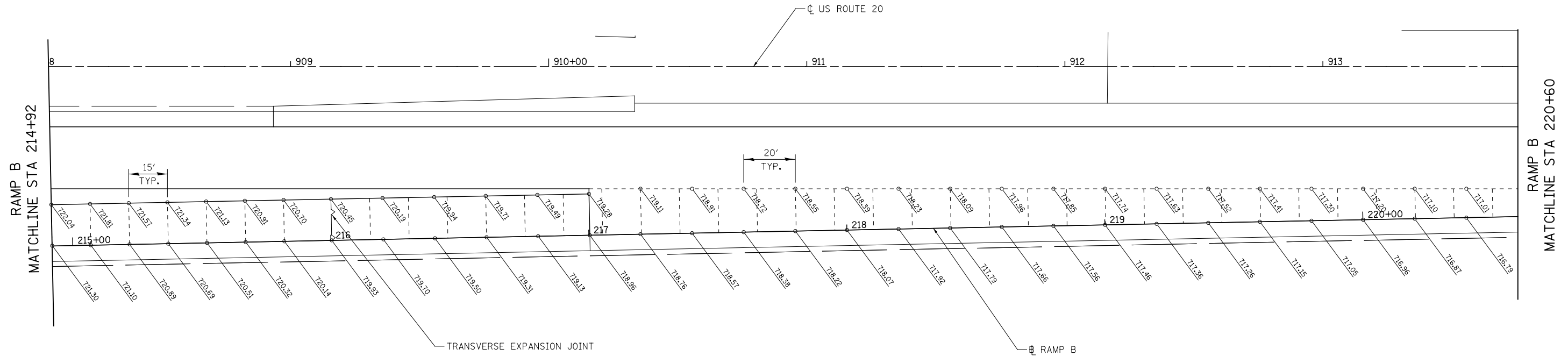
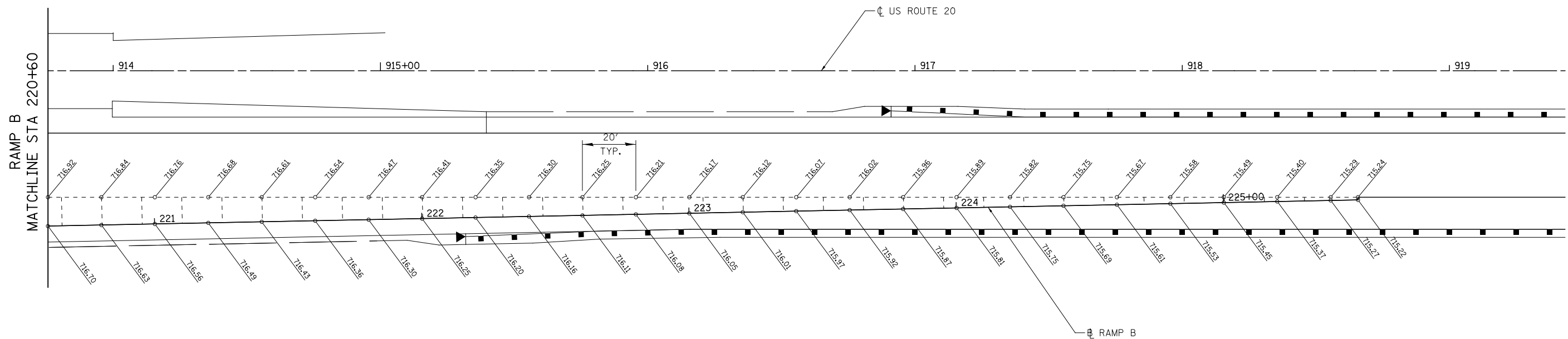


NOTES:

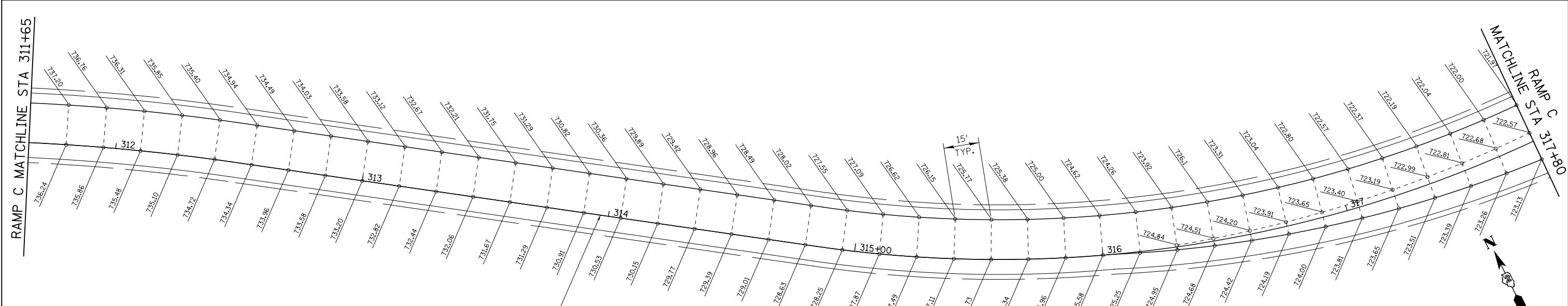
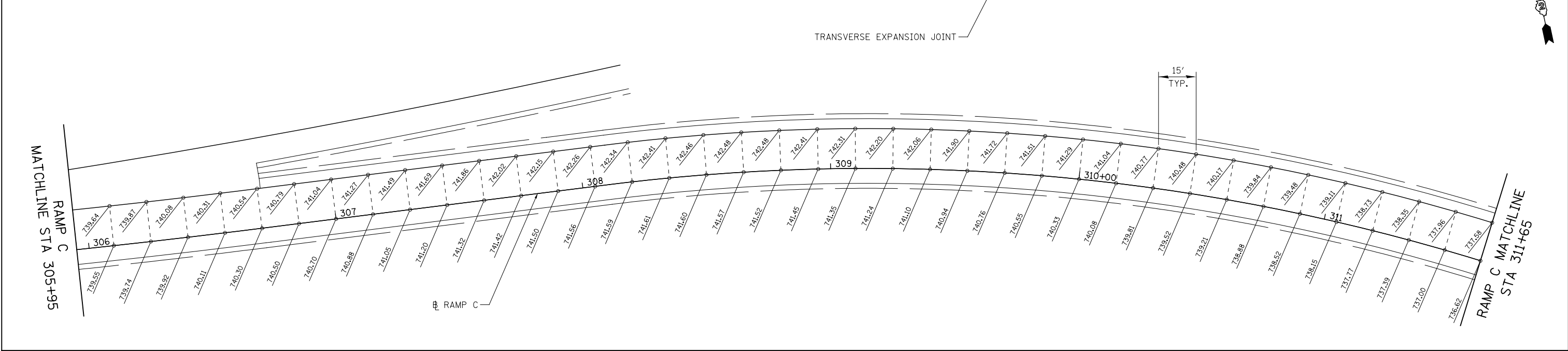
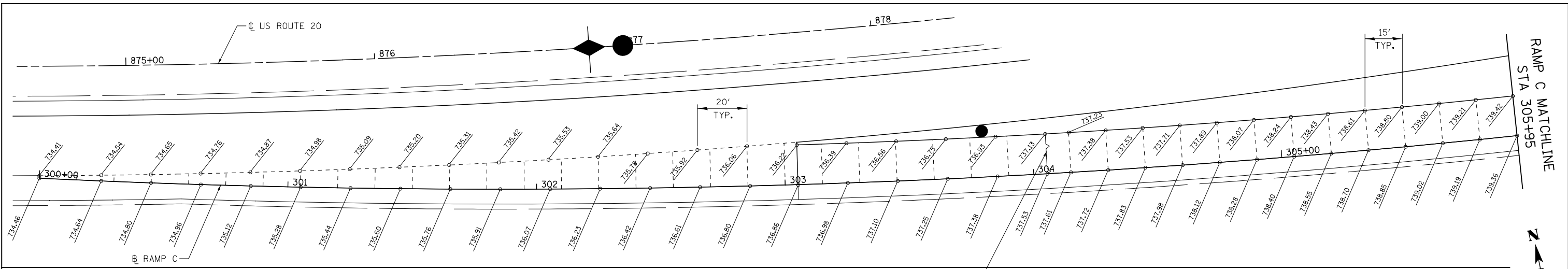
1. JOINTING PATTERN SHOWN IS FOR GRADING PURPOSES ONLY. THE CONTRACTOR SHALL FOLLOW IDOT HIGHWAY STANDARD 420101 FOR IL ROUTE 2 & RAMPS, HIGHWAY STANDARD 420201 & 420301 FOR RAMP CONNECTIONS TO US ROUTE 20.



RAMP B  
MATCHLINE STA 220+60



<b>KNIGHT</b> Engineers & Architects	USER NAME = dsiwo	DESIGNED - PMO	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT JOINTING AND ELEVATION PLAN RAMP B			F.A.P. RTE. = 301	SECTION = 3HBR	COUNTY = WINNEBAGO	TOTAL SHEETS = 689	SHEET NO. = 401
	PLOT SCALE = 1:40	CHECKED - DMS	REVISED -					1" = 20'	SHEET NO. OF SHEETS	STA. 214+92 TO STA. 225+50	CONTRACT NO. 64B87	
	PLOT DATE = 8/16/2018	DATE = 08/15/2018	REVISED -					FED. ROAD DIST. NO.   ILLINOIS FED. AID PROJECT				



NOTES:  
 1. JOINTING PATTERN SHOWN IS FOR GRADING PURPOSES ONLY. THE CONTRACTOR SHALL FOLLOW IDOT HIGHWAY STANDARD 420101 FOR IL ROUTE 2 & RAMPS, HIGHWAY STANDARD 420201 & 420301 FOR RAMP CONNECTIONS TO US ROUTE 20.



**KNIGHT**  
 Engineers & Architects

USER NAME = dsimo	DESIGNED - PMO	REVISED -
PLOT SCALE = 1:40	DRAWN - PMO	REVISED -
PLOT DATE = 8/16/2018	CHECKED - DMS	REVISED -
	DATE - 08/15/2018	REVISED -

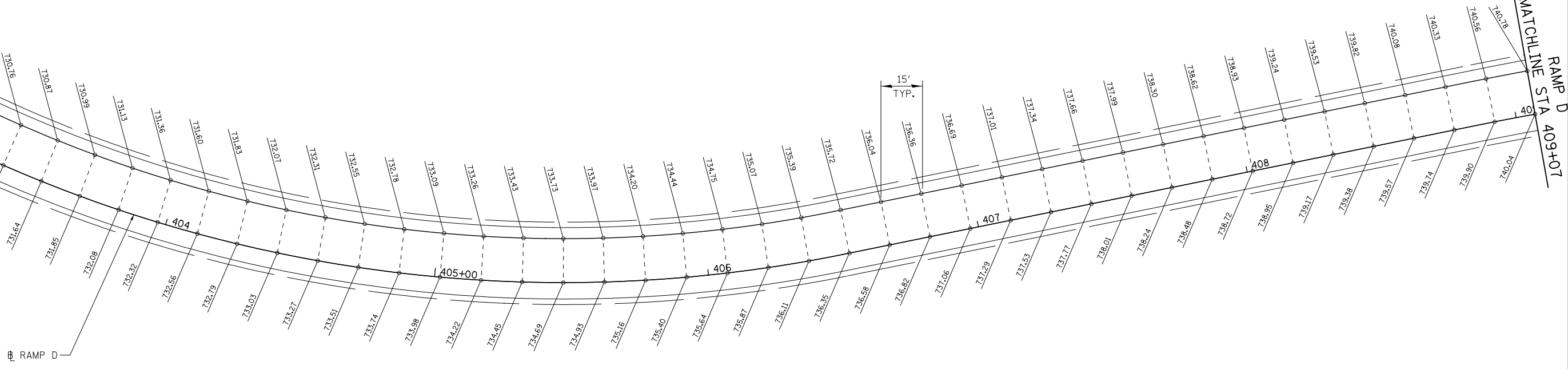
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

PAVEMENT JOINTING AND ELEVATION PLAN  
 RAMP C

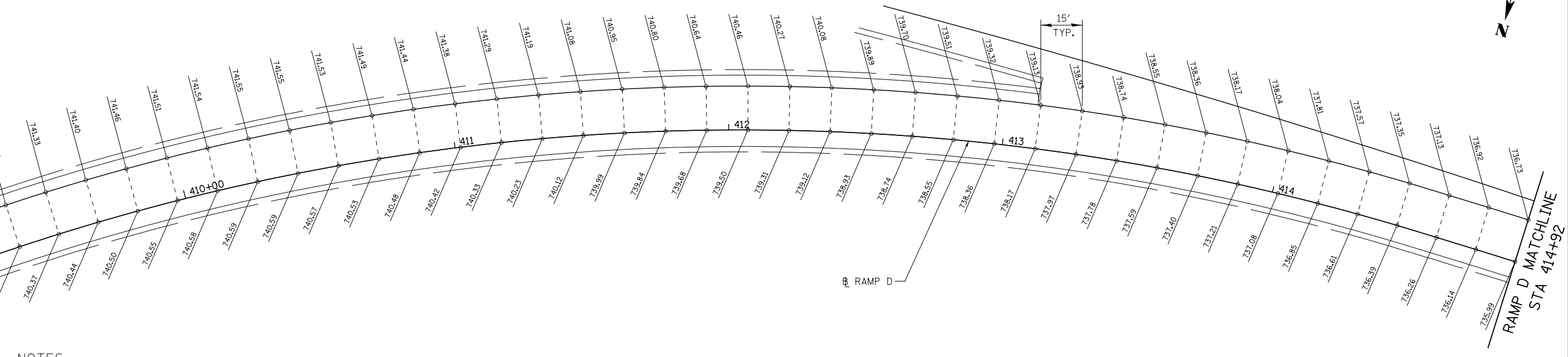
1" = 20' SHEET NO. OF SHEETS STA. 300+00 TO STA. 317+80

F.A.P. RTE. 301	SECTION 3HBR	COUNTY WINNEBAGO	TOTAL SHEETS 689	SHEET NO. 402
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
		CONTRACT NO. 64B87		

RAMP D  
MATCHLINE STA 402+92

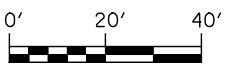


RAMP D  
MATCHLINE STA 409+07



**NOTES:**

- 1. JOINTING PATTERN SHOWN IS FOR GRADING PURPOSES ONLY. THE CONTRACTOR SHALL FOLLOW IDOT HIGHWAY STANDARD 420101 FOR IL ROUTE 2 & RAMPS, HIGHWAY STANDARD 420201 & 420301 FOR RAMP CONNECTIONS TO US ROUTE 20.



**KNIGHT**  
Engineers & Architects

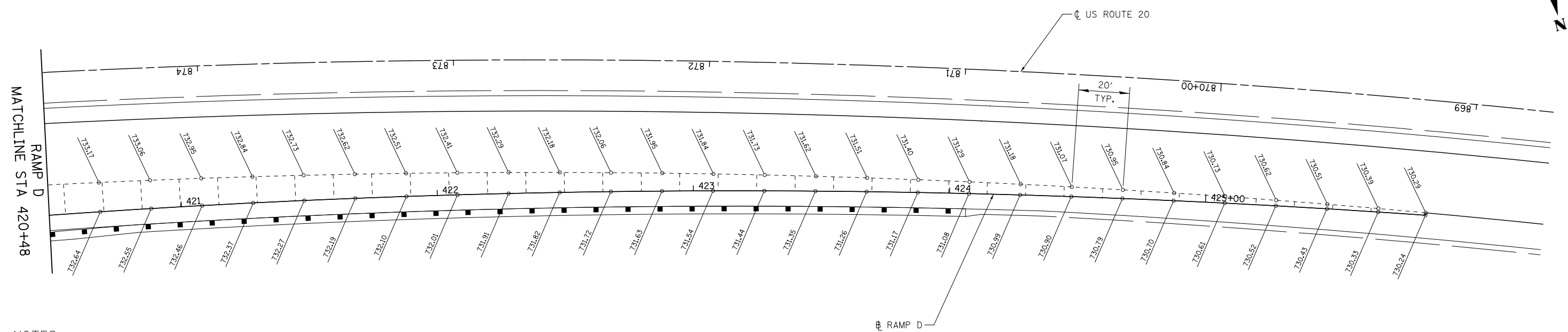
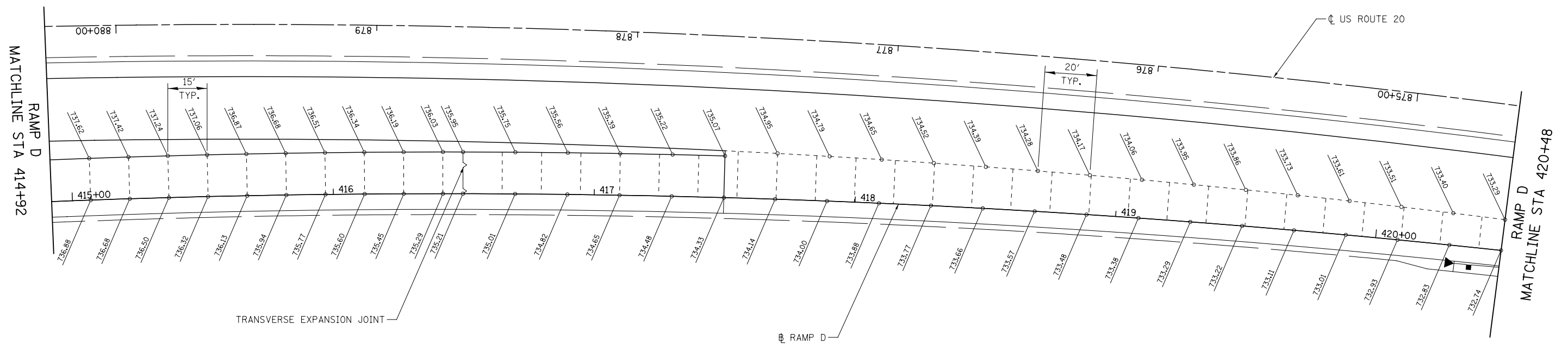
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PLOT DATE = 8/16/2018	CHECKED - DMS	REVISED -
	DATE - 08/15/2018	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 2  
INTERSECTION LAYOUT DETAILS**

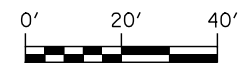
1" = 20' SHEET NO. OF SHEETS STA. 402+92 TO STA. 414+92

F.A.P. RTE. 301	SECTION 3HBR	COUNTY WINNEBAGO	TOTAL SHEETS 689	SHEET NO. 403
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



**NOTES:**

1. JOINTING PATTERN SHOWN IS FOR GRADING PURPOSES ONLY. THE CONTRACTOR SHALL FOLLOW IDOT HIGHWAY STANDARD 420101 FOR IL ROUTE 2 & RAMPS, HIGHWAY STANDARD 420201 & 420301 FOR RAMP CONNECTIONS TO US ROUTE 20.



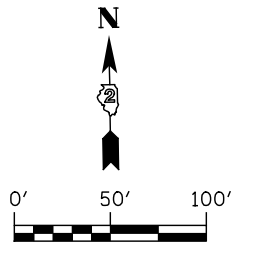
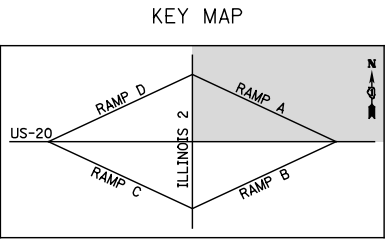
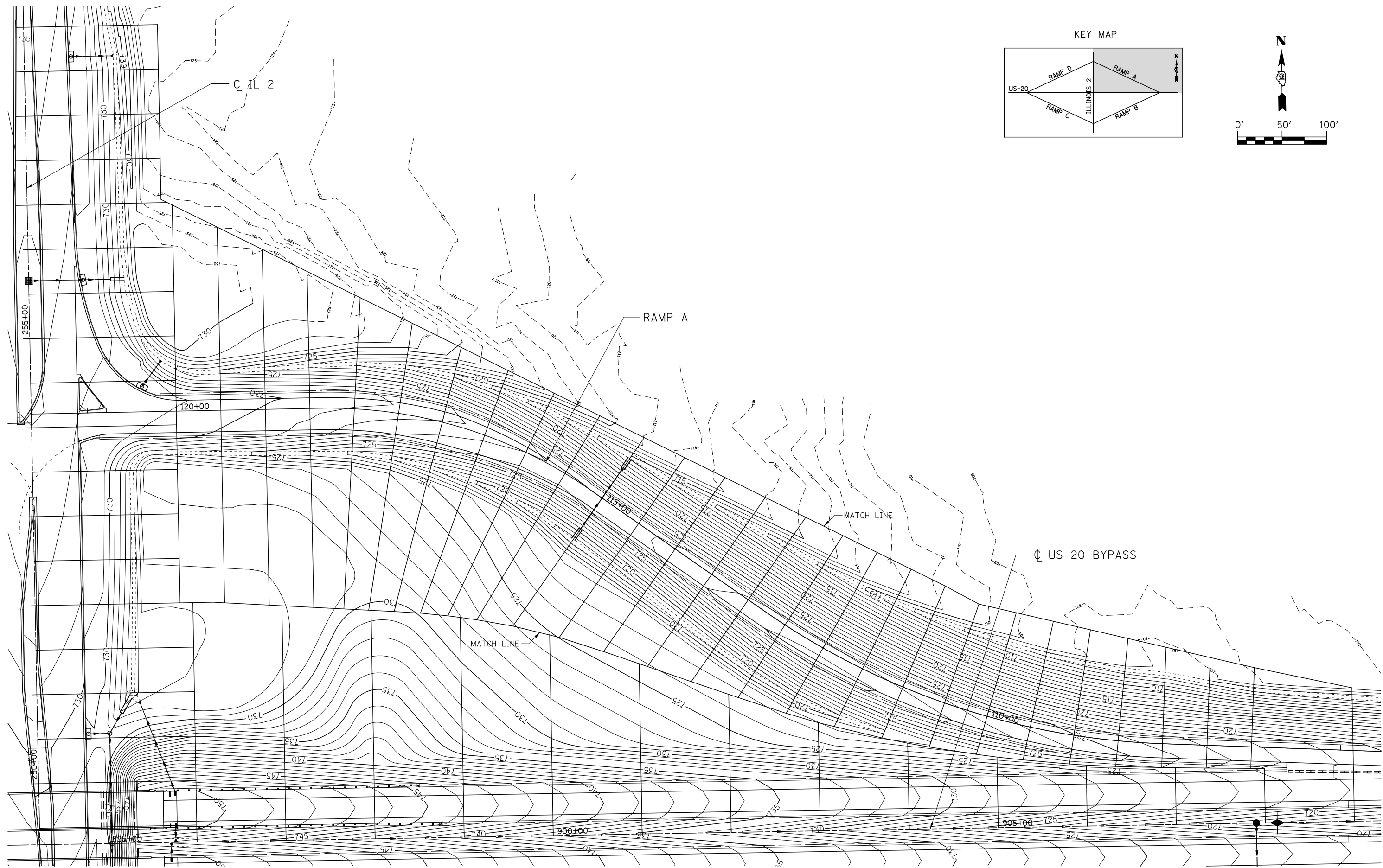
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PLOT DATE = 8/16/2018	CHECKED - DMS	REVISED -
	DATE - 08/15/2018	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT JOINTING AND ELEVATION PLAN  
RAMP D**

1" = 20' SHEET NO. OF SHEETS STA. 414+92 TO STA. 425+86

F.A.P. RTE. 301	SECTION 3HBR	COUNTY WINNEBAGO	TOTAL SHEETS 689	SHEET NO. 404
CONTRACT NO. 64B87				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



**KNIGHT**  
Engineers & Architects

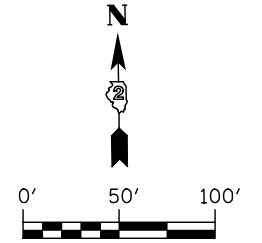
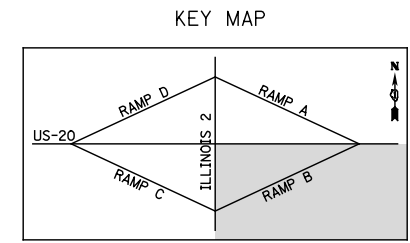
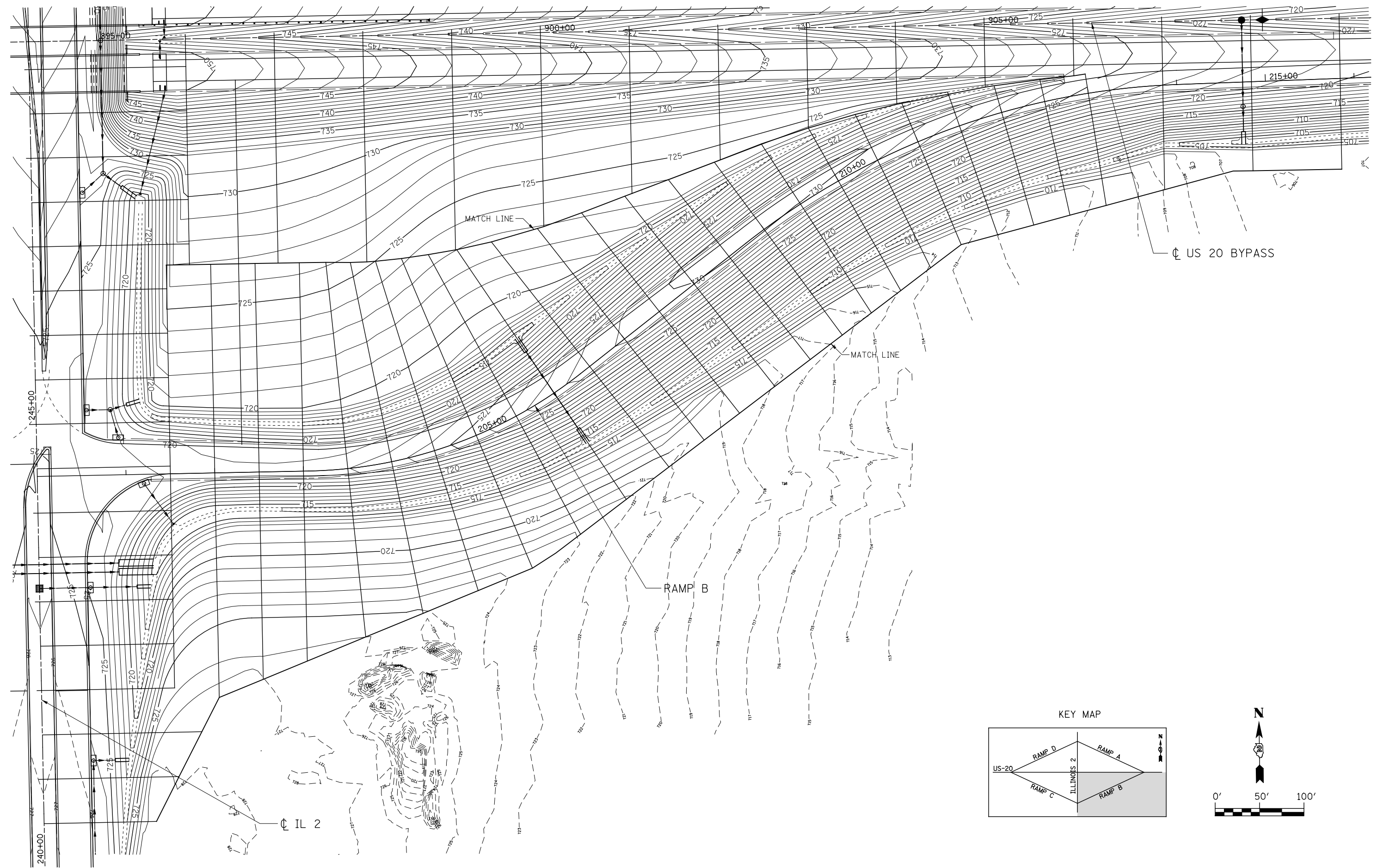
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 DESIGNED - PMO  
 DRAWN - PMO  
 CHECKED - DMS  
 DATE - 08-15-2018  
 PLOT SCALE = 1:100  
 PLOT DATE = 8/16/2018

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

**GRADING PLAN  
 RAMP A**  
 SCALE: 1"=50'  
 SHEET NO. OF SHEETS STA. 850+25.00 TO STA. 860+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
742	3HBR	WINNEBAGO	689	405
CONTRACT NO. 64B87				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



**KNIGHT**  
Engineers & Architects

USER NAME = dsirwo  
PLOT SCALE = 1:100  
PLOT DATE = 8/16/2018

DESIGNED - PMO  
DRAWN - PMO  
CHECKED - DMS  
DATE - 08-15-2018

REVISED -  
REVISED -  
REVISED -  
REVISED -

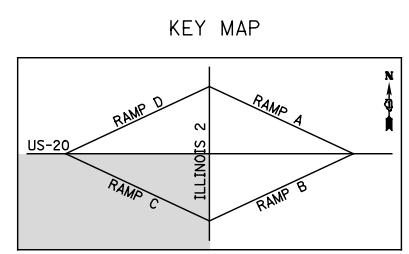
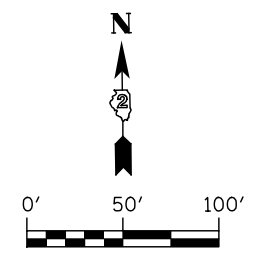
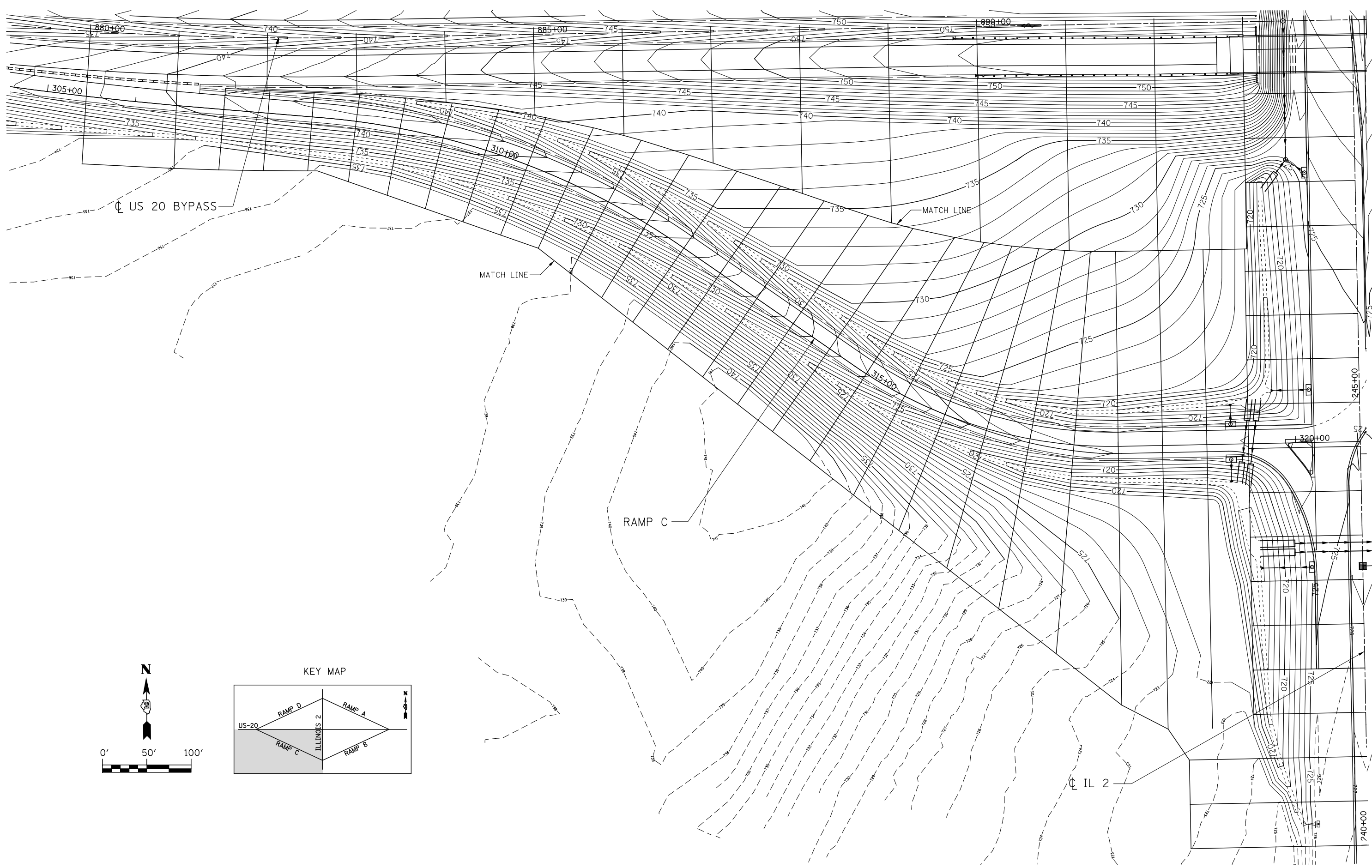
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**GRADING PLAN  
RAMP B**

SCALE: 1"=50' SHEET NO. OF SHEETS STA. 850+25.00 TO STA. 860+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
742	3HBR	WINNEBAGO	689	406
CONTRACT NO. 64B87				

FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT



**KNIGHT**  
Engineers & Architects

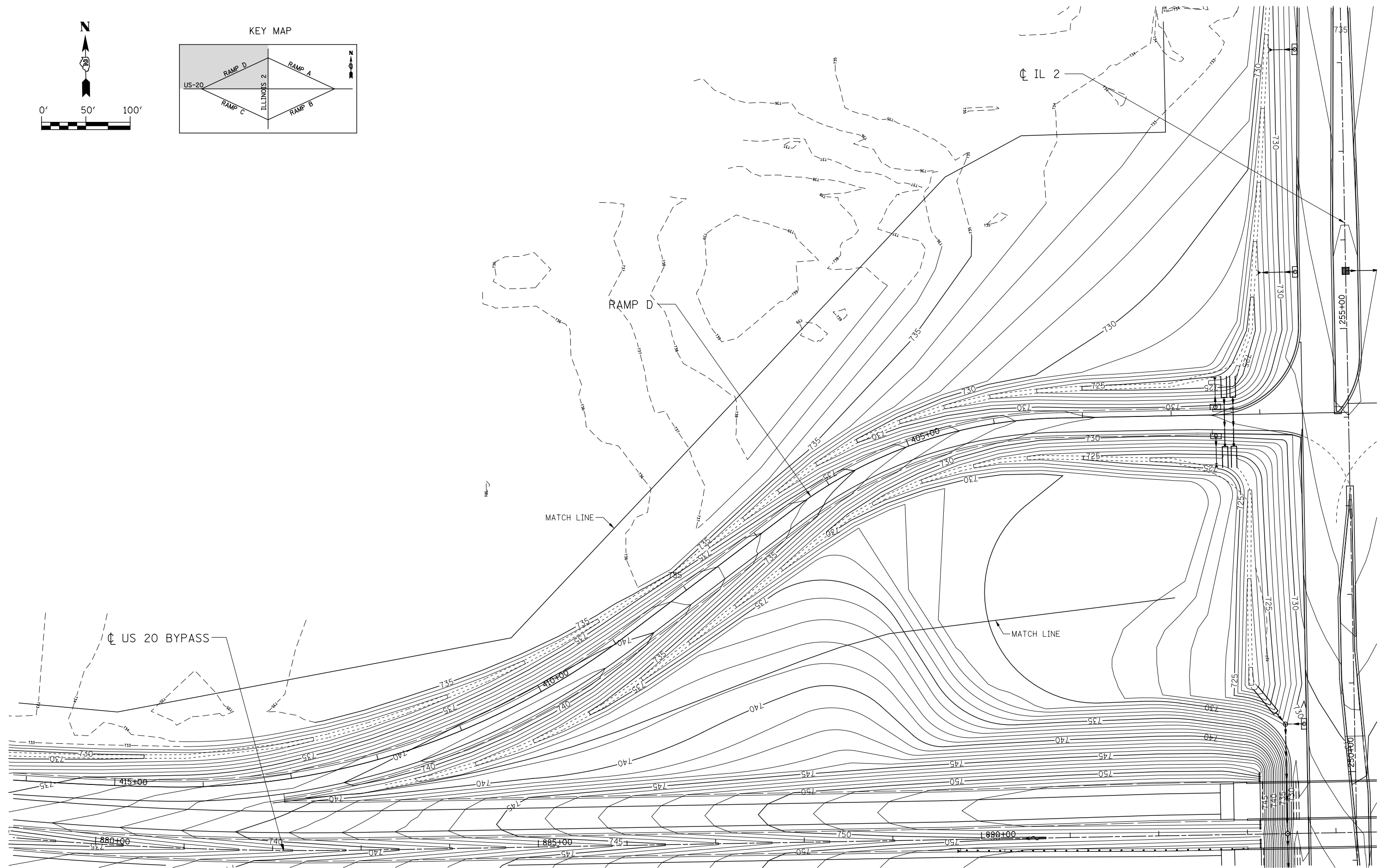
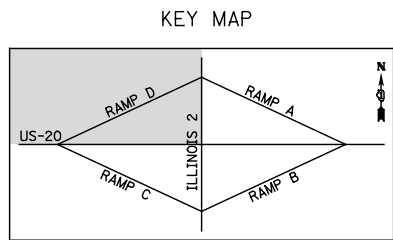
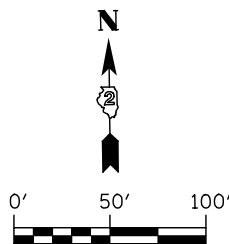
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PLOT SCALE = 1:100	DRAWN - PMO	REVISED -
PLOT DATE = 8/16/2018	CHECKED - DMS	REVISED -
	DATE - 08-15-2018	REVISED -

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

**GRADING PLAN**  
**RAMP C**

SCALE: 1"=50'      SHEET NO.      OF      SHEETS      STA. 850+25.00 TO STA. 860+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
742	3HBR	WINNEBAGO	689	407
CONTRACT NO. 64B87				
FED. ROAD DIST. NO.      ILLINOIS FED. AID PROJECT				



**KNIGHT**  
Engineers & Architects

USER NAME = dsilwo	DESIGNED - PMO	REVISED -
PLOT SCALE = 1:100	DRAWN - PMO	REVISED -
PLOT DATE = 8/16/2018	CHECKED - DMS	REVISED -
	DATE - 08-15-2018	REVISED -

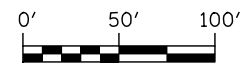
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**GRADING PLAN  
RAMP D**

SCALE: 1"=50' SHEET NO. OF SHEETS STA. 850+25.00 TO STA. 860+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
742	3HBR	WINNEBAGO	689	408
CONTRACT NO. 64B87				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

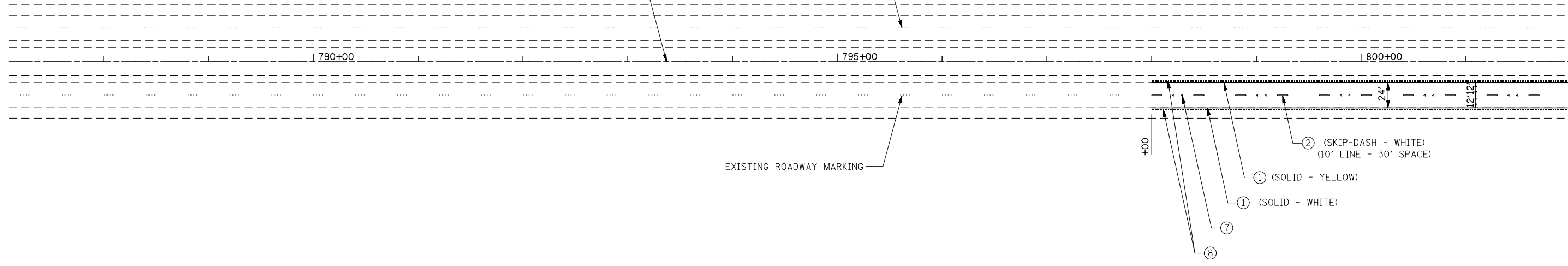




⊕ US 20 BYPASS

EXISTING ROADWAY MARKING

EXISTING ROADWAY MARKING



**PAVEMENT MARKING LEGEND**

- ① MODIFIED URETHANE PAVEMENT MARKING - LINE 4"
- ② MODIFIED URETHANE PAVEMENT MARKING - LINE 6"
- ③ MODIFIED URETHANE MARKING - LINE 8"
- ④ MODIFIED URETHANE MARKING - LINE 12"
- ⑤ MODIFIED URETHANE PAVEMENT MARKING - LINE 24"
- ⑥ MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS
- ⑦ RAISED REFLECTIVE PAVEMENT MARKER (STD 781001)
- ⑧ SHOULDER RUMBLE STRIP (STD 642001)

NOTE: SEE REMOVAL PLANS FOR SIGNING REMOVALS EXCEPT AS NOTED.

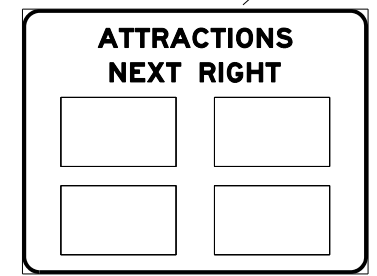
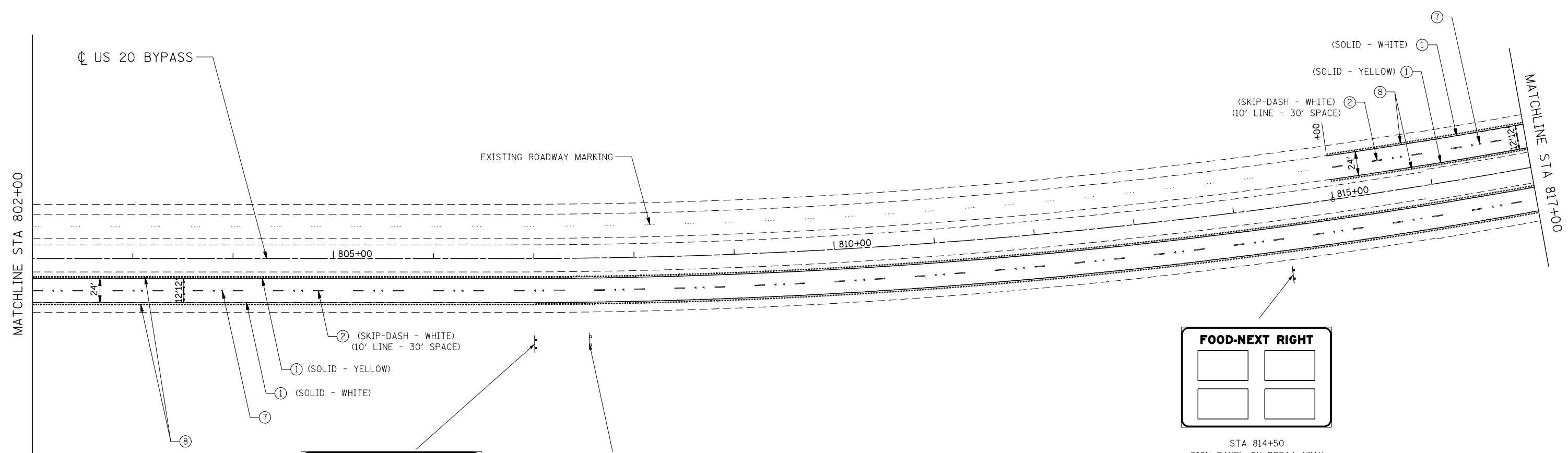
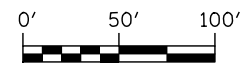


USER NAME = dsiwo	DESIGNED - PMO	REVISED -
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PLOT DATE = 8/16/2018	DATE - 08-15-2018	REVISED -

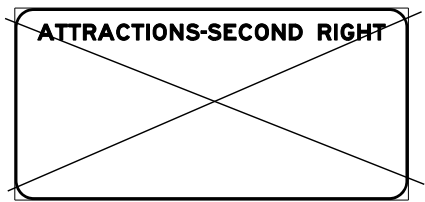
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>SIGNING AND PAVEMENT MARKING PLAN US ROUTE 20 BYPASS</b>	
SCALE: 1"=50'	SHEET NO. 1 OF 13 SHEETS
STA. 850+25	TO STA. 802+00

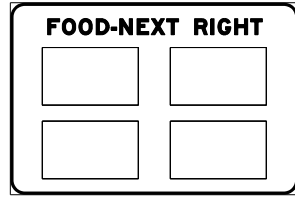
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
742	3HBR	WINNEBAGO	689	409
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 64B87	



STA 806+00  
SIGN PANEL ON BREAK-AWAY  
STEEL SIGN SUPPORTS  
GROUND MOUNTED  
(15' X 11.5')  
(SEE SIGN PANEL DETAIL, EB-US20-01)



STA 807+55  
REMOVE SIGN PANEL (20.5' x 10')  
REMOVE GROUND MOUNTED SIGN SUPPORTS  
REMOVE CONCRETE FOUNDATION - GROUND MOUNT  
NOTE: THIS SIGN REMOVAL IS NOT SHOWN ON REMOVAL PLANS



STA 814+50  
SIGN PANEL ON BREAK-AWAY  
STEEL SIGN SUPPORTS  
GROUND MOUNTED  
(15' X 10')  
(SEE SIGN PANEL DETAIL, EB-US20-08)

**PAVEMENT MARKING LEGEND**

- ① MODIFIED URETHANE PAVEMENT MARKING - LINE 4"
- ② MODIFIED URETHANE PAVEMENT MARKING - LINE 6"
- ③ MODIFIED URETHANE MARKING - LINE 8"
- ④ MODIFIED URETHANE MARKING - LINE 12"
- ⑤ MODIFIED URETHANE PAVEMENT MARKING - LINE 24"
- ⑥ MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS
- ⑦ RAISED REFLECTIVE PAVEMENT MARKER (STD 781001)
- ⑧ SHOULDER RUMBLE STRIP (STD 642001)

NOTE: SEE REMOVAL PLANS FOR SIGNING REMOVALS EXCEPT AS NOTED.

**KNIGHT**  
Engineers & Architects

USER NAME = dsiwo	DESIGNED - PMO	REVISED -
	DRAWN - PMO	REVISED -
PLOT SCALE = 1:100	CHECKED - DMS	REVISED -
PLOT DATE = 8/16/2018	DATE - 08-15-2018	REVISED -

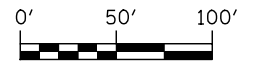
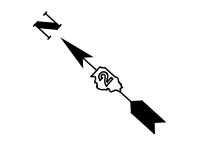
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**SIGNING AND PAVEMENT MARKING PLAN  
US ROUTE 20 BYPASS**

SCALE: 1"=50' SHEET NO. 2 OF 13 SHEETS STA. 802+00 TO STA. 817+00

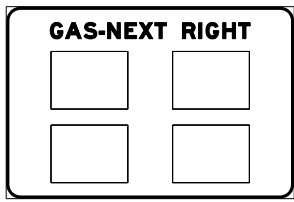
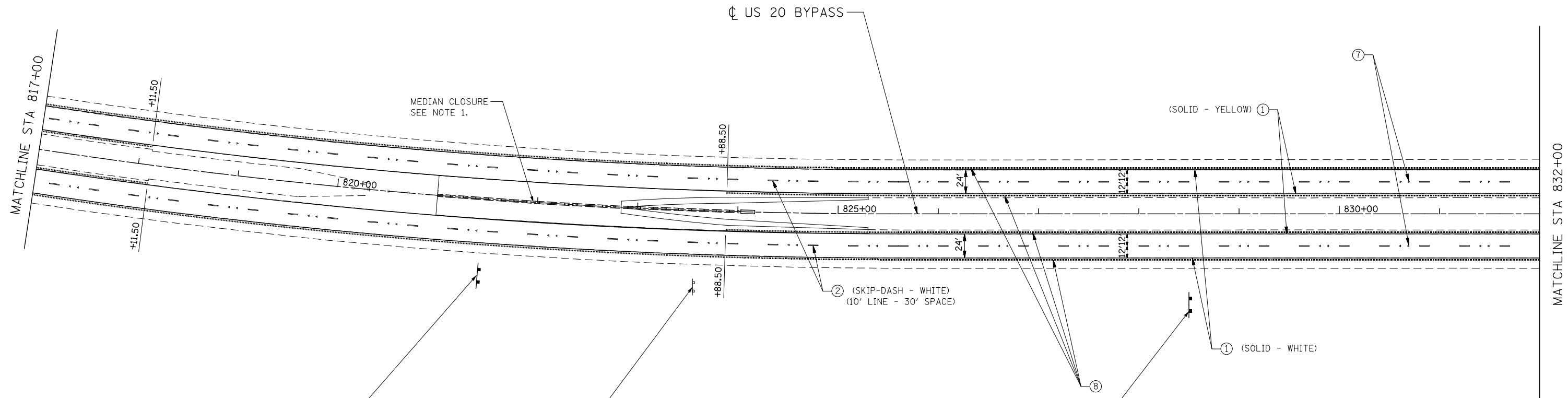
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
742	3HBR	WINNEBAGO	689	410
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	

CONTRACT NO. 64B87

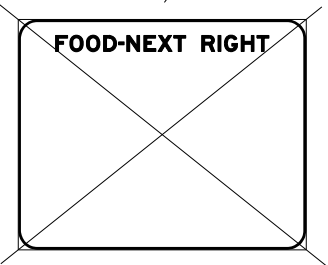


**NOTES:**

1. FOR MORE INFORMATION, SEE 87.4 - TYPICAL MEDIAN CROSSOVER CLOSURE (WITH EMERGENCY OPENING) - DISTRICT 2 STANDARD.



STA 821+50  
SIGN PANEL ON BREAK-AWAY  
STEEL SIGN SUPPORTS  
GROUND MOUNTED  
(15' X 10')  
(SEE SIGN PANEL DETAIL, EB-US20-09)



STA 823+58  
REMOVE SIGN PANEL (15' X 12')  
REMOVE GROUND MOUNTED SIGN SUPPORTS  
REMOVE CONCRETE FOUNDATION - GROUND MOUNT  
NOTE: THIS SIGN REMOVAL IS NOT SHOWN ON REMOVAL PLANS



STA 828+50  
SIGN PANEL ON BREAK-AWAY  
STEEL SIGN SUPPORTS  
GROUND MOUNTED  
(12' X 13')  
(SEE SIGN PANEL DETAIL, EB-US20-03)

**PAVEMENT MARKING LEGEND**

- ① MODIFIED URETHANE PAVEMENT MARKING - LINE 4"
- ② MODIFIED URETHANE PAVEMENT MARKING - LINE 6"
- ③ MODIFIED URETHANE MARKING - LINE 8"
- ④ MODIFIED URETHANE MARKING - LINE 12"
- ⑤ MODIFIED URETHANE PAVEMENT MARKING - LINE 24"
- ⑥ MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS
- ⑦ RAISED REFLECTIVE PAVEMENT MARKER (STD 781001)
- ⑧ SHOULDER RUMBLE STRIP (STD 642001)

NOTE: SEE REMOVAL PLANS FOR SIGNING REMOVALS EXCEPT AS NOTED.



USER NAME = dsiwo	DESIGNED - PMO	REVISED -
	DRAWN - PMO	REVISED -
PLOT SCALE = 1:100	CHECKED - DMS	REVISED -
PLOT DATE = 8/16/2018	DATE - 08-15-2018	REVISED -

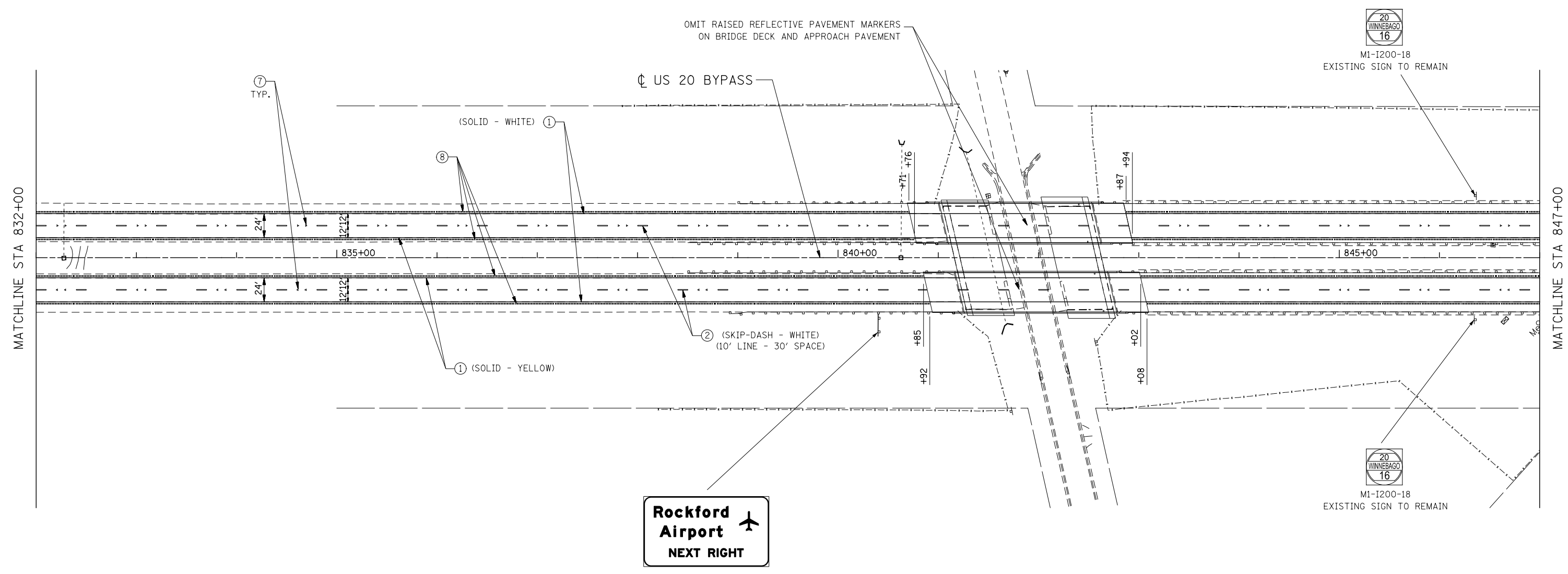
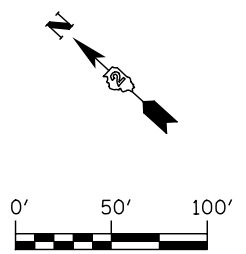
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SIGNING AND PAVEMENT MARKING PLAN  
US ROUTE 20 BYPASS**

SCALE: 1"=50' SHEET NO. 3 OF 13 SHEETS STA. 817+00 TO STA. 832+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
742	3HBR	WINNEBAGO	689	411
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	

CONTRACT NO. 64B87



OMIT RAISED REFLECTIVE PAVEMENT MARKERS ON BRIDGE DECK AND APPROACH PAVEMENT

US 20 BYPASS

M1-1200-18  
EXISTING SIGN TO REMAIN

**Rockford Airport**  
**NEXT RIGHT**

STA 840+40  
NEW SIGN PANEL ON EXISTING SUPPORTS  
(12.5' X 7') (SEE SIGN PANEL DETAIL, EB-US20-05)

M1-1200-18  
EXISTING SIGN TO REMAIN

**PAVEMENT MARKING LEGEND**

- ① MODIFIED URETHANE PAVEMENT MARKING - LINE 4"
- ② MODIFIED URETHANE PAVEMENT MARKING - LINE 6"
- ③ MODIFIED URETHANE MARKING - LINE 8"
- ④ MODIFIED URETHANE MARKING - LINE 12"
- ⑤ MODIFIED URETHANE PAVEMENT MARKING - LINE 24"
- ⑥ MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS
- ⑦ RAISED REFLECTIVE PAVEMENT MARKER (STD 781001)
- ⑧ SHOULDER RUMBLE STRIP (STD 642001)

NOTE: SEE REMOVAL PLANS FOR SIGNING REMOVALS EXCEPT AS NOTED.

**KNIGHT**  
Engineers & Architects

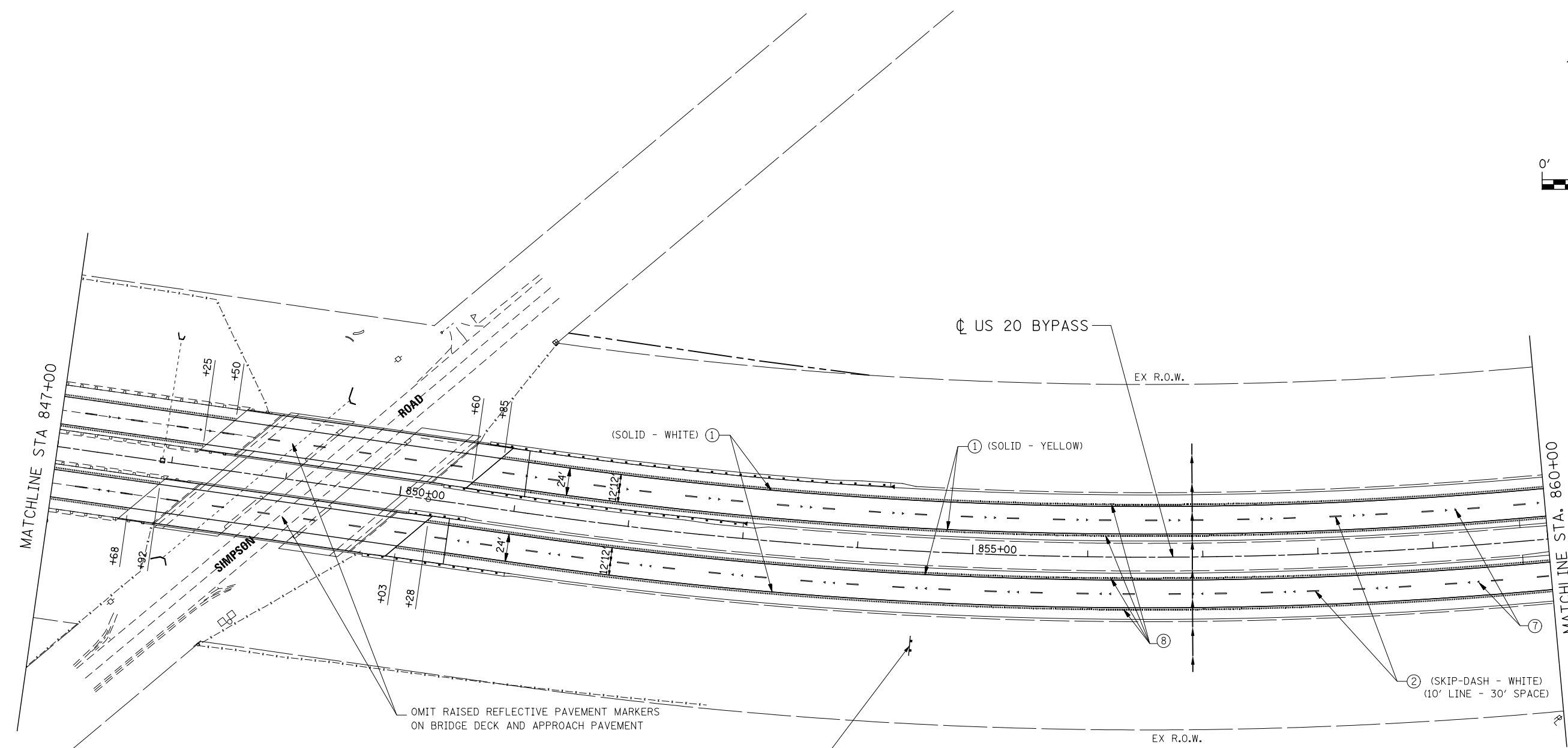
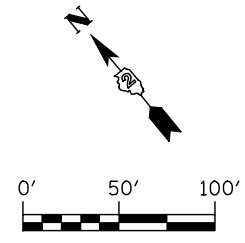
USER NAME = dsiwo	DESIGNED - PMO	REVISED -
	DRAWN - PMO	REVISED -
PLOT SCALE = 1:100	CHECKED - DMS	REVISED -
PLOT DATE = 8/16/2018	DATE - 08-15-2018	REVISED -

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

**SIGNING AND PAVEMENT MARKING PLAN**  
**US ROUTE 20 BYPASS**

SCALE: 1"=50' SHEET NO. 4 OF 13 SHEETS STA. 832+00 TO STA. 847+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
742	3HBR	WINNEBAGO	689	412
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 64B87	



STA 854+50  
SIGN PANEL (12' x 13') ON BREAK-AWAY  
STEEL SIGN SUPPORTS  
(SEE SIGN PANEL DETAIL, EB-US20-04)

**PAVEMENT MARKING LEGEND**

- ① MODIFIED URETHANE PAVEMENT MARKING - LINE 4"
- ② MODIFIED URETHANE PAVEMENT MARKING - LINE 6"
- ③ MODIFIED URETHANE MARKING - LINE 8"
- ④ MODIFIED URETHANE MARKING - LINE 12"
- ⑤ MODIFIED URETHANE PAVEMENT MARKING - LINE 24"
- ⑥ MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS
- ⑦ RAISED REFLECTIVE PAVEMENT MARKER (STD 781001)
- ⑧ SHOULDER RUMBLE STRIP (STD 642001)

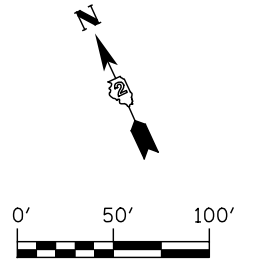
NOTE: SEE REMOVAL PLANS FOR SIGNING REMOVALS EXCEPT AS NOTED.

USER NAME = dsiwo	DESIGNED - PMO	REVISED -
	DRAWN - PMO	REVISED -
PLOT SCALE = 1:100	CHECKED - DMS	REVISED -
PLOT DATE = 8/16/2018	DATE - 08-15-2018	REVISED -

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
742	3HBR	WINNEBAGO	689	413
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 64B87	

**NOTES:**

- FOR MORE INFORMATION, SEE 87.4 - TYPICAL MEDIAN CROSSOVER CLOSURE (WITH EMERGENCY OPENING) - DISTRICT 2 STANDARD.



R3-4 (36x36)  

R3-1101 (36x24)  

STA 862+00  
INSTALL SIGN PANELS  
BACK TO BACK ON WOOD POST

**SPEED LIMIT 65**

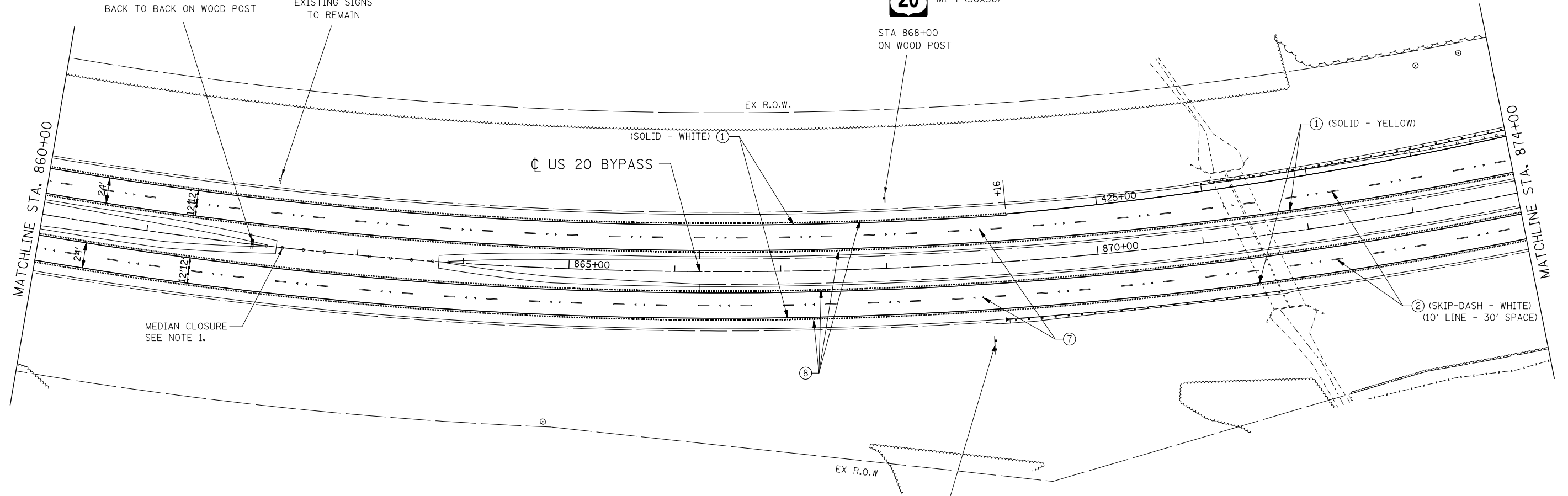
**MINIMUM 45**

EXISTING SIGNS  
TO REMAIN

**WEST** M3-4 (36x18)

**20** M1-4 (36x36)

STA 868+00  
ON WOOD POST



**BMO Harris  
Bank Center  
NEXT RIGHT**

STA 869+00  
SIGN PANEL (15' x 7') ON BREAK-AWAY  
STEEL SIGN SUPPORTS  
(SEE SIGN PANEL DETAIL, EB-US20-06)

**PAVEMENT MARKING LEGEND**

- ① MODIFIED URETHANE PAVEMENT MARKING - LINE 4"
- ② MODIFIED URETHANE PAVEMENT MARKING - LINE 6"
- ③ MODIFIED URETHANE MARKING - LINE 8"
- ④ MODIFIED URETHANE MARKING - LINE 12"
- ⑤ MODIFIED URETHANE PAVEMENT MARKING - LINE 24"
- ⑥ MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS
- ⑦ RAISED REFLECTIVE PAVEMENT MARKER (STD 781001)
- ⑧ SHOULDER RUMBLE STRIP (STD 642001)

NOTE: SEE REMOVAL PLANS FOR SIGNING REMOVALS EXCEPT AS NOTED.



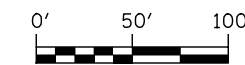
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PLOT DATE = 8/16/2018	DATE - 08-15-2018	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SIGNING AND PAVEMENT MARKING PLAN  
US ROUTE 20 BYPASS**

SCALE: 1" = 50' SHEET NO. 6 OF 13 SHEETS STA. 860+00 TO STA. 874+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
742	3HBR	WINNEBAGO	689	414
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 64B87	

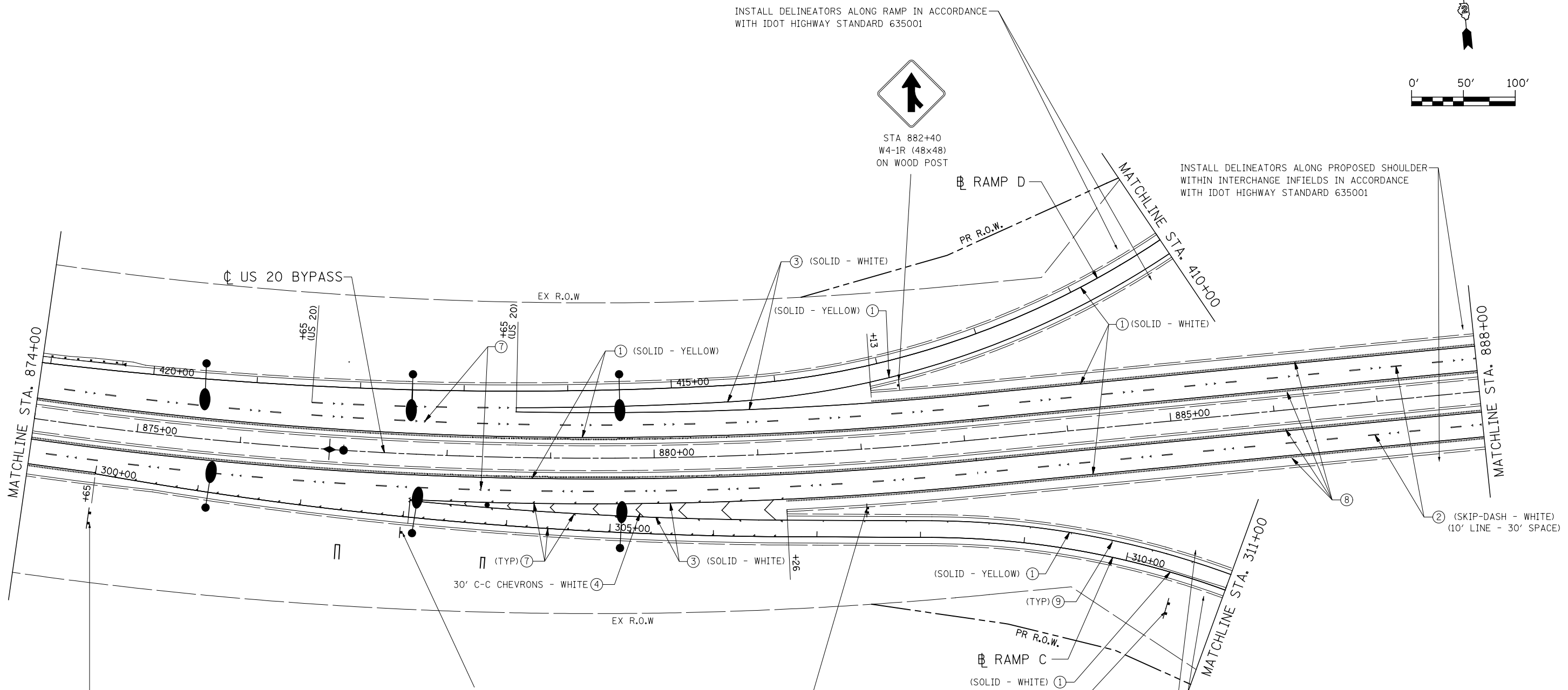


INSTALL DELINEATORS ALONG RAMP IN ACCORDANCE WITH IDOT HIGHWAY STANDARD 635001



STA 882+40  
W4-1R (48x48)  
ON WOOD POST

INSTALL DELINEATORS ALONG PROPOSED SHOULDER WITHIN INTERCHANGE INFIELDS IN ACCORDANCE WITH IDOT HIGHWAY STANDARD 635001



MATCHLINE STA. 874+00

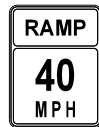
MATCHLINE STA. 410+00

MATCHLINE STA. 888+00

MATCHLINE STA. 311+00



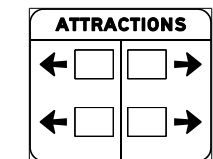
STA 874+65  
SIGN PANEL (12' x 14') ON BREAK-AWAY STEEL SIGN SUPPORTS  
(SEE SIGN PANEL DETAIL, EB-US20-07)



STA 303+00  
W13-3 (48x60)  
ON WOOD SIGN SUPPORT



STA 882+00  
E5-1 (72x60) ON 2 WOOD POSTS



STA 310+50  
SIGN PANEL (9.5' x 8')  
ON BREAK-AWAY STEEL SIGN SUPPORTS  
(SEE SIGN PANEL DETAIL, EB-RAMP C-41)

**PAVEMENT MARKING LEGEND**

- ① MODIFIED URETHANE PAVEMENT MARKING - LINE 4"
- ② MODIFIED URETHANE PAVEMENT MARKING - LINE 6"
- ③ MODIFIED URETHANE MARKING - LINE 8"
- ④ MODIFIED URETHANE MARKING - LINE 12"
- ⑤ MODIFIED URETHANE PAVEMENT MARKING - LINE 24"
- ⑥ MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS
- ⑦ RAISED REFLECTIVE PAVEMENT MARKER (STD 781001)
- ⑧ SHOULDER RUMBLE STRIP (STD 642001)

NOTE: SEE REMOVAL PLANS FOR SIGNING REMOVALS EXCEPT AS NOTED.

INSTALL DELINEATORS ALONG RAMP IN ACCORDANCE WITH IDOT HIGHWAY STANDARD 635001



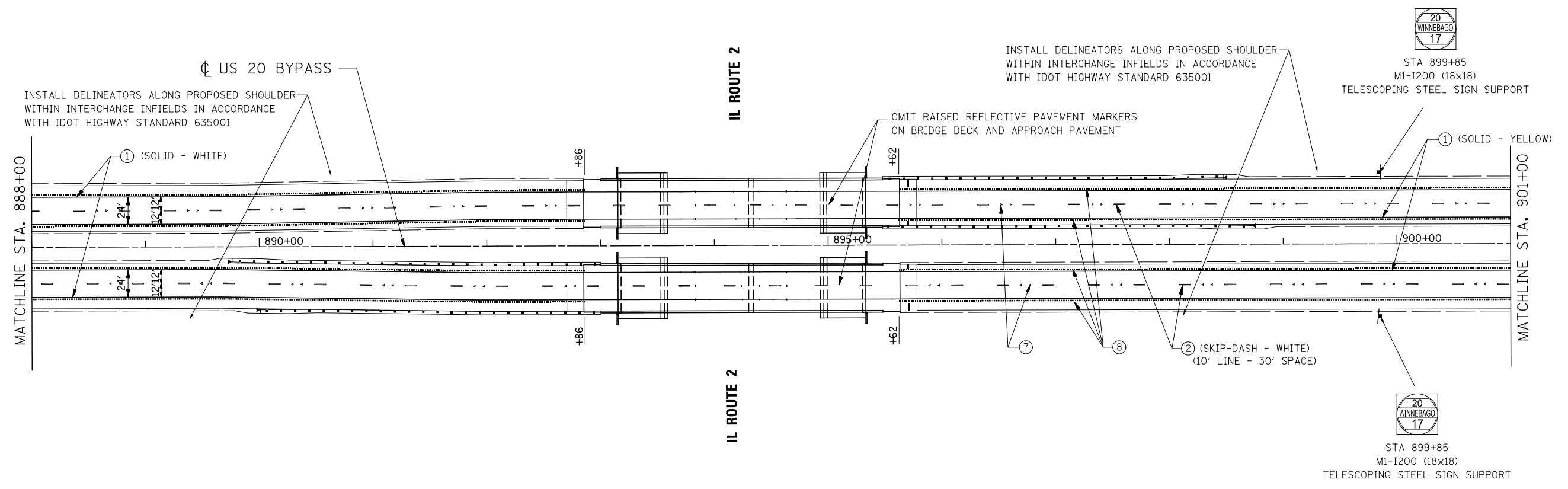
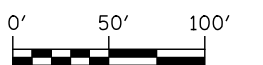
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PLOT DATE = 8/16/2018	CHECKED - DMS	REVISED -
	DATE - 08-15-2018	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**SIGNING AND PAVEMENT MARKING PLAN  
US ROUTE 20 BYPASS**

SCALE: 1" = 50' SHEET NO. 7 OF 13 SHEETS STA. 874+00 TO STA. 888+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
742	3HBR	WINNEBAGO	689	415
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 64B87	



**PAVEMENT MARKING LEGEND**

- ① MODIFIED URETHANE PAVEMENT MARKING - LINE 4"
- ② MODIFIED URETHANE PAVEMENT MARKING - LINE 6"
- ③ MODIFIED URETHANE MARKING - LINE 8"
- ④ MODIFIED URETHANE MARKING - LINE 12"
- ⑤ MODIFIED URETHANE PAVEMENT MARKING - LINE 24"
- ⑥ MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS
- ⑦ RAISED REFLECTIVE MARKER (STD 781001)
- ⑧ SHOULDER RUMBLE STRIP (STD 642001)

NOTE: SEE REMOVAL PLANS FOR SIGNING REMOVALS EXCEPT AS NOTED.



USER NAME = dsiwo	DESIGNED - PMO	REVISED -
	DRAWN - PMO	REVISED -
PLOT SCALE = 1:100	CHECKED - DMS	REVISED -
PLOT DATE = 8/16/2018	DATE - 08-15-2018	REVISED -

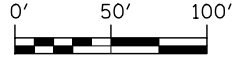
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SIGNING AND PAVEMENT MARKING PLAN  
US ROUTE 20 BYPASS**

SCALE: 1' = 50'    SHEET NO. 8 OF 13 SHEETS    STA. 888+00 TO STA. 901+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
742	3HBR	WINNEBAGO	689	416
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 64B87	

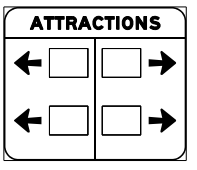




**NOTES:**

1. FOR MORE INFORMATION, SEE 87.4 - TYPICAL MEDIAN CROSSOVER CLOSURE (WITH EMERGENCY OPENING) - DISTRICT 2 STANDARD.

INSTALL DELINEATORS ALONG PROPOSED SHOULDER WITHIN INTERCHANGE INFIELDS IN ACCORDANCE WITH IDOT HIGHWAY STANDARD 635001



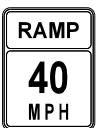
STA 110+50  
SIGN PANEL (9.5' x 8')  
ON BREAK-AWAY STEEL SIGN SUPPORTS  
(SEE SIGN PANEL DETAIL, WB-RAMP A-31)



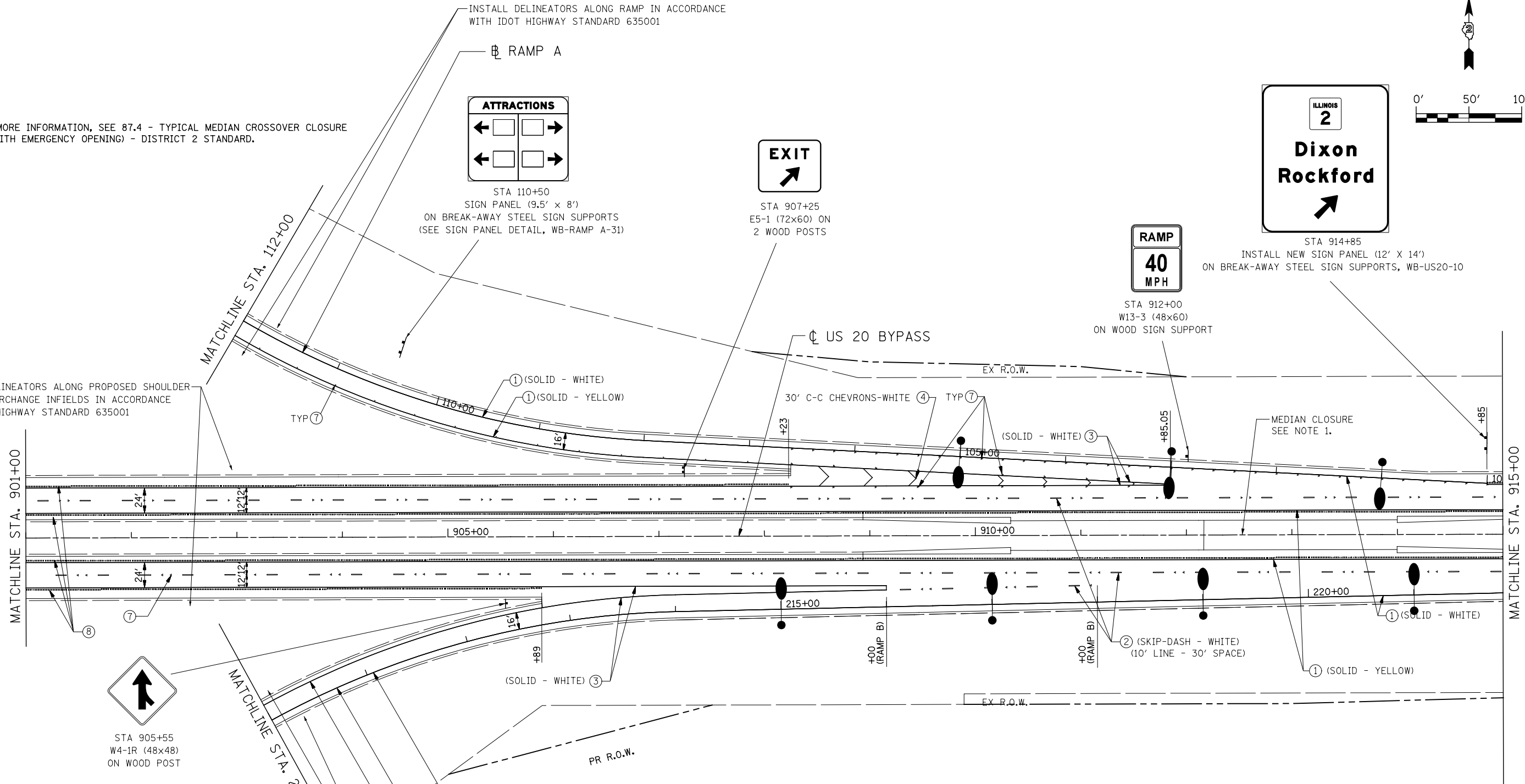
STA 907+25  
E5-1 (72x60) ON  
2 WOOD POSTS



STA 914+85  
INSTALL NEW SIGN PANEL (12' X 14')  
ON BREAK-AWAY STEEL SIGN SUPPORTS, WB-US20-10



STA 912+00  
W13-3 (48x60)  
ON WOOD SIGN SUPPORT



STA 905+55  
W4-1R (48x48)  
ON WOOD POST

**PAVEMENT MARKING LEGEND**

- ① MODIFIED URETHANE PAVEMENT MARKING - LINE 4"
- ② MODIFIED URETHANE PAVEMENT MARKING - LINE 6"
- ③ MODIFIED URETHANE MARKING - LINE 8"
- ④ MODIFIED URETHANE MARKING - LINE 12"
- ⑤ MODIFIED URETHANE PAVEMENT MARKING - LINE 24"
- ⑥ MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS
- ⑦ RAISED REFLECTIVE PAVEMENT MARKER (STD 781001)
- ⑧ SHOULDER RUMBLE STRIP (STD 642001)

NOTE: SEE REMOVAL PLANS FOR SIGNING REMOVALS EXCEPT AS NOTED.



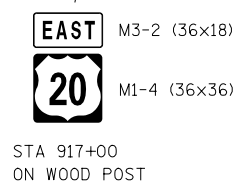
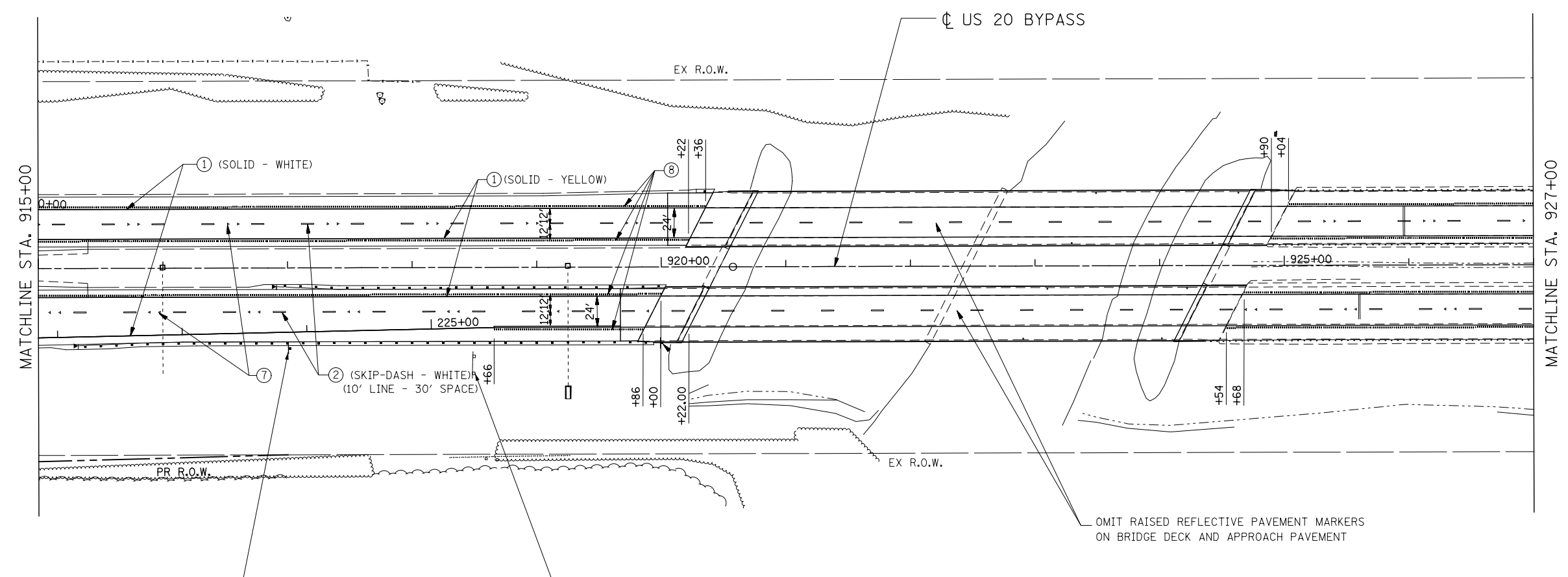
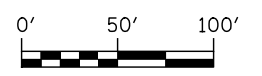
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PLOT DATE = 8/16/2018	CHECKED - DMS	REVISED -
	DATE - 08-15-2018	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**SIGNING AND PAVEMENT MARKING PLAN  
US ROUTE 20 BYPASS**

SCALE: 1" = 50' SHEET NO. 9 OF 13 SHEETS STA. 901+00 TO STA. 915+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
742	3HBR	WINNEBAGO	689	417
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 64B87	



**PAVEMENT MARKING LEGEND**

- ① MODIFIED URETHANE PAVEMENT MARKING - LINE 4"
- ② MODIFIED URETHANE PAVEMENT MARKING - LINE 6"
- ③ MODIFIED URETHANE MARKING - LINE 8"
- ④ MODIFIED URETHANE MARKING - LINE 12"
- ⑤ MODIFIED URETHANE PAVEMENT MARKING - LINE 24"
- ⑥ MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS
- ⑦ RAISED REFLECTIVE PAVEMENT MARKER (STD 781001)
- ⑧ SHOULDER RUMBLE STRIP (STD 642001)

NOTE: SEE REMOVAL PLANS FOR SIGNING REMOVALS EXCEPT AS NOTED.



USER NAME = dsiwo	DESIGNED - PMO	REVISED -
	DRAWN - PMO	REVISED -
PLOT SCALE = 1:100	CHECKED - DMS	REVISED -
PLOT DATE = 8/16/2018	DATE - 08-15-2018	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SIGNING AND PAVEMENT MARKING PLAN  
US ROUTE 20 BYPASS**

SCALE: 1" = 50' SHEET NO. 10 OF 13 SHEETS STA. 915+00 TO STA. 927+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
742	3HBR	WINNEBAGO	689	418
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 64B87	

**Chicago Rockford Intl Airport**  
SECOND RIGHT

STA 934+85  
REMOVE SIGN PANEL (22' x 8')  
REMOVE GROUND MOUNTED SIGN SUPPORTS  
REMOVE CONCRETE FOUNDATION - GROUND MOUNT  
NOTE: THIS SIGN REMOVAL IS NOT SHOWN ON REMOVAL PLANS

**Metro Centre Marinetti Field**  
NEXT RIGHT

STA 938+67  
REMOVE SIGN PANEL (18' x 7')  
REMOVE GROUND MOUNTED SIGN SUPPORTS  
REMOVE CONCRETE FOUNDATION - GROUND MOUNT  
NOTE: THIS SIGN REMOVAL IS NOT SHOWN ON REMOVAL PLANS

**Rockford Airport**  
NEXT RIGHT

STA 927+60  
NEW SIGN PANEL (12.5' x 7')  
ON BREAKAWAY STEEL SIGN SUPPORTS  
(SEE SIGN PANEL DETAIL, WB-US20-12)

ILLINOIS  
**2**  
**Dixon Rockford**  
1/2 MILE

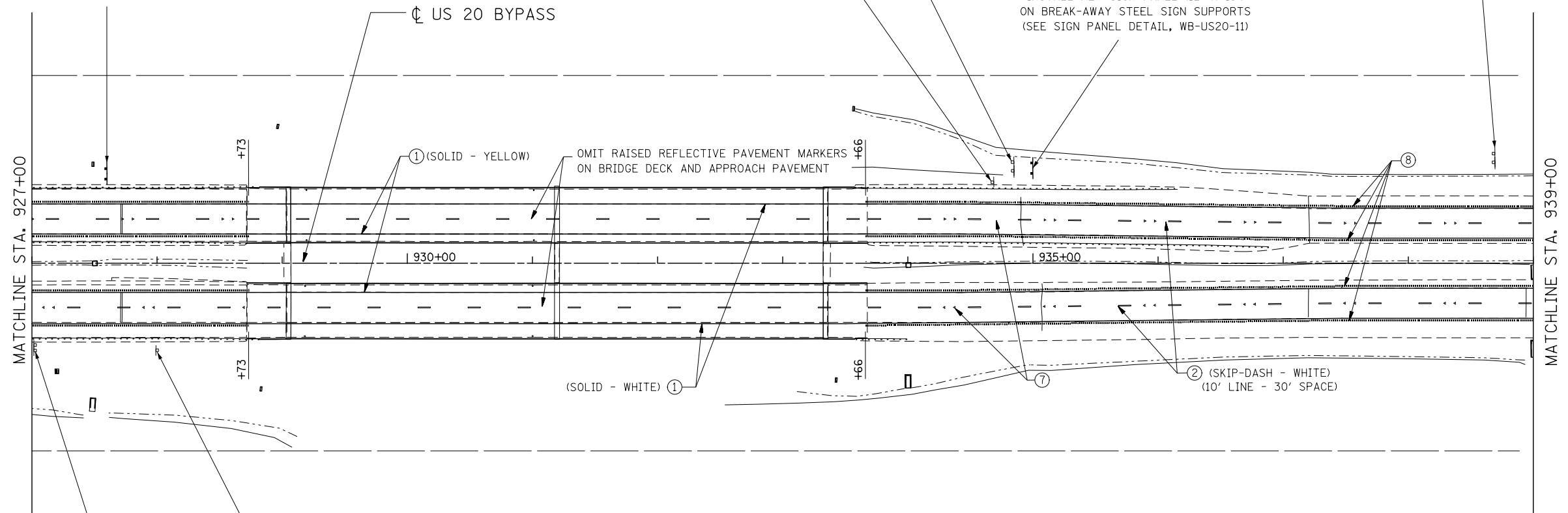
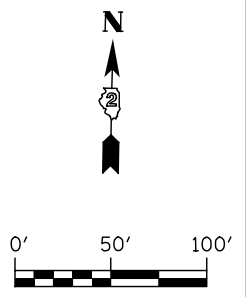
STA 935+00  
INSTALL NEW SIGN PANEL (12' x 13')  
ON BREAK-AWAY STEEL SIGN SUPPORTS  
(SEE SIGN PANEL DETAIL, WB-US20-11)

**Rock River**  
EXISTING SIGN TO REMAIN

**Rock River**  
EXISTING SIGN TO REMAIN

**SPEED LIMIT 65**  
**MINIMUM 45**

EXISTING SIGNS TO REMAIN



**PAVEMENT MARKING LEGEND**

- ① MODIFIED URETHANE PAVEMENT MARKING - LINE 4"
- ② MODIFIED URETHANE PAVEMENT MARKING - LINE 6"
- ③ MODIFIED URETHANE MARKING - LINE 8"
- ④ MODIFIED URETHANE MARKING - LINE 12"
- ⑤ MODIFIED URETHANE PAVEMENT MARKING - LINE 24"
- ⑥ MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS
- ⑦ RAISED REFLECTIVE PAVEMENT MARKER (STD 781001)
- ⑧ SHOULDER RUMBLE STRIP (STD 642001)

NOTE: SEE REMOVAL PLANS FOR SIGNING REMOVALS EXCEPT AS NOTED.

