

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

F.A.I. ROUTE 80: I-80
OVER DES PLAINES RIVER
SECTION: 99-3-BR-2
BRIDGE REPAIRS
WILL COUNTY
C-91-445-14

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-3-BR-2	WILL	57	1
ILLINOIS			CONTRACT NO. 60Y64	

* 57 + 4 = 61

FOR INDEX OF SHEETS, SEE SHEET NO. 2

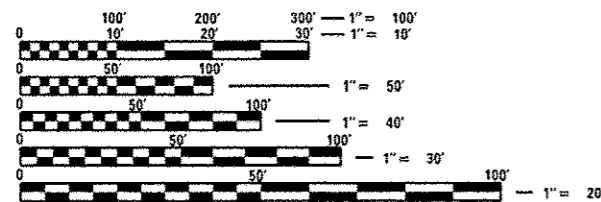
IMPROVEMENT IS LOCATED
IN THE CITY OF JOLIET

LOCATION OF
IMPROVEMENT:
S.N. 099-0056;-0057

TRAFFIC DATA

2013 ADT = 82000

SPEED LIMIT = 55 MPH

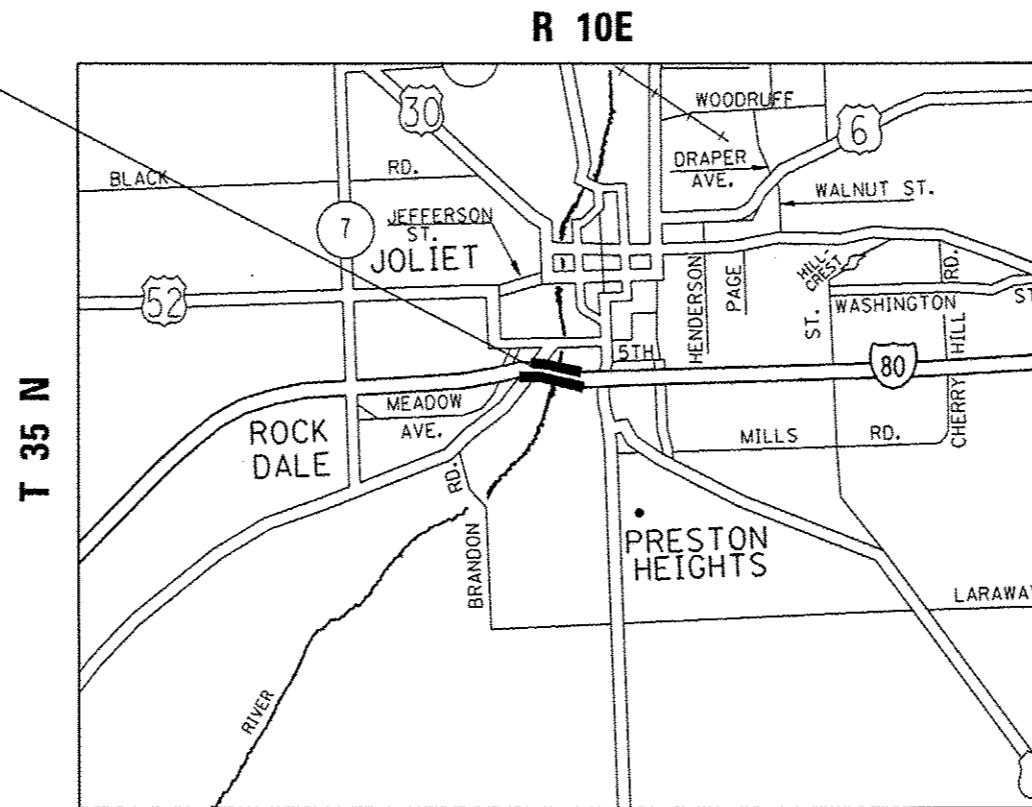


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

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

CONTRACT NO. 60Y64



CROSS LENGTH OF IMPROVEMENT = 2362 FT = 0.447 MILES



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED August 1, 2014
John Furber
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

Oct 17, 2014
John D. Baranelli P.E.
ENGINEER OF DESIGN AND ENVIRONMENT

Oct 17, 2014
Omer Osman P.E.
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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OF THE STATE OF ILLINOIS

INDEX OF SHEETS

<u>SHEET NO.</u>	<u>DESCRIPTION</u>
1	TITLE SHEET
2	INDEX OF SHEETS, STATE STANDARDS, & GENERAL NOTES
3	SUMMARY OF QUANTITIES
4-23	BRIDGE REPAIR DETAILS - SN 022-0022
24-48	TRAFFIC CONTROL PLANS (STAGE I, II & IIB)
49-51	DETOUR PLANS
52-53	TRAFFIC STAGING PLAN
54	FREEWAY ENTRANCE AND EXIT RAMP CLOSURE DETAILS (TC-8)
55	TRAFFIC CONTROL DETAILS FOR FREEWAY SINGLE & MULTI-LANE WEAVE (TC-09)
56	TRAFFIC CONTROL FOR SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES (TC-17)
57	ARTERIAL ROAD INFORMATION SIGN (TC-22)

* *sheets 23A, 23B, 23C, 23D. ADDED*

STATE STANDARDS

<u>STANDARD NO.</u>	<u>DESCRIPTION</u>
701006-05	OFF ROAD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701101-04	OFF ROAD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
701301-04	LANE CLOSURE, 2L, 2W SHORT TIME OPERATIONS
701400-07	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-08	LANE CLOSURE, FREEWAY/EXPRESSWAY
701411-08	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP FOR SPEED >45 MPH
701428	TRAFFIC CONTROL SETUP AND REMOVAL FREEWAY/EXPRESSWAY
701446-05	TWO LANE CLOSURE FREEWAY/EXPRESSWAY
701606-09	URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701901-03	TRAFFIC CONTROL DEVICES

GENERAL NOTES

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE & GAS UTILITIES. (48 HOUR NOTIFICATION IS REQUIRED).

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

THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.

THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4155 FOR EXPRESSWAYS AND (847)705-4470 FOR ARTERIALS, A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

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

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

DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.

THE "ARTERIAL ROAD INFORMATION SIGN (TC-22)" IS APPLICABLE ONLY TO ARTERIAL ROADS AND SHALL NOT BE APPLIED TO EXPRESSWAYS/TOLLWAYS.

THE CONTRACTOR SHALL OBTAIN COAST GUARD APPROVAL FOR ANY WORK THAT MAY INTERFERE WITH NAVIGATIONAL OPERATIONS OF THE NAVIGABLE WATERS. A WORK PLAN SHALL BE PREPARED BY THE CONTRACTOR, REVIEWED AND APPROVED BY THE ENGINEER AND BE SUBMITTED BY THE ENGINEER TO THE COAST GUARD AT THE ADDRESS LISTED BELOW FOR APPROVAL.

Locations downstream (South) of 16th St Bridge in Lockport, Il:

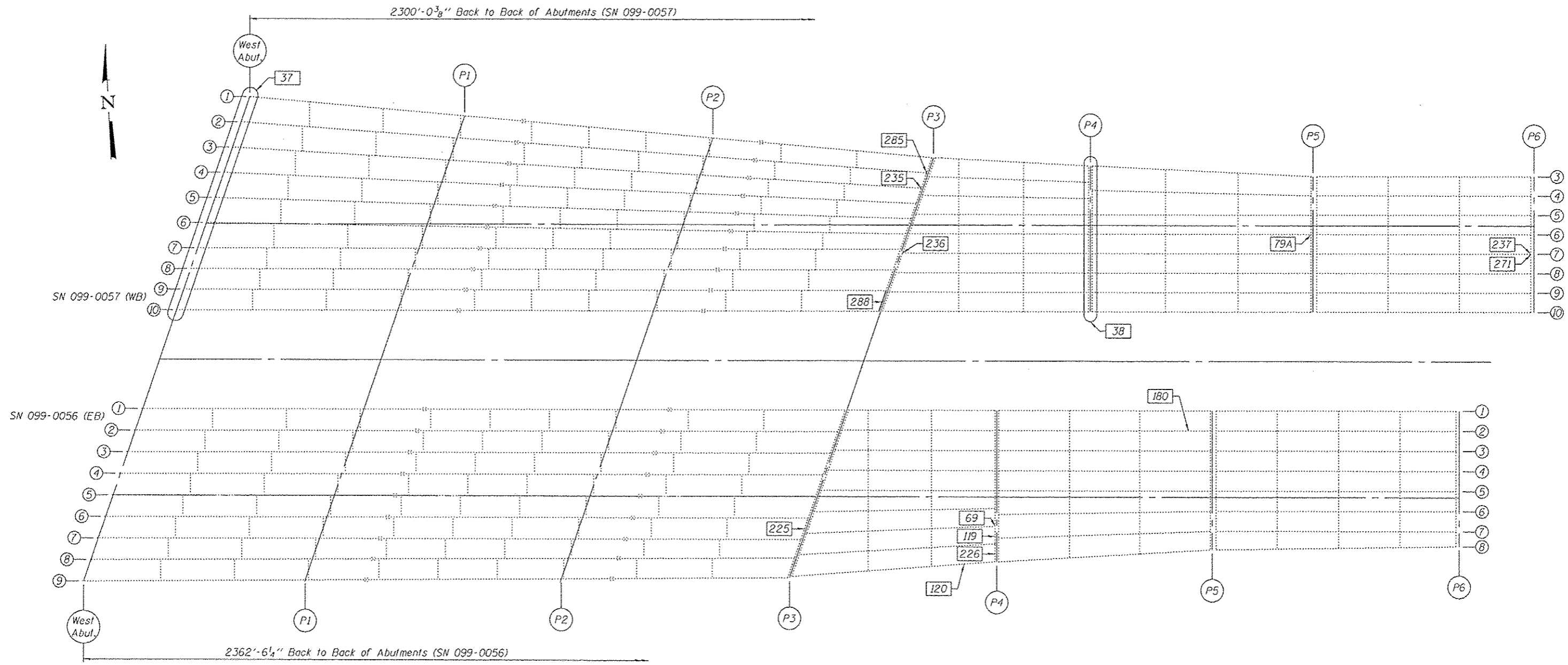
BRIDGE ADMINISTRATOR
US COAST GUARD
EIGHT COAST GUARD DISTRICT
1222 SPRUCE STREET
ST. LOUIS, MO 63103-2832

(As of 4/4/07 still Roger Wiebesch (314) 269-2378)

THE DEPARTMENT HAS DETERMINED THAT IN STREAM WORK IS NOT REQUIRED FOR THE WORK SPECIFIED IN THIS CONTRACT. THE DEPARTMENT HAS NOT OBTAINED A 404 PERMIT. IF THE CONTRACTOR CHOOSES TO USE ACTIVITIES REQUIRING AN USACE 404 PERMIT IT IS THE CONTRACTOR'S RESPONSIBILITY TO SECURE THE PROPER USACE PERMITS.

Rev.

FILE NAME :	USER NAME : Gorangautab	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INDEX OF SHEETS		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
st:\p\work\p\dot\gorangautab\0404050	0144514-sh1-stage1.dgn	DRAWN -	REVISED -		STATE STANDARDS, GENERAL NOTES		80	99-3-BR-2	WILL	57	2
Default	PLOT SCALE = 100.0000 ' / in	CHECKED -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	CONTRACT NO. 60Y64
	PLOT DATE = 9/8/2014	DATE -	REVISED -		ILLINOIS FED. AID PROJECT						



FRAMING PLAN - WEST APPROACH SPANS 1 THRU 6

SCOPE OF WORK

For Scope of Work see tables on sheet 4 & 5 of 24.

xxx = NBIS Item No.

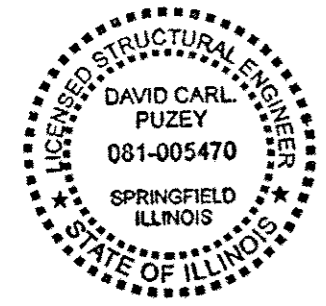
GENERAL NOTES

All structural steel shall conform to AASHTO Classification M-270 Gr. 36, unless otherwise noted.
 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.
 Fasteners shall be high strength bolts. Flange Bolts 7/8"φ, open holes 1 1/16"φ, Web Bolts 3/4"φ, open holes 1 1/16"φ unless otherwise noted.
 Diaphragm connection holes shall be 1 1/16"φ for 3/4"φ bolts. Two hardened washers shall be required at diaphragm connections.

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".
 Cost of removal and re-installation of all members necessary to complete the work as detailed on the plans and as specified in the Special Provisions shall be included with Structural Steel Repair.
 The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Structural Steel Repair	Pound	18,590
Silicone Joint Sealer, 1"	Foot	31
Silicone Joint Sealer, 1 3/4"	Foot	23
Silicone Joint Sealer, 2"	Foot	117
Silicone Joint Sealer, 2 3/4"	Foot	206



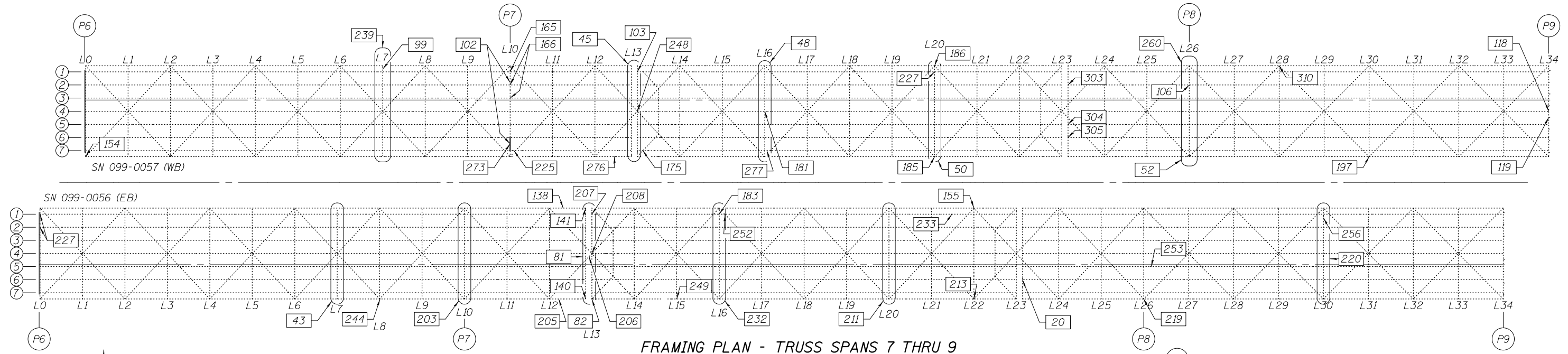
Expires: November 30, 2016

DESIGNED - <i>David Puzey</i>	EXAMINED - <i>Timothy A. Ayle</i>	DATE - OCTOBER 17, 2014
CHECKED - <i>Tom O'Connell</i>	ACTING ENGINEER OF STRUCTURAL SERVICES	
DRAWN - Kyle M. Steffen/boliva	PASSED - <i>David Puzey</i>	ACTING ENGINEER OF BRIDGES AND STRUCTURES
CHECKED - <i>OTC TLC</i>		

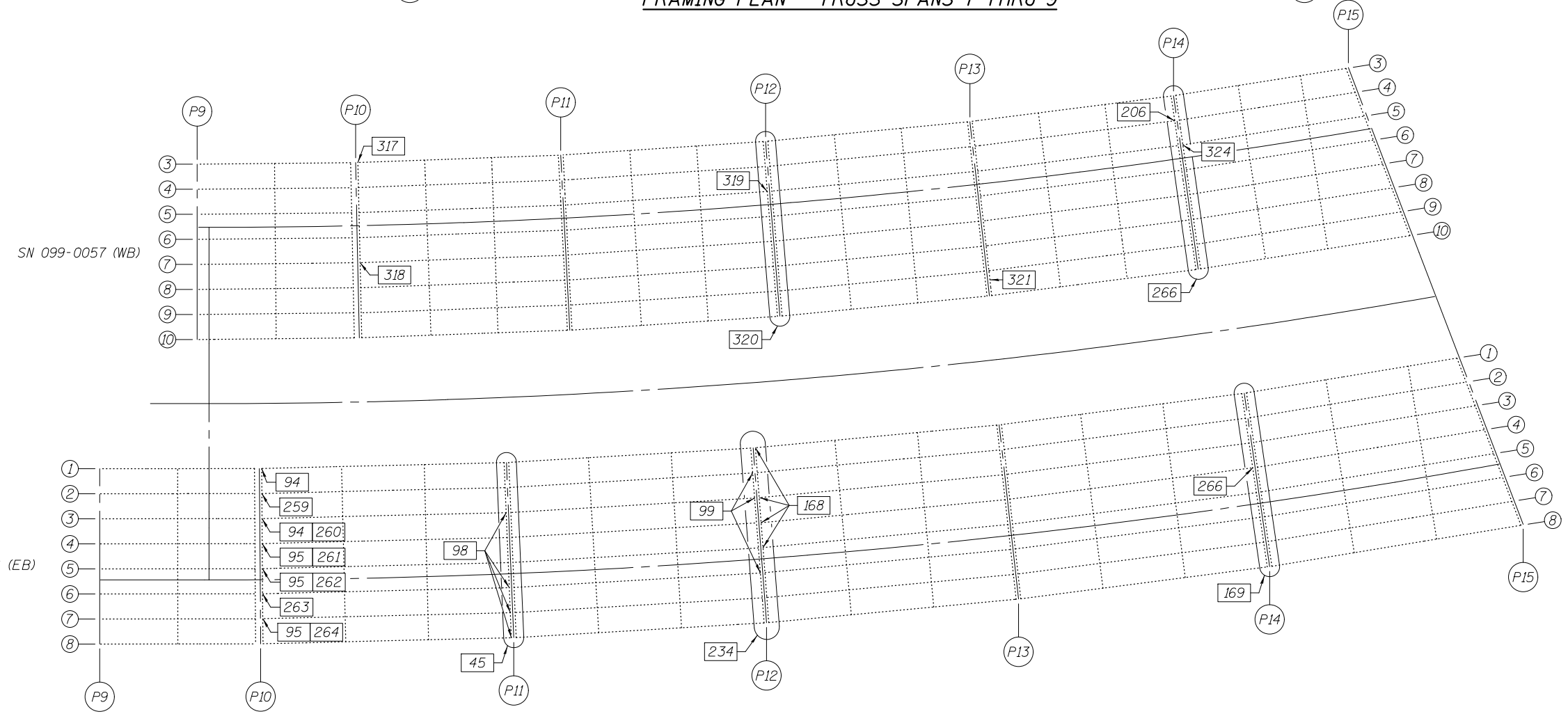
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FRAMING PLAN - SPANS 1 THRU 6
I-80 OVER THE DES PLAINES RIVER
SN 099-0056 (E.B.) & 099-0057 (W.B.)
SHEET NO. 1 OF 24 SHEETS

F.A.I. RTE. 80	SECTION 99-3-BR-2	COUNTY WILL	TOTAL SHEETS 57	SHEET NO. 4
CONTRACT NO. 60Y64				ILLINOIS FED. AID PROJECT

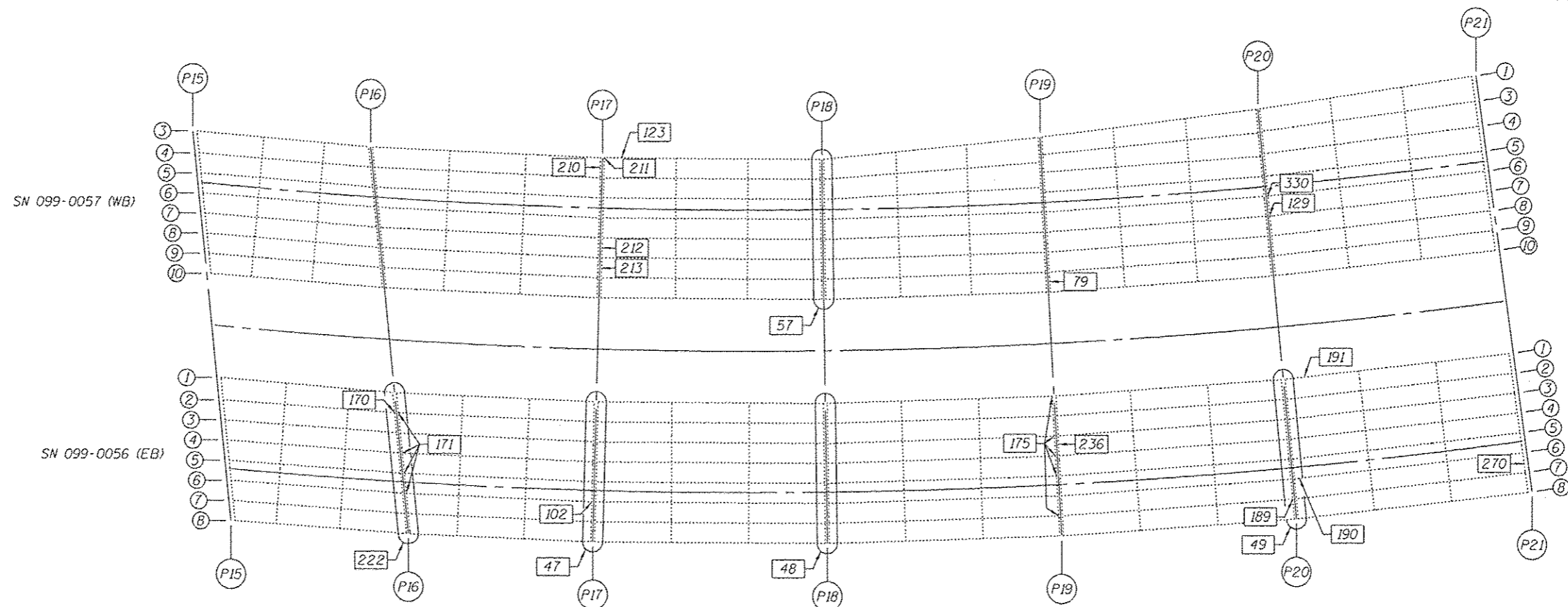


FRAMING PLAN - TRUSS SPANS 7 THRU 9

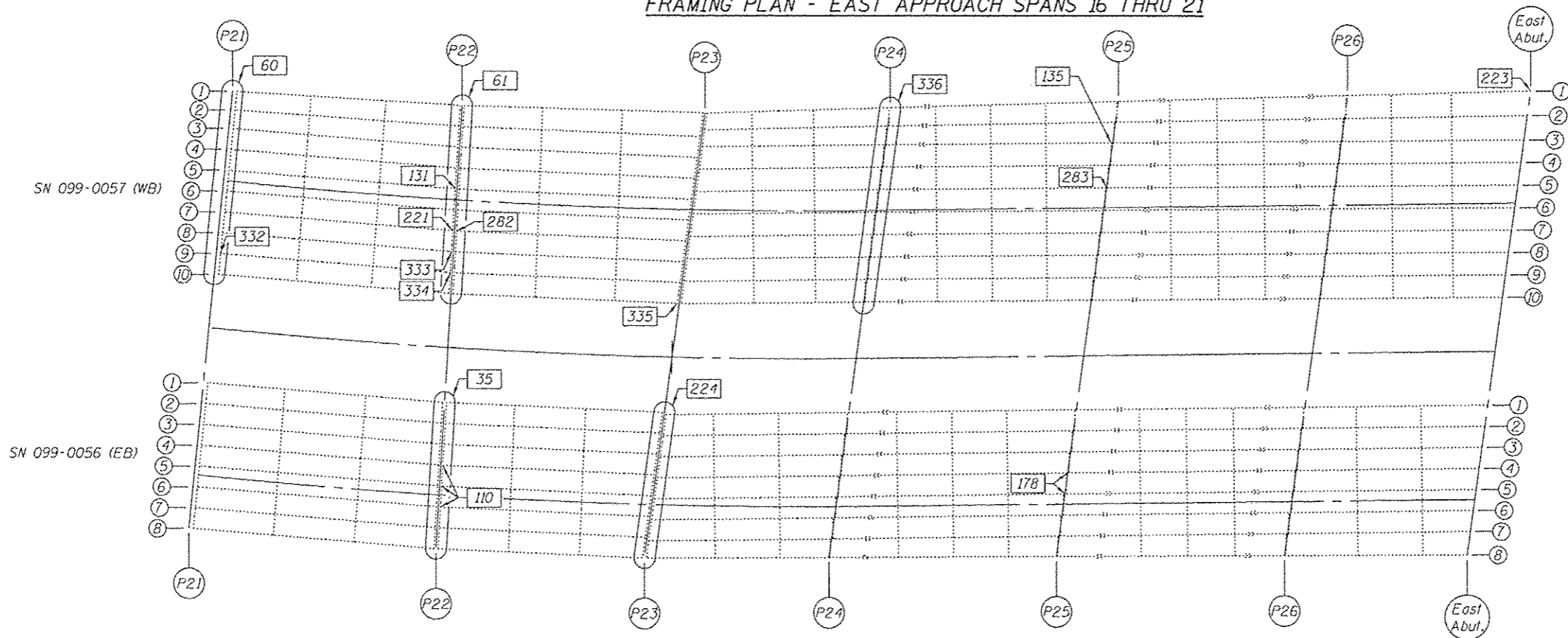


FRAMING PLAN - EAST APPROACH SPANS 10 THRU 15

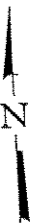
DESIGNED - GGE	EXAMINED - <i>Timothy A. Doolittle</i> ACTING ENGINEER OF STRUCTURAL SERVICES	DATE - OCTOBER 17, 2014	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		FRAMING PLAN - SPANS 7 THRU 15		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHECKED - TLC	PASSED - <i>Carl Berger</i> ACTING ENGINEER OF BRIDGES AND STRUCTURES				SN 099-0056 (E.B.) & 099-0057 (W.B.)		80	99-3-BR-2	WILL	57	5
DRAWN - Kyle M. Steffen/balva					SHEET NO. 2 OF 24 SHEETS		CONTRACT NO. 60Y64				
CHECKED - GGE TLC					ILLINOIS FED. AID PROJECT						



FRAMING PLAN - EAST APPROACH SPANS 16 THRU 21



FRAMING PLAN - EAST APPROACH SPANS 22 THRU 27



DESIGNED - GGE
 CHECKED - TLC
 DRAWN - Kyle M. Steffen/balva
 CHECKED - GGE TLC

EXAMINED *Timothy A. Anhalt* DATE - OCTOBER 17, 2014
 ACTING ENGINEER OF STRUCTURAL SERVICES
 PASSED *Carl Hogg*
 ACTING ENGINEER OF BRIDGES AND STRUCTURES

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

FRAMING PLAN - SPANS 16 THRU 27
 SN 099-0056 (E.B.) & 099-0057 (W.B.)

SHEET NO. 3 OF 24 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-3-BR-2	WILL	57	6
CONTRACT NO. 60Y64				
ILLINOIS FED. AID PROJECT				

SN 099-0056 (E.B.) SCOPE OF WORK

03/16/14 NBIS Inspection Report Item No.	Location
120	Span 4 Girder 9, 5' west of Pier 4. Bolt through cover plate and bottom flange.
180	Span 5 Girder 2, 8' west of Pier 5. Strengthen girder.
179	Guardrail missing bolts throughout. See table this sheet. Replace 91 missing bolts.
69	Span 4 Girder 7 diaphragm at Pier 4. Replace one missing bolt.
244	Span 7, Gusset \bar{r} at L8S. Replace 1 Broken Bolt
203	Span 8 FB 10 Stringers 1 thru 7. Replace 14 deteriorated bolts at stringer bottom flange to bearing connection.
138	Span 8 L12N-L13N splice 6' east of L12N. Replace 24 deteriorated web splice bolts.
205	Span 8 L12S-L13S splice. Replace 5 deteriorated web splice bolts.
206	Span 8 FB 13 mid-span connection plate. Replace two missing bolts.
207	Span 8 FB 13 Stringer 1. Replace one missing bolt.
208	Span 8 FB 13 below Stringer 4. Replace one missing bolt.
82	Span 8 FB 13 at L13S. Replace one missing bolt.
211	Span 8 FB 20 Stringers 1 thru 7. Replace 14 deteriorated bolts at stringer bottom flange to bearing connection.
232	Span 8 FB 16, Panel 17, Stringers 1 thru 7. Replace 14 deteriorated bolts at Stringer Seat Connection.
213	Span 8, 6' from FB22, Panel 23. Install bolt in miss drilled hole.
219	Span 8 & 9, S. Brg. at Pier 8. Replace loose bolt above pin.
253	Span 9, Stringer 5, Midspan Panel 27 at diaphragm. Replace loose bolt.
178	Span 25, Pier 25, Brgs. at Girder 4 & 5. Tighten loose anchor bolt nuts (2 at each Girder)
155	Span 8 L22N-U22N. Strengthen vertical.
249	Span 8, L15S-U15S. Strengthen vertical
252	Span 8, L16N-U16N. Strengthen diagonal
190	Span 21 Girder 6 at Pier 20. Strengthen girder.
20	Span 8 FB 23 Stringers 6. Remove existing repairs and strengthen stringer.
183	Span 8, FB 16, Stringer 1. Strengthen stringer.
233	Span 8, FB 21, Stringer 1. Strengthen stringer.
256	Span 9, FB 30, Stringer 1. Strengthen stringer.
259	Span 11, Pier 10, Girder 2. Strengthen girder.
260	Span 11, Pier 10, Girder 3. Strengthen girder.
261	Span 11, Pier 10, Girder 4. Strengthen girder.
262	Span 11, Pier 10, Girder 5. Strengthen girder.
263	Span 11, Pier 10, Girder 6. Strengthen girder.
264	Span 11, Pier 10, Girder 7. Strengthen girder.
191	Span 21 Girder 1, 7' from Pier 20. Strengthen girder.
225	Span 3 Pier 3 Diaph. btwn. Girders 6 & 7. Strengthen Diaphragm.
226	Span 4 Pier 4 Diaph. btwn. Girders 8 & 9. Strengthen Diaphragm.
236	Span 20 Pier 19 Diaph. btwn. Girders 3 & 4. Strengthen Diaphragm.
227	Above Pier 6, Stringer 1 & 2. Remove portion of Deck above flange, then install shear studs and repour deck.
140	Span 8, U13S-U14S at U13S. Wearing groove. Repair Pin.
141	Span 8, U13N-U14N at U13S. Wearing groove. Repair Pin.

03/16/14 NBIS Inspection Report Item No.	Location
94	Pier 10, Span 11, Girders 1 & 3. Jack & clean bearings & install \bar{r} between Bearing & Sole \bar{r} as required.
95	Pier 10, Span 11, Girders 4, 5 & 7. Jack & clean bearings & install \bar{r} between Bearing & Sole \bar{r} as required.
98	Pier 11, Span 11 & 12, Girders 3, 6, 7 & 8. Jack & clean bearings & install \bar{r} between Bearing & Sole \bar{r} as required.
99	Pier 12, Span 12, Girders 2, 3 & 6. Jack & clean bearings & install \bar{r} between Bearing & Sole \bar{r} as required.
168	Pier 12, Span 13, Girders 1, 3, 4 & 5. Jack & clean bearings & install \bar{r} between Bearing & Sole \bar{r} as required.
266	Pier 14, Span 14, Girder 4. Jack & clean bearings & install \bar{r} between Bearing & Sole \bar{r} as required.
170	Pier 16, Span 16, Girder 2. Jack & clean bearings & install \bar{r} between Bearing & Sole \bar{r} as required.
171	Pier 16, Span 17, Girders 2, 4, 5 & 6. Jack & clean bearings & install \bar{r} between Bearing & Sole \bar{r} as required.
175	Pier 19, Span 19, Girders 1, 3, 4, 5 & 7. Jack & clean bearings & install \bar{r} between Bearing & Sole \bar{r} as required.
110	Pier 22, Span 23, Girders 4, 5 & 6. Jack & clean bearings & install \bar{r} between Bearing & Sole \bar{r} as required.
189	Pier 20, Span 20, Girder 7. Jack & clean bearings & install \bar{r} between Bearing & Sole \bar{r} as required.
102	Pier 17, Span 18, between Girders 5 & 6. Web repair
119	Pier 4, Span 4, between Girders 7 & 8. Web repair
270	Pier 21, Span 22, between Girders 6 & 7. Web repair
43	Span 7, Panel Point 7. Seal as gaps full length. Replace damaged portion of seal.
81	Span 8, Panel Point 13. 8' of joint failed. Replace damaged portion of seal.
220	Span 9, Panel Point 30. 4' leaking in N. lane. Replace damaged portion of seal.
45	Pier 11. Spans 11 & 12, N. curb. 5' leaking. Replace damaged portion of seal.
169	Span 14, Pier 14. 15' of joint failed. Replace damaged portion of seal.
222	Span 16 & 17, Pier 16, N. end. 15' of joint failed. Replace damaged portion of seal.
47	Span 17 & 18, Pier 17. 20' leaking. Replace damaged portion of seal.
48	Span 18 & 19, Pier 18. 2' of joint failed. Replace damaged portion of seal.
49	Span 20 & 21, Pier 20. 2' leaking in lanes 1 & 2. Replace damaged portion of seal.
35	Spans 22 & 23, Pier 22. 3' of joint failed in lane 1. Replace damaged portion of seal.
224	Spans 23 & 24, Pier 23, N. end. Joint failed full length. Replace damaged portion of seal.
234	Pier 12, Spans 12 & 13 between Girders 1 & 3. 10' of joint failed. Replace damaged portion of seal.

ITEM 179 - MISSING GUARDRAIL BOLTS

Span	N. Rail	S. Rail
2	3	0
3	7	0
6	3	0
7	2	1
8	10	0
9	2	1
10	0	2
11	0	2
12	0	1
13	0	13
14	1	5
15	2	4
16	0	2
17	0	7
18	0	2
19	0	9
20	4	15
21	0	10
22	0	6
23	1	0
27	1	0

SN 099-0057 (W.B.) SCOPE OF WORK

03/10/14 NBIS Inspection Report Item No.	Location
239	Span 7 FB 7 Stringers 1 thru 6. Replace 12 deteriorated bolts at stringer bottom flange to bearing connection.
166	Span 8 FB 10 Stringers 2 & 3. Replace two bolts with missing nuts.
248	Span 8 FB 13 at Stringer 4. Replace two missing bolts.
186	Span 8 L20N-L22S at L20N bottom connection plate. Replace one bolt with loose nut.
260	Span 8 FB 26 Stringers 1 thru 7. Replace 14 deteriorated bolts at stringer bottom flange to bearing connection.
118	Span 9 FB 34 Stringer 4. Replace one missing bolt.
135	Pier 25 Girder 3. Replace one loose anchor bolt nut at bearing
283	Pier 25 Girder 5. Replace one loose anchor bolt nut at bearing.
310	Span 9 Girder 1. Replace one missing bolt.
102	Span 7 FB 10 between Stringers 1 & 2 and 6 & 7. Strengthen Floor Beam.
225	Span 8 FB 10 Stringer 7. Strengthen stringer.
273	Span 8 FB 10 Diaphragm btwn. Stringers 6 & 7. Replace Diaphragm.
277	Span 8 FB 16 Panel 17 Stringer 7. Strengthen stringer.
119	Span 9 FB 34 between Stringers 4 and 5. Remove existing repair and strengthen Floor Beam.
123	Span 18 at Pier 17, 6'-10" east of Girder 3. Strengthen girder.
197	Span 9 L28N-L30S. Replace top connection plate at L30S. Strengthen L28N-L30S lateral bracing.
129	Span 21, Girder 7 at Pier 20. Jack & clean bearings & install \bar{r} between Bearing & Sole \bar{r} as required.
131	Span 22, Girder 5 at Pier 22. Jack & clean bearings & install \bar{r} between Bearing & Sole \bar{r} as required.
206	Span 14, Girder 4 at Pier 14. Jack & clean bearings & install \bar{r} between Bearing & Sole \bar{r} as required.
221	Span 22, Girder 7 at Pier 22. Jack & clean bearings & install \bar{r} between Bearing & Sole \bar{r} as required.
223	Span 27, Girder 1 at E. Abut. Jack & clean bearings & install \bar{r} between Bearing & Sole \bar{r} as required.
236	Span 4, Girder 6 at Pier 3. Jack & clean bearings & install \bar{r} between Bearing & Sole \bar{r} as required.
282	Span 23, Girder 7 at Pier 22. Jack & clean bearings & install \bar{r} between Bearing & Sole \bar{r} as required.
285	Span 3, Girder 2 at Pier 3. Jack & clean bearings & install \bar{r} between Bearing & Sole \bar{r} as required.
235	Span 3, Girder 3 at Pier 3. Jack & clean bearings & install \bar{r} between Bearing & Sole \bar{r} as required.
79A	Span 5, Girder 6 at Pier 5. Jack & clean bearings & install \bar{r} between Bearing & Sole \bar{r} as required.
317	Span 11, Girder 3 at Pier 10. Jack & clean bearings & install \bar{r} between Bearing & Sole \bar{r} as required.
318	Span 11, Girder 7 at Pier 10. Jack & clean bearings & install \bar{r} between Bearing & Sole \bar{r} as required.
319	Span 12, Girder 4 & 5 at Pier 12. Jack & clean bearings & install \bar{r} between Bearing & Sole \bar{r} as required.
324	Span 15, Girder 5 at Pier 14. Jack & clean bearings & install \bar{r} between Bearing & Sole \bar{r} as required.
330	Span 21, Girder 6 at Pier 20. Jack & clean bearings & install \bar{r} between Bearing & Sole \bar{r} as required.
333	Span 22, Girder 8 at Pier 22. Jack & clean bearings & install \bar{r} between Bearing & Sole \bar{r} as required.
334	Span 22, Girder 9 at Pier 22. Jack & clean bearings & install \bar{r} between Bearing & Sole \bar{r} as required.
335	Span 23, Girder 10 at Pier 23. Jack & clean bearings & install \bar{r} between Bearing & Sole \bar{r} as required.

03/10/14 NBIS Inspection Report Item No.	Location
103	Span 8, U13N-U14N. Repair Guide Pin at U13N
175	Span 8, U13S-U14S. Repair Guide Pin at U13S
237	Span 6, Diaph. btwn. Girder 6 & 7 at Pier 6. Strengthen diaphragm.
271	Span 6, Diaph. btwn. Girder 7 & 8 at Pier 6. Strengthen diaphragm.
99	Span 7, FB 7, Stringer 1. Strengthen Stringer.
181	Span 8, Stringer 4, Panel 17, 1'-9" from FB 16. Strengthen Stringer.
227	Span 8, FB 20, Panel 20, Stringer 1. Strengthen Stringer.
106	Span 8, FB 26, Panel 26, Stringer 2. Strengthen Stringer
288	Span 3, Diaphragm between Girder 9 & 10 at Pier 3. Replace Diaphragm.
211	Span 18, Diaphragm between Girder 3 & 4 at Pier 17. Strengthen Diaphragm.
212	Span 18, Diaphragm between Girder 7 & 8 at Pier 17. Strengthen both ends of Diaphragm.
213	Span 18, Diaphragm between Girder 8 & 9 at Pier 17. Strengthen Diaphragm.
79	Span 20, Diaphragm between Girder 9 & 10 at Pier 19. Strengthen Diaphragm.
210	Span 17, Diaphragm between Girder 3 & 4 at Pier 17. Strengthen Diaphragm.
321	Span 14, Diaphragm between Girder 9 & 10 at Pier 13. Strengthen Diaphragm.
332	Span 22, Diaphragm between Girder 8 & 9 at Pier 21. Strengthen Diaphragm.
165	Span 8, FB 10, Stringer 1. Strengthen Stringer.
276	Span 8, L12S-L13S. Strengthen lower chord.
154	Span 7, L0S-L2N. Replace Top & Bottom connector plate & replace angles.
185	Span 8, FB 20, Panel 20, Stringer 7. Strengthen Stringer.
303	Span 8, FB 23, Panel 24, Stringer 2. Strengthen Stringer.
304	Span 8, FB 23, Panel 24, Stringer 5. Strengthen Stringer.
305	Span 8, FB 23, Panel 24, Stringer 6. Strengthen Stringer.
37	West abutment, Span 1, 20' leaking. Replace damaged portion of seal.
38	Spans 4 & 5, Pier 4, 15' leaking. Replace damaged portion of seal.
45	Span 8, Panel Point 13, 28' of joint failed. Replace damaged portion of seal.
48	Span 8, Panel Point 16, 4' of joint failed. Replace damaged portion of seal.
50	Span 8, Panel Point 20, 4' of joint failed. Replace damaged portion of seal.
52	Spans 8 & 9, Pier 8, 4' of joint failed. Replace damaged portion of seal.
320	Spans 12 & 13, Pier 12, 8' of joint failed. Replace damaged portion of seal.
266	Spans 14 & 15, Pier 14, 20' of joint failed. Replace damaged portion of seal.
57	Spans 18 & 19, Pier 18, Leaking full length. Replace damaged portion of seal.
60	Spans 21 & 22, Pier 21, 6' leaking. Replace damaged portion of seal.
61	Spans 22 & 23, Pier 22, 8' leaking. Replace damaged portion of seal.
336	Spans 24 & 25, Pier 24, joint failed. Replace damaged portion of seal.

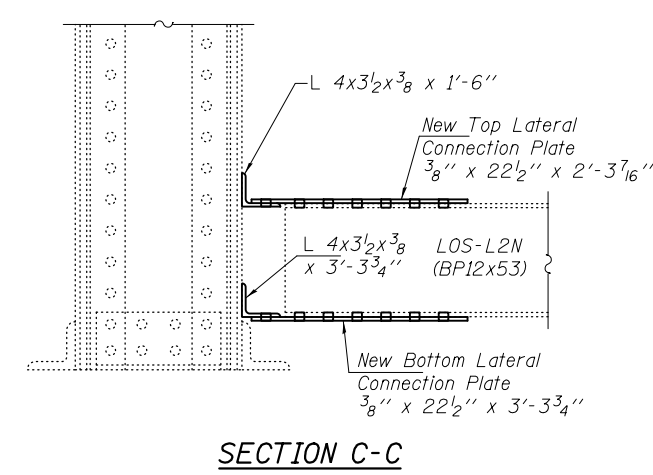
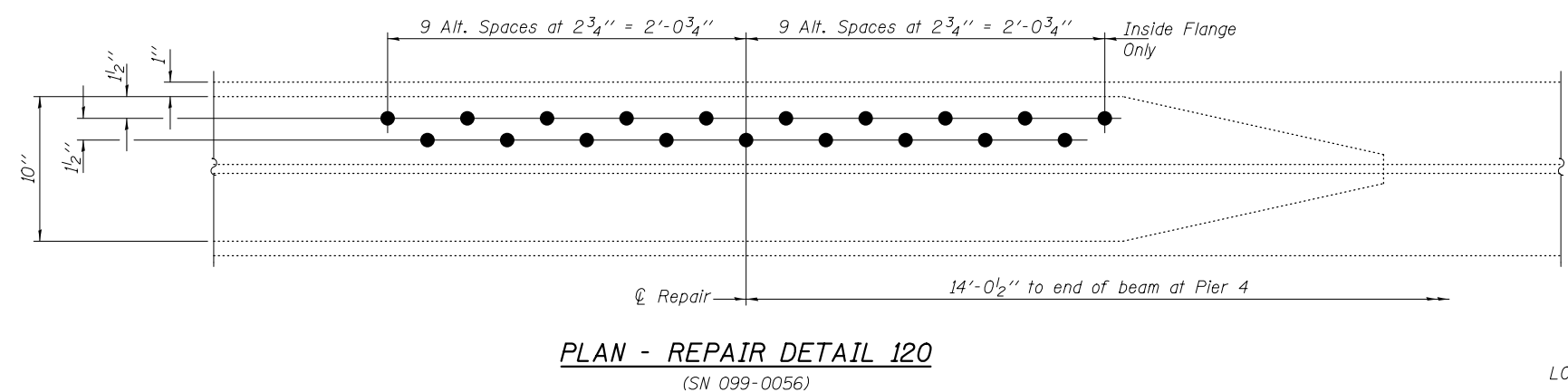
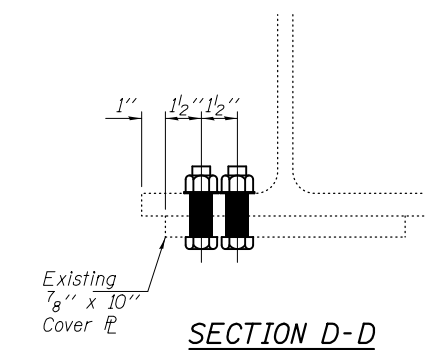
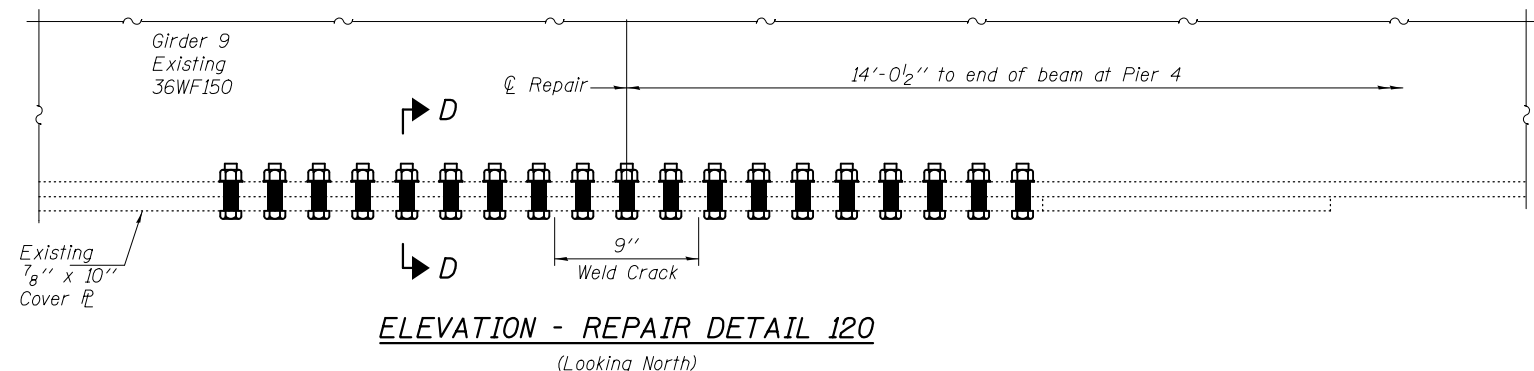
DESIGNED - GGE
 CHECKED - TLC
 DRAWN - Kyle M. Steffen/balva
 CHECKED - GGE TLC

EXAMINED *Timothy A. [Signature]* DATE - OCTOBER 17, 2014
 ACTING ENGINEER OF STRUCTURAL SERVICES
 PASSED *Carl [Signature]*
 ACTING ENGINEER OF BRIDGES AND STRUCTURES

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

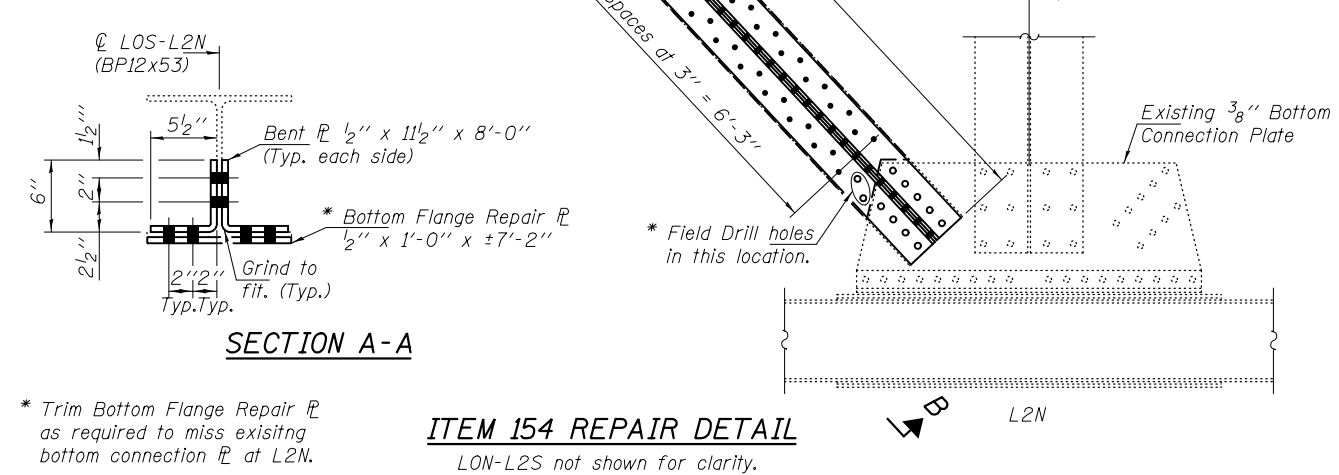
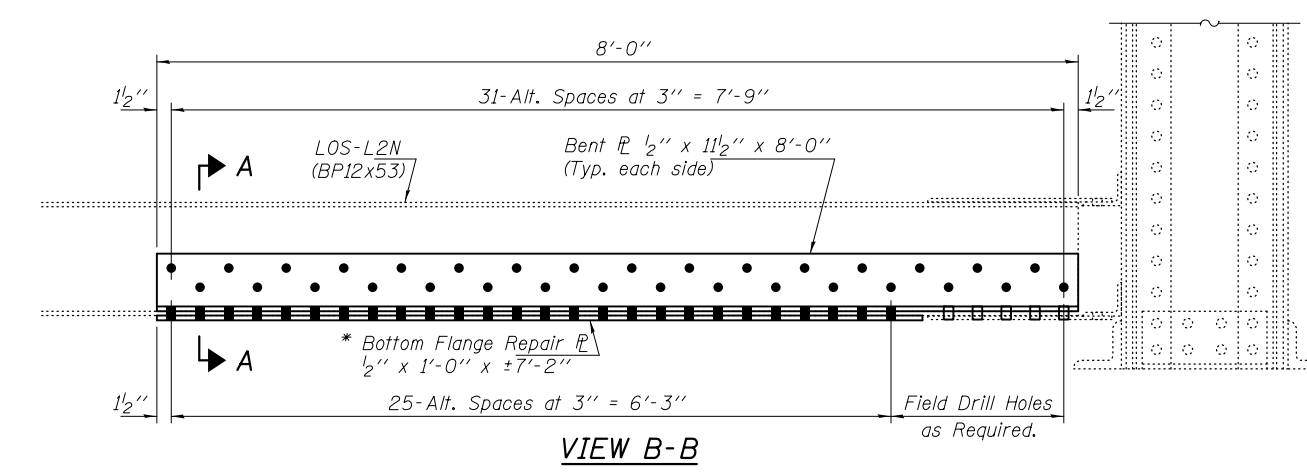
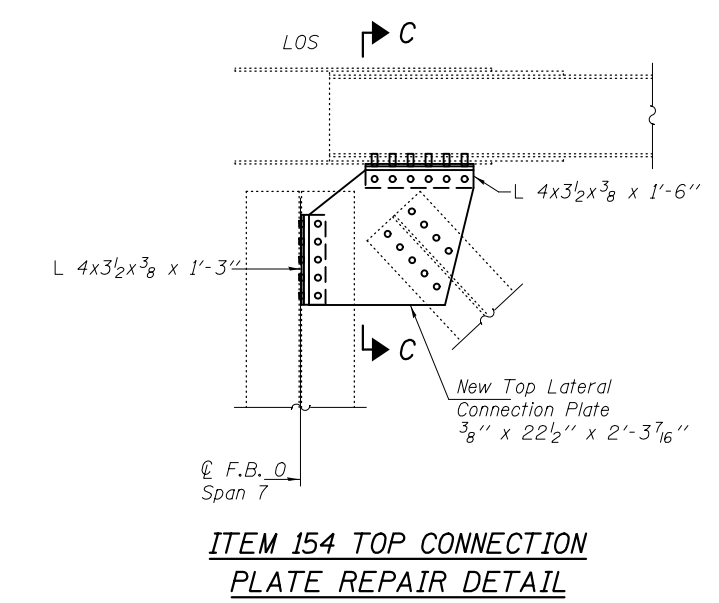
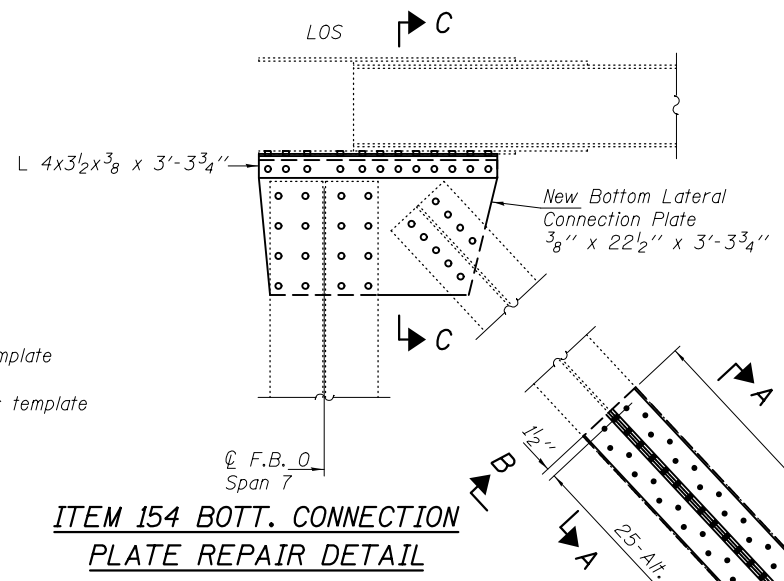
SCOPE OF WORK
 SN 099-0057 (W.B.)
 SHEET NO. 5 OF 24 SHEETS

