

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	2017-026BP	COOK	*21	1
			ILLINOIS	CONTRACT NO. 62F42

\*21 + 3 = 24 total sheets

D-91-293-17



LOCATION OF SECTION INDICATED THUS: - [black rectangle] -

FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROJECT IS LOCATED IN THE CITY OF CHICAGO

PROPOSED  
HIGHWAY PLANS

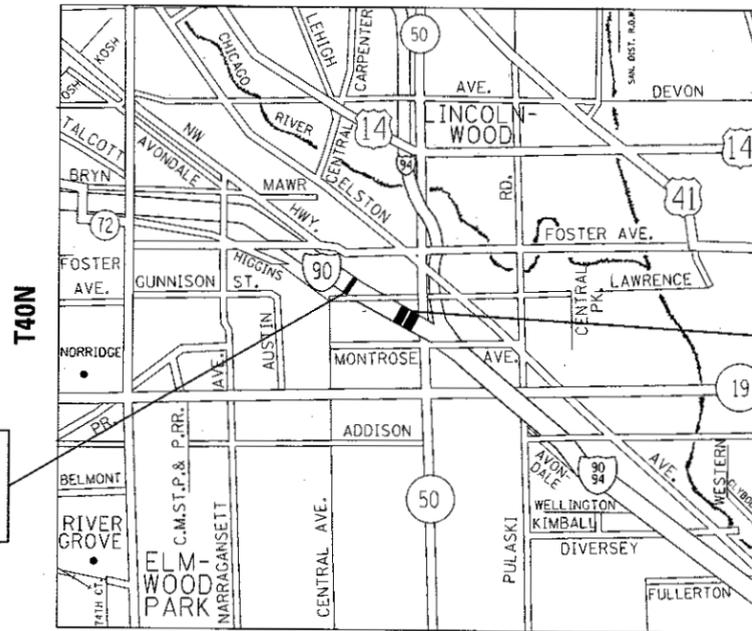
FAI ROUTE 90: I-90 (KENNEDY EXPY.)  
AT UP & METRA RR  
SECTION: 2017-026BP  
BRIDGE PAINTING  
COOK COUNTY

PROJECT NHPP-TMSR(013)  
C-91-293-17  
R13E

TRAFFIC DATA

2016 ADT = 162,600 (I-90)

POSTED SPEED LIMIT = 55 MPH (I-90)



IMPROVEMENT LOCATION 1:  
I-90 AT UP RR  
SN: 016-0515

IMPROVEMENT LOCATION 2 & 3:  
2) I-90 AT METRA RR  
SN: 016-0516  
3) I-90 AT UP & METRA RR  
SN: 016-0517

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

PROJECT ENGINEER: J. ALAIN MIDY (847) 221-3056  
PROJECT MANAGER: ISSAM RAYYAN (847) 705-4178

CONTRACT NO. 62F42

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
SUBMITTED August 15 2017  
Anthony J. Quigley / R13 REGIONAL ENGINEER  
Oct 13 2017  
Maureen M. Addis Perle ENGINEER OF DESIGN AND ENVIRONMENT  
Oct 13 2017  
DIRECTOR OF PROGRAM DEVELOPMENT

PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS

REV

**INDEX OF SHEETS**

1. TITLE SHEET
2. INDEX OF SHEETS, STATE STANDARDS, GENERAL NOTES AND GENERAL PAINT NOTES
3. SUMMARY OF QUANTITIES
- 4-7. EXISTING BRIDGE PLANS (SN 016-0515)
- 8-11. EXISTING BRIDGE PLANS (SN 016-0516)
- \* 12-17. EXISTING BRIDGE PLANS (SN 016-0517)
18. ENTRANCE AND EXIT RAMP CLOSURE DETAILS (TC-08)
19. SINGLE AND MULTI-LANE WEAVE (TC-09)
20. TRAFFIC CONTROL FOR SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES (TC-17)
21. FREEWAY/EXPRESSWAY SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS ON FREEWAYS/EXPRESSWAYS (TC-18)

\* includes 13A-13C

**STATE STANDARDS**

STANDARD NO.	DESCRIPTION
701400-09	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-10	LANE CLOSURE, FREEWAY/EXPRESSWAY
701411-09	LANE CLOSURE, MULTILANE, AT ENTRANCES OR EXIT RAMP, FOR SPEEDS >= 45 MPH
701428-01	TRAFFIC CONTROL SETUP AND REMOVAL FREEWAY/EXPRESSWAY
701446-08	TWO LANE CLOSURE, FREEWAY/EXPRESSWAY
701901-06	TRAFFIC CONTROL DEVICES

**GENERAL NOTES**

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

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, AND THE CITY OF CHICAGO.

PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING PLANS ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN SCOPE OF THE WORK, HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED BASED AT THE UNIT PRICE BID FOR THE WORK.

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) 705-4151 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROTECT AND MAINTAIN THE EXISTING BRIDGE LIGHTING AT ANY LOCATIONS THAT LIGHTING IS ENCOUNTERED ADJACENT TO AN AREA TO BE CLEANED AND PAINTED.

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

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

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

DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.

**GENERAL PAINT NOTES**

SN 016-0515 & SN 016-0516

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

ALL BEAMS, BEARINGS AND OTHER STRUCTURAL STEEL SHALL BE CLEANED PER NEAR WHITE BLAST CLEANING - SSPC-SP10. THESE AREAS SHALL BE PAINTED ACCORDING TO THE REQUIREMENTS OF PAINT SYSTEM 1 -02/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 OUTSIDE OF THE FASCIA BEAMS SHOULD BE CLEANED AND PAINTED.

A MINIMUM OF TWO (2) AIR MONITORS AT EACH LOCATION WILL BE REQUIRED TO MONITOR ABRASIVE BLASTING OPERATIONS. SEE SPECIAL PROVISIONS FOR "CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES."

SN 016-0517

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

ALL EXISTING STRUCTURAL STEEL WITHIN 4 FT. (MEASURED FROM THE BOTTOM FLANGE) SHALL BE CLEANED PER NEAR WHITE BLAST CLEANING - SSPC-SP10.

ALL EXTERIOR STEEL SURFACES, TOP AND BOTTOM OF THE BOTTOM FLANGE OF THE FASCIA BEAMS SHALL BE CLEANED PER NEAR WHITE BLAST CLEANING - SSPC-SP10.

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

THESE AREAS SHALL BE PAINTED ACCORDING TO THE REQUIREMENTS OF PAINT SYSTEM 1 -02/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.

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FILE NAME =	USER NAME = diaz	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>INDEX OF SHEETS, STATE STANDARDS, GENERAL NOTES AND GENERAL PAINT NOTES</b>	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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Default	PLOT SCALE = 100.0000' / 1"	DATE -	REVISED -			CONTRACT NO. 62F42				
	PLOT DATE = 8/22/2017					SCALE:	SHEET 1	OF 1	SHEETS	STA.

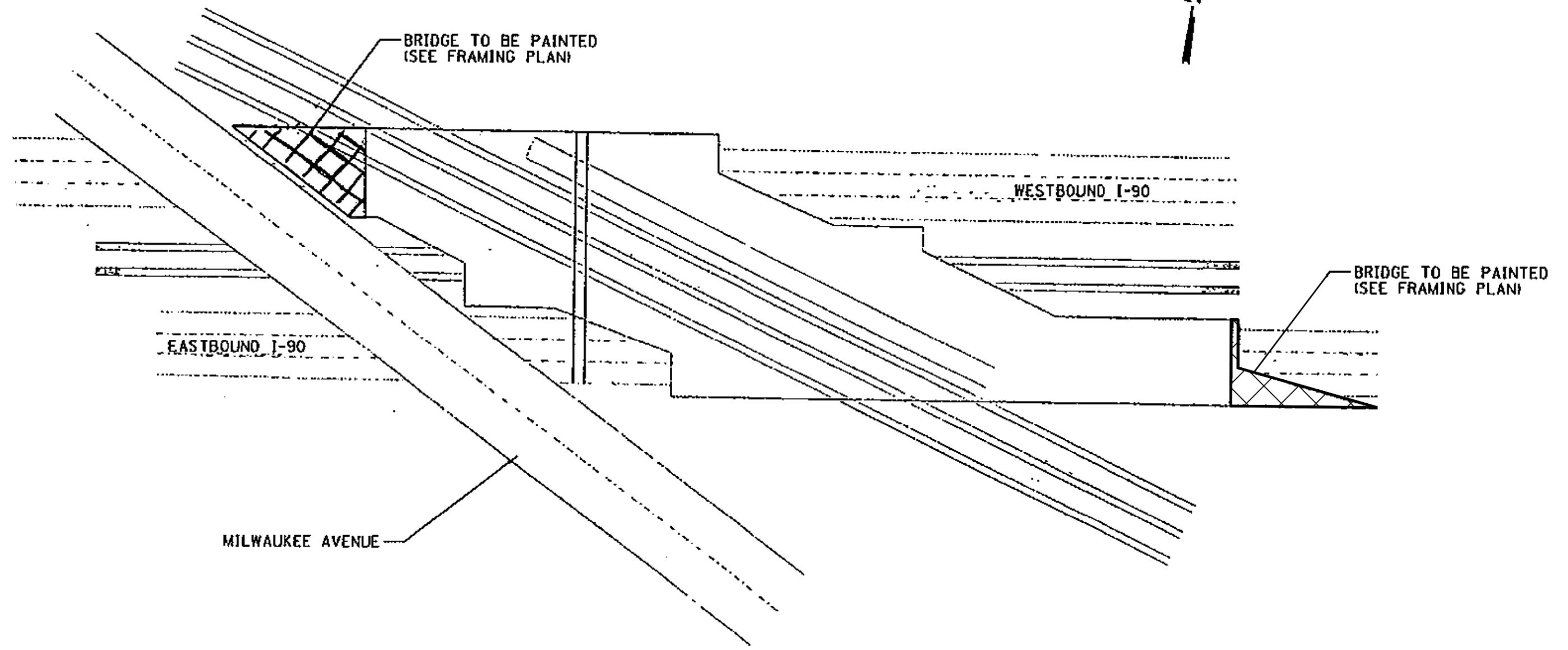
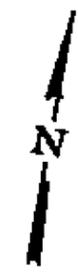
REV

URBAN 90/10 (FED/STATE) 0044

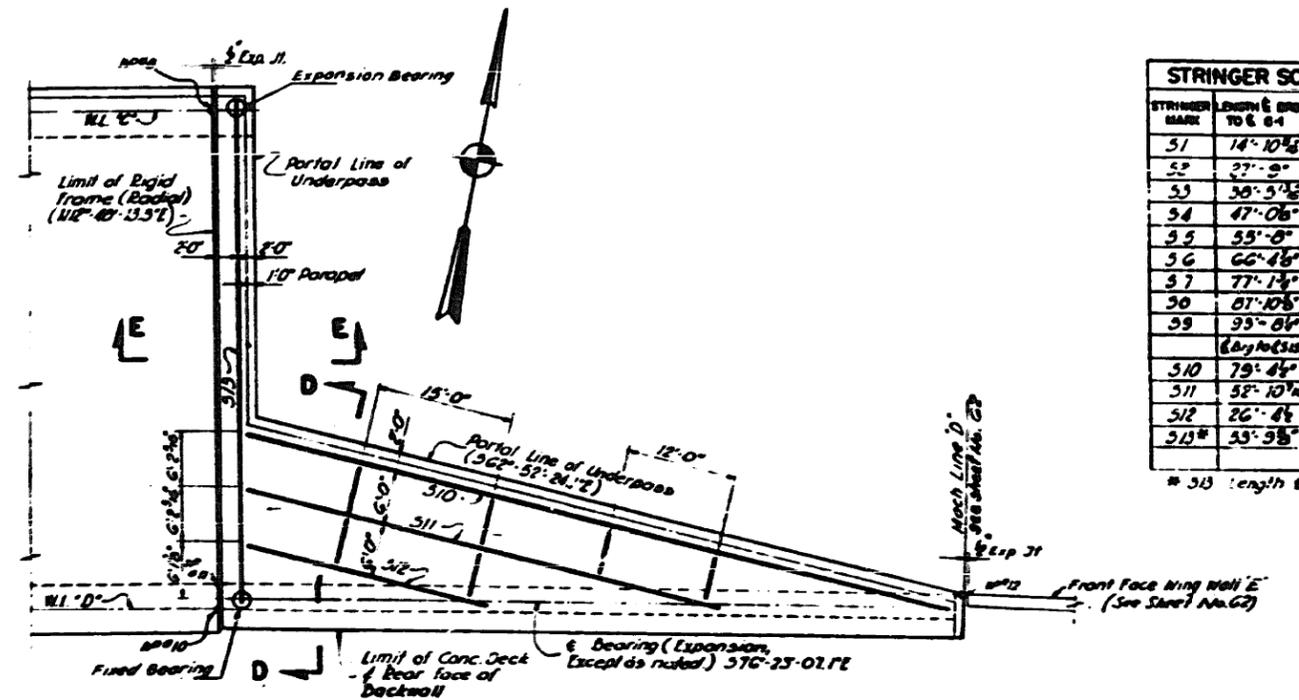
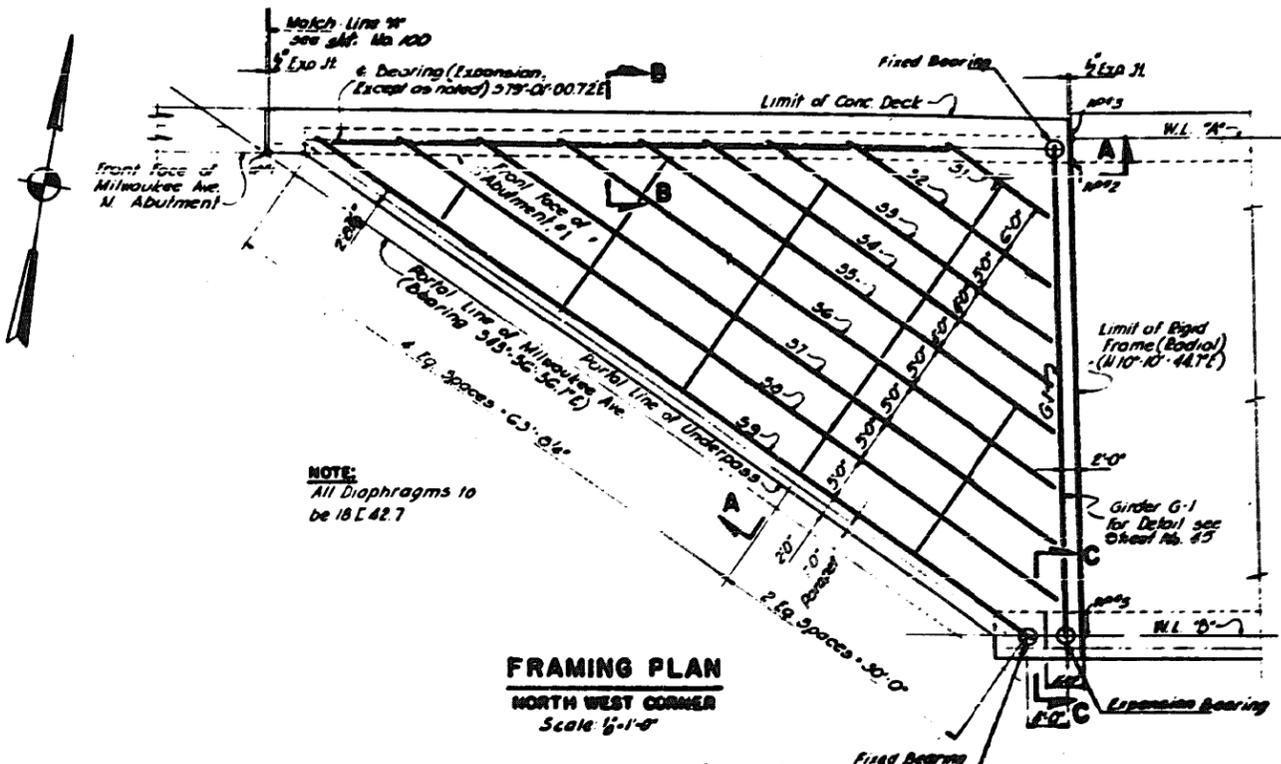
SUMMARY OF QUANTITIES				CONSTRUCTION TYPE CODE				SUMMARY OF QUANTITIES				CONSTRUCTION TYPE CODE			
CODE NO	ITEM	UNIT	TOTAL QUANTITIES					CODE NO	ITEM	UNIT	TOTAL QUANTITIES				
				016-0515	016-0516	016-0517									
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	2	2	2									
67100100	MOBILIZATION	LSUM	1	0.34	0.33	0.33									
70200100	NIGHTTIME WORK ZONE LIGHTING	LSUM	1	0.34	0.33	0.33									
X7011015	TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)	LSUM	1	0.34	0.33	0.33									
Z0007112	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES	LSUM	1	0.34	0.33	0.33									
Z0010501	CLEANING AND PAINTING STEEL BRIDGE NO. 1	LSUM	1	1											
Z0010502	CLEANING AND PAINTING STEEL BRIDGE NO. 2	LSUM	1		1										
Z0010503	CLEANING AND PAINTING STEEL BRIDGE NO. 3	LSUM	1			1									
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	LSUM	1	0	0.5	0.5									

