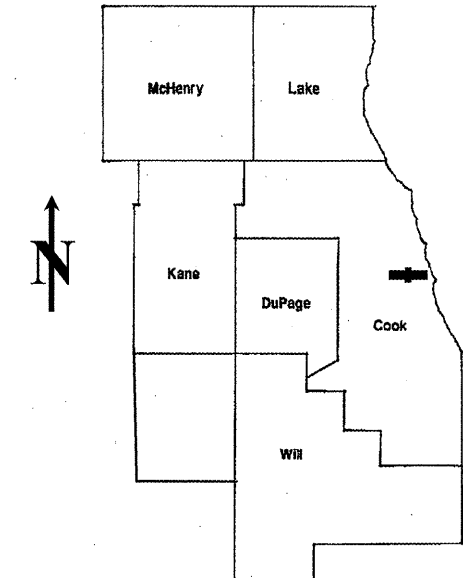


ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
FAI 290	2011-047-BP	COOK	31	1

FOR INDEX OF SHEETS SEE SHEET 2

CONTRACT NO. 60P57

D-91-582-11



LOCATION OF IMPROVEMENT INDICATED THUS: 

IMPROVEMENTS ARE LOCATED  
IN THE CITY OF CHICAGO  
AND THE VILLAGES OF  
BERKELEY, HILLSIDE AND  
FOREST PARK

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

FAI RTE 290: I-290  
OVER VARIOUS LOCATIONS  
SECTION 2011-047-BP  
BRIDGE PAINTING  
COOK COUNTY  
C-91-582-11

BRIDGE NO. 1: SN 016-0083  
BRIDGE NO. 2: SN 016-0084  
BRIDGE NO. 3: SN 016-0086  
BRIDGE NO. 4: SN 016-0090  
BRIDGE NO. 5: SN 016-0094  
BRIDGE NO. 6: SN 016-0095  
BRIDGE NO. 7: SN 016-0986

PROJECT ENGINEER ROBERT BORO (847) 705-4237  
PROJECT MANAGER ISSAM RAYYAN (847) 705-4178

CONTRACT NO. 60P57

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED: August 31, 2011  
Diane M. O'Keefe  
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

Oct 14 2011  
Scott E. Still  
acting ENGINEER OF DESIGN AND ENVIRONMENT

Oct 14 2011  
Christine M. Reed  
DIRECTOR, DIVISION OF HIGHWAYS

PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS

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

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

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
FAI 290	2011-047-BP	COOK	31	2

CONTRACT NO. 60P57

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- 2 INDEX OF SHEETS, STATE STANDARDS
- 3 GENERAL NOTES
- 4 GENERAL PAINT NOTES
- 5-6 SUMMARY OF QUANTITIES
- 7-10 LOCATION MAPS
- 11-13 EXISTING BRIDGE PLANS (BRIDGE NO.1 SN 016-0083 NB, & BRIDGE NO 2 SN -0084 SB)
- 14-16 EXISTING BRIDGE PLANS (BRIDGE NO. 3, SN 016-0086)
- 17-20 EXISTING BRIDGE PLANS (BRIDGE NO. 4, SN 016-0090)
- 21-25 EXISTING BRIDGE PLANS (BRIDGE NO 5. SN 016-0094 & BRIDGE NO 6. SN 016-0095)
- 26-27 EXISTING BRIDGE PLANS (BRIDGE NO 7. SN 016-0986)
- 28 FREEWAY ENTRANCE AND EXIT RAMP CLOSURE DETAILS (TC-8)
- 29 TRAFFIC CONTROL DETAILS FOR FREEWAY SINGLE & MULTI-LANE WEAVE (TC-9)
- 30 TRAFFIC CONTROL FOR SHOULDERS CLOSURES AND PARTIAL RAMP CLOSURES (TC-17)
- 31 ARTERIAL ROAD INFORMATION SIGN (TC-22)

- 701001-02 OFF ROAD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
- 701006-03 OFF ROAD OPERATION, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
- 701101-02 MULTILANE OFF-ROAD OPERATIONS, 15' TO 24" FROM PAVEMENT EDGE
- 701106-02 MULTILANE, OFF-ROAD OPERATIONS, MORE THEN 15' FROM PAVEMENT EDGE
- 701301-04 2L, 2W, LANE CLOSURE, SHORT TIME OPERATIONS
- 701400-05 FREEWAY/ EXPRESSWAY, APPROACH TO LANE CLOSURE
- 701401-06 FREEWAY/ EXPRESSWAY, LANE CLOSURE
- 701411-07 LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS > 45 MPH
- 701501-06 URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
- 701601-07 URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE 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
FAI 290	2011-047-BP	COOK	31	3

CONTRACT NO. 60P57

## 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 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS UTILITIES. (48 HOUR NOTIFICATION IS REQUIRED).

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, THE CITY OF CHICAGO AND THE VILLAGES OF BERKELEY, HILLSIDE & FOREST PARK.

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 "ADVANCED WARNING SIGN DETAIL FOR ARTERIAL TRAFFIC" LOCATED IN THE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING FOR LANE CLOSURES" IS APPLICABLE ONLY TO ARTERIAL ROADS AND SHALL NOT BE APPLIED TO EXPRESSWAYS.

THESE PLANS HAVE BEEN PREPARED FROM NOTES RECEIVED FROM THE BUREAU OF MAINTENANCE.

ILLINOIS DEPARTMENT OF  
TRANSPORTATION

GENERAL NOTES

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
FAI 290	2011-047-BP	COOK	31	4

CONTRACT 60P57

## 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) AT BRIDGES: 3 (SN 016-0086), 4 (SN 016-0090), 7(SN 016-0986), AND TWO (2) AT BRIDGES: 1 (S.N. 016-0083), 2 (SN 016-0084) 5 (SN 016-0094), 6 (SN 016-0095) AIR MONITORS WILL BE REQUIRED 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 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.

### **BRIDGES 1 (SN 016-0083) and 2 (SN 016-0084):**

ALL BEAMS, BEARINGS AND OTHER STRUCTURAL STEEL WITHIN FIVE (5) FT., (MEASURED ALONG THE BEAM) OF EITHER SIDE OF ALL TRANSVERSE 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. FACIA BEAMS ARE DEFINED AS BEAM NUMBERS 15 & 20 (SEE SHEET #12 OF 29).

### **BRIDGES 3 (SN 016-0086), 5 (SN 016-0094), 6 (SN 016-0095):**

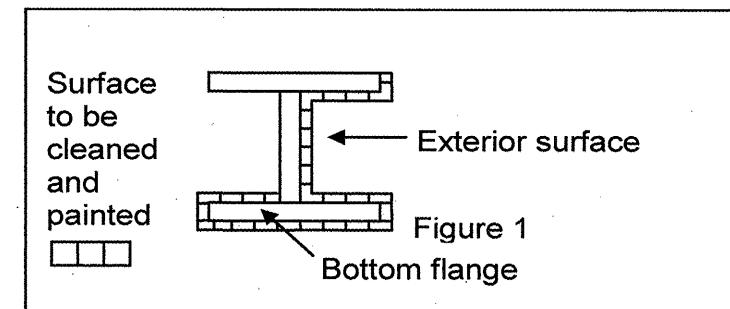
ALL BEAMS, BEARINGS AND OTHER STRUCTURAL STEEL WITHIN FIVE (5) FT., (MEASURED ALONG THE BEAM) OF EITHER SIDE OF ALL TRANSVERSE DECK JOINTS, SHALL BE CLEANED PER NEAR WHITE BLAST CLEANING SSPC-SP10. THE EXTERIOR SURFACES AND TOP AND BOTTOM OF THE BOTTOM FLANGE OF THE FASCIA BEAMS (SEE FIGURE 1) SHALL BE CLEANED PER NEAR WHITE BLAST CLEANING SSPC-SP10.

### **.BRIDGE 4 (SN 016-0090):**

ALL BEAMS, BEARINGS AND OTHER STRUCTURAL STEEL WITHIN FIVE (5) FT., (MEASURED ALONG THE BEAM) OF EITHER SIDE OF ALL TRANSVERSE DECK JOINTS, SHALL BE CLEANED PER NEAR WHITE BLAST CLEANING SSPC-SP10.

### **BRIDGE 7(SN 016-0986):**

ALL EXISTING STEEL SHALL BE CLEANED PER NEAR WHITE BLAST CLEANING SSPC-SP10.



**FASCIA BEAM PAINTING DETAIL**

**FIGURE 1**

ILLINOIS DEPARTMENT OF TRANSPORTATION

GENERAL PAINT NOTES

<b>ROUTE</b>	<b>SECTION</b>	<b>COUNTY</b>	<b>TOTAL SHEETS</b>	<b>SHEET NUMBER</b>
FAI 290	2011-047-BP	COOK	31	5

CONTRACT NO. 60P57

*URBAN*  
SUMMARY OF QUANTITIES

CODE NO	DESCRIPTION	UNITS	100% STATE TOTAL QUANTITIES	CONSTRUCTION TYPE CODE: 0014						
				BR. 1 SN 016-0083	BR. 2 SN 016-0084	BR. 3 SN 016-0086	BR. 4 SN 016-0090	BR. 5 SN 016-0094	BR. 6 SN 016-0095	BR. 7 SN 016-0986
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	0.8	0.8	1	1	0.8	0.8	0.8
67100100	MOBILIZATION	L SUM	1	0.15	0.15	0.16	0.15	0.16	0.16	0.07
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1							1
70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	1	0.2	0.2	0.2		0.2	0.2	
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	0.2	0.2	0.2		0.2	0.2	
X7011015	TRAFFIC CONTROL AND PROTECTION(EXPRESSWAYS)	L SUM	1	0.15	0.15	0.16	0.15	0.16	0.16	0.07
Z0007112	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES	L SUM	1	0.15	0.15	0.16	0.15	0.16	0.16	0.07
Z0010501	CLEANING AND PAINTING STEEL BRIDGE NO. 1	L SUM	1	1						
Z0010502	CLEANING AND PAINTING STEEL BRIDGE NO. 2	L SUM	1		1					
Z0010503	CLEANING AND PAINTING STEEL BRIDGE NO. 3	L SUM	1			1				
Z0010504	CLEANING AND PAINTING STEEL BRIDGE NO. 4	L SUM	1				1			
Z0010505	CLEANING AND PAINTING STEEL BRIDGE NO. 5	L SUM	1					1		

ILLINOIS DEPARTMENT OF  
TRANSPORTATION

SUMMARY OF QUANTITIES

<b>ROUTE</b>	<b>SECTION</b>	<b>COUNTY</b>	<b>TOTAL SHEETS</b>	<b>SHEET NUMBER</b>
FAI 290	2011-047-BP	COOK	31	6

CONTRACT NO. 60P57

**SUMMARY OF QUANTITIES**

CODE NO	DESCRIPTION	UNITS	100% STATE TOTAL QUANTITIES	CONSTRUCTION TYPE CODE: 0014						
				BR. 1 SN 016-0083	BR. 2 SN 016-0084	BR. 3 SN 016-0086	BR. 4 SN 016-0090	BR. 5 SN 016-0094	BR. 6 SN 016-0095	BR. 7 SN 016-0986
Z0010506	CLEANING AND PAINTING STEEL BRIDGE NO. 6	L SUM	1						1	
Z0010507	CLEANING AND PAINTING STEEL BRIDGE NO. 7	L SUM	1							1
Z0026346	NIGHTTIME WORK ZONE LIGHTING	L SUM	1				1			
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	179.9	25.7	25.7	51.4		25.7	25.7	25.7

ILLINOIS DEPARTMENT OF  
TRANSPORTATION  
  
SUMMARY OF QUANTITIES

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
FAI 290	2011-047-BP	COOK	31	7

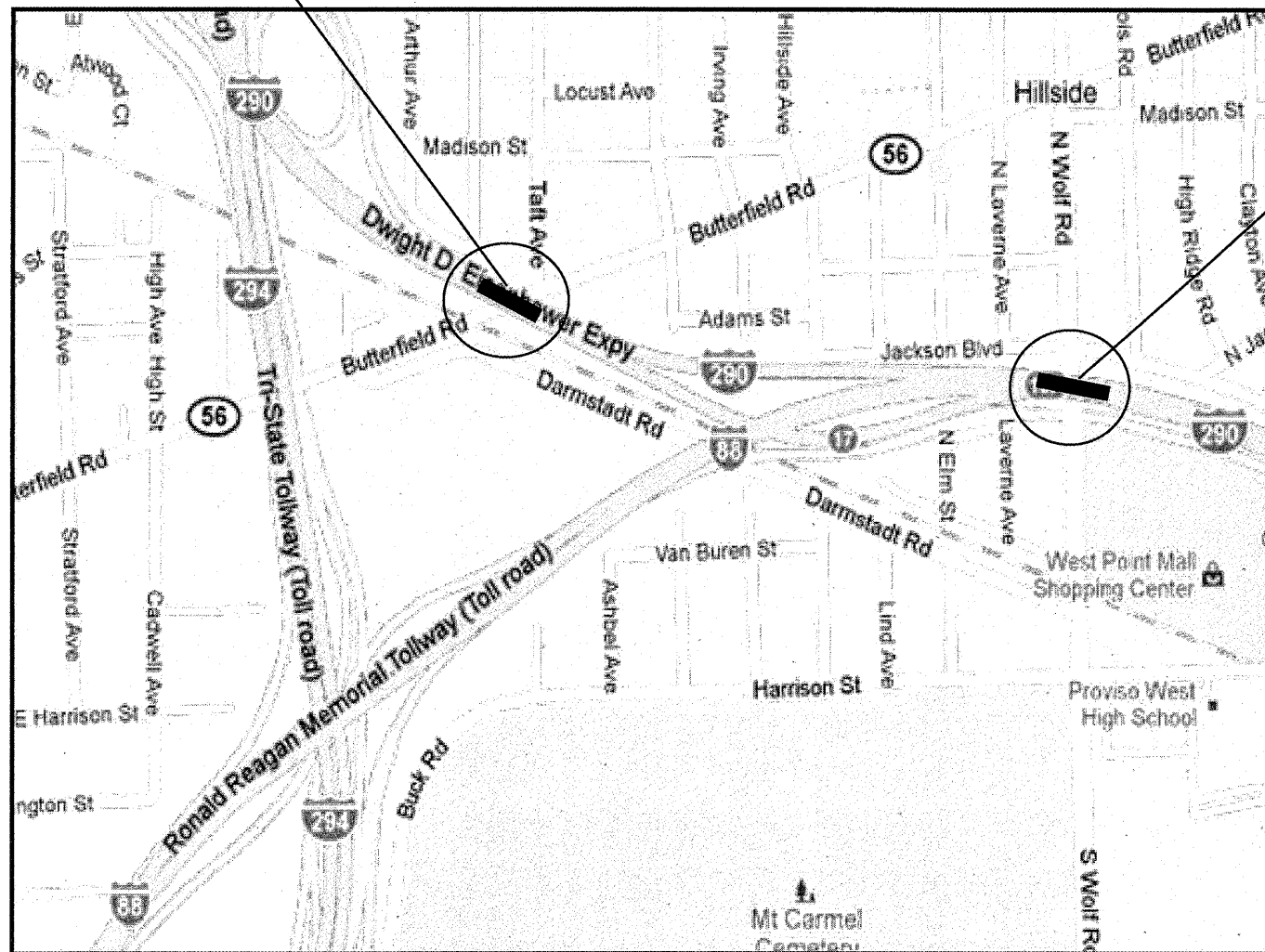
CONTRACT NO. 60P57

BRIDGE 1: SN 016-0083 WB  
 BRIDGE 2: SN 016-0084 EB  
 I-290 (EISENHOWER EXPY)  
 OVER IL56 (BUTTERFIELD RD)  
 VILLAGE OF BERKELEY

R 12 E

BRIDGE 3: SN 016-0086  
 I-290 (EISENHOWER EXPY)  
 OVER WOLF RD  
 HILLSIDE VILLAGE

T 39 N



PROVISO TOWNSHIP  
 COOK COUNTY

**TRAFFIC DATA**

**LOCATION 3:**

I-290  
 2009 ADT = 110300  
 POSTED SPEED LIMIT = 55 MPH

IL 56 (BUTTERFIELD RD):  
 2009 ADT = 11000  
 POSTED SPEED LIMIT = 30 MPH

WOLF ROAD:  
 2010 ADT = 15900  
 POSTED SPEED LIMIT = 30 MPH

ILLINOIS DEPARTMENT OF  
 TRANSPORTATION

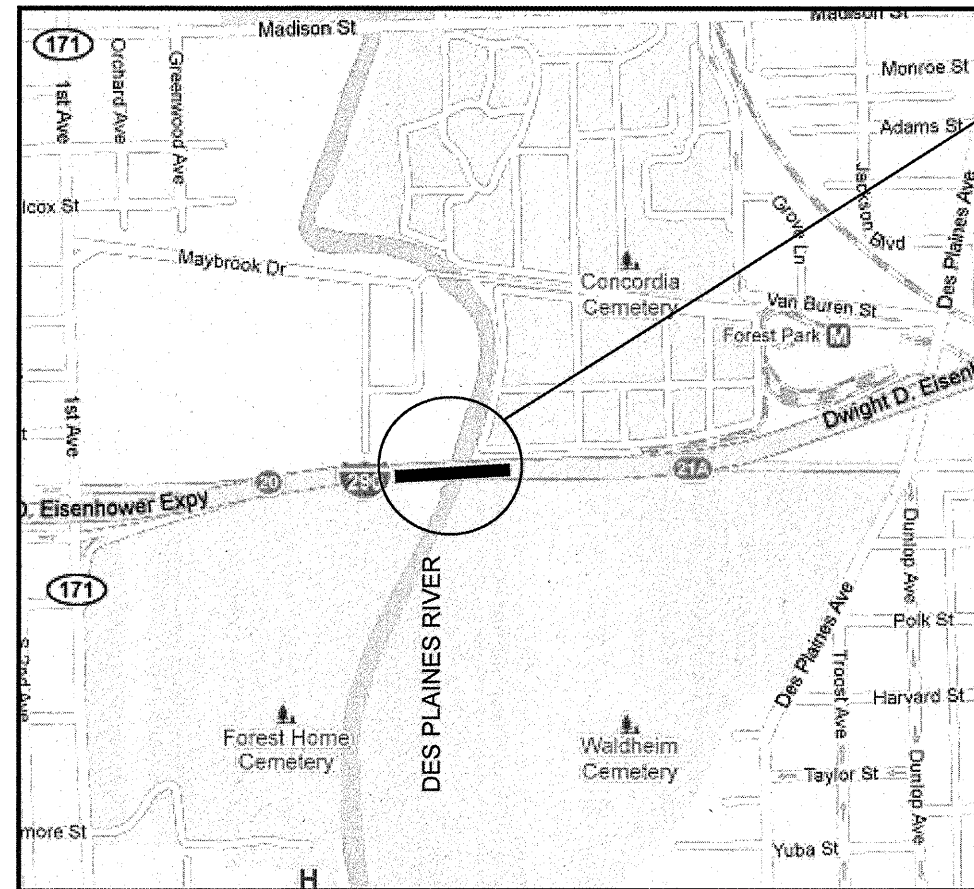
LOCATION MAP  
 BRIDGES 1 & 2: SN 016-0083, -0084  
 BRIDGE 3: SN 016-0086

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
FAI 290	2011-047-BP	COOK	31	8

CONTRACT NO. 60P57

R 12 E

T 39 N



BRIDGE 4: SN 016-0090  
I-290 (EISENHOWER EXPY)  
OVER DES PLAINES RIVER  
VILLAGE OF FOREST PARK



PROVISO TOWNSHIP  
COOK COUNTY

**TRAFFIC DATA**

I-290  
2009 ADT =187200  
POSTED SPEED LIMIT = 55 MPH

ILLINOIS DEPARTMENT OF  
TRANSPORTATION  
  
LOCATION MAP  
  
BRIDGE 4: SN 016-0090

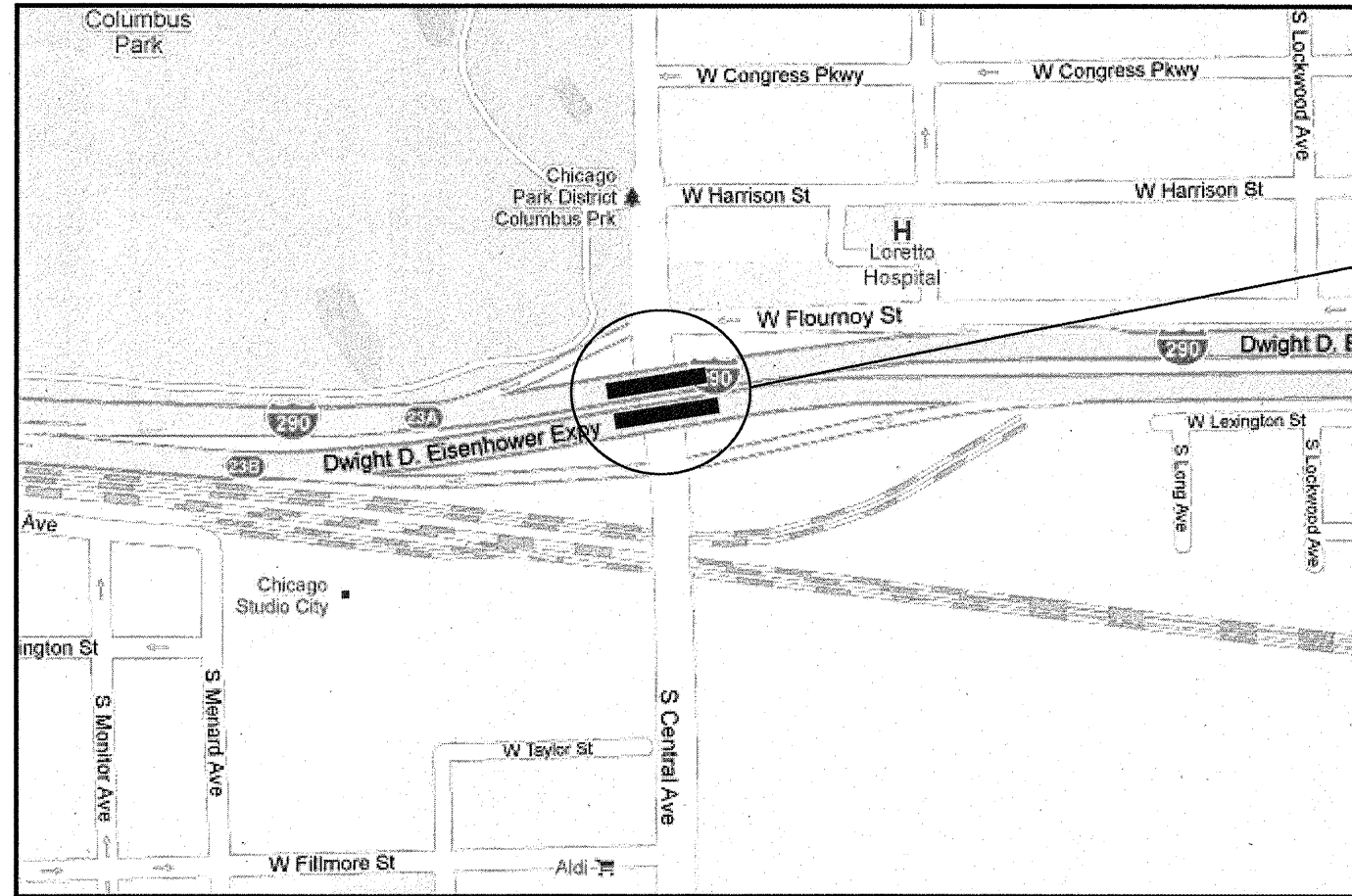


ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
FAI 290	2011-047-BP	COOK	31	9

