

**NOTES:**

1. SEE SHEET LT-01 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
2. EXISTING LIGHTING UNITS SHALL REMAIN IN PLACE AND OPERATIONAL UNTIL PROPOSED LIGHTING SYSTEM IS INSTALLED AND OPERATIONAL.
3. MEDIAN MOUNTED LIGHT POLES, MAST ARMS, AND LUMINAIRES TO BE REMOVED. BARRIER WALL TO BE REPAIRED.

C:\Projects\user\ER\_jacobs\comb\01\Documents\C9226680\_1-94\_ILS\_41\C9226680\_720\cadd\720\select\Lighting Plans (50 Scale)\E2N05 North Conventional\01626085-nht-light-20.dgn

LT-20

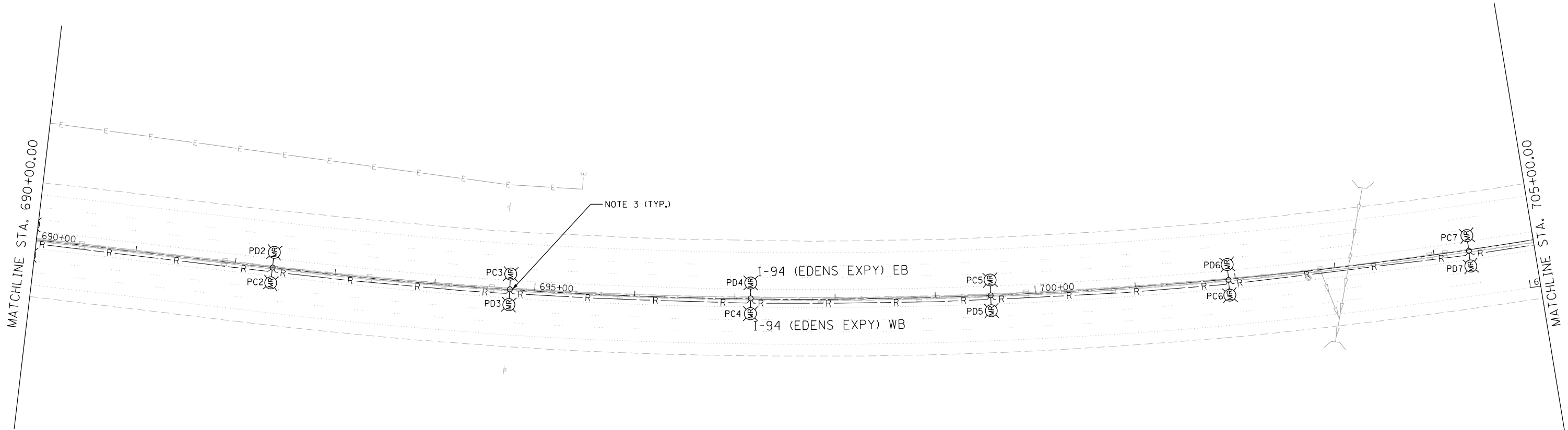
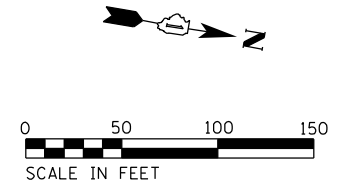


USER NAME = korabmp	DESIGNED - VN	REVISED -
	DRAWN - VN	REVISED -
PLOT SCALE =	CHECKED - RP/MG	REVISED -
PLOT DATE = 8/12/2022	DATE - 7/11/2022	REVISED -

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

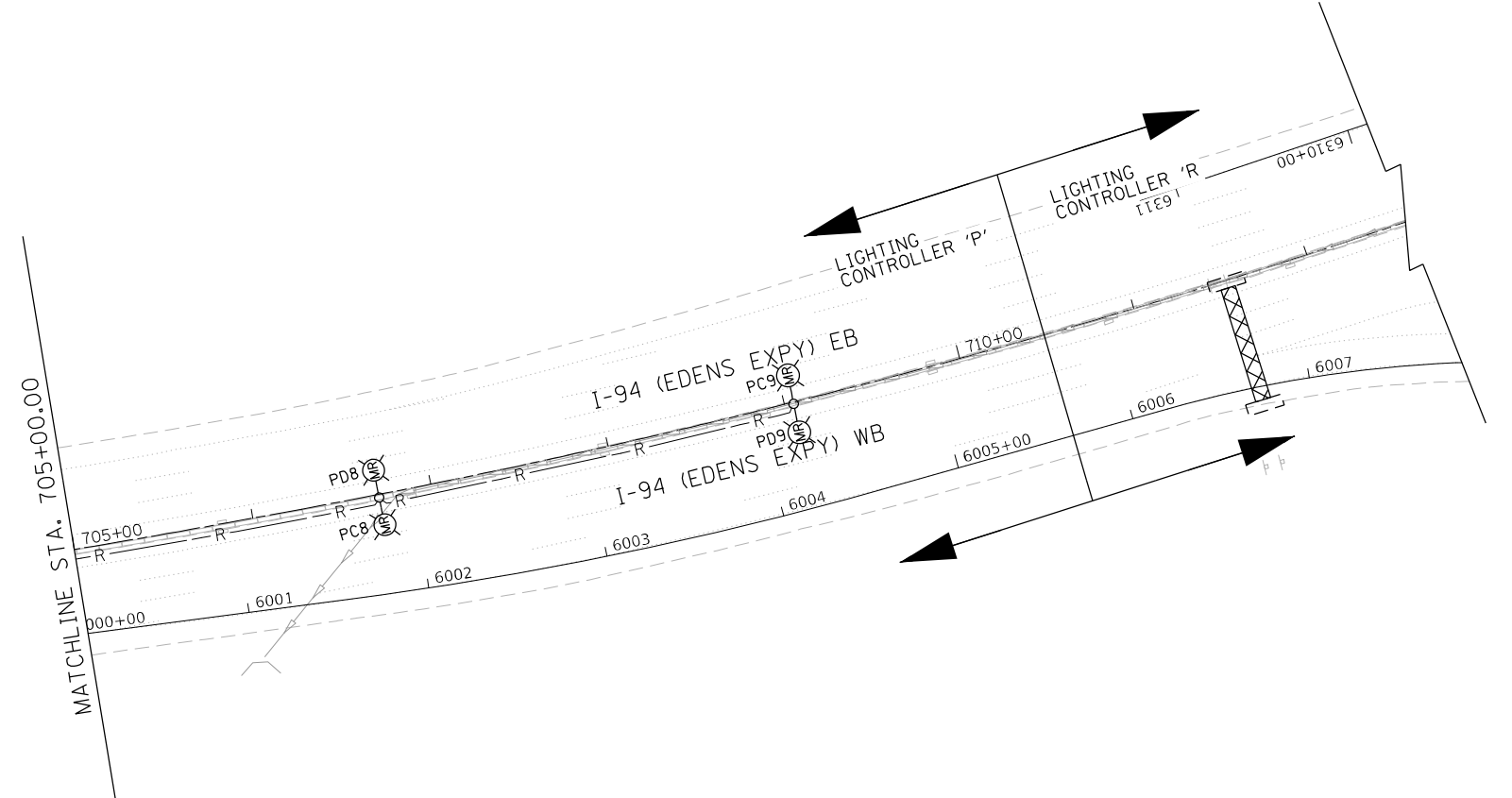
**I-94 /US 41 SMART HIGHWAY**  
**I-94 LIGHTING REMOVAL PLANS**  
 SCALE: 1" = 50' SHEET 20 OF 86 SHEETS STA. 675+00 TO STA. 690+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2020-236-L	COOK/LAKE	173	101
CONTRACT NO. 62N05				
ILLINOIS FED. AID PROJECT				



**NOTES:**

1. SEE SHEET LT-01 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
2. EXISTING LIGHTING UNITS SHALL REMAIN IN PLACE AND OPERATIONAL UNTIL PROPOSED LIGHTING SYSTEM IS INSTALLED AND OPERATIONAL.
3. MEDIAN MOUNTED LIGHT POLES, MAST ARMS, AND LUMINAIRES TO BE REMOVED. BARRIER WALL TO BE REPAIRED.



C:\Users\korabmp\Documents\CAD\2022\I-94 US 41 Smart Highway\Lighting Plans\60\_Scale\62N05\_North\_Conventional\0162N05-ht-light-21.dgn

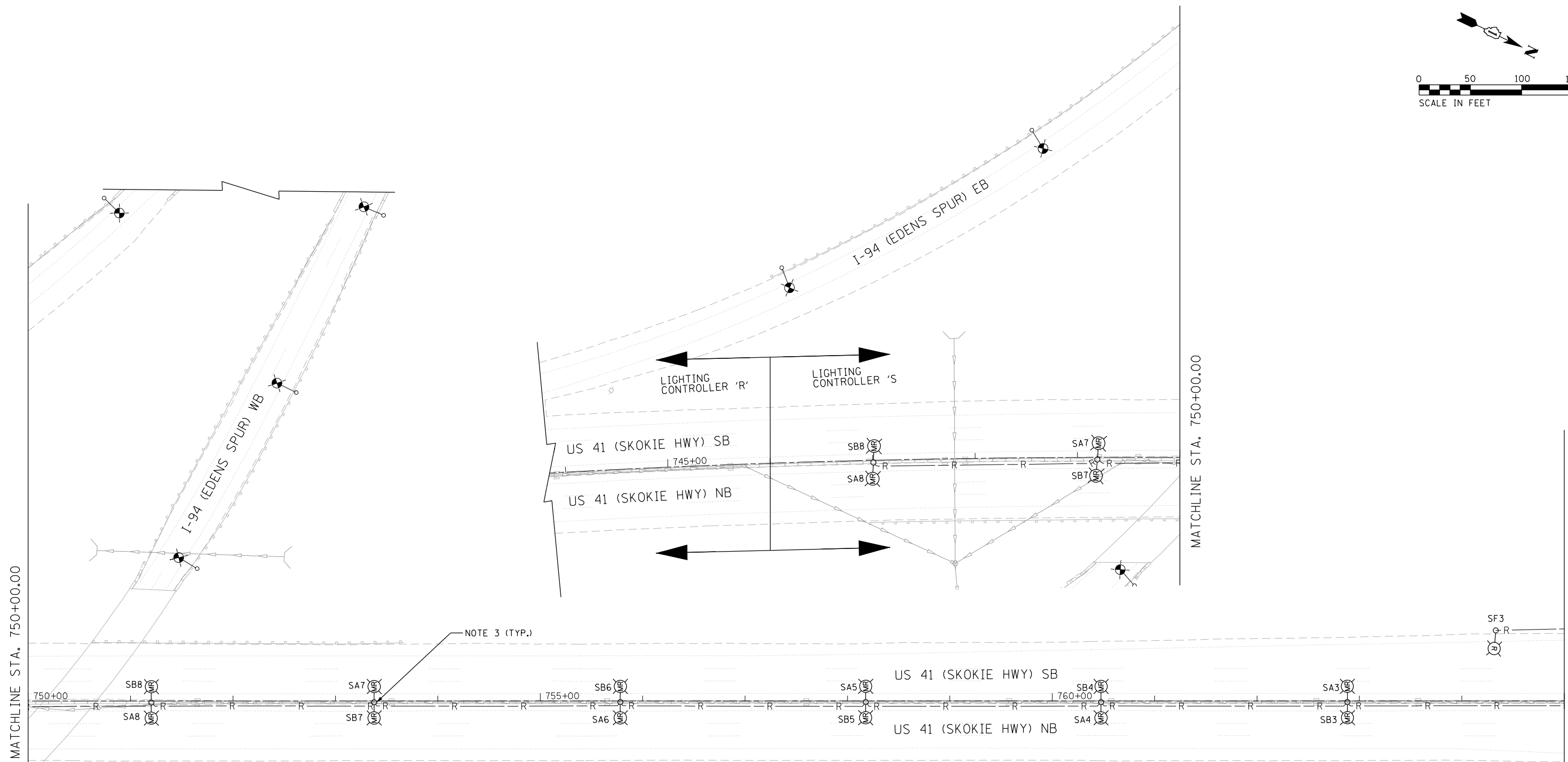
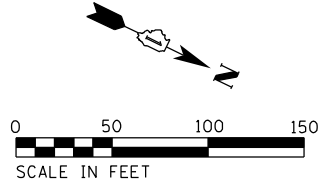


USER NAME = korabmp	DESIGNED - VN	REVISED -
DRAWN - VN	REVISIONS -	
PLOT SCALE =	CHECKED - RP/MG	REVISED -
PLOT DATE = 8/12/2022	DATE - 7/1/2022	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**I-94 /US 41 SMART HIGHWAY  
I-94 LIGHTING REMOVAL PLANS**  
 SCALE: 1" = 50' SHEET 21 OF 86 SHEETS STA. 690+00 TO STA. 712+50

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2020-236-L	COOK/LAKE	173	102
CONTRACT NO. 62N05				
ILLINOIS FED. AID PROJECT				



**NOTES:**

1. SEE SHEET LT-01 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
2. EXISTING LIGHTING UNITS SHALL REMAIN IN PLACE AND OPERATIONAL UNTIL PROPOSED LIGHTING SYSTEM IS INSTALLED AND OPERATIONAL.
3. MEDIAN MOUNTED LIGHT POLES, MAST ARMS, AND LUMINAIRES TO BE REMOVED. BARRIER WALL TO BE REPAIRED.

NOTE 3 (TYP.)

c:\projects\us41\er\_jacob\camb\1\Documents\c9226688\_1-94\_ILL\_41\c9226688\_706\cadd\703\select\Lighting Plans (50 Scale)\62N05 North Conventional\0162N05-nit-light-22.dgn

MATCHLINE STA. 750+00.00

MATCHLINE STA. 750+00.00

MATCHLINE STA. 765+00.00

LT-22



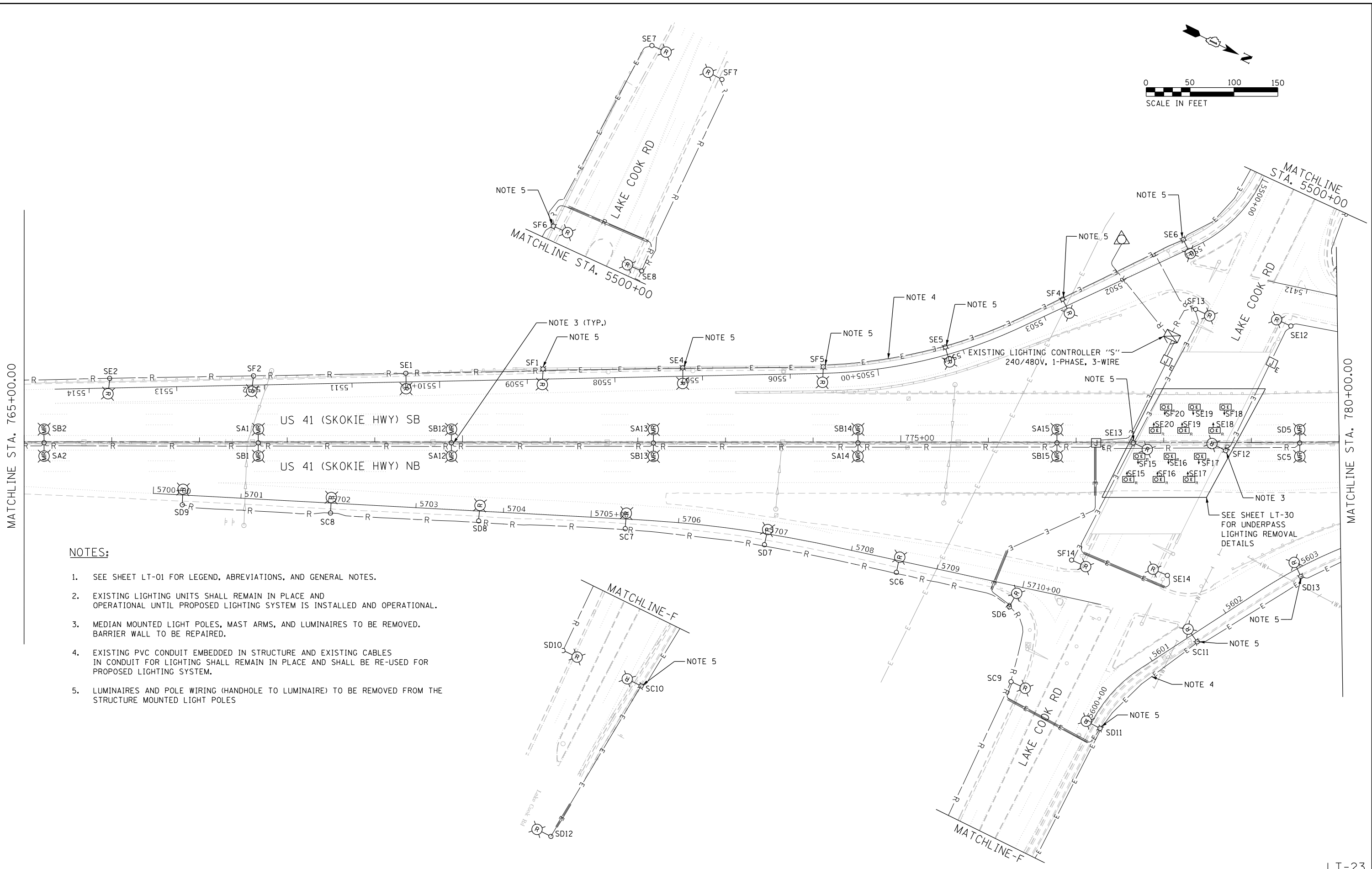
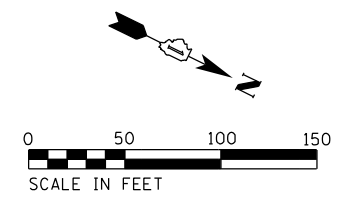
USER NAME = korabmp	DESIGNED - VN	REVISED -
	DRAWN - VN	REVISED -
PLOT SCALE =	CHECKED - RP/MG	REVISED -
PLOT DATE = 8/12/2022	DATE - 7/11/2022	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**I-94 /US 41 SMART HIGHWAY  
I-94 LIGHTING REMOVAL PLANS**

SCALE: 1" = 50' SHEET 22 OF 86 SHEETS STA. 743+80 TO STA. 765+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
US-41	2020-236-L	COOK/LAKE	173	103
CONTRACT NO. 62N05				
ILLINOIS FED. AID PROJECT				



**NOTES:**

1. SEE SHEET LT-01 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
2. EXISTING LIGHTING UNITS SHALL REMAIN IN PLACE AND OPERATIONAL UNTIL PROPOSED LIGHTING SYSTEM IS INSTALLED AND OPERATIONAL.
3. MEDIAN MOUNTED LIGHT POLES, MAST ARMS, AND LUMINAIRES TO BE REMOVED. BARRIER WALL TO BE REPAIRED.
4. EXISTING PVC CONDUIT EMBEDDED IN STRUCTURE AND EXISTING CABLES IN CONDUIT FOR LIGHTING SHALL REMAIN IN PLACE AND SHALL BE RE-USED FOR PROPOSED LIGHTING SYSTEM.
5. LUMINAIRES AND POLE WIRING (HANDHOLE TO LUMINAIRE) TO BE REMOVED FROM THE STRUCTURE MOUNTED LIGHT POLES

C:\Projects\us41\ER\_jacob\camb\01\Documents\c92206680\_1-94\_ILS\_41\c92206680\_720\cadd\720\select\lighting\Plans\50\_Scale\62N05\_North\_Conventional\016206680-ht-light-23.dgn



USER NAME = korabmp	DESIGNED - VN	REVISED -
	DRAWN - VN	REVISED -
PLOT SCALE =	CHECKED - RP/MG	REVISED -
PLOT DATE = 8/12/2022	DATE - 7/11/2022	REVISED -

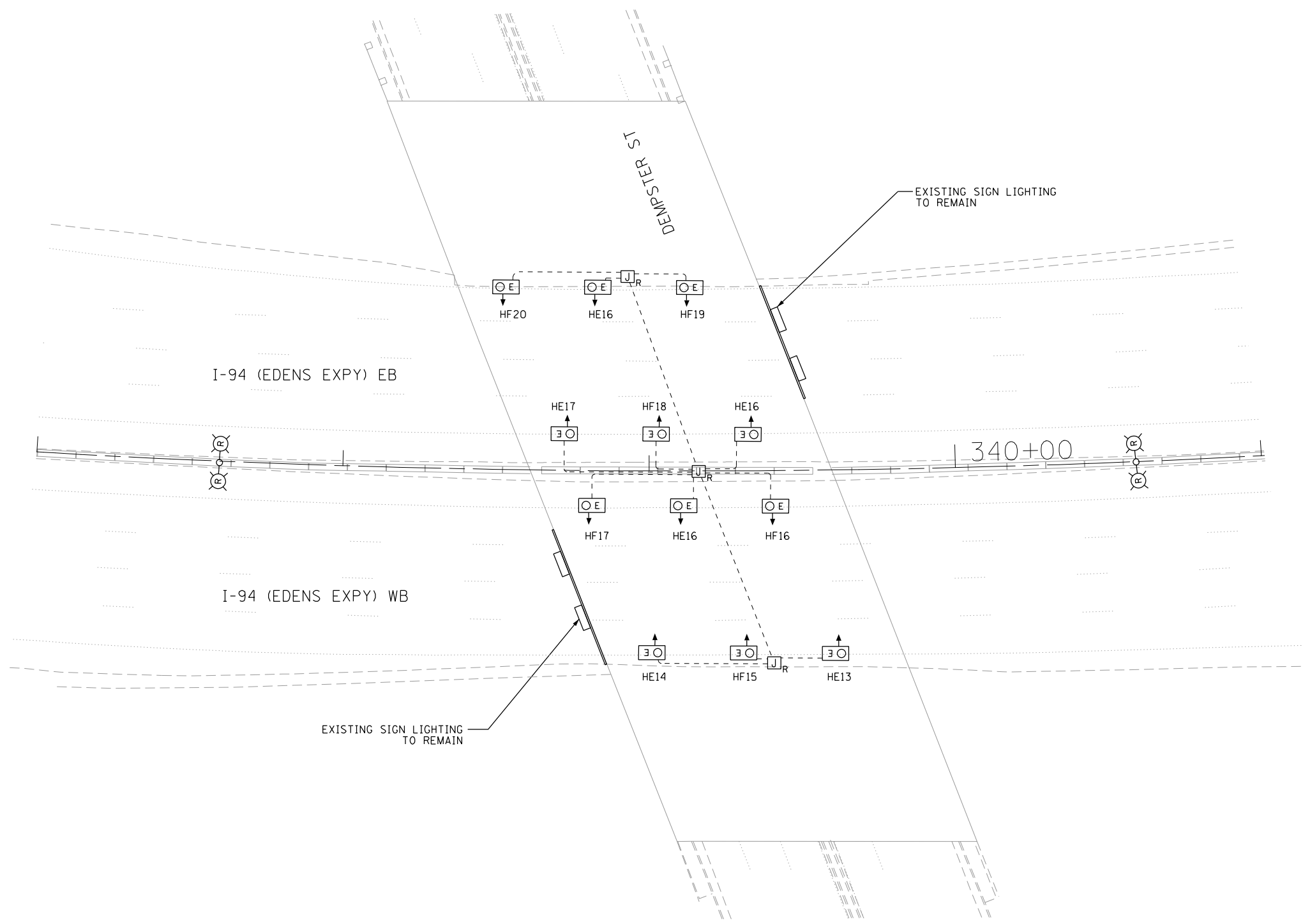
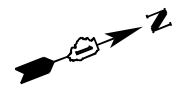
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**I-94 /US 41 SMART HIGHWAY  
I-94 LIGHTING REMOVAL PLANS**  
 SCALE: 1" = 50' SHEET 23 OF 86 SHEETS STA. 765+00 TO STA. 780+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
US-41	2020-236-L	COOK/LAKE	173	104
CONTRACT NO. 62N05				
ILLINOIS FED. AID PROJECT				







**NOTES**

1. THE REMOVAL OF EXISTING SUSPENDED MOUNT UNDERPASS LUMINAIRES MUST INCLUDE THE REMOVAL OF ALL CABLES, CONDUIT, AND HARDWARE ASSOCIATED WITH THE EXISTING UNDERPASS LIGHTING. THE COST OF THIS WORK WILL NOT BE PAID FOR SEPERATELY, BUT WILL BE INCLUDED IN THE COST OF THE ITEM "REMOVAL OF UNDERPASS LIGHTING UNIT, NO SALVAGE."



LT-25

p:\Projects\user\ER\_jacobs\com\03\Documents\192206608\_1-94\_ILS\_41\C91206608\_720\cadd\703\select\lighting\Plans (50\_Scale)\E2N05\_North\_Conventional\0162005-hlt-UPRem\_Dempster.dgn



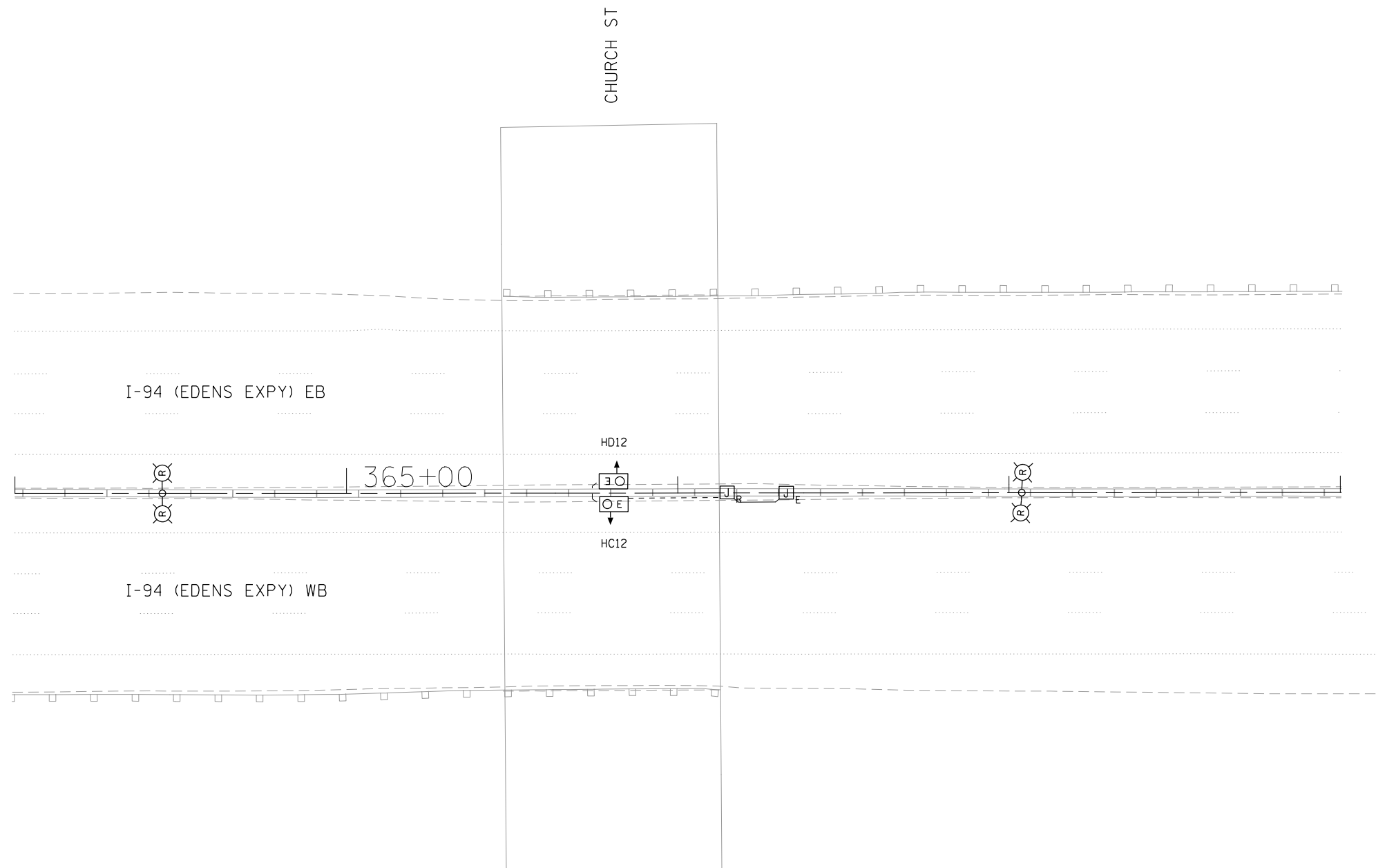
USER NAME = korabmp	DESIGNED - HP	REVISED -
	DRAWN - MG	REVISED -
PLOT SCALE =	CHECKED - RAS	REVISED -
PLOT DATE = 7/2/2022	DATE - 10/16/2020	REVISED -

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

**I-94 UNDER DEMPSTER STREET**  
**UNDERPASS LIGHTING REMOVAL PLAN**

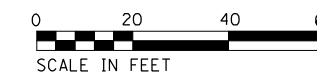
SCALE: 1" = 20' SHEET 25 OF 86 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2020-236-L	COOK/LAKE	173	106
CONTRACT NO. 62N05				
ILLINOIS FED. AID PROJECT				



**NOTES**

1. THE REMOVAL OF EXISTING SUSPENDED MOUNT UNDERPASS LUMINAIRES MUST INCLUDE THE REMOVAL OF ALL CABLES, CONDUIT, AND HARDWARE ASSOCIATED WITH THE EXISTING UNDERPASS LIGHTING. THE COST OF THIS WORK WILL NOT BE PAID FOR SEPERATELY, BUT WILL BE INCLUDED IN THE COST OF THE ITEM "REMOVAL OF UNDERPASS LIGHTING UNIT, NO SALVAGE."



LT-26

**Jacobs**

USER NAME = korabmp	DESIGNED - HP	REVISED -
	DRAWN - MG	REVISED -
PLOT SCALE =	CHECKED - RAS	REVISED -
PLOT DATE = 7/2/2022	DATE - 10/16/2020	REVISED -

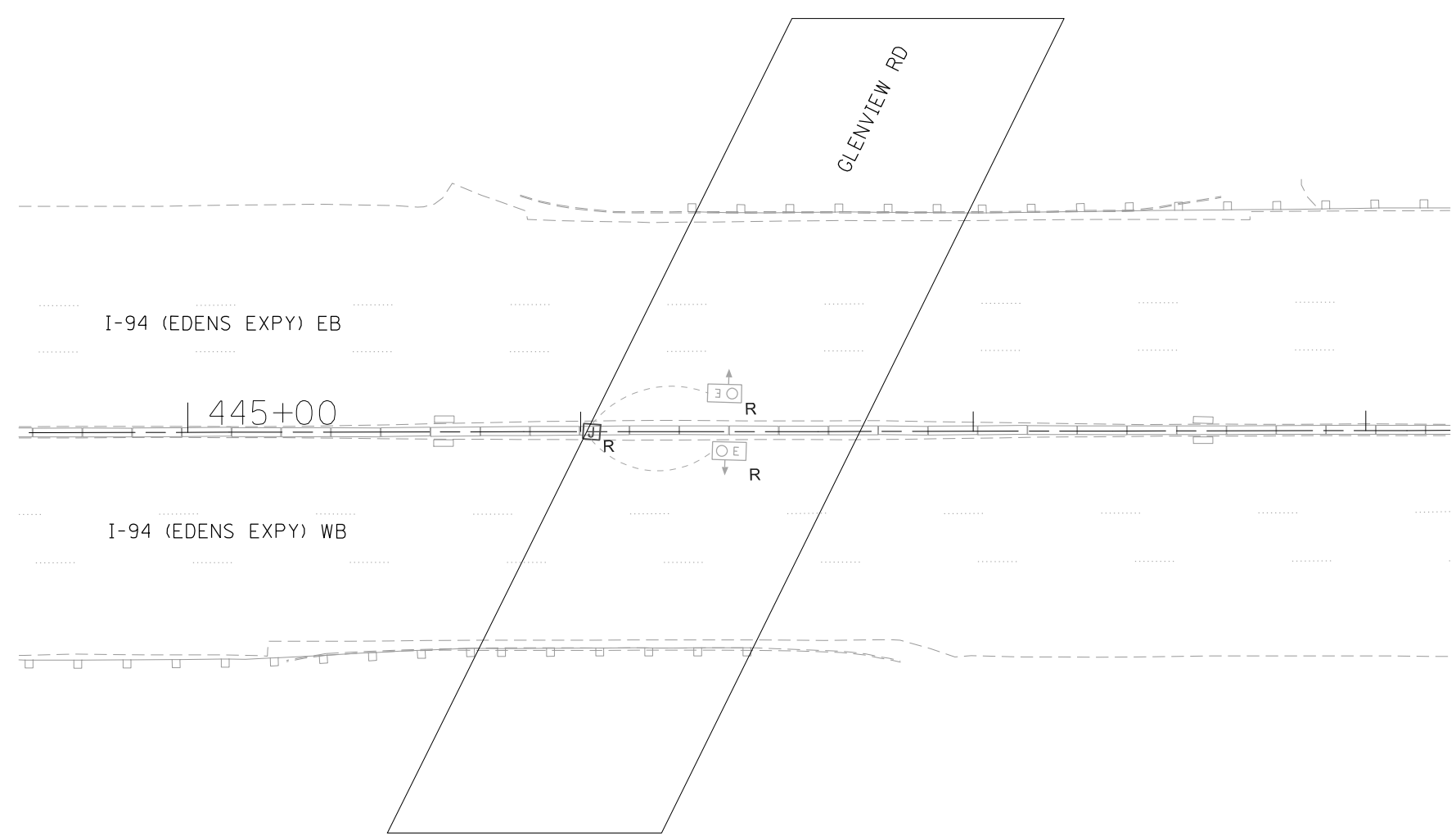
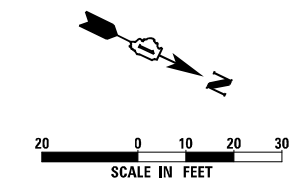
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**I-94 UNDER CHURCH STREET  
UNDERPASS LIGHTING REMOVAL PLAN**

SCALE: 1" = 20' SHEET 26 OF 86 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2020-236-L	COOK/LAKE	173	107
CONTRACT NO. 62N05				
ILLINOIS FED. AID PROJECT				

D:\Projects\user\ER\_jacobs\comb03\Documents\92206600\_1-94\_ILS-41\C92206600\_720\ecadd\703\select\Lighting Plans (50 Scale)\62N05 North Conventional\0162N05-nit-UPRem\_Church.dgn



**LEGEND:**

- REMOVE EXISTING CABLE AND CONDUIT
- <sub>J</sub> R REMOVE EXISTING JUNCTION BOX
- <sub>E</sub> R REMOVE EXISTING UNDERPASS LIGHTING FIXTURE

**NOTES:**

1. THE REMOVAL OF EXISTING WALL MOUNTED UNDERPASS LUMINAIRES MUST INCLUDE THE REMOVAL OF ALL CABLES, CONDUIT, AND HARDWARE ASSOCIATED WITH THE EXISTING UNDERPASS LIGHTING. THE COST OF THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE INCLUDED IN THE COST OF THE ITEM "REMOVAL OF UNDERPASS LIGHTING UNIT, NO SALVAGE."

p:\Projects\user\ER\_jacob\camb\Documents\C9226680\_1-94\_ILS\_41\C9226680\_720\cadd\720\select\Lighting Plans (50 Scale)\E2N05 North Conventional\0162N05-nit-light-57.dgn

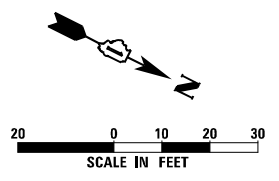


USER NAME = korabmp	DESIGNED - VN	REVISED -
	DRAWN - VN	REVISED -
PLOT SCALE =	CHECKED - RP/MG	REVISED -
PLOT DATE = 7/2/2022	DATE - 7/1/2022	REVISED -

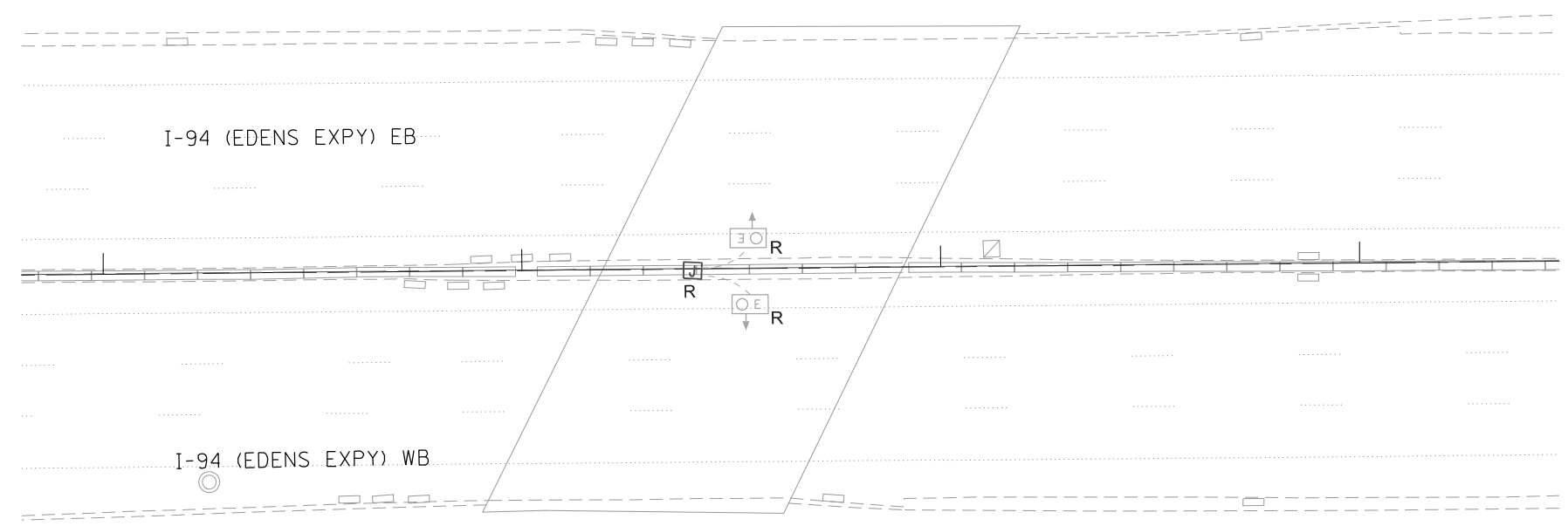
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**I-94 UNDER GLENVIEW ROAD**  
**UNDERPASS LIGHTING REMOVAL PLAN**  
 SCALE: 1" = 20' SHEET 27 OF 86 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2020-236-L	COOK/LAKE	173	108
CONTRACT NO. 62N05				
ILLINOIS FED. AID PROJECT				