F.A.1 RTE. 80	SECTION 99-3-BR-2	COUNTY WILL	TOTAL SHEETS 57	SHEET NO. 8
CONTRACT NO. 60Y64				ILLINOIS FED. AID PROJECT

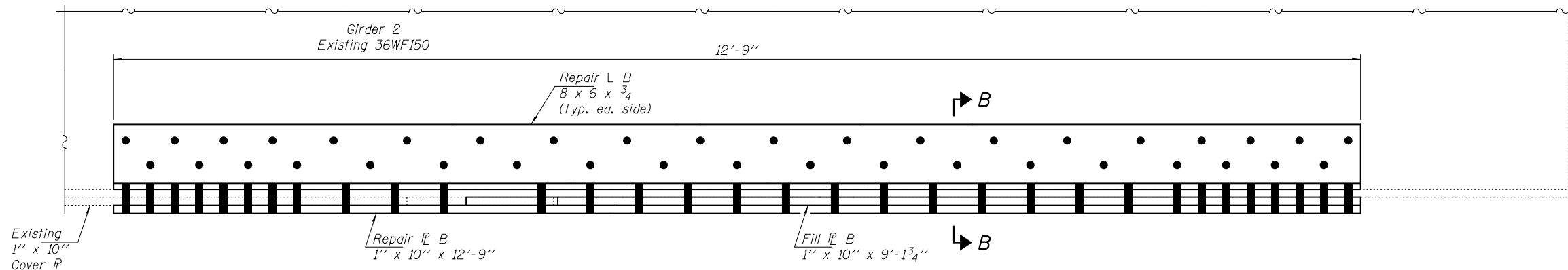


BOLT HOLE LEGEND

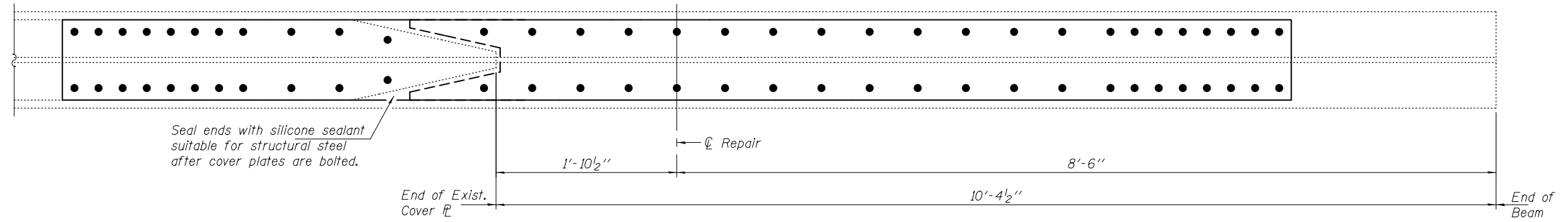
- - Use holes in new steel as template
- - Use holes in existing steel as template



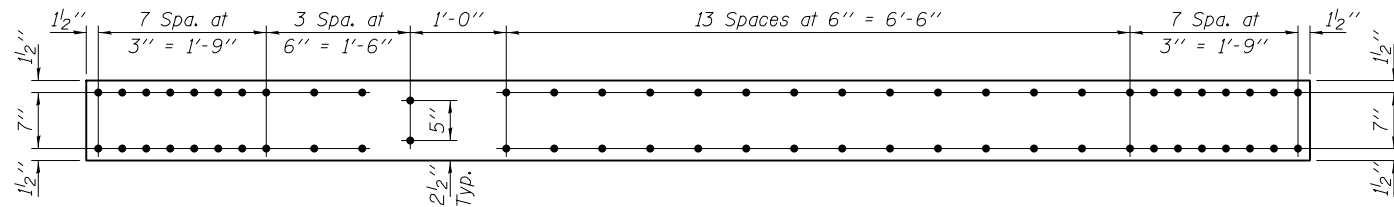
DESIGNED - GGE	EXAMINED - <i>Timothy A. Daulton</i>	DATE - OCTOBER 17, 2014	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REPAIR DETAIL 120 & 154 SN 099-0056 & 0057	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHECKED - TLC	ACTING ENGINEER OF STRUCTURAL SERVICES				80	99-3-BR-2	WILL	57	9
DRAWN - Kyle M. Steffen/balva	PASSED - <i>Carl Berger</i>				CONTRACT NO. 60Y64				
CHECKED - GGE TLC	ACTING ENGINEER OF BRIDGES AND STRUCTURES				ILLINOIS FED. AID PROJECT				



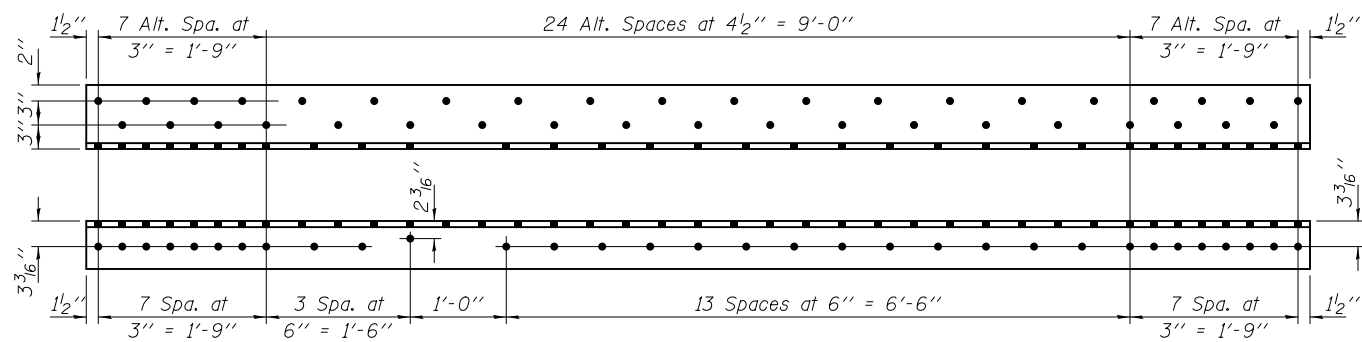
ELEVATION - REPAIR DETAIL 180
(Looking North)



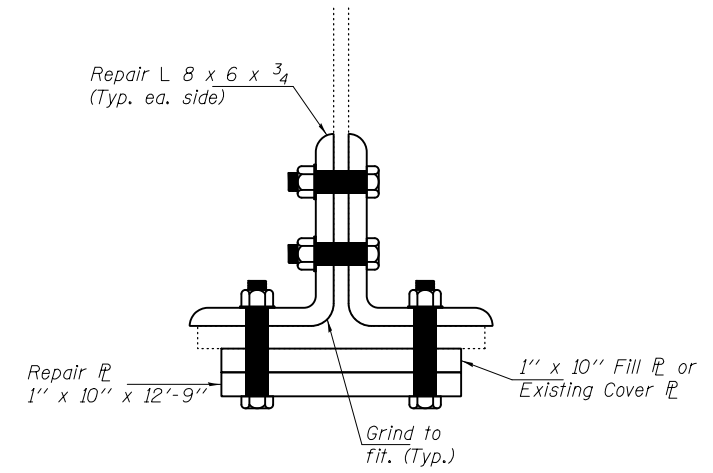
PLAN - REPAIR DETAIL 180
Repair Angles not shown for clarity.



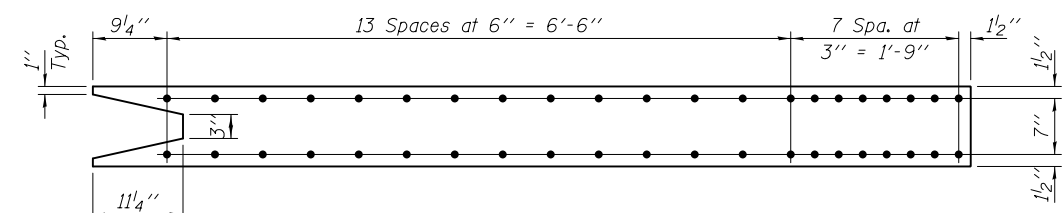
REPAIR PLATE B
P 1" x 10" x 12'-9" (1-Required)



REPAIR ANGLE B
L 8 x 6 x 3/4 x 12'-9" (2-Required)

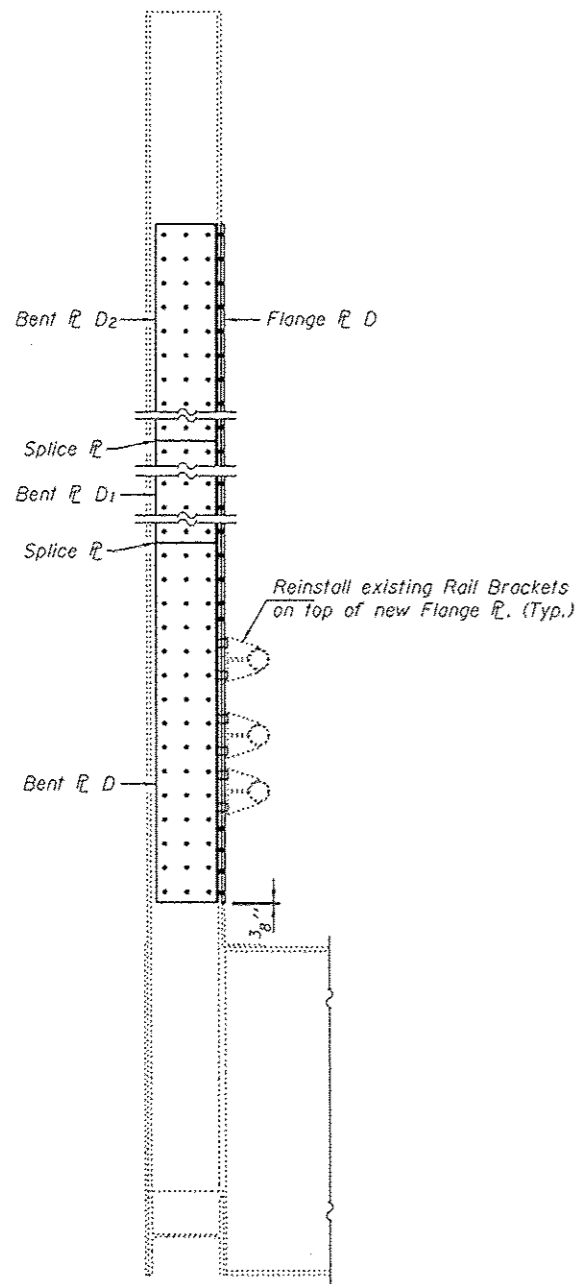


SECTION B-B

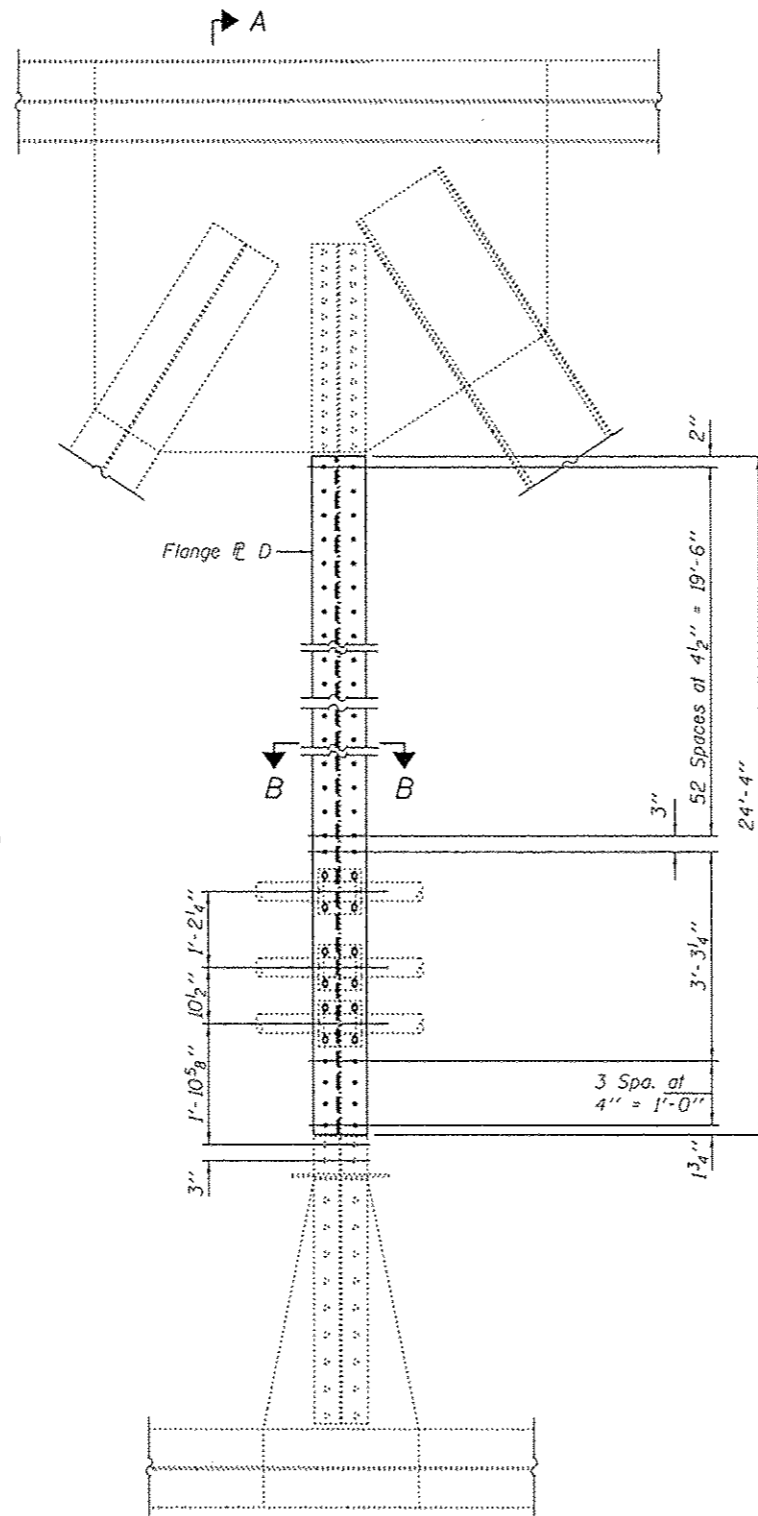


FILL PLATE B
P 1" x 10" x 9'-1 3/4" (1-Required)

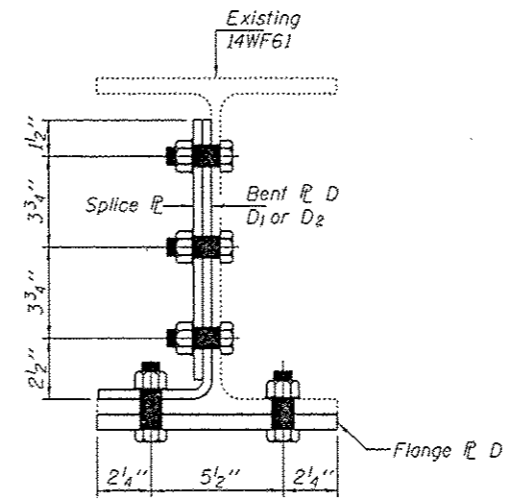
DESIGNED - GGE	EXAMINED - <i>Timothy A. D... ACTING ENGINEER OF STRUCTURAL SERVICES</i>	DATE - OCTOBER 17, 2014	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		REPAIR DETAIL 180 SN 099-0056		F.A.I. RTE. 80	SECTION 99-3-BR-2	COUNTY WILL	TOTAL SHEETS 57	SHEET NO. 10
CHECKED - TLC	PASSED - <i>Carl... ACTING ENGINEER OF BRIDGES AND STRUCTURES</i>						CONTRACT NO. 60Y64				ILLINOIS FED. AID PROJECT
DRAWN - Kyle M. Steffen/balva			SHEET NO. 7 OF 24 SHEETS								
CHECKED - GGE TLC											



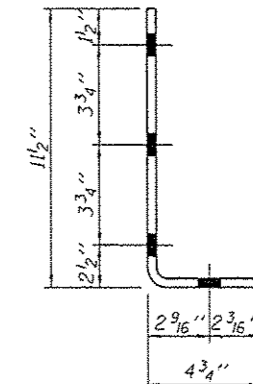
VIEW A-A



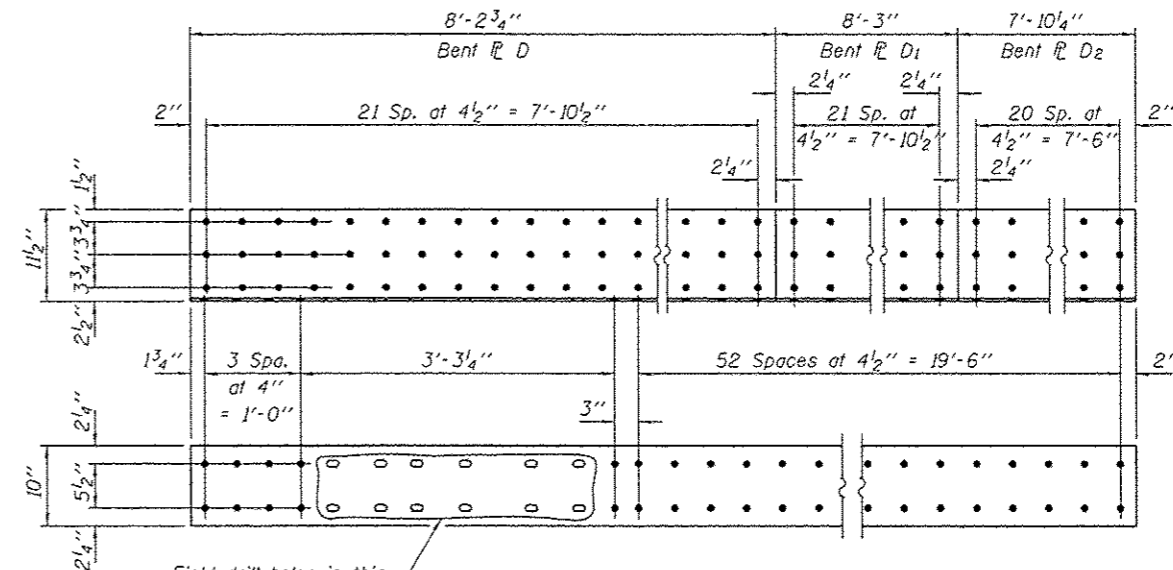
REPAIR 155 AT U22N-L22N
(Looking North)



SECTION B-B

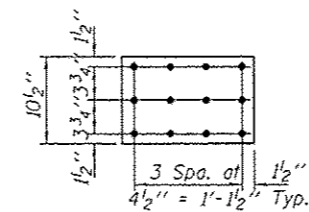


SECTION THRU BENT R D, D1 & D2



BENT R D, D1 & D2 & FLANGE R D

- Bent R D, $\frac{3}{8}$ " x 1'-4 1/4" x 8'-2 3/4", 1 Required
- Bent R D1, $\frac{3}{8}$ " x 1'-4 1/4" x 8'-3", 1 Required
- Bent R D2, $\frac{3}{8}$ " x 1'-4 1/4" x 7'-10 1/4", 1 Required
- Flange R D, $\frac{5}{8}$ " x 10" x 24'-4", 1 Required



SPLICE R
R $\frac{3}{8}$ " x 10 1/2" x 1'-4 1/2"
(2 Required)

DESIGNED - GGE
CHECKED - TLC
DRAWN - Kyle M. Steffen/balvo
CHECKED - GGE TLC

EXAMINED
ACTING ENGINEER OF STRUCTURAL SERVICES
PASSED
ACTING ENGINEER OF BRIDGES AND STRUCTURES

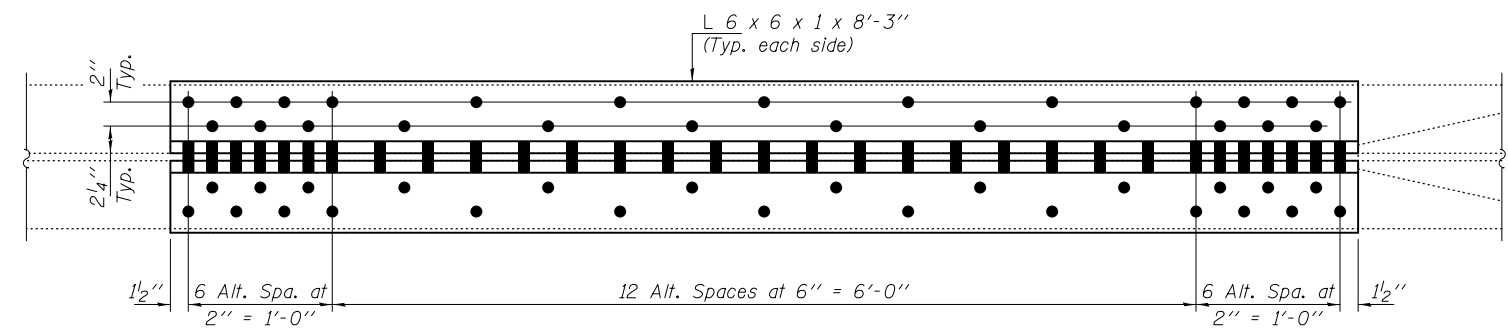
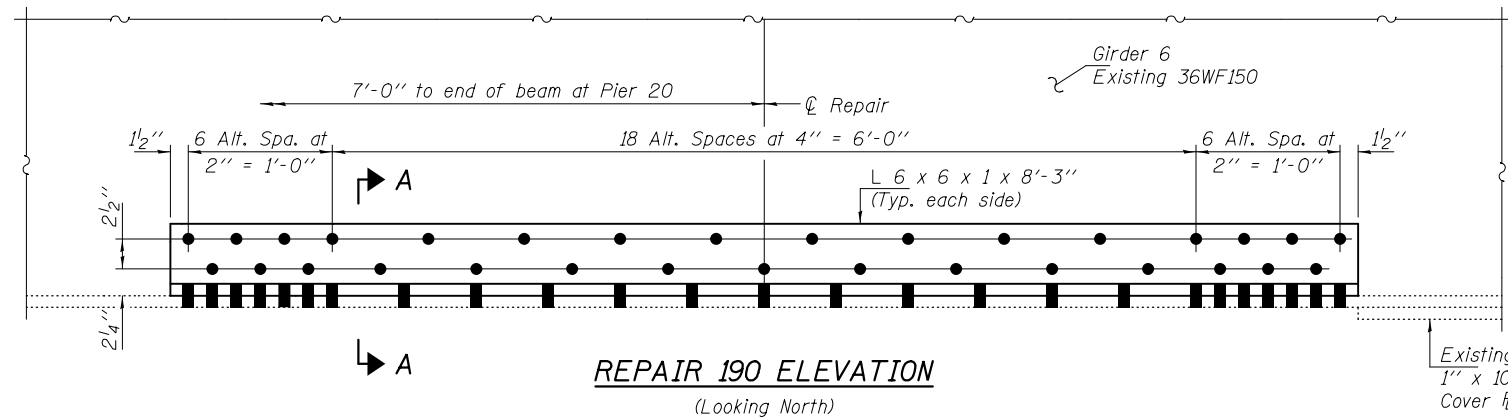
DATE - OCTOBER 17, 2014

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

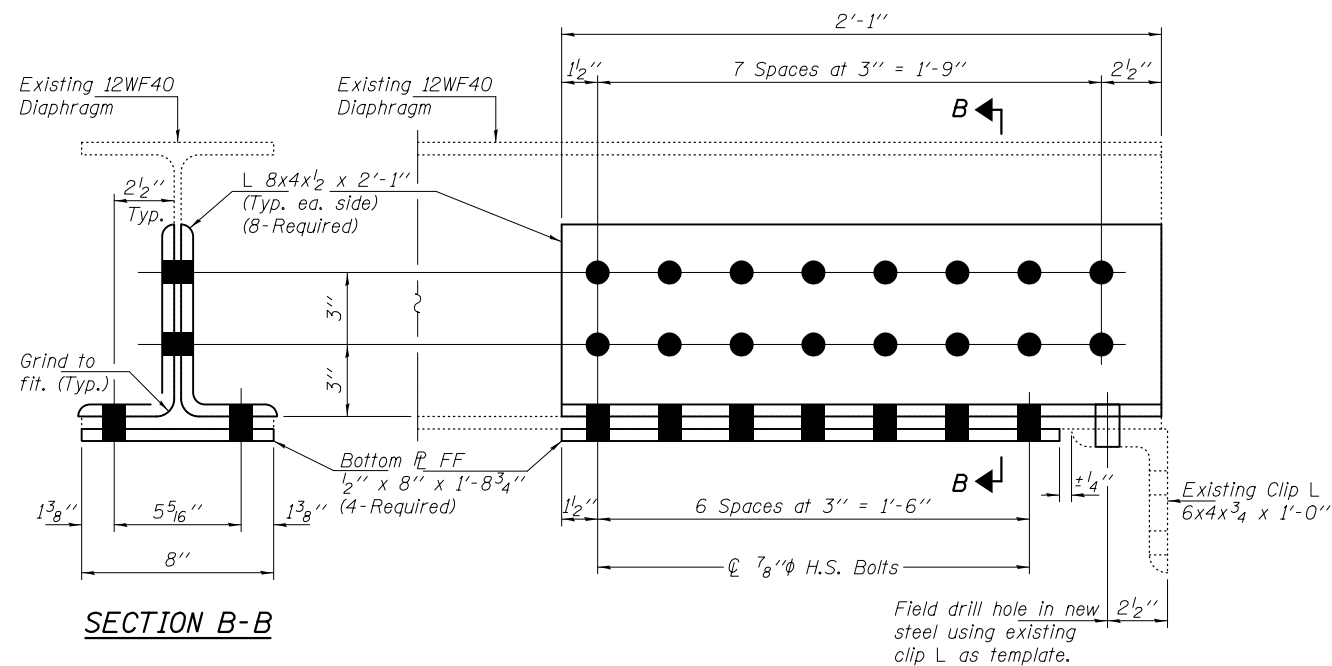
REPAIR DETAIL 155
SN 099-0056

SHEET NO. 8 OF 24 SHEETS

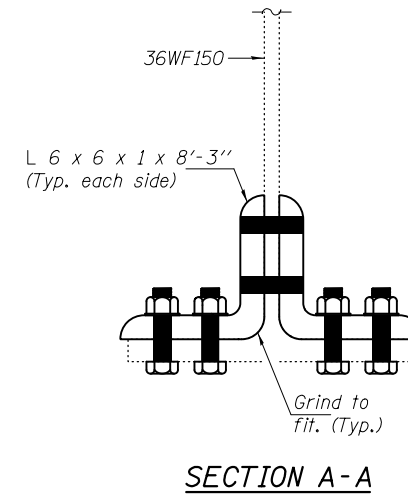
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-3-BR-2	WILL	57	11
CONTRACT NO. 60Y64				
ILLINOIS FED. AID PROJECT				



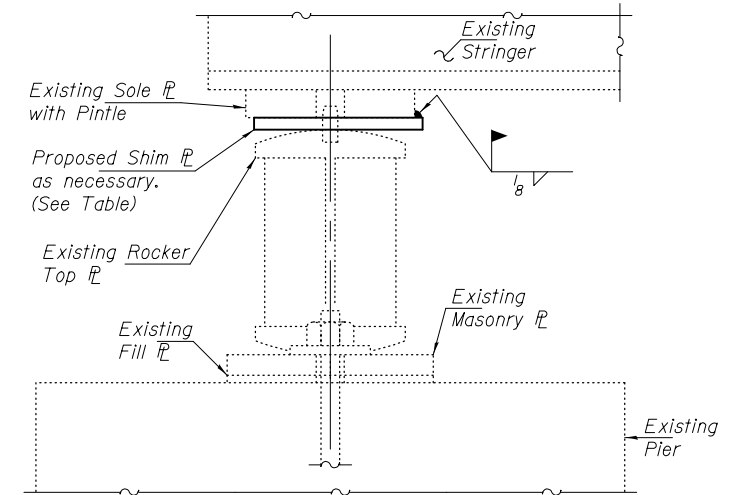
REPAIR 190 PLAN



REPAIR DETAIL 102, 119 & 270



SECTION A-A



REPAIR DETAIL 94, 95, 98, 99, 168, 266, 170, 171, 175, 110, 189

REPAIR PROCEDURE

1. Jack existing stringer 1/4" max.
2. Clean existing Bearing between Top of Rocker and Bottom of Sole PL, removing pack rust accumulation.
3. Lower Beams.
4. Provide shim between Sole PL and Rocker as necessary to ensure full Bearing contact between Sole PL and Rocker.

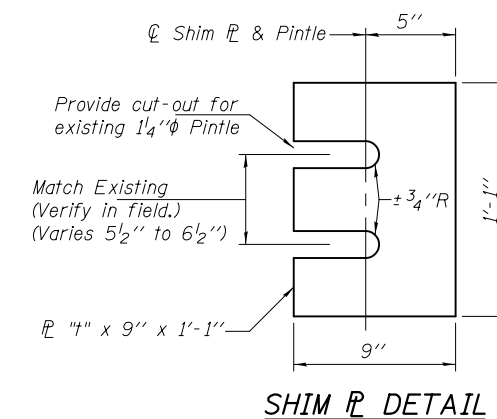
NOTES

1. See Special Provision Jack and Clean Bearings.
2. Cleaning existing Bearings and Shim PL's shall be included in the cost of Jack and Clean Bearings.
3. Shim PL's shall be AASHTO M270 Grade 36 (ASTM A36).

** Verify in field.

JACK & CLEAN BEARING SCHEDULE

NBIS Item No.	Location	Span	Girder	** "H"
94	Pier 10	11	1 & 3	1/8"
95	Pier 10	11	4, 5, 7	1/16"
98	Pier 11	11, 12	3, 6, 7, 8	1/4"
99	Pier 12	12	2, 3, 6	1/16"
168	Pier 12	13	1, 3, 4, 5	1/4"
266	Pier 14	14	4	1/16"
170	Pier 16	16	2	1/16"
171	Pier 16	17	2, 4, 5, 6	1/16"
175	Pier 19	19	1, 3, 4, 5, 7	±1/16"
110	Pier 22	23	4, 5, 6	1/16"
189	Pier 20	20	7	1/8"



SHIM PL DETAIL

DESIGNED - GGE
 CHECKED - TLC
 DRAWN - Kyle M. Steffen/balva
 CHECKED - GGE TLC

EXAMINED
 PASSED
 ACTING ENGINEER OF STRUCTURAL SERVICES
 ACTING ENGINEER OF BRIDGES AND STRUCTURES

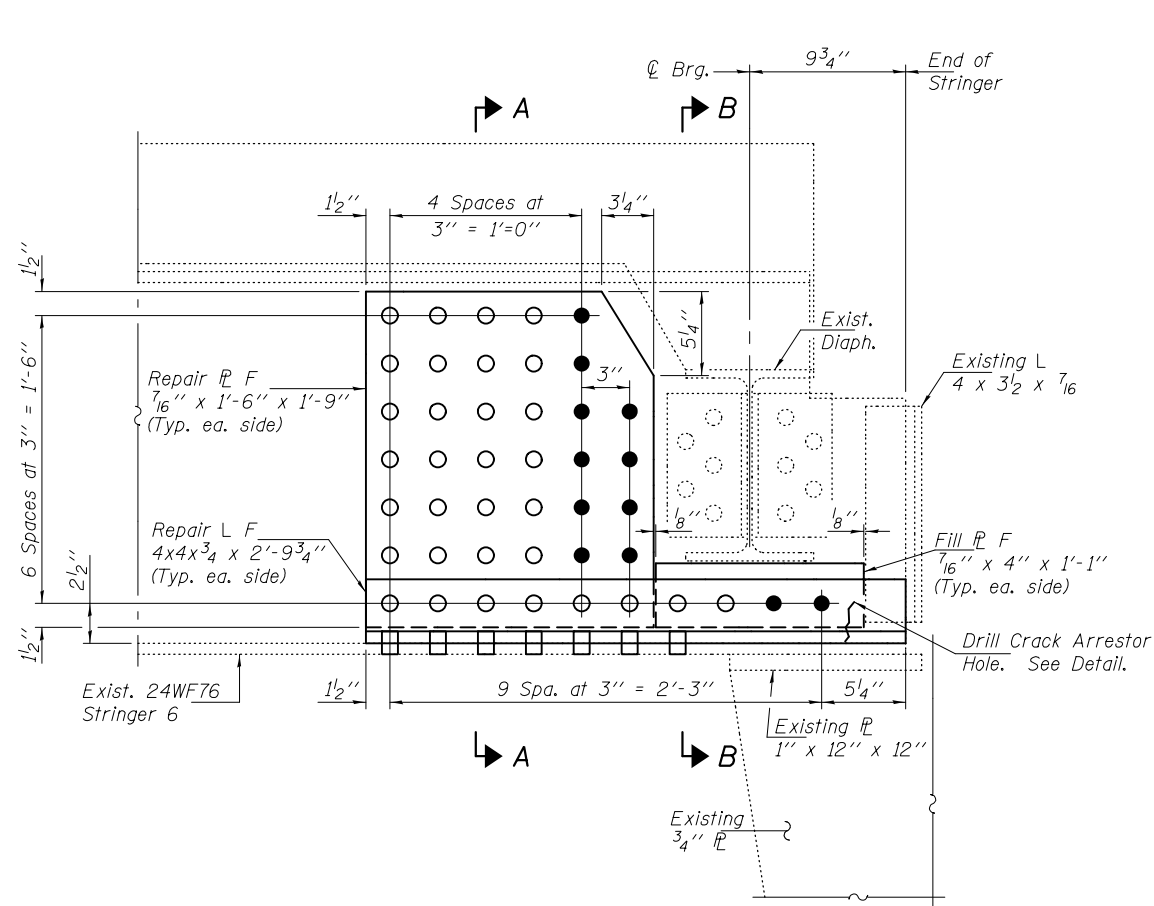
DATE - OCTOBER 17, 2014

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

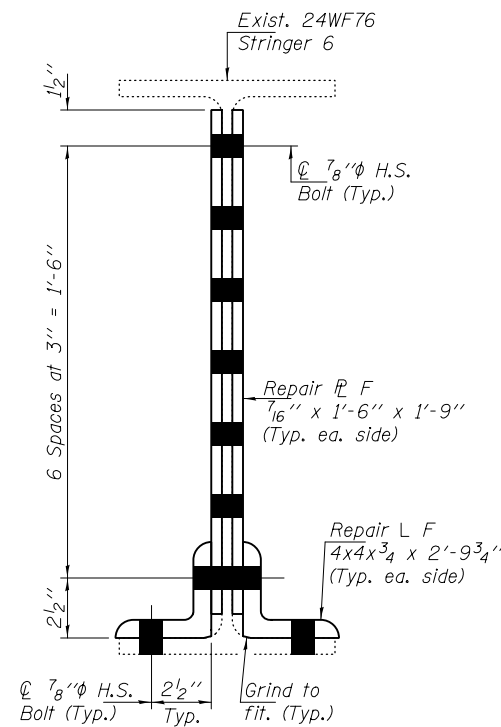
REPAIR DETAIL 190, 102, 119, 270, 94, 95, 98, 99,
 168, 266, 170, 171, 175, 110, 189
 SN 099-0056

SHEET NO. 9 OF 24 SHEETS

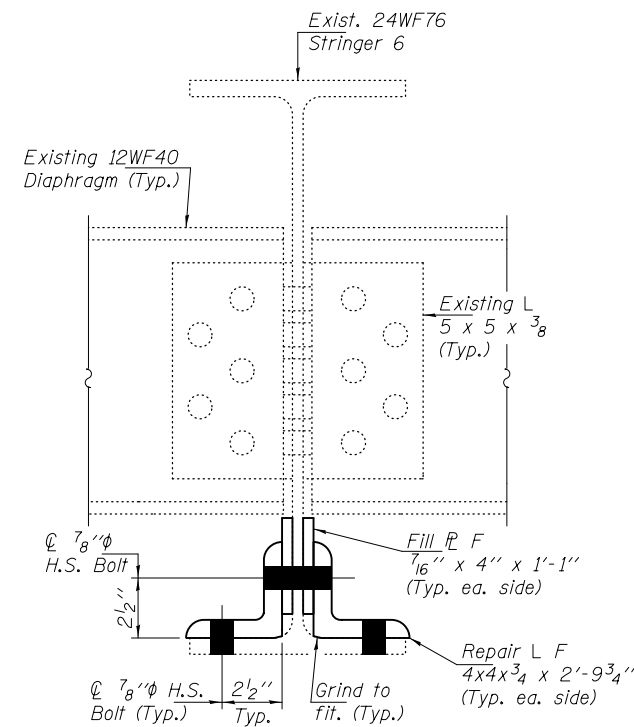
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-3-BR-2	WILL	57	12
CONTRACT NO. 60Y64			ILLINOIS FED. AID PROJECT	



REPAIR 20 ELEVATION



SECTION A-A
(Diaphragms & Clip L's not shown for clarity.)

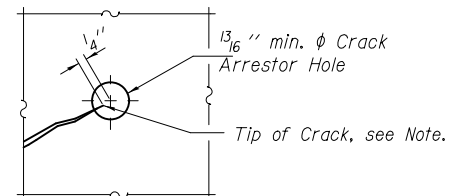


SECTION B-B

Notes:
Remove and dispose of existing repairs plates.
Place Crack Arrestor Hole at tip of crack if not present.

BOLT HOLE LEGEND

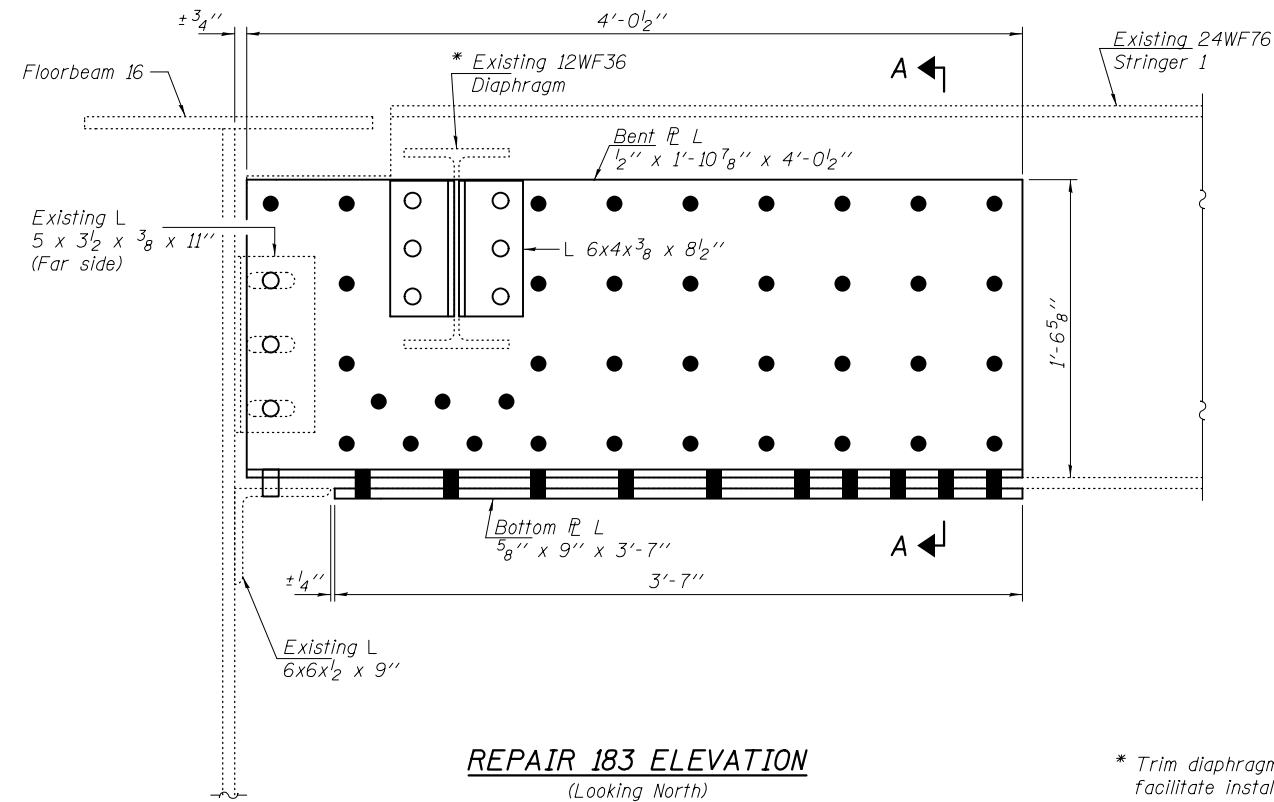
- - Field Drill holes using existing Stringer as template.
- - Shop or Field Drill holes.



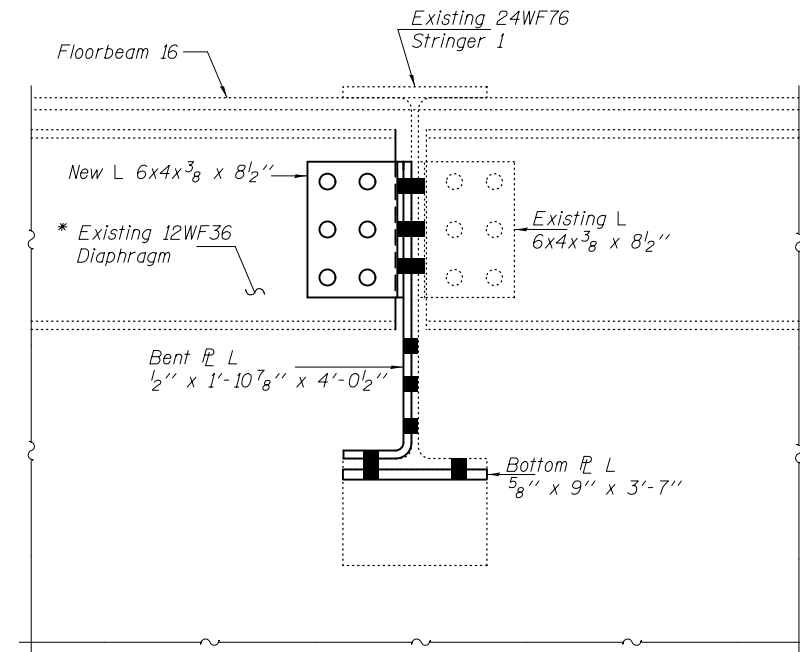
CRACK ARRESTOR HOLE DETAIL

Note:
Locate crack tip using liquid dye penetrant or magnetic particle testing. Drill 13/16 inch min. phi Crack Arrestor hole at the crack tip. After crack arrestor hole has been drilled, dye penetrant or magnetic particle testing shall be used to verify that the drilled hole has captured the crack tip. Cost included with Structural Steel Repair.

DESIGNED - GGE	EXAMINED - <i>Timothy A. Daulton</i> ACTING ENGINEER OF STRUCTURAL SERVICES	DATE - OCTOBER 17, 2014	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REPAIR DETAIL 20 SN 099-0056	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHECKED - TLC	PASSED - <i>Carl Meyer</i> ACTING ENGINEER OF BRIDGES AND STRUCTURES				80	99-3-BR-2	WILL	57	13
DRAWN - Kyle M. Steffen/balva					CONTRACT NO. 60Y64				
CHECKED - GGE TLC					ILLINOIS FED. AID PROJECT				
				SHEET NO. 10 OF 24 SHEETS					



REPAIR 183 ELEVATION
(Looking North)

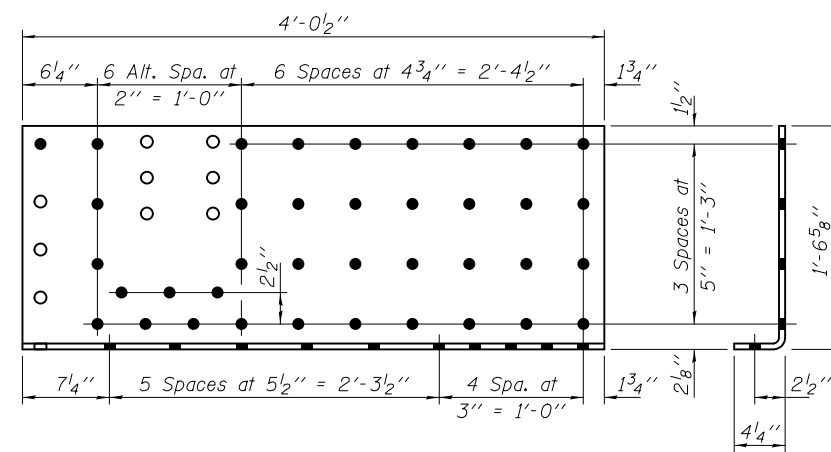


SECTION A-A

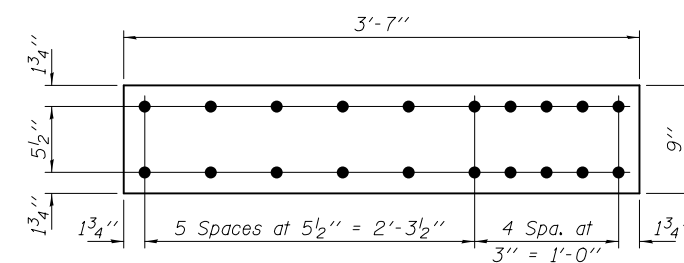
* Trim diaphragm as required to facilitate installation of Bent PL.

