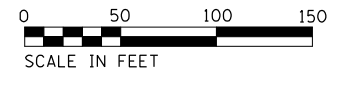


NOTES:
 1. THE EXISTING CONDUIT EMBEDDED IN THE MEDIAN BARRIER WALL IS CELLULOSE AND IS EASILY BREAKABLE AND COLLAPSIBLE. EXISTING CABLES CANNOT BE REMOVED. THE CONTRACTOR UNDER ANY CIRCUMSTANCES SHALL NOT REMOVE OR DAMAGE THE EXISTING CABLES EMBEDDED IN THE BARRIER WALL, AS IT WILL COLLAPSE THE CELLULOSE DUCT. THE CONTRACTOR SHALL TAKE PROPER MEASURES NOT TO DAMAGE THE EXISTING CABLES EMERGING FROM THE EXISTING MEDIAN BARRIER WALL FOUNDATIONS.



p:\Projects\19206688\1-94 ILL. 41\CONTRACT\2020\2020-235-L\Lighting Plans (50 Scale)\62N04_South Conventional\0162N04-ht-Lighting_016.dgn



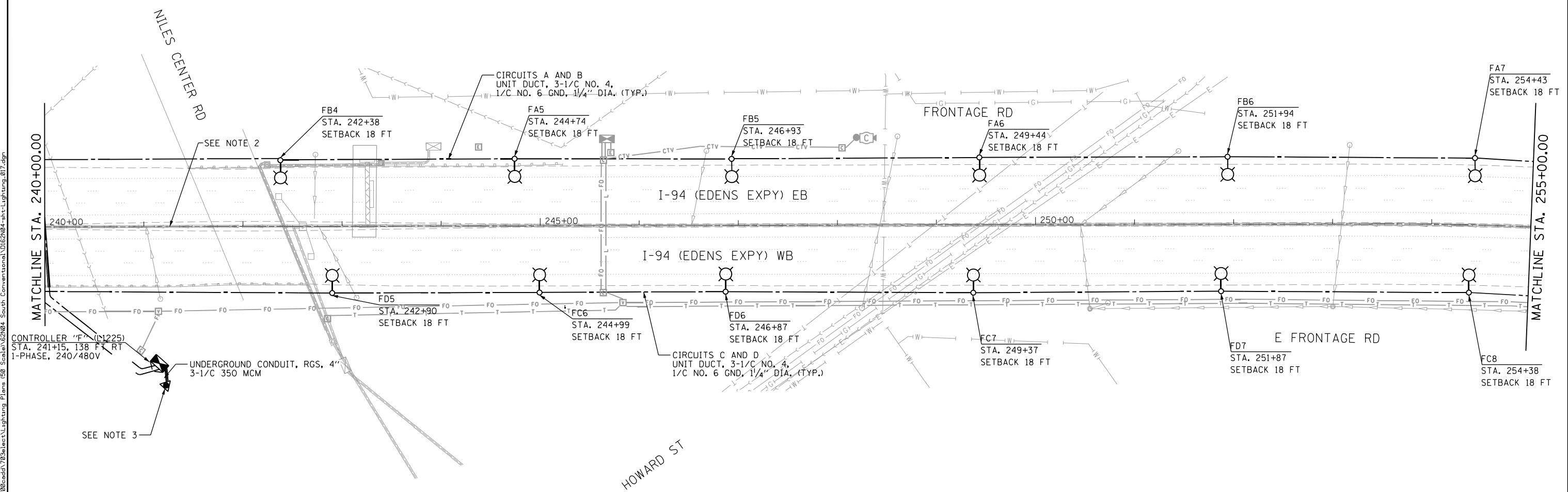
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|----------------------|-------------------|-----------|
| USER NAME = korabmp | DESIGNED - RAS | REVISED - |
| | DRAWN - MPK | REVISED - |
| PLOT SCALE = | CHECKED - RAS | REVISED - |
| PLOT DATE = 7/1/2022 | DATE - 06/25/2021 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-94 /US 41 SMART HIGHWAY
I-94 LIGHTING PLANS
 SCALE: 1" = 50' SHEET 51 OF 78 SHEETS STA. 225+00 TO STA. 240+00

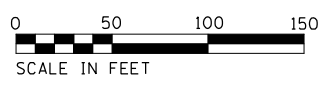
| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|------------|--------|--------------|-----------|
| 94 | 2020-235-L | COOK | 148 | 101 |
| CONTRACT NO. 62N04 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

LT-51



p:\Projects\19206688\1-94 ILL. 41\CS\19206688\709\elect\Lighting Plans (50 Scale)\E2N04_South Conventional\0162604-hht-Lighting_017.dgn
 p:\Projects\19206688\1-94 ILL. 41\CS\19206688\709\elect\Lighting Plans (50 Scale)\E2N04_South Conventional\0162604-hht-Lighting_017.dgn

- NOTES:
1. THE EXISTING CONDUIT EMBEDDED IN THE MEDIAN BARRIER WALL IS CELLULOSE AND IS EASILY BREAKABLE AND COLLAPSIBLE. EXISTING CABLES CANNOT BE REMOVED. THE CONTRACTOR UNDER ANY CIRCUMSTANCES SHALL NOT REMOVE OR DAMAGE THE EXISTING CABLES EMBEDDED IN THE BARRIER WALL, AS IT WILL COLLAPSE THE CELLULOSE DUCT. THE CONTRACTOR SHALL TAKE PROPER MEASURES NOT TO DAMAGE THE EXISTING CABLES EMERGING FROM THE EXISTING MEDIAN BARRIER WALL FOUNDATIONS.
 2. SEE SHEET LT-64 FOR UNDERPASS LIGHTING PLAN.
 3. INSTALL NEW SERVICE INSTALLATION ON EXISTING COMED POLE.



LT-52

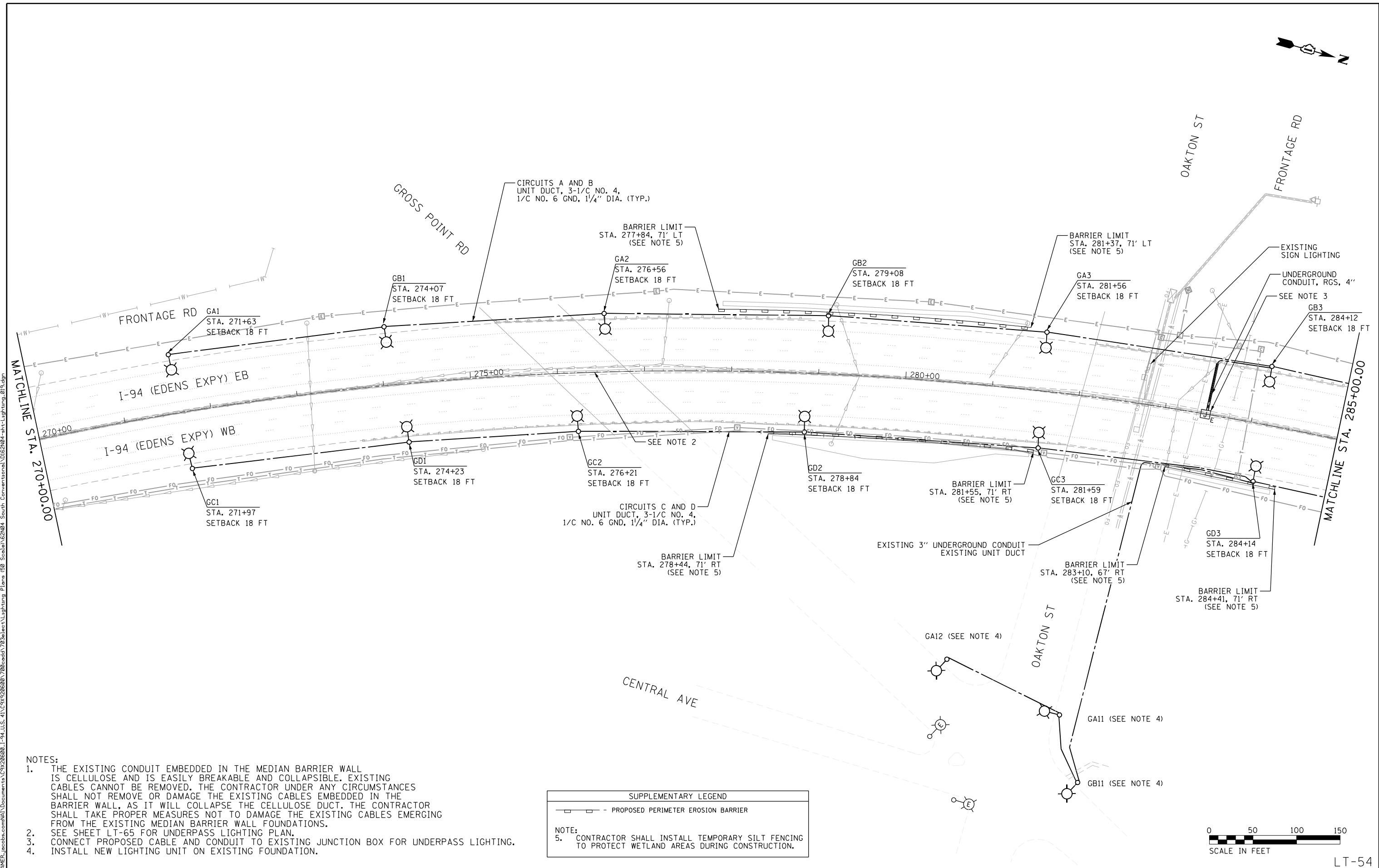


| | | |
|-----------------------|-------------------|-----------|
| USER NAME = korabmp | DESIGNED - RAS | REVISED - |
| DRAWN - MPK | REVISIONS - | |
| PLOT SCALE = | CHECKED - RAS | REVISED - |
| PLOT DATE = 8/12/2022 | DATE - 06/25/2021 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-94 /US 41 SMART HIGHWAY
I-94 LIGHTING PLANS
 SCALE: 1" = 50' SHEET 52 OF 78 SHEETS STA. 240+00 TO STA. 255+00

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|------------|--------|--------------|-----------|
| 94 | 2020-235-L | COOK | 148 | 102 |
| CONTRACT NO. 62N04 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

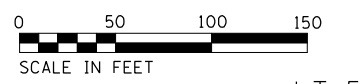


- NOTES:**
1. THE EXISTING CONDUIT EMBEDDED IN THE MEDIAN BARRIER WALL IS CELLULOSE AND IS EASILY BREAKABLE AND COLLAPSIBLE. EXISTING CABLES CANNOT BE REMOVED. THE CONTRACTOR UNDER ANY CIRCUMSTANCES SHALL NOT REMOVE OR DAMAGE THE EXISTING CABLES EMBEDDED IN THE BARRIER WALL, AS IT WILL COLLAPSE THE CELLULOSE DUCT. THE CONTRACTOR SHALL TAKE PROPER MEASURES NOT TO DAMAGE THE EXISTING CABLES EMERGING FROM THE EXISTING MEDIAN BARRIER WALL FOUNDATIONS.
 2. SEE SHEET LT-65 FOR UNDERPASS LIGHTING PLAN.
 3. CONNECT PROPOSED CABLE AND CONDUIT TO EXISTING JUNCTION BOX FOR UNDERPASS LIGHTING.
 4. INSTALL NEW LIGHTING UNIT ON EXISTING FOUNDATION.

SUPPLEMENTARY LEGEND

— — — — — PROPOSED PERIMETER EROSION BARRIER

NOTE:
5. CONTRACTOR SHALL INSTALL TEMPORARY SILT FENCING TO PROTECT WETLAND AREAS DURING CONSTRUCTION.



LT-54



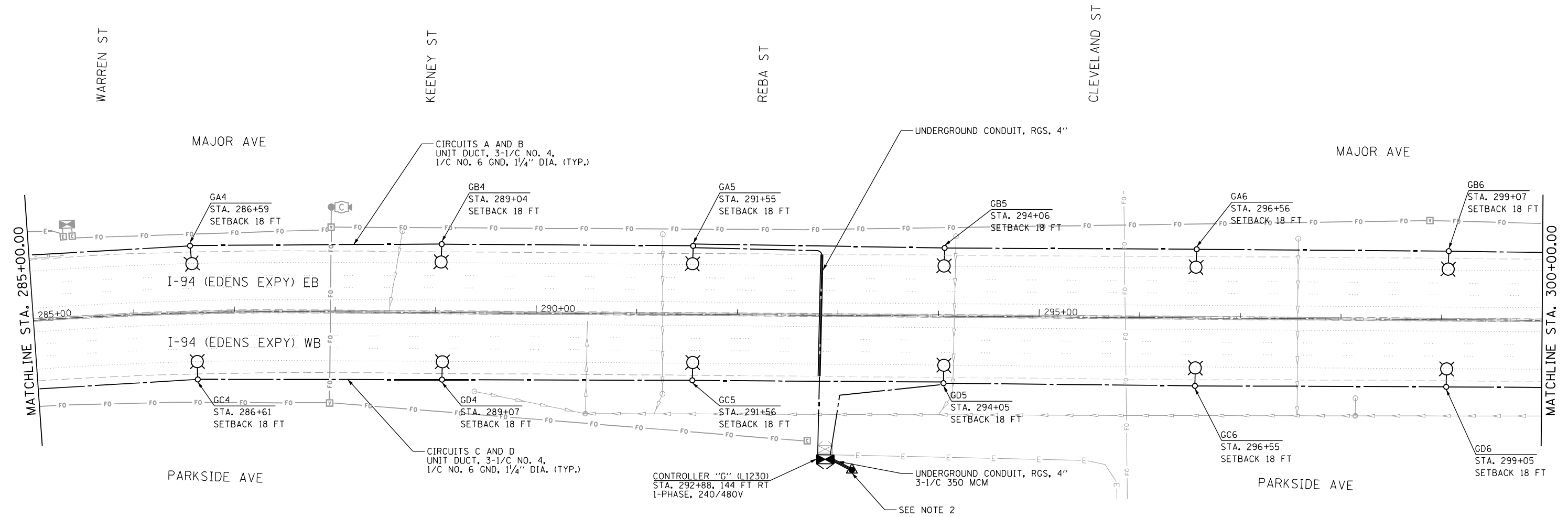
| | | |
|-----------------------|-------------------|-----------|
| USER NAME = korabmp | DESIGNED - RAS | REVISED - |
| | DRAWN - MPK | REVISED - |
| PLOT SCALE = | CHECKED - RAS | REVISED - |
| PLOT DATE = 8/12/2022 | DATE - 06/25/2021 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

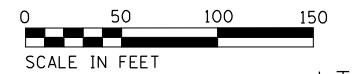
**I-94 /US 41 SMART HIGHWAY
I-94 LIGHTING PLANS**

SCALE: 1" = 50' SHEET 54 OF 78 SHEETS STA. 270+00 TO STA. 285+00

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|------------|--------|--------------|-----------|
| 94 | 2020-235-L | COOK | 148 | 104 |
| CONTRACT NO. 62N04 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



- NOTES:
1. THE EXISTING CONDUIT EMBEDDED IN THE MEDIAN BARRIER WALL IS CELLULOSE AND IS EASILY BREAKABLE AND COLLAPSIBLE. EXISTING CABLES CANNOT BE REMOVED. THE CONTRACTOR UNDER ANY CIRCUMSTANCES SHALL NOT REMOVE OR DAMAGE THE EXISTING CABLES EMBEDDED IN THE BARRIER WALL, AS IT WILL COLLAPSE THE CELLULOSE DUCT. THE CONTRACTOR SHALL TAKE PROPER MEASURES NOT TO DAMAGE THE EXISTING CABLES EMERGING FROM THE EXISTING MEDIAN BARRIER WALL FOUNDATIONS.
 2. INSTALL NEW SERVICE INSTALLATION ON EXISTING COMED POLE.



LT-55

p:\Project\user\ER_jacobson\Documents\C92206680_1-94_ILS_41\C92206680_720\cadd\720\select\Lighting Plans (50 Scale)\62N04_South Conventional\0162N04-hlt-Lighting_6220.dgn

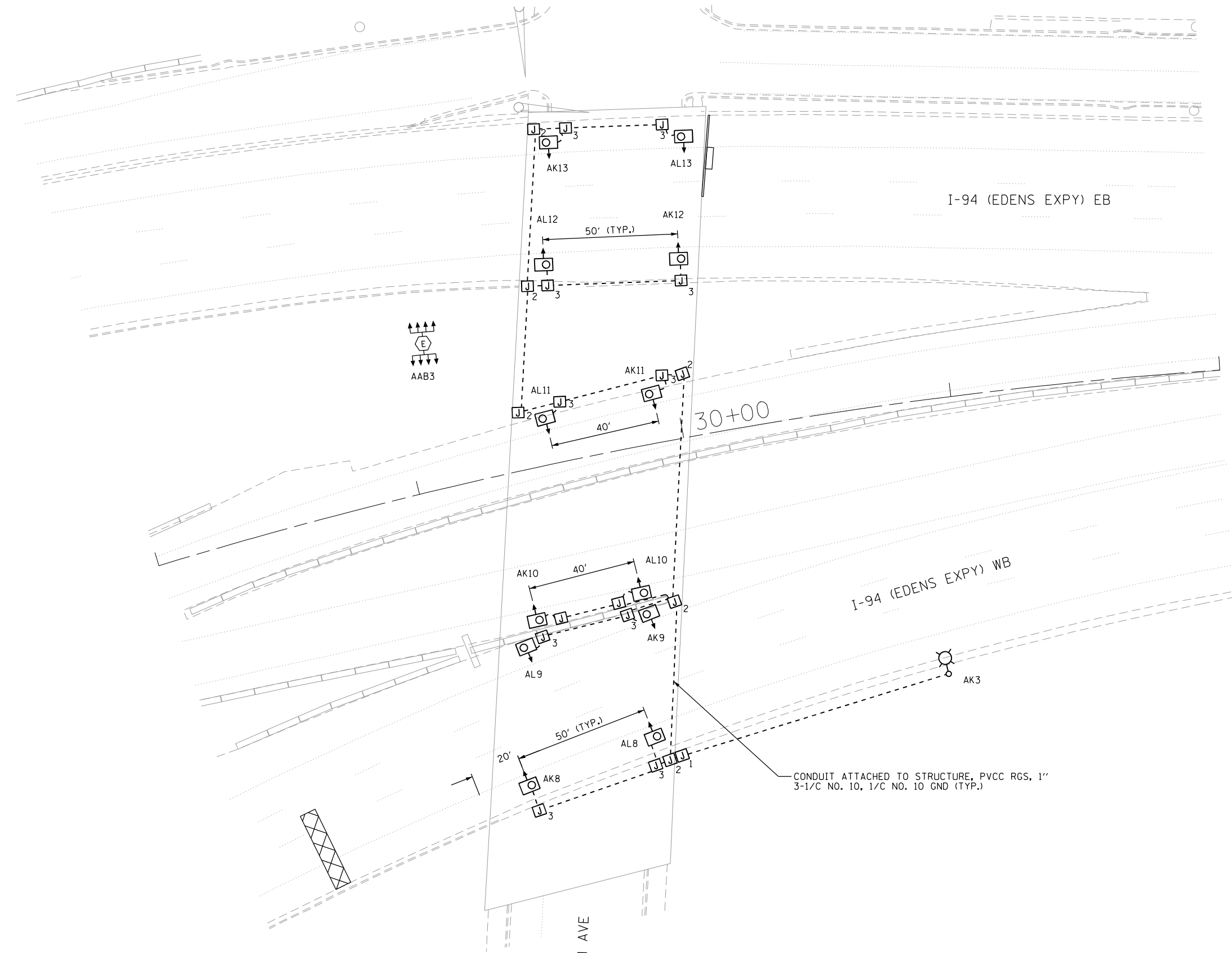


| | | |
|-----------------------|-------------------|-----------|
| USER NAME = korabmp | DESIGNED - RAS | REVISED - |
| | DRAWN - MPK | REVISED - |
| PLOT SCALE = | CHECKED - RAS | REVISED - |
| PLOT DATE = 8/12/2022 | DATE - 06/25/2021 | REVISED - |

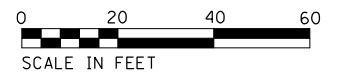
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

I-94 /US 41 SMART HIGHWAY
I-94 LIGHTING PLANS
 SCALE: 1" = 50' SHEET 55 OF 78 SHEETS STA. 285+00 TO STA. 300+00

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|------------|--------|--------------|-----------|
| 94 | 2020-235-L | COOK | 148 | 105 |
| CONTRACT NO. 62N04 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



- NOTES:
1. UNDERPASS LUMINAIRES SHALL BE SUSPENDED MOUNT. OFFSET FROM EDGE OF TRAVELED PAVEMENT SHALL BE 4 FT.
 2. ROADWAY LIGHTING SHOWN FOR REFERENCE. SEE LIGHTING PLANS.



LT-58

p:\Project\user\ER_jacobs\comb\01\Documents\C9226680_1-94_ILS-41\C9226680_726\add\726\select\Lighting Plans (50 Scale)\E2N04_South Conventional\I62N04-hlt\JPP-Wilson.dgn



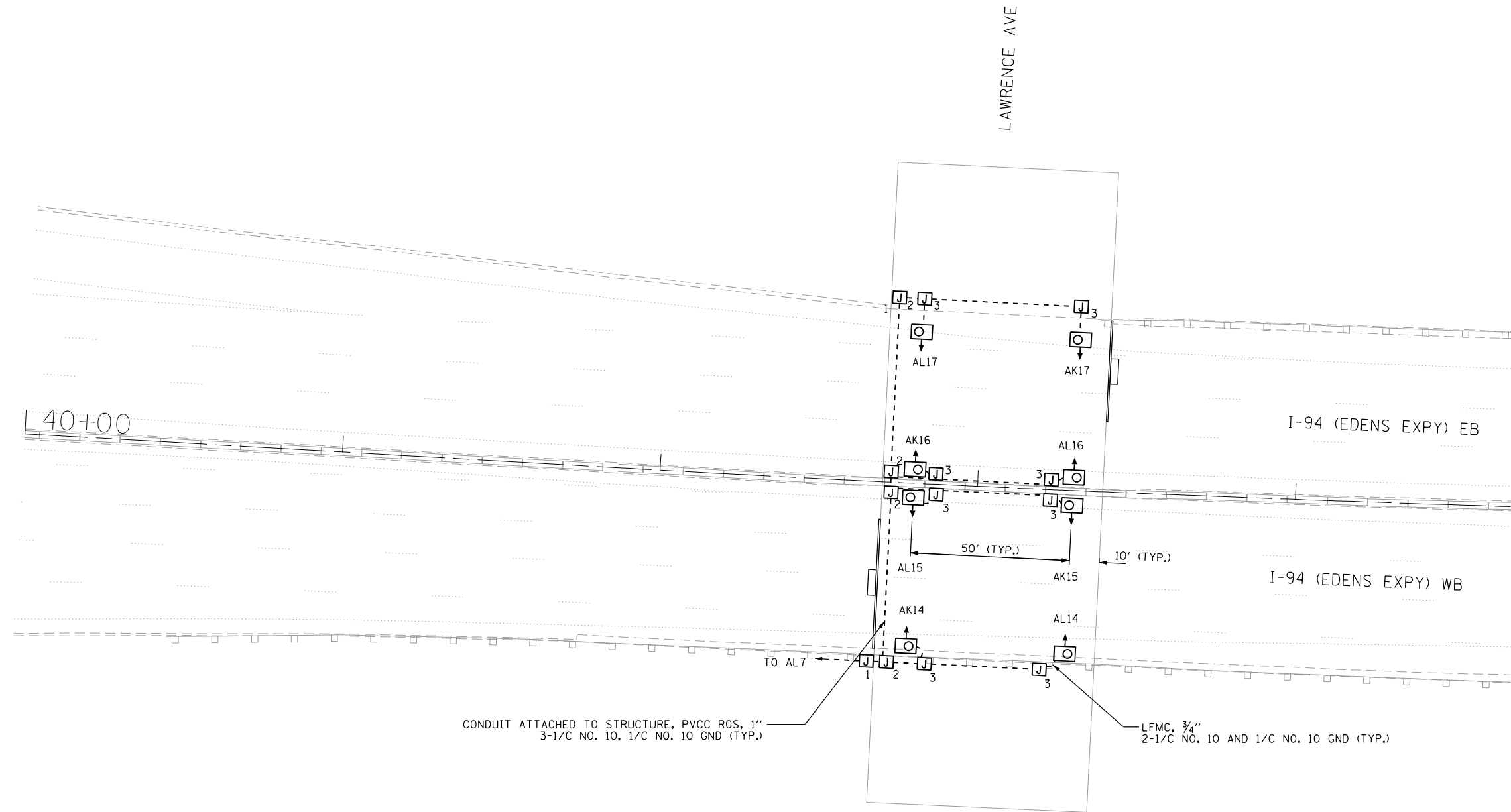
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|-----------------------|-------------------|-----------|
| USER NAME = korabmp | DESIGNED - HP | REVISED - |
| | DRAWN - MPK | REVISED - |
| PLOT SCALE = | CHECKED - RAS | REVISED - |
| PLOT DATE = 8/12/2022 | DATE - 06/25/2021 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-94 UNDER WILSON AVENUE
UNDERPASS LIGHTING PLAN

SCALE: 1" = 50' SHEET 58 OF 78 SHEETS STA. TO STA.

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|------------|--------|--------------|-----------|
| 94 | 2020-235-L | COOK | 148 | 108 |
| CONTRACT NO. 62N04 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



NOTES:

1. UNDERPASS LUMINAIRES SHALL BE SUSPENDED MOUNT. OFFSET FROM EDGE OF TRAVELED PAVEMENT SHALL BE 4 FT.
2. ROADWAY LIGHTING SHOWN FOR REFERENCE ONLY. SEE LIGHTING PLANS.



