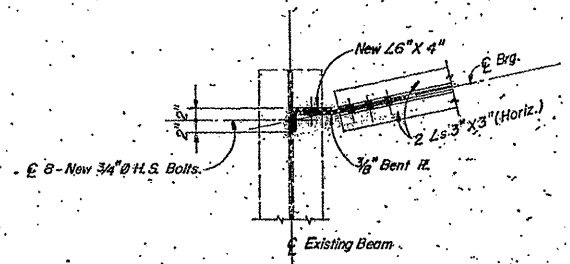
ELEVATION OF DIAPHRAGM D7
2 Required



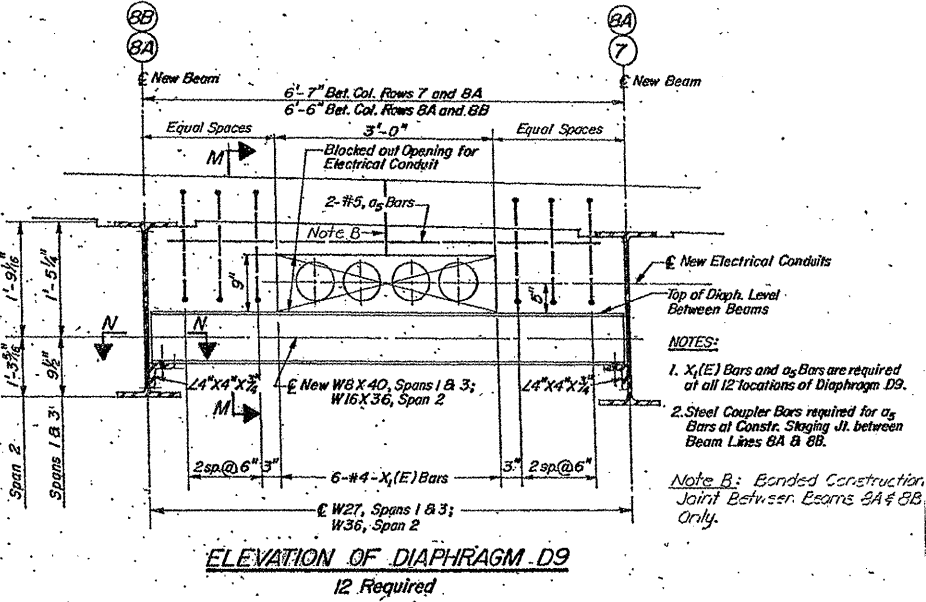
SECTION "K-K"



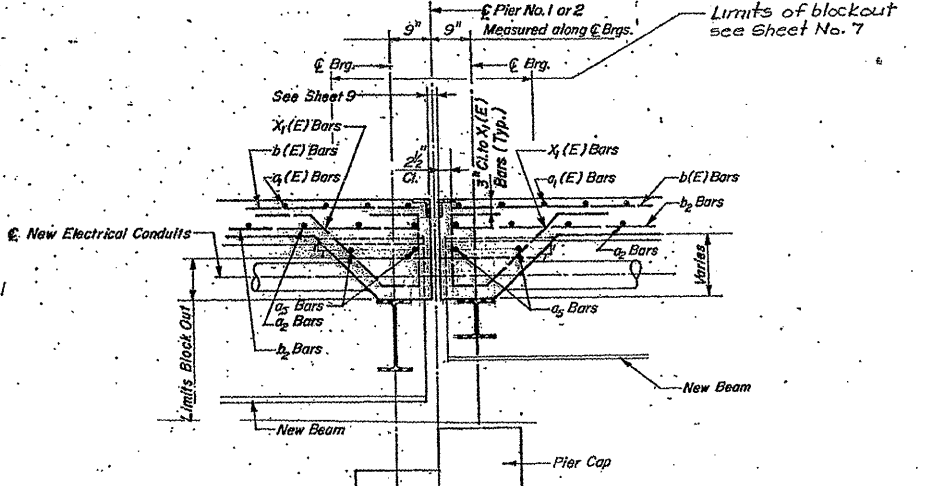
ELEVATION OF DIAPHRAGM D8
4 Required



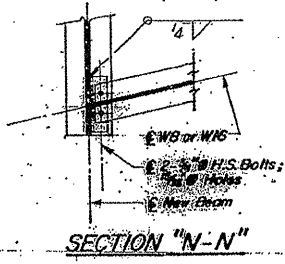
SECTION "L-L"



ELEVATION OF DIAPHRAGM D9
12 Required



SECTION "M-M"



SECTION "N-N"

ILLINOIS DEPARTMENT OF
TRANSPORTATION

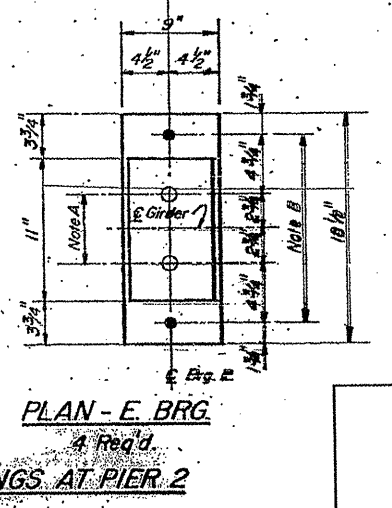
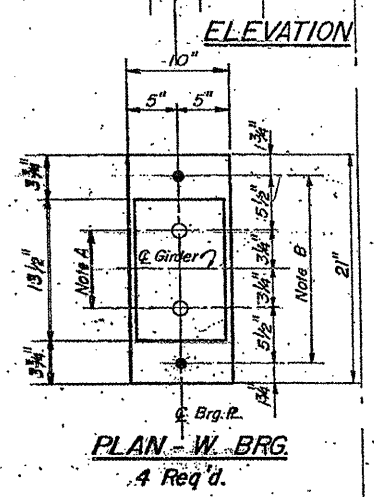
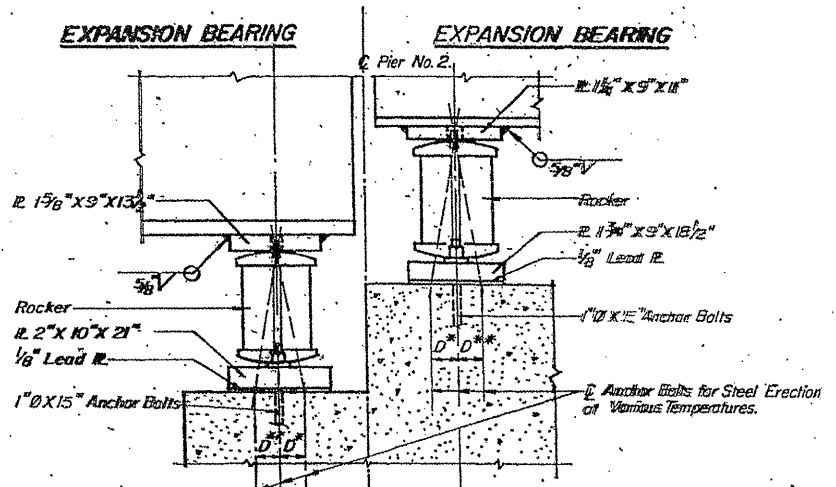
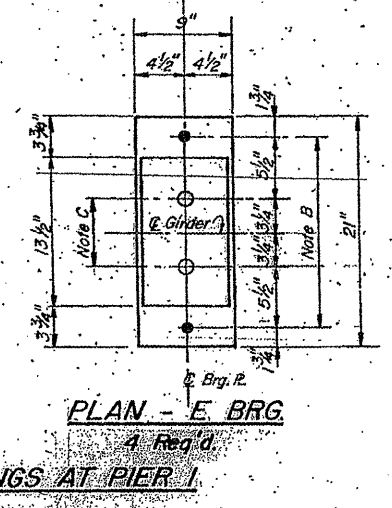
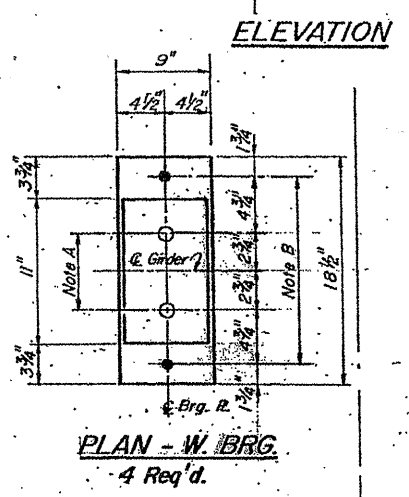
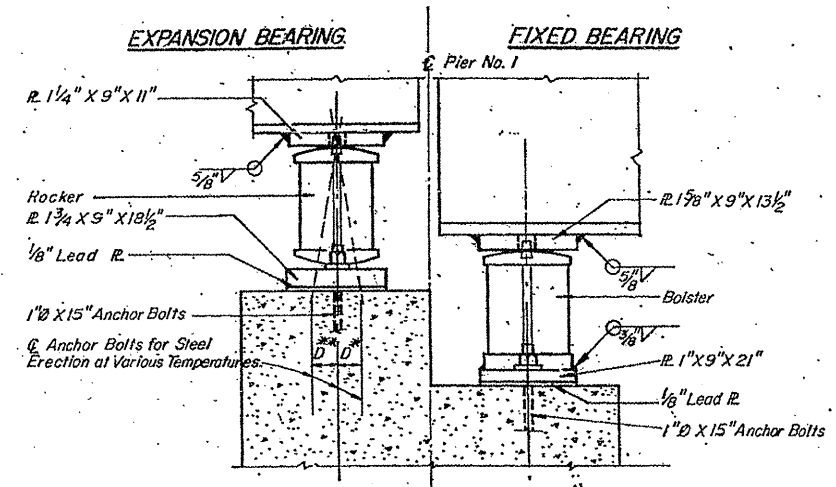
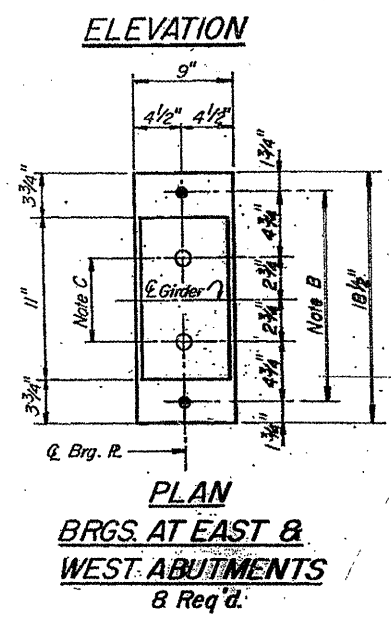
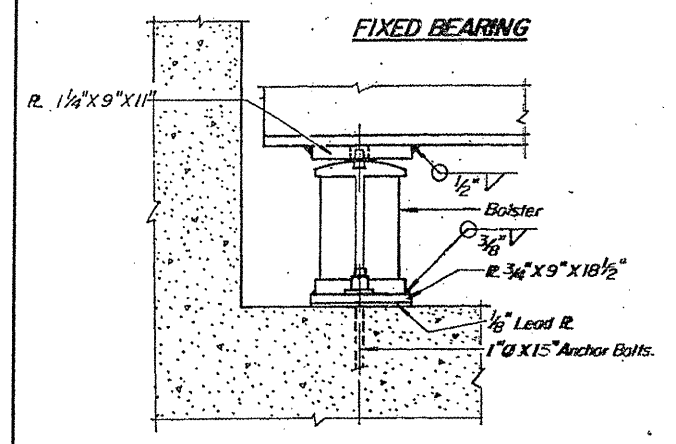
EXISTING BRIDGE PLAN

LOCATION 13: SN 016-0367
PETERSON AVE. OVER NORTH SHORE CHANNEL

SH. 13 of 15

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2010-023 BP	VARIOUS	93	75

CONTRACT NO. 60K48



NOTE A
1 3/8\"/>

NOTE B
1/2\"/>

NOTE C
1 3/8\"/>

NOTES:
1. Refer to Sheet 19 for Details of Rockers and Bolsters, Bolt Location Plan and Notes on Setting of Anchor Bolts at Expansion Bearings.
2. All Bearing Plates to be M183 Steel.

ILLINOIS DEPARTMENT OF
TRANSPORTATION

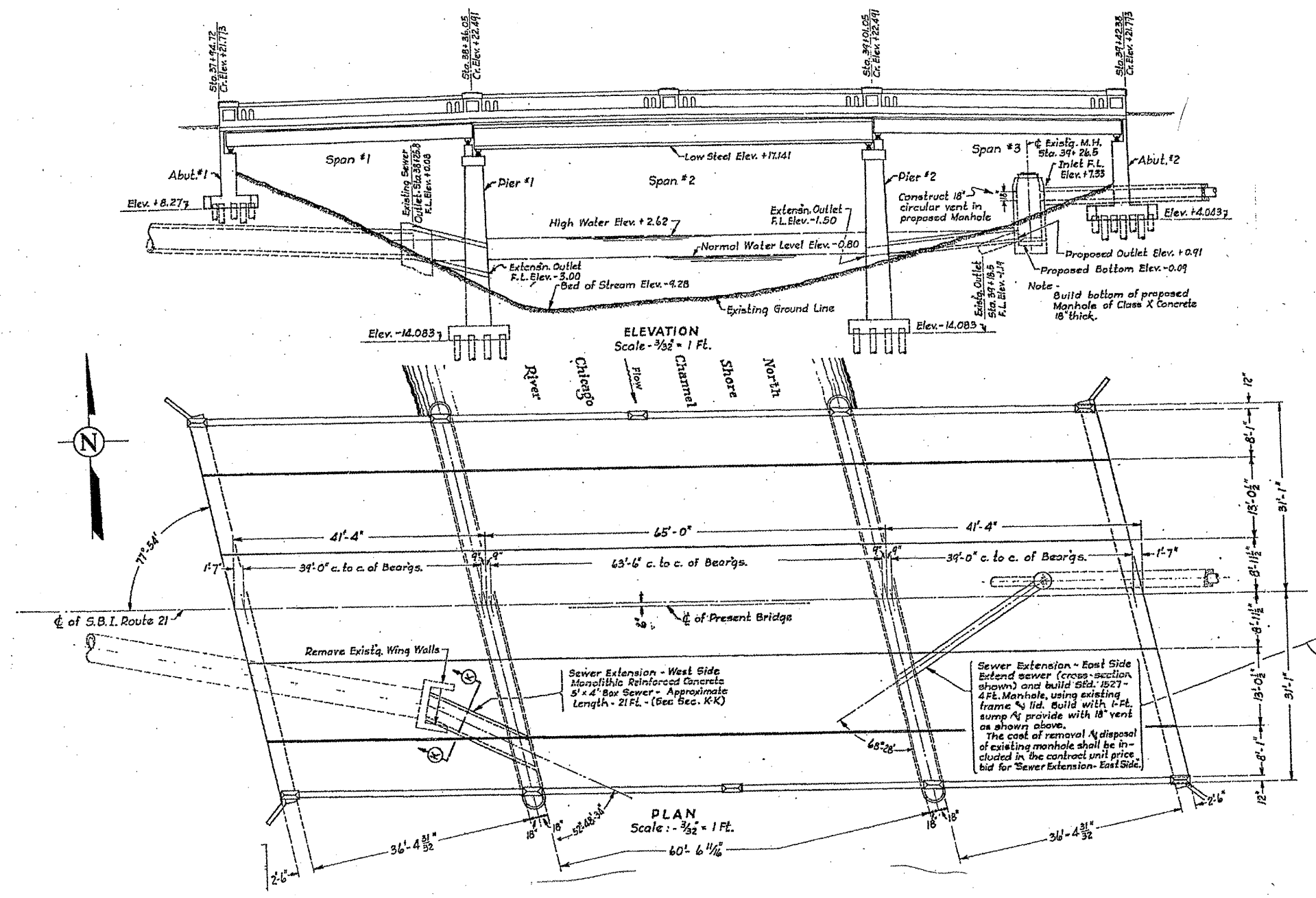
EXISTING BRIDGE PLAN

LOCATION 13: SN 016-0367
PETERSON AVE. OVER NORTH SHORE CHANNEL

SH. 14 of 15

ROUTE VARIOUS	SECTION 2010-023 BP	COUNTY VARIOUS	TOTAL SHEETS 93	SHEET NUMBER 77
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CONTRACT NO. 60K48



