

# PROPOSED HIGHWAY PLANS

**FAP 309 (US 30)  
SECTION (7B)BRR  
PROJECT NHPP-3SIE(336)  
BRIDGE REPAIR  
WHITESIDE COUNTY  
C-92-043-13**

**INDEX OF SHEETS**

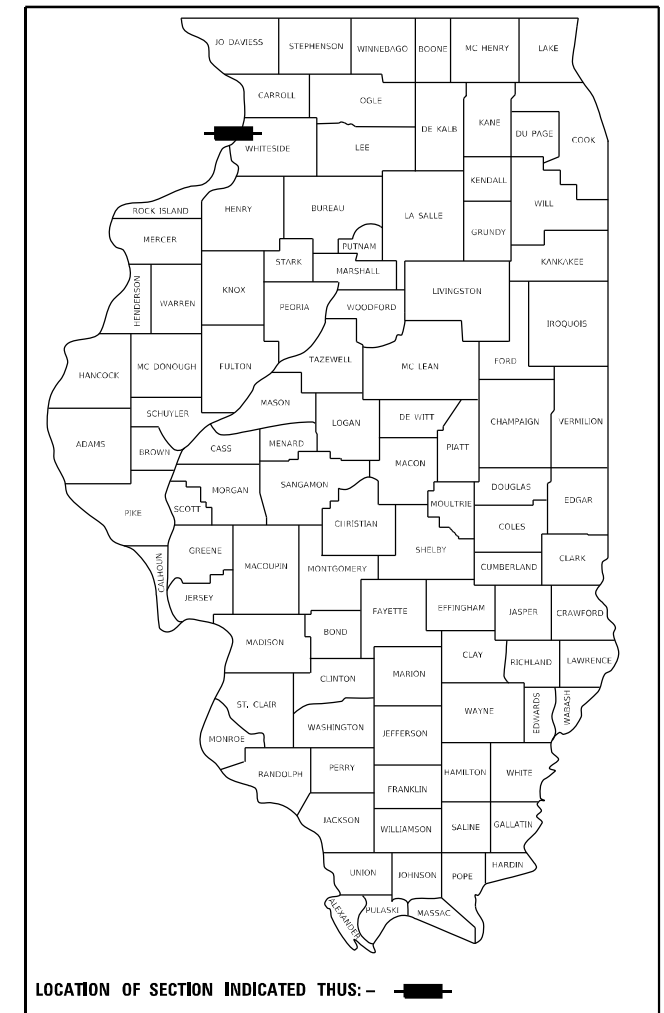
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- 701901-08 TRAFFIC CONTROL DEVICES

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
309	(7B)BRR	WHITESIDE	32	1
		ILLINOIS	CONTRACT NO. 64J47	

D-92-025-13

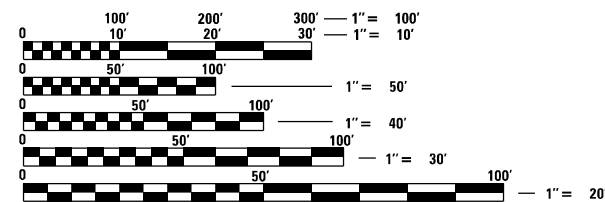
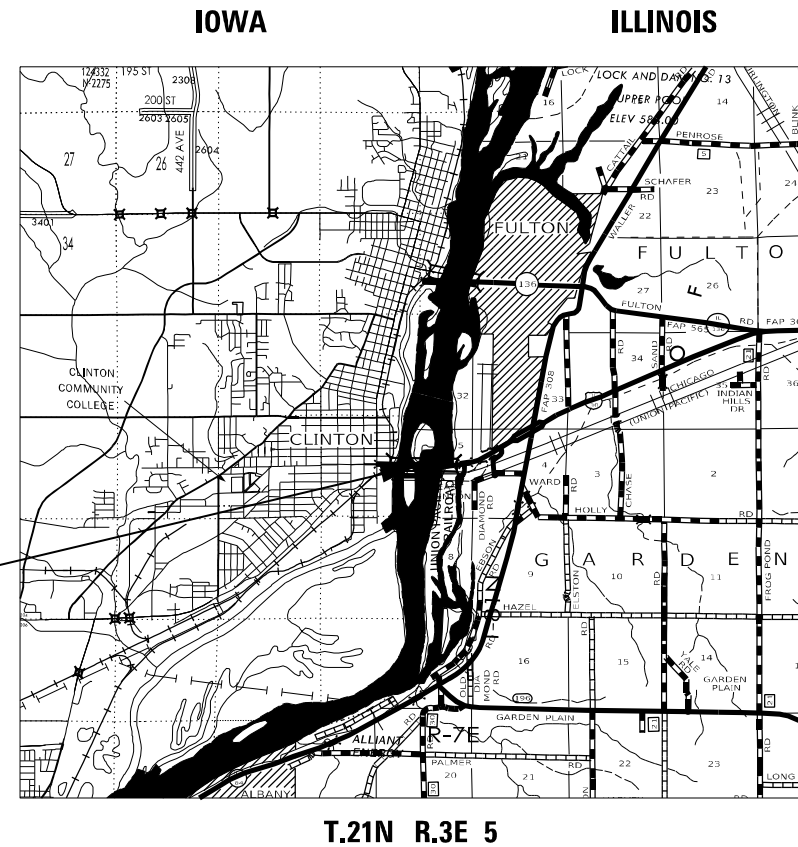


LOCATION OF SECTION INDICATED THUS: - [thick black bar] -

**TOWNSHIP: GARDEN PLAIN  
SECTION: 5**

**DESCRIPTION OF IMPROVEMENT**

**THE IMPROVEMENT CONSISTS OF STRUCTURAL STEEL REPAIRS: BEAMS, BRACKETS, HANGER, CANOPY AND JOINT REPAIRS, HANDRAIL AND POST REPLACEMENT TO STRUCTURE CARRYING US 30 OVER THE MISSISSIPPI RIVER (SN 098-6003)**



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.  
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS  
1-800-892-0123  
OR 811

**PROJECT MANAGER: CHRIS CONDERMAN PH#(815)284-5995  
SQUAD LEADER: CHAD SPREEMAN PH#(815)284-5934**

GROSS LENGTH = 4,165 FT. = 0.788 MILE  
NET LENGTH = 4,165 FT. = 0.788 MILE

**CONTRACT NO. 64J47**

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED 01/31 20 22

*David Almond*  
REGIONAL ENGINEER

March 25 20 22  
*Stephen M. Frank*  
ENGINEER OF DESIGN AND ENVIRONMENT

March 25 20 22  
*Stephen M. Frank*  
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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



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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				ILLINOIS	IOWA
				80% FEDERAL / 20 % STATE	100 % STATE
				BRIDGE	BRIDGE
				0013	0013
				098-6003	098-6003
4200060	WELDED WIRE REINFORCEMENT	SQ YD	6	3	3
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	2	1	1
67100100	MOBILIZATION	L SUM	1	0.5	0.5
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	0.5	0.5
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	0.5	0.5
70107004	PAVEMENT MARKING BLACKOUT TAPE, 4"	FOOT	680	340	340
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	108	54	54
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	620	310	310
70307120	TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE IV TAPE	FOOT	1180	590	590
X0325451	NON-SHRINK GROUT	CU FT	38.6	19.3	19.3
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	0.5	0.5
Z0001905	STRUCTURAL STEEL REPAIR	POUND	18250	9125	9125
Z0007101	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 1	L SUM	1	0.5	0.5
Z0010501	CLEANING AND PAINTING STEEL BRIDGE NO. 1	L SUM	1	0.5	0.5

\*SPECIALTY ITEMS

\*NON-PARTICIPATING ITEMS

USER NAME = costellopg PLOT SCALE = 100.0000' / in. PLOT DATE = Jan-31-2022 11:57:44 AM	DESIGNED - DRAWN - CHECKED - DATE -	REVISED - REVISED - REVISED - REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SUMMARY OF QUANTITIES</b>	F.A.P. RTE. 309 SECTION (7B)BRR COUNTY WHITESIDE TOTAL SHEETS 32 SHEET NO. 3 CONTRACT NO. 64J47 ILLINOIS FED. AID PROJECT
			SCALE:	SHEET OF SHEETS	STA. TO STA.

## SCHEDULE OF QUANTITIES

**70107025**

**CHANGEABLE MESSAGE SIGN**

CAL DAY	TOTAL	LOCATION
108	108	Note locations are on the traffic control sheets in plans and to be determined by Resident.
<b>108</b>	<b>108</b>	<b>TOTAL</b>

### STRIPING SCHEDULE

LOCATION		REMARKS	70107004		70307120		70300150
			PAVEMENT MARKING BLACKOUT TAPE, 4"	TEMPORARY PAVEMENT MARKING LINE - 4", TPYE IV TAPE		SHORT-TERM PAVEMENT MARKING REMOVAL	
Location			4X Length	Yellow	White		
			FT	FOOT	FOOT		SQ FT
<b>MAINLINE</b>		Rock Island COUNTY					
4th Street Lane Closure		Lane Closure	180	0	180		120
Engineers Contingency		Contingency	500	500	500		500
<b>MAINLINE</b>		Rock Island COUNTY	<b>680</b>	<b>500</b>	<b>680</b>		<b>620</b>

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**






**SCHEDULE OF QUANTITIES  
STRIPING SCHEDULE**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
309	(7B)BRR	WHITESIDE	32	4
			CONTRACT NO. 64J47	
ILLINOIS   FED. AID PROJECT				



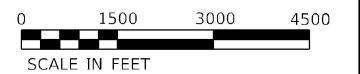
**SYMBOLS**

-  SIGN
-  TYPE II BARRICADE OR DRUM WITH LIGHT
-  TYPE III BARRICADE WITH FLASHERS
-  PORTABLE CHANGEABLE MESSAGE SIGN
-  ARROW BOARD

**DETOUR MAP**

DETOUR ROUTE 

NOTE:  
 ALL TRAFFIC CONTROL SHOWN ON PLANS WILL BE PAID FOR AS TRAFFIC CONTROL PROTECTION (SPECIAL).  
 NB ON US67 ADD SIGN 2 FROM PG 10 ONE BEFORE 2nd AVE SOUTH AND 13th AVE NORTH.  
 SB ON US67 ADD SIGN 1 FROM PG 10 ONE BEFORE 2nd SOUTH AVE AND 13th AVE NORTH.



USER NAME = costelloj	DESIGNED -	REVISED -
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

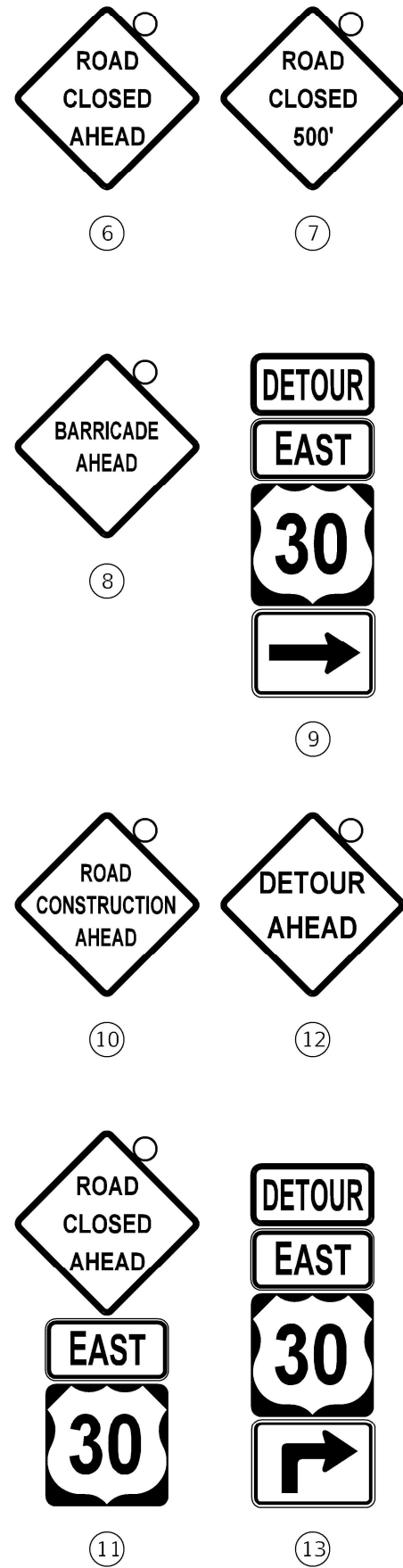
<b>US ROUTE 30 DETOUR ROUTE MAP</b>			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	(7B)BRR	WHITESIDE	32	5
CONTRACT NO. 64J47				
ILLINOIS FED. AID PROJECT				

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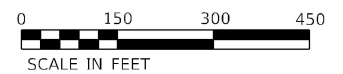


**SYMBOLS**

- SIGN
- TYPE II BARRICADE OR DRUM WITH LIGHT
- TYPE III BARRICADE WITH FLASHERS
- PORTABLE CHANGEABLE MESSAGE SIGN
- ARROW BOARD



NOTE:  
 ALL TRAFFIC CONTROL SHOWN ON PLANS WILL BE PAID FOR AS TRAFFIC CONTROL PROTECTION (SPECIAL).  
 COVER UP NO LEFT HAND TURN ARROWS.



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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

US ROUTE 30 ROAD CLOSURE SIGN LOCATIONS			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	(7B)BRR	WHITESIDE	32	6
CONTRACT NO. 64J47				
ILLINOIS FED. AID PROJECT				

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R11-2

3

1


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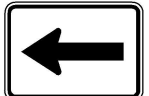



ADD

CHANGE TO







2






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ADD

SYMBOLS

-  SIGN
-  TYPE II BARRICADE OR DRUM WITH LIGHT
-  TYPE III BARRICADE WITH FLASHERS
-  PORTABLE CHANGEABLE MESSAGE SIGN
-  ARROW BOARD

NOTE:  
 ALL TRAFFIC CONTROL SHOWN ON PLANS WILL BE PAID FOR AS TRAFFIC CONTROL PROTECTION (SPECIAL).



COVER UP NO LEFT HAND TURN ARROWS FOR 3rd STREET.

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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

US ROUTE 30 AT 4th STREET  
 ROAD CLOSURE SIGN LOCATIONS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 316	SECTION (7B)BRR	COUNTY WHITESIDE	TOTAL SHEETS 32	SHEET NO. 7
CONTRACT NO. 64J47				
ILLINOIS FED. AID PROJECT				



1



2








3



4

### SYMBOLS

-  SIGN
-  TYPE II BARRICADE OR DRUM WITH LIGHT
-  TYPE III BARRICADE WITH FLASHERS
-  PORTABLE CHANGEABLE MESSAGE SIGN
-  ARROW BOARD



\* ROAD SIGNS 500' APART



10



11



12



13

NOTE:  
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PAID FOR AS TRAFFIC CONTROL PROTECTION (SPECIAL).



USER NAME = hogersonjd	DESIGNED -	REVISED -
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	DATE -	REVISED -

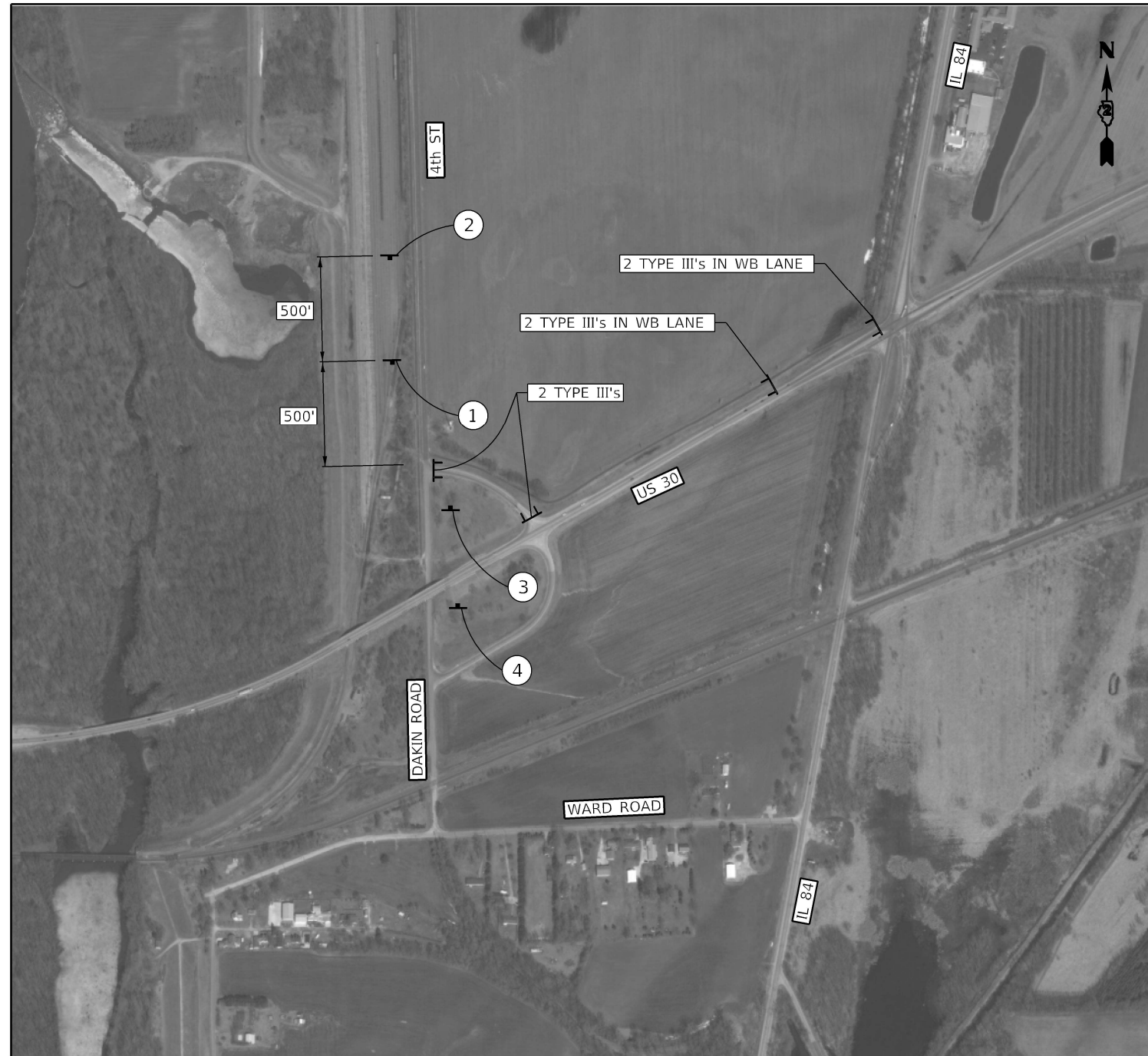
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

US ROUTE 30  
ROAD CLOSURE SIGN LOCATIONS






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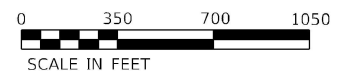
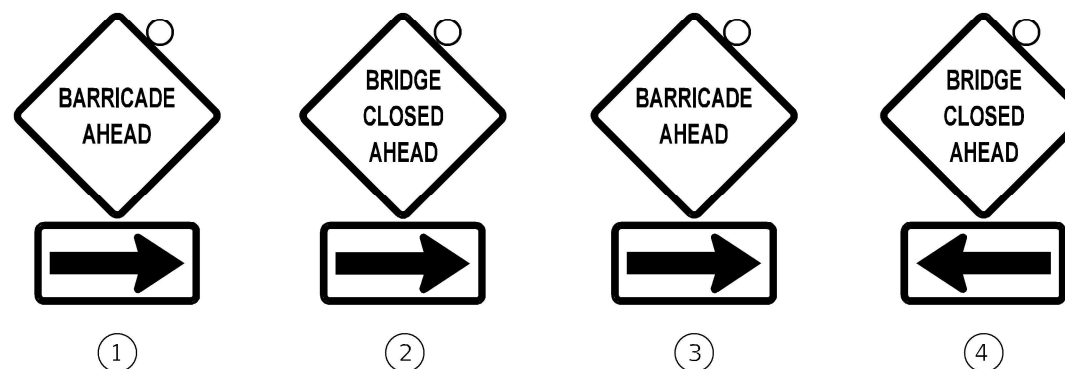
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316	(7B)BRR	WHITESIDE	32	8
CONTRACT NO. 64J47				
ILLINOIS FED. AID PROJECT				





**SYMBOLS**

-  SIGN
-  TYPE II BARRICADE OR DRUM WITH LIGHT
-  TYPE III BARRICADE WITH FLASHERS
-  PORTABLE CHANGEABLE MESSAGE SIGN
-  ARROW BOARD



NOTE:  
ALL TRAFFIC CONTROL SHOWN ON PLANS WILL BE  
PAID FOR AS TRAFFIC CONTROL PROTECTION (SPECIAL).