**KNIGHT**  
Engineers & Architects

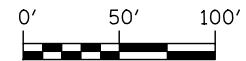
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	DRAWN - PMO	REVISED -
PLOT SCALE = 1:100	CHECKED - DMS	REVISED -
PLOT DATE = 8/16/2018	DATE - 08-15-2018	REVISED -

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

**SIGNING AND PAVEMENT MARKING PLAN**  
**US ROUTE 20 BYPASS**

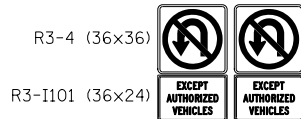
SCALE: 1" = 50' SHEET NO. 11 OF 13 SHEETS STA. 927+00 TO STA. 939+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
742	3HBR	WINNEBAGO	689	419
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 64B87	



**BMO Harris  
Bank Center  
NEXT RIGHT**

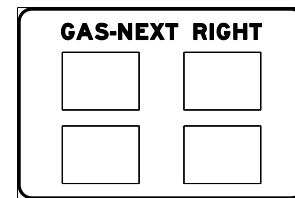
STA 941+00  
INSTALL NEW SIGN PANEL (15' X 7')  
ON BREAK-AWAY STEEL SIGN SUPPORTS  
(SEE SIGN PANEL DETAIL, WB-US20-13)



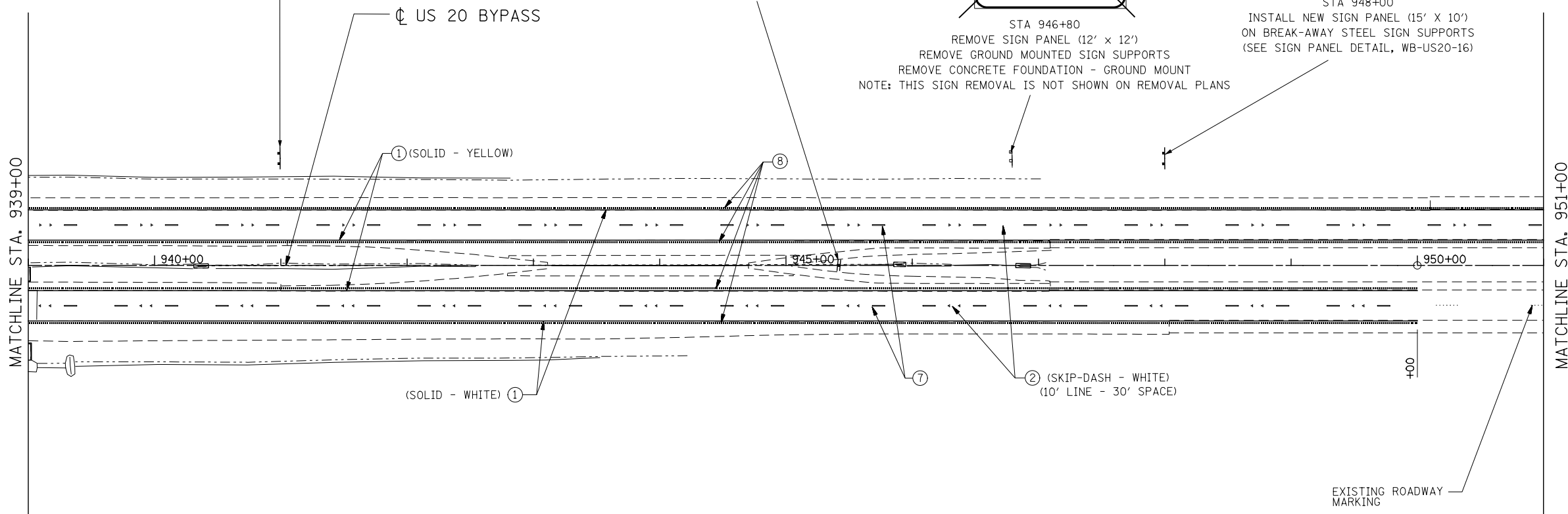
STA 945+40  
INSTALL SIGN PANELS  
BACK TO BACK ON WOOD POST



STA 946+80  
REMOVE SIGN PANEL (12' X 12')  
REMOVE GROUND MOUNTED SIGN SUPPORTS  
REMOVE CONCRETE FOUNDATION - GROUND MOUNT  
NOTE: THIS SIGN REMOVAL IS NOT SHOWN ON REMOVAL PLANS



STA 948+00  
INSTALL NEW SIGN PANEL (15' X 10')  
ON BREAK-AWAY STEEL SIGN SUPPORTS  
(SEE SIGN PANEL DETAIL, WB-US20-16)



**PAVEMENT MARKING LEGEND**

- ① MODIFIED URETHANE PAVEMENT MARKING - LINE 4"
- ② MODIFIED URETHANE PAVEMENT MARKING - LINE 6"
- ③ MODIFIED URETHANE MARKING - LINE 8"
- ④ MODIFIED URETHANE MARKING - LINE 12"
- ⑤ MODIFIED URETHANE PAVEMENT MARKING - LINE 24"
- ⑥ MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS
- ⑦ RAISED REFLECTIVE PAVEMENT MARKER (STD 781001)
- ⑧ SHOULDER RUMBLE STRIP (STD 642001)

NOTE: SEE REMOVAL PLANS FOR SIGNING REMOVALS EXCEPT AS NOTED.



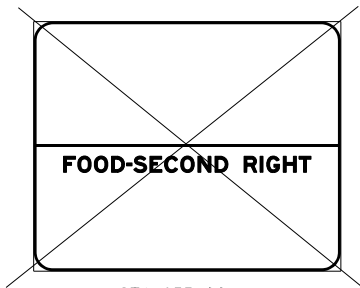
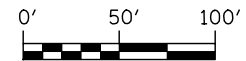
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PLOT DATE = 8/16/2018	DATE - 08-15-2018	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

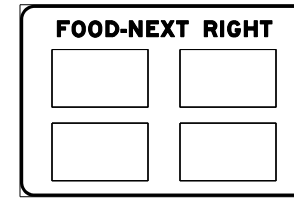
**SIGNING AND PAVEMENT MARKING PLAN  
US ROUTE 20 BYPASS**

SCALE: 1" = 50' SHEET NO. 12 OF 13 SHEETS STA. 939+00 TO STA. 951+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
742	3HBR	WINNEBAGO	689	420
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 64B87	



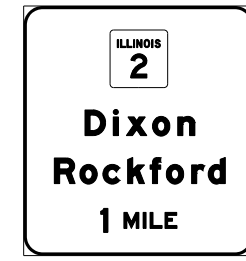
STA 955+00  
REMOVE SIGN PANEL (15' X 12')  
NOTE: THIS SIGN REMOVAL IS NOT SHOWN ON REMOVAL PLANS



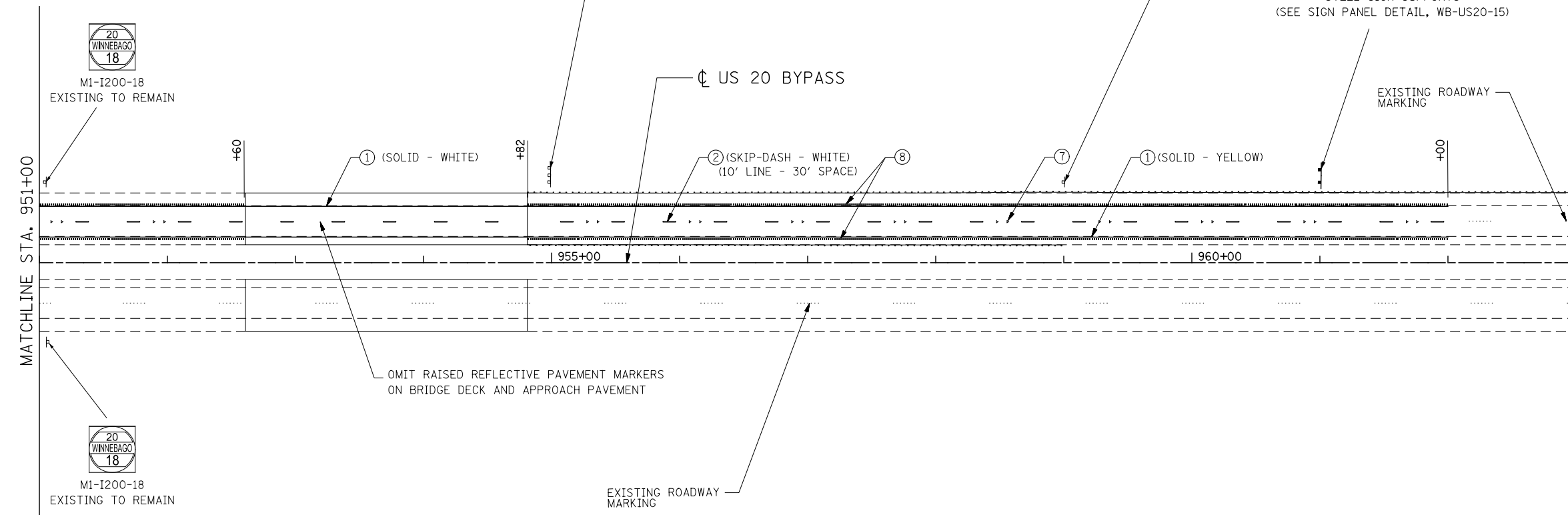
STA 955+00  
NEW SIGN PANEL (15' x 10')  
ON EXISTING BREAK-AWAY STEEL SIGN SUPPORTS  
(SEE SIGN PANEL DETAIL, WB-US20-17)



EXISTING SIGNS  
TO REMAIN



STA 961+00  
SIGN PANEL (12' x 13') ON BREAK-AWAY  
STEEL SIGN SUPPORTS  
(SEE SIGN PANEL DETAIL, WB-US20-15)



MATCHLINE STA. 951+00

M1-I200-18  
EXISTING TO REMAIN

M1-I200-18  
EXISTING TO REMAIN

① (SOLID - WHITE)

② (SKIP-DASH - WHITE)  
(10' LINE - 30' SPACE)

③

⑦

① (SOLID - YELLOW)

OMIT RAISED REFLECTIVE PAVEMENT MARKERS  
ON BRIDGE DECK AND APPROACH PAVEMENT

EXISTING ROADWAY  
MARKING

**PAVEMENT MARKING LEGEND**

- ① MODIFIED URETHANE PAVEMENT MARKING - LINE 4"
- ② MODIFIED URETHANE PAVEMENT MARKING - LINE 6"
- ③ MODIFIED URETHANE MARKING - LINE 8"
- ④ MODIFIED URETHANE MARKING - LINE 12"
- ⑤ MODIFIED URETHANE PAVEMENT MARKING - LINE 24"
- ⑥ MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS
- ⑦ RAISED REFLECTIVE PAVEMENT MARKER (STD 781001)
- ⑧ SHOULDER RUMBLE STRIP (STD 642001)

NOTE: SEE REMOVAL PLANS FOR SIGNING REMOVALS EXCEPT AS NOTED.



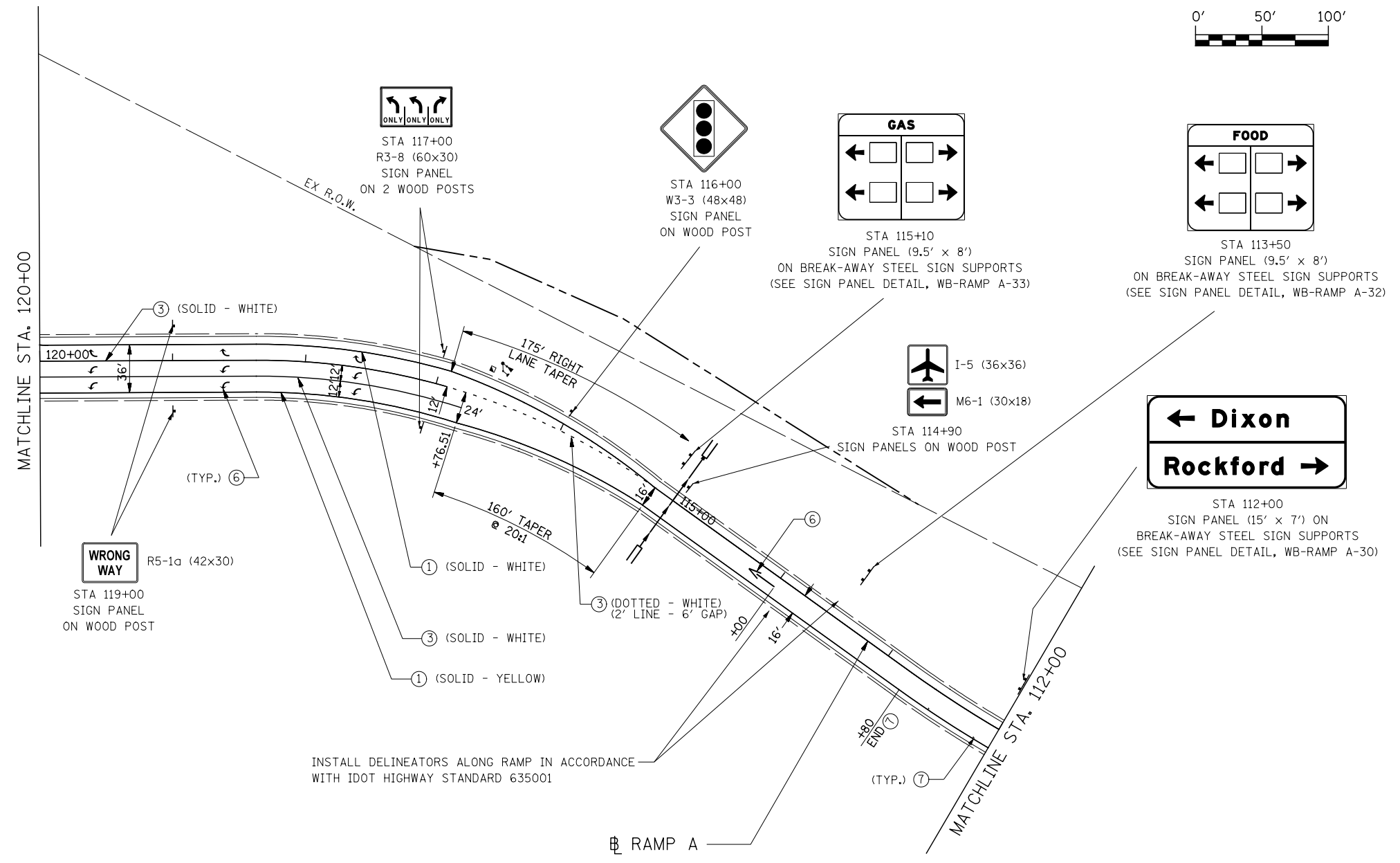
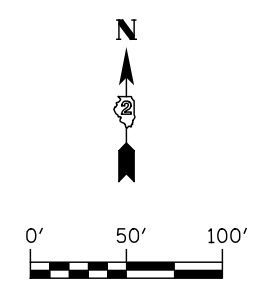
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	DRAWN - PMO	REVISED -
PLOT SCALE = 1:100	CHECKED - DMS	REVISED -
PLOT DATE = 8/16/2018	DATE - 08-15-2018	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**SIGNING AND PAVEMENT MARKING PLAN  
US ROUTE 20 BYPASS**

SCALE: 1" = 50' SHEET NO. 13 OF 13 SHEETS STA. 951+00 TO STA. 963+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
742	3HBR	WINNEBAGO	689	421
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 64B87	



INSTALL DELINEATORS ALONG RAMP IN ACCORDANCE WITH IDOT HIGHWAY STANDARD 635001

**PAVEMENT MARKING LEGEND**

- ① MODIFIED URETHANE PAVEMENT MARKING - LINE 4"
- ② MODIFIED URETHANE PAVEMENT MARKING - LINE 6"
- ③ MODIFIED URETHANE MARKING - LINE 8"
- ④ MODIFIED URETHANE MARKING - LINE 12"
- ⑤ MODIFIED URETHANE PAVEMENT MARKING - LINE 24"
- ⑥ MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS
- ⑦ RAISED REFLECTIVE PAVEMENT MARKER (STD 781001)
- ⑧ SHOULDER RUMBLE STRIP (STD 642001)

NOTE: SEE REMOVAL PLANS FOR SIGNING REMOVALS EXCEPT AS NOTED.



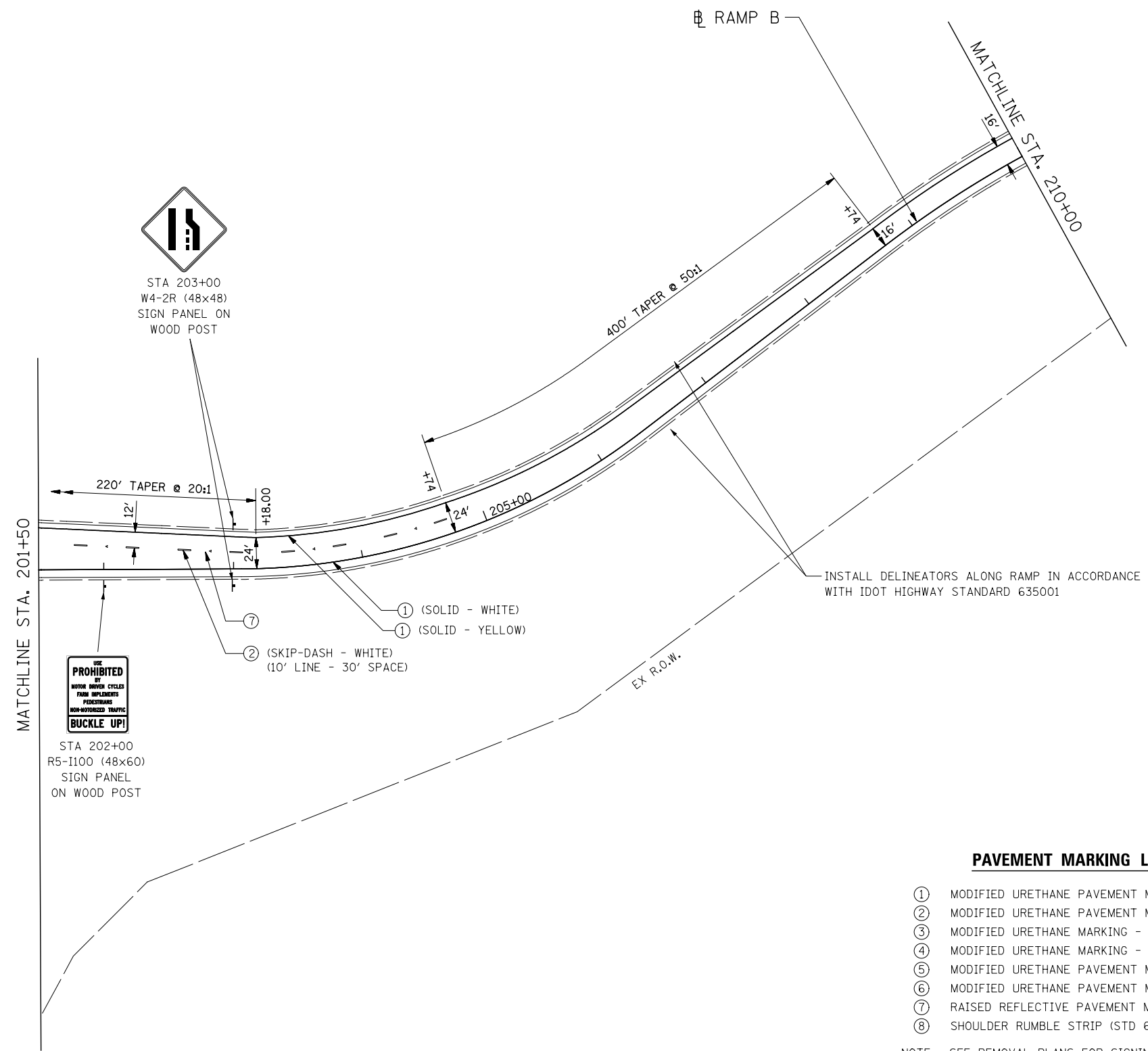
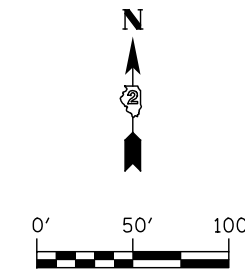
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	DRAWN - PMO	REVISED -
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PLOT DATE = 8/16/2018	DATE - 08-15-2018	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SIGNING AND PAVEMENT MARKING PLAN  
RAMP A**

SCALE: 1" = 50' SHEET NO. 1 OF 1 SHEETS STA. 120+00 TO STA. 112+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
742	3HBR	WINNEBAGO	689	422
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 64B87	



**PAVEMENT MARKING LEGEND**

- ① MODIFIED URETHANE PAVEMENT MARKING - LINE 4"
- ② MODIFIED URETHANE PAVEMENT MARKING - LINE 6"
- ③ MODIFIED URETHANE MARKING - LINE 8"
- ④ MODIFIED URETHANE MARKING - LINE 12"
- ⑤ MODIFIED URETHANE PAVEMENT MARKING - LINE 24"
- ⑥ MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS
- ⑦ RAISED REFLECTIVE PAVEMENT MARKER (STD 781001)
- ⑧ SHOULDER RUMBLE STRIP (STD 642001)

NOTE: SEE REMOVAL PLANS FOR SIGNING REMOVALS EXCEPT AS NOTED.



USER NAME = dsiwo	DESIGNED - PMO	REVISED -
	DRAWN - PMO	REVISED -
PLOT SCALE = 1:100	CHECKED - DMS	REVISED -
PLOT DATE = 8/16/2018	DATE - 08-15-2018	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SIGNING AND PAVEMENT MARKING PLAN  
RAMP B**

SCALE: 1" = 50' SHEET NO. 1 OF 1 SHEETS STA. 201+50 TO STA. 210+00

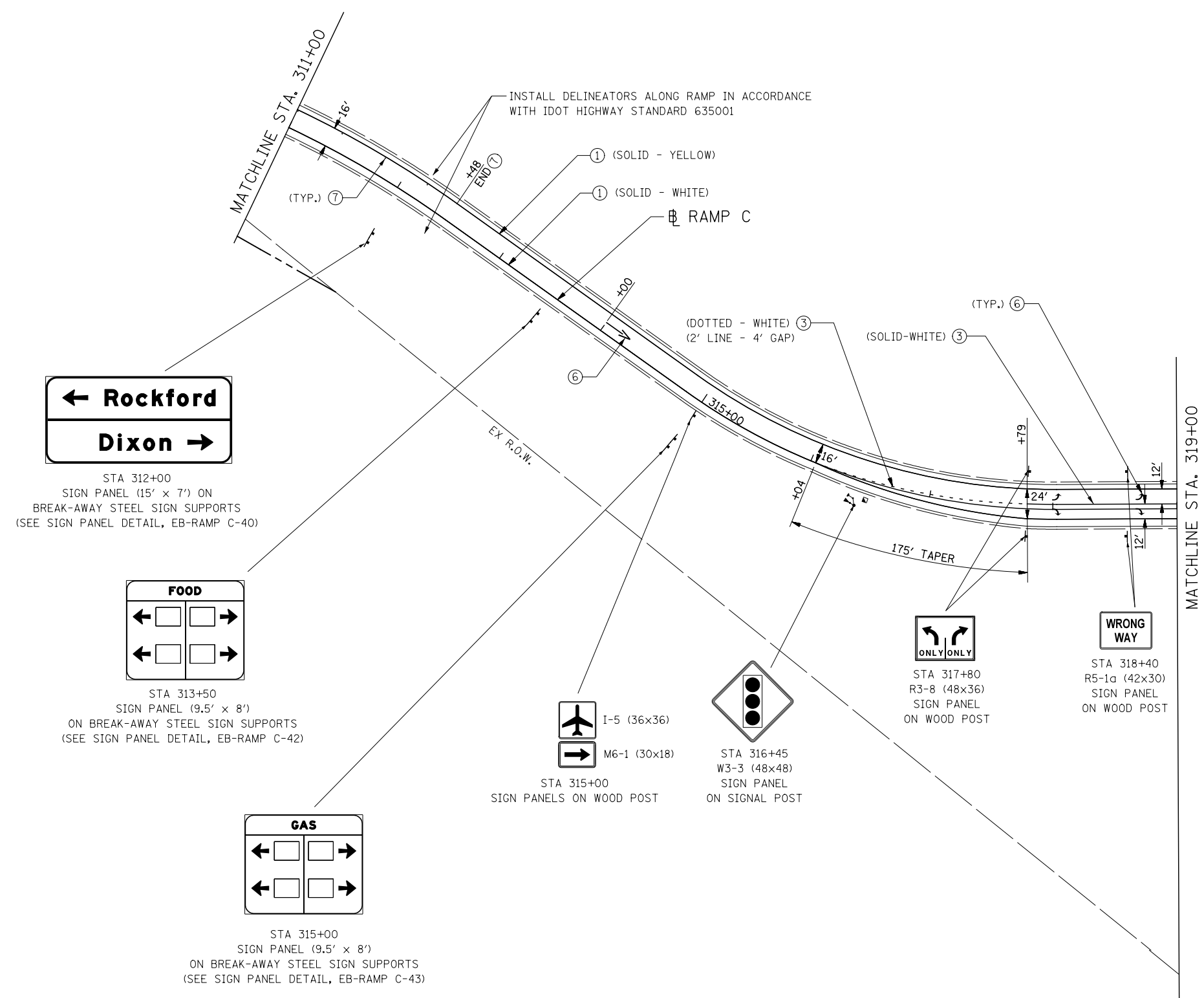
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
742	3HBR	WINNEBAGO	689	423
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 64B87	



**PAVEMENT MARKING LEGEND**

- ① MODIFIED URETHANE PAVEMENT MARKING - LINE 4"
- ② MODIFIED URETHANE PAVEMENT MARKING - LINE 6"
- ③ MODIFIED URETHANE MARKING - LINE 8"
- ④ MODIFIED URETHANE MARKING - LINE 12"
- ⑤ MODIFIED URETHANE PAVEMENT MARKING - LINE 24"
- ⑥ MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS
- ⑦ RAISED REFLECTIVE PAVEMENT MARKER (STD 781001)
- ⑧ SHOULDER RUMBLE STRIP (STD 642001)

NOTE: SEE REMOVAL PLANS FOR SIGNING REMOVALS EXCEPT AS NOTED.



USER NAME = dsiwo	DESIGNED - PMO	REVISED -
	DRAWN - PMO	REVISED -
PLOT SCALE = 1:100	CHECKED - DMS	REVISED -
PLOT DATE = 8/16/2018	DATE - 08-15-2018	REVISED -

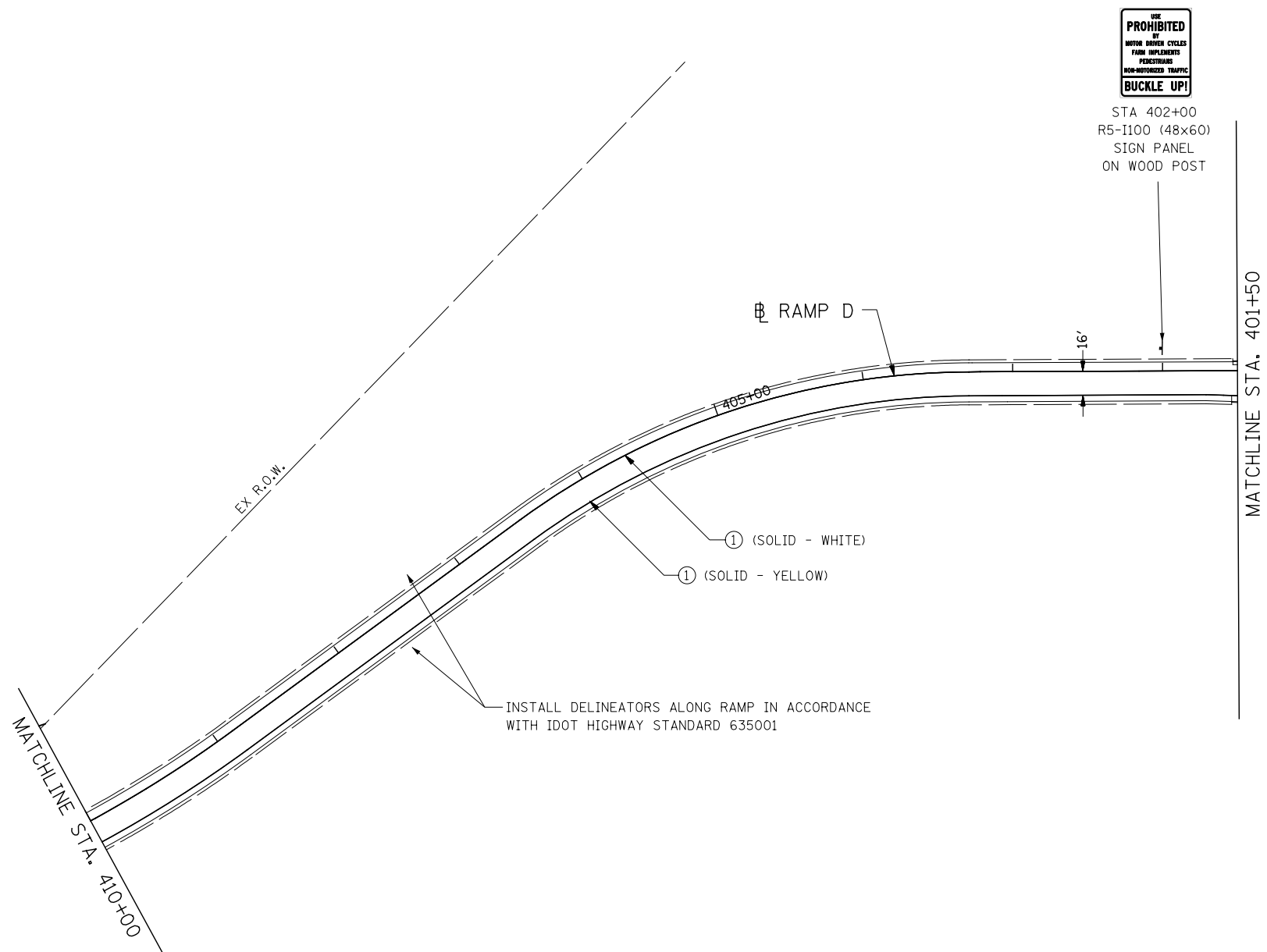
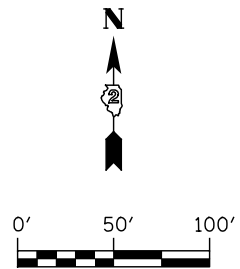
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SIGNING AND PAVEMENT MARKING PLAN  
RAMP C**

SCALE: 1" = 50'    SHEET NO. 1 OF 1 SHEETS    STA. 311+00 TO STA. 319+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
742	3HBR	WINNEBAGO	689	424
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 64B87	





**PAVEMENT MARKING LEGEND**

- ① MODIFIED URETHANE PAVEMENT MARKING - LINE 4"
- ② MODIFIED URETHANE PAVEMENT MARKING - LINE 6"
- ③ MODIFIED URETHANE MARKING - LINE 8"
- ④ MODIFIED URETHANE MARKING - LINE 12"
- ⑤ MODIFIED URETHANE PAVEMENT MARKING - LINE 24"
- ⑥ MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS
- ⑦ RAISED REFLECTIVE PAVEMENT MARKER (STD 781001)
- ⑧ SHOULDER RUMBLE STRIP (STD 642001)

NOTE: SEE REMOVAL PLANS FOR SIGNING REMOVALS EXCEPT AS NOTED.

**KNIGHT**  
Engineers & Architects

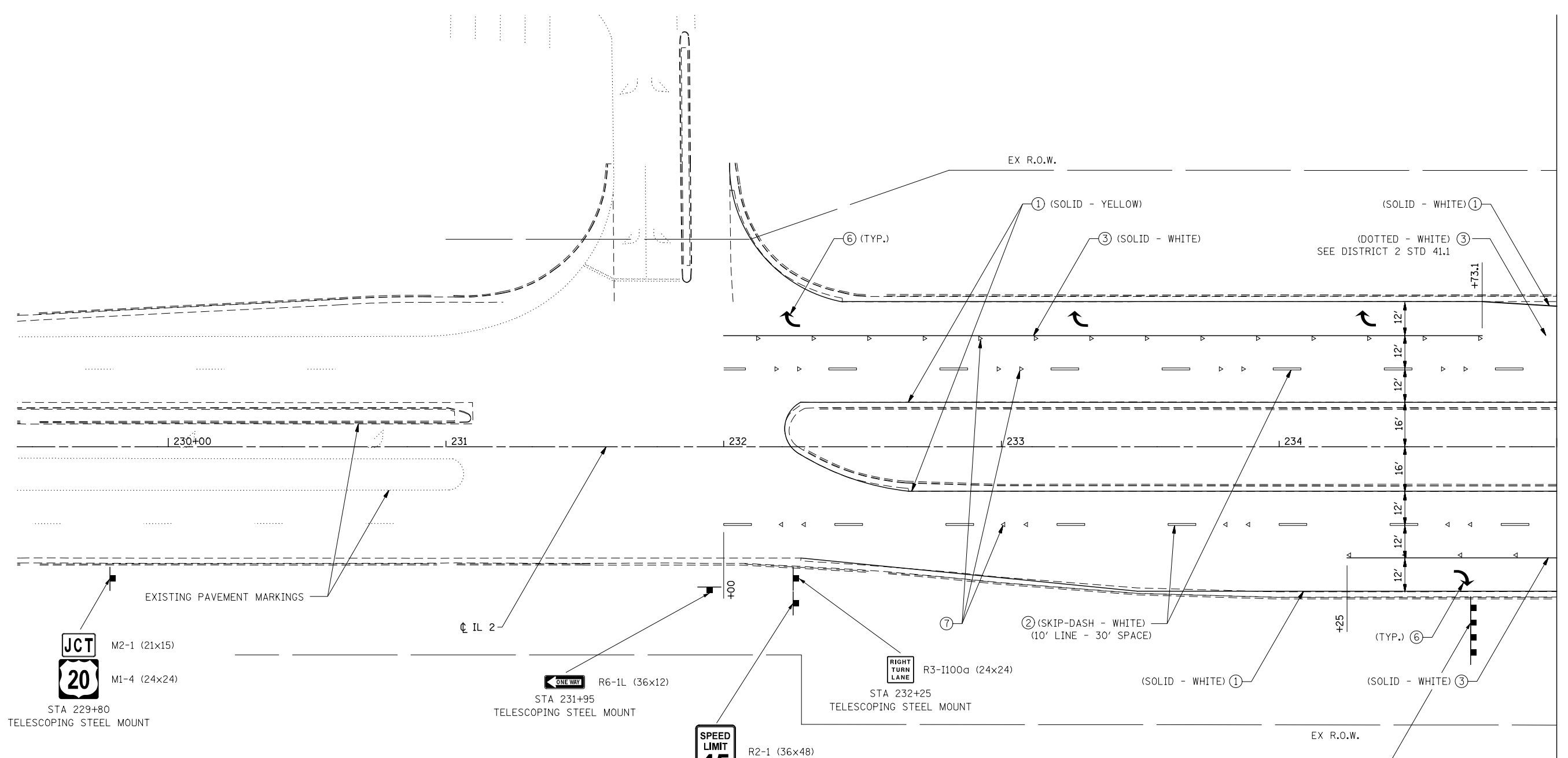
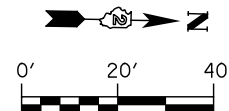
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	DRAWN - PMO	REVISED -
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PLOT DATE = 8/16/2018	DATE - 08-15-2018	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SIGNING AND PAVEMENT MARKING PLAN  
RAMP D**

SCALE: 1" = 50' SHEET NO. 1 OF 1 SHEETS STA. 400+00 TO STA. 410+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
742	3HBR	WINNEBAGO	689	425
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 64B87	



**PAVEMENT MARKING LEGEND**

- ① MODIFIED URETHANE PAVEMENT MARKING - LINE 4"
- ② MODIFIED URETHANE PAVEMENT MARKING - LINE 6"
- ③ MODIFIED URETHANE MARKING - LINE 8"
- ④ MODIFIED URETHANE MARKING - LINE 12"
- ⑤ MODIFIED URETHANE PAVEMENT MARKING - LINE 24"
- ⑥ MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS
- ⑦ RAISED REFLECTIVE PAVEMENT MARKER (STD 781001)
- ⑧ SHOULDER RUMBLE STRIP (STD 642001)

NOTE: SEE REMOVAL PLANS FOR SIGNING REMOVALS EXCEPT AS NOTED.

- WEST** M3-4 (24x12) (WHITE)
- 20** M1-4 (24x24)
- ↑** M6-3 (21x15) (WHITE)
- EAST** M3-2 (24x12) (WHITE)
- 20** M1-4 (24x24)
- M5-1R (21x15) (WHITE)
- TO** M4-5 (24x12) (BLUE)
- 39** M1-1 (24x24)
- M5-1R (21x15) (BLUE)
- TO** M4-5 (24x12) (BLUE)
- TOLL** M4-15 (24x12) (YELLOW)
- 90** M1-1 (24x24)
- M5-1R (21x15) (BLUE)



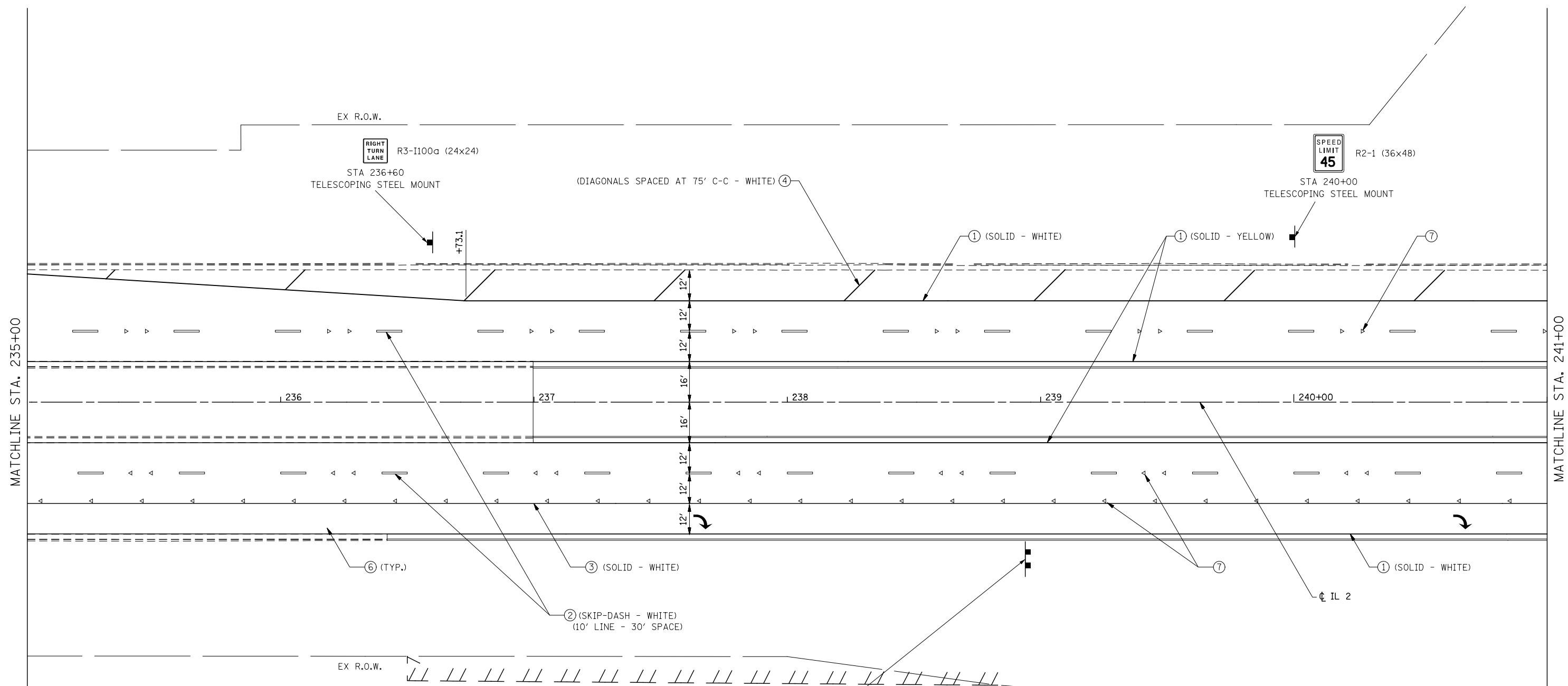
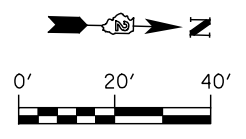
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PLOT DATE = 8/16/2018	DATE - 08-15-2018	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SIGNING AND PAVEMENT MARKING PLAN  
IL ROUTE 2**

SCALE: 1" = 20'    SHEET NO. 1 OF 9 SHEETS    STA. 232+00 TO STA. 235+00

F.A.P. RTE. 742	SECTION 3HBR	COUNTY WINNEBAGO	TOTAL SHEETS 689	SHEET NO. 426
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT	CONTRACT NO. 64B87	



- |  |                     |  |                        |
|--|---------------------|--|------------------------|
|  | M4-5 (24x12) (BLUE) |  | M4-5 (24x12) (BLUE)    |
|  | M1-1 (24x24)        |  | M4-15 (24x12) (YELLOW) |
|  | M6-1 (21x15) (BLUE) |  | M1-1 (24x24)           |
|  |                     |  | M6-1 (21x15) (BLUE)    |

STA 238+95  
TELESCOPING STEEL MOUNT (2)

**PAVEMENT MARKING LEGEND**

- ① MODIFIED URETHANE PAVEMENT MARKING - LINE 4"
- ② MODIFIED URETHANE PAVEMENT MARKING - LINE 6"
- ③ MODIFIED URETHANE MARKING - LINE 8"
- ④ MODIFIED URETHANE MARKING - LINE 12"
- ⑤ MODIFIED URETHANE PAVEMENT MARKING - LINE 24"
- ⑥ MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS
- ⑦ RAISED REFLECTIVE PAVEMENT MARKER (STD 781001)
- ⑧ SHOULDER RUMBLE STRIP (STD 642001)

NOTE: SEE REMOVAL PLANS FOR SIGNING REMOVALS EXCEPT AS NOTED.



USER NAME = dsiwo	DESIGNED - PMO	REVISED -
	DRAWN - PMO	REVISED -
PLOT SCALE = 1:40	CHECKED - DMS	REVISED -
PLOT DATE = 8/16/2018	DATE - 08-15-2018	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SIGNING AND PAVEMENT MARKING PLAN  
IL ROUTE 2**

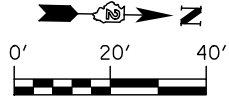
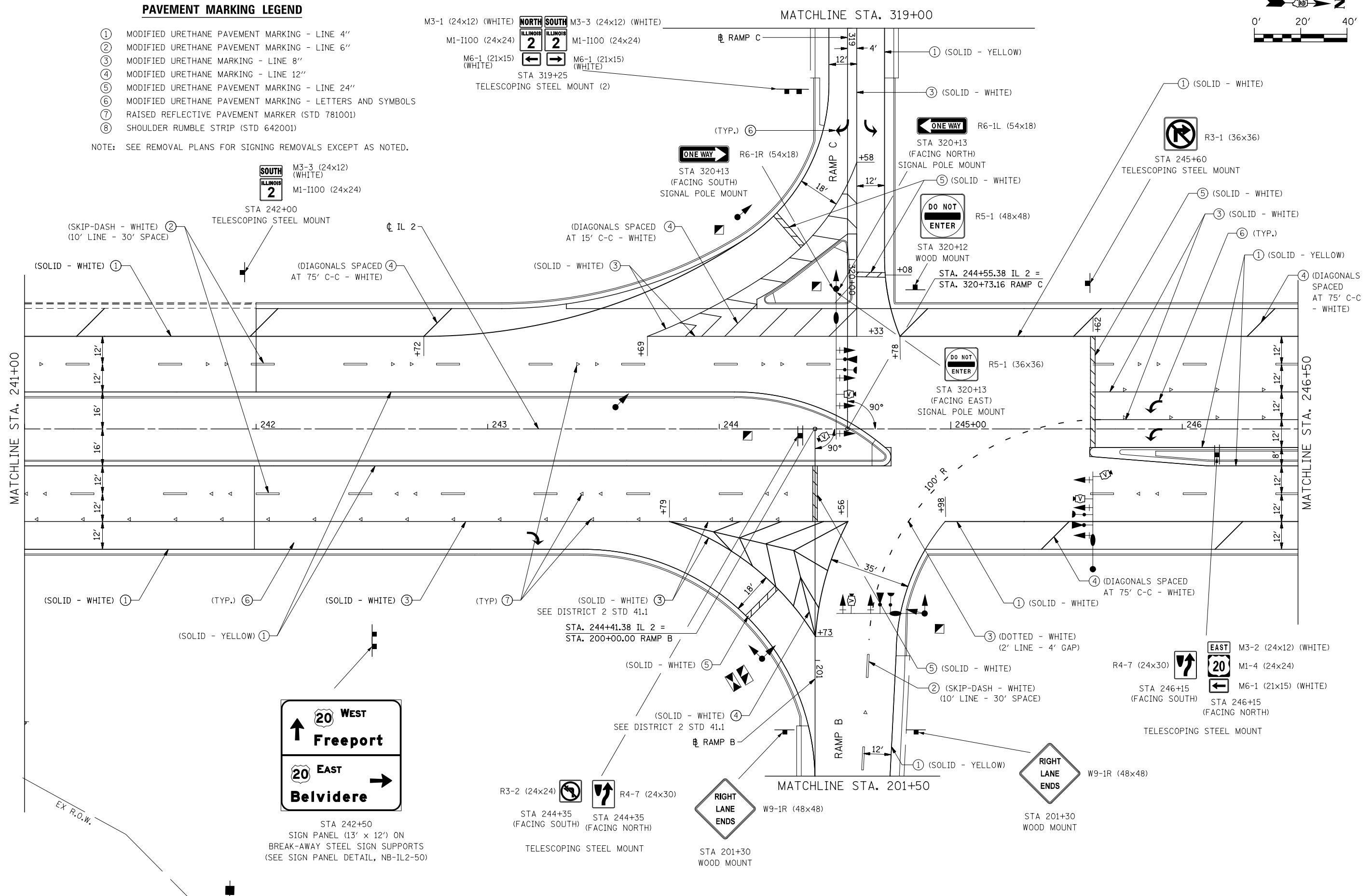
SCALE: 1" = 20' SHEET NO. 2 OF 9 SHEETS STA. 2350+00 TO STA. 241+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
742	3HBR	WINNEBAGO	689	427
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 64B87	

**PAVEMENT MARKING LEGEND**

- ① MODIFIED URETHANE PAVEMENT MARKING - LINE 4"
- ② MODIFIED URETHANE PAVEMENT MARKING - LINE 6"
- ③ MODIFIED URETHANE MARKING - LINE 8"
- ④ MODIFIED URETHANE MARKING - LINE 12"
- ⑤ MODIFIED URETHANE PAVEMENT MARKING - LINE 24"
- ⑥ MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS
- ⑦ RAISED REFLECTIVE PAVEMENT MARKER (STD 781001)
- ⑧ SHOULDER RUMBLE STRIP (STD 642001)

NOTE: SEE REMOVAL PLANS FOR SIGNING REMOVALS EXCEPT AS NOTED.



**KNIGHT**  
Engineers & Architects

USER NAME = dsilwo	DESIGNED - PMO	REVISED -
	DRAWN - PMO	REVISED -
PLOT SCALE = 1:40	CHECKED - DMS	REVISED -
PLOT DATE = 8/16/2018	DATE - 08-15-2018	REVISED -

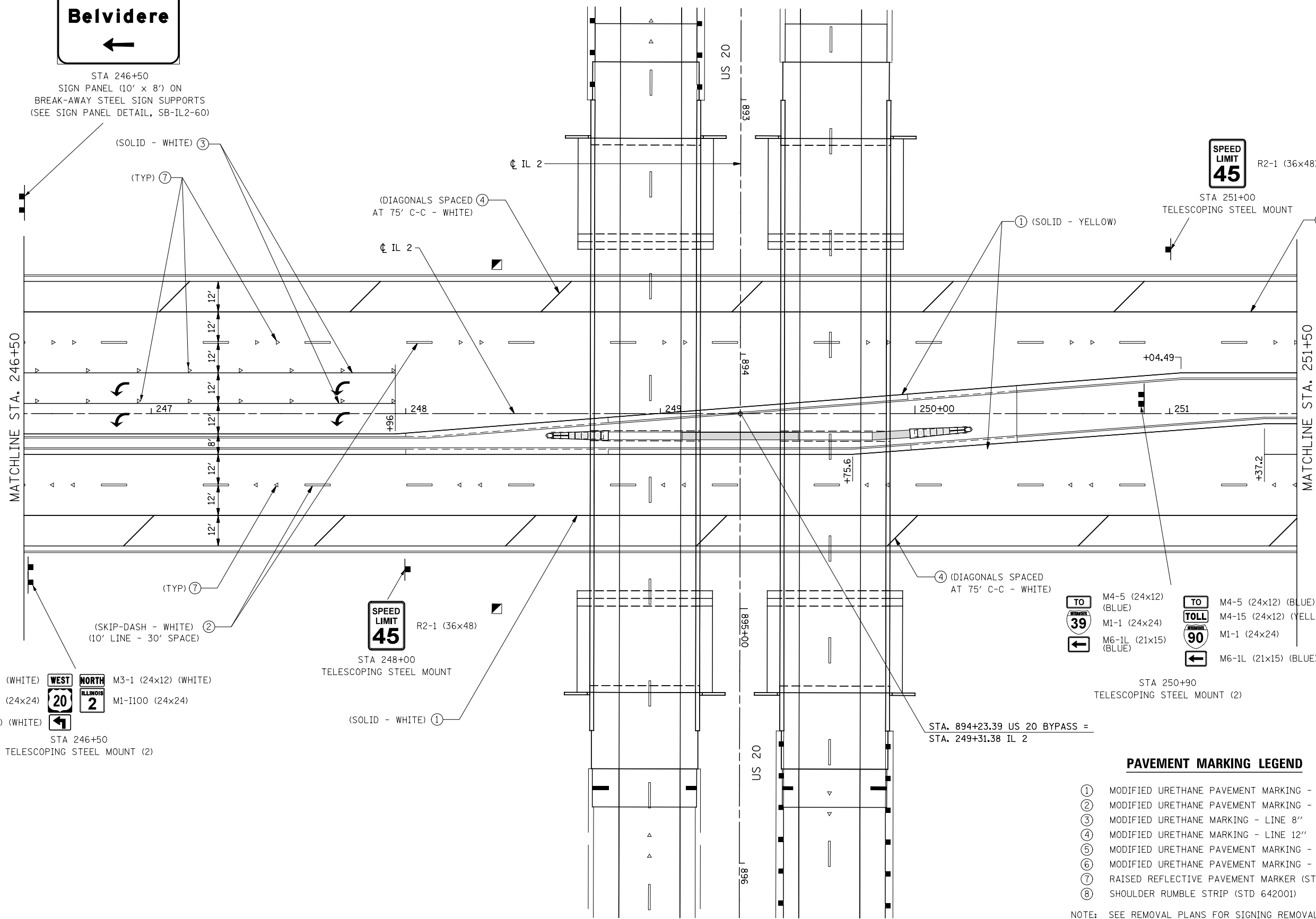
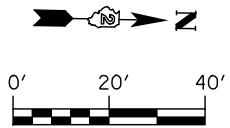
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**SIGNING AND PAVEMENT MARKING PLANS**  
**IL ROUTE 2**  
SCALE: 1" = 20' SHEET NO. 3 OF 9 SHEETS STA. 241+00 TO STA. 246+50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
742	3HBR	WINNEBAGO	689	428
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT	CONTRACT NO. 64B87	



STA 246+50  
SIGN PANEL (10' x 8') ON  
BREAK-AWAY STEEL SIGN SUPPORTS  
(SEE SIGN PANEL DETAIL, SB-IL2-60)



M3-4 (24x12) (WHITE) WEST NORTH M3-1 (24x12) (WHITE)  
M1-4 (24x24) 20 ILLINOIS 2 M1-I100 (24x24)  
M5-1L (21x15) (WHITE) 1  
STA 246+50  
TELESCOPING STEEL MOUNT (2)

(SKIP-DASH - WHITE) (10' LINE - 30' SPACE) 2  
SPEED LIMIT 45 R2-1 (36x48)  
STA 248+00  
TELESCOPING STEEL MOUNT  
(SOLID - WHITE) 1

TO M4-5 (24x12) (BLUE)  
M1-1 (24x24)  
M6-1L (21x15) (BLUE)  
TO M4-5 (24x12) (BLUE)  
TOLL M4-15 (24x12) (YELLOW)  
M1-1 (24x24)  
M6-1L (21x15) (BLUE)  
90  
1

STA 250+90  
TELESCOPING STEEL MOUNT (2)

STA. 894+23.39 US 20 BYPASS =  
STA. 249+31.38 IL 2

**PAVEMENT MARKING LEGEND**

- ① MODIFIED URETHANE PAVEMENT MARKING - LINE 4"
- ② MODIFIED URETHANE PAVEMENT MARKING - LINE 6"
- ③ MODIFIED URETHANE MARKING - LINE 8"
- ④ MODIFIED URETHANE MARKING - LINE 12"
- ⑤ MODIFIED URETHANE PAVEMENT MARKING - LINE 24"
- ⑥ MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS
- ⑦ RAISED REFLECTIVE PAVEMENT MARKER (STD 781001)
- ⑧ SHOULDER RUMBLE STRIP (STD 642001)

NOTE: SEE REMOVAL PLANS FOR SIGNING REMOVALS EXCEPT AS NOTED.

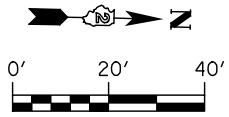
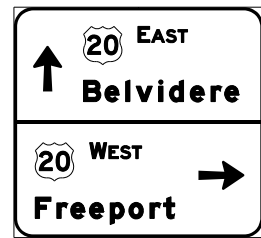


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PLOT SCALE = 1:40	CHECKED - DMS	REVISED -
PLOT DATE = 8/16/2018	DATE - 08-15-2018	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**SIGNING AND PAVEMENT MARKING PLAN**  
**IL ROUTE 2**  
SCALE: 1" = 20' SHEET NO. 4 OF 9 SHEETS STA. 246+50 TO STA. 251+50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
742	3HBR	WINNEBAGO	689	429
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 64B87	

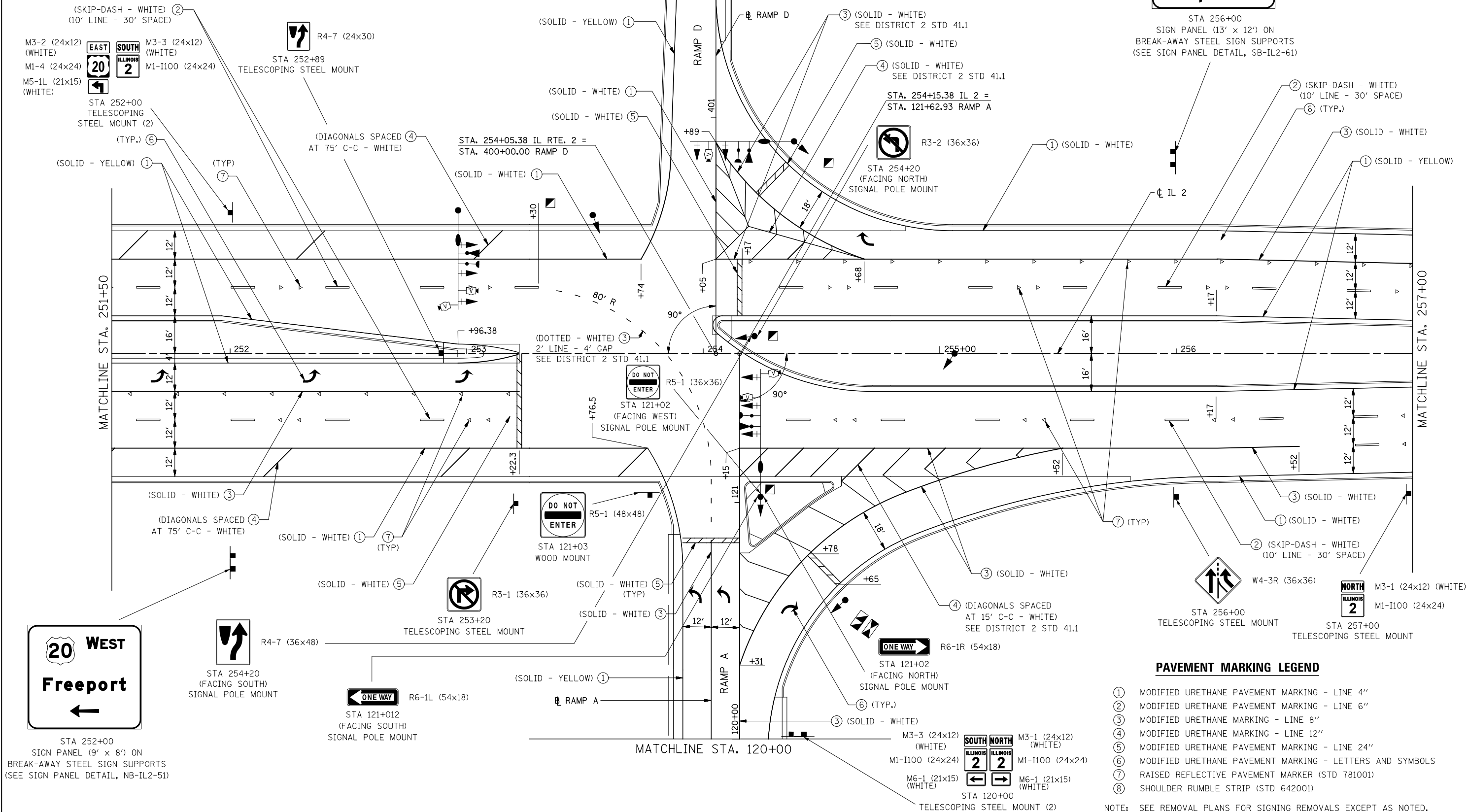


MATCHLINE STA. 401+50

MATCHLINE STA. 251+50

MATCHLINE STA. 257+00

MATCHLINE STA. 120+00



**PAVEMENT MARKING LEGEND**

- ① MODIFIED URETHANE PAVEMENT MARKING - LINE 4"
- ② MODIFIED URETHANE PAVEMENT MARKING - LINE 6"
- ③ MODIFIED URETHANE MARKING - LINE 8"
- ④ MODIFIED URETHANE MARKING - LINE 12"
- ⑤ MODIFIED URETHANE PAVEMENT MARKING - LINE 24"
- ⑥ MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS
- ⑦ RAISED REFLECTIVE PAVEMENT MARKER (STD 781001)
- ⑧ SHOULDER RUMBLE STRIP (STD 642001)

NOTE: SEE REMOVAL PLANS FOR SIGNING REMOVALS EXCEPT AS NOTED.



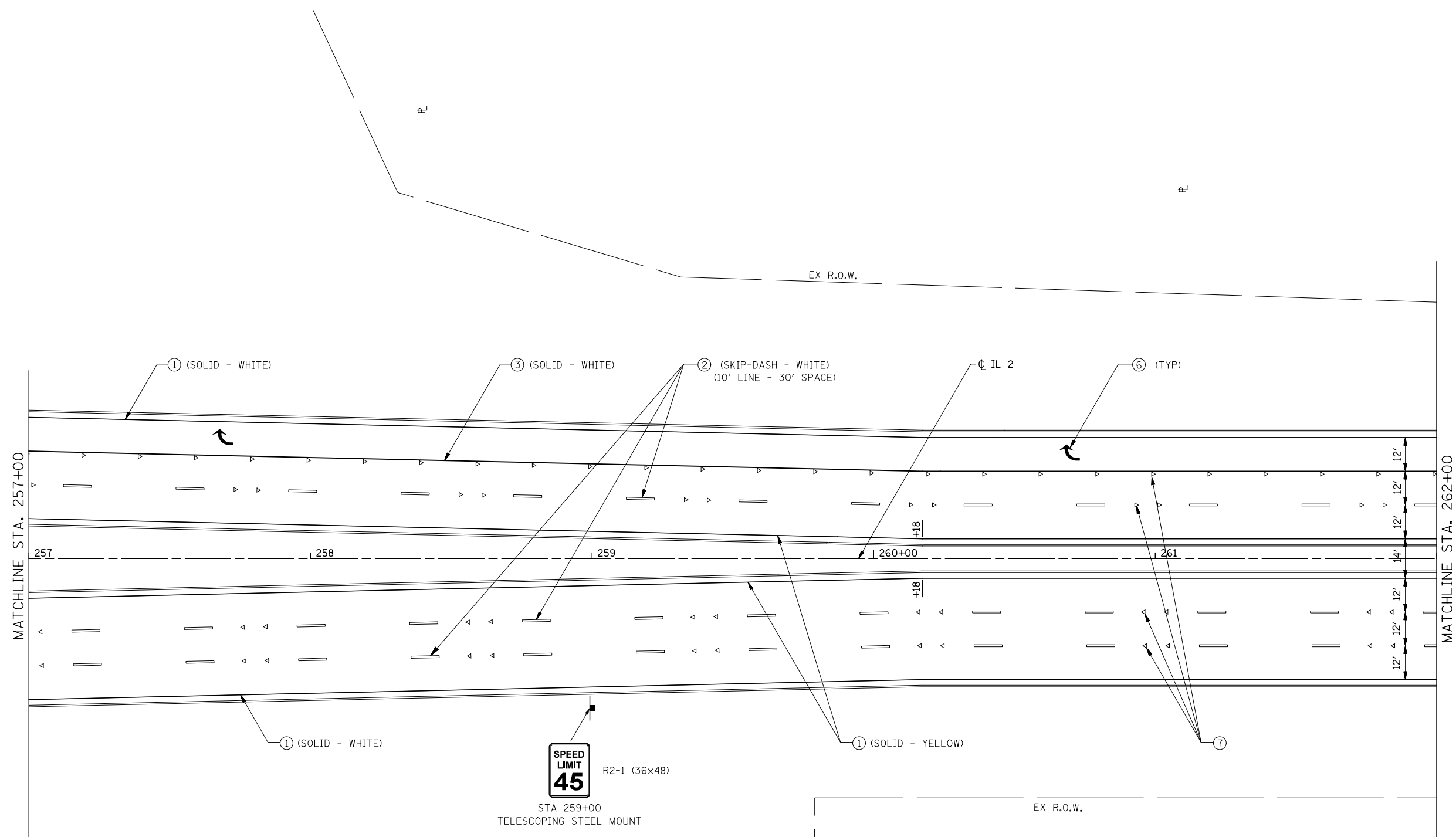
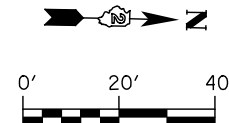
USER NAME = dsilwo	DESIGNED - PMO	REVISED -
PLOT SCALE = 1:40	DRAWN - PMO	REVISED -
PLOT DATE = 8/16/2018	CHECKED - DMS	REVISED -
	DATE - 08-15-2018	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

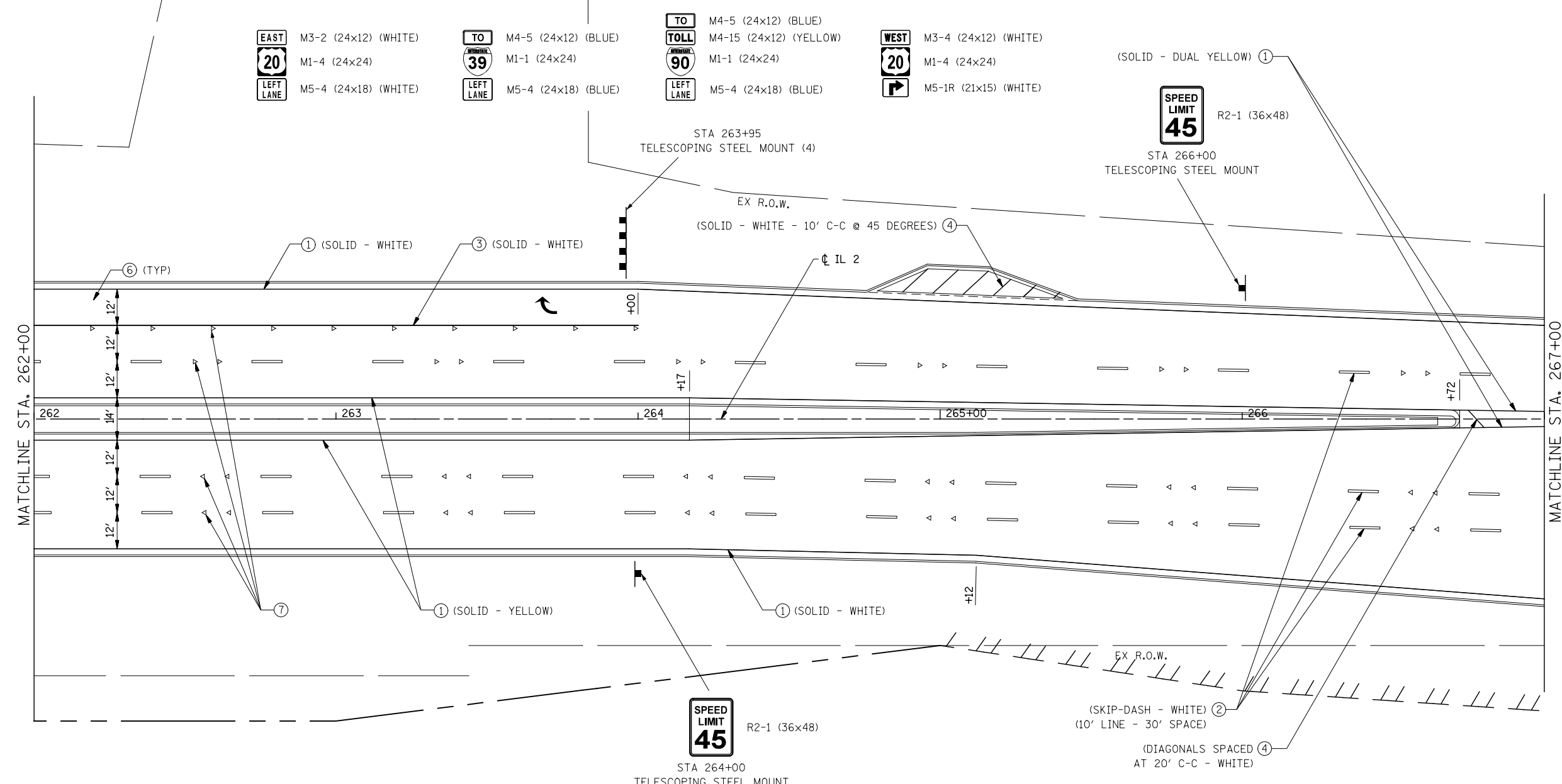
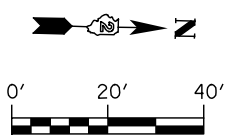
**SIGNING AND PAVEMENT MARKING PLAN  
IL ROUTE 2**

SCALE: 1" = 20' SHEET NO. 5 OF 9 SHEETS STA. 251+50 TO STA. 257+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
742	3HBR	WINNEBAGO	689	430
CONTRACT NO. 64B87				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



- PAVEMENT MARKING LEGEND**
- ① MODIFIED URETHANE PAVEMENT MARKING - LINE 4"
  - ② MODIFIED URETHANE PAVEMENT MARKING - LINE 6"
  - ③ MODIFIED URETHANE MARKING - LINE 8"
  - ④ MODIFIED URETHANE MARKING - LINE 12"
  - ⑤ MODIFIED URETHANE PAVEMENT MARKING - LINE 24"
  - ⑥ MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS
  - ⑦ RAISED REFLECTIVE PAVEMENT MARKER (STD 781001)
  - ⑧ SHOULDER RUMBLE STRIP (STD 642001)
- NOTE: SEE REMOVAL PLANS FOR SIGNING REMOVALS EXCEPT AS NOTED.



**PAVEMENT MARKING LEGEND**

- ① MODIFIED URETHANE PAVEMENT MARKING - LINE 4"
- ② MODIFIED URETHANE PAVEMENT MARKING - LINE 6"
- ③ MODIFIED URETHANE MARKING - LINE 8"
- ④ MODIFIED URETHANE MARKING - LINE 12"
- ⑤ MODIFIED URETHANE PAVEMENT MARKING - LINE 24"
- ⑥ MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS
- ⑦ RAISED REFLECTIVE PAVEMENT MARKER (STD 781001)
- ⑧ SHOULDER RUMBLE STRIP (STD 642001)

NOTE: SEE REMOVAL PLANS FOR SIGNING REMOVALS EXCEPT AS NOTED.



USER NAME = dsilwo	DESIGNED - PMO	REVISED -
	DRAWN - PMO	REVISED -
PLOT SCALE = 1:40	CHECKED - DMS	REVISED -
PLOT DATE = 8/16/2018	DATE - 08-15-2018	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

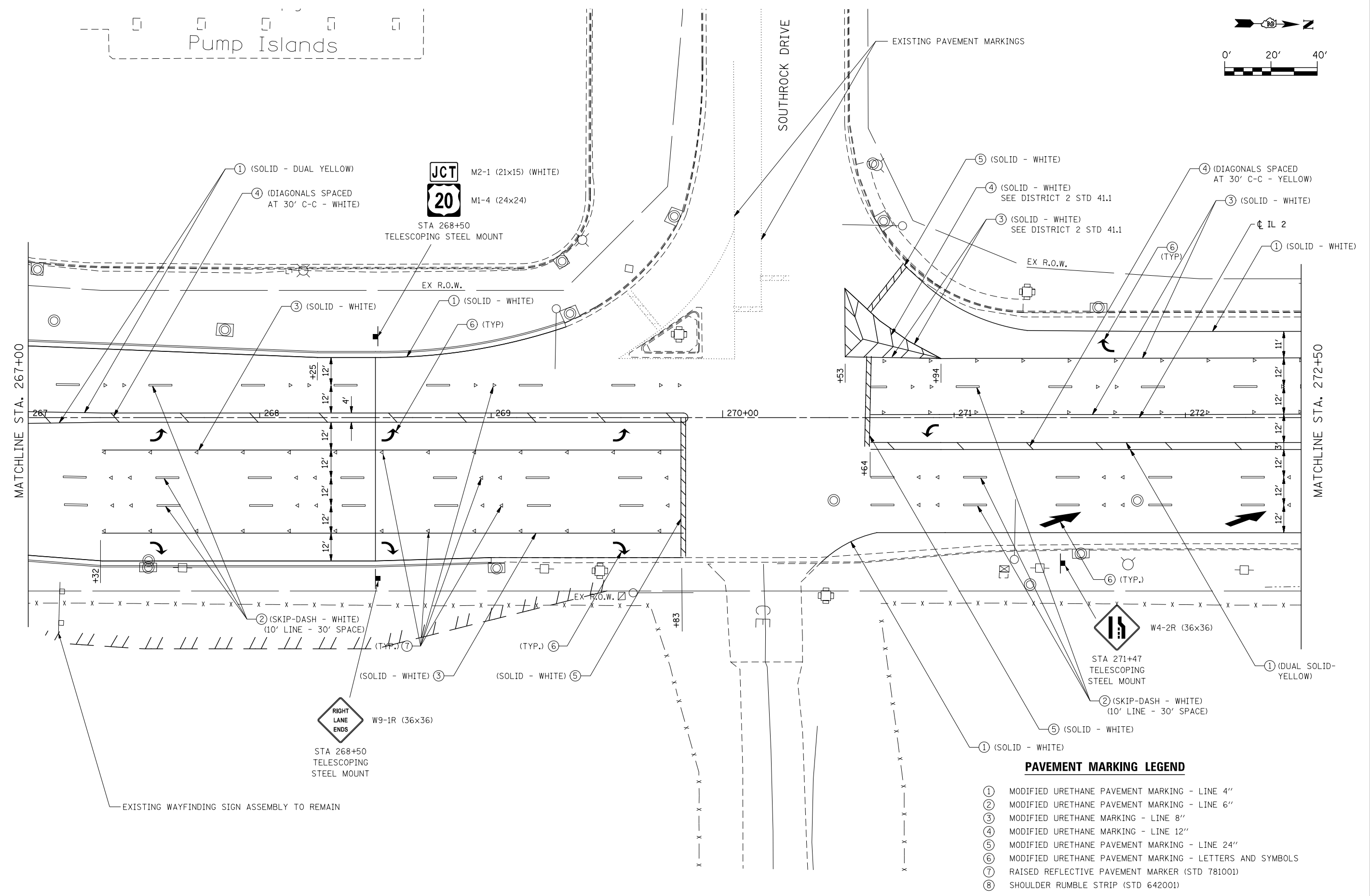
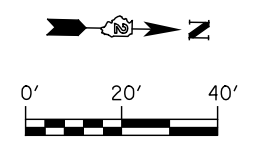
**SIGNING AND PAVEMENT MARKING PLAN  
IL ROUTE 2**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
742	3HBR	WINNEBAGO	689	432
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	

SCALE: 1" = 20' SHEET NO. 7 OF 9 SHEETS STA. 262+00 TO STA. 267+00



Pump Islands



**PAVEMENT MARKING LEGEND**

- ① MODIFIED URETHANE PAVEMENT MARKING - LINE 4"
- ② MODIFIED URETHANE PAVEMENT MARKING - LINE 6"
- ③ MODIFIED URETHANE MARKING - LINE 8"
- ④ MODIFIED URETHANE MARKING - LINE 12"
- ⑤ MODIFIED URETHANE PAVEMENT MARKING - LINE 24"
- ⑥ MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS
- ⑦ RAISED REFLECTIVE PAVEMENT MARKER (STD 781001)
- ⑧ SHOULDER RUMBLE STRIP (STD 642001)

NOTE: SEE REMOVAL PLANS FOR SIGNING REMOVALS EXCEPT AS NOTED.



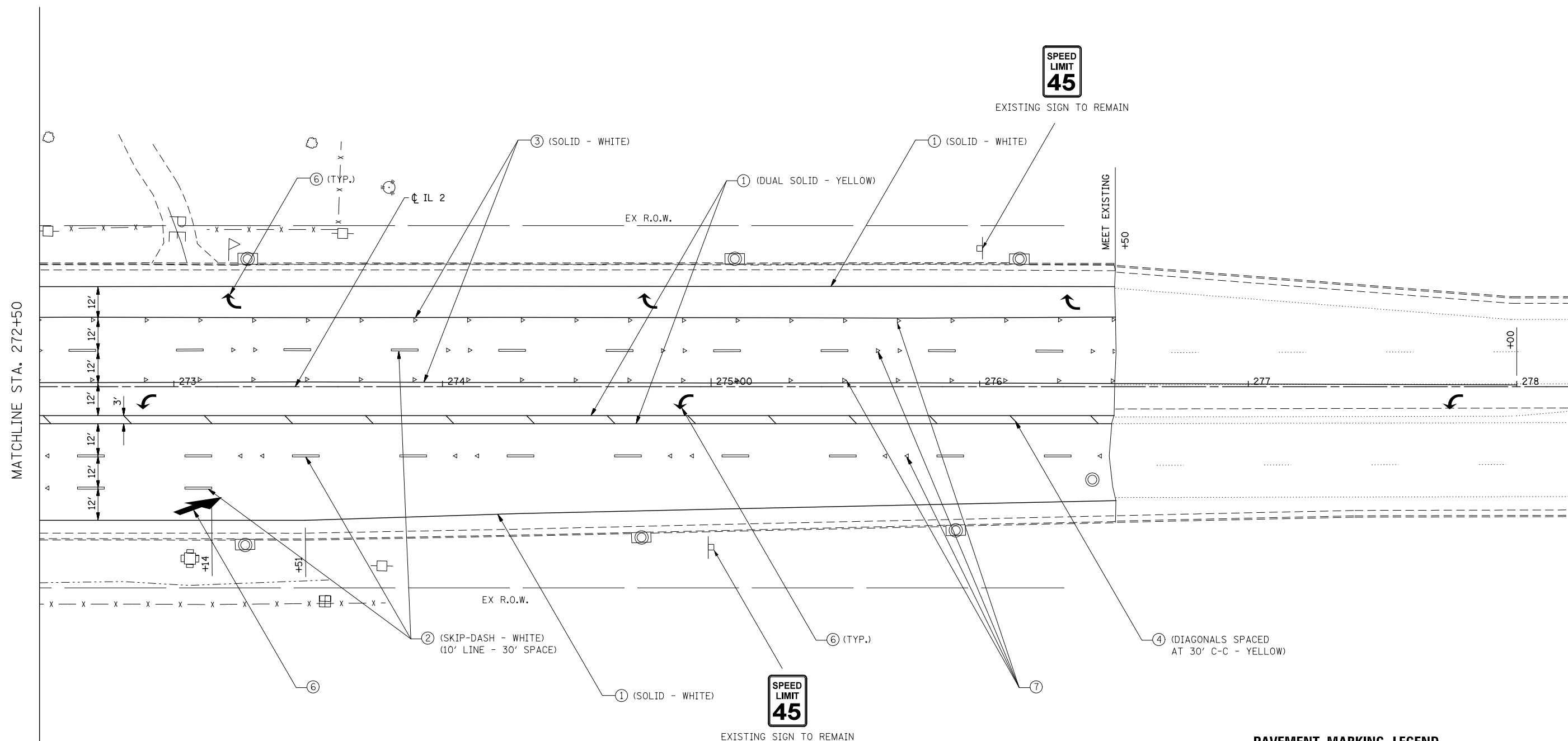
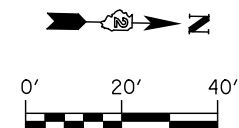
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PLOT SCALE = 1:40	DRAWN - PMO	REVISED -
PLOT DATE = 8/16/2018	CHECKED - DMS	REVISED -
	DATE - 08-15-2018	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SIGNING AND PAVEMENT MARKING PLAN  
IL ROUTE 2**

SCALE: 1" = 20' SHEET NO. 8 OF 9 SHEETS STA. 267+00 TO STA. 272+50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
742	3HBR	WINNEBAGO	689	433
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 64B87	



**PAVEMENT MARKING LEGEND**

- ① MODIFIED URETHANE PAVEMENT MARKING - LINE 4"
- ② MODIFIED URETHANE PAVEMENT MARKING - LINE 6"
- ③ MODIFIED URETHANE MARKING - LINE 8"
- ④ MODIFIED URETHANE MARKING - LINE 12"
- ⑤ MODIFIED URETHANE PAVEMENT MARKING - LINE 24"
- ⑥ MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS
- ⑦ RAISED REFLECTIVE PAVEMENT MARKER (STD 781001)
- ⑧ SHOULDER RUMBLE STRIP (STD 642001)

NOTE: SEE REMOVAL PLANS FOR SIGNING REMOVALS EXCEPT AS NOTED.



