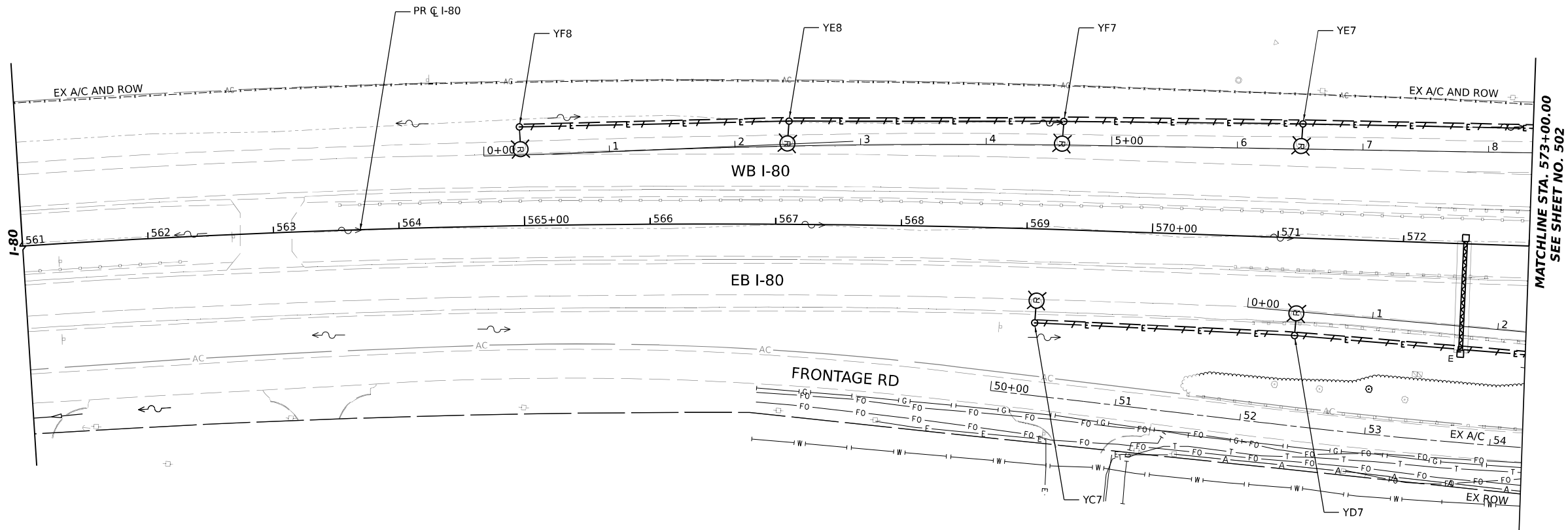
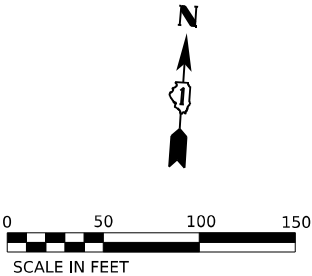


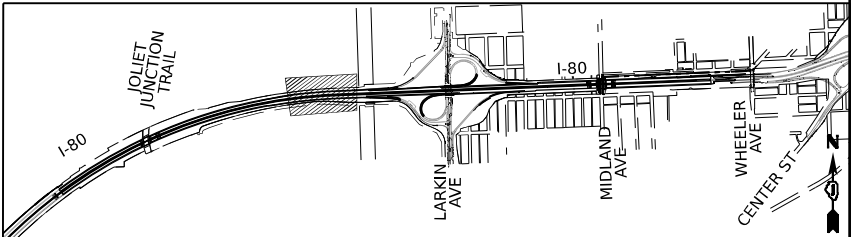
NOTES:

1. REMOVE EQUIPMENT THAT ARE CALLED OUT FOR REMOVAL ONLY. REMOVE EQUIPMENT BEFORE THE START OF THE CONSTRUCTION ACTIVITIES AROUND THE LIGHT POLES. DON'T DISCONNECT OR REMOVE ANY LIGHTING EQUIPMENT UNLESS A REPLACEMENT (TEMPORARY OR PERMANENT) LIGHTING EQUIPMENT HAS BEEN INSTALLED AND MADE OPERATIONAL.
2. COORDINATE ALL EXISTING LIGHTING EQUIPMENT REMOVAL WITH THE CONSTRUCTION STAGING AND OTHER WORK.
3. DE-ENERGIZE EXISTING LIGHTING CIRCUITS AND POLES AT THE ELECTRICAL DISTRIBUTION PANELBOARD IN THE LIGHTING CABINET BEFORE DISCONNECTING AND REMOVING THE EQUIPMENT.
4. REMOVE EXISTING WIRE AND CONDUIT SHOWN TO BE REMOVED AND DISPOSE OF IT OUTSIDE THE PROJECT LIMITS UNLESS OTHERWISE SPECIFIED. CONDUITS THAT WILL NOT BE USED CAN ALSO BE ABANDONED IN PLACE. CONTRACTOR MAY CHOOSE TO REMOVE WIRES FROM ABANDONED CONDUIT AT THEIR OWN EXPENSE.
5. RETURN ALL SALVAGEABLE LIGHTING EQUIPMENT TO IDOT. PROPERLY PACKAGE AND TRANSPORT REMOVED EQUIPMENT TO THE IDOT DESIGNATED YARD OR STORAGE FACILITY.
6. DISPOSE OF REMOVED EXISTING LAMPS, BALLASTS AND OTHER MATERIALS THAT WILL NOT BE SALVAGED IN ACCORDANCE WITH IDOT REQUIREMENTS AND ABIDE BY ALL RECYCLING AND SAFE DISPOSAL REGULATIONS.
7. VERIFY ROUTING OF EXISTING CIRCUIT CONDUCTORS AND MAKE ANY NECESSARY ADJUSTMENTS TO KEEP THE EXISTING POLES OPERATIONAL AS INDICATED. THIS WORK IS COVERED UNDER MAINTAIN LIGHTING SYSTEM PAY ITEM. NO SEPARATE PAYMENT WILL BE MADE FOR MATERIALS OR LABOR.
8. COMPLETELY REMOVE ENTIRE LIGHTING UNIT FROM FOUNDATION. SALVAGE LIGHTING UNIT AND DELIVER TO IDOT YARD OR FACILITY. COMPLETELY REMOVE POLE FOUNDATION PER IDOT STANDARDS.
9. SEE PROPOSED LIGHTING PLANS FOR OTHER INFORMATION AND INCORPORATION OF EXISTING AND RELOCATED LIGHT POLES AND EQUIPMENT INTO THE FINAL PROPOSED LIGHTING SYSTEM.



MATCHLINE STA. 573+00.00  
SEE SHEET NO. 502

KEY PLAN



USER NAME	= myersc	DESIGNED	- TJL	REVISED	-
		DRAWN	- CAM	REVISED	-
PLOT SCALE	= 100,000' / in.	CHECKED	- MAE	REVISED	-
PLOT DATE	= 10/5/2023	DATE	- 10/6/23	REVISED	-

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

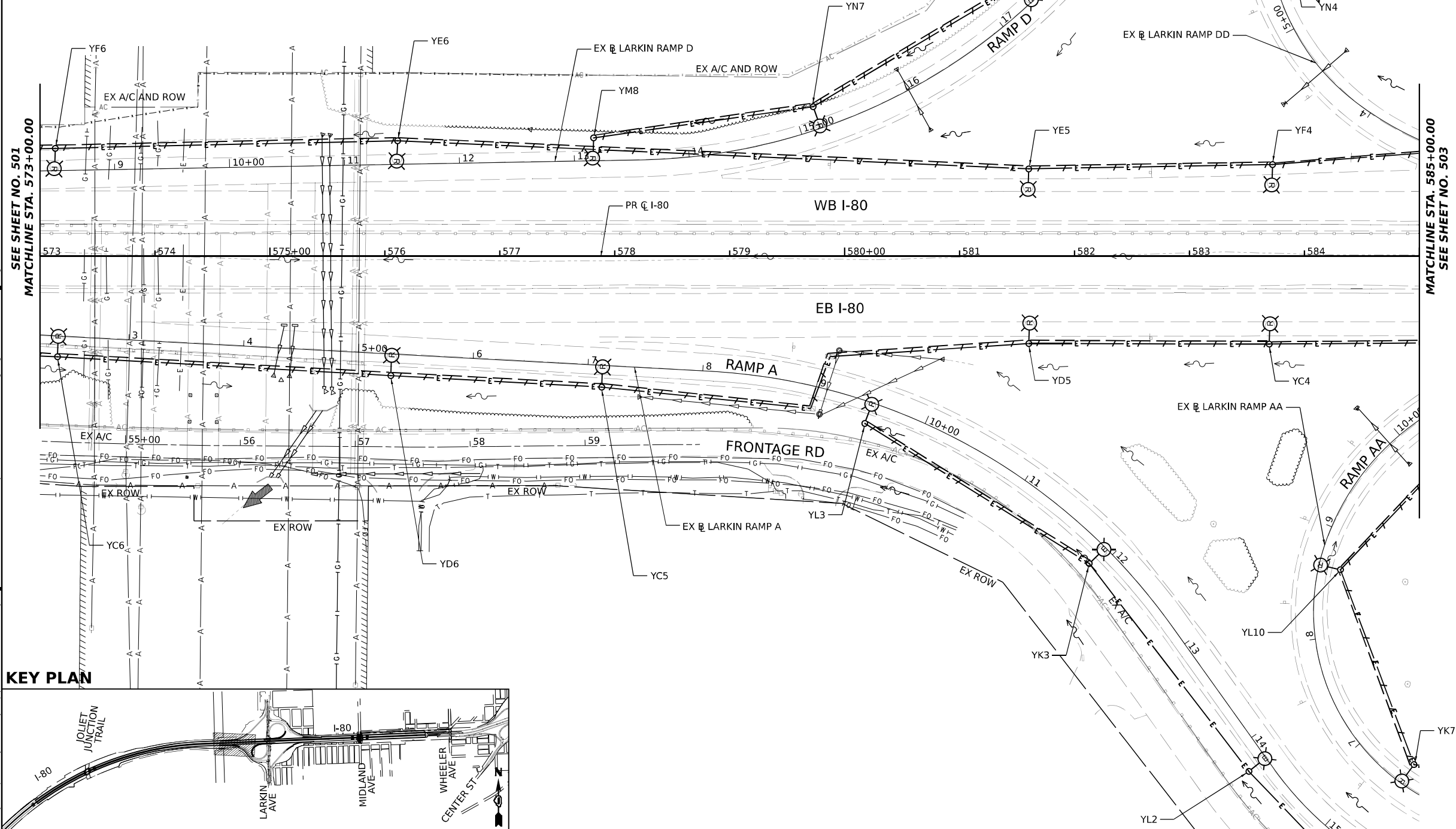
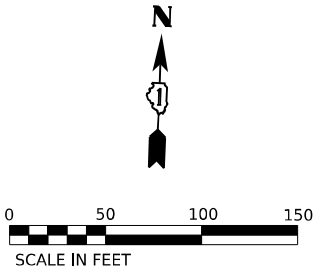
EXISTING LIGHTING REMOVAL PLANS

SCALE: 1"=50'      SHEET 3 OF 51 SHEETS      STA. 561+00      TO STA. 573+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 22 BR	WILL	1201	501
CONTRACT NO. 62R89				
ILLINOIS FED. AID PROJECT				

NOTES:

1. REMOVE EQUIPMENT THAT ARE CALLED OUT FOR REMOVAL ONLY. REMOVE EQUIPMENT BEFORE THE START OF THE CONSTRUCTION ACTIVITIES AROUND THE LIGHT POLES. DON'T DISCONNECT OR REMOVE ANY LIGHTING EQUIPMENT UNLESS A REPLACEMENT (TEMPORARY OR PERMANENT) LIGHTING EQUIPMENT HAS BEEN INSTALLED AND MADE OPERATIONAL.
2. COORDINATE ALL EXISTING LIGHTING EQUIPMENT REMOVAL WITH THE CONSTRUCTION STAGING AND OTHER WORK.
3. DE-ENERGIZE EXISTING LIGHTING CIRCUITS AND POLES AT THE ELECTRICAL DISTRIBUTION PANELBOARD IN THE LIGHTING CABINET BEFORE DISCONNECTING AND REMOVING THE EQUIPMENT.
4. REMOVE EXISTING WIRE AND CONDUIT SHOWN TO BE REMOVED AND DISPOSE OF IT OUTSIDE THE PROJECT LIMITS UNLESS OTHERWISE SPECIFIED. CONDUITS THAT WILL NOT BE USED CAN ALSO BE ABANDONED IN PLACE. CONTRACTOR MAY CHOOSE TO REMOVE WIRES FROM ABANDONED CONDUIT AT THEIR OWN EXPENSE.
5. RETURN ALL SALVAGEABLE LIGHTING EQUIPMENT TO IDOT. PROPERLY PACKAGE AND TRANSPORT REMOVED EQUIPMENT TO THE IDOT DESIGNATED YARD OR STORAGE FACILITY.
6. DISPOSE OF REMOVED EXISTING LAMPS, BALLASTS AND OTHER MATERIALS THAT WILL NOT BE SALVAGED IN ACCORDANCE WITH IDOT REQUIREMENTS AND ABIDE BY ALL RECYCLING AND SAFE DISPOSAL REGULATIONS.
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8. COMPLETELY REMOVE ENTIRE LIGHTING UNIT FROM FOUNDATION. SALVAGE LIGHTING UNIT AND DELIVER TO IDOT YARD OR FACILITY. COMPLETELY REMOVE POLE FOUNDATION PER IDOT STANDARDS.
9. SEE PROPOSED LIGHTING PLANS FOR OTHER INFORMATION AND INCORPORATION OF EXISTING AND RELOCATED LIGHT POLES AND EQUIPMENT INTO THE FINAL PROPOSED LIGHTING SYSTEM.



KEY PLAN



USER NAME	= myersc
DESIGNED	- TJL
DRAWN	- CAM
CHECKED	- MAE
DATE	- 10/6/23
PLOT SCALE	= 100,000' / in.
PLOT DATE	= 10/5/2023

REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

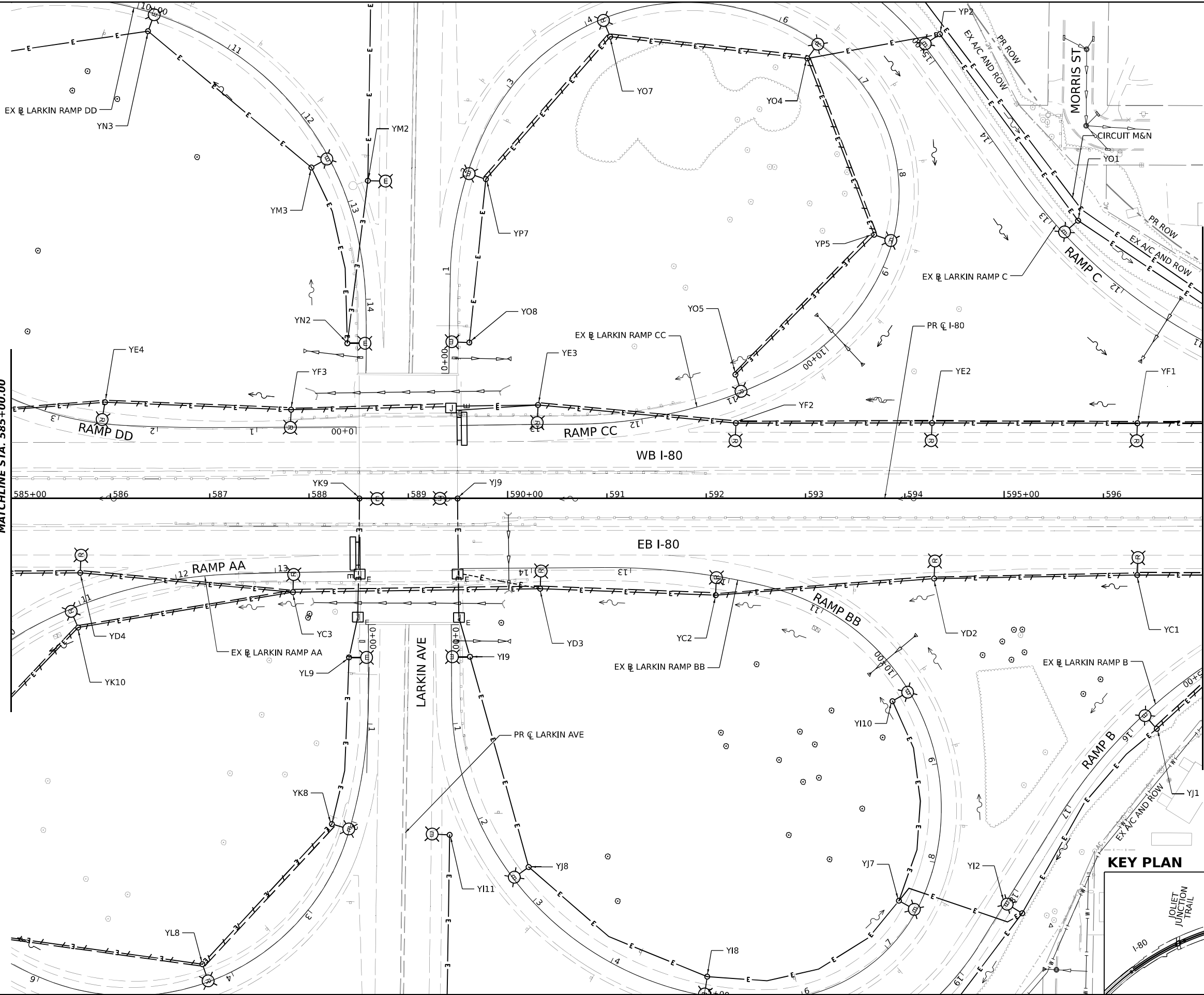
EXISTING LIGHTING REMOVAL PLANS

SCALE: 1"=50'    SHEET 4 OF 51 SHEETS    STA. 573+00 TO STA. 585+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 22 BR	WILL	1201	502
CONTRACT NO. 62R89				
ILLINOIS FED. AID PROJECT				

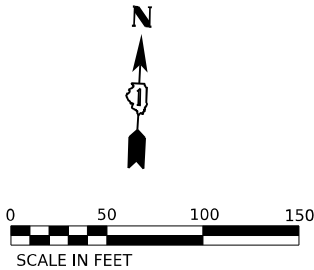


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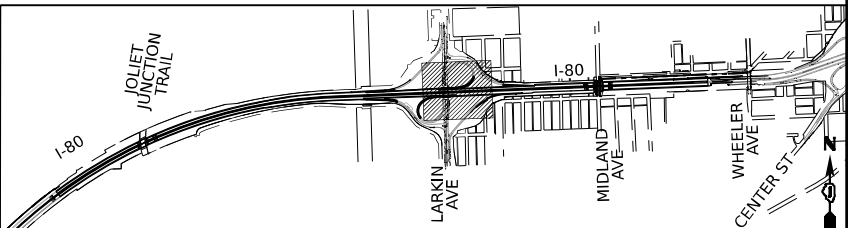


NOTES:

1. REMOVE EQUIPMENT THAT ARE CALLED OUT FOR REMOVAL ONLY. REMOVE EQUIPMENT BEFORE THE START OF THE CONSTRUCTION ACTIVITIES AROUND THE LIGHT POLES. DON'T DISCONNECT OR REMOVE ANY LIGHTING EQUIPMENT UNLESS A REPLACEMENT (TEMPORARY OR PERMANENT) LIGHTING EQUIPMENT HAS BEEN INSTALLED AND MADE OPERATIONAL.
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9. SEE PROPOSED LIGHTING PLANS FOR OTHER INFORMATION AND INCORPORATION OF EXISTING AND RELOCATED LIGHT POLES AND EQUIPMENT INTO THE FINAL PROPOSED LIGHTING SYSTEM.



KEY PLAN



USER NAME = myersc	DESIGNED - TJL	REVISED -
	DRAWN - CAM	REVISED -
PLOT SCALE = 100,000' / in.	CHECKED - MAE	REVISED -
PLOT DATE = 10/5/2023	DATE - 10/6/23	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

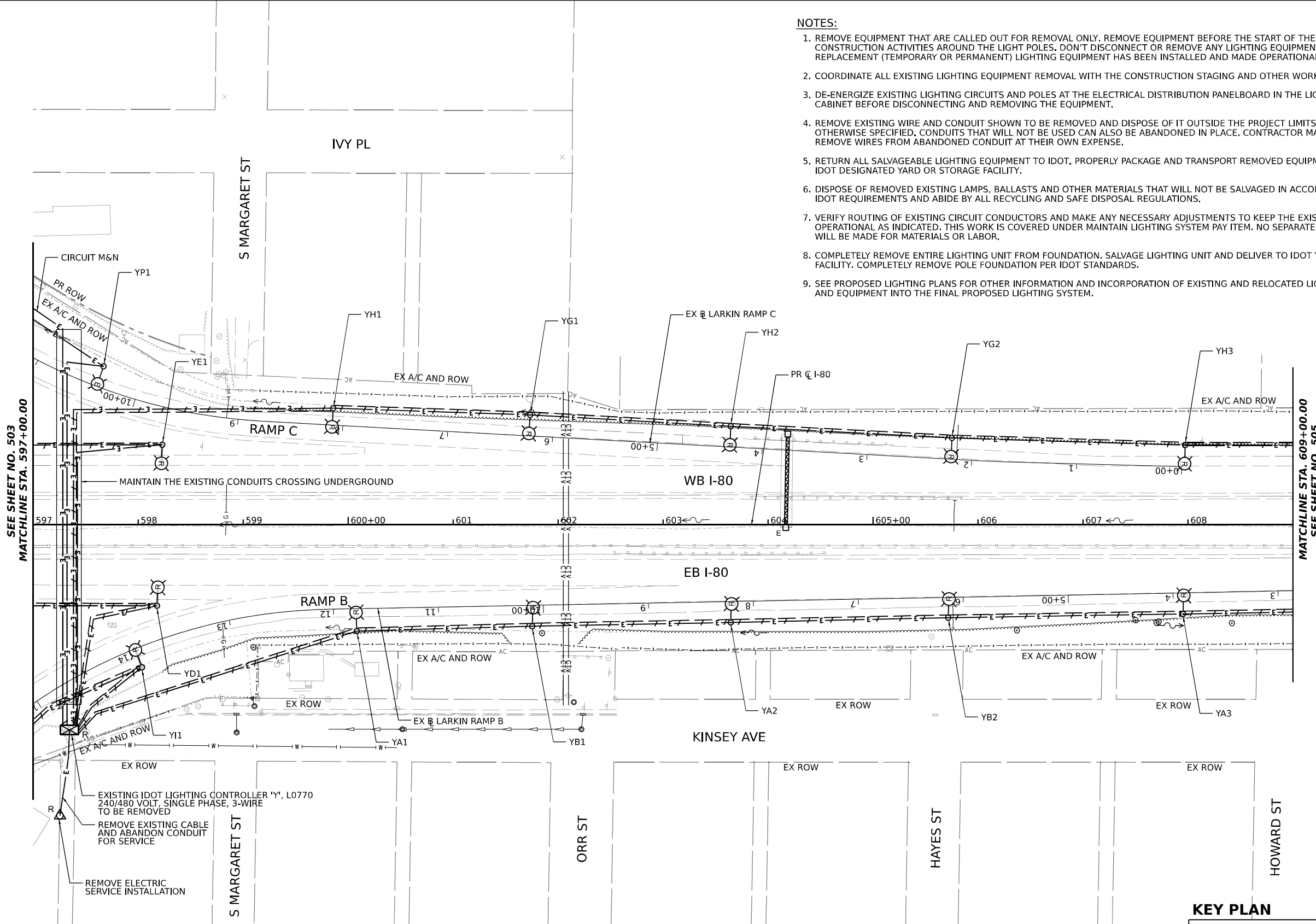
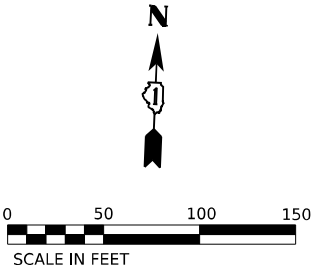
EXISTING LIGHTING REMOVAL PLANS

SCALE: 1"=50'    SHEET 5 OF 51 SHEETS    STA. 585+00 TO STA. 597+00

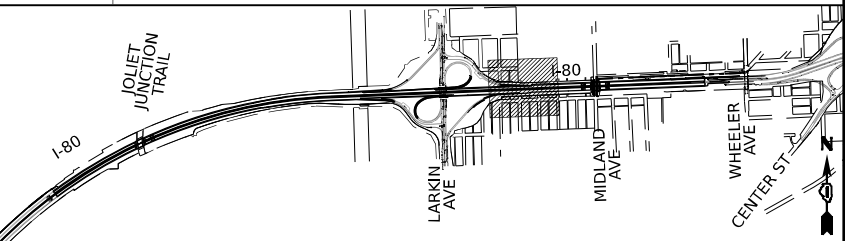
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 22 BR	WILL	1201	503
CONTRACT NO. 62R89				
ILLINOIS / FED. AID PROJECT				

NOTES:

1. REMOVE EQUIPMENT THAT ARE CALLED OUT FOR REMOVAL ONLY. REMOVE EQUIPMENT BEFORE THE START OF THE CONSTRUCTION ACTIVITIES AROUND THE LIGHT POLES. DON'T DISCONNECT OR REMOVE ANY LIGHTING EQUIPMENT UNLESS A REPLACEMENT (TEMPORARY OR PERMANENT) LIGHTING EQUIPMENT HAS BEEN INSTALLED AND MADE OPERATIONAL.
2. COORDINATE ALL EXISTING LIGHTING EQUIPMENT REMOVAL WITH THE CONSTRUCTION STAGING AND OTHER WORK.
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9. SEE PROPOSED LIGHTING PLANS FOR OTHER INFORMATION AND INCORPORATION OF EXISTING AND RELOCATED LIGHT POLES AND EQUIPMENT INTO THE FINAL PROPOSED LIGHTING SYSTEM.



KEY PLAN



303 EAST WACKER DRIVE, SUITE 1400  
CHICAGO, IL 60601-2276  
PHONE: (312) 373-7700 FAX: (312) 373-6800

USER NAME	= myersc
DESIGNED	- TJL
DRAWN	- CAM
CHECKED	- MAE
DATE	- 10/6/23
PLOT SCALE	= 100,000' / in.
PLOT DATE	= 10/5/2023

REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

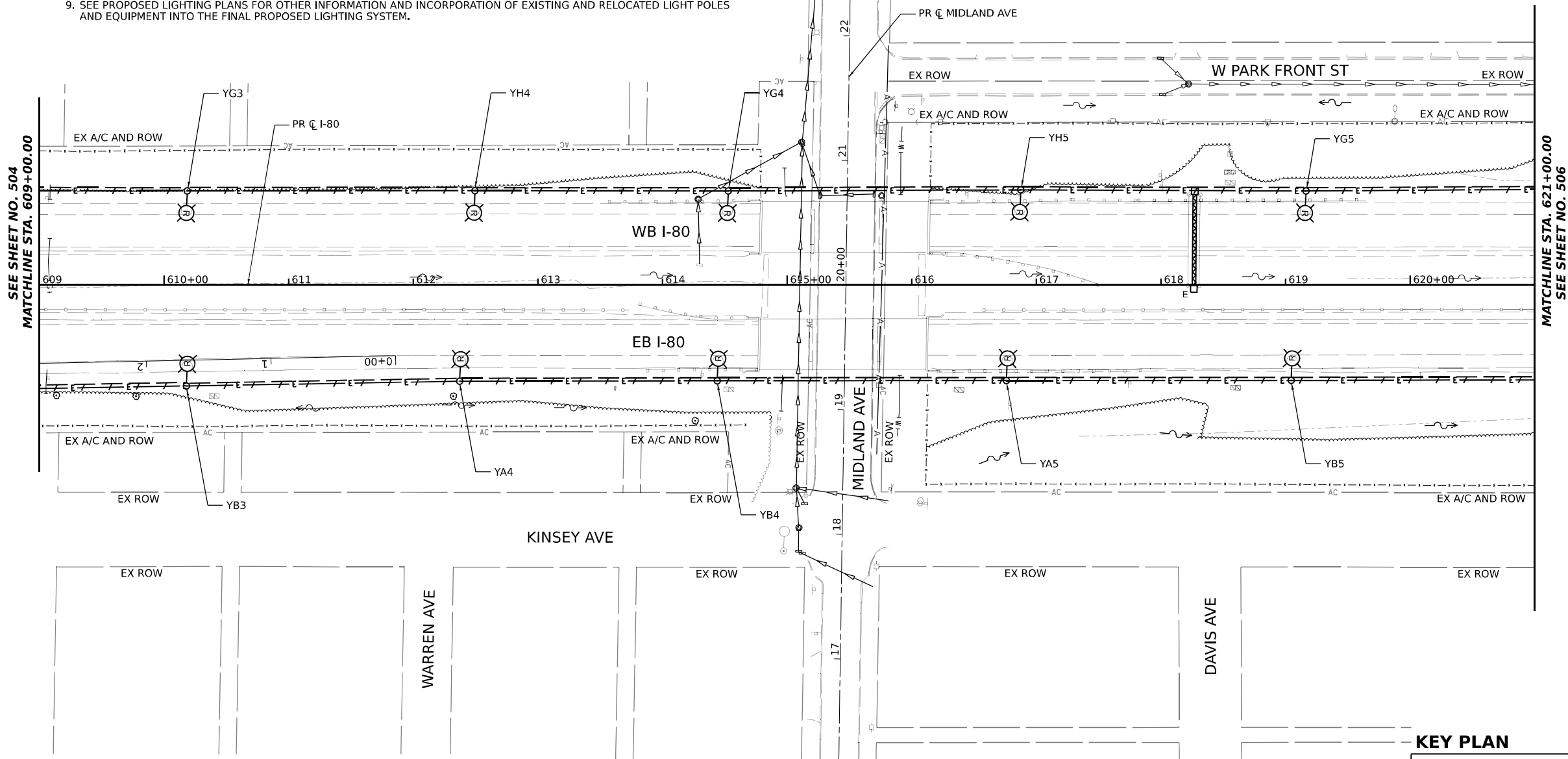
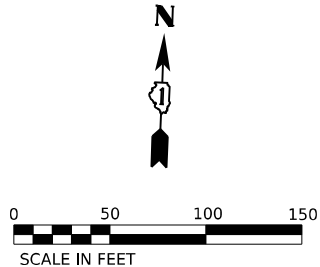
EXISTING LIGHTING REMOVAL PLANS

SCALE: 1"=50'      SHEET 6 OF 51 SHEETS      STA. 597+00 TO STA. 609+00

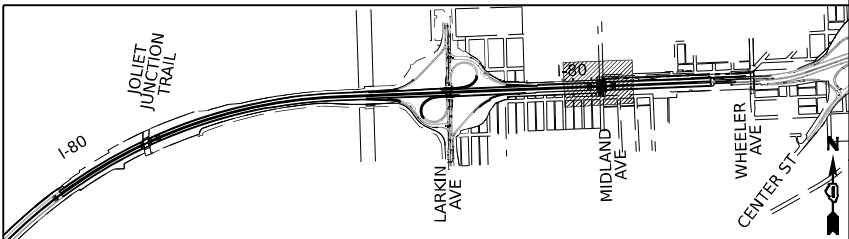
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 22 BR	WILL	1201	504
CONTRACT NO. 62R89				
ILLINOIS FED. AID PROJECT				

NOTES:

1. REMOVE EQUIPMENT THAT ARE CALLED OUT FOR REMOVAL ONLY. REMOVE EQUIPMENT BEFORE THE START OF THE CONSTRUCTION ACTIVITIES AROUND THE LIGHT POLES, DON'T DISCONNECT OR REMOVE ANY LIGHTING EQUIPMENT UNLESS A REPLACEMENT (TEMPORARY OR PERMANENT) LIGHTING EQUIPMENT HAS BEEN INSTALLED AND MADE OPERATIONAL.
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9. SEE PROPOSED LIGHTING PLANS FOR OTHER INFORMATION AND INCORPORATION OF EXISTING AND RELOCATED LIGHT POLES AND EQUIPMENT INTO THE FINAL PROPOSED LIGHTING SYSTEM.



KEY PLAN



303 EAST WACKER DRIVE, SUITE 1400  
CHICAGO, IL 60601-5276  
PHONE: (312) 373-7700 FAX: (312) 373-6800

USER NAME	= myersc
DESIGNED	- TJL
DRAWN	- CAM
CHECKED	- MAE
DATE	- 10/6/23
PLOT SCALE	= 100,000' / in.
PLOT DATE	= 10/5/2023

REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

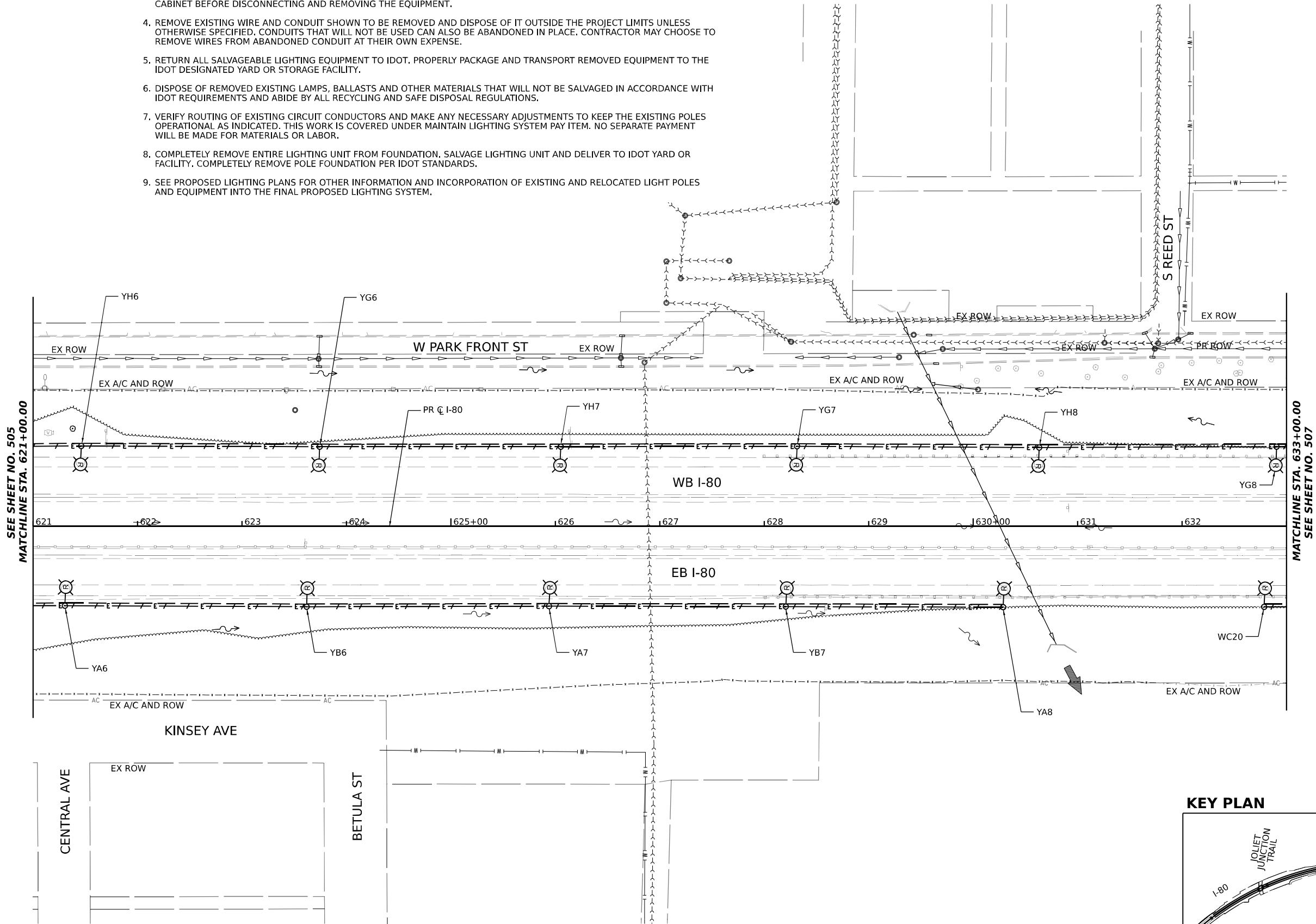
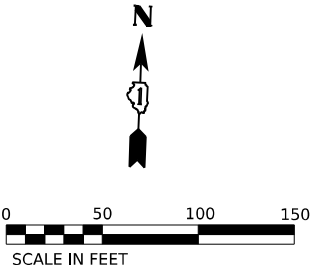
EXISTING LIGHTING REMOVAL PLANS

SCALE: 1"=50'    SHEET 7 OF 51 SHEETS    STA. 609+00 TO STA. 621+00

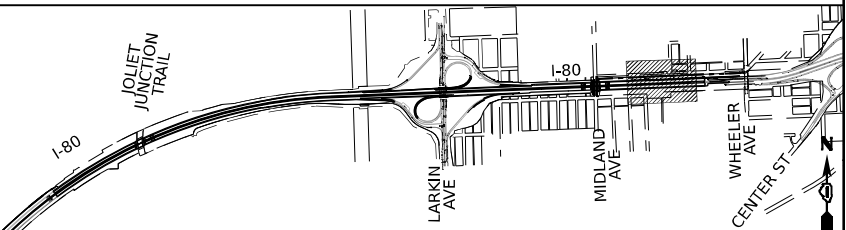
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 22 BR	WILL	1201	505
CONTRACT NO. 62R89				
ILLINOIS FED. AID PROJECT				

NOTES:

1. REMOVE EQUIPMENT THAT ARE CALLED OUT FOR REMOVAL ONLY. REMOVE EQUIPMENT BEFORE THE START OF THE CONSTRUCTION ACTIVITIES AROUND THE LIGHT POLES. DON'T DISCONNECT OR REMOVE ANY LIGHTING EQUIPMENT UNLESS A REPLACEMENT (TEMPORARY OR PERMANENT) LIGHTING EQUIPMENT HAS BEEN INSTALLED AND MADE OPERATIONAL.
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5. RETURN ALL SALVAGEABLE LIGHTING EQUIPMENT TO IDOT, PROPERLY PACKAGE AND TRANSPORT REMOVED EQUIPMENT TO THE IDOT DESIGNATED YARD OR STORAGE FACILITY.
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9. SEE PROPOSED LIGHTING PLANS FOR OTHER INFORMATION AND INCORPORATION OF EXISTING AND RELOCATED LIGHT POLES AND EQUIPMENT INTO THE FINAL PROPOSED LIGHTING SYSTEM.



KEY PLAN



USER NAME	= myersc
DESIGNED	- TJL
DRAWN	- CAM
CHECKED	- MAE
DATE	- 10/6/23
PLOT SCALE	= 100,000' / 1" =
PLOT DATE	= 10/5/2023

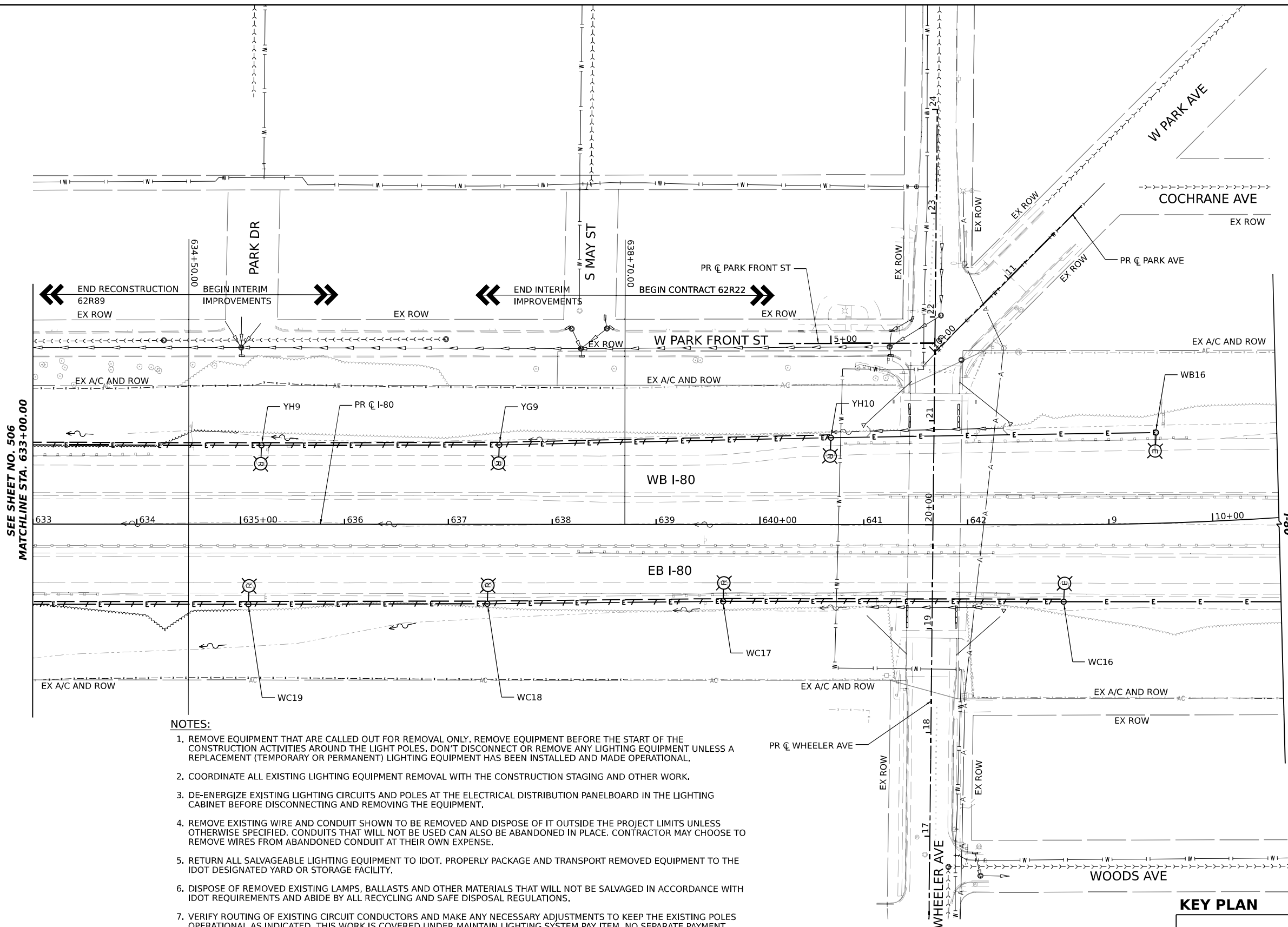
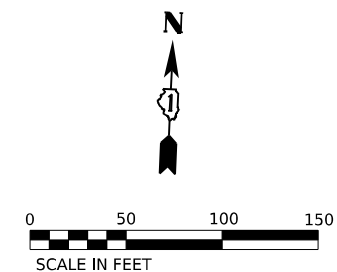
REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EXISTING LIGHTING REMOVAL PLANS

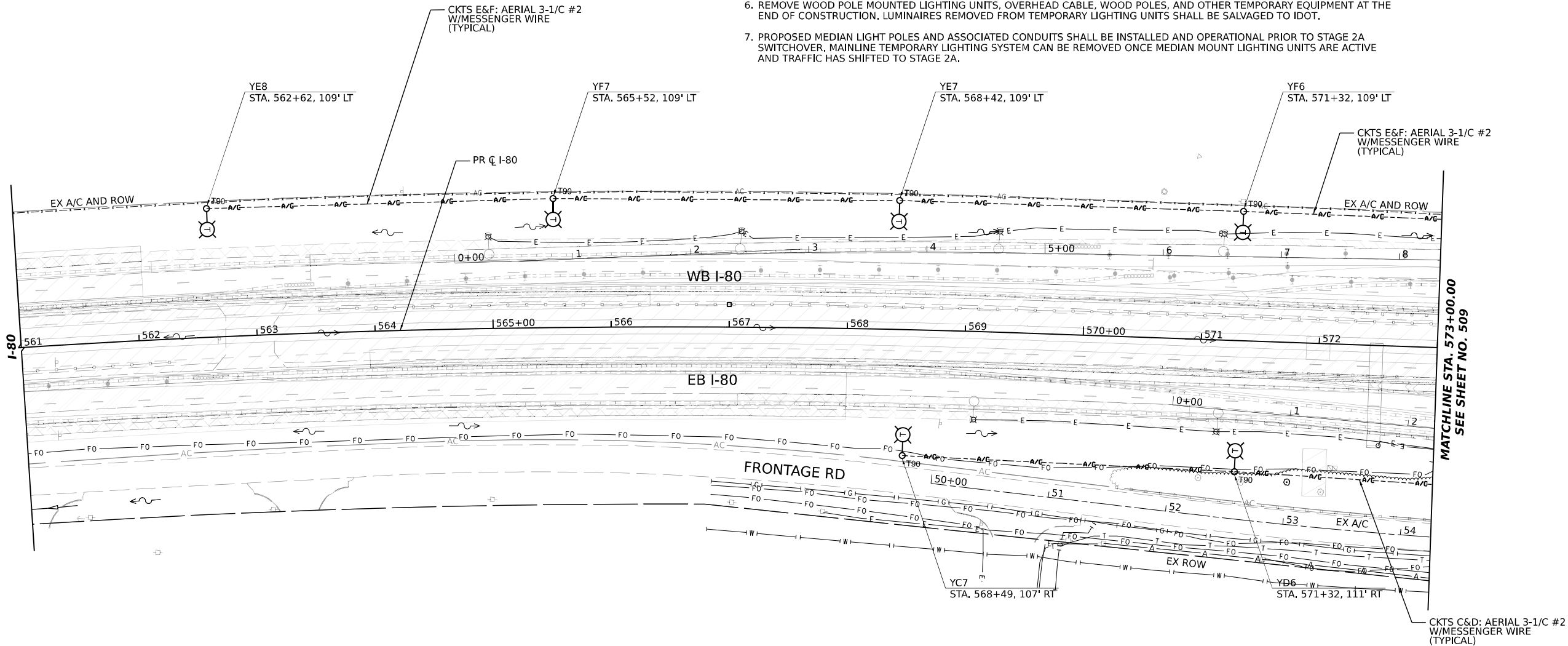
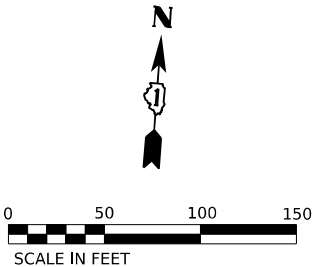
SCALE: 1"=50'    SHEET 8 OF 51 SHEETS    STA. 621+00 TO STA. 633+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 22 BR	WILL	1201	506
CONTRACT NO. 62R89				
ILLINOIS FED. AID PROJECT				

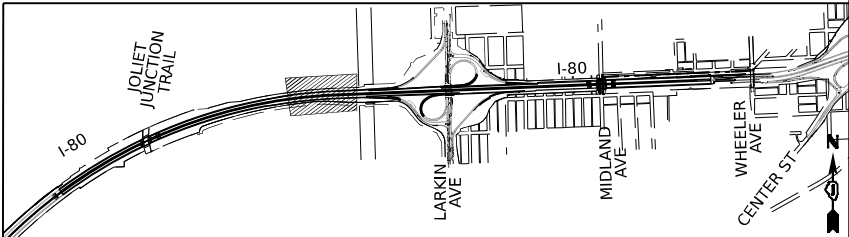


NOTES:

1. PROVIDE A TEMPORARY AERIAL CABLE FEED WITH MESSENGER WIRE BETWEEN TEMPORARY LIGHTING UNITS AS SHOWN. ROUTE AERIAL CABLE ON WOOD POLES IN ORDER TO CONNECT THE ROADWAY LIGHTING CIRCUITS AS SHOWN.
2. THE CONTRACTOR SHALL MAINTAIN THE EXISTING LIGHTING EQUIPMENT FULLY OPERATIONAL ON THE TRAFFIC SIDE OF THE ROADWAY. THE CONTRACTOR SHALL REWIRE EXISTING LIGHTING CIRCUITS AS NECESSARY TO KEEP ALL OF THE LIGHT POLES OPERATIONAL DURING CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ANY EQUIPMENT, MATERIALS, AND LABOR NECESSARY TO ACCOMPLISH THIS GOAL EVEN IF NOT SPECIFIED OR DETAILED IN THE PLANS. THIS WORK SHALL BE PAID FOR UNDER EACH INDIVIDUAL LIGHTING PAY ITEMS.
3. THE CONTRACTOR SHALL SPLICE AERIAL CABLE AT LIGHT POLES USING HEAT-SHRINK CAPS WITH FACTORY APPLIED WATERPROOF SEALANT.
4. WHERE THE CONTINUITY OF CIRCUITS OR CONDUITS SERVING ANY EXISTING LIGHTING/EQUIPMENT TO REMAIN IN OPERATION IS INTERFERED WITH, RE-ROUTE, AND REWIRE SUCH CIRCUITS OR CONDUITS IN ORDER TO KEEP THE LIGHTING SYSTEM OPERATIONAL AT ALL TIMES.
5. THE TEMPORARY WIRING OF THE EXISTING LIGHTING MUST BE INSTALLED AND THE LIGHTING SYSTEM MADE FULLY OPERATIONAL BEFORE THE EXISTING UNDERGROUND CONDUITS AND WIRING ARE DISCONNECTED OR REMOVED.
6. REMOVE WOOD POLE MOUNTED LIGHTING UNITS, OVERHEAD CABLE, WOOD POLES, AND OTHER TEMPORARY EQUIPMENT AT THE END OF CONSTRUCTION. LUMINAIRES REMOVED FROM TEMPORARY LIGHTING UNITS SHALL BE SALVAGED TO IDOT.
7. PROPOSED MEDIAN LIGHT POLES AND ASSOCIATED CONDUITS SHALL BE INSTALLED AND OPERATIONAL PRIOR TO STAGE 2A SWITCHOVER. MAINLINE TEMPORARY LIGHTING SYSTEM CAN BE REMOVED ONCE MEDIAN MOUNT LIGHTING UNITS ARE ACTIVE AND TRAFFIC HAS SHIFTED TO STAGE 2A.



KEY PLAN



USER NAME	= myersc	DESIGNED -	TJL	REVISED -	
DRAWN -	CAM	REVISED -			
PLOT SCALE	= 100,000' / in.	CHECKED -	MAE	REVISED -	
PLOT DATE	= 10/5/2023	DATE -	10/6/23	REVISED -	

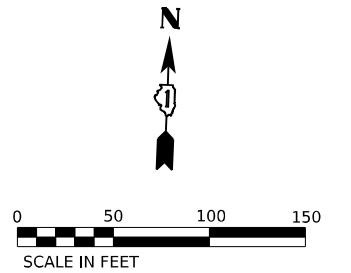
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TEMPORARY LIGHTING PLANS

SCALE: 1"=50'      SHEET 10 OF 51 SHEETS      STA. 561+00      TO STA. 573+00

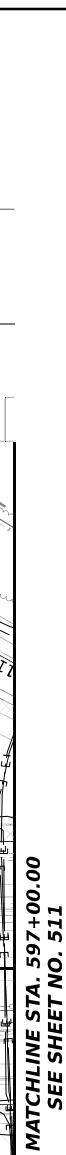
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 22 BR	WILL	1201	508
CONTRACT NO. 62R89				
ILLINOIS FED. AID PROJECT				

1. PROVIDE A TEMPORARY AERIAL CABLE FEED WITH MESSENGER WIRE BETWEEN TEMPORARY LIGHTING UNITS AS SHOWN. ROUTE AERIAL CABLE ON WOOD POLES IN ORDER TO CONNECT THE ROADWAY LIGHTING CIRCUITS AS SHOWN.
2. THE CONTRACTOR SHALL MAINTAIN THE EXISTING LIGHTING EQUIPMENT FULLY OPERATIONAL ON THE TRAFFIC SIDE OF THE ROADWAY. THE CONTRACTOR SHALL REWIRE EXISTING LIGHTING CIRCUITS AS NECESSARY TO KEEP ALL OF THE LIGHT POLES OPERATIONAL DURING CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ANY EQUIPMENT, MATERIALS, AND LABOR NECESSARY TO ACCOMPLISH THIS GOAL EVEN IF NOT SPECIFIED OR DETAILED IN THE PLANS. THIS WORK SHALL BE PAID FOR UNDER EACH INDIVIDUAL LIGHTING PAY ITEMS.
3. THE CONTRACTOR SHALL SPLICE AERIAL CABLE AT LIGHT POLES USING HEAT-SHRINK CAPS WITH FACTORY APPLIED WATERPROOF SEALANT.
4. WHERE THE CONTINUITY OF CIRCUITS OR CONDUITS SERVING ANY EXISTING LIGHTING/EQUIPMENT TO REMAIN IN OPERATION IS INTERFERED WITH, RE-ROUTE, AND REWIRE SUCH CIRCUITS OR CONDUITS IN ORDER TO KEEP THE LIGHTING SYSTEM OPERATIONAL AT ALL TIMES.
5. THE TEMPORARY WIRING OF THE EXISTING LIGHTING MUST BE INSTALLED AND THE LIGHTING SYSTEM MADE FULLY OPERATIONAL BEFORE THE EXISTING UNDERGROUND CONDUITS AND WIRING ARE DISCONNECTED OR REMOVED.
6. REMOVE WOOD POLE MOUNTED LIGHTING UNITS, OVERHEAD CABLE, WOOD POLES, AND OTHER TEMPORARY EQUIPMENT AT THE END OF CONSTRUCTION. LUMINAIRES REMOVED FROM TEMPORARY LIGHTING UNITS SHALL BE SALVAGED TO IDOT.



7. TEMPORARY LIGHTING UNIT TO REMAIN ACTIVE UNTIL THE PROPOSED LIGHTING UNITS ALONG RAMP D ARE INSTALLED AND ENERGIZED, ONCE PROPOSED LUMINAIRES ARE ACTIVE THE TEMPORARY LIGHTING UNITS AND ALL AERIAL CABLES SHALL BE REMOVED.
8. AN AERIAL FEED SHALL BE INSTALLED FROM PROPOSED MEDIAN BARRIER MOUNTED LIGHT POLE YQ15 TO TEMPORARY LIGHTING UNIT YES IN CONSTRUCTION STAGE 2A TO MAINTAIN POWER TO THE TEMPORARY LIGHTING UNITS TO REMAIN ALONG RAMP D.
9. PROPOSED MEDIAN LIGHT POLES AND ASSOCIATED CONDUITS SHALL BE INSTALLED AND OPERATIONAL PRIOR TO STAGE 2A SWITCHOVER, MAINLINE TEMPORARY LIGHTING SYSTEM CAN BE REMOVED ONCE MEDIAN MOUNT LIGHTING UNITS ARE ACTIVE AND TRAFFIC HAS SHIFTED TO STAGE 2A.

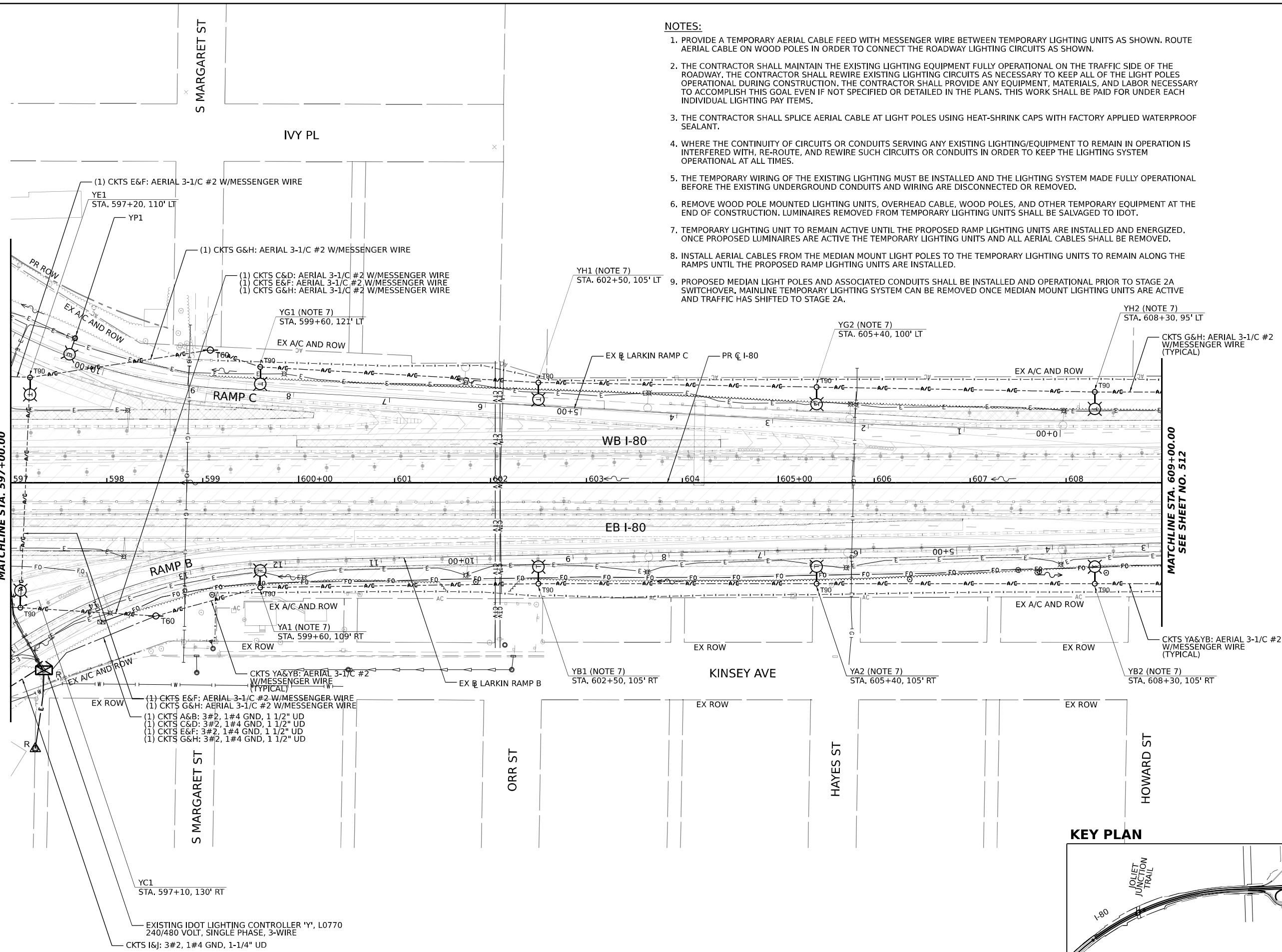




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- SCALE IN FEET

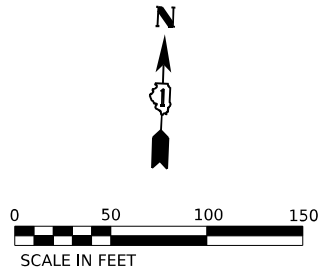


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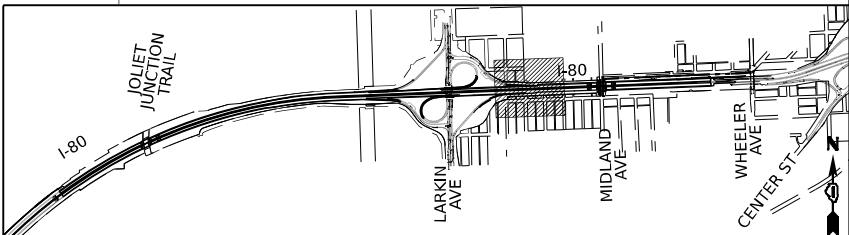


NOTES:

1. PROVIDE A TEMPORARY AERIAL CABLE FEED WITH MESSENGER WIRE BETWEEN TEMPORARY LIGHTING UNITS AS SHOWN. ROUTE AERIAL CABLE ON WOOD POLES IN ORDER TO CONNECT THE ROADWAY LIGHTING CIRCUITS AS SHOWN.
2. THE CONTRACTOR SHALL MAINTAIN THE EXISTING LIGHTING EQUIPMENT FULLY OPERATIONAL ON THE TRAFFIC SIDE OF THE ROADWAY. THE CONTRACTOR SHALL REWIRE EXISTING LIGHTING CIRCUITS AS NECESSARY TO KEEP ALL OF THE LIGHT POLES OPERATIONAL DURING CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ANY EQUIPMENT, MATERIALS, AND LABOR NECESSARY TO ACCOMPLISH THIS GOAL EVEN IF NOT SPECIFIED OR DETAILED IN THE PLANS. THIS WORK SHALL BE PAID FOR UNDER EACH INDIVIDUAL LIGHTING PAY ITEMS.
3. THE CONTRACTOR SHALL SPLICE AERIAL CABLE AT LIGHT POLES USING HEAT-SHRINK CAPS WITH FACTORY APPLIED WATERPROOF SEALANT.
4. WHERE THE CONTINUITY OF CIRCUITS OR CONDUITS SERVING ANY EXISTING LIGHTING/EQUIPMENT TO REMAIN IN OPERATION IS INTERFERED WITH, RE-ROUTE, AND REWIRE SUCH CIRCUITS OR CONDUITS IN ORDER TO KEEP THE LIGHTING SYSTEM OPERATIONAL AT ALL TIMES.
5. THE TEMPORARY WIRING OF THE EXISTING LIGHTING MUST BE INSTALLED AND THE LIGHTING SYSTEM MADE FULLY OPERATIONAL BEFORE THE EXISTING UNDERGROUND CONDUITS AND WIRING ARE DISCONNECTED OR REMOVED.
6. REMOVE WOOD POLE MOUNTED LIGHTING UNITS, OVERHEAD CABLE, WOOD POLES, AND OTHER TEMPORARY EQUIPMENT AT THE END OF CONSTRUCTION. LUMINAIRE REMOVED FROM TEMPORARY LIGHTING UNITS SHALL BE SALVAGED TO IDOT.
7. TEMPORARY LIGHTING UNIT TO REMAIN ACTIVE UNTIL THE PROPOSED RAMP LIGHTING UNITS ARE INSTALLED AND ENERGIZED. ONCE PROPOSED LUMINAIRE ARE ACTIVE THE TEMPORARY LIGHTING UNITS AND ALL AERIAL CABLES SHALL BE REMOVED.
8. INSTALL AERIAL CABLES FROM THE MEDIAN MOUNT LIGHT POLES TO THE TEMPORARY LIGHTING UNITS TO REMAIN ALONG THE RAMPS UNTIL THE PROPOSED RAMP LIGHTING UNITS ARE INSTALLED.
9. PROPOSED MEDIAN LIGHT POLES AND ASSOCIATED CONDUITS SHALL BE INSTALLED AND OPERATIONAL PRIOR TO STAGE 2A SWITCHOVER. MAINLINE TEMPORARY LIGHTING SYSTEM CAN BE REMOVED ONCE MEDIAN MOUNT LIGHTING UNITS ARE ACTIVE AND TRAFFIC HAS SHIFTED TO STAGE 2A.



KEY PLAN



USER NAME	= myersc	DESIGNED -	TJL	REVISED -	
		DRAWN -	CAM	REVISED -	
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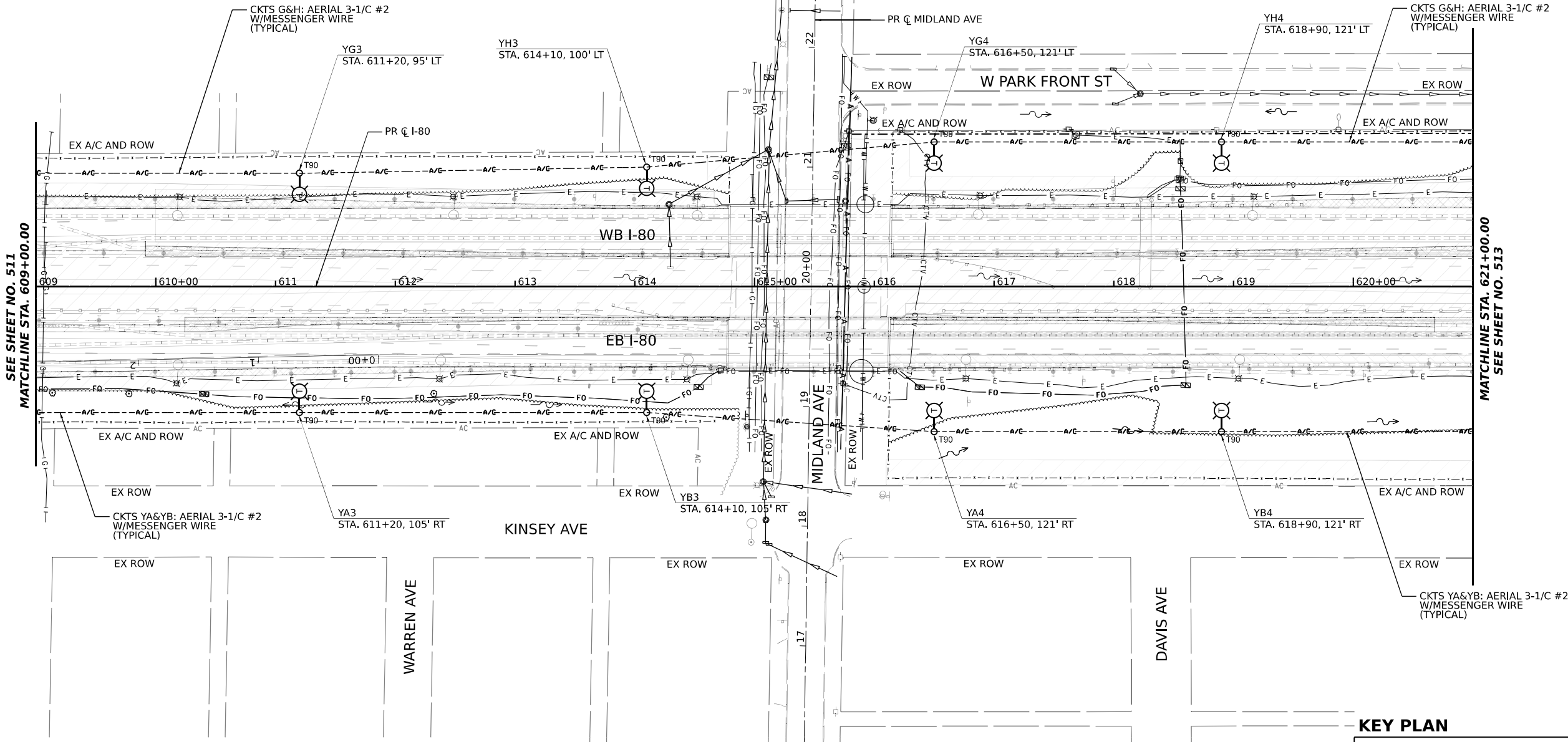
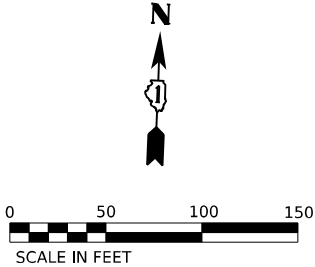
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TEMPORARY LIGHTING PLANS

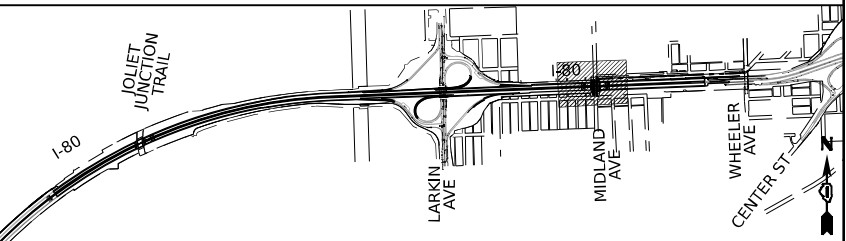
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 22 BR	WILL	1201	511
CONTRACT NO. 62R89				
ILLINOIS FED. AID PROJECT				

- NOTES:
1. PROVIDE A TEMPORARY AERIAL CABLE FEED WITH MESSENGER WIRE BETWEEN TEMPORARY LIGHTING UNITS AS SHOWN. ROUTE AERIAL CABLE ON WOOD POLES IN ORDER TO CONNECT THE ROADWAY LIGHTING CIRCUITS AS SHOWN.
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  5. THE TEMPORARY WIRING OF THE EXISTING LIGHTING MUST BE INSTALLED AND THE LIGHTING SYSTEM MADE FULLY OPERATIONAL BEFORE THE EXISTING UNDERGROUND CONDUITS AND WIRING ARE DISCONNECTED OR REMOVED.
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  7. PROPOSED MEDIAN LIGHT POLES AND ASSOCIATED CONDUITS SHALL BE INSTALLED AND OPERATIONAL PRIOR TO STAGE 2A SWITCHOVER. MAINLINE TEMPORARY LIGHTING SYSTEM CAN BE REMOVED ONCE MEDIAN MOUNT LIGHTING UNITS ARE ACTIVE AND TRAFFIC HAS SHIFTED TO STAGE 2A.