WINNETKA AVE



- LEGEND:
- REMOVE EXISTING CABLE AND CONDUIT
  - J R REMOVE EXISTING JUNCTION BOX
  - OE ↓ R REMOVE EXISTING UNDERPASS LIGHTING FIXTURE

- NOTES:
1. THE REMOVAL OF EXISTING WALL MOUNTED UNDERPASS LUMINAIRES MUST INCLUDE THE REMOVAL OF ALL CABLES, CONDUIT, AND HARDWARE ASSOCIATED WITH THE EXISTING UNDERPASS LIGHTING. THE COST OF THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE INCLUDED IN THE COST OF THE ITEM "REMOVAL OF UNDERPASS LIGHTING UNIT, NO SALVAGE."

p:\Projects\winnetka\ER\_jacobson\Documents\C9206680\_1-94\_ILS-41\C9206680\_706ecedd\703\select\Lighting Plans (50 Scale).dgn  
 I:\C9206680\_1-94\_ILS-41\C9206680\_706ecedd\703\select\Lighting Plans (50 Scale).dgn



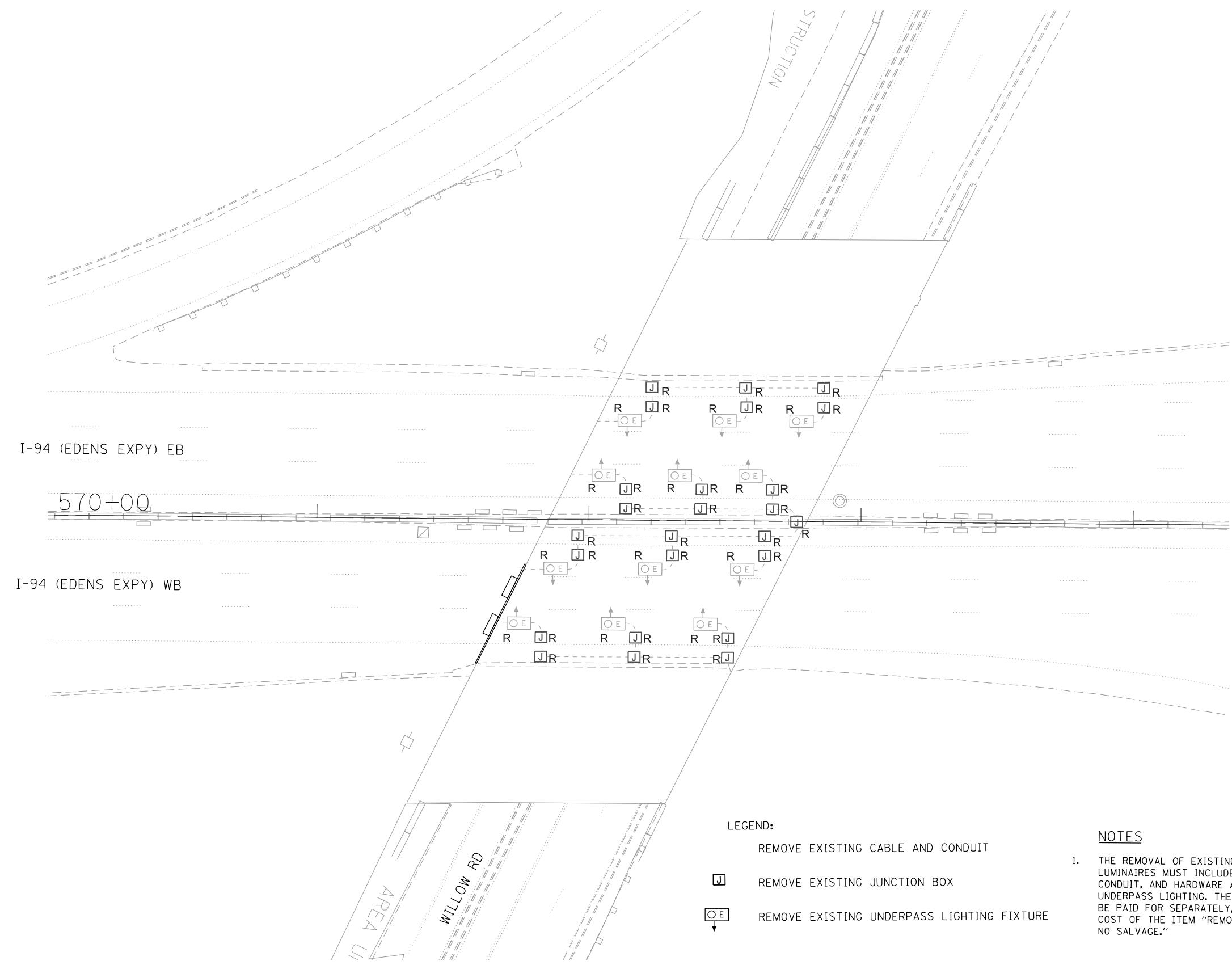
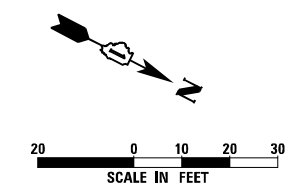
USER NAME = korabmp	DESIGNED - VN	REVISED -
DRAWN - VN	CHECKED - RP/MG	REVISED -
PLOT SCALE =	DATE - 7/1/2022	REVISED -
PLOT DATE = 7/2/2022		

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>I-94 UNDER WINNETKA ROAD UNDERPASS LIGHTING REMOVAL PLAN</b>			
SCALE: 1" = 20'	SHEET 28	OF 86 SHEETS STA.	TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2020-236-L	COOK/LAKE	173	109
CONTRACT NO. 62N05				
ILLINOIS FED. AID PROJECT				

LT-28



- LEGEND:**
- REMOVE EXISTING CABLE AND CONDUIT
  - REMOVE EXISTING JUNCTION BOX
  - REMOVE EXISTING UNDERPASS LIGHTING FIXTURE

- NOTES**
1. THE REMOVAL OF EXISTING SUSPENDED MOUNT UNDERPASS LUMINAIRES MUST INCLUDE THE REMOVAL OF ALL CABLES, CONDUIT, AND HARDWARE ASSOCIATED WITH THE EXISTING UNDERPASS LIGHTING. THE COST OF THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE INCLUDED IN THE COST OF THE ITEM "REMOVAL OF UNDERPASS LIGHTING UNIT, NO SALVAGE."

C:\Users\korabmp\Documents\CAD\2022\I-94\I-94\_41\CS\2022\Lighting\Lighting Plans (50 Scale)\62N05 North Conventional\0162N05-nit-light-519.dgn



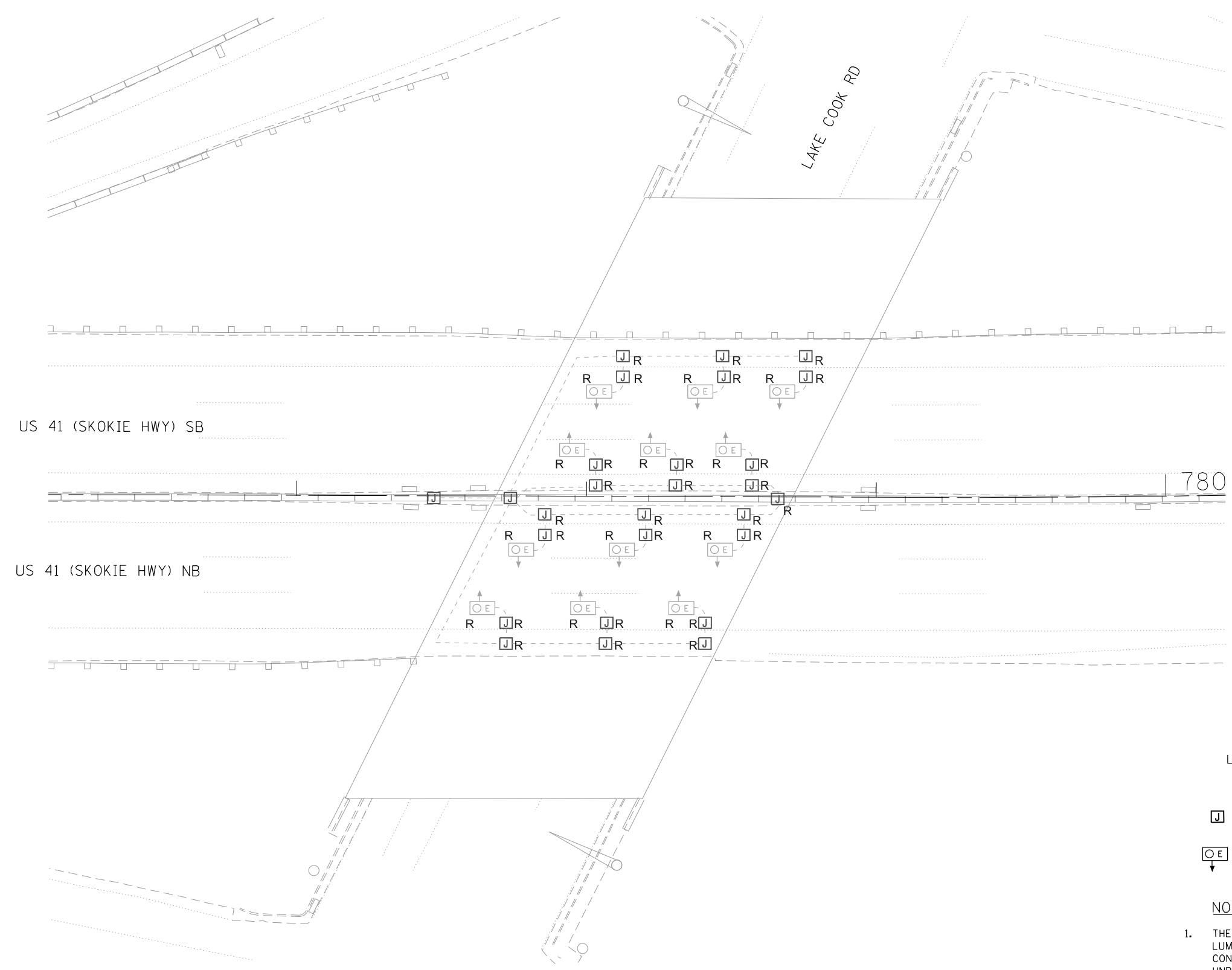
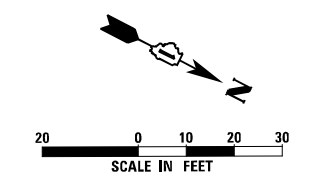
USER NAME = korabmp	DESIGNED - VN	REVISED -
	DRAWN - VN	REVISED -
PLOT SCALE =	CHECKED - RP/MG	REVISED -
PLOT DATE = 7/2/2022	DATE - 7/1/2022	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**I-94 UNDER WILLOW ROAD  
UNDERPASS LIGHTING REMOVAL PLAN**

SCALE: 1" = 20' SHEET 29 OF 86 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2020-236-L	COOK/LAKE	173	110
CONTRACT NO. 62N05				
ILLINOIS FED. AID PROJECT				



- LEGEND:**
- REMOVE EXISTING CABLE AND CONDUIT
  - REMOVE EXISTING JUNCTION BOX
  - E REMOVE EXISTING UNDERPASS LIGHTING FIXTURE

- NOTES**
- THE REMOVAL OF EXISTING SUSPENDED MOUNT UNDERPASS LUMINAIRES MUST INCLUDE THE REMOVAL OF ALL CABLES, CONDUIT, AND HARDWARE ASSOCIATED WITH THE EXISTING UNDERPASS LIGHTING. THE COST OF THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE INCLUDED IN THE COST OF THE ITEM "REMOVAL OF UNDERPASS LIGHTING UNIT, NO SALVAGE."

LT-30

C:\Users\korabmp\Documents\C9226680\_L-94\_ILS-41\C9226680\_720\cadd\720\select\Lighting Plans (50 Scale).dgn  
 C:\Users\korabmp\Documents\C9226680\_L-94\_ILS-41\C9226680\_720\cadd\720\select\Lighting Plans (50 Scale).dgn

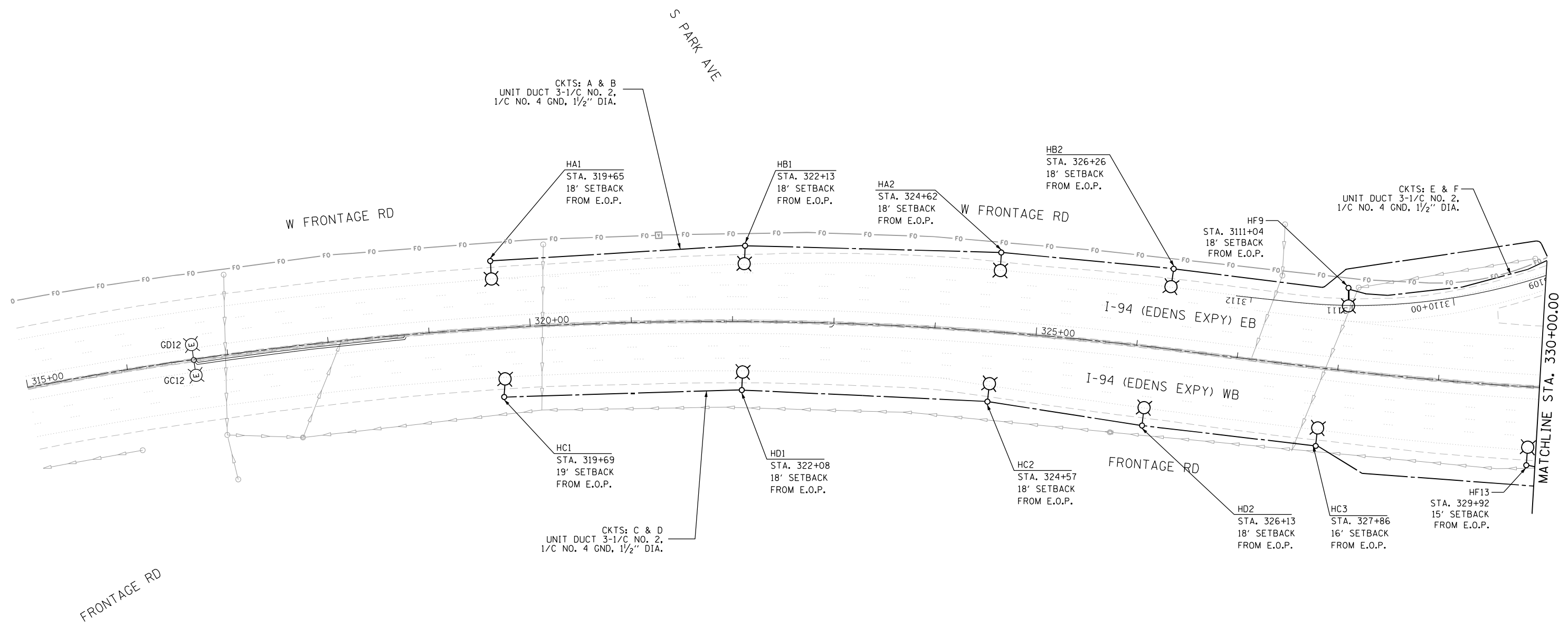
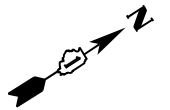


USER NAME = korabmp	DESIGNED - VN	REVISED -
	DRAWN - VN	REVISED -
PLOT SCALE =	CHECKED - RP/MG	REVISED -
PLOT DATE = 7/2/2022	DATE - 7/1/2022	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

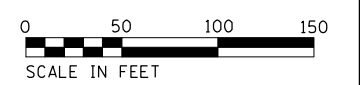
<b>I-94 UNDER LAKE COOK ROAD UNDERPASS LIGHTING REMOVAL PLAN</b>		
SCALE: 1" = 20'	SHEET 30 OF 86 SHEETS STA.	TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2020-236-L	COOK/LAKE	173	111
CONTRACT NO. 62N05			ILLINOIS FED. AID PROJECT	



p:\Projects\user\ER\_jacobs\comb\01\Documents\c9226688\_1-94\_ILS\_41\c9226688\_720\cadd\720\select\Lighting Plans (50 Scale)\62N05 North Conventional\01622688-ht-Lighting\_622.dgn

- NOTES:**
- REFER TO SHEET LT-01 FOR ELECTRICAL GENERAL NOTES AND LEGEND.
  - THE LOCATION OF FIBER OPTICS LINES SHOWN ON THE PLANS ARE APPROXIMATE AND TO BE USED FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR SHALL DETERMINE EXACT LOCATION OF FIBER OPTIC LINES WITHIN THE PROJECT LIMITS AND ANY FIBER OPTIC LINE DAMAGED DURING CONSTRUCTION SHALL BE REPLACED BY CONTRACTOR AT NO COST.



LT-31



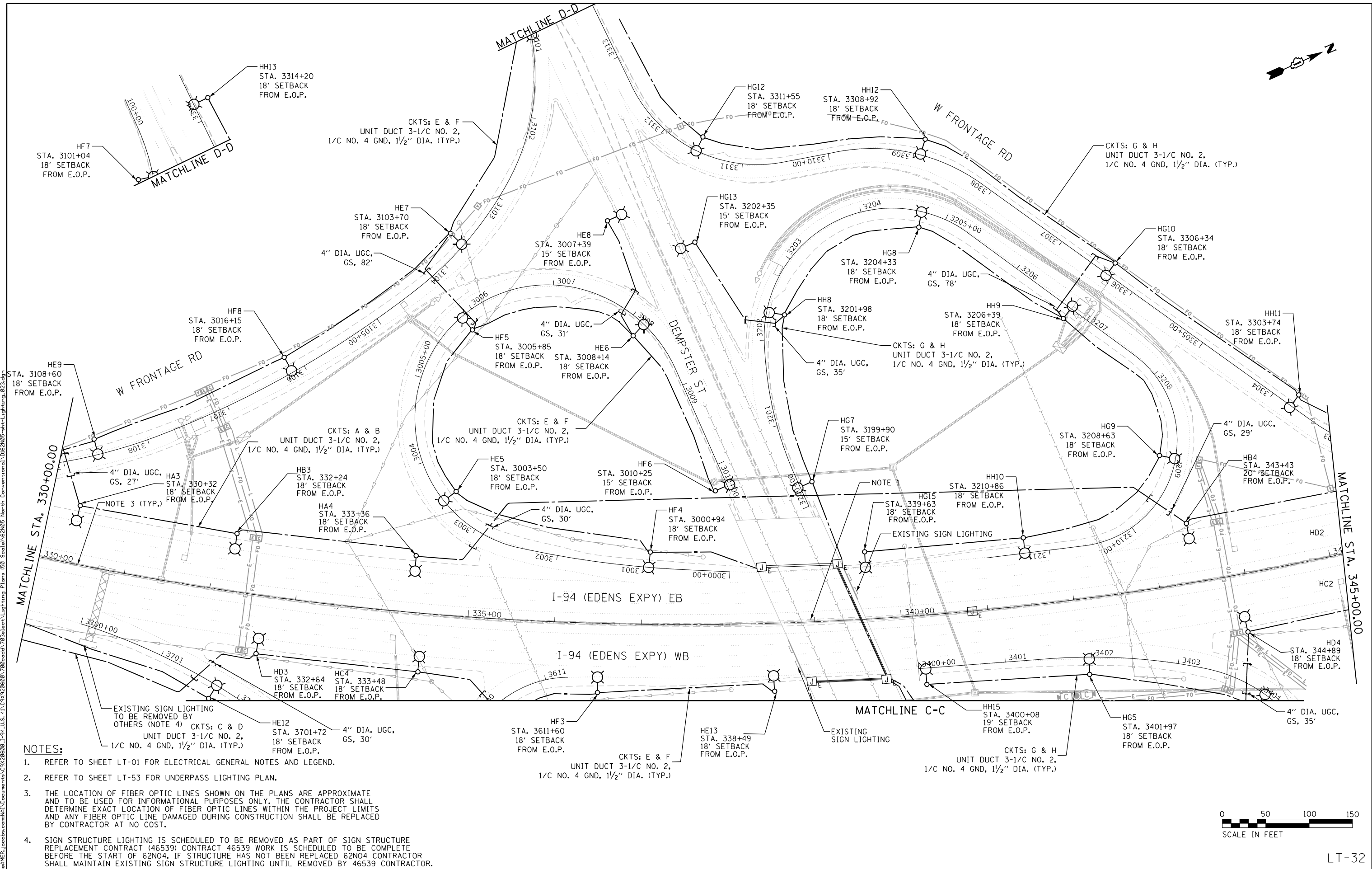
USER NAME = korabmp	DESIGNED - HP	REVISED -
	DRAWN - MPK	REVISED -
PLOT SCALE =	CHECKED - RAS	REVISED -
PLOT DATE = 8/12/2022	DATE - 10/16/2020	REVISED -

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

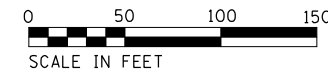
**I-94 /US 41 SMART HIGHWAY**  
**I-94 LIGHTING PLANS**  
 SCALE: 1" = 50' SHEET 31 OF 86 SHEETS STA. 315+00 TO STA. 330+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2020-236-L	COOK/LAKE	173	112
CONTRACT NO. 62N05			ILLINOIS FED. AID PROJECT	





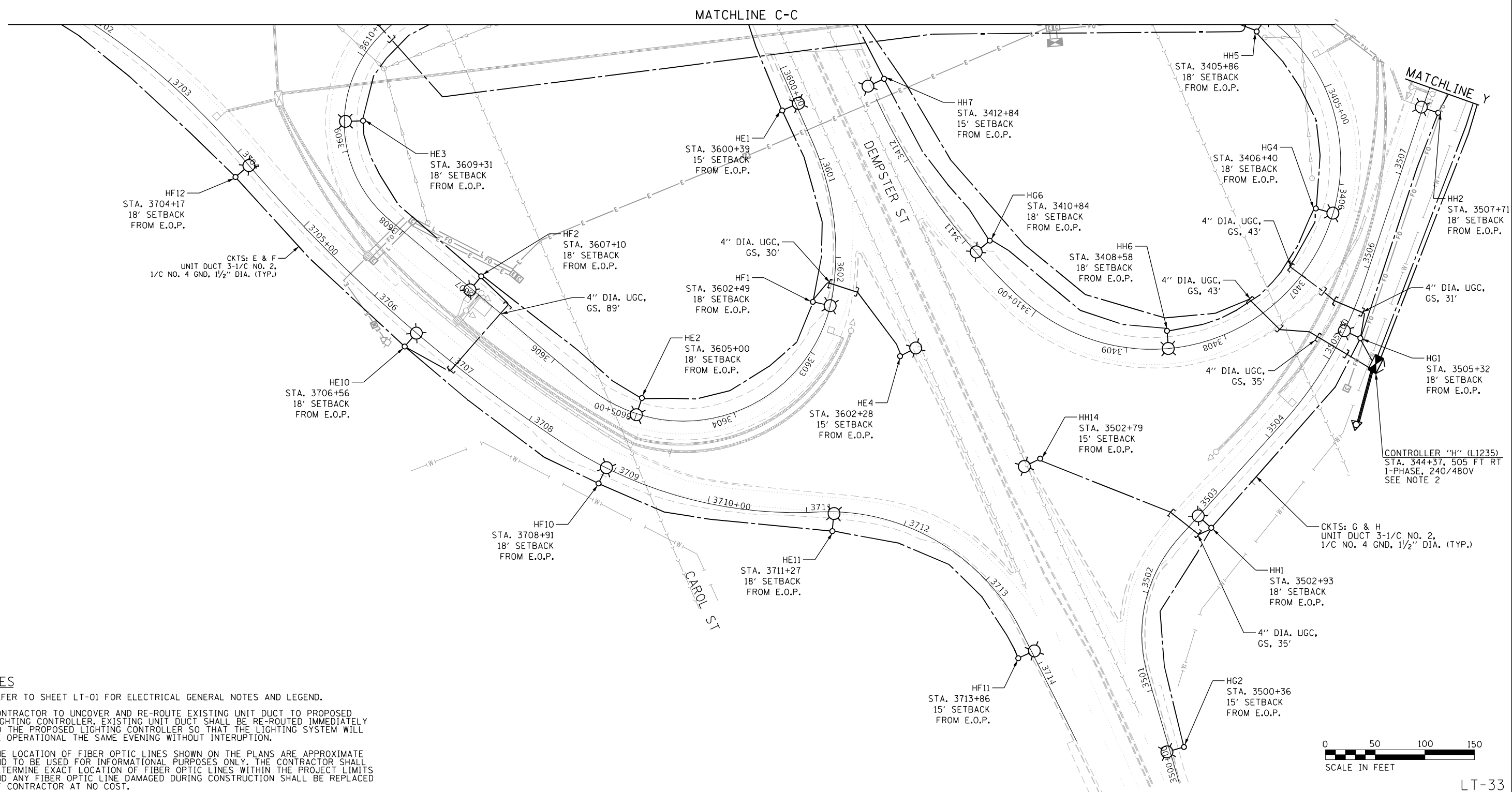
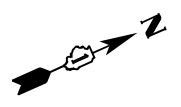
- NOTES:**
- REFER TO SHEET LT-01 FOR ELECTRICAL GENERAL NOTES AND LEGEND.
  - REFER TO SHEET LT-53 FOR UNDERPASS LIGHTING PLAN.
  - THE LOCATION OF FIBER OPTIC LINES SHOWN ON THE PLANS ARE APPROXIMATE AND TO BE USED FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR SHALL DETERMINE EXACT LOCATION OF FIBER OPTIC LINES WITHIN THE PROJECT LIMITS AND ANY FIBER OPTIC LINE DAMAGED DURING CONSTRUCTION SHALL BE REPLACED BY CONTRACTOR AT NO COST.
  - SIGN STRUCTURE LIGHTING IS SCHEDULED TO BE REMOVED AS PART OF SIGN STRUCTURE REPLACEMENT CONTRACT (46539) CONTRACT 46539 WORK IS SCHEDULED TO BE COMPLETE BEFORE THE START OF 62N04. IF STRUCTURE HAS NOT BEEN REPLACED 62N04 CONTRACTOR SHALL MAINTAIN EXISTING SIGN STRUCTURE LIGHTING UNTIL REMOVED BY 46539 CONTRACTOR.



LT-32

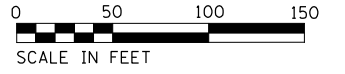
	USER NAME = korabmp	DESIGNED - HP	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>I-94 /US 41 SMART HIGHWAY</b> <b>I-94 LIGHTING PLANS</b>	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE =	CHECKED - RAS	REVISED -			94	2020-236-L	COOK/LAKE	173	113
	PLOT DATE = 8/12/2022	DATE - 10/16/2020	REVISED -			CONTRACT NO. 62N05			ILLINOIS FED. AID PROJECT	

SCALE: 1" = 50' SHEET 32 OF 86 SHEETS STA. 330+00 TO STA. 345+00



**NOTES**

1. REFER TO SHEET LT-01 FOR ELECTRICAL GENERAL NOTES AND LEGEND.
2. CONTRACTOR TO UNCOVER AND RE-ROUTE EXISTING UNIT DUCT TO PROPOSED LIGHTING CONTROLLER. EXISTING UNIT DUCT SHALL BE RE-ROUTED IMMEDIATELY TO THE PROPOSED LIGHTING CONTROLLER SO THAT THE LIGHTING SYSTEM WILL BE OPERATIONAL THE SAME EVENING WITHOUT INTERRUPTION.
3. THE LOCATION OF FIBER OPTIC LINES SHOWN ON THE PLANS ARE APPROXIMATE AND TO BE USED FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR SHALL DETERMINE EXACT LOCATION OF FIBER OPTIC LINES WITHIN THE PROJECT LIMITS AND ANY FIBER OPTIC LINE DAMAGED DURING CONSTRUCTION SHALL BE REPLACED BY CONTRACTOR AT NO COST.



LT-33



USER NAME = korabmp	DESIGNED - HP	REVISED -
PLOT SCALE =	DRAWN - MPK	REVISED -
PLOT DATE = 8/12/2022	CHECKED - RAS	REVISED -
	DATE - 10/16/2020	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**I-94 /US 41 SMART HIGHWAY  
I-94 LIGHTING PLANS**

SCALE: 1" = 50' SHEET 33 OF 86 SHEETS STA. TO STA.

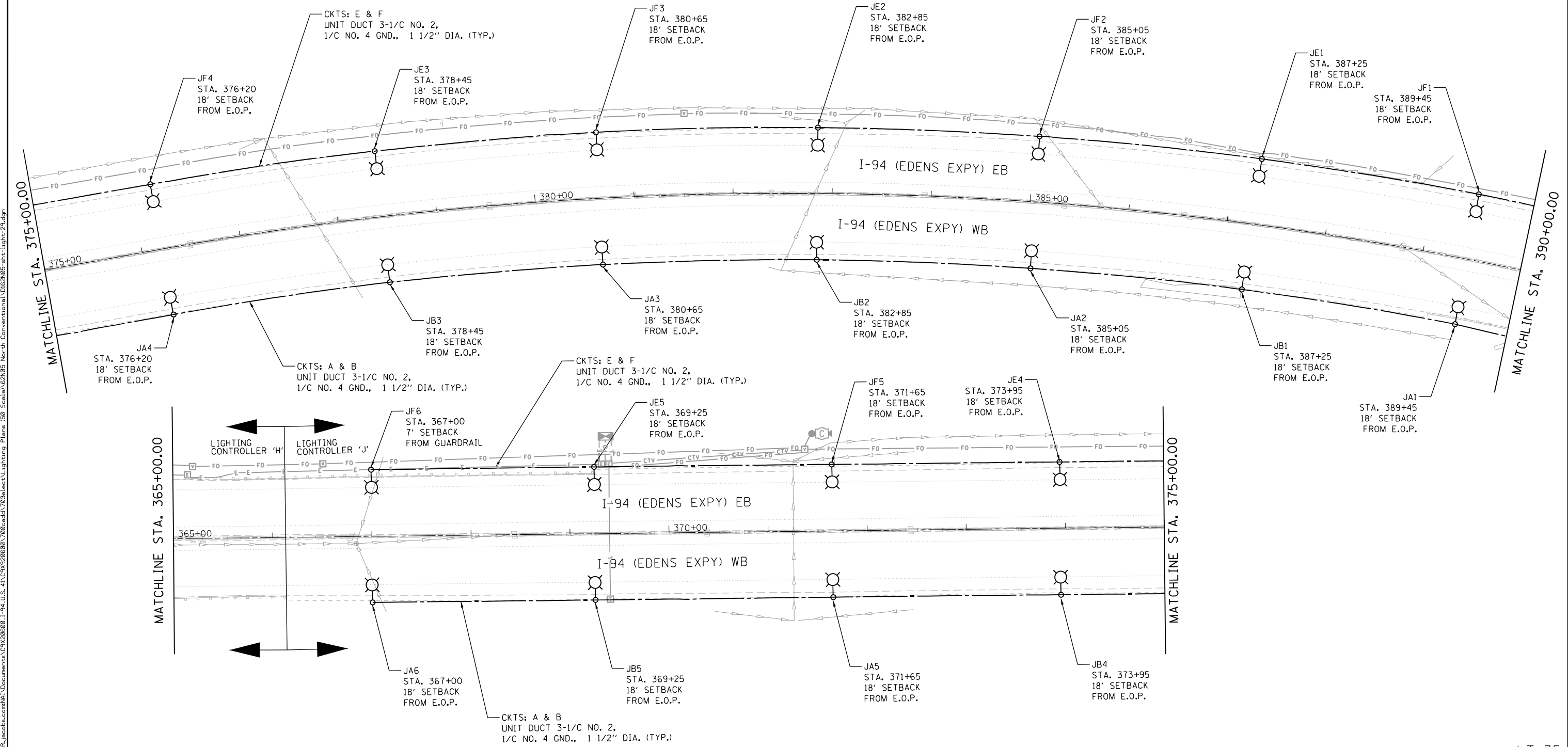
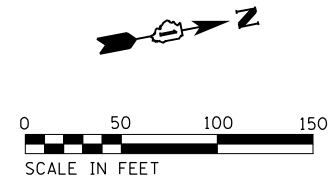
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2020-236-L	COOK/LAKE	173	114
CONTRACT NO. 62N05				
ILLINOIS FED. AID PROJECT				

C:\Projects\I-94\SmartHighway\I-94\US41\Lighting\Lighting Plans (50 Scale)\62N05 North Conventional\0162N05-ht-Lighting\_023A.dgn  
 C:\Projects\I-94\SmartHighway\I-94\US41\Lighting\Lighting Plans (50 Scale)\62N05 North Conventional\0162N05-ht-Lighting\_023A.dgn



**NOTES:**

1. REFER TO SHEET LT-01 FOR ELECTRICAL GENERAL NOTES AND LEGEND.
2. THE LOCATION OF FIBER OPTIC LINES SHOWN ON THE PLANS ARE APPROXIMATE AND TO BE USED FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR SHALL DETERMINE EXACT LOCATION OF FIBER OPTIC LINES WITHIN THE PROJECT LIMITS AND ANY FIBER OPTIC LINE DAMAGED DURING CONSTRUCTION SHALL BE REPLACED BY CONTRACTOR AT NO COST.



C:\Projects\I-94\I-94\2020\2020-236-L\Lighting Plans (50 Scale)\62N05 North Conventional\0162N05-ht-light-2.dgn

LT-35

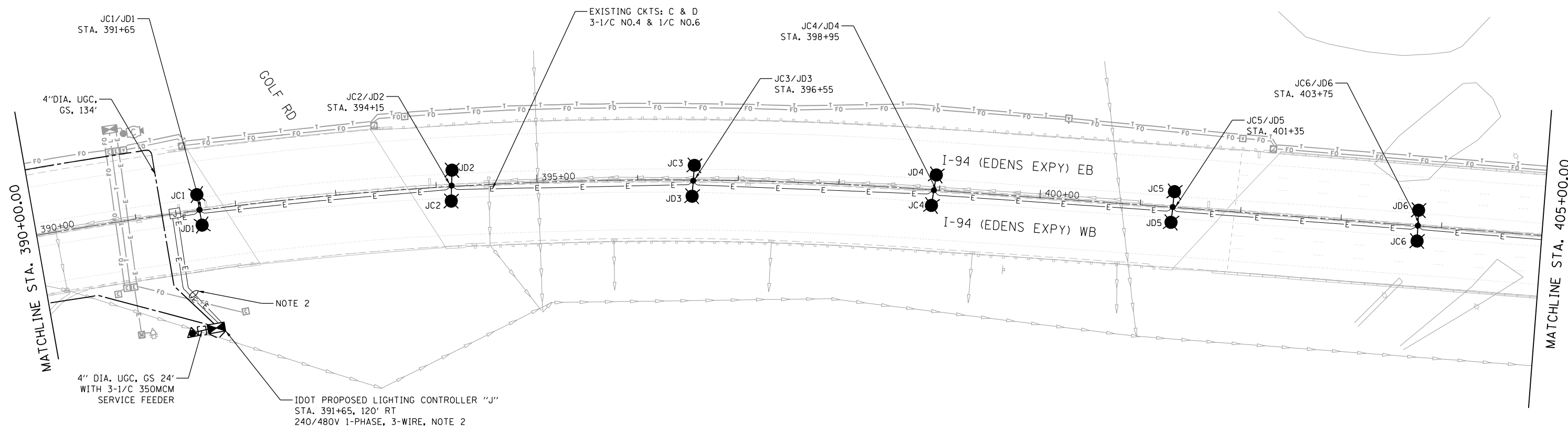
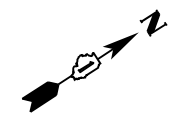


USER NAME = korabmp	DESIGNED - VN	REVISED -
PLOT SCALE =	DRAWN - VN	REVISED -
PLOT DATE = 8/12/2022	CHECKED - RP/MG	REVISED -
	DATE - 7/1/2022	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**I-94 / US 41 SMART HIGHWAY**  
**I-94 LIGHTING PLANS**  
 SCALE: 1" = 50' SHEET 35 OF 86 SHEETS STA. 365+00 TO STA. 390+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2020-236-L	COOK/LAKE	173	116
CONTRACT NO. 62N05				
ILLINOIS FED. AID PROJECT				



**NOTES:**

1. REFER TO SHEET LT-01 FOR ELECTRICAL GENERAL NOTES AND LEGEND.
2. CONTRACTOR TO UNCOVER AND RE-ROUTE EXISTING UNIT DUCT TO PROPOSED LIGHTING CONTROLLER. EXISTING UNIT DUCT SHALL BE RE-ROUTED IMMEDIATELY TO THE PROPOSED LIGHTING CONTROLLER SO THAT THE LIGHTING SYSTEM WILL BE OPERATIONAL THE SAME EVENING WITHOUT INTERRUPTION.
3. THE EXISTING CONDUIT EMBEDDED IN MEDIAN BARRIER WALL IS MADE OF CELLULOSE AND IS EASILY BREAKABLE AND COLLAPSIBLE. EXISTING CABLES CANNOT BE REMOVED. THE CONTRACTOR UNDER ANY CIRCUMSTANCE SHALL NOT REMOVE OR DAMAGE THE EXISTING CABLES EMBEDDED IN THE BARRIER WALL. IT WILL COLLAPSE THE CELLULOSE DUCT. THE CONTRACTOR SHALL TAKE PROPER MEASURE NOT TO DAMAGE THE EXISTING CABLES COMING OUT OF EXISTING MEDIAN BARRIER WALL FOUNDATIONS.
4. EXISTING LIGHT POLES JC1/JD1 TO JC12/JD12 ON CENTER MEDAIN BARRIER SHALL REMAIN. EXISTING RIVETED ARMS TO BE REMOVED, NO SALVAGE. EXISTING HPS LUMINAIRES TO BE REMOVED AND SALVAGED. EXISTING POLE WIRES TO BE REMOVED NO SALVAGE. INSTALL NEW POLE WIRES AND FUSE KITS; (RED, WHITE, GREEN ON CIRCUIT C AND BLACK, WHITE, GREEN ON CIRCUIT D). INSTALL NEW LED LUMINAIRES AND LUMINAIRE SAFETY CABLE ASSEMBLIES.
5. THE LOCATION OF FIBER OPTIC LINES SHOWN ON THE PLANS ARE APPROXIMATE AND TO BE USED FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR SHALL DETERMINE EXACT LOCATION OF FIBER OPTIC LINES WITHIN THE PROJECT LIMITS AND ANY FIBER OPTIC LINE DAMAGED DURING CONSTRUCTION SHALL BE REPLACED BY CONTRACTOR AT NO COST.