BOLT HOLE LEGEND

- - Use holes in new steel as template
- - Use holes in existing steel as template



BENT PLATE L
PL 1/2 x 1'-10 7/8 x 4'-0 1/2 (1-Req'd)



BOTTOM PLATE L
PL 5/8 x 9 x 3'-7 (1-Req'd)

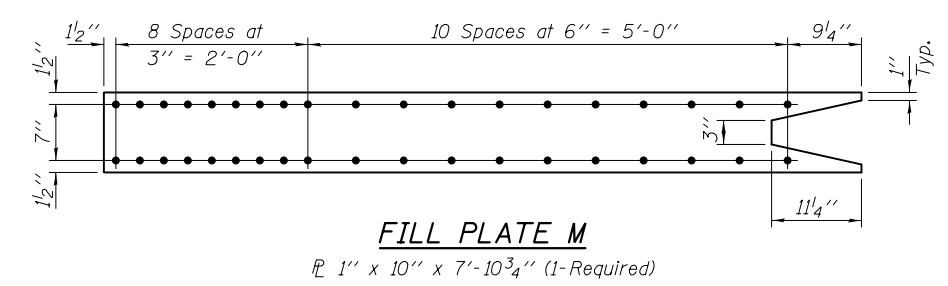
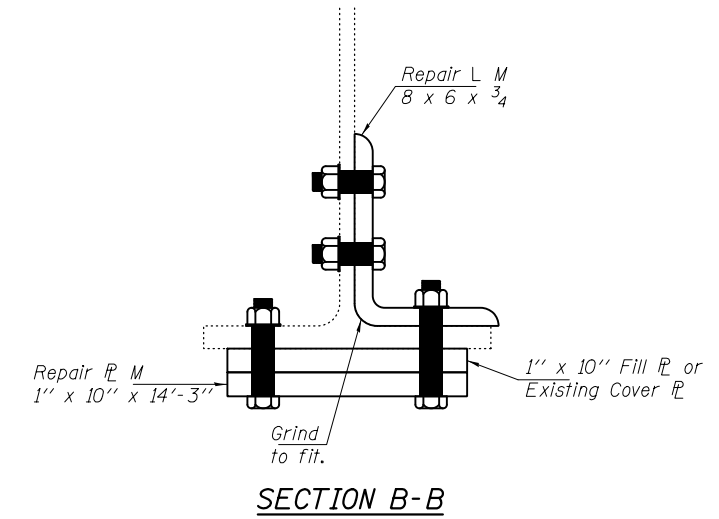
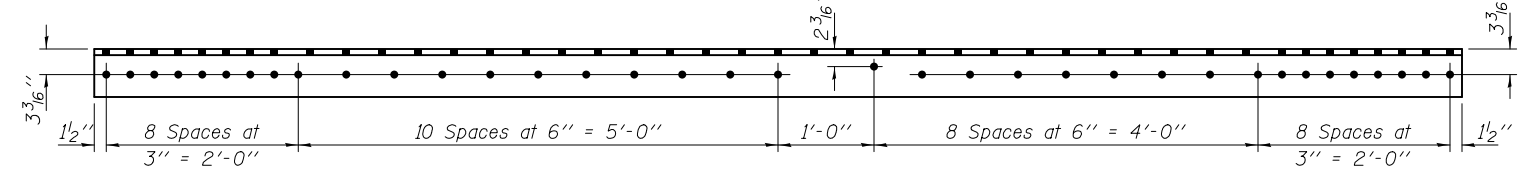
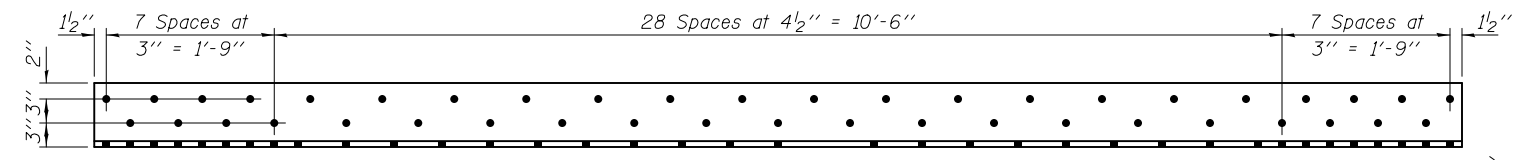
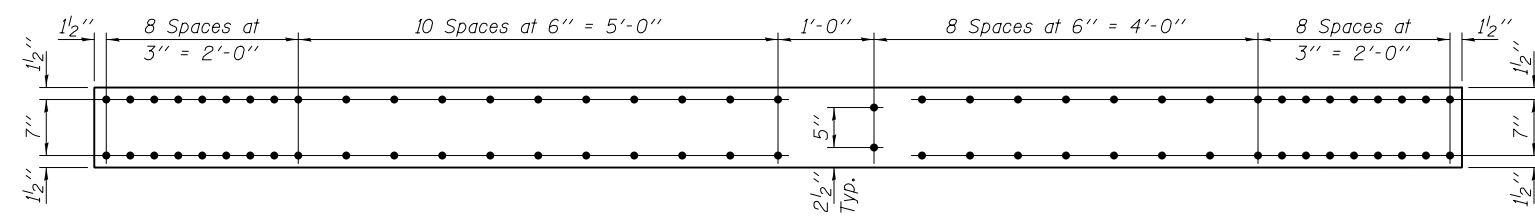
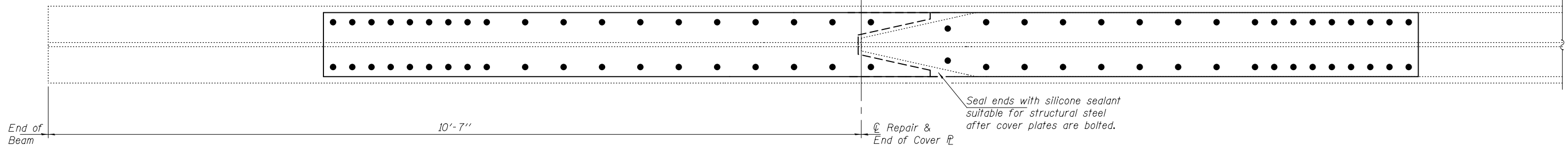
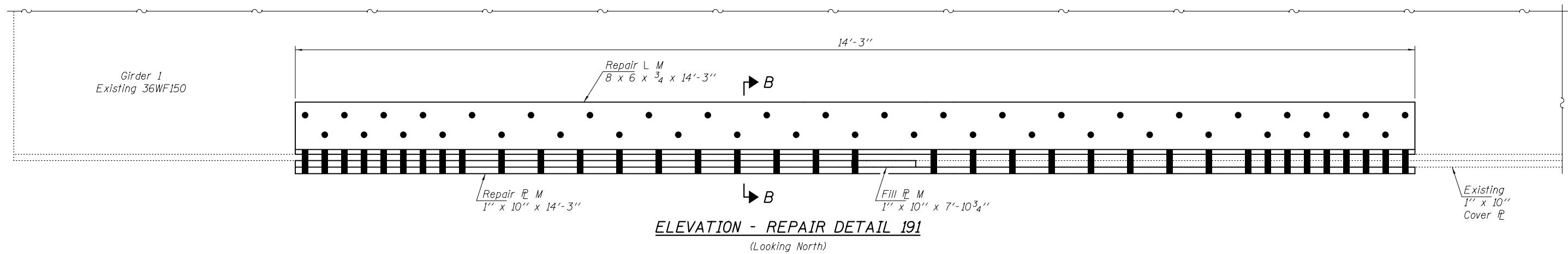
DESIGNED - GGE	EXAMINED
CHECKED - TLC	PASSED
DRAWN - Kyle M. Steffen/balva	
CHECKED - GGE TLC	

 ACTING ENGINEER OF STRUCTURAL SERVICES	DATE - OCTOBER 17, 2014
 ACTING ENGINEER OF BRIDGES AND STRUCTURES	

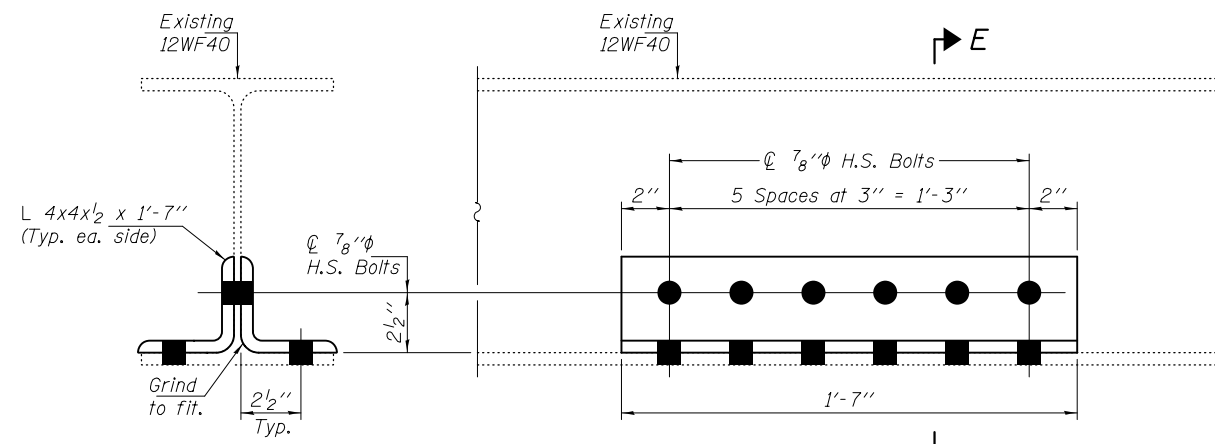
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REPAIR DETAIL 183
SN 099-0056
SHEET NO. 11 OF 24 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-3-BR-2	WILL	57	14
CONTRACT NO. 60Y64				
ILLINOIS FED. AID PROJECT				



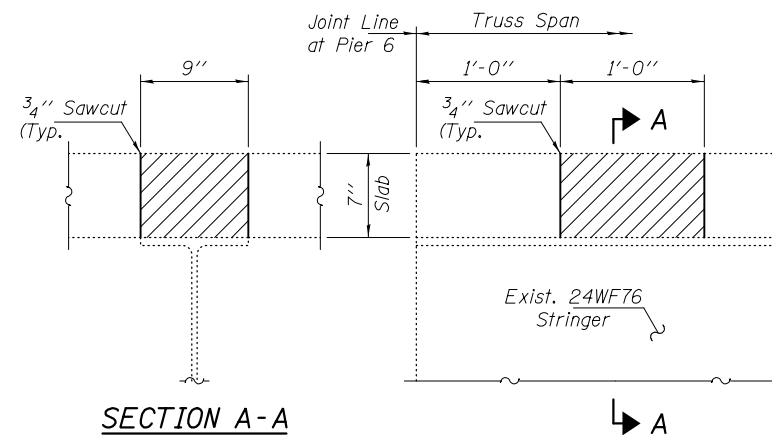
DESIGNED - GGE	EXAMINED - <i>Timothy A. Daulton</i> ACTING ENGINEER OF STRUCTURAL SERVICES	DATE - OCTOBER 17, 2014	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REPAIR DETAIL 191 SN 099-0056	F.A.I. RTE. 80	SECTION 99-3-BR-2	COUNTY WILL	TOTAL SHEETS 57	SHEET NO. 15
CHECKED - TLC	PASSED - <i>Carl Kreyer</i> ACTING ENGINEER OF BRIDGES AND STRUCTURES			SHEET NO. 12 OF 24 SHEETS	CONTRACT NO. 60Y64				
DRAWN - Kyle M. Steffen/balva					ILLINOIS FED. AID PROJECT				
CHECKED - GGE TLC									



SECTION E-E

REPAIR DETAIL 225

Span 3, Pier 3 between Girders 6 & 7

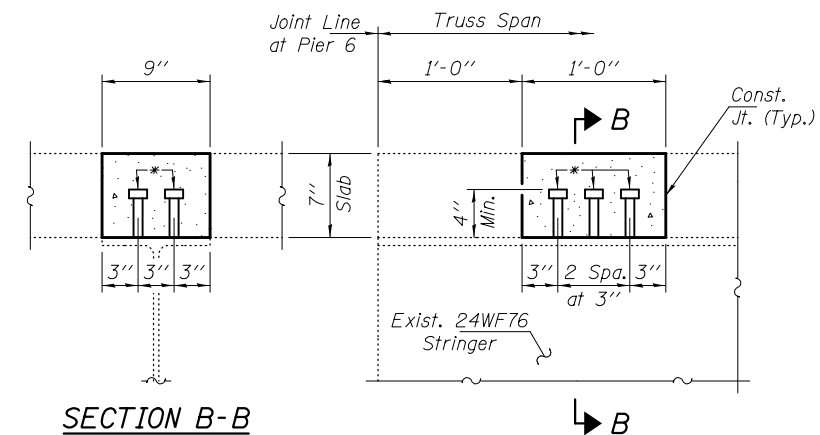


SECTION A-A

REPAIR 227 CONCRETE REMOVAL

Span 7, Stringer 1 & 2, Above Pier 6

Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Structural Steel Repair.



SECTION B-B

REPAIR 227 CONCRETE REPLACEMENT

Span 7, Stringer 1 & 2, Above Pier 6

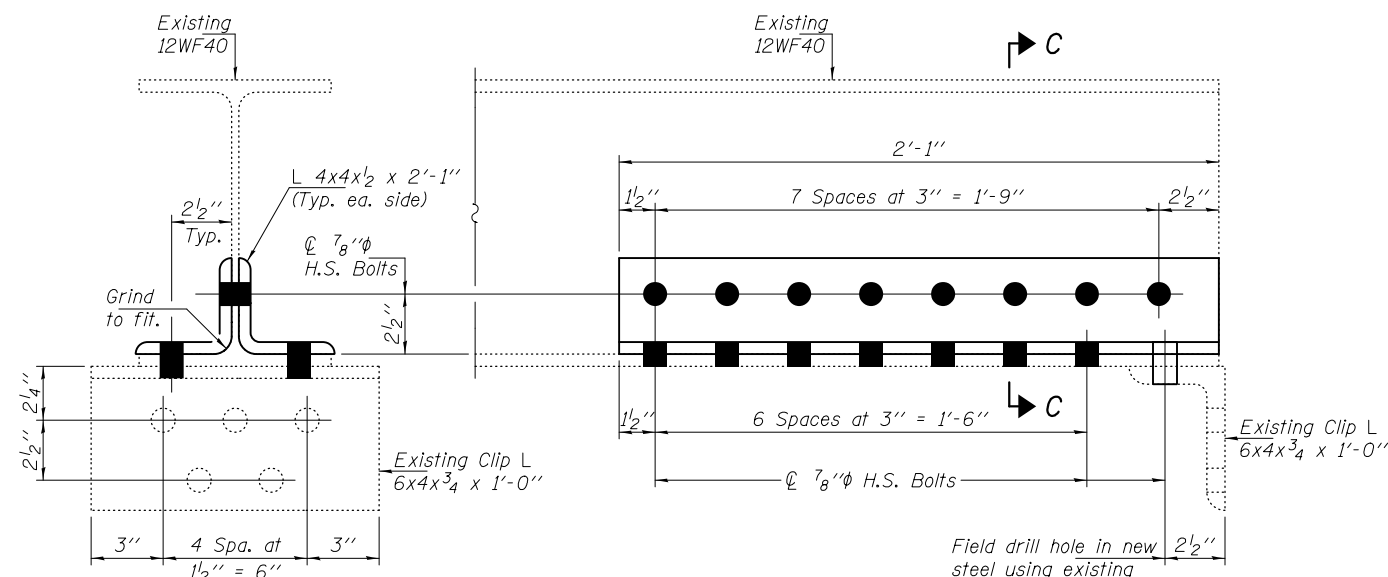
* 3/4" φ x 4" Granular or solid flux filled headed studs, automatically end welded to flange. (12-Required)

BOLT HOLE LEGEND

- - Use holes in new steel as template
- - Use holes in existing steel as template

Note:

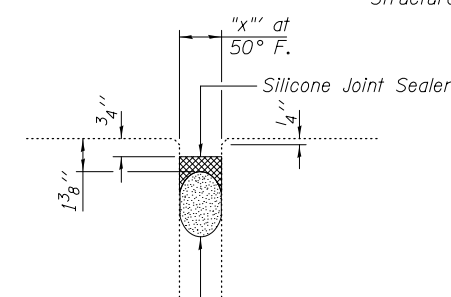
Hatched areas indicate areas of Concrete Removal. Cost of Concrete and Shear Studs included with Structural Steel Repair.



SECTION C-C

REPAIR 226 & 236 DETAIL

Item 226 - Span 4, Pier 4 between Girders 8 & 9
Item 236 - Span 20, Pier 19 between Girders 3 & 4



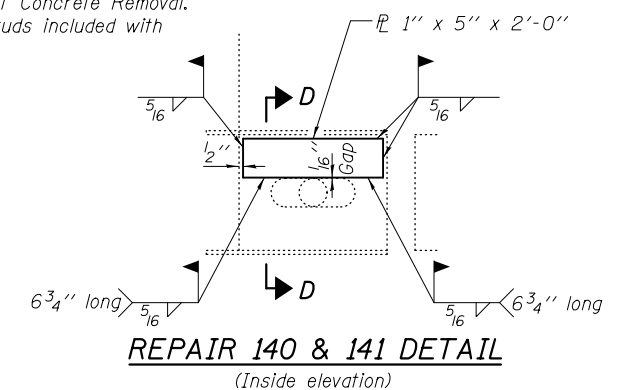
Backer Rod having a diameter 25% greater than the joint opening at the time of installation.

REPAIR 43, 81, 220, 45, 234, 169, 222, 47, 48, 49, 35 & 224 DETAILS

See Table T for Locations and dimension "x".

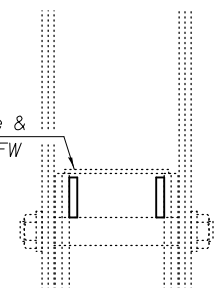
TABLE T
SN 099-0056

NBIS #	SPAN	LOCATION	JOINT DEFICIENCY	Dim. "x"
43	7	Panel Point 7	Seal has gaps (full length)	1 3/4"
81	8	Panel Point 13	8' of joint failed	2 3/4"
220	9	Panel Point 30	4' Leaking in N. Lane	2 3/4"
45	11 & 12	Pier 11, N. Curb	5' Leaking	1"
234	12 & 13	Pier 12, btwn. girder 1 & 3	10' of jt. failed (N. Lane)	2 3/4"
169	14	Pier 14	15' of joint failed	2 3/4"
222	16 & 17	Pier 16, N. End	15' of joint failed	2 3/4"
47	17 & 18	Pier 17	20' Leaking	1"
48	18 & 19	Pier 18	2' of joint failed	2"
49	20 & 21	Pier 20	2' Leaking, Lanes 1 & 2	2"
35	22 & 23	Pier 22	3' of jt. failed (Lane 1)	2"
224	23 & 24	Pier 23, N. End	Joint failed, full length	2 3/4"



REPAIR 140 & 141 DETAIL
(Inside elevation)

Remove & Reinstall using 1/4" CFW



SECTION D-D

DESIGNED - GGE
CHECKED - TLC
DRAWN - Kyle M. Steffen/balva
CHECKED - GGE TLC

EXAMINED
PASSED
ACTING ENGINEER OF BRIDGES AND STRUCTURES

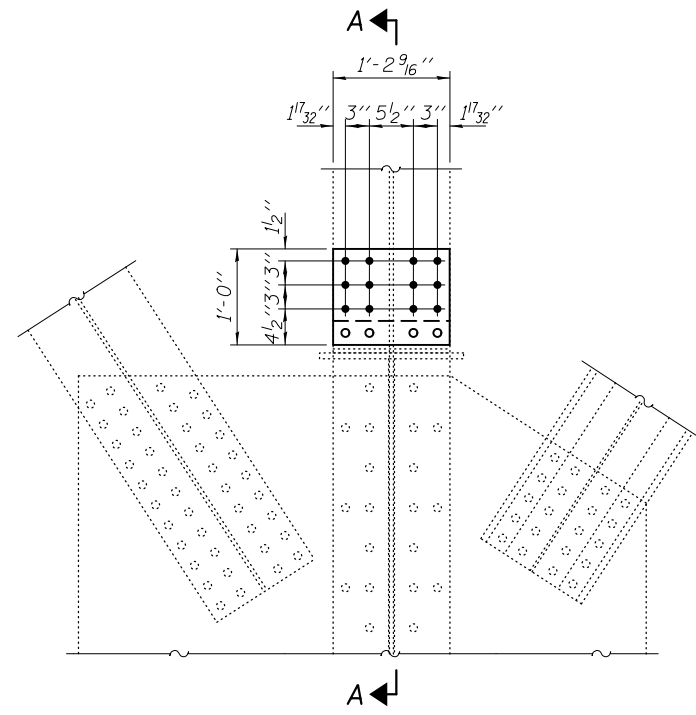
DATE - OCTOBER 17, 2014

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

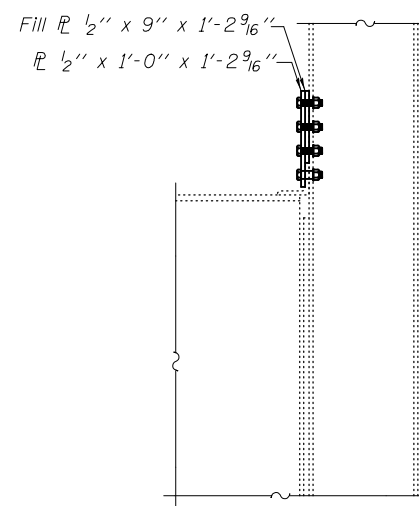
REPAIR DETAILS 225, 226, 236, 140, 141, 43, 81, 220, 45, 234, 169, 222, 47, 48, 49, 35, 224, 227
SN 099-0056

SHEET NO. 13 OF 24 SHEETS

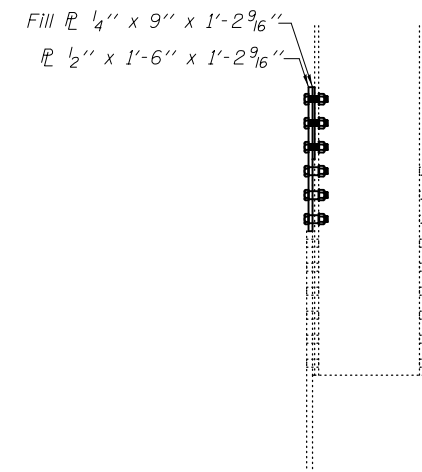
F.A.I. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO.
80 99-3-BR-2 WILL 57 16
CONTRACT NO. 60Y64
ILLINOIS FED. AID PROJECT



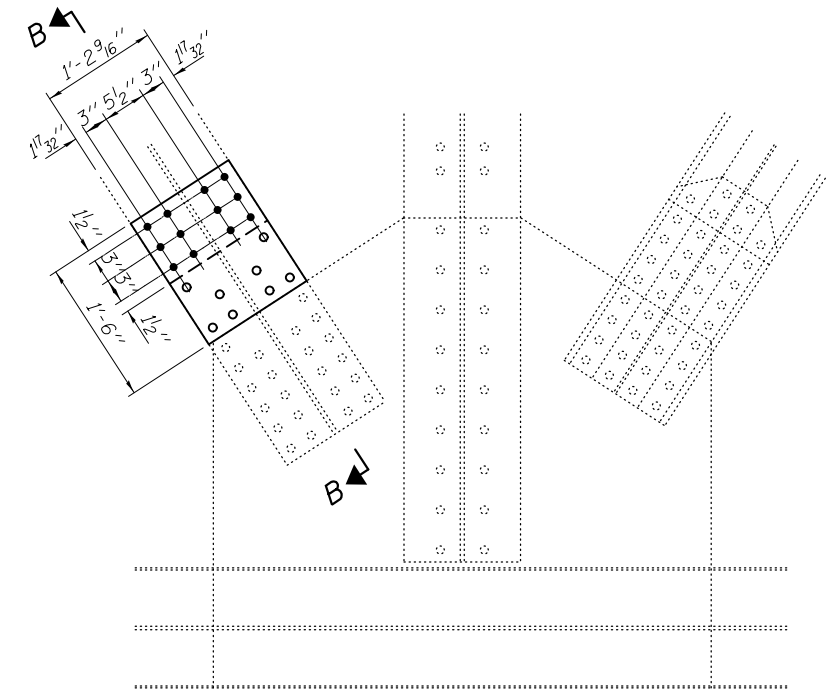
REPAIR 249 ELEVATION



SECTION A-A



SECTION B-B



REPAIR 252 ELEVATION

BOLT HOLE LEGEND

- - Use holes in new steel as template
- - Use holes in existing steel as template

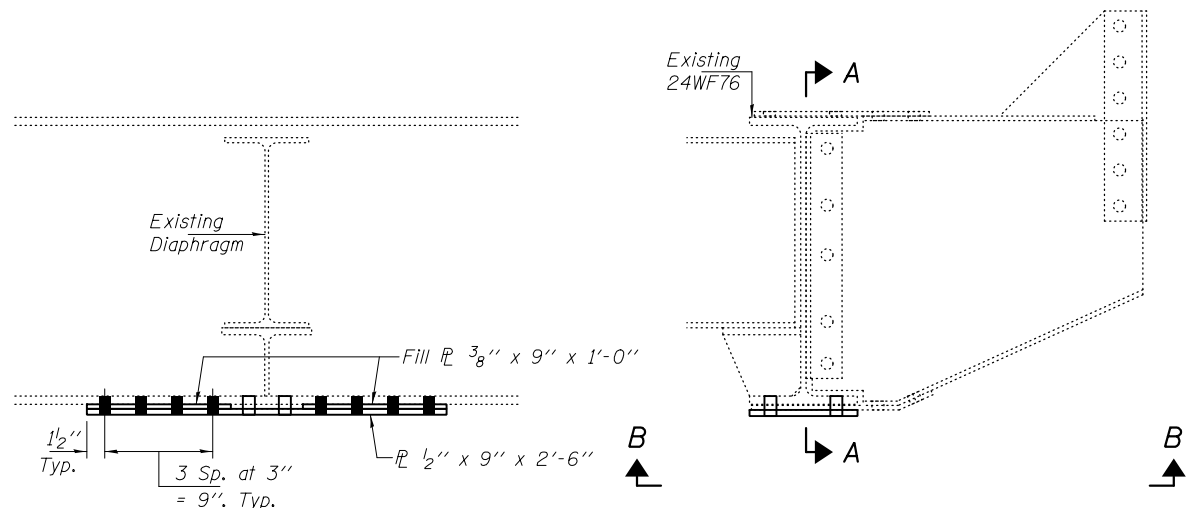
DESIGNED - GGE	EXAMINED	DATE - OCTOBER 17, 2014
CHECKED - TLC	<i>Timothy A. Daulton</i> ACTING ENGINEER OF STRUCTURAL SERVICES	
DRAWN - Kyle M. Steffen/balva	PASSED	
CHECKED - GGE TLC	<i>Carl Kreyer</i> ACTING ENGINEER OF BRIDGES AND STRUCTURES	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**REPAIR 249 & 252 DETAILS
SN 099-0056**

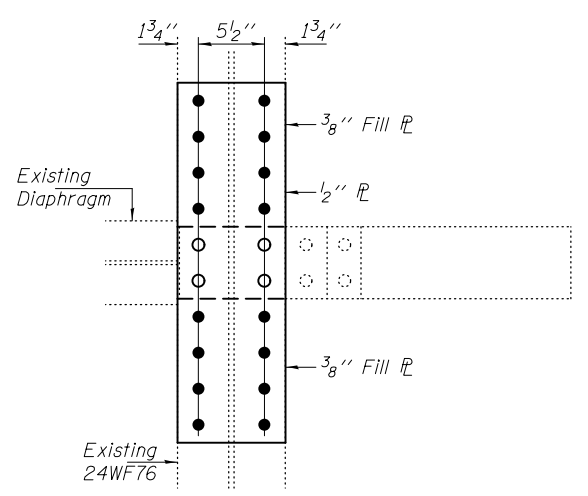
SHEET NO. 14 OF 24 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-3-BR-2	WILL	57	17
				CONTRACT NO. 60Y64
ILLINOIS FED. AID PROJECT				

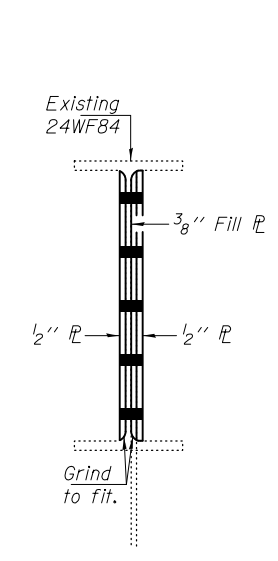


SECTION A-A

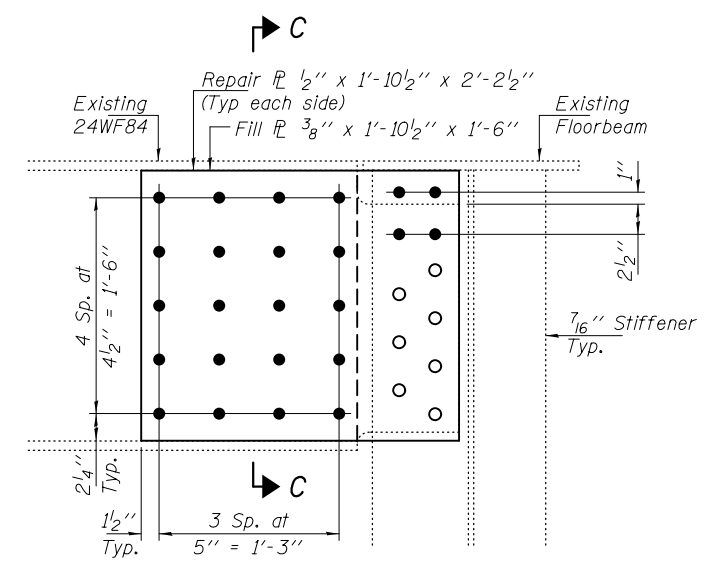
ELEVATION REPAIR 233



VIEW B-B



SECTION C-C

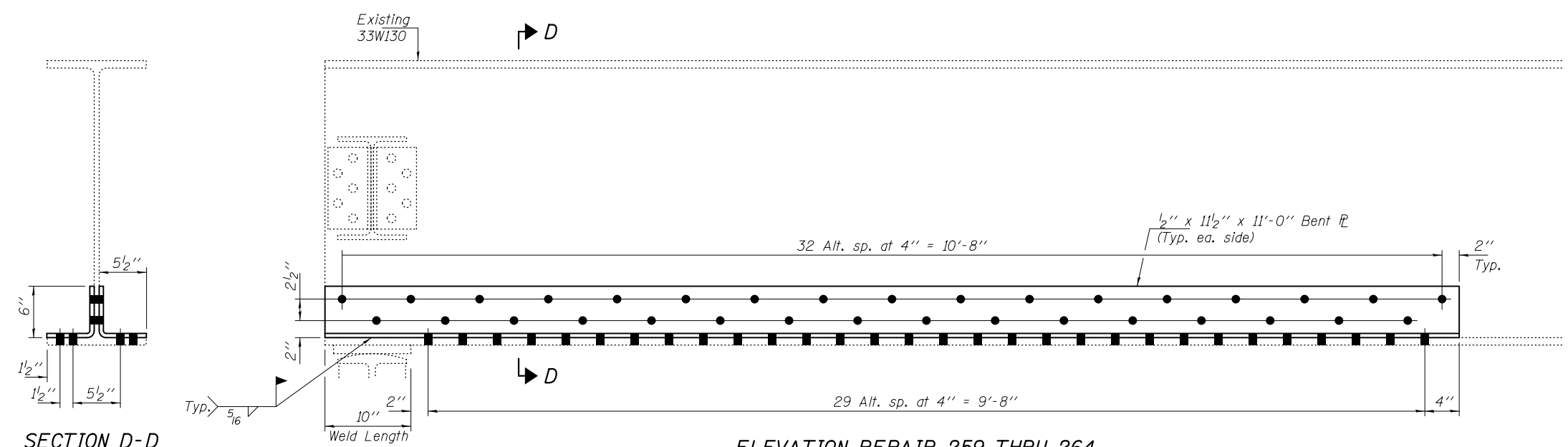


ELEVATION REPAIR 256

Note:
Contractor must provide temporary support for stringer.

BOLT HOLE LEGEND

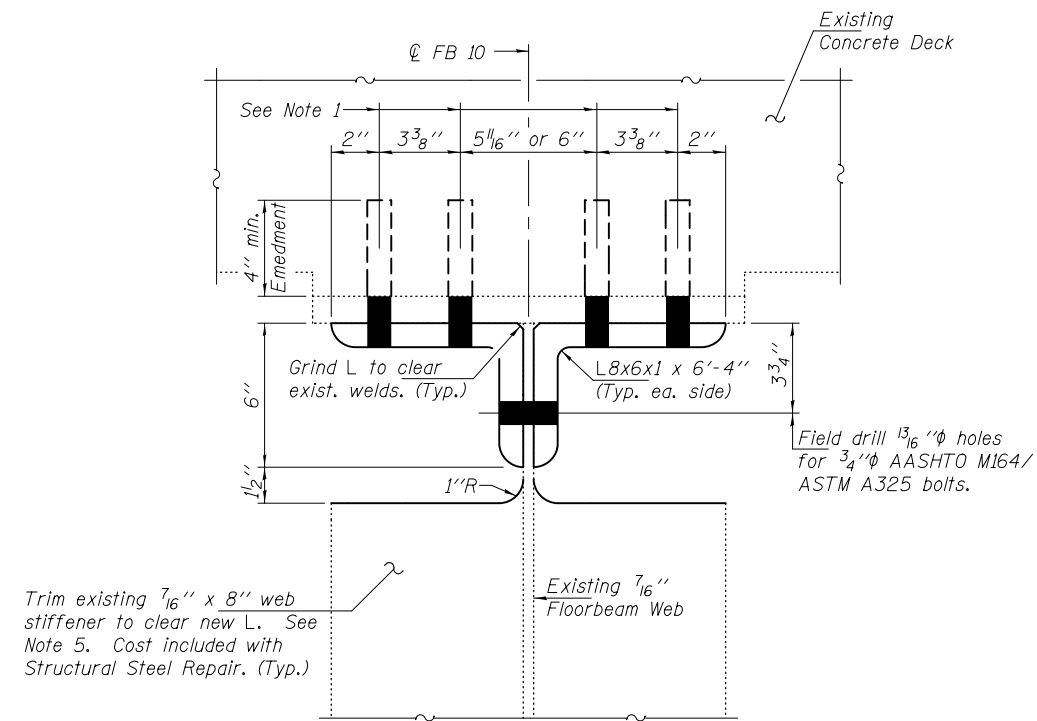
- - Use holes in new steel as template
- - Use holes in existing steel as template



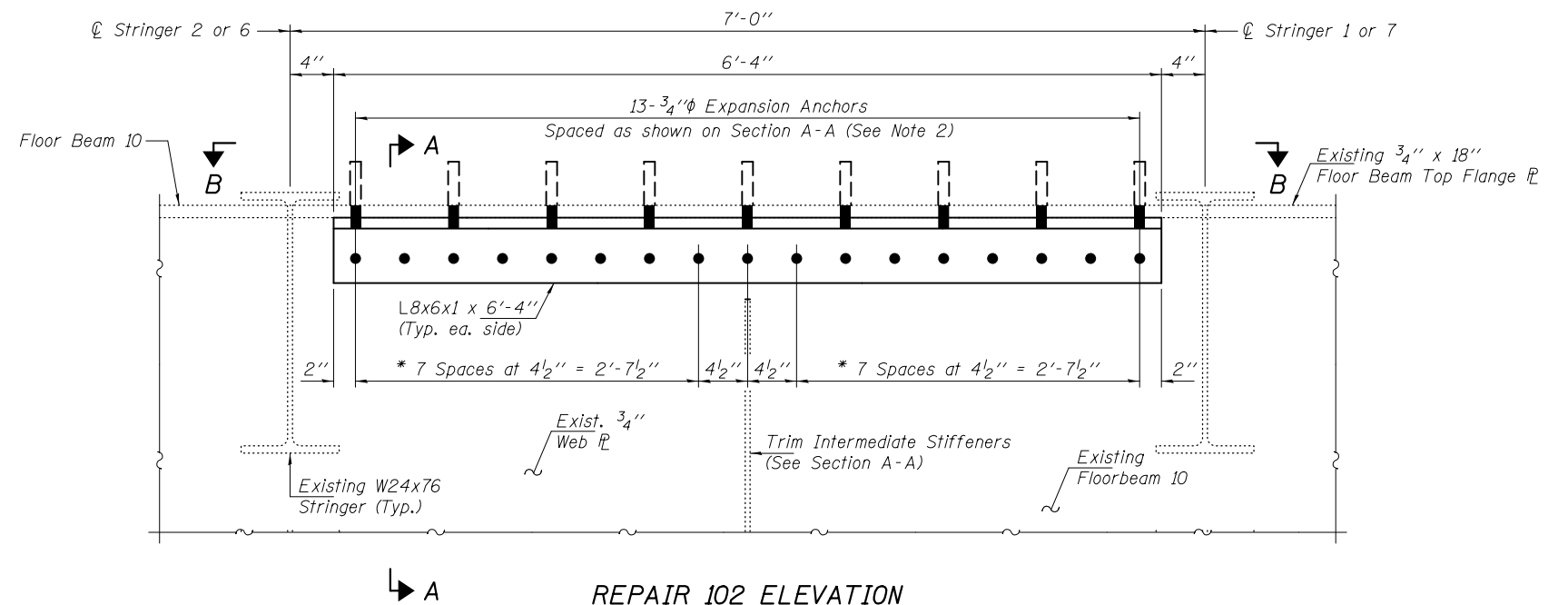
SECTION D-D

ELEVATION REPAIR 259 THRU 264

DESIGNED - GGE	EXAMINED - <i>Timothy A. D... ACTING ENGINEER OF STRUCTURAL SERVICES</i>	DATE - OCTOBER 17, 2014	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		REPAIR 233, 256, 259 THRU 264 DETAILS SN 099-0056		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHECKED - TLC	PASSED - <i>Carl... ACTING ENGINEER OF BRIDGES AND STRUCTURES</i>						80	99-3-BR-2	WILL	57	18
DRAWN - Kyle M. Steffen/balva					SHEET NO. 15 OF 24 SHEETS		CONTRACT NO. 60Y64				
CHECKED - GGE TLC							ILLINOIS FED. AID PROJECT				



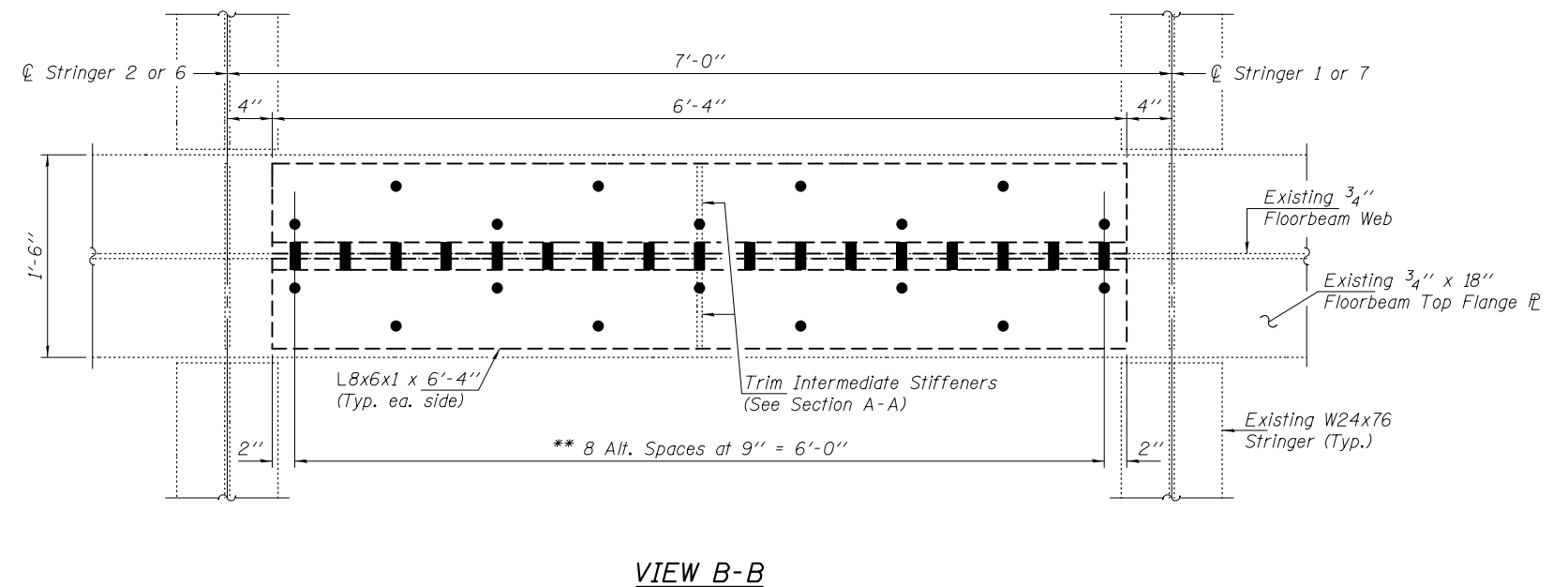
SECTION A-A



REPAIR 102 ELEVATION

NOTES

1. Remove and dispose of existing repair angles. Cut existing epoxy grouted threaded rods off flush. (Between stringers 6 & 7 only)
2. Field drill 1 3/16" hole 4" into existing concrete and install 3/4" expansion anchor bolts with min. pull out capacity of 1.5 kips. Expansion anchor bolts shall be carbon steel. Cost included in the cost of Structural Steel Repair.
3. Cost of field drilling included in the cost of Structural Steel Repair.
4. The repair angle and shape lengths shown are anticipated based on existing plan data. Longer repair angles and shapes may be required based on field conditions.
5. For additional requirements, see Special Provision for Structural Steel Repair and Structural Steel Removal.
6. Procedure for cutting existing Web Stiffener:
 - A. Cut existing vertical stiffener and along web as shown, with a 1" radius min. at web. The minimum distance from cut to face of web shall be the larger of 1/4" or web R weld size, with removal of remaining material by grinding as described below. The cut shall be made parallel to the web without angling the cut towards the web. Equipment and method of cutting shall be approved by the Engineer. Any method of removal to be used shall ensure that no damage is done to the existing web, vertical stiffener or welds connecting these elements. Cutting shall be done in a manner such that the paint on the opposite face of the web is not damaged. If damage occurs, the damaged area shall be repainted at the Contractor's expense and procedures shall be modified to prevent damage at subsequent removal locations.
 - B. Remove material between cut and web by grinding and grind smooth at web surface and cut end of stiffener. Web R surfaces and cut end of stiffener shall have a roughness average (Ra) of 250 μ in. or less. Grinding equipment shall be approved by the Engineer. The grinding operator should not gouge the girder web R.
 - C. The web surface at the modification shall be inspected using dye penetrant or magnetic particle (MT) methods. Any cracks found shall be identified and reported to the Bureau of Bridges and Structures for further disposition.
 - D. The exposed steel surfaces shall be cleaned and painted using an aluminum epoxy mastic primer according to Article 506.05 of the Standard Specifications.
 - E. Cost shall be included with Structural Steel Repair.



VIEW B-B

- * Field Drill holes in New L's using existing Floor Beam as template.
- ** Space to miss existing Epoxy Grouted Threaded Rods.

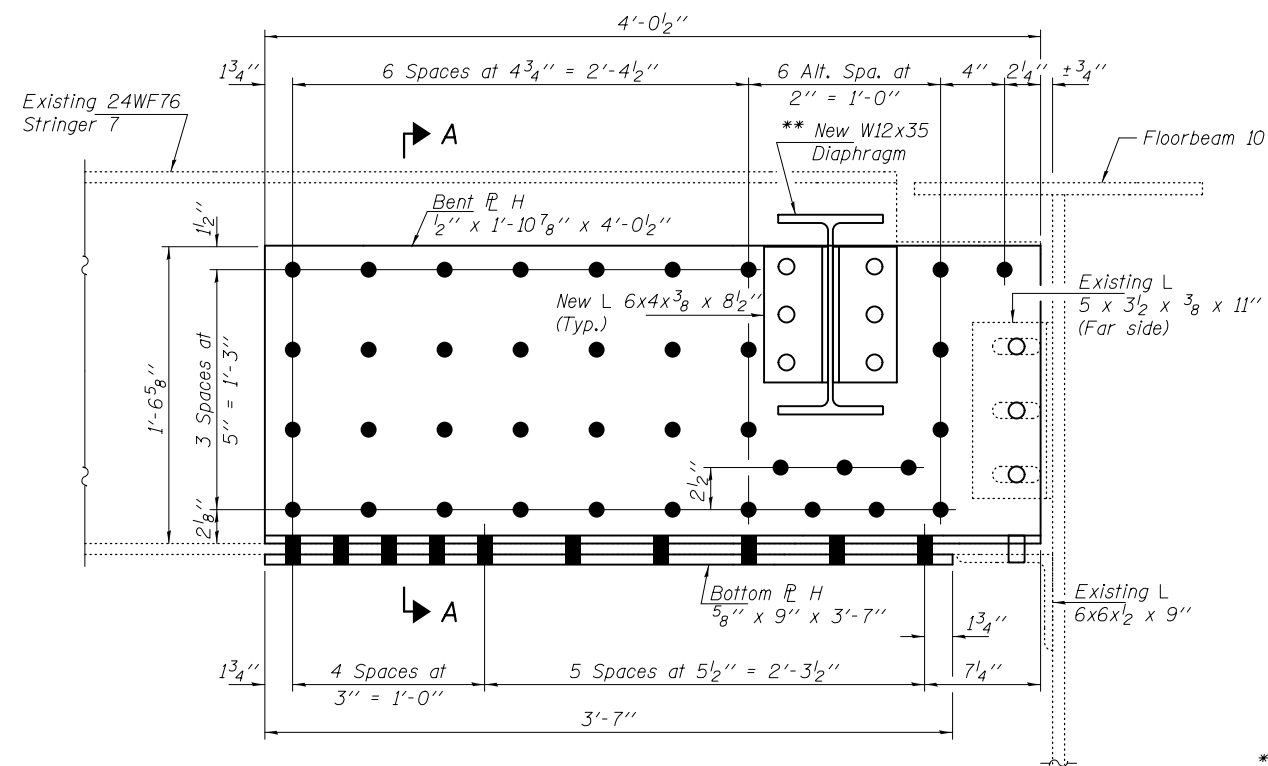
DESIGNED - GGE	EXAMINED - <i>Timothy A. [Signature]</i>	DATE - OCTOBER 17, 2014
CHECKED - TLC	ACTING ENGINEER OF STRUCTURAL SERVICES	
DRAWN - Kyle M. Steffen/balva	PASSED - <i>Carl [Signature]</i>	
CHECKED - GGE TLC	ACTING ENGINEER OF BRIDGES AND STRUCTURES	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REPAIR DETAIL 102
SN 099-0057

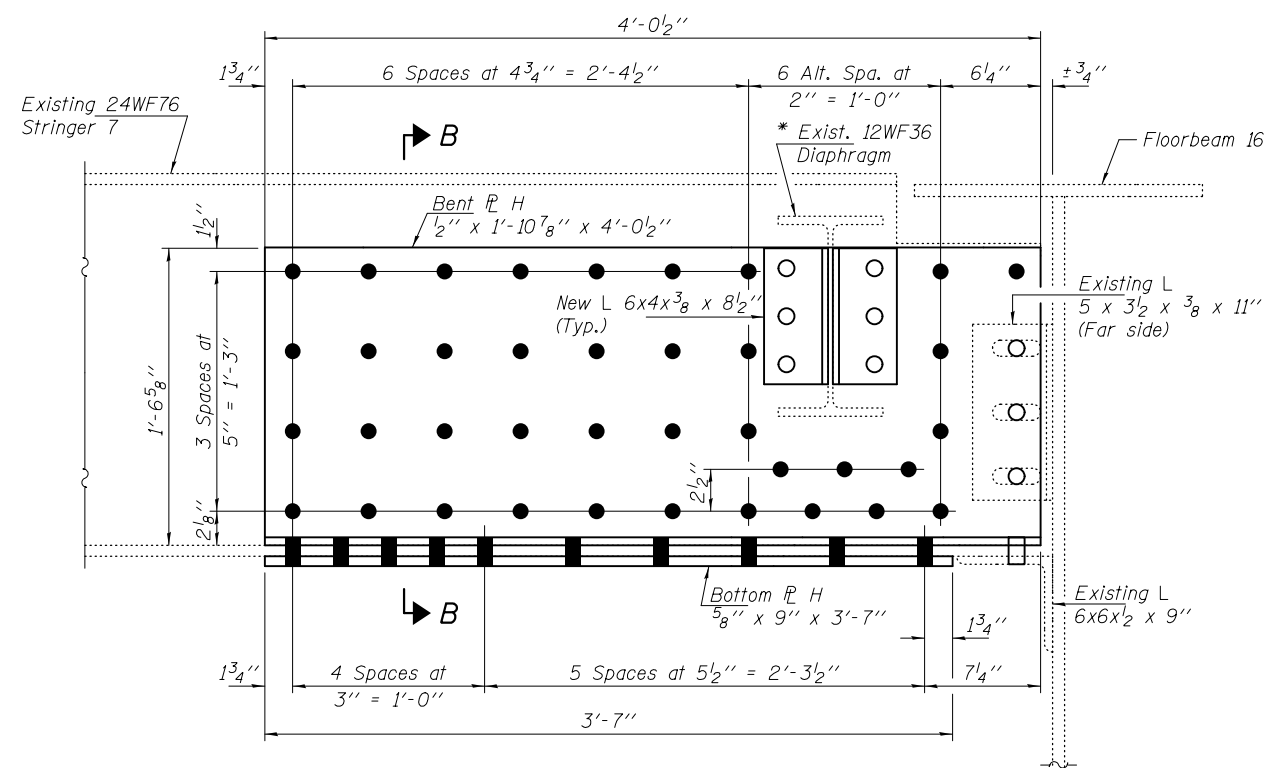
SHEET NO. 16 OF 24 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-3-BR-2	WILL	57	19
CONTRACT NO. 60Y64			ILLINOIS FED. AID PROJECT	



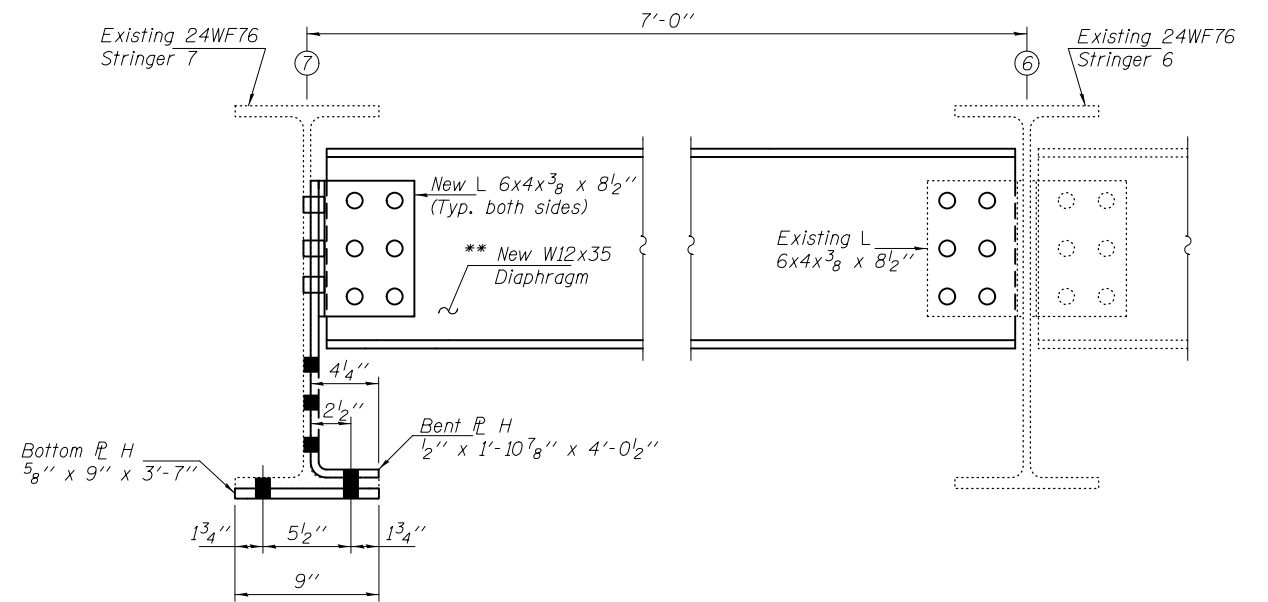
REPAIR 225 & 273 ELEVATION

(Looking South)
 Item 225 - Stringer Repair
 Item 273 - Diaphragm Replacement



REPAIR 277 ELEVATION

(Looking South)

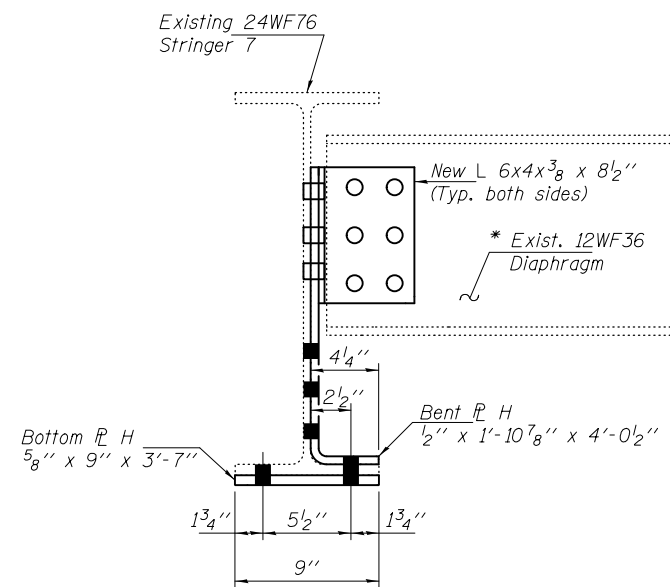


SECTION A-A

- * Trim diaphragm only as required to facilitate installation of Bent P. H.
- ** Contractor shall field verify diaphragm length. All holes in new diaphragm to be field drilled.