KEY PLAN



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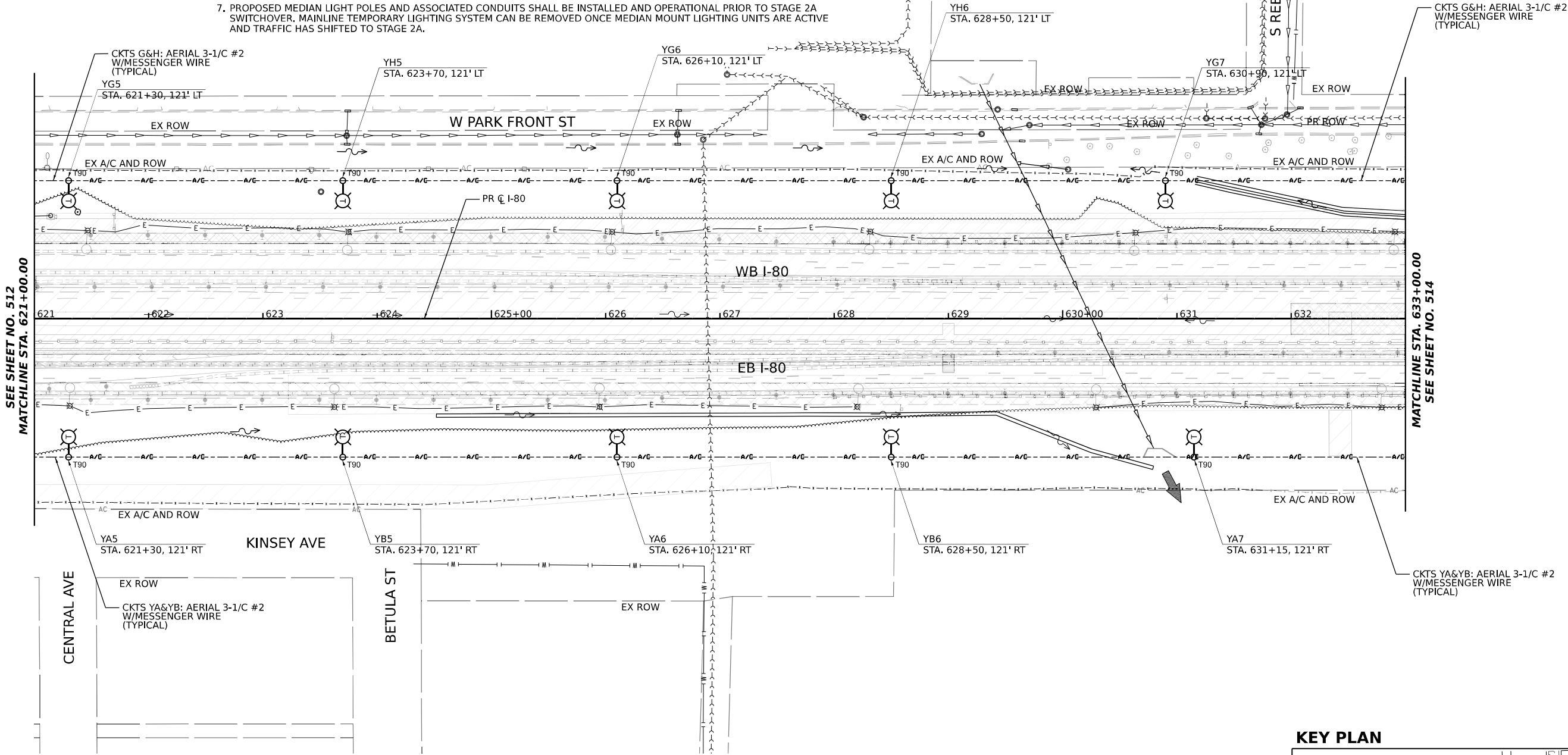
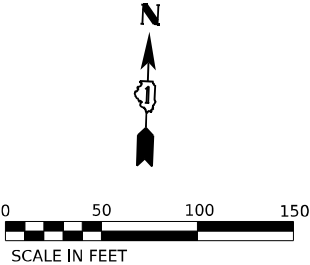
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TEMPORARY LIGHTING PLANS

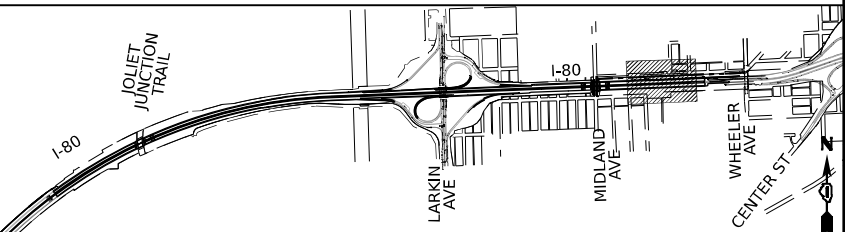
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 22 BR	WILL	1201	512
CONTRACT NO. 62R89				
ILLINOIS    FED. AID PROJECT				

- NOTES:
1. PROVIDE A TEMPORARY AERIAL CABLE FEED WITH MESSENGER WIRE BETWEEN TEMPORARY LIGHTING UNITS AS SHOWN. ROUTE AERIAL CABLE ON WOOD POLES IN ORDER TO CONNECT THE ROADWAY LIGHTING CIRCUITS AS SHOWN.
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  5. THE TEMPORARY WIRING OF THE EXISTING LIGHTING MUST BE INSTALLED AND THE LIGHTING SYSTEM MADE FULLY OPERATIONAL BEFORE THE EXISTING UNDERGROUND CONDUITS AND WIRING ARE DISCONNECTED OR REMOVED.
  6. REMOVE WOOD POLE MOUNTED LIGHTING UNITS, OVERHEAD CABLE, WOOD POLES, AND OTHER TEMPORARY EQUIPMENT AT THE END OF CONSTRUCTION. LUMINAIRES REMOVED FROM TEMPORARY LIGHTING UNITS SHALL BE SALVAGED TO IDOT.
  7. PROPOSED MEDIAN LIGHT POLES AND ASSOCIATED CONDUITS SHALL BE INSTALLED AND OPERATIONAL PRIOR TO STAGE 2A SWITCHOVER, MAINLINE TEMPORARY LIGHTING SYSTEM CAN BE REMOVED ONCE MEDIAN MOUNT LIGHTING UNITS ARE ACTIVE AND TRAFFIC HAS SHIFTED TO STAGE 2A.



KEY PLAN



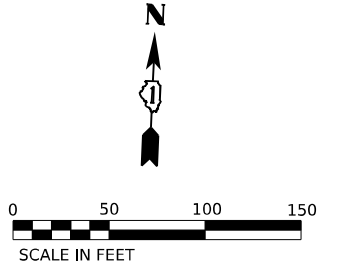
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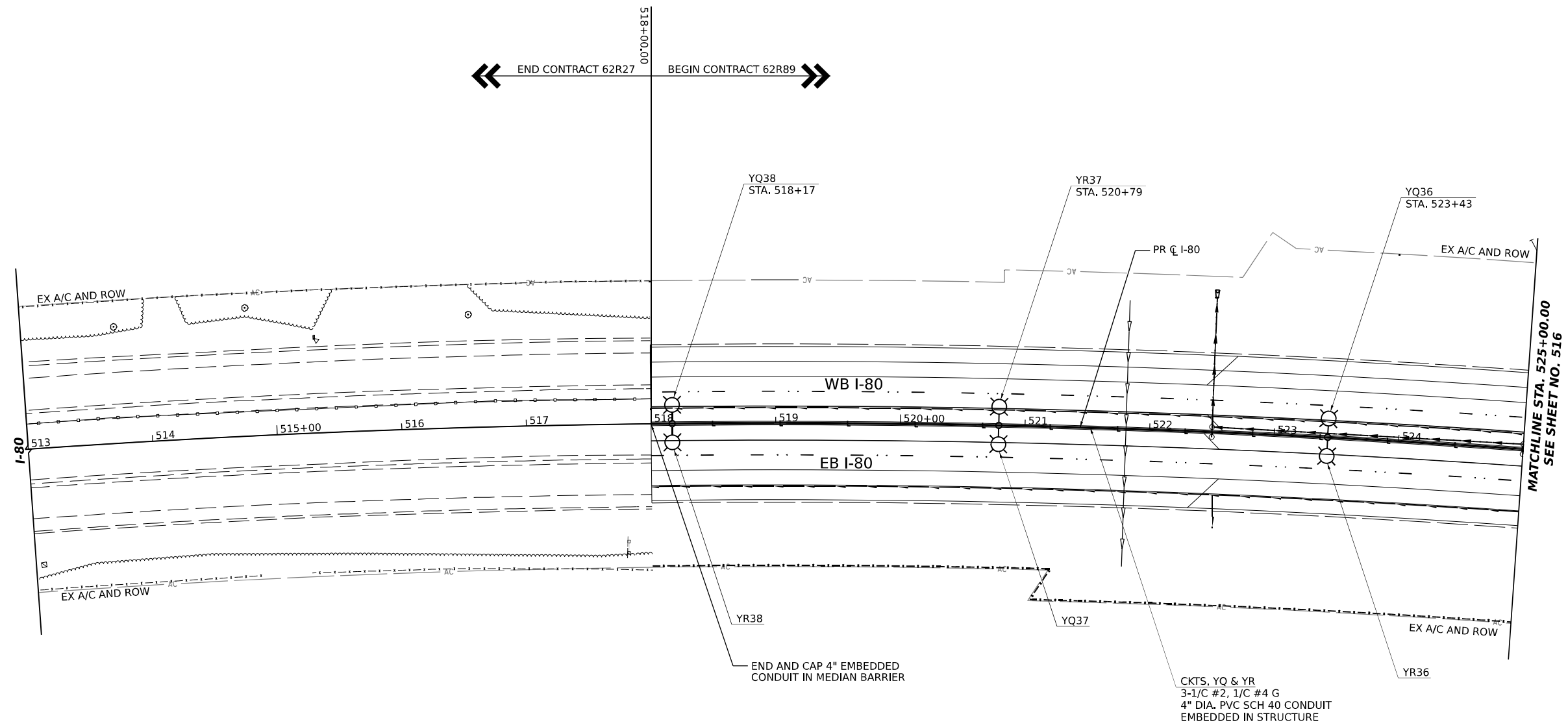
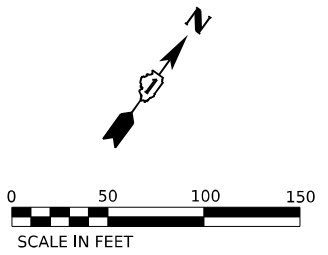
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TEMPORARY LIGHTING PLANS

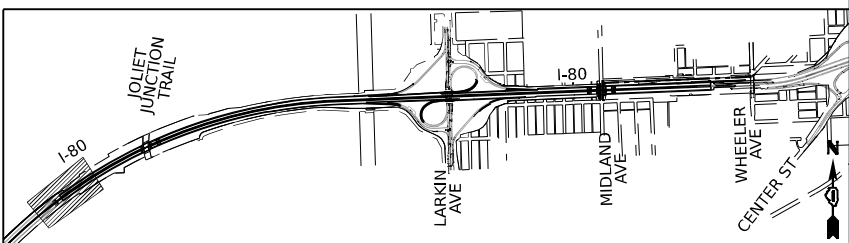
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 22 BR	WILL	1201	513
CONTRACT NO. 62R89				
ILLINOIS FED. AID PROJECT				





KEY PLAN



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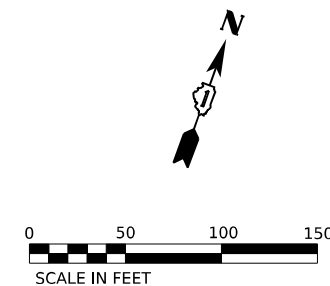
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	DRAWN - CAM	REVISED -
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PLOT DATE = 10/5/2023	DATE - 10/6/23	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PROPOSED LIGHTING PLANS			
SCALE: 1"=50'	SHEET 17 OF 51 SHEETS	STA. 513+00	TO STA. 525+00

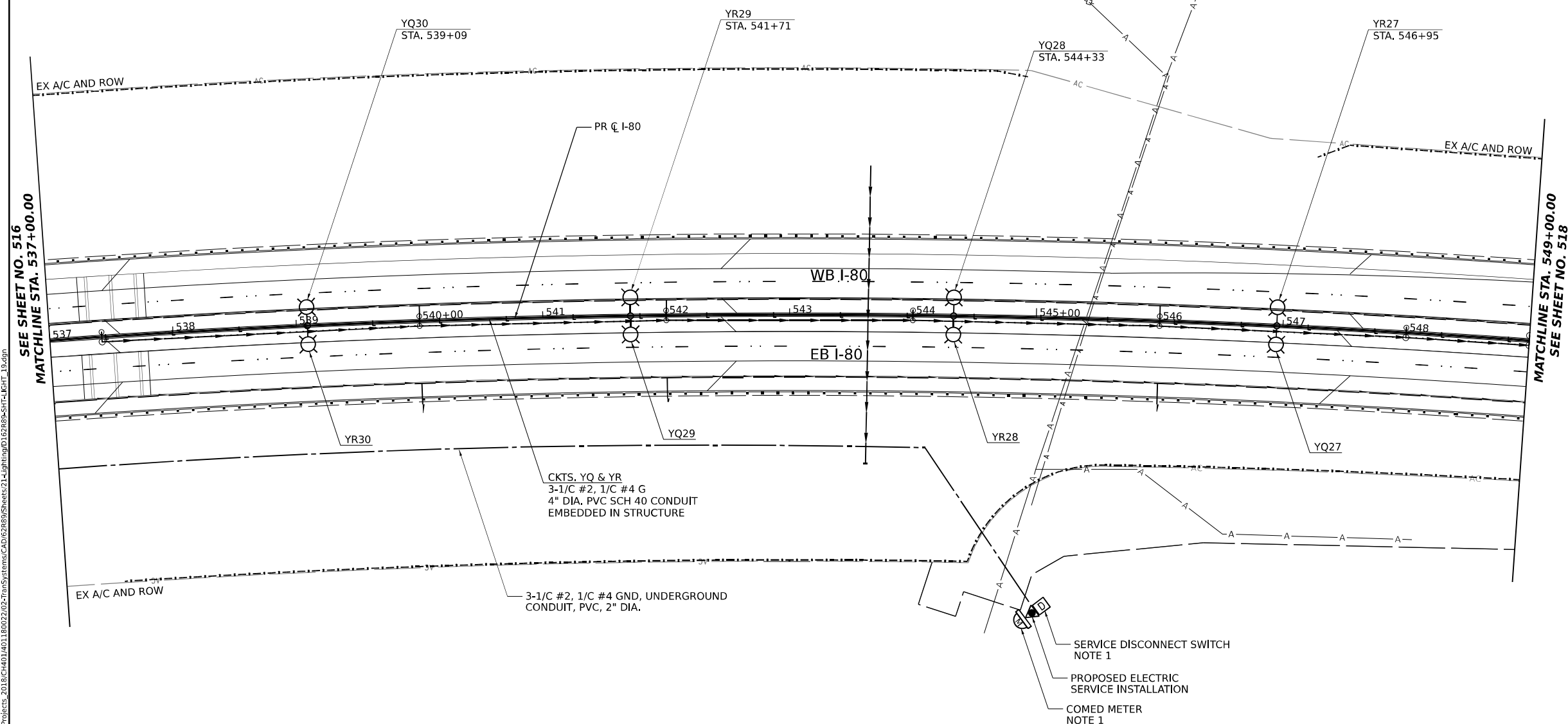
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 22 BR	WILL	1201	515
CONTRACT NO. 62R89				
ILLINOIS FED. AID PROJECT				



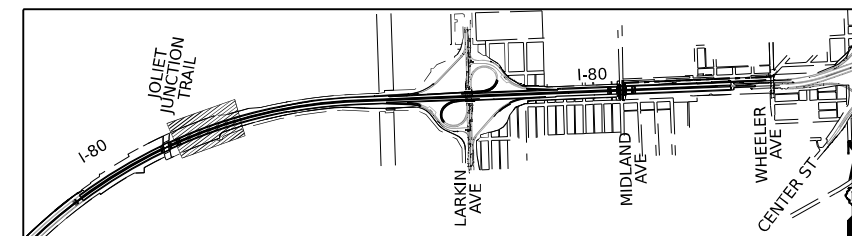


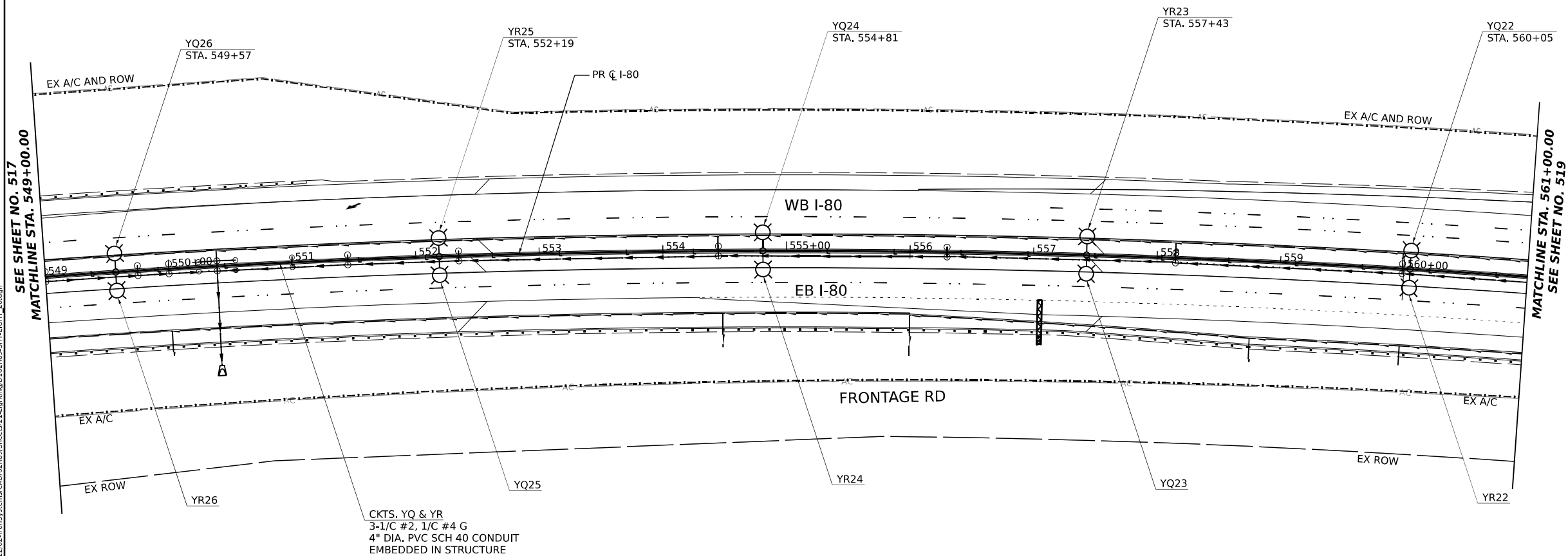
**NOTES:**

1. INSTALL A SERVICE DISCONNECT SWITCH AND A METER SOCKET ON THE COMED SERVICE POLE PER IDOT STANDARD 825001-04.

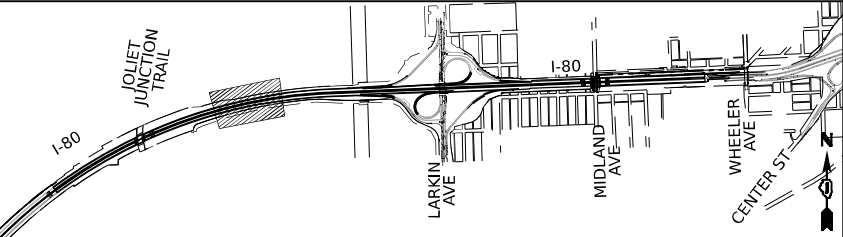


## KEY PLAN





KEY PLAN



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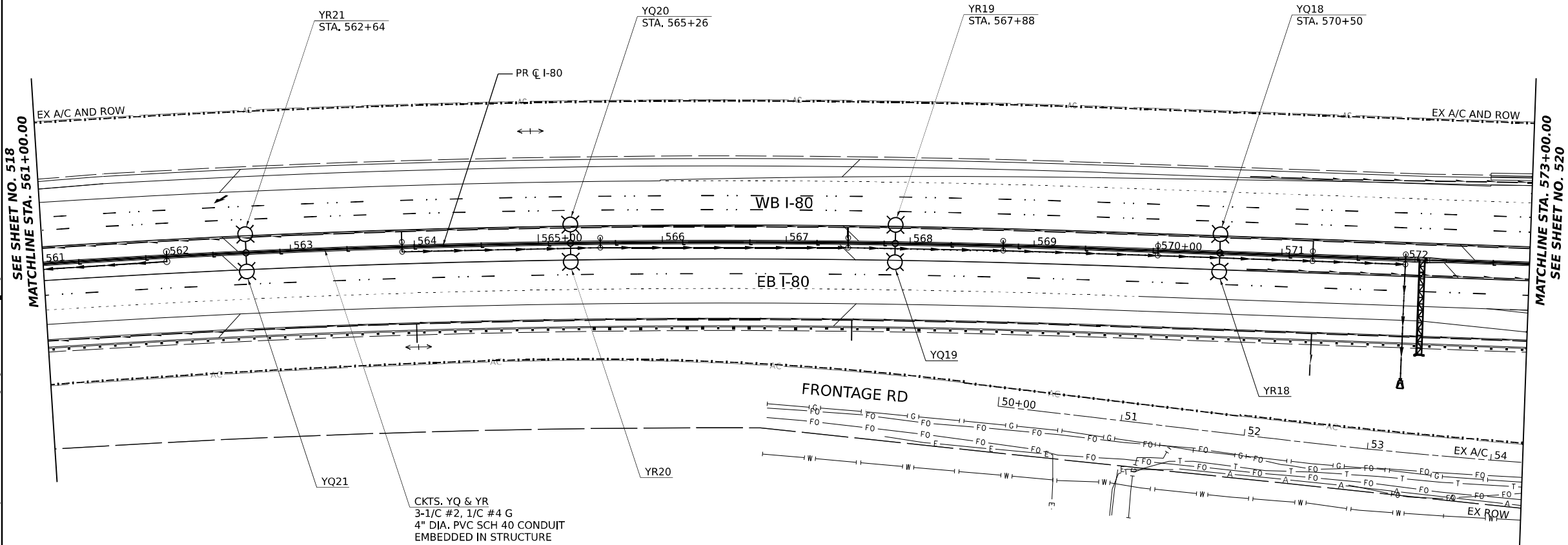
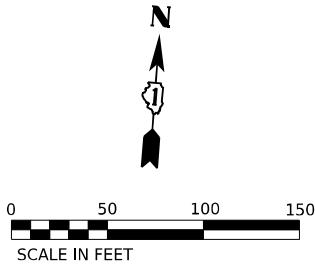
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PROPOSED LIGHTING PLANS

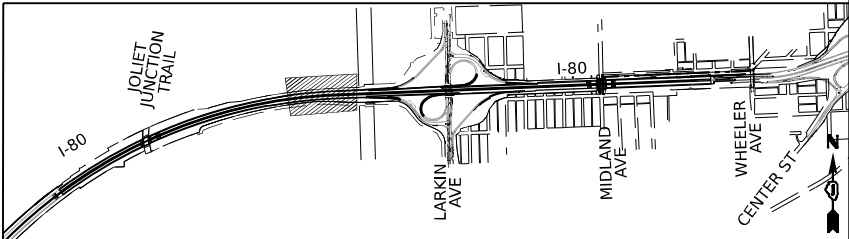
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 22 BR	WILL	1201	518
CONTRACT NO. 62R89				
ILLINOIS FED. AID PROJECT				





KEY PLAN



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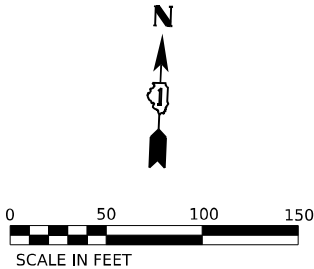
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PLOT DATE	= 10/5/2023	DATE -	10/6/23	REVISED -	

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

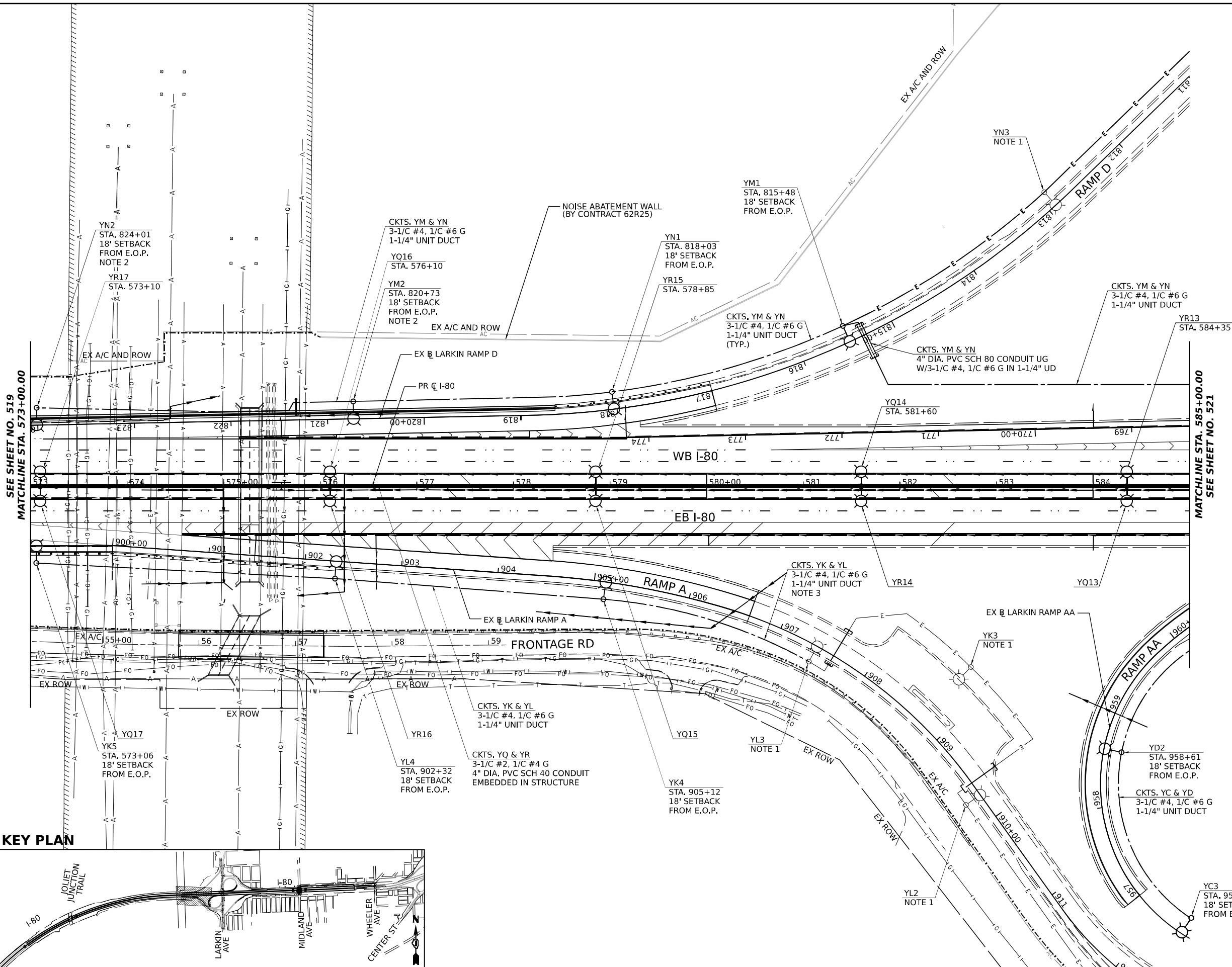
PROPOSED LIGHTING PLANS

SCALE: 1"=50'      SHEET 21 OF 51 SHEETS      STA. 561+00 TO STA. 573+00

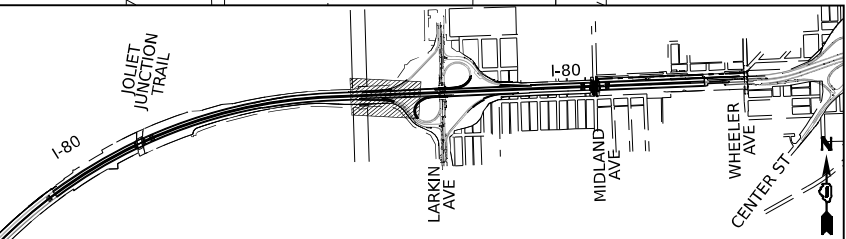
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 22 BR	WILL	1201	519
CONTRACT NO. 62R89				
ILLINOIS FED. AID PROJECT				



- NOTES:**
1. PROPOSED LIGHTING UNIT TO BE INSTALLED IN LARKIN INTERCHANGE CONTRACT 62R25.
  2. CONTRACTOR SHALL NOT INSTALL A BREAKAWAY TRANSFORMER BASE FOR LIGHTING UNITS LOCATED BEHIND THE SINGLE FACE BARRIER WALL.
  3. ROUTE THE PROPOSED UNIT DUCT INTO THE BASE OF LIGHTING UNIT YL3 AND SPLICE THE LIGHTING CIRCUIT CABLES TO THE EXISTING LIGHTING POWER FEED.



**KEY PLAN**



303 EAST WACKER DRIVE, SUITE 1400  
CHICAGO, IL 60601-2276  
PHONE: (312) 373-7700 FAX: (312) 373-6800

USER NAME	= myersc
PLOT SCALE	= 100,000' / in.
PLOT DATE	= 10/5/2023

DESIGNED	- TJL
DRAWN	- CAM
CHECKED	- MAE
DATE	- 10/6/23

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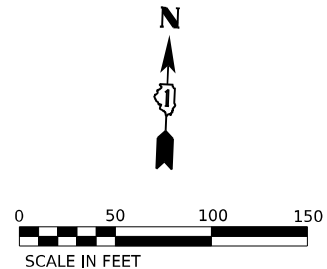
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PROPOSED LIGHTING PLANS**

SCALE: 1"=50'      SHEET 22 OF 51 SHEETS      STA. 573+00 TO STA. 585+00

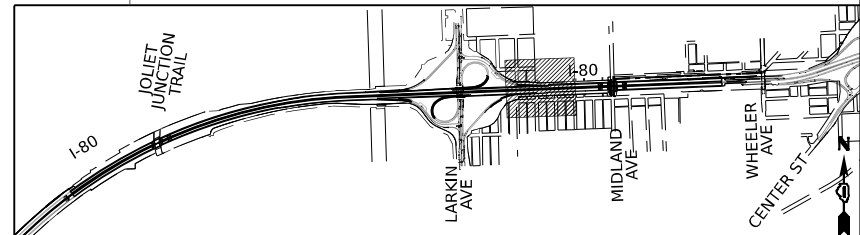
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 22 BR	WILL	1201	520
CONTRACT NO. 62R89				
ILLINOIS FED. AID PROJECT				





- NOTES:**
1. PROPOSED LIGHTING UNIT TO BE INSTALLED IN LARKIN INTERCHANGE CONTRACT 62R25.
  2. LIGHT POLE TO BE MOUNTED ON THE MOMENT SLAB BARRIER WALL ALONG THE RAMP, SEE STRUCTURAL PLANS FOR PROPOSED LIGHT POLE FOUNDATION LOCATION.
  3. ROUTE A 2 INCH EMBEDDED CONDUIT FROM THE JUNCTION BOX ATTACHED TO STRUCTURE TO THE END OF THE BARRIER WALL AND STUB AND CAP THE CONDUIT FOR FUTURE CONNECTION IN CONTRACT 62R25.

**KEY PLAN**

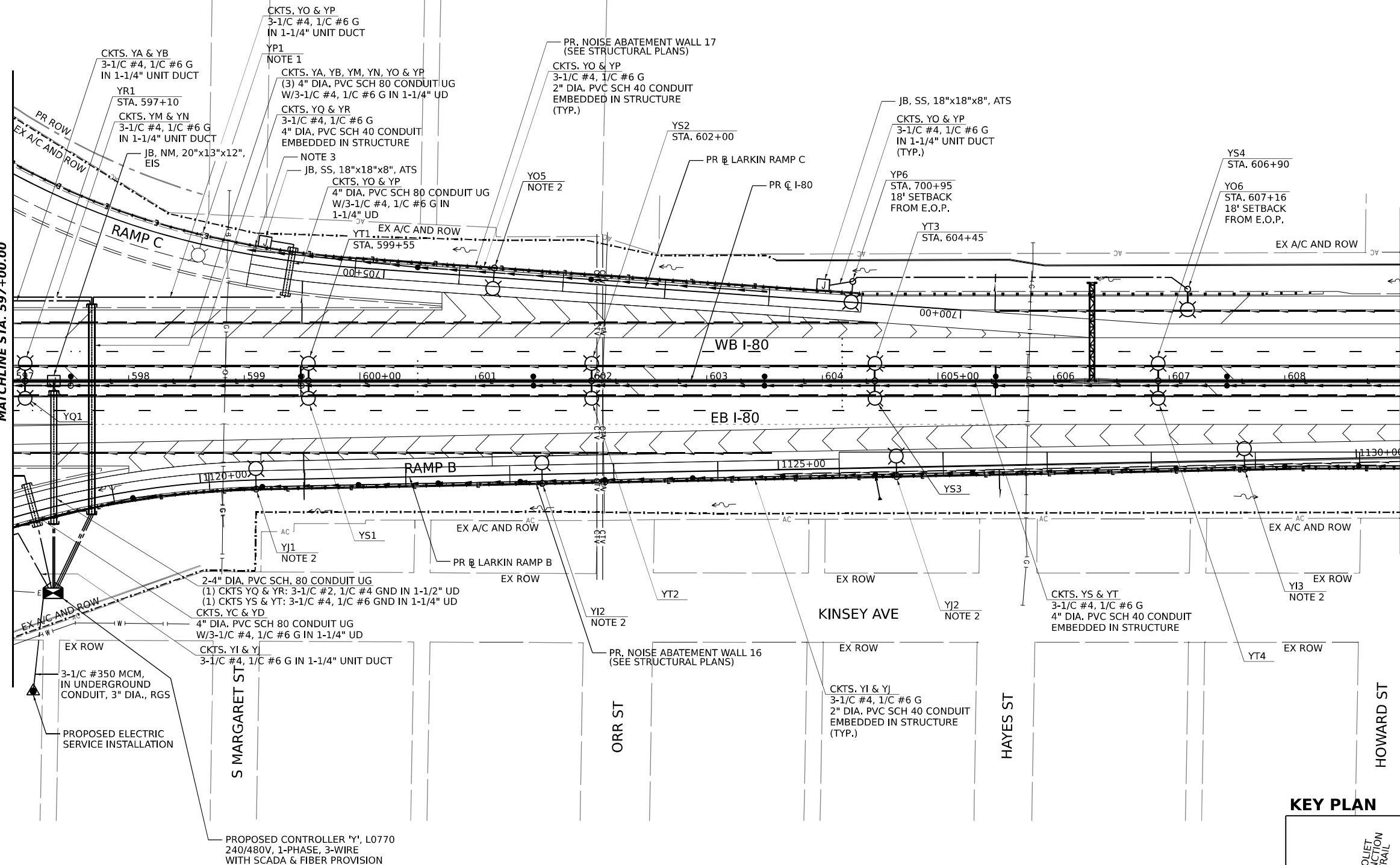


**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PROPOSED LIGHTING PLANS**

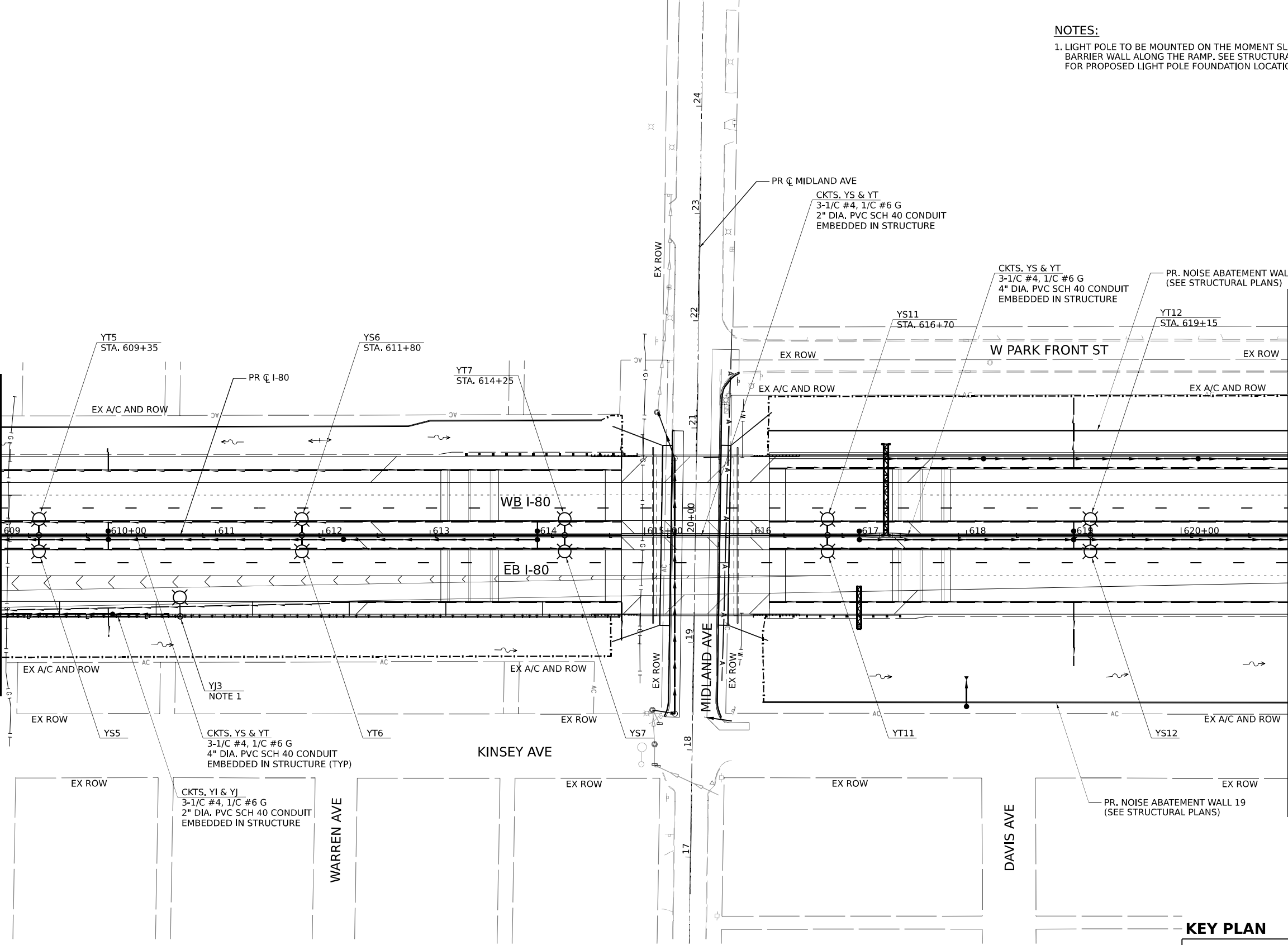
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 22 BR	WILL	1201	522
CONTRACT NO. 62R89				
ILLINOIS FED. AID PROJECT				



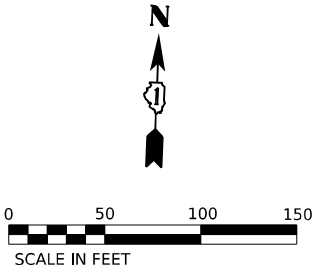
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SEE SHEET NO. 522  
MATCHLINE STA. 609+00.00

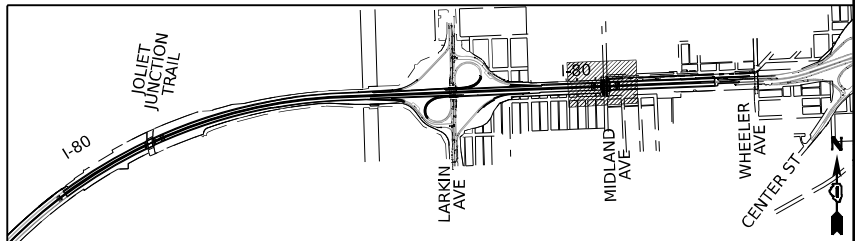


MATCHLINE STA. 621+00.00  
SEE SHEET NO. 524

NOTES:  
1. LIGHT POLE TO BE MOUNTED ON THE MOMENT SLAB  
BARRIER WALL ALONG THE RAMP. SEE STRUCTURAL PLANS  
FOR PROPOSED LIGHT POLE FOUNDATION LOCATION.



KEY PLAN



USER NAME	= myersc
DESIGNED	- TJL
DRAWN	- CAM
CHECKED	- MAE
DATE	- 10/6/23
PLOT SCALE	= 100,000' / in.
PLOT DATE	= 10/5/2023

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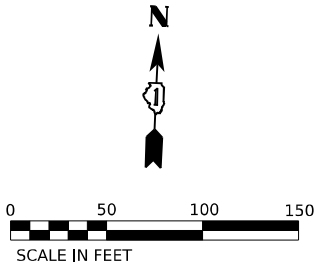
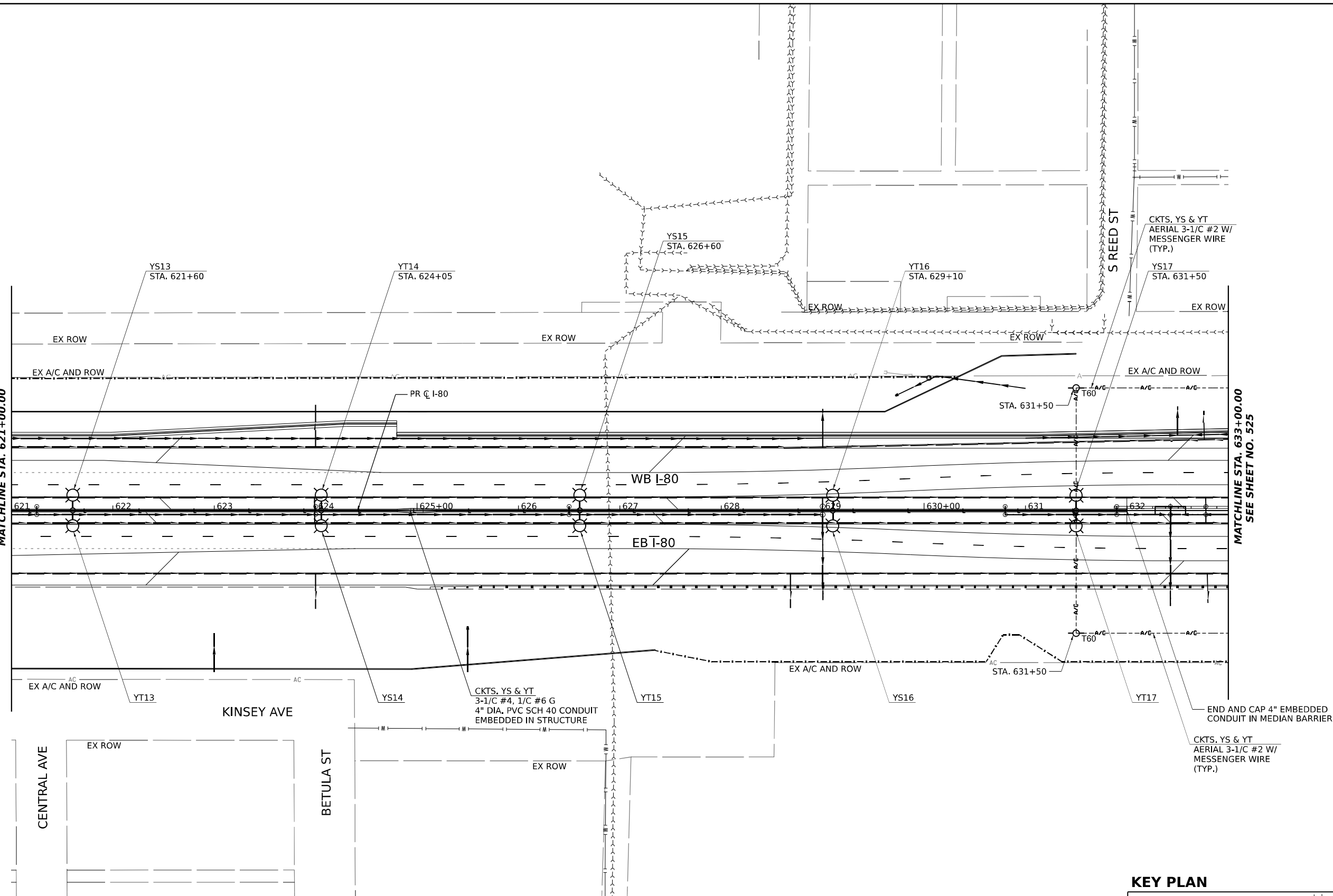
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PROPOSED LIGHTING PLANS

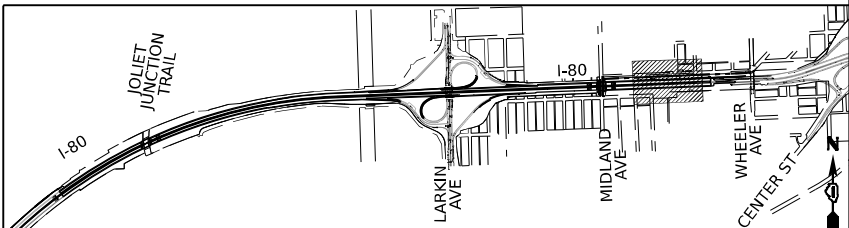
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 22 BR	WILL	1201	523
CONTRACT NO. 62R89				
ILLINOIS FED. AID PROJECT				

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KEY PLAN



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	DRAWN - CAM	REVISED -
	CHECKED - MAE	REVISED -
	DATE - 10/6/23	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

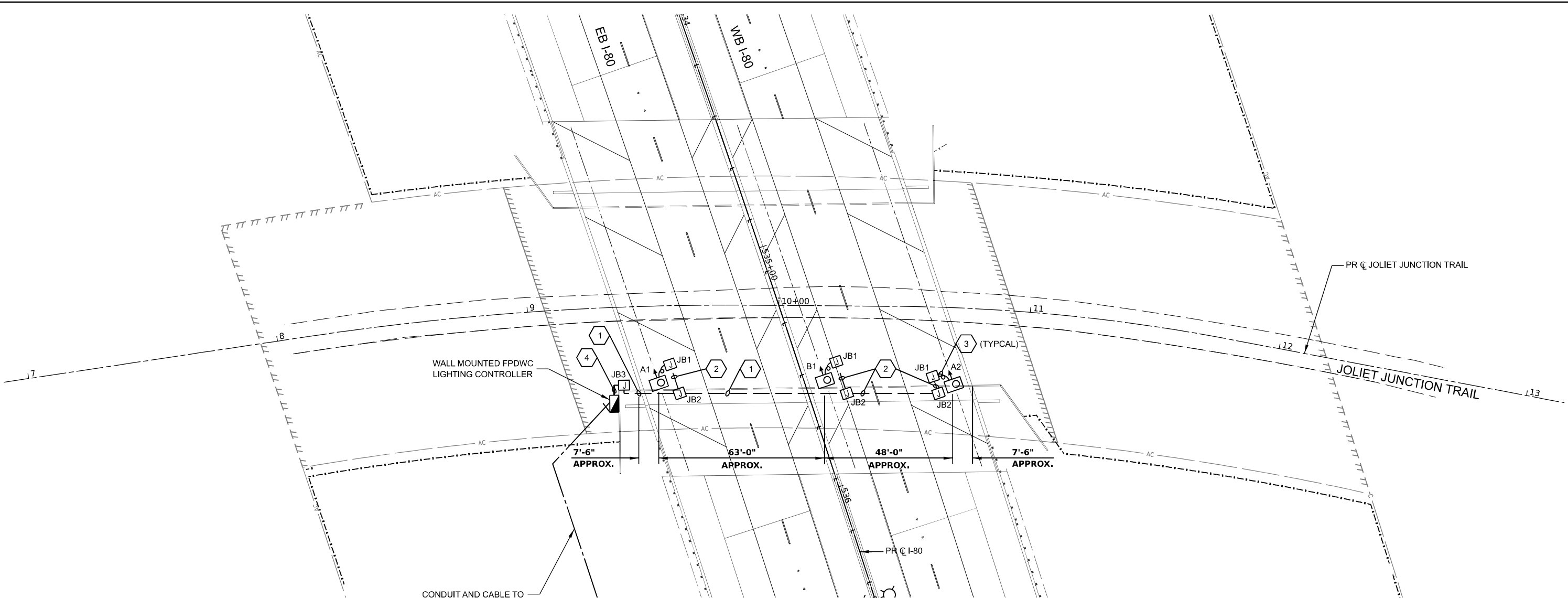
PROPOSED LIGHTING PLANS

SCALE: 1"=50'      SHEET 26 OF 51 SHEETS      STA. 621+00      TO STA. 633+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 22 BR	WILL	1201	524
CONTRACT NO. 62R89				
ILLINOIS FED. AID PROJECT				



F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 22 BR	WILL	1201	5255
		CONTRACT NO. 62R89		
ILLINOIS		FED. AID PROJECT		





NOTES

1. SEE DRAWING LT-01 FOR IDOT ELECTRICAL SYMBOLS.
2. SEE IDOT STANDARD DRAWING BE-901 FOR ADDITIONAL INSTALLATION DETAILS FOR PROPOSED SUSPENDED MOUNT UNDERPASS LUMINAIRES.
3. ALL PROPOSED UNDERPASS LIGHTING UNITS SHOWN ON THIS DRAWING WILL BE FED FROM FPDWC LIGHTING CONTROLLER. SEE IDOT STANDARD DRAWING 825001-04 FOR MORE DETAILS REGARDING THE WALL MOUNTED LIGHTING CONTROLLER.
4. THE UNDERPASS LIGHTING SYSTEM AT THIS LOCATION WILL BE OWNED AND MAINTAINED BY THE FOREST PRESERVE DISTRICT OF WILL COUNTY (FPDWC). THE LIGHTING CIRCUITS SHALL BE CONTROLLED BY A PHOTOCELL MOUNTED TO THE LIGHTING CONTROLLER ENCLOSURE.

PROPOSED UNDERPASS LIGHTING PLAN

NOTE 3

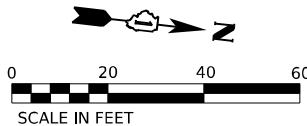
-  LIGHTING CONTROLLER, WALL MOUNTED, 120/240 VOLT, 1-PHASE, 3-WIRE, 100A
-  LED UNDERPASS LUMINAIRE OUTPUT DESIGNATION D, 240V

UNDERPASS LUMINAIRE TABLE (FPDWC CONTROLLER)				
LUMINAIRE	BASELINE	STATION & OFFSET	NOTES	MOUNTING
TA1	J.J. TRAIL	STA. 9+51.5, 30.7 RT	NOTE 3	SUSPENDED
TB1	J.J. TRAIL	STA. 10+18.6, 29.7 RT	NOTE 3	SUSPENDED
TA2	J.J. TRAIL	STA. 10+70.8, 30.6 RT	NOTE 3	SUSPENDED

NOTE: CENTERING THE UNDERPASS LUMINAIRES BETWEEN THE STRUCTURAL BEAMS TAKES PRECEDENCE OVER THE STATION AND OFFSET PROVIDED IN THE TABLE.

JUNCTION BOX SCHEDULE		
NO.	SIZE	DESCRIPTION
JB1	6"X6"X4"	STAINLESS STEEL, ATTACHED TO STRUCTURE, UNDERPASS LIGHTING
JB2	12"X10"X6"	STAINLESS STEEL, ATTACHED TO STRUCTURE, UNDERPASS LIGHTING
JB3	18"X18"X8"	STAINLESS STEEL, ATTACHED TO STRUCTURE, UNDERPASS LIGHTING

CABLE / CONDUIT SCHEDULE	
1	4-1/C#10, 1-1/C#10 GND IN 1" DIA PVCC RGC ATTACHED TO STRUCTURE (CKTS AS INDICATED ON THIS DRAWING)
2	2-1/C#10, 1-1/C#10 GND IN 1" DIA PVCC RGC ATTACHED TO STRUCTURE (CKTS AS INDICATED ON THIS DRAWING)
3	2-1/C#10, 1-1/C#10 GND IN 3/4" DIA LIQUID TIGHT FLEXIBLE CONDUIT (CKTS AS INDICATED ON THIS DRAWING)
4	4-1/C#10, 1-1/C#10 GND IN 3" DIA PVCC RGC ATTACHED TO STRUCTURE (CKTS AS INDICATED ON THIS DRAWING)



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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

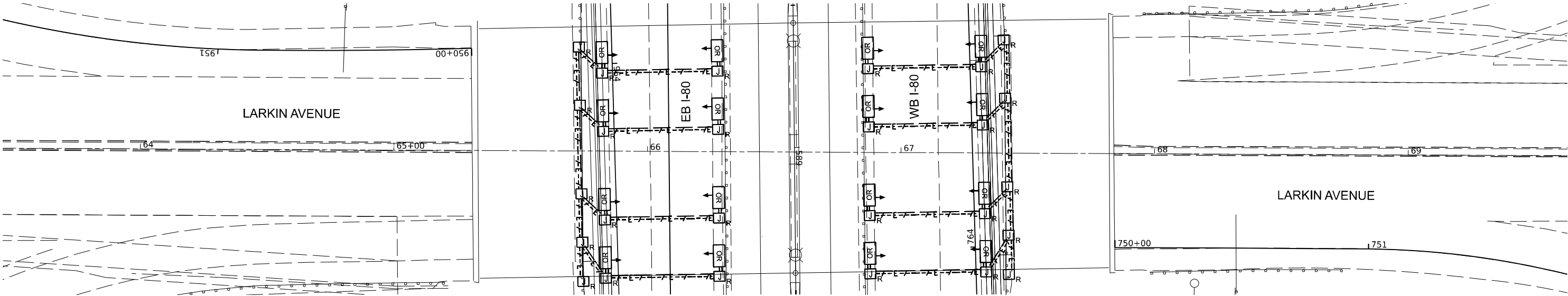
I-80 OVER JOLIET JUNCTION TRAIL UNDERPASS LIGHTING PLAN

SCALE: 1"=20'      SHEET 28 OF 51 SHEETS      STA.      TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 22 BR	WILL	1201	526
CONTRACT NO. 62R89				
ILLINOIS FED. AID PROJECT				

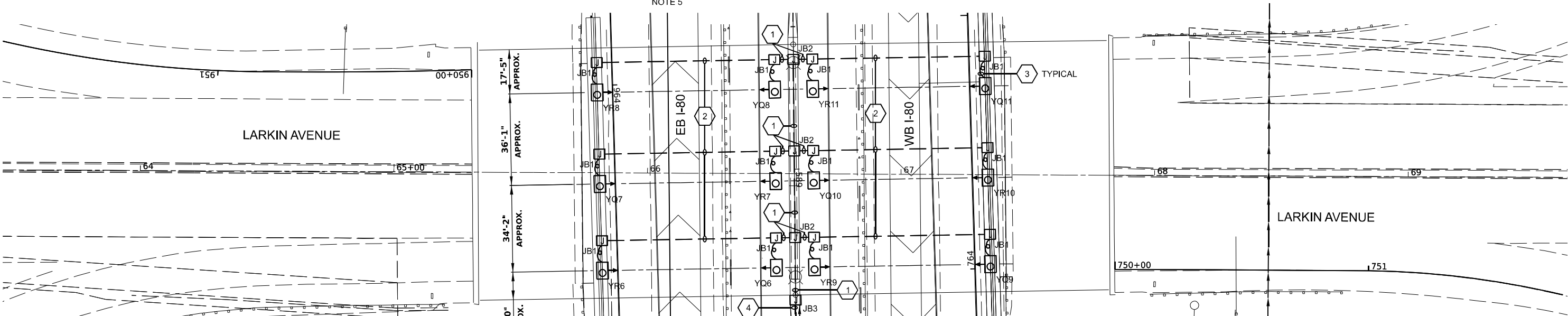


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### EXISTING UNDERPASS LIGHTING PLAN

NOTE 5



### PROPOSED UNDERPASS LIGHTING PLAN

NOTE 3

### NOTES

- SEE DRAWING LT-01 FOR IDOT ELECTRICAL SYMBOLS.
- SEE IDOT STANDARD DRAWING BE-901 FOR ADDITIONAL INSTALLATION DETAILS FOR PROPOSED SUSPENDED MOUNT UNDERPASS LUMINAIRES.
- ALL PROPOSED UNDERPASS LIGHTING UNITS SHOWN ON THIS DRAWING WILL BE FED FROM IDOT LIGHTING CONTROLLER 'Y'.
- PROVIDE 30A FUSES IN THE JUNCTION BOX FOR SPLICING THE NO. 10 UNDERPASS LIGHTING WIRES TO THE NO. 2 LIGHTING CIRCUITS WIRES. SEE LIGHTING DETAILS DRAWING FOR TYPICAL UNDERPASS LIGHTING UNIT WIRING DIAGRAM.
- THE REMOVAL OF THE EXISTING UNDERPASS LIGHTING UNITS WILL INCLUDE THE REMOVAL OF ALL ASSOCIATED CONDUIT, WIRE, JUNCTION BOXES, HARDWARE AND APPURTENANT MATERIALS IN ACCORDANCE WITH SECTION 842 OF THE STANDARD SPECIFICATIONS.
- ROUTE CONDUIT AND LIGHTING CABLES FROM JUNCTION BOX ATTACHED TO PIER STRUCTURE TO JUNCTION BOX EMBEDDED IN DOUBLE FACED BARRIER WALL SHOWN ON DRAWING LT-23.
- EXISTING UNDERPASS LUMINAIRES REMOVED SHALL NOT BE SALVAGED AND SHALL BE DISPOSED OF ACCORDING TO ARTICLE 202.03.

 LED UNDERPASS LUMINAIRE OUTPUT DESIGNATION D

UNDERPASS LUMINAIRE TABLE EB I-80 (CONTROLLER 'Y')				
LUMINAIRE	BASELINE	STATION & OFFSET	NOTES	MOUNTING
YR6	LARKIN	STA. 65+82.4, 38.6 RT	NOTE 3	SUSPENDED
YQ6	LARKIN	STA. 66+51.1, 37.1 RT	NOTE 3	SUSPENDED
YR7	LARKIN	STA. 66+50.6, 2.9 RT	NOTE 3	SUSPENDED
YQ7	LARKIN	STA. 65+81.3, 4.4 RT	NOTE 3	SUSPENDED
YR8	LARKIN	STA. 65+80.0, 31.6 LT	NOTE 3	SUSPENDED
YQ8	LARKIN	STA. 66+50.1, 33.1 LT	NOTE 3	SUSPENDED

NOTE: CENTERING THE UNDERPASS LUMINAIRES BETWEEN THE STRUCTURAL BEAMS TAKES PRECEDENCE OVER THE STATION AND OFFSET PROVIDED IN THE TABLE.

JUNCTION BOX SCHEDULE		
NO.	SIZE	DESCRIPTION
JB1	6"X6"X4"	STAINLESS STEEL, ATTACHED TO STRUCTURE, UNDERPASS LIGHTING
JB2	12"X10"X6"	STAINLESS STEEL, ATTACHED TO STRUCTURE, UNDERPASS LIGHTING
JB3	18"X18"X8"	STAINLESS STEEL, ATTACHED TO STRUCTURE, UNDERPASS LIGHTING

CABLE / CONDUIT SCHEDULE	
1	3-1/C#10, 1-1/C#10 GND IN 1" DIA PVCC RGC ATTACHED TO STRUCTURE (CKTS AS INDICATED ON THIS DRAWING)
2	2-1/C#10, 1-1/C#10 GND IN 1" DIA PVCC RGC ATTACHED TO STRUCTURE (CKTS AS INDICATED ON THIS DRAWING)
3	2-1/C#10, 1-1/C#10 GND IN 3/4" DIA LIQUID TIGHT FLEXIBLE CONDUIT (CKTS AS INDICATED ON THIS DRAWING)
4	3-1/C#2, 1-1/C#4 GND IN 3" DIA PVCC RGC ATTACHED TO STRUCTURE (CKTS AS INDICATED ON THIS DRAWING)

UNDERPASS LUMINAIRE TABLE WB I-80 (CONTROLLER 'Y')				
LUMINAIRE	BASELINE	STATION & OFFSET	NOTES	MOUNTING
YR9	LARKIN	STA. 66+66.1, 36.8 RT	NOTE 3	SUSPENDED
YQ9	LARKIN	STA. 67+35.4, 35.3 RT	NOTE 3	SUSPENDED
YR10	LARKIN	STA. 67+34.3, 1.1 RT	NOTE 3	SUSPENDED
YQ10	LARKIN	STA. 66+65.6, 2.6 RT	NOTE 3	SUSPENDED
YR11	LARKIN	STA. 66+65.1, 33.5 LT	NOTE 3	SUSPENDED
YQ11	LARKIN	STA. 67+33.0, 34.9 LT	NOTE 3	SUSPENDED

NOTE: CENTERING THE UNDERPASS LUMINAIRES BETWEEN THE STRUCTURAL BEAMS TAKES PRECEDENCE OVER THE STATION AND OFFSET PROVIDED IN THE TABLE.



SCALE IN FEET

**AECOM**

303 EAST WACKER DRIVE, SUITE 1400  
CHICAGO, IL 60602-5276  
PHONE: (312) 373-7700 FAX: (312) 373-6800

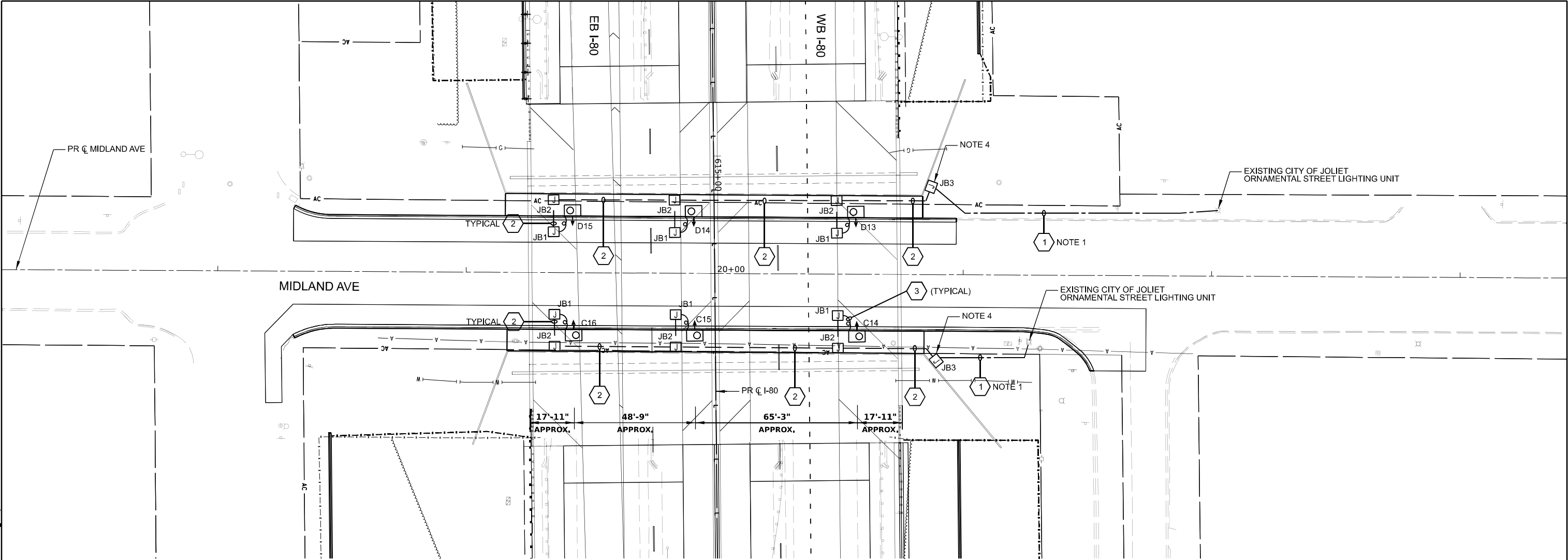
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PLOT DATE = 10/5/2023	DATE - 10/6/23	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**LARKIN AVENUE OVER I-80 UNDERPASS LIGHTING PLAN**

SCALE: 1"=20' SHEET 29 OF 51 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 22 BR	WILL	1201	527
CONTRACT NO. 62R89				
ILLINOIS FED. AID PROJECT				



PROPOSED UNDERPASS LIGHTING PLAN

NOTE 3

NOTES

1. SEE DRAWING LT-01 FOR IDOT ELECTRICAL SYMBOLS.
2. SEE IDOT STANDARD DRAWING BE-901 FOR ADDITIONAL INSTALLATION DETAILS FOR PROPOSED SUSPENDED MOUNT UNDERPASS LUMINAIRES.
3. ALL PROPOSED UNDERPASS LIGHTING UNITS SHOWN ON THIS DRAWING WILL BE FED FROM THE EXISTING CITY OF JOLIET LIGHTING CONTROLLER LOCATED ON THE SOUTHEAST CORNER OF MORGAN STREET AND MIDLAND AVENUE.
4. PROVIDE 30A FUSES IN THE JUNCTION BOX FOR SPLICING THE NO. 10 UNDERPASS LIGHTING WIRES TO THE NO. 4 LIGHTING CIRCUITS WIRES.
5. ROUTE THE PROPOSED UNIT DUCT INTO THE BASE OF THE EXISTING CITY OF JOLIET ORNAMENTAL LIGHTING UNIT THROUGH THE EXISTING FOUNDATION CONDUIT SLEEVE AND SPLICE THE PROPOSED LIGHTING CABLES TO THE EXISTING LIGHTING CABLES IN THE BASE OF THE LIGHTING UNIT.

LED UNDERPASS LUMINAIRE  
OUTPUT DESIGNATION D

UNDERPASS LUMINAIRE TABLE (CITY OF JOLIET LIGHTING CONTROLLER)				
LUMINAIRE	BASELINE	STATION & OFFSET	NOTES	MOUNTING
D13	MIDLAND	STA. 20+56.6, 25.1 LT	NOTE 3	SUSPENDED
D14	MIDLAND	STA. 19+91.4, 25.0 LT	NOTE 3	SUSPENDED
D15	MIDLAND	STA. 19+42.6, 25.0 LT	NOTE 3	SUSPENDED

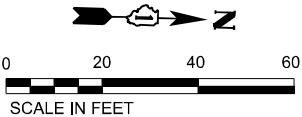
NOTE: CENTERING THE UNDERPASS LUMINAIRES BETWEEN THE STRUCTURAL BEAMS TAKES PRECEDENCE OVER THE STATION AND OFFSET PROVIDED IN THE TABLE.

JUNCTION BOX SCHEDULE		
NO.	SIZE	DESCRIPTION
JB1	6"X6"X4"	STAINLESS STEEL, ATTACHED TO STRUCTURE, UNDERPASS LIGHTING
JB2	12"X10"X6"	STAINLESS STEEL, ATTACHED TO STRUCTURE, UNDERPASS LIGHTING
JB3	18"X18"X8"	STAINLESS STEEL, ATTACHED TO STRUCTURE, UNDERPASS LIGHTING

CABLE / CONDUIT SCHEDULE	
1	2-1/C#4, 1/C#6 GND IN 1-1/4" UNIT DUCT
2	2-1/C#10, 1-1/C#10 GND IN 1" DIA PVCC RGC ATTACHED TO STRUCTURE
3	2-1/C#10, 1-1/C#10 GND IN 3/4" DIA LIQUID TIGHT FLEXIBLE CONDUIT

UNDERPASS LUMINAIRE TABLE (CITY OF JOLIET LIGHTING CONTROLLER)				
LUMINAIRE	BASELINE	STATION & OFFSET	NOTES	MOUNTING
C14	MIDLAND	STA. 20+57.4, 25.0 RT	NOTE 3	SUSPENDED
C15	MIDLAND	STA. 19+92.1, 25.0 RT	NOTE 3	SUSPENDED
C16	MIDLAND	STA. 19+43.4, 25.1 RT	NOTE 3	SUSPENDED

NOTE: CENTERING THE UNDERPASS LUMINAIRES BETWEEN THE STRUCTURAL BEAMS TAKES PRECEDENCE OVER THE STATION AND OFFSET PROVIDED IN THE TABLE.