LT-36



USER NAME = korabmp	DESIGNED - VN	REVISED -
	DRAWN - VN	REVISED -
PLOT SCALE =	CHECKED - RP/MG	REVISED -
PLOT DATE = 8/12/2022	DATE - 7/1/2022	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**I-94 /US 41 SMART HIGHWAY  
I-94 LIGHTING PLANS**

SCALE: 1" = 50' SHEET 36 OF 86 SHEETS STA. 390+00 TO STA. 405+00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2020-236-L	COOK/LAKE	173	117
CONTRACT NO. 62N05				
ILLINOIS FED. AID PROJECT				

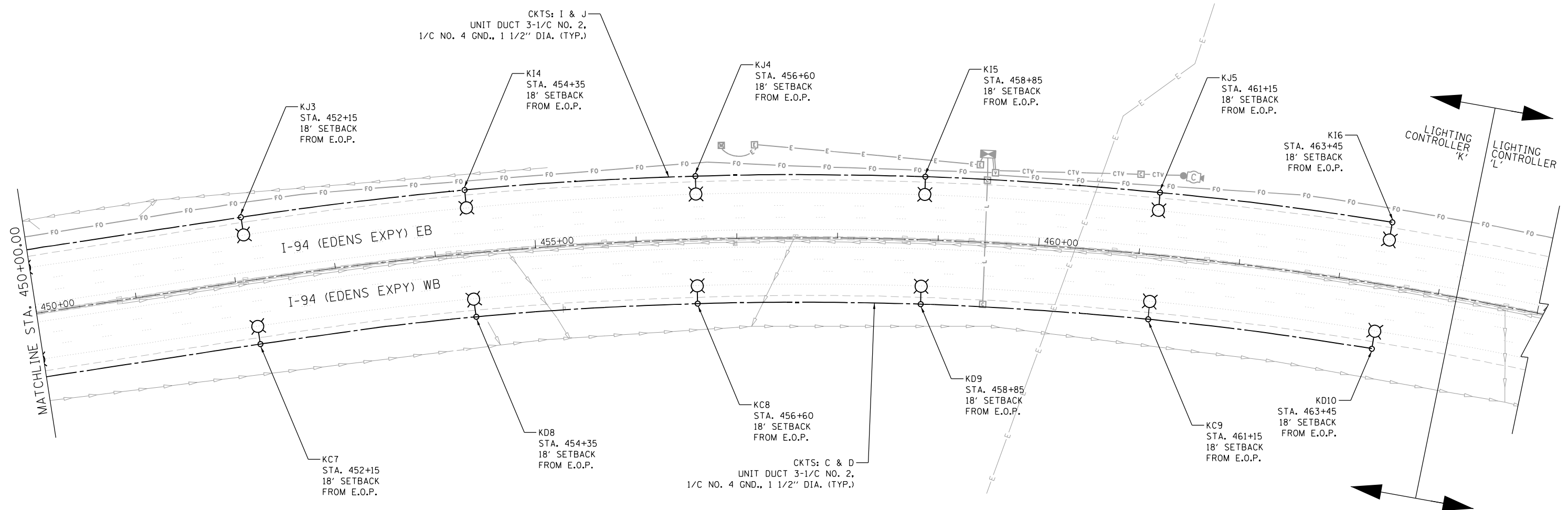












**NOTES:**

- REFER TO SHEET LT-01 FOR ELECTRICAL GENERAL NOTES AND LEGEND.
- THE LOCATION OF FIBER OPTIC LINES SHOWN ON THE PLANS ARE APPROXIMATE AND TO BE USED FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR SHALL DETERMINE EXACT LOCATION OF FIBER OPTIC LINES WITHIN THE PROJECT LIMITS AND ANY FIBER OPTIC LINE DAMAGED DURING CONSTRUCTION SHALL BE REPLACED BY CONTRACTOR AT NO COST.

LT-40



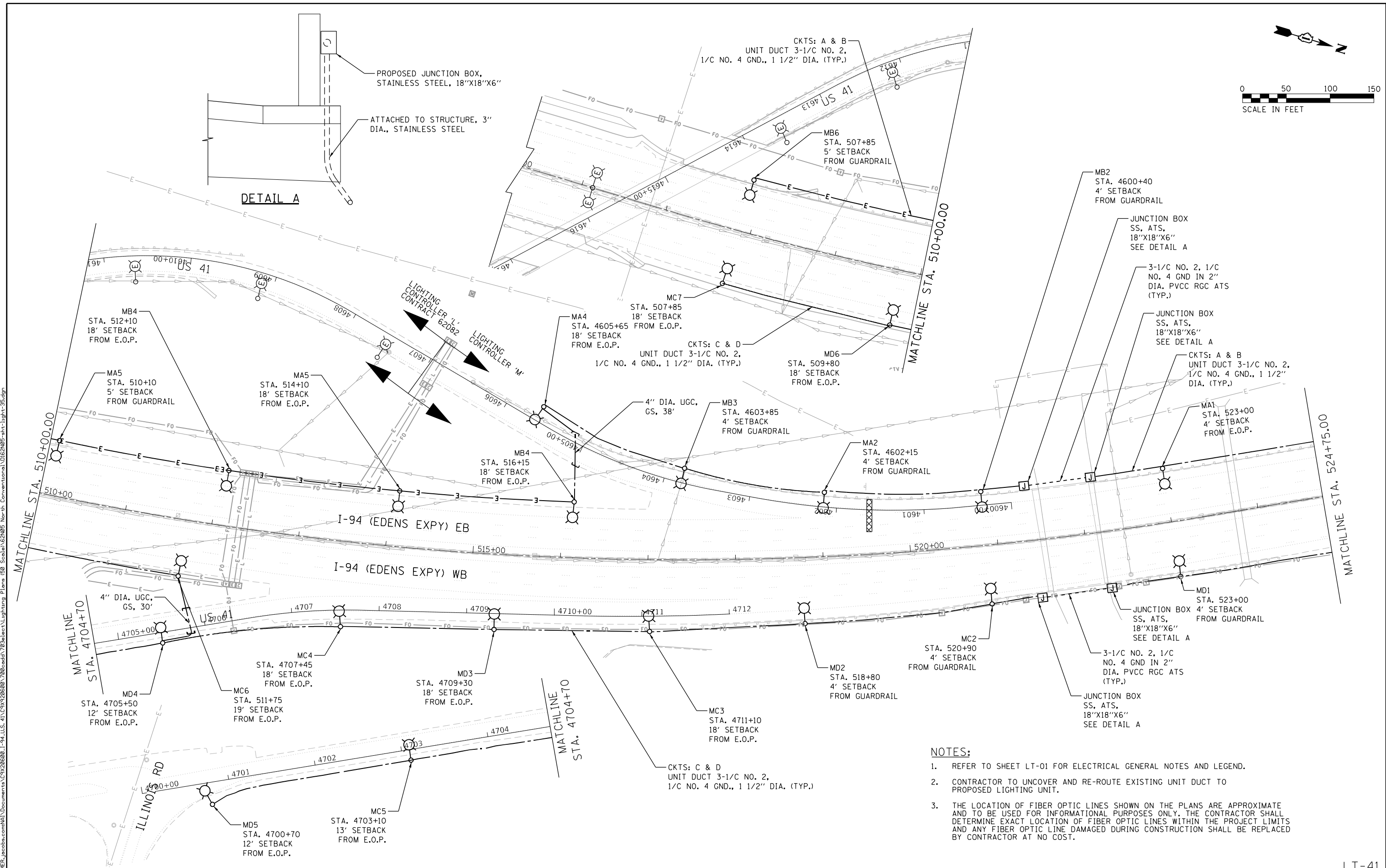
USER NAME = korabmp	DESIGNED - VN	REVISED -
	DRAWN - VN	REVISED -
PLOT SCALE =	CHECKED - RP/MG	REVISED -
PLOT DATE = 8/12/2022	DATE - 7/11/2022	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**I-94 /US 41 SMART HIGHWAY  
I-94 LIGHTING PLANS**

SCALE: 1" = 50' SHEET 40 OF 86 SHEETS STA. 450+00 TO STA. 465+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2020-236-L	COOK/LAKE	173	121
CONTRACT NO. 62N05				
ILLINOIS FED. AID PROJECT				



- NOTES:**
- REFER TO SHEET LT-01 FOR ELECTRICAL GENERAL NOTES AND LEGEND.
  - CONTRACTOR TO UNCOVER AND RE-ROUTE EXISTING UNIT DUCT TO PROPOSED LIGHTING UNIT.
  - THE LOCATION OF FIBER OPTIC LINES SHOWN ON THE PLANS ARE APPROXIMATE AND TO BE USED FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR SHALL DETERMINE EXACT LOCATION OF FIBER OPTIC LINES WITHIN THE PROJECT LIMITS AND ANY FIBER OPTIC LINE DAMAGED DURING CONSTRUCTION SHALL BE REPLACED BY CONTRACTOR AT NO COST.

C:\Users\korabmp\Documents\C9226688\_1-94\_ILS\_41\94226688\_720\add\720\select\Lighting Plans (50 Scale).dgn  
 I:\Projects\94226688\_1-94\_ILS\_41\94226688\_720\add\720\select\Lighting Plans (50 Scale).dgn  
 I:\Projects\94226688\_1-94\_ILS\_41\94226688\_720\add\720\select\Lighting Plans (50 Scale).dgn



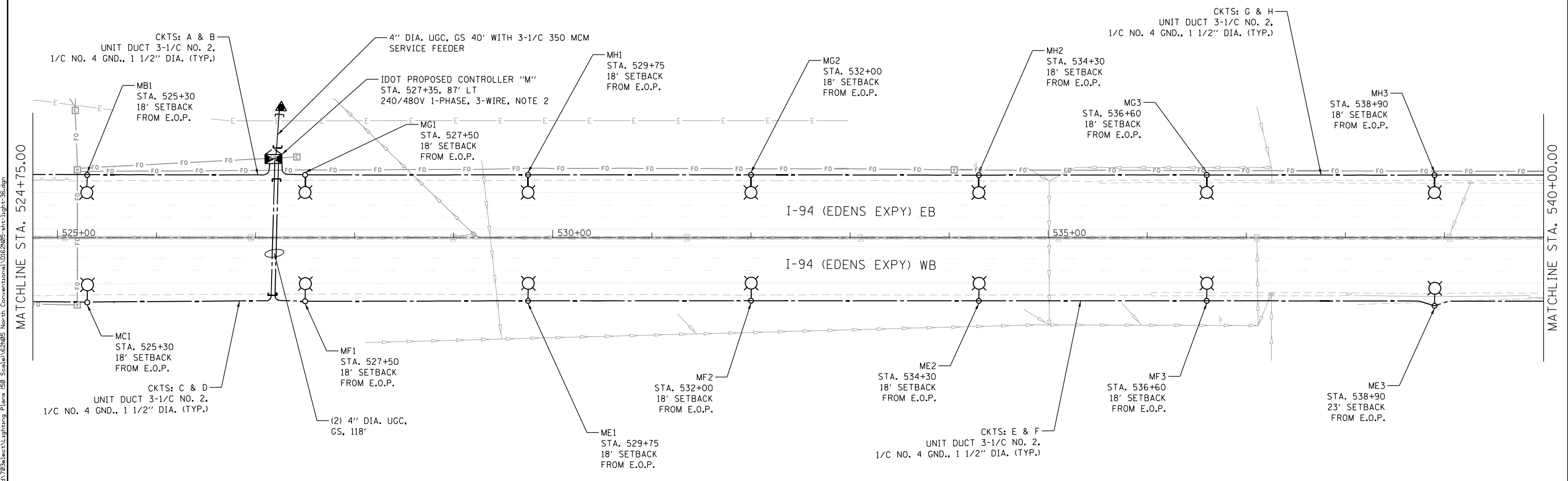
USER NAME = korabmp	DESIGNED - VN	REVISED -
PLOT SCALE =	DRAWN - VN	REVISED -
PLOT DATE = 8/12/2022	CHECKED - RP/MG	REVISED -
	DATE - 7/11/2022	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**I-94 /US 41 SMART HIGHWAY  
I-94 LIGHTING PLANS**

SCALE: 1" = 50' SHEET 41 OF 86 SHEETS STA. 508+00 TO STA. 524+75

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2020-236-L	COOK/LAKE	173	122
CONTRACT NO. 62N05				
ILLINOIS FED. AID PROJECT				



**NOTES:**

1. REFER TO SHEET LT-01 FOR ELECTRICAL GENERAL NOTES AND LEGEND.
2. THE LOCATION OF FIBER OPTIC LINES SHOWN ON THE PLANS ARE APPROXIMATE AND TO BE USED FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR SHALL DETERMINE EXACT LOCATION OF FIBER OPTIC LINES WITHIN THE PROJECT LIMITS AND ANY FIBER OPTIC LINE DAMAGED DURING CONSTRUCTION SHALL BE REPLACED BY CONTRACTOR AT NO COST.

LT-42



USER NAME = korabmp	DESIGNED - VN	REVISED -
DRAWN - VN	REVISIONS -	
PLOT SCALE =	CHECKED - RP/MG	REVISED -
PLOT DATE = 8/12/2022	DATE - 7/11/2022	REVISED -

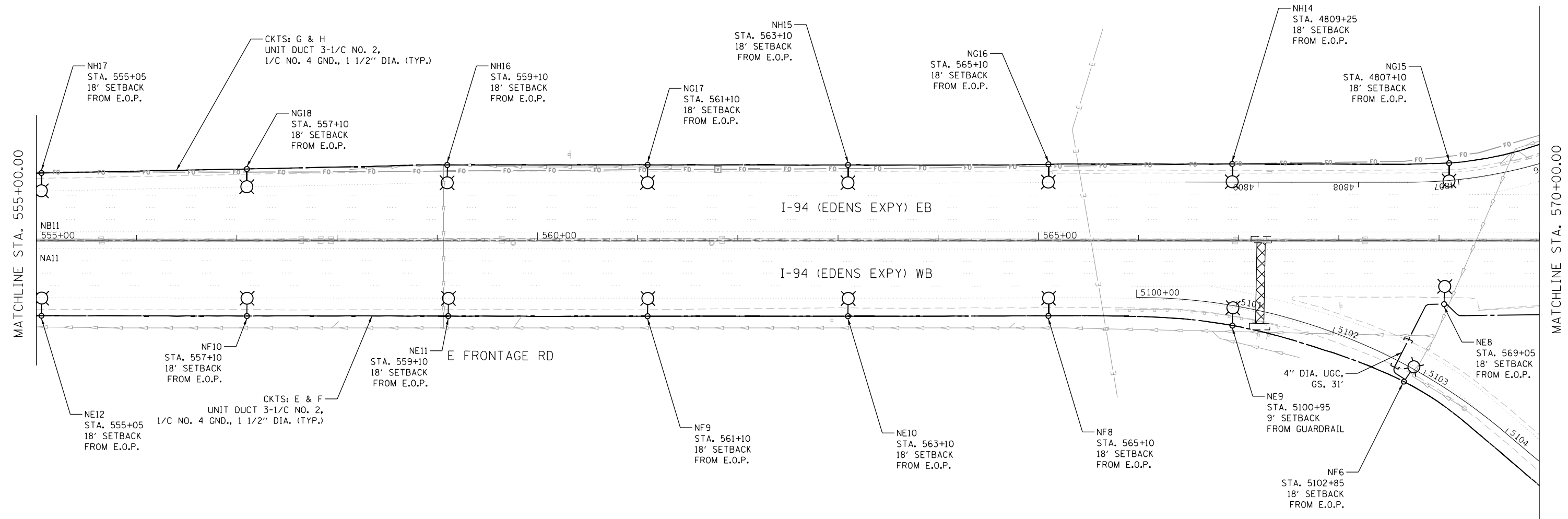
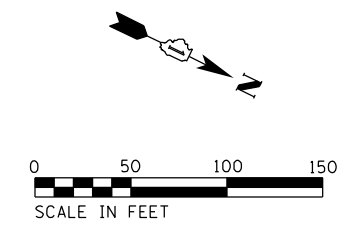
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**I-94 / US 41 SMART HIGHWAY  
I-94 LIGHTING PLANS**

SCALE: 1" = 50' SHEET 42 OF 86 SHEETS STA. 524+75 TO STA. 540+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2020-236-L	COOK/LAKE	173	123
CONTRACT NO. 62N05				
ILLINOIS FED. AID PROJECT				





**NOTES**

1. REFER TO SHEET LT-01 FOR ELECTRICAL GENERAL NOTES AND LEGEND.
2. THE LOCATION OF FIBER OPTIC LINES SHOWN ON THE PLANS ARE APPROXIMATE AND TO BE USED FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR SHALL DETERMINE EXACT LOCATION OF FIBER OPTIC LINES WITHIN THE PROJECT LIMITS AND ANY FIBER OPTIC LINE DAMAGED DURING CONSTRUCTION SHALL BE REPLACED BY CONTRACTOR AT NO COST.

LT-44



USER NAME = korabmp	DESIGNED - VN	REVISED -
	DRAWN - VN	REVISED -
PLOT SCALE =	CHECKED - RP/MG	REVISED -
PLOT DATE = 8/12/2022	DATE - 7/11/2022	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**I-94 /US 41 SMART HIGHWAY  
I-94 LIGHTING PLANS**

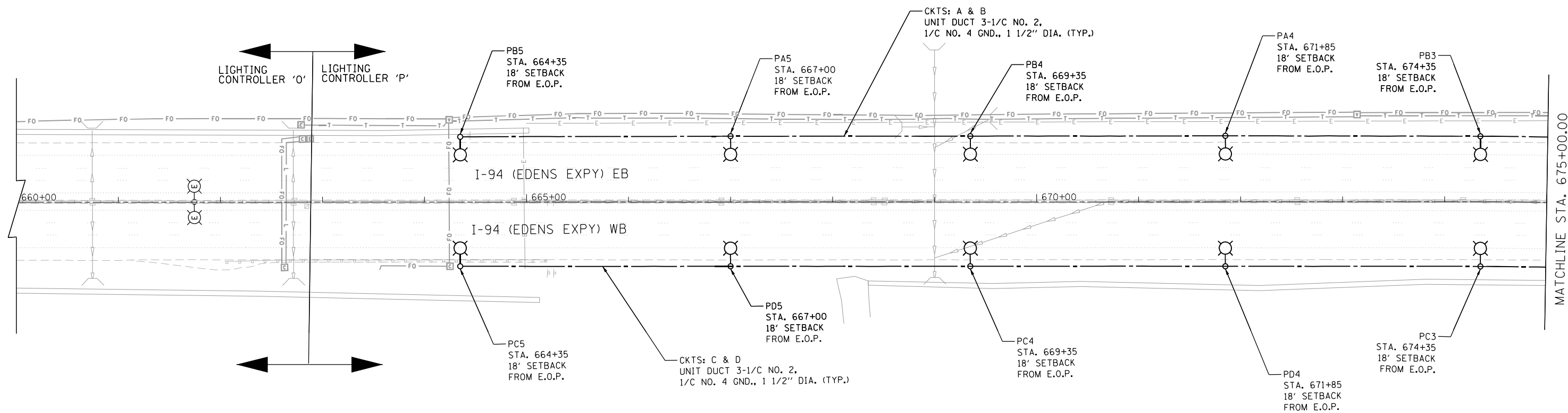
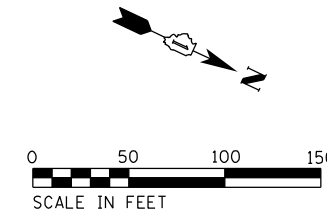
SCALE: 1" = 50' SHEET 44 OF 86 SHEETS STA. 555+00 TO STA. 570+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2020-236-L	COOK/LAKE	173	125
CONTRACT NO. 62N05				
ILLINOIS FED. AID PROJECT				

c:\projects\user\ER\_jacob\camb\10\Documents\C9226688\_1-94\_ILS\_41\C9226688\_726\cadd\726\select\lighting\Plans (50 Scale)\62N05 North Conventional\01626688-ht-light-38.dgn







**NOTES**

1. REFER TO SHEET LT-01 FOR ELECTRICAL GENERAL NOTES AND LEGEND.
2. THE LOCATION OF FIBER OPTIC LINES SHOWN ON THE PLANS ARE APPROXIMATE AND TO BE USED FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR SHALL DETERMINE EXACT LOCATION OF FIBER OPTIC LINES WITHIN THE PROJECT LIMITS AND ANY FIBER OPTIC LINE DAMAGED DURING CONSTRUCTION SHALL BE REPLACED BY CONTRACTOR AT NO COST.

LT-47



USER NAME = korabmp	DESIGNED - VN	REVISED -
	DRAWN - VN	REVISED -
PLOT SCALE =	CHECKED - RP/MG	REVISED -
PLOT DATE = 8/12/2022	DATE - 7/11/2022	REVISED -

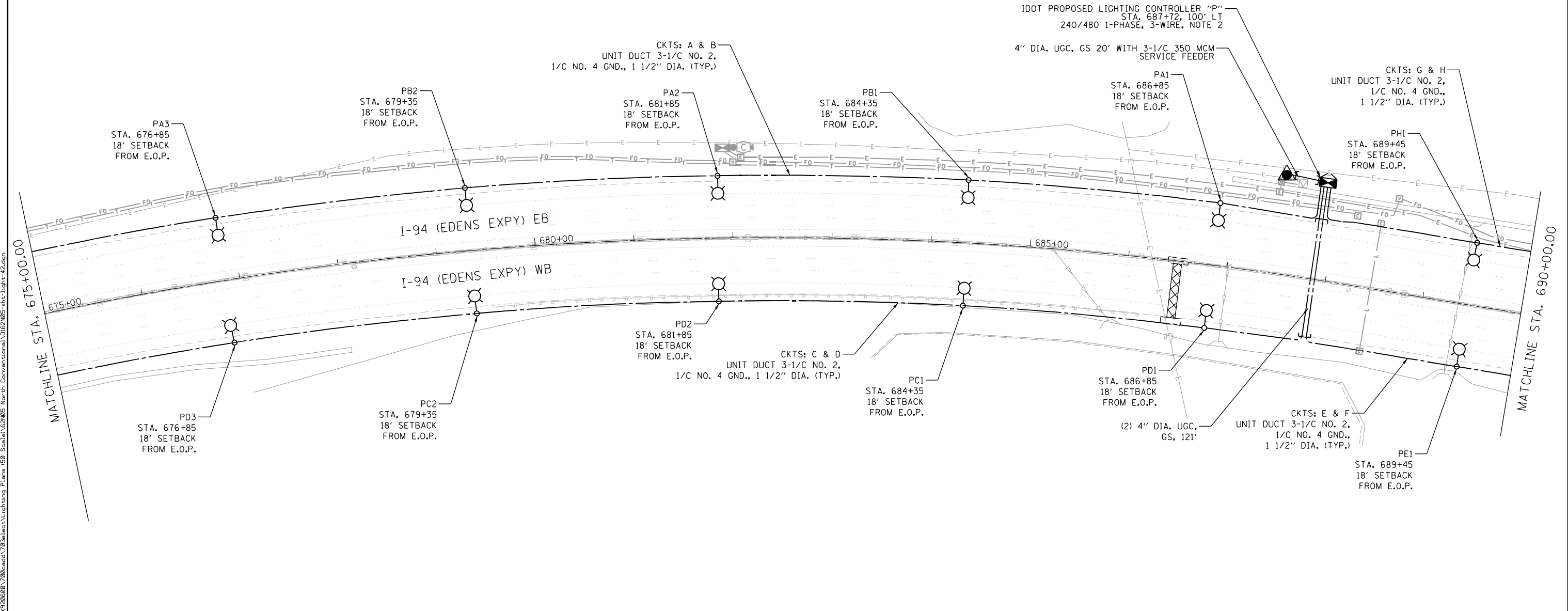
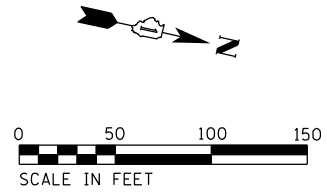
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**I-94 /US 41 SMART HIGHWAY  
I-94 LIGHTING PLANS**

SCALE: 1" = 50' SHEET 47 OF 86 SHEETS STA. 660+00 TO STA. 675+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2020-236-L	COOK/LAKE	173	128
CONTRACT NO. 62N05				
ILLINOIS FED. AID PROJECT				





- NOTES**
- REFER TO SHEET LT-01 FOR ELECTRICAL GENERAL NOTES AND LEGEND.
  - THE LOCATION OF FIBER OPTIC LINES SHOWN ON THE PLANS ARE APPROXIMATE AND TO BE USED FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR SHALL DETERMINE EXACT LOCATION OF FIBER OPTIC LINES WITHIN THE PROJECT LIMITS AND ANY FIBER OPTIC LINE DAMAGED DURING CONSTRUCTION SHALL BE REPLACED BY CONTRACTOR AT NO COST.

LT-48



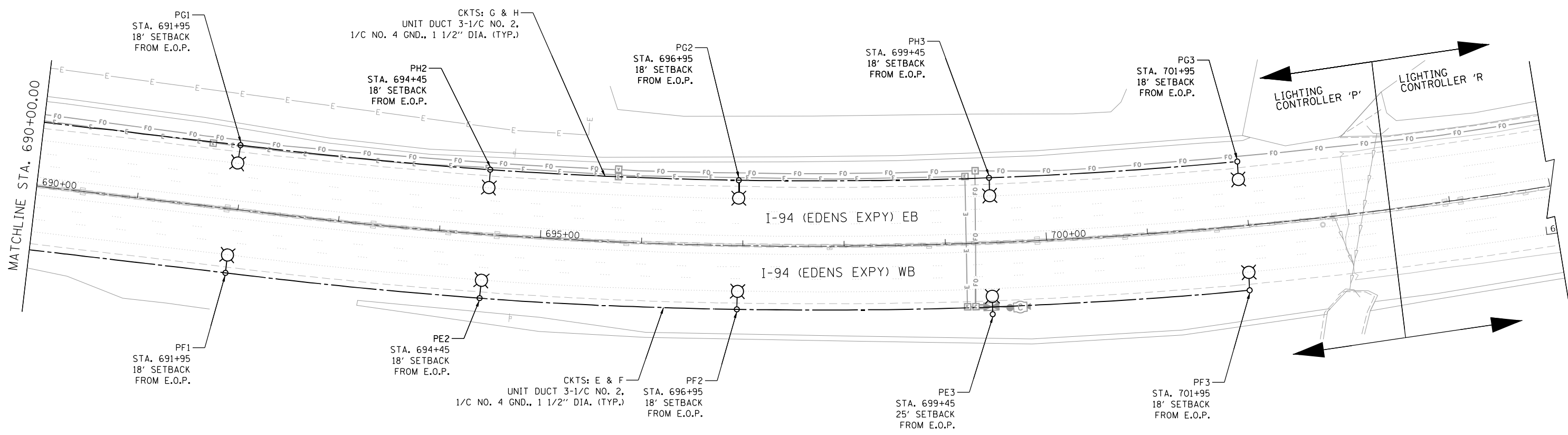
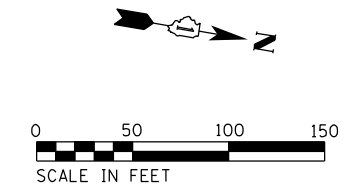
USER NAME = korabmp	DESIGNED - VN	REVISED -
	DRAWN - VN	REVISED -
PLOT SCALE =	CHECKED - RP/MG	REVISED -
PLOT DATE = 8/12/2022	DATE - 7/1/2022	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**I-94 /US 41 SMART HIGHWAY  
I-94 LIGHTING PLANS**

SCALE: 1" = 50' SHEET 48 OF 86 SHEETS STA. 675+00 TO STA. 690+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2020-236-L	COOK/LAKE	173	129
CONTRACT NO. 62N05				
ILLINOIS FED. AID PROJECT				



**NOTES**

1. REFER TO SHEET LT-01 FOR ELECTRICAL GENERAL NOTES AND LEGEND.
2. THE LOCATION OF FIBER OPTIC LINES SHOWN ON THE PLANS ARE APPROXIMATE AND TO BE USED FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR SHALL DETERMINE EXACT LOCATION OF FIBER OPTIC LINES WITHIN THE PROJECT LIMITS AND ANY FIBER OPTIC LINE DAMAGED DURING CONSTRUCTION SHALL BE REPLACED BY CONTRACTOR AT NO COST.



USER NAME = korabmp	DESIGNED - VN	REVISED -
	DRAWN - VN	REVISED -
PLOT SCALE =	CHECKED - RP/MG	REVISED -
PLOT DATE = 8/12/2022	DATE - 7/11/2022	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

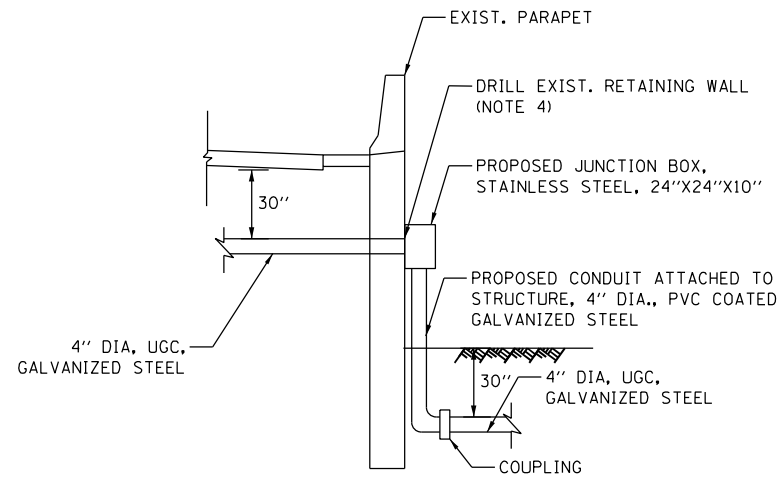
**I-94 /US 41 SMART HIGHWAY  
I-94 LIGHTING PLANS**

SCALE: 1" = 50' SHEET 49 OF 86 SHEETS STA. 690+00 TO STA. 705+00

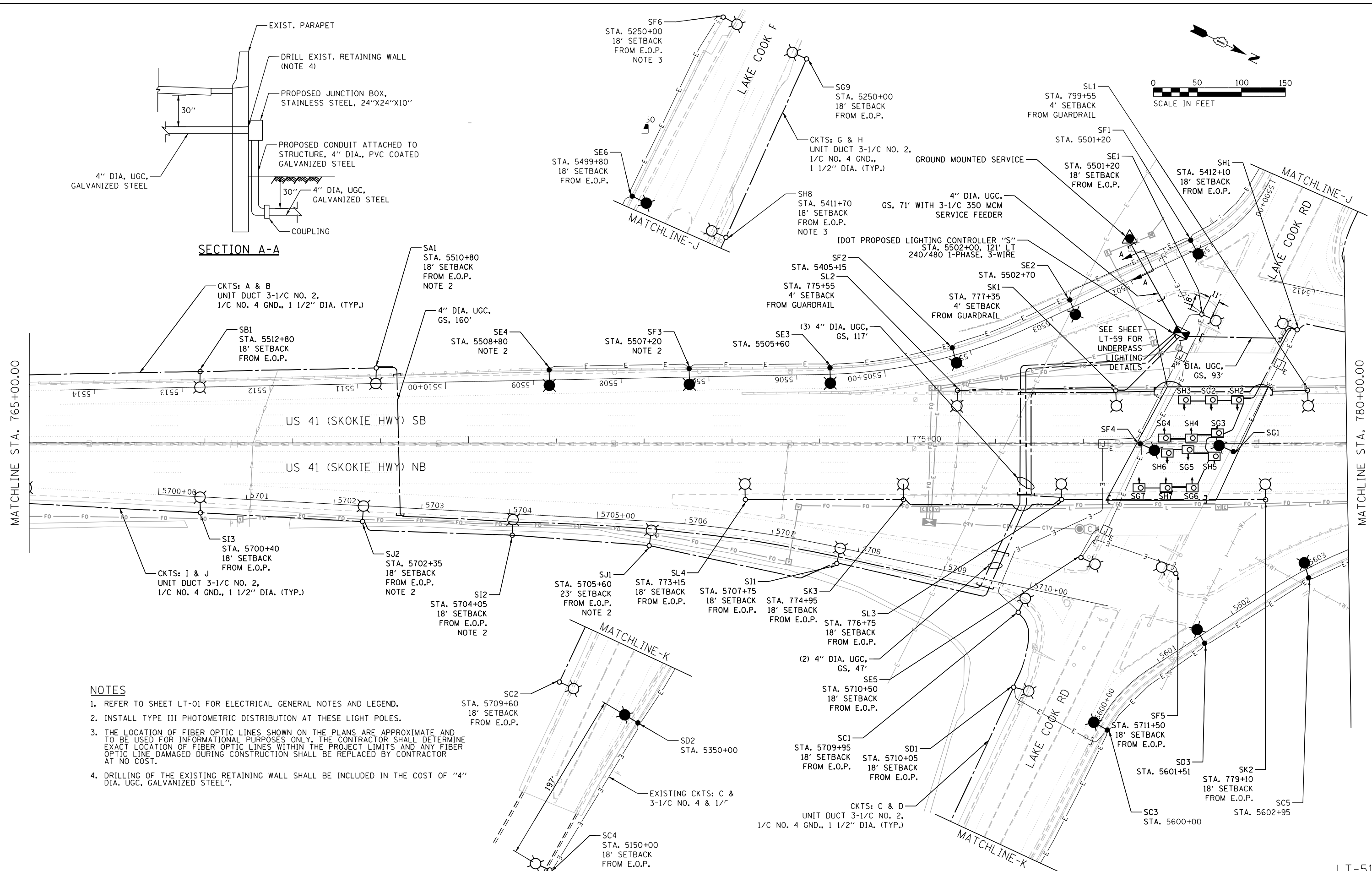
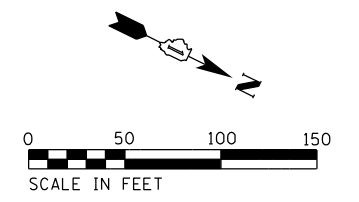
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2020-236-L	COOK/LAKE	173	130
CONTRACT NO. 62N05				
ILLINOIS FED. AID PROJECT				

C:\Users\korabmp\Documents\C9226688\_1-94\_IUS\_41\C9226688\_7206\cadd\703\select\Lighting Plans (50 Scale)\62N05-North Conventional\0162N05-nht-light-43.dgn





SECTION A-A



**NOTES**

1. REFER TO SHEET LT-01 FOR ELECTRICAL GENERAL NOTES AND LEGEND.
2. INSTALL TYPE III PHOTOMETRIC DISTRIBUTION AT THESE LIGHT POLES.
3. THE LOCATION OF FIBER OPTIC LINES SHOWN ON THE PLANS ARE APPROXIMATE AND TO BE USED FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR SHALL DETERMINE EXACT LOCATION OF FIBER OPTIC LINES WITHIN THE PROJECT LIMITS AND ANY FIBER OPTIC LINE DAMAGED DURING CONSTRUCTION SHALL BE REPLACED BY CONTRACTOR AT NO COST.
4. DRILLING OF THE EXISTING RETAINING WALL SHALL BE INCLUDED IN THE COST OF "4" DIA. UGC, GALVANIZED STEEL".