ILLINOIS DEPARTMENT OF
TRANSPORTATION

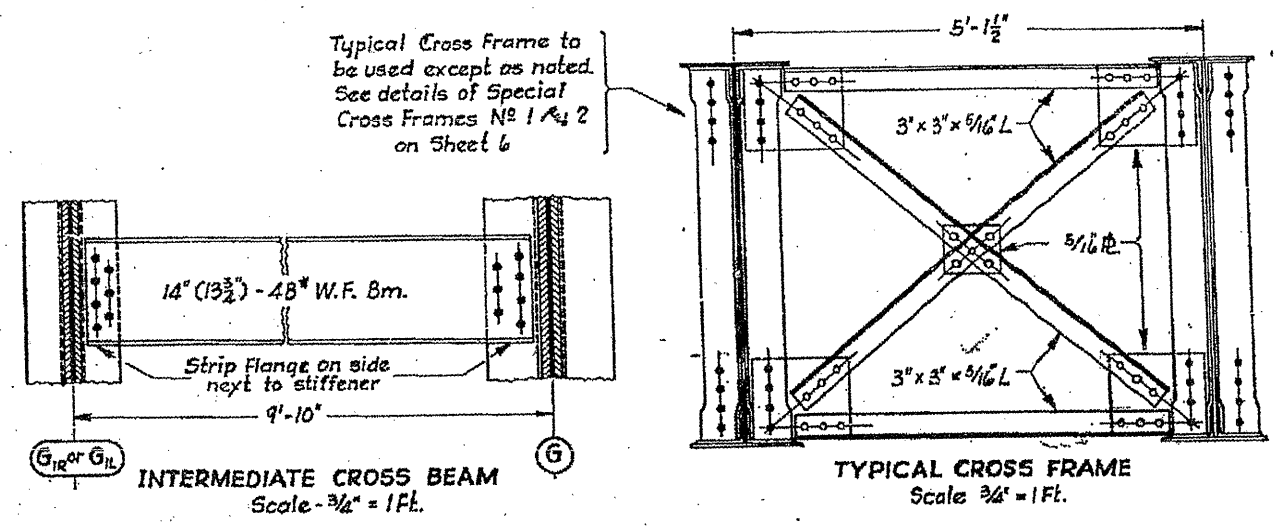
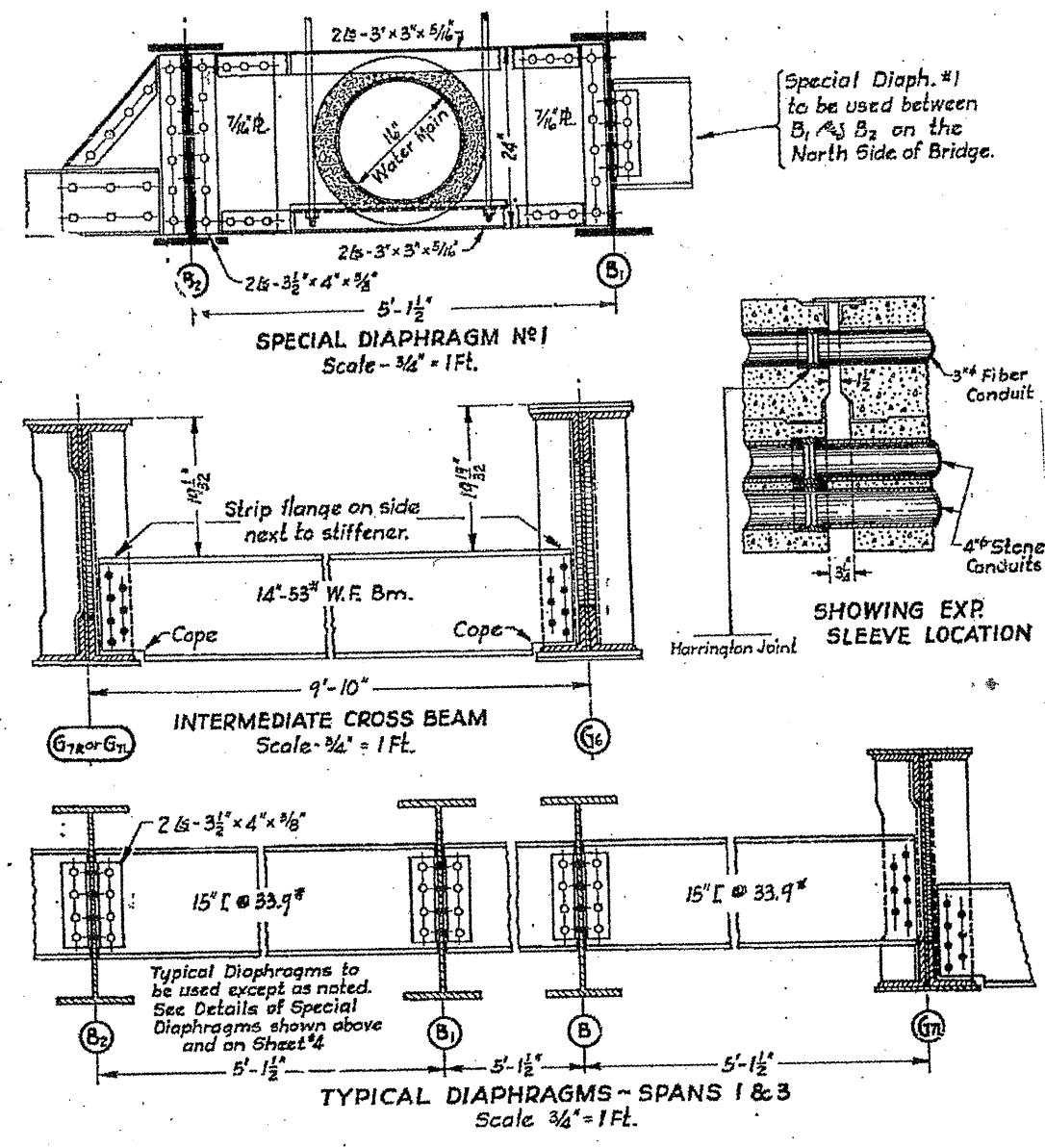
EXISTING BRIDGE PLAN

LOCATION 14: SN 016-0251
FOSTER AVE. OVER NORTH SHORE CHANNEL

SH. 106

ROUTE VARIOUS	SECTION 2010-023 BP	COUNTY VARIOUS	TOTAL SHEETS 93	SHEET NUMBER 78
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CONTRACT NO. 60K48



ILLINOIS DEPARTMENT OF
TRANSPORTATION

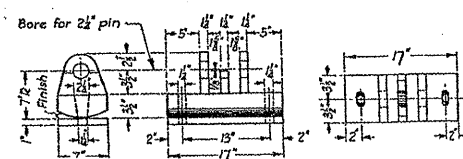
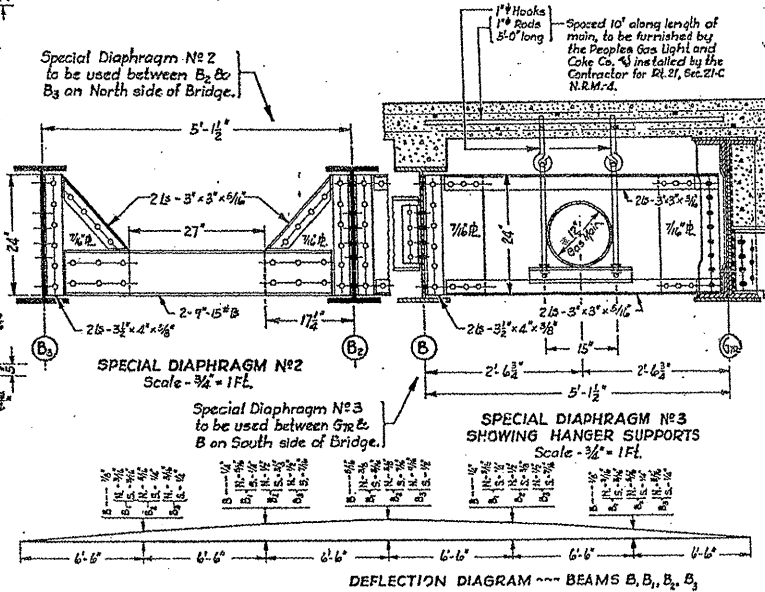
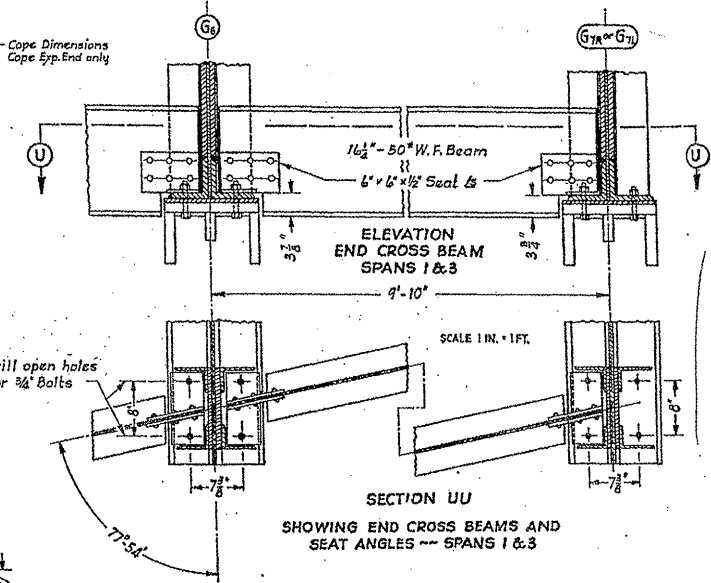
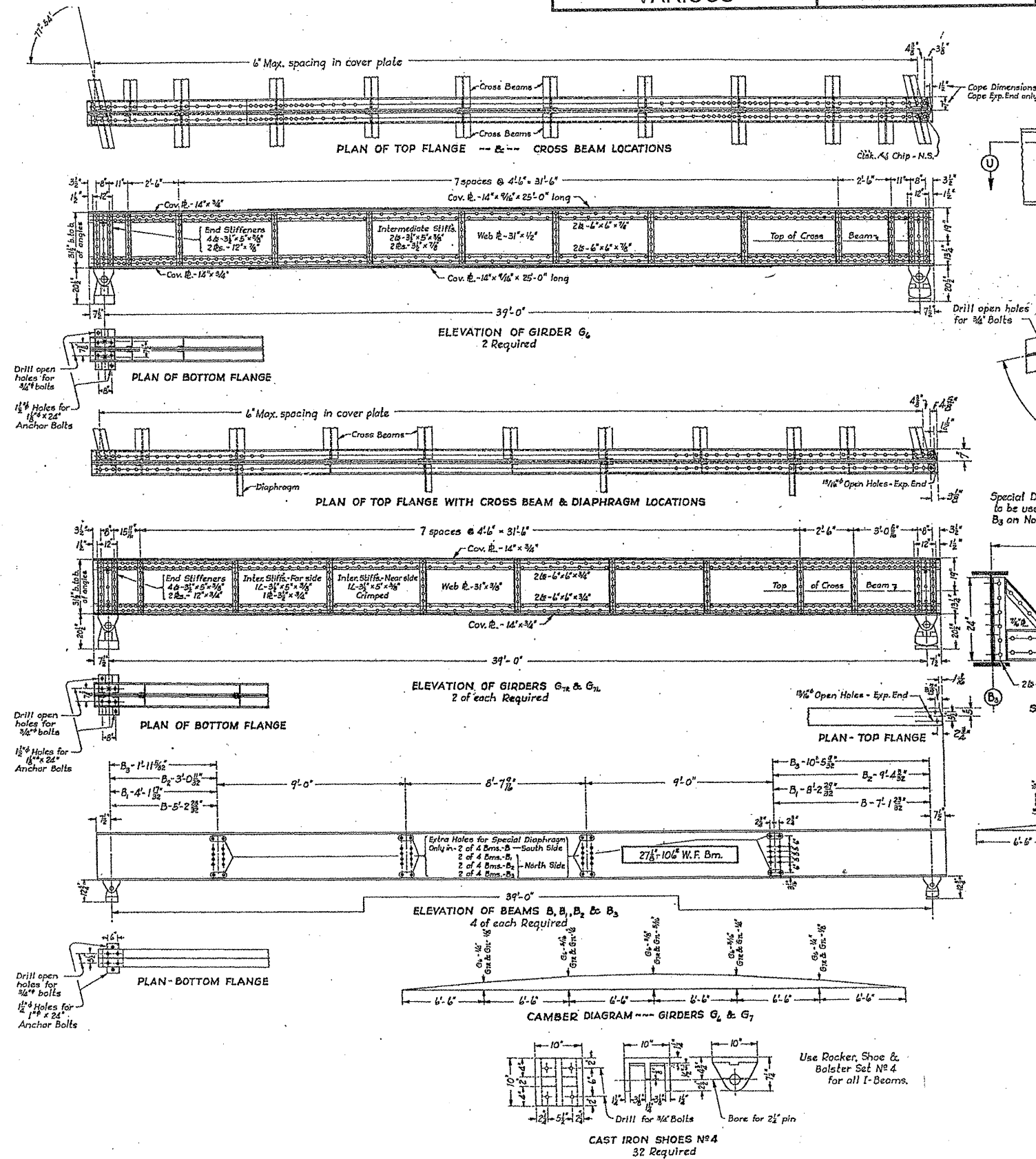
EXISTING BRIDGE PLAN

LOCATION 14: SN 016-0251
FOSTER AVE. OVER NORTH SHORE CHANNEL

SH. 2 of 6

ROUTE VARIOUS	SECTION 2010-023 BP	COUNTY VARIOUS	TOTAL SHEETS 93	SHEET NUMBER 79
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CONTRACT NO. 60K48