USER NAME = dsiwo	DESIGNED - PMO	REVISED -
	DRAWN - PMO	REVISED -
PLOT SCALE = 1:40	CHECKED - DMS	REVISED -
PLOT DATE = 8/16/2018	DATE - 08-15-2018	REVISED -

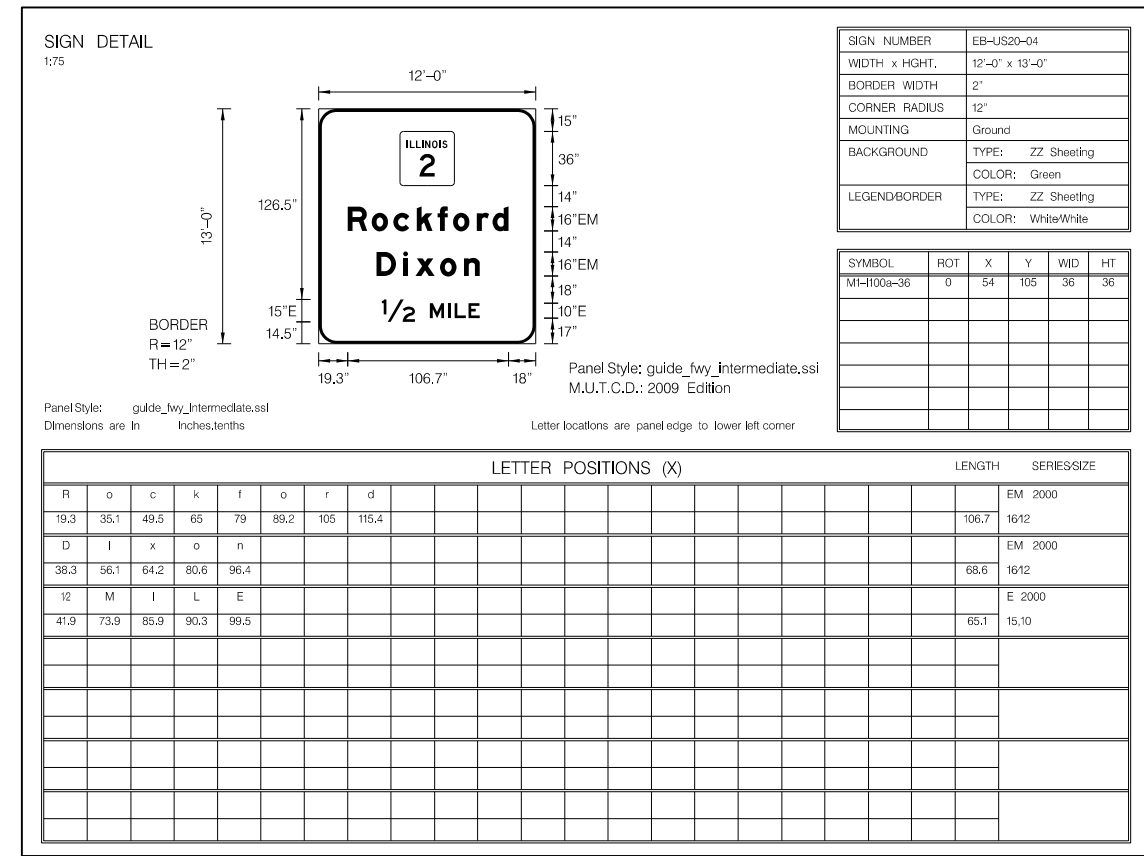
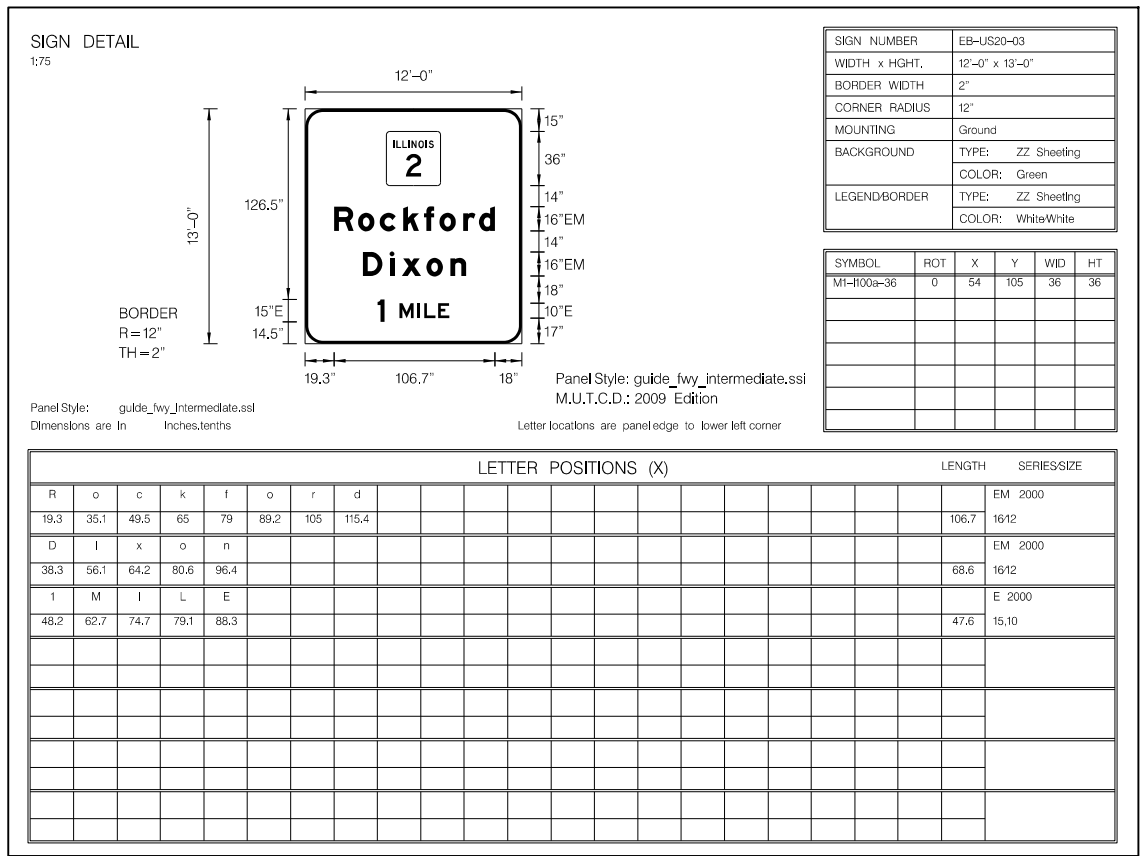
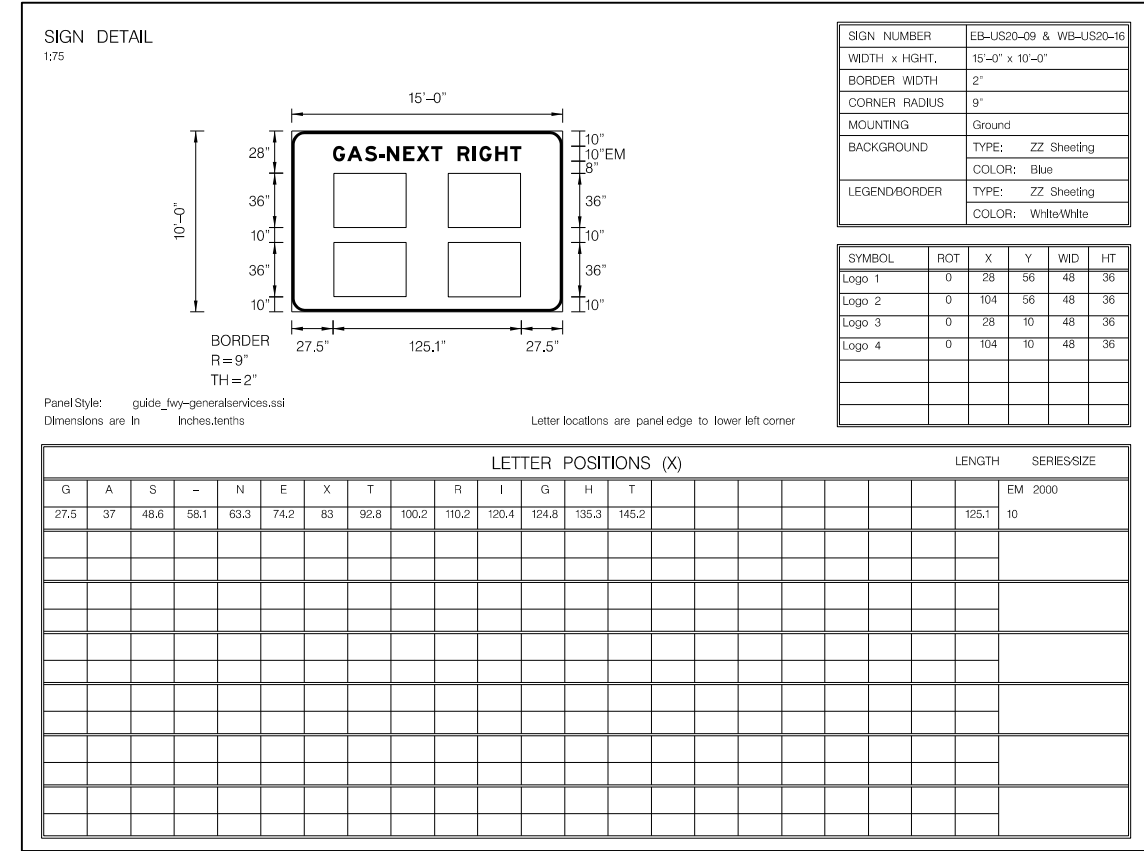
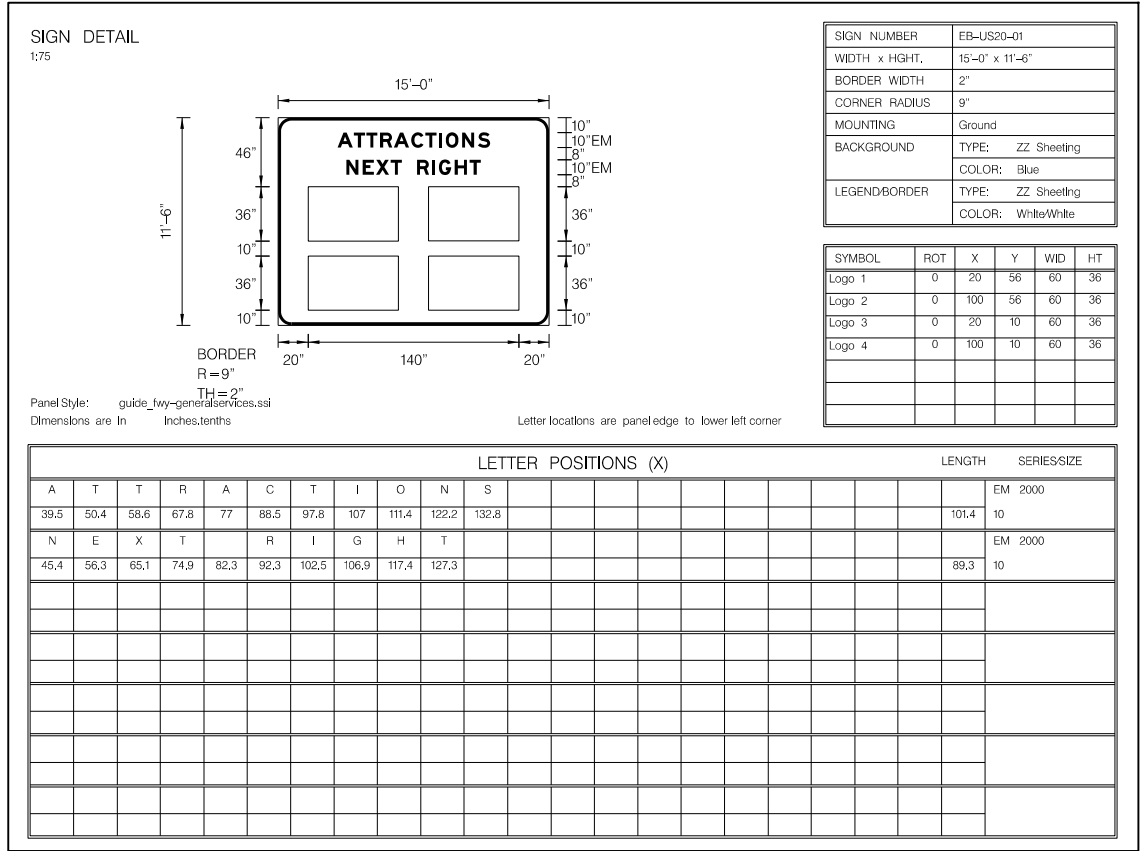
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

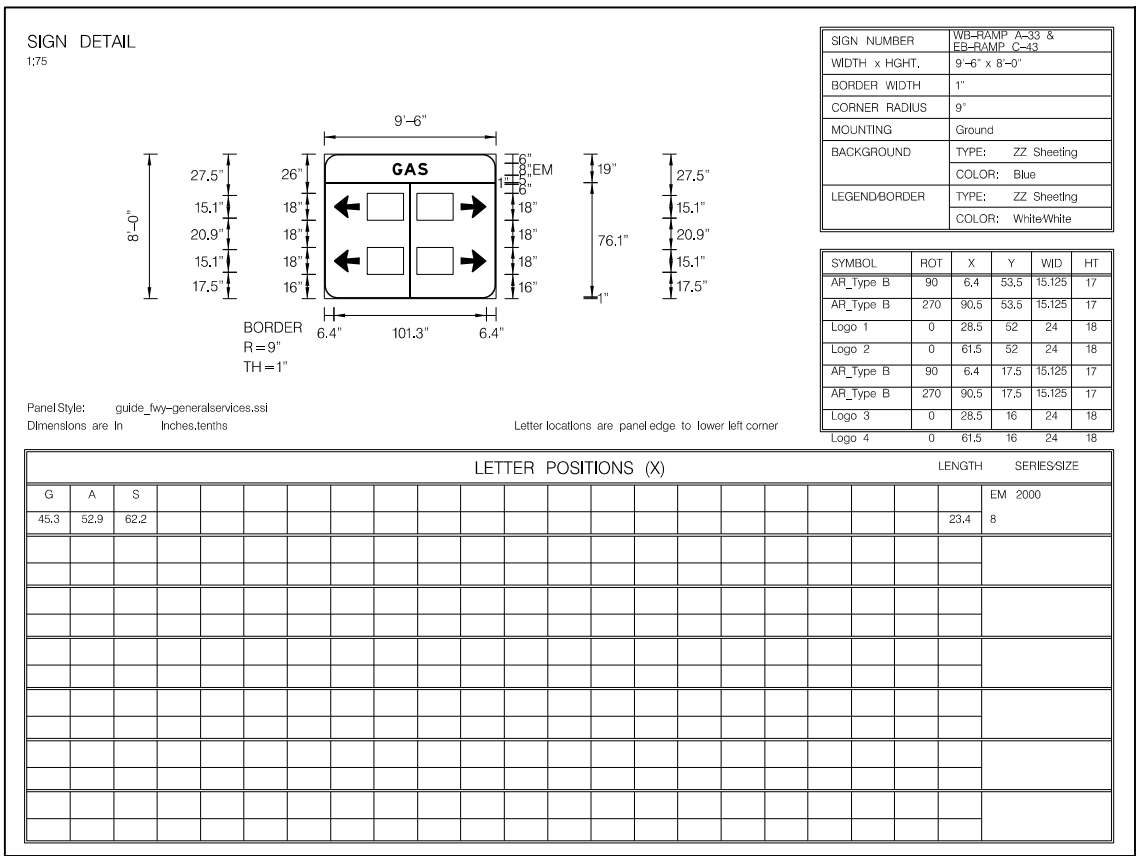
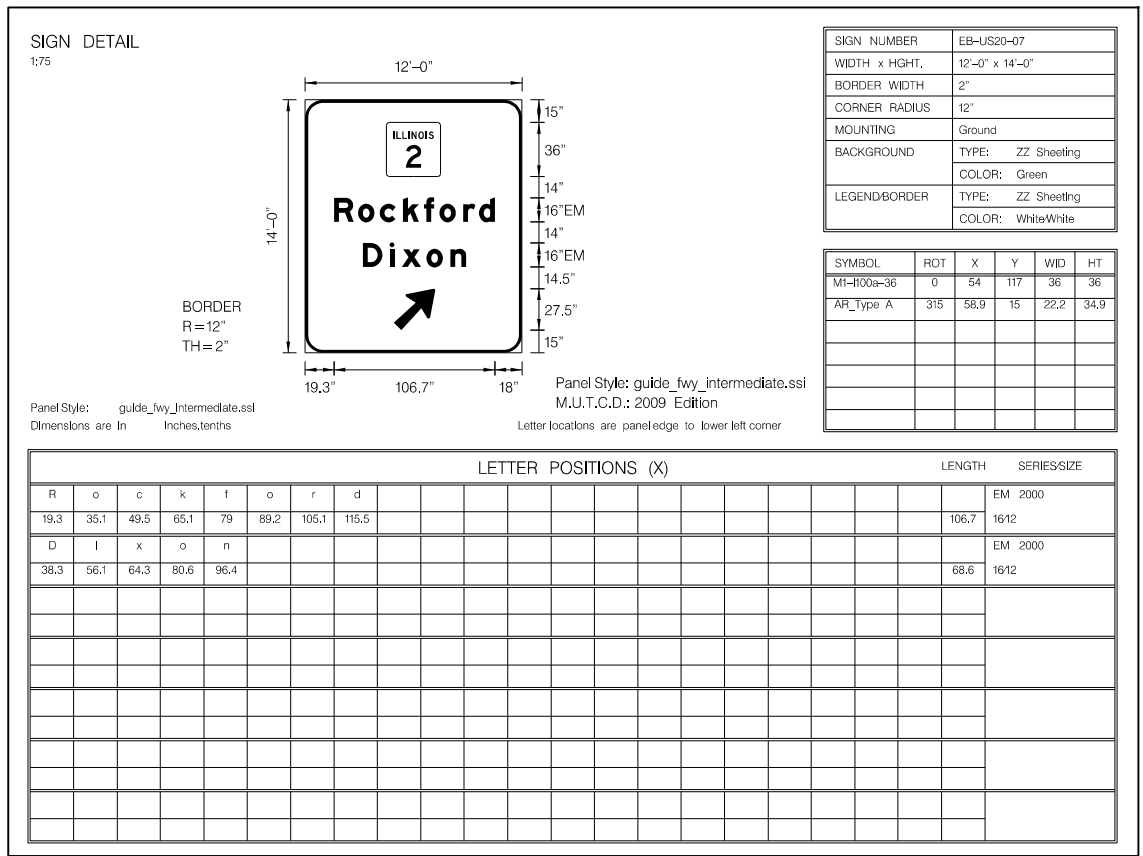
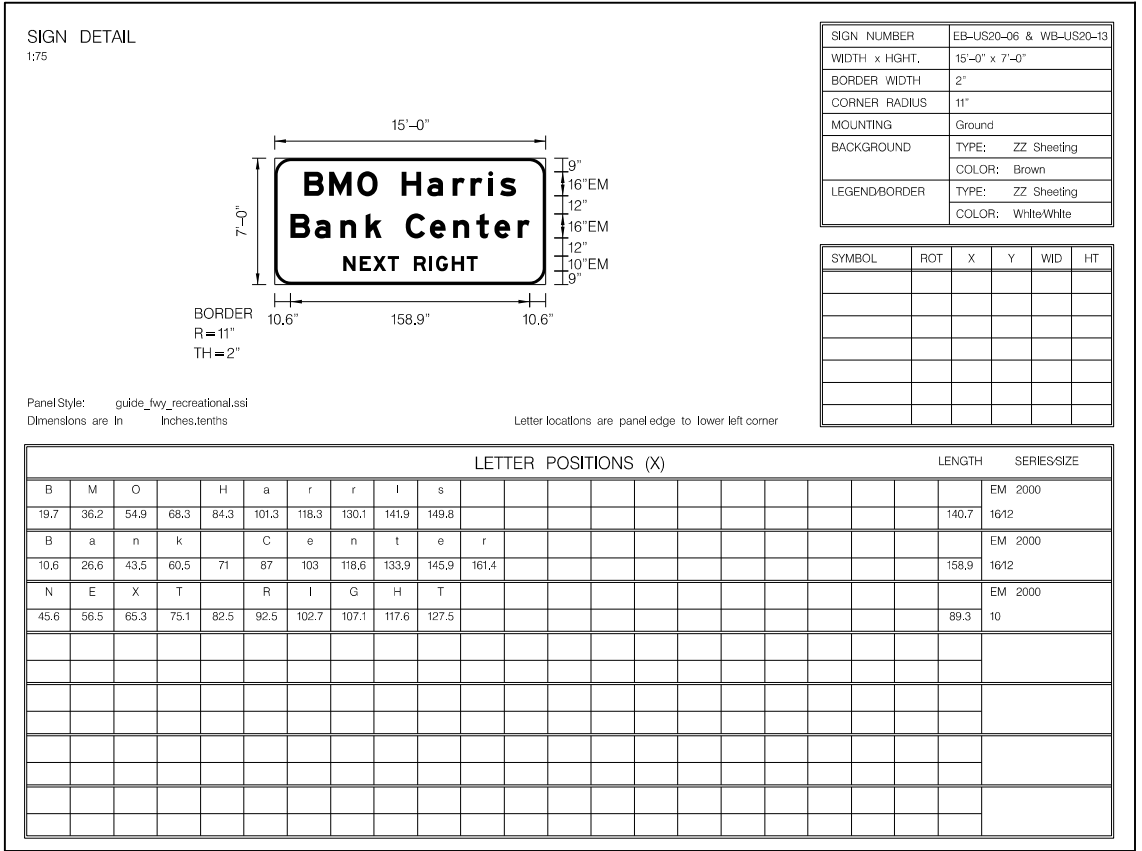
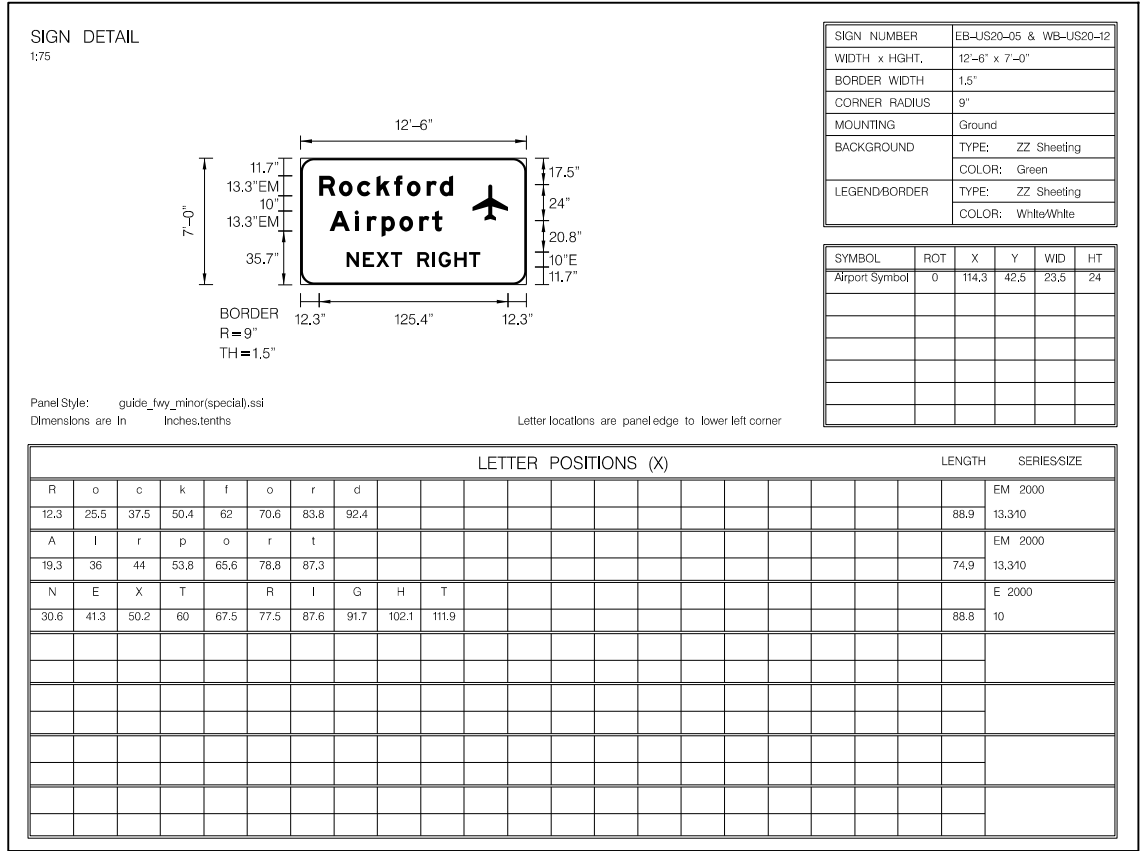
**SIGNING AND PAVEMENT MARKING PLAN  
IL ROUTE 2**

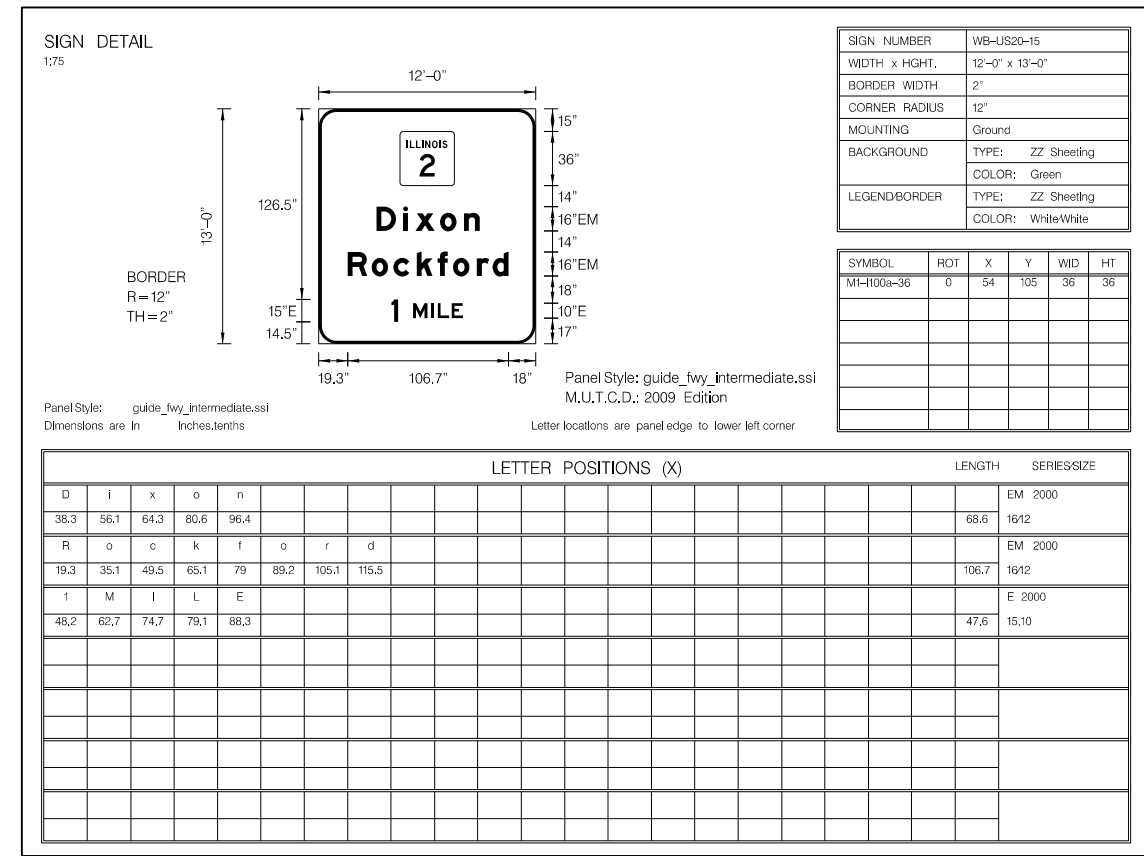
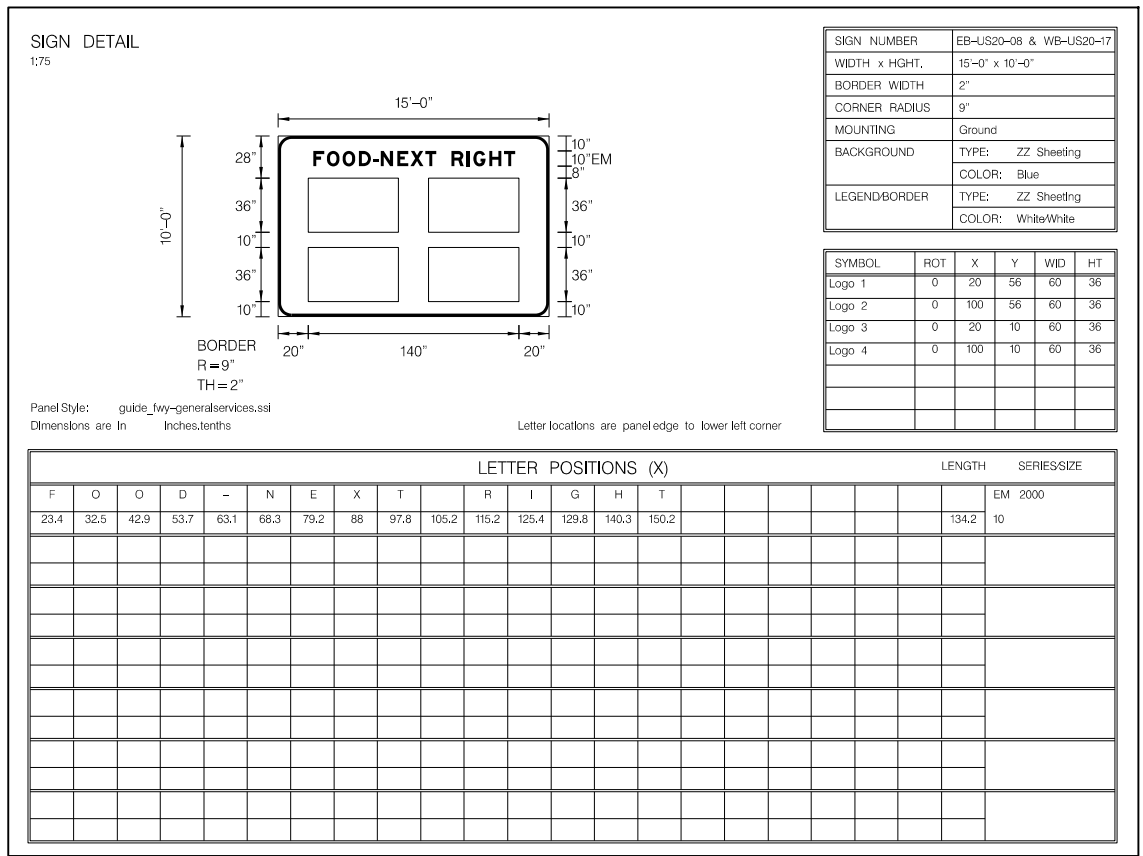
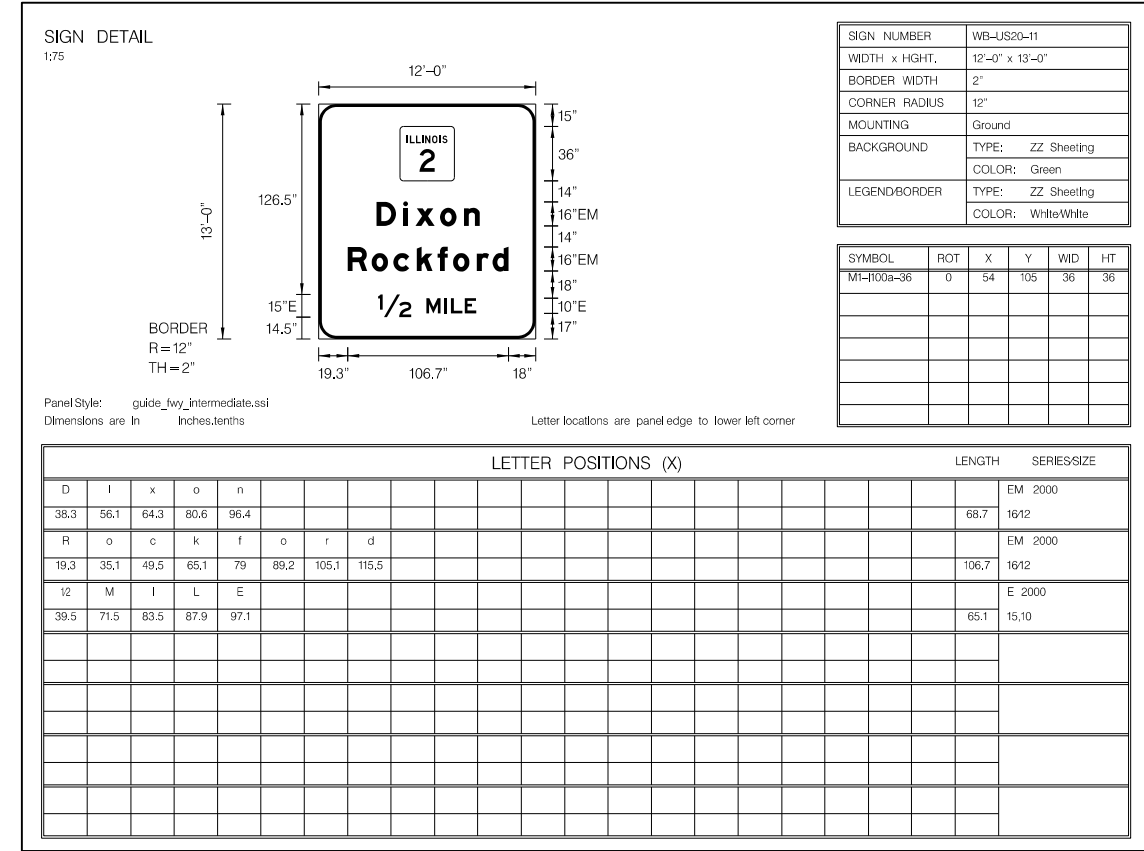
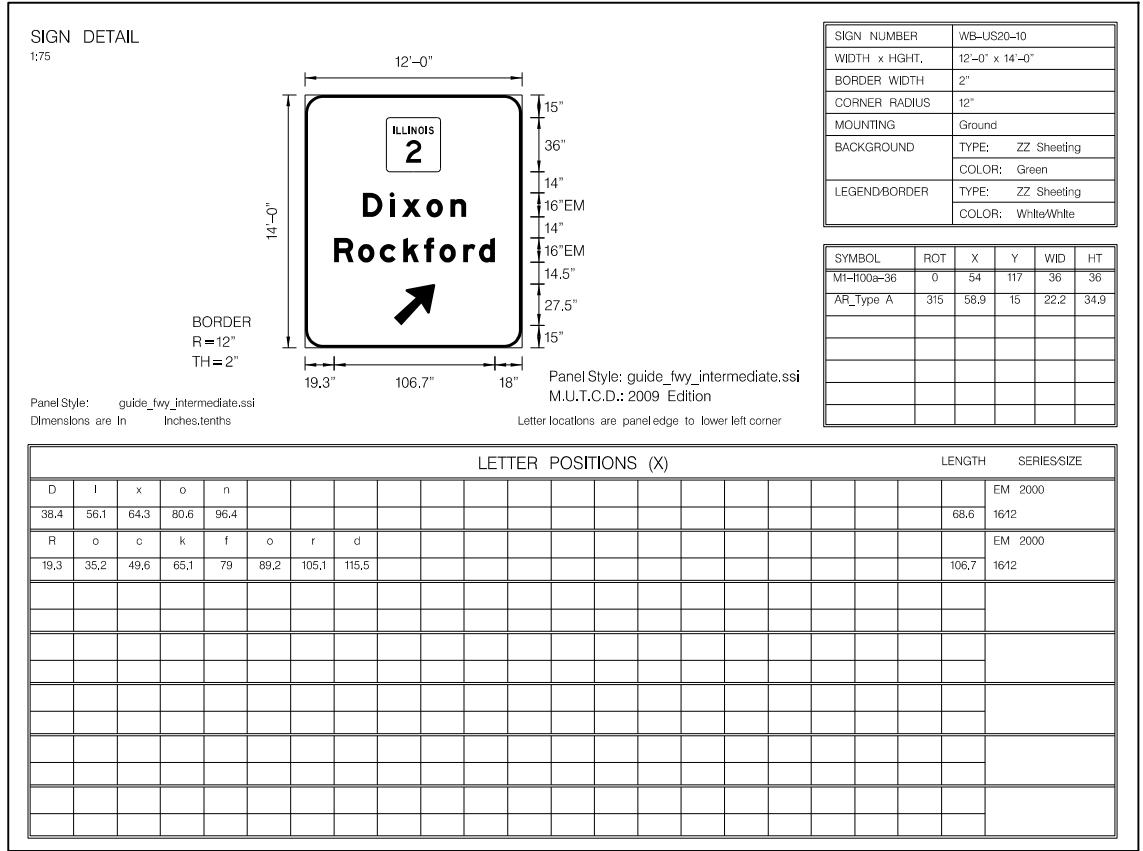
SCALE: 1" = 20' SHEET NO. 9 OF 9 SHEETS STA. 272+50 TO STA. 276+50

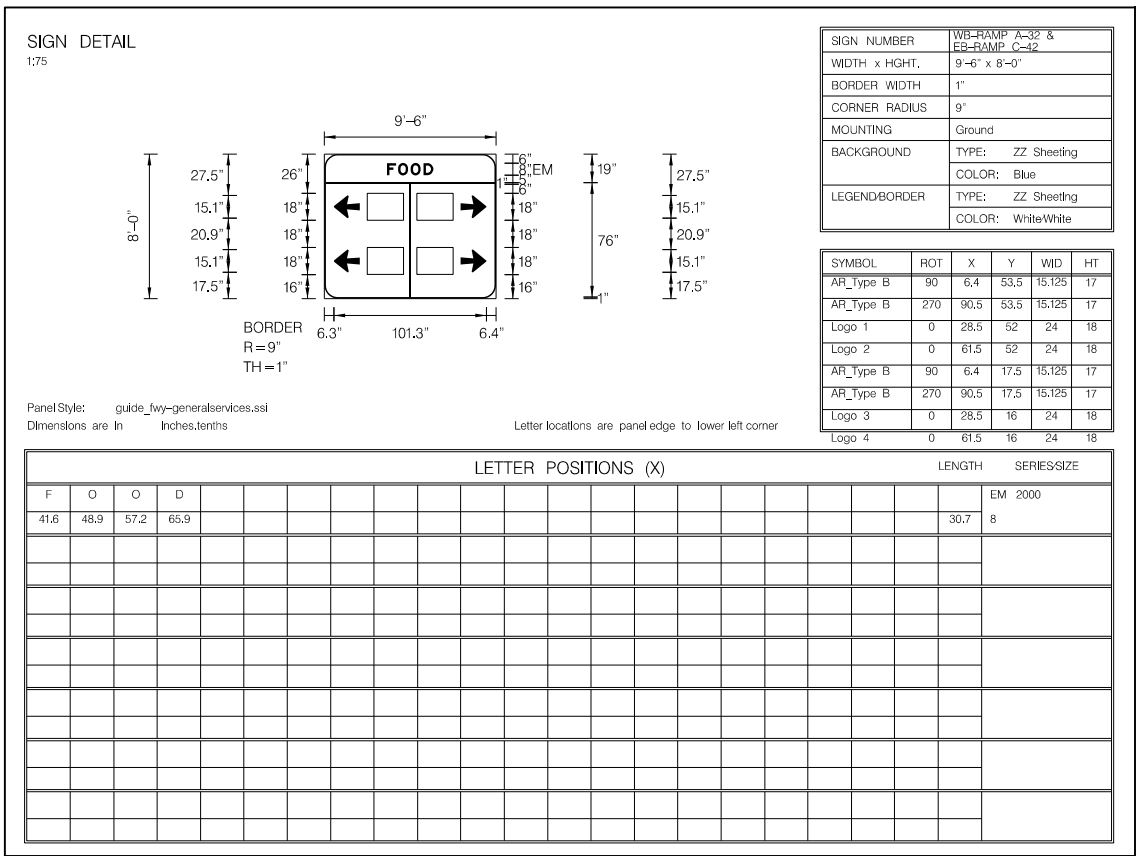
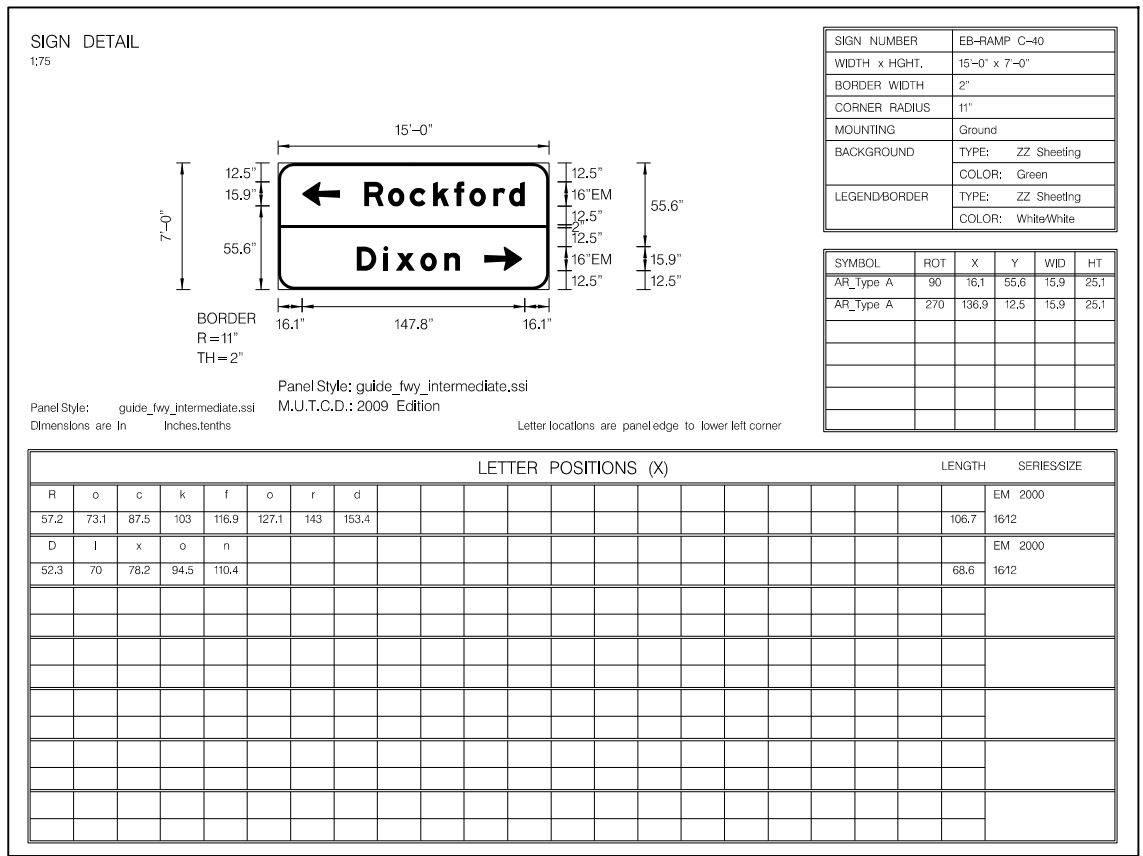
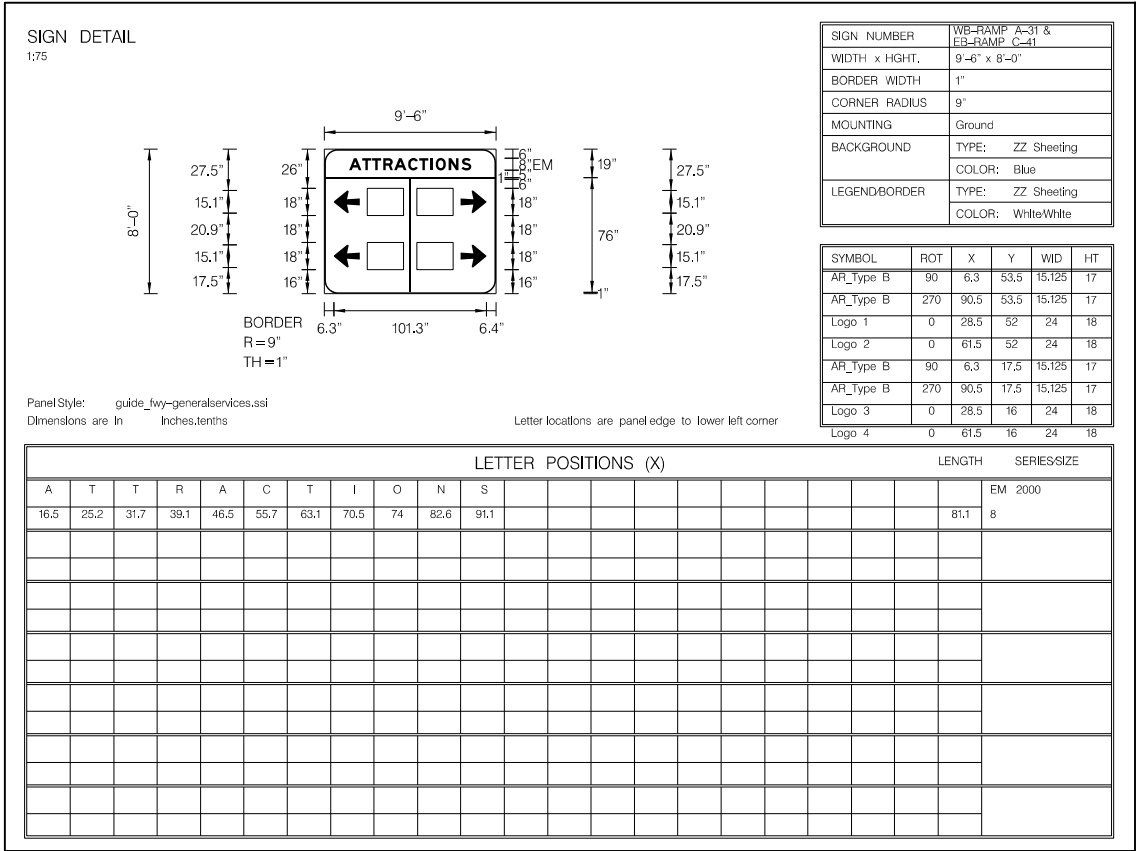
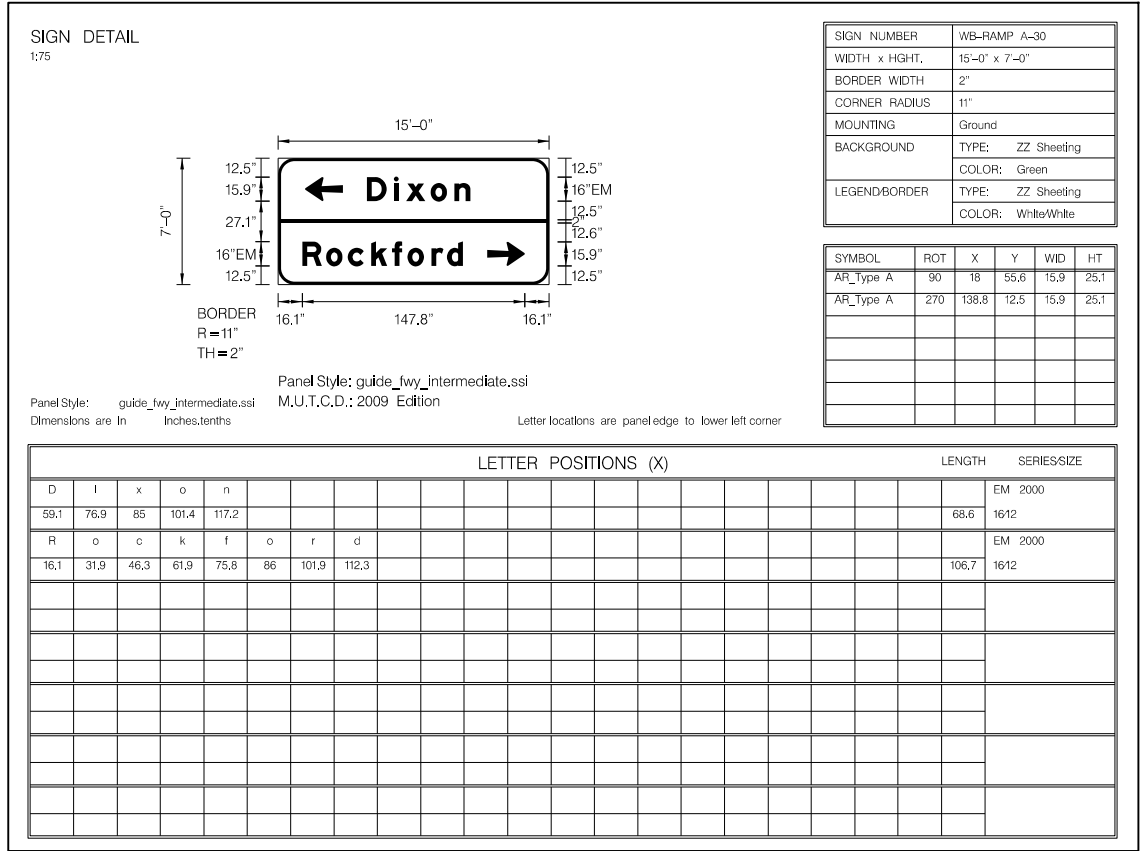
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
742	3HBR	WINNEBAGO	689	434
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	

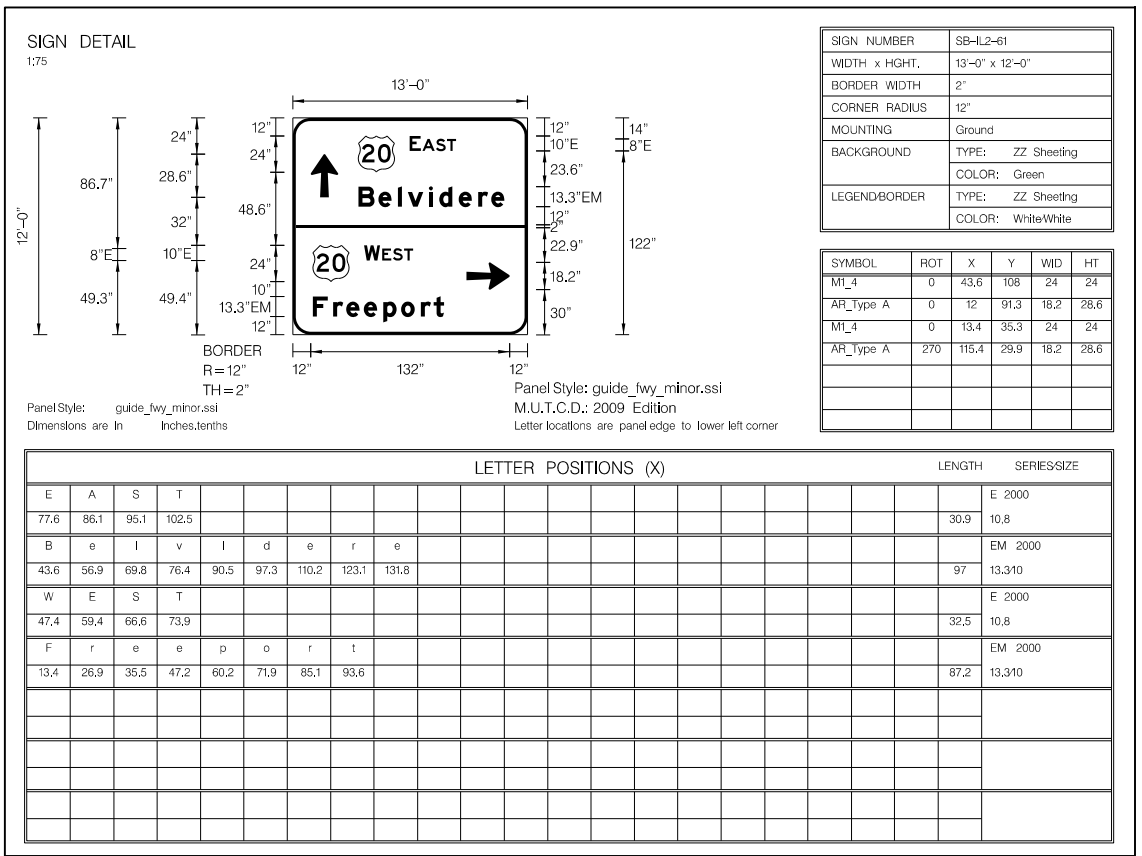
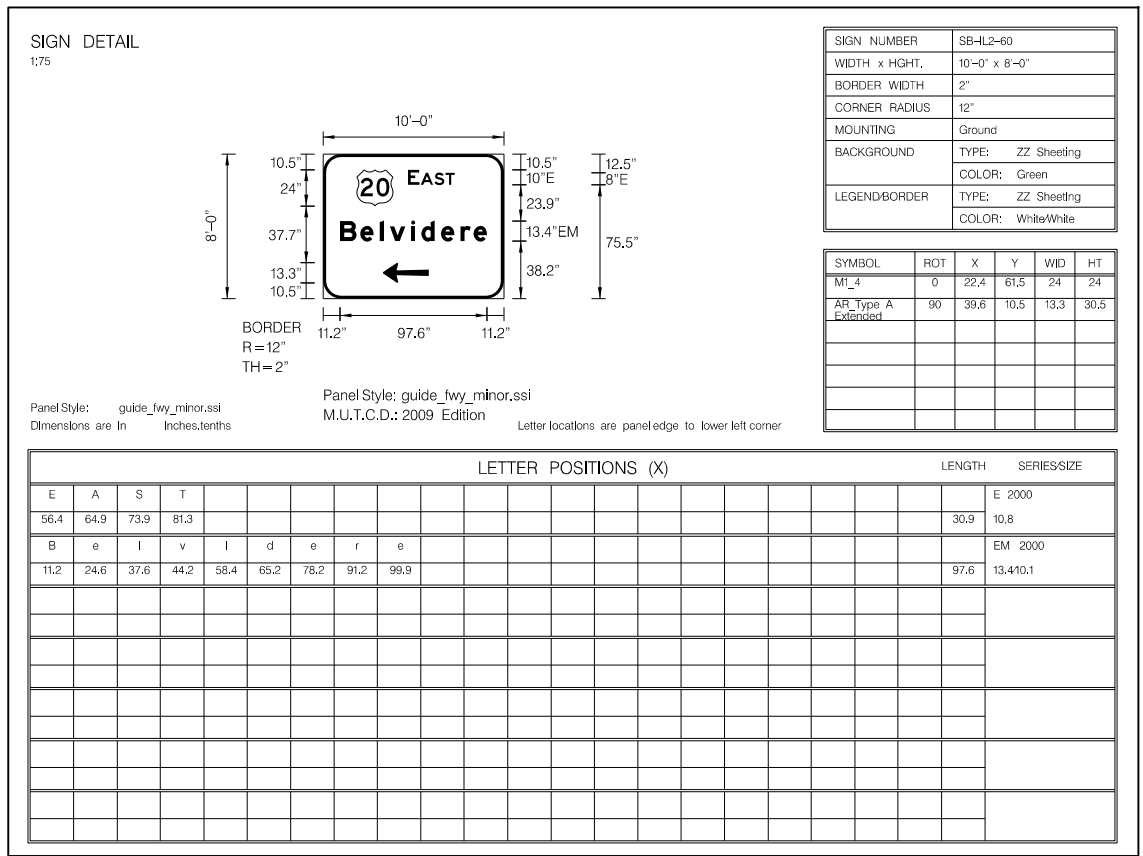
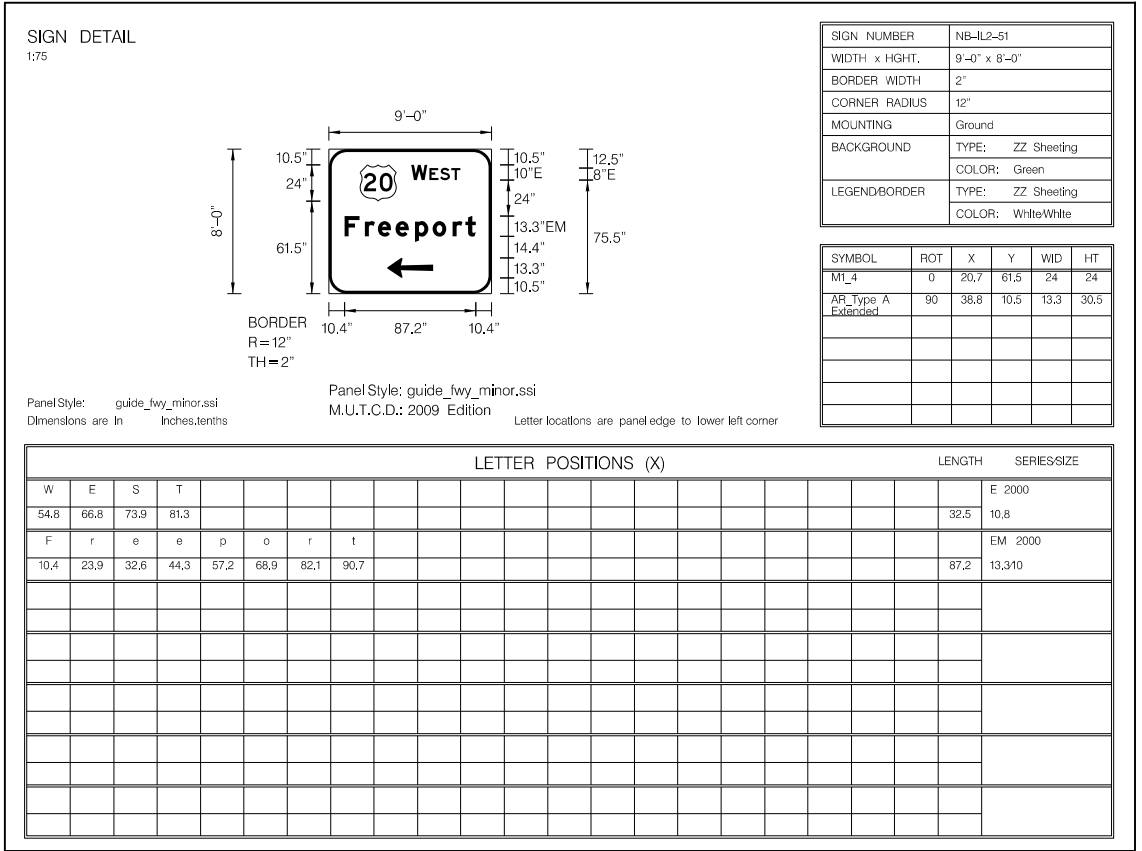
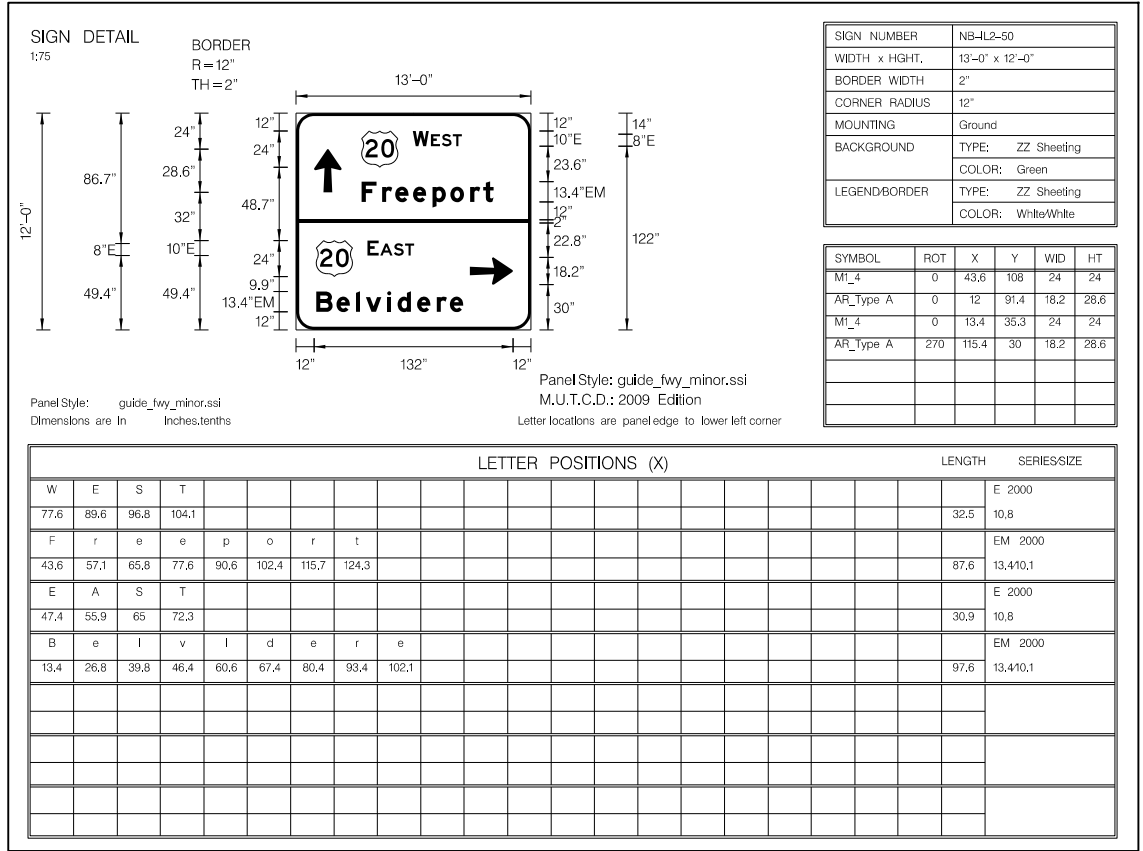
CONTRACT NO. 64B87

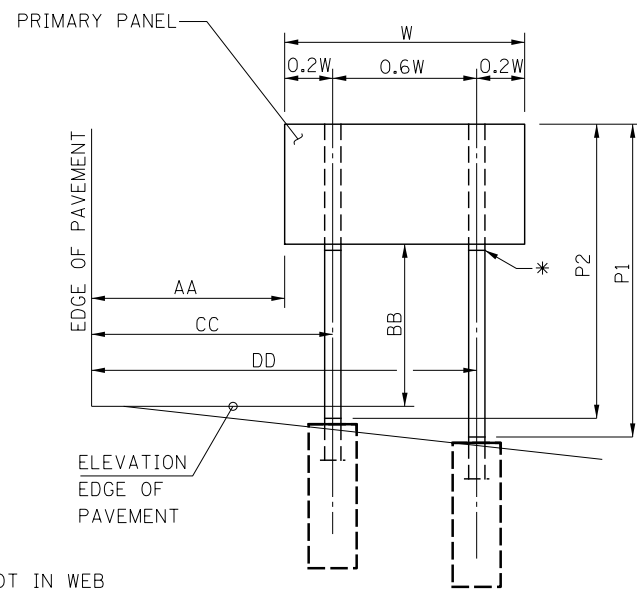




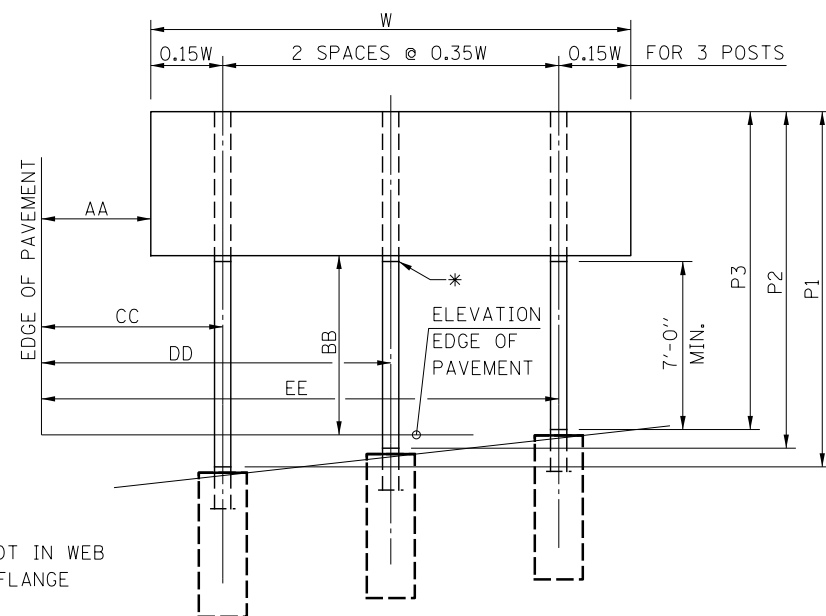








\* FLAME CUT SLOT IN WEB AND SAW CUT FLANGE (TYP.)



\* FLAME CUT SLOT IN WEB AND SAW CUT FLANGE (TYP.)

**BREAK-AWAY WIDE FLANGE STEEL MOUNTED SIGN DETAIL**

**BREAKAWAY SIGN SUPPORT SCHEDULE**

SIGN PANEL DESCRIPTION	SIGN PANEL DETAIL CODE	STA.	POST SIZE	72000300	72700100	50800205	73400100
				SIGN PANEL TYPE 3 (SQ FT)	STRUCTURAL STEEL SIGN SUPPORT - BREAKAWAY (POUND)	REINFORCEMENT BARS (EPOXY COATED) (POUND)	CONCRETE FOUNDATION (CU YD)
<b>EASTBOUND US 20</b>							
Attractions Next Right	EB-US20-01	806+00	W14 X 30	172.5	1,260	226	3.8
Food Next Right	EB-US20-08	814+50	W10 X 26	150.0	1,235	196	2.54
Gas Next Right	EB-US20-09	821+50	W10 X 26	150.0	1,235	196	2.54
IL 2 Rockford Dixon 1 Mile	EB-US20-03	828+50	W14 X 30	156.0	1,617	226	3.8
Rockford Airport Next Right	EB-US20-05	840+40	EXISTING	87.5			
IL 2 Rockford Dixon 1/2 Mile	EB-US20-04	854+50	W14 X 38	156.0	2,311	244	4.18
BMO Harris Bank Center Next Right	EB-US20-06	869+00	W10 X 26	105.0	1,176	196	2.54
IL 2 Rockford Dixon (Arrow)	EB-US20-07	874+65	W14 X 38	168.0	2,394	244	4.18
<b>WESTBOUND US 20</b>							
IL 2 Dixon Rockford (Arrow)	WB-US20-10	914+85	W14 X 38	168.0	2,394	244	4.18
Rockford Airport Next Right	WB-US20-12	927+60	W6 X 15	87.5	630	156	1.4
IL 2 Dixon Rockford 1/2 Mile	WB-US20-11	935+00	W14 X 30	156.0	1,692	226	1.4
BMO Harris Bank Center Next Right	WB-US20-13	941+00	W8 X 18	105.0	638	156	1.4
Gas Next Right	WB-US20-16	948+00	W12 X 26	150.0	1,324	214	2.82
Food Next Right	WB-US20-17	955+00	EXISTING	150.0			
IL 2 Dixon Rockford 1 Mile	WB-US20-15	961+00	W14 X 38	156.0	2,185	244	4.18
<b>RAMP "A"</b>							
Attractions (Ramp Version)	WB-RAMP A-31	110+50	W10 X 22	76.0	1,109	184	2.36
Dixon LT Arrow / Rockford RT Arrow	WB-RAMP A-30	112+00	W10 X 26	105.0	1,698	196	2.54
Food (Ramp Version)	WB-RAMP A-32	113+50	W10 X 22	76.0	1,100	184	2.36
Gas (Ramp Version)	WB-RAMP A-33	115+10	W10 X 22	76.0	1,100	184	2.36
<b>RAMP "C"</b>							
Attractions (Ramp Version)	EB-RAMP C-41	310+50	W10 X 22	76.0	1,109	184	2.36
Rockford LT Arrow / Dixon RT Arrow	EB-RAMP C-40	312+00	W10 X 22	105.0	949	184	2.36
Food (Ramp Version)	EB-RAMP C-42	313+50	W8 X 18	76.0	719	156	1.4
Gas (Ramp Version)	EB-RAMP C-43	315+00	W6 X 15	76.0	564	156	1.4
<b>NORTHBOUND IL 2</b>							
US 20 West Ahead / US 20 East Right	NB-IL2-50	242+50	W14 X 30	156.0	1,515	226	3.8
US 20 West Freeport Left Arrow	NB-IL2-51	252+00	W6 X 15	72.0	575	156	1.4
<b>SOUTHBOUND IL 2</b>							
US 20 East Belvidere Left Arrow	SB-IL2-60	246+50	W8 X 18	80.0	764	156	1.4
US 20 East Ahead / US 20 West Right	SB-IL2-61	256+00	W14 X 30	156.0	1,557	226	3.8
<b>SUBTOTAL</b>				<b>3248</b>	<b>32850</b>	<b>4960</b>	<b>66.5</b>
<b>(SEE CONSTRUCTION NOTE) PROJECT TOTAL</b>				<b>NOTE 1</b>	<b>32850</b>	<b>NOTE 1</b>	<b>66.5</b>

NOTE 1: SEE SUMMARY OF QUANTITIES FOR TOTAL PROJECT QUANTITY.

**CONSTRUCTION NOTE:**

THE SIZE, DIMENSIONS AND QUANTITIES OF CONCRETE FOUNDATIONS, REINFORCEMENT AND POSTS FOR SIGNS MOUNTED ON BREAK-AWAY STEEL POSTS ARE FOR BIDDING PURPOSES ONLY. THE FINAL DESIGN SHALL BE DETERMINED AFTER FINAL GRADING HAS BEEN COMPLETED. ONCE FINAL GRADING IS COMPLETE, THE CONTRACTOR SHALL CONTACT AND NOTIFY TRAFFIC OPERATIONS AT (815) 284-5469. THE DEPARTMENT WILL PROVIDE THE CONTRACTOR WITH THE EXACT SIGN LOCATIONS AND FINAL DESIGN. THE CONTRACTOR WILL HAVE 90 CALENDAR DAYS TO COMPLETE THE BREAK-AWAY STEEL SIGN INSTALLATIONS AFTER RECEIVING THE FINAL DESIGN FROM THE DEPARTMENT.

**KNIGHT**

Engineers & Architects

USER NAME = ds1wo	DESIGNED - PMO	REVISED -
	DRAWN - PMO	REVISED -
PLOT SCALE = 1:8	CHECKED - DMS	REVISED -
PLOT DATE = 8/16/2018	DATE - 08-15-2018	REVISED -

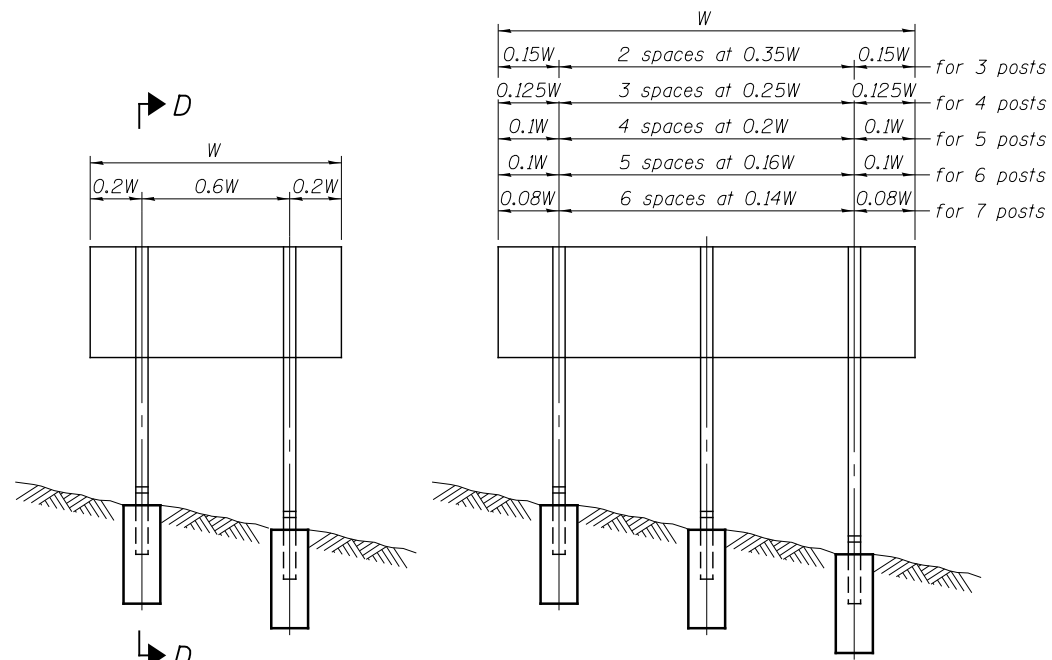
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**BREAK-AWAY WIDE FLANGE  
STEEL SIGN POST INSTALLATION DETAILS AND SCHEDULE**

SCALE: SHEET NO. 1 OF 1 SHEETS STA. TO STA.

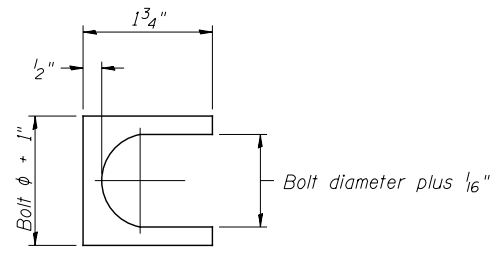
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
742	3HBR	WINNEBAGO	689	440
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 64B87	





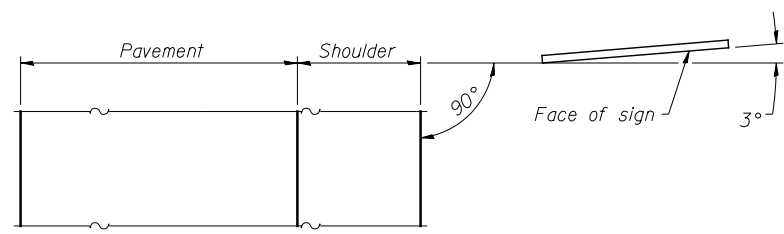
**ELEVATION**

0.15W	2 spaces at 0.35W	0.15W	for 3 posts
0.125W	3 spaces at 0.25W	0.125W	for 4 posts
0.1W	4 spaces at 0.2W	0.1W	for 5 posts
0.1W	5 spaces at 0.16W	0.1W	for 6 posts
0.08W	6 spaces at 0.14W	0.08W	for 7 posts

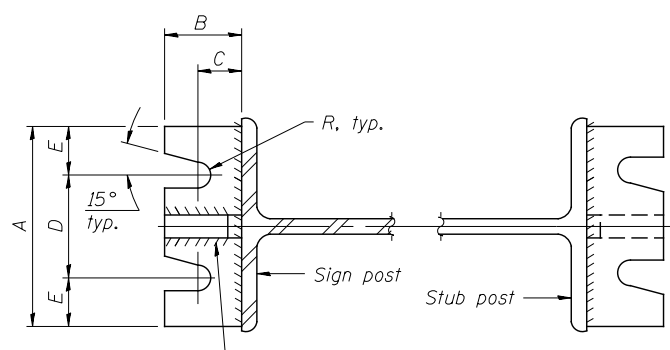


**SHIM DETAIL**

Furnish two 0.01" thick and two 0.03" thick stainless steel or brass (ASTM B36) shims per post.

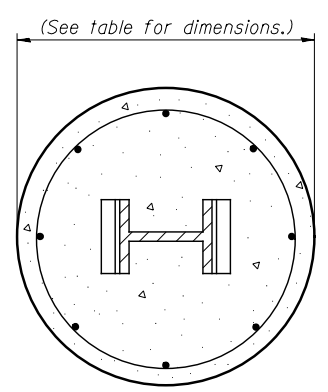


**LOCATION SKETCH**

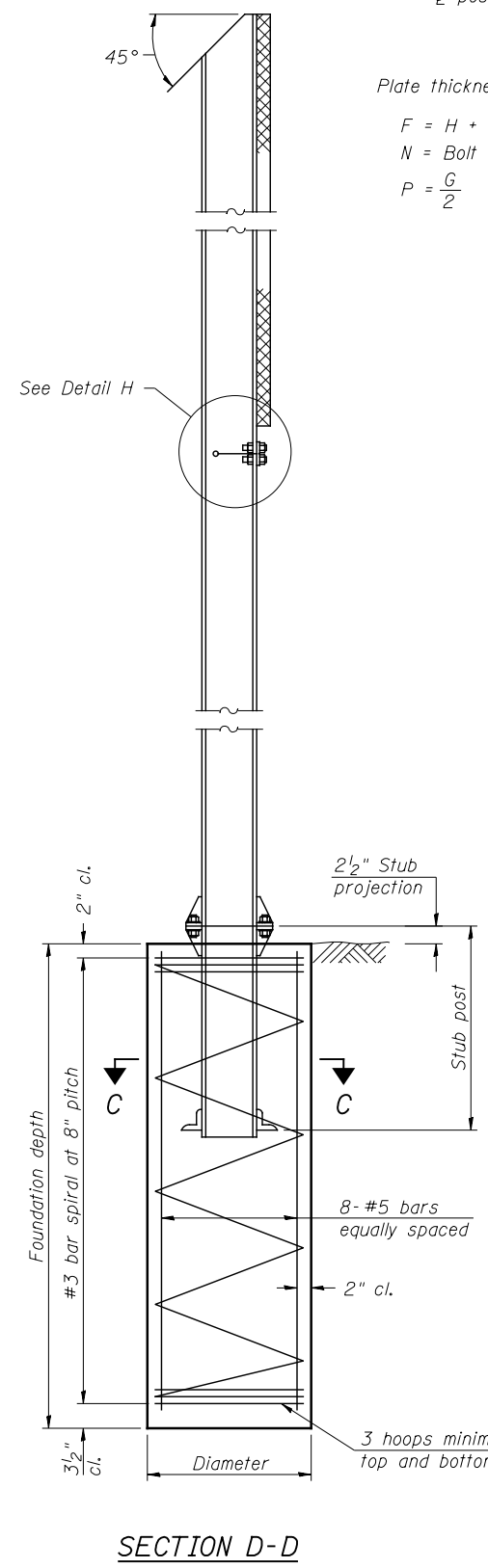


**SECTION A-A**

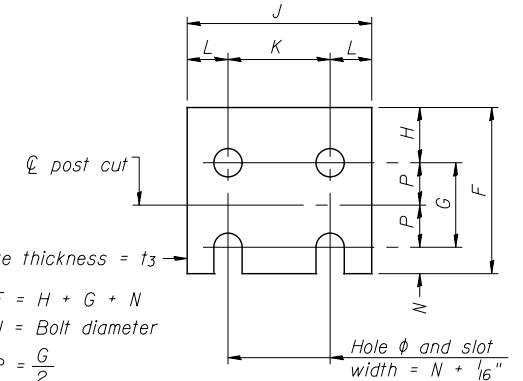
**SECTION B-B**



**SECTION C-C**



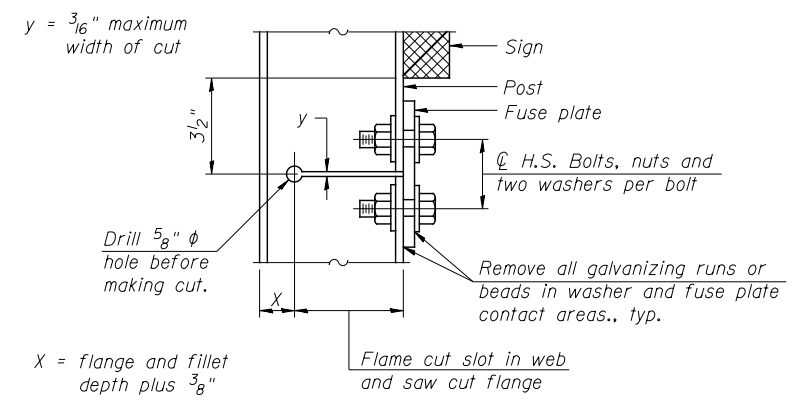
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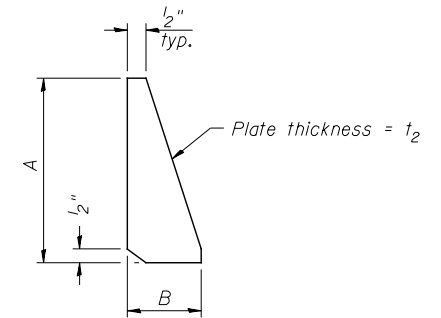
**FUSE PLATE DETAIL**

(Install with notches down.)

N = Bolt Diameter	G	H
1/2"	2"	1 1/8"
5/8"	2 1/4"	1 1/4"
3/4"	2 1/2"	1 3/8"
7/8"	2 3/4"	1 1/2"
1"	3"	1 5/8"
1 1/8"	3 1/4"	1 3/4"
1 1/4"	3 1/2"	1 7/8"



**DETAIL H**



**STIFFENER PLATE DETAIL**

**GENERAL NOTES**

Posts shall be plumbed by using shims with post-to-stub post connection bolts snug tight only. Final tightening of all High Strength Bolts shall be in accordance with Article 727.05 and threads at the junction of the bolt and nut shall be burred or center punched to prevent the nut from loosening.

LOADING: 80 m.p.h. wind with 30% gust factor, normal to sign.

DESIGN STRESSES:  
 Structural steel - 20,000 p.s.i.  
 Reinforcing steel - 20,000 p.s.i.  
 Concrete - 1,400 p.s.i.  
 Footing soil pressure - 2,000 p.s.f.

After fabrication, the post, fuse plate and upper 6", min. of the stub post shall be hot-dip galvanized in accordance with AASHTO M111. All bolts, nuts and washers shall be hot-dip galvanized in accordance with AASHTO M232.

Work this sheet with Base Sheet BAW-A-2.

BAW-A-1

6-1-12

(Sheet 1 of 2)

**KNIGHT**  
Engineers & Architects

USER NAME = dsilvo  
 PLOT SCALE = 1:8  
 PLOT DATE = 8/16/2018

DESIGNED - PMO  
 DRAWN - PMO  
 CHECKED - DMS  
 DATE - 08-15-2018

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

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

**BREAK-AWAY WIDE FLANGE**  
**STEEL SIGN POST DETAILS**

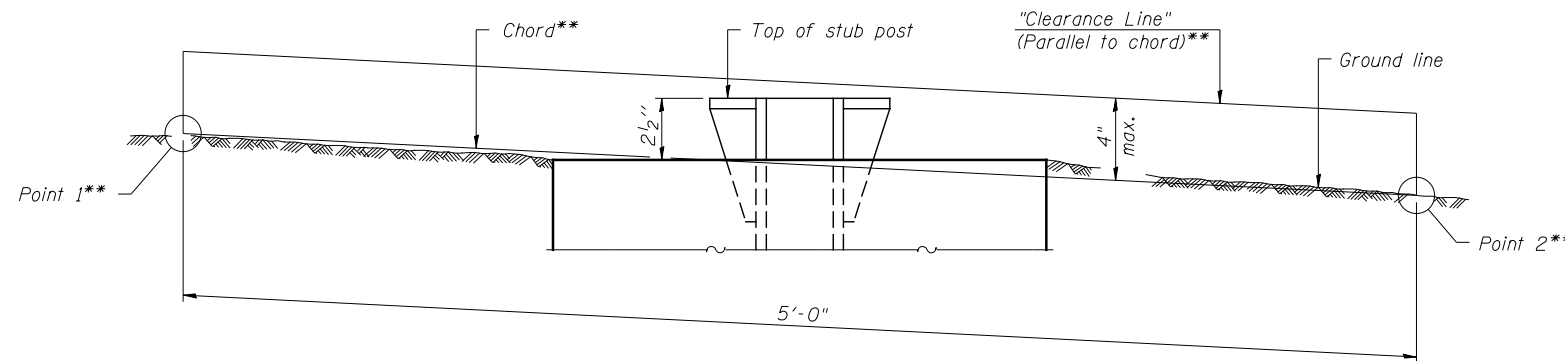
SCALE: SHEET NO. 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
742	3HBR	WINNEBAGO	689	441
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 64B87	

POST	CONCRETE FOUNDATION TABLE								POST TO STUB POST CONNECTION DATA								FUSE PLATE DATA					
	Foundation			Reinforcement			Stub Post Length	Bolt Size	A	B	C	D	E	t <sub>1</sub>	t <sub>2</sub>	R	W	J	K	L	t <sub>3</sub>	
	Diameter	*Minimum Depth	Concrete (1) cu. yds.)	Vertical Bars Length	Bar Spirals Diameter Length	lbs. (2)																
W6x9	2'-0"	6'-0"	0.70	5'-9"	1'-8 1/2"	79'-0"	78	2'-3"	5/8" x 3/4"	6"	2 1/4"	1 1/4"	3/2"	1 1/4"	3/4"	1/2"	11/32"	1/4"	4"	2 1/4"	7/8"	1/4"
W6x15	2'-0"	6'-0"	0.70	5'-9"	1'-8 1/2"	79'-0"	78	2'-6"	5/8" x 3/4"	6"	2 1/4"	1 1/4"	3/2"	1 1/4"	3/4"	1/2"	11/32"	1/4"	6"	3 1/2"	1 1/4"	3/8"
W8x18	2'-0"	6'-0"	0.70	5'-9"	1'-8 1/2"	79'-0"	78	2'-6"	3/4" x 3 3/4"	6"	2 1/2"	1 3/8"	3/4"	1 3/8"	1"	1/2"	13/32"	5/16"	5 1/4"	2 3/4"	1 1/4"	3/8"
W10x22	2'-6"	6'-6"	1.18	6'-3"	2'-2 1/2"	105'-0"	92	3'-0"	3/4" x 3 3/4"	6"	2 1/2"	1 3/8"	3/4"	1 3/8"	1"	1/2"	13/32"	5/16"	5 3/4"	2 3/4"	1 1/2"	1/2"
W10x26	2'-6"	7'-0"	1.27	6'-9"	2'-2 1/2"	112'-0"	98	3'-0"	7/8" x 4"	7"	2 3/4"	1 1/2"	4"	1 1/2"	1"	3/4"	15/32"	3/8"	5 3/4"	2 3/4"	1 1/2"	5/8"
W12x26	2'-6"	7'-9"	1.41	7'-6"	2'-2 1/2"	119'-0"	107	3'-0"	7/8" x 4"	7"	2 3/4"	1 1/2"	4"	1 1/2"	1"	3/4"	15/32"	3/8"	6 1/2"	3 1/2"	1 1/2"	5/8"
W14x30	3'-0"	7'-3"	1.90	7'-0"	2'-8 1/2"	145'-0"	113	3'-0"	7/8" x 4"	7"	2 3/4"	1 1/2"	4"	1 1/2"	1"	3/4"	15/32"	3/8"	6 3/4"	3 1/2"	1 5/8"	1/2"
W14x38	3'-0"	8'-0"	2.09	7'-9"	2'-8 1/2"	153'-0"	122	3'-6"	1" x 4 1/2"	7 1/2"	3"	1 3/4"	4"	1 3/4"	1 1/4"	3/4"	17/32"	3/8"	6 3/4"	3 1/2"	1 5/8"	1/2"
W16x45	3'-0"	8'-6"	2.23	8'-3"	2'-8 1/2"	162'-0"	130	3'-6"	1" x 4 1/2"	7 1/2"	3"	1 3/4"	4"	1 3/4"	1 1/4"	3/4"	17/32"	3/8"	7"	3 1/2"	1 3/4"	1/2"

\*Dimensional changes required for varying site conditions shall be approved by the Engineer.

POST	FUSE PLATE BOLT SIZE																					
	Sign Height																					
	4'-0"	5'-0"	6'-0"	7'-0"	8'-0"	9'-0"	10'-0"	11'-0"	12'-0"	13'-0"	14'-0"	15'-0"	16'-0"	17'-0"	18'-0"	19'-0"	20'-0"	21'-0"	22'-0"	23'-0"	24'-0"	
W6x9	1/2" x 1 1/2"	1/2" x 1 1/2"	1/2" x 1 1/2"	1/2" x 1 1/2"	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
W6x15	1/2" x 1 3/4"	1/2" x 1 3/4"	1/2" x 1 3/4"	5/8" x 2"	5/8" x 2"	3/4" x 2"	3/4" x 2"	3/4" x 2"	3/4" x 2"	---	---	---	---	---	---	---	---	---	---	---	---	
W8x18	1/2" x 1 3/4"	1/2" x 1 3/4"	1/2" x 1 3/4"	1/2" x 1 3/4"	5/8" x 2"	5/8" x 2"	3/4" x 2"	3/4" x 2"	3/4" x 2"	3/4" x 2"	---	---	---	---	---	---	---	---	---	---	---	
W10x22	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2"	5/8" x 2"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	---	---	---	---	---	---	---	---	
W10x26	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2 1/4"	5/8" x 2 1/4"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	---	---	---	---	---	---	---	
W12x26	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2 1/4"	5/8" x 2 1/4"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	---	---	---	---	---	---	
W14x30	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2"	5/8" x 2"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	---	---	---	---	
W14x38	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2 1/4"	5/8" x 2 1/4"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	7/8" x 2 1/2"	7/8" x 2 1/2"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"
W16x45	---	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2 1/4"	5/8" x 2 1/4"	5/8" x 2 1/4"	3/4" x 2 1/2"	3/4" x 2 1/2"	7/8" x 2 1/2"	7/8" x 2 1/2"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"	



**ELEVATION  
GROUND LINE & STUB POST**

\*\* For all "Point 1" and "Point 2" locations, "Clearance Line" must be at or above top of stub post.

- Quantity includes all concrete necessary for one foundation.
- Includes reinforcement bars and spiral hooping for one foundation.

BAW-A-2

6-1-12


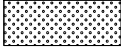


(Sheet 2 of 2)

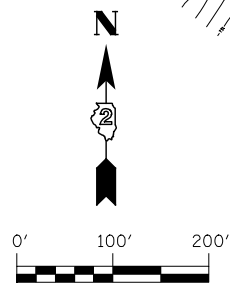
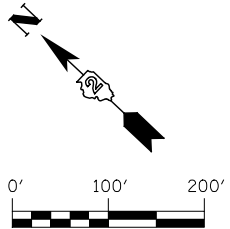
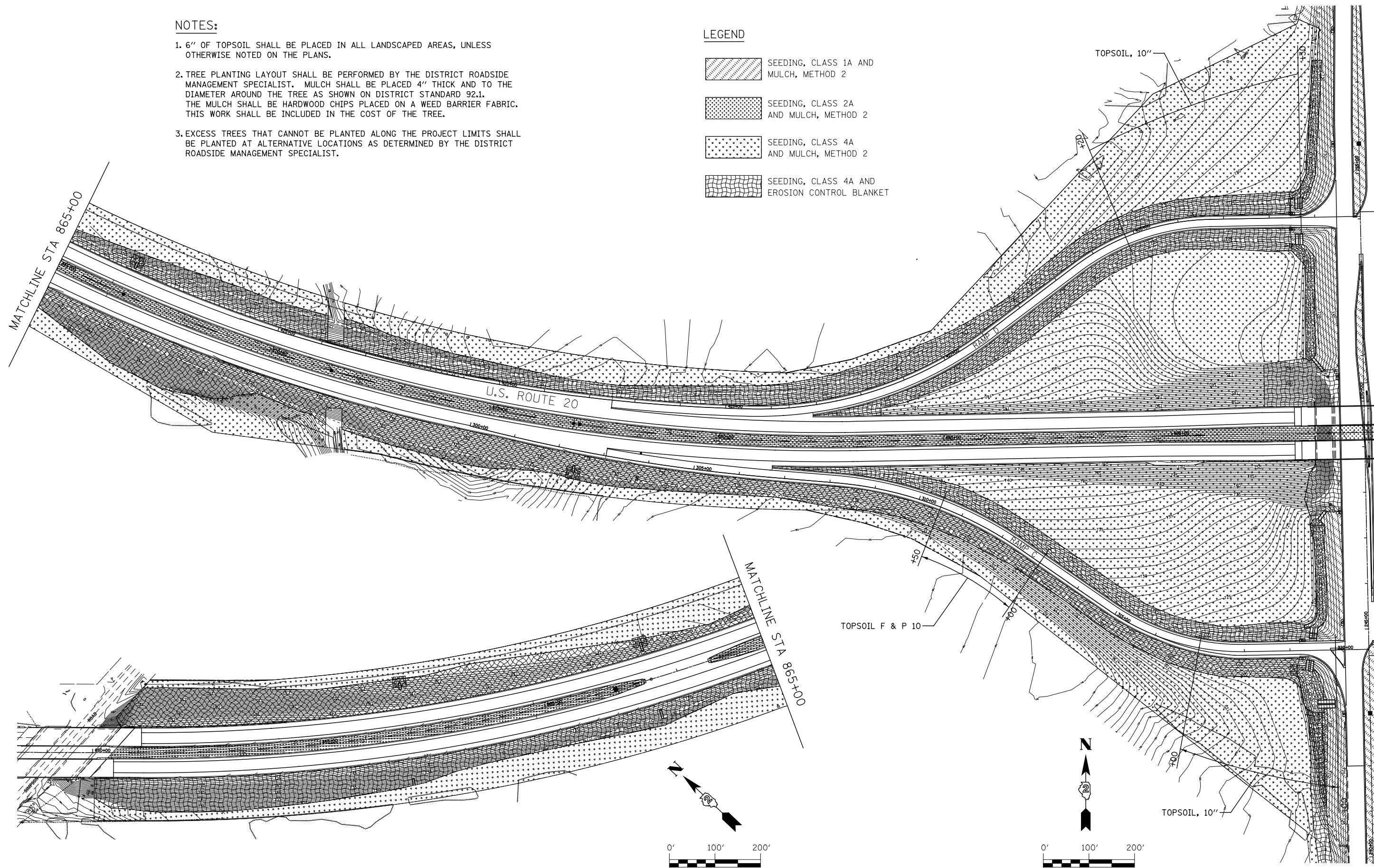
<b>KNIGHT</b> Engineers & Architects	USER NAME = dsiwo	DESIGNED - PMO	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>BREAK-AWAY WIDE FLANGE STEEL SIGN POST TABLES</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 1:8	DRAWN - PMO	REVISED -			742	3HBR	WINNEBAGO	689	442
	PLOT DATE = 8/16/2018	CHECKED - DMS	REVISED -			FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		CONTRACT NO. 64B87
		DATE - 08-15-2018	REVISED -			SCALE:	SHEET NO. 2 OF 2 SHEETS	STA.	TO STA.	

**NOTES:**

1. 6" OF TOPSOIL SHALL BE PLACED IN ALL LANDSCAPED AREAS, UNLESS OTHERWISE NOTED ON THE PLANS.
2. TREE PLANTING LAYOUT SHALL BE PERFORMED BY THE DISTRICT ROADSIDE MANAGEMENT SPECIALIST. MULCH SHALL BE PLACED 4" THICK AND TO THE DIAMETER AROUND THE TREE AS SHOWN ON DISTRICT STANDARD 92.1. THE MULCH SHALL BE HARDWOOD CHIPS PLACED ON A WEED BARRIER FABRIC. THIS WORK SHALL BE INCLUDED IN THE COST OF THE TREE.
3. EXCESS TREES THAT CANNOT BE PLANTED ALONG THE PROJECT LIMITS SHALL BE PLANTED AT ALTERNATIVE LOCATIONS AS DETERMINED BY THE DISTRICT ROADSIDE MANAGEMENT SPECIALIST.

**LEGEND**

-  SEEDING, CLASS 1A AND MULCH, METHOD 2
-  SEEDING, CLASS 2A AND MULCH, METHOD 2
-  SEEDING, CLASS 4A AND MULCH, METHOD 2
-  SEEDING, CLASS 4A AND EROSION CONTROL BLANKET



**KNIGHT**  
Engineers & Architects

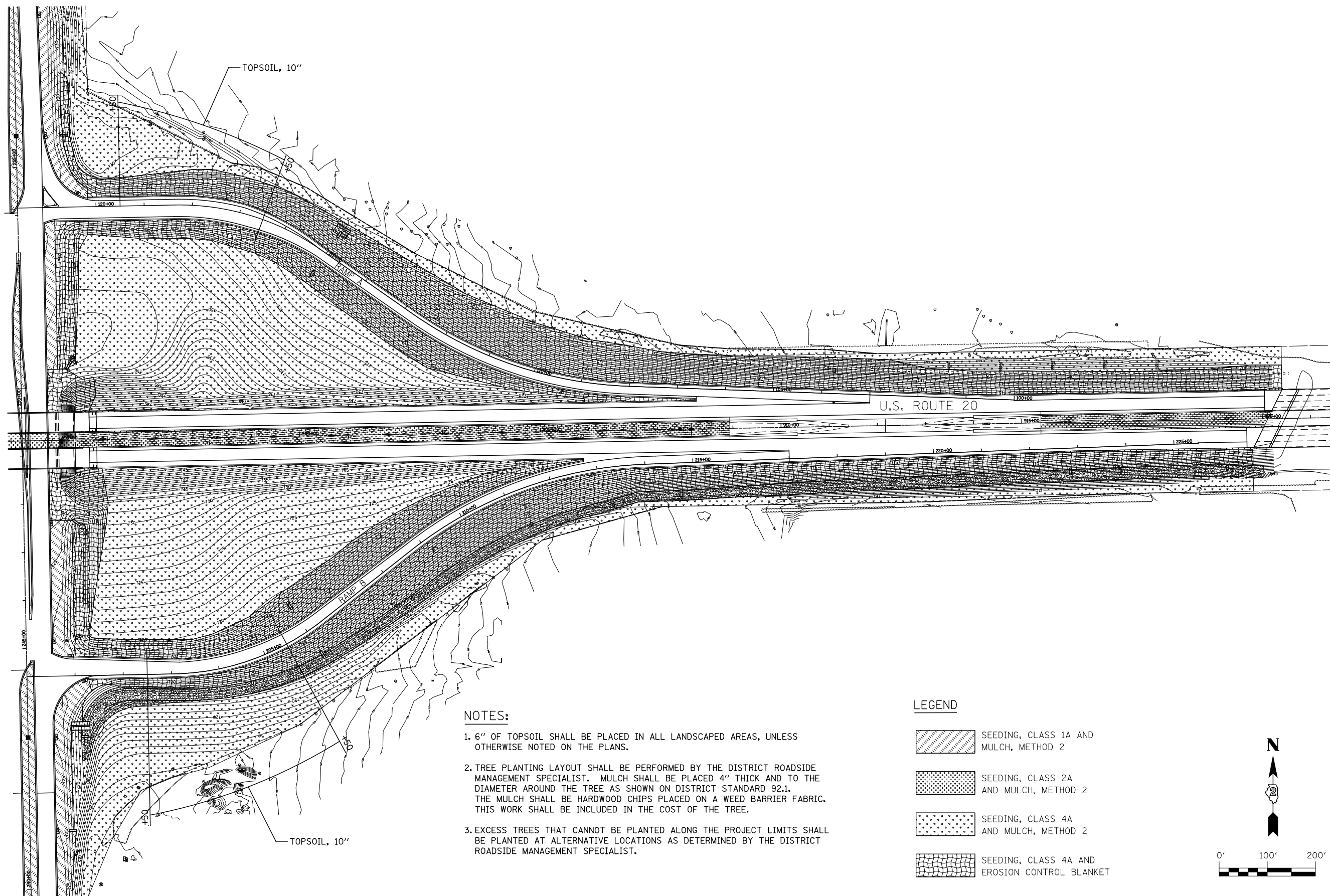
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	DRAWN - PMO	REVISED -
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PLOT DATE = 8/16/2018	DATE - 08/15/2018	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**LANDSCAPE PLANS  
US ROUTE 20**

SHEET NO. OF SHEETS STA. TO STA.

