

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2008-051 BP	COOK	38 + 4 = 42	1

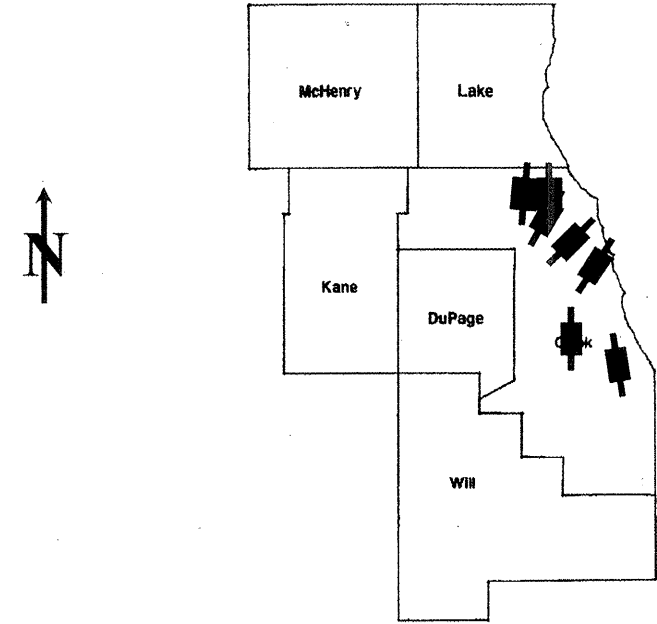
FOR INDEX OF SHEETS SEE SHEET 2

CONTRACT NO. 60F02  
D-91-564-08

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

**IMPROVEMENTS ARE LOCATED  
IN THE VILLAGE OF MORTON  
GROVE AND CITY OF CHICAGO**

VARIOUS ROUTES  
VARIOUS LOCATIONS  
SECTION 2008-051 BP  
BRIDGE PAINTING  
COOK COUNTY  
C-91-564-08



LOCATION OF IMPROVEMENT INDICATED THUS:

- LOCATION 1) SN 016-0827
- LOCATION 2) SN 016-0555
- LOCATION 3) SN 016-0725
- LOCATION 4) SN 016-2574
- LOCATION 5) SN 016-2045
- LOCATION 6) SN 016-0406
- LOCATION 7) SN 016-2535

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS**

SUBMITTED: OCTOBER 29 2008

*Diana M. O'Keefe* *as*  
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

December 5 20 08  
*Eric E. Horn* *RD*  
Interim ENGINEER OF DESIGN AND ENVIRONMENT

December 5 20 08  
*Christine M. Reed* *RD*  
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

**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 (312) 744-7000

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

**CONTRACT NO. 60F02**

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2008-051 BP	COOK	38	2

Contract 60F02

**INDEX OF SHEETS**

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ILLINOIS DEPARTMENT OF TRANSPORTATION

**INDEX OF SHEETS  
STATE STANDARDS**

*Rev.*

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2008-051 BP	COOK	38	3

CONTRACT NO. 60F02

### 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 HOUR 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, CITY OF CHICAGO AND VILLAGE OF MORTON GROVE.

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.

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/TOLLWAYS.

ILLINOIS DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2008-051 BP	COOK		4

Contract 60F02

### 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 TO MONITOR ABRASIVE BLASTING OPERATIONS PER LOCATIONS 1 (SN 016-0827), 2 (SN 016-0555), 3 (SN 016-0725), 5 (SN 016-2045), AND 6 (SN 016-0406) AND TWO (2) PER LOCATIONS 4 (SN 016-2574) AND 7 (SN 016-2535). SEE SPECIAL PROVISION FOR "CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUE."

THE SSPC-QP1 AND SSPC-QP2 PAINTING CONTRACTOR CERTIFICATIONS WILL 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 AND THE STEEL BENTS 1E, 1W, 2E & 2W AT LOCATION 5 AND THE CROSS GIRDERS BETWEEN THE FACIA BEAMS AT ALL THE BENTS AT LOCATION 7 AND THE HANDRAILS AND FENCE POSTS AT LOCATIONS 1& 3 AND THE APPROACH RAILINGS AT LOCATION 6 SHALL BE GRAY, MUNSELL NO 5B 7/1. THE COLOR OF THE FINAL FINISH COAT FOR THE EXTERIOR AND BOTTOM FLANGE OF THE FACIA BEAMS AND THE CROSS GIRDERS OUTSIDE OF THE FACIA BEAMS AT ALL THE BENTS AT LOCATION 7 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 FACIA BEAMS SHOULD BE CLEANED AND PAINTED.

LOCATIONS 2(016-0555)

ALL ORIGINAL BEAMS, BEARINGS AND OTHER STRUCTURAL STEEL WITHIN FIVE (5) FT., (MEASURED ALONG THE BEAM) OF EITHER SIDE OF THE 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 FACIA BEAMS (SEE FIGURE 1) SHALL BE CLEANED PER NEAR WHITE BLAST CLEANING SSPC-SP10.

LOCATION 6 (016-0406)

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

LOCATIONS 1(016-0827) AND 3(016-0725)

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

LOCATION 5(016-2045)

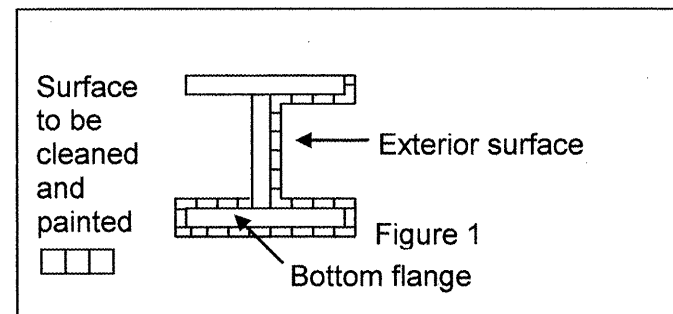
ALL ORIGINAL BEAMS, BEARINGS AND OTHER STRUCTURAL STEEL WITHIN FIVE (5) FT., (MEASURED ALONG THE BEAM) OF EITHER SIDE OF THE DECK JOINTS, SHALL BE CLEANED PER NEAR WHITE BLAST CLEANING SSPC-SP10. THE EXTERIOR SURFACES AND TOP, BOTTOM OF THE BOTTOM FLANGE OF THE FACIA BEAMS (SEE FIGURE 1) AND THE ENTIRE STEEL BENTS 1E, 1W, 2E & 2W SHALL BE CLEANED PER NEAR WHITE BLAST CLEANING SSPC-SP10.

LOCATION 4(016-2574)

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

LOCATION 7(016-2535)

ALL ORIGINAL BEAMS, BEARINGS AND OTHER STRUCTURAL STEEL WITHIN FIVE (5) FT., (MEASURED ALONG THE BEAM) OF EITHER SIDE OF THE DECK JOINTS, SHALL BE CLEANED PER NEAR WHITE BLAST CLEANING SSPC-SP10. THE EXTERIOR SURFACES, TOP AND BOTTOM OF THE BOTTOM FLANGE OF THE FACIA BEAMS (SEE FIGURE 1), ALL THE CROSS GIRDERS AT ALL THE BENTS AND FIVE (5) FT. OF THE BEAMS THAT FRAME INTO THEM SHALL BE CLEANED PER NEAR WHITE BLAST CLEANING SSPC-SP10



**FASCIA BEAM PAINTING DETAIL**

**FIGURE 1**

ILLINOIS DEPARTMENT OF TRANSPORTATION

**GENERAL PAINT NOTES**

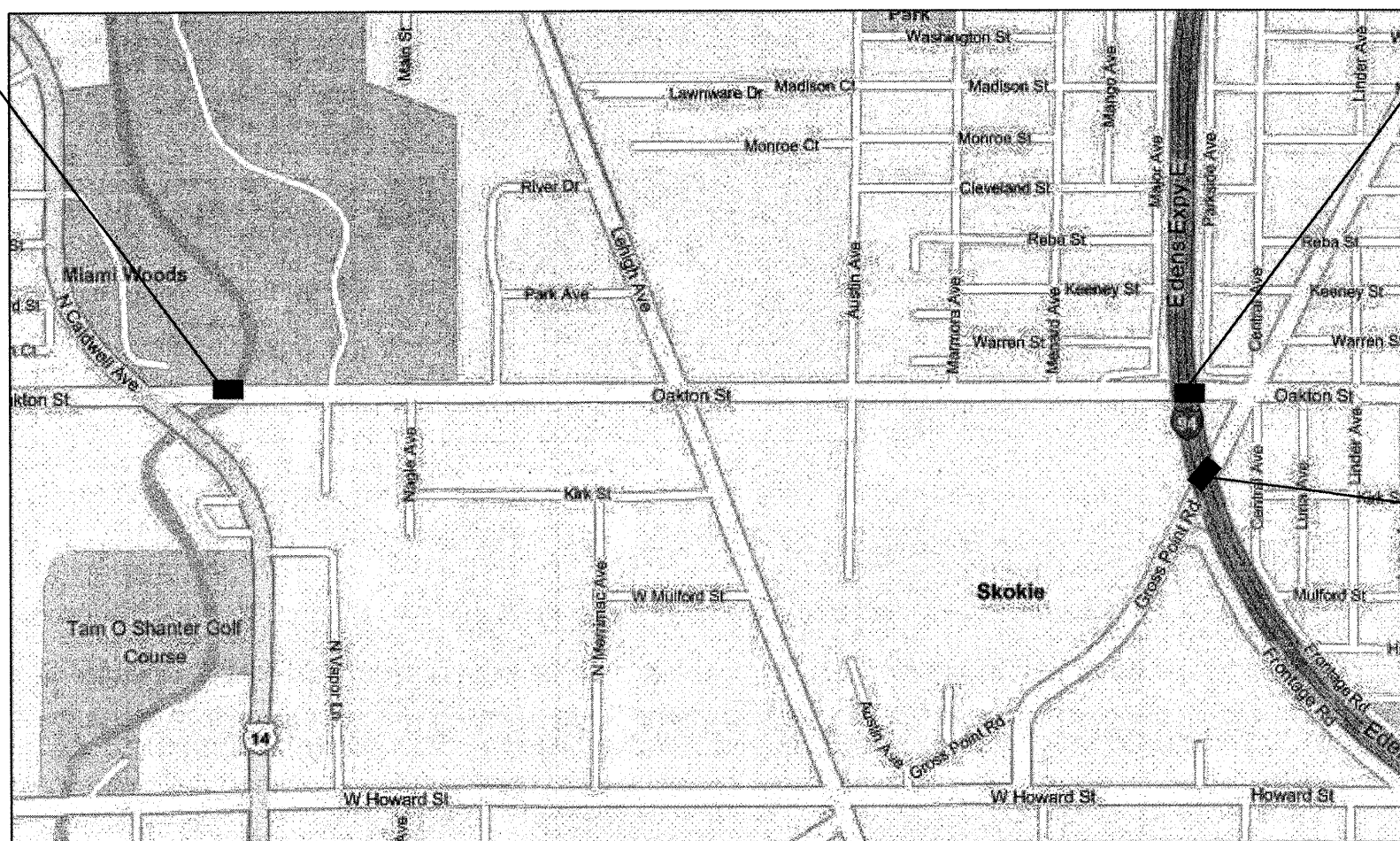


ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2008-051 BP	COOK	38	5

CONTRACT NO. 60F02

R 13 E

T 41 N



NILES TOWNSHIP  
COOK COUNTY

**LOCATION 2:**  
SN 016-0555  
OAKTON ST. OVER NORTH  
BRANCH CHICAGO RIVER

**VILLAGE OF  
MORTON GROVE**

**LOCATION 1:**  
SN 016-0827  
OAKTON ST. OVER I-94

**VILLAGE OF  
MORTON GROVE**



**LOCATION 3:**  
SN 016-0725  
GROSS POINT RD. OVER I-94

**VILLAGE OF  
MORTON GROVE**

**TRAFFIC DATA: I-94**

2006 ADT = 170,200  
POSTED SPEED LIMIT = 55 MPH

**TRAFFIC DATA: Oakton St.**

2006 ADT = 23,900  
POSTED SPEED LIMIT = 35-40 MPH

**TRAFFIC DATA: Gross Point Rd.**

2006 ADT = 8,200  
POSTED SPEED LIMIT = 35 MPH

ILLINOIS DEPARTMENT OF TRANSPORTATION

**LOCATION MAPS**

LOCATION 1: OAKTON ST. OVER I-94  
LOCATION 2: OAKTON ST. OVER N. BRANCH CHICAGO RIVER  
LOCATION 3: GROSS POINT RD. OVER I-94

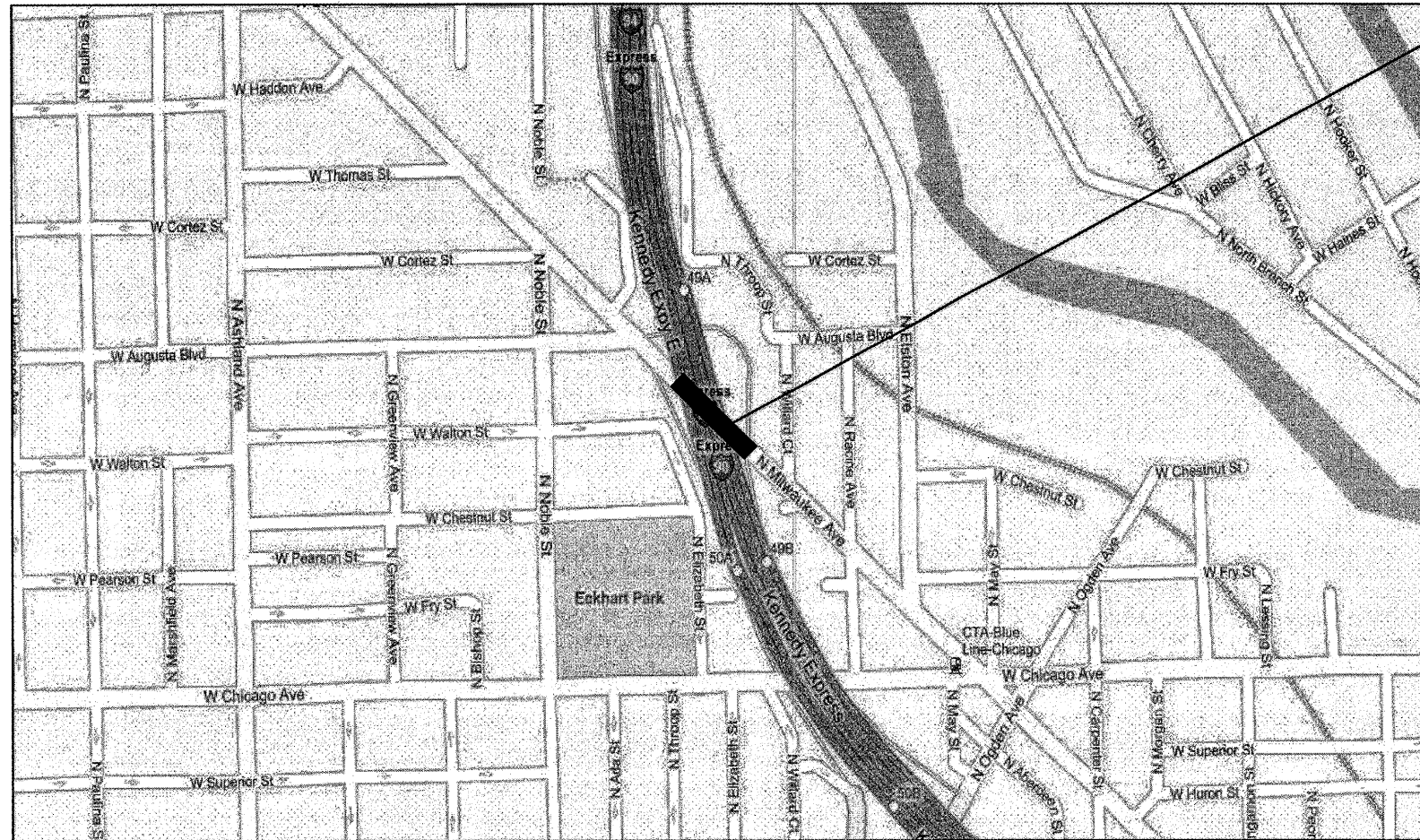


ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2008-051 BP	COOK	38	7

CONTRACT NO. 60F02

R 14 E

T 39 N



**LOCATION 5:**  
SN 016-2045  
 MILWAUKEE AVE OVER I-90/94.  
**CITY OF CHICAGO**



**WEST CHICAGO TOWNSHIP  
 COOK COUNTY**

**TRAFFIC DATA: I-90/94**  
 2006 ADT = 152,000  
 POSTED SPEED LIMIT = 55 MPH

**TRAFFIC DATA: Milwaukee Ave.**  
 2006 ADT = 12,800  
 POSTED SPEED LIMIT = 35 MPH

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 LOCATION MAPS  
 LOCATION 5: MILWAUKEE AVE. OVER I-90/94

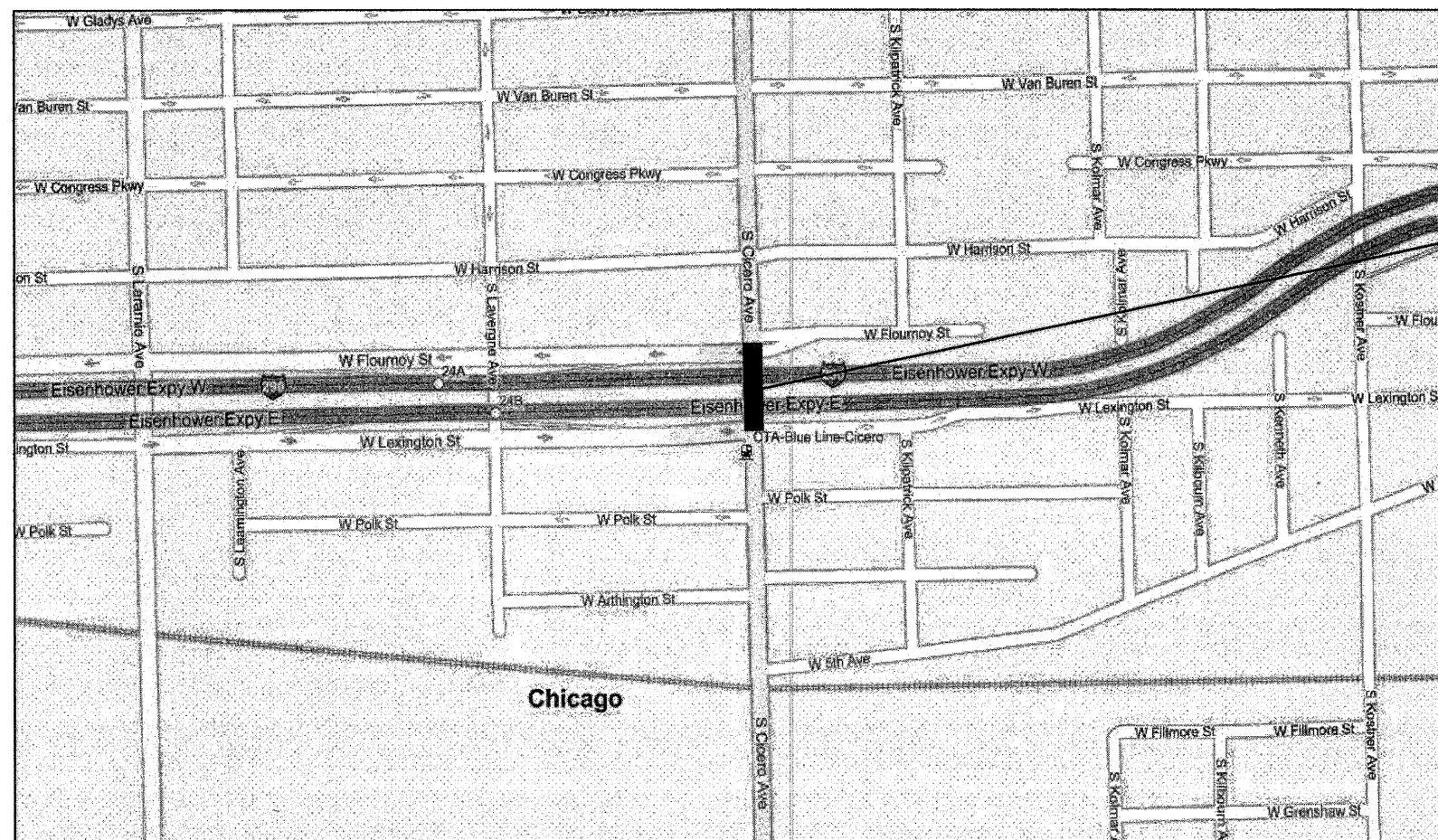


ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2008-051 BP	COOK	38	8

CONTRACT NO. 60F02

R 13 E

T 39 N



**LOCATION 6:**  
 SN 016-0406  
 IL 50 (CICERO AVE.) OVER  
 I-290 (EISENHOWER) & CTA RR  
**CITY OF CHICAGO**

**WEST CHICAGO TOWNSHIP  
 COOK COUNTY**

**TRAFFIC DATA: I-290**

2006 ADT = 196,100  
 POSTED SPEED LIMIT = 55 MPH

**TRAFFIC DATA: Cicero Ave.**

2007 ADT = 32,600  
 POSTED SPEED LIMIT = 30 MPH

ILLINOIS DEPARTMENT OF TRANSPORTATION

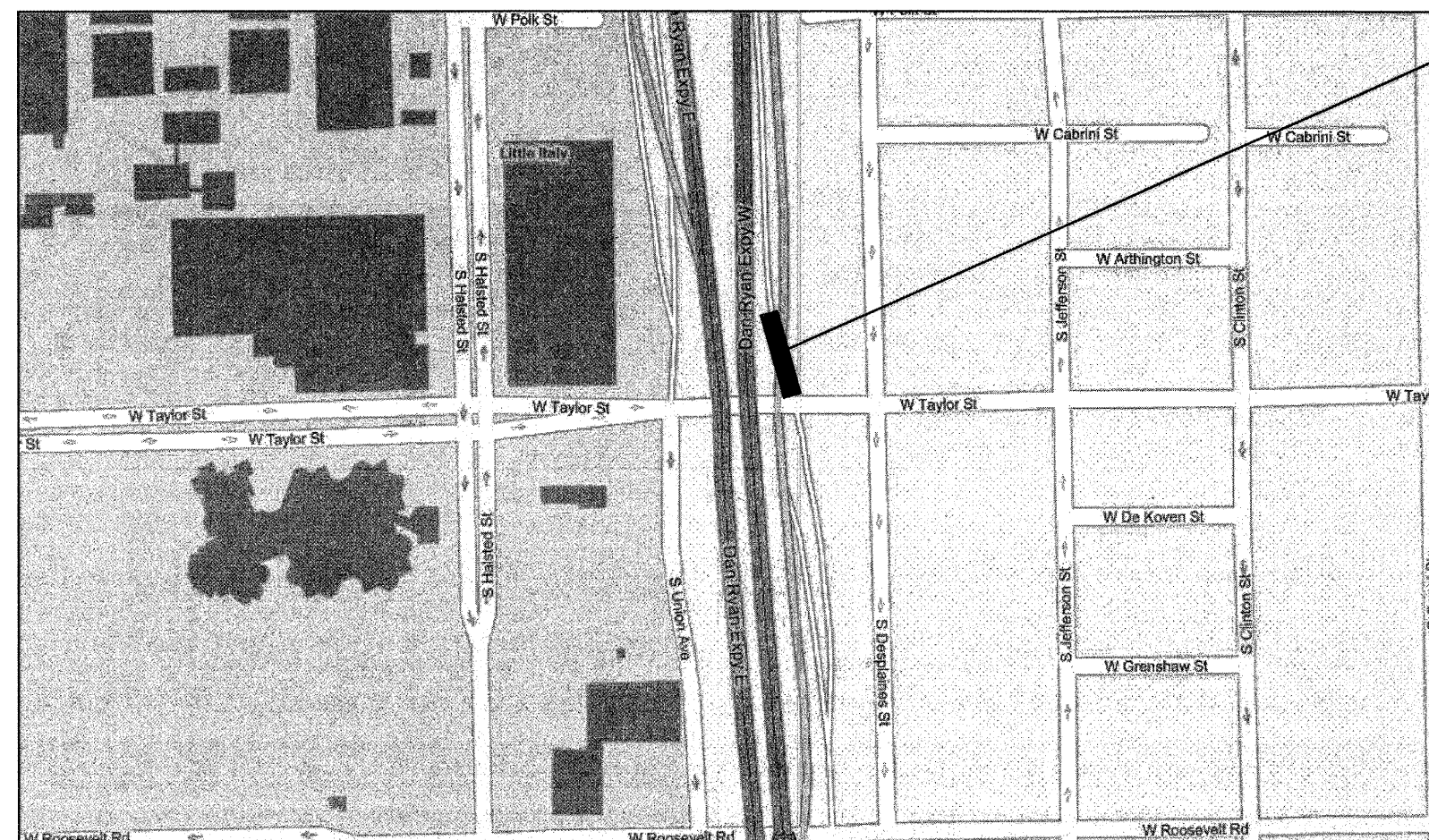
**LOCATION MAPS**  
 LOCATION 6: IL 50 (CICERO AVE.) OVER I-290 (EISENHOWER) &  
 CTA RR