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FOR INFORMATION ONLY

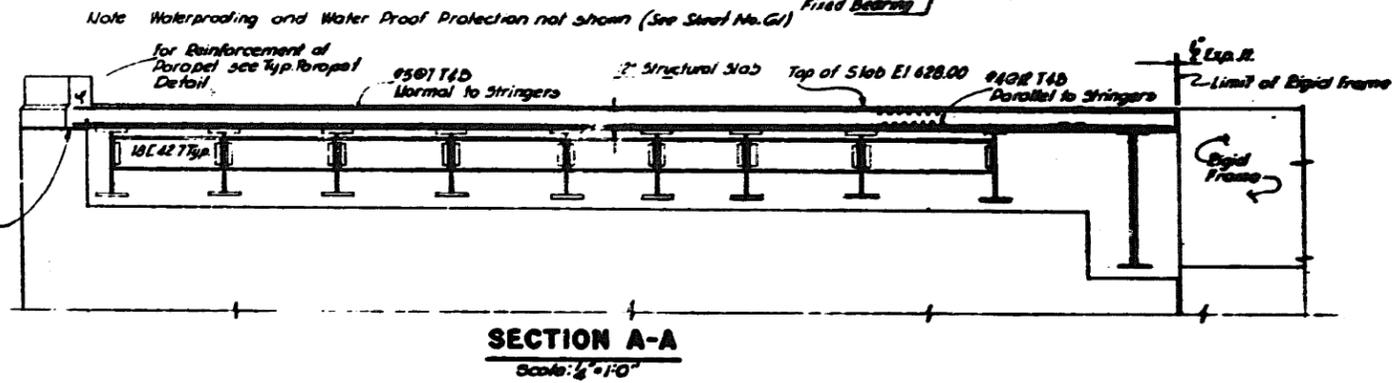


FILE NAME =	USER NAME = diazo	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>LOC. 1) SN 016-0515 I-90 (KENNEDY EXPY.) AT UP RR &amp; PEDWAY</b>	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw\11084EBIDINTEG.illinois.gov\PIWIDOT\Documents\IDOT Offices\District 1\Projects\DI29317\Drawings\Design\DI29317-sh1-plan.dgn		CHECKED -	REVISED -			90	2017-026BP	COOK	21	4
Default	PLOT SCALE = 100.0000' / in.	DATE -	REVISED -			CONTRACT NO. 62F42			ILLINOIS FED. AID PROJECT	
	PLOT DATE = 8/22/2017					SCALE:	SHEET 1	OF 4	SHEETS	STA.

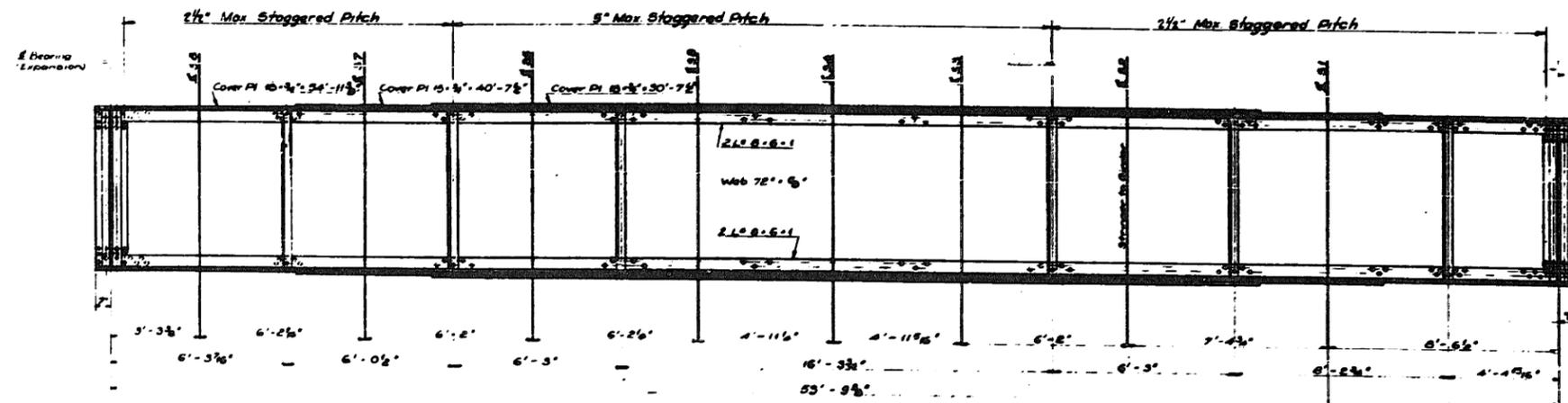


STRINGER MARK	LENGTH FROM TO E 64	SIZE
S1	14'-10 1/2"	36 WF 260
S2	27'-9"	36 WF 260
S3	30'-5 1/2"	36 WF 300
S4	47'-0 1/2"	36 WF 300
S5	55'-8"	36 WF 300
S6	66'-1 1/2"	36 WF 260
S7	77'-1 1/2"	36 WF 260
S8	87'-10 1/2"	36 WF 260
S9	93'-8 1/2"	36 WF 300
60' x 60' (S10)		
S10	79'-8 1/2"	36 WF 230
S11	52'-10 1/2"	30 WF 180
S12	26'-8 1/2"	24 WF 100
S13*	53'-9 1/2"	36 WF 300

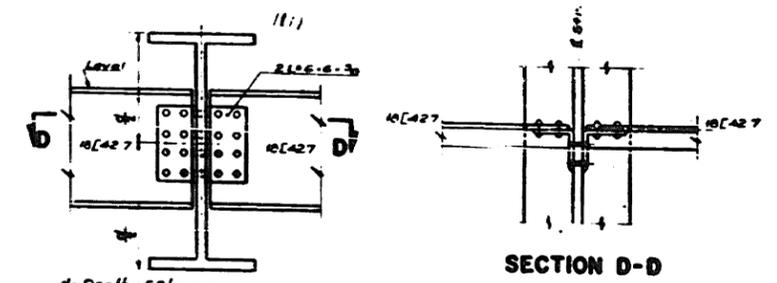
\* S13 Length & Drg. to & Drg.



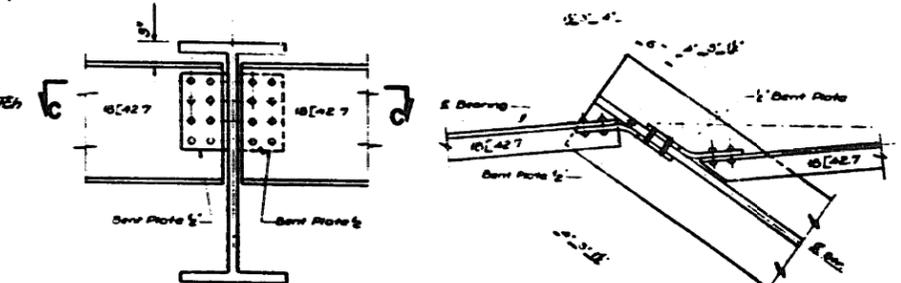
FOR INFORMATION ONLY



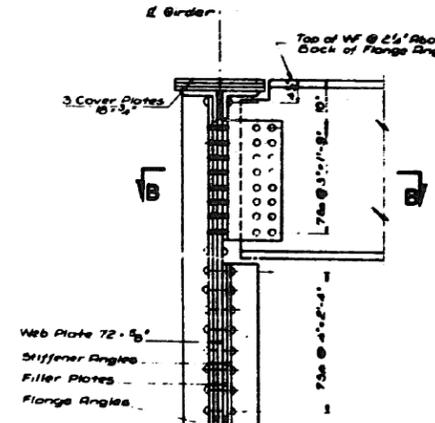
ELEVATION OF PLATE GIRDER G-1  
Scale: 3/8" = 1'-0"



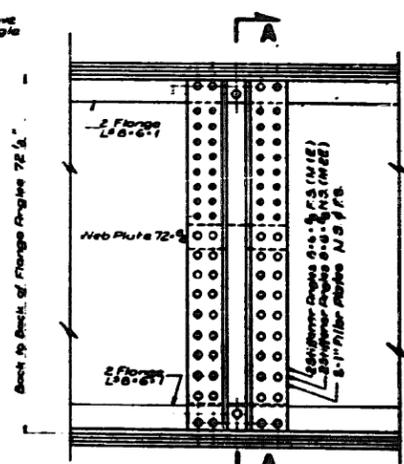
SECTION D-D  
TYPICAL INTERMEDIATE DIAPHRAGM CONN.  
Scale: 1" = 1'-0"



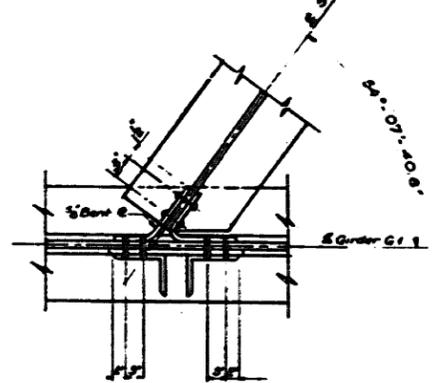
SECTION C-C  
TYPICAL END DIAPHRAGM CONN. (FOR NORTHWEST CORNER)  
Scale: 1" = 1'-0"



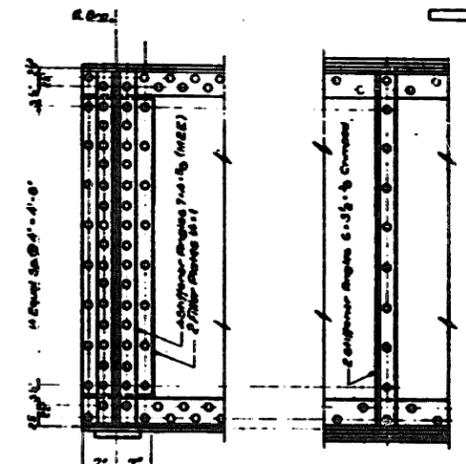
SECTION A-A  
Scale: 3/8" = 1'-0"



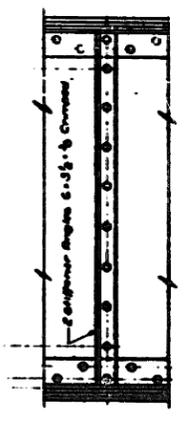
SECTION B-B  
Scale: 3/8" = 1'-0"



SECTION B-B  
Scale: 1" = 1'-0"



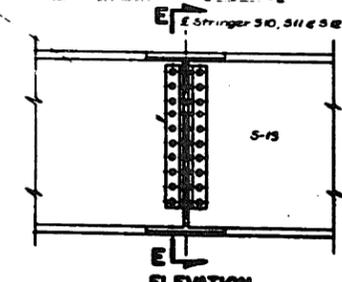
ELEVATION TYP. END BEARING STIFFENER  
Scale: 3/8" = 1'-0"



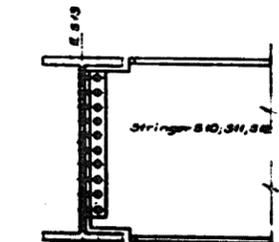
ELEVATION TYP. INTERMEDIATE STIFFENER  
Scale: 3/8" = 1'-0"

TYP. STRINGER TO GIRDER CONN. DETAILS

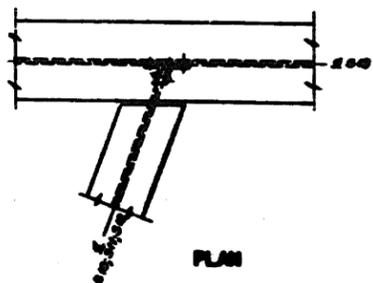
For 36 W (10 Rivets) use 2L 4 x 3 1/2 x 3/8 = 2'-5"  
For 30 W (8 Rivets) use 2L 4 x 3 1/2 x 3/8 = 1'-11"  
For 24 W (6 Rivets) use 2L 4 x 3 1/2 x 3/8 = 1'-5"



SECTION E-E  
Scale: 3/8" = 1'-0"



SECTION E-E  
Scale: 3/8" = 1'-0"

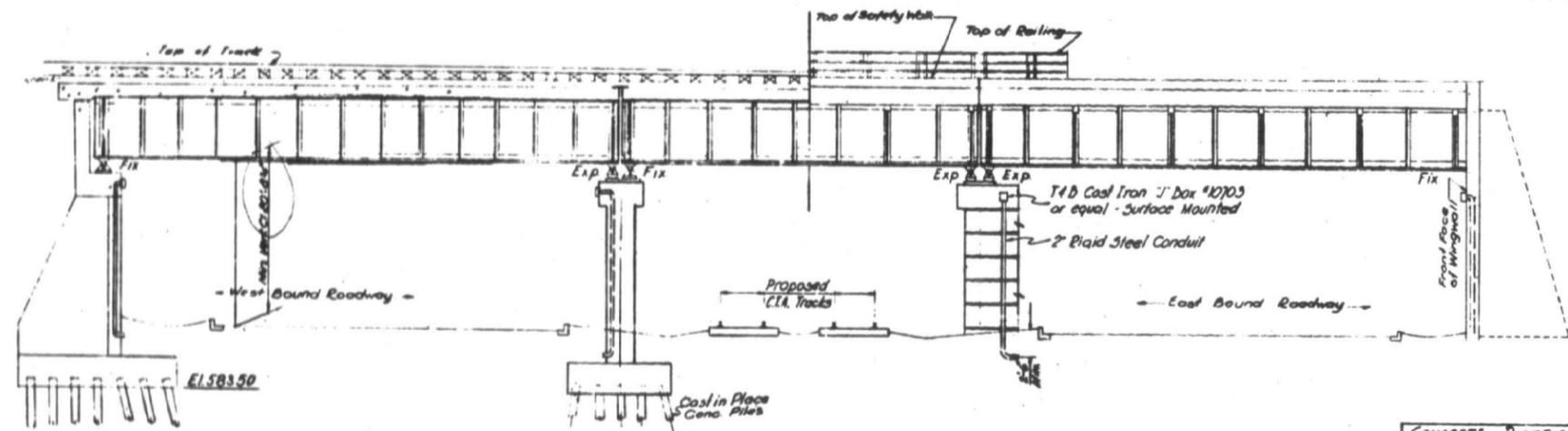
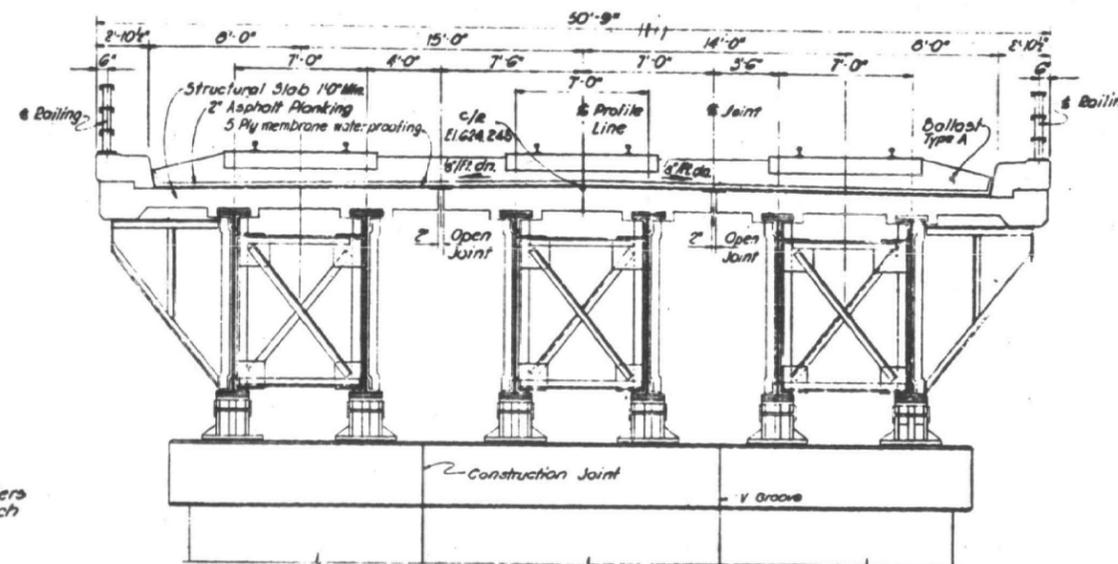
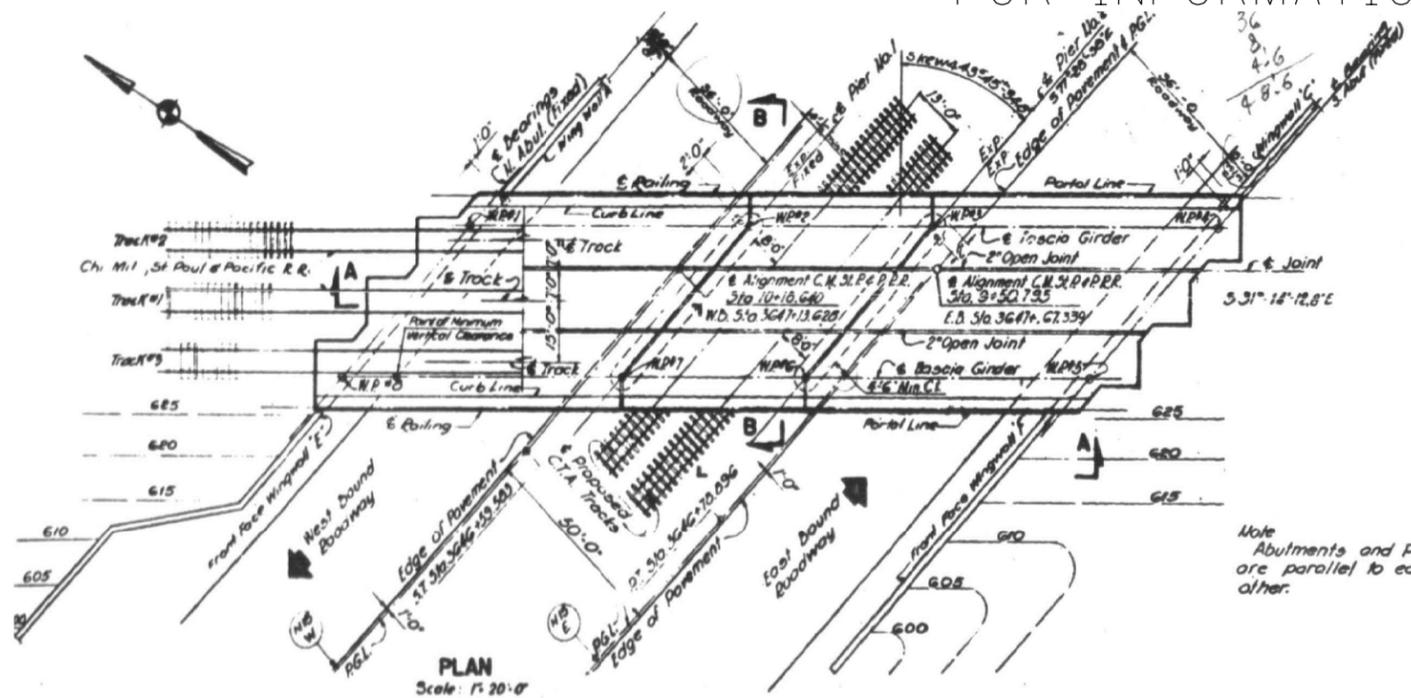