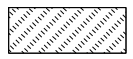
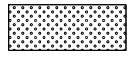

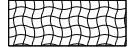
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	3HBR	WINNEBAGO	689	443
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 64B87	

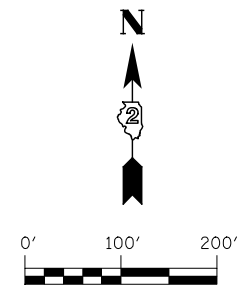


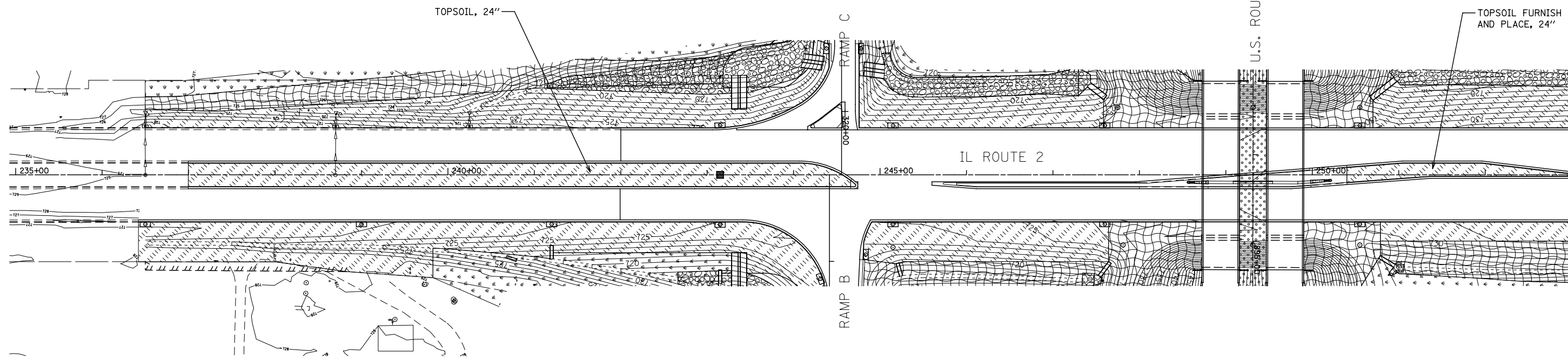
**NOTES:**

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**LEGEND**

-  SEEDING, CLASS 1A AND MULCH, METHOD 2
-  SEEDING, CLASS 2A AND MULCH, METHOD 2
-  SEEDING, CLASS 4A AND MULCH, METHOD 2
-  SEEDING, CLASS 4A AND EROSION CONTROL BLANKET

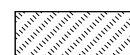

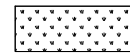



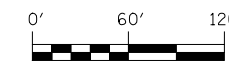


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-  SEEDING, CLASS 2A AND MULCH, METHOD 2
-  SEEDING, CLASS 4A AND MULCH, METHOD 2
-  SEEDING, CLASS 4A AND EROSION CONTROL BLANKET



**KNIGHT**  
Engineers & Architects

USER NAME = dsilwo	DESIGNED - PMO	REVISED -
	DRAWN - PMO	REVISED -
PLOT SCALE = 1:120	CHECKED - DMS	REVISED -
PLOT DATE = 8/16/2018	DATE - 08/15/2018	REVISED -

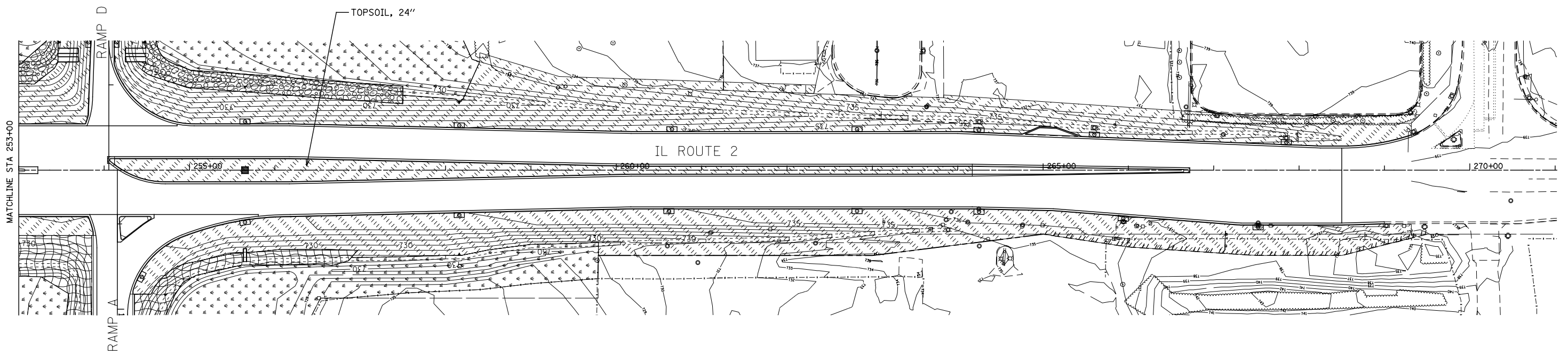
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**LANDSCAPE PLANS  
IL ROUTE 2**

SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	3HBR	WINNEBAGO	689	445
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 64B87	

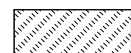

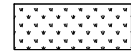
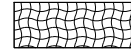
MATCHLINE STA 253+00

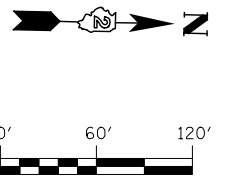


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**LEGEND**

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-  SEEDING, CLASS 2A AND MULCH, METHOD 2
-  SEEDING, CLASS 4A AND MULCH, METHOD 2
-  SEEDING, CLASS 4A AND EROSION CONTROL BLANKET



**KNIGHT**  
Engineers & Architects

USER NAME = dsirwo	DESIGNED - PMO	REVISED -
PLOT SCALE = 1:120	DRAWN - PMO	REVISED -
PLOT DATE = 8/16/2018	CHECKED - DMS	REVISED -
	DATE - 08/15/2018	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**LANDSCAPE PLANS  
IL ROUTE 2**

SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	3HBR	WINNEBAGO	689	446
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 64B87	









**TRAFFIC SIGNAL GENERAL NOTES**

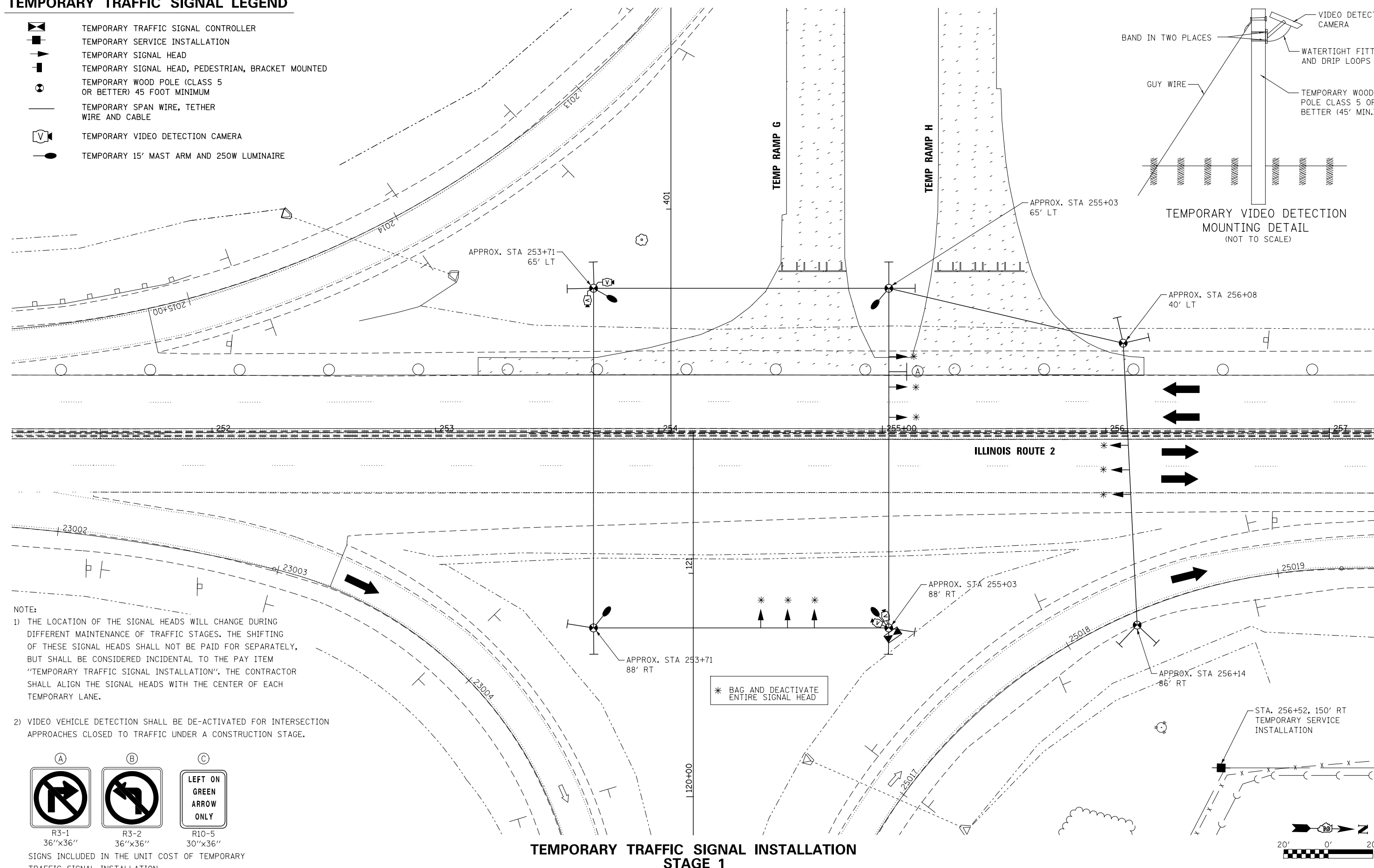
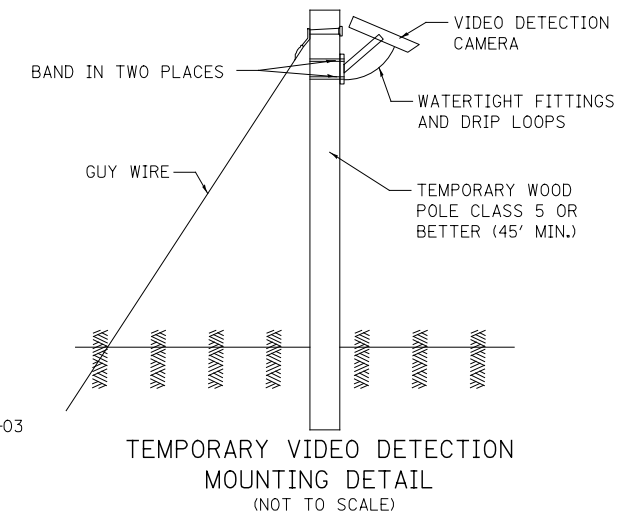
- ALL TRAFFIC SIGNAL SECTIONS SHALL HAVE 12 INCH SINGLE LED LENSES.
- THE RED SECTIONS OF THE SIGNAL HEADS SHARING THE SAME MAST ARM SHALL BE LEVEL WITH ONE ANOTHER AND MAINTAIN A 16 FOOT MINIMUM CLEARANCE FROM THE BOTTOM OF THE SIGNAL HEAD ASSEMBLY TO THE HIGHEST POINT ON THE ROADWAY.
- FOR ALL THROUGH LANES THE PROPOSED MAST ARM SIGNAL HEADS SHALL BE MOUNTED DIRECTLY ABOVE THEIR RESPECTIVE LANES.
- ALL HANDHOLES SHALL BE CONSTRUCTED SO THAT THE TOP OF THE FRAME WILL BE FLUSH WITH THE SURFACE OF THE SIDEWALK OR GROUND LINE.
- THE LOCATION OF ALL UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE THE INSTALLATION OF ANY TRAFFIC SIGNAL COMPONENTS.
- THE TRAFFIC SIGNAL CONTROLLER CABINET SHALL BE ORIENTED SO THAT THE DOOR OPENS AWAY FROM THE ROADWAY.
- THE DOUBLE HANDHOLE SHALL NOT BE USED IN LIEU OF THE CONTROLLER FOUNDATION PAD.
- THE CONTRACTOR MAY INSTALL SIGNAL CONDUIT BY USING ANY OF THE IDOT APPROVED METHODS OF INSTALLATION. TRENCHING AND BACKFILLING OF CONDUIT WILL BE ALLOWED, HOWEVER THE CONTRACTOR WILL NOT BE PAID FOR TRENCHING AND BACKFILLING AREAS FOR ELECTRICAL SYSTEMS.
- THE LOCATIONS FOR HANDHOLES, TRAFFIC SIGNAL POST FOUNDATIONS AND MAST ARM FOUNDATIONS ARE PROVIDED FOR REFERENCE ONLY. THE FIELD LOCATION SHALL BE COORDINATED WITH IDOT'S TRAFFIC OPERATIONS MANAGER AND THE CITY OF ROCKFORD PRIOR TO INSTALLATION.
- NO ADDITIONAL COMPENSATION SHALL BE ALLOWED FOR PLACING CONDUIT AT GREATER THAN 2 FOOT MINIMUM DEPTH TO AVOID OBSTACLES SUCH AS UNDERGROUND UTILITIES OR EXISTING PAVEMENT.
- THE CONTRACTOR IS RESPONSIBLE FOR THE COST OF UNCOVERING OR HAND DIGGING AROUND UTILITIES AS NECESSARY. THE COST FOR THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE COST OF CONSTRUCTING THE CONDUIT.
- ALL TRAFFIC SIGNAL MAST ARMS, POSTS, HANDHOLE LIDS AND RINGS, HANDHOLE FRAMES, CONTROLLER CABINETS AND LIGHTING CONTROLLERS SHALL BE GROUNDED IN ACCORDANCE WITH NEC REQUIREMENTS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL EXISTING DEPARTMENT LIGHTING AND TRAFFIC SIGNAL FACILITIES. THIS WORK SHALL BE INCLUDED IN THE CONTRACT BID PRICE.
- COMBINATION LIGHTING SHALL BE LED WITH WATTAGE BETWEEN 200 AND 300. MINIMUM PROVIDED LUMENS OF 20,000. COMBINATION LUMINAIRES SHALL BE HORIZONTAL MOUNT AT 40' HEIGHT ON 15 FOOT LUMONAIRE ARM ACCORDANCE WITH STANDARD 877011-09.

**TRAFFIC SIGNAL SUMMARY OF QUANTITIES**

PAY ITEM NAME	UNIT	QUANTITY TOTAL	IL-2 & US-20 WB Ramps A/D	IL-2 & US-20 EB Ramps B/C	IL-2 Interconnect	MISCELLANEOUS
PAY ITEM NAME	UNIT	QUANTITY TOTAL	QUANTITY	QUANTITY	QUANTITY	QUANTITY
SIGN PANEL - TYPE 1	SQ FT	66	33	33		
SERVICE INSTALLATION, TYPE B	EACH	2	1	1		
UNDERGROUND CONDUIT, COILABLE NONMETALLIC, 2" DIA.	FOOT	3,524	589	592	2,343	
UNDERGROUND CONDUIT, COILABLE NONMETALLIC, 2 1/2" DIA.	FOOT	195	116	79		
UNDERGROUND CONDUIT, COILABLE NONMETALLIC, 3" DIA.	FOOT	154	63	91		
UNDERGROUND CONDUIT, COILABLE NONMETALLIC, 4" DIA.	FOOT	661	340	321		
HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	14	5	5	4	
DOUBLE HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	2	1	1		
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 8	FOOT	1,386	822	564		
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1			1	
FULL-ACTUATED CONTROLLER AND TYPE V CABINET	EACH	2	1	1		
MASTER CONTROLLER	EACH	1	1			
TRANSCEIVER - FIBER OPTIC	EACH	3	1	1	1	
FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F	FOOT	3,230			3,230	
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	3,230			3,230	
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	2,798	1,434	1,364		
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	6,557	3,421	3,136		
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	732	494	238		
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	461	205	256		
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	2,415	1,225	1,190		
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	7	4	3		
TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.	EACH	2	1	1		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 38 FT.	EACH	1		1		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 42 FT.	EACH	2	1	1		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 44 FT.	EACH	1	1			
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 54 FT.	EACH	1	1			
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 65 FT.	EACH	1		1		
CONCRETE FOUNDATION, TYPE A	FOOT	36	20	16		
CONCRETE FOUNDATION, TYPE C	FOOT	8	4	4		
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	67	41	26		
CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	25		25		
DRILL EXISTING HANDHOLE	EACH	1			1	
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	6	4	2		
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	16	7	9		
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	3	2	1		
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	1	1			
SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2		2		
TRAFFIC SIGNAL BACKPLATE	EACH	17	8	9		
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	2	1	1		
VIDEO DETECTION SYSTEM	EACH	2	1	1		
LUMINAIRE, LED, HORIZONTAL MOUNT, MEDIUM WATTAGE	EACH	6	3	3		
PAINT TRAFFIC SIGNAL EQUIPMENT	L SUM	1				1
EMERGENCY VEHICLE PRIORITY SYSTEM	EACH	2	1	1		

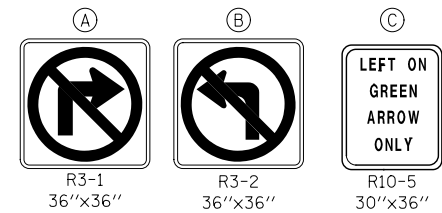
# TEMPORARY TRAFFIC SIGNAL LEGEND

-  TEMPORARY TRAFFIC SIGNAL CONTROLLER
-  TEMPORARY SERVICE INSTALLATION
-  TEMPORARY SIGNAL HEAD
-  TEMPORARY SIGNAL HEAD, PEDESTRIAN, BRACKET MOUNTED
-  TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT MINIMUM
-  TEMPORARY SPAN WIRE, TETHER WIRE AND CABLE
-  TEMPORARY VIDEO DETECTION CAMERA
-  TEMPORARY 15' MAST ARM AND 250W LUMINAIRE



NOTE:

- 1) THE LOCATION OF THE SIGNAL HEADS WILL CHANGE DURING DIFFERENT MAINTENANCE OF TRAFFIC STAGES. THE SHIFTING OF THESE SIGNAL HEADS SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED INCIDENTAL TO THE PAY ITEM "TEMPORARY TRAFFIC SIGNAL INSTALLATION". THE CONTRACTOR SHALL ALIGN THE SIGNAL HEADS WITH THE CENTER OF EACH TEMPORARY LANE.
- 2) VIDEO VEHICLE DETECTION SHALL BE DE-ACTIVATED FOR INTERSECTION APPROACHES CLOSED TO TRAFFIC UNDER A CONSTRUCTION STAGE.



SIGNS INCLUDED IN THE UNIT COST OF TEMPORARY TRAFFIC SIGNAL INSTALLATION.

## TEMPORARY TRAFFIC SIGNAL INSTALLATION STAGE 1



USER NAME = dsilwo	DESIGNED - PMO	REVISED -
PLOT SCALE = 1:40	DRAWN - PMO	REVISED -
PLOT DATE = 8/16/2018	CHECKED - DMS	REVISED -
	DATE - 08/15/2018	REVISED -

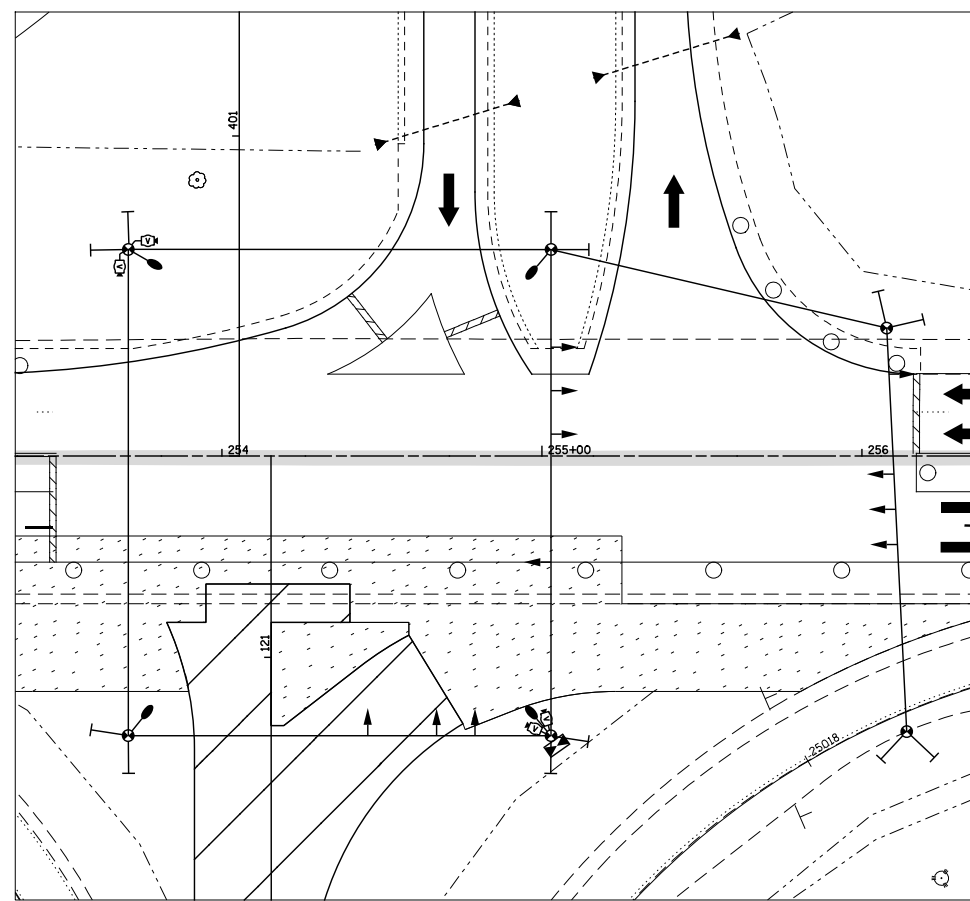
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION  
MOT STAGING PLAN  
ILLINOIS ROUTE 2 & RAMP A & RAMP D

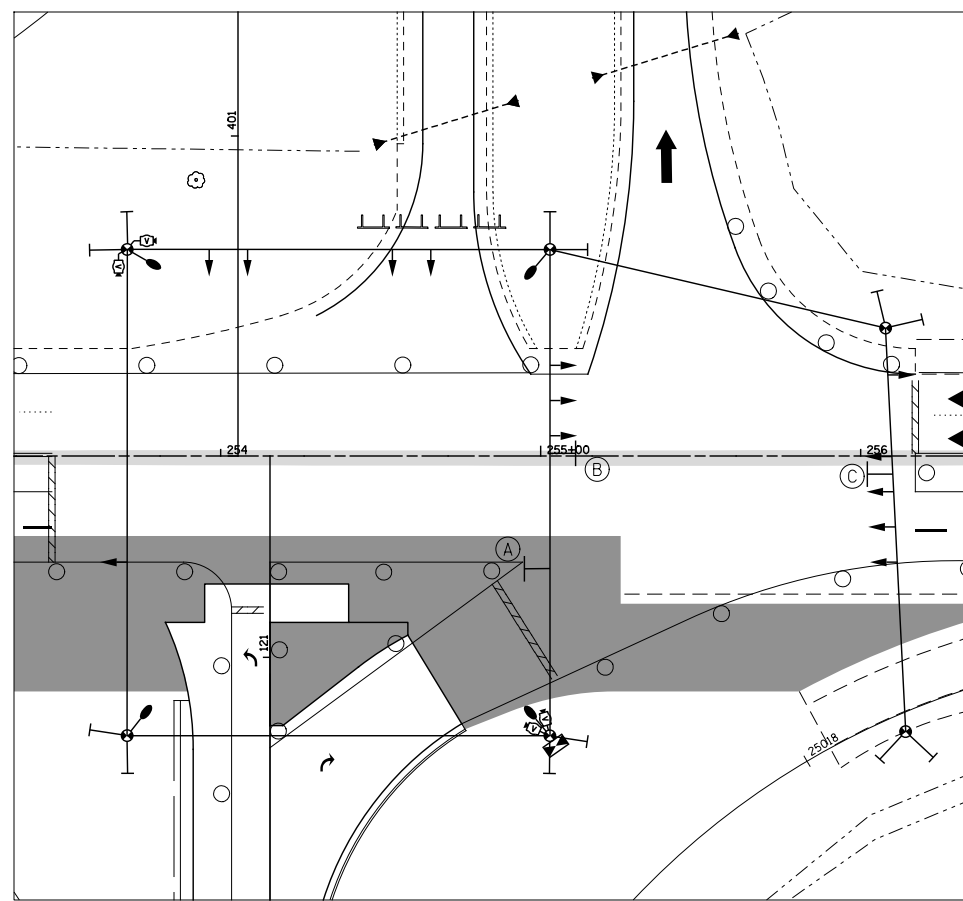
SHEET NO.	OF SHEETS	STA.	TO STA.
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 64B87				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

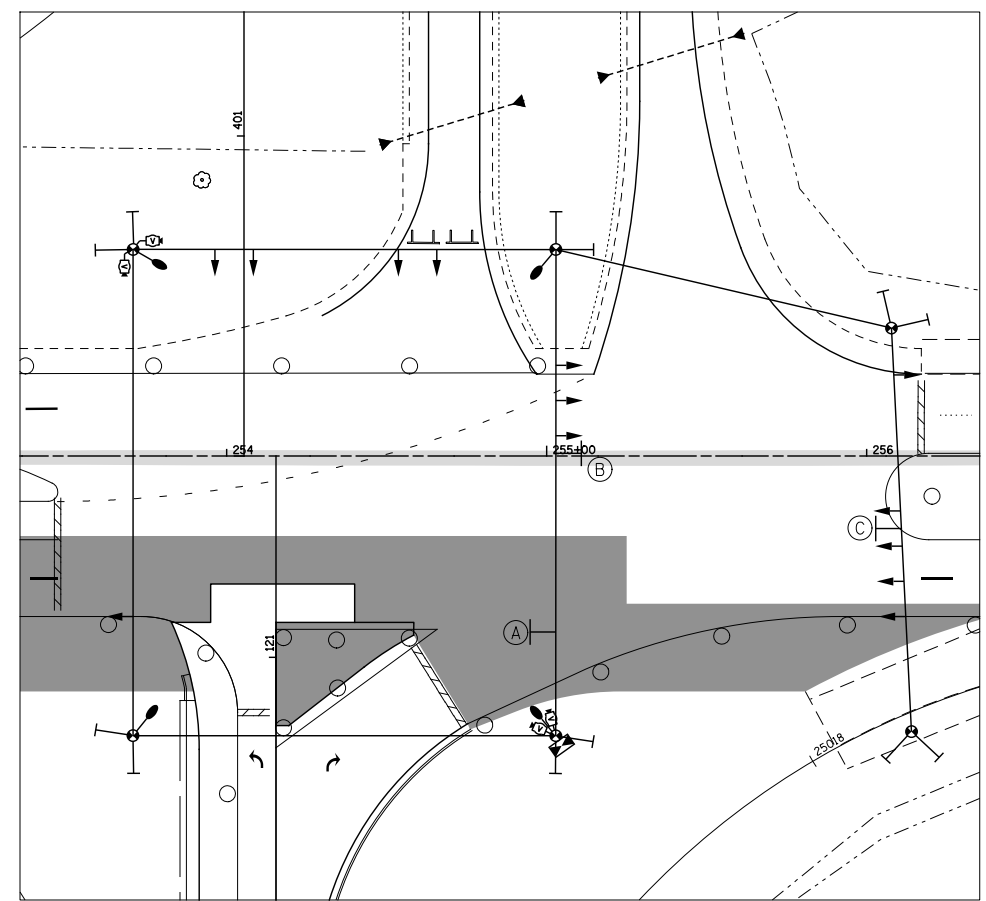




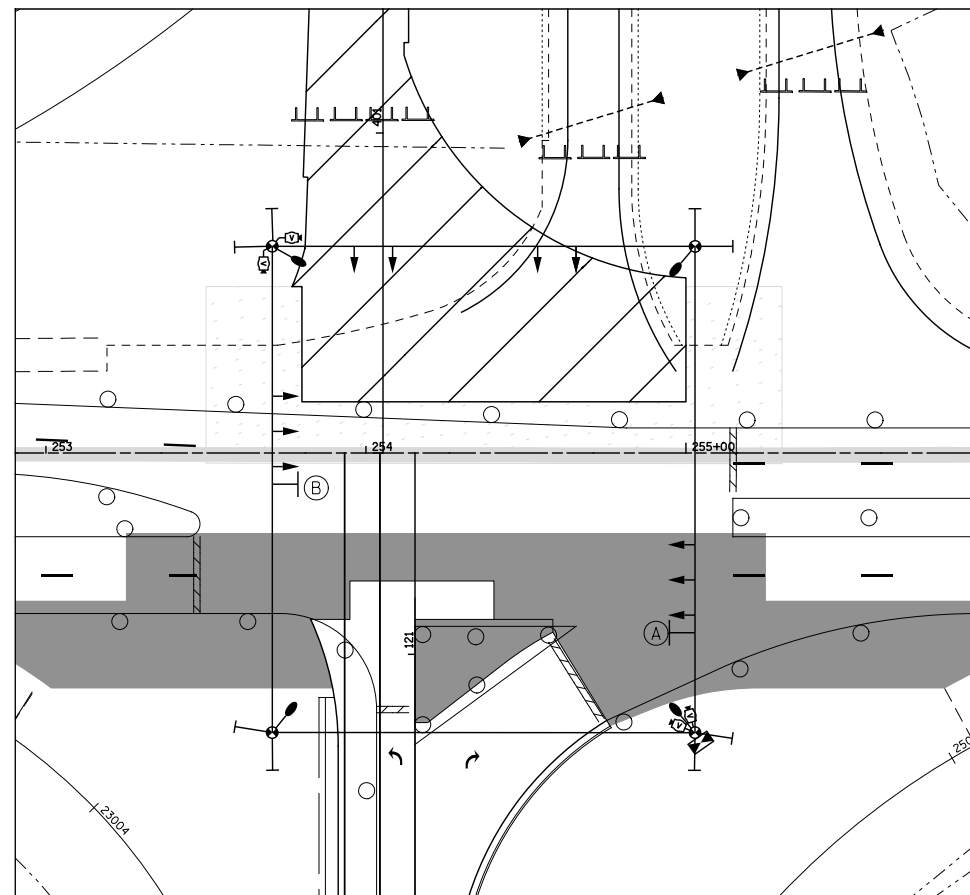
TEMPORARY TRAFFIC SIGNAL STAGE 2



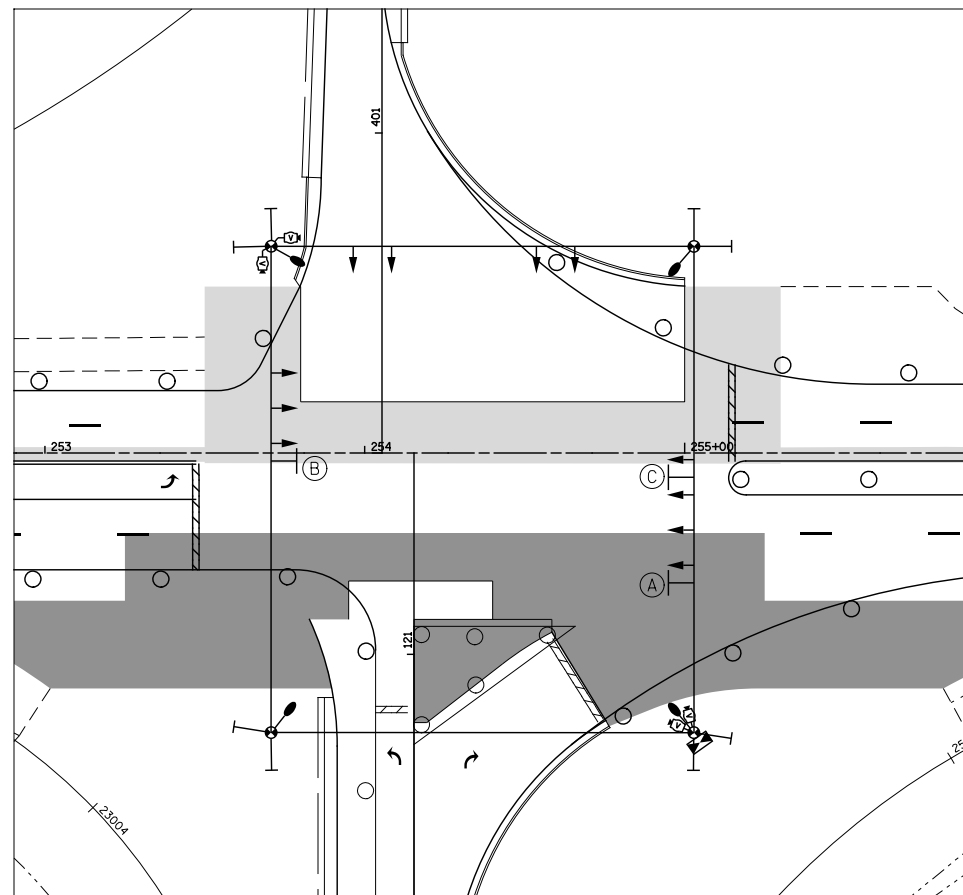
TEMPORARY TRAFFIC SIGNAL STAGE 3



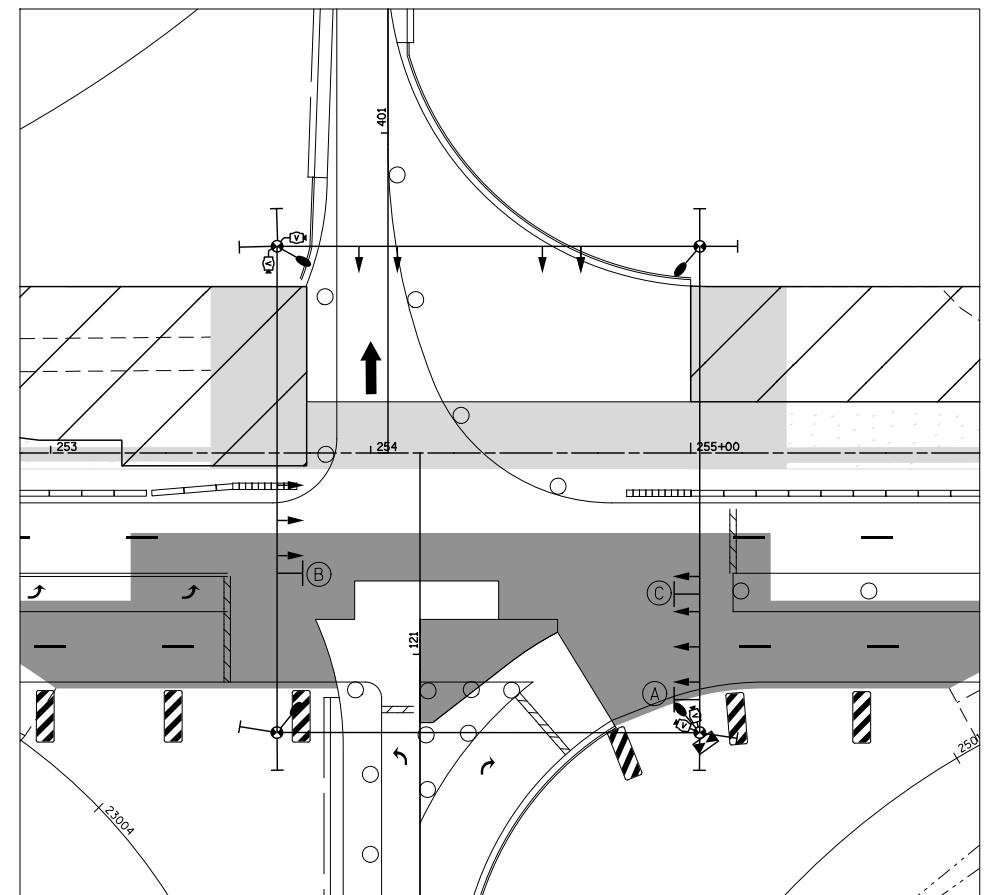
TEMPORARY TRAFFIC SIGNAL STAGE 3A



TEMPORARY TRAFFIC SIGNAL STAGE 4



TEMPORARY TRAFFIC SIGNAL STAGE 4A, 4B



TEMPORARY TRAFFIC SIGNAL STAGE 5

**KNIGHT**  
Engineers & Architects

USER NAME = dsilwo  
DESIGNED - PMO  
DRAWN - PMO  
CHECKED - DMS  
DATE - 08/15/2018  
PLOT SCALE = 1:60  
PLOT DATE = 8/16/2018

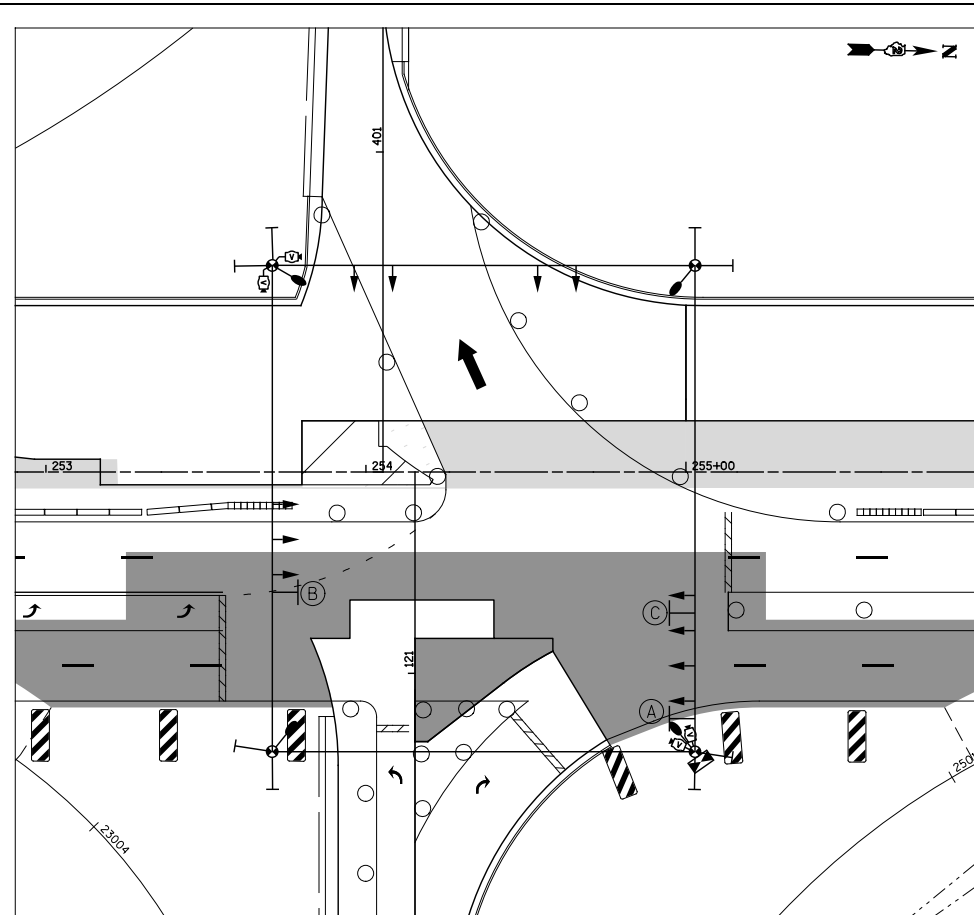
REVISED -  
REVISED -  
REVISED -  
REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

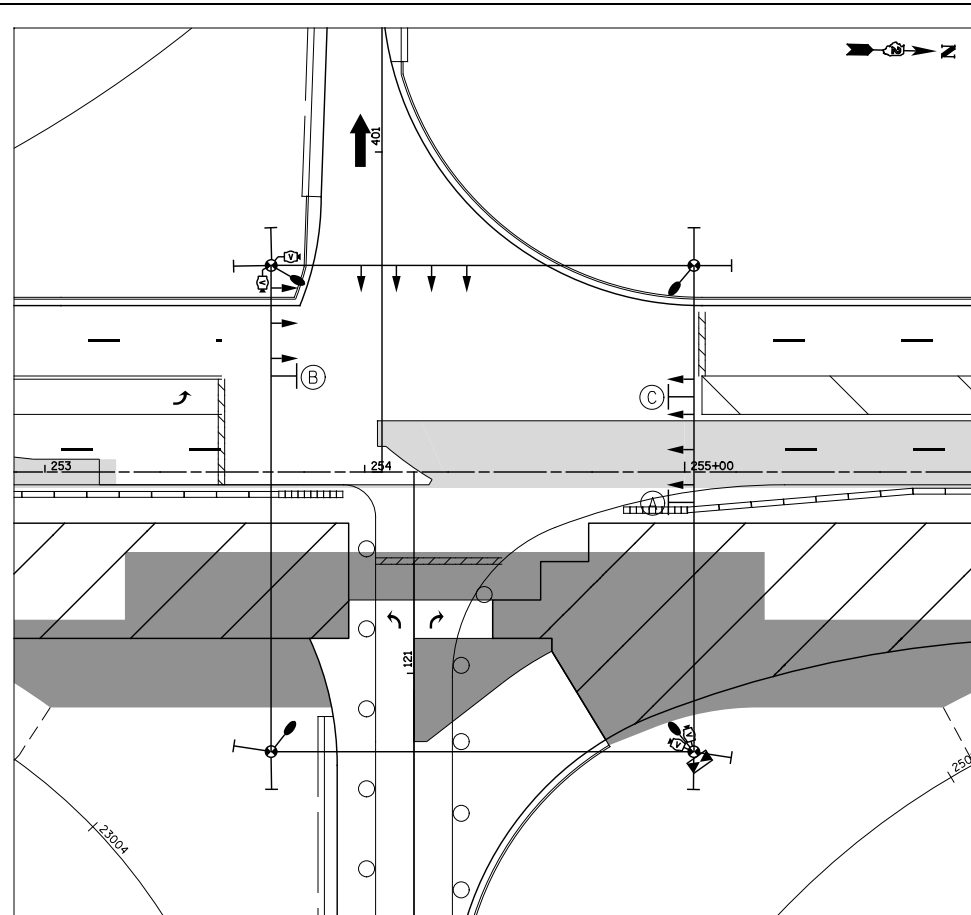
TEMPORARY TRAFFIC SIGNAL INSTALLATION  
MOT STAGING PLAN  
ILLINOIS ROUTE 2 & RAMP A & RAMP D

SHEET NO. OF SHEETS STA. TO STA.

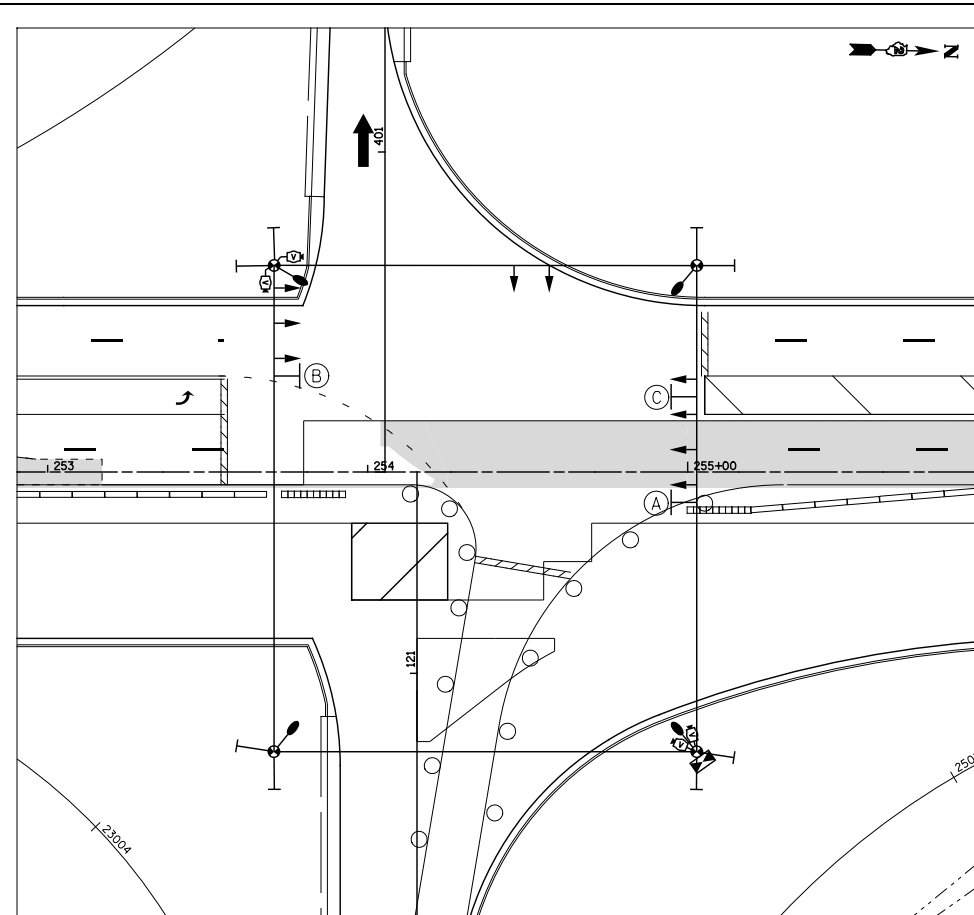
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	3HBR	WINNEBAGO	689	449
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 64B87	



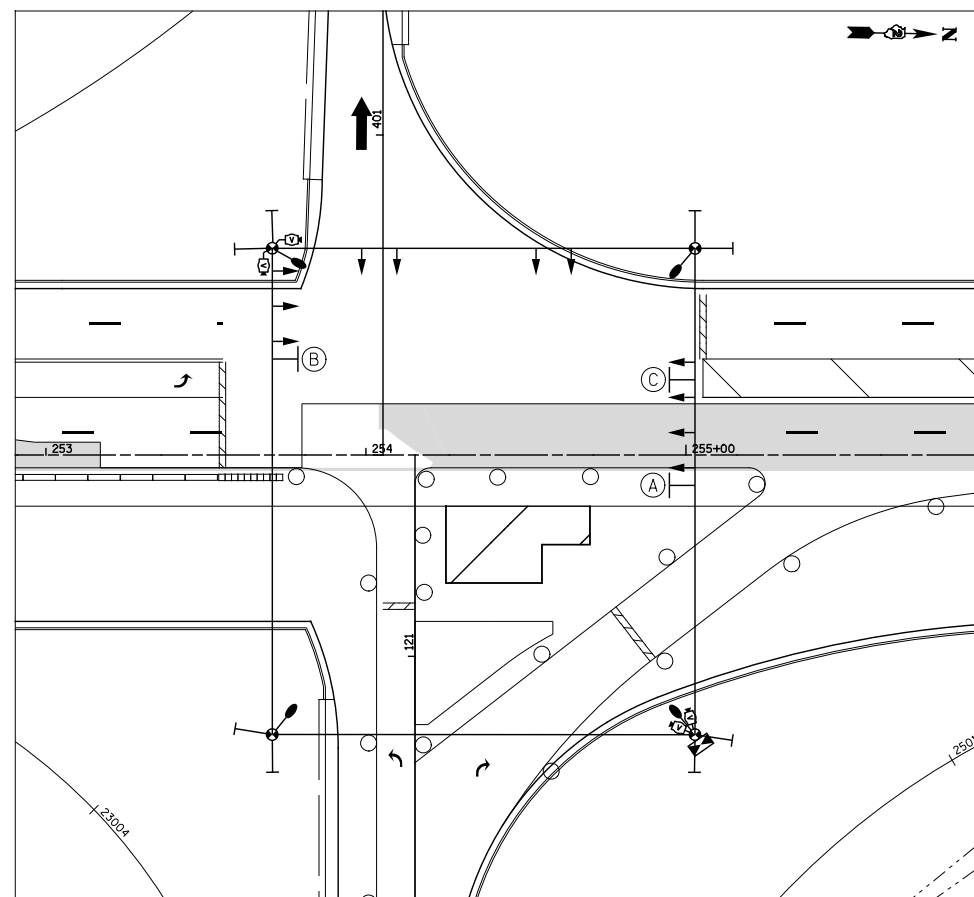
**TEMPORARY TRAFFIC SIGNAL STAGE 5A**



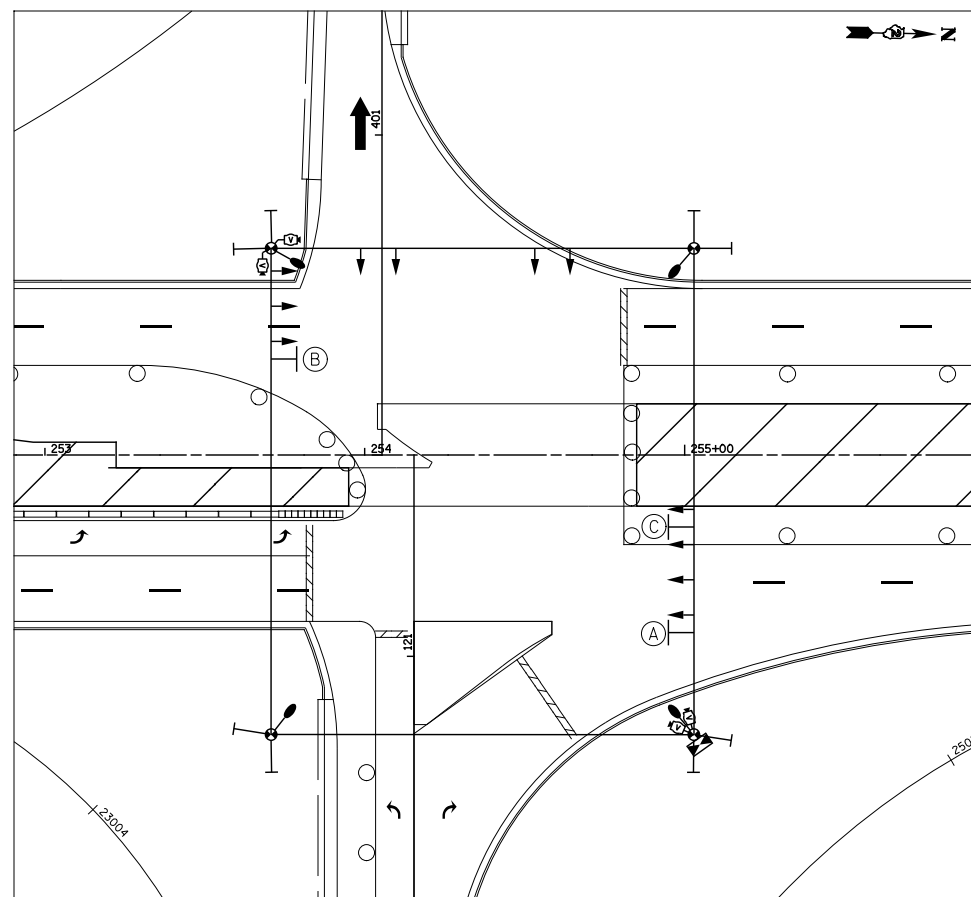
**TEMPORARY TRAFFIC SIGNAL STAGE 6**



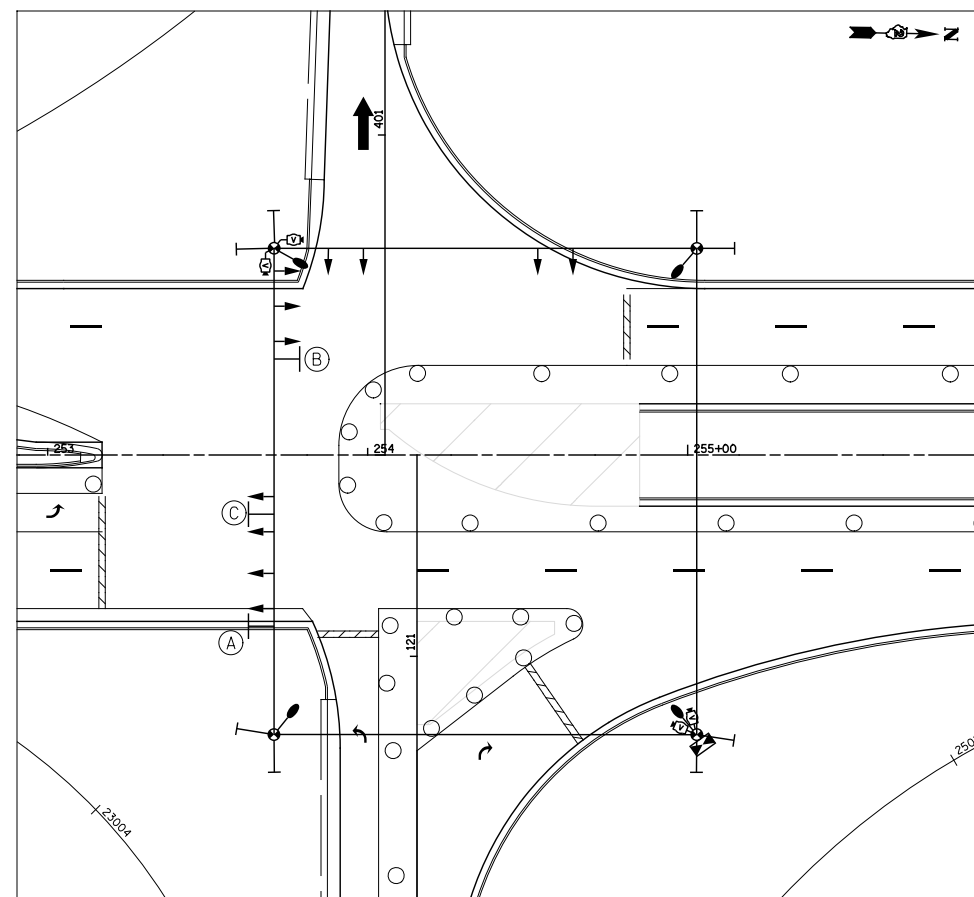
**TEMPORARY TRAFFIC SIGNAL STAGE 6A**



**TEMPORARY TRAFFIC SIGNAL STAGE 6B**



**TEMPORARY TRAFFIC SIGNAL STAGE 7**



**TEMPORARY TRAFFIC SIGNAL STAGE 7A**

**KNIGHT**  
Engineers & Architects

USER NAME = dsilwo  
DESIGNED - PMO  
DRAWN - PMO  
CHECKED - DMS  
DATE - 08/15/2018  
PLOT SCALE = 1:60  
PLOT DATE = 8/16/2018

REVISED -  
REVISED -  
REVISED -  
REVISED -

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

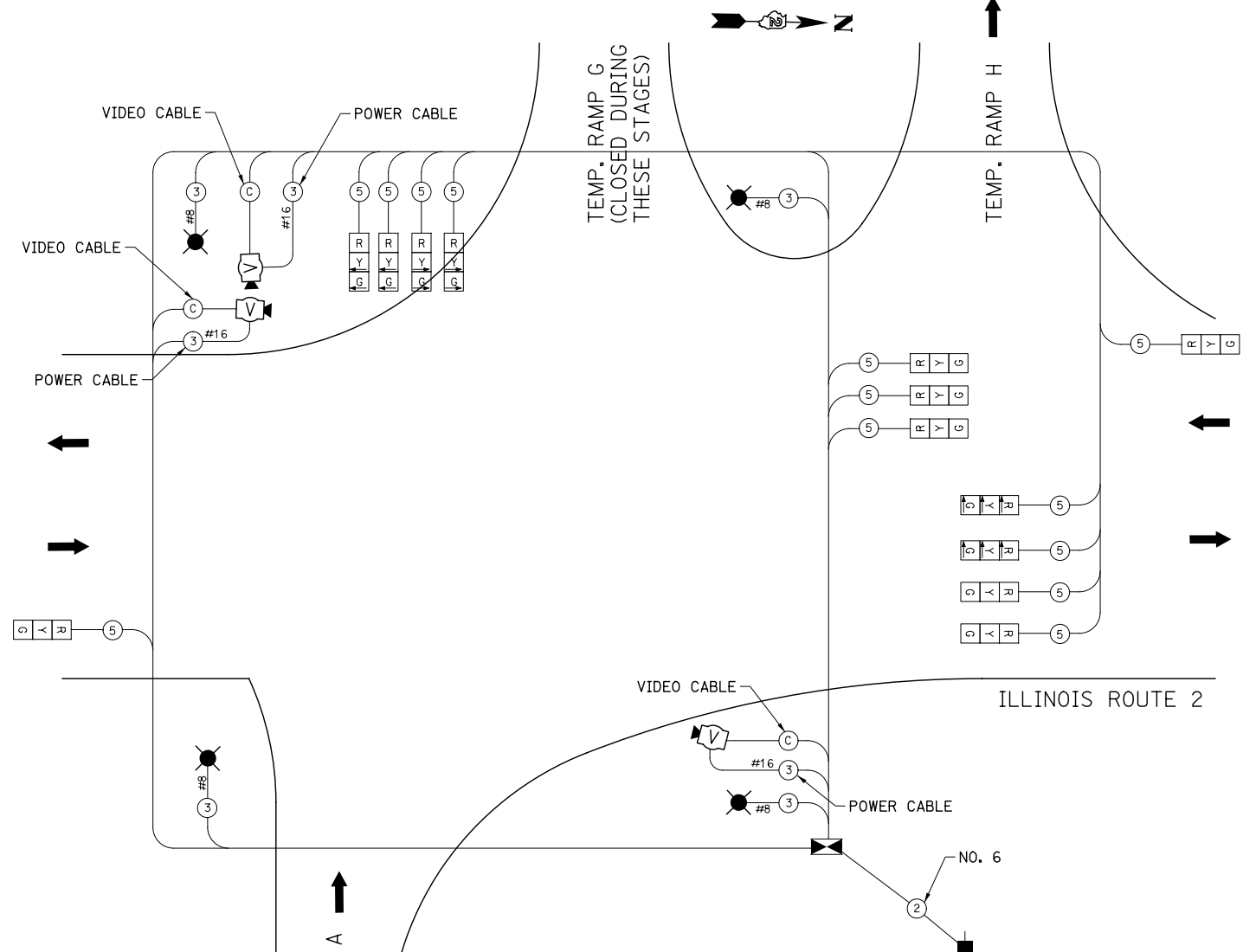
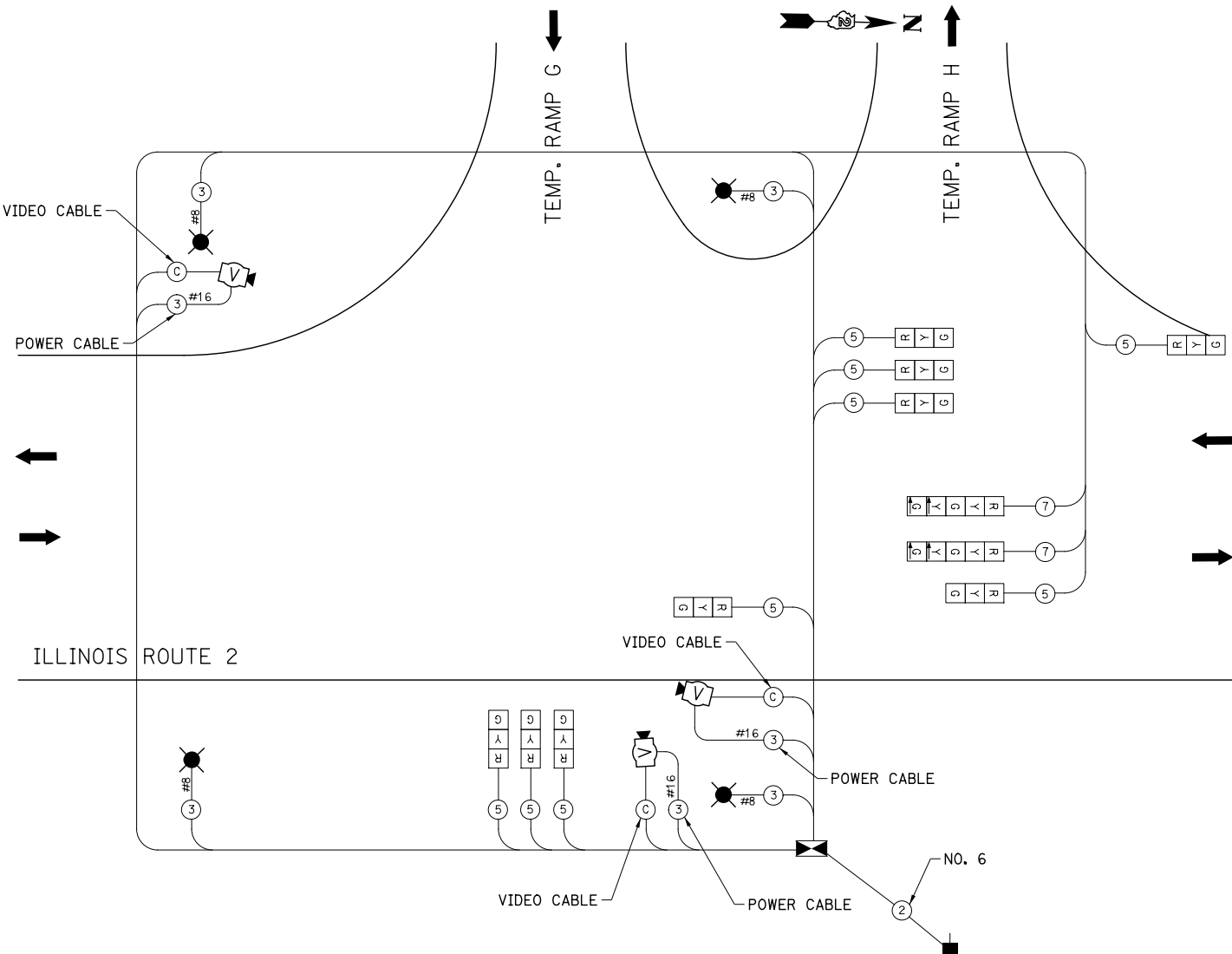
**TEMPORARY TRAFFIC SIGNAL INSTALLATION**  
**MOT STAGING PLAN**  
**ILLINOIS ROUTE 2 & RAMP A & RAMP D**

SHEET NO. OF SHEETS STA. TO STA.

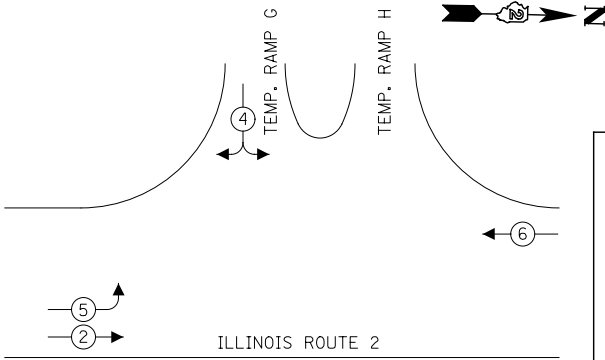
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	3HBR	WINNEBAGO	689	450
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 64B87	

STAGE 2

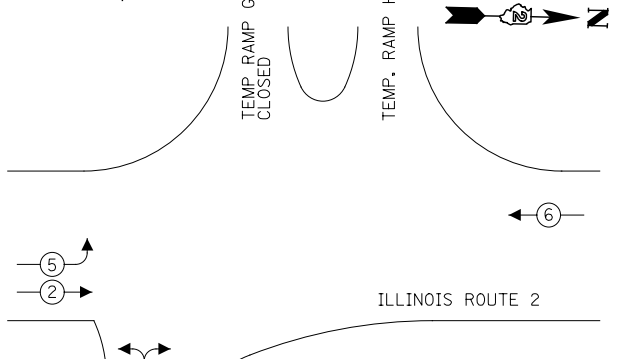
STAGES 3, 3A



CONTROLLER SEQUENCE



CONTROLLER SEQUENCE



TEMPORARY CABLE DIAGRAM LEGEND

- R TEMPORARY 12" TRAFFIC SIGNAL SECTION
- C TEMPORARY CONTROLLER CABINET
- S TEMPORARY SERVICE INSTALLATION
- V TEMPORARY SIGNAL HEAD, PEDESTRIAN
- 2 DENOTES NUMBER OF CONDUCTORS. ALL CABLE NO. 14 EXCEPT AS INDICATED
- C VIDEO COAXIAL CABLE
- P TEMPORARY PEDESTRIAN PUSH-BUTTON DETECTOR
- V TEMPORARY VIDEO DETECTION CAMERA
- L TEMPORARY 250 WATT LUMINAIRE

- LEGEND
- V VEHICULAR PHASE
  - R RIGHT-TURN OVERLAP
  - P PEDESTRIAN PHASE
  - \* NUMBER REFERS TO ASSOCIATED PHASE

- LEGEND
- V VEHICULAR PHASE
  - R RIGHT-TURN OVERLAP
  - P PEDESTRIAN PHASE
  - \* NUMBER REFERS TO ASSOCIATED PHASE

PHASE DESIGNATION DIAGRAM



PHASE DESIGNATION DIAGRAM



TYPE	NO. LAMPS	WATTAGE INCAND.	LED	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	9	135	17	0.50	76.5
(YELLOW)	9	135	25	0.25	56.3
(GREEN)	9	135	15	0.25	33.8
ARROW	4	135	12	0.10	4.8
PED. SIGNAL CONTROLLER	1	90	25		
ILLUM. SIGN				1.00	100.0
VIDEO CAMERA	3	15		1.00	45.0
LUMINAIRE	4	250		0.50	500.0
FLASHER					
ENERGY COSTS TO:					TOTAL= 816.4

TYPE	NO. LAMPS	WATTAGE INCAND.	LED	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	10	135	17	0.50	85.0
(YELLOW)	6	135	25	0.25	37.5
(GREEN)	6	135	15	0.25	22.5
ARROW	12	135	12	0.10	14.4
PED. SIGNAL CONTROLLER	1	90	25		
ILLUM. SIGN				1.00	100.0
VIDEO CAMERA	3	15		1.00	45.0
LUMINAIRE	4	250		0.50	500.0
FLASHER					
ENERGY COSTS TO:					TOTAL= 804.4

**KNIGHT**  
Engineers & Architects

USER NAME = dsiwo	DESIGNED - PMO	REVISED -
PLOT SCALE = 1:40	DRAWN - PMO	REVISED -
PLOT DATE = 8/16/2018	CHECKED - DMS	REVISED -
	DATE - 08/15/2018	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

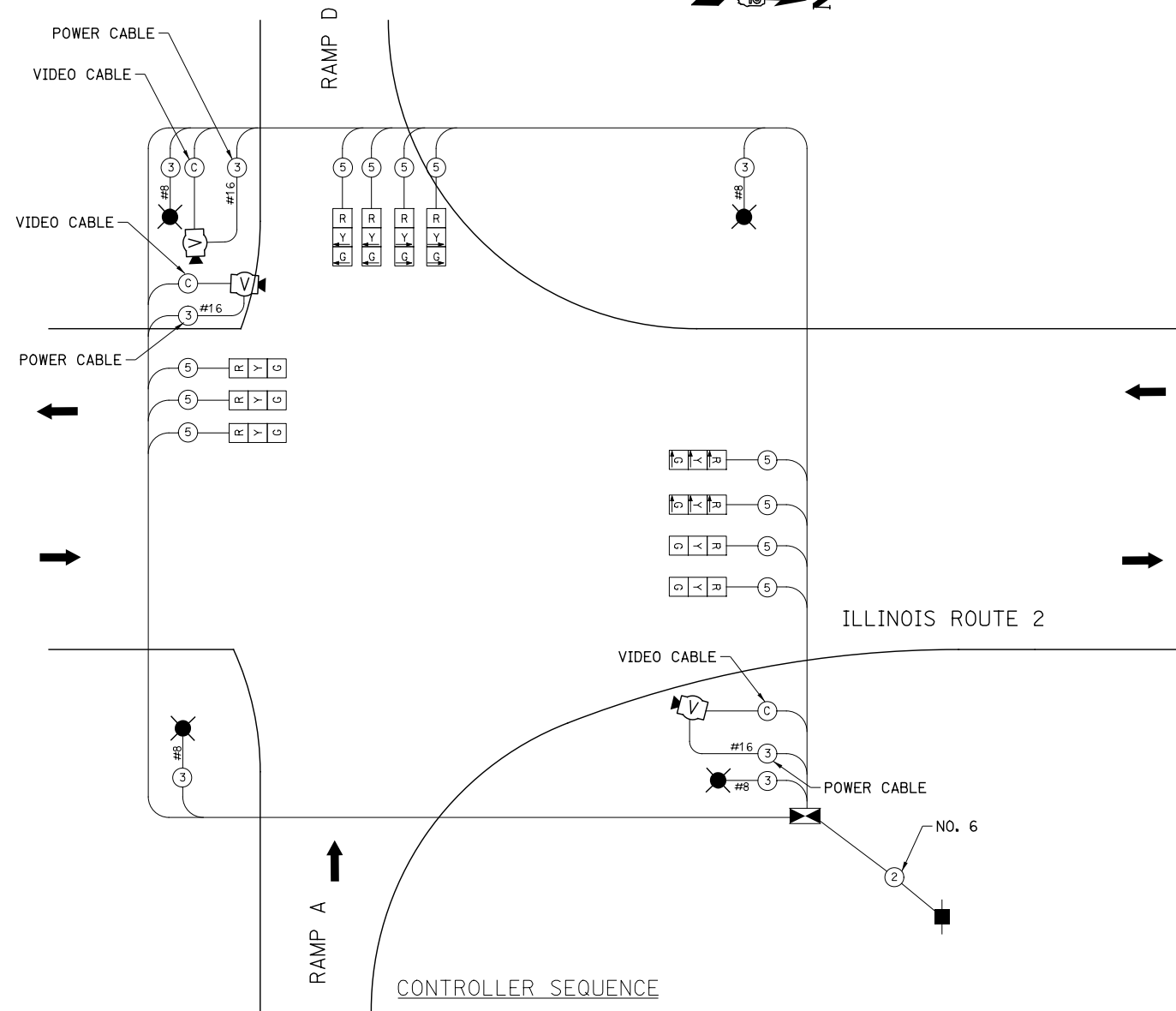
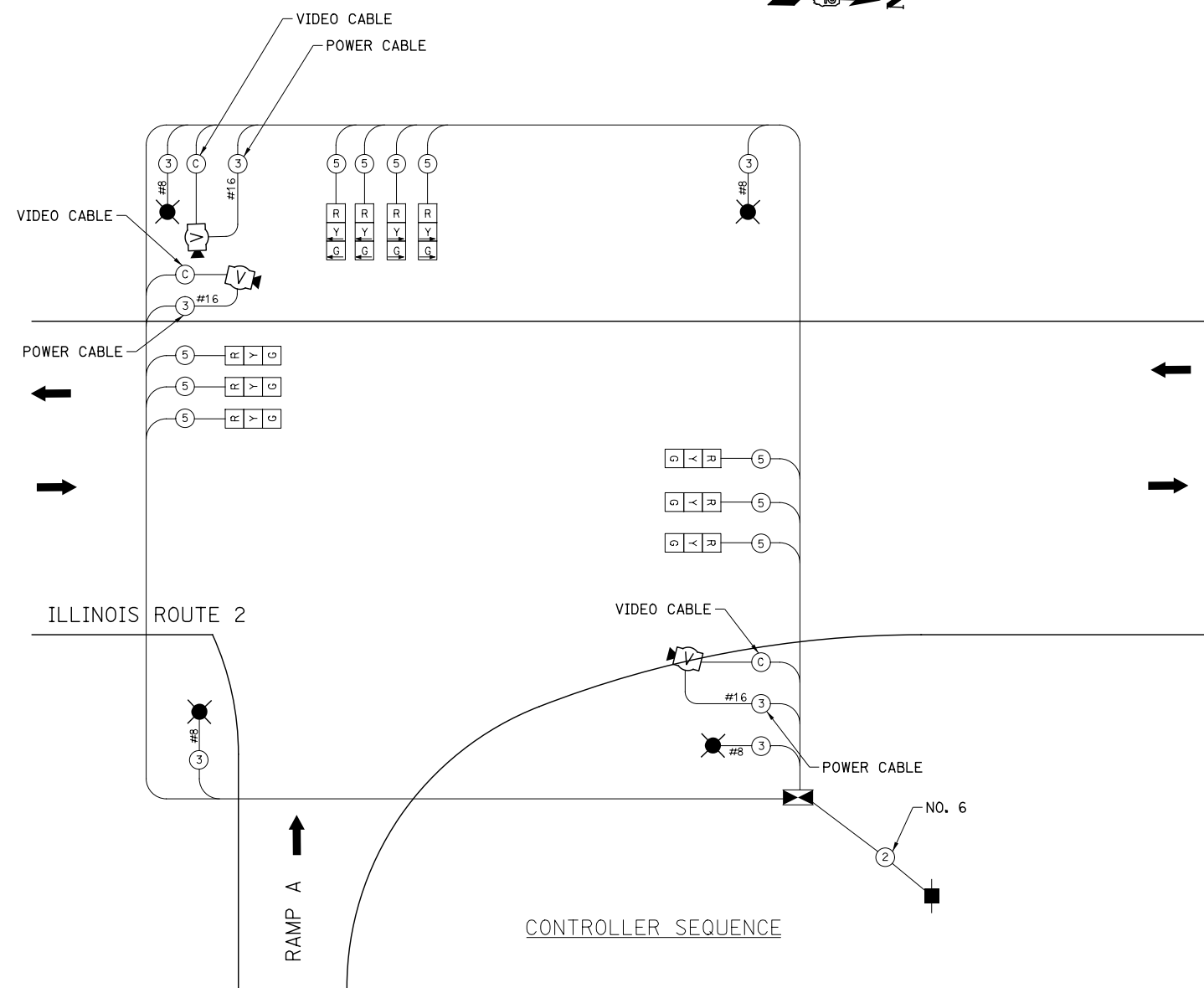
TEMPORARY TRAFFIC SIGNAL CABLE PLAN - RAMP A AND D

SHEET NO. OF SHEETS STA. TO STA.

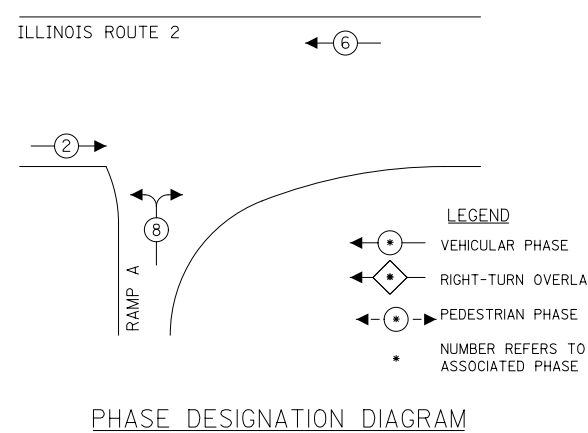
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	3HBR	WINNEBAGO	689	451
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 64B87	

STAGE 4

STAGES 4A, 4B, 5, 5A, 6, 6A, 6B, 7

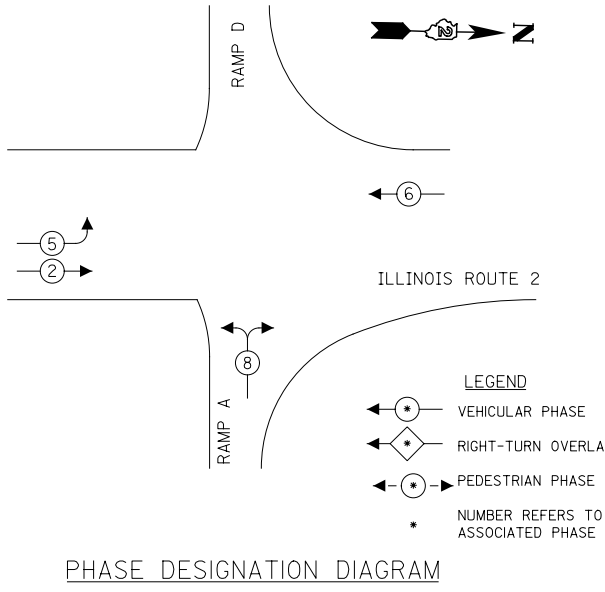


TYPE	NO. LAMPS	WATTAGE INCAND.	LED	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	10	135	17	0.50	85.0
(YELLOW)	6	135	25	0.25	37.5
(GREEN)	6	135	15	0.25	22.5
ARROW	8	135	12	0.10	9.6
PED. SIGNAL		90	25		
CONTROLLER	1	100		1.00	100.0
ILLUM. SIGN					
VIDEO CAMERA	3	15		1.00	45.0
LUMINAIRE	4	250		0.50	500.0
FLASHER					
ENERGY COSTS TO:				TOTAL=	799.6



### TEMPORARY CABLE DIAGRAM LEGEND

- R TEMPORARY 12" TRAFFIC SIGNAL SECTION
- C TEMPORARY CONTROLLER CABINET
- V TEMPORARY SERVICE INSTALLATION
- P TEMPORARY SIGNAL HEAD, PEDESTRIAN
- 2 DENOTES NUMBER OF CONDUCTORS. ALL CABLE NO. 14 EXCEPT AS INDICATED
- C VIDEO COAXIAL CABLE
- ⊙ TEMPORARY PEDESTRIAN PUSH-BUTTON DETECTOR
- V TEMPORARY VIDEO DETECTION CAMERA



TYPE	NO. LAMPS	WATTAGE INCAND.	LED	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	10	135	17	0.50	85.0
(YELLOW)	6	135	25	0.25	37.5
(GREEN)	6	135	15	0.25	22.5
ARROW	12	135	12	0.10	14.4
PED. SIGNAL		90	25		
CONTROLLER	1	100		1.00	100.0
ILLUM. SIGN					
VIDEO CAMERA	3	15		1.00	45.0
LUMINAIRE	4	250		0.50	500.0
FLASHER					
ENERGY COSTS TO:				TOTAL=	804.4

**KNIGHT**  
Engineers & Architects

USER NAME = dsiwo	DESIGNED - PMO	REVISED -
PLOT SCALE = 1:40	DRAWN - PMO	REVISED -
PLOT DATE = 8/16/2018	CHECKED - DMS	REVISED -
	DATE - 08/15/2018	REVISED -

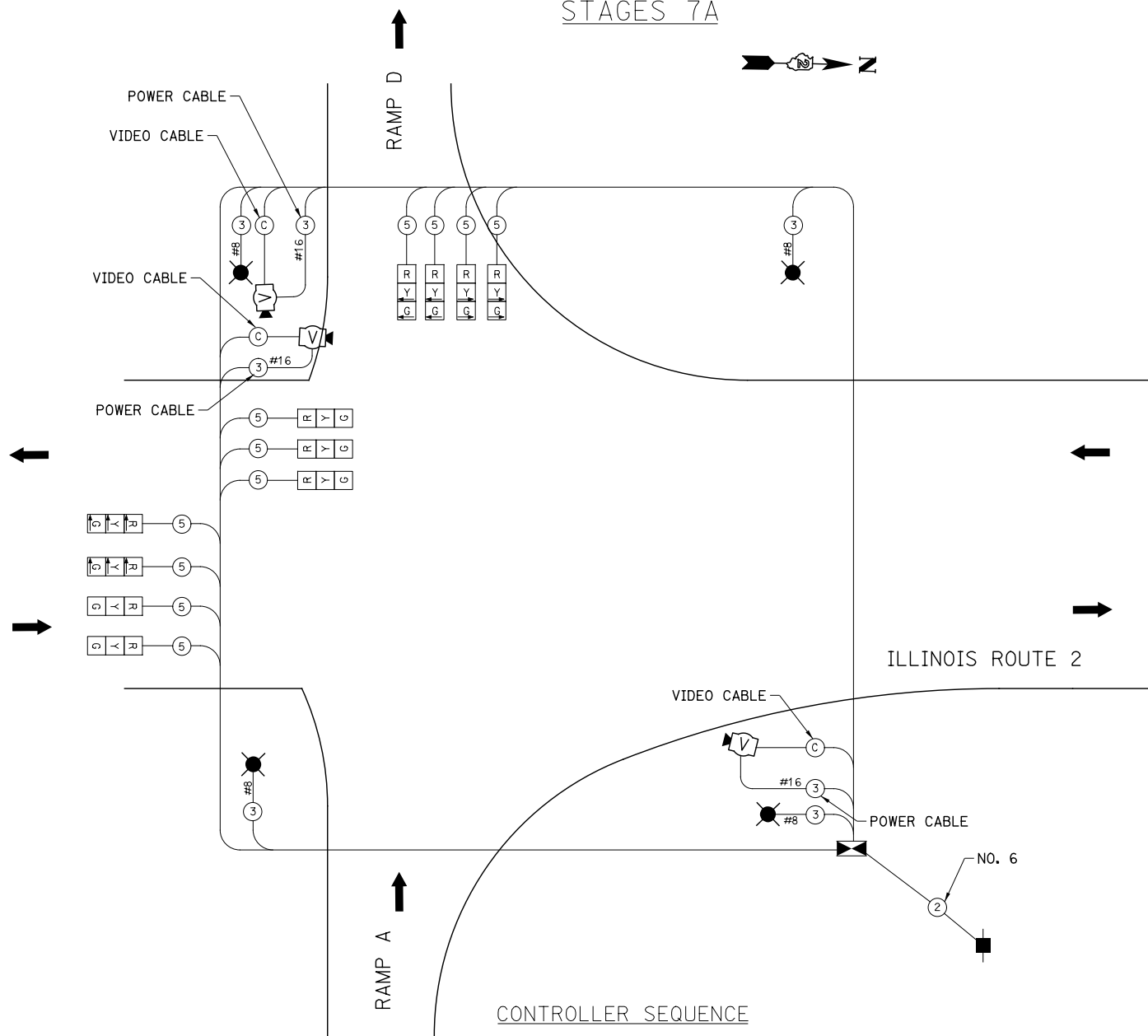
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL CABLE PLAN - RAMP A AND D

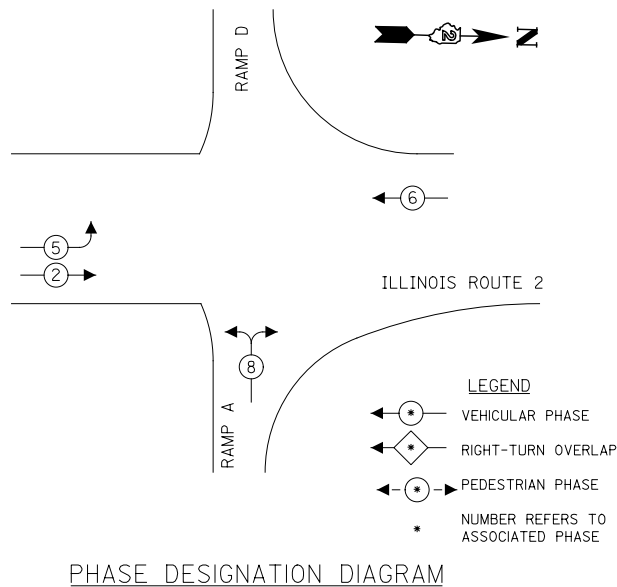
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	3HBR	WINNEBAGO	689	452
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 64B87	

SHEET NO. OF SHEETS STA. TO STA.

STAGES 7A



CONTROLLER SEQUENCE



TEMPORARY CABLE DIAGRAM LEGEND

- TEMPORARY 12" TRAFFIC SIGNAL SECTION
- TEMPORARY CONTROLLER CABINET
- TEMPORARY SERVICE INSTALLATION
- TEMPORARY SIGNAL HEAD, PEDESTRIAN
- DENOTES NUMBER OF CONDUCTORS. ALL CABLE NO. 14 EXCEPT AS INDICATED
- VIDEO COAXIAL CABLE
- TEMPORARY PEDESTRIAN PUSH-BUTTON DETECTOR
- TEMPORARY VIDEO DETECTION CAMERA

TYPE	NO. LAMPS	WATTAGE INCAND.	LED	% OPERATION	TOTAL WATTAGE	
SIGNAL (RED)	10	135	17	0.50	85.0	
(YELLOW)	6	135	25	0.25	37.5	
(GREEN)	6	135	15	0.25	22.5	
ARROW	12	135	12	0.10	14.4	
PED. SIGNAL		90	25			
CONTROLLER	1	100		1.00	100.0	
ILLUM. SIGN						
VIDEO CAMERA	3	15		1.00	45.0	
LUMINAIRE	4	250		0.50	500.0	
FLASHER						
ENERGY COSTS TO:					TOTAL=	804.4

ENERGY SUPPLY CONTACT:  
PHONE:  
COMPANY:

PHASE DESIGNATION DIAGRAM

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

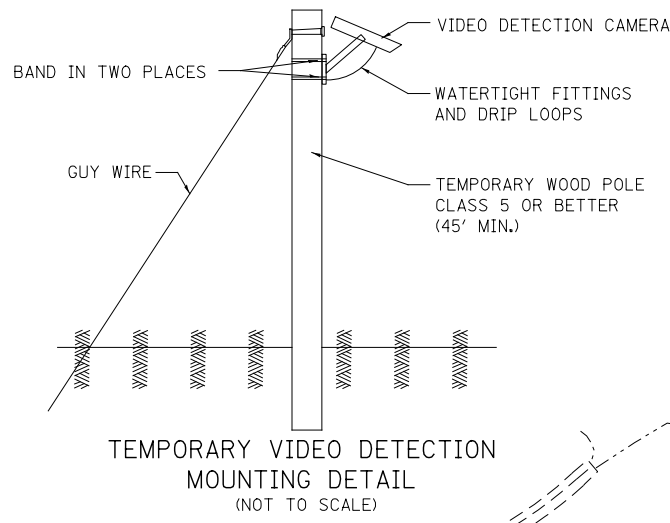
TEMPORARY TRAFFIC SIGNAL CABLE PLAN - RAMP A AND D

SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	3HBR	WINNEBAGO	689	453
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 64B87	

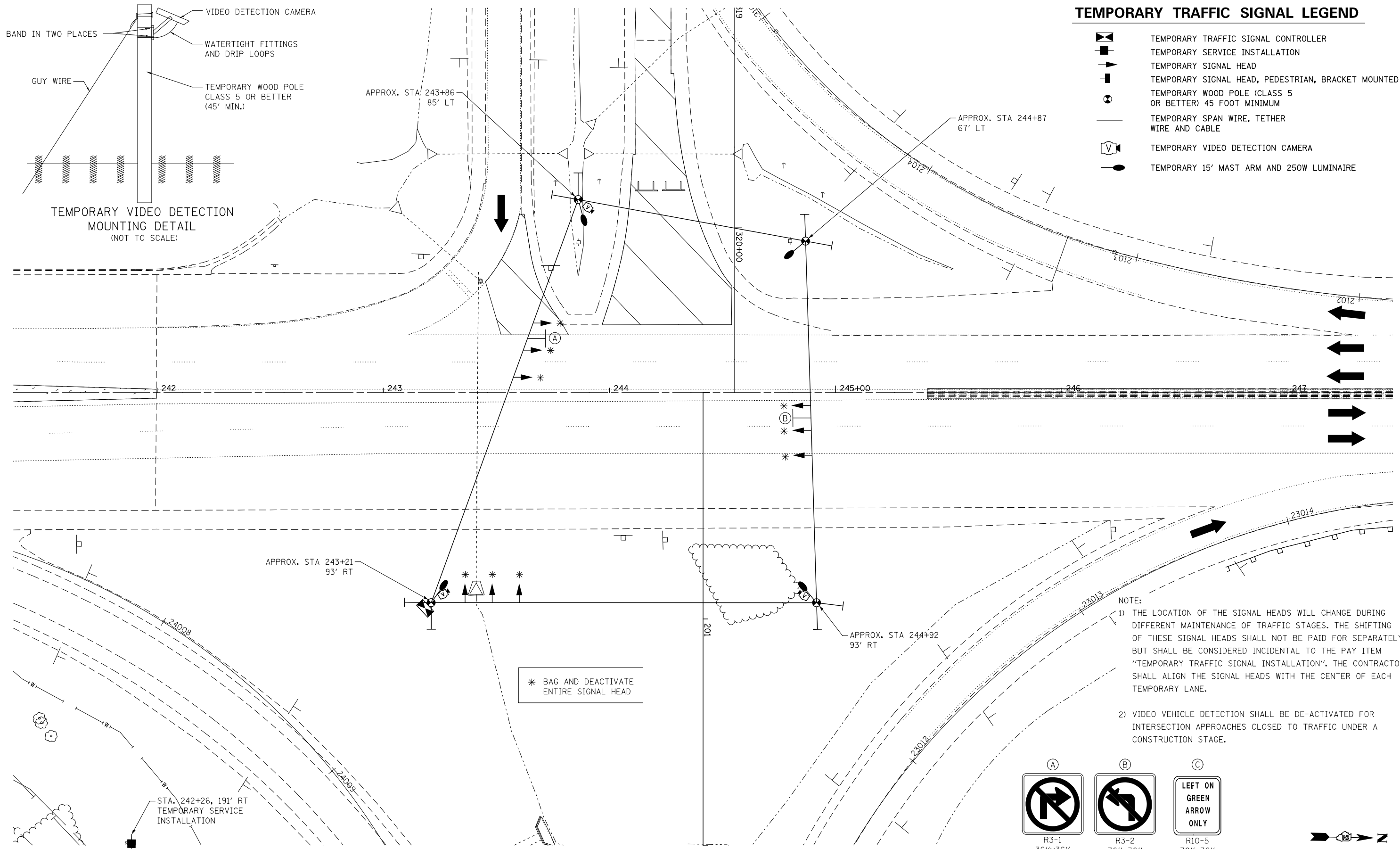
**KNIGHT**  
Engineers & Architects

USER NAME = dsiwo	DESIGNED - PMO	REVISED -
PLOT SCALE = 1:40	DRAWN - PMO	REVISED -
PLOT DATE = 8/16/2018	CHECKED - DMS	REVISED -
	DATE - 08/15/2018	REVISED -

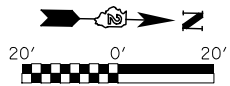
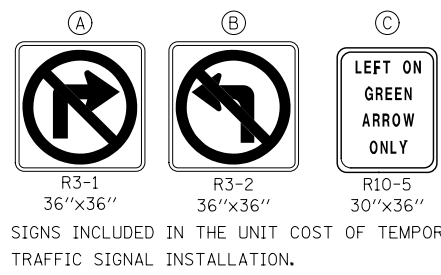


**TEMPORARY TRAFFIC SIGNAL LEGEND**

- TEMPORARY TRAFFIC SIGNAL CONTROLLER
- TEMPORARY SERVICE INSTALLATION
- TEMPORARY SIGNAL HEAD
- TEMPORARY SIGNAL HEAD, PEDESTRIAN, BRACKET MOUNTED
- TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT MINIMUM
- TEMPORARY SPAN WIRE, TETHER WIRE AND CABLE
- TEMPORARY VIDEO DETECTION CAMERA
- TEMPORARY 15' MAST ARM AND 250W LUMINAIRE



NOTE:  
 1) THE LOCATION OF THE SIGNAL HEADS WILL CHANGE DURING DIFFERENT MAINTENANCE OF TRAFFIC STAGES. THE SHIFTING OF THESE SIGNAL HEADS SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED INCIDENTAL TO THE PAY ITEM "TEMPORARY TRAFFIC SIGNAL INSTALLATION". THE CONTRACTOR SHALL ALIGN THE SIGNAL HEADS WITH THE CENTER OF EACH TEMPORARY LANE.  
 2) VIDEO VEHICLE DETECTION SHALL BE DE-ACTIVATED FOR INTERSECTION APPROACHES CLOSED TO TRAFFIC UNDER A CONSTRUCTION STAGE.