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PLOT DATE = 1/31/2022	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**US ROUTE 30  
ROAD CLOSURE SIGN LOCATIONS**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	(7B)BRR	WHITESIDE	32	9
CONTRACT NO. 64J47				
ILLINOIS FED. AID PROJECT				

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2



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7

**SYMBOLS**

- SIGN
- TYPE II BARRICADE OR DRUM WITH LIGHT
- TYPE III BARRICADE WITH FLASHERS
- PORTABLE CHANGEABLE MESSAGE SIGN
- ARROW BOARD

NOTE:  
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PLOT DATE = 1/31/2022	DATE -	REVISOR -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 136 & IL ROUTE 84  
 ROAD CLOSURE SIGN LOCATIONS**






SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	(7B)BRR	WHITESIDE	32	10
CONTRACT NO. 64J47				
ILLINOIS FED. AID PROJECT				





**SYMBOLS**

-  SIGN
-  TYPE II BARRICADE OR DRUM WITH LIGHT
-  TYPE III BARRICADE WITH FLASHERS
-  PORTABLE CHANGEABLE MESSAGE SIGN
-  ARROW BOARD



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③

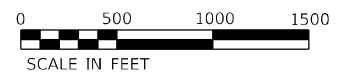


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NOTE:  
ALL TRAFFIC CONTROL SHOWN ON PLANS WILL BE PAID FOR AS TRAFFIC CONTROL PROTECTION (SPECIAL).



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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

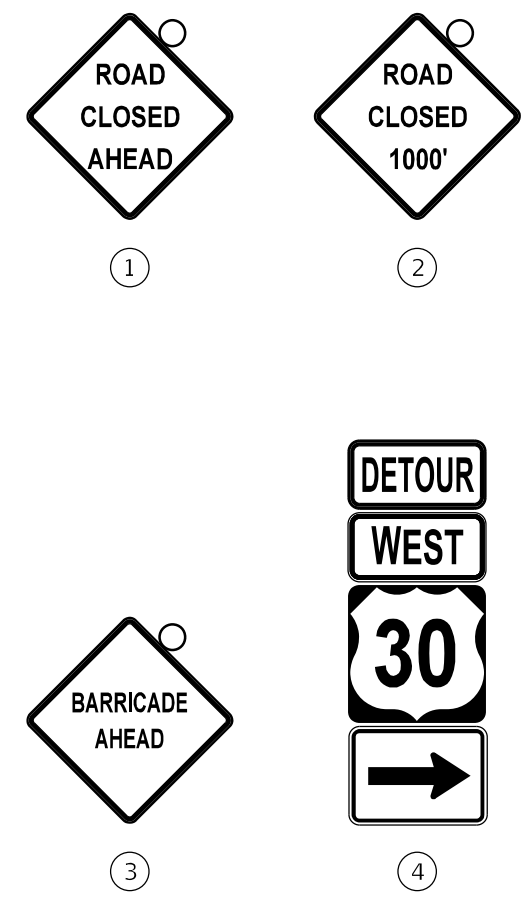
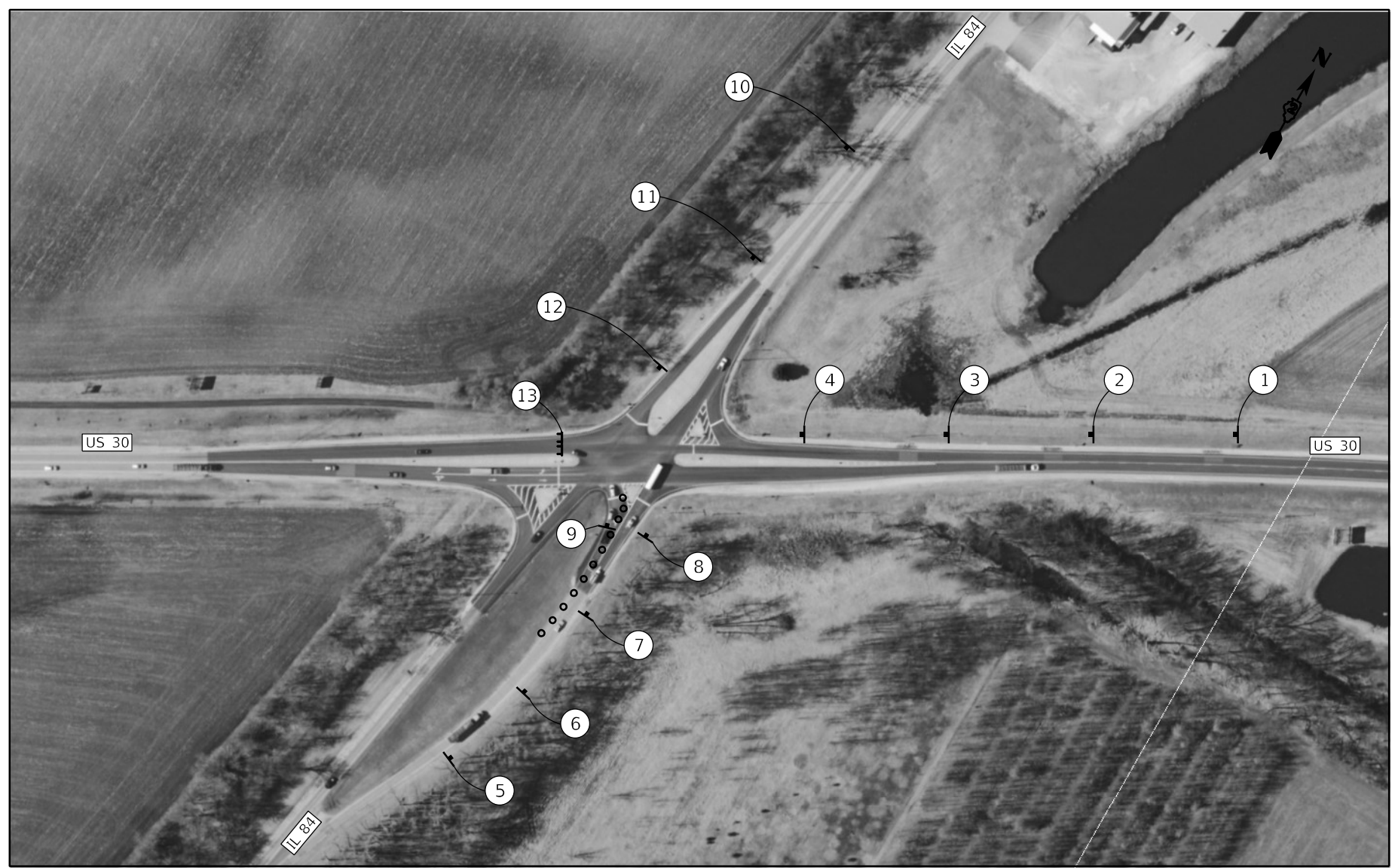
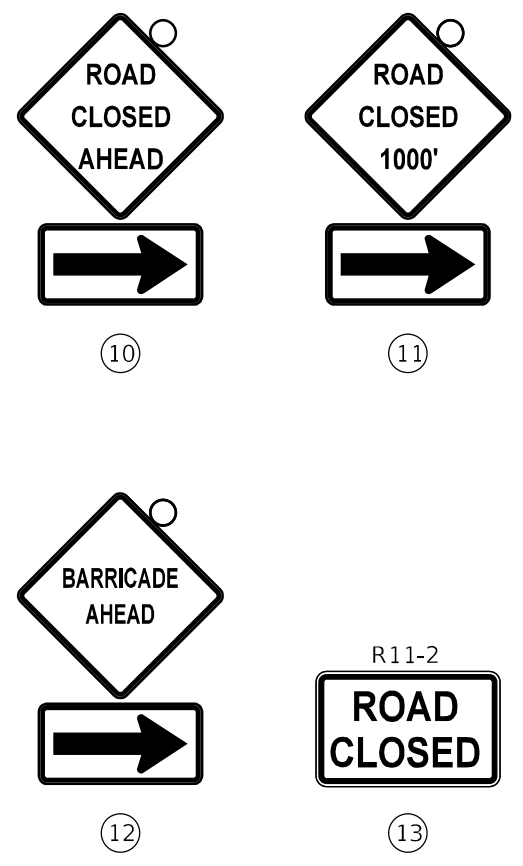
**US ROUTE 30 & IL ROUTE 136  
ROAD CLOSURE SIGN LOCATIONS**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	(7B)BRR	WHITESIDE	32	11
CONTRACT NO. 64J47				
ILLINOIS FED. AID PROJECT				

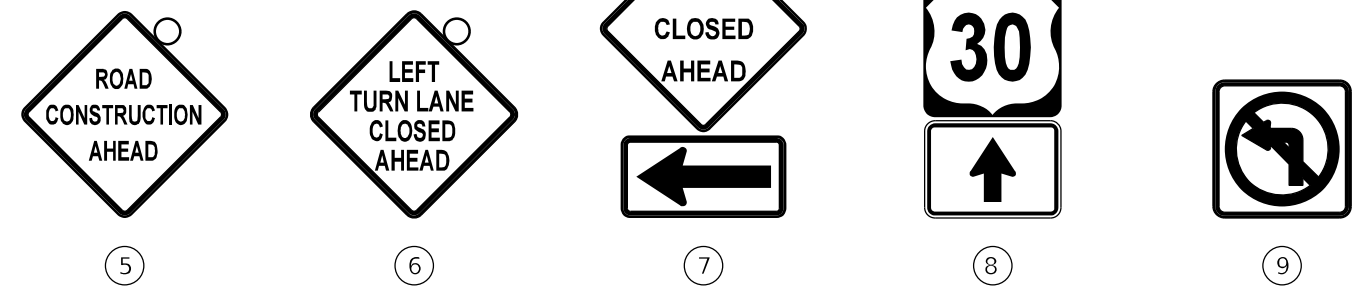


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**SYMBOLS**

- SIGN
- TYPE II BARRICADE OR DRUM WITH LIGHT
- TYPE III BARRICADE WITH FLASHERS
- PORTABLE CHANGEABLE MESSAGE SIGN
- ARROW BOARD



NOTE:  
 ALL TRAFFIC CONTROL SHOWN ON PLANS WILL BE PAID FOR AS TRAFFIC CONTROL PROTECTION (SPECIAL).



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PLOT DATE = 1/31/2022	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**US ROUTE 30 & IL 84**  
**ROAD CLOSURE SIGN LOCATIONS**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 316	SECTION (7B)/BRR	COUNTY WHITESIDE	TOTAL SHEETS 32	SHEET NO. 13
CONTRACT NO. 64J47			ILLINOIS FED. AID PROJECT	

Existing Structure: The Gateway Bridge, S.N. 098-6003, was constructed in 1956 (F.A.P. Route 309, Section (7B-1)D & 7BR). The 30-span structure consists of two units of three-span continuous beam spans and three units of three-span continuous two-girder system spans on the Iowa approach, a suspension span, and 15 continuous two-girder system spans with four hinges on the Illinois approach. The total structure length is approximately 4,165' back-to-back of abutments and has a width of 29'-4" face-to-face of parapets.

Traffic: Traffic to be maintained utilizing stage construction.

Salvage: No salvage.

**LOADING HS20-44 (NEW CONSTRUCTION)**

Allow 0#/sq. ft. for future wearing surface.

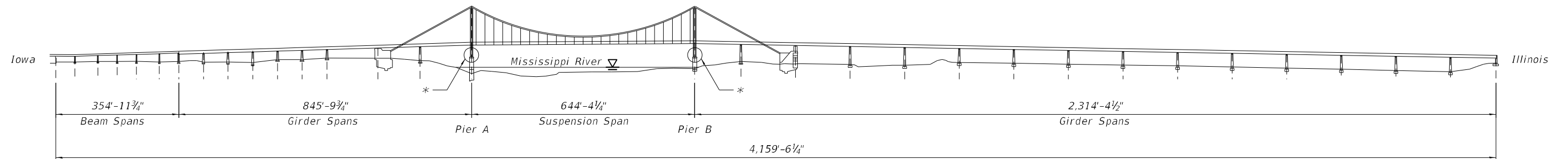
**DESIGN SPECIFICATIONS**

2002 AASHTO Standard Specifications for Highway Bridges, 17th Edition

**DESIGN STRESSES (NEW CONSTRUCTION)**

**FIELD UNITS**

$f_y = 36,000$  psi (M270 Grade 36 Structural Steel)



\* Install repair plates, cut out drain holes and place layer of non-shrink grout fill at base of each lower leg.

**ELEVATION - GATEWAY BRIDGE**  
(Looking North)

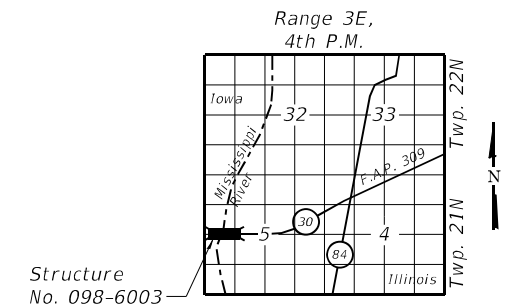
**INDEX OF SHEETS**

- 1 - General Elevation
- 2 - General Notes
- 3 - Pier and Tower Legs - Elevation and Section Views
- 4 - Steel Removal Details - 1
- 5 - Steel Removal Details - 2
- 6 - Steel Repair Details - 1
- 7 - Steel Repair Details - 2
- 8 - Concrete Repair Details
- 9 - Screen Details

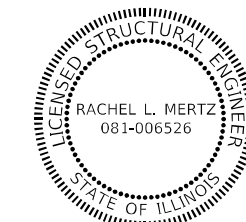
**TOTAL BILL OF MATERIAL**

Item	Unit	Super	Sub	Total
Welded Wire Reinforcement	Sq. Yd.	-	6	6
* Structural Steel Repair	Pound	-	18,250	18,250
Cleaning and Painting Steel Bridge No. 1	L. Sum	-	1	1
Non-shrink Grout	Cu. Ft.	-	38.6	38.6

\* Includes repairs shown on sheet 23 of 32.



**LOCATION SKETCH**



*Rachel L. Mertz* 3/21/2022  
**RACHEL L. MERTZ**  
 EDWARDSVILLE, ILLINOIS  
 ILLINOIS LICENSED STRUCTURAL  
 ENGINEER NO. 081-006526  
 EXPIRES 11/30/2022

(Seal applies to sheets 14-22 of 32)

**GENERAL ELEVATION  
 GATEWAY BRIDGE  
 OVER MISSISSIPPI RIVER (PUBLIC WATER)  
 F.A.P. ROUTE 309 (US 30) - SECTION (7B)BRR  
 WHITESIDE COUNTY, IL AND  
 CLINTON COUNTY, IA  
 STATION 19+37.26  
 STRUCTURE NO. 098-6003**

MODEL: Sheet  
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	CHECKED - RLM	REVISED -
PLOT SCALE =	DRAWN - AEC	REVISED -
PLOT DATE = 3/21/2022	CHECKED - RLM	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**GENERAL ELEVATION  
 S.N. 098-6003 GATEWAY BRIDGE OVER MISSISSIPPI RIVER**

SHEET 1 OF 9 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
309	(7B)BRR	WHITESIDE	32	14
CONTRACT NO. 64J47				

ILLINOIS FED. AID PROJECT

GENERAL NOTES

Fasteners shall be ASTM A325 Type 1, mechanically galvanized bolts. Bolts 7/8 in. Ø, holes 15/16 in. Ø, unless otherwise noted.

All structural steel shall be AASHTO M270 Grade 36.

No field welding is permitted except as specified in the contract documents.

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 at the unit price bid for the work.

The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.

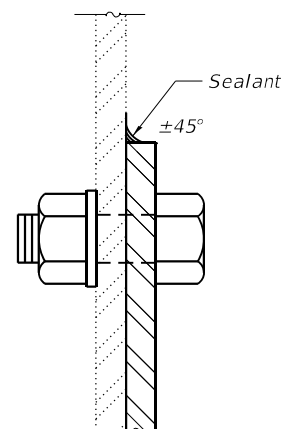
Cleaning and painting of the existing structural steel shall be as specified in the special provisions for Cleaning and Painting Existing Steel Structures. For defined limits of the required painting, see Sheet 8. The color of the final finish coat shall be Gray, Munsell No. 5B 7/1. The finish coat shall be fully cured in accordance with the manufacturer's instructions prior to placing non-shrink grout.

Existing structural steel that will be in contact with new structural steel shall be cleaned and painted in accordance with the special provision for Cleaning and Painting Contact Surface Areas of Existing Steel Structures for primary connections. The primer shall be fully cured in accordance with the manufacturer's instructions prior to connecting new steel to existing steel.

The Organic Zinc Rich Primer / Epoxy / Urethane Paint System shall be used for painting of new structural steel except where otherwise noted. The entire system shall be shop applied, with the exception of the exterior surfaces, masked off connection surfaces, field installed fasteners and damaged areas, all of which shall be touched up in the field. The color of the final finish coat shall be Blue, Munsell No. 10B 3/6. See Article 506 of the Standard Specifications for cleaning and painting requirements. Cost included with Structural Steel Repair.

Gaps between the existing steel and the new steel angles and/or repair plates, shall be sealed with an approved polyurethane sealant. The sealant shall be compatible with the proposed paint system and shall be submitted to the Engineer for approval prior to use. All costs associated with the installation of the sealant shall be included with the cost for Structural Steel Repair.

The Contractor shall perform the work with care, so that any materials which are to remain in place shall not be damaged. If the Contractor damages any materials which are to remain in place, the damaged materials shall be replaced or repaired in a manner satisfactory to the Engineer at the expense of the Contractor.



2021 NBIS REFERENCE TABLE

10/04/2021 NBIS Inspection Deficiency Item No.	Location	Sheet No.
71	Tower A, Base of North Leg	6
72	Tower A, Base of South Leg	6
115	Tower B, Base of North Leg	6
116	Tower B, Base of South Leg	6
72	Tower A, South Leg, Bottom of Ladder	6
171	Tower B, South Leg, Bottom of Ladder	6

DETAIL 1 - JOINT SEALANT

STRUCTURAL STEEL REPAIR GENERAL NOTES

Repair plates and repair angles may require field adjustment to fit actual as-built conditions. Cost included in Structural Steel Repair.

Repair plates and repair angles have been sized per available existing plan information. Bolt layout for replacement of existing fasteners with new bolts in existing holes are also based on existing plan information. Dimensions shall be field verified to confirm.

The as-designed repair details do not require temporary support for structural members. If additional fasteners need to be removed beyond those shown, the Contractor shall submit a procedure for review and approval by the Engineer. If necessary, the Contractor shall provide temporary support for members due to the additional fastener removal.

Joint sealant shall be compatible with the proposed paint system and shall be submitted to the Engineer for approval prior to use. All costs associated with the installation of the sealant shall be included in Structural Steel Repair.

STRUCTURAL STEEL REPAIR PROCEDURES

The Contractor will be allowed to remove rivets and replace with temporary high-strength bolts in advance of repair plate and/or angle installation. Flame cutting for rivet removal is not permitted.

Contractor shall install repair plates one at a time at each tower leg.

For each individual repair plate or angle, the Contractor may remove all rivets to be replaced at the same time to facilitate fit-up and match-marking of holes.

Bolt holes will not be left open overnight. The completion of the installation of all plates and angles at a repair location at the end of each day is not required.

The cut edges of existing steel members to remain in place shall be ground smooth to a roughness average (Ra) of 250 µin. or less. The grinding operation should not gouge the tower components that will remain in place.

Upon completion of repairs and coating touch-up, joint sealant shall be installed all around perimeter of plys between existing steel and the new steel angles and/or plates per Detail 1 and as directed by the Engineer. After the sealant has cured in accordance with the manufacturer's written product data sheet, a stripe finish shall be applied over the sealant.

CONSTRUCTION SEQUENCE

Traffic will be maintained utilizing stage construction. Repairs at both towers may be performed simultaneously or independently to the legs on the same side as the closure.

The required construction sequence for repair at each leg is as follows:

- Partially remove upper and lower stiffening angles and install Repair Plates PL1. Install new tapped bolts in vacated holes in base plate. Removal and replacement at each repair plate location shall be completed one at a time.
- Remove side plates and angles and install Repair Plates PL2 and Repair Plates PL3. Removal and replacement at each side shall be completed one at a time.
- Cut out drain holes. Remove lower portion of ladder and install Repair Angles L1. This work may also be performed at any time during Steps 1 or 2.
- Clean and paint interior surfaces of tower.
- Place layer of non-shrink grout and install sealant around perimeter after grout has cured.
- Install screen at drain hole on outside face of tower leg.