C:\Projects\I-94\I-94\US 41\Lighting\Lighting Plans (50 Scale)\62N05 North Conventional\01620605-ht-light-45.dgn  
 C:\Projects\I-94\I-94\US 41\Lighting\Lighting Plans (50 Scale)\62N05 North Conventional\01620605-ht-light-45.dgn



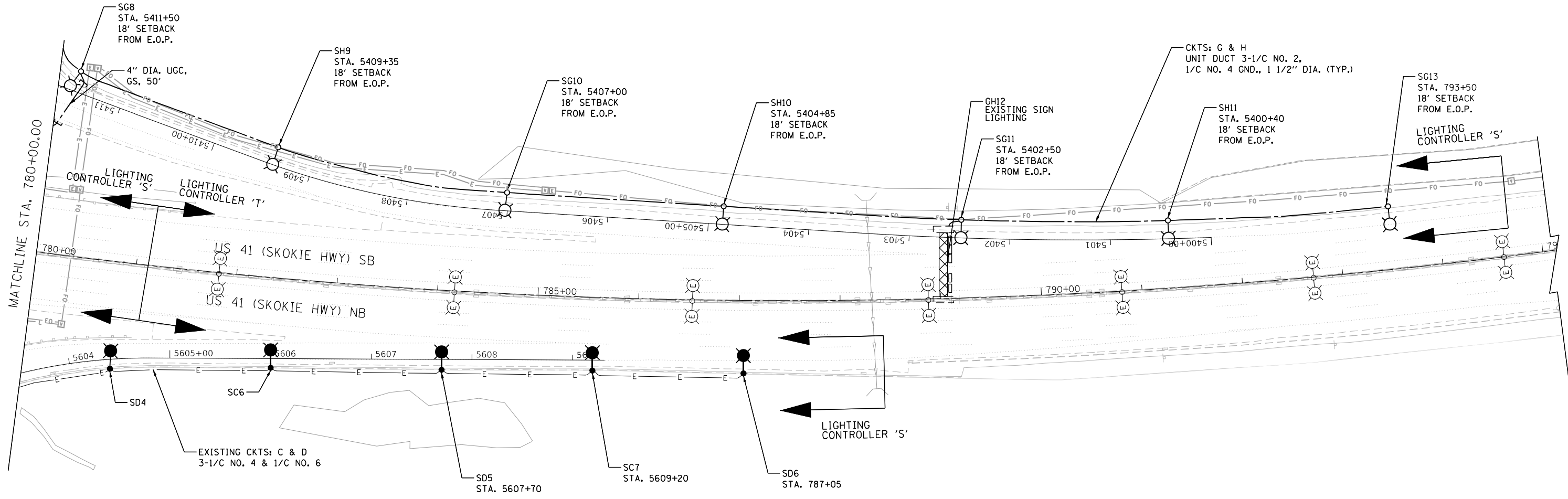
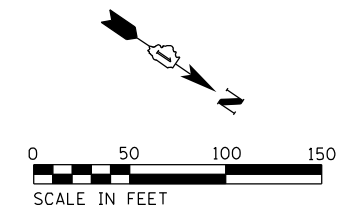
USER NAME = korabmp	DESIGNED - VN	REVISED -
PLOT SCALE =	DRAWN - VN	REVISED -
PLOT DATE = 8/12/2022	CHECKED - RP/MG	REVISED -
	DATE - 7/1/2022	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**I-94 /US 41 SMART HIGHWAY  
I-94 LIGHTING PLANS**

SCALE: 1" = 50' SHEET 51 OF 86 SHEETS STA. 765+00 TO STA. 780+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
US-41	2020-236-L	COOK/LAKE	173	132
CONTRACT NO. 62N05				
ILLINOIS FED. AID PROJECT				



- NOTES**
- REFER TO SHEET LT-01 FOR ELECTRICAL GENERAL NOTES AND LEGEND.
  - THE LOCATION OF FIBER OPTIC LINES SHOWN ON THE PLANS ARE APPROXIMATE AND TO BE USED FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR SHALL DETERMINE EXACT LOCATION OF FIBER OPTIC LINES WITHIN THE PROJECT LIMITS AND ANY FIBER OPTIC LINE DAMAGED DURING CONSTRUCTION SHALL BE REPLACED BY CONTRACTOR AT NO COST.

C:\Users\korabmp\Documents\C9226688\_1-94\_ILS\_41\CS9226688\_720\cadd\Lighting Plans (50 Scale)\62N05 North Conventional\016226688-ht-light-46.dgn

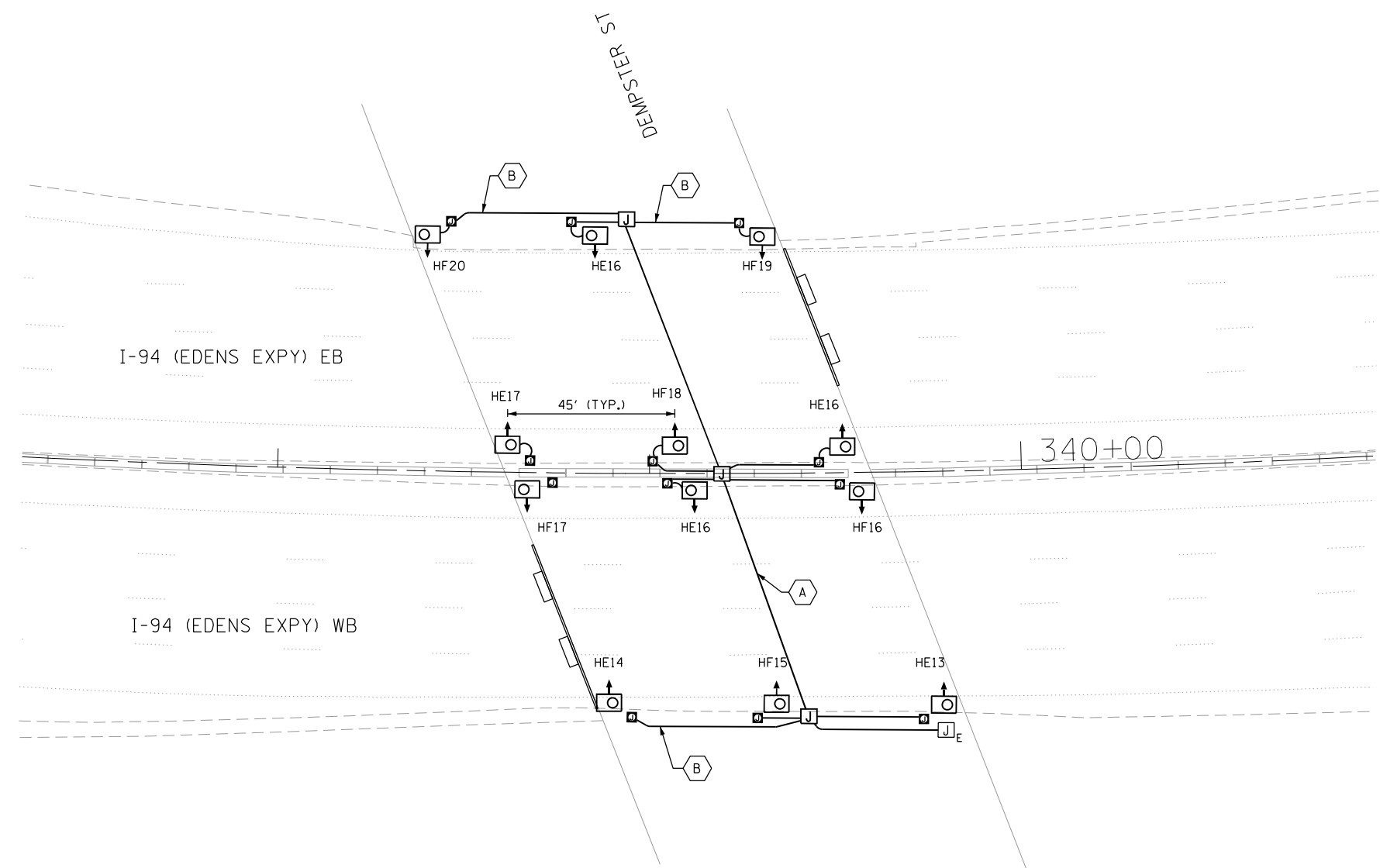
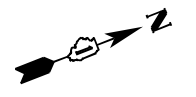


USER NAME = korabmp	DESIGNED - VN	REVISED -
DRAWN - VN	REVISED -	
PLOT SCALE =	CHECKED - RP/MG	REVISED -
PLOT DATE = 8/12/2022	DATE - 7/11/2022	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**I-94 /US 41 SMART HIGHWAY  
I-94 LIGHTING PLANS**  
 SCALE: 1" = 50' SHEET 52 OF 86 SHEETS STA. 780+00 TO STA. 795+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
US-41	2020-236-L	COOK/LAKE	173	133
CONTRACT NO. 62N05				
ILLINOIS FED. AID PROJECT				



**LEGEND**

- A 3-1/C NO.10 AND 1/C NO.10 GND IN 1" PVCC RGC
- B 2-1/C NO.10 AND 1/C NO.10 GND IN 1" PVCC RGC
- C 2-1/C NO.10 AND 1-1/C NO.10 GND IN 3/4" LIQUID-TIGHT FLEXIBLE CONDUIT
- D UNIT DUCT, 600V, 3-1/C NO. 2 1/C NO. 4, GND 1 1/2" DIA. (TYP)
- O LUMINAIRE, LED, UNDERPASS, SUSPENDED, OUTPUT DESIGNATION E (14.5-FT M.H.)
- J JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 6"X6"X4"
- J JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 10" X 6"
- JB JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 18" X 18" X 8"
- J EXISTING JUNCTION BOX



LT-53

p:\Projects\user\ER\_jacobs\comb\01\Documents\C9226680\_1-94\_ILS\_41\C9226680\_720\cadd\720\select\Lighting Plans (50 Scale)\E2N05 North Conventional\0162N05-nht-UFP-Dempster.dgn



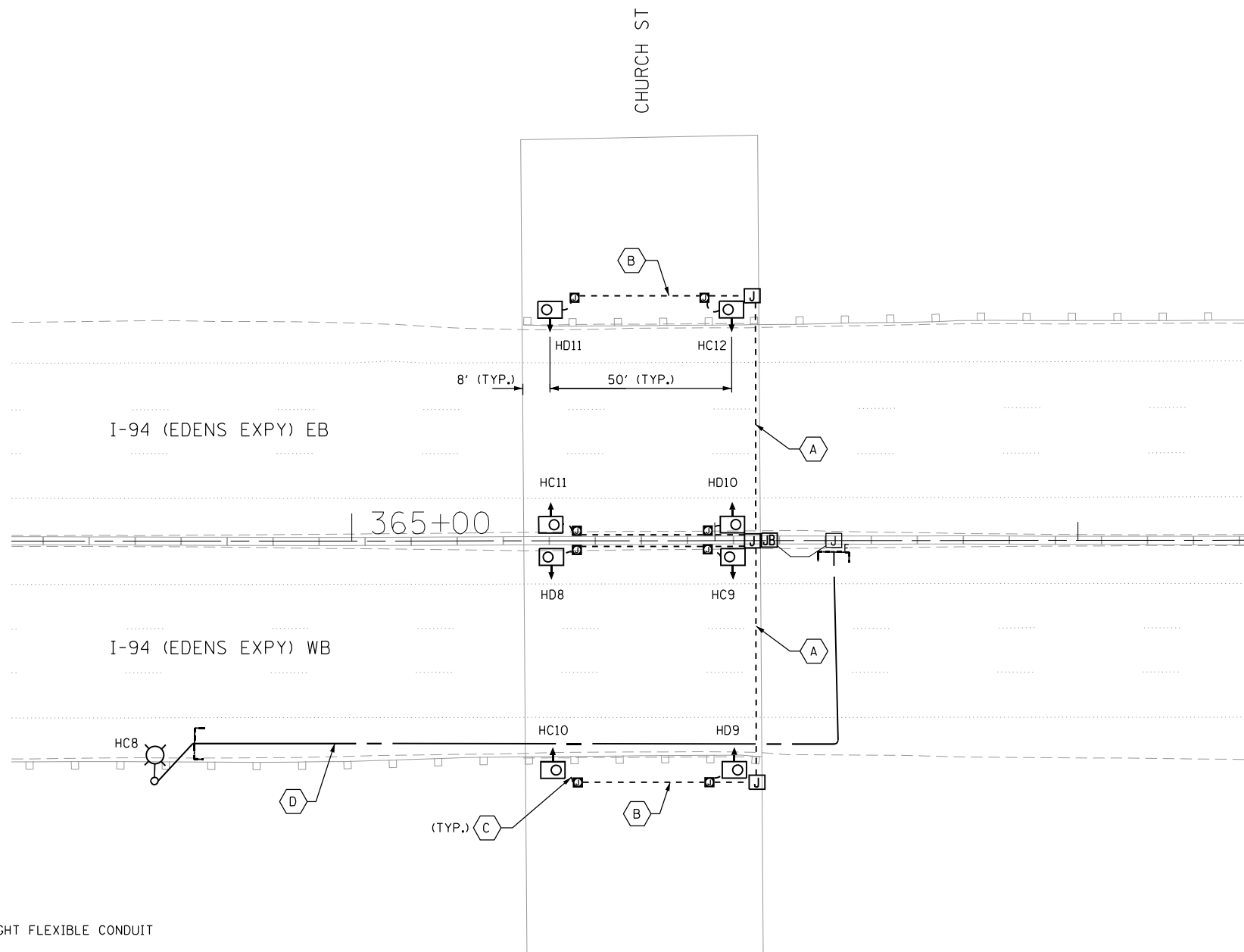
USER NAME = korabmp	DESIGNED - HP	REVISED -
	DRAWN - MG	REVISED -
PLOT SCALE =	CHECKED - RAS	REVISED -
PLOT DATE = 7/2/2022	DATE - 10/16/2020	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**I-94 UNDER DEMPSTER STREET  
UNDERPASS LIGHTING PLAN**

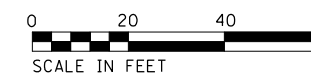
SCALE: 1" = 20' SHEET 53 OF 86 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2020-236-L	COOK/LAKE	173	134
CONTRACT NO. 62N05				
ILLINOIS FED. AID PROJECT				



**LEGEND**

- A 3-1/C NO.10 AND 1/C NO.10 GND IN 1" PVCC RGC
- B 2-1/C NO.10 AND 1/C NO.10 GND IN 1" PVCC RGC
- C 2-1/C NO.10 AND 1-1/C NO.10 GND IN 3/4" LIQUID-TIGHT FLEXIBLE CONDUIT
- D UNIT DUCT, 600V, 3-1/C NO. 2 1/C NO. 4, GND 1 1/2" DIA. (TYP)
- O LUMINAIRE, LED, UNDERPASS, SUSPENDED, OUTPUT DESIGNATION E (14.5-FT M.H.)
- JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 6"X6"X4"
- J JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 10" X 6"
- JB JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 18" X 18" X 8"
- J EXISTING JUNCTION BOX



LT-54



USER NAME = korabmp	DESIGNED - HP	REVISED -
	DRAWN - MG	REVISED -
PLOT SCALE =	CHECKED - RAS	REVISED -
PLOT DATE = 7/2/2022	DATE - 10/16/2020	REVISED -

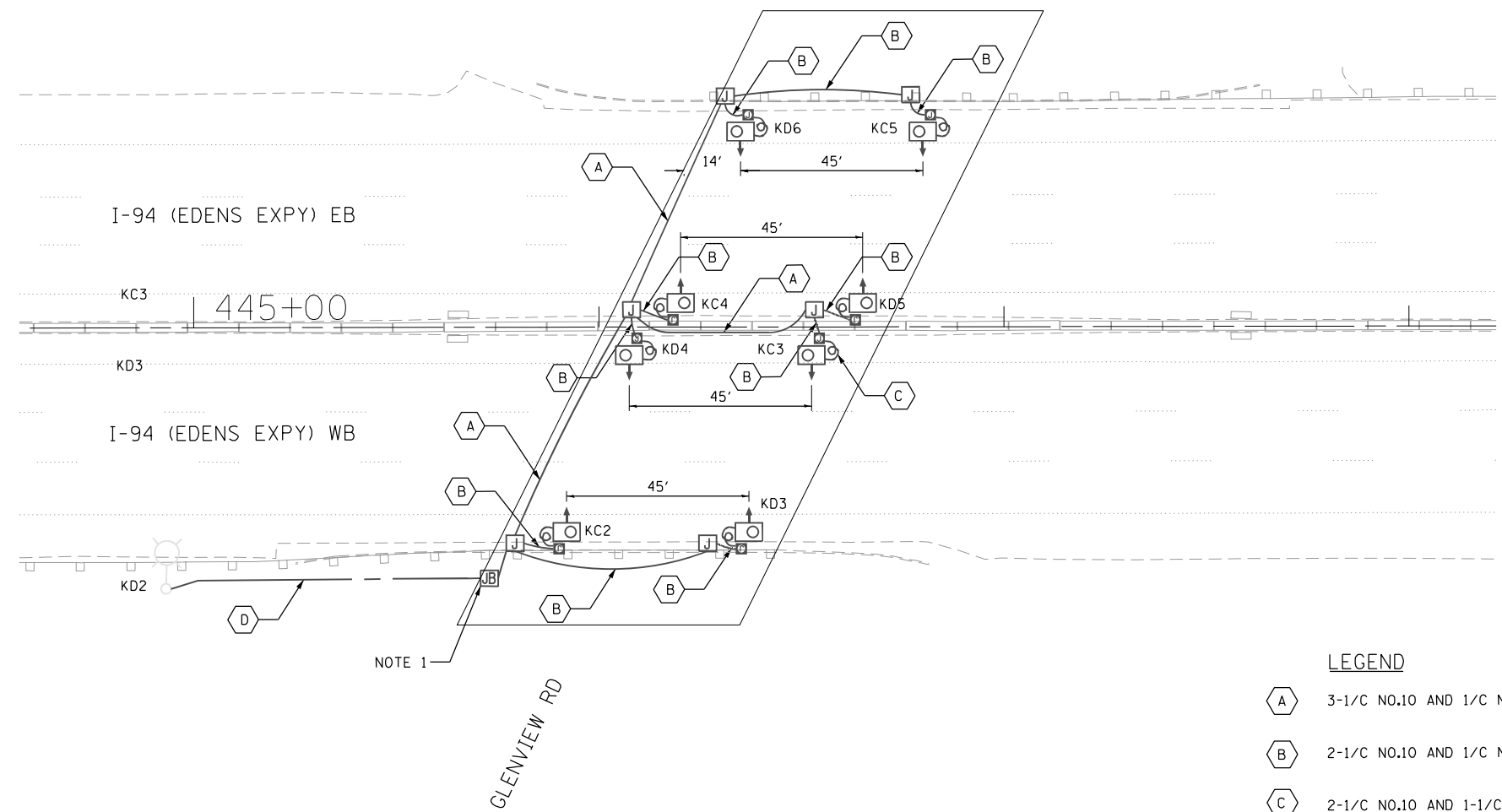
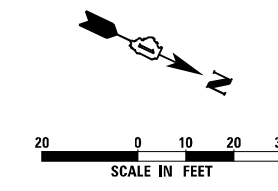
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**I-94 UNDER CHURCH STREET  
UNDERPASS LIGHTING PLAN**

SCALE: 1" = 20' SHEET 54 OF 86 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2020-236-L	COOK/LAKE	173	135
CONTRACT NO. 62N05				
ILLINOIS FED. AID PROJECT				

p:\Projects\user\ER\_jacobs\com\03\Documents\C9226688\_1-94\_ILS\_41\C9226688\_708\elect\Lighting Plans (50 Scale)\E2N05 North Conventional\062N05-nit-JPP-Church.dgn



**LEGEND**

- A 3-1/C NO.10 AND 1/C NO.10 GND IN 1" PVCC RGC
- B 2-1/C NO.10 AND 1/C NO.10 GND IN 1"PVCC RGC
- C 2-1/C NO.10 AND 1-1/C NO.10 GND IN 3/4" LIQUID-TIGHT FLEXIBLE CONDUIT
- D UNIT DUCT, 600V, 3-1/C NO. 2 1/C NO. 4, GND 1 1/2" DIA. (TYP)
- O LUMINAIRE, LED, UNDERPASS, SUSPENDED, OUTPUT DESIGNATION E (14.5-FT M.H.)
- J JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 6"X6"X4"
- J JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 10" X 6"
- JB JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 18" X 18" X 8"
- J<sub>E</sub> EXISTING JUNCTION BOX

**NOTES**

1. INSTALL FUSEHOLDER WITH 30 AMP FUSES & NEUTRAL SLUG INSIDE THE JUNCTION BOX

LT-55

C:\Projects\user\ER\_jacob\cambh01\Documents\C9226680\_I-94\_ILS\_41\C9226680\_720\cadd\720\select\Lighting Plans (50\_Scale).E22685 North\_Conventional\0162605-hlt-light-64.dgn



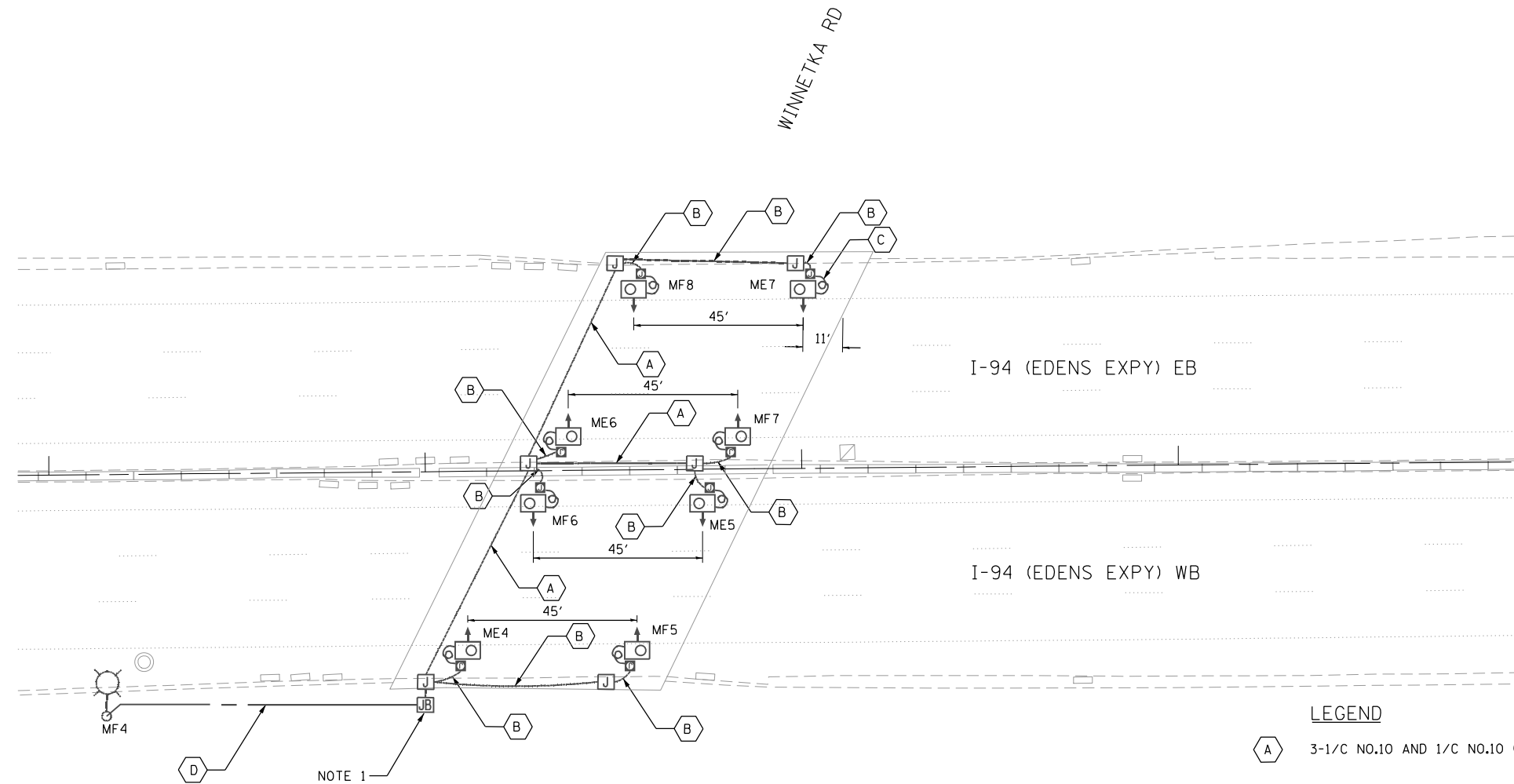
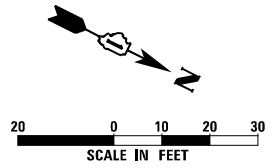
USER NAME = korabmp	DESIGNED - VN	REVISED -
	DRAWN - VN	REVISED -
PLOT SCALE =	CHECKED - RP/MG	REVISED -
PLOT DATE = 7/2/2022	DATE - 7/1/2022	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>PROPOSED UNDERPASS INSTALLATION PLAN</b>		
<b>I-94 AT GLENVIEW ROAD</b>		
SCALE: 1" = 20'	SHEET 55 OF 86 SHEETS STA.	TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2020-236-L	COOK/LAKE	173	136
CONTRACT NO. 62N05			ILLINOIS FED. AID PROJECT	





**NOTES**

1. INSTALL FUSEHOLDER WITH 30 AMP FUSES & NEUTRAL SLUG INSIDE THE JUNCTION BOX

**LEGEND**

- 3-1/C NO.10 AND 1/C NO.10 GND IN 1" PVCC RGC
- 2-1/C NO.10 AND 1/C NO.10 GND IN 1"PVCC RGC
- 2-1/C NO.10 AND 1-1/C NO.10 GND IN 3/4" LIQUID-TIGHT FLEXIBLE CONDUIT
- UNIT DUCT, 600V, 3-1/C NO. 2 1/C NO. 4, GND 1 1/2" DIA. (TYP)
- LUMINAIRE, LED, UNDERPASS, SUSPENDED, OUTPUT DESIGNATION E (14.5-FT M.H.)
- JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 6"X6"X4"
- JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 10" X 6"
- JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 18" X 18" X 8"
- EXISTING JUNCTION BOX

LT-56



USER NAME = korabmp	DESIGNED - VN	REVISED -
	DRAWN - VN	REVISED -
PLOT SCALE =	CHECKED - RP/MG	REVISED -
PLOT DATE = 7/2/2022	DATE - 7/1/2022	REVISED -

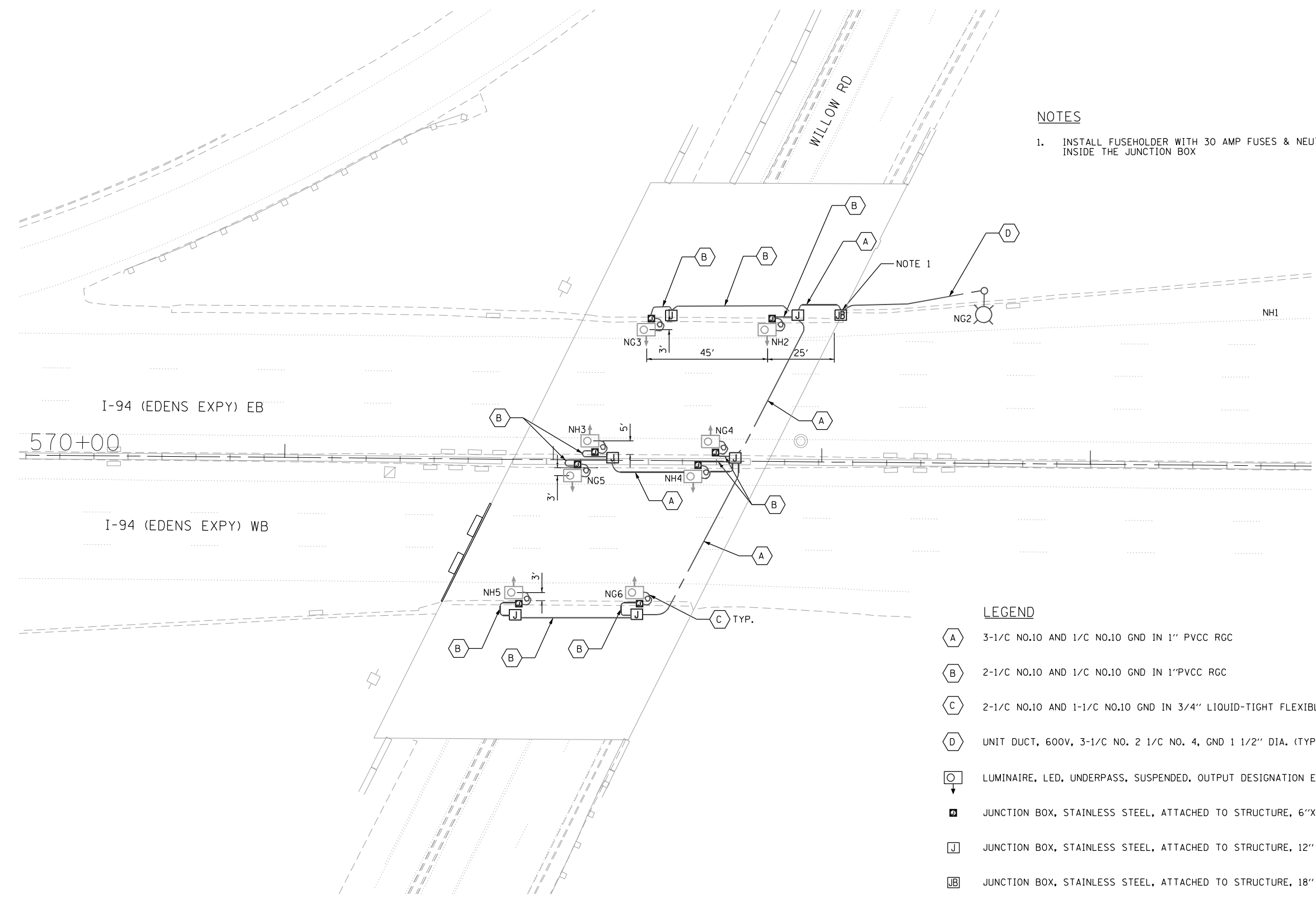
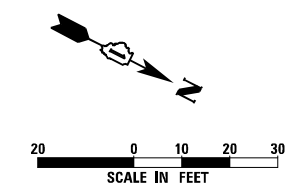
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PROPOSED UNDERPASS INSTALLATION PLAN  
I-94 AT WINNETKA RD**

SCALE: 1" = 20' SHEET 56 OF 86 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2020-236-L	COOK/LAKE	173	137
CONTRACT NO. 62N05				
ILLINOIS FED. AID PROJECT				

c:\projects\winnetka\ER\_jacobson\Documents\C9220668\_1-94\_ILL-41\C9220668\_706ecedd\703\elect\Lighting Plans (50 Scale)\E2N05 North Conventional\062N05-nit-light-65.dgn



**NOTES**

1. INSTALL FUSEHOLDER WITH 30 AMP FUSES & NEUTRAL SLUG INSIDE THE JUNCTION BOX

**LEGEND**

- (A) 3-1/C NO.10 AND 1/C NO.10 GND IN 1" PVCC RGC
- (B) 2-1/C NO.10 AND 1/C NO.10 GND IN 1"PVCC RGC
- (C) 2-1/C NO.10 AND 1-1/C NO.10 GND IN 3/4" LIQUID-TIGHT FLEXIBLE CONDUIT
- (D) UNIT DUCT, 600V, 3-1/C NO. 2 1/C NO. 4, GND 1 1/2" DIA. (TYP)
- (NH) LUMINAIRE, LED, UNDERPASS, SUSPENDED, OUTPUT DESIGNATION E (14.5-FT M.H.)
- (J) JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 6"X6"X4"
- (JB) JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 10" X 6"
- (JB) JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 18" X 18" X 8"
- (J) EXISTING JUNCTION BOX

p:\Projects\user\ER\_jacob\cambh01\Documents\C9226680\_1-94\_ILS\_41\C9226680\_720\cadd\720\select\Lighting Plans (50 Scale).dgn  
 I-94 (EDENS EXPY) EB WB  
 570+00  
 ILLINOIS FED. AID PROJECT



USER NAME = korabmp	DESIGNED - VN	REVISED -
	DRAWN - VN	REVISED -
PLOT SCALE =	CHECKED - RP/MG	REVISED -
PLOT DATE = 7/2/2022	DATE - 7/1/2022	REVISED -

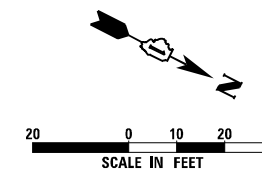
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PROPOSED UNDERPASS INSTALLATION PLAN  
I-94 AT WILLOW RD**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2020-236-L	COOK/LAKE	173	138
CONTRACT NO. 62N05				
ILLINOIS FED. AID PROJECT				

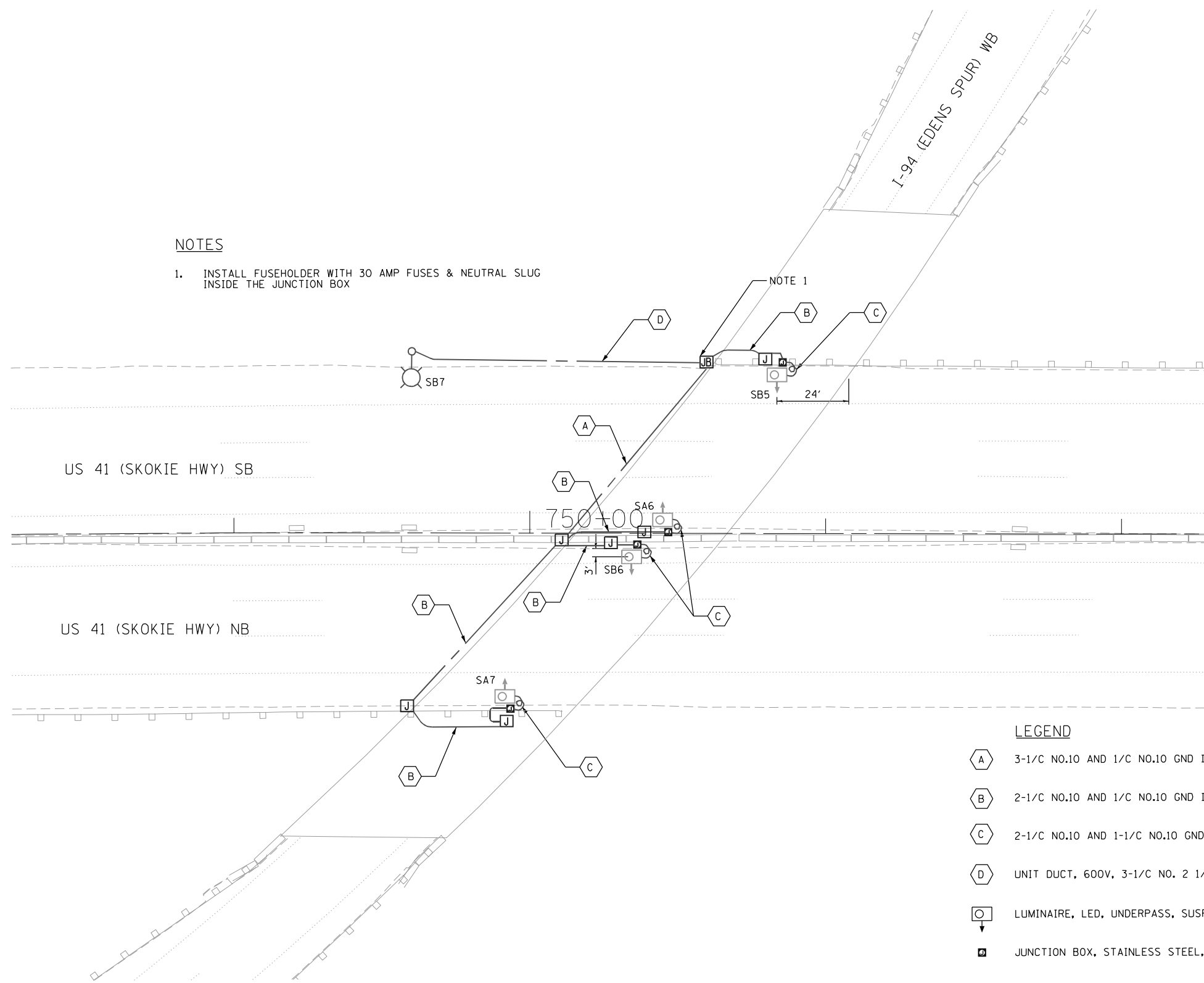
SCALE: 1" = 20' SHEET 57 OF 86 SHEETS STA. TO STA.