LT-59

Jacobs

| | | |
|-----------------------|-------------------|-----------|
| USER NAME = korabmp | DESIGNED - HP | REVISED - |
| | DRAWN - MPK | REVISED - |
| PLOT SCALE = | CHECKED - RAS | REVISED - |
| PLOT DATE = 8/12/2022 | DATE - 06/25/2021 | REVISED - |

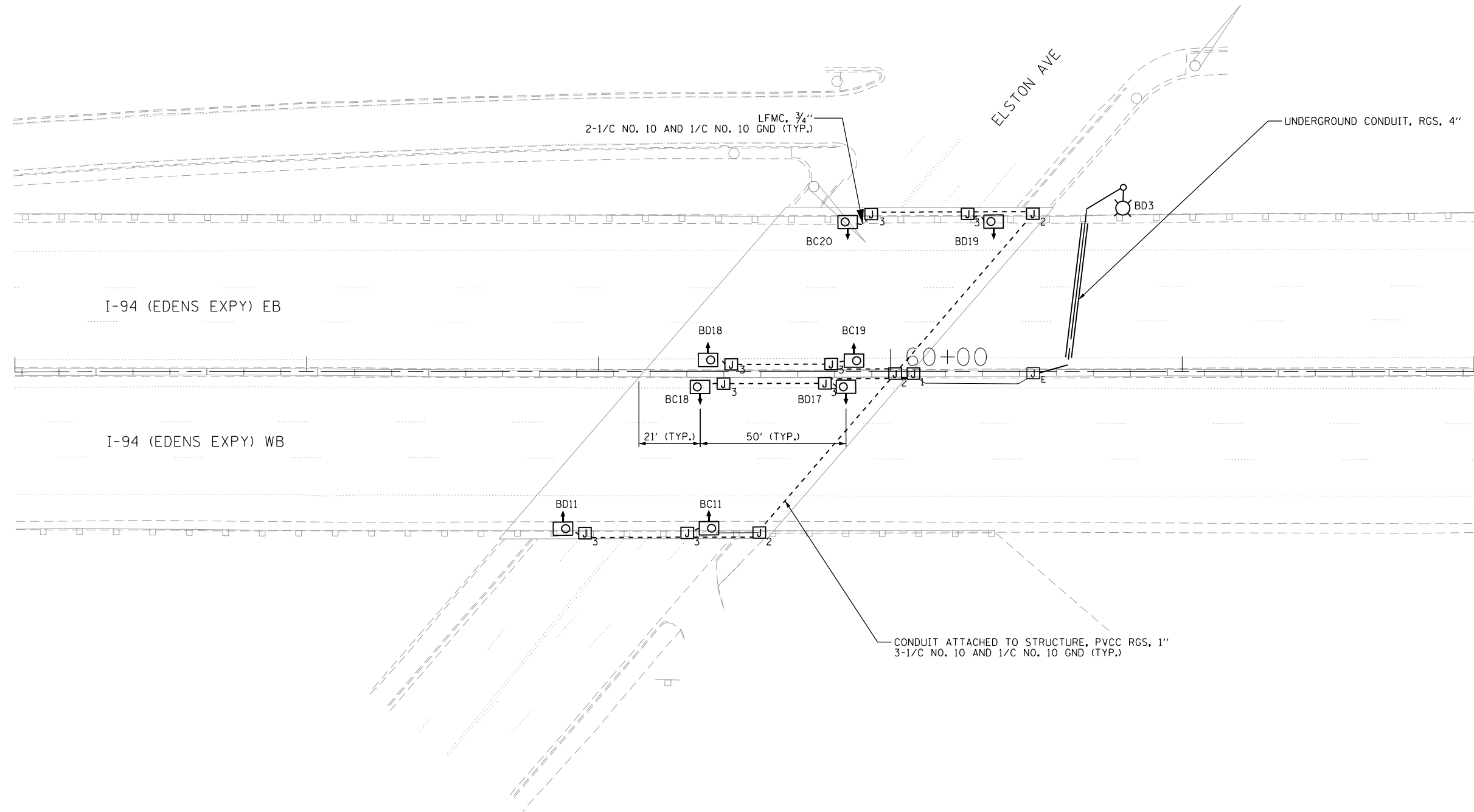
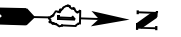
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**I-94 UNDER LAWRENCE AVENUE
UNDERPASS LIGHTING PLAN**

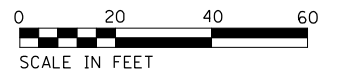
SCALE: 1" = 50' SHEET 59 OF 78 SHEETS STA. TO STA.

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|------------|--------|--------------|-----------|
| 94 | 2020-235-L | COOK | 148 | 109 |
| CONTRACT NO. 62N04 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

p:\Projects\user\ER_jacobs\comb\03\Documents\C9226680_1-94_ILS_41\C9226680_720\cadd\720\select\Lighting Plans (50 Scale)\E2N04_South Conventional\0162N04-hlt-UPP-Lawrence.dgn



- NOTES:
1. UNDERPASS LUMINAIRES SHALL BE SUSPENDED MOUNT, OFFSET FROM EDGE OF TRAVELED PAVEMENT SHALL BE 4 FT AT INSIDE LANES AND 12 FT AT OUTSIDE SHOULDER.
 2. ROADWAY LIGHTING SHOWN FOR REFERENCE ONLY. SEE LIGHTING PLANS.



LT-60

Jacobs

| | | |
|-----------------------|-------------------|-----------|
| USER NAME = korabmp | DESIGNED - HP | REVISED - |
| | DRAWN - MG | REVISED - |
| PLOT SCALE = | CHECKED - RAS | REVISED - |
| PLOT DATE = 8/12/2022 | DATE - 06/25/2021 | REVISED - |

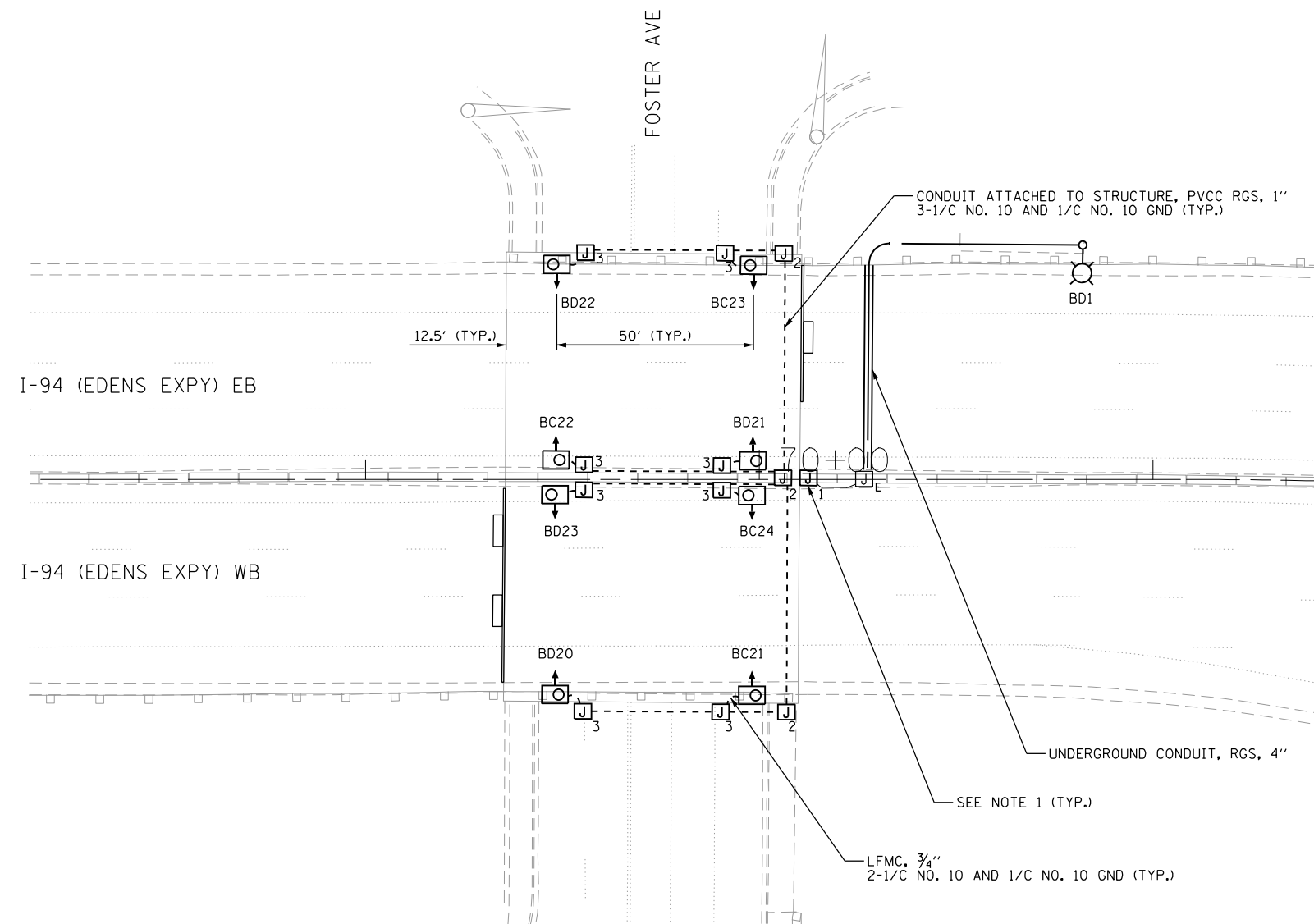
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**I-94 UNDER ELSTON AVENUE
UNDERPASS LIGHTING PLAN**

SCALE: 1" = 20' SHEET 60 OF 78 SHEETS STA. TO STA.

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|------------|--------|--------------|-----------|
| 94 | 2020-235-L | COOK | 148 | 110 |
| CONTRACT NO. 62N04 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

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- NOTES:
1. UNDERPASS LUMINAIRES SHALL BE SUSPENDED MOUNT, OFFSET FROM EDGE OF TRAVELED PAVEMENT SHALL BE 4 FT AT INSIDE SHOULDER AND 12 FT AT OUTSIDE SHOULDER.
 2. ROADWAY LIGHTING SHOWN FOR REFERENCE ONLY. SEE LIGHTING PLANS.

p:\Project\user\ER_jacobs\comb\03\Documents\92206608_1-94_ILS_41\C92206608_720\cadd\703\elect\Lighting Plans (50 Scale)\62N04_South Conventional\0162N04-hlt\JPP-Foster.dgn



| | | |
|-----------------------|-------------------|-----------|
| USER NAME = korabmp | DESIGNED - HP | REVISED - |
| | DRAWN - MG | REVISED - |
| PLOT SCALE = | CHECKED - RAS | REVISED - |
| PLOT DATE = 8/12/2022 | DATE - 06/25/2021 | REVISED - |

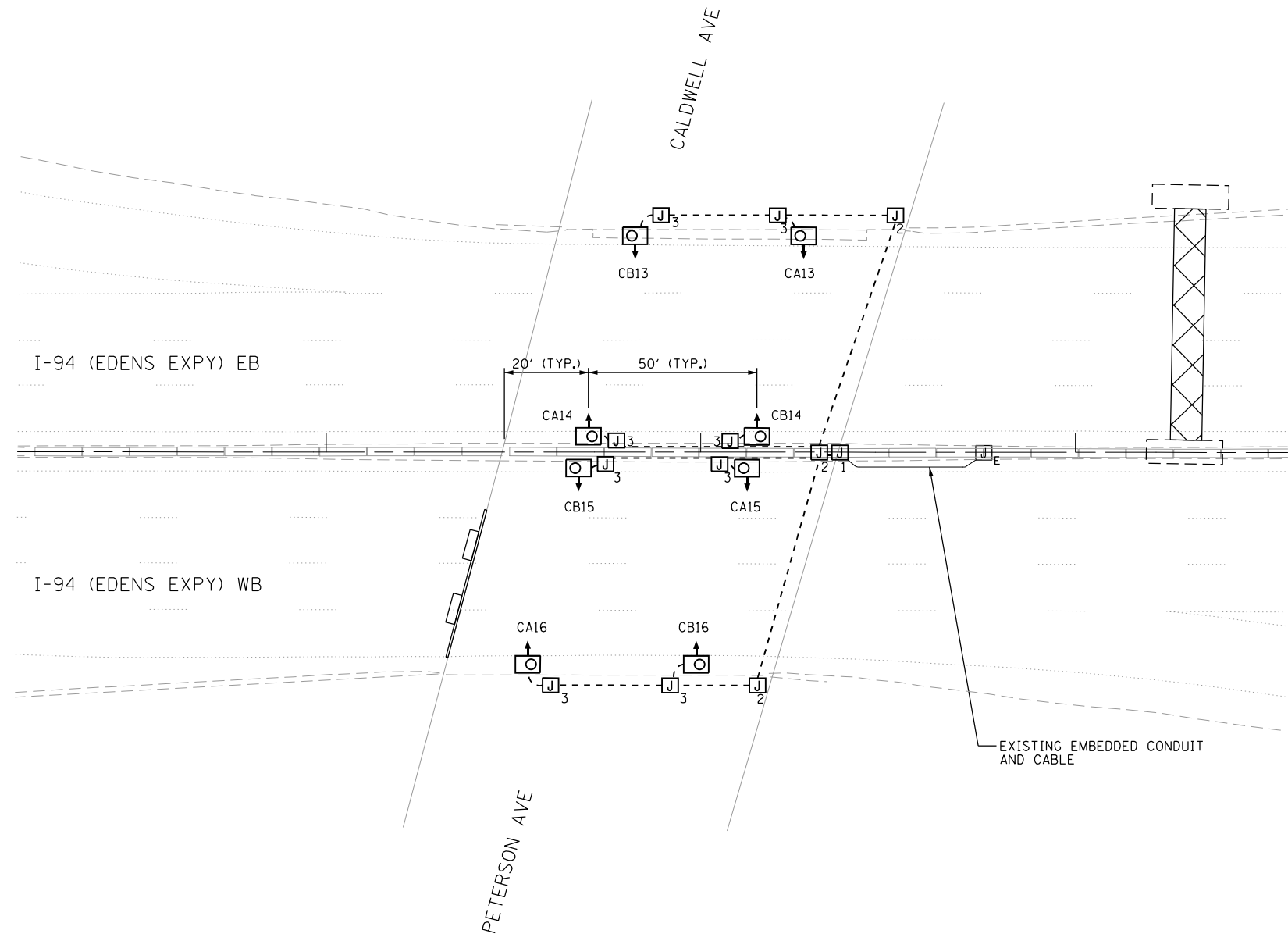
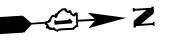
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**I-94 UNDER FOSTER AVENUE
UNDERPASS LIGHTING PLAN**

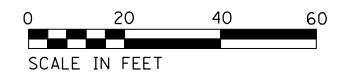
SCALE: 1" = 20' SHEET 61 OF 78 SHEETS STA. TO STA.

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|------------|--------|--------------|-----------|
| 94 | 2020-235-L | COOK | 148 | 111 |
| CONTRACT NO. 62N04 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

LT-61



NOTES:
 1. UNDERPASS LUMINAIRES SHALL BE SUSPENDED MOUNT.
 OFFSET FROM EDGE OF TRAVELED PAVEMENT SHALL BE
 4 FT FROM SHOULDER.



LT-62



| | | |
|----------------------|-------------------|-----------|
| USER NAME = korabmp | DESIGNED - HP | REVISED - |
| | DRAWN - MG | REVISED - |
| PLOT SCALE = | CHECKED - RAS | REVISED - |
| PLOT DATE = 7/1/2022 | DATE - 06/25/2021 | REVISED - |

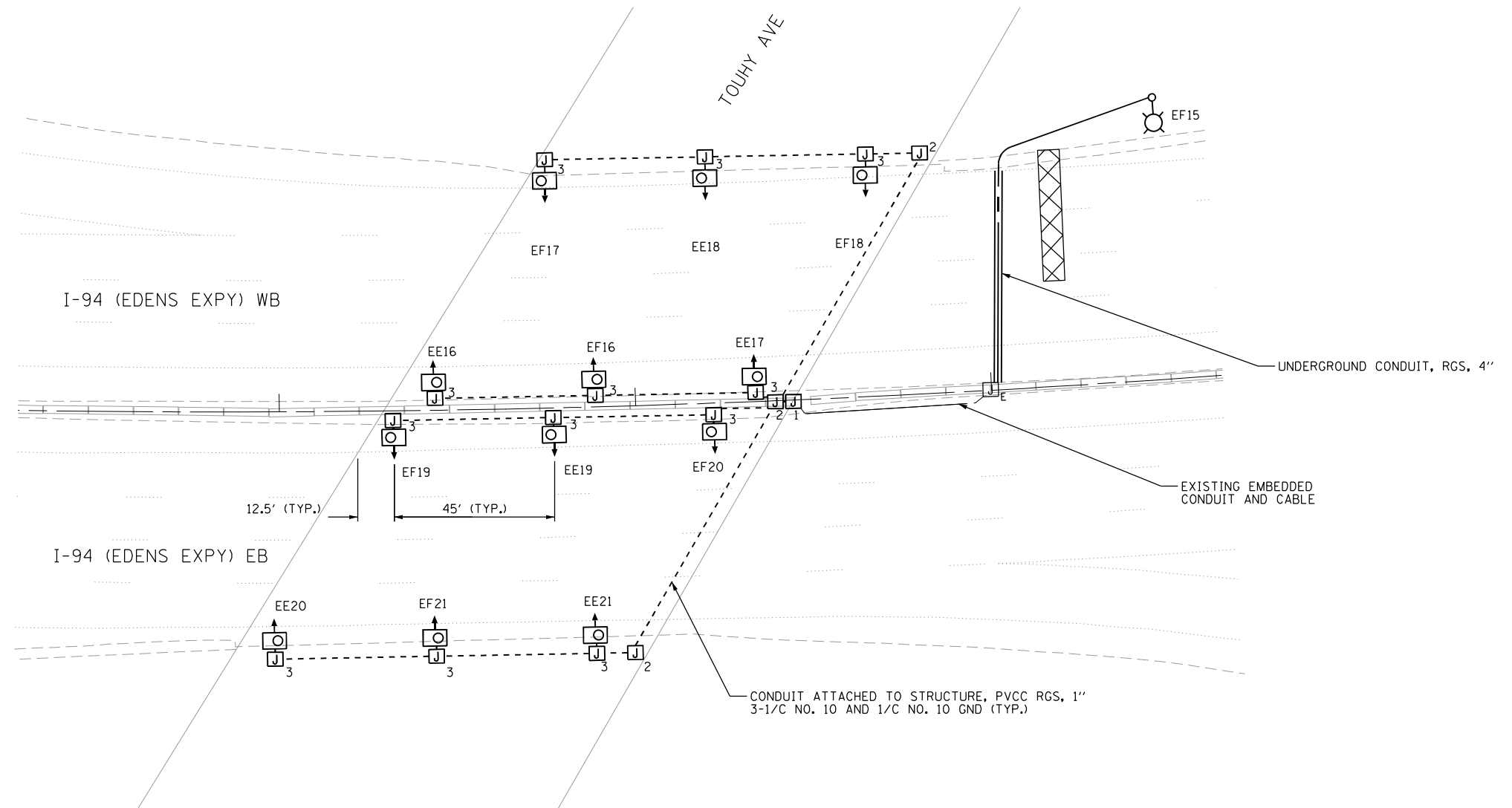
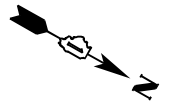
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**I-94 UNDER PETERSON AVENUE
 UNDERPASS LIGHTING PLAN**

SCALE: 1" = 20' SHEET 62 OF 78 SHEETS STA. TO STA.

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|------------|--------|--------------|-----------|
| 94 | 2020-235-L | COOK | 148 | 112 |
| CONTRACT NO. 62N04 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

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- NOTES:
1. UNDERPASS LUMINAIRES SHALL BE SUSPENDED MOUNT. OFFSET FROM EDGE OF TRAVELED PAVEMENT SHALL BE 4 FT.
 2. ROADWAY LIGHTING SHOWN FOR REFERENCE. SEE LIGHTING PLANS.



LT-63

p:\Project\user\ER_jacobs\com\h3\Documents\C9226688_1-94_ILS-41\C9226688_720\cadd\703\select\Lighting Plans (50 Scale)\E2N04_South Conventional\I62N04-hlt-UPP-r-Touhy.dgn



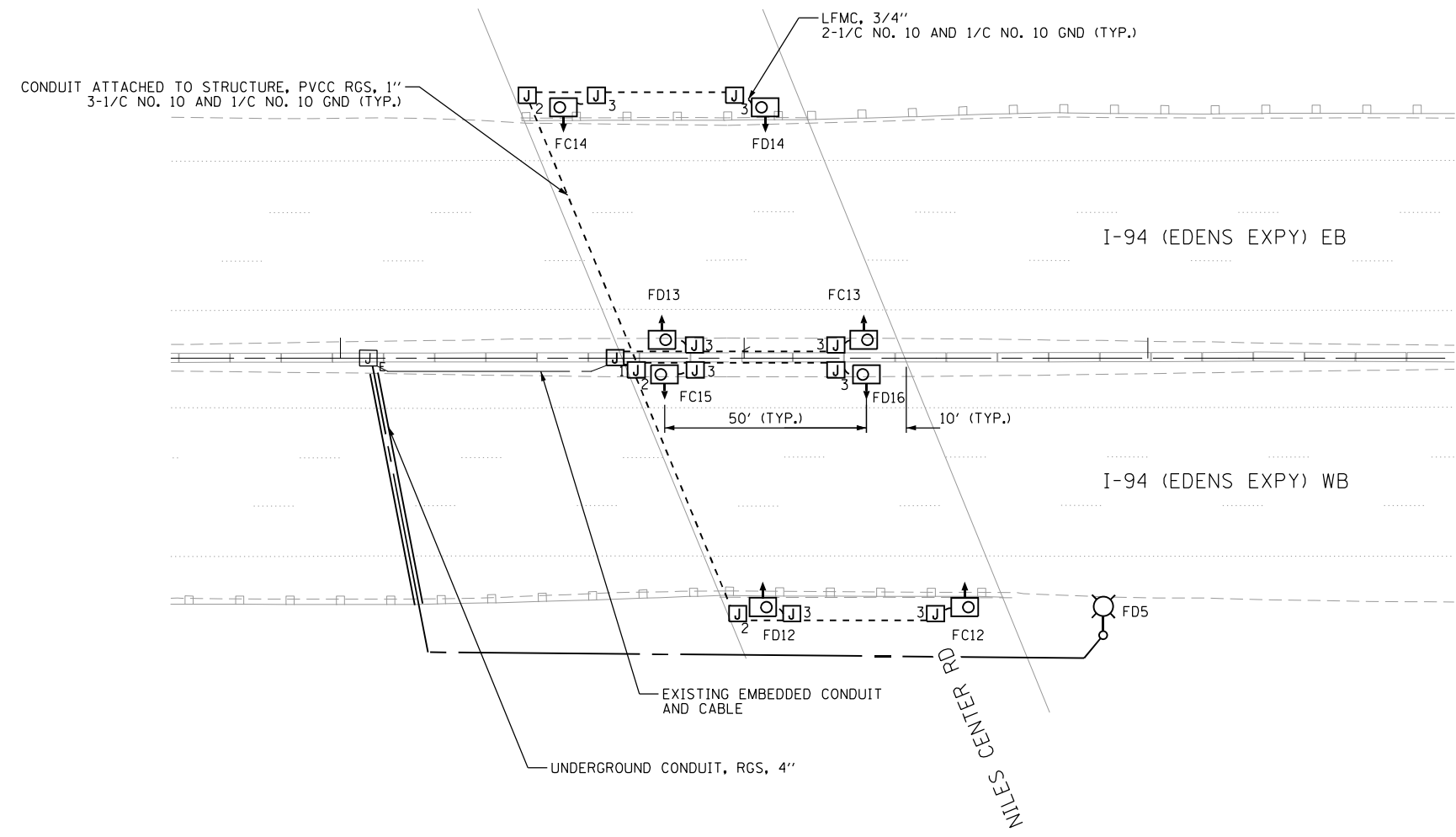
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| USER NAME = korabmp | DESIGNED - HP | REVISED - |
| | DRAWN - MPK | REVISED - |
| PLOT SCALE = | CHECKED - RAS | REVISED - |
| PLOT DATE = 8/12/2022 | DATE - 06/25/2021 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

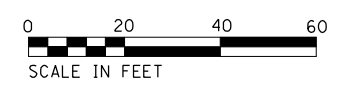
**I-94 UNDER TOUHY AVENUE
UNDERPASS LIGHTING PLAN**

SCALE: 1" = 20' SHEET 63 OF 78 SHEETS STA. TO STA.

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|------------|--------|--------------|-----------|
| 94 | 2020-235-L | COOK | 148 | 113 |
| CONTRACT NO. 62N04 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



- NOTES:
1. UNDERPASS LUMINAIRES SHALL BE SUSPENDED MOUNT. OFFSET FROM EDGE OF TRAVELED PAVEMENT SHALL BE 4 FT AT INSIDE SHOULDER AND 12 FT AT OUTSIDE SHOULDER.
 2. ROADWAY LIGHTING SHOWN FOR REFERENCE ONLY. SEE LIGHTING PLANS.