PLAN

TYP. STRINGER CONN. DETAIL (FOR SOUTHEAST CORNER)  
Scale: 3/8" = 1'-0"

- NOTES:
1. For General Notes see sheet No. 42
  2. All rivets to be 7/8"
  3. Structural steel to be detailed in accordance with A.R.E.A. Spec. 1956
  4. For Steel Details See Sheet No. 46

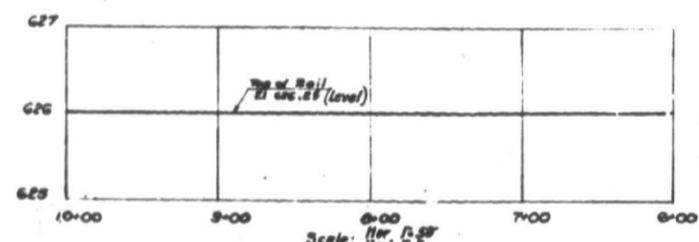
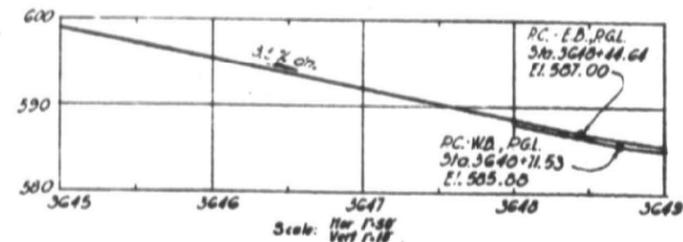




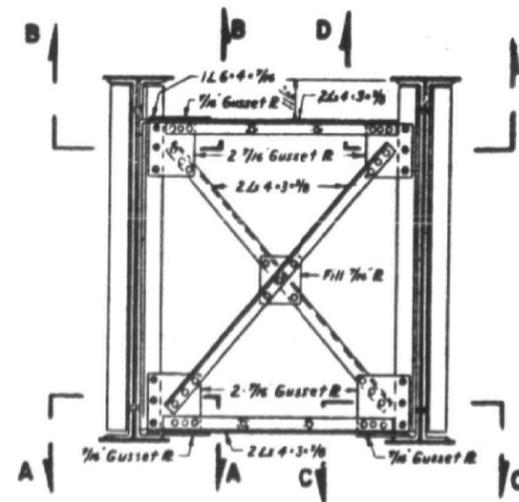
GENERAL NOTES:  
10) Surfaces of Concrete Walls, Piers, and Abutments exposed to public view after completion should be given a rubbed finish according to Art. 5214 (a) of the Standard Specifications. Structural Steel not in contact or in contact with concrete shall be given one shop coat of Red Lead and oil paint by the steel fabricator and two coats of Aluminum paint by the Contractor.  
11) Piles to be terminated into a strata where the unconfined compressive strength of the clay is 55 tons per square foot.

LOCATION	Footings CY	Walls CY	Superstr. CY
S. Abutment	415	530	
N. Abutment	370	420	
Pier #1	200	240	
Pier #2	200	260	
Slab			540
Wingwall E	230	265	
Wingwall F	220	280	
Total	1,635	1,995	540

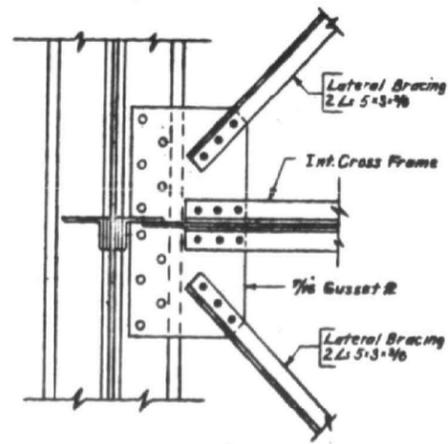
- GENERAL NOTES:
- 1) Design Specifications: A.R.A. Specifications 1966
  - 2) Loading: Cooper E 79
  - 3) Superstructure: Ballasted concrete slab on simply supported plate girders. All girders, brackets etc. to be in accordance to ASTM-A7 Structural Carbon Steel
  - 4) Concrete for Deck Slab, Abutments, & Piers to have a compressive strength at the end of 90 days of 3500 p.s.i.
  - 5) Reinforcing steel for concrete designed for a tensile strength of 18,000 p.s.i.
  - 6) Concrete Design Stresses:  
Concrete without earth pressure 1200 p.s.i.  
Concrete with earth pressure 800 p.s.i.
  - 7) Earth Pressure: 100 lbs per sq. ft. fluid
  - 8) Pile Capacity: 50 tons per pile  
For details of concrete piles, see sheet #104
  - 9) For Location & Log of Borings see sheet #4445



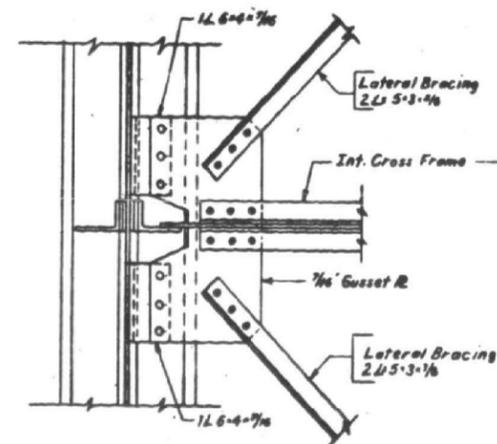
Waterproofing:  
Banks of concrete structure resting against earth fill shall be waterproofed from 12" below top of backfill to top of footing, to conform to Art. 5180 of the Standard Specifications.



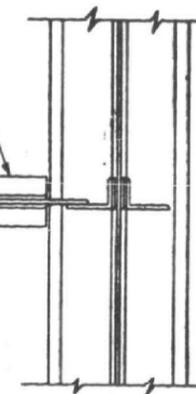
**TYPICAL INT. CROSS FRAME**  
Scale: 1/2"=1'-0"



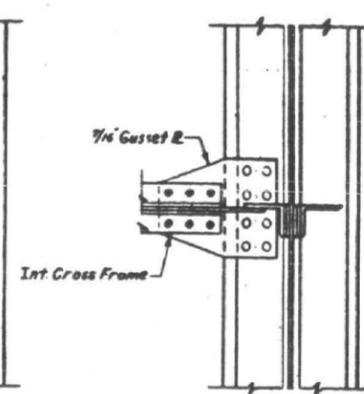
**SECTION A-A**  
Scale: 1"=1'-0"



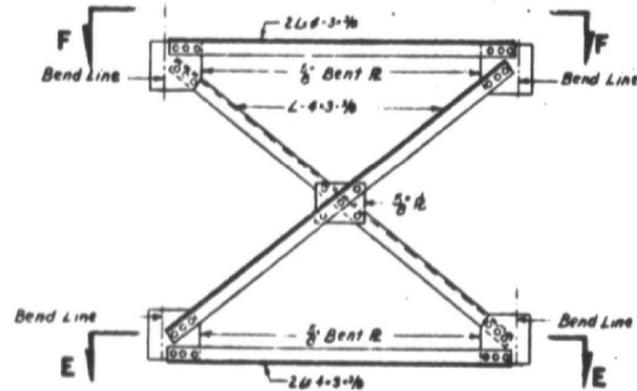
**SECTION B-B**  
Scale: 1"=1'-0"



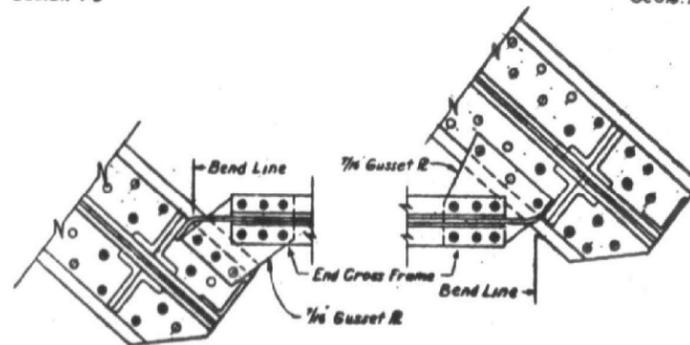
**SECTION D-D**  
Scale: 1"=1'-0"



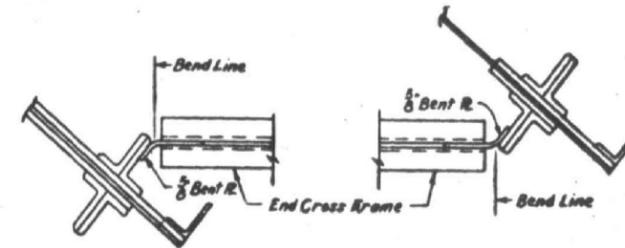
**SECTION C-C**  
Scale: 1"=1'-0"



**TYPICAL END CROSS FRAME**  
Scale: 1/2"=1'-0"

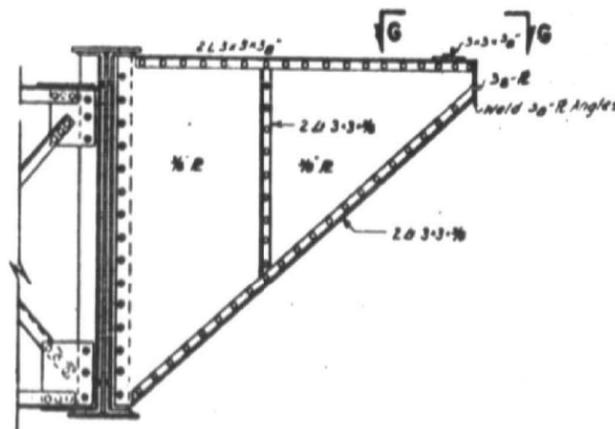


**SECTION E-E**  
Scale: 1"=1'-0"

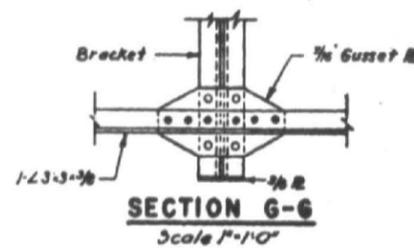


**SECTION F-F**  
Scale: 1"=1'-0"

**NOTES:**  
1. All rivets to be 3/4"  
2. For typical girders see sheet nos 92, 93, 94 & 95



**TYPICAL BRACKET**  
Scale: 1/2"=1'-0"



**SECTION G-G**  
Scale: 1"=1'-0"

FILE NAME =	USER NAME = diazo	DESIGNED -	REVISED -
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Default	PLOT DATE = 8/22/2017	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

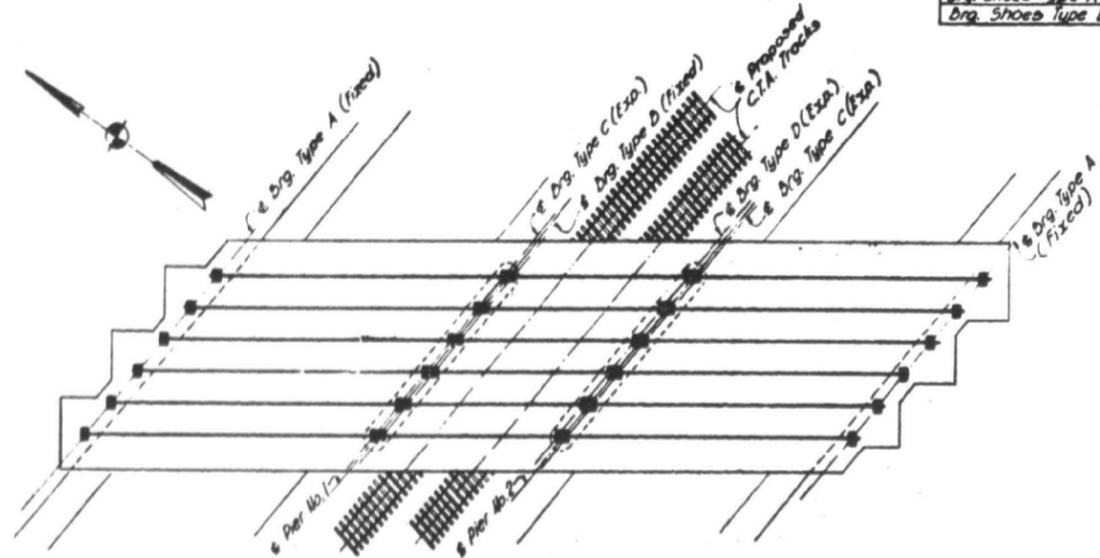
LOC. 2) SN 016-0516  
I-90 (KENNEDY EXPY.) AT METRA RR

SCALE: SHEET 2 OF 4 SHEETS STA. TO STA.