AECOM

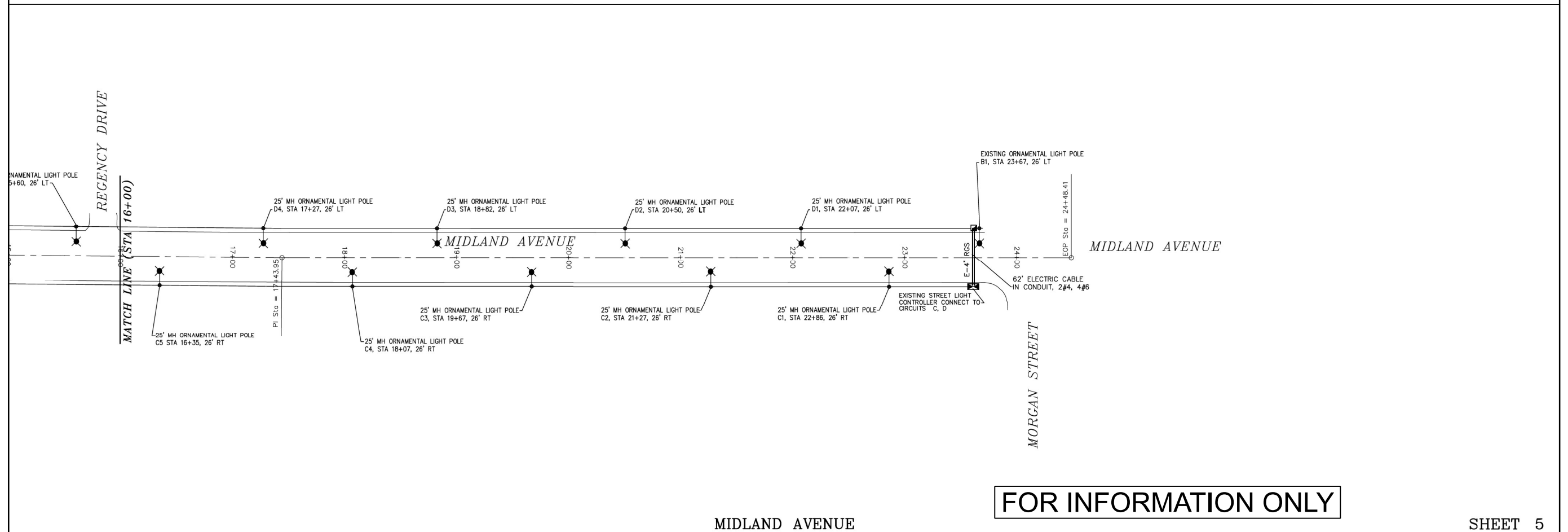
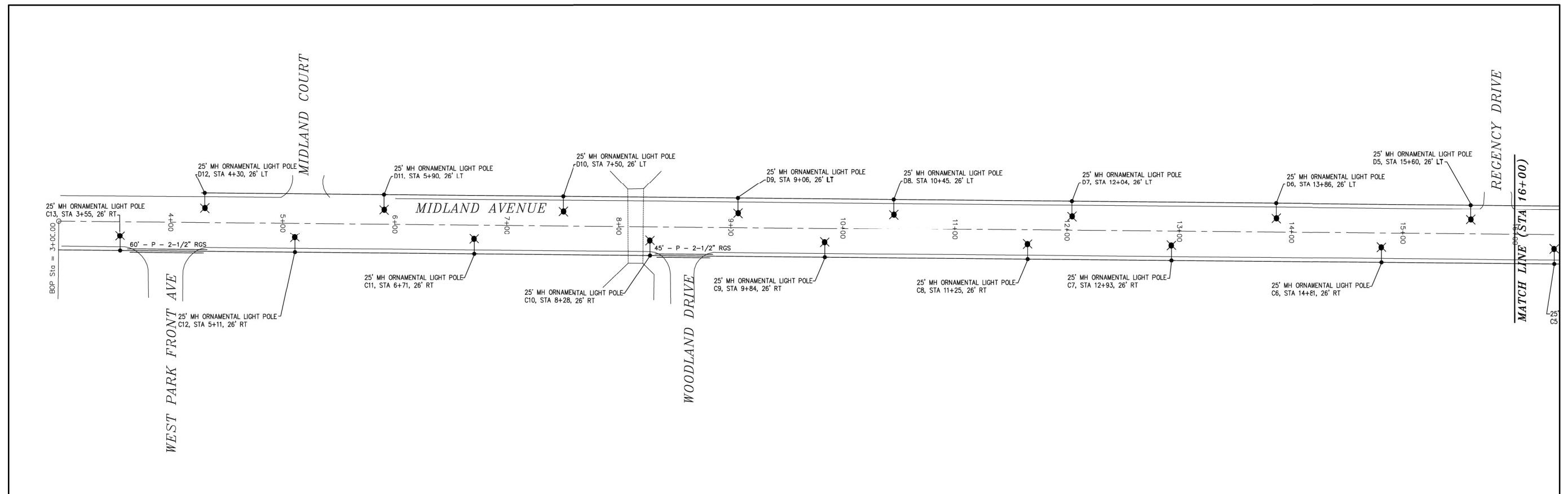
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PLOT DATE = 10/5/2023	DATE - 10/6/23	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

I-80 OVER MIDLAND AVENUE  
UNDERPASS LIGHTING PLAN

SCALE: 1"=20' SHEET 30 OF 51 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 22 BR	WILL	1201	528
CONTRACT NO. 62R89				
ILLINOIS FED. AID PROJECT				



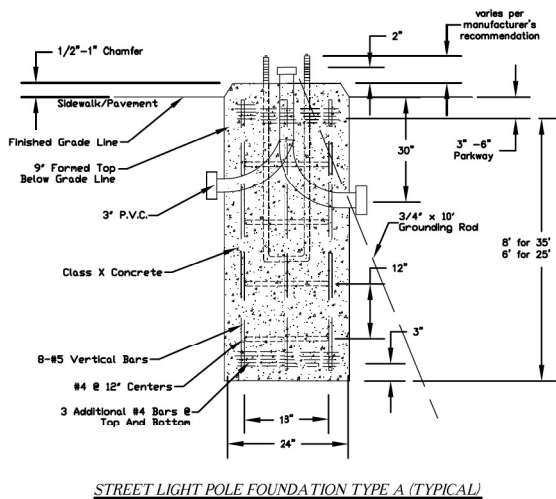
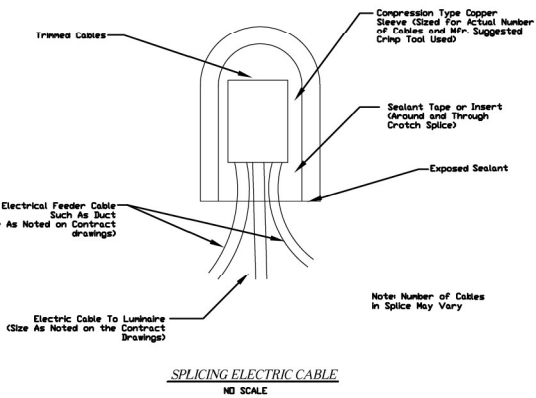
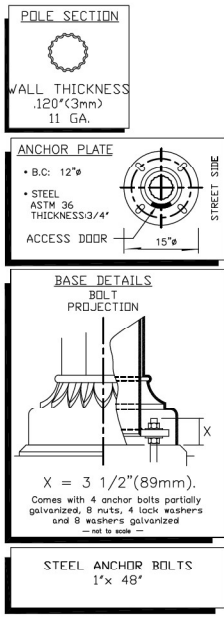
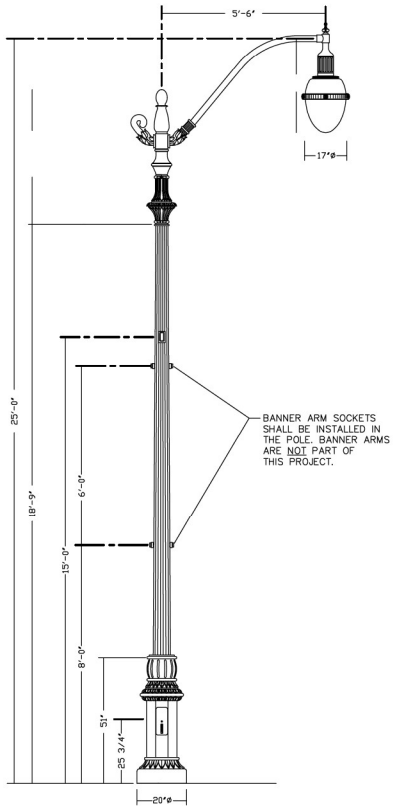
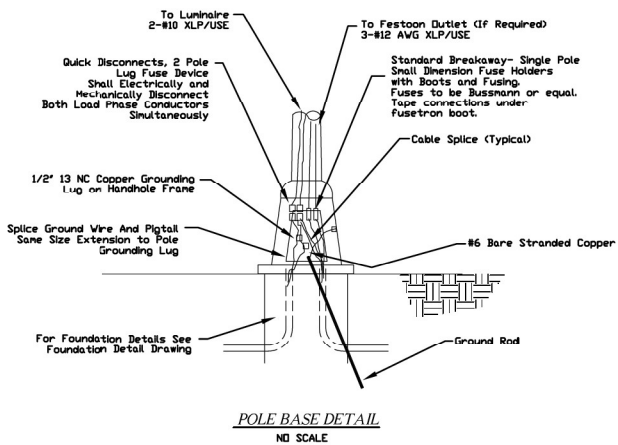
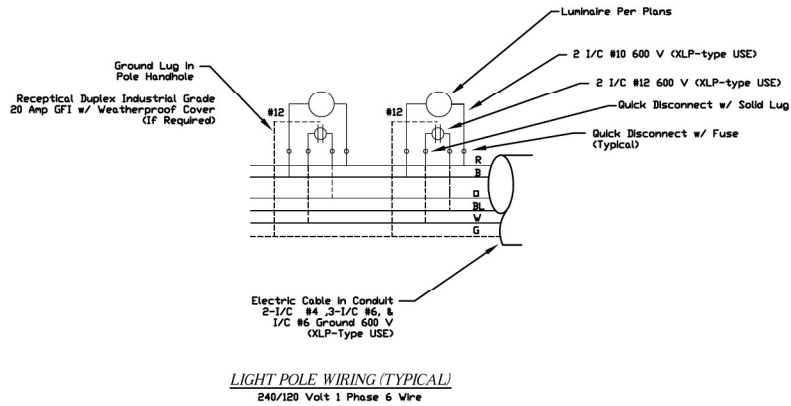
FOR INFORMATION ONLY

SHEET 5

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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 22 BR	WILL	1201	529
		CONTRACT NO. 62R89		
ILLINOIS		FED. AID PROJECT		

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### GENERAL NOTES

The contractor shall submit detailed shop drawings or catalog cuts for all equipment & materials to the City of Joliet for approval prior to fabrication or installation. Failure to submit and approve material may result in unaccepted work and/or reinstallation.

The streetlight system shall be installed in accordance to the most current addition of the "District One Recurring Special Provisions for Roadway Lighting", the "National Electric Code" and "AASHTO".

All conductors shall be copper with a XLP/USE insulation rating.

The contractor shall provide the service connection & meter assembly for Commonwealth Edison. All coordination shall be the responsibility of the contractor.

The electrical meter shall be installed on the side of the controller opposite that of oncoming traffic.

Two raceways or conduits shall be provided for each streetlight foundation. A junction of three raceways or conduits shall utilize a handhole.

Prior to beginning construction, the contractor shall contact the City of Joliet Electrical Division at (815)724-3661 to arrange an onsite project meeting. Confirmation of all approved materials and addressing any final questions shall take place at this time.

Foundation inspections will be required prior to pouring.

All conduit between streetlight controller and service connection shall be rigid galvanized steel conduit.

Waterproof inline fuses (5Amp) are to be installed at the streetlight transformer base.

**CITY OF JOLIET** DEPARTMENT OF PUBLIC WORKS  
921 E. WASHINGTON STREET, JOLIET, ILLINOIS 60433

*Street Lighting Standards*  
*Pole, Foundation, Wiring, and Conduit Details*

DESIGNED BY: **RAL**  
DRAWN BY: **RJH**

CHECKED BY: **JRT**  
DATE: **JULY 2003**

SCALE: **NONE**  
SHEET **6**

**AECOM**  
303 EAST WACKER DRIVE, SUITE 1400  
CHICAGO, IL 60601-5276  
PHONE: (312) 373-7700 FAX: (312) 373-6000

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DATE - 10/6/23

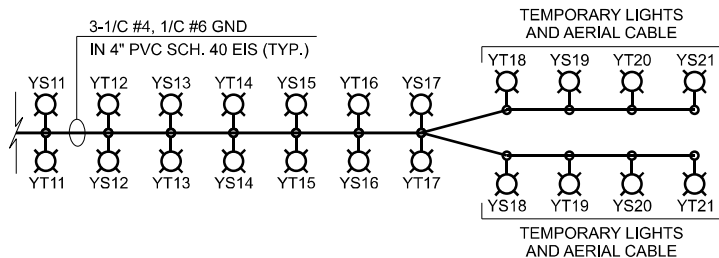
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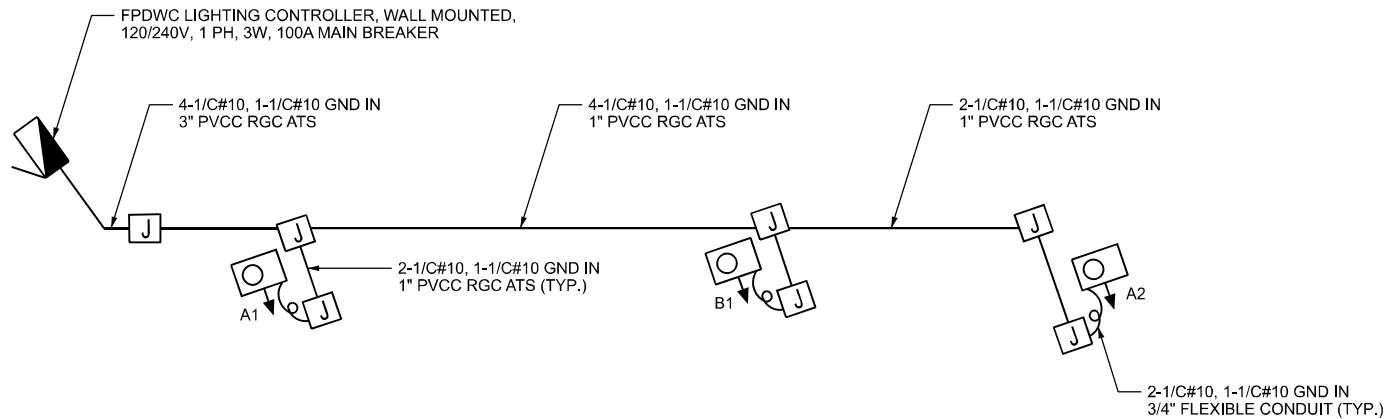
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**EXISTING CITY OF JOLIET MIDLAND AVENUE LIGHTING**

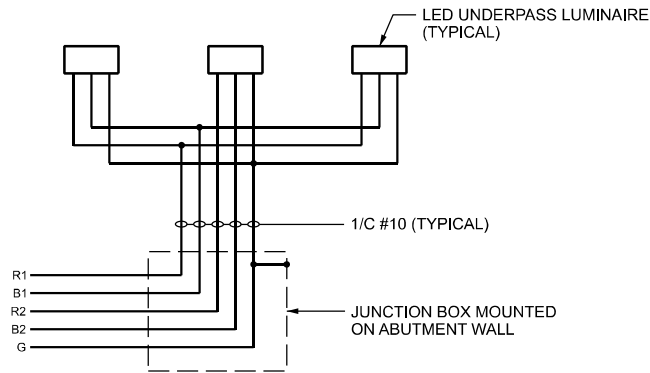
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 22 BR	WILL	1201	530
CONTRACT NO. 62R89				
ILLINOIS FED. AID PROJECT				

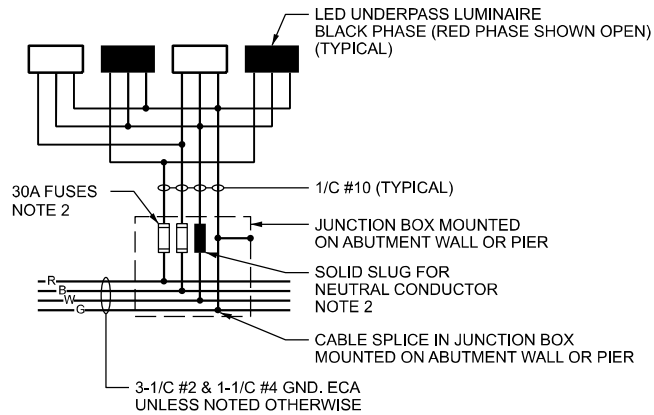




**JOLIET JUNCTION TRAIL (JJT) WIRING DIAGRAM**  
MAINTAINED BY FOREST PRESERVE DISTRICT OF WILL COUNTY (FPDWC)



**JOLIET JUNCTION TRAIL UNDERPASS LIGHTING UNIT WIRING DIAGRAM**  
NOT TO SCALE



**TYPICAL IDOT UNDERPASS LIGHTING UNIT WIRING DIAGRAM**  
NOT TO SCALE

- NOTES:**
- SEE DRAWING LT-01 FOR IDOT ELECTRICAL SYMBOLS.
  - THE FUSES, FUSE HOLDERS, AND SOLID SLUGS SHALL BE PROVIDED ACCORDING TO ARTICLE 1065.01 OF THE IDOT STANDARDS. THE COST OF PROVIDING THE FUSES, FUSE HOLDERS, AND SOLID SLUGS IN THE JUNCTION BOX WILL NOT BE PAID FOR SEPARATELY AND WILL BE INCLUDED IN THE COST OF THE JUNCTION BOX IN WHICH THEY ARE INSTALLED.

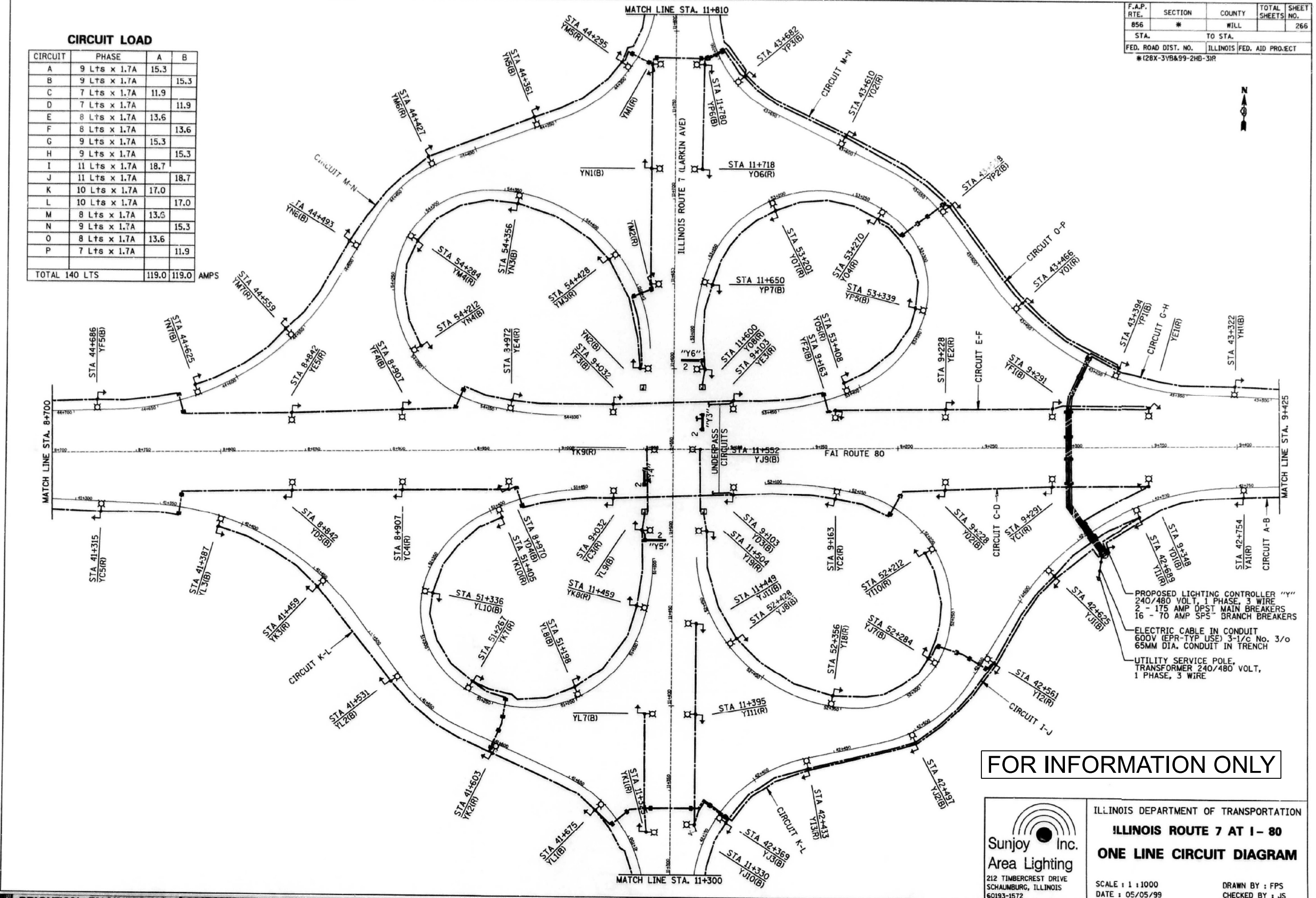
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PLOT DATE = 10/5/2023	DATE - 10/6/23	REVISED -

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 22 BR	WILL	1201	532
CONTRACT NO. 62R89				
ILLINOIS FED. AID PROJECT				

Circuit Load table with columns: CIRCUIT, PHASE, A, B. Rows A through P, plus a TOTAL row. Values include load types like 9 Lts x 1.7A and total amperage of 119.0.

Project information table with columns: F.A.P. RTE., SECTION, COUNTY, TOTAL SHEETS, SHEET NO., STA., TO STA., FED. ROAD DIST. NO., ILLINOIS, FED. AID PROJECT. Values include 856, #, WILL, 266, and project details.



PROPOSED LIGHTING CONTROLLER "Y"  
240/480 VOLT, 1 PHASE, 3 WIRE  
2 - 175 AMP OPST MAIN BREAKERS  
16 - 70 AMP SP5- BRANCH BREAKERS  
ELECTRIC CABLE IN CONDUIT  
600V (EPR-TYP USE) 3-1/c No. 3/0  
65MM DIA. CONDUIT IN TRENCH  
UTILITY SERVICE POLE,  
TRANSFORMER 240/480 VOLT,  
1 PHASE, 3 WIRE

FOR INFORMATION ONLY

Sunjoy Inc. Area Lighting logo and project title: ILLINOIS DEPARTMENT OF TRANSPORTATION, ILLINOIS ROUTE 7 AT I-80, ONE LINE CIRCUIT DIAGRAM. Includes scale (1:1000), date (05/05/99), and drawing/checking names.



Revision table with columns: USER NAME, DESIGNED, DRAWN, CHECKED, DATE, REVISED. Includes user 'myersc' and dates 10/6/23 and 10/5/2023.

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EXISTING LARKIN CONTROLLER WIRING DIAGRAM  
SCALE: N.T.S. SHEET 35 OF 51 SHEETS STA. TO STA.

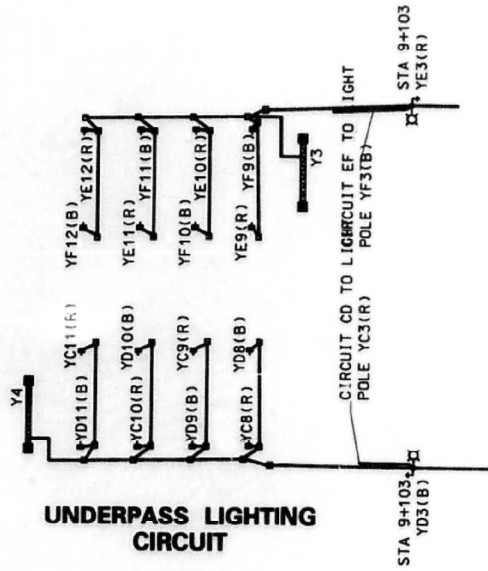
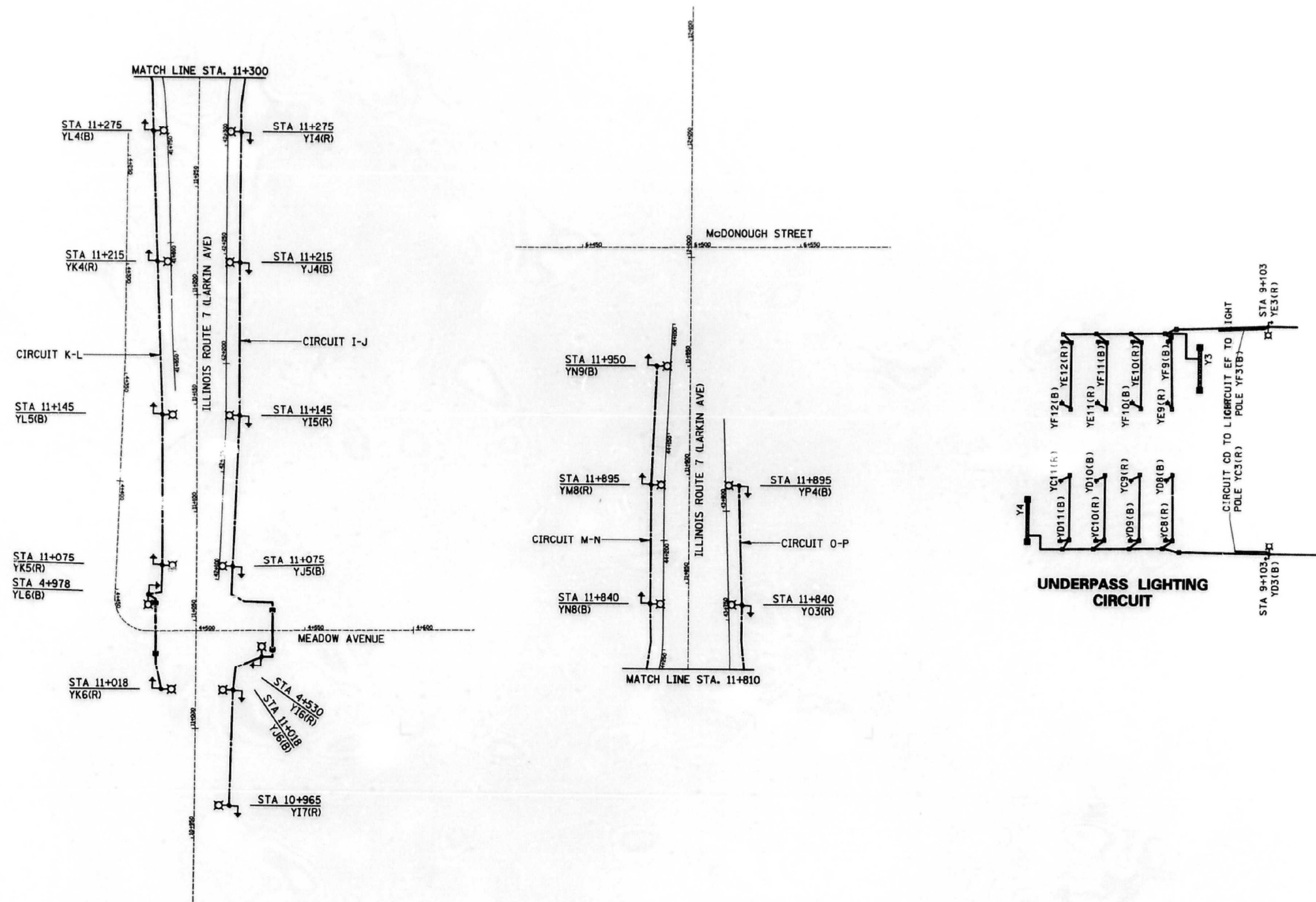
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
856	*	WILL		268
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
*(28X-3VBA.99-2HB-3)R				



FOR INFORMATION ONLY



ILLINOIS DEPARTMENT OF TRANSPORTATION  
ILLINOIS ROUTE 7 AT I-80  
**ONE LINE CIRCUIT DIAGRAM**

SCALE : 1 : 1000  
DATE : 05/05/99  
DRAWN BY : FPS  
CHECKED BY : JS



USER NAME = myersc	DESIGNED - TJL	REVISED -
DRAWN - CAM	REVISED -	
PLOT SCALE = 0.08333772 1/1 in.	CHECKED - MAE	REVISED -
PLOT DATE = 10/5/2023	DATE - 10/6/23	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

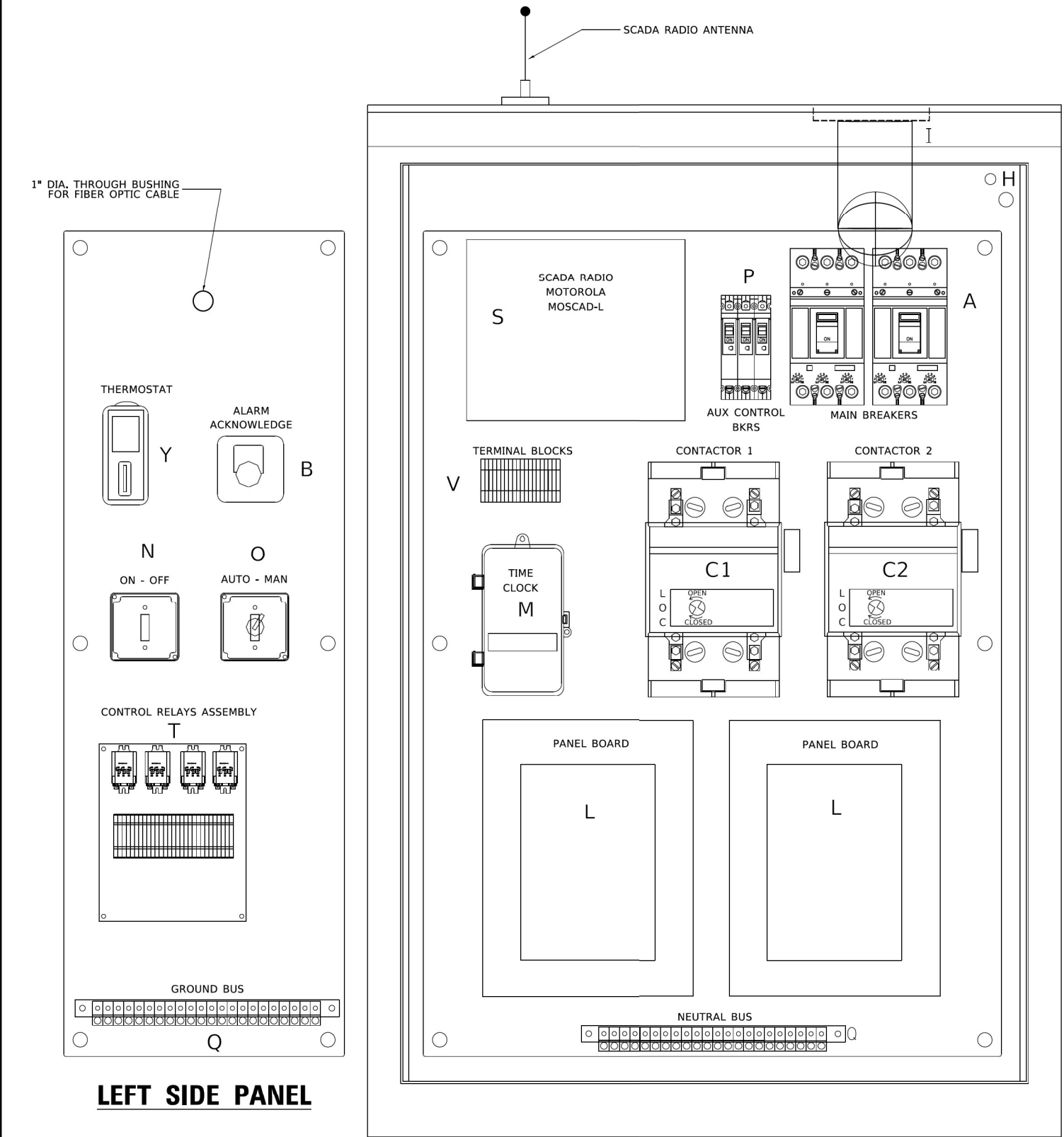
EXISTING LARKIN CONTROLLER WIRING DIAGRAM

SCALE: N.T.S. SHEET 37 OF 51 SHEETS STA. TO STA.

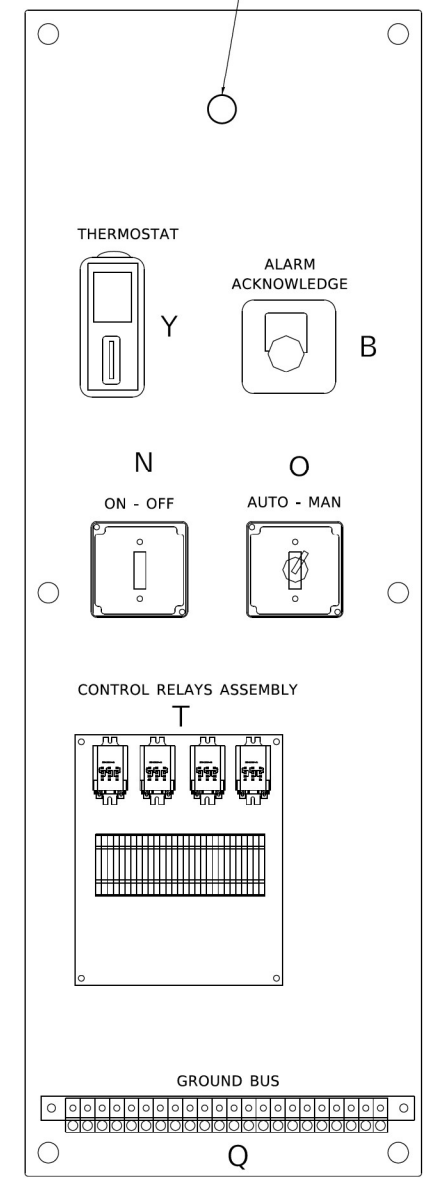
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 22 BR	WILL	1201	535
CONTRACT NO. 62R89				
ILLINOIS FED. AID PROJECT				

MODEL: Untitled-2 (Sheet)  
FILE NAME: P:\projects\transp\comp\p1\homedocuments\projects\_2018\CH401\401180022\02-TransSystemsCAD\62889\Sheets\21-Lighting\DI62889-S1T-LIGHT\_37.dgn

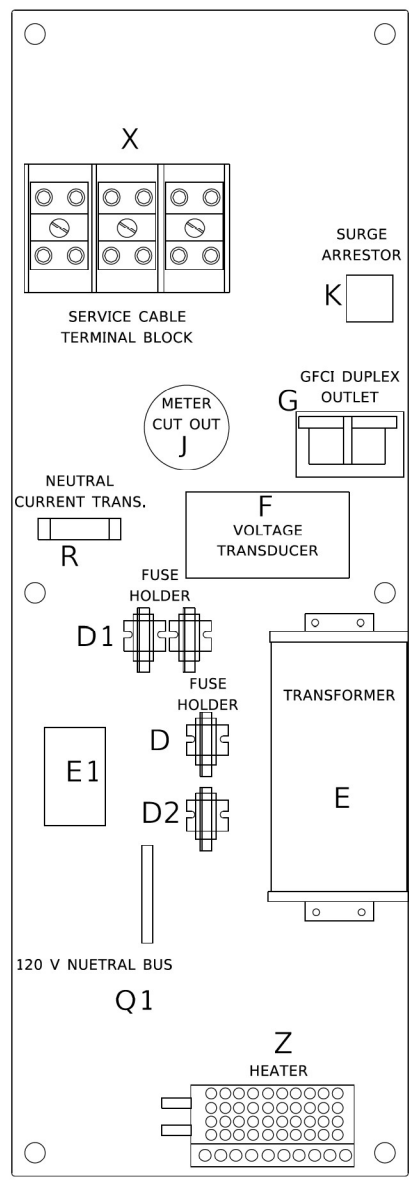
303 EAST WACKER DRIVE, SUITE 1400  
CHICAGO, IL 60601-5276  
PHONE: (312) 373-7700 FAX: (312) 373-6000



1" DIA. THROUGH BUSHING FOR FIBER OPTIC CABLE



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 - ½ 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 TRANSDUCER 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 TRANSDUCER
S	1	MOTOROLA MOSCAD-L 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 = leysa	DESIGNED - R. TOMSONS	REVISED - _____
	DRAWN - _____	REVISED - _____
	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 1	OF 4 SHEETS	STA. _____ TO STA. _____

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



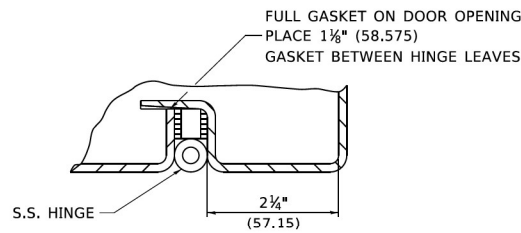
USER NAME = myersc	DESIGNED - TJL	REVISED - _____
	DRAWN - CAM	REVISED - _____
	CHECKED - MAE	REVISED - _____
	DATE - 10/6/23	REVISED - _____

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

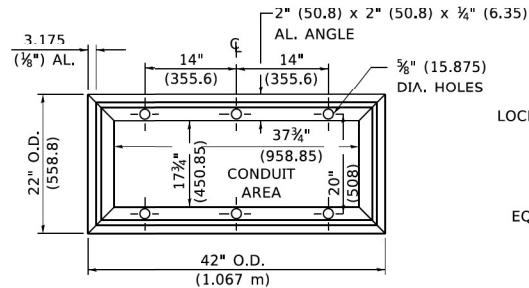
LIGHTING DETAILS			
SCALE: N.T.S.	SHEET 38	OF 51 SHEETS	STA. _____ TO STA. _____

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 22 BR	WILL	1201	536
ILLINOIS		FED. AID PROJECT		

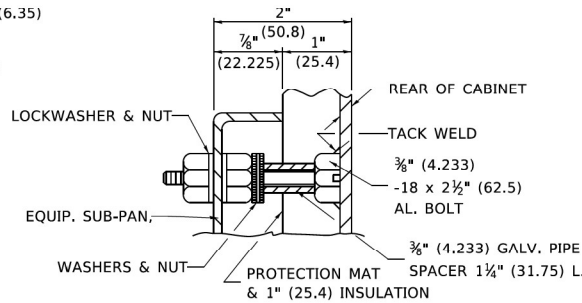




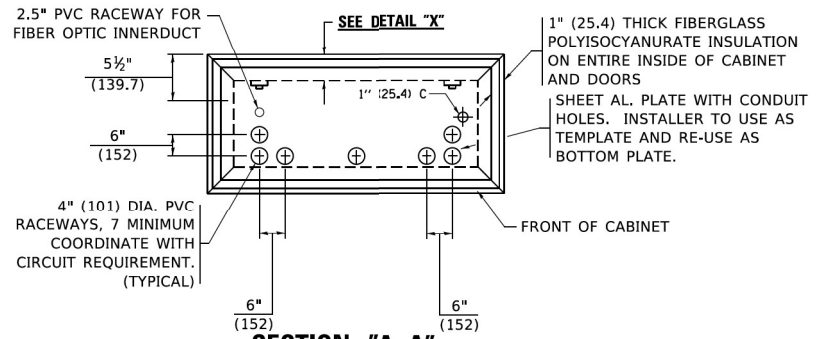
DETAIL "Y"



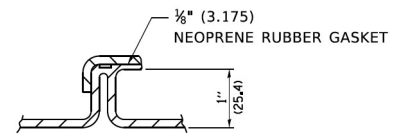
BASE MTG. DETAIL



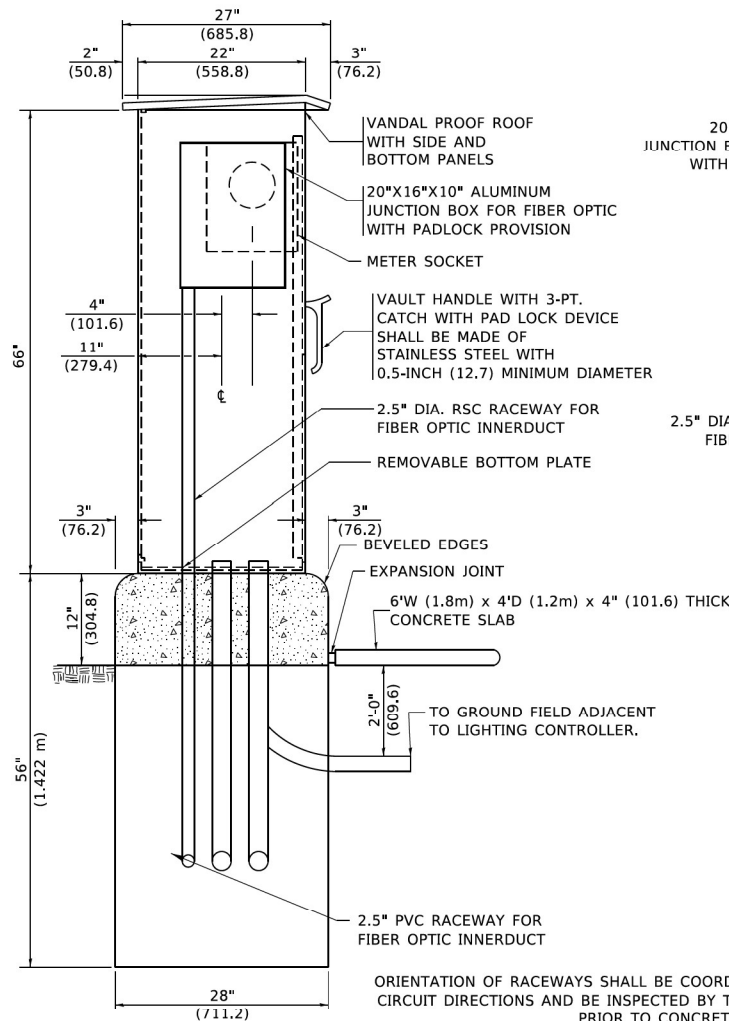
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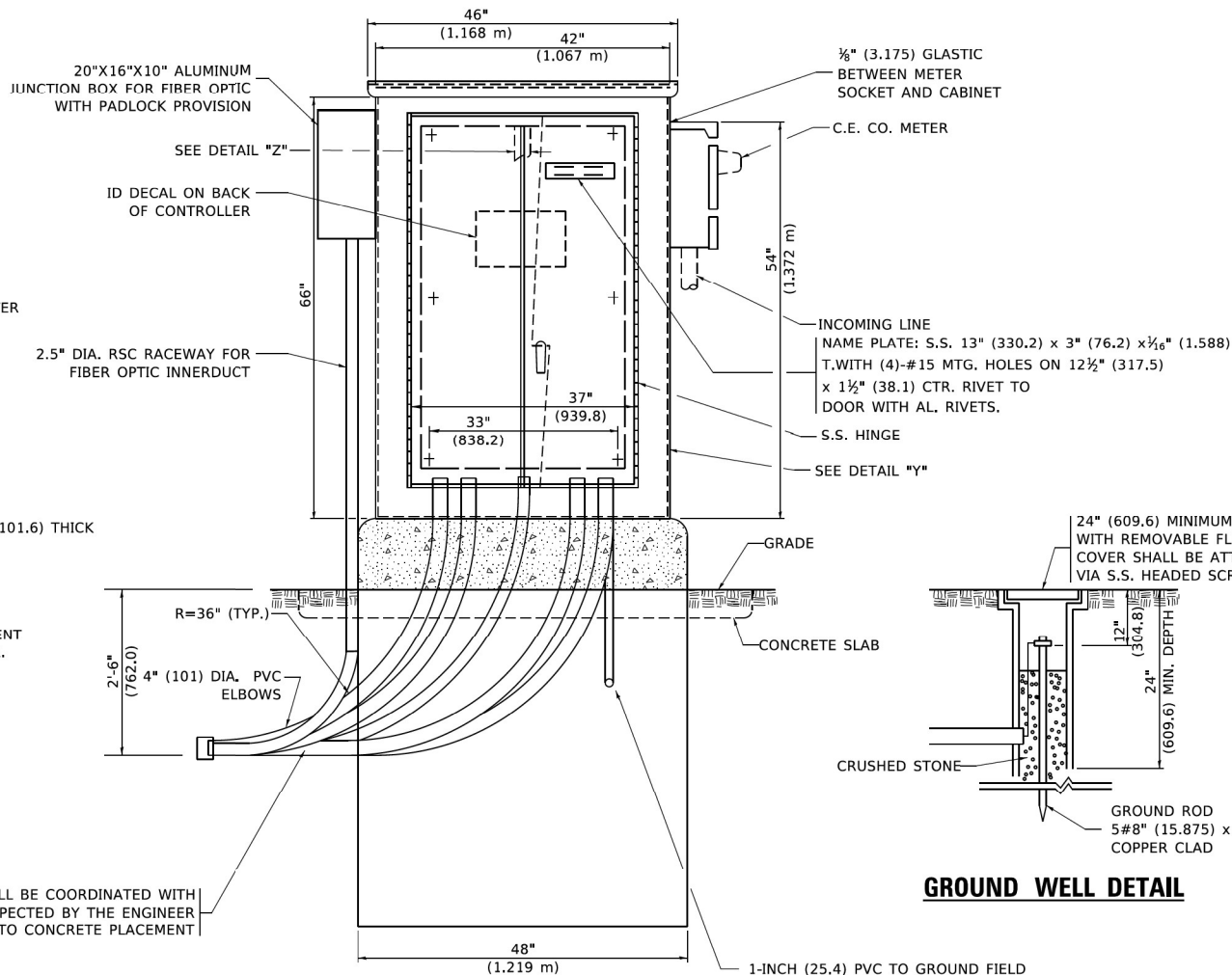
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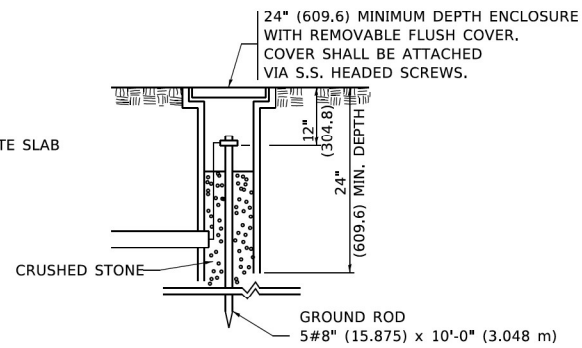
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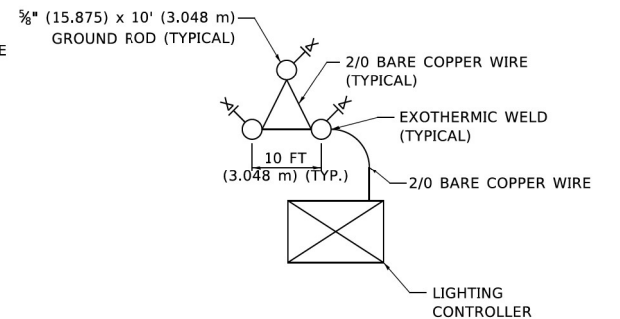
LEFT SIDE ELEVATION



FRONT ELEVATION



GROUND WELL DETAIL



GROUND FIELD DETAIL  
(N.T.S.)

THE CONTRACTOR SHALL  
VERIFY EXACT LOCATION  
WITH THE ENGINEER

MODEL: Untitled-2 (Sheet)  
FILE NAME: p:\projects\comp-pw-lighting\Documents\Projects\_2018\CH401\401180022\02-TransSystemsCAD\62889\Sheets\21-Lighting\0162889-SH-T-LIGHT\_40.dgn  
PROJECT: 01-15-2020  
USER: leysa  
DESIGNED: R. TOMSONS  
DRAWN: CAM  
CHECKED: MAE  
DATE: 01-15-2020  
PLOT SCALE: 50.0000' / in.  
PLOT DATE: 1/15/2020

USER NAME	= leysa	DESIGNED	- R. TOMSONS	REVISED	-
DRAWN	- CAM	CHECKED	-	REVISED	-
PLOT SCALE	= 50.0000' / in.	DATE	- 01-15-2020	REVISED	-
PLOT DATE	= 1/15/2020				

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.
I-80	FAI 80 22 BR	WILL	1201	538
BE-206				CONTRACT NO.
ILLINOIS				FED. AID PROJECT

**AECOM**  
303 EAST WACKER DRIVE, SUITE 1400  
CHICAGO, IL 60601-5276  
PHONE: (312) 373-7700 FAX: (312) 373-6800

USER NAME	= myersc	DESIGNED	- TJL	REVISED	-
DRAWN	- CAM	CHECKED	- MAE	REVISED	-
PLOT SCALE	= 0.08333772' / in.	DATE	- 10/6/23	REVISED	-
PLOT DATE	= 10/5/2023				

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

LIGHTING DETAILS

SCALE: N.T.S.	SHEET 40	OF 51 SHEETS	STA. TO STA.
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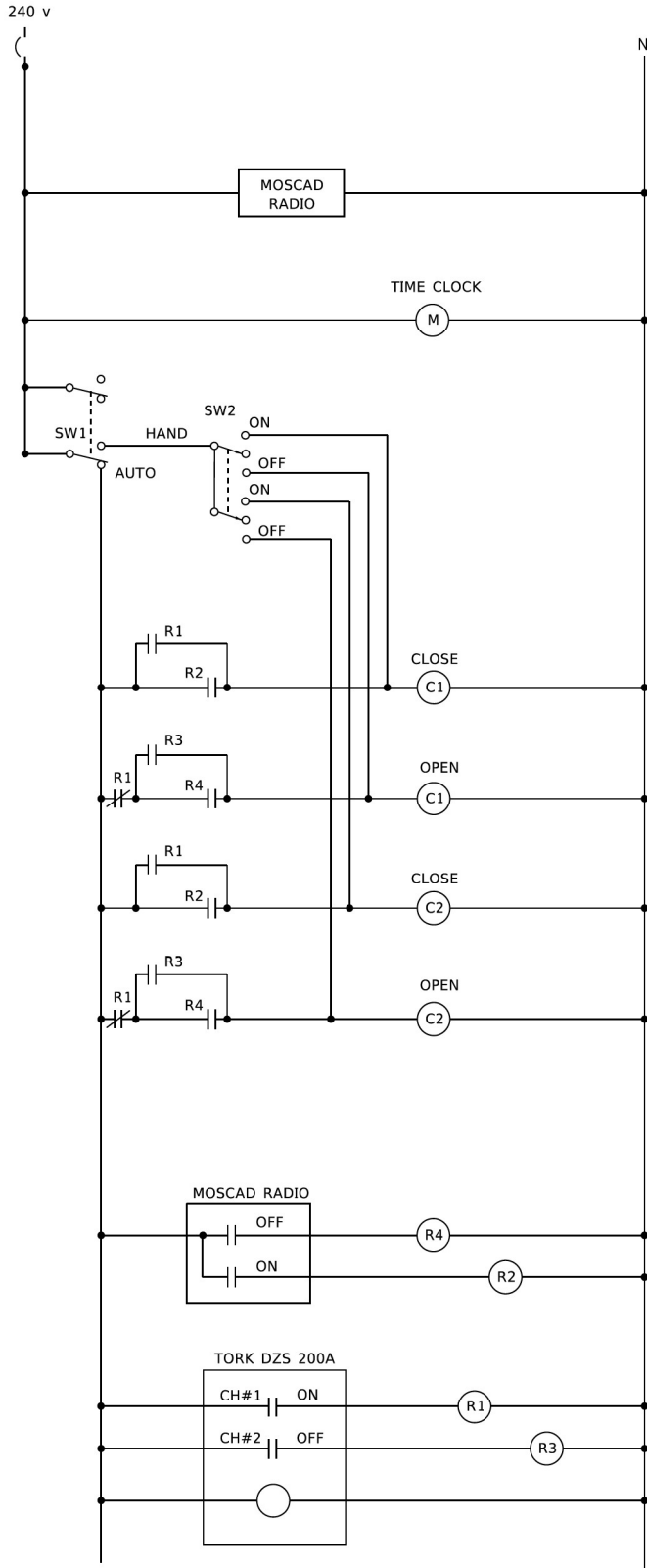
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 22 BR	WILL	1201	538
ILLINOIS				FED. AID PROJECT

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 I.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  
                G = 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 = leysa	DESIGNED - B. TOMSONS	REVISED - _____	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LIGHTING CONTROLLER, BASE MOUNTED, 480VOLT, 200AMP (DUAL) RADIO SCADA – FIBER OPTIC PROVISION				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - _____	REVISED - _____										
	PLOT SCALE = 50.0000 ' / in.	CHECKED - _____	REVISED - _____										
	PLOT DATE = 1/15/2020	DATE - 01-15-2020	REVISED - _____		BE-206					CONTRACT NO. _____			
	SCALE: NONE				SHEET 4	OF 4	SHEETS	STA. _____	TO STA. _____	ILLINOIS FED. AID PROJECT			

USER NAME = myersc	DESIGNED - TJL	REVISED - _____
	DRAWN - CAM	REVISED - _____
PLOT SCALE = 0.08333772 ' / in.	CHECKED - MAE	REVISED - _____
PLOT DATE = 10/5/2023	DATE - 10/6/23	REVISED - _____

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

LIGHTING DETAILS

SCALE: N.T.S. SHEET 41 OF 51 SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 22 BR	WILL	1201	539
CONTRACT NO. 62R89				
ILLINOIS FED. AID PROJECT				





	USER NAME    ■ footenj	DESIGNED   -	REVISED   -    04-22-02
		DRAWN       -	REVISED       -
	PLOT SCALE   ■ 50,000 ' / in.	CHECKED   -	REVISED       -
	PLOT DATE    ■ 4/19/2019	DATE         -	REVISED       -



3. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
2. THE ANCHOR RODS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IN PLACED.
3. THE FOUNDATION SHALL NOT PROJECT MORE THAN 100MM (4 IN.) ABOVE THE FINISHED GRADE WITHIN A 60 IN. (1.5 m) CHORD ACROSS THE FOUNDATION, WITH ANCHOR RODS INCLUDED, IN ACCORDANCE WITH AASHTO GUIDELINES. IF THE FOUNDATION HEIGHT, INCLUDING ANCHOR RODS, EXTENDS BEYOND THESE SPECIFIED LIMITS, THE FOUNDATION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. SEE FOUNDATION EXTENSION DETAIL.
4. THE HOLE FOR THE FOUNDATION SHALL BE MADE BY DRILLING WITH AN AUGER, OF THE SAME DIAMETER AS THE FOUNDATION, IF SOIL CONDITIONS REQUIRE THE USE OF A LINER TO FORM THE HOLE, THE LINER SHALL BE WITHDRAWN AS THE CONCRETE IS DEPOSITED.
5. THE TOP OF THE FOUNDATION SHALL BE CONSTRUCTED LEVEL, A LINER OR FORM SHALL BE USED TO PRODUCE A UNIFORM SMOOTH SIDE TO THE TOP OF THE FOUNDATION. FOUNDATION TOP SHALL BE CHAMFERED 3#4-IN. (20 mm).
6. THE CONCRETE SHALL BE CLASS SL. CONCRETE SHALL CURE ACCORDING TO ARTICLE 1020.13 BEFORE LIGHT POLES ARE INSTALLED.
7. THE ANCHOR ROD SHALL BE A HOOK ROD TYPE. COLD BENDING OF THE ANCHOR ROD WILL NOT BE ALLOWED, THE RADIUS OF THE HOOK BEND SHALL NOT BE LESS THAN 4 TIMES THE NOMINAL DIAMETER OF THE ANCHOR ROD. A TACK WELDED ANCHOR ROD MAY BE SUBSTITUTED WITH THE APPROVAL OF THE ENGINEER.
8. THE ANCHOR RODS SHALL BE ACCORDING TO ASTM F1554 GRADE 725 (GRADE 105). NUTS SHALL BE HEXAGON NUTS ACCORDING TO ASTM A 194 2H OR ASTM A 563 DH, AND WASHERS SHALL BE ACCORDING TO ASTM F 436.
9. ANCHOR RODS, NUTS AND WASHERS SHALL BE COMPLETELY GALVANIZED BY EITHER THE HOT-DIPPED PROCESS CONFORMING WITH ASTM A 1232, THE MECHANICAL PLATING METHOD CONFORMING TO AASHTO M 298, CLASS 50 WITH A MAXIMUM COATING THICKNESS OF 150 UM(6 MILS) OR THE ELECTROLYTIC PROCESS ACCORDING TO ASTM F 1136.
10. THE ANCHOR RODS SHALL BE THREADED A MINIMUM OF 6 INCHES (150 mm) WITH A MINIMUM OF 3 INCHES (75 mm) OF THREADED ANCHOR ROD EMBEDDED IN THE FOUNDATION.
11. ANCHOR RODS SHALL PROJECT 23#4" (699 mm) ABOVE THE TOP OF THE FOUNDATION, IF BREAKAWAY COUPLINGS ARE SPECIFIED, THE CONTRACTOR SHALL CAREFULLY COORDINATE THE ANCHOR ROD PROJECTION WITH THE INSTALLATION REQUIREMENTS OF THE BREAKAWAY COUPLINGS.
12. THE CONTRACTOR SHALL USE A #3 SPIRAL, AT 6" (152.4 mm) PITCH OR MAY SUBSTITUTE #3 TIES AT 12" (304.8 mm) O.C. WITH THE APPROVAL OF THE ENGINEER.
13. THE CABLE TRENCHES AND FOUNDATION SHALL BE BACK FILLED AND COMPACTED AS SPECIFIED BEFORE THE LIGHT POLE IS ERRECTED.
14. THE RACEWAYS SHALL PROJECT 1" (25.4 mm) ABOVE THE TOP OF THE FOUNDATION.

**AECOM**  
303 EAST WACKER DRIVE, SUITE 1400  
CHICAGO, IL 60601-5276  
PHONE: (312) 373-7700 FAX: (312) 373-6800

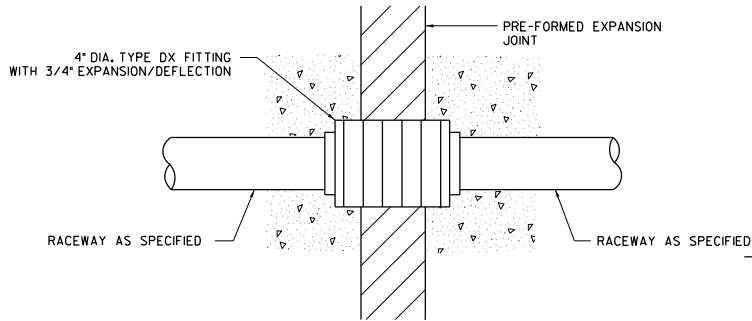
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

## LIGHTING DETAILS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 22 BR	WILL	1201	541
CONTRACT NO. 62R89				
ILLINOIS		FED. AID PROJECT		

NOTES:

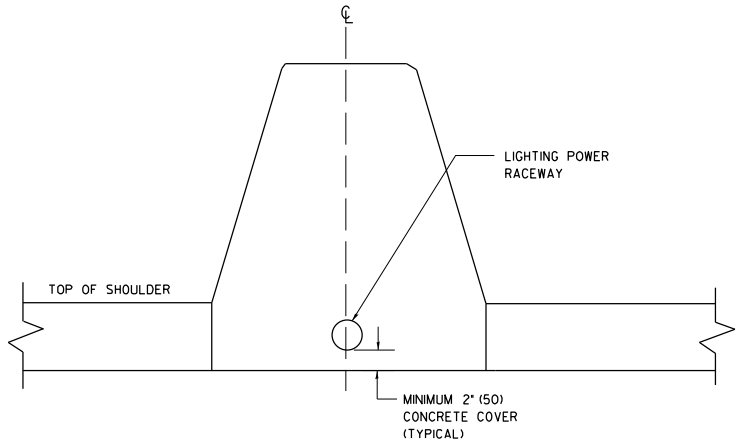
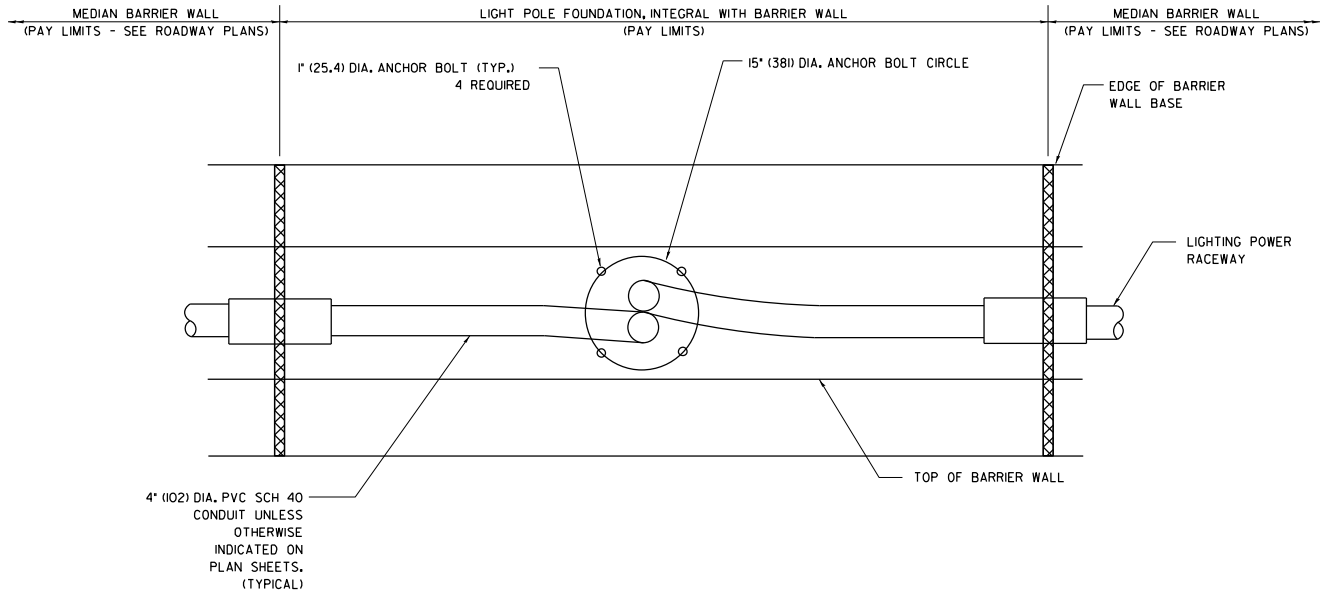
1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
2. THE ANCHOR BOLTS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IS PLACED IN THE FORMS.
3. THE CONTRACTOR AT HIS OPTION MAY SUBSTITUTE #4 (15 m) TIES AT 12" (304.8 m) CTRS. FOR THE #3 (3 m) SPIRAL. TACKWELDED TYPE BOLT MAY BE SUBSTITUTED FOR THE HOOK TYPE BOLT.
4. COLD BENDING OF THE HOOK BOLT SHALL NOT BE ALLOWED.
5. EXCAVATION FOR THE POLE FOUNDATION SHALL BE MADE WITH AN AUGER 24 INCHES (609.6 m) IN DIAMETER. ROCK EXCAVATION IF REQUIRED SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATIONS SECTION 502.
6. THE ENGINEER SHALL DETERMINE THE TYPE OF SOIL DURING EXCAVATION AND SELECT THE DESIGN DEPTH OF FOUNDATION FROM THE DESIGN TABLE USING THE DOMINANT CHARACTERISTIC OF THE SOIL ENCOUNTERED.
7. BARRIER WALL EXPANSION AND CONSTRUCTION JOINTS SHALL BE IN ACCORDANCE WITH STANDARD DETAIL 637006-05 AS APPLICABLE. SHAPE OF BARRIER TO MATCH ADJACENT BARRIER SECTIONS (TYPICAL OR VARIABLE HEIGHT).
8. ANCHOR RODS, NUTS, AND WASHERS SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATIONS ARTICLES 1070.02 AND 1006.09.



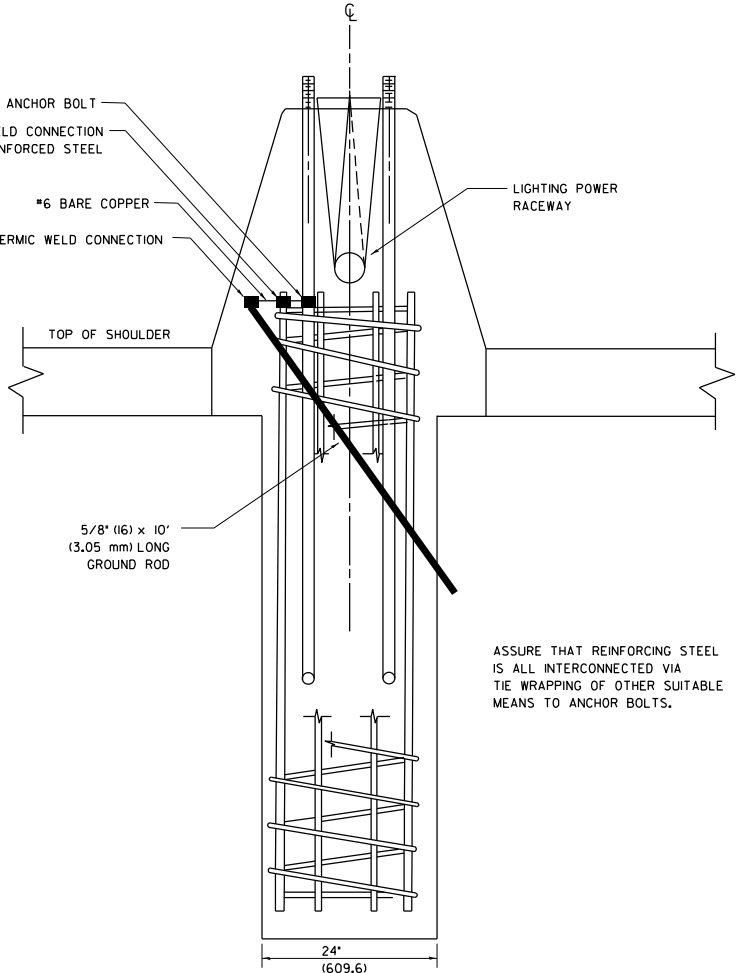
CONDUIT DEFLECTION FITTING DETAIL

FOUNDATION DEPTH

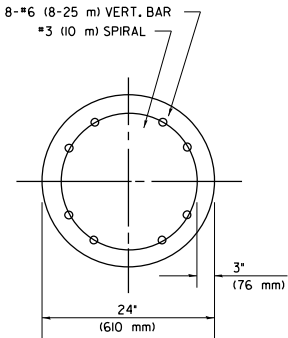
TYPE OF SOIL	FOUND DEPTH D	REINFORCEMENT IN FOUNDATION	
		VERTICAL BARS	SPIRAL
ROCK OR SOLIDIFIED SLAG	5'-0" (1.52 m)	NONE	NONE
DENSE SAND	7'-9" (2.36 m)	8-#6 x 9'-0" (8-20 m x 2.74 m)	#3 x 90' (3 m x 27.43 m)
MEDIUM SAND	8'-3" (2.51 m)	8-#6 x 9'-5" (8-20 m x 2.87 m)	#3 x 94' (3 m x 28.65 m)
LOOSE SAND	9'-0" (2.74 m)	8-#6 x 10'-2" (8-20 m x 3.09 m)	#3 x 100' (3 m x 30.48 m)
STIFF CLAY	7'-0" (2.13 m)	8-#6 x 10'-8" (8-20 m x 2.48 m)	#3 x 80' (3 m x 24.38 m)
MEDIUM CLAY	9'-6" (2.89 m)	8-#6 x 10'-8" (8-20 m x 3.25 m)	#3 x 104' (3 m x 31.69 m)
SOFT CLAY	13'-0" (3.96 m)	8-#6 x 14'-2" (8-20 m x 4.32 m)	#3 x 144' (3 m x 43.89 m)



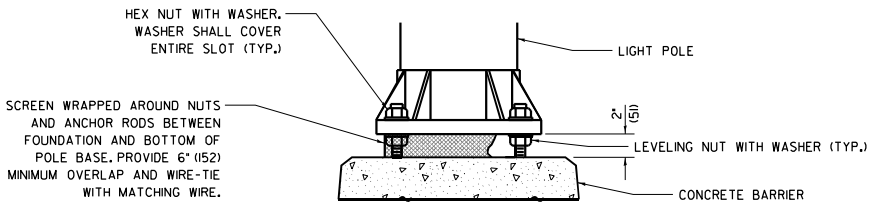
SECTION A-A



SECTION B-B



SECTION C-C



ELEVATION AT CONCRETE BARRIER

• ALL ANCHOR RODS AND REINFORCEMENT SHALL BE INCLUDED IN THE PAY ITEM "LIGHT POLE FOUNDATION, INTEGRAL WITH BARRIER WALL, 24" DIAMETER".

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

LIGHTING DETAILS  
24" (610 mm) DIA. LIGHT POLE FOUNDATION  
INTEGRAL WITH DOUBLE FACE BARRIER WALL

SCALE: N.T.S. SHEET 44 OF 51 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 22 BR	WILL	1201	542
CONTRACT NO. 62R89				
ILLINOIS FED. AID PROJECT				

**AECOM**

303 EAST WACKER DRIVE, SUITE 1400  
CHICAGO, IL 60601-2276  
PHONE: (312) 373-7700 FAX: (312) 373-6800

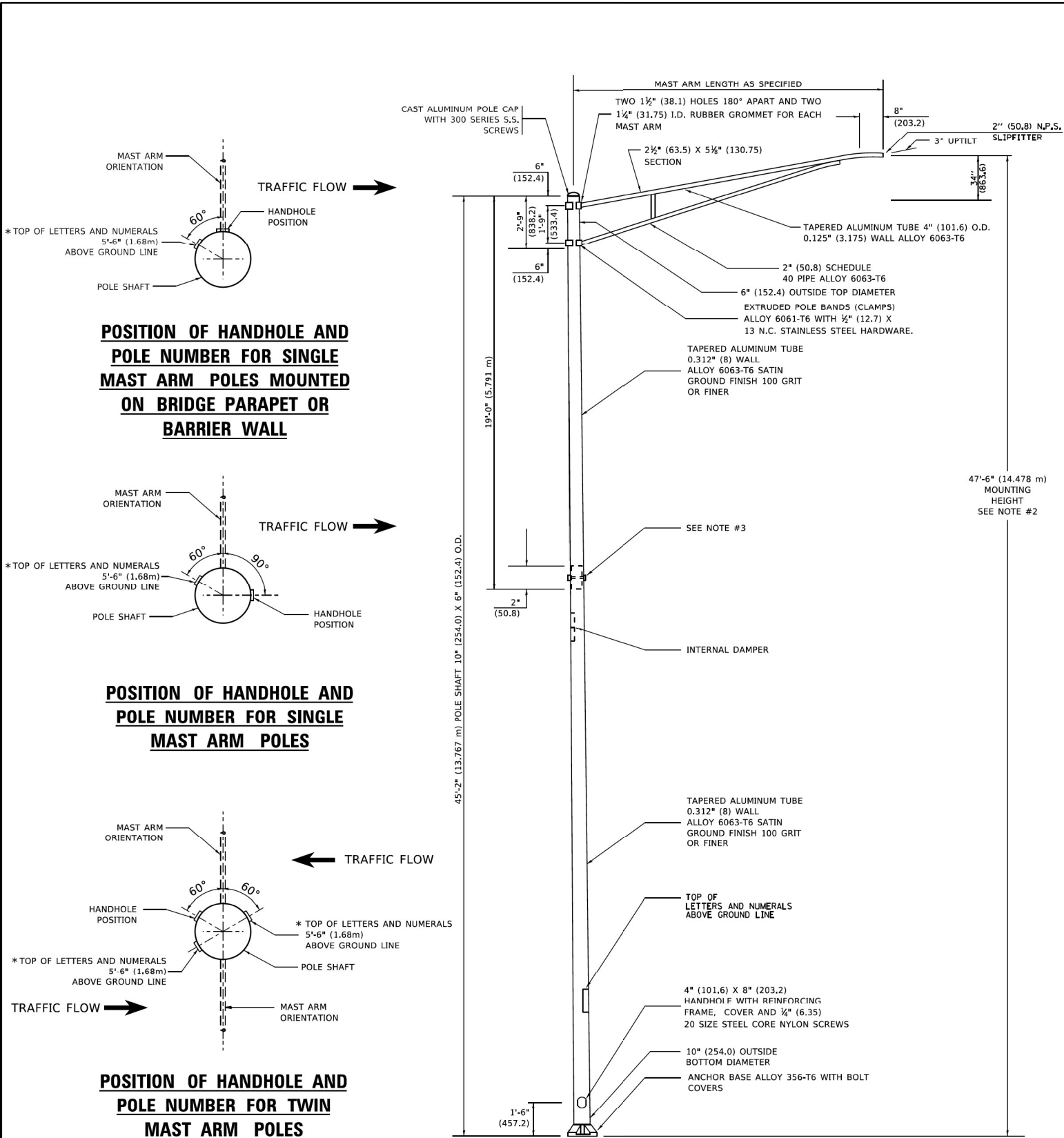
USER NAME	= myersc
PLOT SCALE	= 0.08333772 1/1 in.
PLOT DATE	= 10/5/2023

DESIGNED	- TJL
DRAWN	- CAM
CHECKED	- MAE
DATE	- 10/6/23

REVISED	-
REVISED	-
REVISED	-
REVISED	-

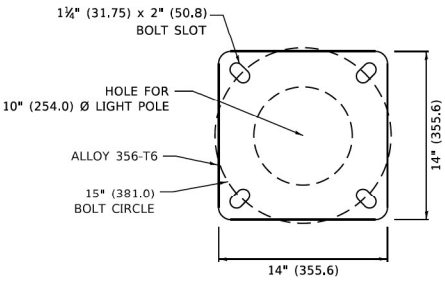
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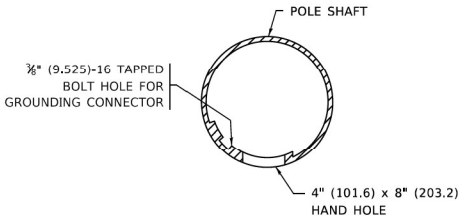
NOTES

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.



LIGHT POLE BASE PLATE DETAIL

15 INCH (381.0) BOLT CIRCLE



HANDHOLE DETAIL

(N.T.S.)

USER NAME = Lawrence,DeManche	DESIGNED -	REVISED - R. TOMSONS 09-03-03
	DRAWN -	REVISED - R. TOMSONS 01-18-13
	CHECKED -	REVISED - R. TOMSONS 03-18-15
	DATE -	REVISED - 06/13/2022 TG
PLOT SCALE = 100.0000 ' / in.		
PLOT DATE = 6/27/2022		

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ALUMINUM LIGHT POLE  
47'-6" (14.478 m) MOUNTING HEIGHT

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 22 BR	WILL	1201	543
BE-400		CONTRACT NO.		
ILLINOIS		FED. AID PROJECT		

AECOM

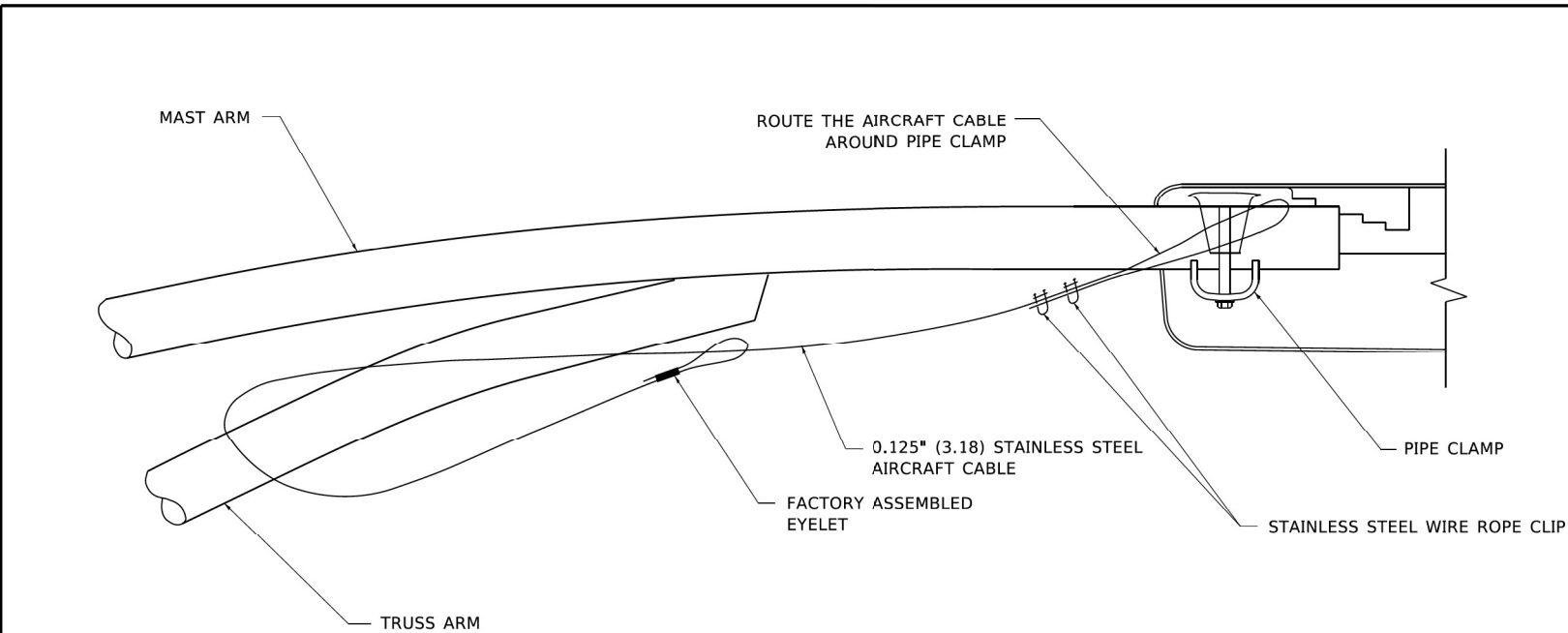
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	DRAWN - CAM	REVISED -
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PLOT DATE = 10/5/2023	DATE - 10/6/23	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

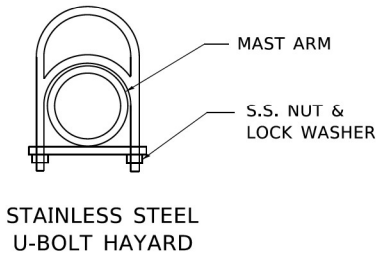
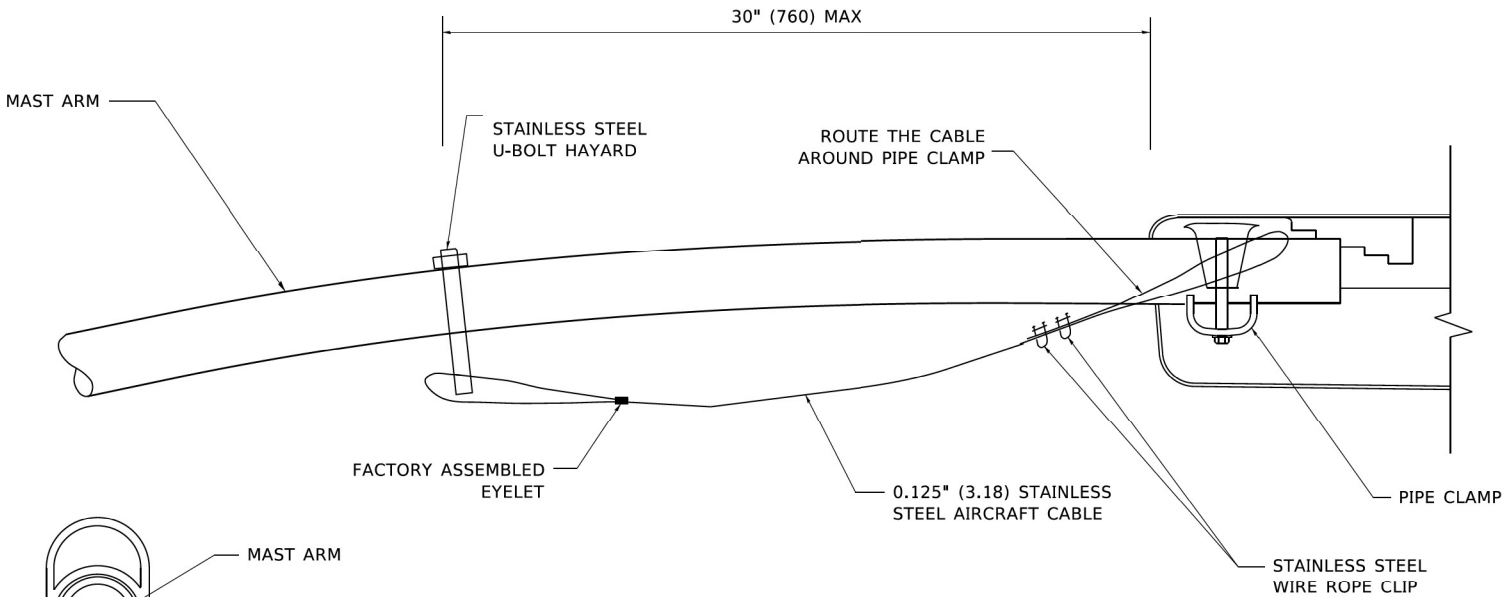
LIGHTING DETAILS

SCALE: N.T.S. SHEET 45 OF 51 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 22 BR	WILL	1201	543
		CONTRACT NO. 62R89		
		ILLINOIS FED. AID PROJECT		

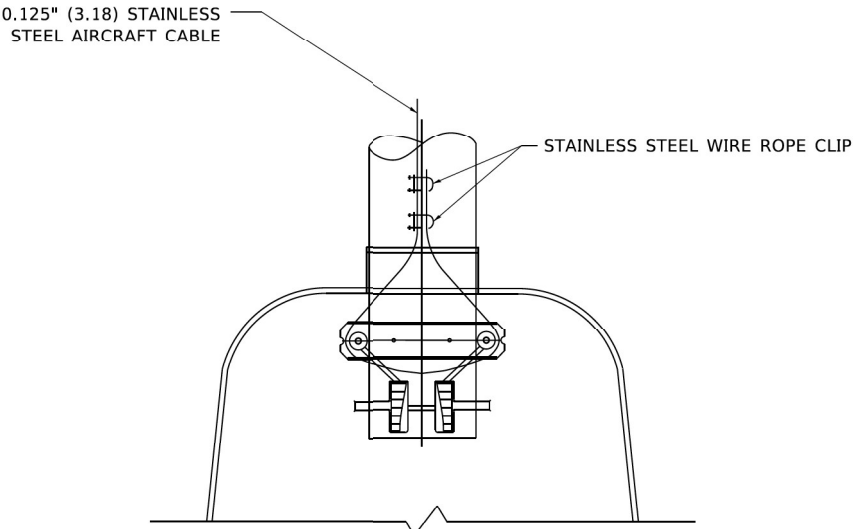


**SIDE VIEW (TRUSS ARM)**  
**N.T.S.**



**STAINLESS STEEL U-BOLT HAYARD**

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



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

**NOTES:**

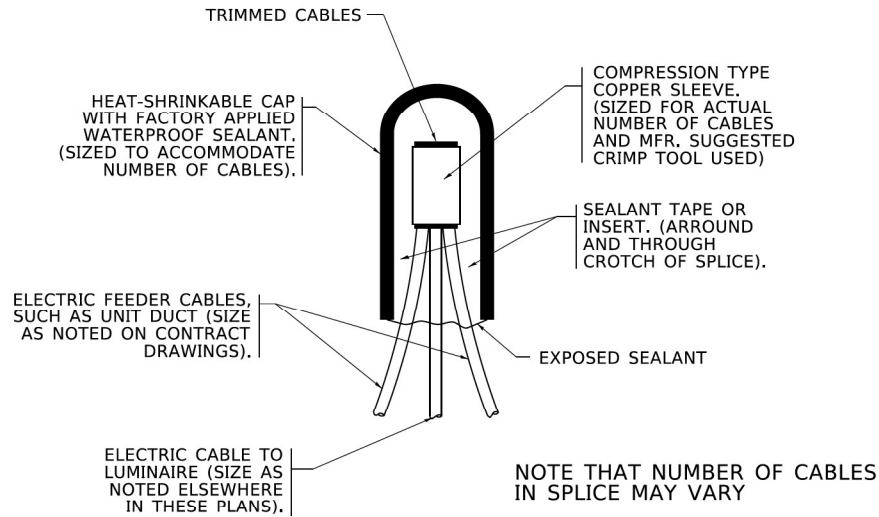
1. ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN.
2. CONTRACTOR SHALL ADJUST THE WIRE CLIP TO ELIMINATE ANY SLACK FROM THE WIRE ROPE.
3. THE 0.125" (3.18) STAINLESS STEEL AIRCRAFT CABLE SHALL REMAIN VISIBLE FROM THE GROUND LEVEL.
4. THE BREAKING STRENGTH OF THE CABLE SHALL BE 1700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

	USER NAME = footemj	DESIGNED -	REVISED - 08-08-03	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LUMINAIRE SAFETY CABLE ASSEMBLY			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -									
	PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -					BE-701				
	PLOT DATE = 4/19/2019	DATE -	REVISED -					ILLINOIS FED. AID PROJECT				

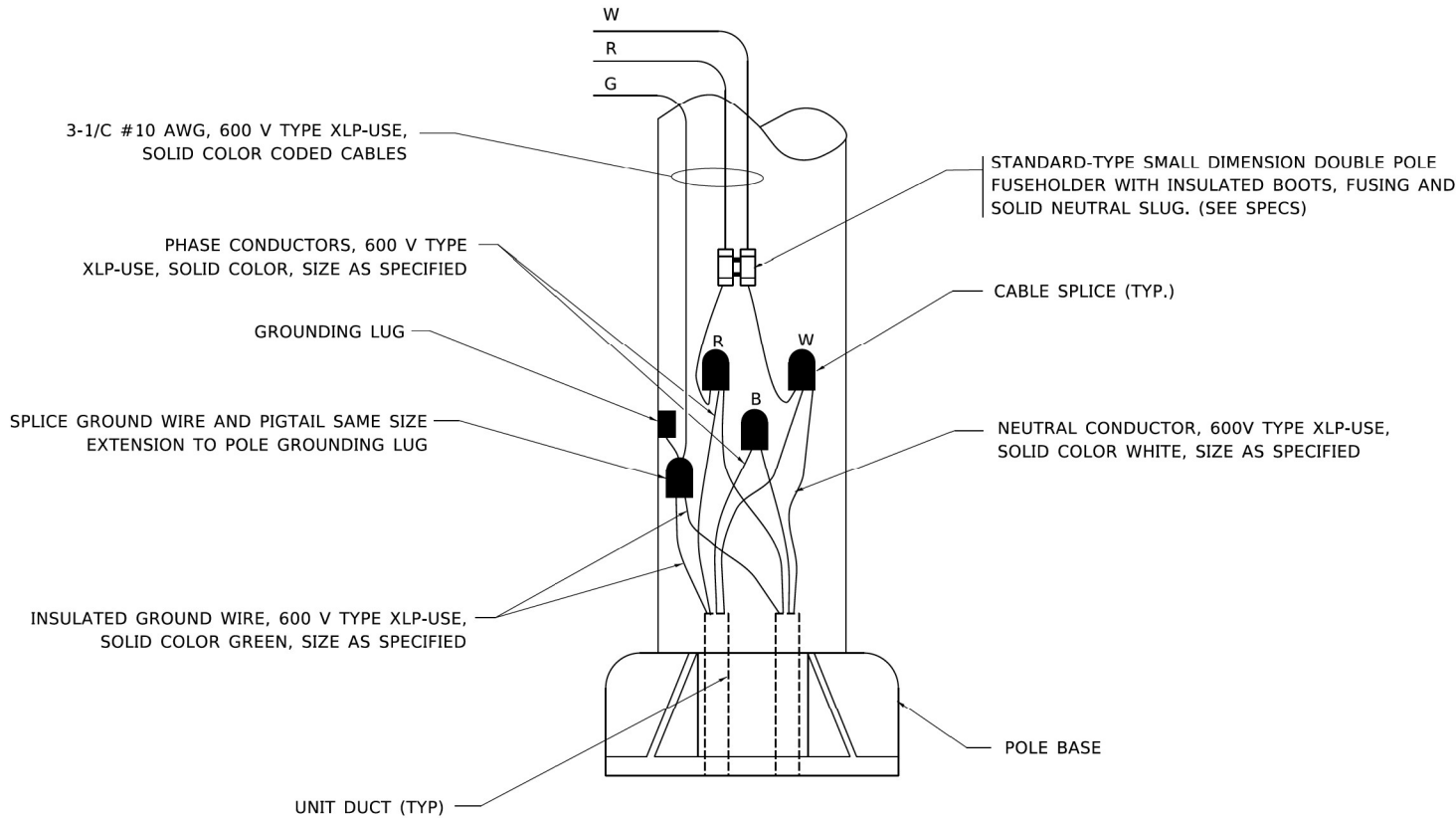
USER NAME = myersc	DESIGNED - TJL	REVISED -
	DRAWN - CAM	REVISED -
PLOT SCALE = 0.08333772 ' / in.	CHECKED - MAE	REVISED -
PLOT DATE = 10/5/2023	DATE - 10/6/23	REVISED -

LIGHTING DETAILS		
SCALE: N.T.S.	SHEET 46 OF 51 SHEETS	STA. TO STA.

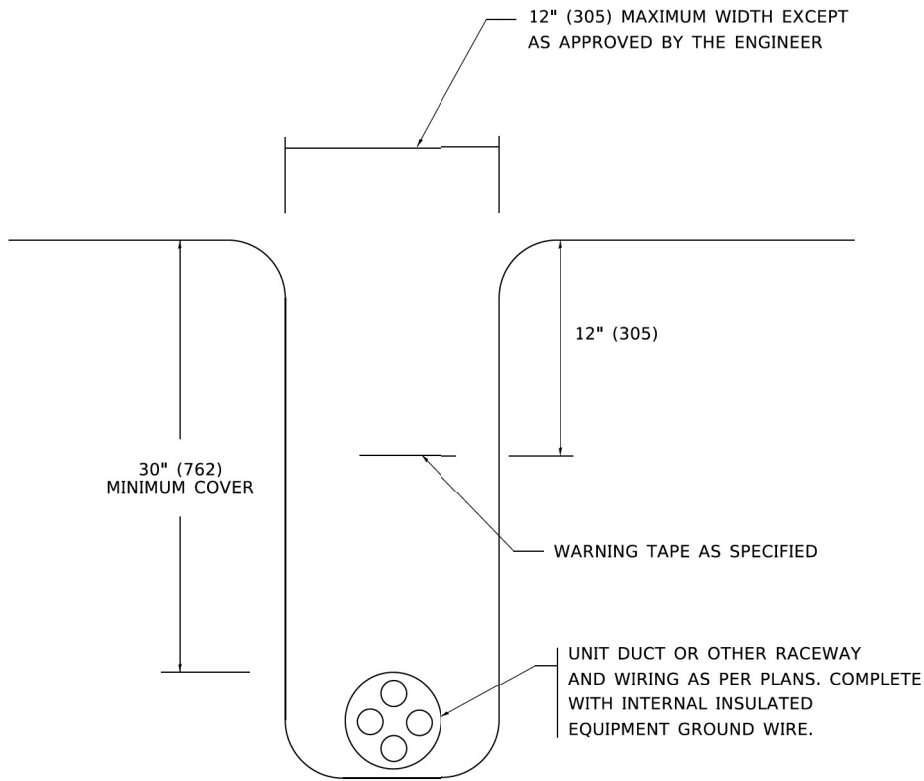
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 22 BR	WILL	1201	544
CONTRACT NO. 62R89				
ILLINOIS FED. AID PROJECT				



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



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



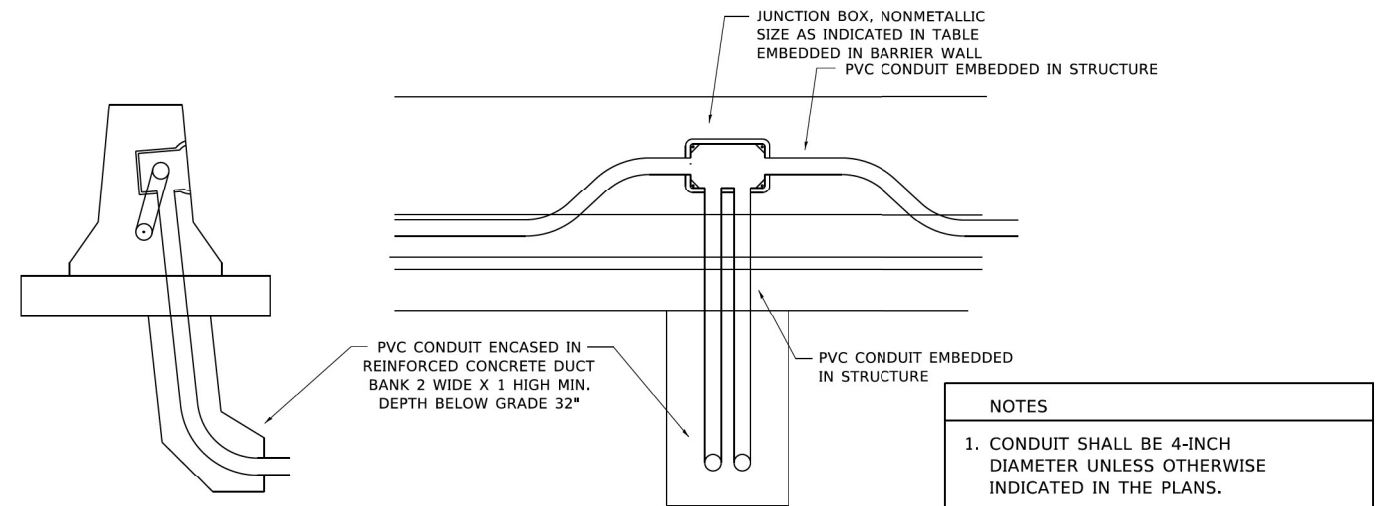
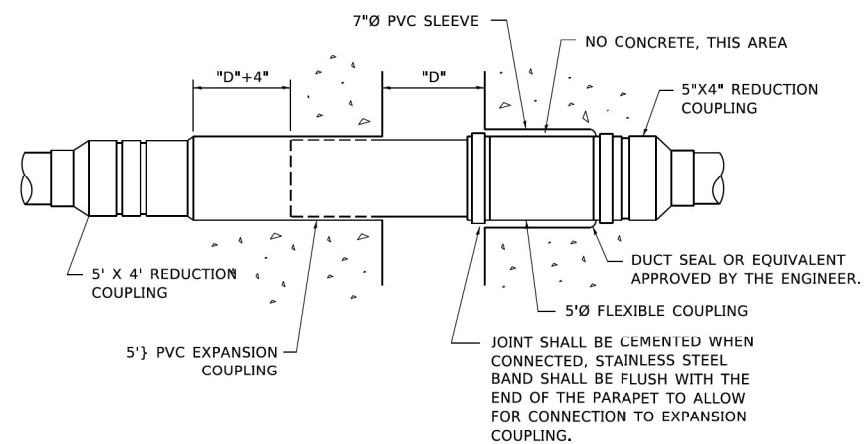
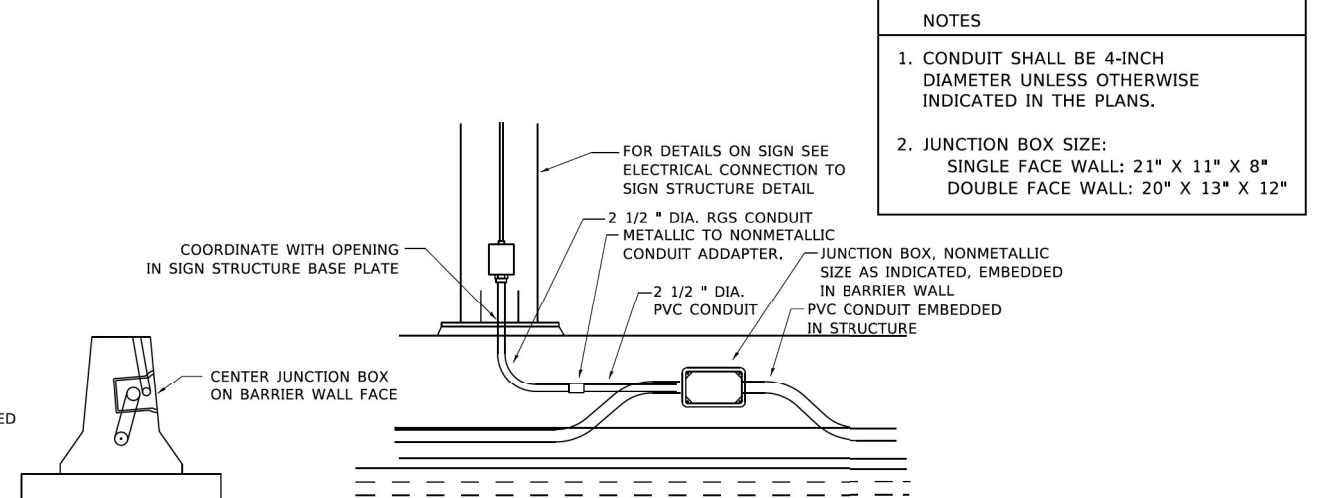
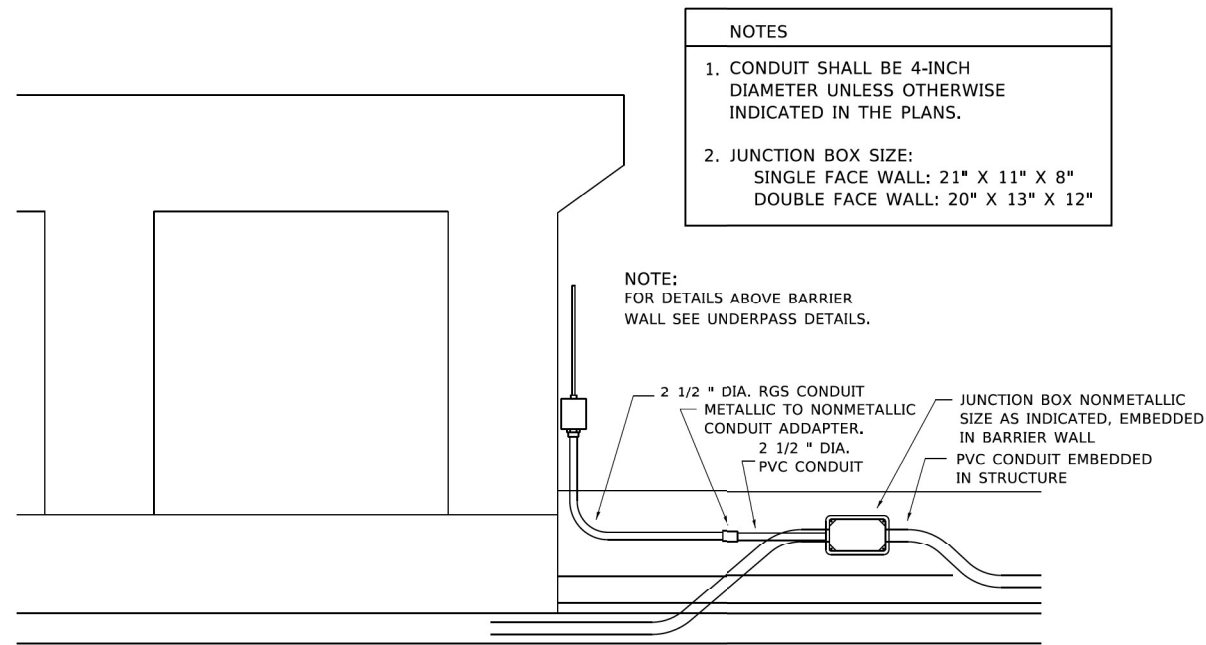
**TYPICAL WIRING IN TRENCH DETAIL**  
**N.T.S.**

	USER NAME = leysa	DESIGNED -	REVISED - 02/04/2020	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MISC. ELECTRICAL DETAILS SHEET A				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
		DRAWN -	REVISED -													
	PLOT SCALE = 50.0000' / in.	CHECKED -	REVISED -													
	PLOT DATE = 3/2/2020	DATE - 08/08/2003	REVISED -		SCALE: NONE				SHEET 1	OF 1	SHEETS	STA.	TO STA.	BE-702		CONTRACT NO.

USER NAME = myersc	DESIGNED - TJL	REVISED -
	DRAWN - CAM	REVISED -
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PLOT DATE = 10/5/2023	DATE - 10/6/23	REVISED -

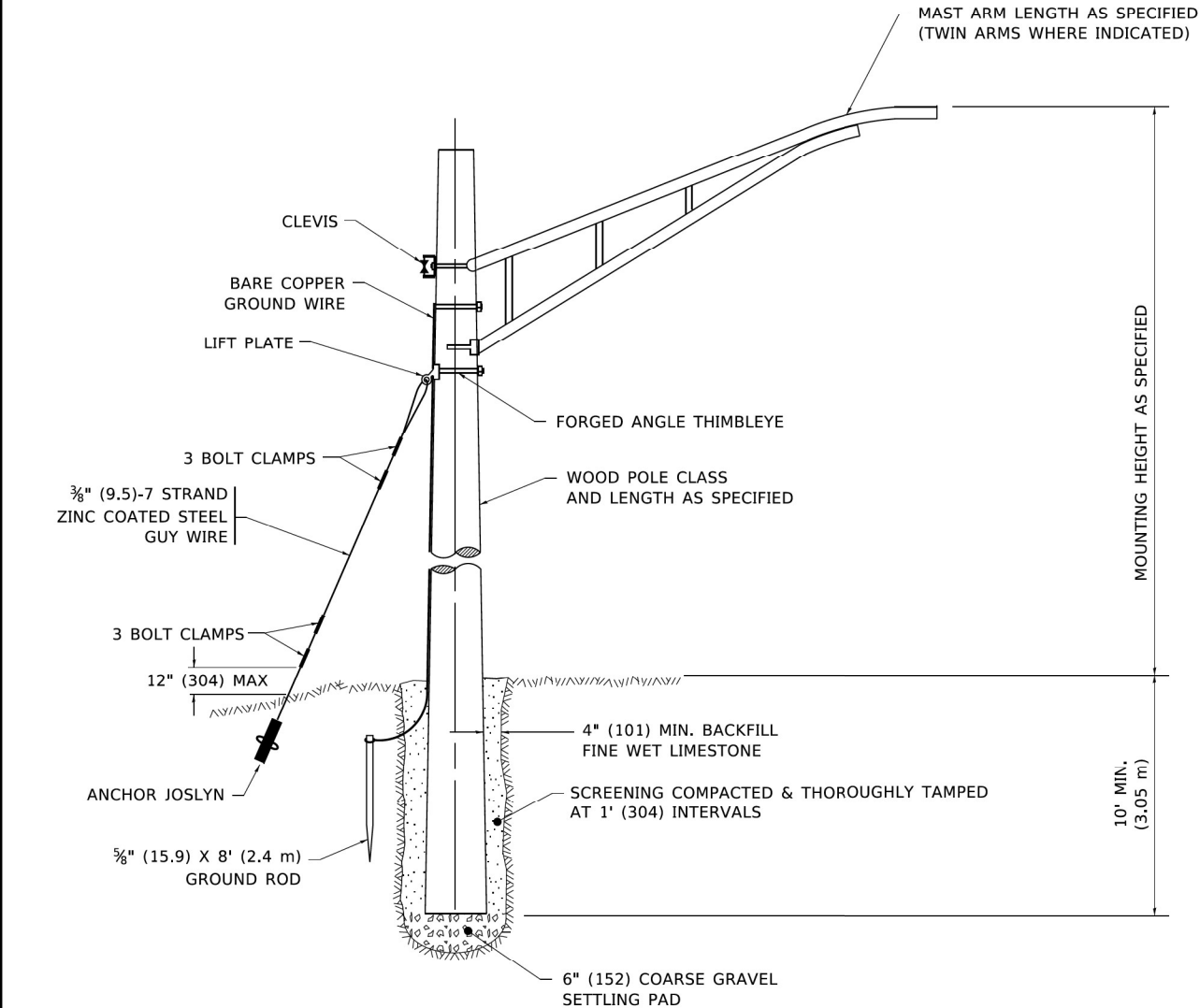
LIGHTING DETAILS		
SCALE: N.T.S.	SHEET 47	OF 51 SHEETS
STA.	TO STA.	

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 22 BR	WILL	1201	545
CONTRACT NO. 62R89				
ILLINOIS FED. AID PROJECT				



FILE NAME: PROJ.DWG	USER NAME = footernj	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MISCELLANEOUS ELECTRICAL DETAILS, SHEET B J BOX EMBEDDED IN BARRIER WALL – INSTALLATION OF CONDUIT IN BRIDGE PARAPET EXPANSION JOINT – ELECTRIC CONNECTION TO UNDERPASS LIGHTING				F.A. RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -											
	PLOT SCALE = 50,0000' / 1in.	CHECKED -	REVISED -		BE-703		CONTRACT NO.							
	PLOT DATE = 4/19/2019	DATE - 01-20-2009	REVISED -		SCALE: NONE	SHEET 1 OF 1 SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT						

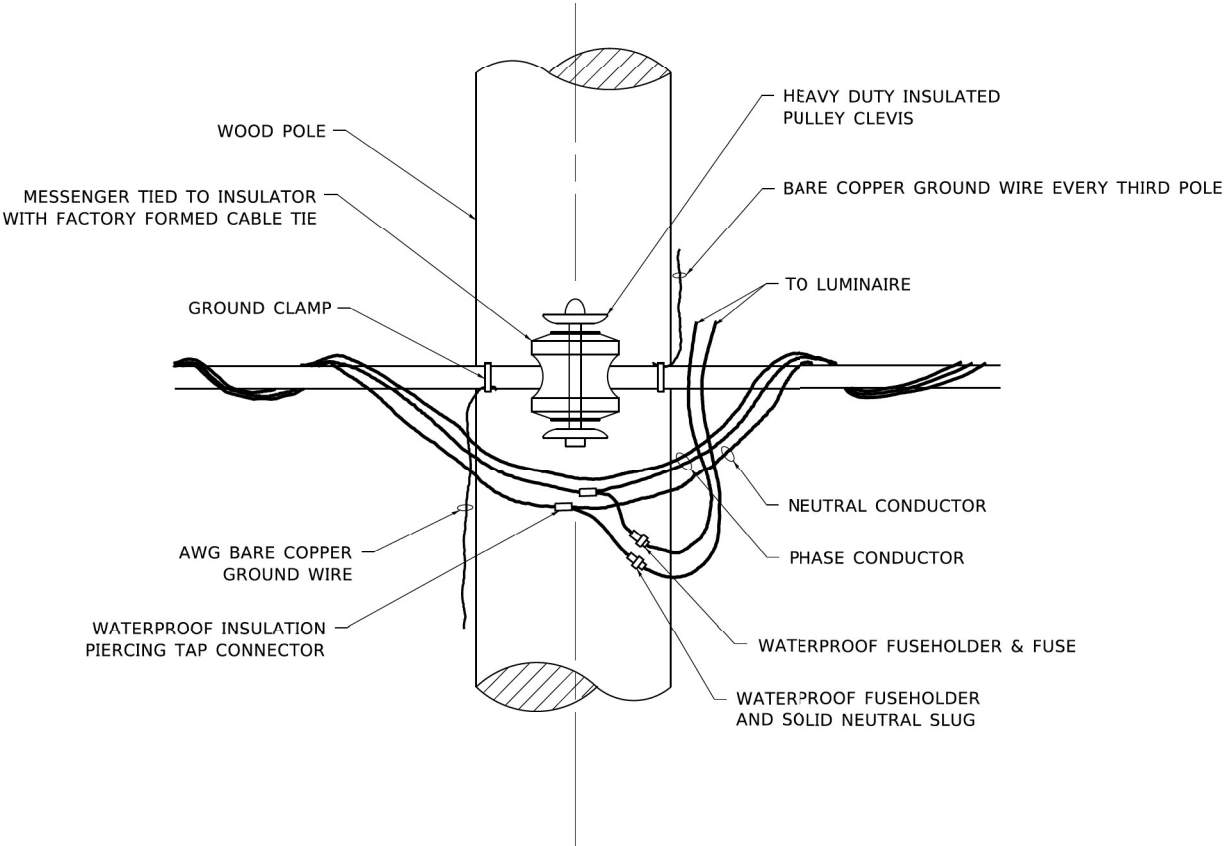
USER NAME = myersc	DESIGNED - TJL	REVISED -	<div>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</div>	<div>LIGHTING DETAILS</div>					F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN - CAM	REVISED -							I-80	FAI 80 22 BR	WILL	1201	546
PLOT SCALE = 0.08333772" / in.	CHECKED - MAE	REVISED -		CONTRACT NO. 62R89									
PLOT DATE = 10/5/2023	DATE = 10/6/2023	REVISED -		SCALE: N.T.S.	SHEET 48 OF 51 SHEETS	STA.	TO STA.						



**TEMPORARY LIGHT POLE DETAIL**

**NOTE:**

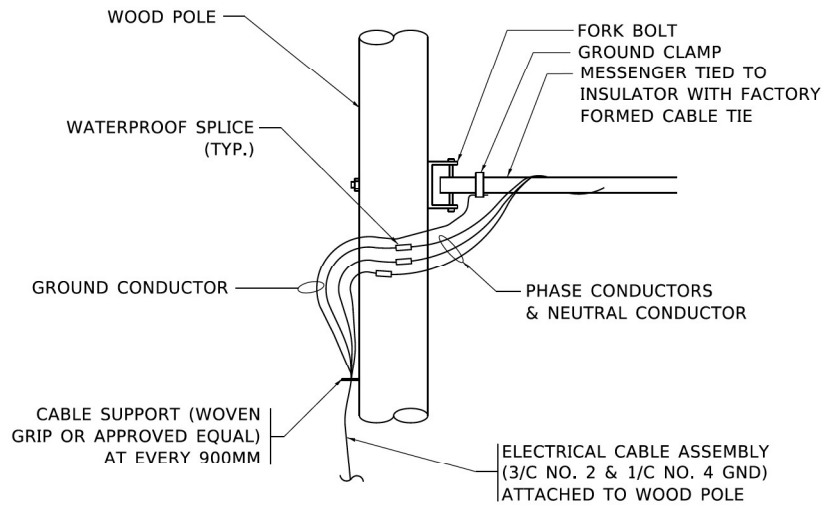
1. ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE INDICATED.
2. MAST ARM SHALL BE RATED FOR THE SPECIFIED MOUNTING HEIGHT.



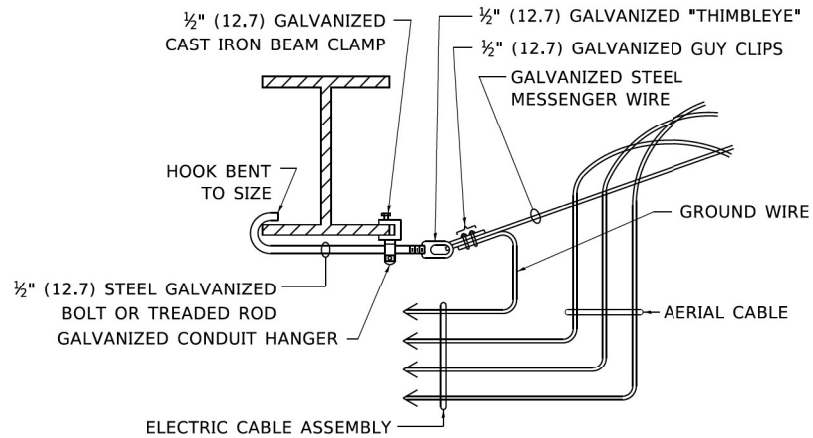
**TEMPORARY LIGHT POLE ATTACHMENT DETAIL**

	USER NAME   = footemj	DESIGNED   -	REVISED   -   08-08-03	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY LIGHT POLE DETAILS				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN    -	REVISED   -   R.T. 07-26-16										
	PLOT SCALE   = 50,0010 ' / In.	CHECKED   -	REVISED   -		BE-800				CONTRACT NO.				
	PLOT DATE    = 4/19/2019	DATE       -	REVISED   -		SCALE: NONE    SHEET   1    OF   1    SHEETS   STA.           TO STA.				ILLINOIS   FED. AID PROJECT				

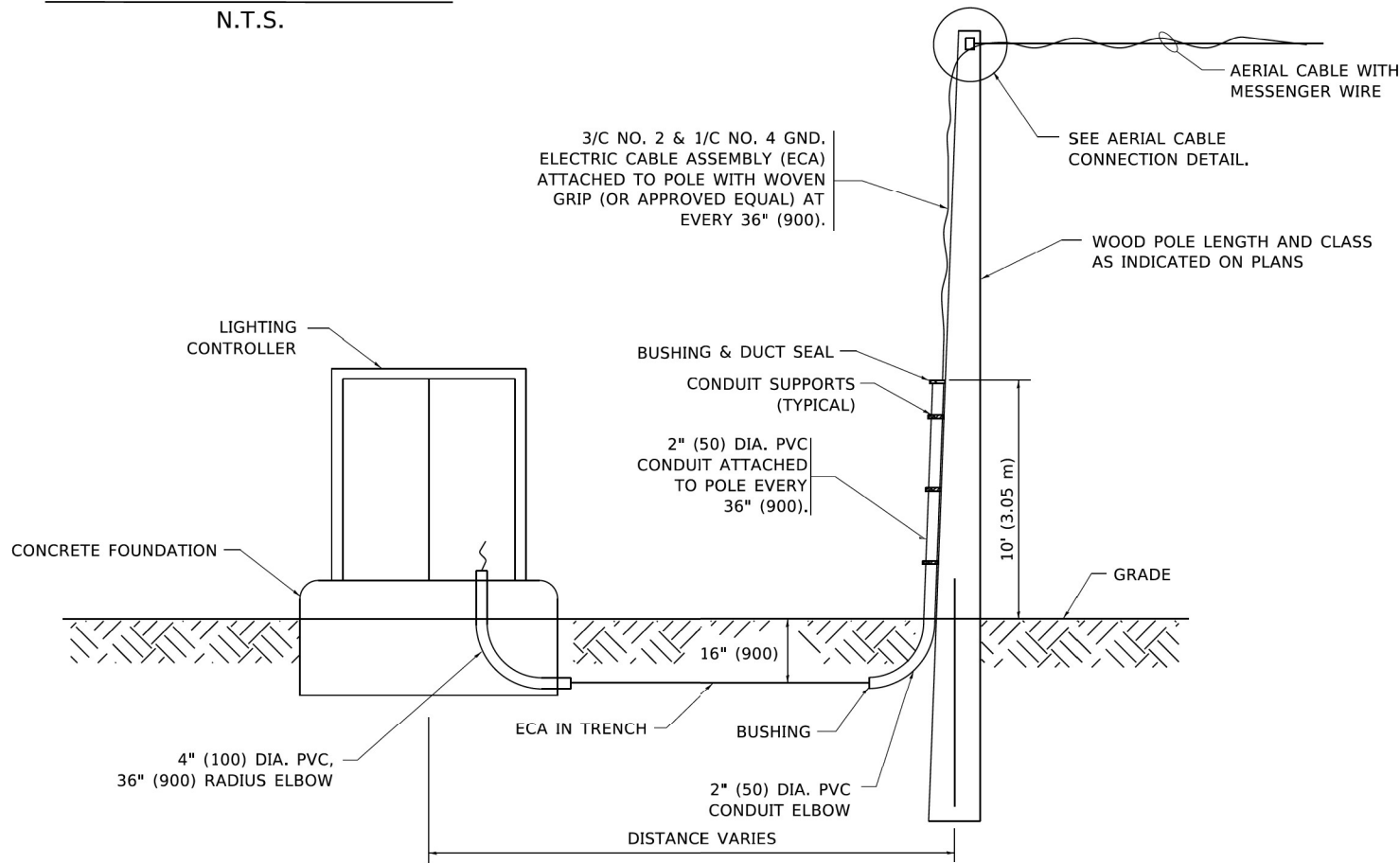
AECOM 303 EAST WACKER DRIVE, SUITE 1400 CHICAGO, IL 60601-5276 PHONE: (312) 373-7700 FAX: (312) 373-6800	USER NAME = myersc	DESIGNED - TJL	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LIGHTING DETAILS				F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - CAM	REVISED -						I-80	FAI 80 22 BR	WILL	1201	547
	PLOT SCALE = 0.08333772 ' / in.	CHECKED - MAE	REVISED -		SCALE: N.T.S. SHEET 49 OF 51 SHEETS STA. TO STA.				CONTRACT NO. 62R89				
	PLOT DATE = 10/5/2023	DATE - 10/6/23	REVISED -						ILLINOIS FED. AID PROJECT				



**AERIAL CABLE CONNECTION DETAIL**  
N.T.S.



**AERIAL CABLE  
ATTACHED TO STRUCTURE**  
NOT TO SCALE



**WOOD POLE TO LIGHTING CONTROLLER  
WIRING CONNECTION DETAIL**  
N.T.S.

**NOTES:**

1. ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE INDICATED.
2. SEE PROPOSED LIGHTING PLAN FOR CONDUIT, CABLE AND ROUTING.
3. THE CONTRACTOR SHALL PROVIDE INTERMEDIATE SUPPORTS TO MAINTAIN MINIMUM CLEARANCES. REFER TO AERIAL AERIAL CABLE ATTACHED TO STRUCTURE DETAIL.
4. COST OF SPLICES AND MOUNTING HARDWARE SHALL BE INCLUDED IN THE UNIT PRICE FOR AERIAL CABLE.

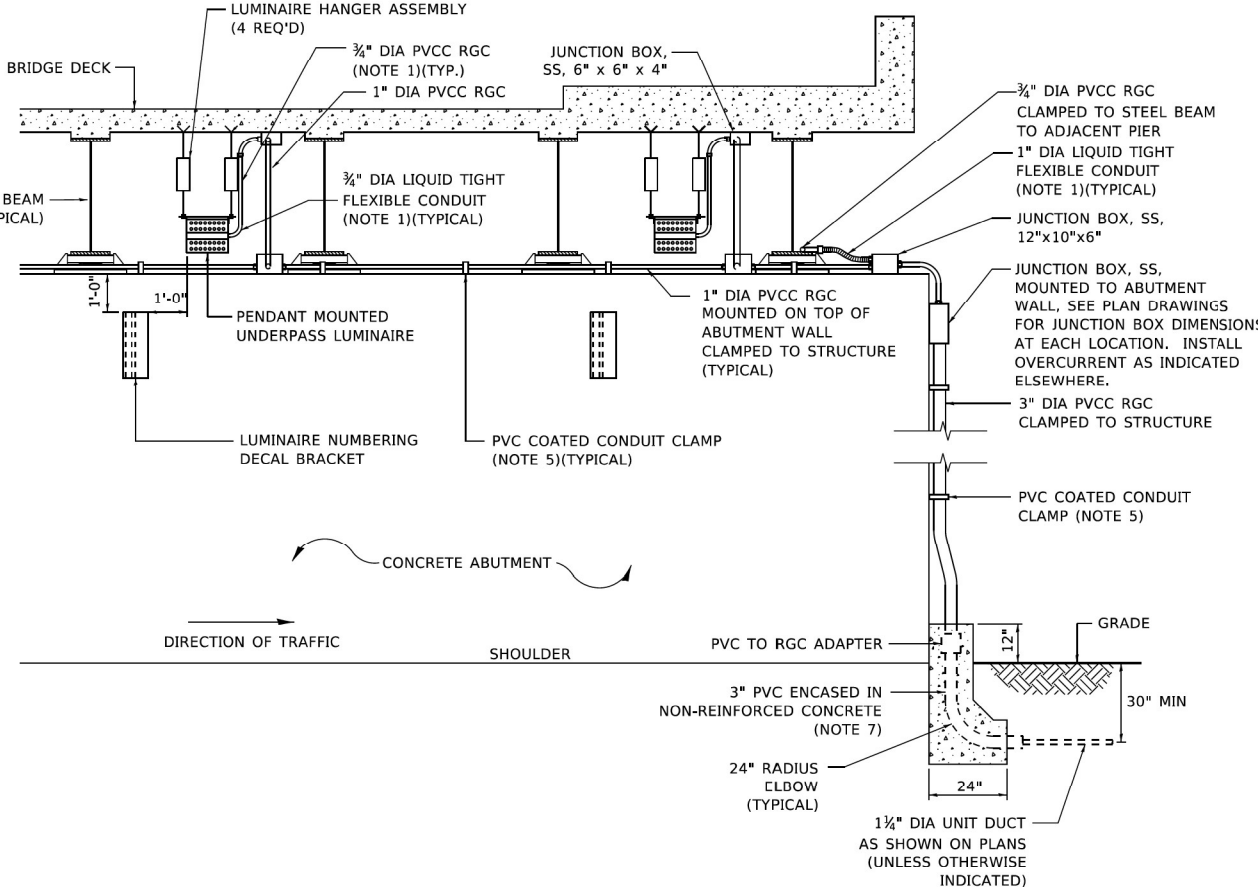
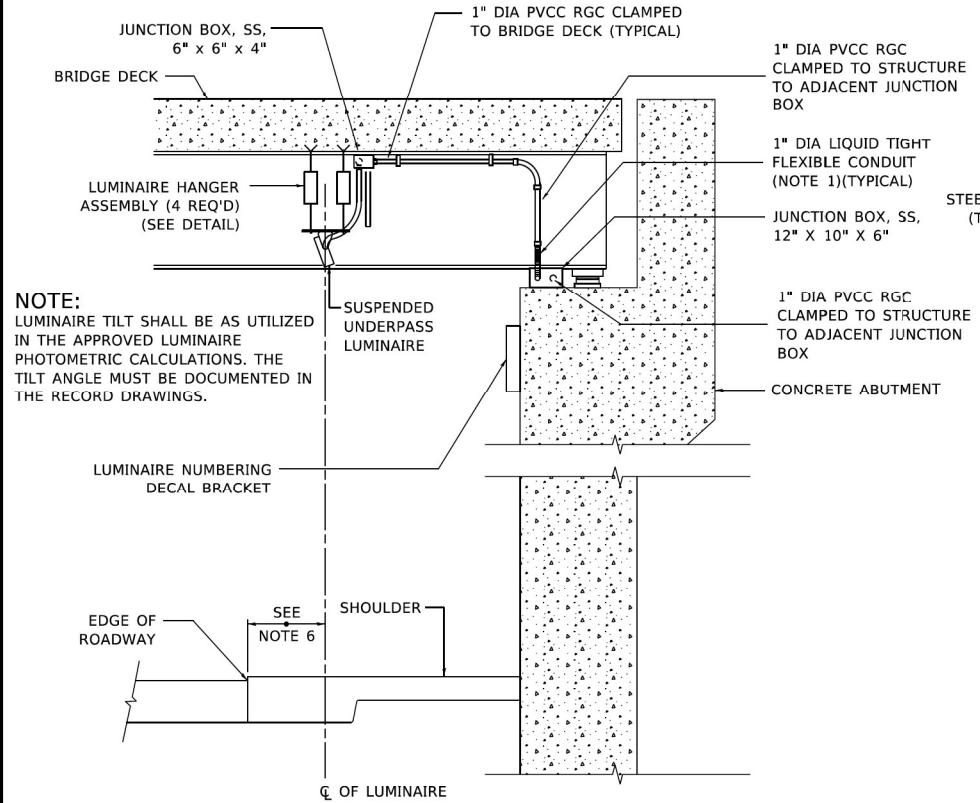
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		DRAWN -	REVISED -										
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							SCALE: NONE	SHEET 1	OF 1	SHEETS	STA.	TO STA.	

USER NAME = myersc	DESIGNED - TJL	REVISED -
	DRAWN - CAM	REVISED -
PLOT SCALE = 0.08333772' / in.	CHECKED - MAE	REVISED -
PLOT DATE = 10/5/2023	DATE - 10/6/23	REVISED -

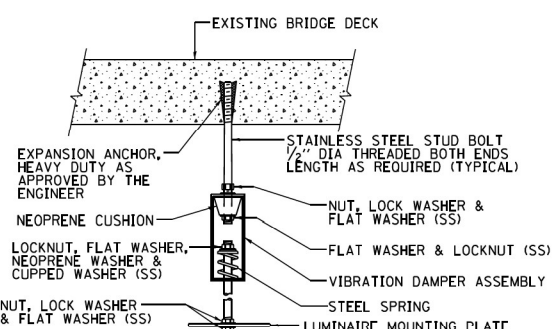
**LIGHTING DETAILS**

SCALE: N.T.S. SHEET 50 OF 51 SHEETS STA. TO STA.

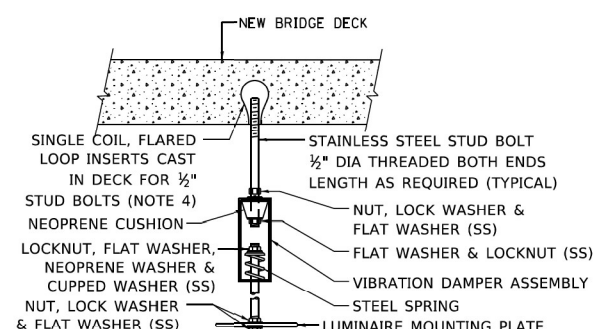
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 22 BR	WILL	1201	548
CONTRACT NO. 62R89				
ILLINOIS FED. AID PROJECT				



- 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 " DIA. CONDUIT AND " 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).

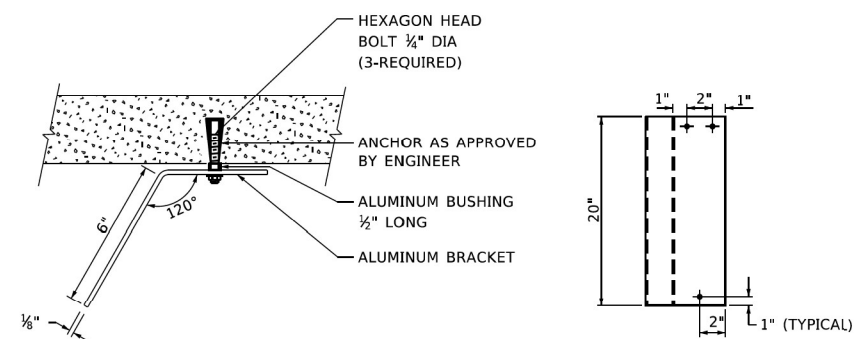


**EXISTING BRIDGE DECK INSTALLATION**



**NEW BRIDGE DECK INSTALLATION**

**TYPICAL LUMINAIRE HANGER ASSEMBLY DETAILS**

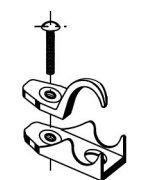


**LUMINAIRE NUMBERING DECAL BRACKET**

NOT TO SCALE



**PVC COATED CONDUIT BEAM CLAMP**  
NOT TO SCALE



**PVC COATED CONDUIT CLAMP**  
NOT TO SCALE

USER NAME = gajlanabt	DESIGNED -	REVISED - 12-12-05
PLOT SCALE = 100.0000' / in.	DRAWN -	REVISED -
PLOT 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.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 22 BR	WILL	1201	549
BE-901		CONTRACT NO.		
ILLINOIS FED. AID PROJECT				



USER NAME = myersc	DESIGNED - TJL	REVISED -
PLOT SCALE = 0.08333772' / in.	DRAWN - CAM	REVISED -
PLOT DATE = 10/5/2023	CHECKED - MAE	REVISED -
	DATE - 10/6/23	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**LIGHTING DETAILS**












SCALE: N.T.S. SHEET 51 OF 51 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 22 BR	WILL	1201	549
		CONTRACT NO. 62R89		
ILLINOIS FED. AID PROJECT				

### SYMBOLS FOR EXISTING CONDITIONS

- ☐ (A) AUTOMATIC TRAFFIC RECORDER (ATR) STATION
- ☐ (B) BLUETOOTH DETECTION ASSEMBLY
- ☐ (C) CLOSED CIRCUIT TELEVISION CAMERA
- ☐ (DMS) DYNAMIC MESSAGE SIGN
- ☐ (E) HEAVY DUTY HANDHOLE (ELECTRICAL)
- ☐ (F) COMMUNICATIONS VAULT
- ☐ (G) JUNCTION BOX ATTACHED TO STRUCTURE
- ☐ (H) ITS POLE AND FOUNDATION
- ☐ (I) GROUND MOUNTED CABINET
- ☐ (J) POLE MOUNTED CABINET
- ☐ (K) ELECTRIC UTILITY POLE
- ☐ (L) POLE MOUNTED ELECTRIC UTILITY TRANSFORMER(S)
- ☐ (M) PAD MOUNTED ELECTRIC UTILITY TRANSFORMER
- ☐ (N) SERVICE METER PEDESTAL

### SYMBOLS FOR PROPOSED WORK

-  HEAVY DUTY HANDHOLE (ELECTRICAL)
-  COMMUNICATIONS VAULT (IDOT)
-  COMMUNICATIONS VAULT (THIRD PARTY)
-  JUNCTION BOX ATTACHED TO STRUCTURE\*
- CONCRETE FOUNDATION FOR FUTURE ITS POLE
-  TYPE "A" FOUNDATION FOR FUTURE DISCONNECT
-  FOUNDATION FOR FUTURE GROUND MOUNTED CABINET\*
-  FOUNDATION MOUNTED CABINET\*
-  ELECTRIC UTILITY POLE
-  POLE MOUNTED ELECTRIC UTILITY TRANSFORMER(S)
-  PAD MOUNTED ELECTRIC UTILITY TRANSFORMER
-  SERVICE METER PEDESTAL





\*TYPE AND/OR SIZE AS INDICATED ON PLANS

### ABBREVIATIONS\*

(A)	ABANDON IN PLACE
ATR	AUTOMATIC TRAFFIC RECORDER
ATS	ATTACHED TO STRUCTURE
CCTV	CLOSED CIRCUIT TELEVISION
CNC	COILABLE NONMETALLIC CONDUIT
COMM	COMMUNICATION
DCF	DISTRIBUTION CABLE FIBER
DMS	DYNAMIC MESSAGE SIGN
F	FIBER
FRE	FIBER REINFORCED EPOXY (CONDUIT)
FT	FEET
GS	GALVANIZED STEEL
HDHH	HEAVY DUTY HANDHOLE
JB	JUNCTION BOX
NTS	NOT TO SCALE
OFF	OFFSET
SM	SINGLE MODE
TCF	TRUNK CABLE FIBER
TRNS	TRANSFORMER

\*NOT LISTED IN IDOT STANDARD 000001-08

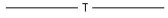
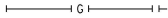
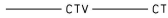
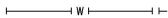
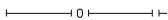
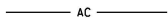
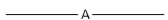
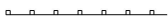
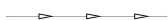

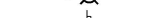








## LINESTYLES FOR EXISTING CONDITIONS

- |                                                                                     |                                         |
|-------------------------------------------------------------------------------------|-----------------------------------------|
|  | ELECTRICAL CABLE IN CONDUIT*            |
|  | FIBER OPTIC CABLE IN CONDUIT*           |
|  | CONDUIT AND ELECTRICAL CABLE TO REMAIN  |
|  | CONDUIT AND FIBER OPTIC CABLE TO REMAIN |
- \*CABLE TO BE REMOVED;  
CONDUIT TO BE ABANDONED

### LINESTYLES FOR PROPOSED WORK

- |                         |                                                      |
|-------------------------|------------------------------------------------------|
| _____ E _____ E _____   | CONDUIT FOR FUTURE ELECTRICAL CABLE*                 |
| _____ FO _____ FO _____ | MICRODUCT OR INNERDUCT FOR FUTURE FIBER OPTIC CABLE* |
| _____                   | CONDUIT SLEEVE*                                      |
| _____                   |                                                      |
|                         | *TYPE AND SIZE AS INDICATED ON PLANS                 |

### NON-ITS ELEMENTS LEGEND

- |                                                                                       |                                       |
|---------------------------------------------------------------------------------------|---------------------------------------|
|  | EXISTING UNDERGROUND TELEPHONE        |
|  | EXISTING UNDERGROUND GAS              |
|  | EXISTING UNDERGROUND CABLE TV         |
|  | EXISTING UNDERGROUND WATER            |
|  | EXISTING UNDERGROUND OIL              |
|  | EXISTING ACCESS CONTROL AND ROW FENCE |
|  | EXISTING AERIAL LINE                  |
|  | EXISTING GUARDRAIL                    |
|  | EXISTING STORM SEWER                  |
|  | EXISTING LIGHTING                     |
|  | EXISTING SIGNAGE                      |
|  | PROPOSED ACCESS CONTROL AND ROW FENCE |
|  | PROPOSED GUARDRAIL                    |
|  | PROPOSED STORM SEWER                  |
|  | PROPOSED UNDERDRAIN                   |
|  | PROPOSED DRAINAGE                     |
|  | PROPOSED DRAINAGE FLOW                |
|  | PROPOSED LIGHTING                     |
|  | PROPOSED SIGNAGE                      |



GENERAL NOTES

1.

A MINIMUM OF SEVENTY-TWO (72) HOURS BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL J.U.L.I.E. AT (800-892-0123) OR 811 TO HAVE THE LOCATION OF EXISTING UNDERGROUND UTILITIES MARKED IN THE FIELD.
2.

IDOT FACILITIES ARE NOT LOCATED BY JULIE OR DIGGER. IDOT ELECTRICAL FACILITIES INCLUDING ROADWAY LIGHTING, FIBER OPTIC, ITS EQUIPMENT, TRAFFIC SIGNAL AND PUMP STATION FACILITIES ARE LOCATED BY THE DEPARTMENT'S ELECTRICAL MAINTENANCE CONTRACTOR. AS OF THE LETTING DATE, CONTACT THE MEADE ELECTRIC COMPANY AT 773-287-7672.
3.

AFTER THE INITIAL LOCATE OF IDOT FACILITIES, THE CONTRACTOR WILL BE RESPONSIBLE FOR LOCATING EXISTING IDOT ELECTRICAL FACILITIES AT HIS/HER OWN EXPENSE. THE CONTRACTOR SHALL ALSO BE LIABLE FOR ANY DAMAGE TO IDOT FACILITIES RESULTING FROM INACCURATE LOCATING.
4.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND OR SURFACE UTILITIES EVEN THOUGH THEY MAY NOT BE SHOWN IN THE PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER. THIS WORK WILL BE AT THE CONTRACTOR'S EXPENSE.
5.

THE LOCATIONS OF PUBLIC OR PRIVATE UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE AND THEIR ACCURACY IS NOT GUARANTEED. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION AND ELEVATION OF ALL UTILITIES. THE CONTRACTOR SHALL REPORT ANY ENCOUNTERED DISCREPANCIES TO THE ENGINEER AT ONCE. THE CONTRACTOR SHALL TAKE DUE CARE.
6.

POTHOLING TO LOCATE EXISTING UNDERGROUND UTILITIES SHALL BE INCLUDED IN THE CONTRACT BID PRICE FOR THE UNDERGROUND CONDUIT PAY ITEMS.
7.

THE CONTRACTOR IS RESPONSIBLE FOR THE COST OF UNCOVERING OR HAND DIGGING AROUND UTILITIES AS NECESSARY. THIS COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT PRICES FOR THE CONDUITS.
8.

THE CONTRACTOR SHALL VERIFY ADEQUATE CLEARANCE OVER/UNDER EXISTING AND PROPOSED FACILITIES BEFORE INSTALLING DUCTS, CONDUIT AND CABLES. WHERE THE CONTRACTOR'S EXCAVATION MEETS AN OBSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER FOR DIRECTION IN WRITING PRIOR TO EXCAVATION.
9.

CONDUIT CROSSING OVER/UNDER OTHER UTILITIES OR DRAINAGE SHALL MAINTAIN A SEPERATION OF AT LEAST 18 INCHES OR AS SPECIFIED BY OWNING UTILITY.
10.

CONDUITS AND UNIT DUCTS SHALL BE INSTALLED AT A MINIMUM 30" DEPTH BELOW GRADE AND POSITIONED IN THE FIELD TO AVOID CONFLICT WITH ROADWAY UNDERDRAINS AND OTHER EXISTING AND PROPOSED UTILITIES.
11.

NO ADDITIONAL COMPENSATION SHALL BE ALLOWED FOR PLACING CONDUIT AT GREATER THAN 30 INCHES MINIMUM DEPTH TO AVOID OBSTACLES SUCH AS UNDERGROUND UTILITIES, DRAIANGE PIPES, AND STRUCTURES OR TO ENTER COMMUNICATIONS VAULTS OR HANDHOLES.
12.

THE CONTRACTOR SHALL AVOID TRENCHING THROUGH WETLAND AREA, ROADSIDE DITCHES AND RETENTION PONDS.
13.

IDOT MICRODUCT SHALL ONLY ENTER IDOT COMMUNICATIONS VAULTS.
14.

THIRD PARTY MICRODUCT SHALL ONLY ENTER THIRD PARTY COMMUNICATIONS VAULTS.
15.

THE COMMUNICATION VAULT SHALL BE CONSTRUCTED SO THAT THE TOP OF THE FRAME WILL BE FLUSH WITH THE SURFACE OF THE MEDIAN, SIDEWALK, OR GROUND LINE.
16.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION.
17.

ITS REMOVAL PLAN SHEETS DEPICT EXISTING CONDITIONS AND WORK TO BE PERFORMED TO MAINTAIN, REMOVE, SALVAGE, OR ABANDON EXISTING ITS INFRASTRUCTURE. PROPOSED ITS PLAN SHEETS DEPICT NEW ITS INFRASTRUCTURE TO BE INSTALLED.
18.

ALL EXCAVATED MATERIAL, WHICH INCLUDES DIGGING OR GRADING OF ANY SOIL OR FILL MATERIAL, WITH THE EXCEPTION OF AGGREGATE FILLS, MUST BE INCORPORATED WITHIN THE IDOT RIGHT OF WAY DUE TO ENVIRONMENTAL DOCUMENTATION REQUIREMENTS. EXCAVATED MATERIALS SHALL BE DISPOSED OF AT LOCATIONS DESIGNATED BY THE ENGINEER. ANY SUCH DISPOSAL SHALL BE COMPLETED IN SUCH A MANNER THAT PUBLIC OR PRIVATE PROPERTY WILL NOT BE DAMAGED OR ENDANGERED AND SHALL NOT CREATE AN UNSIGHTLY OR OBJECTIONABLE APPEARANCE OR DETRACT FORM THE NATURAL TOPOGRAPHIC FEATURES WITHOUT WRITTEN PERMISSION FROM THE ENGINEER.
19.

ALL SURPLUS MATERIALS SHALL BE DISPOSED OF IN ACCORDANCE WITH ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS.
20.

ELECTRICAL WORK SHALL CONFORM WITH NATIONAL, STATE, AND LOCAL CODES.
21.

ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUBNUMBER SHOWN IN THE LIST OF STANDARDS OR THE COPY INCLUDED IN THESE PLANS.
22.

ELECTRICAL HANDHOLE COVER LEGEND SHALL BE "IDOT ITS".
23.

ITS SYMBOLS ARE OVERSIZED ON THE PLANS FOR CLARITY. CONTRACTOR SHALL USE STATIONS AND OFFSETS TO ACCURATELY LOCATE EQUIPMENT.

BILL OF MATERIALS

ITEM	DESCRIPTION	UNIT	QTY	IDOT QTY*	THIRD PARTY QTY*
80400100	ELECTRIC SERVICE INSTALLATION	EACH	4	-	-
80400200	ELECTRIC UTILITY SERVICE CONNECTION	L SUM	0.5**	-	-
81024600	CONDUIT ENCASED, CONCRETE, 6" DIA., PVC 1 WIDE X 1 HIGH	FOOT	20	-	-
81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	104	-	-
81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	1,950	1,526	424
81028750	UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 2" DIA.	FOOT	11,597	-	-
81300915	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 20" X 20" X 8"	EACH	2	-	-
81400200	HEAVY-DUTY HANDHOLE	EACH	21	-	-
81702150	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 2	FOOT	900	-	-
84200804	REMOVAL OF POLE FOUNDATION	EACH	6	-	-
84500120	REMOVAL OF ELECTRIC SERVICE INSTALLATION	EACH	2	-	-
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	15	-	-
87800400	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	80	-	-
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	8,264	-	-
89502380	REMOVE EXISTING HANDHOLE	EACH	25	-	-
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	1	-	-
X8710318	FIBER OPTIC UTILITY MARKER	EACH	69	44	25
X8710402	FIBER OPTIC INNERDUCT 1 1/4" DIA.	FOOT	1,392	-	-
X8780200	CONCRETE FOUNDATION, SURVEILLANCE CABINET MODEL 334	EACH	1	-	-
X8950425	REMOVE EXISTING TRAFFIC SURVEILLANCE EQUIPMENT	L SUM	1	-	-
X8950510	REMOVE FIBER OPTIC CABLE FROM CONDUIT	FOOT	23,260	-	-
Z0033052	COMMUNICATIONS VAULT	EACH	37	24	13
	UNDERGROUND CONDUIT, MULTI-DUCT, 7-18MM MICRODUCTS	FOOT	36,398	23,677	12,721
	CONDUIT ATTACHED TO STRUCTURE, RIGID NONMETALLIC, 2" DIA.	FOOT	280	-	-
	CONDUIT ATTACHED TO STRUCTURE, RIGID NONMETALLIC, 4" DIA.	FOOT	810	540	270

\*THESE COLUMNS ARE NOT ADDITIONAL QUANTITY. THEY PROVIDE THE QUANTITY SPLIT BETWEEN IDOT AND THIRD PARTY FOR THE ITEMS LISTED.  
\*\*LUMP SUM QUANTITY OF 1.0 FOR THE PROJECT IS SHARED WITH LIGHTING.