MODEL: Sheet  
FILE NAME: L:\Modjeski\Shared Files\Projects\DOT\IN 4150.05 - Gateway Bridge Repairs\CADD\0986033-457147-002-General Notes.dgn



USER NAME =	DESIGNED - JAD	REVISED -
PLOT SCALE =	CHECKED - RLM	REVISED -
PLOT DATE = 3/21/2022	DRAWN - AEC	REVISED -
	CHECKED - RLM	REVISED -

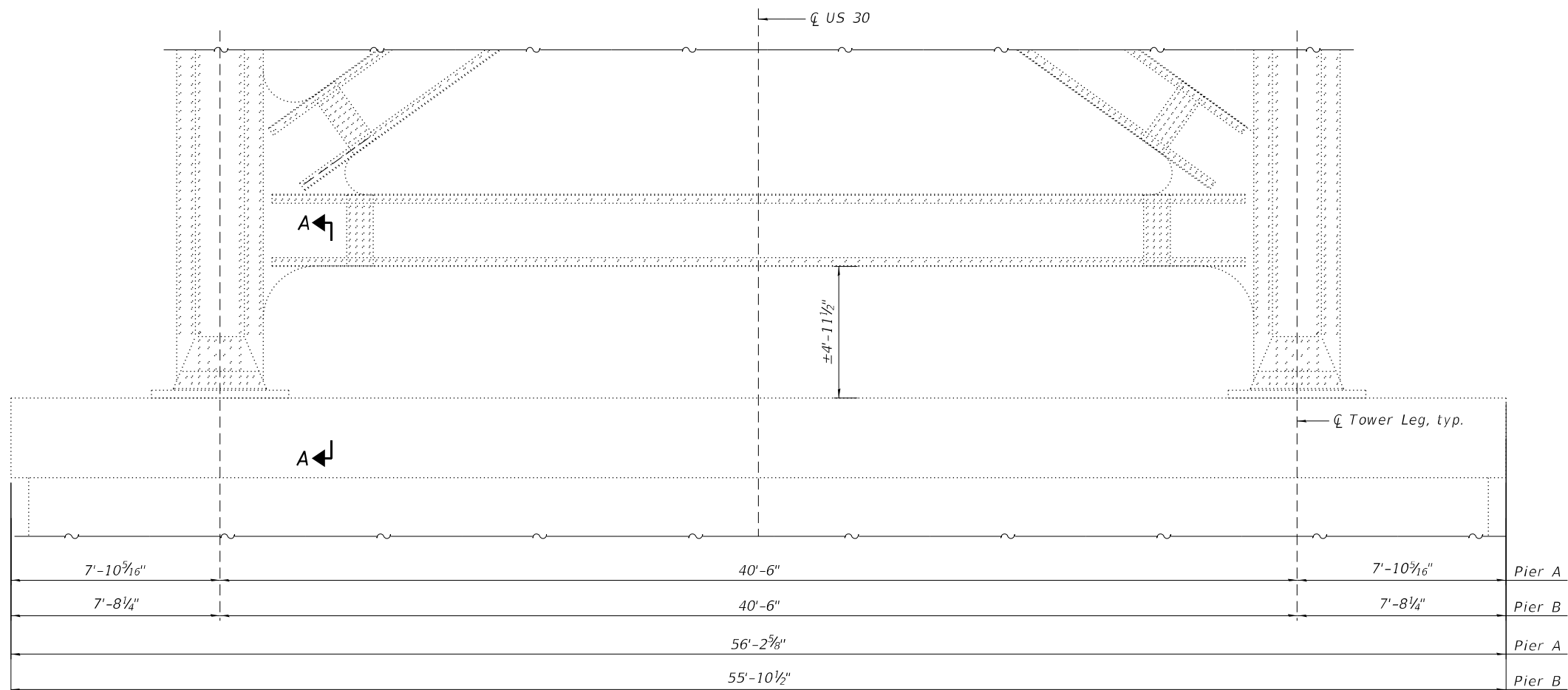
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES  
S.N. 098-6003 GATEWAY BRIDGE OVER MISSISSIPPI RIVER

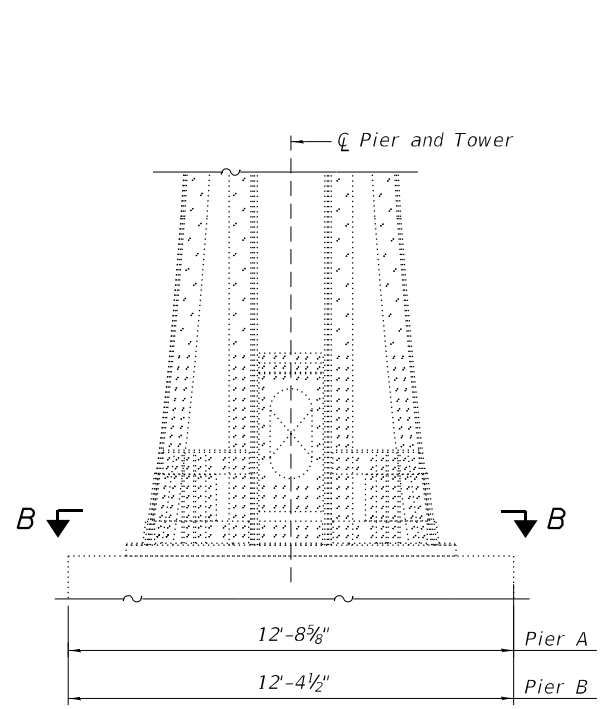
SHEET 2 OF 9 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
309	(7B)BRR	WHITESIDE	32	15
CONTRACT NO. 64J47				
ILLINOIS FED. AID PROJECT				

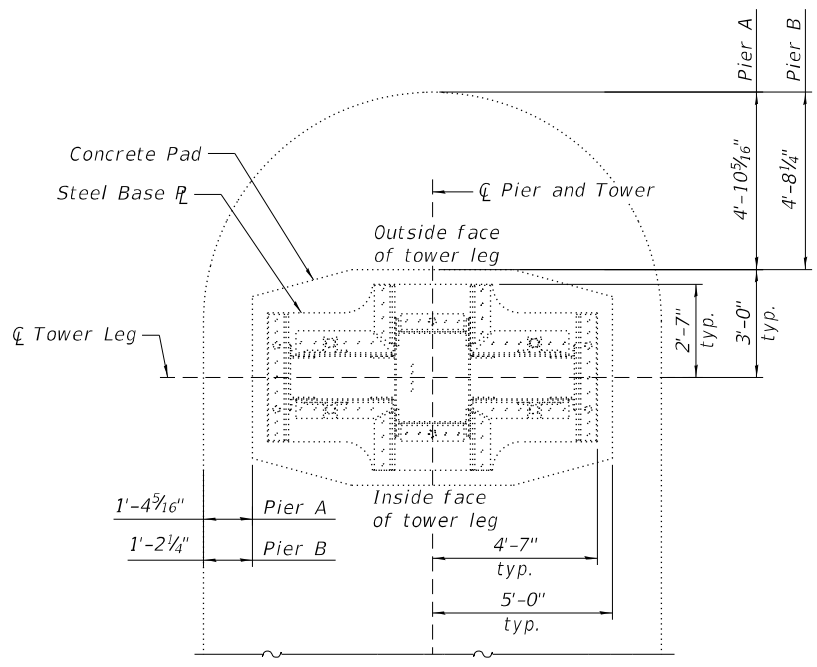
MODEL: Sheet  
 FILE NAME: L:\Modjeski\Shared Files\Projects\DOT\IN 4150.05 - Gateway Bridge Tower Repairs\CADD\0986033-67147-00>Pier and Tower Legs.dgn



**PARTIAL ELEVATION - PIER AND TOWER**



**VIEW A-A**



**SECTION B-B**



USER NAME =	DESIGNED - JAD	REVISED -
	CHECKED - RLM	REVISED -
PLOT SCALE =	DRAWN - AEC	REVISED -
PLOT DATE = 3/21/2022	CHECKED - RLM	REVISED -

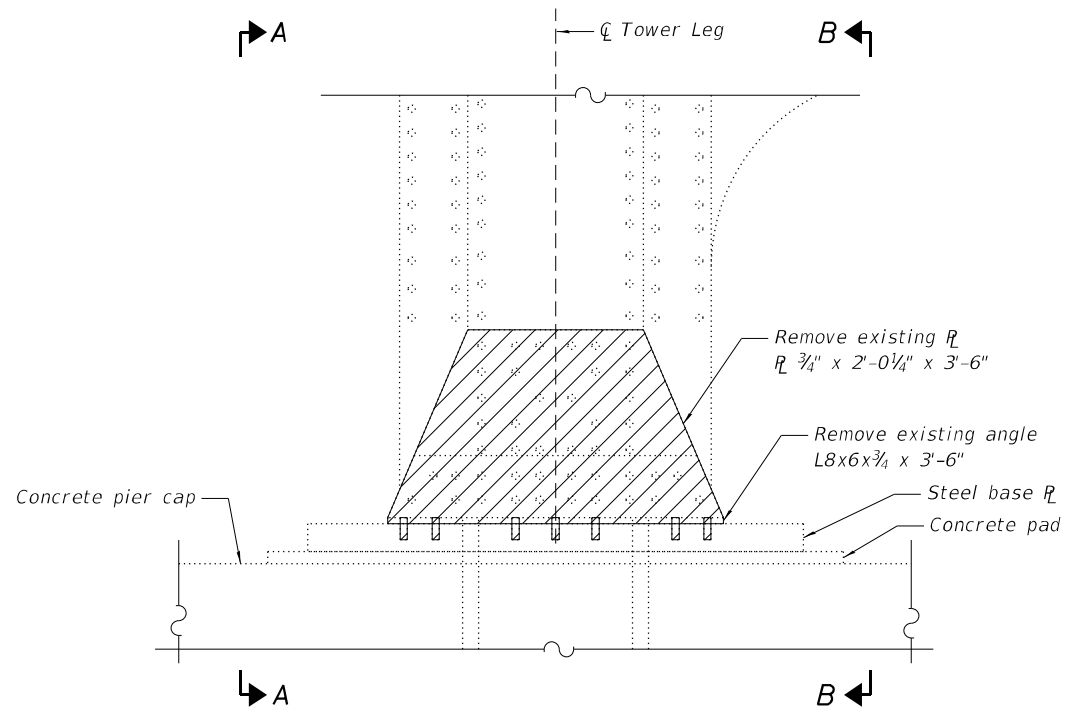
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PIER AND TOWER LEGS - ELEVATION AND SECTION VIEWS  
 S.N. 098-6003 GATEWAY BRIDGE OVER MISSISSIPPI RIVER**

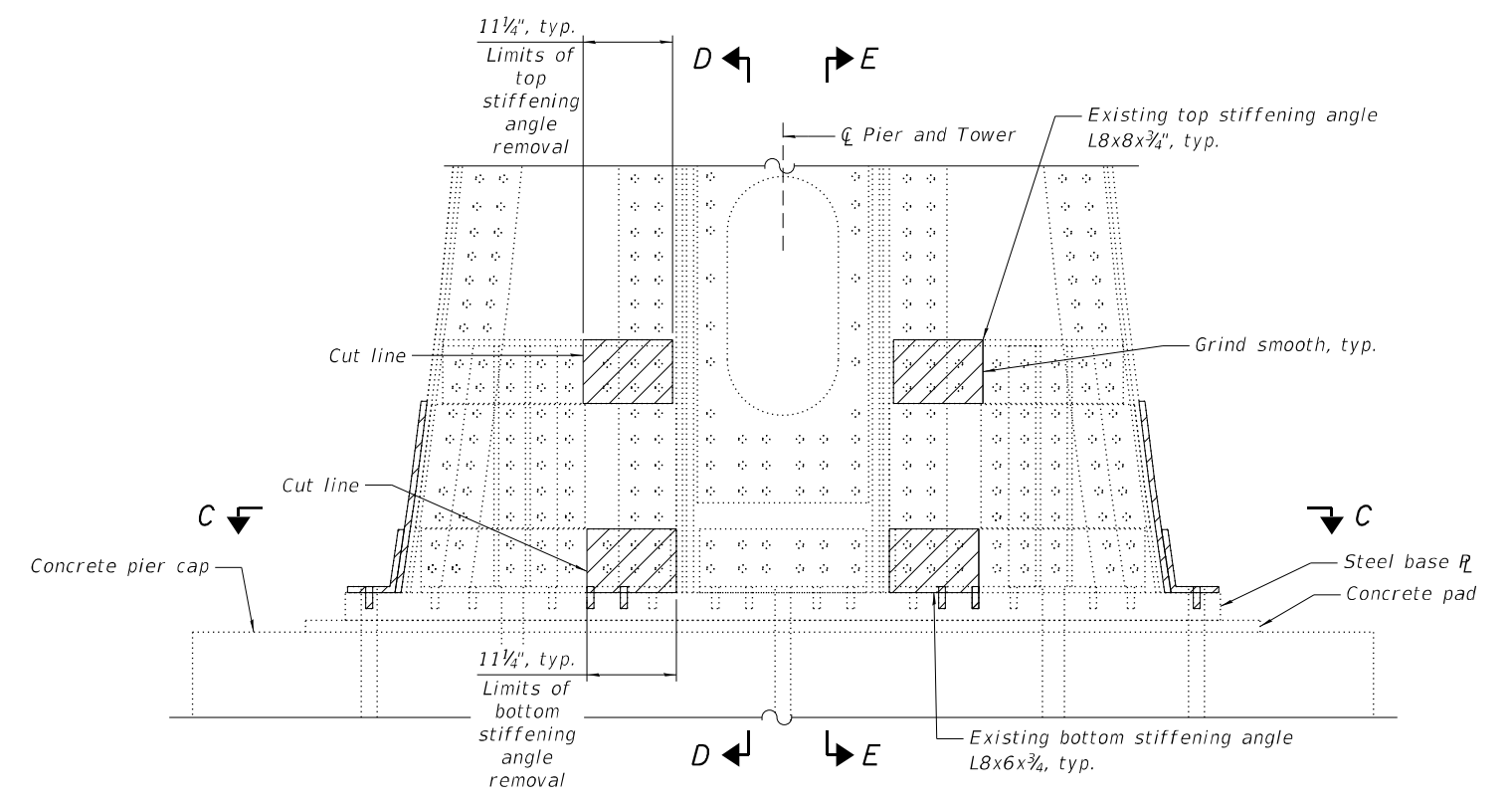
F.A.P. RTE. 309	SECTION (7B)BRR	COUNTY WHITESIDE	TOTAL SHEETS 32	SHEET NO. 16
			CONTRACT NO. 64J47	
		ILLINOIS FED. AID PROJECT		



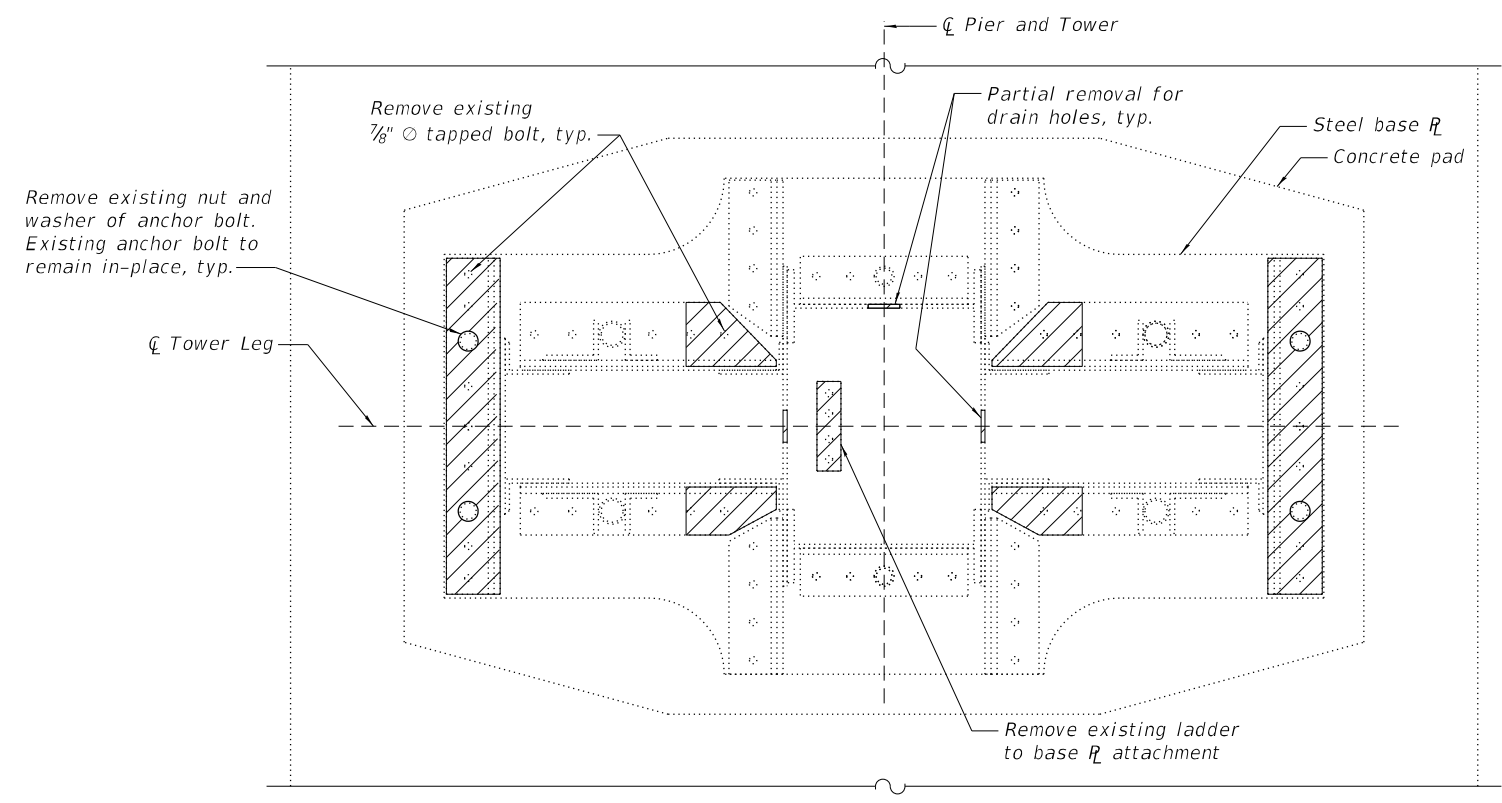
MODEL: Sheet  
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**PARTIAL ELEVATION - TOWER LEG**  
 Typical east and west face of tower leg.



**VIEW B-B**



**SECTION C-C**

**Notes:**  
 See Sheet 5 for View A-A, Section D-D, Section E-E and Drain Hole Detail.  
 The cost of all work required to remove or trim existing angles, plates, fasteners, nuts, and washers shall be included in the cost of Structural Steel Repair.



USER NAME =	DESIGNED - JAD	REVISED -
	CHECKED - RLM	REVISED -
PLOT SCALE =	DRAWN - AEC	REVISED -
PLOT DATE = 3/21/2022	CHECKED - RLM	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