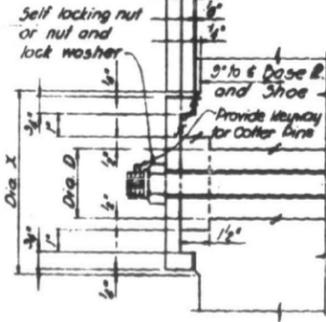
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	2017-026BP	COOK	21	9
CONTRACT NO. 62F42				
ILLINOIS FED. AID PROJECT				

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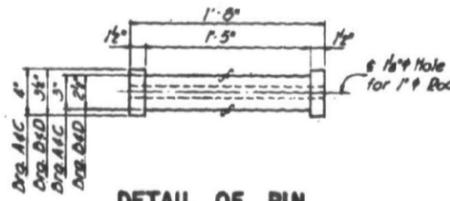
Shoe Types	Dr. D	Dr. X
Dr. Shoes Type A & C	3"	8"
Dr. Shoes Type B & D	2 1/2"	7 1/2"



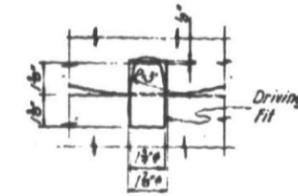
**KEY PLAN**  
SHOWING LOCATION OF BEARING SHOES  
Scale 1" = 20"



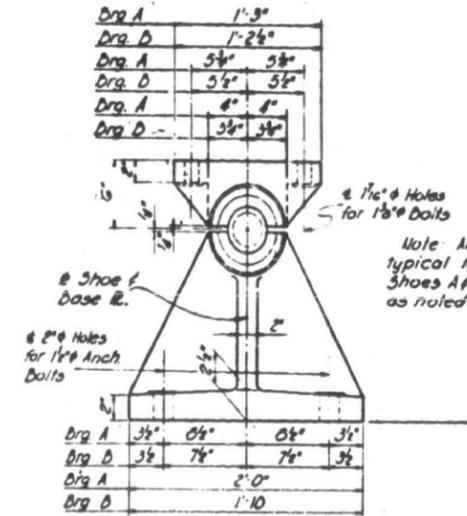
**DETAIL OF PIN CAPS**  
Scale 3" = 1'-0"



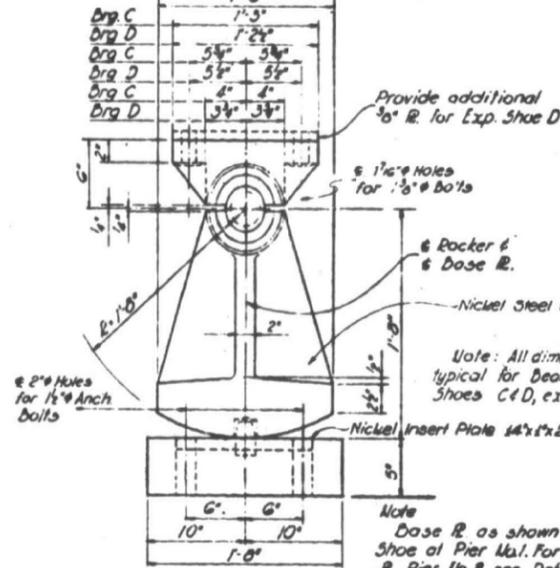
**DETAIL OF PIN**  
Scale 1/4" = 1'-0"



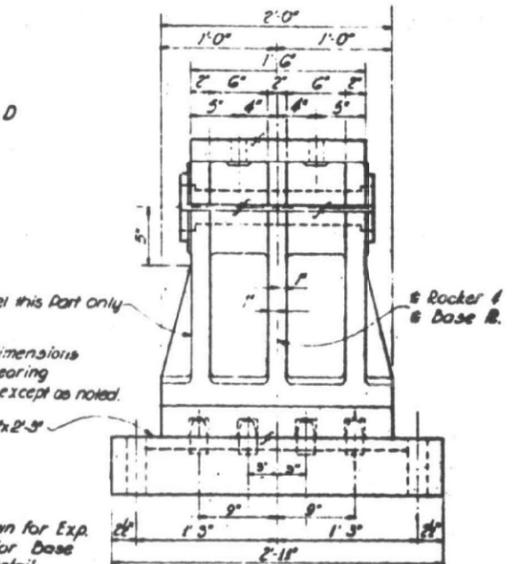
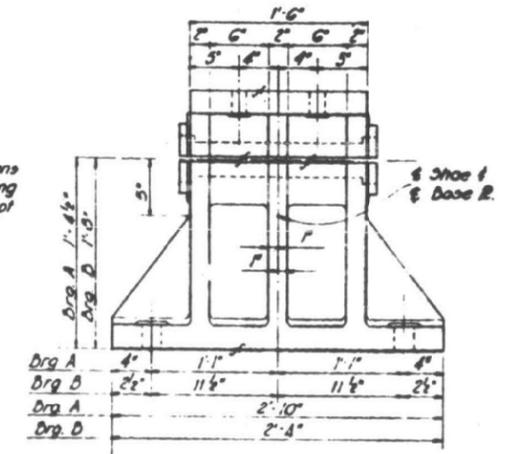
**DETAIL OF PINTLES**  
Scale 3" = 1'-0"



**DETAILS OF FIXED BEARINGS**  
Scale 1/2" = 1'-0"



**DETAILS OF EXPANSION BEARINGS**  
Scale 1/2" = 1'-0"

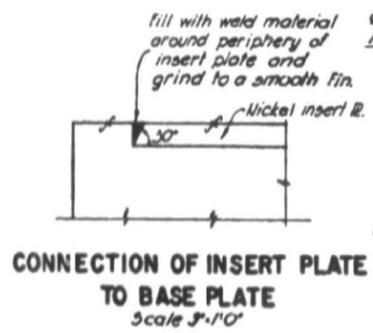


**PIN BEARING PRESSURES**

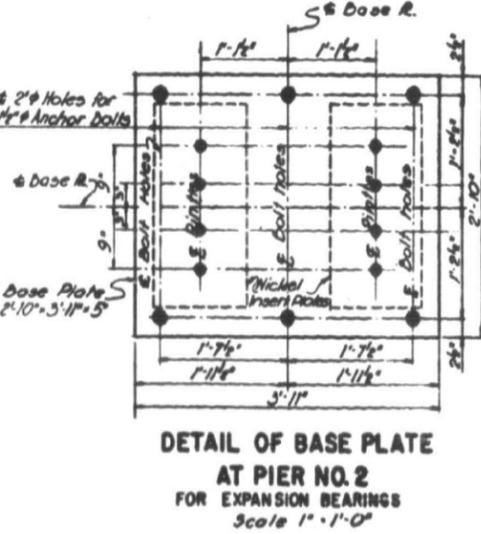
LOCATION	TYPE OF BEARING	DIAMETER OF PIN (P.S.I.)	PIN BEARING PRESSURE (P.S.I.)	ALLOW. BRG. PRESS. (P.S.I.)
Abut.	Fixed	3"	9.63	12.00
	Exp.	3"	9.63	.
Pier 1	Fixed	2 1/2"	0.70	.
	Exp.	2 1/2"	0.70	.
Pier 2	Fixed	3"	9.63	12.00
	Exp.	3"	9.63	12.00

**BASE PLATE BEARING PRESSURES**

LOCATION	TYPE OF BEARING	AREA OF BEARING (SQ. FT.)	BEARING PRESSURE (P.S.I.)	ALLOW. BRG. PRESS. (P.S.I.)
Abut.	Fixed	686	635	938
	Exp.	700	745	750
Pier 1	Fixed	886	909	938
	Exp.	1800	745	750



**CONNECTION OF INSERT PLATE TO BASE PLATE**  
Scale 3" = 1'-0"

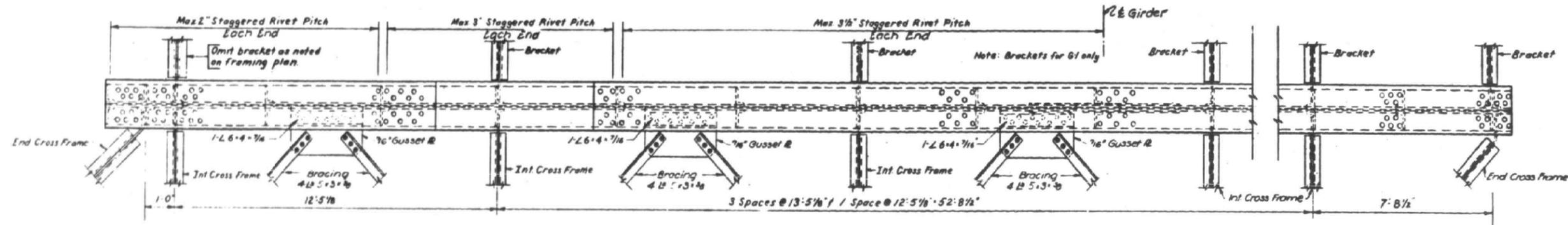


**DETAIL OF BASE PLATE AT PIER NO. 2 FOR EXPANSION BEARINGS**  
Scale 1" = 1'-0"

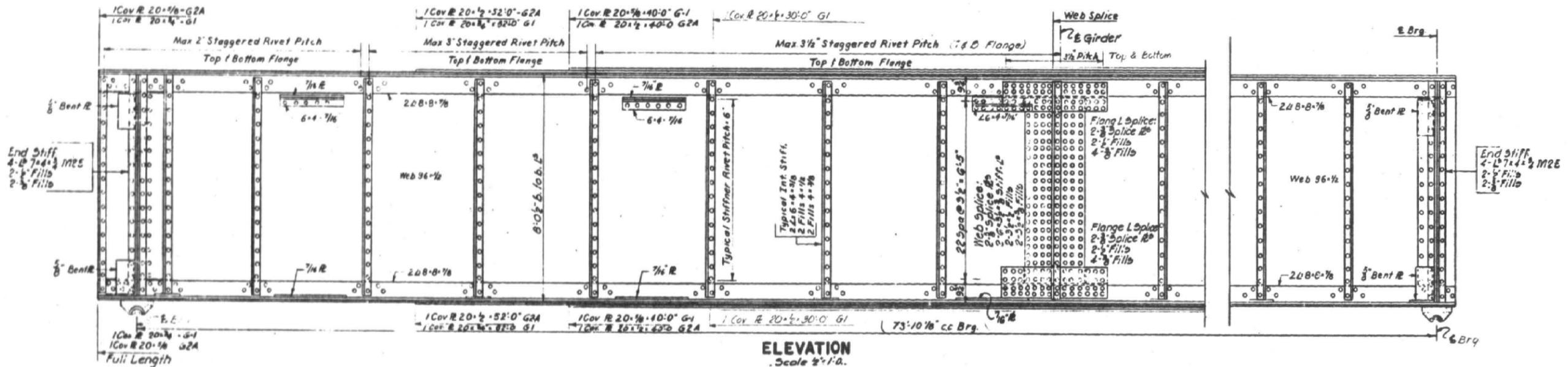
- Notes:
1. Bolt holes in castings to be drilled to metal template, banded, and spot faced. Template to be furnished to substructure contractor.
  2. Oversize holes in base R. and castings to be packed with lead or babbitt after adjustment of bearing and girder and before anchor bolts are tightened.
  3. Bearings to be shop assembled and match marked.
  4. Rockers to be checked for full bearing.
  5. Steel Castings, except as noted, shall conform to Grade 65-35 of the A.S.T.M. Specifications, Designation A27.
  6. Provide 1/4" fabrica or approved equal under all base plates.
  7. Rocker shoes for expansion bearing to be Structural Nickel Steel, and conform to the specifications for Structural Nickel Steel of the A.S.T.M. A8-46.

8. Pins shall conform to A.S.T.M. A235 Class E

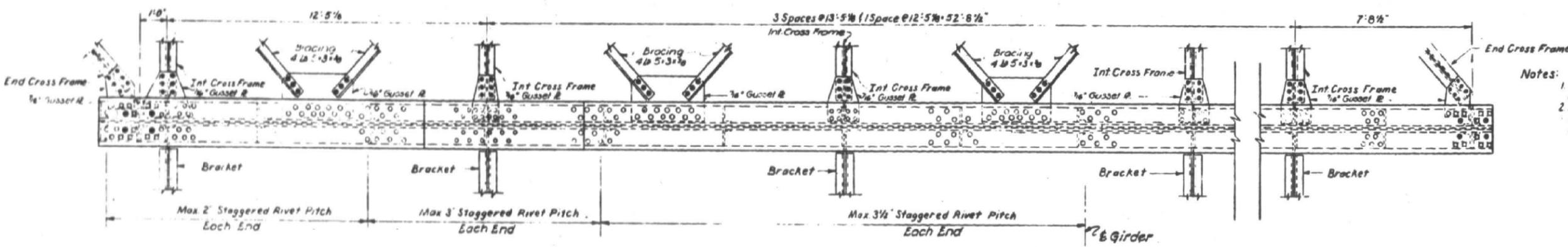
FOR INFORMATION ONLY



PLAN  
Scale 1/4"=1'-0"



ELEVATION  
Scale 1/4"=1'-0"

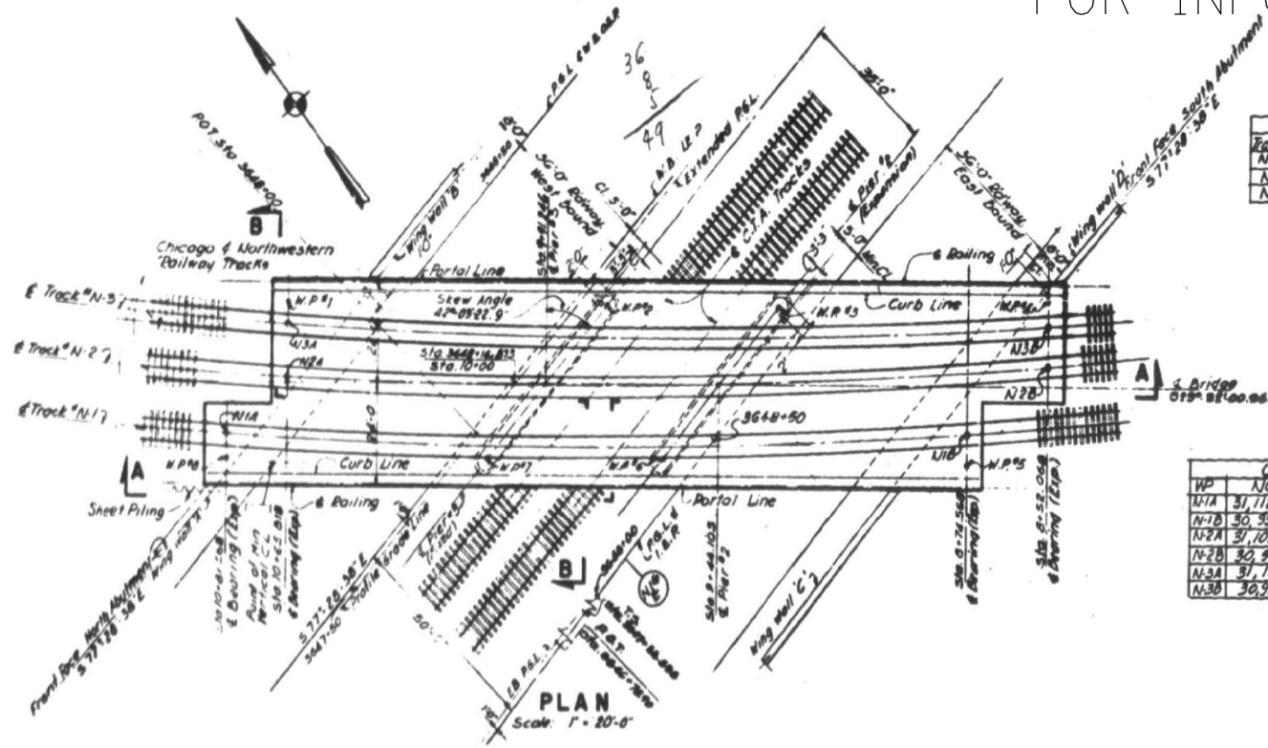


BOTTOM VIEW  
Scale 1/4"=1'-0"

- Notes:
1. Block top flange @ piers to clear concrete deck slab joints.
  2. All rivets 7/8"
  - For intermediate end cross frame details see sheet no 96

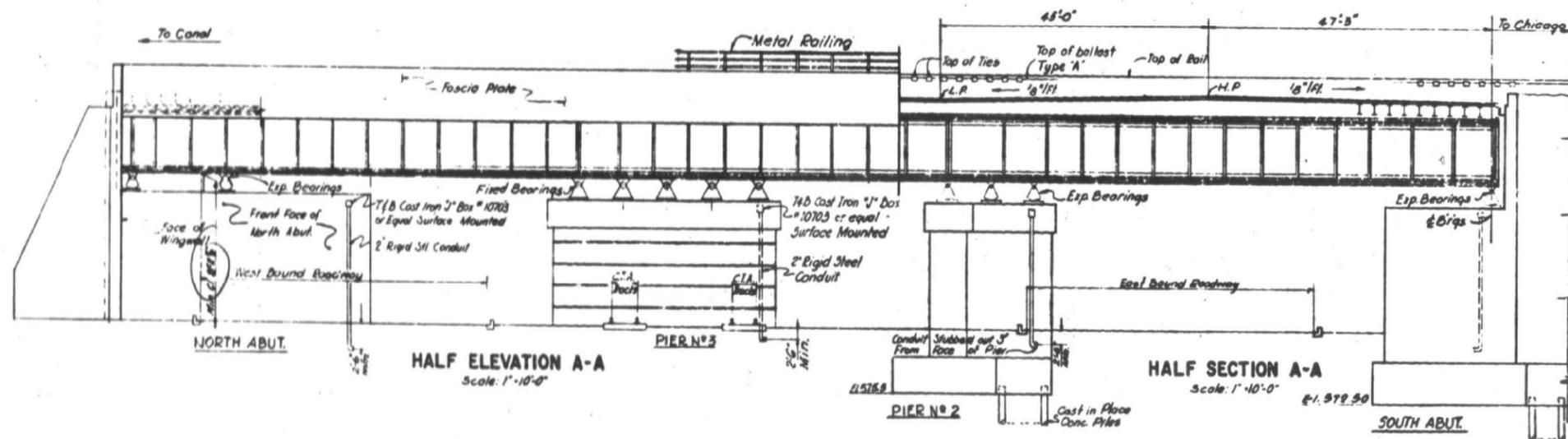
FILE NAME =	USER NAME = diazo	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LOC. 2) SN 016-0516 I-90 (KENNEDY EXPY.) AT METRA RR	F.A.I. RE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw\11084EBIDINTEG.111nois.gov\PIWIDOTDocuments\DOT Offices\District 1\Projects\DI29317\Design\DI29317-sht-pln.dgn		CHECKED -	REVISED -			90	2017-026BP	COOK	21	11
Default		DATE -	REVISED -			CONTRACT NO. 62F42				
	PLOT DATE = 8/22/2017					SCALE:	SHEET 4	OF 4	SHEETS	STA.