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	DRAWN - DJM	REVISED -
PLOT SCALE = 0.16666633 ' / in.	CHECKED - REL	REVISED -
PLOT DATE = 10/5/2023	DATE - 10/6/23	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ITS GENERAL NOTES

SCALE: NONE    SHEET 2    OF 3    SHEETS    STA.    TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		CONTRACT NO. 62R89		
		ILLINOIS   FED. AID PROJECT		

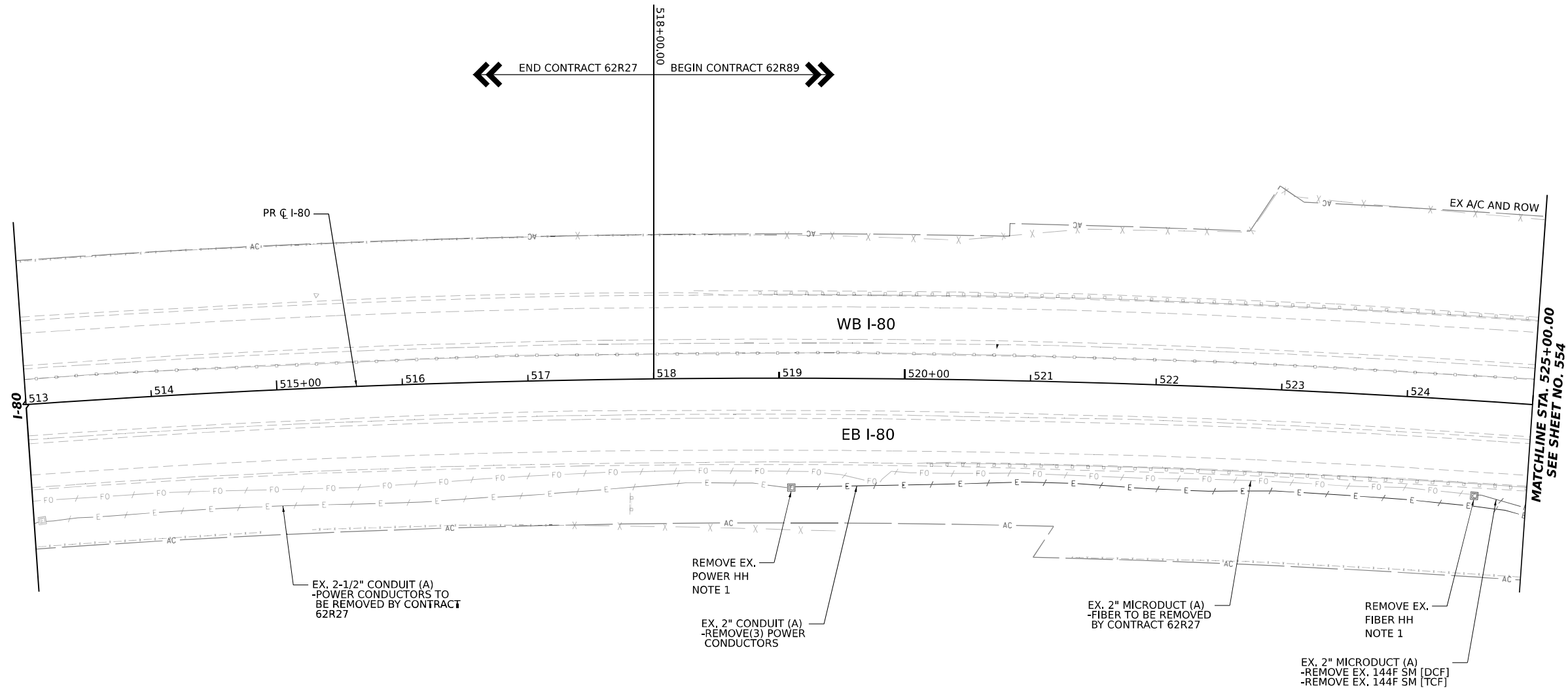
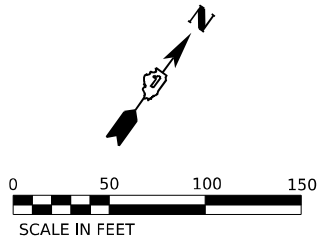
## SITE REMOVALS SCHEDULE

SITE TYPE	STATION	OFFSET	ASSOCIATED PAY ITEM	SHEET
BLUETOOTH	529+69	82' RT	84200804, X8950425	554
BLUETOOTH	556+04	90' LT	84200804, X8950425	556
BLUETOOTH	582+56	87' RT	84200804, X8950425	558
BLUETOOTH	609+25	76' LT	84200804, X8950425	561
DMS*	618+56	90' LT	89502385, X8950425	561
CCTV CAMERA	621+18	90' LT	84200804, X8950425	562
BLUETOOTH	635+40	77' RT	84200804, X8950425	563

\*STATION/OFFSET OF THE CONTROLLER CABINET IS LISTED

## PROPOSED SITE SCHEDULE

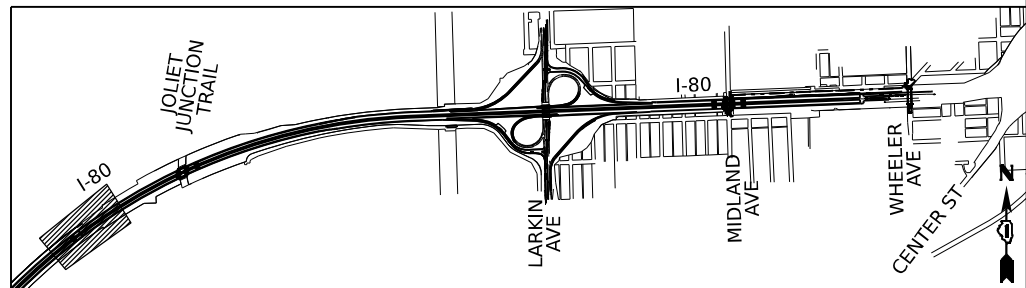
ITEM	STATION	OFFSET	ASSOCIATED PAY ITEM	SHEET
30" DIA. CONCRETE FOUNDATION	520+00	85' LT	87800400	564
30" DIA. CONCRETE FOUNDATION	541+50	72.5' RT	87800400	566
30" DIA. CONCRETE FOUNDATION	555+90	100' LT	87800400	567
ELECTRIC SERVICE	579+44	202' RT	80400100, 80400200	569
30" DIA. CONCRETE FOUNDATION	582+00	90' RT	87800400	569
30" DIA. CONCRETE FOUNDATION	588+15	87' RT	87800400	570
30" DIA. CONCRETE FOUNDATION	596+00	88' LT	87800400	570
ELECTRIC SERVICE	602+53	115' LT	80400100, 80400200	571
30" DIA. CONCRETE FOUNDATION	613+60	84.5' LT	87800400	572
334 CABINET FOUNDATION	625+85	83' LT	87800400	573
30" DIA. CONCRETE FOUNDATION	628+75	83' LT	X8780200	573



NOTES

1. PRIOR TO REMOVING HANDHOLE, COORDINATE WITH CONTRACT 62R27 TO ENSURE THAT CABLES TO THE WEST HAVE BEEN REMOVED.

KEY PLAN



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**TranSmart**  
100 S. Wacker Drive Suite 400  
Chicago, Illinois 60606

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ITS REMOVAL PLANS

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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62R89				
ILLINOIS FED. AID PROJECT				

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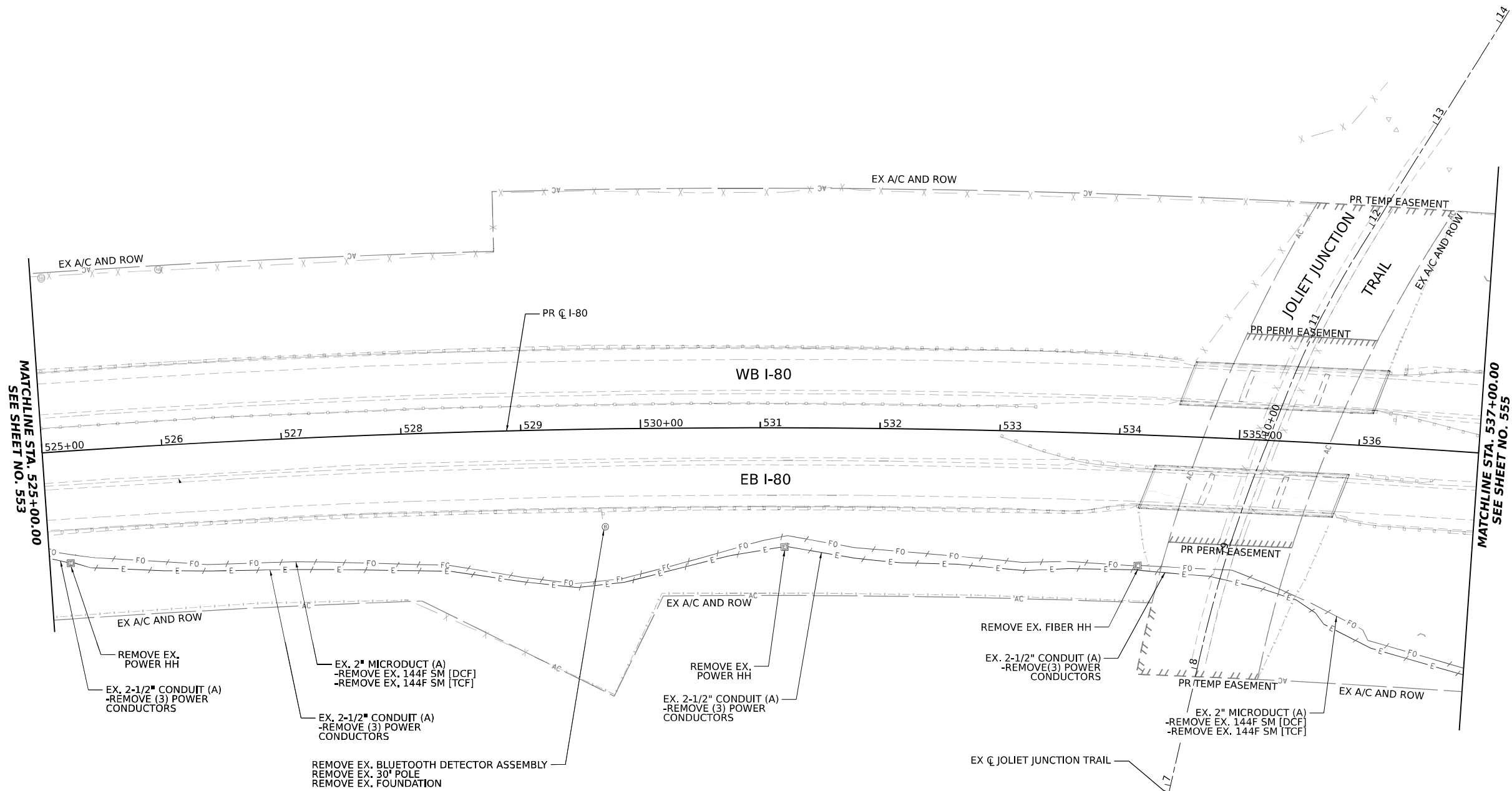
**TranSmart**  
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Chicago, Illinois 60606

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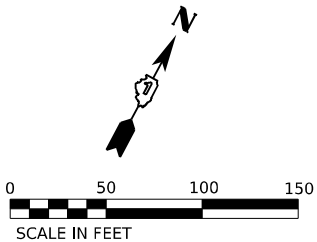
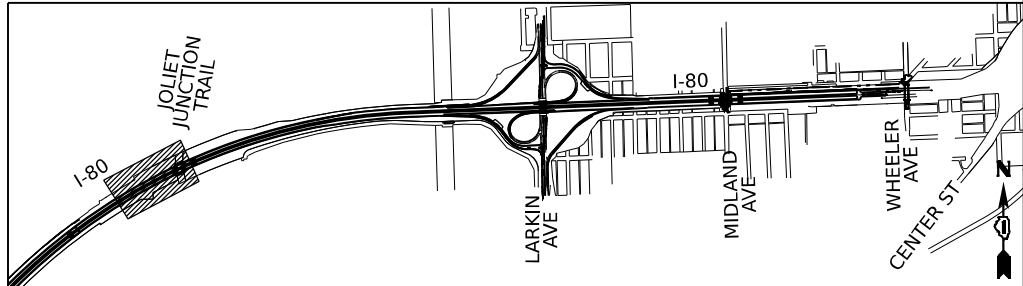
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

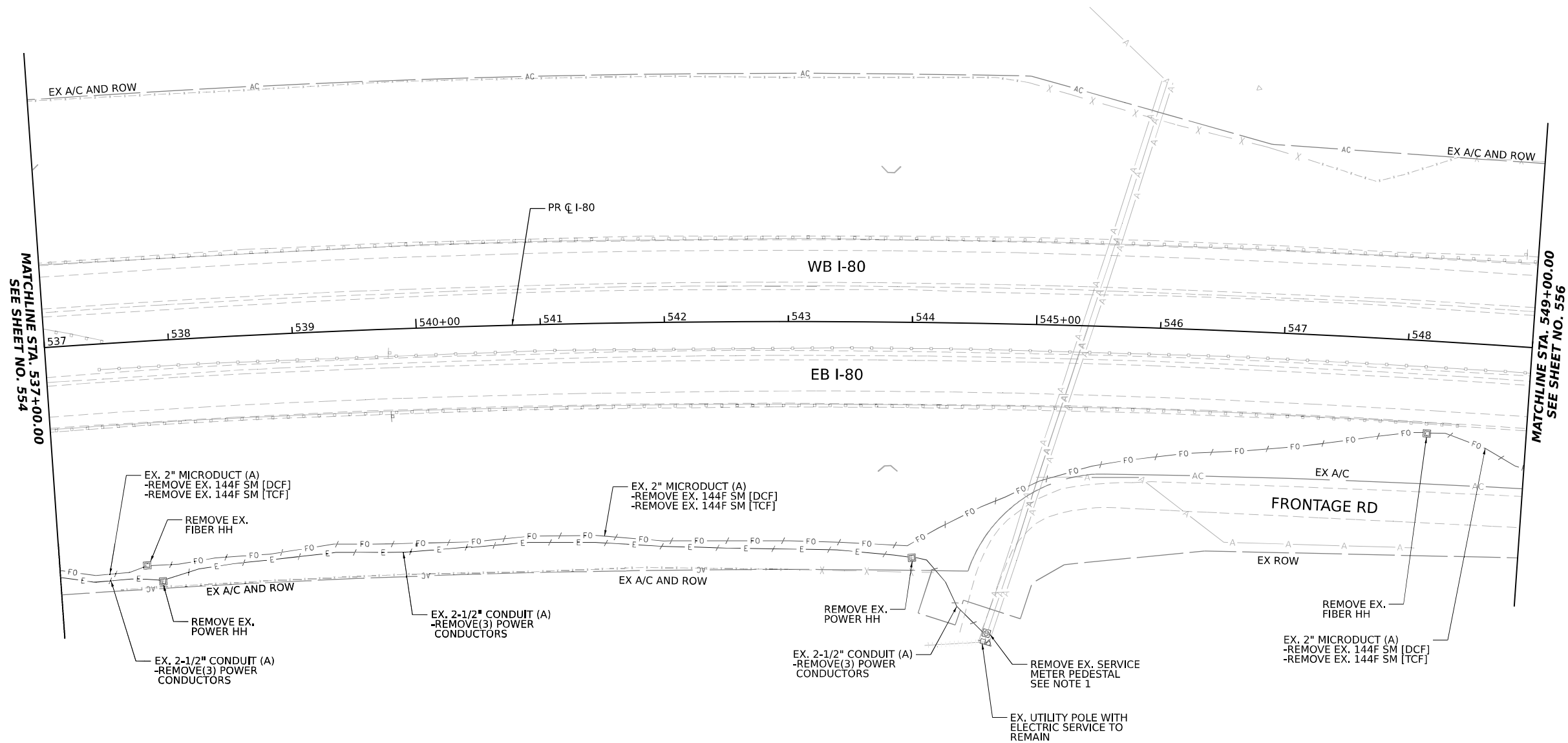
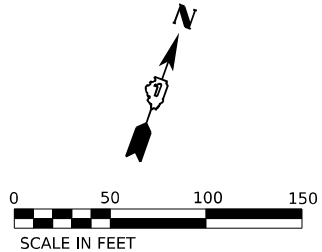
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I-80	FAI 80 22 BR	WILL	1201	554
CONTRACT NO. 62R89				
ILLINOIS FED. AID PROJECT				



KEY PLAN

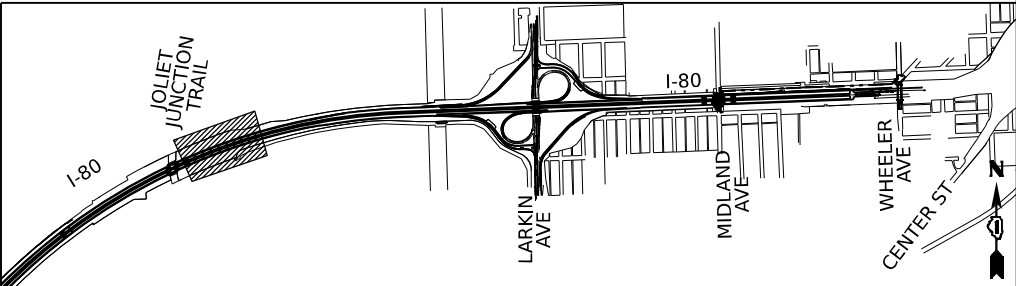




NOTES

1. REMOVAL OF THE SERVICE METER PEDESTAL WILL BE PAID FOR AS PAY ITEM 84500120 (REMOVAL OF ELECTRIC SERVICE INSTALLATION). NEW SERVICE PEDSTAL TO BE INSTALLED UTILIZING THE EXISTING ELECTRIC SERVICE (SEE ITS INFRASTRUCTURE PLANS).

KEY PLAN



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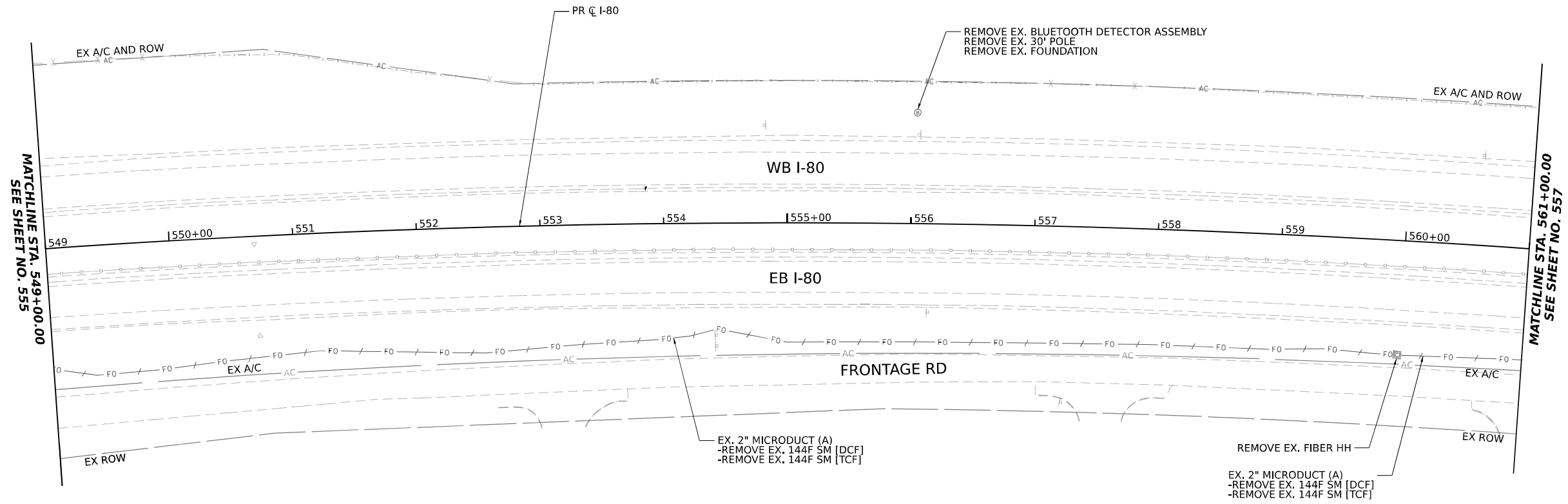
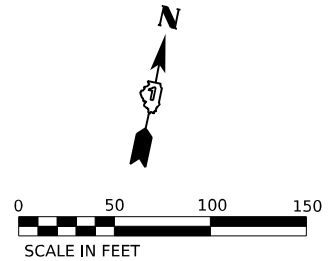
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

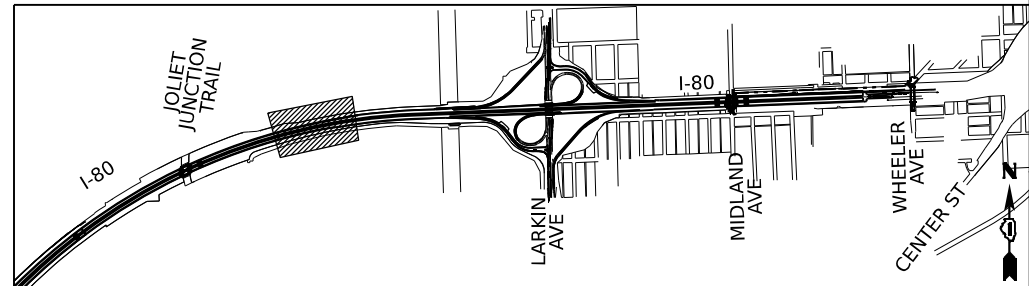
ITS REMOVAL PLANS

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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62R89				
ILLINOIS   FED. AID PROJECT				



KEY PLAN



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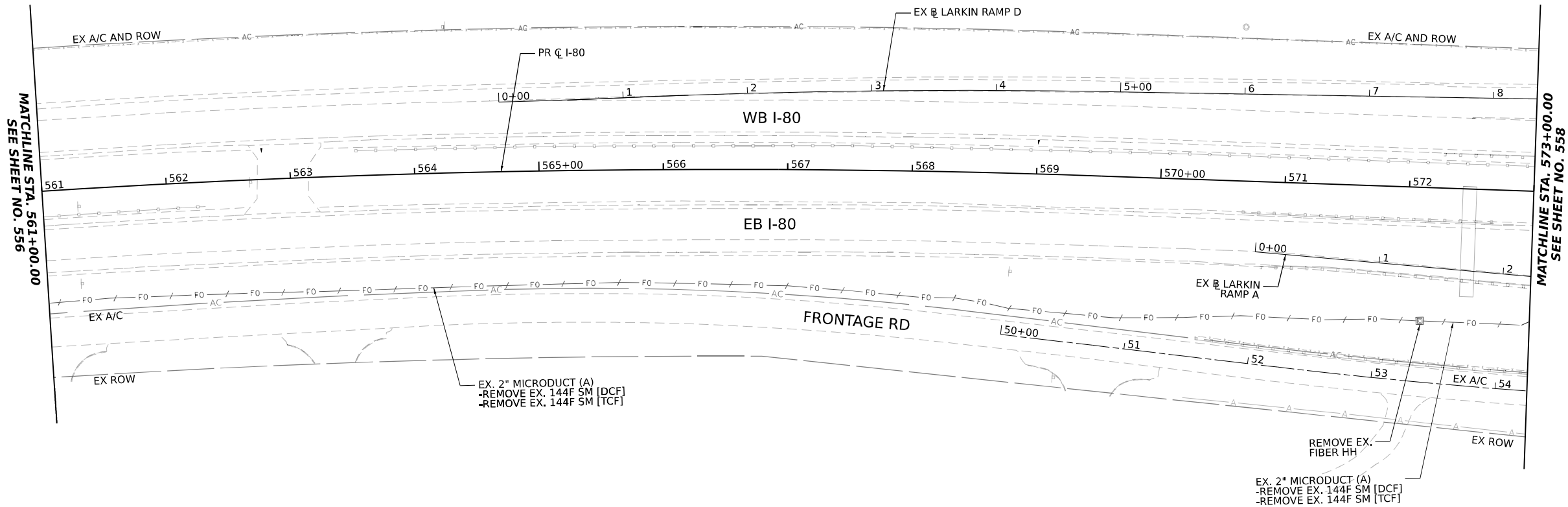
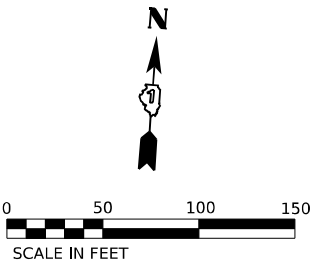
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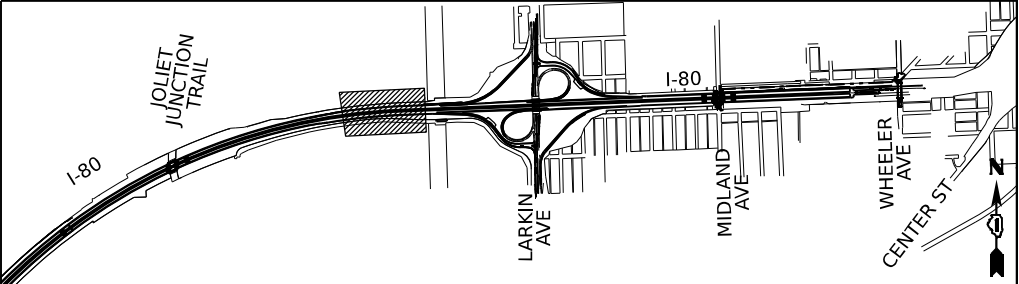
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ITS REMOVAL PLANS			
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62R89				
ILLINOIS FED. AID PROJECT				



KEY PLAN



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DRAWN	- DJM	REVIS	-		
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

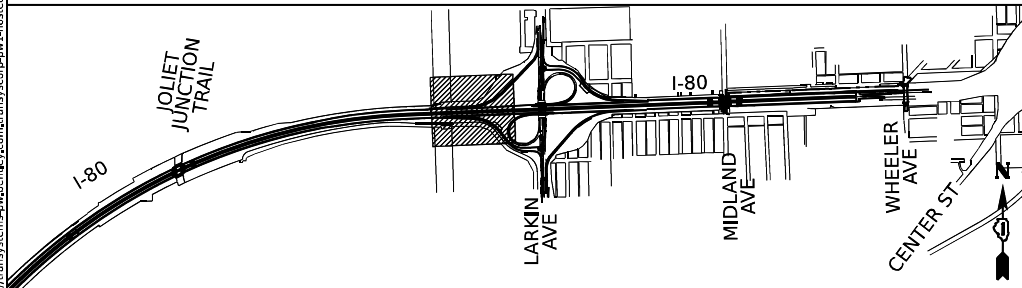
ITS REMOVAL PLANS

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CONTRACT NO. 62R89				
ILLINOIS FED. AID PROJECT				

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KEY PLAN



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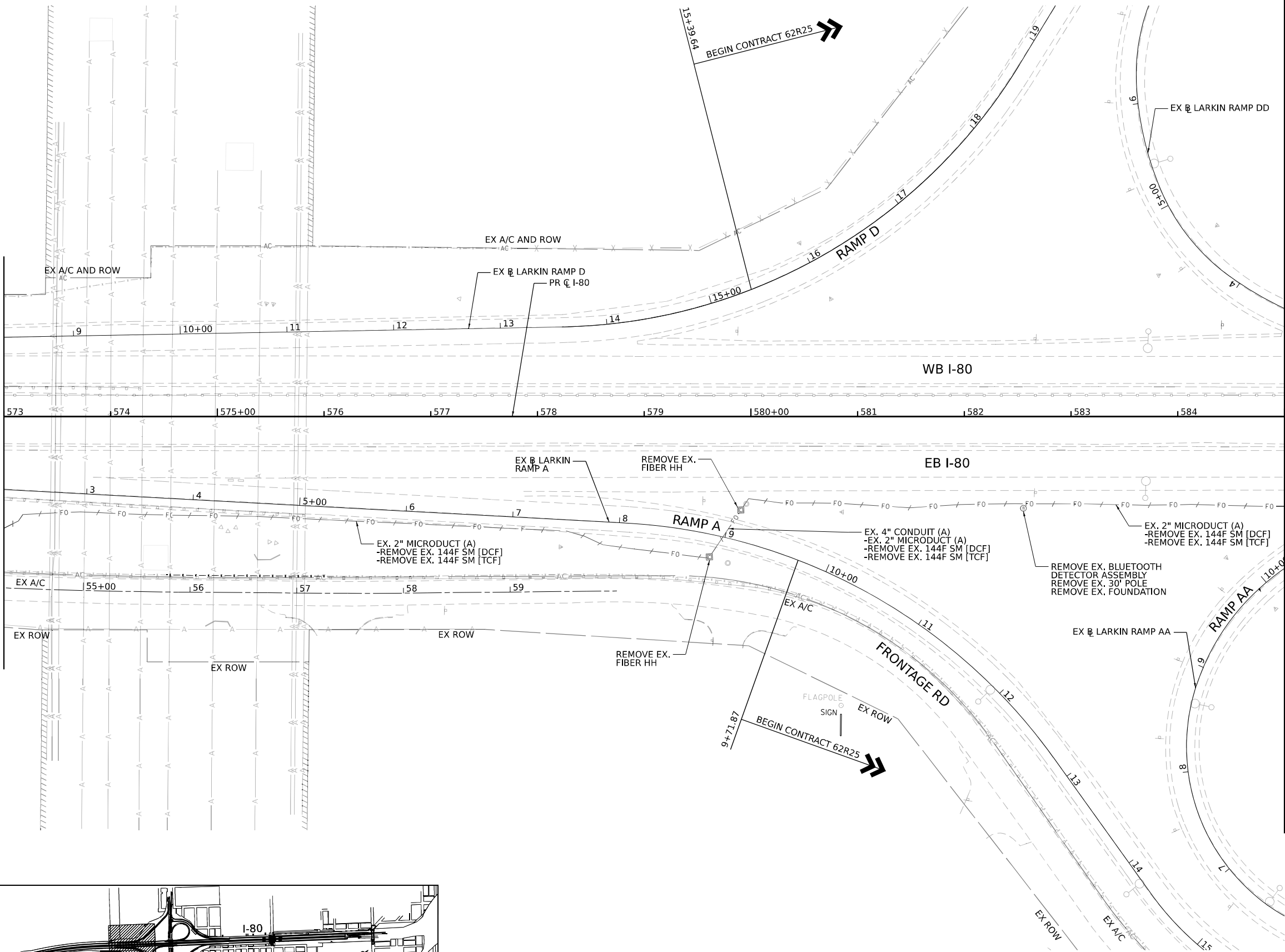
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ITS REMOVAL PLANS

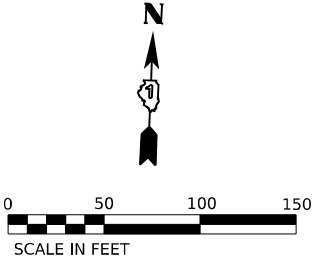
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 22 BR	WILL	1201	558
				CONTRACT NO. 62R89
ILLINOIS   FED. AID PROJECT				

SEE SHEET NO. 557  
MATCHLINE STA. 573+00.00



MATCHLINE STA. 585+00.00  
SEE SHEET NO. 559





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**TranSmart**  
100 S. Wacker Drive Suite 400  
Chicago, Illinois 60606

USER NAME	dmler	DESIGNED	DJM	REVISED	
		DRAWN	DJM	REVISED	
PLOT SCALE	0.16666633 1/In.	CHECKED	REL	REVISED	
PLOT DATE	10/5/2023	DATE	10/6/23	REVISED	

DESIGNED	DJM	REVISED	
DRAWN	DJM	REVISED	
CHECKED	REL	REVISED	
DATE	10/6/23	REVISED	

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

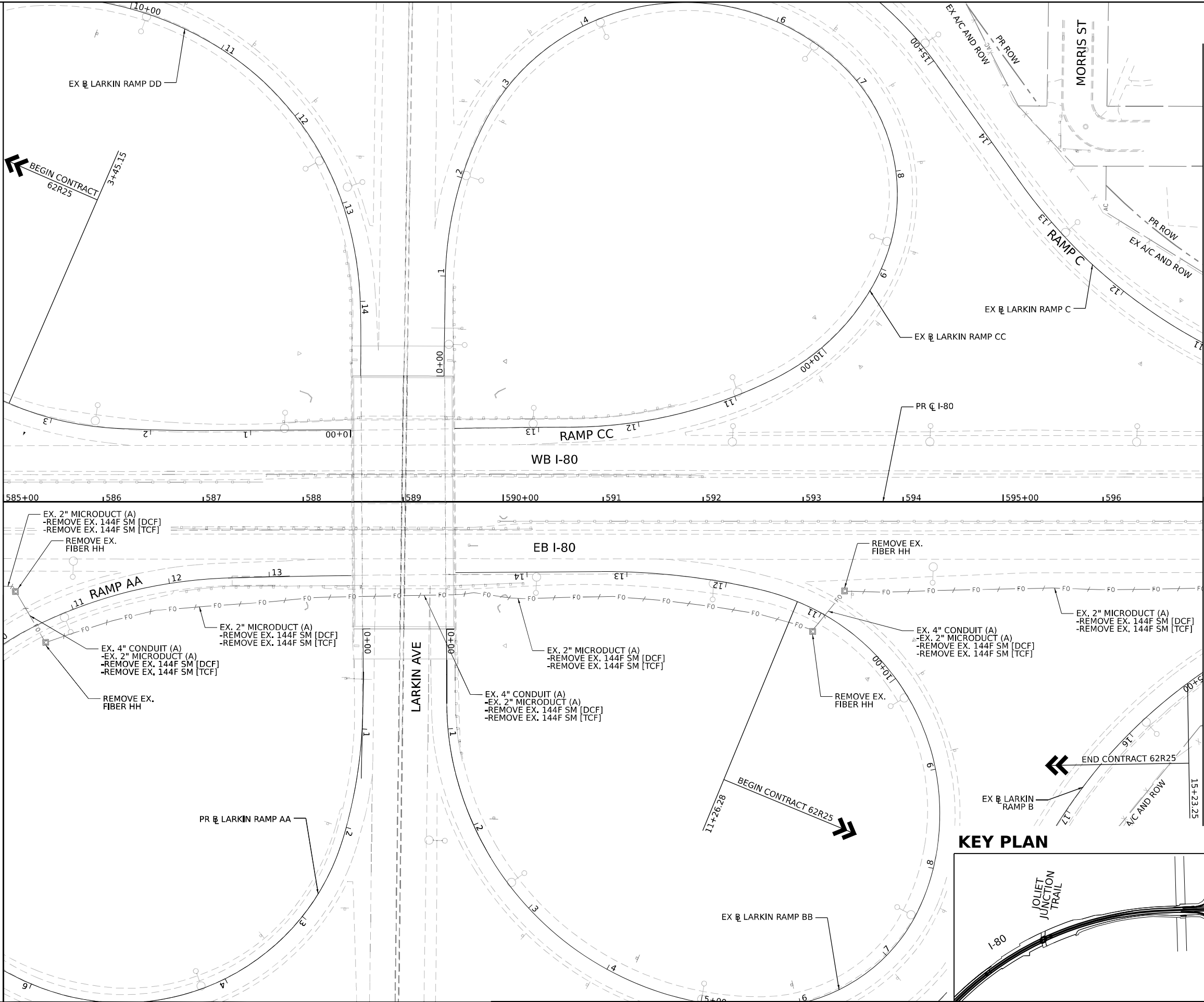
ITS REMOVAL PLANS

SCALE: 1"=50'    SHEET 7    OF 11    SHEETS    STA. 585+00.00    TO STA. 597+00.00

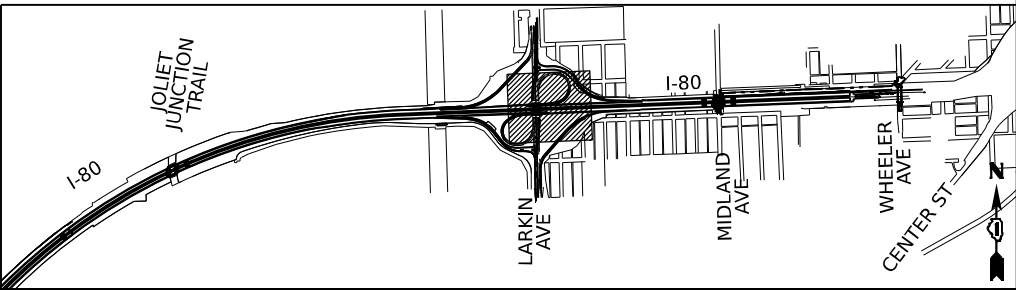
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I-80	FAI 80 22 BR	WILL	1201	559
CONTRACT NO. 62R89				
ILLINOIS   FED. AID PROJECT				

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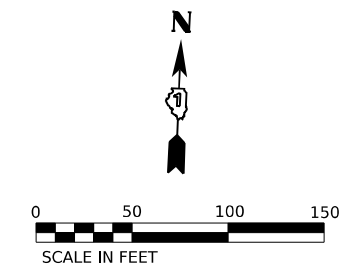
MATCHLINE STA. 597+00.00  
SEE SHEET NO. 560



KEY PLAN







- ## KEY PLAN



MODEL: C:\p\B0\_641\_Plan 10 (Sheet)  
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TranSmart

100 S. Wacker Drive Suite 400  
Chicago, Illinois 60606

USER NAME	dmler	DESIGNED	DJM	REVISED	-
DRAWN	DJM	REVIS	-	REVIS	-
PLOT SCALE	0.16666633 1/1 in.	CHECKED	REL	REVIS	-
PLOT DATE	10/5/2023	DATE	10/6/23	REVIS	-

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ITS REMOVAL PLANS

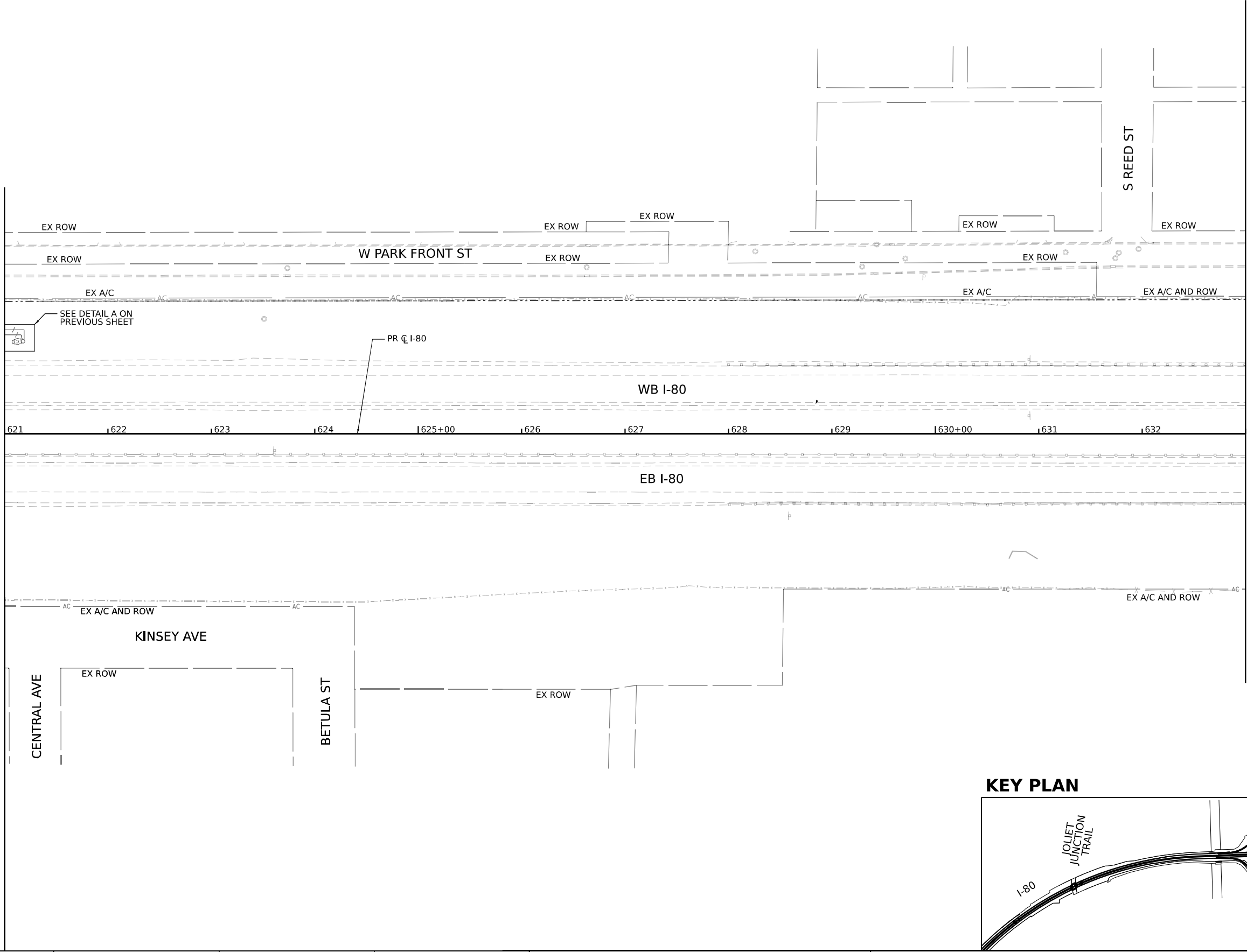
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SHEET 10 OF 11 SHEETS

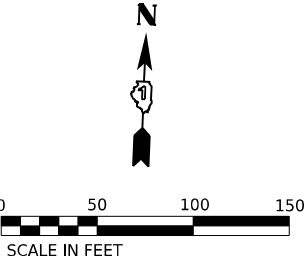
STA. 621+00.00 TO STA. 633+00.00

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CONTRACT NO. 62R89				
		ILLINOIS	FED. AID PROJECT	

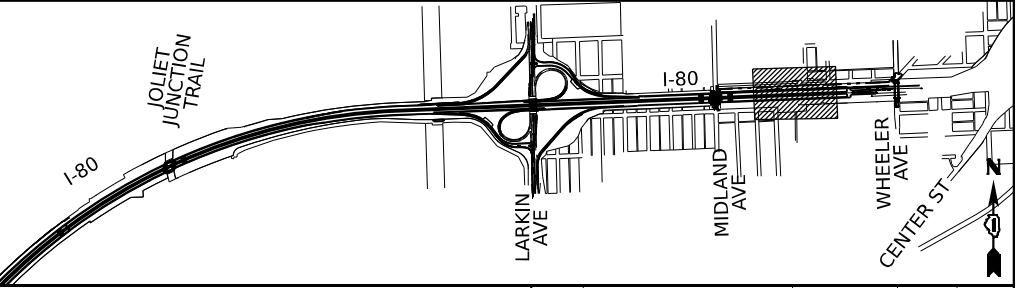
SEE SHEET NO. 561  
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MATCHLINE STA. 633+00.00  
SEE SHEET NO. 563



KEY PLAN



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**TranSmart**  
100 S. Wacker Drive Suite 400  
Chicago, Illinois 60606

USER NAME	■ dmeter	DESIGNED	- DJM	REVISED	-
DRAWN	- DJM	REVISION	-		
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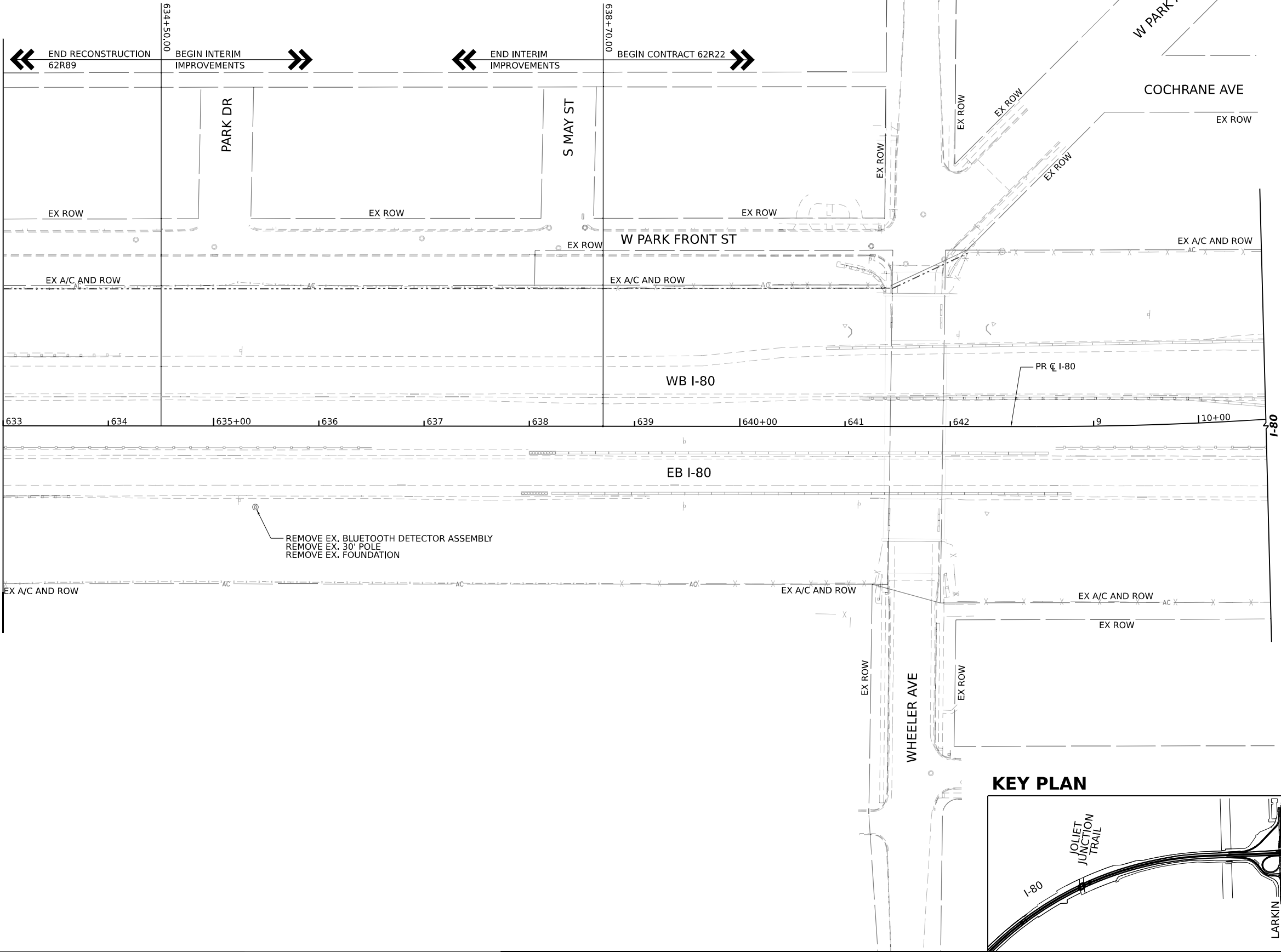
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ITS REMOVAL PLANS

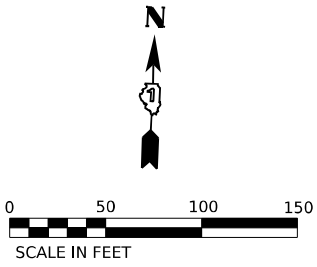
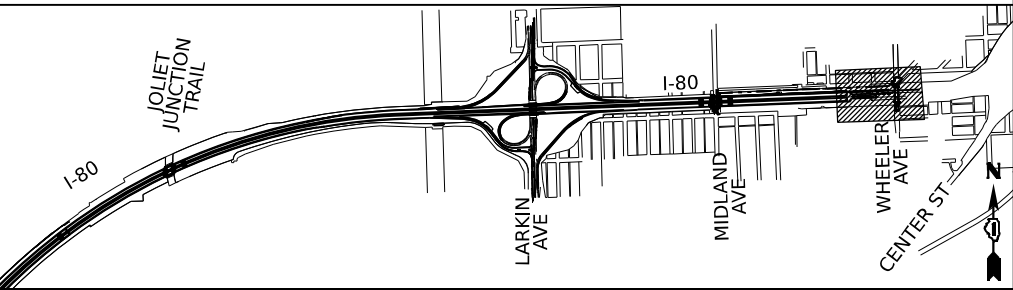
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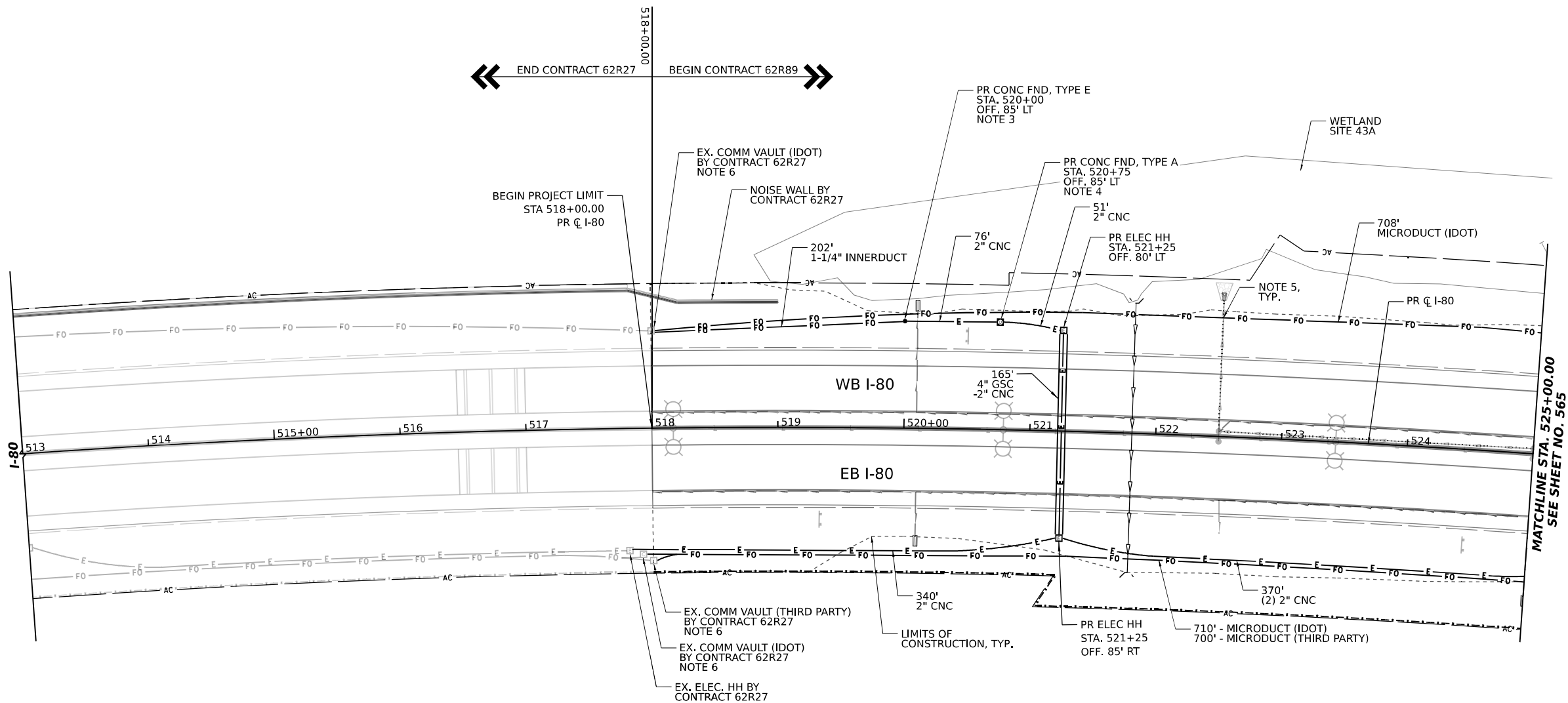
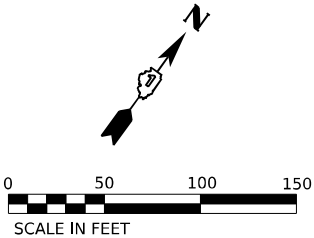
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I-80	FAI 80 22 BR	WILL	1201	563
CONTRACT NO. 62R89				
ILLINOIS FED. AID PROJECT				

SEE SHEET NO. 562  
MATCHLINE STA. 633+00.00



KEY PLAN

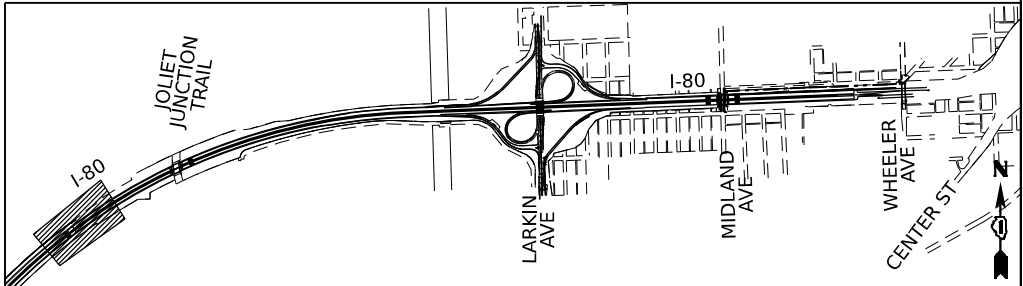




NOTES:

1. IDOT MICRODUCT SHALL ONLY ENTER IDOT COMMUNICATIONS VAULTS.
2. THIRD PARTY MICRODUCT SHALL ONLY ENTER THIRD PARTY COMMUNICATION VAULTS.
3. 2" CNC CONDUIT SHALL BE COUPLED TO THE 2" CONCRETE FOUNDATION CONDUIT STUB OUT. 1-1/4" INNERDUCT SHALL BE INSTALLED IN THE OTHER 2" CONCRETE FOUNDATION CONDUIT STUB OUT UP THROUGH THE TOP OF THE FOUNDATION.
4. THE 2" CNC CONDUITS SHALL BE COUPLED TO THE 2" CONCRETE FOUNDATION CONDUIT STUB OUTS.
5. COORDINATE INSTALLATION WITH DRAINAGE. MAINTAIN MINIMUM 18" CLEARANCE BETWEEN ITS MICRODUCT/CONDUIT AND DRAINAGE PIPES/STRUCTURES/UNDERDRAIN, TYP.
6. CONTRACTOR SHALL NOT DRILL EXISTING COMMUNICATIONS VAULTS. ALL CONDUITS SHALL ENTER THE VAULT THROUGH THE BOTTOM.

KEY PLAN



MODEL: C:\p\p0\_54\_1\Plan 1 (Sheet)  
FILE NAME: p:\p0\_54\_1\plan1.dwg  
PROJECT: I-80 Interchange  
SHEET: 1201  
DATE: 10/5/2023

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Chicago, Illinois 60606

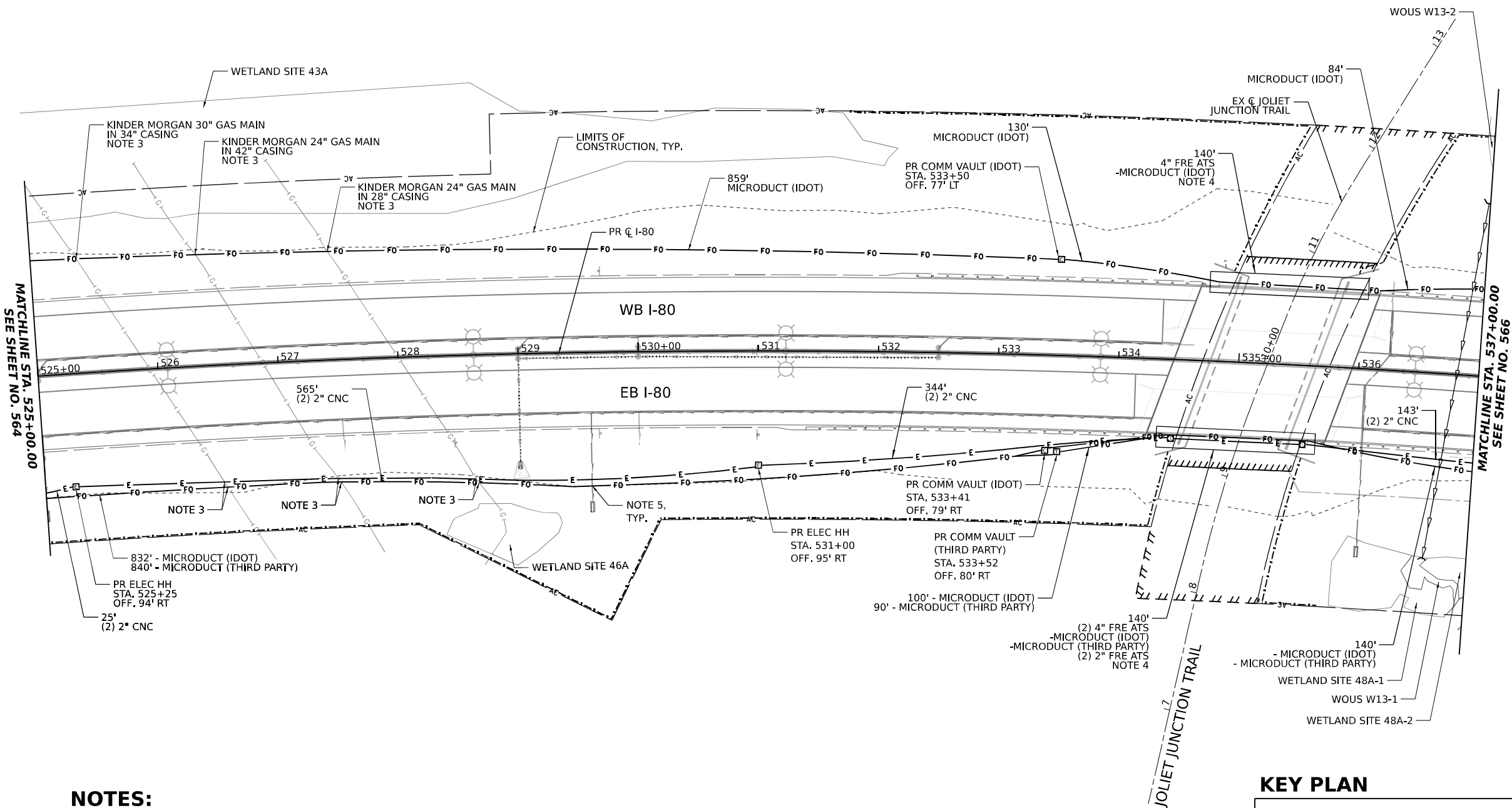
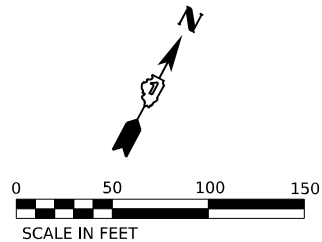
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PLOT DATE	10/5/2023	DATE	9/15/23	REVISED	

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ITS INFRASTRUCTURE PLANS

SCALE: 1"=50' SHEET 1 OF 11 SHEETS STA. 518+00.00 TO STA. 525+00.00

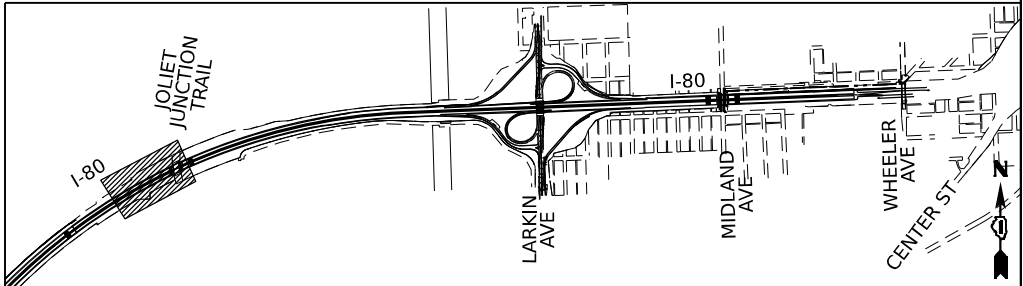
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 22 BR	WILL	1201	564
CONTRACT NO. 62R89				
ILLINOIS FED. AID PROJECT				



**NOTES:**

1. IDOT MICRODUCT SHALL ONLY ENTER IDOT COMMUNICATIONS VAULTS.
2. THIRD PARTY MICRODUCT SHALL ONLY ENTER THIRD PARTY COMMUNICATION VAULTS.
3. GAS/OIL PIPELINE PROTECTION. SEE SPECIAL PROVISION FOR DETAILS.
4. SEE SHEETS 583 AND 584 FOR CONDUIT ATTACHED TO STRUCTURE DETAILS.
5. COORDINATE INSTALLATION WITH DRAINAGE. MAINTAIN MINIMUM 18" CLEARANCE BETWEEN ITS MICRODUCT/CONDUIT AND DRAINAGE PIPES/STRUCTURES/UNDERDRAIN, TYP.

**KEY PLAN**



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Chicago, Illinois 60606

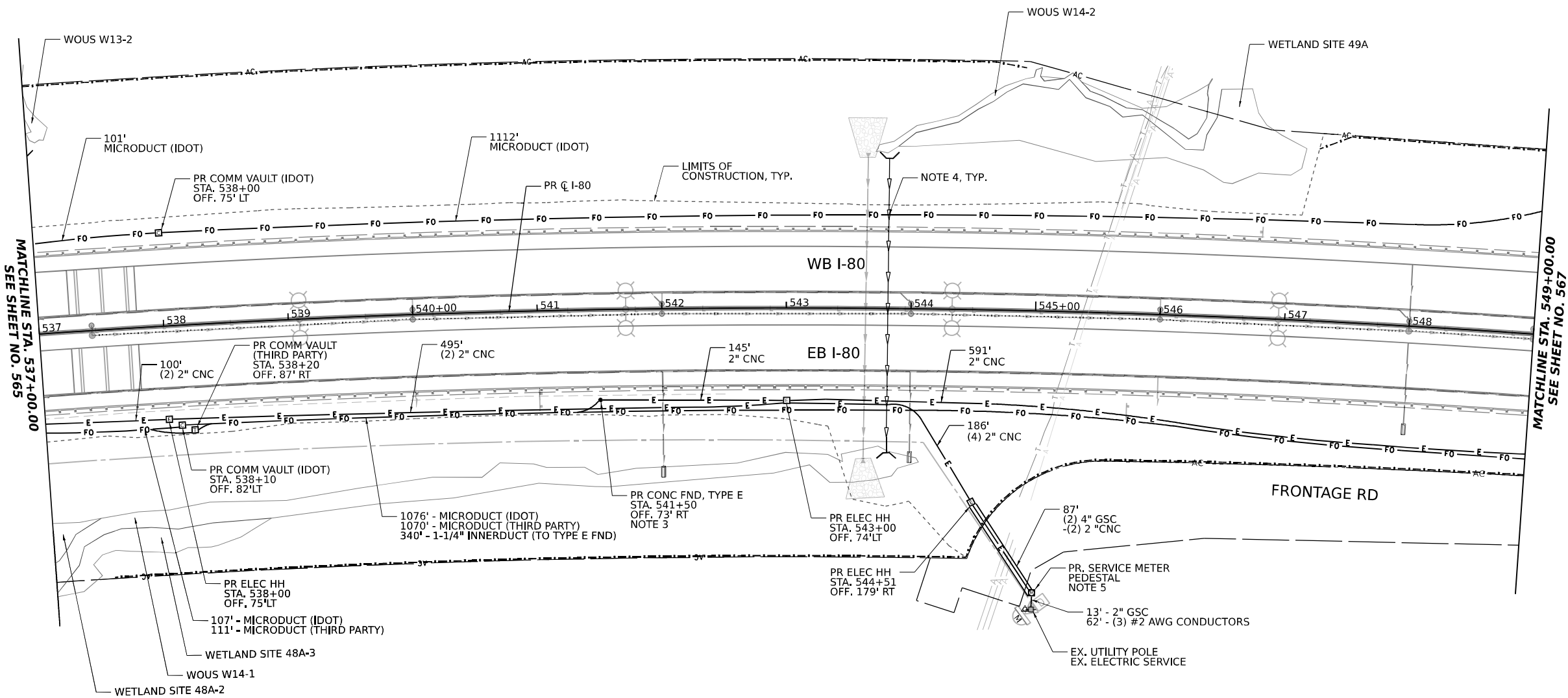
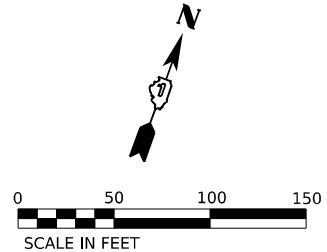
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PLOT SCALE	0.16666633 1/16"	CHECKED	REL	REVISED	
PLOT DATE	10/5/2023	DATE	9/15/23	REVISED	

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ITS INFRASTRUCTURE PLANS**

SCALE: 1"=50'    SHEET 2    OF 11    SHEETS    STA. 525+00.00    TO STA. 537+00.00

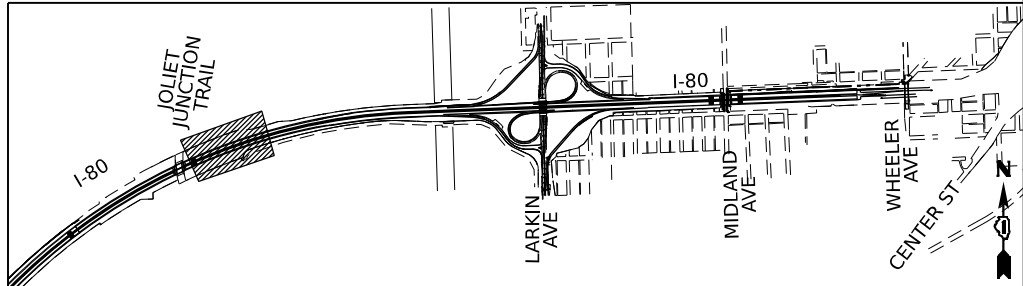
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 22 BR	WILL	1201	565
CONTRACT NO. 62R89				
ILLINOIS FED. AID PROJECT				



**NOTES:**

1. IDOT MICRODUCT SHALL ONLY ENTER IDOT COMMUNICATIONS VAULTS.
2. THIRD PARTY MICRODUCT SHALL ONLY ENTER THIRD PARTY COMMUNICATION VAULTS.
3. 2" CNC CONDUIT SHALL BE COUPLED TO THE 2" CONCRETE FOUNDATION CONDUIT STUB OUT. 1-1/4" INNERDUCT SHALL BE INSTALLED IN THE OTHER 2" CONCRETE FOUNDATION CONDUIT STUB OUT UP THROUGH THE TOP OF THE FOUNDATION.
4. COORDINATE INSTALLATION WITH DRAINAGE. MAINTAIN MINIMUM 18" CLEARANCE BETWEEN ITS MICRODUCT/CONDUIT AND DRAINAGE PIPES/STRUCTURES/UNDERDRAIN, TYP.
5. EXISTING ELECTRIC SERVICE TO REMAIN. PROPOSED ELECTRIC SERVICE METER PEDESTAL SHALL BE PAID FOR AS 80400100 (ELECTRIC SERVICE INSTALLATION).

**KEY PLAN**



**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ITS INFRASTRUCTURE PLANS**

SCALE: 1"=50'    SHEET 3    OF 11    SHEETS    STA. 537+00.00    TO STA. 549+00.00

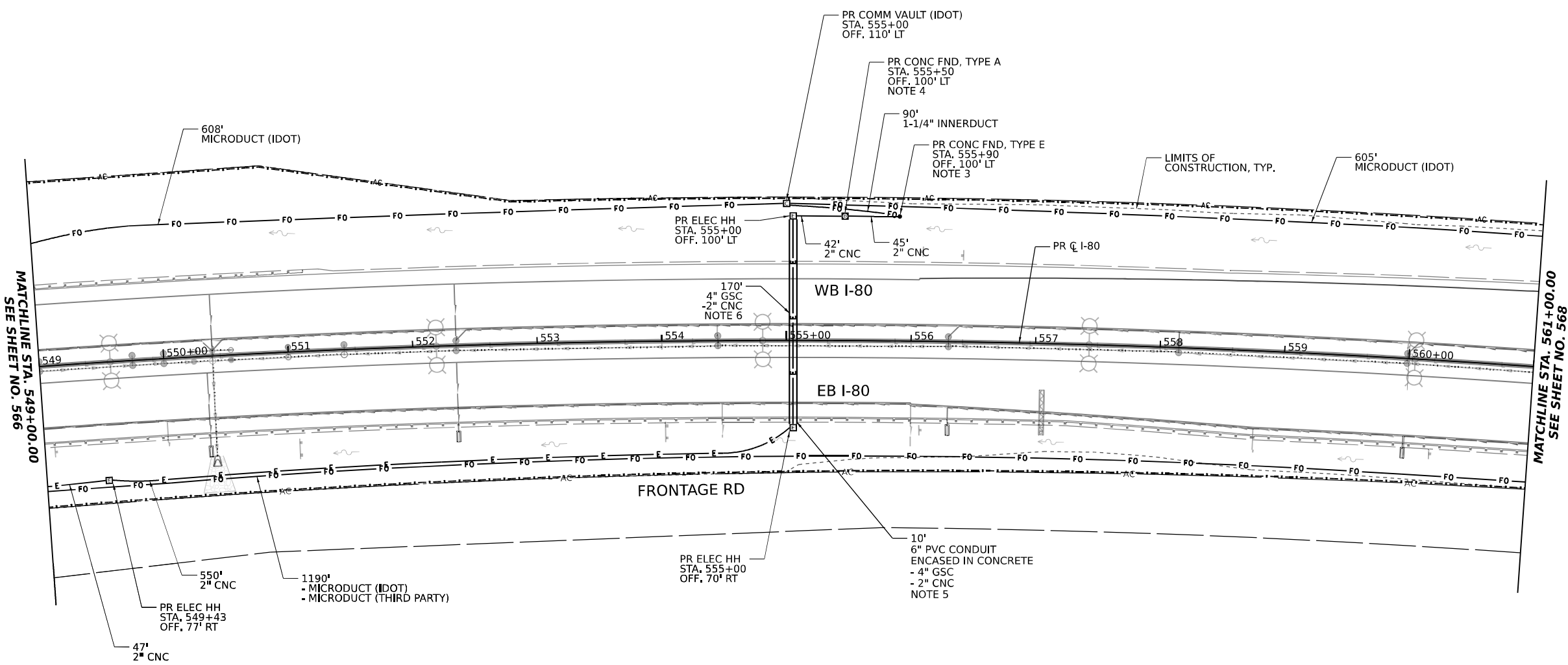
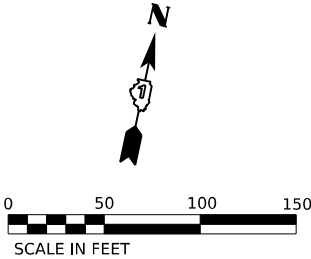
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 22 BR	WILL	1201	566
CONTRACT NO. 62R89				
ILLINOIS FED. AID PROJECT				

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PROJECT: 2018\CH401\401180022\02-Trans\Systems\CAD\62R89\Sheets\22-ITS ITS.DWG

**TranSmart**  
100 S. Wacker Drive Suite 400  
Chicago, Illinois 60606

USER NAME	dmler	DESIGNED	DJM	REVISED	-
		DRAWN	DJM	REVISED	-
PLOT SCALE	0.16666633 1/16"	CHECKED	REL	REVISED	-
PLOT DATE	10/5/2023	DATE	9/15/23	REVISED	-

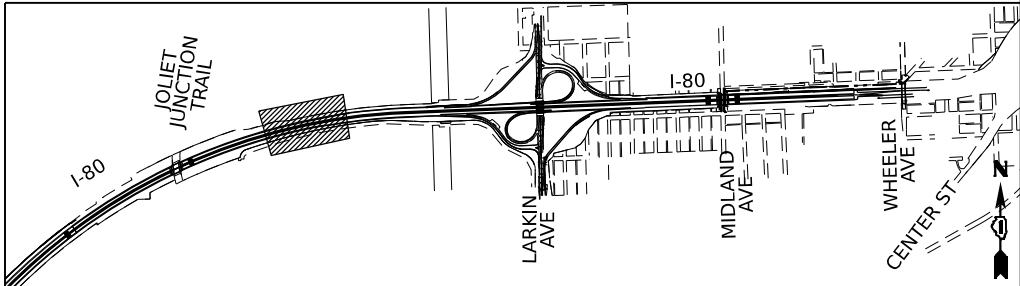




NOTES:

1. IDOT MICRODUCT SHALL ONLY ENTER IDOT COMMUNICATIONS VAULTS.
2. THIRD PARTY MICRODUCT SHALL ONLY ENTER THIRD PARTY COMMUNICATION VAULTS.
3. 2" CNC CONDUIT SHALL BE COUPLED TO THE 2" CONCRETE FOUNDATION CONDUIT STUB OUT. 1-1/4" INNERDUCT SHALL BE INSTALLED IN THE OTHER 2" CONCRETE FOUNDATION CONDUIT STUB OUT UP THROUGH THE TOP OF THE FOUNDATION.
4. THE 2" CNC CONDUIT SHALL BE COUPLED TO THE 2" CONCRETE FOUNDATION CONDUIT STUB OUT.
5. COORDINATE INSTALLATION WITH GUARDRAIL. CENTER THE PVC CONDUIT ENCASED IN CONCRETE ON THE PROPOSED GUARDRAIL AND IN BETWEEN POSTS.
6. DEPTH IN ADDITION TO THE TYPICAL 5' BELOW TOP OF PROPOSED PAVEMENT WILL BE REQUIRED IN ORDER TO PROVIDE A MINIMUM 18" CLEARANCE TO PROPOSED STORM SEWER. COORDINATE INSTALLATION WITH DRAINAGE.

KEY PLAN



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Chicago, Illinois 60606

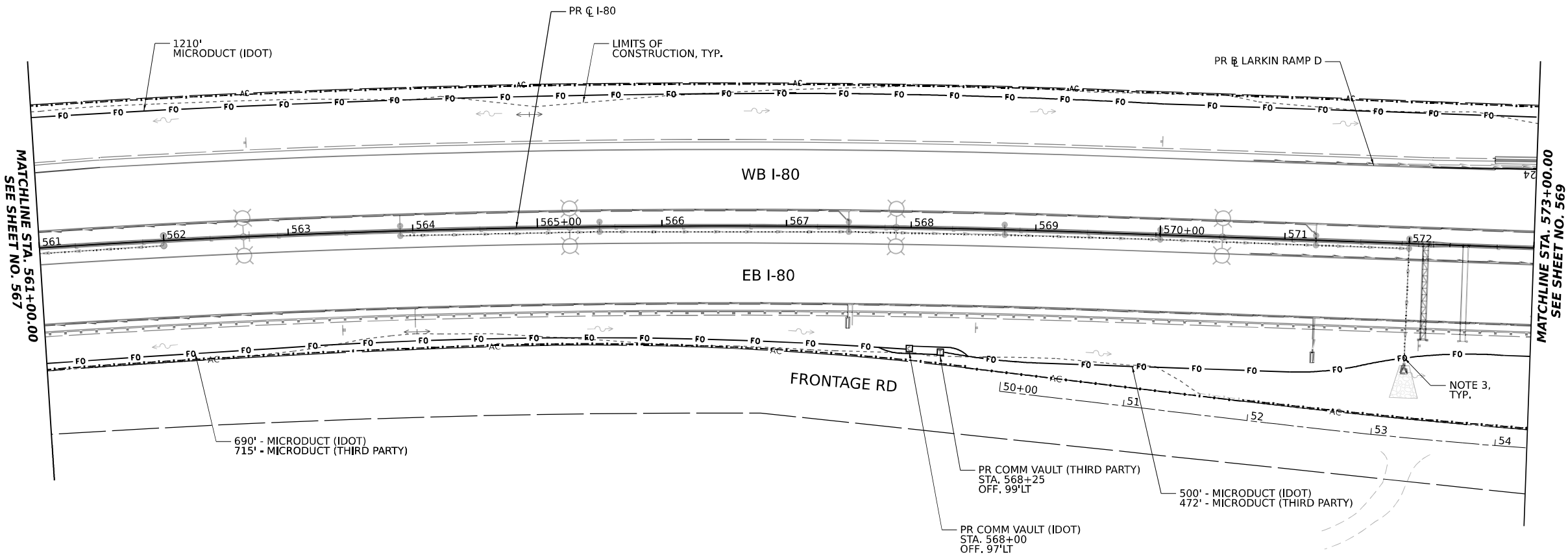
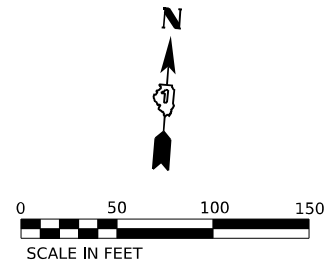
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PLOT DATE	10/5/2023	DATE	9/15/23	REVISED	

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ITS INFRASTRUCTURE PLANS

SCALE: 1"=50' SHEET 4 OF 11 SHEETS STA. 549+00.00 TO STA. 561+00.00

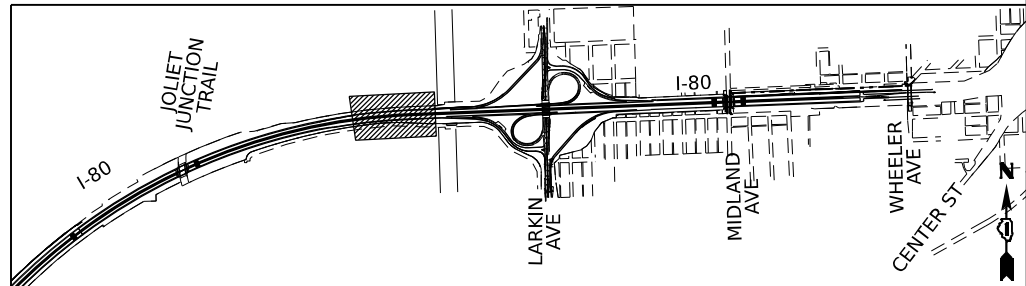
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I-80	FAI 80 22 BR	WILL	1201	567
CONTRACT NO. 62R89				
ILLINOIS FED. AID PROJECT				



NOTES:

1. IDOT MICRODUCT SHALL ONLY ENTER IDOT COMMUNICATIONS VAULTS.
2. THIRD PARTY MICRODUCT SHALL ONLY ENTER THIRD PARTY COMMUNICATION VAULTS.
3. COORDINATE INSTALLATION WITH DRAINAGE. MAINTAIN MINIMUM 18" CLEARANCE BETWEEN ITS MICRODUCT/CONDUIT AND DRAINAGE PIPES/STRUCTURES/UNDERDRAIN, TYP.

KEY PLAN



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ITS INFRASTRUCTURE PLANS

SCALE: 1"=50' SHEET 5 OF 11 SHEETS STA. 561+00.00 TO STA. 573+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 22 BR	WILL	1201	568
CONTRACT NO. 62R89				
ILLINOIS FED. AID PROJECT				

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**TranSmart**  
100 S. Wacker Drive Suite 400  
Chicago, Illinois 60606

USER NAME	dmler	DESIGNED	DJM	REVISED	-
		DRAWN	DJM	REVISED	-
PLOT SCALE	0.16666633 1/16"	CHECKED	REL	REVISED	-
PLOT DATE	10/5/2023	DATE	9/15/23	REVISED	-

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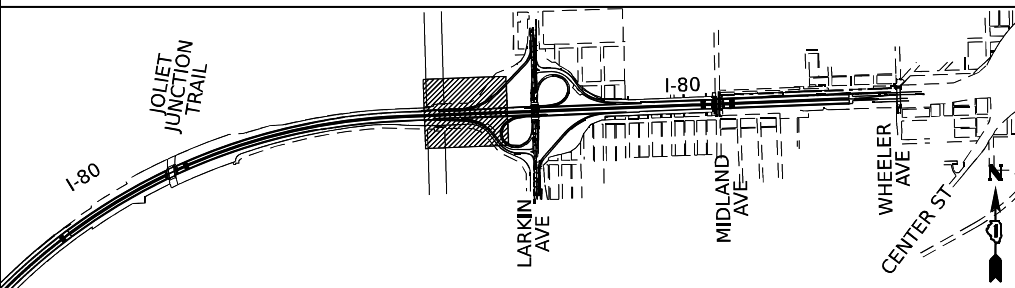
SEE SHEET NO. 568  
MATCHLINE STA. 573+00.00

MATCHLINE STA. 585+00.00  
SEE SHEET NO. 570

### NOTES:

1. IDOT MICRODUCT SHALL ONLY ENTER IDOT COMMUNICATIONS VAULTS.
2. THIRD PARTY MICRODUCT SHALL ONLY ENTER THIRD PARTY COMMUNICATION VAULTS.
3. GAS/OIL PIPELINE PROTECTION. SEE SPECIAL PROVISIONS FOR DETAILS.
4. COORDINATE INSTALLATION WITH GUARDRAIL. CENTER THE PVC CONDUIT ENCASED IN CONCRETE ON THE PROPOSED GUARDRAIL AND IN BETWEEN POSTS.
5. COORDINATE INSTALLATION WITH DRAINAGE. MAINTAIN MINIMUM 18" CLEARANCE BETWEEN ITS MICRODUCT/CONDUIT AND DRAINAGE PIPES/STRUCTURES/UNDERDRAIN, TYP.
6. 2" CNC CONDUIT SHALL BE COUPLED TO THE 2" CONCRETE FOUNDATION CONDUIT STUB OUT. 1-1/4" INNERDUCT SHALL BE INSTALLED IN THE OTHER 2" CONCRETE FOUNDATION CONDUIT STUB OUT UP THROUGH THE TOP OF THE FOUNDATION.

### KEY PLAN



**TranSmart**  
100 S. Wacker Drive Suite 400  
Chicago, Illinois 60606

USER NAME	dmler
DESIGNED	DJM
DRAWN	DJM
PLOT SCALE	0.16666633 1/16"
CHECKED	REL
DATE	9/15/23
REVIS	

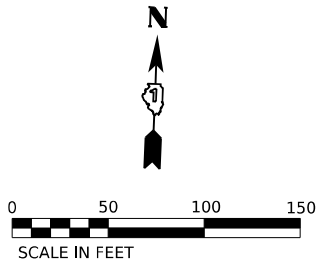
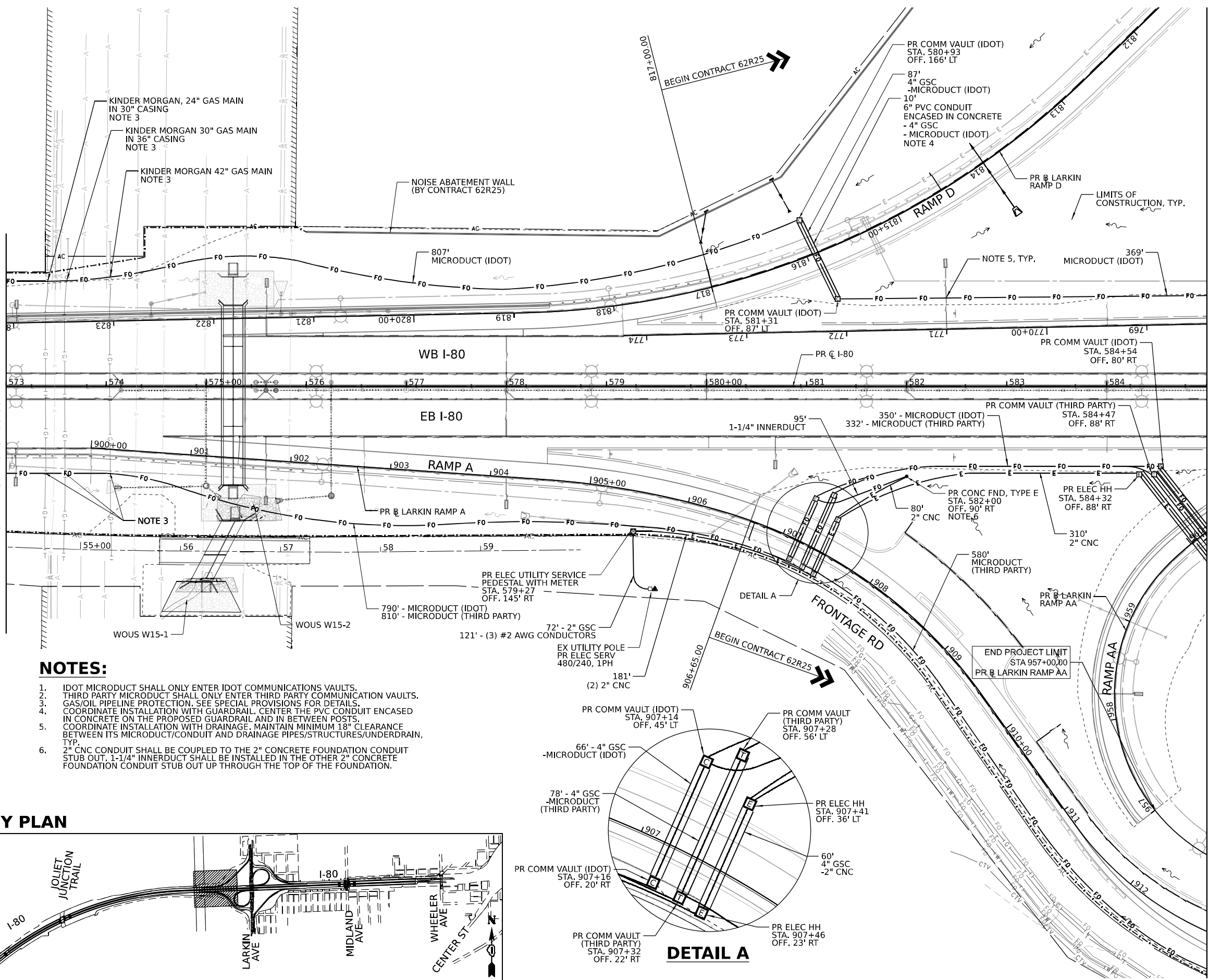
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DRAWN	DJM
CHECKED	REL
DATE	9/15/23
REVIS	

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

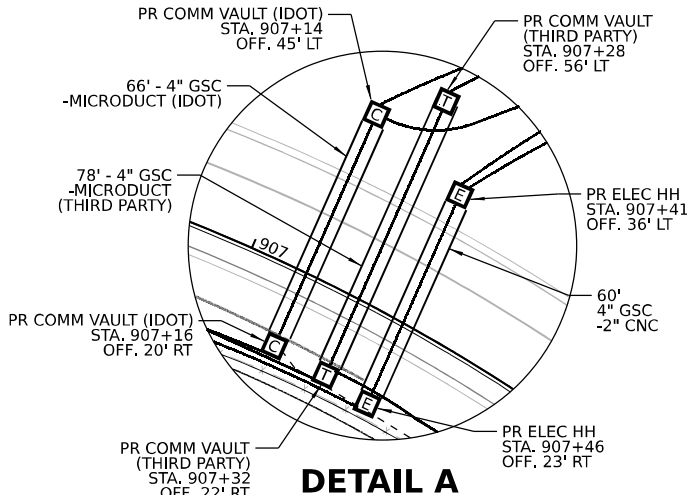
ITS INFRASTRUCTURE PLANS

SCALE: 1"=50' SHEET 6 OF 11 SHEETS STA. 573+00.00 TO STA. 585+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 22 BR	WILL	1201	569
CONTRACT NO. 62R89				
ILLINOIS FED. AID PROJECT				



### DETAIL A



MODEL: C:\PR\_80\_E4-Plan 7 (Sheet)  
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**TranSmart**  
100 S. Wacker Drive Suite 400  
Chicago, Illinois 60606

USER NAME	= dmeler
DESIGNED	- DJM
DRAWN	- DJM
CHECKED	- REL
DATE	- 9/15/23
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PLOT DATE	= 10/5/2023

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DATE	- 9/15/23

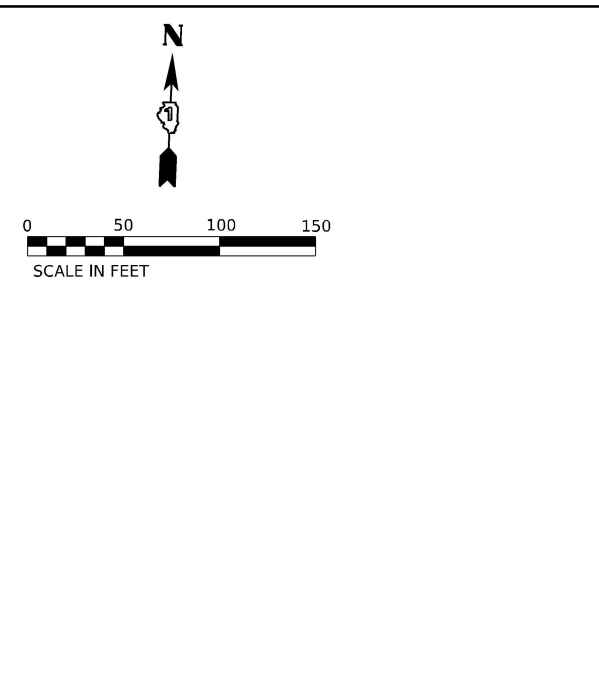
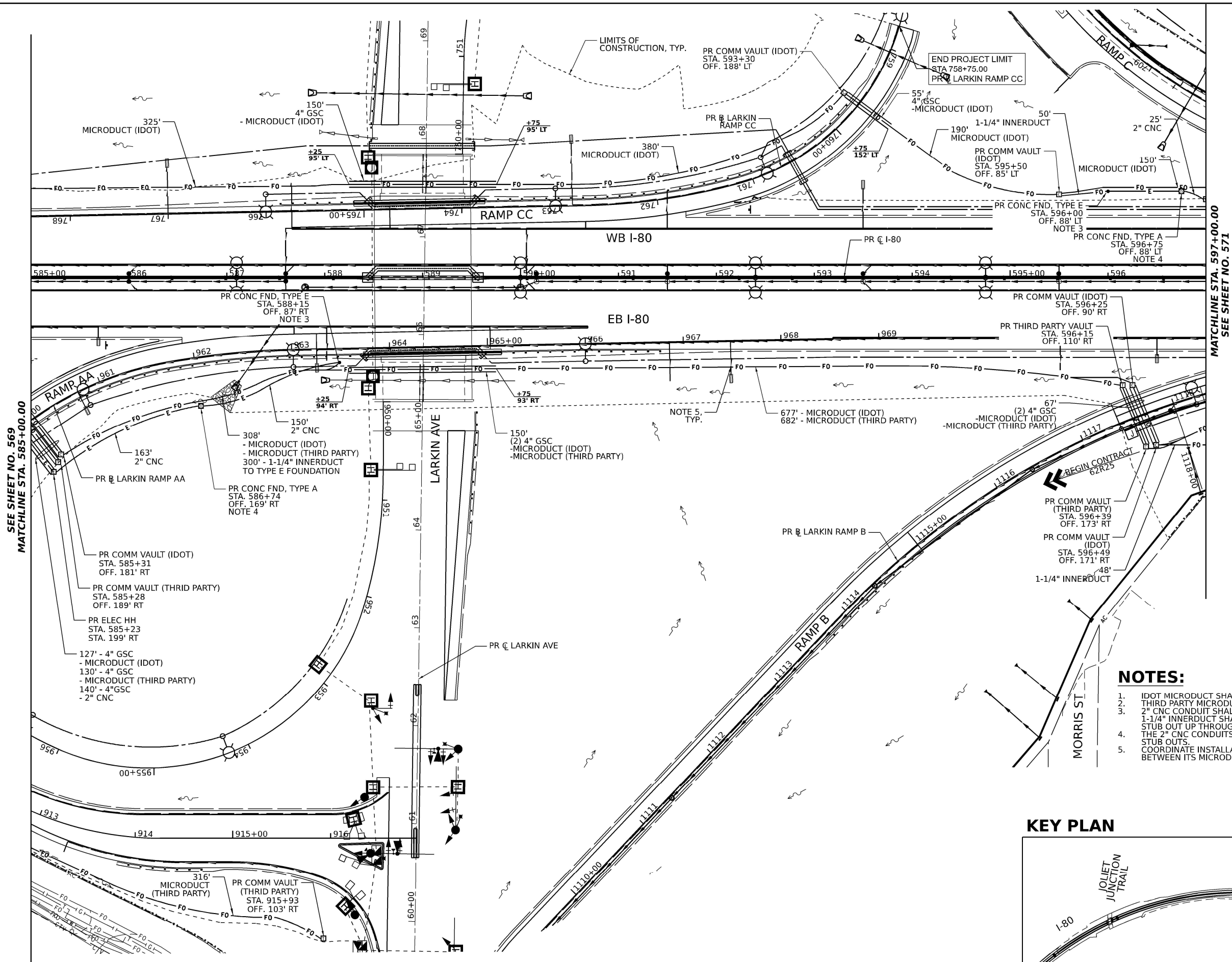
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REVISED	-

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ITS INFRASTRUCTURE PLANS

SCALE: 1"=50' SHEET 7 OF 11 SHEETS STA. 585+00.00 TO STA. 597+00.00

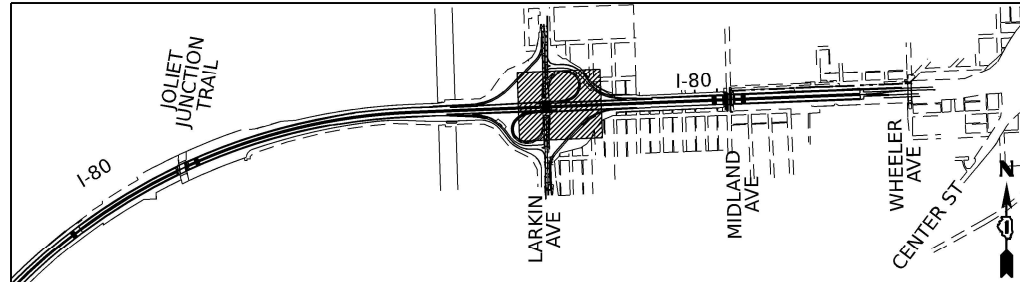
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I-80	FAI 80 22 BR	WILL	1201	570
CONTRACT NO. 62R89				
ILLINOIS   FED. AID PROJECT				

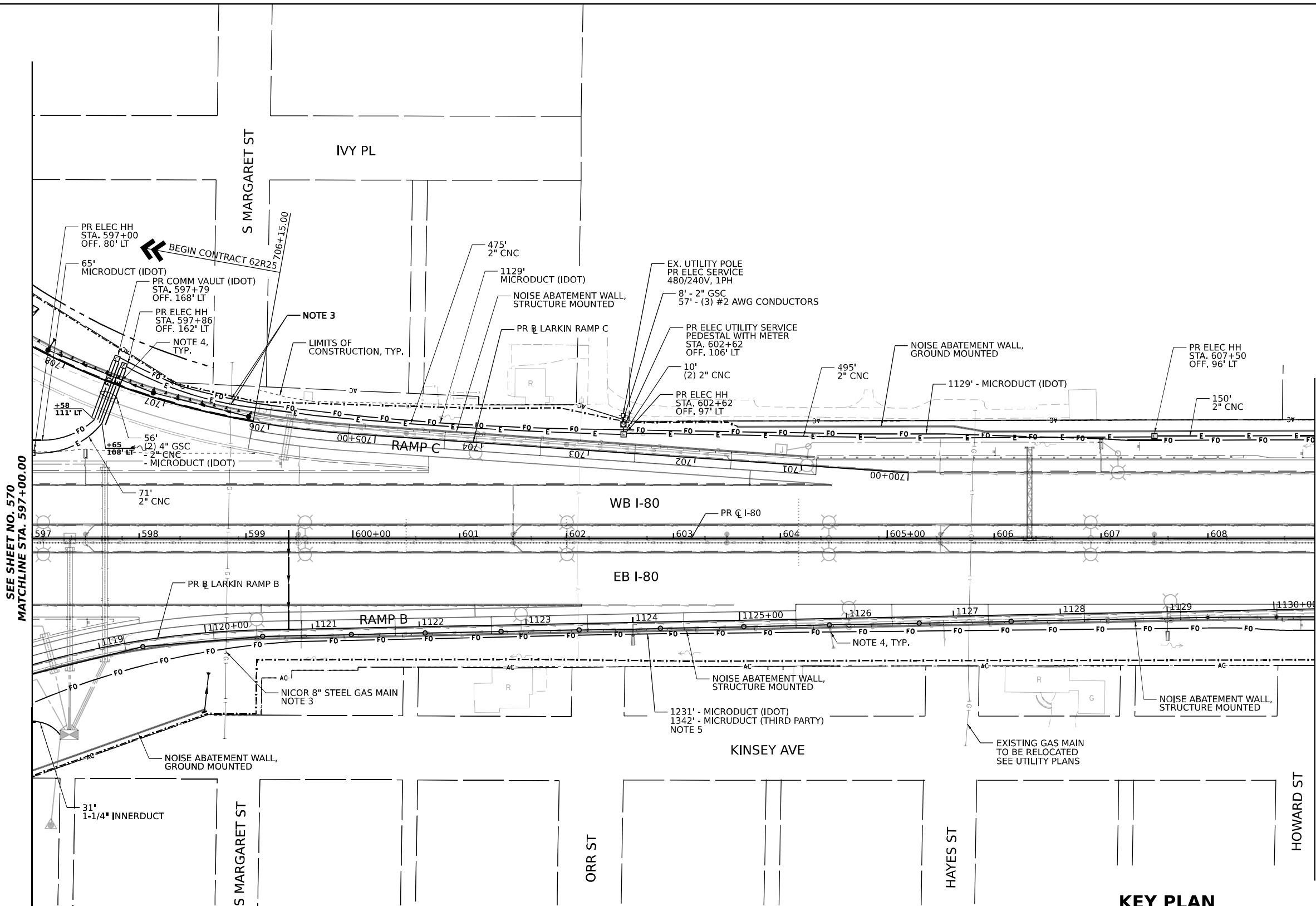
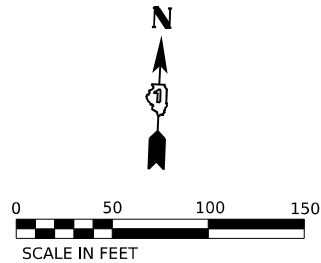


NOTES:

1. IDOT MICRODUCT SHALL ONLY ENTER IDOT COMMUNICATIONS VAULTS.
2. THIRD PARTY MICRODUCT SHALL ONLY ENTER THIRD PARTY COMMUNICATION VAULTS.
3. 2" CNC CONDUIT SHALL BE COUPLED TO THE 2" CONCRETE FOUNDATION CONDUIT STUB OUT. 1-1/4" INNERDUCT SHALL BE INSTALLED IN THE OTHER 2" CONCRETE FOUNDATION CONDUIT STUB OUT UP THROUGH THE TOP OF THE FOUNDATION.
4. THE 2" CNC CONDUITS SHALL BE COUPLED TO THE 2" CONCRETE FOUNDATION CONDUIT STUB OUTS.
5. COORDINATE INSTALLATION WITH DRAINAGE. MAINTAIN MINIMUM 18" CLEARANCE BETWEEN ITS MICRODUCT/CONDUIT AND DRAINAGE PIPES/STRUCTURES/UNDERDRAIN, TYP.

KEY PLAN





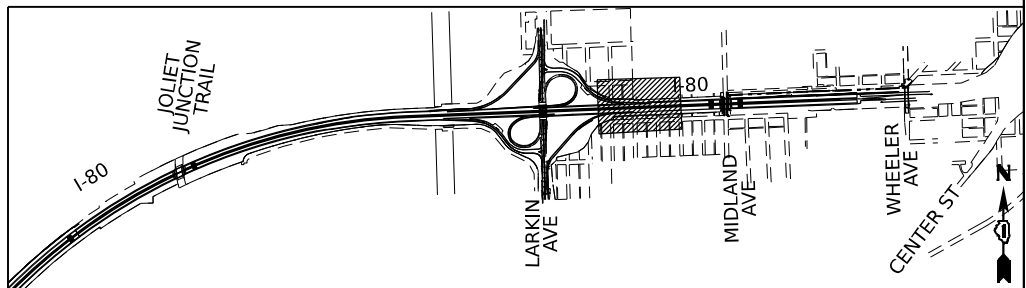
SEE SHEET NO. 570  
MATCHLINE STA. 597+00.00

MATCHLINE STA. 609+00.00  
SEE SHEET NO. 572

**NOTES:**

1. IDOT MICRODUCT SHALL ONLY ENTER IDOT COMMUNICATIONS VAULTS.
2. THIRD PARTY MICRODUCT SHALL ONLY ENTER THIRD PARTY COMMUNICATION VAULTS.
3. INSTALL ITS MICRODUCT/CONDUIT WITH A MINIMUM CLEARANCE AS SPECIFIED BY THE UTILITY.
4. COORDINATE INSTALLATION WITH DRAINAGE. MAINTAIN MINIMUM 18" CLEARANCE BETWEEN ITS MICRODUCT/CONDUIT AND DRAINAGE PIPES/STRUCTURES/UNDERDRAIN, TYP.
5. THESE MICRODUCT MEASUREMENTS START AT THE COMMUNICATION VAULTS ON THE PREVIOUS SHEET.

**KEY PLAN**



**TranSmart**  
100 S. Wacker Drive Suite 400  
Chicago, Illinois 60606

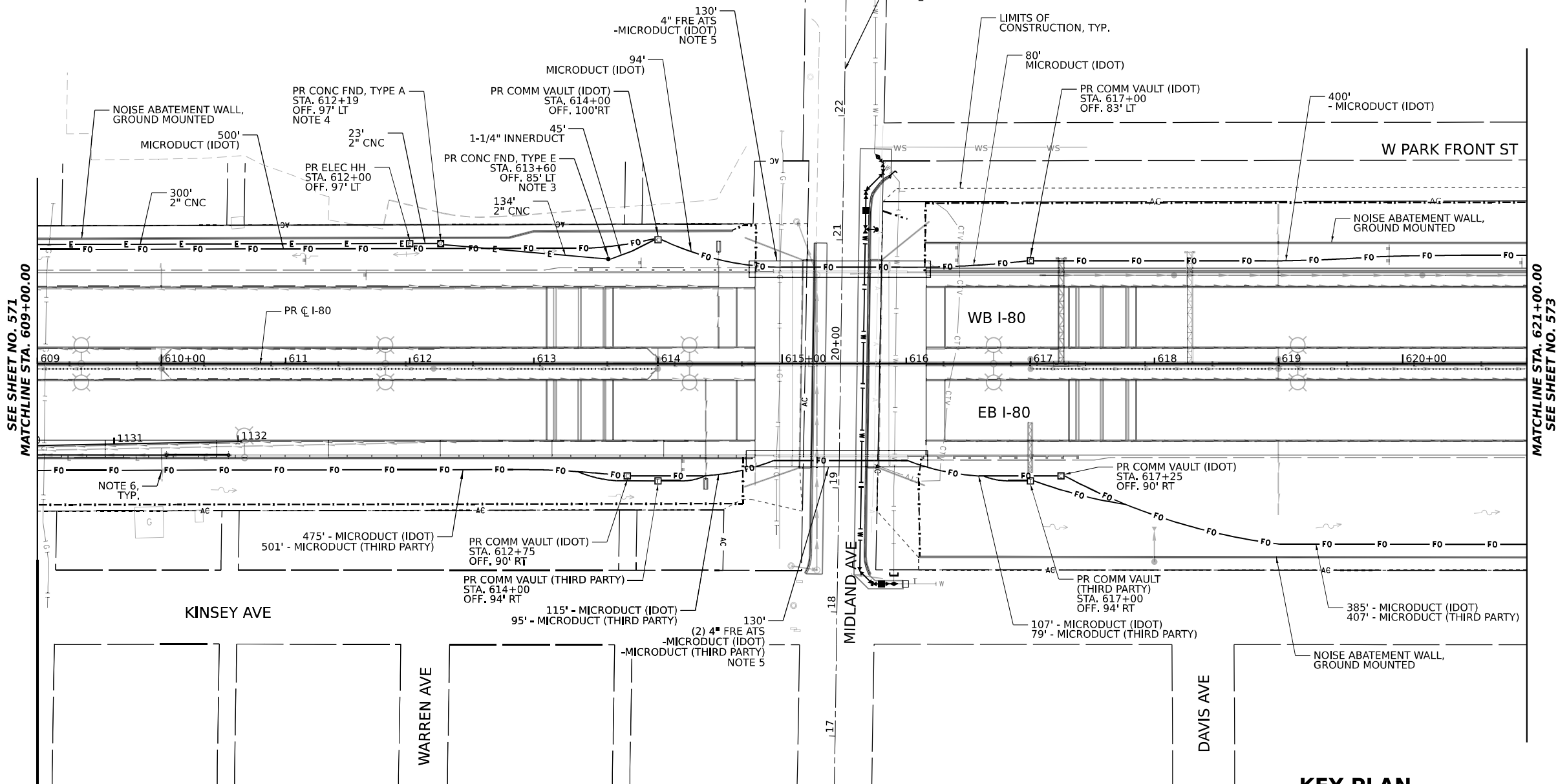
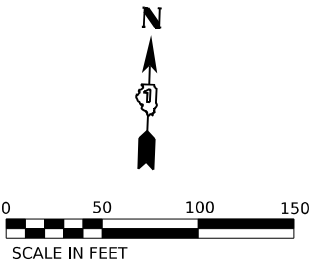
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PLOT DATE	10/5/2023	DATE	9/15/23	REVISED	

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ITS INFRASTRUCTURE PLANS**

SCALE: 1"=50'    SHEET 8    OF 11 SHEETS    STA. 597+00.00    TO STA. 609+00.00

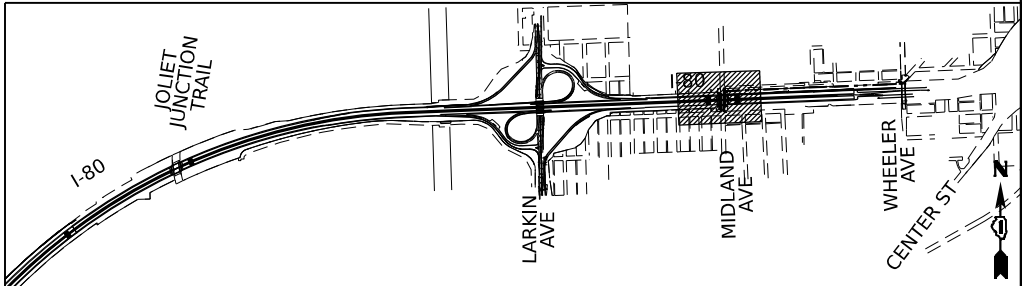
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 22 BR	WILL	1201	571
CONTRACT NO. 62R89				
ILLINOIS FED. AID PROJECT				



NOTES:

1. IDOT MICRODUCT SHALL ONLY ENTER IDOT COMMUNICATIONS VAULTS.
2. THIRD PARTY MICRODUCT SHALL ONLY ENTER THIRD PARTY COMMUNICATION VAULTS.
3. 2" CNC CONDUIT SHALL BE COUPLED TO THE 2" CONCRETE FOUNDATION CONDUIT STUB OUT. 1-1/4" INNERDUCT SHALL BE INSTALLED IN THE OTHER 2" CONCRETE FOUNDATION CONDUIT STUB OUT UP THROUGH THE TOP OF THE FOUNDATION.
4. THE 2" CNC CONDUITS SHALL BE COUPLED TO THE 2" CONCRETE FOUNDATION CONDUIT STUB OUTS.
5. SEE SHEET 585 AND 586 FOR CONDUIT ATTACHED TO STRUCTURE DETAILS.
6. COORDINATE INSTALLATION WITH DRAINAGE. MAINTAIN MINIMUM 18" CLEARANCE BETWEEN ITS MICRODUCT/CONDUIT AND DRAINAGE PIPES/STRUCTURES/UNDERDRAIN, TYP.

KEY PLAN



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Chicago, Illinois 60606

USER NAME	dmler	DESIGNED	DJM	REVISED	
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PLOT DATE	10/5/2023	DATE	9/15/23	REVISED	

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ITS INFRASTRUCTURE PLANS			
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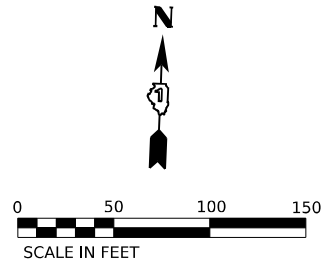
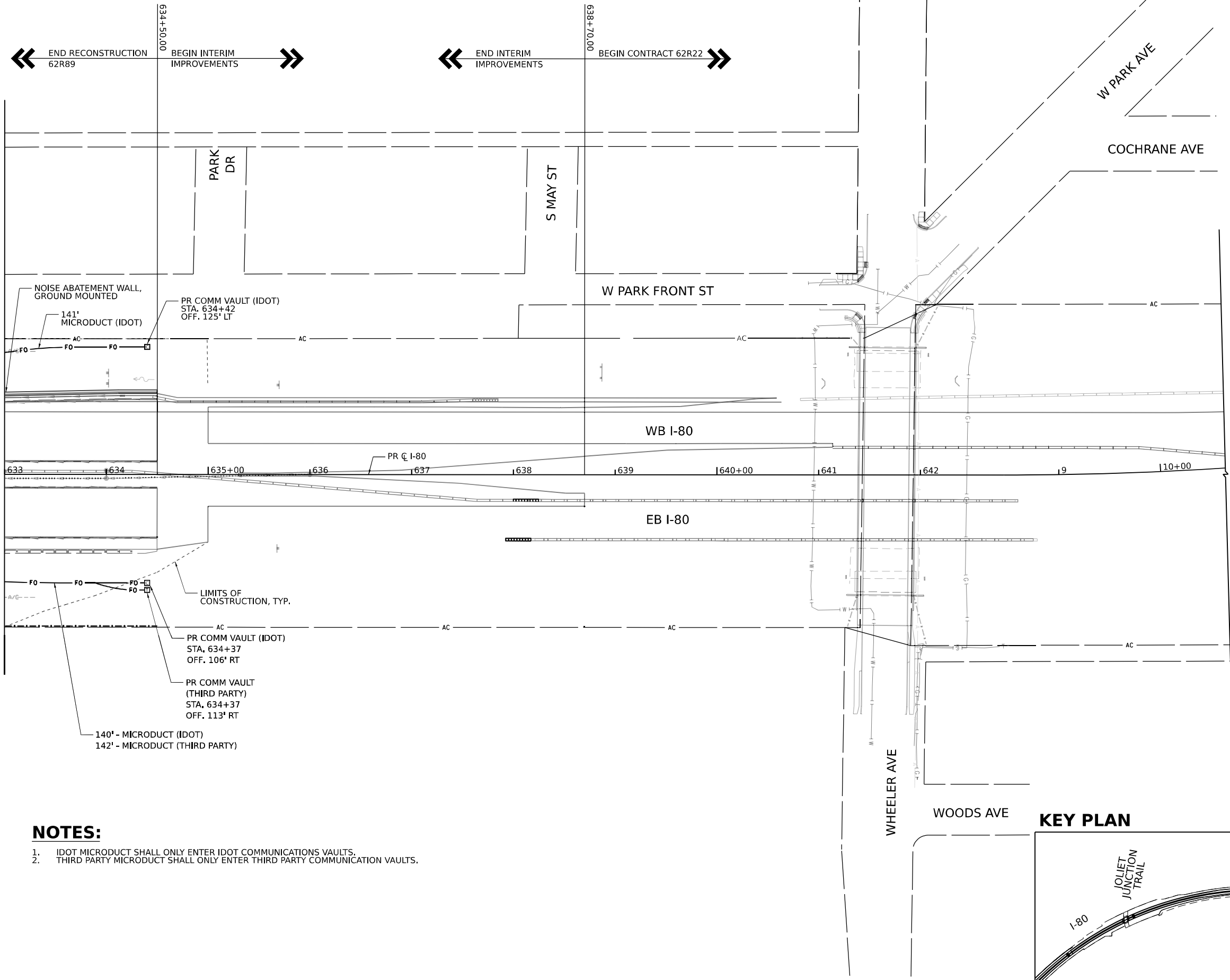
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ILLINOIS FED. AID PROJECT				





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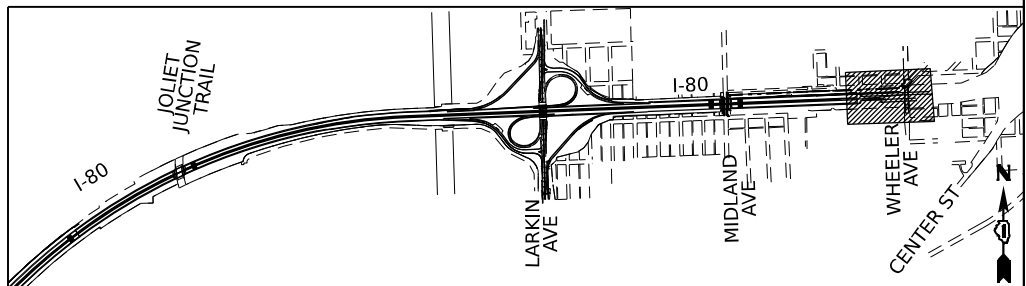
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### NOTES:

- IDOT MICRODUCT SHALL ONLY ENTER IDOT COMMUNICATIONS VAULTS.
- THIRD PARTY MICRODUCT SHALL ONLY ENTER THIRD PARTY COMMUNICATION VAULTS.

### KEY PLAN



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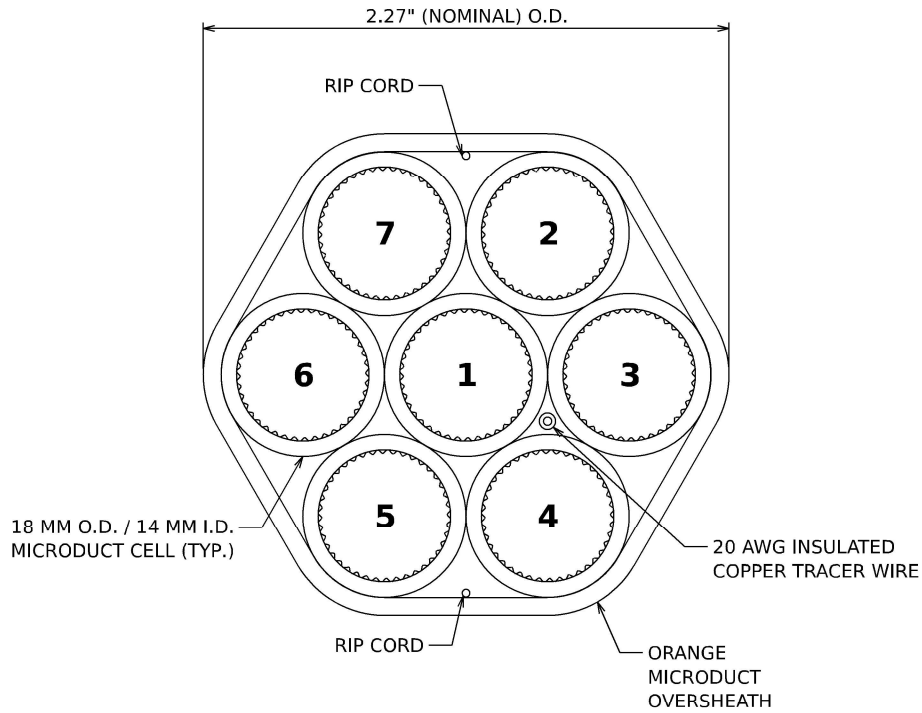
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ITS INFRASTRUCTURE PLANS

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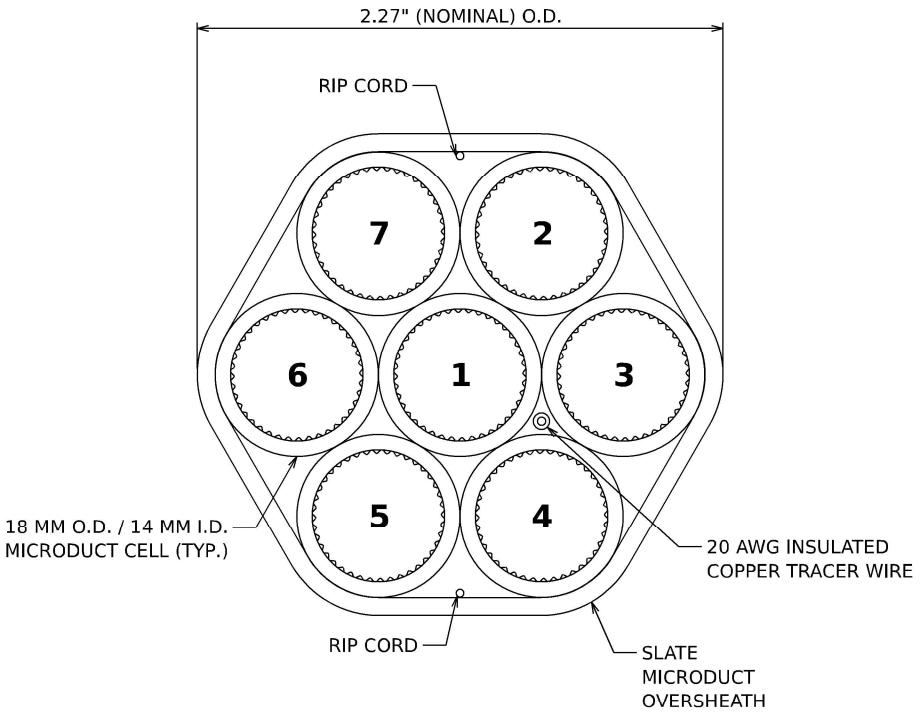
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I-80	FAI 80 22 BR	WILL	1201	574
CONTRACT NO. 62R89				
ILLINOIS FED. AID PROJECT				



**IDOT MICRODUCT DETAIL**

CELL NO.	CELL COLOR	CELL ALLOCATION
1	BLUE	FUTURE 144 IDOT (TCF)
2	ORANGE	FUTURE 144 IDOT (DCF)
3	GREEN	SPARE
4	BROWN	SPARE
5	GREY	SPARE
6	WHITE	SPARE
7	RED	SPARE

**IDOT MICRODUCT CELL INFORMATION**

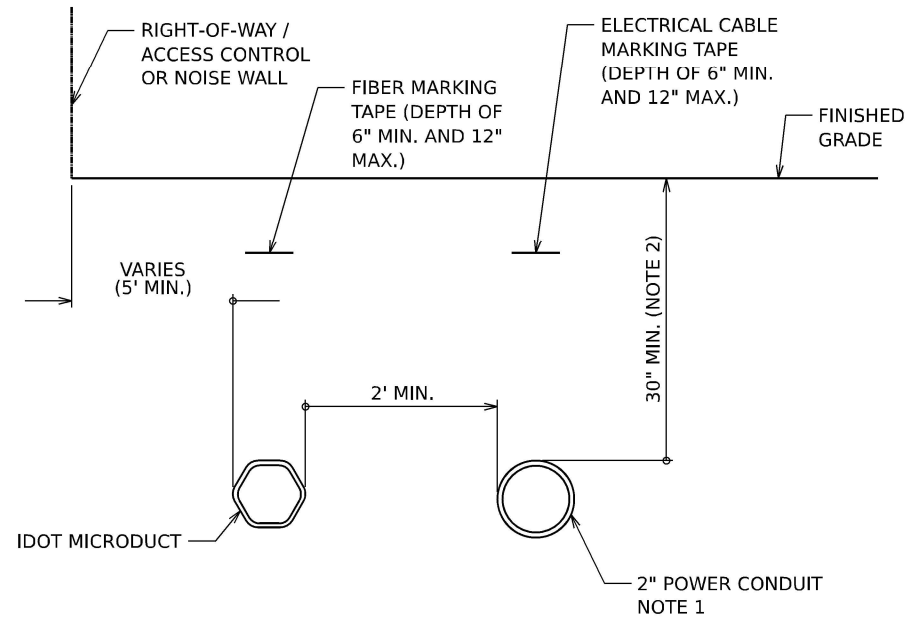


**THIRD PARTY MICRODUCT DETAIL**

CELL NO.	CELL COLOR	CELL ALLOCATION
1	BLUE	FUTURE 144 THIRD PARTY
2	ORANGE	SPARE
3	GREEN	SPARE
4	BROWN	SPARE
5	GREY	SPARE
6	WHITE	SPARE
7	RED	SPARE

**THIRD PARTY MICRODUCT CELL INFORMATION**

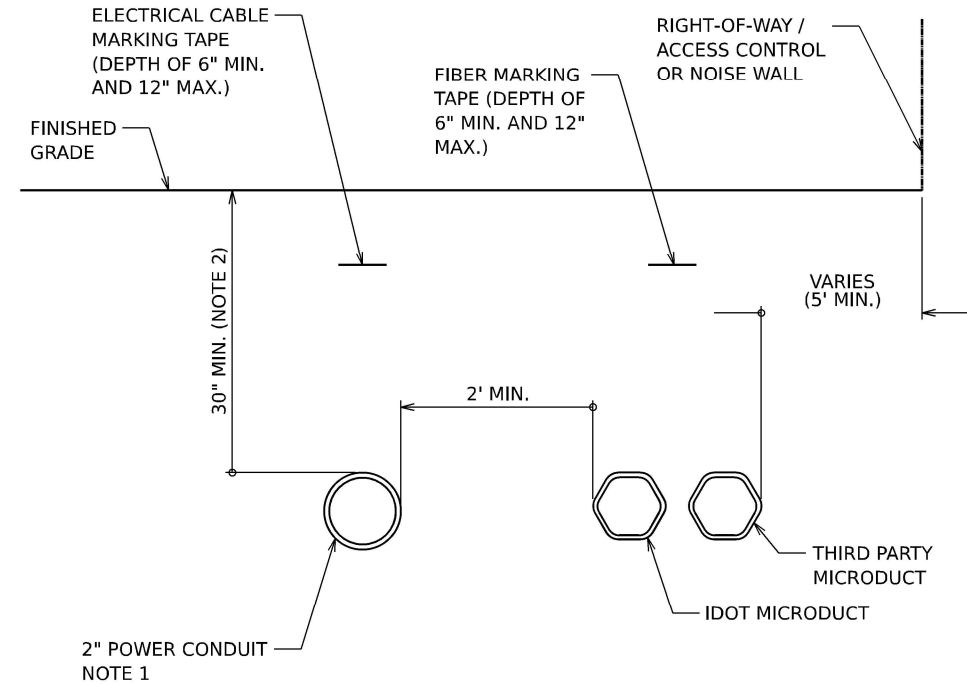
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**I-80 WESTBOUND  
TYPICAL CONDUIT SECTION**

**NOTES**

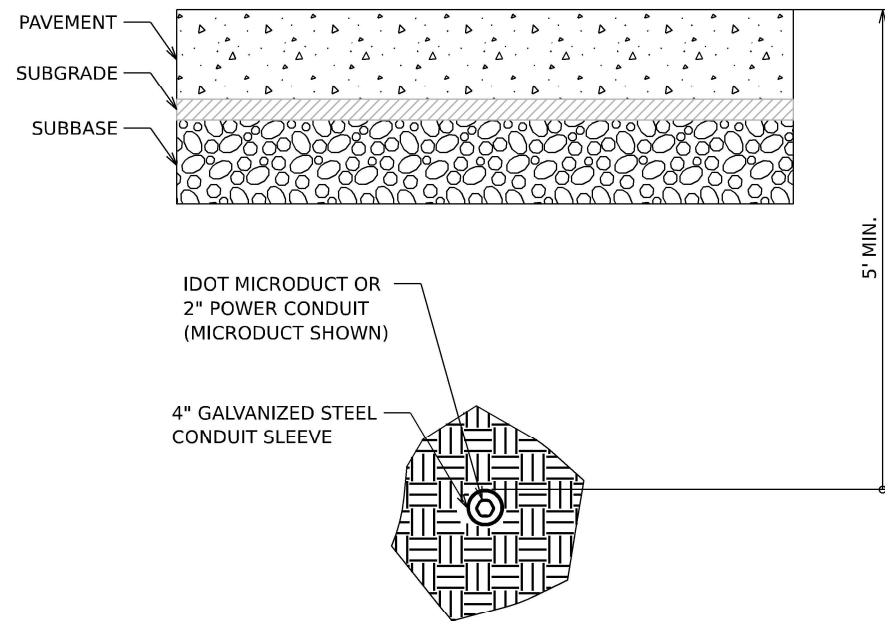
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2. GREATER DEPTH MAY BE REQUIRED IN CERTAIN SITUATIONS, INCLUDING, BUT NOT LIMITED TO:  
ENTERING HANDHOLES/VAULTS, UTILITY AVOIDANCE, CROSSING BENEATH BOX CULVERTS.



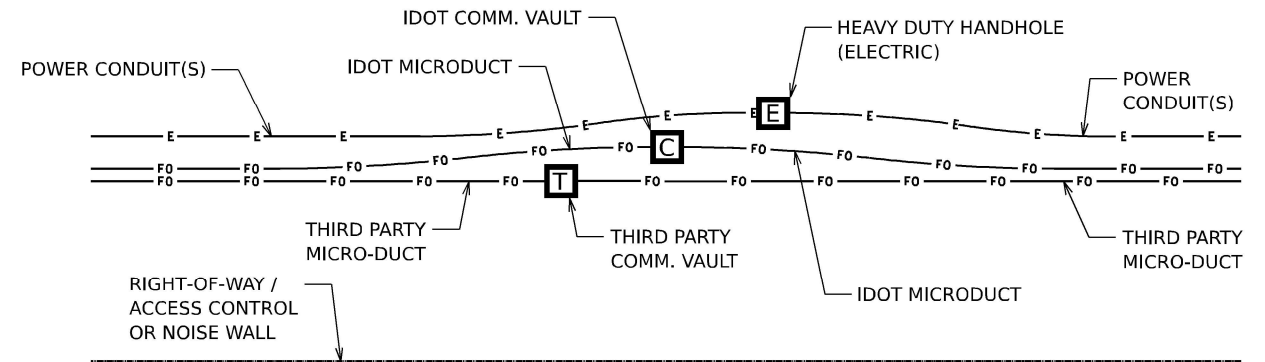
**I-80 EASTBOUND  
TYPICAL CONDUIT SECTION**

**NOTES**

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2. GREATER DEPTH MAY BE REQUIRED IN CERTAIN SITUATIONS, INCLUDING, BUT NOT LIMITED TO:  
ENTERING HANDHOLES/VAULTS, UTILITY AVOIDANCE, CROSSING BENEATH BOX CULVERTS.



**BORED CONDUIT UNDER ROADWAY**



**TYPICAL CONDUIT ROUTING AT HANDHOLES**

**NOTES**

1. INSTALLATION CONFIGURATION/QUANTITY OF POWER CONDUITS VARIES BY LOCATION AND ROADWAY DIRECTION.  
EASTBOUND DIRECTION SHOWN ABOVE WITH POWER CONDUIT, IDOT MICRODUCT, AND THIRD PARTY MICRODUCT.
2. IDOT MICRODUCT SHALL ENTER IDOT COMMUNICATIONS VAULTS ONLY.
3. THIRD PARTY MICRODUCT SHALL ENTER THIRD PARTY COMMUNICATIONS VAULTS ONLY.

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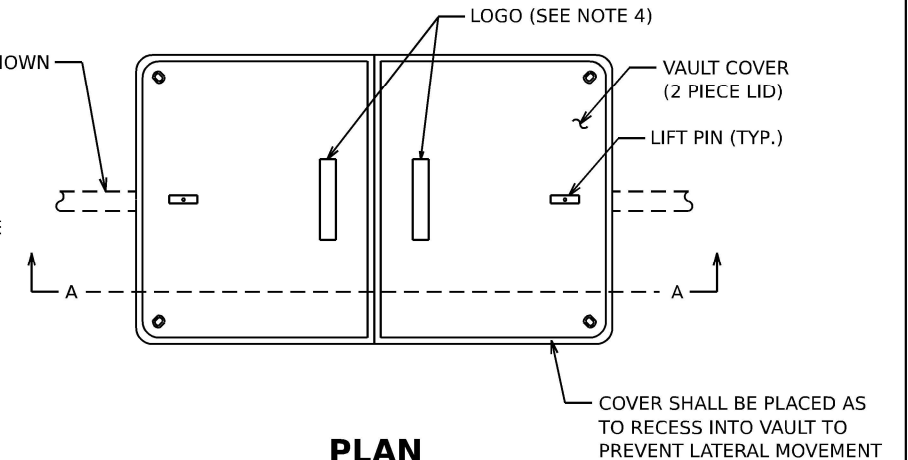
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

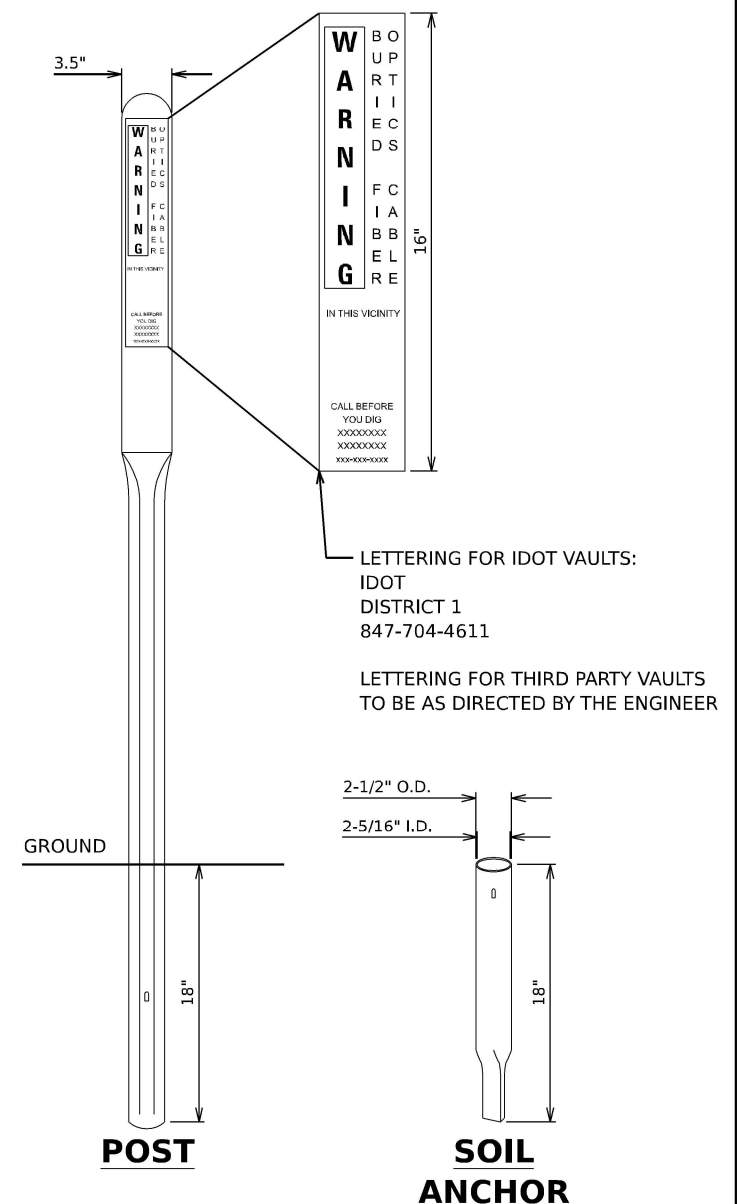
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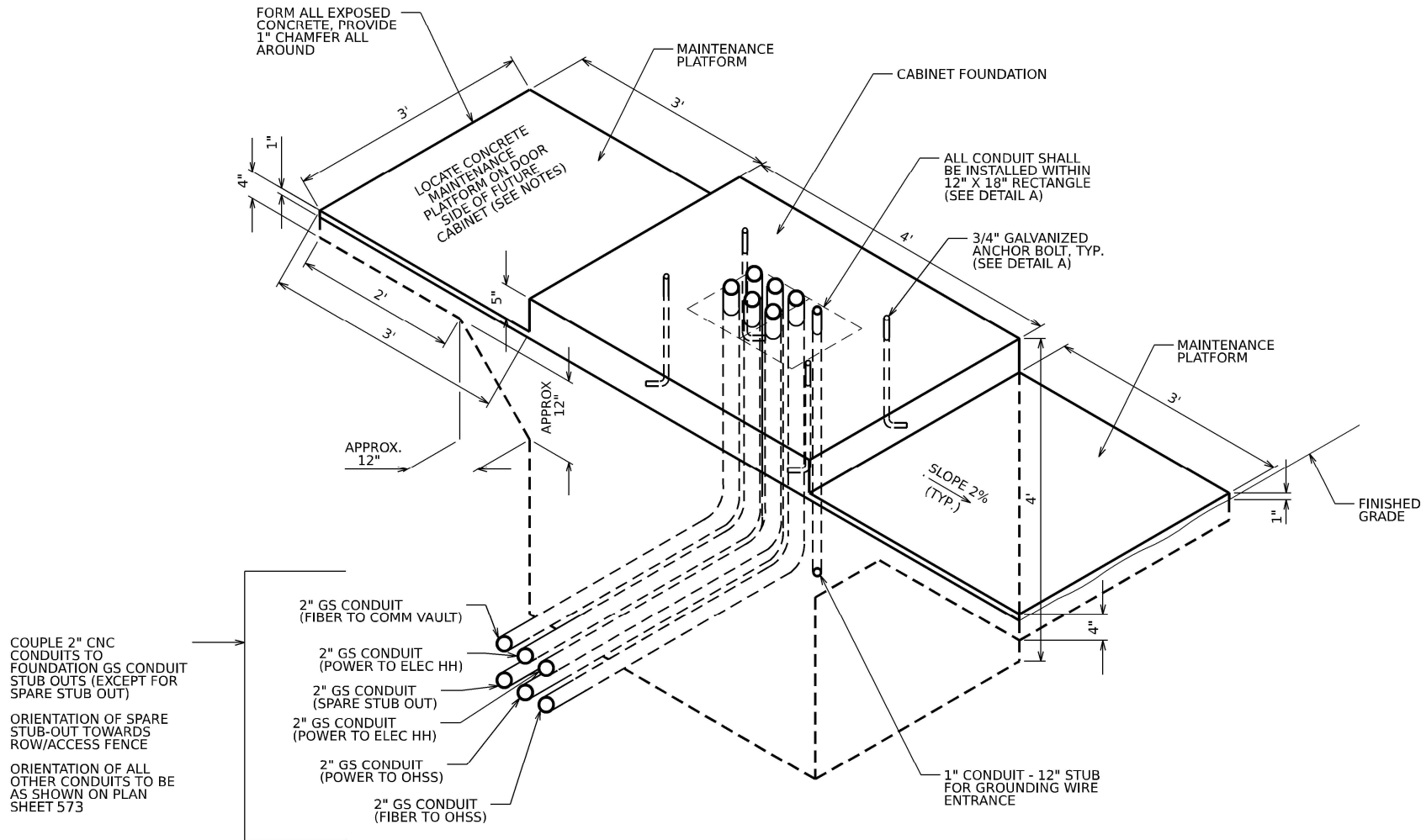
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 22 BR	WILL	1201	576
CONTRACT NO. 62R89				
ILLINOIS FED. AID PROJECT				



1. GROUND ROD, 1-1/2" CONDUIT, #6 AWG GROUND WIRE, LOCATE POST AND ASSOCIATED WORK ARE INCLUDED AS PART OF COMMUNICATIONS VAULT AND WILL NOT BE PAID FOR SEPARATELY. ALL MATERIALS FOR MECHANICAL CONNECTION SHALL BE UL LISTED AND INSTALLED PER NEC ARTICLE 250.
2. #20 AWG TRACER CABLE SHALL BE SPLICED TO THE #20 AWG TRACER CABLE IN THE MICRODUCT USING A WATERPROOF SPLICE KIT AS RECOMENDED BY THE MICRODUCT MANUFACTURER. THE #20 AWG WIRE, SPLICE KIT AND ASSOCIATED WORK ARE INCLUDED AS PART OF COMMUNICATIONS VAULT AND WILL NOT BE PAID FOR SEPARATELY.
3. A WATERPROOF MICRODUCT PLUG(S) OR INNERDUCT PLUG SHALL BE INSTALLED AROUND EACH MICRODUCT OR INNERDUCT TO SEAL AROUND THE DUCT FOR ALL MICRODUCTS OR INNERDUCTS COMING INTO THE VAULT. THE PLUGS SHALL BE APPROPRIATELY SIZED AND INSTALLED AS RECOMMENDED BY THE MANUFACTURER AND IS INCLUDED AS PART OF THE MICRODUCT OR INNERDUCT PAY ITEM AND WILL NOT BE PAID SEPARATELY.
4. IDOT COMMUNICATIONS VAULTS SHALL HAVE A PERMANENTLY RECESSED LOGO THAT READS "IDOT" AND THIRD PARTY COMMUNICATIONS VAULTS SHALL HAVE A PERMANENTLY RECESSED LOGO THAT READS "IDOT - BB".
5. COMMUNICATIONS VAULT SHALL HAVE AN OPEN BASE. ALL CONDUITS AS SHOWN ON THE PLANS SHALL ENTER THE VAULT VIA THE OPEN BASE.
6. ALL DIMENSIONS ARE MINIMUM AND A LARGER SIZE VAULT MAY BE USED, WITH THE APPROVAL OF THE ENGINEER, TO FACILITATE USING A MANUFACTURER'S STANDARD PRODUCT.



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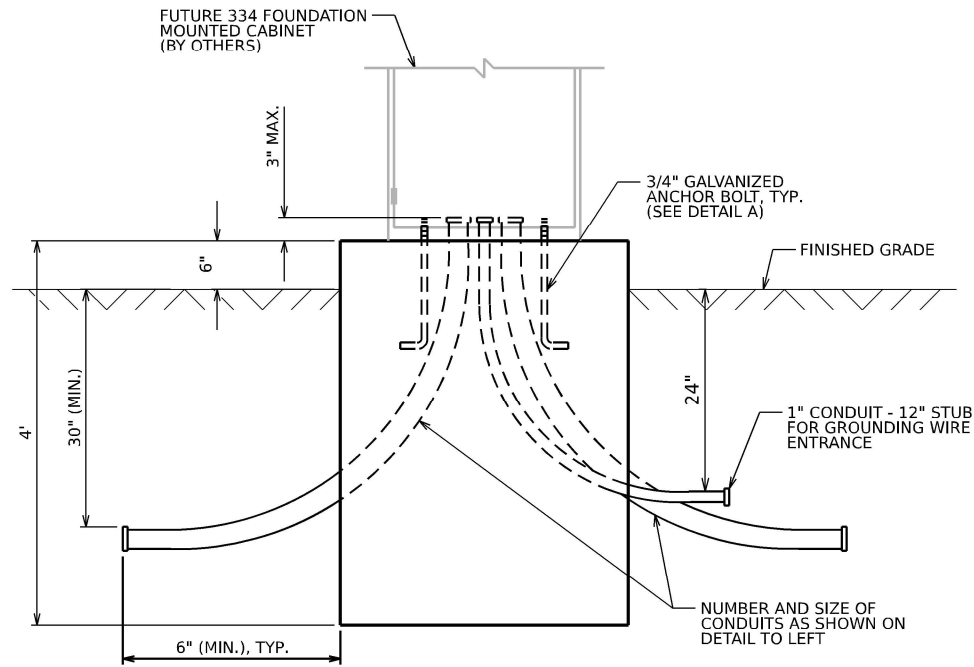


**CONCRETE FOUNDATION FOR  
SURVEILLANCE CABINET MODEL 334  
ELEVATION VIEW**

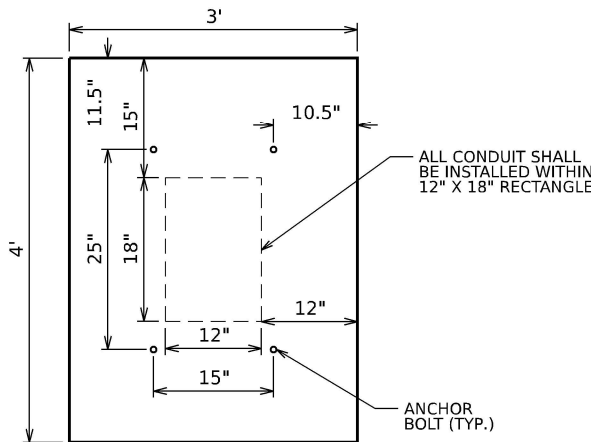
**NOTES**

1. INSTALL FOUR 3/4 INCH DIAMETER X 12 INCH MINIMUM LENGTH APPROVED J-BOLTS TO ANCHOR THE FUTURE CABINET BASES. THE ANCHOR BOLTS SHALL BE HOT-DIPPED GALVANIZED STEEL AND LOCATED AS SHOWN IN DETAIL A.
2. CONTROL CABINET BASE TOP SURFACES SHALL BE TROWEL FINISHED AND LEVEL. LEVELING OF TOP SURFACES AFTER CONCRETE BASE HAS CURED SHALL ONLY BE ACCOMPLISHED BY GRINDING.
3. MAINTENANCE PLATFORMS ARE NOT REQUIRED WHEN THE SURROUNDING AREA IS PAVED.
4. CONCRETE FORM DEPTH BELOW FINISHED GRADE SHALL BE 6" MAXIMUM. CONCRETE FORMS SHALL BE REMOVED AFTER CONCRETE HAS SET.
5. CONCRETE MAINTENANCE PLATFORM AND CABINET FOUNDATION FOR CABINET SHALL BE MONOLITHIC POUR.
6. WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.
7. CONDUIT HEIGHT ABOVE THE CONCRETE BASE SHALL BE 3 INCHES.
8. MINIMUM BENDING RADIUS OF CONDUIT = 6 X THE DIAMETER
9. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

10. CAP ALL BELOW GRADE METALLIC CONDUIT ENDS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED.
11. PLUG ALL BELOW GRADE NONMETALLIC CONDUIT ENDS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED.
12. ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.
13. ALL METALLIC CONDUIT ENDS AT TOP OF CONCRETE BASES SHALL BUSHINGS AND ALL NONMETALLIC CONDUIT ENDS AT TOP OF CONCRETE BASES SHALL HAVE END BELLS.
14. REFER TO SPECIAL PROVISIONS FOR ADDITIONAL REQUIREMENTS.
15. THE CONTRACTOR SHALL INSTALL INSULATED BUSHINGS AND DUCT SEALANT AT ALL CONDUIT BEND TERMINATIONS IN FOUNDATIONS.
16. CONCRETE BASE TO BE FORMED AT LEAST 6" ABOVE THE GROUND SURFACE.



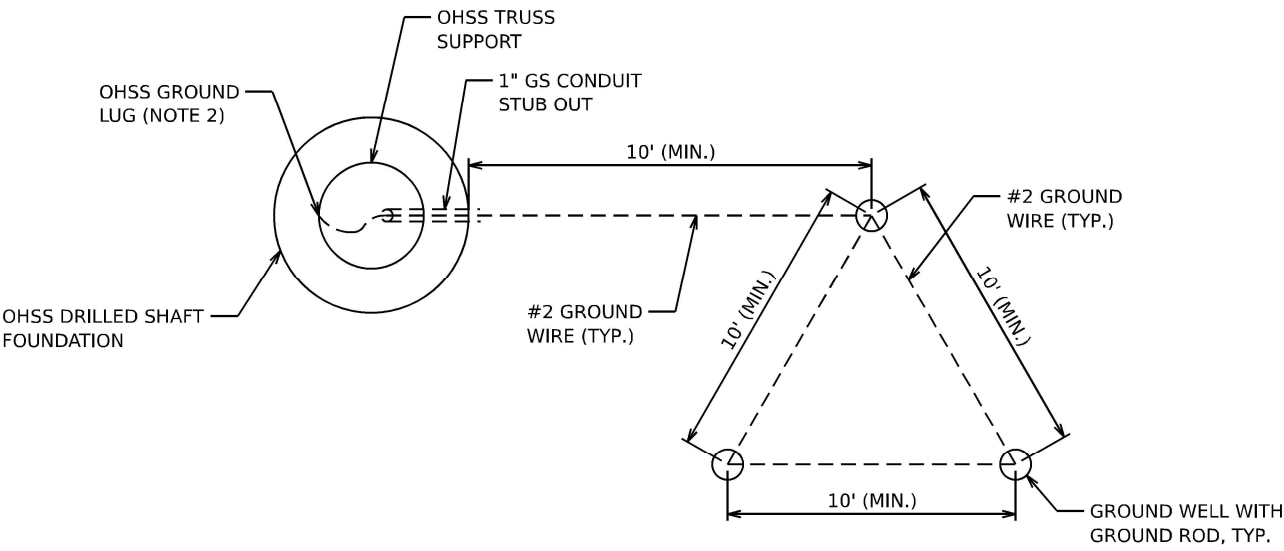
**CONCRETE FOUNDATION FOR  
SURVEILLANCE CABINET MODEL 334  
ELEVATION VIEW**



**DETAIL A  
CABINET FOUNDATION  
ANCHOR BOLT AND  
CONDUIT LAYOUT**

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	DRAWN - DJM	REVISED -
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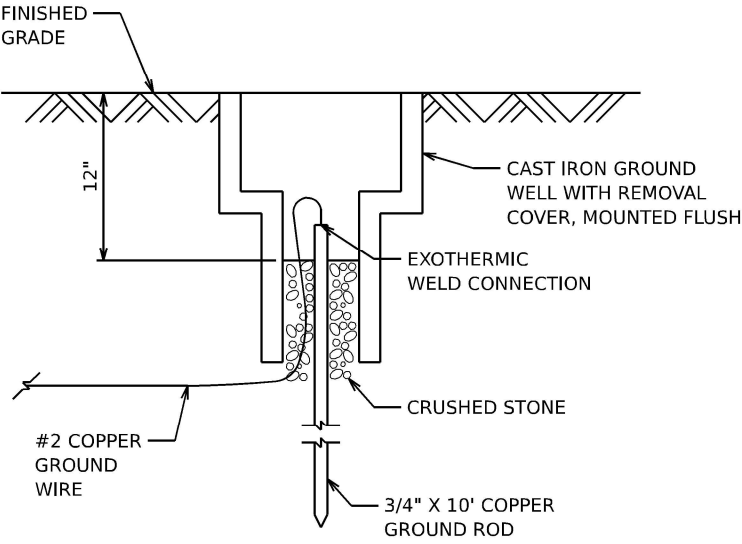
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I-80	FAI 80 22 BR	WILL	1201	578
CONTRACT NO. 62R89				
ILLINOIS   FED. AID PROJECT				



DMS SIGN STRUCTURE  
GROUNDING DETAIL

NOTES

- 1. THE COST FOR GROUNDING OF THE DMS SIGN STRUCTURE SHALL BE INCLUDED AND PAID AS PART OF THE OVERHEAD SIGN STRUCTURE PAY ITEM.
- 2. CONTRACTOR SHALL TERMINATE THE GROUND COPPER WIRE TO OHSS GROUND LUG USING APPROVED CLAMPS FOR GROUNDING.
- 3. ONLY STUB OUT CONDUITS FOR GROUNDING SHOWN. OTHER CONDUITS FOR POWER OR COMMUNICATIONS ARE NOT SHOWN FOR CLARITY.



GROUND WELL DETAIL

MODEL ITS Detail/E  
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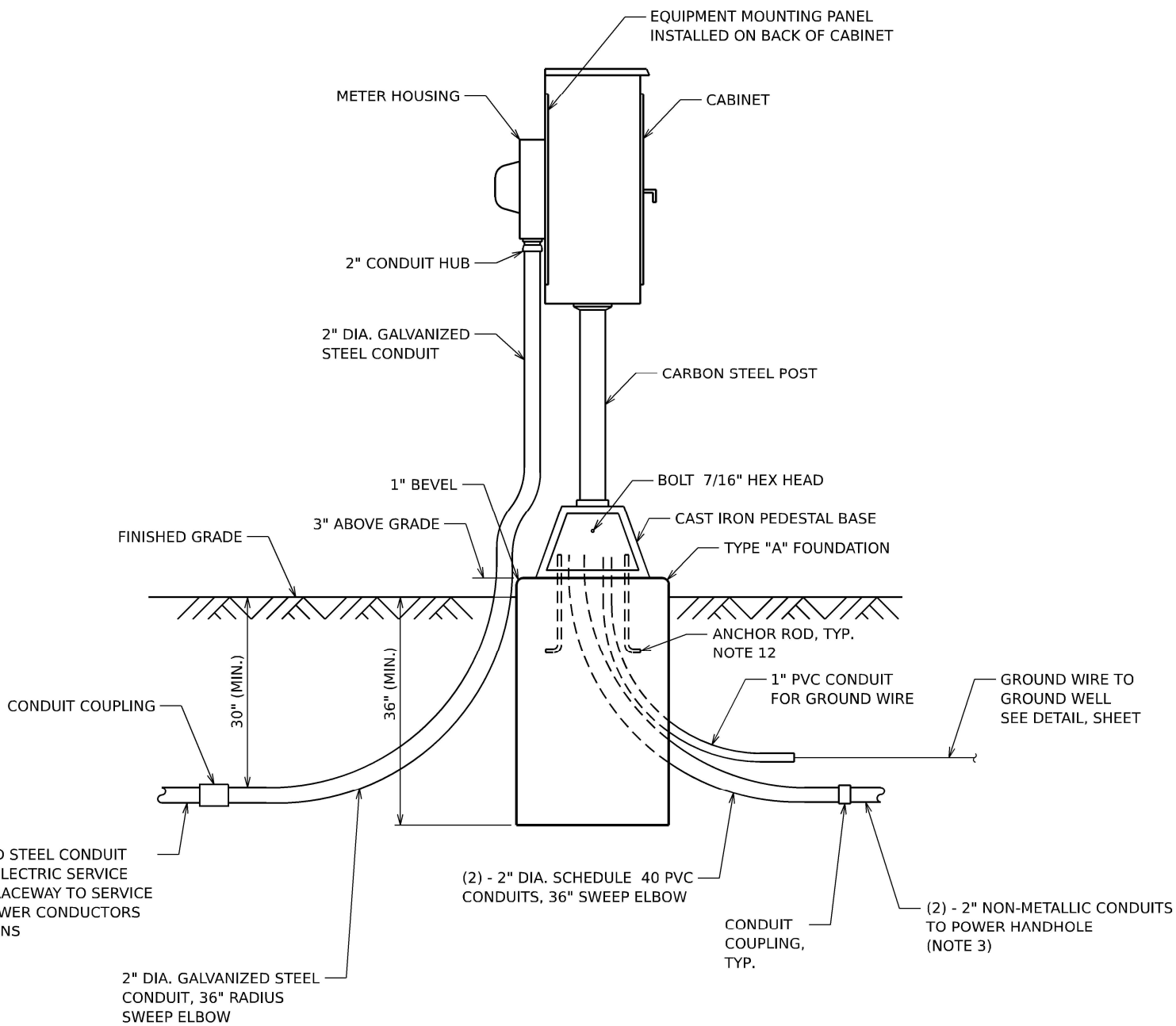
**TranSmart**  
100 S. Wacker Drive Suite 400  
Chicago, Illinois 60606

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ITS INFRASTRUCTURE DETAILS			
SCALE: NONE	SHEET 5	OF 13 SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 22 BR	WILL	1201	579
CONTRACT NO. 62R89				
ILLINOIS FED. AID PROJECT				



**SERVICE PEDESTAL WITH METER**

**NOTES**

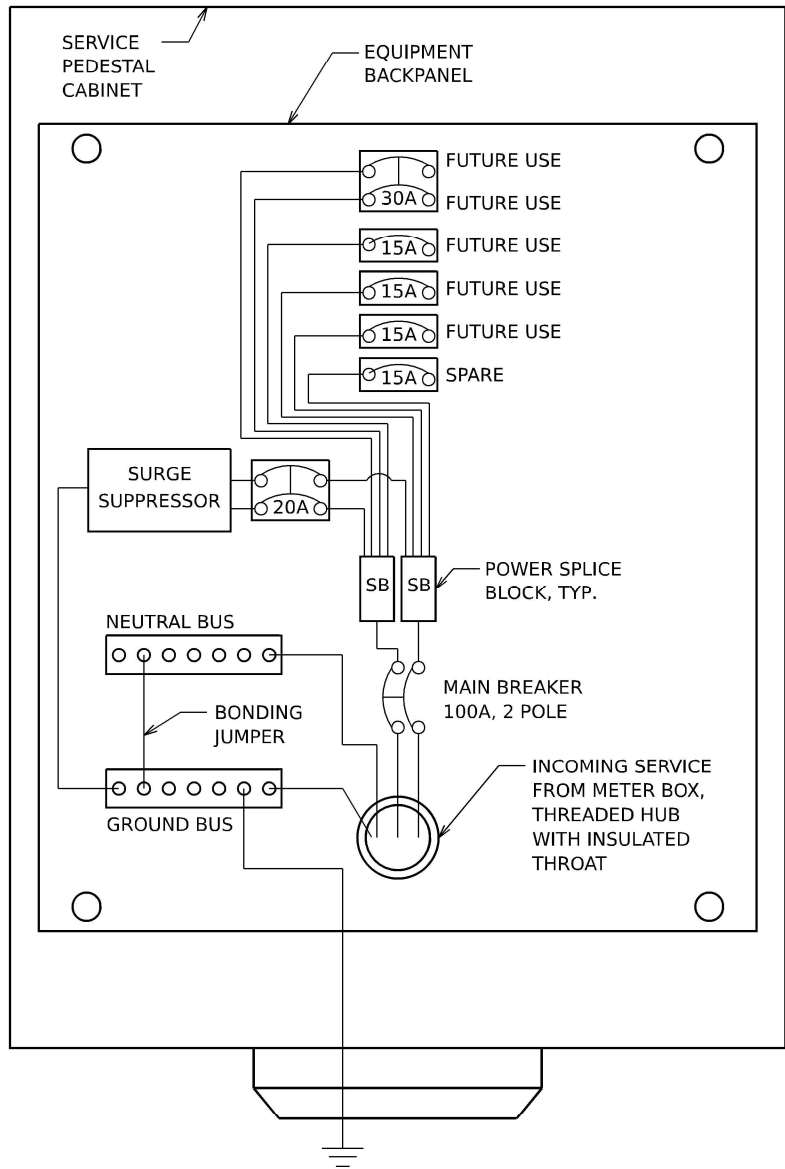
- SERVICE VOLTAGE SHALL BE AS INDICATED ELSEWHERE IN THE DRAWINGS.
- UNLESS OTHERWISE INDICATED, ALL ITEMS AND WORK SHOWN SHALL BE INCLUDED AND PAID AS PART OF THE ELECTRIC UTILITY SERVICE INSTALLATION PAY ITEM.
- THE HORIZONTAL ELECTRIC SERVICE CONDUCTOR RACEWAY/CONDUCTORS AND NON-METALLIC CONDUITS TO POWER HANDHOLE SHALL BE MEASURED SEPARATELY FOR PAYMENT.
- CABINETS, CABINET POSTS AND CABINET PEDESTALS SHALL BE PRIMED AND PAINTED. THE EXTERIOR SHALL HAVE TWO EPOXY FINISH COATS OF ANSI-61 GRAY. THE INTERIOR SHALL BE PAINTED WHITE.
- METER HOUSING SHALL BE MOUNTED TO BACK WALL OF CABINET. PROVIDE A GATE IN ROW FENCE TO ALLOW UTILITY ACCESS TO READ THE METER.
- CABLES FROM METER HOUSING SHALL PASS THROUGH BACK WALL OF CABINET.
- METER HOUSING SHALL BE AS REQUIRED BY THE UTILITY.
- THE CABINET SHALL BE 36"H X 20"W X 15"D, FABRICATED FROM ALUMINUM WITH A MINIMUM THICKNESS OF .125", RATED NEMA TYPE 3R AND HAVE A MOUNTING BACK PLATE.
- THE CABINET DOOR SHALL HAVE A CONTINUOUS HINGE THAT IS BOLTED TO THE CABINET AND DOOR WITH 1/4-20 STAINLESS STEEL CARRIAGE BOLTS AND NY-LOCK NUTS. THE HINGE SHALL BE INSTALLED ON THE RIGHT SIDE WHEN FACING THE CABINET AND BE MADE OF STAINLESS STEEL WITH A 0.25 INCH DIAMETER STAINLESS STEEL HINGE PIN. THE HINGE PIN SHALL BE CAPPED TOP AND BOTTOM BY WELD TO RENDER IT TAMPER-PROOF. THE CABINET SHALL HAVE A GASKET THAT FORMS A WEATHER-TIGHT SEAL BETWEEN THE CABINET AND DOOR. THE DOOR LATCHING MECHANISM SHALL BE THE 3-POINT DRAW ROLLER TYPE. WHEN THE DOOR IS CLOSED AND LATCHED, IT WILL BE LOCKED. THE LATCHING HANDLE SHALL BE FABRICATED FROM A 0.75" STAINLESS STEEL ROUND BAR AND SHALL HAVE A PROVISION FOR PADLOCKING IN THE CLOSED POSITION.
- THE ENCLOSURE SHALL BE EQUIPPED WITH TWO ADJUSTABLE "C" MOUNTING CHANNELS WELDED ON BOTH SIDE WALLS AND BACK WALL OF THE ENCLOSURE, ALLOWING VERSATILE POSITIONING OF SHELVES OR PANELS. MOUNTING CHANNELS SHALL BE FACTORY PAINTED SAME COLOR AS INTERIOR OF CABINET.
- CABINET DOOR SHALL NOT HAVE COMPARTMENT DOORS OR LOUVERS. INTERIOR OF CABINET DOOR SHALL HAVE A PLASTIC POCKET FOR WIRING SCHEMATIC.
- CONTRACTOR MUST COORDINATE WITH PEDESTAL BASE SUPPLIER AND FURNISH THE NECESSARY ANCHOR RODS.
- THE ELECTRIC SERVICE EQUIPMENT ASSEMBLY SHALL BE ASSEMBLED BY A UL 508A INDUSTRIAL CONTROL PANEL FABRICATOR. THE PANEL ASSEMBLY SHALL BE UL LABELED AND SUITABLE FOR USE AS SERVICE EQUIPMENT.
- ALL EQUIPMENT SHALL BE GROUNDED AND BONDED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND THE NATIONAL ELECTRICAL SAFETY CODE.
- 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.

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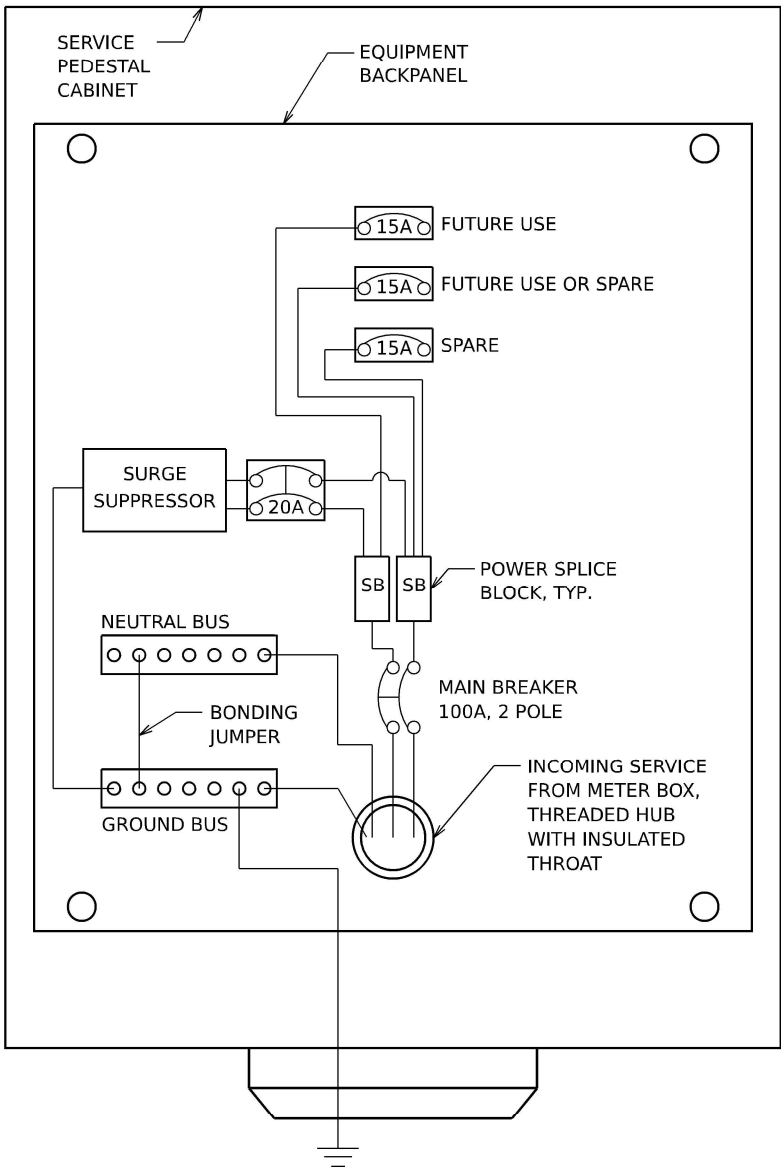
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 22 BR	WILL	1201	580
CONTRACT NO. 62R89				
ILLINOIS		FED. AID PROJECT		

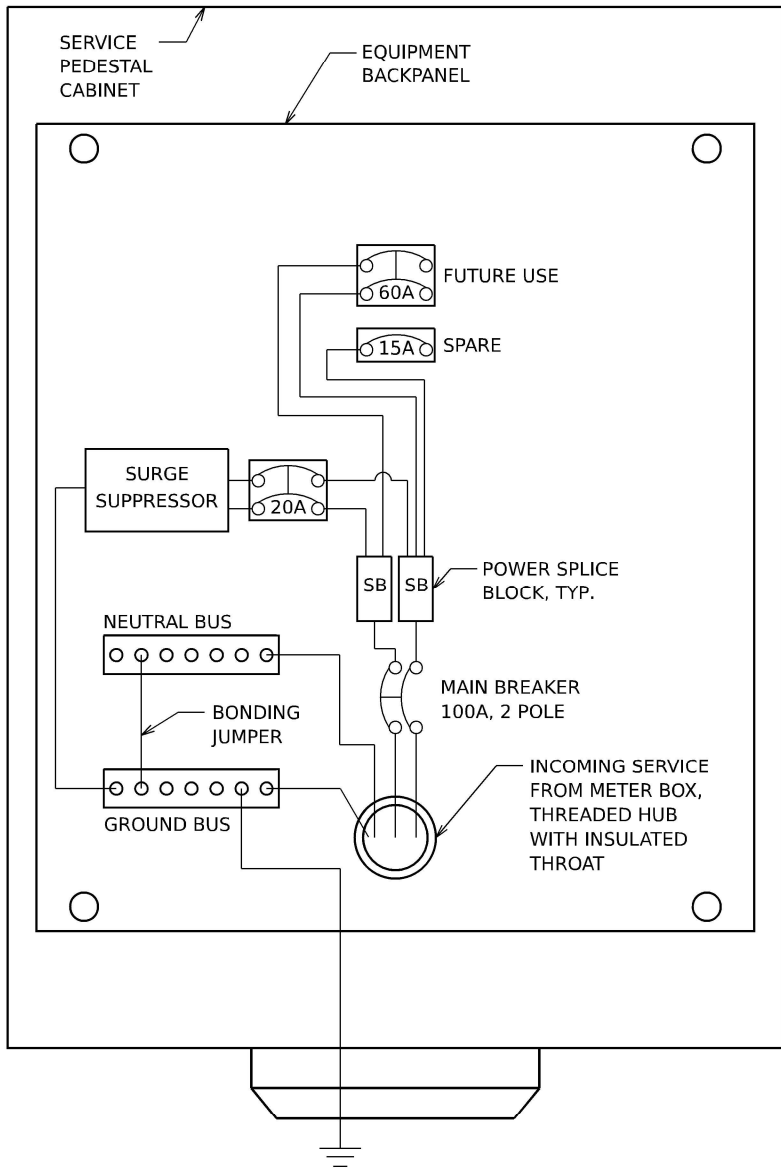




**SERVICE PEDESTAL CABINET WIRING  
AND EQUIPMENT LAYOUT  
STA 545+02**



**SERVICE PEDESTAL CABINET WIRING  
AND EQUIPMENT LAYOUT  
STA 579+44 & 602+53**



**SERVICE PEDESTAL CABINET WIRING  
AND EQUIPMENT LAYOUT  
STA 622+00**

**NOTES**

1. THE ELECTRIC SERVICE EQUIPMENT ASSEMBLY SHALL BE UL LABELED, SUITABLE FOR USE AS SERVICE EQUIPMENT.
2. CIRCUIT BREAKERS SHALL BE THERMAL MAGNETIC BOLT-ON TYPE WITH A MINIMUM INTERRUPTING CAPACITY OF 15,000 SYMETRICAL AMPERES AT 240 VOLTS MINIMUM. THEY SHALL BE LOCKABLE IN THE "OFF" POSITION FOR COMPLIANCE WITH OSHA LOCK-OUT/TAG-OUT REQUIREMENTS. HANDLES SHALL BE TRIP FREE.
3. THE SURGE PROTECTOR SHALL BE SUITABLE FOR 240 / 480 VOLT SINGLE PHASE 60HZ AC ELECTRICAL SERVICE, WITH A SURGE CURRENT RATING OF 50,00 AMPS OR BETTER, RATED -40 TO 65 DEGREES C., WITH LED OPERATING IDICATORS, AND SHALL BE UL LISTED PER UL 1449. SURGE PROTECTOR SHALL BE WIRED FOR 240/480 V SERVICE. FOLLOW MANUFACTURER RECOMMENDED WIRING SPECIFICATIONS.
4. BUS BARS, CONNECTORS AND LUGS SHALL BE COPPER, INSULATED AND ISOLATED AND CONFIGURED TO PREVENT SHORTED CONDITIONS FROM TIGHTENING TERMINATIONS, ETC. THE OVERALL BUS SECTION SHALL BE CONFIGURED BEHIND AN INSULATING BARRIER SHIELD WHICH IS REMOVABLE FOR ACCESS TO CONNECTIONS.
5. THE COMBINATION GROUND AND NEUTRAL BAR SHALL BE CONFIGURED WITH SEPARATE GROUND AND NEUTRAL SECTIONS AND SPARE TERMINALS AS INDICATED. THE HEADS OF GROUND SCREWS SHALL BE PAINTED GREEN. THE HEADS OF NEUTRAL SCREWS SHALL BE PAINTED WHITE.
6. A PLASTIC LAMINATED CABINET LAYOUT DIAGRAM, CIRCUIT SCHEMATIC, AND BILL OF MATERIALS WITH CATALOG NUMBERS USED SHALL BE AFFIXED TO THE INTERIOR SIDE OF THE ENCLOSURE DOOR.
7. EQUIPMENT IN DIAGRAM ABOVE IS NOT TO SCALE AND WIRING SCHEMATIC IS DIAGRAMMATIC. CONTRACTOR TO SUBMIT WIRING DIAGRAM AND EQUIPMENT LAYOUT FOR APPROVAL BY THE ENGINEER.

MODEL: ITS Detail 7  
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100 S. Wacker Drive Suite 400  
Chicago, Illinois 60606

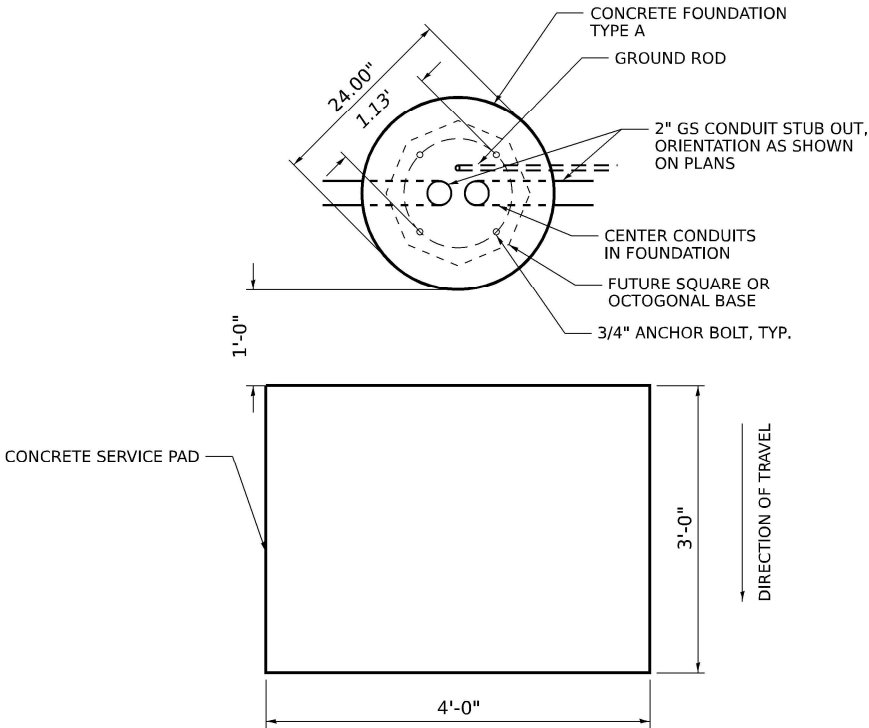
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

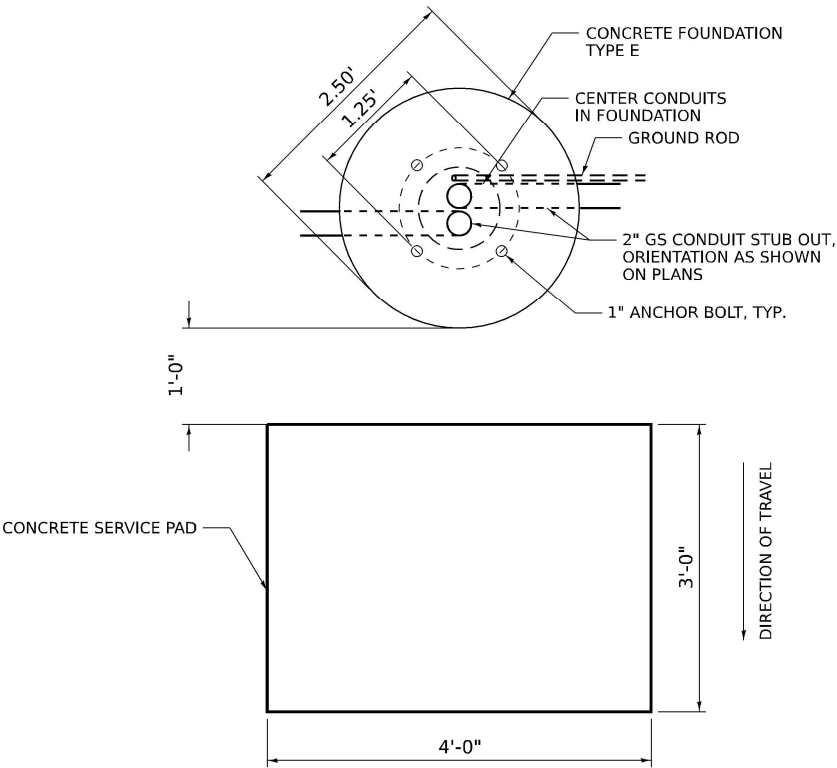
**ITS INFRASTRUCTURE DETAILS  
METER PEDESTAL WIRING**

SCALE: NONE SHEET 7 OF 13 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 22 BR	WILL	1201	581
CONTRACT NO. 62R89				
ILLINOIS FED. AID PROJECT				



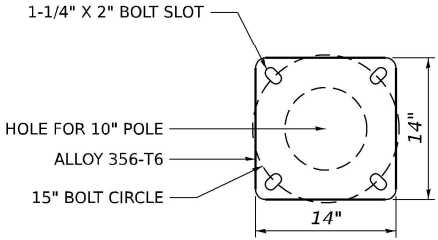
**TOP VIEW**  
**TYPE A FOUNDATION FOR FUTURE**  
**SERVICE DISCONNECT**



**TOP VIEW**  
**TYPE E FOUNDATION**  
**FOR FUTURE CCTV POLE**

**NOTES**

1. TOP VIEW FOR CONCRETE FOUNDATIONS, TYPE A AND E SHOWN ON THIS SHEET ARE FOR INFORMATION ONLY ON CONDUITS ENERTING FOUNDATION AND ANOCHOR BOLT CIRCLE DIMENSIONS REQUIRED FOR FUTURE EQUIPMENT INSTALLATION. FOR FURTHER FOUNDATION DETAILS, SEE HIGHWAY STANDARD 878001-11 (CONCRETE FOUNDATION DETAILS).



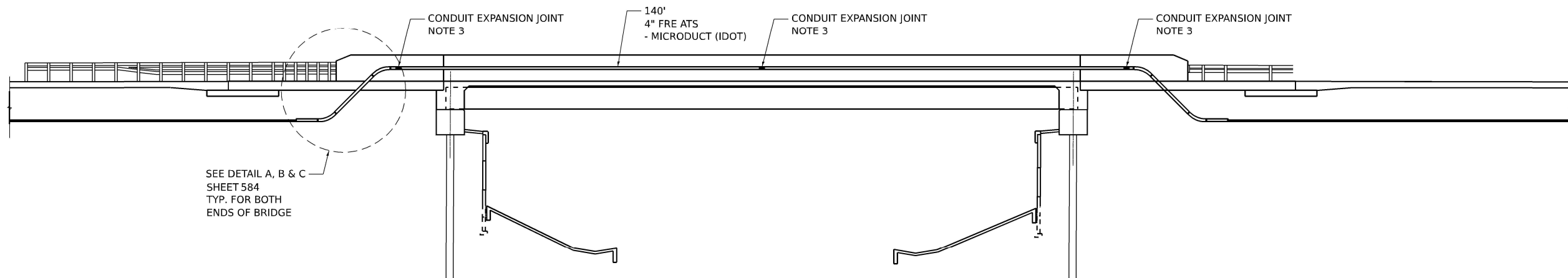
**FUTURE CCTV POLE BASE PLATE DETAIL**  
**15" BOLT CIRCLE**  
**(SHOWN FOR REFERENCE ONLY)**

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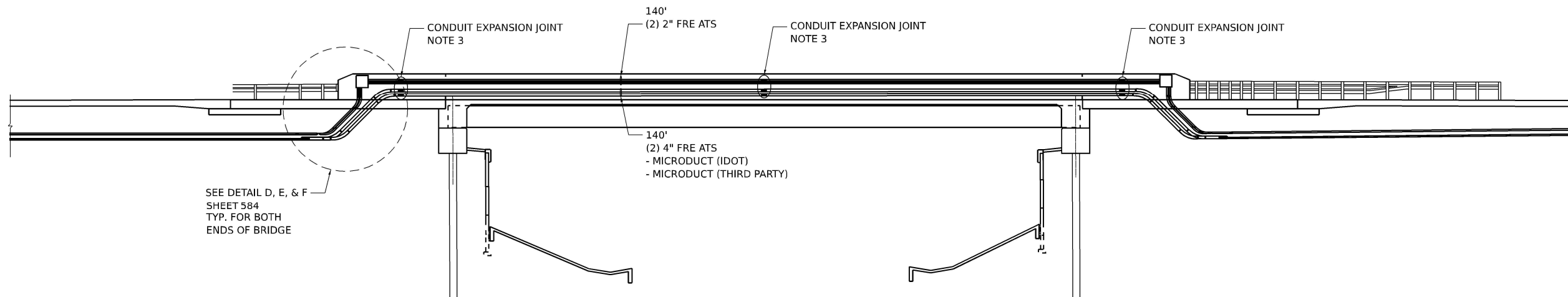
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ITS INFRASTRUCTURE DETAILS			
CONCRETE FOUNDATIONS			
SCALE: NONE	SHEET 8	OF 13 SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 22 BR	WILL	1201	582
CONTRACT NO. 62R89				
ILLINOIS   FED. AID PROJECT				



ITS CONDUIT ATTACHED TO STRUCTURE  
I-80 WB OVER JOLIET JUNCTION TRAIL  
ELEVATION



ITS CONDUIT ATTACHED TO STRUCTURE  
I-80 EB OVER JOLIET JUNCTION TRAIL  
ELEVATION

NOTES

1. THIS SHEET IS FOR ITS CONDUIT ATTACHED TO STRUCTURE ONLY. SEE STRUCTURE NO. 099-8320 (EB) AND 099-8321 (WB) SHEETS FOR BRIDGE PLANS.
2. CONDUIT SUPPORTS NOT SHOWN FOR CLARITY.
3. CONDUIT EXPANSION JOINTS SHALL BE INSTALLED AT EACH END OF THE BRIDGE AND AT ALL BRIDGE EXPANSION JOINT OR INTERIOR FULL-DEPTH PARAPET JOINT LOCATIONS AND PER MANUFACTURER'S RECOMMENDATIONS.

MODEL: ITS Detail 9  
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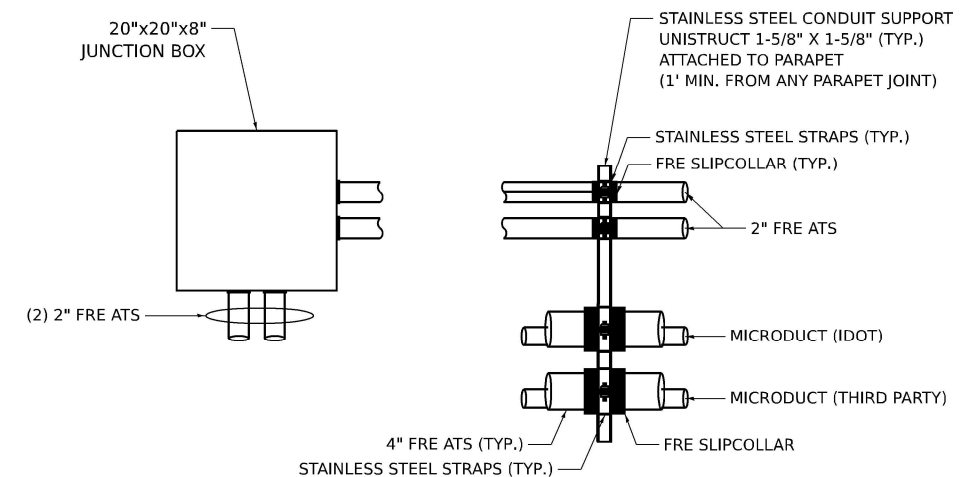
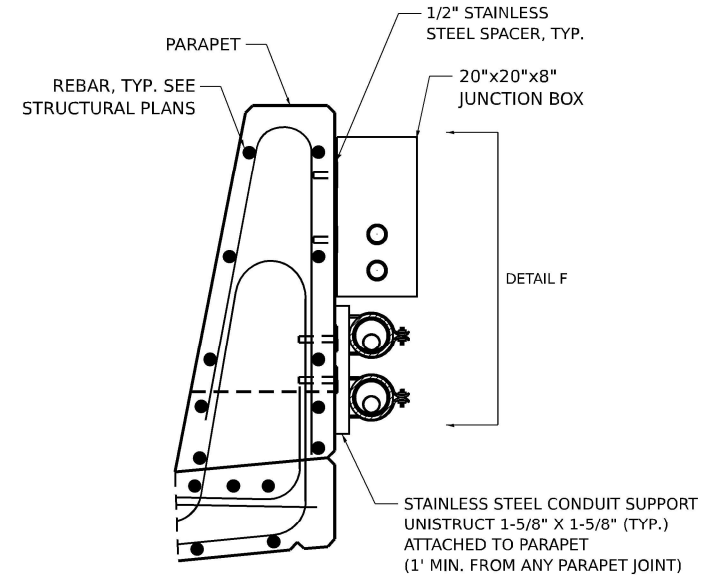
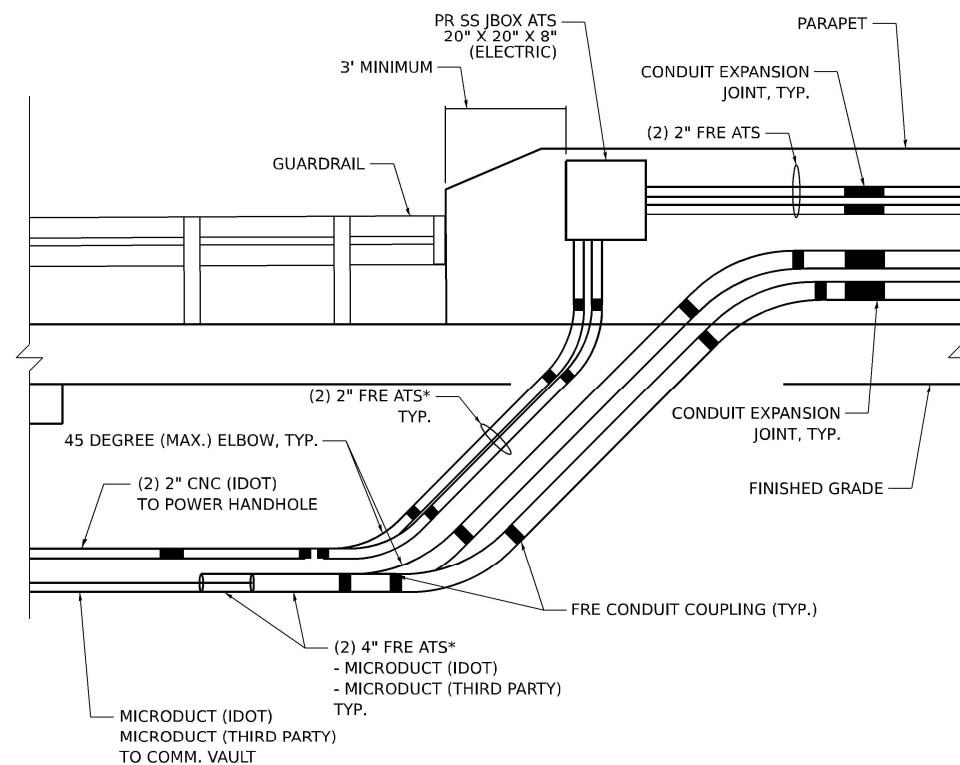
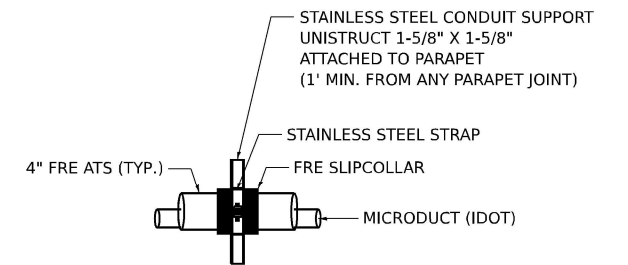
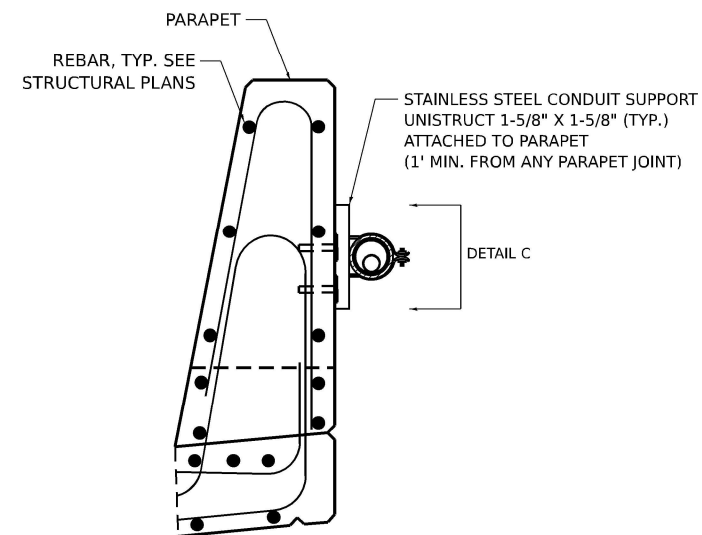
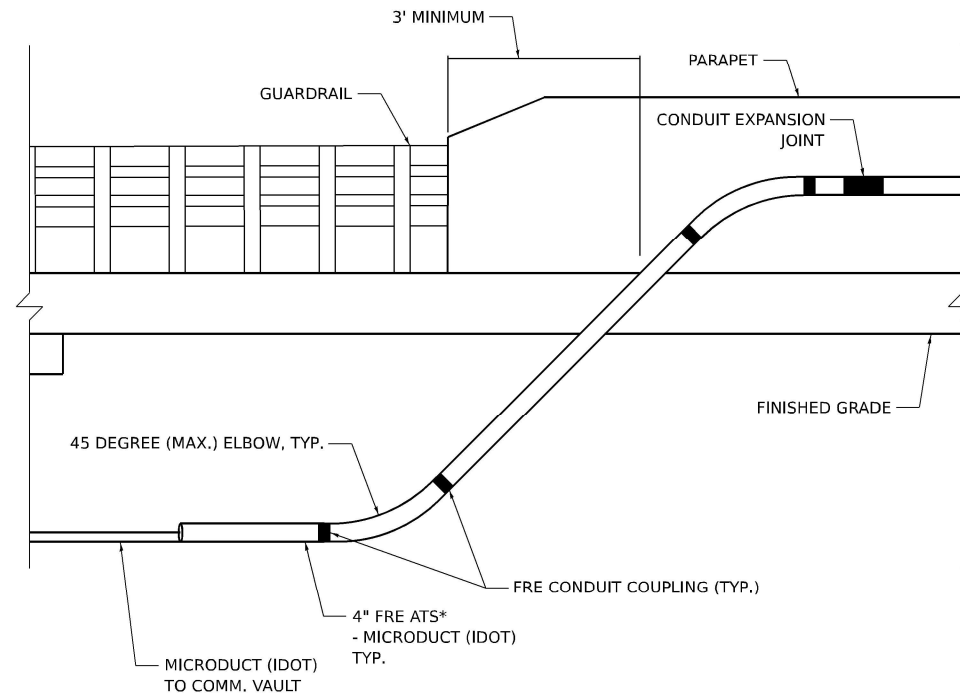
**TranSmart**  
100 S. Wacker Drive Suite 400  
Chicago, Illinois 60606

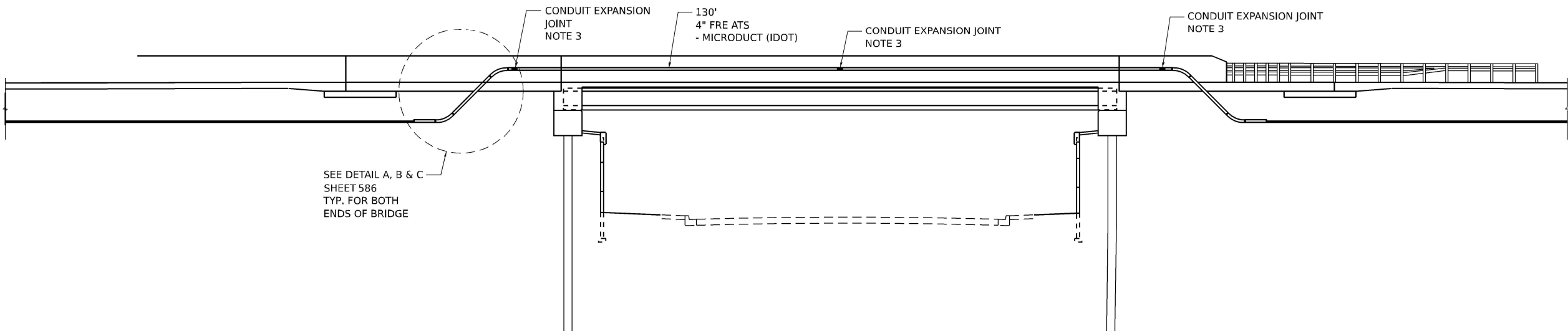
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

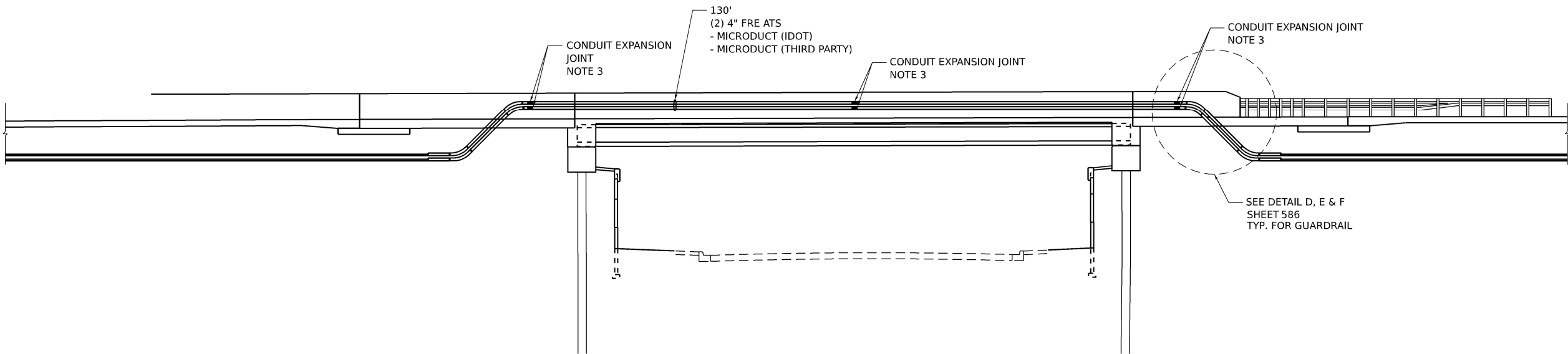
ITS INFRASTRUCTURE DETAILS			
CONDUIT ATS – JOLIET JUNCTION TRAIL			
SCALE: NONE	SHEET 9	OF 13 SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 22 BR	WILL	1201	583
CONTRACT NO. 62R89				
ILLINOIS FED. AID PROJECT				





**ITS CONDUIT ATTACHED TO STRUCTURE  
I-80 WB OVER MIDLAND AVE  
ELEVATION**



**ITS CONDUIT ATTACHED TO STRUCTURE  
I-80 EB OVER MIDLAND AVE  
ELEVATION**

**NOTES**

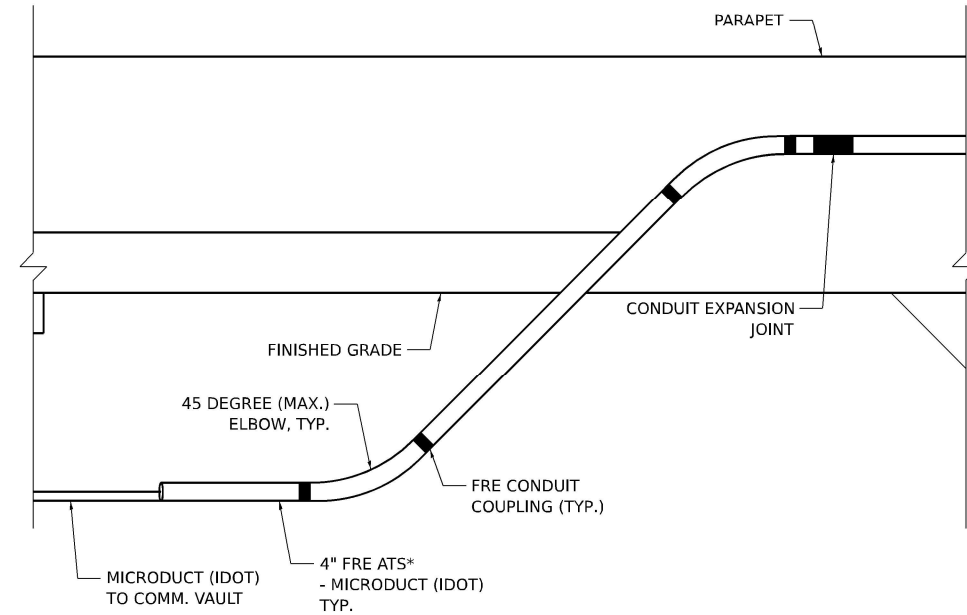
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2. CONDUIT SUPPORTS NOT SHOWN FOR CLARITY.
3. CONDUIT EXPANSION JOINTS SHALL BE INSTALLED AT EACH END OF THE BRIDGE AND AT ALL BRIDGE EXPANSION JOINT OR FULL-DEPTH PARAPET JOINT LOCATIONS AND PER MANUFACTURER'S RECOMMENDATIONS.

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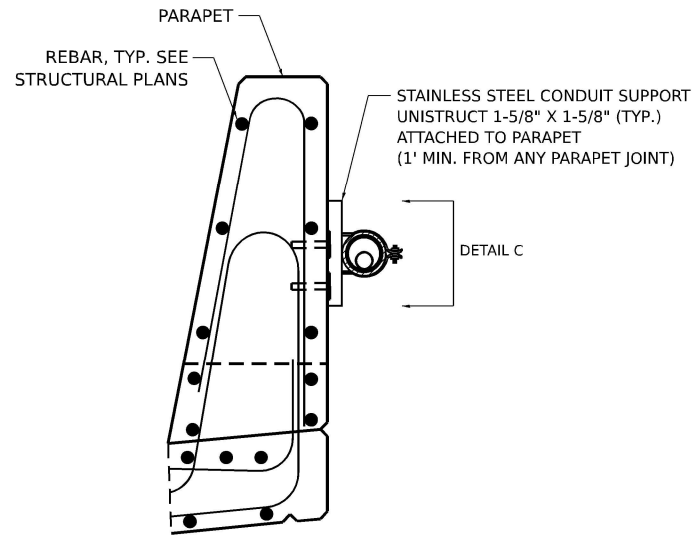
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PLOT DATE	= 10/5/2023	DATE -	10/6/23	REVISED -	

ITS INFRASTRUCTURE DETAILS CONDUIT ATS – MIDLAND			
SCALE: NONE	SHEET 11	OF 13 SHEETS	STA. TO STA.

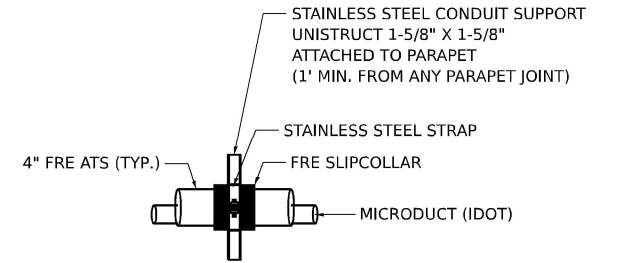
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 22 BR	WILL	1201	585
CONTRACT NO. 62R89				
		ILLINOIS	FED. AID PROJECT	



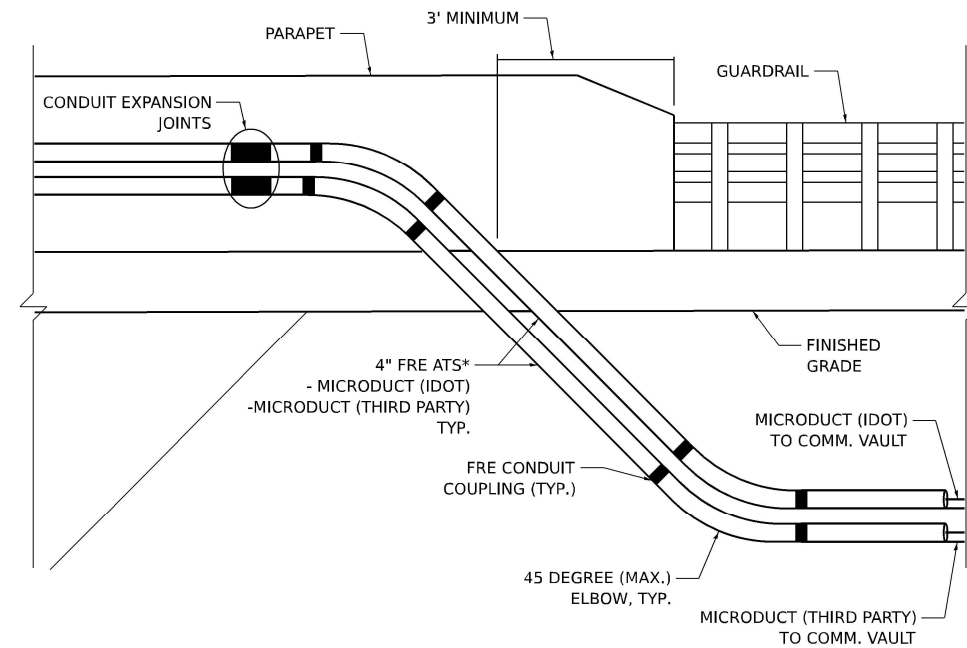
**DETAIL A**  
**I-80 WB OVER MIDLAND AVE**  
**EAST END OF BRIDGE**



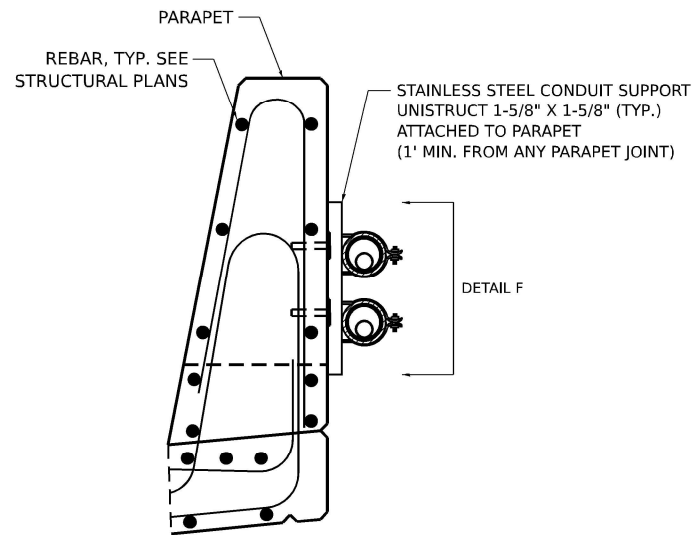
**DETAIL B**  
**I-80 WB OVER MIDLAND AVE**  
**BRIDGE PARAPET CROSS SECTION**



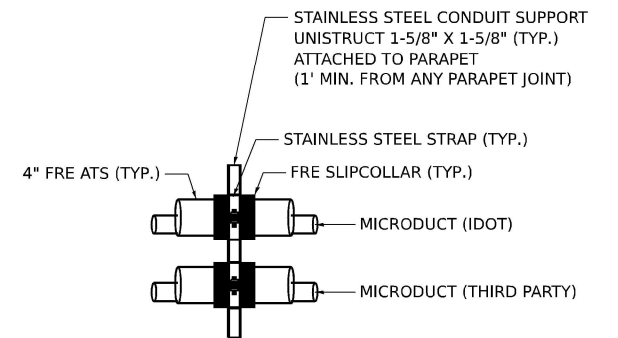
**DETAIL C**  
**I-80 WB OVER MIDLAND AVE**  
**TYPICAL CONDUIT SUPPORT DETAIL**



**DETAIL D**  
**I-80 EB OVER MIDLAND AVE**  
**WEST END OF BRIDGE**



**DETAIL E**  
**I-80 EB OVER MIDLAND AVE**  
**BRIDGE PARAPET CROSS SECTION**



**DETAIL F**  
**I-80 EB OVER MIDLAND AVE**  
**TYPICAL CONDUIT SUPPORT DETAIL**

MODEL: ITS Detail 12  
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**TranSmart**  
100 S. Wacker Drive Suite 400  
Chicago, Illinois 60606

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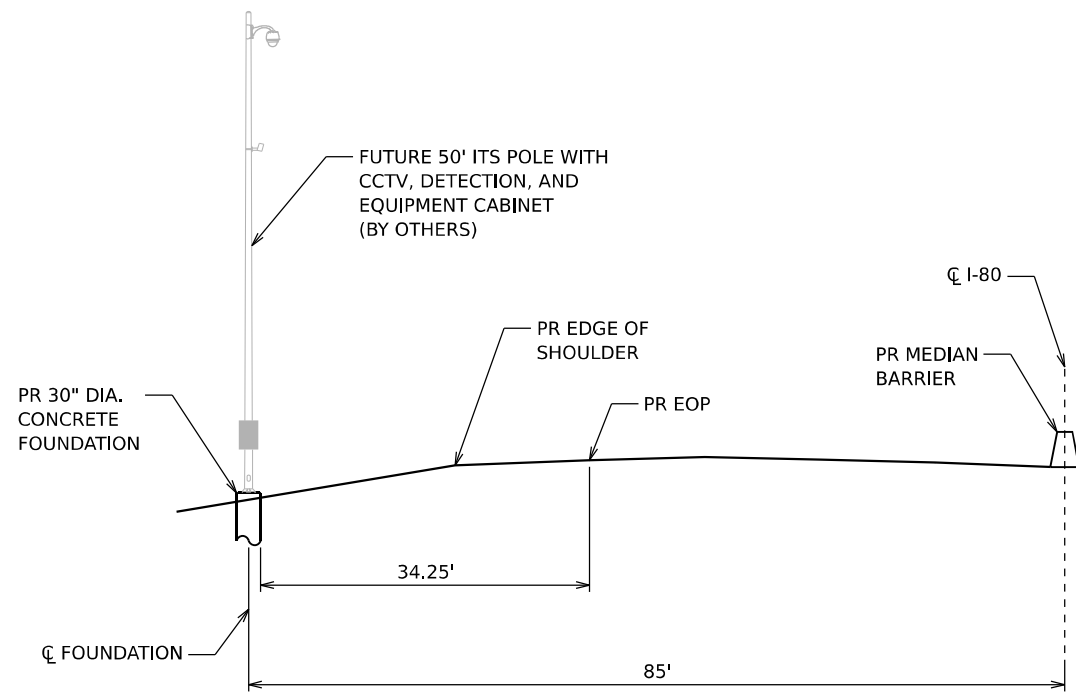
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**ITS INFRASTRUCTURE DETAILS**  
**CONDUIT ATS – MIDLAND**

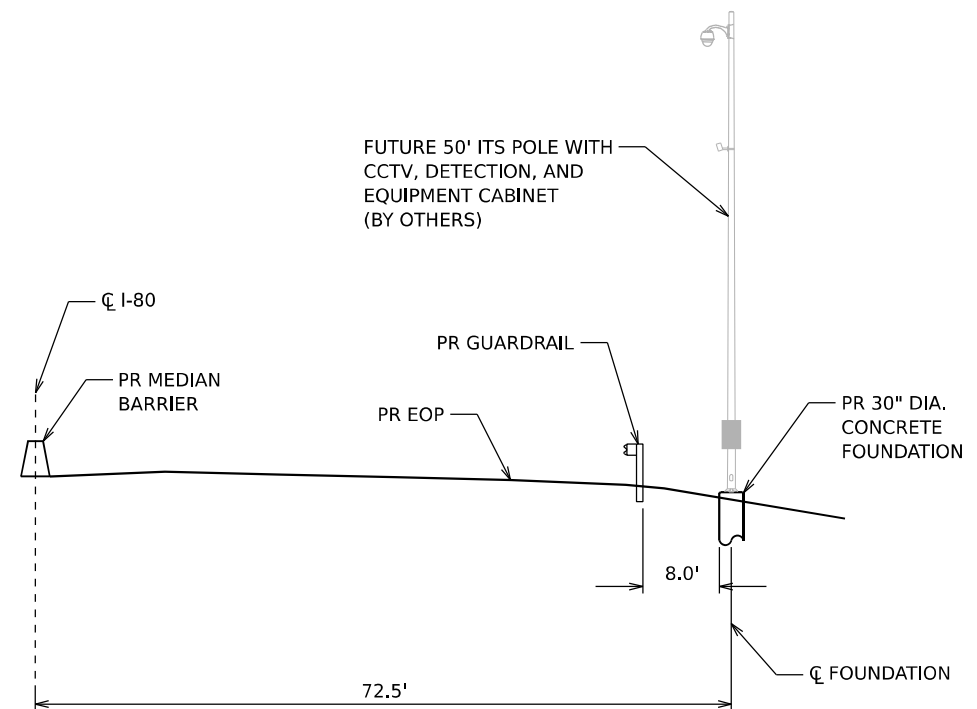
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 22 BR	WILL	1201	586
CONTRACT NO. 62R89				
ILLINOIS FED. AID PROJECT				





**STA 520+00  
(LOOKING EAST)  
30" DIA. CONCRETE FOUNDATION**



**STA 541+50  
(LOOKING EAST)  
30" DIA. CONCRETE FOUNDATION**

MODEL ITS XSC-1  
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

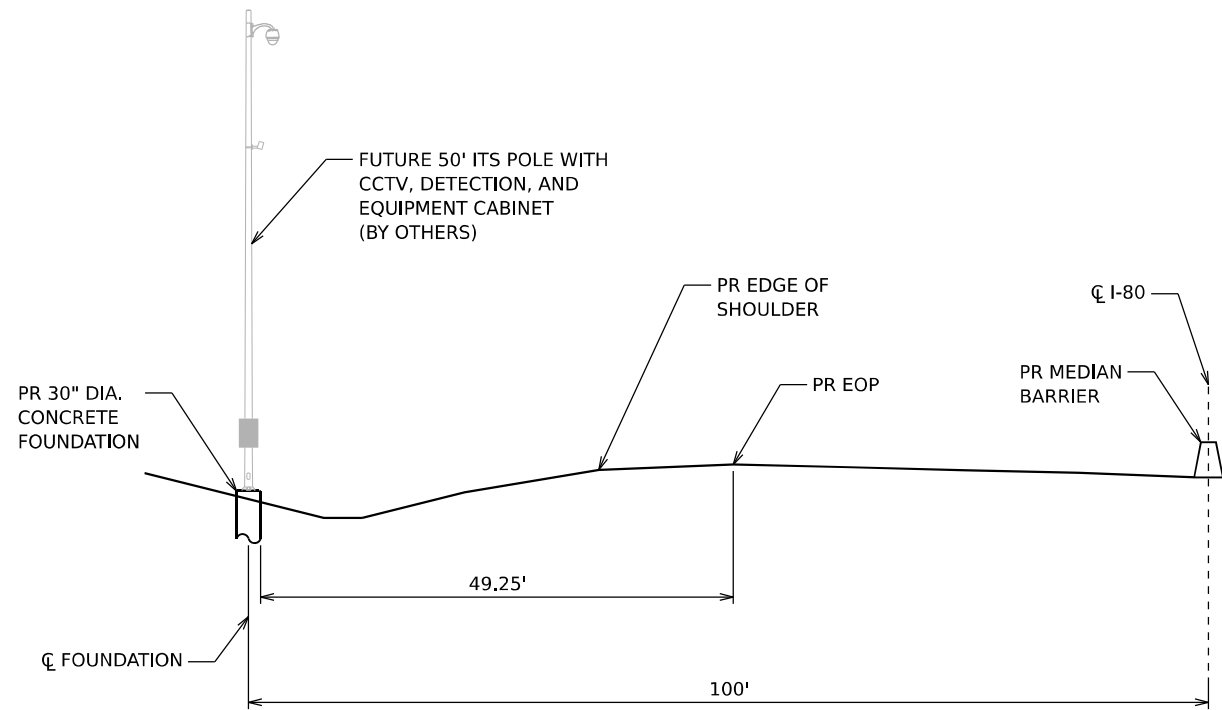
**ITS CROSS SECTIONS**

SCALE: NONE    SHEET 1    OF 5    SHEETS    STA.    TO STA.