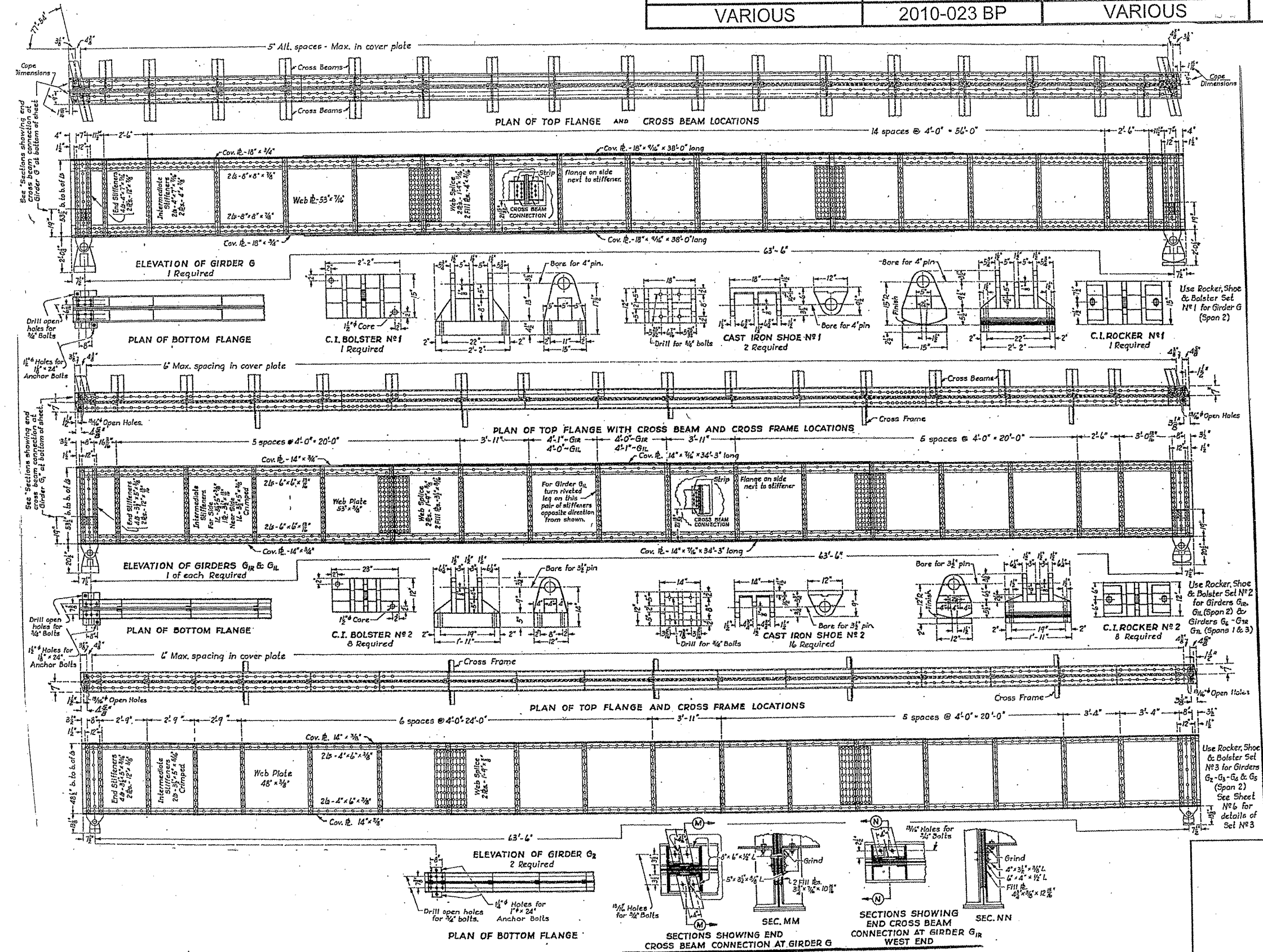


ILLINOIS DEPARTMENT OF
TRANSPORTATION
EXISTING BRIDGE PLAN
LOCATION 14: SN 016-0251
FOSTER AVE. OVER NORTH SHORE CHANNEL

SH. 3 of 6

ROUTE VARIOUS	SECTION 2010-023 BP	COUNTY VARIOUS	TOTAL SHEETS 93	SHEET NUMBER 80
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CONTRACT NO. 60K48

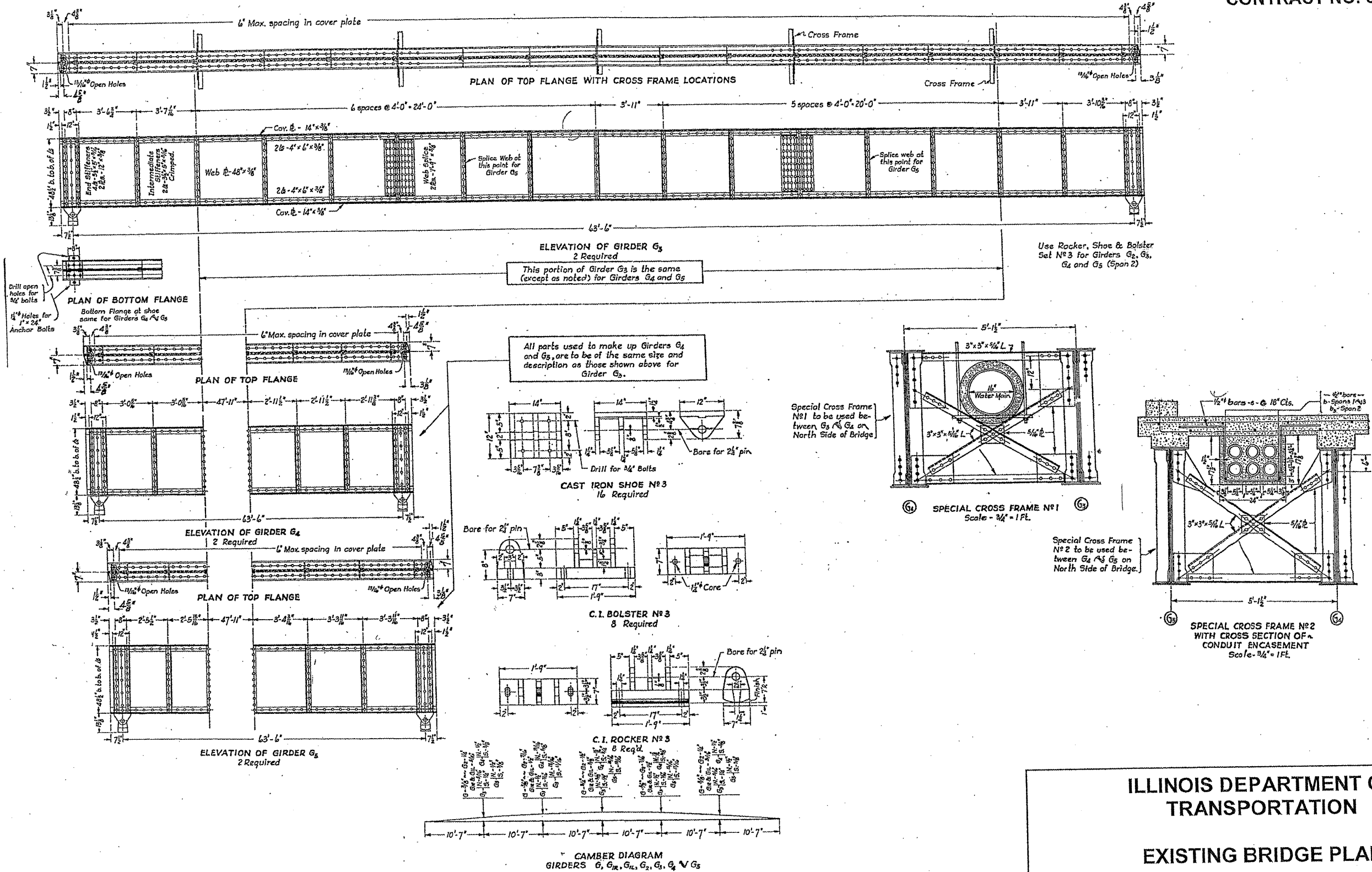


ILLINOIS DEPARTMENT OF
TRANSPORTATION
EXISTING BRIDGE PLAN
LOCATION 14: SN 016-0251
FOSTER AVE. OVER NORTH SHORE CHANNEL

SH. 4 of 6

ROUTE VARIOUS	SECTION 2010-023 BP	COUNTY VARIOUS	TOTAL SHEETS 93	SHEET NUMBER 81
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CONTRACT NO. 60K48



ILLINOIS DEPARTMENT OF
TRANSPORTATION

EXISTING BRIDGE PLAN

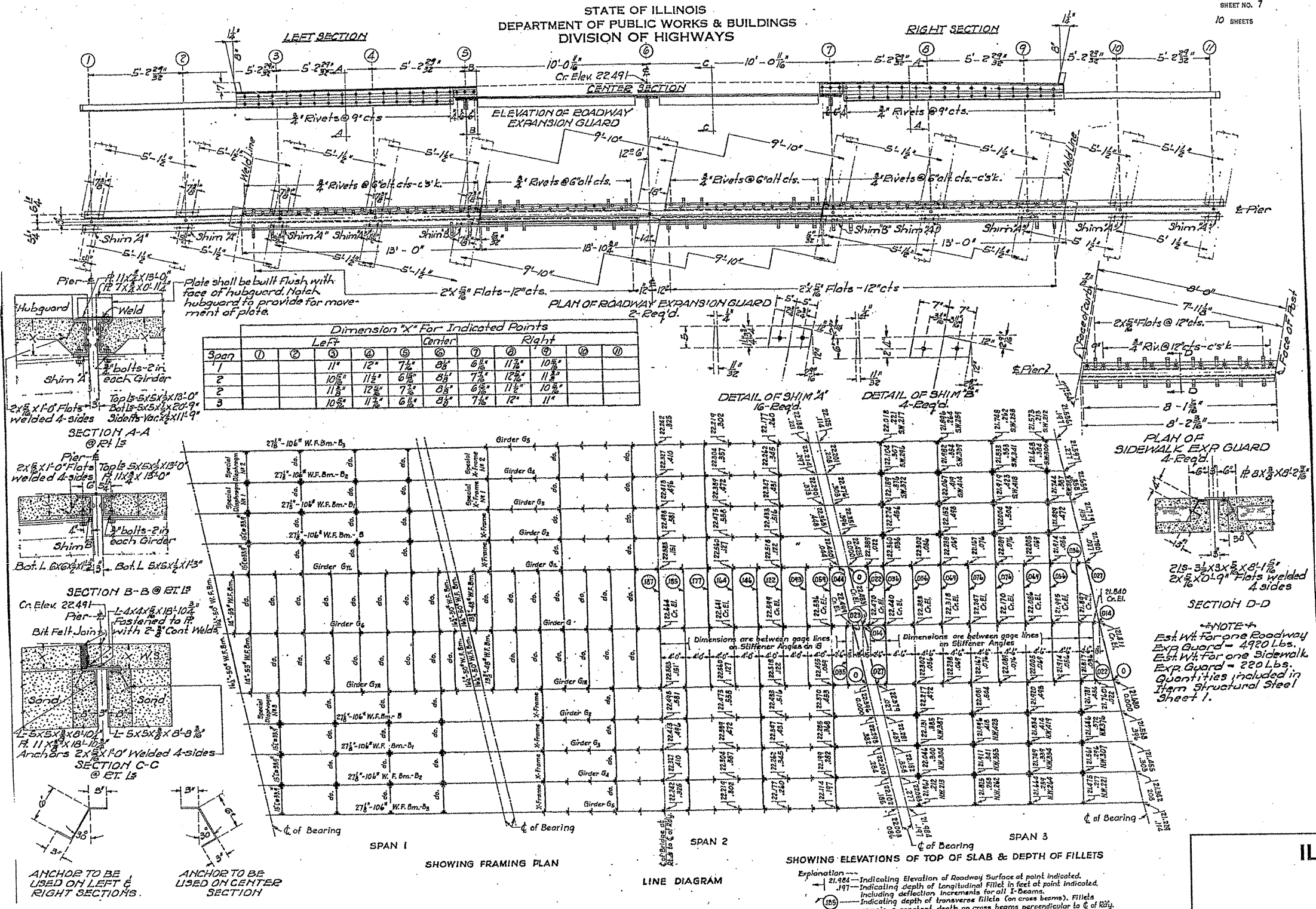
LOCATION 14: SN 016-0251
FOSTER AVE. OVER NORTH SHORE CHANNEL

SH. 5 of 6

ROUTE VARIOUS	SECTION 2010-023 BP	COUNTY VARIOUS	TOTAL SHEETS 93	SHEET NUMBER 82
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CONTRACT NO. 60K48

SHEET NO. 7
10 SHEETS



ILLINOIS DEPARTMENT OF
TRANSPORTATION

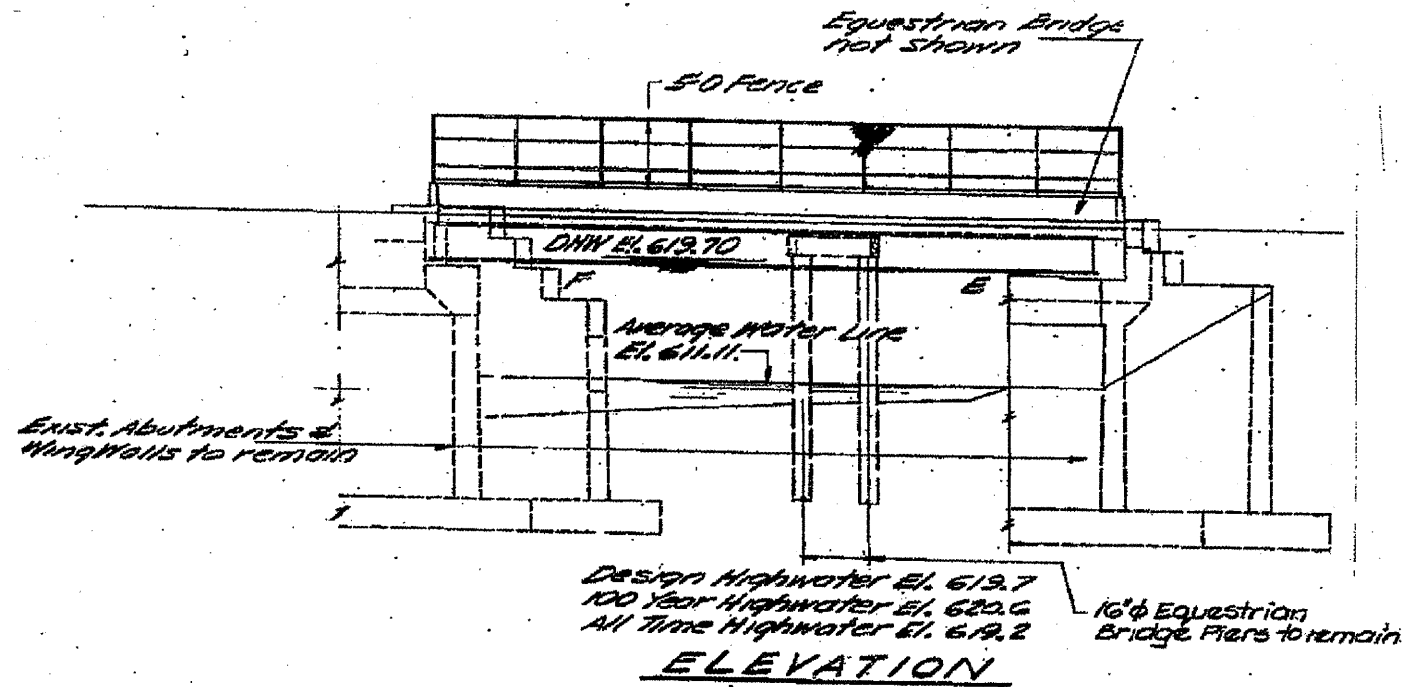
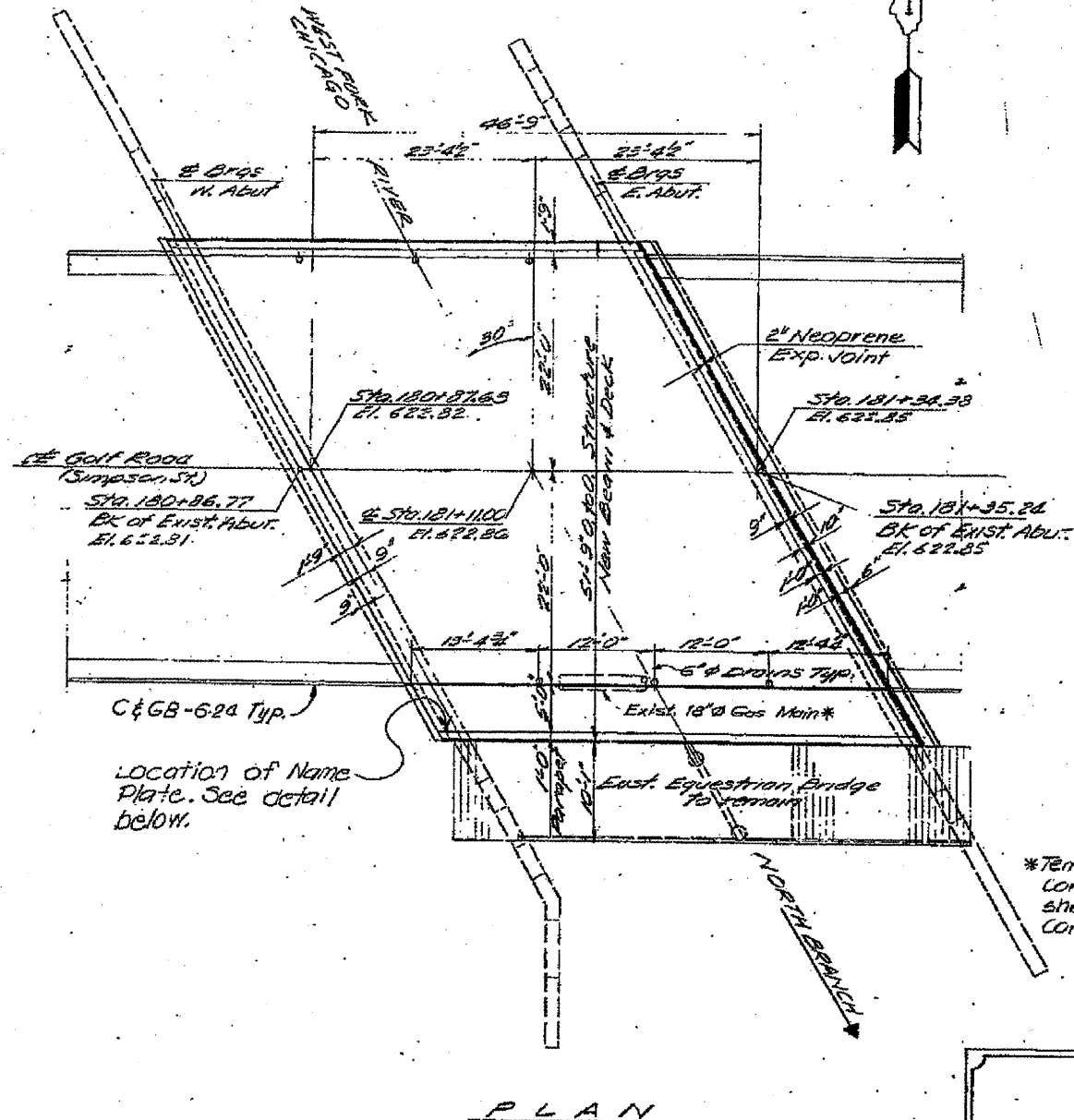
EXISTING BRIDGE PLAN