FOR INFORMATION ONLY

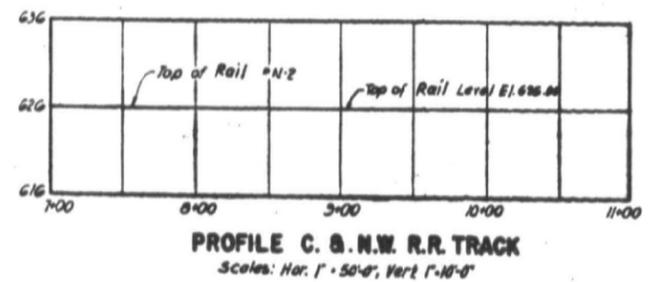
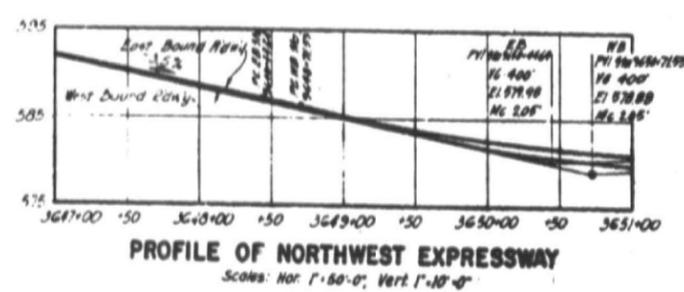


Track	Radius	D°
N-1	1902.86'	3°-00'-58.2"
N-2	1902.86'	3°-00'-58.2"
N-3	1902.86'	3°-00'-58.2"

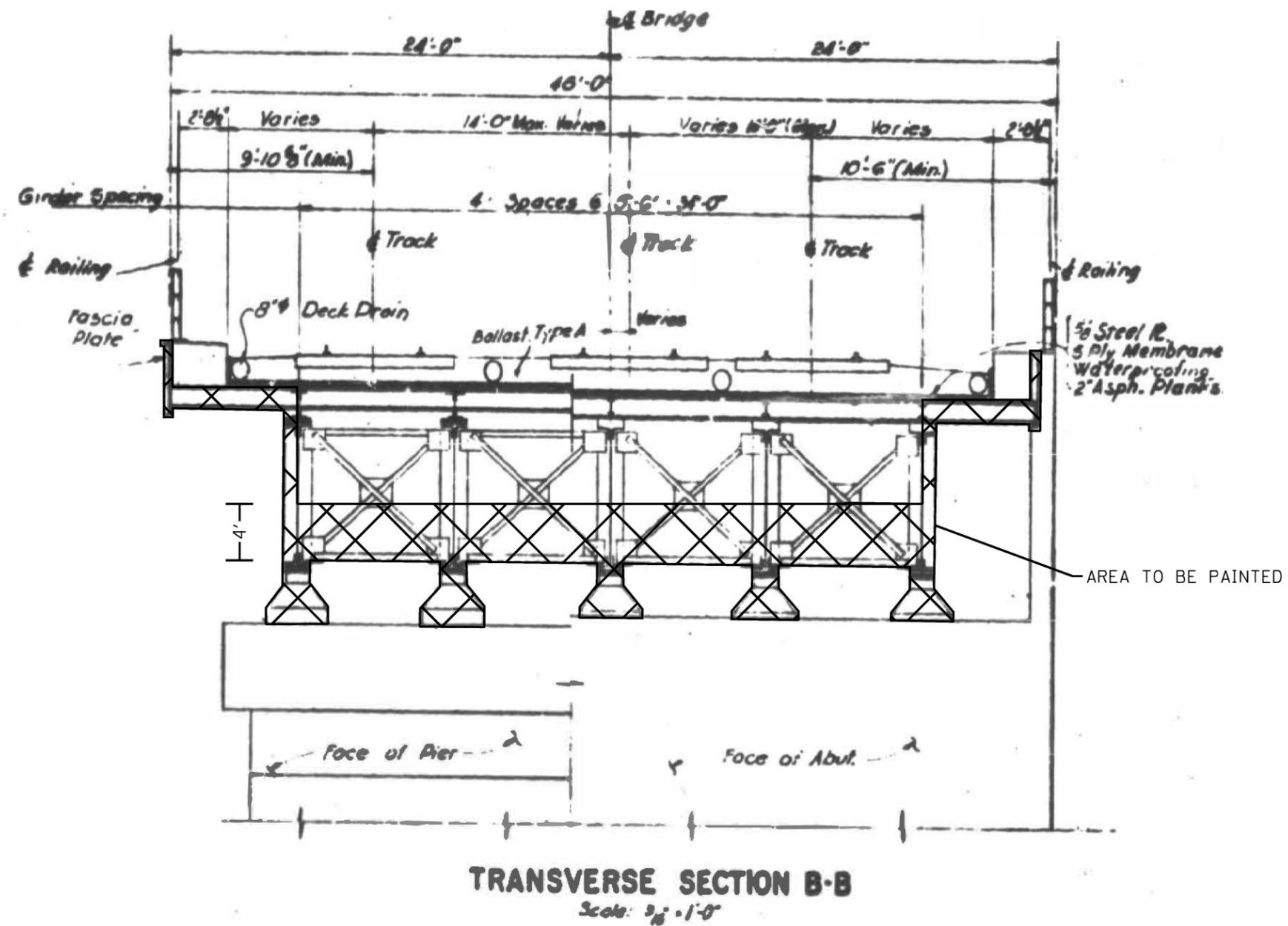
WP	NORTH	EAST
N-1A	31,712.308	56,528.248
N-1B	30,599.945	56,683.356
N-2A	31,709.195	56,567.570
N-2B	30,920.915	56,683.356
N-3A	31,711.526	56,558.462
N-3B	30,923.336	56,683.803



- GENERAL NOTES:**
- Girders designed according to A.R.I.A. Standard Specification 1956 for a Cooper E 78 Loading
  - Girders are continuous over supports, fixed at Pier No. 2
  - All girders, brackets etc. with the exception of Steel Deck to be in accordance to ASTM-A7 Structural Carbon Steel
  - Concrete for Abutments and Piers designed for a Compressive strength of the end of 28 days of 2500 P.S.I.
  - Reinforcing steel for concrete designed for a tensile strength of 18,000 P.S.I.
  - Concrete Design Stress:  $f'_c$  3500 psi  
Concrete without earth pressure 1900 psi  
Concrete with earth pressure 800 psi
  - Earth Pressure: 30 lbs per sq. ft. fluid
  - Pile Capacity: 50 tons per pile  
For details of concrete piles, see sheet 90
  - For Location & Log of Borings, see sheet 92 & 93
  - Piles to be terminated into a strata, where the unconfined compressive strength of the clay is 5.5 tons per sq. ft.
  - Steel deck to be 1/4" Mayari Steel Plate
  - For location of Quantities see Sheet 94
  - Steel Structure for the Bridge, not in contact or in contact with concrete shall be given one shop coat of red lead and oil paint by the steel fabricator and two field coats of Aluminum paint by the contractor.



**NOTE:**  
Waterproofing:  
Backs of all concrete structures resting against earth fill shall be waterproofed from 18" below top of backfill to the elevation of top of footing. See Standard Spec. Art. 51.20 & 51.28.



FILE NAME =	USER NAME = diaza	DESIGNED -	REVISED -
pw\11084EBIDINTEG.illinois.gov\PI\DOT\Documents\DOT Offices\District 1\Projects\DI29317-1\Design\DI29317-1\sh-t-plen.dgn		DRAWN -	REVISED -
Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/22/2017	DATE -	REVISED -

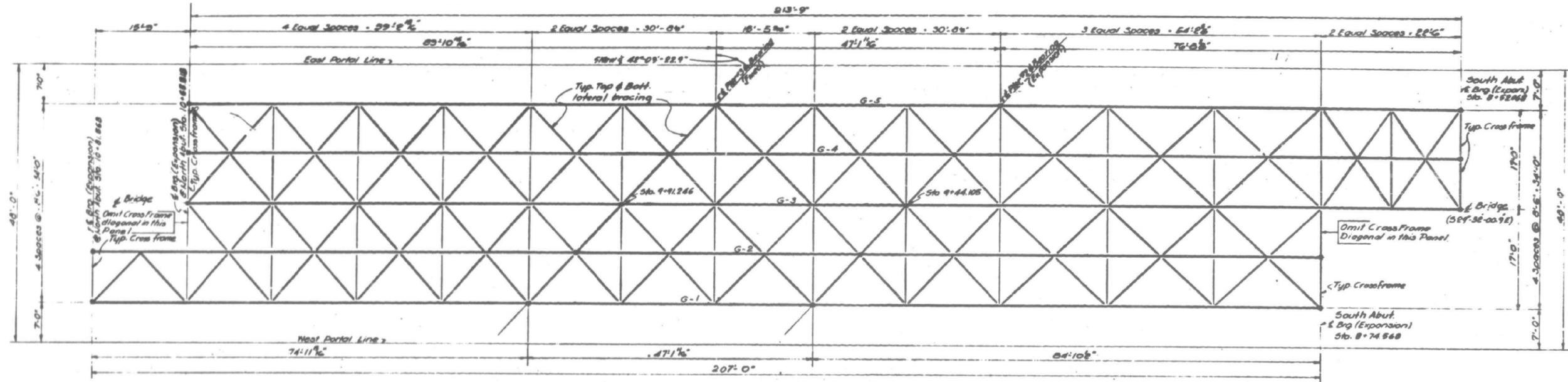
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

LOC. 3) SN 016-0517  
I-90 (KENNEDY EXPY.) AT UP & METRA RR

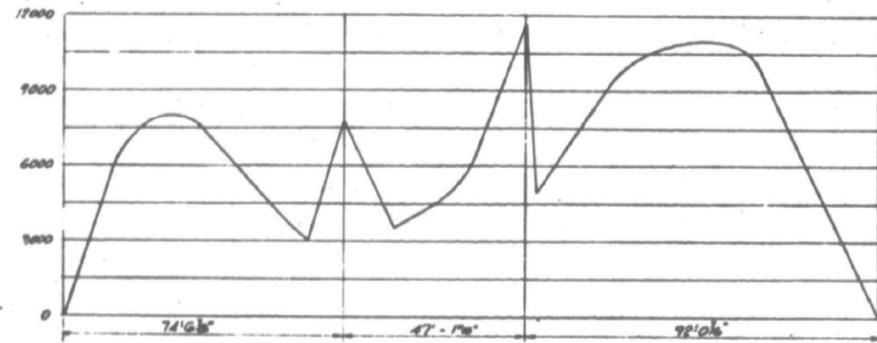
SCALE: SHEET 2 OF 6 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	2017-026BP	COOK	21	13
CONTRACT NO. 62F42				
ILLINOIS FED. AID PROJECT				

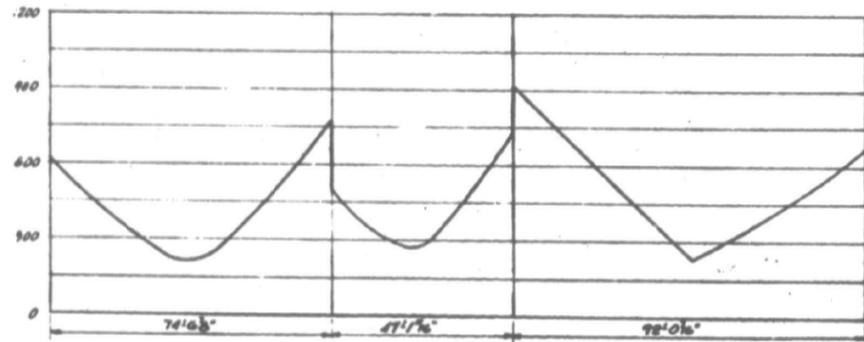
FOR INFORMATION ONLY



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



G3 MAX. MOMENT ENVELOPE  
Scales: Vertical 1" = 3000 ft-k  
Horizontal 1" = 20'



G3 MAX. SHEAR ENVELOPE  
Scales: Vertical 1" = 50 k  
Horizontal 1" = 20'

FILE NAME =	USER NAME = diazo	DESIGNED -	REVISED -
p:\11084EBIDINTEG.illinois.gov\PIWIDOT\Documents\DOT Offices\District 1\Projects\DI2931\Design\DI29317-sht-plan.dgn		REVISED -	REVISED -
Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 10/4/2017	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

LOC. 3) SN 016-0517  
I-90 (KENNEDY EXPY.) AT UP & METRA RR

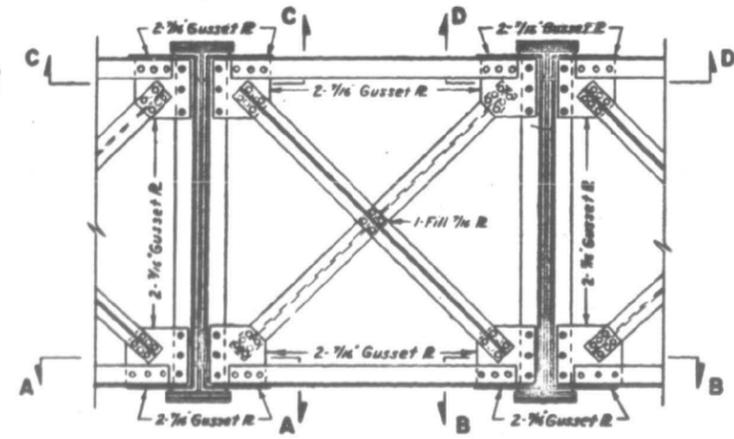
SCALE: SHEET 2A OF 6 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	2017-026BP	COOK	21	13A
				CONTRACT NO. 62F42
ILLINOIS FED. AID PROJECT				

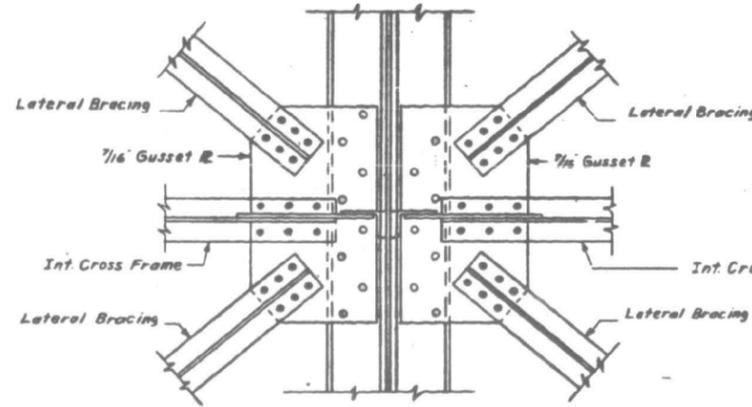


FOR INFORMATION ONLY

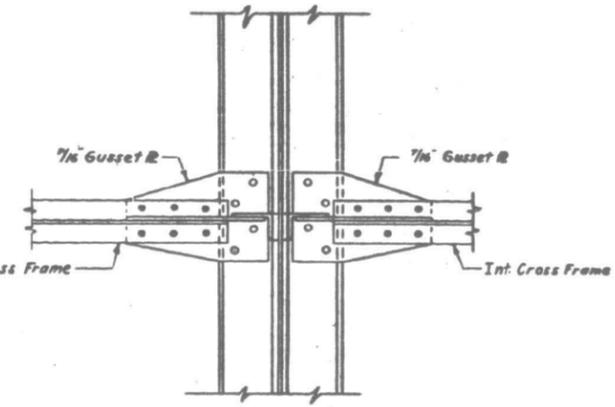
NOTE:  
 1. Lateral bracing not shown on typical interior cross frame.  
 2. Omit Cross Frame Diagonals of E Beams, (North & South Abuts) on I-beam Girders 243 See Sh. 446