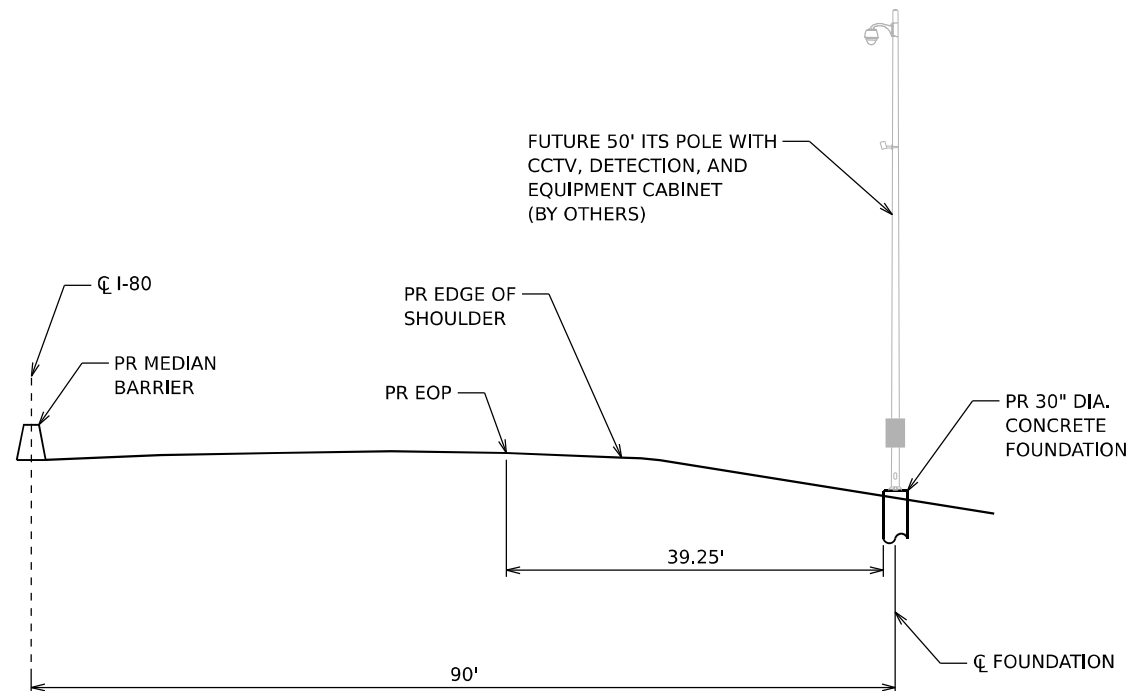
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 22 BR	WILL	1201	588
CONTRACT NO. 62R89				
ILLINOIS   FED. AID PROJECT				



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**STA 555+90  
(LOOKING EAST)  
30" DIA. CONCRETE FOUNDATION**



**STA 582+00  
(LOOKING EAST)  
30" DIA. CONCRETE FOUNDATION**



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PLOT DATE	= 10/5/2023

DESIGNED	-	CS
DRAWN	-	CS
CHECKED	-	BRH
DATE	-	10/6/23

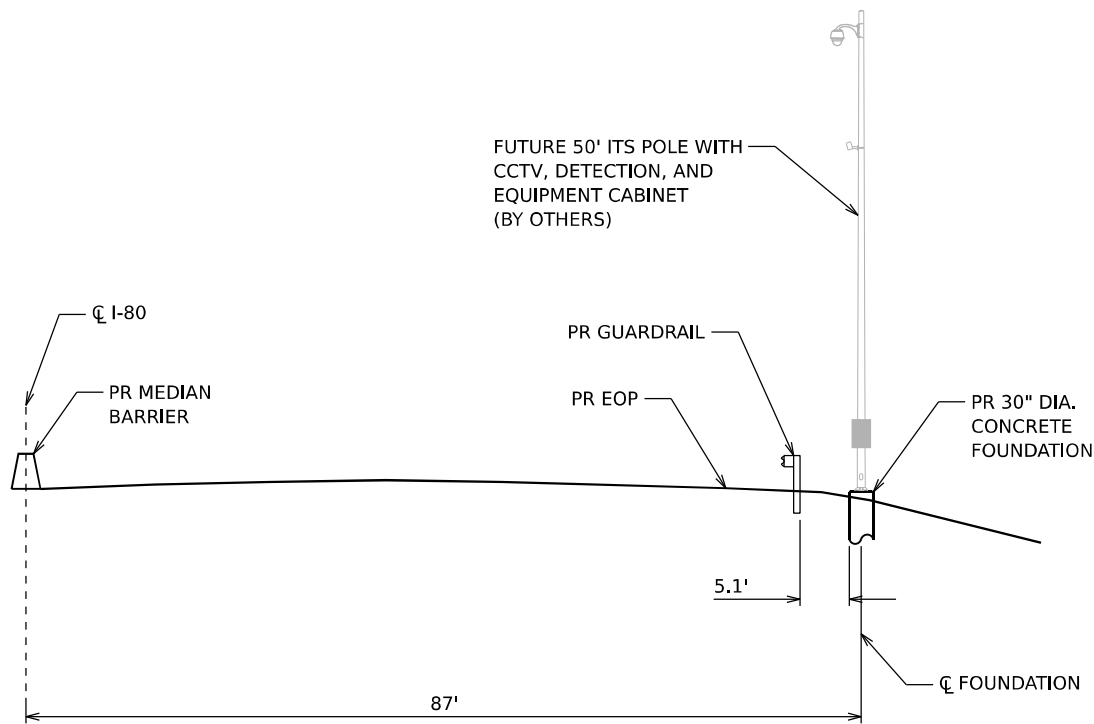
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

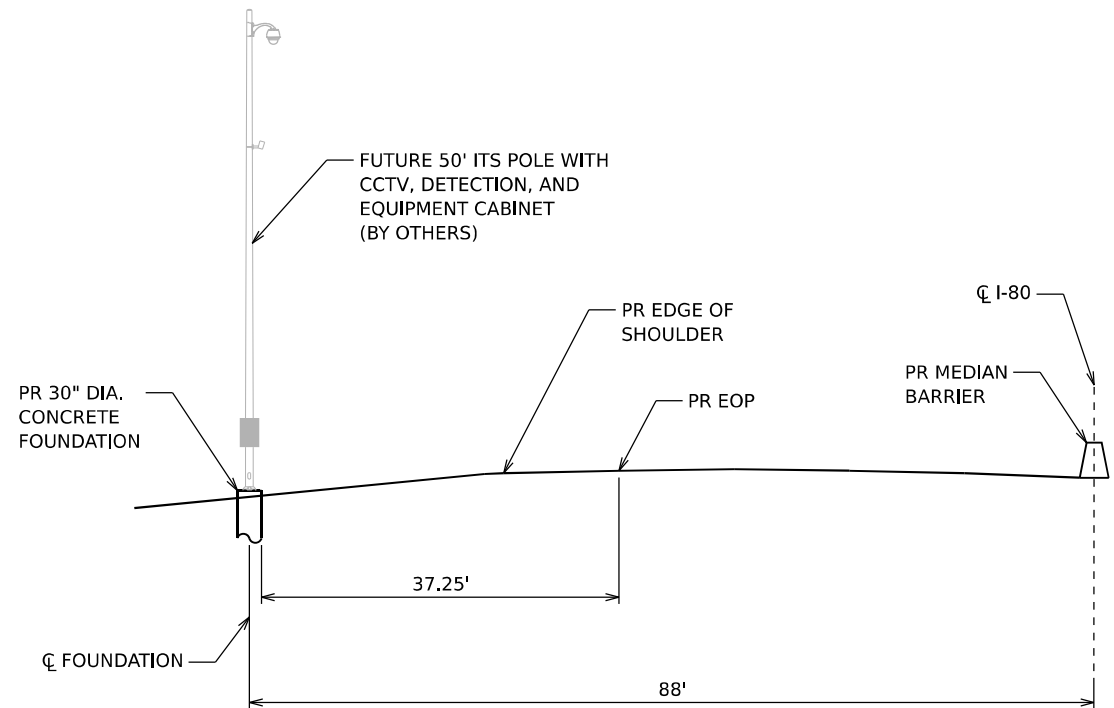
**ITS CROSS SECTIONS**

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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 22 BR	WILL	1201	589
CONTRACT NO. 62R89				
ILLINOIS FED. AID PROJECT				



**STA 588+00  
(LOOKING EAST)  
30" DIA. CONCRETE FOUNDATION**



**STA 596+00  
(LOOKING EAST)  
30" DIA. CONCRETE FOUNDATION**

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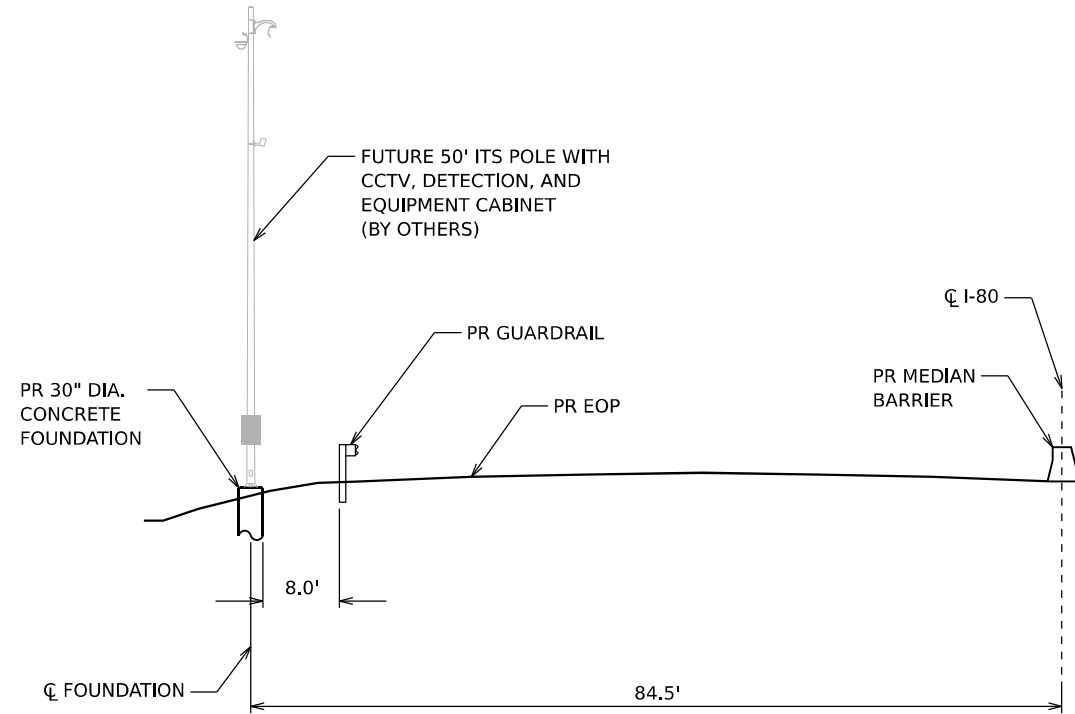
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

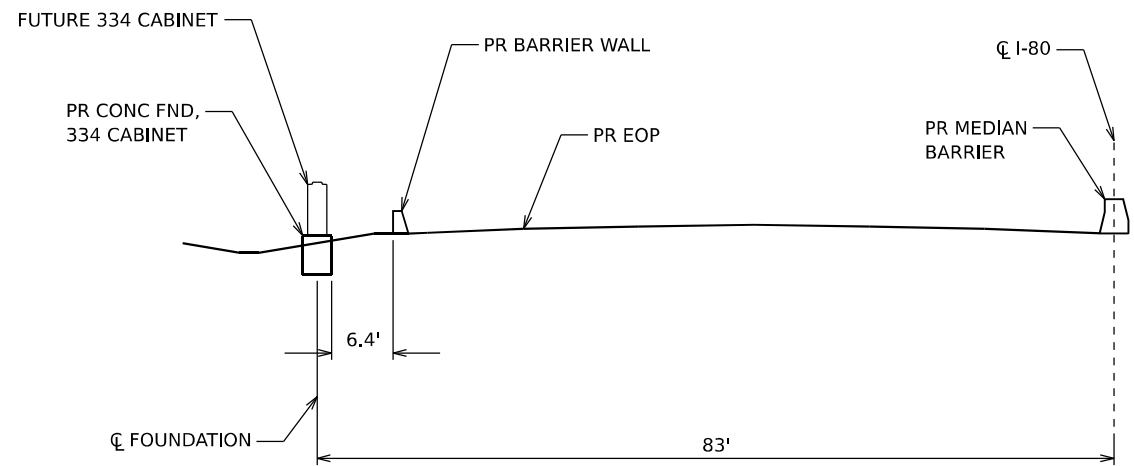
**ITS CROSS SECTIONS**

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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 22 BR	WILL	1201	590
CONTRACT NO. 62R89				
ILLINOIS   FED. AID PROJECT				



**STA 613+60  
(LOOKING EAST)  
30" DIA. CONCRETE FOUNDATION**



**STA 625+85  
(LOOKING EAST)  
334 CABINET FOUNDATION**

MODEL ITS XSC4  
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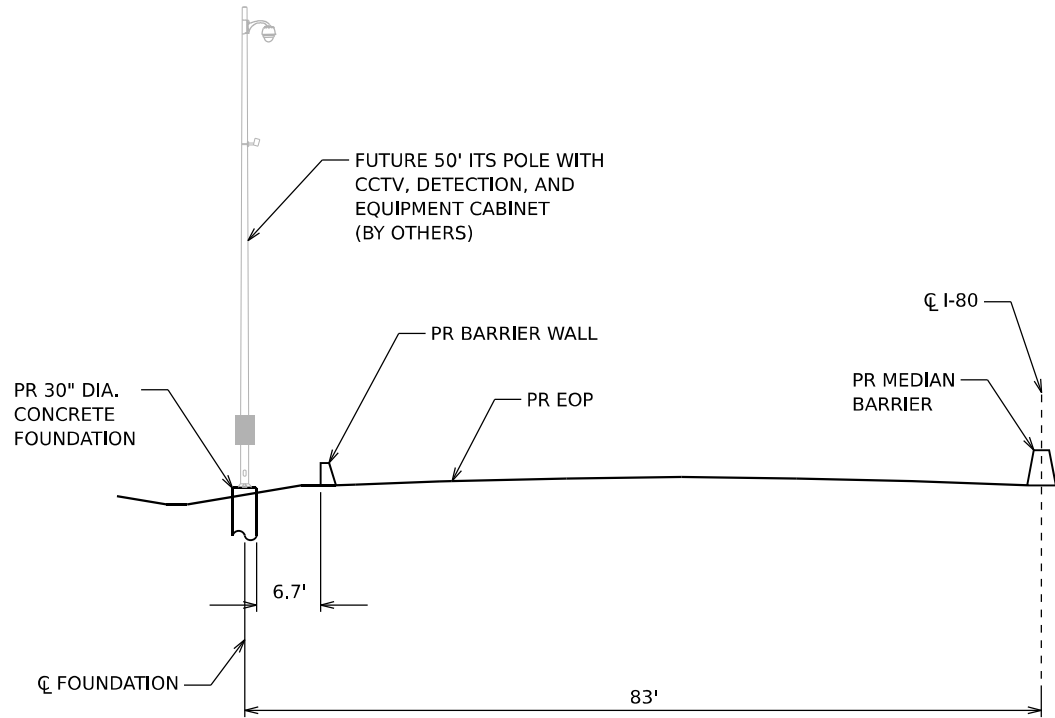
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PLOT DATE	= 10/5/2023	DATE -	10/6/23	REVISED -	

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ITS CROSS SECTIONS**

SCALE: NONE    SHEET 4    OF 5    SHEETS    STA.    TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 22 BR	WILL	1201	591
CONTRACT NO. 62R89				
ILLINOIS FED. AID PROJECT				



**STA 628+75**  
**(LOOKING EAST)**  
**30" DIA. CONCRETE FOUNDATION**

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PLOT DATE	= 10/5/2023	DATE -	10/6/23	REVISED -	

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

**ITS CROSS SECTIONS**

SCALE: NONE      SHEET 5      OF 5      SHEETS      STA.      TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 22 BR	WILL	1201	592
CONTRACT NO. 62R89				
		ILLINOIS	FED. AID PROJECT	

## GENERAL NOTES

DESIGN: AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals. ("AASHTO Specifications")

CONSTRUCTION: Current (at time of letting) Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, Supplemental Specifications and Special Provisions. ("Standard Specifications")

LOADING: 90 M.P.H. WIND VELOCITY

WALKWAY LOADING: Dead load plus 500 lbs. concentrated live load.

**DESIGN STRESSES:**  
Field Units  
 $f_c = 3,500$  p.s.i.  
 $f_y = 60,000$  p.s.i. (reinforcement)

**WELDING:** All welds to be continuous unless otherwise shown. All welding to be done in accordance with current AWS D1.1 and D1.2 Structural Welding Codes (Steel and Aluminum) and the Standard Specifications.

**MATERIALS:** Aluminum Alloys as shown throughout plans. All Structural Steel Pipe shall be ASTM A53 Grade B or A500 Grade B or C. If A500 pipe is substituted for A53, then the outside diameter shall be as detailed and wall thickness greater than or equal to A53. All Structural Steel Plates and Shapes shall conform to AASHTO M270 Gr. 36, Gr. 50 or Gr. 50W\*. Stainless steel for shims, sleeves and handhole covers shall be ASTM A240, Type 302 or 304, or another alloy suitable for exterior exposure and acceptable to the Engineer. The steel pipe and stiffening ribs at the base plate for the column shall have a minimum longitudinal Charpy V-Notch (CVN) energy of 15 lb.-ft. at 40° F. (Zone 2) before galvanizing.

**FASTENERS FOR ALUMINUM TRUSSES:** All bolts noted as "high strength" must satisfy the requirements of AASHTO M164 (ASTM A325), or approved alternate, and must have matching lock nuts. Threaded studs for splices (if Members interfere) must satisfy the requirements of ASTM A449, ASTM A193, Grade B7, or approved alternate, and must have matching lock nuts. Bolts and lock nuts not required to be high strength must satisfy the requirements of ASTM A307. All bolts and lock nuts must be hot dip galvanized per AASHTO M232. The lock nuts must have nylon or steel inserts. A stainless steel flat washer conforming to ASTM A240 Type 302 or 304, is required under both head and nut or under both nuts where threaded studs are used. High strength bolt installation shall conform to Article 505.04 (f) (2)d of the IDOT Standard Specifications for Road and Bridge Construction. Rotational capacity ("ROCAP") testing of bolts will not be required.

**U-BOLTS AND EYEBOLTS:** U-Bolts and Eyebolts must be produced from ASTM A276 Type 304, 304L, 316 or 316L, Condition A, cold finished stainless steel, or an equivalent material acceptable to the Engineer. All nuts for U-Bolts and Eyebolts must be lock nuts equivalent to ASTM A307 with nylon or steel inserts and hot dip galvanized per AASHTO M232. A stainless steel flat washer conforming to ASTM A240, Type 302 or 304, is required under each U-Bolt and Eyebolt lock nut.

*GALVANIZING: All Steel Grating, Plates, Shapes and Pipe shall be Hot Dip Galvanized after fabrication in accordance with AASHTO M111. Painting is not permitted.*

**ANCHOR RODS:** Shall conform to ASTM F1554 Gr. 105

**CONCRETE SURFACES:** All concrete surfaces above an elevation 6" below the lowest final ground line at each foundation shall be eaned and coated with Concrete Sealer in accordance with the Standard Specifications.

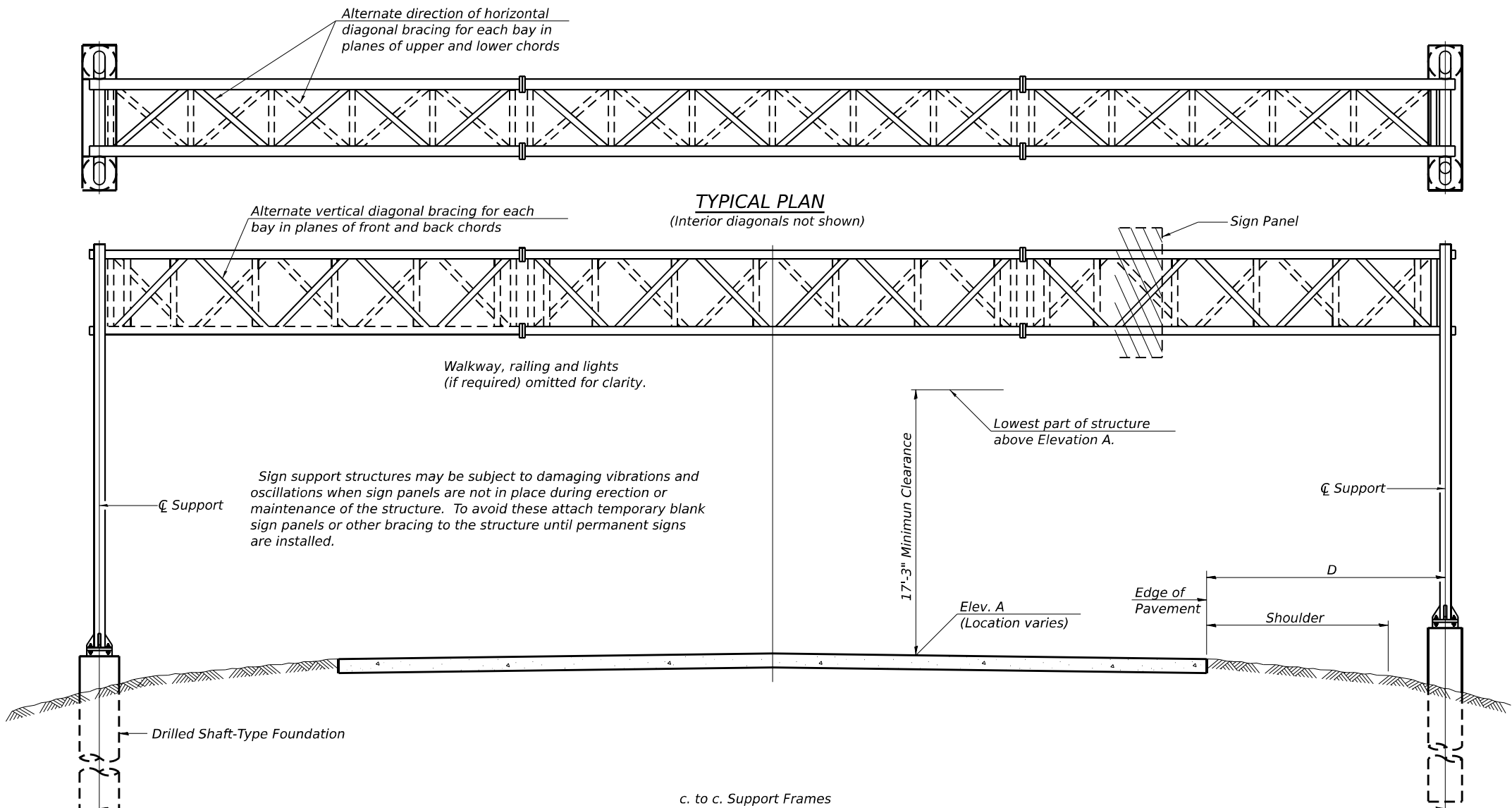
**REINFORCEMENT BARS:** Reinforcement Bars designated (E) shall be epoxy coated in accordance with the Standard Specifications.

*FOUNDATIONS: The contract unit price for Concrete Foundations and Drilled Shaft Concrete Foundations shall include reinforcement bars complete in place*

**FOUNDATION REMOVAL:** Existing foundation removal shall be at least 3 feet below existing ground.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
OVERHEAD SIGN STRUCTURE - SPAN, TYPE III-A (5'-0" X 7'-0")	Foot	82
OVERHEAD SIGN STRUCTURE WALKWAY, TYPE A	Foot	49
DRILLED SHAFT CONCRETE FOUNDATIONS	Cu Yd	30.7
REMOVE OVERHEAD SIGN STRUCTURE - SPAN	Each	1
REMOVE CONCRETE FOUNDATION - OVERHEAD	Each	4



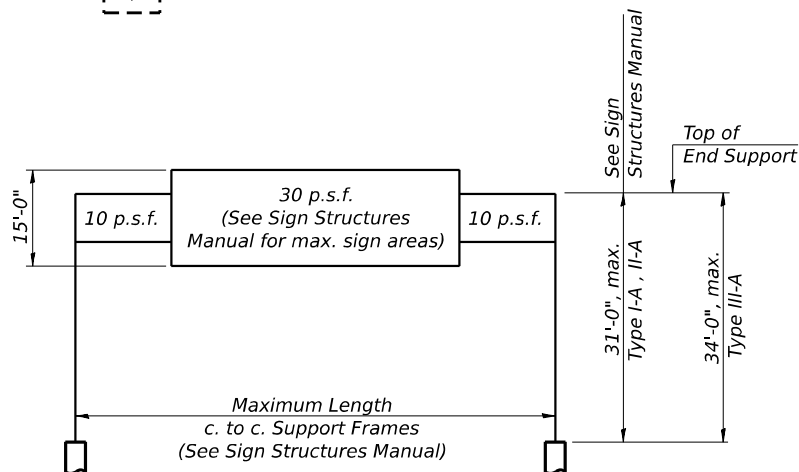
**TYPICAL ELEVATION**  
(Looking at Face of Signs\*\*)

*Elev. A = Elevation at point of minimum clearance to sign, walkway support or truss*

[illegible]

**\*\*Looking upstation for structures with signs both sides.**

\* If M270 Gr. 50W (M222) steel is proposed, chemistry for plate to be used shall first be approved by the Engineer as suitable for galvanizing and welding.

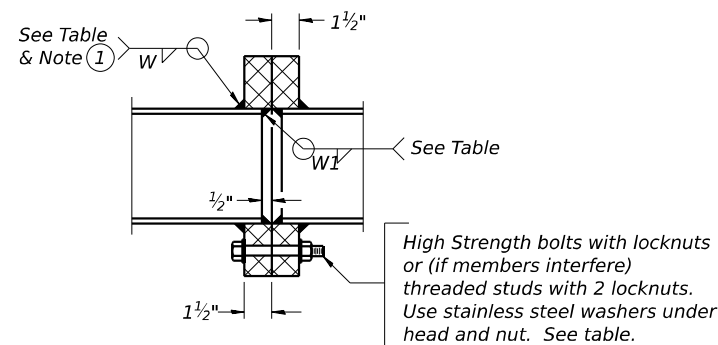


### DESIGN WIND LOADING DIAGRAM

*Parameters shown are basis for I.D.O.T. Standards and Sign Manual Tables. Installations not within dimensional limits shown require special analysis for all components.*

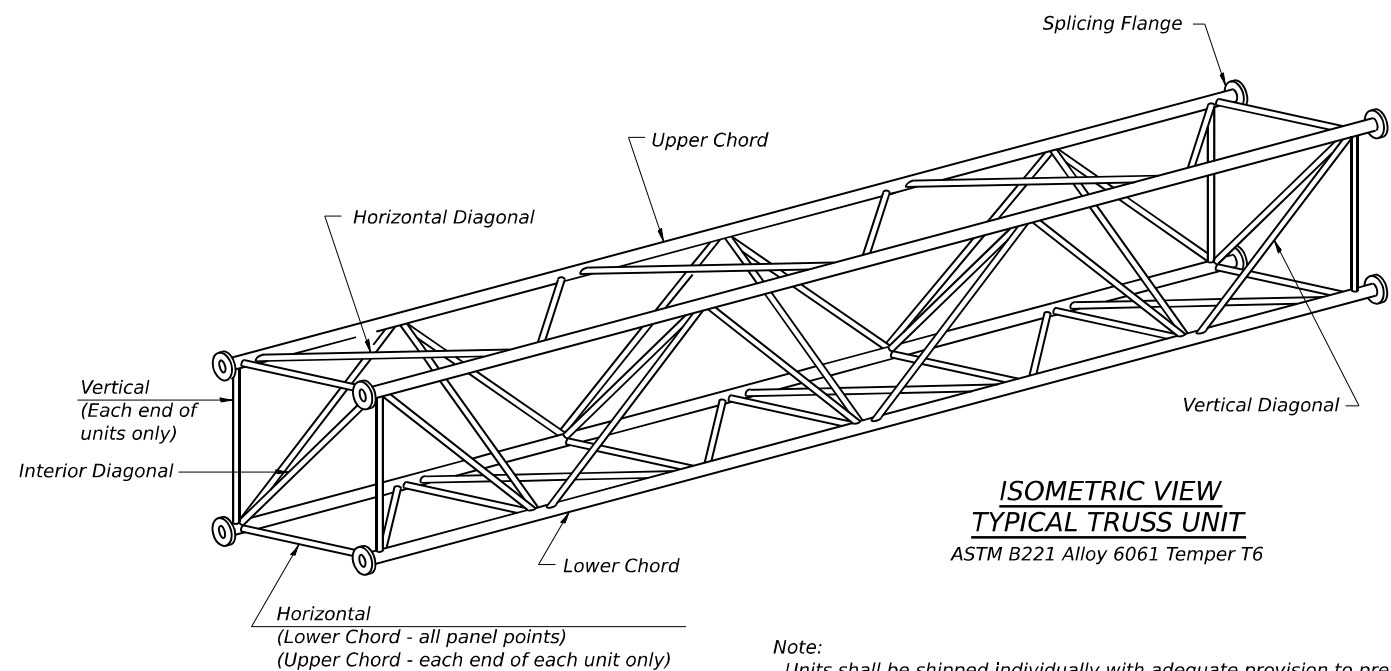


TRUSS UNIT TABLE

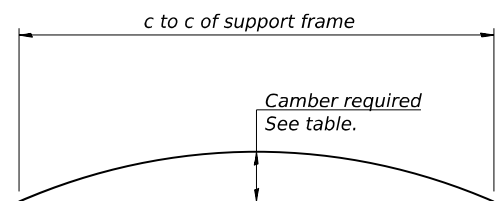
[illegible]

SECTION B-B

- ① *Splicing Flanges shall be attached to each truss unit with the truss shop assembled to camber shown. Truss units shall be in proper alignment and flange surfaces shall be shop bolted into full contact before welding. Sufficient external welds or tacks shall be made to secure flanges until remaining welds are made after disassembly. Adjacent flanges shall be "match marked" to insure proper field assembly.*



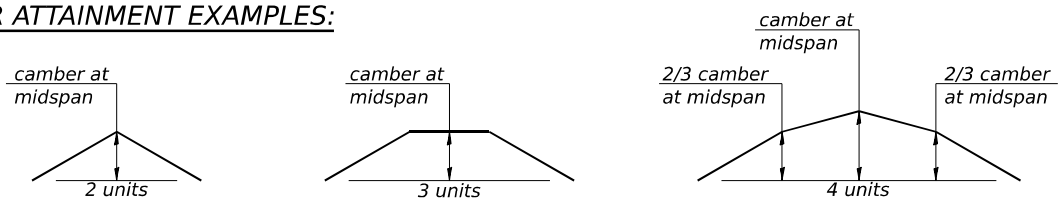
**Note:**  
*Units shall be shipped individually with adequate provision to prevent detrimental motion during transport. This may require ropes between horizontals and diagonals or energy dissipating (elastic) ties to the vehicle. The Contractor is responsible for maintaining the configuration and protection of the units.*



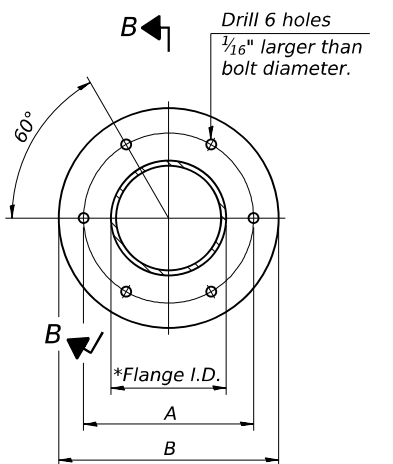
### CAMBER DIAGRAM

*Camber curve shown is theoretical. Actual camber attained by slope changes at splices between units.*

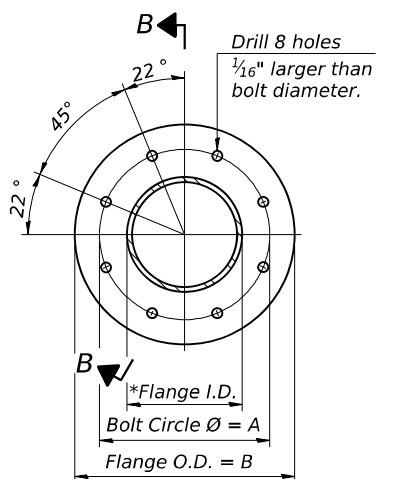
CAMBER ATTAINMENT EXAMPLES:



*Camber shown is for fabrication only, measured with truss fully supported. (No-load condition)*



TRUSS TYPES I-A, II-A, & III-A



TRUSS TYPES II-A & III-A

## SPLICING FLANGES

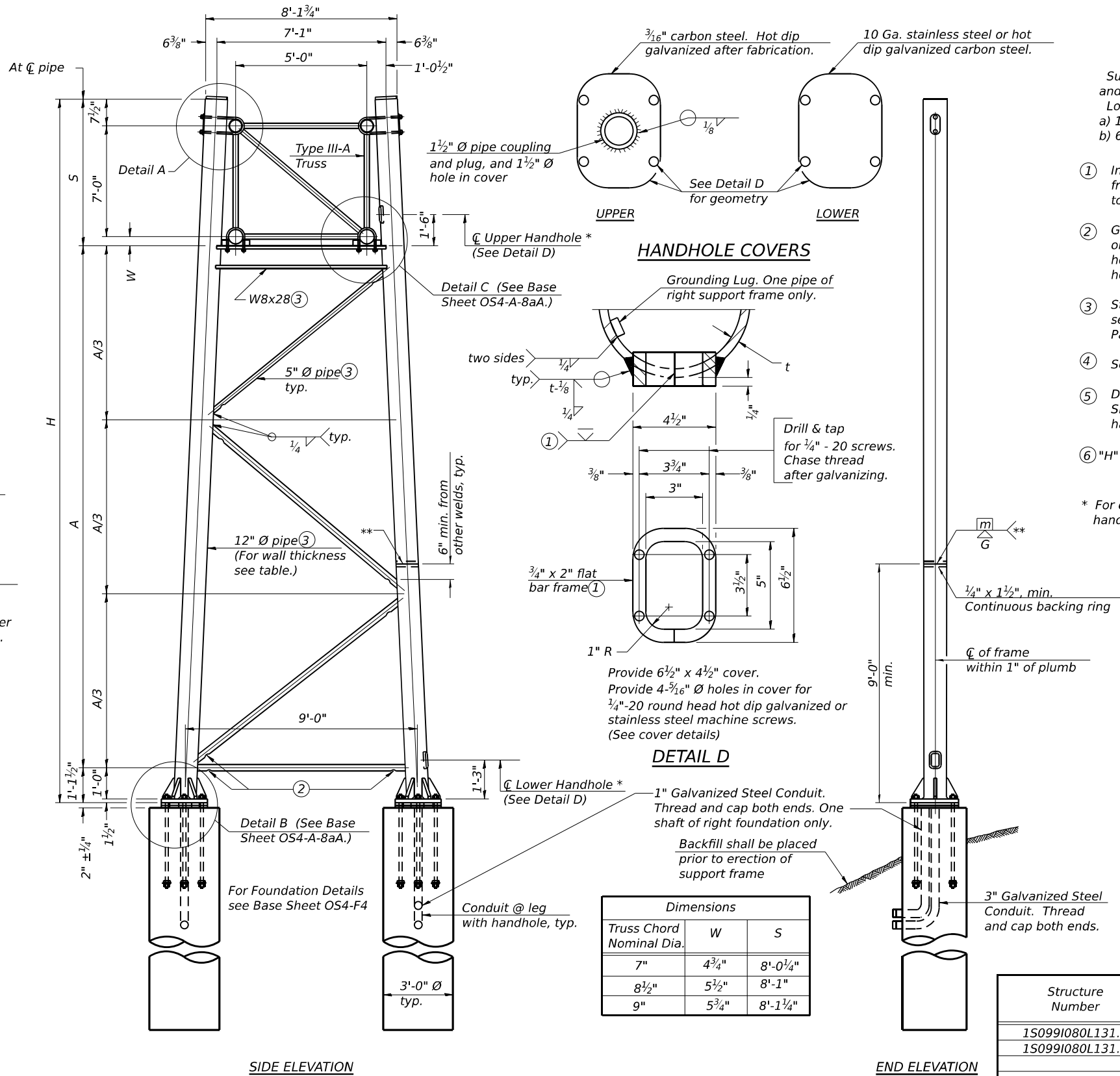
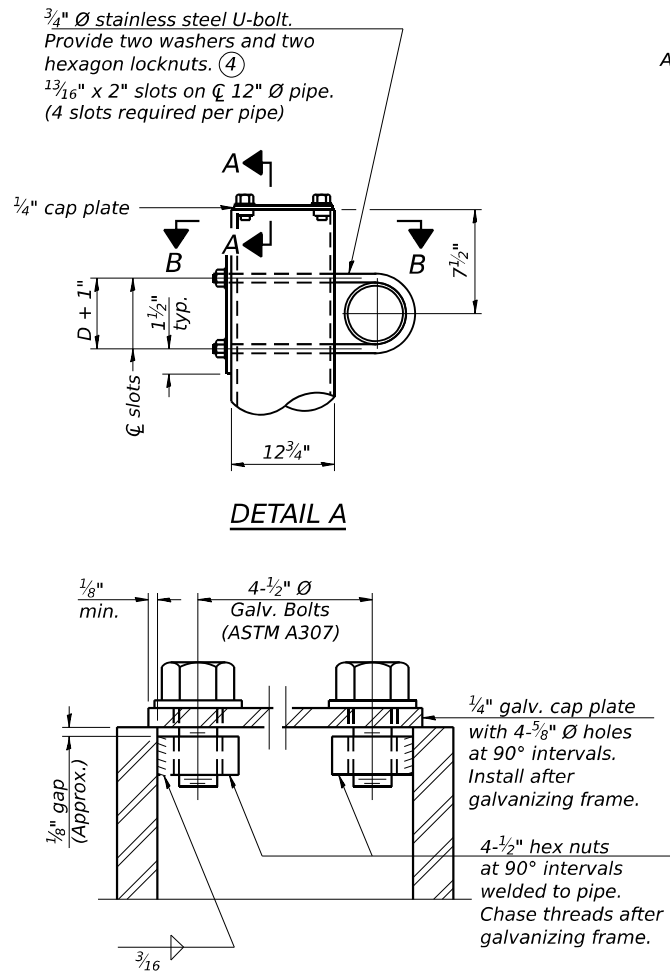
ASTM B221, Alloy 6061-T6  
or ASTM B209, Alloy 6061-T651

\*To fit O.D. of Chord with maximum gap of  $\frac{1}{16}$ ".





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- Support Design Loads: See Base Sheet OS-A-1 for design and loading criteria.  
Load combinations checked include deadload plus:  
a) 100% wind normal to sign, 20% parallel to sign  
b) 60% wind normal to sign, 30% parallel to sign
- In lieu of fabricated handhole frame as shown, may cut from 2" plate (rolling direction vertical). All cut faces to be ground to ANSI Roughness of 500  $\mu$ in or less.
  - Galvanizing vent holes of adequate size shall be provided on underside at each end of bracing pipes. Alternately, holes may be provided in wall of pipe column. All vent holes shall be drilled and de-burred, typ.
  - Steel pipe, plate, carbon steel handhole covers and rolled sections shall be hot dip galvanized after fabrication. Painting is not permitted. See Base Sheet OS-A-1.
  - See General Notes for fasteners.
  - Dimensions shown are based on selection criteria in the Sign Structures Manual. Nonstandard applications must have dimensions verified or amended as appropriate.
  - "H" based on 15'-0" or actual sign height, whichever is greater.
- \* For dynamic message sign installations, provide upper and lower handholes in both legs of each support frame.

#### TRUSS SUPPORT DETAILS

(12"  $\varnothing$  Pipe-Type III-A Truss)

\*\* One butt welded joint is allowed only on one post per support frame. If used, weld procedure must be pre-approved by Engineer and joint shall receive 100% RT or UT (tension criteria) at Contractor's expense.

Structure Number	Station	Support		Pipe Wall Thickness	H (6)	A
		Left	Right			
150991080L131.3	625+00	-	X	0.33"	28'-8 $\frac{3}{4}$ "	19'-7"
150991080L131.3	625+00	X	-	0.33"	25'-5 $\frac{3}{4}$ "	16'-4"



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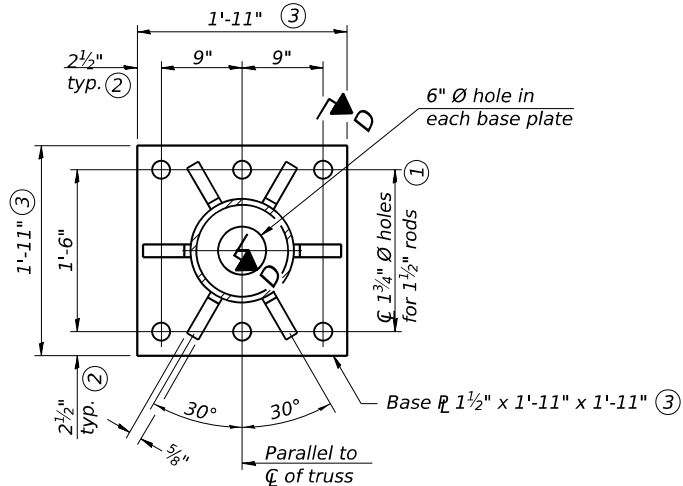
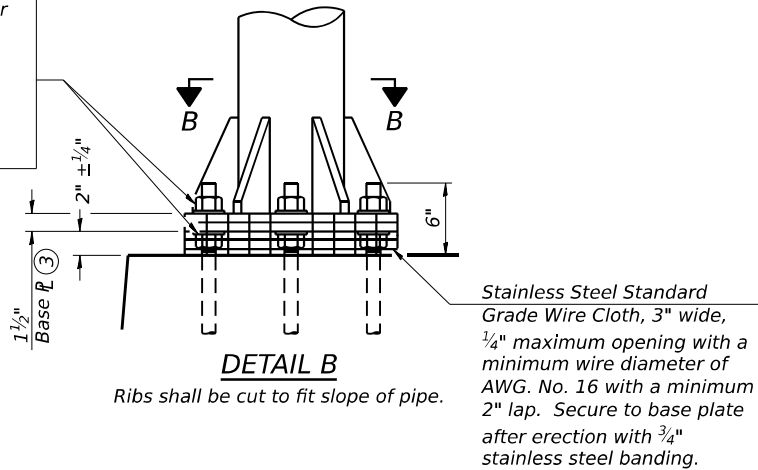
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES – SUPPORT FRAME  
FOR TYPE III-A ALUMINUM TRUSS

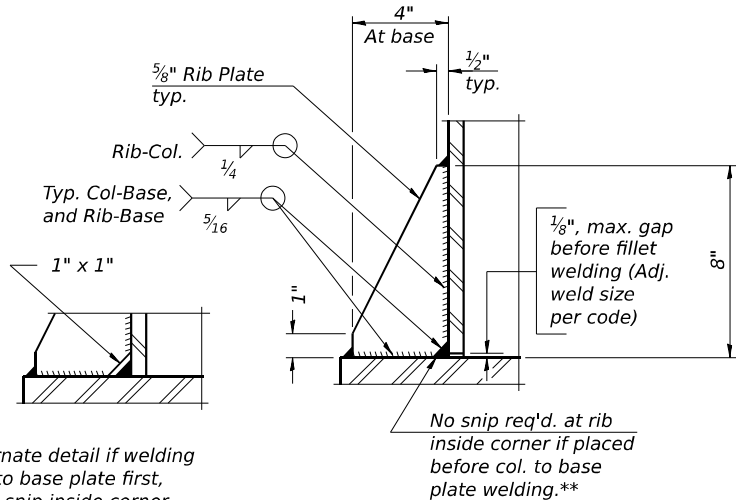
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 22 BR	WILL	1201	597
CONTRACT NO. 62R89				
ILLINOIS FED. AID PROJECT				

Hexagon locknut and washer (top), leveling nut and washer (bottom). Galvanize per AASHTO M232. Nuts shall each be tightened against base plate with 200 lb.-ft. minimum torque.

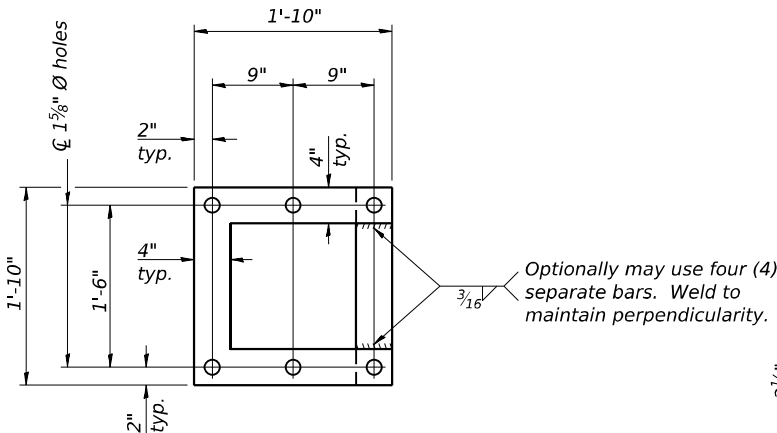


SECTION B-B

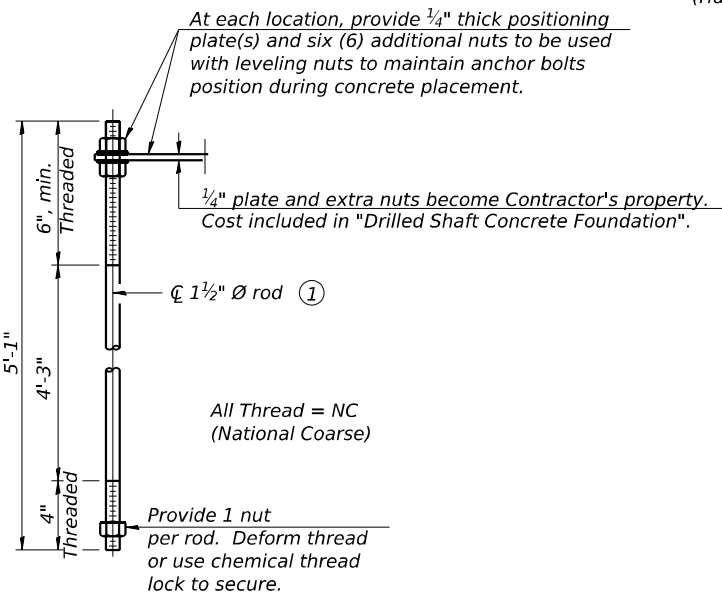


SECTION D-D

\*\* Alternate detail if welding col. to base plate first, then snip inside corner of ribs. Terminate weld on rib 1/4" from snip.



POSITIONING PLATE(S)



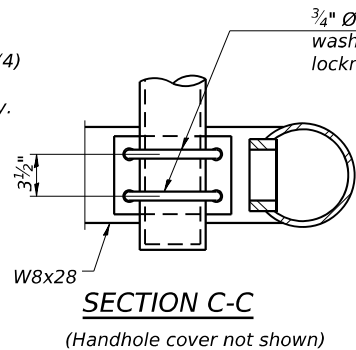
ANCHOR ROD DETAIL

Anchor rods shall conform to ASTM F1554 Grade 105 Galvanize upper 12" minimum per AASHTO M232. No welding shall be permitted on rods.

TYPE III-A TRUSS  
12" Ø PIPE SUPPORT FRAME DETAILS

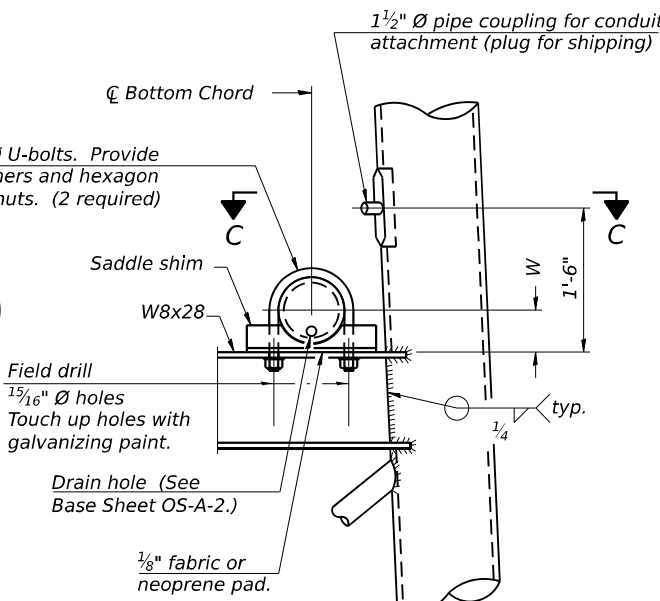
Notes:  
For Type III-A Truss spans greater than 150 ft, and up to 160 ft.:

- ① 1 3/4" Ø rod, 2" Ø holes
- ② 2 3/4" edge distance
- ③ Base P 1 5/8" x 1'-11 1/2" x 1'-11 1/2"

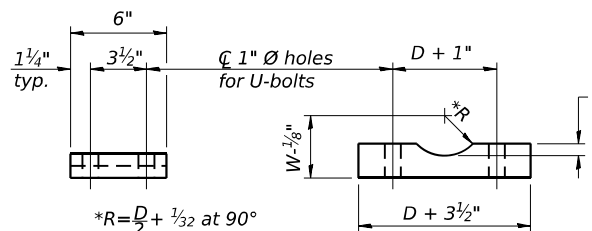


SECTION C-C

(Handhole cover not shown)



DETAIL C



SADDLE SHIM DETAIL

ASTM B26 Alloy 356-F  
or  
ASTM B209 Alloy 6061-T651  
(4 required per sign truss)

Truss Chord Nominal Dia.	a
7"	1"
8 1/2"	1 1/4"
9"	1 3/8"

OS4-A-8aA

2-17-2017



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	DATE -	REVISED -

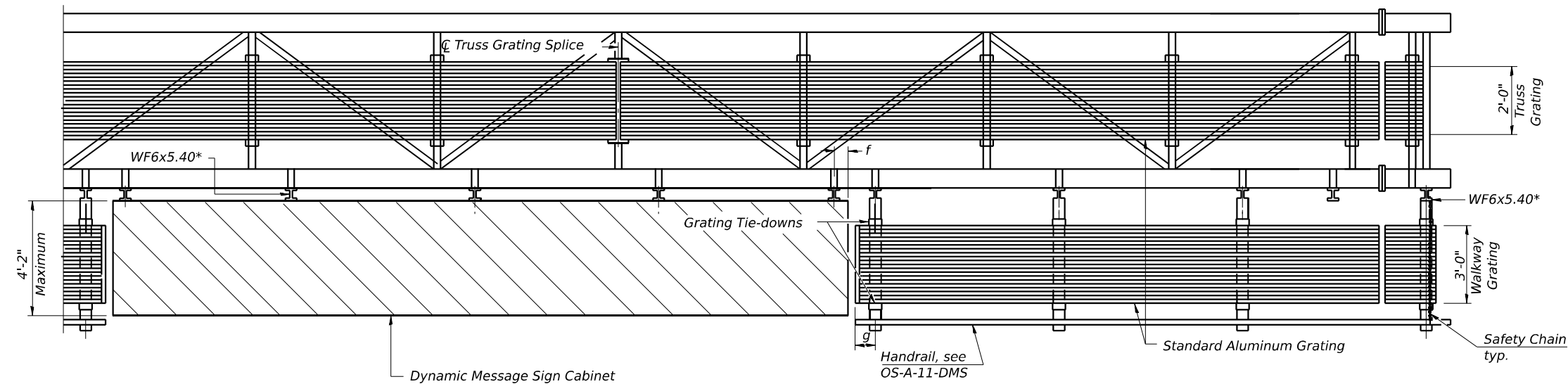
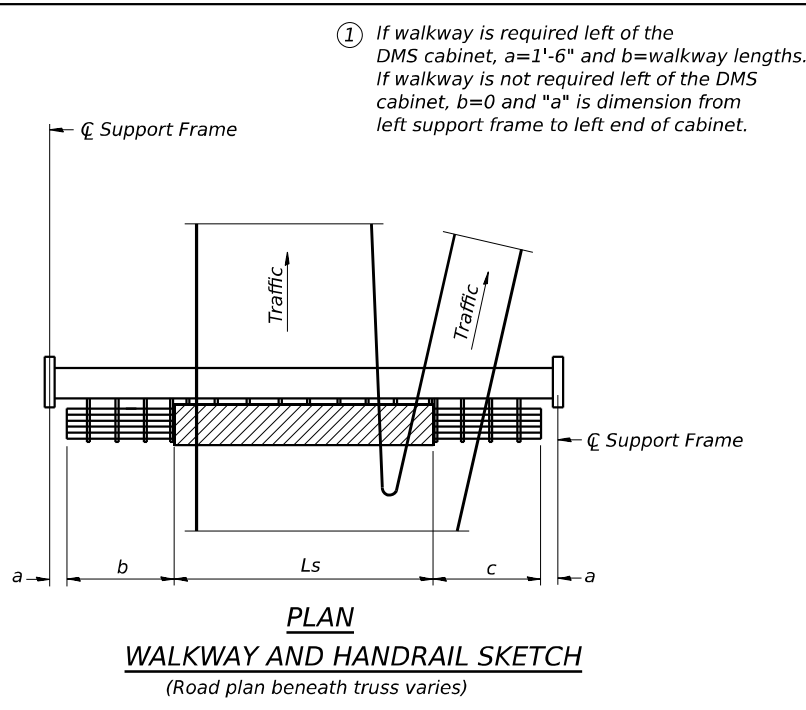
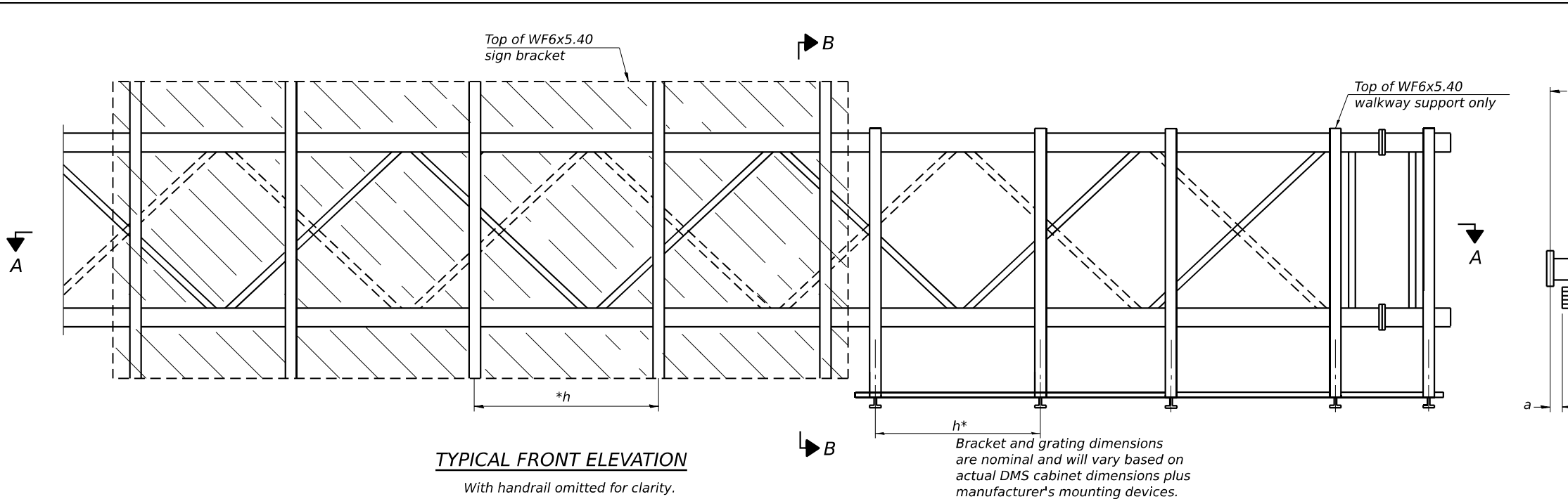
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES  
SUPPORT FRAME FOR TYPE III-A ALUMINUM TRUSS

SCALE: SHEET 6 OF 12 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 22 BR	WILL	1201	598
CONTRACT NO. 62R89				
ILLINOIS FED. AID PROJECT				

Model: Default  
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WF6x5.40 ASTM B308, Alloy 6061-T6		
Sign Width		Number Brackets Required
Greater Than	Less Than or Equal To	
	8'-0"	2
8'-0"	14'-0"	3
14'-0"	20'-0"	4
20'-0"	26'-0"	5
26'-0"	32'-0"	6

SECTION A-A

Handrail and walkway shall span a minimum of three brackets between splices and/or gap joints.  
Place all sign and walkway brackets as close to panel points as practical.  
Grating and handrail splices placed as needed.

Truss grating to facilitate inspection shall run full length  
(center to center of support frames) ±12" on overhead trusses.  
Cost of truss grating is included in "Overhead Sign Structure".

Structure Number	Station	a	b	c	Ls	Walkway Grating and Handrail Lengths
1S099I080L131.3	625+00	1'-6"	21'-0"	28'-0"	30'-0"	49'-0"

Notes:  
\* Space walkway brackets WF6x5.40 for efficiency and within limits shown:  
  
f = 12" maximum, 4" minimum (End of sign to center of nearest bracket)  
g = 12" maximum, 4" minimum (End of walkway grating to center of nearest support bracket)  
h = 6'-0" maximum (center to center of sign and/or walkway support brackets, WF6x5.40)  
  
Maximum DMS weight = 5000 lbs. 4'-2" maximum cabinet depth includes depth of cabinet plus connection to WF6x5.40.  
For Section B-B and Grating Splice Details, see Base Sheet OS-A-10-DMS.  
For Handrail Splice Details, see Base Sheet OS-A-11-DMS.

OS-A-9-DMS

2-17-2017



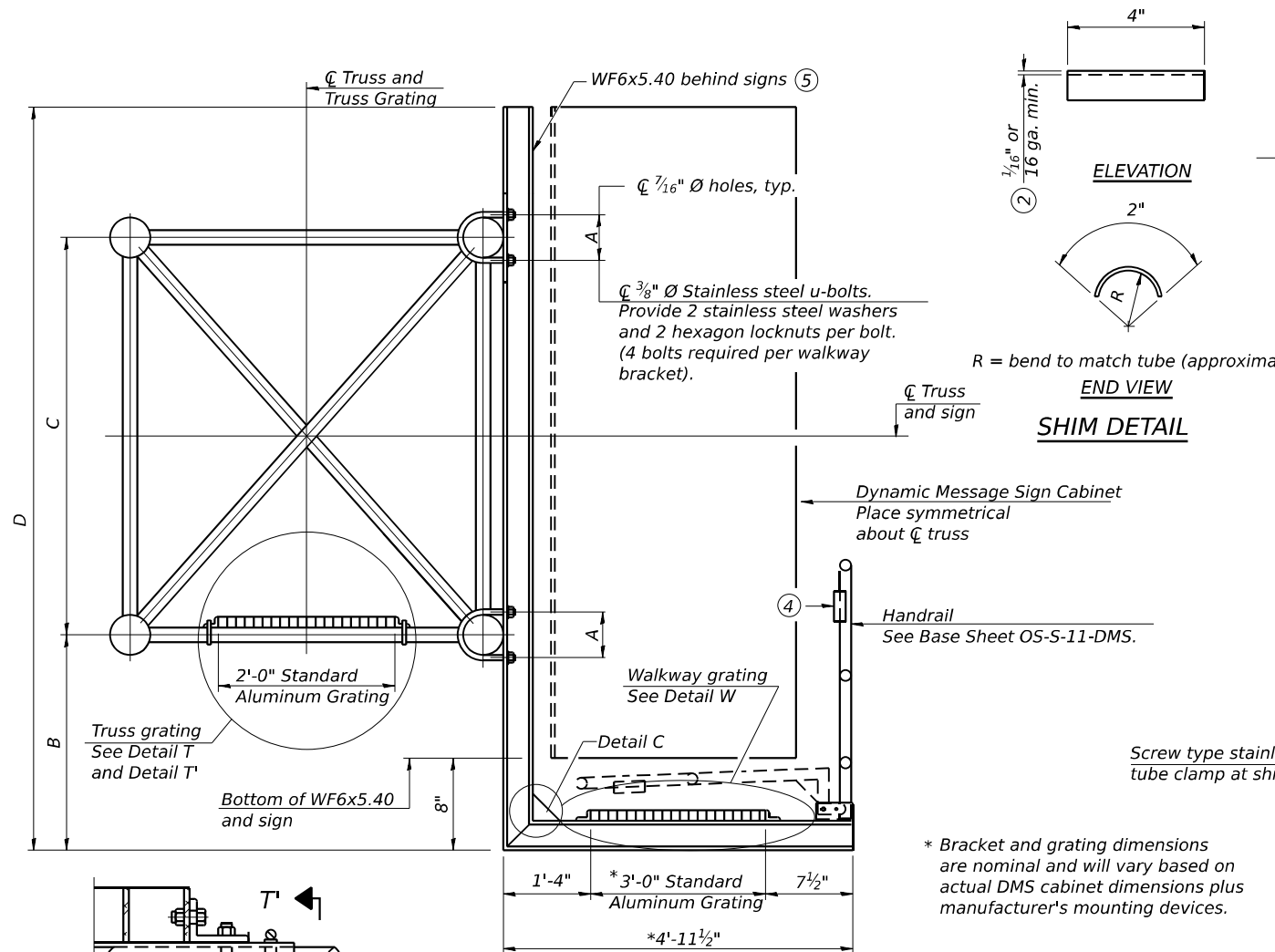
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	DRAWN - CS	REVISED -
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DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES ALTERNATE ALUMINUM WALKWAY DETAILS FOR DMS			
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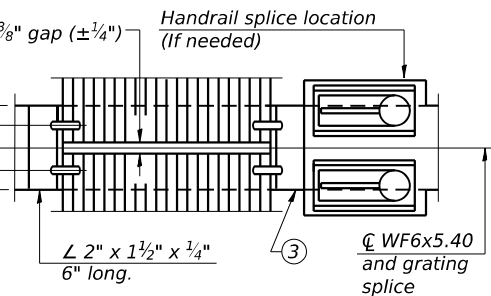
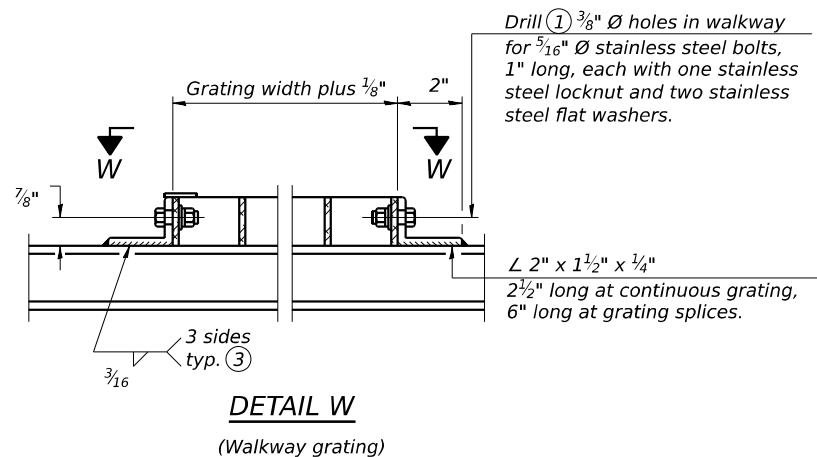
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I-80	FAI 80 22 BR	WILL	1201	599
CONTRACT NO. 62R89				
ILLINOIS FED. AID PROJECT				

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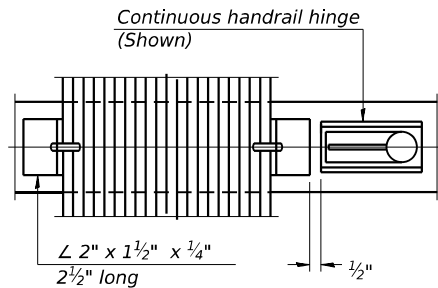


**DETAIL T'**

(Truss grating splice)  
Details not shown same as Detail T.  
Alternate materials may be used subject to the Engineer's review and approval.

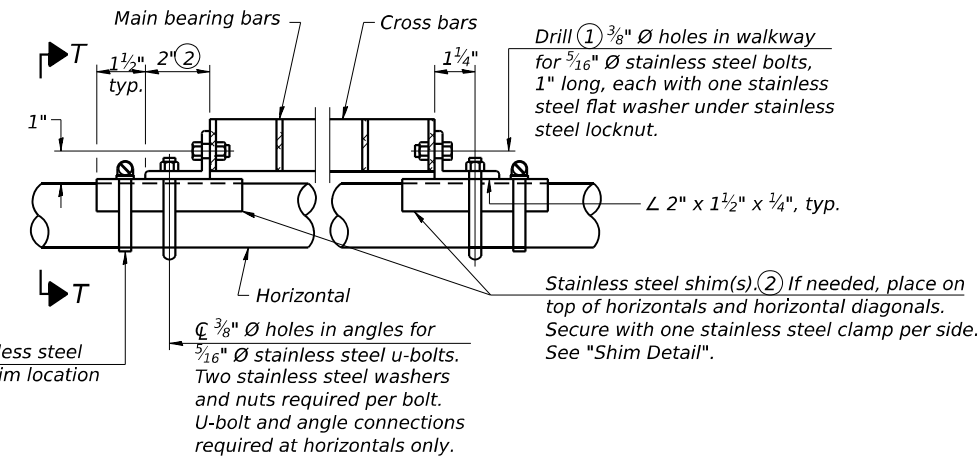
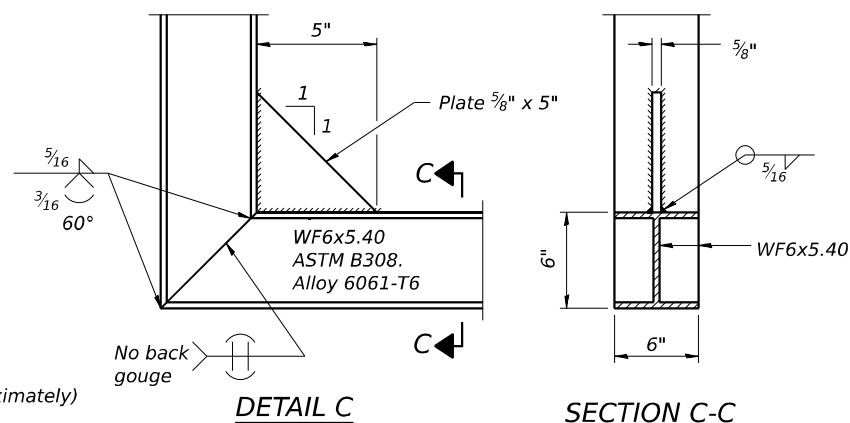


(AT WALKWAY GRATING SPLICE)



(CONTINUOUS WALKWAY GRATING)

**SECTION W-W**



**DETAIL T**

(Continuous Truss grating)

**SPECIFICATIONS FOR STANDARD ALUMINUM GRATING**

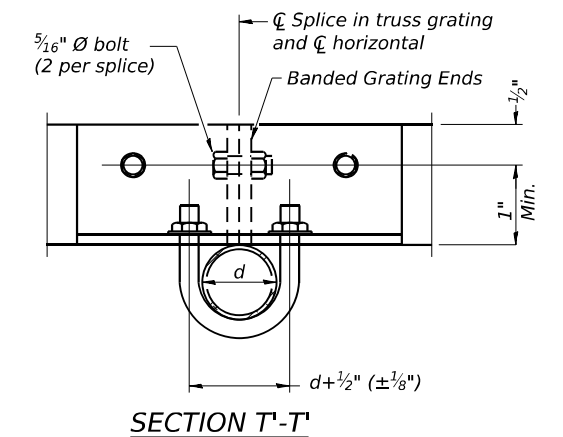
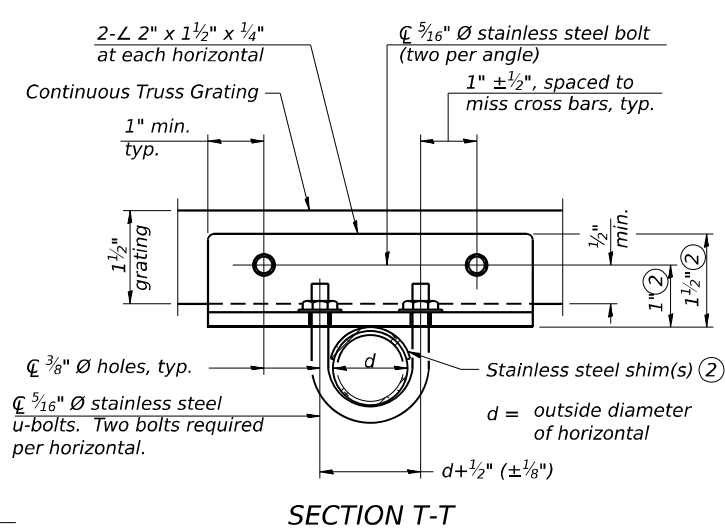
Main Bearing Bars shall be  $\frac{3}{16}$ " x 1 $\frac{1}{2}$ " on 1 $\frac{3}{16}$ " centers and conform to ASTM B211 Alloy 6061-T6.  
Cross bars shall be  $\frac{3}{16}$ " x 1 $\frac{1}{2}$ " on 4" centers and conform to ASTM B221 Alloy 6063-T5 or 6061-T6.

**OR**

Aluminum Grating with modified "t" sections for main bearing bars shall meet the following requirements:

Main bars shall conform to ASTM B221 Alloy 6061-T6 and have a minimum section modulus equal to 0.0705 in.<sup>3</sup> per bar, a depth of 1 $\frac{1}{2}$ ", spaced on 1 $\frac{3}{16}$ " centers.  
Cross bars shall conform to ASTM B221 Alloy 6063-T5 or T-42 and spaced on 4" centers.

Structure Number	Station	A	⑥ B	C	⑥ D
1S099I080L131.3	625+00	7 $\frac{1}{2}$ "	1'-2"	7'-0"	8'-8"



- ① Drilling holes in grating may be done in shop or field, based on Contractor's preference and subject to accurate alignment.
- ② Stainless steel shims shall be placed as shown in Detail T if needed to compensate for alignment variations between horizontal and diagonal pipes beyond adjustment provided by angles. Thicker shims may be used subject to shims performing properly.
- ③ If Handrail Joint present, weld angle to WF(A-N)4 and  $\frac{1}{4}$ " extension bars. (See Base Sheet OS-A-11-DMS.)
- ④  $\frac{1}{8}$ " x  $\frac{1}{2}$ " x 2" welded to handrail posts to protect locations that contact grating.
- ⑤ Cabinet manufacturer must design and supply hardware for connection of cabinet to WF6's. Bolts must be stainless steel or hot dip galvanized high strength per IDOT specifications.
- ⑥ Based on actual height of tallest sign given on OS-A-1.

OS-A-10-DMS 2-17-2017



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DEPARTMENT OF TRANSPORTATION**

**OVERHEAD SIGN STRUCTURES  
ALTERNATE ALUMINUM WALKWAY DETAILS FOR DMS**

SCALE: SHEET 8 OF 12 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 22 BR	WILL	1201	600
CONTRACT NO. 62R89				
ILLINOIS FED. AID PROJECT				