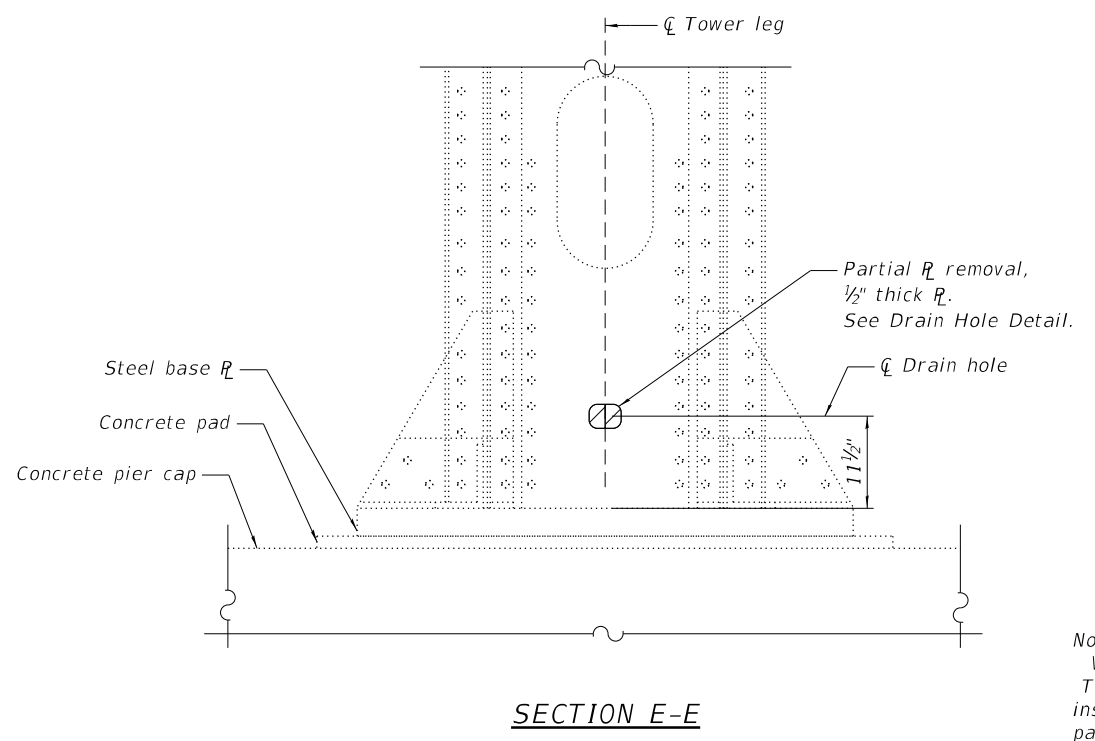
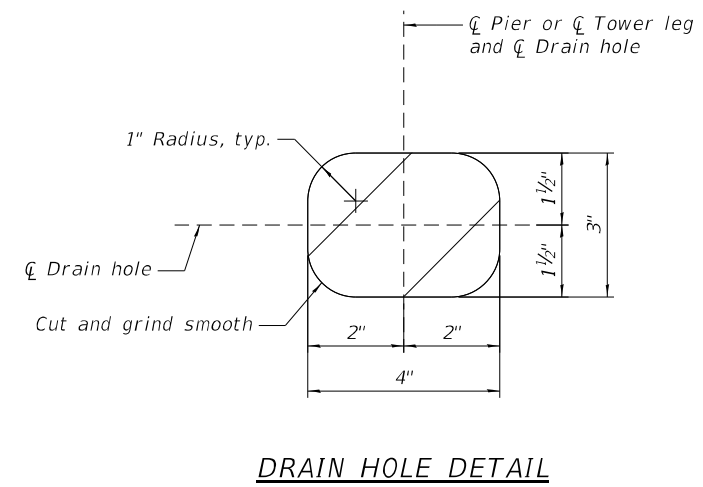
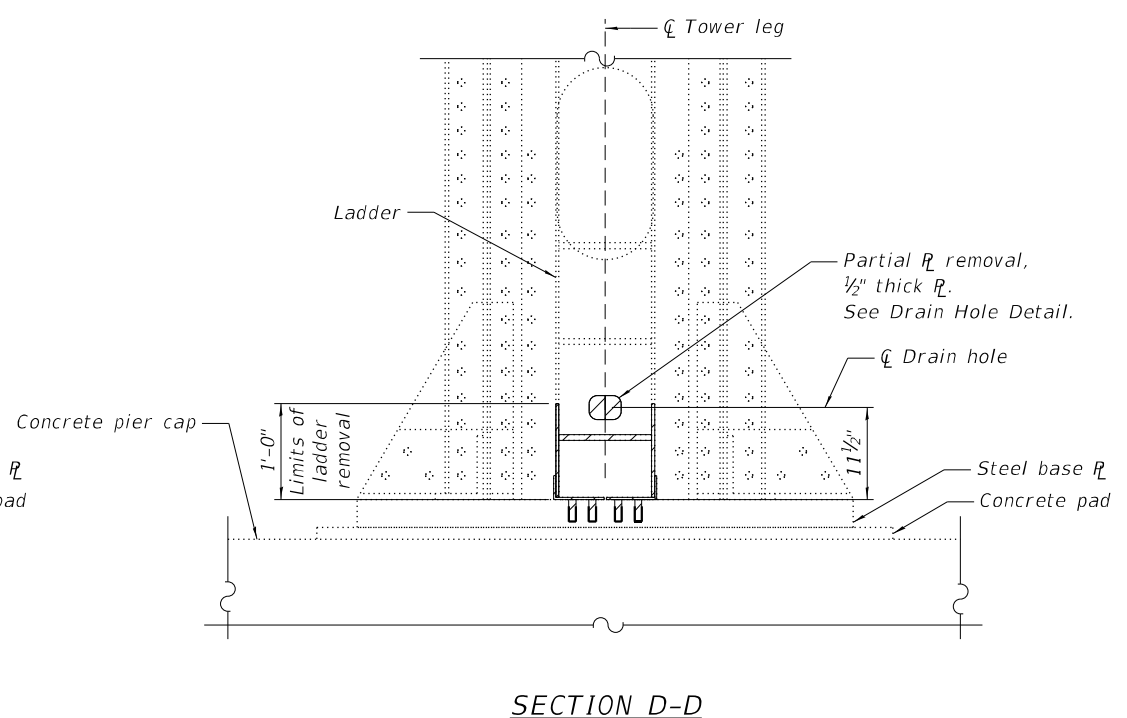
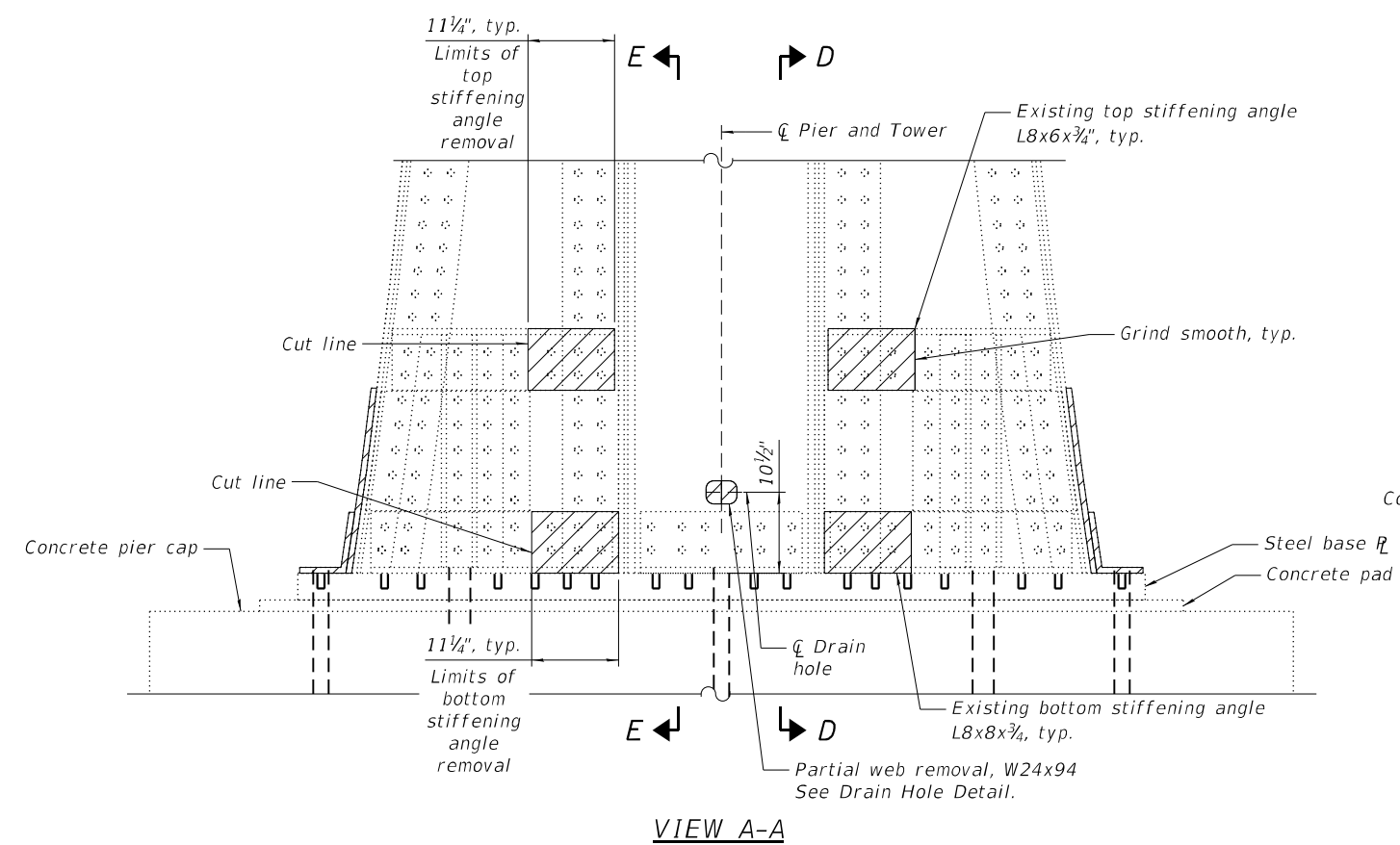
**STEEL REMOVAL DETAILS - 1**  
**S.N. 098-6003 GATEWAY BRIDGE OVER MISSISSIPPI RIVER**

SHEET 4 OF 9 SHEETS

F.A.P. RTE. = 309	SECTION = (7B)BRR	COUNTY = WHITESIDE	TOTAL SHEETS = 32	SHEET NO. = 17
CONTRACT NO. 64J47				

ILLINOIS FED. AID PROJECT

MODEL: Sheet  
 FILE NAME: L:\Modjeski\Shared Files\Projects\DOT\IN 4150.05 - Gateway Bridge Tower Repairs\CADD\0986033-67147-005-Steel Removal Details-2.dgn



**Notes:**  
 Work this sheet with Sheet 4.  
 The edges of the drain holes shall be inspected using dye penetrant or magnetic particle methods. Any cracks found shall be identified and reported to the Bureau of Bridges and Structures for further disposition.  
 Cost for partial steel removal, including grinding and testing, is included with Structural Steel Repair.



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PLOT DATE = 3/21/2022	CHECKED - RLM	REVISED -

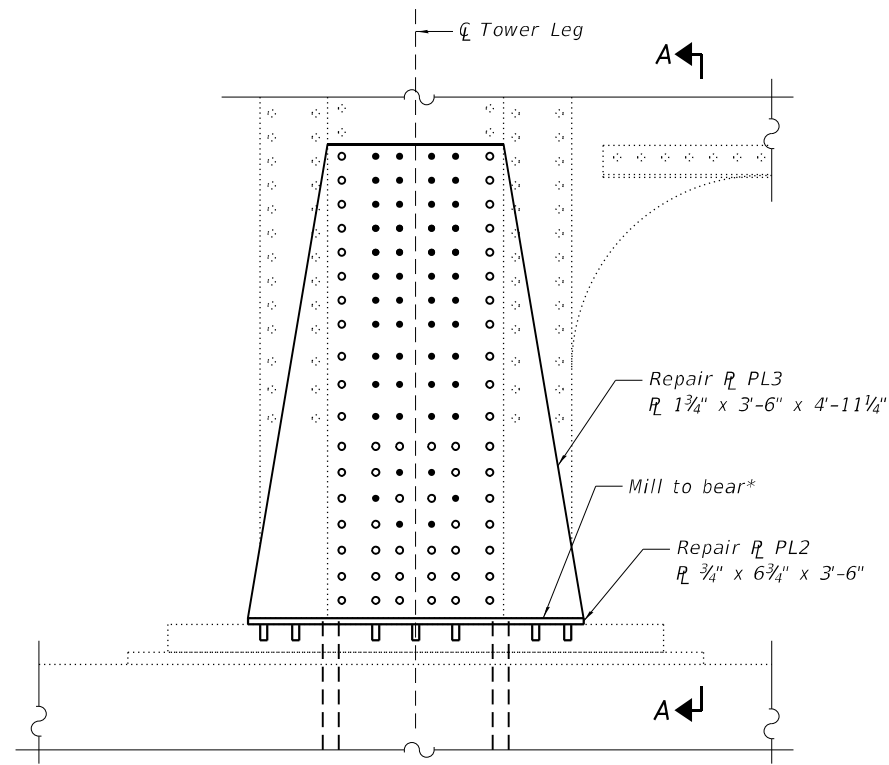
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

STEEL REMOVAL DETAILS - 2  
 S.N. 098-6003 GATEWAY BRIDGE OVER MISSISSIPPI RIVER

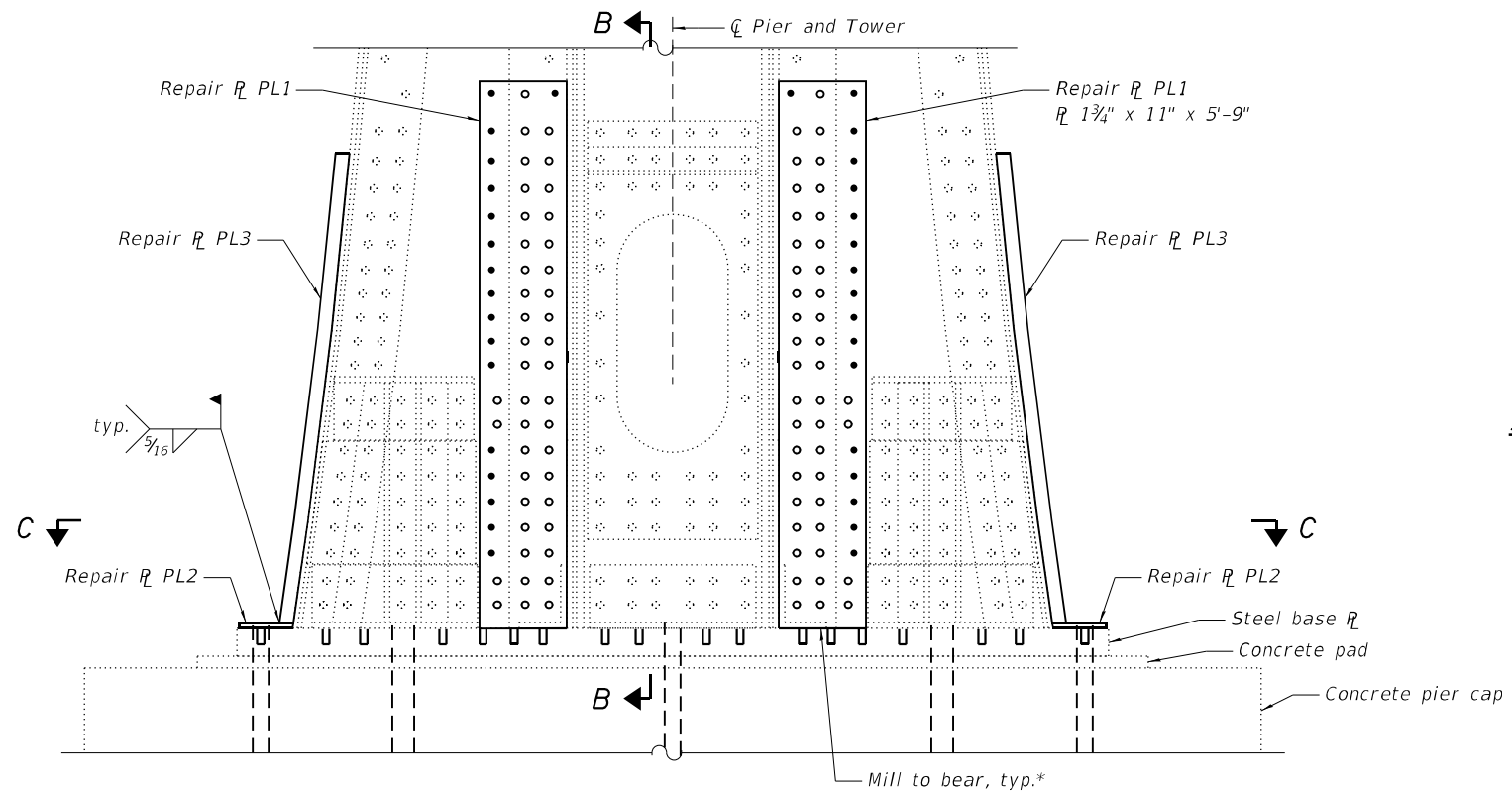
SHEET 5 OF 9 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
309	(7B)BRR	WHITESIDE	32	18
CONTRACT NO. 64J47				

ILLINOIS FED. AID PROJECT

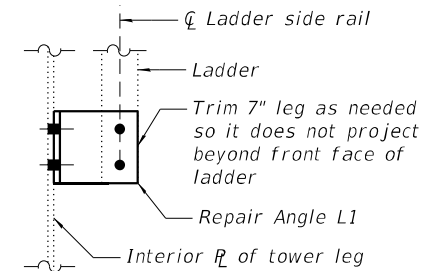


**PARTIAL ELEVATION - TOWER LEG**  
Typical east and west faces of tower leg.

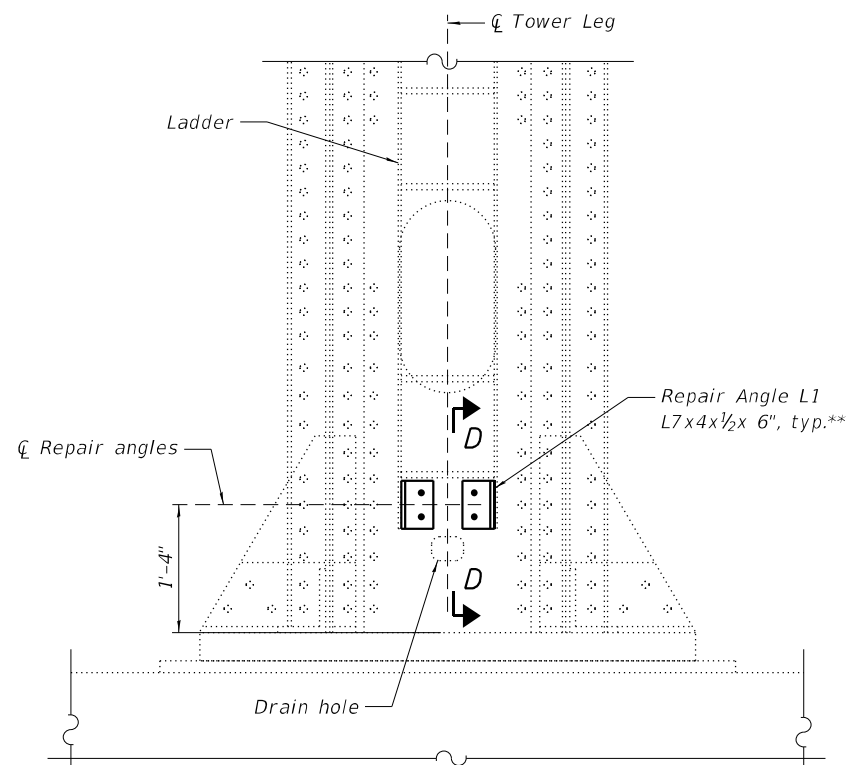


**VIEW A-A**  
Inside face of tower leg shown.  
Outside face of tower leg similar.

\* Repair PL shall fit within 10/1000" for minimum 75% of bearing area.

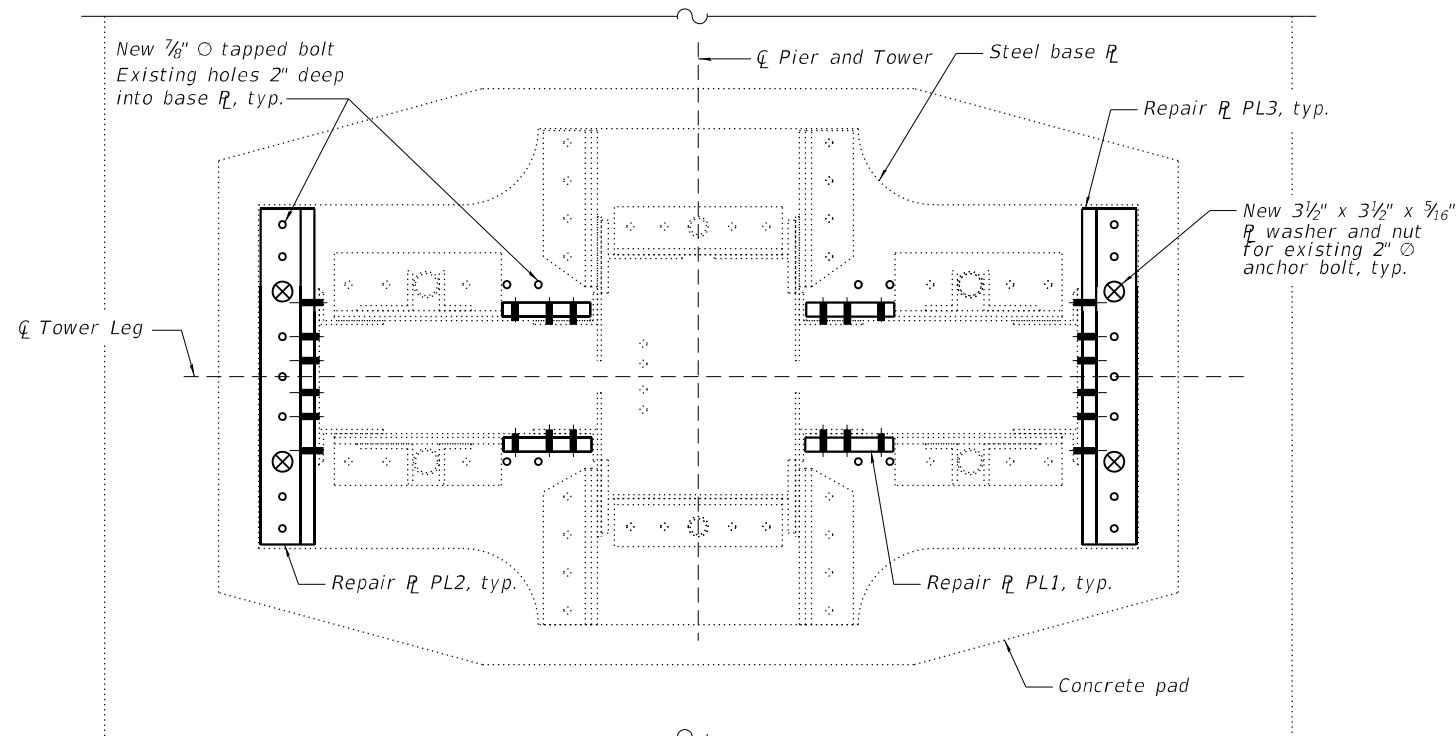


**SECTION D-D**



**SECTION B-B**

\*\* Repair angles for connection of the ladder to the tower leg are only required in the legs of Tower A. Existing ladder connection angles in the legs of Tower B shall remain in place.



**SECTION C-C**

**LEGEND**

- ⊙ Existing fasteners to remain
- New bolt in new hole (shop or field drilled)
- Replace existing fastener with new bolt in existing holes (holes in new material will be field drilled using existing member as a template)
- ⊗ New nut and washer for existing 2" ⌀ anchor bolt (holes in new material will be field drilled using existing member as a template)

**BILL OF MATERIAL**

Item	Unit	Total
Structural Steel Repair	Pound	16,150

Notes:  
See Sheet 7 for repair plate and angle details.  
New tapped bolts and anchor bolt nuts and washers shall be galvanized according to AASHTO M111 or M232 as applicable.