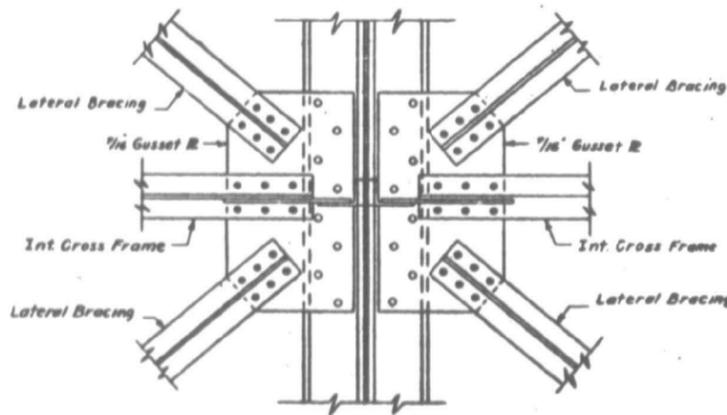
TYPICAL INT. CROSS FRAME  
 Scale: 1/2"=1'-0"



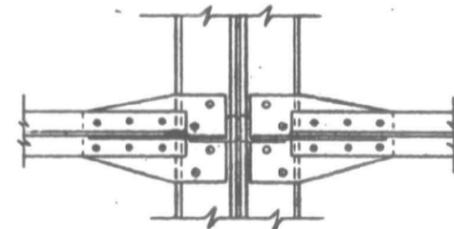
SECTION A-A  
 Scale: 1"=1'-0"



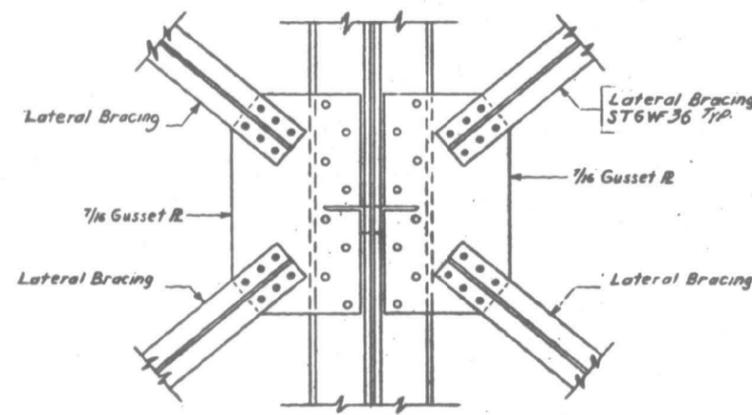
SECTION B-B  
 Scale: 1 1/2"=1'-0"



SECTION C-C  
 Scale: 1"=1'-0"

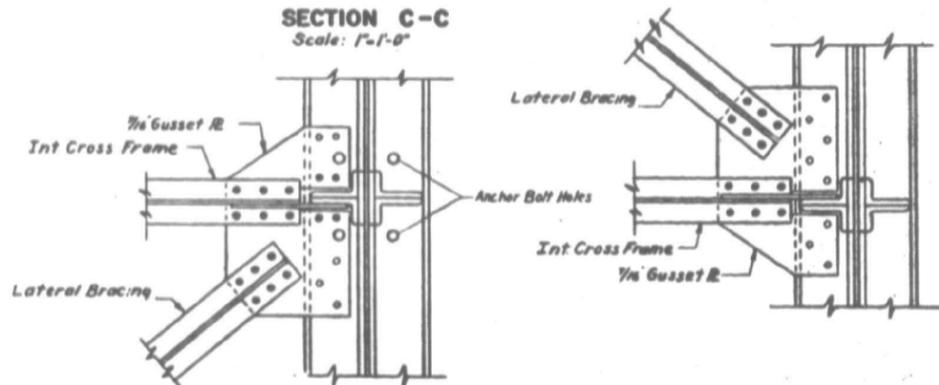


SECTION D-D  
 Scale: 1 1/2"=1'-0"



ALTERNATE INT. CONNECTION  
 Scale: 1"=1'-0"

NOTE:  
 1. All rivets to be 3/8"  
 2. For rivet spacing of web to flange & flange to cover plate see sheet # 36  
 3. All Lateral Bracing and Cross Frames shall be ST6WF36



TYPICAL BOTTOM AND TOP CONNECTIONS AT ABUTMENTS  
 Scale: 1"=1'-0"

FILE NAME =	USER NAME = diazo	DESIGNED -	REVISED -
p:\1\084EBID\INTEG\illinois.gov\PIWIDOT\Documents\DOT Offices\District 1\Projects\DI29317\Design\DI29317-sht-pln.dgn		CHECKED -	REVISED -
Default	PLOT DATE = 10/4/2017	DATE -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

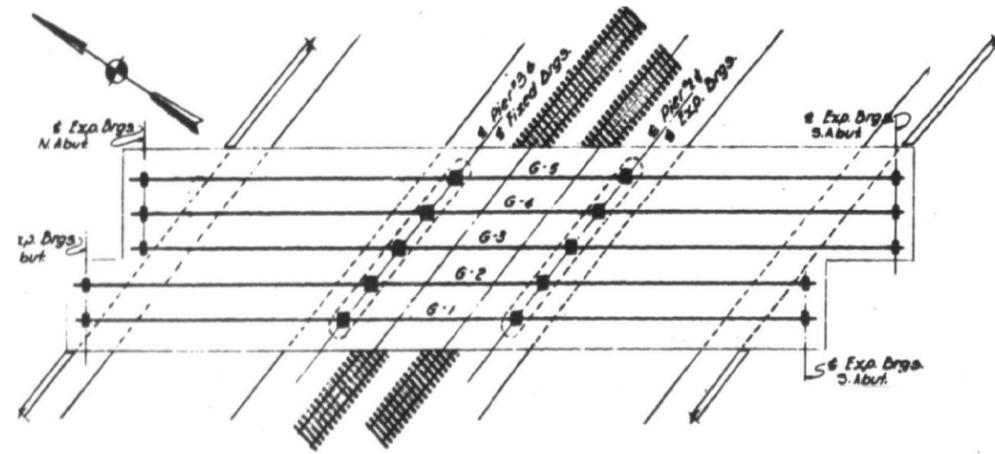
LOC. 3) SN 016-0517  
 I-90 (KENNEDY EXPY.) AT UP & METRA RR

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

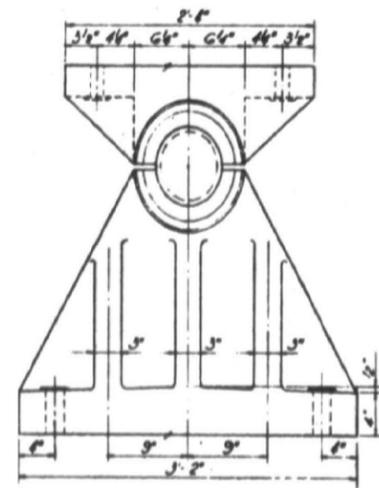
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	2017-026BP	COOK	21	13C
CONTRACT NO. 62F42				
ILLINOIS FED. AID PROJECT				



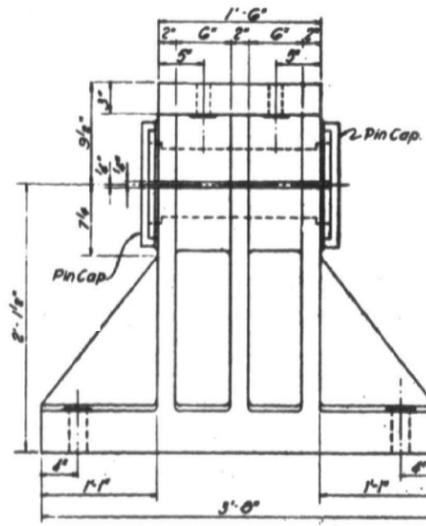




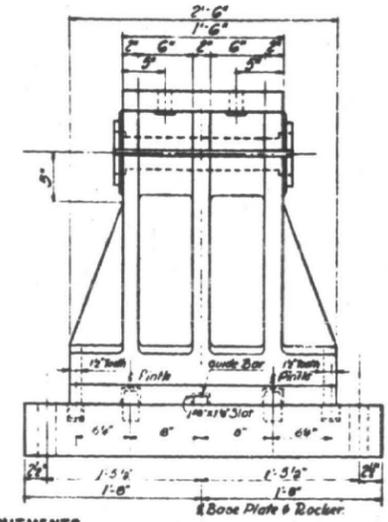
**KEY PLAN**  
SHOWING LOCATION OF BEARING SHOES  
Scale: 1"=10'-0"



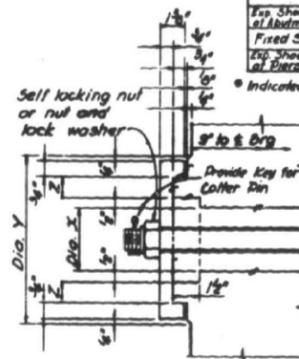
**DETAIL OF FIXED BEARINGS**  
Scale: 1/2"=1'-0"



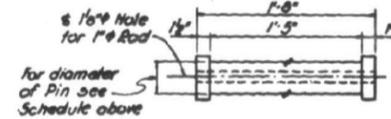
**EXPANSION BEARINGS AT ABUTMENTS**



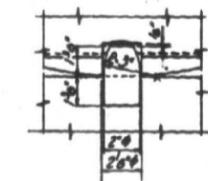
**DETAIL OF EXPANSION BEARINGS**  
Scale: 1/2"=1'-0"



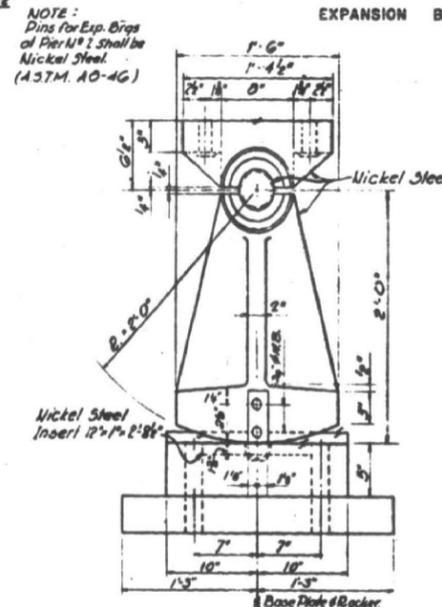
**DETAIL OF PIN CAPS**  
Scale: 5/16"=1'-0"



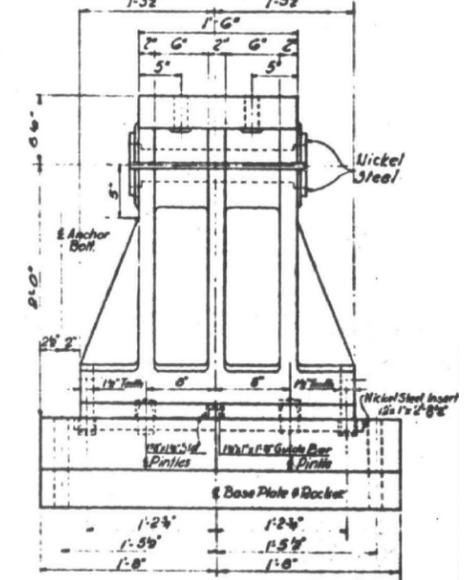
**DETAIL OF PINS**  
Scale: 1/4"=1'-0"



**DETAIL OF PINTLES**  
Scale: 5/16"=1'-0"



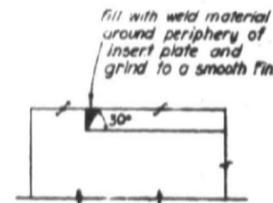
**DETAIL OF EXPANSION BEARINGS**  
Scale: 1/2"=1'-0"



BASE PLATE BEARING PRESSURE			
LOCATION	Type of Bearing	Bearing Pressure (psi)	Allowable Bearing Pressure (psi)
Abutment	Exp.	937	938
Pier 2	Exp.	788	"
Pier 3	Fixed	935	938

PIN BEARING PRESSURES			
LOCATION	Type of Bearing	Diameter of Pin	Pin Bearing Pressure (ksi)
Abutment	Exp.	3 1/2"	10.80
Pier 2	Exp.	3 1/2"	17.10
Pier 3	Fixed	6 1/2"	11.98

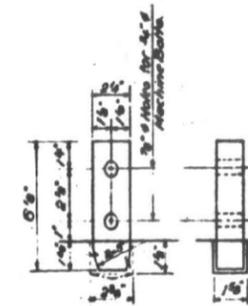
\* Indicates Nickel Steel. See Note # 10



**CONNECTION OF INSERT PLATE TO BASE PLATE**  
Scale: 3/4"=1'-0"

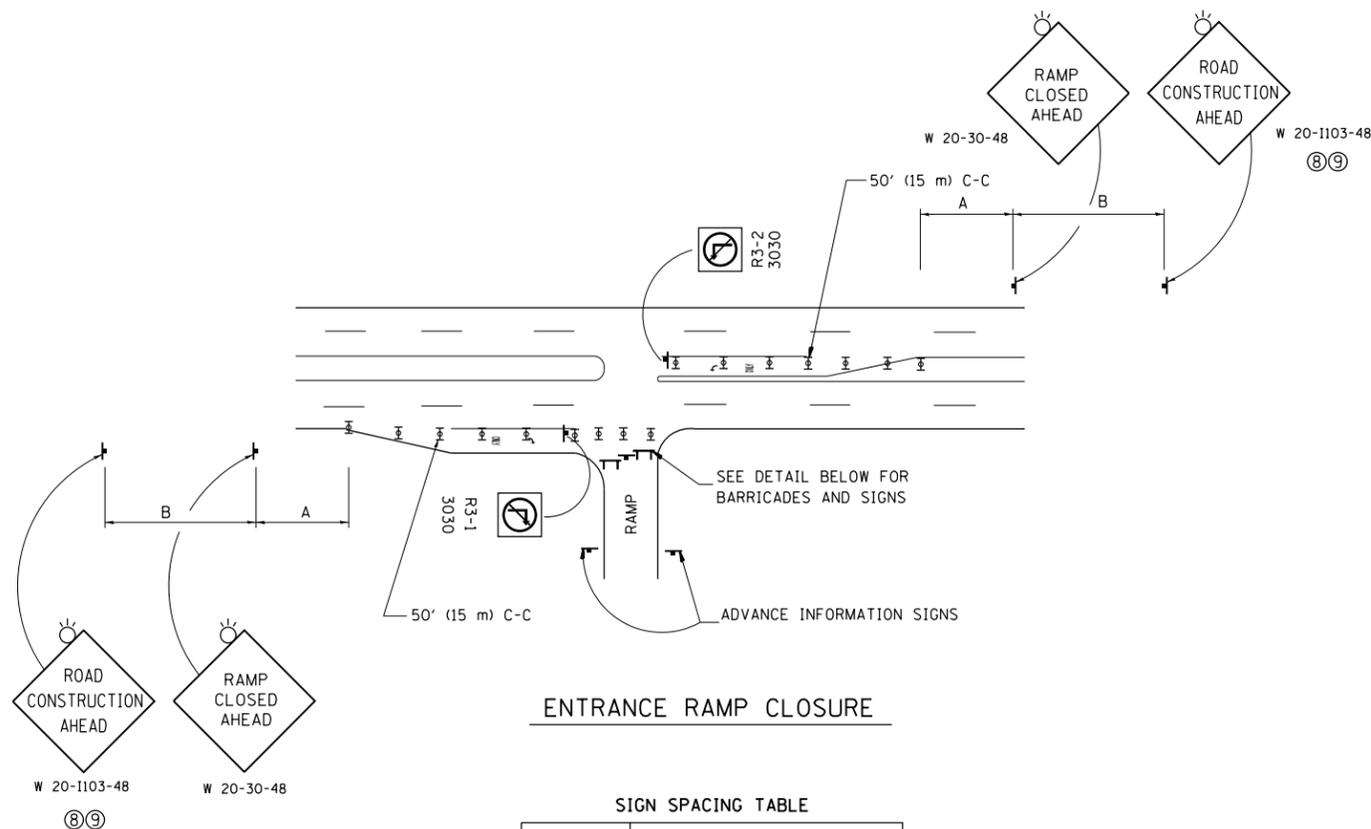
**Notes:**

- 1- Bolt holes in castings to be drilled to metal template bussed and spot faced. Template to be provided to substructure contractor.
- 2- Oversize holes in base &s and castings to be packed with lead or babbitt after adjustment of bearing and stringer and before anchor bolts are tightened.
- 3- Bearings to be shop assembled and match marked.
- 4- Rockers to be checked for full bearing.
- 5- Expansion shoes at Pier No. 2 to be Nickel Steel as noted. Except the Base Plates which shall conform to Grade 65-35, ASTM-A27.
- 6- All anchor bolts to be 1 1/2" swaged bolts. Nuts for anchor bolts to be 2".
- 7- All bolts for fastening upper shoe to girder to be 1 1/2". All bolt holes in upper shoe to be 1 1/2".
- 8- Expansion shoes at Abutments and Fixed shoes at Pier No. 3 to be Carbon Steel, Grade 65-35, ASTM-A27.
- 9- Provide fabric or approved equal under all base plates.
- 10- Structural Nickel Steel conform to the Specifications for Structural Nickel Steel of the A.S.T.M. A277.
- 11- All Pins except as noted shall conform to ASTM, A228 Grade F.