LOCATION 14: SN 016-0251
FOSTER AVE. OVER NORTH SHORE CHANNEL

SH. 6 of 6

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2010-023 BP	VARIOUS	93	83

CONTRACT NO. 60K48



*Temporary Support during Construction & Cast-in-Place Sleeve shall be provided by the Utility Company.

STATION 181+11.00
 BUILT 198 BY
 STATE OF ILLINOIS
 F&P ROUTE 557 SECTION 1977-119-W&RS
 FA PROJECT II-557()
 LOADING HS 20
 STRUCTURE NO. 016-0355

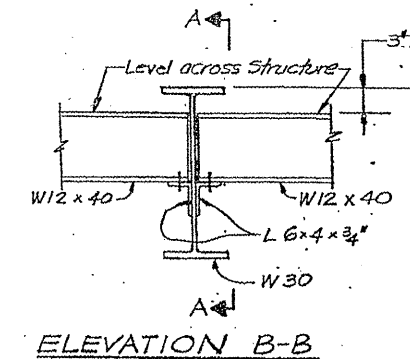
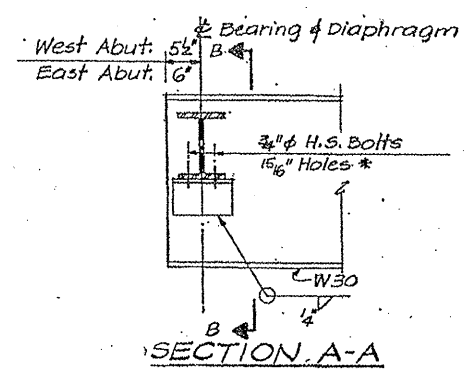
NAME PLATE
 (SEE STD. 2113)

ILLINOIS DEPARTMENT OF
 TRANSPORTATION
 EXISTING BRIDGE PLAN
 LOCATION 15: SN 016-0355
 GOLF RD. OVER W. FORK N. Br. CHICAGO RIVER

SH. 1 of 2

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2010-023 BP	VARIOUS	93	84

CONTRACT NO. 60K48

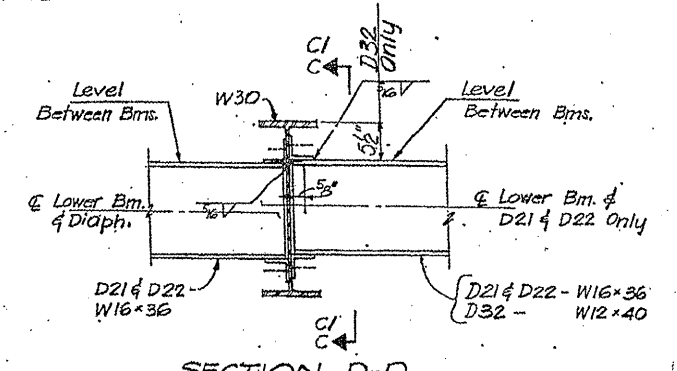
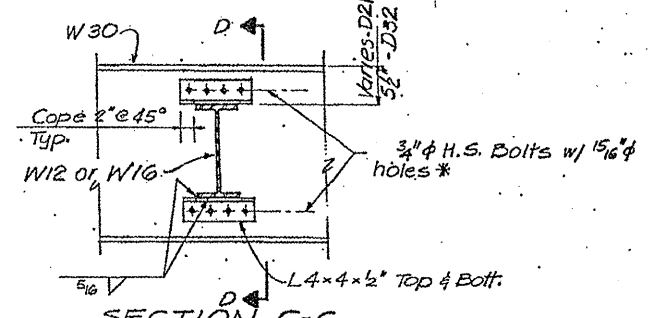


**** TOP BEAM ELEVATIONS**

BEAM	B1	B2	B3	B4	B5	B6	B7	B8
W. Abut.	621.78	621.90	622.02	622.14	622.05	621.96	621.87	621.78
E. Abut.	621.86	621.96	622.07	622.17	622.07	621.97	621.86	621.76

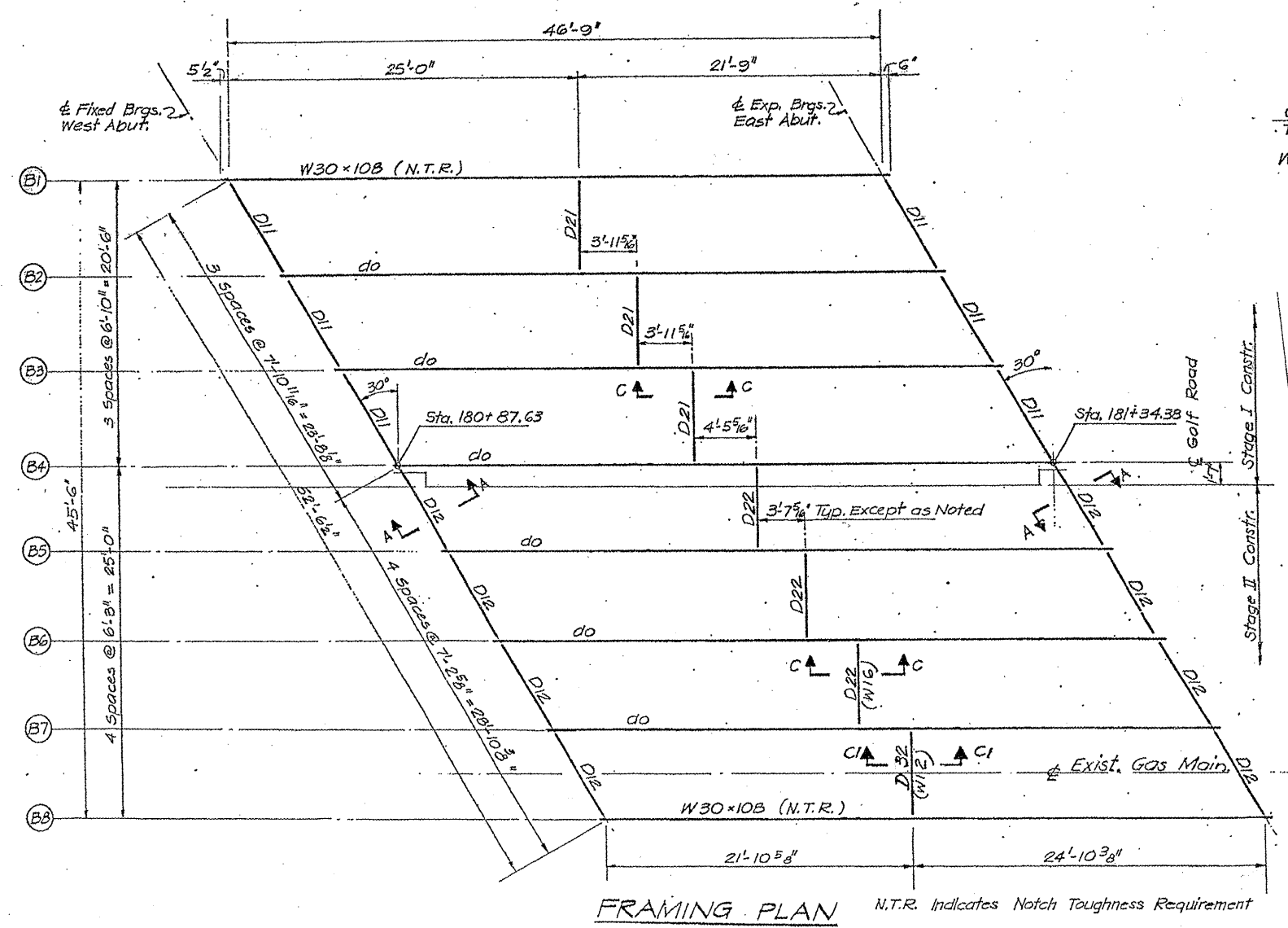
** For Fabrication Only
* Hardened washers shall be required over all 1/16" holes.

DIAPHRAGMS D11 & D12
(D11-Stage I; D12-Stage II)



DIAPHRAGMS D21, D22 & D32 D21-Stage I; D22 & D32-Stage II

Note: The diaphragm D22 connections between beams B4 & B5 shall be tightened snug before Stage II deck is poured. After the slab has set the H.S. bolts shall be tightened to Specification.



FRAMING PLAN N.T.R. Indicates Notch Toughness Requirement

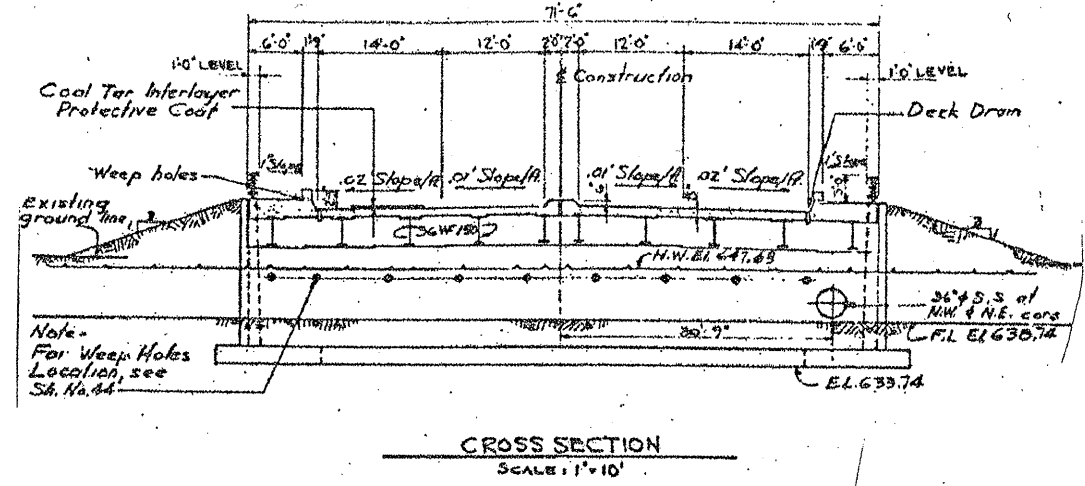
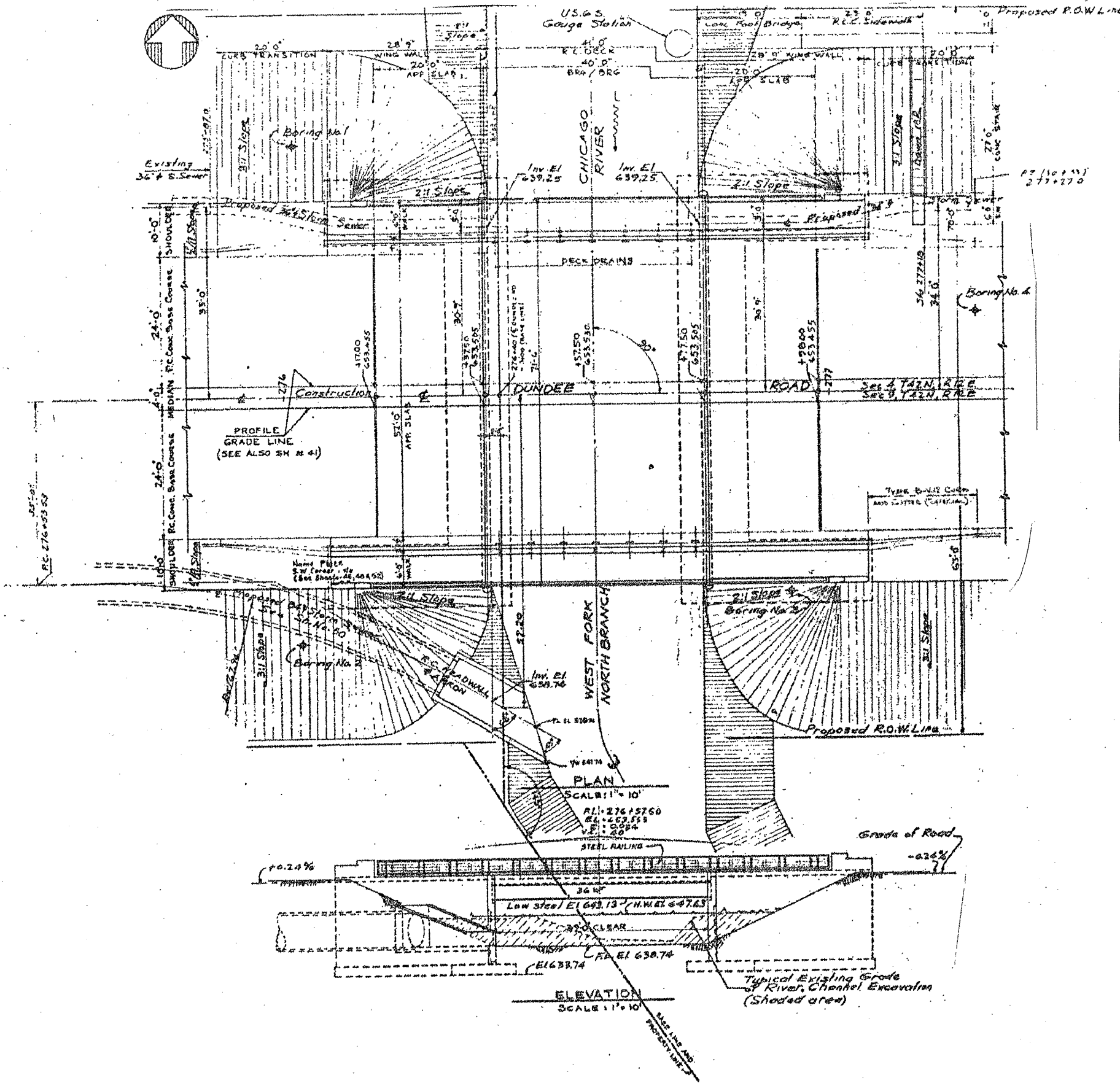
ILLINOIS DEPARTMENT OF
TRANSPORTATION