MODEL: Sheet  
FILE NAME: L:\Modjeski\Shared Files\Projects\DOT\IN 4150.05 - Gateway Bridge Repairs\CADD\0986033-67147-006-Steel Repair Details-1.dgn



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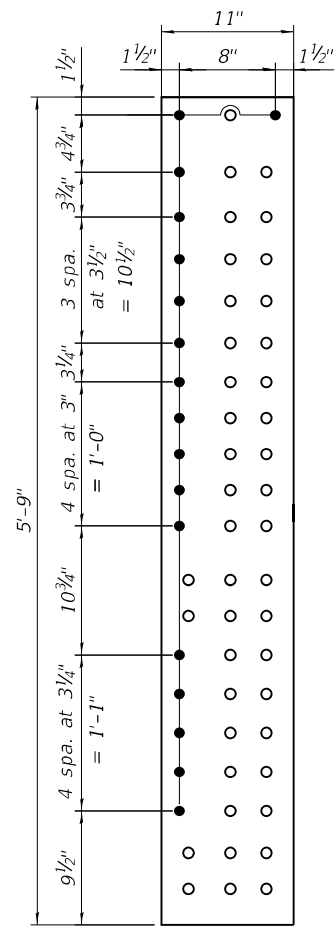
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**STEEL REPAIR DETAILS - 1  
S.N. 098-6003 GATEWAY BRIDGE OVER MISSISSIPPI RIVER**

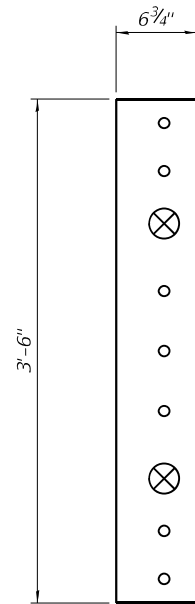
SHEET 6 OF 9 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
309	(7B)BRR	WHITESIDE	32	19
CONTRACT NO. 64J47				
ILLINOIS FED. AID PROJECT				

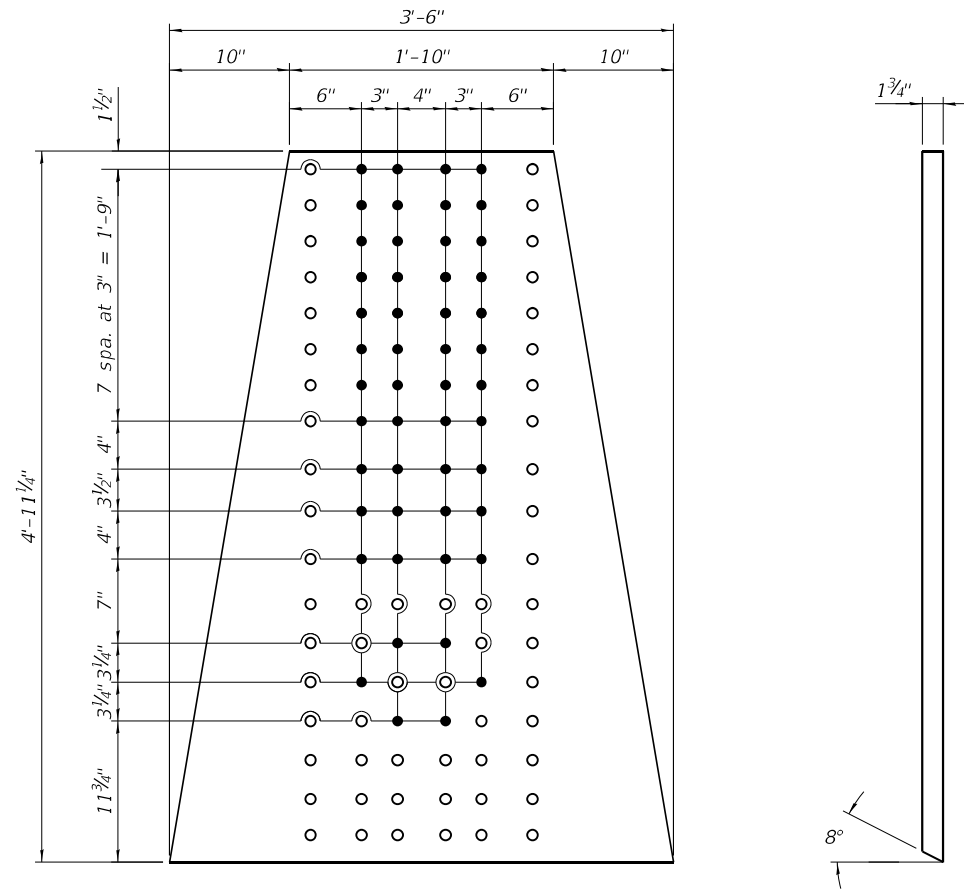
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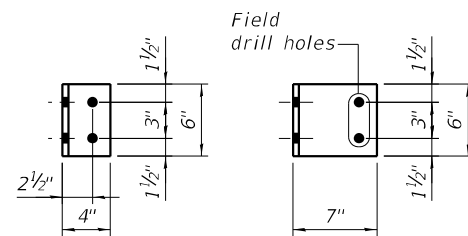
**REPAIR PLATE PL1**  
 PL 1 3/4" x 11" x 5'-9"  
 16 Required



**REPAIR PLATE PL2**  
 PL 3/4" x 6 3/4" x 3'-6"  
 8 Required



**REPAIR PLATE PL3**  
 PL 1 3/4" x 3'-6" x 4'-11 1/4"  
 8 Required



**REPAIR ANGLE L1**  
 L7x4x1/2 x 6"  
 4 Required

**LEGEND**

- New bolt in new hole (shop or field drilled)
- Replace existing fastener with new bolt in existing holes (holes in new material will be field drilled using existing member as a template)
- ⊗ New nut and washer for existing 2" O anchor bolt (holes in new material will be field drilled using existing member as a template)

Note:  
 Work this sheet with Sheet 6.



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PLOT SCALE =	DRAWN - AEC	REVISED -
PLOT DATE = 3/21/2022	CHECKED - RLM	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

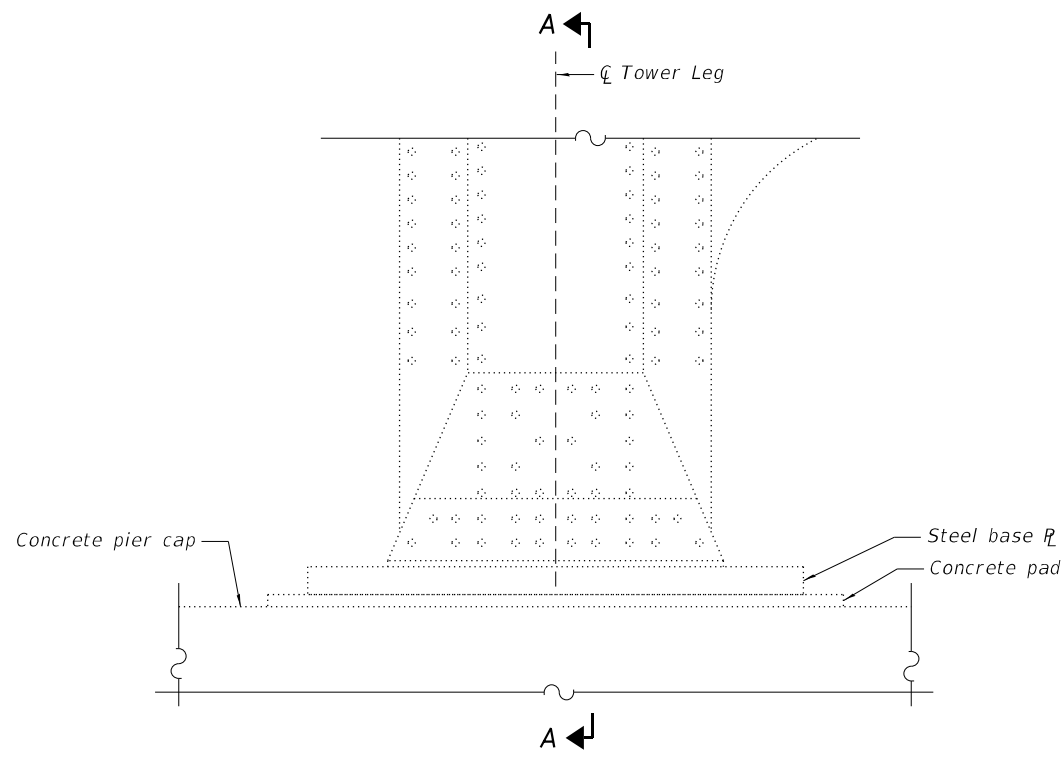
STEEL REPAIR DETAILS - 2  
 S.N. 098-6003 GATEWAY BRIDGE OVER MISSISSIPPI RIVER

SHEET 7 OF 9 SHEETS

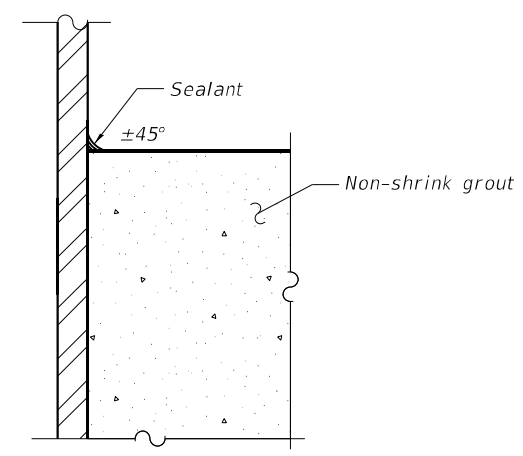
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CONTRACT NO. 64J47				

ILLINOIS FED. AID PROJECT

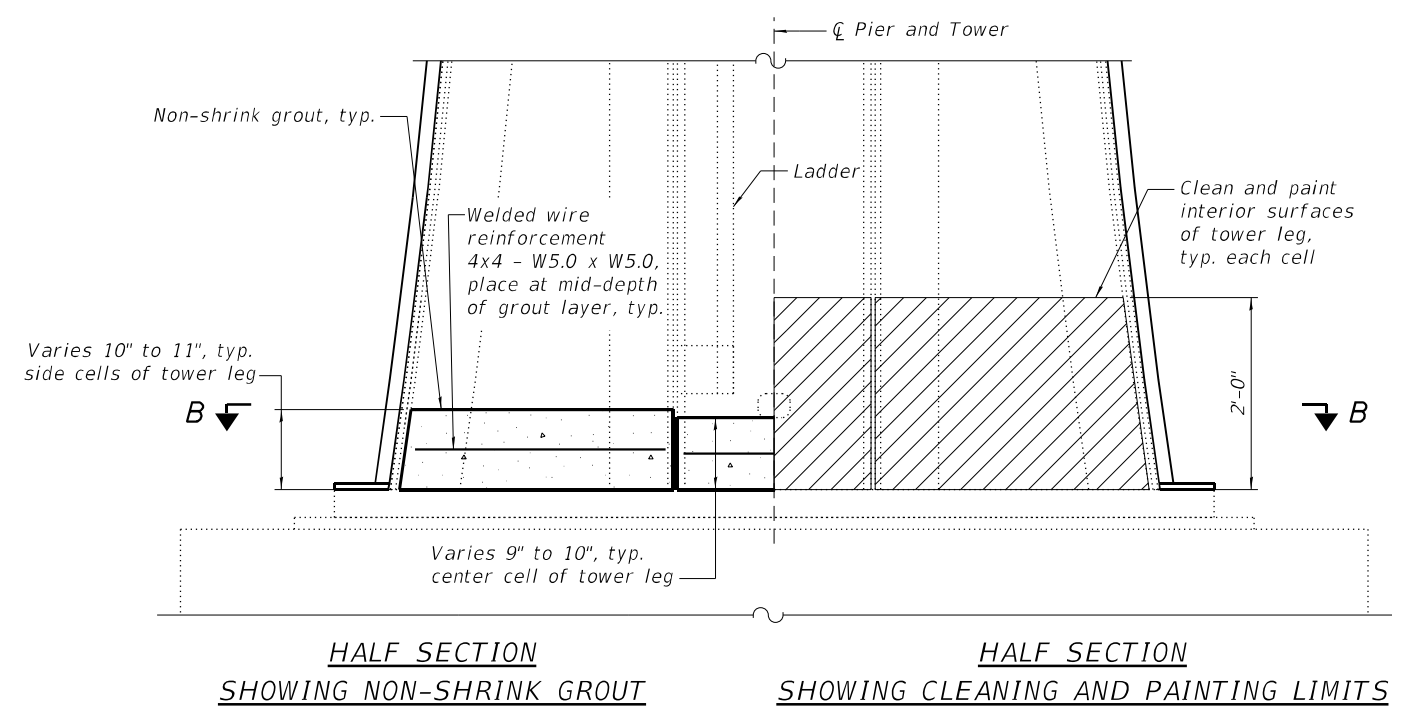
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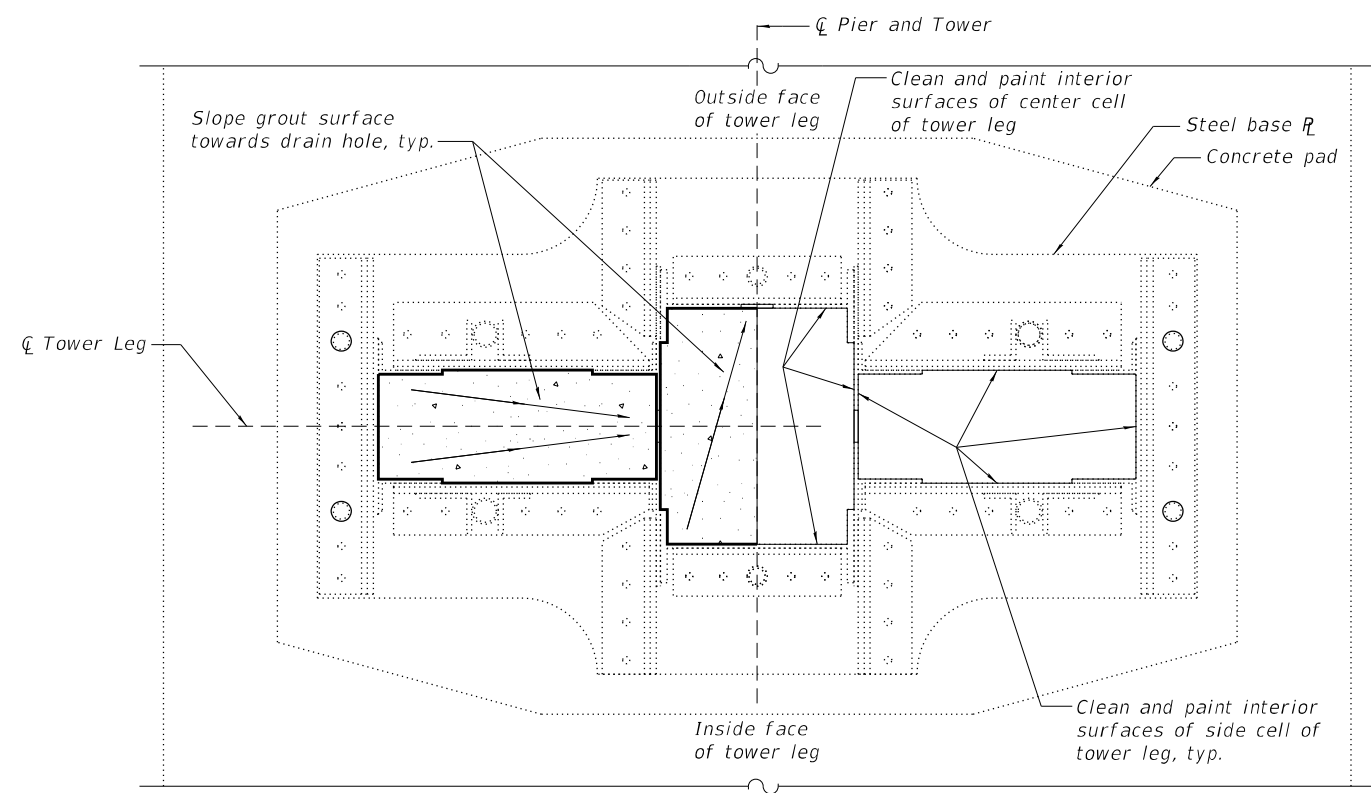
**PARTIAL ELEVATION - TOWER LEG**  
 Typical east and west face of tower leg.



**DETAIL 1 - SEALANT ALONG GROUT PERIMETER**



**SECTION A-A**  
 HALF SECTION SHOWING NON-SHRINK GROUT  
 HALF SECTION SHOWING CLEANING AND PAINTING LIMITS



**SECTION B-B**  
 HALF SECTION SHOWING NON-SHRINK GROUT  
 HALF SECTION SHOWING CLEANING AND PAINTING LIMITS

**BILL OF MATERIAL**

Item	Unit	Total
Welded Wire Reinforcement	Sq. Yd.	6
Cleaning and Painting Steel Bridge No. 1	L. Sum	1
Non-shrink Grout	Cu. Ft.	38.6

**Notes:**  
 After the non-shrink grout has cured, caulk the perimeter of the grout at the interface with the steel as shown in Detail 1 with an elastomeric joint sealant such as Sikaflex 1A, or an approved equal.  
 The cost of all labor and materials needed to caulk the perimeter of the grout shall be included in the contract unit price for Non-shrink Grout and will not be measured separately for payment.



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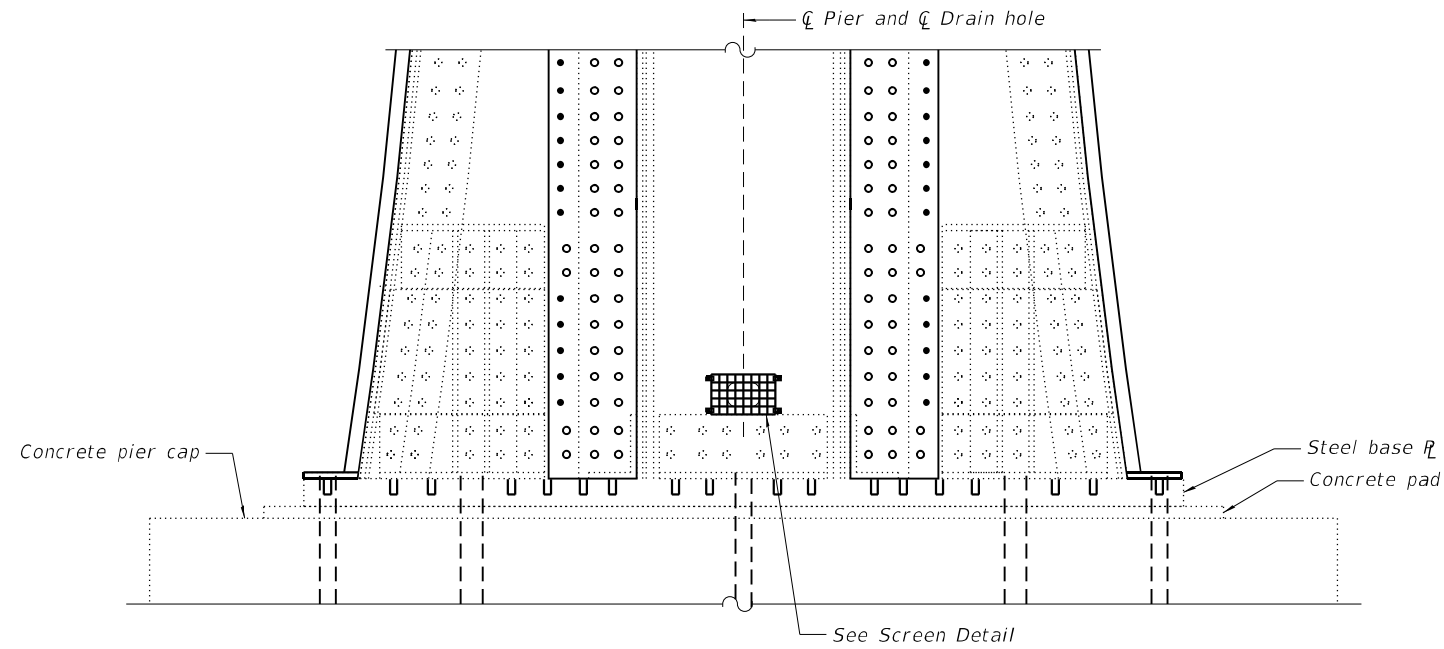
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**CONCRETE REPAIR DETAILS**  
**S.N. 098-6003 GATEWAY BRIDGE OVER MISSISSIPPI RIVER**

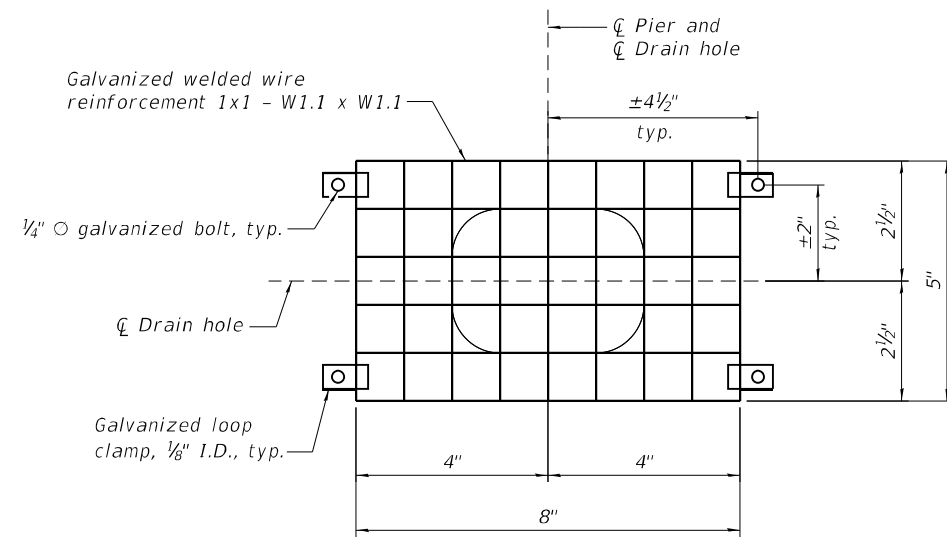
SHEET 8 OF 9 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
309	(7B)BRR	WHITESIDE	32	21
CONTRACT NO. 64J47				

ILLINOIS FED. AID PROJECT



**PARTIAL ELEVATION - TOWER LEG**  
Outside face of tower leg shown.



**SCREEN DETAIL**

**Notes:**  
All bolts, nuts, washers, clamps, and welded wire reinforcement shall be galvanized according to AASHTO M111 or M232 as appropriate.  
The cost of all labor and materials needed to install the drain hole screen shall be included in the contract unit price for Structural Steel Repair and will not be measured separately for payment.