BOLT HOLE LEGEND

- - Use holes in new steel as template
- - Use holes in existing steel as template



SECTION B-B

DESIGNED - GGE
 CHECKED - TLC
 DRAWN - Kyle M. Steffen/balva
 CHECKED - GGE TLC

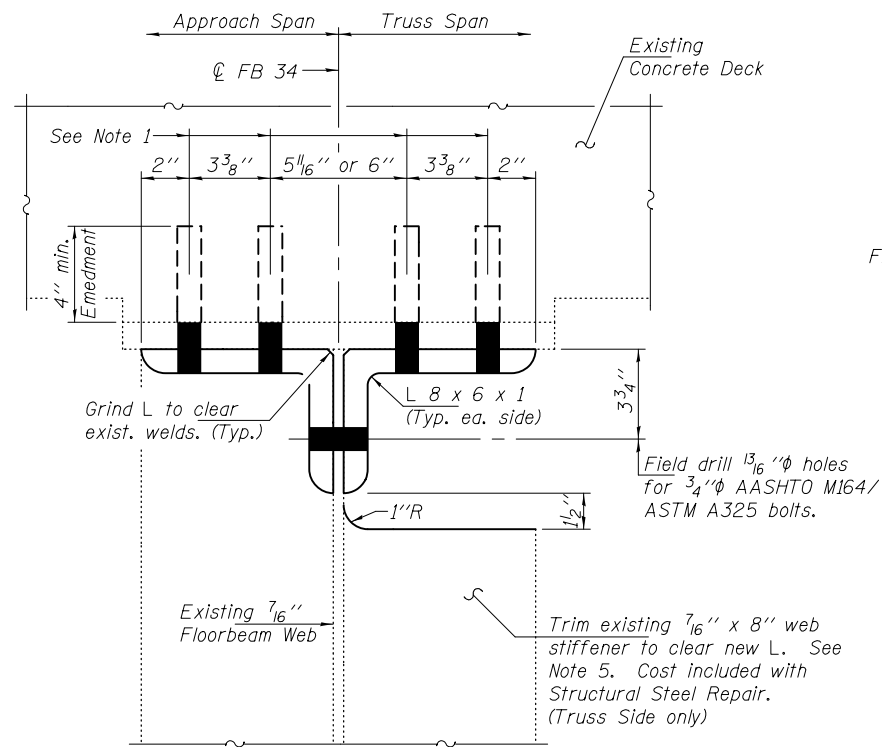
EXAMINED *Timothy A. Daulton* DATE - OCTOBER 17, 2014
 ACTING ENGINEER OF STRUCTURAL SERVICES
 PASSED *Carl P. ...*
 ACTING ENGINEER OF BRIDGES AND STRUCTURES

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

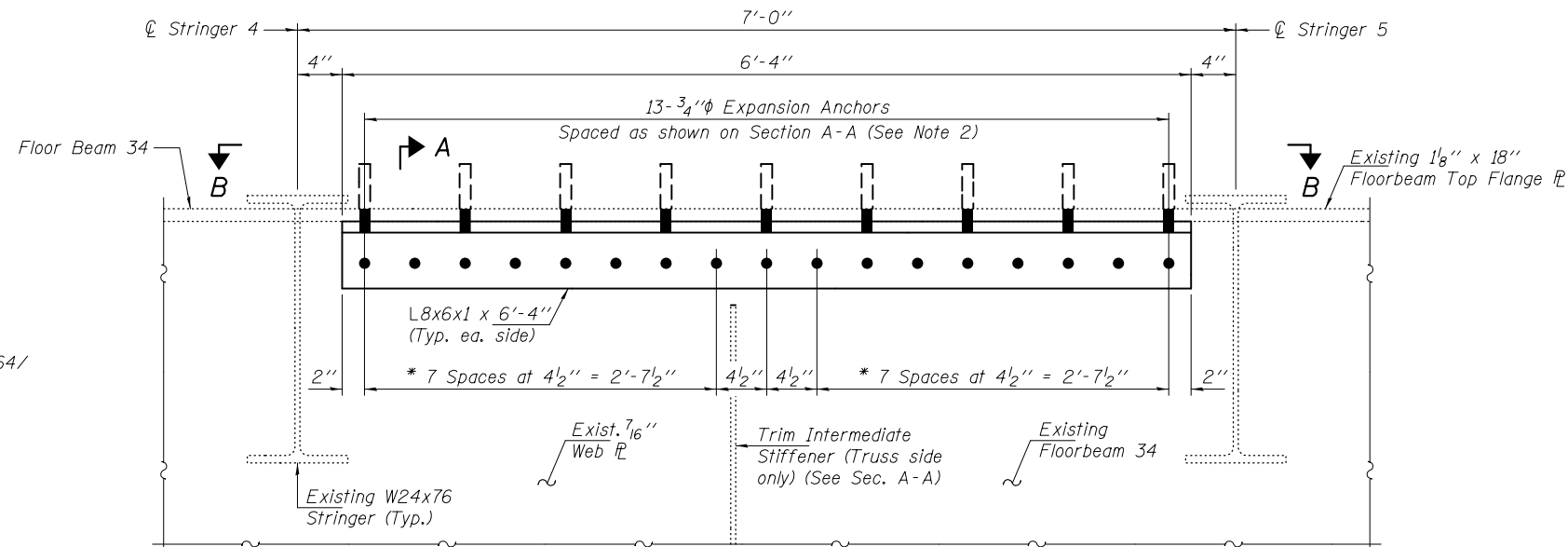
**REPAIR DETAIL 225, 273 & 277
 SN 099-0057**

SHEET NO. 17 OF 24 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-3-BR-2	WILL	57	20
CONTRACT NO. 60Y64			ILLINOIS FED. AID PROJECT	



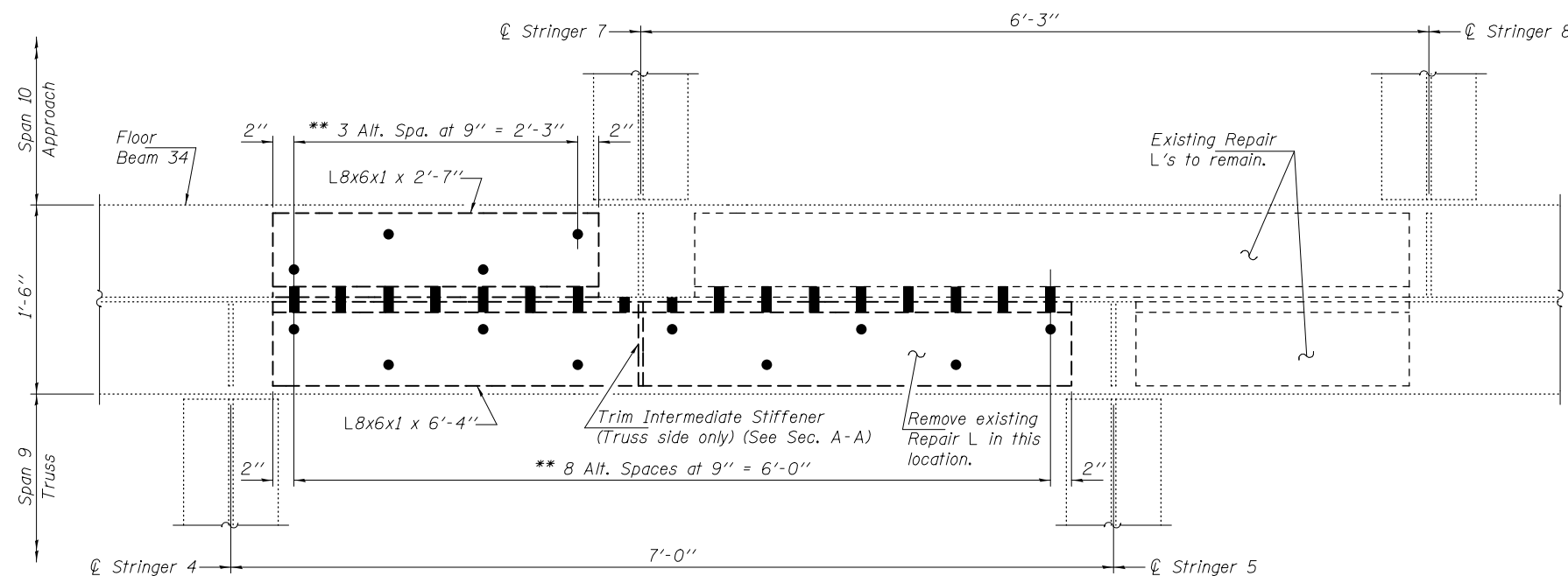
SECTION A-A



REPAIR 119 ELEVATION

NOTES

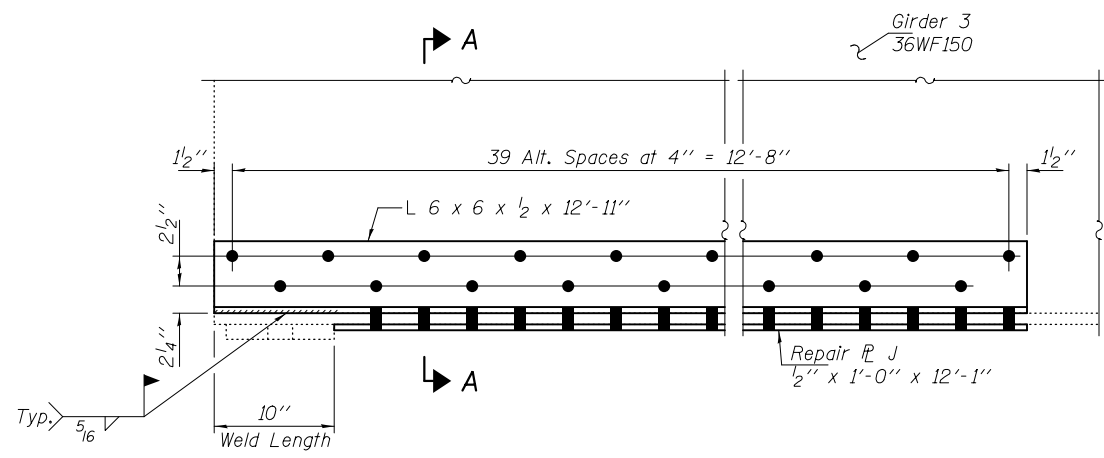
1. Remove and dispose of existing repair angles except as noted. Cut existing epoxy grouted threaded rods off flush.
2. Field drill 1 3/16" hole 4" into existing concrete and install 3/4" expansion anchor bolts with min. pull out capacity of 1.5 kips. Expansion anchor bolts shall be carbon steel. Cost included in the cost of Structural Steel Repair.
3. Cost of field drilling included in the cost of Structural Steel Repair.
4. The repair angle and shape lengths shown are anticipated based on existing plan data. Longer repair angles and shapes may be required based on field conditions.
5. For additional requirements, see Special Provision for Structural Steel Repair and Structural Steel Removal.
6. Procedure for cutting existing Web Stiffener:
 - A. Cut existing vertical stiffener and along web as shown, with a 1" radius min. at web. The minimum distance from cut to face of web shall be the larger of 1/4" or web flange weld size, with removal of remaining material by grinding as described below. The cut shall be made parallel to the web without angling the cut towards the web. Equipment and method of cutting shall be approved by the Engineer. Any method of removal to be used shall ensure that no damage is done to the existing web, vertical stiffener or welds connecting these elements. Cutting shall be done in a manner such that the point on the opposite face of the web is not damaged. If damage occurs, the damaged area shall be repainted at the Contractor's expense and procedures shall be modified to prevent damage at subsequent removal locations.
 - B. Remove material between cut and web by grinding and grind smooth at web surface and cut end of stiffener. Web flange surfaces and cut end of stiffener shall have a roughness average (Ra) of 250 u in. or less. Grinding equipment shall be approved by the Engineer. The grinding operator should not gouge the girder web flange.
 - C. The web surface at the modification shall be inspected using dye penetrant or magnetic particle (MT) methods. Any cracks found shall be identified and reported to the Bureau of Bridges and Structures for further disposition.
 - D. The exposed steel surfaces shall be cleaned and painted using an aluminum epoxy mastic primer according to Article 506.05 of the Standard Specifications.
 - E. Cost shall be included with Structural Steel Repair.



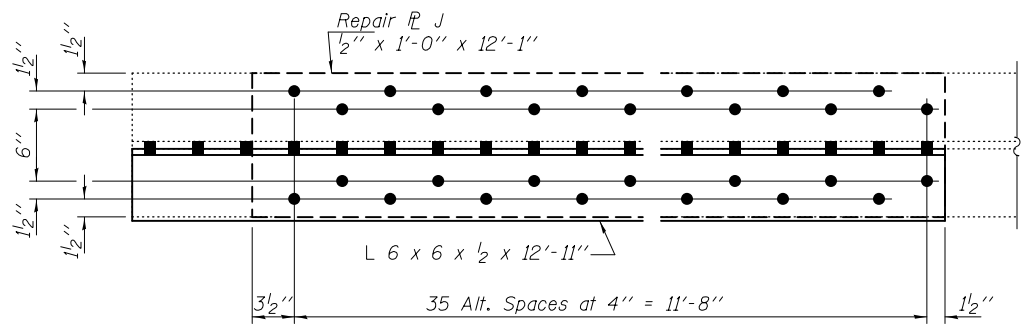
VIEW B-B

- * Field Drill holes in new L's using existing Floor Beam as template.
- ** Space to miss existing Epoxy Grouted Threaded Rods.

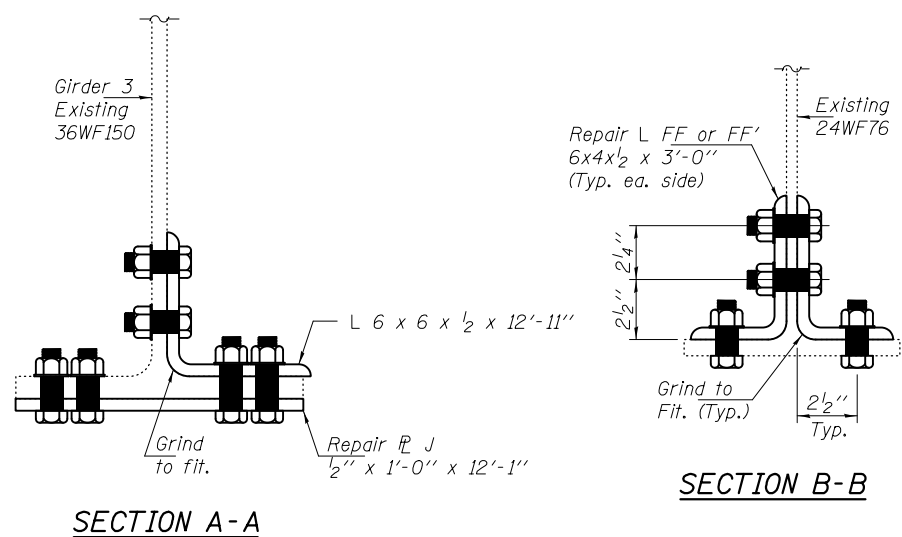
DESIGNED - GGE	EXAMINED - <i>Timothy A. Doolittle</i> ACTING ENGINEER OF STRUCTURAL SERVICES	DATE - OCTOBER 17, 2014	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		REPAIR DETAIL 119 SN 099-0057		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHECKED - TLC	PASSED - <i>Carl Berger</i> ACTING ENGINEER OF BRIDGES AND STRUCTURES						80	99-3-BR-2	WILL	57	21
DRAWN - Kyle M. Steffen/balva			SHEET NO. 18 OF 24 SHEETS		ILLINOIS FED. AID PROJECT		CONTRACT NO. 60Y64				
CHECKED - GGE TLC											



REPAIR 123 ELEVATION
(Looking North)

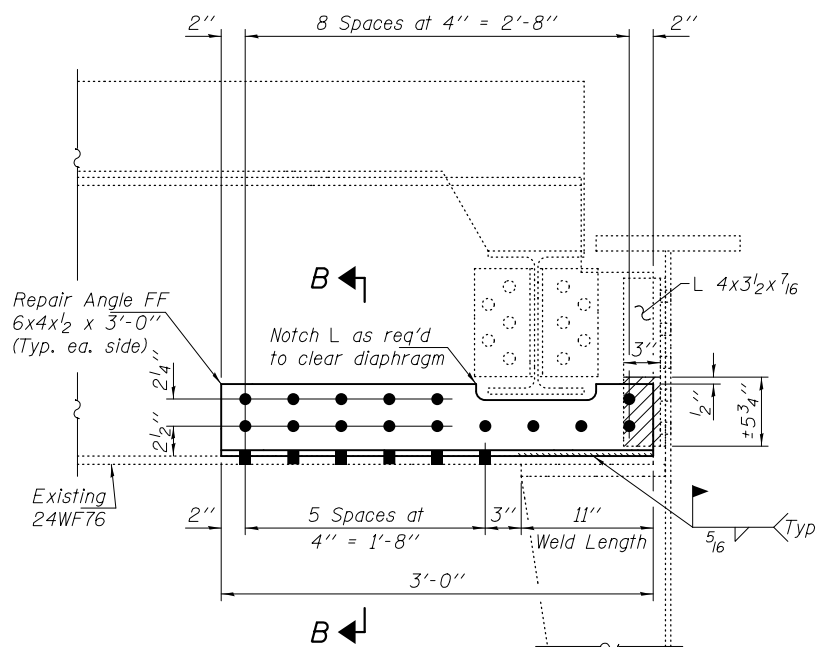


REPAIR 123 PLAN



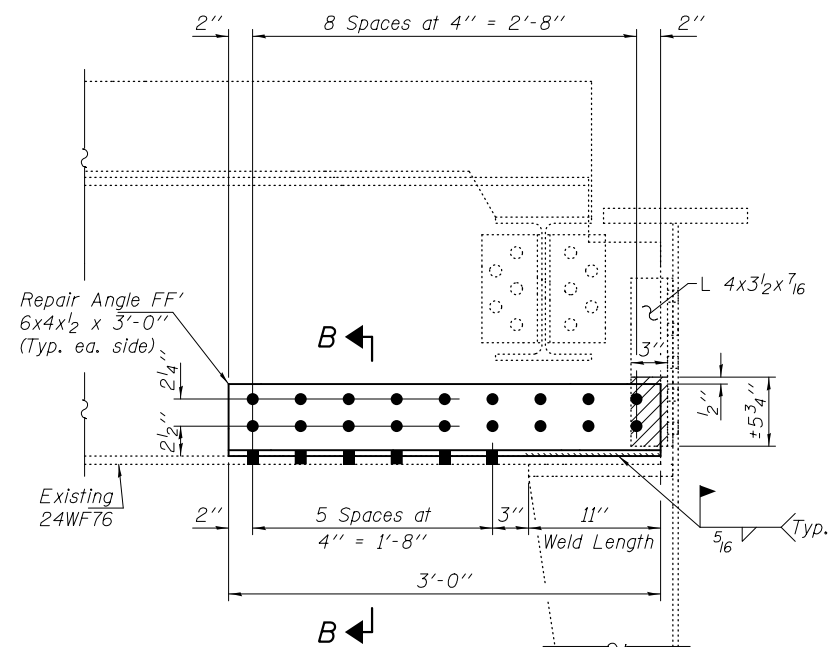
SECTION A-A

SECTION B-B

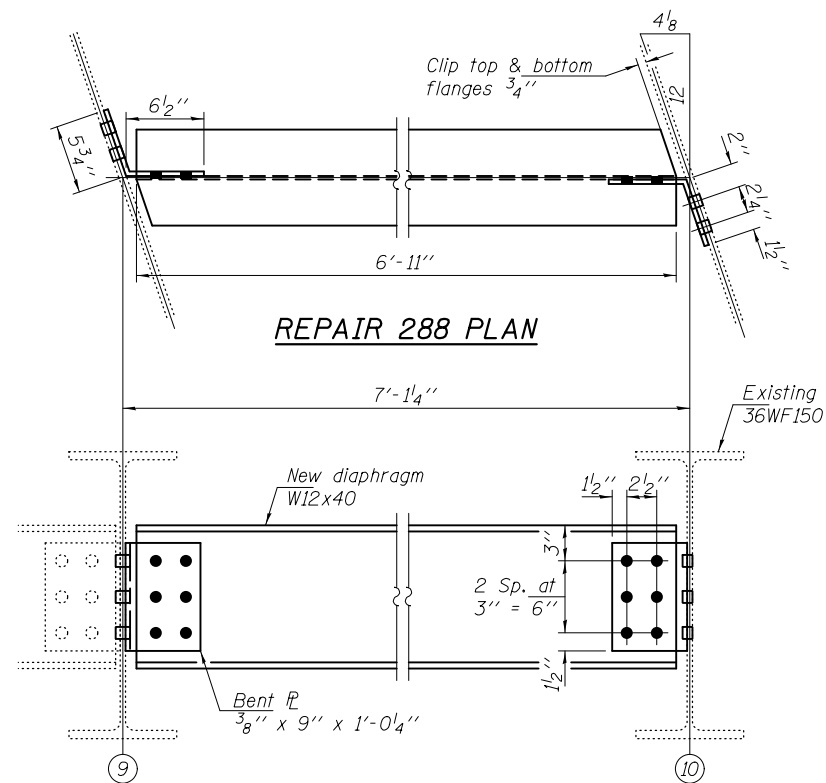


REPAIR 303 & 304 DETAIL
at Span 8, Floor Beam 23, Stringers 2 & 5

Notes:
Hatched area indicates partial removal of angle only. Cost included with Structural Steel Repair.
Contractor shall ensure that no damage shall be done to the Floor Beam web or stringer.



REPAIR 305 DETAIL
at Span 8, Floor Beam 23, Stringer 6



REPAIR 288 PLAN

REPAIR 288 ELEVATION
(All dimensions are typical)

BOLT HOLE LEGEND

- - Use holes in new steel as template
- - Use holes in existing steel as template

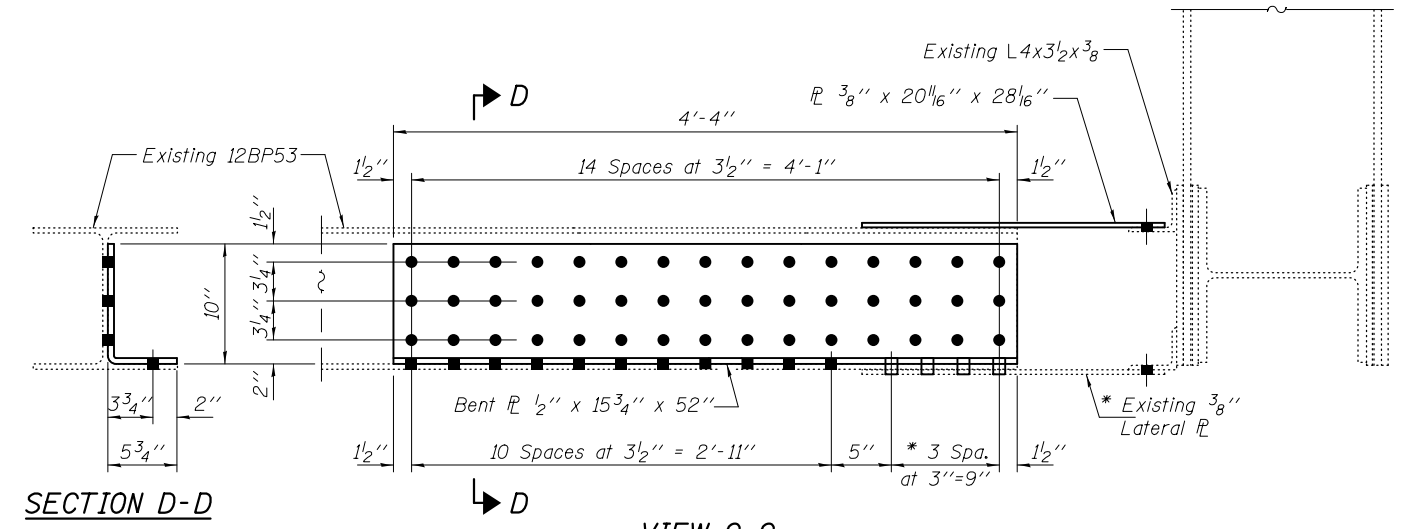
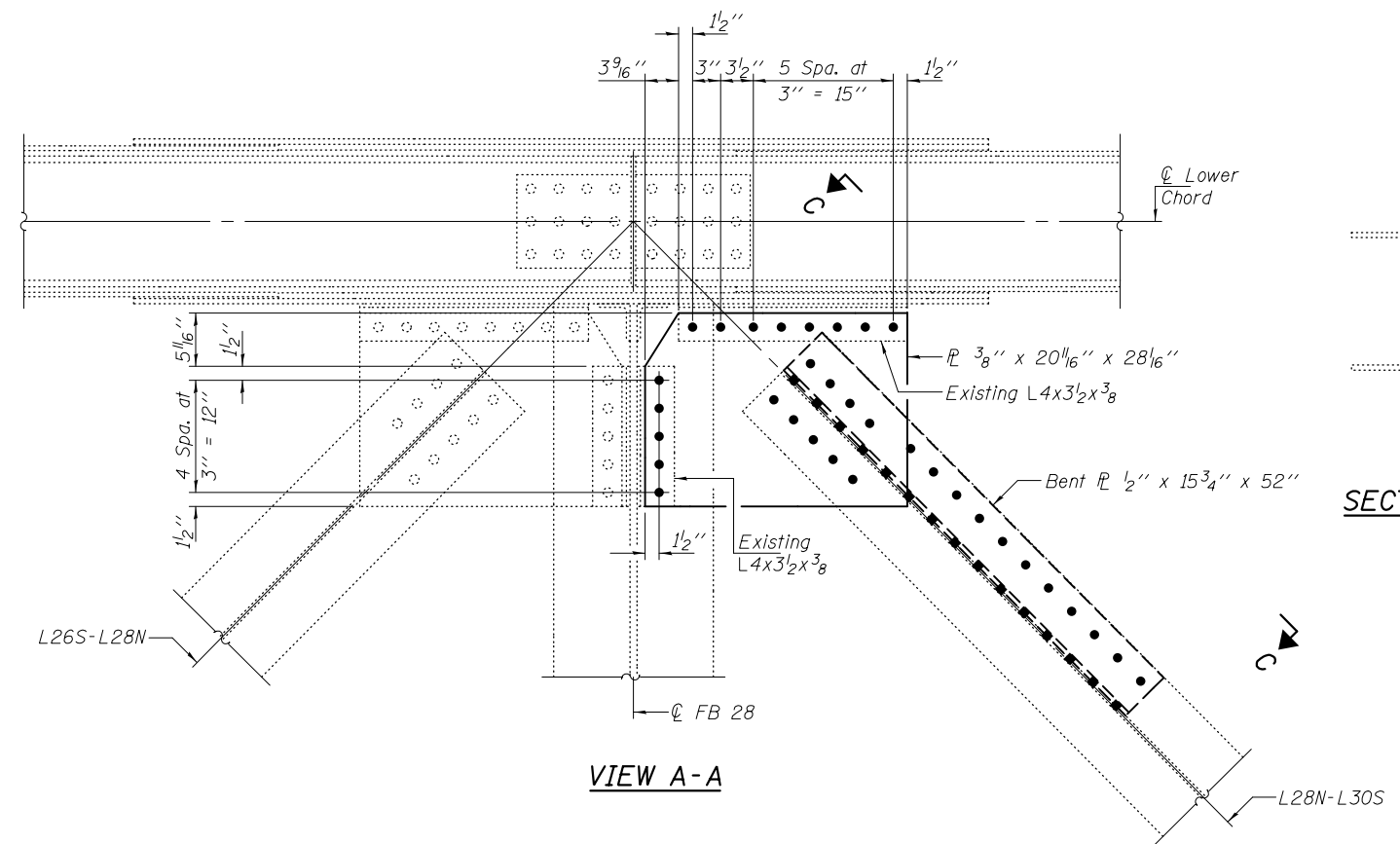
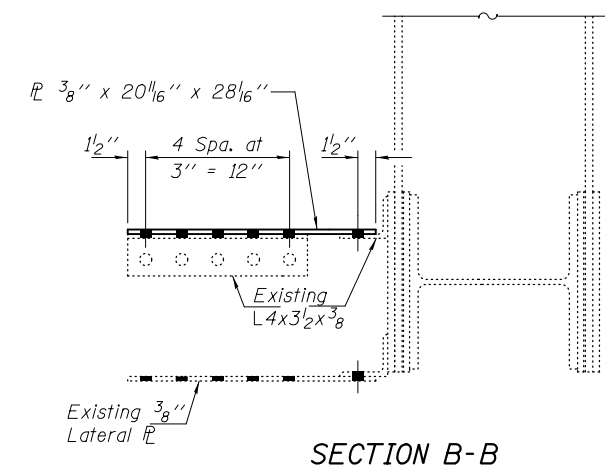
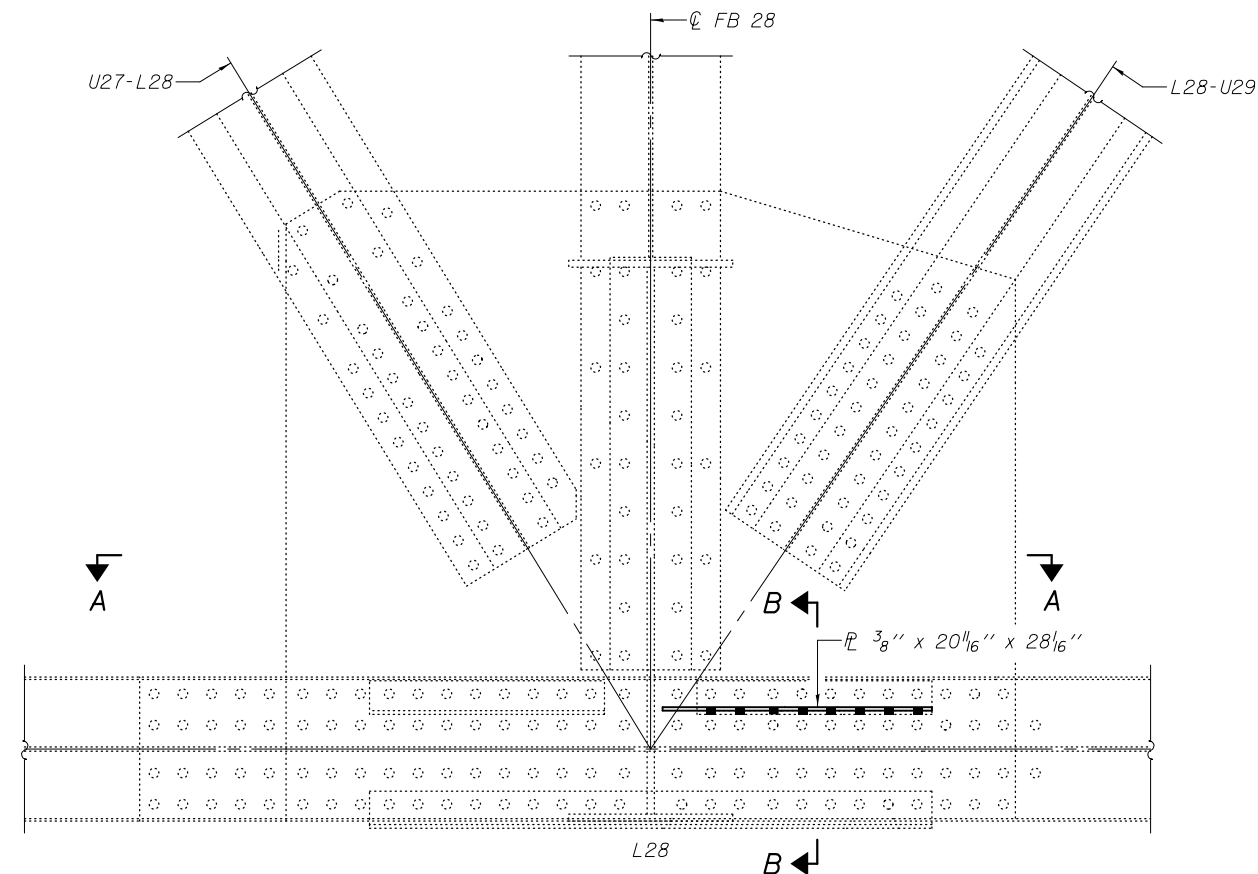
DESIGNED - GGE	EXAMINED - <i>Timothy A. Daulton</i>	DATE - OCTOBER 17, 2014
CHECKED - TLC	ACTING ENGINEER OF STRUCTURAL SERVICES	
DRAWN - Kyle M. Steffen/balva	PASSED - <i>Carl Berger</i>	
CHECKED - GGE TLC	ACTING ENGINEER OF BRIDGES AND STRUCTURES	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REPAIR DETAIL 123, 288, & 303 THRU 305
SN 099-0057

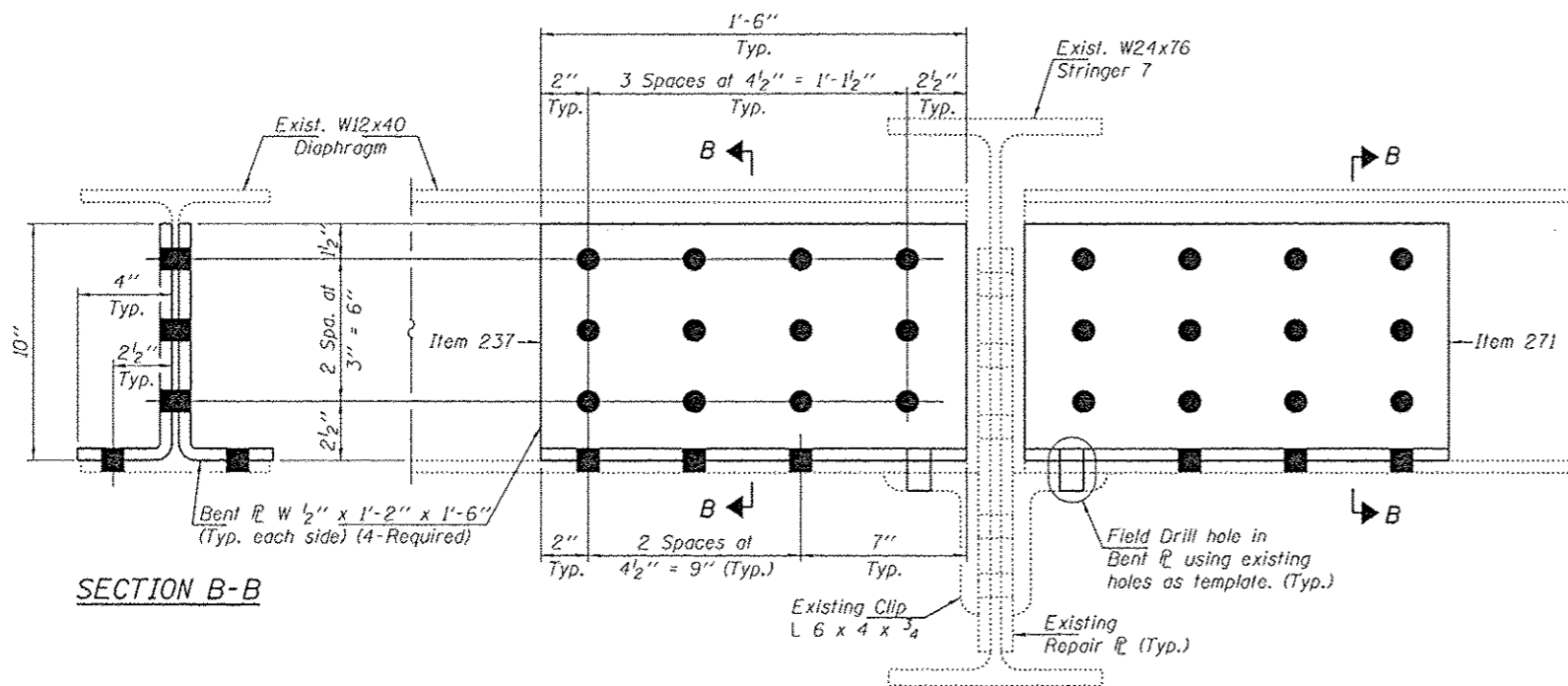
SHEET NO. 19 OF 24 SHEETS

F.A.I. RTE. 80	SECTION 99-3-BR-2	COUNTY WILL	TOTAL SHEETS 57	SHEET NO. 22
CONTRACT NO. 60Y64			ILLINOIS FED. AID PROJECT	

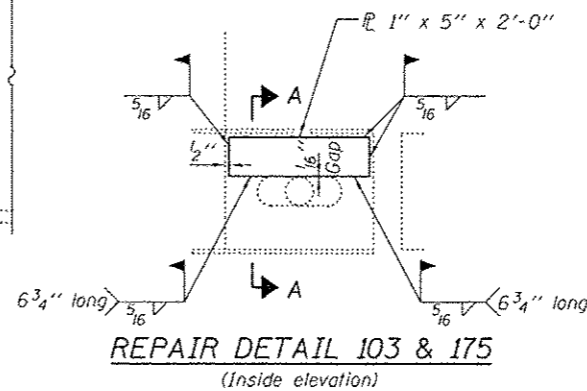


* Field drill holes in new Bent PL using existing lateral PL as template.

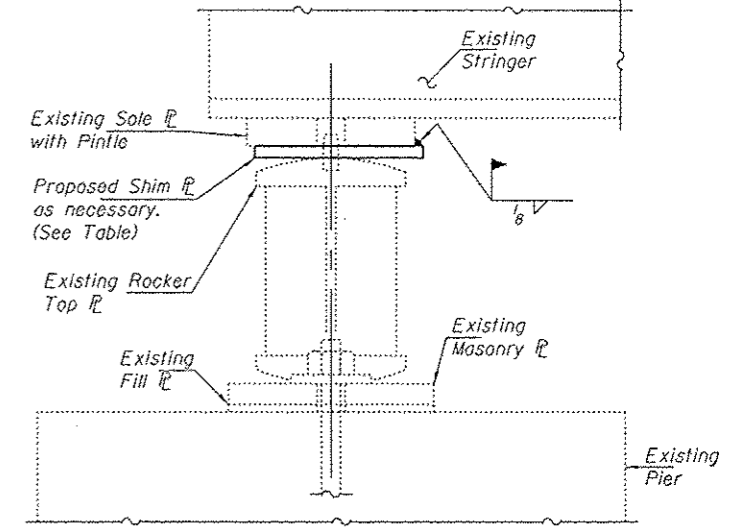
DESIGNED - GGE	EXAMINED - <i>Timothy A. Daulton</i> ACTING ENGINEER OF STRUCTURAL SERVICES	DATE - OCTOBER 17, 2014	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REPAIR DETAIL 197 SN 099-0057	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
CHECKED - TLC	PASSED - <i>Carl Meyer</i> ACTING ENGINEER OF BRIDGES AND STRUCTURES				80	99-3-BR-2	WILL	57	23	
DRAWN - Kyle M. Steffen/balva					CONTRACT NO. 60Y64					
CHECKED - GGE TLC					ILLINOIS FED. AID PROJECT					
				SHEET NO. 20 OF 24 SHEETS						



REPAIR DETAIL 237 & 271
(Looking East)



REPAIR DETAIL 103 & 175
(Inside elevation)



REPAIR DETAIL
129, 131, 206, 221, 223, 236, 282, 285, 235, 79A, 317, 318, 319, 324, 330, 333, 334, 335

REPAIR PROCEDURE

1. Jack existing stringer 1/4" max.
2. Clean existing Bearing between top of Rocker and Bottom of Sole PL, removing pack rust accumulation.
3. Lower Beams.
4. Provide shim between Sole PL and Rocker as necessary to ensure full Bearing contact between Sole PL and Rocker.

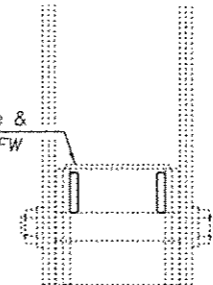
NOTES

1. See Special Provision Jack and Clean Bearings.
2. Cleaning existing Bearings and Shim PL's shall be included in the cost of Jack and Clean Bearings.
3. Shim PL's shall be AASHTO M270 Grade 36 (ASTM A36).

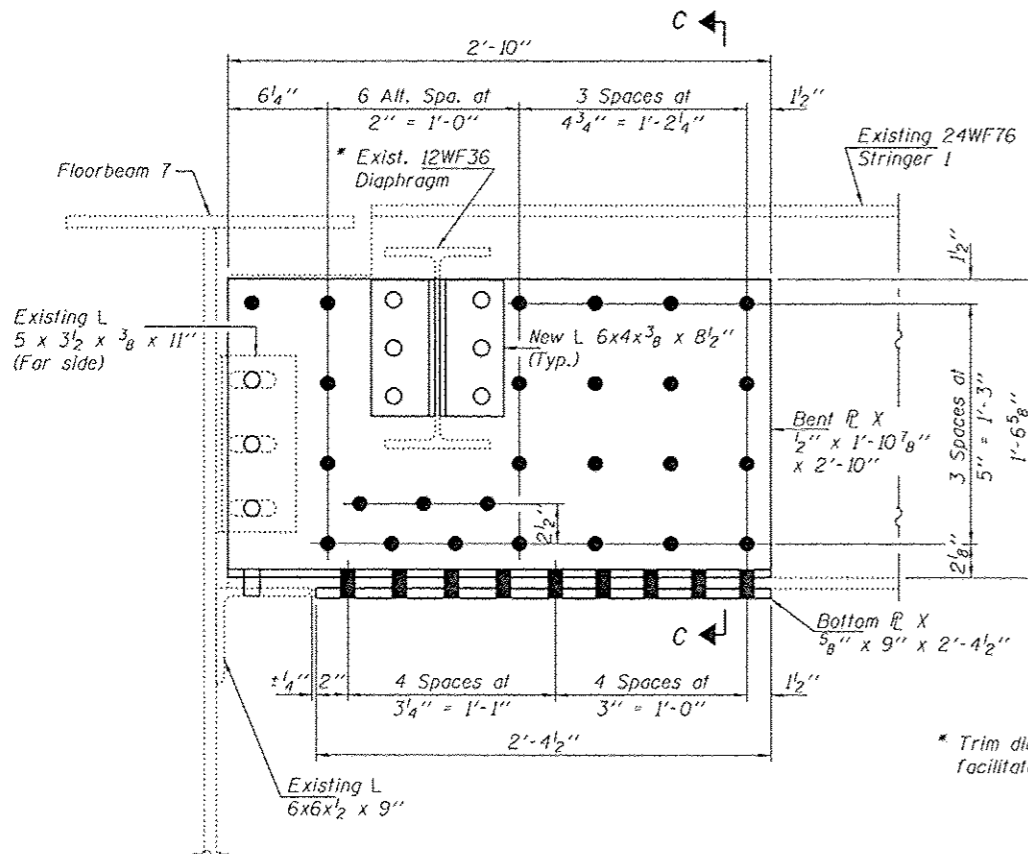
BOLT HOLE LEGEND

- - Use holes in new steel as template
- - Use holes in existing steel as template

PL 1 1/2" x 13" Remove & Reinstall using 1/4" CFW

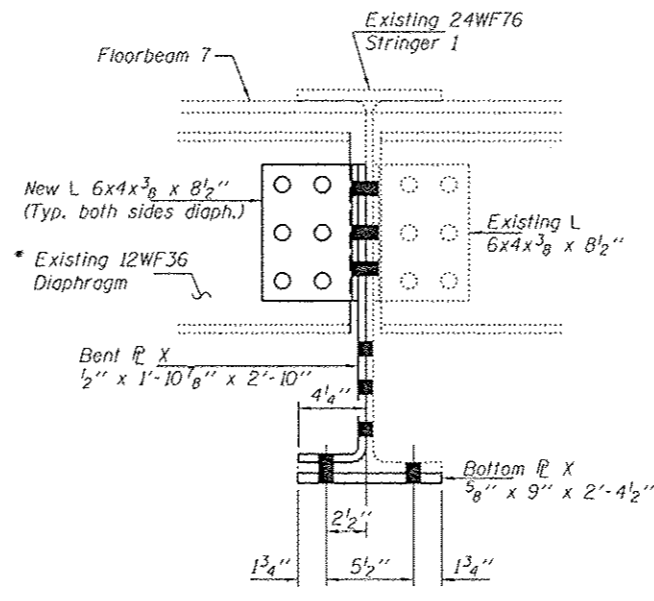


SECTION A-A

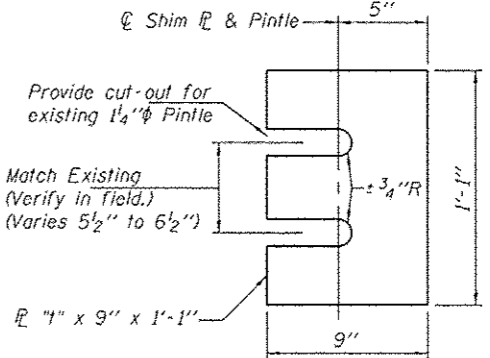


REPAIR DETAIL 99

* Trim diaphragm as required to facilitate installation of Bent PL.



SECTION C-C

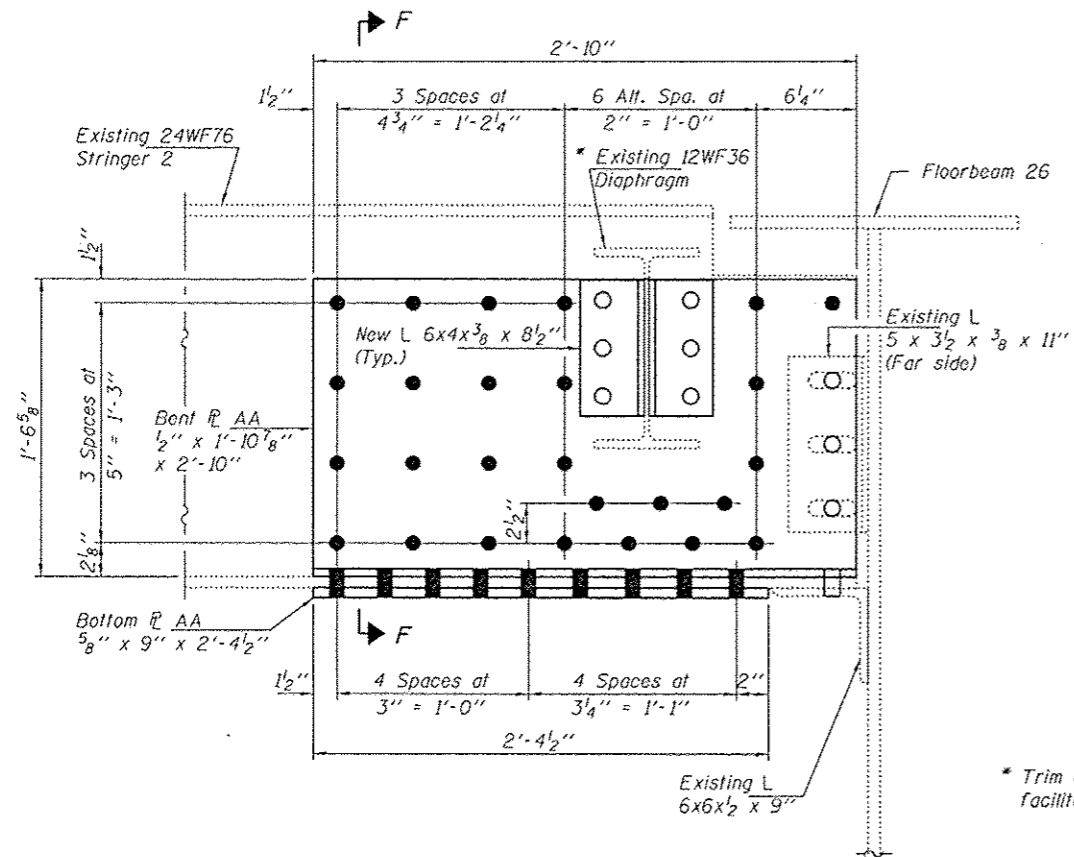


SHIM PL DETAIL

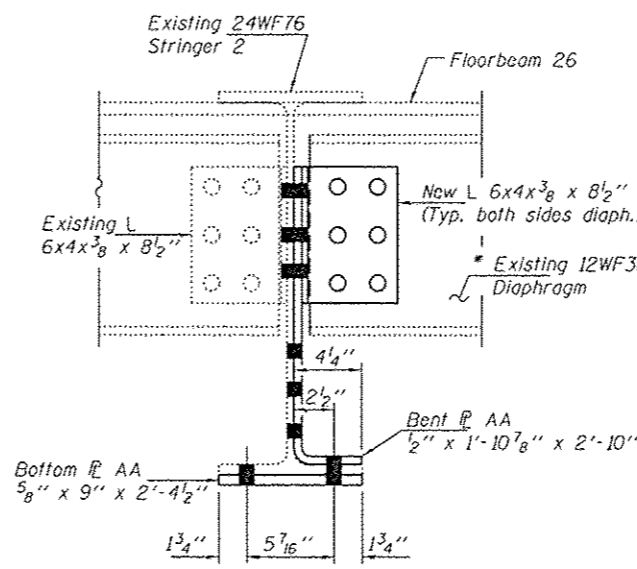
** Verify in field.