LT-64

p:\Projects\user\ER_jacobs\comb\03\Documents\C9226680_1-94_ILS-41\C9226680_720\cadd\720\select\Lighting Plans (50 Scale)\E2N04_South Conventional\I62N04-hlt\JPP-Niles_Center.dgn



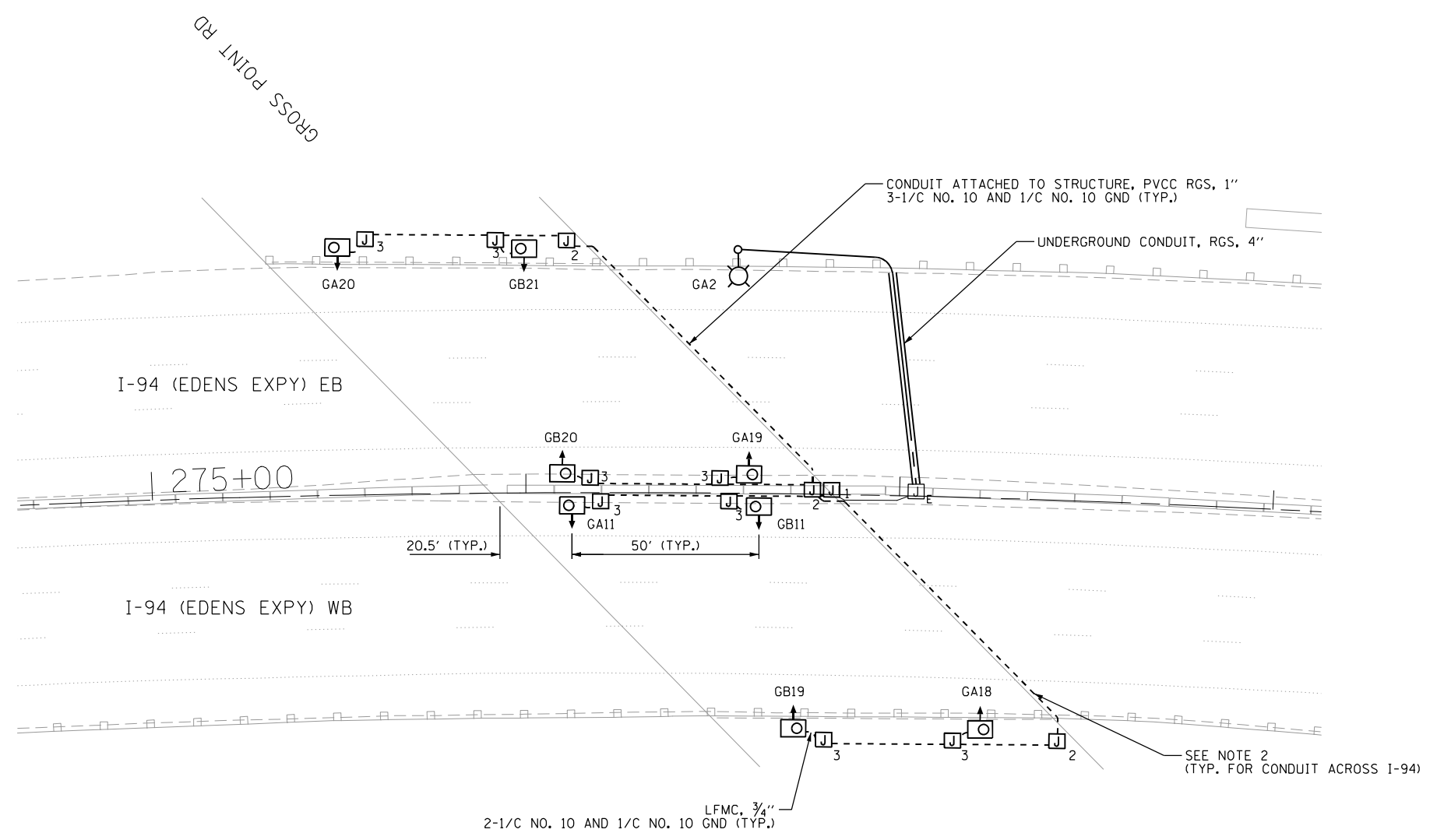
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| | DRAWN - MG | REVISED - |
| PLOT SCALE = | CHECKED - RAS | REVISED - |
| PLOT DATE = 8/12/2022 | DATE - 06/25/2021 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**I-94 UNDER NILES CENTER ROAD
UNDERPASS LIGHTING PLAN**

SCALE: 1" = 20' SHEET 64 OF 78 SHEETS STA. TO STA.

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|------------|--------|--------------|-----------|
| 94 | 2020-235-L | COOK | 148 | 114 |
| CONTRACT NO. 62N04 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



- NOTES:
1. UNDERPASS LUMINAIRES SHALL BE SUSPENDED MOUNT. OFFSET FROM EDGE OF TRAVELED PAVEMENT SHALL BE 4 FT AT INSIDE SHOULDER AND 12 FT AT OUTSIDE SHOULDER.
 2. CONDUIT SHALL BE ATTACHED TO FLANGE OF FASCIA BEAM TO AVOID IMPACT TO BRIDGE PROTECTIVE SHIELD.
 3. ROADWAY LIGHTING IS SHOWN FOR REFERENCE ONLY. SEE LIGHTING PLANS.



LT-65

p:\Projects\user\ER_jacobs\comb\01\Documents\C9226680_1-94_ILS_41\C9226680_720\cadd\720\select\Lighting Plans (50 Scale)\E2N04_South Conventional\I62N04-hlt\UPP-Gross Pt.dgn



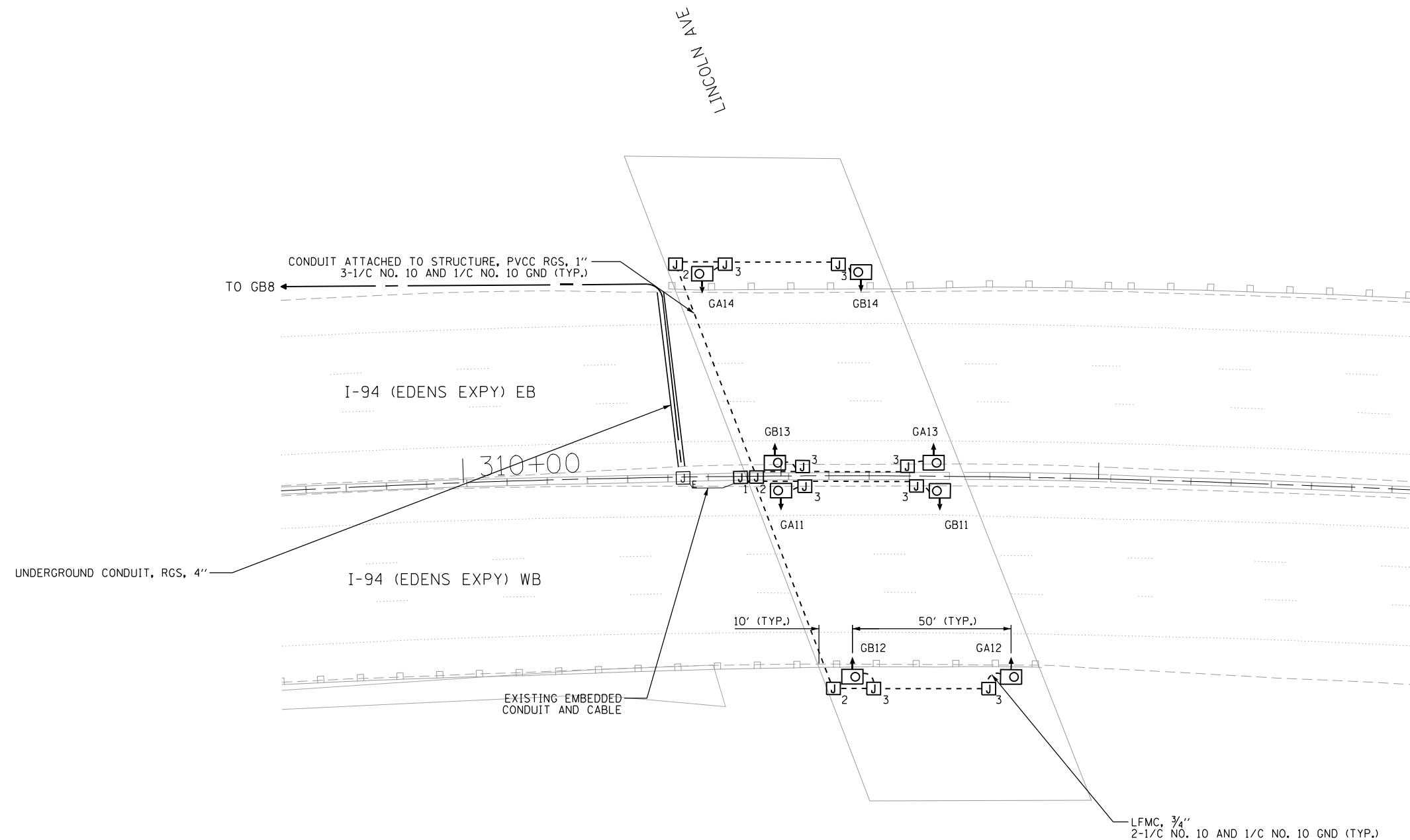
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| USER NAME = korabmp | DESIGNED - HP | REVISED - |
| | DRAWN - MG | REVISED - |
| PLOT SCALE = | CHECKED - RAS | REVISED - |
| PLOT DATE = 8/12/2022 | DATE - 06/25/2021 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-94 UNDER GROSS POINT ROAD
UNDERPASS LIGHTING PLAN

SCALE: 1" = 20' SHEET 65 OF 78 SHEETS STA. TO STA.

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|------------|--------|--------------|-----------|
| 94 | 2020-235-L | COOK | 148 | 115 |
| CONTRACT NO. 62N04 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



- NOTES:
1. UNDERPASS LUMINAIRES SHALL BE SUSPENDED MOUNT, OFFSET FROM EDGE OF TRAVELED PAVEMENT SHALL BE 4 FT AT INSIDE SHOULDER AND 12 FT AT OUTSIDE SHOULDER.
 2. ROADWAY LIGHTING SHOWN FOR REFERENCE ONLY. SEE LIGHTING PLANS.



LT-66

Jacobs

| | | |
|-----------------------|-------------------|-----------|
| USER NAME = korabmp | DESIGNED - HP | REVISED - |
| | DRAWN - MG | REVISED - |
| PLOT SCALE = | CHECKED - RAS | REVISED - |
| PLOT DATE = 8/12/2022 | DATE - 06/25/2021 | REVISED - |

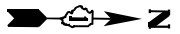
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**I-94 UNDER LINCOLN AVENUE
UNDERPASS LIGHTING PLAN**

SCALE: 1" = 20' SHEET 66 OF 78 SHEETS STA. TO STA.

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|------------|--------|--------------|-----------|
| 94 | 2020-235-L | COOK | 148 | 116 |
| CONTRACT NO. 62N04 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

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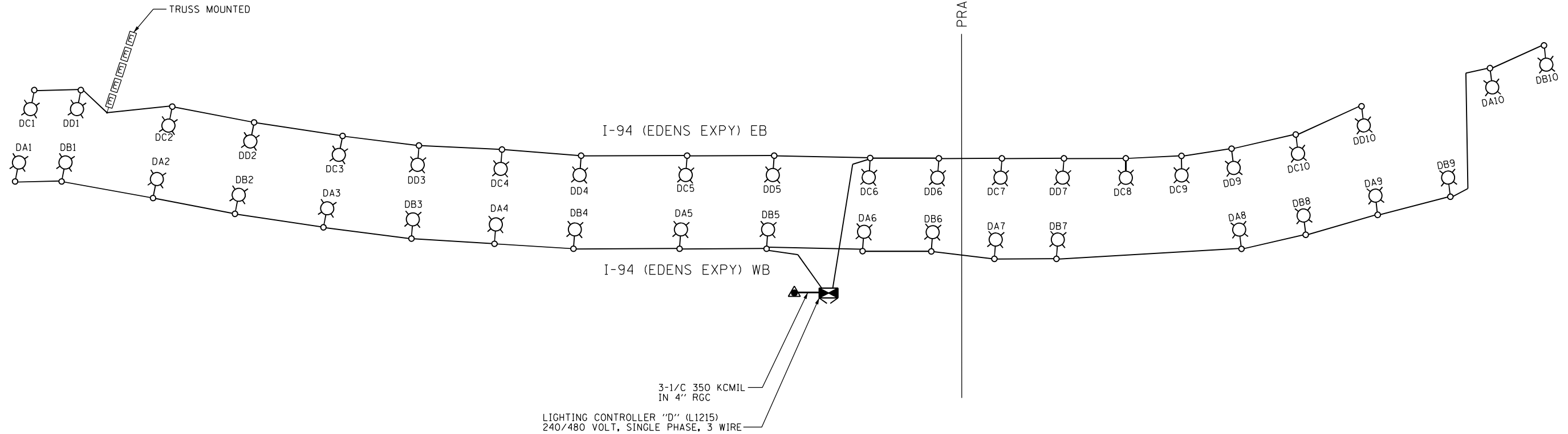


| LOAD TABLE | | | | | | | |
|--|------------------|------|-------|-------------|------------------|------|-------|
| LIGHTING CONTROLLER "D", 240/480V, 1 PHASE, 3 WIRE | | | | | | | |
| RED PHASE | NO. LUM. | AMPS | WATTS | BLACK PHASE | NO. LUM. | AMPS | WATTS |
| A | 10-240W | 10.6 | 2550 | B | 10-240W | 10.6 | 2550 |
| C | 10-240W 3-50W | 10 | 2400 | D | 10-240W 2-50W | 10 | 2400 |
| TOTAL | 20-240W 3-50W | 20.6 | 4950 | TOTAL | 20-240W 2-50W | 20.6 | 4950 |

TOTAL CONNECTED LOAD: 9.9 KVA

DEVON AVE

PRATT AVE



LEGEND

- PROPOSED LIGHTING UNIT
- PROPOSED UNDERPASS LUMINAIRE
- PROPOSED LIGHTING CONTROLLER
- PROPOSED ELECTRIC SERVICE INSTALLATION
- EXISTING SIGN LIGHTING (TYPE AS NOTED)

LT-70



| | | |
|----------------------|-------------------|-----------|
| USER NAME = korabmp | DESIGNED - RAS | REVISED - |
| | DRAWN - MG | REVISED - |
| PLOT SCALE = | CHECKED - RAS | REVISED - |
| PLOT DATE = 7/1/2022 | DATE - 06/25/2021 | REVISED - |

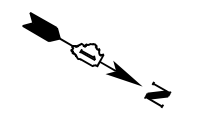
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SINGLE LINE DIAGRAM
LIGHTING CONTROLLER "D"

SCALE: NTS SHEET 70 OF 78 SHEETS STA. TO STA.

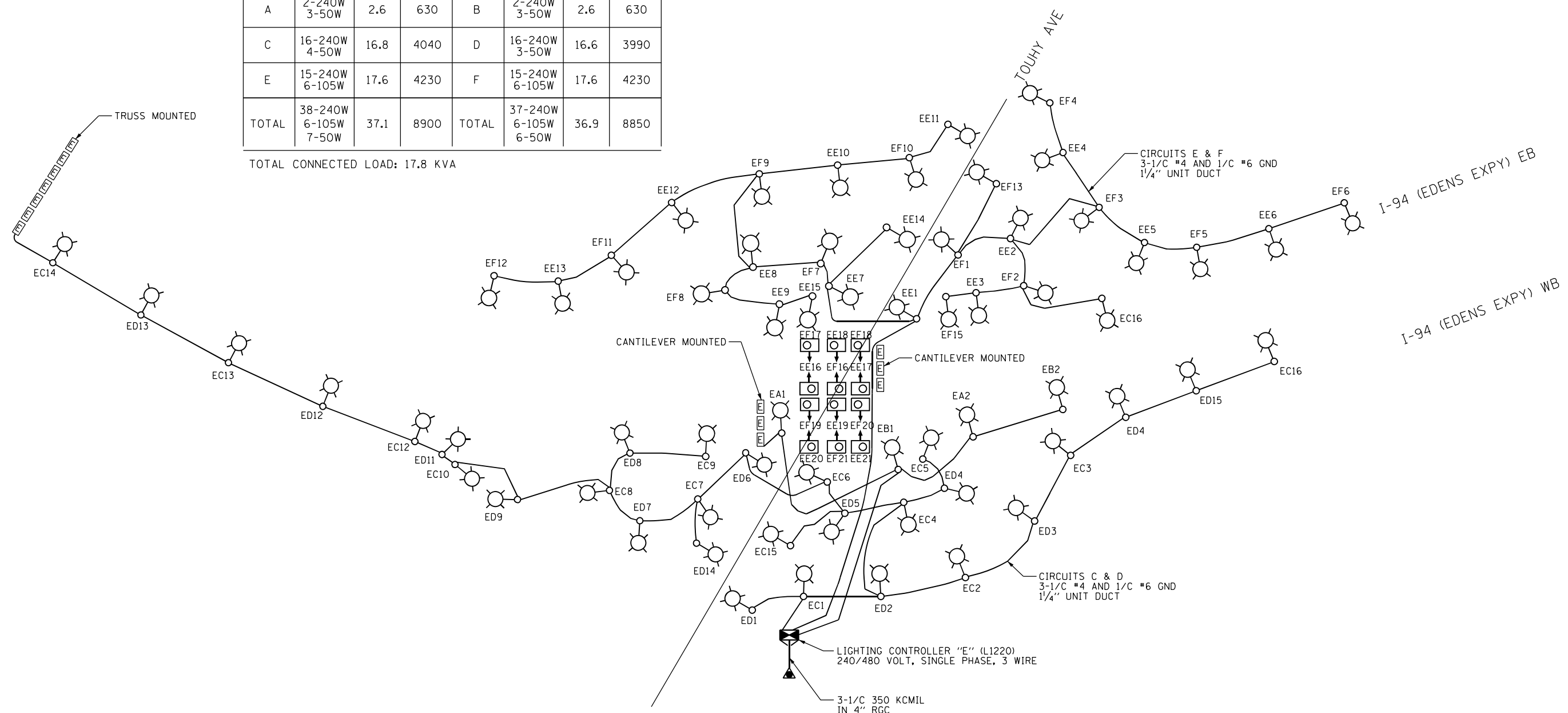
| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|------------|--------|--------------|-----------|
| 94 | 2020-235-L | COOK | 148 | 120 |
| CONTRACT NO. 62N04 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

p:\Project\user\ER_jacobbs\cmh01\Documents\C9226688_1-94_ILS_41\C9226688_720\cadd\703\select\Lighting Plans (50 Scale)\E2N04_South Conventional\0162N04-ht-SLD.dgn








| LOAD TABLE | | | | | | | |
|--|----------------------------|------|-------|-------------|----------------------------|------|-------|
| LIGHTING CONTROLLER "E", 240/480V, 1 PHASE, 3 WIRE | | | | | | | |
| RED PHASE | NO. LUM. | AMPS | WATTS | BLACK PHASE | NO. LUM. | AMPS | WATTS |
| A | 2-240W 3-50W | 2.6 | 630 | B | 2-240W 3-50W | 2.6 | 630 |
| C | 16-240W 4-50W | 16.8 | 4040 | D | 16-240W 3-50W | 16.6 | 3990 |
| E | 15-240W 6-105W | 17.6 | 4230 | F | 15-240W 6-105W | 17.6 | 4230 |
| TOTAL | 38-240W 6-105W 7-50W | 37.1 | 8900 | TOTAL | 37-240W 6-105W 6-50W | 36.9 | 8850 |

TOTAL CONNECTED LOAD: 17.8 KVA



LEGEND

-  PROPOSED LIGHTING UNIT
-  PROPOSED UNDERPASS LUMINAIRE
-  PROPOSED LIGHTING CONTROLLER
-  PROPOSED ELECTRIC SERVICE INSTALLATION
-  EXISTING SIGN LIGHTING (TYPE AS NOTED)

p:\Projects\user\ER_jacobbs\comb\01\Documents\C9226688_1-94_ILS_41\C9226688_720\ecdd\720\select\Lighting Plans (50 Scale)\E2N04_South Conventional\0162N04-hlt-SLD.dgn



| | | |
|----------------------|-------------------|-----------|
| USER NAME = korabmp | DESIGNED - RAS | REVISED - |
| DRAWN - MG | REVISOR - | |
| PLOT SCALE = | CHECKED - RAS | REVISOR - |
| PLOT DATE = 7/1/2022 | DATE - 06/25/2021 | REVISOR - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

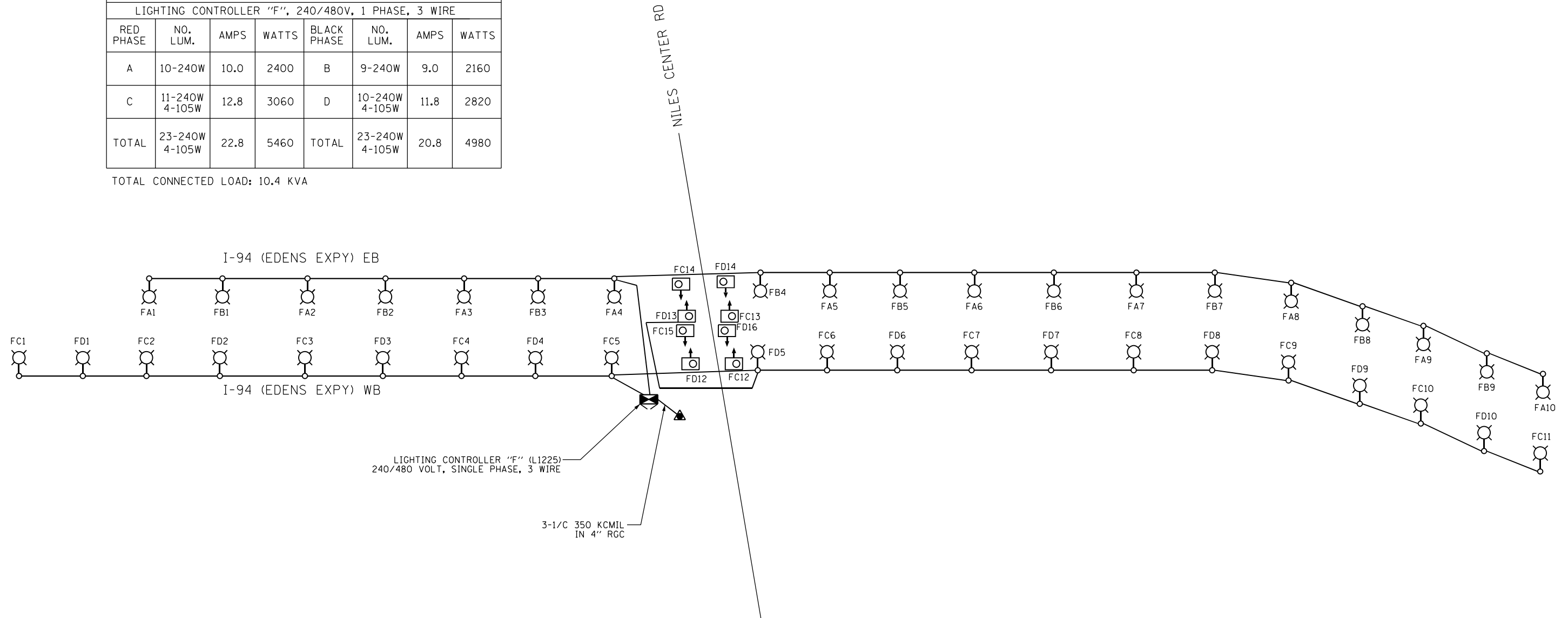
| | | | |
|--|----------|-------------------|---------|
| SINGLE LINE DIAGRAM LIGHTING CONTROLLER "E" | | | |
| SCALE: NTS | SHEET 71 | OF 78 SHEETS STA. | TO STA. |

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|------------|--------|--------------|-----------|
| 94 | 2020-235-L | COOK | 148 | 121 |
| CONTRACT NO. 62N04 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |







| LOAD TABLE | | | | | | | |
|--|-------------------|------|-------|-------------|-------------------|------|-------|
| LIGHTING CONTROLLER "F", 240/480V, 1 PHASE, 3 WIRE | | | | | | | |
| RED PHASE | NO. LUM. | AMPS | WATTS | BLACK PHASE | NO. LUM. | AMPS | WATTS |
| A | 10-240W | 10.0 | 2400 | B | 9-240W | 9.0 | 2160 |
| C | 11-240W 4-105W | 12.8 | 3060 | D | 10-240W 4-105W | 11.8 | 2820 |
| TOTAL | 23-240W 4-105W | 22.8 | 5460 | TOTAL | 23-240W 4-105W | 20.8 | 4980 |

TOTAL CONNECTED LOAD: 10.4 KVA



LEGEND

-  PROPOSED LIGHTING UNIT
-  PROPOSED UNDERPASS LUMINAIRE
-  PROPOSED LIGHTING CONTROLLER
-  PROPOSED ELECTRIC SERVICE INSTALLATION

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| | | |
|-----------------------|-------------------|-----------|
| USER NAME = korabmp | DESIGNED - RAS | REVISED - |
| | DRAWN - MG | REVISED - |
| PLOT SCALE = | CHECKED - RAS | REVISED - |
| PLOT DATE = 8/12/2022 | DATE - 06/25/2021 | REVISED - |

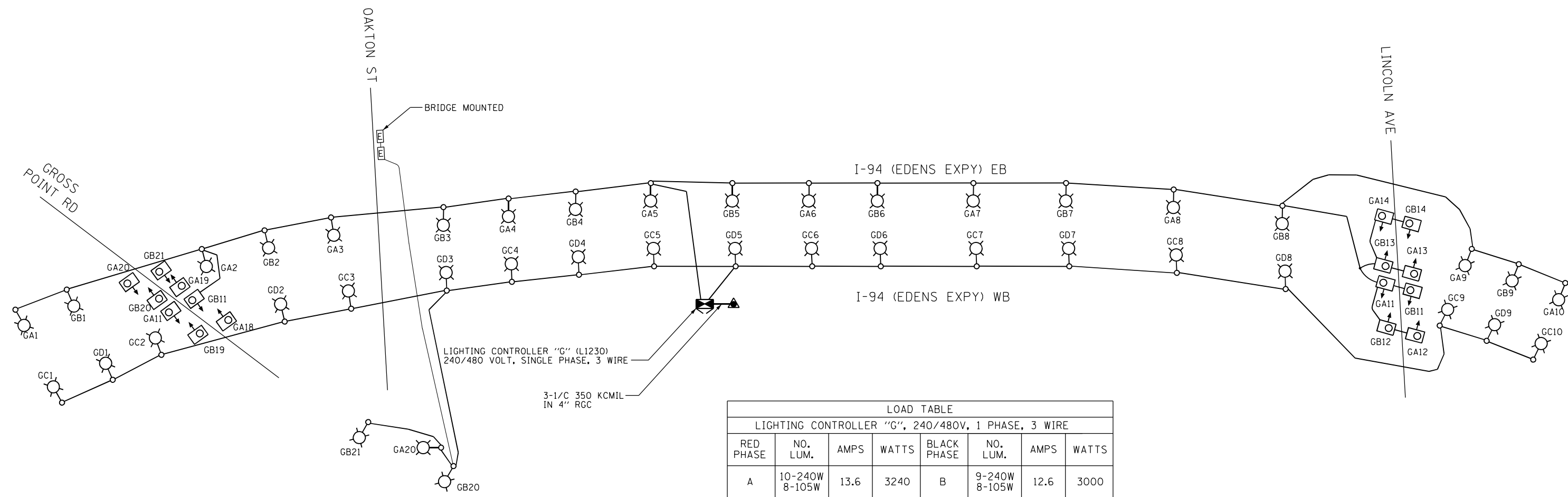
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SINGLE LINE DIAGRAM
LIGHTING CONTROLLER "F"

SCALE: NTS SHEET 72 OF 78 SHEETS STA. TO STA.