MODEL: Sheet  
FILE NAME: L:\Modjeski\Shared Files\Projects\DOT\IN 4150.05 - Gateway Bridge Repairs\CADD\0986033-67147-005-Screen Details.dgn



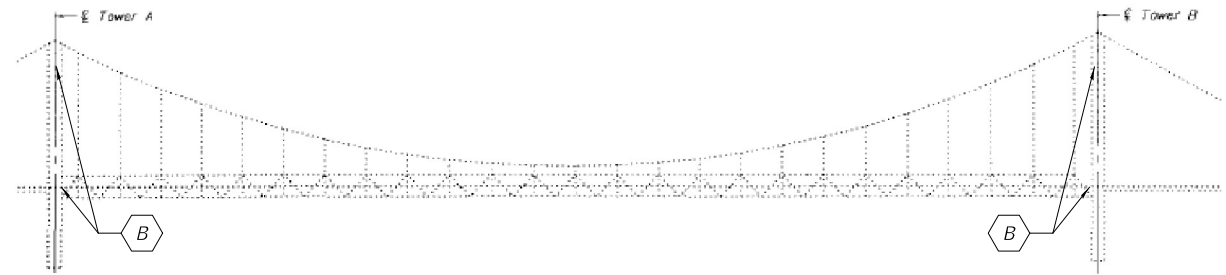
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	CHECKED - RLM	REVISED -
PLOT SCALE =	DRAWN - AEC	REVISED -
PLOT DATE = 3/21/2022	CHECKED - RLM	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SCREEN DETAILS  
S.N. 098-6003 GATEWAY BRIDGE OVER MISSISSIPPI RIVER**

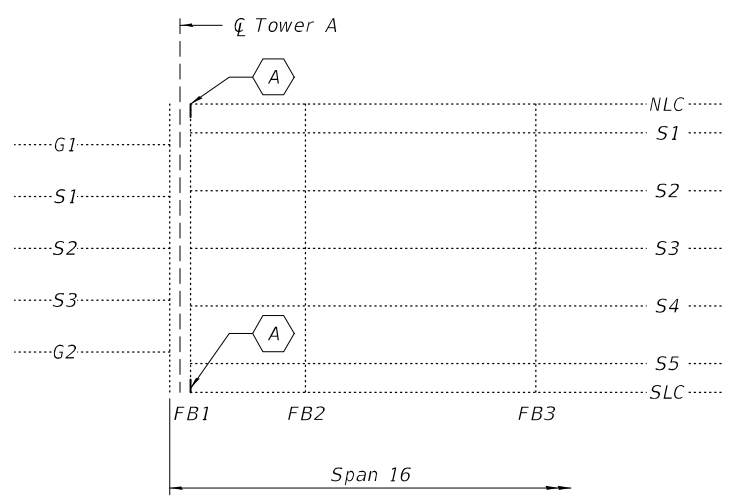
SHEET 9 OF 9 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
309	(7B)BRR	WHITESIDE	32	22
CONTRACT NO. 64J47				
ILLINOIS FED. AID PROJECT				



**ELEVATION**

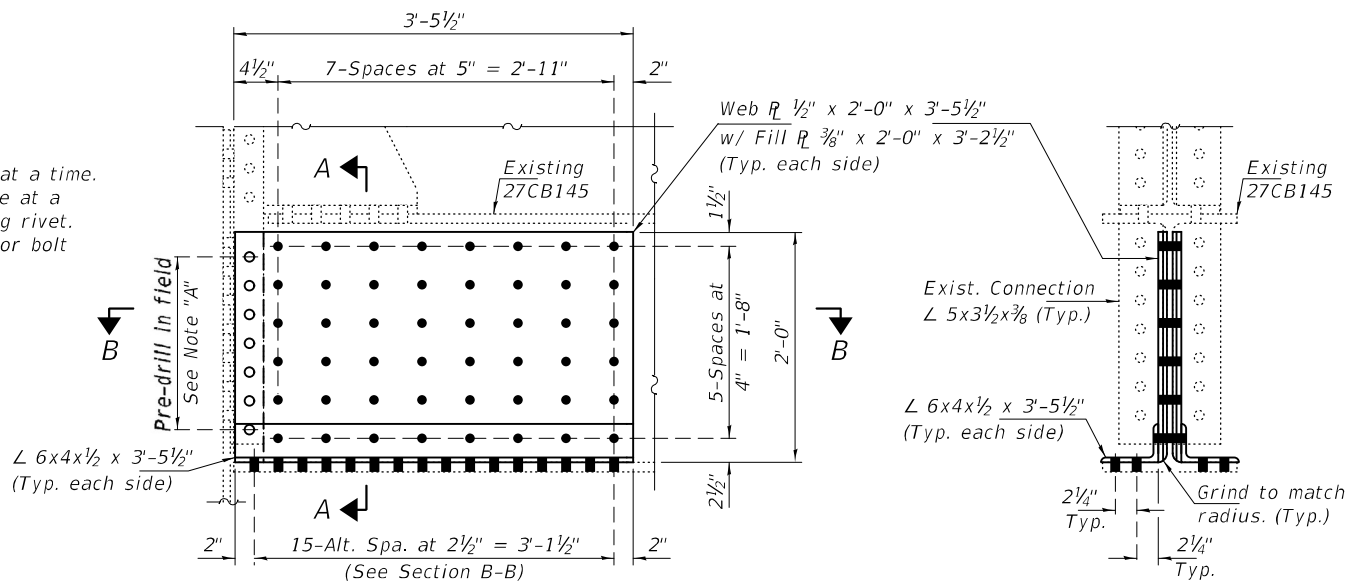
B - Tower Access Door Repair



**PARTIAL PLAN**

A - Floorbeam Repair

Note "A":  
 Web R's are to be installed one side at a time.  
 Existing rivets are to be replaced one at a time using new bolt to push out existing rivet.  
 At no time shall more than one rivet or bolt be removed from the Connection L.



**FLOOR BEAM 1 REPAIR ELEVATION**

(Typ. each end of Floorbeam 1, Span 16)  
 (2021 NBIS Item 194)

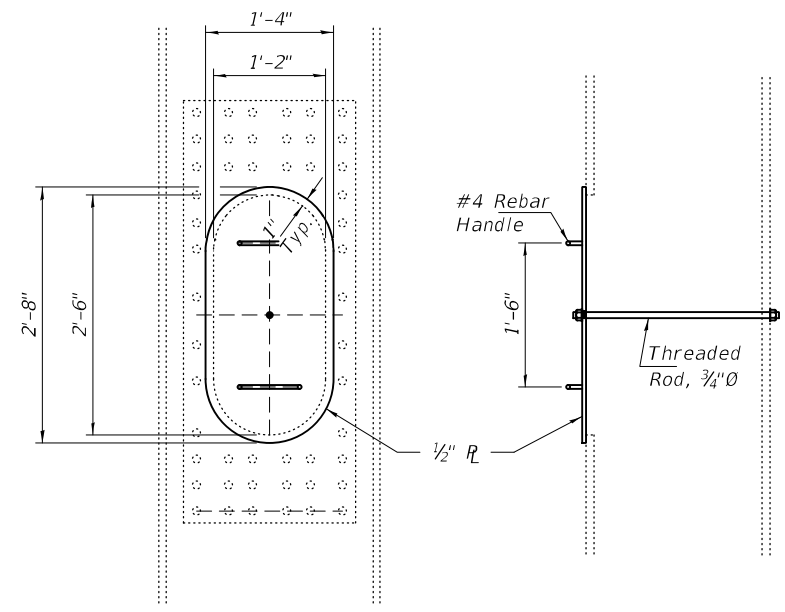
**SECTION A-A**

**SECTION B-B**



**EXISTING ACCESS DOOR PHOTO**

(For Information Only)



**ACCESS DOOR REPAIR**

**NOTES**

All structural steel shall conform to AASHTO Classification M-270 Gr. 36, unless otherwise noted.  
 Fasteners shall be high strength bolts. Bolts 3/4"Ø, open holes 1 3/16"Ø, unless otherwise noted.  
 All structural steel shall be shop painted with the inorganic zinc rich primer per AASHTO M300, Type 1. Cost included with Structural Steel Repair.  
 Existing structural steel that will be in contact with new structural steel shall be cleaned and painted prior to erection as required by the special provision "Cleaning and Painting Contact Surface Areas of Existing Steel Structures".  
 Cleaning & painting of all connections on this sheet shall meet the requirements for Primary Connections as specified in the special provision for "Cleaning and Painting Contact Surface Areas of Existing Steel Structures".



EXPIRES 11-30-2022  
 Seal applies to this sheet only.

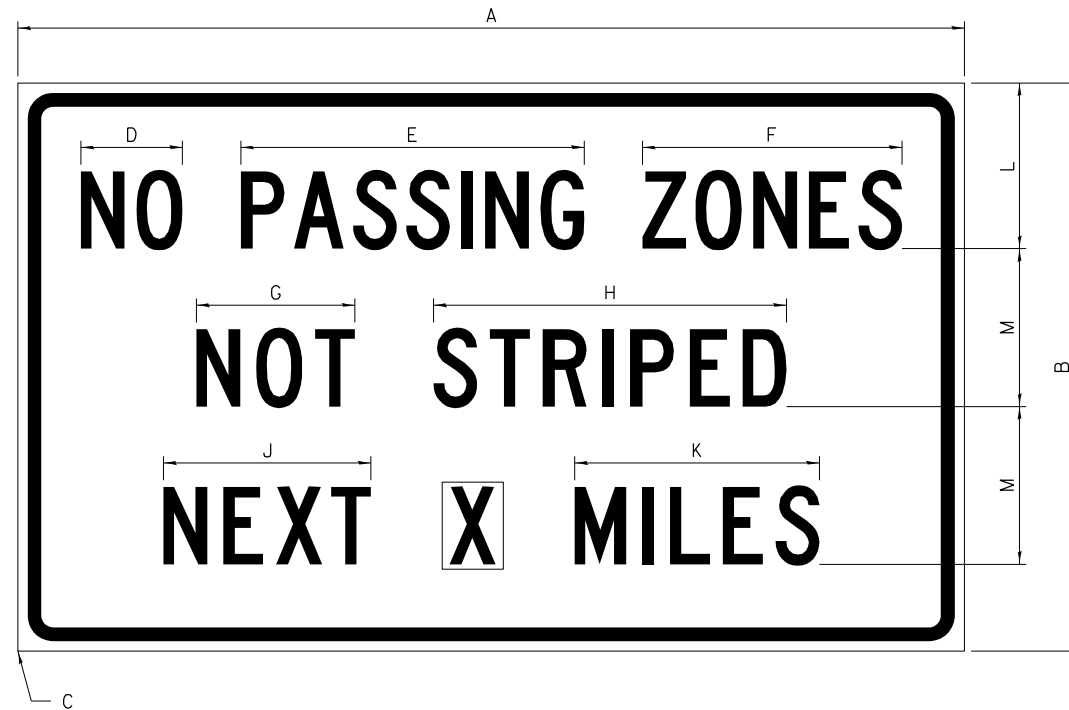
**BILL OF MATERIAL**

ITEM	UNIT	QUANTITY
Structural Steel Repair	Pound	2000

DESIGNED - Victor H. Veliz	EXAMINED - <i>Trig A. [Signature]</i>	DATE - MARCH 22, 2022	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>PARTIAL FRAMING PLAN AND ELEVATION</b> <b>FLOORBEAM 1 REPAIR &amp; TOWER ACCESS DOOR DETAILS</b> <b>SN 098-6003</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHECKED - Adrian T. Halloway	PASSED - <i>Jayme F. Schiff</i>	REVISED -			309	(7B) BRR	WHITESIDE	32	23
DRAWN - daburdell Steffen	ENGINEER OF BRIDGES AND STRUCTURES	REVISED -			CONTRACT NO. 64J37				
CHECKED - VHV ATH	ENGINEER OF STRUCTURAL SERVICES				ILLINOIS FED. AID PROJECT				

# WORK ZONE SIGN DETAILS

**ILLINOIS STANDARD G20-I100**



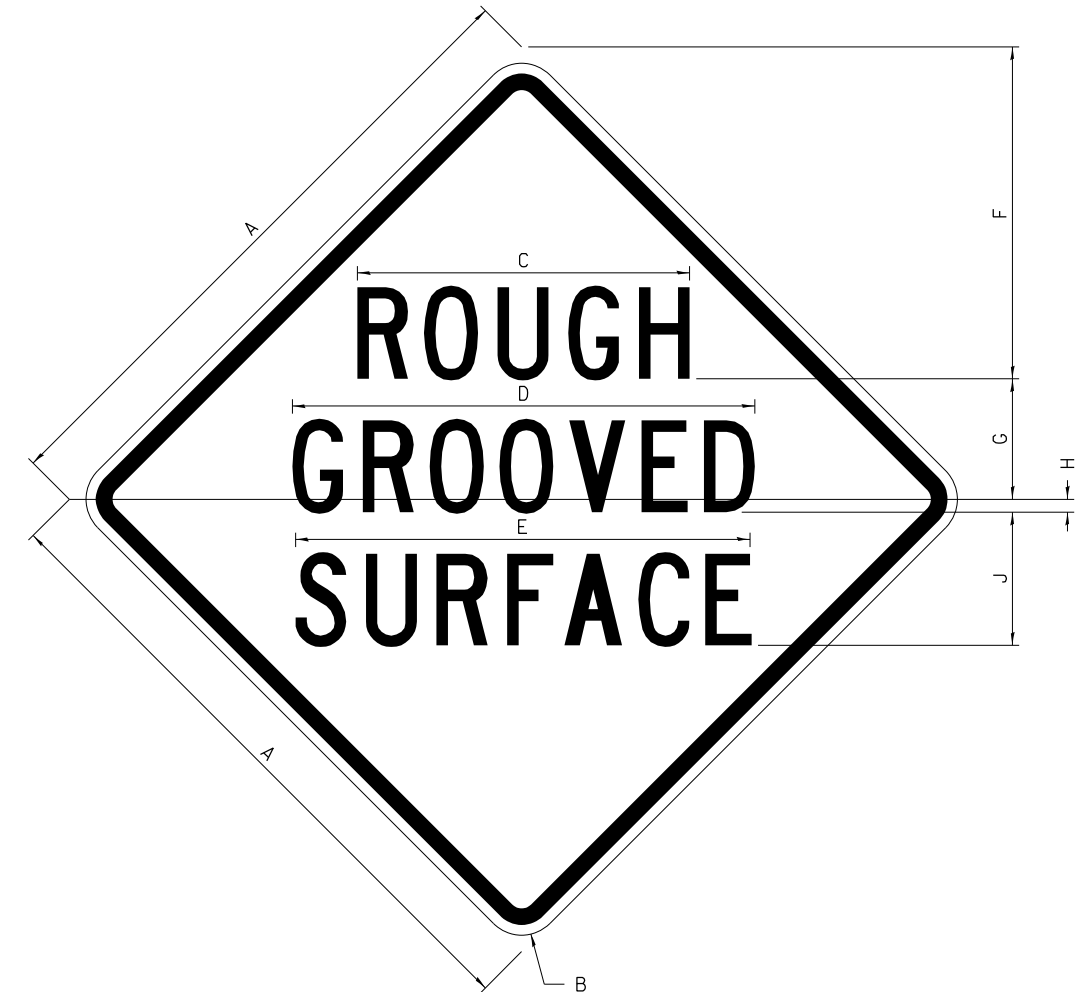
COLOR LEGEND AND BORDER BACKGROUND BLACK ORANGE NON-REFLECTORIZED REFLECTORIZED

SIGN SIZE	DIMENSIONS											
	A	B	C	D	E	F	G	H	J	K	L	M
60 x 36	60.00	36.00	2.25	6.4	21.80	16.40	10.00	22.40	13.20	15.50	10.50	10.00

SIGN SIZE	SERIES BY LINE			MARGIN	BORDER
	1	2	3		
60 x 36	5C	5C	5C	0.625	0.875

Sign not to scale

**ILLINOIS STANDARD W8-I107**



COLOR LEGEND AND BORDER BACKGROUND BLACK ORANGE NON-REFLECTORIZED REFLECTORIZED

SIGN SIZE	DIMENSIONS								
	A	B	C	D	E	F	G	H	J
48 x 48	48.00	3.00	25.00	34.80	34.20	24.94	9.00	1.00	10.00

SIGN SIZE	SERIES BY LINE			MARGIN	BORDER
	1	2	3		
48 x 48	7C	7C	7C	1.250	0.750

Sign not to scale

**GENERAL NOTES**

All work to furnish and install these signs shall be included in the cost of the specified traffic control standards and shall not be paid separately.

All Illinois Standard signs shall conform to the latest edition of the "Illinois Standard Highway Signs Book" in effect on the date of invitation for bids.

Signs shall meet the applicable portions of Sections 701 and 720 of the Standard Specifications.

All dimensions are in inches unless otherwise noted.

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USER NAME = costellojg	DESIGNED -	REVISED - 3-02-16
PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED -
PLOT DATE = Jan-31-2022 12:56:33 PM	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**REGION 2 / DISTRICT 2 STANDARD**

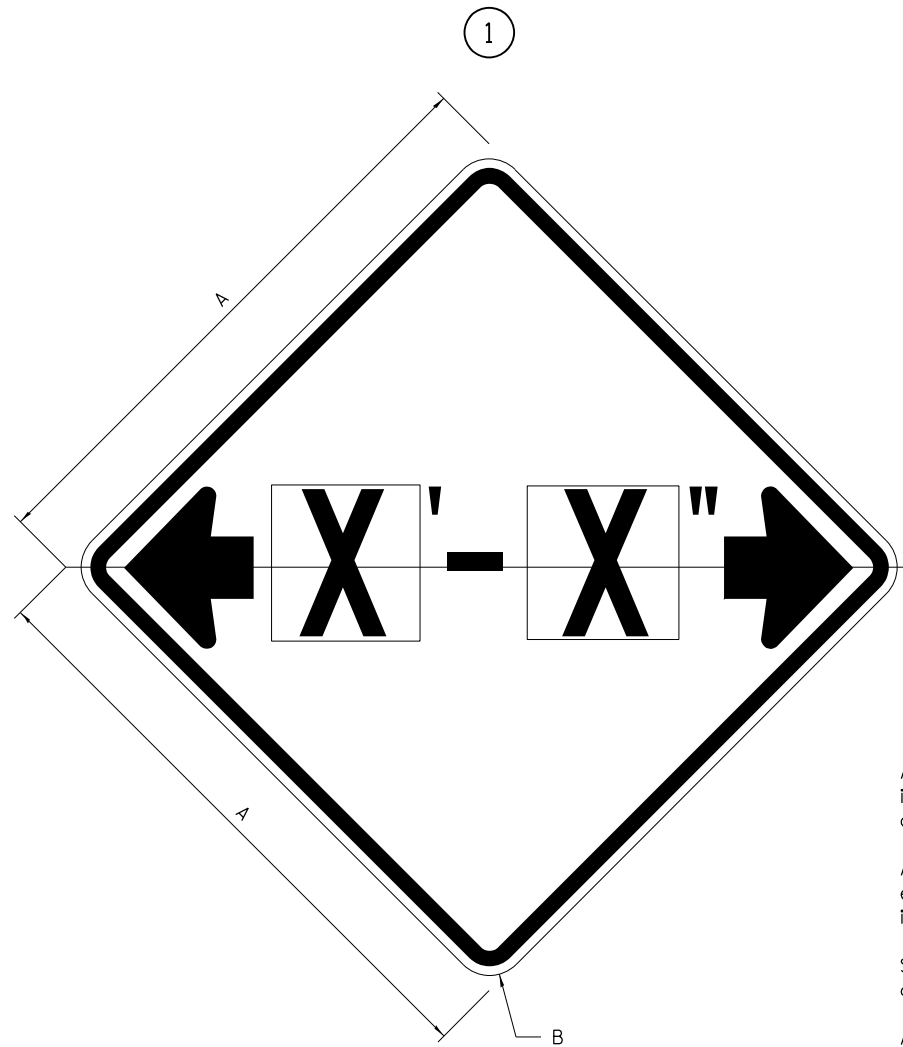
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
309	(7B)BRR	WHITESIDE	32	24
CONTRACT NO. 64J47				
ILLINOIS FED. AID PROJECT				

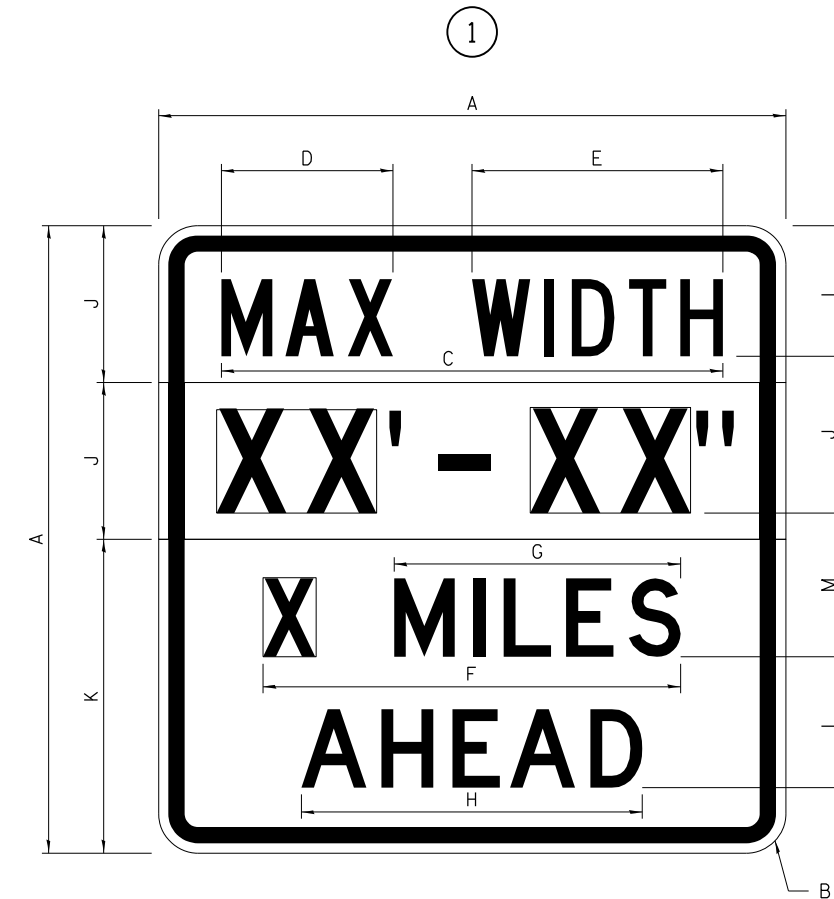


# WORK ZONE SIGN DETAILS

## ILLINOIS STANDARD W12-I102



## ILLINOIS STANDARD W12-I103



### GENERAL NOTES

All work to furnish and install these signs shall be included in the cost of the specified traffic control standards and shall not be paid separately.