**TEMPORARY TRAFFIC SIGNAL INSTALLATION  
STAGE 1**



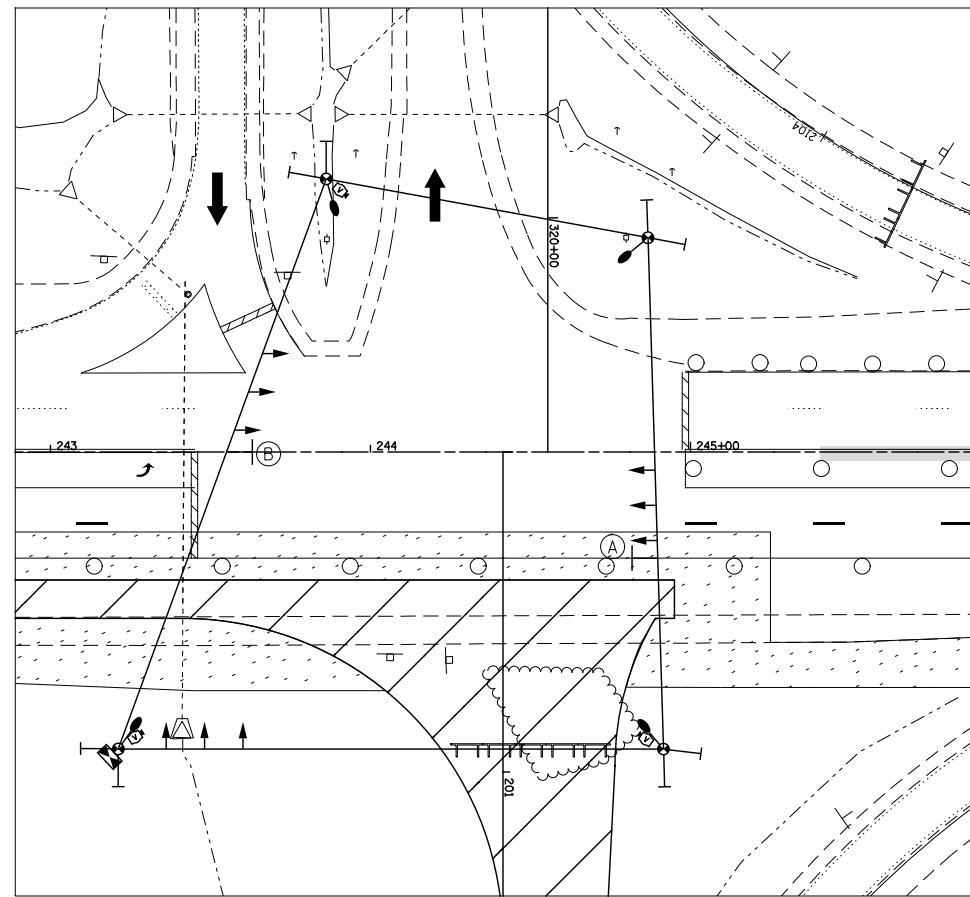
USER NAME = dsiwo	DESIGNED - PMO	REVISED -
PLOT SCALE = 1:40	DRAWN - PMO	REVISED -
PLOT DATE = 8/16/2018	CHECKED - DMS	REVISED -
	DATE - 08/15/2018	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

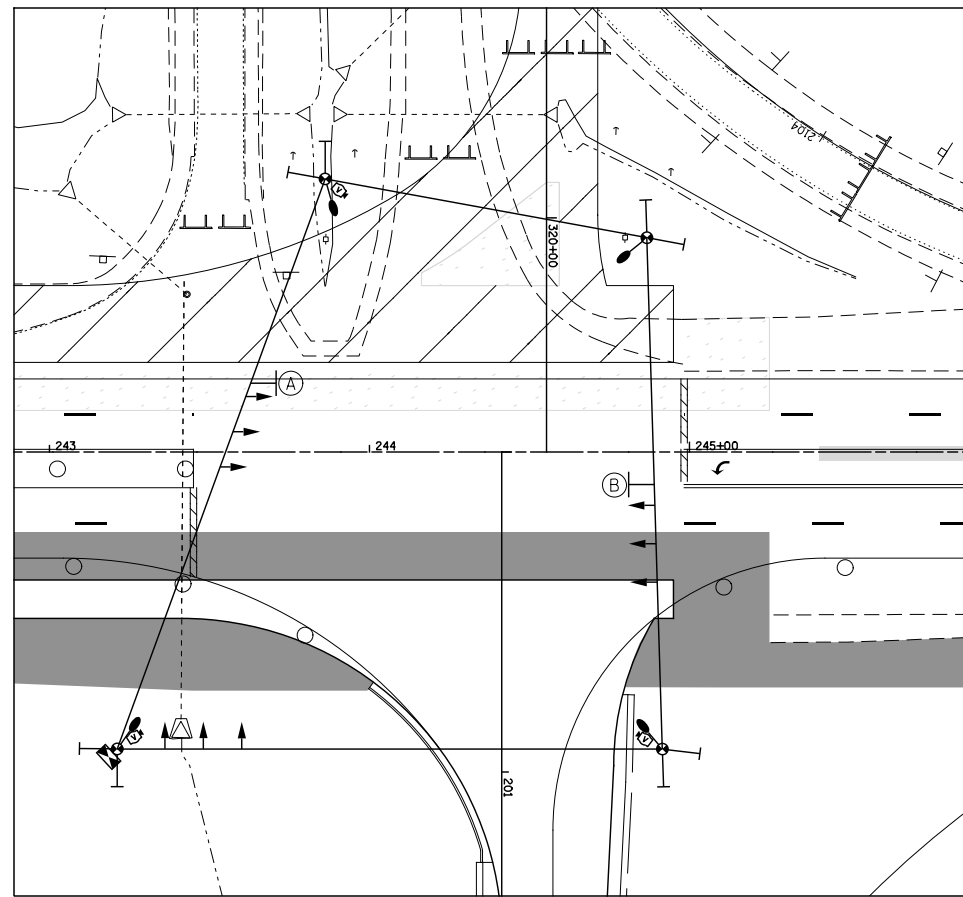
**TEMPORARY TRAFFIC SIGNAL INSTALLATION  
MOT STAGING PLAN  
ILLINOIS ROUTE 2 & RAMP B & RAMP C**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	3HBR	WINNEBAGO	689	454
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 64B87	

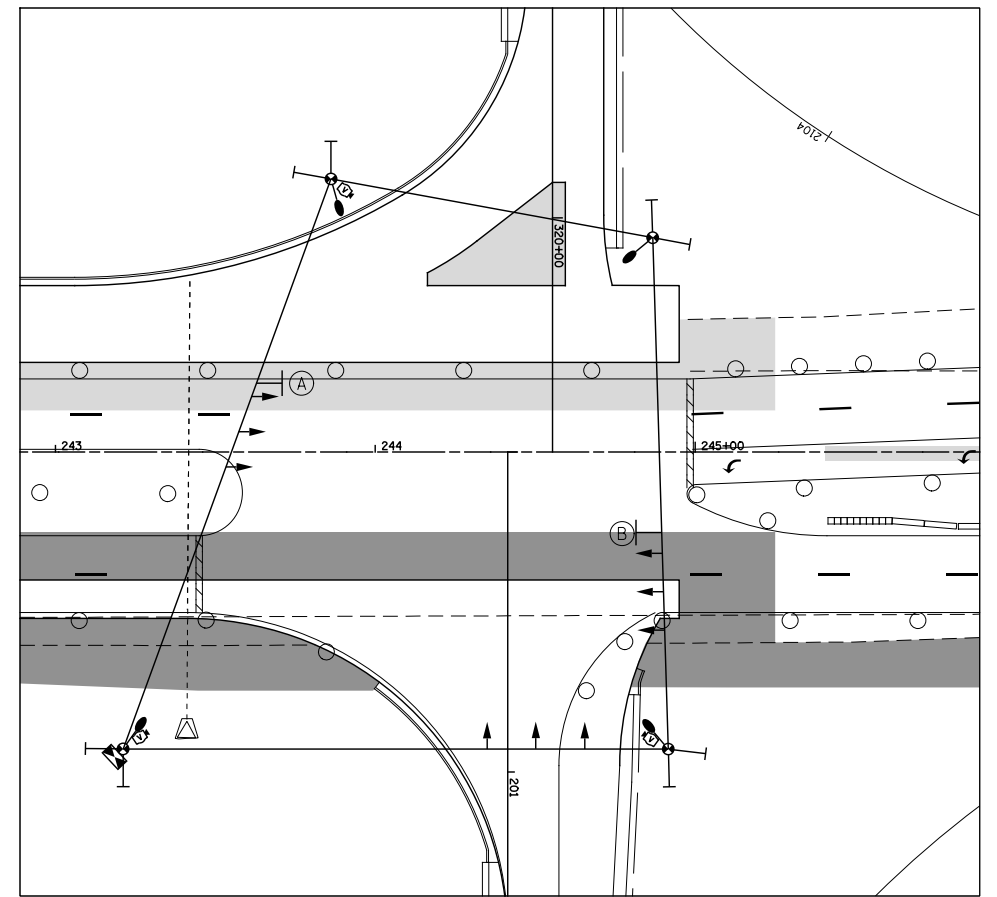
SHEET NO.	OF SHEETS	STA.	TO STA.
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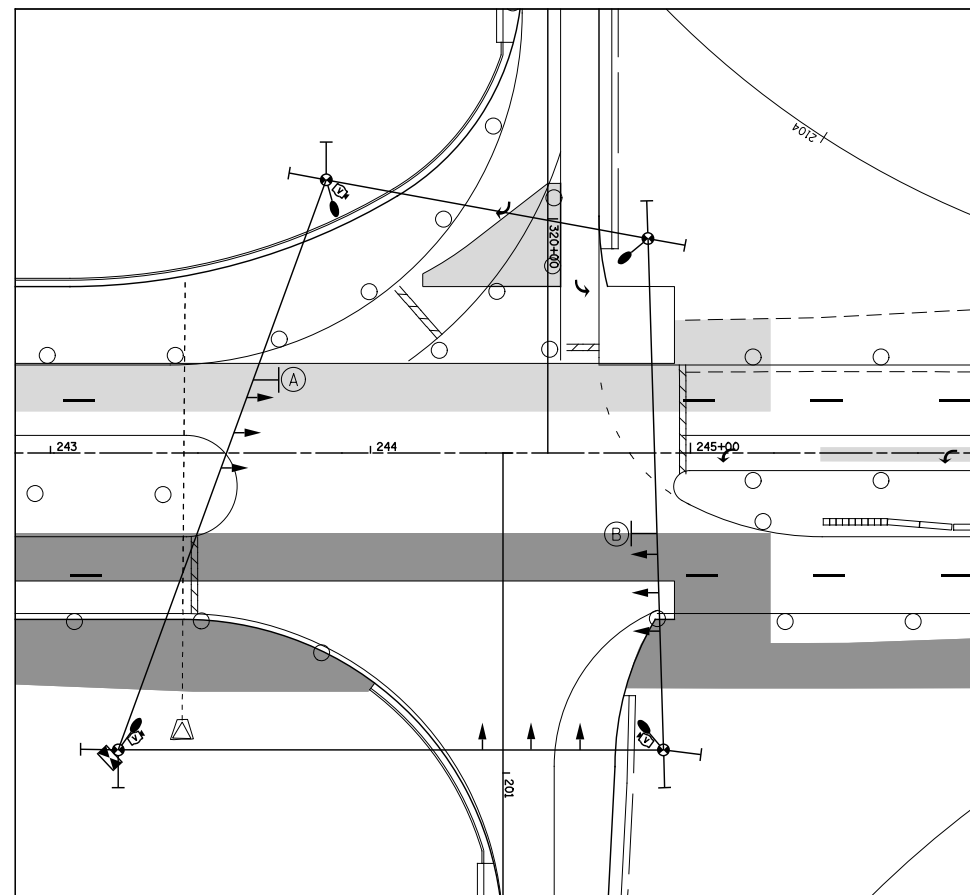
TEMPORARY TRAFFIC SIGNAL STAGE 2



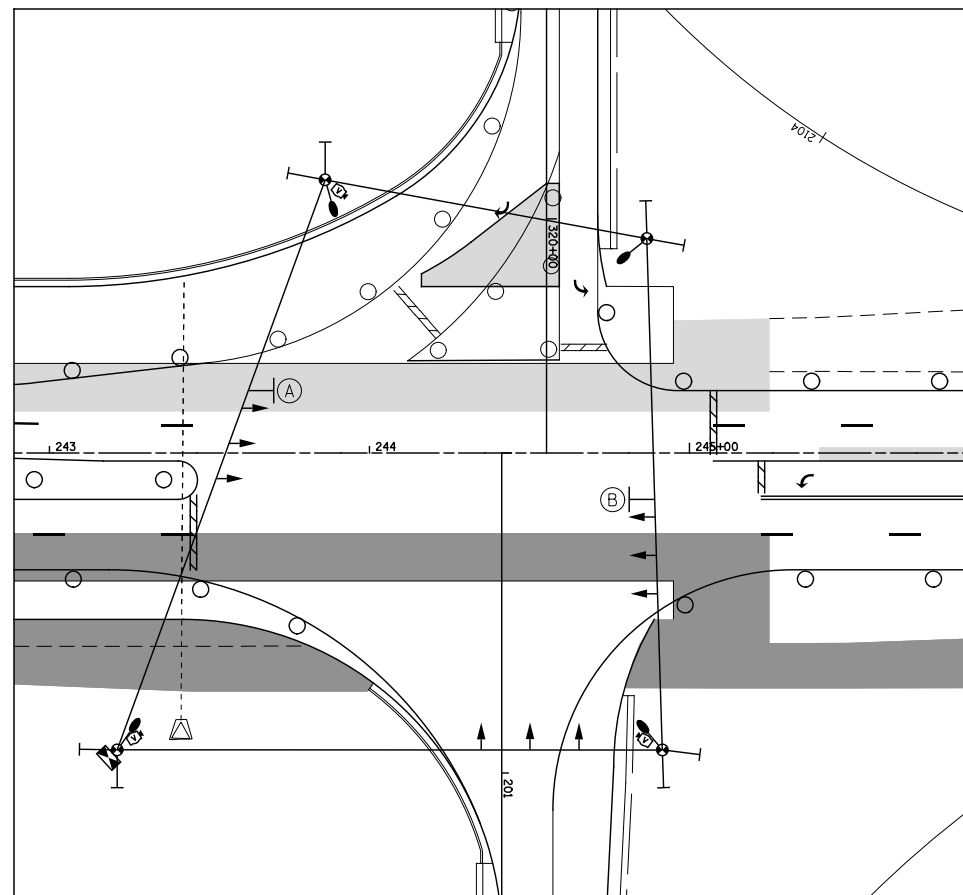
TEMPORARY TRAFFIC SIGNAL STAGE 3



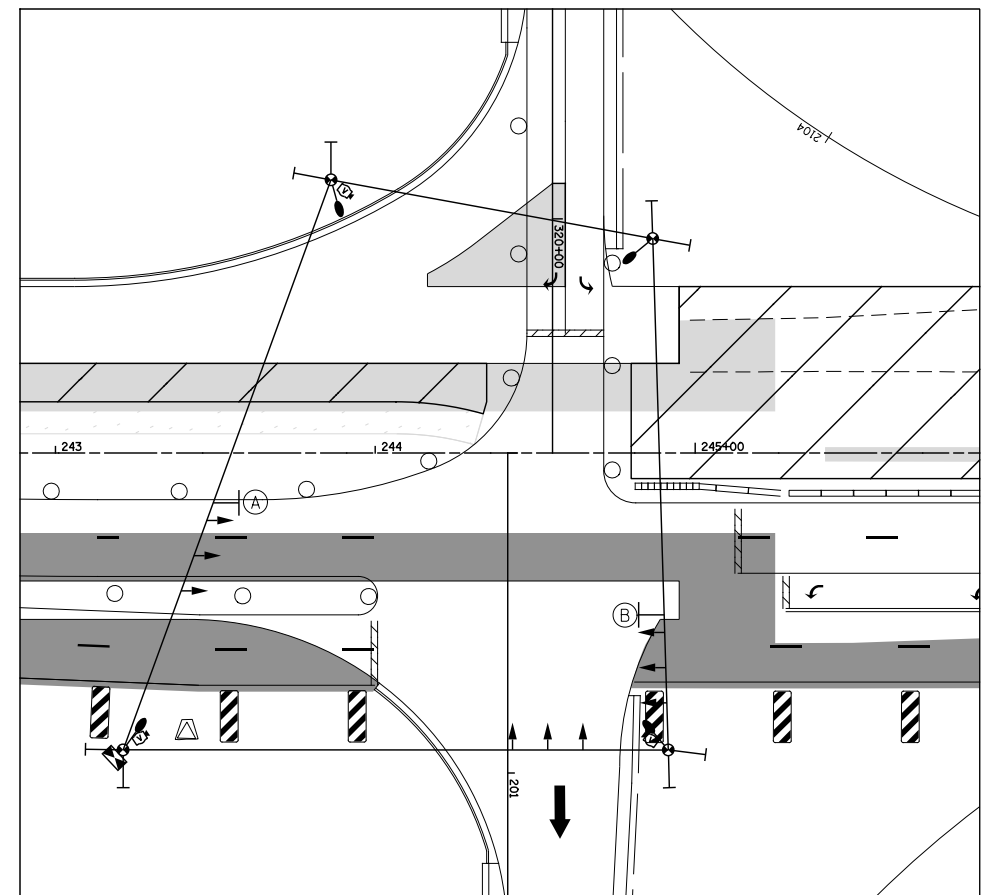
TEMPORARY TRAFFIC SIGNAL STAGE 3A



TEMPORARY TRAFFIC SIGNAL STAGE 4



TEMPORARY TRAFFIC SIGNAL STAGE 4A, 4B



TEMPORARY TRAFFIC SIGNAL STAGE 5

**KNIGHT**  
Engineers & Architects

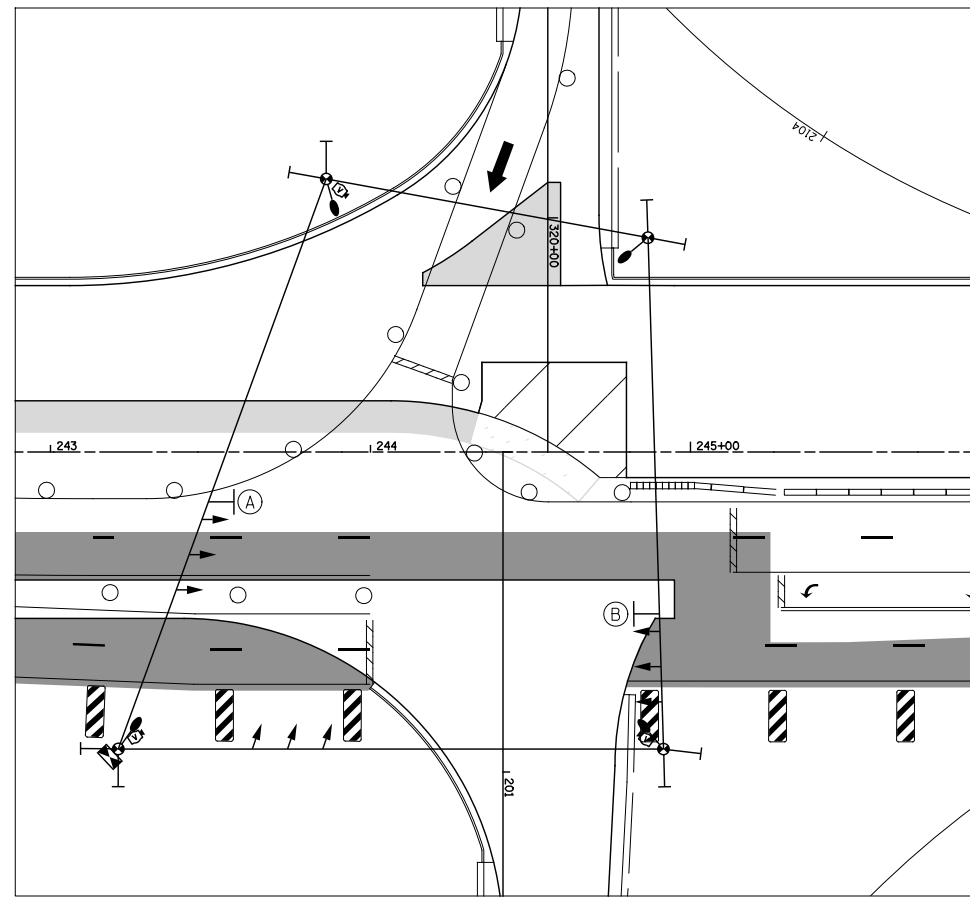
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PLOT SCALE = 1:60	DRAWN - PMO	REVISED -
PLOT DATE = 8/16/2018	CHECKED - DMS	REVISED -
	DATE - 08/15/2018	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

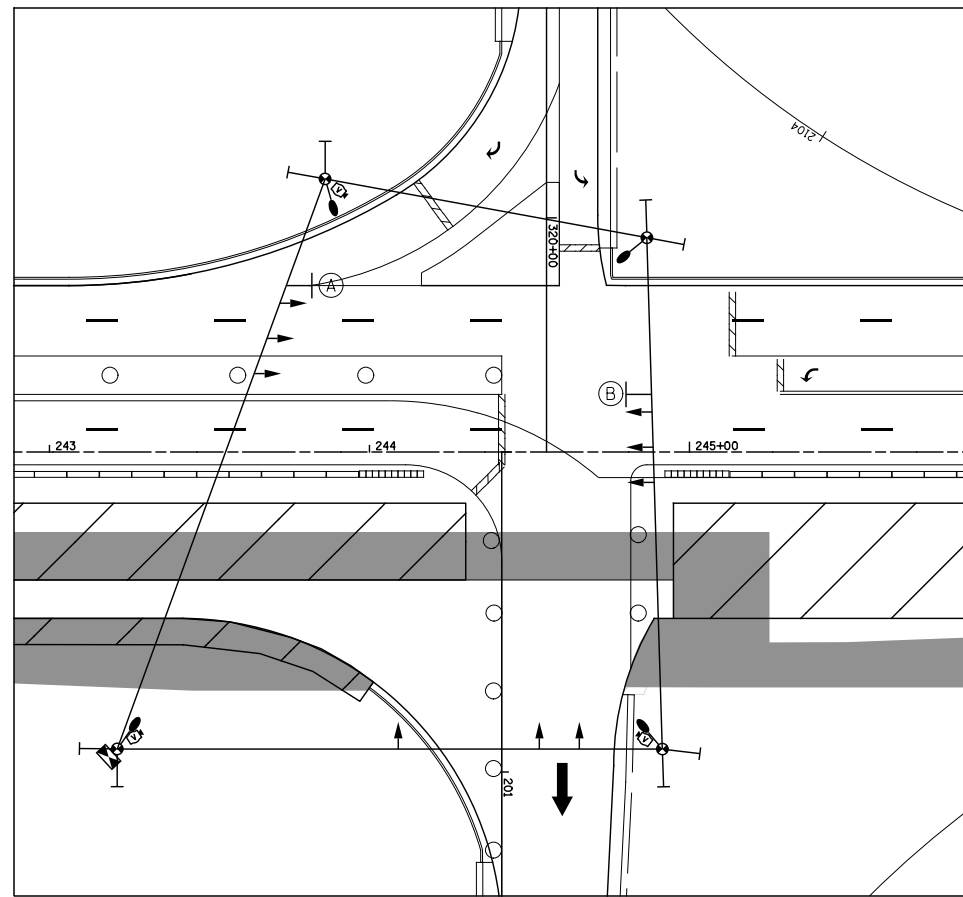
TEMPORARY TRAFFIC SIGNAL INSTALLATION  
MOT STAGING PLAN  
ILLINOIS ROUTE 2 & RAMP B & RAMP C

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	3HBR	WINNEBAGO	689	455
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 64B87	

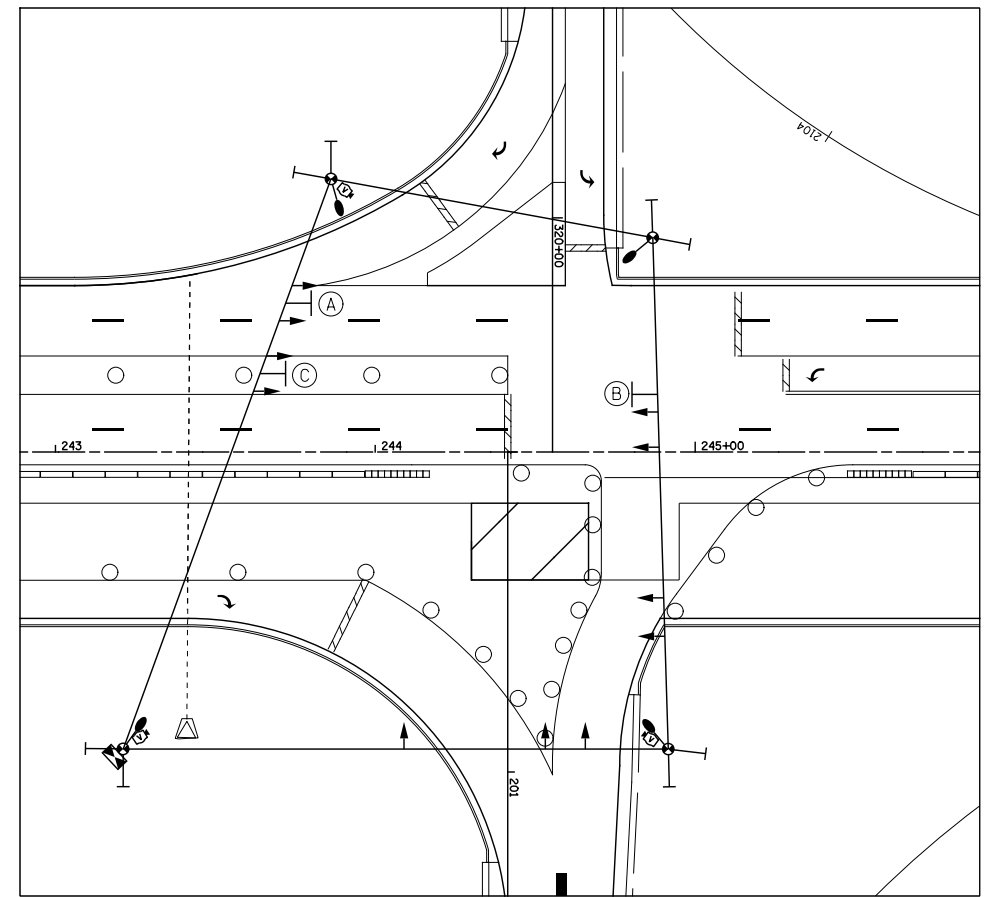
SHEET NO. OF SHEETS STA. TO STA.



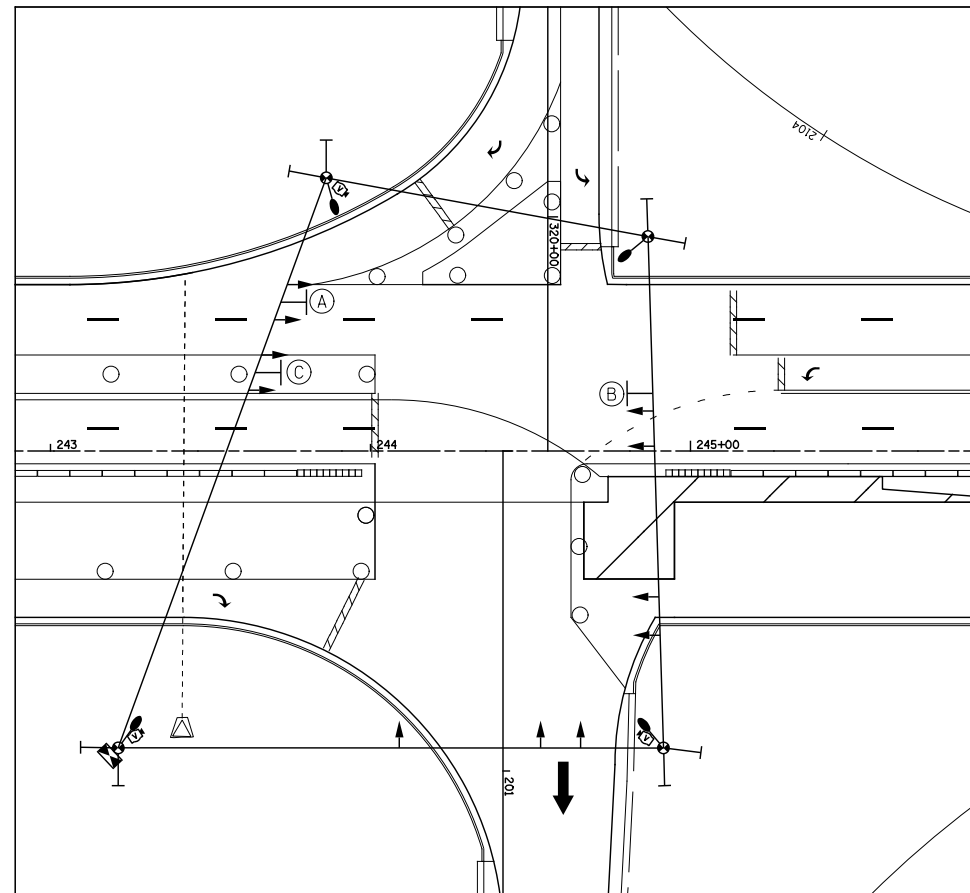
TEMPORARY TRAFFIC SIGNAL STAGE 5A



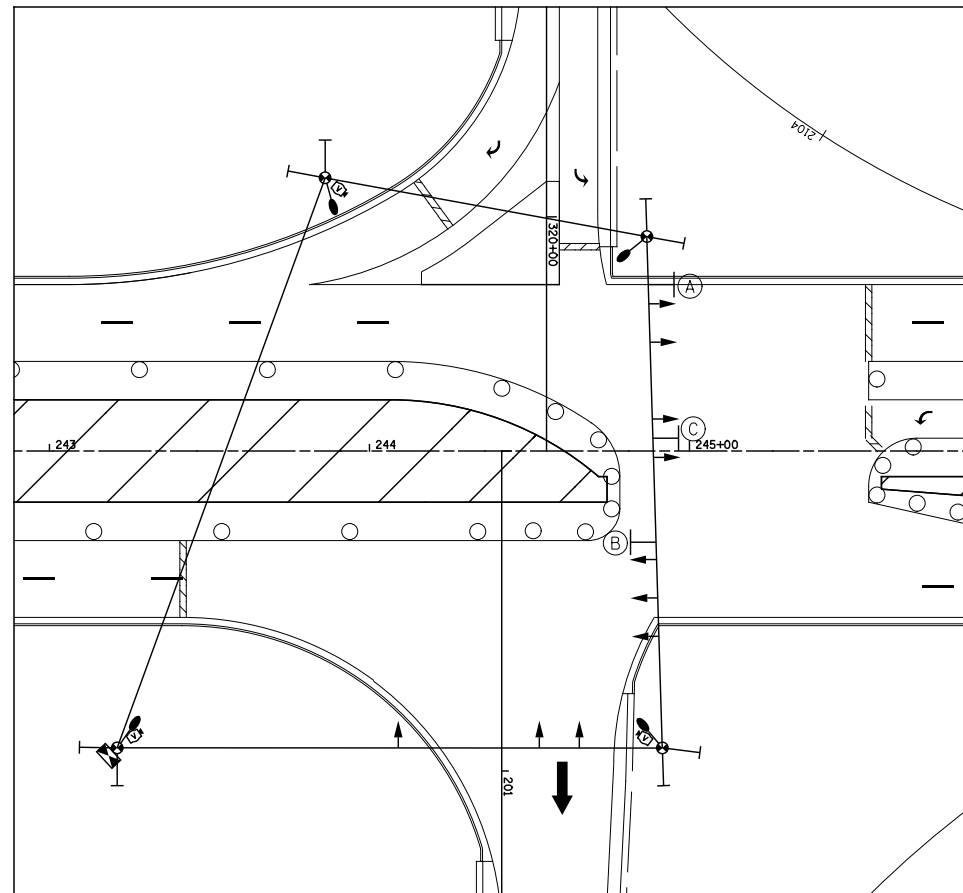
TEMPORARY TRAFFIC SIGNAL STAGE 6



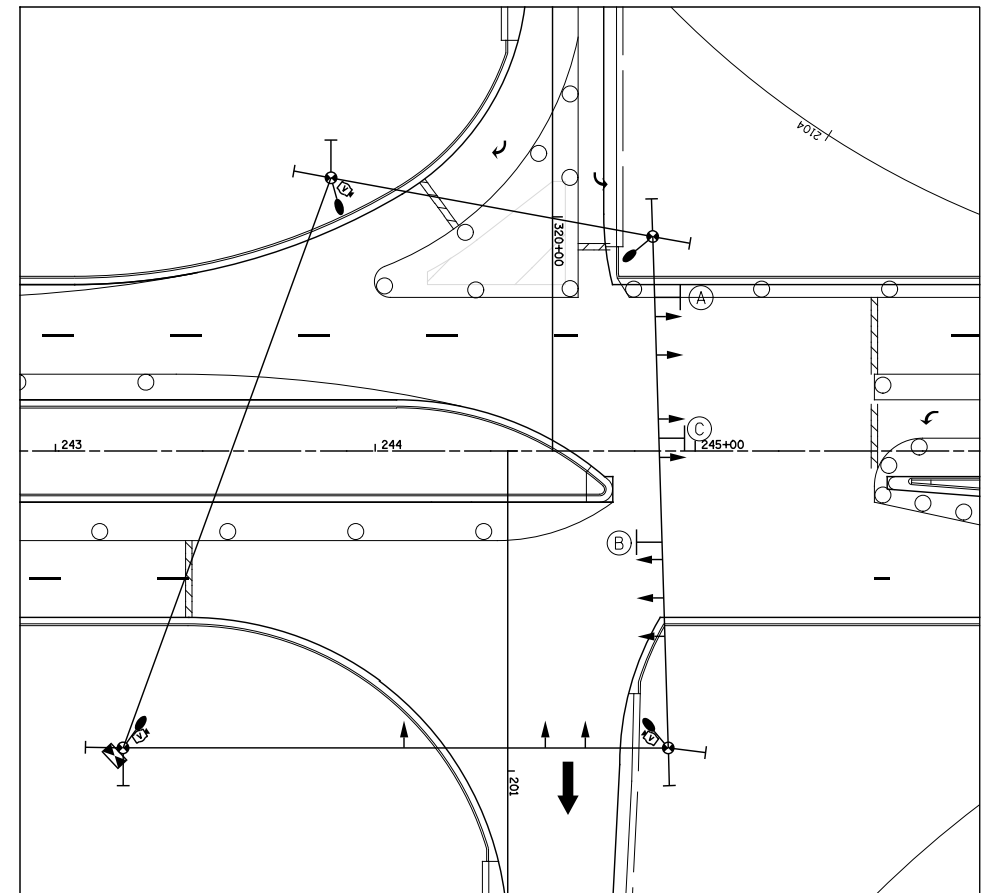
TEMPORARY TRAFFIC SIGNAL STAGE 6A



TEMPORARY TRAFFIC SIGNAL STAGE 6B



TEMPORARY TRAFFIC SIGNAL STAGE 7



TEMPORARY TRAFFIC SIGNAL STAGE 7A

**KNIGHT**  
Engineers & Architects

USER NAME = dsilwo	DESIGNED - PMO	REVISED -
PLOT SCALE = 1:60	DRAWN - PMO	REVISED -
PLOT DATE = 8/16/2018	CHECKED - DMS	REVISED -
	DATE - 08/15/2018	REVISED -

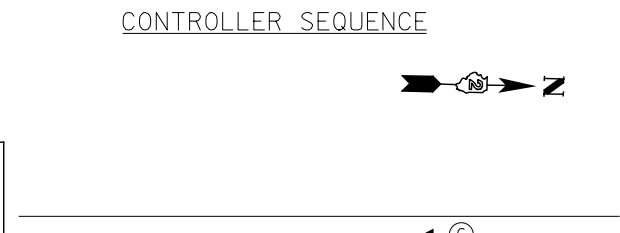
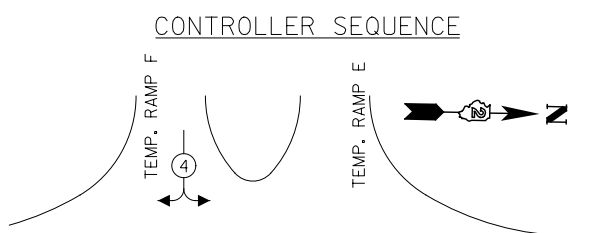
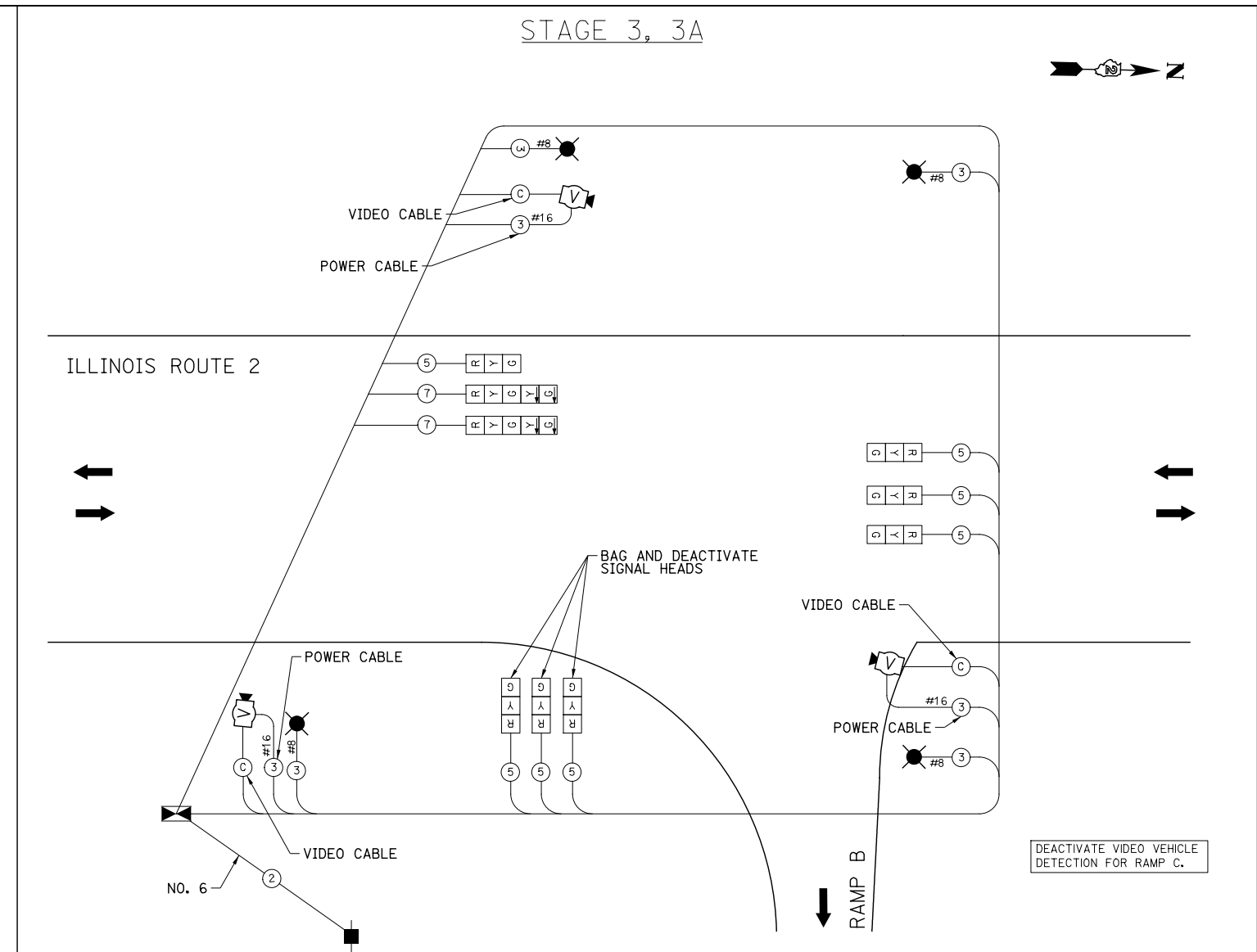
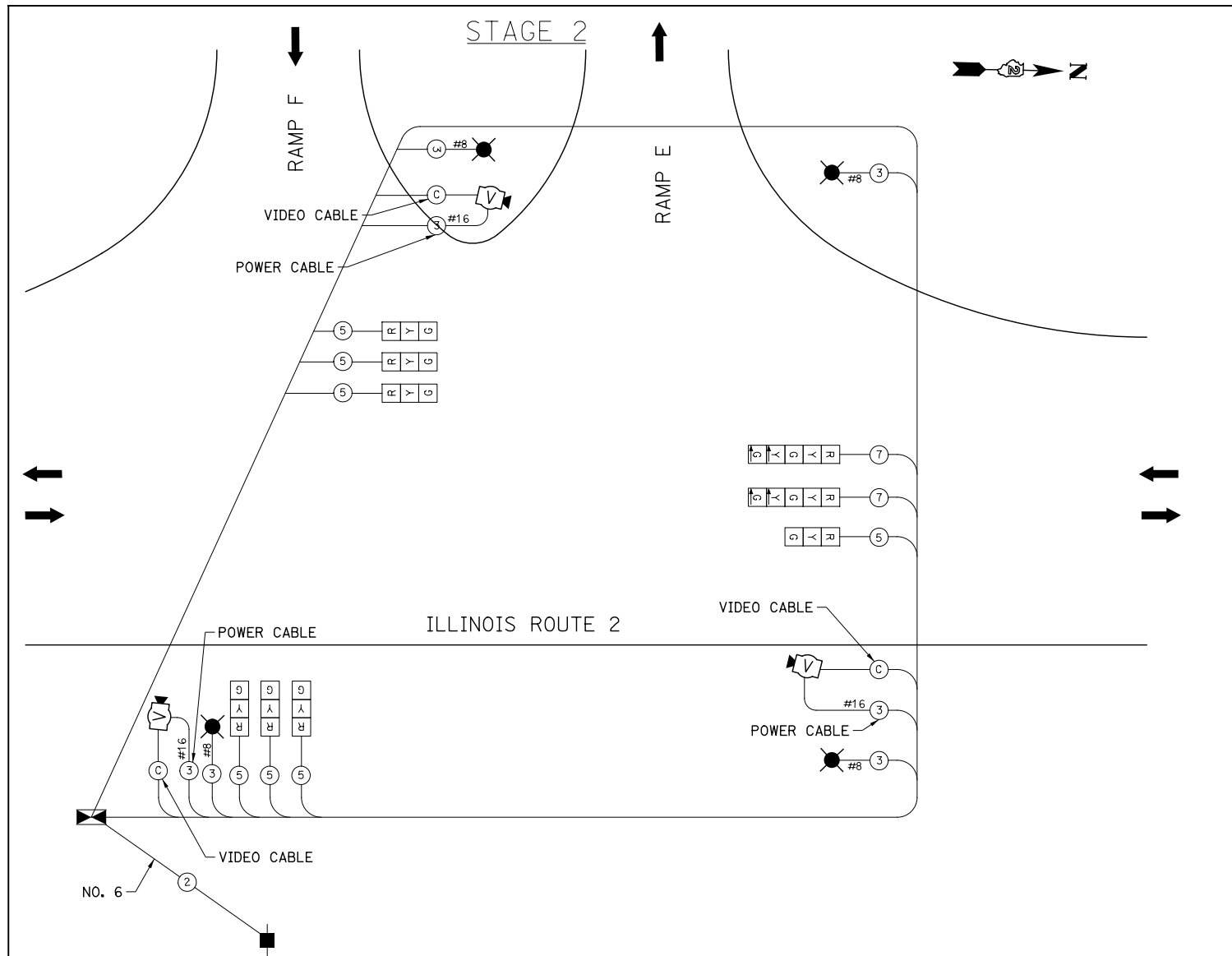
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION  
MOT STAGING PLAN  
ILLINOIS ROUTE 2 & RAMP B & RAMP C

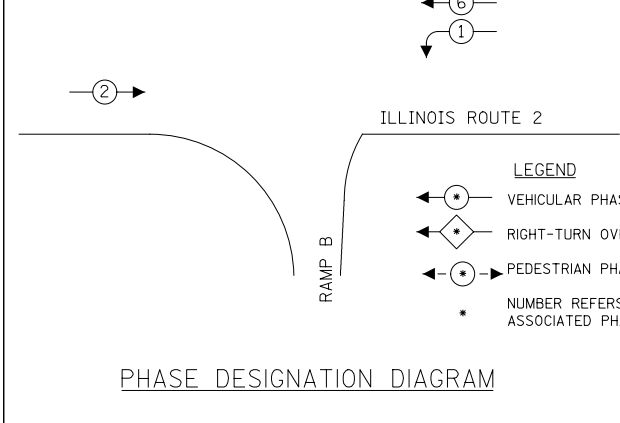
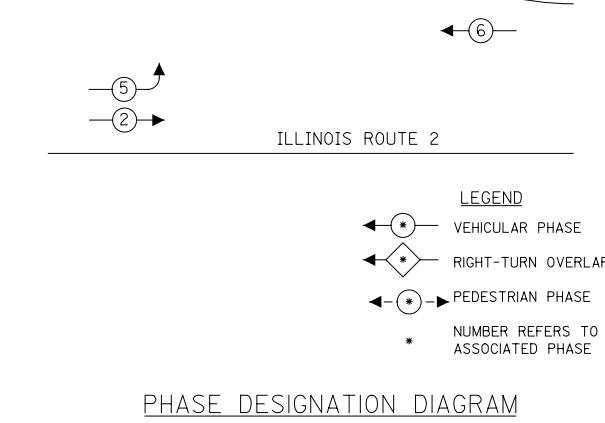
SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	3HBR	WINNEBAGO	689	456
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		





TYPE	NO. LAMPS	WATTAGE INCAND.	LED	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	9	135	17	0.50	76.5
(YELLOW)	9	135	25	0.25	56.3
(GREEN)	9	135	15	0.25	33.8
ARROW	4	135	12	0.10	4.8
PED. SIGNAL CONTROLLER	1	90	25	1.00	100.0
ILLUM. SIGN					
VIDEO CAMERA	3	15		1.00	45.0
LUMINAIRE	4	250		0.50	500.0
FLASHER					
ENERGY COSTS TO:				TOTAL=	816.4



### TEMPORARY CABLE DIAGRAM LEGEND

- R TEMPORARY 12" TRAFFIC SIGNAL SECTION
- C TEMPORARY CONTROLLER CABINET
- V TEMPORARY SERVICE INSTALLATION
- P TEMPORARY SIGNAL HEAD, PEDESTRIAN
- ② DENOTES NUMBER OF CONDUCTORS. ALL CABLE NO. 14 EXCEPT AS INDICATED
- C VIDEO COAXIAL CABLE
- ⊙ TEMPORARY PEDESTRIAN PUSH-BUTTON DETECTOR
- V TEMPORARY VIDEO DETECTION CAMERA
- L TEMPORARY 250 WATT LUMINAIRE

TYPE	NO. LAMPS	WATTAGE INCAND.	LED	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	6	135	17	0.50	51.0
(YELLOW)	6	135	25	0.25	37.5
(GREEN)	6	135	15	0.25	22.5
ARROW	4	135	12	0.10	4.8
PED. SIGNAL CONTROLLER	1	90	25	1.00	100.0
ILLUM. SIGN					
VIDEO CAMERA	2	15		1.00	30.0
LUMINAIRE	4	250		0.50	500.0
FLASHER					
ENERGY COSTS TO:				TOTAL=	745.8

**KNIGHT**  
Engineers & Architects

USER NAME = dsiwo	DESIGNED - PMO	REVISED -
PLOT SCALE = 1:40	DRAWN - PMO	REVISED -
PLOT DATE = 8/16/2018	CHECKED - DMS	REVISED -
	DATE - 08/15/2018	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

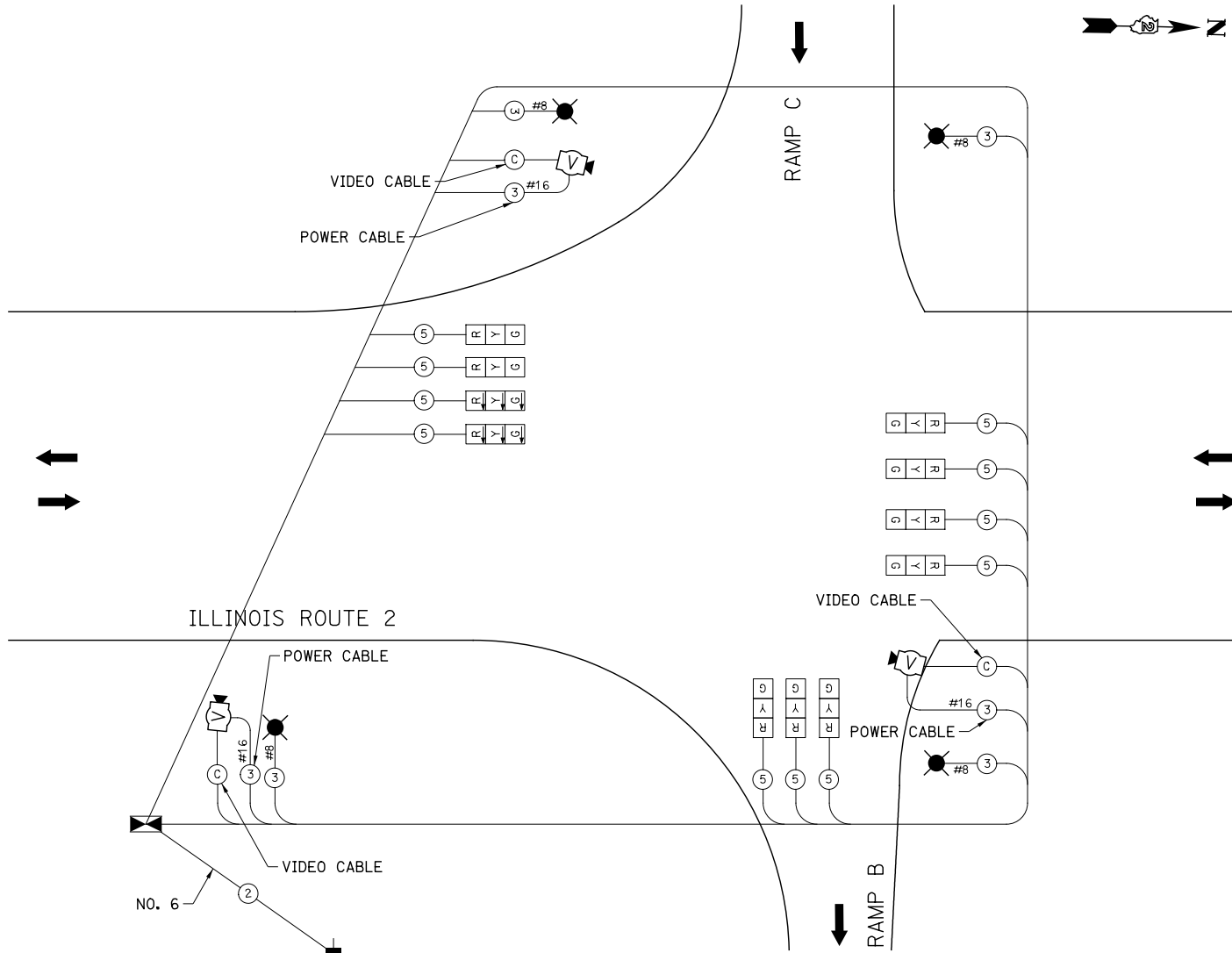
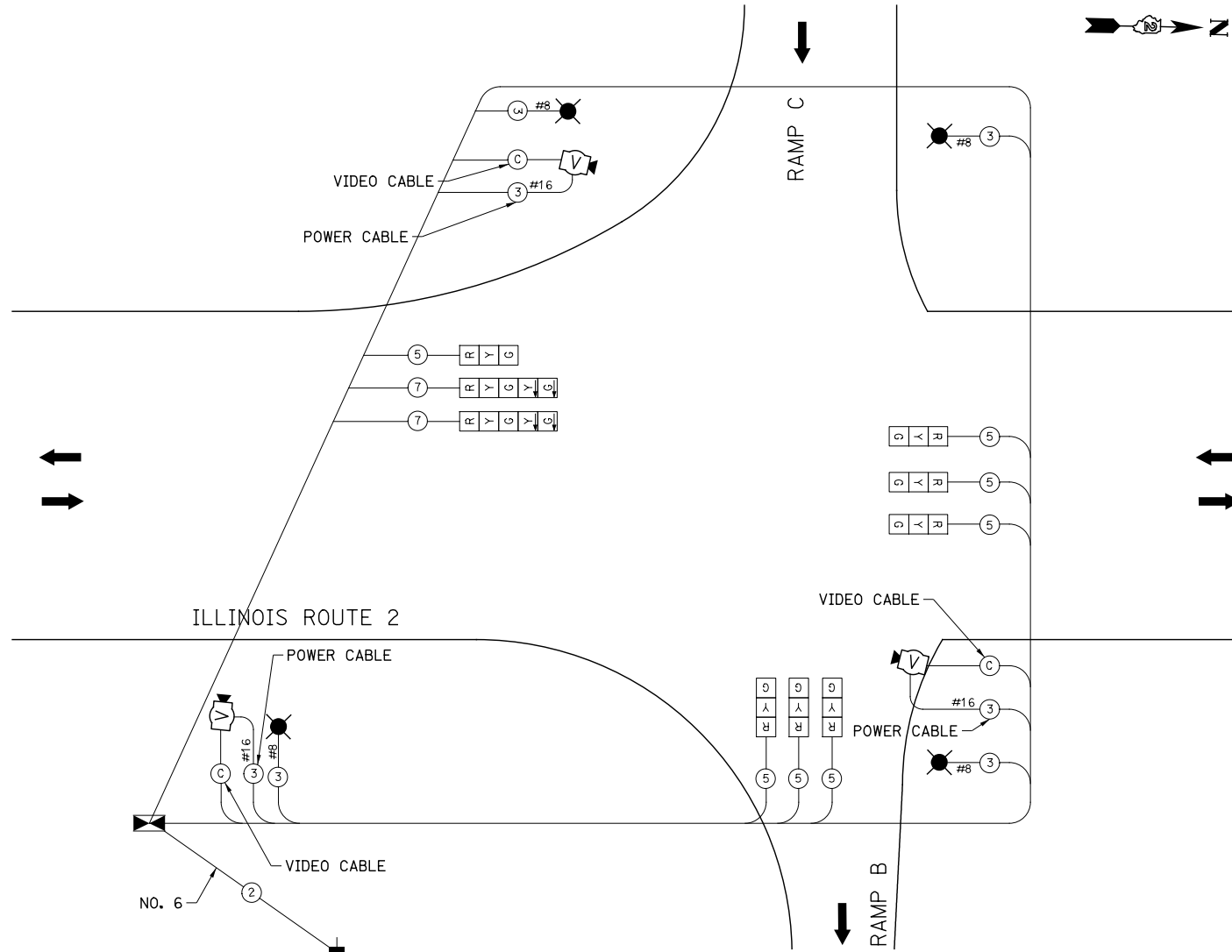
TEMPORARY TRAFFIC SIGNAL CABLE PLAN - RAMP B AND C

F.A.P. RTE. 301	SECTION 3HBR	COUNTY WINNEBAGO	TOTAL SHEETS 689	SHEET NO. 457
CONTRACT NO. 64B87			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	

SHEET NO. OF SHEETS STA. TO STA.

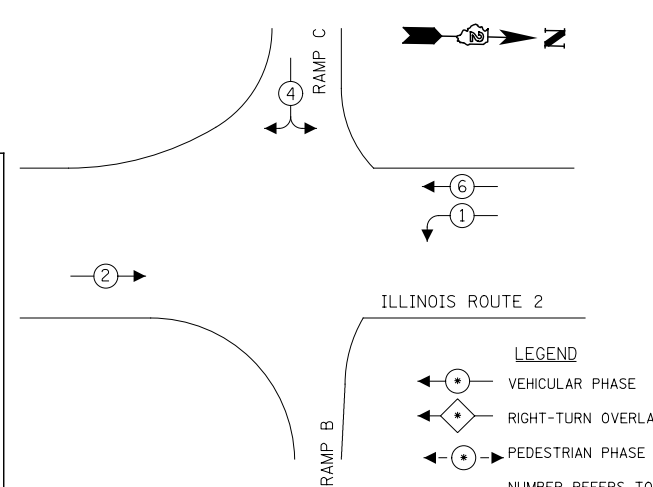
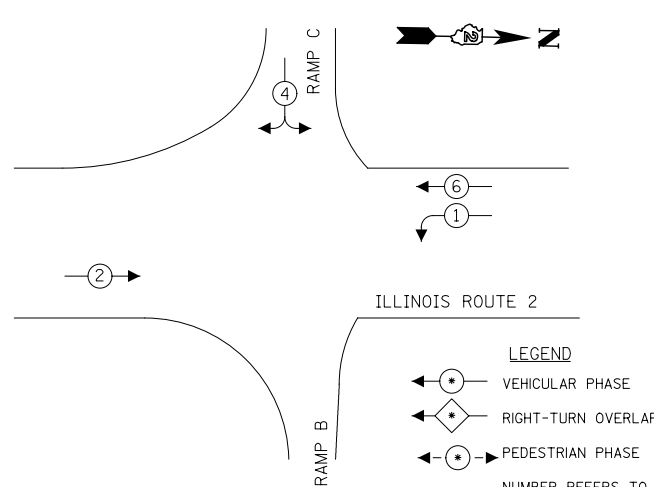
STAGE 4, 4A, 4B, 5, 5A, 6

STAGE 6A, 6B



CONTROLLER SEQUENCE

CONTROLLER SEQUENCE



TYPE	NO. LAMPS	WATTAGE INCAND.	LED	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	9	135	17	0.50	76.5
(YELLOW)	9	135	25	0.25	56.3
(GREEN)	9	135	15	0.25	33.8
ARROW	4	135	12	0.10	4.8
PED. SIGNAL		90	25	1.00	
CONTROLLER	1	100		1.00	100.0
ILLUM. SIGN					
VIDEO CAMERA	3	15		1.00	45.0
LUMINAIRE	4	250		0.50	500.0
FLASHER					
ENERGY COSTS TO:				TOTAL=	816.4

TYPE	NO. LAMPS	WATTAGE INCAND.	LED	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	6	135	17	0.50	51.0
(YELLOW)	6	135	25	0.25	37.5
(GREEN)	6	135	15	0.25	22.5
ARROW	4	135	12	0.10	4.8
PED. SIGNAL		90	25	1.00	
CONTROLLER	1	100		1.00	100.0
ILLUM. SIGN					
VIDEO CAMERA	2	15		1.00	30.0
LUMINAIRE	4	250		0.50	500.0
FLASHER					
ENERGY COSTS TO:				TOTAL=	745.8

TEMPORARY CABLE DIAGRAM LEGEND

- TEMPORARY 12" TRAFFIC SIGNAL SECTION
- TEMPORARY CONTROLLER CABINET
- TEMPORARY SERVICE INSTALLATION
- TEMPORARY SIGNAL HEAD, PEDESTRIAN
- DENOTES NUMBER OF CONDUCTORS. ALL CABLE NO. 14 EXCEPT AS INDICATED
- VIDEO COAXIAL CABLE
- TEMPORARY PEDESTRIAN PUSH-BUTTON DETECTOR
- TEMPORARY VIDEO DETECTION CAMERA
- TEMPORARY 250 WATT LUMINAIRE

LEGEND

- VEHICULAR PHASE
- RIGHT-TURN OVERLAP
- PEDESTRIAN PHASE
- NUMBER REFERS TO ASSOCIATED PHASE

LEGEND

- VEHICULAR PHASE
- RIGHT-TURN OVERLAP
- PEDESTRIAN PHASE
- NUMBER REFERS TO ASSOCIATED PHASE

PHASE DESIGNATION DIAGRAM

PHASE DESIGNATION DIAGRAM

**KNIGHT**  
Engineers & Architects

USER NAME = dsiwo  
DESIGNED - PMO  
DRAWN - PMO  
CHECKED - DMS  
PLOT SCALE = 1:40  
PLOT DATE = 8/16/2018  
REVISIED -  
REVISIED -  
REVISIED -  
DATE - 08/15/2018  
REVISIED -

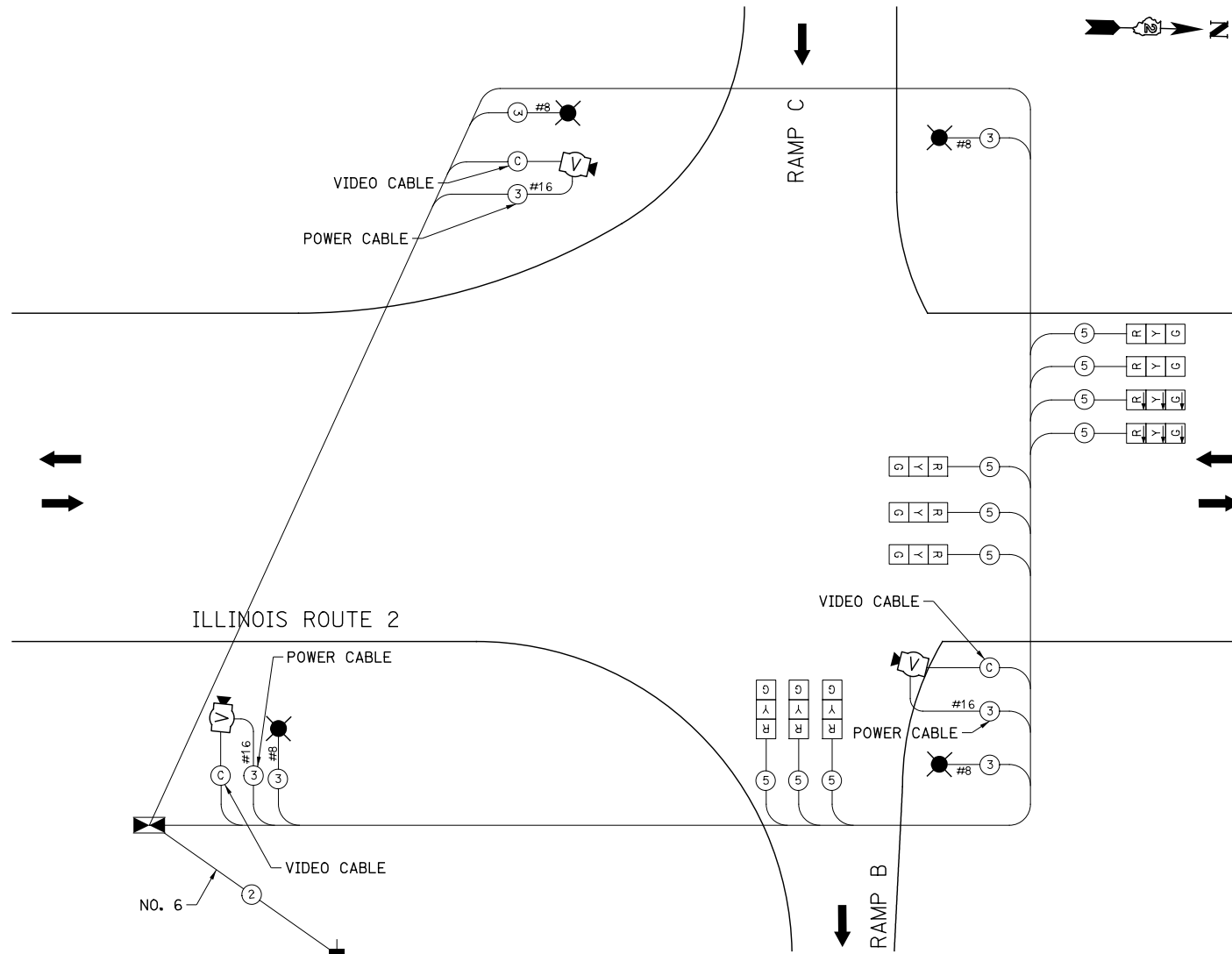
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL CABLE PLAN - RAMP B AND C

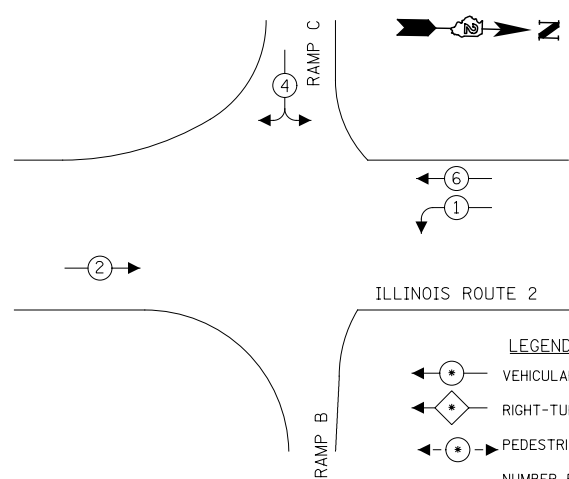
SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	3HBR	WINNEBAGO	689	458
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 64B87	

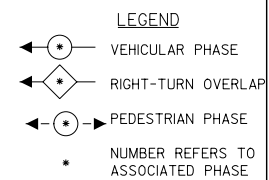
STAGE 7, 7A



CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM



TEMPORARY CABLE DIAGRAM LEGEND

- TEMPORARY 12" TRAFFIC SIGNAL SECTION
- TEMPORARY CONTROLLER CABINET
- TEMPORARY SERVICE INSTALLATION
- TEMPORARY SIGNAL HEAD, PEDESTRIAN
- DENOTES NUMBER OF CONDUCTORS. ALL CABLE NO. 14 EXCEPT AS INDICATED
- VIDEO COAXIAL CABLE
- TEMPORARY PEDESTRIAN PUSH-BUTTON DETECTOR
- TEMPORARY VIDEO DETECTION CAMERA
- TEMPORARY 250 WATT LUMINAIRE

TYPE	NO. LAMPS	WATTAGE INCAND.	LED	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	9	135	17	0.50	76.5
(YELLOW)	9	135	25	0.25	56.3
(GREEN)	9	135	15	0.25	33.8
ARROW	4	135	12	0.10	4.8
PED. SIGNAL		90	25	1.00	
CONTROLLER	1	100		1.00	100.0
ILLUM. SIGN					
VIDEO CAMERA	3	15		1.00	45.0
LUMINAIRE	4	250		0.50	500.0
FLASHER					
ENERGY COSTS TO:				TOTAL=	816.4

ENERGY SUPPLY CONTACT:  
PHONE:  
COMPANY:

**KNIGHT**  
Engineers & Architects

USER NAME = dsiwo	DESIGNED - PMO	REVISED -
PLOT SCALE = 1:40	DRAWN - PMO	REVISED -
PLOT DATE = 8/16/2018	CHECKED - DMS	REVISED -
	DATE - 08/15/2018	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

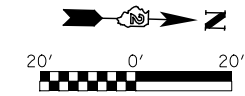
TEMPORARY TRAFFIC SIGNAL CABLE PLAN - RAMP B AND C

SHEET NO. OF SHEETS STA. TO STA.

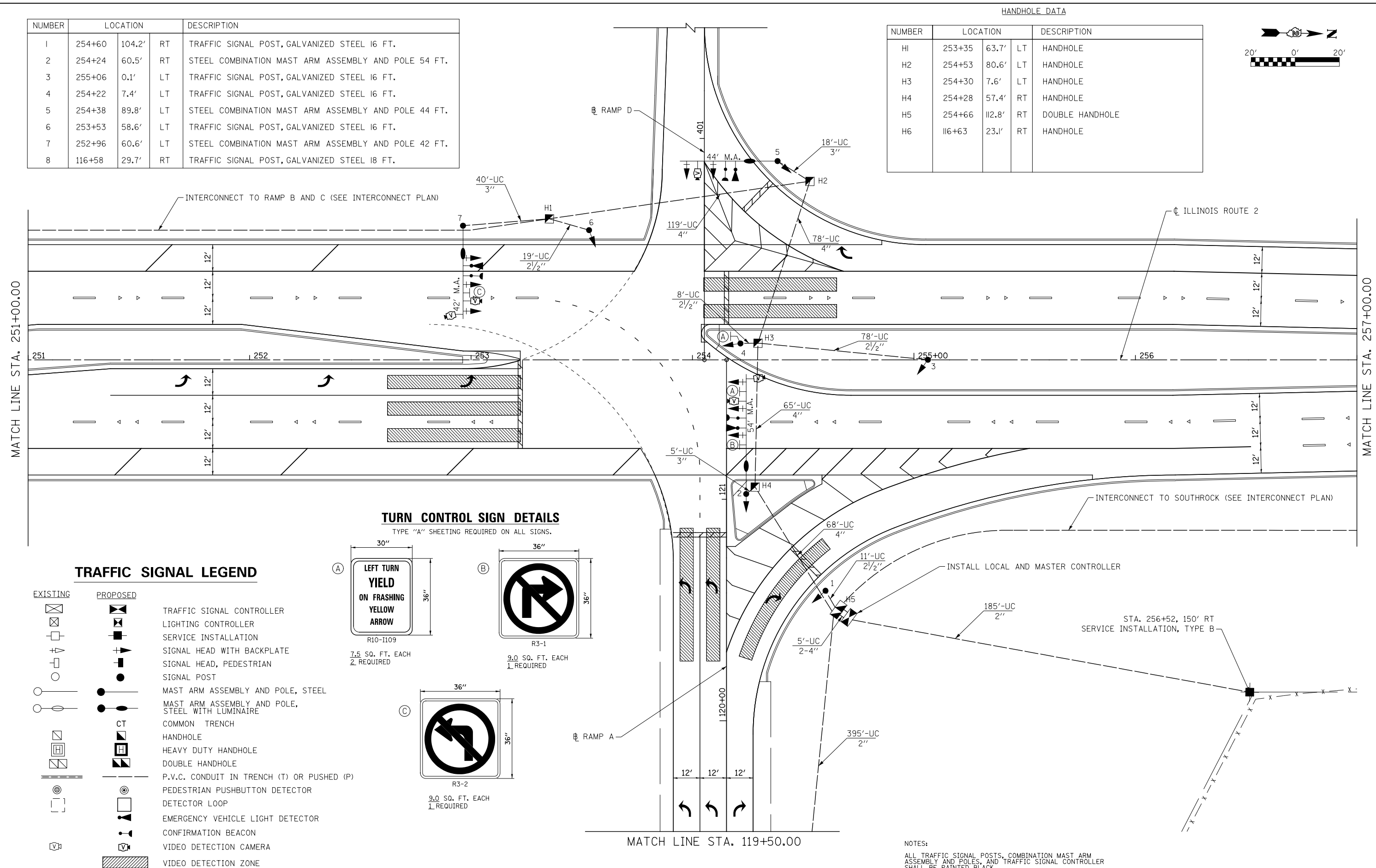
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	3HBR	WINNEBAGO	689	459
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 64B87	

HANDHOLE DATA

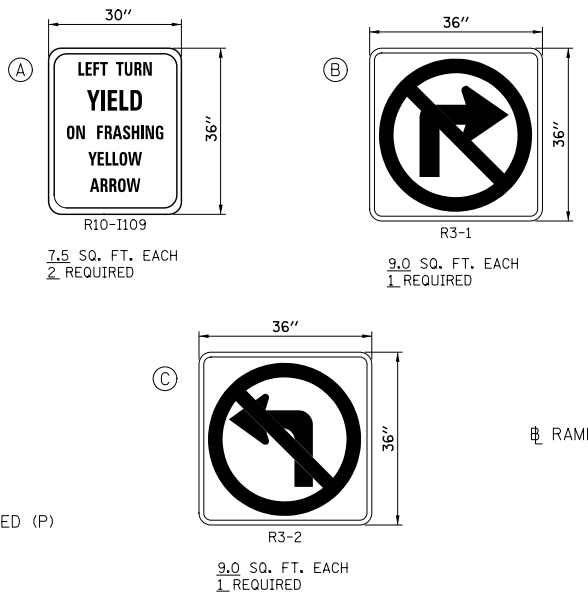
NUMBER	LOCATION	DESCRIPTION
H1	253+35 63.7'	LT HANDHOLE
H2	254+53 80.6'	LT HANDHOLE
H3	254+30 7.6'	LT HANDHOLE
H4	254+28 57.4'	RT HANDHOLE
H5	254+66 112.8'	RT DOUBLE HANDHOLE
H6	116+63 23.1'	RT HANDHOLE



NUMBER	LOCATION	DESCRIPTION
1	254+60 104.2'	RT TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
2	254+24 60.5'	RT STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 54 FT.
3	255+06 0.1'	LT TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
4	254+22 7.4'	LT TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
5	254+38 89.8'	LT STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 44 FT.
6	253+53 58.6'	LT TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
7	252+96 60.6'	LT STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 42 FT.
8	116+58 29.7'	RT TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.



**TURN CONTROL SIGN DETAILS**  
TYPE "A" SHEETING REQUIRED ON ALL SIGNS.



**TRAFFIC SIGNAL LEGEND**

EXISTING	PROPOSED	DESCRIPTION
[Symbol]	[Symbol]	TRAFFIC SIGNAL CONTROLLER
[Symbol]	[Symbol]	LIGHTING CONTROLLER
[Symbol]	[Symbol]	SERVICE INSTALLATION
[Symbol]	[Symbol]	SIGNAL HEAD WITH BACKPLATE
[Symbol]	[Symbol]	SIGNAL HEAD, PEDESTRIAN
[Symbol]	[Symbol]	SIGNAL POST
[Symbol]	[Symbol]	MAST ARM ASSEMBLY AND POLE, STEEL
[Symbol]	[Symbol]	MAST ARM ASSEMBLY AND POLE, STEEL WITH LUMINAIRE
[Symbol]	[Symbol]	COMMON TRENCH
[Symbol]	[Symbol]	HANDHOLE
[Symbol]	[Symbol]	HEAVY DUTY HANDHOLE
[Symbol]	[Symbol]	DOUBLE HANDHOLE
[Symbol]	[Symbol]	P.V.C. CONDUIT IN TRENCH (T) OR PUSHED (P)
[Symbol]	[Symbol]	PEDESTRIAN PUSHBUTTON DETECTOR
[Symbol]	[Symbol]	DETECTOR LOOP
[Symbol]	[Symbol]	EMERGENCY VEHICLE LIGHT DETECTOR
[Symbol]	[Symbol]	CONFIRMATION BEACON
[Symbol]	[Symbol]	VIDEO DETECTION CAMERA
[Symbol]	[Symbol]	VIDEO DETECTION ZONE

NOTES:  
ALL TRAFFIC SIGNAL POSTS, COMBINATION MAST ARM ASSEMBLY AND POLES, AND TRAFFIC SIGNAL CONTROLLER SHALL BE PAINTED BLACK.



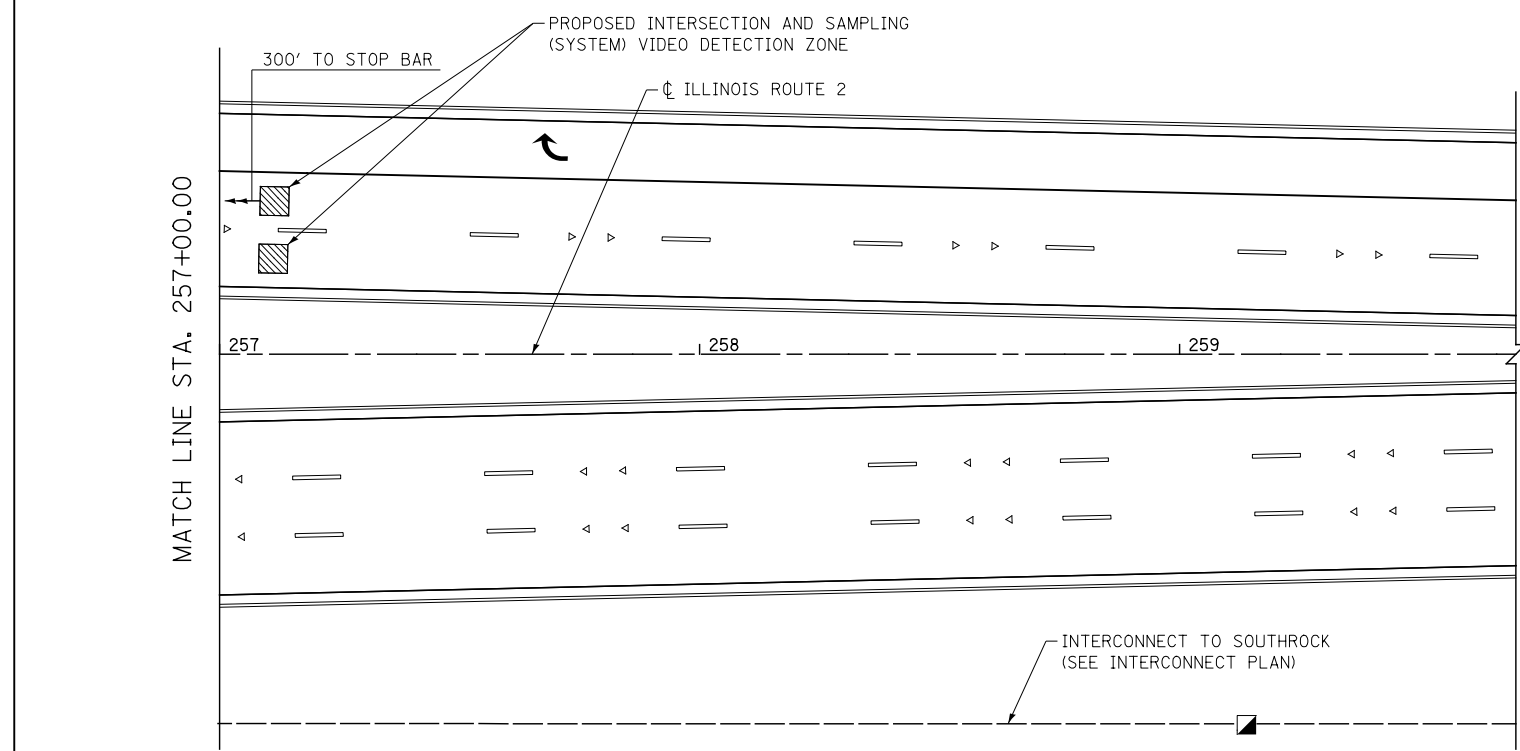
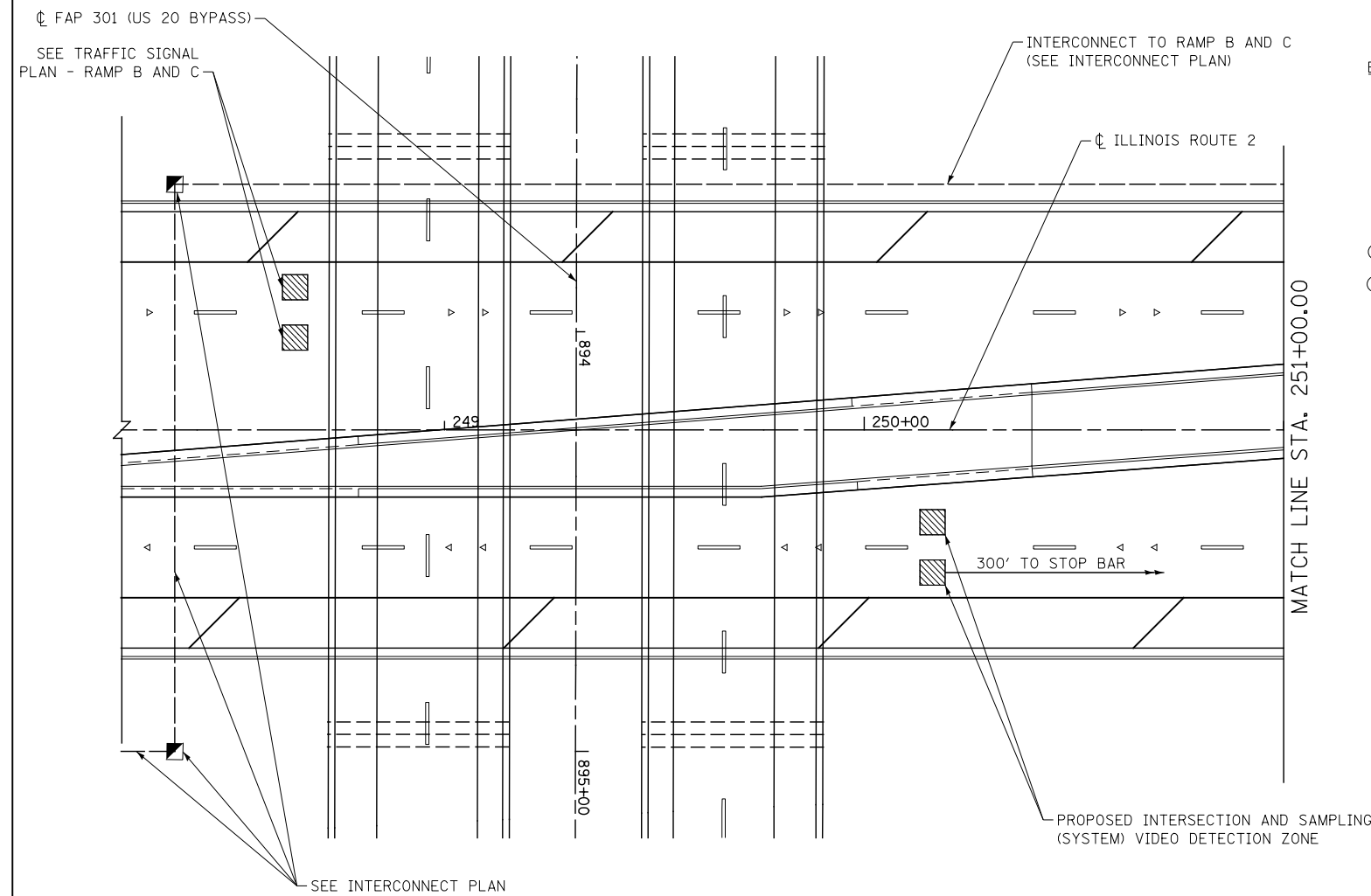
USER NAME = dsiwo	DESIGNED - PMO	REVISED -
PLOT SCALE = 1:40	DRAWN - PMO	REVISED -
PLOT DATE = 8/16/2018	CHECKED - DMS	REVISED -
	DATE - 08/15/2018	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL PLAN - RAMP A AND D  
(SHEET 1 OF 2)

SHEET NO.	OF SHEETS	STA.	TO STA.
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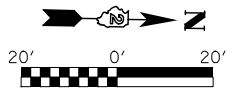
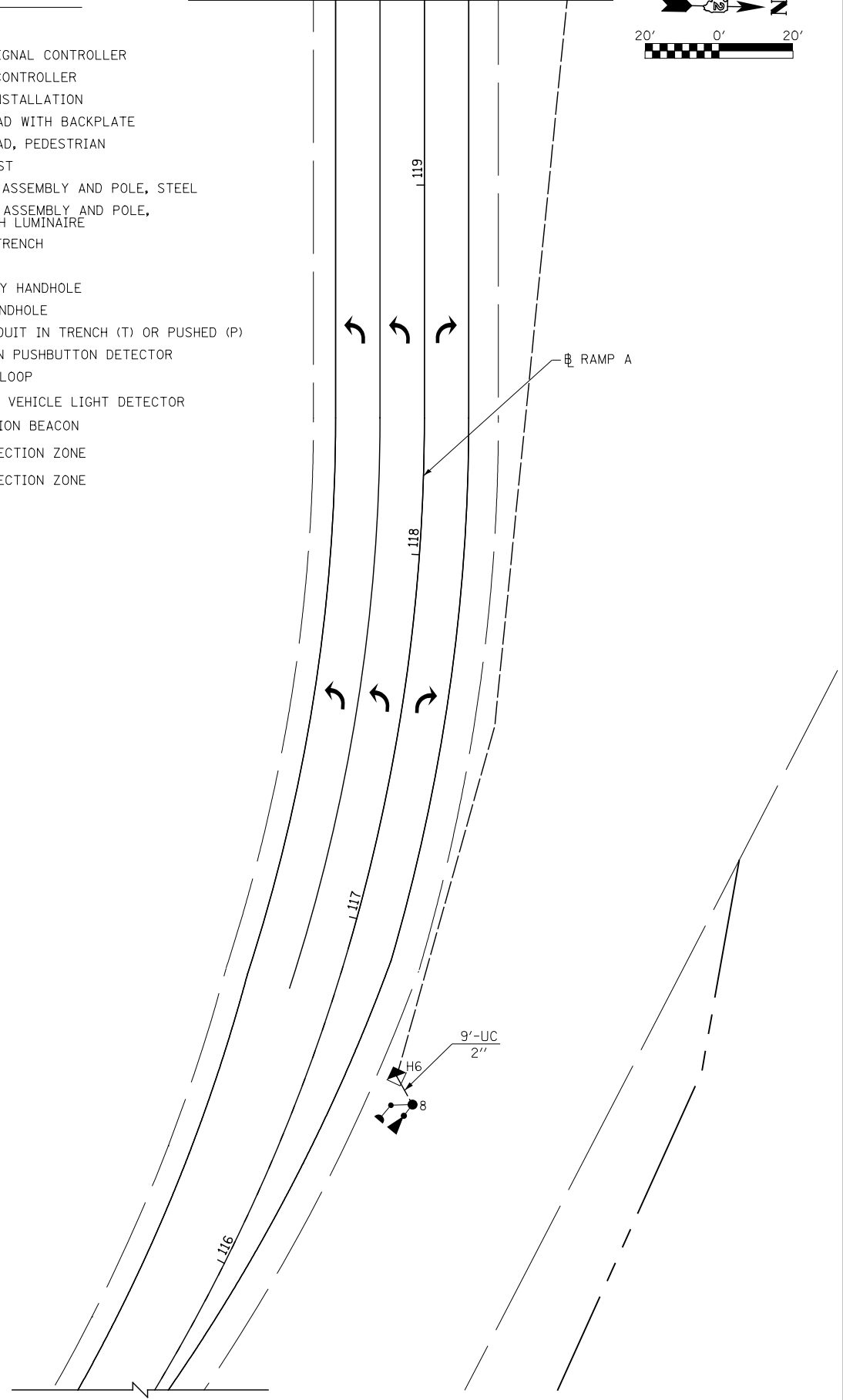
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	3HBR	WINNEBAGO	689	460
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT	CONTRACT NO. 64B87	



**TRAFFIC SIGNAL LEGEND**

EXISTING	PROPOSED	
		TRAFFIC SIGNAL CONTROLLER
		LIGHTING CONTROLLER
		SERVICE INSTALLATION
		SIGNAL HEAD WITH BACKPLATE
		SIGNAL HEAD, PEDESTRIAN
		SIGNAL POST
		MAST ARM ASSEMBLY AND POLE, STEEL
		MAST ARM ASSEMBLY AND POLE, STEEL WITH LUMINAIRE
		COMMON TRENCH
		HANDHOLE
		HEAVY DUTY HANDHOLE
		DOUBLE HANDHOLE
		P.V.C. CONDUIT IN TRENCH (T) OR PUSHED (P)
		PEDESTRIAN PUSHBUTTON DETECTOR
		DETECTOR LOOP
		EMERGENCY VEHICLE LIGHT DETECTOR
		CONFIRMATION BEACON
		VIDEO DETECTION ZONE
		VIDEO DETECTION ZONE

MATCH LINE STA. 119+50.00



**KNIGHT**  
Engineers & Architects

USER NAME = dsiwo	DESIGNED - PMO	REVISED -
PLOT SCALE = 1:40	DRAWN - PMO	REVISED -
PLOT DATE = 8/16/2018	CHECKED - DMS	REVISED -
	DATE - 08/15/2018	REVISED -

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

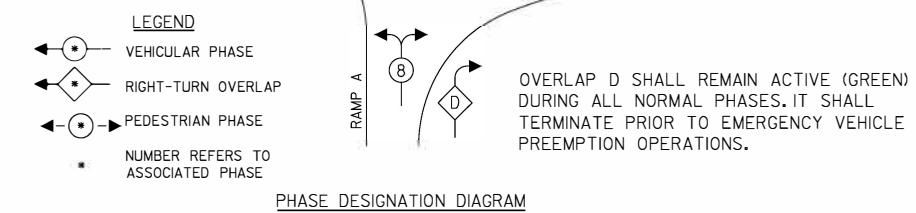
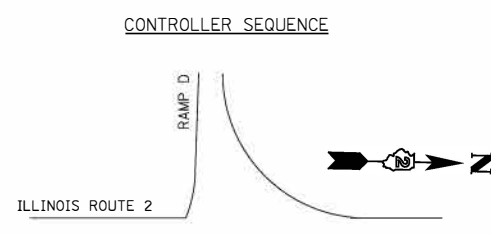
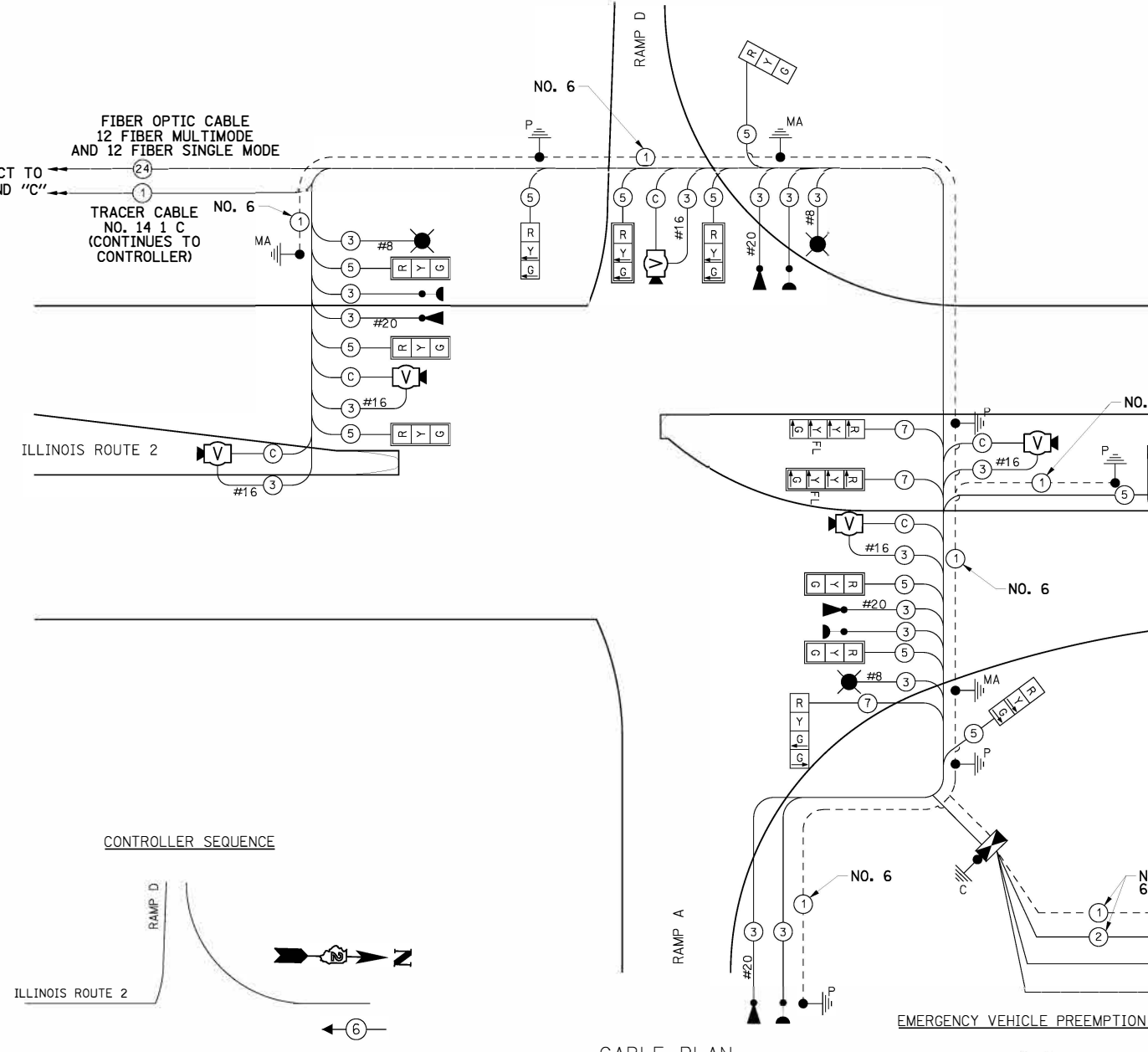
**TRAFFIC SIGNAL PLAN - RAMP A AND D**  
**(SHEET 2 OF 2)**

SHEET NO.	OF SHEETS	STA.	TO STA.
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F.A.P. RTE. 301	SECTION 3HBR	COUNTY WINNEBAGO	TOTAL SHEETS 689	SHEET NO. 461
CONTRACT NO. 64B87				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

**CABLE PLAN LEGEND**

EXISTING	PROPOSED	DESCRIPTION
[R]	[R]	12" TRAFFIC SIGNAL SECTION
[W]	[W]	12" PEDESTRIAN SIGNAL SECTION
[W]	[W]	12" PEDESTRIAN SIGNAL SECTION
[Box]	[Box]	CONTROLLER CABINET, AND UPS
[S]	[S]	SERVICE INSTALLATION
[T]	[T]	TELEPHONE INSTALLATION
[V]	[V]	VEHICLE DETECTOR, INDUCTION LOOP
[V]	[V]	VIDEO DETECTION
[V]	[V]	EMERGENCY VEHICLE LIGHT DETECTOR
[V]	[V]	CONFIRMATION BEACON
[V]	[V]	PUSHBUTTON DETECTOR
[V]	[V]	LIGHTING UNIT
(2)	(2)	DENOTES NUMBER OF CONDUCTORS. ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED
(1)	(1)	GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)
(C)	(C)	VIDEO COAXIAL CABLE
(24)	(24)	FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 2-MMI2F SMI2F
[R, Y, G, W, B, C]	[R, Y, G, W, B, C]	SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD
[V]	[V]	VIDEO DETECTION CAMERA
[H]	[H]	GROUND ROD AT HANDHOLE (H) DOUBLE HANDHOLE (H), OR CONTROLLER (C)
[P]	[P]	GROUND ROD AT POST (P) OR MAST ARM POLE (MA)
[S]	[S]	GROUND ROD AT ELECTRIC SERVICE INSTALLATION



**CABLE PLAN**

TYPE	NO. LAMPS	WATTAGE INCAND.	LED	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	14	135	17	0.50	119.0
(YELLOW)	9	135	25	0.25	56.25
(GREEN)	8	135	15	0.25	30.0
ARROW	16	135	12	0.10	19.20
PED. SIGNAL		90	25	1.00	
CONTROLLER	1	100		1.00	100.0
ILLUM. SIGN					
VIDEO CAMERA	5	25		1.00	125.0
LUMINAIRE	3			0.50	375.0
FLASHER					
TOTAL=					824.45

FOUNDATION (DEPTH)	FT. (m)	CABLE SLACK	FT. (m)	VERTICAL	FT. (m)
TYPE A - POST	4 (1.2)	HANDHOLE	6.5 (2.0)	ALL FOUNDATIONS	3.5 (1.0)
A - SERVICE PED.	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)	MAST ARM (L) POLE	20'+L-2 (6m+L-0.6m)
C - CONTROLLER	4 (1.2)	SIGNAL POST	2 (1.0)	BRACKET MOUNTED	13 (4.0)
E - M. ARM POLE		CONTROLLER CAB.	1 (0.5)	PED. BUTTON	4 (1.2)
		FIBER OPTIC	13 (4.0)	ELECTRICAL SERVICE	13.5 (4.1)
		ELECTRIC SERVICE	1 (0.5)	SERVICE TO GROUND	13.5 (4.1)
		GROUND CABLE	1 (0.5)	POST MOUNTED	6 (1.8)

ENERGY COSTS TO:

ENERGY SUPPLY CONTACT:

PHONE:

COMPANY:



USER NAME = ds1wo

DESIGNED = PMO

DRAWN = PMO

CHECKED = DMS

DATE = 08/15/2018

REVISID =

REVISID =

REVISID =

REVISID =

**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL CABLE PLAN - RAMP A AND D**

SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	3HBR	WINNEBAGO	689	462

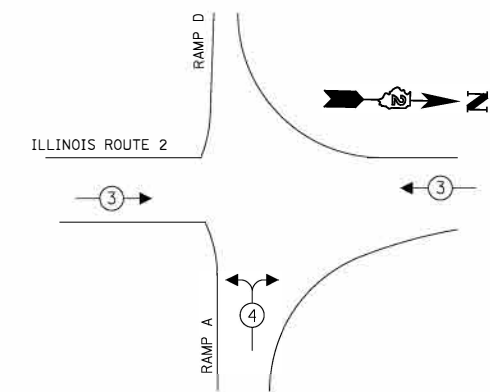
CONTRACT NO. 64B87

FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

**SCHEDULE OF QUANTITIES**

PAY ITEM NAME	UNIT	QUANTITY TOTAL	QUANTITY
SIGN PANEL - TYPE 1	SQ.FT	66	33
SERVICE INSTALLATION, TYPE B	EACH	2	1
UNDERGROUND CONDUIT, COILABLE NONMETALLIC, 2" DIA.	FOOT	3,524	589
UNDERGROUND CONDUIT, COILABLE NONMETALLIC, 2 1/2" DIA.	FOOT	195	116
UNDERGROUND CONDUIT, COILABLE NONMETALLIC, 3" DIA.	FOOT	154	63
UNDERGROUND CONDUIT, COILABLE NONMETALLIC, 4" DIA.	FOOT	661	340
HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	14	5
DOUBLE HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	2	1
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 8	FOOT	1,386	822
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1	
FULL-ACTUATED CONTROLLER AND TYPE V CABINET	EACH	2	1
MASTER CONTROLLER	EACH	1	1
TRANSCEIVER - FIBER OPTIC	EACH	3	1
FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F	FOOT	3,230	
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	3,230	
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	2,798	1,434
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	6,557	3,421
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	732	494
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	461	205
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	2,415	1,225
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	7	4
TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.	EACH	2	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 38 FT.	EACH	1	
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 42 FT.	EACH	2	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 44 FT.	EACH	1	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 54 FT.	EACH	1	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 65 FT.	EACH	1	
CONCRETE FOUNDATION, TYPE A	FOOT	36	20
CONCRETE FOUNDATION, TYPE C	FOOT	8	4
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	67	41
CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	25	
DRILL EXISTING HANDHOLE	EACH	1	
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	6	4
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	16	7
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	3	2
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	1	1
SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2	
TRAFFIC SIGNAL BACKPLATE	EACH	17	8
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	2	1
VIDEO DETECTION SYSTEM	EACH	2	1
LUMINAIRE, LED, HORIZONTAL MOUNT, MEDIUM WATTAGE	EACH	6	3
PAINT TRAFFIC SIGNAL EQUIPMENT	L.SUM	1	
EMERGENCY VEHICLE PRIORITY SYSTEM	EACH	2	1

**EMERGENCY VEHICLE PREEMPTION SEQUENCE**



EMERGENCY VEHICLE PREEMPTOR	MOVEMENT
3	4
←	←
→	→

THE TRAFFIC SIGNAL CONTROLLER SHALL MATCH THE EXISTING CONTROLLER BRAND AT SOUTHROCK DR FOR INTERCONNECT.