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|------------|--------|--------------|-----------|
| 94 | 2020-235-L | COOK | 148 | 122 |
| CONTRACT NO. 62N04 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

LT-72








LIGHTING CONTROLLER "G" (L1230)
240/480 VOLT, SINGLE PHASE, 3 WIRE

3-1/C 350 KCMIL
IN 4" RGC

| LOAD TABLE | | | | | | | |
|--|-------------------|------|-------|-------------|-------------------|------|-------|
| LIGHTING CONTROLLER "G", 240/480V, 1 PHASE, 3 WIRE | | | | | | | |
| RED PHASE | NO. LUM. | AMPS | WATTS | BLACK PHASE | NO. LUM. | AMPS | WATTS |
| A | 10-240W 8-105W | 13.6 | 3240 | B | 9-240W 8-105W | 12.6 | 3000 |
| C | 10-240W | 10.0 | 2400 | D | 9-240W | 9.0 | 2160 |
| TOTAL | 20-240W 8-105W | 28.3 | 5640 | TOTAL | 18-240W 8-105W | 29.3 | 5160 |

TOTAL CONNECTED LOAD: 10.8 KVA

LEGEND

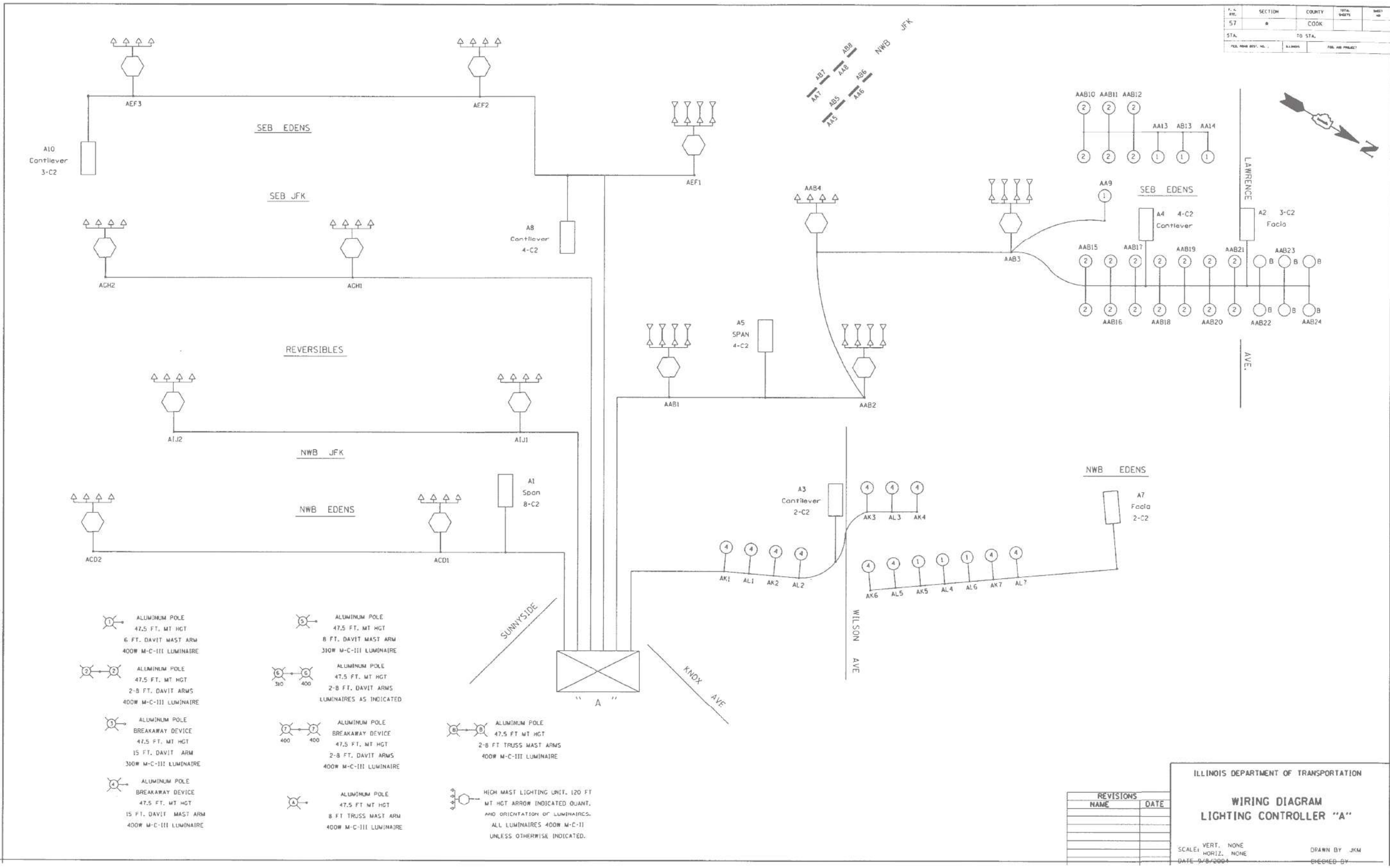
-  PROPOSED LIGHTING UNIT
-  PROPOSED UNDERPASS LUMINAIRE
-  PROPOSED LIGHTING CONTROLLER
-  PROPOSED ELECTRIC SERVICE INSTALLATION
-  EXISTING SIGN LIGHTING (TYPE AS NOTED)

LT-73

| | | | | | | | | | | |
|---------------|-----------------------|-------------------|-----------|---|--|--------------------|------------|--------|---------------------------|-----------|
| Jacobs | USER NAME = korabmp | DESIGNED - RAS | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | SINGLE LINE DIAGRAM LIGHTING CONTROLLER "G" | F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | PLOT SCALE = | CHECKED - RAS | REVISED - | | | 94 | 2020-235-L | COOK | 148 | 123 |
| | PLOT DATE = 8/12/2022 | DATE - 06/25/2021 | REVISED - | | | CONTRACT NO. 62N04 | | | ILLINOIS FED. AID PROJECT | |

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| | | | | |
|---------------------|----------|------------------|--------------|-----------|
| P.C. SEC. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 57 | B | COOK | | |
| STA. | TO STA. | | | |
| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT | | |



| REVISIONS | |
|-----------|------|
| NAME | DATE |
| | |
| | |
| | |
| | |

ILLINOIS DEPARTMENT OF TRANSPORTATION

WIRING DIAGRAM LIGHTING CONTROLLER "A"

SCALE: VERT. NONE
HORIZ. NONE

DATE: 9/8/2004

DRAWN BY: JKM
CHECKED BY: _____

FOR INFORMATION ONLY

LT-74

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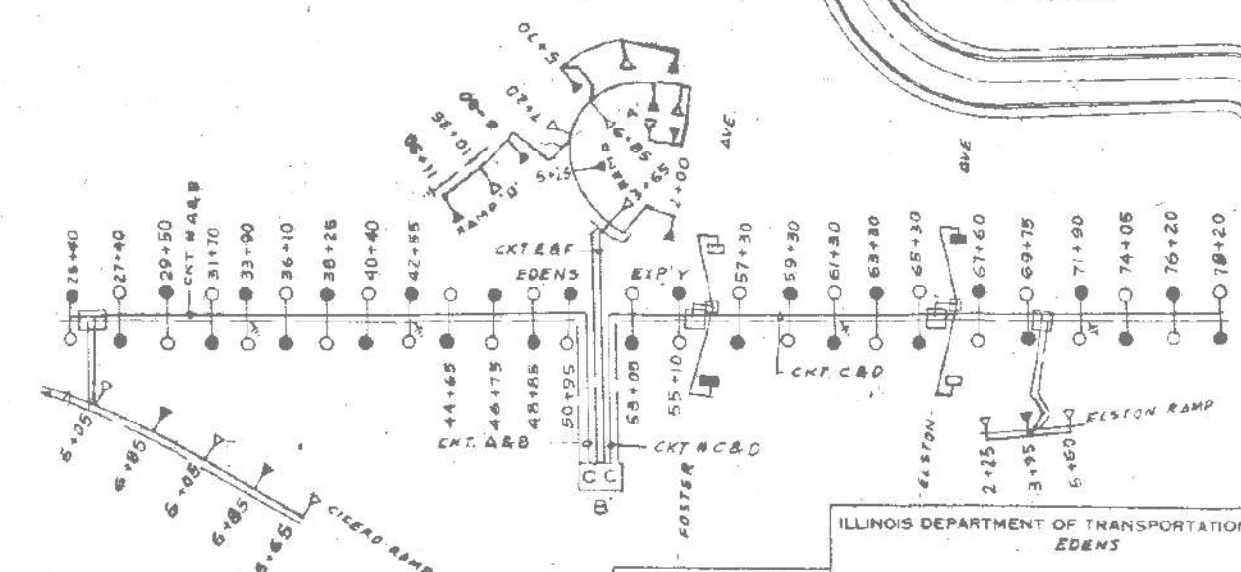
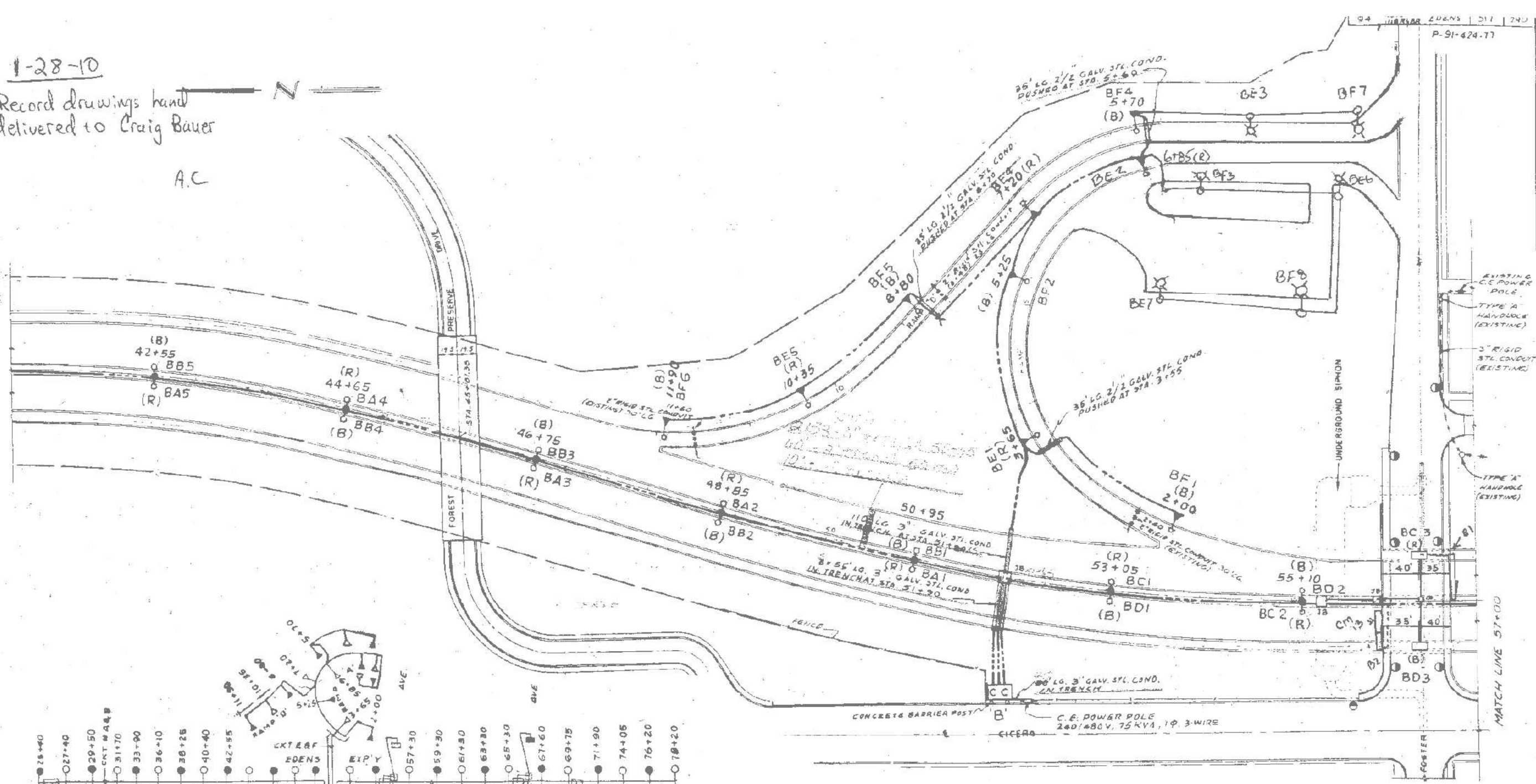
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|---------------|----------------------|-------------------|-----------|---|--|--------------------|------------|--------|---------------------------|-----------|
| Jacobs | USER NAME = korabmp | DESIGNED - RAS | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | CONTROLLER A AS-BUILT INFORMATION | F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | PLOT SCALE = | CHECKED - RAS | REVISED - | | | 94 | 2020-235-L | COOK | 148 | 124 |
| | PLOT DATE = 7/1/2022 | DATE - 06/25/2021 | REVISED - | | | CONTRACT NO. 62N04 | | | ILLINOIS FED. AID PROJECT | |

SCALE: NTS SHEET 74 OF 78 SHEETS STA. TO STA.

1-28-10
Record drawings hand delivered to Craig Bauer

A.C

P-91-424.77



- SYMBOLS**
- 2- 310W LAMP ONE ON RED & ONE ON BLACK CABLE
 - 1- 310W LAMP ON RED CABLE
 - 1- 310W LAMP ON BLACK CABLE
 - 1- 200W LAMP ON RED CABLE
 - 1- 200W LAMP ON BLACK CABLE
 - 1000 W METAL HALIDE LAMP ON RED CABLE
 - 1000 W METAL HALIDE LAMP ON BLACK CABLE
 - 150 W UNDERPASS LAMP ON RED CABLE
 - 150 W UNDERPASS LAMP ON BLACK CABLE
 - ⊥ GROUNDING LOCATION & BARE COPPER WIRE

| REVISIONS | |
|-----------|------|
| NAME | DATE |
| | |
| | |
| | |

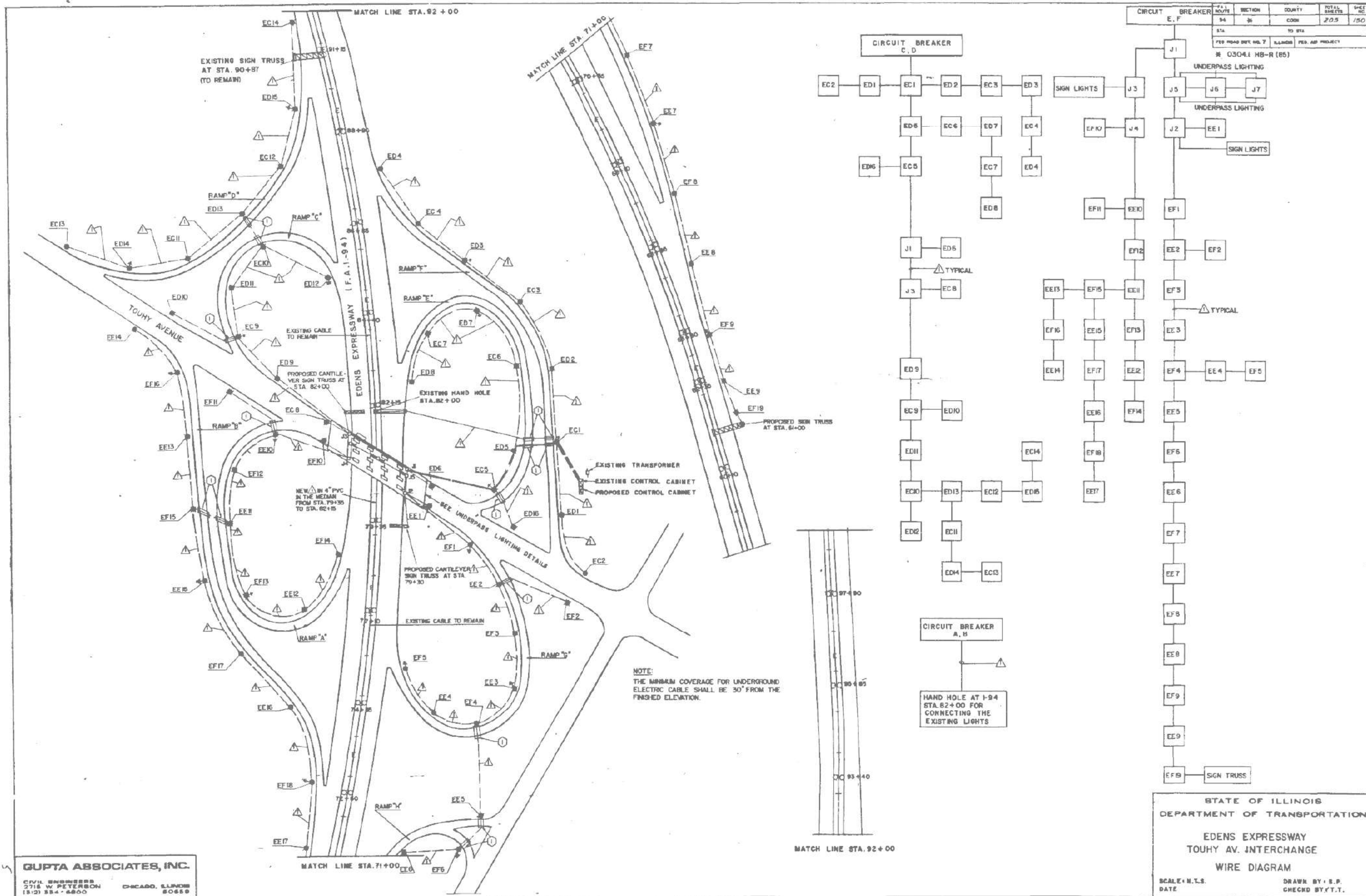
ILLINOIS DEPARTMENT OF TRANSPORTATION
EDENS
WIRING DIAGRAM
SCALE: VERT. 1"=20'
HORIZ. 1"=50'
DRAWN BY: _____
CHECKED BY: _____

ILLINOIS DEPARTMENT OF TRANSPORTATION
EDENS
LIGHTING PLAN
SCALE: 1"=50'

FOR INFORMATION ONLY

LT-75

| | | | | | | | | | | |
|---------------|----------------------|-------------------|-----------|---|-----------------------------------|----------------|----------------------------|-------------|--------------------|---------------|
| Jacobs | USER NAME = korabmp | DESIGNED - RAS | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | CONTROLLER B AS-BUILT INFORMATION | F.A.I. RTE. 94 | SECTION 2020-235-L | COUNTY COOK | TOTAL SHEETS 148 | SHEET NO. 125 |
| | PLOT SCALE = | CHECKED - RAS | REVISED - | | | SCALE: NTS | SHEET 75 OF 78 SHEETS STA. | TO STA. | CONTRACT NO. 62N04 | |
| | PLOT DATE = 7/1/2022 | DATE - 06/25/2021 | REVISED - | | | | | | | |



FOR INFORMATION ONLY

LT-77

Jacobs

| | | |
|----------------------|-------------------|-----------|
| USER NAME = korabmp | DESIGNED - RAS | REVISED - |
| PLOT SCALE = | DRAWN - MPK | REVISED - |
| PLOT DATE = 7/1/2022 | CHECKED - RAS | REVISED - |
| | DATE - 06/25/2021 | REVISED - |

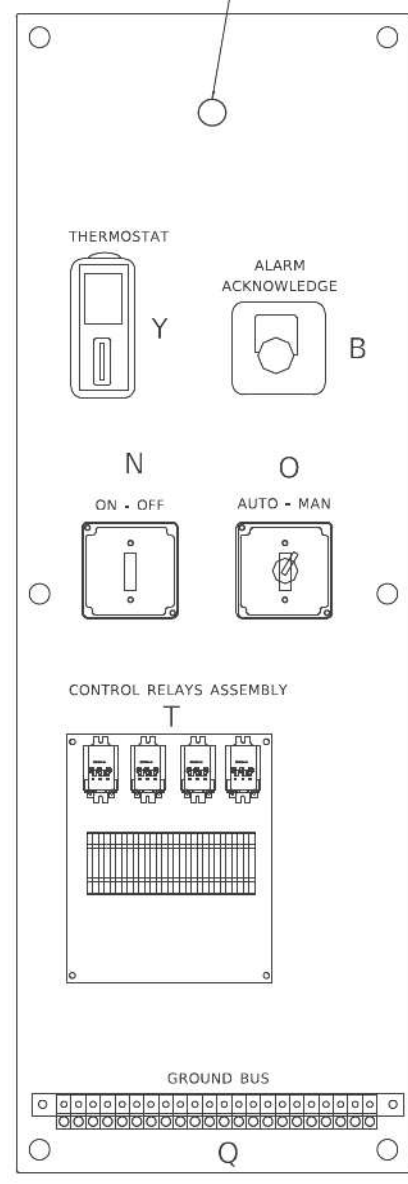
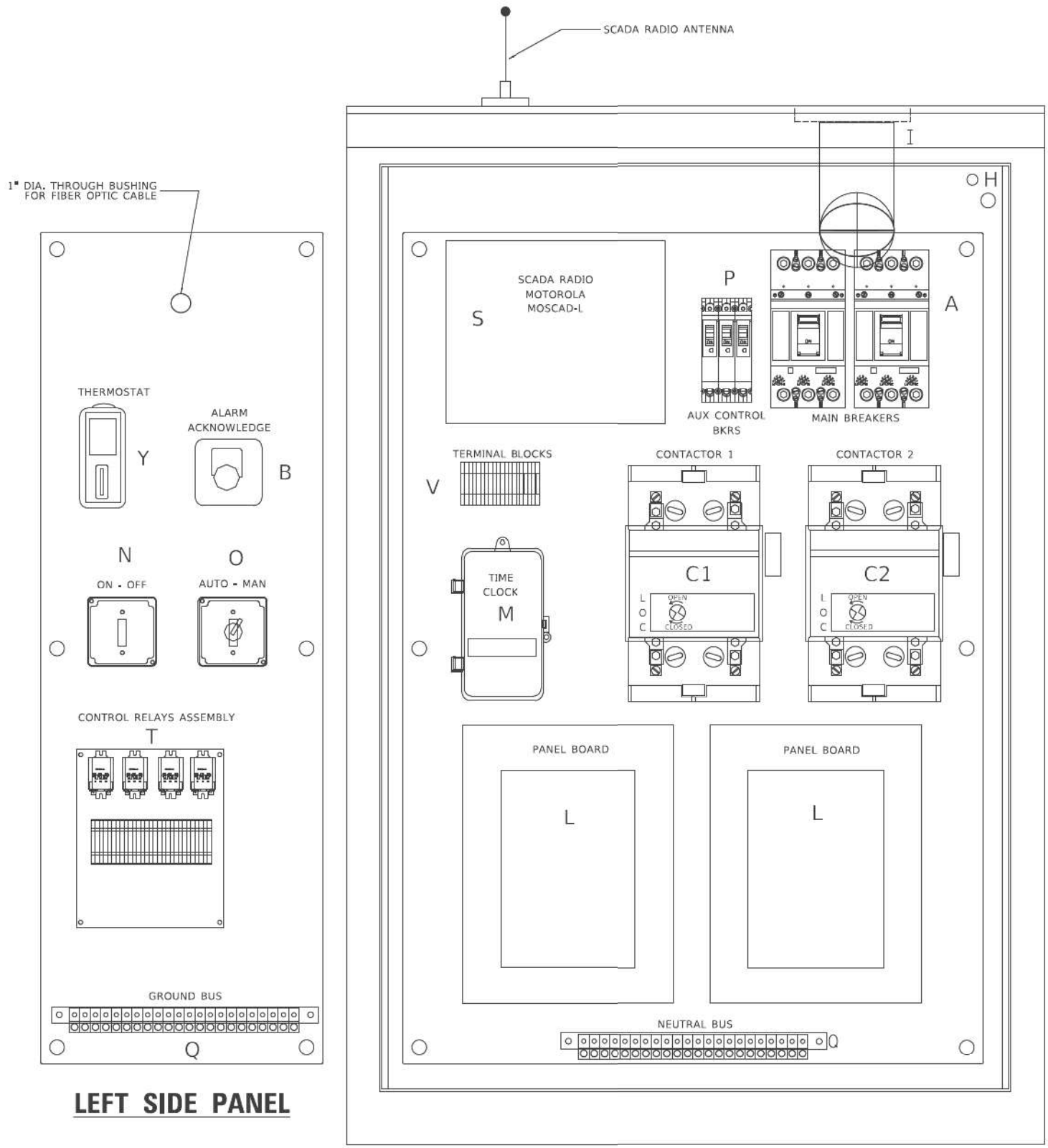
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CONTROLLER E AS-BUILT INFORMATION

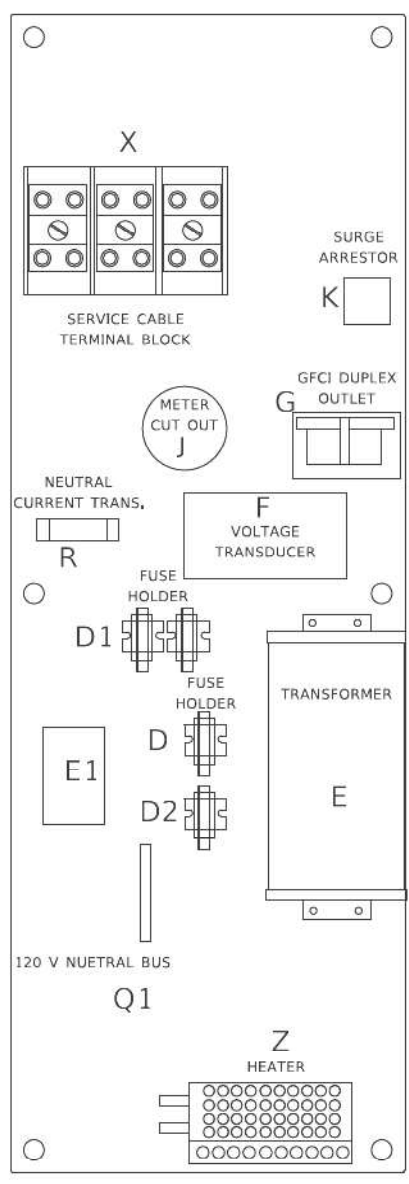
SCALE: NTS SHEET 77 OF 78 SHEETS STA. TO STA.

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|------------|--------|--------------|-----------|
| 94 | 2020-235-L | COOK | 148 | 127 |
| CONTRACT NO. 62N04 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

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LEFT SIDE PANEL



RIGHT SIDE PANEL

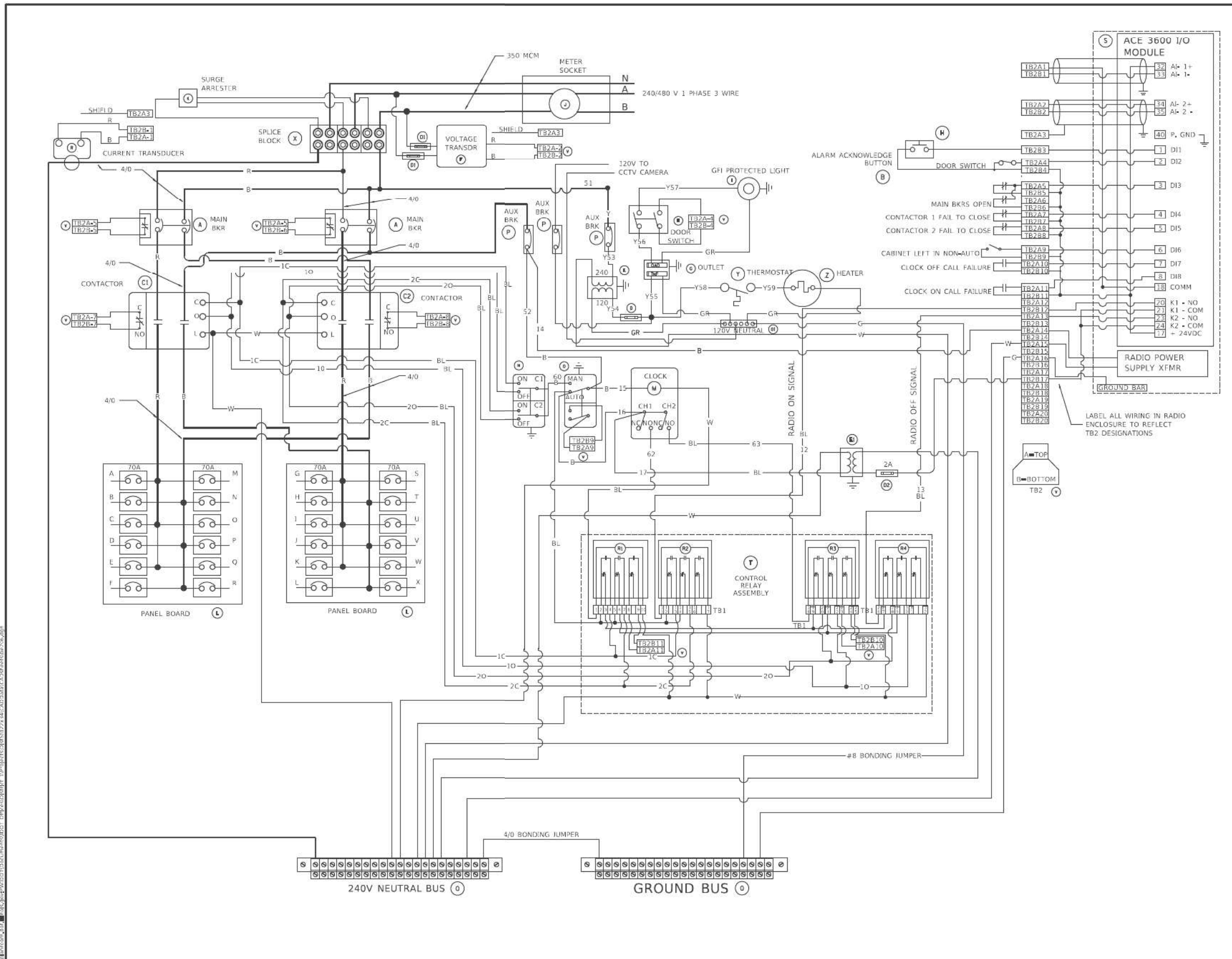
| BILL OF MATERIALS | | |
|-------------------|-----|--|
| ITEM | QTY | DESCRIPTION |
| A | 2 | MAIN CIRCUIT BREAKERS 2 POLE 200 AMP WITH AUX CONTACT |
| B | 1 | ACKNOWLEDGE SWITCH, PUSH BUTTON WITH YELLOW INSERT |
| C1, C2* | 2 | CONTACTOR 2 POLE 200 AMP 240V COIL WITH AUX CONTACTS |
| D | 1 | FINGERSAFE 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 - | 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. _____ BE-206 CONTRACT NO. _____ ILLINOIS FED. AID PROJECT |
|---|---|---|--|--|

| | | | | | |
|---------------|---|---|---|--|--|
| Jacobs | USER NAME = korabmp DESIGNED - HP DRAWN - MPK CHECKED - RAS DATE - 06/25/2021 | REVISIONS REVISED - REVISED - REVISED - REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | DISTRICT ONE ELECTRICAL DETAILS | F.A.I. RTE. 94 SECTION 2020-235-L COUNTY COOK TOTAL SHEETS 148 SHEET NO. 129 CONTRACT NO. 62N04 ILLINOIS FED. AID PROJECT |
|---------------|---|---|---|--|--|

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 MCD141.dwg
 PLOT SCALE = 3/16" = 1'



| 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 EQLAL |
| 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 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 |

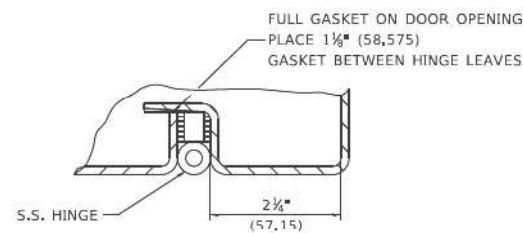
* TERMINALS SHALL BE COVERED WITH CLEAR PLEXIGLASS SHEET

| | | | | |
|---|--|---|--|--|
| USER NAME = keya DESIGNED - B. TOMSONS DRAWN - CHECKED - DATE - 01-15-2020 | REVISIONS REVISED - REVISED - 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. _____ BE-206 CONTRACT NO. _____ ILLINOIS FED. AID PROJECT |
|---|--|---|--|--|

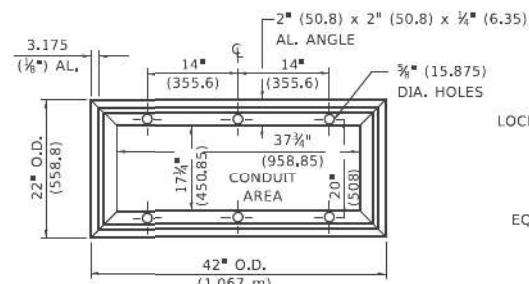
| | | | | | |
|---------------|--|--|---|--|---|
| Jacobs | USER NAME = korabmp DESIGNED - HP DRAWN - MPK CHECKED - RAS DATE - 06/25/2021 | REVISIONS REVISED - REVISED - REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | DISTRICT ONE ELECTRICAL DETAILS | F.A.I. RTE. 94 SECTION 2020-235-L COUNTY COOK TOTAL SHEETS 148 SHEET NO. 130 CONTRACT NO. 62N04 ILLINOIS FED. AID PROJECT |
|---------------|--|--|---|--|---|

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 PROJECT: 2020-235-L
 SHEET: 130 OF 148
 DATE: 06/25/2021

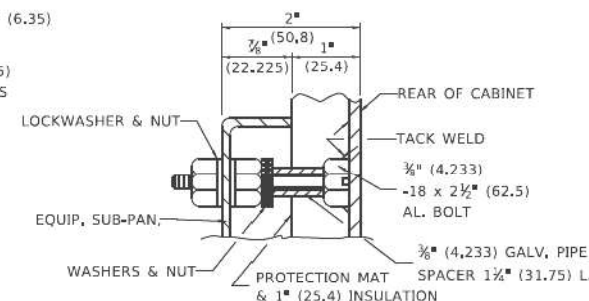
LT-80



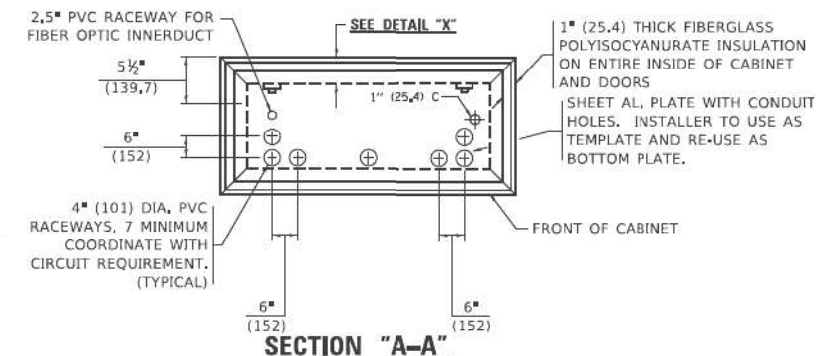
DETAIL "Y"



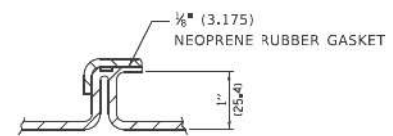
BASE MTG. DETAIL



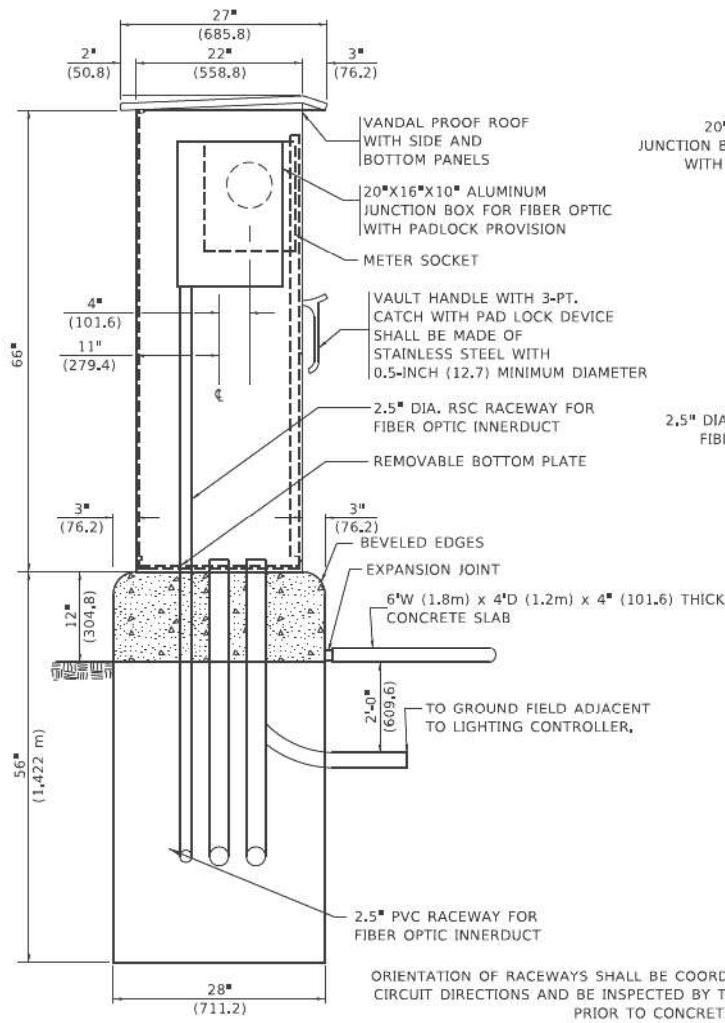
DETAIL "X"



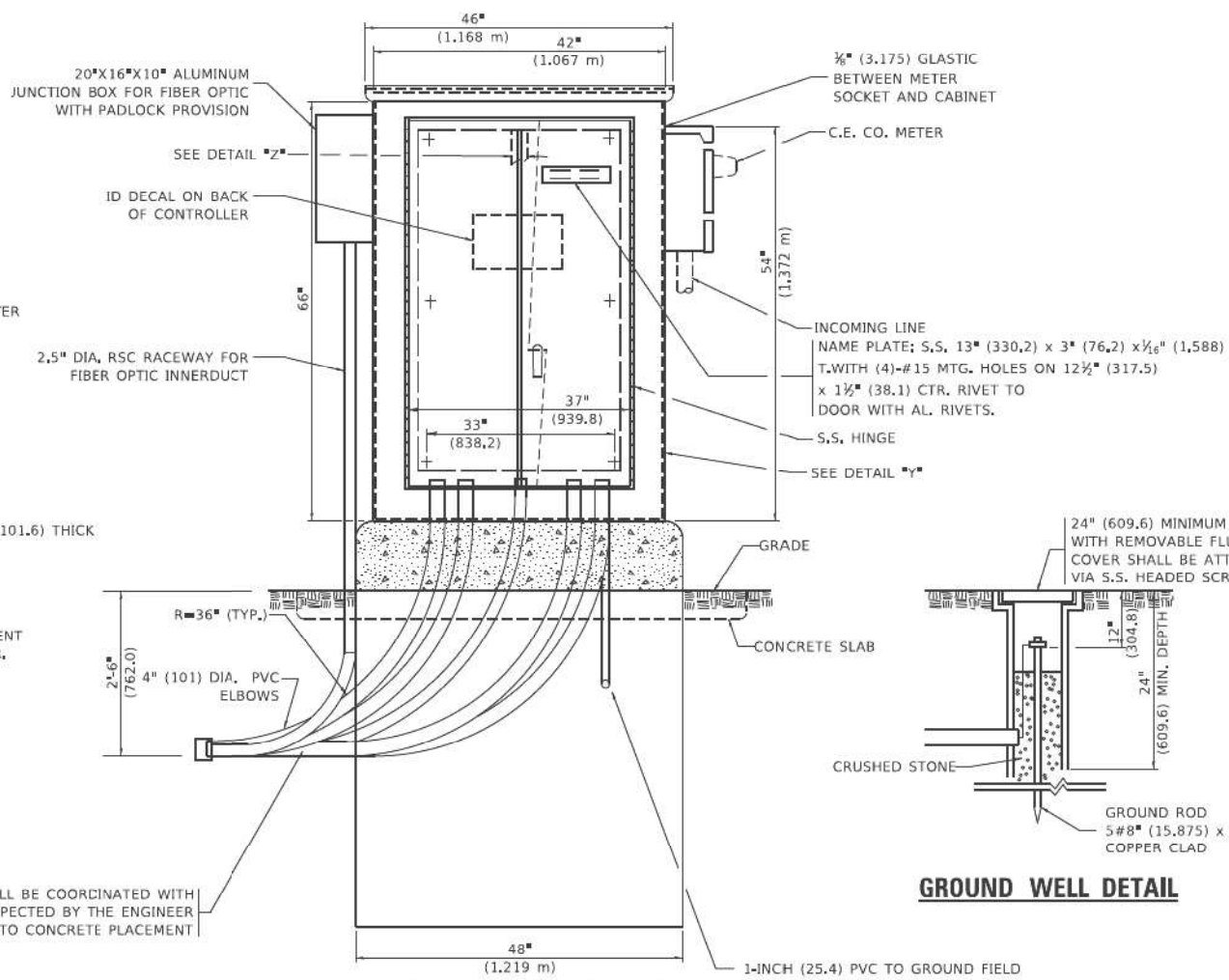
SECTION "A-A"



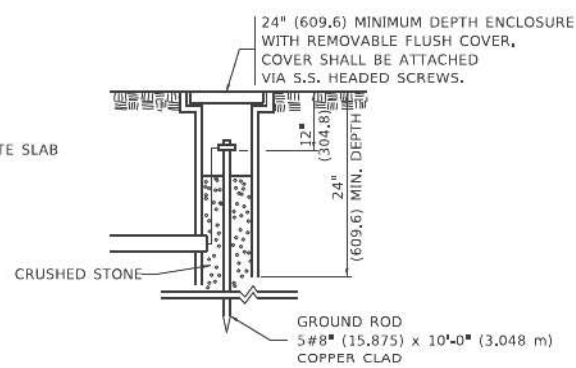
DETAIL "Z"



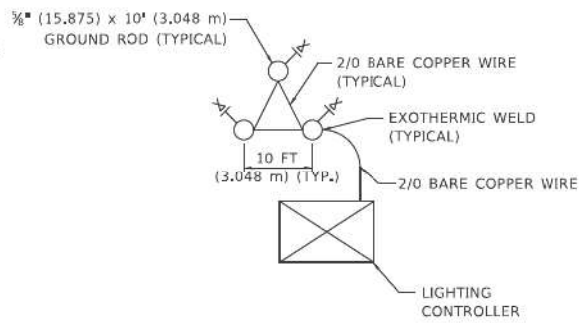
LEFT SIDE ELEVATION



FRONT ELEVATION



GROUND WELL DETAIL



GROUND FIELD DETAIL (N.T.S.)

THE CONTRACTOR SHALL VERIFY EXACT LOCATION WITH THE ENGINEER

MCD141.dwg

| | | |
|----------------------------------|------------------------------|-----------|
| USER NAME = koysa | 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 | |

Jacobs

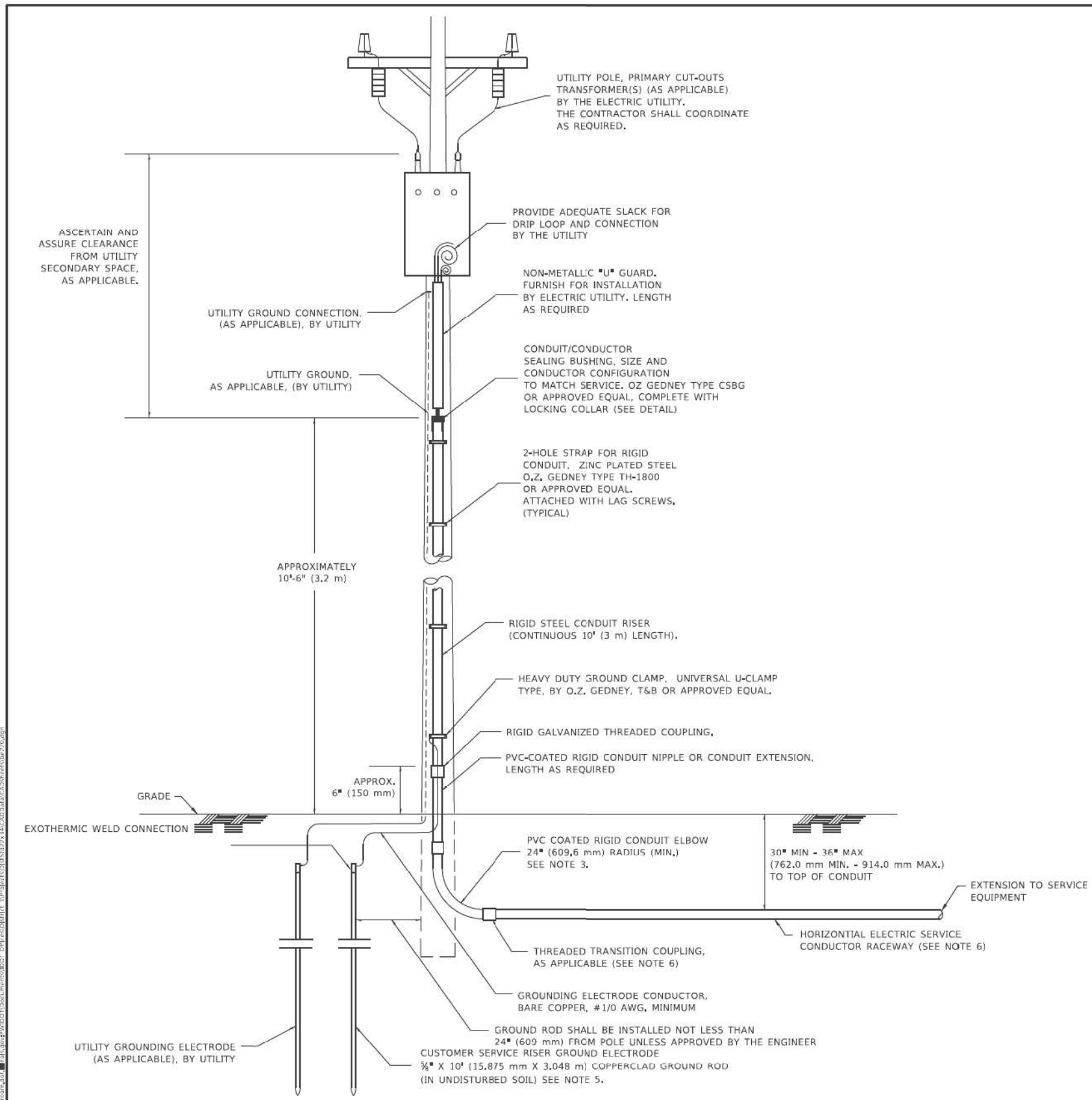
| | | |
|-----------------------------|--------------------------|-----------|
| USER NAME = korabmp | DESIGNED - HP | REVISED - |
| PLOT SCALE = | DRAWN - MPK | REVISED - |
| PLOT DATE = 7/1/2022 | CHECKED - RAS | REVISED - |
| | DATE - 06/25/2021 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE
ELECTRICAL DETAILS**

SCALE: NTS SHEET OF SHEETS STA. TO STA.

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|-----------|-------------------|---------------------------|------------|
| | | | | |
| | 94 | 2020-235-L | 148 | 131 |
| CONTRACT NO. 62N04 | | | ILLINOIS FED. AID PROJECT | |

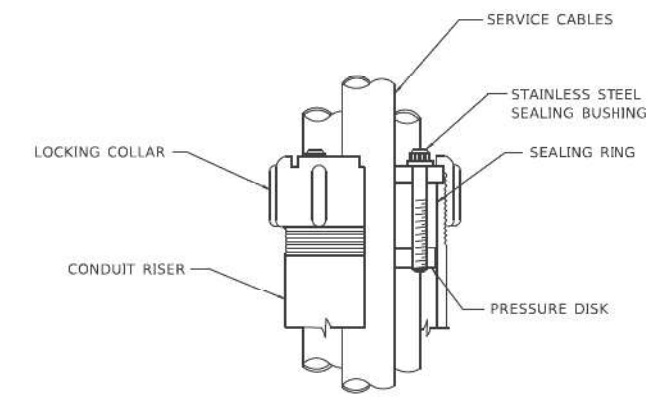


APPLICATION

THIS DETAIL APPLIES FOR LOW VOLTAGE ELECTRIC SERVICE (660 V OR LESS) FROM AN OVERHEAD UTILITY SUPPLY TO SEPERATLY-MOUNTED SERVICE EQUIPMENT.

NOTES

- SERVICE VOLTAGE SHALL BE AS INDICATED ELSEWHERE IN THE DRAWINGS.
- UNLESS OTHERWISE INDICATED, ITEMS AND WORK SHALL BE INCLUDED AND PAID AS PART OF THE ELECTRIC UTILITY SERVICE INSTALLATION PAY ITEM.
- CONDUIT AND CONNECTOR DIAMETER SHALL MATCH THE DIAMETER OF THE SERVICE CONDUCTOR RACEWAY AS INDICATED ON THE PLANS.
- PVC COATED RACEWAYS AND ACCESSORIES SHALL BE CAREFULLY INSTALLED WITH MFR RECOMMENDED TOOLS AND PROCEDURES TO AVOID DAMAGE. ANY DAMAGE SHALL BE REPAIRED WITH COMPATIBLE PVC TOUCH-UP MATERIAL TO THE SATISFACTION OF THE ENGINEER OR THE DAMAGED MATERIAL SHALL BE REPLACED AT NO ADDITIONAL COST.
- THE CONTRACTOR SHALL OBTAIN INSPECTION AND APPROVAL BY THE ENGINEER OF SERVICE RISER GROUND ELECTRODE, RISER ELBOW, NIPPLE AND CONNECTION TO SERVICE CONDUCTOR RACEWAY EXTENSION BEFORE BACKFILL AND SHALL ALSO OBTAIN INSPECTION OF SERVICE RISER AND SEALING BUSHING BEFORE UTILITY "U" GUARD INSTALLATION AND SERVICE CONNECTION.
- THE HORIZONTAL ELECTRIC SERVICE CONDUCTOR RACEWAY SHALL BE AS INDICATED AND SHALL BE MEASURED SEPARATELY FOR PAYMENT, WHEN THE RACEWAY IS PVC-COATED RIGID GALVANIZED STEEL, THE COUPLING SHALL BE THE SAME, WHEN THE RACEWAY IS PVC CONDUIT (IN CONCRETE), THE COUPLING SHALL BE A METALIC TO NON METALIC ADAPTER. WHEN THE RACEWAY IS ENCASED IN CONCRETE, THE CONCRETE SHALL EXTEND TO COVER THE COUPLING.
- PLANS AND DETAILS INDICATE THE GENERAL NATURE AND REQUIREMENTS. THEY DO NOT SHOW EVERY ACCESSORY AND ATTACHMENT, AND THEY DO NOT RELIEVE THE CONTRACTOR OF THE REQUIREMENTS OF THE SPECIFICATIONS AND SPECIAL PROVISIONS TO ASCERTAIN UTILITY REQUIREMENTS AND TO COORDINATE ACCORDINGLY, FURNISHING ALL ITEMS AND WORK NOT PROVIDED BY THE UTILITY, BUT NECESSARY FOR A COMPLETE SERVICE INSTALLATION IS REQUIRED AND SHALL BE INCLUDED IN THE ELECTRIC UTILITY SERVICE INSTALLATION PAY ITEM.

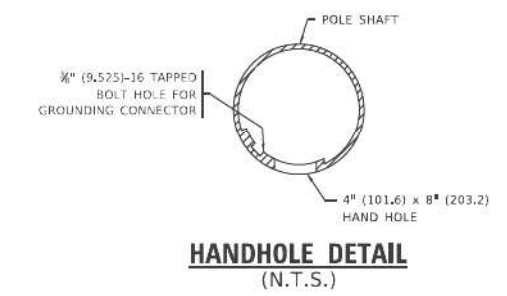
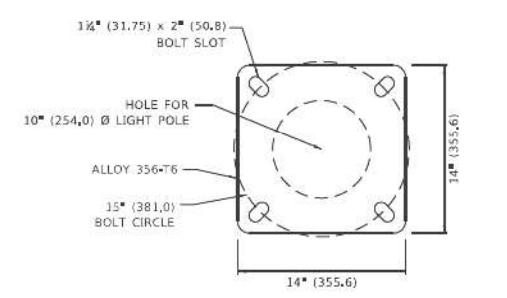
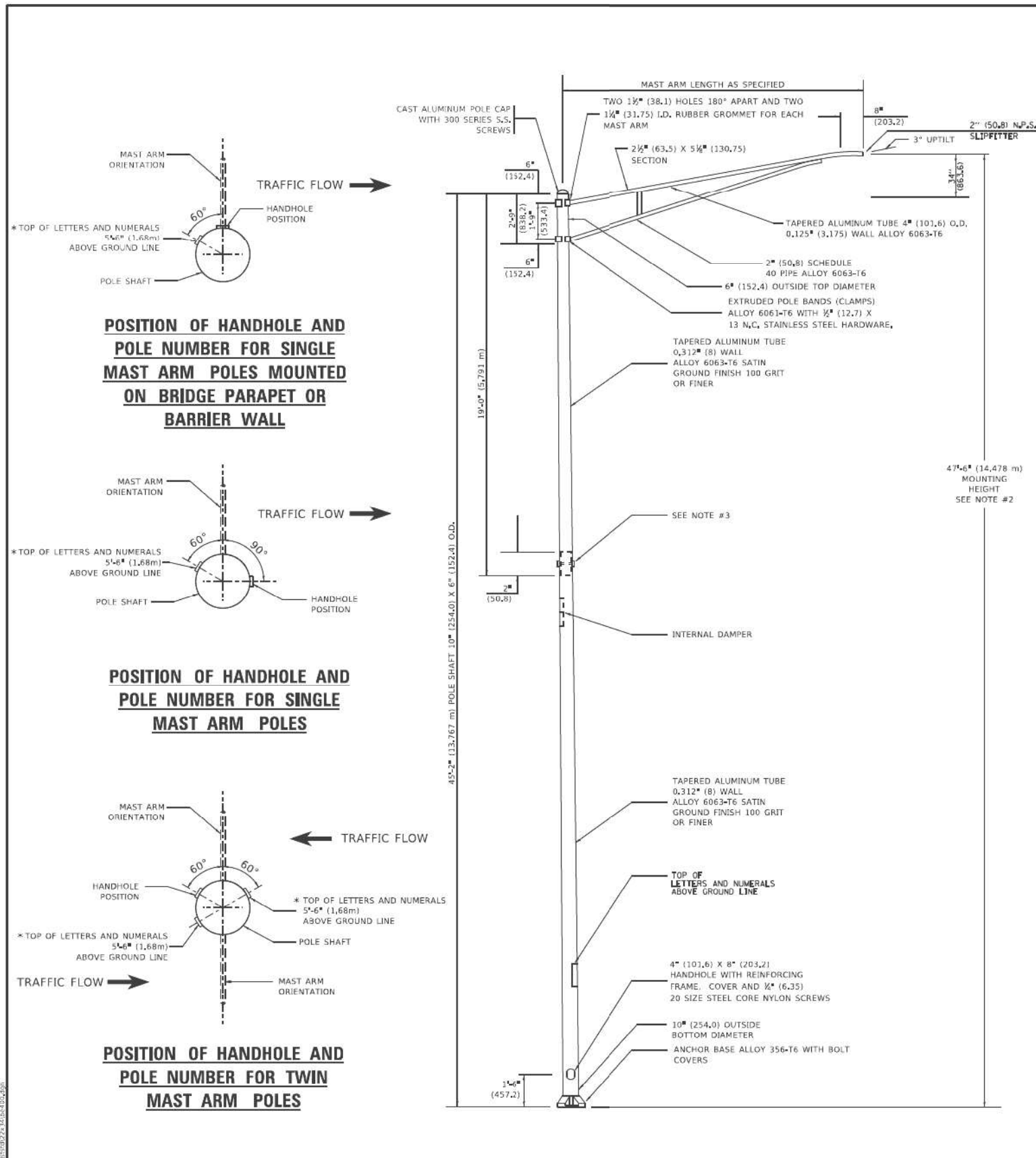


SEALING BUSHING DETAIL

| | | | | | | | | | | | | | | | |
|---------------------------|---------------|--------------------|---|--|--|--|--|--|--|--|-------------|---------|--------------------|--------------|-----------|
| USER NAME = footey | DESIGNED - | REVISED - 03-03-06 | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | | | | ELECTRIC SERVICE INSTALLATION AERIAL, REMOTE DISCONNECT | | | | F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| PLOT SCALE = 3/8" = 1'-0" | DRAWN - | REVISED - | | | | | | | | | SCALE: NONE | SHEET 1 | OF 1 | SHEETS | STA. |
| PLOT DATE = 4/19/2019 | CHECKED - MEA | REVISED - | | | | | | | | | BE-220 | | CONTRACT NO. | | |
| | DATE - | REVISED - | | | | | | | | | ILLINOIS | | CONTRACT NO. 62N04 | | |

| | | | | | | | | | | | | | | | | |
|---------------|----------------------|---------------|-----------|---|--|--|--|--|--|--|----------|-------------|--------------------|--------|--------------|-----------|
| Jacobs | USER NAME = korabmp | DESIGNED - HP | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | | | | DISTRICT ONE ELECTRICAL DETAILS | | | | F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | PLOT SCALE = | DRAWN - MPK | REVISED - | | | | | | | | | SCALE: NTS | SHEET | OF | SHEETS | STA. |
| | PLOT DATE = 7/1/2022 | CHECKED - RAS | REVISED - | | | | | | | | | 94 | 2020-235-L | COOK | 148 | 133 |
| | DATE - 06/25/2021 | REVISED - | | | | | | | | | ILLINOIS | | CONTRACT NO. 62N04 | | | |

p:\Projects\user\ER_jacobs\comb03\Documents\C9206688_1-94.115.41\C9206688_700\cadd\703\select\lighting Plans (50 Scale).62N04 -ht-standard-5.dgn
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- NOTES**
1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
 2. MOUNTING HEIGHT IS DEFINED AS THE DISTANCE FROM THE CENTERLINE OF THE TENON TO THE BOTTOM OF THE ANCHOR BASE.
 3. TWO PIECE SHAFT WILL BE MATCHED MARKED AND INTERCHANGEABLE BETWEEN DIFFERENT UNITS. FIELD DRILLING OF THE HOLES WILL NOT BE ALLOWED.
 4. THE LIGHT POLE WILL MEET AASHTO DESIGN CRITERIA AS SPECIFIED.
 5. THE INSTALLING CONTRACTOR WILL PROVIDE A UL LISTED GROUNDING CONNECTOR, BURNDY K2C23, T&B SP4DL OR APPROVED EQUAL.
 6. LIGHT POLES WILL NOT BE INSTALLED WITHOUT MAST ARMS AND LUMINAIRES.
 7. LIGHT POLES WILL BE SET PLUMB ON THE FOUNDATION WITHOUT THE USE OF LEVELING NUTS, WASHERS OR SHIMS.
 8. LIGHTING UNIT IDENTIFICATION NUMBERS SHALL BE INSTALLED BEFORE THE LIGHTING UNIT IS ENERGIZED.

| | | | | | | | | | | | |
|-------------------------------|------------|-------------------------------|---|--|---------|------|-------------|---------|---------|-------------------------------|-----------|
| USER NAME = Lawrence_DeManche | DESIGNED - | REVISED - R. TOMSONS 09-03-03 | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | ALUMINUM LIGHT POLE 47'-6" (14.478 m) MOUNTING HEIGHT | | | F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| PLT SCALE = 1/8" = 1'-0" | DRAWN - | REVISED - R. TOMSONS 01-18-13 | | SCALE: NONE | SHEET 1 | OF 1 | SHEETS | STA. | TO STA. | BE-400 CONTRACT NO. | |
| PLT DATE = 6/27/2022 | CHECKED - | REVISED - R. TOMSONS 03-18-15 | | ILLINOIS FED. AID PROJECT | | | | | | | |
| | DATE - | REVISED - 06/13/2022 TG | | | | | | | | | |

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| | | |
|----------------------|-------------------|-----------|
| USER NAME = korabmp | DESIGNED - HP | REVISED - |
| | DRAWN - MPK | REVISED - |
| PLT SCALE = | CHECKED - RAS | REVISED - |
| PLT DATE = 8/12/2022 | DATE - 06/25/2021 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

| | | | |
|--|-------|---------|--------|
| DISTRICT ONE ELECTRICAL DETAILS | | | |
| SCALE: NTS | SHEET | OF | SHEETS |
| STA. | | TO STA. | |

| | | | | |
|---------------------------|------------|--------|--------------|-----------|
| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 94 | 2020-235-L | COOK | 148 | 135 |
| CONTRACT NO. 62N04 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

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LT-86



| | | |
|-----------------------|-------------------|-----------|
| USER NAME = korabmp | DESIGNED - HP | REVISED - |
| | DRAWN - MPK | REVISED - |
| PLOT SCALE = | CHECKED - RAS | REVISED - |
| PLOT DATE = 8/12/2022 | DATE - 06/25/2021 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE
ELECTRICAL DETAILS**

SCALE: NTS SHEET OF SHEETS STA. TO STA.

| F.A.I RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|------------|--------|-----------------|--------------|
| 94 | 2020-235-L | COOK | 148 | 136 |
| CONTRACT NO. 62N04 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

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SHEET INTENTIONALLY LEFT BLANK

LT-87



| | | |
|-----------------------|-------------------|-----------|
| USER NAME = korabmp | DESIGNED - HP | REVISED - |
| | DRAWN - MPK | REVISED - |
| PLOT SCALE = | CHECKED - RAS | REVISED - |
| PLOT DATE = 8/12/2022 | DATE - 06/25/2021 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE
ELECTRICAL DETAILS**

SCALE: NTS SHEET OF SHEETS STA. TO STA.

| F.A.I RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|------------|--------|-----------------|--------------|
| 94 | 2020-235-L | COOK | 148 | 137 |
| CONTRACT NO. 62N04 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

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LT-88



| | | |
|-----------------------|-------------------|-----------|
| USER NAME = korabmp | DESIGNED - HP | REVISED - |
| | DRAWN - MPK | REVISED - |
| PLOT SCALE = | CHECKED - RAS | REVISED - |
| PLOT DATE = 8/12/2022 | DATE - 06/25/2021 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

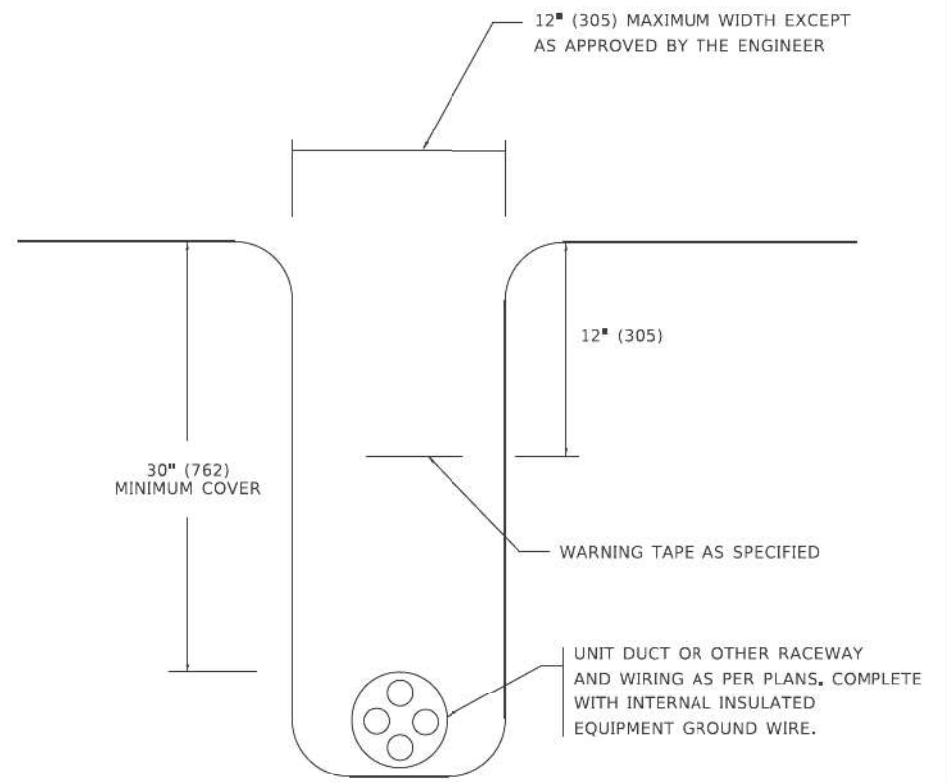
**DISTRICT ONE
ELECTRICAL DETAILS**

SCALE: NTS SHEET OF SHEETS STA. TO STA.

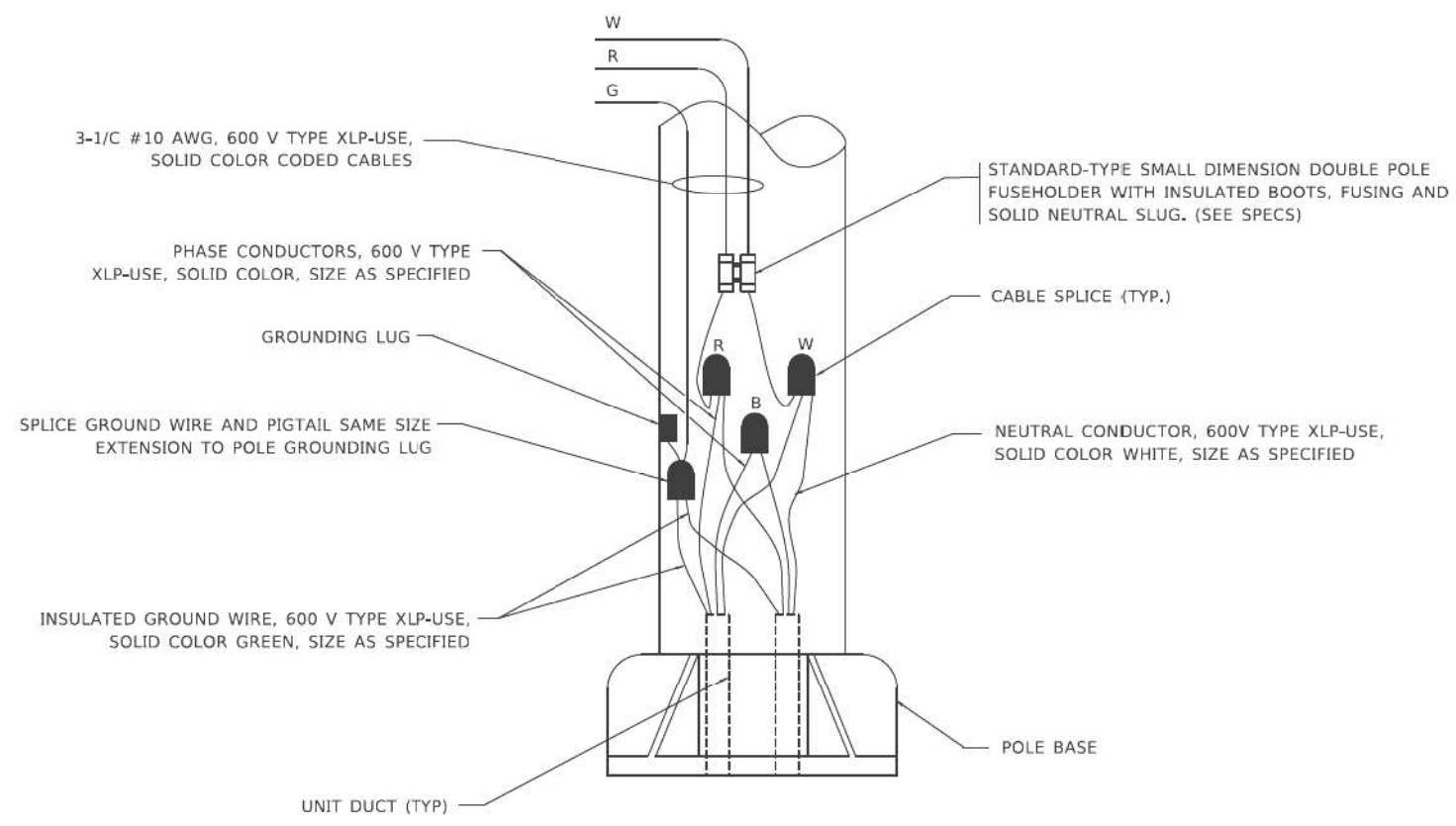
| F.A.I RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|------------|--------|-----------------|--------------|
| 94 | 2020-235-L | COOK | 148 | 138 |
| CONTRACT NO. 62N04 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



TYPICAL SPlice DETAIL
N.T.S.



TYPICAL WIRING IN TRENCH DETAIL
N.T.S.

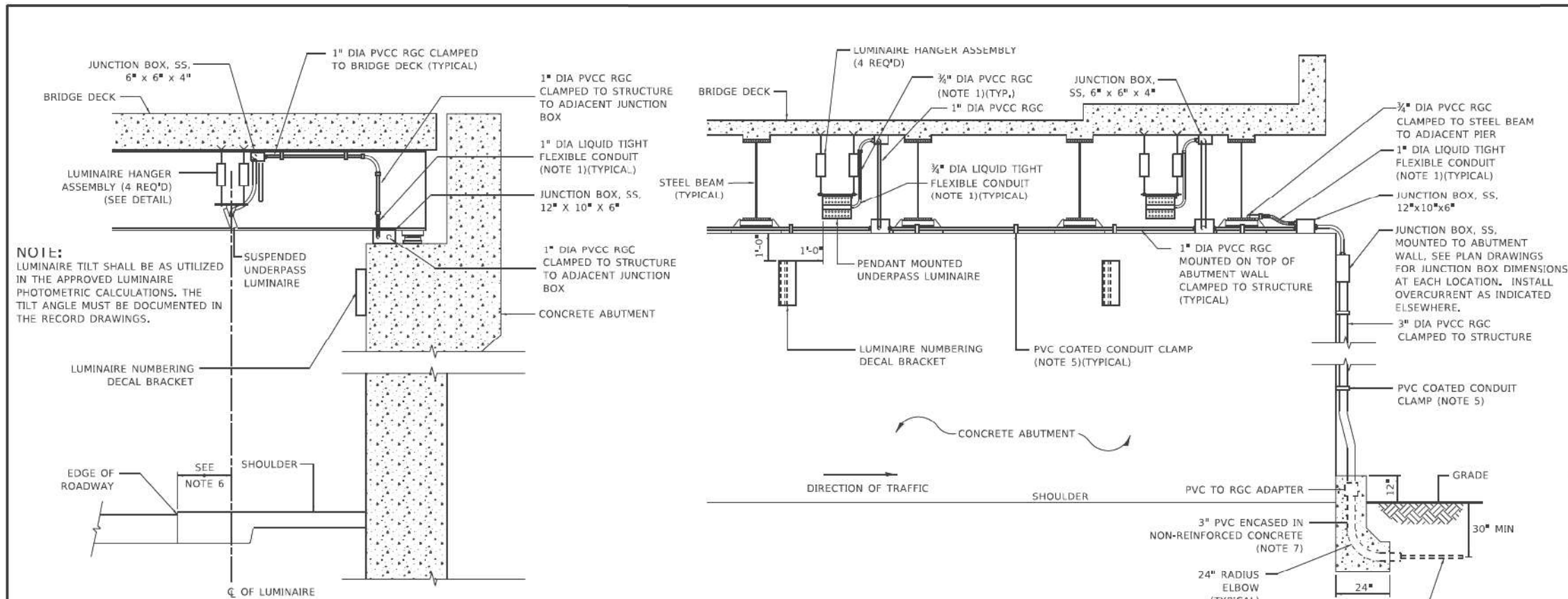


POLE WIRING DETAIL
N.T.S.

| | | | | | | | | | |
|--|--|---|---|---|--|-------------------------------------|--|---|--------------|
| USER NAME = kaysa DESIGNED - DRAWN - CHECKED - DATE = 08/08/2003 | DESIGNED - DRAWN - CHECKED - DATE = | REVISED - 02/04/2020 REVISED - REVISED - REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | MISC. ELECTRICAL DETAILS SHEET A | | | | F.A.I. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO. | CONTRACT NO. |
| | | | | PLOT SCALE = 3/8" = 1'-0" PLOT DATE = 3/2/2020 | SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA. | BE-702 ILLINOIS FED. AID PROJECT | | | |

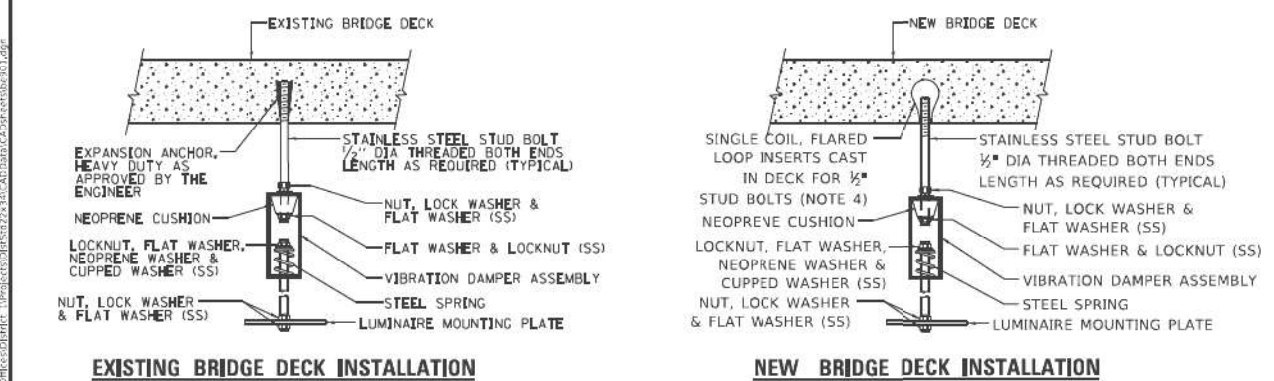
| | | | | | | | | | | |
|---------------|---|--|--|---|--|---|--|--|---|--------------------|
| Jacobs | USER NAME = korabmp DESIGNED - HP DRAWN - MPK CHECKED - RAS DATE = 06/25/2021 | DESIGNED - DRAWN - CHECKED - DATE = | REVISED - REVISED - REVISED - REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | DISTRICT ONE ELECTRICAL DETAILS | | | | F.A.I. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO. | CONTRACT NO. 62N04 |
| | | | | | PLOT SCALE = PLOT DATE = 8/12/2022 | SCALE: NTS SHEET OF SHEETS STA. TO STA. | 94 2020-235-L COOK 148 140 | | | |

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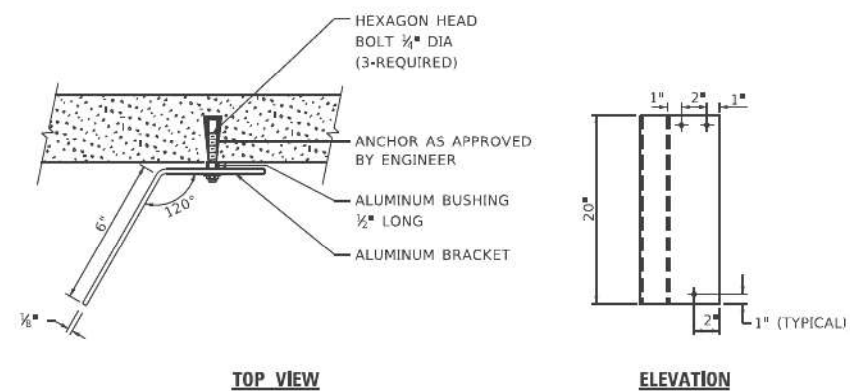


NOTE:
LUMINAIRE TILT SHALL BE AS UTILIZED IN THE APPROVED LUMINAIRE PHOTOMETRIC CALCULATIONS. THE TILT ANGLE MUST BE DOCUMENTED IN THE RECORD DRAWINGS.