All Illinois Standard signs shall conform to the latest edition of the "Illinois Standard Highway Signs Book" in effect on the date of invitation for bids.

Signs shall meet the applicable portions of Sections 701 and 720 of the Standard Specifications.

All dimensions are in inches unless otherwise noted.

COLOR LEGEND AND BORDER BACKGROUND BLACK FL ORANGE NON-REFLECTORIZED REFLECTORIZED

SIGN SIZE	DIMENSIONS	
	A	B
48 x 48	48.00	3.00

① Illinois Standard signs W12-I102 and W12-I103 shall be used as described in the special provisions.

SIGN SIZE	SERIES BY LINE	MARGIN	BORDER
	1		
48 x 48	12C	0.750	1.250

Sign not to scale

COLOR LEGEND AND BORDER BACKGROUND (WIDTH) BLACK WHITE FL ORANGE NON-REFLECTORIZED REFLECTORIZED REFLECTORIZED

SIGN SIZE	DIMENSIONS											
	A	B	C	D	E	F	G	H	J	K	L	M
48 x 48	48.00	3.00	38.40	13.20	19.20	32.00	22.00	26.20	12.00	24.00	10.00	11.00

SIGN SIZE	SERIES BY LINE				MARGIN	BORDER
	1	2	3	4		
48 x 48	6C	8D	6D	6D	0.750	1.250

Sign not to scale

XX'-XX" WIDTH AND X MILES ARE VARIABLE TOP AND BOTTOM OF BACKGROUND WHITE

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	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

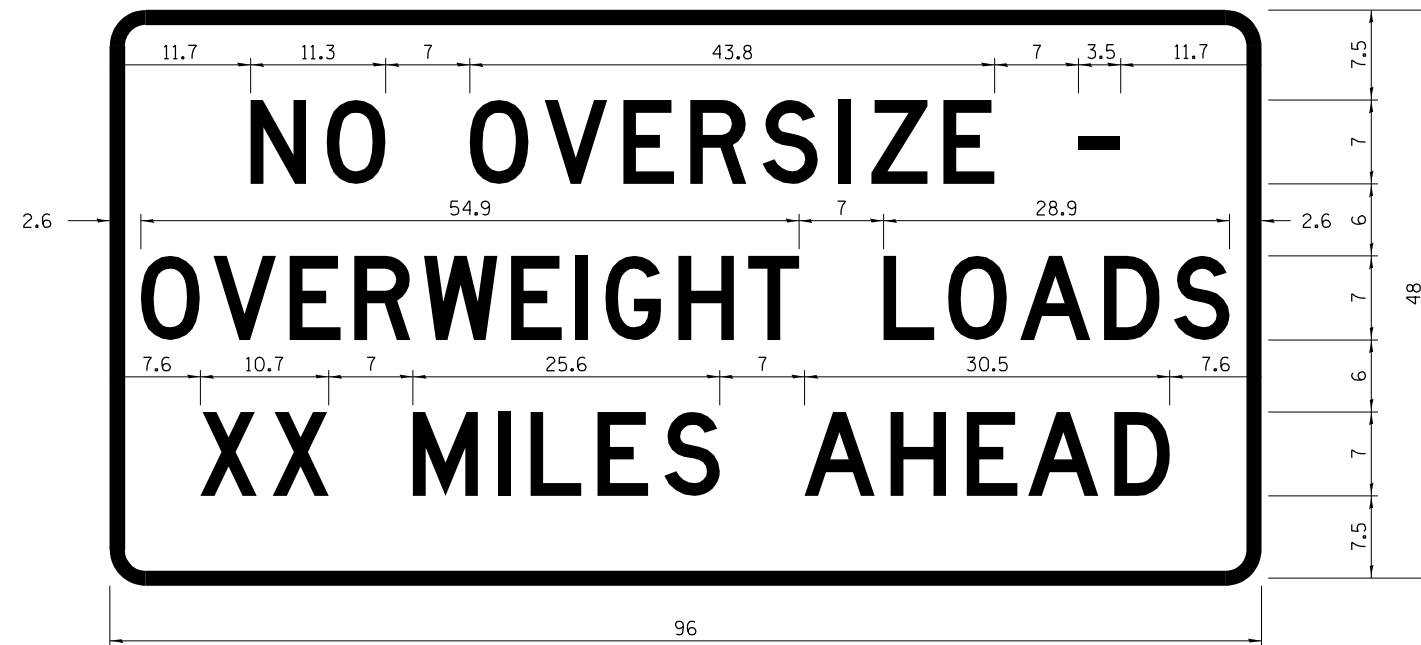
REGION 2 / DISTRICT 2 STANDARD

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
309	(7B)BRR	WHITESIDE	32	25
CONTRACT NO. 64J47				

# WORK ZONE SIGN DETAILS

## ROAD CLOSED TO OVERSIZED LOADS



## STOP LINE SIGN FOR TEMPORARY SIGNALS



COLOR	LEGEND AND BORDER BACKGROUND	BLACK ORANGE	NON-REFLECTORIZED REFLECTORIZED
-------	------------------------------	--------------	---------------------------------

COLOR	LEGEND AND BORDER BACKGROUND	BLACK WHITE	NON-REFLECTORIZED REFLECTORIZED
-------	------------------------------	-------------	---------------------------------

Permit Loads - Loads Over 13 Feet; 3.0" Radius, 1.3" Border;  
 [NO OVERSIZE -] D; [OVERWEIGHT LOADS] D 85% spacing; [XX MILES AHEAD] D;  
 Table of letter and object lefts.

SIGN SIZE	SERIES BY LINE		
	1	2	3
24 x 24	4C	4C	4C

N	O	O	V	E	R	S	I	Z	E	-
11.7	18.1	30.0	36.2	42.8	48.4	54.4	60.7	63.5	69.5	80.8

O	V	E	R	W	E	I	G	H	T	L	O	A	D	S
2.6	8.6	15.0	20.4	26.2	33.4	38.8	41.3	47.4	53.2	64.5	69.9	75.9	82.9	88.7

X	X	M	I	L	E	S	A	H	E	A	D
7.6	13.6	25.3	32.3	35.1	40.6	46.2	57.9	65.1	71.4	76.6	83.7

Sign not to scale

Sign not to scale

### GENERAL NOTES

All work to furnish and install these signs shall be included in the cost of the specified traffic control standards and shall not be paid separately.

All Illinois Standard signs shall conform to the latest edition of the "Illinois Standard Highway Signs Book" in effect on the date of invitation for bids.

Signs shall meet the applicable portions of Sections 701 and 720 of the Standard Specifications.

All dimensions are in inches unless otherwise noted.

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	DRAWN -	REVISED -
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

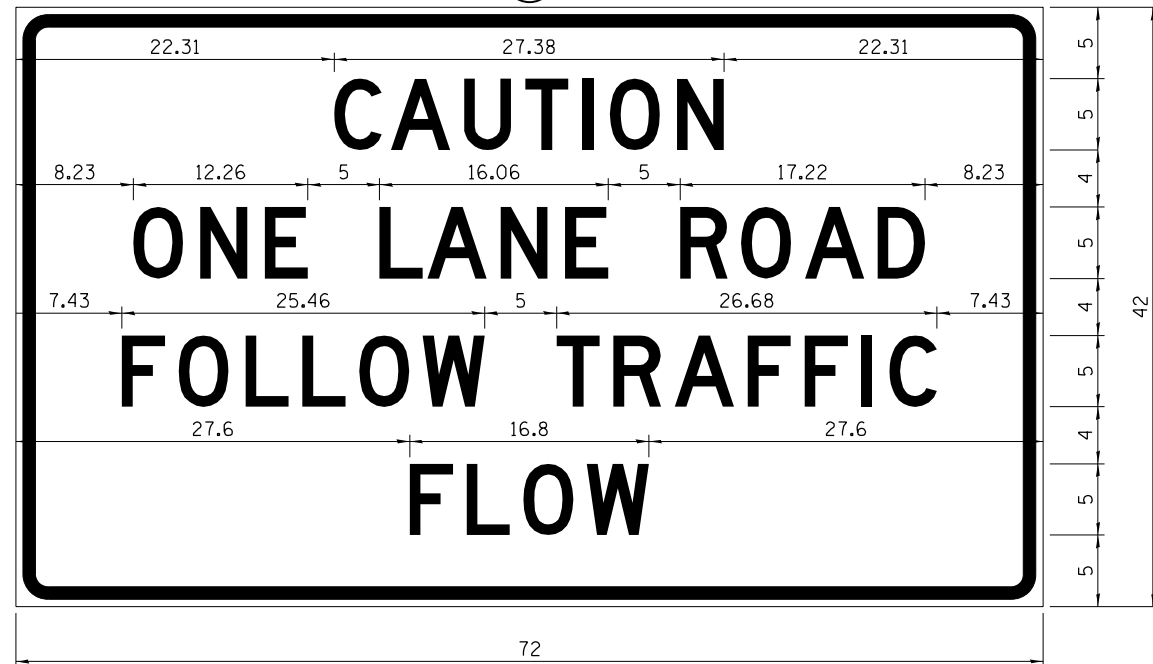
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
309	(7B)BRR	WHITESIDE	32	26
CONTRACT NO. 64J47				

**ENTRANCE SIGN FOR USE  
WITH TEMPORARY SIGNALS**

**WORK ZONE SIGN DETAILS**

②



COLOR LEGEND AND BORDER BACKGROUND BLACK ORANGE NON-REFLECTORIZED REFLECTORIZED

2.25" Radius, 0.88" Border, 0.50" Indent;  
[CAUTION] D; [ONE LANE ROAD] D;  
[FOLLOW TRAFFIC] D; [FLOW] D

② This sign shall be installed at entrances located between the temporary signals as shown in the staging plans.

**Table Of Widths And Spaces**

22.31	C	3.36	0.62	A	4.18	0.94	U	3.36	0.94	T	3.04	0.94	I	0.78	1.17	O	3.52	1.17	N	3.36	22.31
-------	---	------	------	---	------	------	---	------	------	---	------	------	---	------	------	---	------	------	---	------	-------

8.23	O	3.51	1.17	N	3.36	1.18	E	3.04
------	---	------	------	---	------	------	---	------

5.00	L	3.05	0.31	A	4.18	0.94	N	3.36	1.17	E	3.05
------	---	------	------	---	------	------	---	------	------	---	------

5.00	R	3.36	0.93	O	3.52	0.94	A	4.18	0.93	D	3.36	8.23
------	---	------	------	---	------	------	---	------	------	---	------	------

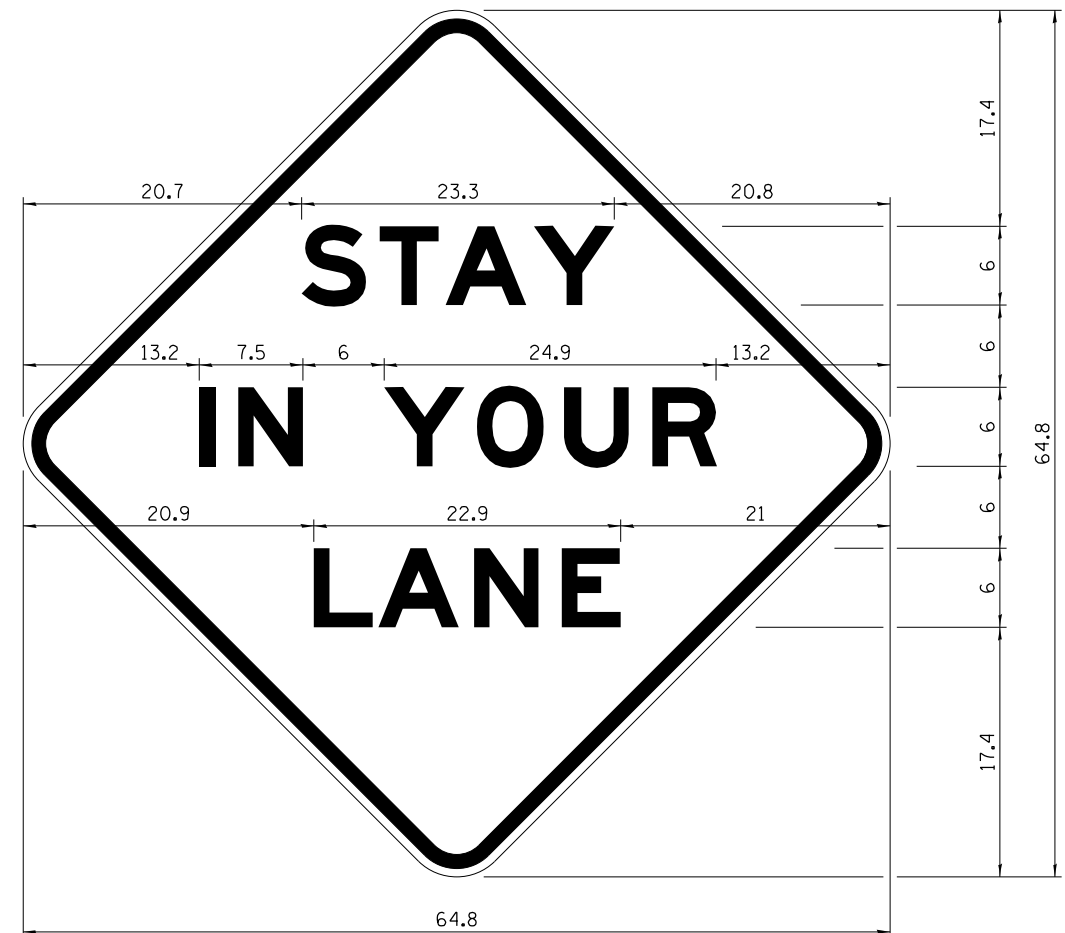
7.43	F	3.04	0.94	O	3.52	1.17	L	3.04	0.94	L	3.05	0.94	O	3.51	0.94	W	4.37
------	---	------	------	---	------	------	---	------	------	---	------	------	---	------	------	---	------

5.00	T	3.05	0.94	R	3.36	0.94	A	4.18	0.93	F	3.05	0.94	F	3.04	0.94	I	0.78	1.18	C	3.35	7.43
------	---	------	------	---	------	------	---	------	------	---	------	------	---	------	------	---	------	------	---	------	------

27.60	F	3.05	0.94	L	3.04	0.94	O	3.52	0.93	W	4.38	27.60
-------	---	------	------	---	------	------	---	------	------	---	------	-------

Sign not to scale

**STAY IN YOUR LANE**



COLOR LEGEND AND BORDER BACKGROUND BLACK ORANGE NON-REFLECTORIZED REFLECTORIZED

48.0" across sides 3.8" Radius, 1.0" Border, 0.6" Indent;  
"STAY" E Mod; "IN YOUR" E Mod; "LANE" E Mod;

**Table of Letter and Object Lefts**

S	T	A	Y
20.7	26.8	31.6	38.0

I	N	Y	O	U	R
13.2	15.9	26.7	33.9	40.5	46.8

L	A	N	E
20.9	25.8	33.1	39.4

Sign not to scale

**GENERAL NOTES**

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Signs shall meet the applicable portions of Sections 701 and 720 of the Standard Specifications.

All dimensions are in inches unless otherwise noted.

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
309	(7B)BRR	WHITESIDE	32	27
CONTRACT NO. 64J47				
ILLINOIS FED. AID PROJECT				

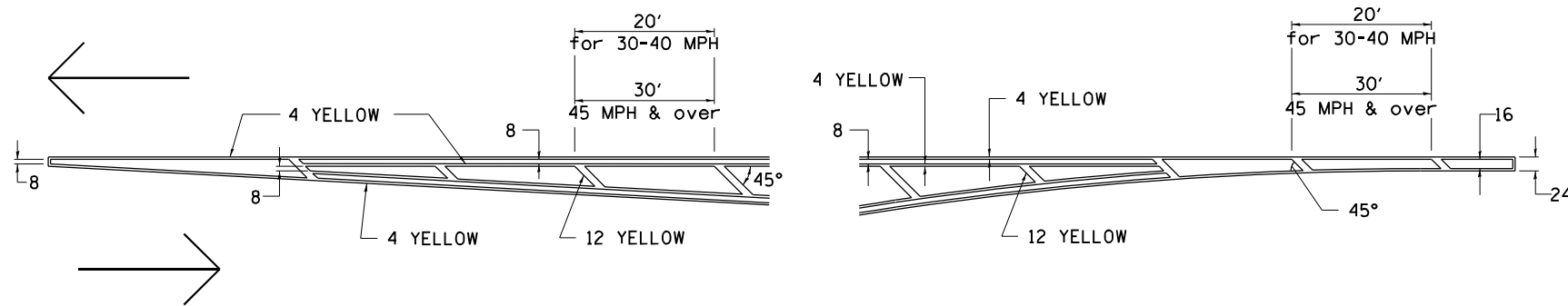
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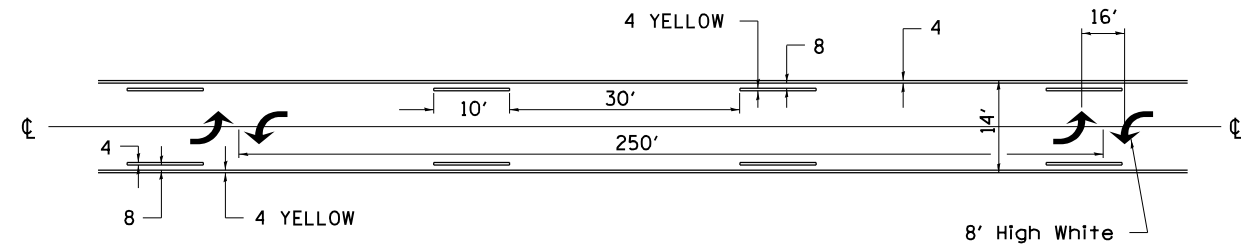