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2008-051 BP	COOK	38	9

CONTRACT NO. 60F02

T 39 N

R 14 E



**LOCATION 7:**  
SN 016-2535  
 TAYLOR ST. RAMP TO NB I-90/94 OVER CD TO CONGRESS PKWY & I-290  
**CITY OF CHICAGO**



**WEST CHICAGO TOWNSHIP  
 COOK COUNTY**

**TRAFFIC DATA: I-90/94**

2006 ADT = 233,000  
 POSTED SPEED LIMIT = 45 MPH

**TRAFFIC DATA: Taylor St.**

2006 ADT = 8,800  
 POSTED SPEED LIMIT = 30 MPH

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 LOCATION MAPS  
 LOCATION 7: TAYLOR ST. RAMP TO NB I-90/94

<b>ROUTE</b>	<b>SECTION</b>	<b>COUNTY</b>	<b>TOTAL SHEETS</b>	<b>SHEET NUMBER</b>
VARIOUS	2008-051 BP	COOK		10

CONTRACT: 60F02

**SUMMARY OF QUANTITIES**

CONSTRUCTION TYPE CODE: SFTY - 2A

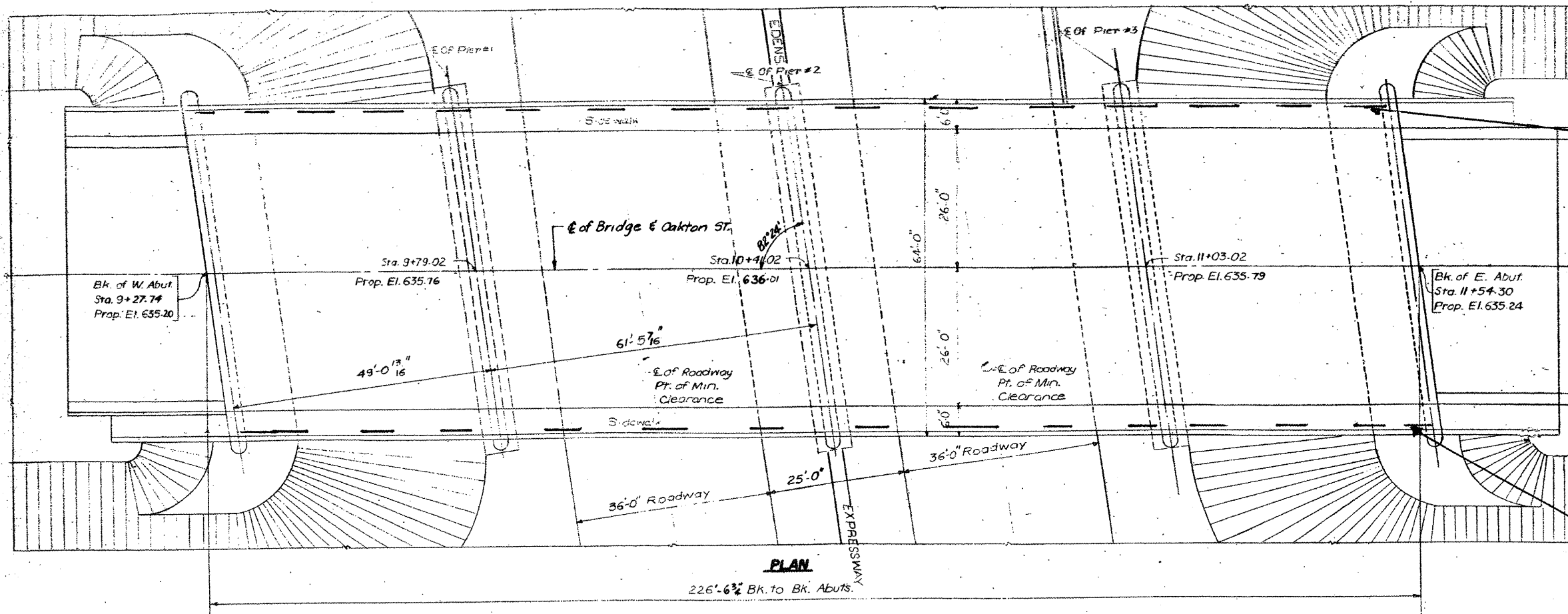
Code No.	Description	Unit	URBAN 100% STATE Total Quantities	CONSTRUCTION TYPE CODE: SFTY - 2A						
				Location 1 016-0827	Location 2 016-0555	Location 3 016-0725	Location 4 016-2574	Location 5 016-2045	Location 6 016-0406	Location 7 016-2535
50600600	CLEANING AND PAINTING STEEL BRIDGE No. 1	L SUM	1	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
50606400	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES	L SUM	1	0.12	0.04	0.17	0.04	0.39	0.04	0.2
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	8	1.38	0.76	0.56	0.34	2.62	0.55	1.79
67100100	MOBILIZATION	L SUM	1	0.12	0.04	0.17	0.04	0.39	0.04	0.2
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1		1					
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	0.5		0.5				
X0322 467	TEMPORARY INFORMATION SIGNING FOR LANE CLOSURE	SQ FT	48		48					
X7011015	TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)	L SUM	1	0.13		0.18	0.04	0.4	0.04	0.21
Z0009900	CHAIN LINK FABRIC, TYPE 1, 4'-0"	FOOT	549	227		322				
X0326242	CHAIN LINK FABRIC, TYPE 1, 3'-0"	FOOT	776	454		322				

ILLINOIS DEPARTMENT OF TRANSPORTATION

**SUMMARY OF QUANTITIES**

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2008-051 BP	COOK	38	11

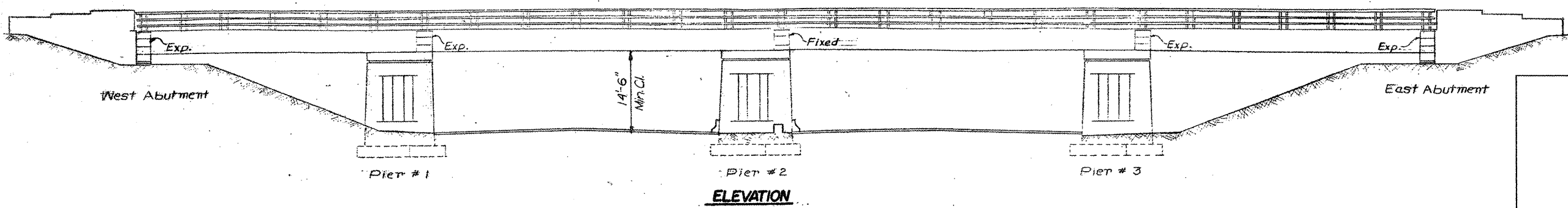
CONTRACT NO. 60F02



EXISTING 3' CHAIN LINK FABRIC TO BE REMOVED & REPLACED TO PAINT HAND RAIL (APPROX 227 FT)

EXISTING MOUNTING HARDWARE TO BE REPLACED. COST INCLUDED IN COST OF "CHAIN LINK FABRIC, TYPE 1, 4'-0"

EXISTING \*7' CHAIN LINK FABRIC TO BE REMOVED & REPLACED TO PAINT HAND RAIL (APPROX 227 FT)  
EXISTING FENCE POST MOUNTED TO TOP RAILING MAY BE DISASSEMBLED IN ORDER TO PAINT THE RAIL & POSTS.



FOR INFORMATION ONLY

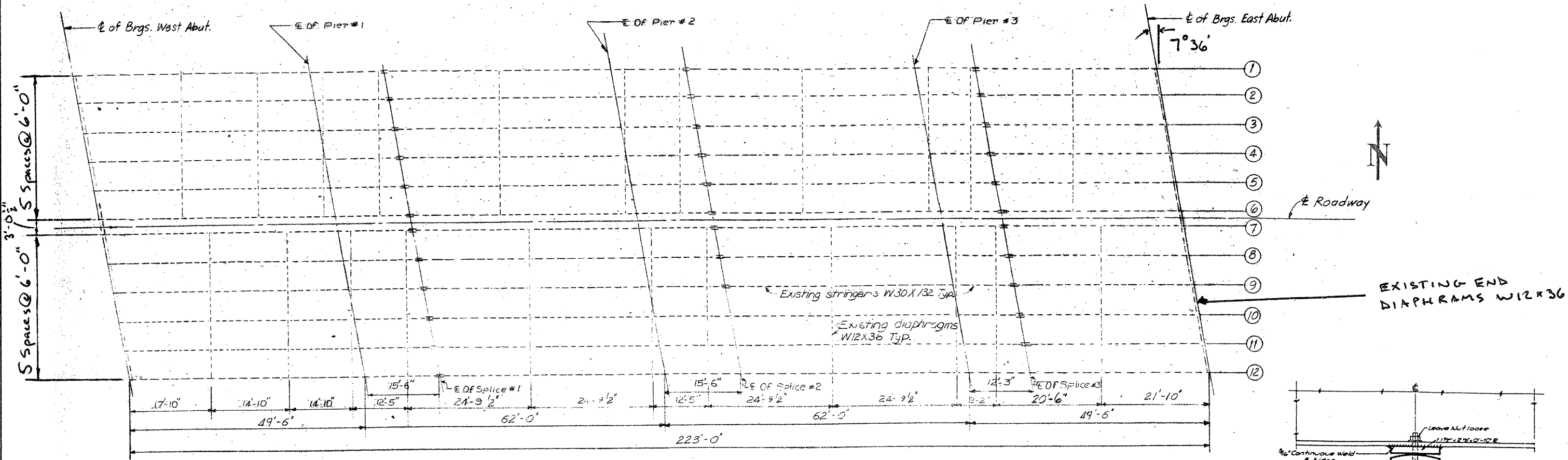
\* (COMPRISED OF 4' FABRIC ON TOP OF RAIL AND 3' FABRIC ATTACHED TO RAIL)

**LOCATION NO.1**  
**EXIST. BRIDGE PLANS**  
**OAKTON ST. OVER I-94**  
**SN: 016-0827**

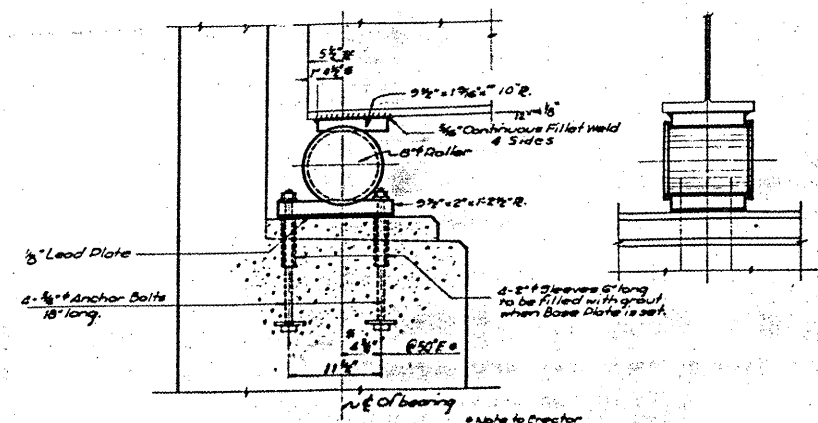


ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2008-051 BP	COOK	38	12

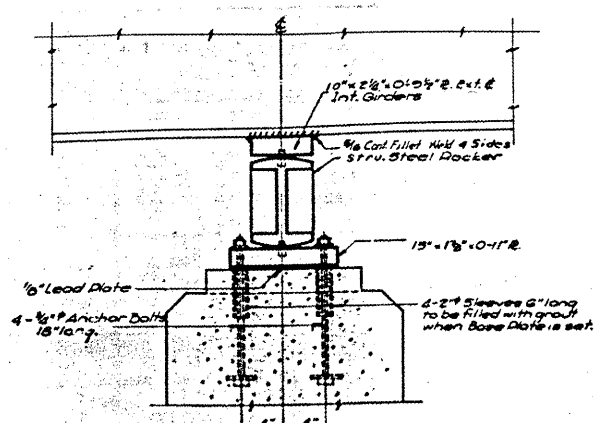
CONTRACT NO. 60F02



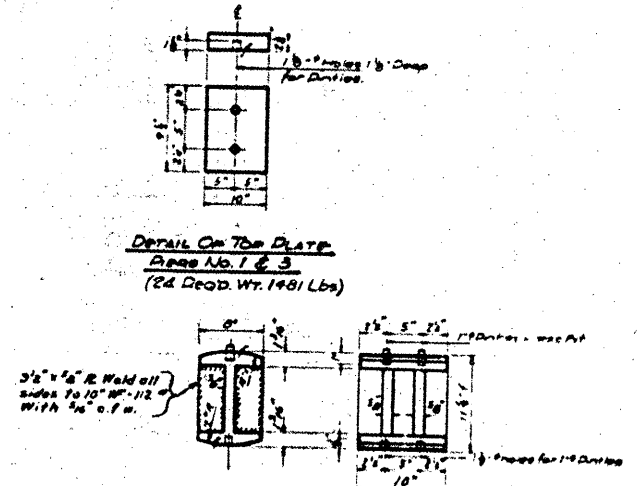
STEEL FRAMING PLAN



SECTION THRU ABUTMENT

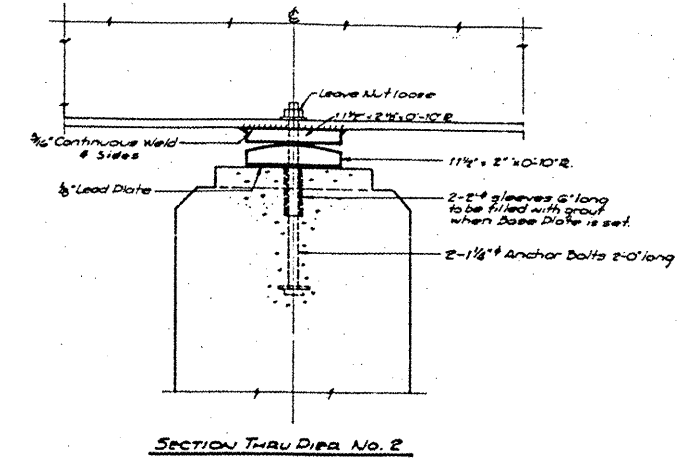


SECTION THRU DIAPHRAGMS 1 & 3



DETAIL ON TOP PLATE  
Area No. 1 & 3  
(24 Dead Wt. 1481 Lbs)

DETAIL ON STR. STEEL ROCKERS  
Area No. 1 & 3  
(24 Dead Wt. 2859 Lbs)

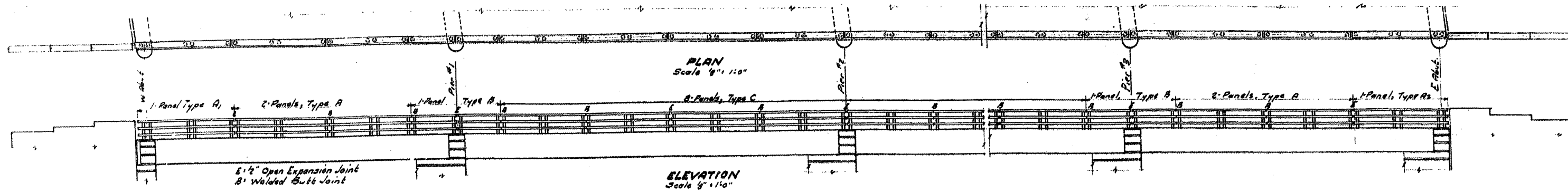


SECTION THRU DIA. NO. 2

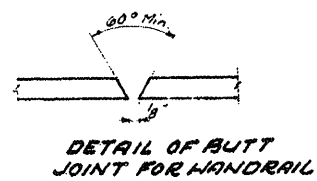
**LOCATION NO.1**  
**EXIST. BRIDGE PLANS**  
**OAKTON ST. OVER I-94**  
**SN: 016-0827**

ROUTE VARIOUS	SECTION 2008-051 BP	COUNTY COOK	TOTAL SHEETS 38	SHEET NUMBER 13
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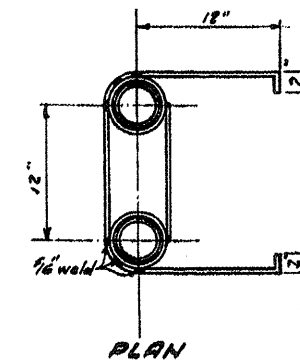
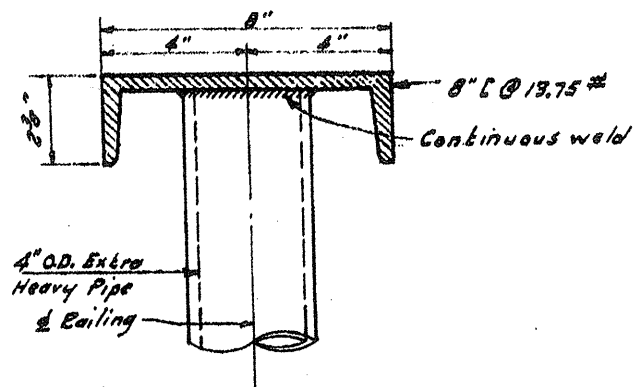
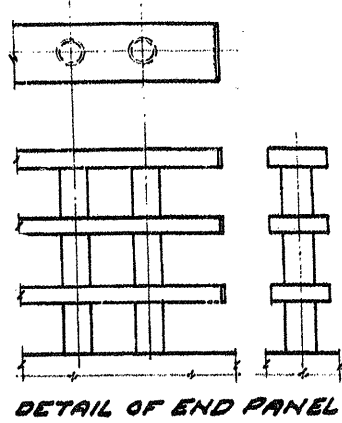
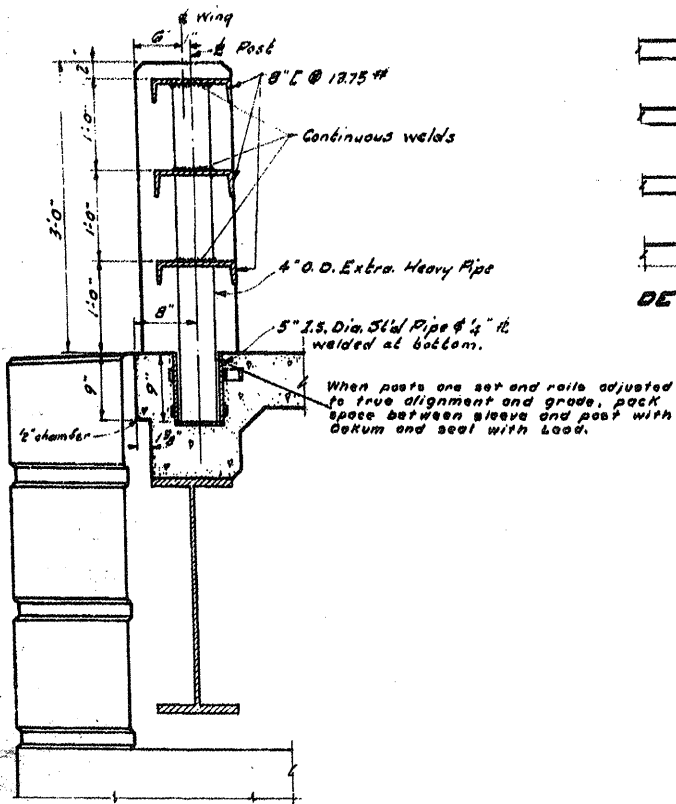
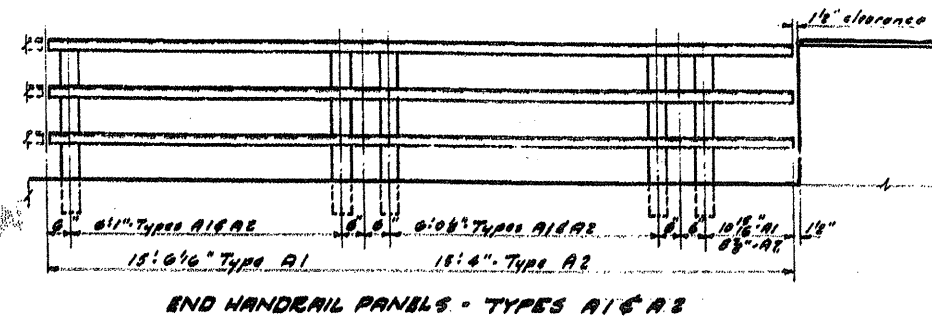
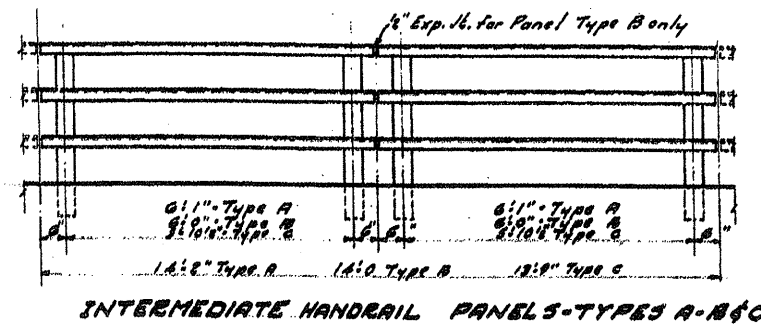
CONTRACT NO. 60F02



12' 0" Side Slope 11448.14  
 12' 0" Side Slope 9923.79  
 11' 0" Side Slope 9928.90  
 11' 0" Side Slope 1186.75



NOTE - Expansion joints in handrail shall be provided over piers, at mid spans or as shown. Rail panels at points other than expansion shall be field welded and ground smooth.



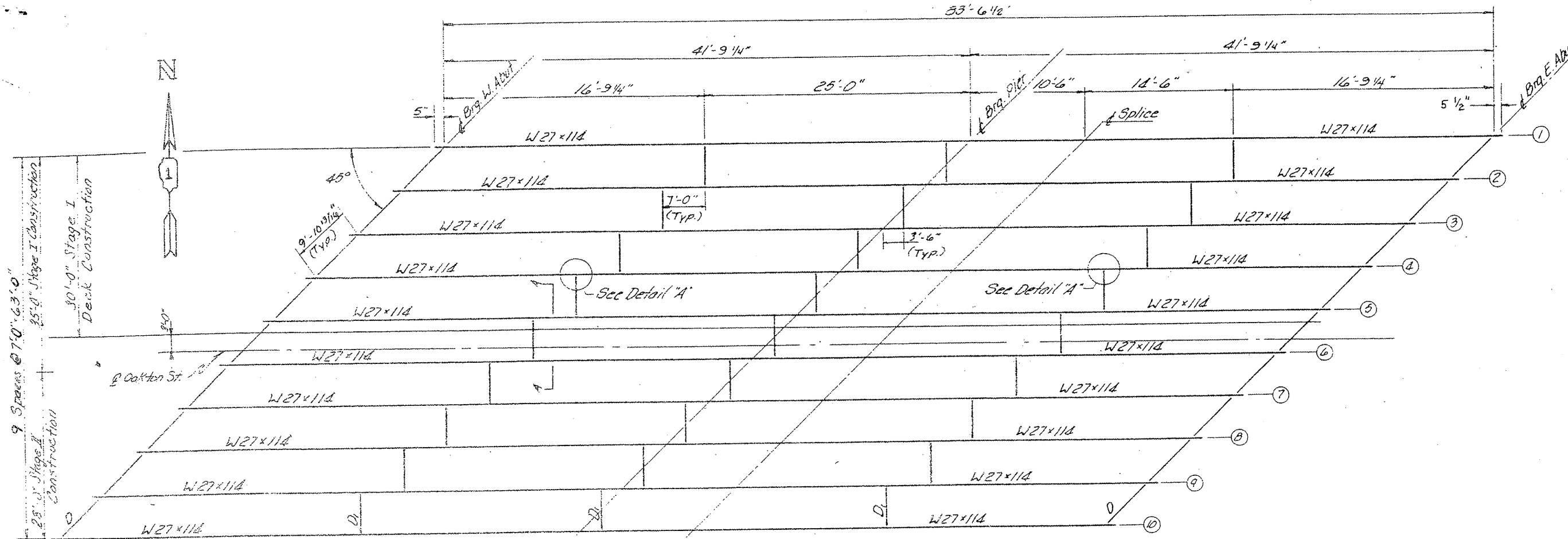
DETAIL OF HANDRAIL & POST

**LOCATION NO.1**  
**EXIST. BRIDGE PLANS**  
**OAKTON ST. OVER I-94**  
**SN: 016-0827**

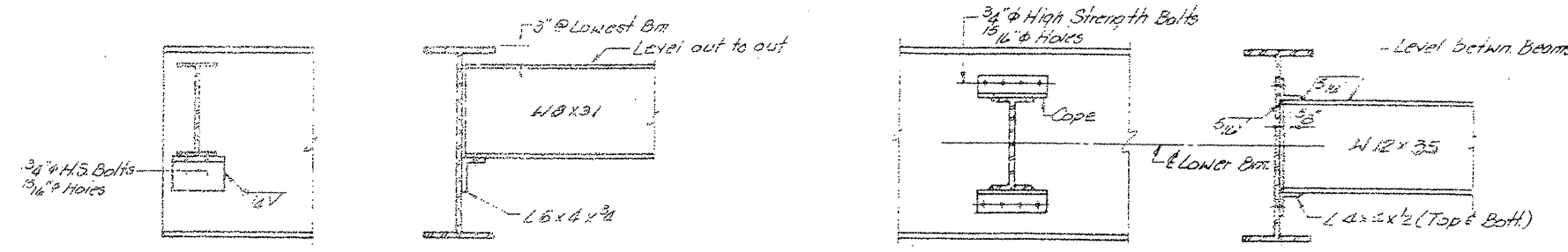


ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2008-051 BP	COOK	38	15

CONTRACT NO. 60F02



PLAN



END DIAPHRAGM D1  
(16 Req'd)

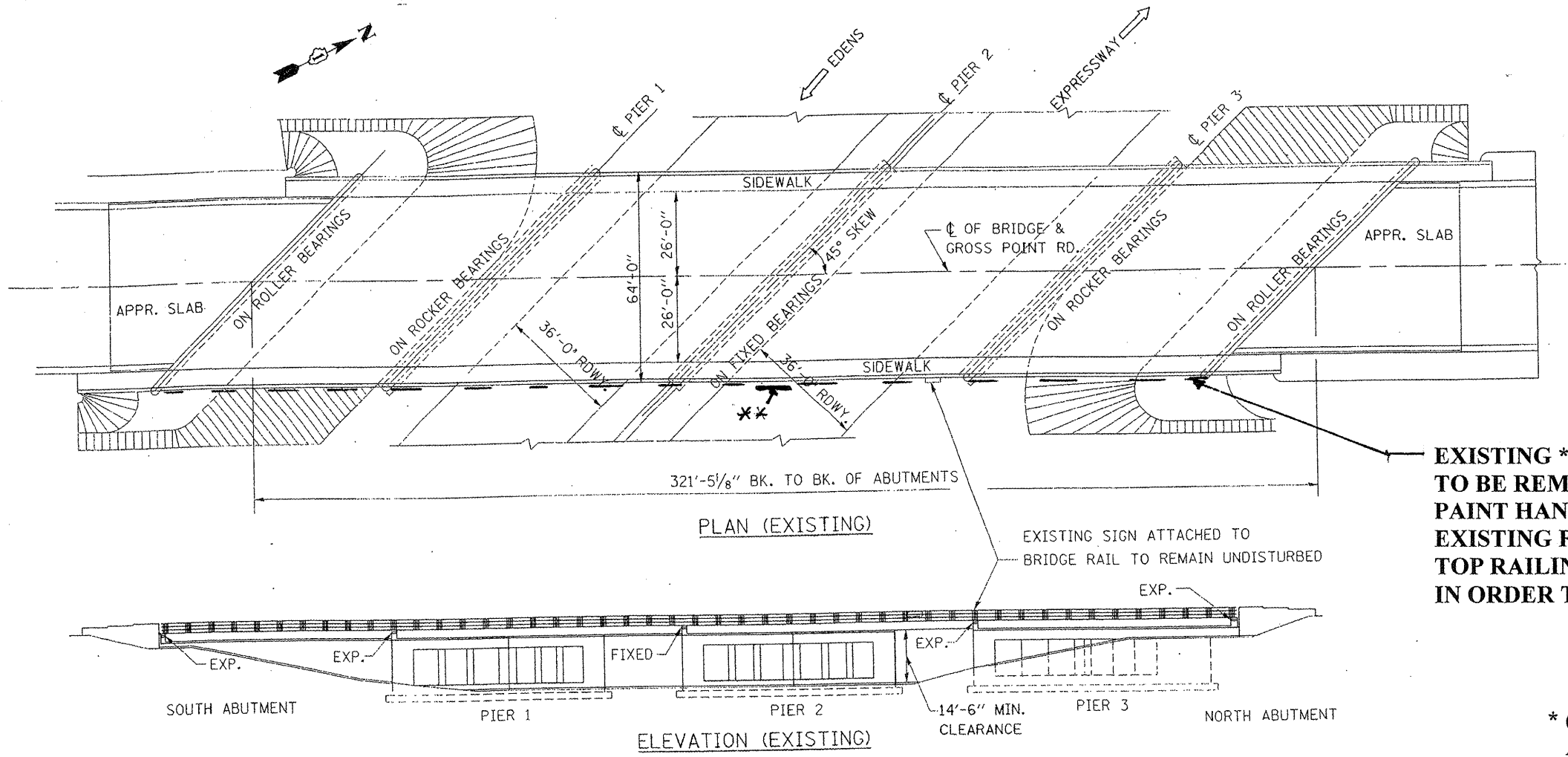
INTERIOR DIAPHRAGM D2  
(27 Req'd)

**LOCATION NO.2**

**EXIST. BRIDGE PLANS**  
**OAKTON ST. OVER N. BR.**  
**CHICAGO RIVER SN 016-0555**

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2008-051 BP	COOK	38	16

CONTRACT NO. 60F02



**EXISTING \*7' CHAIN LINK FABRIC TO BE REMOVED & REPLACED TO PAINT HAND RAIL (APPROX 322 FT) EXISTING FENCE POST MOUNTED TO TOP RAILING MAY BE DISASSEMBLED IN ORDER TO PAINT THE RAIL & POSTS.**

**\* (COMPRISED OF 4' FABRIC ON TOP OF RAIL AND 3' FABRIC ATTACHED TO RAIL)**

**\*\* EXISTING CLEARANCE SIGN MOUNTED TO FENCE SHALL BE REMOVED & RE-ERECTED COST INCLUDED WITH "CHAIN LINK FABRIC, TYPE 1, 4'-0"**

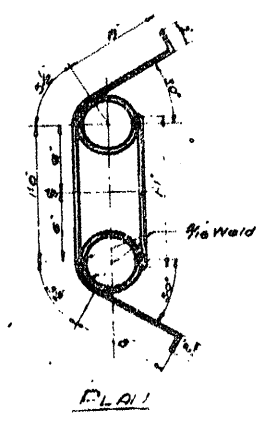
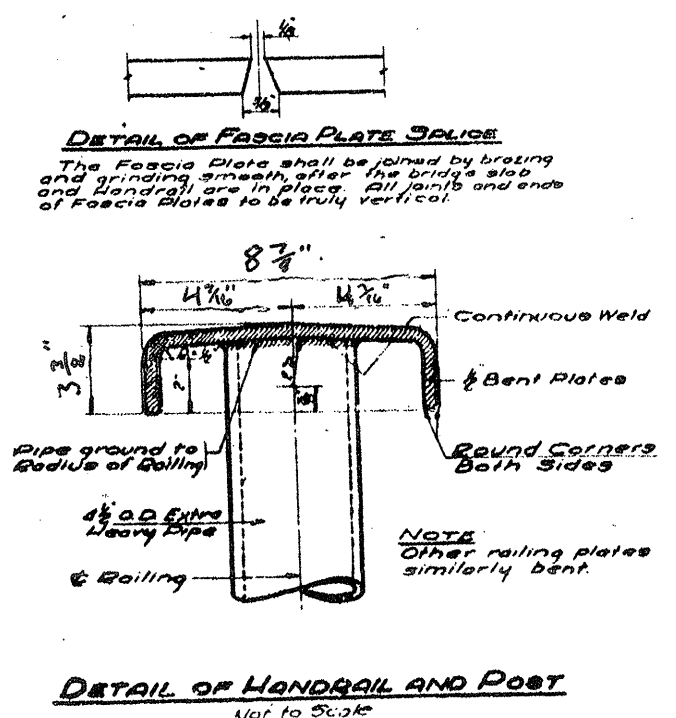
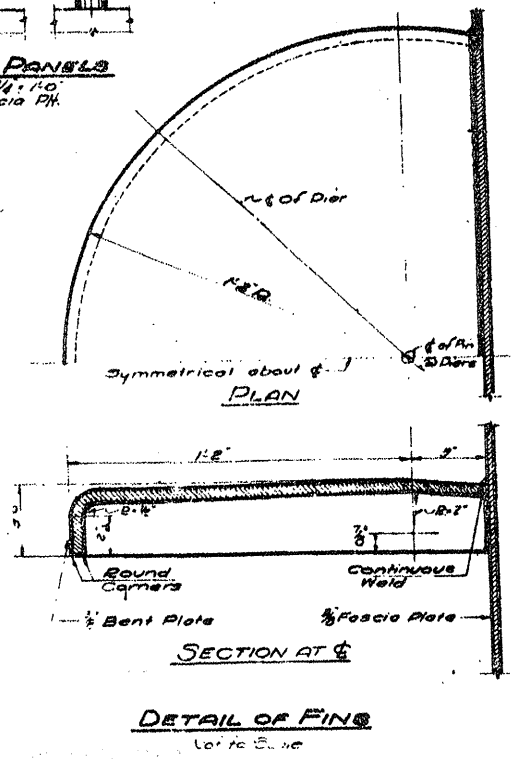
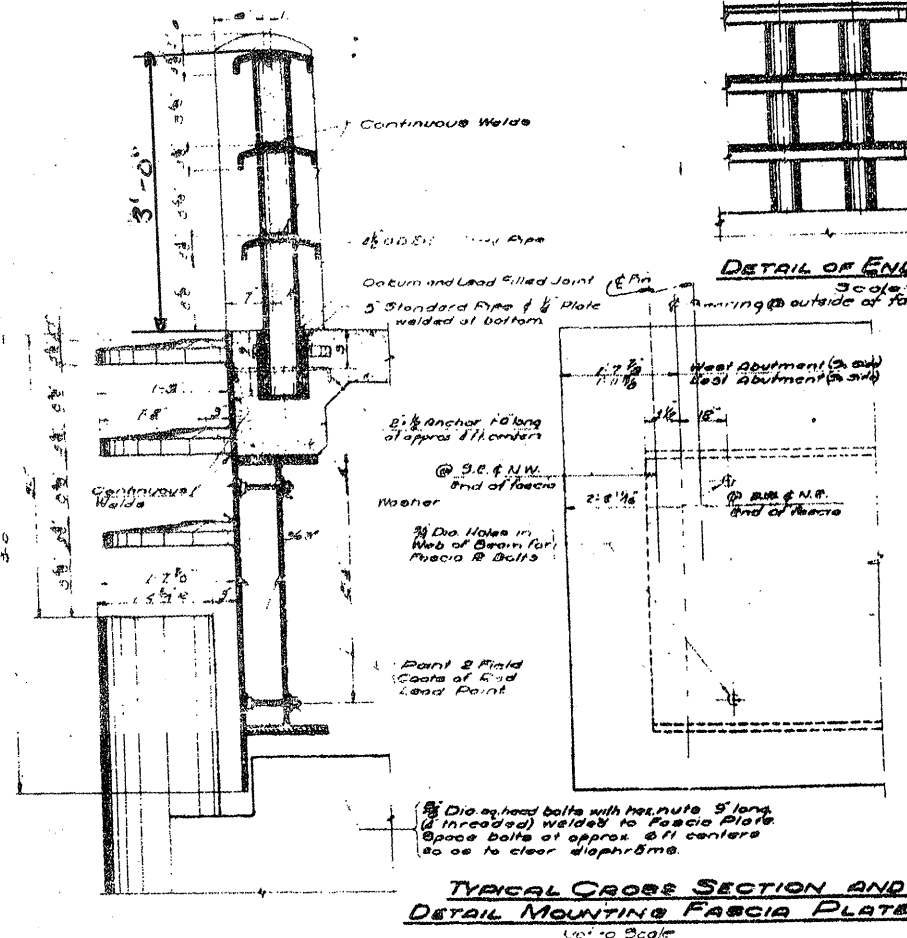
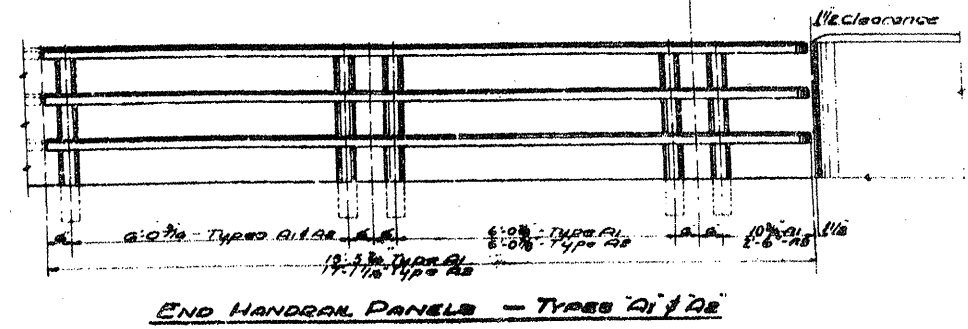
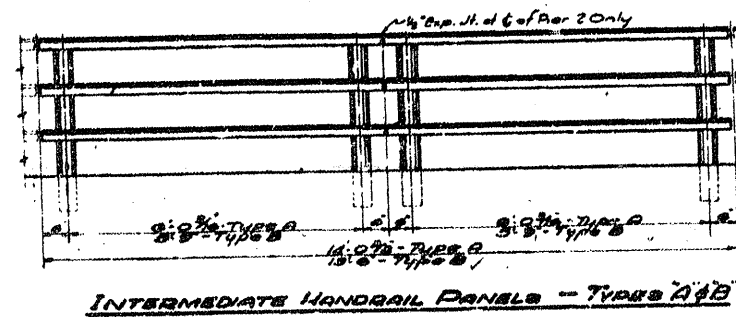
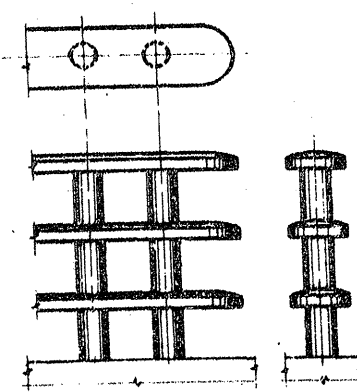
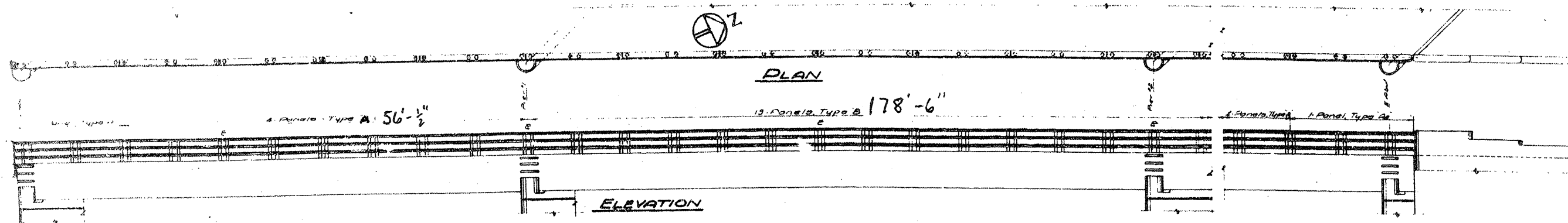
FOR  
INFORMATION  
ONLY

**LOCATION NO.3**  
**EXIST. BRIDGE PLANS**  
**GROSS POINT RD. OVER I-94**  
**SN 016-0725**



ROUTE VARIOUS	SECTION 2008-051 BP	COUNTY COOK	TOTAL SHEETS 38	SHEET NUMBER 18
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CONTRACT NO. 60F02



**LOCATION NO.3**  
**EXIST. BRIDGE PLANS**  
**GROSS POINT RD. OVER I-94**  
**SN 016-0725**

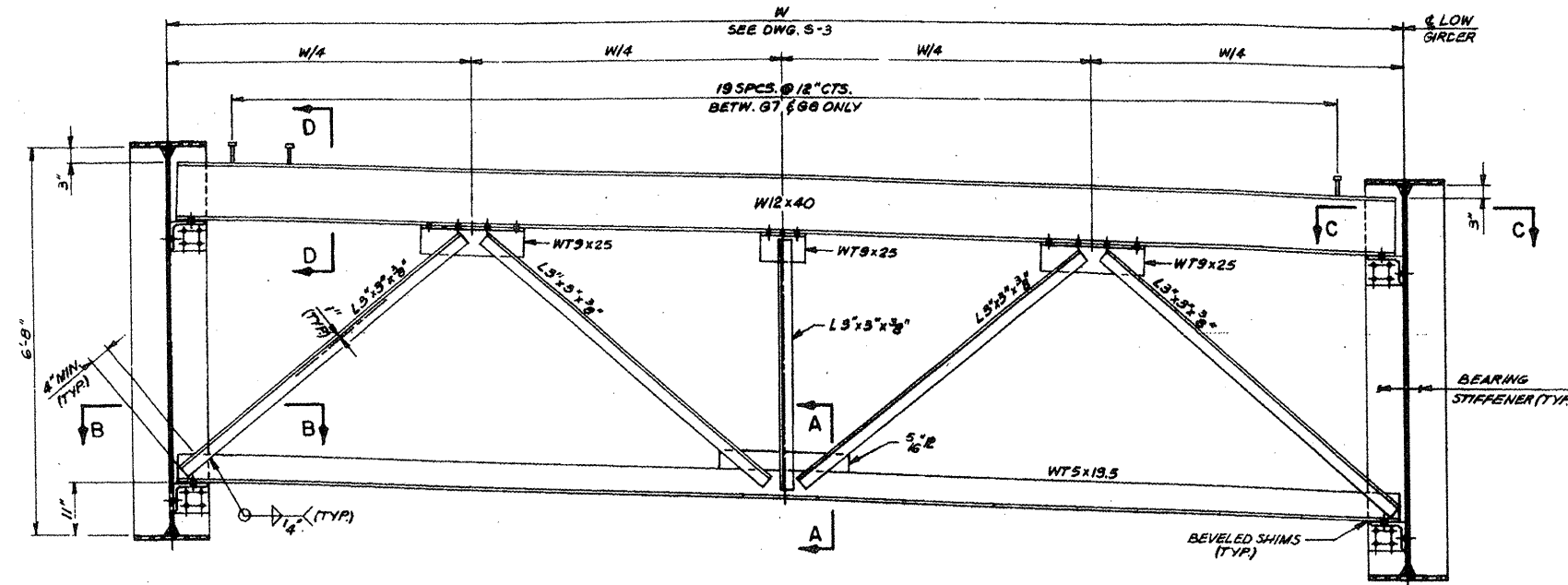




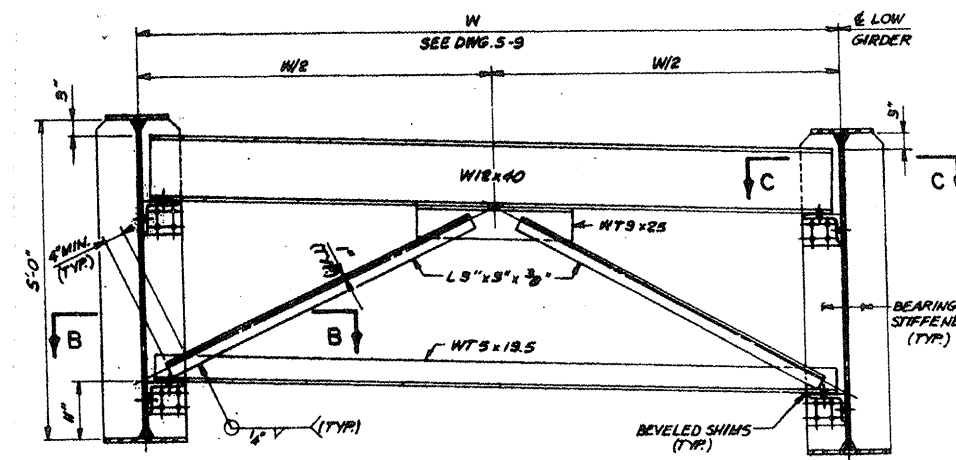


ROUTE VARIOUS	SECTION 2008-051 BP	COUNTY COOK	TOTAL SHEETS 38	SHEET NUMBER 21
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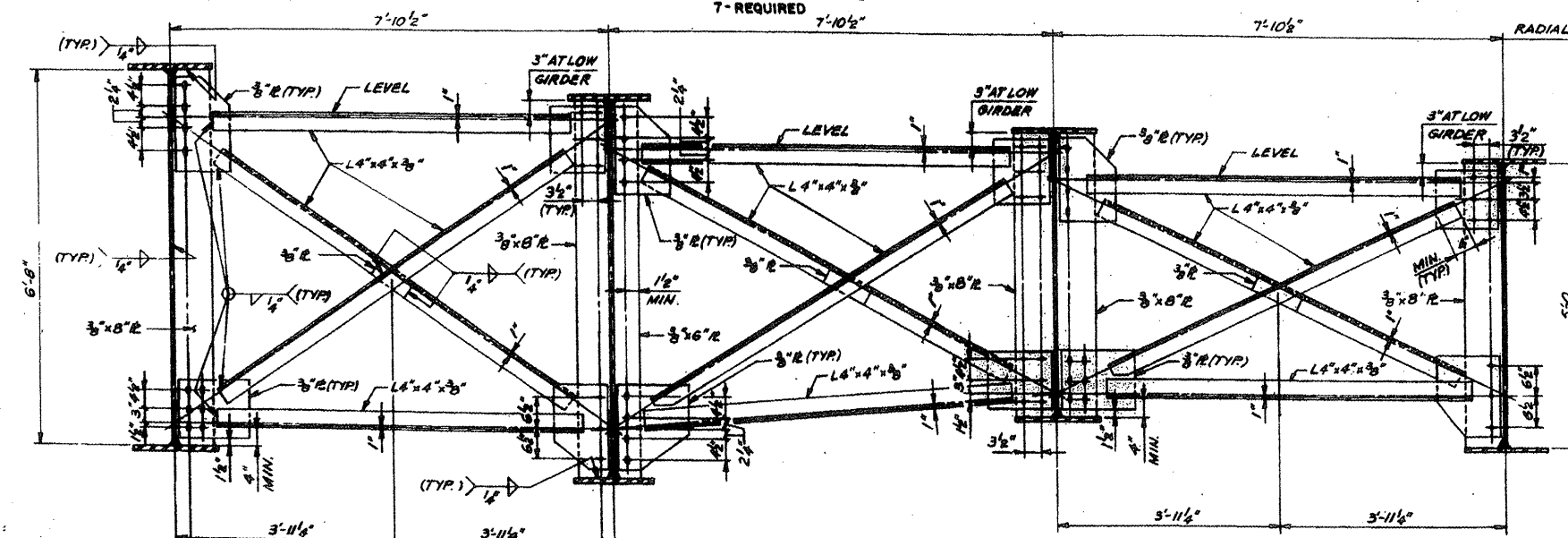
CONTRACT NO. 60F02



CROSS FRAME CF-1  
7'-REQUIRED



CROSS FRAME CF-2  
7'-REQUIRED



CROSS FRAME CF-4  
35'-REQUIRED

NOTE:  
THE BOLTS FOR THE SLOTTED HOLES SHALL ONLY BE FINGER-TIGHTENED PRIOR TO THE DECK SLAB POURING AND BE FULLY TIGHTENED AFTER THE COMPLETION OF THE DECK PLACEMENT.

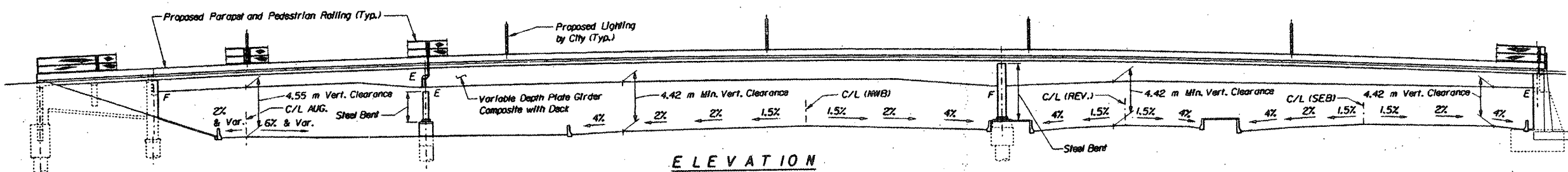
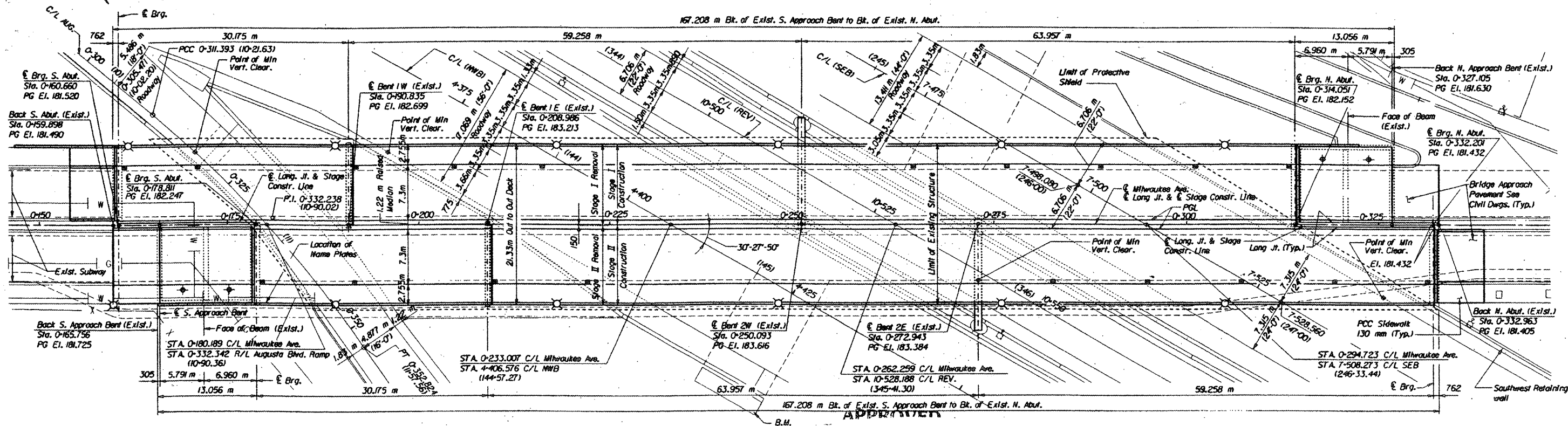
CROSS FRAME CF-3  
64'-REQUIRED

CROSS FRAME CF-5  
6'-REQUIRED

**LOCATION NO.4**  
**EXIST. BRIDGE PLANS**  
**I-94 OVER 1-90**  
**SN 016-2574**

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2008-051 BP	COOK	39	22

CONTRACT NO. 60F02

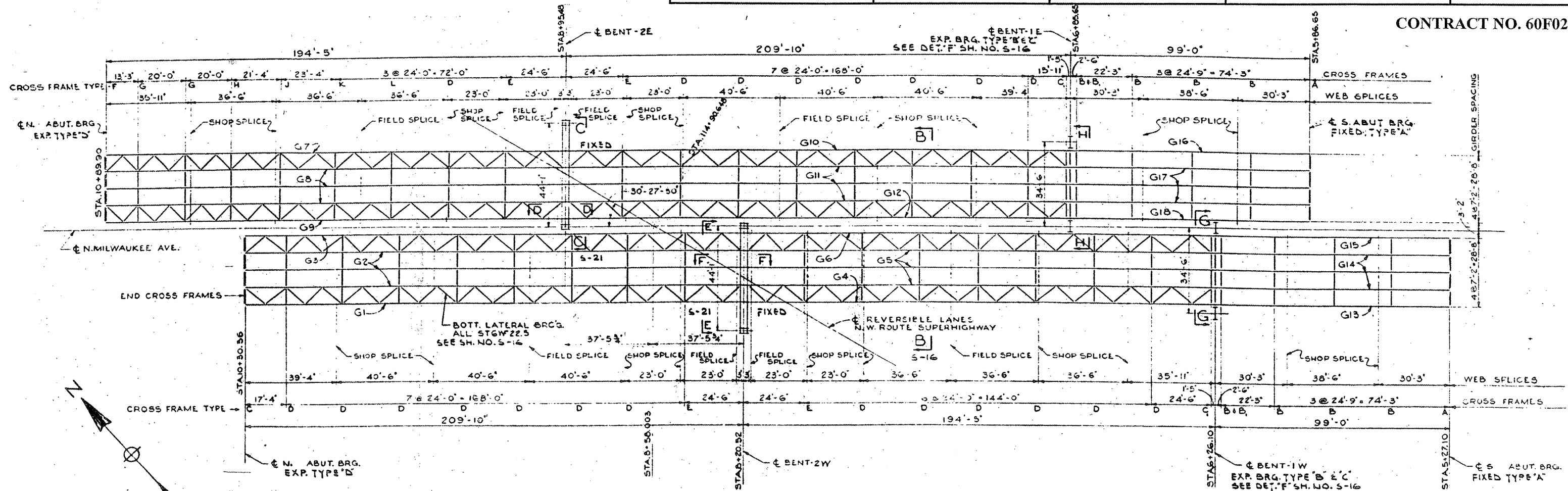


FOR INFORMATION ONLY

**LOCATION NO.5**  
**EXIST. BRIDGE PLANS**  
**MILWAUKEE AVE. OVER**  
**I-90/94 SN 016-2045**

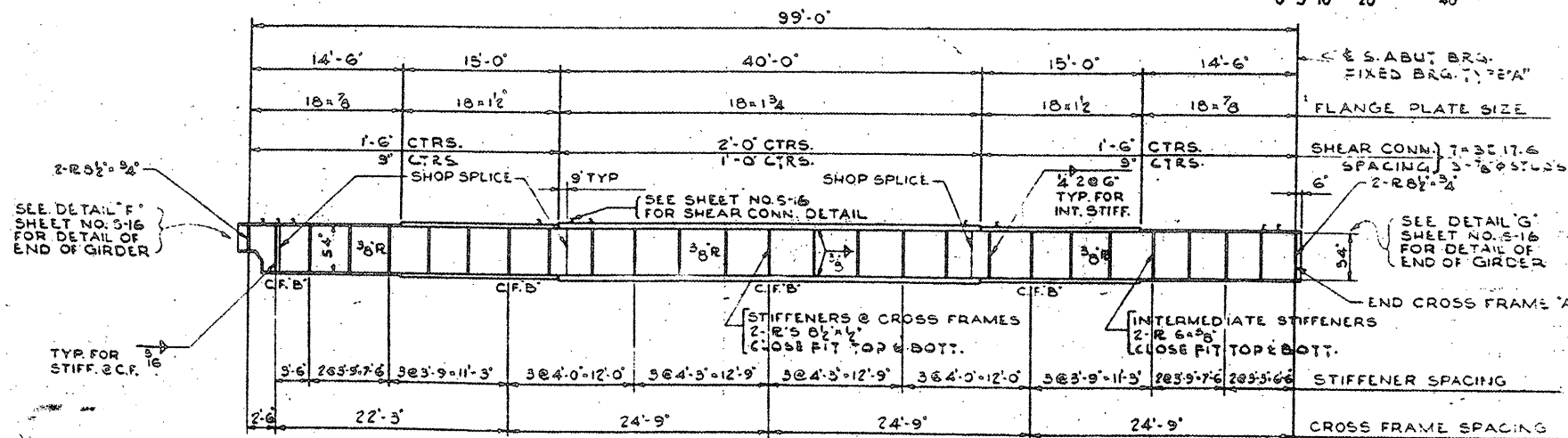
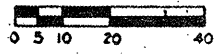
ROUTE VARIOUS	SECTION 2008-051 BP	COUNTY COOK	TOTAL SHEETS 38	SHEET NUMBER 23
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CONTRACT NO. 60F02



FRAMING PLAN

SCALE: 1"=20'-0"



ELEVATION OF GIRDERS G14, G15, G17 & G18

FOR CAMBER SEE GIR. FABRICATION AND ERECTION DIAGRAMS SHEET NO. 5-13 & 5-19

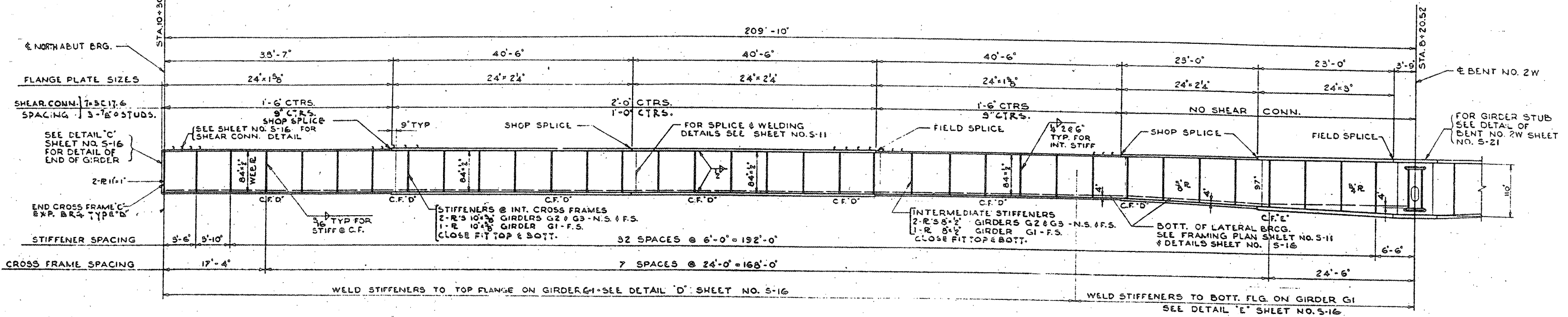
SCALE: 1/8"=1'-0"

**LOCATION NO.5**  
**EXIST. BRIDGE PLANS**  
**MILWAUKEE AVE. OVER**  
**I-90/94 SN 016-2045**

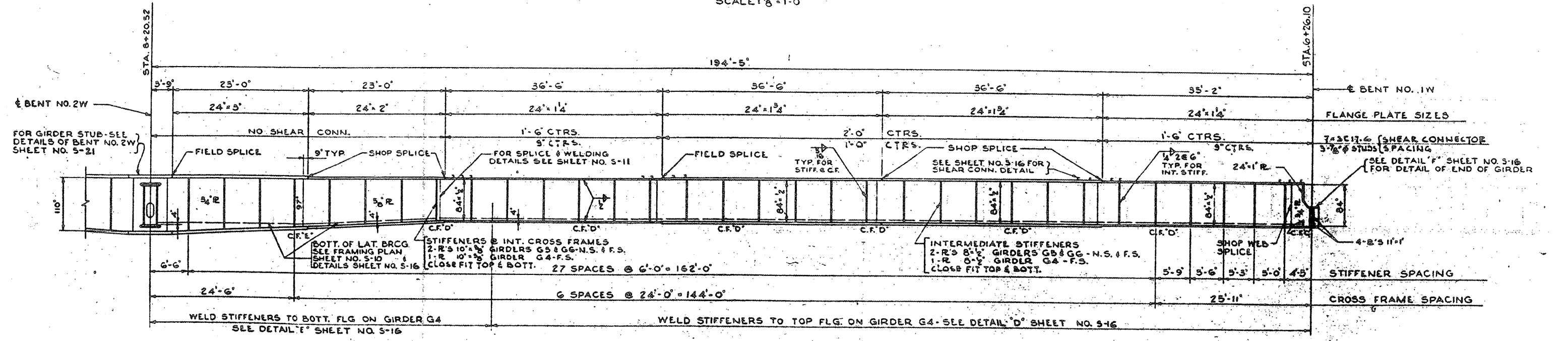


ROUTE VARIOUS	SECTION 2008-051 BP	COUNTY COOK	TOTAL SHEETS 38	SHEET NUMBER 24
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CONTRACT NO. 60F02



ELEVATION OF GIRDERS G1, G2 & G3  
SCALE: 1/8" = 1'-0"

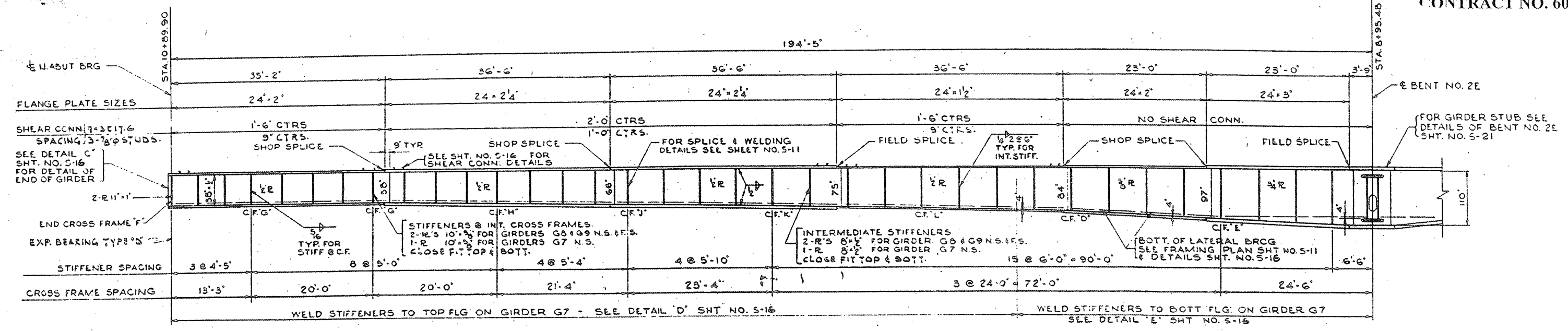


ELEVATION OF GIRDERS G4, G5 & G6  
SCALE: 1/8" = 1'-0"

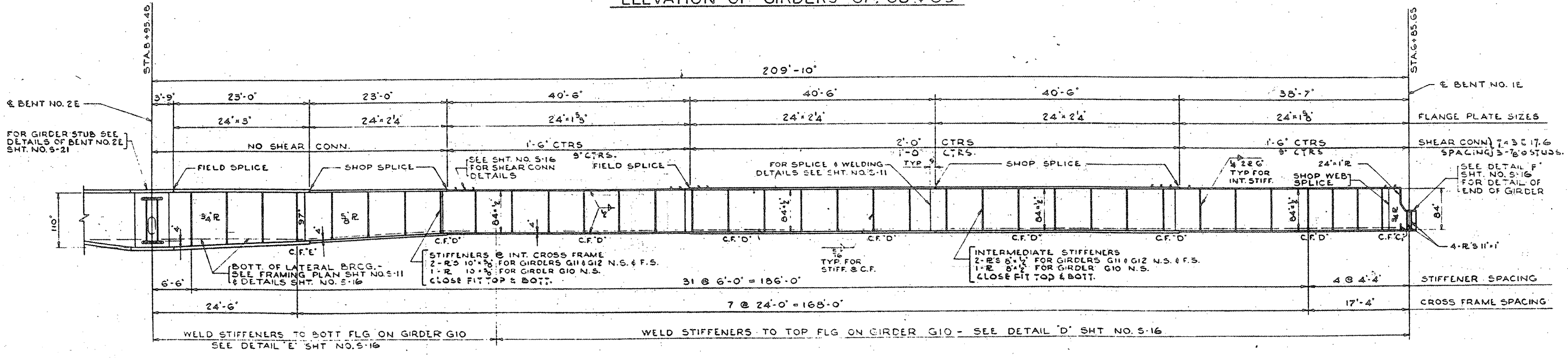
**LOCATION NO.5**  
**EXIST. BRIDGE PLANS**  
**MILWAUKEE AVE. OVER**  
**I-90/94 SN 016-2045**

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2008-051 BP	COOK	38	25

CONTRACT NO. 60F02



ELEVATION OF GIRDERS G7, G8 & G9



ELEVATION OF GIRDERS G10, G11 & G12

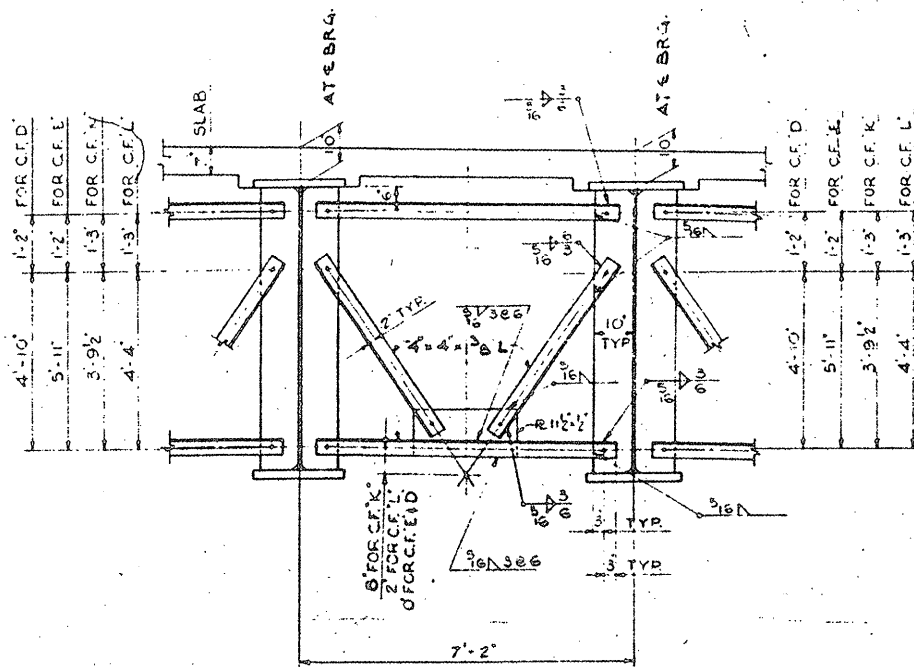
**LOCATION NO.5**  
**EXIST. BRIDGE PLANS**  
**MILWAUKEE AVE. OVER**  
**I-90/94 SN 016-2045**



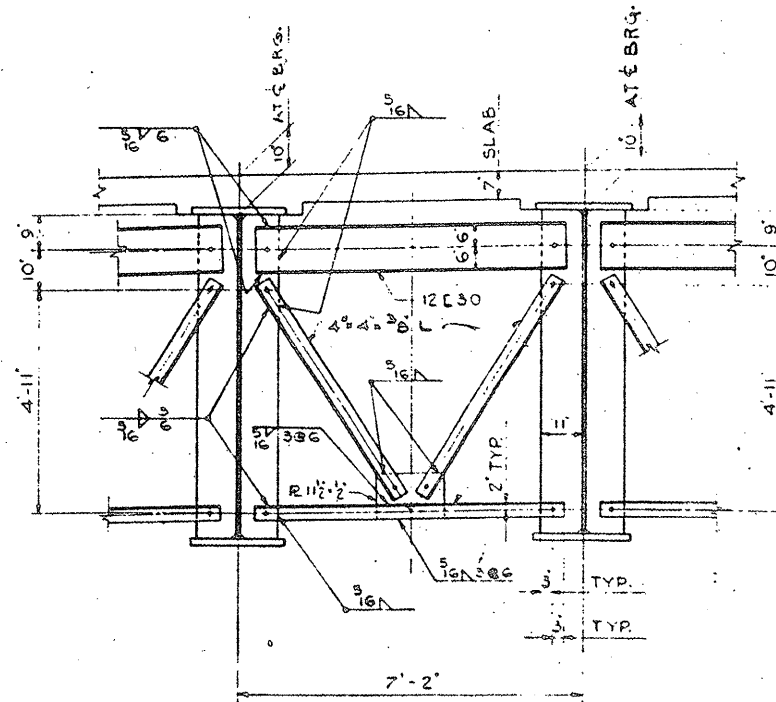


ROUTE VARIOUS	SECTION 2008-051 BP	COUNTY COOK	TOTAL SHEETS 34	SHEET NUMBER 27
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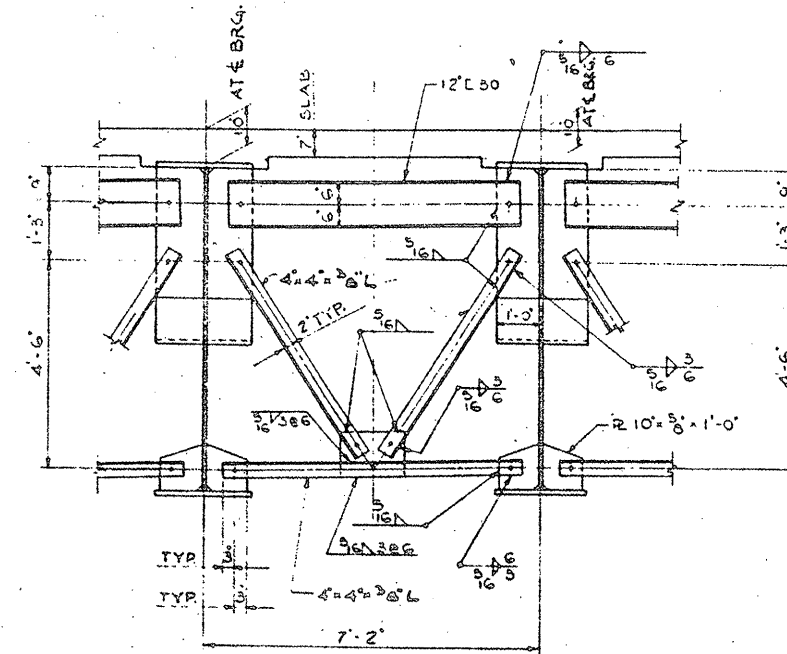
CONTRACT NO. 60F02



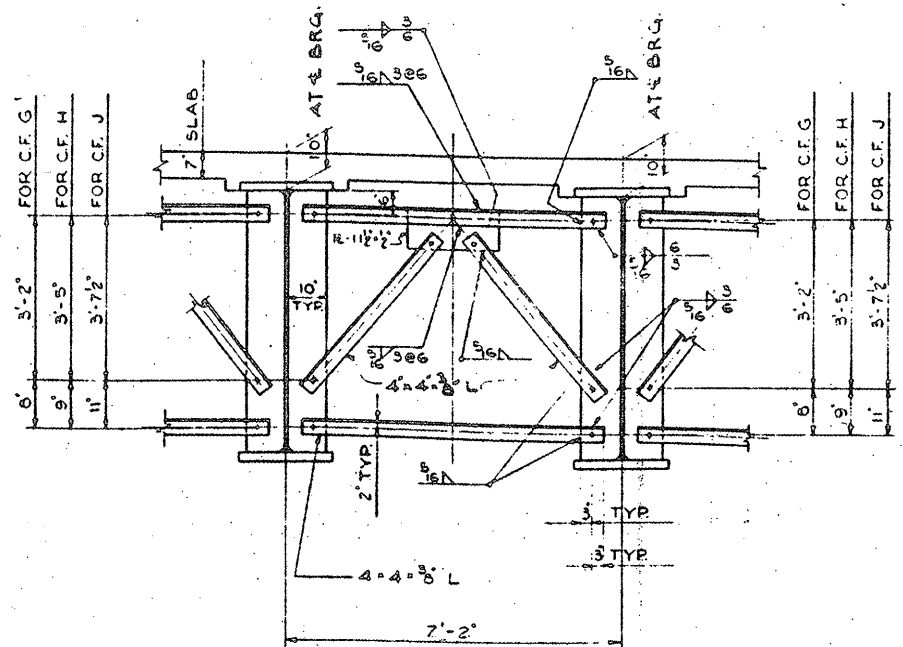
CROSS FRAME - E, D, K & L  
SCALE: 1/2" = 1'-0"



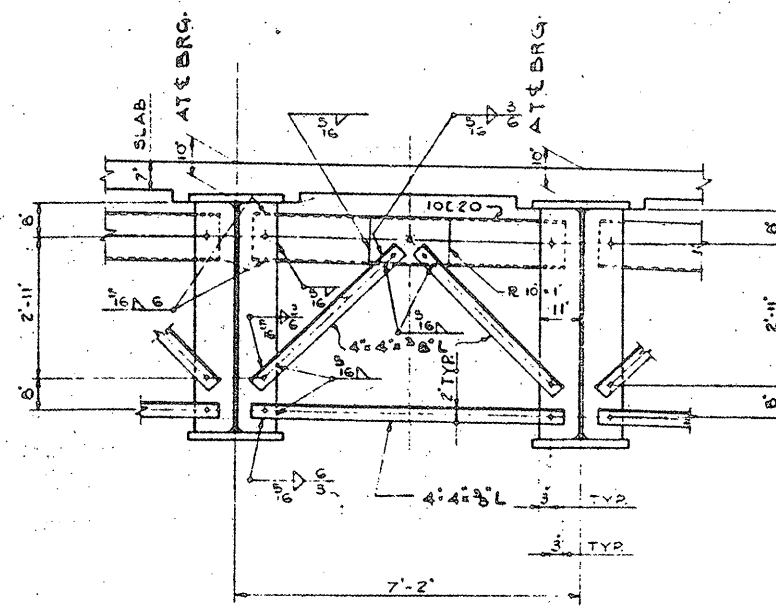
CROSS FRAME - C  
SCALE: 1/2" = 1'-0"



CROSS FRAME C1  
SCALE: 1/2" = 1'-0"



CROSS FRAME - G, H & J  
SCALE: 1/2" = 1'-0"



CROSS FRAME - F  
SCALE: 1/2" = 1'-0"

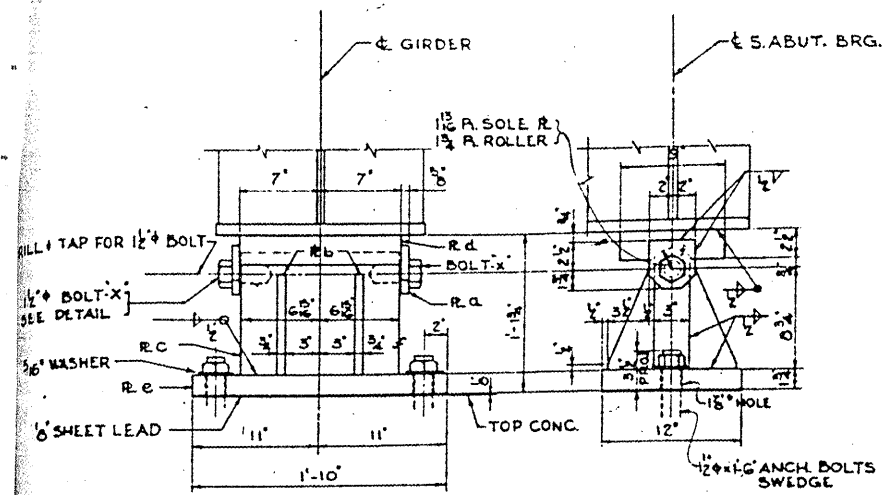
SHEET 6 OF 7a

**LOCATION NO.5**  
**EXIST. BRIDGE PLANS**  
**MILWAUKEE AVE. OVER**  
**I-90/94 SN 016-2045**



ROUTE VARIOUS	SECTION 2008-051 BP	COUNTY COOK	TOTAL SHEETS 38	SHEET NUMBER 28A
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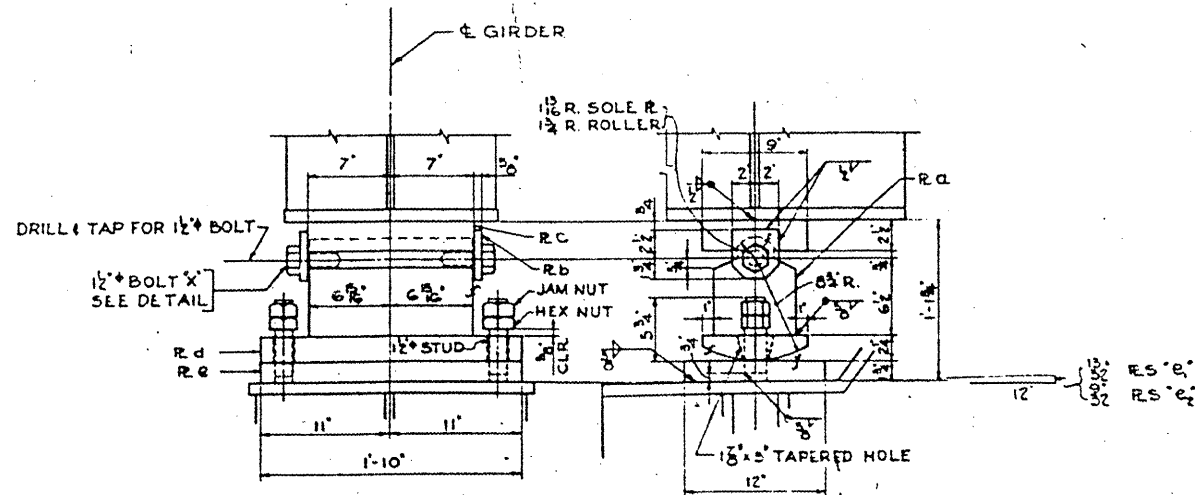
CONTRACT NO. 60F02



FIXED BEARING - TYPE 'A' - (10 REQ'D)

AT SOUTH ABUTMENT  
SCALE: 1/2" = 1'-0"

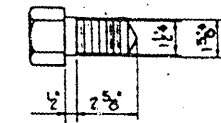
- MATERIAL**
- 2- R.A. - 4" x 5" x 4 1/2"
  - 4- R.B. - 4" x 3 1/2" x 5 1/2"
  - 1- R.C. - 10 1/2" x 3" x 1-1 1/8"
  - 1- R.D. - 9" x 2 1/2" x 1-2"
  - 1- R.E. - 12" x 1 1/2" x 1-10"
  - 2- SWEDGE A.B. 1 1/2" x 1'-6"
  - 2- BOLTS - X
  - 2- WASHERS - 3" x 3" x 5/16"



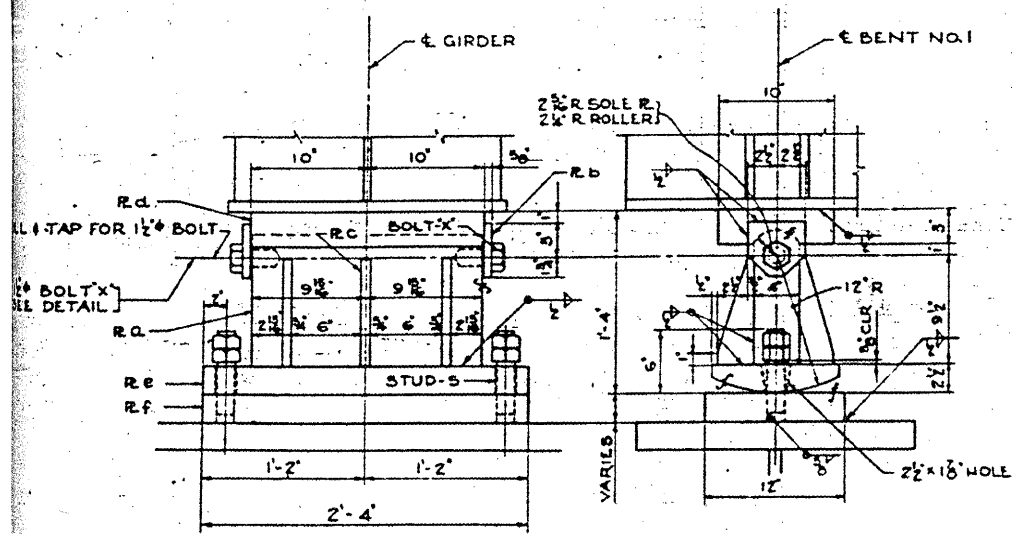
EXPANSION BEARING - TYPE 'B' - (10 REQ'D)

AT BENT NO. 1  
SCALE: 1/2" = 1'-0"

- MATERIAL**
- 1- R.A. - 8 1/4" x 7" x 1-1 1/8"
  - 2- R.B. - 4" x 3 1/2" x 5 1/2"
  - 1- R.C. - 9" x 2 1/2" x 1-2"
  - 1- R.D. - 9" x 2 1/2" x 1-10"
  - 1- R.E. - SEE TABLE
  - 2- STUDS 1 1/2" x 6 3/4"
  - 2- BOLTS - X
- R.S.'s**
- 5- R.S.'e. 12" x 1 1/2" x 1'-10" FOR GIRDERS - G4, G5, G6
  - 5- R.S.'e. 12" x 1 1/2" x 1'-10" FOR GIRDERS - G10, G11, G12



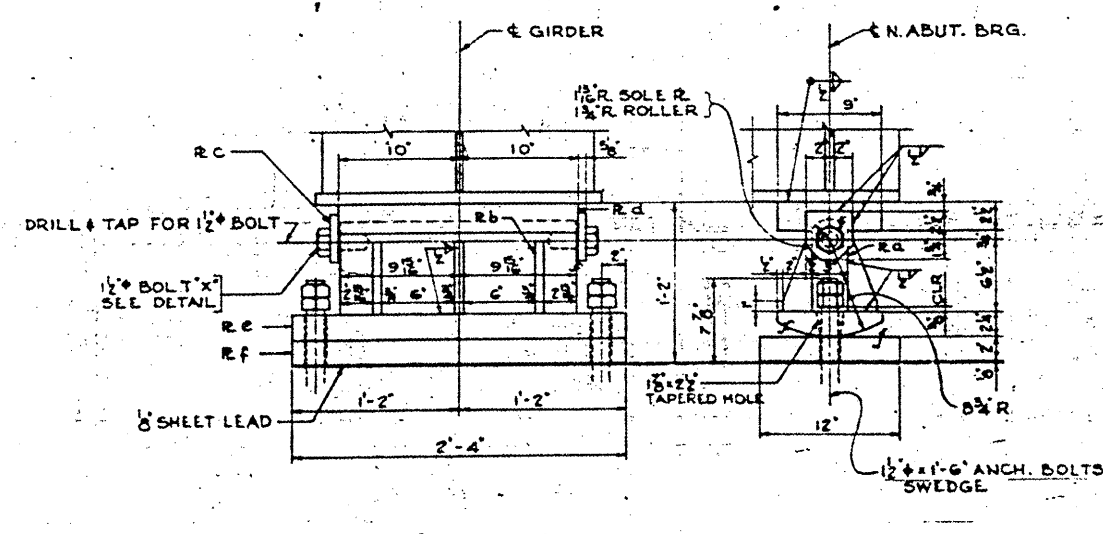
DETAIL BOLT-X  
3" x 1'-0"



EXPANSION BEARING - TYPE 'C' - (10 REQ'D)

AT BENT NO. 1  
SCALE: 1/2" = 1'-0"

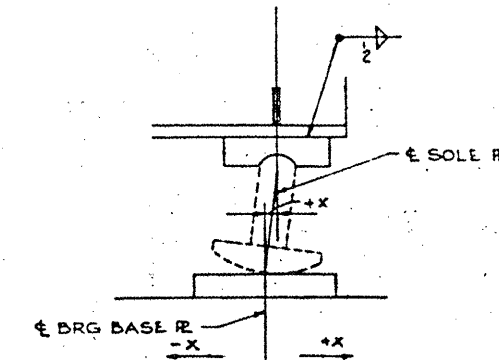
- MATERIAL**
- 1- R.A. - 11 1/2" x 4" x 1-7 1/8"
  - 2- R.B. - 5" x 3 1/2" x 5 1/2"
  - 6- R.C. - 3" x 3" x 9 1/2"
  - 1- R.D. - 10" x 3" x 1-5"
  - 1- R.E. - 11" x 2 1/2" x 2'-4"
  - 1- R.F. - SEE TABLE
  - 2- STUDS - S SEE TABLE
  - 2- BOLTS - X
- R.S.'s**
- 2- R.S.'f1 12" x 5 1/2" x 2'-4"
  - 2- R.S.'f2 12" x 6" x 2'-4"
  - 2- R.S.'f3 12" x 4 1/2" x 2'-4"
  - 2- R.S.'f4 12" x 2 1/2" x 2'-4"
  - 2- R.S.'f5 12" x 1 1/2" x 2'-4"
- STUDS 'S'**
- 4- STUDS 'S1' 1 1/2" x 11"
  - 4- STUDS 'S2' 1 1/2" x 11 1/4"
  - 4- STUDS 'S3' 1 1/2" x 9 3/8"
  - 4- STUDS 'S4' 1 1/2" x 8"
  - 4- STUDS 'S5' 1 1/2" x 6 3/4"



EXPANSION BEARING - TYPE 'D' - (10 REQ'D)

AT NORTH ABUTMENT  
SCALE: 1/2" = 1'-0"

- MATERIAL**
- 1- R.A. - 8 1/4" x 5" x 1-7 1/8"
  - 6- R.B. - 2 1/2" x 3 1/2" x 6 1/2"
  - 2- R.C. - 4" x 3 1/2" x 5 1/2"
  - 1- R.D. - 9" x 2 1/2" x 1-5"
  - 1- R.E. - 9" x 2 1/2" x 2'-4"
  - 1- R.F. - 12" x 2" x 2'-4"
  - 2- SWEDGE A.B. 1 1/2" x 1'-6"
  - 2- BOLTS - X



SOLE PLATE SETTING DIAGRAM  
1/2" = 1'-0"

DIMENSION 'X'					
TEMPERATURE	10'	30'	50'	70'	90'
BEARING 'B'	-1/16" S	-1/2" S	0	+1/2" N	+15/16" N
BEARING 'C'	-5/16" N	-5/16" N	0	+5/16" S	+5/8" S
BEARING 'D'	-5/8" S	-5/16" S	0	+5/16" N	+1/2" N

TOTAL ESTIMATED WEIGHT OF BEARINGS  
FILL PLATES AND ANCHOR BOLTS = 28,100 LBS.

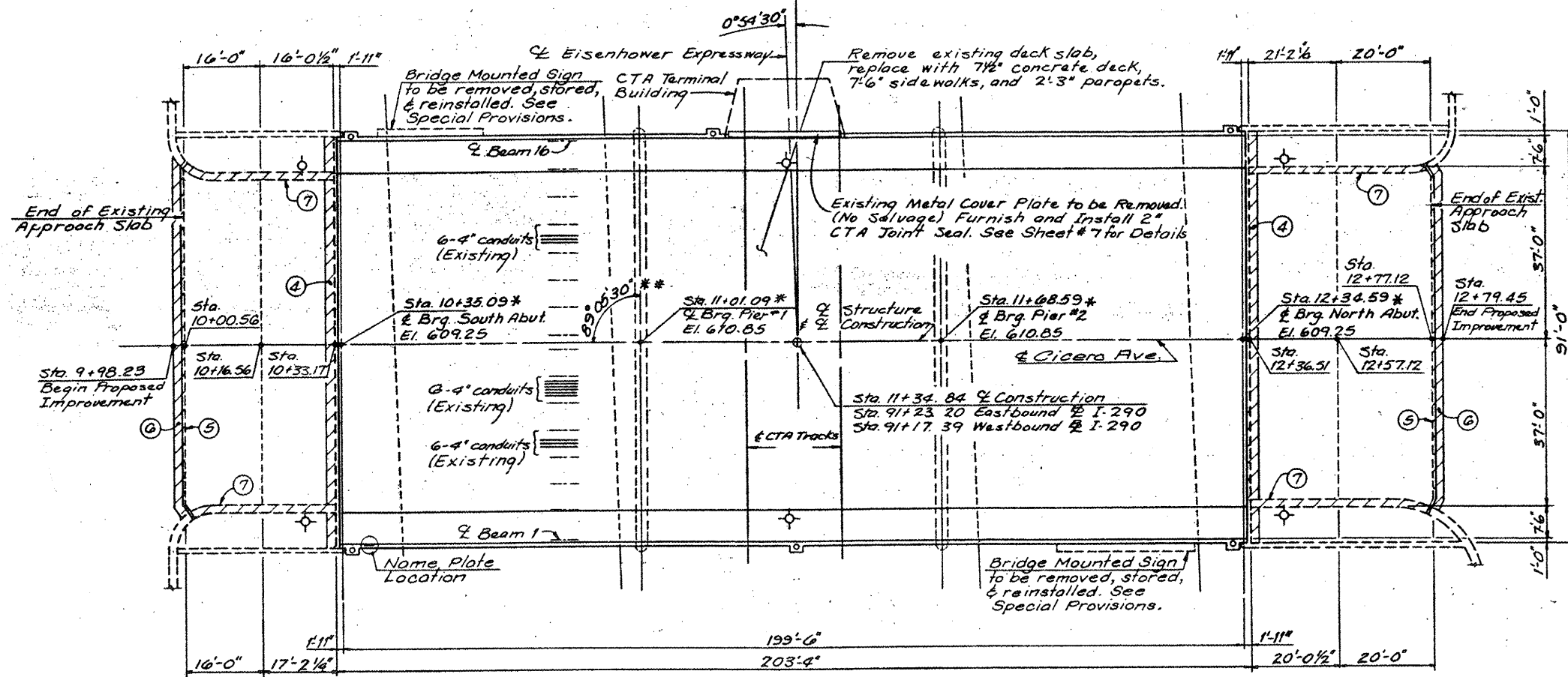
'N' & 'S' DESIGNATE MOVEMENT NORTH OR SOUTH OF THE SOLE PLATE WITH REFERENCE TO THE E OF THE BEARING BASE PLATE. NOTE: FOR BEARING 'B' THIS DESIGNATION REFERS TO THE MOVEMENT OF THE SOLE PLATE OF BEARING 'B' WITH RESPECT TO THE BASE PLATE OF BRG. 'B'.

**LOCATION NO.5**

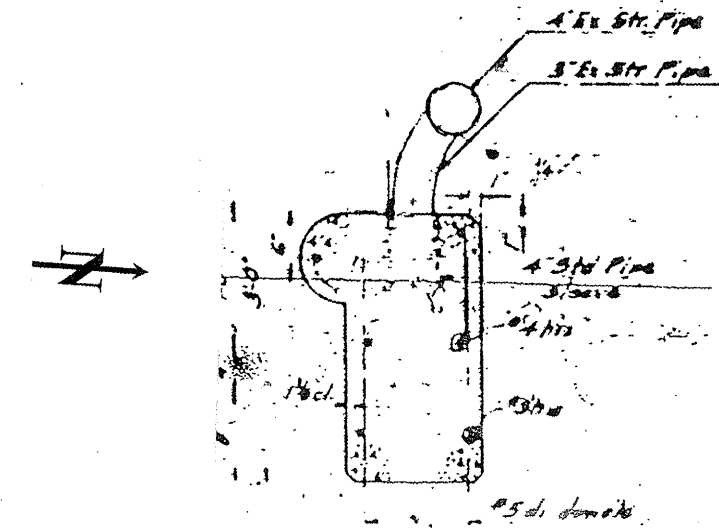
**EXIST. BRIDGE PLANS  
MILWAUKEE AVE. OVER  
I-90/94 SN 016-2045**

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2008-051 BP	COOK	38	29

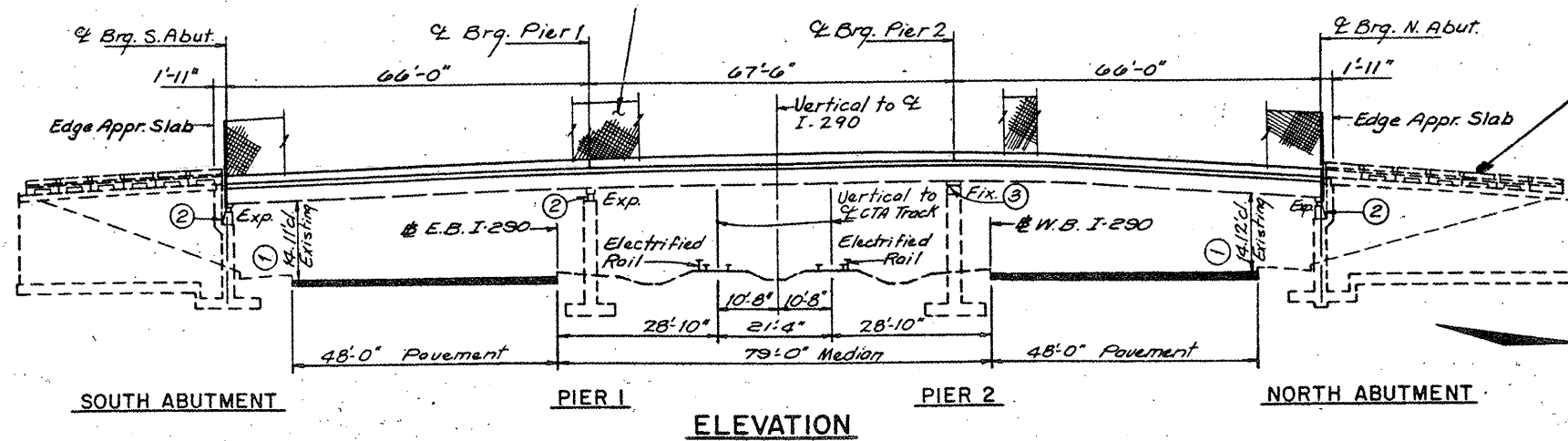
CONTRACT NO. 60F02



PLAN



DETAIL 1



ELEVATION

EXISTING 146' OF APPROACH RAILING TO BE PAINTED, 3" DIA. STR. STEEL PIPE AND 4" DIA. STR. STEEL PIPE (DETAIL 1)

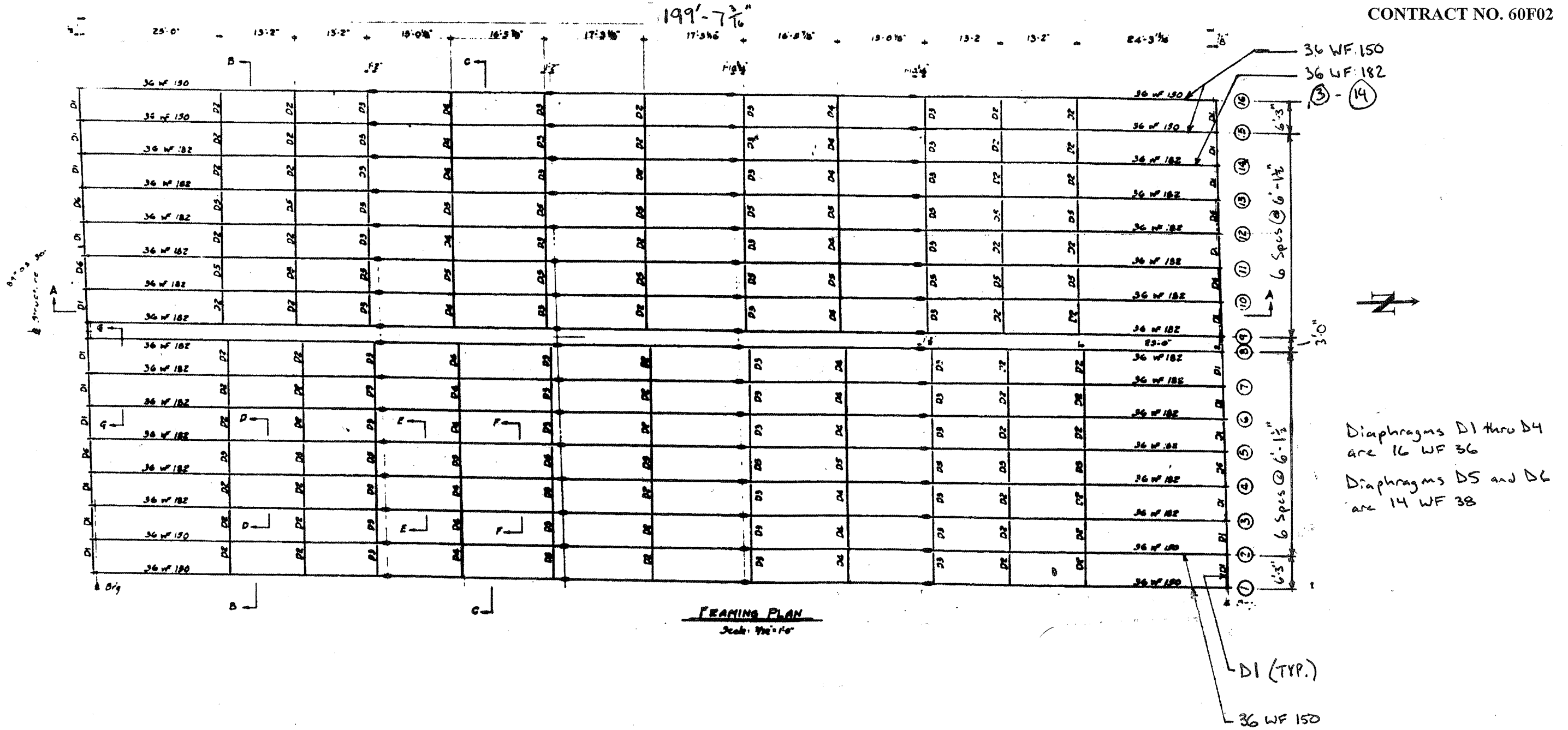
FOR INFORMATION ONLY

**LOCATION NO.6**

**EXIST. BRIDGE PLANS  
IL-50 OVER I-290  
SN 016-0406**

ROUTE VARIOUS	SECTION 2008-051 BP	COUNTY COOK	TOTAL SHEETS 38	SHEET NUMBER 30
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CONTRACT NO. 60F02



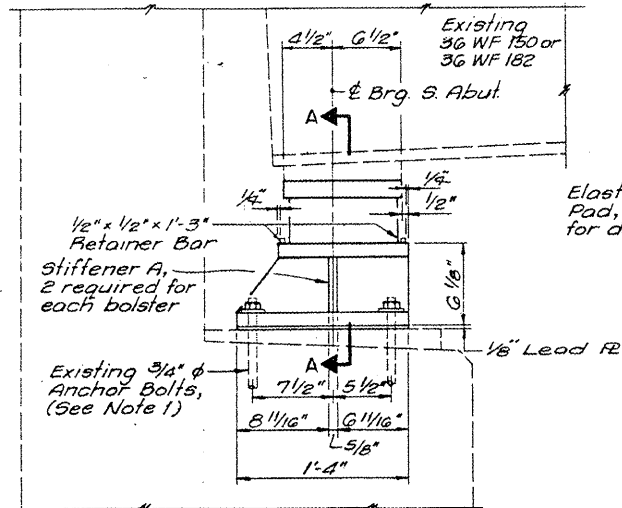
**LOCATION NO.6**

**EXIST. BRIDGE PLANS**  
**IL-50 OVER I-290**  
**SN 016-0406**

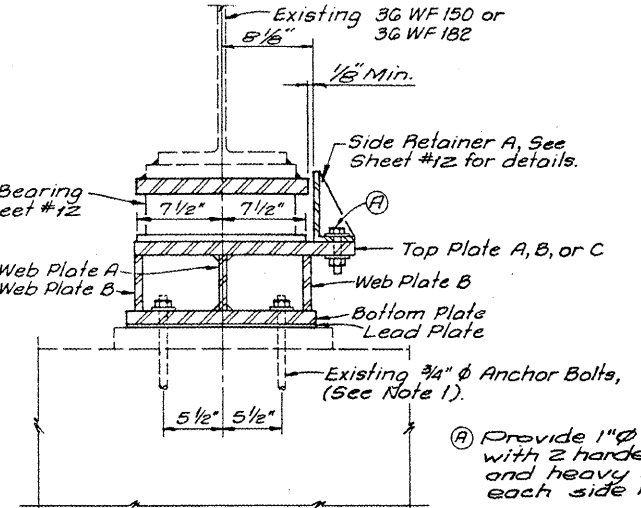


ROUTE VARIOUS	SECTION 2008-051 BP	COUNTY COOK	TOTAL SHEETS 38	SHEET NUMBER 30A
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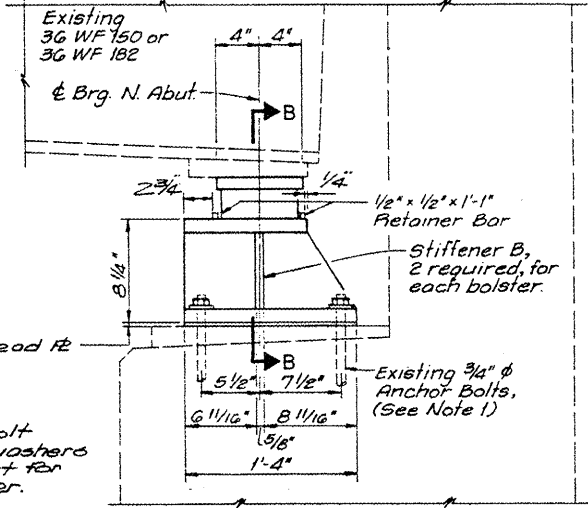
CONTRACT NO. 60F02



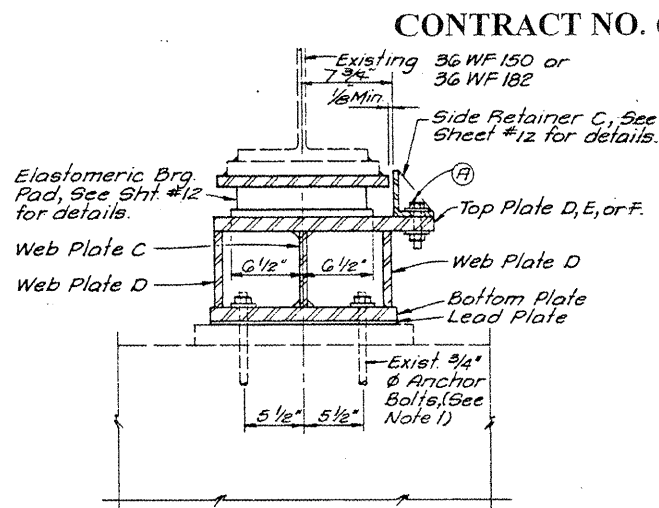
**ELEVATION**  
See Detail "B" for welds  
16 Bolsters Required  
(Shown without Side Retainer & Web Plate B)



**SECTION A-A**  
See Detail "A" for welds  
(Shown with Top Plate A)

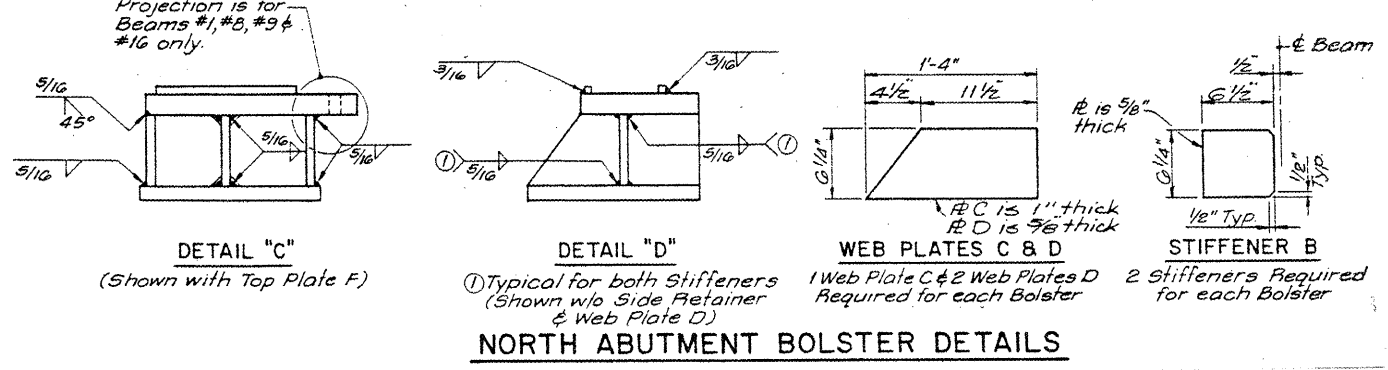
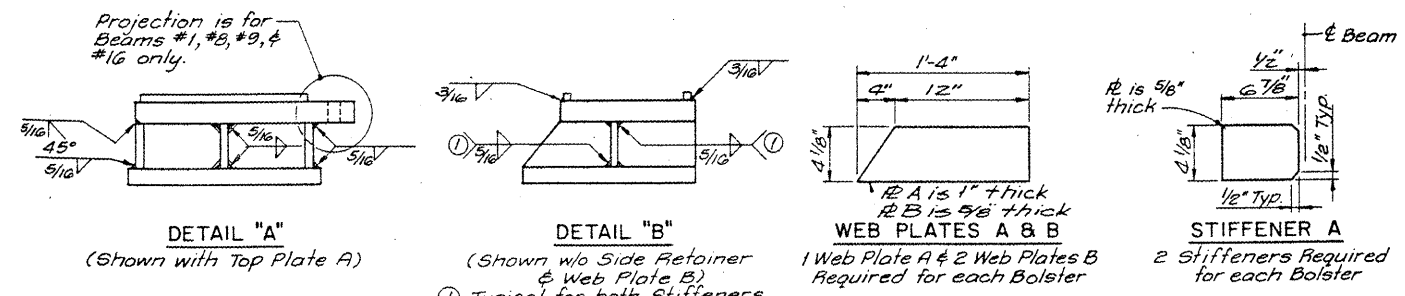
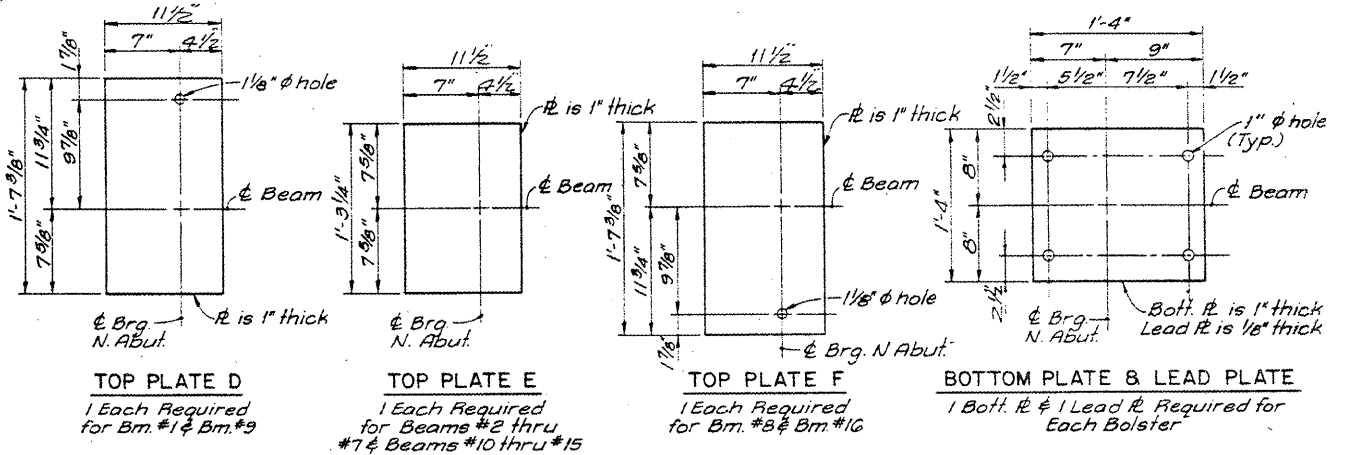
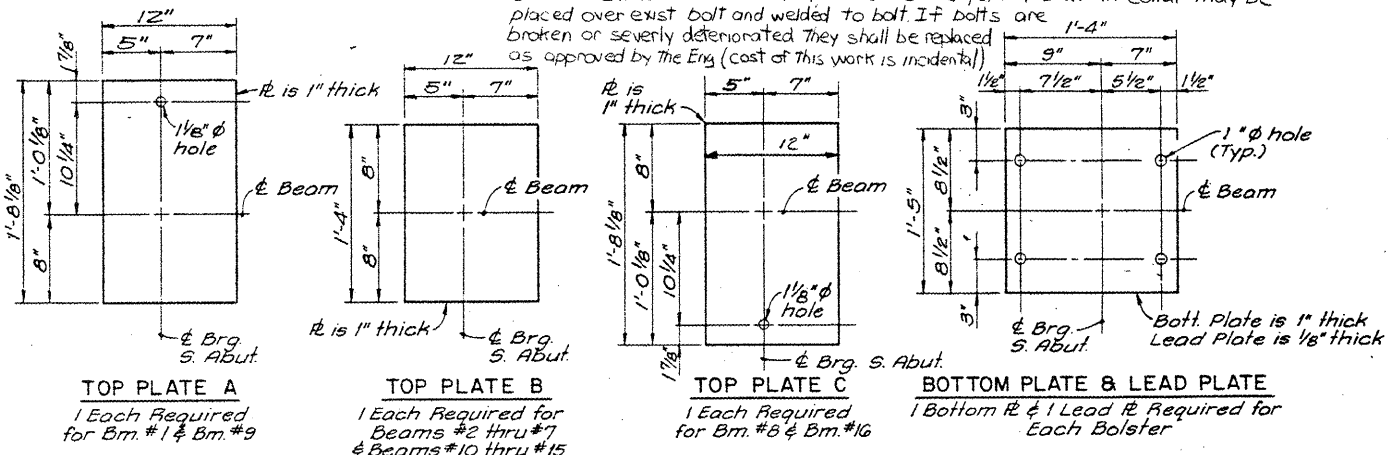


**ELEVATION**  
See Detail "D" for welds  
16 Bolsters Required  
(Shown without Side Retainer & Web Plate D)



**SECTION B-B**  
See Detail "C" for welds  
(Shown with Top Plate F)

Note 1:  
Provide new nut & hardened washer for each anchor bolt. (Shown with Top Plate A)  
Cut and Thread Existing Bolts for 2 1/2 min. Projection.  
If bolt cannot be rethreaded in lieu of nut, a 1/4" x 1" Th collar may be placed over exist bolt and welded to bolt. If bolts are broken or severely deteriorated they shall be replaced as approved by the Eng. (cost of this work is incidental)



**NORTH ABUTMENT BOLSTER DETAILS**

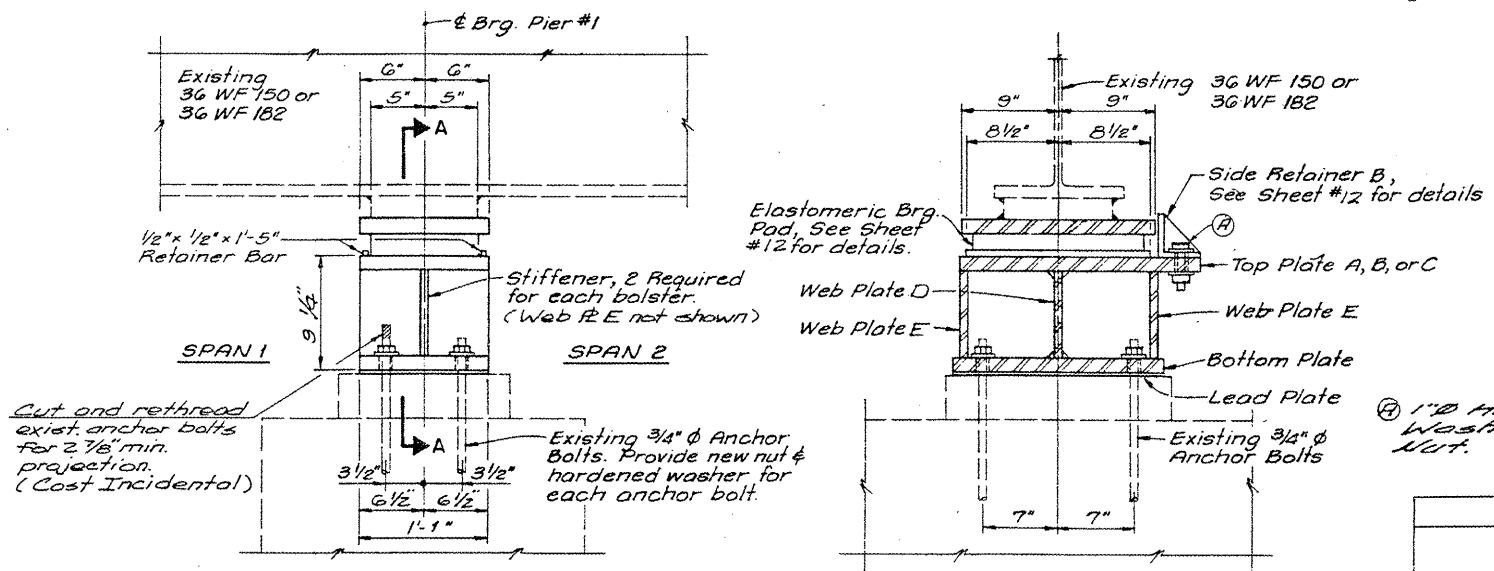
**SOUTH ABUTMENT BOLSTER DETAILS**

**LOCATION NO.6**  
**EXIST. BRIDGE PLANS**  
**IL-50 OVER I-290**  
**SN 016-0406**



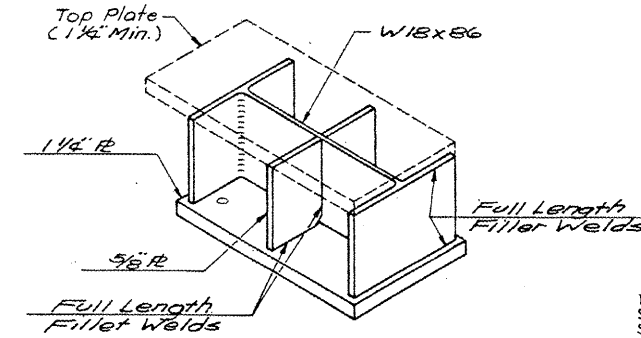
ROUTE VARIOUS	SECTION 2008-051 BP	COUNTY COOK	TOTAL SHEETS 38	SHEET NUMBER 30B
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CONTRACT NO. 60F02



**ELEVATION**  
See Detail "B" for welds  
16 Bolsters Required  
(Shown without Side Retainer or  
Web Plate E)

**SECTION A-A**  
See Detail "A" for welds



**ALTERNATE BOLSTER**

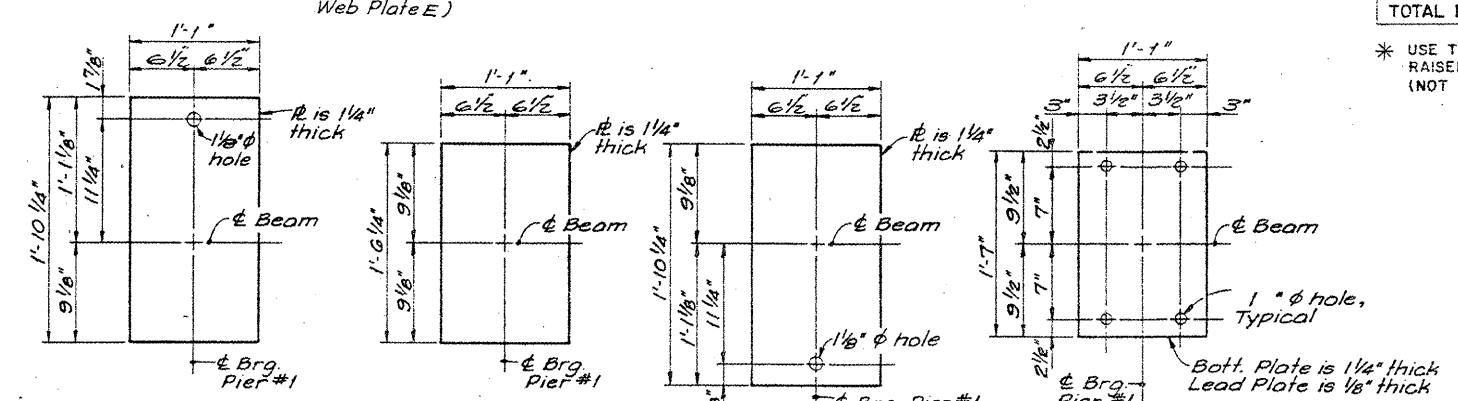
① 1" U.S. Bolt, 2 Hardened Washers, 1 Heavy Hex Nut.

	STRINGER REACTIONS (KIPS)					
	BEAM 1, 16		BEAM 2, 15		INTERIOR BEAMS	
	ABUT.	PIER	ABUT.	PIER	ABUT.	PIER
STEEL DEAD LOAD	4.4	12.3	4.7	13.0	6.3	17.5
CONC. DL *	26.4	73.8	23.5	65.6	19.0	52.9
CONST. DL (50PSF) *	4.3	11.9	8.1	22.7	9.7	27.0
TOTAL DL *	35.1	98.0	36.3	101.3	35.0	97.4

\* USE THESE REACTIONS ONLY IF BEAMS ARE RAISED BEFORE DECK IS REMOVED (NOT RECOMMENDED)

**JACKING PROCEDURE**

1. THE CONTRACTOR IS RESPONSIBLE FOR THE COMPLETE DESIGN OF THE BRIDGE STRINGER LIFTING PROCEDURES, METHODS AND MATERIALS USED. THE CONTRACTOR WILL SUBMIT THE JACKING PROCEDURE TO THE ENGINEER FOR REVIEW AND APPROVAL BEFORE ANY MATERIALS ARE ORDERED OR USED.
2. THE CRIBBING AND JACKS SHALL BE DESIGNED FOR THE BRIDGE DEAD LOAD AS GIVEN IN THE TABLES. NO LIVE LOAD WILL BE PERMITTED ON THE PORTION OF THE BRIDGE BEING RAISED.
3. THE BEARING AREA FOR THE JACKING TOWERS, IF USED, WILL BE DETERMINED BY THE CONTRACTOR AFTER PENETROMETER TESTS.
4. DUE TO THE UNYIELDING NATURE OF THE UNDERBRIDGE ASBESTOS-CEMENT UTILITY CONDUITS, THE MAXIMUM ALLOWABLE BEAM RISE AT THE ABUTMENTS TO CLEAR THE BEARINGS IS 1/4 INCH. WITH THIS LIMITATION, REMOVAL OF THE BEARING ROLLER CAN BE ACCOMPLISHED BY SIDWARD EXTRACTION, AS DETAILED. THE ROCKER BEARINGS AT PIER 1 CAN BE REMOVED BY CUTTING THE ROCKER TOP-PINTLES BY A SUITABLE METHOD WHICH WILL NOT DAMAGE THE BEARING TOP PLATE. THE CONTRACTOR MAY SUBMIT AN ALTERNATE REMOVAL METHOD FOR APPROVAL WHICH MUST INCLUDE PROPOSED TREATMENT FOR THE UTILITY CONDUITS.
5. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION AND MAINTENANCE OF THE EXISTING UTILITY CONDUITS AND SHALL REPAIR OR REPLACE ANY CONDUIT DAMAGED BY HIS OPERATIONS AT NO ADDITIONAL EXPENSE TO THE STATE.
6. DURING THE JACKING OF THE BRIDGE STRINGERS, THE DIFFERENCE IN RAISED HEIGHT IN THE TRANSVERSE DIRECTION BETWEEN ANY TWO ADJACENT BEAMS SHALL NOT EXCEED 1/8 INCH.
7. JACKING TOWERS, HYDRAULIC JACKS, GAUGES, STEEL SHIMPLATES, BLOCKING AND CRIBBING AND ALL EQUIPMENT AND LABOR NECESSARY TO COMPLETE THE BRIDGE RAISING TO REPLACE THE BEARINGS ARE INCLUDED IN THE SPECIAL PROVISION "RAISING THE BRIDGE TO ALLOW BEARING REPLACEMENT" AND PAID FOR AS "JACKING EXISTING STRINGERS."
8. To eliminate jacking towers and disruption to traffic, the recommended lifting procedure is to install jacks on the abutments and the pier. Use hardwood blocking between the diaphragm flanges and jack against the diaphragms while the bridge deck is removed.

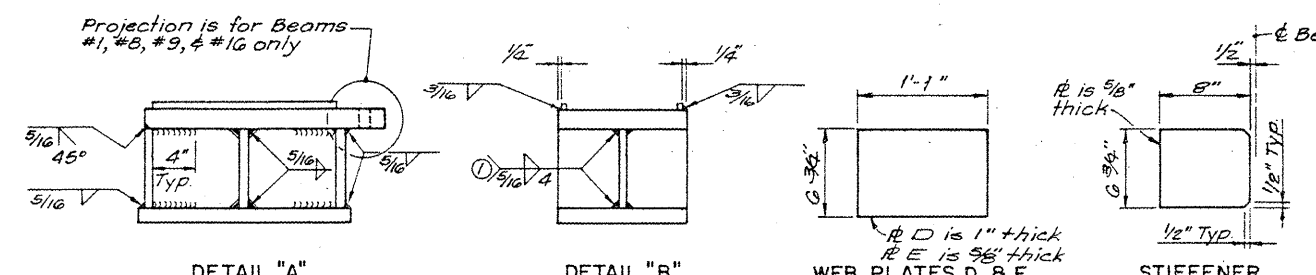


**TOP PLATE A**  
1 Each Required for Bm.#1 & Bm.#9

**TOP PLATE B**  
1 Each Required for Beams #2 thru #7 & Beams #10 thru #15

**TOP PLATE C**  
1 Each Required for Bm.#8 & Bm.#16

**BOTTOM PLATE & LEAD PLATE**  
1 Bottom Pl. & 1 Lead Pl. Required for Each Bolster



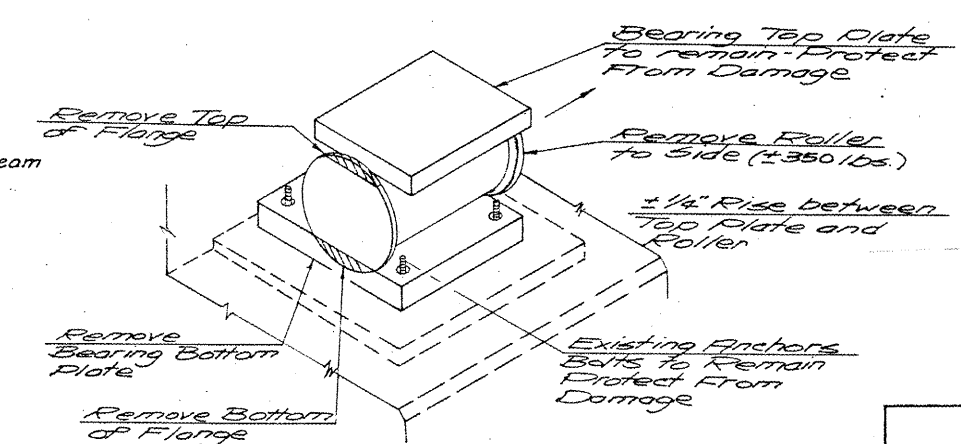
**DETAIL "A"**  
(Shown with Top Plate A)

**DETAIL "B"**  
① Typical for both Stiffeners  
(Shown w/o Side Retainer or Web Plate E)

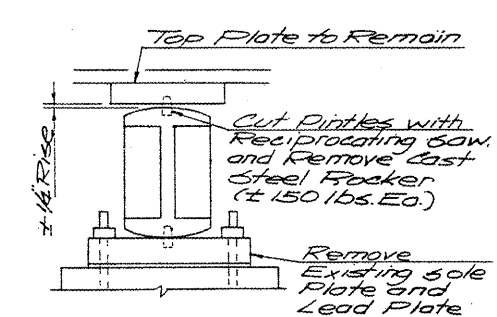
**WEB PLATES D & E**  
1 Web Plate A & 2 Web Plates B Required for each Bolster

**STIFFENER**  
2 Required for each bolster

**PIER 1 BOLSTER DETAILS**



**BEARING REMOVAL DETAIL AT ABUTMENT**



**BEARING REMOVAL DETAIL**

Note: Work this sheet with sheets #12 & #13.

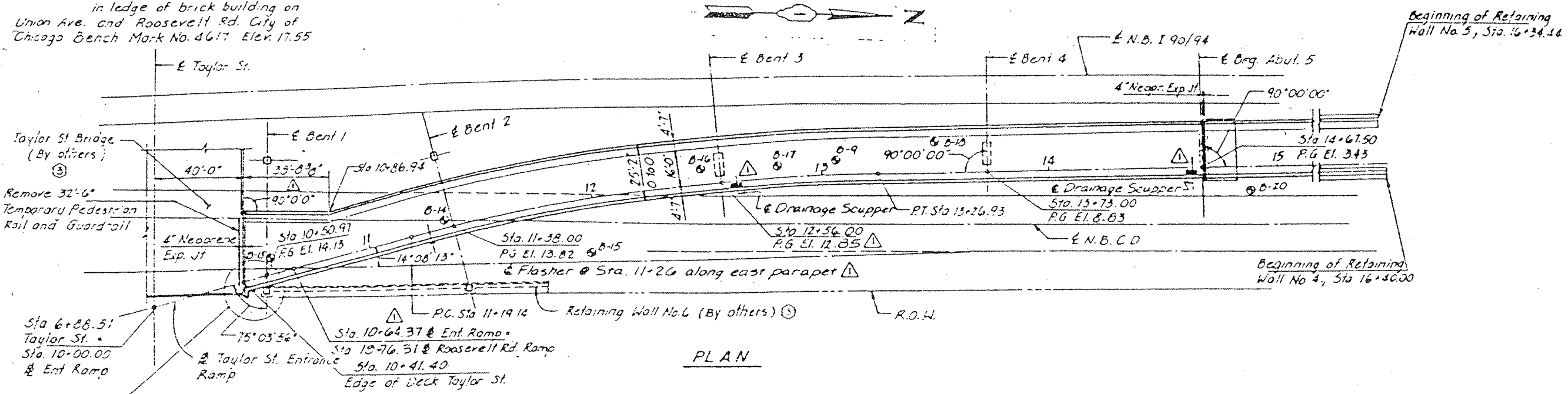
**LOCATION NO.6**

**EXIST. BRIDGE PLANS  
IL-50 OVER I-290  
SN 016-0406**

ROUTE VARIOUS	SECTION 2008-051 BP	COUNTY COOK	TOTAL SHEETS 38	SHEET NUMBER 31
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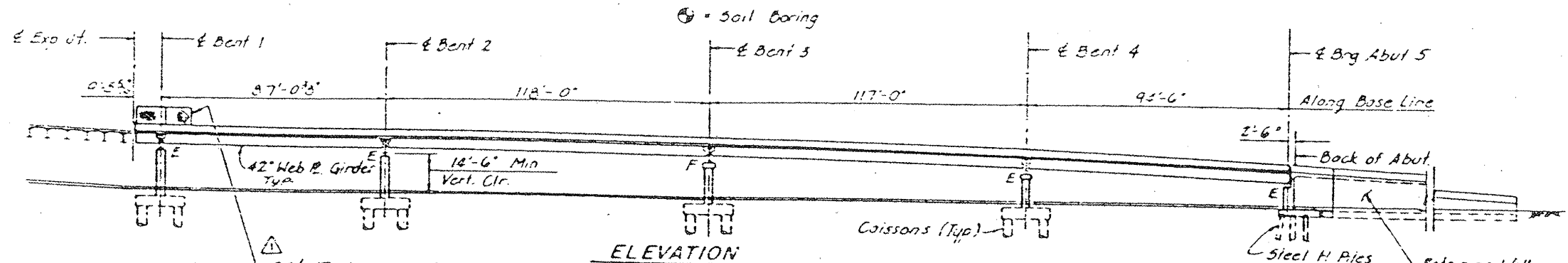
CONTRACT NO. 60F02

U.R.  
in ledge of brick building on  
Union Ave. and Roosevelt Rd. City of  
Chicago Bench Mark No. 4617 Elev. 17.55



PLAN

See Detail 1  
Sheet No. 2



ELEVATION

20'- Pedestrian Railing - 6 ft.  
along east and west parapets  
(See Sheet ML26 for Railing details.  
See Sheet ENT 13 for Post Spacing.)

\*\* For Rustication Details and  
Geocomposite Wall Drain  
Details, see Volume #4,  
Sheet RH/30

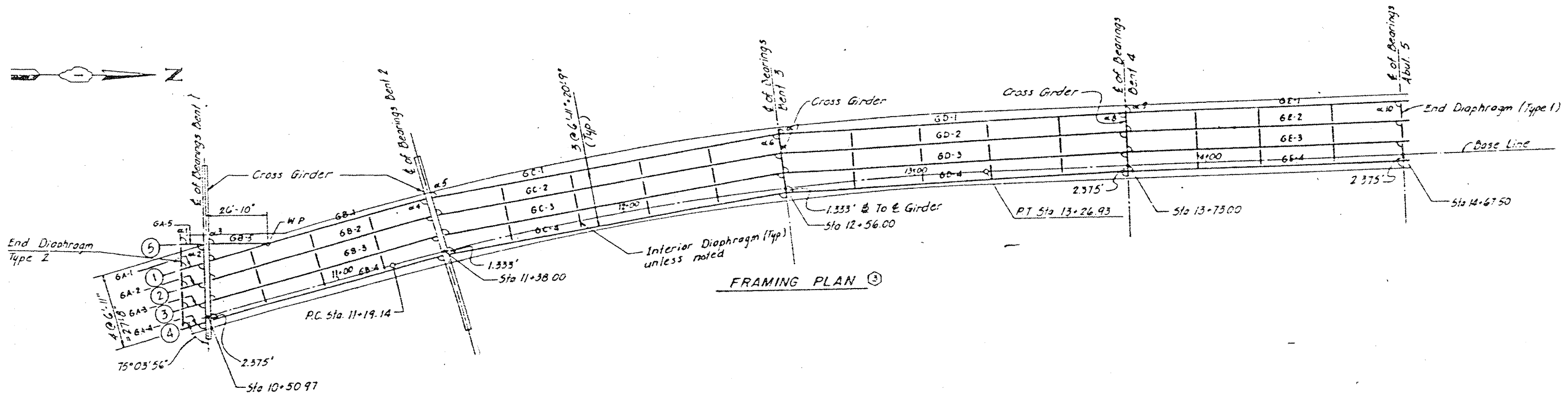
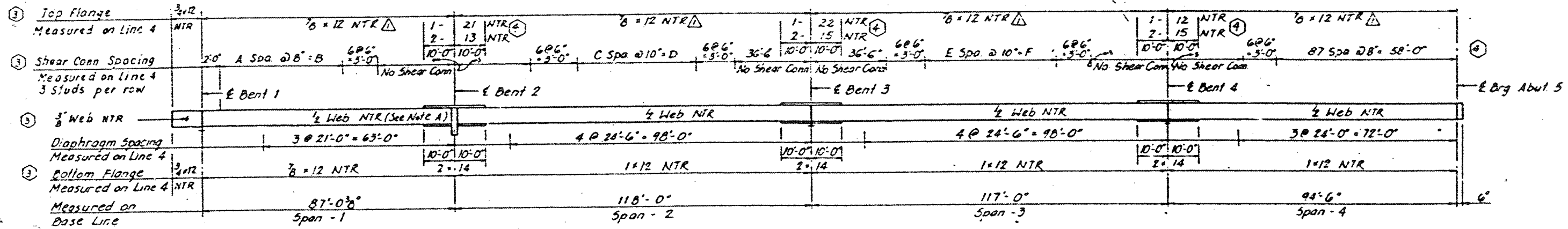
For General Plan  
& Elevation of  
Retaining Wall  
Nos 4 & 5 See  
Sheets GEN 3 &  
GEN 4 in Vol. 4

FOR  
INFORMATION  
ONLY

**LOCATION NO.7**  
**EXIST. BRIDGE PLANS**  
**TAYLOR ST. RAMP TO NB**  
**I-90/94 SN 016-2535**

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2008-051 BP	COOK	36	32

CONTRACT NO. 60F02



**LOCATION NO.7**

**EXIST. BRIDGE PLANS**

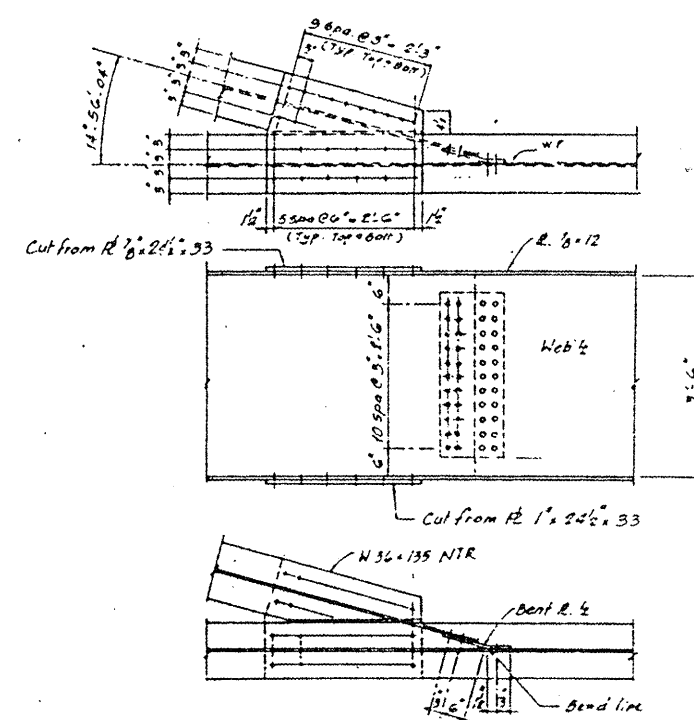
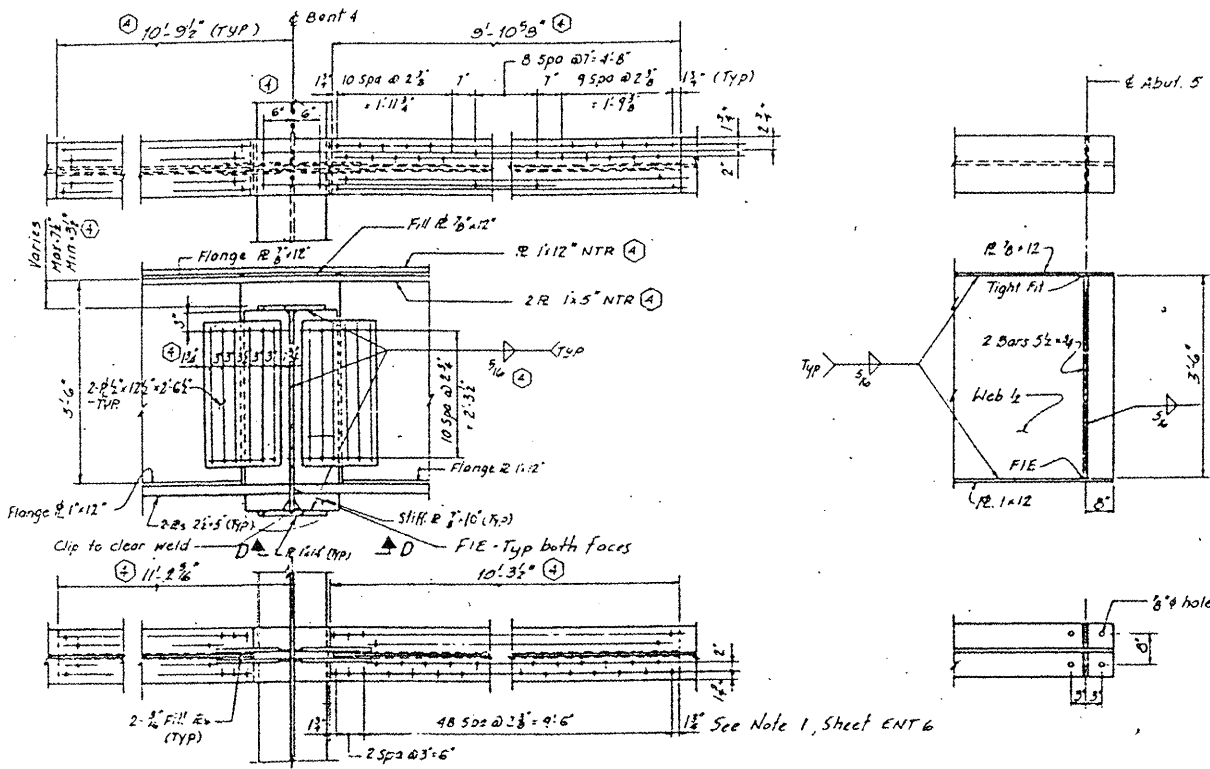
**TAYLOR ST. RAMP TO NB**

**I-90/94 SN 016-2535**



ROUTE VARIOUS	SECTION 2008-051 BP	COUNTY COOK	TOTAL SHEETS 38	SHEET NUMBER 34
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CONTRACT NO. 60F02

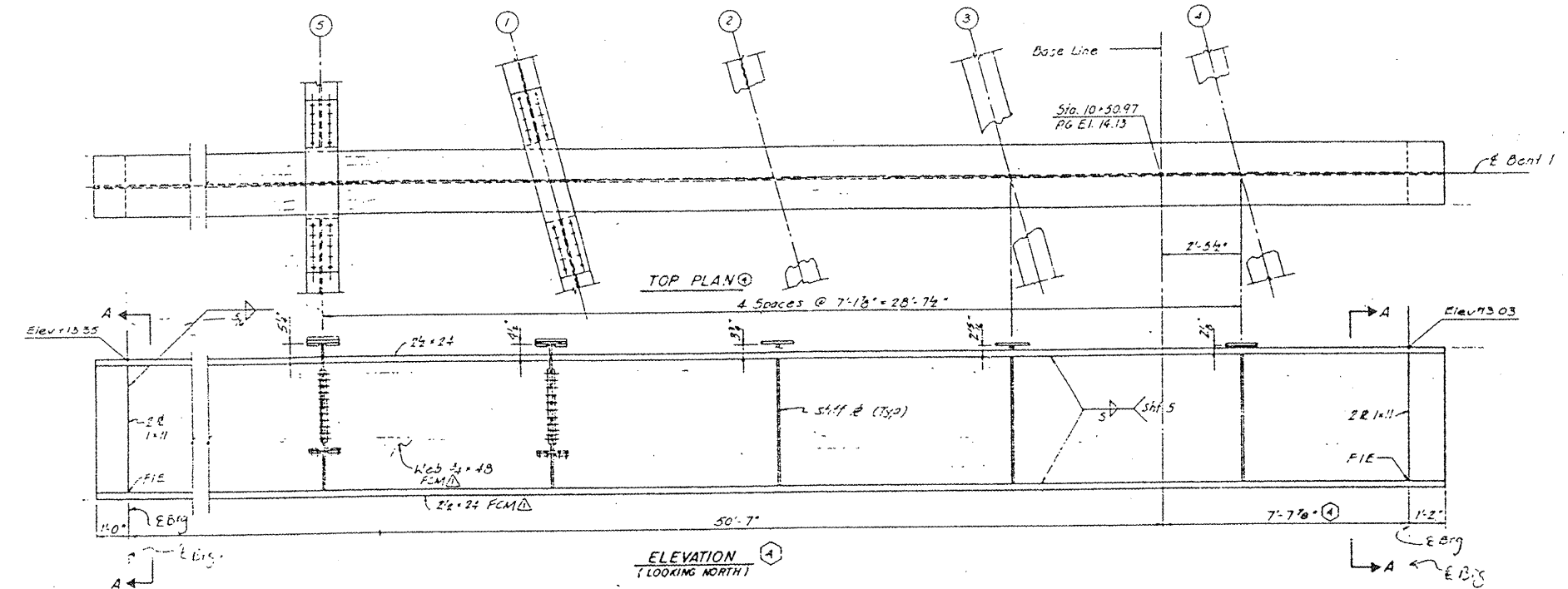


**BENT NO. 4** (b)(4)

All Bolts for this connection to be 1\"/>

**SHORT GIRDER CONNECTION**

**SPAN 1**

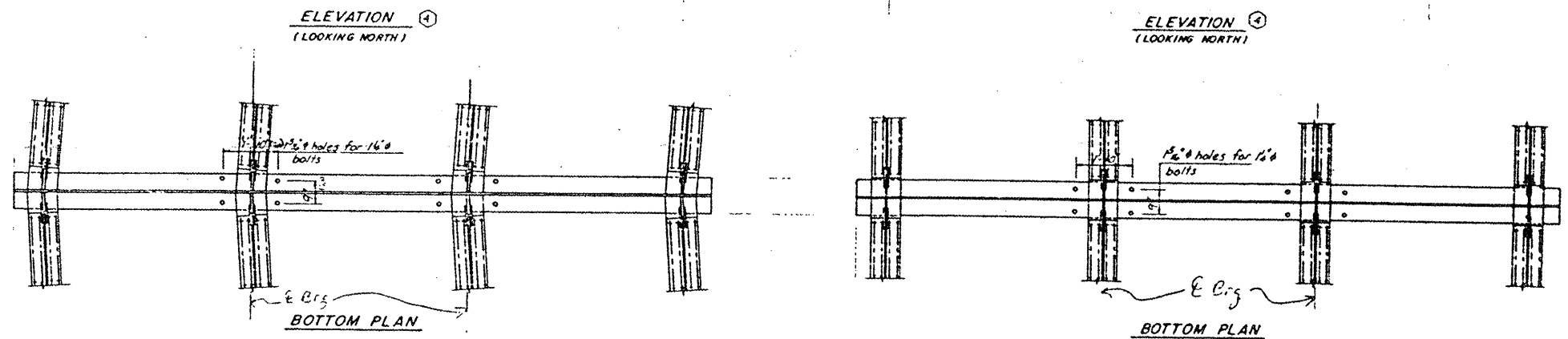
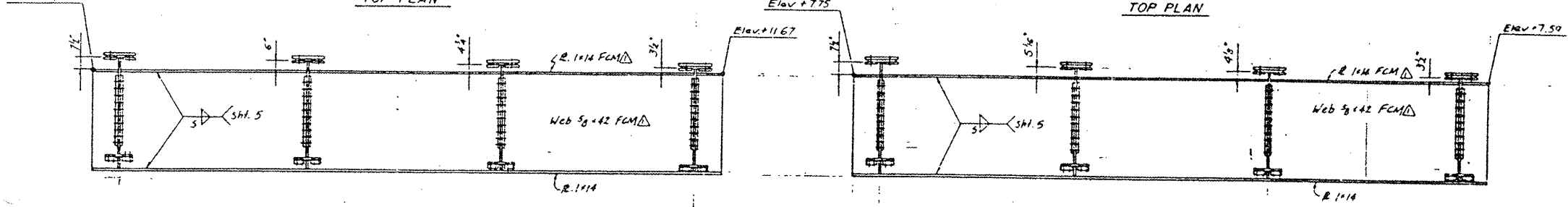
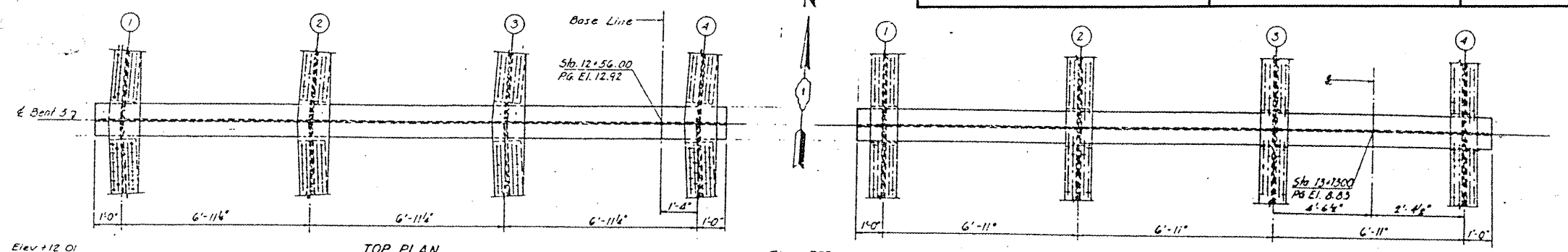


**LOCATION NO.7**  
**EXIST. BRIDGE PLANS**  
**TAYLOR ST. RAMP TO NB**  
**I-90/94 SN 016-2535**

**BENT NO. 1 - CROSS CAP** (A)

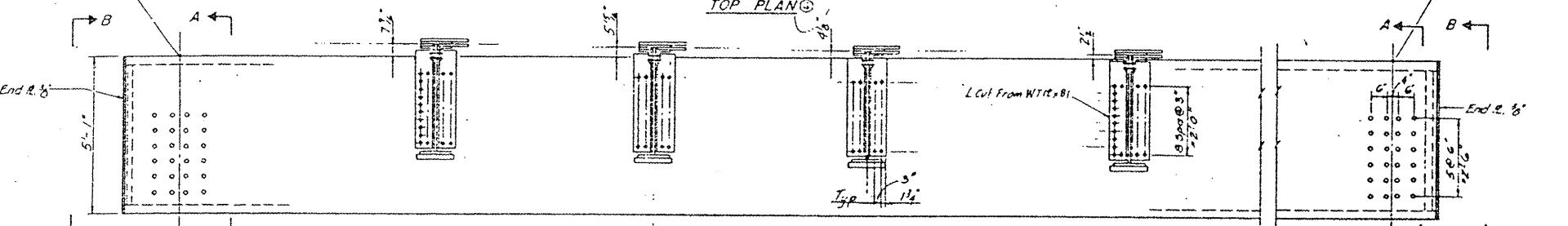
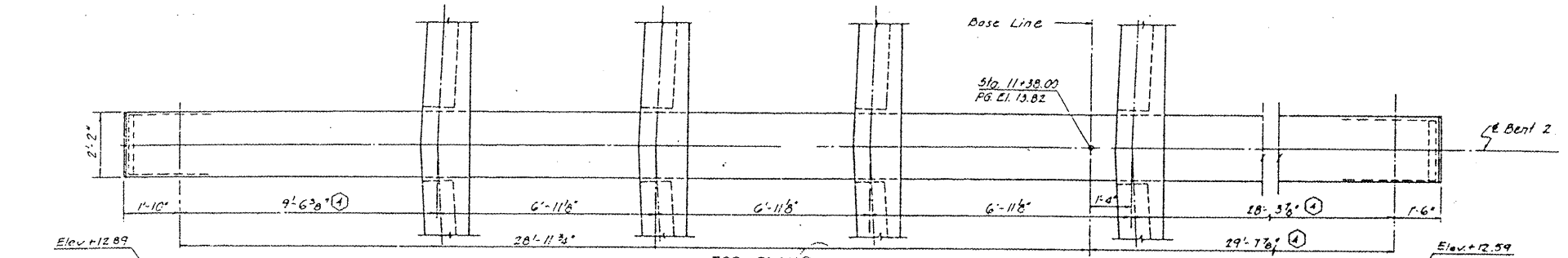
ROUTE VARIOUS	SECTION 2008-051 BP	COUNTY COOK	TOTAL SHEETS 38	SHEET NUMBER 35
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CONTRACT NO. 60F02



BENT NO. 3 - CROSS CAP

BENT NO. 4 - CROSS CAP



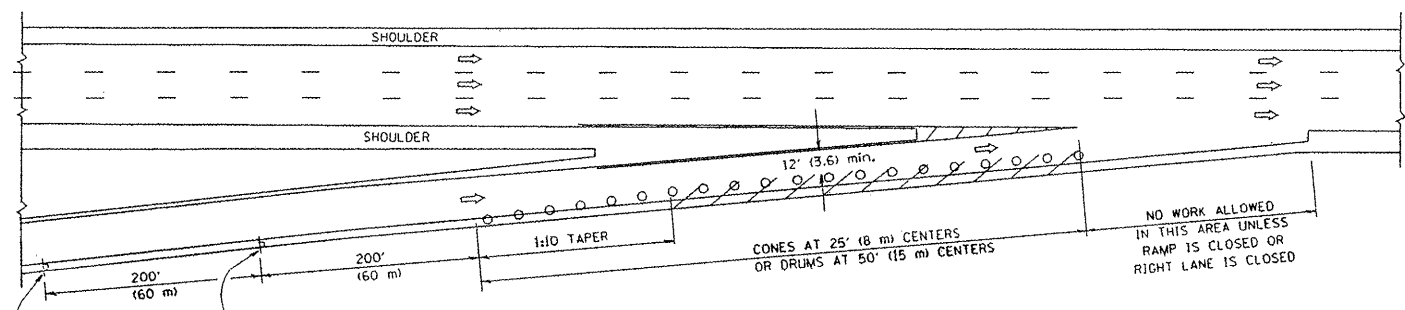
BENT NO. 2 - CROSS CAP

SHEET 5 OF 5

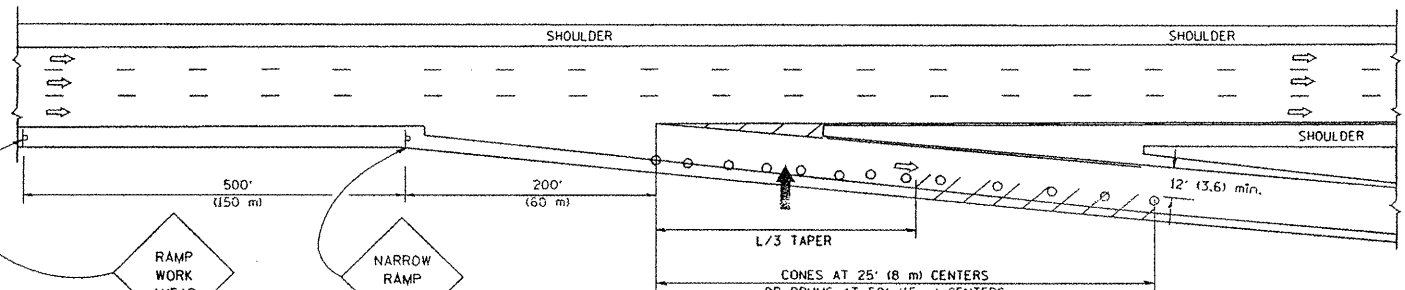
**LOCATION NO.7**  
**EXIST. BRIDGE PLANS**  
**TAYLOR ST. RAMP TO NB**  
**I-90/94 SN 016-2535**



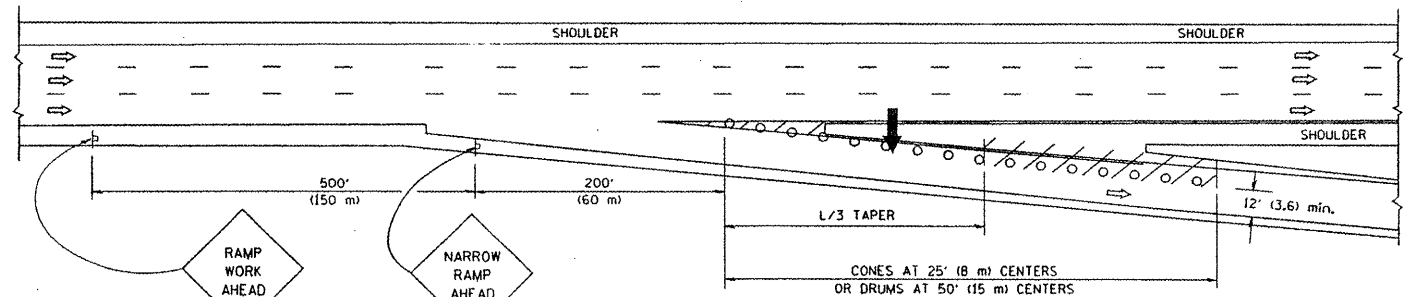
PARTIAL RAMP CLOSURE DETAILS



TYPICAL ENTRANCE RAMP



TYPICAL EXIT RAMP



TYPICAL EXIT RAMP

SYMBOLS

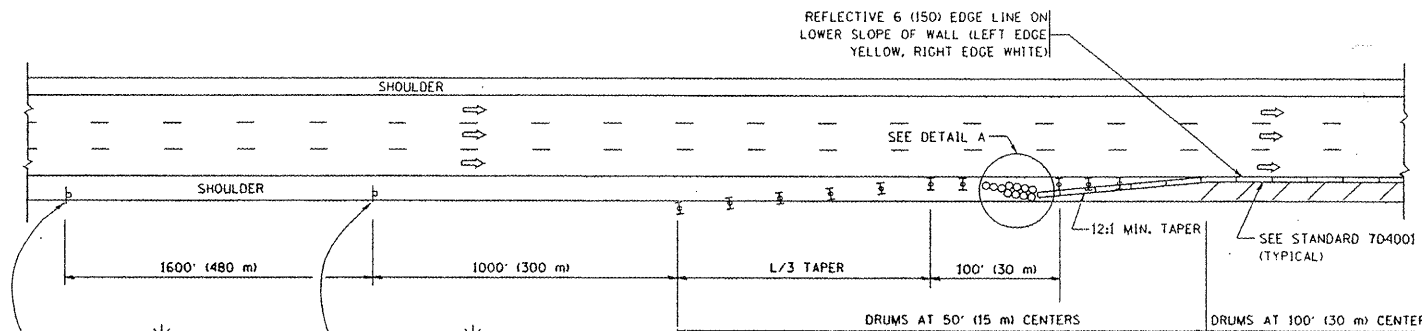
- ARROWBOARD
- WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- TYPE II BARRICADE, DRUM OR VERTICAL BARRICADE WITH STEADY BURN MONO-DIRECTIONAL LIGHT
- CONE, DRUM OR BARRICADE

GENERAL NOTES

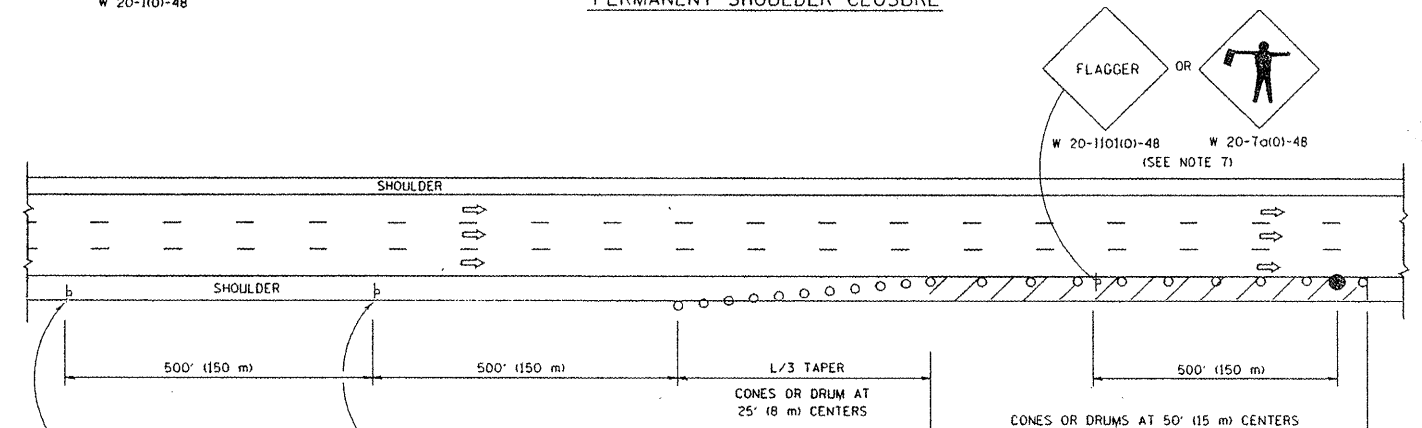
1. THE "L" DISTANCE EQUALS:
 

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 ENCRDACH 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 FOR POSTED SPEED.

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

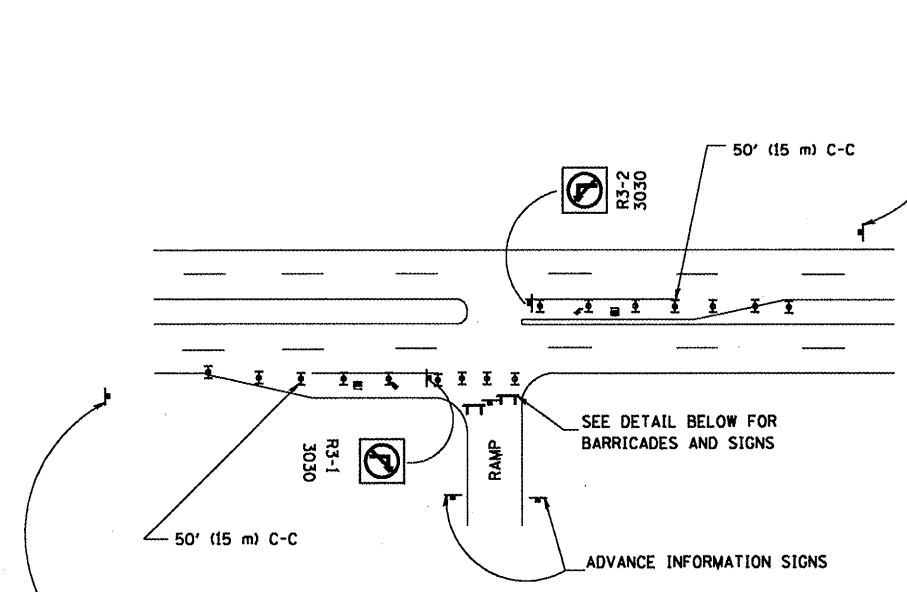
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME = W:\dststd\22x34\1c17.dgn	USER NAME = gajlonobt	DESIGNED -	REVISED - J.A.F. 12-02
		DRAWN - D.W.S.	REVISED - 04-03
PLOT SCALE = 50.0000 "/td> <td></td> <td>CHECKED -</td> <td>REVISED - J.A.F. 12-06</td>		CHECKED -	REVISED - J.A.F. 12-06
PLOT DATE = 1/4/2008		DATE - 11-96	REVISED - S.P.B. 01-07

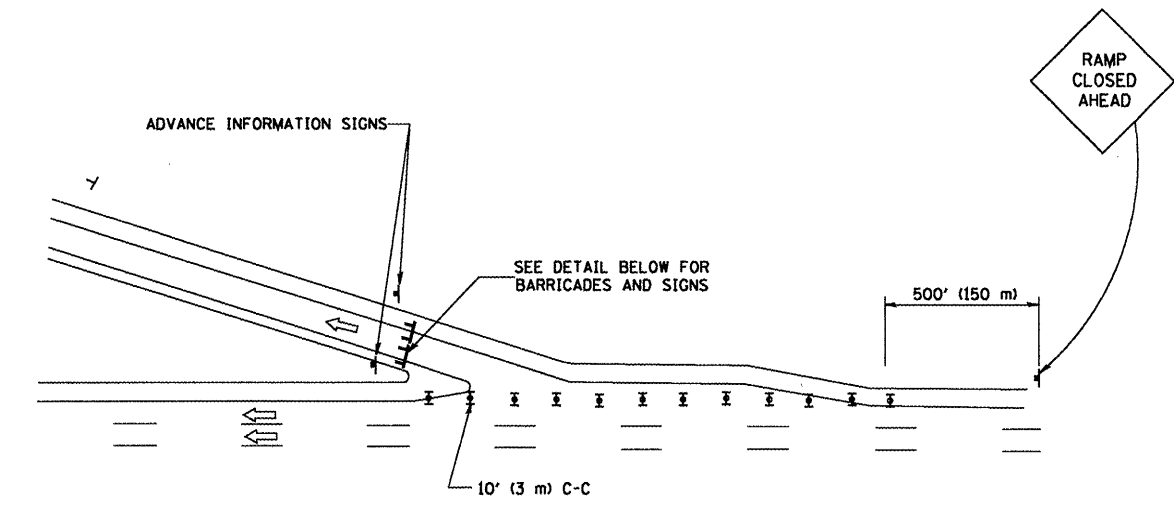
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES	
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A. - RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR. 2009-051 BP	TC-17	COOK	38	36
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT			CONTRACT NO. 60F02	

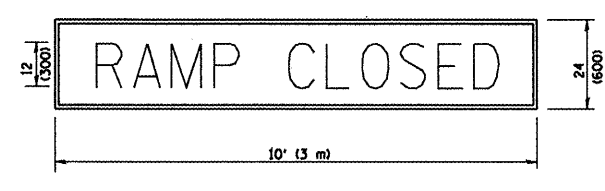


ENTRANCE RAMP CLOSURE



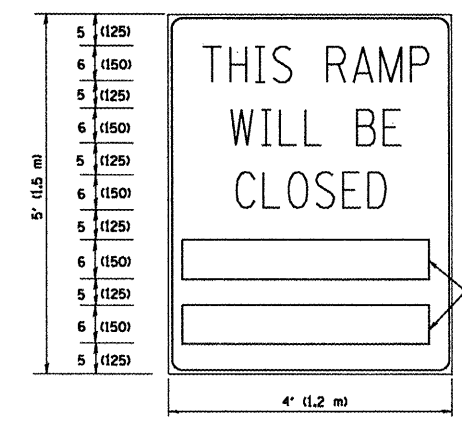
EXIT RAMP CLOSURE

RAMP CLOSURE ADVANCE WARNING SIGN



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

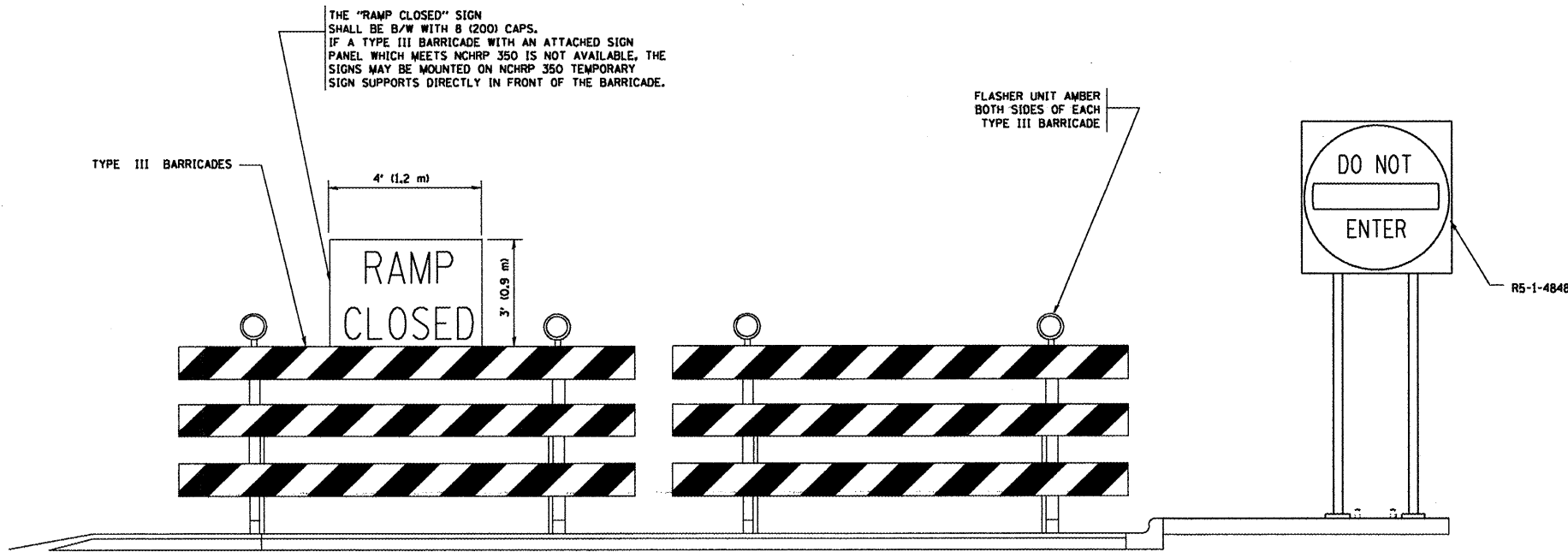


BLACK LEGEND ON WHITE REFLECTORIZED BACKGROUND  
1/2 (12) BORDER  
THESE BLANK AREAS SHALL BE FILLED WITH THE DATES AND THE TIME THAT THE RAMP WILL BE CLOSED.

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.



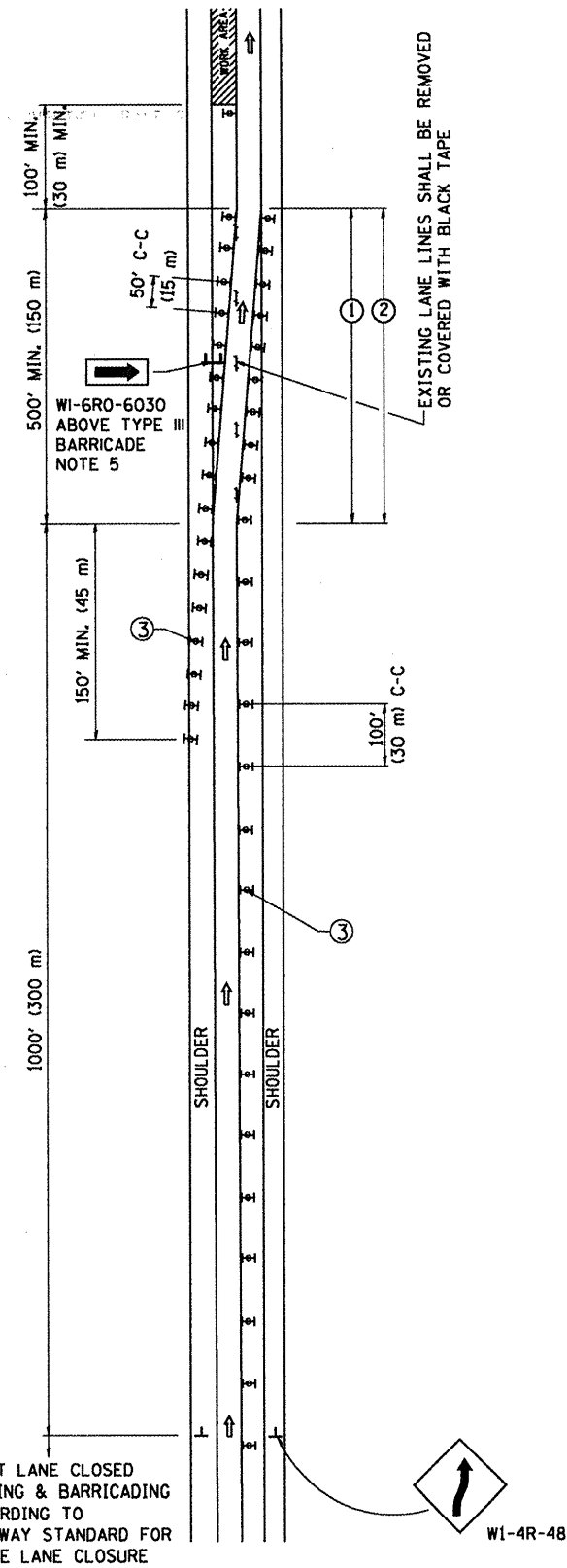
DETAIL FOR REQUIRED BARRICADES & SIGNS

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

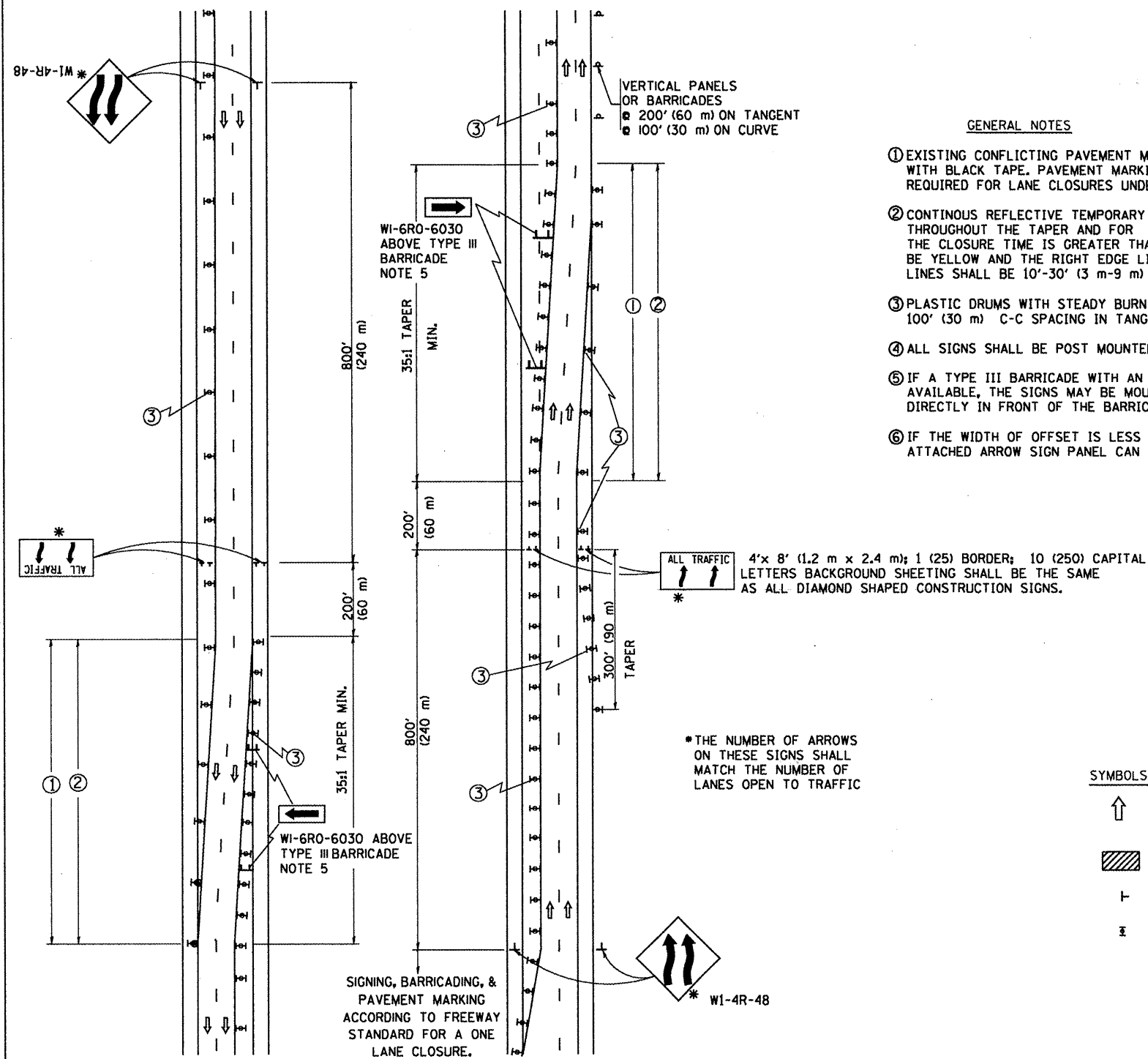
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME = W:\dissatd\22x34\1\088.dgn	USER NAME = geglionobt	DESIGNED - DWS	REVISED - DWS 12-94	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>FREEWAY ENTRANCE AND EXIST RAMP CLOSURE DETAILS</b>			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN -	REVISED - DWS/JAF 12-02		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	2003-05-06	CODY	38	37	
		PLOT SCALE = 50,000' / IN.	REVISOR - JAF 02-06						TC-08				
		PLOT DATE = 1/4/2008	REVISOR - SPB 01-07						FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		CONTRACT NO. 60F02

# SINGLE LANE WEAVE



# MULTI-LANE WEAVE



### GENERAL NOTES

- 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.
- 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.
- 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 DIRECTLY IN FRONT OF THE BARRICADE.
- 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

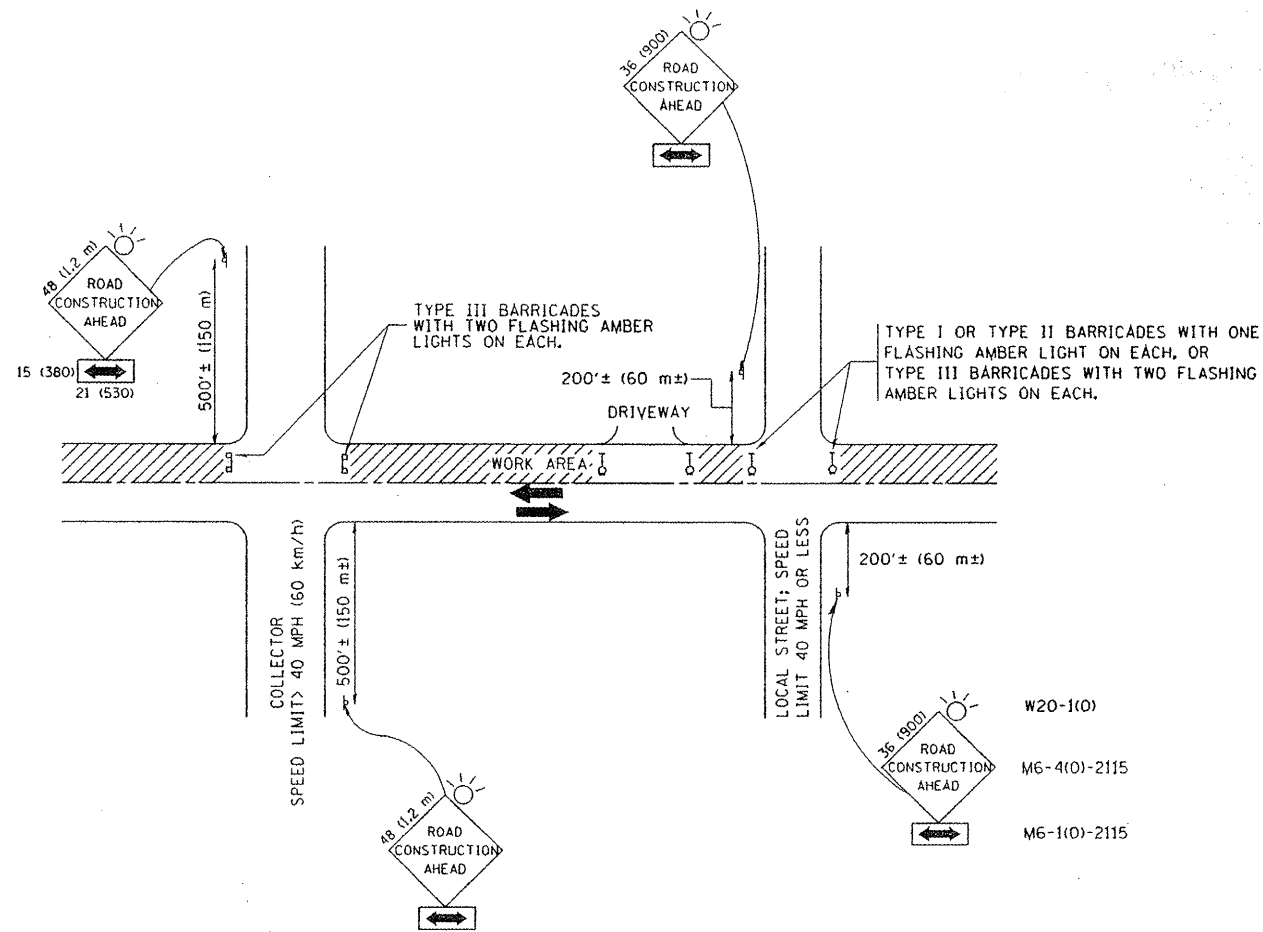
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USER NAME = goglienobt	DESIGNED - DWS	REVISED - DWS 11-96
	DRAWN -	REVISED - JAF 01-03
PLOT SCALE = 58.888' / IN.	CHECKED -	REVISED - JAF 02-06
PLOT DATE = 1/4/2008	DATE - 02-87	REVISED - SPB 01-07

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL DETAILS FOR FREEWAY SINGLE & MULTI-LANE WEAVE			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2009-051 BR	COOK	38	37A
TC-09		CONTRACT NO. 06F02		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



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 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
      - a) ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) 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 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
      - a) ONE ROAD CONSTRUCTION AHEAD SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) 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. 701501, 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.

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

FILE NAME = V:\datatd\22x34\1010.dgn	USER NAME = geglionabt	DESIGNED - LHA	REVISED - J. OBERLE 10-18-95
		DRAWN -	REVISED - A. HOUSEH 03-06-96
		PLOT SCALE = 50,000' / IN.	REVISED - A. HOUSEH 10-15-96
		PLOT DATE = 1/4/2008	REVISED - T. RAMMACHER 01-06-00
		DATE - 06-89	

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2008-051 6P	COOK	38	38
TC-10			CONTRACT NO. 60902	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				