CONTRACT NO. 60P57

R 13 E

T 39 N



BRIDGE 5: SN 016-0094 EB,  
BRIDGE 6: SN 016-0095 WB  
I-290 (EISENHOWER EXPY)  
OVER CENTRAL AVE  
CITY OF CHICAGO



WEST CHICAGO TOWNSHIP  
COOK COUNTY

**TRAFFIC DATA**

I-290  
2009 ADT = 190000  
POSTED SPEED LIMIT = 55 MPH

CENTRAL AVE:  
2010 ADT = 23700  
SPEED LIMIT = 25 MPH

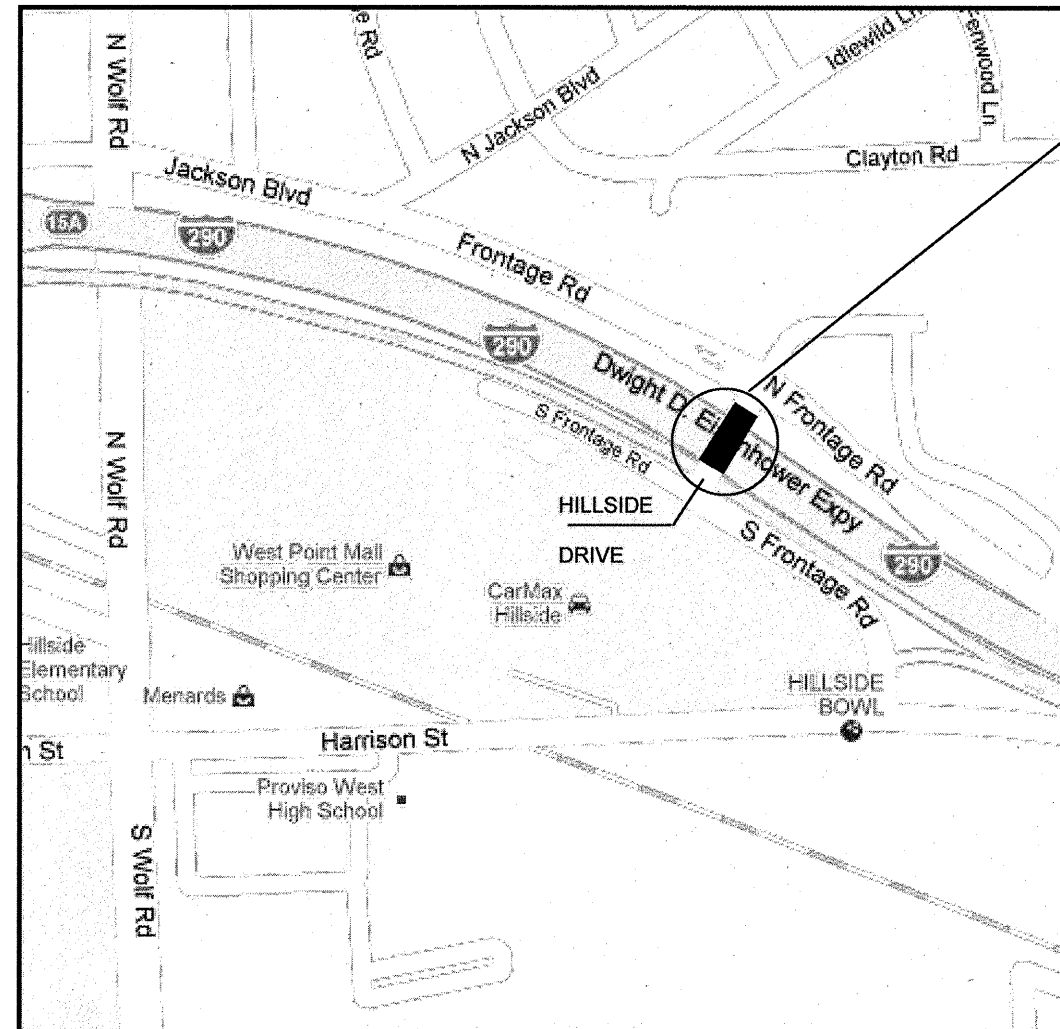
ILLINOIS DEPARTMENT OF  
TRANSPORTATION  
  
LOCATION MAP  
  
BRIDGES 5 & 6:SN 016-0094, -0095

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
FAI 290	2011-047-BP	COOK	31	10

CONTRACT NO. 60P57

R 12 E

T 39 N



BRIDGE 7: SN 016-0986  
I-290 (EISENHOWER EXPY)  
OVER HILLSIDE DRIVE  
VILLAGE OF HILLSIDE

**TRAFFIC DATA**

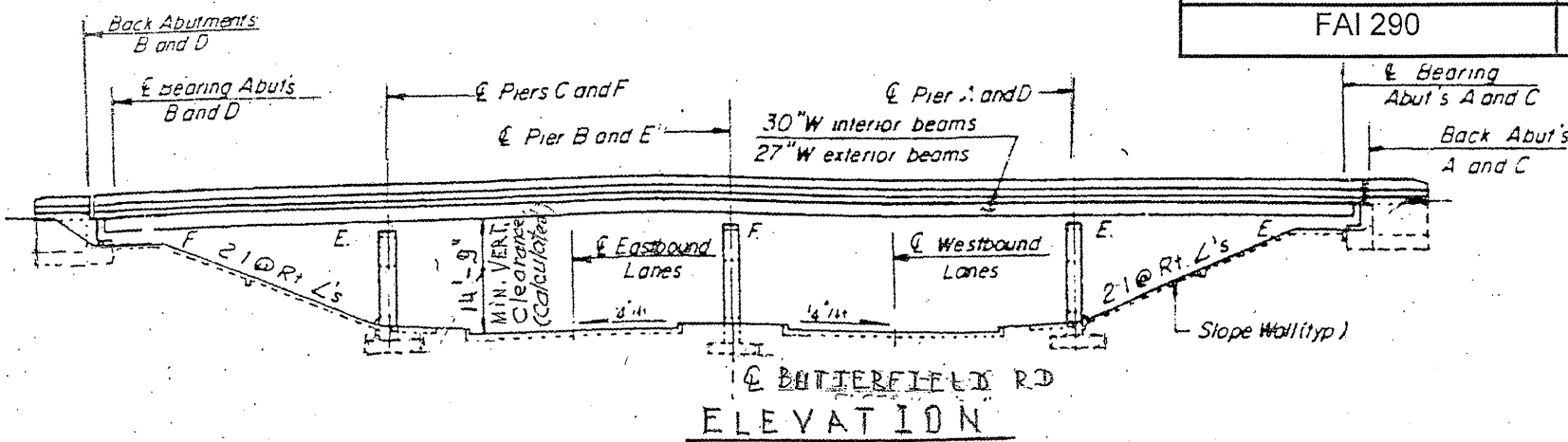
I-290  
2009 ADT = 206800  
POSTED SPEED LIMIT = 55 MPH

PROVISO TOWNSHIP  
COOK COUNTY

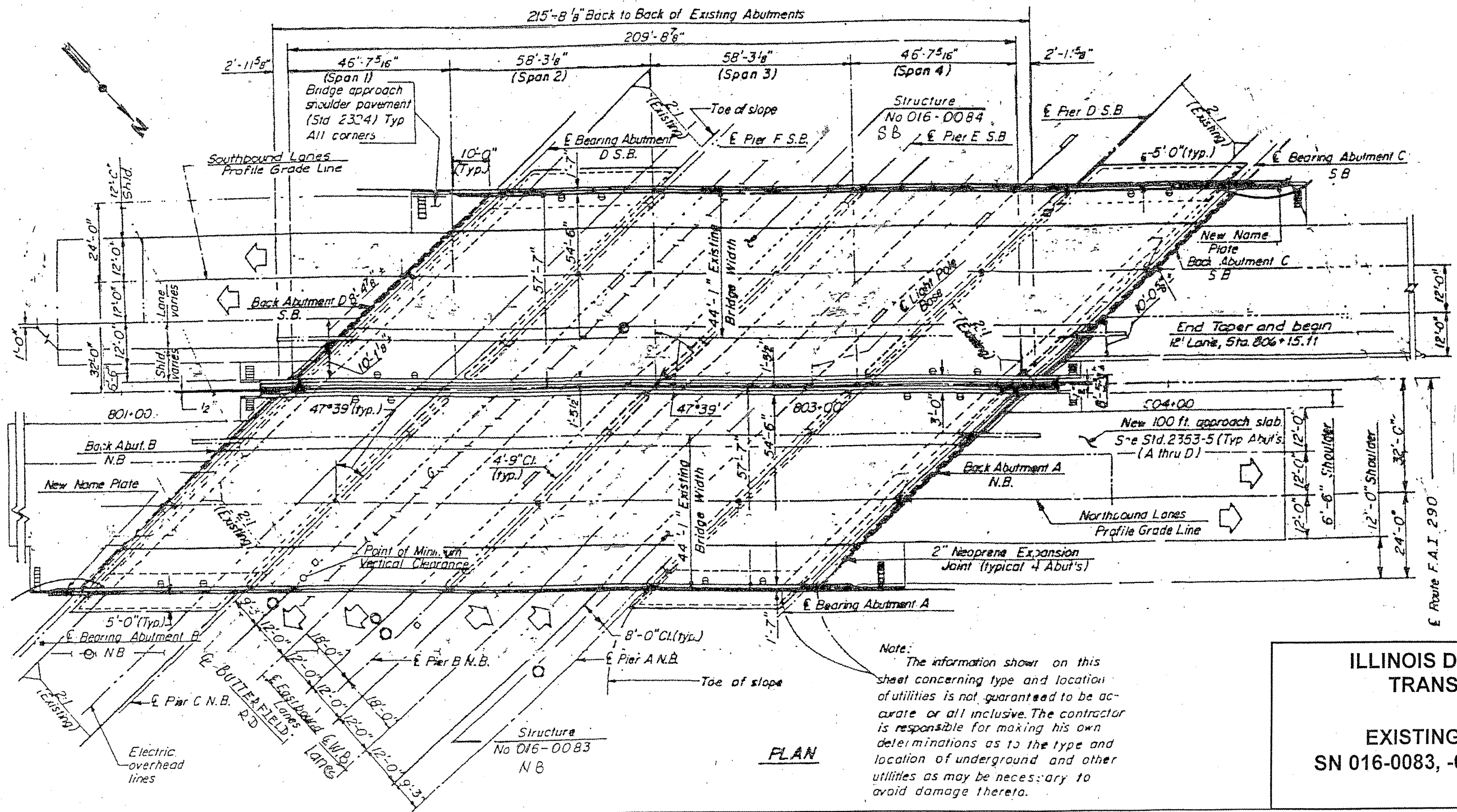
ILLINOIS DEPARTMENT OF  
TRANSPORTATION  
  
LOCATION MAP  
  
BRIDGE 7: SN 016-0986

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
FAI 290	2011-047-BP	COOK	31	11

CONTRACT NO. 60P57



**FOR INFORMATION ONLY**



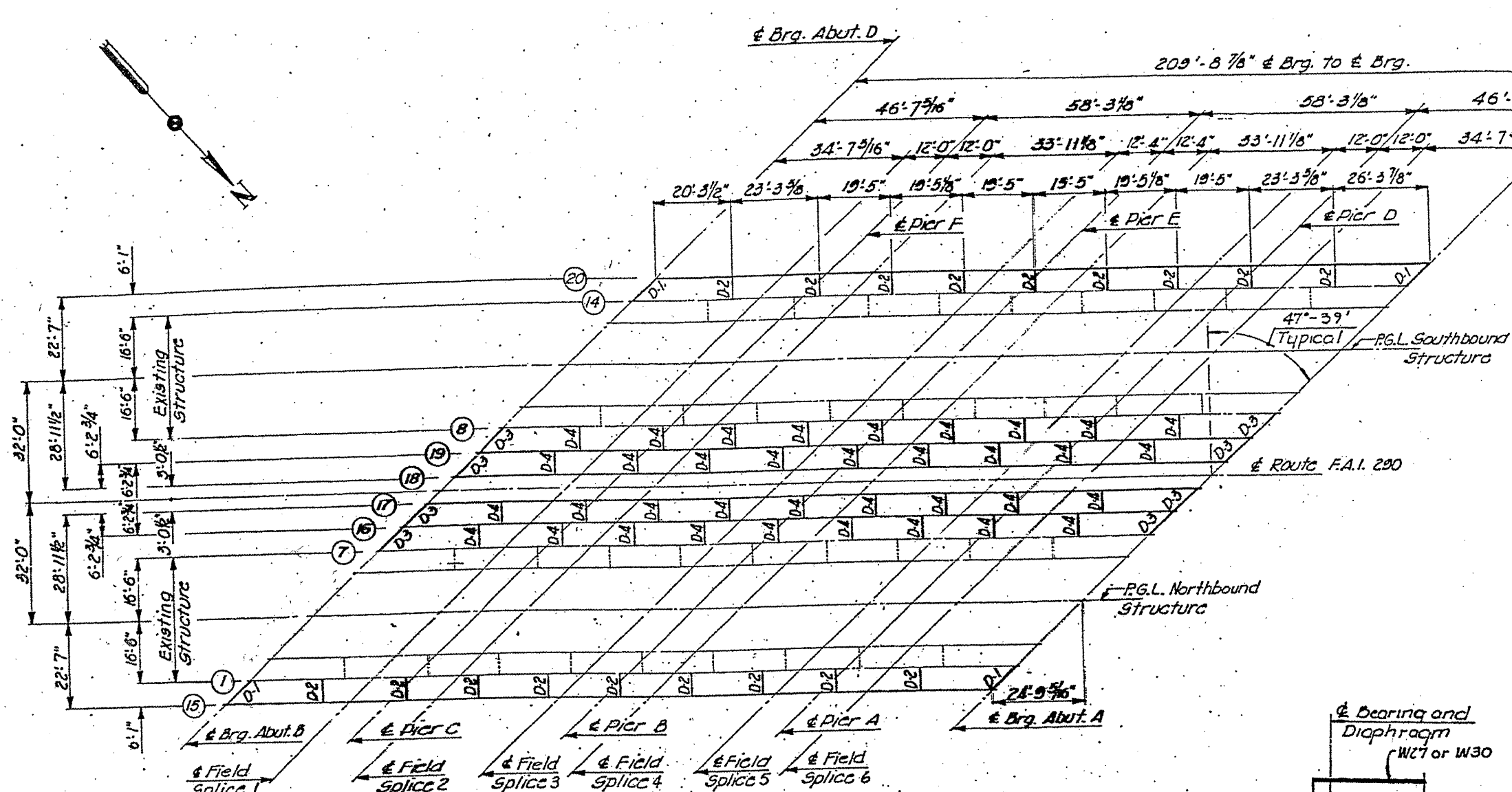
SHEET 1 OF 3

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 EXISTING BRIDGE PLAN  
 SN 016-0083, -0084 (BRIDGE 1 & 2)

Note:  
 The information shown on this sheet concerning type and location of utilities is not guaranteed to be accurate or all inclusive. The contractor is responsible for making his own determinations as to the type and location of underground and other utilities as may be necessary to avoid damage thereto.

ROUTE FAI 290	SECTION 2011-047-BP	COUNTY COOK	TOTAL SHEETS 34	SHEET NUMBER 12
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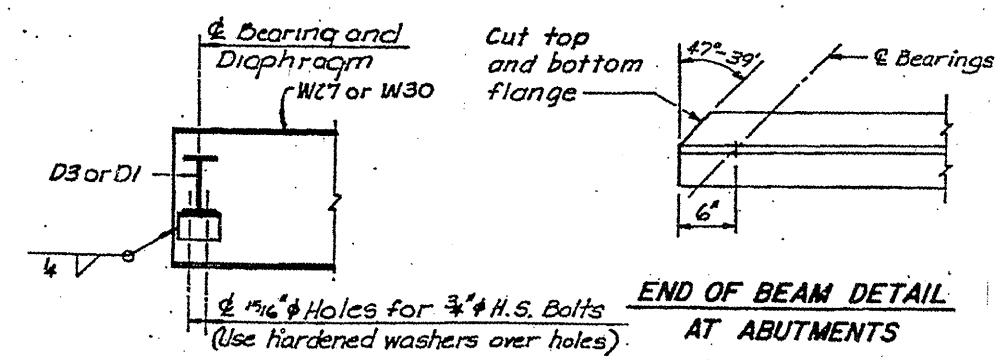
CONTRACT NO. 60P57



EXISTING BEAMS 1-7 AND 8-14 ARE W30X108 WITH 5'-6" SPACING.  
EXISTING DIAPHRAGMS ARE W16X36.

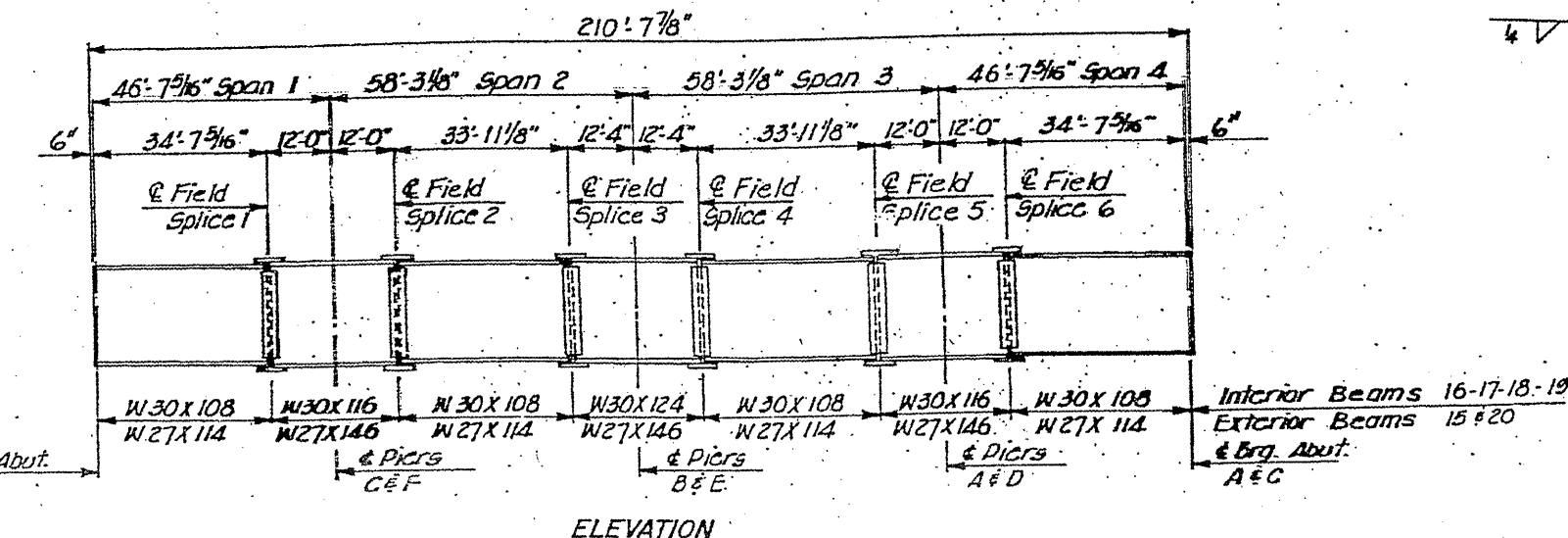
**FOR INFORMATION ONLY**

FRAMING PLAN



SECTION B-B

END OF BEAM DETAIL AT ABUTMENTS



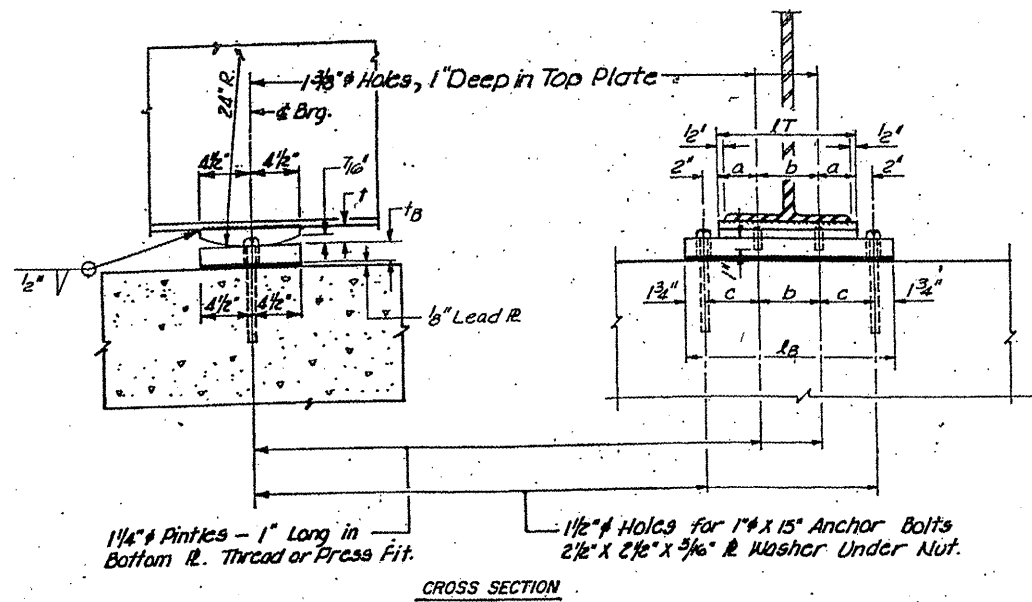
ELEVATION

SHEET 2 OF 3

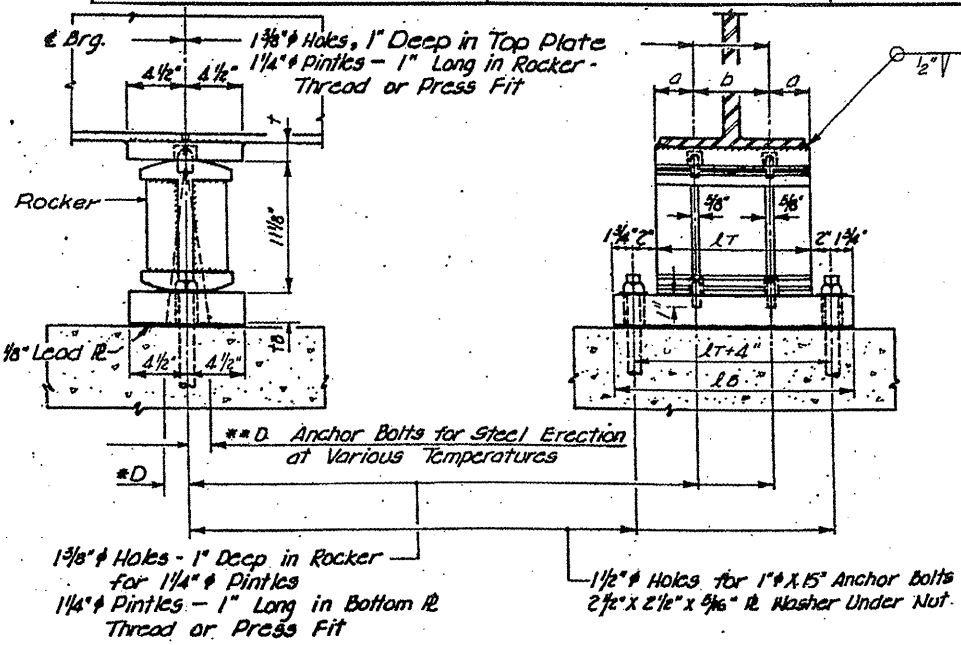
ILLINOIS DEPARTMENT OF TRANSPORTATION  
EXISTING BRIDGE PLAN  
SN 016-0083, -0084 (BRIDGE 1 & 2)