# TYPICAL PAVEMENT MARKINGS

## TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN AT LEFT TURN LANE

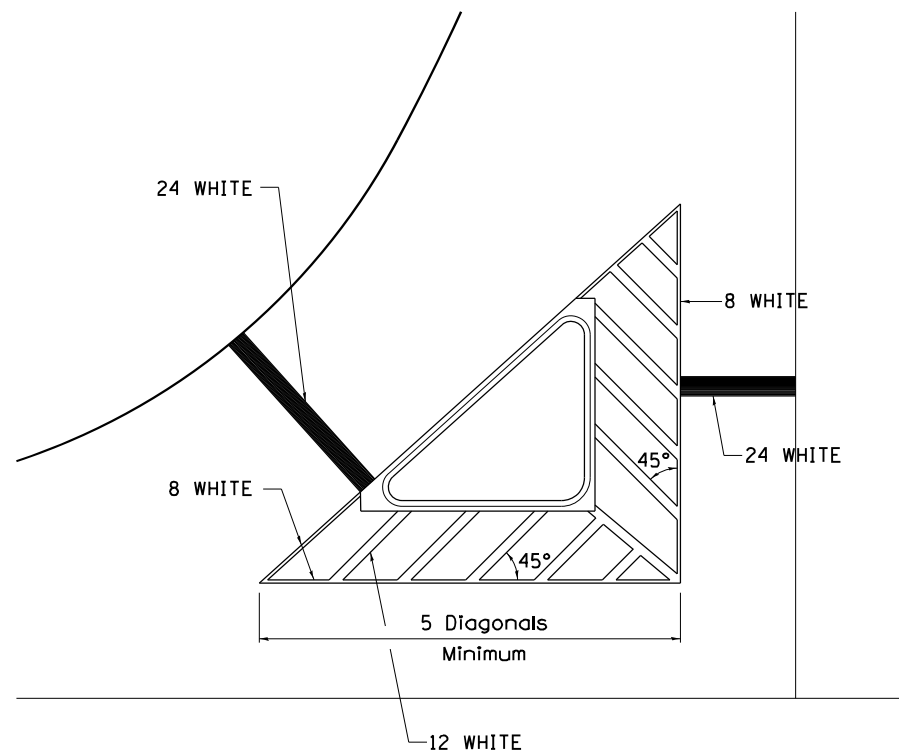


## MEDIAN PAVEMENT MARKING



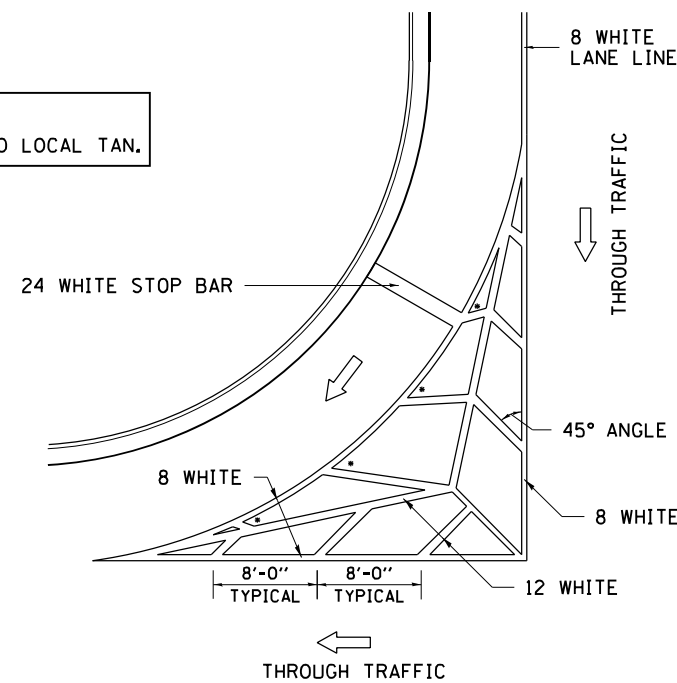
•• ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

## TYPICAL ISLAND OFFSET SHOULDER WIDTH



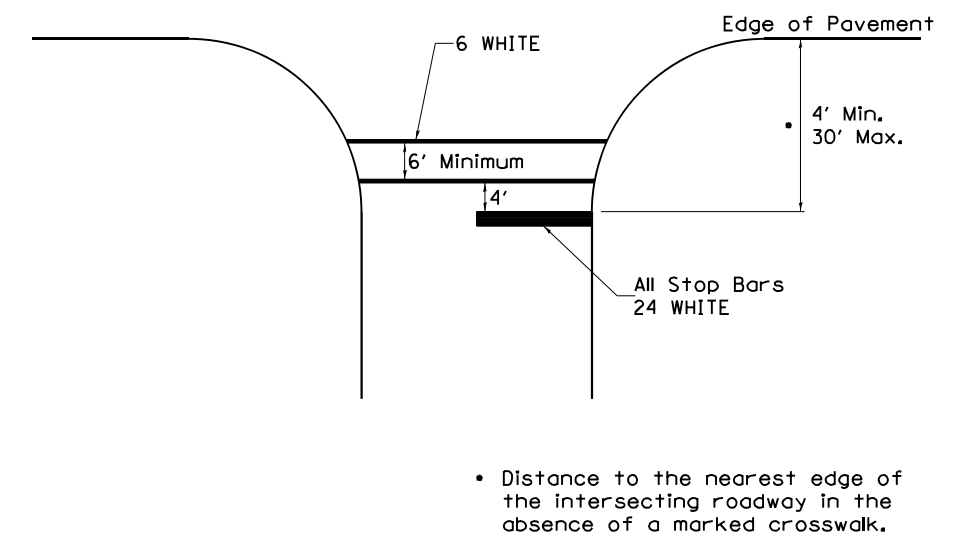
## TYPICAL MARKING FOR PAINTED ISLANDS

NOTE:  
\* 45° TO LOCAL TAN.



## STANDARD CROSSWALK MARKING

See Schedules for Locations



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	DRAWN -	REVISED - 3-05-12
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PLOT DATE = Jan-31-2022 12:58:59 PM	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

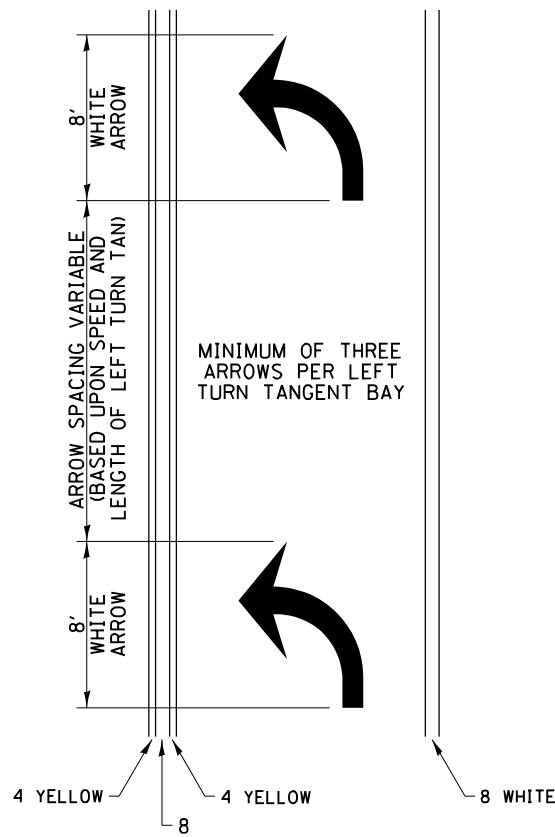
REGION 2 / DISTRICT 2 STANDARD

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 309	SECTION (7B)BRR	COUNTY WHITESIDE	TOTAL SHEETS 32	SHEET NO. 30
CONTRACT NO. 64J47				
ILLINOIS FED. AID PROJECT				

# TYPICAL PAVEMENT MARKINGS

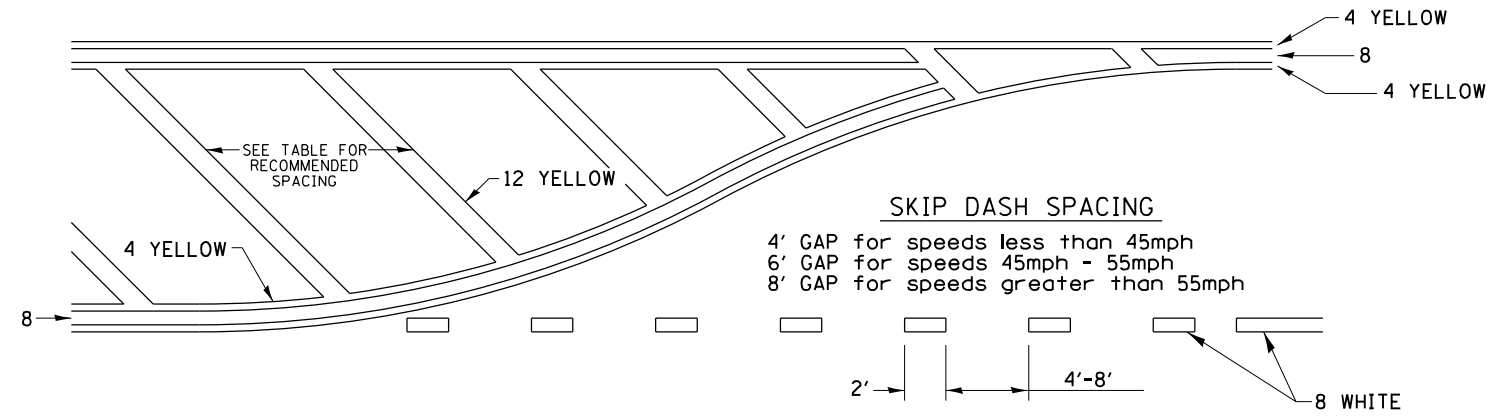
## ARROW LAYOUT



- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER
- ◆ TWO-WAY AMBER MARKER

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

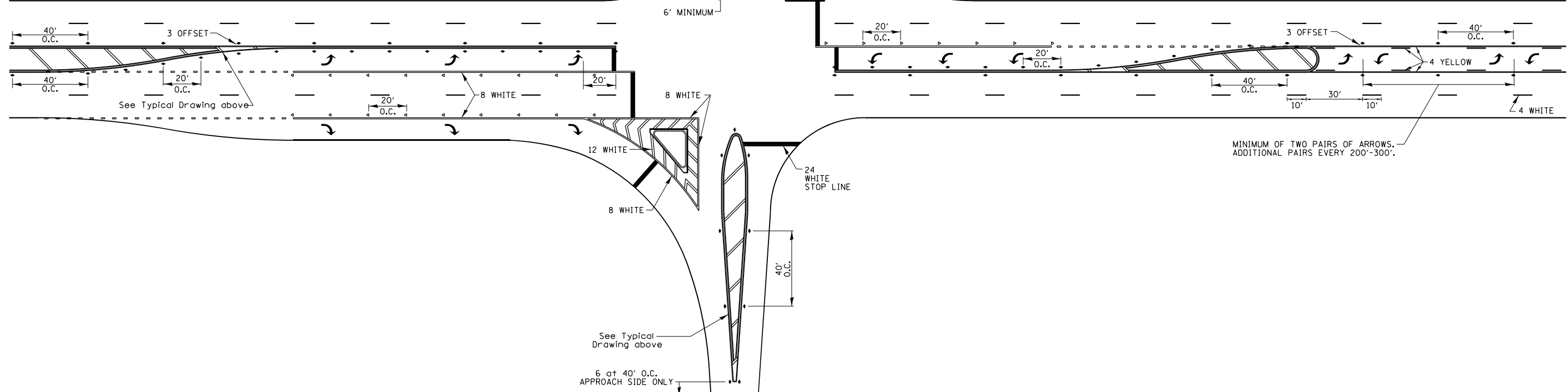
## TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN



### RECOMMENDED SPACING BETWEEN DIAGONALS (IN FEET)

Speed Limit Range	Continuous Median Area	Intersection Channelization	Objects (Islands)
less than 30MPH	50'	15'	10'
30-40MPH	75'	20'	15'
45MPH & over	75'	30'	20'

NOTE: if the spacing recommended in the Table does not permit at least five diagonal lines in the area being marked, the spacing from the next lowest speed range should be used. The recommended spacing is measured parallel to the pavement center line.



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	DRAWN -	REVISED - 3-05-12
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PLOT DATE = Jan-31-2022 12:59:20 PM	DATE -	REVISED -

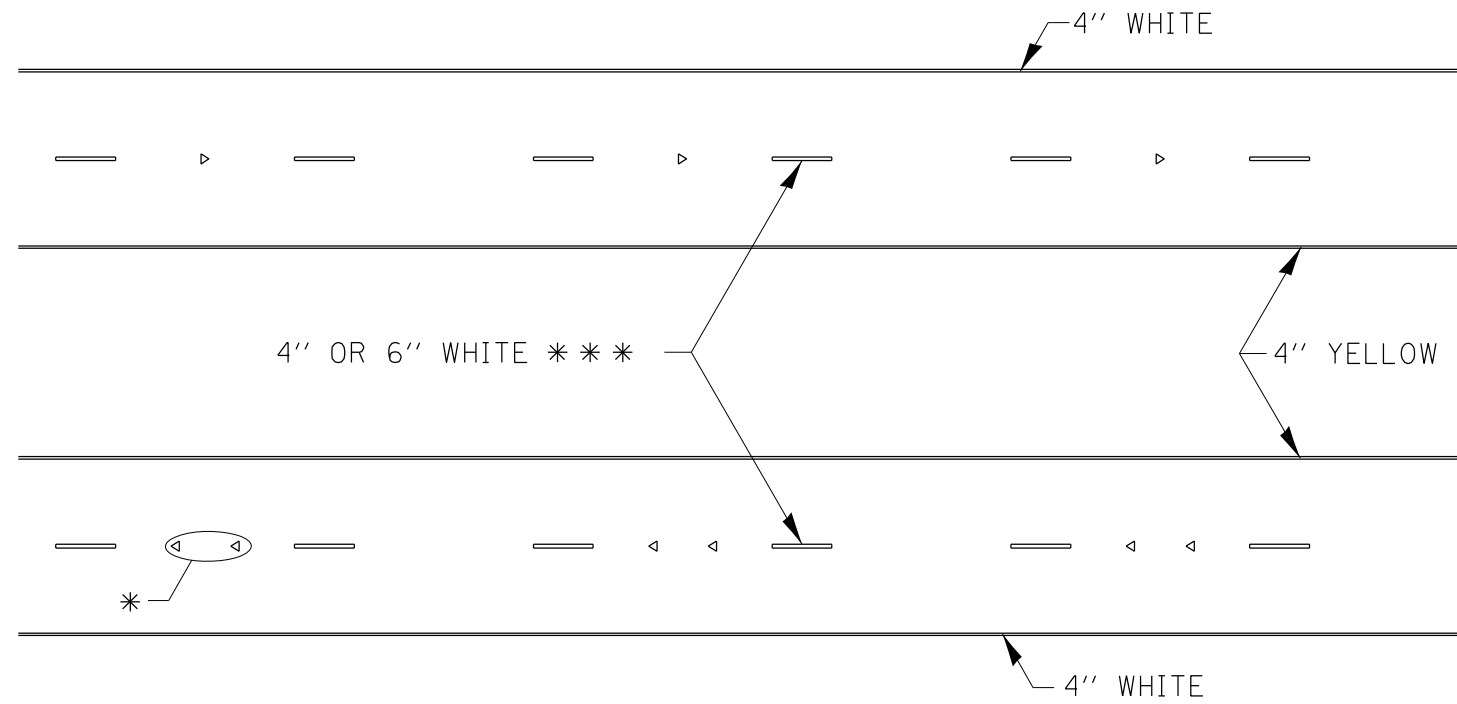
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

SCALE: SHEET OF SHEETS STA. TO STA.

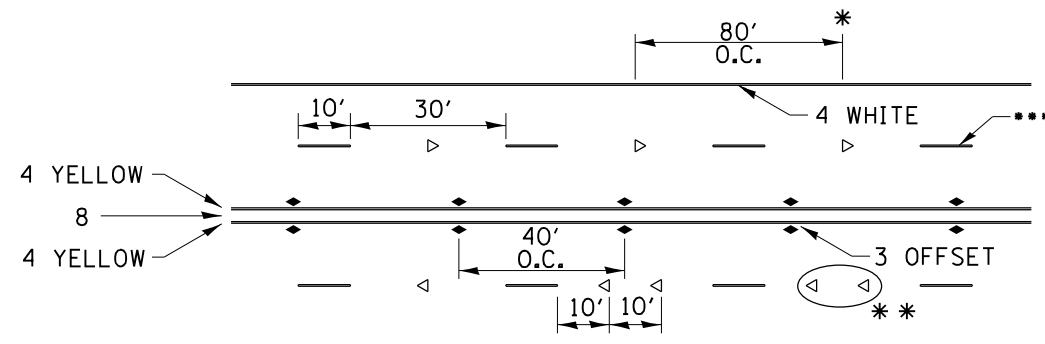
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
309	(7B)BRR	WHITESIDE	32	31
CONTRACT NO. 64J47				
ILLINOIS FED. AID PROJECT				

# TYPICAL PAVEMENT MARKINGS



\* SEE HIGHWAY STANDARD 781001 FOR SPACING DETAILS.  
USE DOUBLE MARKERS WHEN ADT > 20,000.

## MULTI-LANE / DIVIDED



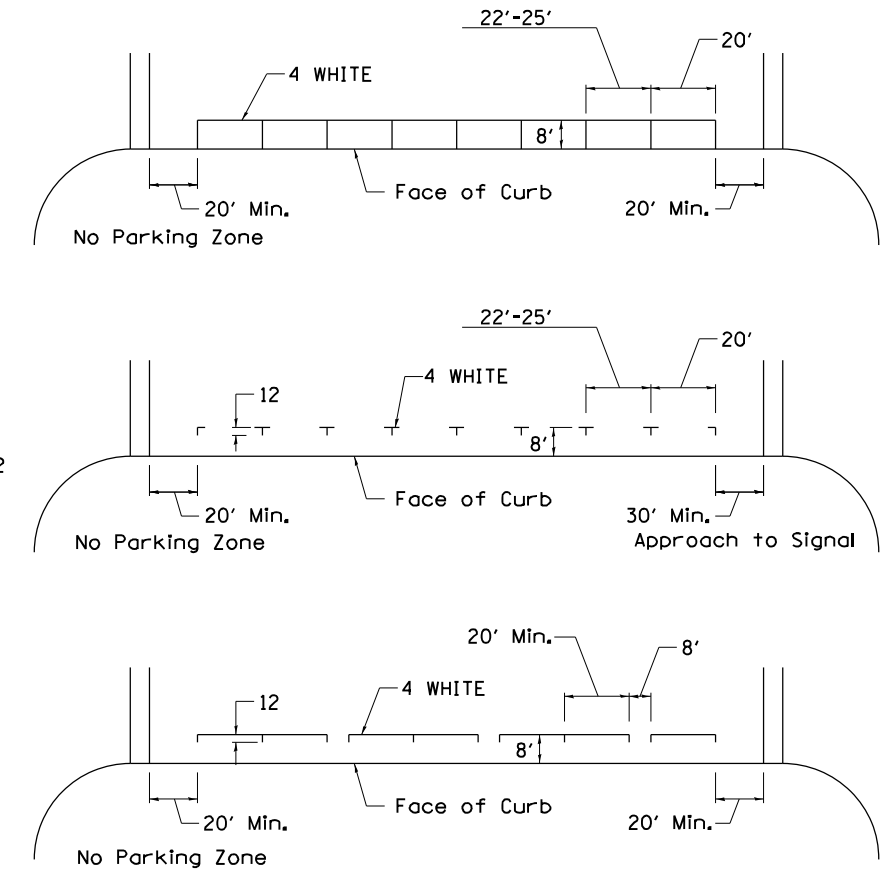
## SYMBOLS

- \* REDUCE TO 40' O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 MPH LOWER THAN POSTED SPEEDS.
- \*\* USE DOUBLE MARKERS WHEN ADT ≥ 20,000
- \*\*\* CENTERLINE SKIP DASH PAVEMENT MARKING SPEED LIMIT LESS THAN 40 MPH USE 4" LINE. SPEED LIMIT 40 MPH AND OVER USE 6" LINE.

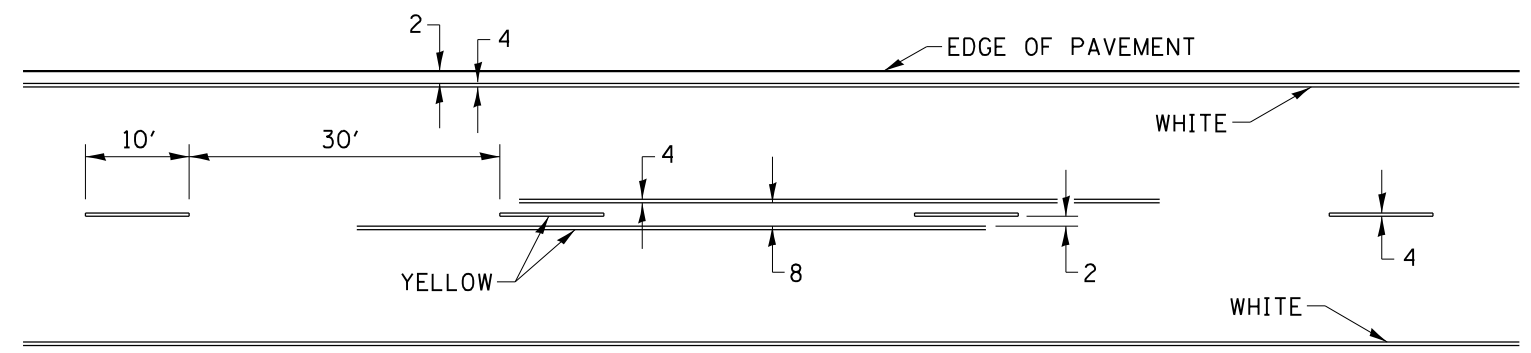
## MULTI-LANE / UNDIVIDED & ONE WAY

(FOR MULTI-LANE UNDIVIDED HIGHWAYS USE THIS  
DETAIL NOT HIGHWAY STANDARD 781001)

## TYPICAL PARKING SPACING



## TYPICAL PAVEMENT MARKING FOR TWO LANE SECTION – NO PASSING ZONES



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PLOT DATE = Jan-31-2022 12:59:43 PM	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
309	(7B)BRR	WHITESIDE	32	32
CONTRACT NO. 64J47				
ILLINOIS FED. AID PROJECT				