EXISTING BRIDGE PLAN

LOCATION 15: SN 016-0355
GOLF RD. OVER W. FORK N. Br. CHICAGO RIVER

ROUTE VARIOUS	SECTION 2010-023 BP	COUNTY VARIOUS	TOTAL SHEETS 93	SHEET NUMBER 85
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CONTRACT NO. 60K48



CROSS SECTION
SCALE: 1" = 10'

ILLINOIS DEPARTMENT OF
TRANSPORTATION

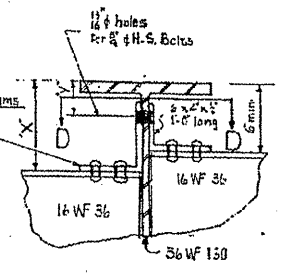
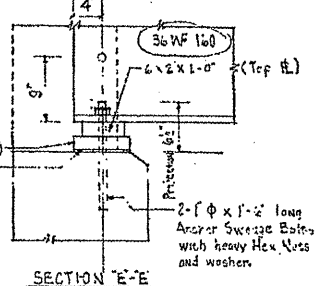
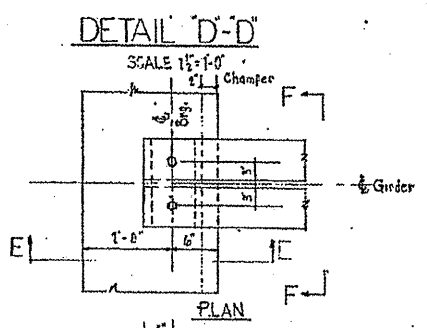
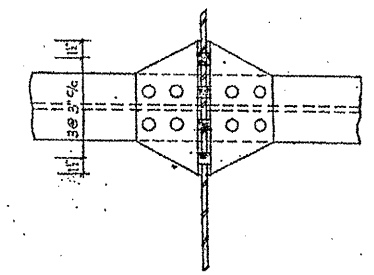
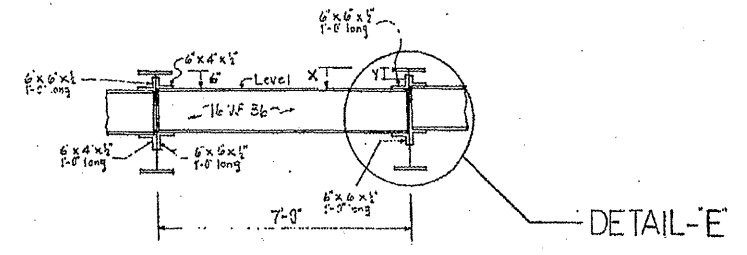
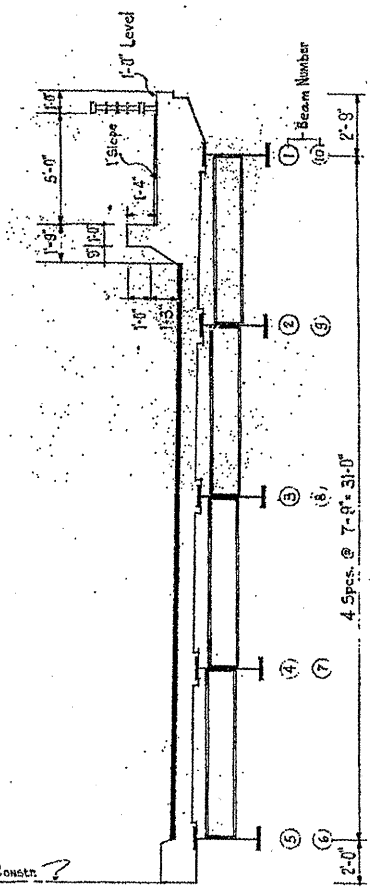
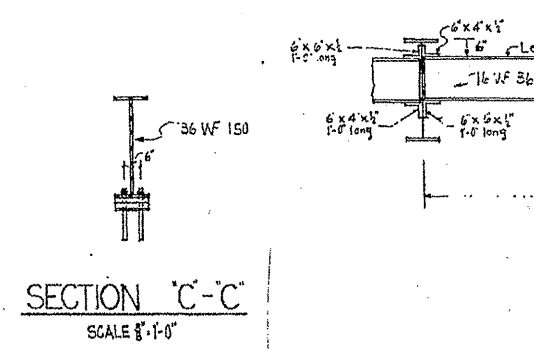
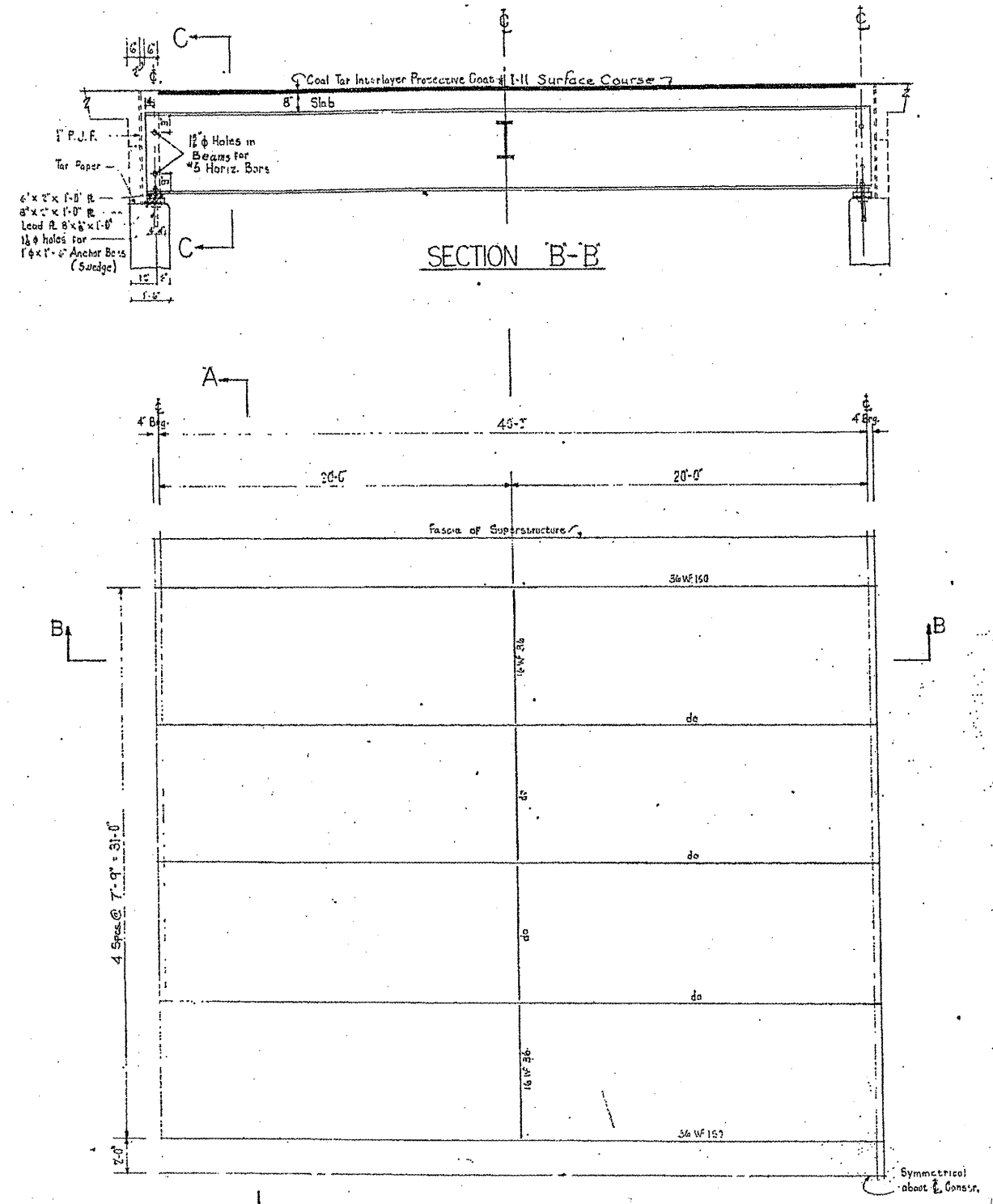
EXISTING BRIDGE PLAN

LOCATION 16: SN 016-0528
IL 68 (DUNDEE RD.) OVER W. FORK N. BR. CHICAGO
RIVER

SH. 1 of 2

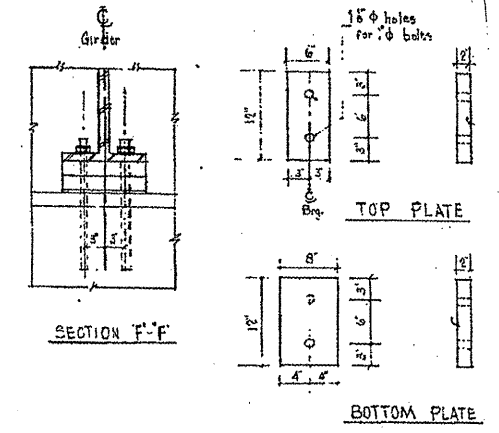
ROUTE VARIOUS	SECTION 2010-023 BP	COUNTY VARIOUS	TOTAL SHEETS 93	SHEET NUMBER 86
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CONTRACT NO. 60K48



DETAIL E
SCALE 1/2" = 1'-0"

Note: All Shop Rivets Shall be 3/4"



Note: Estimated weights of plates, lead plates, shim plates and anchor bolts is 2850 lbs.

Note: Diaphragms are Stepped up across the Roadway so that dimensions X and Y are identical for all Beams except Beam 4, 5, 6 and 7. For Structural Steel Notes, See Sheet No.

SCHEDULE FOR SHIM PLATES			
Location	Beams	No.	SIZE
Abutment	5, 6	4	1'-0" x 8" x 1/2"

FRAMING PLAN
SCALE 1/4" = 1'-0"

ILLINOIS DEPARTMENT OF
TRANSPORTATION

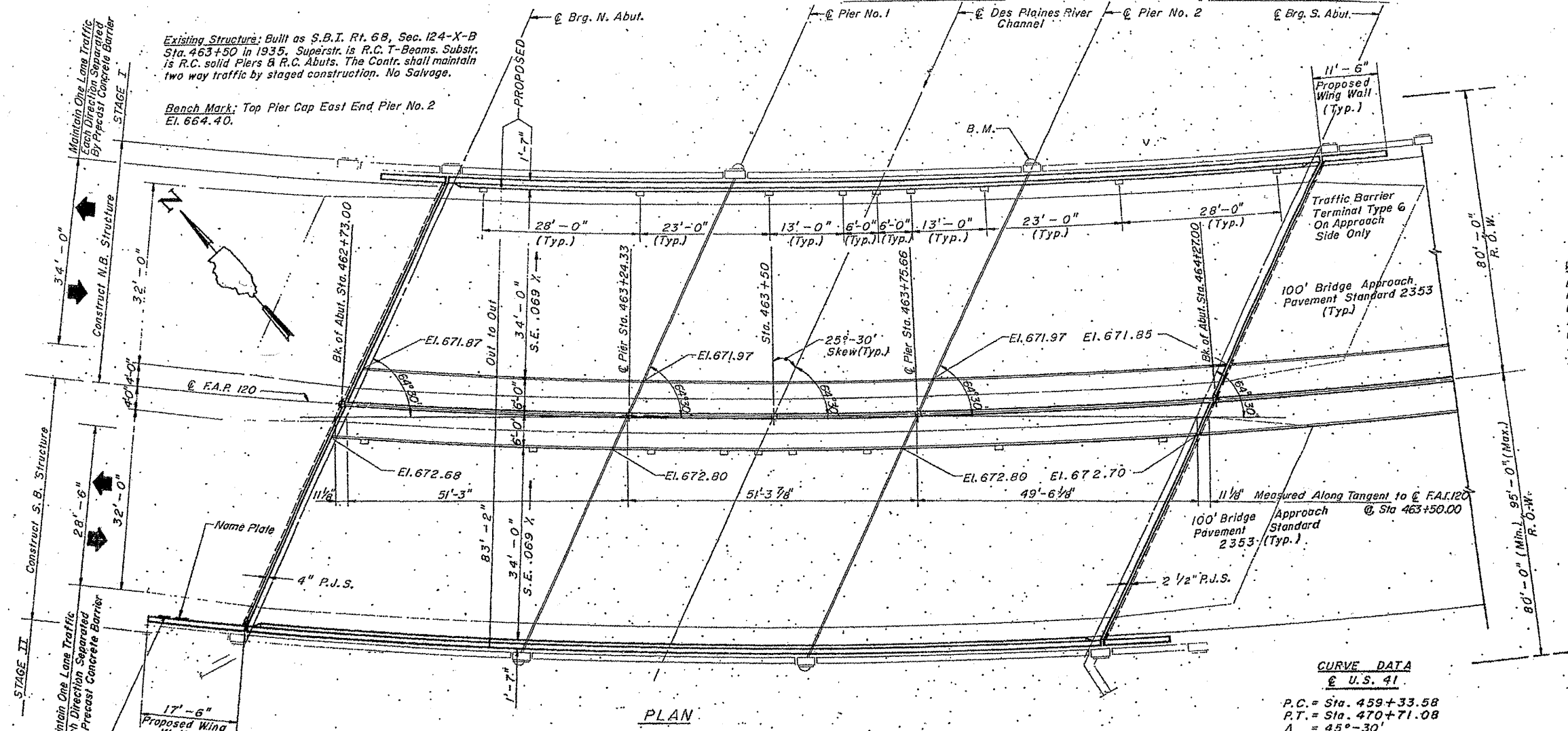
EXISTING BRIDGE PLAN

LOCATION 16: SN 016-0528
IL 68 (DUNDEE RD.) OVER W. FORK N. Br. CHICAGO
RIVER

SH. 2 of 2

ROUTE VARIOUS	SECTION 2010-023 BP	COUNTY VARIOUS	TOTAL SHEETS 93	SHEET NUMBER 87
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CONTRACT NO. 60K48

