

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2006-018-BP	VARIOUS	27 + 1 = 28	1

FOR INDEX OF SHEETS SEE SHEET 6

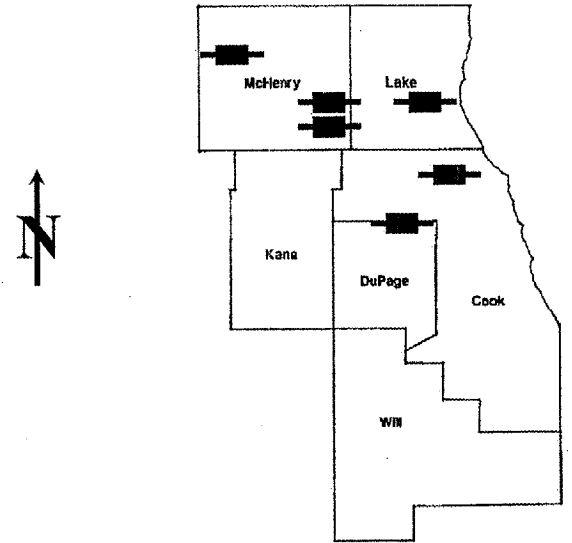
CONTRACT NO. 60B43

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

VARIOUS LOCATIONS  
 SECTION 2006-018 BP  
 BRIDGE PAINTING  
 VARIOUS COUNTIES  
 C-91-344-06

**IMPROVEMENT ARE  
 LOCATED IN THE  
 MUNICIPALITIES OF:**  
  
**NORTHBROOK  
 ITASCA  
 LAKE BUFF  
 CARY  
 FOX RIVER GROVE  
 ALGONQUIN  
 HARVARD**

- LOCATION 1) SN 016-0939
- LOCATION 2) SN 022-0106
- LOCATION 3) SN 049-0032
- LOCATION 4) SN 056-0059
- LOCATION 5) SN 056-0058
- LOCATION 6) SN 056-0007



LOCATION OF IMPROVEMENT INDICATED THUS:

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**  
**DIVISION OF HIGHWAYS**  
 SUBMITTED: Dec. 29 2006  
*Biane O'Keefe*  
DISTRICT ENGINEER  
February 2, 2007  
*Eric E. Ham*  
ENGINEER OF DESIGN AND ENVIRONMENT  
February 2, 2007  
*Milton R. Sees*  
DIRECTOR, DIVISION OF HIGHWAYS

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 OF THE STATE OF ILLINOIS**

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

DISTRICT ONE BUREAU OF DESIGN  
 DESIGN ENGINEER: K. ENG/R. BORO (847) 705-4178

**CONTRACT NO. 60B43**

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2006-018 BP	VARIOUS	27	2

Contract 60B43

## INDEX OF SHEETS

- 1 TITLE SHEET
- 2 INDEX OF SHEETS, STATE STANDARDS AND GENERAL NOTES
- 3 GENERAL PAINT NOTES
- 4-7 LOCATION MAPS
- 8 SUMMARY OF QUANTITIES
- 9 EXISTING BRIDGE PLANS (SN 016-0939: LOCATION 1)
- 10-12 EXISTING BRIDGE PLANS (SN 022-0106: LOCATION 2)
- 13-14 EXISTING BRIDGE PLANS (SN 049-0032: LOCATION 3)
- 15-17 EXISTING BRIDGE PLANS (SN 056-0059: LOCATION 4)
- 18-20 EXISTING BRIDGE PLANS (SN 056-0058: LOCATION 5)
- 21-24 EXISTING BRIDGE PLANS (SN 056-0007: LOCATION 6)
- 25 TRAFFIC CONTROL FOR SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES
- 26 TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS AND DRIVEWAYS
- 27 TRAFFIC CONTROL AND PROTECTION AND TURN BAYS (TO REMAIN OPEN TO TRAFFIC)

27A. *TRAFFIC CONTROL DETAIL*

## STATE STANDARDS

- 701101-01 MULTI-LANE OFF-ROAD OPERATIONS
- 701301-02 LANE CLOSURE 2L, 2W SHORT TIME OPERATIONS
- 701400-02 APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
- 701401-03 LANE CLOSURE, FREEWAY/EXPRESSWAY
- 701411-03 LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP
- 701446 TWO LANE CLOSURE, FREEWAY/EXPRESSWAY
- 701601-04 URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
- 701701-04 URBAN LANE CLOSURE, MULTILANE INTERSECTION
- 702001-04 TRAFFIC CONTROL DEVICES

## GENERAL NOTES

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 ARTERIAL ROUTES AND (847) 705-4151 FOR EXPRESSWAY ROUTES, A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

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 AREA.

IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO PROTECT AND MAINTAIN THE EXISTING BRIDGE LIGHTING AT ALL LOCATIONS.

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.

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

ILLINOIS DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS  
STATE STANDARDS  
GENERAL NOTES

Rev.

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2006-018BP	VARIOUS	27	3

Contract 60B43

**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".

LOCATIONS 1, 2 AND 3 CONTAIN LEAD PAINT. A MINIMUM OF FOUR (4) [AT LOCATION 1] AND TWO (2) [AT LOCATIONS 2 & 3] AIR MONITORS WILL BE REQUIRED TO MONITOR ABRASIVE BLASTING OPERATIONS PER LOCATION, SEE SPECIAL PROVISIONS FOR CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUE. LOCATIONS 4, 5 & 6, DO NOT CONTAIN LEAD PAINT. CONTAINMENT SHALL BE IN ACCORDANCE WITH THE SPECIAL PROVISION "CONTAINMENT AND DISPOSAL OF NON-LEAD PAINT CLEANING RESIDUES".

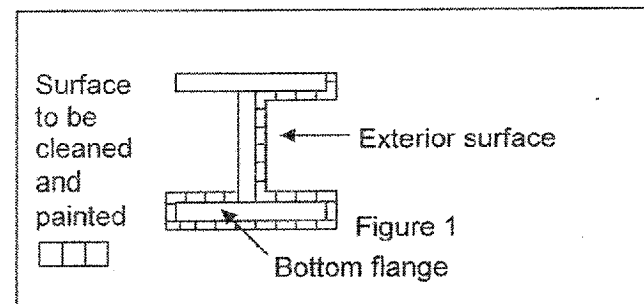
THE SSPC-QP1 AND SSPC-QP2 PAINTING CONTRACTOR CERTIFICATIONS WILL NOT BE REQUIRED FOR THESE BRIDGES.

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.

ALL BEAMS, BEARINGS AND OTHER STRUCTURAL STEEL WITHIN FIVE (5) FT., TEN (10) FT. AT LOCATION 4 (SN 056-0059), (MEASURED ALONG THE BEAM) OF EITHER SIDE OF THE DECK JOINTS INCLUDING JOINTS AT PIN & LINKS ON LOCATION 2 (SN 023-0106), 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 ALSO BE CLEANED PER NEAR WHITE BLAST CLEANING SSPC-SP10.

**FASCIA BEAM PAINTING DETAIL**



ILLINOIS DEPARTMENT OF TRANSPORTATION

GENERAL PAINT NOTES

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2006-018 BP	VARIOUS	27	4

CONTRACT NO. 60B43



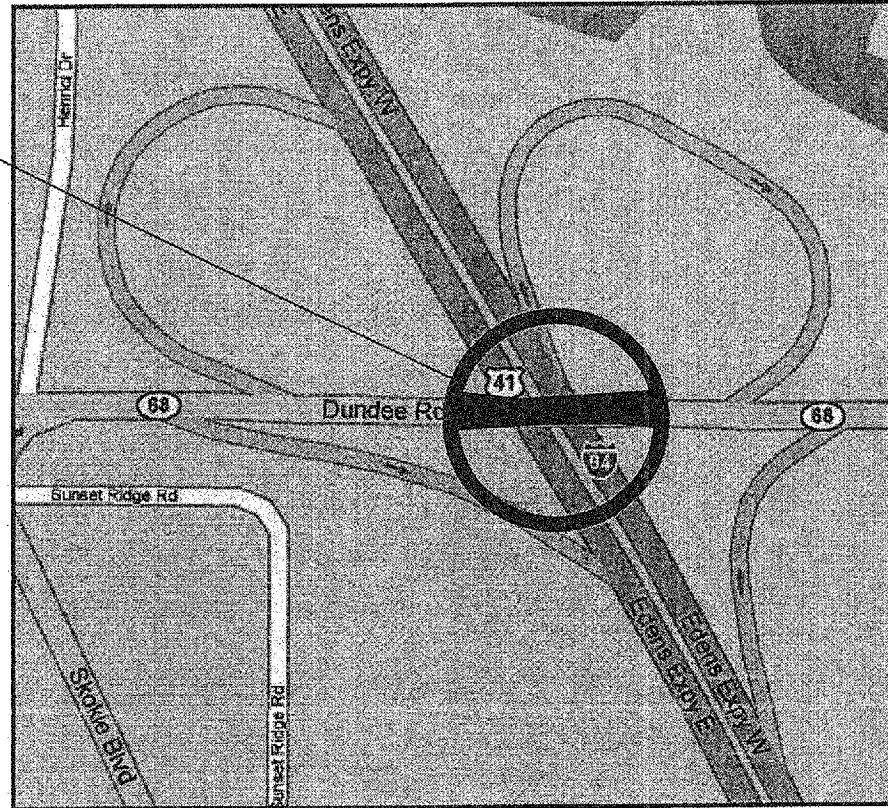
R 12 E

R 11 E

SN: 016-0939  
IL 68 OVER I-94  
(EDENS EXPRESSWAY)

VILLAGE OF  
NORTHBROOK  
COOK COUNTY

T 42 N



NORTHFIELD TOWNSHIP

**TRAFFIC DATA: I-94 (EDENS EXPRESSWAY)**

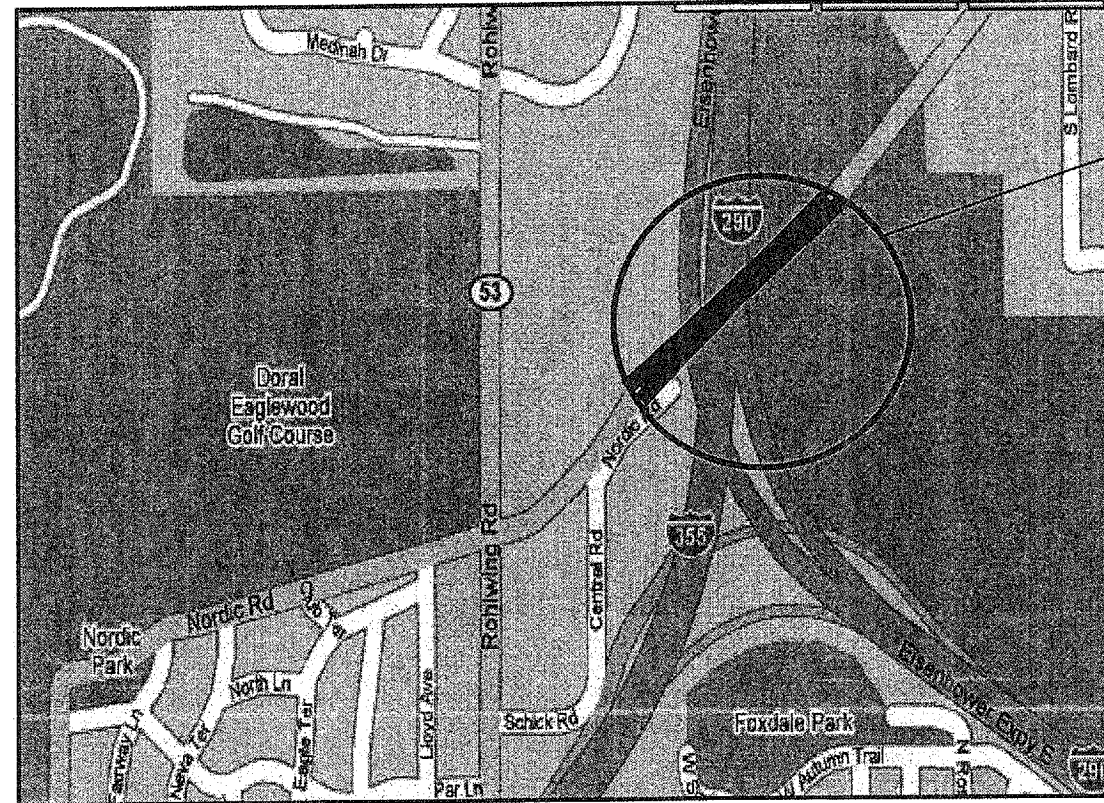
2005 ADT = 124,600  
SPEED LIMIT = 55 MPH

**LOCATION 1:**

SN: 022-0106  
NORDIC RD OVER  
I-290  
(EISENHOWER EXPRESSWAY)

VILLAGE OF ITASCA  
DUPAGE COUNTY

T 40 N



ADDISON TOWNSHIP

**TRAFFIC DATA: I-290 (EISENHOWER EXPRESSWAY)**

2005 ADT = 213,400  
SPEED LIMIT = 55 MPH

**LOCATION 2:**

ILLINOIS DEPARTMENT OF TRANSPORTATION

**LOCATION OF IMPROVEMENT**

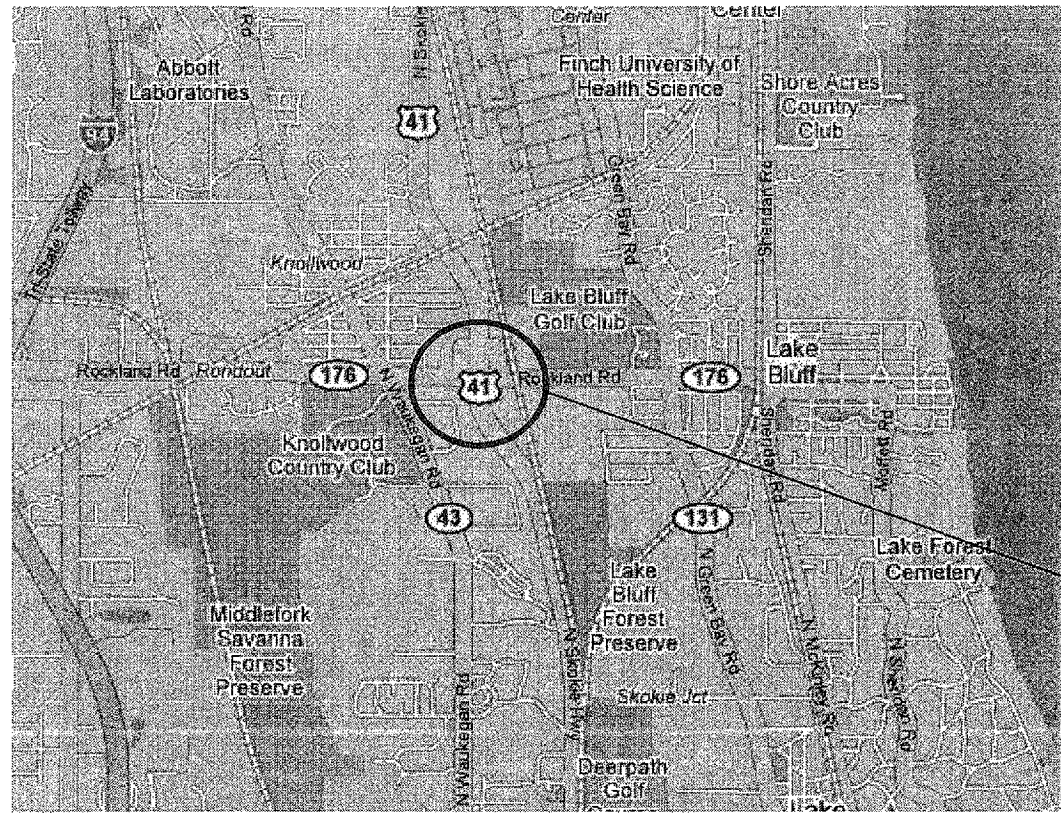
LOCATION 1: IL 68 OVER I-94  
LOCATION 2: NORDIC RD OVER I-290

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2006-018 BP	VARIOUS	27	5

CONTRACT NO.: 60B43

R 12 E

T 44 N



SHIELDS TOWNSHIP



ILL 176

ROBERT MCCLORY BIKE PATH

US 41 SKOKIE HWY

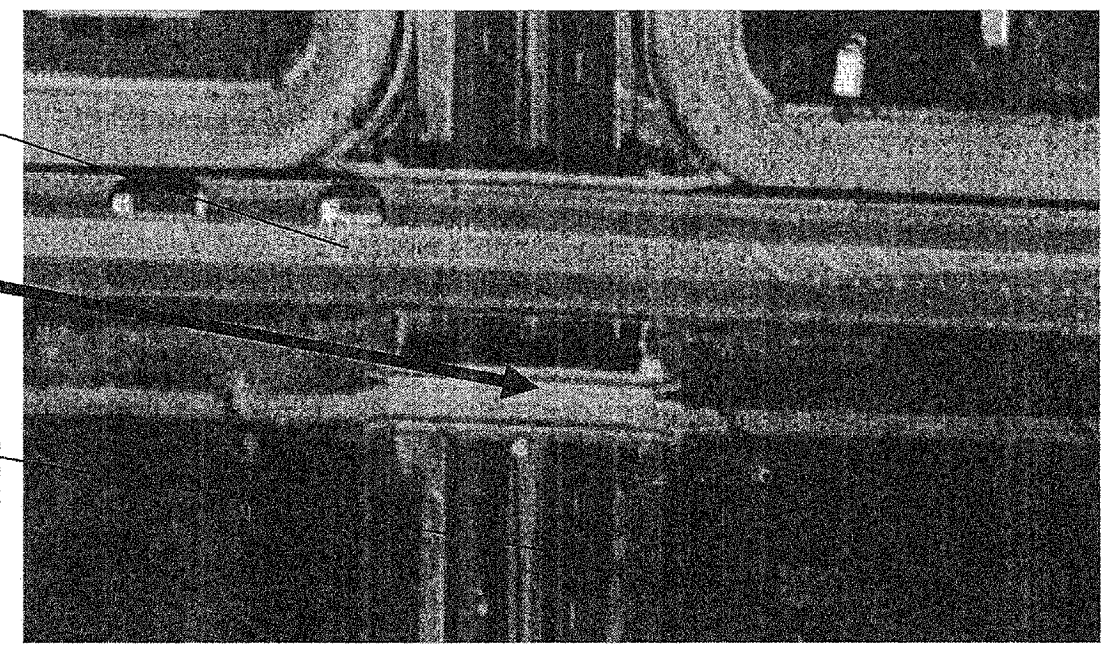


FIGURE A

SN: 049-0032  
**ROBERT MCCLORY BIKE PATH**  
**VILLAGE OF LAKE BUFF**  
**LAKE COUNTY**  
 (see Figure A)

**LOCATION 3**

**TRAFFIC DATA: US 41 (SKOKIE HWY)**

2005 ADT = 46,900  
 SPEED LIMIT = 55 MPH

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**LOCATION OF IMPROVEMENT**  
**LOCATION 3: ROBERT MCCLORY BIKE PATH**  
**OVER U.S. ROUTE 41**

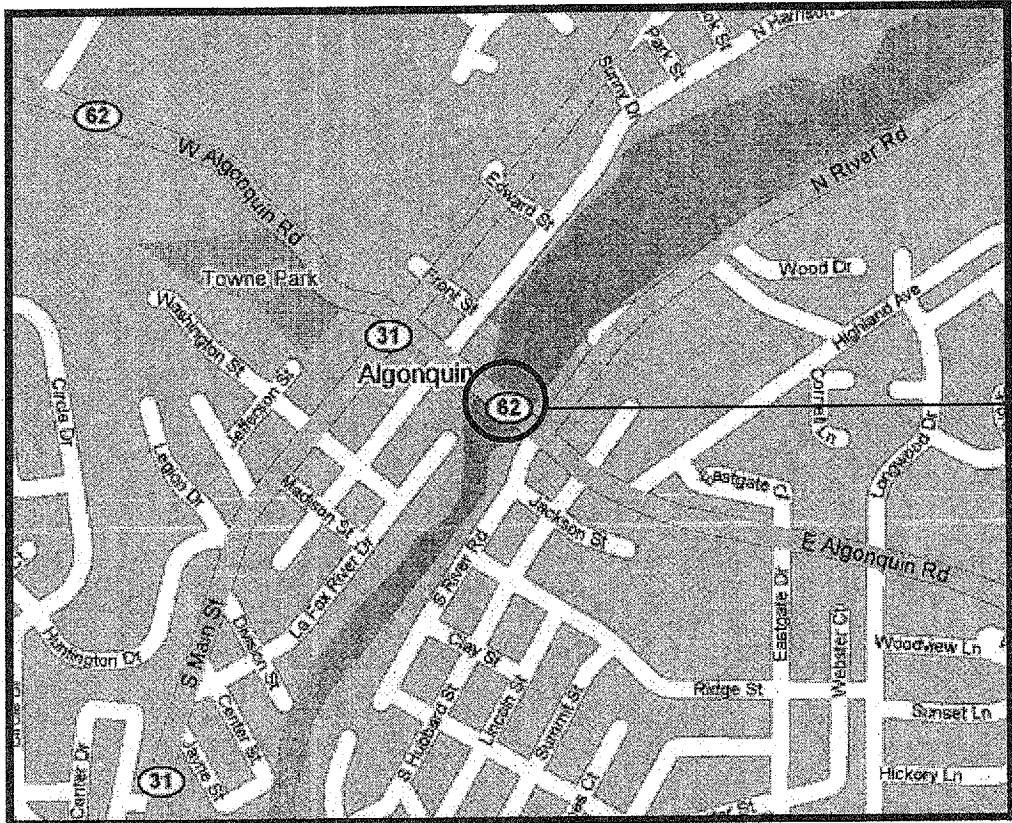
ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2006-018 BP	VARIOUS	27	6

CONTRACT NO.: 60B43



R 8 E

T 43 N



ALGONQUIN TOWNSHIP

SN: 056-0059  
 IL 62 OVER FOX RIVER  
 VILLAGE OF ALGONQUIN  
 MCHENRY COUNTY

**TRAFFIC DATA: IL 62 (ALGONQUIN RD)**

2005 ADT = 41,800  
 SPEED LIMIT = 30 MPH

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 LOCATION OF IMPROVEMENT  
 LOCATION 4: IL 62 OVER FOX RIVER

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2006-018 BR -1	VARIOUS	27	7

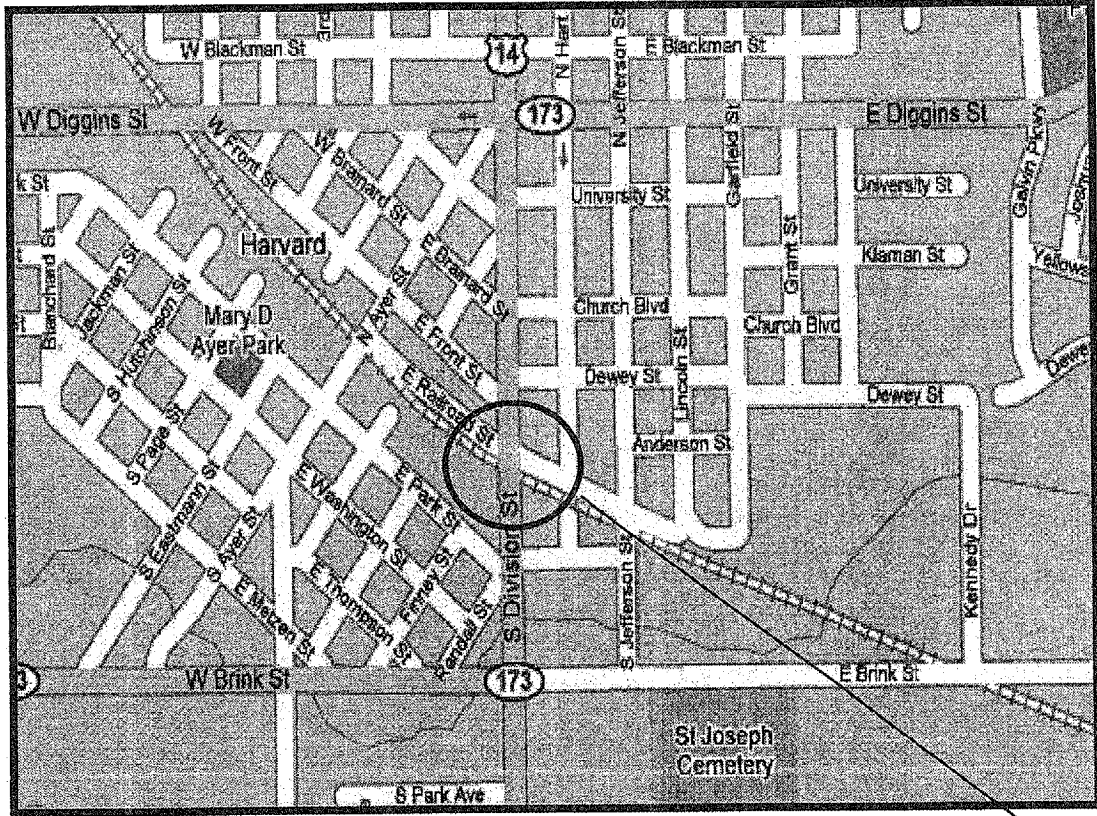
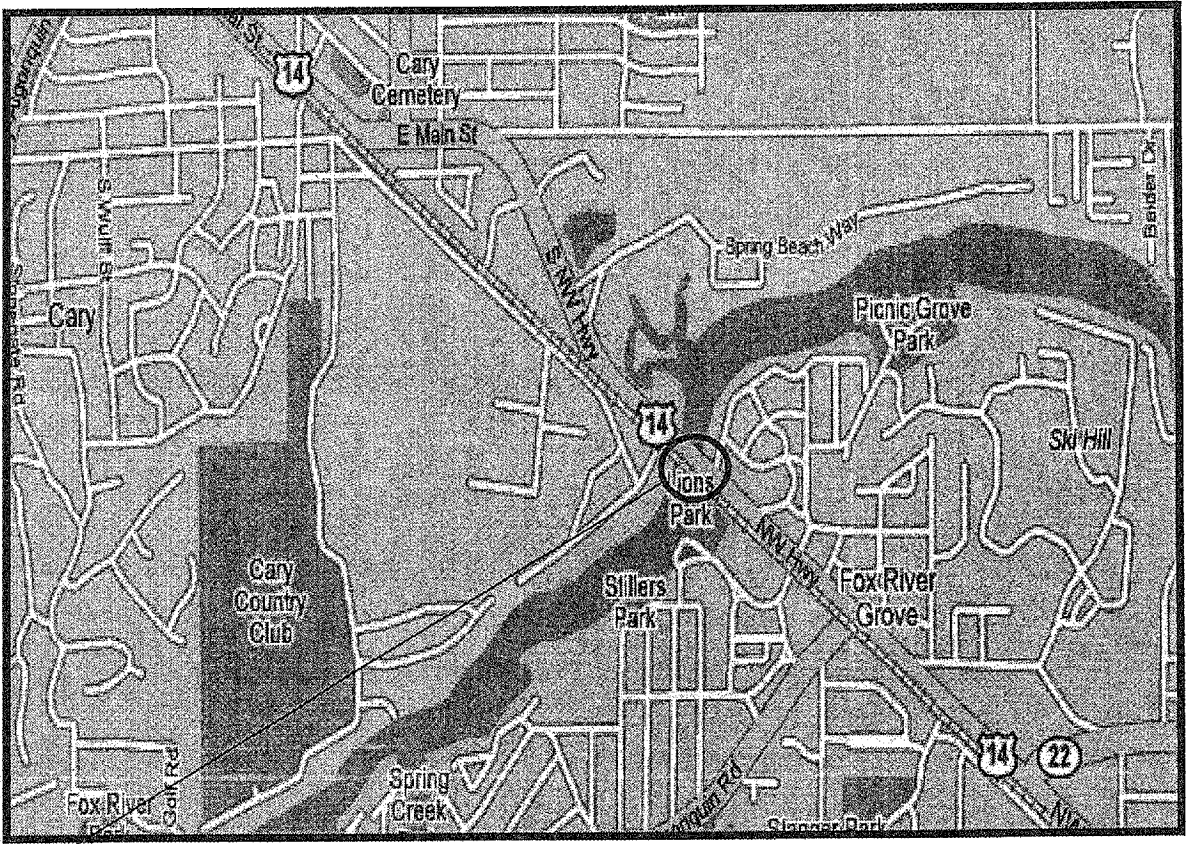
CONTRACT NO.: 60B43

R 9 E

R 5 E

T 43 N

T 46 N



SN: 056-0058  
 US 14 OVER FOX RIVER  
 VILLAGE 'S OF CARY AND  
 FOX RIVER GROVE  
 MCHENRY COUNTY

**TRAFFIC DATA: US 14**  
 2005 ADT = 33,700  
 SPEED LIMIT = 35 MPH

ALGONQUIN TOWNSHIP

**LOCATION 5**

CHEMUNG TOWNSHIP

SN: 056-0007  
 US 14 OVER UNION PACIFIC  
 RR AND McCOMB ST.  
 VILLAGE OF HARVARD  
 MCHENRY COUNTY

**TRAFFIC DATA: US 14**  
 2005 ADT = 10,800  
 SPEED LIMIT = 30 MPH

**LOCATION 6**

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 LOCATION OF IMPROVEMENT  
 LOCATION 5: US 14 OVER FOX RIVER  
 LOCATION 6: US 14 OVER UP RAILROAD

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2006-018 BP	VARIOUS	27	8

CONTRACT NO.: 60B43

# SUMMARY OF QUANTITIES

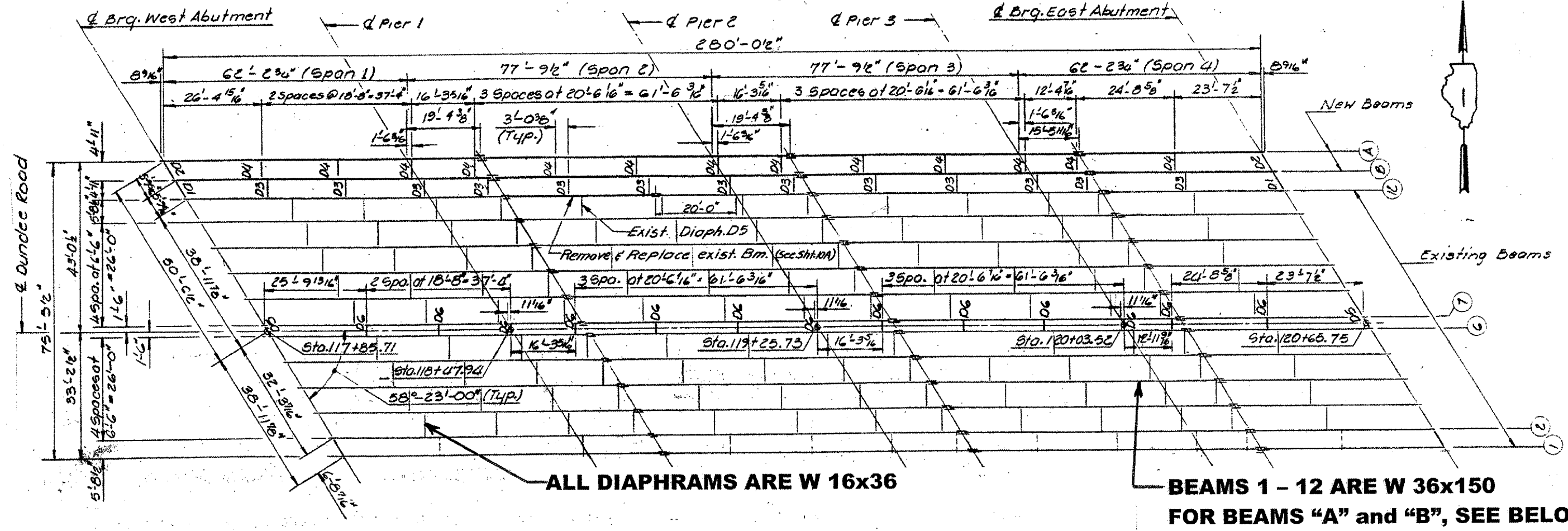
Pay Item	Description	Unit	Total	100% STATE SFTY 2A URBAN					
				LOC. 1	LOC. 2	LOC. 3	LOC. 4	LOC. 5	LOC. 6
50606400	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES	L SUM	1.00	0.30	0.40	0.30	0.00	0.00	0.00
50606701	CLEANING AND PAINTING STRUCTURAL STEEL, LOCATION 1	L SUM	1.00	1.00	0.00	0.00	0.00	0.00	0.00
50606702	CLEANING AND PAINTING STRUCTURAL STEEL, LOCATION 2	L SUM	1.00	0.00	1.00	0.00	0.00	0.00	0.00
50606703	CLEANING AND PAINTING STRUCTURAL STEEL, LOCATION 3	L SUM	1.00	0.00	0.00	1.00	0.00	0.00	0.00
50606704	CLEANING AND PAINTING STRUCTURAL STEEL, LOCATION 4	L SUM	1.00	0.00	0.00	0.00	1.00	0.00	0.00
50606705	CLEANING AND PAINTING STRUCTURAL STEEL, LOCATION 5	L SUM	1.00	0.00	0.00	0.00	0.00	1.00	0.00
50606706	CLEANING AND PAINTING STRUCTURAL STEEL, LOCATION 6	L SUM	1.00	0.00	0.00	0.00	0.00	0.00	1.00
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	4.00	0.60	0.70	0.60	0.70	0.70	0.70
67100100	MOBILIZATION	L SUM	1.00	0.16	0.17	0.16	0.17	0.17	0.17
70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	1.00	0.16	0.17	0.16	0.17	0.17	0.17
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1.00	0.25	0.00	0.00	0.25	0.25	0.25
X0322467	TEMPORARY INFORMATION SIGNING FOR LANE CLOSURE	SQ FT	432.00	48.00	48.00	48.00	96.00	96.00	96.00
X7011015	TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)	L SUM	1.00	0.50	0.50	0.00	0.00	0.00	0.00
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1.00	0.00	0.00	0.00	0.00	0.00	1.00
50606600	CONTAINMENT AND DISPOSAL OF NON-LEAD PAINT CLEANING RESIDUES	L SUM	1.00	-	-	-	0.35	0.30	0.35

Rev.



ROUTE VARIOUS	SECTION 2006-018 BP	COUNTY VARIOUS	TOTAL SHEETS 27	SHEET NUMBER 9
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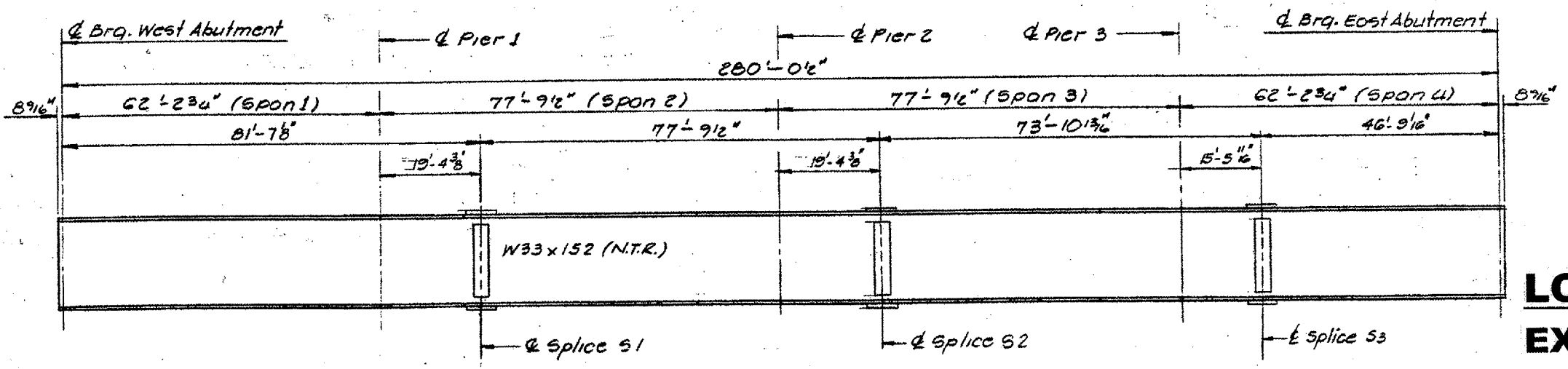
CONTRACT NO.: 60B43 N



ALL DIAPHRAGMS ARE W 16x36

BEAMS 1 - 12 ARE W 36x150  
FOR BEAMS "A" and "B", SEE BELOW

FRAMING PLAN

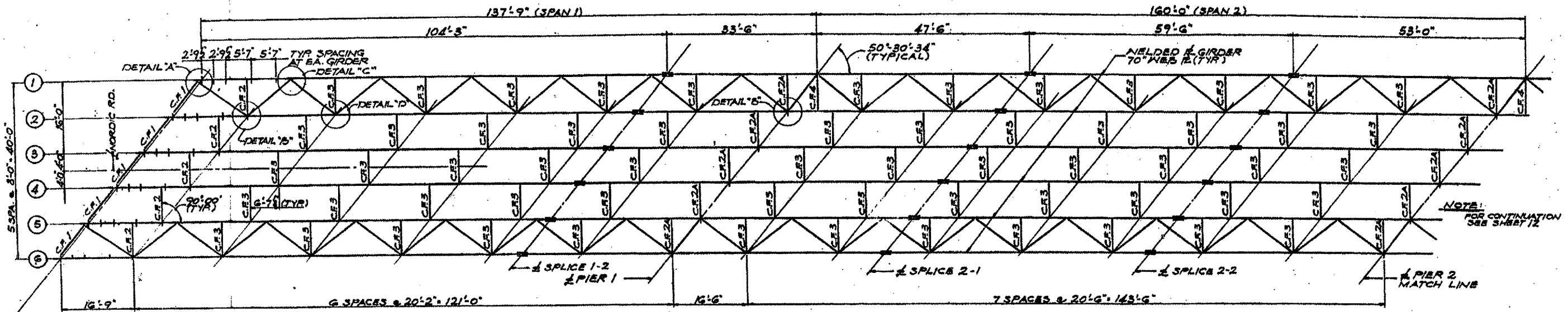


ELEVATION - BEAMS A AND B

**LOCATION NO. 1**  
**EXIST. BRIDGE PLANS**  
**ILL. 68 OVER EDENS X-WAY**  
**SN: 016-0939**

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2006-018 BP	VARIOUS	27	10

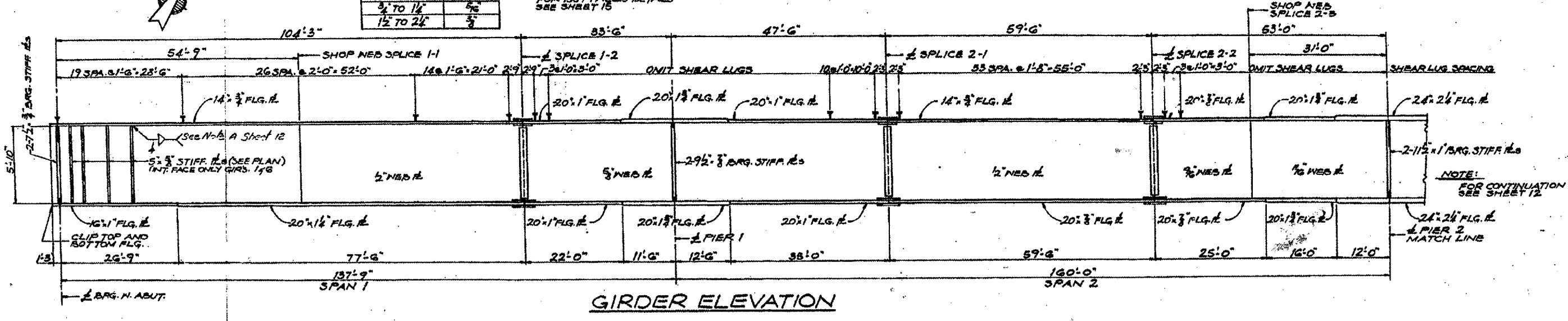
CONTRACT NO.: 60B43



NELD TABLE

FLANGE PLATE SIZE	FILLET WELD SIZE
1/2" TO 1/4"	1/4"
3/4" TO 1 1/4"	5/16"
1 1/2" TO 2 1/4"	3/8"

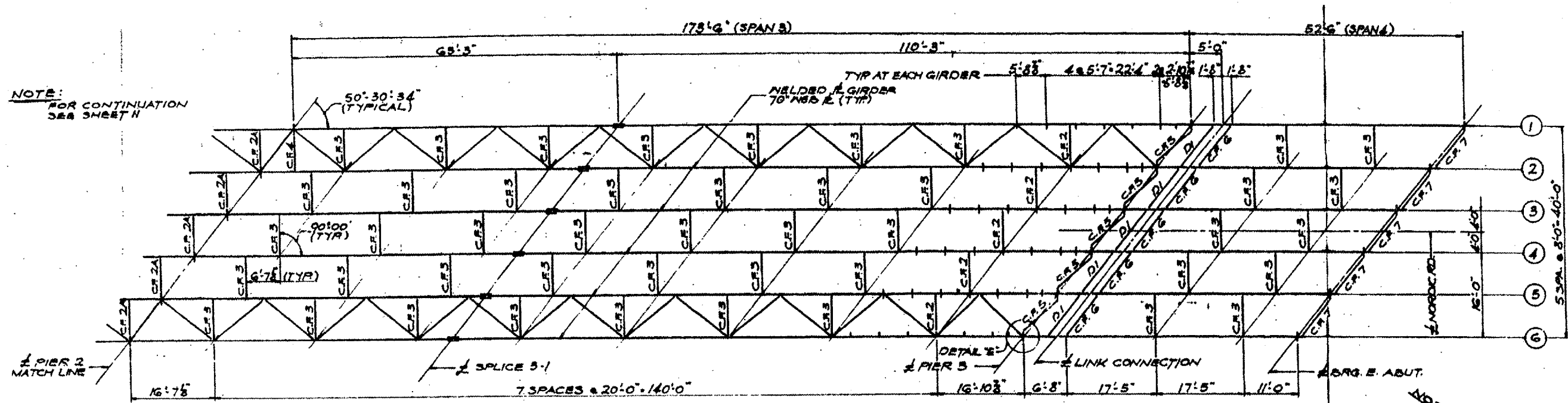
NOTE: FOR BUTTWELDED DETAILS SEE SHEET 15



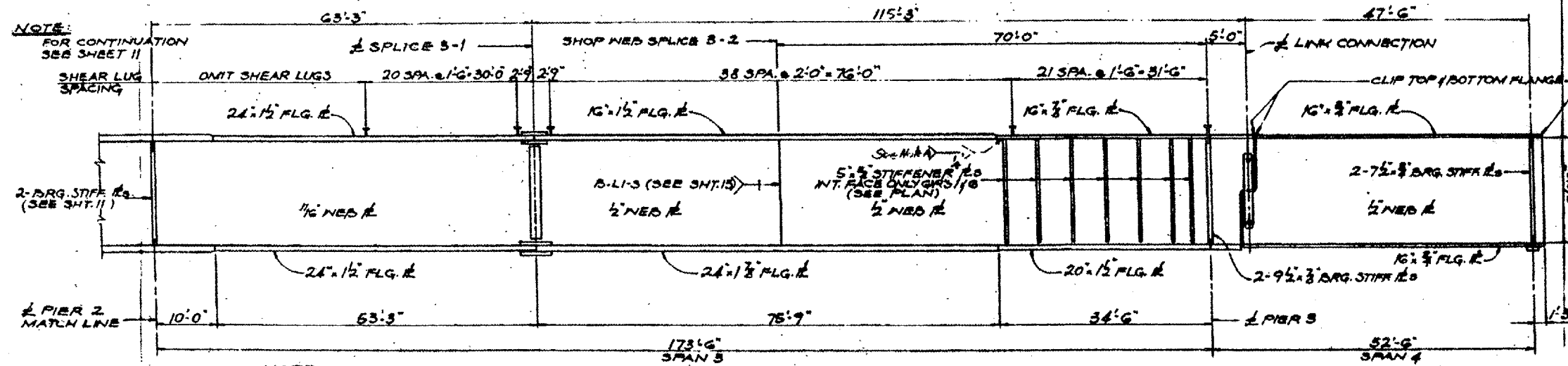
**LOCATION NO. 2**  
**EXIST. BRIDGE PLANS**  
**NORDIC RD. OVER I-290**  
**SN: 022-0106**

ROUTE VARIOUS	SECTION 2006-018 BP	COUNTY VARIOUS	TOTAL SHEETS 27	SHEET NUMBER 11
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CONTRACT NO.: 60B43



**FRAMING PLAN**  
SCALE: 1/8" = 1'-0"



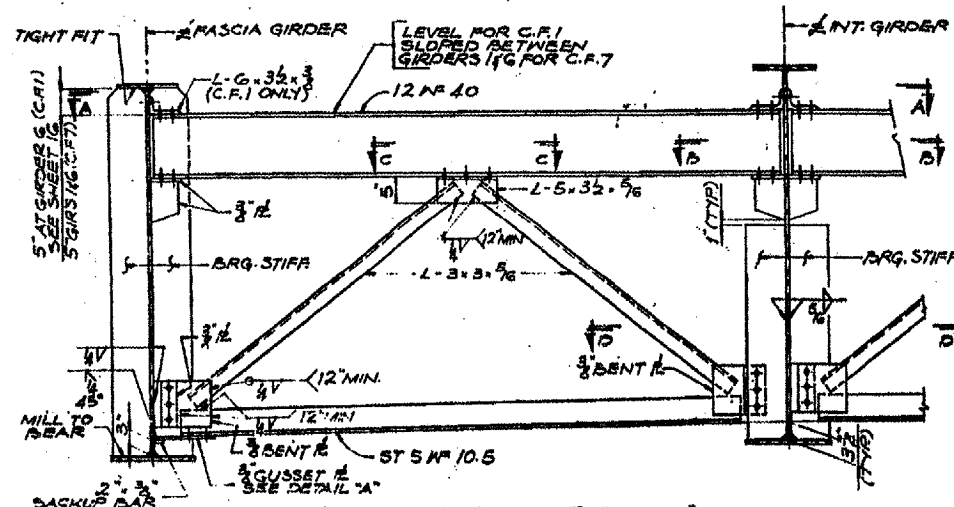
**GIRDER ELEVATION**

NOTE: FOR SIZES OF FILLET WELDS SEE SHEET 11 FOR BUTTWELD DETAILS SEE SHT. 15

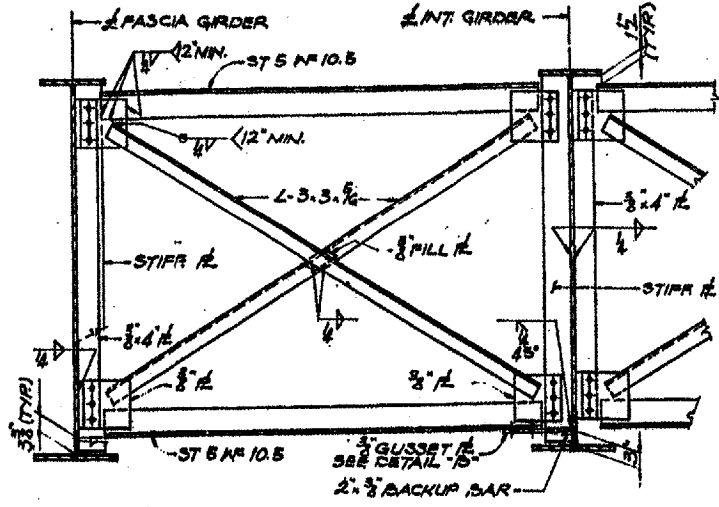
**LOCATION NO. 2**  
**EXIST. BRIDGE PLANS**  
**NORDIC RD. OVER I-290**  
**SN: 022-0106**

ROUTE VARIOUS	SECTION 2006-018 BP	COUNTY VARIOUS	TOTAL SHEETS 27	SHEET NUMBER 12
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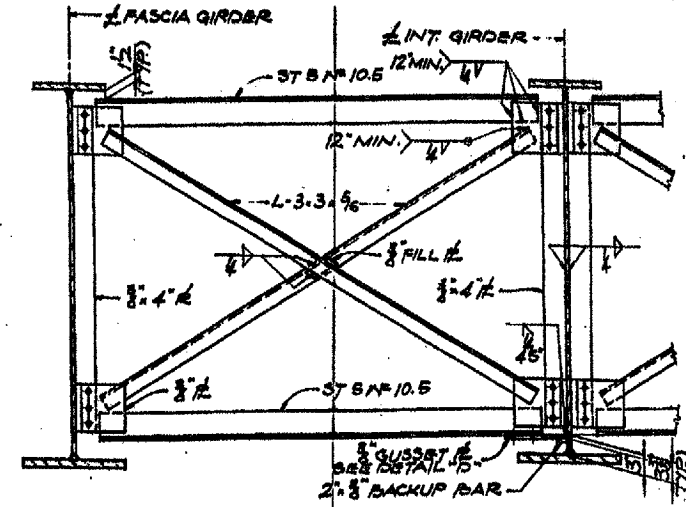
CONTRACT NO.: 60B43



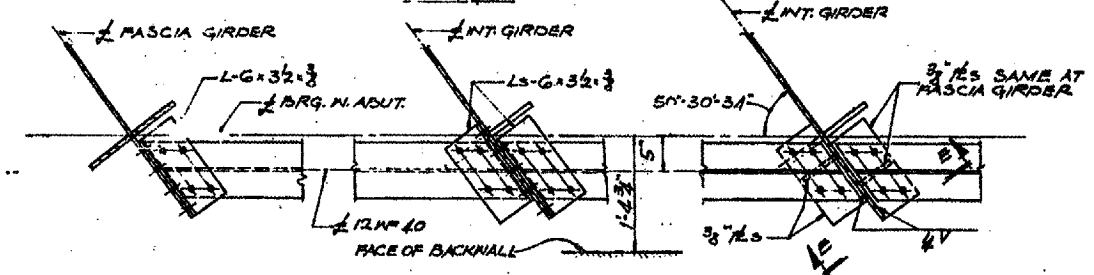
**CROSS FRAME 'C.F.1'**  
CROSS FRAME 'C.F.7' SIMILAR  
SCALE: 1/4" = 1'-0"



**CROSS FRAME 'C.F.2'**  
CROSS FRAMES 'C.F.2A', 'C.F.4' SIMILAR  
SCALE: 1/4" = 1'-0"

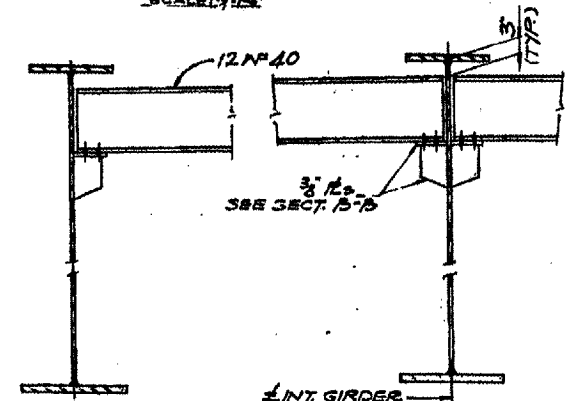


**CROSS FRAME 'C.F.3'**  
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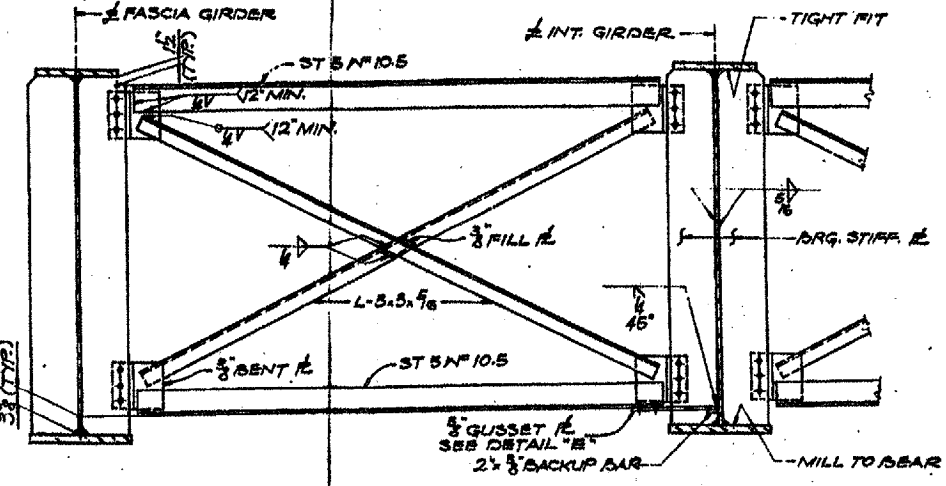


**SECTION A-A**  
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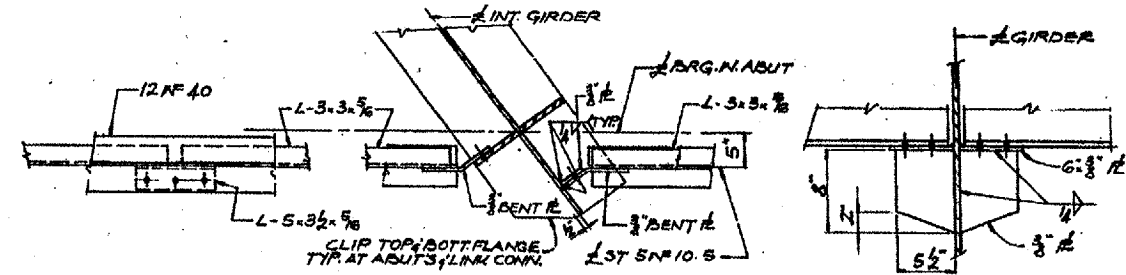
**SECTION B-B**  
SCALE: 1/4" = 1'-0"



**DIAPHRAGM 'D1'**  
SCALE: 1/4" = 1'-0"



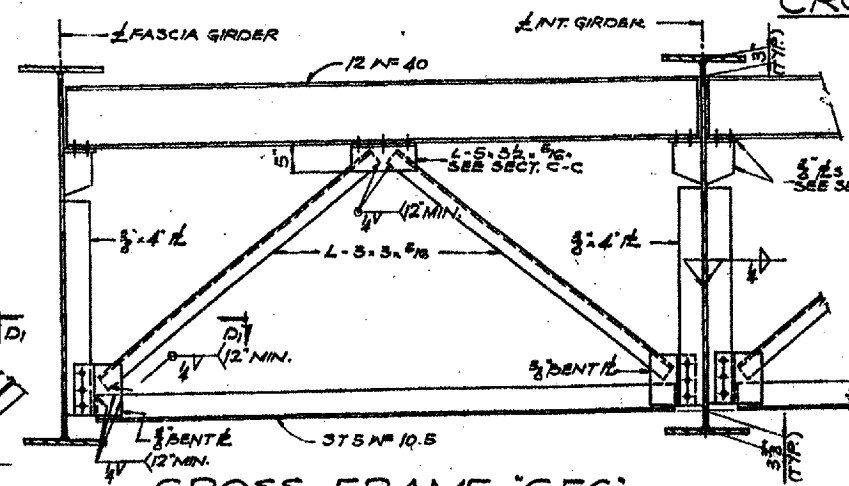
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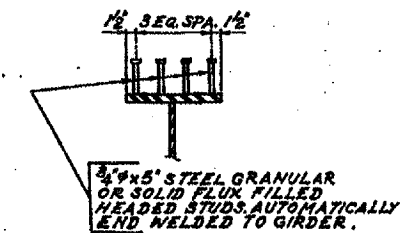
**SECTION C-C**  
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**SECTION D-D**  
SECTION D1-D1, SIMILAR  
SCALE: 1/4" = 1'-0"

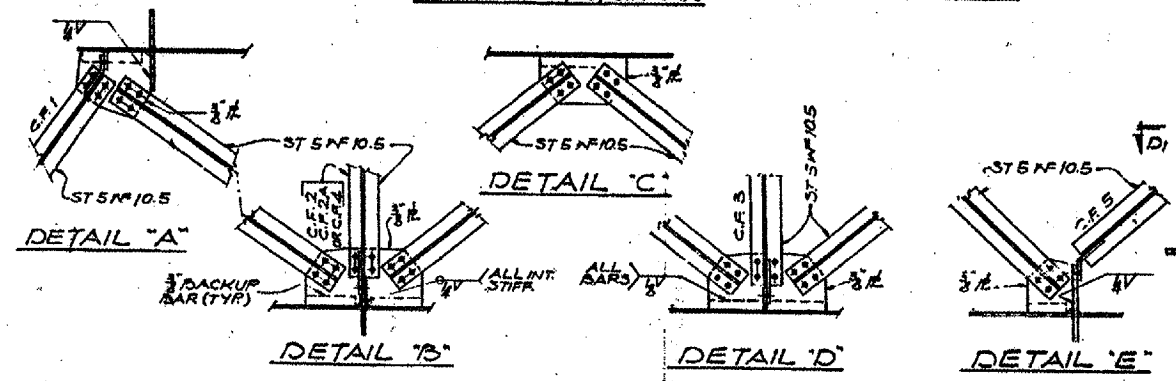
**SECTION E-E**  
SCALE: 1/4" = 1'-0"



**CROSS FRAME 'C.F.6'**  
SCALE: 1/4" = 1'-0"



**SHEAR LUG DETAIL**

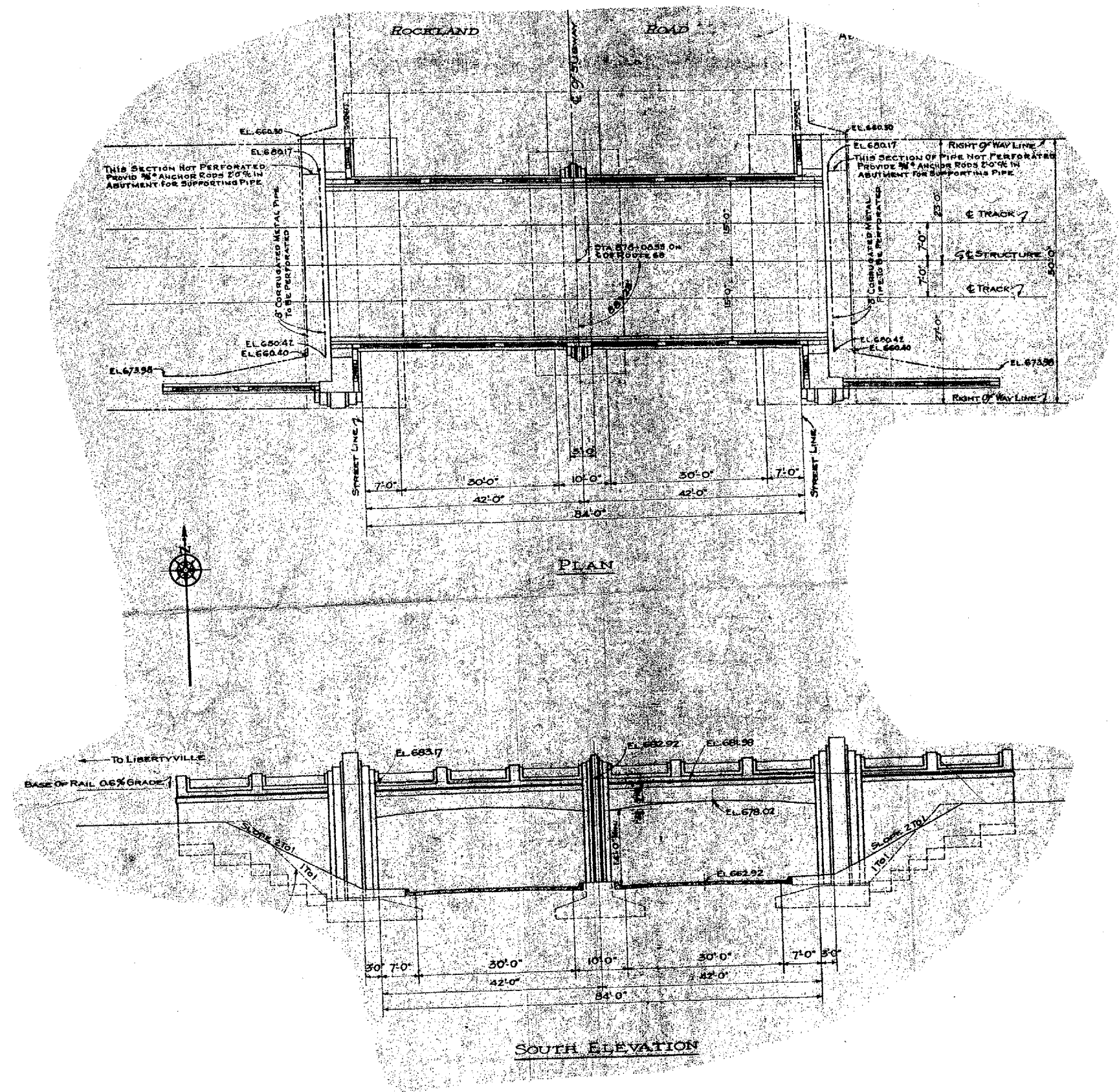


**BOTTOM LATERAL BRACING CONNECTIONS**  
SCALE: 1/4" = 1'-0"

**LOCATION NO. 2**  
**EXIST. BRIDGE PLANS**  
**NORDIC RD. OVER I-290**  
**SN: 022-0106**

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2006-018 BP	VARIOUS	27	13

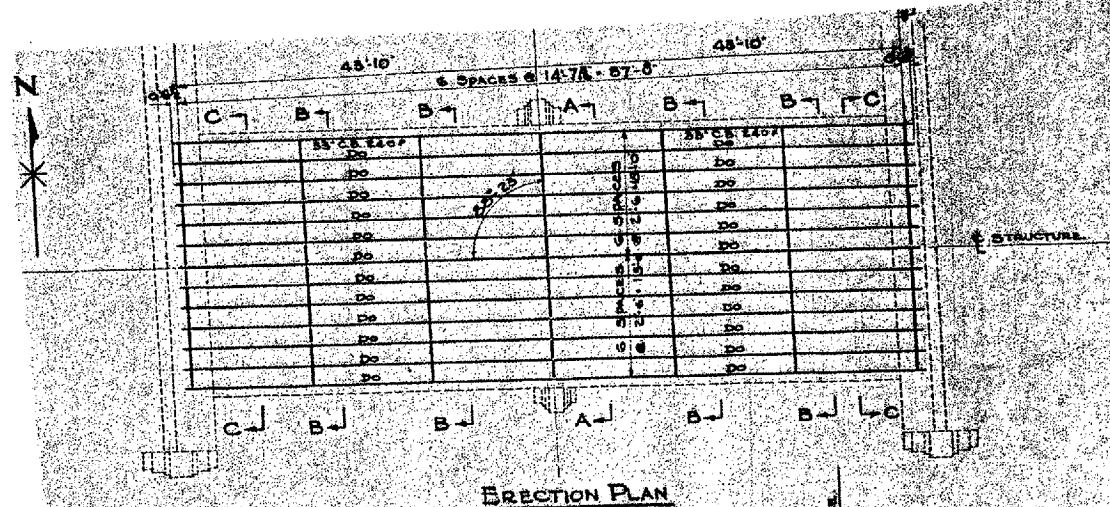
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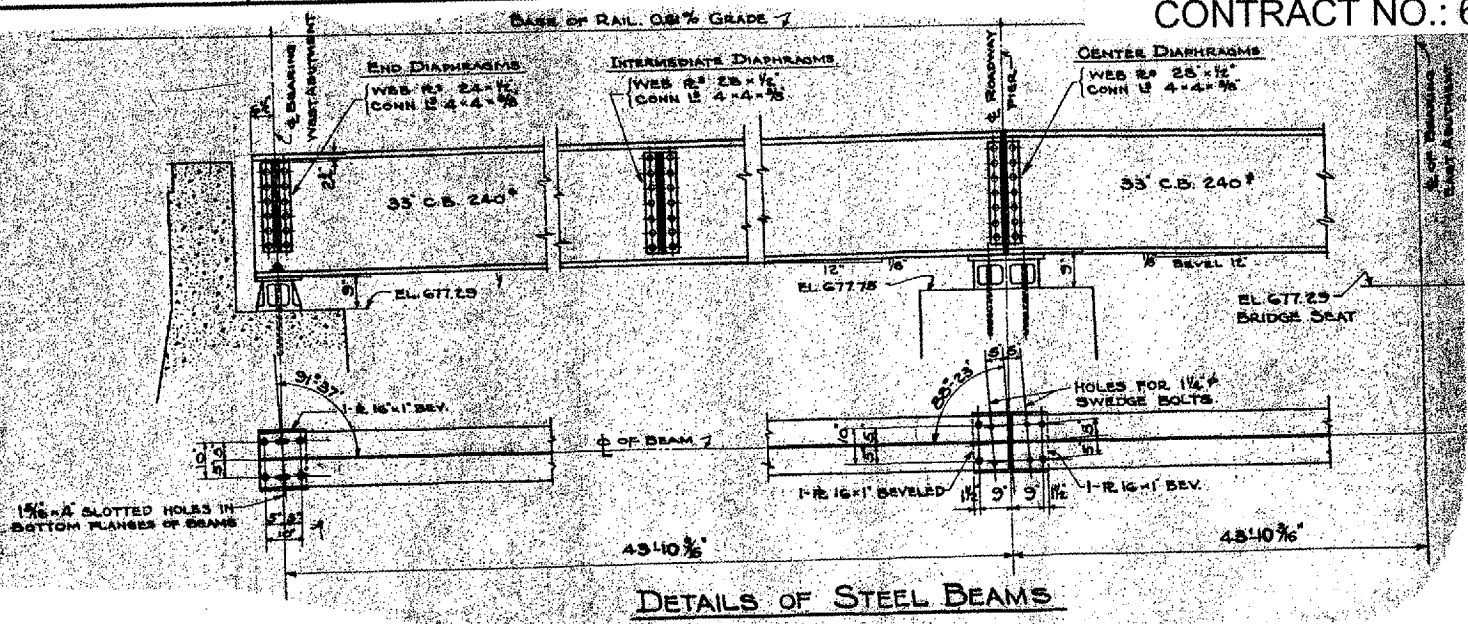
**LOCATION NO. 3**  
**EXIST. BRIDGE PLANS**  
**ABANDONED R.R OVER US 41**  
**SN: 049-0032**

ROUTE VARIOUS	SECTION 2006-018 BP	COUNTY VARIOUS	TOTAL SHEETS 27	SHEET NUMBER 14
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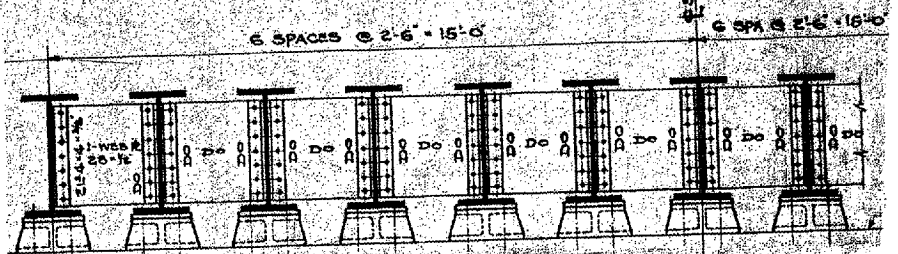
CONTRACT NO.: 60B43



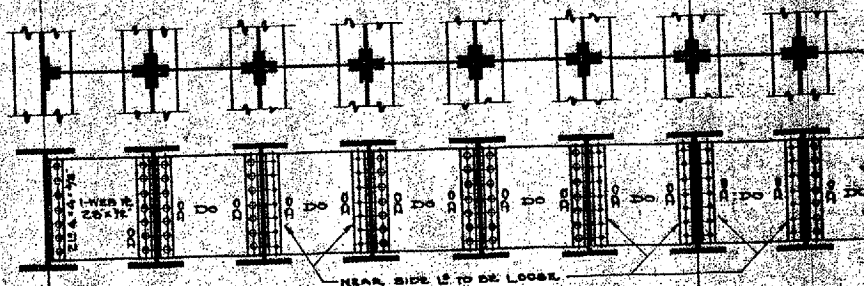
ERECTION PLAN



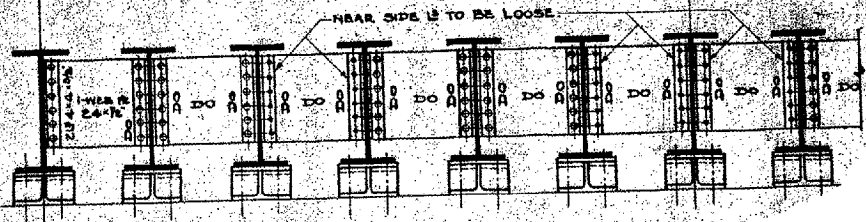
DETAILS OF STEEL BEAMS



SECTION "AA"



SECTION "BB"

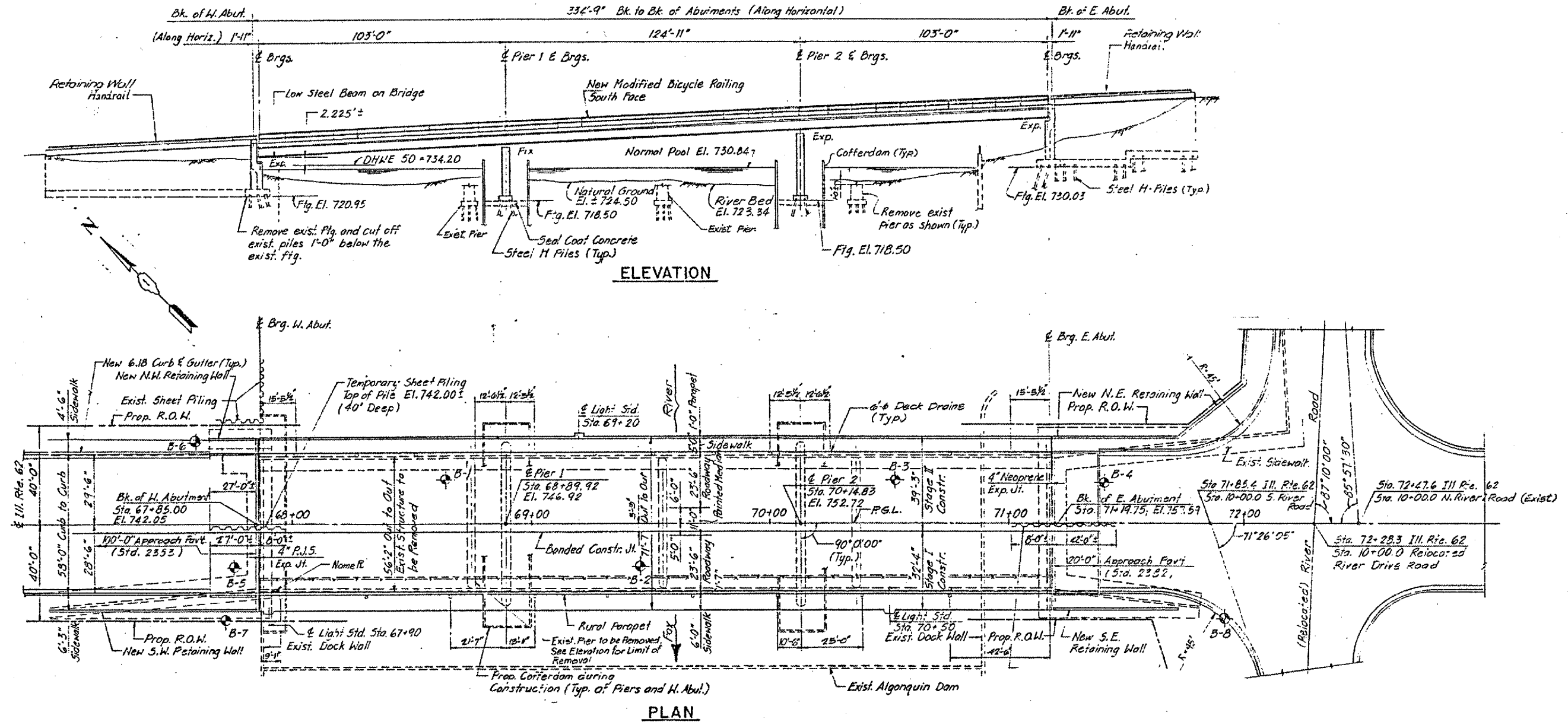


SECTION "CC"

**LOCATION NO. 3**  
**EXIST. BRIDGE PLANS**  
**ABANDONED R.R OVER US 41**  
**SN: 049-0032**

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2006-018 BP	VARIOUS	27	15

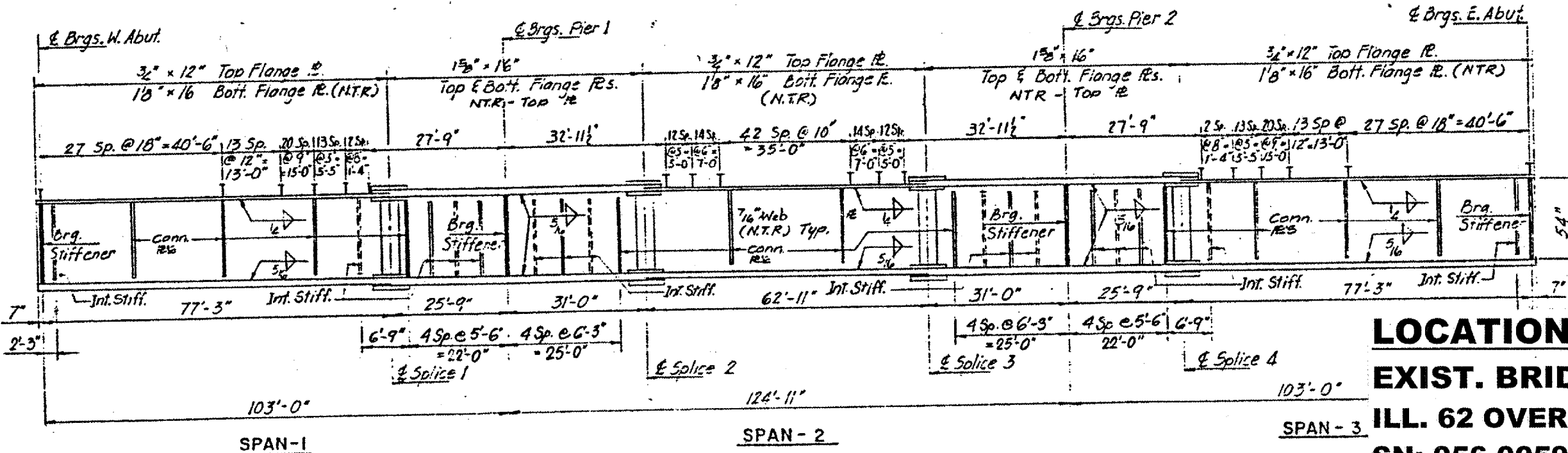
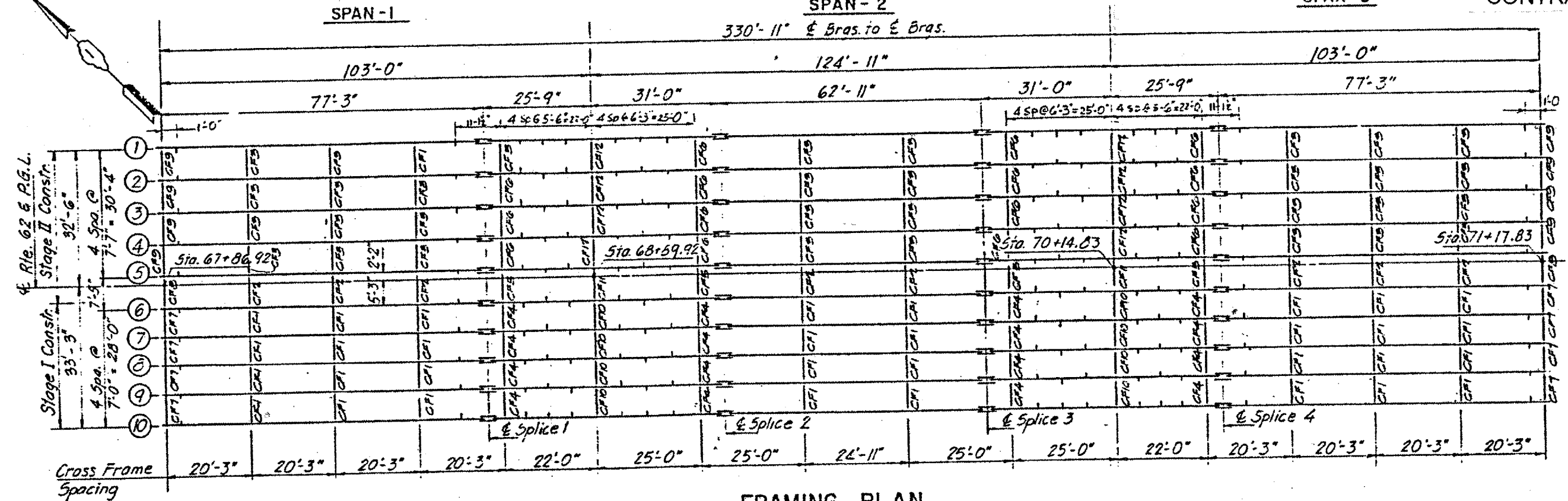
CONTRACT NO.: 60B43



**LOCATION NO. 4**  
**EXIST. BRIDGE PLANS**  
**ILL. 62 OVER FOX RIVER**  
**SN: 056-0059**

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2006-018 BP	VARIOUS	27	16

CONTRACT NO.: 60B43

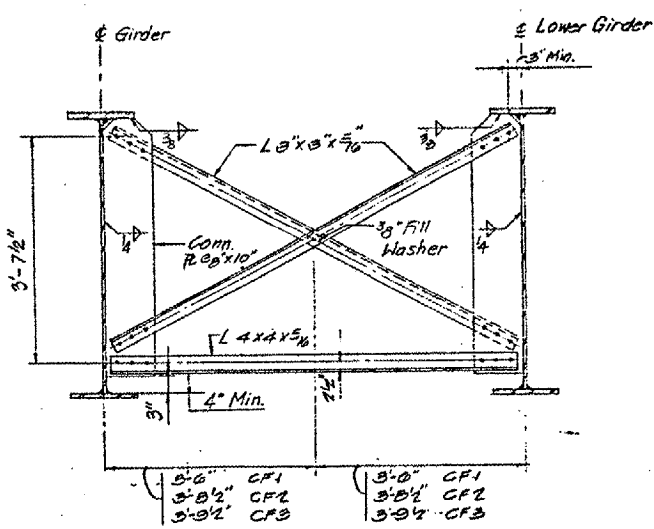


**LOCATION NO. 4**  
**EXIST. BRIDGE PLANS**  
**ILL. 62 OVER FOX RIVER**  
**SN: 056-0059**

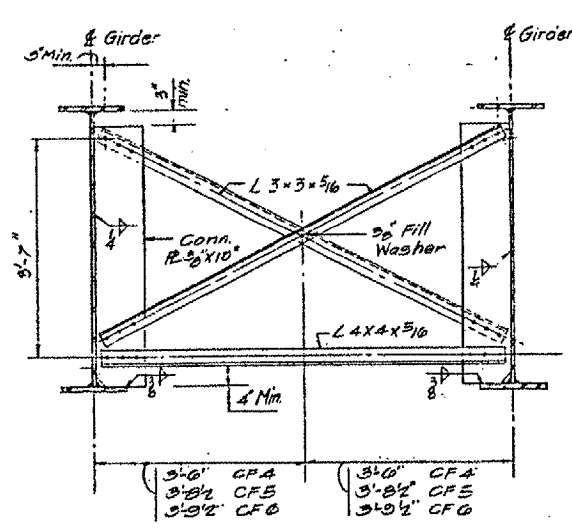


ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2006-018 BP	VARIOUS	27	17

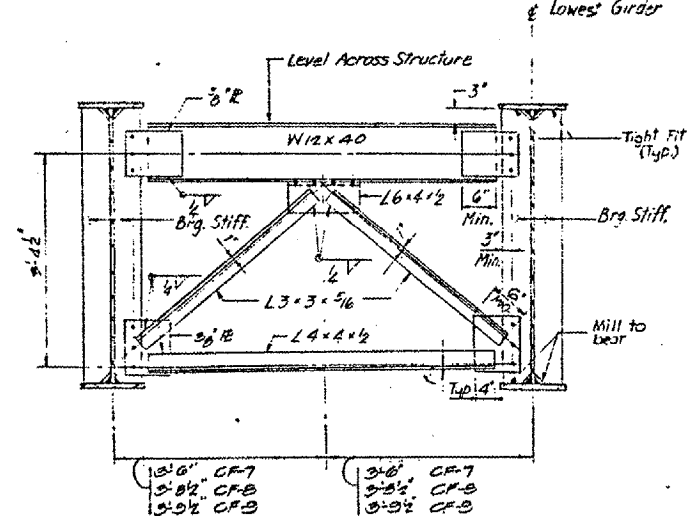
CONTRACT NO.: 60B43



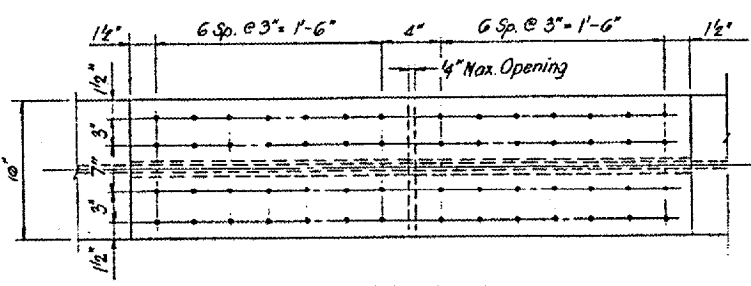
**CROSS FRAME - CF1, CF2 & CF3**  
 CF1 (32 REQ'D)  
 CF2 (8 REQ'D)  
 CF3 (32 REQ'D)



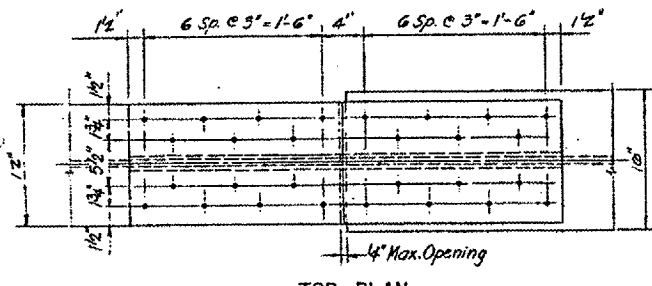
**CROSS FRAME - CF4, CF5 & CF6**  
 CF4 (10 REQ'D)  
 CF5 (4 REQ'D)  
 CF6 (10 REQ'D)



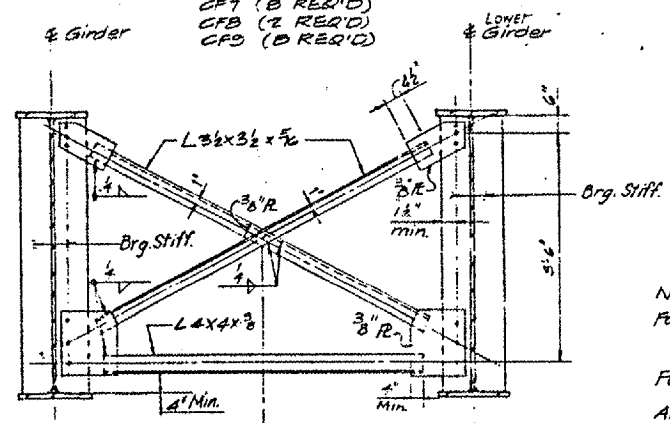
**END CROSS FRAME - CF7, CF8 & CF9**  
 CF7 (8 REQ'D)  
 CF8 (2 REQ'D)  
 CF9 (8 REQ'D)



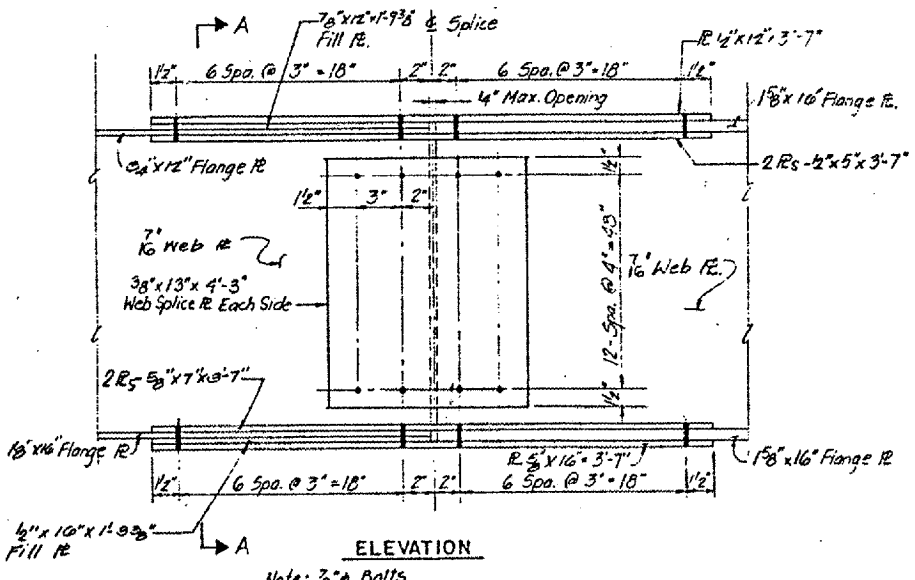
**BOTTOM PLAN**



**TOP PLAN**

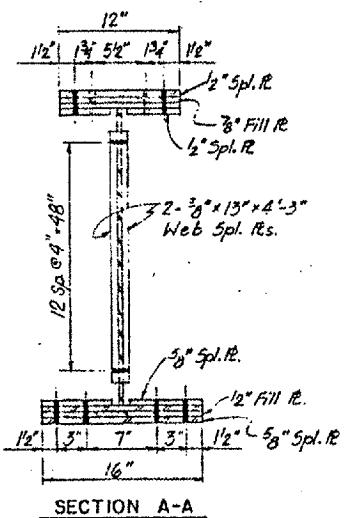


**CROSS FRAME - CF10, CF11 & CF12**  
 CF10 (8 REQ'D)  
 CF11 (2 REQ'D)  
 CF12 (8 REQ'D)

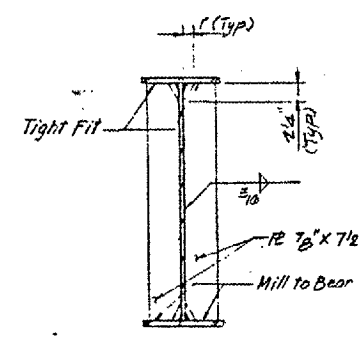


**ELEVATION**  
 Note: 3/8" Bolts

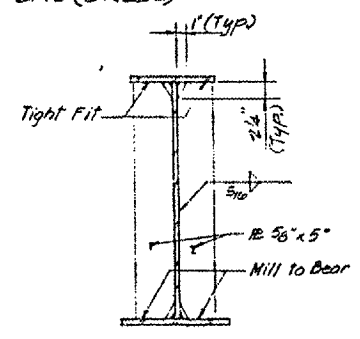
**TYPICAL GIRDER SPLICE**



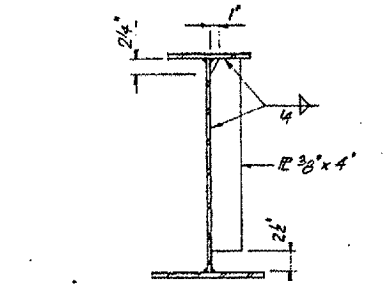
**SECTION A-A**



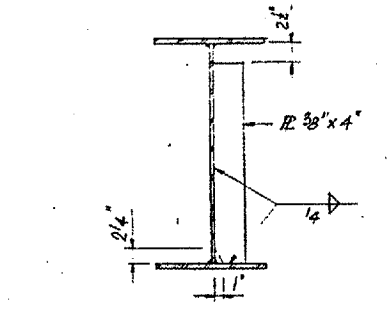
**BEARING STIFFENER AT PIERS**



**BEARING STIFFENER AT ABUTMENTS**



**INTERMEDIATE STIFFENER IN SPANS**



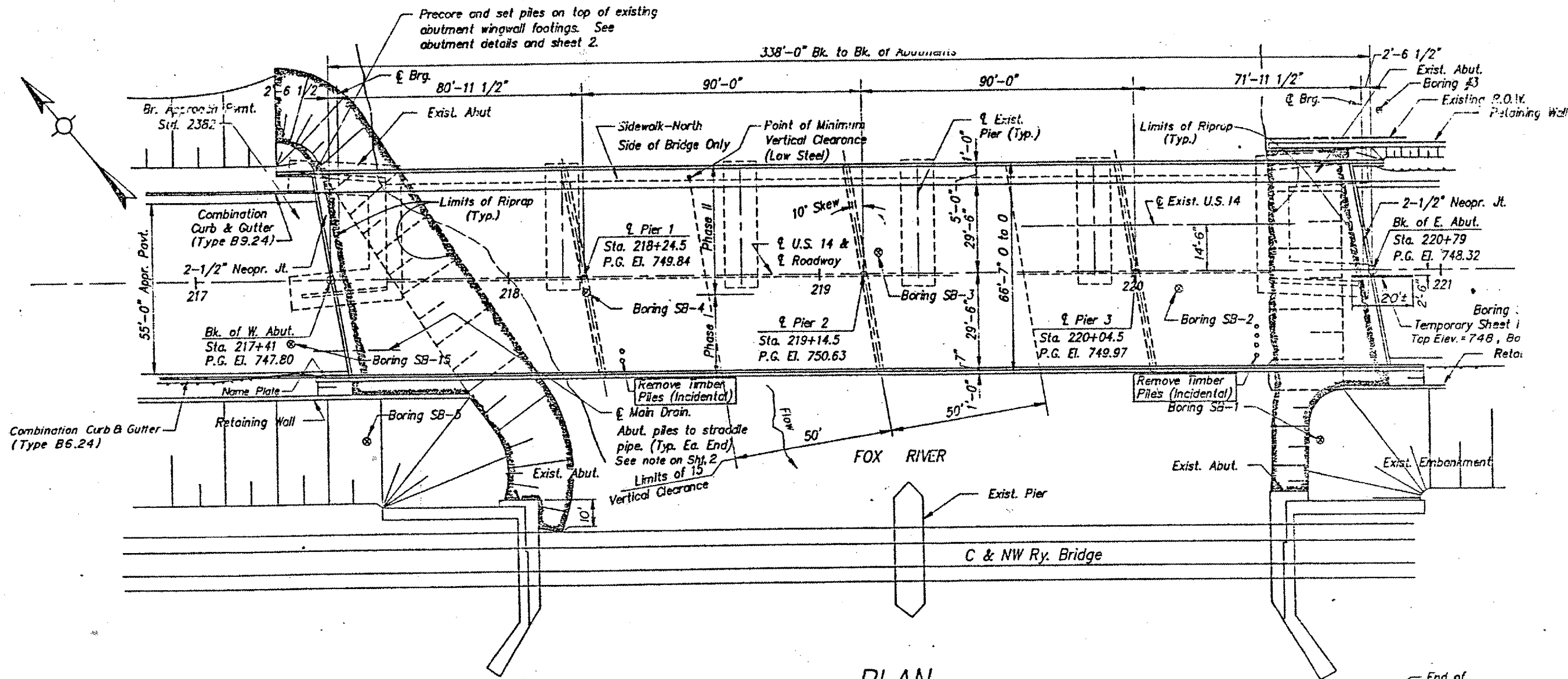
**INTERMEDIATE STIFFENER NEAR PIERS**

**Notes:**  
 For Cross frame Connection:  
 Use 1 1/2" gussets for all 3/8" bolts. Hardened washers shall be required over all bolts in cross frame.  
 For Girder Splice:  
 1 1/2" x 13" x 4'-3" web splice R. Each side.  
 15/16" x 13" x 4'-3" web splice R. Each side.  
 All bolts to be M-16 F.  
 1/2" long slotted holes, 1/8" wider than bolt diameter shall be used in one of the connected parts between girder 5 and 6. These slotted holes shall have 5/16" structural plate washers placed over them.  
 The bolts for the slotted holes shall only be finger-tightened prior to the deck slab pouring and then be fully tightened after the completion of the pouring.

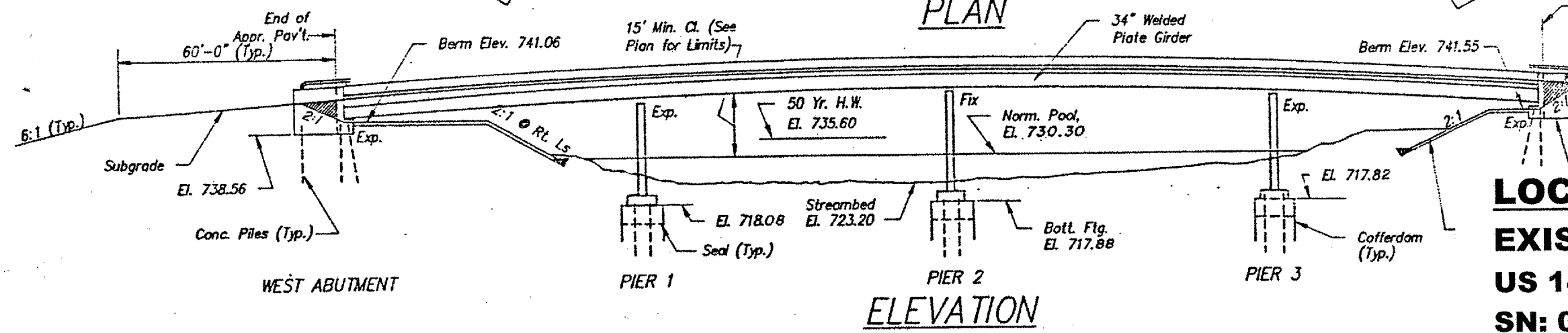
**LOCATION NO. 4**  
**EXIST. BRIDGE PLANS**  
**ILL. 62 OVER FOX RIVER**  
**SN: 056-0059**

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2006-018 BP	VARIOUS	27	18

CONTRACT NO.: 60B43



PLAN

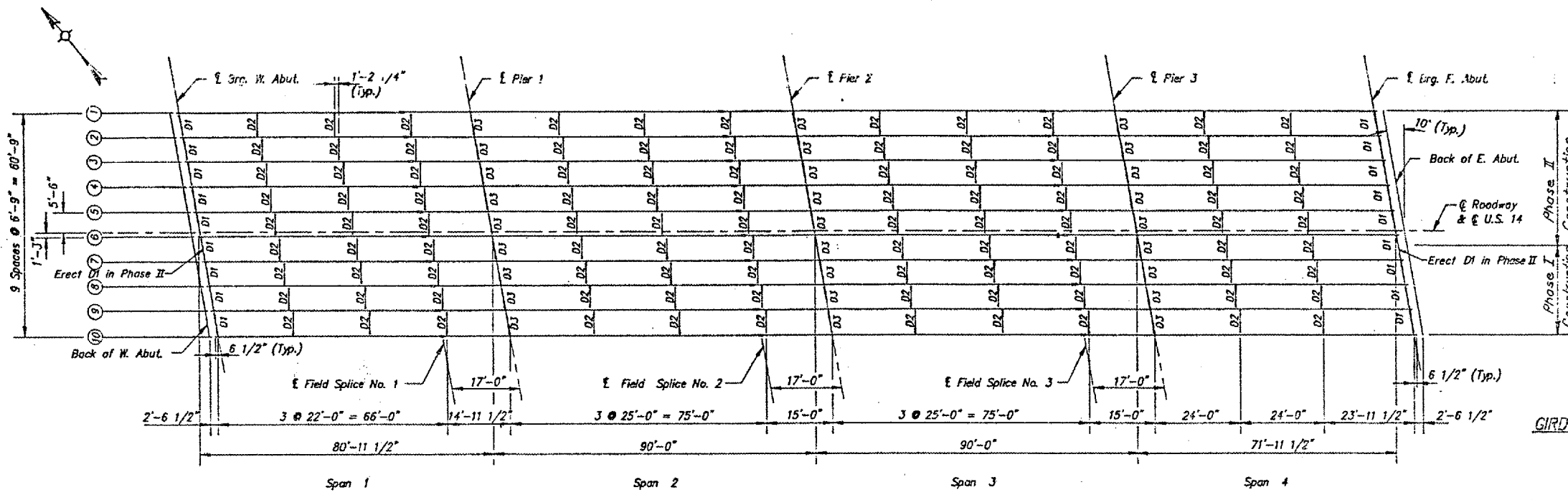


ELEVATION

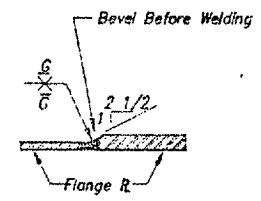
**LOCATION NO. 5**  
**EXIST. BRIDGE PLANS**  
**US 14 OVER FOX RIVER**  
**SN: 056-0058**

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2006-018 BP	VARIOUS	27	19

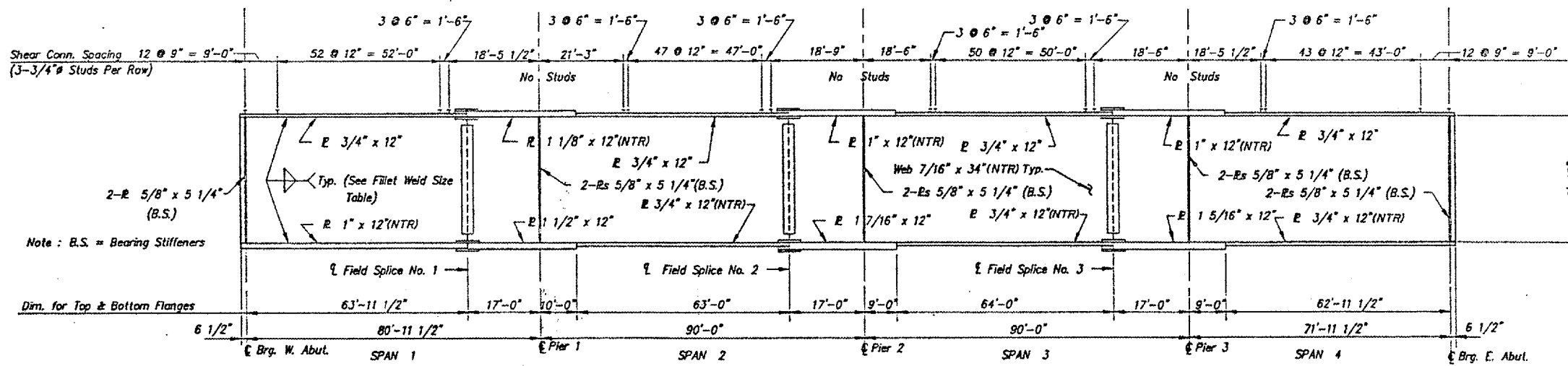
CONTRACT NO.: 60B43



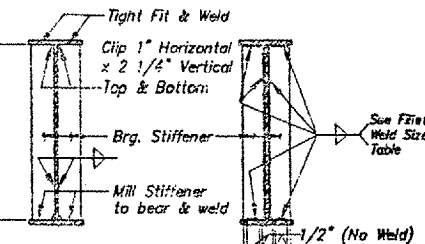
FRAMING PLAN



GIRDER SHOP WELD DETAIL



GIRDER ELEVATION

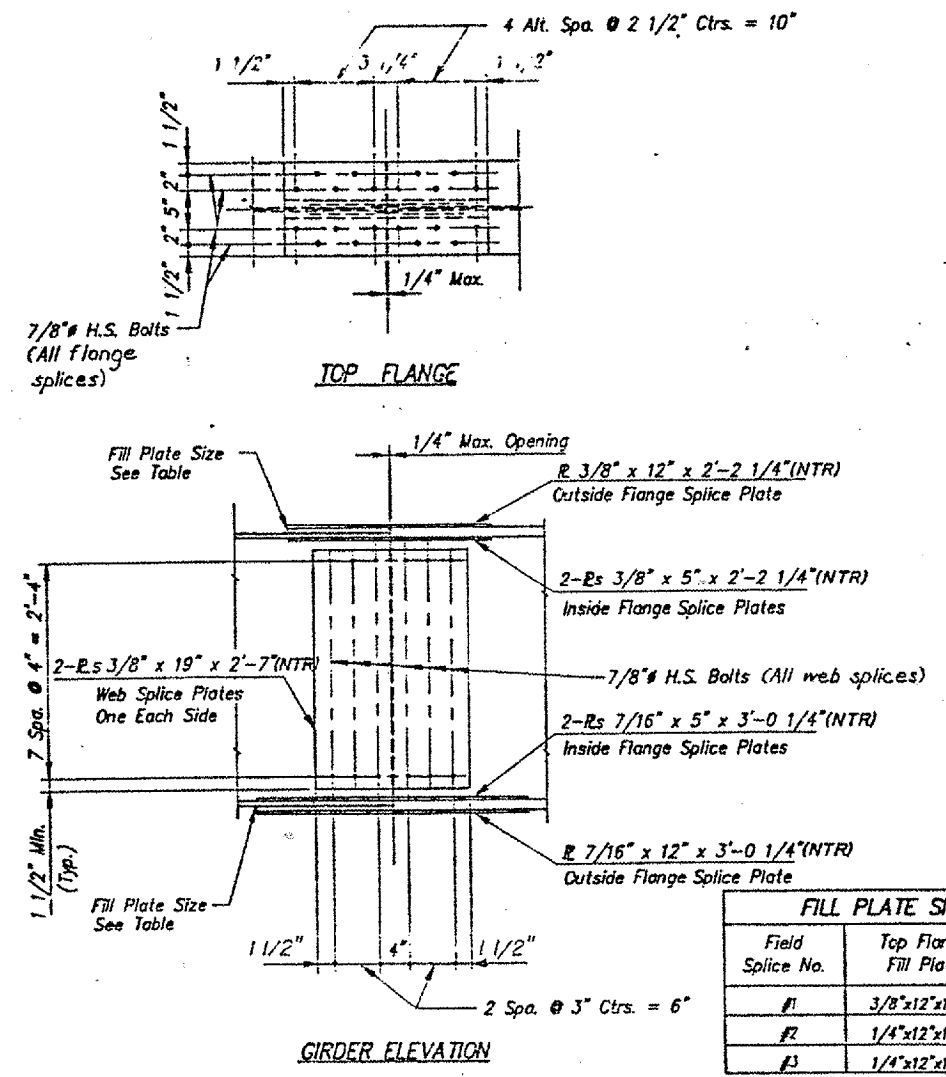


SECTION AT BRG. STIFFENER

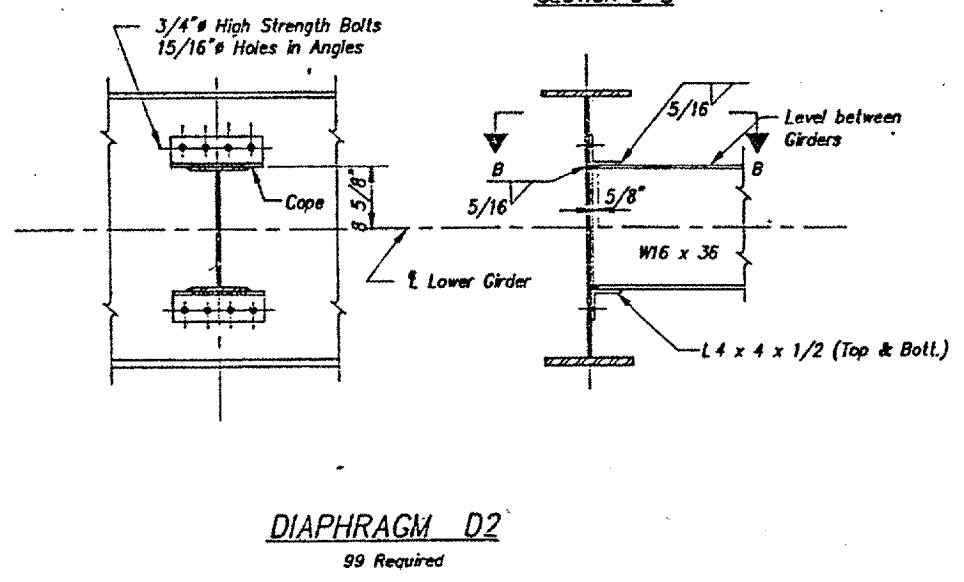
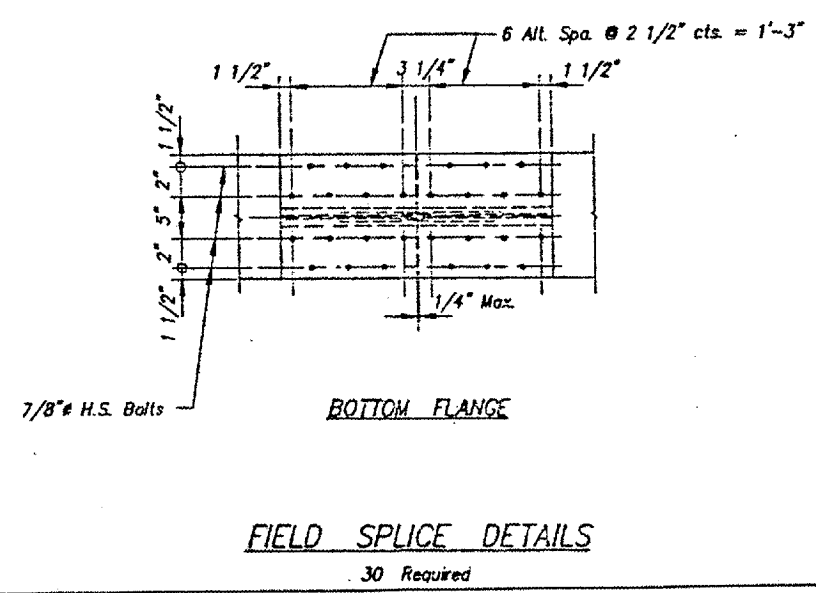
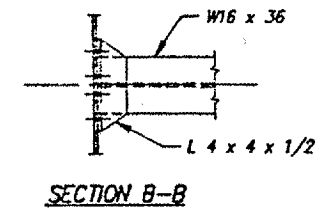
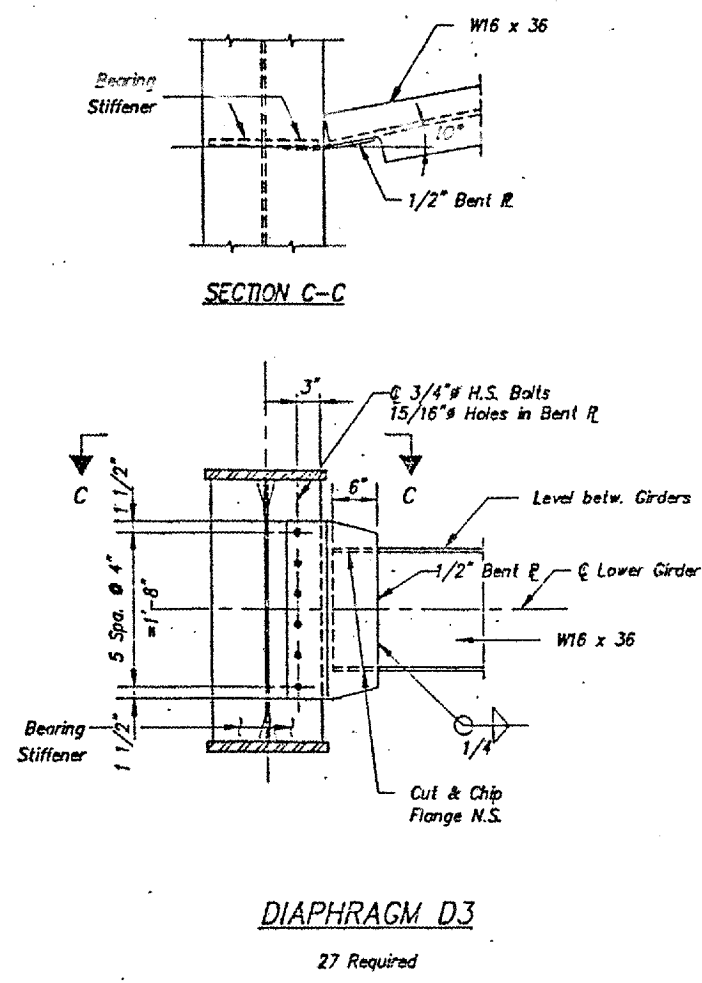
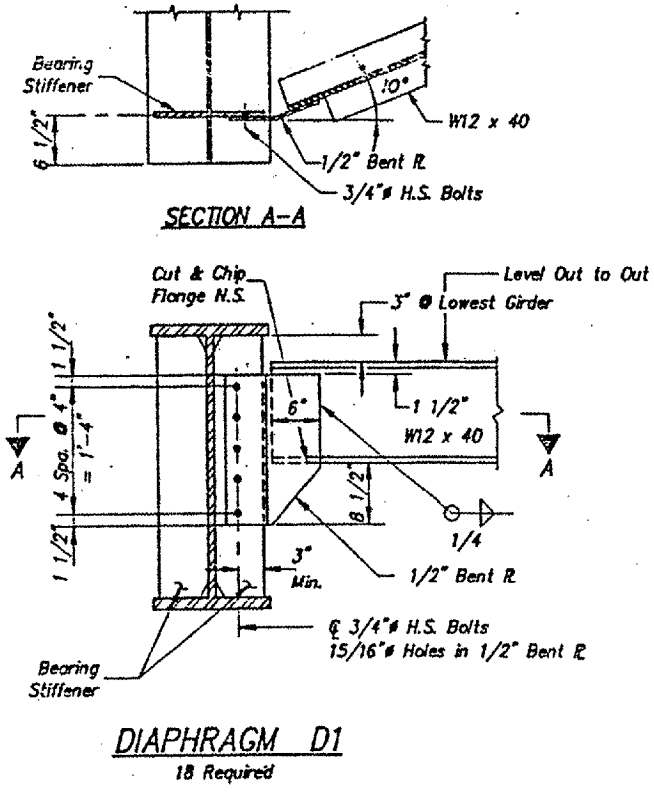
**LOCATION NO. 5**  
**EXIST. BRIDGE PLANS**  
**US 14 OVER FOX RIVER**  
**SN: 056-0058**

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2006-018 BP	VARIOUS	27	20

CONTRACT NO.: 60B43



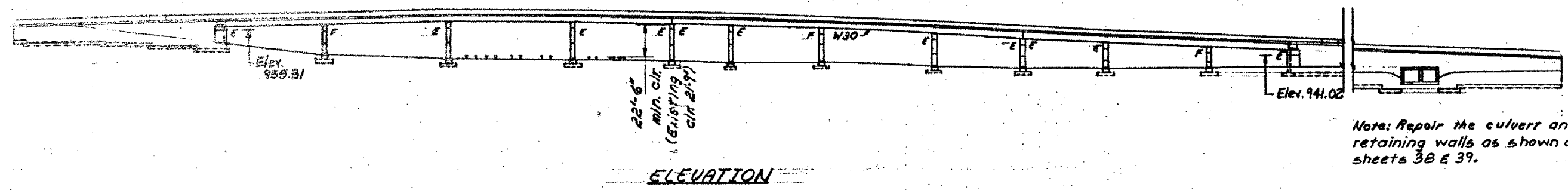
Field Splice No.	Top Flange Fill Plate	Bottom Flange Fill Plate
#1	3/8"x12"x1'-1"	1/2"x12"x1'-6"
#2	1/4"x12"x1'-1"	11/16"x12"x1'-5"
#3	1/4"x12"x1'-1"	9/16"x12"x1'-5"



**LOCATION NO. 5**  
**EXIST. BRIDGE PLANS**  
**US 14 OVER FOX RIVER**  
**SN: 056-0058**

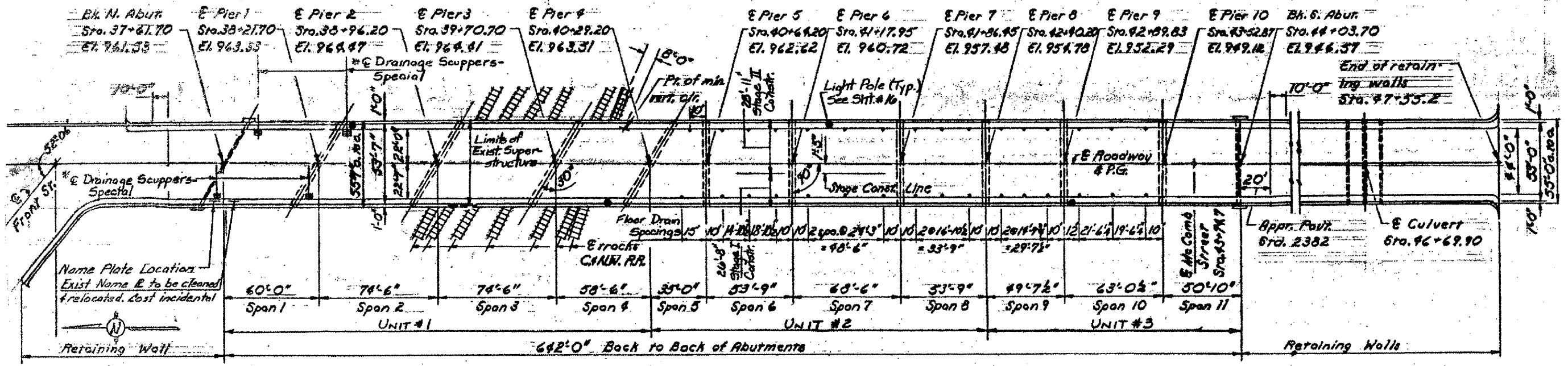
ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2006-018 BP	VARIOUS	27	21

CONTRACT NO.: 60B43



Note: Repair the culvert and retaining walls as shown on sheets 38 & 39.

\* See sheet #9 for location of Drainage Scuppers



**LOCATION NO. 6**  
**EXIST. BRIDGE PLANS**  
**US 14 OVER RR AND MCOOB**  
**SN: 056-0007**

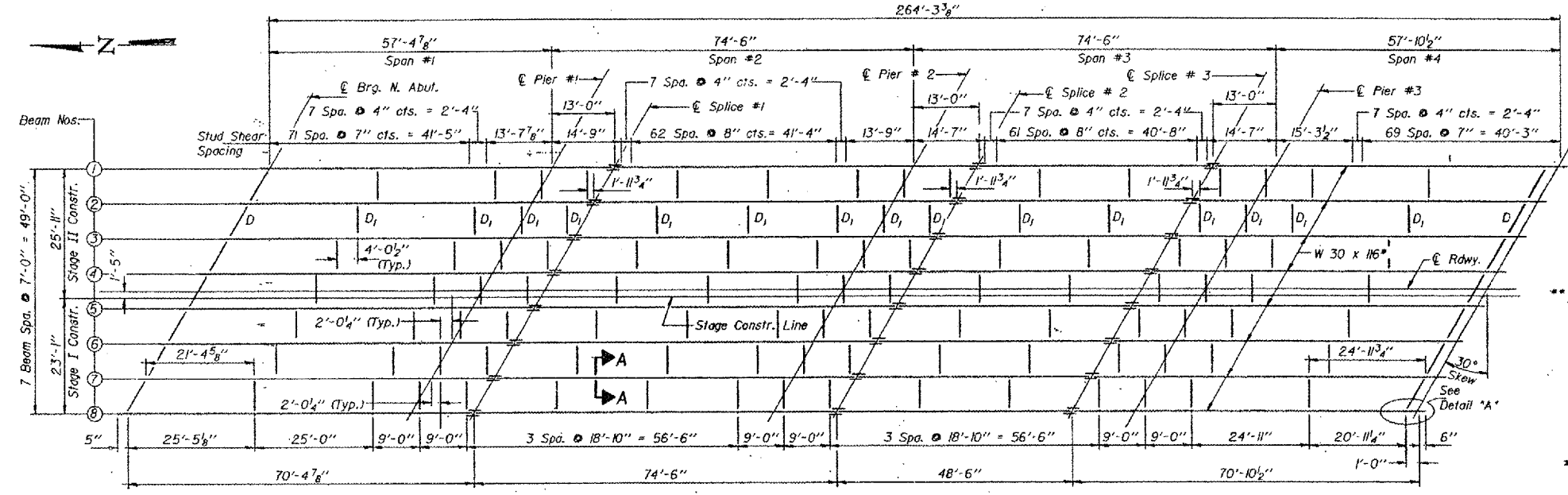
ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2006-018 BP	VARIOUS	27	22

CONTRACT NO.: 60B43

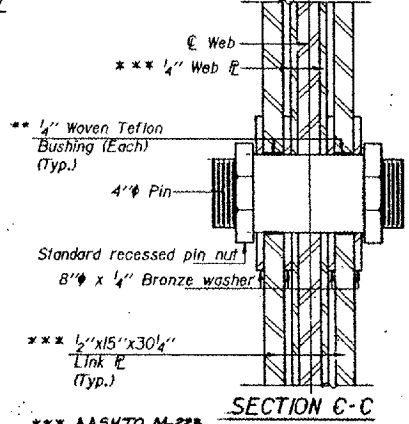
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DATE	REVISION	BY	NO.	DATE
			39	

SHEET NO. 20  
39 SHEETS



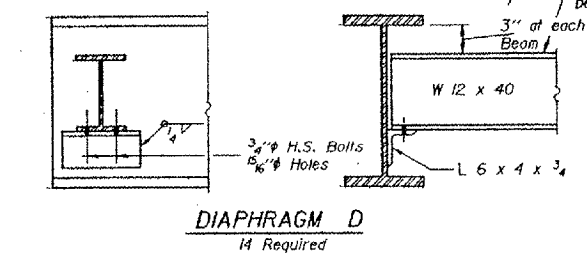
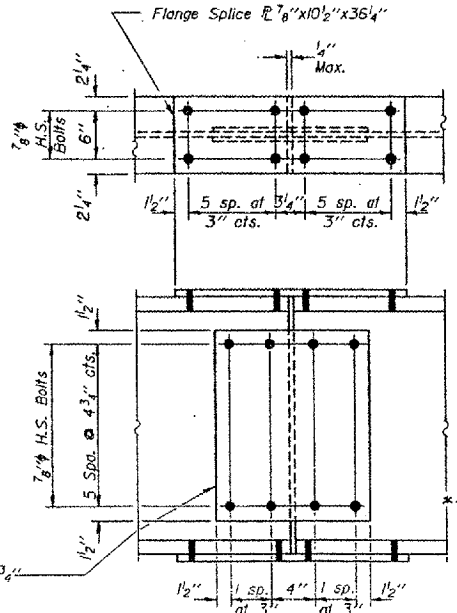
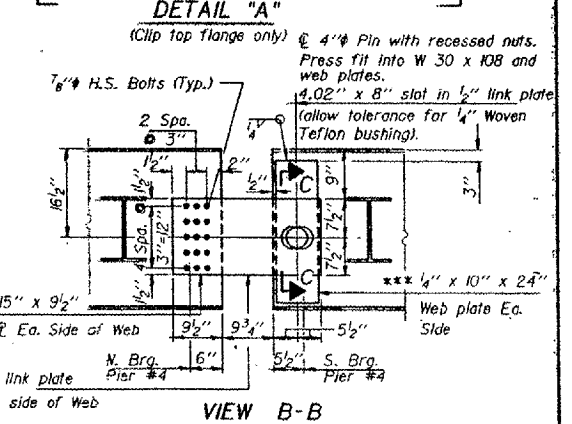
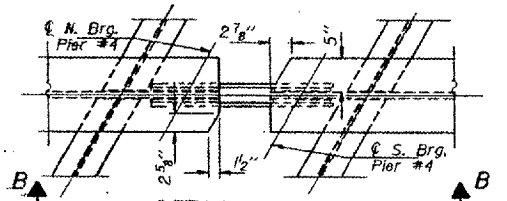
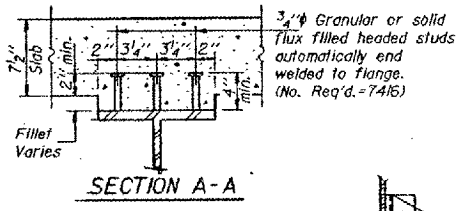
**PIN DETAIL**  
Pin shall be case hardened. See Standard Specifications.



**FRAMING PLAN**  
Unit #1 - Spans #1-#4

- \* W 30 x 116 (AASHTO M-223, Grade 50) for all Beams in Unit #1.
- \*\* Self lubricating filament wound epoxy matrix backed Duralon bearing or metal backed Fiber Glide bearing or equivalent. Cost incidental to Structural Steel.

Diaphragm D at the Stage Constr. Joint shall be placed during Stage II Construction. See Sheet #2 for details.



DESIGNED: Steven K. DeCarra, TJD.

CHECKED: David Bendick

DRAWN: Ron Bohner, E.V. Taylor

CHECKED: TJD, D.B.

1-2-D 8-30-80

EXAMINED: James J. [Signature]

PASSED: [Signature]

APPROVED: [Signature]

DATE: May 31, 1984

Note: Two hardened washers shall be required over all 1 1/2" holes. All contact surfaces of joints shall be free of paint or lacquer. All structural steel shall be AASHTO M-183 except as noted.

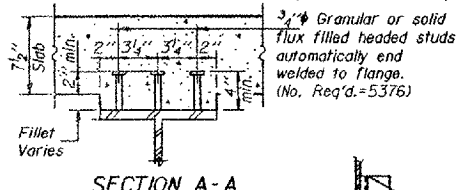
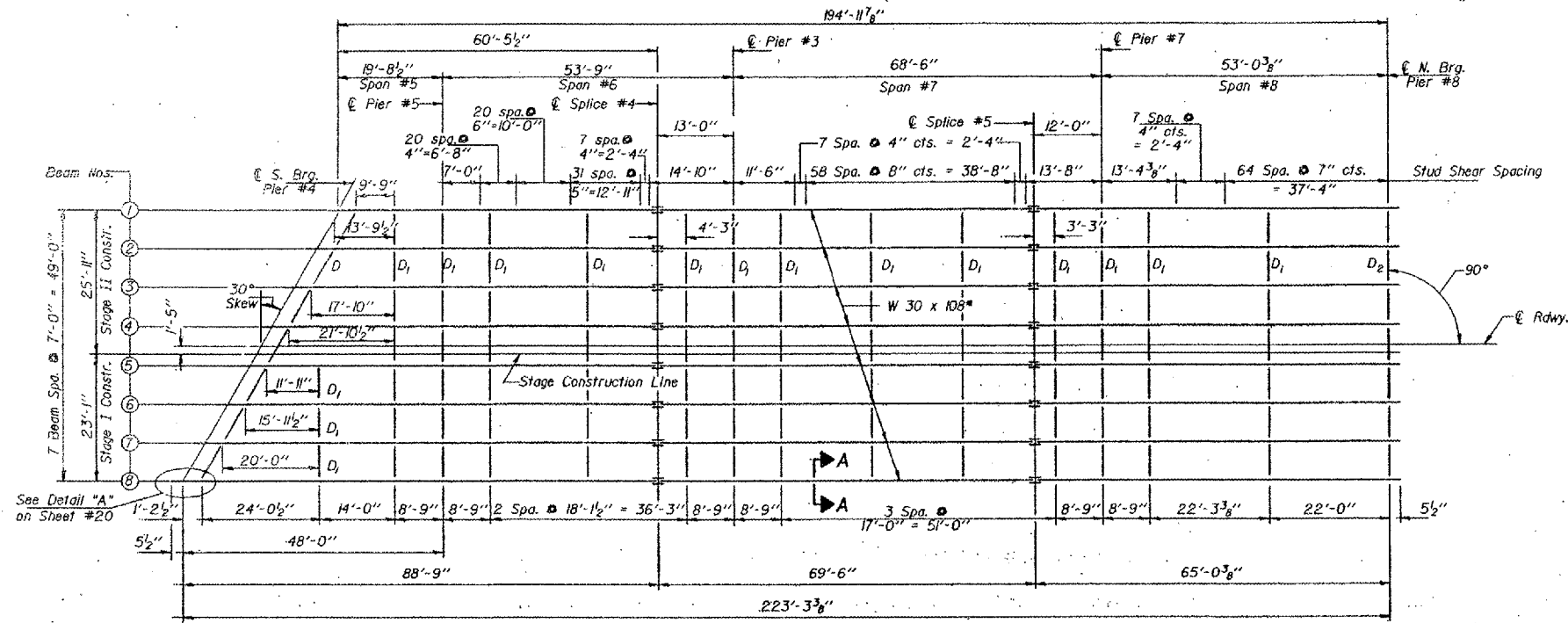
**LOCATION NO. 6**  
**EXIST. BRIDGE PLANS**  
**US 14 OVER RR AND MCOOB**  
**SN: 056-0007**

ROUTE VARIOUS	SECTION 2006-018 BP	COUNTY VARIOUS	TOTAL SHEETS 27	SHEET NUMBER 23
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CONTRACT NO.: 60B43

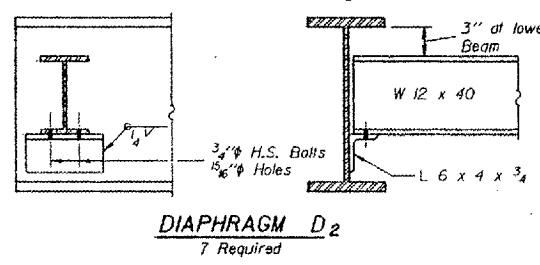
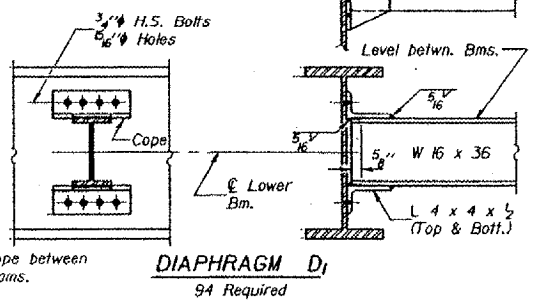
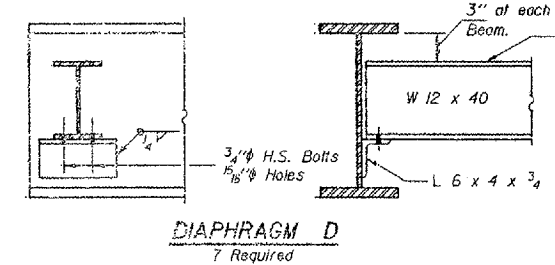
DATE	BY	NO.	REV.	DATE	BY	NO.	REV.
							SHEET NO. 21 39 SHEETS

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

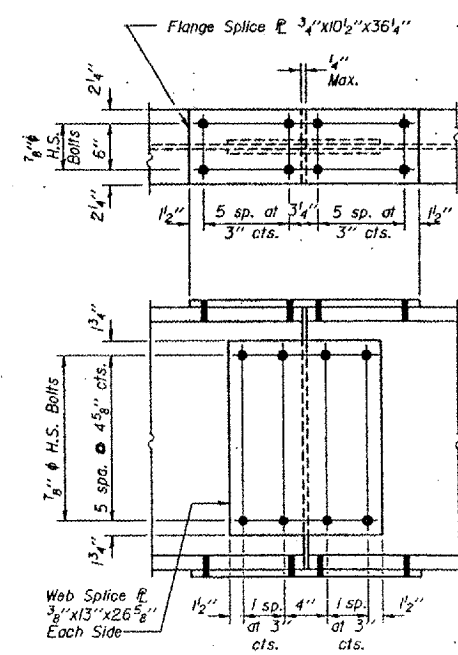


FRAMING PLAN  
(Unit #2 - Spans #5 - #8)

\* W 30 x 108 (AASHTO M-223, Grade 50) for all Beams in Unit #2.  
Diaphragm D and D<sub>2</sub> at the Stage Construction Joint shall be placed during Stage II Construction. See Sheet #2 for details.



Note: Two hardened washers shall be required over all 5/16 inch holes.  
All contact surfaces of joints shall be free of paint or lacquer.  
All structural steel shall be AASHTO M-183 except as noted.



DESIGNED: Steven K. Dornal  
CHECKED: David Bursick  
DRAWN: E.V. Insler  
1-2-D 8-30-80

EXAMINED: James J. [Signature]  
PASSED: [Signature]  
APPROVED: [Signature]  
MAY 31 1984

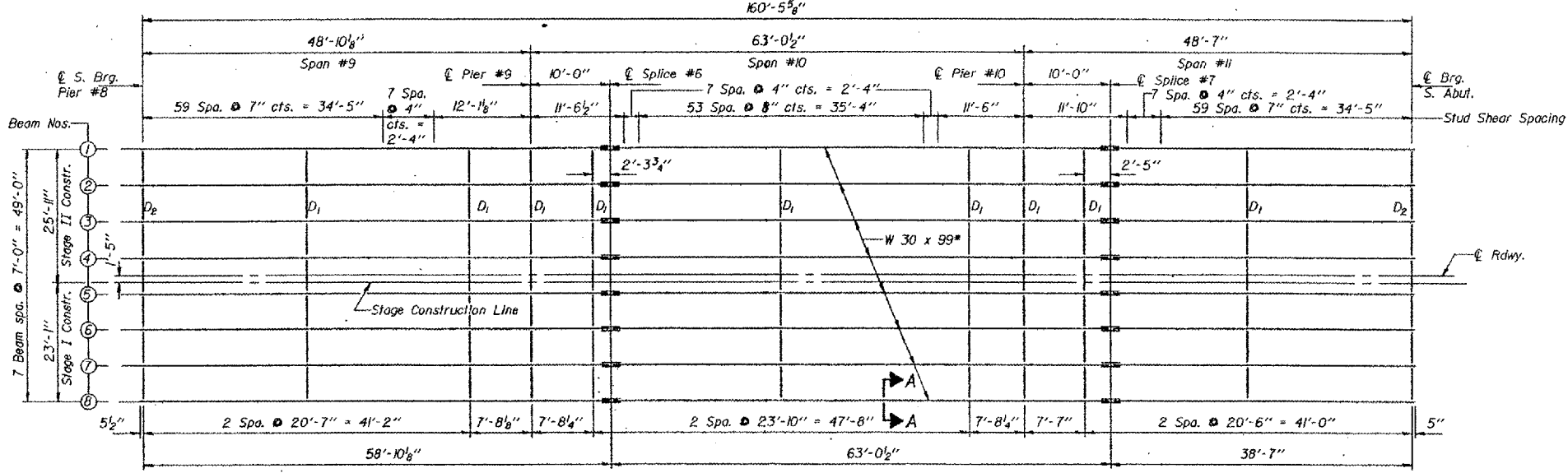
**LOCATION NO. 6**  
**EXIST. BRIDGE PLANS**  
**US 14 OVER RR AND MCOOB**  
**SN: 056-0007**

ROUTE VARIOUS	SECTION 2006-018 BP	COUNTY VARIOUS	TOTAL SHEETS 27	SHEET NUMBER 24
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CONTRACT NO.: 60B43

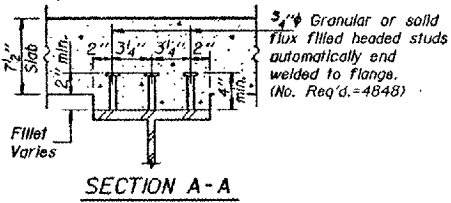
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DATE	BY	CHKD	DATE	NO.
SHEET NO. 22				39 SHEETS



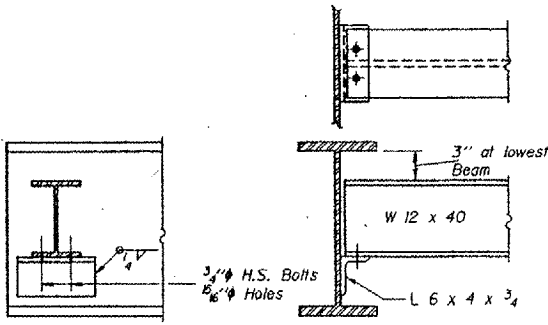
FRAMING PLAN

(Unit #3 - Spans #9-#10)

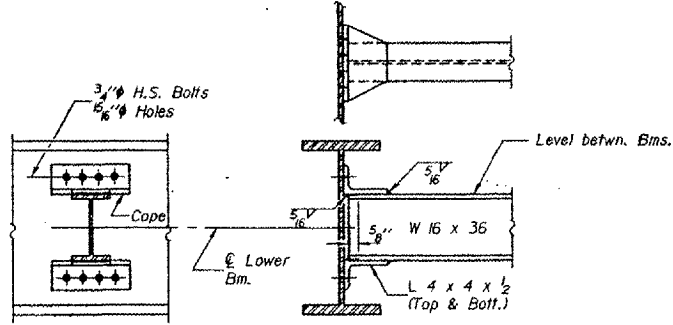


SECTION A-A

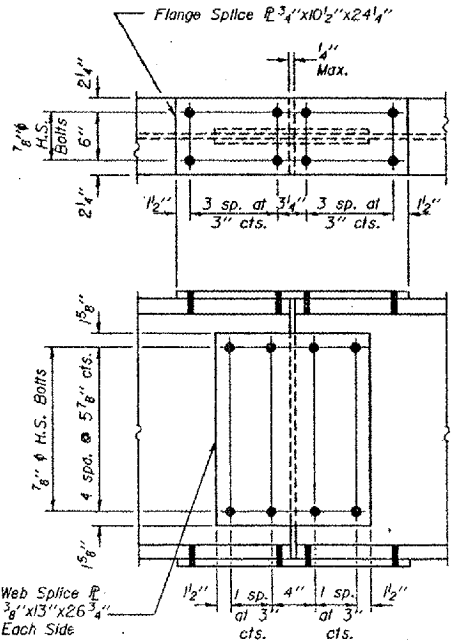
\* W 30 x 99 (AASHTO M-223, Grade 50)  
for all Beams in Unit #3.  
Diaphragm D<sub>2</sub> at the Stage Construction Joint shall be placed during Stage II Construction. See Sheet #2 for details.



DIAPHRAGM D<sub>2</sub>  
14 Required



DIAPHRAGM D<sub>1</sub>  
63 Required



SPICES #6 & #7  
(AASHTO M-223, Grade 50)

DESIGNED Steven R. Druver	EXAMINED MAY 31 1984 James J. Ruppel
CHECKED David Buchler	PASSED [Signature]
DRAWN E.V. Taylor	APPROVED [Signature]
CHECKED TJD	DIRECTOR OF HIGHWAYS

Note: Two hardened washers shall be required over all 5/8" holes.  
All contact surfaces of joints shall be free of paint or lacquer.  
All structural steel shall be AASHTO M-183 except as noted.

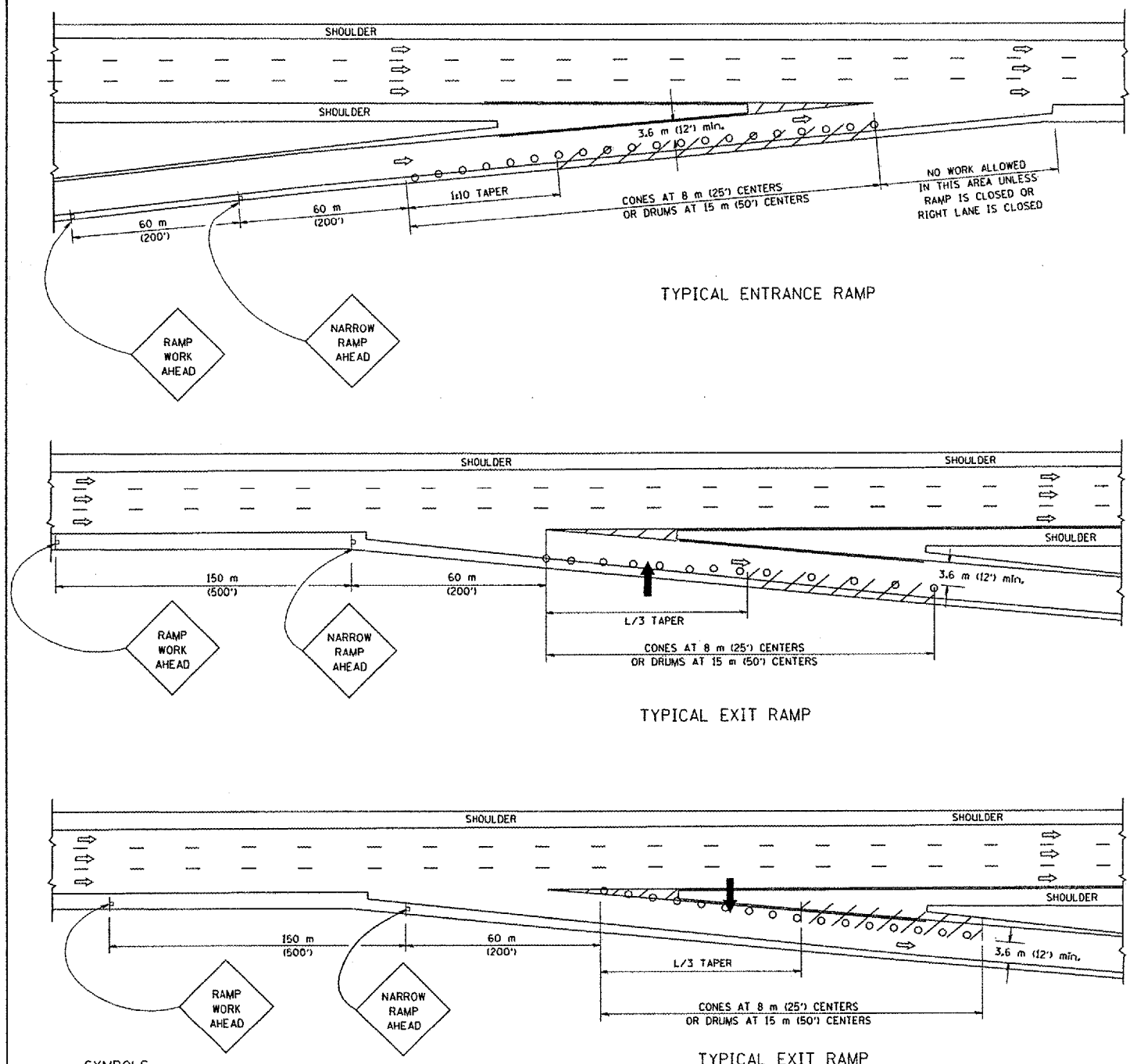
**LOCATION NO. 6**  
**EXIST. BRIDGE PLANS**  
**US 14 OVER RR AND MCOOB**  
**SN: 056-0007**



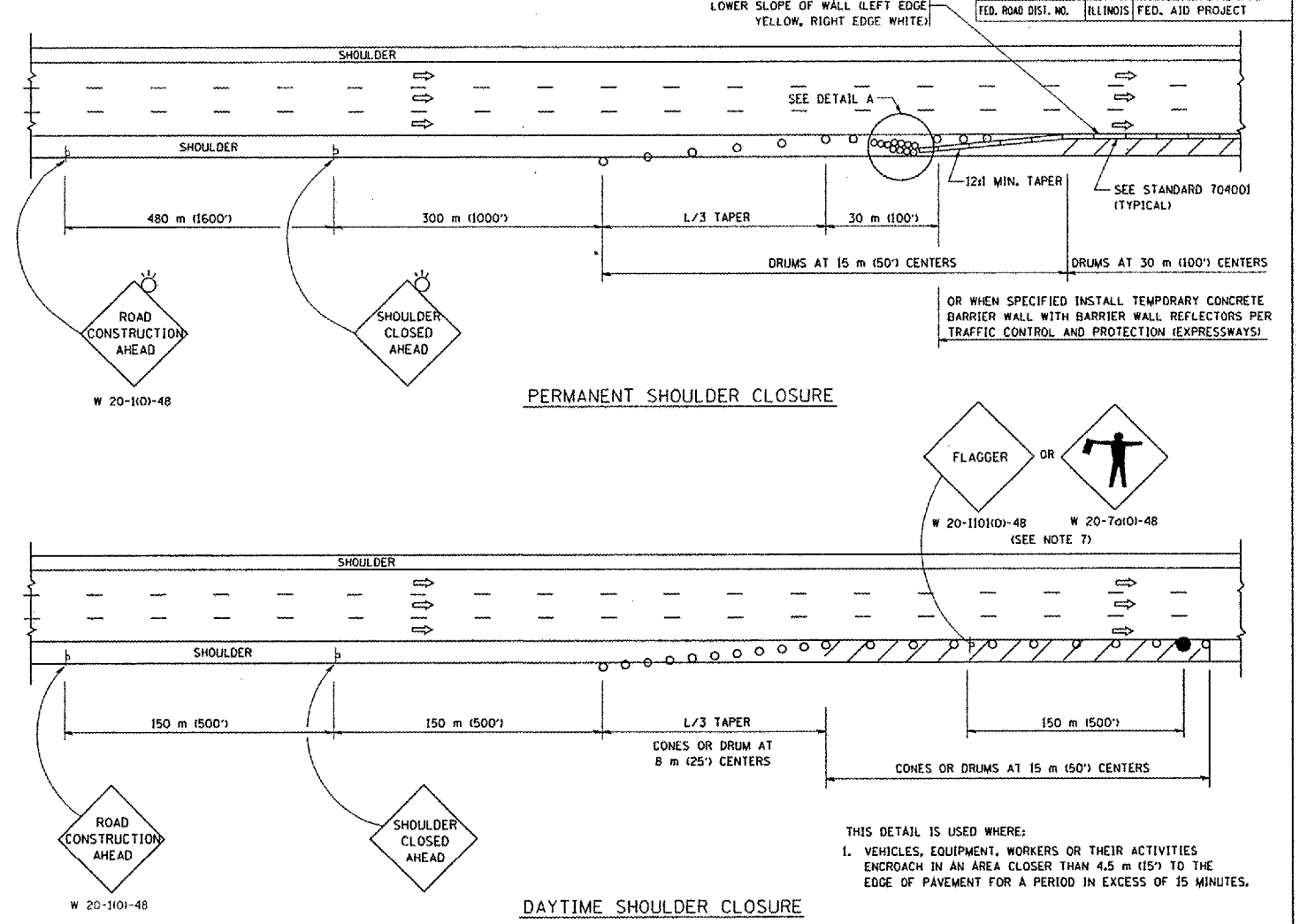
CREATED: 03-23-95

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAE 2000-0180	VAE		27	25
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

PARTIAL RAMP CLOSURE DETAILS



SHOULDER CLOSURE DETAILS



SYMBOLS

- ARROWBOARD
- WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- DRUM WITH MONO-DIRECTIONAL STEADY BURNING LIGHT
- CONES - 700 (28) IN HEIGHT

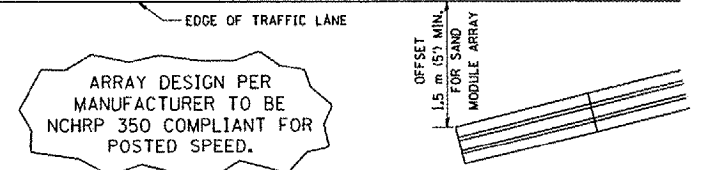
GENERAL NOTES

1. THE "L" DISTANCE EQUALS:
 

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

W = WIDTH OF OFFSET IN METERS (FEET)  
S = NORMAL POSTED SPEED KM/H (MPH)
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.

5. THE IMPACT ATTENUATOR, TEMPORARY IS NOT REQUIRED WHEN THE TEMPORARY CONCRETE BARRIER WALL IS PROTECTED BY OR IS TIED INTO THE EXISTING GUARDRAIL. IF OFFSET IS LESS THAN 5 FEET USE "TRAFFIC BARRIER TERMINAL, TYPE III, TEMPORARY" DEVICE TO MEET NCHRP350 FOR POSTED SPEED.
6. AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL FREEWAY CLOSURES.
7. THE FLAGGER AND FLAGGER SIGN ARE REQUIRED AT THE ABOVE WORK SITES WHEN:
  - a. FOUR OR MORE WORK VEHICLES ENTER THE TRAFFIC LANES IN A ONE HOUR PERIOD.
  - b. THE WORK ACTIVITY REQUIRES FREQUENT ENCR OACHMENT INTO THE LANE OPEN TO TRAFFIC.
 THE FLAGGER SHALL BE STATIONED APPROXIMATELY 30 m (100') TO 60 m (200') IN ADVANCE OF THE WORKERS.



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

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

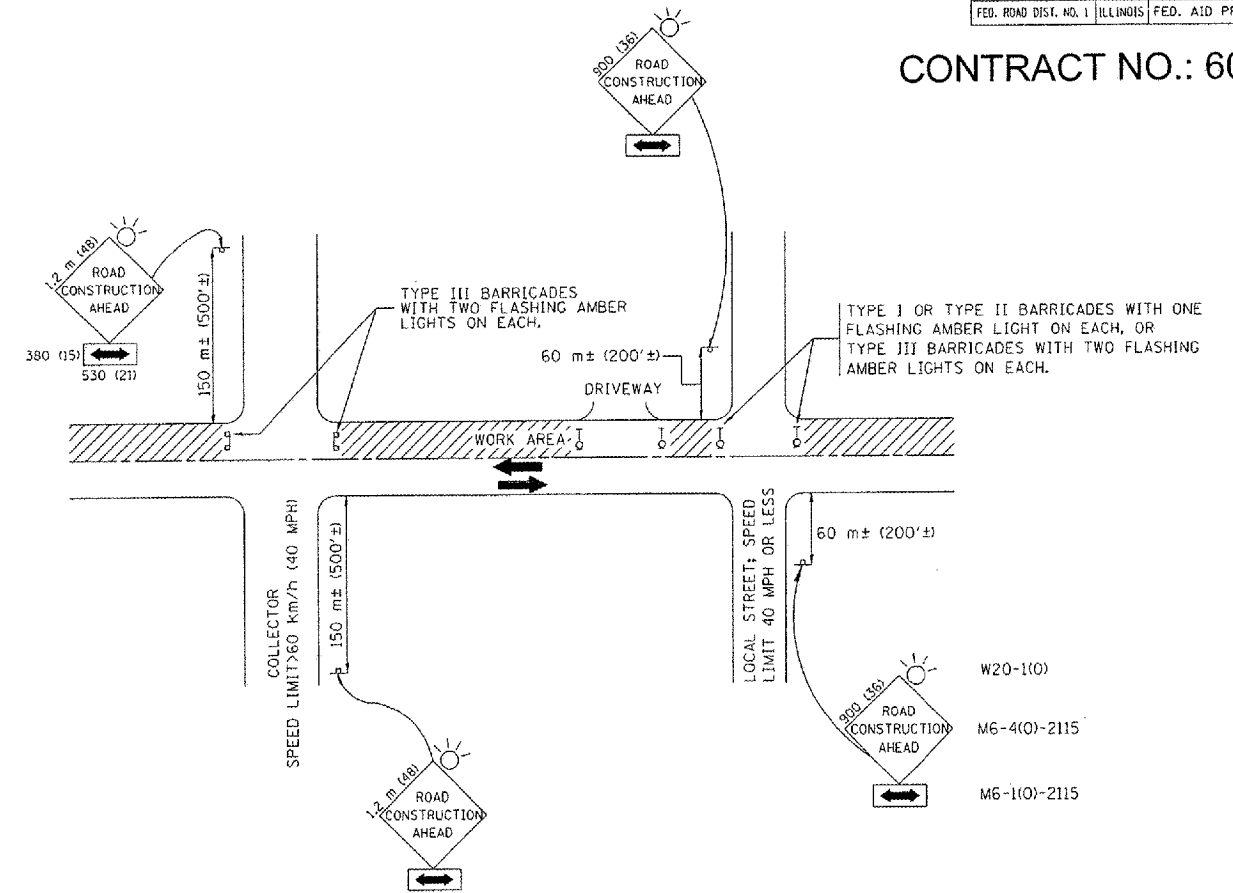
REVISIONS	
NAME	DATE
DWS	11/96
JAF	12/02
NCHRP 350	04/03
JAF	2/06

ILLINOIS DEPARTMENT OF TRANSPORTATION  
TRAFFIC CONTROL DETAILS  
FOR FREEWAY  
SHOULDER CLOSURES  
PARTIAL RAMP CLOSURES  
DESIGNED BY: DWS  
DRAWN BY  
CHECKED BY  
TC-17  
SCALE: NONE  
DATE: 3/1/2006

PLOT DATE: 3/1/2006  
 FILE NAME: K:\dwt\va017.dgn  
 PLOT SCALE: 50.0000 / IN.  
 USER NAME: jafps

F.A. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAL 200-0888	VAL		27	26
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

CONTRACT NO.: 60B43



TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

NOTES:

A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS

1. SIDE ROAD WITH A SPEED LIMIT OF 60 km/h (40 MPH) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:

a) ONE ROAD CONSTRUCTION AHEAD SIGN 900x900 (36x36) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 60 m (200') IN ADVANCE OF THE MAIN ROUTE.

b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.

2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 60 km/h (40 MPH) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:

a) ONE ROAD CONSTRUCTION AHEAD SIGN 1.2 m x 1.2 m (48x48) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 150 m (500') IN ADVANCE OF THE MAIN ROUTE.

b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.

3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).

B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:

USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 70150), STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.

C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.

D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

REVISIONS	
NAME	DATE
LHA	6/89
T. RAMMACHER	09/08/94
J. OBERLE	10/18/95
A. HOUSEH	03/06/96
A. HOUSEH	10/15/96
T. RAMMACHER	01/06/00

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 TRAFFIC CONTROL AND PROTECTION  
 FOR  
 SIDE ROADS, INTERSECTIONS, AND  
 DRIVEWAYS

VERT.  
 SCALE: HORIZ.  
 DATE 10/18/2002

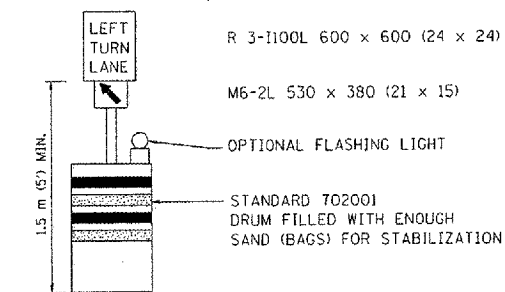
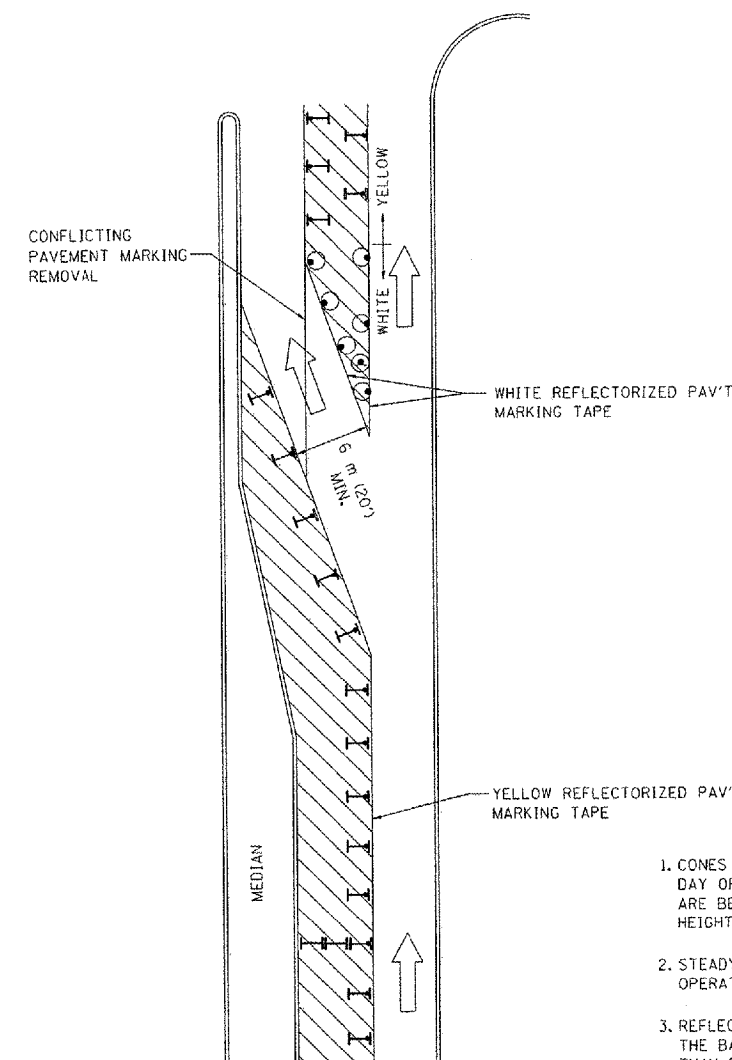
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 CHECKED BY

TC-10

REVISION DATE: 01/06/00

F.A. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR 200-088 VAR			27	27
STA.	TO STA.			
FED. AID DIST. NO.	ILLINOIS	FED. AID PROJECT		

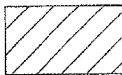





CONTRACT NO.: 60B43



GENERAL NOTES

1. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 710 (28) IN HEIGHT. WHEN CONES ARE BEING USED, THE "LEFT TURN LANE" SIGN MAY BE SKID MOUNTED AT A MINIMUM HEIGHT OF 1.5 m (5').
2. STEADY BURNING LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
3. REFLECTORIZED TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE BARRICADED AREA OF EACH TURN BAY WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS.
4. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-100 600 x 600 (24 x 24) AND M6-2R 530 x 380 (21 x 15) SHALL BE USED.
5. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
6. LONGITUDINAL DIMENSIONS MAY BE ADJUSTED TO FIT FIELD CONDITIONS.
7. FORM BT 725 IS REQUIRED.
8. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

LEGEND

-  WORK AREA
-  LANE OPEN TO TRAFFIC
-  TYPE I OR II BARRICADE WITH STEADY BURN LIGHT
-  DRUM WITH STEADY BURN LIGHT
-  DRUM WITH SIGN (WITH OPTIONAL FLASHING LIGHT) SEE DETAIL
-  TYPE I OR II CHECK BARRICADE WITH FLASHING LIGHT

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

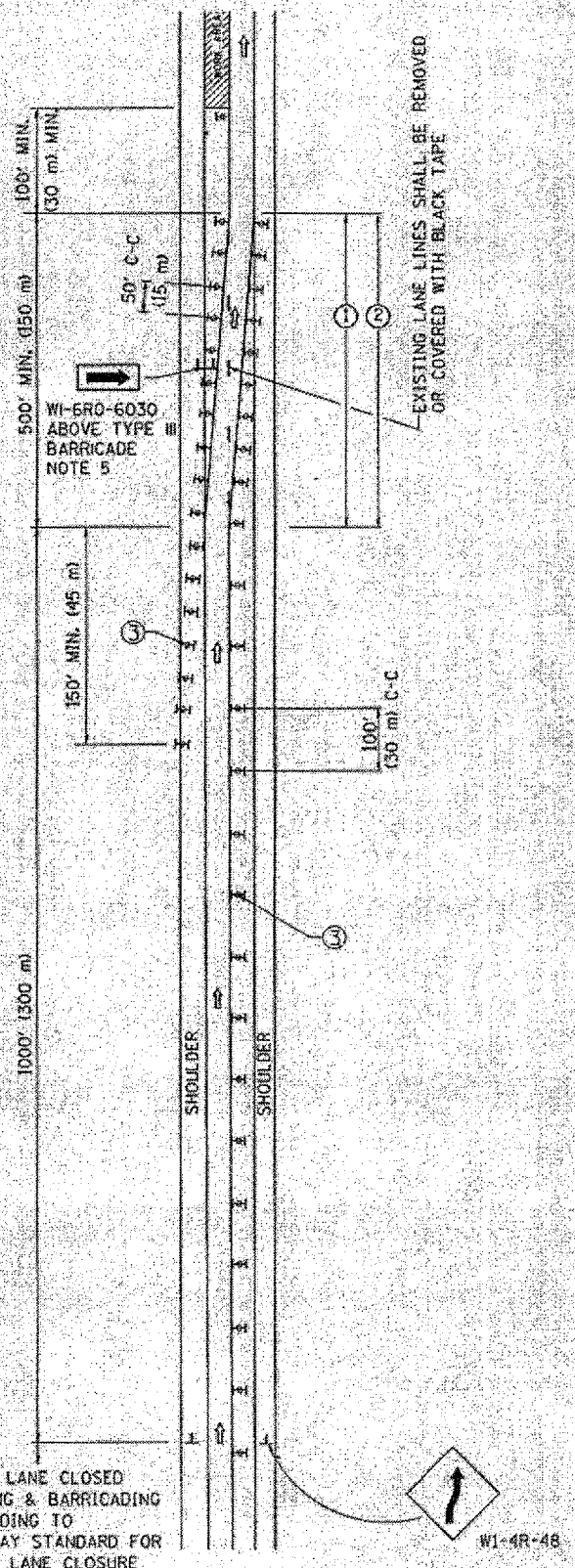
REVISIONS	
NAME	DATE
T. RAMMACHER	09/08/94
A. HOUSEH	11/07/95
A. HOUSEH	10/12/96
T. RAMMACHER	01/06/00

ILLINOIS DEPARTMENT OF TRANSPORTATION  
TRAFFIC CONTROL AND PROTECTION  
AT TURN BAYS  
(TO REMAIN OPEN TO TRAFFIC)

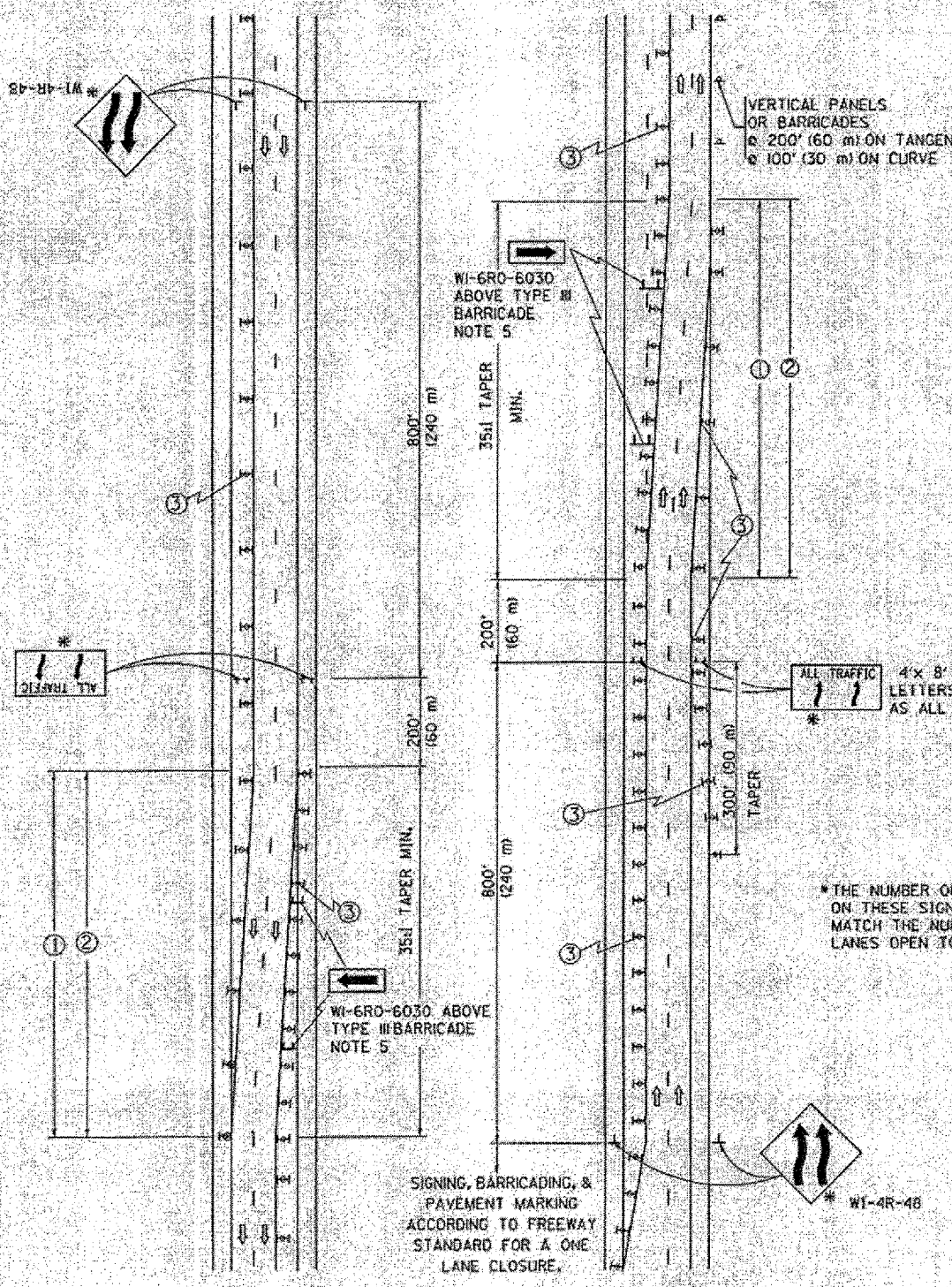
SCALE: NONE  
DATE: 10/18/2002

DRAWN BY  
CHECKED BY LHA  
TC-14

**SINGLE LANE WEAVE**



**MULTI-LANE WEAVE**



VERTICAL PANELS OR BARRICADES  
 @ 200' (60 m) ON TANGENT  
 @ 100' (30 m) ON CURVE

**GENERAL NOTES**

- ① EXISTING CONFLICTING PAVEMENT MARKING LINES SHALL BE REMOVED OR COVERED WITH BLACK TAPE. PAVEMENT MARKING REMOVAL OR BLACK TAPE SHALL NOT BE REQUIRED FOR LANE CLOSURES UNDER 24 HOURS IN DURATION.
- ② 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 WEAVE LANE LINES SHALL BE 10'-30' (3 m-9 m) SKIP DASH, WHITE.
- ③ PLASTIC DRUMS WITH STEADY BURN LIGHTS AT 50' (15 m) C-C SPACING IN TAPERS AND 100' (30 m) C-C SPACING IN TANGENTS.
- ④ ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
- ⑤ 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 DIRECTLY IN FRONT OF THE BARRICADE.
- ⑥ 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.

**SYMBOLS**

- ↑ DIRECTION OF TRAFFIC
- ▨ WORK AREA
- ⊥ SIGN ON PORTABLE OR PERMANENT SUPPORT
- ⊠ TYPE II BARRICADE, DRUM OR VERTICAL BARRICADE WITH MONO-DIRECTIONAL STEADY BURNING LIGHT

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

REVISIONS	
NAME	DATE
DWS	2/87
DWS	1/90
DWS	12/27/94
DWS	11/98
JAF	4/03
JAF	2/06
SPB	1/07

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**TRAFFIC CONTROL DETAILS FOR FREEWAY SINGLE & MULTI-LANE WEAVE**  
 SCALE: DATE: 4/2007  
 DRAWN BY: J.A.H.  
 CHECKED BY: TC-9  
 REVISION DATE: 01/01/07

PLT DATE: 1/17/2007  
 FILE NO: 60B13-VRP-27A-27B  
 USER: J.A.H.