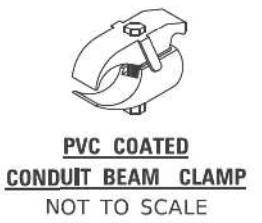
- NOTES:**
1. LIQUID TIGHT FLEXIBLE METAL CONDUIT, MAXIMUM LENGTH 6'-0", TYPICAL FOR EACH INSTANCE AS SHOWN. PROVIDE PVC COATED RIGID GALVANIZED STEEL CONDUIT AS REQUIRED NOT TO EXCEED 6'-0" OF FLEXIBLE LIQUID TIGHT METAL CONDUIT. LIQUID TIGHT FLEXIBLE METAL CONDUIT WILL BE INCLUDED IN THE COST OF THE CONDUIT ATTACHED TO STRUCTURE, OF THE CORRESPONDING DIA., GALVANIZED STEEL, PVC COATED PAY ITEM EXCEPT THAT 1" DIA. CONDUIT AND 1/2" DIA. FLEXIBLE CONDUIT SHALL BE INCLUDED IN THE COST OF UNDERPASS LUMINAIRE INSTALLATION.
 2. SEE UNDERPASS LIGHTING PLANS FOR INSTALLATION LOCATION OF UNDERPASS LIGHTING LUMINAIRES.
 3. 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.
 4. 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.
 5. 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.
 6. 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.
 7. THE CONCRETE ENCASED CONDUIT TRANSITION SHALL BE INCLUDED IN THE COST OF THE GALVANIZED RIGID STEEL CONDUIT PAY ITEMS.
 8. ALL CONDUIT ATTACHED TO STRUCTURE SHALL BE PVC COATED RIGID STEEL CONDUIT (PVCC RGC) TYPICAL.
 9. 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



| | | |
|----------------------------|------------|--------------------|
| USER NAME = ggp/mbpt | DESIGNED - | REVISED - 12-12-05 |
| PLLOT SCALE = 1/8" = 1'-0" | DRAWN - | REVISED - |
| PLLOT DATE = 1/15/2020 | CHECKED - | REVISED - |
| | DATE - | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUSPENDED MOUNT LED UNDERPASS
LUMINAIRE INSTALLATION DETAILS**

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 - HP | REVISED - |
| PLLOT SCALE = | DRAWN - MPK | REVISED - |
| PLLOT DATE = 7/1/2022 | CHECKED - RAS | REVISED - |
| | DATE - 06/25/2021 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE
ELECTRICAL DETAILS**

SCALE: NTS SHEET OF SHEETS STA. TO STA.

| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|------------|--------------------|--------------|-----------|
| 94 | 2020-235-L | COOK | 148 | 141 |
| | | CONTRACT NO. 62N04 | | |
| ILLINOIS FED. AID PROJECT | | | | |

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LT-92



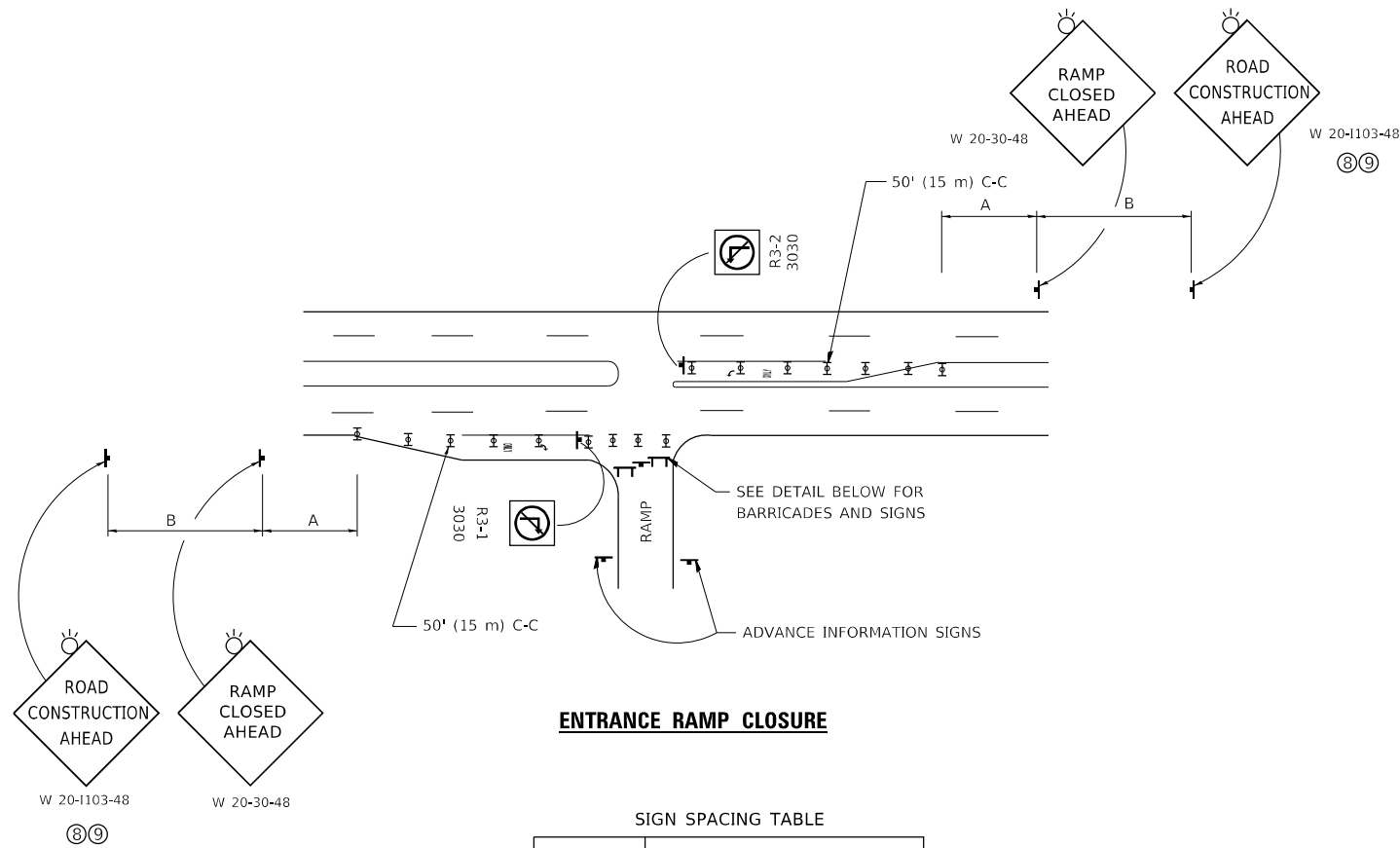
| | | |
|-----------------------|-------------------|-----------|
| USER NAME = korabmp | DESIGNED - HP | REVISED - |
| | DRAWN - MPK | REVISED - |
| PLOT SCALE = | CHECKED - RAS | REVISED - |
| PLOT DATE = 8/12/2022 | DATE - 06/25/2021 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE
ELECTRICAL DETAILS**

SCALE: NTS SHEET OF SHEETS STA. TO STA.

| F.A.I RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|------------|--------|-----------------|--------------|
| 94 | 2020-235-L | COOK | 148 | 142 |
| CONTRACT NO. 62N04 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

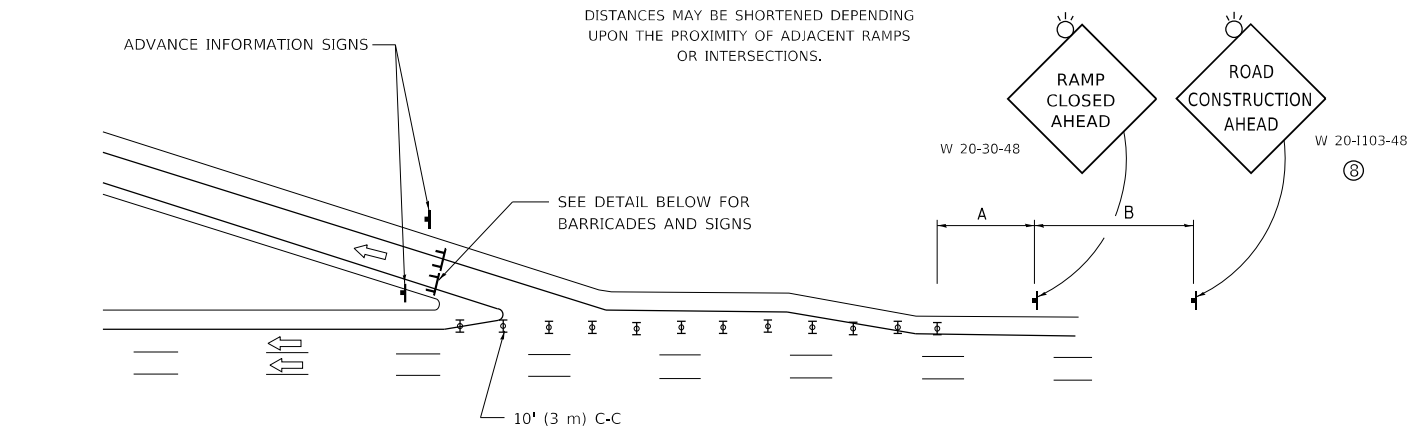


ENTRANCE RAMP CLOSURE

SIGN SPACING TABLE

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

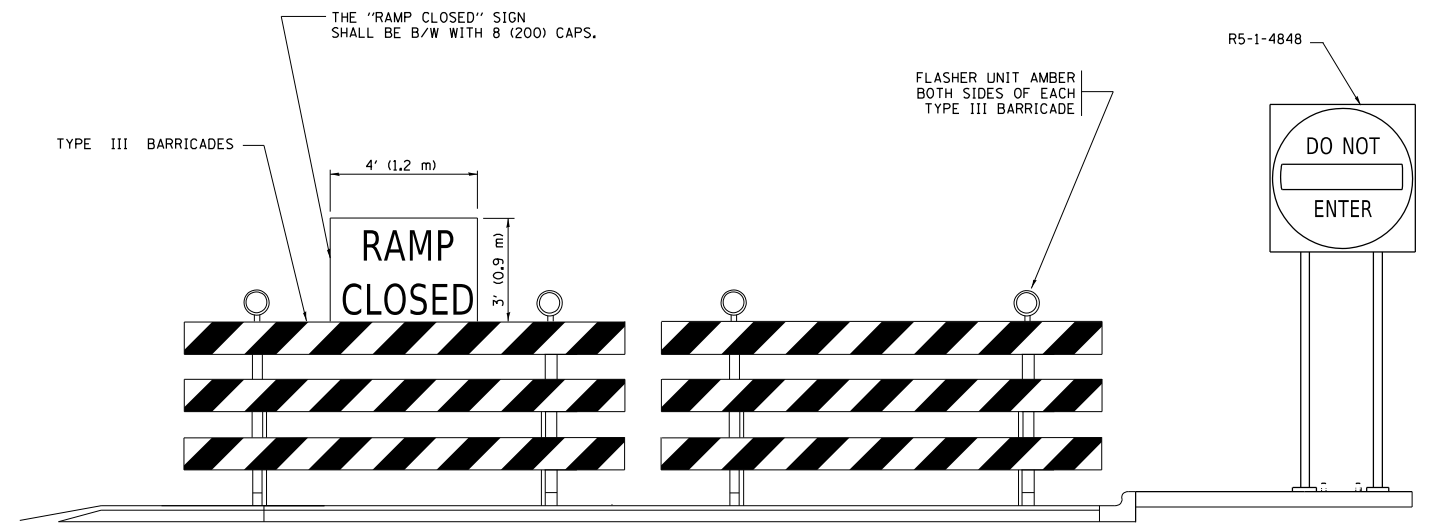
DISTANCES MAY BE SHORTENED DEPENDING UPON THE PROXIMITY OF ADJACENT RAMPS OR INTERSECTIONS.



EXIT RAMP CLOSURE

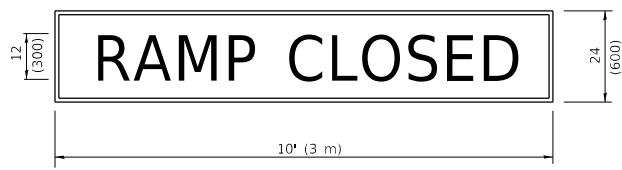
SYMBOLS

- ☐ TYPE II BARRICADE OR DRUM
- ☐ TYPE III BARRICADE WITH 2 FLASHING LIGHTS



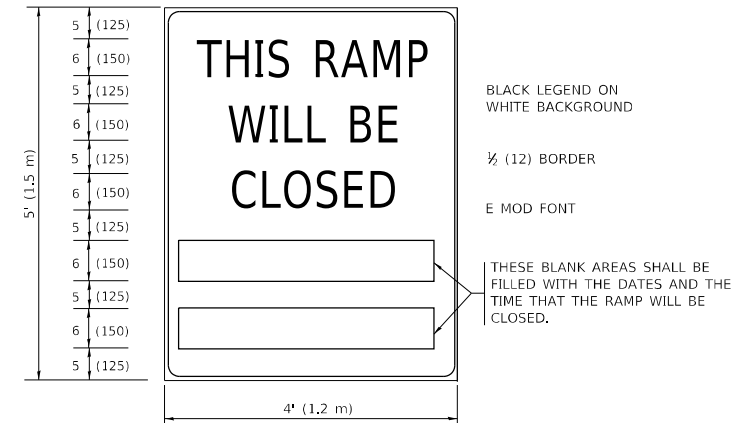
DETAIL FOR REQUIRED BARRICADES & SIGNS

RAMP CLOSURE ADVANCE WARNING SIGN



BLACK LEGEND ON ORANGE BACKGROUND MOUNTED DIAGONALLY E MOD FONT 1 (25) BORDER
 THESE SIGNS ARE REQUIRED ON ALL THE EXIT GUIDE SIGNS FOR EXIT RAMPS THAT WILL BE CLOSED FOR MORE THAN FOUR (4) CONSECUTIVE DAYS.

RAMP CLOSURE ADVANCE INFORMATION SIGN



THESE SIGNS ARE REQUIRED ON BOTH SIDES OF THE RAMP, MINIMUM OF 1 WEEK IN ADVANCE OF THE CLOSURE.
 THESE SIGNS SHALL BE FABRICATED AND PAID FOR ACCORDING TO THE TEMPORARY INFORMATION SIGNING SPECIAL PROVISION

GENERAL NOTES:

- ① CONES MAY BE SUBSTITUTED FOR DRUMS OR TYPE II BARRICADES DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (700) HIGH.
- ② VERTICAL BARRICADES SHALL NOT BE USED FOR RAMP CLOSURES.
- ③ A FLAGGER SHALL BE POSITIONED AT EACH CLOSED RAMP THAT IS OPEN TO CONSTRUCTION VEHICLES, PRECEDED BY A W20-7 FLAGGER WARNING SIGN.
- ④ ALL ROUTE MARKERS AND TRAILBLAZER ASSEMBLIES WHICH DIRECT MOTORISTS TO A CLOSED ENTRANCE RAMP SHALL BE COVERED WHEN THE RAMP IS CLOSED FOR MORE THAN FOUR (4) DAYS.
- ⑤ THE SIGNING AND BARRICADING WHICH IS REQUIRED BY THIS DETAIL SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS).
- ⑥ AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL RAMP CLOSURES.
- ⑦ THE RAMP CLOSURE ADVANCE INFORMATION SIGNS SHALL BE ERECTED IF THE CLOSURE TIME EXCEEDS TWENTY-FOUR (24) HOURS. ADDITIONAL ADVANCE WARNING SIGNS ON EXIT GUIDE SIGNING WILL BE REQUIRED FOR EXIT RAMP CLOSURES THAT EXCEED FOUR (4) DAYS IN LENGTH
- ⑧ ROAD CONSTRUCTION AHEAD SIGNS MAY BE OMITTED WHEN THIS DETAIL IS USED IN CONJUNCTION WITH OTHER TRAFFIC CONTROL THAT ALREADY INCLUDES A ROAD CONSTRUCTION AHEAD SIGN.
- ⑨ ARTERIAL ROAD CONSTRUCTION AHEAD SIGNS SHALL BE INSTALLED ON THE LEFT SIDE OF TRAFFIC IF THE MEDIAN IS MORE THAN 10 FT WIDE.

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

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| PLOT SCALE = 50.0000 ' / in. | DRAWN - | REVISED - S.P.B._12-09 |
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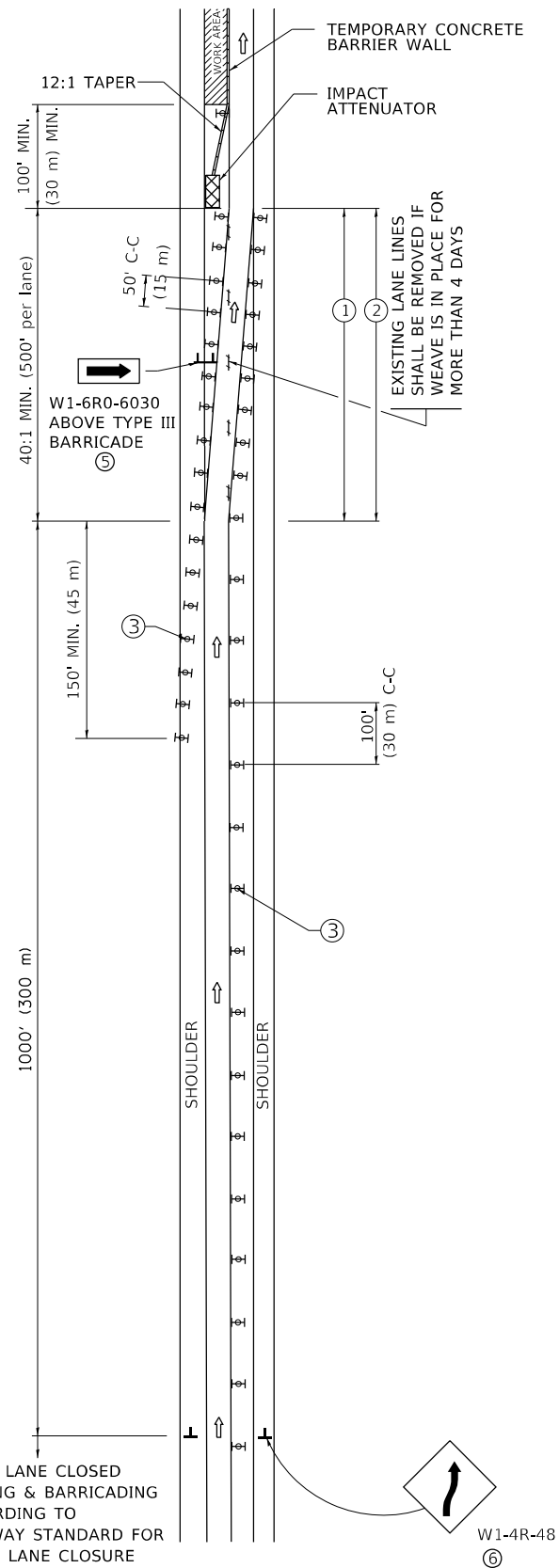
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

ENTRANCE_AND_EXIT_RAMP CLOSURE_DETAILS

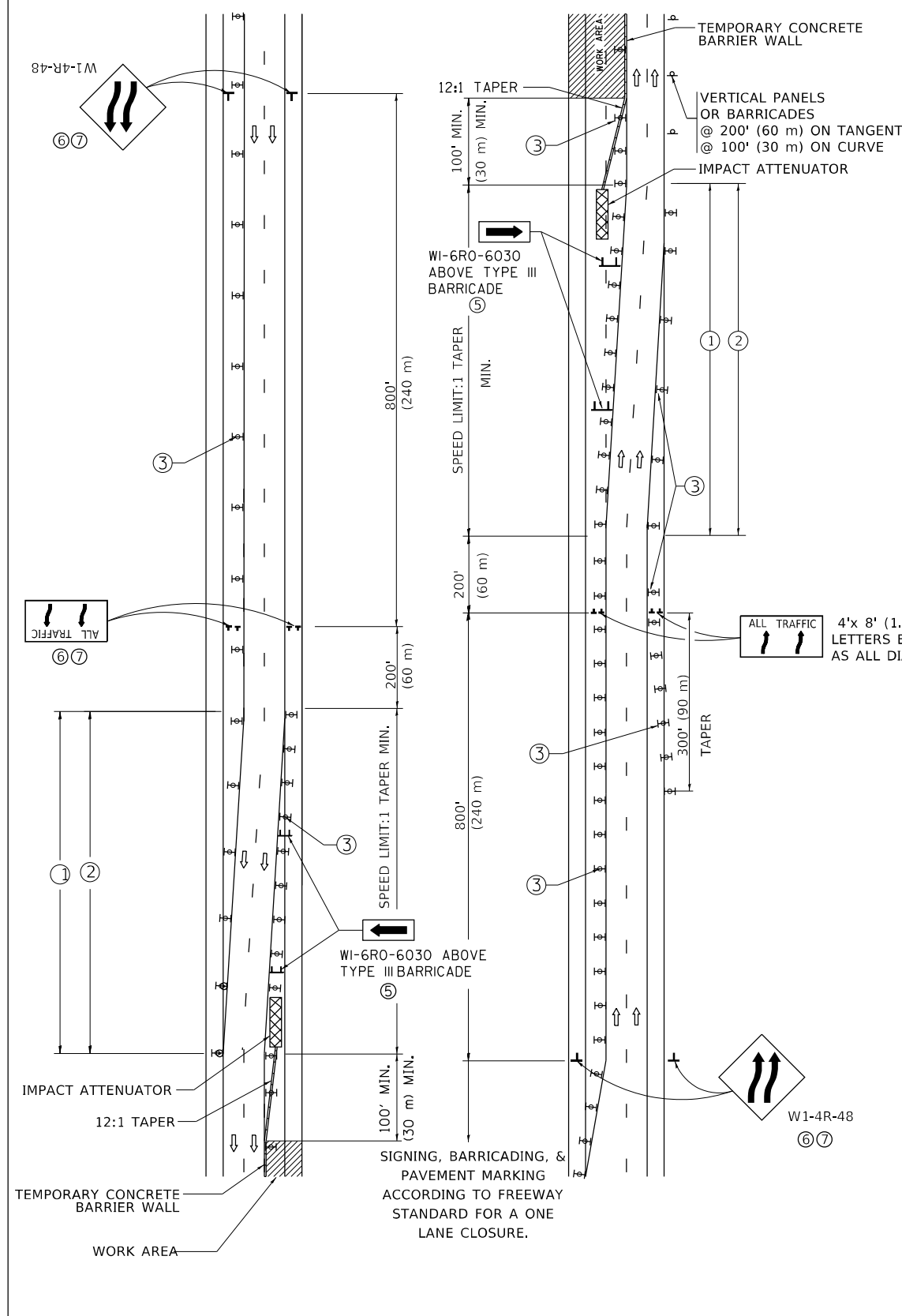
SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

| | | | | |
|-----------|-----------|--------------------|--------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 94 | 2020-35-L | COOK | 148 | 143 |
| TC-08 | | CONTRACT NO. 62N04 | | |
| ILLINOIS | | FED. AID PROJECT | | |

SINGLE LANE WEAVE



MULTI-LANE WEAVE



GENERAL NOTES:

- ① EXISTING CONFLICTING PAVEMENT MARKING LINES SHALL BE REMOVED. PAVEMENT MARKING REMOVAL SHALL NOT BE REQUIRED FOR SINGLE LANE WEAVES UNDER 4 DAYS IN DURATION.
- ② CONTINUOUS REFLECTIVE TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER AND FOR 300' (90 m) ALONG SIDE THE WORK AREA WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS. THE LEFT EDGE LINE SHALL BE YELLOW AND THE RIGHT EDGE LINE SHALL BE WHITE. FOR MULTI-LANE WEAVES LANE LINES SHALL BE 5 INCH, 10'-30' (3 m-9 m) SKIP DASH, WHITE.
- ③ PLASTIC DRUMS WITH STEADY BURN LIGHTS AT 50' (15 m) C-C SPACING IN TAPERS AND 100' (30 m) C-C SPACING IN TANGENTS.
- ④ ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
- ⑤ TYPE III BARRICADES MAY BE OMITTED FOR SINGLE-LANE WEAVES UNDER 24-HOURS IN DURATION. W1-6 SIGNS WILL STILL BE REQUIRED. IF THE WIDTH OF OFFSET IS LESS THAN 6' THEN THE TYPE III BARRICADE WITH ATTACHED ARROW SIGN PANEL CAN BE ELIMINATED IN THE TAPER AREAS.
- ⑥ WHEN THE LENGTH OF THE SHIFTED SEGMENT (DISTANCE BETWEEN WEAVE POINTS) IS LESS THAN 1500', DOUBLE REVERSE CURVE SIGNS (W24-1) SHOULD BE USED INSTEAD OF THE REVERSE CURVE (W1-4) SIGNS. ARROWS ON THE 4'X8' "ALL TRAFFIC" SIGNS SHALL BE THE SAME SHAPE.
- ⑦ THE NUMBER OF ARROWS ON THESE SIGNS SHALL MATCH THE NUMBER OF LANES OPEN TO TRAFFIC.

SYMBOLS

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

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

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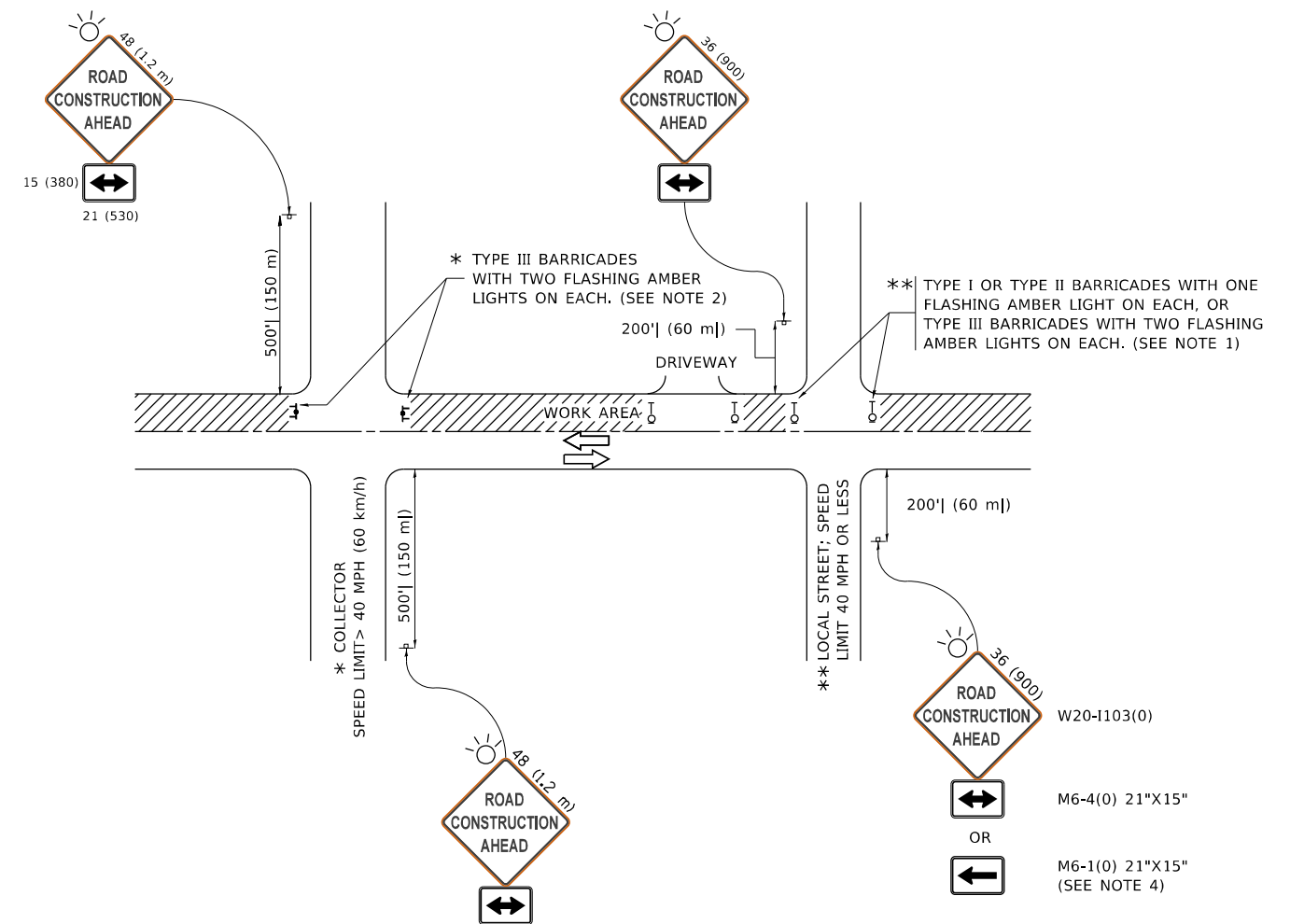
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| PLOT SCALE = 50,0000 ' / in. | CHECKED - | REVISED - S.P.B. 12-09 |
| PLOT DATE = 3/4/2019 | DATE - 02-87 | REVISED - M.D. 06-13 |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL DETAILS FOR
FREEWAY SINGLE & MULTI-LANE WEAVE**

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

| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|-----------|--------------------|--------------|-----------|
| 94 | 2020-35-L | COOK | 148 | 144 |
| TC-09 | | CONTRACT NO. 62N04 | | |
| ILLINOIS FED. AID PROJECT | | | | |



NOTES:

- SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
- SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
 - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
- CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
- SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
- WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
- ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
- THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

All dimensions are in inches (millimeters) unless otherwise shown.