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
FAI 290	2011-047-BP	COOK	31	13

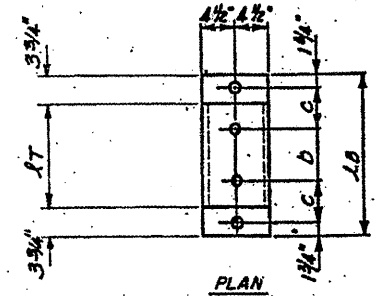
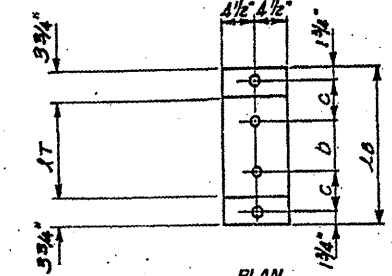
CONTRACT NO. 60P57



CROSS SECTION



CROSS SECTION



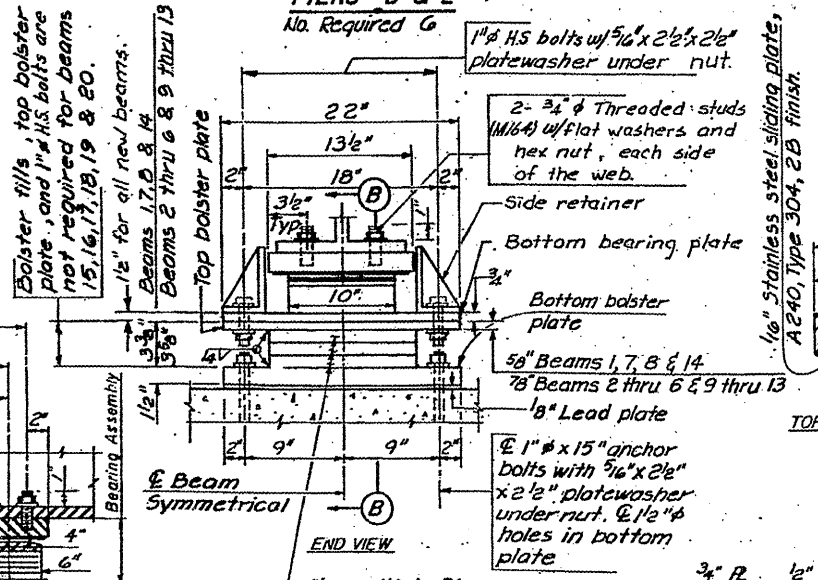
EXPANSION BEARING DETAILS  
PIERS A, C, D, & F  
No. Required 12

FOR INFORMATION ONLY

**FIXED BEARING DETAILS**

**PIERS B & E**  
No. Required 6

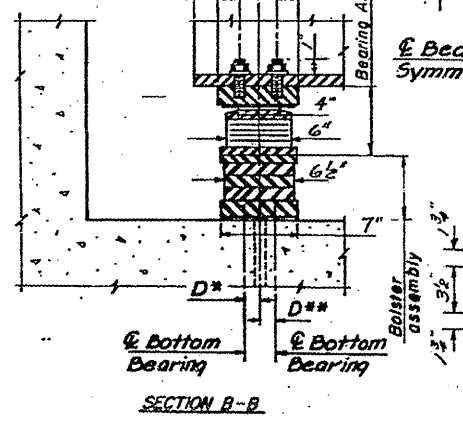
Note: Threaded studs shall be installed to a tight fit after bolster assembly and bearing assembly are installed.



END VIEW

TOP BEARING ASSEMBLY

PLAN OF TFE



PLAN OF BOLSTER PLATES

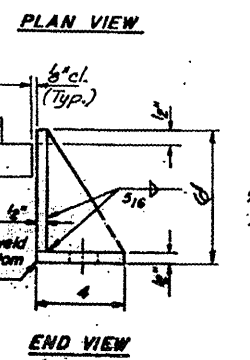
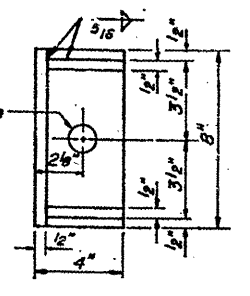
BOTTOM BEARING ASSEMBLY

DETAIL A

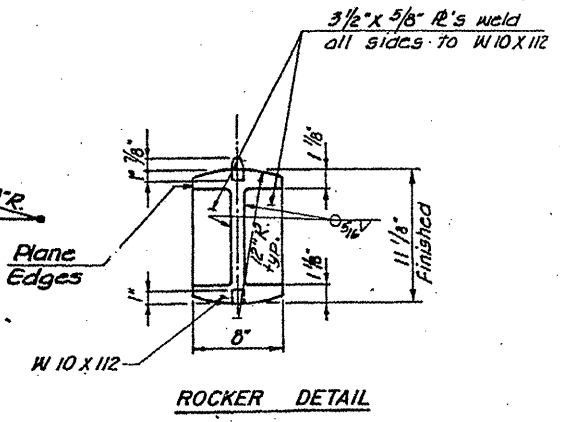
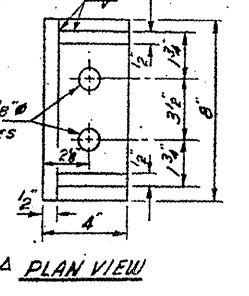
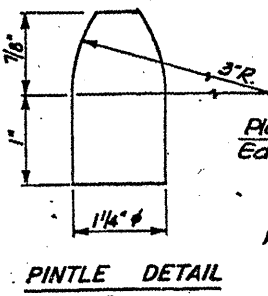
**ELASTOMERIC EXPANSION BEARING DETAILS**

1/8"  $\phi$  holes in bot brg R & top bolster R for exist bms

4"  $\phi$  Dimples on 4" centers 1/8" deep, or equivalent  
TFE surface  
Threaded holes for 3/4"  $\phi$  studs.



SIDE RETAINER

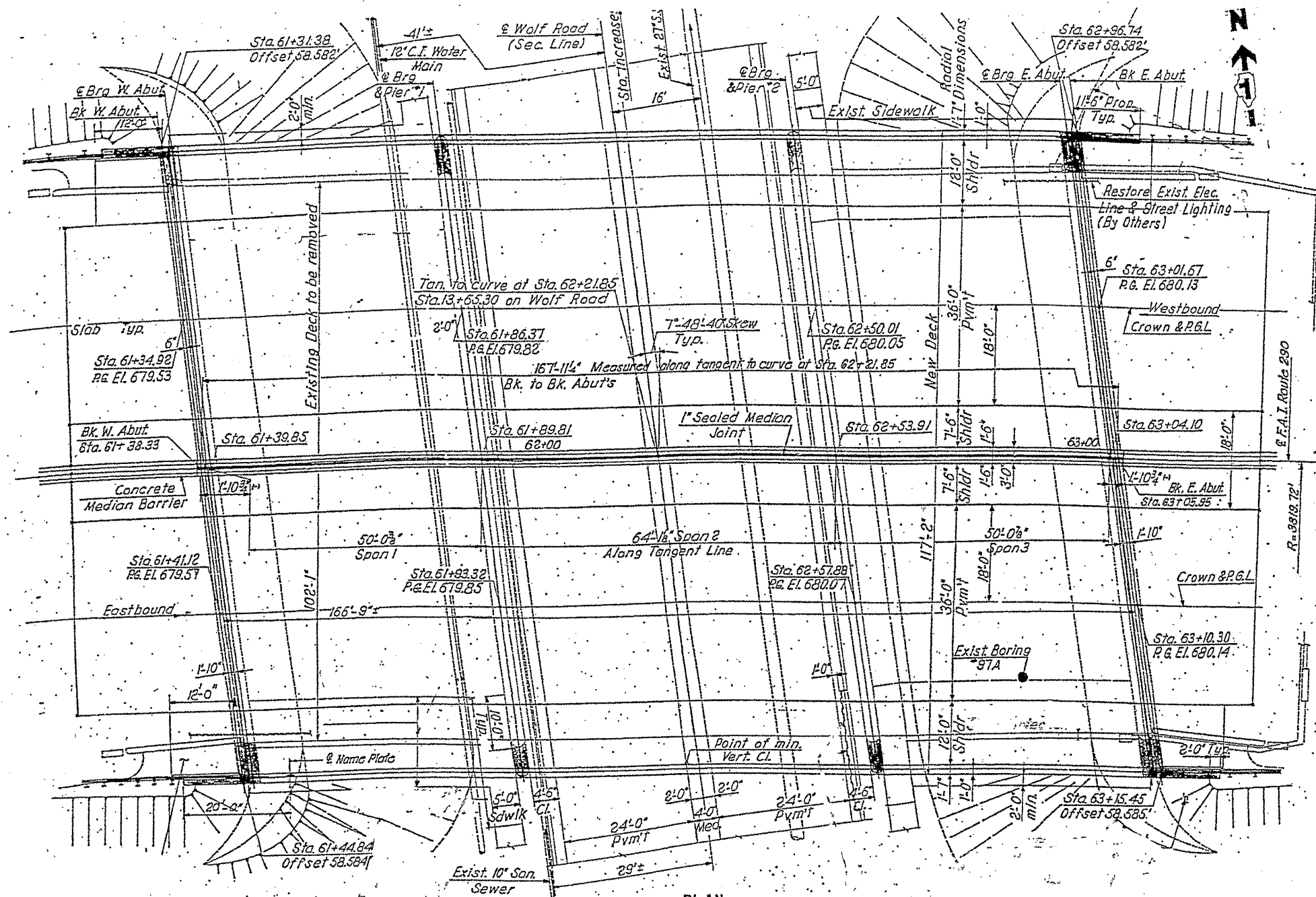


ILLINOIS DEPARTMENT OF TRANSPORTATION

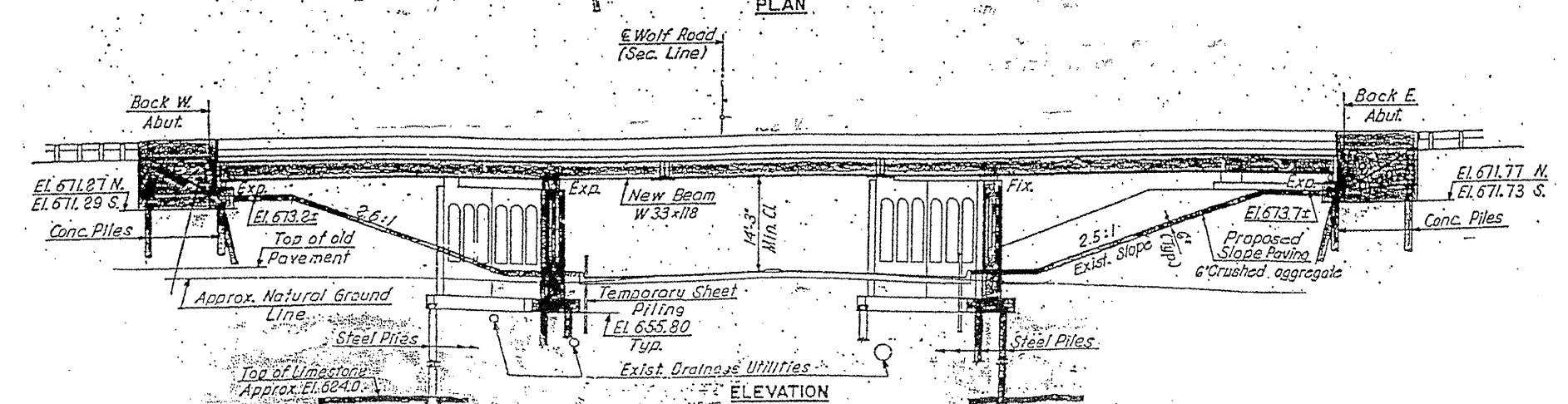
EXISTING BRIDGE PLAN  
SN 016-0083, -0084 (BRIDGE 1 & 2)

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
FAI 290	2011-047-BP	COOK	31	14

CONTRACT NO. 60P57



**FOR INFORMATION ONLY**

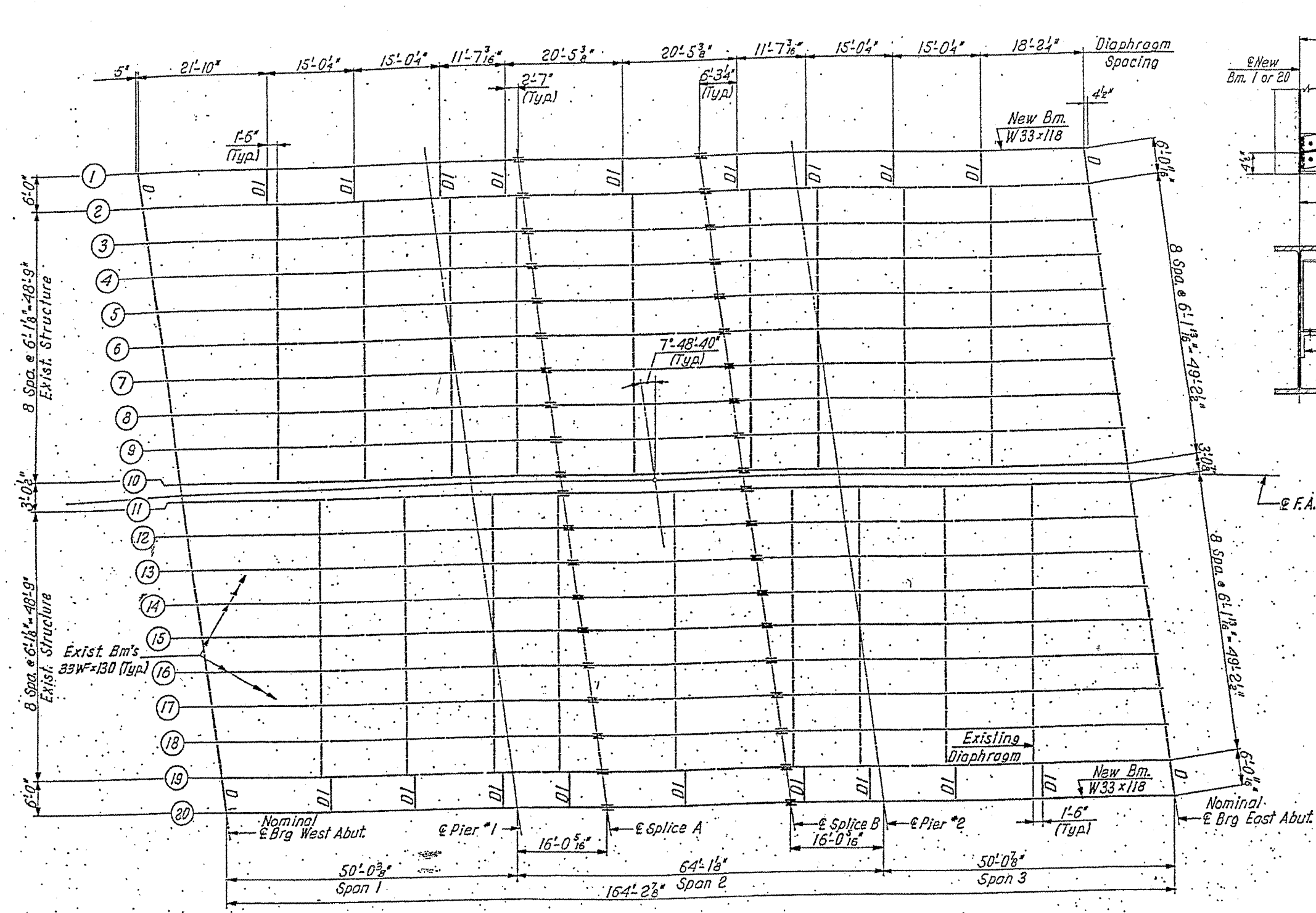


SHEET 1 OF 3

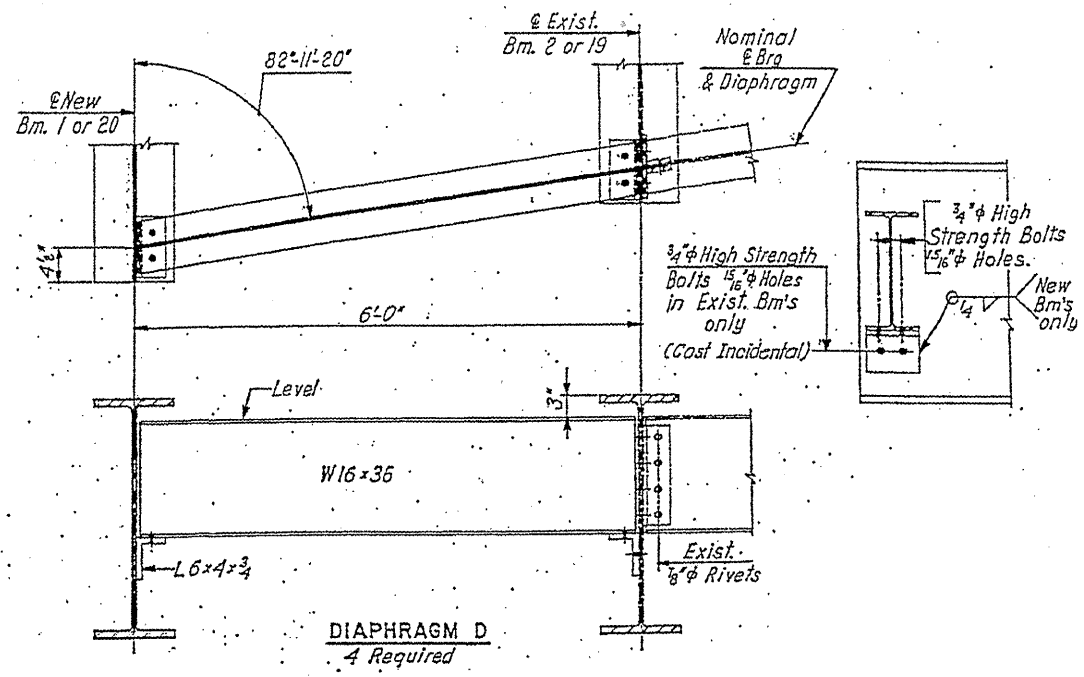
ILLINOIS DEPARTMENT OF  
TRANSPORTATION  
  
EXISTING BRIDGE PLAN  
SN 016-0086 (BRIDGE 3)

ROUTE FAI 290	SECTION 2011-047-BP	COUNTY COOK	TOTAL SHEETS 31	SHEET NUMBER 15
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CONTRACT NO. 60P57



FRAMING PLAN



**FOR INFORMATION ONLY**

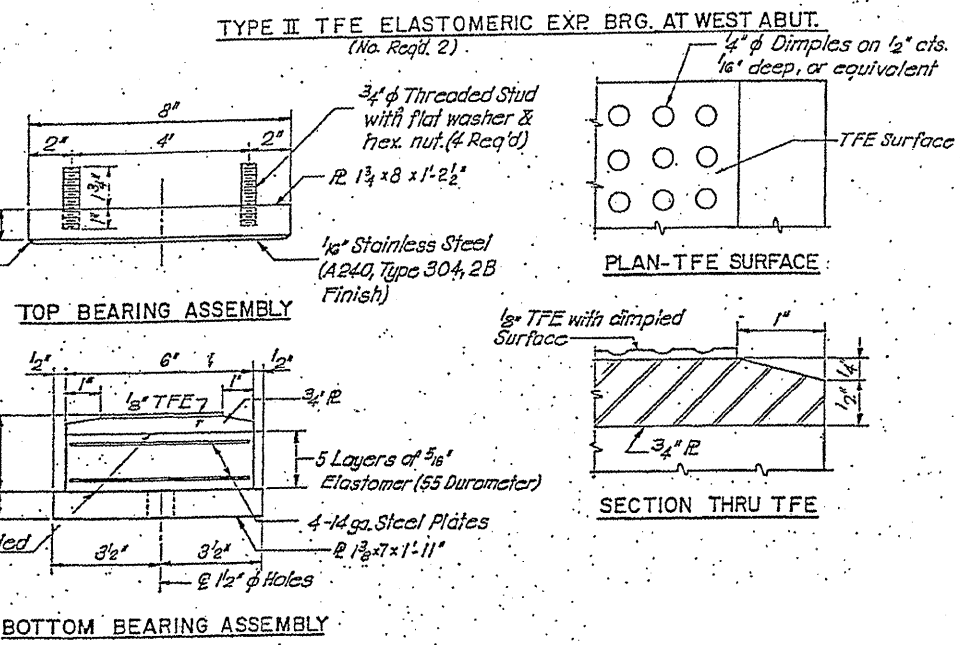
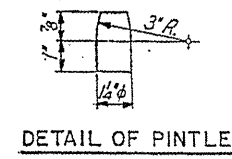
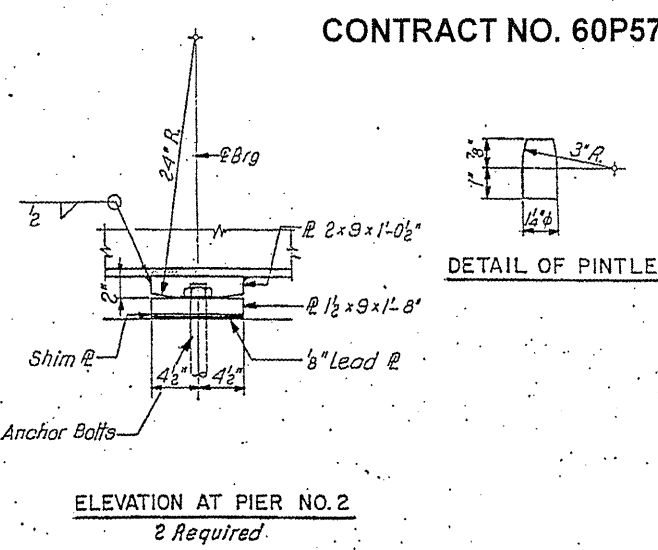
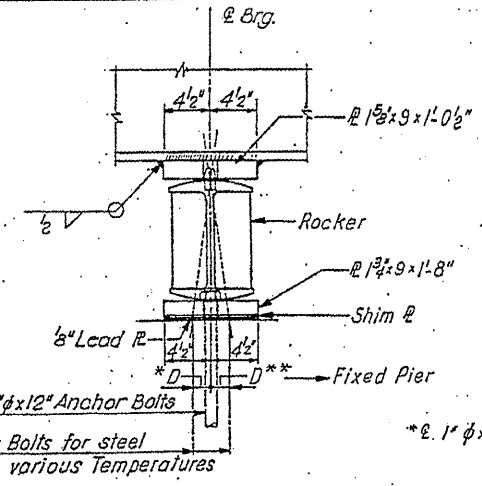
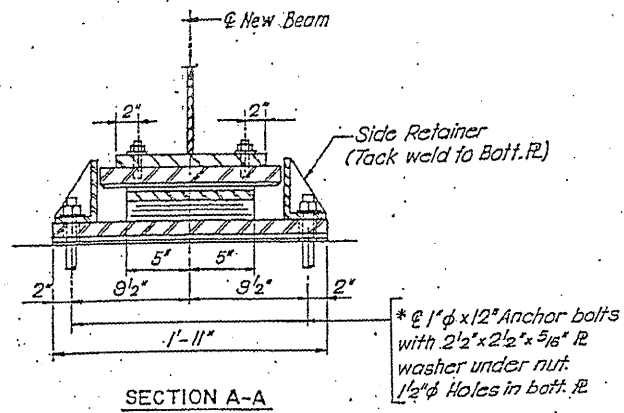
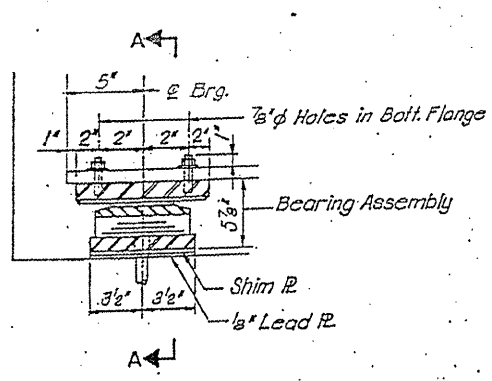
SHEET 2 OF 3

ILLINOIS DEPARTMENT OF  
TRANSPORTATION

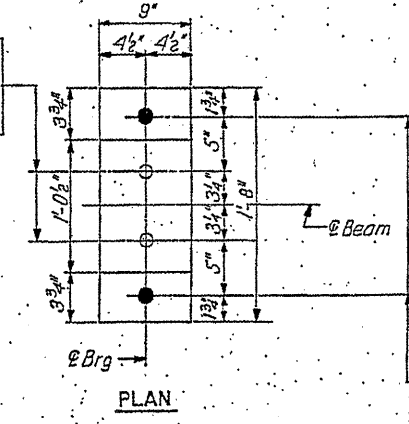
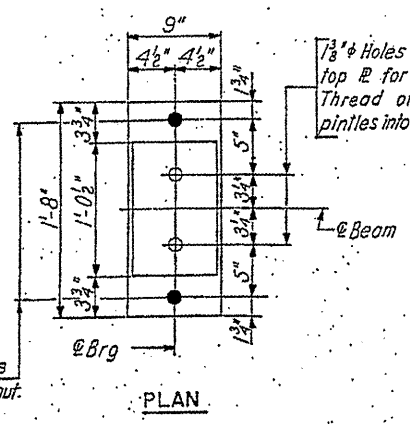
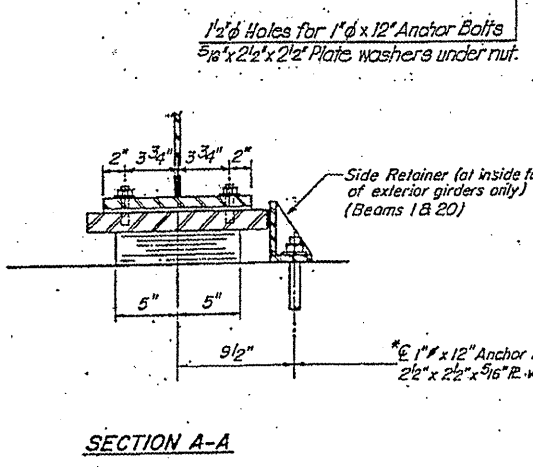
EXISTING BRIDGE PLAN  
SN 016-0086 (BRIDGE 3)

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
FAI 290	2011-047-BP	COOK	31	18

CONTRACT NO. 60P57

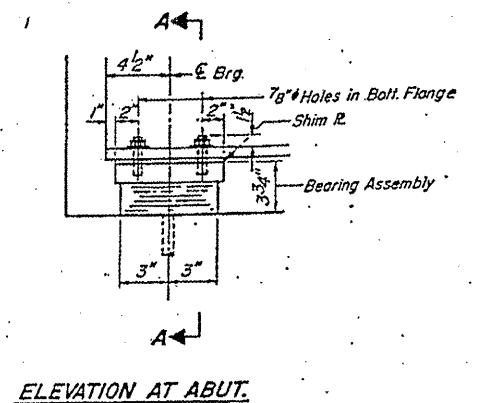
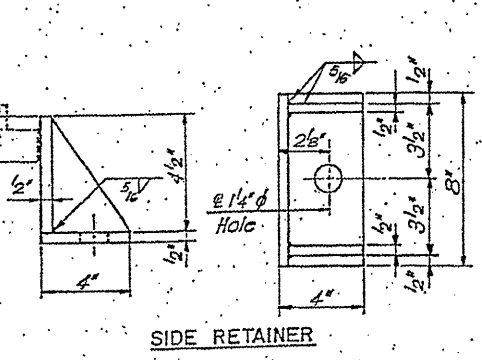


FOR INFORMATION ONLY

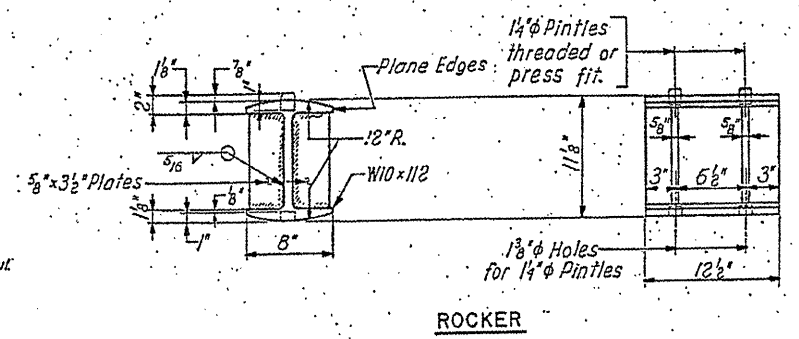
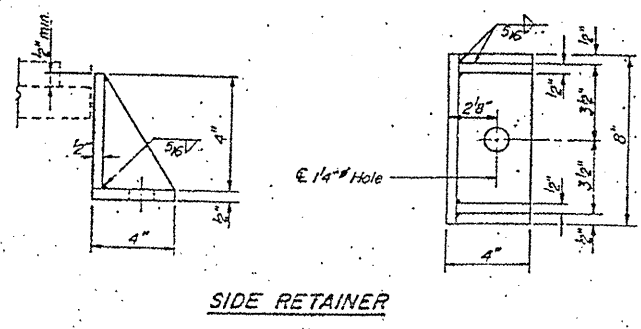
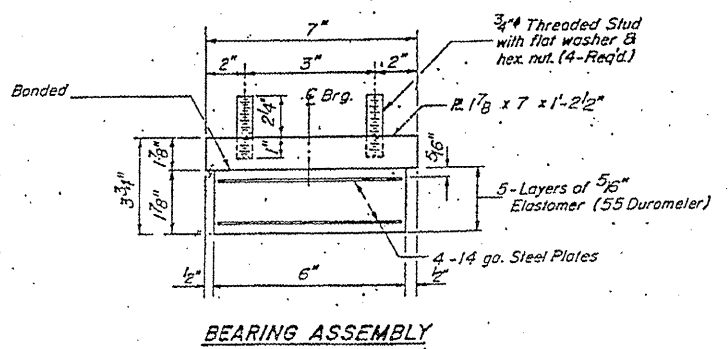
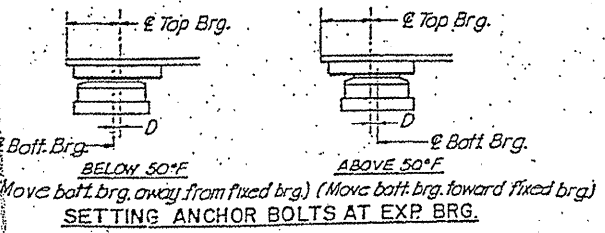


1 3/8" φ Holes - 1" deep in top R for 1 1/4" φ Pintles. Thread or press fit pintles into bottom R.

1 1/2" φ Holes for 1" φ Anchor Bolts - 2 1/2" x 2 1/2" x 5/16" Plate washer under nut.



TYPE I ELASTOMERIC EXP. BRG. AT EAST ABUT. (NO. REQD. 2)



SHEET 3 OF 3

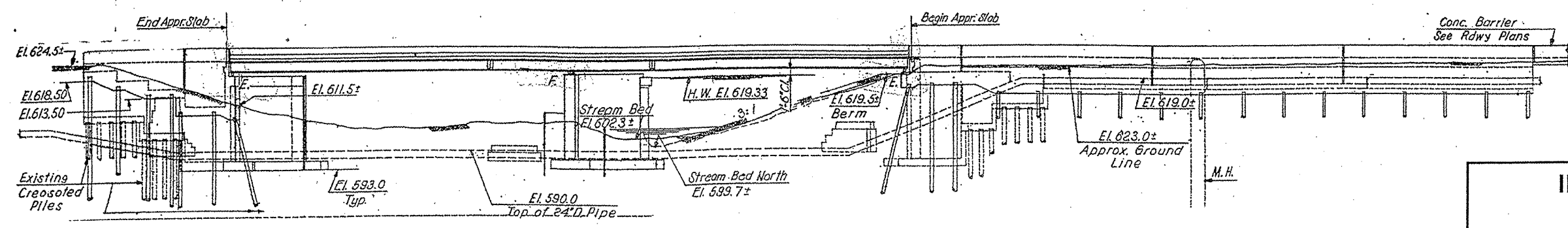
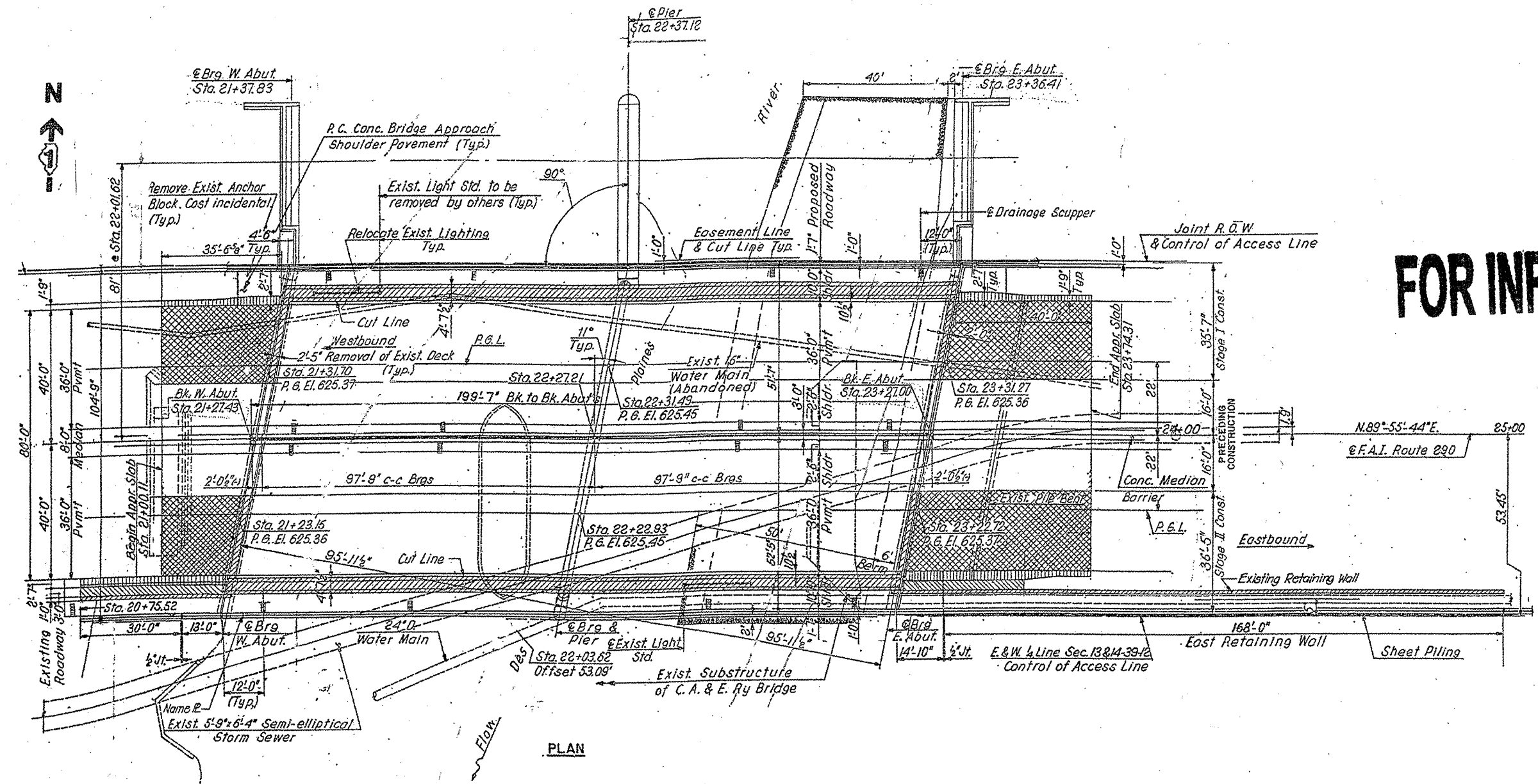
ILLINOIS DEPARTMENT OF TRANSPORTATION  
EXISTING BRIDGE PLAN  
SN 016-0086 (BRIDGE 3)



ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
FAI 290	2011-047-BP	COOK	31	17

CONTRACT NO. 60P57

**FOR INFORMATION ONLY**



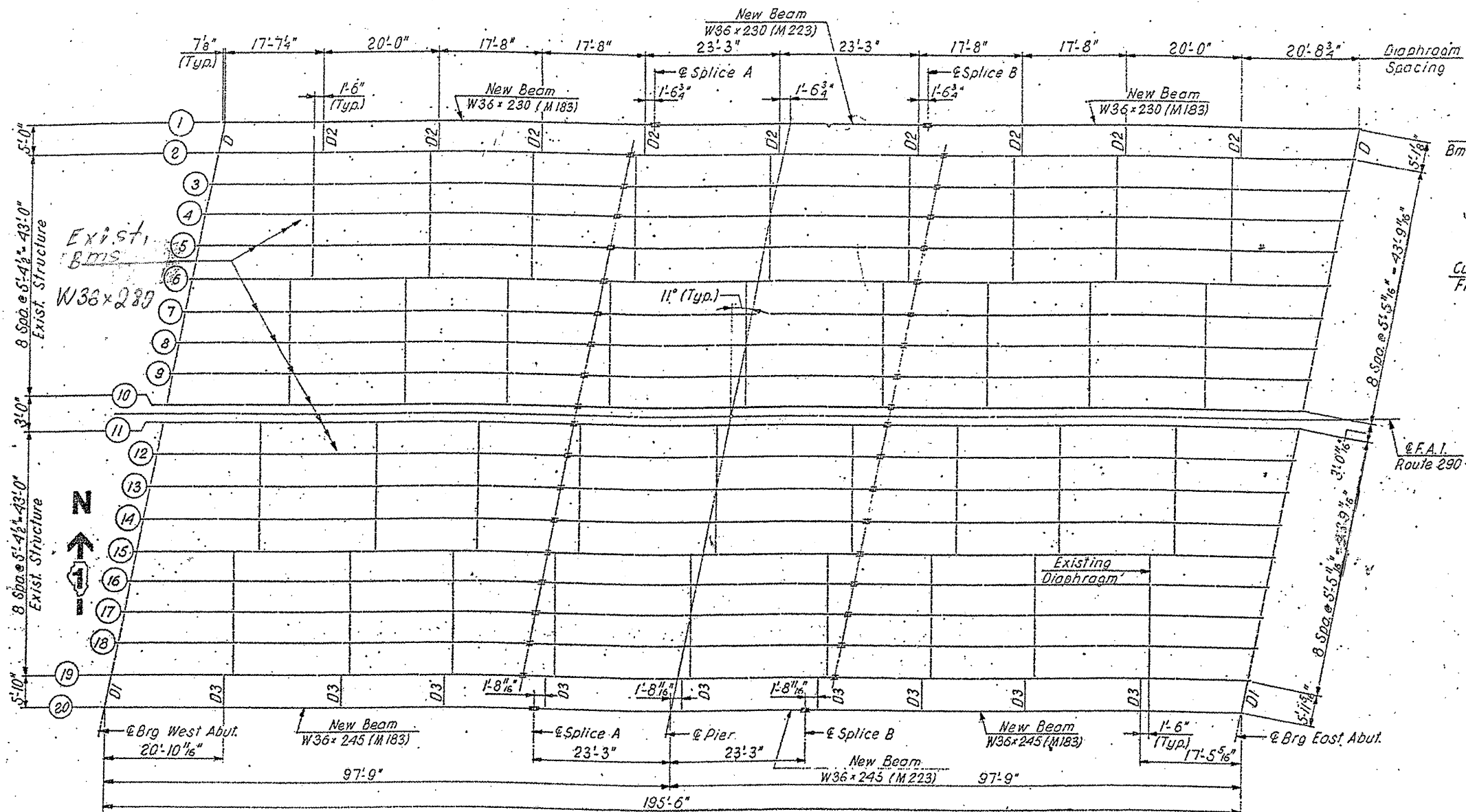
SHEET 1 OF 4

ILLINOIS DEPARTMENT OF  
TRANSPORTATION

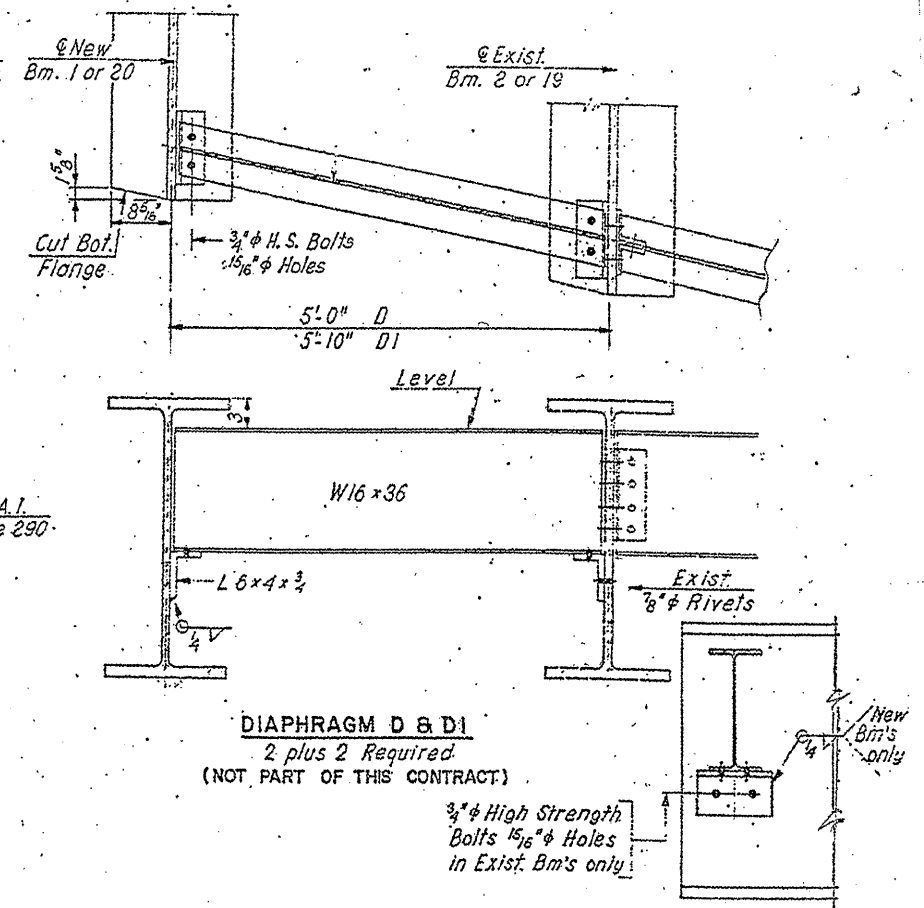
EXISTING BRIDGE PLAN  
SN 016-0090 (BRIDGE 4)

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
FAI 290	2011-047-BP	COOK	31	18

CONTRACT NO. 60P57



FRAMING PLAN



**FOR INFORMATION ONLY**

EXISTING DIAPHRAGMS ARE W16X36

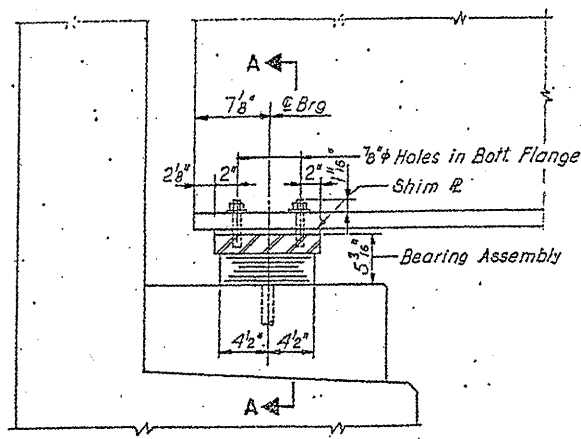
SHEET 2 OF 4

ILLINOIS DEPARTMENT OF  
TRANSPORTATION

EXISTING BRIDGE PLAN  
SN 016-0090 (BRIDGE 4)

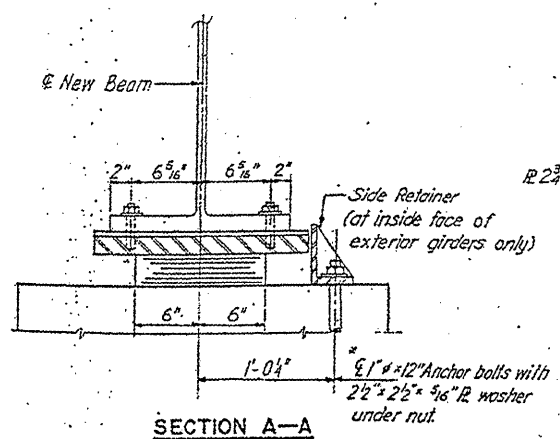
ROUTE FAI 290	SECTION 2011-047-BP	COUNTY COOK	TOTAL SHEETS 31	SHEET NUMBER 19
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CONTRACT NO. 60P57

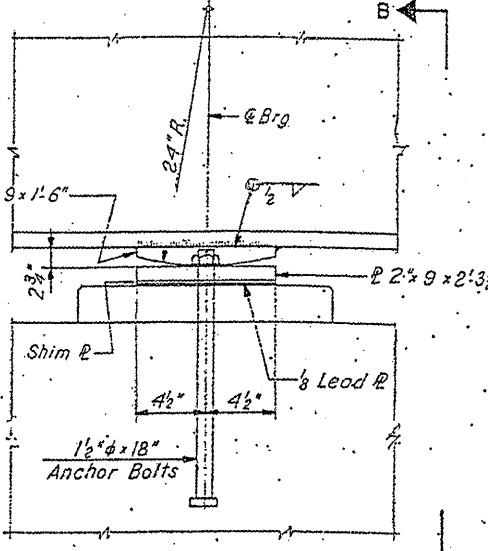


SECTION AT ABUT.

**TYPE I ELASTOMERIC EXP BRG.**  
4 Required  
(NOT PART OF THIS CONTRACT)

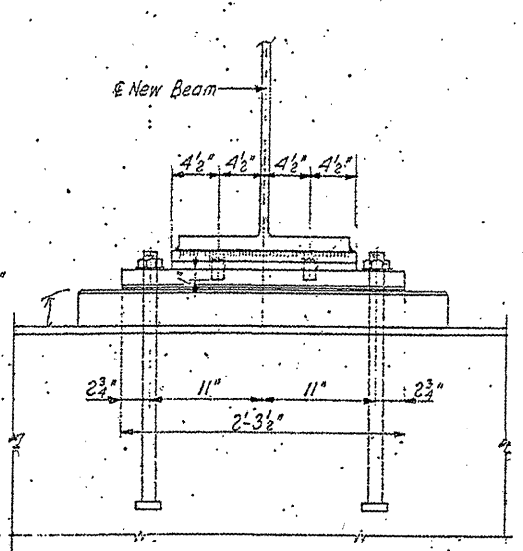


SECTION A-A  
*\*Note: After girders have been erected holes of expansion bearings shall be drilled and anchor bolts grouted in place. Anchor bolts of fixed bearings may be built into the masonry.*

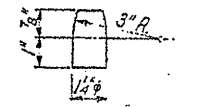


ELEVATION AT PIER

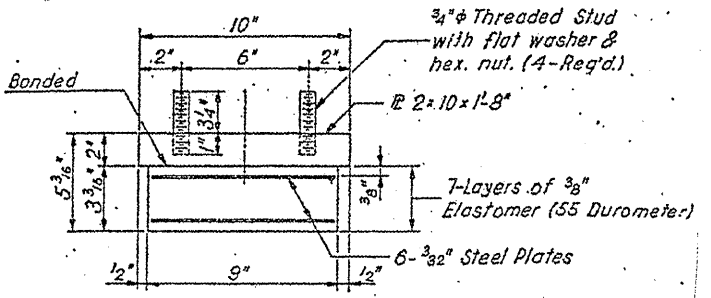
**FIXED BEARING**  
2 Required  
(NOT PART OF THIS CONTRACT)



SECTION B-B

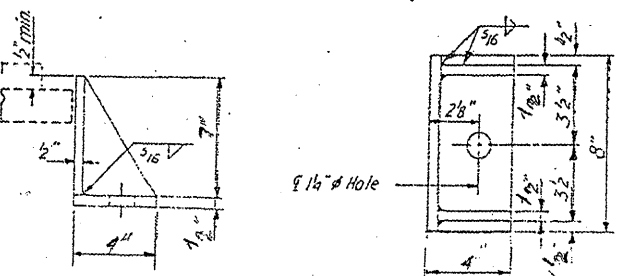


DETAIL OF PINTLE



BEARING ASSEMBLY

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



SIDE RETAINER

**FOR INFORMATION ONLY**

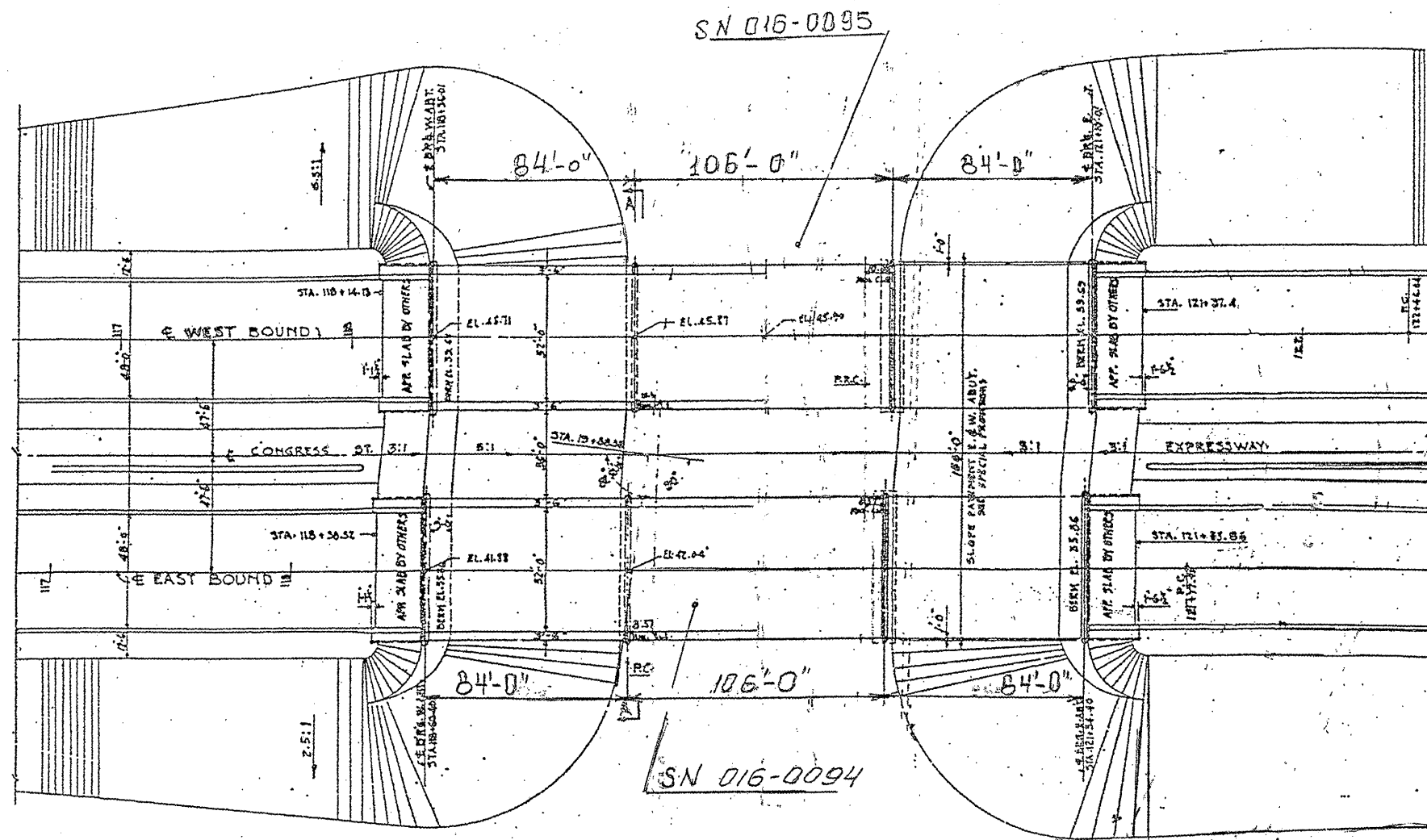
ILLINOIS DEPARTMENT OF  
TRANSPORTATION

EXISTING BRIDGE PLAN  
SN 016-0090 (BRIDGE 4)

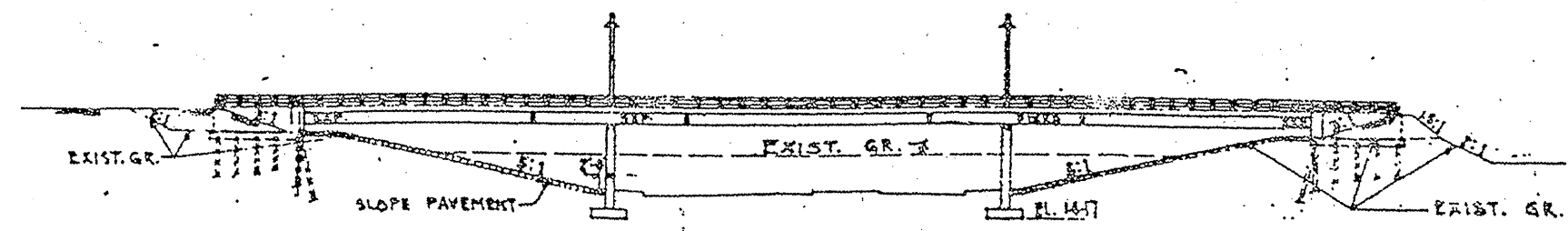


ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
FAI 290	2011-047-BP	COOK	31	21

CONTRACT NO. 60P57



PLAN



ELEVATION

**FOR INFORMATION ONLY**

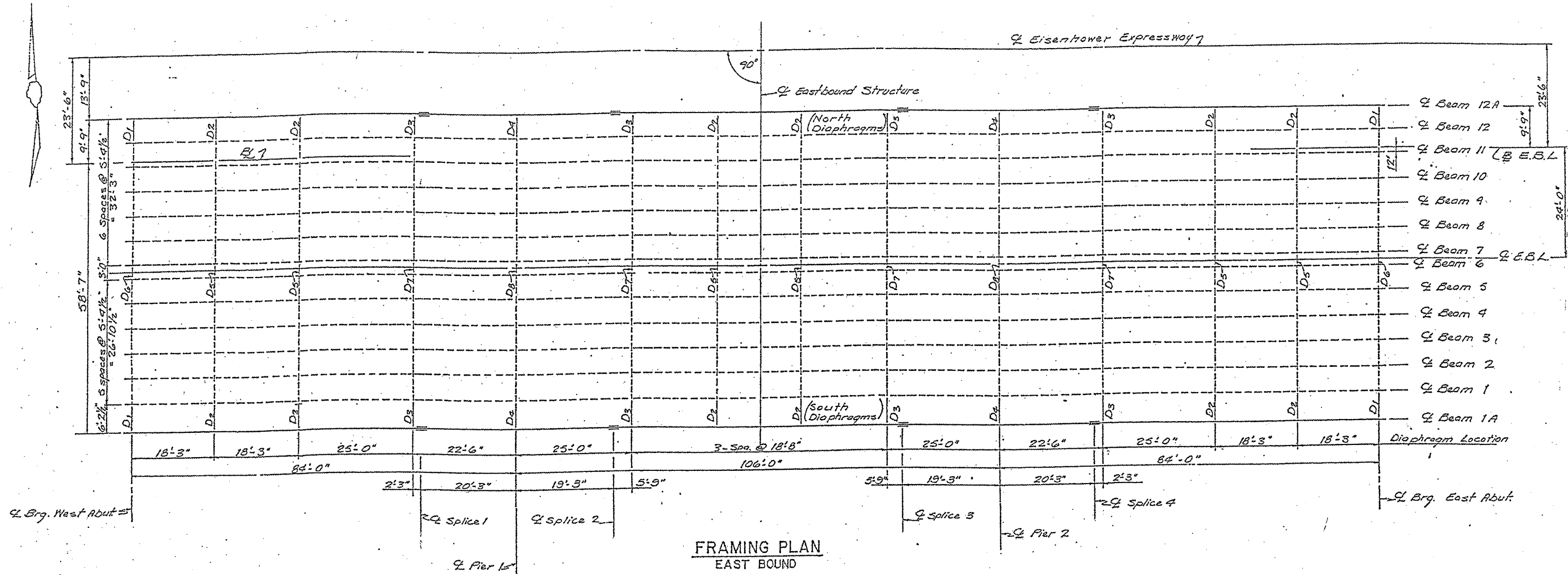
SHEET 1 OF 5

ILLINOIS DEPARTMENT OF  
TRANSPORTATION

EXISTING BRIDGE PLAN  
SN 016-0094, 0095 (BRIDGE 5 & 6)

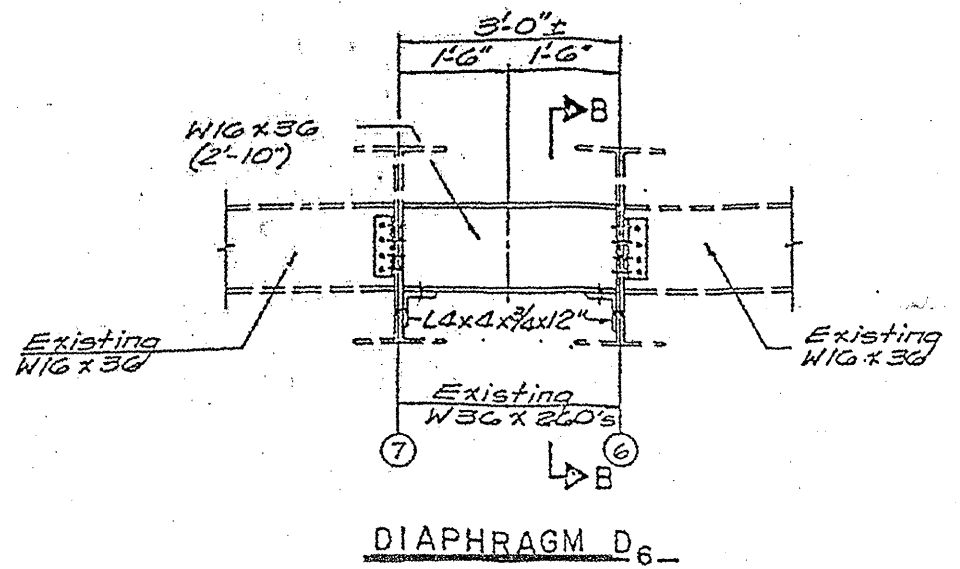
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FAI 290	2011-047-BP	COOK	31	22

CONTRACT NO. 60P57



FRAMING PLAN  
EAST BOUND

ALL BEAMS ARE W36x260



DIAPHRAGM D6

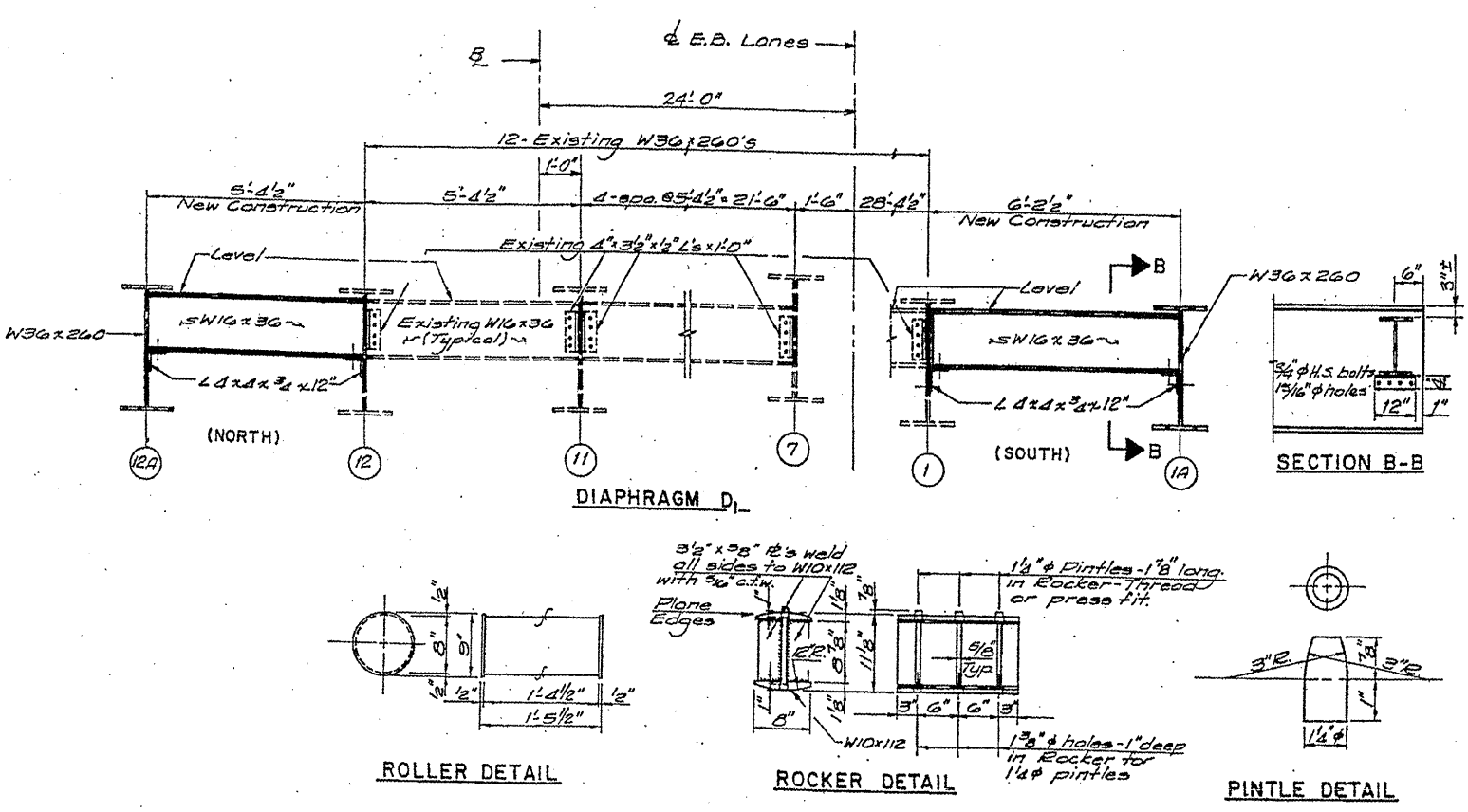
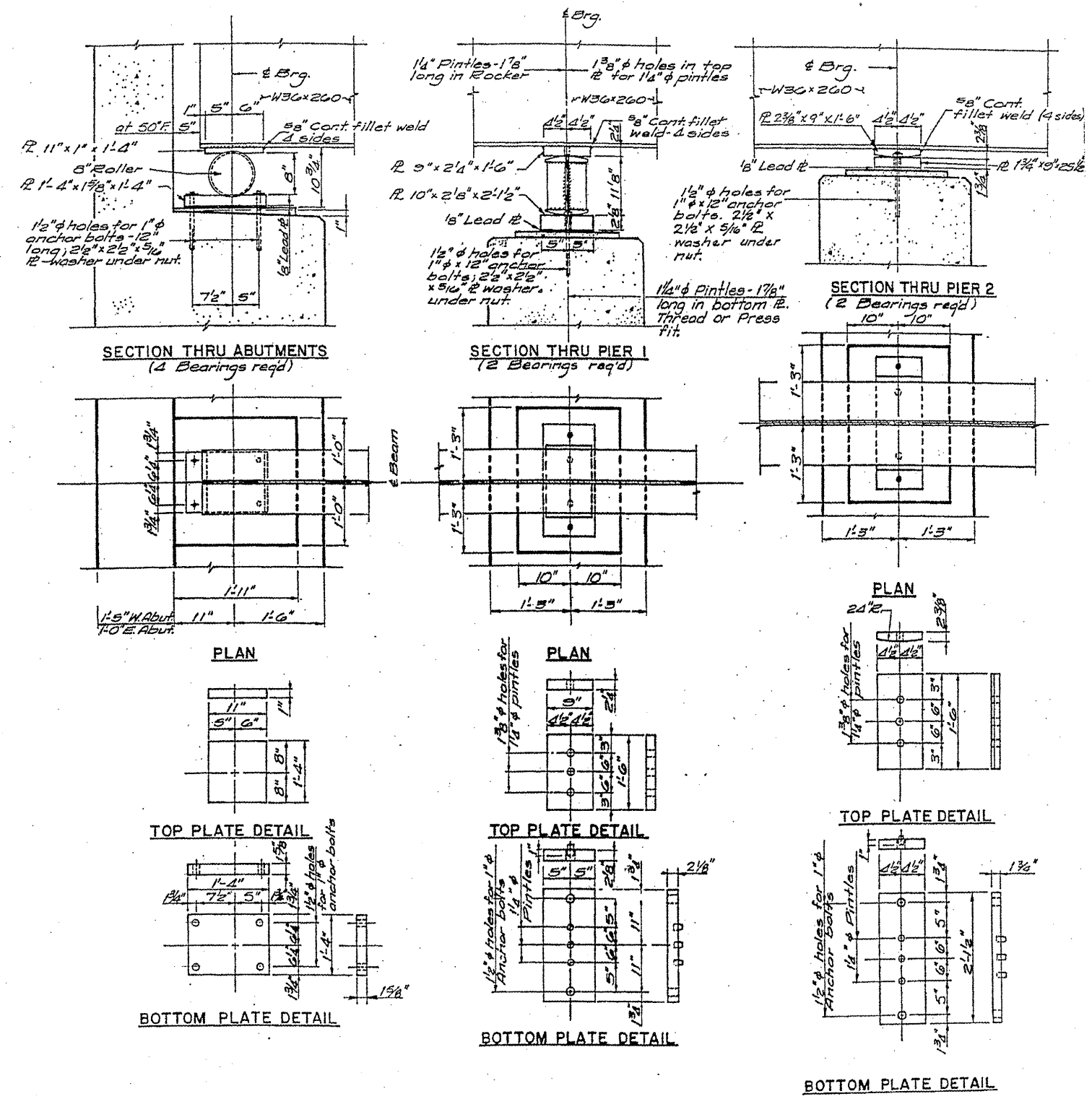
**FOR INFORMATION ONLY**

SHEET 2 OF 5

ILLINOIS DEPARTMENT OF  
TRANSPORTATION  
  
EXISTING BRIDGE PLAN  
SN 016-0094 (BRIDGE 5)

ROUTE FAI 290	SECTION 2011-047-BP	COUNTY COOK	TOTAL SHEETS 31	SHEET NUMBER 23
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CONTRACT NO. 60P57



**FOR INFORMATION ONLY**

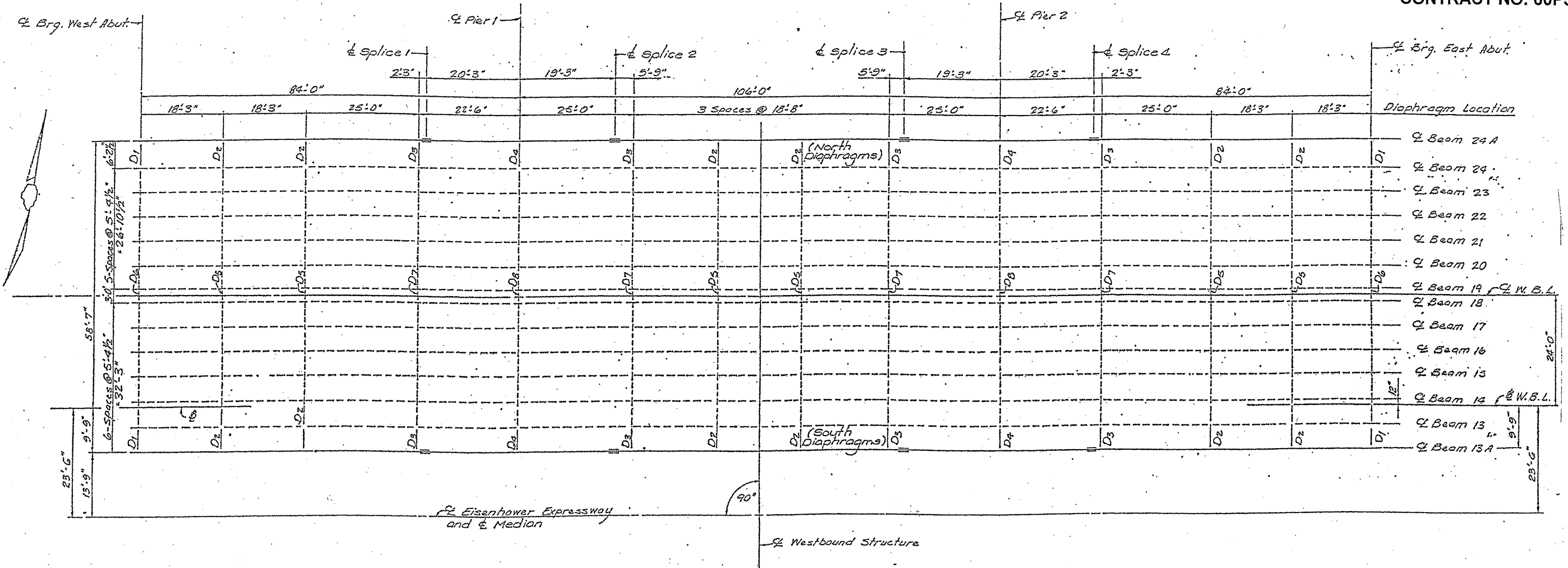
SHEET 3 OF 5

ILLINOIS DEPARTMENT OF  
TRANSPORTATION

EXISTING BRIDGE PLAN  
SN 016-0094 (BRIDGE 5)

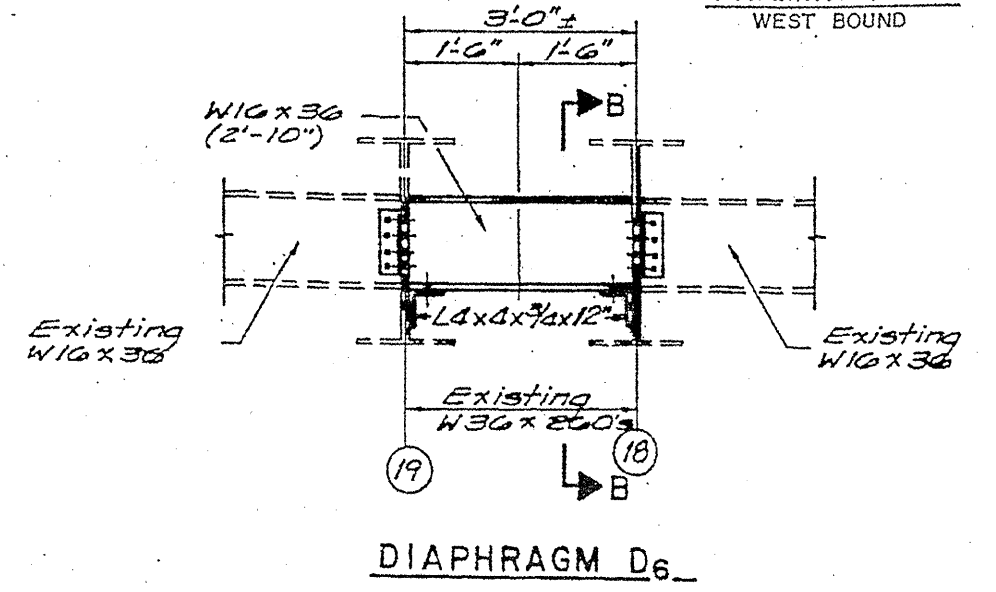
ROUTE FAI 290	SECTION 2011-047-BP	COUNTY COOK	TOTAL SHEETS 31	SHEET NUMBER 24
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CONTRACT NO. 60P57



FRAMING PLAN  
WEST BOUND

ALL BEAMS ARE W36x260



DIAPHRAGM D6

**FOR INFORMATION ONLY**

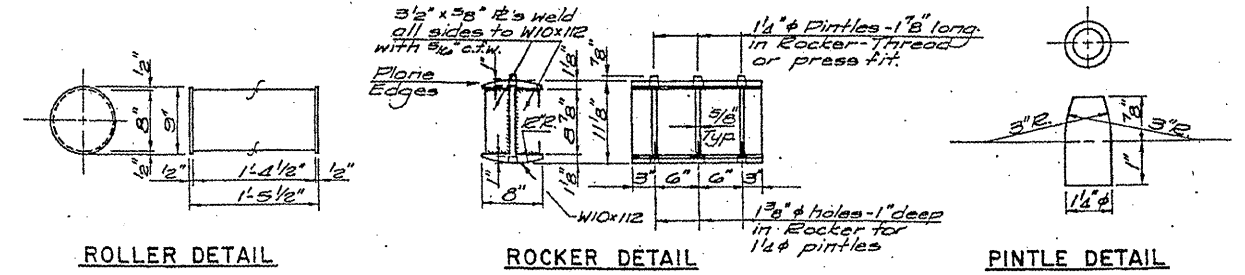
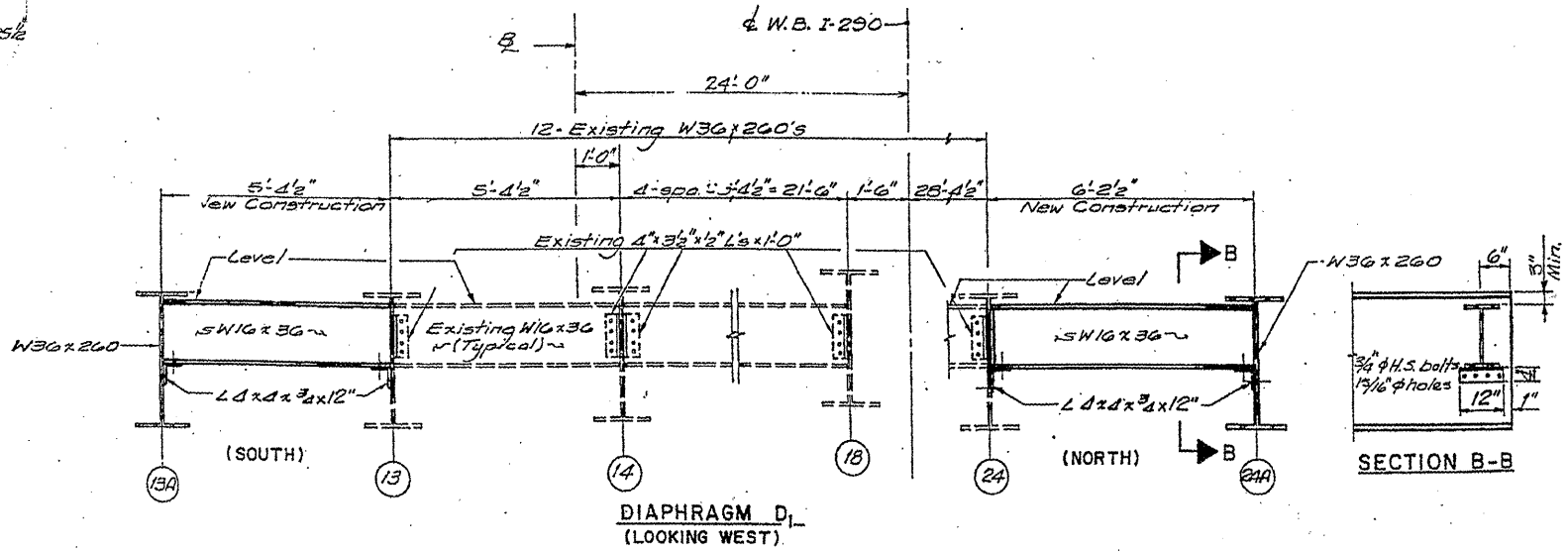
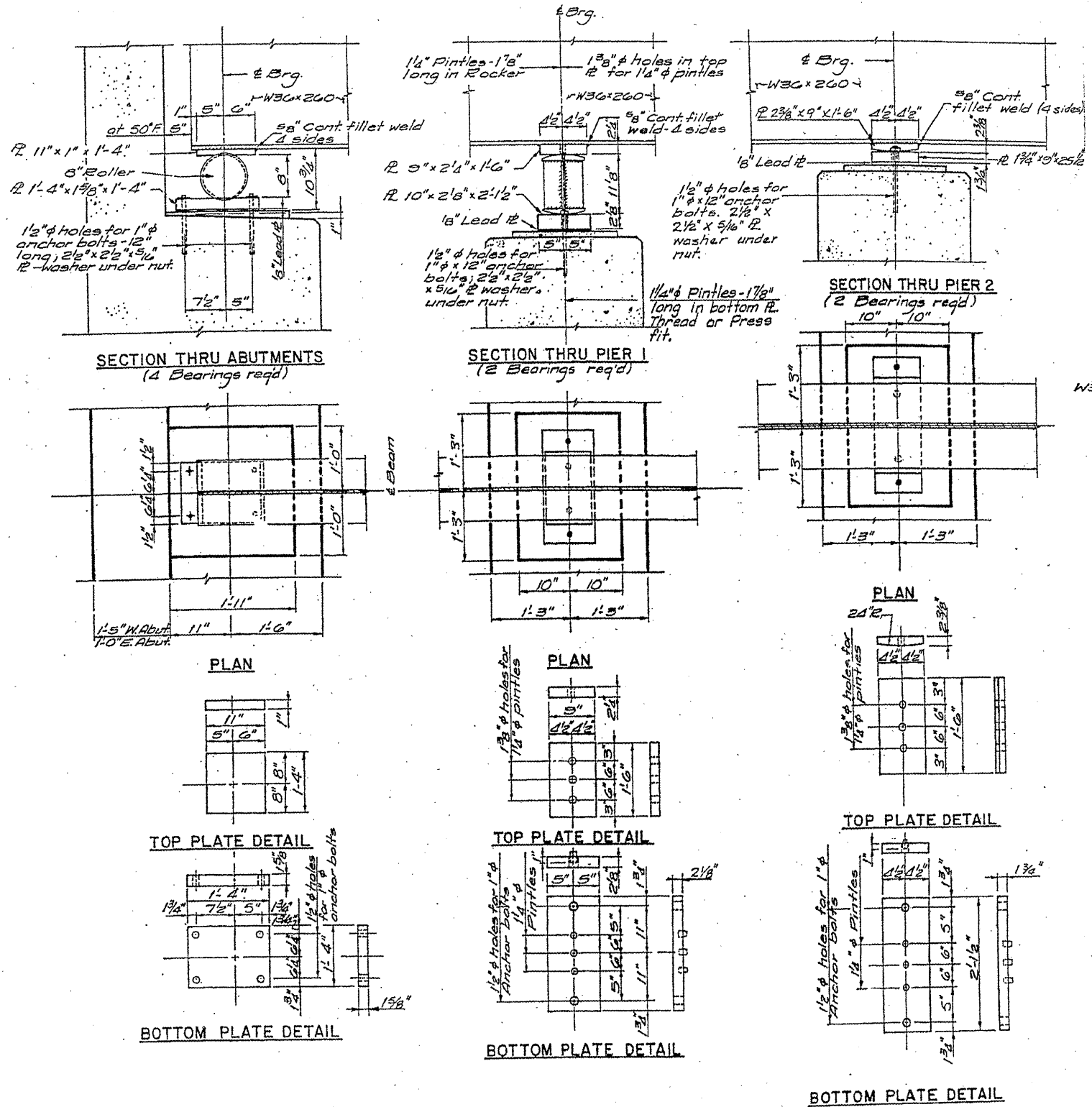
SHEET 4 OF 5

ILLINOIS DEPARTMENT OF  
TRANSPORTATION  
  
EXISTING BRIDGE PLAN  
SN 016-0095 (BRIDGE 6)



ROUTE FAI 290	SECTION 2011-047-BP	COUNTY COOK	TOTAL SHEETS 31	SHEET NUMBER 25
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CONTRACT NO. 60P57



**FOR INFORMATION ONLY**

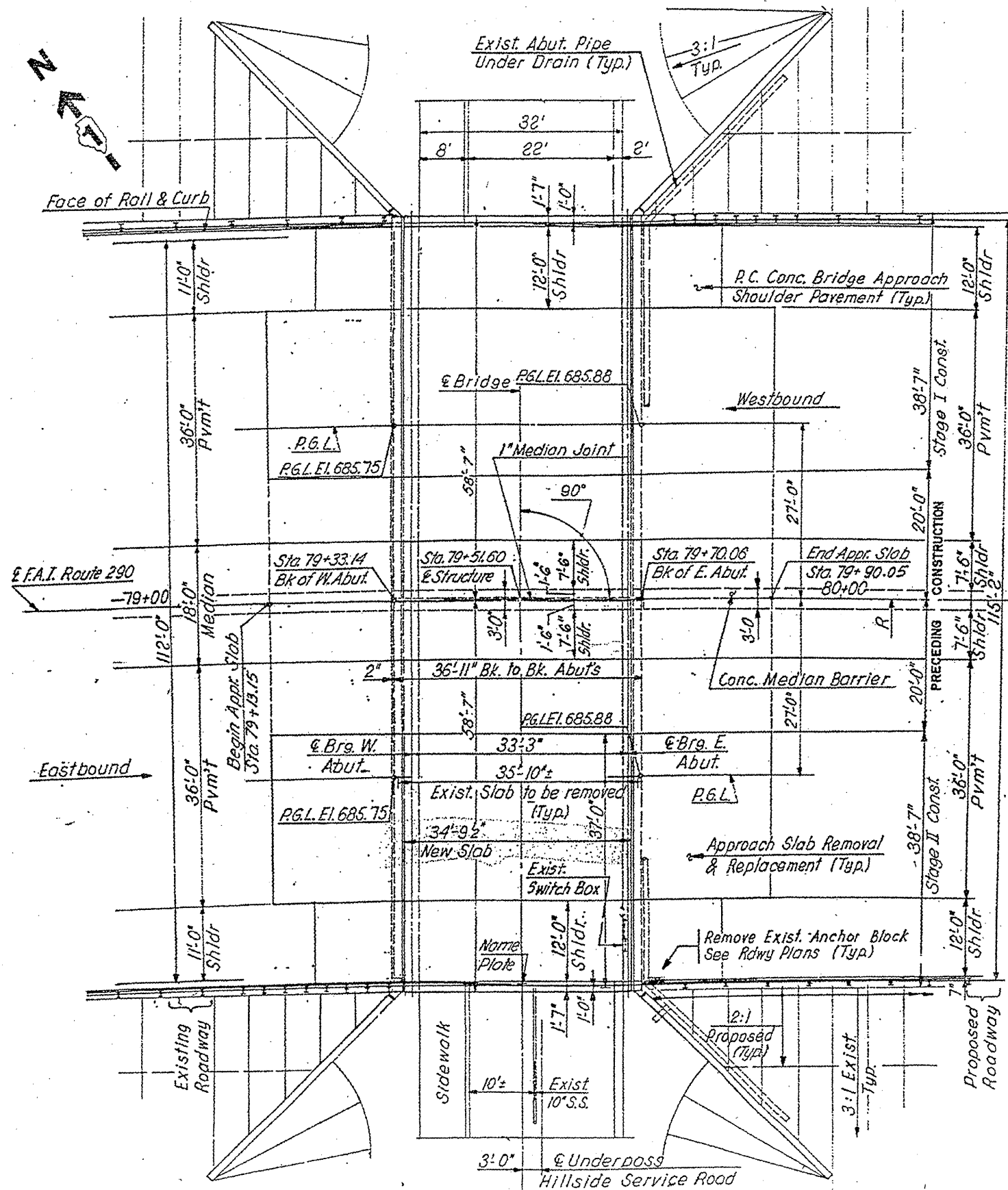
SHEET 5 OF 5

ILLINOIS DEPARTMENT OF  
TRANSPORTATION

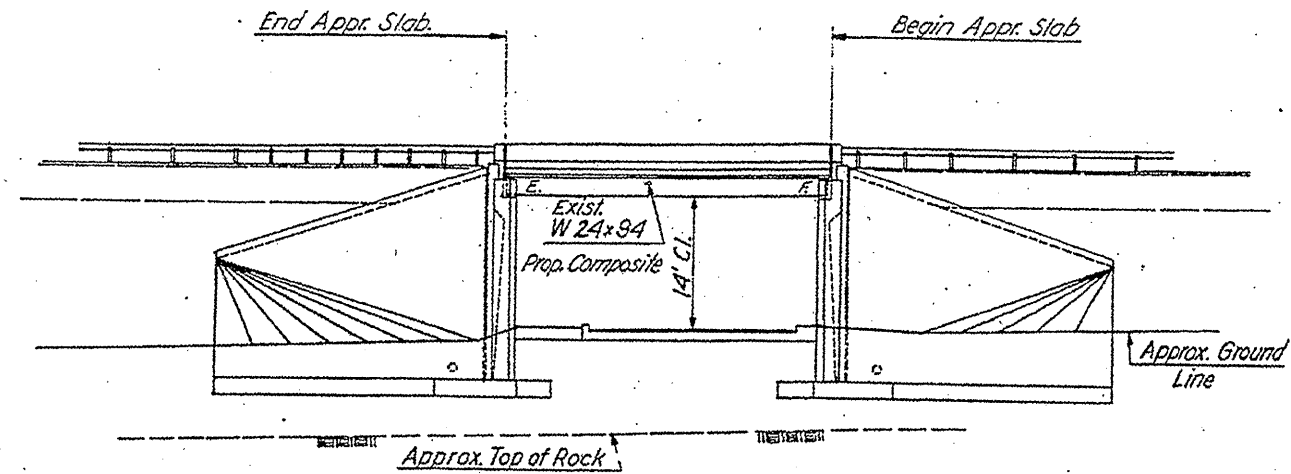
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SN 016-0095 (BRIDGE 6)

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
FAI 290	2011-047-BP	COOK	31	26

CONTRACT NO. 60P57



PLAN



ELEVATION

FOR INFORMATION ONLY

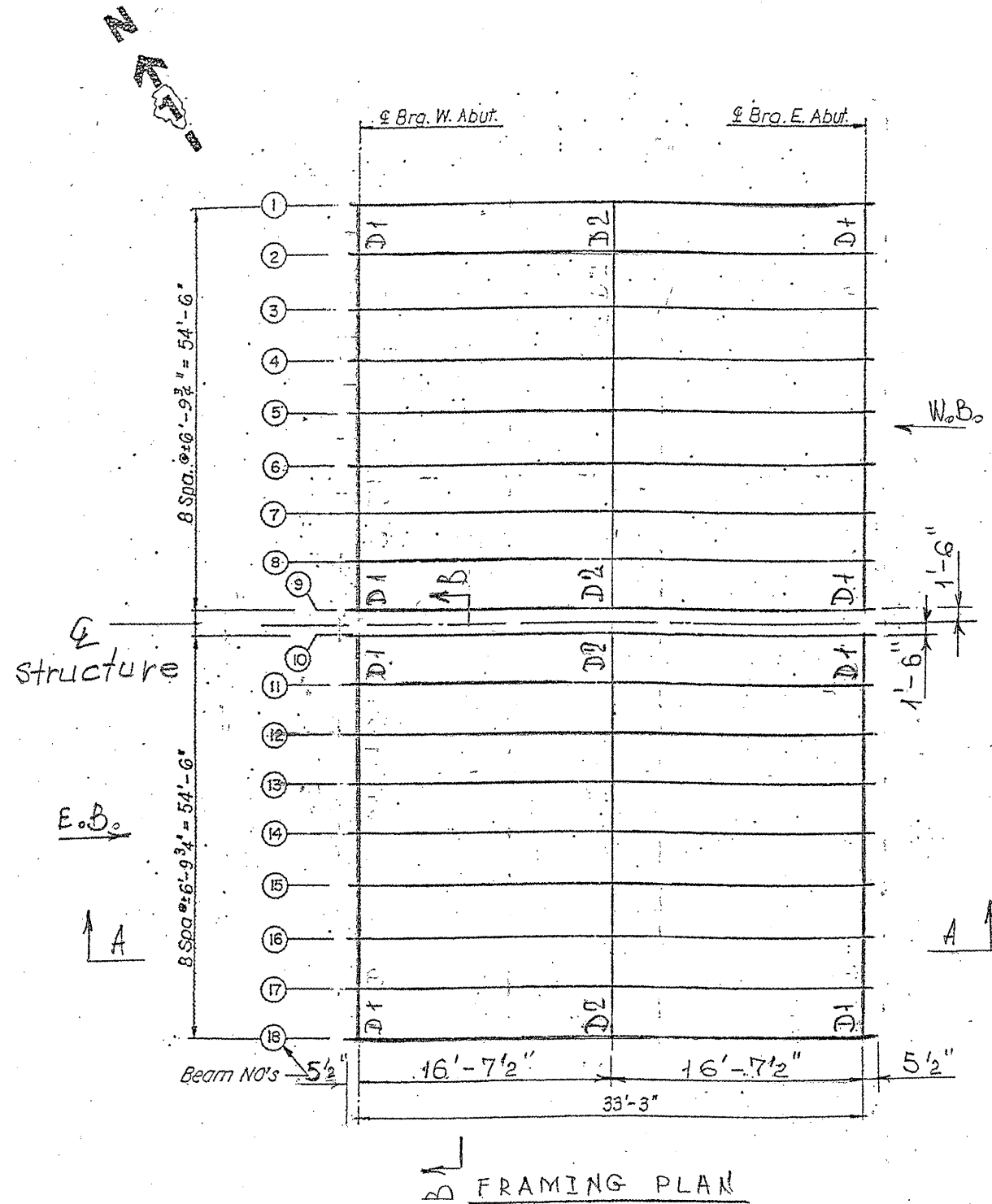
SHEET 1 OF 2

ILLINOIS DEPARTMENT OF  
TRANSPORTATION

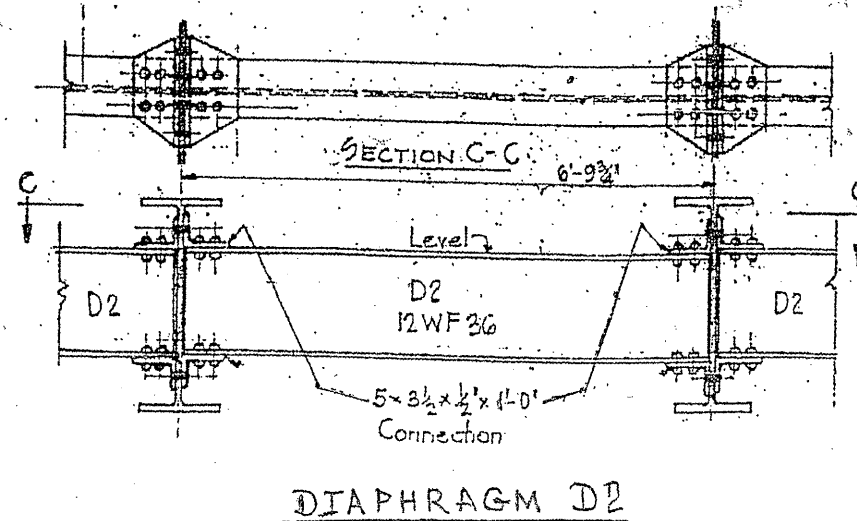
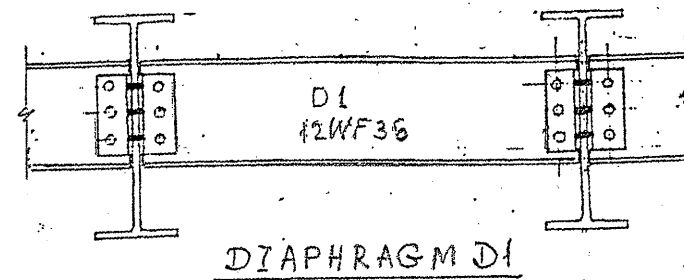
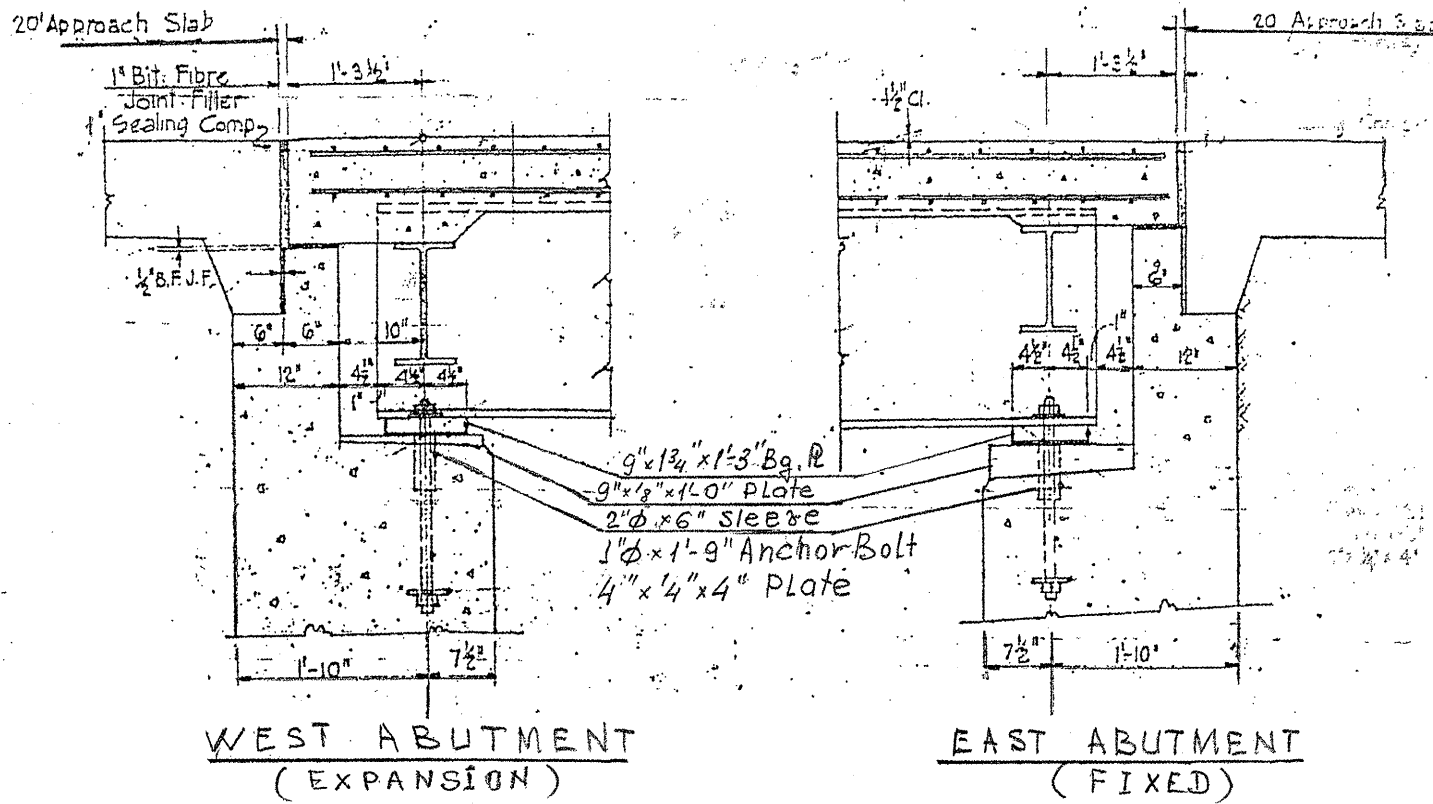
EXISTING BRIDGE PLAN  
SN 016-0986 (BRIDGE 7)

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
FAI 290	2011-047-BP	COOK	31	27

CONTRACT NO. 60P57



ALL DIAPHRAGMS ARE 12WF 36.  
ALL BEAMS ARE 24WF 94.

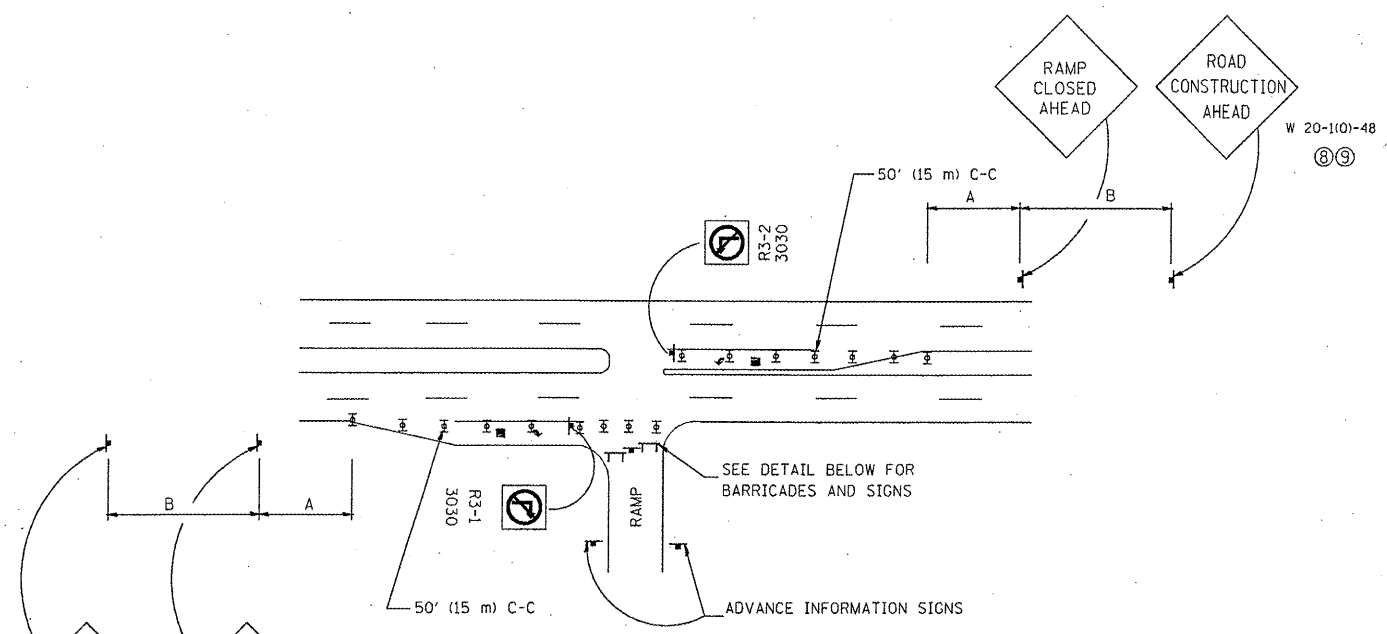


**FOR INFORMATION ONLY**

SHEET 2 OF 2

ILLINOIS DEPARTMENT OF  
TRANSPORTATION

EXISTING BRIDGE PLAN  
SN 016-0986 (BRIDGE 7)

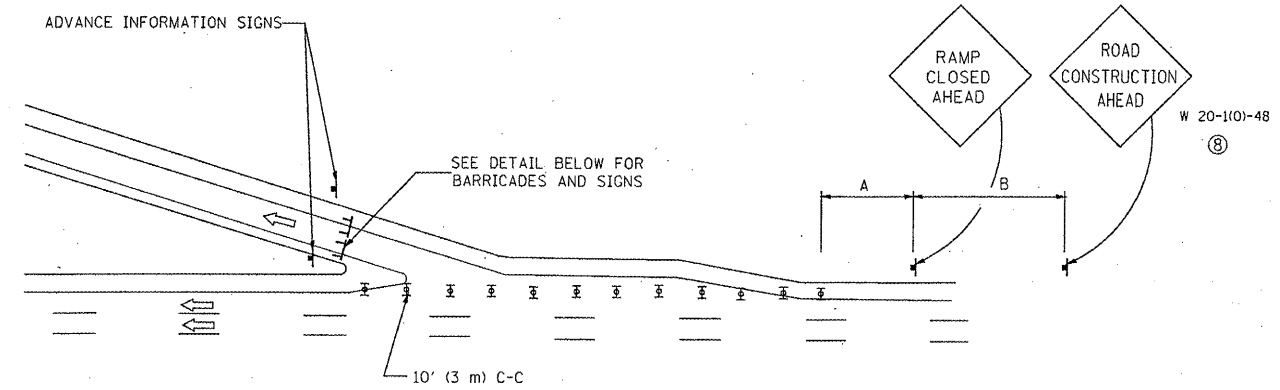
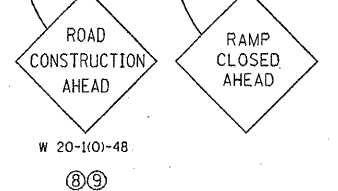


**ENTRANCE RAMP CLOSURE**

**SIGN SPACING TABLE**

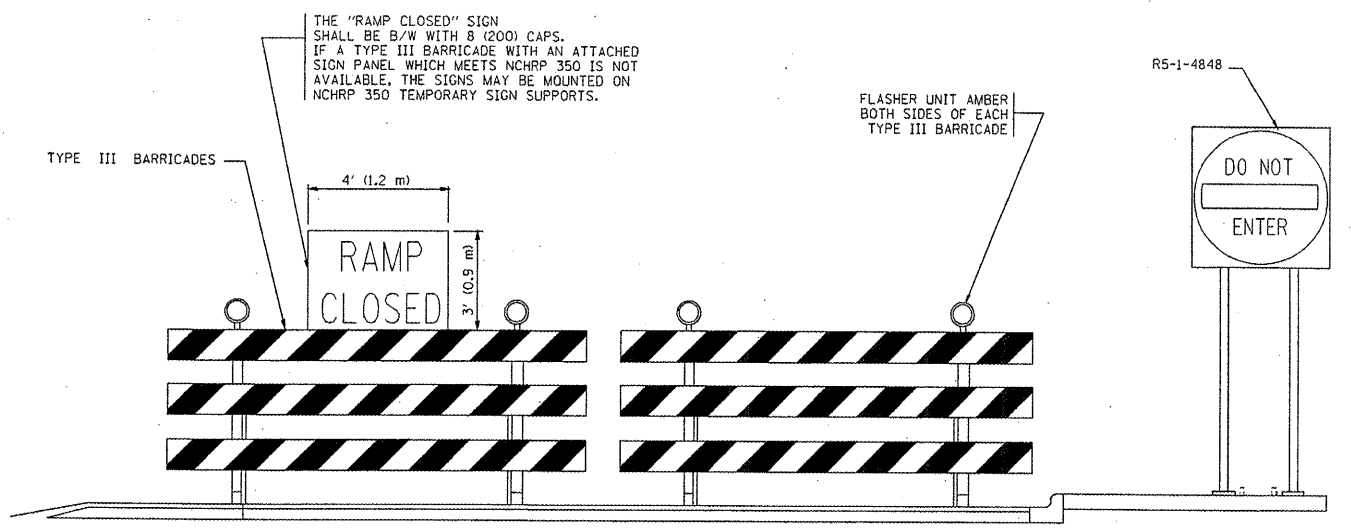
FACILITY	DISTANCE BETWEEN SIGNS	
	A	B
EXPRESSWAY >24 HOURS	1000' (300 m)	1500' (450 m)
EXPRESSWAY ≤24 HOURS	500' (150 m)	500' (150 m)
ARTERIAL ≥45 MPH	350' (100 m)	350' (100 m)
ARTERIAL <45 MPH	150' (45 m)	150' (45 m)

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

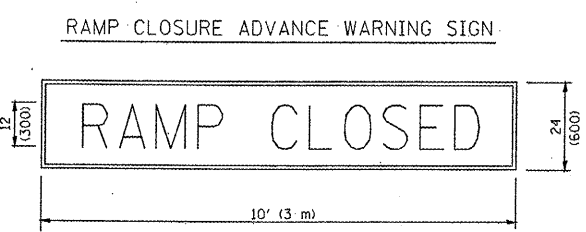


**EXIT RAMP CLOSURE**

- SYMBOLS**
- ☐ TYPE II BARRICADE, DRUM OR VERTICAL BARRICADE WITH STEADY BURN MONO-DIRECTIONAL LIGHT
  - ☐ TYPE III BARRICADE WITH FLASHING LIGHT

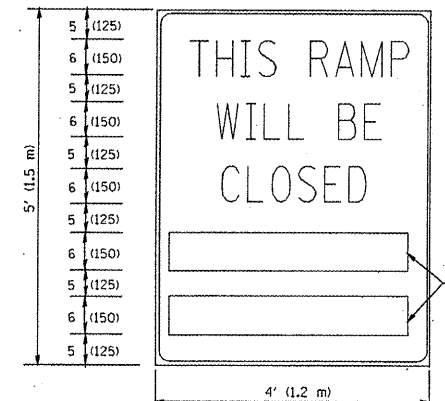


**DETAIL FOR REQUIRED BARRICADES & SIGNS**



BLACK LEGEND ON ORANGE REFLECTORIZED BACKGROUND  
1 (25) BORDER  
THESE SIGNS ARE REQUIRED ON ALL THE EXIT GUIDE SIGNS FOR THE CLOSED EXIT RAMPS.

**RAMP CLOSURE ADVANCE INFORMATION SIGN**



BLACK LEGEND ON WHITE REFLECTORIZED BACKGROUND  
1/2 (12) BORDER  
THESE BLANK AREAS SHALL BE FILLED WITH THE DATES AND THE TIME THAT THE RAMP WILL BE CLOSED.

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

**GENERAL NOTES:**

- ① CONES MAY BE SUBSTITUTED FOR DRUMS OR TYPE II BARRICADES DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (700) HIGH.
- ② STEADY BURN LIGHTS WILL NOT BE REQUIRED FOR DAY OPERATIONS.
- ③ A FLAGGER SHALL BE POSITIONED AT EACH CLOSED RAMP THAT IS OPEN TO CONSTRUCTION VEHICLES.
- ④ ALL ROUTE MARKERS AND TRAILBLAZER ASSEMBLIES WHICH DIRECT MOTORISTS TO A CLOSED ENTRANCE RAMP SHALL BE COVERED.
- ⑤ THE SIGNING AND BARRICADING WHICH IS REQUIRED BY THIS DETAIL SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS).
- ⑥ AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL RAMP CLOSURES.
- ⑦ THE RAMP CLOSURE ADVANCE INFORMATION SIGNS SHALL BE ERECTED IF THE CLOSURE TIME EXCEEDS TWENTY-FOUR (24) HOURS. ADDITIONAL ADVANCE WARNING SIGNS ON EXIT GUIDE SIGNING WILL BE REQUIRED FOR EXIT RAMP CLOSURES THAT EXCEED TWENTY-FOUR (24) HOURS IN LENGTH.
- ⑧ ROAD CONSTRUCTION AHEAD SIGNS MAY BE OMITTED WHEN THIS DETAIL IS USED IN CONJUNCTION WITH OTHER TRAFFIC CONTROL THAT ALREADY INCLUDES A ROAD CONSTRUCTION AHEAD SIGN.
- ⑨ ARTERIAL ROAD CONSTRUCTION AHEAD SIGNS MAY BE OMITTED ON CLOSURES LESS THAN 24 HOURS IN DURATION.

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

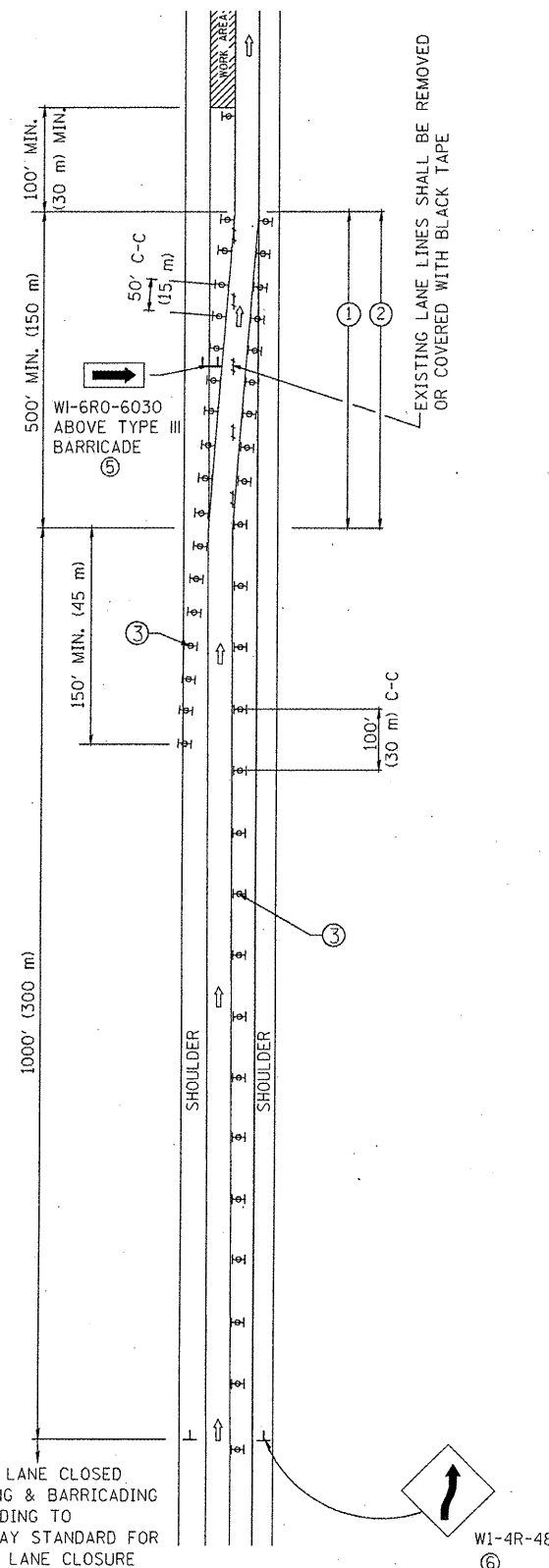
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		DRAWN -	REVISED - JAF 02-06
		CHECKED -	REVISED - SPB 01-07
		DATE - 02-83	REVISED - SPB 12-09

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

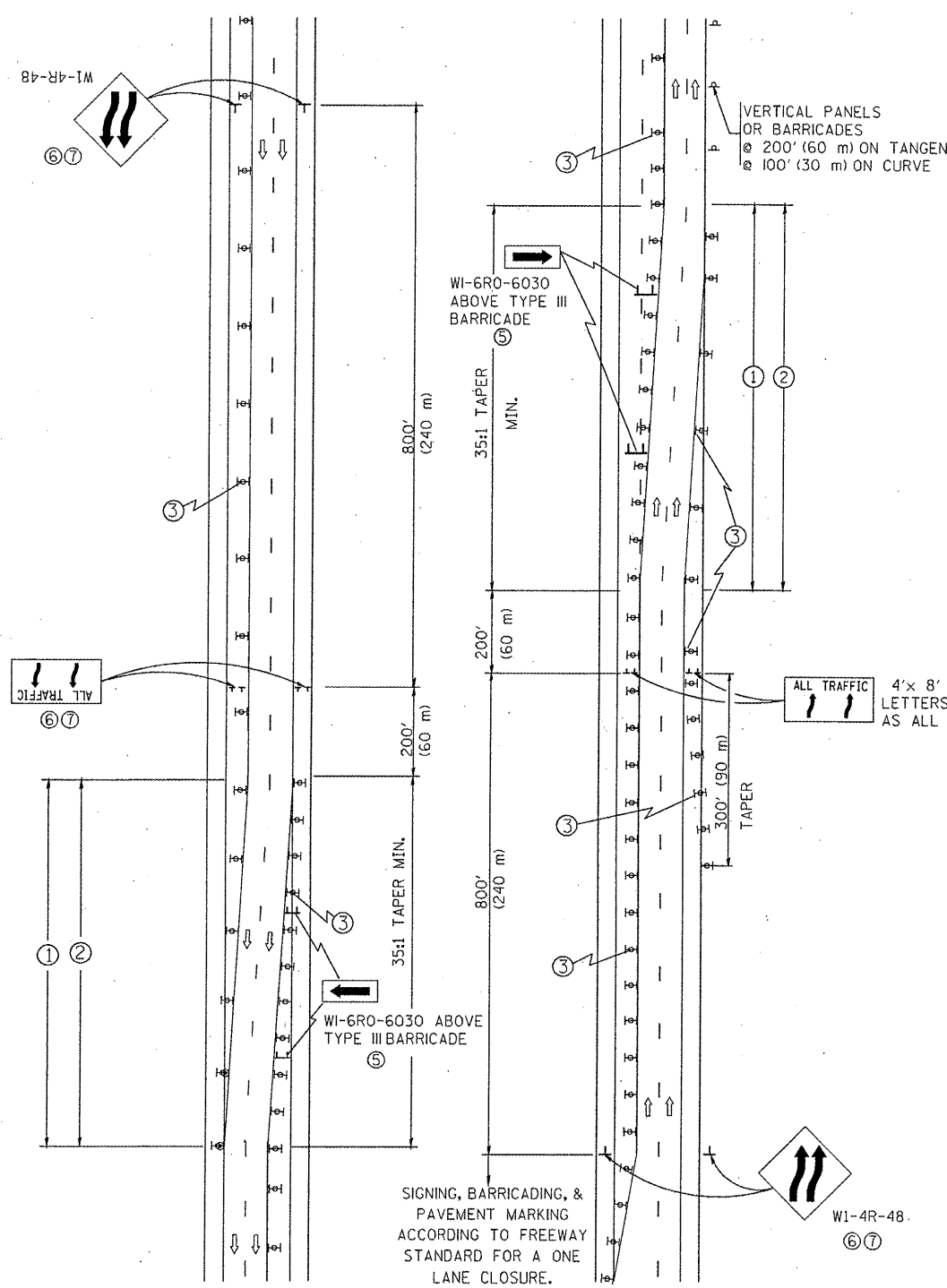
<b>FREWAY ENTRANCE AND EXIT RAMP CLOSURE DETAILS</b>	
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.R. NO. 290	SECTION 2044-047-BP	COUNTY COOK	TOTAL SHEETS 31	SHEET NO. 28
TC-08		CONTRACT NO. 60P57		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

# SINGLE LANE WEAVE



# MULTI-LANE WEAVE

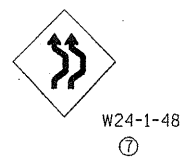


### GENERAL NOTES

- EXISTING CONFLICTING PAVEMENT MARKING LINES SHALL BE REMOVED. PAVEMENT MARKING REMOVAL SHALL NOT BE REQUIRED FOR SINGLE LANE WEAVES UNDER 24 HOURS IN DURATION.
- CONTINUOUS REFLECTIVE TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER AND FOR 300' (90 m) ALONG SIDE THE WORK AREA WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS. THE LEFT EDGE LINE SHALL BE YELLOW AND THE RIGHT EDGE LINE SHALL BE WHITE. FOR MULTI-LANE WEAVES LANE LINES SHALL BE 5 INCH, 10'-30' (3 m-9 m) SKIP DASH, WHITE.
- PLASTIC DRUMS WITH STEADY BURN LIGHTS AT 50' (15 m) C-C SPACING IN TAPERS AND 100' (30 m) C-C SPACING IN TANGENTS.
- ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
- IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 IS NOT AVAILABLE, THE SIGNS MAY BE MOUNTED ON NCHRP 350 TEMPORARY SIGN SUPPORTS. TYPE III BARRICADES MAY BE OMITTED FOR SINGLE-LANE WEAVES UNDER 24-HOURS IN DURATION. W1-6 SIGNS WILL STILL BE REQUIRED. IF THE WIDTH OF OFFSET IS LESS THAN 6' THEN THE TYPE III BARRICADE WITH ATTACHED ARROW SIGN PANEL CAN BE ELIMINATED IN THE TAPER AREAS.
- WHEN THE LENGTH OF THE SHIFTED SEGMENT (DISTANCE BETWEEN WEAVE POINTS) IS LESS THAN 1500', DOUBLE REVERSE CURVE SIGNS (W24-1) SHOULD BE USED INSTEAD OF THE REVERSE CURVE (W1-4) SIGNS. ARROWS ON THE 4'X8' "ALL TRAFFIC" SIGNS SHALL BE THE SAME SHAPE.
- THE NUMBER OF ARROWS ON THESE SIGNS SHALL MATCH THE NUMBER OF LANES OPEN TO TRAFFIC.

### SYMBOLS

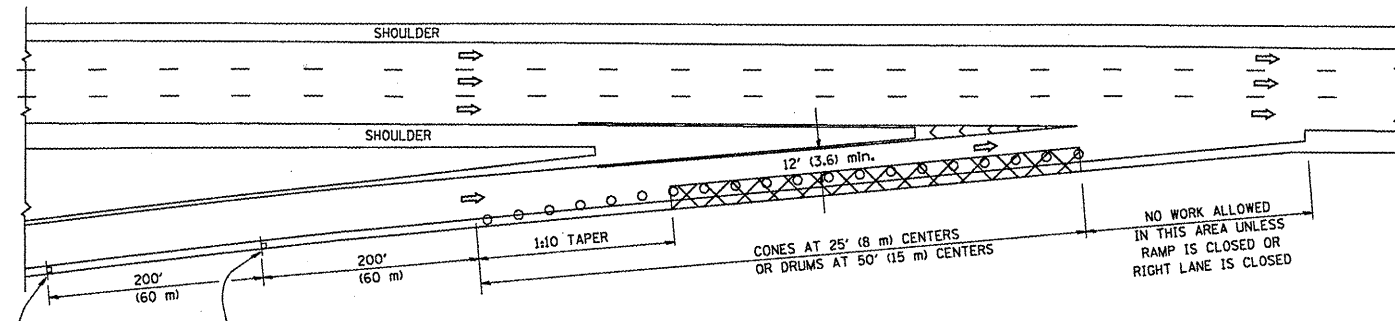
- DIRECTION OF TRAFFIC
- WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- TYPE II BARRICADE OR DRUM WITH MONO-DIRECTIONAL STEADY BURNING LIGHT



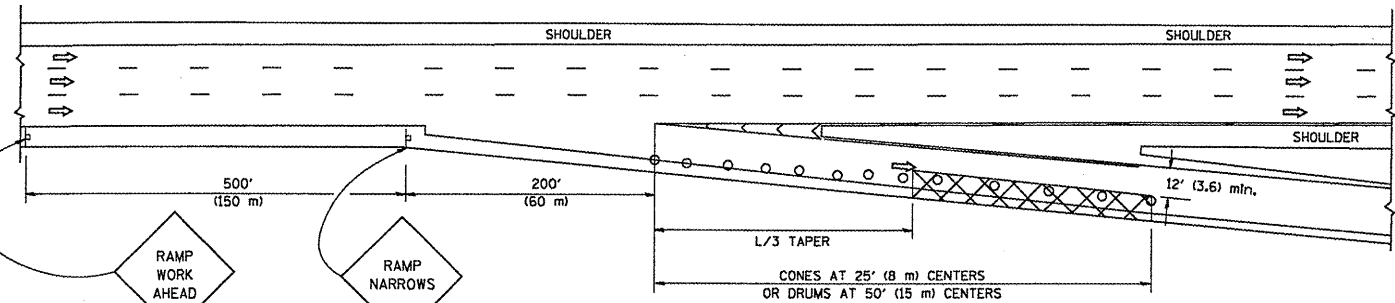
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

FILE NAME = W:\data\td\22x34\td09.dgn	USER NAME = lajoo	DESIGNED - DWS	REVISED - JAF 01-03	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL DETAILS FOR FREEWAY SINGLE & MULTI-LANE WEAVE			F.A.W. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN -	REVISED - JAF 02-06		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	290	2011-047-BF	COOK	31	29
		PLOT SCALE = 50,000' / IN.	REVISED - SPB 01-07						TC-09				
		PLOT DATE = 1/26/2010	REVISED - SPB 12-09						CONTRACT NO. 60P57				

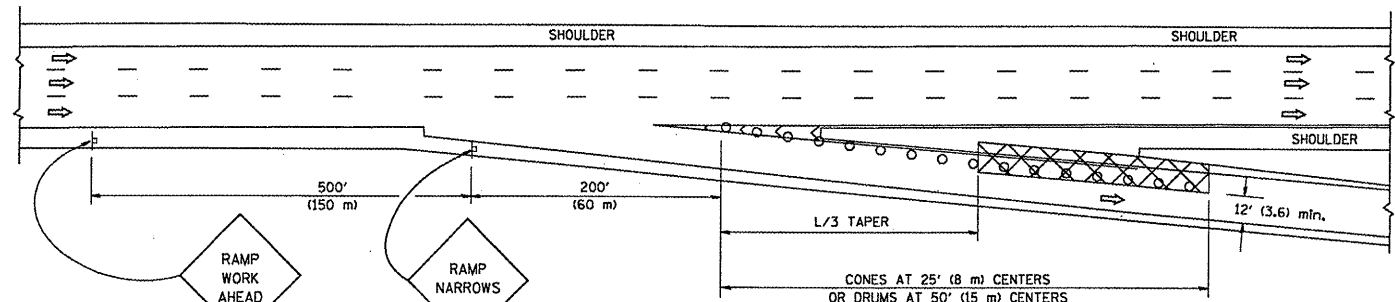
PARTIAL RAMP CLOSURE DETAILS



TYPICAL ENTRANCE RAMP



TYPICAL EXIT RAMP



TYPICAL EXIT RAMP

SYMBOLS

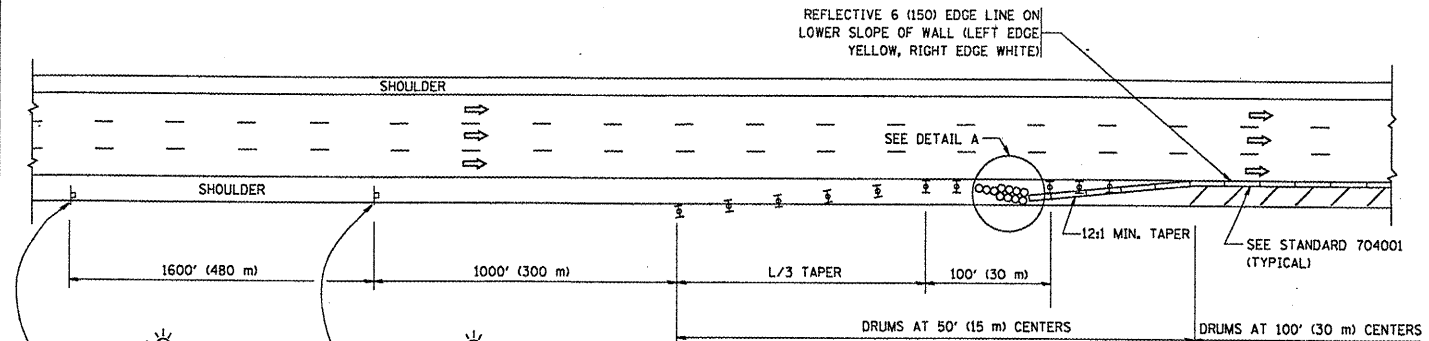
- ACTIVE WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- TYPE II BARRICADE, DRUM OR VERTICAL BARRICADE WITH STEADY BURN MONO-DIRECTIONAL LIGHT
- CONE, DRUM OR BARRICADE

GENERAL NOTES

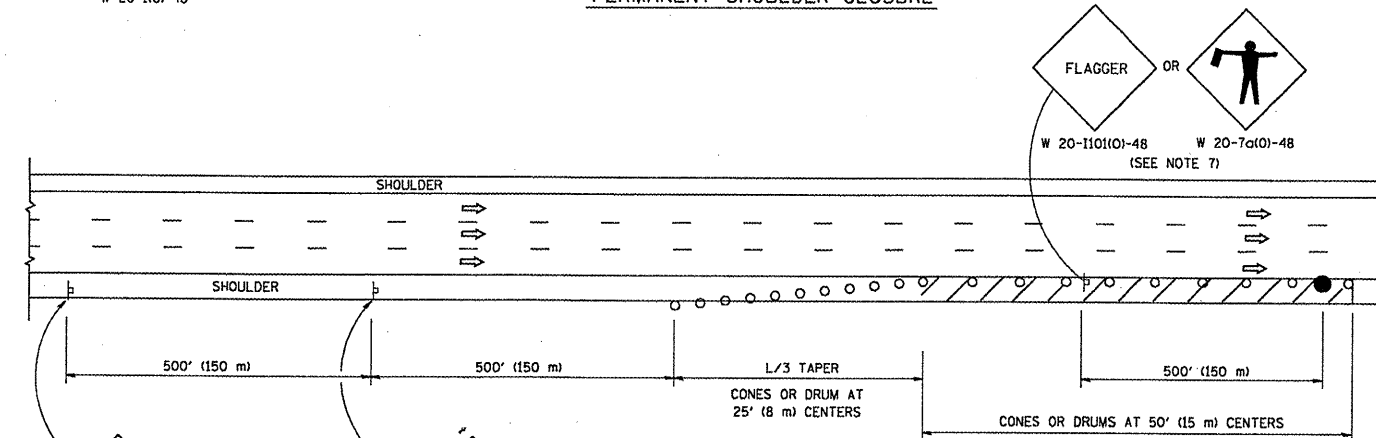
1. THE "L" DISTANCE EQUALS:
 

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)
2. PLASTIC DRUMS WITH HIGH PERFORMANCE REFLECTIVE SHEETING AND STEADY BURNING LIGHTS ARE REQUIRED FOR ALL NIGHTTIME CLOSURES.
3. ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
4. FLASHING LIGHTS SHALL BE USED DURING THE HOURS OF DARKNESS AND SHALL BE INSTALLED ABOVE THE FIRST TWO SETS OF SIGNS.

SHOULDER CLOSURE DETAILS



PERMANENT SHOULDER CLOSURE



DAYTIME SHOULDER CLOSURE

THIS DETAIL IS USED WHERE:  
1. VEHICLES, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCR OACH IN AN AREA CLOSER THAN 15' (4.5 m) TO THE EDGE OF PAVEMENT FOR A PERIOD IN EXCESS OF 15 MINUTES.

ARRAY DESIGN PER MANUFACTURER TO BE NCHRP 350 COMPLIANT.

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

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

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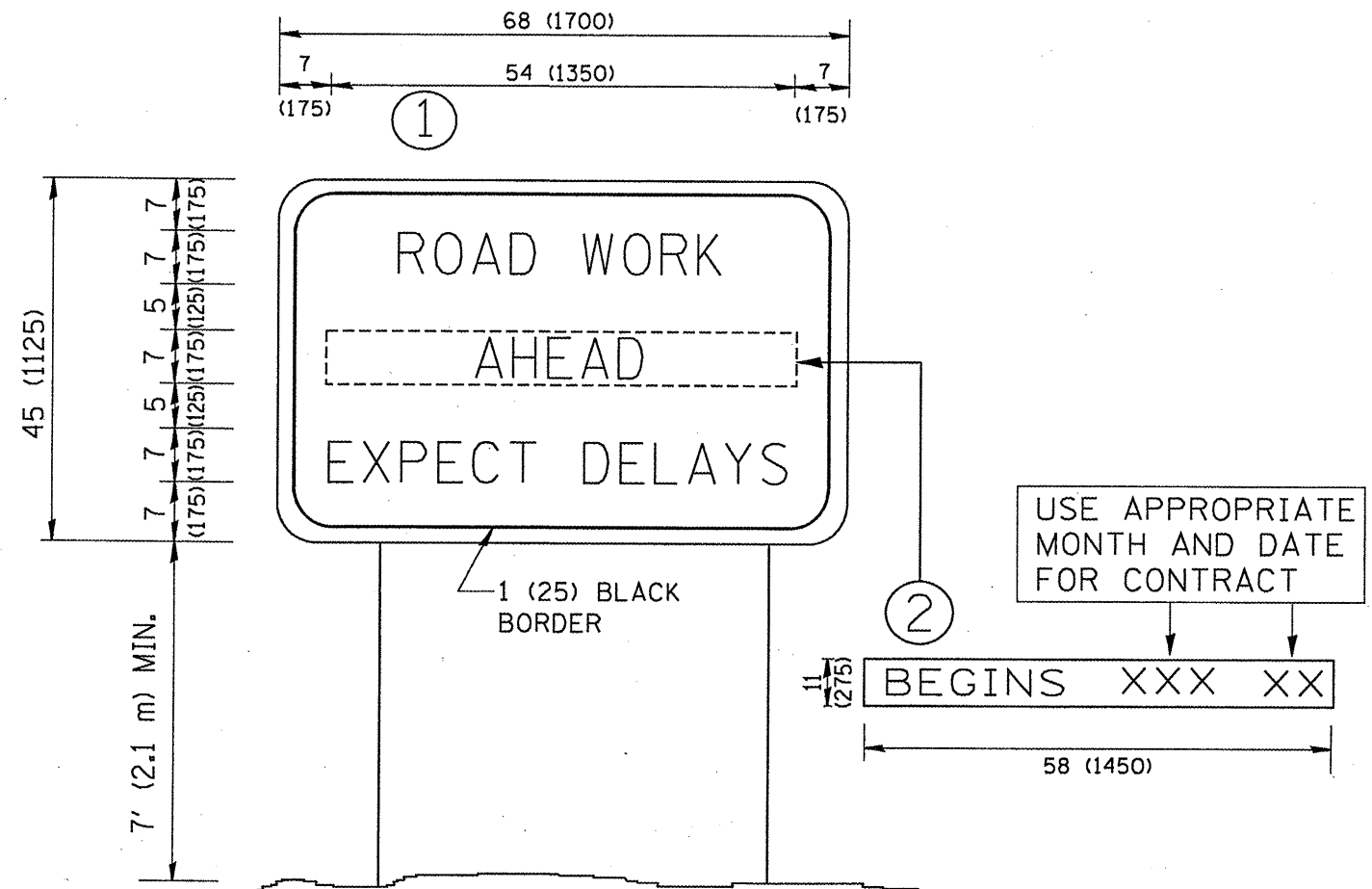
USER NAME = lryko	DESIGNED -	REVISED - 04-03
PLOT SCALE = 50.0000' / IN.	DRAWN - D.W.S.	REVISED - J.A.F. 12-06
PLOT DATE = 1/26/2010	CHECKED -	REVISED - S.P.B. 01-07
	DATE - 11-96	REVISED - S.P.B. 12-09

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL DETAILS FOR FREEWAY  
SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES

SCALE: NONE    SHEET NO. 1 OF 1 SHEETS    STA. TO STA.

F.A.T. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2011-047-BP	COOK	31	30
TC-17			CONTRACT NO. 60157	
FED. ROAD DIST. NO. 1 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.

FILE NAME = W:\disto\td\22x34\to22.dgn	USER NAME = goglienobt	DESIGNED -	REVISED - R. MIRS 09-15-97
		DRAWN -	REVISED - R. MIRS 12-11-97
		CHECKED -	REVISED - T. RAMMACHER 02-02-99
		DATE -	REVISED - C. JUCIUS 01-31-07

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ARTERIAL ROAD  
INFORMATION SIGN**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.T. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2011-047-8P	COOK	84	31
TC-22			CONTRACT NO. 60P57	
FED. ROAD DIST. NO. 1   ILLINOIS FED. AID PROJECT				