LT-57



**NOTES**

1. INSTALL FUSEHOLDER WITH 30 AMP FUSES & NEUTRAL SLUG INSIDE THE JUNCTION BOX



**LEGEND**

- A 3-1/C NO.10 AND 1/C NO.10 GND IN 1" PVCC RGC
- B 2-1/C NO.10 AND 1/C NO.10 GND IN 1"PVCC RGC
- C 2-1/C NO.10 AND 1-1/C NO.10 GND IN 3/4" LIQUID-TIGHT FLEXIBLE CONDUIT
- D UNIT DUCT, 600V, 3-1/C NO. 2 1/C NO. 4, GND 1 1/2" DIA. (TYP)
- O LUMINAIRE, LED, UNDERPASS, SUSPENDED, OUTPUT DESIGNATION E (14.5-FT M.H.)
- JB JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 6"X6"X4"
- J JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 10" X 6"
- J\_E JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 18" X 18" X 8"
- J EXISTING JUNCTION BOX

LT-58



USER NAME = korabmp	DESIGNED - VN	REVISED -
	DRAWN - VN	REVISED -
PLOT SCALE =	CHECKED - RP/MG	REVISED -
PLOT DATE = 7/2/2022	DATE - 7/1/2022	REVISED -

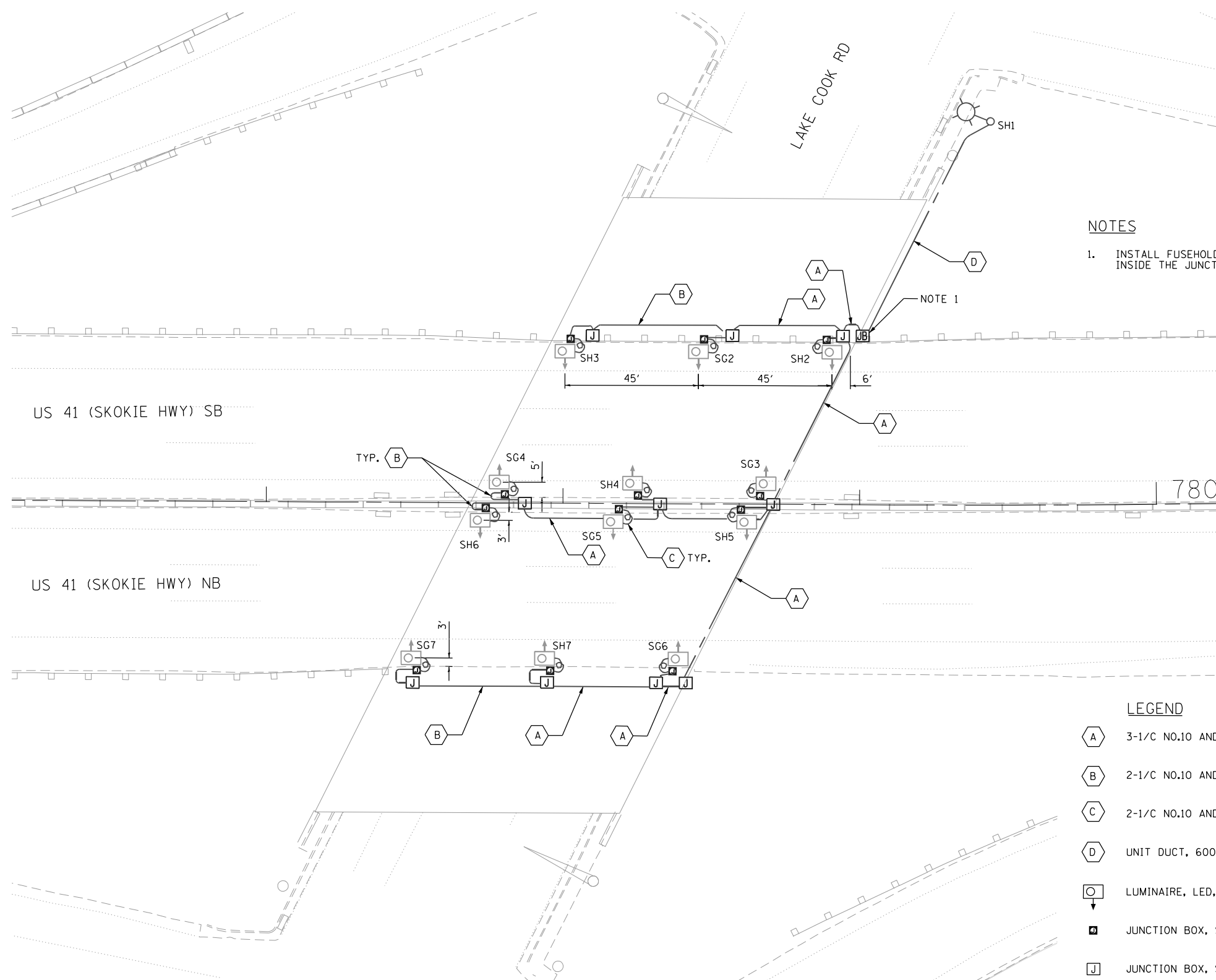
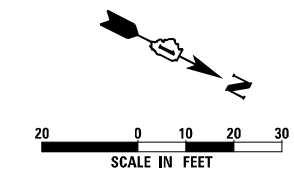
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PROPOSED UNDERPASS INSTALLATION PLAN  
I-94 AT EDENS SPUR**

SCALE: 1" = 20' SHEET 58 OF 86 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2020-236-L	COOK/LAKE	173	139
CONTRACT NO. 62N05				
ILLINOIS FED. AID PROJECT				

c:\projects\user\ER\_jacob\camb01\Documents\C9220680\_L-94\_ILS-41\C9220680\_720ecedd\703select\Lighting Plans (50 Scale).E2N05 North Conventional\0162N05-nit-light-67.dgn



**NOTES**

- 1. INSTALL FUSEHOLDER WITH 30 AMP FUSES & NEUTRAL SLUG INSIDE THE JUNCTION BOX

**LEGEND**

- (A) 3-1/C NO.10 AND 1/C NO.10 GND IN 1" PVCC RGC
- (B) 2-1/C NO.10 AND 1/C NO.10 GND IN 1"PVCC RGC
- (C) 2-1/C NO.10 AND 1-1/C NO.10 GND IN 3/4" LIQUID-TIGHT FLEXIBLE CONDUIT
- (D) UNIT DUCT, 600V, 3-1/C NO. 2 1/C NO. 4, GND 1 1/2" DIA. (TYP)
- (SH) LUMINAIRE, LED, UNDERPASS, SUSPENDED, OUTPUT DESIGNATION E (14.5-FT M.H.)
- (J) JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 6"X6"X4"
- (JB) JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 10" X 6"
- (JB) JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 18" X 18" X 8"
- (J) EXISTING JUNCTION BOX

C:\Projects\user\ER\_jacob\cambh01\Documents\C9226680\_1-94\_ILS\_41\C9226680\_726ecedd\703select\Lighting Plans (50 Scale).dgn  
 C:\Projects\user\ER\_jacob\cambh01\Documents\C9226680\_1-94\_ILS\_41\C9226680\_726ecedd\703select\Lighting Plans (50 Scale).dgn  
 C:\Projects\user\ER\_jacob\cambh01\Documents\C9226680\_1-94\_ILS\_41\C9226680\_726ecedd\703select\Lighting Plans (50 Scale).dgn



USER NAME = korabmp	DESIGNED - VN	REVISED -
	DRAWN - VN	REVISED -
PLOT SCALE =	CHECKED - RP/MG	REVISED -
PLOT DATE = 7/2/2022	DATE - 7/11/2022	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PROPOSED UNDERPASS INSTALLATION PLAN  
I-94 AT LAKE COOK RD**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2020-236-L	COOK/LAKE	173	140
CONTRACT NO. 62N05				
ILLINOIS FED. AID PROJECT				

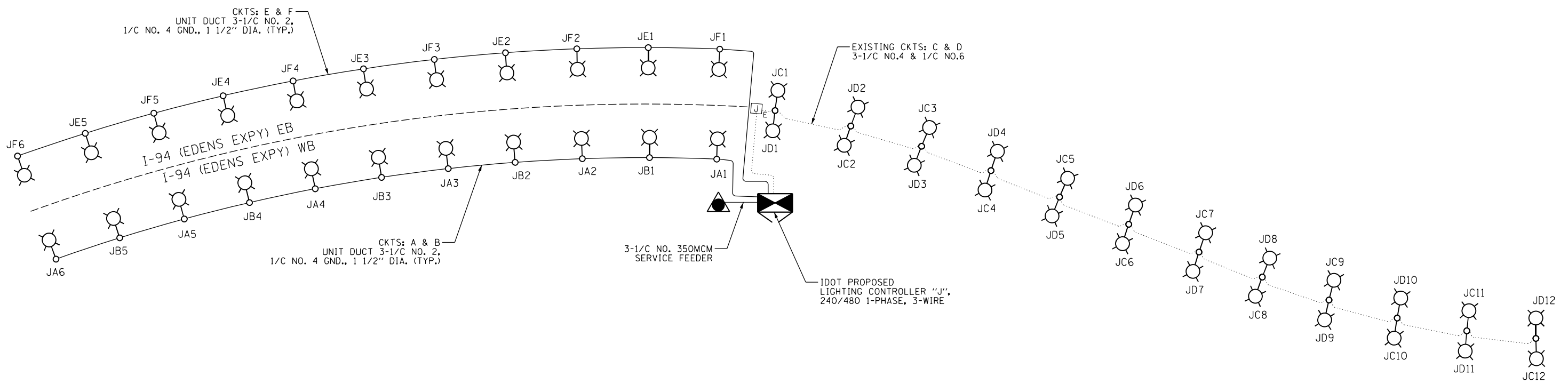
LT-59

SCALE: 1" = 20' SHEET 59 OF 86 SHEETS STA. TO STA.





LOAD TABLE							
LIGHTING CONTROLLER 'J', 240/480V, 1-Φ, 3-WIRE							
RED PHASE	NO. LUM. *	AMPS	WATTS	BLACK PHASE	NO. LUM. *	AMPS	WATTS
A	6-240W	6.00	1440.0	B	5-240W	5.00	1200.0
C	12-240W	12.00	2880.0	D	12-240W	12.00	2880.0
E	5-240W	6.00	1200.0	F	6-240W	5.00	1440.0
TOTAL	23-240W	18.0	4320.0	TOTAL	23-240W	17.0	4080.0
TOTAL CONNECTED LOAD CAPACITY:		8.40 KVA					
LED H=240W							



**LEGEND**

SYMBOL	DESCRIPTION
	PROPOSED IDOT LIGHTING UNIT
	PROPOSED LIGHTING CONTROLLER, 240/480 1-PHASE
	PROPOSED ELECTRIC UTILITY SERVICE
	UNDERPASS LIGHTING
	PROPOSED UNIT DUCT
	EXISTING CIRCUIT

C:\Projects\us41\ER\_jecb\camb\10\Documents\C9226680\_1-94\_ILS\_41\C9226680\_726\cadd\703\select\Lighting Plans (50\_Scale)\E2N05\_North\_Conventional\_ID62N05-hlt-light-48.dgn



USER NAME = korabmp	DESIGNED - VN	REVISED -
	DRAWN - VN	REVISED -
PLOT SCALE =	CHECKED - RP/MG	REVISED -
PLOT DATE = 7/2/2022	DATE - 7/1/2022	REVISED -

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

**I-94 /US 41 SMART HIGHWAY**  
**PROPOSED LIGHTING SCHEMATIC - CONTROLLER J**

SCALE: SHEET 61 OF 86 SHEETS STA. TO STA.

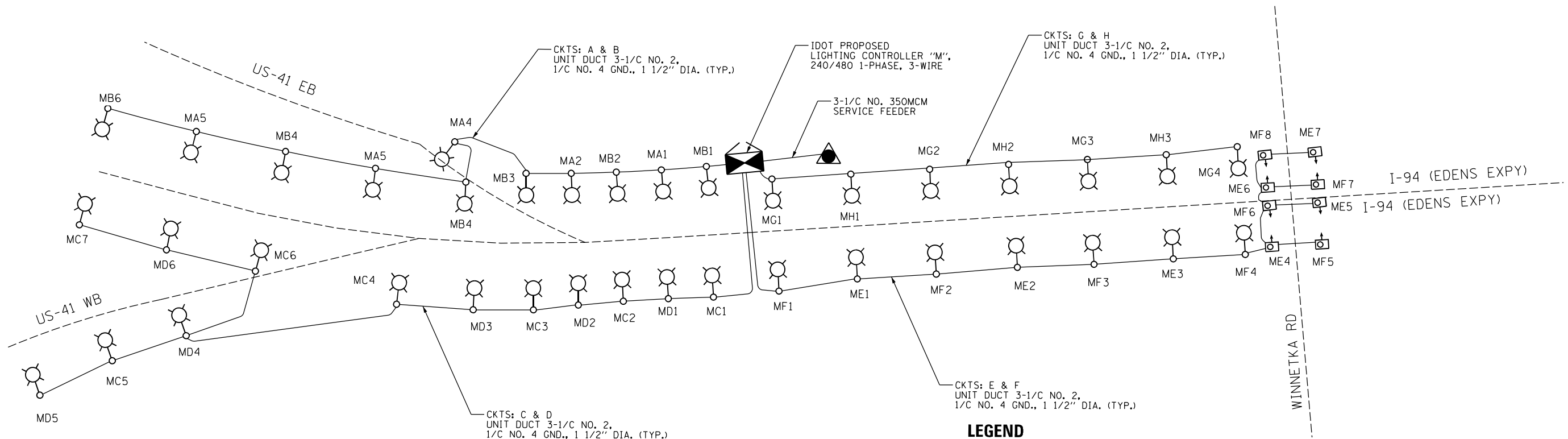
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2020-236-L	COOK/LAKE	173	142
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62N05	





LOAD TABLE							
LIGHTING CONTROLLER 'M', 240/480V, 1-Φ, 3-WIRE							
RED PHASE	NO. LUM. *	AMPS	WATTS	BLACK PHASE	NO. LUM. *	AMPS	WATTS
A	5-240W	5.00	1200.0	B	6-240W	6.00	1440.0
C	7-240W	7.00	1680.0	D	6-240W	6.00	1440.0
E	3-240W 4-105W	4.75	1140.0	F	4-240W 4-105W	5.75	1380.0
G	4-240W	4.00	960.0	H	3-240W	3.00	720.0
TOTAL	23-240W 4-105W	12.0	4980.0	TOTAL	23-240W 4-105W	12.0	4980.0

TOTAL CONNECTED LOAD CAPACITY: 9.96 KVA  
LED H=240W, UNDERPASS LED=105W



**LEGEND**

SYMBOL	DESCRIPTION
	PROPOSED IDOT LIGHTING UNIT
	PROPOSED IDOT TWIN ARM LIGHTING UNIT
	PROPOSED LIGHTING CONTROLLER, 240/480 1-PHASE
	PROPOSED ELECTRIC UTILITY SERVICE
	PROPOSED UNDERPASS LIGHTING
	PROPOSED UNIT DUCT
	EXISTING CIRCUIT

C:\Projects\us41\ER\_jacobson\h01\Documents\C9226680\_1-94\_ILS\_41\C9226680\_720\cadd\720\select\Lighting Plans (50 Scale)\62N05 North Conventional\0162N05-hlt-light-50.dgn



USER NAME = korabmp	DESIGNED - VN	REVISED -
PLOT SCALE =	DRAWN - VN	REVISED -
PLOT DATE = 7/2/2022	CHECKED - RP/MG	REVISED -
	DATE - 7/1/2022	REVISED -

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

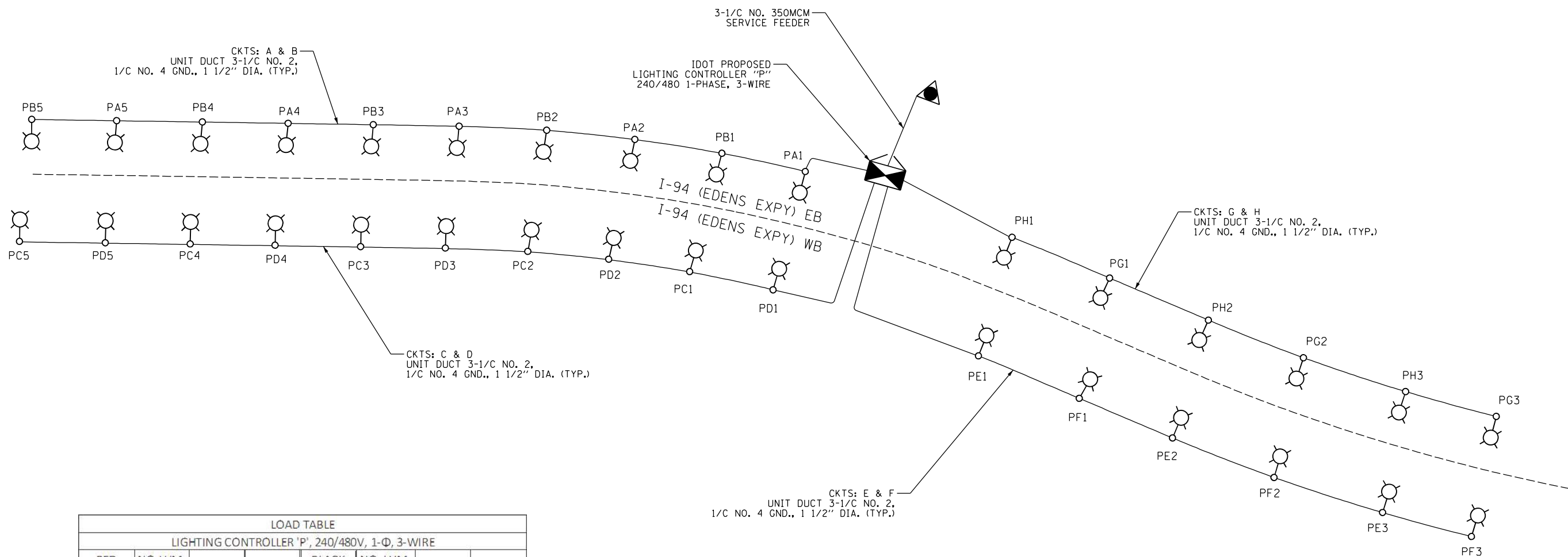
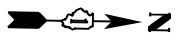
**I-94 /US 41 SMART HIGHWAY**  
**PROPOSED LIGHTING SCHEMATIC - CONTROLLER M**

SCALE: SHEET 63 OF 86 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2020-236-L	COOK/LAKE	173	144
CONTRACT NO. 62N05			ILLINOIS FED. AID PROJECT	







LOAD TABLE							
LIGHTING CONTROLLER 'P', 240/480V, 1-Φ, 3-WIRE							
RED PHASE	NO. LUM. *	AMPS	WATTS	BLACK PHASE	NO. LUM. *	AMPS	WATTS
A	5-240W	5.00	1200.0	B	5-240W	5.00	1200.0
C	5-240W	5.00	1200.0	D	5-240W	5.00	1200.0
E	3-240W	3.00	720.0	F	3-240W	3.00	720.0
G	3-240W	3.00	720.0	H	3-240W	3.00	720.0
TOTAL	16-240W	10.0	2400.0	TOTAL	16-240W	10.0	2400.0
TOTAL CONNECTED LOAD CAPACITY:				4.80 KVA			
LED H=240W							

**LEGEND**

- | SYMBOL | DESCRIPTION                                   |
|--------|---|
|        | PROPOSED IDOT MEDIAN LIGHTING UNIT            |
|        | PROPOSED IDOT LIGHTING UNIT                   |
|        | PROPOSED LIGHTING CONTROLLER, 240/480 1-PHASE |
|        | PROPOSED ELECTRIC UTILITY SERVICE             |
|        | PROPOSED UNDERPASS LIGHTING                   |
|        | PROPOSED UNIT DUCT                            |
|        | EXISTING CIRCUIT                              |

C:\Projects\us41\ER\_jacob\camb01\Documents\C9226680\_1-94\_ILS\_41\C9226680\_720\cadd\720\select\lighting\Plans (50\_Scales)\E2N05\_North\_Conventional\01626055\_nht-light-52.dgn



USER NAME = korabmp	DESIGNED - VN	REVISED -
	DRAWN - VN	REVISED -
PLOT SCALE =	CHECKED - RP/MG	REVISED -
PLOT DATE = 7/2/2022	DATE - 7/1/2022	REVISED -

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

**I-94 /US 41 SMART HIGHWAY**  
**PROPOSED LIGHTING SCHEMATIC - CONTROLLER P**

SCALE: SHEET 65 OF 86 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2020-236-L	COOK/LAKE	173	146
CONTRACT NO. 62N05				
ILLINOIS FED. AID PROJECT				








F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
84	2020-236-L	COOK	173	149
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

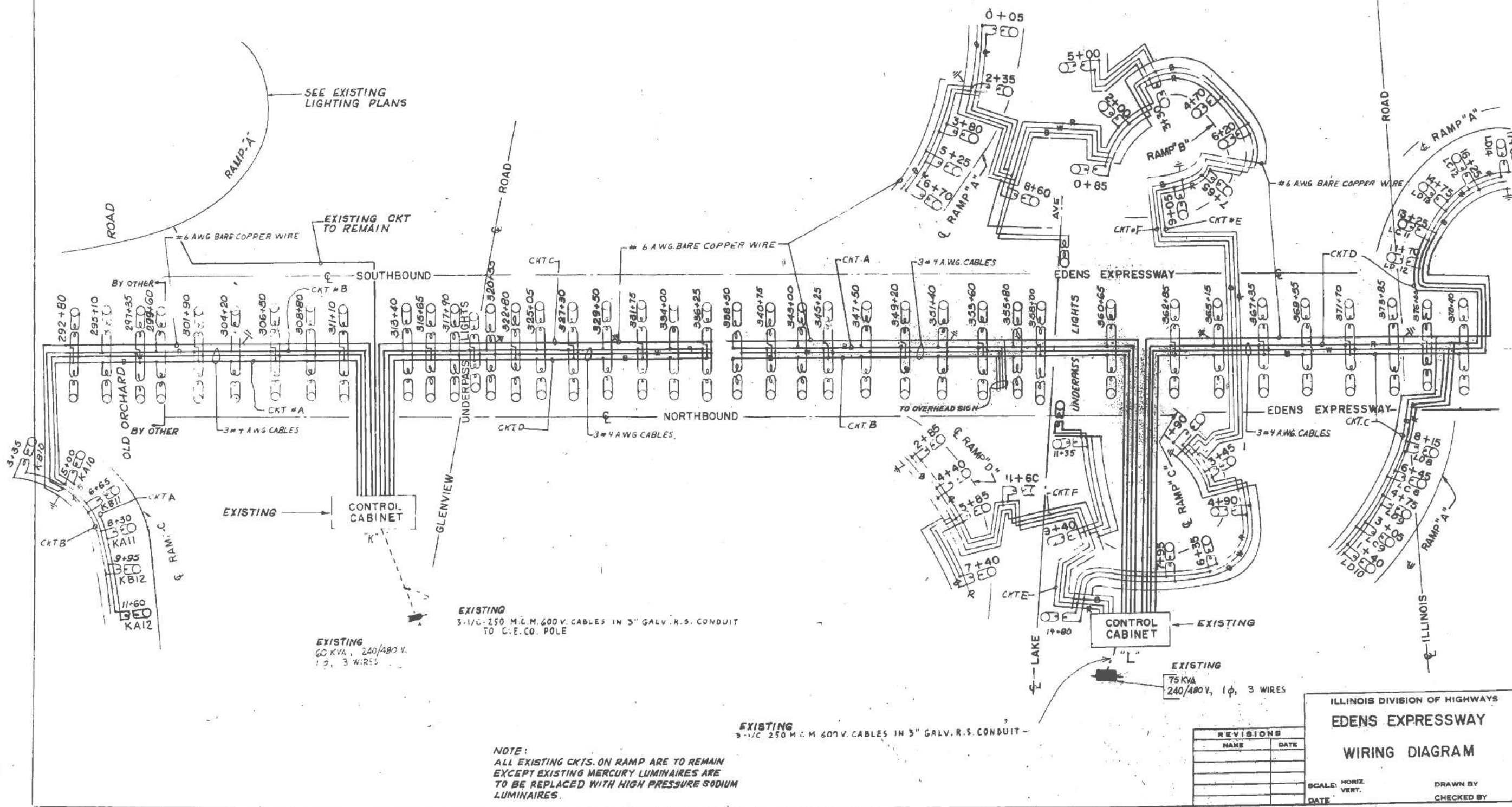
R 91-424-71

**SYMBOLS**

-  HIGH PRESSURE SODIUM LAMP & BALLAST
-  GROUNDING LOCATION

**COLOR CODE**

- R = RED COLOR CODE
- B = BLACK COLOR CODE
- W = WHITE COLOR CODE













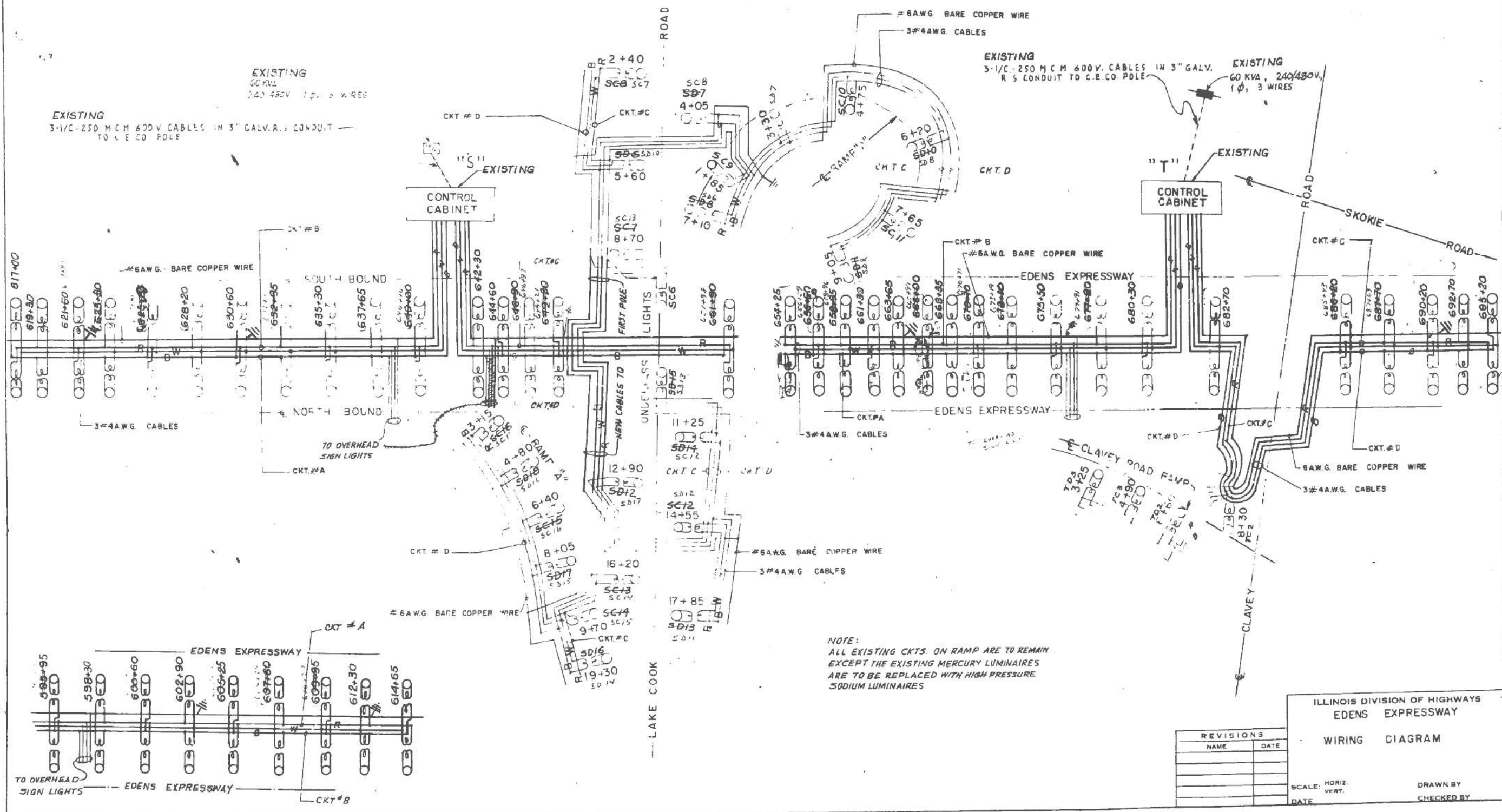


F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1878-007-R	COOK LAKE	167	120
STA.	TO STA.			
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

P-91-424-77

**SYMBOLS**  
 HIGH PRESSURE SODIUM BALLAST  
 GROUNDING LOCATION

**COLOR CODE:**  
 R = RED COLOR CABLE  
 B = BLACK COLOR CABLE  
 W = WHITE COLOR CABLE



**NOTE:**  
 ALL EXISTING CKTS. ON RAMP ARE TO REMAIN EXCEPT THE EXISTING MERCURY LUMINAIRES ARE TO BE REPLACED WITH HIGH PRESSURE SODIUM LUMINAIRES

REVISIONS	
NAME	DATE

ILLINOIS DIVISION OF HIGHWAYS  
 EDENS EXPRESSWAY  
 WIRING DIAGRAM

SCALE: HORIZ. \_\_\_\_\_ VERT. \_\_\_\_\_ DATE \_\_\_\_\_ DRAWN BY \_\_\_\_\_ CHECKED BY \_\_\_\_\_

C:\Projects\11000000\Documents\C9226688\_1-94.ILL.41\C9226688\_720.dwg\11000000\Lighting Plans (50) Skokie\62N05 North Conventional\01626095-nht-light-75.dwg



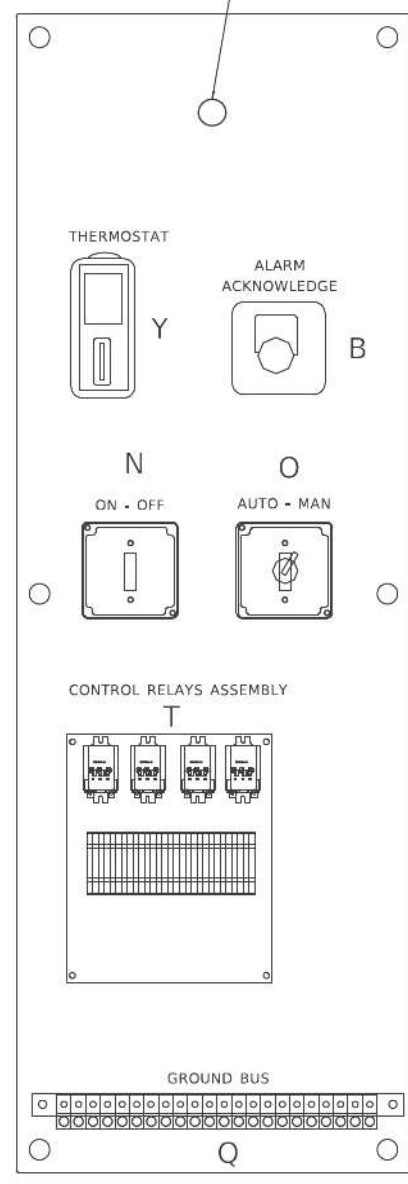
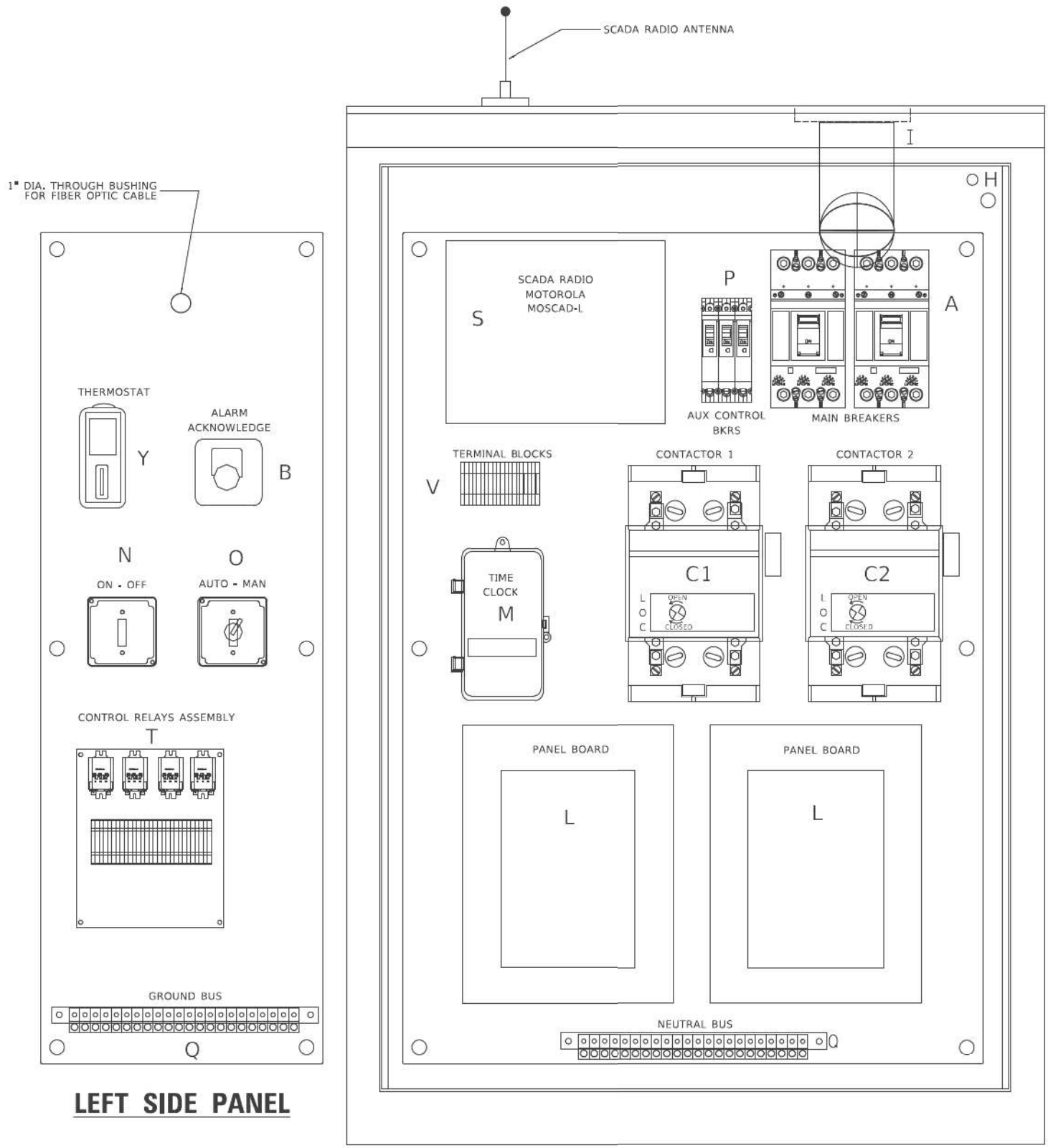
USER NAME = korabmp	DESIGNED - VN	REVISED -
PLOT SCALE =	DRAWN - VN	REVISED -
PLOT DATE = 7/2/2022	CHECKED - RP/MG	REVISED -
	DATE - 7/1/2022	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

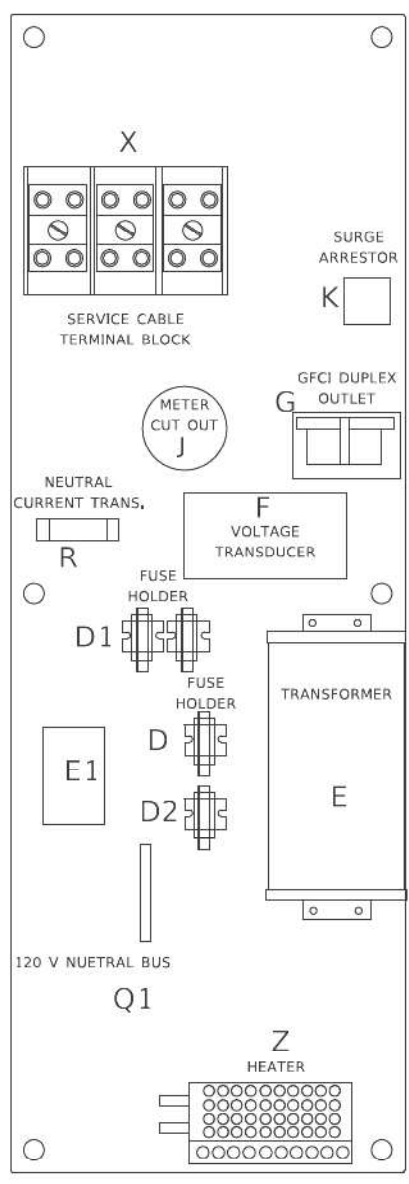
**AS-BUILT CONTROLLER "S" AND "T" WIRING DIAGRAM**  
 SCALE: SHEET 72 OF 86 SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2020-236-L	COOK/LAKE	173	153
CONTRACT NO. 62N05				
ILLINOIS FED. AID PROJECT				

LT-72



**LEFT SIDE PANEL**



**RIGHT SIDE PANEL**

BILL OF MATERIALS		
ITEM	QTY	DESCRIPTION
A	2	MAIN CIRCUIT BREAKERS 2 POLE 200 AMP WITH AUX CONTACT
B	1	ACKNOWLEDGE SWITCH, PUSH BUTTON WITH YELLOW INSERT
C1, C2*	2	CONTACTOR 2 POLE 200 AMP 240V COIL WITH AUX CONTACTS
D	1	FINGERSAFE FUSE HOLDER WITH KTK - 20A FUSE
D1	2	FINGERSAFE FUSE HOLDER WITH KTK - 1/2 A FUSE
D2	1	FINGERSAFE FUSE HOLDER WITH KTK - 2A FUSE
E	1	2.0 KVA 277V-240/120 TRANSFORMER
E1	1	0.25 KVA240/ 120 - 24 VAC TRANSFORMER
F	1	VOLTAGE TRANSUDER WITH COVER TERMINALS
G	1	20 AMP GFCI DUPLEX OUTLET W/COVER
H	2	DOOR SWITCH
I	1	LIGHT FIXTURE
J	1	METER FITTING 1 PHASE 3 WIRE 200 AMP
K	1	SURGE ARRESTER
L	2	PANEL BOARD 480/ 240V 1 PHASE, 250 AMP COPPER BUS
M	1	2 CHANNEL DIGITAL TIME CLOCK
N	1	MOMENTARY SWITCH ON - OFF
O	1	SQUARE D, 9001KS11BH13, 2 POSITION SWITCH IN 9001KY1 ENCLOSURE OR APPROVED EQUAL
P	2	BREAKER 1P 15A
Q	2	COPPER GROUND AND NEUTRAL BUS 1 X 16 X 1/4
Q1	1	COPPER NEUTRAL BUS WITH 1 #6 AND 8 #12 CONDUCTOR POINTS
R	1	CURRENT TRANSUDER
S	1	MOTOROLA MOSCAD-L RADIO, 240 V
T*	1	CONTROL RELAY ASSEMBLY 240V COILS WITH 4 - 3PDT 25A RELAYS (W389ACK-15) (R1, R2, R3, R4), QTY 32 TERMINAL BLOCKS
V	20	TERMINAL BLOCKS
X*	1	620 AMP SPLICE BLOCK
Y	1	40-80 DEGREE THERMOSTAT
Z	1	375 WATT HEATER