JACK & CLEAN BEARING SCHEDULE

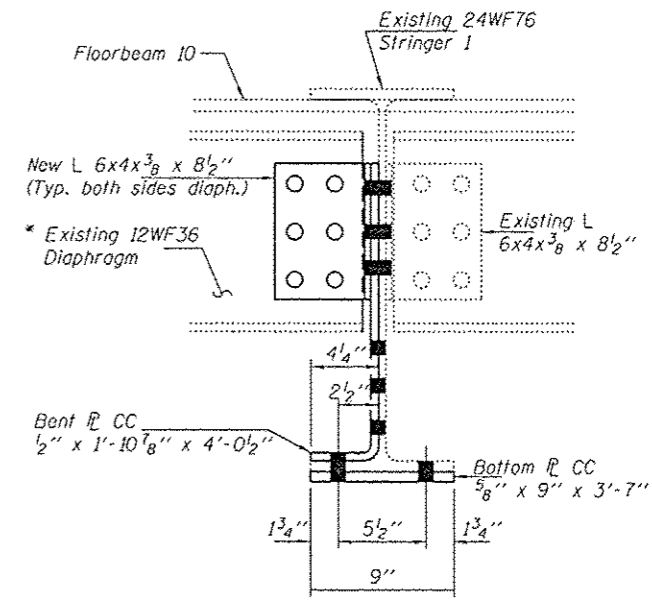
NBIS Item No.	Location	Span	Stringer	** "1"	NBIS Item No.	Location	Span	Stringer	** "1"
236	Pier 3	4	6	1/4"	79A	Pier 5	5	4	1/16"
206	Pier 14	14	4	1/8"	317	Pier 10	11	3	1/16"
129	Pier 20	21	7	1/8"	318	Pier 10	11	7	1/8"
131	Pier 22	22	5	3/8"	319	Pier 12	12	4 & 5	1/16"
221	Pier 22	22	7	1/8"	324	Pier 14	15	5	1/8"
282	Pier 22	23	7	1/8"	330	Pier 20	21	6	1/8"
223	E. Abut.	27	1	1/8"	333	Pier 22	22	8	1/4"
285	Pier 3	3	2	3/16"	334	Pier 22	22	9	1/4"
235	Pier 3	3	3	1/16"	335	Pier 23	23	10	1/8"



REPAIR DETAIL 106



SECTION F-F

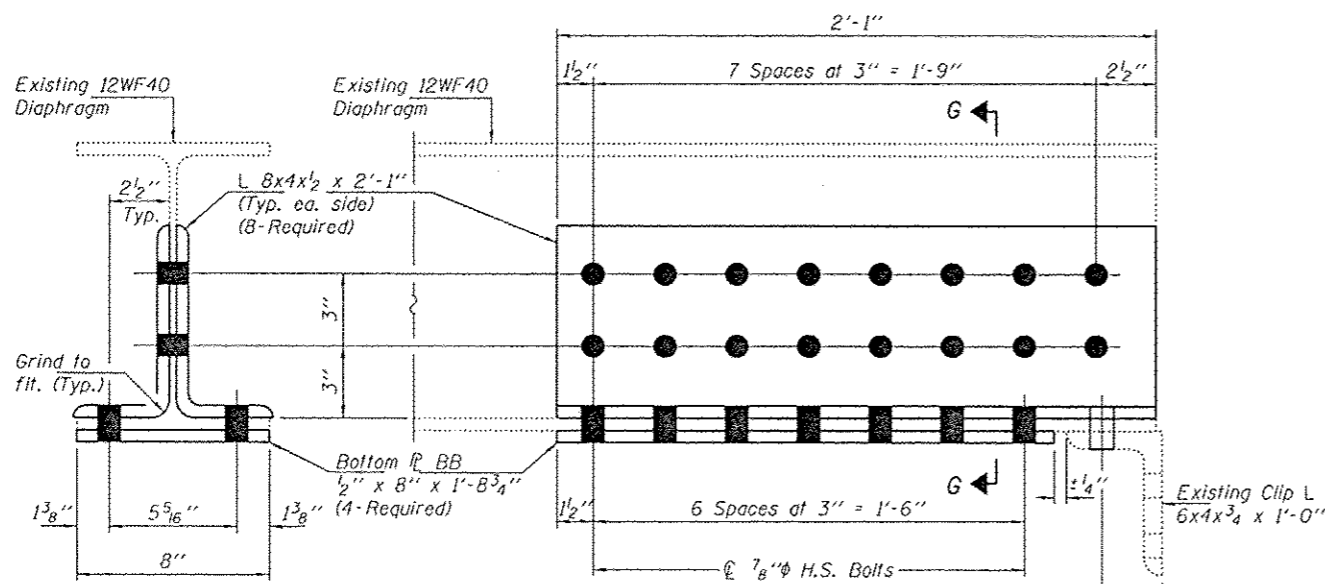


SECTION H-H

* Trim diaphragm as required to facilitate installation of Bent R.

BOLT HOLE LEGEND

- - Use holes in new steel as template
- - Use holes in existing steel as template

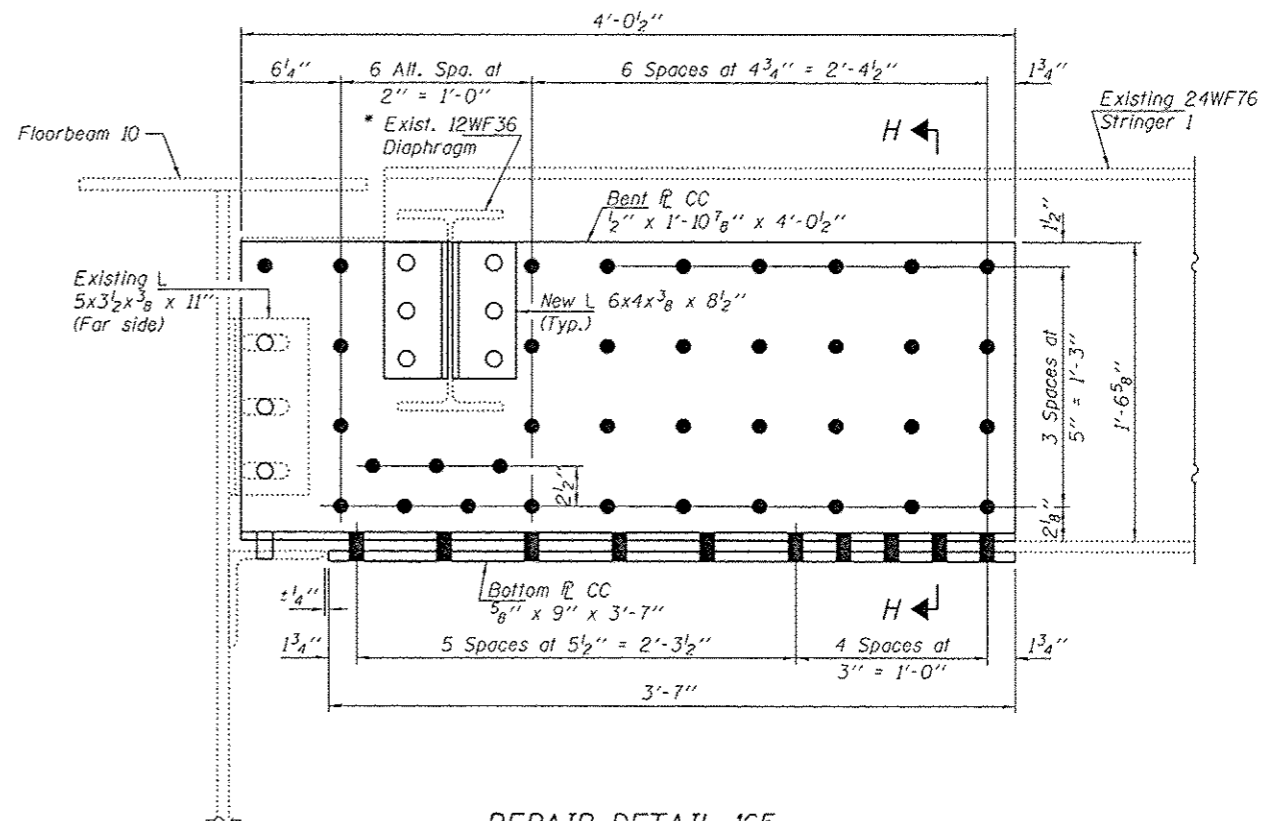


SECTION G-G

REPAIR DETAIL 79, 210 THRU 213, 321 & 332

Repair both ends of diaphragm for Item 212.

Field drill hole in new steel using existing clip L as template.



REPAIR DETAIL 165

DESIGNED - GGE	EXAMINED - <i>Imag A. A. A.</i>
CHECKED - TLC	ACTING ENGINEER OF STRUCTURAL SERVICES
DRAWN - Kyle M. Steffen/balva	PASSED - <i>A. Carl King</i>
CHECKED - GGE	ACTING ENGINEER OF BRIDGES AND STRUCTURES

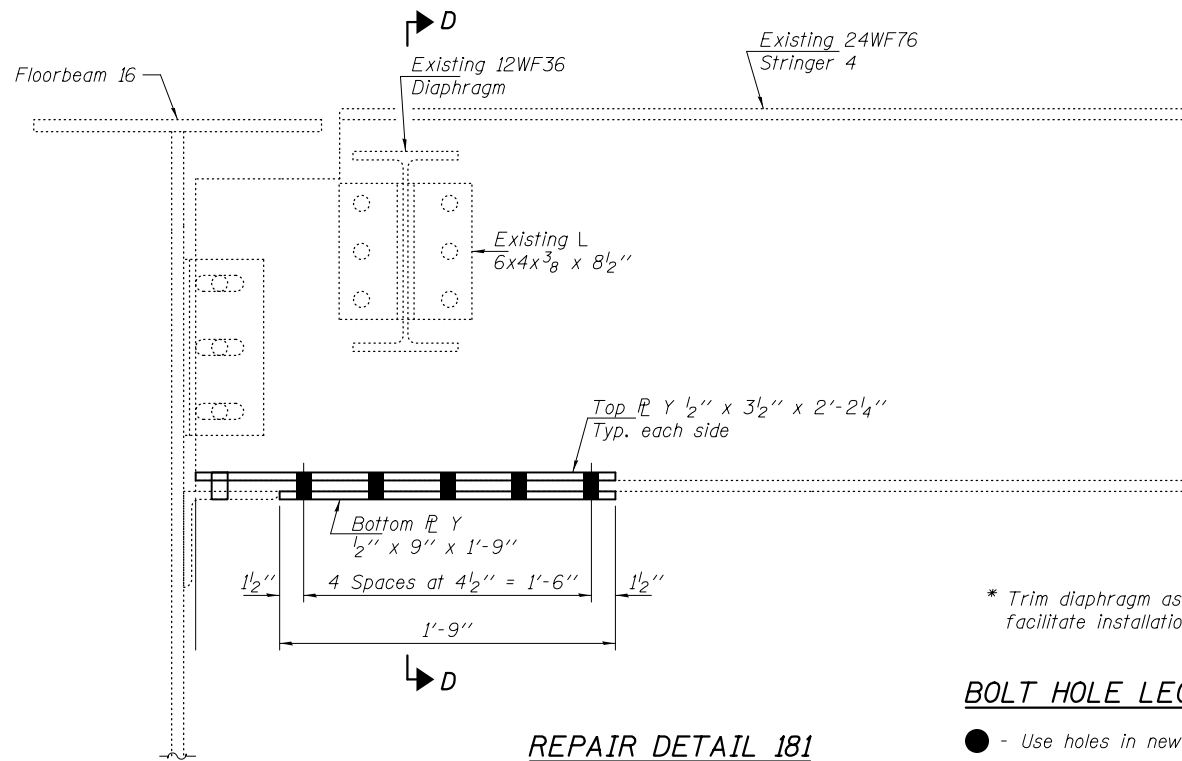
DATE - OCTOBER 17, 2014

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REPAIR DETAILS 79, 106, 165, 210 THRU 213, 321 & 332
SN 099-0057

SHEET NO. 23 OF 24 SHEETS

E.A.I. RTE. 80	SECTION 99-3-BR-2	COUNTY WILL	TOTAL SHEETS 57	SHEET NO. 23C
CONTRACT NO. 60Y64				ILLINOIS FED. AID PROJECT

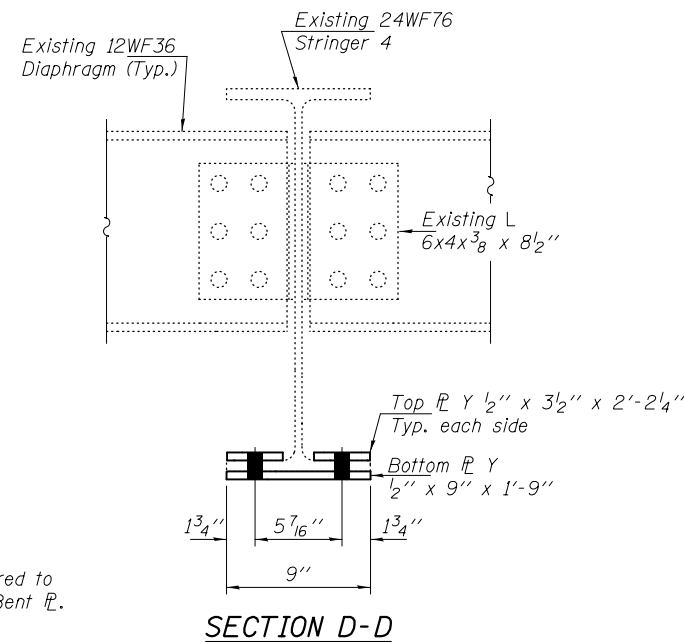


REPAIR DETAIL 181

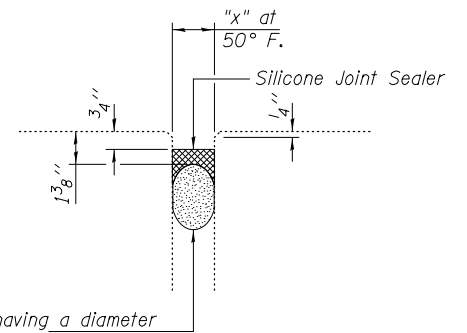
* Trim diaphragm as required to facilitate installation of Bent P.

BOLT HOLE LEGEND

- - Use holes in new steel as template
- - Use holes in existing steel as template



SECTION D-D



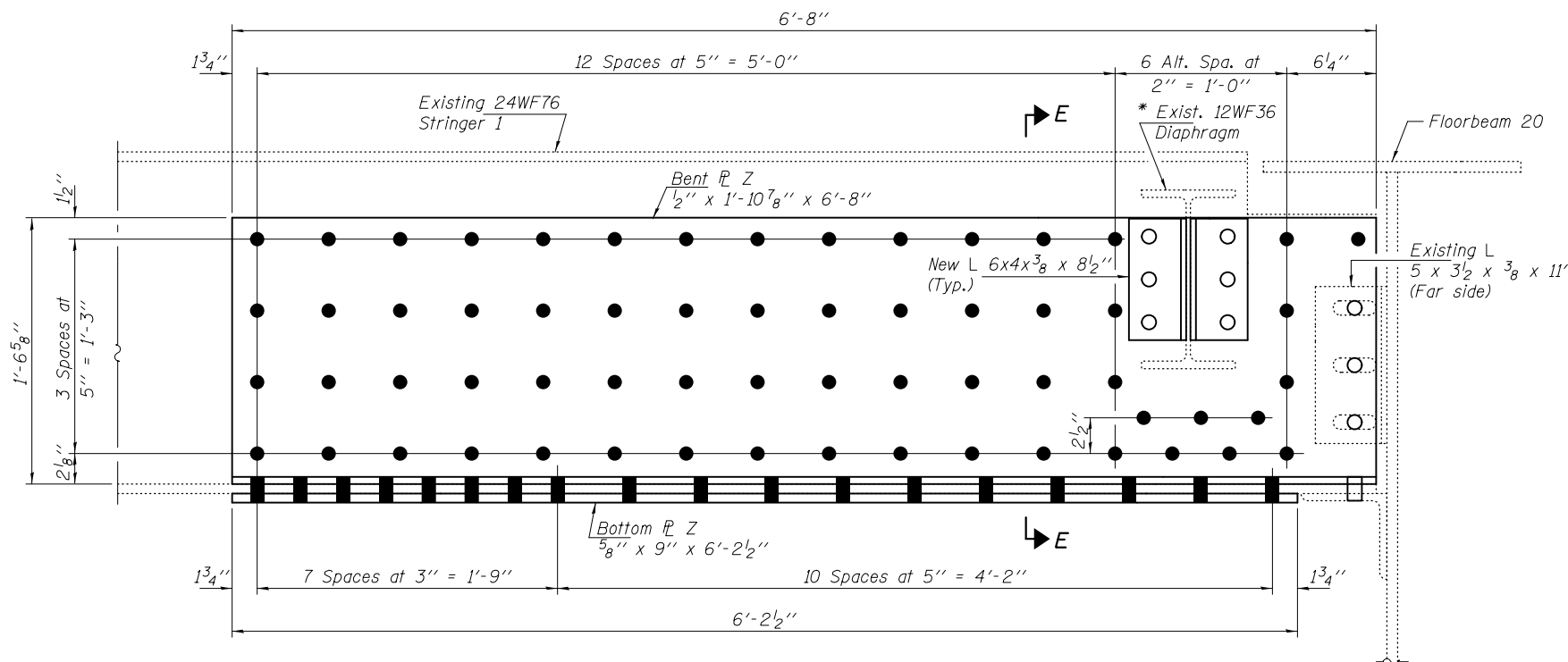
Backer Rod having a diameter 25% greater than the joint opening at the time of installation.

REPAIR 37, 38, 45, 48, 50, 52, 320, 266, 57, 60, 61 & 336 DETAILS

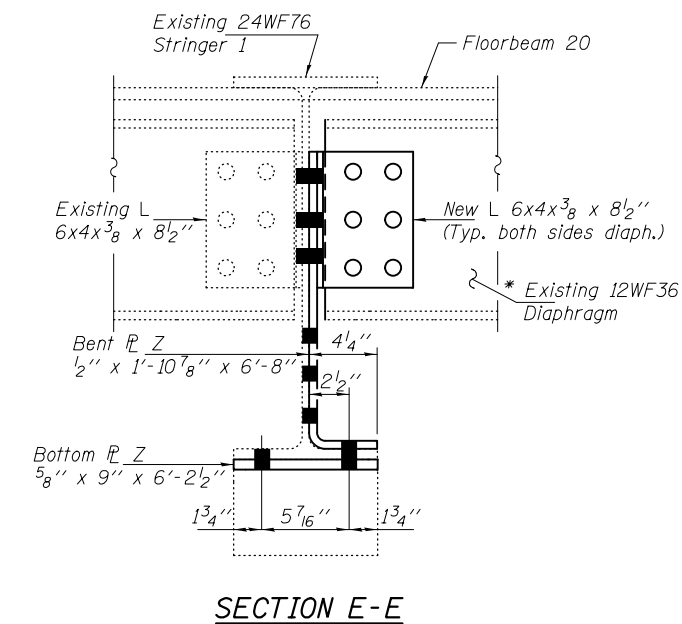
See Table TT for Locations and dimension "x".

TABLE TT - SN 099-0057

NBIS #	SPAN	LOCATION	JOINT DEFICIENCY	Dim. "x"
37	1	W. Abut.	20' Leaking	2"
38	4 & 5	Pier 4	15' Leaking	1"
45	8	Panel Point 13	28' of joint failed	2 3/4"
48	8	Panel Point 16	4' of joint failed	1 3/4"
50	8	Panel Point 20	4' of joint failed	1 3/4"
52	8 & 9	Pier 8	4' of joint failed	2 3/4"
320	12 & 13	Pier 12	8' of joint failed	2 3/4"
266	14 & 15	Pier 14	20' of joint failed	2 3/4"
57	18 & 19	Pier 18	Leaking full length	2"
60	21 & 22	Pier 21	6' Leaking	1"
61	22 & 23	Pier 22	8' Leaking	2"
336	24 & 25	Pier 24	Joint failed	2 3/4"



REPAIR DETAIL 227



SECTION E-E

DESIGNED - GGE
 CHECKED - TLC
 DRAWN - Kyle M. Steffen/balva
 CHECKED - GGE TLC

EXAMINED
 PASSED
 ACTING ENGINEER OF BRIDGES AND STRUCTURES

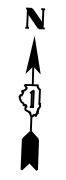
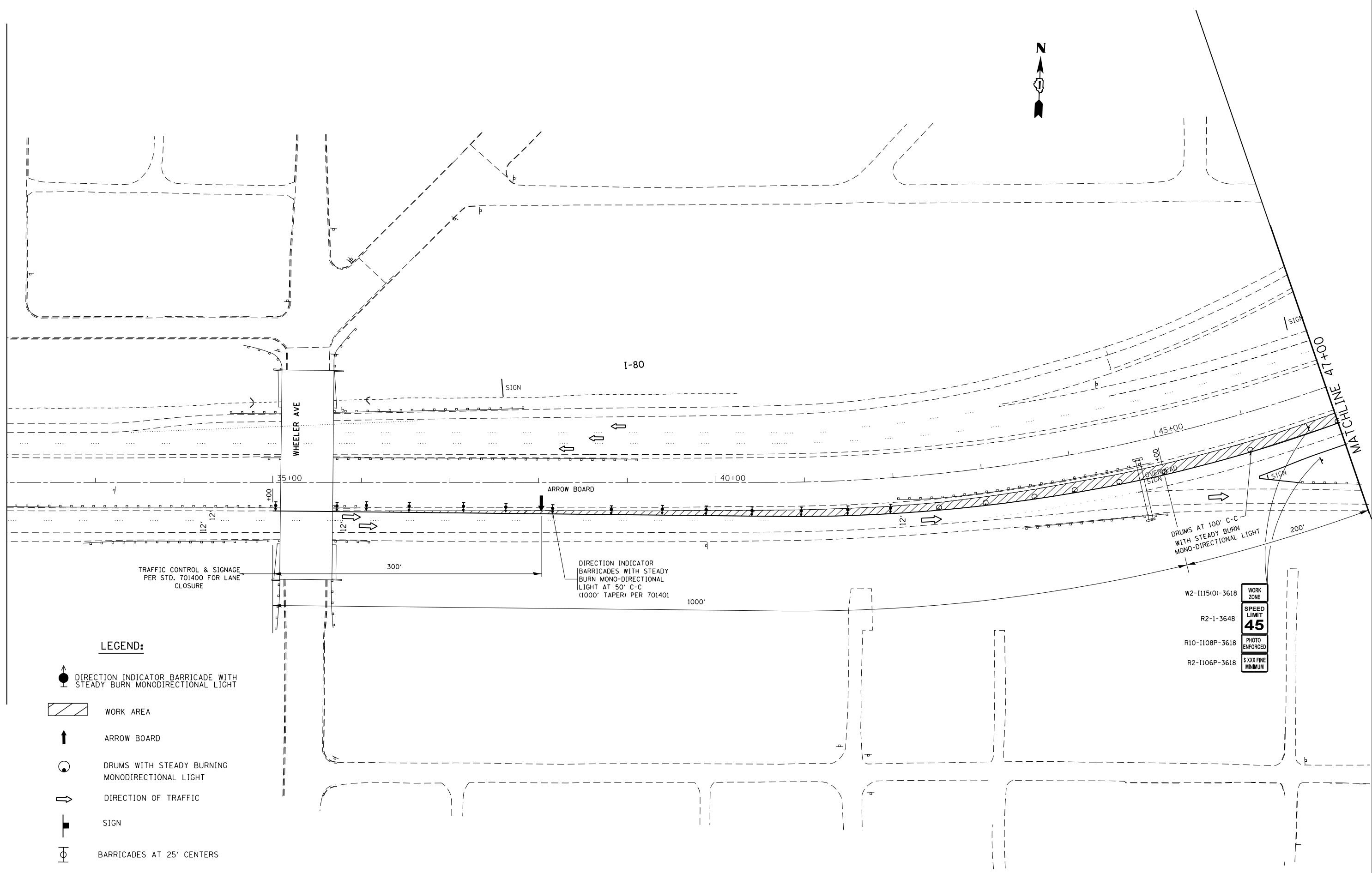
DATE - OCTOBER 17, 2014

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**








**REPAIR DETAILS 181, 227, 37, 38, 45,
 48, 50, 52, 320, 266, 57, 60, 61 & 336
 SN 099-0057**

SHEET NO. 22 OF 24 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-3-BR-2	WILL	57	23B
CONTRACT NO. 60Y64			ILLINOIS FED. AID PROJECT	



LEGEND:

-  DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
-  WORK AREA
-  ARROW BOARD
-  DRUMS WITH STEADY BURNING MONODIRECTIONAL LIGHT
-  DIRECTION OF TRAFFIC
-  SIGN
-  BARRICADES AT 25' CENTERS

- W2-1115(O)-3618 WORK ZONE
- R2-1-3648 SPEED LIMIT 45
- R10-1108P-3618 PHOTO ENFORCED
- R2-1106P-3618 \$ XXX FINE MINIMUM

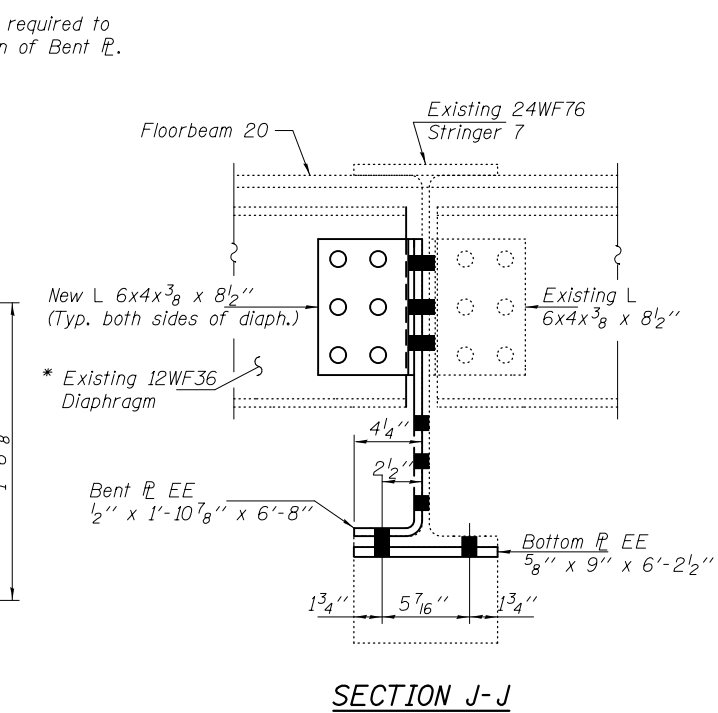
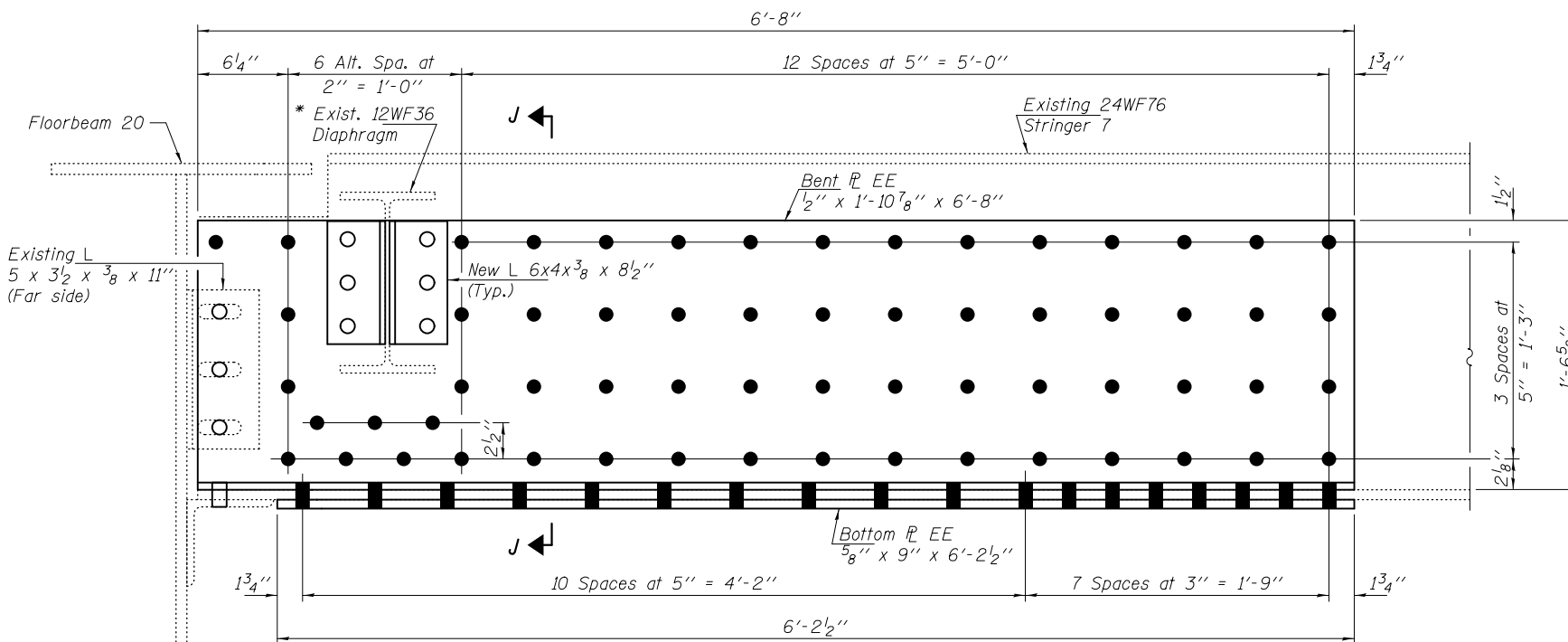
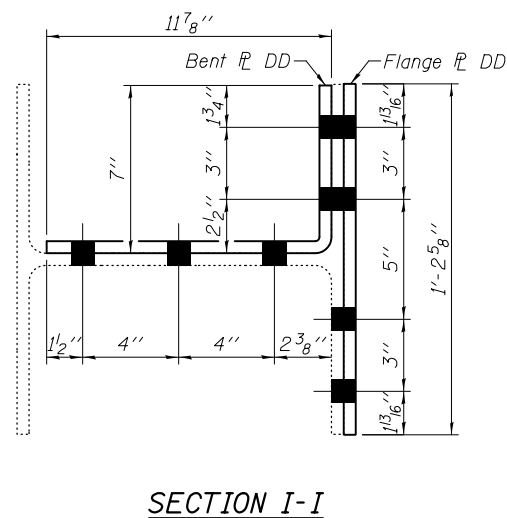
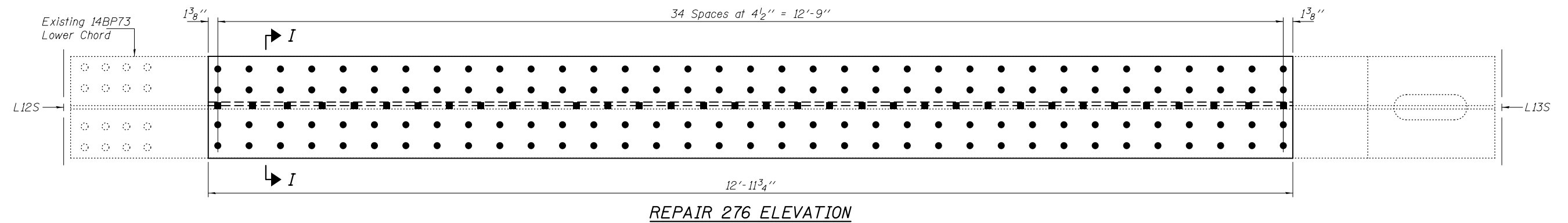
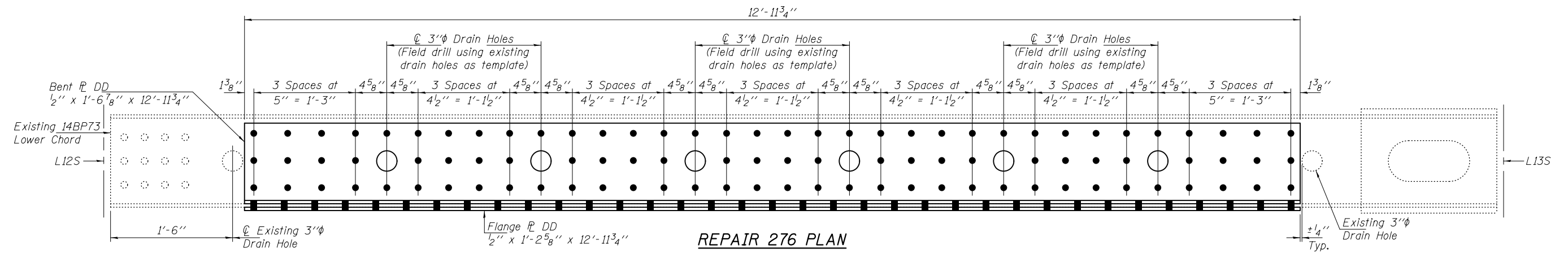
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Default	PLOT DATE = 9/9/2014	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**I-80 OVER DESPLAINES RIVER
TEMPORARY TRAFFIC CONTROL PLAN STAGE I**

SCALE: 1"=50' SHEET OF SHEETS STA. 32+00 TO STA. 47+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-3-BR-2	WILL	57	24
CONTRACT NO. 60Y64				
ILLINOIS FED. AID PROJECT				



* Trim diaphragm as required to facilitate installation of Bent P.

DESIGNED - GGE
 CHECKED - TLC
 DRAWN - Kyle M. Steffen/balva
 CHECKED - GGE TLC

EXAMINED
 ACTING ENGINEER OF STRUCTURAL SERVICES
 PASSED
 ACTING ENGINEER OF BRIDGES AND STRUCTURES

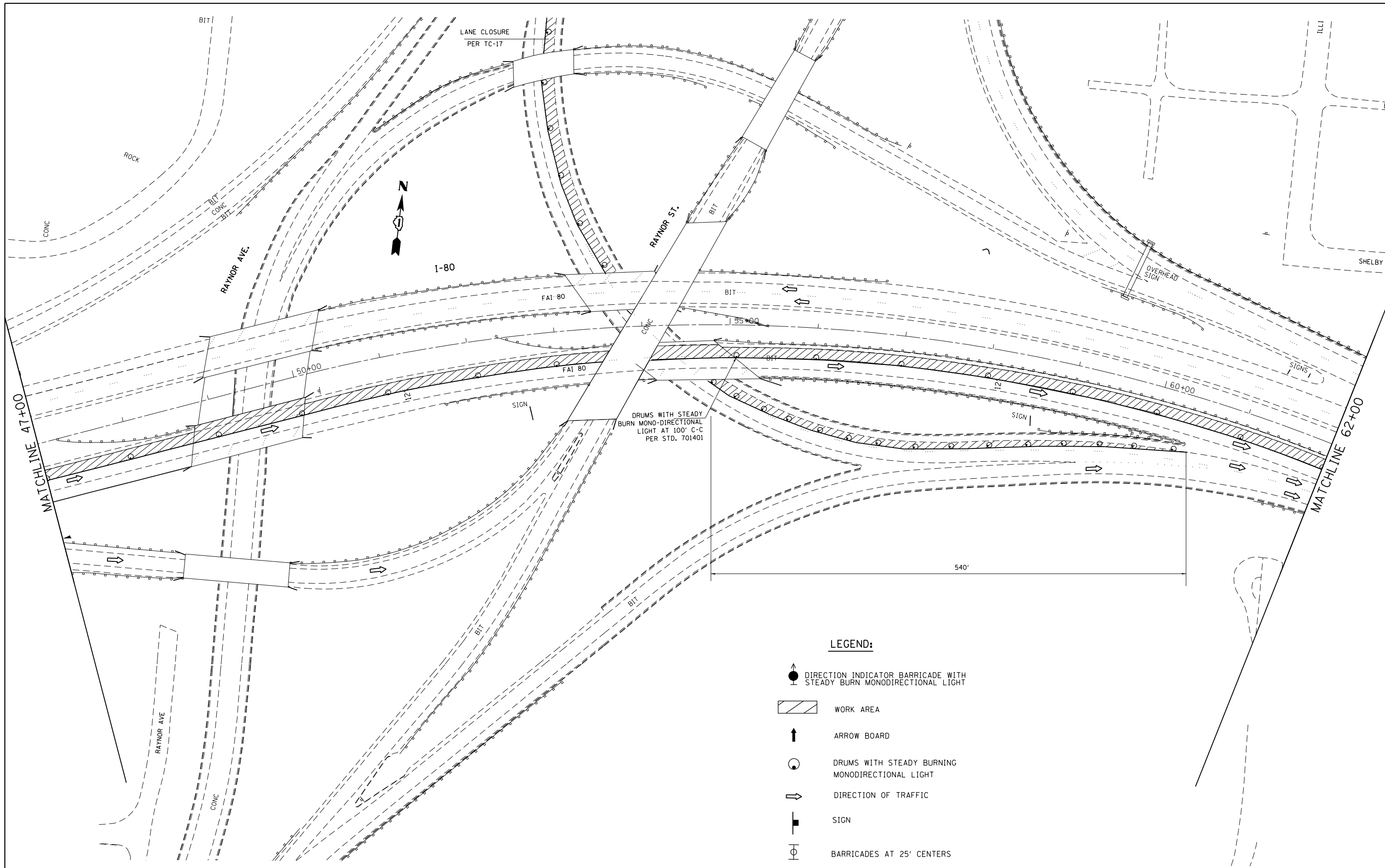
DATE - OCTOBER 17, 2014

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION








REPAIR DETAILS 185 & 276
 SN 099-0057

SHEET NO. 24 OF 24 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-3-BR-2	WILL	57	23D
CONTRACT NO. 60Y64			ILLINOIS FED. AID PROJECT	



LEGEND:

-  DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
-  WORK AREA
-  ARROW BOARD
-  DRUMS WITH STEADY BURNING MONODIRECTIONAL LIGHT
-  DIRECTION OF TRAFFIC
-  SIGN
-  BARRICADES AT 25' CENTERS

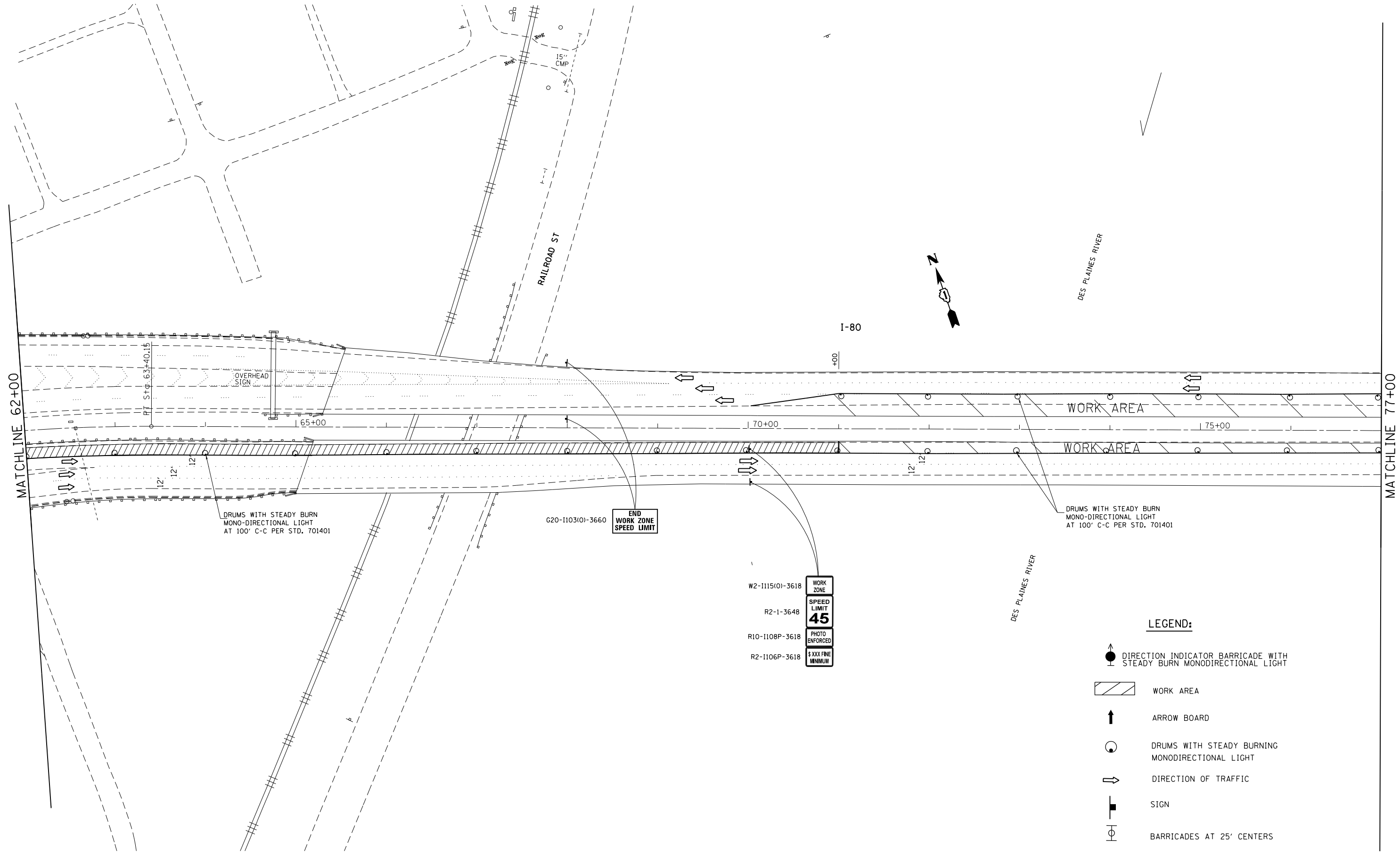
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Default		CHECKED -	REVISED -
	PLOT DATE = 9/8/2014	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**I-80 OVER DESPLAINES RIVER
TEMPORARY TRAFFIC CONTROL PLAN STAGE I**

SCALE: 1"=50' SHEET OF SHEETS STA. 47+00 TO STA. 62+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-3-BR-2	WILL	57	25
CONTRACT NO. 60Y64				
ILLINOIS FED. AID PROJECT				



- W2-1115(O)-3618 WORK ZONE
- R2-1-3648 SPEED LIMIT 45
- R10-1108P-3618 PHOTO ENFORCED
- R2-1106P-3618 \$XXX FINE MINIMUM

- LEGEND:**
- DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
 - WORK AREA
 - ARROW BOARD
 - DRUMS WITH STEADY BURNING MONODIRECTIONAL LIGHT
 - DIRECTION OF TRAFFIC
 - SIGN
 - BARRICADES AT 25' CENTERS

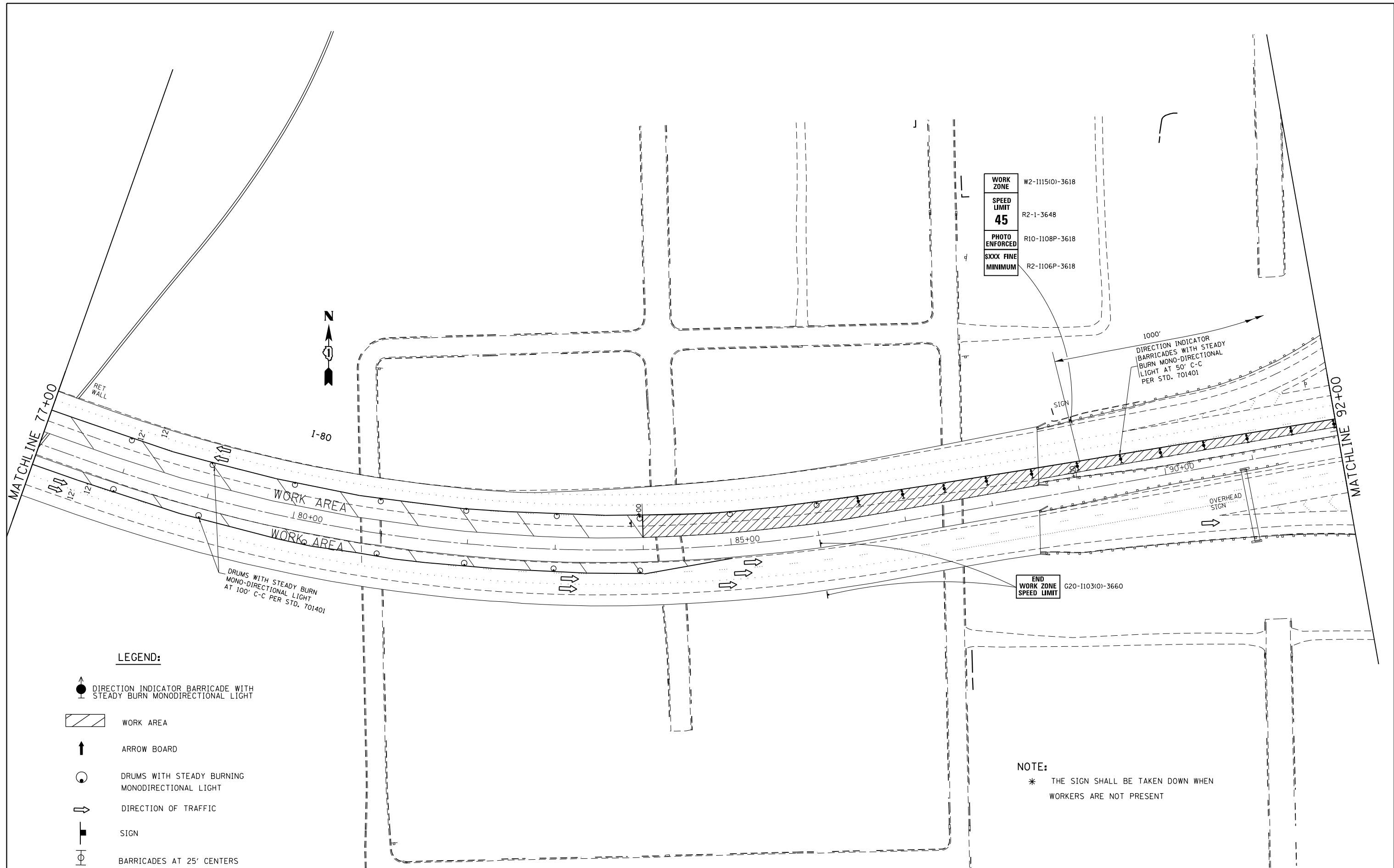
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Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 9/8/2014	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**I-80 OVER DESPLAINES RIVER
TEMPORARY TRAFFIC CONTROL PLAN STAGE I**