**DETAIL OF TOOTH**  
Scale: 3/4"=1'-0"



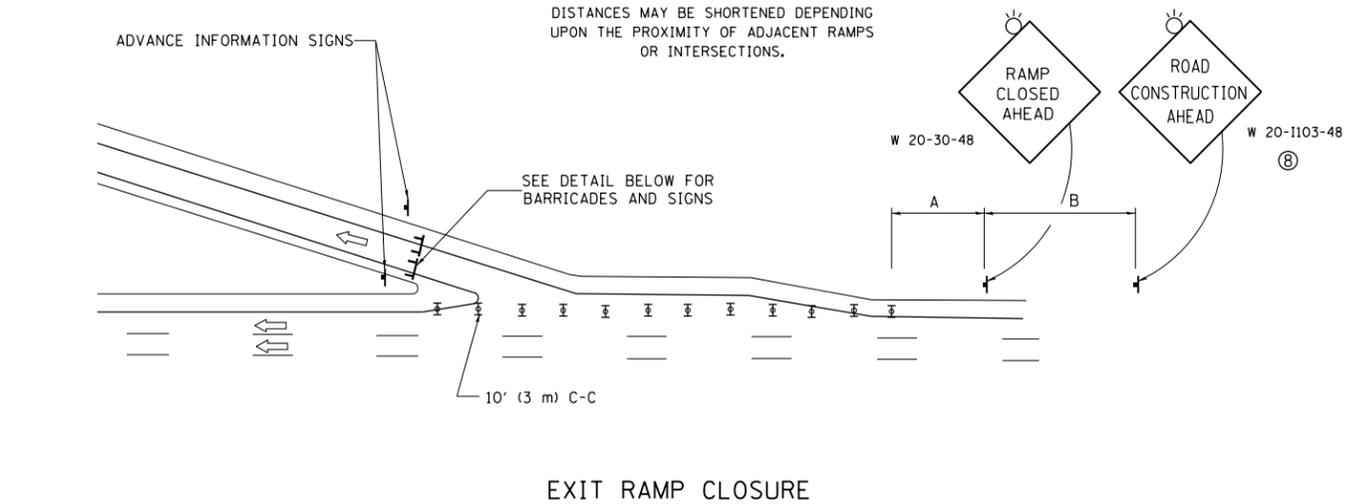


**ENTRANCE RAMP CLOSURE**

**SIGN SPACING TABLE**

FACILITY	DISTANCE BETWEEN SIGNS	
	A	B
EXPRESSWAY >24 HOURS	1000' (300 m)	1500' (450 m)
EXPRESSWAY <24 HOURS	500' (150 m)	500' (150 m)
ARTERIAL 55 MPH	500' (150 m)	500' (150 m)
ARTERIAL 50-45 MPH	350' (100 m)	350' (100 m)
ARTERIAL <45 MPH	200' (60 m)	200' (60 m)

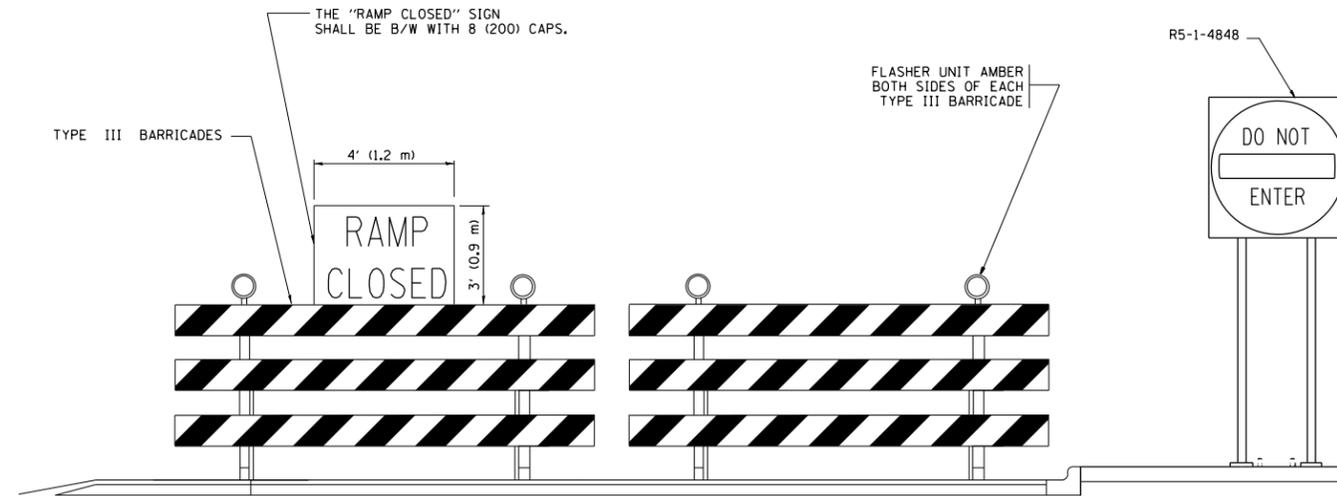
DISTANCES MAY BE SHORTENED DEPENDING UPON THE PROXIMITY OF ADJACENT RAMPS OR INTERSECTIONS.



**EXIT RAMP CLOSURE**

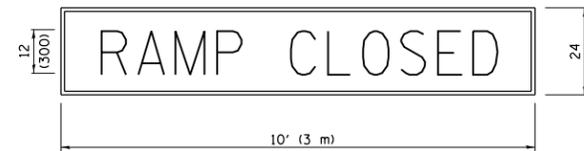
**SYMBOLS**

- ⊥ TYPE II BARRICADE OR DRUM WITH STEADY BURN MONO-DIRECTIONAL LIGHT
- ⊓ TYPE III BARRICADE WITH 2 FLASHING LIGHTS



**DETAIL FOR REQUIRED BARRICADES & SIGNS**

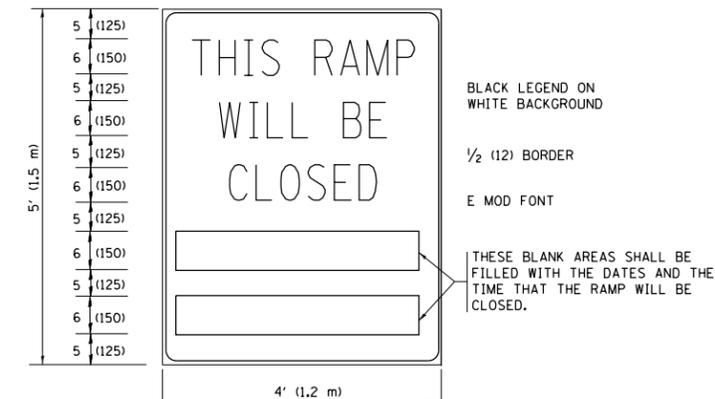
**RAMP CLOSURE ADVANCE WARNING SIGN**



BLACK LEGEND ON ORANGE BACKGROUND MOUNTED DIAGONALLY  
E MOD FONT  
1 (25) BORDER

THESE SIGNS ARE REQUIRED ON ALL THE EXIT GUIDE SIGNS FOR EXIT RAMPS THAT WILL BE CLOSED FOR MORE THAN FOUR (4) CONSECUTIVE DAYS.

**RAMP CLOSURE ADVANCE INFORMATION SIGN**



BLACK LEGEND ON WHITE BACKGROUND  
1/2 (12) BORDER  
E MOD FONT

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.

THESE SIGNS SHALL BE FABRICATED AND PAID FOR ACCORDING TO THE TEMPORARY INFORMATION SIGNING SPECIAL PROVISION

**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, PRECEDED BY A W20-7 FLAGGER WARNING SIGN.
- ④ ALL ROUTE MARKERS AND TRAILBLAZER ASSEMBLIES WHICH DIRECT MOTORISTS TO A CLOSED ENTRANCE RAMP SHALL BE COVERED WHEN THE RAMP IS CLOSED FOR MORE THAN FOUR (4) DAYS.
- 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 FOUR (4) DAYS IN LENGTH.
- ⑧ ROAD CONSTRUCTION AHEAD SIGNS MAY BE OMITTED WHEN THIS DETAIL IS USED IN CONJUNCTION WITH OTHER TRAFFIC CONTROL THAT ALREADY INCLUDES A ROAD CONSTRUCTION AHEAD SIGN.
- ⑨ ARTERIAL ROAD CONSTRUCTION AHEAD SIGNS SHALL BE INSTALLED ON THE LEFT SIDE OF TRAFFIC IF THE MEDIAN IS MORE THAN 10 FT WIDE.

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

FILE NAME =	USER NAME = diazo	DESIGNED - DWS	REVISED - JAF 02-06
pw\1\084EBIDINTEG.illinois.gov\PIWIDOT\Documents\IDOT Offices\District 1\Projects\DI293\Drawings\Design\DistStd.dgn		CHECKED -	REVISED - SPB 01-07
		DATE - 02-83	REVISED - SPB 12-09
			REVISED - MD 06-13

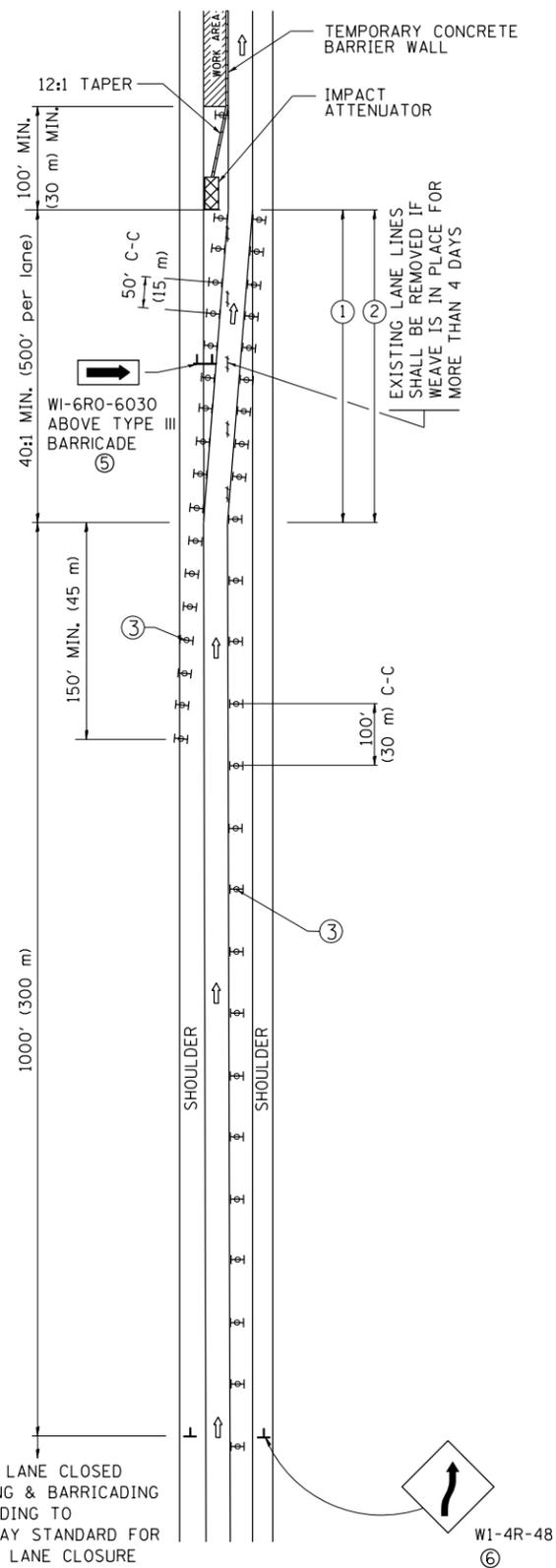
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ENTRANCE AND EXIT RAMP  
CLOSURE DETAILS**

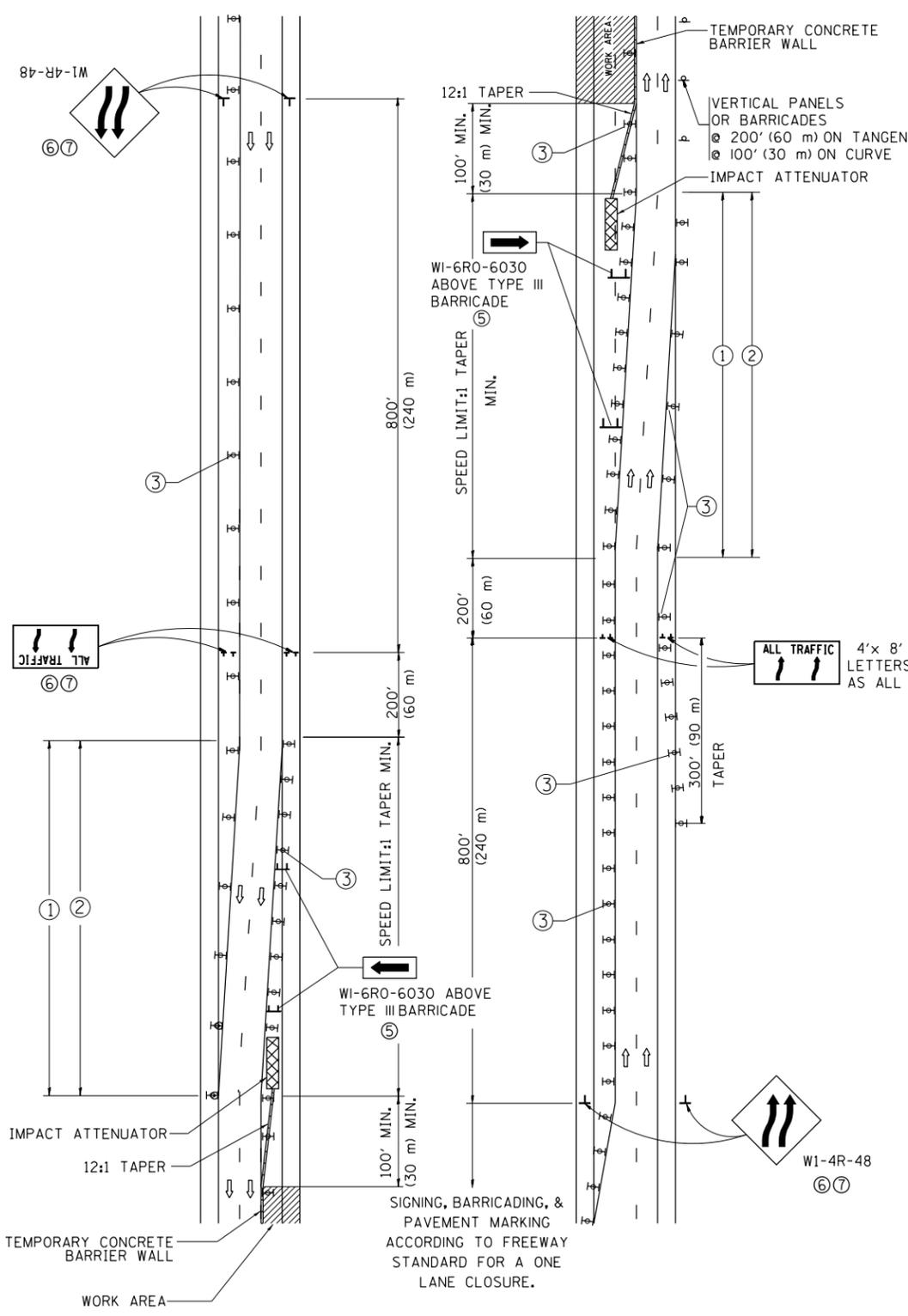
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	2017-026BP	COOK	21	18
TC-08		CONTRACT NO. 62F42		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

# SINGLE LANE WEAVE



# MULTI-LANE WEAVE



### GENERAL NOTES

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

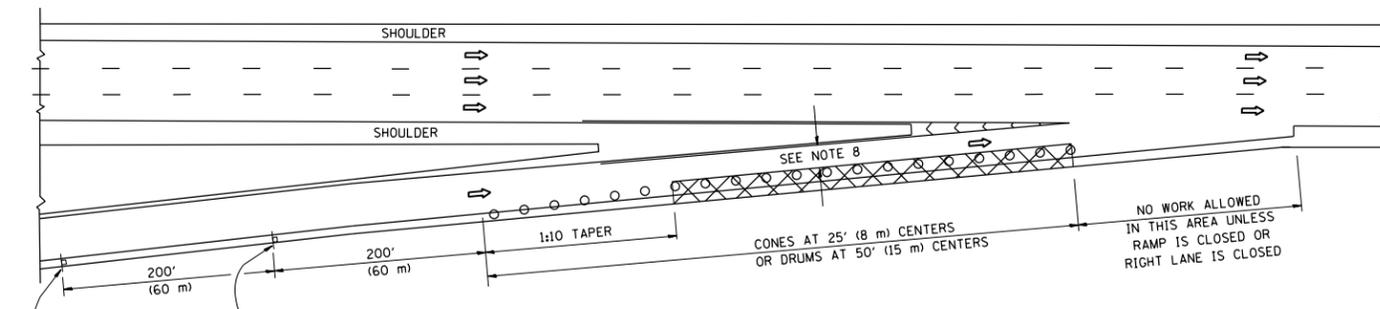
### SYMBOLS

- DIRECTION OF TRAFFIC
- WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- TYPE II BARRICADE OR DRUM WITH MONO-DIRECTIONAL STEADY BURNING LIGHT
- TEMPORARY CONCRETE BARRIER WALL
- IMPACT ATTENUATOR
- W1-4R-48 (6, 7)
- W24-1-48 (7)

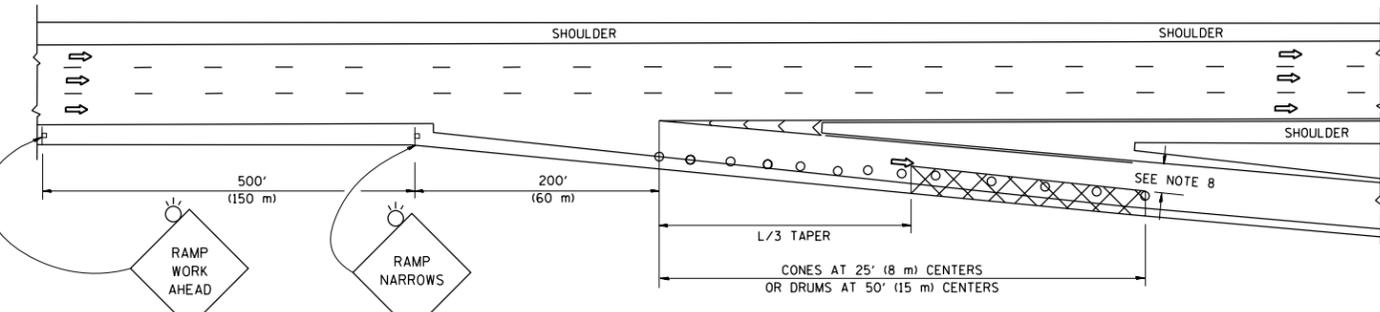
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

FILE NAME =	USER NAME = diazio	DESIGNED - DWS	REVISED - JAF 02-06	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TRAFFIC CONTROL DETAILS FOR FREEWAY SINGLE &amp; MULTI-LANE WEAVE</b>			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\11\084EBIDINTEG.illinois.gov\PIWIDOT\Documents\IDOT Offices\District 1\Projects\DI293\Drawings\Design\DistStd.dgn	PLotted SCALE = 100.0000' / in.	CHECKED -	REVISED - SPB 01-07					90	2017-026BP	COOK	21	19
PLotted DATE = 8/22/2017	DATE - 02-87	REVISED - MD 06-13	REVISED - SPB 12-09		<b>TC-09</b>		<b>CONTRACT NO. 62F42</b>		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			
					SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.				

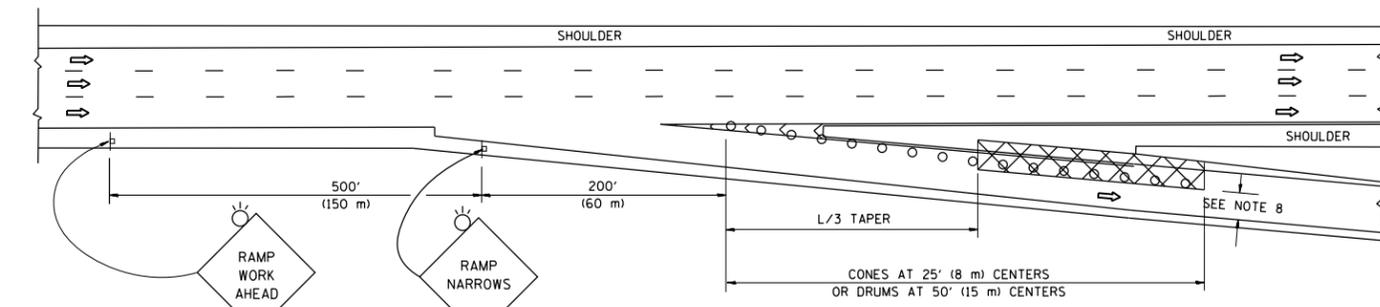
PARTIAL RAMP CLOSURE DETAILS



TYPICAL ENTRANCE RAMP



TYPICAL EXIT RAMP



TYPICAL EXIT RAMP

SYMBOLS

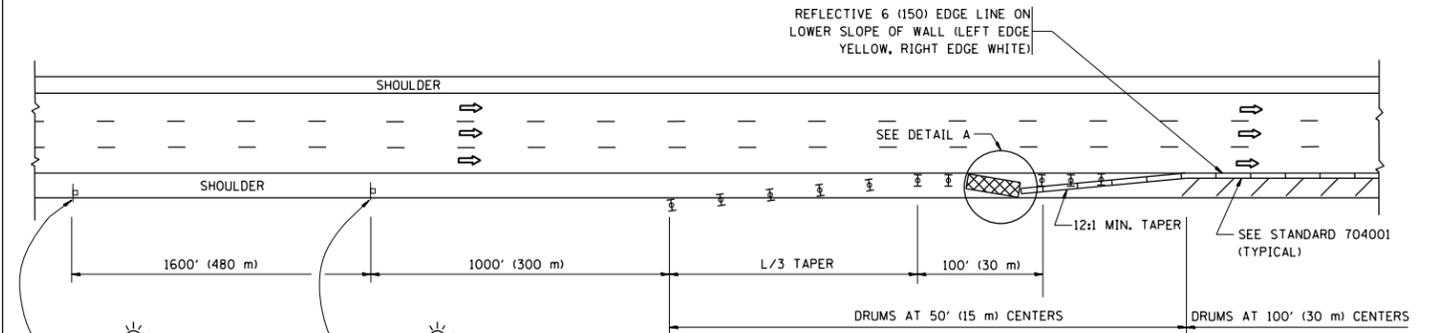
- ACTIVE WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- TYPE II BARRICADE OR DRUM WITH STEADY BURN MONO-DIRECTIONAL LIGHT
- CONE, DRUM OR BARRICADE
- IMPACT ATTENUATOR OF TYPE AND TEST LEVEL SPECIFIED

GENERAL NOTES

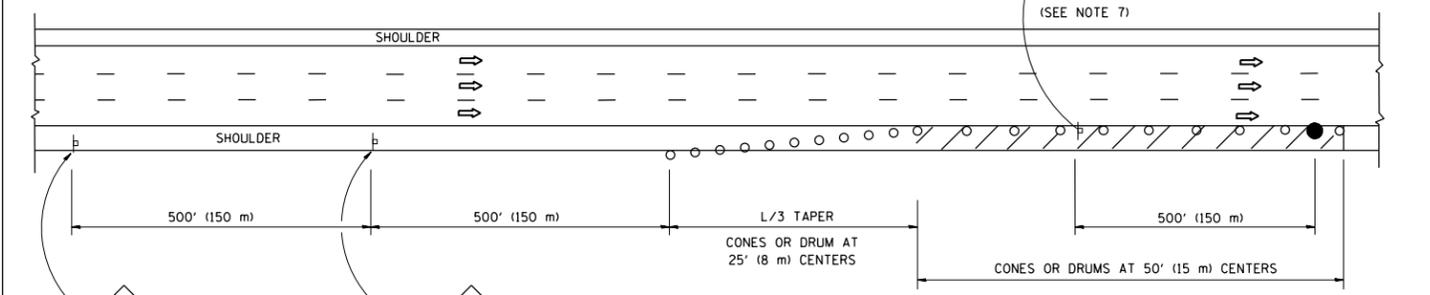
1. THE "L" DISTANCE EQUALS:
 

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 NIGHTIME 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

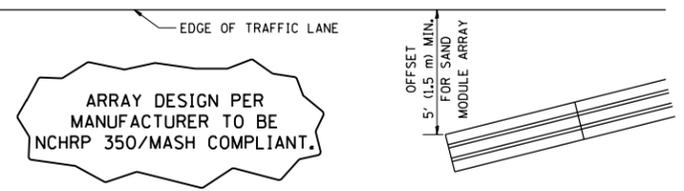


PERMANENT SHOULDER CLOSURE



DAYTIME SHOULDER CLOSURE

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



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

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 NARROW USE TYPE DEVICE TO MEET NCHRP350/MASH.
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 AVTIVITY REQUIRES FREQUENT ENCRACHMENT INTO THE LANE OPEN TO TRAFFIC.
 THE FLAGGER SHALL BE STATIONED APPROXIMATELY 100' (30 m) TO 200' (60 m) IN ADVANCE OF THE WORKERS.
8. 12' MIN. WIDTH TANGENT SECTION  
16' MIN. WIDTH CURVE SECTION.

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

FILE NAME =	USER NAME = diazo	DESIGNED -	REVISED - J.A.F. 12-06
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		DATE - 11-96	REVISED - S.P.B. 12-09
			REVISED - M.D. 06-13

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

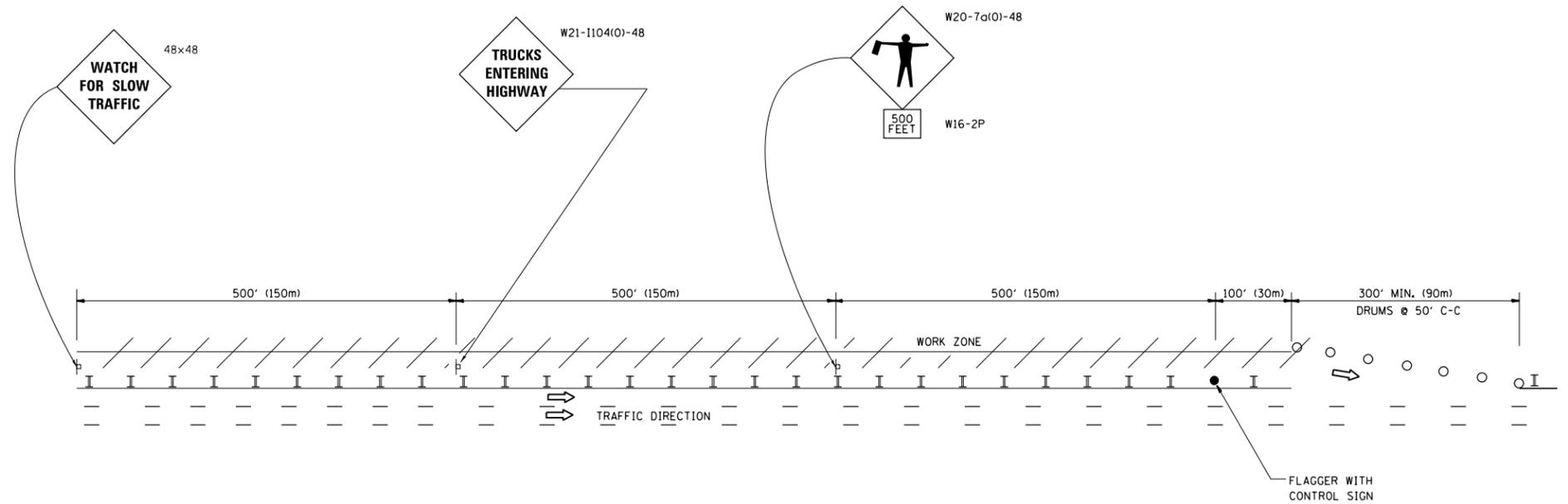
TRAFFIC CONTROL DETAILS FOR FREEWAY  
SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES

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

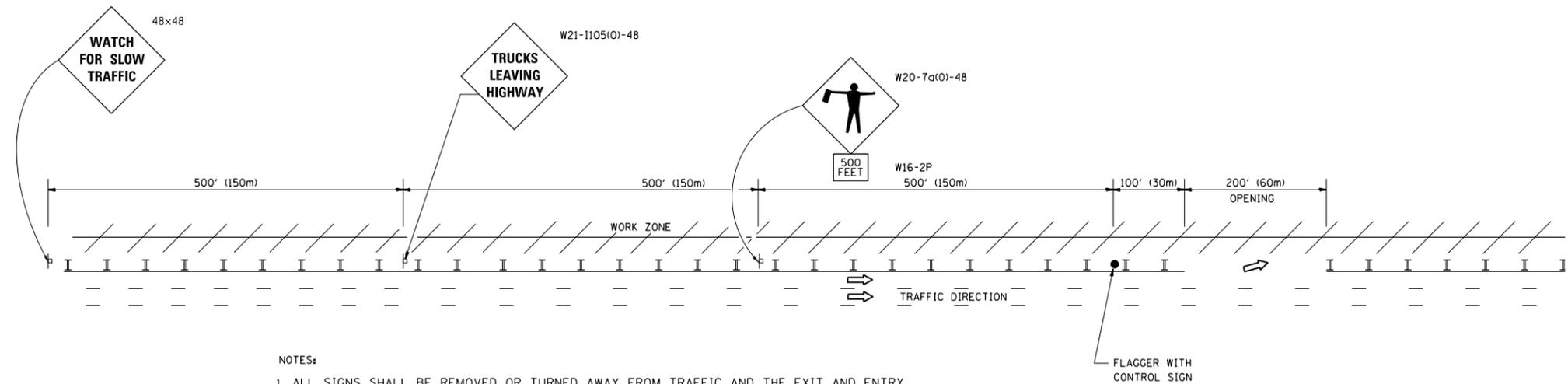
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	2017-026BP	COOK	21	20
TC-17		CONTRACT NO. 62F42		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

# SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS

## WORK ZONE EXIT OPENING



## WORK ZONE ENTRY OPENING



**NOTES:**

1. ALL SIGNS SHALL BE REMOVED OR TURNED AWAY FROM TRAFFIC AND THE EXIT AND ENTRY OPENINGS SHALL BE CLOSED WHEN THE FLAGGING OPERATION CEASES. NON OPERATING EQUIPMENT SHALL COMPLY WITH ARTICLE 701.11
2. WORK ZONE OPENINGS SHALL BE A MINIMUM OF ONE HALF MILE APART AND A MINIMUM OF ONE QUARTER MILE FROM ALL ENTRANCE AND EXIT RAMPS.
3. EXITING THE WORK ZONE AT ANY PLACE OTHER THAN AT A WORK ZONE EXIT OPENING WILL BE PROHIBITED.
4. ALL VEHICLES SHALL ENTER THE WORK ZONE AT ENTRY OPENINGS, USING THEIR TURN SIGNALS TO WARN MOTORISTS
5. FLAGGERS SHALL NOT STOP TRAFFIC OR DIRECT TRAFFIC INTO AN ADJACENT LANE.

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FILE NAME =	USER NAME = diazo	DESIGNED -	REVISED - J.A.F. 02-06	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>FREEWAY/EXPRESSWAY SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS ON FREEWAYS/EXPRESSWAYS</b>	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		DATE -	REVISED - S.P.B. 12-09			<b>TC-18</b>		<b>CONTRACT NO. 62F42</b>		
			REVISED - M.D. 06-13			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
				SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.			