ALL OVERLAPS SHALL TERMINATE WHEN AN EMERGENCY VEHICLE PREEMPTION CALL IS RECEIVED.

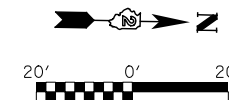
# TRAFFIC SIGNAL LEGEND

EXISTING	PROPOSED	
		TRAFFIC SIGNAL CONTROLLER
		LIGHTING CONTROLLER
		SERVICE INSTALLATION
		SIGNAL HEAD WITH BACKPLATE
		SIGNAL HEAD, PEDESTRIAN
		SIGNAL POST
		MAST ARM ASSEMBLY AND POLE, STEEL
		MAST ARM ASSEMBLY AND POLE, STEEL WITH LUMINAIRE
		COMMON TRENCH
		HANDHOLE
		HEAVY DUTY HANDHOLE
		DOUBLE HANDHOLE
		P.V.C. CONDUIT IN TRENCH (T) OR PUSHED (P)
		PEDESTRIAN PUSHBUTTON DETECTOR
		DETECTOR LOOP
		EMERGENCY VEHICLE LIGHT DETECTOR
		CONFIRMATION BEACON
		VIDEO DETECTION CAMERA
		VIDEO DETECTION ZONE

MATCH LINE STA. 318+50.00

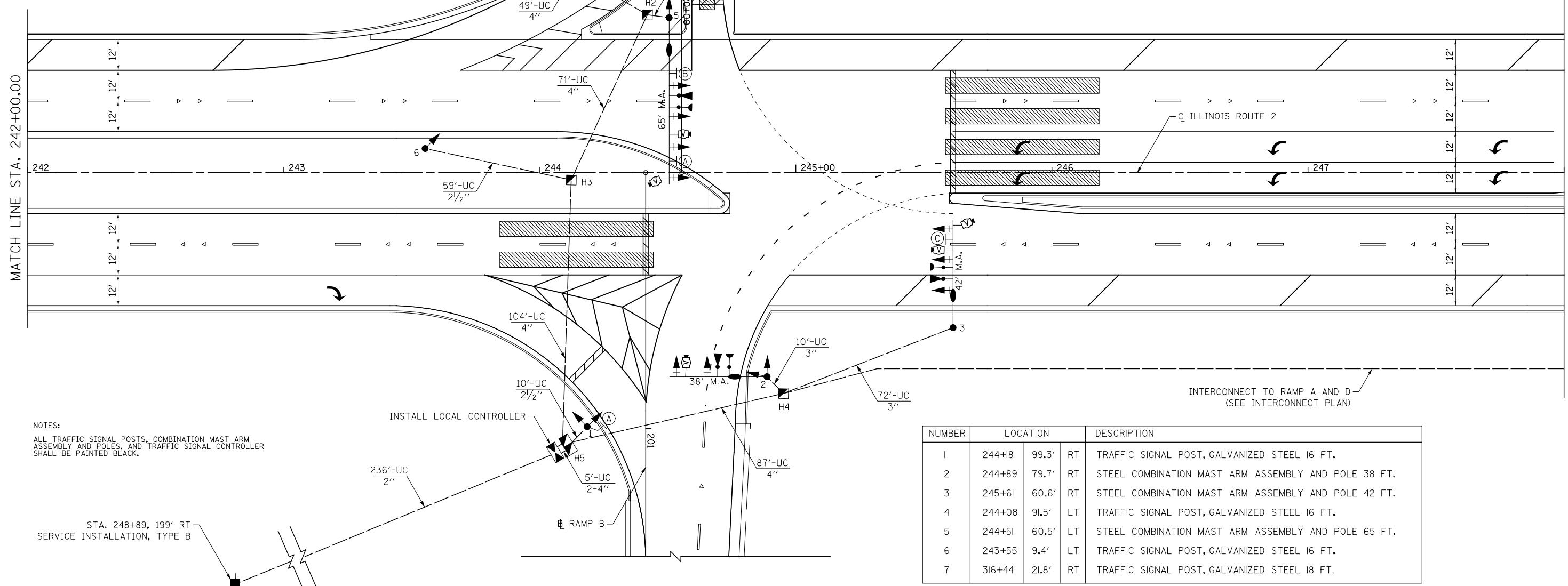
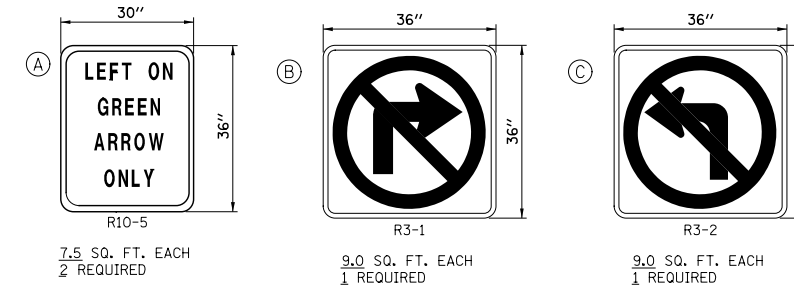
## HANDHOLE DATA

NUMBER	LOCATION	DESCRIPTION
H1	244+00 86.1' LT	HANDHOLE
H2	244+42 61.7' LT	HANDHOLE
H3	244+42 3.0' RT	HANDHOLE
H4	244+95 86.3' RT	HANDHOLE
H5	244+41 106.3' RT	DOUBLE HANDHOLE
H6	316+51 15.1' RT	HANDHOLE



## TURN CONTROL SIGN DETAILS

TYPE "A" SHEETING REQUIRED ON ALL SIGNS.



NOTES:  
ALL TRAFFIC SIGNAL POSTS, COMBINATION MAST ARM ASSEMBLY AND POLES, AND TRAFFIC SIGNAL CONTROLLER SHALL BE PAINTED BLACK.

STA. 248+89, 199' RT SERVICE INSTALLATION, TYPE B

NUMBER	LOCATION	DESCRIPTION
1	244+48 99.3' RT	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
2	244+89 79.7' RT	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 38 FT.
3	245+61 60.6' RT	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 42 FT.
4	244+08 91.5' LT	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
5	244+51 60.5' LT	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 65 FT.
6	243+55 9.4' LT	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
7	316+44 21.8' RT	TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.

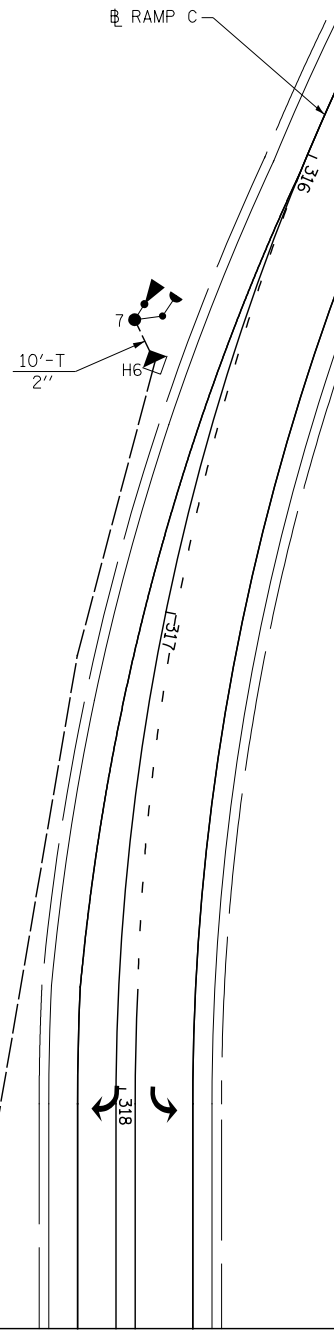
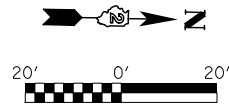


USER NAME = dsiwo	DESIGNED - PMO	REVISED -
PLOT SCALE = 1:40	DRAWN - PMO	REVISED -
PLOT DATE = 8/16/2018	CHECKED - DMS	REVISED -
	DATE - 08/15/2018	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

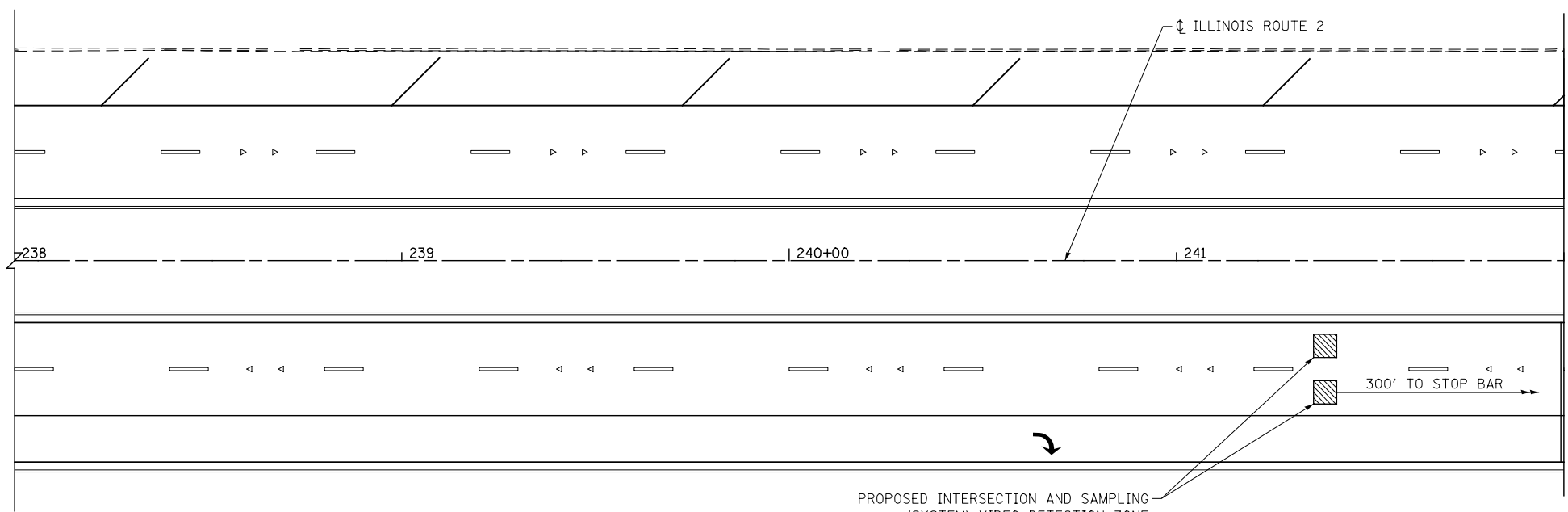
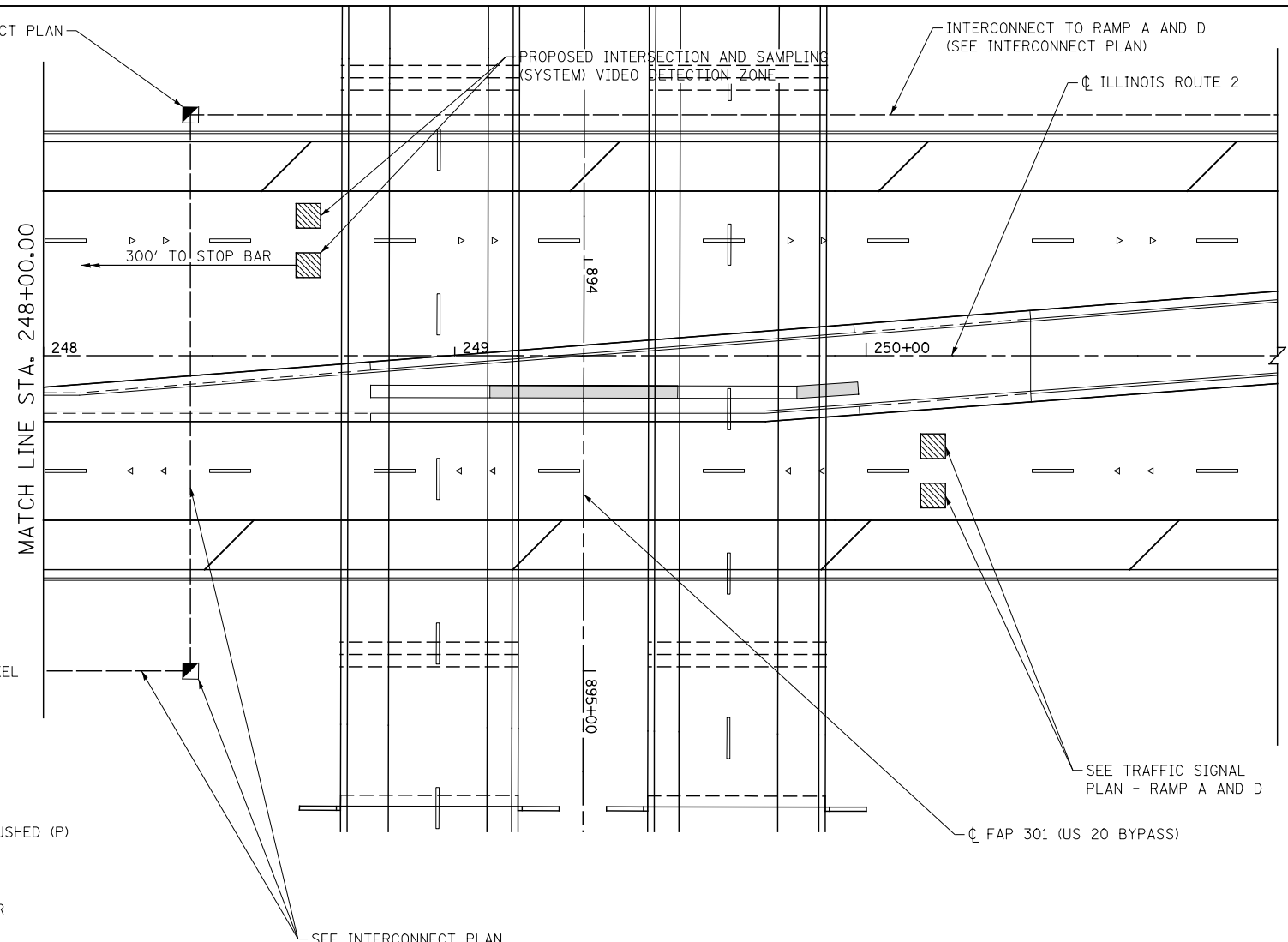
TRAFFIC SIGNAL PLAN - RAMP B AND C  
(SHEET 1 OF 2)

F.A.P. RTE. 301	SECTION 3HBR	COUNTY WINNEBAGO	TOTAL SHEETS 689	SHEET NO. 463
SHEET NO. OF SHEETS STA. TO STA.		CONTRACT NO. 64B87		
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



**TRAFFIC SIGNAL LEGEND**

EXISTING	PROPOSED	
		TRAFFIC SIGNAL CONTROLLER
		LIGHTING CONTROLLER
		SERVICE INSTALLATION
		SIGNAL HEAD WITH BACKPLATE
		SIGNAL HEAD, PEDESTRIAN
		SIGNAL POST
		MAST ARM ASSEMBLY AND POLE, STEEL
		MAST ARM ASSEMBLY AND POLE, STEEL WITH LUMINAIRE
		COMMON TRENCH
		HANDHOLE
		HEAVY DUTY HANDHOLE
		DOUBLE HANDHOLE
		P.V.C. CONDUIT IN TRENCH (T) OR PUSHED (P)
		PEDESTRIAN PUSHBUTTON DETECTOR
		DETECTOR LOOP
		EMERGENCY VEHICLE LIGHT DETECTOR
		CONFIRMATION BEACON
		VIDEO DETECTION ZONE
		VIDEO DETECTION ZONE

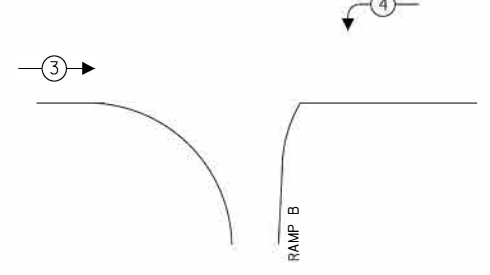
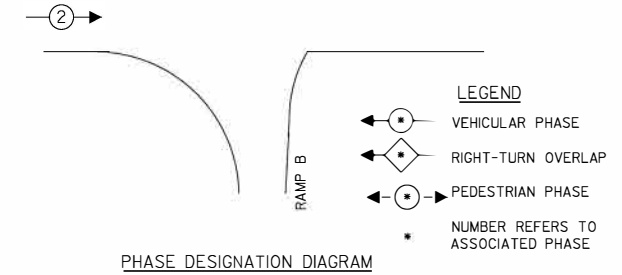
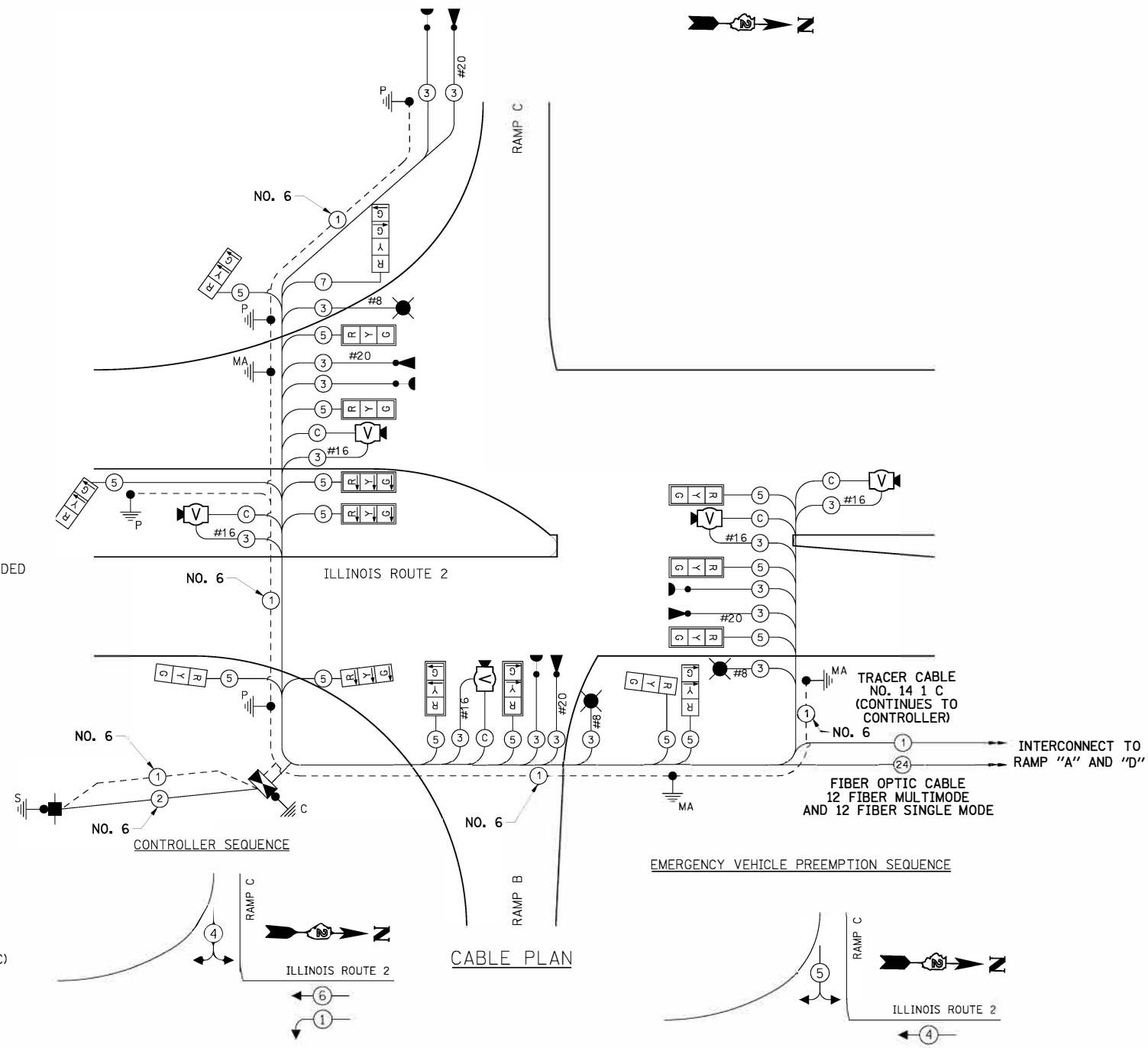


MATCH LINE STA. 242+00.00



CABLE PLAN LEGEND

EXISTING	PROPOSED	DESCRIPTION
[R]	[R]	12" TRAFFIC SIGNAL SECTION
[W]	[W]	12" PEDESTRIAN SIGNAL SECTION
[H]	[H]	12" PEDESTRIAN SIGNAL SECTION
[CAB]	[CAB]	CONTROLLER CABINET, AND UPS
[S]	[S]	SERVICE INSTALLATION
[T]	[T]	TELEPHONE INSTALLATION
[VD]	[VD]	VEHICLE DETECTOR, INDUCTION LOOP
[V]	[V]	VIDEO DETECTION
[EVD]	[EVD]	EMERGENCY VEHICLE LIGHT DETECTOR
[CB]	[CB]	CONFIRMATION BEACON
[PB]	[PB]	PUSHBUTTON DETECTOR
[LU]	[LU]	LIGHTING UNIT
(2)	(2)	DENOTES NUMBER OF CONDUCTORS. ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED
(1)	(1)	GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)
(C)	(C)	VIDEO COAXIAL CABLE
(24)	(24)	FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 2-MMI2F SM12F
[R]	[R]	SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD
[V]	[V]	VIDEO DETECTION CAMERA
[G]	[G]	GROUND ROD AT HANDHOLE (H) DOUBLE HANDHOLE (H), OR CONTROLLER (C)
[P]	[P]	GROUND ROD AT POST (P) OR MAST ARM POLE (MA)
[S]	[S]	GROUND ROD AT ELECTRIC SERVICE INSTALLATION



SCHEDULE OF QUANTITIES

PAY ITEM NAME	UNIT	QUANTITY
SIGN PANEL - TYPE 1	SQ FT	33
SERVICE INSTALLATION, TYPE B	EACH	1
UNDERGROUND CONDUIT, COILABLE NONMETALLIC, 2" DIA.	FOOT	592
UNDERGROUND CONDUIT, COILABLE NONMETALLIC, 2 1/2" DIA.	FOOT	79
UNDERGROUND CONDUIT, COILABLE NONMETALLIC, 3" DIA.	FOOT	91
UNDERGROUND CONDUIT, COILABLE NONMETALLIC, 4" DIA.	FOOT	321
HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	5
DOUBLE HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	1
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 8	FOOT	564
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE V CABINET	EACH	1
MASTER CONTROLLER	EACH	1
TRANSCIVER - FIBER OPTIC	EACH	1
FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F	FOOT	1
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1,364
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	3,136
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	238
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	256
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1,190
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	3
TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 38 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 42 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 44 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 54 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 65 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	16
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	26
CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	25
DRILL EXISTING HANDHOLE	EACH	1
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	9
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	1
SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
TRAFFIC SIGNAL BACKPLATE	EACH	9
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
VIDEO DETECTION SYSTEM	EACH	1
LUMINAIRE, LED, HORIZONTAL MOUNT, MEDIUM WATTAGE	EACH	3
PAINT TRAFFIC SIGNAL EQUIPMENT	LSUM	1
EMERGENCY VEHICLE PRIORITY SYSTEM	EACH	1

TYPE	NO. LAMPS	WATTAGE INCAND.	LED	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	13	135	17	0.50	110.50
(YELLOW)	8	135	25	0.25	50.0
(GREEN)	7	135	15	0.25	26.25
ARROW	21	135	12	0.10	25.20
PED. SIGNAL		90	25	1.00	
CONTROLLER	1	100		1.00	100.0
ILLUM. SIGN					
VIDEO CAMERA	5	25		1.00	125.0
LUMINAIRE	3			0.50	375.0
FLASHER					
TOTAL=					811.95

FOUNDATION (DEPTH)	FT. (m)	CABLE SLACK	FT. (m)	VERTICAL	FT. (m)
TYPE A - POST	4 (1.2)	HANDHOLE	6.5 (2.0)	ALL FOUNDATIONS	3.5 (1.0)
A - SERVICE PED.	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)	MAST ARM (L) POLE	20'+L-2 (6m+L-0.6m)
C - CONTROLLER	4 (1.2)	SIGNAL POST	2 (0.0)	BRACKET MOUNTED	13 (4.0)
E - M. ARM POLE		CONTROLLER CAB.	1 (0.5)	PED. BUTTON	4 (1.2)
		FIBER OPTIC	13 (4.0)	ELECTRICAL SERVICE	13.5 (4.1)
		ELECTRIC SERVICE	1 (0.5)	SERVICE TO GROUND	13.5 (4.1)
		GROUND CABLE	1 (0.5)	POST MOUNTED	6 (1.8)

PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	→	↶ ↷

THE TRAFFIC SIGNAL CONTROLLER SHALL MATCH THE EXISTING CONTROLLER BRAND AT SOUTHROCK DR FOR INTERCONNECT.



DESIGNED = PMO	REVISED =
DRAWN = PMO	REVISED =
CHECKED = DMS	REVISED =
DATE = 08/15/2018	REVISED =

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL CABLE PLAN - RAMP B AND C

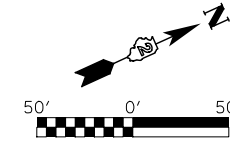
SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	3HBR	WINNEBAGO	689	465

CONTRACT NO. 64B87

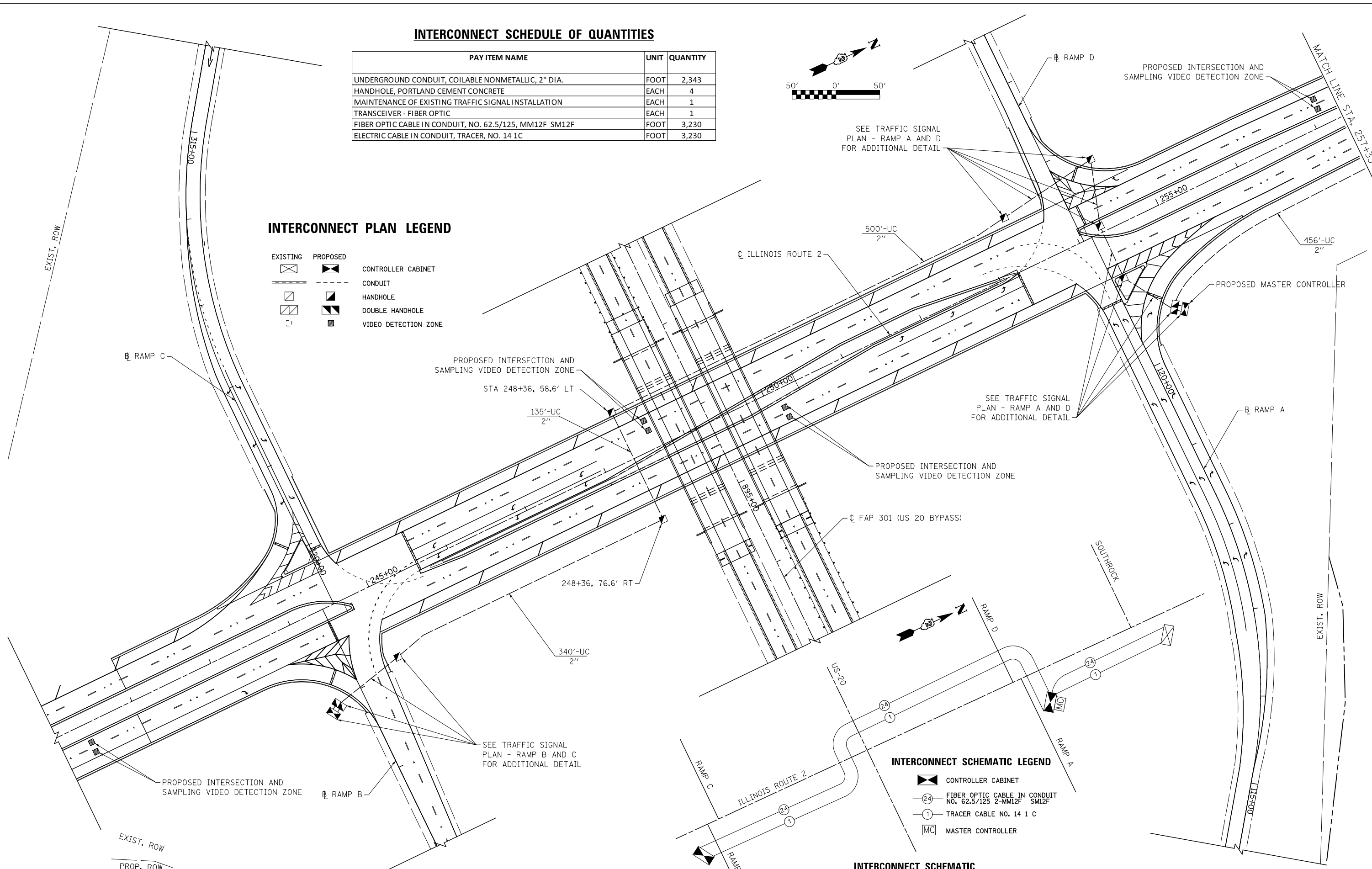
### INTERCONNECT SCHEDULE OF QUANTITIES

PAY ITEM NAME	UNIT	QUANTITY
UNDERGROUND CONDUIT, COILABLE NONMETALLIC, 2" DIA.	FOOT	2,343
HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	4
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
TRANSCEIVER - FIBER OPTIC	EACH	1
FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F	FOOT	3,230
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1 C	FOOT	3,230



### INTERCONNECT PLAN LEGEND

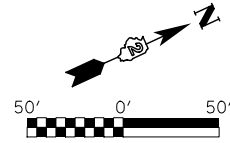
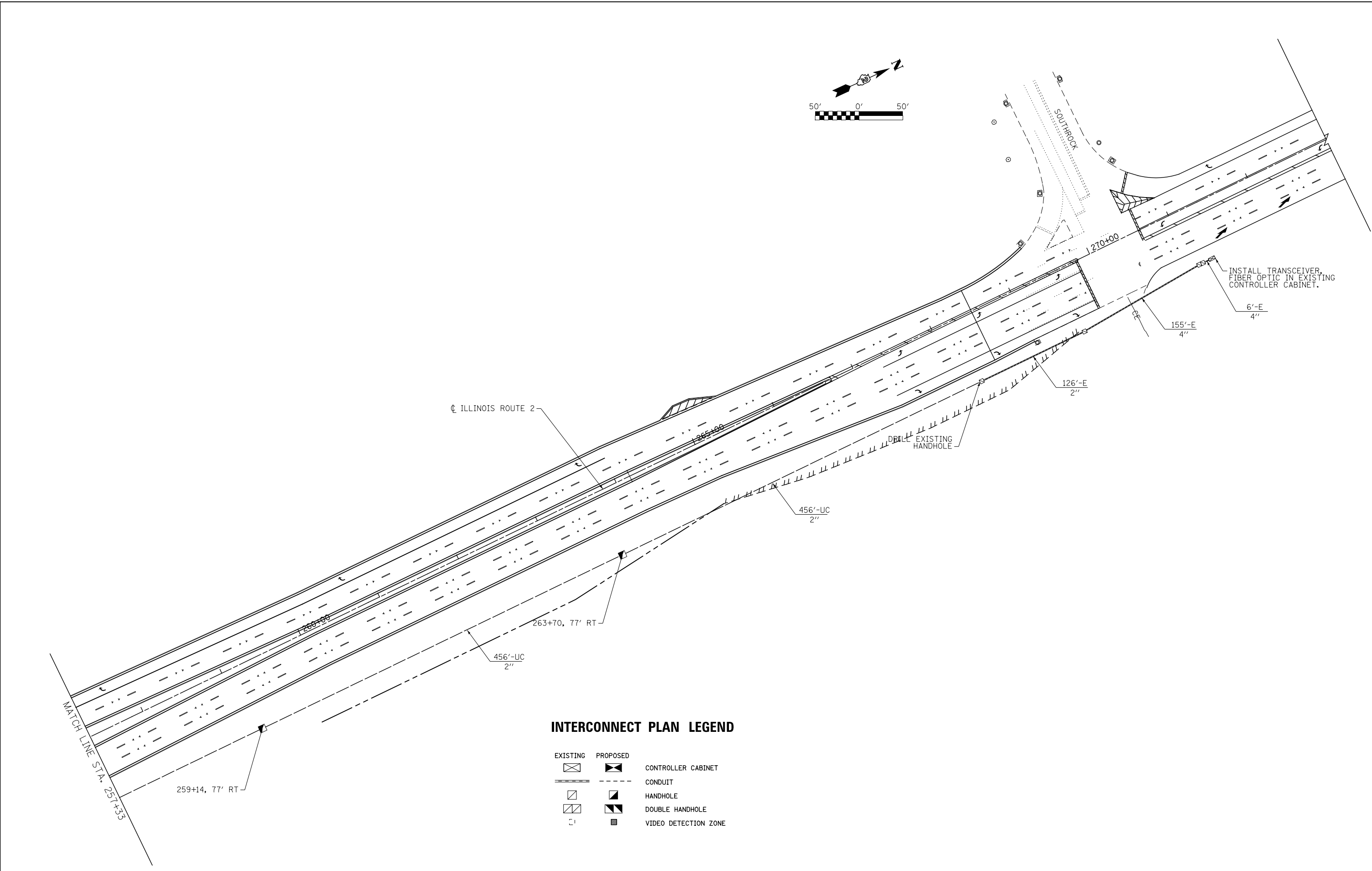
EXISTING	PROPOSED	
		CONTROLLER CABINET
		CONDUIT
		HANDHOLE
		DOUBLE HANDHOLE
		VIDEO DETECTION ZONE



### INTERCONNECT SCHEMATIC LEGEND

	CONTROLLER CABINET
	FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 2-MM12F SM12F
	TRACER CABLE NO. 14 1 C
	MASTER CONTROLLER

INTERCONNECT SCHEMATIC



**INTERCONNECT PLAN LEGEND**

EXISTING	PROPOSED	
		CONTROLLER CABINET
		CONDUIT
		HANDHOLE
		DOUBLE HANDHOLE
		VIDEO DETECTION ZONE

**KNIGHT**  
Engineers & Architects

USER NAME = dsiwo	DESIGNED - PMO	REVISED -
PLOT SCALE = 1:100	DRAWN - PMO	REVISED -
PLOT DATE = 8/16/2018	CHECKED - DMS	REVISED -
	DATE - 08/15/2018	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**INTERCONNECT PLAN**

SHEET NO.	OF SHEETS	STA.	TO STA.
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	3HBR	WINNEBAGO	689	467
CONTRACT NO. 64B87				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				






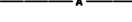
## GENERAL NOTES

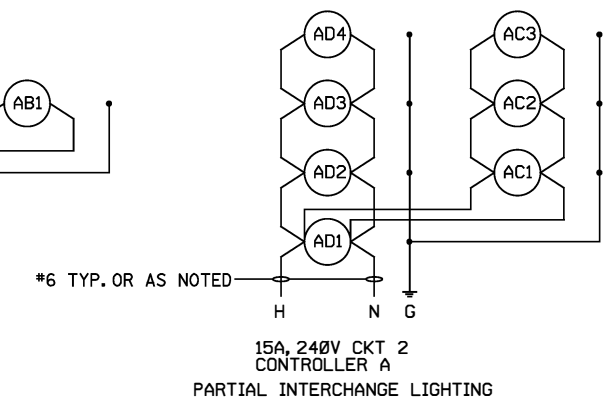
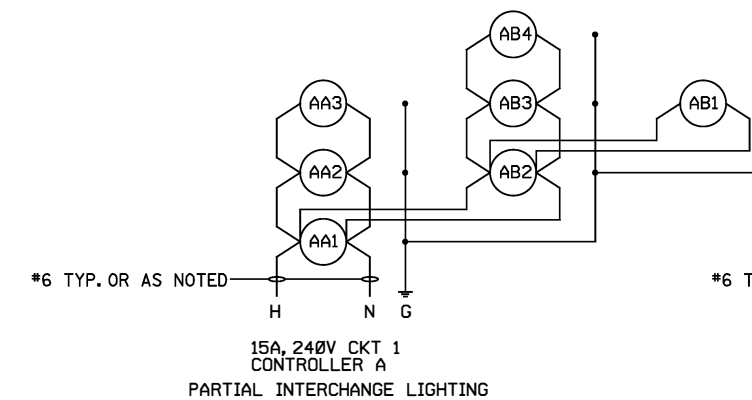
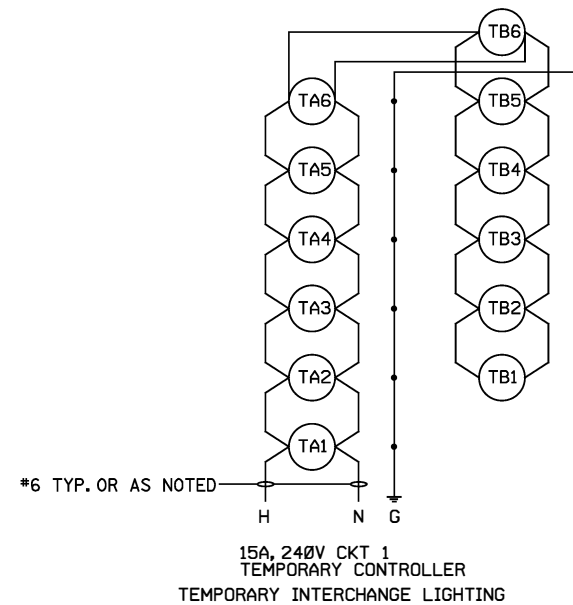
1. SPLICING OF CONDUCTORS SHALL BE IN POLE BASES OR WEATHER TIGHT JUNCTION BOXES ONLY. SPLICES BELOW GRADE WILL NOT BE PERMITTED.
2. LIGHTING CIRCUITS SHALL BE WIRED IN ACCORDANCE WITH THE PLANS. DEVIATIONS WILL NOT BE PERMITTED WITHOUT PRIOR APPROVAL OF THE ENGINEER.
3. THE CONTRACTOR SHALL REQUEST A FORMAL MAINTENANCE TRANSFER BEFORE ANY WORK BEGINS. THE CONTRACTOR SHALL CONTACT KRISTIE NYDEREK, ILLINOIS DEPARTMENT OF TRANSPORTATION AT (815) 284-5469.
4. THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO RESTORE ANY SPECIALIZED LANDSCAPING (DECORATIVE ROCKS, PLANTS, ETC.) EXISTING TO REMAIN OR NEW AT NO ADDITIONAL COST TO THE CLIENT.
5. ALL WORK SHALL CONFORM TO THE LATEST IDOT STANDARDS, SPECIAL PROVISIONS, SUPPLEMENTAL SPECIFICATIONS, THE NATIONAL ELECTRICAL CODE, AND THE NATIONAL ELECTRICAL SAFETY CODE.
6. ALL ELECTRICAL EQUIPMENT SHALL BE UL LISTED AND LABELED.
7. ALL CONDUITS SHALL BE SEALED.
8. ALL CIRCUIT WIRES SHALL BE LABELED WITH CIRCUIT IDENTIFICATION.
9. ALL LAMPS SHALL BE FURNISHED AS PART OF THE CONTRACT.
10. CIRCUITS SHALL BE TESTED PER SPECIFICATIONS.
11. THE LOCATIONS OF ALL PROPOSED EQUIPMENT ARE ILLUSTRATED DIAGRAMMATICALLY. THE ACTUAL LOCATION IN THE FIELD SHALL MEET THE APPROVAL OF THE ENGINEER.
12. THE CONTRACTOR MUST MAINTAIN SAFE EQUIPMENT AND WORKING CLEARANCES FROM THE EXISTING OVERHEAD ELECTRIC LINES. THE CONTRACTOR SHALL PLAN HIS WORK CONSIDERING ELECTRIC LINES TO BE IN SERVICE AND ENERGIZED THROUGHOUT THE CONSTRUCTION PERIOD.
13. GROUNDING CONDUCTORS SHALL BE CONTINUOUS.
14. ALL NEW UNIT DUCTS AND CONDUITS SHALL BE PLACED A MINIMUM OF 30" BENEATH THE FINISHED GRADE.
15. REMOVAL OF AN EXISTING LIGHTING UNIT SHALL ALWAYS BE FOLLOWED BY THE REMOVAL OF POLE FOUNDATION.

## SCHEDULE OF LIGHTING QUANTITIES

PAY ITEM NO.	ITEM	UNIT	TOTALS
80400100	ELECTRIC SERVICE INSTALLATION	EACH	1
81028750	UNDERGROUND CONDUIT, COILABLE NONMETALLIC, 2" DIA.	FOOT	654
81603034	UNIT DUCT, 600V, 2-1C NO.6, 1/C NO.6 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE	FOOT	2,445
81603047	UNIT DUCT, 600V, 3-1C NO.6, 1/C NO.6 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE	FOOT	3,265
81603065	UNIT DUCT, 600V, 2-1C NO.2, 1/C NO.2 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE	FOOT	200
82500340	LIGHTING CONTROLLER, PEDESTAL MOUNTED, 480VOLT, 60AMP	EACH	1
83050810	LIGHT POLE, ALUMINUM, 47.5 FT. M.H., 15 FT. MAST ARM	EACH	14
83600300	LIGHT POLE FOUNDATION, 30" DIAMETER	FOOT	98
83800205	BREAKAWAY DEVICE, TRANSFORMER BASE, 15 INCH BOLT CIRCLE	EACH	14
84100110	REMOVAL OF TEMPORARY LIGHTING UNIT	EACH	12
84200500	REMOVAL OF LIGHTING UNIT, SALVAGE	EACH	12
84200804	REMOVAL OF POLE FOUNDATION	EACH	12
84500110	REMOVAL OF LIGHTING CONTROLLER	EACH	1
X1400113	LUMINAIRE, LED, HORIZONTAL MOUNT, MEDIUM WATTAGE	EACH	20
X8410102	TEMPORARY LIGHTING SYSTEM	LSUM	1

## LIGHTING LEGEND

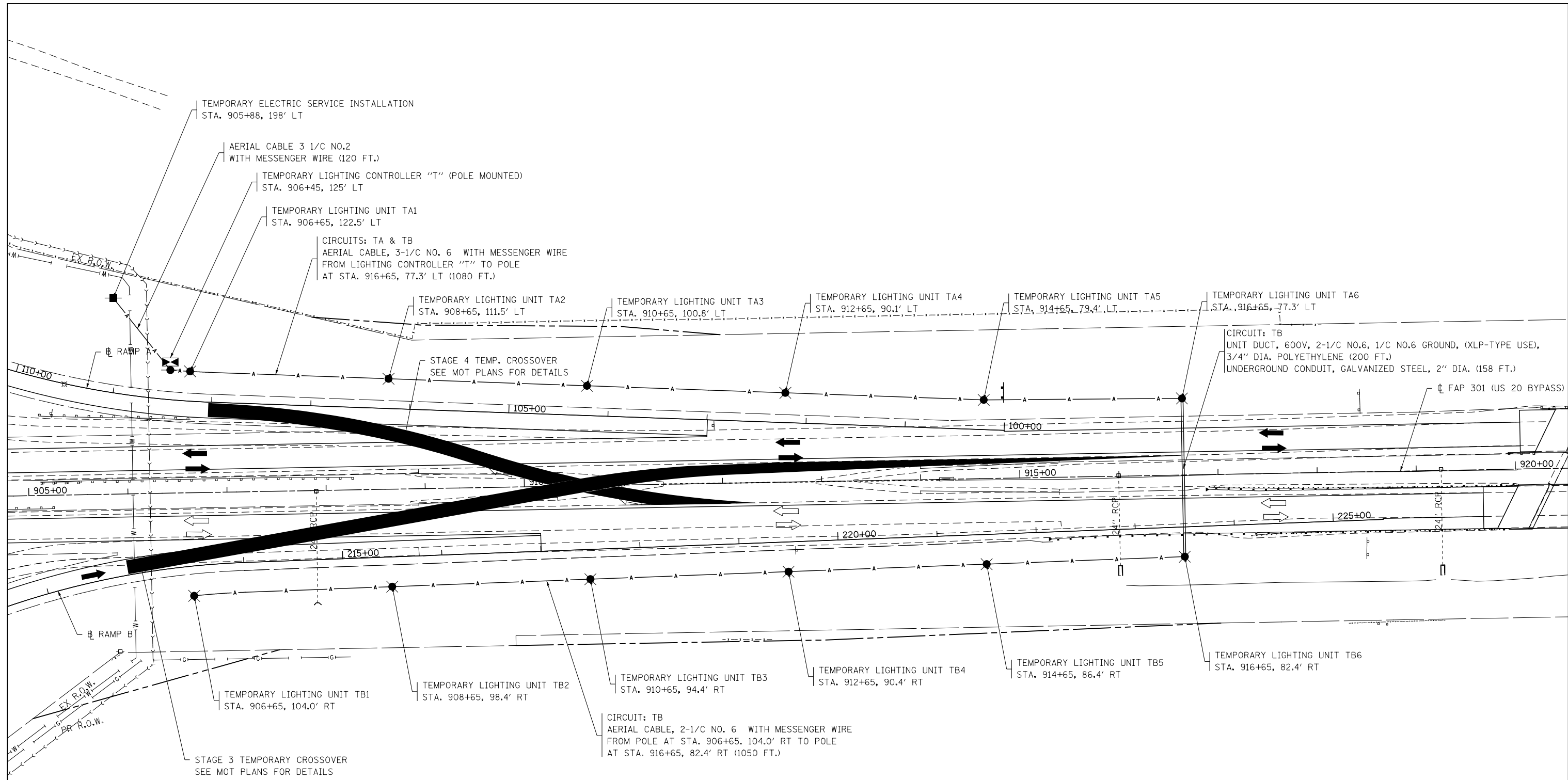
-  PROPOSED LIGHTING UNIT WITH BREAKAWAY DEVICE (TRANSFORMER BASE) 47.5' M.H., 15' M.A., LED, TYPE MC-III, 480V LUMINAIRE AND LIGHT POLE FOUNDATION, 30" DIAMETER
-  UNDERGROUND CONDUIT, NONMETALLIC SIZE AS INDICATED
-  UNIT DUCT, AS SPECIFIED ON PLANS
-  LIGHTING CONTROLLER. SEE PLANS FOR TYPE/SIZE
-  TEMPORARY LIGHTING UNIT, AS SPECIFIED ON PLANS
-  AERIAL CABLE WITH MESSENGER WIRE, AS SPECIFIED ON PLANS



## CIRCUIT SCHEMATICS

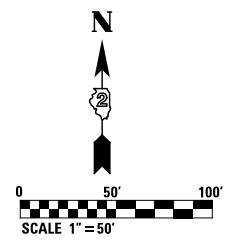
### NOTE:

SEE STD 825016-03 FOR CONTROLLER DETAILS

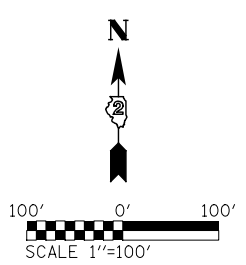
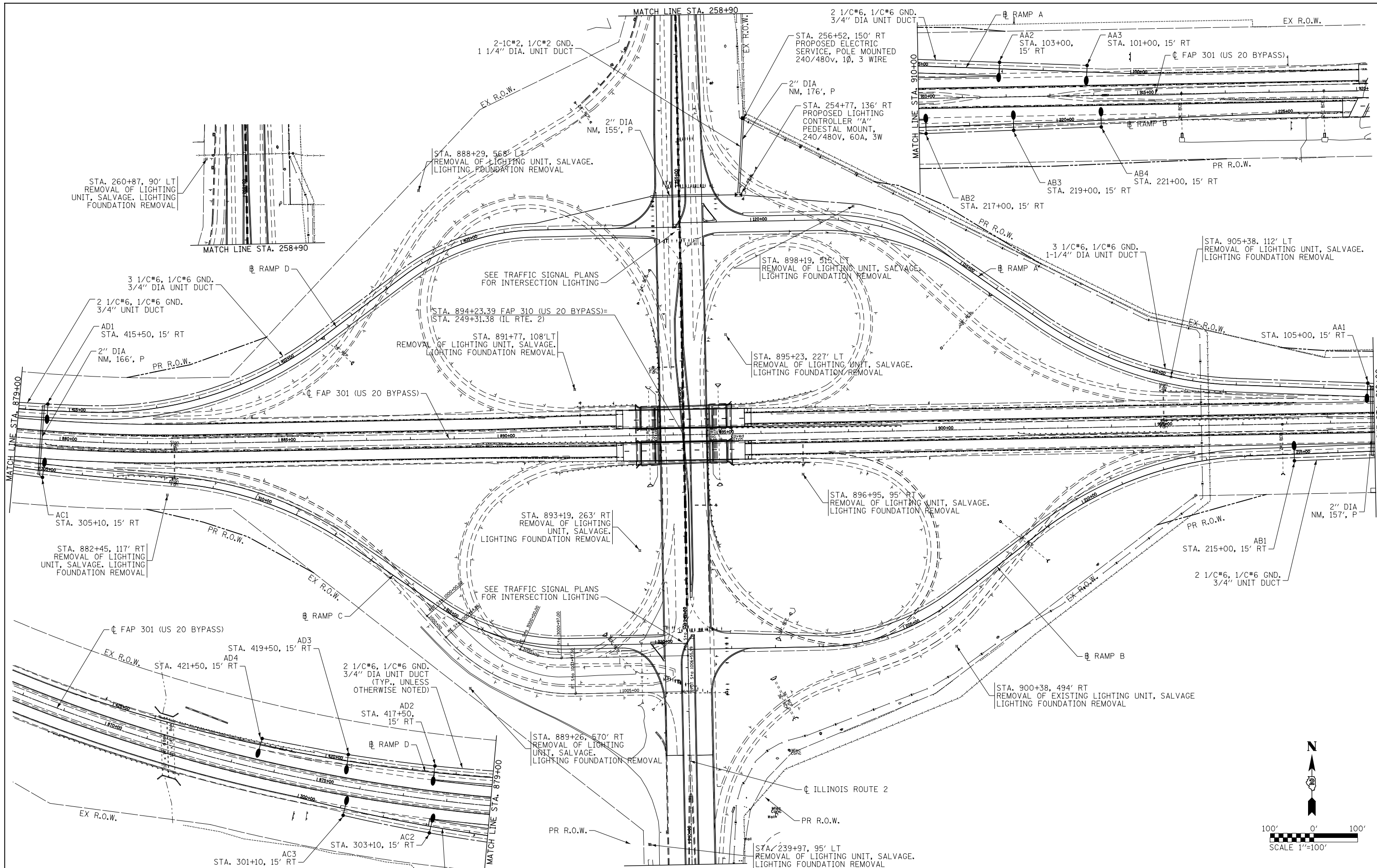


**NOTES:**

1. TEMPORARY LIGHTING CONTROLLER "T" SHALL BE ATTACHED TO A SERVICE INSTALLATION POLE AT STA. 906+45, 125' LT AS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER.
2. TEMPORARY LIGHTING UNIT SHALL CONSIST OF LUMINAIRE, SODIUM VAPOR, MULTI-MOUNT, 400 WATT AND LIGHT POLE, WOOD, 60 FOOT, CLASS 4, SPECIAL. THE MINIMUM MOUNTING HEIGHT FOR THE LIGHTING UNIT SHALL BE 35 FOOT.
3. ALL TEMPORARY LIGHTING ITEMS, THEIR INSTALLATION AND REMOVAL SHALL BE INCLUDED IN "TEMPORARY LIGHTING SYSTEM" PAY ITEM.



<b>KNIGHT</b> <small>Engineers &amp; Architects</small>	USER NAME = dsiwo	DESIGNED - PMO	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>TEMPORARY LIGHTING PLAN</b>	F.A.P. RTE. 742	SECTION 3HBR	COUNTY WINNEBAGO	TOTAL SHEETS 689	SHEET NO. 469
	PLOT SCALE = 1:1000	DRAWN - PMO	REVISED -			CONTRACT NO. 64B87				
	PLOT DATE = 8/16/2018	CHECKED - DMS	REVISED -			SCALE: SHEET NO. OF SHEETS STA. TO STA.				
						FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



**KNIGHT**  
Engineers & Architects

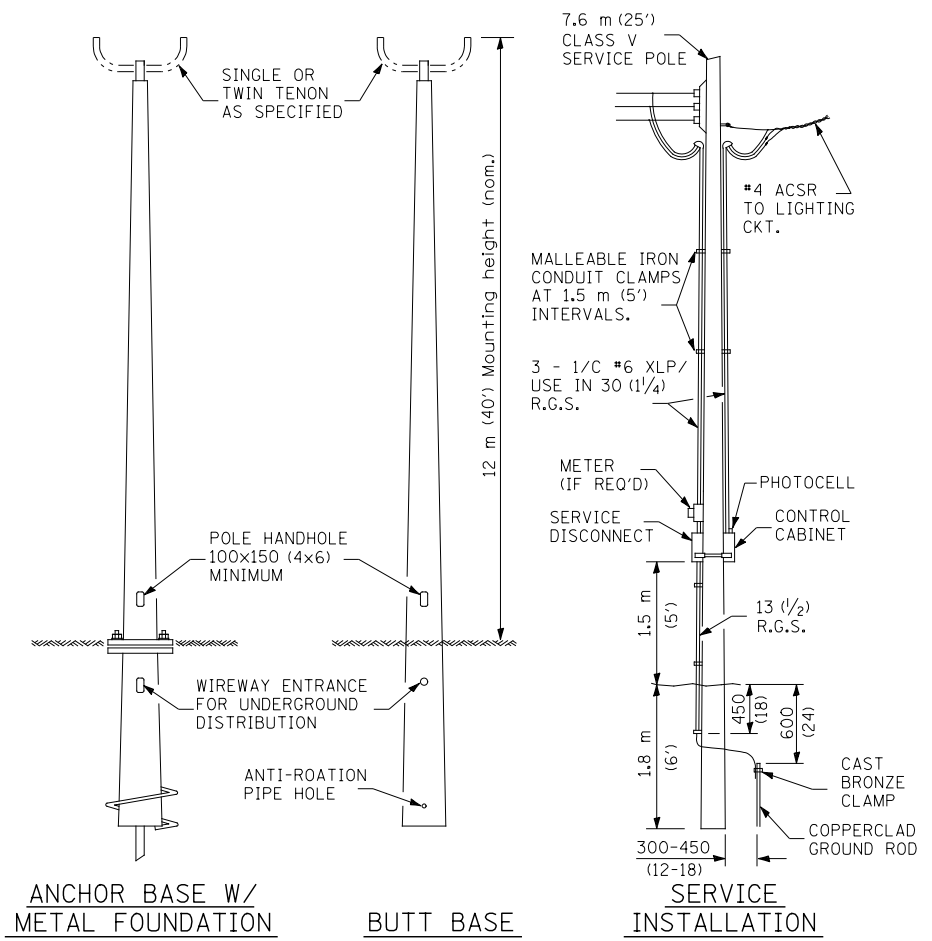
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PLOT SCALE = 1:200	DRAWN - PMO	REVISED -
PLOT DATE = 8/16/2018	CHECKED - DMS	REVISED -
	DATE - 08-15-2018	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**LIGHTING PLAN**

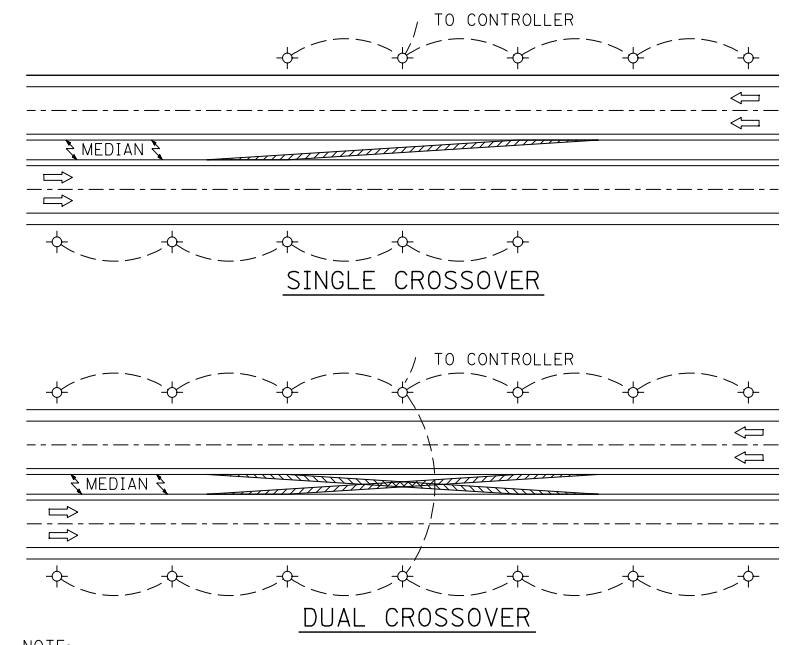
SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
742	3HBR	WINNEBAGO	689	470
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 64B87	



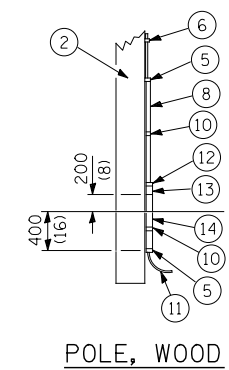
ANCHOR BASE W/  
METAL FOUNDATION      BUTT BASE      SERVICE  
INSTALLATION

POLE, FIBERGLASS  
BREAKAWAY TYPE



NOTE:  
MIN. POLE SPACING 60 m (200')  
MAX. POLE SPACING 75 m (250')

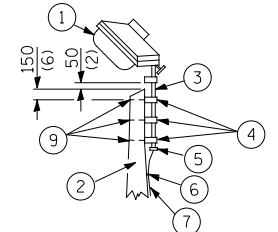
SETBACK SHALL BE MIN. 9 m (30')  
OR 1.5 m (5') BACK OF DITCH, UNLESS  
BREAKAWAY TYPE POLE IS USED.



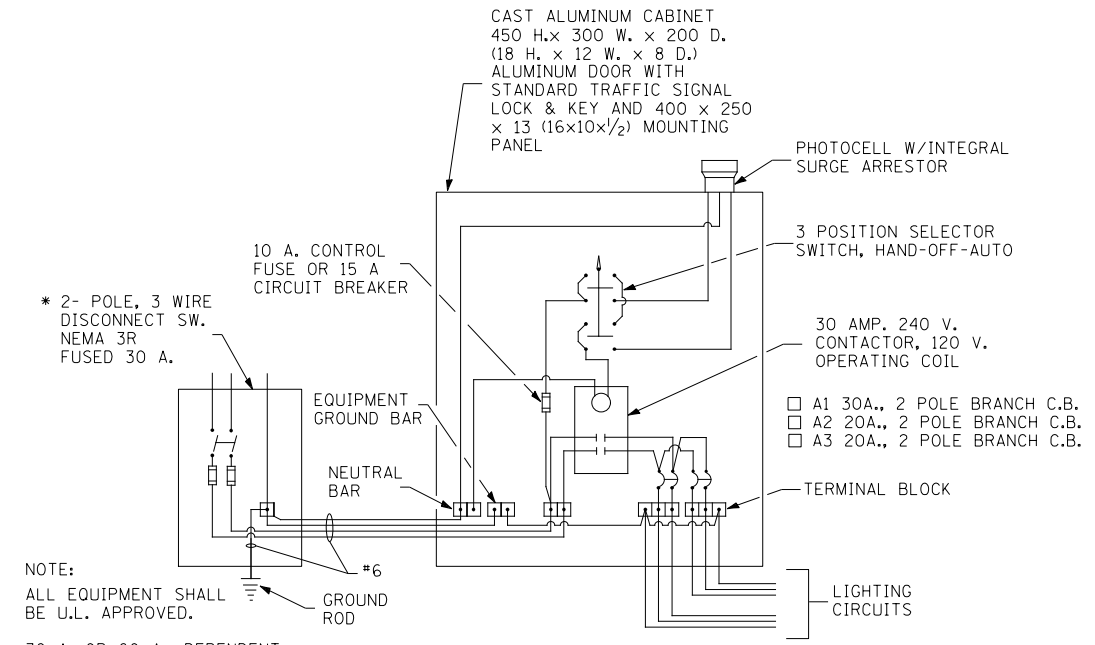
POLE LENGTH	DEPTH IN GROUND
19.8 m (65')	3.6 m (12')
18.0 m (60')	3.0 m (10')
16.8 m (55')	2.7 m (9')
16.0 m (50')	2.4 m (8')
13.7 m (45')	2.1 m (7')
12.0 m (40')	2.0 m (6.5')
10.7 m (35')	1.8 m (6')
9.0 m (30')	1.7 m (5.5')

NOTE:  
LUMINAIRE(S) SHALL BE ORIENTED AND THE  
MOUNTING ANGLE ADJUSTED AS RECOMMENDED  
BY THE ENGINEER.

CONNECT LUMINAIRE EQUIPMENT GROUND TO  
ACSR MESSENGER.



- ① LUMINAIRE
- ② WOOD POLE, CLASS 3 OR BETTER
- ③ 63 (2 1/2) GALV. STEEL CONDUIT
- ④ SINGLE OFFSET POLE BAND
- ⑤ CONDUIT BUSHING
- ⑥ CABLE CLAMPS ON 600 (24) CENTERS
- ⑦ 2/C #12 TYPE USE CABLE
- ⑧ 25 (1) GALV. STEEL CONDUIT 3.0 m (10') IN LENGTH
- ⑨ 16 (5/8) Ø HOT DIPPED GALVANIZED BOLT WITH FLAT WASHER & LOCKNUT (3 REQ'D)
- ⑩ CONDUIT CLAMPS ON 900 (36) CENTERS
- ⑪ UNIT DUCT
- ⑫ THREADED REDUCER
- ⑬ "C" CONDULET, THREADED
- ⑭ 40 (1 1/2) GALV. STEEL CONDUIT FOR 1 UNIT DUCT OR 75 (3) GALV. STEEL CONDUIT FOR 2 OR 3 UNIT DUCTS.



NOTE:  
ALL EQUIPMENT SHALL  
BE U.L. APPROVED.

\* 30 A. OR 60 A., DEPENDENT  
UPON UTILITY CO. RULES.

WIRING DIAGRAM

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

LOCATION: US 20 at IL 2  
SECTION: 3HBR  
DISTRICT: 2  
COUNTY: WINNEBAGO

**ILLINOIS DEPARTMENT OF TRANSPORTATION  
LUMINAIRE PERFORMANCE TABLE**  
Isolated Intersection

**GIVEN CONDITIONS**

<b>ROADWAY DATA</b>	Lane Width	12 ft
	Number of Lanes (in each direction)	2
	Median Width	37 ft
	I.E.S. Surface Classification	R3
	Q-Zero Value	.07
<b>LIGHT POLE DATA</b>	Mounting Height	47.5 ft
	Arm Length	15 ft
	Set-Back From Edge of Pavement (White Line)	15 ft
<b>LUMINAIRE DATA</b>	Luminaire Type	LED
	BUG Rating	U = 0
	I.E.S. Lateral Distribution	Type
	Total Light Loss Factor	0.684
<b>LAYOUT DATA</b>	Spacing	200 ft
	Configuration	Staggered

- NOTES:**
- Variations from the above specified I.E.S. distribution may be requested and will be subject to review by the Engineer.
  - Total light loss factor is the product of "Lumen Depreciation" (LLD) = 0.90, "Dirt Depreciation" (LDF) = 0.80, and "Equipment factors" (EF) = 0.95.
  - A Lumen Depreciation value greater than 0.90 for LED light sources shall be based upon I.E.S. LM-80 or I.E.S. LM-84 and I.E.S. TM-21 test reports.

**PERFORMANCE REQUIREMENTS**

**NOTE:** These performance requirements shall be the minimum acceptable standards of photometric performance for the luminaire, based on the given conditions listed above.

<b>ILLUMINANCE</b>	Average Illuminance, $E_{AVE}$	0.9 fc
	Uniformity Ratio, $E_{AVE}/E_{MIN}$	3.0:1
	Max. Veiling Luminance Ratio, $L_v/L_{AVE}$	0.3:1



USER NAME = dsilvo	DESIGNED - PMO	REVISED -
	DRAWN - PMO	REVISED -
PLOT SCALE = 1:40	CHECKED - DMS	REVISED -
PLOT DATE = 8/16/2018	DATE - 08-15-2018	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**LIGHTING LUMINAIRE PERFORMANCE TABLE**

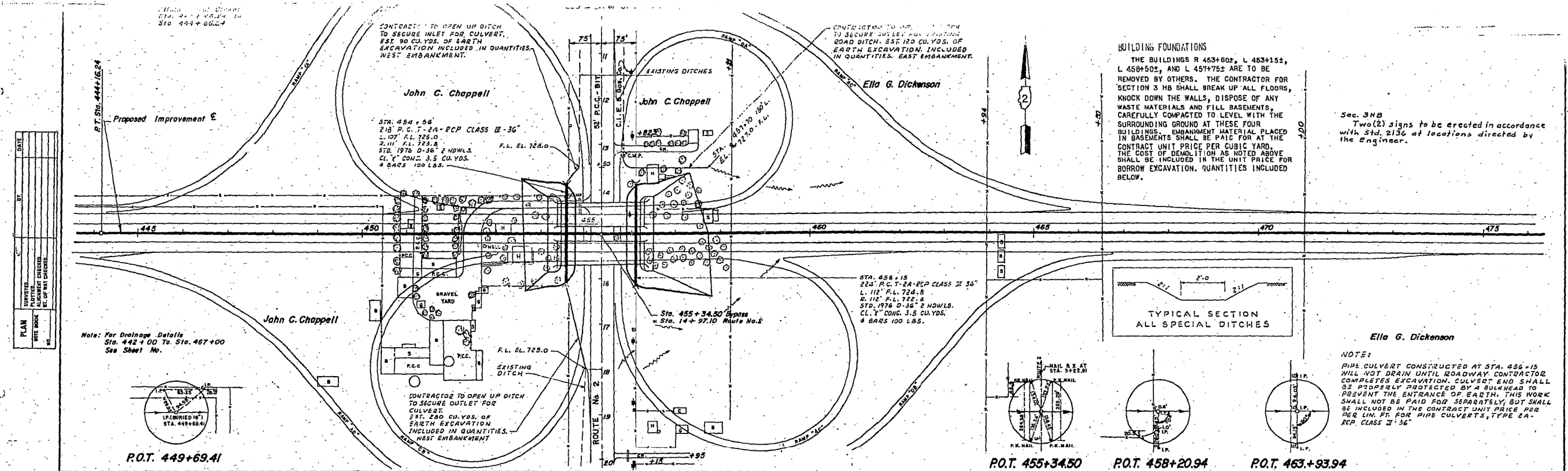
SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
742	3HBR	WINNEBAGO	689	472
			CONTRACT NO. 64B87	
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		





# FOR INFORMATION ONLY



**BUILDING FOUNDATIONS**  
 THE BUILDINGS R 453+602, L 453+151, L 456+502, AND L 457+752 ARE TO BE REMOVED BY OTHERS. THE CONTRACTOR FOR SECTION 3 HB SHALL BREAK UP ALL FLOORS, KNOCK DOWN THE WALLS, DISPOSE OF ANY WASTE MATERIALS AND FILL BASEMENTS, CAREFULLY COMPACTED TO LEVEL WITH THE SURROUNDING GROUND AT THESE FOUR BUILDINGS. EMBANKMENT MATERIAL PLACED IN BASEMENTS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC YARD. THE COST OF DEMOLITION AS NOTED ABOVE SHALL BE INCLUDED IN THE UNIT PRICE FOR BORROW EXCAVATION. QUANTITIES INCLUDED BELOW.

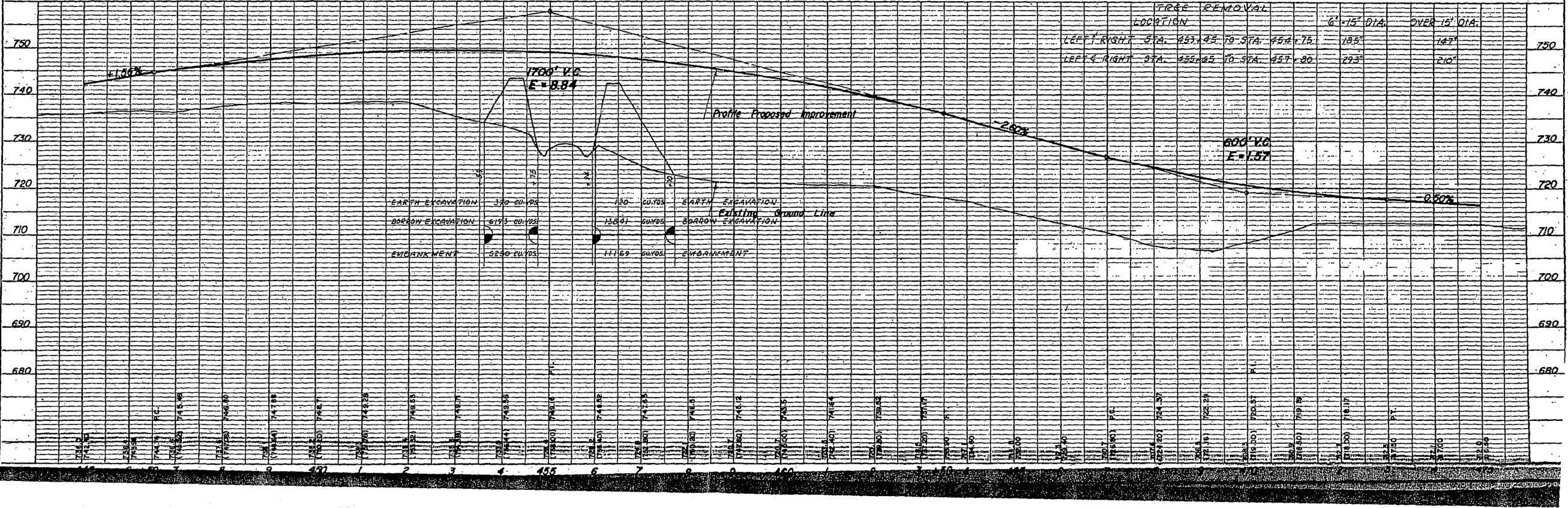
Sec. 3HB  
 Two (2) signs to be erected in accordance with Std. 2136 at locations directed by the Engineer.



**NOTE:**  
 PIPE CULVERT CONSTRUCTED AT STA. 456+15 WILL NOT DRAIN UNTIL ROADWAY. CONTRACTOR COMPLETES EXCAVATION. CULVERT END SHALL BE PROPERLY PROTECTED BY A BULKHEAD TO PREVENT THE ENTRANCE OF EARTH. THIS WORK SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER PER LIN. FT. FOR PIPE CULVERTS, TYPE 2A-PCP CLASS II-36"

DATE	BY	REVISION

DATE	BY	REVISION

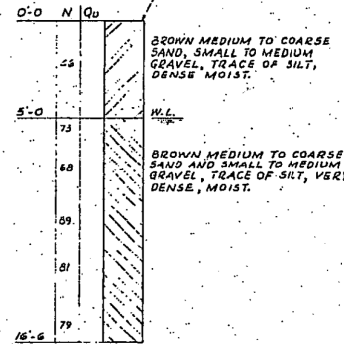


LOCATION	FREE REMOVAL	6'-15" DIA.	OVER 15" DIA.
LEFT & RIGHT STA. 453.45 TO STA. 454.75	105'	187'	720
LEFT & RIGHT STA. 455.65 TO STA. 457.00	293'	210'	740

# FOR INFORMATION ONLY

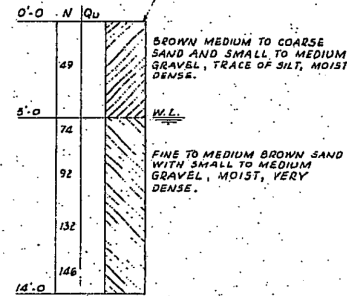
## BORING NO. 1

STA. 454+33 (BYPASS)  
ABUT. #1  
32' LEFT OF E ROCKFORD BYPASS  
GROUND ELEV. = 724.3'



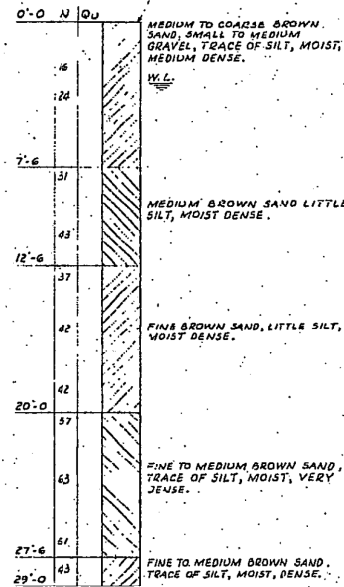
## BORING NO. 2

STA. 454+33 (BYPASS)  
PIER #1  
32' RIGHT OF E ROCKFORD BYPASS  
GROUND ELEV. = 727.7'



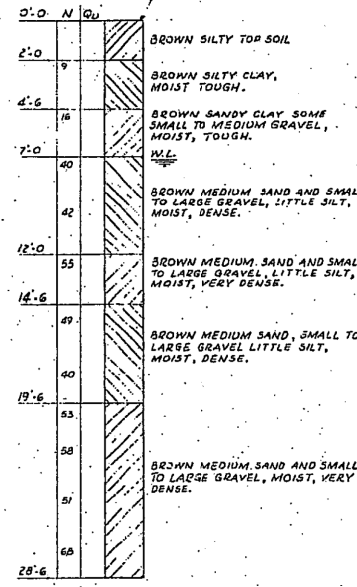
## BORING NO. 3

STA. 455+06 (BYPASS)  
PIER #2  
32' LEFT OF E ROCKFORD BYPASS  
GROUND ELEV. = 727.9'



## BORING NO. 4

STA. 456+36 (BYPASS)  
ABUT. #2  
32' RIGHT OF E ROCKFORD BYPASS  
GROUND ELEV. = 726.9'



### BORING NOTES:

N = NUMBER OF BLOWS PER FT FOR A 140# HAMMER FALLING 30"  
Q<sub>u</sub> = UNCONFINED COMPRESSIVE STRENGTH IN KIPS PER SQ. FT.

### GENERAL NOTES

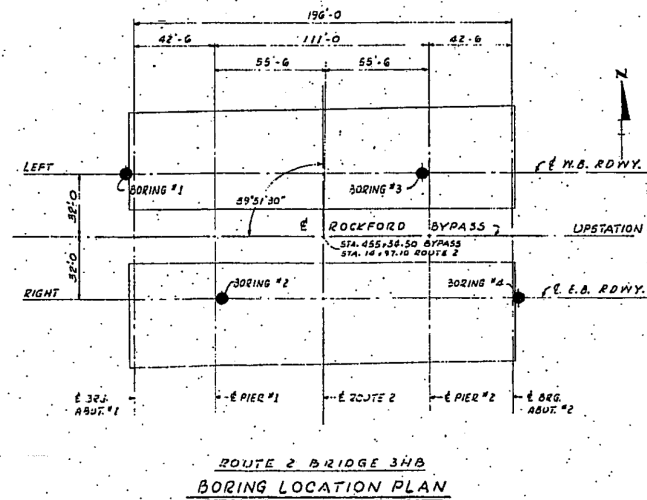
CLASS "X" CONCRETE SHALL BE USED THROUGHOUT.  
ALL EXPOSED EDGES SHALL HAVE A 3/4" CHAMFER EXCEPT AS NOTED.  
THE CONCRETE FLOOR SLAB SHALL BE FINISHED IN ACCORDANCE WITH ART. 51.19 (C) OF THE STANDARD SPECIFICATIONS.  
RED CLASS "X" CONCRETE CALLED FOR ON PLANS SHALL CONFORM TO REQUIREMENTS AS SET FORTH IN THE SPECIAL PROVISIONS.  
RIVETS 3/8" OPEN HOLES, 1/8" UNLESS NOTED.  
ALL BOLTERS, ROCKERS, BEARING PLATES, LEAD PLATES, PINTLES AND ANCHOR BOLTS SHALL BE FABRICATED AND SET IN ACCORDANCE WITH ART. 51.15 OF THE STANDARD SPECIFICATIONS AND ARE INCLUDED IN QUANTITY OF STRUCTURAL STEEL.  
ANCHOR BOLTS SHALL BE SET BEFORE RIVETING DIAPHRAGMS OVER SUPPORTS.  
ALL STEEL HANDRAIL POSTS SHALL BE VERTICAL.  
EXPANSION GUARDS SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH ART. 51.13 (2) OF THE STANDARD SPECIFICATIONS AND ARE INCLUDED IN QUANTITY OF STRUCTURAL STEEL.  
THE OUTSIDE FACE OF THE VERTICAL LEGS OF THE EXPANSION GUARDS SHALL BE GIVEN TWO SHOP COATS OF RED LEAD PAINT.  
EXCEPT AS OTHERWISE NOTED, ALL STRUCTURAL STEEL SHALL RECEIVE ONE SHOP COAT OF RED LEAD PAINT AND TWO FIELD COATS OF ALUMINUM PAINT. SEE ART. 56.1 TO 56.5 INCLUSIVE OF THE STANDARD SPECIFICATIONS.  
REINFORCEMENT BARS SHALL BE PLACED EXACTLY AS SHOWN ON THE PLANS AND IN ACCORDANCE WITH ART. 59.3 OF THE STANDARD SPECIFICATIONS.  
THE CONTRACTOR SHALL DRIVE TWO CONCRETE TEST PILES, ONE AT ABUTMENT #1 AND ONE AT ABUTMENT #2 IN A PERMANENT LOCATION AND TWO TIMBER TEST PILES SHALL BE DRIVEN, ONE IN THE VICINITY OF THE WINGWALL AT ABUTMENT #1 AND ONE IN THE VICINITY OF THE WINGWALL AT ABUTMENT #2, BEFORE ORDERING THE REMAINDER OF THE PILES.  
ABUTMENT PILES SHALL BE DRIVEN IN HOLES PRE-CORED THRU EMBANKMENT TO NATURAL GROUND LINE IN ACCORDANCE WITH ART. 60.9 (C) OF THE STANDARD SPECIFICATIONS.  
SLOPE WALLS SHALL BE REINFORCED WITH #4-6" WELDED WIRE FABRIC.  
ALL COVER PLATES AND BEAMS TO WHICH COVER PLATES ARE TO BE WELDED SHALL CONFORM TO THE SPECIFICATIONS FOR STRUCTURAL STEEL FOR WELDING A.S.T.M. DESIGNATION A-375

### SUMMARY OF QUANTITIES SECTION 3HB

CODE NO.	ITEM	UNIT	SUPER STRUCTURE	SUB STRUCTURE	TOTAL
013001	BORROW EXCAVATION	CU. YDS.			20934
011001	EARTH EXCAVATION	CU. YDS.			199
050001	CLASS "X" EXCAVATION FOR STRUCTURES	CU. YDS.			542
052003	CLASS "X" CONCRETE	CU. YDS.	554.4	318.9	1073.3
054003	ERECTING STRUCTURAL STEEL	LBS.	1069144		1069144
055001	FURNISHING AND ERECTING METAL HANDRAIL	LIN. FT.			788
057001	REINFORCEMENT BARS	LBS.	110420	56572	166992
060010	FURNISHING PRECAST CONCRETE PILES, 14"	LIN. FT.			1050
060013	DRIVING PRECAST CONCRETE PILES	LIN. FT.			1050
060005	FURNISHING CROSSEDOT PILES (20" TO 38")	LIN. FT.			1320
060008	DRIVING TIMBER PILES	LIN. FT.			1820
060012	TEST PILES (PRECAST CONCRETE)	EACH			2
060007	TEST PILES (TIMBER)	EACH			2
061001	WARRANT PLATES	EACH			2
083001	SLOPEMILL	SQ. YDS.			1139
060092	METAL SHOES	EACH			66
058103	PIPE CULVERTS, TYPE 2A (RCP CLASS III) 36" UN. FT.	LIN. FT.			112
010001	TREE REMOVAL (6" IS DIA.)	IN. DIA.			278
010002	TREE REMOVAL (OVER 15" DIA.)	IN. DIA.			357

### SUMMARY OF QUANTITIES SECTION 3HF

CODE NO.	ITEM	UNIT	SUPER STRUCTURE	SUB STRUCTURE	TOTAL
054002	FURNISHING STRUCTURAL STEEL	LBS.	1069144		1069144



ILLINOIS DIVISION OF HIGHWAYS  
ROCKFORD BYPASS  
F. A. ROUTE 194  
PROJECT SECTION 3HB  
WINNEBAGO COUNTY  
GENERAL NOTES - BORING LOGS  
SUMMARY OF QUANTITIES

KNIGHT

Engineers & Architects

USER NAME = dsilwo	DESIGNED -	REVISED -
PLOT SCALE = 1:2	DRAWN -	REVISED -
PLOT DATE = 8/16/2018	CHECKED -	REVISED -
	DATE -	REVISED -

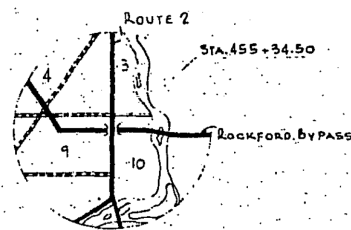
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE RECORD PLANS

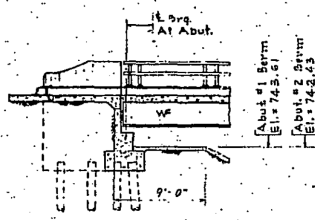
SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	3HBR	WINNEBAGO	689	475
CONTRACT NO. 64B87				
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

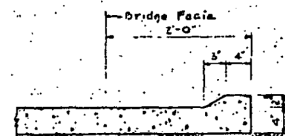
# FOR INFORMATION ONLY



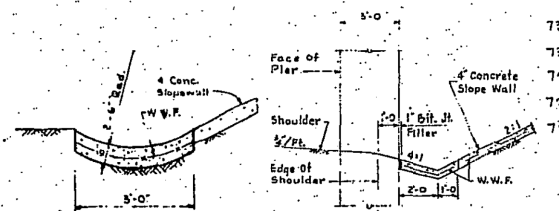
VICINITY MAP  
T. 43 N., R. 1 E., 34<sup>th</sup> P.M.