SCALE: 1"=50' SHEET OF SHEETS STA. 62+00 TO STA. 77+00








F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-3-BR-2	WILL	57	26
CONTRACT NO. 60Y64			ILLINOIS FED. AID PROJECT	



WORK ZONE	W2-1115(O)-3618
SPEED LIMIT	R2-1-3648
45	
PHOTO ENFORCED	R10-1108P-3618
SXXX FINE MINIMUM	R2-1106P-3618

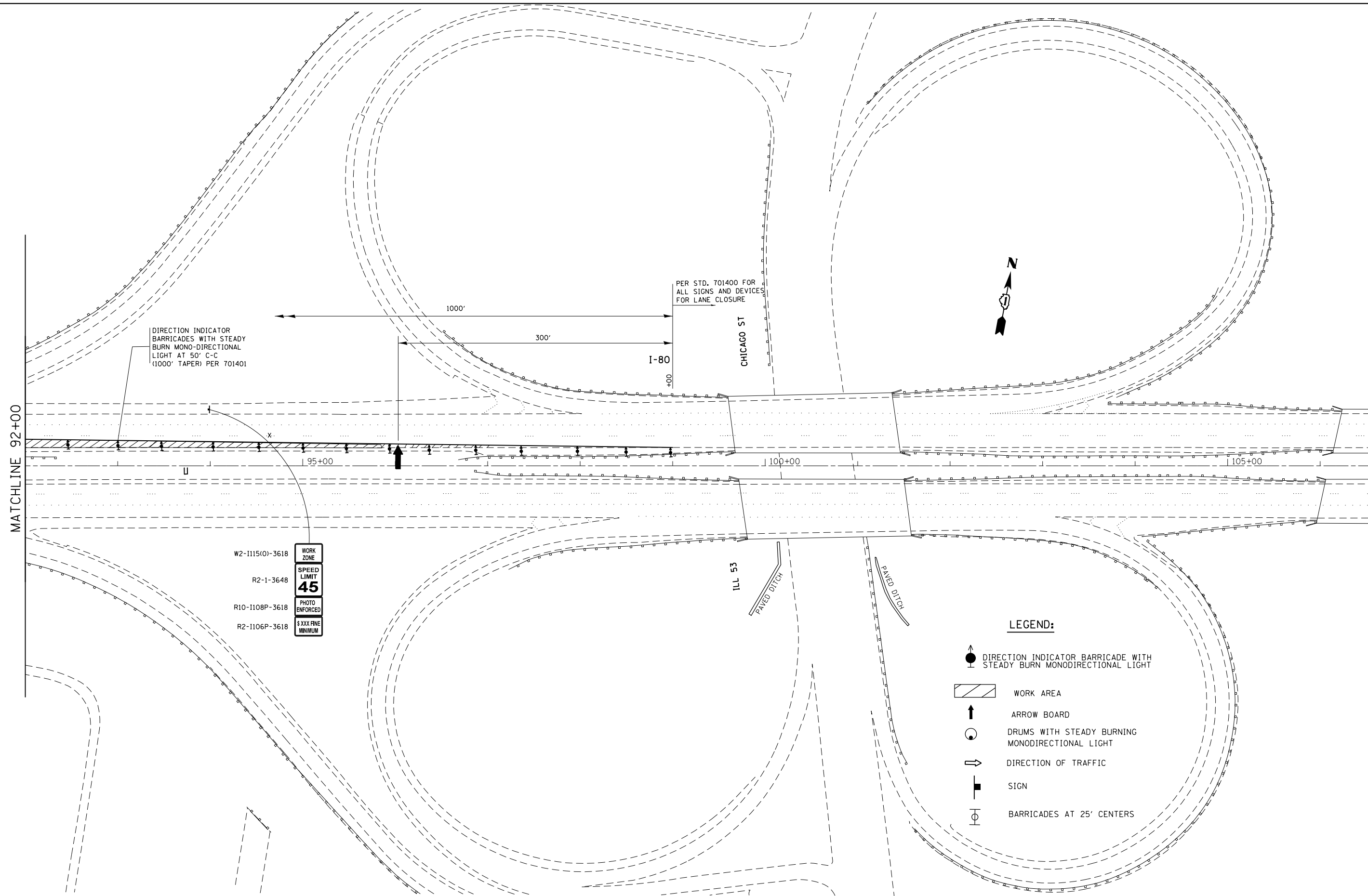
END WORK ZONE SPEED LIMIT G20-1103(O)-3660

LEGEND:

-  DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
-  WORK AREA
-  ARROW BOARD
-  DRUMS WITH STEADY BURNING MONODIRECTIONAL LIGHT
-  DIRECTION OF TRAFFIC
-  SIGN
-  BARRICADES AT 25' CENTERS

NOTE:
* THE SIGN SHALL BE TAKEN DOWN WHEN WORKERS ARE NOT PRESENT

FILE NAME =	USER NAME = Gorengautab	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	I-80 OVER DESPLAINES RIVER TEMPORARY TRAFFIC CONTROL PLAN STAGE I	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
Default	Default	DRAWN -	REVISED -			80	99-3-BR-2	WILL	57	27	
		CHECKED -	REVISED -			CONTRACT NO. 60Y64					
		DATE -	REVISED -			ILLINOIS FED. AID PROJECT					
					SCALE: 1"=50'	SHEET	OF	SHEETS	STA. 77+00	TO STA. 92+00	



DIRECTION INDICATOR BARRICADES WITH STEADY BURN MONO-DIRECTIONAL LIGHT AT 50' C-C (1000' TAPER) PER 701401

PER STD. 701400 FOR ALL SIGNS AND DEVICES FOR LANE CLOSURE

W2-1115(O)-3618
R2-1-3648
R10-1108P-3618
R2-1106P-3618

WORK ZONE
SPEED LIMIT 45
PHOTO ENFORCED
\$ XXX FINE MINIMUM

- LEGEND:**
- DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
 - WORK AREA
 - ARROW BOARD
 - DRUMS WITH STEADY BURNING MONODIRECTIONAL LIGHT
 - DIRECTION OF TRAFFIC
 - SIGN
 - BARRICADES AT 25' CENTERS

MATCHLINE 92+00

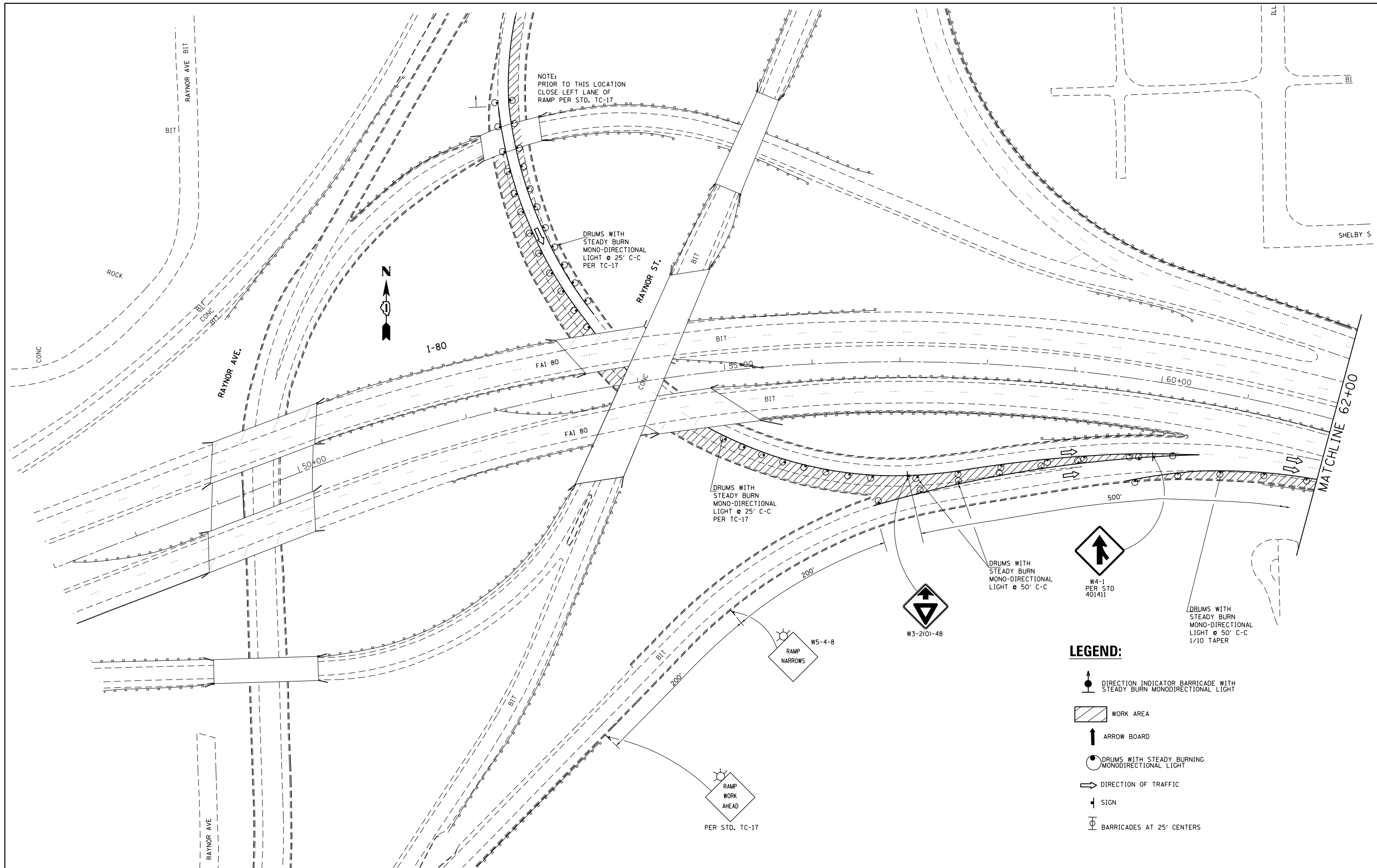
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**I-80 OVER DESPLAINES RIVER
TEMPORARY TRAFFIC CONTROL PLAN STAGE I**

SCALE: 1"=50' SHEET OF SHEETS STA. 92+00 TO STA. 107+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-3-BR-2	WILL	57	28
CONTRACT NO. 60Y64				
ILLINOIS FED. AID PROJECT				



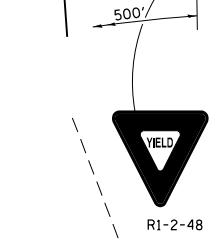
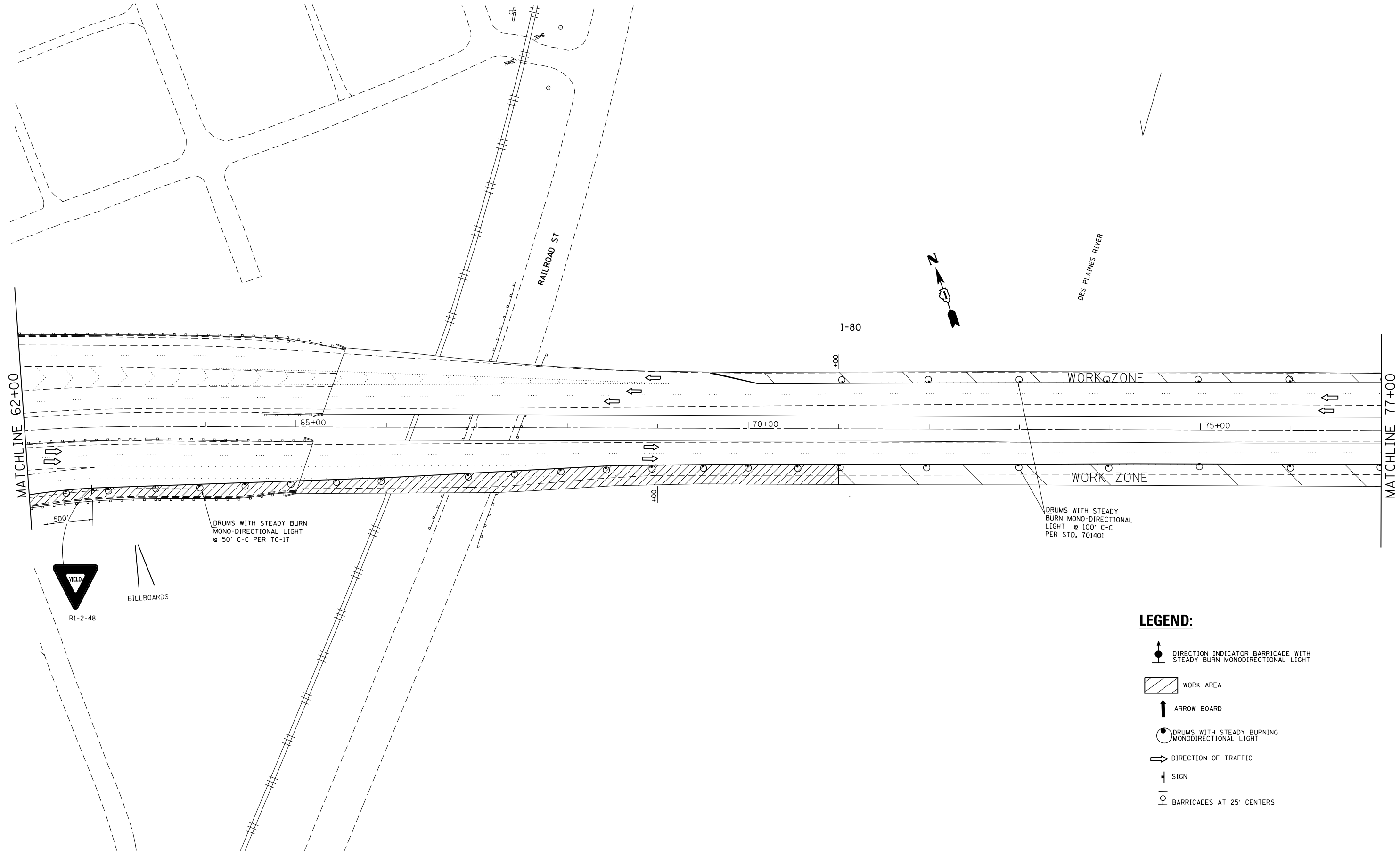
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	PLOT DATE = 9/8/2014	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**I-80 OVER DESPLAINES RIVER
TEMPORARY TRAFFIC CONTROL PLAN STAGE II**

SCALE: 1"=50' SHEET OF SHEETS STA. 47+00 TO STA. 62+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-3-BR-2	WILL	50	29
CONTRACT NO. 60Y64				
ILLINOIS FED. AID PROJECT				



BILLBOARDS

DRUMS WITH STEADY BURN MONO-DIRECTIONAL LIGHT @ 50' C-C PER TC-17

DRUMS WITH STEADY BURN MONO-DIRECTIONAL LIGHT @ 100' C-C PER STD. 701401

LEGEND:

- DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- WORK AREA
- ARROW BOARD
- DRUMS WITH STEADY BURNING MONODIRECTIONAL LIGHT
- DIRECTION OF TRAFFIC
- SIGN
- BARRICADES AT 25' CENTERS

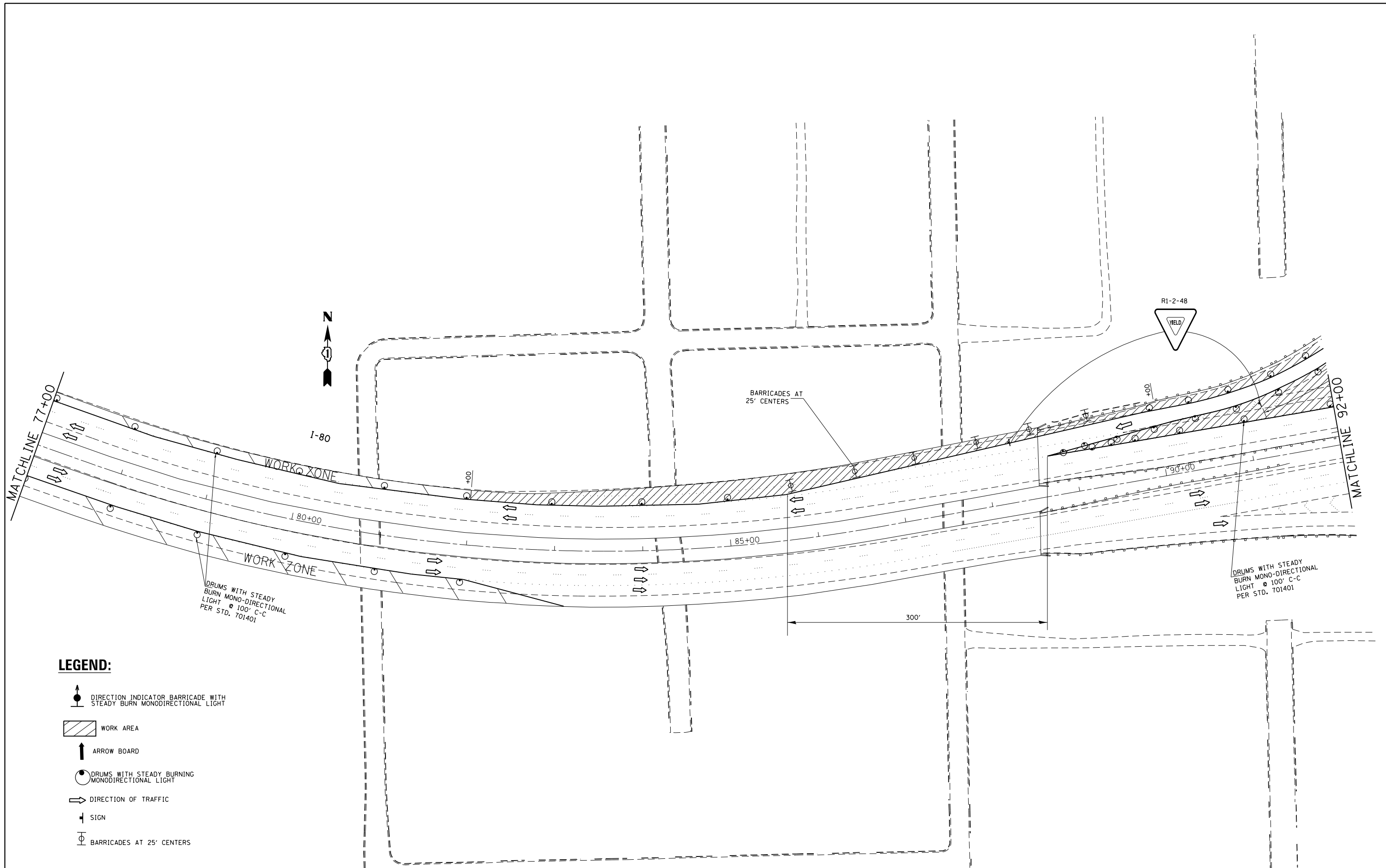
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	PLOT DATE = 9/8/2014	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**








**I-80 OVER DESPLAINES RIVER
TEMPORARY TRAFFIC CONTROL PLAN STAGE II**

SCALE: 1"=50' SHEET OF SHEETS STA. 62+00 TO STA. 77+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-3-BR-2	WILL	50	30
CONTRACT NO. 60Y64			ILLINOIS FED. AID PROJECT	



LEGEND:

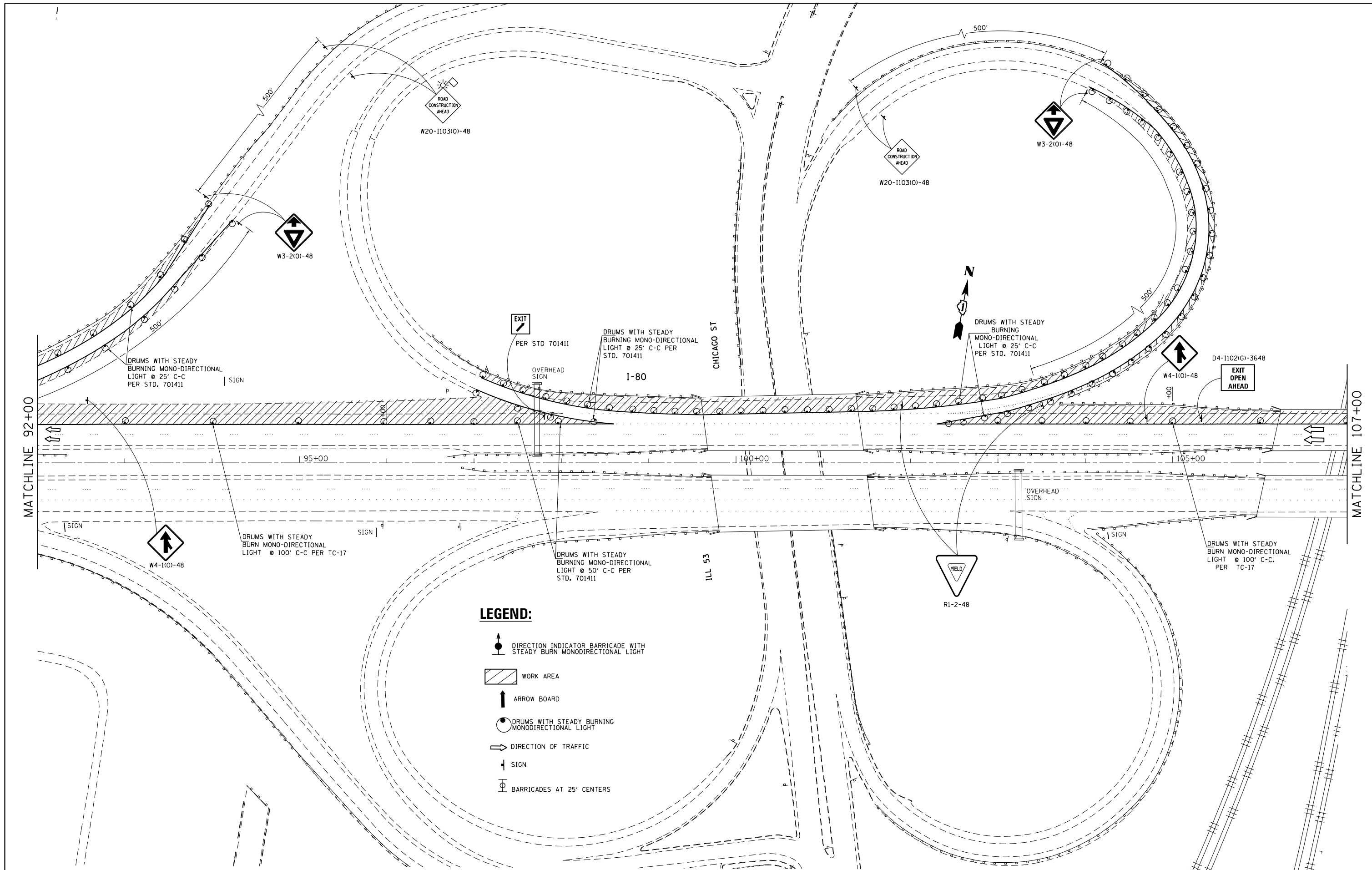
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-  WORK AREA
-  ARROW BOARD
-  DRUMS WITH STEADY BURNING MONODIRECTIONAL LIGHT
-  DIRECTION OF TRAFFIC
-  SIGN
-  BARRICADES AT 25' CENTERS

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





**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

I-80 OVER DESPLAINES RIVER TEMPORARY TRAFFIC CONTROL PLAN STAGE II			
SCALE: 1"=50'	SHEET	OF	SHEETS
	STA. 77+00		TO STA. 92+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-3-BR-2	WILL	50	31
CONTRACT NO. 60Y64				
ILLINOIS FED. AID PROJECT				



LEGEND:

-  DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
-  WORK AREA
-  ARROW BOARD
-  DRUMS WITH STEADY BURNING MONODIRECTIONAL LIGHT
-  DIRECTION OF TRAFFIC
-  SIGN
-  BARRICADES AT 25' CENTERS

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





**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**I-80 OVER DESPLAINES RIVER
TEMPORARY TRAFFIC CONTROL PLAN STAGE II**

SCALE: 1"=50' SHEET OF SHEETS STA. 92+00 TO STA. 107+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-3-BR-2	WILL	50	32
CONTRACT NO. 60Y64				
ILLINOIS FED. AID PROJECT				

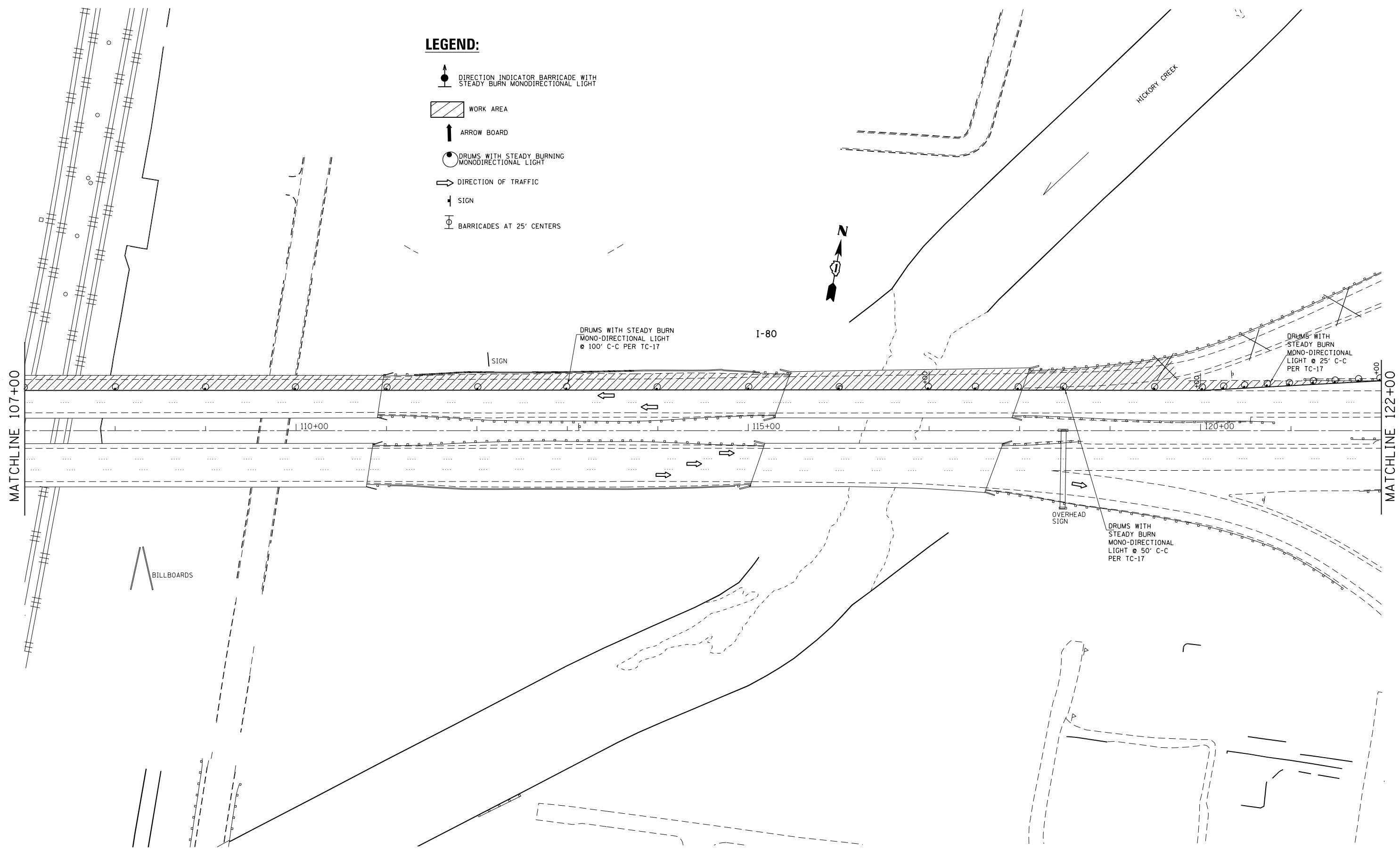
LEGEND:

-  DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
-  WORK AREA
-  ARROW BOARD
-  DRUMS WITH STEADY BURNING MONODIRECTIONAL LIGHT
-  DIRECTION OF TRAFFIC
-  SIGN
-  BARRICADES AT 25' CENTERS



MATCHLINE 107+00

MATCHLINE 122+00



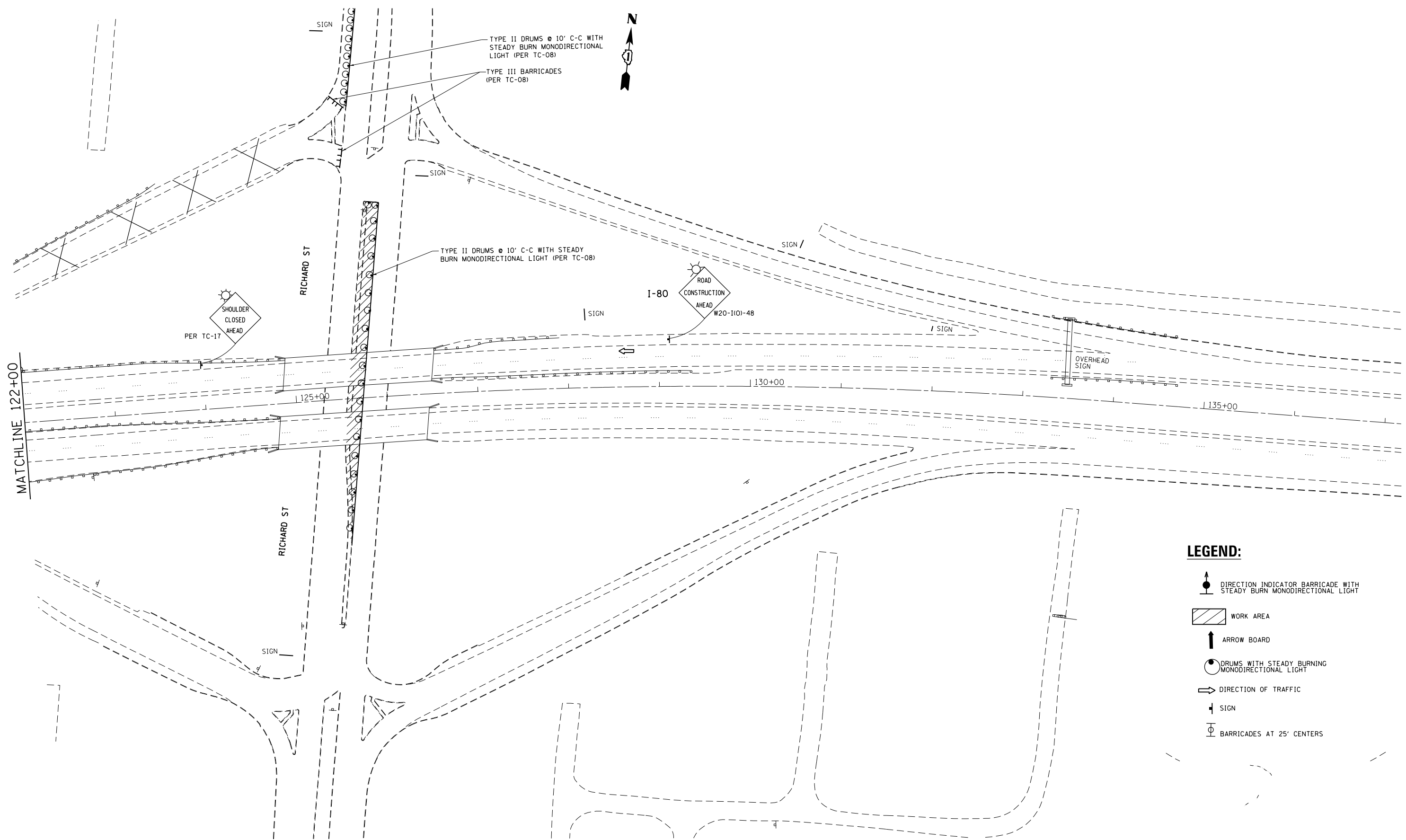
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**I-80 OVER DESPLAINES RIVER
TEMPORARY TRAFFIC CONTROL PLAN STAGE II**

SCALE: 1"=50' SHEET OF SHEETS STA. 107+00 TO STA. 122+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-3-BR-2	WILL	50	33
CONTRACT NO. 60Y64				
ILLINOIS FED. AID PROJECT				



TYPE II DRUMS @ 10' C-C WITH STEADY BURN MONODIRECTIONAL LIGHT (PER TC-08)

TYPE III BARRICADES (PER TC-08)

TYPE II DRUMS @ 10' C-C WITH STEADY BURN MONODIRECTIONAL LIGHT (PER TC-08)

SHOULDER CLOSED AHEAD
PER TC-17

I-80
ROAD CONSTRUCTION AHEAD
W20-1(O)-48

OVERHEAD SIGN

MATCHLINE 122+00

RICHARD ST

RICHARD ST

LEGEND:

- DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- WORK AREA
- ARROW BOARD
- DRUMS WITH STEADY BURNING MONODIRECTIONAL LIGHT
- DIRECTION OF TRAFFIC
- SIGN
- BARRICADES AT 25' CENTERS

FILE NAME =	USER NAME = Gorengautab	DESIGNED -	REVISED -
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Default	PLOT DATE = 9/8/2014	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**I-80 OVER DESPLAINES RIVER
TEMPORARY TRAFFIC CONTROL PLAN STAGE II**

SCALE: 1"=50' SHEET OF SHEETS STA. 122+00 TO STA. 137+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-3-BR-2	WILL	50	34
CONTRACT NO. 60Y64				
ILLINOIS FED. AID PROJECT				










I-80

MATCHLINE 17+00

MATCHLINE 32+00

LEGEND:

-  DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
-  WORK AREA
-  ARROW BOARD
-  DRUMS WITH STEADY BURNING MONODIRECTIONAL LIGHT
-  DIRECTION OF TRAFFIC
-  SIGN
-  BARRICADES AT 25' CENTERS

PAVED DITCH

PAVED DITCH

SIGN

SIGN

20+00

25+00

30+00

PAVED DITCH

BILLBOARDS

PP-177

TRAFFIC CONTROL & SIGNAGE PER STD. 701400 FOR LANE CLOSURE

DIRECTION INDICATOR BARRICADES WITH STEADY BURN MONO-DIRECTIONAL LIGHT AT 50' C-C (1000' TAPER) PER 701401

1000'

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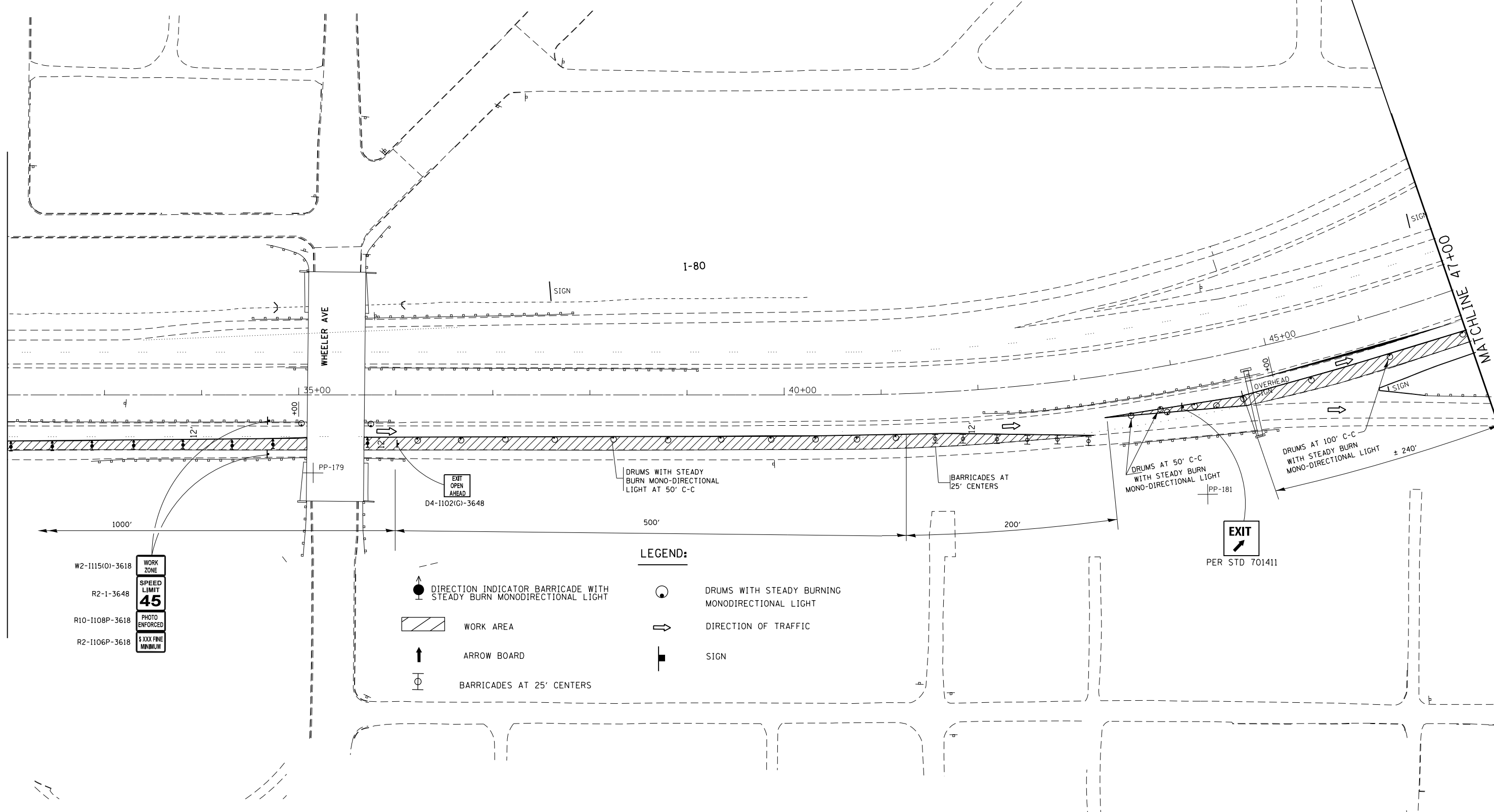
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**I-80 OVER DESPLAINES RIVER
TEMPORARY TRAFFIC CONTROL PLAN WITH LANE 2 & 3 CLOSED**

SCALE: 1"=50' SHEET OF SHEETS STA. 17+00 TO STA. 32+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-3-BR-2	WILL	57	35
				CONTRACT NO. 60Y64
ILLINOIS FED. AID PROJECT				

MATCHLINE 32+00



- W2-I115(O)-3618 WORK ZONE
- R2-1-3648 SPEED LIMIT 45
- R10-I108P-3618 PHOTO ENFORCED
- R2-I106P-3618 \$XXX FINE MINIMUM

LEGEND:

- DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- WORK AREA
- ARROW BOARD
- BARRICADES AT 25' CENTERS
- DRUMS WITH STEADY BURNING MONODIRECTIONAL LIGHT
- DIRECTION OF TRAFFIC
- SIGN

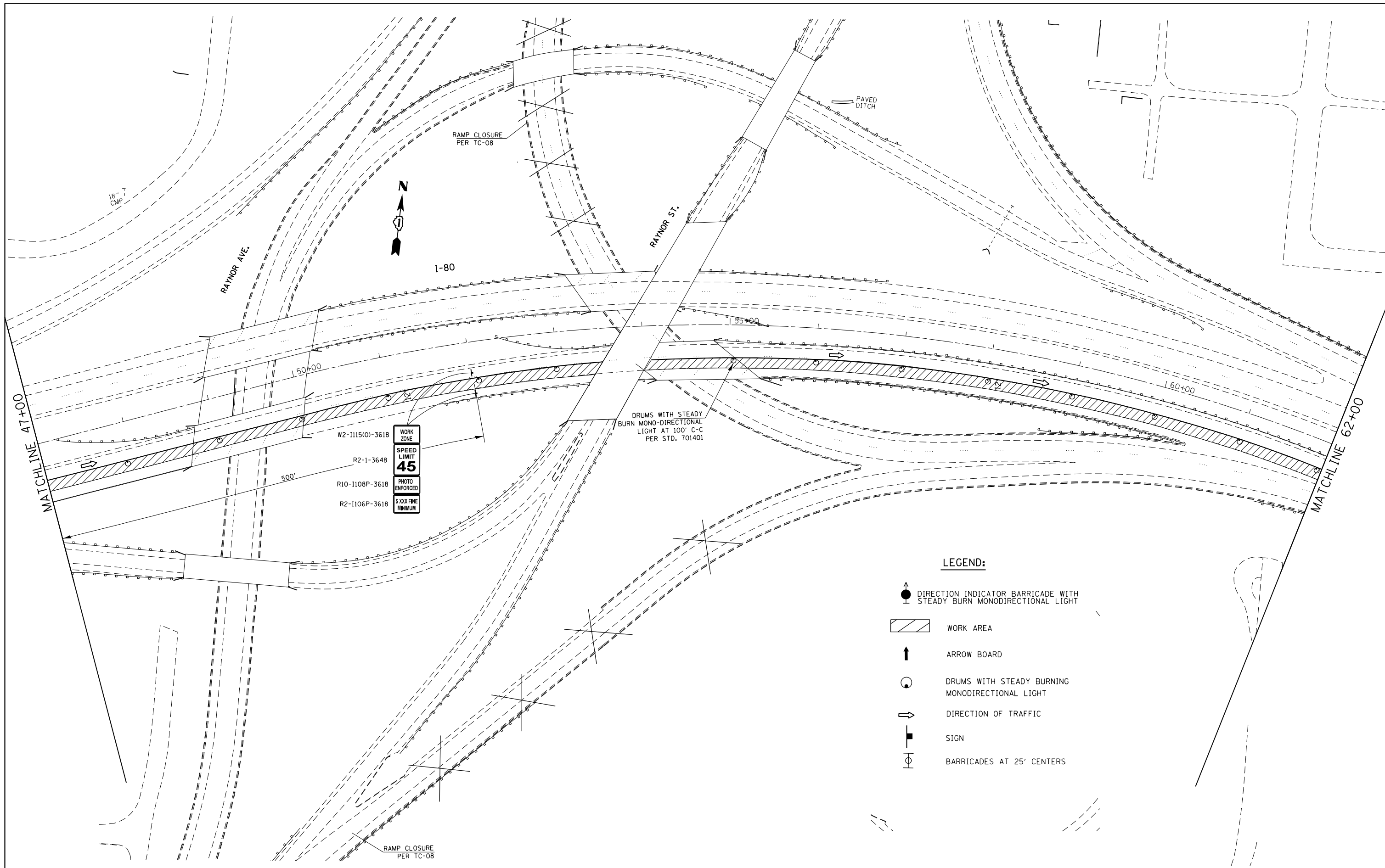
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**I-80 OVER DESPLAINES RIVER
TEMPORARY TRAFFIC CONTROL PLAN WITH LANE 2 & 3 CLOSED**

SCALE: 1"=50' SHEET OF SHEETS STA. 32+00 TO STA. 47+00








F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-3-BR-2	WILL	57	36
CONTRACT NO. 60Y64				
ILLINOIS FED. AID PROJECT				



WORK ZONE
SPEED LIMIT
45
PHOTO ENFORCED
\$ XXX FINE
MINIMUM

DRUMS WITH STEADY BURN MONO-DIRECTIONAL LIGHT AT 100' C-C PER STD. 701401

LEGEND:

-  DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
-  WORK AREA
-  ARROW BOARD
-  DRUMS WITH STEADY BURNING MONODIRECTIONAL LIGHT
-  DIRECTION OF TRAFFIC
-  SIGN
-  BARRICADES AT 25' CENTERS

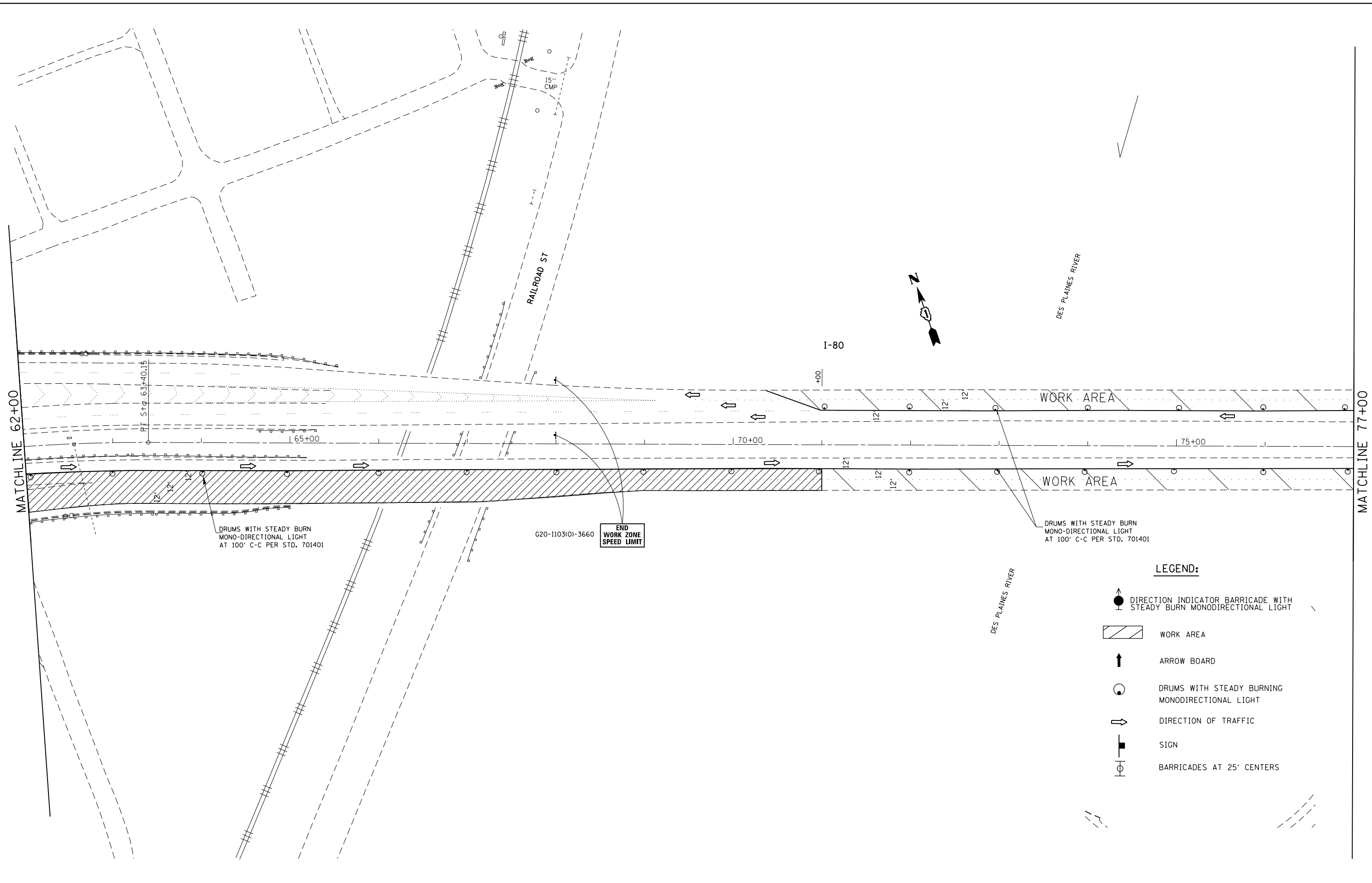
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**I-80 OVER DESPLAINES RIVER
TEMPORARY TRAFFIC CONTROL PLAN WITH LANE 2 & 3 CLOSED**

SCALE: 1"=50' SHEET OF SHEETS STA. 47+00 TO STA. 62+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-3-BR-2	WILL	57	37
CONTRACT NO. 60Y64				
ILLINOIS FED. AID PROJECT				



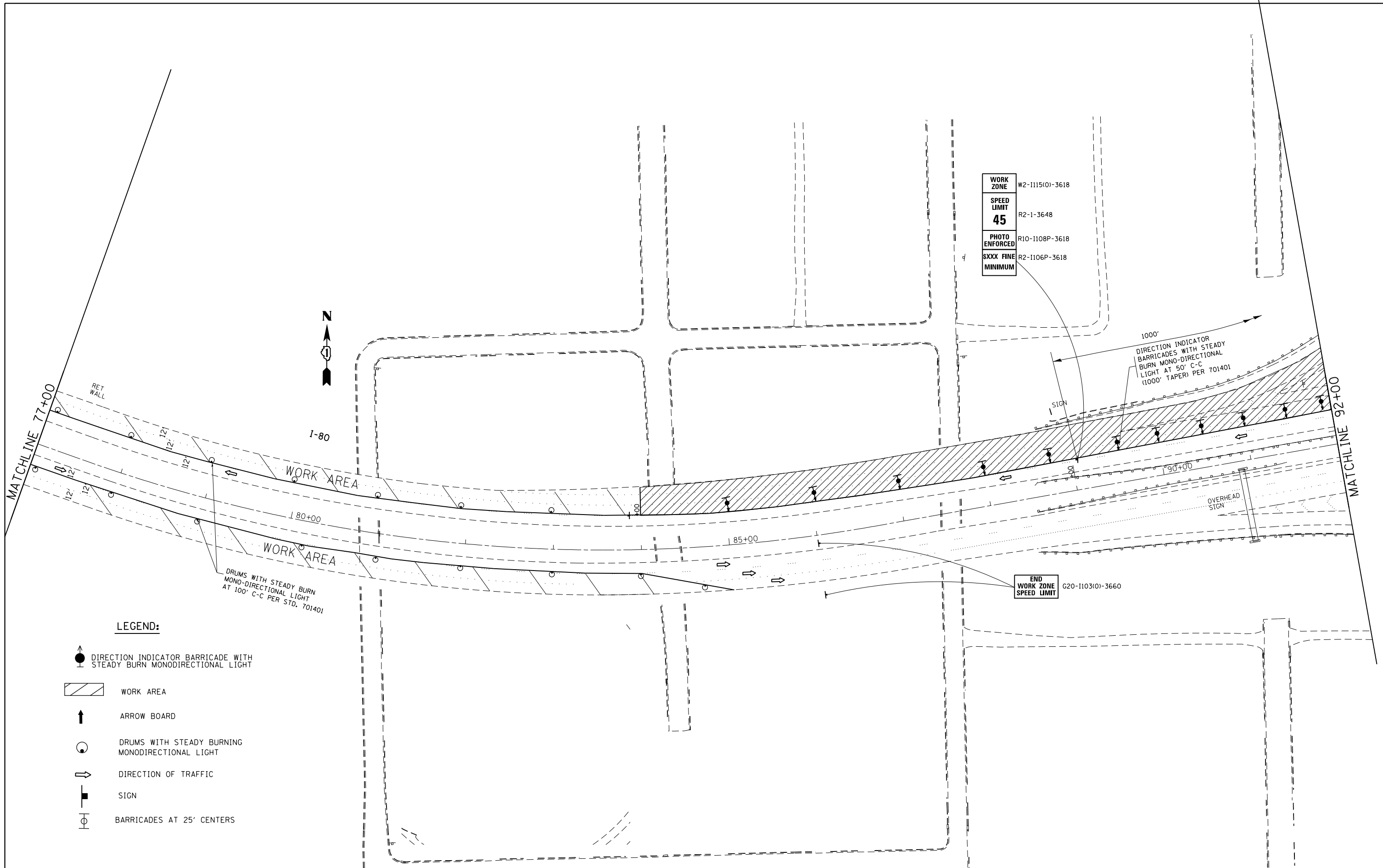
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**I-80 OVER DESPLAINES RIVER
TEMPORARY TRAFFIC CONTROL PLAN WITH LANE 2 & 3 CLOSED**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-3-BR-2	WILL	57	38
			CONTRACT NO. 60Y64	
ILLINOIS FED. AID PROJECT				








SCALE: 1"=50' SHEET OF SHEETS STA. 62+00 TO STA. 77+00



WORK ZONE	W2-1115(O)-3618
SPEED LIMIT	R2-1-3648
45	
PHOTO ENFORCED	R10-1108P-3618
SXXX FINE MINIMUM	R2-1106P-3618

END WORK ZONE SPEED LIMIT G20-1103(O)-3660

LEGEND:

-  DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
-  WORK AREA
-  ARROW BOARD
-  DRUMS WITH STEADY BURNING MONODIRECTIONAL LIGHT
-  DIRECTION OF TRAFFIC
-  SIGN
-  BARRICADES AT 25' CENTERS

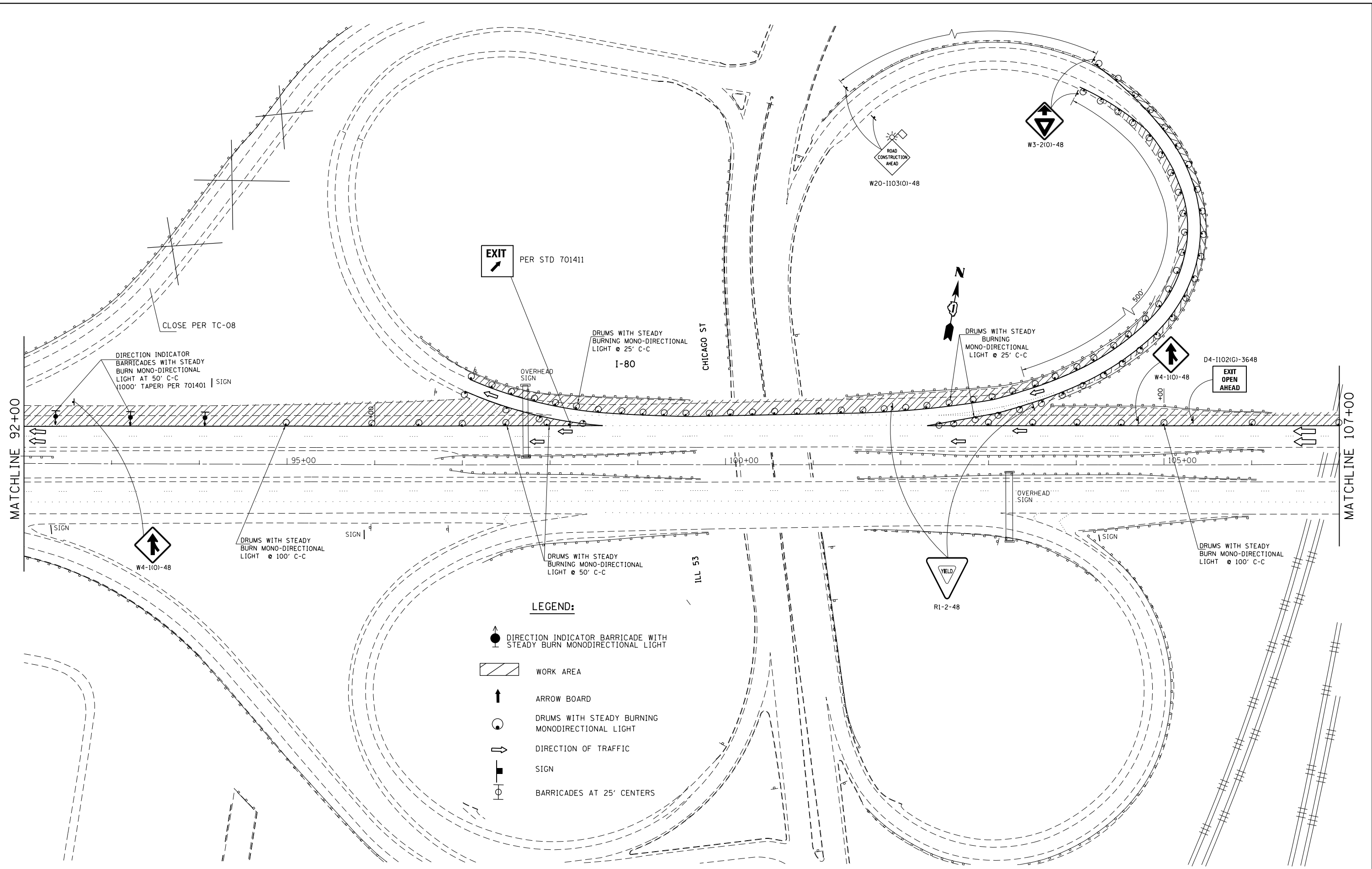
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**I-80 OVER DESPLAINES RIVER
TEMPORARY TRAFFIC CONTROL PLAN WITH LANE 2 & 3 CLOSED**

SCALE: 1"=50' SHEET OF SHEETS STA. 77+00 TO STA. 92+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-3-BR-2	WILL	57	39
CONTRACT NO. 60Y64				
ILLINOIS FED. AID PROJECT				



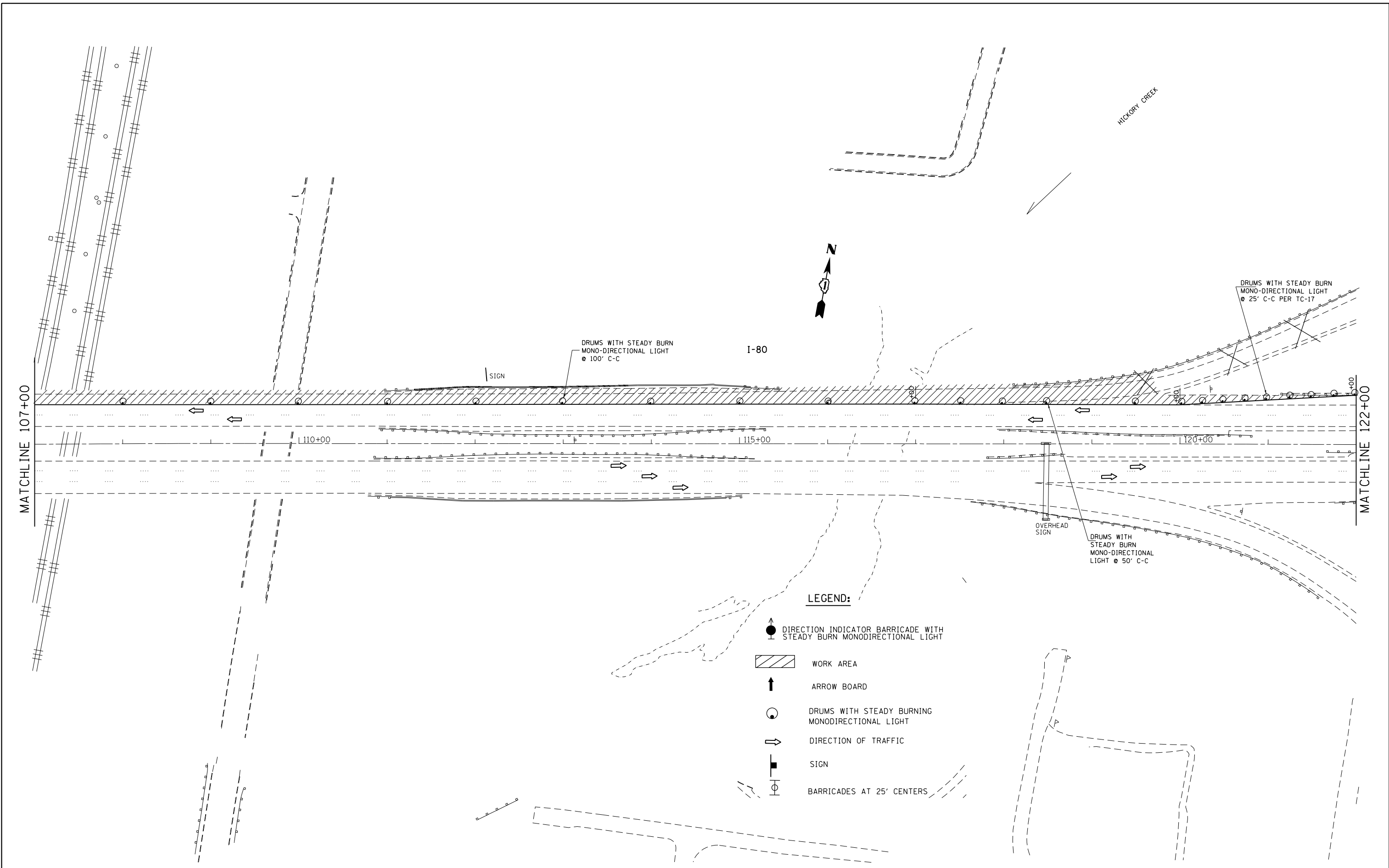
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**








**I-80 OVER DESPLAINES RIVER
TEMPORARY TRAFFIC CONTROL PLAN WITH LANE 2 & 3 CLOSED**

SCALE: 1"=50' SHEET OF SHEETS STA. 92+00 TO STA. 107+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-3-BR-2	WILL	57	40
CONTRACT NO. 60Y64				
ILLINOIS FED. AID PROJECT				



LEGEND:

-  DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
-  WORK AREA
-  ARROW BOARD
-  DRUMS WITH STEADY BURNING MONODIRECTIONAL LIGHT
-  DIRECTION OF TRAFFIC
-  SIGN
-  BARRICADES AT 25' CENTERS

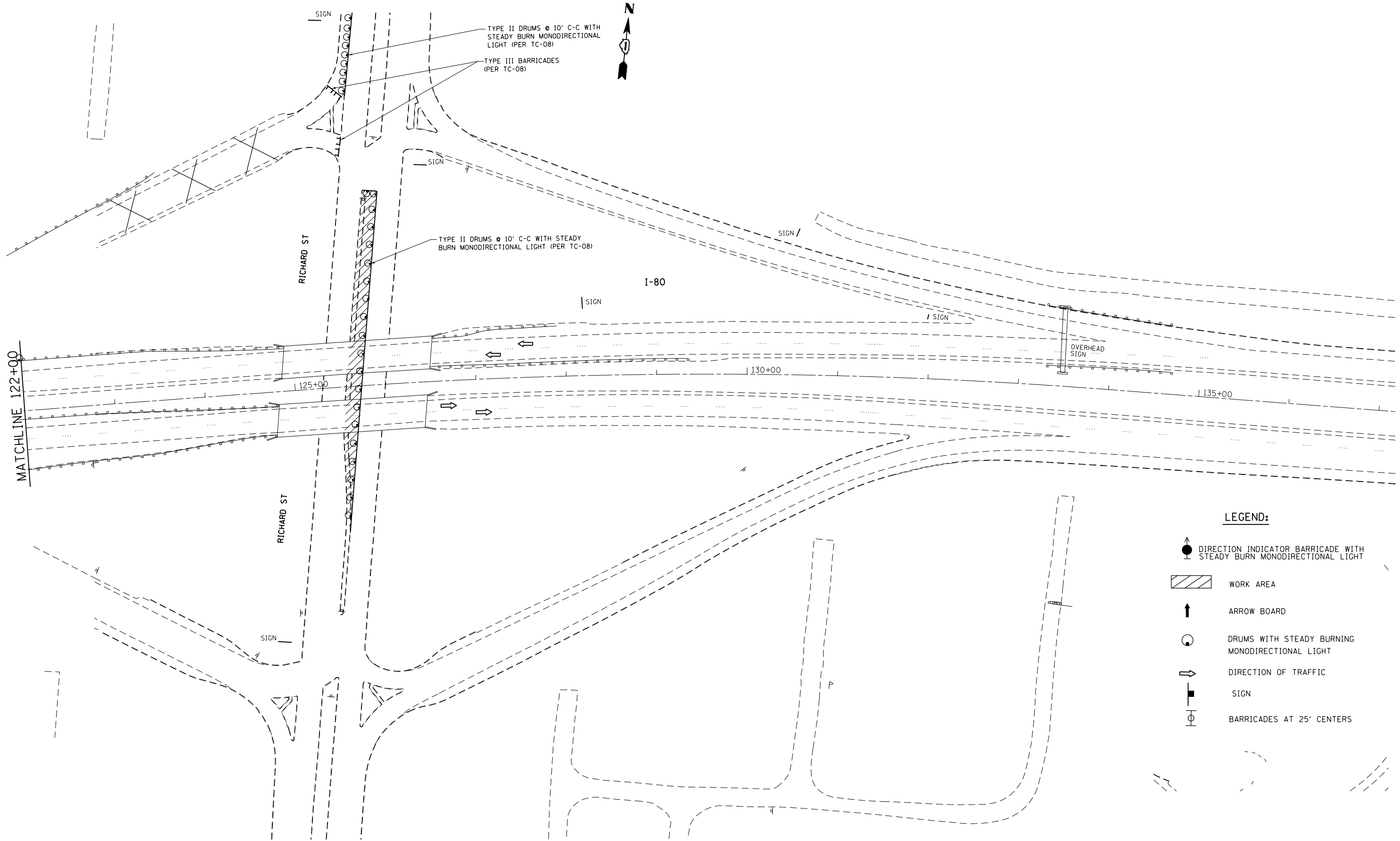
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**I-80 OVER DESPLAINES RIVER
TEMPORARY TRAFFIC CONTROL PLAN WITH LANE 2 & 3 CLOSED**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-3-BR-2	WILL	57	41
CONTRACT NO. 60Y64				
ILLINOIS FED. AID PROJECT				

SCALE: 1"=50' SHEET OF SHEETS STA. 107+00 TO STA. 122+00










TYPE II DRUMS @ 10' C-C WITH STEADY BURN MONODIRECTIONAL LIGHT (PER TC-08)

TYPE III BARRICADES (PER TC-08)

TYPE II DRUMS @ 10' C-C WITH STEADY BURN MONODIRECTIONAL LIGHT (PER TC-08)

LEGEND:

-  DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
-  WORK AREA
-  ARROW BOARD
-  DRUMS WITH STEADY BURNING MONODIRECTIONAL LIGHT
-  DIRECTION OF TRAFFIC
-  SIGN
-  BARRICADES AT 25' CENTERS

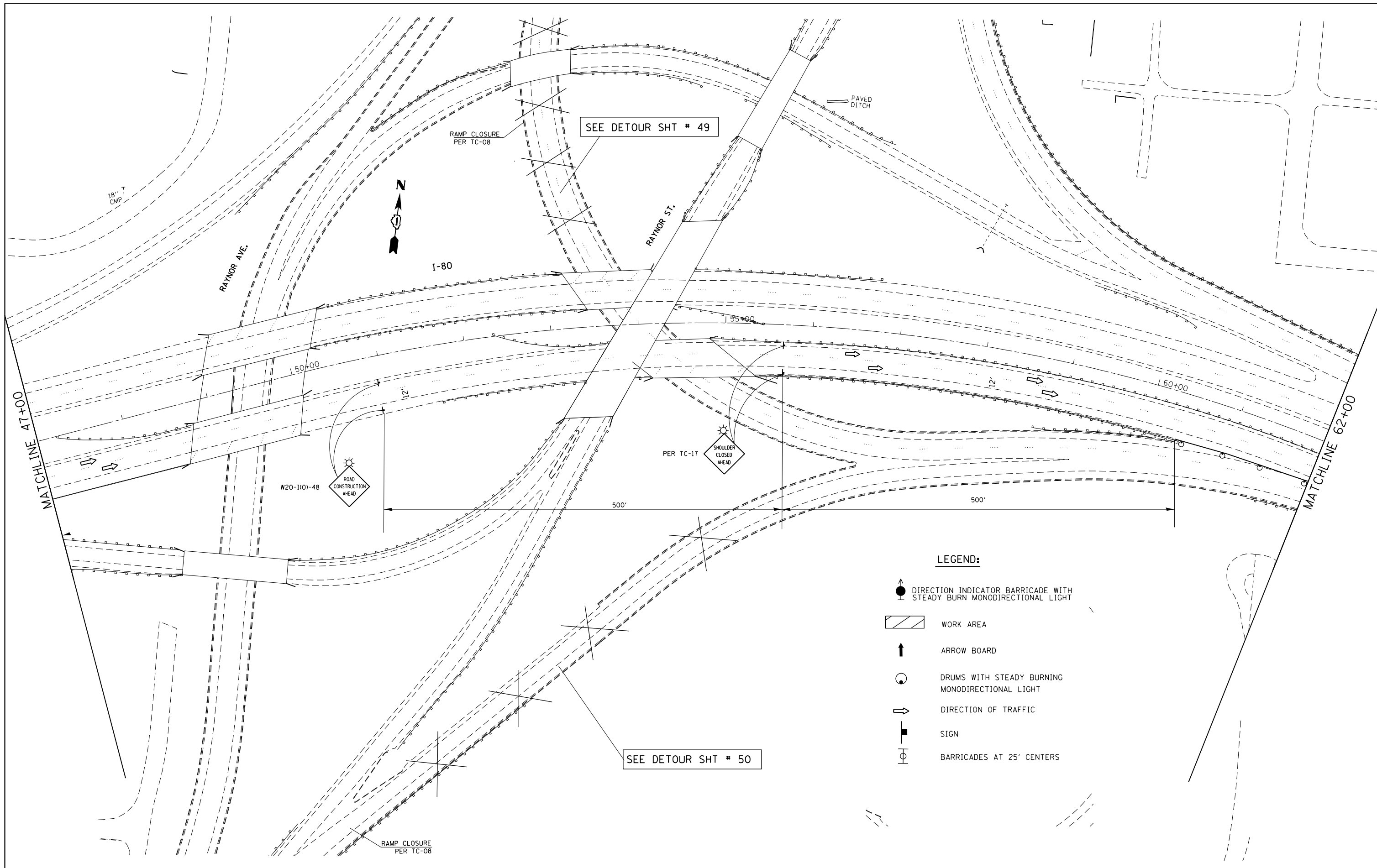
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**








**I-80 OVER DESPLAINES RIVER
TEMPORARY TRAFFIC CONTROL PLAN WITH LANE 2 & 3 CLOSED**

SCALE: 1"=50' SHEET OF SHEETS STA. 122+00 TO STA. 137+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-3-BR-2	WILL	57	42
				CONTRACT NO. 60Y64
ILLINOIS FED. AID PROJECT				



LEGEND:

-  DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
-  WORK AREA
-  ARROW BOARD
-  DRUMS WITH STEADY BURNING MONODIRECTIONAL LIGHT
-  DIRECTION OF TRAFFIC
-  SIGN
-  BARRICADES AT 25' CENTERS

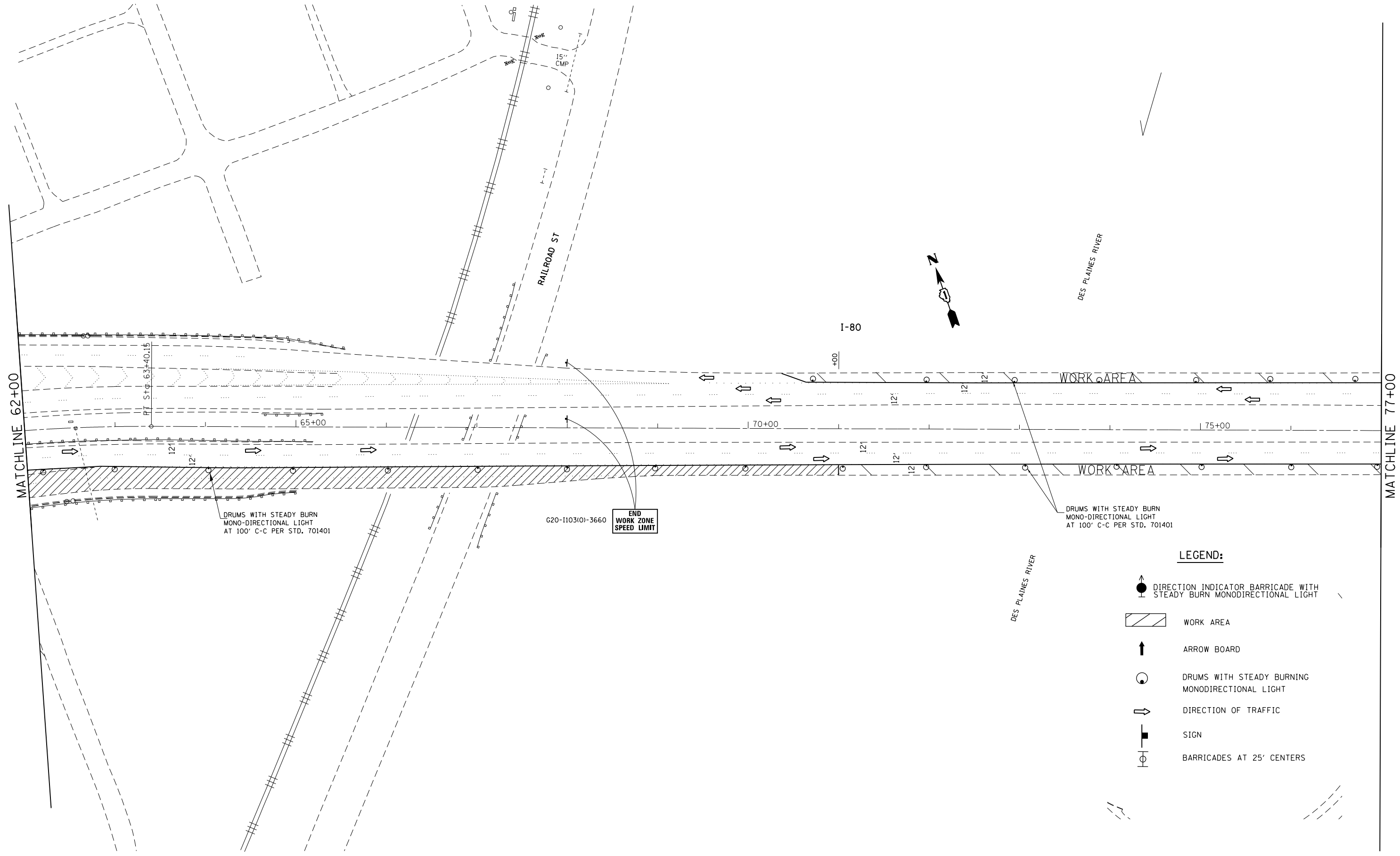
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**I-80 OVER DESPLAINES RIVER
TRAFFIC CONTROL PLAN FOR PERMANENT
LANE CLOSURE AND RAMP CLOSURES**

SCALE: 1"=50' SHEET OF SHEETS STA. 47+00 TO STA. 62+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-3-BR-2	WILL	57	43
CONTRACT NO. 60Y64				
ILLINOIS FED. AID PROJECT				



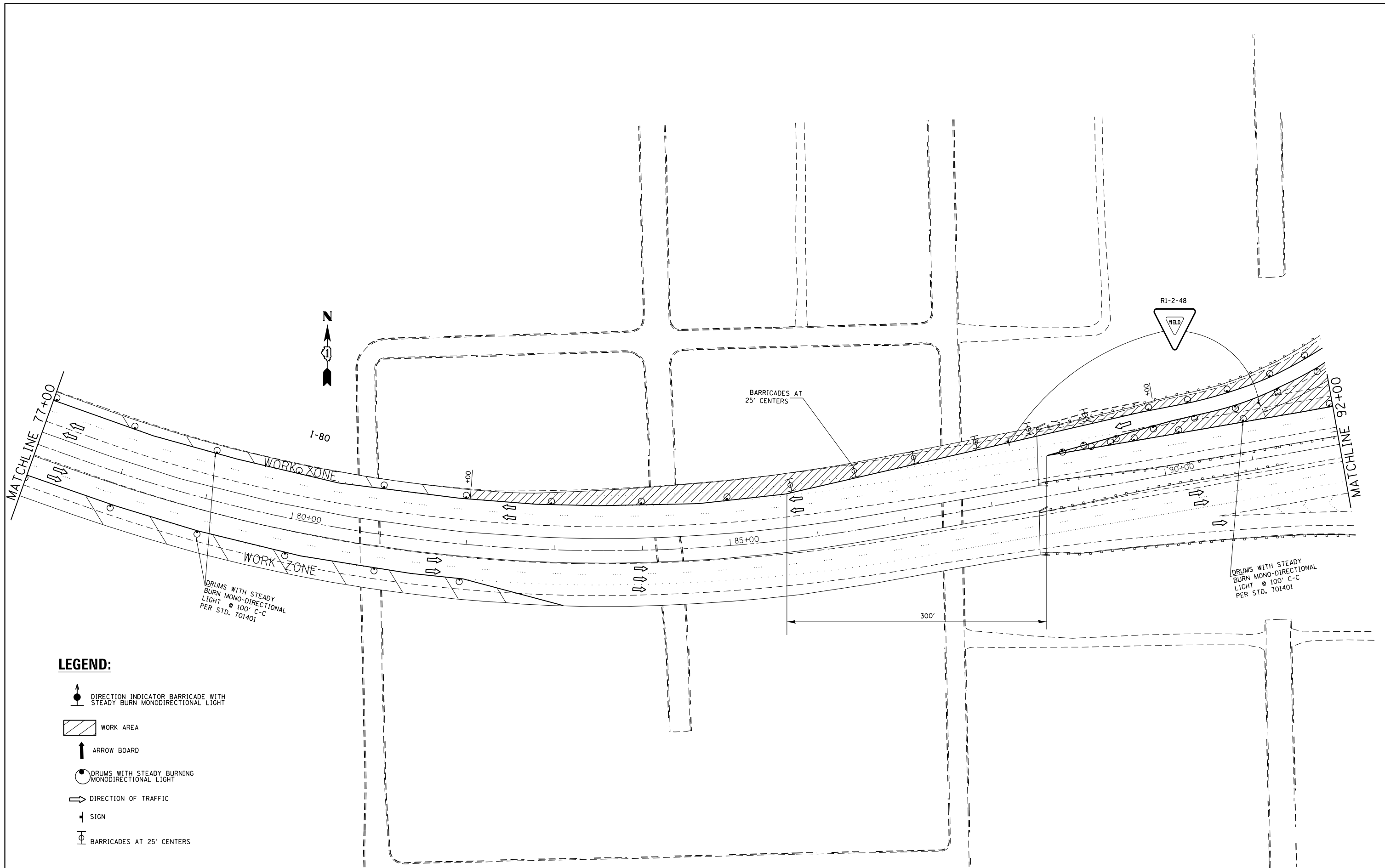
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**








**I-80 OVER DESPLAINES RIVER
TRAFFIC CONTROL PLAN FOR PERMANENT
LANE CLOSURE AND RAMP CLOSURES**

SCALE: 1"=50' SHEET OF SHEETS STA. 62+00 TO STA. 77+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-3-BR-2	WILL	57	44
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60Y64	



LEGEND:

-  DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
-  WORK AREA
-  ARROW BOARD
-  DRUMS WITH STEADY BURNING MONODIRECTIONAL LIGHT
-  DIRECTION OF TRAFFIC
-  SIGN
-  BARRICADES AT 25' CENTERS

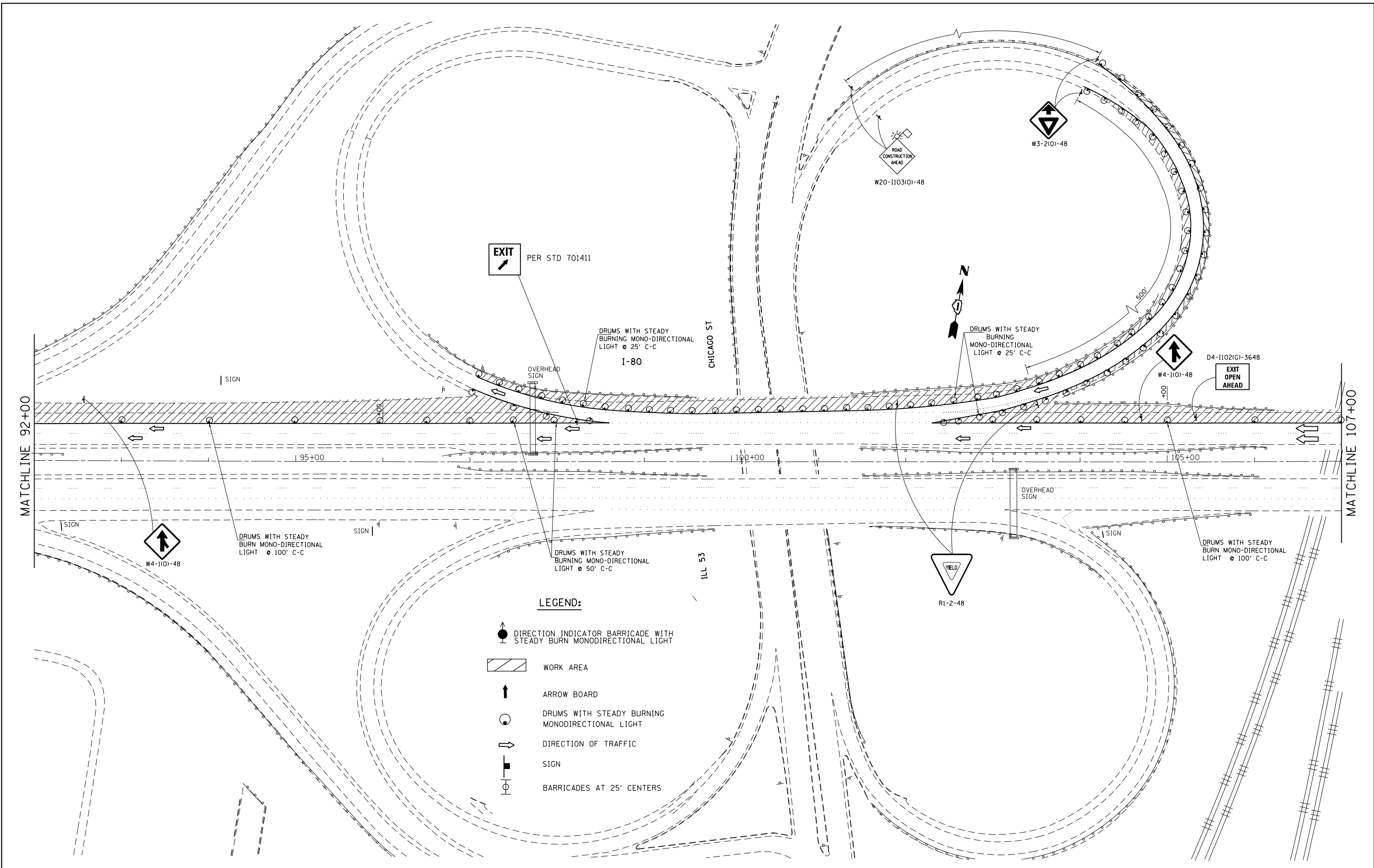
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**I-80 OVER DESPLAINES RIVER
TRAFFIC CONTROL PLAN FOR PERMANENT
LANE CLOSURE AND RAMP CLOSURES**

SCALE: 1"=50' SHEET OF SHEETS STA. 77+00 TO STA. 92+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-3-BR-2	WILL	57	45
CONTRACT NO. 60Y64			ILLINOIS FED. AID PROJECT	



EXIT
PER STD 701411

DRUMS WITH STEADY
BURNING MONO-DIRECTIONAL
LIGHT @ 25' C-C
I-80

DRUMS WITH STEADY
BURNING
MONO-DIRECTIONAL
LIGHT @ 25' C-C

**EXIT
OPEN
AHEAD**

D4-1102(G)-3648








W4-1101-48

DRUMS WITH STEADY
BURN MONO-DIRECTIONAL
LIGHT @ 100' C-C

DRUMS WITH STEADY
BURNING MONO-DIRECTIONAL
LIGHT @ 50' C-C

DRUMS WITH STEADY
BURN MONO-DIRECTIONAL
LIGHT @ 100' C-C

LEGEND:

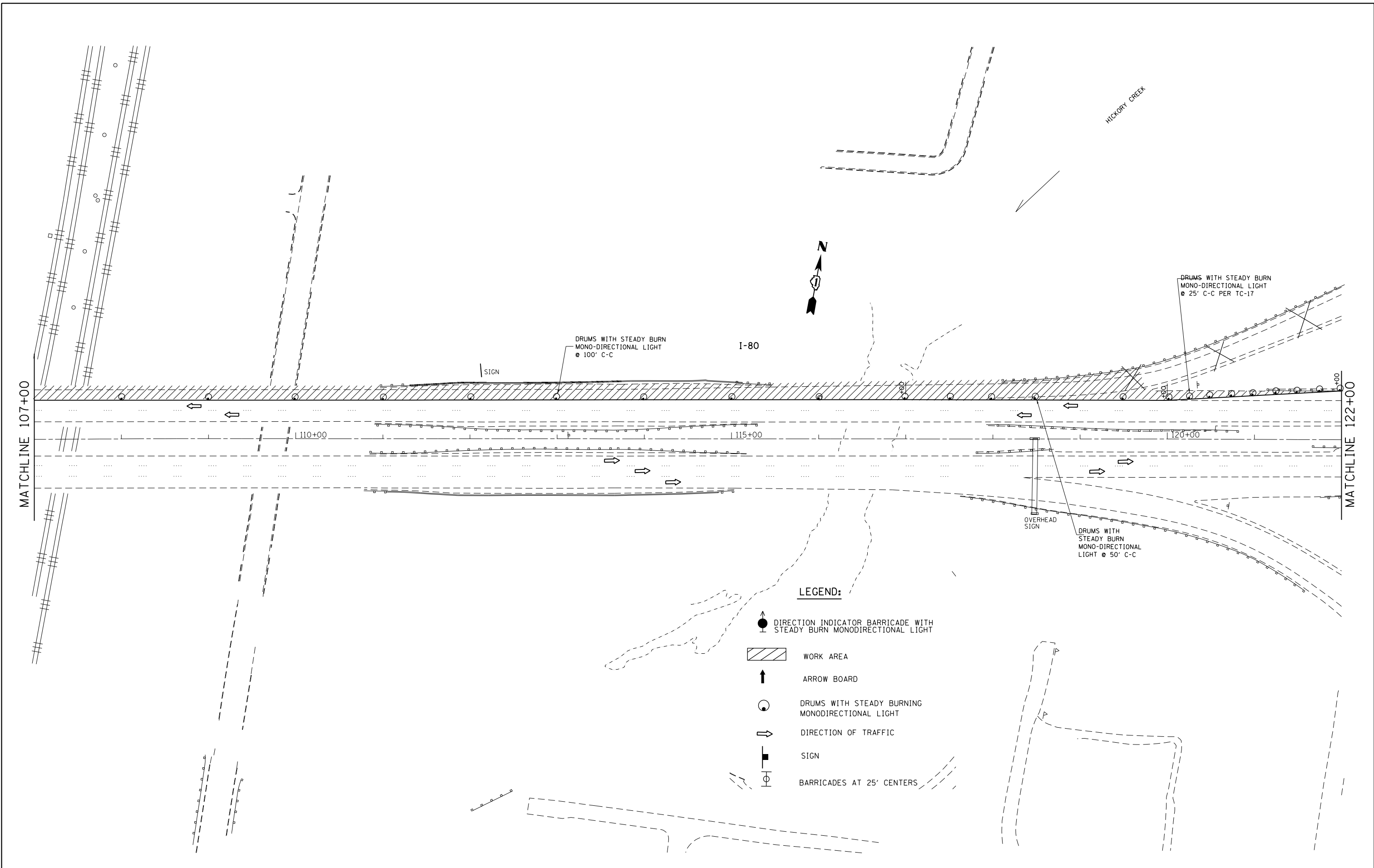
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-  WORK AREA
-  ARROW BOARD
-  DRUMS WITH STEADY BURNING MONODIRECTIONAL LIGHT
-  DIRECTION OF TRAFFIC
-  SIGN
-  BARRICADES AT 25' CENTERS

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





**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

I-80 OVER DESPLAINES RIVER TRAFFIC CONTROL PLAN FOR PERMANENT LANE CLOSURE AND RAMP CLOSURES			
SCALE: 1"=50'	SHEET	OF	SHEETS
	STA. 92+00		TO STA. 107+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-3-BR-2	WILL	57	46
CONTRACT NO. 60Y64				
ILLINOIS FED. AID PROJECT				



LEGEND:

-  DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
-  WORK AREA
-  ARROW BOARD
-  DRUMS WITH STEADY BURNING MONODIRECTIONAL LIGHT
-  DIRECTION OF TRAFFIC
-  SIGN
-  BARRICADES AT 25' CENTERS

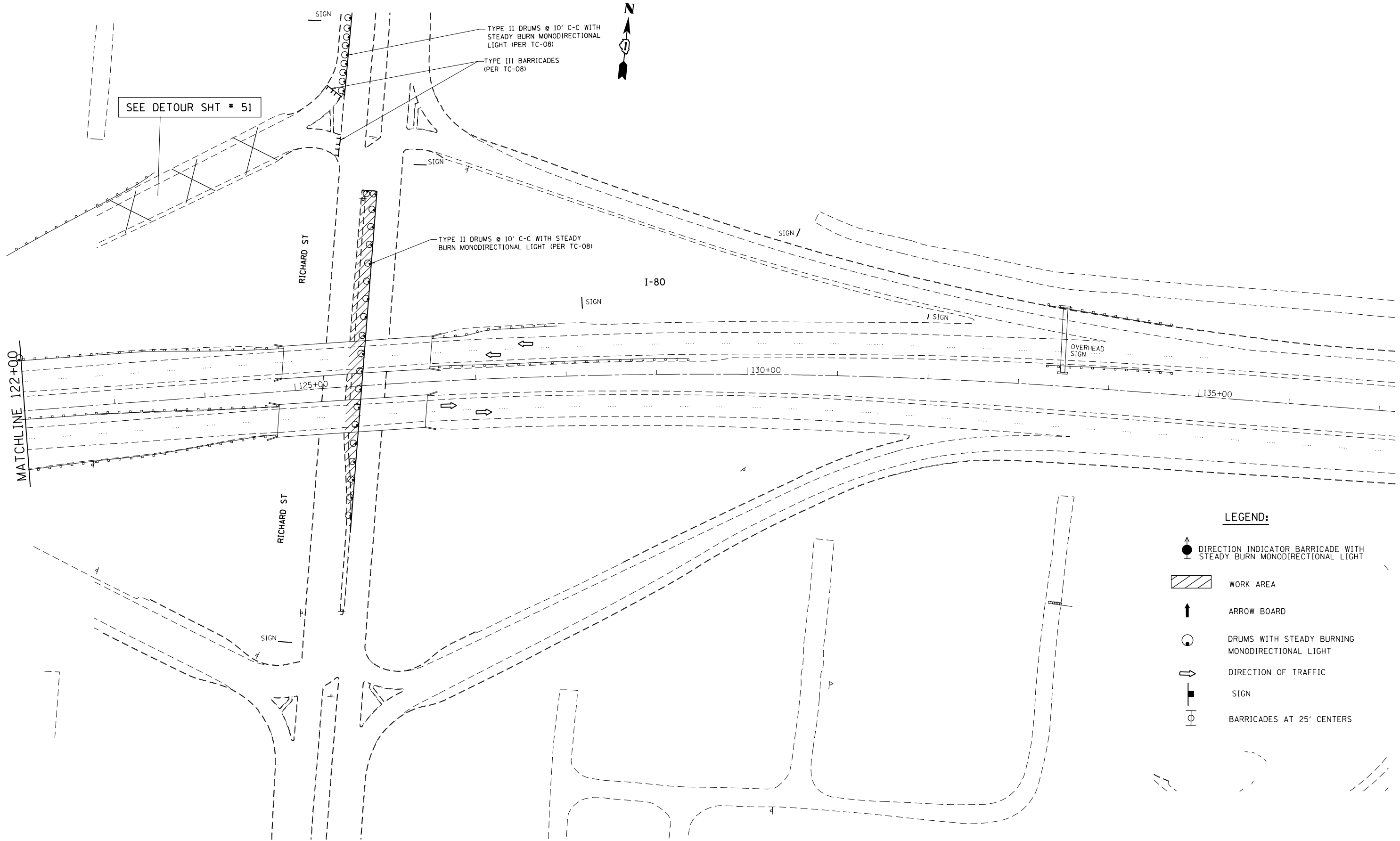
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**I-80 OVER DESPLAINES RIVER
TRAFFIC CONTROL PLAN FOR PERMANENT
LANE CLOSURE AND RAMP CLOSURES**

SCALE: 1"=50' SHEET OF SHEETS STA. 107+00 TO STA. 122+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-3-BR-2	WILL	57	47
CONTRACT NO. 60Y64				
ILLINOIS FED. AID PROJECT				










SEE DETOUR SHT # 51

TYPE II DRUMS @ 10' C-C WITH STEADY BURN MONODIRECTIONAL LIGHT (PER TC-08)
 TYPE III BARRICADES (PER TC-08)

TYPE II DRUMS @ 10' C-C WITH STEADY BURN MONODIRECTIONAL LIGHT (PER TC-08)

OVERHEAD SIGN

LEGEND:

-  DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
-  WORK AREA
-  ARROW BOARD
-  DRUMS WITH STEADY BURNING MONODIRECTIONAL LIGHT
-  DIRECTION OF TRAFFIC
-  SIGN
-  BARRICADES AT 25' CENTERS

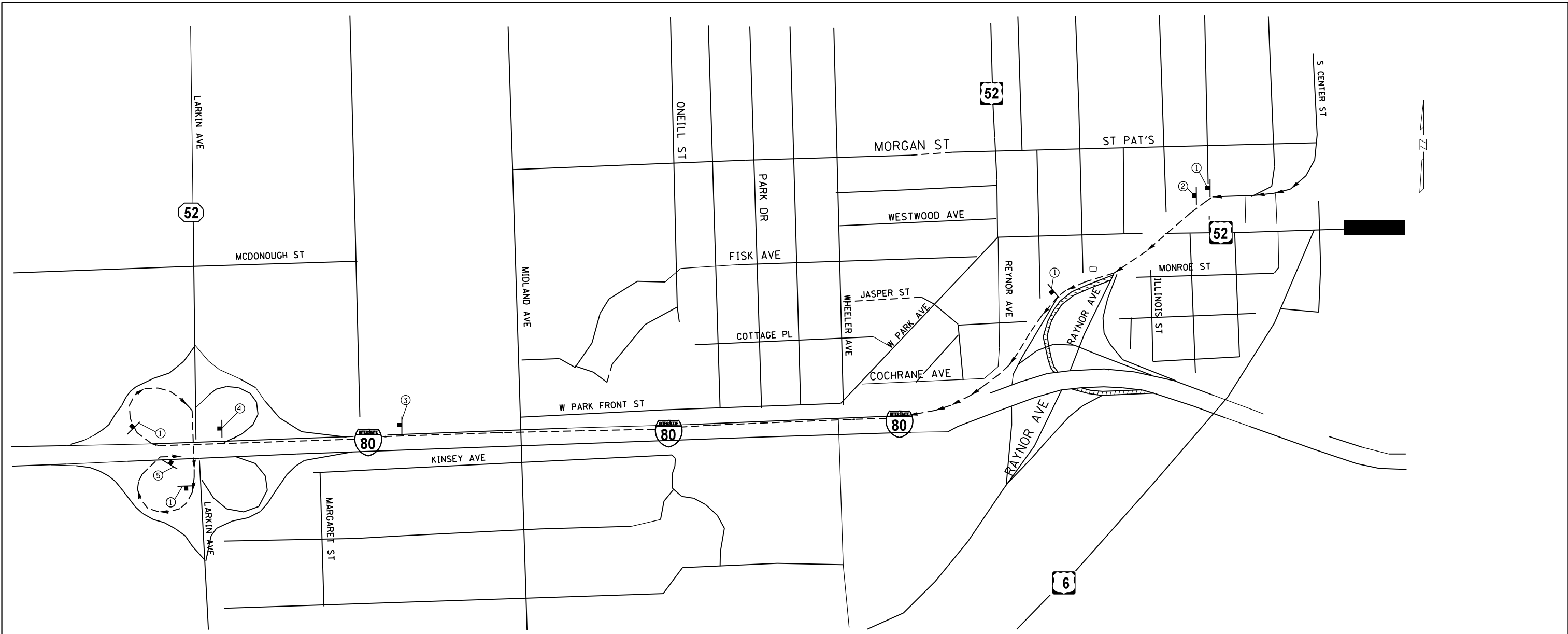
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Default	PLOT DATE = 9/9/2014	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

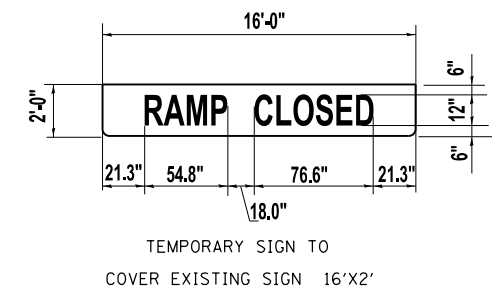
**I-80 OVER DESPLAINES RIVER
 TRAFFIC CONTROL PLAN FOR PERMANENT
 LANE CLOSURE AND RAMP CLOSURES**

SCALE: 1"=50' SHEET OF SHEETS STA. 122+00 TO STA. 137+00

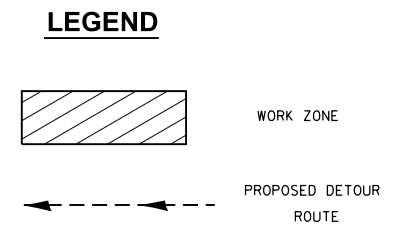
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-3-BR-2	WILL	57	48
				CONTRACT NO. 60Y64
ILLINOIS FED. AID PROJECT				

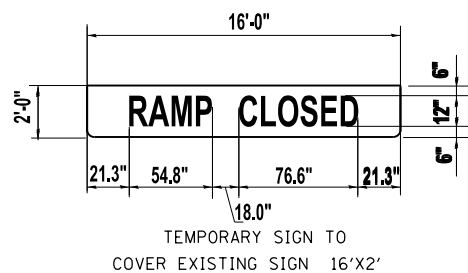
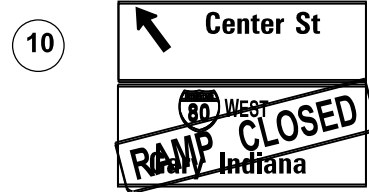
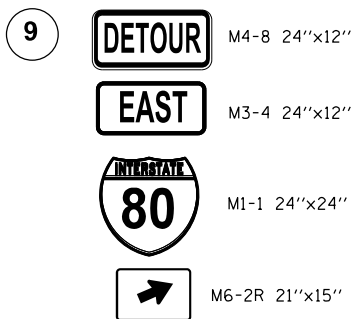
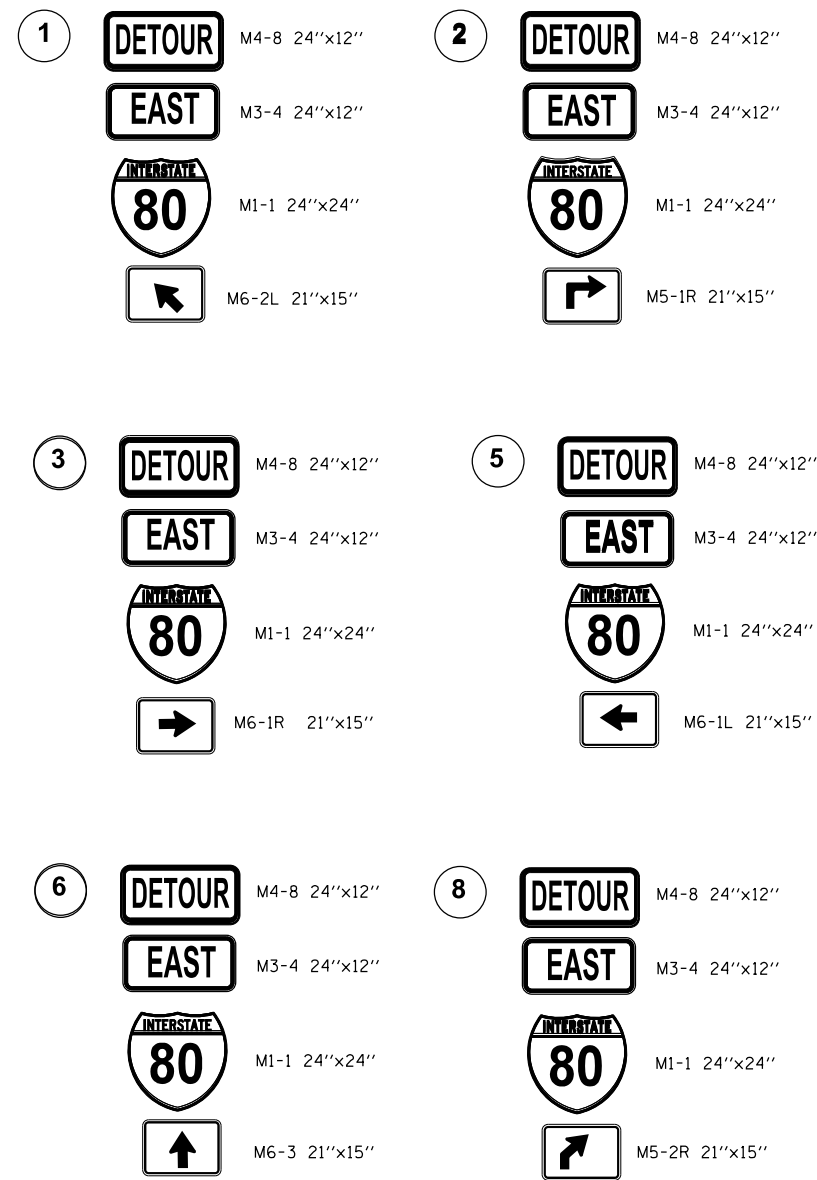
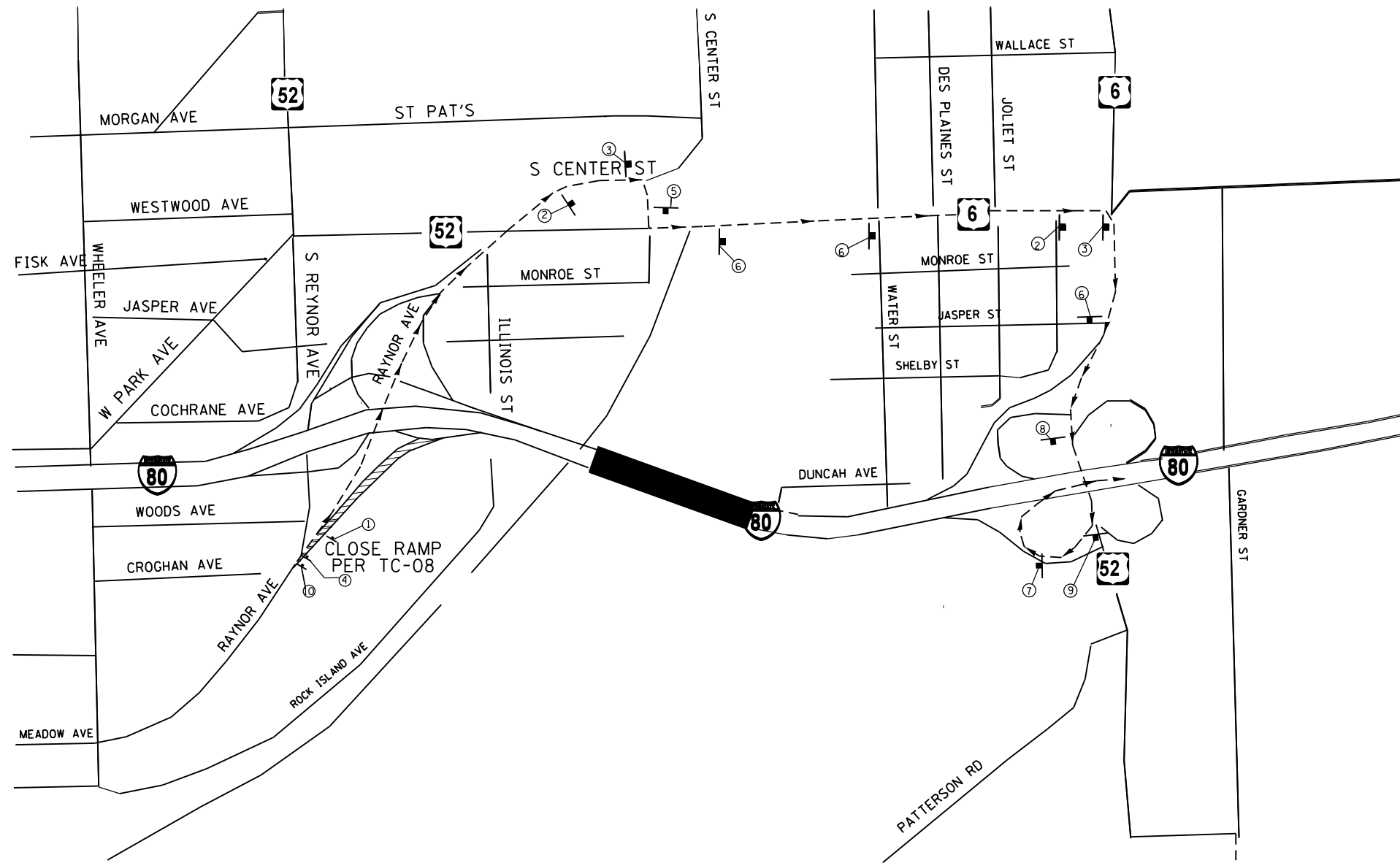


1	 	2		3	 	4	
		5					

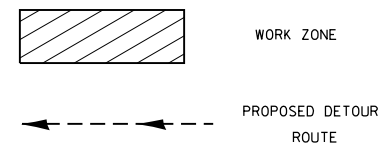


- NOTE:**
1. IDOT FORM OPER 2410 SHOULD BE FILLED OUT BY THE ENGINEER A MINIMUM OF 3 WEEKS PRIOR TO THE RAMP CLOSURE FOR DETOUR ROUTES ASSOCIATED WITH IDOT ROUTES. THIS FORM SHOULD BE SUBMITTED TO CORY JUICIUS AT IDOT DISTRICT 1 FOR REVIEW.
 2. THE TEMPORARY DETOUR IS INCLUDED IN THE CONTRACT UNIT PRICE LUMP SUM FOR "TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)".