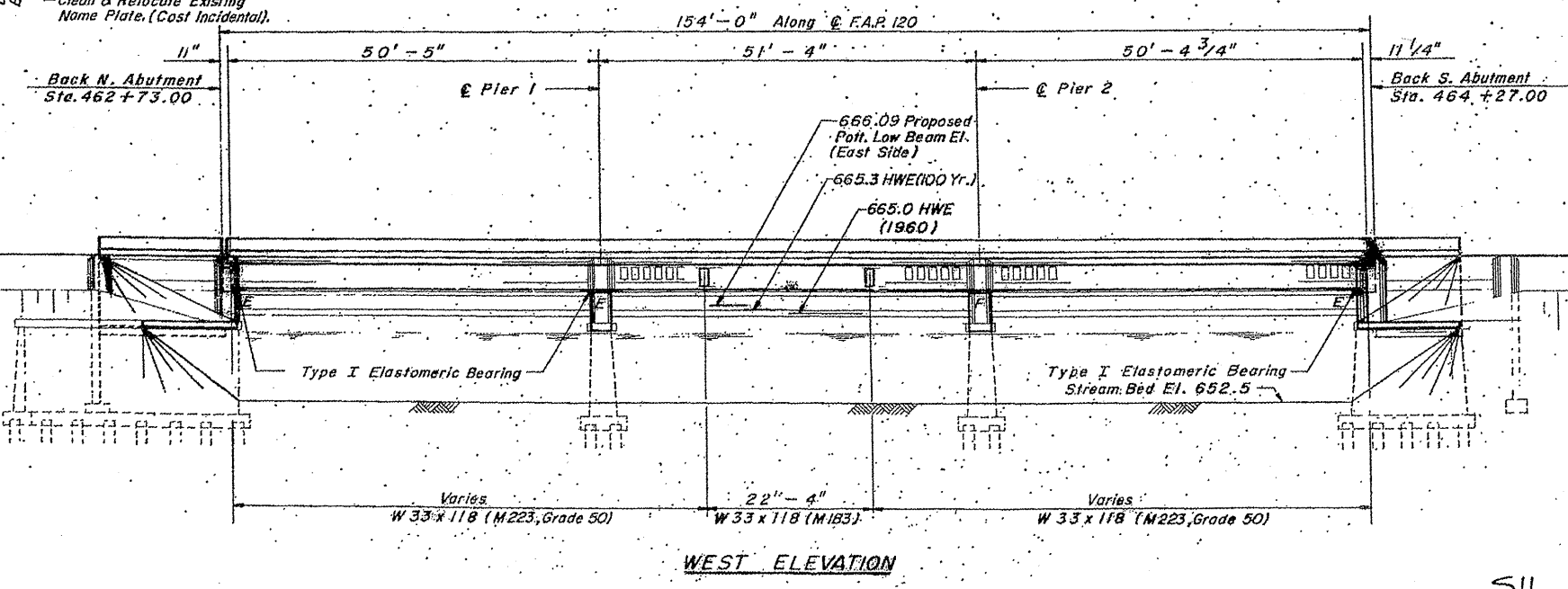


WATERWAY INFORMATION:

Drainage Area	225 SQ. Miles
Existing Opening (Below Low Beam El. 664.6)	1559 SQ. Ft.
Proposed Opening (Below 100 Yr. H.W.E.)	1650 SQ. Ft.
100-Year Discharge	4200 CFS
Flood of Record - Discharge Date	Unknown 1960
Required Opening (100Yr. H.W.E.)	1650 SQ. Ft.
Created Head	Negligible

CURVE DATA
@ U.S. 41

P.C.	= Sta. 459+33.58
P.T.	= Sta. 470+71.08
A	= 45°-30'
D	= 4°-00'
T	= 600.65'
L	= 1137.50'
R	= 1432.39'



ILLINOIS DEPARTMENT OF
TRANSPORTATION

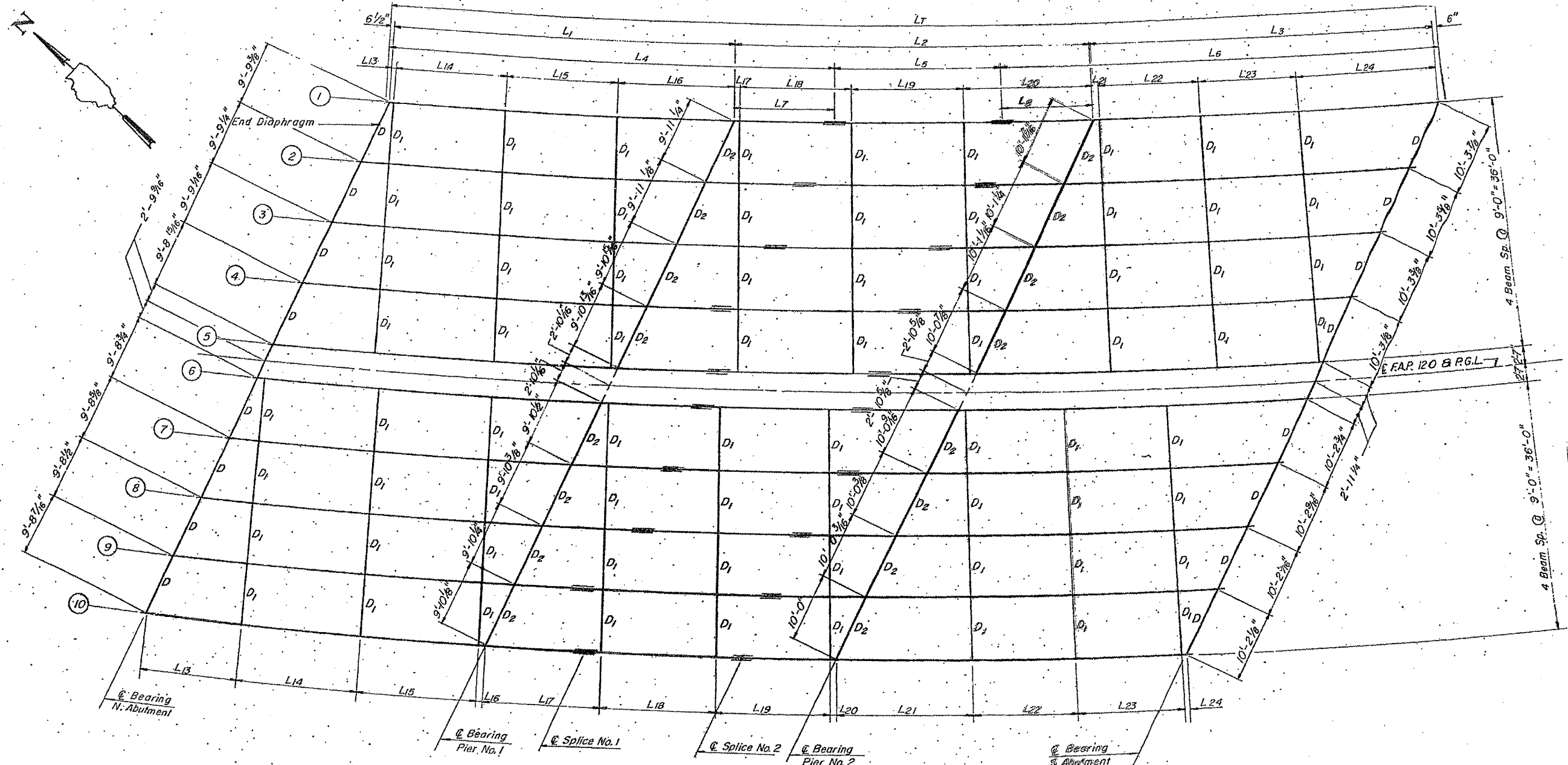
EXISTING BRIDGE PLAN

LOCATION 17: SN 049-0029
US 41 (SKOKIE HWY.) OVER DES PLAINES RIVER

SH. 10F5

ROUTE VARIOUS	SECTION 2010-023 BP	COUNTY VARIOUS	TOTAL SHEETS 93	SHEET NUMBER 88
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CONTRACT NO. 60K48



FRAMING PLAN

SEE SHEET 90 of 93 FOR "L" DIMENSIONS

ALL BEAMS W33 X 118

ILLINOIS DEPARTMENT OF
TRANSPORTATION

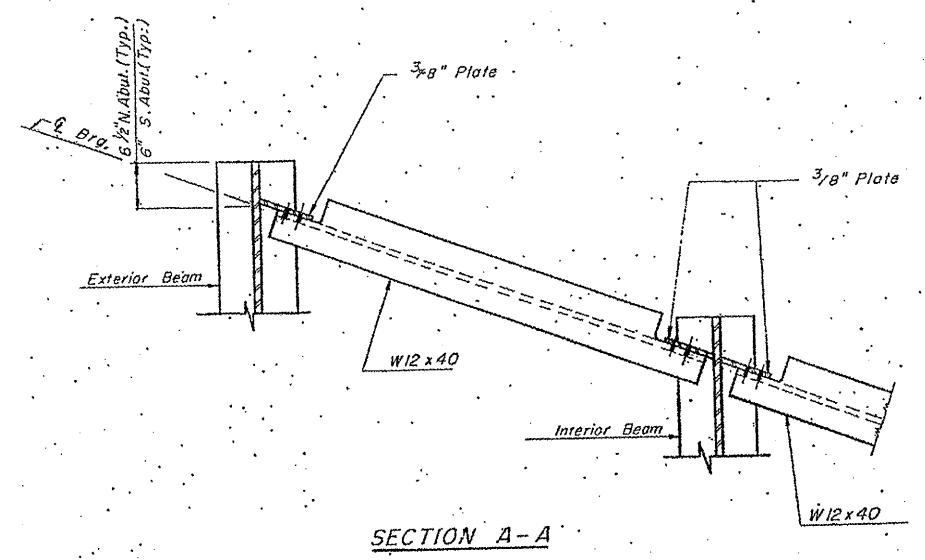
EXISTING BRIDGE PLAN

LOCATION 17: SN 049-0029
US 41 (SKOKIE HWY.) OVER DES PLAINES RIVER

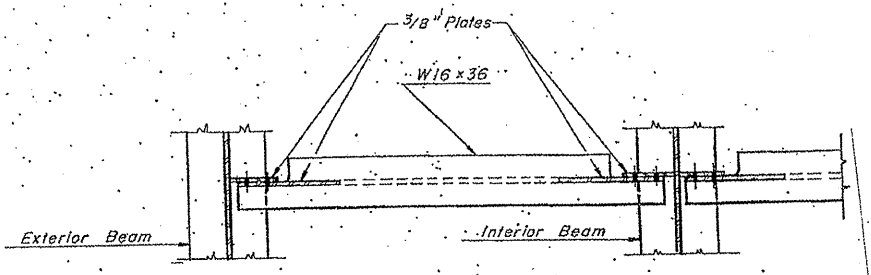
SH. 2 of 5

ROUTE VARIOUS	SECTION 2010-023 BP	COUNTY VARIOUS	TOTAL SHEETS 93	SHEET NUMBER 89
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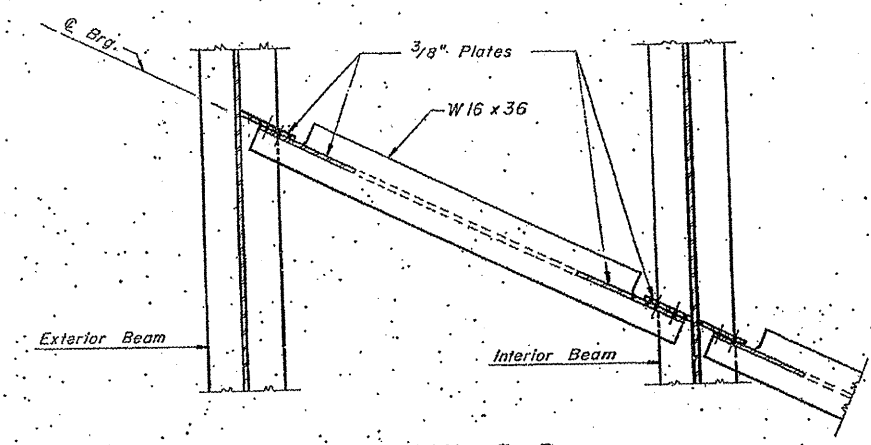
CONTRACT NO. 60K48



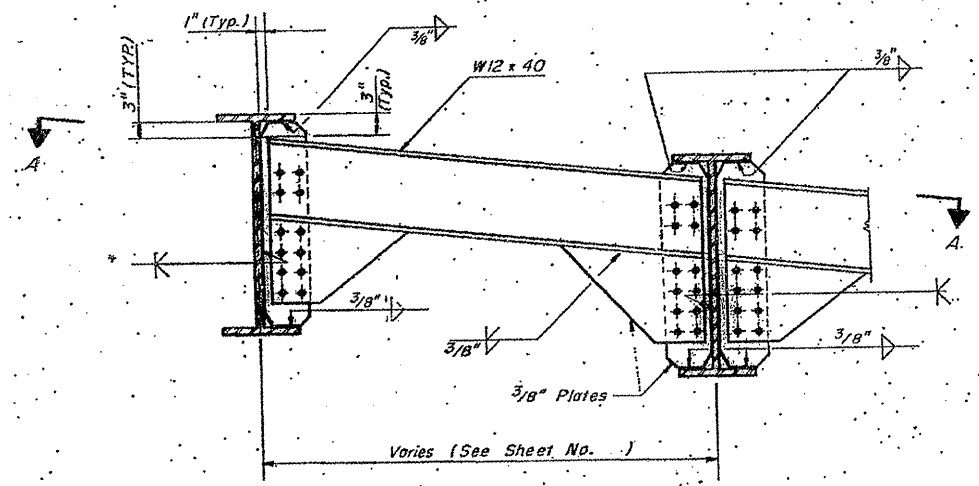
SECTION A-A



SECTION B-B
DIAPHRAGM D1
No. Required = 72

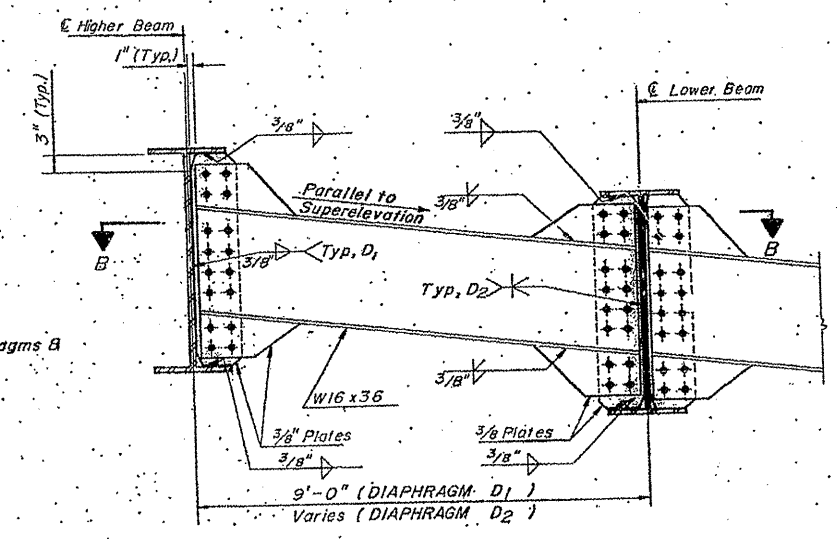


SECTION B-B
DIAPHRAGM D2
No. Required = 16



DIAPHRAGM D
No. Required = 16

Notes:
 7/8" Ø H.S. Bolts M-16 1/4 For All Diaphragm Connections.
 Diaphragm and Connection Plates shall conform to AASHTO M-183
 Provide 1/16" Ø open holes in diaphragms & diaphragm connection plates. Provide hardened washers under both nut & bolt head.
 All contact surfaces of joints for diaphragms shall be free of paint or lacquer.



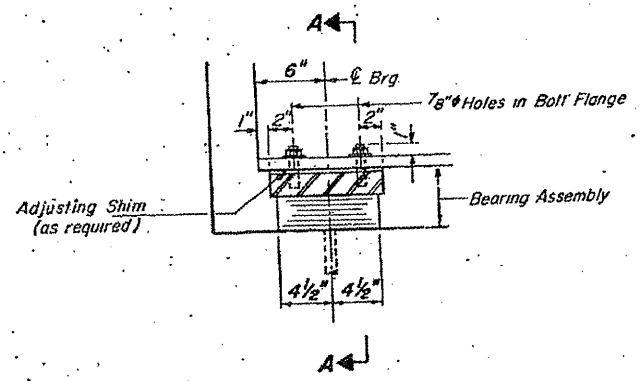
DIAPHRAGM D1 & D2

ILLINOIS DEPARTMENT OF
 TRANSPORTATION
 EXISTING BRIDGE PLAN
 LOCATION 17: SN 049-0029
 US 41 (SKOKIE HWY.) OVER DES PLAINES RIVER

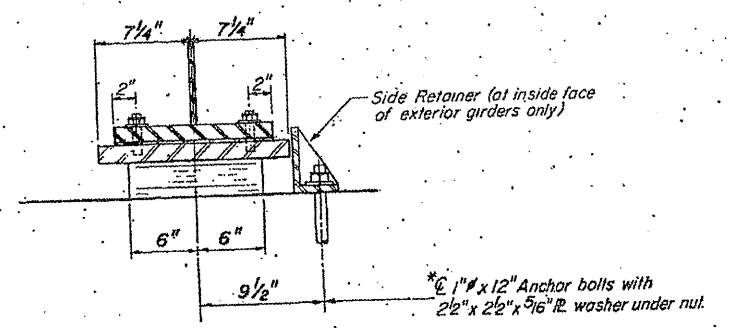
SH. 3 of 5

ROUTE VARIOUS	SECTION 2010-023 BP	COUNTY VARIOUS	TOTAL SHEETS 93	SHEET NUMBER 90
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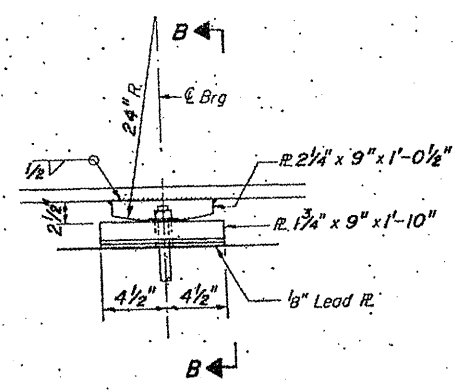
CONTRACT NO. 60K48



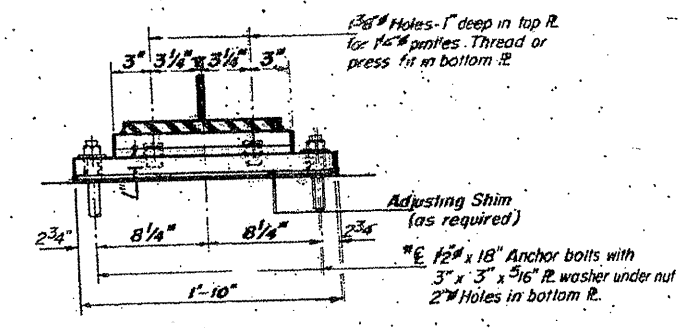
SECTION AT ABUT.



SECTION A-A



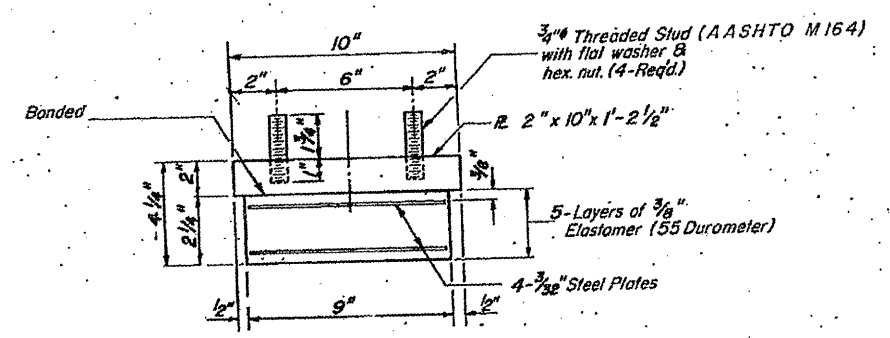
ELEVATION AT PIER



SECTION B-B.

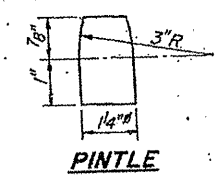
FIXED BEARING AT PIER NO. 2

TYPE I ELASTOMERIC EXP. BRG. AT SOUTH ABUTMENT



BEARING ASSEMBLY

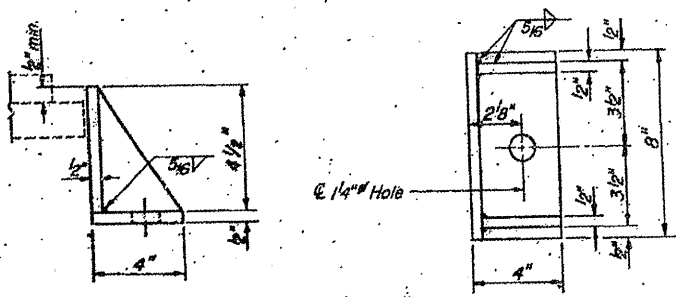
*Note: After girders have been erected holes at expansion bearings shall be drilled and anchor bolts grouted in place. Anchor bolts at fixed bearings may be built into the masonry.



PINTLE

TABLE OF "L" DIMENSIONS

Beam	1	2	3	4	5	6	7	8	9	C
Radius	1393.81'	1402.81'	1411.81'	1420.81'	1429.81'	1434.97'	1443.97'	1452.97'	1461.97'	1470.97'
L1	50'-8 3/8"	50'-7 3/8"	50'-6 3/8"	50'-6 1/8"	50'-5 3/8"	50'-4 7/8"	50'-4 1/4"	50'-3 3/8"	50'-2 7/8"	50'-2 1/4"
L2	51'-8"	51'-7 1/8"	51'-6 1/8"	51'-5 3/8"	51'-4 3/8"	51'-3 3/8"	51'-2 3/8"	51'-1 3/8"	51'-1 1/4"	51'-0 3/4"
L3	50'-9 3/8"	50'-8 3/8"	50'-7 3/8"	50'-6 3/8"	50'-5 3/8"	50'-4 3/8"	50'-3 3/8"	50'-2 3/8"	50'-1 3/8"	50'-0 3/4"
L4	64'-2 1/8"	64'-2 1/8"	64'-1 3/8"	61'-8 3/8"	63'-11 1/8"	63'-11 1/8"	63'-10 3/8"	63'-10 1/8"	60'-11 3/8"	63'-8 3/4"
L5	25'-8"	27'-1 1/8"	25'-6 1/8"	27'-9 3/8"	25'-4 3/8"	25'-3 3/4"	27'-2 3/8"	25'-2 1/8"	27'-11 1/4"	25'-0 1/8"
L6	64'-3 1/8"	62'-8 3/8"	64'-1 3/8"	64'-0 1/8"	63'-11 1/8"	63'-10 1/2"	61'-9 1/2"	63'-8 1/2"	63'-7 1/2"	63'-6 3/8"
L7	13'-0"	13'-0"	13'-0"	10'-8"	13'-0"	13'-0"	13'-0"	13'-0"	10'-2"	13'-0"
L8	13'-0"	11'-6"	13'-0"	13'-0"	13'-0"	13'-0"	11'-0"	13'-0"	13'-0"	13'-0"
L9	8'-6 3/8"	8'-5 3/8"	8'-4 7/8"	8'-4 1/8"	8'-3 3/8"	8'-2 3/8"	8'-2 1/4"	8'-1 3/8"	8'-0 7/8"	8'-0 1/4"
L10	15'-7 1/2"	15'-7 1/8"	15'-7"	15'-3 1/8"	15'-5 3/8"	15'-5 3/8"	15'-4 3/8"	15'-4 3/8"	15'-2 1/8"	15'-3 3/8"
L11	15'-7 1/2"	15'-6 1/8"	15'-6 1/8"	15'-9 1/8"	15'-5 1/8"	15'-5 3/8"	15'-5 1/8"	15'-4 1/8"	15'-6 1/8"	15'-3 3/8"
L12	8'-7 1/8"	8'-6 3/8"	8'-5 3/8"	8'-4 1/8"	8'-3 1/8"	8'-2 1/2"	8'-1 1/2"	8'-0 1/2"	7'-11 1/2"	7'-10 3/8"
L13	0'-6"	4'-4"	8'-2"	12'-0 1/8"	15'-10 1/8"	0'-6"	4'-2 1/2"	7'-11"	11'-7 1/2"	15'-4"
L14	16'-7 1/2"	16'-8 3/8"	15'-10 1/8"	16'-11 3/8"	17'-0 3/8"	16'-9 3/8"	16'-10 3/8"	16'-11 3/8"	17'-0 3/8"	17'-2 1/8"
L15	16'-7 1/2"	16'-8 3/8"	16'-10 1/8"	16'-11 3/8"	17'-0 3/8"	16'-9 3/8"	16'-10 3/8"	16'-11 3/8"	17'-0 3/8"	17'-2 1/8"
L16	16'-11 3/8"	12'-10 1/8"	8'-8 3/4"	4'-7 3/8"	0'-6"	16'-4 3/8"	12'-5"	8'-5 3/8"	4'-5 3/8"	0'-6"
L17	0'-6"	4'-8 1/8"	8'-11 1/8"	13'-2 1/8"	17'-4 1/8"	0'-6"	4'-7"	8'-7 1/8"	12'-8 1/8"	16'-9 3/8"
L18	16'-3 3/8"	16'-4 3/8"	16'-6 3/8"	16'-7 1/8"	16'-8 3/4"	16'-5 3/8"	16'-6 3/8"	16'-7 3/8"	16'-9 1/8"	16'-10 1/8"
L19	16'-3 3/8"	16'-4 3/8"	16'-6 3/8"	16'-7 1/8"	16'-8 3/4"	16'-5 3/8"	16'-6 3/8"	16'-7 3/8"	16'-9 1/8"	16'-10 1/8"
L20	18'-6 3/8"	14'-0 1/2"	9'-6 3/8"	5'-0 3/8"	0'-6"	17'-11 1/8"	13'-6 3/8"	9'-2 3/8"	4'-10 1/8"	0'-6"
L21	0'-6"	5'-1 3/8"	9'-9 1/8"	14'-4 3/8"	19'-0 3/8"	0'-6"	4'-11 1/8"	9'-5 3/8"	13'-10 3/8"	18'-4 1/8"
L22	15'-0 3/8"	15'-1 3/4"	15'-2 1/8"	15'-4 1/8"	15'-5 1/4"	15'-2 1/8"	15'-3 1/2"	15'-4 1/8"	15'-5 3/8"	15'-6 3/8"
L23	15'-0 3/8"	15'-1 3/4"	15'-2 1/8"	15'-4 1/8"	15'-5 1/4"	15'-2 1/8"	15'-3 1/2"	15'-4 1/8"	15'-5 3/8"	15'-6 3/8"
L24	20'-2 3/8"	15'-3 3/8"	10'-4 1/8"	5'-5 1/8"	0'-6"	19'-5 3/4"	14'-8 3/8"	9'-11 3/8"	5'-2 3/8"	0'-6"



SIDE RETAINER

ILLINOIS DEPARTMENT OF
TRANSPORTATION

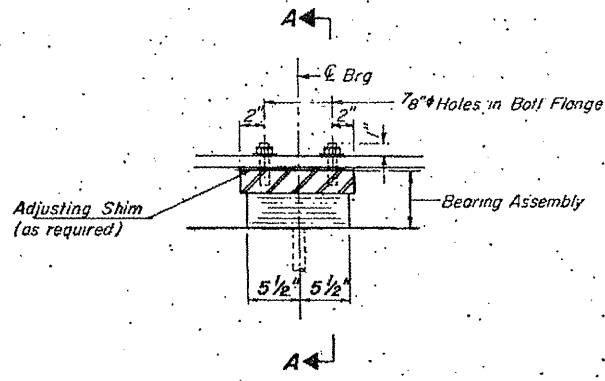
EXISTING BRIDGE PLAN

LOCATION 17: SN 049-0029
US 41 (SKOKIE HWY.) OVER DES PLAINES RIVER

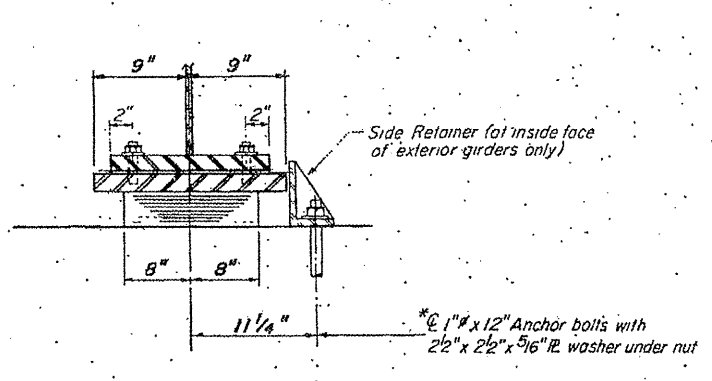
SH. 4 of 5

ROUTE VARIOUS	SECTION 2010-023 BP	COUNTY VARIOUS	TOTAL SHEETS 93	SHEET NUMBER 91
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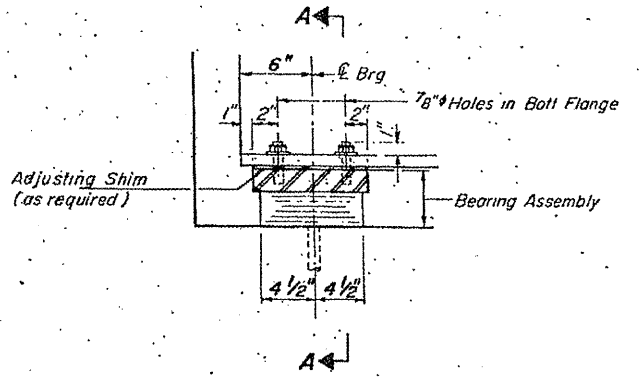
CONTRACT NO. 60K48



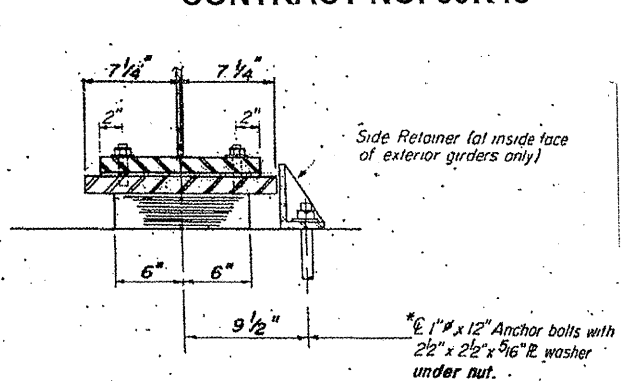
SECTION AT PIER



SECTION A-A

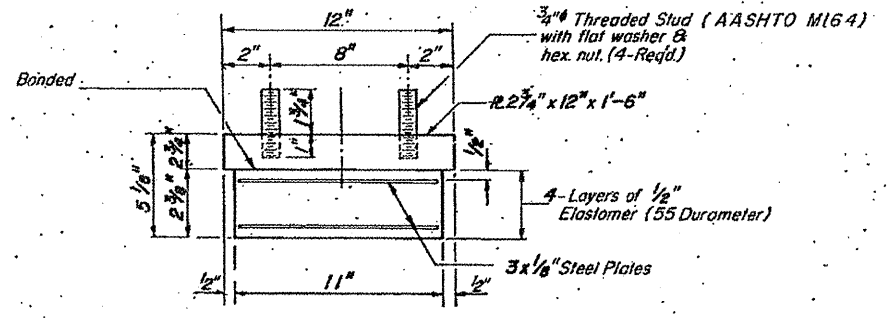


SECTION AT ABUT.



SECTION A-A

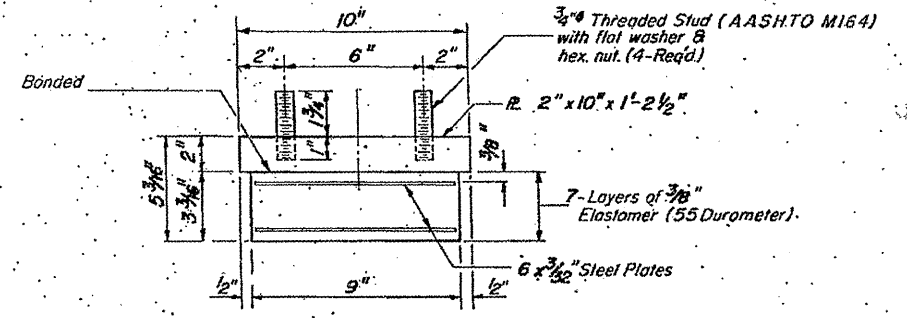
**TYPE I ELASTOMERIC EXP. BRG.
AT PIER NO. 1**



BEARING ASSEMBLY

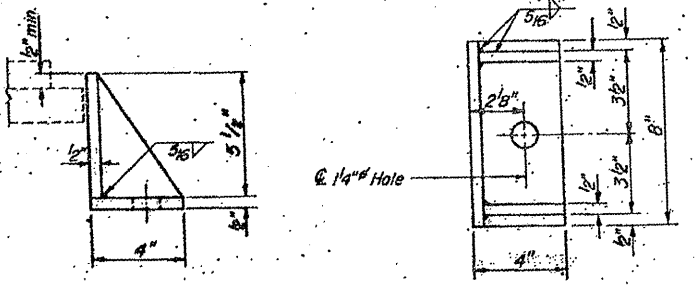
*Note: After girders have been erected holes at expansion bearings shall be drilled and anchor bolts grouted in place. Anchor bolts at fixed bearings may be built into the masonry.

**TYPE I ELASTOMERIC EXP. BRG.
AT NORTH ABUTMENT**

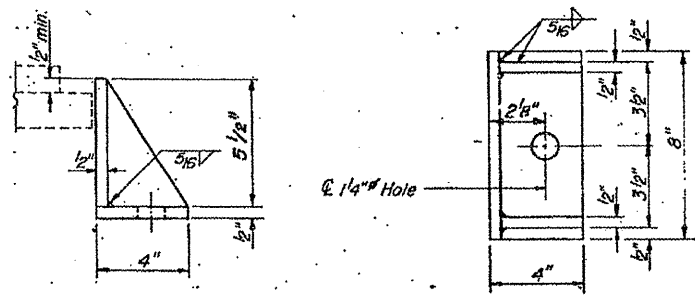


BEARING ASSEMBLY

Notes:
Steel plates in bearing assemblies shall be AASHTO M163.
Work this sheet with sheets no. 12-14.



SIDE RETAINER



SIDE RETAINER

ILLINOIS DEPARTMENT OF
TRANSPORTATION

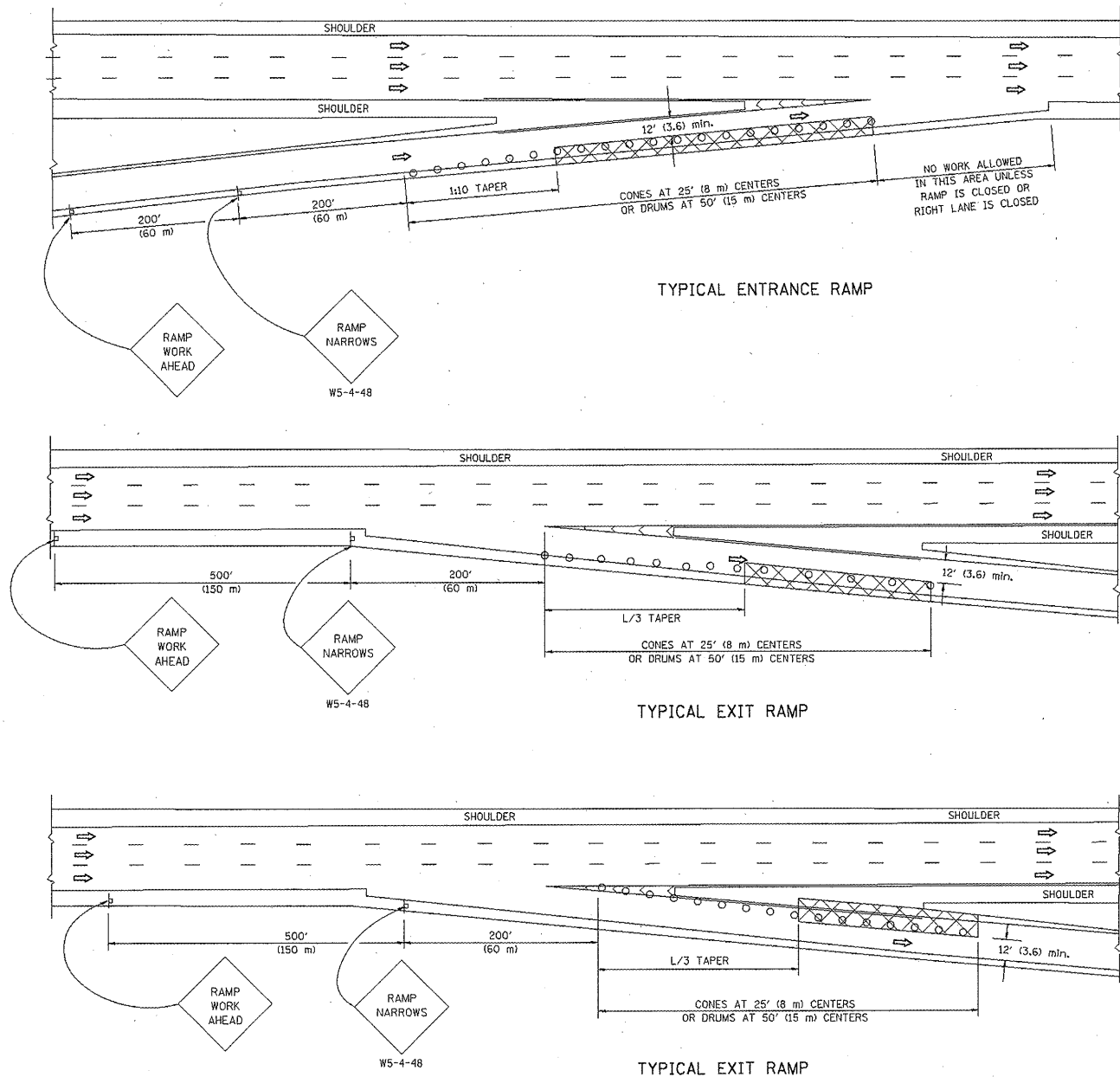
EXISTING BRIDGE PLAN

LOCATION 17: SN 049-0029
US 41 (SKOKIE HWY.) OVER DES PLAINES RIVER

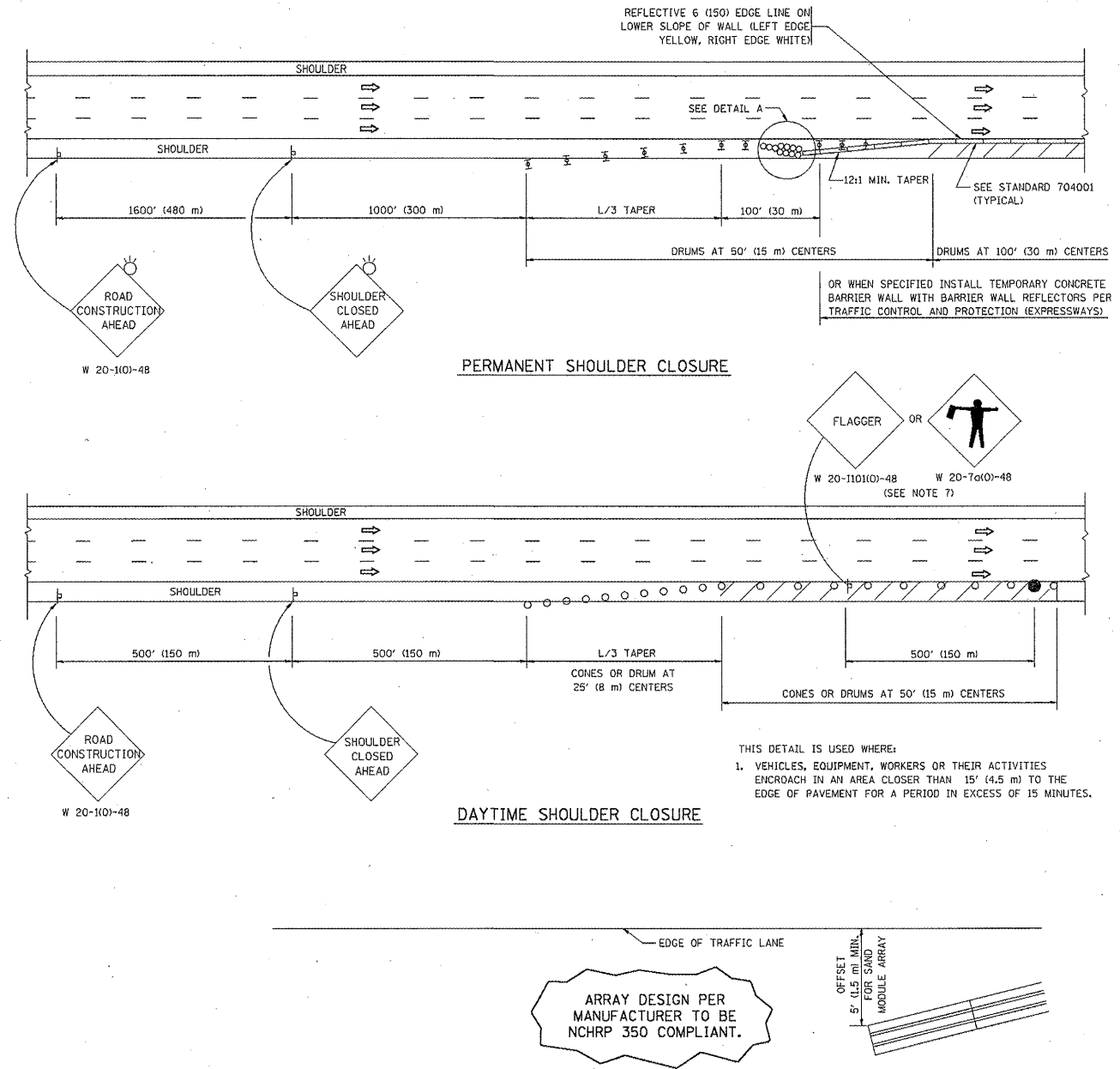
SH 50F5

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
WAR 2010-0130H VAR.			93	92
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PARTIAL RAMP CLOSURE DETAILS



SHOULDER CLOSURE DETAILS



SYMBOLS

- ACTIVE WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- TYPE II BARRICADE, DRUM OR VERTICAL BARRICADE WITH STEADY BURN MONO-DIRECTIONAL LIGHT
- CONE, DRUM OR BARRICADE

GENERAL NOTES

- THE "L" DISTANCE EQUALS:

SPEED LIMIT	FORMULAS
45 mph (80 km/h) OR GREATER:	METRIC ENGLISH $L=0.65(W)(S)$ $L=(W)(S)$
W = WIDTH OF OFFSET IN FEET (METERS)	
S = NORMAL POSTED SPEED MPH (KM/H)	
- PLASTIC DRUMS WITH HIGH PERFORMANCE REFLECTIVE SHEETING AND STEADY BURNING LIGHTS ARE REQUIRED FOR ALL NIGHTTIME CLOSURES.
- 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.

- 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.
- 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 ACTIVITY 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.

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

REVISIONS	
NAME	DATE
DWS	11/96
JAF	12/02
NCHRP 350	04/03
JAF	2/06
SPB	1/07
SPB	12/09

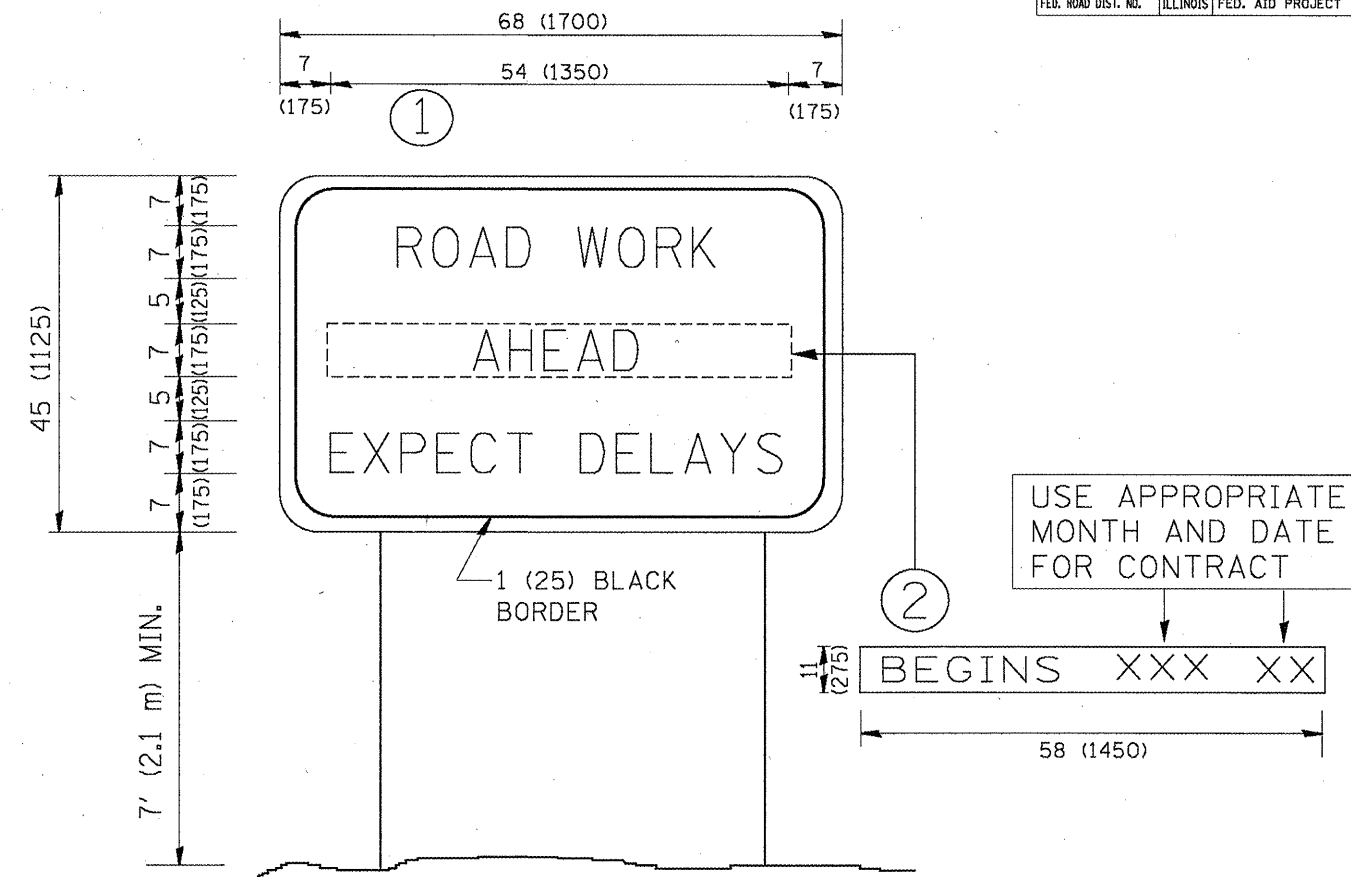
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

ILLINOIS DEPARTMENT OF TRANSPORTATION
TRAFFIC CONTROL DETAILS
FOR FREEWAY
SHOULDER CLOSURES
PARTIAL RAMP CLOSURES

SCALE: NONE

DESIGNED BY: DWS
DRAWN BY:
CHECKED BY:
TC-17

F.A. RTE.	SECTION	COUNTY	TOTAL SHEET NO.
VAR 2010-023 8P	VAR.	93	93
STA.		TO STA.	
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	



NOTES:

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

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

REVISIONS	
NAME	DATE
R. MIRS	9-15-97
R. MIRS	12-11-97
T. RAMMACHER	2-2-99
C. JUCIUS	1-31-07

ILLINOIS DEPARTMENT OF TRANSPORTATION
ARTERIAL ROAD INFORMATION SIGN
SCALE: NONE
DRAWN BY DESIGN
CHECKED BY
TC22

PLOT DATE = 3/6/2007
PLOT SCALE = 1/8"=1'-0"
USER NAME = bauerdl