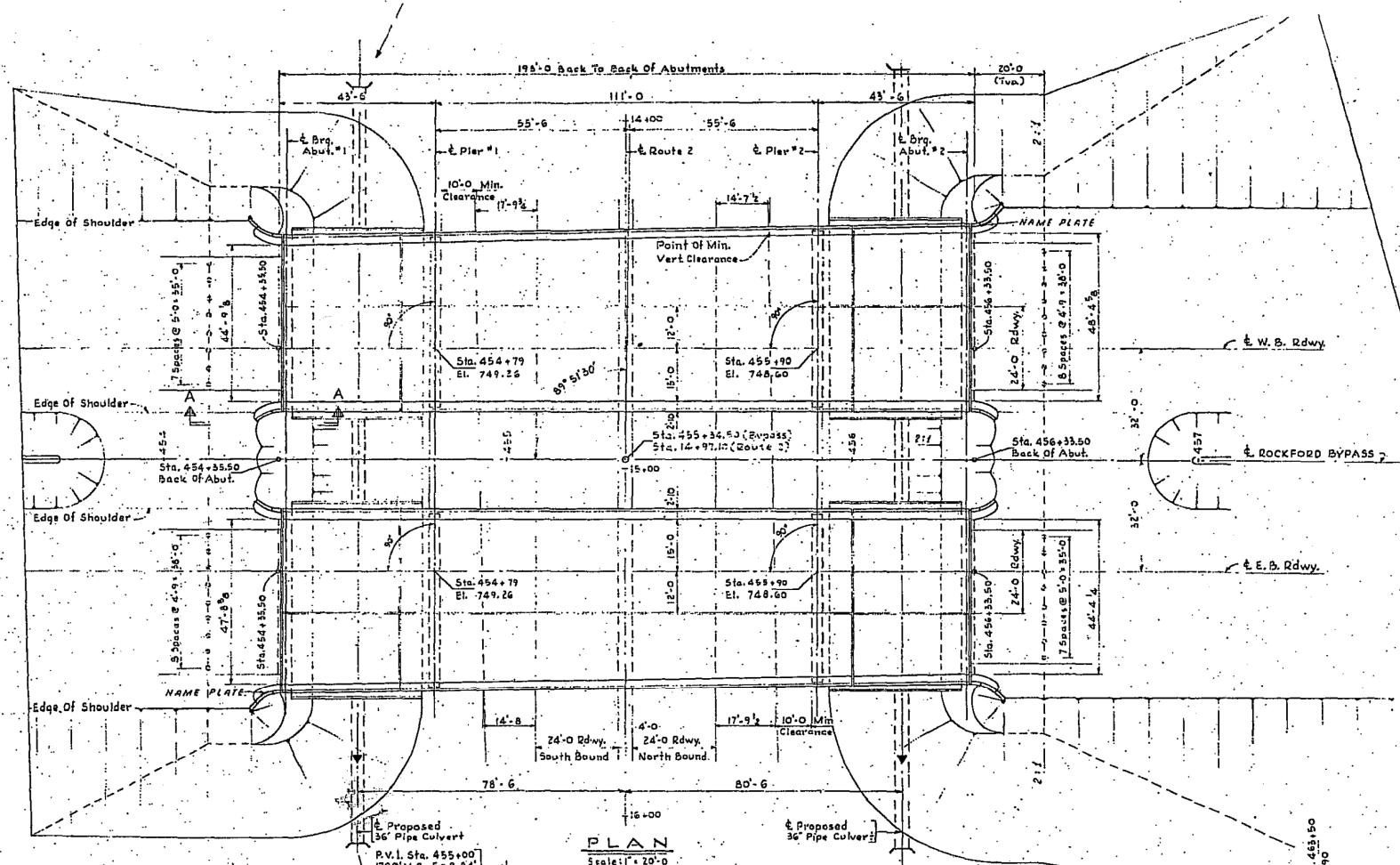
SECTION A-A



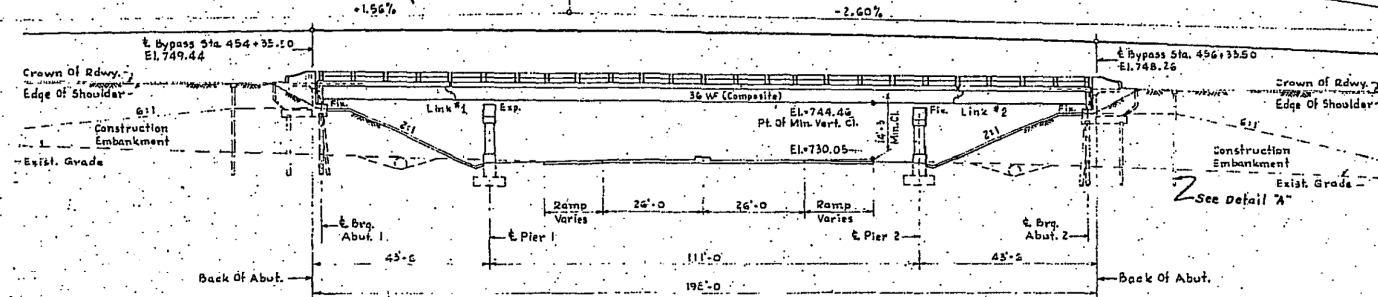
SLOPEWALL CURB



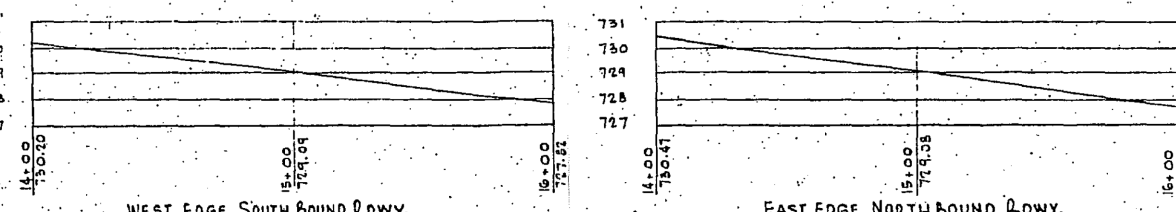
PAVED DITCH DETAIL OF SLOPEWALL AT PIER



PLAN  
Scale: 1" = 20'-0"



ELEVATION  
Scale: 1" = 20'-0"

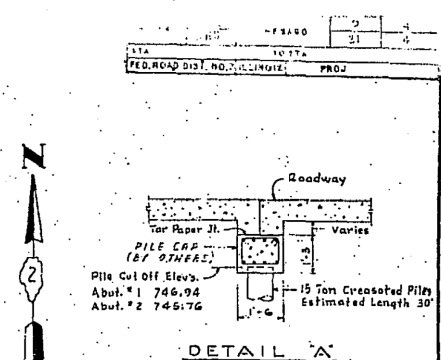


WEST EDGE SOUTH BOUND RDWY.

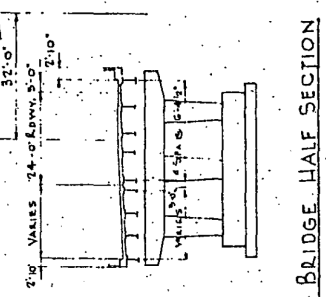
EAST EDGE NORTH BOUND RDWY.

PROFILE - ROUTE 2  
HORIZ. 1" = 30' VERT. 1" = 3'-0"

STATION 455+34.50  
BUILT 196 BY  
STATE OF ILLINOIS  
FA RT. 194 SEC. 3HB  
FA. PROJ. U-28 4(4)  
LOADING H20-S16  
SEE STATE OF ILL. STD. 2113  
NAME PLATE  
(2 REQ'D)



DETAIL A



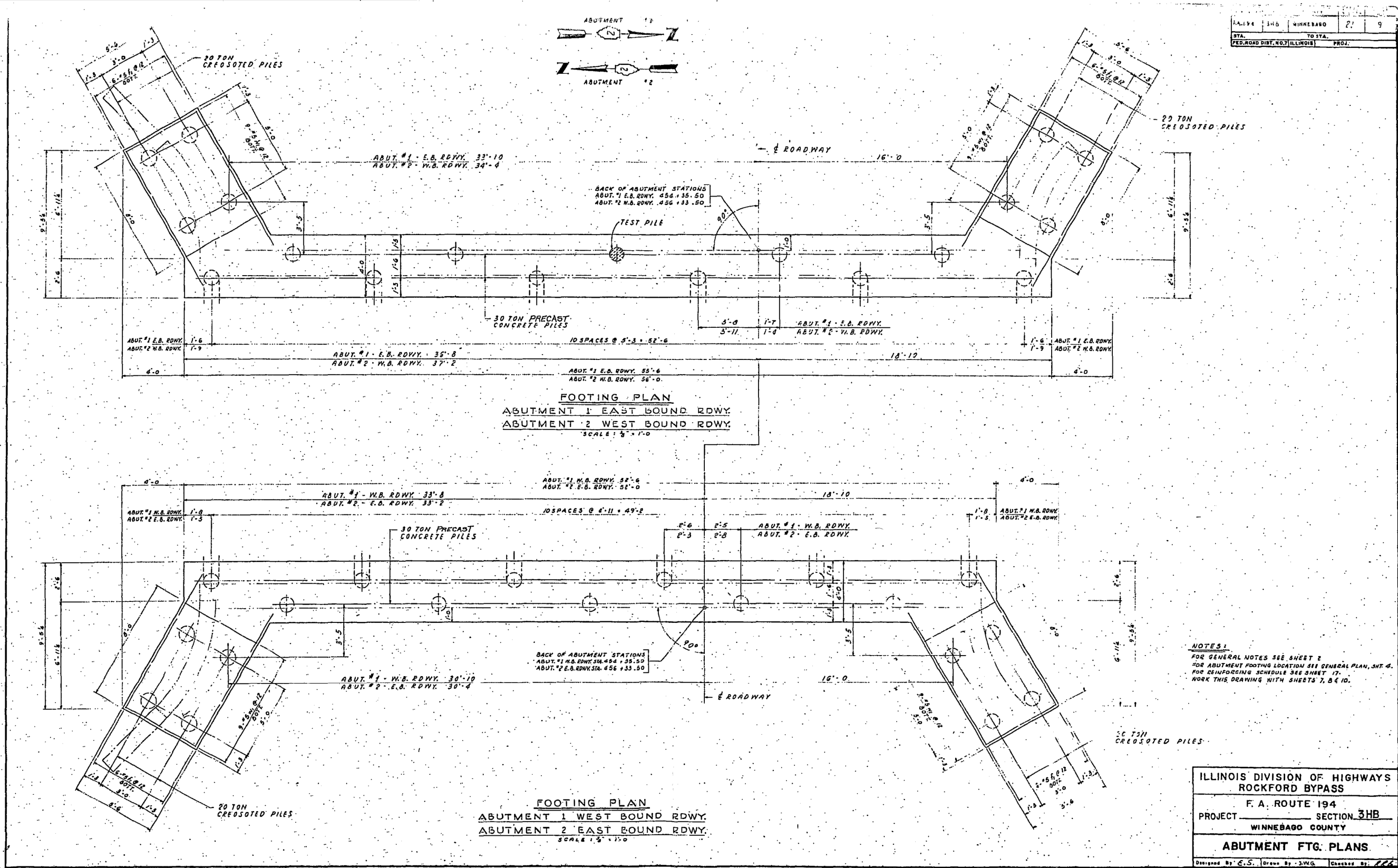
BRIDGE HALF SECTION

DESIGN DATA

- SPECIFICATIONS:**  
A.A.S.H.O. Dated 1957, Standard Specifications For Road And Bridge Construction Dated January 2, 1956.
- LOADING:**  
L L H20-S16-44  
D L 20 P.S.F. Future Wearing Surface
- STRESSES:**
- CONCRETE:**  
fc = 4000 P.S.I. Superstructure (R = 10)  
fc = 1000 P.S.I. Substructure (With Earth Pressure)  
fc = 1400 P.S.I. Substructure (Without Earth Pressure)  
75 P.S.I. Max. Allowable V In Pier Footings
- STEEL:**  
Structural = 15000 P.S.I.  
Reinforcing = 20000 P.S.I.

ILLINOIS DIVISION OF HIGHWAYS  
ROCKFORD BYPASS  
F A ROUTE 194  
PROJECT SECTION 3HB  
WINNEBAGO COUNTY  
**GENERAL PLAN**  
Designed By E.S. Drawn By G.W.G. Checked By R.K.G.

# FOR INFORMATION ONLY



USER NAME = dslwo	DESIGNED -	REVISED -
PLOT SCALE = 1/2	DRAWN -	REVISED -
PLOT DATE = 8/16/2018	CHECKED -	REVISED -
	DATE -	REVISED -

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	3HBR	WINNEBAGO	689	477
CONTRACT NO. 64B87				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

# FOR INFORMATION ONLY

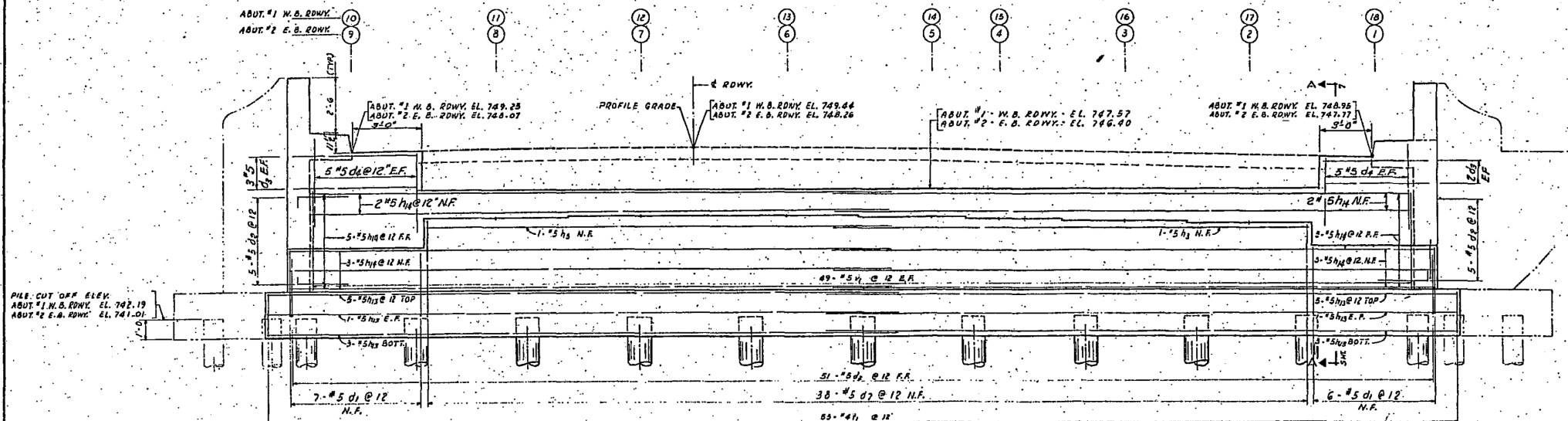
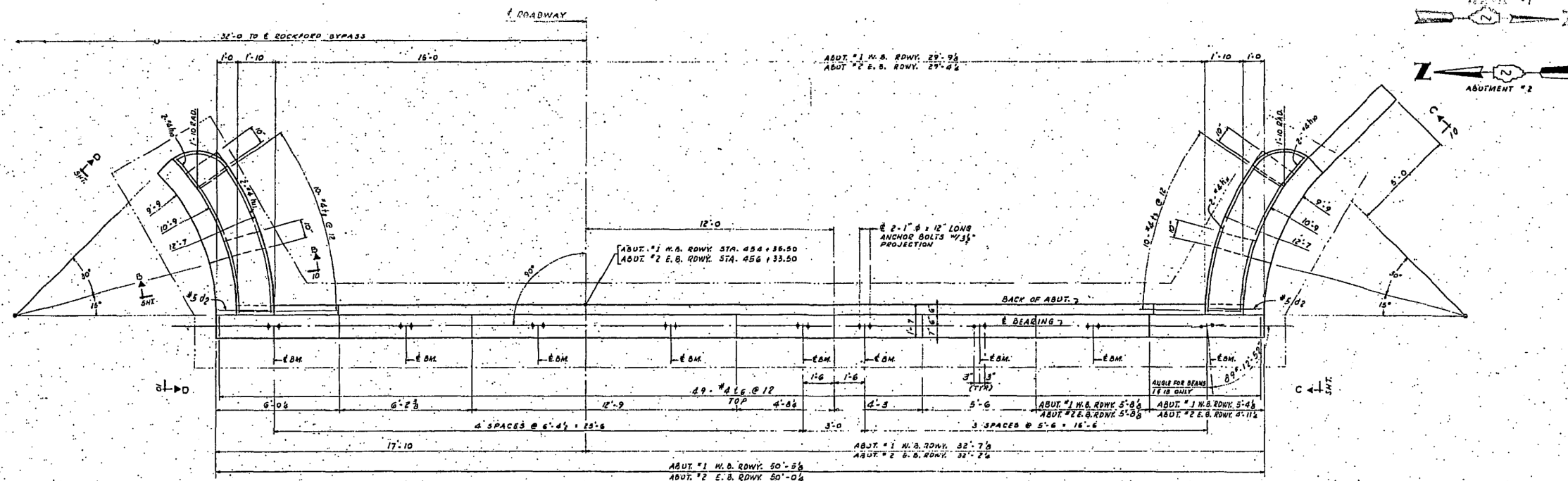


TABLE OF ELEVATIONS

BEAM LOCATION	10	11	12	13	14	15	16	17	18
ABUT. #1 W.B. RDWK.	745.49	746.62	746.63	746.38	746.60	746.53	746.42	746.31	745.19
ABUT. #2 E.B. RDWK.	744.31	745.44	745.43	745.49	745.41	745.35	745.26	745.13	744.01

NOTE: ELEVATIONS SHOWN ARE GIVEN TO TOP OF CONCRETE.

NOTES:  
FOR GENERAL NOTES SEE SHEET 2  
FOR ABUTMENT LOCATION SEE GENERAL PLAN SHEET 4.  
FOR REINFORCING SCHEDULES SEE SHEET 17  
WORK THIS DRAWING WITH SHEETS 1, 2 & 10.

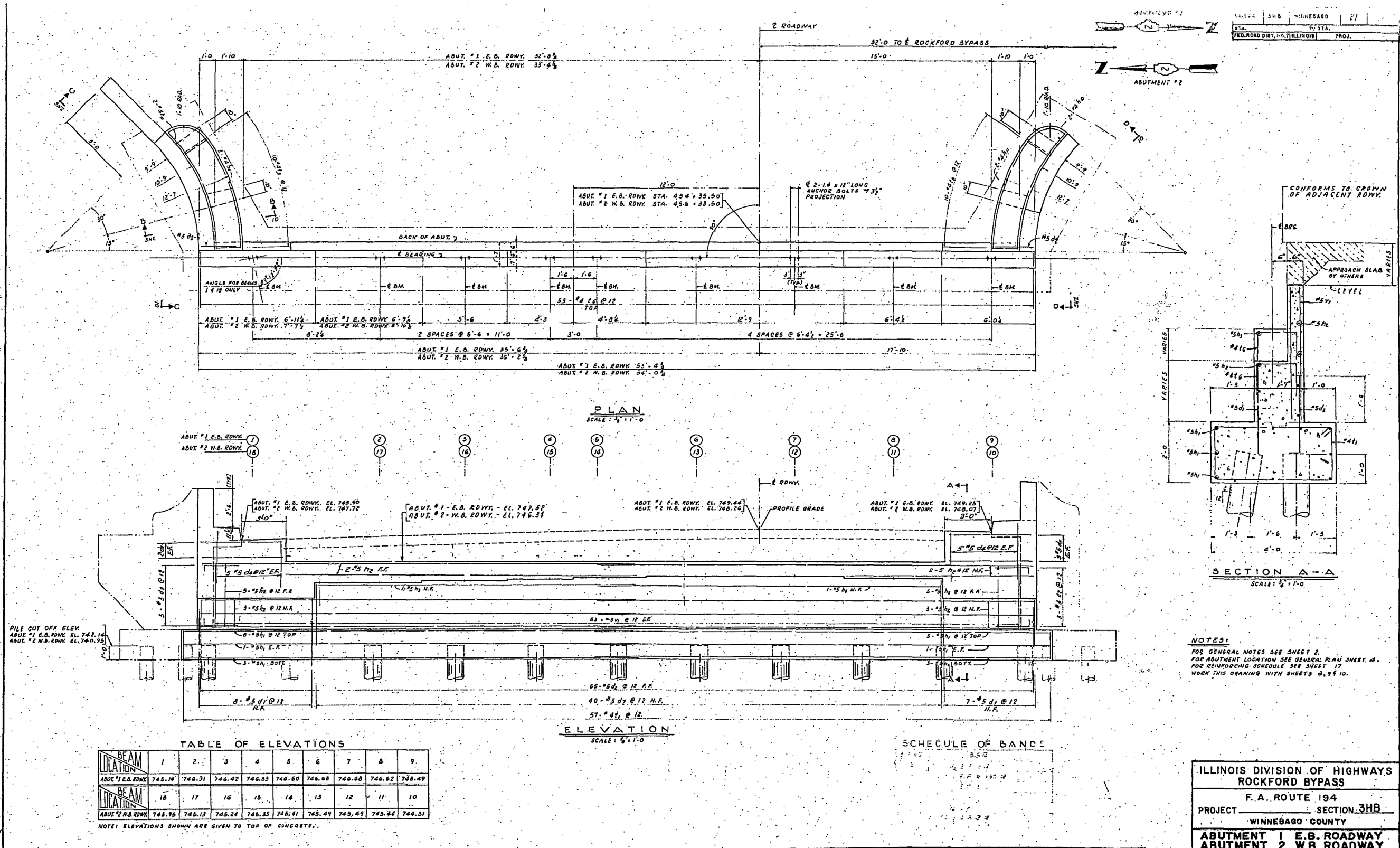
ILLINOIS DIVISION OF HIGHWAYS  
ROCKFORD BYPASS

F. A. ROUTE 194  
PROJECT SECTION 3HB  
WINNEBAGO COUNTY

ABUTMENT 1 W.B. ROADWAY  
ABUTMENT 2 E.B. ROADWAY

Designed By: E.S. Drawn By: G.W.G. Checked By: [Signature]

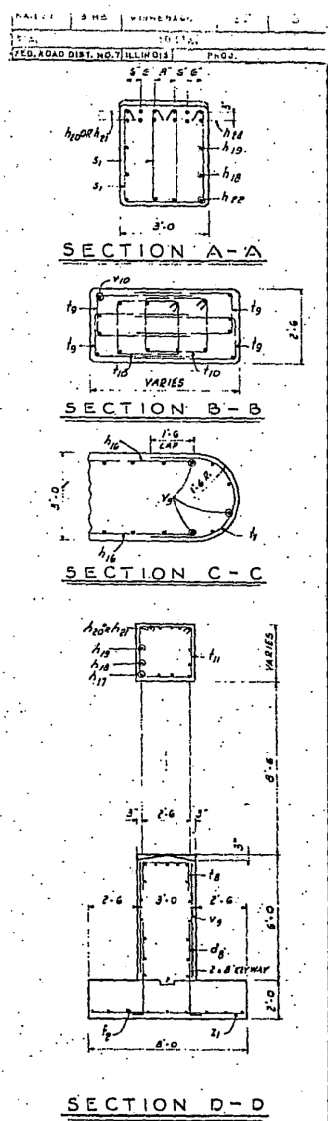
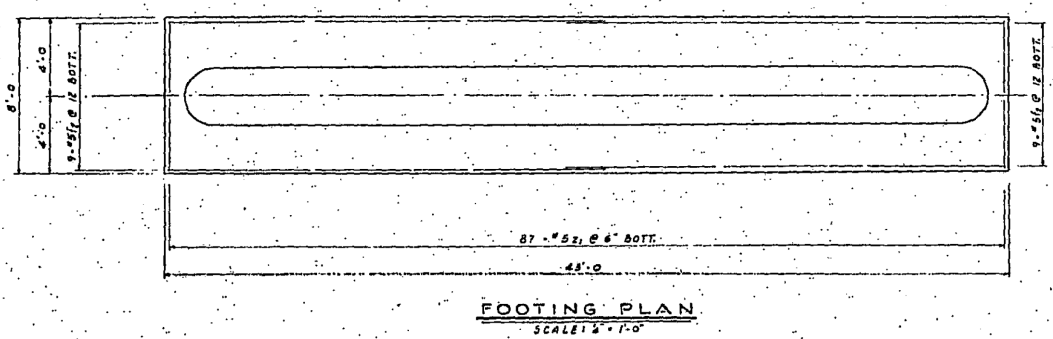
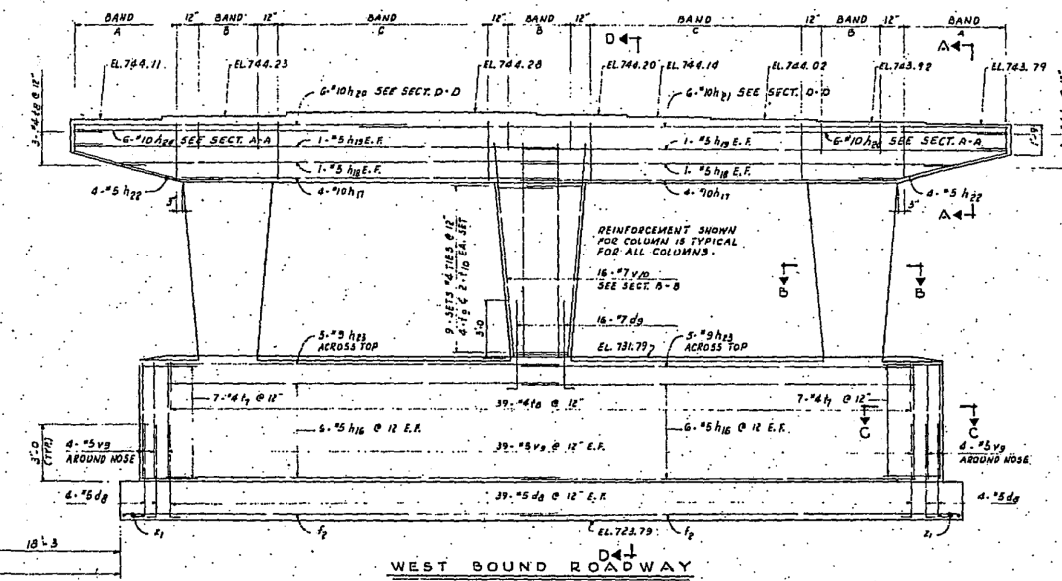
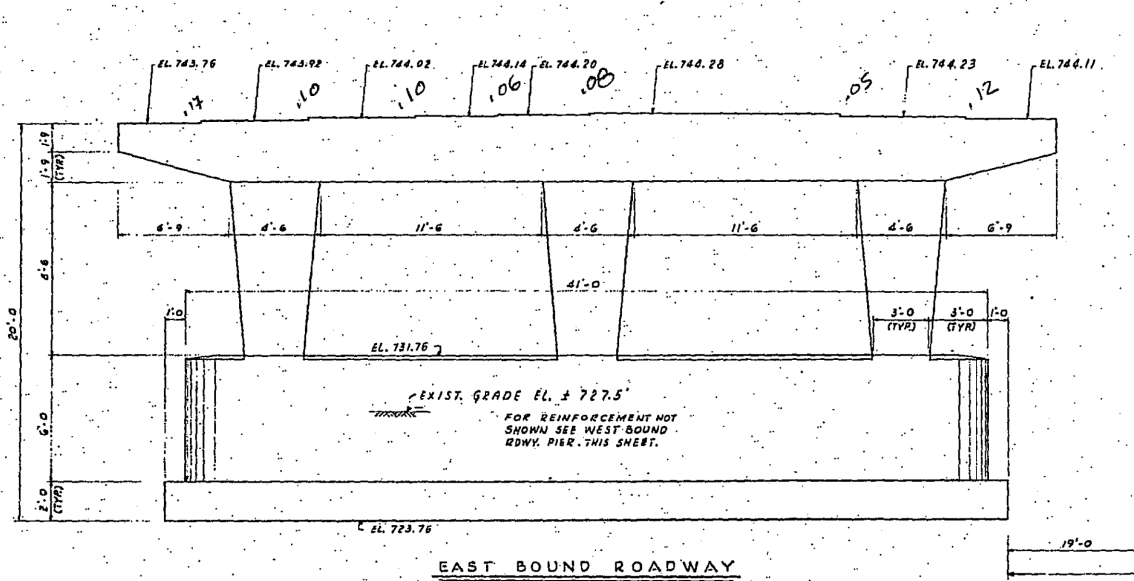
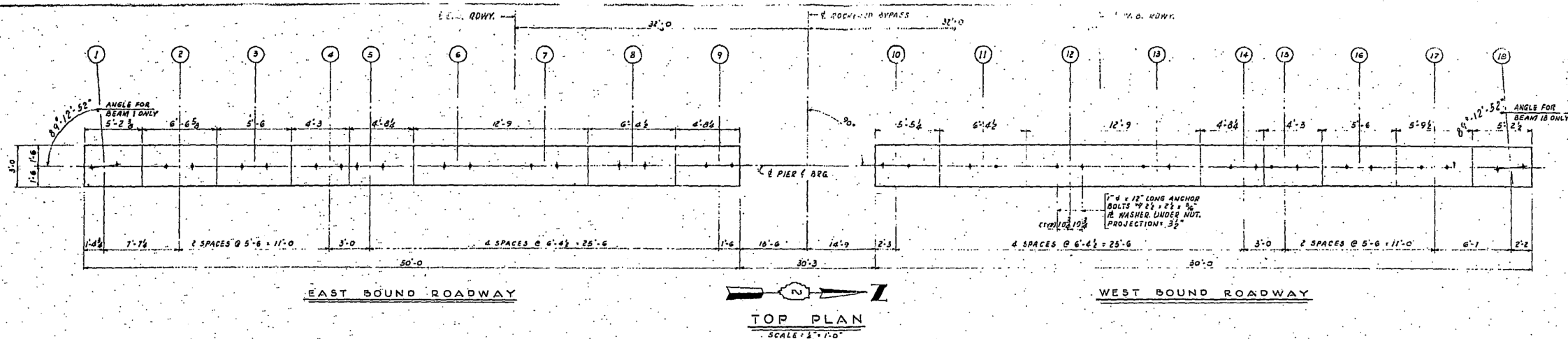
# FOR INFORMATION ONLY



**NOTES:**  
 FOR GENERAL NOTES SEE SHEET 2.  
 FOR ABUTMENT LOCATION SEE GENERAL PLAN SHEET 4.  
 FOR REINFORCING SCHEDULE SEE SHEET 17.  
 WORK THIS DRAWING WITH SHEETS 3, 9 & 10.

ILLINOIS DIVISION OF HIGHWAYS  
 ROCKFORD BYPASS  
 F. A. ROUTE 194  
 PROJECT SECTION 3HB  
 WINNEBAGO COUNTY  
 ABUTMENT 1 E.B. ROADWAY  
 ABUTMENT 2 W.B. ROADWAY

# FOR INFORMATION ONLY



**NOTES:**  
FOR GENERAL NOTES SEE SHEET 2.  
FOR PIER LOCATION SEE GENERAL PLAN SHEET 4.  
FOR REINFORCING SCHEDULE SEE SHEET 17.  
ELEVATIONS ON PIER GAPS ARE GIVEN TO TOP OF CONCRETE.  
ALLOWABLE SOIL BEARING VALUE = 4500 P.S.F.

**TIES**

BAND	BAR
A	13 SETS * 5 STIRROPS @ 6", 2-5, EA. SET
B	4-41 @ 12"
C	23-51 @ 6"

**QUANTITIES FOR PIER NO. 1**

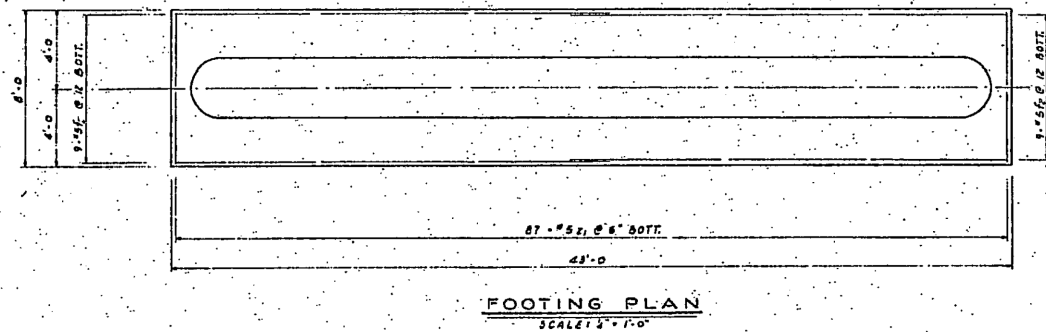
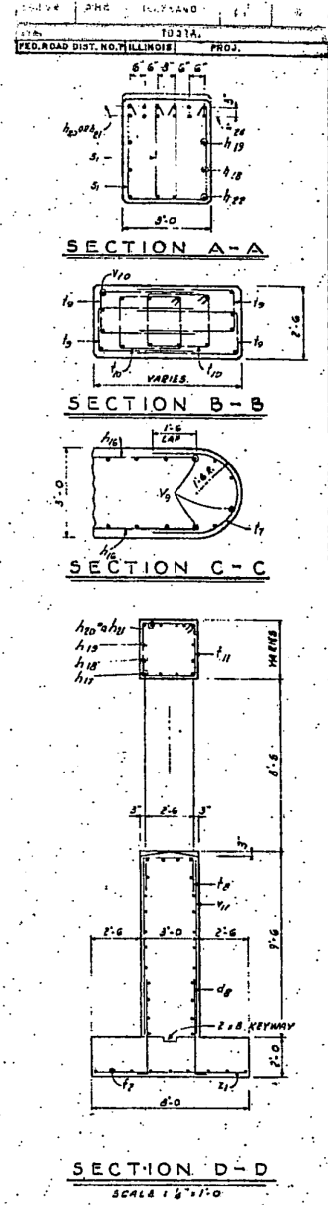
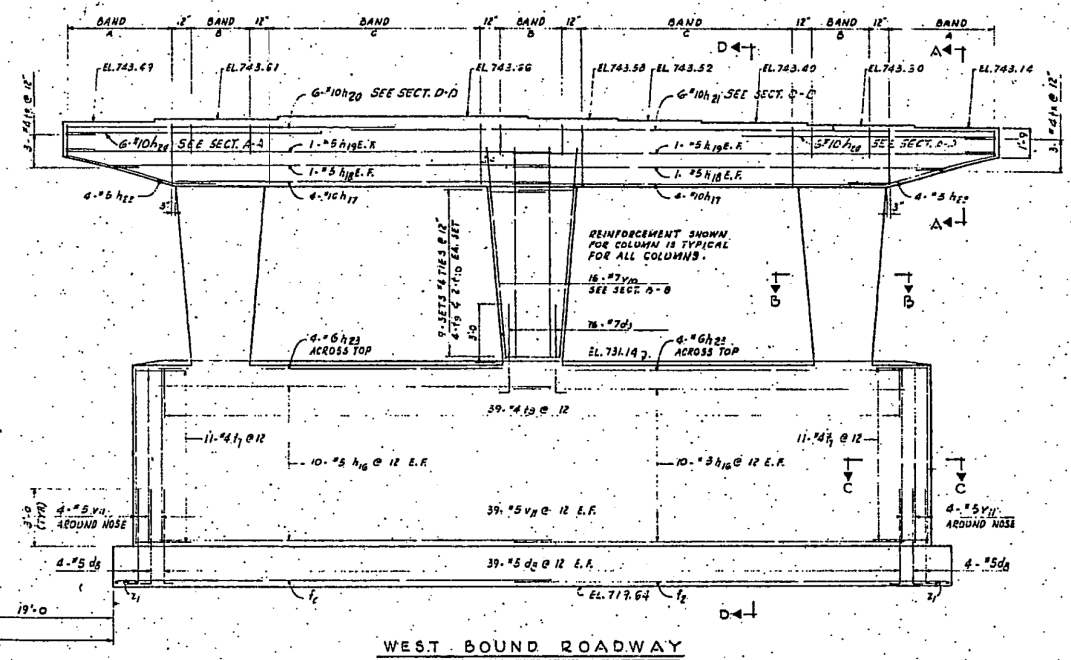
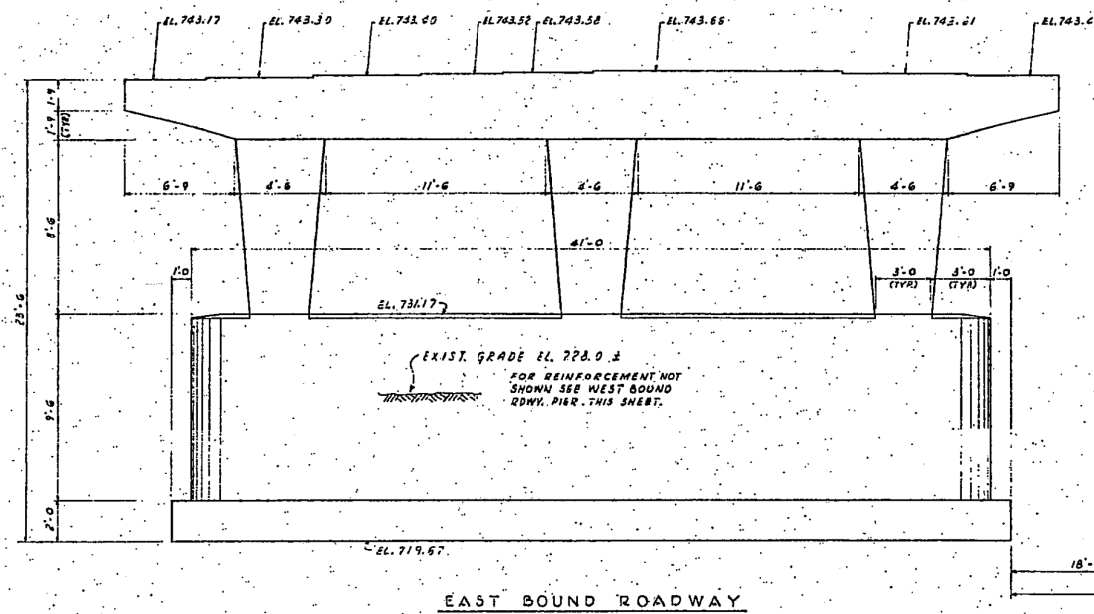
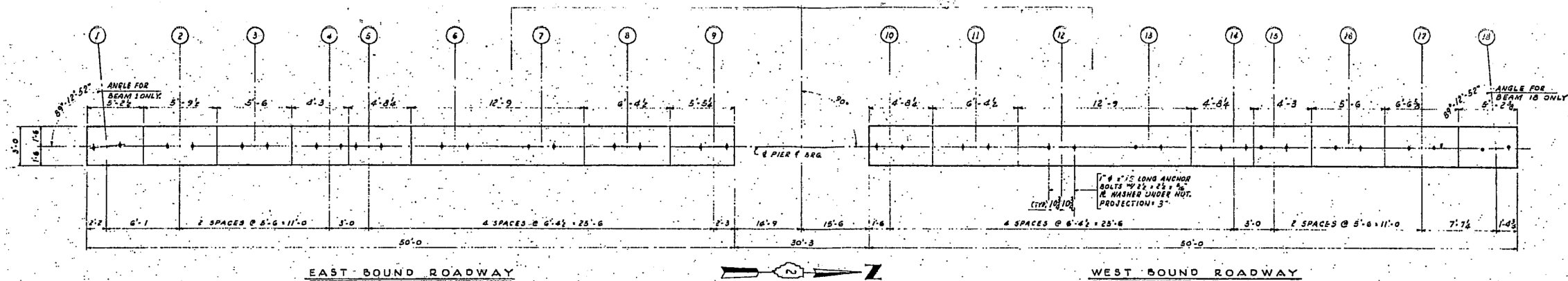
ITEM	UNIT	TOTAL		TOTAL
		E.B. RDWK	W.B. RDWK	
CLASS "K" CONCRETE	CU. YDS.	80.9	80.9	161.8
REINFORCEMENT BARS	LBS.	10,118	10,118	20,236

**ILLINOIS DIVISION OF HIGHWAYS**  
**ROCKFORD BYPASS**  
F. A. ROUTE 194  
PROJECT SECTION 3HB  
WINNEBAGO COUNTY  
**PIER 1**

Checked By: B.S. Drawn By: G.M.G. Issued By: J.P.



# FOR INFORMATION ONLY



**TIES**

BAND	BAR
A	13 SETS 5 STRIPS @ 6"; 2-5 EA. SET
B	4-#4 @ 12"
C	22-#5 @ 6"

**QUANTITIES FOR PIER NO. 2**

ITEM	UNIT	TOTAL		TOTAL
		E. B. RDWY.	W. B. RDWY.	
CLASS "X" CONCRETE	CU. YDS.	96.6	96.6	193.2
REINFORCEMENT BARS	LBS.	10,338	10,338	20676

**NOTES:**  
 FOR GENERAL NOTES SEE SHEET 2.  
 FOR PIER LOCATION SEE GENERAL PLAN SHEET 4.  
 FOR REINFORCEMENT SCHEDULE SEE SHEET 17.  
 ELEVATIONS ON PIER CAPS ARE GIVEN TO TOP OF CONCRETE.  
 ALLOWABLE SOIL BEARING VALUE = 4500 P.S.F.

**ILLINOIS DIVISION OF HIGHWAYS-  
 ROCKFORD BYPASS**

**F. A. ROUTE 194**

**PROJECT SECTION 3HB**

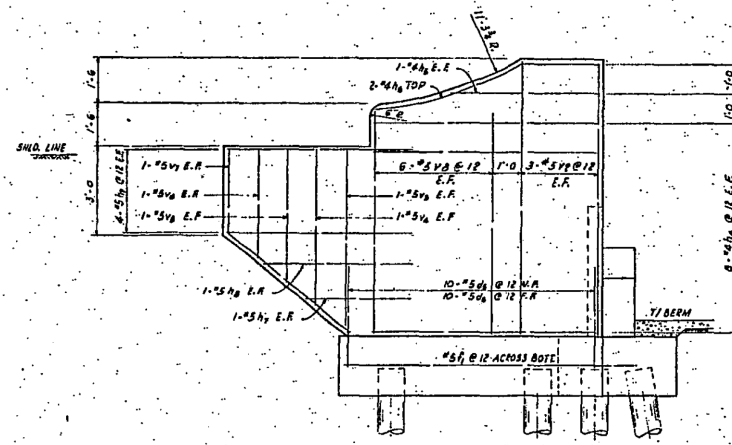
**WINNEBAGO COUNTY**

**PIER 2**

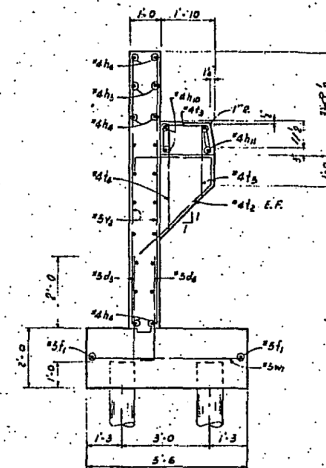
Designed By: G.S. Drawn By: W.M.S. Checked By: R.C.C.

# FOR INFORMATION ONLY

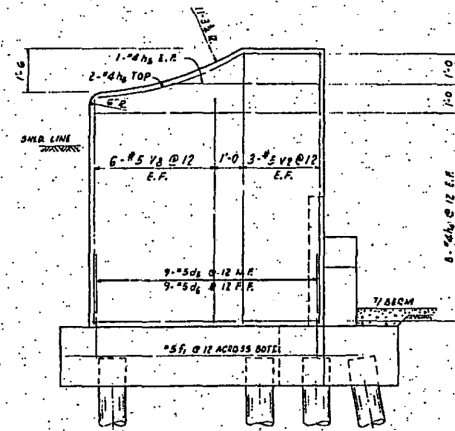
ILLINOIS ROAD DIST. NO. ILLINOIS PROJ.



ELEVATION C-C  
SCALE: 1/4" = 1'-0"  
SHT. 7 OF 8



SECTION B-B  
SCALE: 1/4" = 1'-0"  
SHT. 7 OF 8



ELEVATION D-D  
SCALE: 1/4" = 1'-0"  
SHT. 7 OF 8

**PILE DATA**

30 TON CONCRETE PILES	ESTIMATED LENGTH -	15'
	NUMBER REQUIRED -	16
(INCLUDING 2 TEST PILES)		
20 TON CROSSED PILES	ESTIMATED LENGTH -	15'
	NUMBER REQUIRED -	12
(EACH SHOD WITH A METAL SHOE)		

**NOTES:**  
FOR GENERAL NOTES SEE SHEET 2.  
FOR REINFORCING SCHEDULES SEE SHEET 17.  
WORK THIS DRAWING WITH SHEETS 7, 6 & 9.

**QUANTITIES FOR ABUTMENTS**

ITEM	UNIT	ABUTMENT #1		ABUTMENT #2		TOTAL
		E.B. ROW	W.B. ROW	E.B. ROW	W.B. ROW	
CLASS "A" CONCRETE	CU YDS	416	405	401	419	1639
REINFORCEMENT BARS	LBS.	4000	3630	3630	4000	15660
PRECAST CONCRETE PILES	LIN. FT.	250	275	275	250	1050
CROSSED PILES (PG. 1 TO 30)	LIN. FT.	200	200	200	200	800
TEST PILES (CONCRETE)	EA.	1			1	2
TEST PILES (TIMBER)	EA.	1			1	2
METAL SHOES	EA.	8	8	8	8	32

ILLINOIS DIVISION OF HIGHWAYS			
ROCKFORD BYPASS			
F. A. ROUTE 194			
PROJECT	SECTION 3HB		
WINNEBAGO COUNTY			
ABUTMENT SECTIONS			
Designed By:	E.S.	Drawn By:	G.W.G.
Checked By:	R.E.G.		

**KNIGHT**

Engineers & Architects

USER NAME = dsiwo  
PLOT SCALE = 1/2"  
PLOT DATE = 8/16/2018

DESIGNED -  
DRAWN -  
CHECKED -  
DATE -

REVISED -  
REVISED -  
REVISED -  
REVISED -

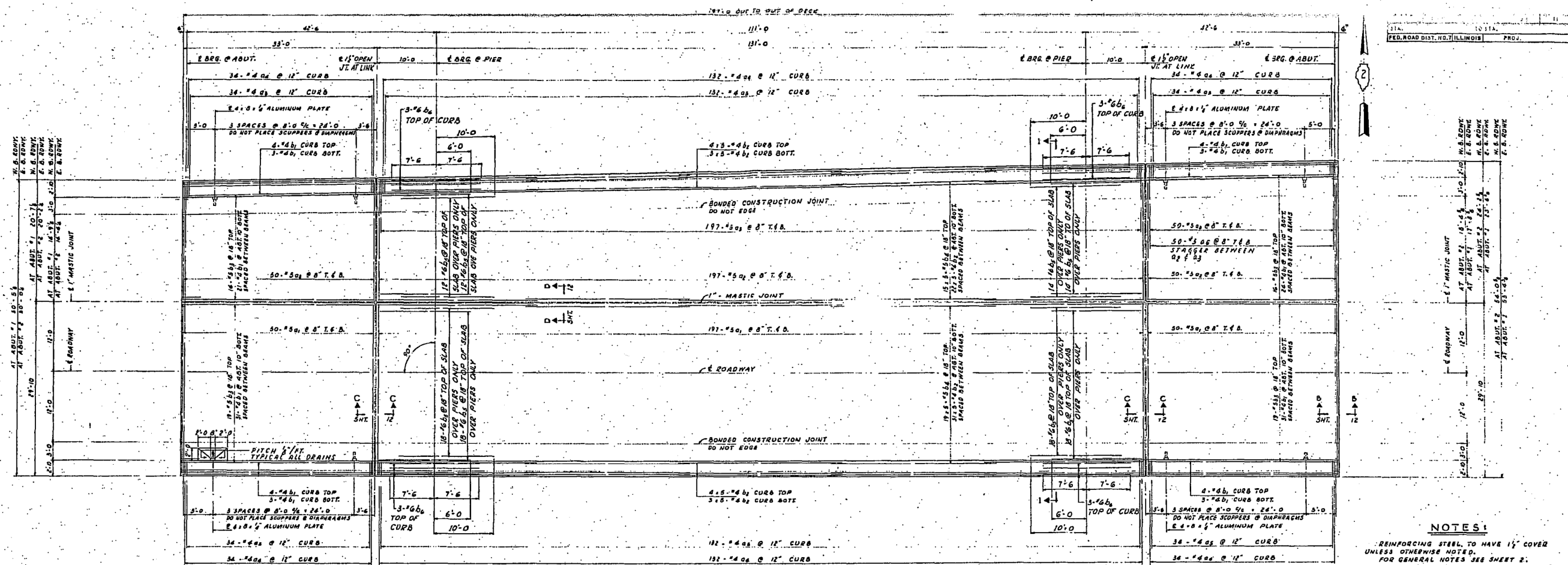
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE RECORD PLANS

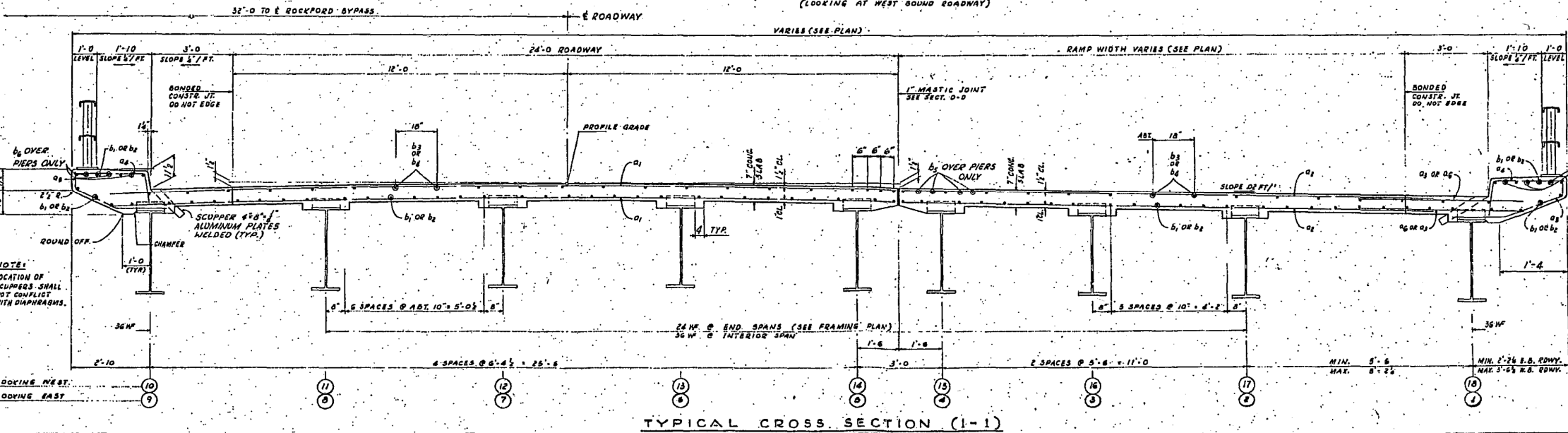
SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	3HBR	WINNEBAGO	689	482
CONTRACT NO. 64B87				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

# FOR INFORMATION ONLY



**NOTES:**  
 - REINFORCING STEEL TO HAVE 1/2" COVER UNLESS OTHERWISE NOTED.  
 - FOR GENERAL NOTES SEE SHEET 2.  
 - FOR REINFORCING DETAILS SEE SCHEDULE, SHEET 17.  
 - WORK THIS DRAW. WITH SHEET 12.

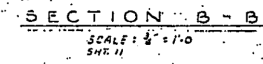
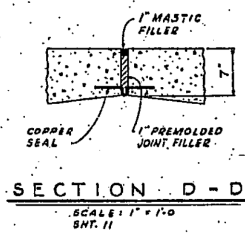
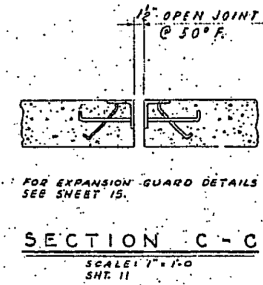


QUANTITIES FOR TWO DECKS			
ITEM	UNIT	TOTAL	TOTAL
CLASS 7 CONCRETE	CU. YDS.	275.0	550.0
REINFORCEMENT BARS	LBS.	55,270	110,540
STRUCTURAL STEEL	LBS.	534,572	1,069,144

**ILLINOIS DIVISION OF HIGHWAYS**  
**ROCKFORD BYPASS**  
**F. A. ROUTE 194**  
**PROJECT SECTION 3HB**  
**WINNEBAGO COUNTY**  
**DECK PLAN**

# FOR INFORMATION ONLY

STA.	TO STA.	PROJ.
FED. ROAD DIST. NO. ILLINOIS		



**NOTES**

FOR GENERAL NOTES SEE SHEET 2.  
WORK THIS DRAWING WITH SHEETS 1 & 18.

ILLINOIS DIVISION OF HIGHWAYS ROCKFORD BYPASS			
F. A. ROUTE 194			
PROJECT	SECTION 3HB		
WINNEBAGO COUNTY			
<b>SECTIONS THRU DECK</b>			
Designed By:	C. S.	Drawn By:	G.W.G.
Checked By:	E.R.G.		

**KNIGHT**  
Engineers & Architects

USER NAME = dsiwo	DESIGNED -	REVISED -
PLOT SCALE = 1/2	DRAWN -	REVISED -
PLOT DATE = 8/16/2018	CHECKED -	REVISED -
	DATE -	REVISED -

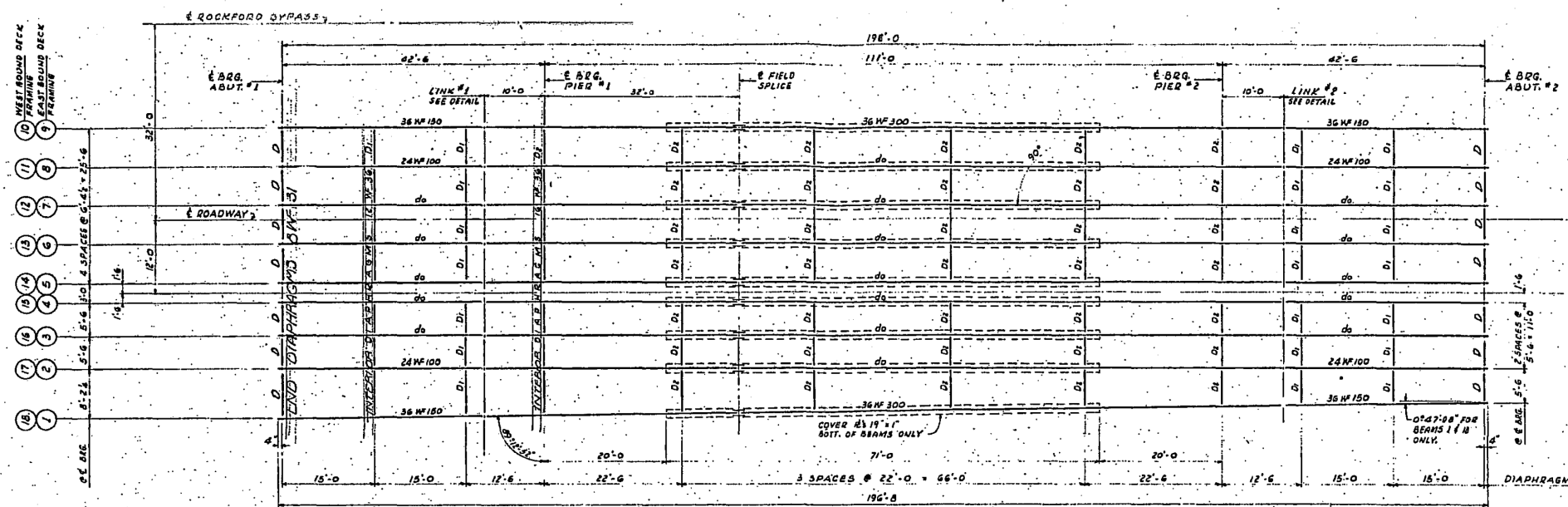
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE RECORD PLANS

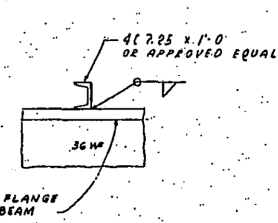
SHEET NO.	OF	SHEETS	STA.	TO STA.
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	3HB	WINNEBAGO	689	484
FED. ROAD DIST. NO. ILLINOIS			CONTRACT NO. 64B87	
FED. AID PROJECT				

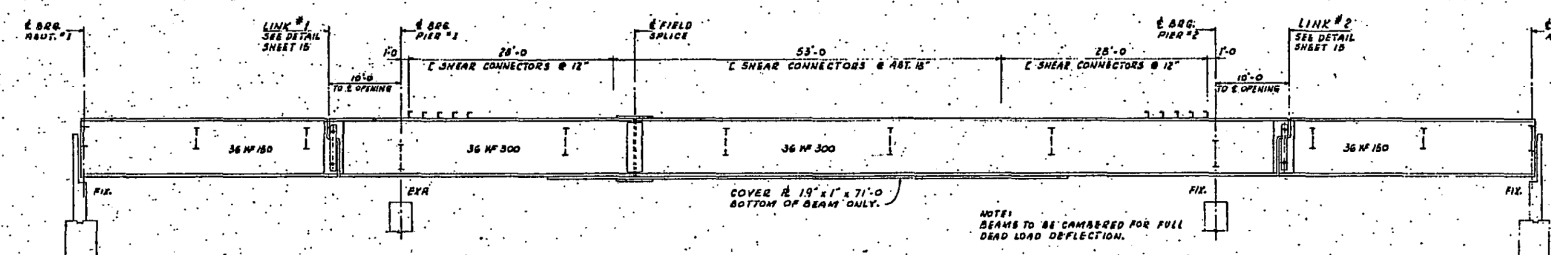
# FOR INFORMATION ONLY



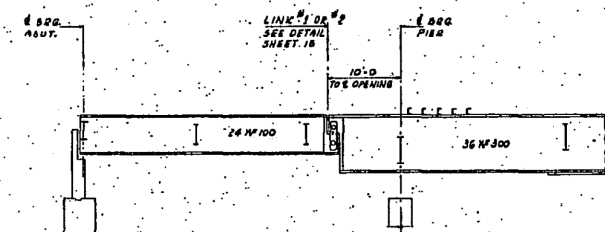
**FRAMING PLAN**  
Scale: 3/32" = 1'-0"



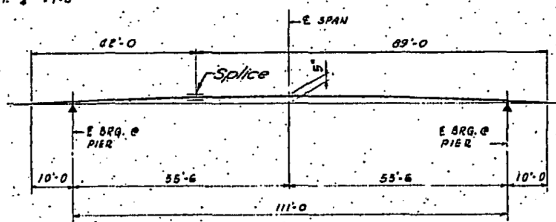
**SHEAR CONNECTOR DETAIL**



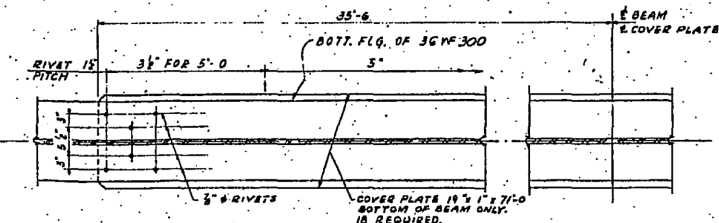
**FACIA BEAM ELEVATION**  
Scale: 3/32" = 1'-0"



**TYPICAL INTERIOR BEAM ELEVATION**  
Scale: 3/32" = 1'-0"

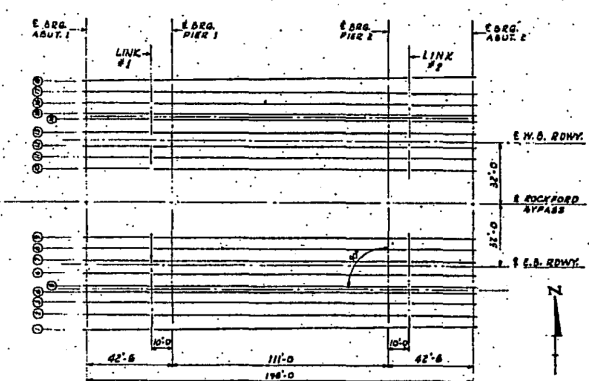


**CAMBER DIAGRAM**



**TYPICAL RIVET PITCH FOR COVER PLATES**

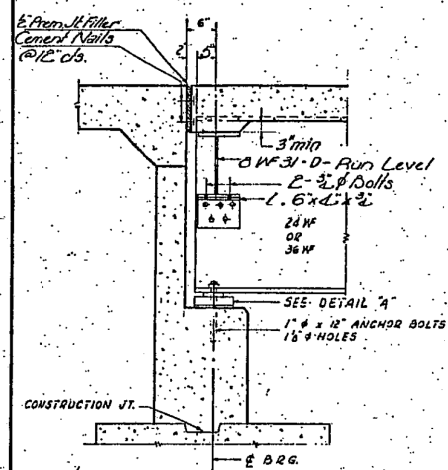
**NOTES:**  
FOR GENERAL NOTES SEE SHEET 2.  
FOR ELEVATIONS SEE SHEET 15.  
FOR DETAILS SEE SHEETS 14 & 15.



**KEY FRAMING PLAN**

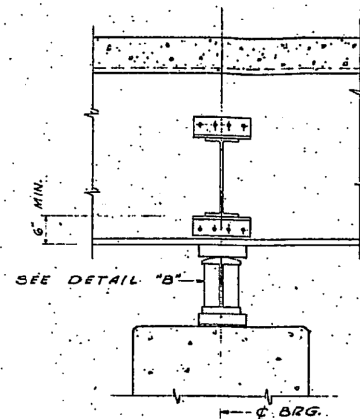
**ILLINOIS DIVISION OF HIGHWAYS**  
**ROCKFORD BYPASS**  
F. A. ROUTE 194  
PROJECT SECTION 3HB  
WINNEBAGO COUNTY  
**STEEL FRAMING PLAN**

# FOR INFORMATION ONLY

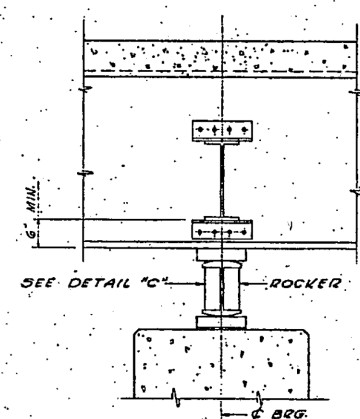


SECTION A1 ABUTMENT

PINTLE DETAIL

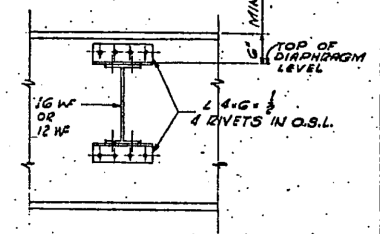


SECTION A1 FIXED PIER

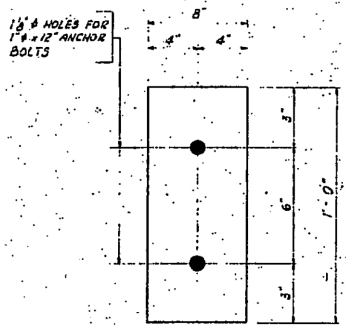


SECTION A1 EXPANSION PIER

STA.	TO STA.
FED. ROAD DIST. NO. 7 ILLINOIS	PROJ.



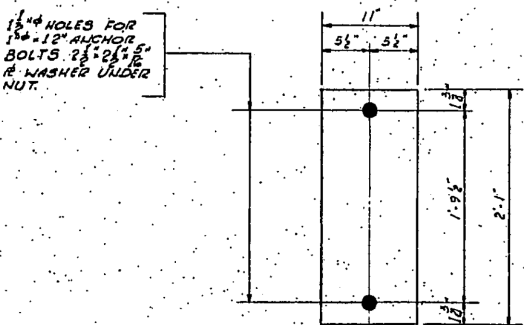
INTERIOR DIAPHRAGM



PLAN

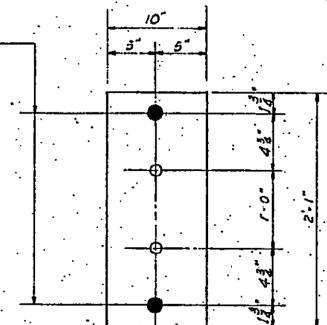
**NOTE "A"**  
 1 1/2" HOLES IN TOP 1/2 FOR 1 1/2" PINTLES  
 1 1/4" PINTLES - THREAD OR PRESS FIT IN ROCKER.

**NOTE "B"**  
 1 1/2" HOLES - 1" DEEP IN ROCKER FOR 1 1/2" PINTLES  
 1 1/4" PINTLES - THREAD OR PRESS FIT IN BOTTOM R.

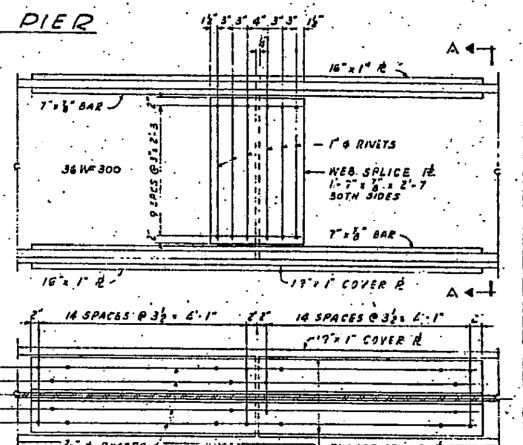


PLAN

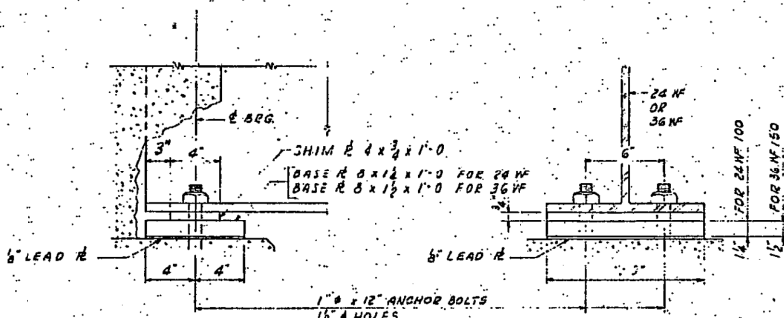
1 1/2" HOLES FOR 1 1/2" ANCHOR BOLTS 2 1/2 x 2 1/2" R WASHER UNDER NUT.



PLAN

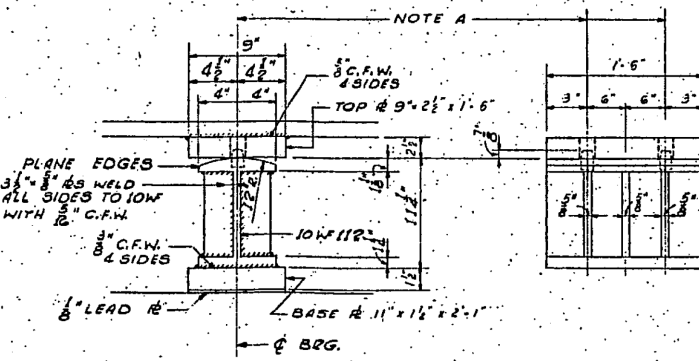


DETAIL OF SPLICE  
 SEE SECTION A-A BELOW

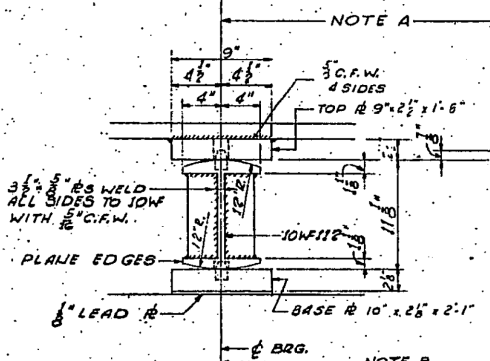


DETAIL "A"

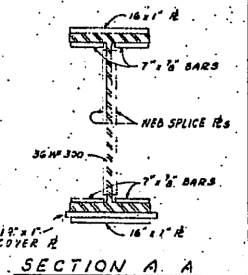
**NOTE**  
 PROVIDE 1/2 SHIM FOR BEAMS 24 & 36 UNDER BASE. ALL PIER & ABUT. LENGTH & WIDTH SAME AS BASE R.



DETAIL "B"



DETAIL "C"



SECTION A-A

ILLINOIS DIVISION OF HIGHWAYS	
ROCKFORD BYPASS	
F. A. ROUTE 194	
PROJECT	SECTION 3HB
WINNEBAGO COUNTY	
STEEL DETAILS PART I	
Designed By: C.S.	Drawn By: G.M. Checked By: ERG

**KNIGHT**

Engineers & Architects

USER NAME = dsliwo	DESIGNED -	REVISED -
PLOT SCALE = 1:2	DRAWN -	REVISED -
PLOT DATE = 8/16/2018	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

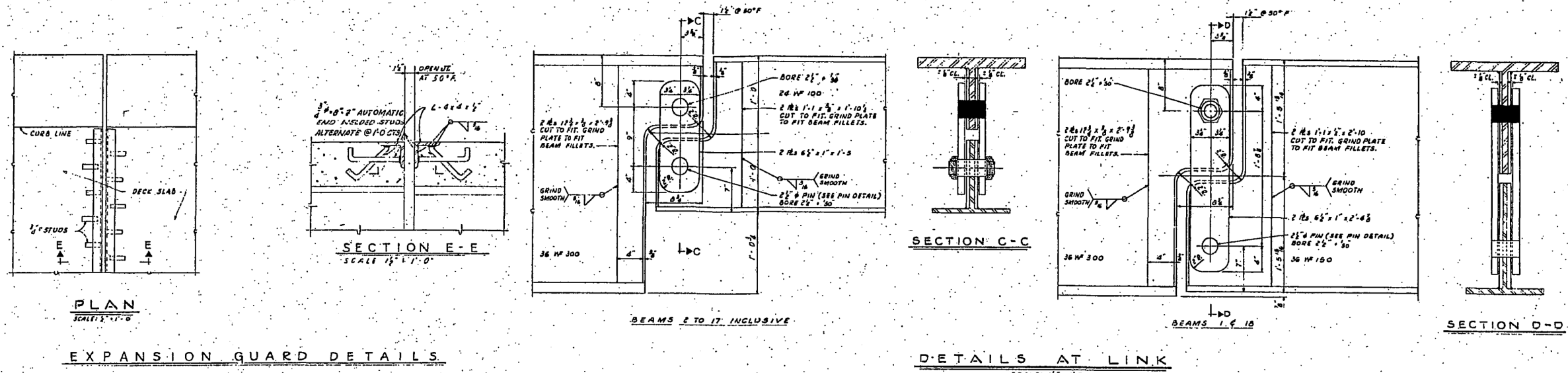
EXISTING BRIDGE RECORD PLANS

SHEET NO.	OF SHEETS	STA.	TO STA.
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	3HBR	WINNEBAGO	689	486
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT	CONTRACT NO. 64B87	

# FOR INFORMATION ONLY

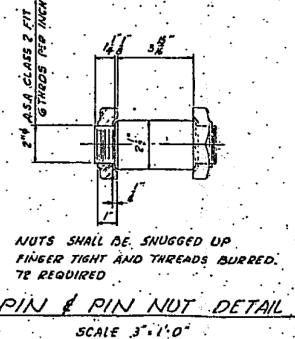
COUNTY SHEET		NO. 21 15	
ROUTE	3115	WINNEBAGO	21 15
STA.		TO STA.	
FED. ROAD DIST. NO. ILLINOIS		PROJ.	



EXPANSION GUARD DETAILS

DETAILS AT LINK

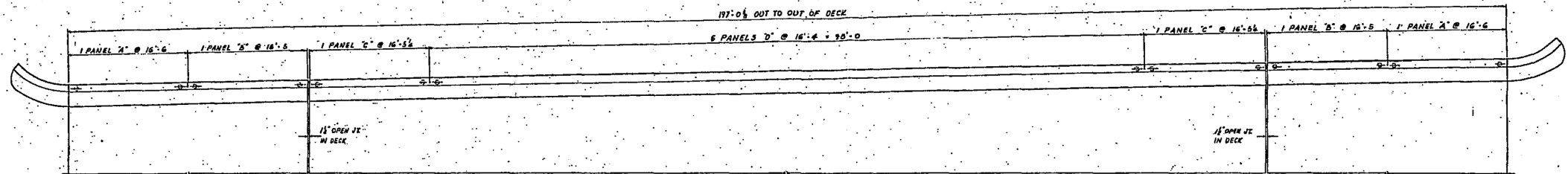
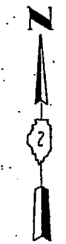
TABLE OF ELEVATIONS							
BEAM NO	LOCATION	ABUT. #1	LINK #1	PIER #1	PIER #2	LINK #2	ABUT. #2
1	TOP OF SLAB	748.90	748.78	748.73	748.09	748.02	747.77
	TOP OF STEEL	748.32	748.20	748.13	747.50	747.46	747.19
2	TOP OF SLAB	749.06	748.93	748.89	748.22	748.16	747.88
	TOP OF STEEL	748.48	748.35	748.29	747.63	747.56	747.30
3	TOP OF SLAB	749.17	749.03	748.99	748.32	748.24	747.99
	TOP OF STEEL	748.59	748.46	748.39	747.73	747.66	747.41
4	TOP OF SLAB	749.28	749.14	749.11	748.44	748.36	748.10
	TOP OF STEEL	748.70	748.56	748.51	747.85	747.77	747.52
5	TOP OF SLAB	749.35	749.20	749.17	748.50	748.41	748.16
	TOP OF STEEL	748.77	748.62	748.57	747.91	747.83	747.58
6	TOP OF SLAB	749.43	749.30	749.26	748.58	748.51	748.26
	TOP OF STEEL	748.85	748.72	748.65	747.99	747.91	747.66
7	TOP OF SLAB	749.44	749.31	749.26	748.59	748.52	748.26
	TOP OF STEEL	748.86	748.73	748.66	748.00	747.94	747.67
8	TOP OF SLAB	749.37	749.23	749.20	748.53	748.44	748.19
	TOP OF STEEL	748.79	748.65	748.60	747.94	747.86	747.61
9	TOP OF SLAB	749.23	749.11	749.06	748.41	748.32	748.07
	TOP OF STEEL	748.67	748.53	748.48	747.82	747.74	747.49
10	TOP OF SLAB	749.20	749.11	749.06	748.41	748.32	748.07
	TOP OF STEEL	748.67	748.53	748.48	747.82	747.74	747.49
11	TOP OF SLAB	749.37	749.23	749.20	748.53	748.44	748.19
	TOP OF STEEL	748.79	748.65	748.60	747.94	747.86	747.61
12	TOP OF SLAB	749.44	749.31	749.26	748.59	748.52	748.26
	TOP OF STEEL	748.86	748.73	748.66	748.00	747.94	747.67
13	TOP OF SLAB	749.43	749.30	749.25	748.58	748.51	748.26
	TOP OF STEEL	748.85	748.72	748.65	747.99	747.91	747.66
14	TOP OF SLAB	749.35	749.20	749.17	748.50	748.41	748.16
	TOP OF STEEL	748.77	748.62	748.57	747.91	747.83	747.58
15	TOP OF SLAB	749.20	749.14	749.11	748.44	748.36	748.10
	TOP OF STEEL	748.70	748.56	748.51	747.85	747.77	747.52
16	TOP OF SLAB	749.17	749.03	748.99	748.32	748.24	747.99
	TOP OF STEEL	748.59	748.46	748.39	747.73	747.66	747.41
17	TOP OF SLAB	749.06	748.93	748.89	748.22	748.14	747.88
	TOP OF STEEL	748.48	748.35	748.29	747.63	747.56	747.30
18	TOP OF SLAB	748.95	748.81	748.76	748.09	748.01	747.76
	TOP OF STEEL	748.37	748.23	748.18	747.52	747.44	747.19



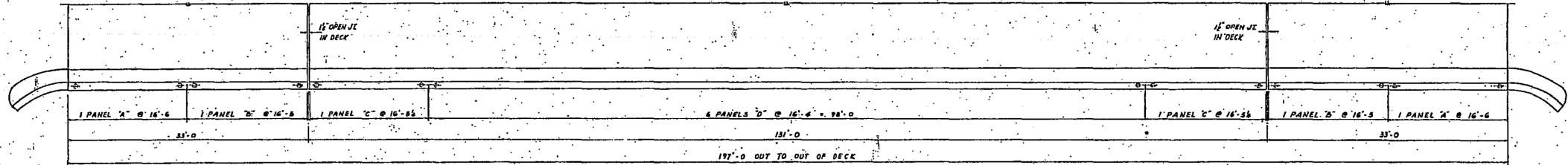
ILLINOIS DIVISION OF HIGHWAYS  
 ROCKFORD BYPASS  
 F. A. ROUTE 194  
 PROJECT SECTION 3HBR  
 WINNEBAGO COUNTY  
**STEEL DETAILS PART 2**

# FOR INFORMATION ONLY

EA 194	3HB	WINNEBAGO	21	16
31A		TO STA.		
FED. ROAD DIST. NO. 7 ILLINOIS		PROJ.		

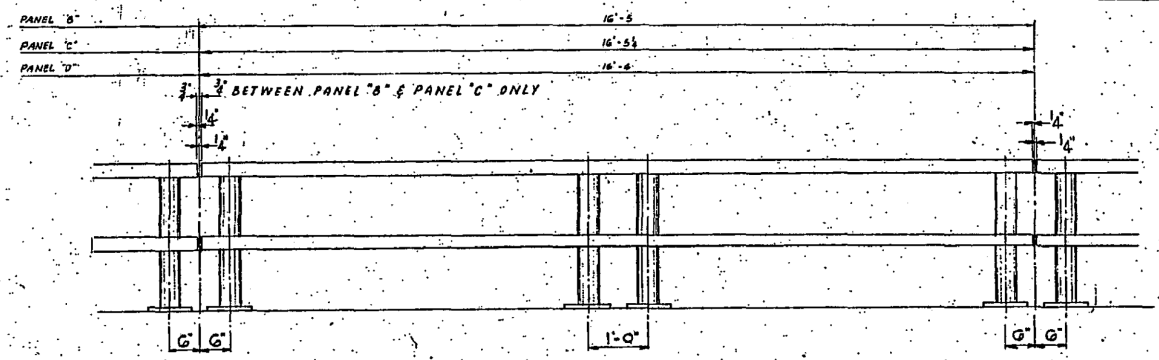


**PLAN**  
NORTH RAIL - N. B. ROWY.  
SOUTH RAIL - E. B. ROWY.

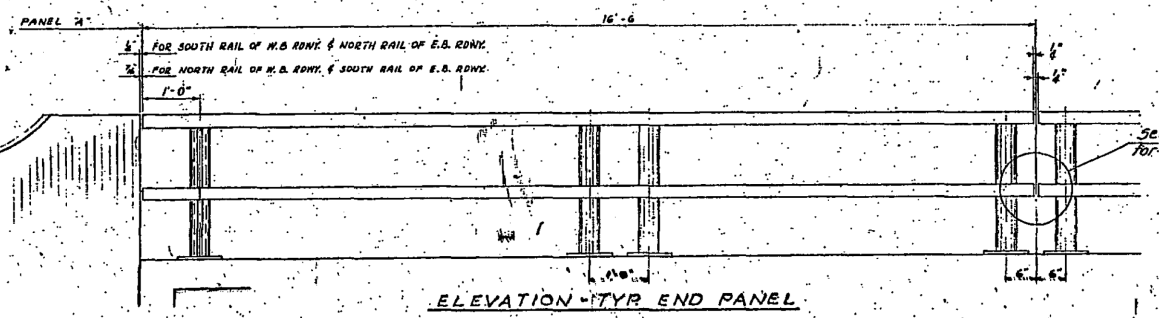


**PLAN**  
SOUTH RAIL - N. B. ROWY.  
NORTH RAIL - E. B. ROWY.

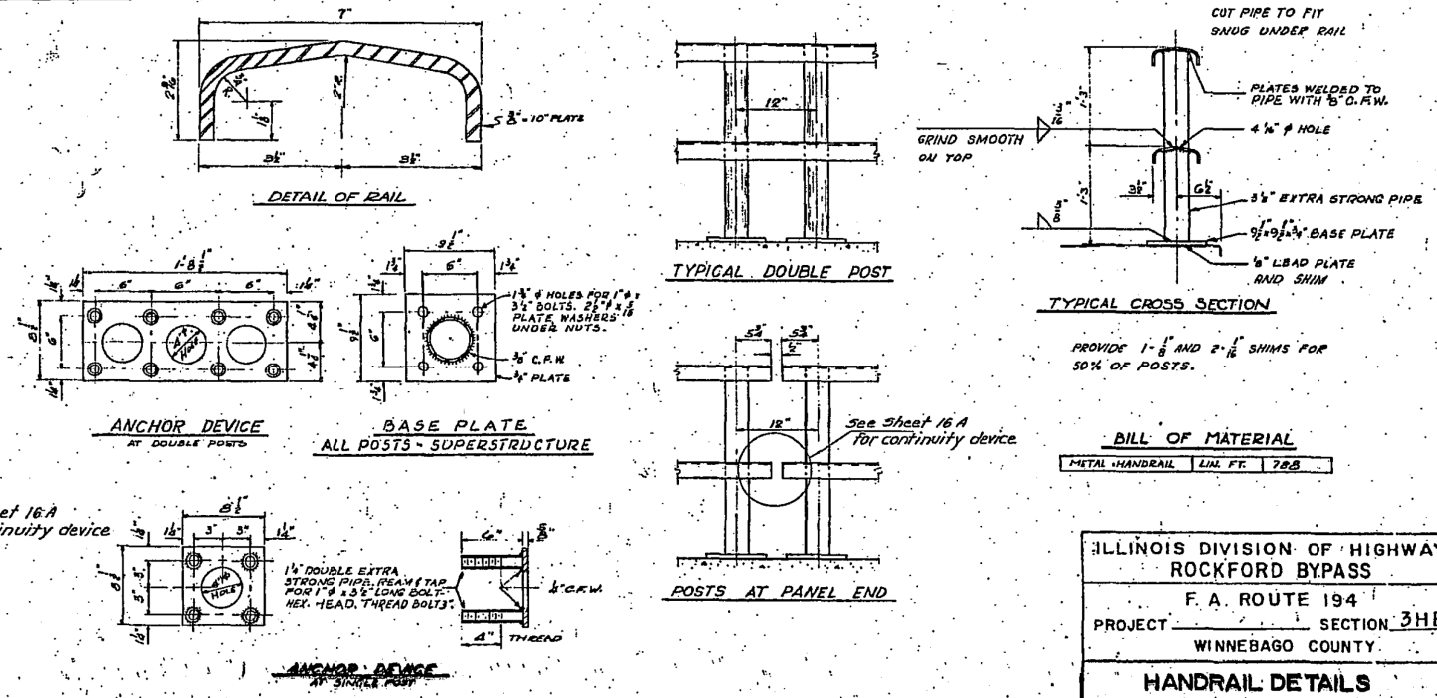
**NOTES:**  
FOR GENERAL NOTES SEE SHEET 2.  
WORK THIS DRAWING WITH SHEET 11.



**ELEVATION - TYP. PANEL**



**ELEVATION - TYP. END PANEL**



**BILL OF MATERIAL**  
METAL HANDRAIL LAL FT. 708

ILLINOIS DIVISION OF HIGHWAYS			
ROCKFORD BYPASS			
F. A. ROUTE 194			
PROJECT	SECTION 3HB		
WINNEBAGO COUNTY			
<b>HANDRAIL DETAILS</b>			
DESIGNED BY	DRAWN BY	CHECKED BY	

**KNIGHT**  
Engineers & Architects

USER NAME = dsiwo	DESIGNED -	REVISED -
PLOT SCALE = 1:2	DRAWN -	REVISED -
PLOT DATE = 8/16/2018	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE RECORD PLANS

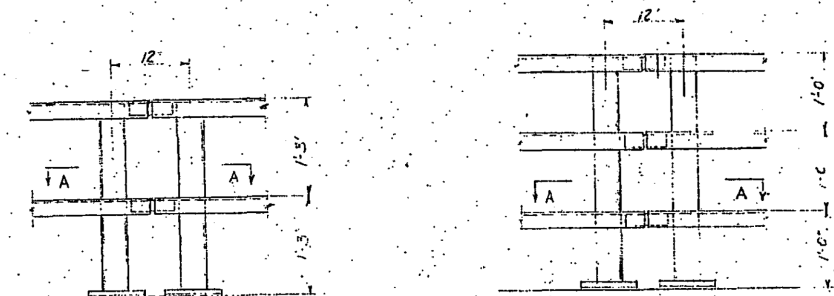
SHEET NO.	OF SHEETS	STA.	TO STA.
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	3HBR	WINNEBAGO	689	488
CONTRACT NO. 64B87				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

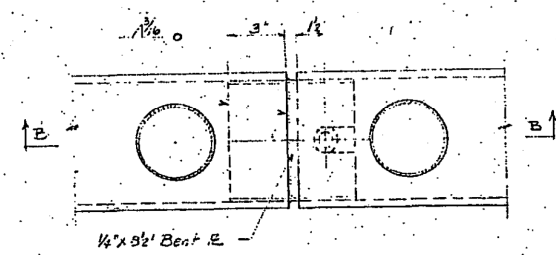


# FOR INFORMATION ONLY

PA 194, 3/18 Winnebago 21 16A

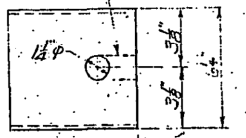


TYPICAL ELEVATION  
OF PANEL JOINTS

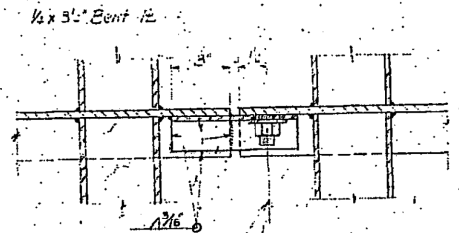


SECTION A-A

Use 1 1/2" punched hole at all panel joints. Use open slot at all expansion joints.

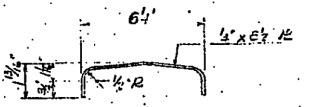


PLAN



SECTION B-B

3/8" 1 1/2" GRANULAR OR SOLID FILL FILLED STUD TREADED ALL LENGTH AUTOMATICALLY END WELDS OR 3/8" x 1/2" FULLY TREADED STUD WELDS WITH 1/2" CFW. PROVIDE WASHER AND LOCKNUT



END VIEW

DETAIL 1/2 BENT PL.

EXAMINED Nov. 10, 1959  
PASSED  
APPROVED

CONNECTION DETAILS  
FOR BENT PLATE  
RAIL PANELS

Rev 11-30-59

**KNIGHT**  
Engineers & Architects

USER NAME = dslwo	DESIGNED -	REVISED -
PLOT SCALE = 1:2	DRAWN -	REVISED -
PLOT DATE = 8/16/2018	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE RECORD PLANS

SHEET NO.	OF	SHEETS	STA.	TO	STA.
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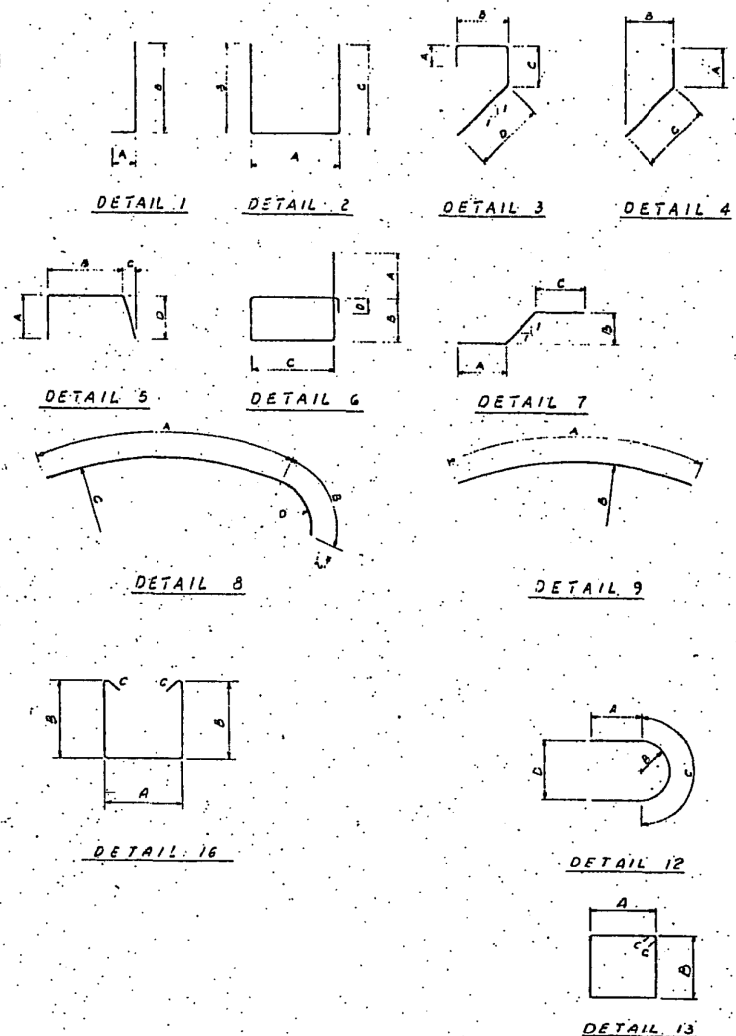
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	3HBR	WINNEBAGO	689	489
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 64B87	

# FOR INFORMATION ONLY

## B A R S C H E D U L E

SEE NOTE "A"

DIMENSIONS					DIMENSIONS					DIMENSIONS				
BAR NO.	SIZE	LENGTH	DETAIL		BAR NO.	SIZE	LENGTH	DETAIL		BAR NO.	SIZE	LENGTH	DETAIL	
ABUT. #1 (E.B. RDWY.) SEE NOTE "B"					ABUT. #2 (E.B. RDWY.) SEE NOTE "C"					DECK (SEE NOTE "A")				
A	B	C	D	E	A	B	C	D	E	A	B	C	D	E
h1	20	#5	21'-6"		h3	20	#5	21'-6"		a1	544	#5	22'-6"	
h2	20	#5	22'-3"		h4	20	#5	26'-9"		a2	544	#5	19'-3"	
h3	2	#5	21'-6"		h5	2	#5	21'-6"		a3	494	#5	6'-0"	
h4	32	#4	7'-9"	9	7'-9"	11'-3"				a4	400	#4	3'-7"	14
h5	4	#4	5'-3"	9	5'-3"	11'-3"				a5	400	#4	3'-2"	15
h6	4	#4	8'-0"	12	7'-9"	11'-3"	11'-3"	2'-6"	1'-6"	a6	100	#5	10'-3"	
h7	2	#5	3'-6"		h7	2	#5	3'-6"		b1	135	#4	32'-6"	
h8	2	#5	5'-0"		h8	2	#5	5'-0"		b2	335	#4	27'-6"	
h9	2	#5	6'-6"		h9	2	#5	6'-6"		b3	68	#5	32'-6"	
h10	4	#4	7'-9"	9	7'-9"	10'-11"				b4	170	#5	27'-6"	
h11	4	#4	10'-3"	8	7'-6"	2'-9"	12'-5"	1'-8"		b5	124	#5	16'-0"	
h12	2	#5	5'-9"		h15	2	#5	4'-9"		b6	12	#5	15'-0"	
v1	106	#5	4'-0"		v1	80	#5	4'-0"						
v2	12	#5	9'-0"		v2	12	#5	9'-0"						
v3	2	#5	6'-0"		v3	2	#5	6'-0"						
v4	2	#5	5'-3"		v4	2	#5	5'-3"						
v5	2	#5	4'-6"		v5	2	#5	4'-6"						
v6	2	#5	3'-9"		v6	2	#5	3'-9"						
v7	2	#5	2'-0"	4	2'-9"	4'-6"	5'-3"							
v8	24	#5	7'-6"		v8	24	#5	7'-6"						
d1	15	#5	3'-3"		d1	13	#5	3'-3"						
d2	65	#5	3'-0"	1	6	2'-6"				d2	61	#5	3'-0"	1
d3	10	#5	5'-9"	1	3	5'-6"				d3	10	#5	5'-9"	1
d4	20	#5	4'-3"		d4	20	#5	4'-3"		d4	20	#5	4'-3"	
d5	19	#5	3'-0"		d5	19	#5	3'-0"		d5	19	#5	3'-0"	
d6	19	#5	3'-6"	1	6	3'-0"				d6	19	#5	3'-6"	1
d7	40	#5	4'-3"		d7	38	#5	4'-3"		d7	38	#5	4'-3"	
i1	57	#4	12'-0"	13	3'-9"	1'-9"	6			i1	53	#4	12'-0"	13
i2	2	#4	6'-9"	3	6	2'-6"	9	3'-0"		i2	2	#4	6'-9"	3
i3	20	#4	3'-0"	3	9	1'-5"	1			i3	20	#4	3'-0"	3
i4	4	#4	7'-0"	2	6	3'-3"	3'-3"			i4	4	#4	7'-0"	2
i5	4	#4	5'-0"	2	6	2'-3"	2'-3"			i5	4	#4	5'-0"	2
i6	53	#4	2'-9"	2	1'-3"	1'-0"	1'-0"			i6	49	#4	2'-9"	2
f1	12	#5	10'-0"		f1	12	#5	10'-0"						
v11	18	#5	5'-3"		v11	18	#5	5'-3"						
PIER #1 (SEE NOTE "A")					PIER #2 (SEE NOTE "A")									
h16	24	#5	19'-9"		h16	40	#5	19'-9"						
h17	2	#10	19'-6"		h17	2	#10	19'-6"						
h18	4	#5	21'-9"		h18	4	#5	21'-9"						
h19	4	#5	15'-9"		h19	4	#5	15'-9"						
h20	6	#10	18'-6"		h20	6	#10	18'-6"						
h21	6	#10	34'-6"		h21	6	#10	34'-6"						
h22	2	#5	8'-6"	4	2'-0"	1'-9"	6'-6"			h22	2	#5	8'-6"	4
h23	10	#9	19'-9"		h23	8	#6	19'-9"						
h24	12	#10	13'-0"		h24	12	#10	13'-0"						
v9	86	#5	5'-6"		v9	86	#5	5'-6"						
v10	48	#7	11'-6"		v10	48	#7	11'-6"						
d8	86	#5	5'-3"	1	6	4'-9"				d8	86	#5	5'-3"	1
d9	42	#7	5'-6"	1	6	5'-0"				d9	42	#7	5'-6"	1
i7	14	#4	7'-0"	12	1'-6"	1'-4"	4'-0"	2'-9"		i7	22	#4	7'-0"	12
i8	57	#4	5'-9"	2	2'-9"	1'-6"	1'-6"			i8	57	#4	5'-9"	2
i9	108	#4	7'-0"	2	1'-6"	2'-9"	2'-9"			i9	108	#4	7'-0"	2
i10	54	#4	9'-9"	13	2'-3"	2'-3"	4'-6"			i10	54	#4	9'-9"	13
i11	46	#5	12'-9"	13	2'-9"	3'-3"	4'-6"			i11	46	#5	12'-9"	13
s1	52	#5	VARIABLE	16	2'-9"	VARIABLE	4'-6"			s1	52	#5	VARIABLE	16
f2	18	#5	22'-3"		f2	18	#5	22'-3"						
e1	27	#5	7'-9"		e1	27	#5	7'-9"						



NOTES  
 A - BAR SCHEDULE FOR THE COMPLETE STRUCTURE ONLY. FOR 2 STRUCTURES QUANTITIES MUST BE DOUBLED.  
 B - REINFORCING FOR ABUT. #1 (E.B. RDWY.)  
 C - REINFORCING FOR ABUT. #2 (E.B. RDWY.)  
 E - ABUT. #1 (E.B. RDWY.) ARE THE SAME.  
 F - REINFORCING FOR ABUT. #2 (E.B. RDWY.) ARE THE SAME.

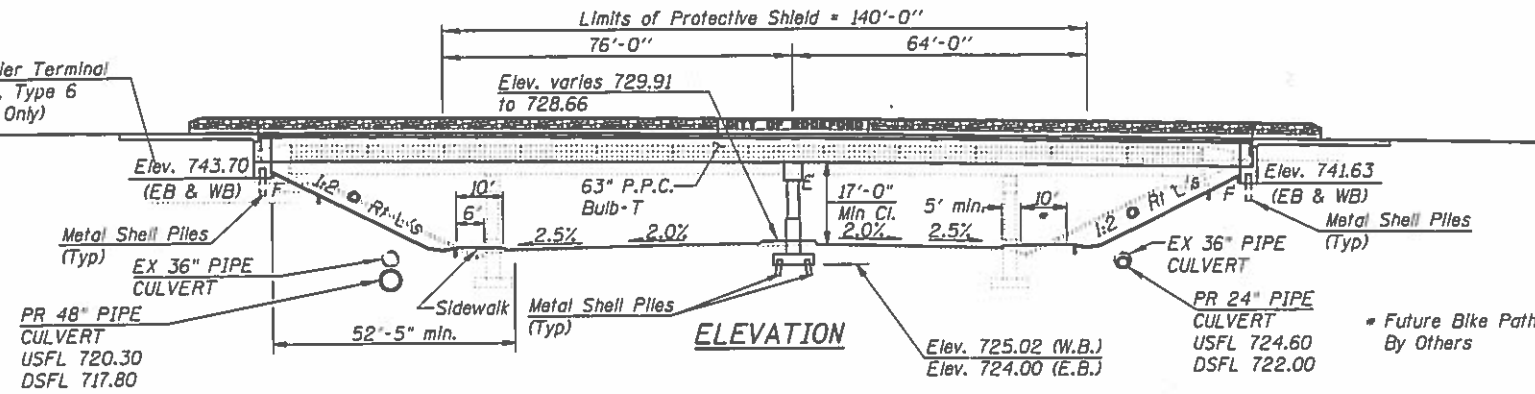
134	3HD	WINNEBAGO	21	17
STA.	TO STA.			
FED. ROAD DIST. NO. 111		ILLINOIS		
		PROJ.		

ILLINOIS DIVISION OF HIGHWAYS  
 ROCKFORD BYPASS  
 F. A. ROUTE 194  
 PROJECT SECTION 3HB  
 WINNEBAGO COUNTY  
**REINFORCING SCHEDULE**

BM - Bolt on Power Pole.  
Sta. 895+23.95, 227.18' LT.  
E.I. 727.28

**EXISTING STRUCTURE:**  
S.N. 101-0055 (EB) & 0056 (WB) built in 1961 as F.A.P. 194, Section 3HB.  
Each dual structure consists of a three span reinforced concrete deck on wide flange steel beams supported by pile bent spill thru abutments and multi-column piers. 198'-0" back-to-back of abutments. EB out-to-out width varies 50'-0 1/4" to 53'-4 3/8". WB out-to-out width varies 50'-4 1/4" to 54'-0 3/8". Existing structures to be removed and replaced Traffic to be maintained with use of cross-overs.  
No Salvage.

Traffic Barrier Terminal  
STD. 631031, Type 6  
(Appr. Ends Only)



STATION 894+23.39  
BUILT 20XX BY  
STATE OF ILLINOIS  
F.A.P. RT. 301 SEC. 3HBR  
LOADING HL93  
STRUCTURE NO. 101-0186

**NAME PLATE**  
See Std. 515001

STATION 894+23.39  
BUILT 20XX BY  
STATE OF ILLINOIS  
F.A.P. RT. 301 SEC. 3HBR  
LOADING HL93  
STRUCTURE NO. 101-0187

**NAME PLATE**  
See Std. 515001

**DESIGN SPECIFICATIONS**  
2014 AASHTO LRFD Bridge Design Specifications  
7th Edition, with 2015 & 2016 Interim Revisions

**DESIGN STRESSES**  
**FIELD UNITS**

$f'_c = 3,500$  psi (Substructure)  
 $f'_c = 4,000$  psi (Superstructure)  
 $f_y = 60,000$  psi (Reinforcement)

**PRESTRESSED UNITS**

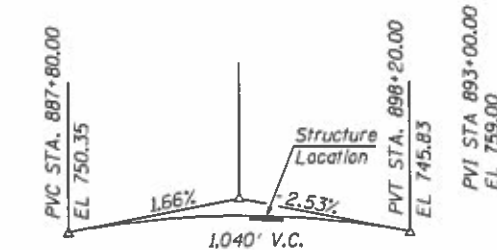
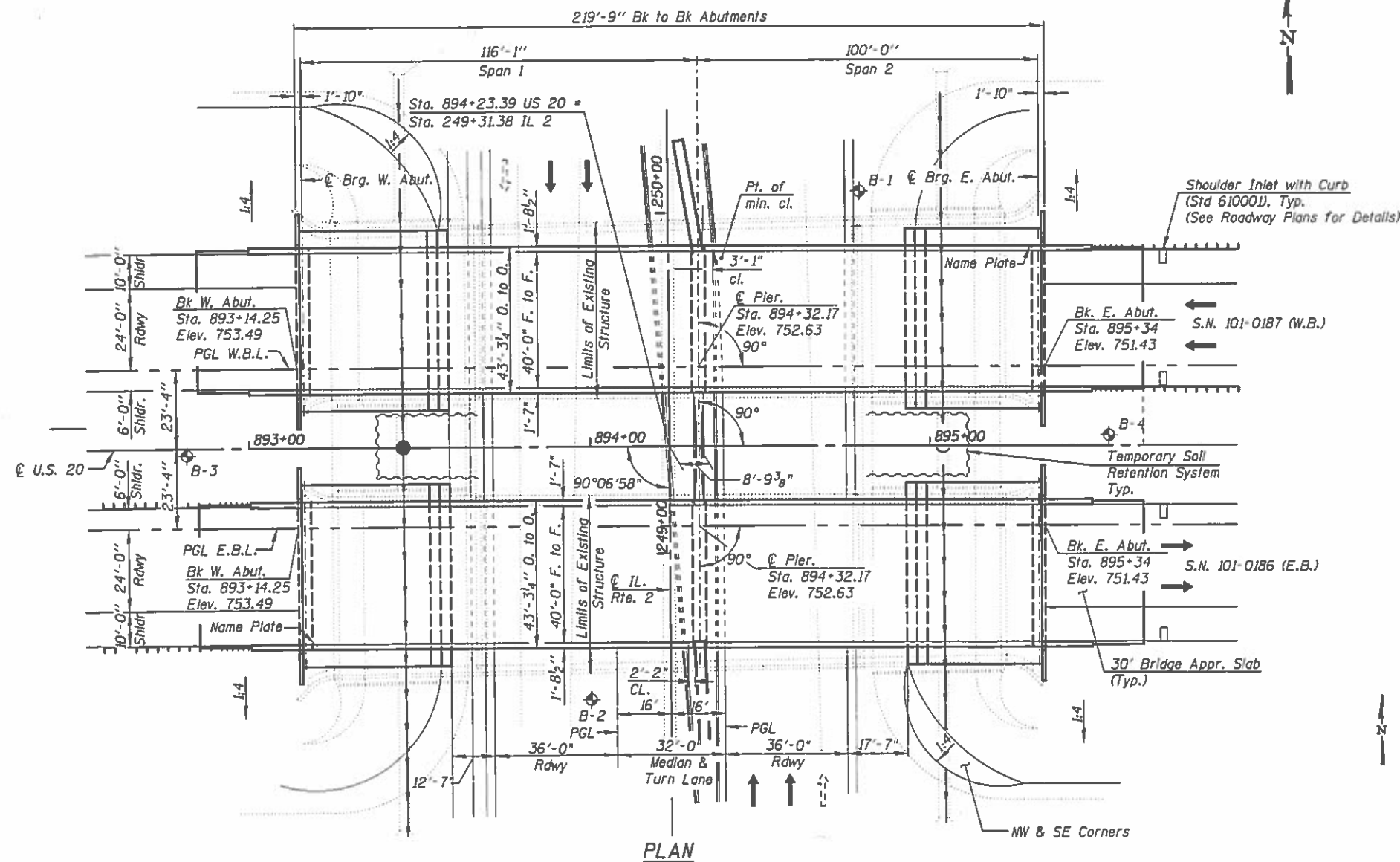
$f'_c = 7,000$   
 $f'_{ci} = 6,000$   
 $f_{pu} = 270,000$  psi (1/2" low lax strands)  
 $f_{pbt} = 201,960$  psi (1/2" low lax strands)

**LOADING HL 93**

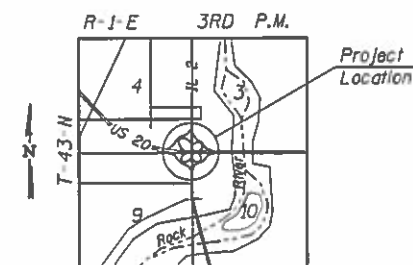
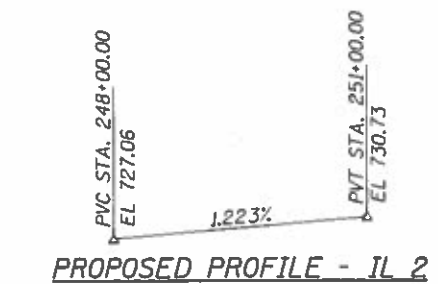
Allow 50#/#sq. ft. for future wearing surface.

**SEISMIC DATA**

Seismic Performance Zone (SPZ) = 1  
Design Spectral Acceleration at 1.0 sec. ( $S_{d1}$ ) = 0.033g  
Design Spectral Acceleration at 0.2 sec. ( $S_{d5}$ ) = 0.083g  
Soil Site Classification (S) = B



**PROPOSED PROFILE GRADE LINE EASTBOUND & WESTBOUND US 20**



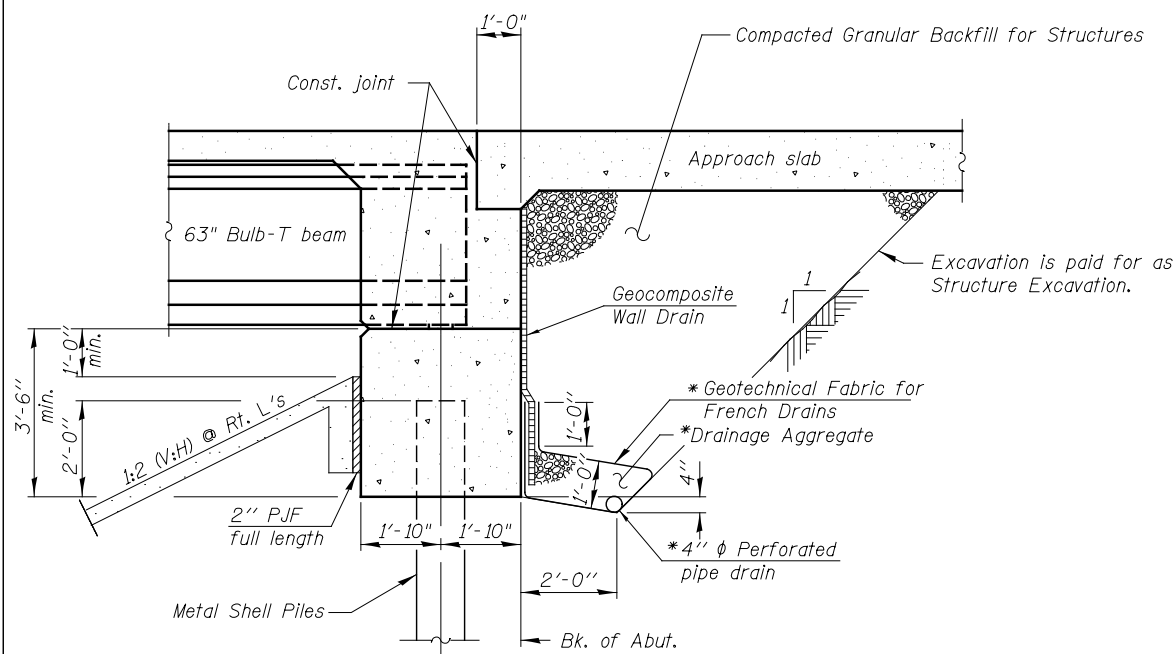
Expires 11-30-2018  
Date: 08/15/2018  
for drawings  
SA-01 thru SA-39

**APPROVED**  
For Structural Adequacy Only

Engineer of Bridges & Structures

**GENERAL PLAN & ELEVATION**  
U.S. RTE. 20 OVER IL RTE. 2  
FAP ROUTE 301-SECTION 3HBR  
WINNEBAGO COUNTY  
STA 894+23.39  
S.N. 101-0186 (EB)  
S.N. 101-0187 (WB)

<b>KNIGHT</b> Engineers & Architects	DESIGNED - FW	REVISED	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>				<b>GENERAL PLAN AND ELEVATION</b> <b>STRUCTURE NUMBER 101-0186 (EB) AND 101-0187 (WB)</b>				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	CHECKED - WPM	REVISED									301	3HBR	WINNEBAGO	689	491
SCALE - NONE	DRAWN - DC	REVISED	DRAWING NO. 5-01 OF 39 DRAWINGS				ILLINOIS FED. AID PROJECT				CONTRACT NO. 648BT				
DATE - 8/16/2018	CHECKED - WPM	REVISED									CONTRACT NO. 648BT				



**SECTION THRU INTEGRAL ABUTMENT**  
(Horiz. dim. @ Rt. L's)

\* Included in the cost of Pipe Underdrains for Structures.  
(See Special Provisions)

**Note**

All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).

**GENERAL NOTES**

Reinforcement bars designated (E) shall be epoxy coated.

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

The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.

Sloped wall shall be reinforced with welded wire fabric, 6" x 6" - W4.0 x W4.0, weighing 58 lbs. per 100 sq. ft.

The Protective Shield limits shall extend from existing pier to existing pier and a minimum of 2 ft. beyond the existing edge of deck

Concrete Sealer shall be applied to the designated areas of the piers.

Slipforming of the parapets is not allowed.

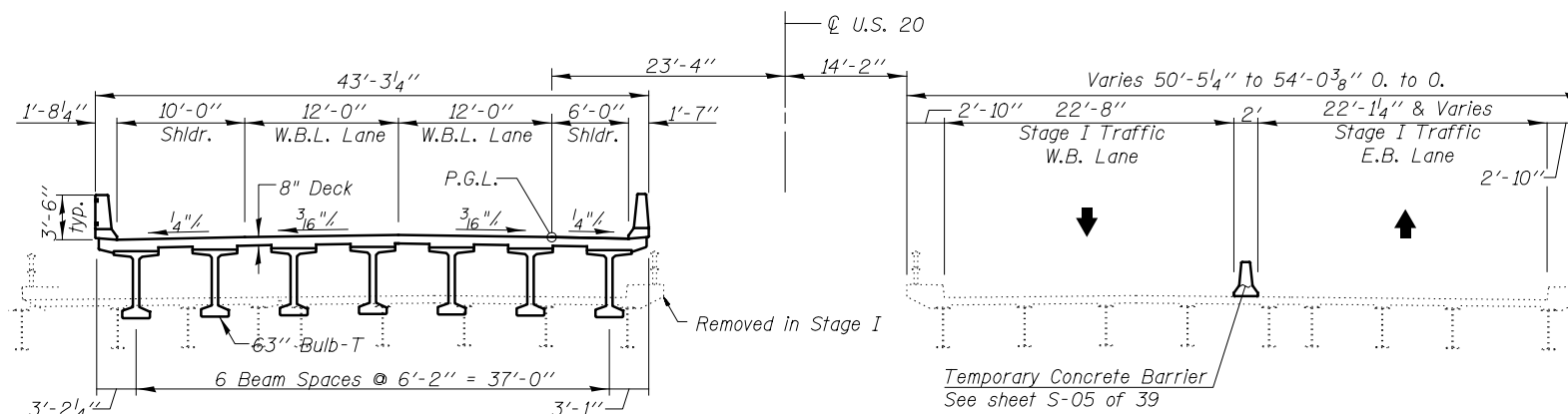
Internally Curing Concrete shall be used for the bridge deck and parapet walls of the eastbound bridge (Structure Number 101-0186). Refer to the special provision for Internally Curing Concrete with Lightweight Aggregate for Bridge Deck for details. The westbound bridge deck (Structure Number 101-0187) shall utilize a standard mix design.

**TOTAL BILL OF MATERIAL**

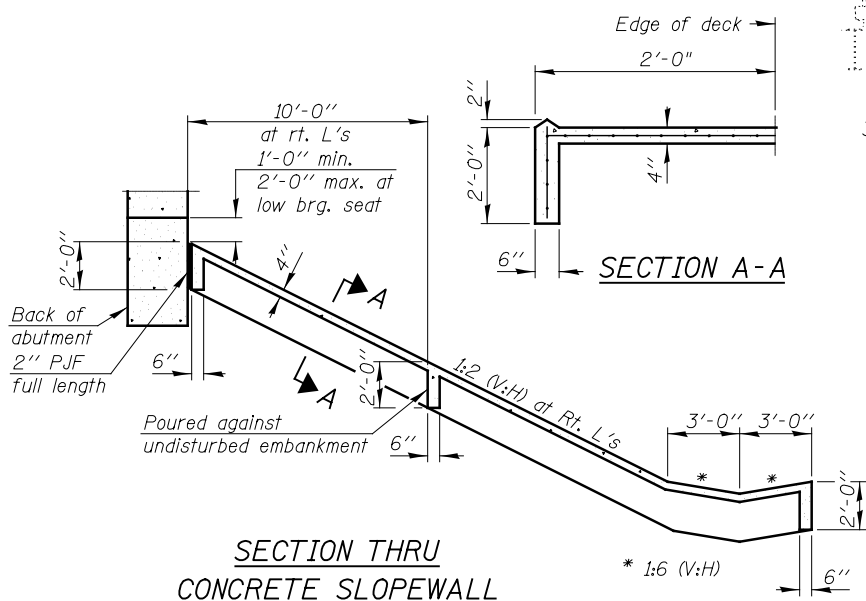
ITEM	UNIT	SUPER	SUB	TOTAL
REMOVAL OF EXISTING STRUCTURES NO. 1	EACH			1
REMOVAL OF EXISTING STRUCTURES NO. 2	EACH			1
PROTECTIVE SHIELD	SQ YD	1282		1,282
STRUCTURE EXCAVATION	CU YD		540	540
CONCRETE STRUCTURES	CU YD		348.0	348.0
CONCRETE SUPERSTRUCTURE	CU YD	830.0		830.0
BRIDGE DECK GROOVING	SQ YD	2346		2346
FORM LINER TEXTURED SURFACE	SQ FT	992		992
PROTECTIVE COAT	SQ YD	2945		2,945
CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	250.0		250.0
FURNISHING AND ERECTING PRECAST PRESTRESSED CONCRETE BULB-T BEAMS 63"	FOOT	3026		3,026
REINFORCEMENT BARS, EPOXY COATED	POUND	283260	46720	329,980
SLOPE WALL 4 INCH	SQ YD		851	851
FURNISHING METAL SHELL PILES 14"X0.250"	FOOT		1720	1,720
DRIVING PILES	FOOT		1720	1,720
TEST PILE METAL SHELLS	EACH		6	6
NAME PLATES	EACH	2		2
ELASTOMERIC BEARING ASSEMBLY, TYPE 1	EACH	28		28
ANCHOR BOLTS, 1/4"	EACH	56		56
TEMPORARY SOIL RETENTION SYSTEM	SQ FT		1675	1675
CONCRETE SEALER	SQ FT		2513	2513
GEOCOMPOSITE WALL DRAIN	SQ YD		225	225
PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT		300	300
STAINING CONCRETE STRUCTURES	SQ FT	1324		1324
GRANULAR BACKFILL FOR STRUCTURES	CU YD		556	556

**INDEX OF SHEETS**

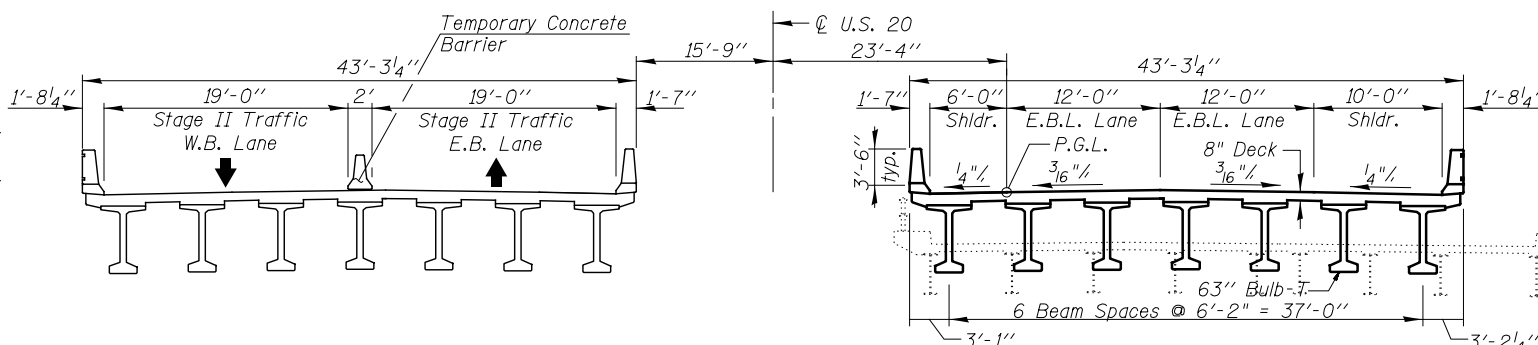
- S-01 GENERAL PLAN & ELEVATION
- S-02 GENERAL NOTES AND TOTAL BILL OF MATERIAL
- S-03 TEMPORARY SOIL RETENTION SYSTEM DETAILS
- S-04 FOOTING LAYOUT
- S-05 TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION
- S-06 TOP OF SLAB ELEVATIONS - LOCATION PLAN
- S-07 TOP OF SLAB ELEVATIONS (WB)
- S-08 TOP OF SLAB ELEVATIONS (WB)
- S-09 TOP OF SLAB ELEVATIONS (WB)
- S-10 TOP OF SLAB ELEVATIONS (WB AND EB)
- S-11 TOP OF SLAB ELEVATIONS (EB)
- S-12 TOP OF SLAB ELEVATIONS (EB)
- S-13 TOP OF SLAB ELEVATIONS (EB)
- S-14 TOP OF APPROACH SLAB ELEVATIONS (WB)
- S-15 TOP OF APPROACH SLAB ELEVATIONS (WB)
- S-16 TOP OF APPROACH SLAB ELEVATIONS (EB)
- S-17 TOP OF APPROACH SLAB ELEVATIONS (EB)
- S-18 DECK PLAN AND CROSS SECTION
- S-19 PARAPET DETAILS
- S-20 ABUTMENT AND PIER DIAPHRAGM DETAILS
- S-21 DECK MISCELLANEOUS DETAILS
- S-22 BRIDGE APPROACH SLAB DETAILS
- S-23 BRIDGE APPROACH SLAB DETAILS
- S-24 FRAMING PLAN
- S-25 63" PPC. BULB T-BEAM SPAN 1
- S-26 63" PPC. BULB T-BEAM DETAILS SPAN 1
- S-27 63" PPC BULB T-BEAM SPAN 2
- S-28 63" PPC BULB T-BEAM DETAILS SPAN 2
- S-29 ELASTOMERIC BEARING DETAILS
- S-30 WEST ABUTMENT (EB)
- S-31 EAST ABUTMENT (EB)
- S-32 WEST ABUTMENT (WB)
- S-33 EAST ABUTMENT (WB)
- S-34 PIER (EB)
- S-35 PIER (WB)
- S-36 METAL SHELL PILE DETAILS
- S-37 SOIL BORING LOGS
- S-38 SOIL BORING LOGS
- S-39 SOIL BORING LOGS



**STAGE I CONSTRUCTION**  
Looking East



**SECTION THRU CONCRETE SLOPEWALL**



**STAGE II CONSTRUCTION**  
Looking East

**KNIGHT**  
Engineers & Architects

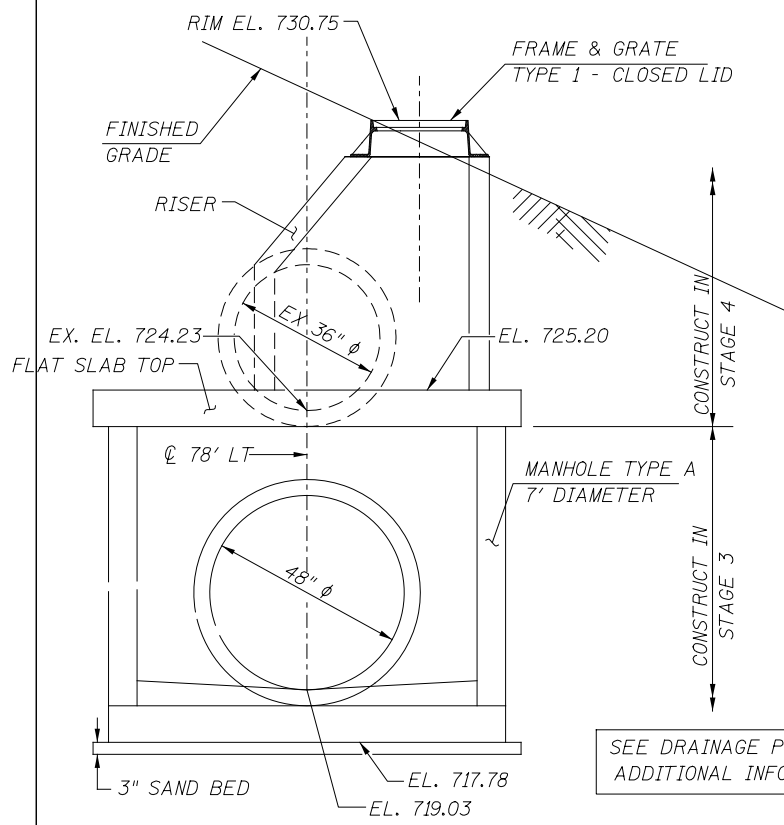
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CHECKED - WPM	REVISIONS
SCALE - NONE	REVISIONS
DATE - 9/28/2018	REVISIONS
DRAWN - DC	REVISIONS
CHECKED - WPM	REVISIONS

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

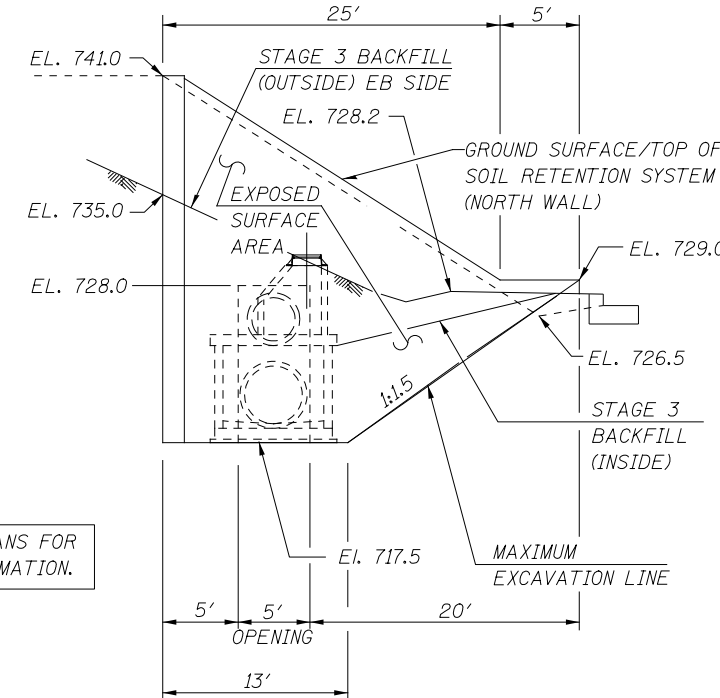
**GENERAL NOTES AND TOTAL BILL OF MATERIAL**  
**STRUCTURE NUMBER 101-0186 (EB) AND 101-0187 (WB)**

DRAWING NO. 5-02 OF 39 DRAWINGS

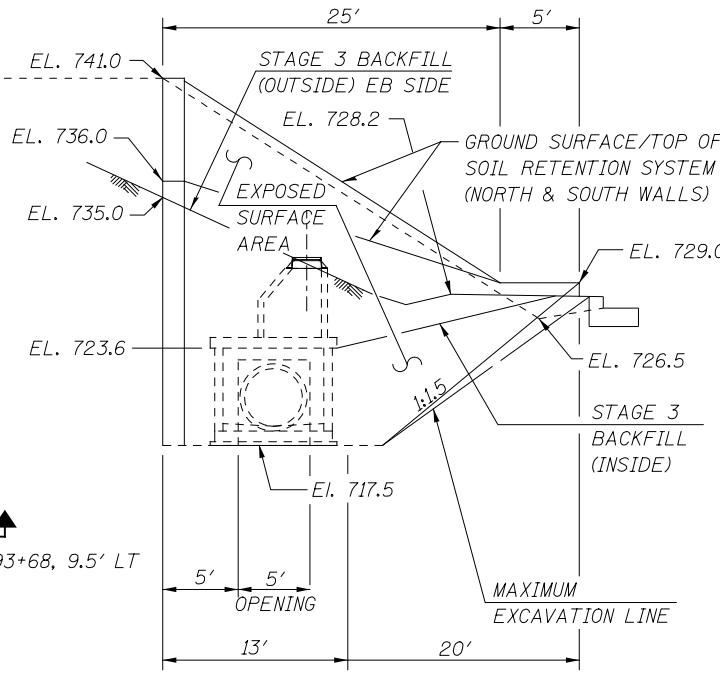
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	3HRB	WINNEBAGO	689	492
CONTRACT NO. 64B87				
ILLINOIS FED. AID PROJECT				



A cantilevered sheet piling design does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.

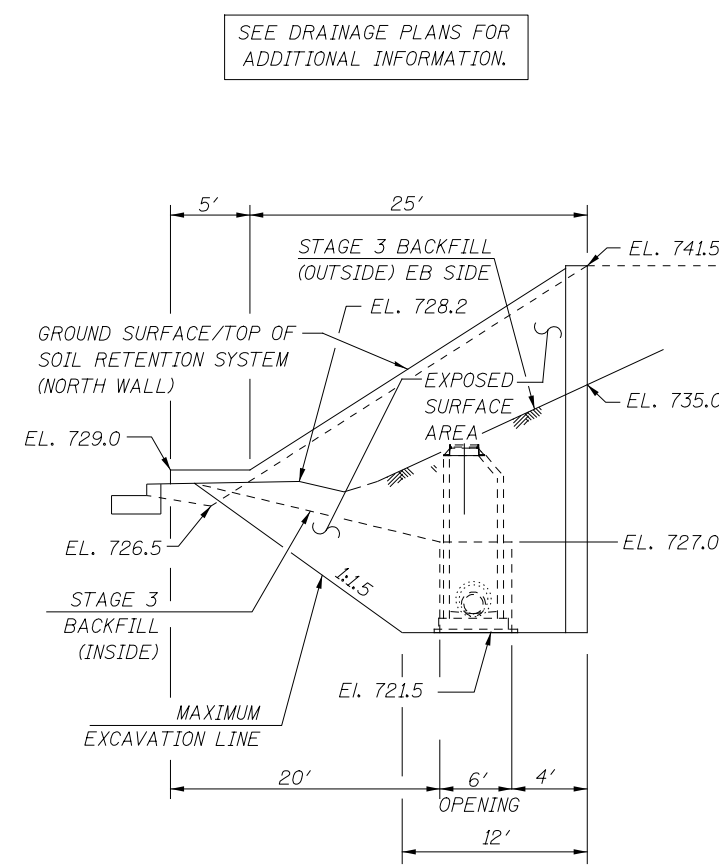


**NORTH ELEVATION VIEW B-B**  
(LOOKING NORTH)

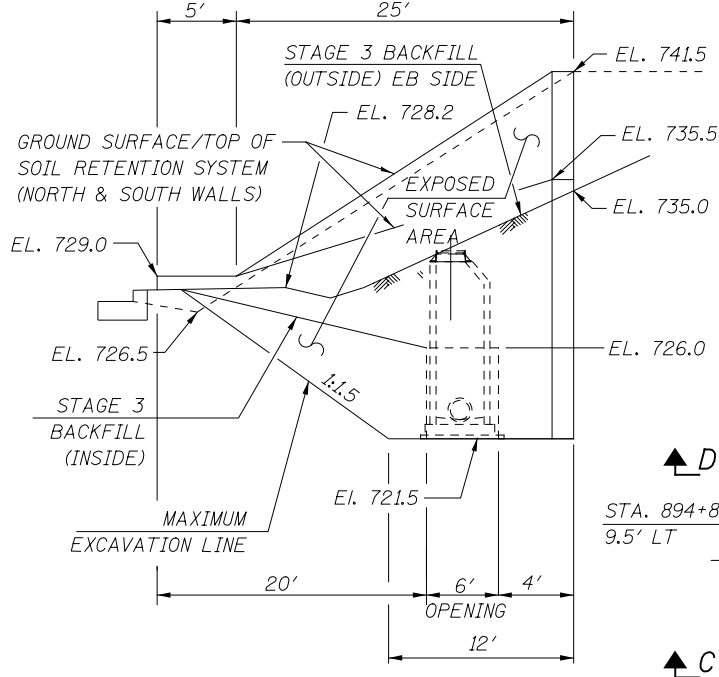


**SOUTH ELEVATION VIEW A-A**  
(LOOKING NORTH)

**TEMPORARY SOIL RETENTION SYSTEM WEST EMBANKMENT**  
EST. QUANTITY = 1,138 ft<sup>2</sup>  
SEE RDWY PLANS FOR DRAINAGE STRUCTURE DETAILS

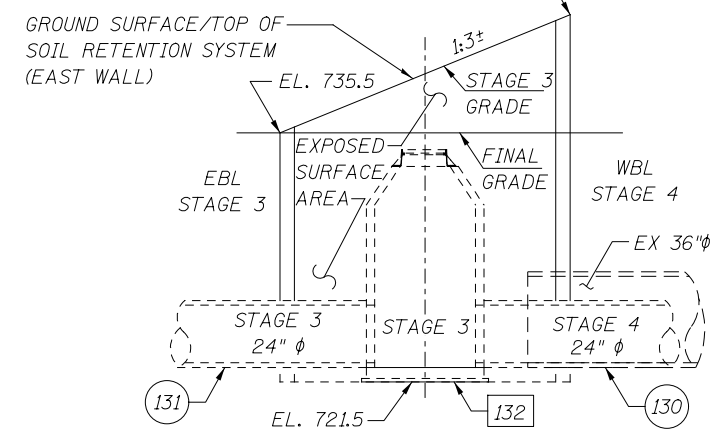
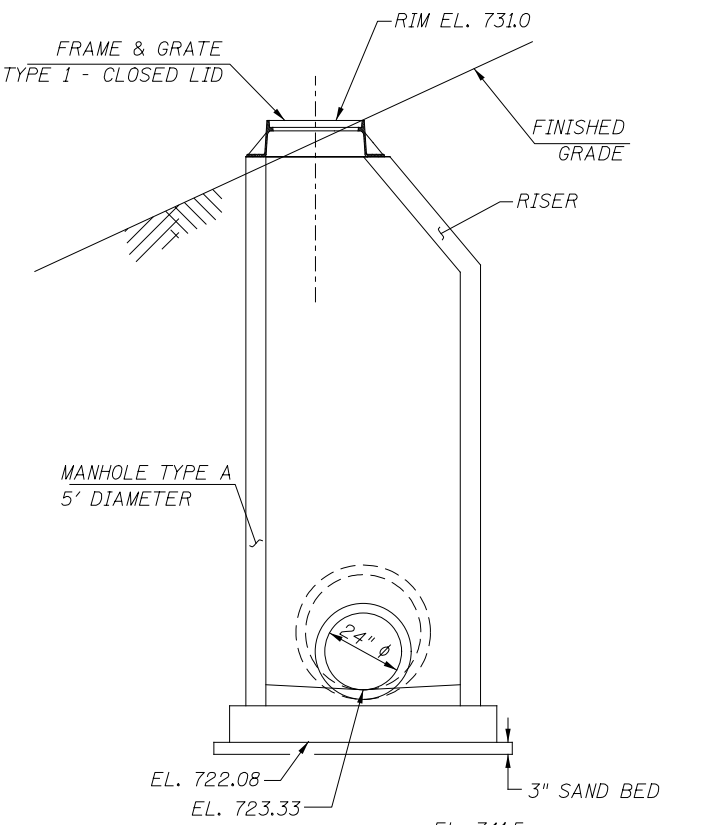


**NORTH ELEVATION VIEW D-D**  
(LOOKING NORTH)

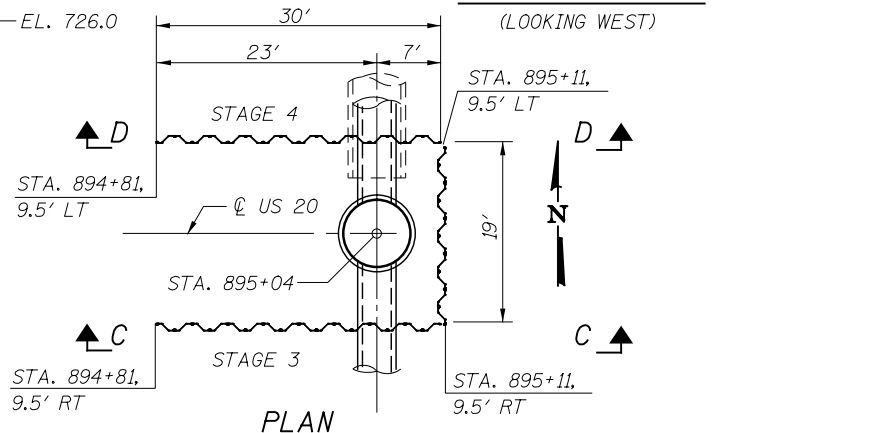


**SOUTH ELEVATION VIEW C-C**  
(LOOKING NORTH)

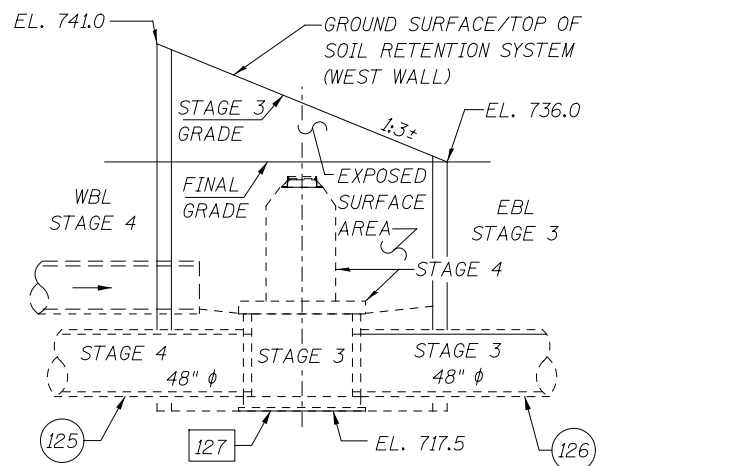
**TEMPORARY SOIL RETENTION SYSTEM EAST EMBANKMENT**  
EST. QUANTITY = 893 ft<sup>2</sup>  
SEE RDWY PLANS FOR DRAINAGE STRUCTURE DETAILS



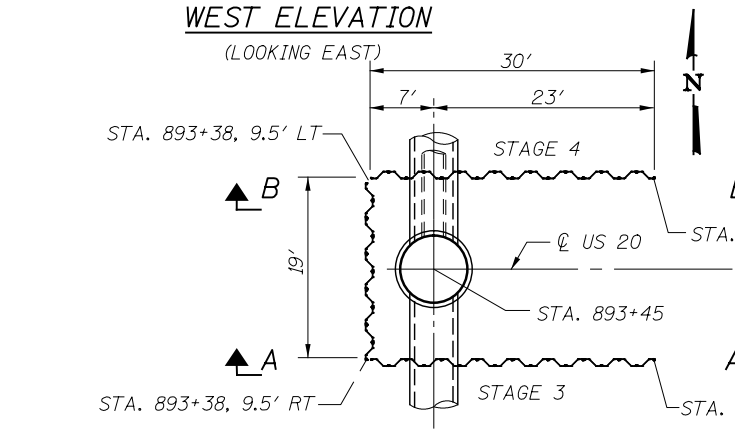
**EAST ELEVATION**  
(LOOKING WEST)



**PLAN**  
(EAST EMBANKMENT)



**WEST ELEVATION**  
(LOOKING EAST)



**PLAN**  
(WEST EMBANKMENT)

**KNIGHT**  
Engineers & Architects

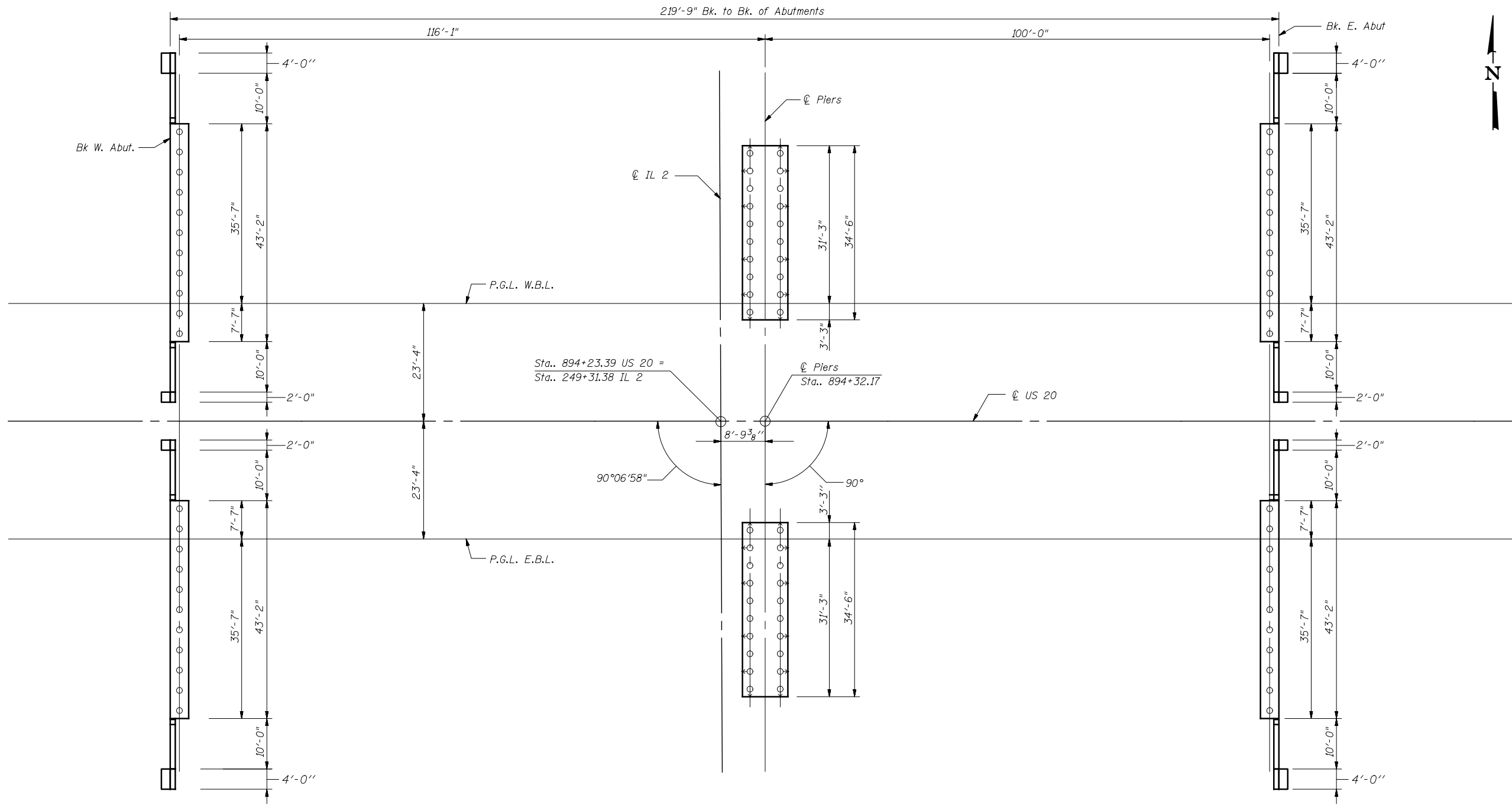
DESIGNED - FW	REVISION
CHECKED - WPM	REVISION
SCALE - NONE	REVISION
DATE - 8/16/2018	REVISION
DRAWN - DC	REVISION
CHECKED - WPM	REVISION

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

**TEMPORARY SOIL RETENTION SYSTEM**  
**STRUCTURE NUMBER 101-0186 (EB) AND 101-0187 (WB)**

DRAWING NO. 5-03 OF 39 DRAWINGS

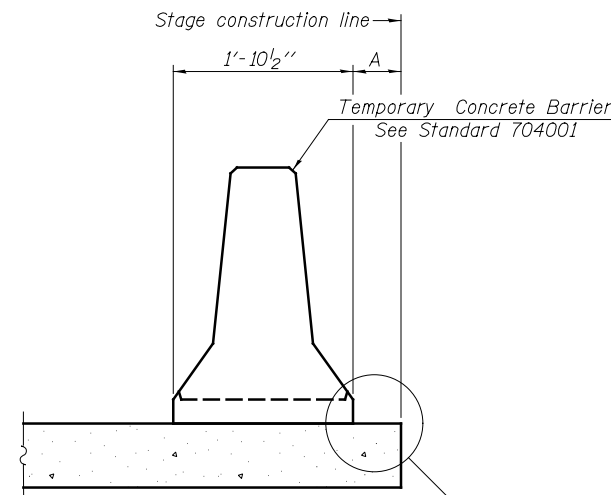
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	3HBR	WINNEBAGO	689	493
ILLINOIS FED. AID PROJECT			CONTRACT NO. 64B87	



**FOOTING LAYOUT**

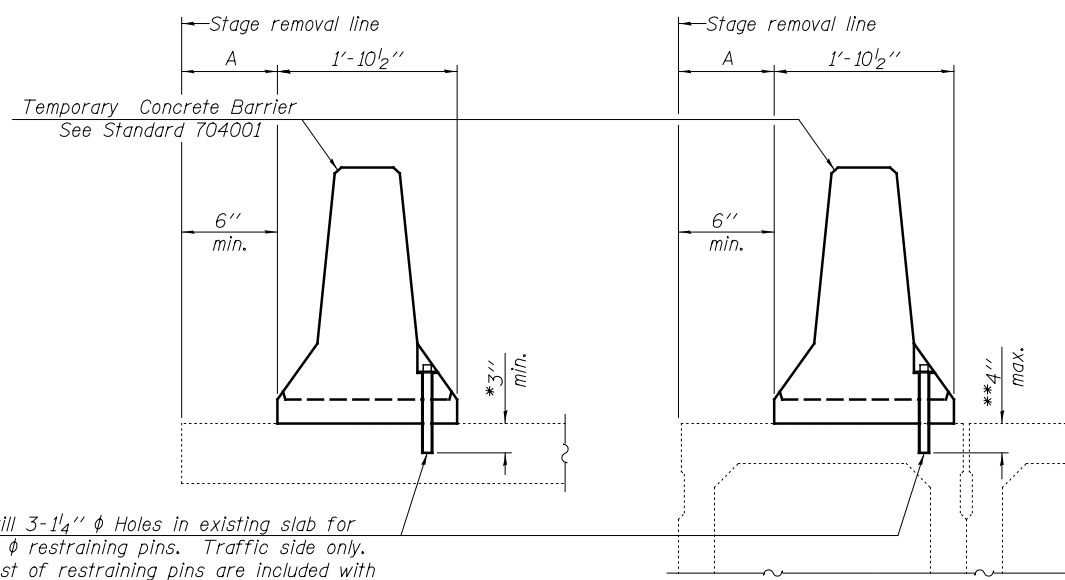
For pile spacing refer to drawings S-30 thru S-35 of 39.

<b>KNIGHT</b> Engineers & Architects	DESIGNED - FW	REVISED	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>FOOTING LAYOUT</b> <b>STRUCTURE NUMBER 101-0186 (EB) AND 101-0187 (WB)</b>		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	CHECKED - WPM	REVISED				301	3HBR	WINNEBAGO	689	494
	SCALE - NONE	REVISED				CONTRACT NO. 64B87				
DATE - 8/16/2018	DRAWN - DC	REVISED	DRAWING NO. S-04 OF 39 DRAWINGS		ILLINOIS FED. AID PROJECT					
	CHECKED - WPM	REVISED								



When "A" is 3'-1" or less, the temporary concrete barrier shall be restrained to the new slab according to Detail I or Detail II. No restraint is required when "A" is greater than 3'-1".

NEW SLAB



Drill 3-1/4"  $\phi$  Holes in existing slab for 1"  $\phi$  restraining pins. Traffic side only. Cost of restraining pins are included with Temporary Concrete Barrier. No restraint is required when "A" is greater than 3'-1".

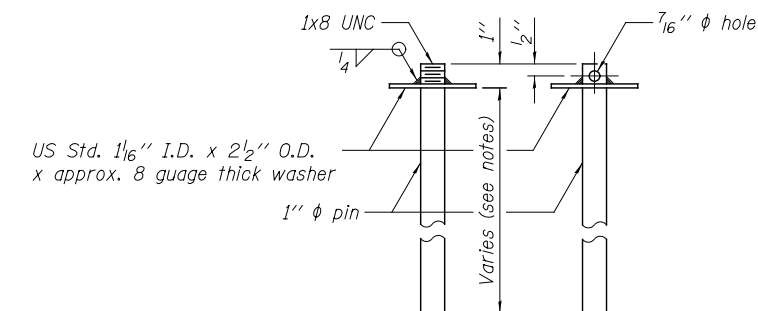
EXISTING SLAB

EXISTING DECK BEAM

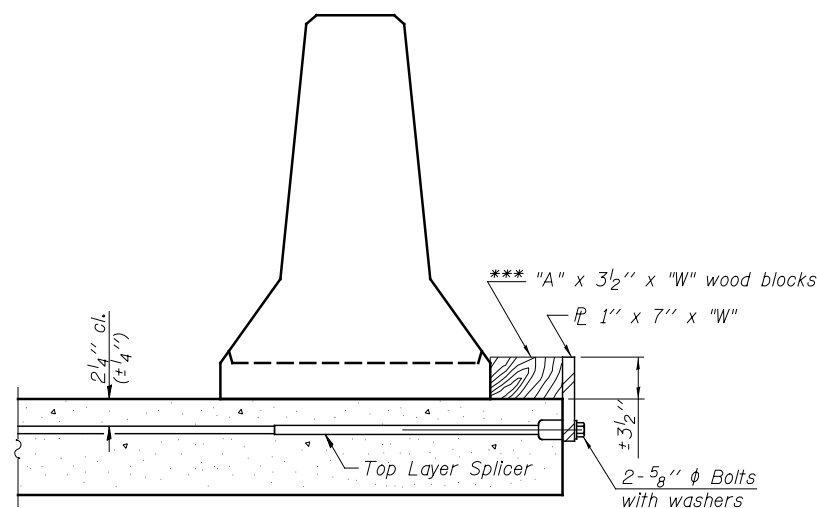
SECTIONS THRU SLAB OR DECK BEAM

\* Dimension shown is minimum required embedment into concrete. If hot-mix asphalt wearing surface is present, minimum embedment shall be in addition to wearing surface depth.

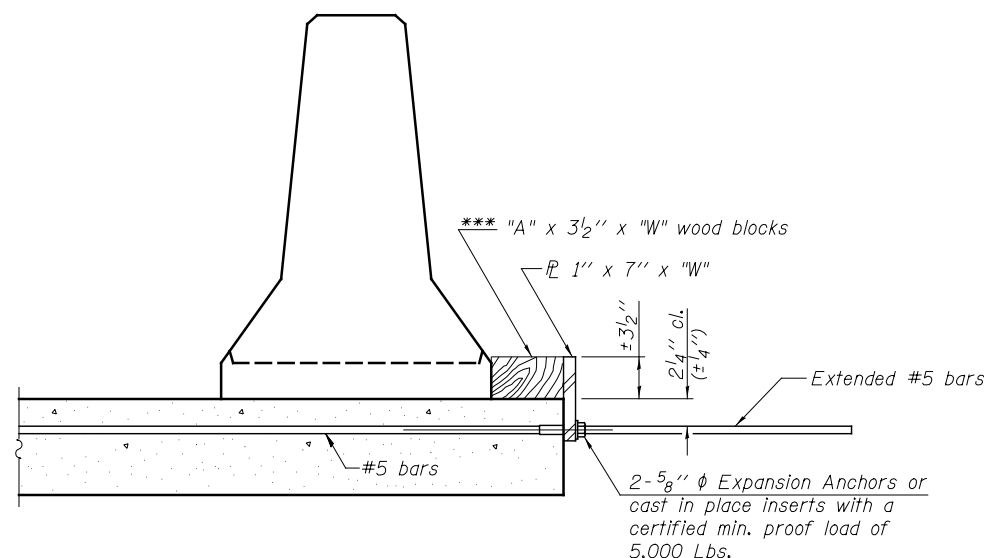
\*\* If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.



RESTRAINING PIN



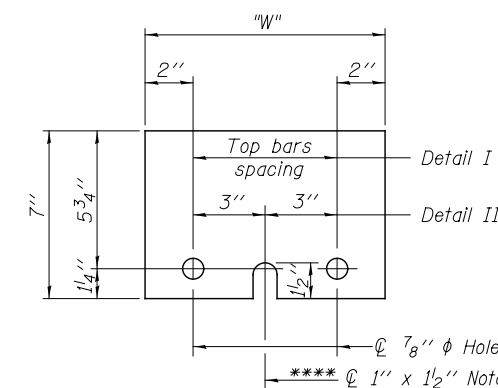
DETAIL I



DETAIL II

RETAINER ASSEMBLY

\*\*\* Wood blocks may be omitted when required to provide minimum stage traffic lane width. When the wood blocks are omitted, the concrete barrier shall be in direct contact with the steel retainer plate.



STEEL RETAINER 1" x 7" x "W"

\*\*\*\* Required only with Detail II

NOTES

Detail I - With Bar Splicer or Couplers: Connect one (1) 1" x 7" x "W" steel  $\bar{L}$  to the top layer of couplers with 2-5/8"  $\phi$  bolts screwed to coupler at approximate  $\bar{C}$  of each barrier panel.

Detail II - With Extended Reinforcement Bars: Connect one (1) 1" x 7" x "W" steel  $\bar{L}$  to the concrete slab or concrete wearing surface with 2-5/8"  $\phi$  Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate  $\bar{C}$  of each barrier panel.

Cost of retainer assembly is included with Temporary Concrete Barrier. The 1" x 7" x "W" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

See roadway plans for Temporary Concrete Barrier Schedule and Summary of Quantities

R-27

2-19-16

**KNIGHT**  
Engineers & Architects

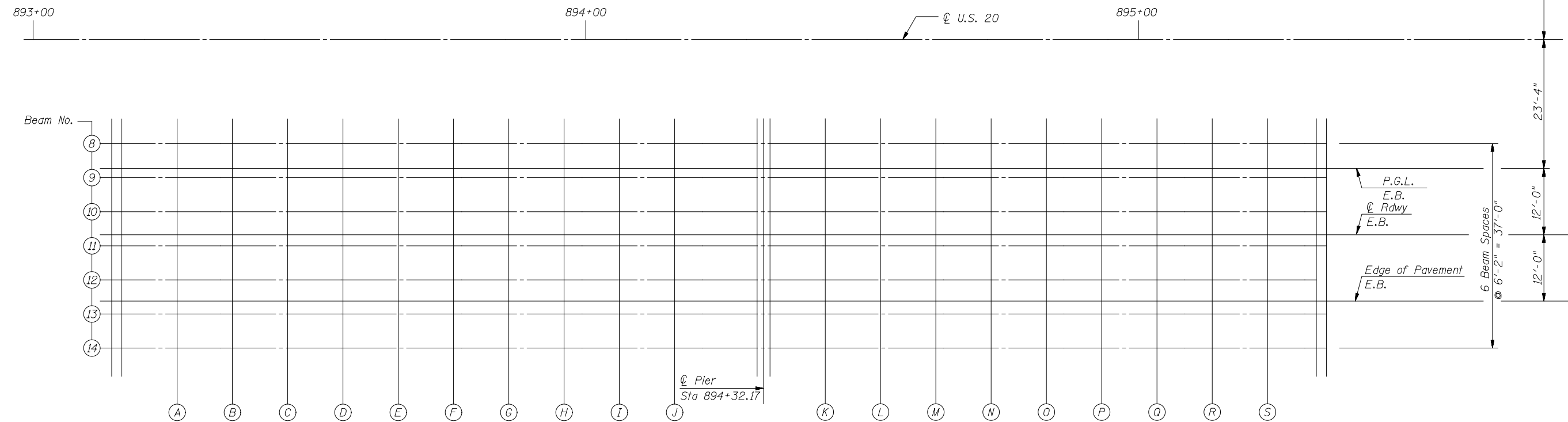
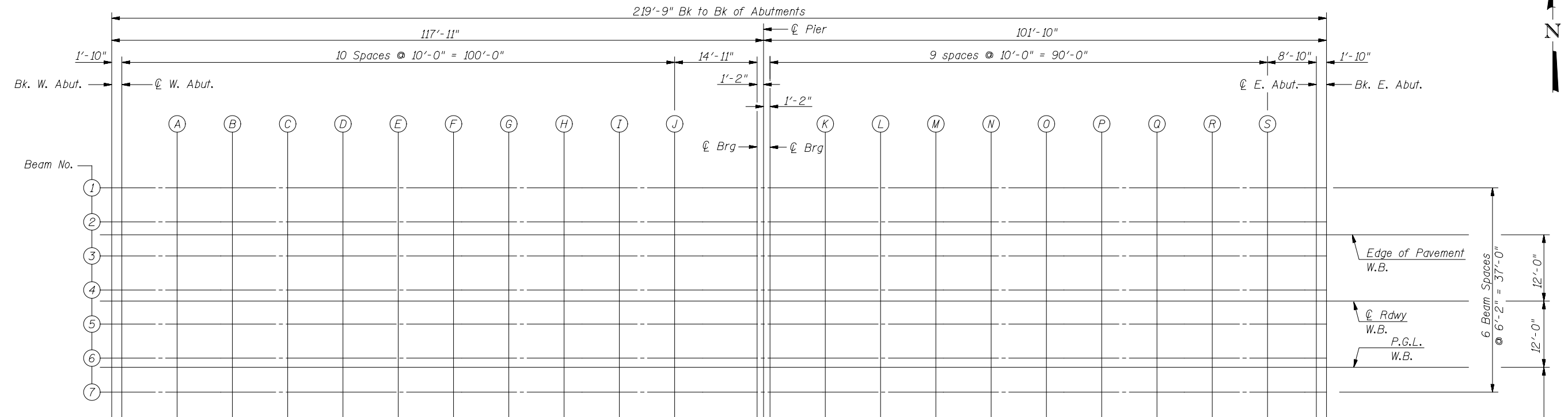
DESIGNED - FW	REVISION
CHECKED - WPM	REVISION
SCALE - NONE	REVISION
DATE - 8/16/2018	REVISION
DRAWN - DC	REVISION
CHECKED - WPM	REVISION

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION  
STRUCTURE NUMBER 101-0186 (EB) AND 101-0187 (WB)

DRAWING NO. S-05 OF 39 DRAWINGS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	3HRB	WINNEBAGO	689	495
CONTRACT NO. 64B87				
ILLINOIS FED. AID PROJECT				



PLAN

**KNIGHT**  
Engineers & Architects

DESIGNED - FW	REVISED
CHECKED - WPM	REVISED
DRAWN - DC	REVISED
CHECKED - WPM	REVISED
SCALE - NONE	
DATE - 8/16/2018	

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

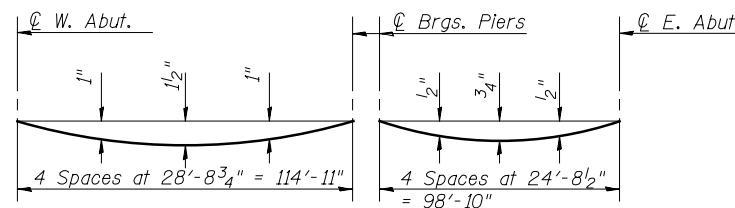
TOP OF SLAB ELEVATIONS - LOCATION PLAN  
STRUCTURE NUMBER 101-0186 (EB) AND 101-0187 (WB)

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	3HBR	WINNEBAGO	689	496
CONTRACT NO. 64B87				

DRAWING NO. 5-06 OF 39 DRAWINGS

ILLINOIS FED. AID PROJECT



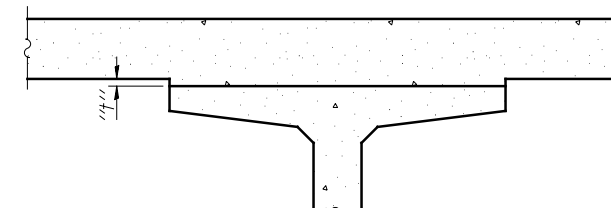


**DEAD LOAD DEFLECTION DIAGRAM**

(Includes weight of concrete, excluding beams).

**Note:**

The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown below.



To determine "t": After all precast prestressed beams have been erected, elevations of the top flanges of the beams shall be taken at intervals shown below. These elevations subtracted from the "Theoretical Grade Elevations Adjusted For Dead Load Deflections" show below, minus slab thickness, equals the fillet heights "t" above top flanges of beams.

**FILLET HEIGHTS**

**BEAM 1**

Location	Station	*Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. WEST ABUT	893+14.250	-32.5	753.31	753.31
CL WEST ABUT	893+16.090	-32.5	753.3	753.3
A	893+26.090	-32.5	753.25	753.28
B	893+36.090	-32.5	753.19	753.25
C	893+46.090	-32.5	753.13	753.22
D	893+56.090	-32.5	753.07	753.17
E	893+66.090	-32.5	753	753.12
F	893+76.090	-32.5	752.93	753.05
G	893+86.090	-32.5	752.85	752.96
H	893+96.090	-32.5	752.77	752.87
I	894+06.090	-32.5	752.69	752.76
J	894+16.090	-32.5	752.6	752.64
CL BRG WEST	894+31.000	-32.5	752.46	752.46
CL PIER	894+32.170	-32.5	752.45	752.45
CL BRG EAST	894+33.340	-32.5	752.44	752.44
K	894+43.340	-32.5	752.34	752.36
L	894+53.340	-32.5	752.24	752.27
M	894+63.340	-32.5	752.13	752.18
N	894+73.340	-32.5	752.02	752.08
O	894+83.340	-32.5	751.9	751.97
P	894+93.340	-32.5	751.78	751.84
Q	895+03.340	-32.5	751.66	751.71
R	895+13.340	-32.5	751.53	751.57
S	895+23.340	-32.5	751.4	751.42
CL EAST ABUT	895+32.170	-32.5	751.28	751.28
BK.EAST ABUT	895+34.000	-32.5	751.26	751.26

**BEAM 2**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. WEST ABUT	893+14.250	-26.33	753.44	753.44
CL WEST ABUT	893+16.090	-26.33	753.43	753.43
A	893+26.090	-26.33	753.38	753.41
B	893+36.090	-26.33	753.32	753.38
C	893+46.090	-26.33	753.26	753.35
D	893+56.090	-26.33	753.2	753.31
E	893+66.090	-26.33	753.13	753.25
F	893+76.090	-26.33	753.06	753.18
G	893+86.090	-26.33	752.98	753.09
H	893+96.090	-26.33	752.9	753.00
I	894+06.090	-26.33	752.82	752.89
J	894+16.090	-26.33	752.73	752.77
CL BRG WEST	894+31.000	-26.33	752.59	752.59
CL PIER	894+32.170	-26.33	752.58	752.58
CL BRG EAST	894+33.340	-26.33	752.57	752.57
K	894+43.340	-26.33	752.47	752.49
L	894+53.340	-26.33	752.36	752.40
M	894+63.340	-26.33	752.26	752.31
N	894+73.340	-26.33	752.15	752.21
O	894+83.340	-26.33	752.03	752.10
P	894+93.340	-26.33	751.91	751.97
Q	895+03.340	-26.33	751.79	751.84
R	895+13.340	-26.33	751.66	751.70
S	895+23.340	-26.33	751.53	751.55
CL EAST ABUT	895+32.170	-26.33	751.41	751.41
BK.EAST ABUT	895+34.000	-26.33	751.38	751.38

**W.B. EDGE OF PAVEMENT**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. WEST ABUT	893+14.250	-24.00	753.49	753.49
CL WEST ABUT	893+16.090	-24.00	753.48	753.48
A	893+26.090	-24.00	753.43	753.46
B	893+36.090	-24.00	753.37	753.43
C	893+46.090	-24.00	753.31	753.40
D	893+56.090	-24.00	753.25	753.35
E	893+66.090	-24.00	753.18	753.30
F	893+76.090	-24.00	753.11	753.23
G	893+86.090	-24.00	753.03	753.14
H	893+96.090	-24.00	752.95	753.05
I	894+06.090	-24.00	752.86	752.94
J	894+16.090	-24.00	752.78	752.82
CL BRG WEST	894+31.000	-24.00	752.64	752.64
CL PIER	894+32.170	-24.00	752.63	752.63
CL BRG EAST	894+33.340	-24.00	752.61	752.61
K	894+43.340	-24.00	752.52	752.53
L	894+53.340	-24.00	752.41	752.45
M	894+63.340	-24.00	752.31	752.36
N	894+73.340	-24.00	752.19	752.26
O	894+83.340	-24.00	752.08	752.14
P	894+93.340	-24.00	751.96	752.02
Q	895+03.340	-24.00	751.84	751.89
R	895+13.340	-24.00	751.71	751.74
S	895+23.340	-24.00	751.58	751.59
CL EAST ABUT	895+32.170	-24.00	751.46	751.46
BK.EAST ABUT	895+34.000	-24.00	751.43	751.43

\*Offsets for the Westbound Bridge (101-0187) are relative to the westbound PGL. Offsets for the Eastbound Bridge (101-0186) are relative to the eastbound PGL. Negative values reflect offsets that are left, or north, of the PGL, and positive values reflect offsets that are right, or south, of the PGL. Beams 1 thru 7 are associated with the westbound bridge, and beams 8 thru 14 are associated with the eastbound bridge.

BEAM 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. WEST ABUT	893+14.250	-20.167	753.55	753.55
CL WEST ABUT	893+16.090	-20.167	753.54	753.54
A	893+26.090	-20.167	753.49	753.52
B	893+36.090	-20.167	753.43	753.49
C	893+46.090	-20.167	753.37	753.46
D	893+56.090	-20.167	753.31	753.41
E	893+66.090	-20.167	753.24	753.36
F	893+76.090	-20.167	753.17	753.29
G	893+86.090	-20.167	753.09	753.20
H	893+96.090	-20.167	753.01	753.11
I	894+06.090	-20.167	752.92	753.00
J	894+16.090	-20.167	752.84	752.88
CL BRG WEST	894+31.000	-20.167	752.70	752.70
CL PIER	894+32.170	-20.167	752.69	752.69
CL BRG EAST	894+33.340	-20.167	752.67	752.67
K	894+43.340	-20.167	752.58	752.59
L	894+53.340	-20.167	752.47	752.51
M	894+63.340	-20.167	752.36	752.42
N	894+73.340	-20.167	752.25	752.32
O	894+83.340	-20.167	752.14	752.20
P	894+93.340	-20.167	752.02	752.08
Q	895+03.340	-20.167	751.90	751.95
R	895+13.340	-20.167	751.77	751.80
S	895+23.340	-20.167	751.64	751.65
CL EAST ABUT	895+32.170	-20.167	751.52	751.52
BK. EAST ABUT	895+34.000	-20.167	751.49	751.49

BEAM 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. WEST ABUT	893+14.250	-14.00	753.64	753.64
CL WEST ABUT	893+16.090	-14.00	753.63	753.63
A	893+26.090	-14.00	753.58	753.61
B	893+36.090	-14.00	753.53	753.59
C	893+46.090	-14.00	753.47	753.55
D	893+56.090	-14.00	753.40	753.51
E	893+66.090	-14.00	753.33	753.45
F	893+76.090	-14.00	753.26	753.38
G	893+86.090	-14.00	753.19	753.30
H	893+96.090	-14.00	753.11	753.20
I	894+06.090	-14.00	753.02	753.10
J	894+16.090	-14.00	752.93	752.98
CL BRG WEST	894+31.000	-14.00	752.79	752.79
CL PIER	894+32.170	-14.00	752.78	752.78
CL BRG EAST	894+33.340	-14.00	752.77	752.77
K	894+43.340	-14.00	752.67	752.69
L	894+53.340	-14.00	752.57	752.61
M	894+63.340	-14.00	752.46	752.51
N	894+73.340	-14.00	752.35	752.41
O	894+83.340	-14.00	752.23	752.30
P	894+93.340	-14.00	752.12	752.18
Q	895+03.340	-14.00	751.99	752.04
R	895+13.340	-14.00	751.86	751.90
S	895+23.340	-14.00	751.73	751.75
CL EAST ABUT	895+32.170	-14.00	751.61	751.61
BK. EAST ABUT	895+34.000	-14.00	751.59	751.59

ROADWAY W.B.

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. WEST ABUT	893+14.250	-12.00	753.67	753.67
CL WEST ABUT	893+16.090	-12.00	753.67	753.67
A	893+26.090	-12.00	753.61	753.65
B	893+36.090	-12.00	753.56	753.62
C	893+46.090	-12.00	753.50	753.59
D	893+56.090	-12.00	753.43	753.54
E	893+66.090	-12.00	753.37	753.48
F	893+76.090	-12.00	753.29	753.41
G	893+86.090	-12.00	753.22	753.33
H	893+96.090	-12.00	753.14	753.23
I	894+06.090	-12.00	753.05	753.13
J	894+16.090	-12.00	752.96	753.01
CL BRG WEST	894+31.000	-12.00	752.82	752.82
CL PIER	894+32.170	-12.00	752.81	752.81
CL BRG EAST	894+33.340	-12.00	752.80	752.80
K	894+43.340	-12.00	752.70	752.72
L	894+53.340	-12.00	752.60	752.64
M	894+63.340	-12.00	752.49	752.54
N	894+73.340	-12.00	752.38	752.44
O	894+83.340	-12.00	752.27	752.33
P	894+93.340	-12.00	752.15	752.21
Q	895+03.340	-12.00	752.02	752.08
R	895+13.340	-12.00	751.90	751.93
S	895+23.340	-12.00	751.76	751.78
CL EAST ABUT	895+32.170	-12.00	751.64	751.64
BK. EAST ABUT	895+34.000	-12.00	751.62	751.62

BEAM 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. WEST ABUT	893+14.250	-7.83	753.60	753.60
CL WEST ABUT	893+16.090	-7.83	753.59	753.59
A	893+26.090	-7.83	753.54	753.57
B	893+36.090	-7.83	753.49	753.54
C	893+46.090	-7.83	753.42	753.51
D	893+56.090	-7.83	753.36	753.46
E	893+66.090	-7.83	753.29	753.40
F	893+76.090	-7.83	753.22	753.33
G	893+86.090	-7.83	753.14	753.24
H	893+96.090	-7.83	753.06	753.15
I	894+06.090	-7.83	752.98	753.04
J	894+16.090	-7.83	752.89	752.93
CL BRG WEST	894+31.000	-7.83	752.76	752.76
CL PIER	894+32.170	-7.83	752.75	752.75
CL BRG EAST	894+33.340	-7.83	752.74	752.74
K	894+43.340	-7.83	752.64	752.66
L	894+53.340	-7.83	752.54	752.57
M	894+63.340	-7.83	752.43	752.48
N	894+73.340	-7.83	752.32	752.38
O	894+83.340	-7.83	752.20	752.26
P	894+93.340	-7.83	752.08	752.14
Q	895+03.340	-7.83	751.96	752.01
R	895+13.340	-7.83	751.83	751.87
S	895+23.340	-7.83	751.70	751.72
CL EAST ABUT	895+32.170	-7.83	751.60	751.60
BK.EAST ABUT	895+34.000	-7.83	751.58	751.58

BEAM 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. WEST ABUT	893+14.250	-1.67	753.51	753.51
CL WEST ABUT	893+16.090	-1.67	753.50	753.50
A	893+26.090	-1.67	753.45	753.48
B	893+36.090	-1.67	753.39	753.45
C	893+46.090	-1.67	753.33	753.41
D	893+56.090	-1.67	753.27	753.37
E	893+66.090	-1.67	753.20	753.31
F	893+76.090	-1.67	753.13	753.23
G	893+86.090	-1.67	753.05	753.15
H	893+96.090	-1.67	752.97	753.06
I	894+06.090	-1.67	752.88	752.95
J	894+16.090	-1.67	752.79	752.83
CL BRG WEST	894+31.000	-1.67	752.67	752.67
CL PIER	894+32.170	-1.67	752.66	752.66
CL BRG EAST	894+33.340	-1.67	752.65	752.65
K	894+43.340	-1.67	752.55	752.57
L	894+53.340	-1.67	752.44	752.48
M	894+63.340	-1.67	752.34	752.39
N	894+73.340	-1.67	752.23	752.28
O	894+83.340	-1.67	752.11	752.17
P	894+93.340	-1.67	751.99	752.05
Q	895+03.340	-1.67	751.87	751.91
R	895+13.340	-1.67	751.74	751.77
S	895+23.340	-1.67	751.61	751.62
CL EAST ABUT	895+32.170	-1.67	751.51	751.51
BK.EAST ABUT	895+34.000	-1.67	751.49	751.49

P.G.L. W.B.

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. WEST ABUT	893+14.250	0.00	753.49	753.49
CL WEST ABUT	893+16.090	0.00	753.48	753.48
A	893+26.090	0.00	753.43	753.46
B	893+36.090	0.00	753.37	753.43
C	893+46.090	0.00	753.31	753.4
D	893+56.090	0.00	753.25	753.35
E	893+66.090	0.00	753.18	753.3
F	893+76.090	0.00	753.11	753.23
G	893+86.090	0.00	753.03	753.14
H	893+96.090	0.00	752.95	753.05
I	894+06.090	0.00	752.86	752.94
J	894+16.090	0.00	752.78	752.82
CL BRG WEST	894+31.000	0.00	752.64	752.64
CL PIER	894+32.170	0.00	752.63	752.63
CL BRG EAST	894+33.340	0.00	752.61	752.61
K	894+43.340	0.00	752.52	752.53
L	894+53.340	0.00	752.41	752.45
M	894+63.340	0.00	752.31	752.36
N	894+73.340	0.00	752.19	752.26
O	894+83.340	0.00	752.08	752.14
P	894+93.340	0.00	751.96	752.02
Q	895+03.340	0.00	751.84	751.89
R	895+13.340	0.00	751.71	751.74
S	895+23.340	0.00	751.58	751.59
CL EAST ABUT	895+32.170	0.00	751.46	751.46
BK.EAST ABUT	895+34.000	0.00	751.43	751.43

← WESTBOUND BRIDGE
← EASTBOUND BRIDGE →  
STRUCTURE NO. 101-0187
STRUCTURE NO. 101-0186

BEAM 7

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. WEST ABUT	893+14.250	4.50	753.39	753.39
CL WEST ABUT	893+16.090	4.50	753.38	753.38
A	893+26.090	4.50	753.33	753.36
B	893+36.090	4.50	753.28	753.34
C	893+46.090	4.50	753.22	753.30
D	893+56.090	4.50	753.15	753.26
E	893+66.090	4.50	753.08	753.20
F	893+76.090	4.50	753.01	753.13
G	893+86.090	4.50	752.94	753.05
H	893+96.090	4.50	752.86	752.95
I	894+06.090	4.50	752.77	752.84
J	894+16.090	4.50	752.68	752.73
CL BRG WEST	894+31.000	4.50	752.54	752.54
CL PIER	894+32.170	4.50	752.53	752.53
CL BRG EAST	894+33.340	4.50	752.52	752.52
K	894+43.340	4.50	752.42	752.44
L	894+53.340	4.50	752.32	752.36
M	894+63.340	4.50	752.21	752.26
N	894+73.340	4.50	752.10	752.16
O	894+83.340	4.50	751.98	752.05
P	894+93.340	4.50	751.87	751.93
Q	895+03.340	4.50	751.74	751.79
R	895+13.340	4.50	751.61	751.65
S	895+23.340	4.50	751.48	751.50
CL EAST ABUT	895+32.170	4.50	751.36	751.36
BK. EAST ABUT	895+34.000	4.50	751.34	751.34

BEAM 8

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. WEST ABUT	893+14.250	-4.50	753.39	753.39
CL WEST ABUT	893+16.090	-4.50	753.38	753.38
A	893+26.090	-4.50	753.33	753.36
B	893+36.090	-4.50	753.28	753.34
C	893+46.090	-4.50	753.22	753.30
D	893+56.090	-4.50	753.15	753.26
E	893+66.090	-4.50	753.08	753.20
F	893+76.090	-4.50	753.01	753.13
G	893+86.090	-4.50	752.94	753.05
H	893+96.090	-4.50	752.86	752.95
I	894+06.090	-4.50	752.77	752.84
J	894+16.090	-4.50	752.68	752.73
CL BRG WEST	894+31.000	-4.50	752.54	752.54
CL PIER	894+32.170	-4.50	752.53	752.53
CL BRG EAST	894+33.340	-4.50	752.52	752.52
K	894+43.340	-4.50	752.42	752.44
L	894+53.340	-4.50	752.32	752.36
M	894+63.340	-4.50	752.21	752.26
N	894+73.340	-4.50	752.10	752.16
O	894+83.340	-4.50	751.98	752.05
P	894+93.340	-4.50	751.87	751.93
Q	895+03.340	-4.50	751.74	751.79
R	895+13.340	-4.50	751.61	751.65
S	895+23.340	-4.50	751.48	751.50
CL EAST ABUT	895+32.170	-4.50	751.36	751.36
BK. EAST ABUT	895+34.000	-4.50	751.34	751.34

P.G.L. E.B.

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. WEST ABUT	893+14.250	0.00	753.49	753.49
CL WEST ABUT	893+16.090	0.00	753.48	753.48
A	893+26.090	0.00	753.43	753.46
B	893+36.090	0.00	753.37	753.43
C	893+46.090	0.00	753.31	753.4
D	893+56.090	0.00	753.25	753.35
E	893+66.090	0.00	753.18	753.3
F	893+76.090	0.00	753.11	753.23
G	893+86.090	0.00	753.03	753.14
H	893+96.090	0.00	752.95	753.05
I	894+06.090	0.00	752.86	752.94
J	894+16.090	0.00	752.78	752.82
CL BRG WEST	894+31.000	0.00	752.64	752.64
CL PIER	894+32.170	0.00	752.63	752.63
CL BRG EAST	894+33.340	0.00	752.61	752.61
K	894+43.340	0.00	752.52	752.53
L	894+53.340	0.00	752.41	752.45
M	894+63.340	0.00	752.31	752.36
N	894+73.340	0.00	752.19	752.26
O	894+83.340	0.00	752.08	752.14
P	894+93.340	0.00	751.96	752.02
Q	895+03.340	0.00	751.84	751.89
R	895+13.340	0.00	751.71	751.74
S	895+23.340	0.00	751.58	751.59
CL EAST ABUT	895+32.170	0.00	751.46	751.46
BK. EAST ABUT	895+34.000	0.00	751.43	751.43