

TRAFFIC SIGNAL GENERAL NOTES:

- 1. THE CONTRACTOR SHALL CONTACT DISTRICT 2 TRAFFIC SIGNAL SECTION A MINIMUM OF 72 HOURS PRIOR TO BEGINNING WORK.
- 2. THE TRAFFIC SIGNAL SECTION AT THE ILLINOIS DEPARTMENT OF TRANSPORTATION, DISTRICT 2, SHALL BE NOTIFIED AT 815-284-5468 AT LEAST 72 HOURS PRIOR TO TURNING ON ANY FLASHER OR CONTROLLER UNITS.
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY DURING CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.39 OF THE STANDARD SPECIFICATIONS. A MINIMUM OF 48 HOURS ADVANCE NOTICE IS REQUIRED FOR NON-EMERGENCY WORK. THE JULIE NUMBER IS 800-892-0123.
- 4. ALL TRAFFIC CONTROL AND OTHER ADVISORY SIGNS NEEDED FOR CONSTRUCTION ARE TO BE FURNISHED BY THE CONTRACTOR IN ACCORDANCE WITH SECTION 701 OF THE STANDARD SPECIFICATIONS.
- 5. ALL TRAFFIC SIGNAL HEADS SHALL BE 12-INCH POLYCARBONATE.
- 6. TRAFFIC SIGNAL HEADS SHALL BE PROPERLY COVERED PRIOR TO INTERSECTION TURN-ON OR AS DIRECTED BY THE ENGINEER. THIS COST SHALL BE INCLUDED WITH THE COST OF THE ASSOCIATED TRAFFIC SIGNAL PAY ITEMS.
- 7. A 1/4" DIAMETER CONTINUOUS RODENT RESISTANT NYLON ROPE SHALL BE FURNISHED AND LEFT IN PLACE IN ALL CONDUITS BETWEEN HANDHOLES AND FOUNDATIONS OR CONTROLLER. THIS COST SHALL BE INCLUDED IN THE COST OF CONDUIT PAY ITEM.
- 8. THE CONTRACTOR SHALL ARRANGE FOR A FACTORY OR SUPPLIER REPRESENTATIVE TO BE PRESENT AT THE INTERSECTION WHEN THE SIGNAL IS TURNED ON. COST TO BE INCLUDED IN THE TRAFFIC SIGNAL CONTROLLER PAY ITEM.
- 9. ALL CONDUIT IN TRENCH SHALL BE PVC. ALL CONDUIT PUSHED MAY BE PVC OR GALVANIZED STEEL. CONDUIT ATTACHED TO STRUCTURES SHALL BE GALVANIZED STEEL.
- 10. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR PLACING CONDUIT AT A GREATER THAN 2' MINIMUM DEPTH TO AVOID OBSTACLES SUCH AS UNDERGROUND UTILITIES.
- 11. THE ELECTRICAL CONDUCTORS FOR ALL TRAFFIC SIGNAL HEADS SHALL BE SOLID, SOFT COPPER.
- 12. ALL THREADS OF BOLTS USED IN THE ASSEMBLY OF TRAFFIC SIGNAL COMPONENTS SHALL BE COATED WITH A NON-LEAD BASED ANTI-SEIZE COMPOUND, SIMILAR TO LEAD PLATE, PRIOR TO ASSEMBLY.
- 13. ALL HARDWARE SHALL BE TIGHTENED AND WELL SECURED. CABLES SHALL BE NEATLY WOUND IN HANDHOLES. CABLES SHALL BE NEATLY TRAINED IN THE CONTROLLER CABINET.
- 14. ALL TRAFFIC SIGNAL WIRING SHALL EXTEND FROM CONTROLLER TO SIGNAL. SPLICES IN JUNCTION BOXES WILL NOT BE ALLOWED.
- 15. THE CONTROLLER CABINET SHALL BE PLACED SO THAT A TECHNICIAN MAY SEE THE INTERSECTION OVER THE TOP OF THE CABINET WHILE WATCHING THE COMPONENTS IN THE CABINET.
- 16. THE PROPOSED TRAFFIC SIGNAL CONTROLLER CABINET SHALL BE FURNISHED WITH A MANUAL CONTROL SWITCH AND MANUAL CONTROL CHORD WITHIN THE POLICE DOOR COMPARTMENT. THIS WORK SHALL BE INCLUDED IN THE CONTROLLER CABINET PAY ITEM.
- 17. THE CONTRACTOR SHALL PROVIDE A SELF-ADHERED PHASE DIAGRAM ON THE INSIDE OF THE CONTROLLER CABINET DOOR.
- 18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ELECTRICAL SERVICE FOR THE TRAFFIC SIGNALS. THE CONTRACTOR SHALL CONTACT THE UTILITY COMPANY PRIOR TO BEGINNING WORK TO OBTAIN THE UTILITY COMPANY REQUIREMENTS FOR THE SERVICE INSTALLATION.
- 19. THE ELEVATION OF THE TOP OF THE DOUBLE HANDHOLE SHALL BE LESS THAN THE ELEVATION OF THE TOP OF THE CONTROLLER FOUNDATION.
- 20. ALL UNINTERRUPTIBLE POWER SUPPLIES SHALL BE EQUIPPED WITH ALPHA GUARD MONITORS.
- 21. ALL GROUNDING MATERIALS FOR CONCRETE FOUNDATIONS SHALL REFER TO SECTION 806 OF THE STANDARD SPECIFICATIONS.
- 22. ALL AREAS DISTURBED BY THE CONTRACTOR SHALL BE RESTORED WITH SEED OR SOD TO THE SATISFACTION OF THE ENGINEER. SEEDING OR SODDING SHALL NOT BE PERMITTED AT ANY TIME WHEN THE GROUND IS FROZEN, WET OR IN AN UNTILLABLE CONDITION.
- 23. THE SURGE PROTECTOR IN THE CONTROLLER CABINET SHALL HAVE AN INDICATOR LIGHT.
- 24. ALL MAST ARM MOUNTED SIGNAL HEADS ON AN INDIVIDUAL MAST ARM SHALL BE MOUNTED SO THAT THE RED INDICATIONS ARE LEVEL WITH EACH OTHER.
- 25. BACKPLATES SHALL BE RETROREFLECTIVE BACKPLATES.
- 26. ALL SIGNAL HEADS SHALL HAVE POLYCARBONATE BLACK HOUSING AND BLACK BACKPLATES.
- 27. ALL PROPOSED HANDHOLES AND HEAVY-DUTY HANDHOLES SHALL BE CAST-IN-PLACE. PRE-CAST OR COMPOSITE HANDHOLES ARE NOT ALLOWED.
- 28. TRAFFIC SIGNAL SYSTEM HANDHOLE LIDS SHALL BE MARKED "TRAFFIC SIGNALS".

TEMPORARY TRAFFIC SIGNAL GENERAL NOTES:

- 1. ALL SIGNAL HEADS ON AN INDIVIDUAL SPAN WIRE SHALL BE MOUNTED SO THAT THE "RED" INDICATIONS ARE LEVEL WITH EACH OTHER.
- 2. THE CONTRACTOR SHALL PROVIDE 3 FEET OF SLACK CABLE IN THE CONTROLLER AND ON THE WOOD POLES. THE SLACK IS IN ADDITION TO THE VERTICAL LENGTH OF CABLE DEFINED IN THE STANDARD SPECIFICATIONS AND SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR ELECTRICAL CABLE OF THE TYPE SPECIFIED.
- 3. ALL TEMPORARY WOOD POLES SHALL BE INSTALLED SO THAT A MINIMUM OF 30' OF POLE IS ABOVE THE EXISTING PAVEMENT ELEVATION ADJACENT TO THE POLE. A SUFFICIENT LENGTH OF POLE SHALL BE BURIED AND BACK GUYED TO ALLOW THE INSTALLATION TO WITHSTAND A 70 MPH SUSTAINED WIND LOADING.
- 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING THE WOOD POLE LOCATIONS BEFORE ORDERING TO DETERMINE IF LONGER POLES ARE REQUIRED.
- 5. TEMPORARY SIGNAL HEADS SHALL BE RELOCATED AS NECESSARY TO LINE UP WITH STAGE TRAFFIC LANES. THIS WORK WILL BE INCLUDED IN THE COST OF THE TEMPORARY TRAFFIC SIGNAL INSTALLATION.

V:\4789 - 19th St Bike Trail (Moline)\CADD\ Sheets\4789-sht-ts.dwg



CITY OF MOLINE
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
(309) 524-2350
3635 4TH AVENUE, MOLINE, IL 61265



19TH ST. BIKE PATH
19TH ST.
TRAFFIC SIGNAL GENERAL NOTES

7/28/23	1
DATE	REVISION



NORTH

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11"X17" PAPER
0'
SCALE: 1" = 1'

Date 05-22-23
Project #4789
Designer RMB

SHEET
94
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TEMPORARY TRAFFIC SIGNAL LEGEND

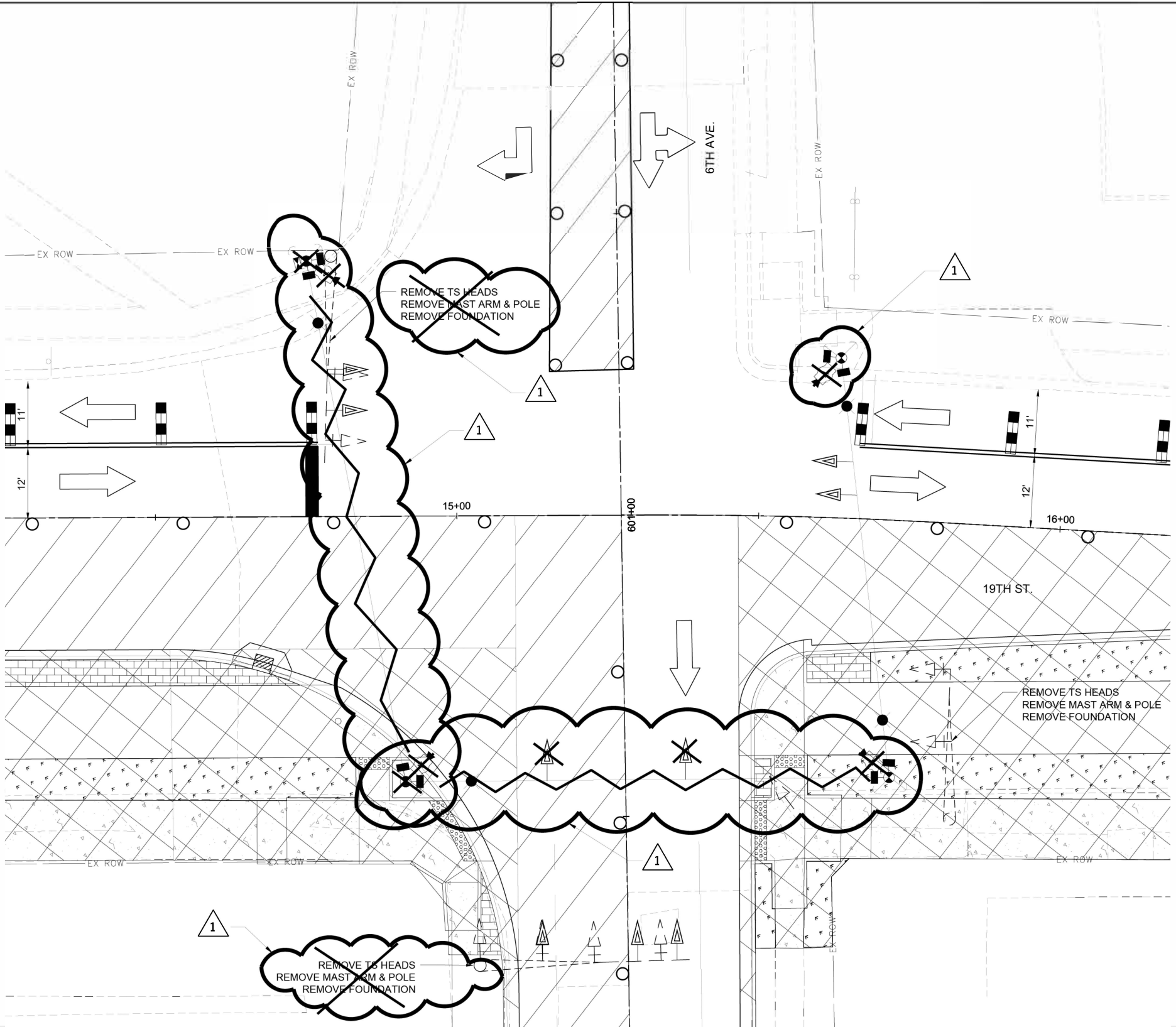
- TEMPORARY TRAFFIC SIGNAL AND LIGHTING CONTROLLER CABINET
- SERVICE INSTALLATION POLE MOUNT
- TEMPORARY WOOD POLE (CLASS 5) 46 FT MINIMUM
- TEMPORARY SPAN WIRE, TETHER WIRE AND CABLE
- TEMPORARY TRAFFIC SIGNAL HEAD WITH BACKPLATE
- VIDEO DETECTION CAMERA
- GUY WIRE
- TEMPORARY LUMINAIRE, SODIUM VAPOR, 400 WATT
- TEMPORARY PEDESTRIAN SIGNAL HEAD

EXISTING TRAFFIC SIGNAL LEGEND

- EXISTING MAST ARM ASSEMBLY AND POLE
- EXISTING SIGNAL HEAD
- EXISTING SIGNAL HEAD WITH BACKPLATE
- EXISTING TRAFFIC SIGNAL AND LIGHTING CONTROLLER CABINET
- EXISTING HANDHOLE
- EXISTING UNDERGROUND CONDUIT
- EXISTING PEDESTAL POST WITH PUSH BUTTON
- EXISTING TRAFFIC SIGNAL POST WITH SIGNAL HEAD AND PUSH BUTTON

NOTES

1. TEMPORARY SIGNALS SHALL BE PAID FOR AS "TEMPORARY TRAFFIC SIGNAL INSTALLATION".
2. CONTRACTOR SHALL USE THE EXISTING MAST ARM POLES FOR TEMPORARY SIGNAL HEAD PLACEMENT IN THE SW AND SE QUADRANTS.
3. CONTRACTOR SHALL PROVIDE ADDITIONAL SIGNAL CABLE AS REQUIRED TO COMPLETE INSTALLATION.
4. CONTRACTOR SHALL ADJUST SIGNAL HEADS PER STAGING AS REQUIRED.
5. CONTRACTOR SHALL COORDINATE PHASING MOVEMENTS WITH THE CITY OF MOLINE.
6. CONTRACTOR SHALL UTILIZE EXISTING CONTROLLER AND SERVICE FOR TEMPORARY SIGNALS.
7. CONTRACTOR SHALL REPROGRAM CONTROLLER FOR TEMPORARY SIGNALS.
8. CONTRACTOR SHALL DISCONNECT AND COVER EXISTING UNUSED SIGNALS AS NECESSARY.



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19TH ST. BIKE PATH
19TH ST. (NORTH SECTION)
STAGE 3B-1 TEMP TRAF SIGNAL PLAN (1 of 7)

7/28/23	1
DATE	REVISION



NORTH

SCALED FOR
11"X17" PAPER

0' 20' 40'
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TEMPORARY TRAFFIC SIGNAL LEGEND

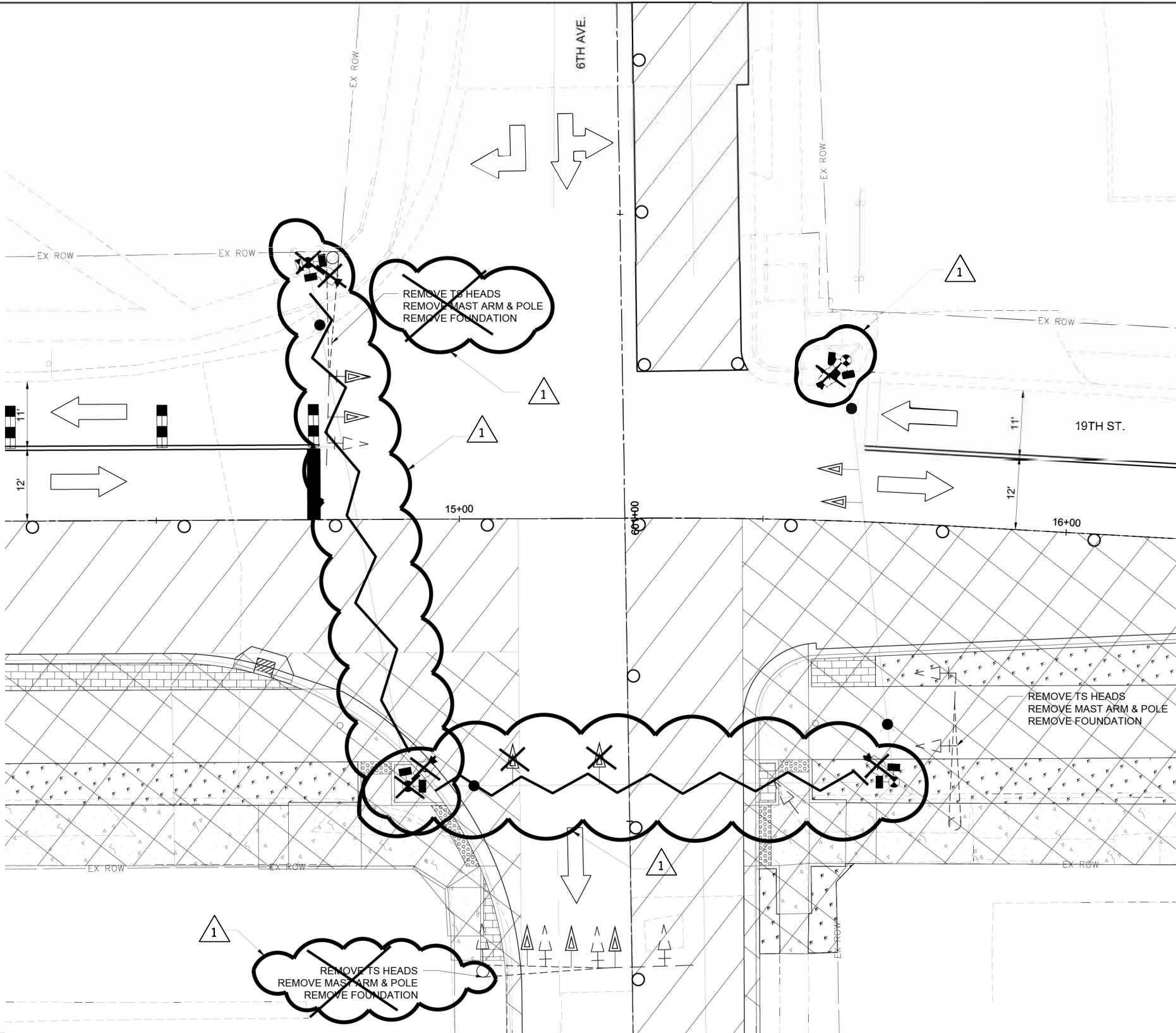
- TEMPORARY TRAFFIC SIGNAL AND LIGHTING CONTROLLER CABINET
- SERVICE INSTALLATION POLE MOUNT
- TEMPORARY WOOD POLE (CLASS 5) 46 FT MINIMUM
- TEMPORARY SPAN WIRE, TETHER WIRE AND CABLE
- TEMPORARY TRAFFIC SIGNAL HEAD WITH BACKPLATE
- VIDEO DETECTION CAMERA
- GUY WIRE
- TEMPORARY LUMINAIRE, SODIUM VAPOR, 400 WATT
- TEMPORARY PEDESTRIAN SIGNAL HEAD

EXISTING TRAFFIC SIGNAL LEGEND

- EXISTING MAST ARM ASSEMBLY AND POLE
- EXISTING SIGNAL HEAD
- EXISTING SIGNAL HEAD WITH BACKPLATE
- EXISTING TRAFFIC SIGNAL AND LIGHTING CONTROLLER CABINET
- EXISTING HANDHOLE
- EXISTING UNDERGROUND CONDUIT
- EXISTING PEDESTAL POST WITH PUSH BUTTON
- EXISTING TRAFFIC SIGNAL POST WITH SIGNAL HEAD AND PUSH BUTTON

NOTES

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19TH ST. BIKE PATH
19TH ST. (NORTH SECTION)
STAGE 3B-2 TEMP TRAF SIGNAL PLAN (2 of 7)

7/28/23	1
DATE	REVISION



NORTH

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11"X17" PAPER

0' 20' 40'
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TEMPORARY TRAFFIC SIGNAL LEGEND

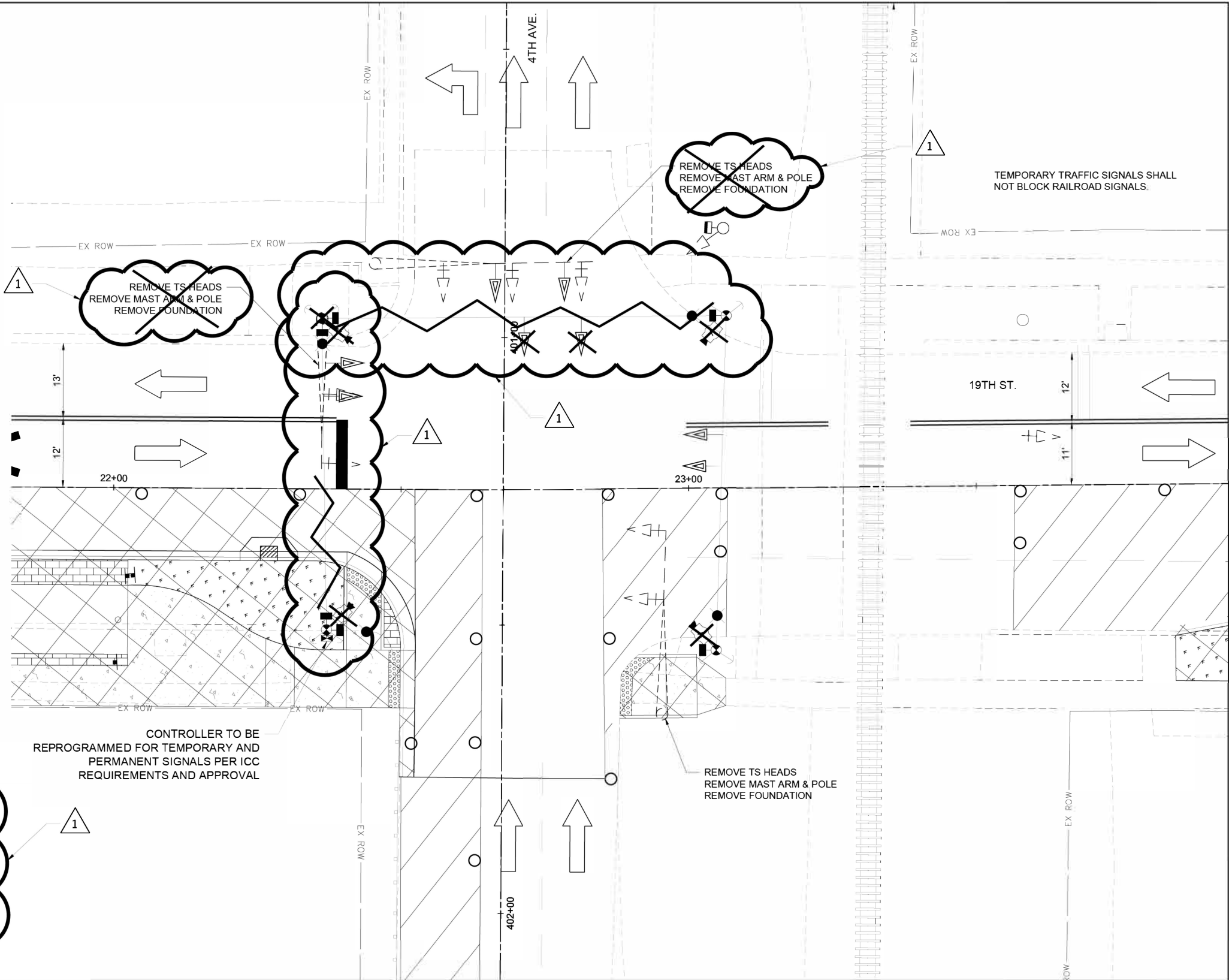
- TEMPORARY TRAFFIC SIGNAL AND LIGHTING CONTROLLER CABINET
- SERVICE INSTALLATION POLE MOUNT
- TEMPORARY WOOD POLE (CLASS 5) 46 FT MINIMUM
- TEMPORARY SPAN WIRE, TETHER WIRE AND CABLE
- TEMPORARY TRAFFIC SIGNAL HEAD WITH BACKPLATE
- VIDEO DETECTION CAMERA
- GUY WIRE
- TEMPORARY LUMINAIRE, SODIUM VAPOR, 400 WATT
- TEMPORARY PEDESTRIAN SIGNAL HEAD

EXISTING TRAFFIC SIGNAL LEGEND

- EXISTING MAST ARM ASSEMBLY AND POLE
- EXISTING SIGNAL HEAD
- EXISTING SIGNAL HEAD WITH BACKPLATE
- EXISTING TRAFFIC SIGNAL AND LIGHTING CONTROLLER CABINET
- EXISTING HANDHOLE
- EXISTING UNDERGROUND CONDUIT
- EXISTING PEDESTAL POST WITH PUSH BUTTON
- EXISTING TRAFFIC SIGNAL POST WITH SIGNAL HEAD AND PUSH BUTTON

NOTES

- TEMPORARY SIGNALS SHALL BE PAID FOR AS "TEMPORARY TRAFFIC SIGNAL INSTALLATION".
- CONTRACTOR SHALL USE THE EXISTING MAST ARM POLES FOR TEMPORARY SIGNAL HEAD PLACEMENT IN THE SW QUADRANT.
- CONTRACTOR SHALL PROVIDE ADDITIONAL SIGNAL CABLE AS REQUIRED TO COMPLETE INSTALLATION.
- CONTRACTOR SHALL ADJUST SIGNAL HEADS PER STAGING AS REQUIRED.
- CONTRACTOR SHALL COORDINATE PHASING MOVEMENTS WITH THE CITY OF MOLINE.
- CONTRACTOR SHALL UTILIZE EXISTING CONTROLLER AND SERVICE FOR TEMPORARY SIGNALS.
- CONTRACTOR SHALL REPROGRAM CONTROLLER FOR TEMPORARY SIGNALS.
- CONTRACTOR SHALL DISCONNECT AND COVER EXISTING UNUSED SIGNALS AS NECESSARY.
- CONTRACTOR SHALL COORDINATE WITH CONTROLLER MANUFACTURER REPRESENTATIVE AND ICC REGARDING MODIFICATIONS AND APPROVAL OF TEMPORARY AND PERMANENT SIGNAL CHANGES PRIOR TO ACTIVATING SIGNALS.
- THE RR BLACKOUT SIGN MUST STAY OPERATIONAL DURING TEMPORARY SIGNAL OPERATION.



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19TH ST. BIKE PATH
19TH ST. (NORTH SECTION)
STAGE 3B TEMP TRAF SIGNAL PLAN (3 of 7)

7/28/23	1
DATE	REVISION



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SCALE: 1" = 40'

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Designer **RMB**

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TEMPORARY TRAFFIC SIGNAL LEGEND

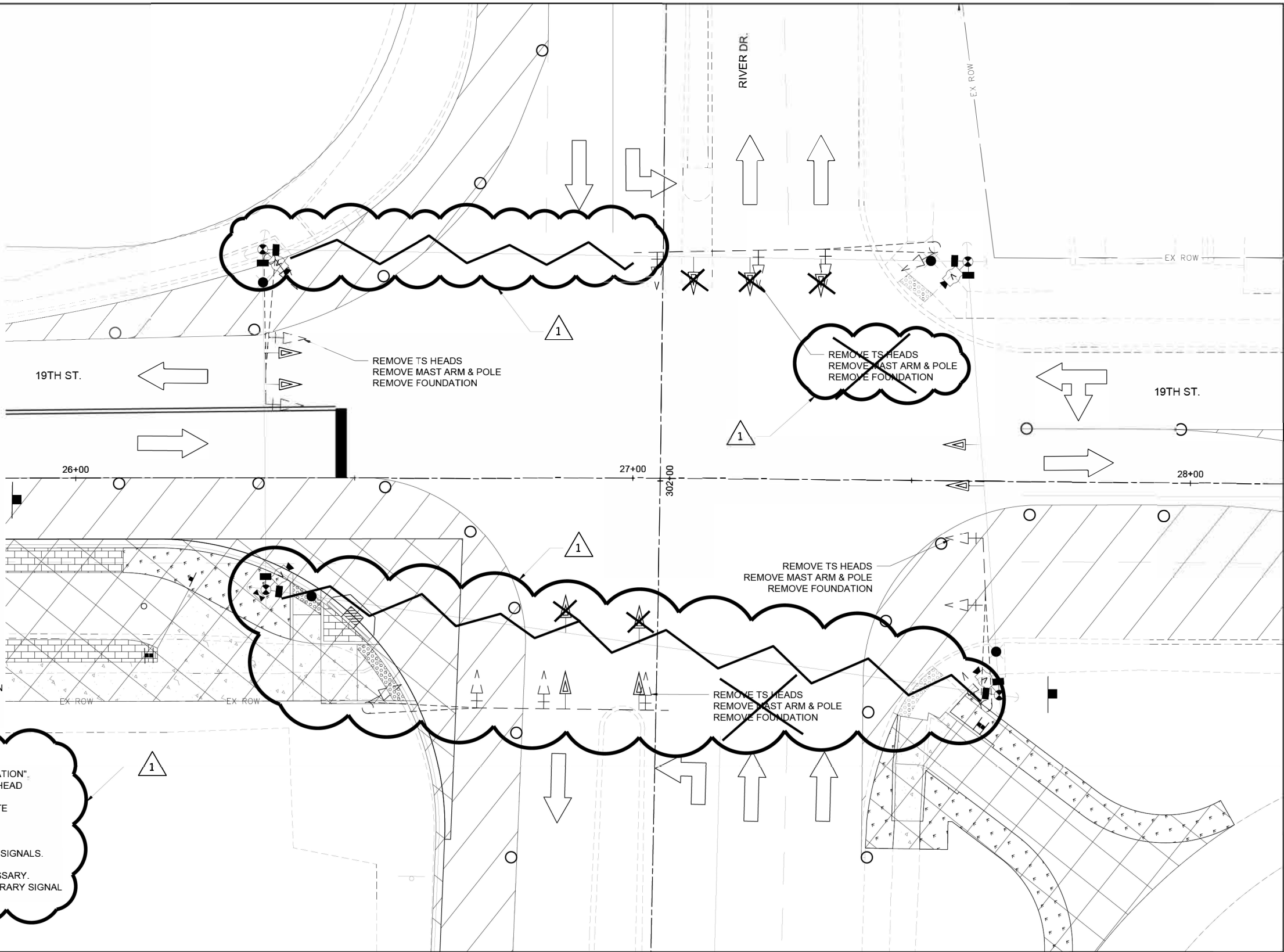
- TEMPORARY TRAFFIC SIGNAL AND LIGHTING CONTROLLER CABINET
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- TEMPORARY WOOD POLE (CLASS 5) 46 FT MINIMUM
- TEMPORARY SPAN WIRE, TETHER WIRE AND CABLE
- TEMPORARY TRAFFIC SIGNAL HEAD WITH BACKPLATE
- VIDEO DETECTION CAMERA
- GUY WIRE
- TEMPORARY LUMINAIRE, SODIUM VAPOR, 400 WATT
- TEMPORARY PEDESTRIAN SIGNAL HEAD

EXISTING TRAFFIC SIGNAL LEGEND

- EXISTING MAST ARM ASSEMBLY AND POLE
- EXISTING SIGNAL HEAD
- EXISTING SIGNAL HEAD WITH BACKPLATE
- EXISTING TRAFFIC SIGNAL AND LIGHTING CONTROLLER CABINET
- EXISTING HANDHOLE
- EXISTING UNDERGROUND CONDUIT
- EXISTING PEDESTAL POST WITH PUSH BUTTON
- EXISTING TRAFFIC SIGNAL POST WITH SIGNAL HEAD AND PUSH BUTTON

NOTES

- TEMPORARY SIGNALS SHALL BE PAID FOR AS "TEMPORARY TRAFFIC SIGNAL INSTALLATION".
- CONTRACTOR SHALL USE THE EXISTING MAST ARM POLES FOR TEMPORARY SIGNAL HEAD PLACEMENT IN THE SW AND NE QUADRANTS.
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- CONTRACTOR SHALL ADJUST SIGNAL HEADS PER STAGING AS REQUIRED.
- CONTRACTOR SHALL COORDINATE PHASING MOVEMENTS WITH THE CITY OF MOLINE.
- CONTRACTOR SHALL UTILIZE EXISTING CONTROLLER AND SERVICE FOR TEMPORARY SIGNALS.
- CONTRACTOR SHALL REPROGRAM CONTROLLER FOR TEMPORARY SIGNALS.
- CONTRACTOR SHALL DISCONNECT AND COVER EXISTING UNUSED SIGNALS AS NECESSARY.
- CONTRACTOR SHALL RELOCATE VIDEO DETECTION SYSTEM FOR USE DURING TEMPORARY SIGNAL INSTALLATION AND PERMANENT SIGNAL INSTALLATION.



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19TH ST. BIKE PATH
19TH ST. (NORTH SECTION)
STAGE 3B TEMP TRAF SIGNAL PLAN (4 of 7)

7/28/23	1
DATE	REVISION



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0' 20' 40'
SCALE: 1" = 40'

Date **05-22-23**
Project **#4789**
Designer **RMB**

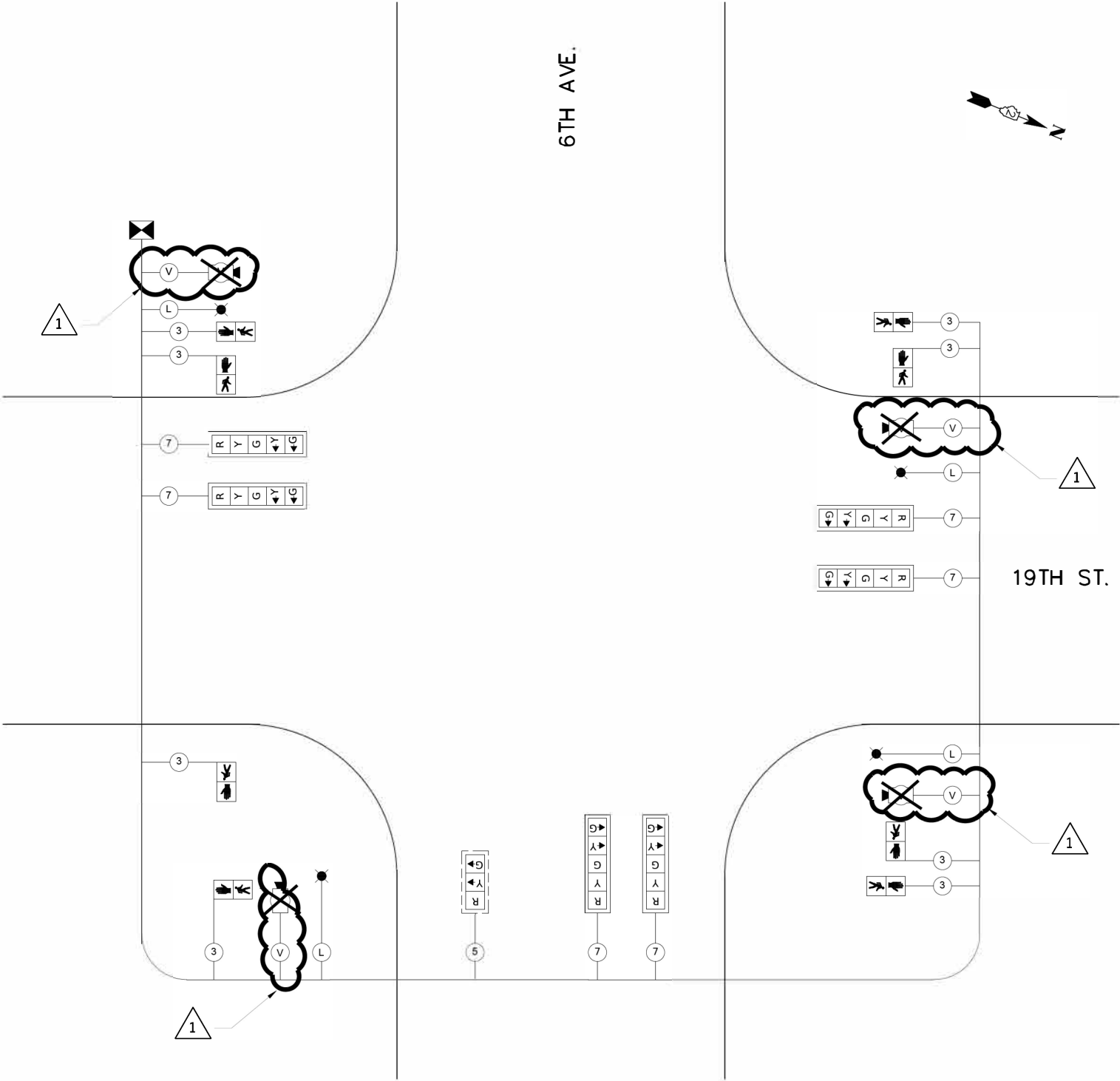
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TEMPORARY TRAFFIC SIGNAL WIRING DIAGRAM LEGEND

SYMBOL	DESCRIPTION
	NO. 14 ELECTRIC CABLE DENOTING NUMBER OF CONDUCTORS, UNLESS NOTED OTHERWISE
	PROPOSED SIGNAL FACE WITH BACKPLATE
	DIRECTIONAL SIGNAL SECTION
	12" TRAFFIC SIGNAL SECTION
	TRAFFIC SIGNAL AND LIGHTING CONTROLLER
	VIDEO DETECTION CAMERA
	COAXIAL CABLE
	ELECTRIC CABLE IN CONDUIT, 2 1/C NO. 10, 1/C NO. 10 GROUND
	LED LUMINAIRE
	PEDESTRIAN SIGNAL HEAD

NOTES

1. THE CONTRACTOR SHALL CONTACT SCOTT KULLERSTRAND AT (815) 284-5468, AT THE ILLINOIS DEPARTMENT OF TRANSPORTATION TWO WEEKS PRIOR TO THE SIGNAL TURN-ON.
2. THE CITY OF MOLINE WILL LEAD PROGRAMMING AND PHASING OF ALL TEMPORARY TRAFFIC SIGNALS.
3. THE MOUNTING LOCATION OF THE VIDEO DETECTOR WILL BE DETERMINED PER THE MANUFACTURER'S RECOMMENDATIONS.
4. NEW SERVICE CONNECTION TO EXISTING POLE TO BE COORDINATED WITH MID AMERICAN ENERGY.



CABLE PLAN



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19TH ST. BIKE PATH
19TH ST. & 6TH AVE. (NORTH SECTION)
TEMP TRAFFIC SIGNAL CABLE PLAN (5 OF 7)

7/28/23	
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Date	05-22-23
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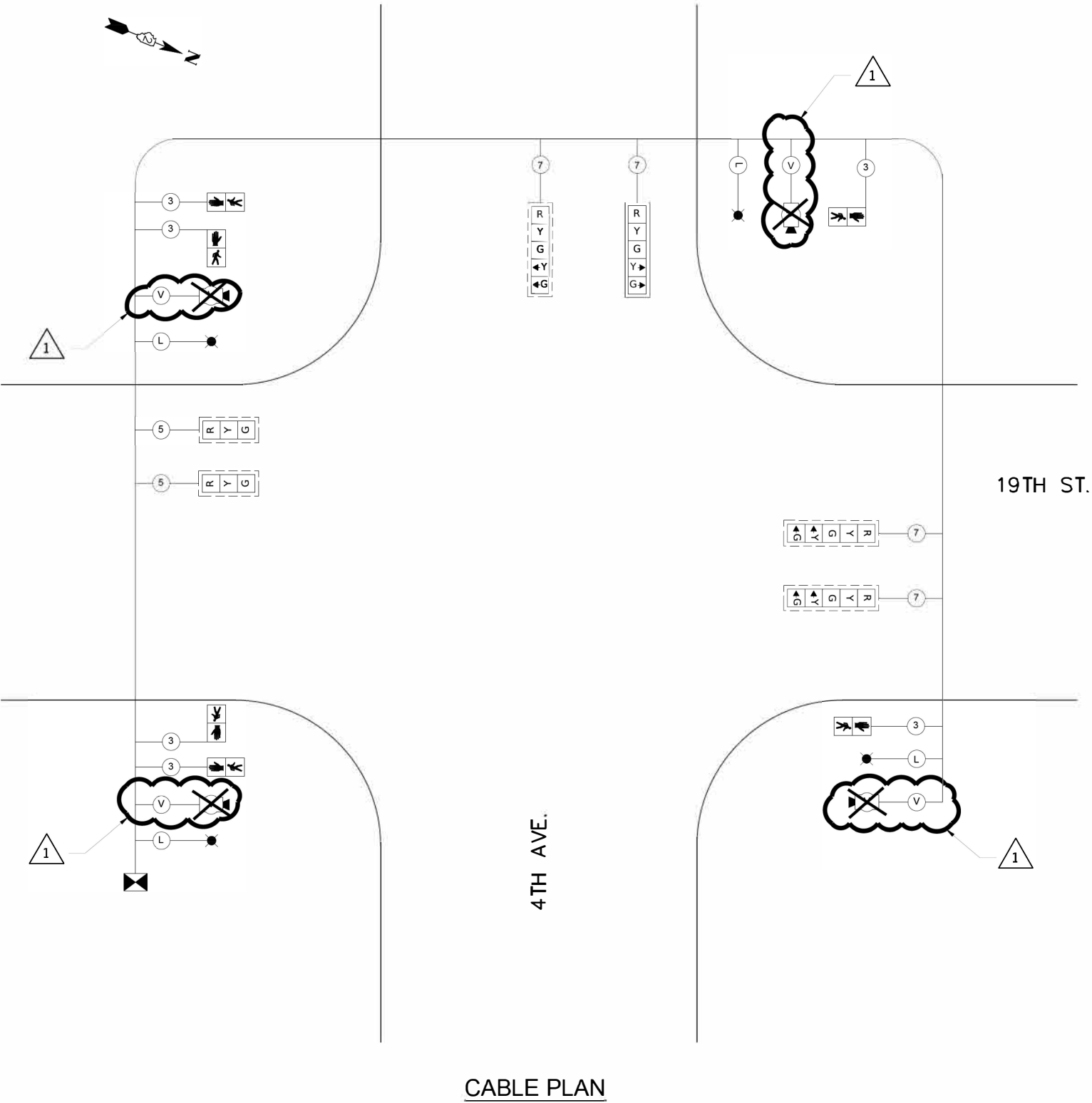
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TEMPORARY TRAFFIC SIGNAL WIRING DIAGRAM LEGEND

SYMBOL	DESCRIPTION
	NO. 14 ELECTRIC CABLE DENOTING NUMBER OF CONDUCTORS, UNLESS NOTED OTHERWISE
	PROPOSED SIGNAL FACE WITH BACKPLATE
	DIRECTIONAL SIGNAL SECTION
	12" TRAFFIC SIGNAL SECTION
	TRAFFIC SIGNAL AND LIGHTING CONTROLLER
	VIDEO DETECTION CAMERA
	COAXIAL CABLE
	ELECTRIC CABLE IN CONDUIT, 2 1/C NO. 10, 1/C NO. 10 GROUND
	LED LUMINAIRE
	PEDESTRIAN SIGNAL HEAD

NOTES

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2. THE CITY OF MOLINE WILL LEAD PROGRAMMING AND PHASING OF ALL TEMPORARY TRAFFIC SIGNALS.
3. THE MOUNTING LOCATION OF THE VIDEO DETECTOR WILL BE DETERMINED PER THE MANUFACTURER'S RECOMMENDATIONS.
4. NEW SERVICE CONNECTION TO EXISTING POLE TO BE COORDINATED WITH MID AMERICAN ENERGY.



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19TH ST. BIKE PATH
19TH ST. & 4TH AVE. (NORTH SECTION)
TEMP TRAFFIC SIGNAL CABLE PLAN (6 OF 7)

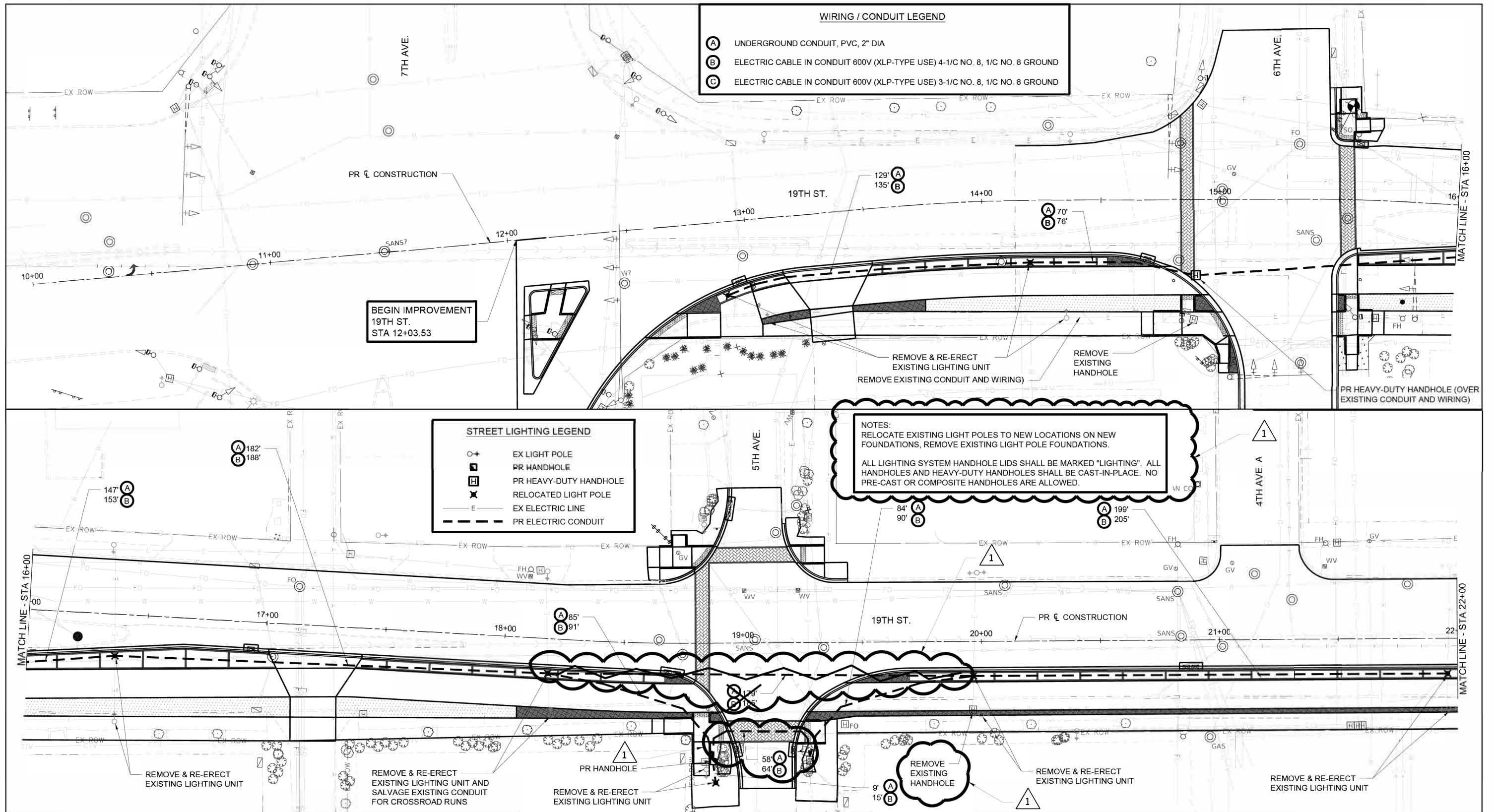
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Date 05-22-23
Project #4789
Designer RMB

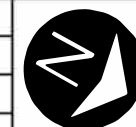
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19TH ST. (NORTH SECTION)
STREET LIGHTING PLAN (1 of 2)

7/28/23	
DATE	REVISION



NORTH

0' 20' 40'

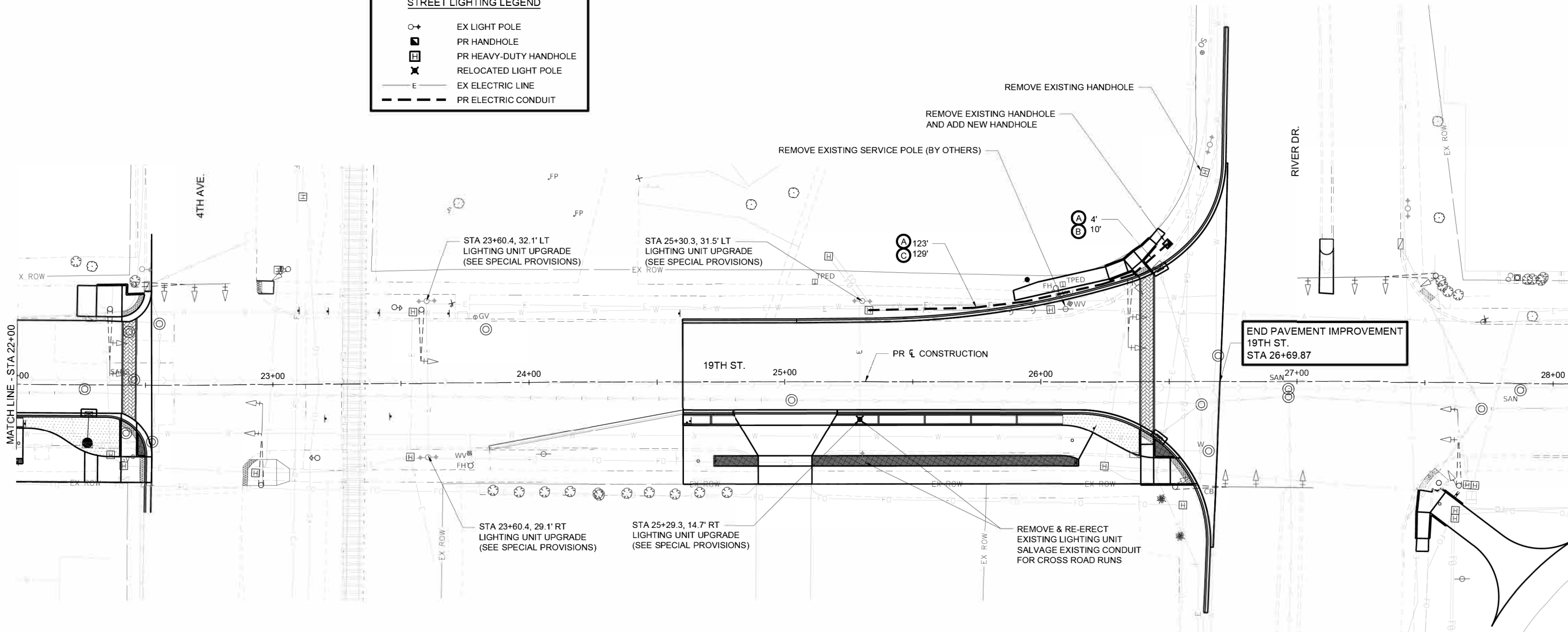
SCALE: 1" = 40'

Designer	RMB
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STREET LIGHTING LEGEND

- + EX LIGHT POLE
- PR HANDHOLE
- PR HEAVY-DUTY HANDHOLE
- ✕ RELOCATED LIGHT POLE
- E — EX ELECTRIC LINE
- PR ELECTRIC CONDUIT



WIRING / CONDUIT LEGEND

- (A) UNDERGROUND CONDUIT, PVC, 2" DIA
- (B) ELECTRIC CABLE IN CONDUIT 600V (XLP-TYPE USE) 4-1/C NO. 8, 1/C NO. 8 GROUND
- (C) ELECTRIC CABLE IN CONDUIT 600V (XLP-TYPE USE) 3-1/C NO. 8, 1/C NO. 8 GROUND

NOTES:
RELOCATE EXISTING LIGHT POLES TO NEW LOCATIONS ON NEW FOUNDATIONS, REMOVE EXISTING LIGHT POLE FOUNDATIONS.

ALL LIGHTING SYSTEM HANDHOLE LIDS SHALL BE MARKED "LIGHTING". ALL HANDHOLES AND HEAVY-DUTY HANDHOLES SHALL BE CAST-IN-PLACE. NO PRE-CAST OR COMPOSITE HANDHOLES ARE ALLOWED.

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19TH ST. BIKE PATH
19TH ST. (NORTH SECTION)
STREET LIGHTING PLAN (2 of 2)

7/28/23	1
DATE	REVISION



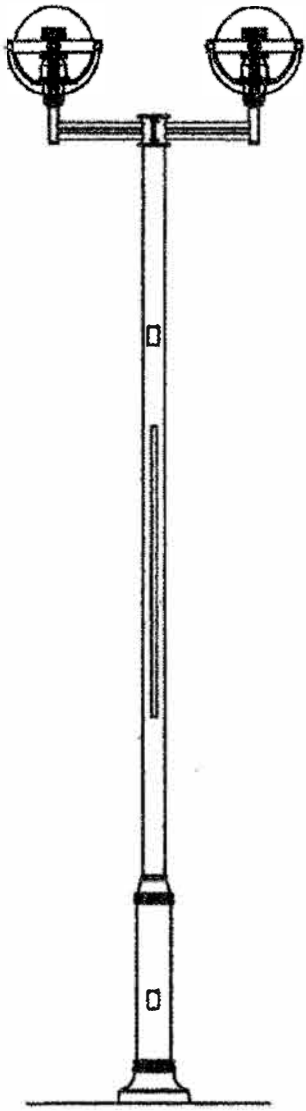
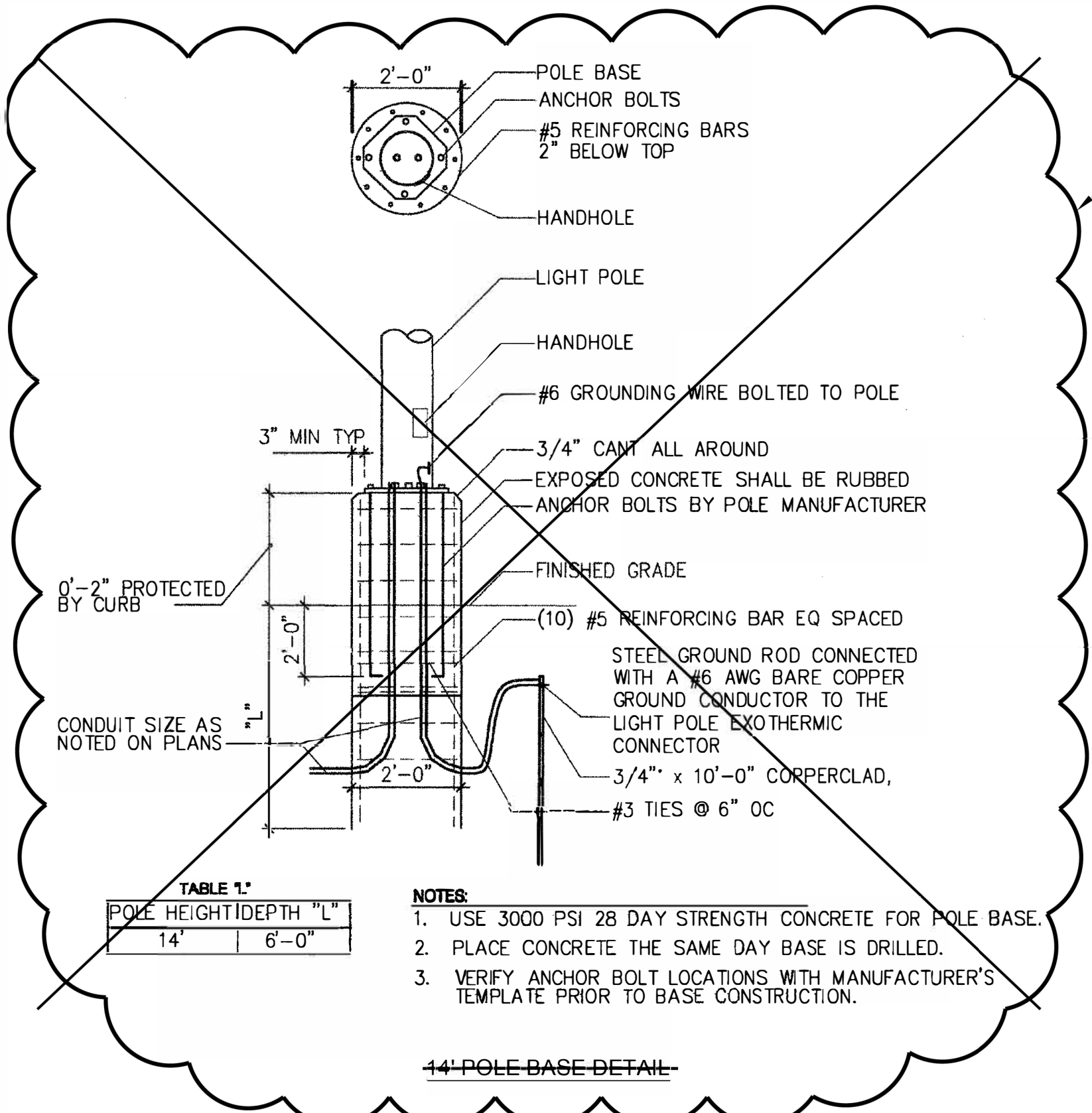
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NOTE: EXISTING LIGHT FIXTURES TO BE REMOVED AND RE-ERECTED.

LIGHT FIXTURE TYPE C (14' POLE)



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19TH ST. BIKE PATH
19TH ST. (NORTH SECTION)
STREET LIGHTING DETAILS

7/28/23	1
DATE	REVISION

SCALED FOR
11"X17" PAPER
0' 0' 0'
SCALE: 0" = 0'

Date **05-22-23**
Project **#4789**
Designer **RMB**

SHEET
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143