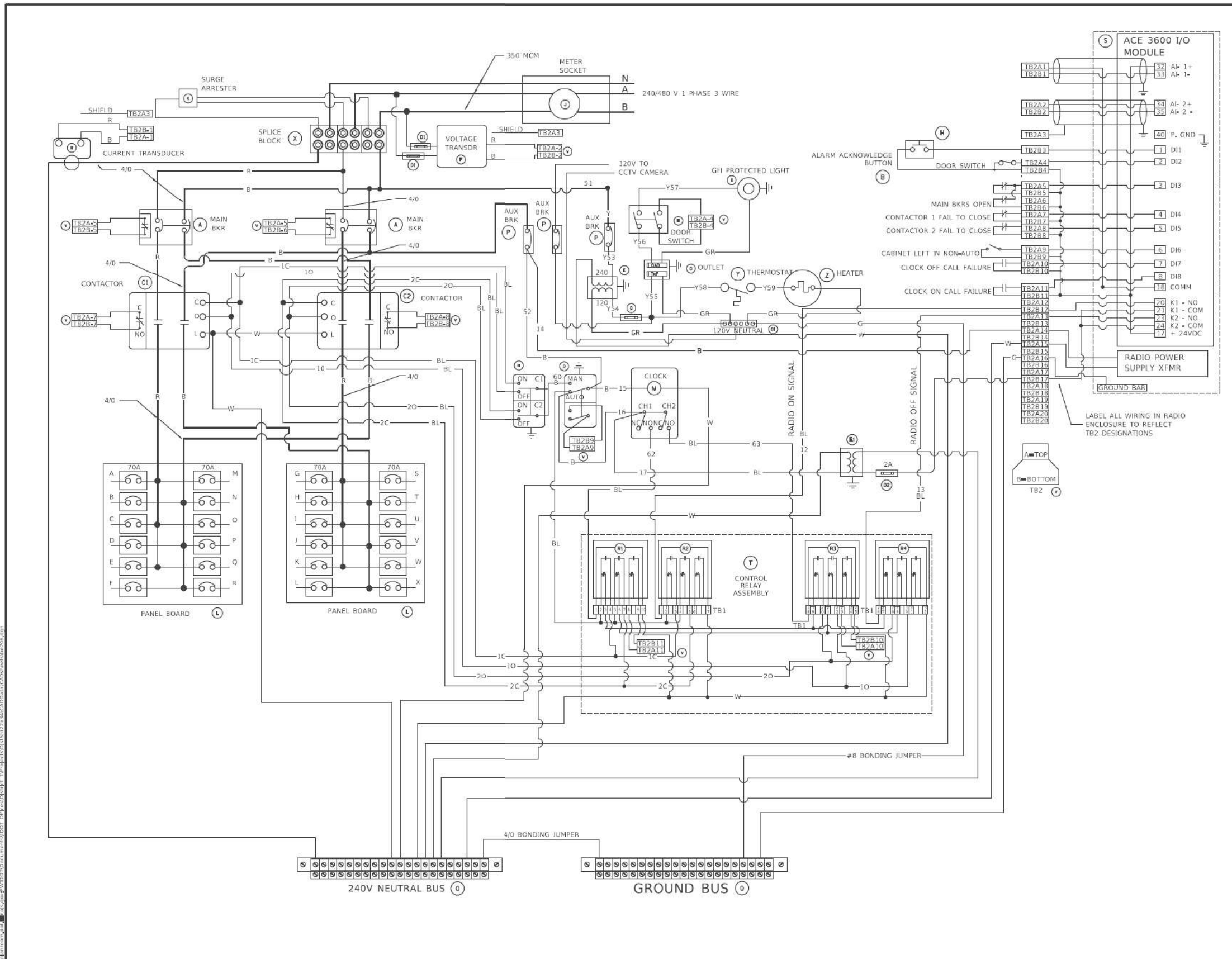
\* TERMINALS SHALL BE COVERED WITH CLEAR PLEXIGLASS SHEET

USER NAME = kaysa DESIGNED - B. TOMSONS DRAWN - CHECKED - DATE - 01-15-2020	REVISIONS REVISED - REVISED - REVISED - REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>LIGHTING CONTROLLER, BASE MOUNTED, 480VOLT, 200AMP (DUAL) RADIO SCADA - FIBER OPTIC PROVISION</b>	F.A.I. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO. BE-206 CONTRACT NO.
---	---	---	--	--

USER NAME = korabmp DESIGNED - VN DRAWN - VN CHECKED - RP/MG DATE - 7/1/2022	REVISIONS REVISED - REVISED - REVISED - REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>IDOT D1-BUREAU OF ELECTRICAL DETAIL STANDARDS</b>	F.A.I. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO. 2020-236-L COOK/LAKE 173 154 CONTRACT NO. 62N05
--	---	---	--	---

C:\Users\korabmp\Documents\C9226688\_1-94\_U.S. 41\C9226688\_720\cadd\720\select\lighting Plans (50 Scale).dgn  
 Project: 2020-236-L, Cook/Lake, ILLINOIS FED. AID PROJECT



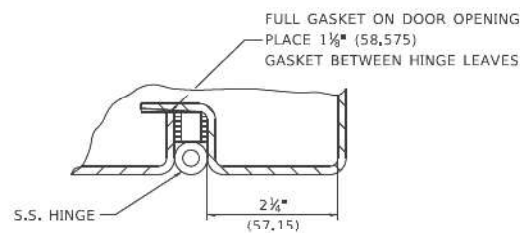


BILL OF MATERIALS		
ITEM	QTY	DESCRIPTION
A	2	MAIN CIRCUIT BREAKERS 2 POLE 200 AMP WITH AUX CONTACT
B	1	ACKNOWLEDGE SWITCH, PUSH BUTTON WITH YELLOW INSERT
C1, C2 *	2	CONTACTOR 2 POLE 200 AMF 240V COIL WITH AUX CONTACTS
D	1	FINGERSAFE FUSE HOLDER WITH KTK - 20A FUSE
D1	2	FINGERSAFE FUSE HOLDER WITH KTK - 1/2 A FUSE
D2	1	FINGERSAFE FUSE HOLDER WITH KTK - 2A FUSE
E	1	2.0 KVA 277V-240/120 TRANSFORMER
E1	1	0.25 KVA240/ 120 - 24 VAC TRANSFORMER
F	1	VOLTAGE TRANSUDCER WITH COVER TERMINALS
G	1	20 AMP GFCI DUPLEX OUTLET W/COVER
H	2	DOOR SWITCH
I	1	LIGHT FIXTURE
J	1	METER FITTING 1 PHASE 3 WIRE 200 AMP
K	1	SURGE ARRESTER
L	2	PANEL BOARD 480/ 240V 1 PHASE, 250 AMP COPPER BUS
M	1	2 CHANNEL DIGITAL TIME CLOCK
N	1	MOMENTARY SWITCH ON - OFF
O	1	SQUARE D, 900IKS11BH13, 2 POSITION SWITCH IN 9001KY1 ENCLOSURE OR APPROVED EQUAL
P	2	BREAKER 1P 15A
Q	2	COPPER GROUND AND NEUTRAL BUS 1 X 15 X 1/4
Q1	1	COPPER NEUTRAL BUS WITH 1 #6 AND 8 #12 CONDUCTOR POINTS
R	1	CURRENT TRANSUDCER
S	1	MOTOROLA MOSCAD-1, RADIO, 240 V
T *	1	CONTROL RELAY ASSEMBLY 240V COILS WITH 4 - 3PDT 25A RELAYS (W389ACX-15) (R1, R2, R3, R4), QTY 32 TERMINAL BLOCKS
V	20	TERMINAL BLOCKS
X *	1	620 AMP SPLICE BLOCK
Y	1	40-80 DEGREE THERMOSTAT
Z	1	375 WATT HEATER

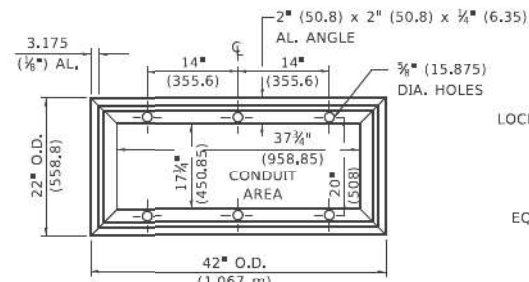
\* TERMINALS SHALL BE COVERED WITH CLEAR PLEXIGLASS SHEET

USER NAME = <b>korabmp</b> DESIGNED - <b>VN</b> DRAWN - <b>VN</b> CHECKED - <b>RP/MG</b> PLOT DATE = 7/2/2022	DESIGNED - <b>B, TOMSONS</b> DRAWN - CHECKED - DATE - <b>01-15-2020</b>	REVISED - REVISED - REVISED - REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>LIGHTING CONTROLLER, BASE MOUNTED,</b> <b>480VOLT, 200AMP (DUAL) RADIO SCADA - FIBER OPTIC PROVISION</b>	F.A.I. RTE. _____ SECTION _____ COUNTY _____ TOTAL SHEETS _____ SHEET NO. _____ <b>BE-206</b> CONTRACT NO. _____ <small>ILLINOIS FED. AID PROJECT</small>
---	--	--	---	--	---

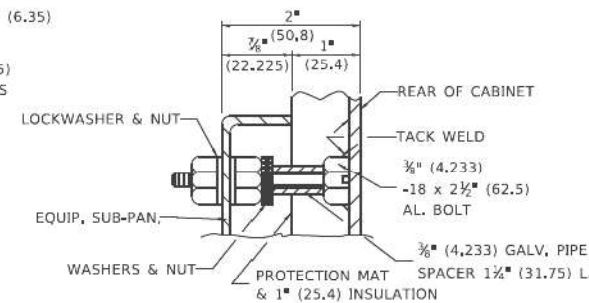
<b>SINGH</b> <small>SINGH &amp; ASSOCIATES, INC.</small> <small>CONSULTING ENGINEERS</small>	USER NAME = <b>korabmp</b> DESIGNED - <b>VN</b> DRAWN - <b>VN</b> CHECKED - <b>RP/MG</b> PLOT DATE = 7/2/2022	DESIGNED - <b>VN</b> DRAWN - <b>VN</b> CHECKED - <b>RP/MG</b> DATE - 7/1/2022	REVISED - REVISED - REVISED - REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>IDOT D1-BUREAU OF ELECTRICAL DETAIL STANDARDS</b>	F.A.I. RTE. _____ SECTION _____ COUNTY _____ TOTAL SHEETS _____ SHEET NO. _____ 2020-236-L COOK/LAKE 173 155 CONTRACT NO. <b>62N05</b> <small>ILLINOIS FED. AID PROJECT</small>
--	---	--	--	---	--	--



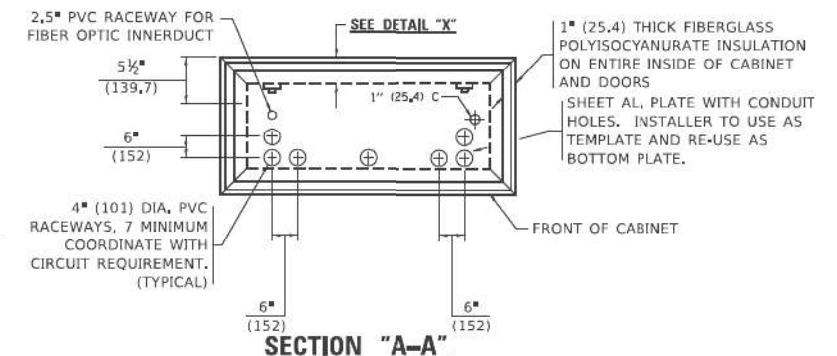
**DETAIL "Y"**



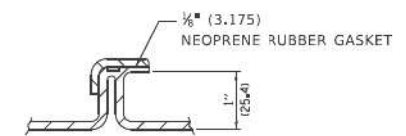
**BASE MTG. DETAIL**



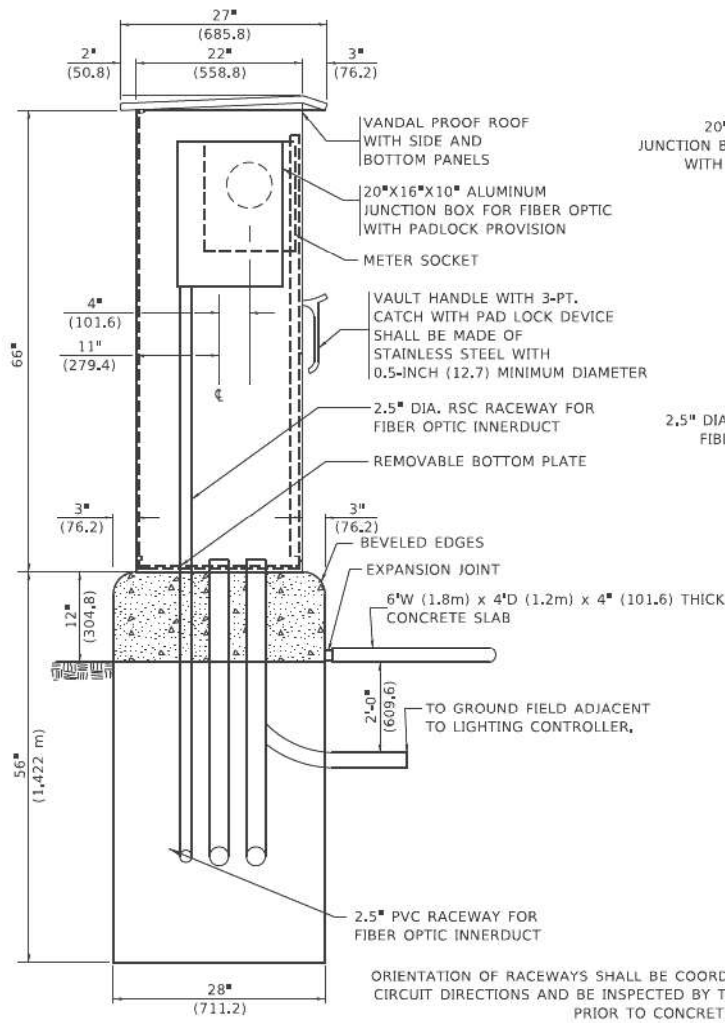
**DETAIL "X"**



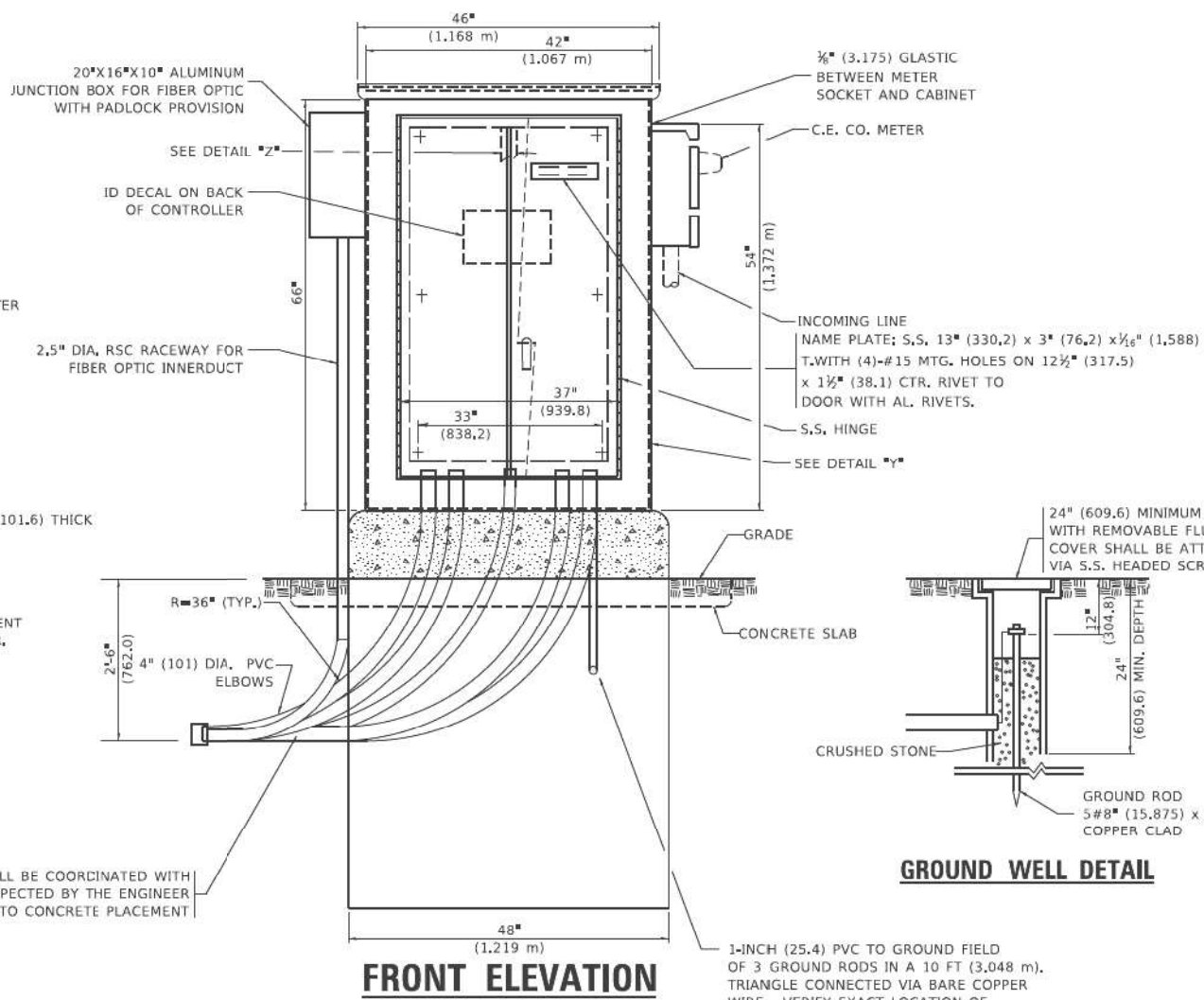
**SECTION "A-A"**



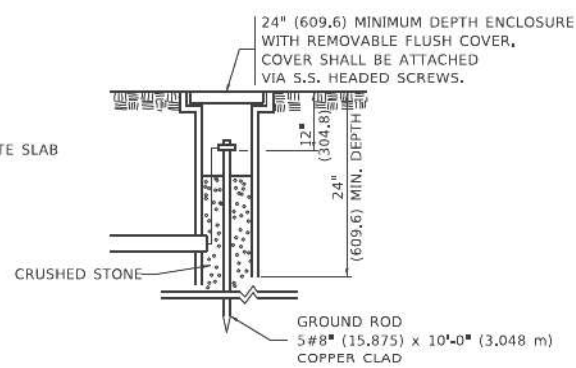
**DETAIL "Z"**



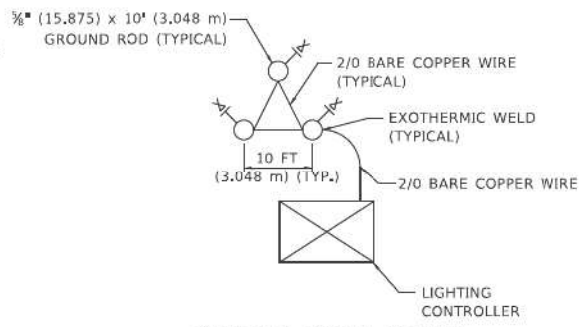
**LEFT SIDE ELEVATION**



**FRONT ELEVATION**



**GROUND WELL DETAIL**



**GROUND FIELD DETAIL (N.T.S.)**

THE CONTRACTOR SHALL VERIFY EXACT LOCATION WITH THE ENGINEER

USER NAME = kaysa	DESIGNED - B. TOMSONS	REVISED -
PLOT SCALE = 3/8" = 1'-0"	DRAWN -	REVISED -
PLOT DATE = 1/15/2020	CHECKED -	REVISED -
	DATE - 01-15-2020	REVISED -

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

**LIGHTING CONTROLLER, BASE MOUNTED,**  
**480VOLT, 200AMP (DUAL) RADIO SCADA - FIBER OPTIC PROVISION**

SCALE: NONE SHEET 3 OF 4 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	BE-206			
CONTRACT NO.			ILLINOIS FED. AID PROJECT	

USER NAME = korabmp	DESIGNED - VN	REVISED -
PLOT SCALE =	DRAWN - VN	REVISED -
PLOT DATE = 7/2/2022	CHECKED - RP/MG	REVISED -
	DATE - 7/1/2022	REVISED -

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

**IDOT D1-BUREAU OF ELECTRICAL DETAIL STANDARDS**

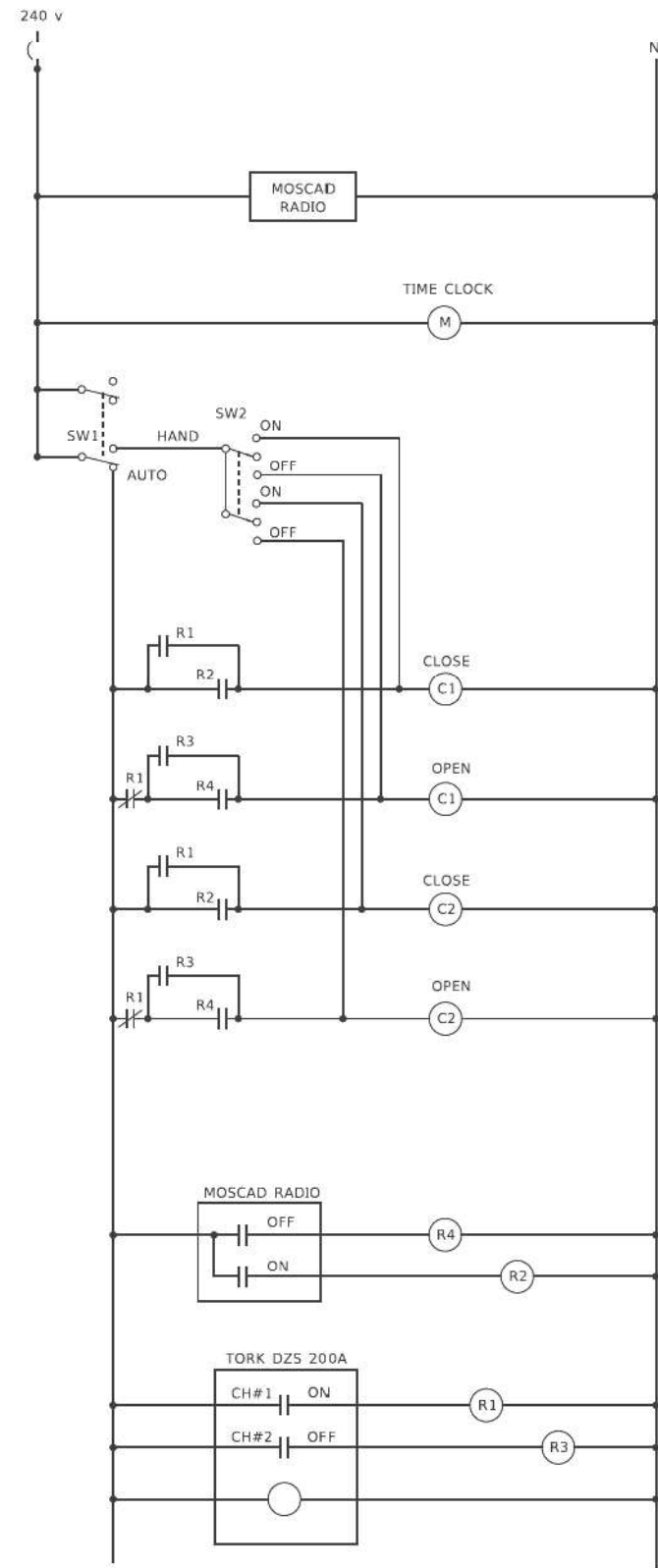
SCALE: SHEET 75 OF 86 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2020-236-L	COOK/LAKE	173	156
CONTRACT NO. 62N05			ILLINOIS FED. AID PROJECT	

**NOTES**

- CABINET SHALL BE FABRICATED FROM 0.125-INCH (3.175) SHEET ALUMINUM #3003H14, FORMED AND ARC WELDED.
- ALL SCREWS AND HARDWARE SHALL BE PLATED, GALVANIZED, OR MADE OF BRASS, ALUMINUM OR STAINLESS STEEL, UNLESS OTHERWISE NOTED.
- NAME PLATE SHALL HAVE ENGRAVED 0.75-INCH (19.05) HIGH LETTERS FILLED IN BLACK; "STATE OF ILLINOIS LIGHTING CONTROLS" UNLESS OTHERWISE SPECIFIED.
- ONE INCH THICK POLYISOCYANURATE INSULATION SHALL BE INSTALL AND PERMANENTLY CEMENTED ON ALL SIDES OF THE CABINET AND DOORS.
- CABINET SHALL BE PRIMED AND PAINTED AS SPECIFIED.
- ELECTRIC UTILITY METER BOX SHALL BE MOUNTED ON THE SIDE OF CONTROL CABINET AS SHOWN ON THE PANEL LAYOUT DIAGRAM.
- THE COMPLETED CONTROLLER SHALL BE U,L LISTED AS AN INDUSTRIAL CONTROL PANEL UNDER UL508.
- METAL MOUNTING PANEL SHALL BE FABRICATED FROM THE SAME MATERIAL AS THE CABINET AND SHALL BE FLANGED BACK 0.75-INCHES 1,D, ON 4 SIDES.
- CIRCUIT BREAKERS AND CONTACTORS AND OTHER COMPONENTS SHALL BE MOUNTED ON 0.125-INCH (3.175) THICK GLASTIC INSULATION BACK PANEL.
- ALL DEVICES SHALL BE FRONT REMOVABLE.
- TIME CLOCK CHANNEL 1 N.O. CONTACT IS CLOSED NIGHT AND OPEN DAY (LIGHTS ON).
- SET LATITUDE TO 42 DEGREES. SET CH.1 TO 23 MINUTES AFTER ASTRONOMICAL SUNSET, 50 MINUTES BEFORE ASTRONOMICAL SUNRISE. SET CH.2 TO 60 MINUTES AFTER ASTRONOMICAL SUNSET (WITH A SIGNAL LENGTH OF 1 SECOND), +28 MINUTES AFTER ASTRONOMICAL SUNRISE (WITH A SIGNAL LENGTH OF 7 SECONDS.)
- BUS BAR SHALL HAVE 22 LUG TERMINALS SIZED TO ACCOMMODATE REQUIRED WIRE SIZES. 240V NEUTRAL BUS SHALL BE PAINTED WHITE, GROUND BUS SHALL BE PAINTED GREEN, AND THE 120V NEUTRAL BUS SHALL BE PAINTED GREY.
- ALL LUGS SHALL BE OF COPPER SCREWS AND CONNECTORS, SPRING HELD.
- ALL WIRING TERMINATIONS SHALL BE RATED NOT LESS THAN 75 DEGREE CENTIGRADE.
- ALL CONTROL WIRING SHALL BE 600V #12 TYPE MTW, SCADA WIRING SHALL BE #18.
- ALL POWER WIRING SHALL BE 600V TYPE RHH/RHW.
- ALL WIRING WITHIN THE CABINET SHALL BE COLOR CODED AS INDICATED:  

R = RED	Y = YELLOW
B = BLACK	W = WHITE
BL = BLUE	G = GREEN
	GR = GREY
- MOSCAD I/O WIRING SHALL BE:  
DIGITAL INPUT (DI) WIRING SHALL BE #18 MTW PURPLE.  
ANALOG INPUT (AI) WIRING SHALL BE #18, 2/C SHIELDED.  
AI AND DI WIRING MAY BE BUNDLED TOGETHER, BUT SHALL NOT BE BUNDLED WITH OTHER WIRING.
- ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE INDICATED.
- SCHEMATIC SHOWN WITH BREAKER OPEN, CONTACTOR OPEN, CABINET DOOR CLOSED, CLOCK NOT ACTIVE (DE-ENERGIZED STATE).
- A LAMINATED COPY OF THE CIRCUIT SCHEMATIC AND SCADA I/O DIAGRAM (NO SMALLER THAN 11"x17" EACH) SHALL BE ATTACHED TO THE INSIDE OF THE CONTROLLER WITH STAINLESS STEEL SCREWS.



**CONTROL CIRCUIT LADDER LOGIC DIAGRAM**

MOSCAD I/O ASSIGNMENTS		
TERM	MOSCAD DESTINATION	DESCRIPTION OF INPUT
1	DIGITAL INPUT 1	ALARM KNOWLEDGE
2	DIGITAL INPUT 2	DOOR OPEN
3	DIGITAL INPUT 3	MAIN(S) BREAKER OPEN
4	DIGITAL INPUT 4	CONTACTOR 1 OPEN
5	DIGITAL INPUT 5	CONTACTOR 2 OPEN
6	DIGITAL INPUT 6	CABINET IN NON-AUTO
7	DIGITAL INPUT 7	BACK-UP CLOCK OFF CALL
8	DIGITAL INPUT 8	BACK-UP CLOCK ON CALL
17	24 V+	24+VDC
18	DI COMMON	COMMON
21	K1 C	K1 COMMON
22	K1 NO	LIGHTS ON CALL
24	K2 C	K2 COMMON
25	K2 NO	LIGHTS OFF CALL
32	ANALOG INPUT 1 (+)	CABINET NEUTRAL CURRENT
33	ANALOG INPUT 1 (-)	CABINET NEUTRAL CURRENT
34	ANALOG INPUT 2 (+)	CABINET SERVICE VOLTAGE
35	ANALOG INPUT 2 (-)	CABINET SERVICE VOLTAGE
40	P. GROUND	GROUND

ALL ANALOG INPUTS WILL BE 4-20 MA ONLY, DIGITAL OUTPUT RELAYS WILL BE ELECTRICALLY ENERGIZED AND MOMENTARILY HELD  
 MIXED I/O MODULE MODEL NUMBER V436

USER NAME = korabmp	DESIGNED - VN	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION				LIGHTING CONTROLLER, BASE MOUNTED, 480VOLT, 200AMP (DUAL) RADIO SCADA - FIBER OPTIC PROVISION				F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE =	CHECKED - RP/MG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION				IDOT D1-BUREAU OF ELECTRICAL DETAIL STANDARDS					2020-236-L	COOK/LAKE	173	157
PLOT DATE = 7/2/2022	DATE - 7/1/2022	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION				SCALE: SHEET 76 OF 86 SHEETS STA. TO STA.				CONTRACT NO. 62N05				



USER NAME = korabmp	DESIGNED - VN	REVISED -
PLOT SCALE =	CHECKED - RP/MG	REVISED -
PLOT DATE = 7/2/2022	DATE - 7/1/2022	REVISED -

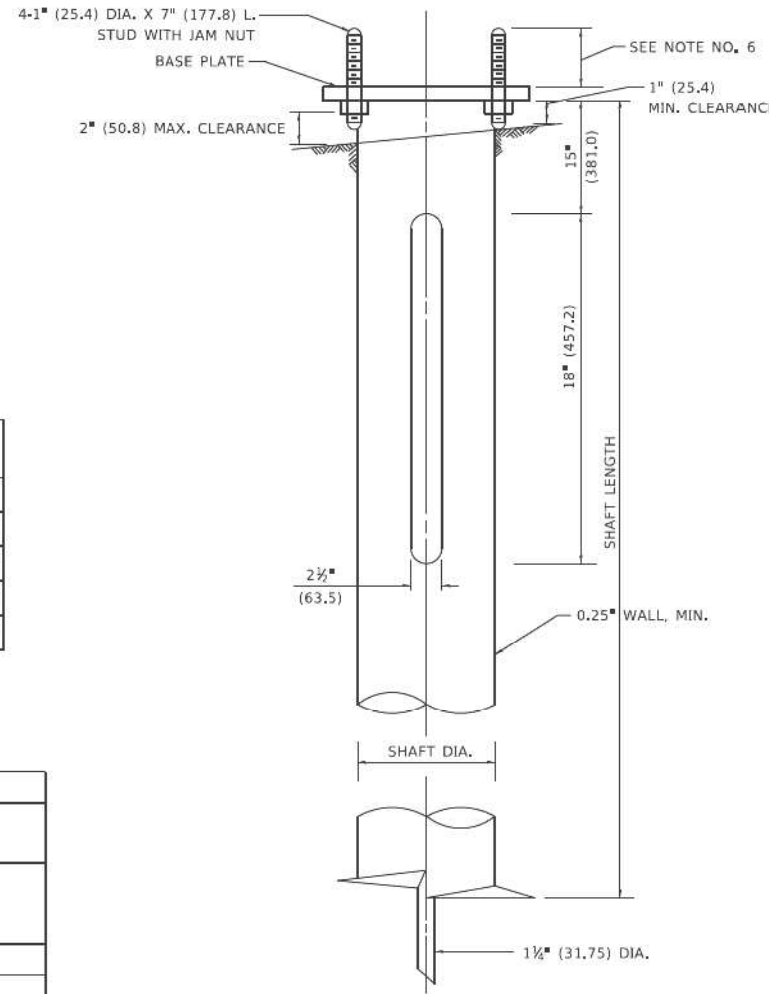
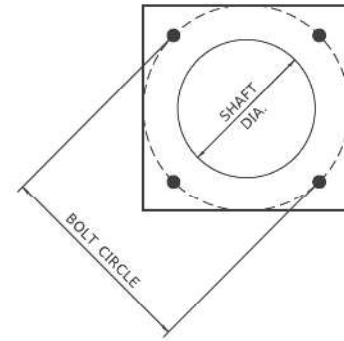
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

IDOT D1-BUREAU OF ELECTRICAL DETAIL STANDARDS  
 SCALE: SHEET 76 OF 86 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2020-236-L	COOK/LAKE	173	157
CONTRACT NO. 62N05				
ILLINOIS FED. AID PROJECT				







**NOTES**

1. ALL DIMENSION IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
2. ALL MATERIAL SHALL BE GALVINIZED ACCORDING TO AASHTO M111, UNLESS OTHERWISE SPECIFIED.
3. ALL WELDS SHALL BE CONTINUOUS AND NOT LESS THAN 1#4 (6.35 mm) FILLET WELDS. THE WELDED FOUNDATION SHALL BE CAPABLE OF WITHSTANDING 10,000 FT/LBS (13558.18 n.m) OF INSTALLATION TORQUE APPLIED ABOUT THE AXIS OF THE FOUNDATION.
4. THE HELIX FOUNDATION SHAFT SHALL BE INSTALLED VERTICAL AND THE BASE PLATE SHALL BE IN LEVEL. THE BREAKAWAY COUPLINGS AND HARDWARE SHALL NOT BE USED TO ALIGN THE POLE INSTALLATION.
5. THE CABLE TRENCH SHALL BE BACKFILLED AND FIRMLY COMPACTED BEFORE THE INSTALLATION OF THE LIGHT POLE.
6. THE CONTRACTOR SHALL COORDINATE EXTENSION OF ANCHOR BOLTS ABOVE TOP OF THE BASE PLATE WITH THE BREAKAWAY DEVICE MANUFACTURER'S REQUIREMENTS.
7. ANY VOIDS WITHIN THE METAL FOUNDATION SHALL BE FILLED WITH FINE AGGREGATE.
8. METAL FOUNDATIONS SHALL BE INSTALLED IN UNDISTURBED SOIL. PREDRILLING A PILOT HOLE AND/OR BACKFILLING AROUND THE FOUNDATION IS NOT ALLOWED.
9. THE METAL FOUNDATION SHALL NOT BE INSTALLED TO A TORQUE WHICH EXCEEDS THE MANUFACTURER'S MAXIMUM TORQUE RATING NOR SHALL IT BE INSTALLED TO AN INSTALLATION TORQUE VALUE OF LESS THAN 3,500 FT LB (4,750 KNM), METAL FOUNDATIONS THAT ARE NOT INSTALLED TO FULL INSTALLATION DEPTH OR DO NOT ACHIEVE THE MINIMUM INSTALLATION TORQUE SHALL BE REMOVED AND REPLACED WITH A CONCRETE FOUNDATION AT NO ADDITIONAL COST.
10. THE BASEPLATE SHALL BE PERPENDICULAR TO THE SHAFT AXIS ( $\pm 1^\circ$ ) AND THE HOLE CENTERLINE SHALL BE CONCENTRIC ( $\pm 0.188$ ) TO THE SHAFT AXIS.
11. THE PILOT POINT AND SHAFT AXIS SHALL BE CONCENTRIC ( $\pm 0.125$ ) AND IN LINE ( $\pm 2^\circ$ ).
12. THE BASEPLATE SHALL BE STAMPED WITH THE MANUFACTURERS NAME AND DATE OF MANUFACTURE.

**HELIX FOUNDATION SIZE**

POLE MOUNTING HEIGHT	BOLT CIRCLE	SHAFT DIAMETER	SHAFT LENGTH	BASEPLATE
30 FT.	11 1/2"	8 3/8"	6 FT.	12"x12"x1"
31 FT.-35 FT.	11 1/2"	8 3/8"	6 FT.	12"x12"x1"
36 FT.-40 FT.	15"	8 3/8"	6 FT.	15"x15"x1 1/4"
41 FT.-45 FT.	15"	8 3/8"	6 FT.	15"x15"x1 1/4"
46 FT.-50 FT.	15"	10"	8 FT.	15"x15"x1 1/4"

**METAL HELIX FOUNDATION MATERIALS**

ITEM	MATERIAL REQUIREMENT
BASEPLATE	AASHTO M 270M, GRADE 36 (M270M, GRADE 250)
SHAFT	ASTM A 252, GRADE 2 (PHOSPHOROUS 0.04% MAXIMUM, SULFUR 0.05% MAXIMUM)
HELIX SCREW	AASHTO M 183 (ASTM A 635)
PILOT POINT	AASHTO M 270 (ASTM A 575)
ANCHOR RODS/STUDS	AASHTO M 314 (ASTM F 1554)
HEXAGON NUTS	AASHTO M 291M (ASTM A 563) GRADE DH, OR AASHTO M 292 (ASTM A 194) GRADE 2H
WASHERS	AASHTO M 293 (ASTM F 436)

USER NAME = footeryj	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>LIGHT POLE FOUNDATION, METAL</b>				F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 3/8" = 1'-0"	DRAWN - DLB	REVISED -						SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.				BE-305 CONTRACT NO.
PLOT DATE = 4/19/2019	CHECKED -	REVISED -		ILLINOIS FED. AID PROJECT								
	DATE - 02-27-07	REVISED -										

LT-78



USER NAME = korabmp	DESIGNED - VN	REVISED -
	DRAWN - VN	REVISED -
PLOT SCALE =	CHECKED - RP/MG	REVISED -
PLOT DATE = 7/2/2022	DATE - 7/1/2022	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>IDOT D1-BUREAU OF ELECTRICAL DETAIL STANDARDS</b>			
SCALE: SHEET 78 OF 86 SHEETS STA. TO STA.			

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2020-236-L	COOK/LAKE	173	159
CONTRACT NO. 62N05				
ILLINOIS FED. AID PROJECT				

C:\Users\korabmp\Documents\CAD\2020\2020-236-L\94.U.S. 41\CAD\2020\2020-236-L\Lighting Plans (50 Scale).dgn  
 Project: 2020-236-L, 94.U.S. 41, ILLINOIS DEPARTMENT OF TRANSPORTATION, LIGHTING PLANS (50 SCALE)  
 User: korabmp, Date: 7/2/2022, Time: 10:00 AM  
 Plot: 7/2/2022, 10:00 AM, Plot Scale: 3/8" = 1'-0", Plot Date: 7/2/2022





ps:\Project\user\ER\_jacobs\csmh01\Documents\C9206600\_1-94\_ILS-41\C9206600\709ecedd\703\elect\Lighting Plans (50 Scale).62N05 North Conventional\H08.D62N05-plt-standard-08.dgn

# SHEET INTENTIONALLY LEFT BLANK

LT-80



USER NAME = korabmp	DESIGNED - VN	REVISED -
	DRAWN - VN	REVISED -
PLOT SCALE =	CHECKED - RP/MG	REVISED -
PLOT DATE = 8/12/2022	DATE - 7/11/2022	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**IDOT D1-BUREAU OF ELECTRICAL DETAIL STANDARDS**

SCALE: SHEET 80 OF 86 SHEETS STA. TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2020-236-L	COOK/LAKE	173	161
CONTRACT NO. 62N05				
ILLINOIS FED. AID PROJECT				

ps:\Project\user\ER\_jacobs\csmh01\Documents\C9206600\_1-94\_ILS-41\C9206600\_700\cadd\703\select\Lighting Plans (50 Scale).E2N05 North Conventional\RP9.D62N05=ht-standard-P9.dgn

# SHEET INTENTIONALLY LEFT BLANK

LT-81



USER NAME = korabmp	DESIGNED - VN	REVISED -
	DRAWN - VN	REVISED -
PLOT SCALE =	CHECKED - RP/MG	REVISED -
PLOT DATE = 8/12/2022	DATE - 7/11/2022	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

IDOT D1-BUREAU OF ELECTRICAL DETAIL STANDARDS

SCALE: SHEET 81 OF 86 SHEETS STA. TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2020-236-L	COOK/LAKE	173	162
CONTRACT NO. 62N05				
ILLINOIS FED. AID PROJECT				

ps:\Project\user\ER\_jacobs\csmh01\Documents\C9206600\_1-94\_ILS-41\C9206600\_706ecedd\703\elect\Lighting Plans (50 Scale).d2N05 North Conventional\H10\_0162N05-htz-standard-10.dgn

**SHEET INTENTIONALLY LEFT BLANK**

LT-82



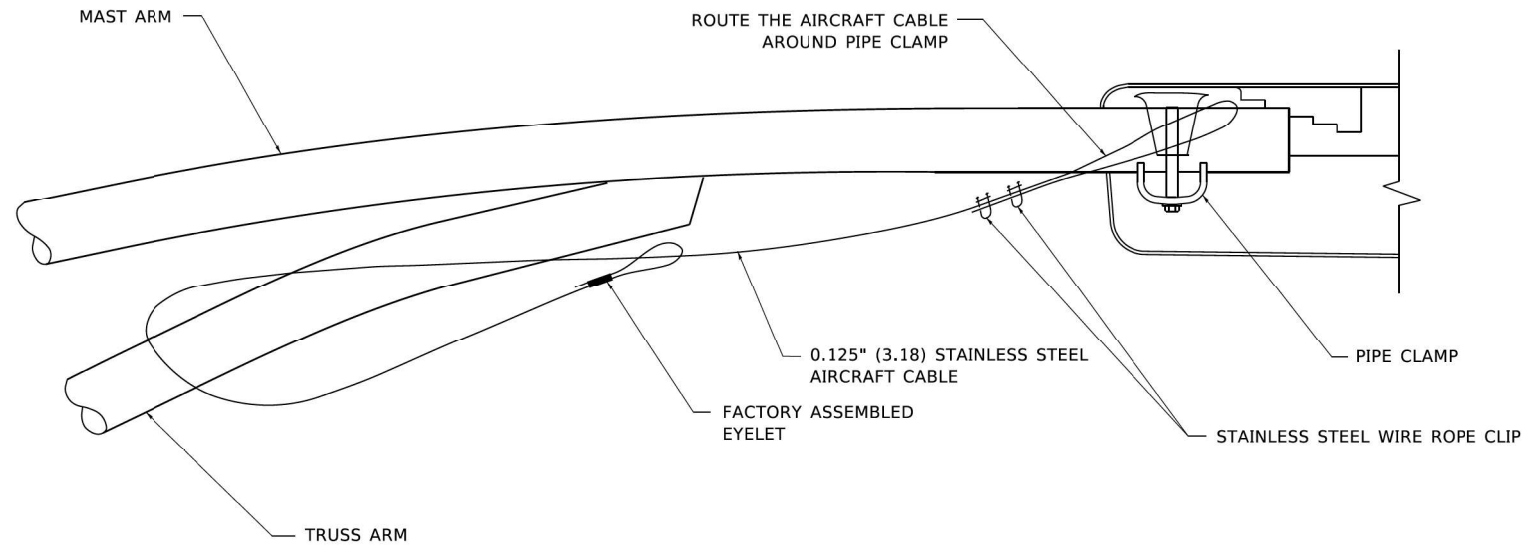
USER NAME = korabmp	DESIGNED - VN	REVISED -
	DRAWN - VN	REVISED -
PLOT SCALE =	CHECKED - RP/MG	REVISED -
PLOT DATE = 8/12/2022	DATE - 7/11/2022	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

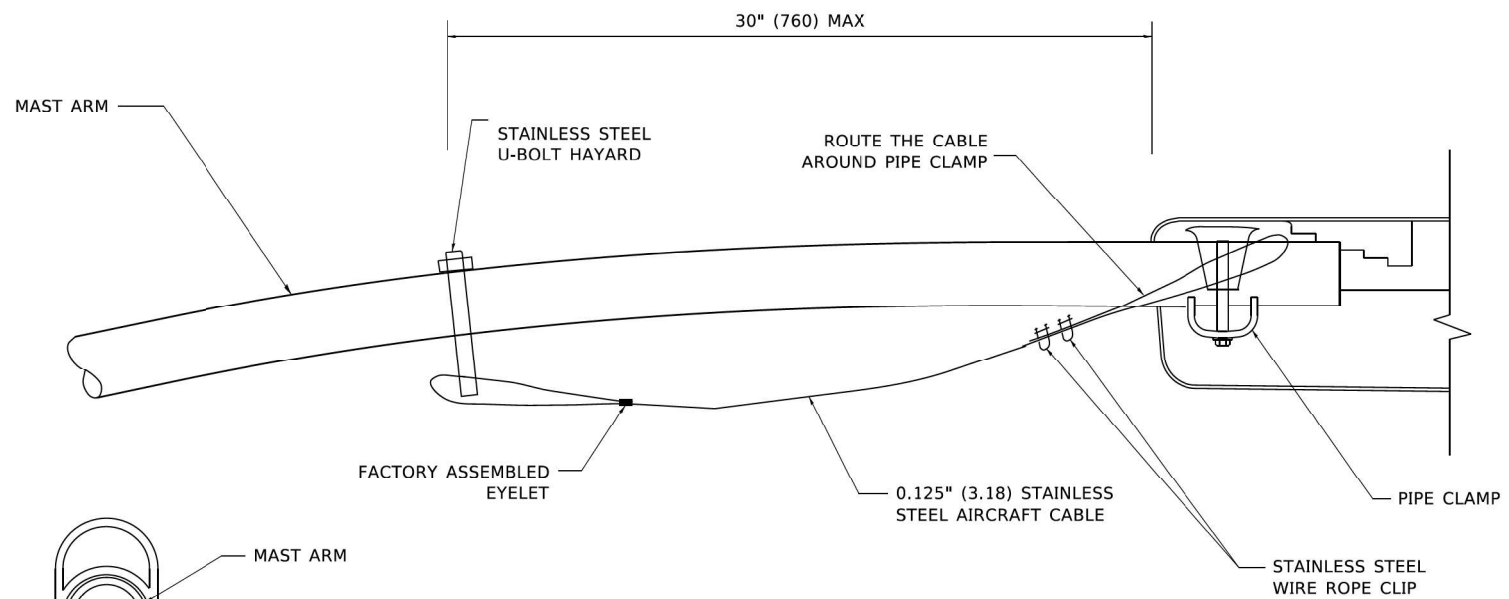
**IDOT D1-BUREAU OF ELECTRICAL DETAIL STANDARDS**

SCALE: SHEET 82 OF 86 SHEETS STA. TO STA.

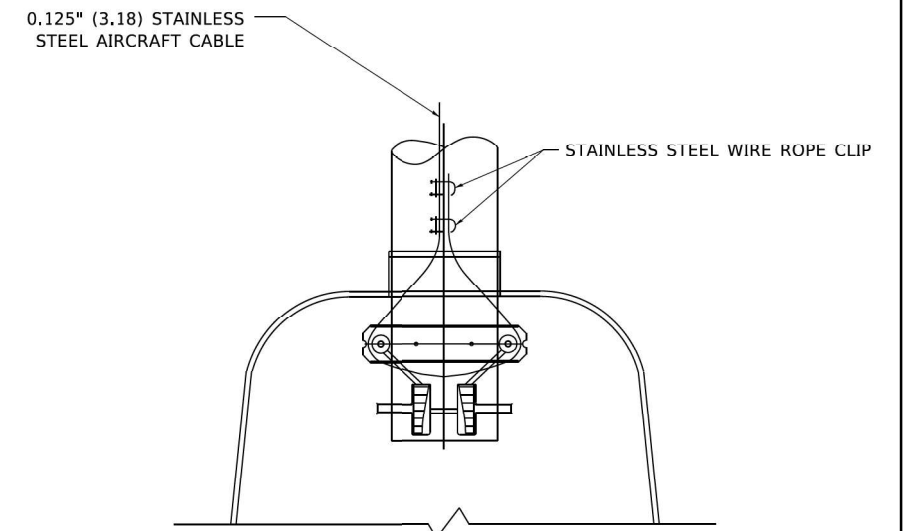
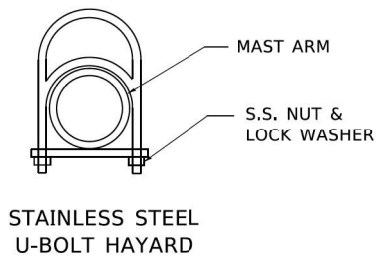
F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2020-236-L	COOK/LAKE	173	163
CONTRACT NO. 62N05				
ILLINOIS FED. AID PROJECT				



**SIDE VIEW (TRUSS ARM)**  
**N.T.S.**



**SIDE VIEW (SINGLE MEMBER OR DAVIT ARM)**  
**N.T.S.**



**BOTTOM VIEW**  
**N.T.S.**

**NOTES:**

1. ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN.
2. CONTRACTOR SHALL ADJUST THE WIRE CLIP TO ELIMINATE ANY SLACK FROM THE WIRE ROPE.
3. THE 0.125" (3.18) STAINLESS STEEL AIRCRAFT CABLE SHALL REMAIN VISIBLE FROM THE GROUND LEVEL.
4. THE BREAKING STRENGTH OF THE CABLE SHALL BE 1700 LBS. MIN.

USER NAME = footemj	DESIGNED -	REVISED - 08-08-03	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>				<b>LUMINAIRE SAFETY CABLE ASSEMBLY</b>				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 50,000' / in.	DRAWN -	REVISED -									SCALE: NONE	SHEET 1	OF 1	SHEETS	STA.
PLOT DATE = 4/19/2019	CHECKED -	REVISED -													
	DATE -	REVISED -													



USER NAME = korabmp	DESIGNED - VN	REVISED -
	DRAWN - VN	REVISED -
PLOT SCALE =	CHECKED - RP/MG	REVISED -
PLOT DATE = 8/12/2022	DATE - 7/1/2022	REVISED -

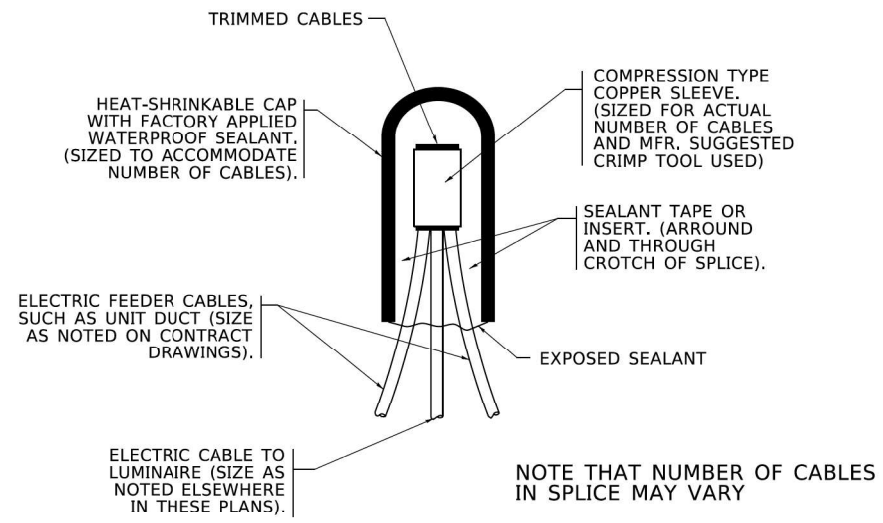
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**IDOT D1-BUREAU OF ELECTRICAL DETAIL STANDARDS**

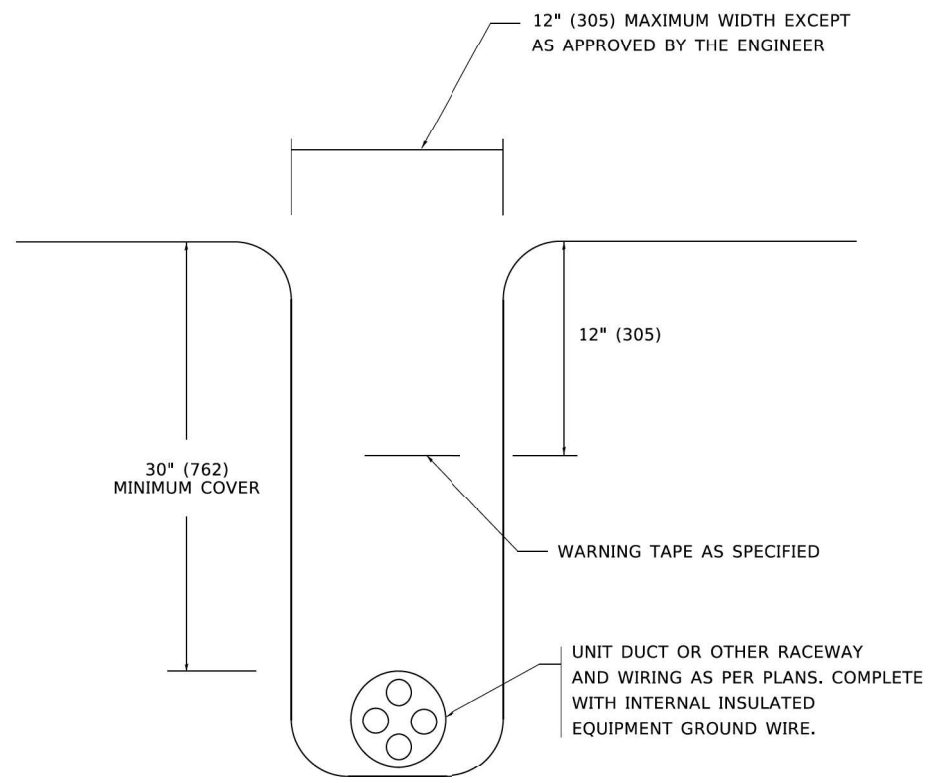
SCALE: SHEET 83 OF 86 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2020-236-L	COOK/LAKE	173	164
CONTRACT NO. 62N05				
ILLINOIS FED. AID PROJECT				

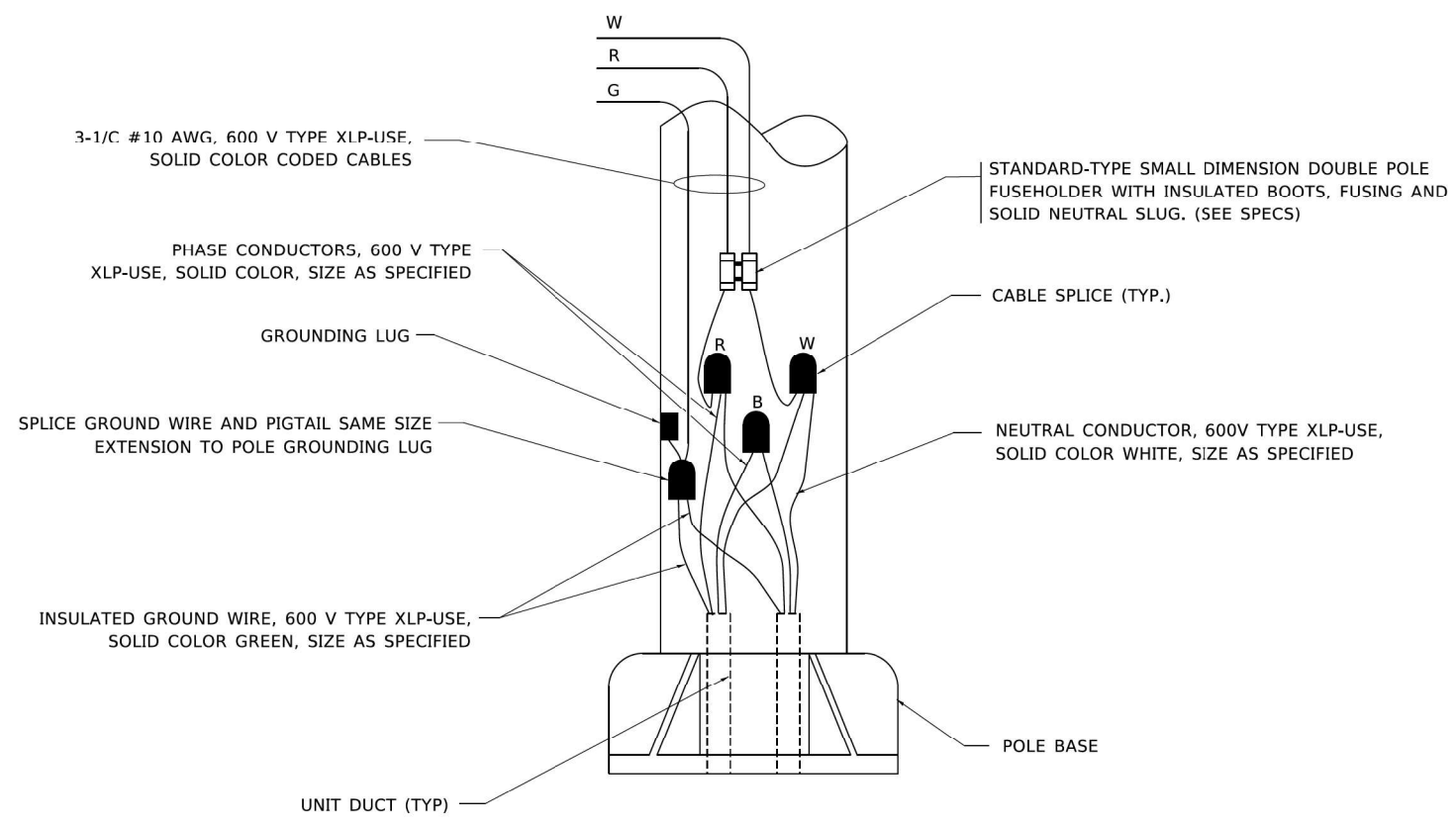
p:\Projects\user\ER\_jacobson\03\_documents\C9226688\_1-94.ILL.41\C9226688\_726.ecad\7263\select\Lighting Plans (50\_Scales)62N05\_North\_Conventional\HLL.D1622685-ah+standard-1.dgn  
 FILE NAME: p:\Projects\user\ER\_jacobson\03\_documents\IDOT\_Offices\Detailing\Projects\HLL\2263\select\Lighting Plans (50\_Scales)62N05\_North\_Conventional\HLL.D1622685-ah+standard-1.dgn



**TYPICAL SPLICE DETAIL**  
**N.T.S.**



**TYPICAL WIRING IN TRENCH DETAIL**  
**N.T.S.**



**POLE WIRING DETAIL**  
**N.T.S.**

MODEL: Default  
 FILE NAME: p:\workroom\dot\illinois\pwr\IDOT\Documents\IDOT\_Offices\IDOT\Projects\IDOT\22\23\CA\DD\AA\CP\sheet\02.dgn

USER NAME = leysa	DESIGNED -	REVISED - 02/04/2020	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>				<b>MISC. ELECTRICAL DETAILS SHEET A</b>				F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 50,000' / in.	DRAWN -	REVISED -									SCALE: NONE	SHEET 1	OF 1	SHEETS	STA.
PLOT DATE = 3/2/2020	CHECKED -	REVISED -									CONTRACT NO.				
	DATE - 08/08/2003	REVISED -									ILLINOIS FED. AID PROJECT				

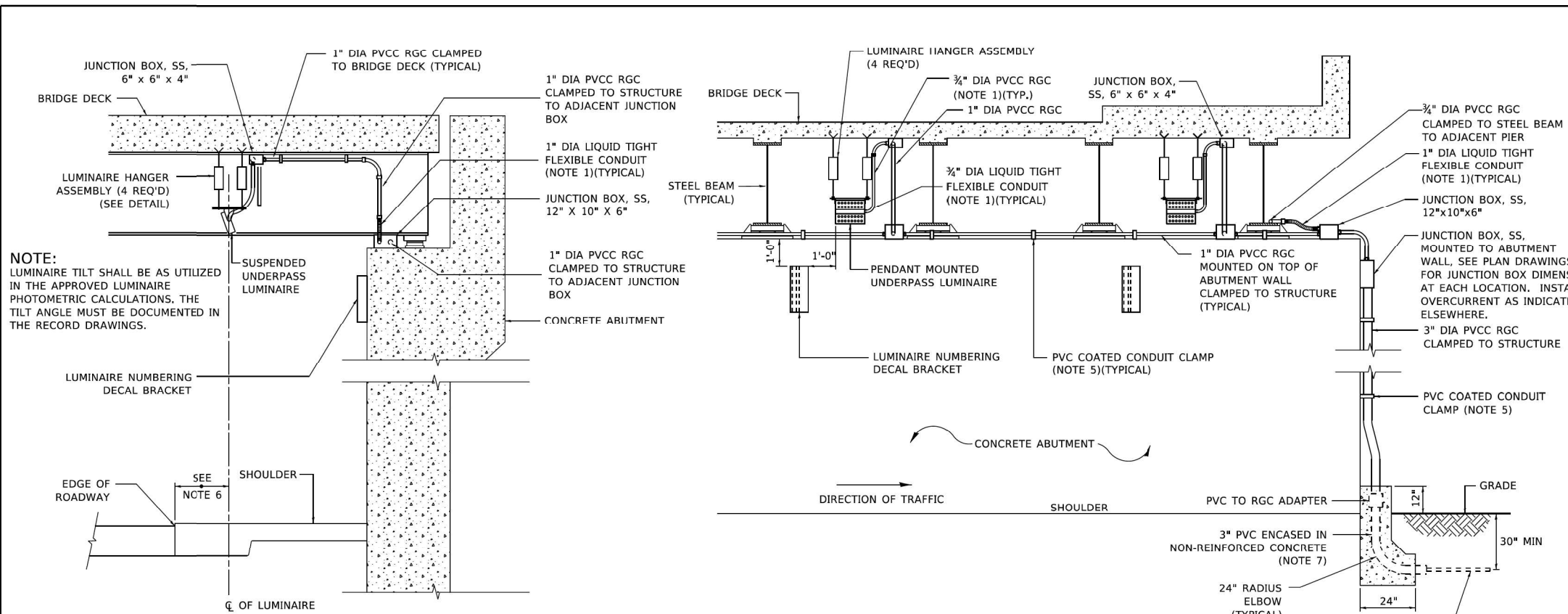


USER NAME = korabmp	DESIGNED - VN	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>				<b>IDOT D1-BUREAU OF ELECTRICAL DETAIL STANDARDS</b>				F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE =	DRAWN - VN	REVISED -									SCALE:	SHEET 84	OF 86	SHEETS	STA.
PLOT DATE = 8/12/2022	CHECKED - RP/MG	REVISED -									CONTRACT NO. 62N05				
	DATE - 7/1/2022	REVISED -									ILLINOIS FED. AID PROJECT				

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

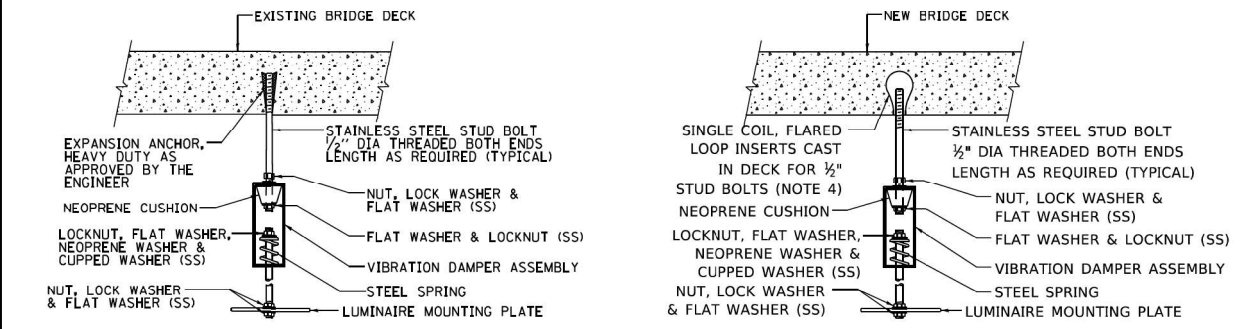
<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>				<b>IDOT D1-BUREAU OF ELECTRICAL DETAIL STANDARDS</b>				F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
								SCALE:	SHEET 84	OF 86	SHEETS	STA.	TO STA.
								CONTRACT NO. 62N05					
								ILLINOIS FED. AID PROJECT					

<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>				<b>IDOT D1-BUREAU OF ELECTRICAL DETAIL STANDARDS</b>				F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
								SCALE:	SHEET 84	OF 86	SHEETS	STA.	TO STA.
								CONTRACT NO. 62N05					
								ILLINOIS FED. AID PROJECT					

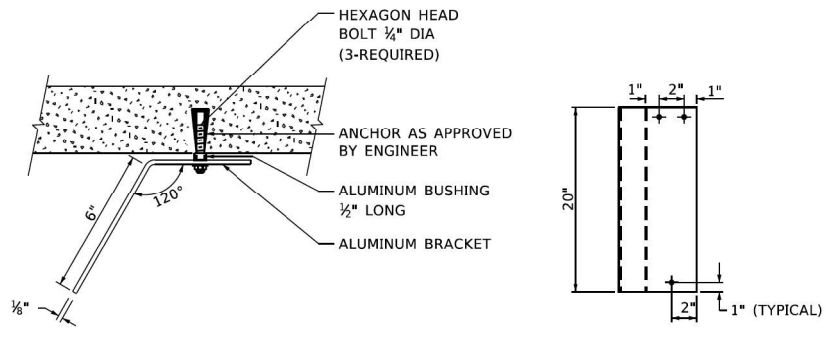


**NOTE:**  
LUMINAIRE TILT SHALL BE AS UTILIZED IN THE APPROVED LUMINAIRE PHOTOMETRIC CALCULATIONS. THE TILT ANGLE MUST BE DOCUMENTED IN THE RECORD DRAWINGS.

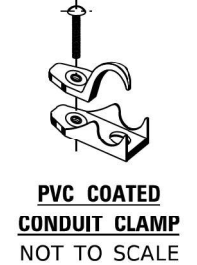
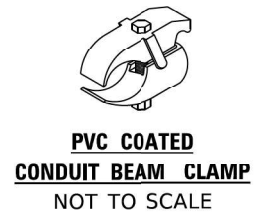
- NOTES:**
- LIQUID TIGHT FLEXIBLE METAL CONDUIT, MAXIMUM LENGTH 6'-0", TYPICAL FOR EACH INSTANCE AS SHOWN. PROVIDE PVC COATED RIGID GALVANIZED STEEL CONDUIT AS REQUIRED NOT TO EXCEED 6'-0" OF FLEXIBLE LIQUID TIGHT METAL CONDUIT. LIQUID TIGHT FLEXIBLE METAL CONDUIT WILL BE INCLUDED IN THE COST OF THE CONDUIT ATTACHED TO STRUCTURE, OF THE CORRESPONDING DIA., GALVANIZED STEEL, PVC COATED PAY ITEM EXCEPT THAT " DIA. CONDUIT AND " DIA. FLEXIBLE CONDUIT SHALL BE INCLUDED IN THE COST OF UNDERPASS LUMINAIRE INSTALLATION.
  - SEE UNDERPASS LIGHTING PLANS FOR INSTALLATION LOCATION OF UNDERPASS LIGHTING LUMINAIRES.
  - THE CONTRACTOR SHALL USE APPROVED SINGLE COIL FLARED LOOP INSERTS WHEN SUSPENDED MOUNTING AN UNDERPASS LUMINAIRE TO A NEW BRIDGE DECK. THE FLARED LOOP INSERTS MUST BE CAST INTO THE CONCRETE DECK. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND COORDINATING THE INSERT LOCATIONS FOR MOUNTING THE UNDERPASS LIGHTING SYSTEM AS SHOWN ON THE PLANS WITH THE BRIDGE DECK CONTRACTOR. SEE DETAIL.
  - THE UNDERPASS LUMINAIRE HANGER ASSEMBLY COMPLETE WITH HEAVY DUTY ANCHORS/INSERTS AND ALL APPLICABLE HARDWARE SHALL BE INCLUDED IN THE COST OF THE UNDERPASS LUMINAIRE PAY ITEM.
  - SECURE THE CONDUIT WITH PVC COATED CONDUIT CLAMPS OR CONDUIT BEAM CLAMPS AS SHOWN AT 5'-0" INTERVALS FOR LATERALS AND WITHIN 2'-0" MAXIMUM FROM ANY JUNCTION BOX, FLEXIBLE CONDUIT, OR CHANGE IN DIRECTION. ALL PVC COATED CONDUIT CLAMPS OR BEAM CLAMPS SHALL BE INCLUDED WITH THE COST OF THE "CONDUIT ATTACHED TO STRUCTURE, OF THE CORRESPONDING DIA., GALVANIZED STEEL, PVC COATED" PAY ITEM.
  - ALL UNDERPASS LUMINAIRES MUST BE CENTERED IN THE BEAM SPACE AS INDICATED ON THE PLANS UNLESS OTHERWISE DIRECTED BY THE ENGR. LUMINAIRE SETBACK SHALL BE AS INDICATED IN PLANS FOR EACH SPECIFIC UNDERPASS
  - THE CONCRETE ENCASED CONDUIT TRANSITION SHALL BE INCLUDED IN THE COST OF THE GALVANIZED RIGID STEEL CONDUIT PAY ITEMS.
  - ALL CONDUIT ATTACHED TO STRUCTURE SHALL BE PVC COATED RIGID STEEL CONDUIT (PVCC RGC) TYPICAL.
  - IN NO INSTANCE SHALL ANY UNDERPASS LUMINAIRE OR ANY OTHER ELECTRICAL EQUIPMENT BE INSTALLED BELOW THE ELEVATION OF THE BOTTOM OF THE BRIDGE BEAM WHEN OVER ANY PAVEMENT (ROADWAY OR SHOULDER).



**TYPICAL LUMINAIRE HANGER ASSEMBLY DETAILS**



**LUMINAIRE NUMBERING DECAL BRACKET**  
NOT TO SCALE



USER NAME = gaglianob	DESIGNED -	REVISED - 12-12-05
PLOT SCALE = 100.0000 "/>		

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>SUSPENDED MOUNT LED UNDERPASS LUMINAIRE INSTALLATION DETAILS</b>			
SCALE: NONE	SHEET 1 OF 1 SHEETS	STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	BE-901			
CONTRACT NO.			ILLINOIS FED. AID PROJECT	

USER NAME = korabmp	DESIGNED - VN	REVISED -
PLOT SCALE =	CHECKED - RP/MG	REVISED -
PLOT DATE = 8/12/2022	DATE - 7/1/2022	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>IDOT D1-BUREAU OF ELECTRICAL DETAIL STANDARDS</b>			
SCALE:	SHEET 85 OF 86 SHEETS	STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2020-236-L	COOK/LAKE	173	166
CONTRACT NO. 62N05			ILLINOIS FED. AID PROJECT	

ps:\Project\user\ER\_jacobs\comb\01\Documents\C9226680\_1-94\_ILS-41\C9226680\_726ecedd\703\elect\Lighting Plans (50 Scale).d2N05 North Conventional\H14.D1E2N05-htz-standard-14.dgn

# SHEET INTENTIONALLY LEFT BLANK

LT-86



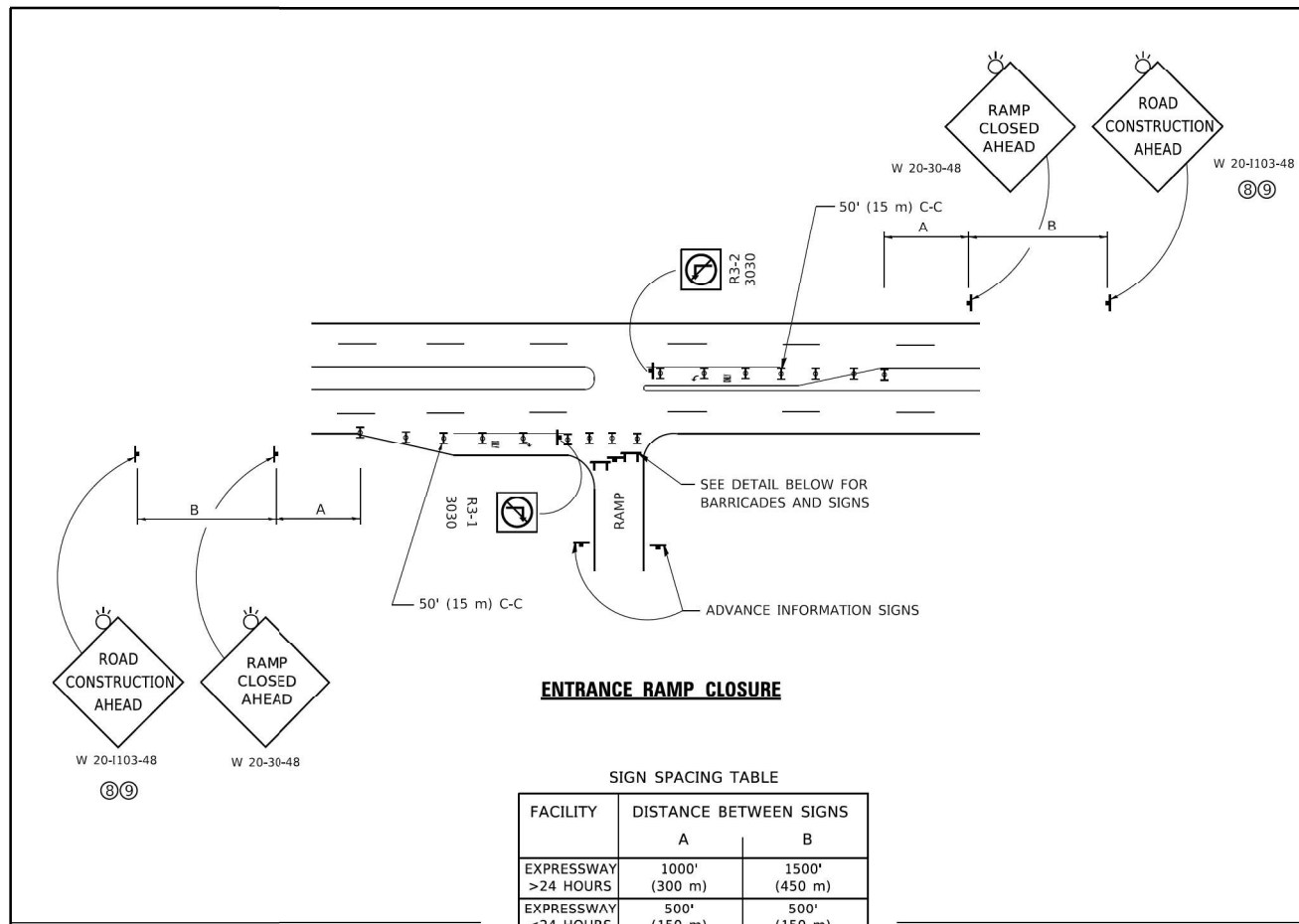
USER NAME = korabmp	DESIGNED - VN	REVISED -
	DRAWN - VN	REVISED -
PLOT SCALE =	CHECKED - RP/MG	REVISED -
PLOT DATE = 8/12/2022	DATE - 7/11/2022	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

IDOT D1-BUREAU OF ELECTRICAL DETAIL STANDARDS

SCALE: SHEET 86 OF 86 SHEETS STA. TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2020-236-L	COOK/LAKE	173	167
CONTRACT NO. 62N05				
ILLINOIS FED. AID PROJECT				

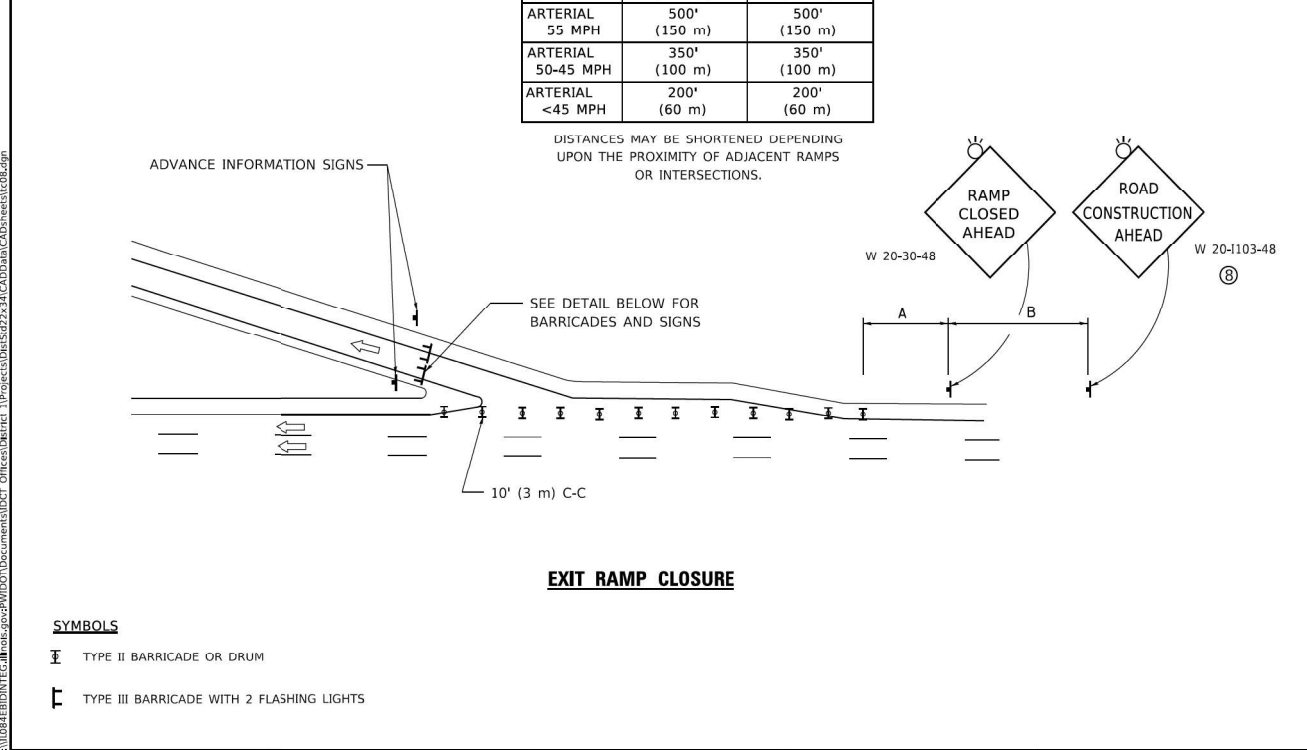


**ENTRANCE RAMP CLOSURE**

**SIGN SPACING TABLE**

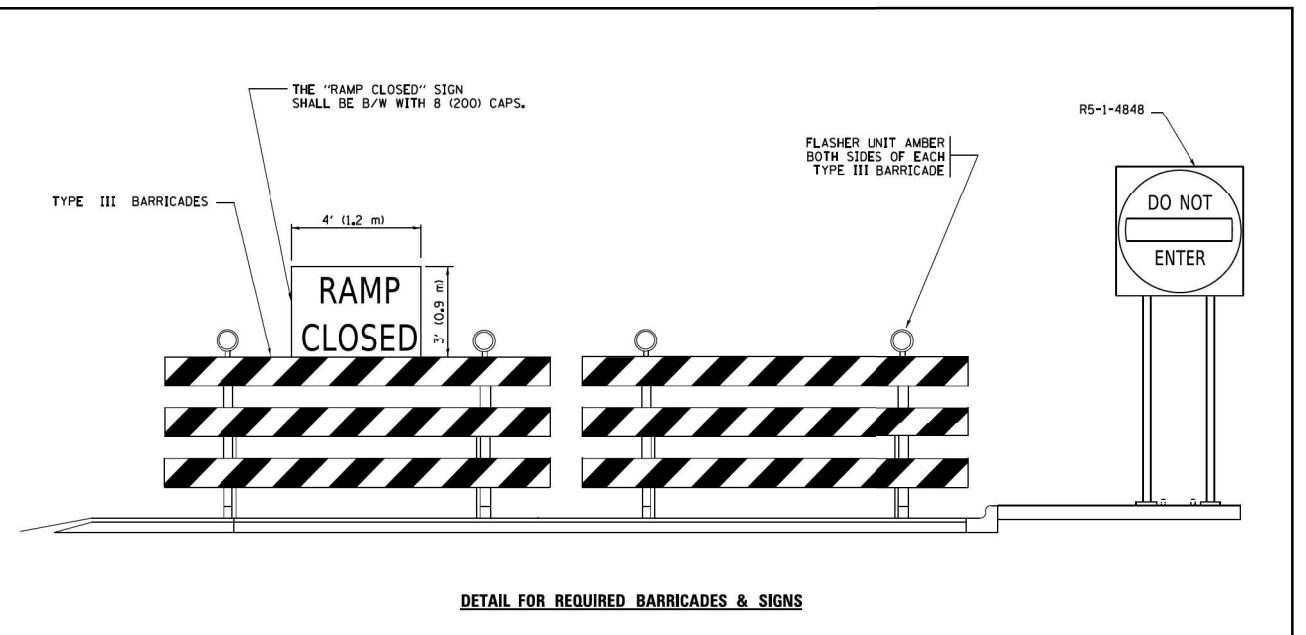
FACILITY	DISTANCE BETWEEN SIGNS	
	A	B
EXPRESSWAY >24 HOURS	1000' (300 m)	1500' (450 m)
EXPRESSWAY ≤24 HOURS	500' (150 m)	500' (150 m)
ARTERIAL 55 MPH	500' (150 m)	500' (150 m)
ARTERIAL 50-45 MPH	350' (100 m)	350' (100 m)
ARTERIAL <45 MPH	200' (60 m)	200' (60 m)

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

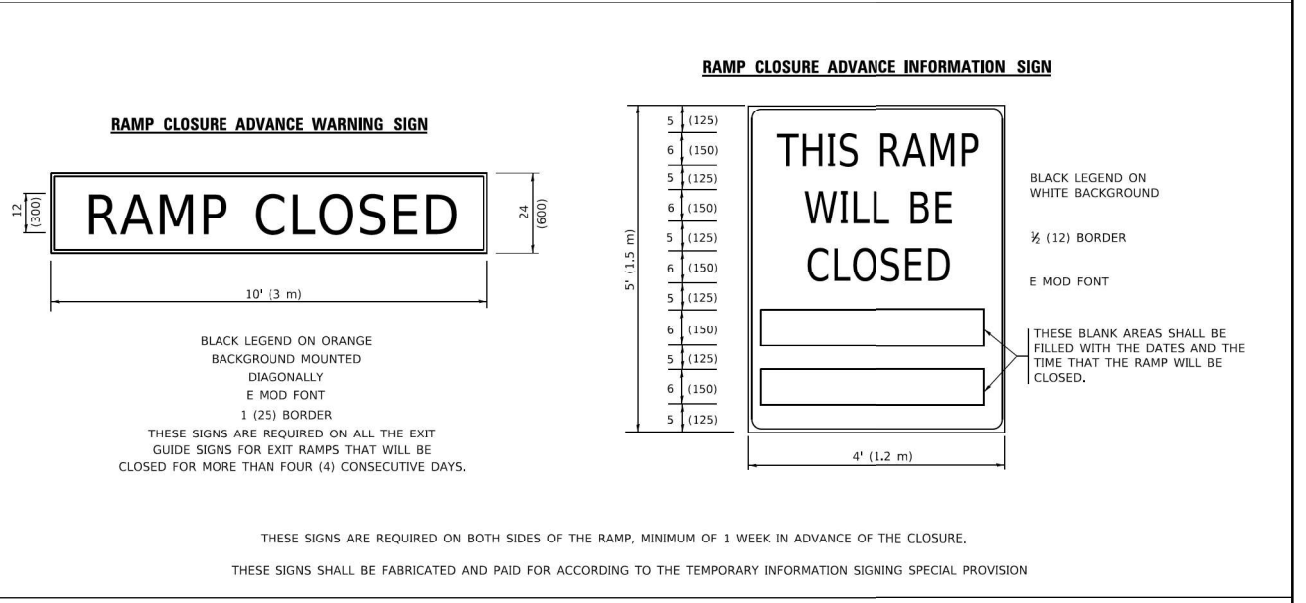


**EXIT RAMP CLOSURE**

- SYMBOLS**
- II TYPE II BARRICADE OR DRUM
  - III TYPE III BARRICADE WITH 2 FLASHING LIGHTS



**DETAIL FOR REQUIRED BARRICADES & SIGNS**



- GENERAL NOTES:**
- CONES MAY BE SUBSTITUTED FOR DRUMS OR TYPE II BARRICADES DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (700) HIGH.
  - VERTICAL BARRICADES SHALL NOT BE USED FOR RAMP CLOSURES.
  - A FLAGGER SHALL BE POSITIONED AT EACH CLOSED RAMP THAT IS OPEN TO CONSTRUCTION VEHICLES, PRECEDED BY A W20-7 FLAGGER WARNING SIGN.
  - ALL ROUTE MARKERS AND TRAILBLAZER ASSEMBLIES WHICH DIRECT MOTORISTS TO A CLOSED ENTRANCE RAMP SHALL BE COVERED WHEN THE RAMP IS CLOSED FOR MORE THAN FOUR (4) DAYS.
  - THE SIGNING AND BARRICADING WHICH IS REQUIRED BY THIS DETAIL SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS).
  - AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL RAMP CLOSURES.
  - THE RAMP CLOSURE ADVANCE INFORMATION SIGNS SHALL BE ERECTED IF THE CLOSURE TIME EXCEEDS TWENTY-FOUR (24) HOURS. ADDITIONAL ADVANCE WARNING SIGNS ON EXIT GUIDE SIGNING WILL BE REQUIRED FOR EXIT RAMP CLOSURES THAT EXCEED FOUR (4) DAYS IN LENGTH.
  - ROAD CONSTRUCTION AHEAD SIGNS MAY BE OMITTED WHEN THIS DETAIL IS USED IN CONJUNCTION WITH OTHER TRAFFIC CONTROL THAT ALREADY INCLUDES A ROAD CONSTRUCTION AHEAD SIGN.
  - ARTERIAL ROAD CONSTRUCTION AHEAD SIGNS SHALL BE INSTALLED ON THE LEFT SIDE OF TRAFFIC IF THE MEDIAN IS MORE THAN 10 FT WIDE.

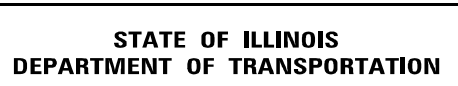
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

USER NAME = footej	DESIGNED - D.W.S.	REVISED - S.P.B_01-07	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ENTRANCE AND EXIT RAMP CLOSURE DETAILS			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 50.0000" / in.	CHECKED -	REVISED - S.P.B_12-09		SCALE: NONE	SHEET 1	OF 1 SHEETS	STA.	TO STA.	TC-08	CONTRACT NO.	
PLOT DATE = 3/4/2019	DATE - 02-83	REVISED - M.D_06-13							ILLINOIS	FED. AID PROJECT	
		REVISED - M.D_01-18									

p:\Projects\user\ER\_jacobs\com\03\Documents\CS226680\_1-94.ILS.41\CS226680\_726680\726680\Lighting Plans (50 Scale).dgn  
 Model: Default  
 File Name: p:\Projects\user\ER\_jacobs\com\03\Documents\CS226680\_1-94.ILS.41\CS226680\_726680\726680\Lighting Plans (50 Scale).dgn  
 10/6/2019 10:22:52 AM User:footej



USER NAME = korabmp	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE =	CHECKED -	REVISED -
PLOT DATE = 8/12/2022	DATE -	REVISED -

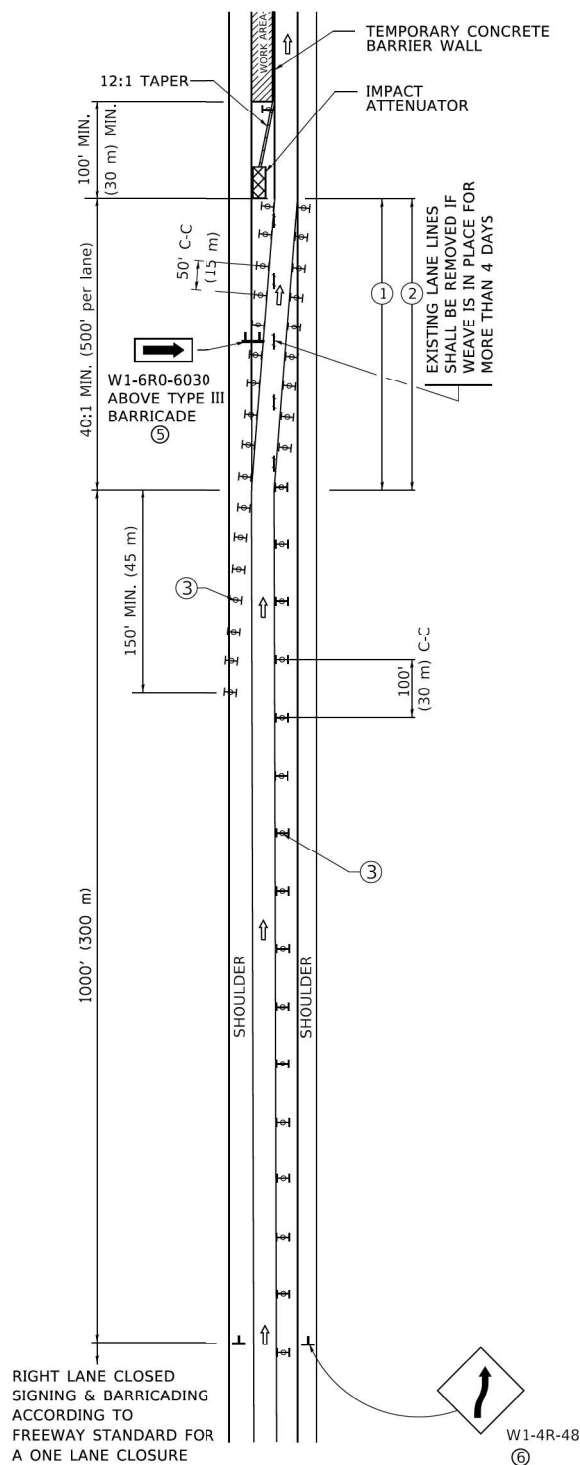


IDOT D1 STANDARDS			
SCALE:	SHEET 1	OF 1 SHEETS	STA. TO STA.

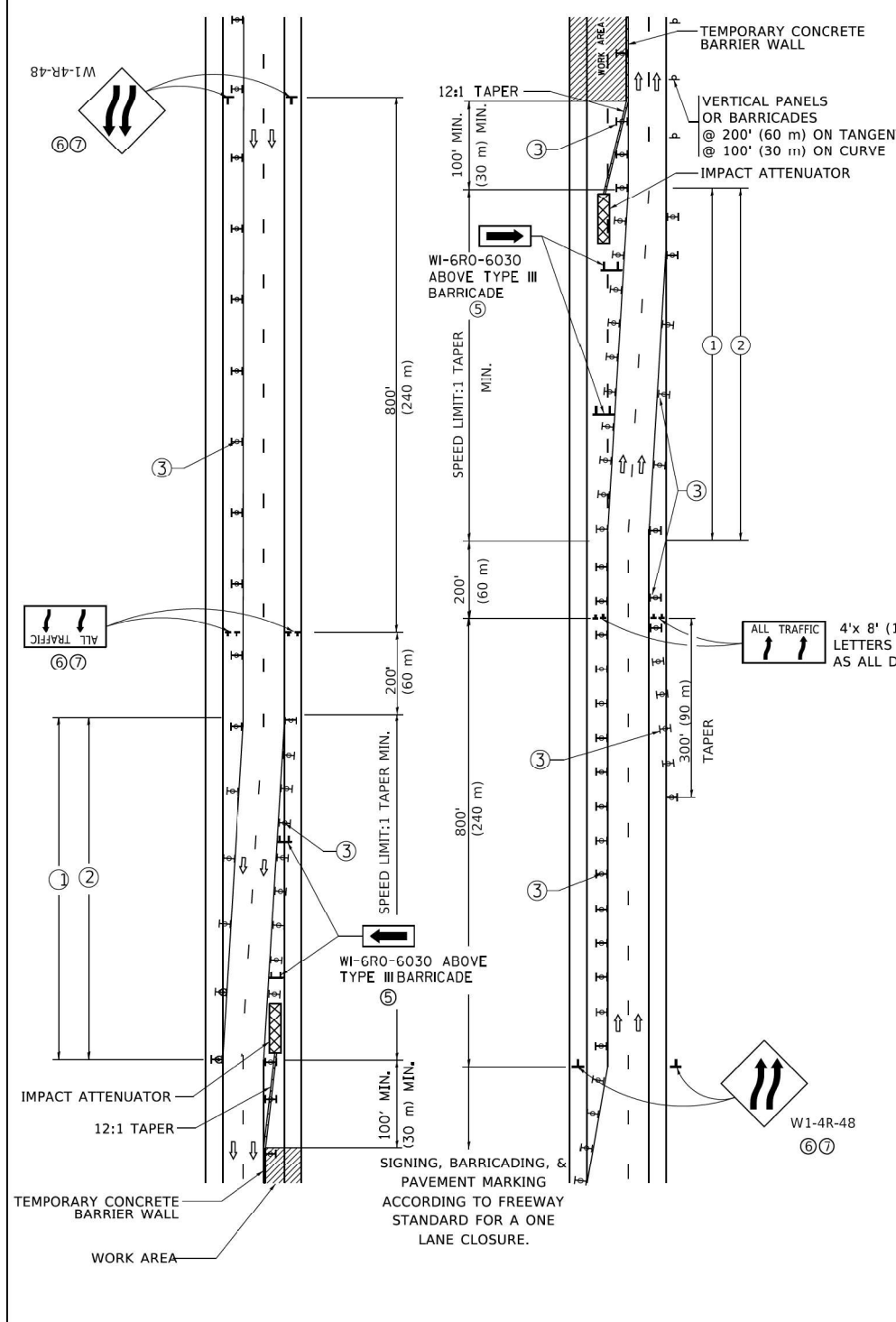
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2020-236-L	COOK/LAKE	173	168
CONTRACT NO. 62N05				
ILLINOIS FED. AID PROJECT				



### SINGLE LANE WEAVE



### MULTI-LANE WEAVE



**GENERAL NOTES:**

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

4'x 8' (1.2 m x 2.4 m); 1 (25) BORDER; 10 (250) CAPITAL LETTERS BACKGROUND SHEETING SHALL BE THE SAME AS ALL DIAMOND SHAPED CONSTRUCTION SIGNS.

**SYMBOLS**

- DIRECTION OF TRAFFIC
- WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- TYPE II BARRICADE OR DRUM WITH MONO-DIRECTIONAL STEADY BURNING LIGHT
- TEMPORARY CONCRETE BARRIER WALL
- IMPACT ATTENUATOR
- W24-1-48

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

USER NAME = footej	DESIGNED - D.W.S.	REVISED - J.A.F. 02-06
	DRAWN -	REVISED - S.P.B. 01-07
PLOT SCALE = 50,0000" / in.	CHECKED -	REVISED - S.P.B. 12-09
PLOT DATE = 3/4/2019	DATE - 02-87	REVISED - M.D. 06-13

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL DETAILS FOR  
FREEWAY SINGLE & MULTI-LANE WEAVE

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	TC-09			
CONTRACT NO.			ILLINOIS FED. AID PROJECT	

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

Jacobs

USER NAME = korabmp	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE =	CHECKED -	REVISED -
PLOT DATE = 8/12/2022	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

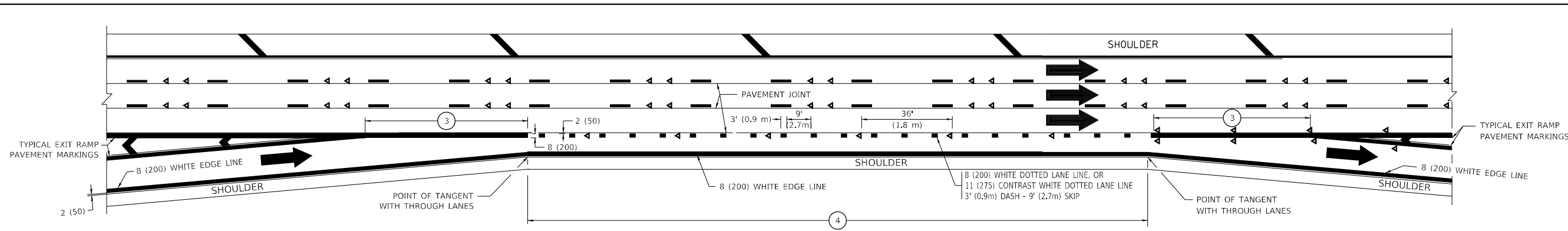
IDOT D1 STANDARDS

SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

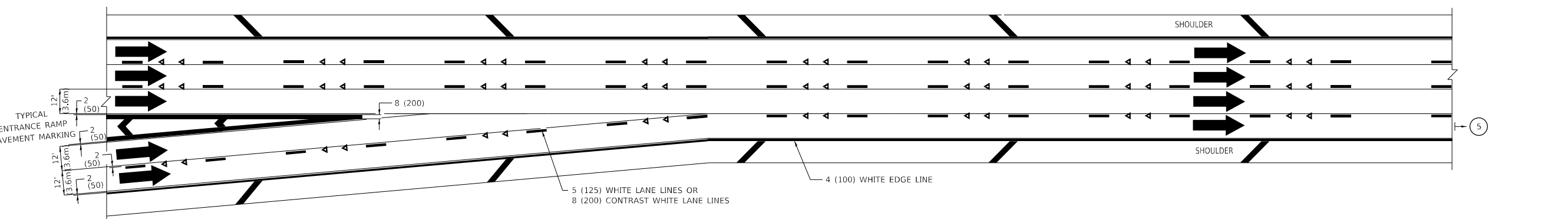
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2020-236-L	COOK/LAKE	173	169
CONTRACT NO. 62N05			ILLINOIS FED. AID PROJECT	



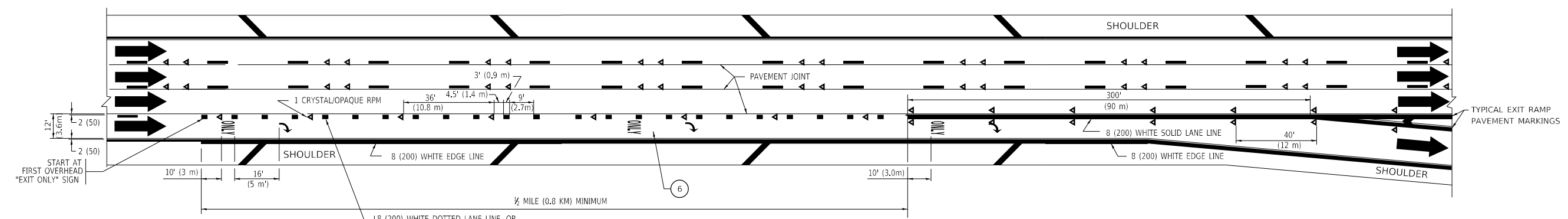




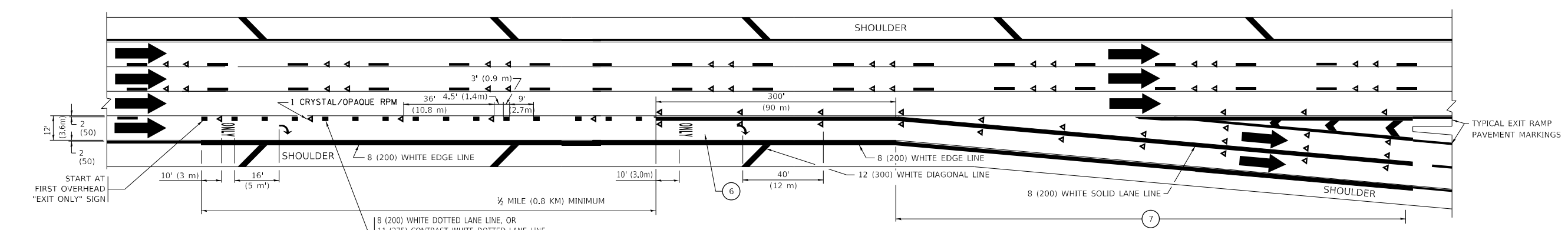
**AUXILIARY LANE MARKINGS**



**TWO LANE ENTRANCE RAMP WITH MERGE MARKINGS**



**EXIT ONLY LANE MARKINGS**



**EXIT ONLY WITH OPTION LANE MARKINGS**

- NOTES:**
- ③ OMIT WHEN LENGTH OF AUXILIARY LANE IS LESS THAN 500' (150 m).
  - ④ 8-INCH WIDE DOTTED LANE LINE MARKINGS SHALL BE USED WHEN THE LENGTH OF THE AUXILIARY LANE IS 2 MILES OR LESS.
  - ⑤ FOR TWO-LANE ENTRANCE RAMP, IF RIGHT LANE ENDS, USE TYPICAL ENTRANCE RAMP PAVEMENT MARKINGS.
  - ⑥ ONLY AND ARROWS EQUALLY SPACED, 500' (150 m) MAXIMUM SPACING. FULL SIZE LETTERS AND ARROW SHALL BE USED.
  - ⑦ CONTINUE 8" SOLID LANE LINE THROUGH EXIT TO END OF PAVED GORE.

MODEL: Default  
 FILE NAME: p:\1108\BIDDING\TEC Illinois\pov\WIDDOT\Documents\DOT Offices\District 1\Projects\DH5422-234\CAD\Drawings\CAD\Sheet\TC12.dwg  
 1/24/2019 10:32:33 AM User:footeem

USER NAME = footeem	DESIGNED - D.W.S.	REVISED - J.A.F. 02-06
	DRAWN -	REVISED - S.P.B. 01-07
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED - S.P.B. 01-10
PLOT DATE = 3/4/2019	DATE - 01-90	REVISED - M.D. 09-17

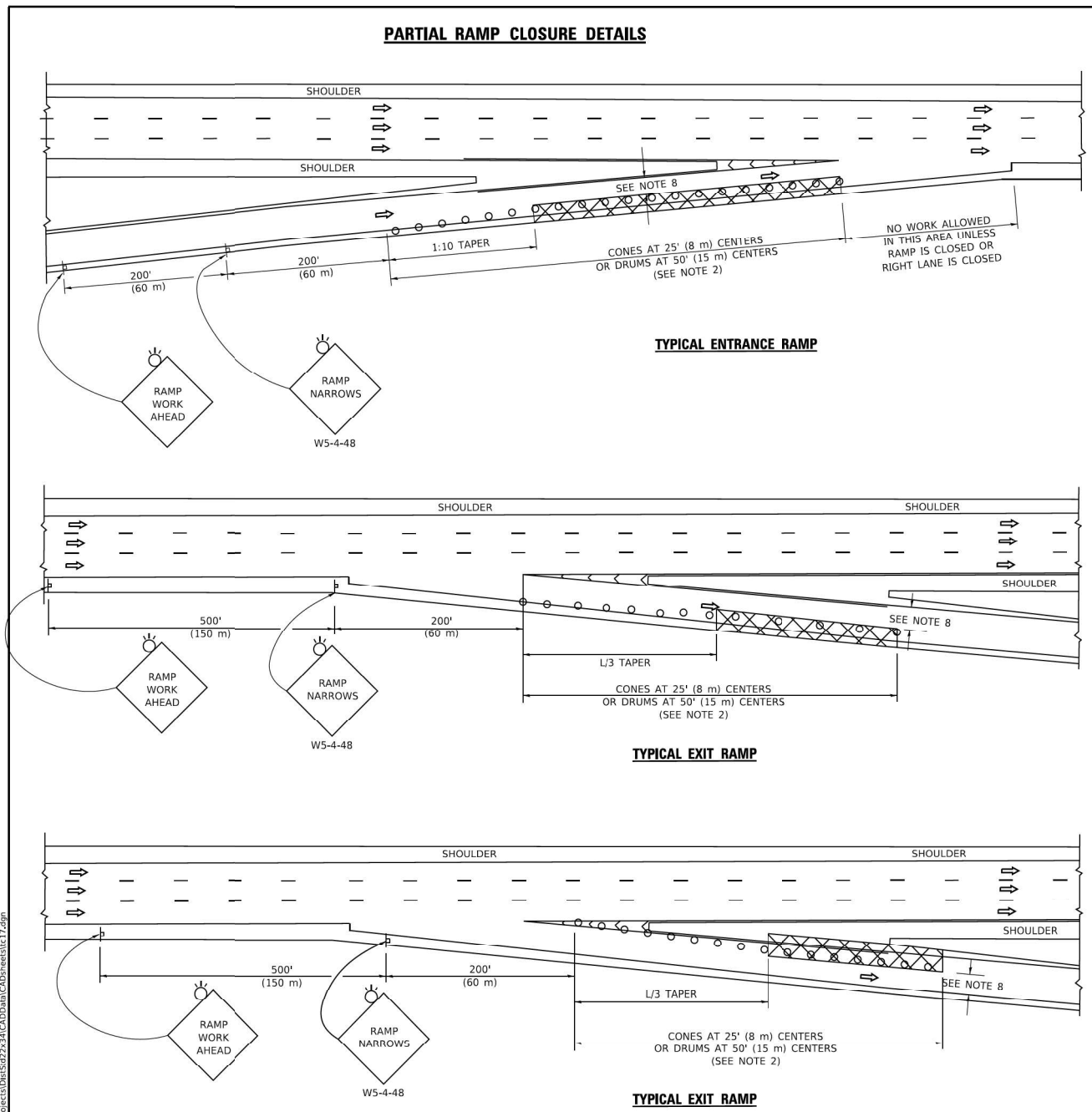
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**MULTI-LANE FREEWAY  
PAVEMENT MARKING DETAILS**

SCALE: NONE SHEET 1 OF 2 SHEETS STA. TO STA.

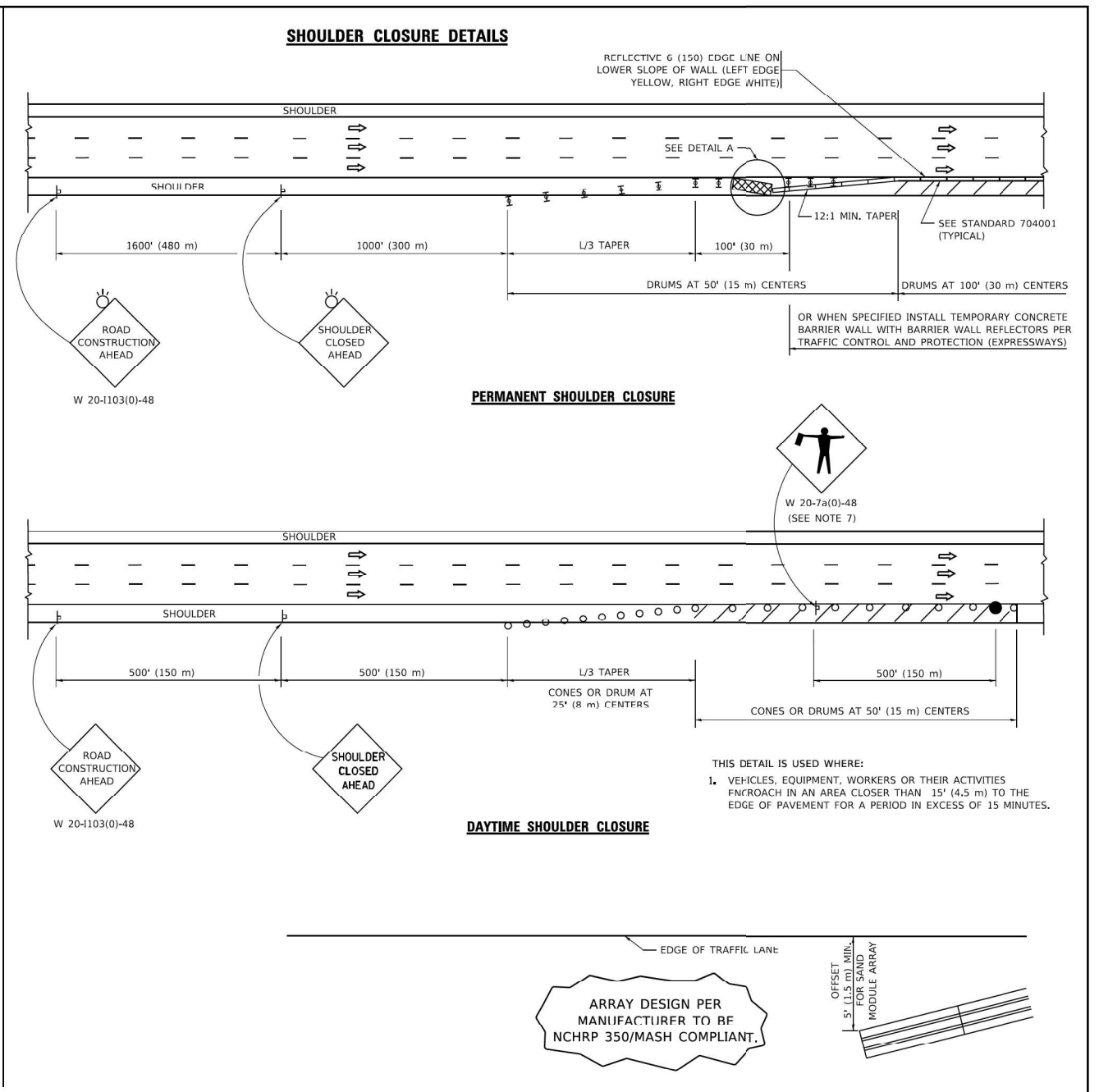
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2020-236-L	COOK/LAKE	173	172
TC-12		CONTRACT NO. 62N05		
		ILLINOIS FED. AID PROJECT		

p:\Projects\2020\2020-236-L\1-94.U.S.-41\CONVENTIONAL\Lighting Plans (50 Scale)\62N05-North Conventional\H20-DIG2N05-ght-standard-20.dgn  
 Model: Default  
 File Name: p:\Projects\2020\2020-236-L\1-94.U.S.-41\CONVENTIONAL\Lighting Plans (50 Scale)\62N05-North Conventional\H20-DIG2N05-ght-standard-20.dgn  
 17:46:34/2020/10/11/4:51 AM User: jacob



- SYMBOLS**
- ACTIVE WORK AREA
  - SIGN ON PORTABLE OR PERMANENT SUPPORT
  - FLAGGER WITH CONTROL SIGN
  - TYPE II BARRICADE OR DRUM
  - CONE, DRUM OR BARRICADE
  - IMPACT ATTENUATOR OF TYPE AND TEST LEVEL SPECIFIED

- GENERAL NOTES:**
- THE "L" DISTANCE EQUALS:  
 SPEED LIMIT FORMULAS  
 45 mph (80 km/h) METRIC ENGLISH  
 OR GREATER L=0.65(W/S) L=W(S)  
 W = WIDTH OF OFFSET IN FEET (METERS)  
 S = NORMAL POSTED SPEED MPH (KM/H)
  - TYPE II BARRICADES OR DRUMS ARE REQUIRED FOR ALL NIGHTTIME CLOSURES. TYPE II BARRICADES OR DRUMS WITH MONODIRECTIONAL STEADY BURN LIGHTS ARE REQUIRED FOR DELINEATING OBSTACLES, EXCAVATIONS, OR HAZARDS EXCEEDING 100 FT (30m) IN LENGTH AT NIGHT.
  - ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
  - FLASHING LIGHTS SHALL BE USED DURING THE HOURS OF DARKNESS AND SHALL BE INSTALLED ABOVE THE FIRST TWO SETS OF SIGNS.



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

- THE IMPACT ATTENUATOR, TEMPORARY IS NOT REQUIRED WHEN THE TEMPORARY CONCRETE BARRIER WALL IS PROTECTED BY OR IS TIED INTO THE EXISTING GUARDRAIL IF OFFSET IS LESS THAN 5 FEET USE NARROW USE TYPE DEVICE TO MEET NCHRP350/MASH.
- AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL FREEWAY CLOSURES.
- THE FLAGGER AND FLAGGER SIGN ARE REQUIRED AT THE ABOVE WORK SITES WHEN:
  - FOUR OR MORE WORK VEHICLES ENTER THE TRAFFIC LANES IN A ONE HOUR PERIOD.
  - THE WORK ACTIVITY REQUIRES FREQUENT ENCROACHMENT INTO THE LANE OPEN TO TRAFFIC.
 THE FLAGGER SHALL BE STATIONED APPROXIMATELY 100' (30 m) TO 200' (60 m) IN ADVANCE OF THE WORKERS.
- 12' MIN. WIDTH TANGENT SECTION  
 16' MIN. WIDTH CURVE SECTION.

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

USER NAME = footemj	DESIGNED -	REVISED - S.P.B. 01-07	<b>STATE OF ILLINOIS          DEPARTMENT OF TRANSPORTATION</b>	<b>TRAFFIC CONTROL DETAILS FOR FREEWAY          SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES</b>	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
DRAWN - D.W.S.	REVISOR -	REVISED - S.P.B. 12-09			SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.	<b>TC-17</b>	ILLINOIS FED. AID PROJECT	CONTRACT NO.		
PLOT SCALE = 50.0000" / in.	CHECKED -	REVISED - M.D. 06-13								
PLOT DATE = 3/4/2019	DATE - 11-96	REVISED - M.D. 01-18								

**Jacobs**

USER NAME = korabmp	DESIGNED -	REVISED -
DRAWN -	REVISOR -	REVISED -
PLOT SCALE =	CHECKED -	REVISED -
PLOT DATE = 8/12/2022	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**IDOT D1 STANDARDS**

SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2020-236-L	COOK/LAKE	173	173
CONTRACT NO. 62N05				
ILLINOIS FED. AID PROJECT				