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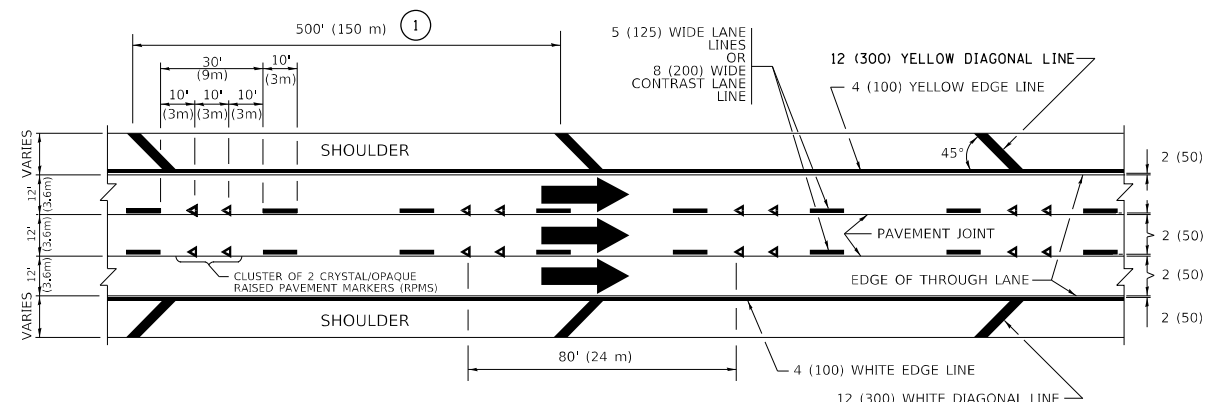
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| PLOT DATE = 3/4/2019 | DATE - 06-89 | REVISED - A. SCHUETZE 07-01-13 |
| | | REVISED - A. SCHUETZE 09-15-16 |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL AND PROTECTION FOR
SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS**

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

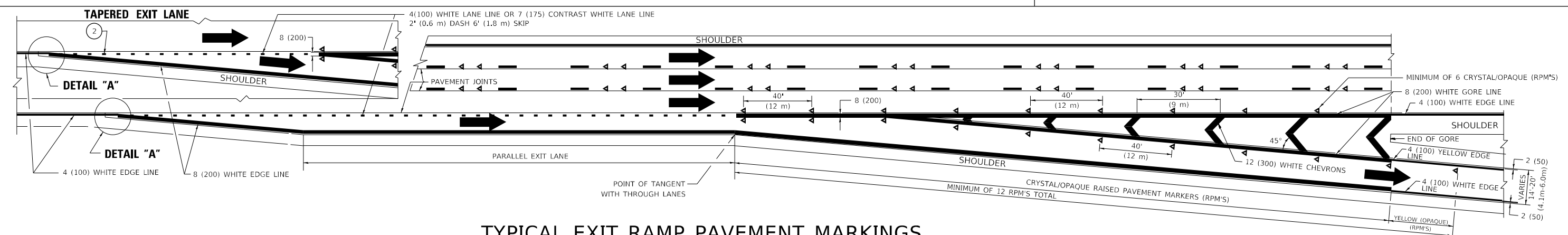
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|-----------|--------|--------------------|-----------|
| 94 | 2020-35-L | COOK | 148 | 145 |
| TC-10 | | | CONTRACT NO. 62N04 | |
| ILLINOIS FED. AID PROJECT | | | | |



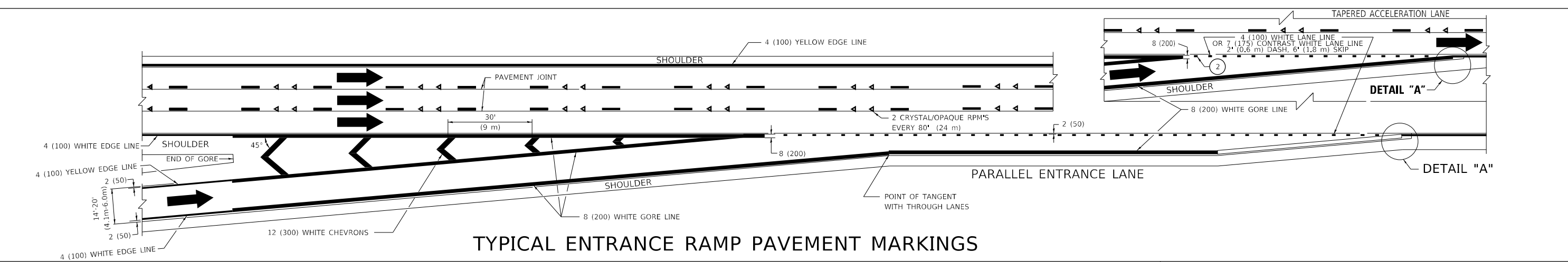
TYPICAL EDGE LINES & LANE LINES

PAVEMENT MARKING MATERIALS

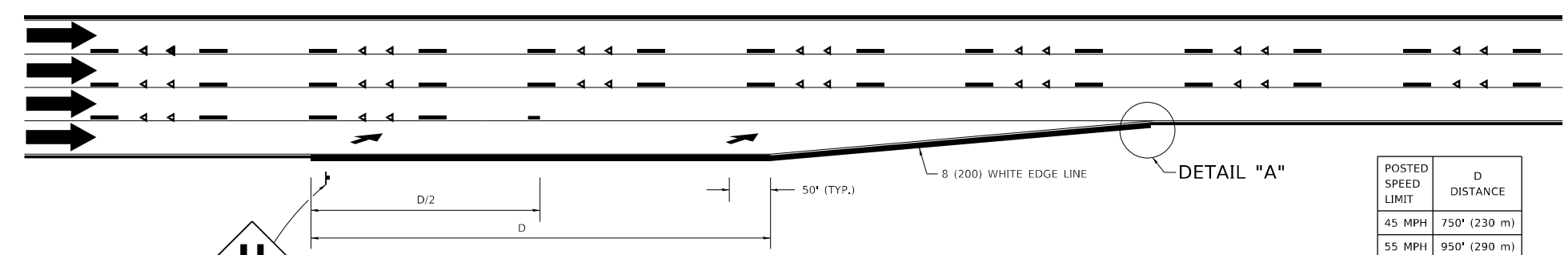
1. THERMOPLASTIC PAVEMENT MARKING LINE SHALL BE USED FOR ALL EDGE LINES, GORE LINES, AND DIAGONAL LINES ON HMA PAVEMENTS.
2. POLYUREA OR MODIFIED URETHANE PAVEMENT MARKING LINE SHALL BE USED FOR ALL EDGE LINES, GORE LINES, AND DIAGONAL LINES ON PCC PAVEMENTS.
3. PREFORMED PLASTIC PAVEMENT MARKING LINE TYPE B, INLAID OR GROOVE IN, SHALL BE USED FOR ALL LANE LINES ON HMA PAVEMENTS.
4. CONTRAST PREFORMED PLASTIC PAVEMENT MARKING LINE TYPE B, GROOVE IN, SHALL BE USED FOR ALL LANE LINES ON PCC PAVEMENT.



TYPICAL EXIT RAMP PAVEMENT MARKINGS

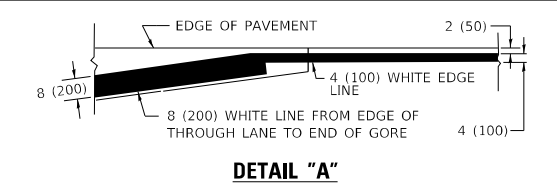


TYPICAL ENTRANCE RAMP PAVEMENT MARKINGS



LANE REDUCTION PAVEMENT MARKINGS

| POSTED SPEED LIMIT | D DISTANCE |
|--------------------|---------------|
| 45 MPH | 750' (230 m) |
| 55 MPH | 950' (290 m) |
| 65 MPH | 1200' (365 m) |



NOTES:

- ① THE DIAGONAL LINES SHALL BE SPACED AT 40' (12 m) C-C ACROSS ALL STRUCTURES WHICH ARE 500' (150 m) OR LESS IN LENGTH. THE DIAGONAL LINES ARE NOT REQUIRED ON SHOULDERS WHICH ARE 6' (1.8 m) OR LESS IN WIDTH.
- ② 4" (2' DASH, 6' SKIP) MARKING ON TAPERED ENTRANCE AND EXIT RAMP SHALL BE OMITTED ON TANGENT SECTIONS.

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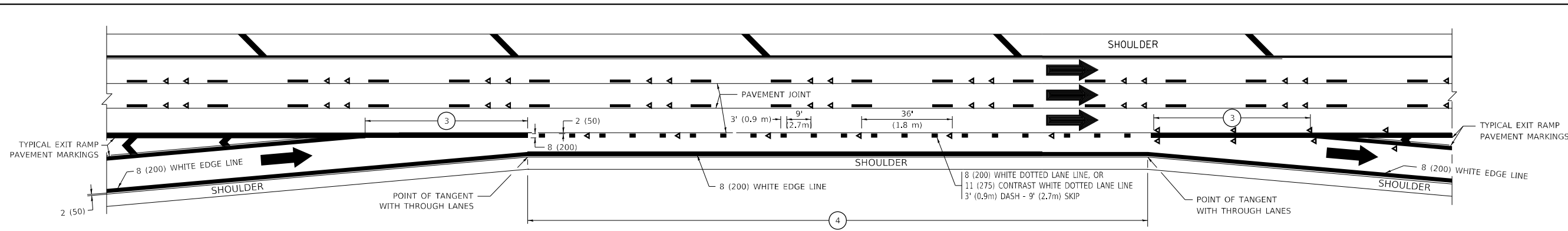
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| PLOT DATE = 3/4/2019 | CHECKED - | REVISED - M.D. 05-13 |
| | DATE - 01-90 | REVISED - M.D. 09-17 |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

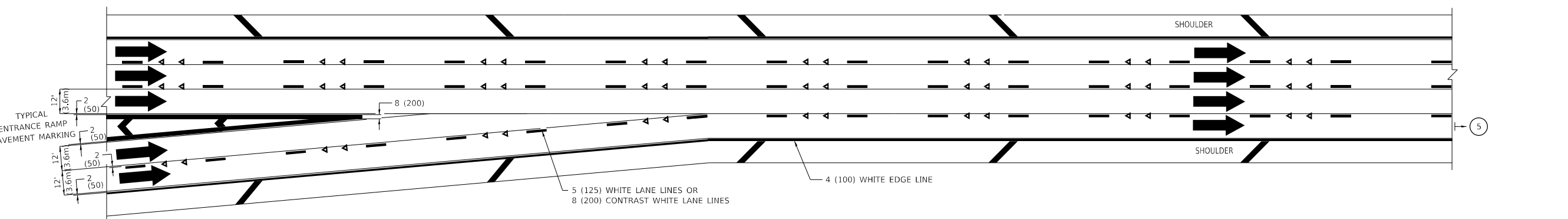
**MULTI-LANE FREEWAY
PAVEMENT MARKING DETAILS**

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

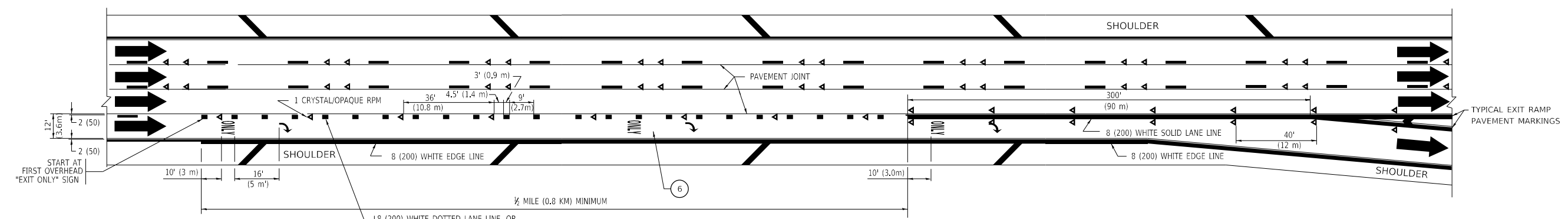
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|-----------|--------|--------------------|-----------|
| 94 | 2020-35-L | COOK | 148 | 146 |
| TC-12 | | | CONTRACT NO. 62N04 | |
| ILLINOIS FED. AID PROJECT | | | | |



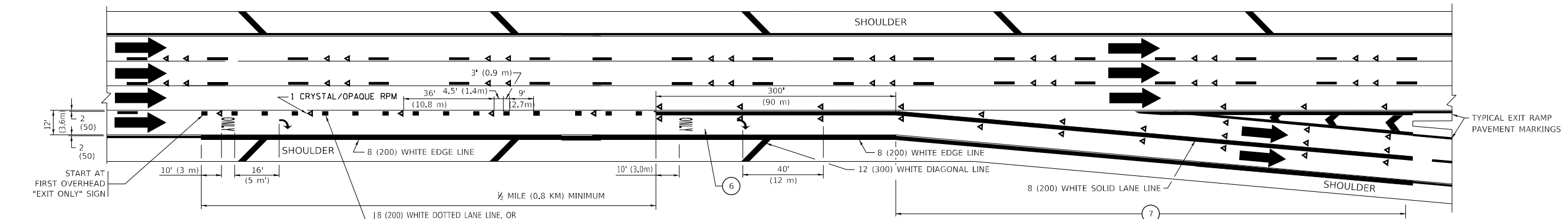
AUXILIARY LANE MARKINGS



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.

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| USER NAME = footem | DESIGNED - D.W.S. | REVISED - J.A.F. 02-06 |
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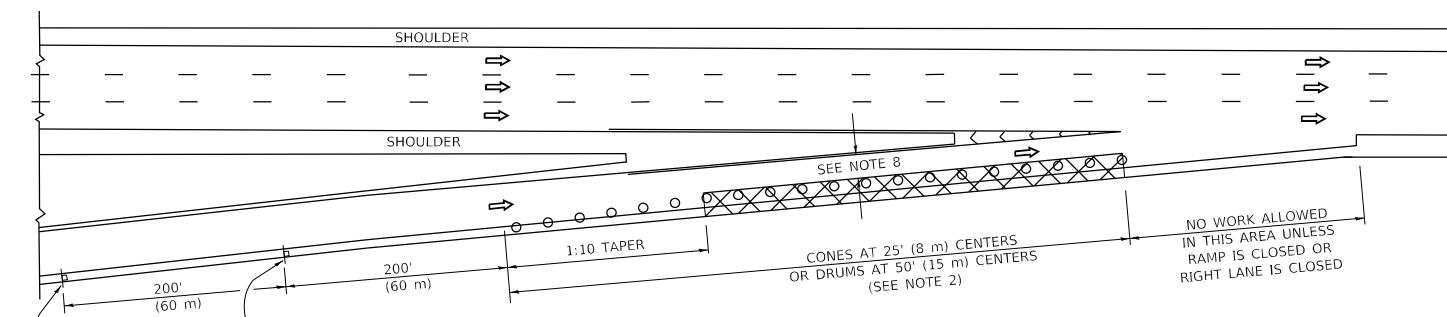
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MULTI-LANE FREEWAY
PAVEMENT MARKING DETAILS**

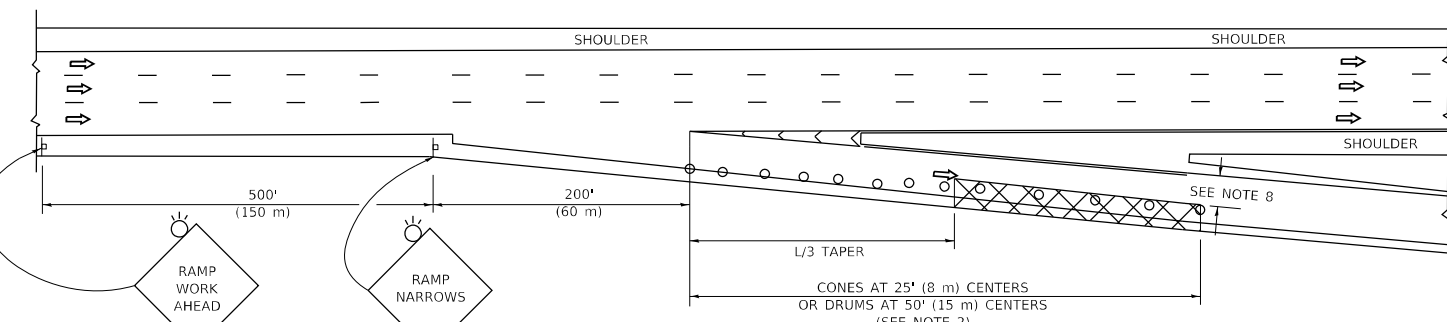
SCALE: NONE SHEET 1 OF 2 SHEETS STA. TO STA.

| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------|-----------|---------------------------|--------------|-----------|
| 94 | 2020-35-L | COOK | 148 | 147 |
| TC-12 | | CONTRACT NO. 62N04 | | |
| | | ILLINOIS FED. AID PROJECT | | |

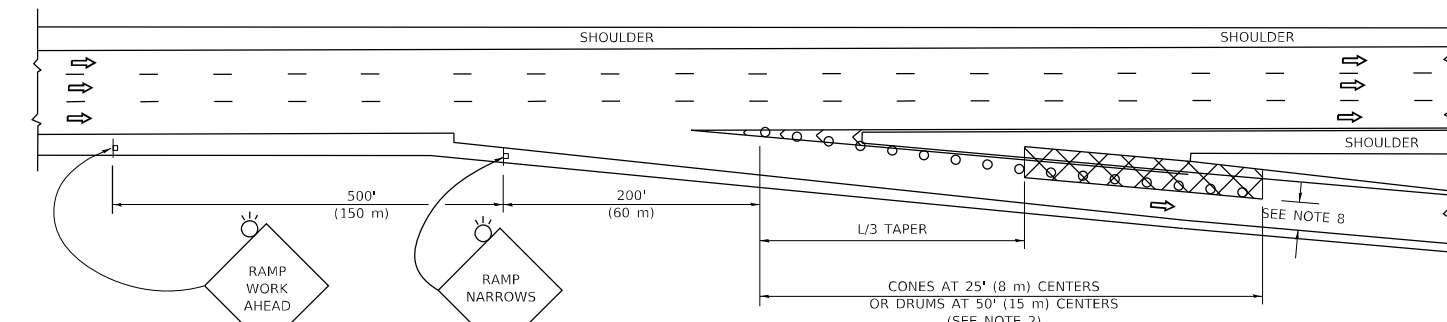
PARTIAL RAMP CLOSURE DETAILS



TYPICAL ENTRANCE RAMP



TYPICAL EXIT RAMP



TYPICAL EXIT RAMP

SYMBOLS

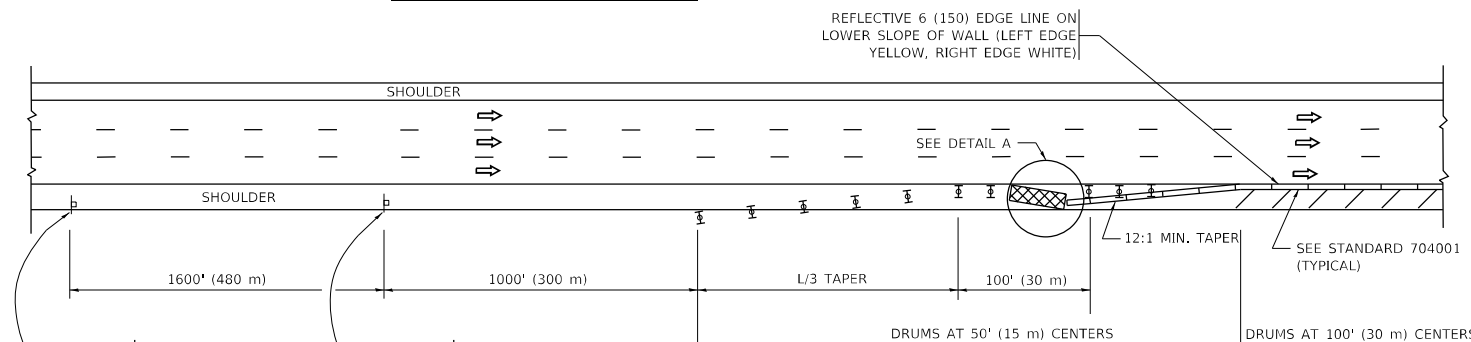
- ACTIVE WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- TYPE II BARRICADE OR DRUM
- CONE, DRUM OR BARRICADE
- IMPACT ATTENUATOR OF TYPE AND TEST LEVEL SPECIFIED

GENERAL NOTES:

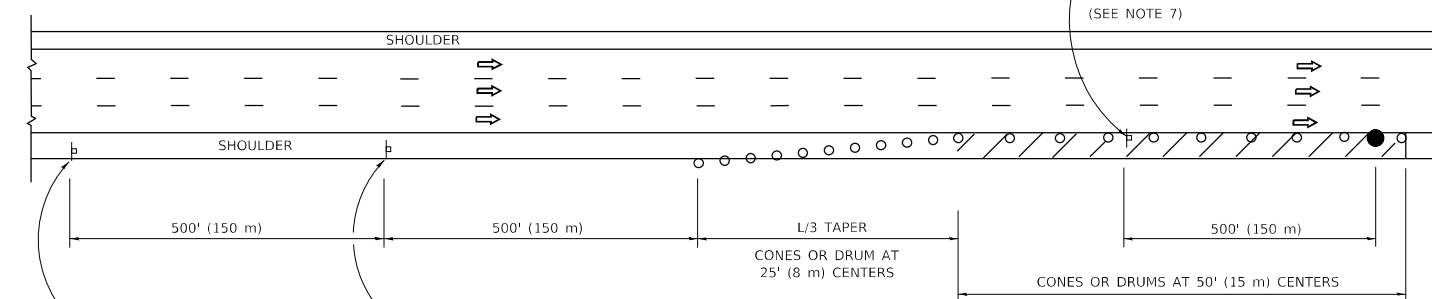
1. THE "L" DISTANCE EQUALS:

| | |
|--------------------------------------|---------------------|
| SPEED LIMIT | FORMULAS |
| 45 mph (80 km/h) | METRIC ENGLISH |
| OR GREATER: | L=0.65(WXS) L=(W)XS |
| W = WIDTH OF OFFSET IN FEET (METERS) | |
| S = NORMAL POSTED SPEED MPH (KM/H) | |
2. 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.
3. ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
4. FLASHING LIGHTS SHALL BE USED DURING THE HOURS OF DARKNESS AND SHALL BE INSTALLED ABOVE THE FIRST TWO SETS OF SIGNS.

SHOULDER CLOSURE DETAILS



PERMANENT SHOULDER CLOSURE



DAYTIME SHOULDER CLOSURE

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



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

5. THE IMPACT ATTENUATOR, TEMPORARY IS NOT REQUIRED WHEN THE TEMPORARY CONCRETE BARRIER WALL IS PROTECTED BY OR IS TIED INTO THE EXISTING GUARDRAIL. IF OFFSET IS LESS THAN 5 FEET USE NARROW USE TYPE DEVICE TO MEET NCHRP350/MASH.
6. AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL FREEWAY CLOSURES.
7. THE FLAGGER AND FLAGGER SIGN ARE REQUIRED AT THE ABOVE WORK SITES WHEN:
 - a. FOUR OR MORE WORK VEHICLES ENTER THE TRAFFIC LANES IN A ONE HOUR PERIOD.
 - b. THE WORK AVTIVITY REQUIRES FREQUENT ENCR OACHMENT INTO THE LANE OPEN TO TRAFFIC.
 THE FLAGGER SHALL BE STATIONED APPROXIMATELY 100' (30 m) TO 200' (60 m) IN ADVANCE OF THE WORKERS.
8. 12' MIN. WIDTH TANGENT SECTION
16' MIN. WIDTH CURVE SECTION.

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

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| | DRAWN - D.W.S. | REVISED - S.P.B. 12-09 |
| PLOT SCALE = 50.0000 ' / in. | CHECKED - | REVISED - M.D. 06-13 |
| PLOT DATE = 3/4/2019 | DATE - 11-96 | REVISED - M.D. 01-18 |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL DETAILS FOR FREEWAY
SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES

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

| | | | | |
|---------------------------|-----------|--------------------|--------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 94 | 2020-35-L | COOK | 148 | 148 |
| TC-17 | | CONTRACT NO. 62N04 | | |
| ILLINOIS FED. AID PROJECT | | | | |