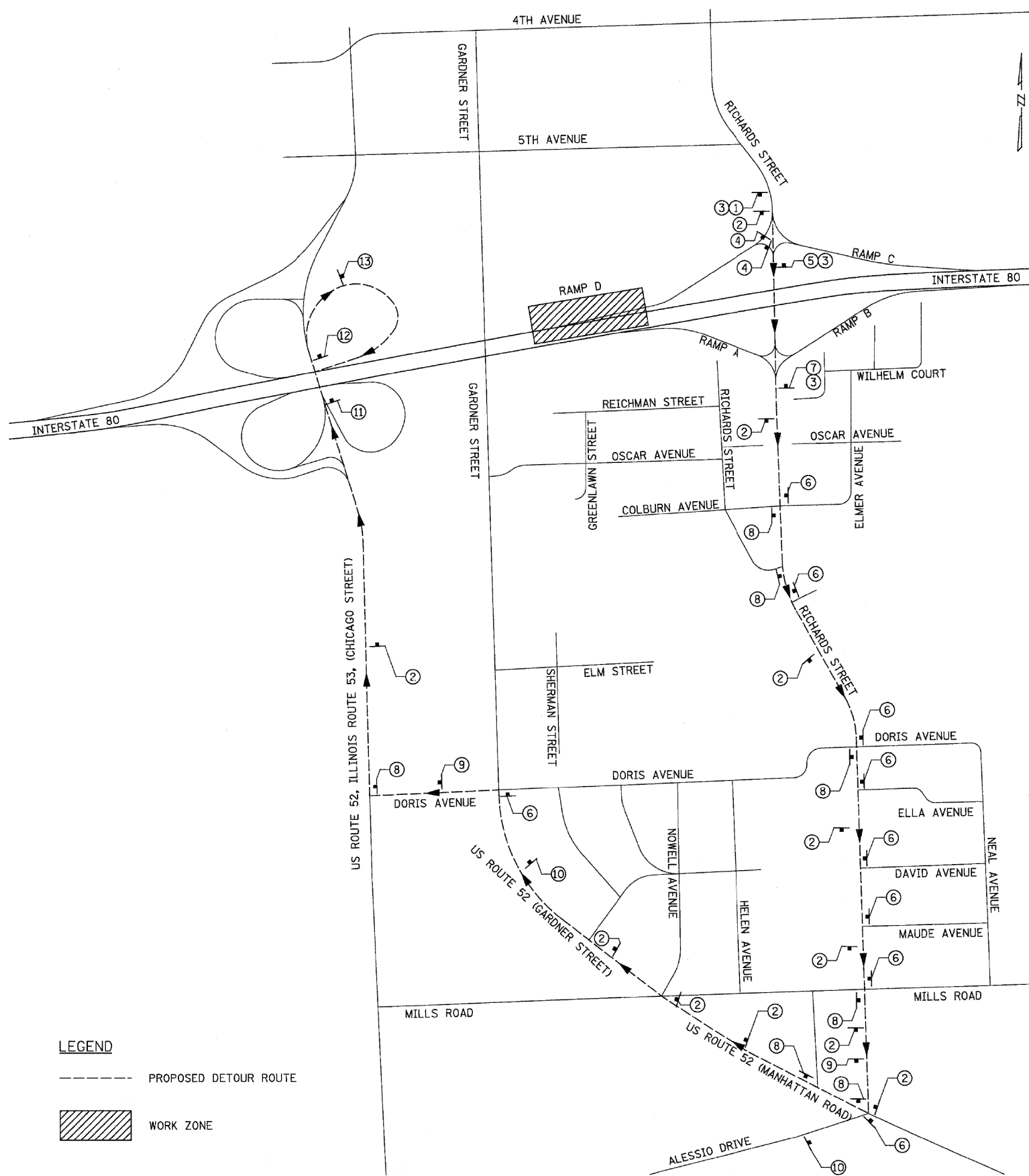
LEGEND



NOTE:

1. IDOT FORM OPER 2410 SHOULD BE FILLED OUT BY THE ENGINEER A MINIMUM OF 3 WEEKS PRIOR TO THE RAMP CLOSURE FOR DETOUR ROUTES ASSOCIATED WITH IDOT ROUTES. THIS FORM SHOULD BE SUBMITTED TO CORY JUICIUS AT IDOT DISTRICT 1 FOR REVIEW.
2. THE TEMPORARY DETOUR IS INCLUDED IN THE CONTRACT UNIT PRICE LUMP SUM FOR "TRAFFIC CONTROL AND PROTECTION (SPECIAL)".

FILE NAME =	USER NAME = Gorengautab	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETOUR PLAN I-80 EB ENTRANCE RAMP AT RAYNOR AVE			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.				
Default	0144514-sh1-stage1.dgn	DRAWN -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.	80	99-3-BR-2	WILL	57	50
	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -		CONTRACT NO. 60Y64											
	PLOT DATE = 9/9/2014	DATE -	REVISED -		ILLINOIS FED. AID PROJECT											



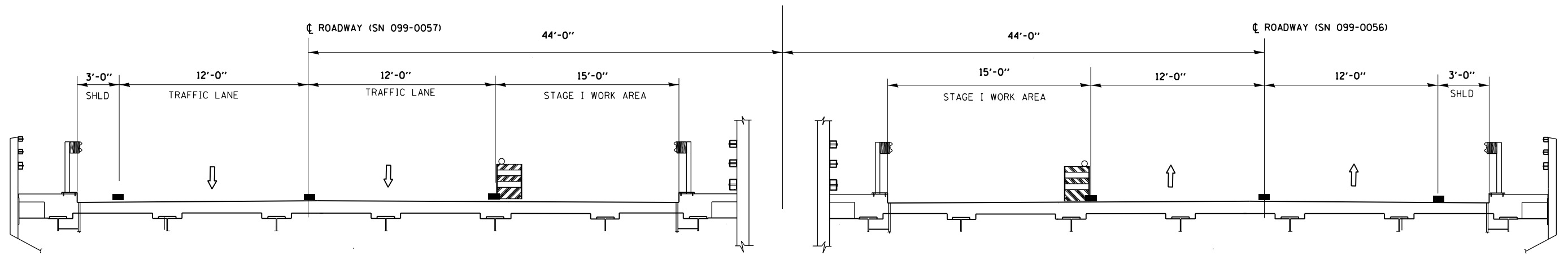
LEGEND
 - - - - - PROPOSED DETOUR ROUTE
 [Hatched Box] WORK ZONE

SIGN LEGEND

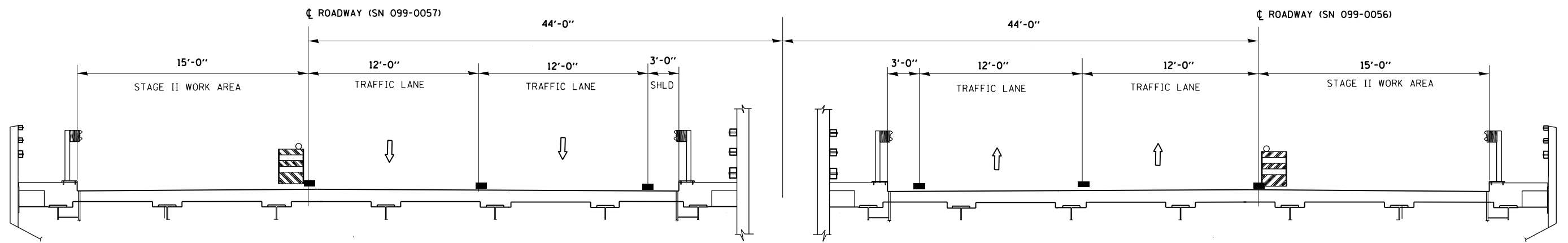
- ① EXISTING SIGN TO BE COVERED
- ② M4-8 24"X12"
 M3-4 24"X12"
 M1-1 24"X 24"
 M6-3 21"X15"
- ③ TEMPORARY SIGN TO COVER EXISTING SIGN 16'X2'
- ④ (48"X30") MOUNTED ON TYPE III BARRICADE
- ⑤ EXISTING SIGN TO BE COVERED
- ⑥ M4-8 24"X12"
 M3-4 24"X12"
 M1-1 24"X 24"
 M6-1L 21"X15"
- ⑦ EXISTING SIGN TO BE COVERED
- ⑧ M4-8 24"X12"
 M3-4 24"X12"
 M1-1 24"X 24"
 M6-1R 21"X15"
- ⑨ M4-8 24"X12"
 M3-4 24"X12"
 M1-1 24"X 24"
 M5-1R 21"X15"
- ⑩ M4-8 24"X12"
 M3-4 24"X12"
 M1-1 24"X 24"
 M5-1L 21"X15"
- ⑪ M4-8 24"X12"
 M3-4 24"X12"
 M1-1 24"X 24"
 M5-2R 21"X15"
- ⑫ M4-8 24"X12"
 M3-4 24"X12"
 M1-1 24"X 24"
 M6-2R 21"X15"
- ⑬ M4-8A 48"X30"

NOTE:

1. IDOT FORM OPER 2410 SHOULD BE FILLED OUT BY THE ENGINEER A MINIMUM OF 3 WEEKS PRIOR TO THE RAMP CLOSURE FOR DETOUR ROUTES ASSOCIATED WITH IDOT ROUTES. THIS FORM SHOULD BE SUBMITTED TO CORY JUCIUS AT IDOT DISTRICT 1 FOR REVIEW.
2. THE RIGHT AND LEFT TURN LANES ACCESSING RAMP D SHALL BE CLOSED TO TRAFFIC DURING THE TIME OF THE RAMP D CLOSURE.
3. THE TEMPORARY DETOUR IS INCLUDED IN THE CONTRACT UNIT PRICE LUMP SUM FOR "TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)."

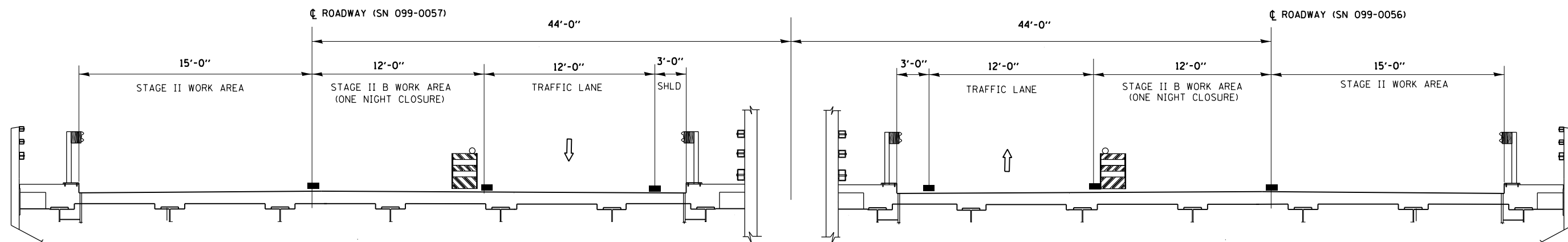


STAGE I CONSTRUCTION

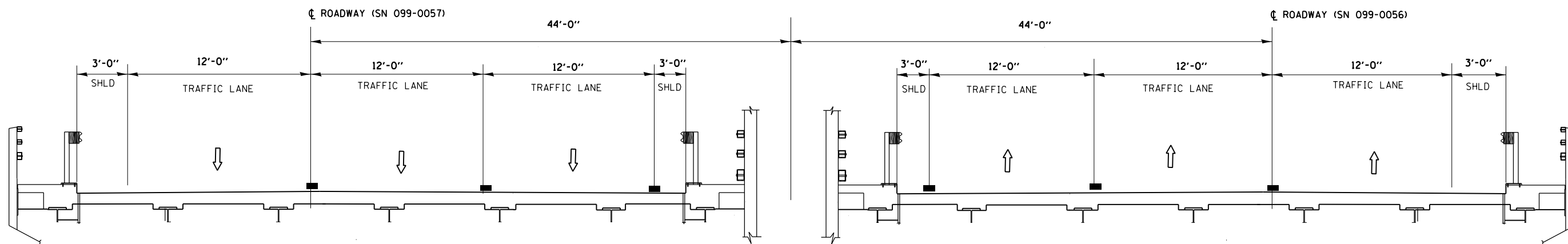


STAGE II CONSTRUCTION

FILE NAME = c:\pwork\work\pwork\gorengautab\d0404850\0144514-sh1-stage1.dgn	USER NAME = Gorengautab	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	I-80 OVER DESPLAINES RIVER TRAFFIC STAGING PLAN			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -					80	99-3-BR-2	WILL	57	52
Default	PLOT DATE = 9/8/2014	DATE -	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.			CONTRACT NO. 60Y64				
							ILLINOIS FED. AID PROJECT					

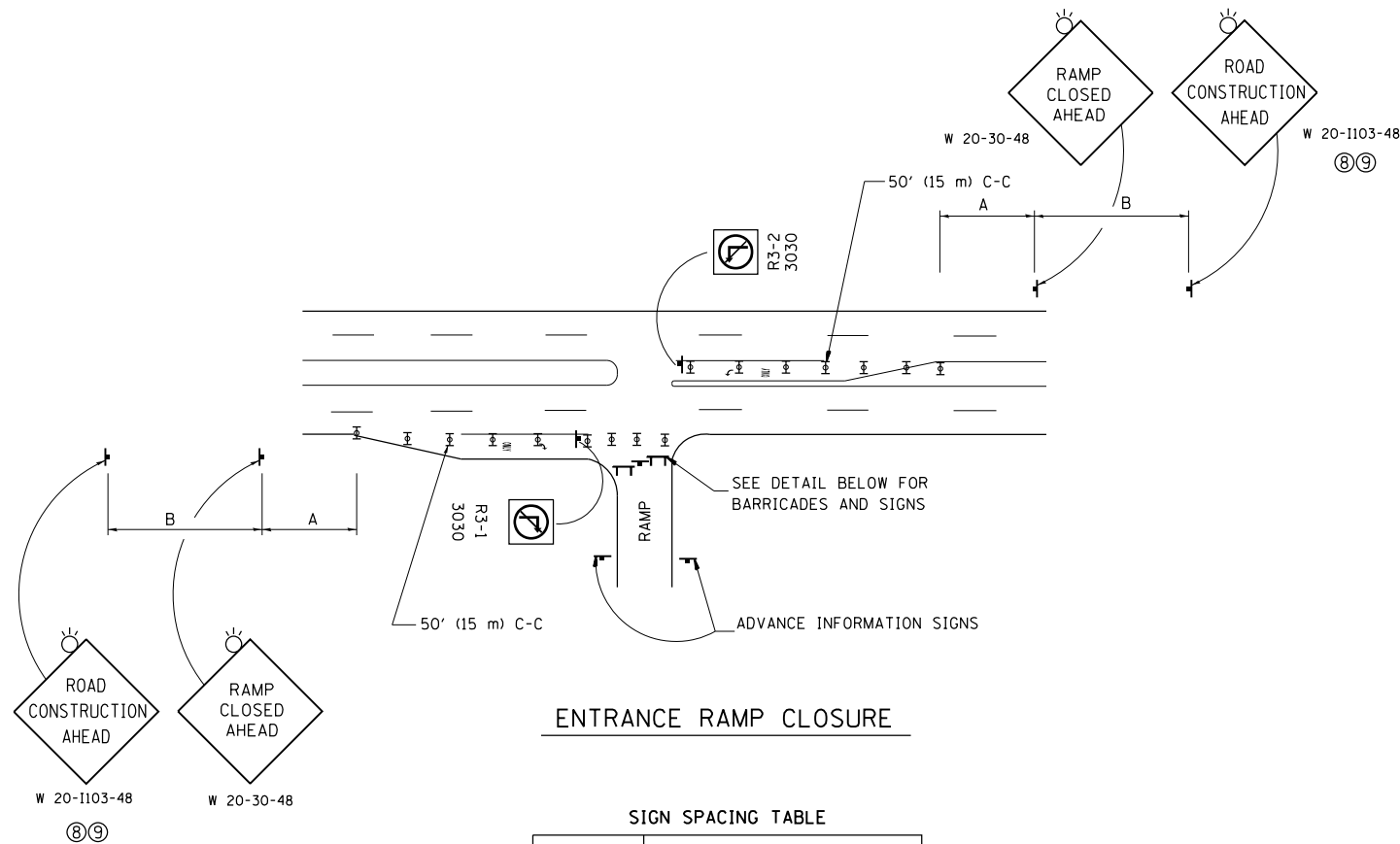


NIGHTTIME TRAFFIC CONTROL WITH LANE 2 & 3 CLOSED



FINAL

FILE NAME = c:\pwork\pwork\gorengautab\d0404850\0144514-sh1-stage1.dgn	USER NAME = Gorengautab	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	I-80 OVER DESPLAINES RIVER TRAFFIC STAGING PLAN			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 100.0000' / in.	DRAWN -	REVISED -					80	99-3-BR-2	WILL	57	53
Default	PLOT DATE = 9/8/2014	CHECKED -	REVISED -	SCALE: SHEET OF SHEETS STA. TO STA.			CONTRACT NO. 60Y64 ILLINOIS FED. AID PROJECT					

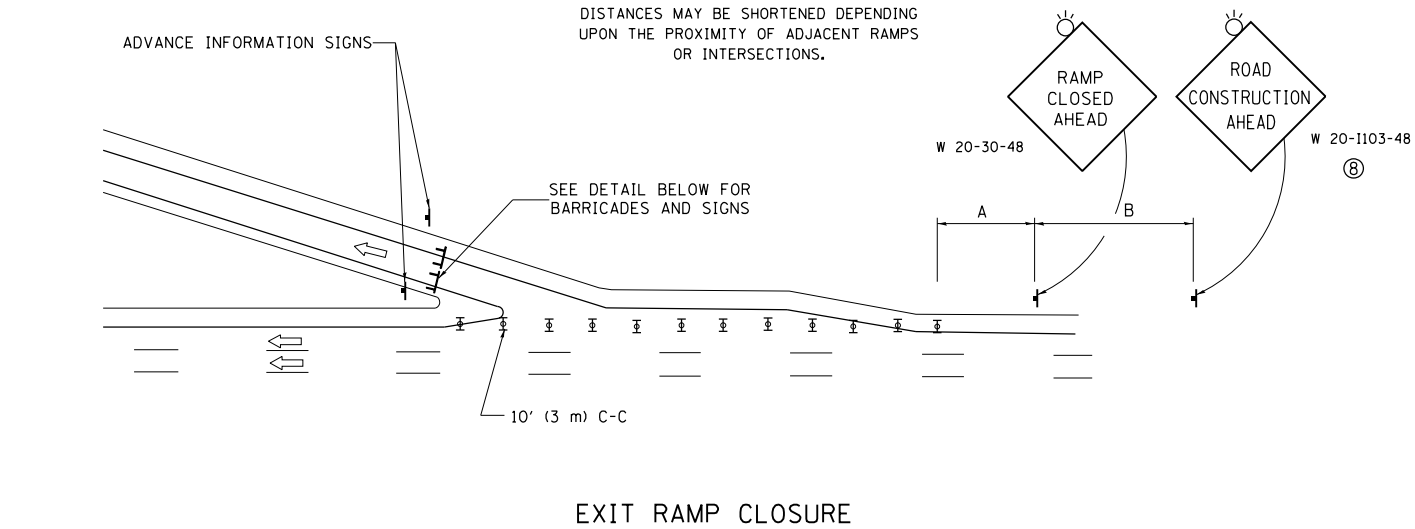


ENTRANCE RAMP CLOSURE

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)

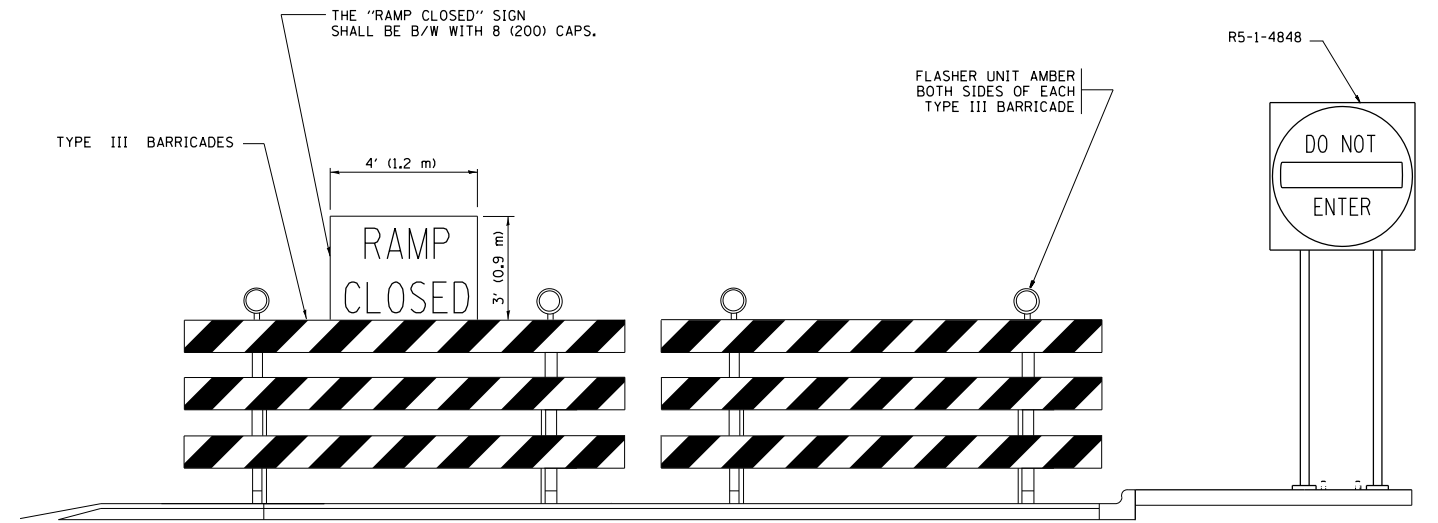
DISTANCES MAY BE SHORTENED DEPENDING UPON THE PROXIMITY OF ADJACENT RAMPS OR INTERSECTIONS.



EXIT RAMP CLOSURE

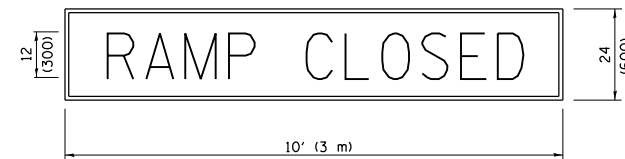
SYMBOLS

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



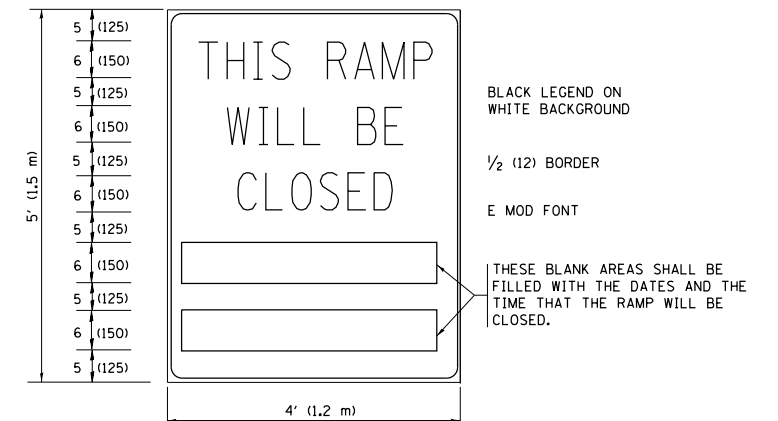
DETAIL FOR REQUIRED BARRICADES & SIGNS

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



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 = Gorengautab	DESIGNED - DWS	REVISED - JAF 02-06
et:\pw\work\p\dot\gorengautab\d0404850\DistStd.dgn		DRAWN -	REVISED - SPB 01-07
	PLOT SCALE = 100.0000' / 1"	CHECKED -	REVISED - SPB 12-09
	PLOT DATE = 9/8/2014	DATE - 02-83	REVISED - MD 06-13

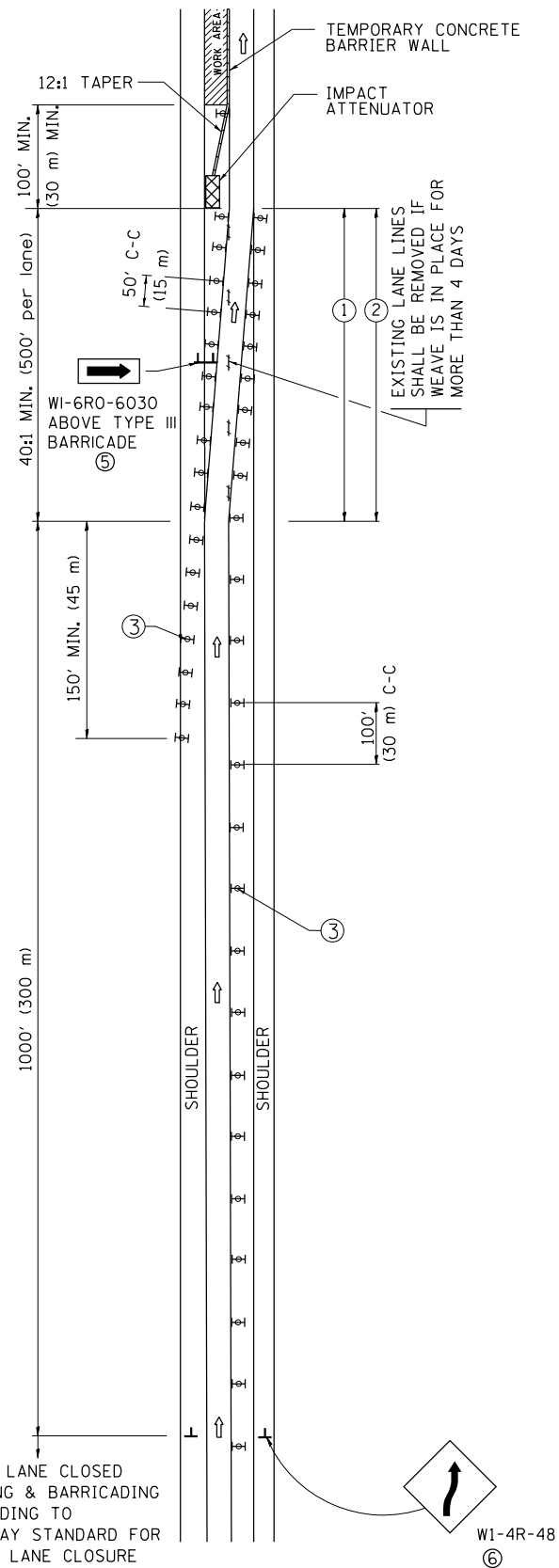
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ENTRANCE AND EXIT RAMP
CLOSURE DETAILS**

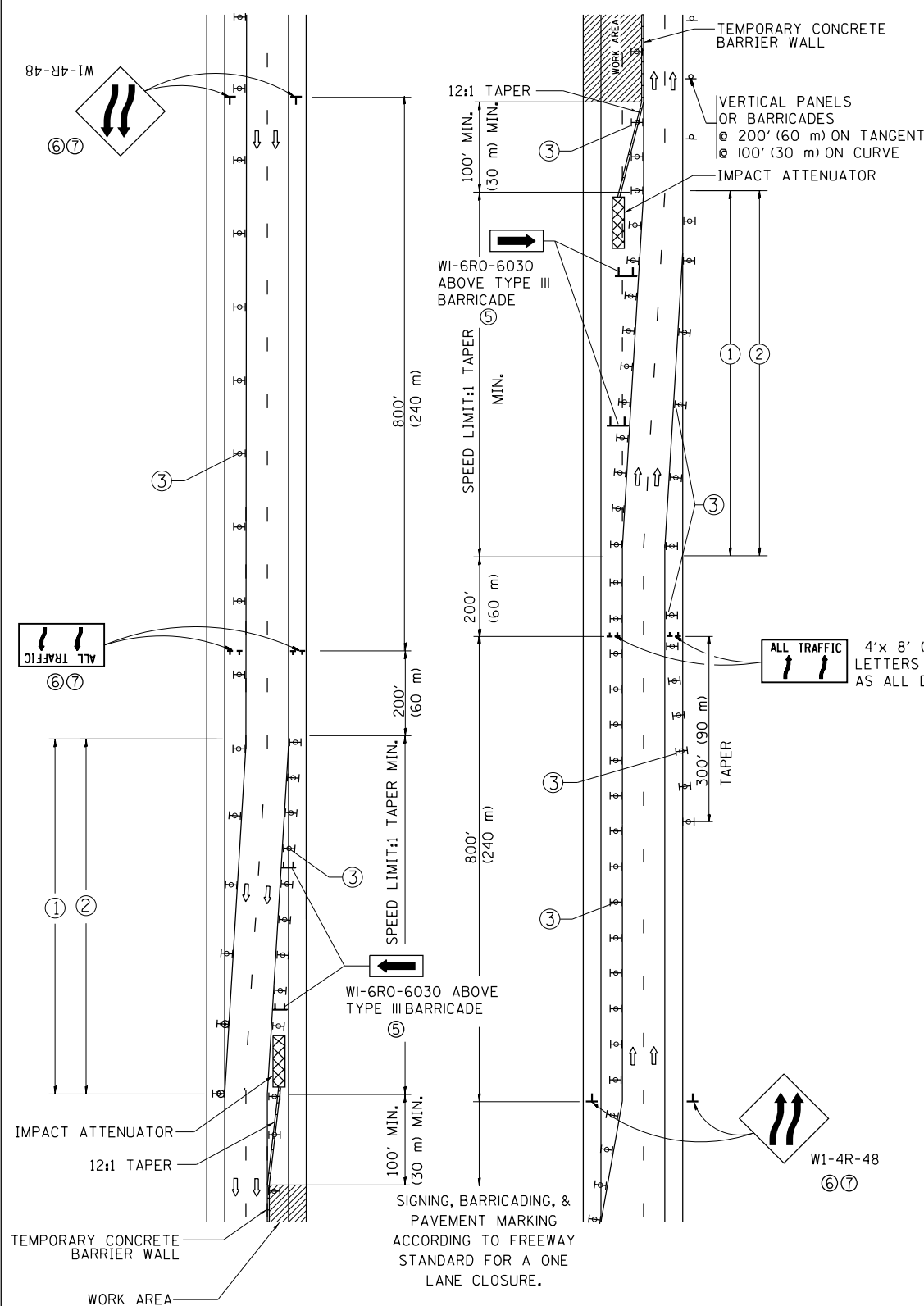
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-3-BR-2	WILL	57	54
TC-08			CONTRACT NO. 60Y64	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

SINGLE LANE WEAVE



MULTI-LANE WEAVE



GENERAL NOTES

- ① EXISTING CONFLICTING PAVEMENT MARKING LINES SHALL BE REMOVED. PAVEMENT MARKING REMOVAL SHALL NOT BE REQUIRED FOR SINGLE LANE WEAVES UNDER 4 DAYS IN DURATION.
- ② CONTINUOUS REFLECTIVE TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER AND FOR 300' (90 m) ALONG SIDE THE WORK AREA WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS. THE LEFT EDGE LINE SHALL BE YELLOW AND THE RIGHT EDGE LINE SHALL BE WHITE. FOR MULTI-LANE WEAVES LANE LINES SHALL BE 5 INCH, 10'-30' (3 m-9 m) SKIP DASH, WHITE.
- ③ PLASTIC DRUMS WITH STEADY BURN LIGHTS AT 50' (15 m) C-C SPACING IN TAPERS AND 100' (30 m) C-C SPACING IN TANGENTS.
- ④ ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
- ⑤ 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.
- ⑥ 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.
- ⑦ THE NUMBER OF ARROWS ON THESE SIGNS SHALL MATCH THE NUMBER OF LANES OPEN TO TRAFFIC.

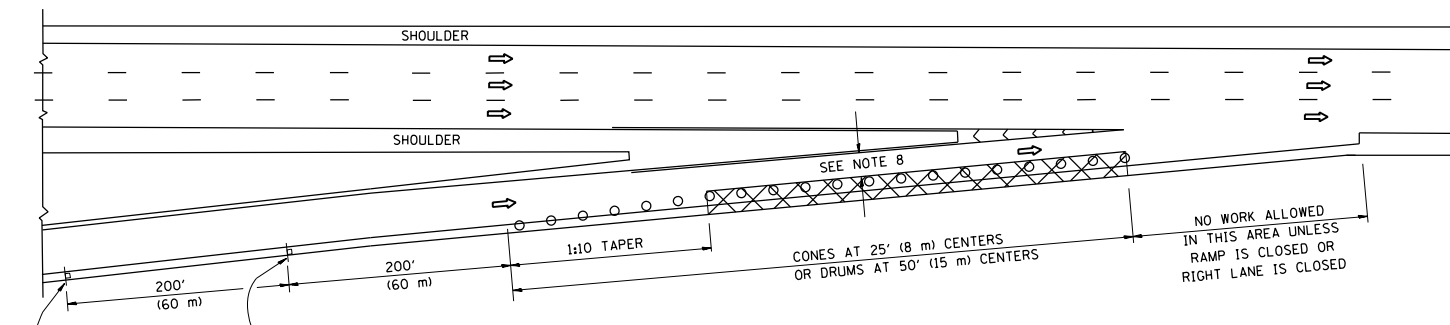
SYMBOLS

- 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)
- W24-1-48 (7)

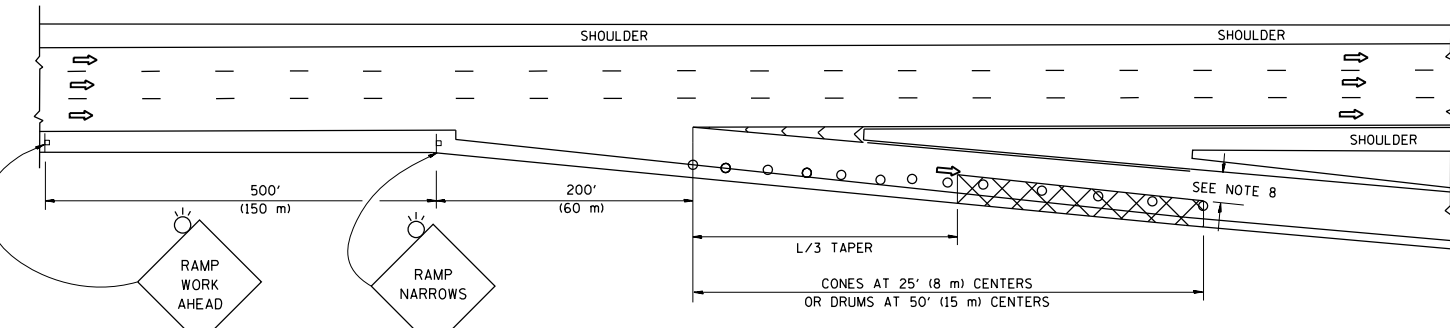
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

FILE NAME =	USER NAME = Gorengautab	DESIGNED - DWS	REVISED - JAF 02-06	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL DETAILS FOR FREEWAY SINGLE & MULTI-LANE WEAVE			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
et:\pw\work\p\idot\gorengautab\d0404850\DistStd.dgn		DRAWN -	REVISED - SPB 01-07					80	99-3-BR-2	WILL	57	55
PLOT SCALE = 100.0000' / 1"		CHECKED -	REVISED - SPB 12-09		TC-09			CONTRACT NO. 60Y64				
PLOT DATE = 9/8/2014		DATE - 02-87	REVISED - MD 06-13		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

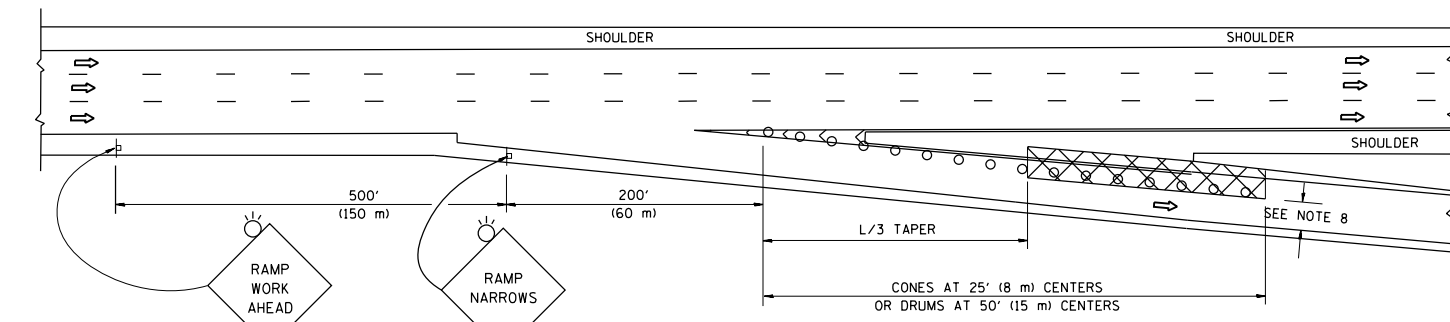
PARTIAL RAMP CLOSURE DETAILS



TYPICAL ENTRANCE RAMP



TYPICAL EXIT RAMP



TYPICAL EXIT RAMP

SYMBOLS

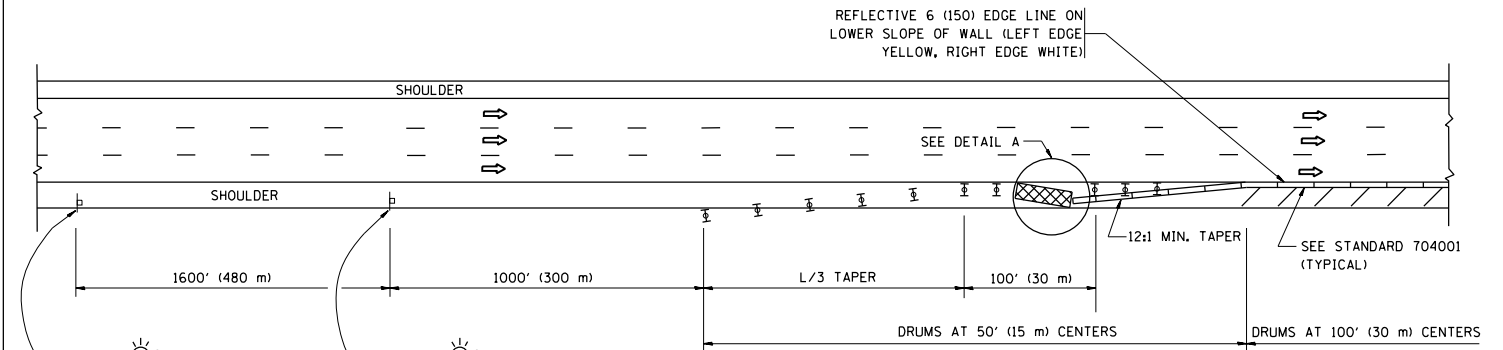
- ACTIVE WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- TYPE II BARRICADE OR DRUM WITH STEADY BURN MONO-DIRECTIONAL LIGHT
- CONE, DRUM OR BARRICADE
- IMPACT ATTENUATOR OF TYPE AND TEST LEVEL SPECIFIED

GENERAL NOTES

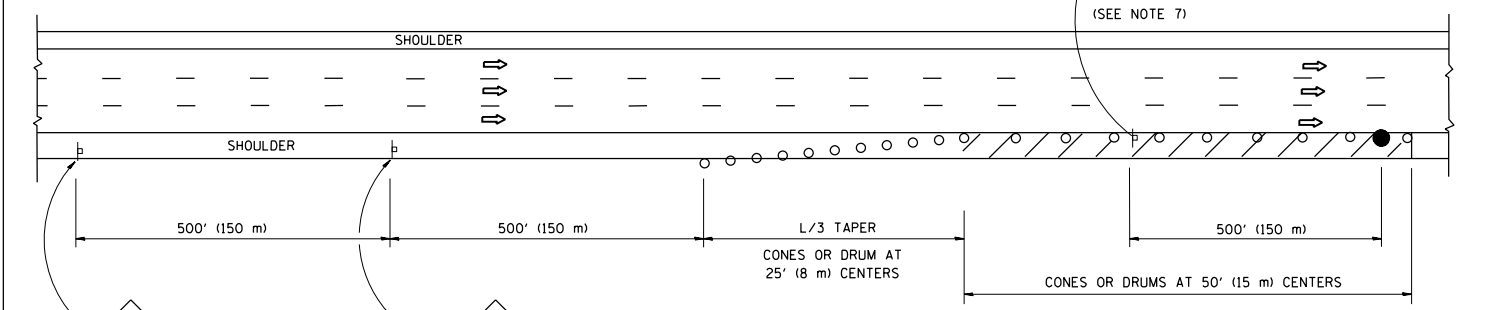
1. THE "L" DISTANCE EQUALS:

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

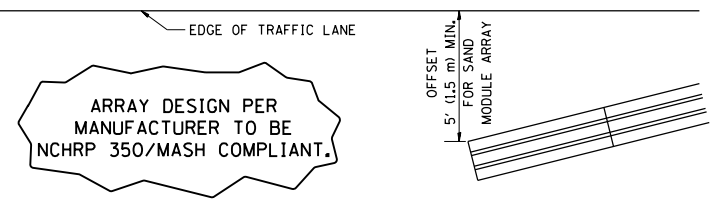


PERMANENT SHOULDER CLOSURE



DAYTIME SHOULDER CLOSURE

THIS DETAIL IS USED WHERE:
 1. VEHICLES, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCR OACH 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 ENCR OACHMENT 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.

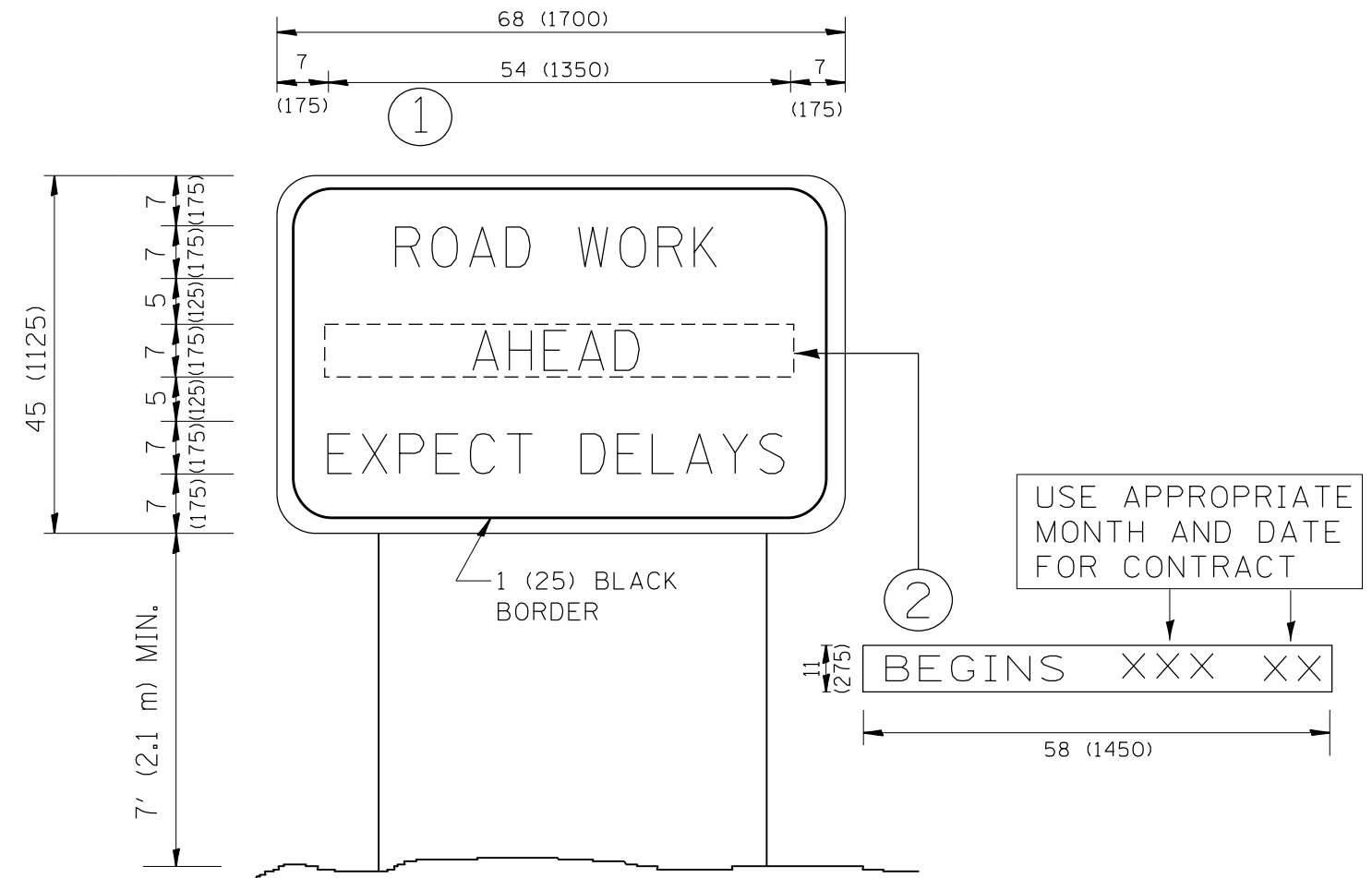
FILE NAME =	USER NAME = Gorengautab	DESIGNED -	REVISED - J.A.F. 12-06
et:\pw\work\p\id\dot\gorengautab\d0404850\DistStd.dgn	Drawn - D.W.S.	DRAWN -	REVISED - S.P.B. 01-07
PLOT SCALE = 100.0000' / 1in.	CHECKED -	CHECKED -	REVISED - S.P.B. 12-09
PLOT DATE = 9/8/2014	DATE - 11-96	DATE -	REVISED - M.D. 06-13

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.
80	99-3-BR-2	WILL	57	56
TC-17		CONTRACT NO. 60Y64		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



NOTES:

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

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

FILE NAME =	USER NAME = Gorengautab	DESIGNED -	REVISED - R. MIRS 09-15-97	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ARTERIAL ROAD INFORMATION SIGN	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
et:\pwork\pwork\gorengautab\d0404850\DistStd.dgn	DRAWN -	REVISED - R. MIRS 12-11-97	80			99-3-BR-2	WILL	57	57	
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED - T. RAMMACHER 02-02-99	TC-22			CONTRACT NO. 60Y64				
PLOT DATE = 9/8/2014	DATE -	REVISED - C. JUCIUS 01-31-07	SCALE: NONE			SHEET NO. 1 OF 1 SHEETS		STA. TO STA.		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT