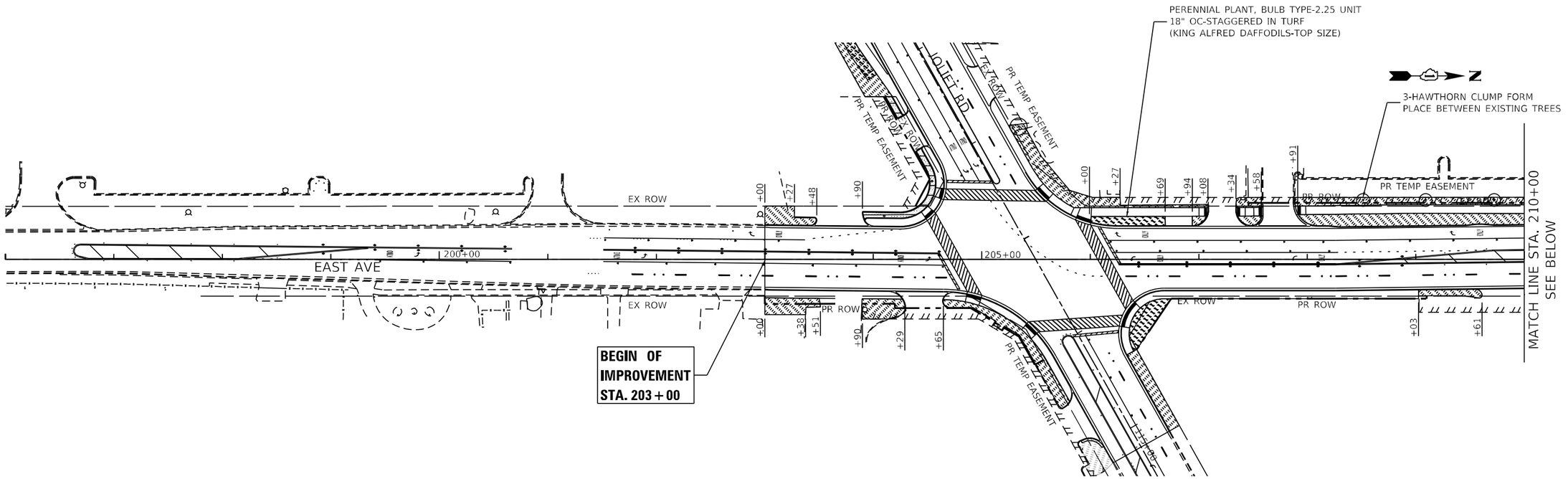

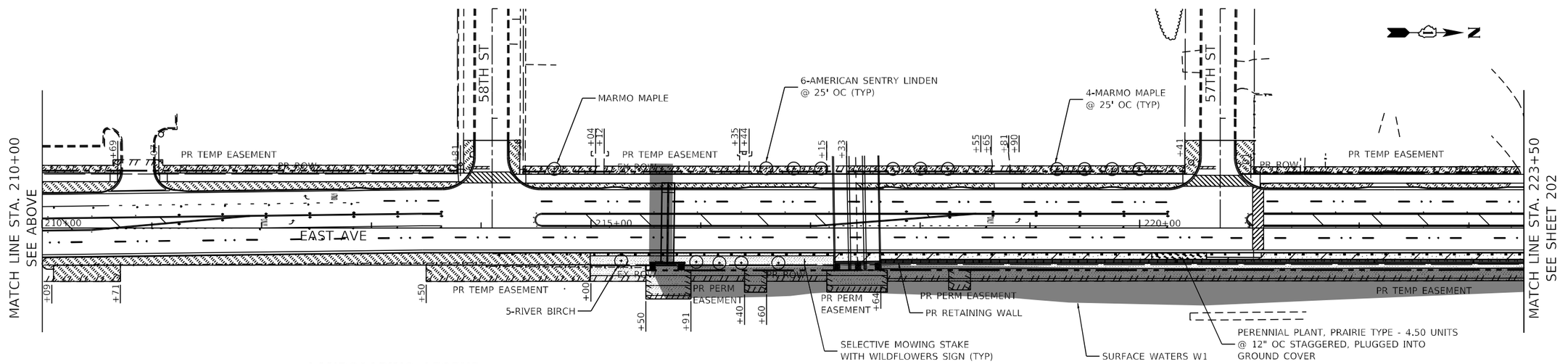

LANDSCAPING LEGEND

- PR SHADE TREE
- SHRUBS
- MOWSTAKE W/SIGN
- PERENNIAL PLANTS
- SODDING, SALT TOLERANT
- SEEDING CLASS 4
- SEEDING CLASS 4 & 5A
- SEEDING CLASS 4 (MODIFIED) WOODLAND
  SEEDING CLASS 5 (SPECIAL) WOODLAND

Accurate GROUP, INC.

USER NAME = jschumann	DESIGNED - LC	REVISED -
	DRAWN - MS	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED - TGM	REVISED -
PLOT DATE = 8/5/2021	DATE - 07/30/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EAST AVE LANSCAPING PLAN – I
EAST AVENUE (55TH ST TO JOLIET RD)

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	426	201
		CONTRACT NO. 62C25		
		ILLINOIS FED. AID PROJECT		

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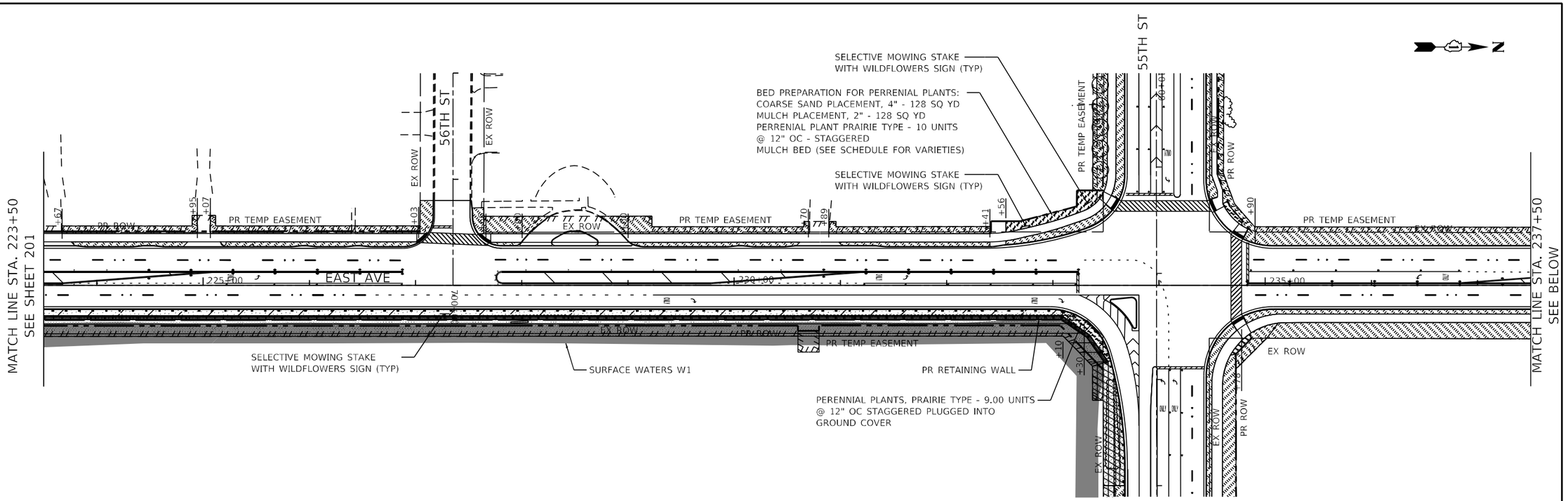

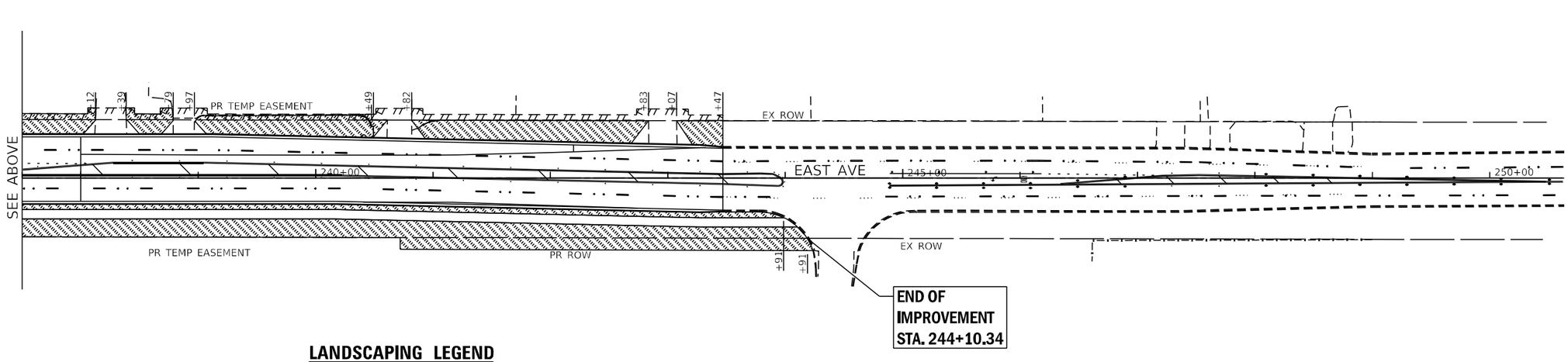

LANDSCAPING LEGEND

- PR SHADE TREE
- SHRUBS
- MOWSTAKE W/SIGN
- PERENNIAL PLANTS
- SODDING, SALT TOLERANT
- SEEDING CLASS 4
- SEEDING CLASS 4 & 5A
- SEEDING CLASS 4 (MODIFIED) WOODLAND
  SEEDING CLASS 5 (SPECIAL) WOODLAND

FILE NAME = D:\Engineering\Live Projects\13831 IDOT East Ave\CADD\CADD Sheets\Civil\D1822C25-sht-Landscaping East II.dgn

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USER NAME = jschumann	DESIGNED - LC	REVISED -
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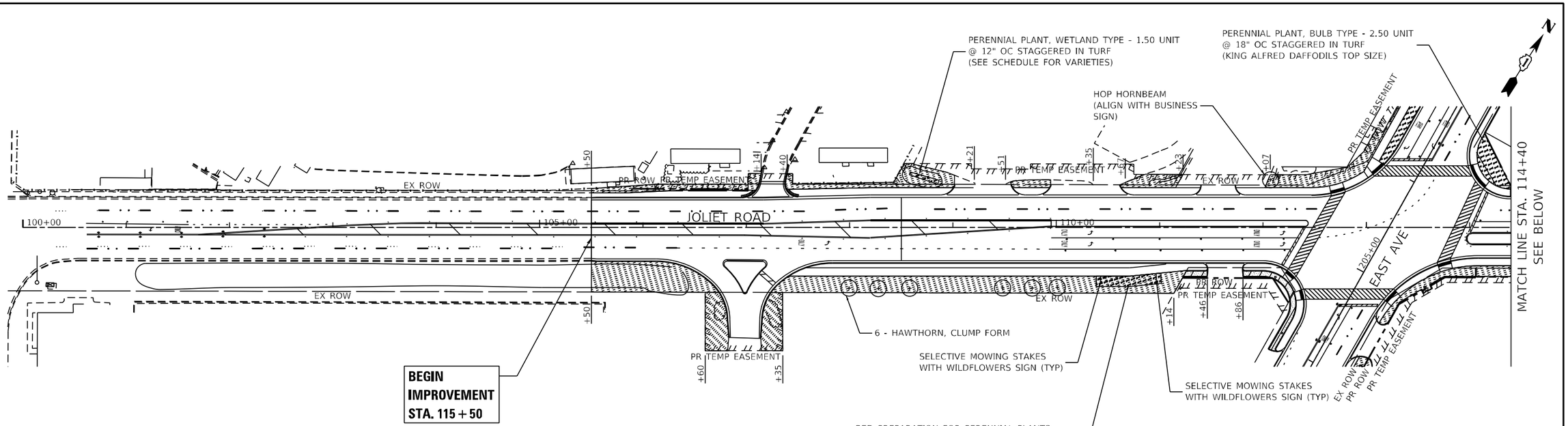
PLOT DATE = 8/5/2021	DATE - 07/30/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EAST AVE LANSCAPING PLAN – II
EAST AVENUE (55TH ST TO JOLIET RD)

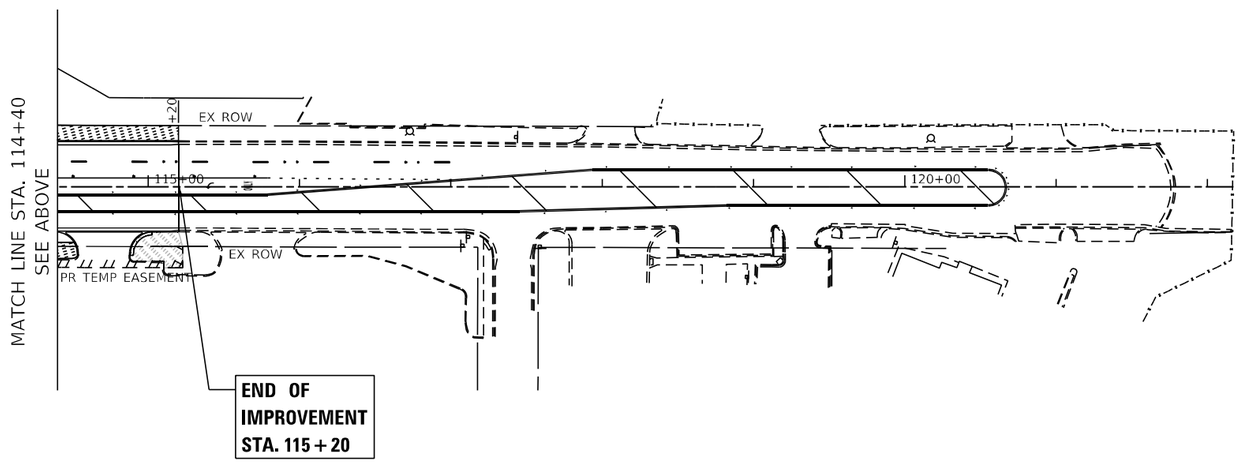
SCALE: 1"=50' | SHEET OF SHEETS | STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	426	202
		CONTRACT NO. 62C25		
	ILLINOIS FED. AID PROJECT			



LANDSCAPING LEGEND

- PR SHADE TREE
- SHRUBS
- MOWSTAKE W/SIGN
- PERENNIAL PLANTS
- SODDING, SALT TOLERANT
- SEEDING CLASS 4
- SEEDING CLASS 4 & 5A
- SEEDING CLASS 4 (MODIFIED) WOODLAND
  SEEDING CLASS 5 (SPECIAL) WOODLAND



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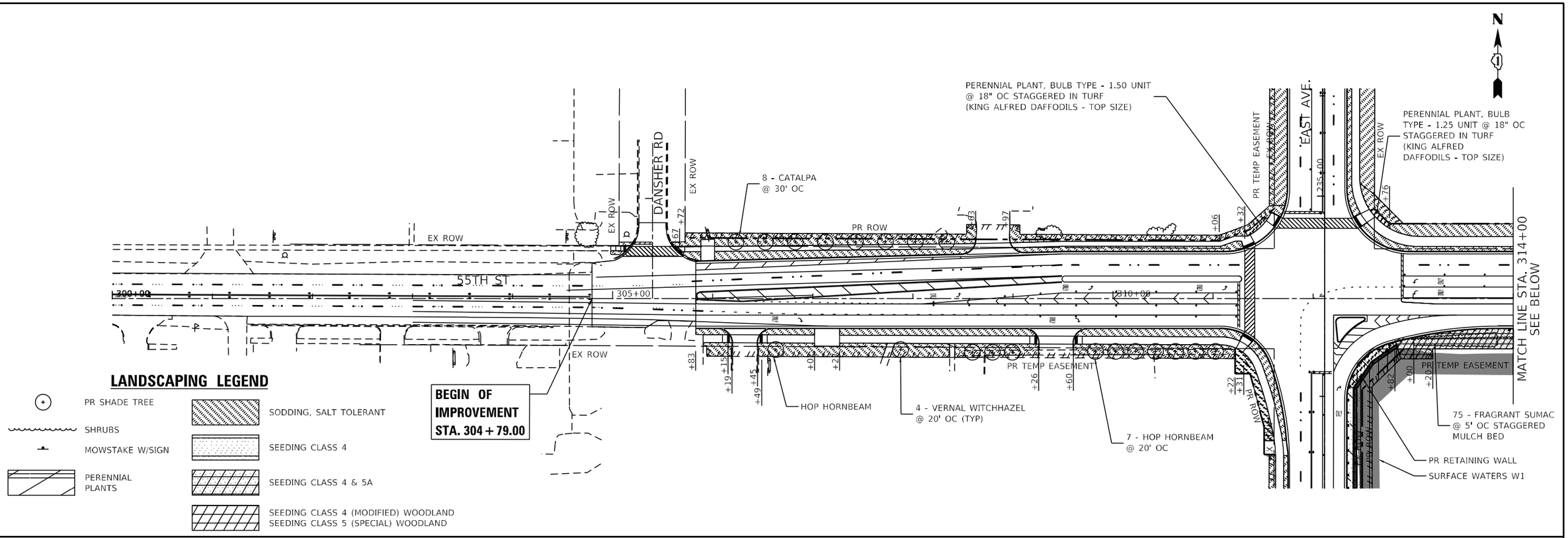
PLOT SCALE = 100.0000 ' / in.	CHECKED - TGM	REVISED -
PLOT DATE = 8/5/2021	DATE - 07/30/2021	REVISED -

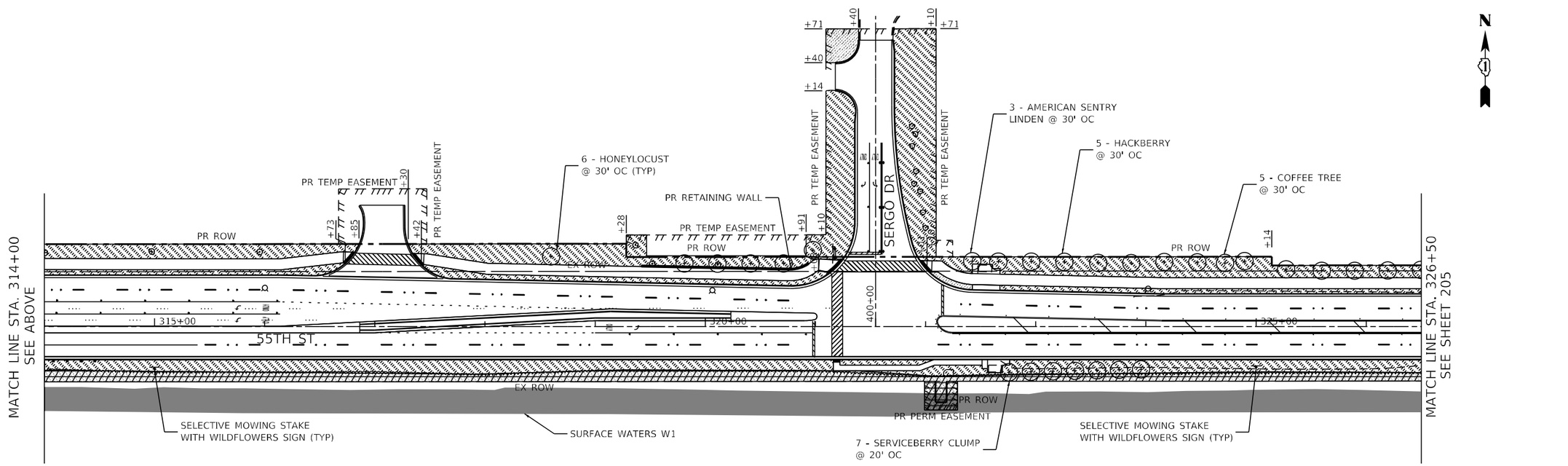
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

JOLIET RD LANSCAPING PLAN
EAST AVENUE (55TH ST TO JOLIET RD)

SCALE: 1"=50' | SHEET 3 OF 5 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	426	203
		CONTRACT NO. 62C25		
		ILLINOIS FED. AID PROJECT		





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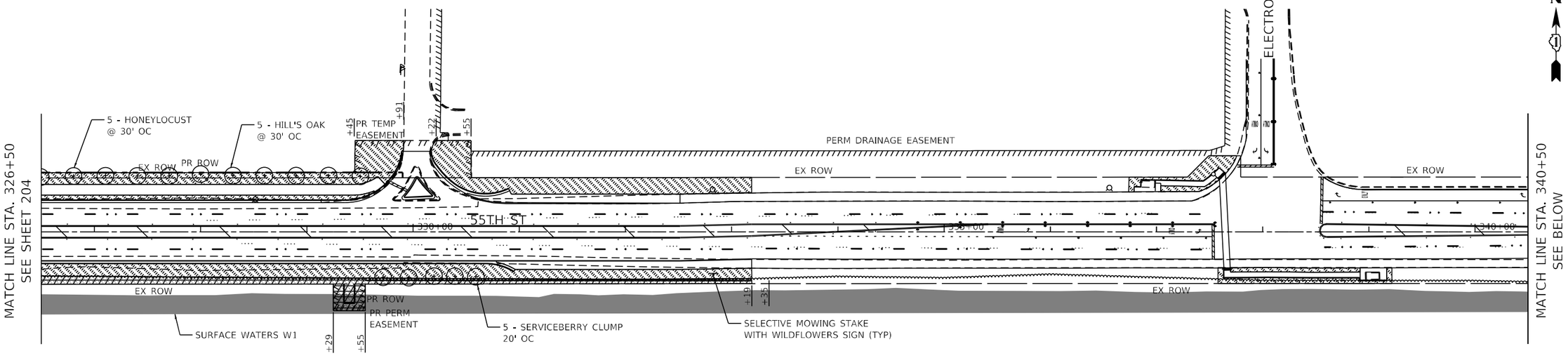
	DRAWN - MS	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED - TGM	REVISED -
PLOT DATE = 8/5/2021	DATE - 07/30/2021	REVISED -

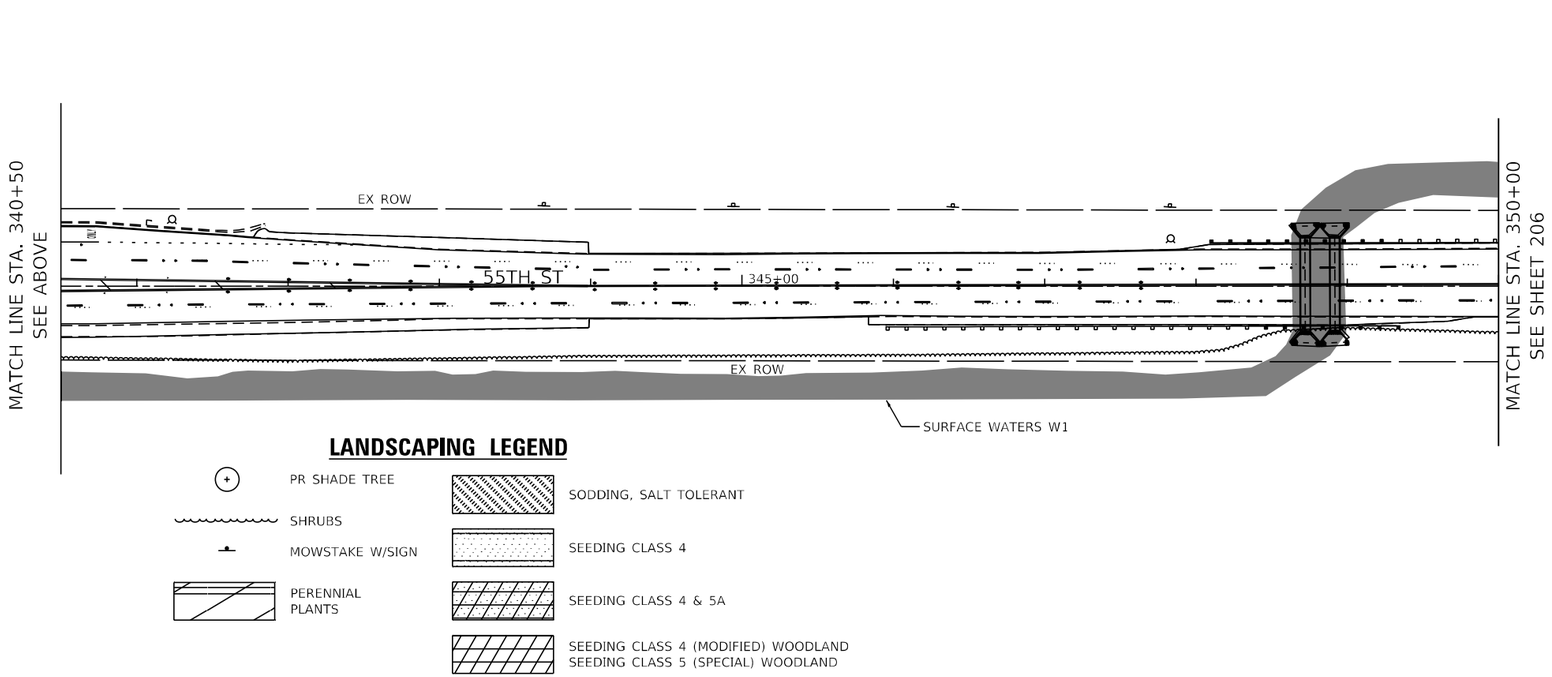
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

55TH ST LANDSCAPING PLAN – I
EAST AVENUE (55TH ST TO JOLIET RD)

SCALE: 1"=50' | SHEET 4 OF 5 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	426	204
		CONTRACT NO. 62C25		
	ILLINOIS FED. AID PROJECT			





LANDSCAPING LEGEND

- PR SHADE TREE
- SHRUBS
- MOWSTAKE W/SIGN
- PERENNIAL PLANTS
- SODDING, SALT TOLERANT
- SEEDING CLASS 4
- SEEDING CLASS 4 & 5A
- SEEDING CLASS 4 (MODIFIED) WOODLAND
  SEEDING CLASS 5 (SPECIAL) WOODLAND

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	DRAWN - MS	REVISED -
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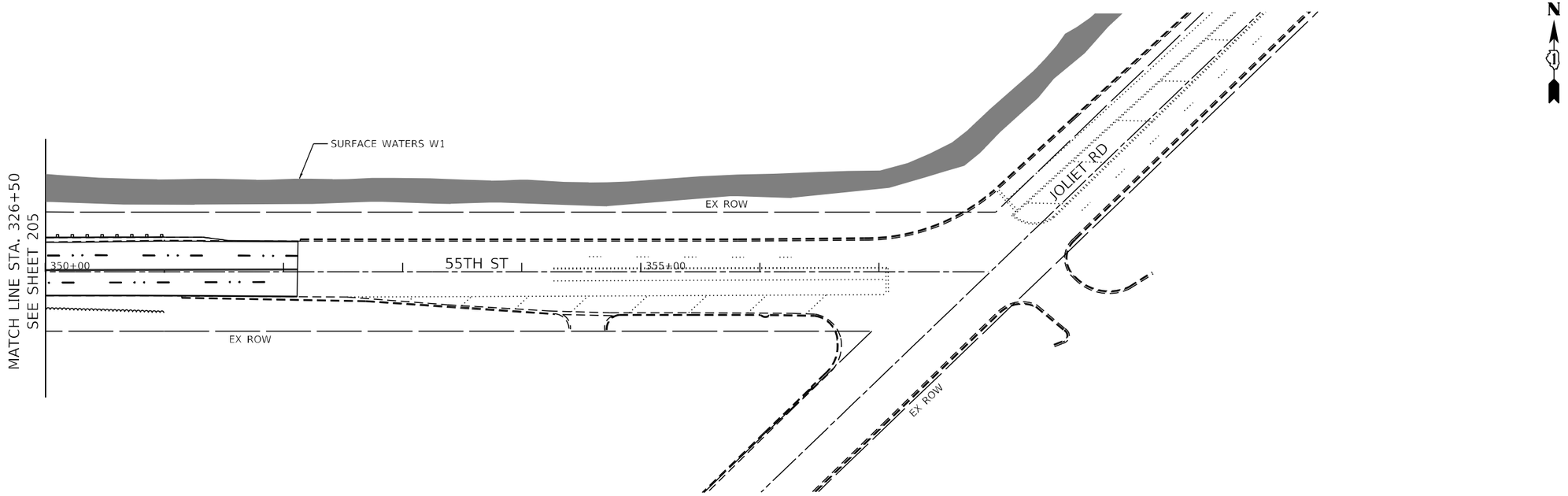
PLOT DATE = 8/5/2021	DATE - 07/30/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

55TH ST LANDSCAPING PLAN – II
EAST AVENUE (55TH ST TO JOLIET RD)

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	426	205
		CONTRACT NO. 62C25		
		ILLINOIS	FED. AID PROJECT	



LANDSCAPING LEGEND

- PR SHADE TREE
- SHRUBS
- MOWSTAKE W/SIGN
- PERENNIAL PLANTS
- SODDING, SALT TOLERANT
- SEEDING CLASS 4
- SEEDING CLASS 4 & 5A
- SEEDING CLASS 4 (MODIFIED) WOODLAND
  SEEDING CLASS 5 (SPECIAL) WOODLAND

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

55TH ST LANDSCAPING PLAN – III
EAST AVENUE (55TH ST TO JOLIET RD)

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	426	206
		CONTRACT NO. 62C25		
		ILLINOIS FED. AID PROJECT		

SCHEDULE OF PERENNIALS

KEY/TYPE	SCIENTIFIC NAME	COMMON NAME	SIZE	SPACING	UNITS (OF 100 EACH)											
					EAST AVE (SB): AT NW CORNER OF JOLIET RD (IN TURGRASS PARKWAY)	EAST AVE (NB): NEAR STA 220+00	EAST AVE (SB): AT SW CORNER OF 55TH ST	EAST AVE (NB): AT SE CORNER OF 55TH ST	JOLIET ROAD (WB): OUTFALL NEAR STA 109+00	JOLIET RD (EB): NEAR STA 111+00	EAST AVE (NB): AT NE CORNER OF JOLIET RD (IN TURGRASS PARKWAY)	EAST AVE (NB): AT NE CORNER OF 55TH ST (IN TURGRASS PARKWAY)	EAST AVE (SB): AT NW CORNER OF 55TH ST (IN TURGRASS PARKWAY)	55TH ST: E OF EAST AVE (IN TURGRASS MEDIAN)	SUBTOTALS (BY VARIETIES)	SUBTOTALS (BY TYPE)
BULB*																
	NARCISSUS SP.	KING ALFRED DAFFODILS	TOP SIZE	18"	2.25						2.50	1.50	1.25	6.00		13.50
PRAIRIE**																
	ALLIUM CERNUUM	NODDING WILD ONION	2" DIA BY 4" PLUG	12"			1.00			0.50					1.50	
	ASCLEPIAS TUBEROSA	BUTTERFLY MILKWEED	2" DIA BY 4" PLUG	12"			1.00			0.50					1.50	
	GERANIUM MACULATUM	WILD GERANIUM	2" DIA BY 4" PLUG	12"			1.00			0.50					1.50	
	GEUM TRIFLORUM	PRAIRIE SMOKE	2" DIA BY 4" PLUG	12"			1.00			0.50					1.50	
	PENSTEMON DIGITALIS	FOXGLOVE BEARDTONGUE	2" DIA BY 4" PLUG	12"			1.00			0.50					1.50	
	RUDBECKIA HIRTA	BLACK-EYED SUSAN	2" DIA BY 4" PLUG	12"			1.00			0.50					1.50	
	RUELLIA HUMILIS	WILD PETUNIA	2" DIA BY 4" PLUG	12"			1.00			0.50					1.50	
	SCHIZACHRIUM SCOPARIUM	LITTLE BLUESTEM	2" DIA BY 4" PLUG	12"			1.00			1.00					2.00	
	SPOROBOLIS HETEROLEPIS	PRAIRIE DROPSEED	2" DIA BY 4" PLUG	12"			1.00			1.00					2.00	
	ZIZIA AUREA	GOLDEN ALEXANDERS	2" DIA BY 4" PLUG	12"			1.00			0.50					1.50	PRAIRIE
							10.00			6.00						16.00
PRAIRIE																
	ALLIUM CERNUUM	NODDING WILD ONION	2" DIA BY 4" PLUG	12"		0.25		0.50							0.75	
	AMORPHA CANESCENS	LEAD PLANT	2" DIA BY 4" PLUG	12"		0.25		0.50							0.75	
	ASCLEPIAS TUBEROSA	BUTTERFLY MILKWEED	2" DIA BY 4" PLUG	12"		0.25		0.50							0.75	
	BAPTISIA AUSTRALIS	BLUE WILD INDIGO	2" DIA BY 4" PLUG	12"		0.25		0.50							0.75	
	COREOPSIS LANCEOLATA	LANCE-LEAF COREOPSIS	2" DIA BY 4" PLUG	12"		0.25		0.50							0.75	
	DALIA PURPUREA	PURPLE PRAIRIE CLOVER	2" DIA BY 4" PLUG	12"		0.25		0.50							0.75	
	ECHINACEA PURPUREA	PURPLE CONEFLOWER	2" DIA BY 4" PLUG	12"		0.25		0.50							0.75	
	LIATRIS ASPERA	ROUGH BLAZING STAR	2" DIA BY 4" PLUG	12"		0.25		0.50							0.75	
	PANICUM VIRGATUM	SWITCH GRASS	2" DIA BY 4" PLUG	12"		0.25		0.50							0.75	
	PENSTEMON DIGITALIS	FOXGLOVE BEARDTONGUE	2" DIA BY 4" PLUG	12"		0.25		0.50							0.75	
	SPOROBOLIS HETEROLEPIS	PRAIRIE DROPSEED	2" DIA BY 4" PLUG	12"		0.50		1.00							1.50	
	SCHIZACHRIUM SCOPARIUM	LITTLE BLUESTEM	2" DIA BY 4" PLUG	12"		0.50		1.00							1.50	
	SYMPHYOTRICHUM ERICOIDES	HEATH ASTER	2" DIA BY 4" PLUG	12"		0.25		0.50							0.75	
	SYMPHYOTRICHUM OOLENTANGIENSE	SKY BLUE ASTER	2" DIA BY 4" PLUG	12"		0.25		0.50							0.75	
	VERBENA STRICTA	HOARY VERVAIN	2" DIA BY 4" PLUG	12"		0.25		0.50							0.75	
	ZIZIA AUREA	GOLDEN ALEXANDERS	2" DIA BY 4" PLUG	12"		0.25		0.50							0.75	PRAIRIE
						4.50		9.00								13.50
WETLAND																
	IRIS VIRGINICA	BLUE FLAG IRIS	2" DIA BY 4" PLUG	12"					0.50						0.50	
	VERBENA HASTATA	BLUE VERVAIN	2" DIA BY 4" PLUG	12"					0.50						0.50	
	ZIZIA AUREA	GOLDEN ALEXANDERS	2" DIA BY 4" PLUG	12"					0.50						0.50	WETLAND
									1.50							1.50

ALL PERENNIAL PLANTS SHALL BE INTERMIXED AND STAGGERED

**PRAIRIE (ORNAMENTAL) PLANTS REQUIRE BED PREPARATION PRIOR TO INSTALLATION

* MAY BE INSTALLED DORMANT PRIOR TO TURGRASS SOD INSTALLATION

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PLOT DATE = 8/5/2021	DATE - 07/30/2021	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF PERENNIALS
EAST AVENUE (55TH ST TO JOLIET RD)

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	426	207
		CONTRACT NO. 62C25		
		ILLINOIS FED. AID PROJECT		

TRAFFIC SIGNAL LEGEND

(NOT TO SCALE)

ITEM	EXISTING	PROPOSED
CONTROLLER CABINET		
COMMUNICATION CABINET	ECC	CC
MASTER CONTROLLER	EMC	MC
MASTER MASTER CONTROLLER	EMMC	MMC
UNINTERRUPTABLE POWER SUPPLY		
SERVICE INSTALLATION -(P) POLE MOUNTED	P	P
SERVICE INSTALLATION -(G) GROUND MOUNTED -(GM) GROUND MOUNTED METERED	G GM	G GM
TELEPHONE CONNECTION	ET	T
STEEL MAST ARM ASSEMBLY AND POLE		
ALUMINUM MAST ARM ASSEMBLY AND POLE		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE		
SIGNAL POST -(BM) BARREL MOUNTED - TEMPORARY		BM
WOOD POLE		
GUY WIRE		
SIGNAL HEAD		
SIGNAL HEAD WITH BACKPLATE		
SIGNAL HEAD OPTICALLY PROGRAMMED	P P	P P
FLASHER INSTALLATION -(FS) SOLAR POWERED	F FS F FS	F FS F FS
PEDESTRIAN SIGNAL HEAD		
PEDESTRIAN PUSH BUTTON -(APS) ACCESSIBLE PEDESTRIAN PUSH BUTTON	APS	APS
RADAR DETECTION SENSOR	R	R
VIDEO DETECTION CAMERA	V	V
RADAR/VIDEO DETECTION ZONE		
PAN, TILT, ZOOM (PTZ) CAMERA	PTZ	PTZ
EMERGENCY VEHICLE LIGHT DETECTOR		
CONFIMATION BEACON		
WIRELESS INTERCONNECT		
WIRELESS INTERCONNECT RADIO REPEATER	ERR	RR

ITEM	EXISTING	PROPOSED
HANDHOLE -SQUARE -ROUND		
HEAVY DUTY HANDHOLE -SQUARE -ROUND	H H	H H
DOUBLE HANDHOLE		
JUNCTION BOX		
RAILROAD CANTILEVER MAST ARM		
RAILROAD FLASHING SIGNAL		
RAILROAD CROSSING GATE		
RAILROAD CROSSBUCK		
RAILROAD CONTROLLER CABINET		
UNDERGROUND CONDUIT (UC), GALVANIZED STEEL		
TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE		
SYSTEM ITEM	S	SP
INTERSECTION ITEM	I	IP
REMOVE ITEM		R
RELOCATE ITEM		RL
ABANDON ITEM		A
CONTROLLER CABINET AND FOUNDATION TO BE REMOVED		RCF
MAST ARM POLE AND FOUNDATION TO BE REMOVED		RMF
SIGNAL POST AND FOUNDATION TO BE REMOVED		RPF
DETECTOR LOOP, TYPE I		
PREFORMED DETECTOR LOOP	P P	P P
SAMPLING (SYSTEM) DETECTOR	S S	S S
INTERSECTION AND SAMPLING (SYSTEM) DETECTOR	IS IS	IS IS
QUEUE AND SAMPLING (SYSTEM) DETECTOR	QS QS	QS QS
WIRELESS DETECTOR SENSOR	W	W
WIRELESS ACCESS POINT		

ITEM	EXISTING	PROPOSED
SIGNAL HEAD -(P) PROGRAMMABLE SIGNAL HEAD	R Y G Y G / R Y G Y G P	R Y G Y G / R Y G Y G P
SIGNAL HEAD WITH BACKPLATE -(P) PROGRAMMABLE SIGNAL HEAD -(RB) RETROREFLECTIVE BACKPLATE	R Y G Y G / P / RB	R Y G Y G / P / RB
PEDESTRIAN SIGNAL HEAD AT RAILROAD INTERSECTIONS		
PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN TIMER	C D	C D
ILLUMINATED SIGN "NO LEFT TURN"/"NO RIGHT TURN"		
NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE, ALL DETECTOR LOOP CABLE TO BE SHIELDED	5	5
GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)	1#6	1#6
ELECTRIC CABLE IN CONDUIT, TRACER NO. 14 1/C	1	1
COAXIAL CABLE	C	C
VENDOR CABLE	V	V
COPPER INTERCONNECT CABLE, NO. 18, 3 PAIR TWISTED, SHIELDED	6#18	6#18
FIBER OPTIC CABLE -NO. 62.5/125, MM12F -NO. 62.5/125, MM12F SM12F -NO. 62.5/125, MM12F SM24F	12F 24F 36F	12F 24F 36F
GROUND ROD -(C) CONTROLLER -(M) MAST ARM -(P) POST -(S) SERVICE	C M P S	C M P S

TS SHT NO. 1

FILE NAME = Q:\Engineering\LiveProjects\13031 IDOT East Ave\CADD\CADD Sheets\Civil\0162C25-sht-Dist Std.dgn

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	DRAWN - IP	REVISED -	
PLOT SCALE = 50.0000 ' / in.	CHECKED - LP	REVISED -	
PLOT DATE = 3/4/2019	DATE - 9/29/2016	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET 1 OF 7 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	426	208
TS-05		CONTRACT NO. 62C25		
	ILLINOIS	FED. AID PROJECT		

LOOP DETECTOR NOTES

1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NONMETALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). EMPTY COILABLE NONMETALLIC CONDUIT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.

2. THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.

3. EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.

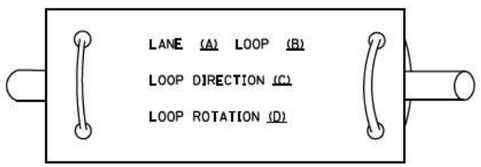
4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.

5. IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVEHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.

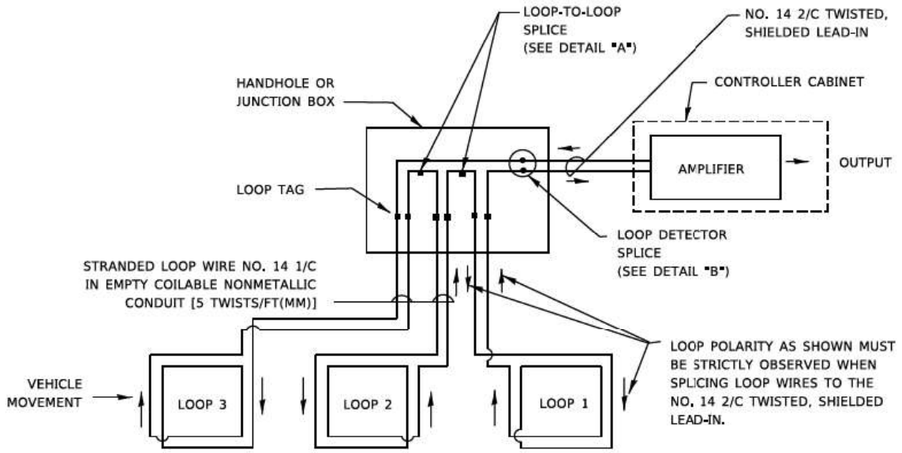
6. LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.

7. PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

LOOP LEAD-IN CABLE TAG

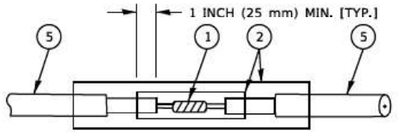


A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

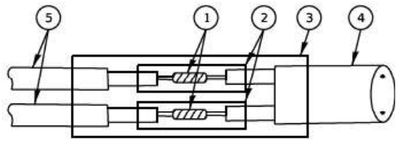


DETECTOR LOOP WIRING SCHEMATIC

- LOOPS SHALL BE SPLICED IN SERIES. SAW-CUTS SHALL BE A MINIMUM WIDTH OF 5/16" (8 mm).
- SAW-CUT DEPTHS SHALL BE 3" (75 mm). IF IN CONCRETE,
- THE SAW-CUT DEPTH SHALL BE TO THE TOP OF THE REINFORCEMENT.
- LOOP CORNERS SHALL BE DRILLED WITH A 2" (50 mm) DIAMETER CORE.

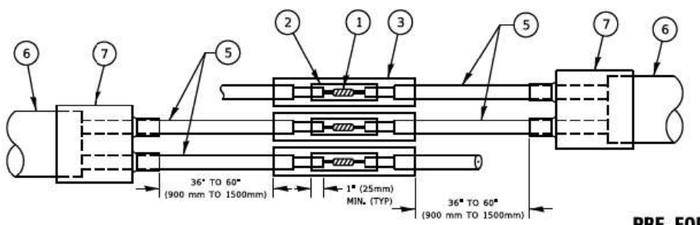


DETAIL "A"
LOOP-TO-LOOP SPLICE



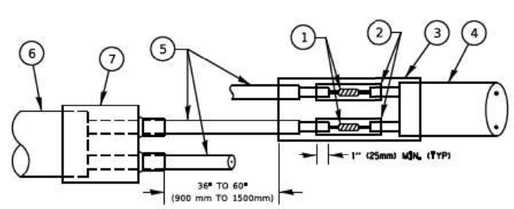
DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP



DETAIL "A"
LOOP-TO-LOOP SPLICE

PRE-FORMED LOOP



DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

LOOP DETECTOR SPLICE

(1) WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH. THE WESTERN UNION SPLICES SHALL BE STAGGERED.

(2) WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.

(3) WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGHT 6" (150 mm), UNDERWATER GRADE.

(4) NO. 14 2/C TWISTED, SHIELDED CABLE.

(5) LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE, PRE-FORMED LOOP

(6) XL POLYOLEFIN 2 CONDUCTOR

(7) BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

TS SHT NO. 2

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

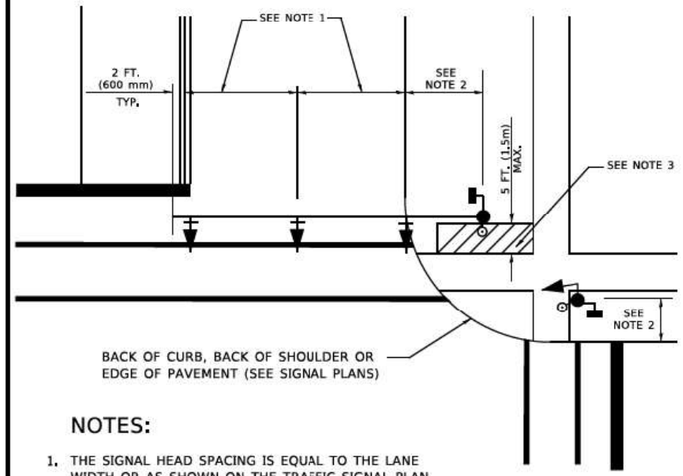
DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET 2 OF 7 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	D102N&T	COOK	426	209
	TS-05	CONTRACT NO. 62C25		
	ILLINOIS FED. AID PROJECT			

TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

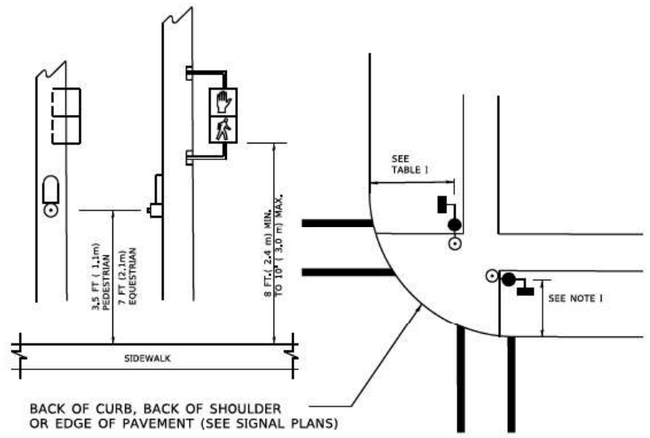
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



NOTES:

1. THE SIGNAL HEAD SPACING IS EQUAL TO THE LANE WIDTH OR AS SHOWN ON THE TRAFFIC SIGNAL PLAN.
2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
3. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE CR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR THE SIGNAL POST.
4. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
5. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

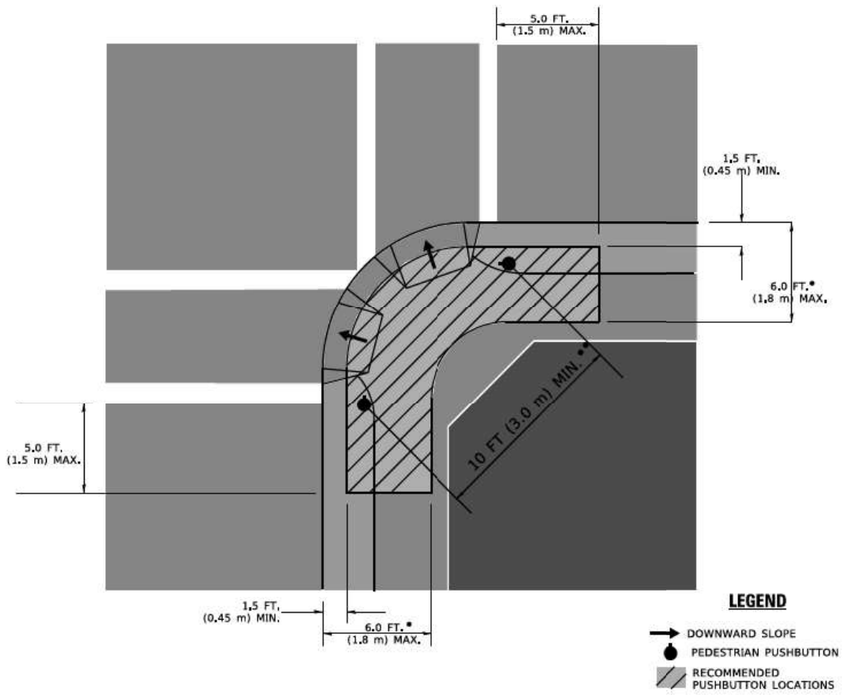
PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST



NOTES:

1. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
2. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE PEDESTRIAN SIGNAL POST OR THE PEDESTRIAN PUSH BUTTON POST.
3. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
4. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

RECOMMENDED PUSHBUTTON LOCATIONS



* WHERE THERE ARE CONSTRAINTS THAT MAKE IT IMPRACTICAL TO PLACE THE PEDESTRIAN PUSHBUTTON BETWEEN 1.5 FT (0.45 m) AND 6 FT (1.8 m) FROM THE EDGE OF THE CURB, SHOULDER, OR PAVEMENT, IT SHOULD NOT BE FURTHER THAN 10 FT (3 m) FROM THE EDGE OF CURB, SHOULDER, OR PAVEMENT.

** WHERE THERE ARE CONSTRAINTS ON A PARTICULAR CORNER THAT MAKE IT IMPRACTICAL TO PROVIDE THE 10 FT (3 m) SEPERATION BETWEEN THE TWO PEDESTRIAN PUSHBUTTONS, THE PUSHBUTTONS MAY BE PLACED CLOSER TOGETHER OR ON THE SAME POLE.

NOTES:

1. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 8 FT (2.4 m) OR MORE THAN 10 FT (3 m) ABOVE SIDEWALK LEVEL, AND SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.
2. THE BOTTOM OF THE SIGNAL HOUSING (INCLUDING BRACKETS) OF A VEHICULAR SIGNAL FACE THAT IS NOT LOCATED OVER A HIGHWAY SHALL BE AT LEAST 8 FT (2,4 m) BUT NOT MORE THAN 19 FT (5,8 m) ABOVE THE SIDEWALK OR, IF THERE IS NO SIDEWALK, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE ROADWAY.
3. THE BOTTOM OF THE SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001, 877002, 877006, 877011 AND 877012 WITH A MINIMUM OF 16 FT (5.0 m) AND A MAXIMUM OF 18 FT. (5.5 m) FROM THE HIGHEST POINT OF PAVEMENT.
4. THE BOTTOM OF THE TEMPORARY SPAN WIRE MOUNTED SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARD 880001 WITH A MINIMUM OF 17 FT (5.18 m) FROM THE HIGHEST POINT OF PAVEMENT.
5. THE TOP OF THE SIGNAL HOUSING OF A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL NOT BE MORE THAN 25.6 FT (7.8 m) ABOVE THE PAVEMENT.

TRAFFIC SIGNAL EQUIPMENT OFFSET

TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN PUSHBUTTON POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TEMPORARY WOOD POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
CONTROLLER CABINET	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.
SERVICE INSTALLATION, GROUND MOUNT	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.

NOTES:

1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
3. MINIMUM DISTANCE FROM THE EDGE OF PAVEMENT TOTHE ROADWAY SIDE OF THE FOUNDATION.
4. ANY CHANGES TO THE OFFSETS OF THE FOUNDATIONS, FROM THE MINIMUM DISTANCES LISTED IN THE "TRAFFIC SIGNAL EQUIPMENT OFFSET" CHART AND THE TRAFFIC SIGNAL INSTALLATION PLAN, COULD EFFECT THE PLACEMENT OF THE SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS AND THE PEDESTRIAN PUSHBUTTONS. THE SIGNAL HEAD PLACEMENT ON THE MAST ARMS SHALL REMAIN AS PER THE TRAFFIC SIGNAL INSTALLATION PLAN AND THE "TRAFFIC SIGNAL MAST ARM AND SIGNAL POST" DETAIL ABOVE. THE PROPOSED MAST ARM LENGTHS MAY NEED TO BE REVISED TO MEET THE ABOVE REQUIREMENTS. THE PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS MUST MEET THE REQUIREMENTS UNDER THE DETAILS ON THIS SHEET.

TS SHT NO. 3

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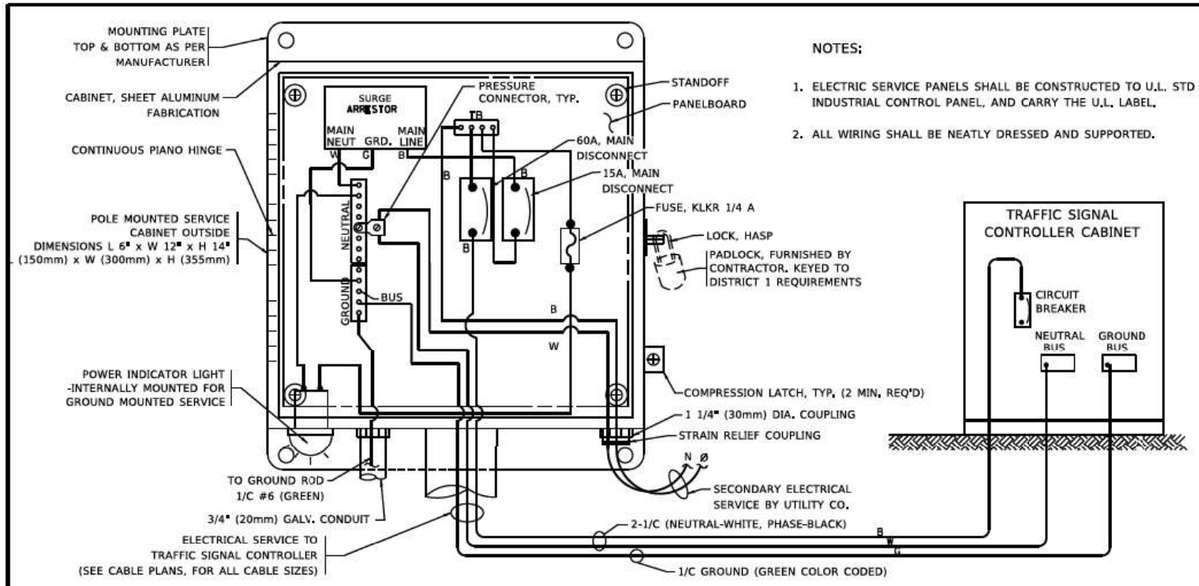
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET 3 OF 7 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	D1D2N&T	COOK	426	210
	TS-05	CONTRACT NO. 62C25		
	ILLINOIS FED. AID PROJECT			



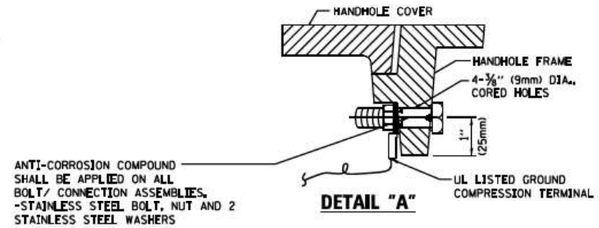
NOTES:

1. ELECTRIC SERVICE PANELS SHALL BE CONSTRUCTED TO U.L. STD 508, INDUSTRIAL CONTROL PANEL, AND CARRY THE U.L. LABEL.
2. ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.

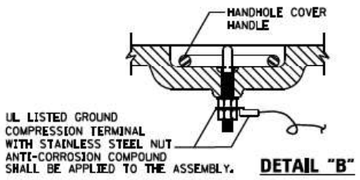
ELECTRICAL SERVICE – PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)

SERVICE INSTALLATION POLE MOUNT (SHOWN)

(NOT TO SCALE)



DETAIL "A"

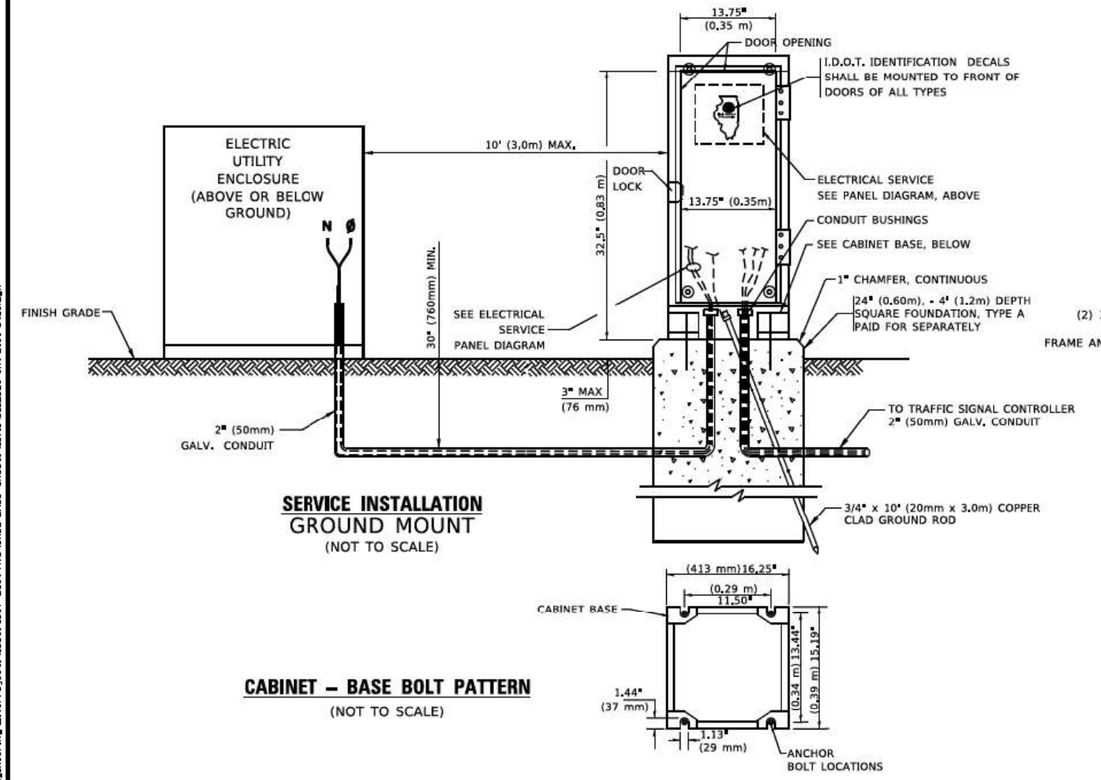


DETAIL "B"

NOTES:

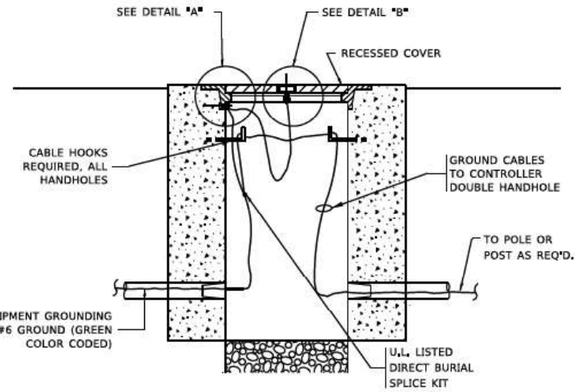
GROUNDING SYSTEM

1. THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR TYPE XLP, NO. 6 A.W.G., STRANDED COPPER TO BE INSTALLED IN RACEWAYS. THE GROUNDING CABLE SHALL BE INSTALLED IN A CONTINUOJS MANNER AS SHOWN ON THE CABLE PLAN PROVIDED. ALL GROUNDING CONDUCTORS SHALL BE BONDED TO METAL ENCLOSURE (HANDHOLE, POST, MAST ARM, CONTROLLER, ETC,). GROUND ROD SHALL BE 3/4" DIA. x 10'-0" (20mm x 3.0m) LONG, COPPER CLAD. ONE GROUND ROD SHALL BE INSTALLED AT ALL POST FOUNDATIONS, POLE FOUNDATIONS, CONTROLLER CABINET FOUNDATION AND ELECTRICAL SERVICE INSTALLATION AS INDICATED ON THE CABLE PLAN. IF THERE ARE ANY SPECIAL CONDITIONS SUCH AS SUB-SURFACE CONDITIONS OR INSTALLATION PROBLEMS, THE RESIDENT ENGINEER SHALL BE NOTIFIED OR CONTACT THE BUREAU OF TRAFFIC, ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE AT (847) 705-4139.
2. THE NEUTRAL CONDUCTOR AND THE GROUND CONDUCTOR SHALL BE CONNECTED IN THE SERVICE INSTALLATION. AT NO OTHER POINT IN THE TRAFFIC SIGNAL SYSTEM SHALL THE NEUTRAL AND GROUND CONDUCTORS BE CONNECTED.
3. ALL EQUIPMENT GROUNDING CONDUCTORS SHALL TERMINATE AT THE GROUND BUS IN THE CONTROLLER CABINET.
4. THE CONTRACTOR SHALL PROVIDE A GROUND CABLE WITH CONNECTORS BETWEEN THE HANDHOLE COVER AND HANDHOLE FRAME.

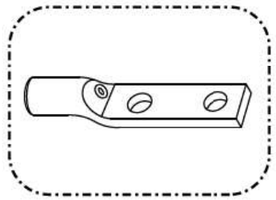


SERVICE INSTALLATION
GROUND MOUNT
(NOT TO SCALE)

CABINET – BASE BOLT PATTERN
(NOT TO SCALE)



HANDHOLE COVER & FRAME – GROUNDING DETAIL
(NOT TO SCALE)

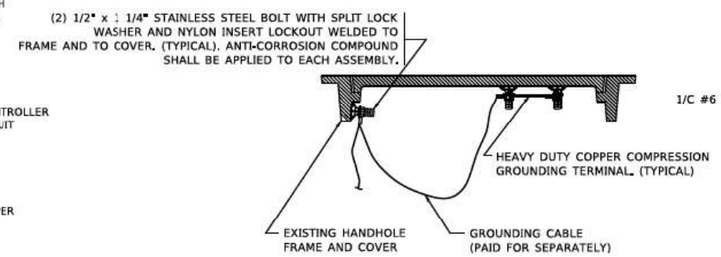


HEAVY-DUTY COMPRESSION TERMINAL
(BURNDY TYPE YGHA OR APPROVED EQUAL)

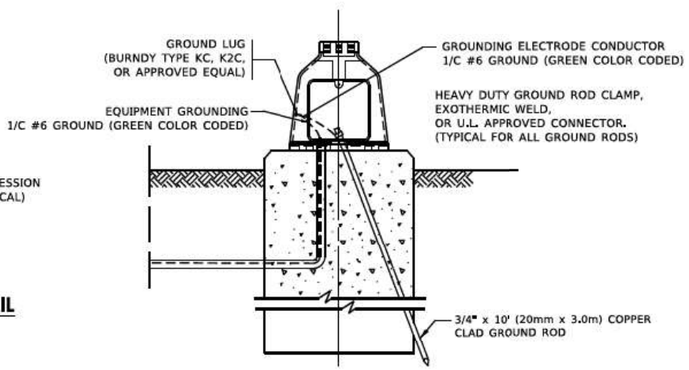
¾" (20mm) HEAVY-DUTY GROUND ROD CLAMP
(BURNDY TYPE GRC OR APPROVED EQUAL)

NOTES:

- ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
- GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES 6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES 13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES. 5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.



EXISTING HANDHOLE COVER & FRAME – GROUNDING DETAIL
(NOT TO SCALE)



MAST ARM POLE /POST–GROUNDING DETAIL
(NOT TO SCALE)

TS SHT NO. 4

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET 4 OF 7 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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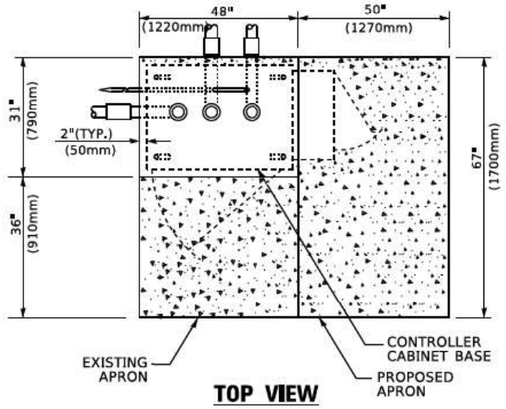
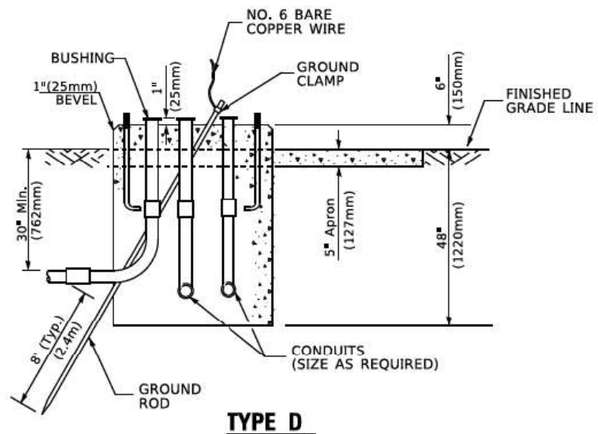
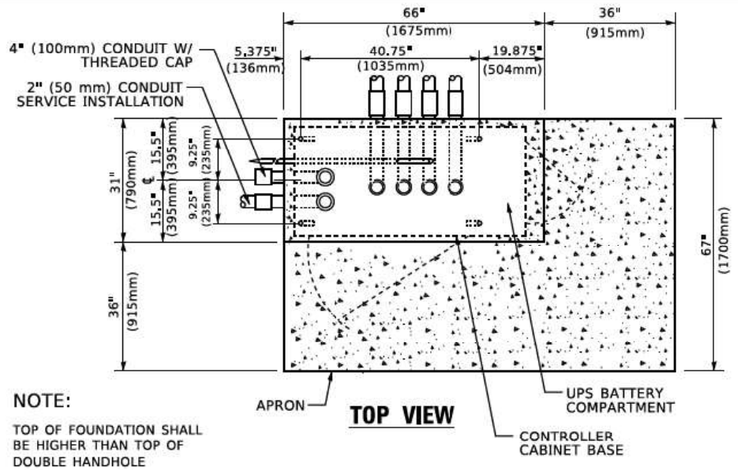
	TS-05	CONTRACT NO. 62C25		
	ILLINOIS FED. AID PROJECT			



TOP VIEW



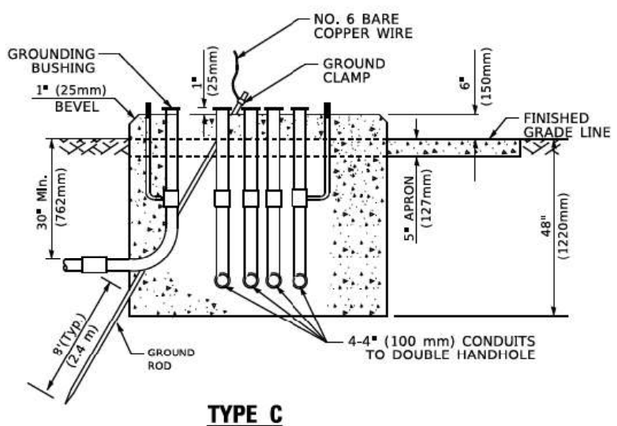
TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET



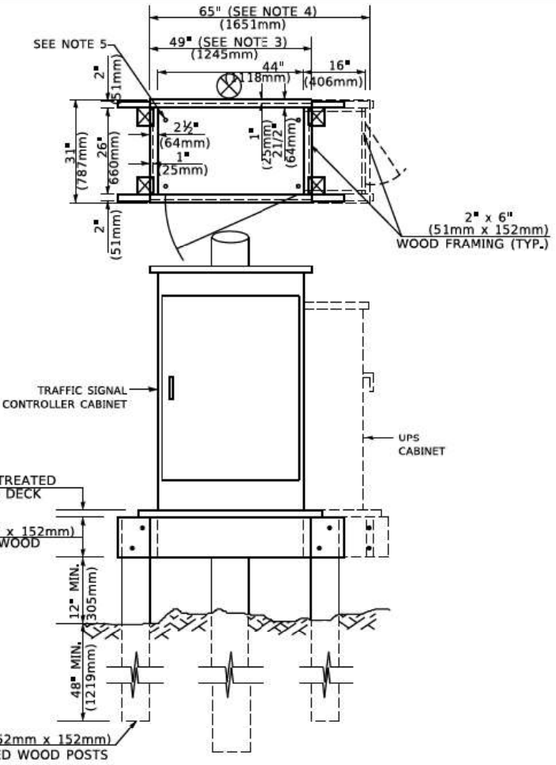
NOTE:

TOP OF FOUNDATION SHALL BE HIGHER THAN TOP OF DOUBLE HANDHOLE

TOP VIEW



TYPE C
FOR GROUND MOUNTED
SUPER P (TYPE IV) AND SUPER R (TYPE V)
CONTROLLER CABINETS



NOTES:

1. BASED ON CONTROLLER CABINET TYPE IV WITH BASE DIMENSIONS OF 26" x 44" (660mm x 1118mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED
2. BASED ON UNINTERRUPTIBLE POWER SUPPLY CABINET WITH BASE DIMENSIONS OF 16" x 25" (406mm x 635mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
3. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV.
4. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV AND UNINTERRUPTIBLE POWER SUPPLY CABINET.
5. DRILLED HOLES THROUGH THE PLATFORM BASE TO MATCH THE CONTROLLER CABINET BOLT TEMPLATE. FASTEN THE CONTROLLER CABINET TO THE PLATFORM WITH CARRIAGE BOLTS, WASHERS AND NUTS.
6. FASTEN ALL SUPPORT WOOD FRAMING TO THE WOOD POSTS WITH 2 LAG SCREWS FOR EACH CONNECTION..

TEMPORARY SIGNAL CONTROLLER
WOOD SUPPORT PLATFORM

CABLE SLACK LENGTH	FEET	METER
HANDHOLE	6.5	2.0
DOUBLE HANDHOLE	13.0	4.0
SIGNAL POST	2.0	0.6
MAST ARM	2.0	0.6
CONTROLLER CABINET	1.5	0.5
FIBER OPTIC AT CABINET	13.0	4.0
ELECTRIC SERVICE AT (CABINET OR SERVICE LOCATION)	1.5	0.5
GROUND CABLE (SIGNAL POST, MAST ARM, CABINET)	1.5	0.5
GROUND CABLE (BETWEEN FRAME AND COVER)	5.0	1.6

CABLE SLACK

VERTICAL CABLE LENGTH	FEET	METER
MAST ARM POLE (MAST ARM MOUNTED SIGNAL HEAD) (L = MAST ARM LENGTH - DISTANCE TO SIGNAL HEAD FROM END OF ARM)	20.0+L	6.0+L
BRACKET MOUNTED (MAST ARM POLE OR SIGNAL POLE)	13.0	4.0
PEDESTRIAN PUSH BUTTON	6.0	2.0
SERVICE INSTALLATION POLE MOUNT TO SERVICE DROP	13.5	4.1
SERVICE INSTALLATION POLE MOUNT TO GROUND	13.5	4.1
SERVICE INSTALLATION GROUND MOUNT	6.0	2.0
FOUNDATION (SIGNAL POST, MAST ARM POLE, CONTROLLER CABINET, SERVICE-GROUND MOUNT)	3.0	1.0

VERTICAL CABLE LENGTH

FOUNDATION	DEPTH
TYPE A - Signal Post	4'-0" (1.2m)
TYPE C - CONTROLLER W/ UPS	4'-0" (1.2m)
TYPE D - CONTROLLER	4'-0" (1.2m)
SERVICE INSTALLATION, GROUND MOUNT, TYPE A - SQUARE	4'-0" (1.2m)

DEPTH OF FOUNDATION

Mast Arm Length	① Foundation Depth	Foundation Diameter	Spiral Diameter	Quantity of Rebars	Size of Rebars
Less than 30' (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 30' (9.1 m) and less than 40' (12.2 m)	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
	11'-0" (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 56' (16.8 m) and less than 65' (19.8 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 65' (19.8 m) and up to 75' (22.9 m)	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

NOTES:

1. These foundation depths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along the length of the shaft, with an average Unconfined Compressive Strength (Qu) > 1.0 tsf (100 kpa). This strength shall be verified by boring data prior to construction or with testing by the Engineer during foundation drilling. The Bureau of Bridges & Structures should be contacted for a revised design if other conditions are encountered.
2. Combination mast arm assemblies under 55 feet (16.8 m) shall use 36" (900 mm) diameter foundations.
3. Combination mast arm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm) diameter foundations
4. For mast arm assemblies with dual arms refer to state standard 878001..

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

TS SHT NO. 5

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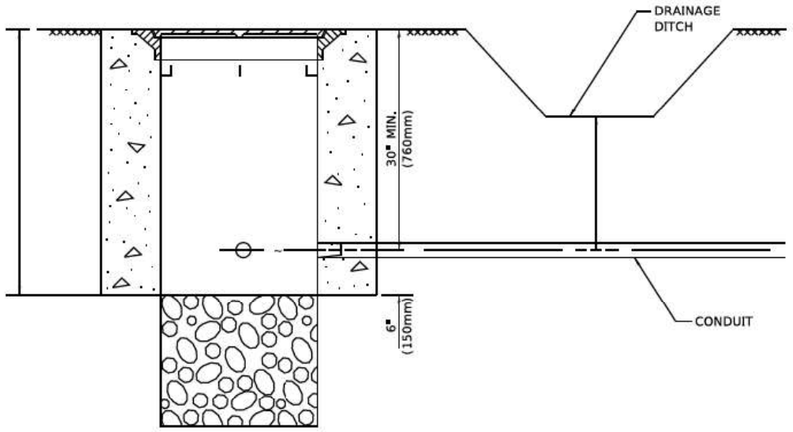
	DRAWN -	REVISED -
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 3/4/2019	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET 5 OF 7 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	426	212
	TS-05	CONTRACT NO. 62C25		
	ILLINOIS FED. AID PROJECT			

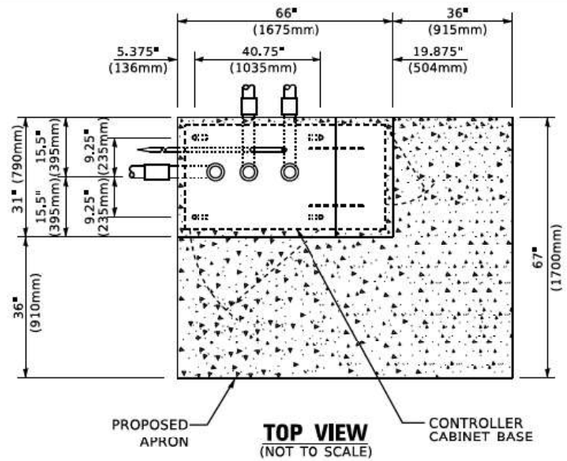


NOTES:

1. CONDUIT DEPTH SHALL BE A MINIMUM OF 30" (760mm) BELOW THE BOTTOM OF THE DRAINAGE DITCH OR ANY SLOPING GROUND
2. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL CONDUIT PLACED UNDER ROADWAY PAVEMENT, MULTI-USE PATHS, SIDEWALKS AND SOIL SURFACES.
3. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL HANDHOLES, HEAVY DUTY HANDHOLES AND DOUBLE HANDHOLES.

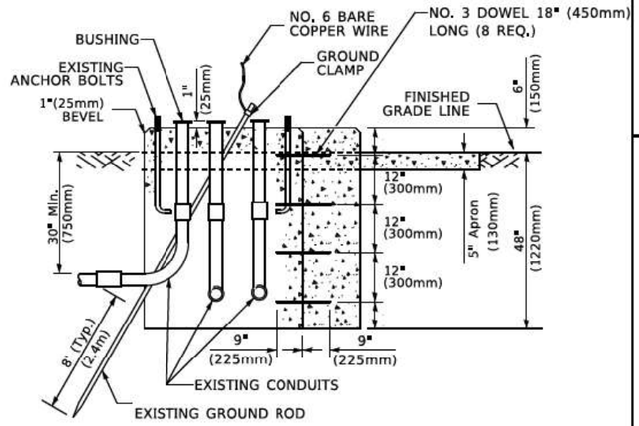
HANDHOLE WITH MINIMUM CONDUIT DEPTH

(NOT TO SCALE)



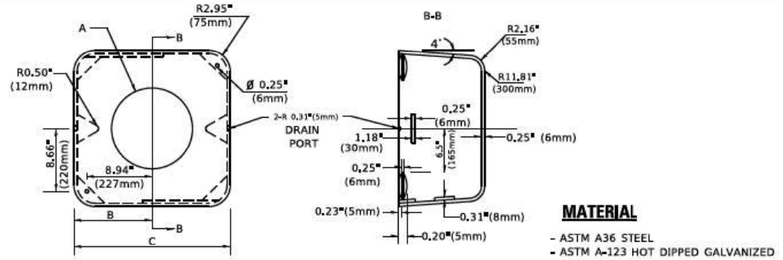
TOP VIEW

(NOT TO SCALE)



MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION

(NOT TO SCALE)



MATERIAL

- ASTM A36 STEEL
- ASTM A-123 HOT DIPPED GALVANIZED

A	B	C	HEIGHT	WEIGHT
VARIES	9.5"(241mm)	19"(483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)
VARIES	10.75"(273mm)	21.5"(546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)
VARIES	13.0"(330mm)	26"(660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)
VARIES	18.5"(470mm)	37"(940mm)	7" (178mm) - 12" (300mm)	126 lbs (57 kg)

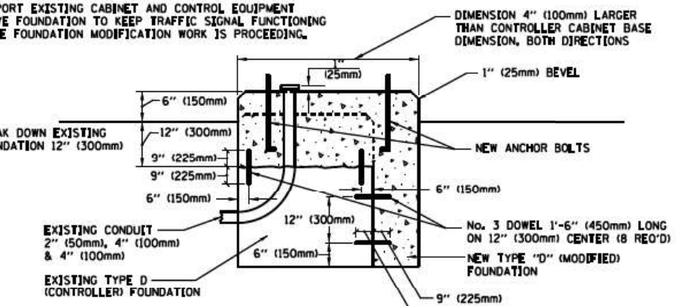
SHROUD

NOTES:

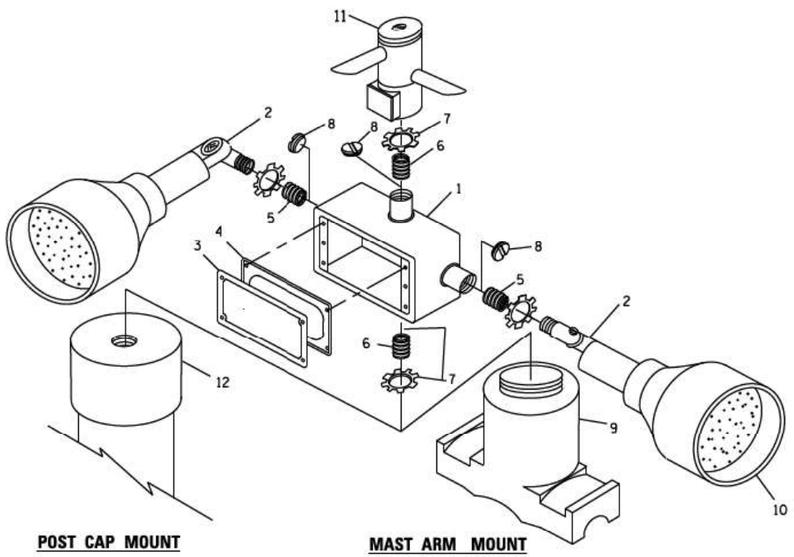
1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
2. THE SUPPLIER SHALL VERIFIED THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.

NOTE:

SUPPORT EXISTING CABINET AND CONTROL EQUIPMENT ABOVE FOUNDATION TO KEEP TRAFFIC SIGNAL FUNCTIONING WHILE FOUNDATION MODIFICATION WORK IS PROCEEDING.



MODIFY EXISTING TYPE "D" FOUNDATION



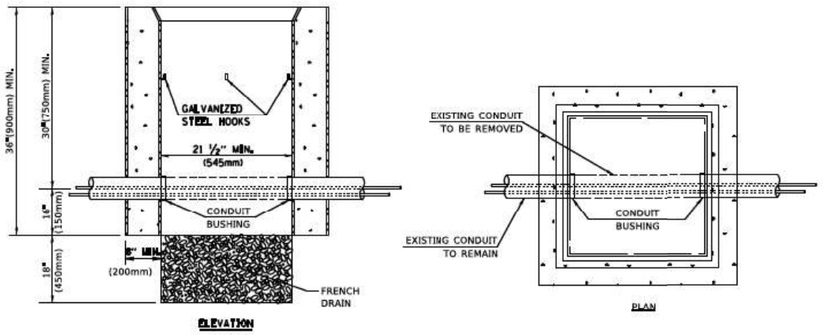
POST CAP MOUNT MAST ARM MOUNT

EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL

ITEM NO.	IDENTIFICATION
1	OUTLET BOX- GALV. 21 CU.IN. (0.000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	½"(19 mm) CLOSE NIPPLE
7	¾"(19 mm) LOCKNUT
8	¾"(19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	6 WATT PAR 38 LED FLOOD LAMP
11	DETECTOR UNIT
12	POST CAP (18 FT. (5.4 m) POST MIN.)

NOTES:

1. ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
2. ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT
   ITEM #2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT
   ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
3. WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED. THE DETECTION UNIT SHALL BE MOUNTED DIRECTLY ON TOP OF THE CAP BY DRILLING AND TAPPING A 3/4 "(19 mm) HOLE WITH PIPE THREADS. THE POST CAP SHALL EITHER BE SCREWED TO THE TOP OF THE POST OR A MINIMUM OF 3 TIGHTENING SCREWS SHALL BE REQUIRED ON EACH CAP.



NOTES:

1. HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
2. REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCLUDED WITH THE COST OF THE HANDHOLE.

HANDHOLE TO INTERCEPT EXISTING CONDUIT

TS SHT NO. 6

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	DRAWN -	REVISED -
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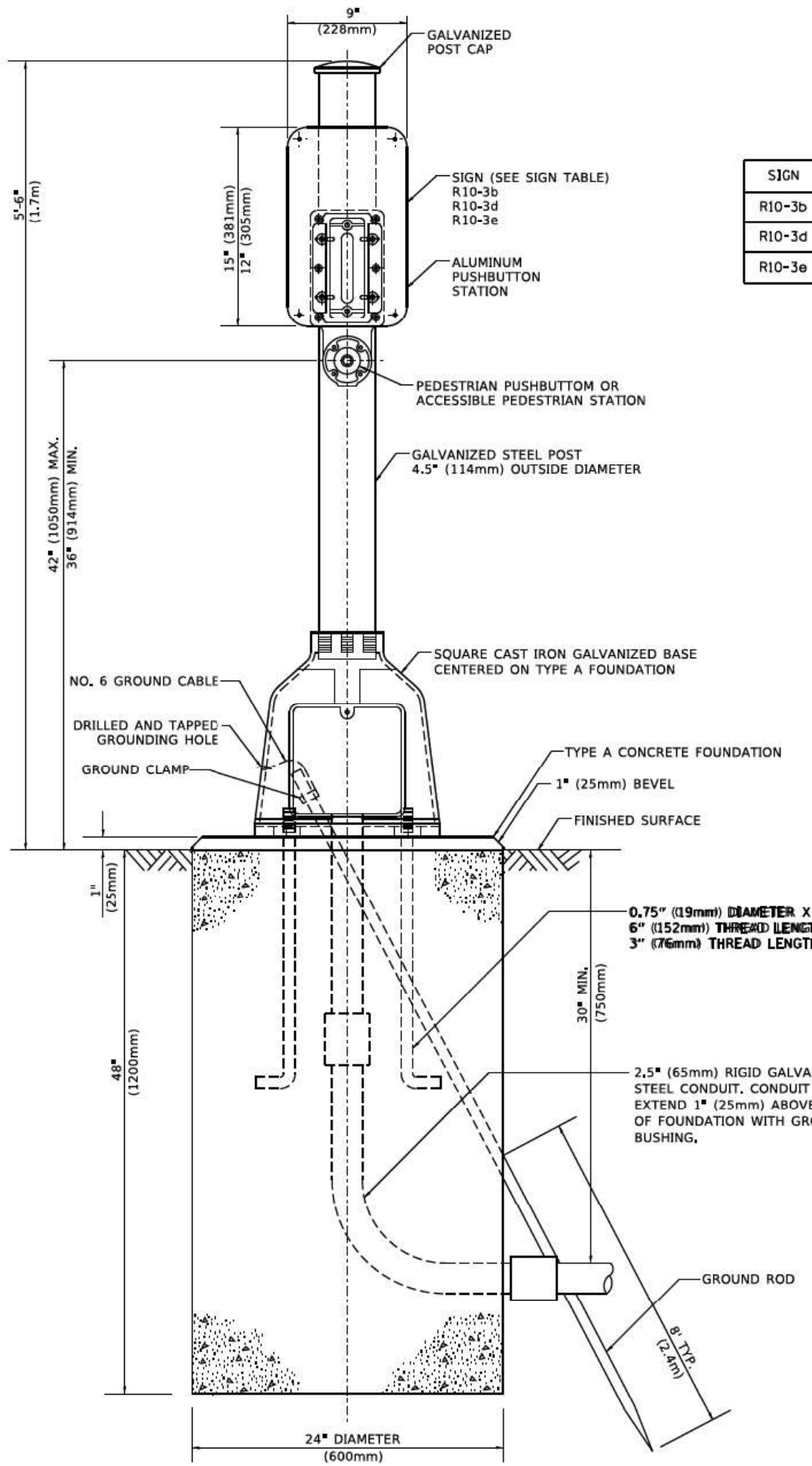
PLOT DATE = 3/4/2019	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

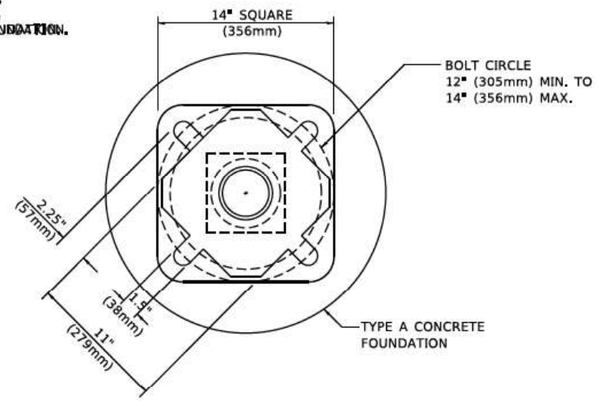
SCALE: NONE | SHEET 6 OF 7 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	D102N&T	COOK	426	213
	TS-05	CONTRACT NO. 62C25		
	ILLINOIS FED. AID PROJECT			



SIGN TABLE

SIGN	DIMENSIONS
R10-3b	9'' (228mm) X 12'' (305mm)
R10-3d	9'' (228mm) X 12'' (305mm)
R10-3e	9'' (228mm) X 15'' (381mm)



BOLT PATTERN

PEDESTRIAN PUSH BUTTON POST, TYPE A

TS SHT NO. 7

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	D1D2N&T	COOK	426	214
	TS-05	CONTRACT NO. 62C25		
	ILLINOIS FED. AID PROJECT			

REMOVAL AND RELOCATION NOTES:

THE FOLLOWING ITEMS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

4 EACH STEEL MAST ARM ASSEMBLY AND POLE
4 EACH TRAFFIC SIGNAL POST
6 EACH 3-SECTION SIGNAL HEAD
6 EACH 4-SECTION SIGNAL HEAD
4 EACH 5-SECTION SIGNAL HEAD
1 EACH SERVICE INSTALLATION
4 EACH TRAFFIC SIGNAL BACKPLATE

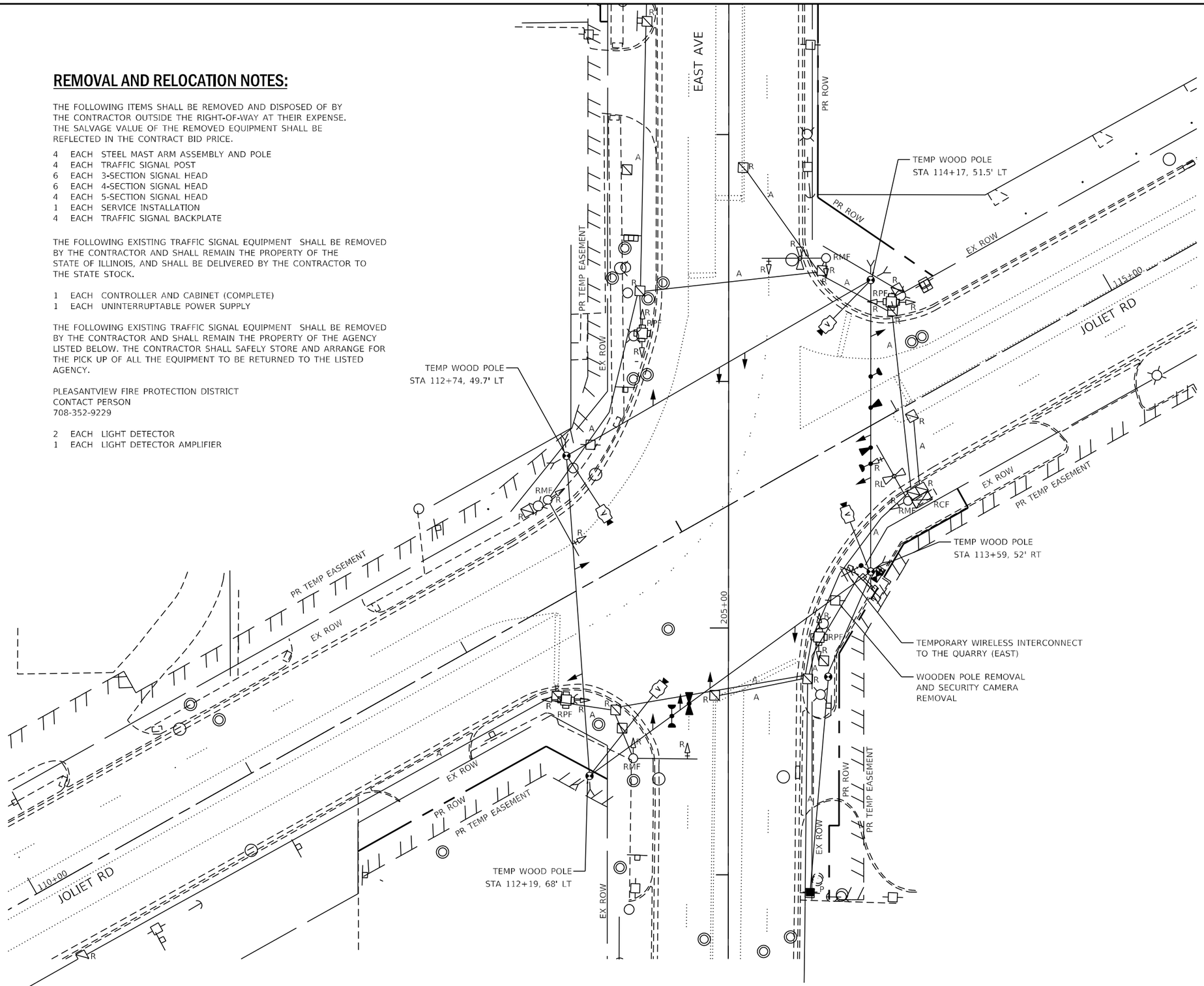
THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE STATE OF ILLINOIS, AND SHALL BE DELIVERED BY THE CONTRACTOR TO THE STATE STOCK.

1 EACH CONTROLLER AND CABINET (COMPLETE)
1 EACH UNINTERRUPTABLE POWER SUPPLY

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE AGENCY LISTED BELOW. THE CONTRACTOR SHALL SAFELY STORE AND ARRANGE FOR THE PICK UP OF ALL THE EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY.

PLEASANTVIEW FIRE PROTECTION DISTRICT
CONTACT PERSON
708-352-9229

2 EACH LIGHT DETECTOR
1 EACH LIGHT DETECTOR AMPLIFIER



NOTES:

1. THE CONTRACTOR SHALL CHECK THE PROPOSED TRAFFIC SIGNAL EQUIPMENT LOCATIONS FOR OVERHEAD UTILITY CONFLICTS. THE CONTRACTOR SHALL COORDINATE ANY CONFLICTS WITH THE UTILITY COMPANIES AND THE RESIDENT ENGINEER BEFORE ORDERING MATERIALS.
2. SEE SHEETS 216 THROUGH 224 FOR RELOCATION OF SIGNAL HEADS TO ALIGN WITH TRAFFIC IN STAGES 1 TO 3B.
3. SECURITY CAMERA REMOVAL IS INCLUDED IN THE COST OF THE WOODEN POLE REMOVAL.

TS 5065
EAGLE 2B

TS SHT NO. 8

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Accurate GROUP, INC.

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PLOT SCALE = 40.0000 ' / in.	CHECKED - TGM	REVISED -
PLOT DATE = 8/5/2021	DATE - 07/30/2021	REVISED -

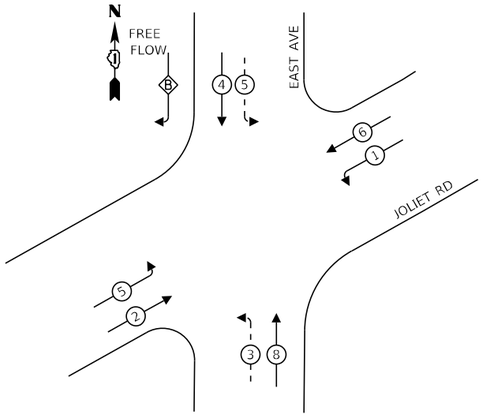
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN AND REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN
EAST AVE AT JOLIET RD

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	426	215
		CONTRACT NO. 62C25		
	ILLINOIS FED. AID PROJECT			

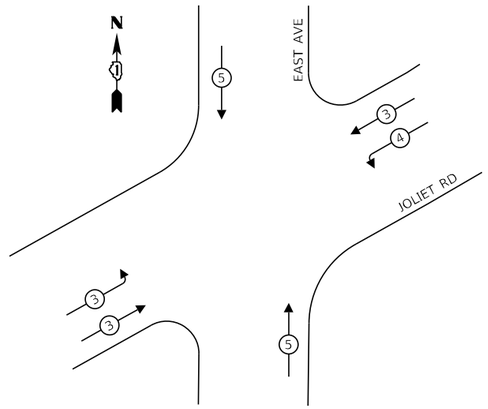
INITIAL TEMPORARY CONTROLLER SEQUENCE



LEGEND:

- PROTECTED PHASE
- PROTECTED/PERMITTED PHASE
- PEDESTRIAN PHASE
- OL OVERLAP
- * NUMBER REFERS TO ASSOCIATED PHASE

INITIAL TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE



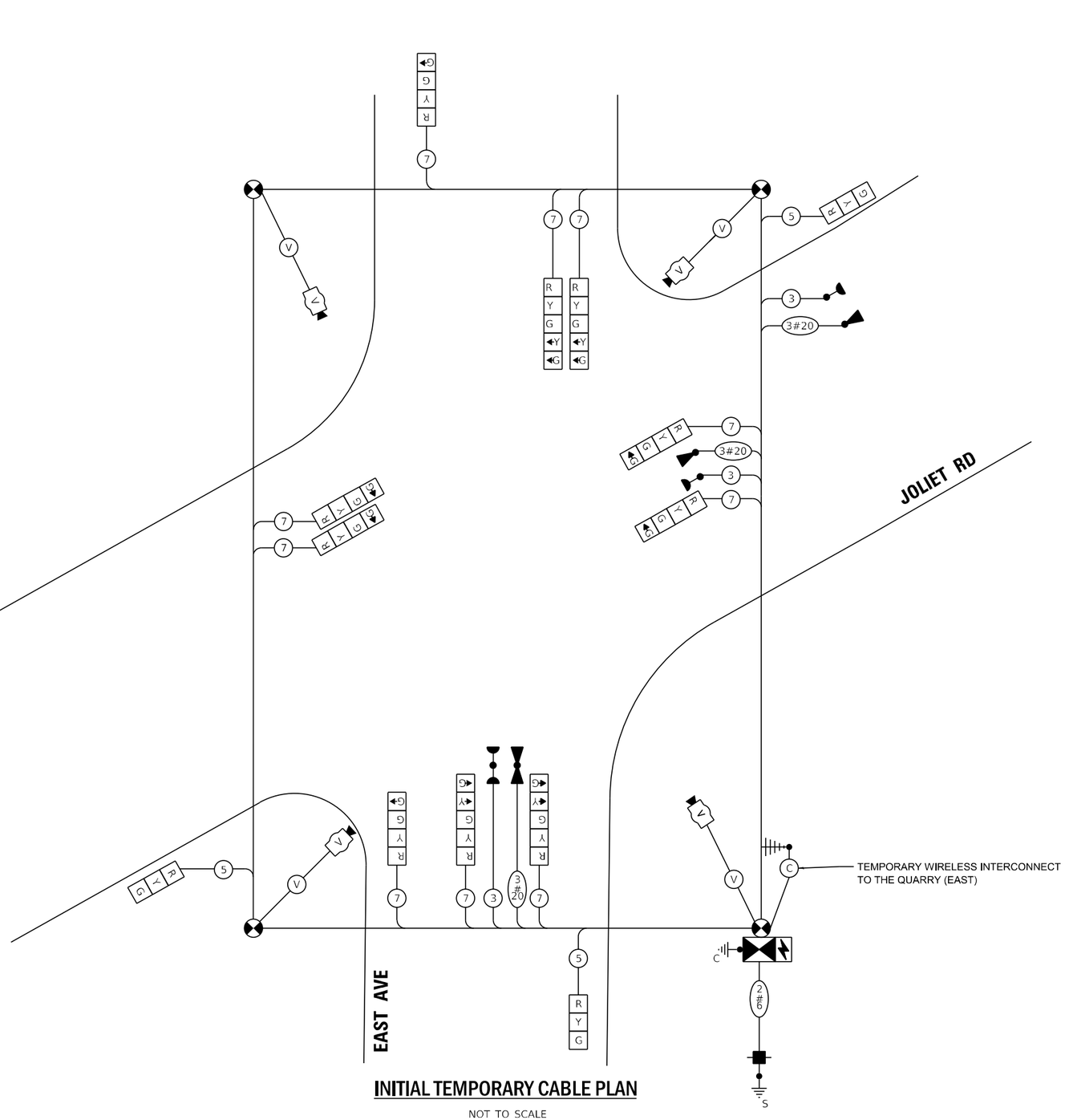
TRAFFIC SIGNAL
ELECTRICAL SERVICE REQUIREMENTS - STAGE 1

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	13	11	50	71.5
(YELLOW)	13	20	5	13.0
(GREEN)	13	12	45	91.8
PERMISSIVE ARROW	8	10	10	8
FREE FLOW GREEN	2	12	100	24.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
			TOTAL =	483.3

ENERGY COSTS TO:

VILLAGE OF HODGKINS
8990 LYONS STREET
HODGKINS, IL 60525

ENERGY SUPPLY: CONTACT: ILYAS MOHIUDDIN
PHONE: 708-235-2692
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER: ---



INITIAL TEMPORARY CABLE PLAN

NOT TO SCALE

TS 5065
EAGLE 2B

TS SHT NO. 9

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Accurate GROUP, INC.

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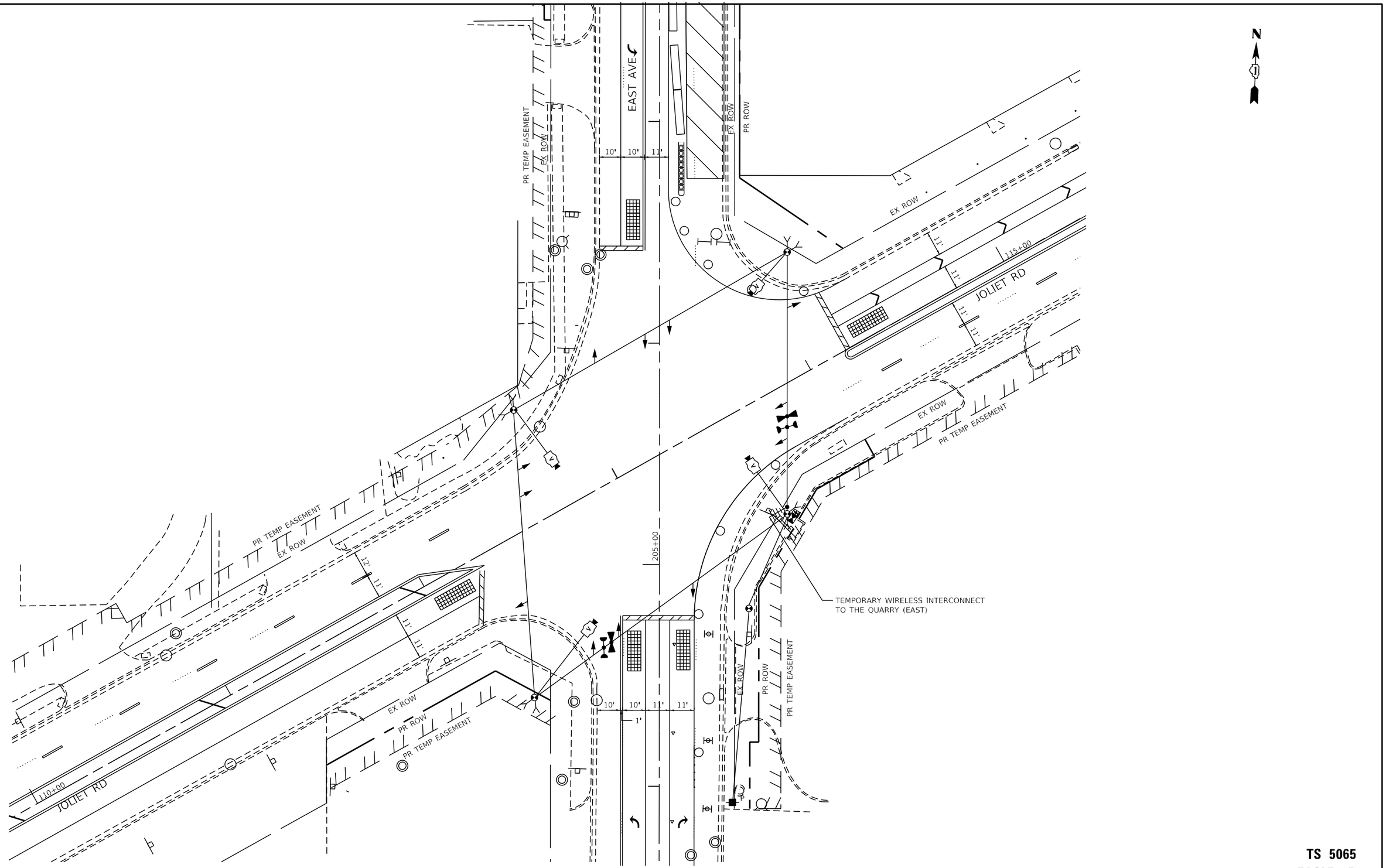
PLOT DATE = 8/5/2021	DATE - 07/30/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL CABLE PLAN - INITIAL
EAST AVE AT JOLIET RD
EAST AVENUE (55TH ST TO JOLIET RD)

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	426	216
		CONTRACT NO. 62C25		
		ILLINOIS FED. AID PROJECT		



TS SHT NO. 10

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TS 5065
EAGLE 2B

Accurate GROUP, INC.	USER NAME = jschumann	DESIGNED - LC	REVISED -
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	PLOT DATE = 8/5/2021	DATE - 07/30/2021	REVISED -

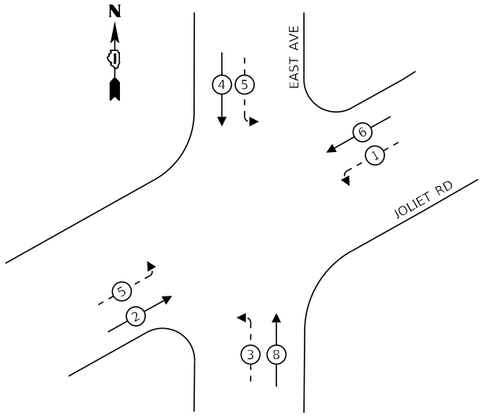
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 1
EAST AVE AT JOLIET RD
EAST AVENUE (55TH ST TO JOLIET RD)

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	426	217
		CONTRACT NO. 62C25		
	ILLINOIS FED. AID PROJECT			

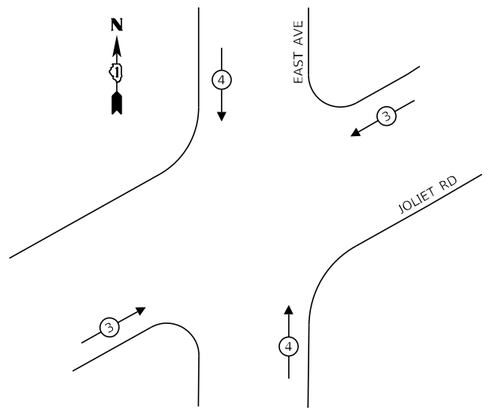
TEMPORARY CONTROLLER SEQUENCE - STAGE 1



LEGEND:

- PROTECTED PHASE
- PROTECTED/PERMITTED PHASE
- PEDESTRIAN PHASE
- OL — OVERLAP
- * NUMBER REFERS TO ASSOCIATED PHASE

TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE - STAGE 1



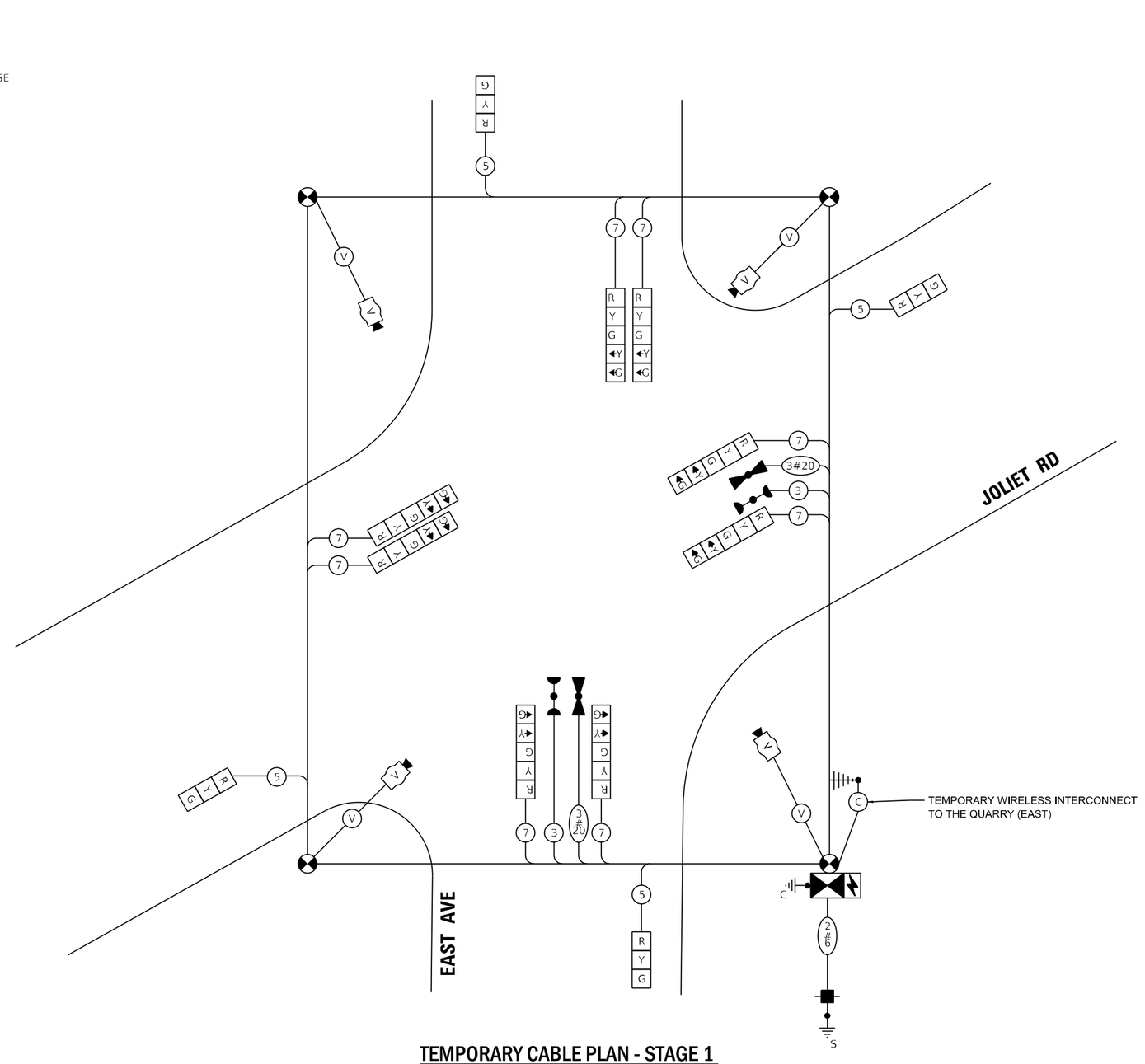
TRAFFIC SIGNAL
ELECTRICAL SERVICE REQUIREMENTS - STAGE 1

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	11	50	66.0
(YELLOW)	12	20	5	12.0
(GREEN)	12	12	45	64.8
PERMISSIVE ARROW	16	10	10	16.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
			TOTAL =	433.8

ENERGY COSTS TO:

VILLAGE OF HODGKINS
8990 LYONS STREET
HODGKINS, IL 60525

ENERGY SUPPLY: CONTACT: ILYAS MOHIUDDIN
PHONE: 708-235-2692
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER: ---



TEMPORARY CABLE PLAN - STAGE 1

NOT TO SCALE

TS 5065
EAGLE 2B

TS SHT NO. 11

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Accurate GROUP, INC.

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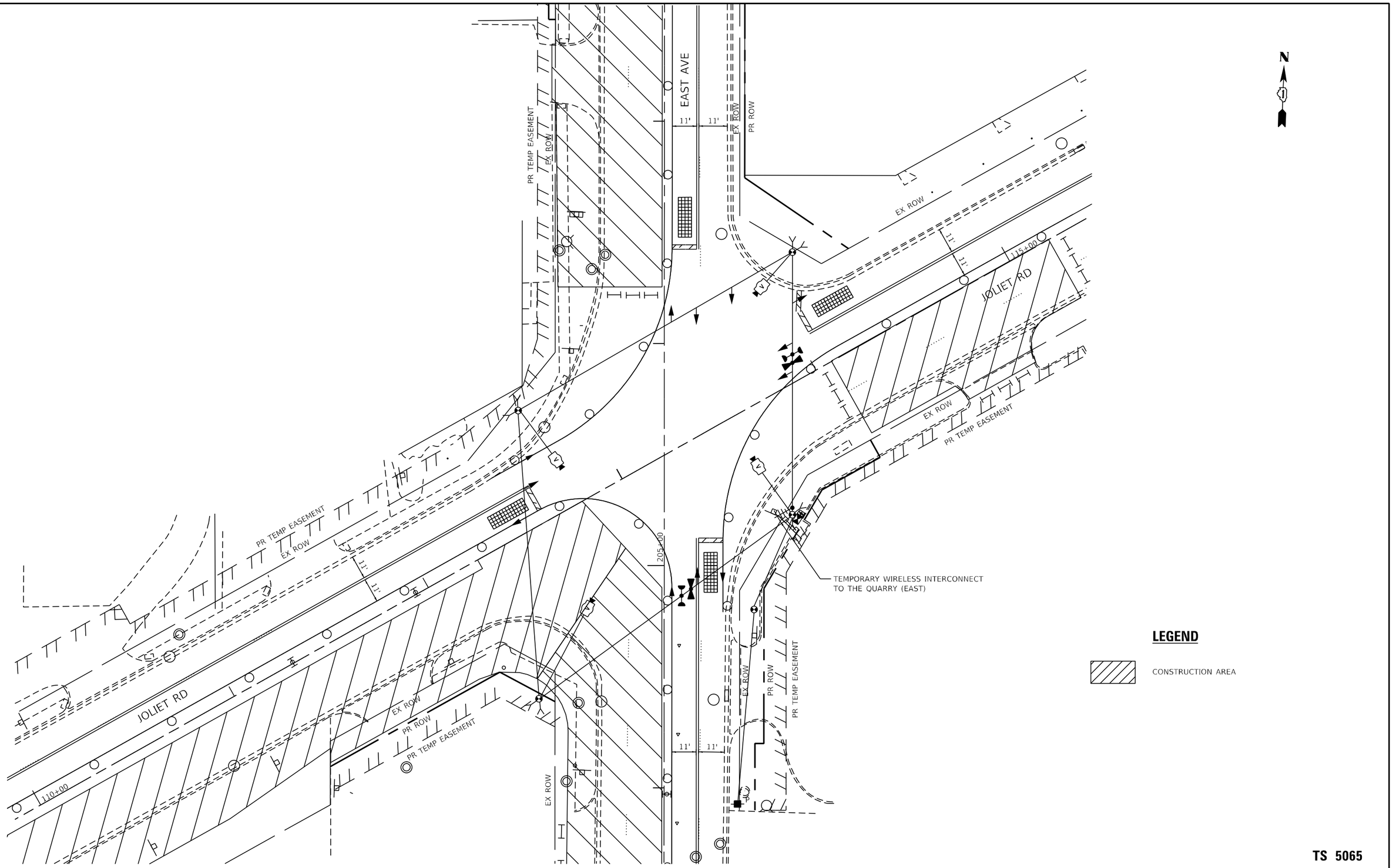
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CABLE PLAN - STAGE 1
EAST AVE AT JOLIET RD
EAST AVENUE (55TH ST TO JOLIET RD)

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	426	218
		CONTRACT NO. 62C25		
	ILLINOIS FED. AID PROJECT			



TS 5065
EAGLE 2B

TS SHT NO. 12

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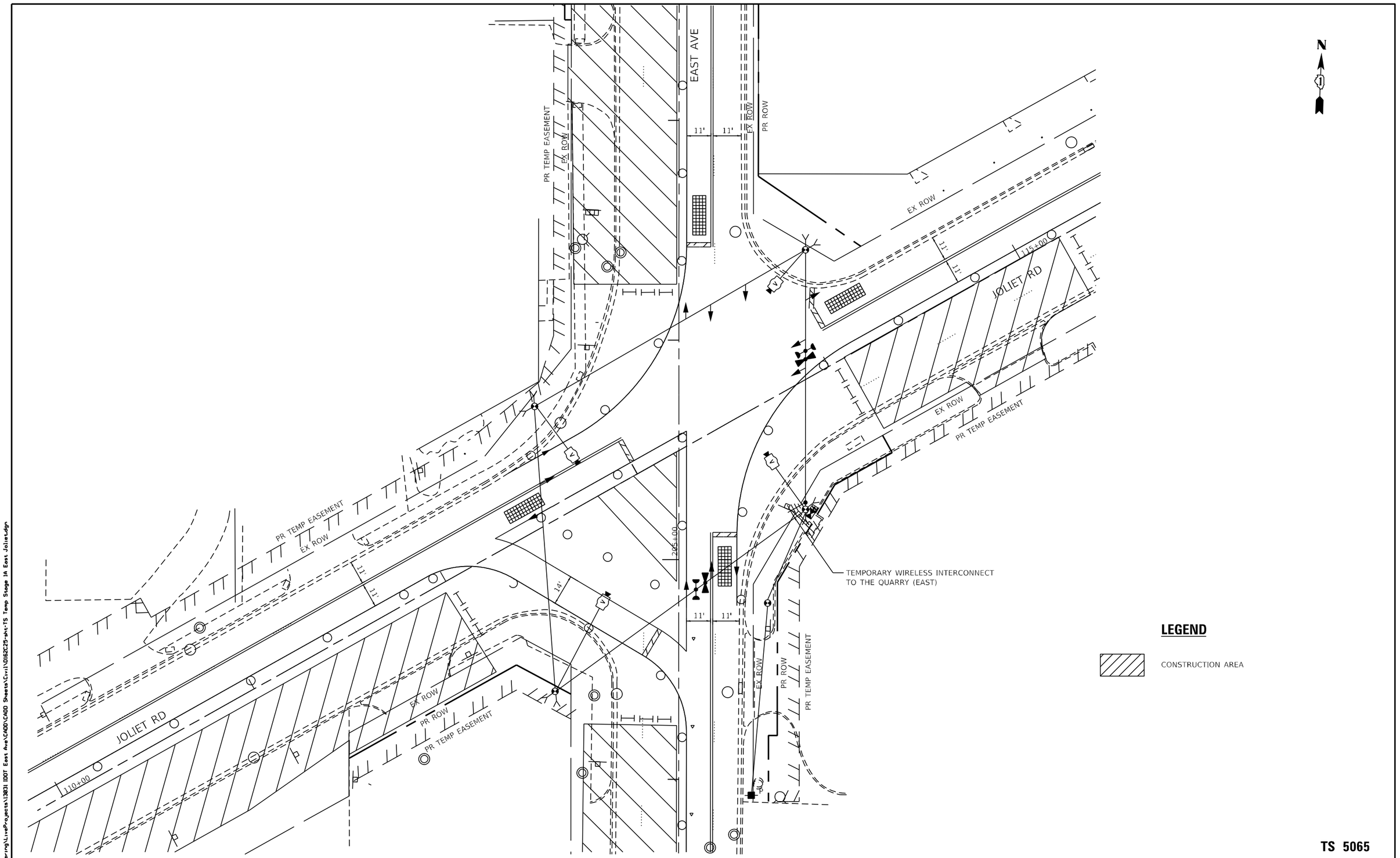
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 2
EAST AVE AT JOLIET RD
EAST AVENUE (55TH ST TO JOLIET RD)

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	426	219
		CONTRACT NO. 62C25		
		ILLINOIS FED. AID PROJECT		



TS SHT NO. 13

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TS 5065
EAGLE 2B

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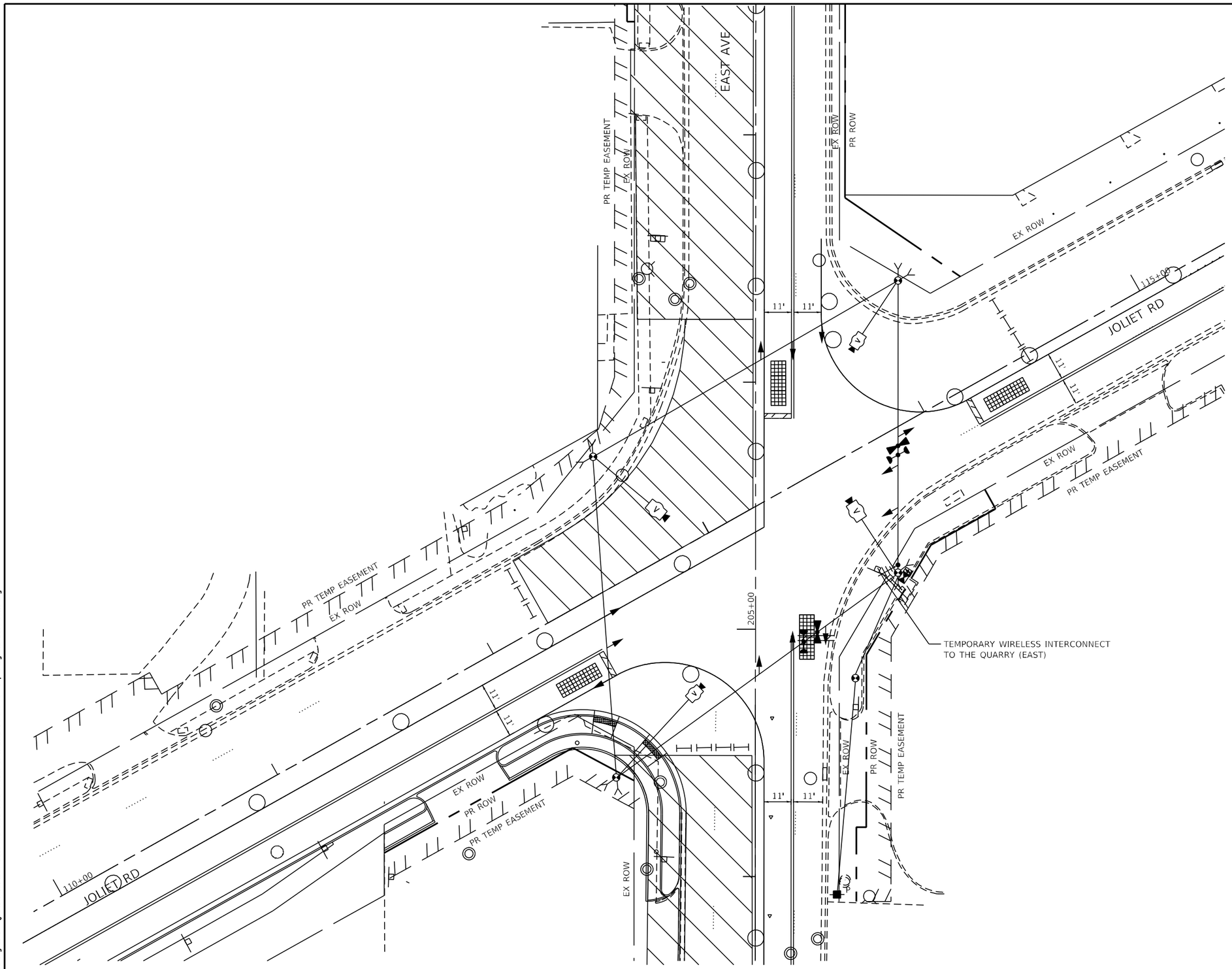
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 2A
EAST AVE AT JOLIET RD
EAST AVENUE (55TH ST TO JOLIET RD)

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	426	220
		CONTRACT NO. 62C25		
	ILLINOIS FED. AID PROJECT			



TS SHT NO. 14

FILE NAME = D:\Engineering\LiveProjects\13031 IDOT East Ave\CADD\C400 Sheets\Civil\0102C25-sht-TS Temp Stage 1B East Joliet.dgn

TS 5065
EAGLE 2B

Accurate GROUP, INC.

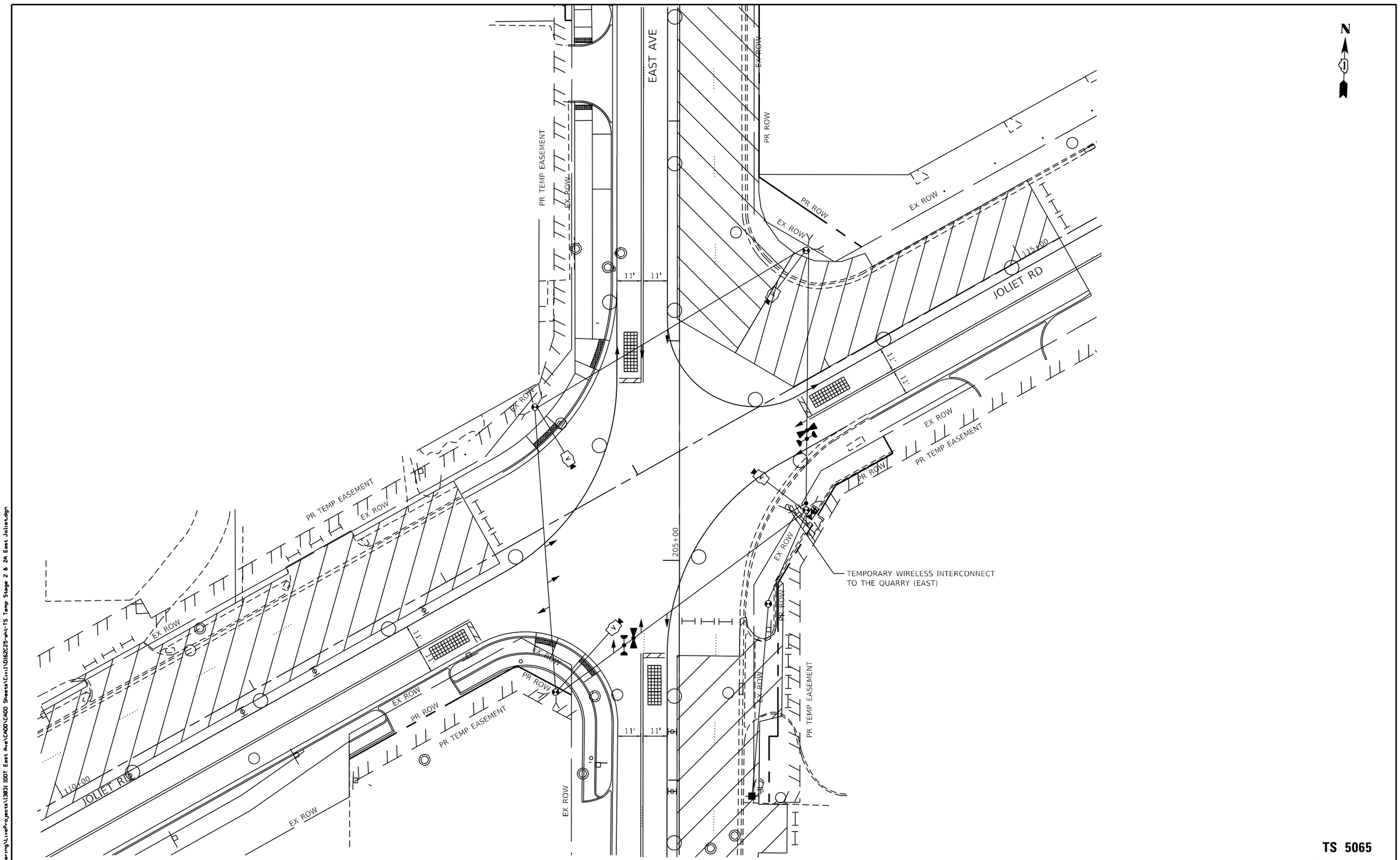
USER NAME = jschumann	DESIGNED - LC	REVISED -
	DRAWN - MS	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - TGM	REVISED -
PLOT DATE = 8/5/2021	DATE - 07/30/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 2B
EAST AVE AT JOLIET RD
EAST AVENUE (55TH ST TO JOLIET RD)

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	426	221
		CONTRACT NO. 62C25		
	ILLINOIS FED. AID PROJECT			



TS SHT NO. 15

FILE NAME = D:\Engineering\LiveProjects\13031 IDOT East Ave\CADD\CADD Sheets\Civil\D1626225-sht-TS Temp Stage 2 & 2A East Joliet.dgn

TS 5065
EAGLE 2B

Accurate GROUP, INC.

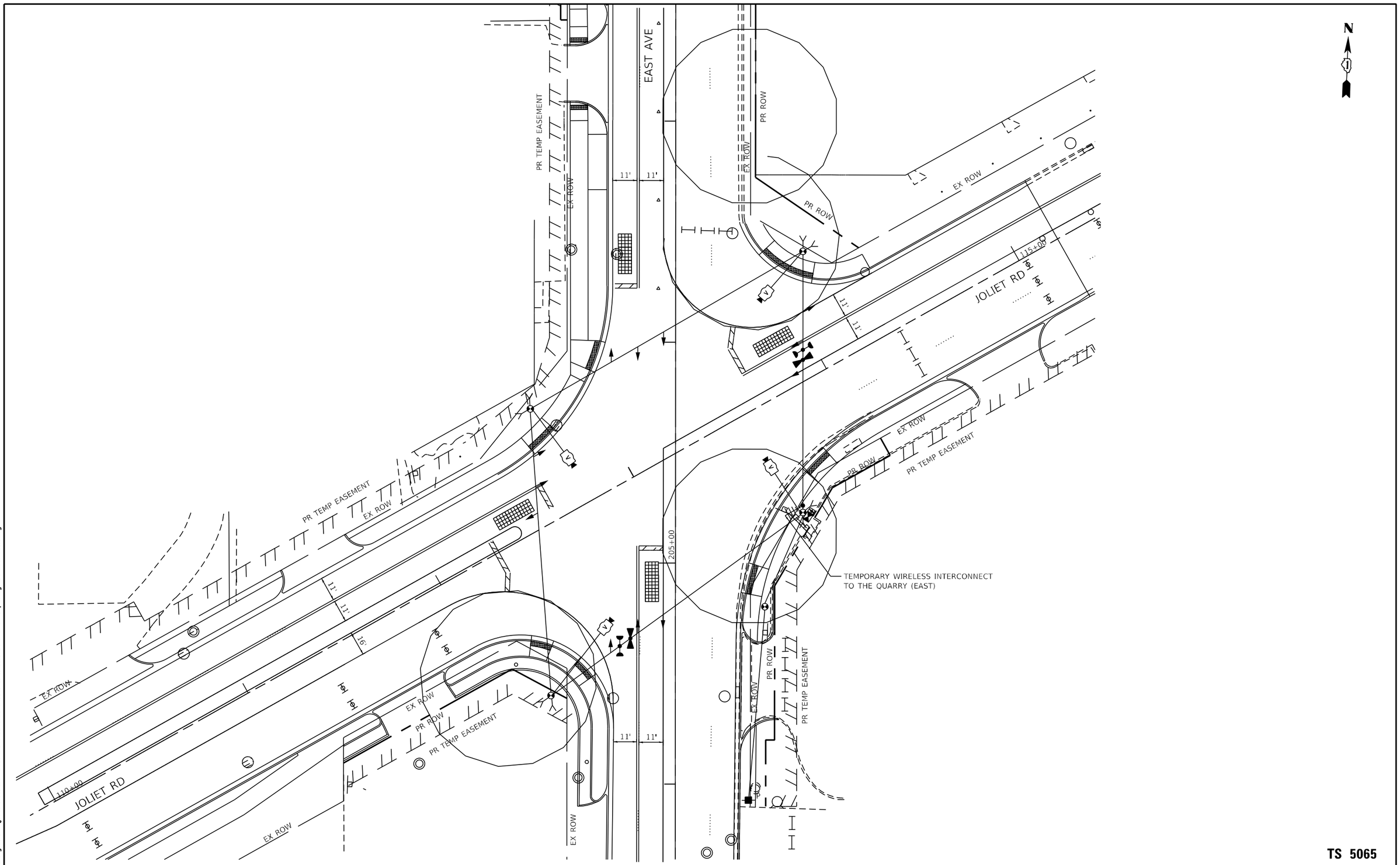
USER NAME = jschumann	DESIGNED - LC	REVISED -
	DRAWN - MS	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - TGM	REVISED -
PLOT DATE = 8/5/2021	DATE - 07/30/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 3 & 3A
EAST AVE AT JOLIET RD
EAST AVENUE (55TH ST TO JOLIET RD)

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	426	222
		CONTRACT NO. 62C25		
	ILLINOIS FED. AID PROJECT			



TS SHT NO. 16

FILE NAME = D:\Engineering\LiveProjects\13021 IDOT East Ave\CADD\CADD Sheets\Civil\D1622C25-sht-TS Temp Stage 2B East Joliet.dgn

TS 5065
EAGLE 2B

Accurate GROUP, INC.

USER NAME = jschumann	DESIGNED - LC	REVISED -
	DRAWN - MS	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - TGM	REVISED -
PLOT DATE = 8/5/2021	DATE - 07/30/2021	REVISED -

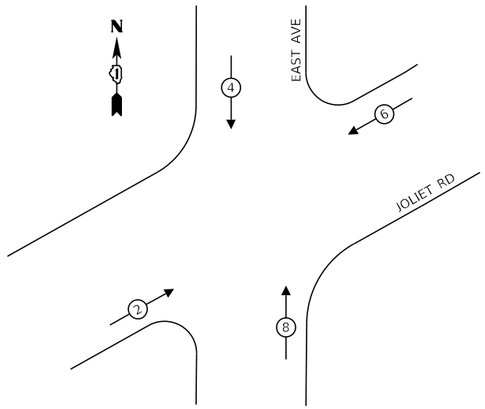
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 3B
EAST AVE AT JOLIET RD
EAST AVENUE (55TH ST TO JOLIET RD)

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	426	223
		CONTRACT NO. 62C25		
	ILLINOIS FED. AID PROJECT			

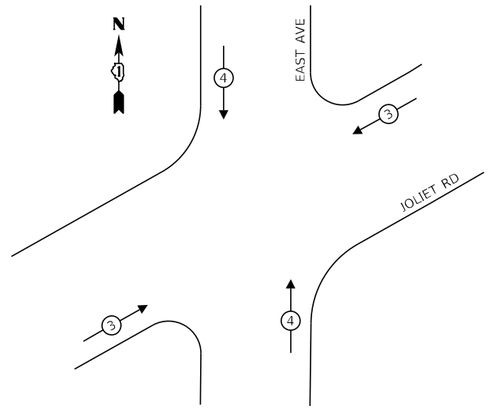
TEMPORARY CONTROLLER SEQUENCE - STAGES 2, 2A, 2B, 3, 3A & 3B



LEGEND:

- PROTECTED PHASE
- PROTECTED/PERMITTED PHASE
- PEDESTRIAN PHASE
- OL OVERLAP
- * NUMBER REFERS TO ASSOCIATED PHASE

TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE - STAGES 2, 2A, 2B, 3, 3A & 3B



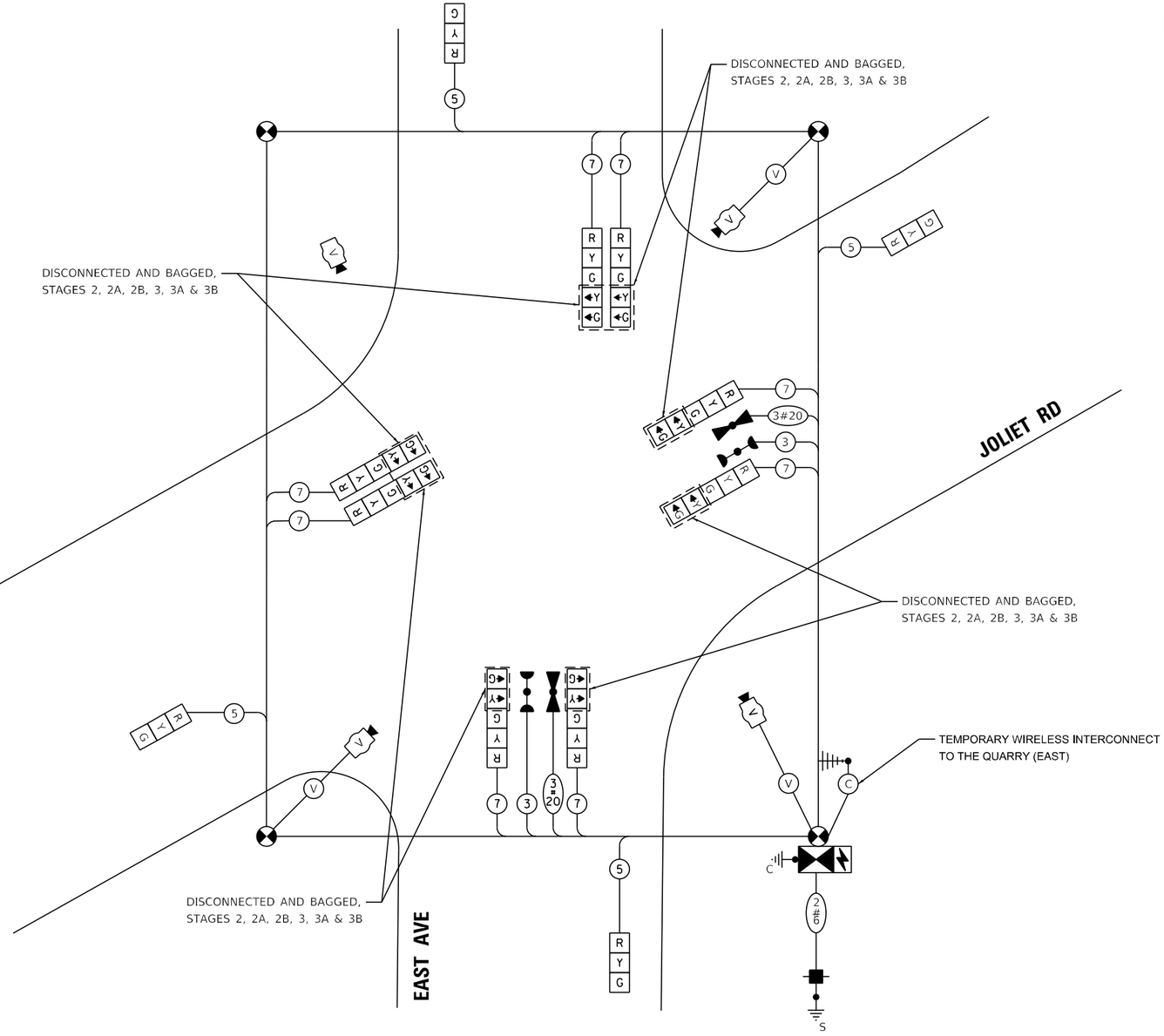
TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS - TEMPORARY

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	11	50	66.0
(YELLOW)	12	20	5	12.0
(GREEN)	12	12	45	64.8
PERMISSIVE ARROW	0	0	0	0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
			TOTAL =	417.8

ENERGY COSTS TO:

VILLAGE OF HODGKINS
8990 LYONS STREET
HODGKINS, IL 60525

ENERGY SUPPLY: CONTACT: ILYAS MOHIUDDIN
PHONE: 708-235-2692
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER: ---



TEMPORARY CABLE PLAN - STAGES 2, 2A, 2B, 3, 3A & 3B

NOT TO SCALE

TS 5065
EAGLE 2B

TS SHEET NO. 17

FILE NAME = D:\Engineering\LiveProjects\13831 IDOT East Ave\CADD\CADD Sheets\Civil\D1622Z5-sht-ts tempdesg East Joliet Stage 1A 1B 2 2A.dgn

Accurate GROUP, INC.

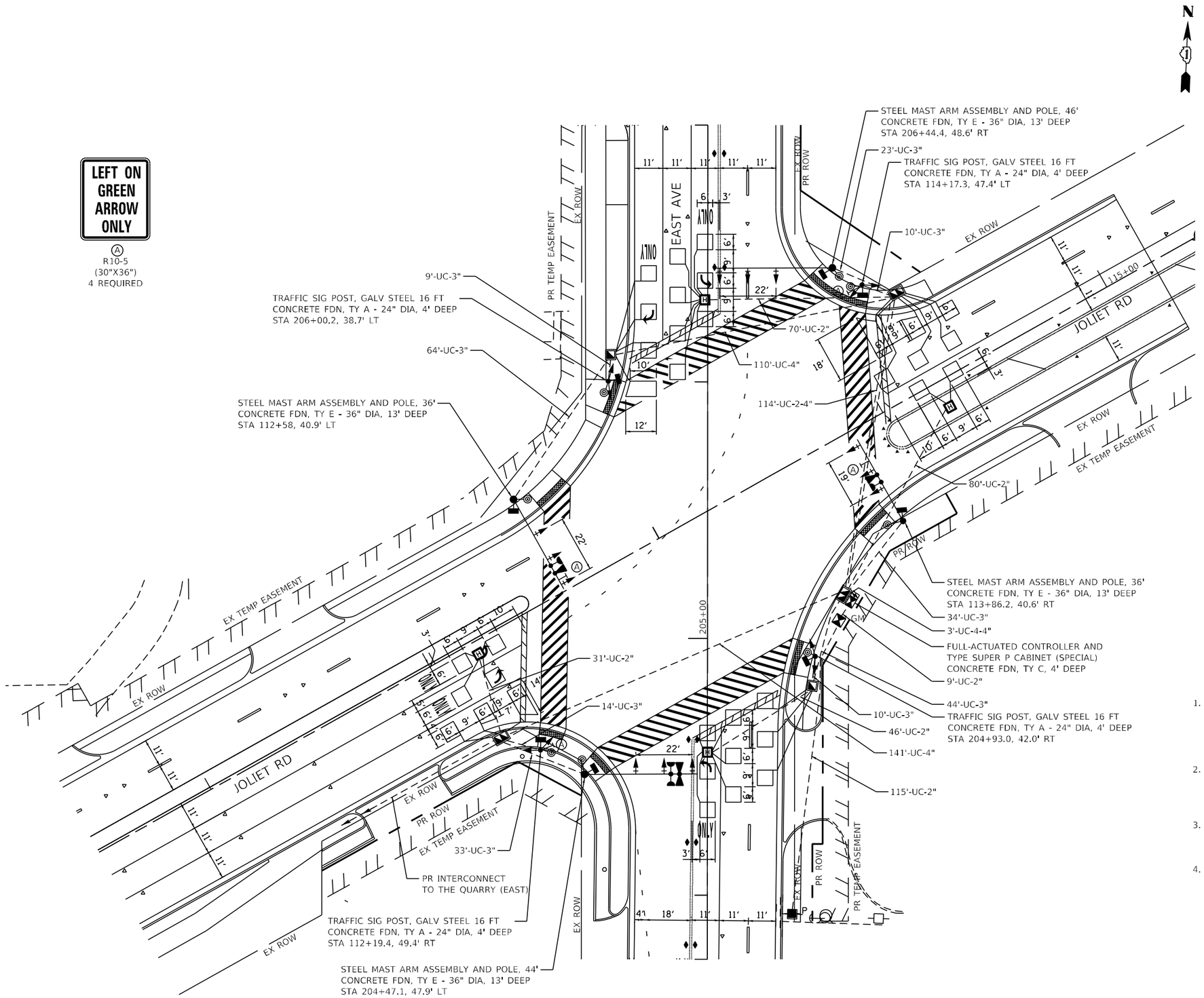
USER NAME = jschumann	DESIGNED - LC	REVISED -	
	DRAWN - MS	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - TGM	REVISED -	
PLOT DATE = 8/5/2021	DATE - 07/30/2021	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CABLE PLAN - STAGES 2, 2A, 2B, 3, 3A & 3B
EAST AVE AT JOLIET RD
EAST AVENUE (55TH ST TO JOLIET RD)

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	426	224
		CONTRACT NO. 62C25		
		ILLINOIS FED. AID PROJECT		



LEFT ON GREEN ARROW ONLY

Ⓐ
R10-5
(30"X36")
4 REQUIRED

NOTES:

1. THE CONTRACTOR SHALL CHECK THE PROPOSED TRAFFIC SIGNAL EQUIPMENT LOCATIONS FOR OVERHEAD UTILITY CONFLICTS. THE CONTRACTOR SHALL COORDINATE ANY CONFLICTS WITH THE UTILITY COMPANIES AND THE RESIDENT ENGINEER BEFORE ORDERING MATERIALS.
2. EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND AS STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.
3. THE CONTRACTOR SHALL CONTACT THE PLEASANTVIEW FIRE PROTECTION DISTRICT AT 708-352-9229 TO VERIFY THE BRAND OF EMERGENCY VEHICLE PREEMPTION EQUIPMENT REQUIRED.
4. ALL STATION AND OFFSET CALLOUTS FOR NEW EQUIPMENT ARE APPROXIMATE.

TS 5065
EAGLE 2B

TS SHT NO. 18

FILE NAME = D:\Engineering\LivaProjects\13031 IDOT East Ave\CADD\CADD Sheets\Civil\D182C25-sht-Prop15-East Joliet.dgn

Accurate GROUP, INC.

USER NAME = jschumann	DESIGNED - LC	REVISED -	
	DRAWN - MS	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - TGM	REVISED -	
PLOT DATE = 8/5/2021	DATE - 07/30/2021	REVISED -	

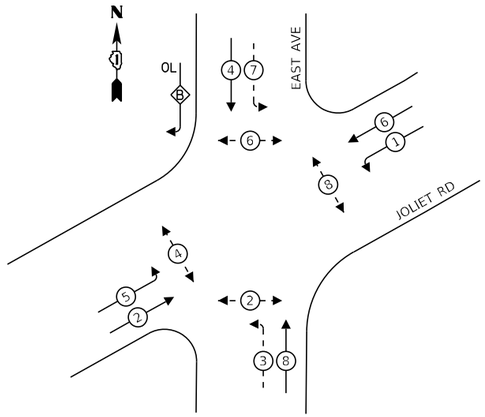
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL INSTALLATION PLAN
EAST AVE AT JOLIET RD
EAST AVENUE (55TH ST TO JOLIET RD)

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	426	225
		CONTRACT NO. 62C25		
		ILLINOIS FED. AID PROJECT		

PROPOSED CONTROLLER SEQUENCE



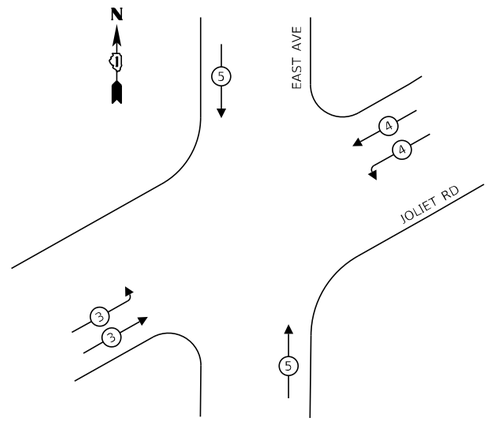
LEGEND:

- PROTECTED PHASE
- PROTECTED/PERMITTED PHASE
- PEDESTRIAN PHASE
- OL — OVERLAP
- ✱ NUMBER REFERS TO ASSOCIATED PHASE

RIGHT TURN OVERLAP PHASE DESIGNATION:

OVERLAP LETTER		PERMISSIVE PHASE		PROTECTED PHASE
B	=	4	+	5

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

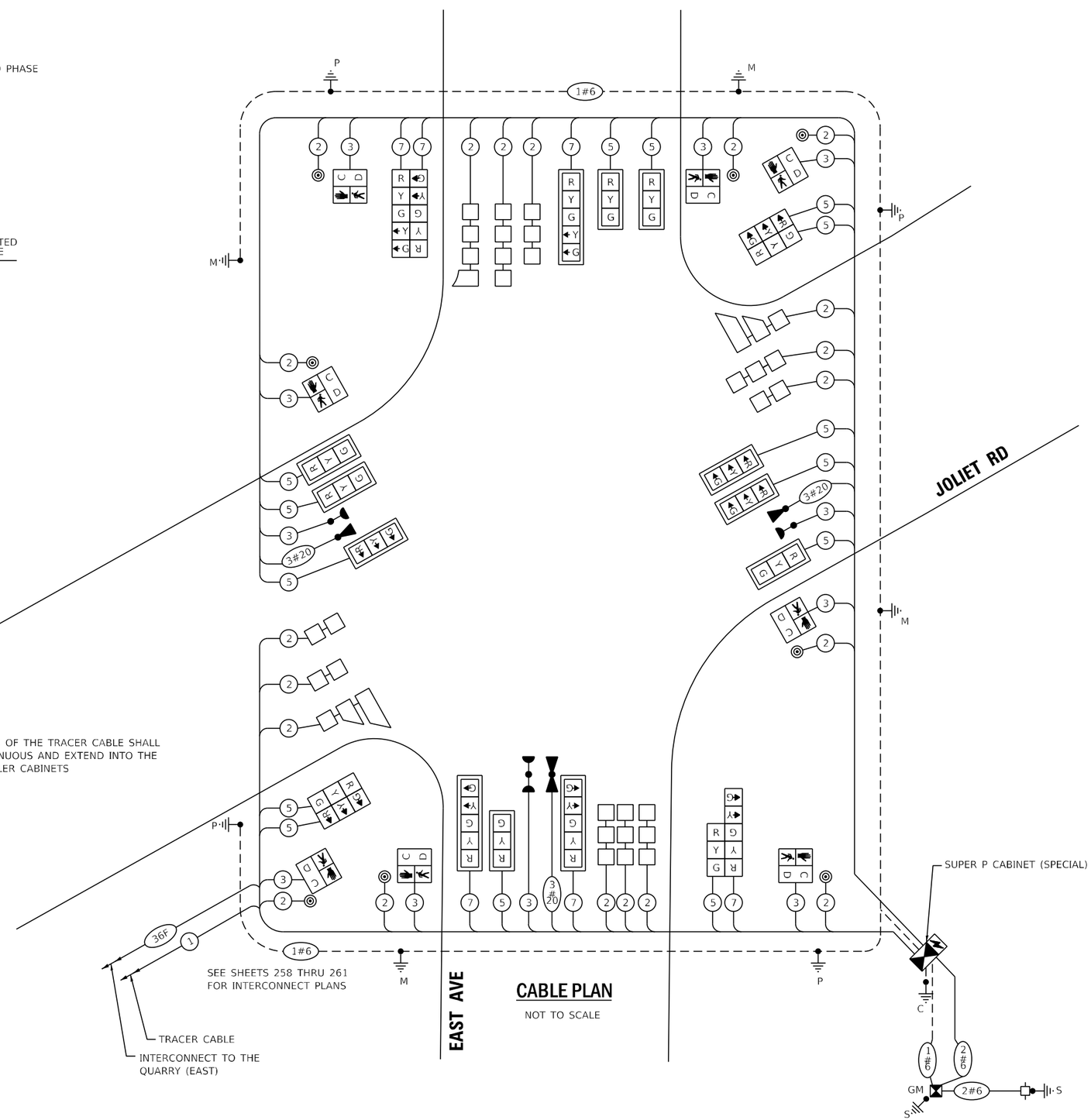
TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	20	11	50	110.0
(YELLOW)	20	20	5	20.0
(GREEN)	20	12	45	108.0
PERMISSIVE ARROW	12	10	10	12
PED. SIGNAL	8	20	100	160
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	-	-	-	-
BLANK-OUT SIGN	-	-	-	-
FLASHER	-	-	-	-
STREET NAME SIGN	-	-	-	-
LUMINAIRE	-	-	-	-
			TOTAL =	535.0

ENERGY COSTS TO:

VILLAGE OF HODGKINS
8990 LYONS STREET
HODGKINS, IL 60525

ENERGY SUPPLY: CONTACT: ILYAS MOHIUDDIN
PHONE: 708-235-2692
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER: ---

THE ENDS OF THE TRACER CABLE SHALL BE CONTINUOUS AND EXTEND INTO THE CONTROLLER CABINETS



CABLE PLAN

NOT TO SCALE

TS 5065
EAGLE 2B

TS SHT NO. 19

FILE NAME = D:\Engineering\LiveProjects\13831 IDOT East Ave\CADD\CADD Sheets\Cru1\D1822Z5-sht-ts propdsg East Joliet.dgn

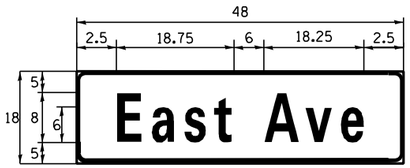
Accurate GROUP, INC.	USER NAME = jschumann	DESIGNED - LC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
		DRAWN - MS	REVISED -	
	PLOT SCALE = 40.0000 ' / in.	CHECKED - TGM	REVISED -	
	PLOT DATE = 8/5/2021	DATE - 07/30/2021	REVISED -	

CABLE PLAN, CONTROLLER SEQUENCE AND EMERGENCY VEHICLE PREEMPTION SEQUENCE - EAST AVE AT JOLIET RD
EAST AVENUE (55TH ST TO JOLIET RD)

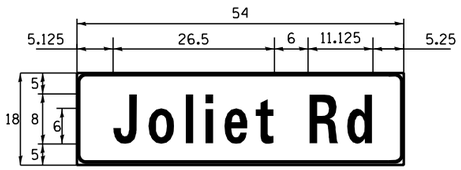
SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	426	226
		CONTRACT NO. 62C25		
		ILLINOIS FED. AID PROJECT		

SIGN PANEL – TYPE 1



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	6	1	ZZ	2



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	6.75	1	ZZ	2

SCHEDULE OF QUANTITIES

	ITEM DESCRIPTION	UNIT	TOTAL QTY
	SIGN PANEL - TYPE 1	SQ FT	55.5
	UNDERGROUND CONDUIT, GALVANIZED STEEL 2" DIA.	FOOT	352
	UNDERGROUND CONDUIT, GALVANIZED STEEL 3" DIA.	FOOT	241
	UNDERGROUND CONDUIT, GALVANIZED STEEL 4" DIA.	FOOT	491
	HANDHOLE	EACH	2
	HEAVY-DUTY HANDHOLE	EACH	4
	DOUBLE HANDHOLE	EACH	3
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1549
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	2354
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	3011
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1448
	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PR	FOOT	2106
	ELECTRIC CABLE IN CONDUIT, SERVICE NO. 6 2C	FOOT	158
	ELECTRIC CABLE IN CONDUIT, EQUIP. GROUNDING CONDUCTOR, NO. 6 1C	FOOT	815
	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FOOT	EACH	4
	STEEL MAST ARM ASSEMBLY AND POLE, 36 FOOT	EACH	2
	STEEL MAST ARM ASSEMBLY AND POLE, 44 FOOT	EACH	1
	STEEL MAST ARM ASSEMBLY AND POLE, 46 FOOT	EACH	1
	CONCRETE FOUNDATION, TYPE A	FOOT	16
	CONCRETE FOUNDATION, TYPE C	FOOT	4
	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	52
	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	9
	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	5
	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	3
	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	3
	PED. SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED W/COUNTDOWN TIMER	EACH	8
	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	12
	INDUCTIVE LOOP DETECTOR	EACH	12
	DETECTOR LOOP, TYPE I	FOOT	1137
*	LIGHT DETECTOR	EACH	3
*	LIGHT DETECTOR AMPLIFIER	EACH	1
	PEDESTRIAN PUSH BUTTON	EACH	8
	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
	REMOVE EXISTING HANDHOLE	EACH	13
	REMOVE EXISTING DOUBLE HANDHOLE	EACH	1
	REMOVE EXISTING CONCRETE FOUNDATION	EACH	9
*	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	752
	FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET (SPECIAL)	EACH	1
	SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
	UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1

* 100% COST TO THE PLEASANTVIEW FIRE PROTECTION DISTRICT

TS SHT NO. 20

FILE NAME = D:\Engineering\LivePrograms\13031 IDOT East Ave\CADD\CADD Sheets\Civil\0102C25-Sht-TS Sigma East Joliet.dgn

TS 5065
EAGLE 2B

Accurate GROUP, INC.

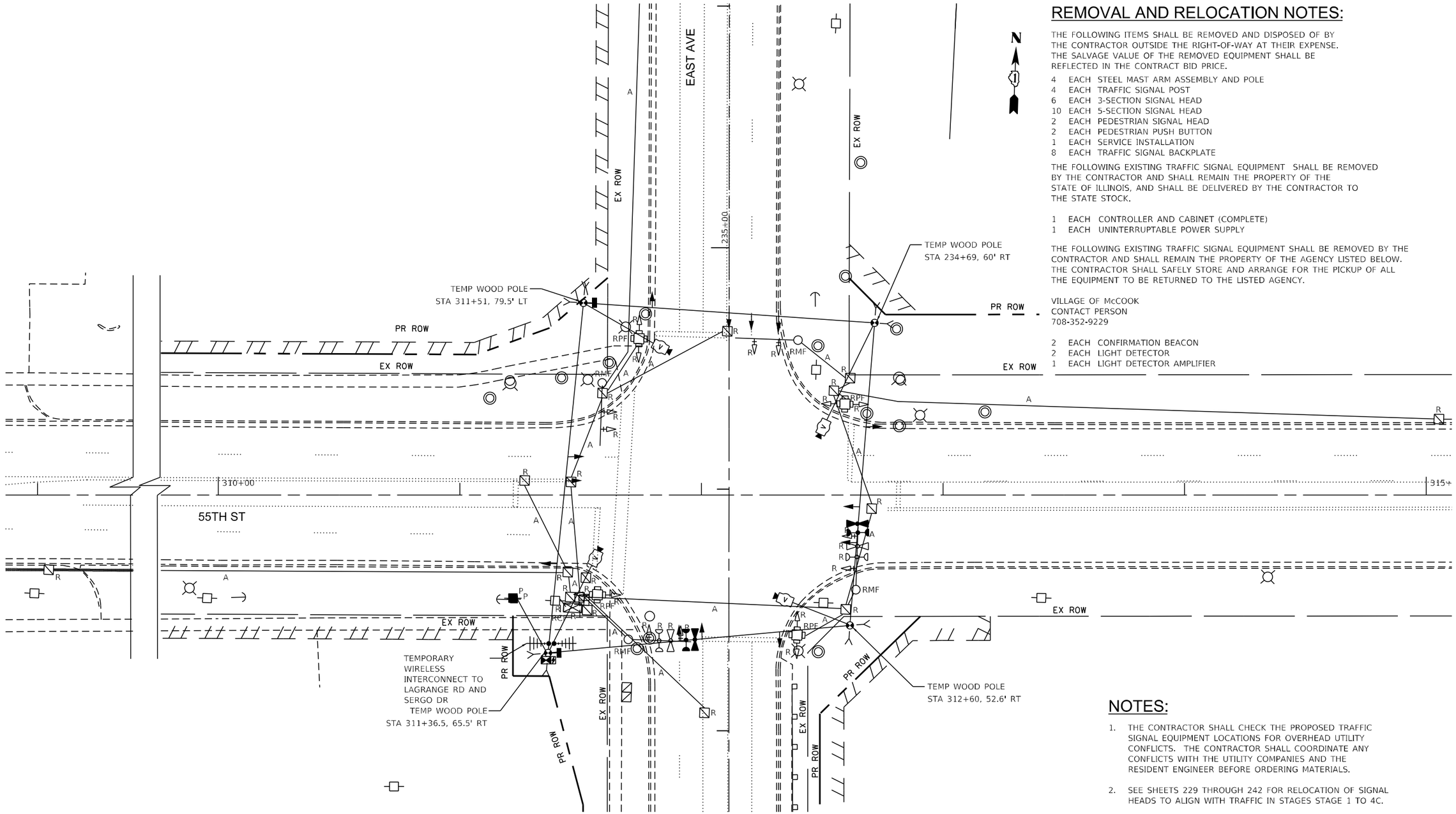
USER NAME = jschumann	DESIGNED - LC	REVISED -	
	DRAWN - MS	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - TGM	REVISED -	
PLOT DATE = 8/5/2021	DATE - 07/30/2021	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAST ARM MOUNTED STREET NAME SIGNS AND
SCHEDULE OF QUANTITIES - EAST AVE AT JOLIET RD
EAST AVENUE (55TH ST TO JOLIET RD)

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	426	227
		CONTRACT NO. 62C25		
	ILLINOIS FED. AID PROJECT			



REMOVAL AND RELOCATION NOTES:

THE FOLLOWING ITEMS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

4 EACH STEEL MAST ARM ASSEMBLY AND POLE
4 EACH TRAFFIC SIGNAL POST
6 EACH 3-SECTION SIGNAL HEAD
10 EACH 5-SECTION SIGNAL HEAD
2 EACH PEDESTRIAN SIGNAL HEAD
2 EACH PEDESTRIAN PUSH BUTTON
1 EACH SERVICE INSTALLATION
8 EACH TRAFFIC SIGNAL BACKPLATE

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE STATE OF ILLINOIS, AND SHALL BE DELIVERED BY THE CONTRACTOR TO THE STATE STOCK.

1 EACH CONTROLLER AND CABINET (COMPLETE)
1 EACH UNINTERRUPTABLE POWER SUPPLY

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE AGENCY LISTED BELOW. THE CONTRACTOR SHALL SAFELY STORE AND ARRANGE FOR THE PICKUP OF ALL THE EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY.

VILLAGE OF McCOOK
CONTACT PERSON
708-352-9229

2 EACH CONFIRMATION BEACON
2 EACH LIGHT DETECTOR
1 EACH LIGHT DETECTOR AMPLIFIER

NOTES:

1. THE CONTRACTOR SHALL CHECK THE PROPOSED TRAFFIC SIGNAL EQUIPMENT LOCATIONS FOR OVERHEAD UTILITY CONFLICTS. THE CONTRACTOR SHALL COORDINATE ANY CONFLICTS WITH THE UTILITY COMPANIES AND THE RESIDENT ENGINEER BEFORE ORDERING MATERIALS.

2. SEE SHEETS 229 THROUGH 242 FOR RELOCATION OF SIGNAL HEADS TO ALIGN WITH TRAFFIC IN STAGES STAGE 1 TO 4C.

TS 3845
EAGLE 2B

TS SHT NO. 21

FILE NAME = D:\Engineering\LivePrOjects\3831 IDOT East Ave\CADD\CADD Sheets\Civil\D1822C25-sht-TS Temp East 55th.dgn

Accurate GROUP, INC.	USER NAME = jschumann	DESIGNED - LC	REVISED -
		DRAWN - MS	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED - TGM	REVISED -
	PLOT DATE = 8/5/2021	DATE - 07/30/2021	REVISED -

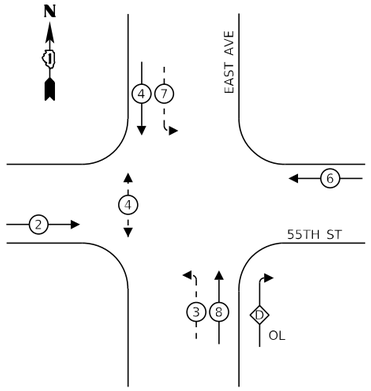
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN AND REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN
EAST AVE AT 55TH ST

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	426	228
		CONTRACT NO. 62C25		
		ILLINOIS FED. AID PROJECT		

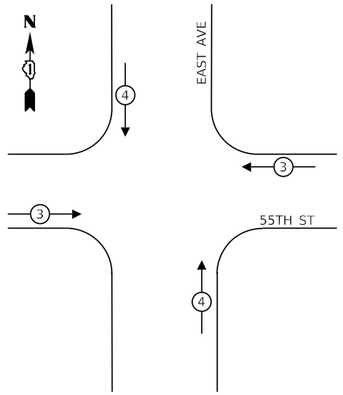
INITIAL TEMPORARY CONTROLLER SEQUENCE



LEGEND:

- PROTECTED PHASE
- PROTECTED/PERMITTED PHASE
- PEDESTRIAN PHASE
- OL OVERLAP
- ✱ NUMBER REFERS TO ASSOCIATED PHASE

INITIAL TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE



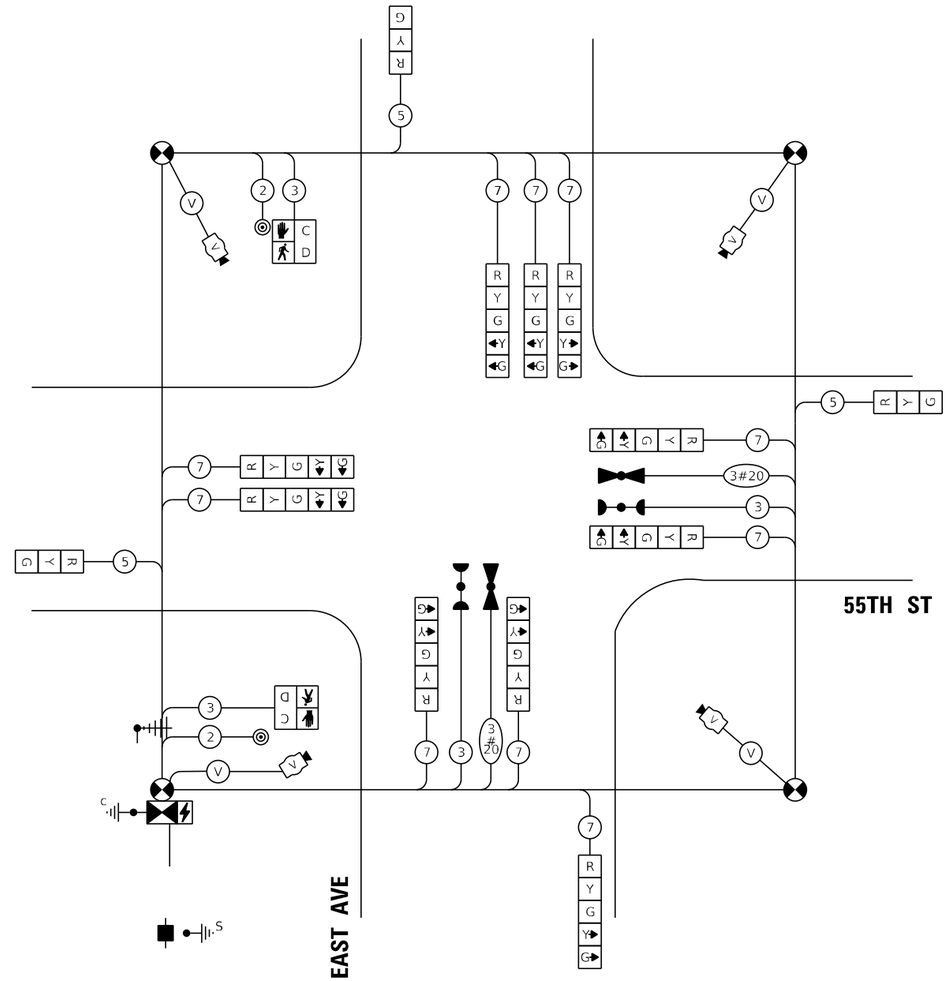
TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	11	50	66.0
(YELLOW)	10	20	5	12.0
(GREEN)	10	12	45	64.8
PERMISSIVE ARROW	20	10	10	20
PED. SIGNAL	2	20	100	40.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
			TOTAL =	477.8

ENERGY COSTS TO:

VILLAGE OF COUNTRYSIDE
5550 EAST AVENUE
COUNTRYSIDE, IL 60525

ENERGY SUPPLY: CONTACT: ILYAS MOHIUDDIN
PHONE: 708-235-2692
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER: ---



INITIAL TEMPORARY TRAFFIC SIGNAL CABLE PLAN

NOT TO SCALE

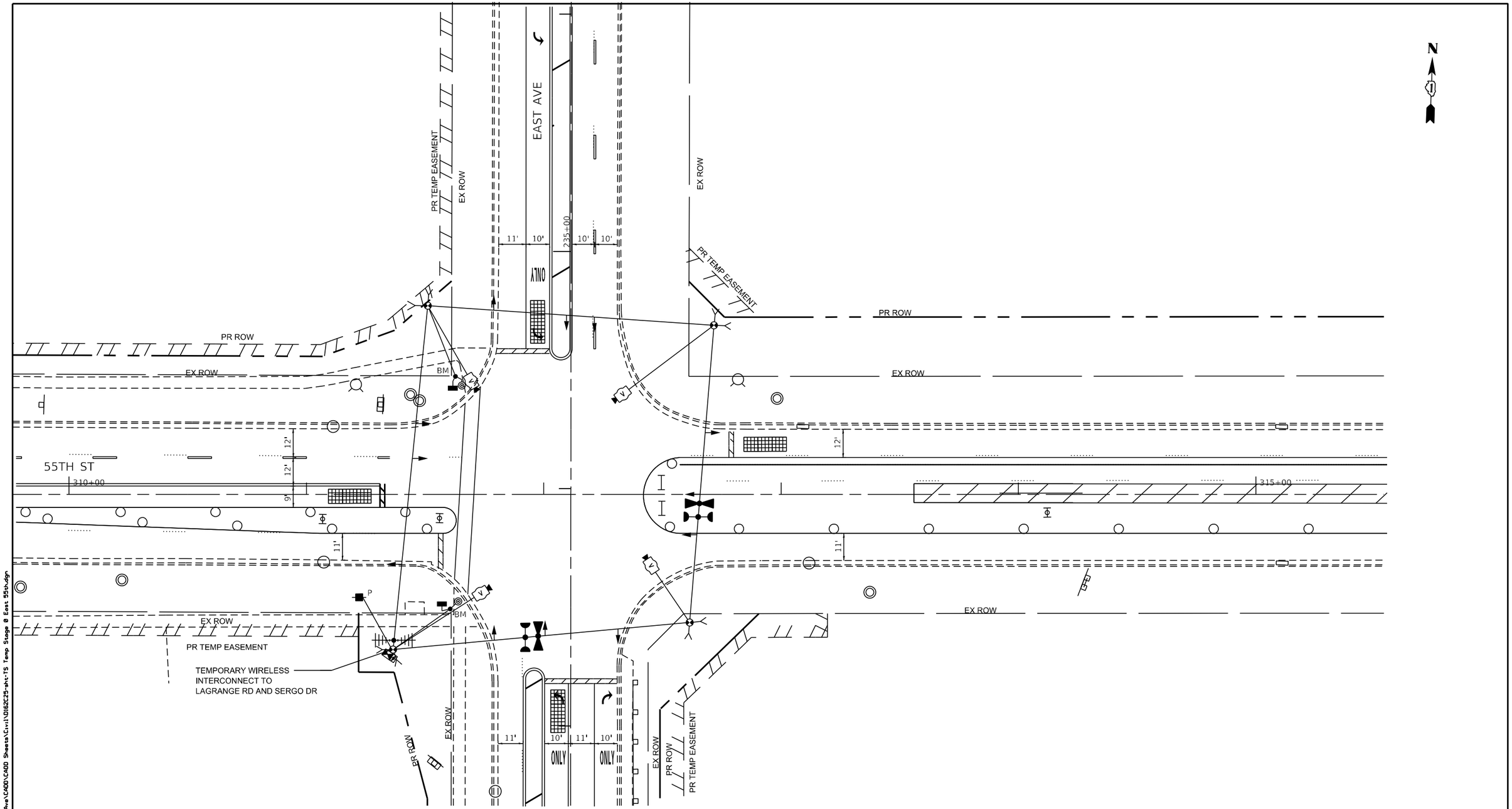
TS 3845
EAGLE 2B

TS SHEET NO. 22

FILE NAME = D:\Engineering\LiveProjects\13831 IDOT East Ave\CADD\CADD Sheets\Civil\D1622Z5-sht-ts tempdsg East 55th - Initial Plan.dgn

Accurate GROUP, INC.	USER NAME = jschumann	DESIGNED - LC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY TRAFFIC SIGNAL CABLE PLAN - INITIAL EAST AVE AT 55TH ST EAST AVENUE (55TH ST TO JOLIET RD)
		DRAWN - MS	REVISED -		
	PLOT SCALE = 40.0000 ' / in.	CHECKED - TGM	REVISED -		
	PLOT DATE = 8/5/2021	DATE - 07/30/2021	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	426	229
		CONTRACT NO. 62C25		
		ILLINOIS FED. AID PROJECT		



TS SHT NO. 23

FILE NAME = D:\Engineering\LiveProjects\13831 IDOT East Ave\CADD\CADD Sheets\Civil\01E2C25-sht-TS Temp Stage 0 East 55th.dgn

TS 3845
EAGLE 2B

Accurate GROUP, INC.

USER NAME = jschumann	DESIGNED - LC	REVISED -	
	DRAWN - MS	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - TGM	REVISED -	
PLOT DATE = 8/5/2021	DATE - 07/30/2021	REVISED -	

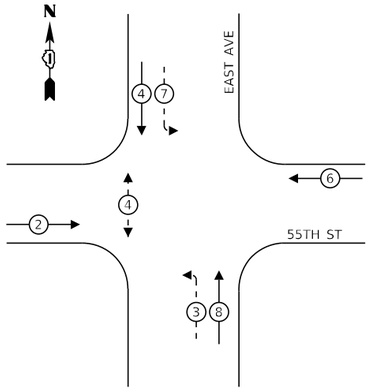
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 1
EAST AVE AT 55TH ST
EAST AVENUE (55TH ST TO JOLIET RD)

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	426	230
		CONTRACT NO. 62C25		
	ILLINOIS FED. AID PROJECT			

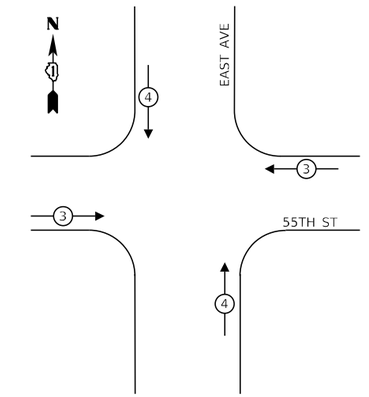
TEMPORARY CONTROLLER SEQUENCE – STAGE 1



LEGEND:

- PROTECTED PHASE
- PROTECTED/PERMITTED PHASE
- PEDESTRIAN PHASE
- OL — OVERLAP
- ✱ NUMBER REFERS TO ASSOCIATED PHASE

TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE – STAGE 1



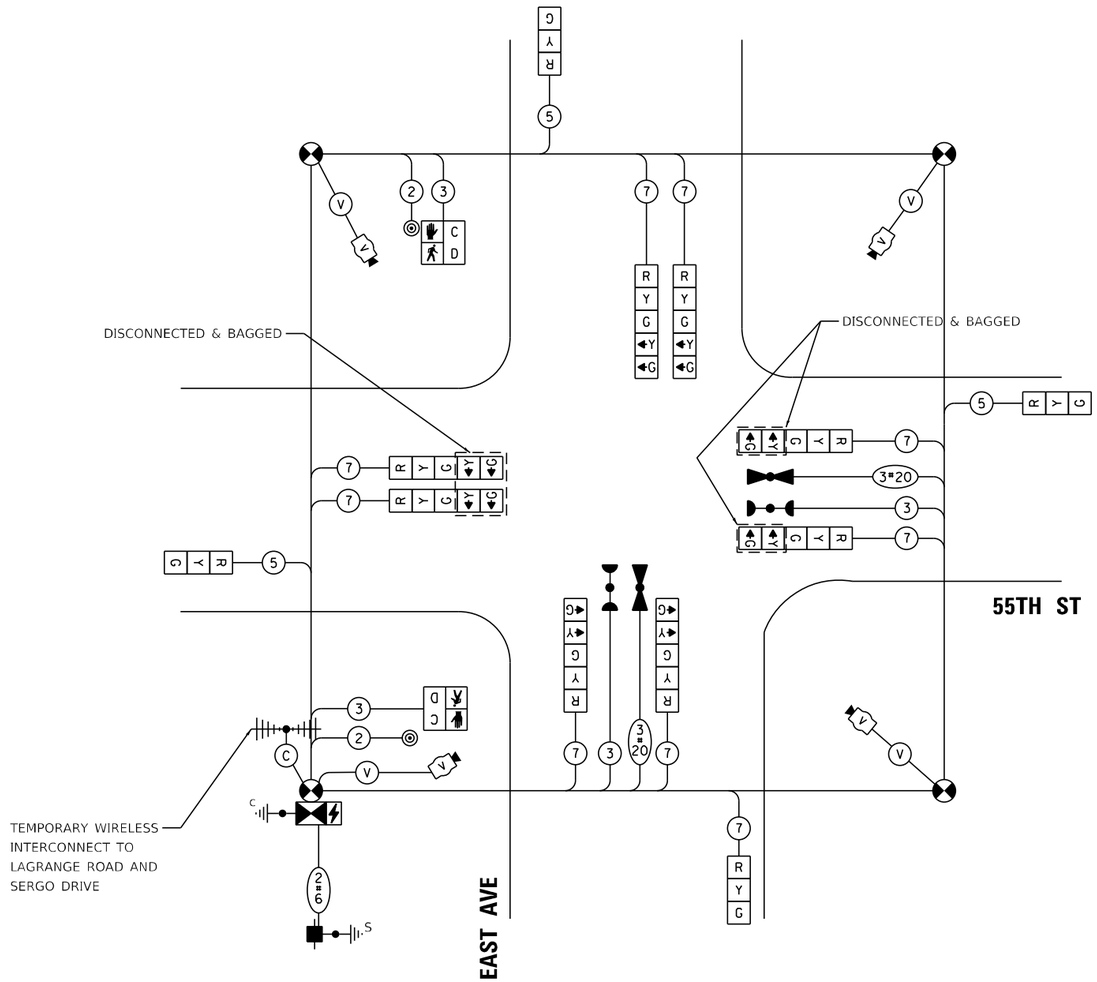
TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	11	50	66.0
(YELLOW)	10	20	5	12.0
(GREEN)	10	12	45	64.8
PERMISSIVE ARROW		10	10	16.0
PED. SIGNAL	2	20	100	40.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
			TOTAL =	473.8

ENERGY COSTS TO:

VILLAGE OF COUNTRYSIDE
5550 EAST AVENUE
COUNTRYSIDE, IL 60525

ENERGY SUPPLY: CONTACT: ILYAS MOHIUDDIN
PHONE: 708-235-2692
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER: ---



TEMPORARY TRAFFIC SIGNAL CABLE PLAN – STAGE 1

NOT TO SCALE

TS SHEET NO. 24

TS 3845
EAGLE 2B

FILE NAME = D:\Engineering\LivePrograms\13831 IDOT East Ave\CADD\CADD Sheets\Civil\D1826225-sht-ts tempdisg East 55th - Stage 0.dgn

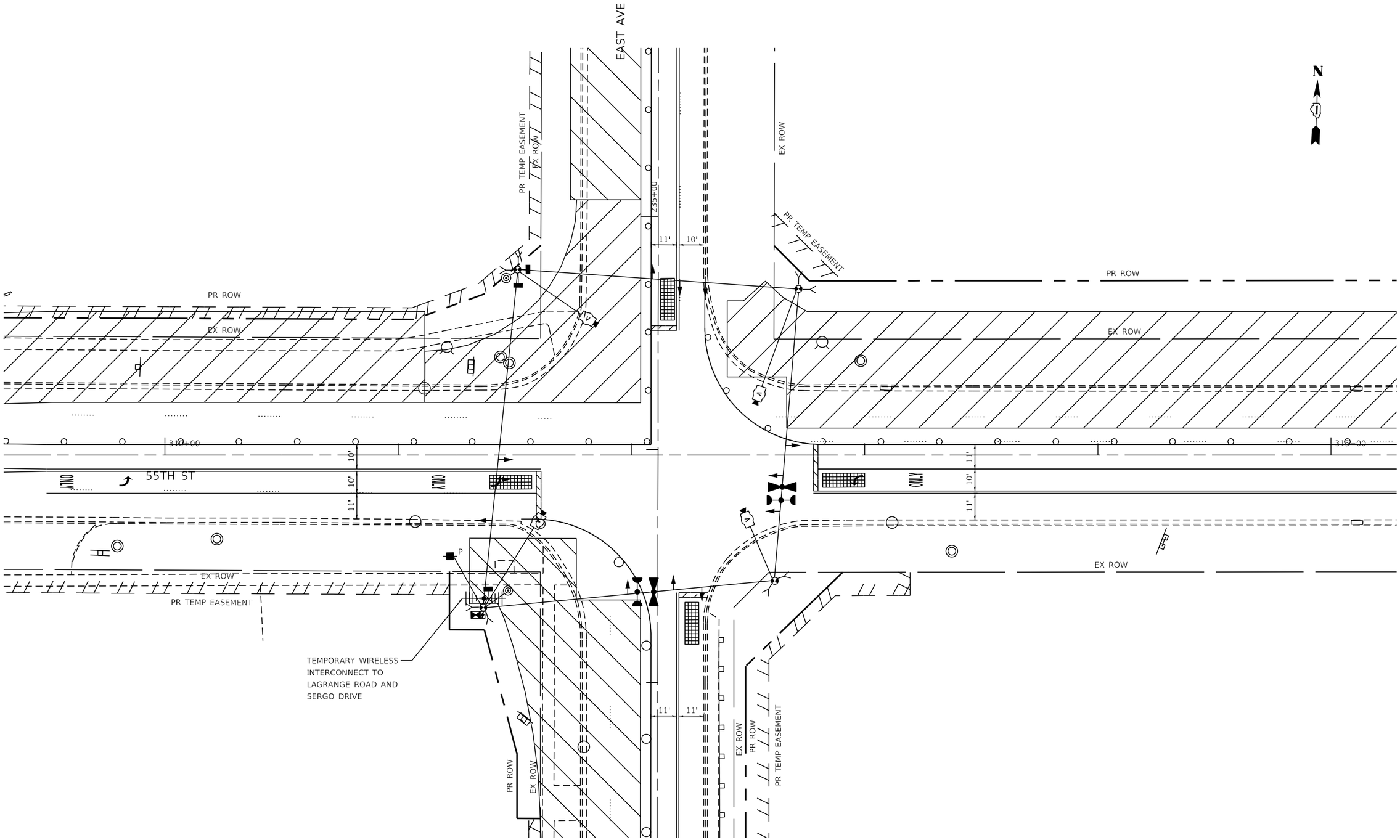
Accurate GROUP, INC.	USER NAME = jschumann	DESIGNED - LC	REVISED -
		DRAWN - LC	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED - TM	REVISED -
	PLOT DATE = 8/5/2021	DATE - 07/30/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL CABLE PLAN - STAGE 1
EAST AVENUE (55TH ST TO JOLIET RD)

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	426	231
		CONTRACT NO. 62C25		
	ILLINOIS FED. AID PROJECT			



TS SHT NO. 25

TS 3845
EAGLE 2B

FILE NAME = D:\Engineering\LiveProjects\13831 IDOT East Ave\CADD\CADD Sheets\Civil\D1B2225-sht-TS Temp Stage 1 1A East 55th.dgn

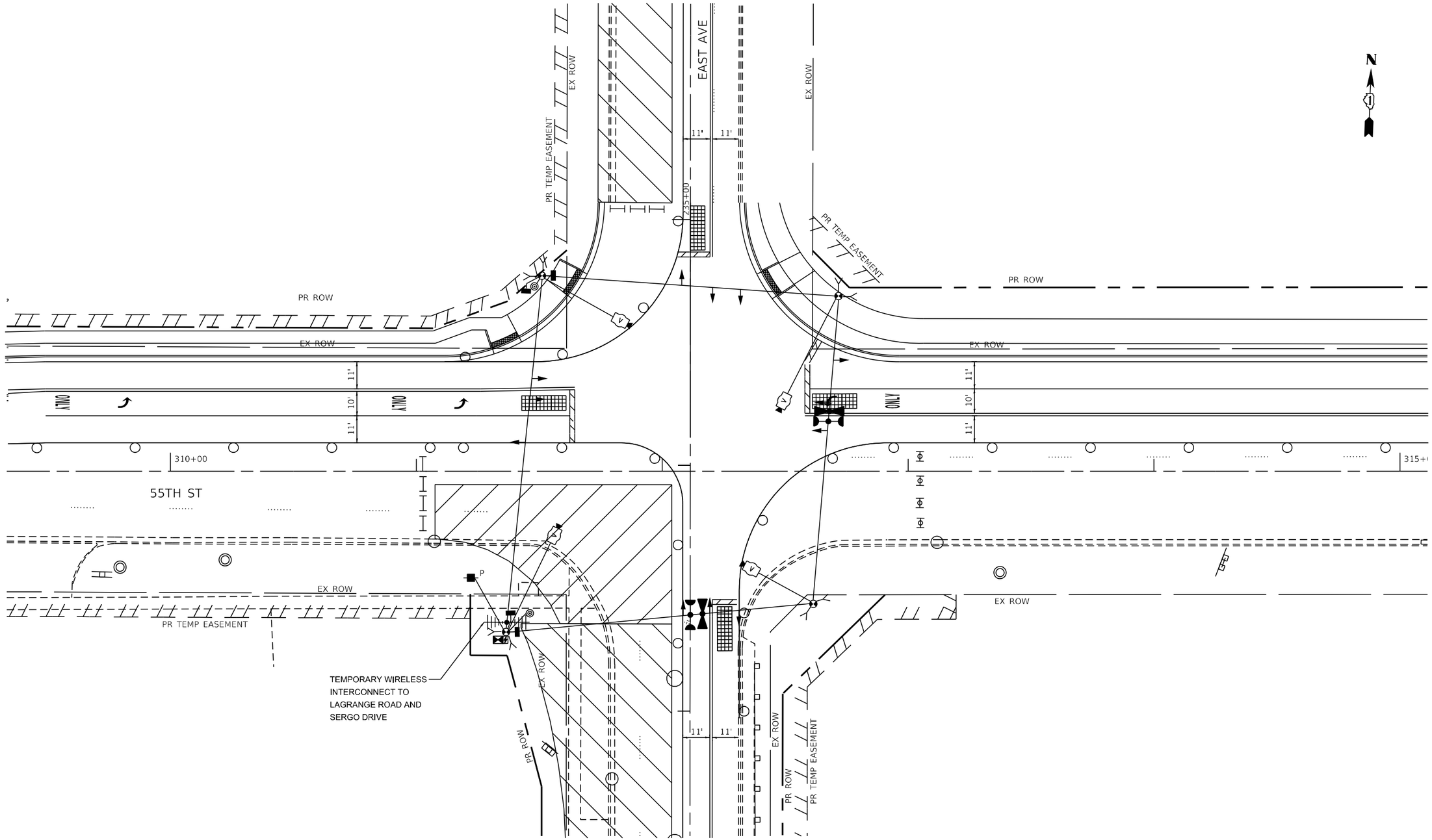
Accurate GROUP, INC.	USER NAME = jschumann	DESIGNED - LC	REVISED -
		DRAWN - MS	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED - TGM	REVISED -
	PLOT DATE = 8/5/2021	DATE - 07/30/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL PLAN - STAGES 2 & 2A
EAST AVE AT 55TH ST
EAST AVENUE (55TH ST TO JOLIET RD)

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	426	232
		CONTRACT NO. 62C25		
		ILLINOIS FED. AID PROJECT		



TS 3845
EAGLE 2B

TS SHT NO. 26

FILE NAME = D:\Engineering\LiveProjects\13031 IDOT East Ave\CADD\CADD Sheets\Civil\D62C25-sht-TS Temp Stage 1B East 55th.dgn

Accurate GROUP, INC.

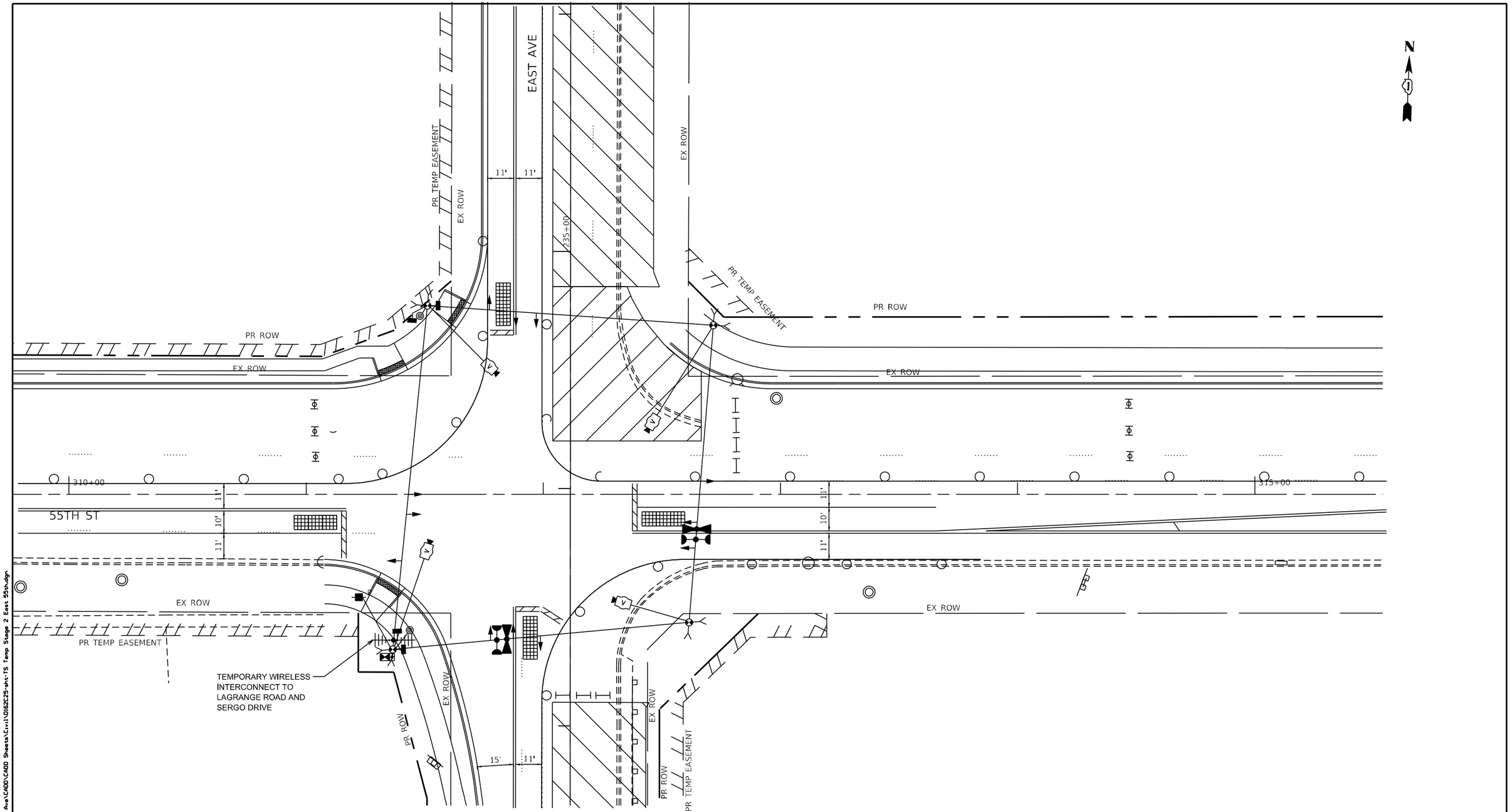
USER NAME = jschumann	DESIGNED - LC	REVISED -
	DRAWN - MS	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - TGM	REVISED -
PLOT DATE = 8/5/2021	DATE - 07/30/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 2B
EAST AVE AT 55TH ST
EAST AVENUE (55TH ST TO JOLIET RD)

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	426	233
		CONTRACT NO. 62C25		
		ILLINOIS FED. AID PROJECT		



TS SHT NO. 27

TS 3845
EAGLE 2B

FILE NAME = D:\Engineering\LiveProjects\13031 IDOT East Ave\C4DD\C4DD Sheets\Civil\D102C25-sht-TS Temp Stage 2 East 55th.dgn

Accurate GROUP, INC.

USER NAME = jschumann	DESIGNED - LC	REVISED -	
	DRAWN - MS	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - TGM	REVISED -	
PLOT DATE = 8/5/2021	DATE - 07/30/2021	REVISED -	

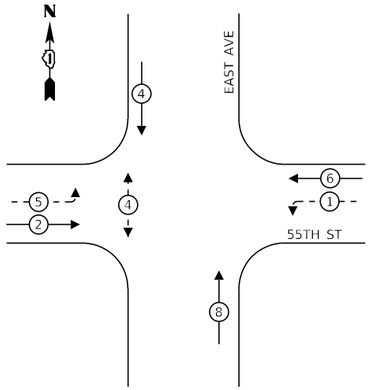
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 3
EAST AVE AT 55TH ST
EAST AVENUE (55TH ST TO JOLIET RD)

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	426	234
		CONTRACT NO. 62C25		
		ILLINOIS FED. AID PROJECT		

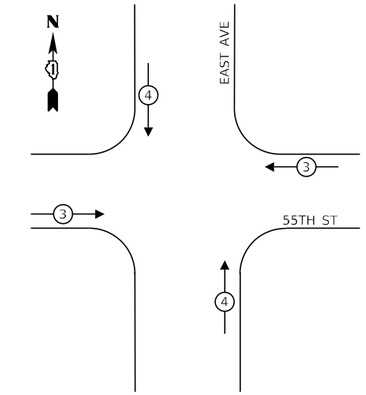
TEMPORARY CONTROLLER SEQUENCE – STAGES 2, 2A, 2B & 3



LEGEND:

- PROTECTED PHASE
- PROTECTED/PERMITTED PHASE
- PEDESTRIAN PHASE
- OL OVERLAP
- ✱ NUMBER REFERS TO ASSOCIATED PHASE

TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE – STAGES 2, 2A, 2B & 3



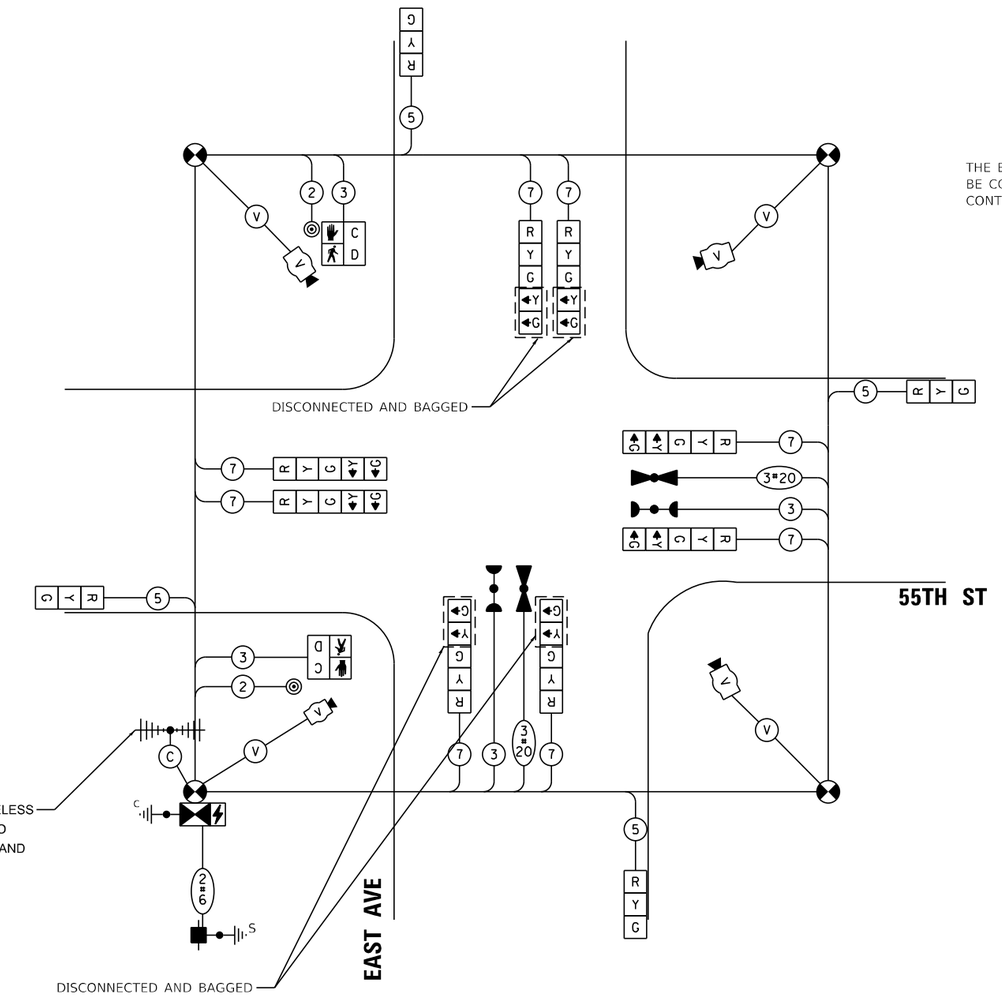
TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	11	50	66.0
(YELLOW)	12	20	5	12.0
(GREEN)	12	12	45	64.8
PERMISSIVE ARROW	16	10	10	16.0
PED. SIGNAL	2	20	100	40.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
			TOTAL =	473.8

ENERGY COSTS TO:

VILLAGE OF COUNTRYSIDE
5550 EAST AVENUE
COUNTRYSIDE, IL 60525

ENERGY SUPPLY: CONTACT: ILYAS MOHIUDDIN
PHONE: 708-235-2692
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER: ---



TEMPORARY TRAFFIC SIGNAL CABLE PLAN – STAGES 2, 2A, 2B & 3

NOT TO SCALE

TS 3845
EAGLE 28

TS SHEET NO. 28

FILE NAME = D:\Engineering\LivePrograms\13031 IDOT East Ave\CADD\CADD Sheets\Civil\D162C25-sht-ts tempdiag East 55th - Stage 1 1A 1B 2.dgn

Accurate GROUP, INC.

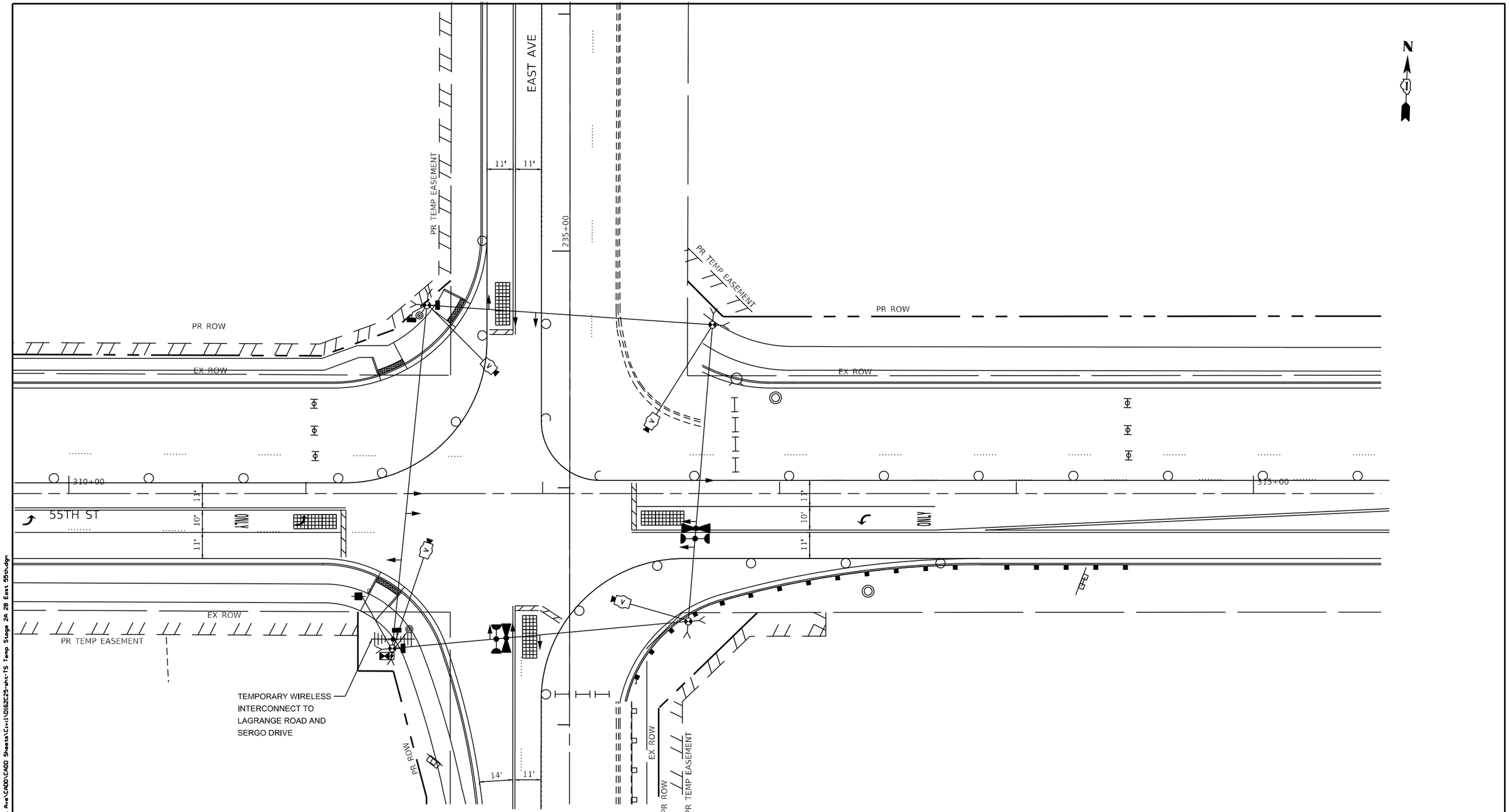
USER NAME = jschumann	DESIGNED - LC	REVISED -
	DRAWN - MS	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - TGM	REVISED -
PLOT DATE = 8/5/2021	DATE - 07/30/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL CABLE PLAN - STAGES 2, 2A, 2B & 3
EAST AVE AT 55TH ST
EAST AVENUE (55TH ST TO JOLIET RD)

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	426	235
		CONTRACT NO. 62C25		
		ILLINOIS FED. AID PROJECT		



TS SHEET NO. 29

TS 3845
EAGLE 2B

FILE NAME = D:\Engineering\LiveProjects\13831 IDOT East Ave\CADD\C4DD Sheets\Civil\D1B2C25-sht-TS Temp Stage 2A 2B East 55th.dgn

Accurate GROUP, INC.

USER NAME = jschumann	DESIGNED - LC	REVISED -	
	DRAWN - MS	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - TGM	REVISED -	
PLOT DATE = 8/5/2021	DATE - 07/30/2021	REVISED -	

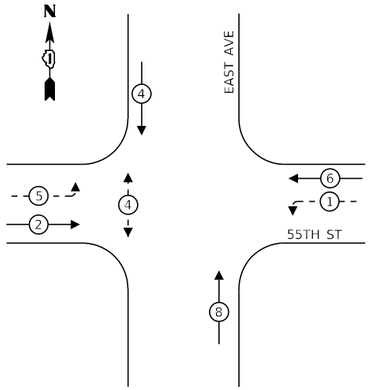
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL PLAN - STAGES 3A & 3B
EAST AVE AT 55TH ST
EAST AVENUE (55TH ST TO JOLIET RD)

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	426	236
		CONTRACT NO. 62C25		
	ILLINOIS FED. AID PROJECT			

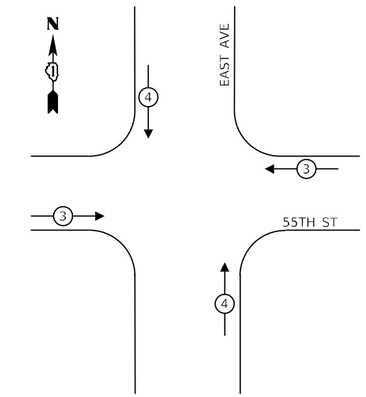
TEMPORARY CONTROLLER SEQUENCE – STAGES 3A & 3B



LEGEND:

- PROTECTED PHASE
- PROTECTED/PERMITTED PHASE
- PEDESTRIAN PHASE
- OL OVERLAP
- ✱ NUMBER REFERS TO ASSOCIATED PHASE

TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE – STAGES 3A & 3B



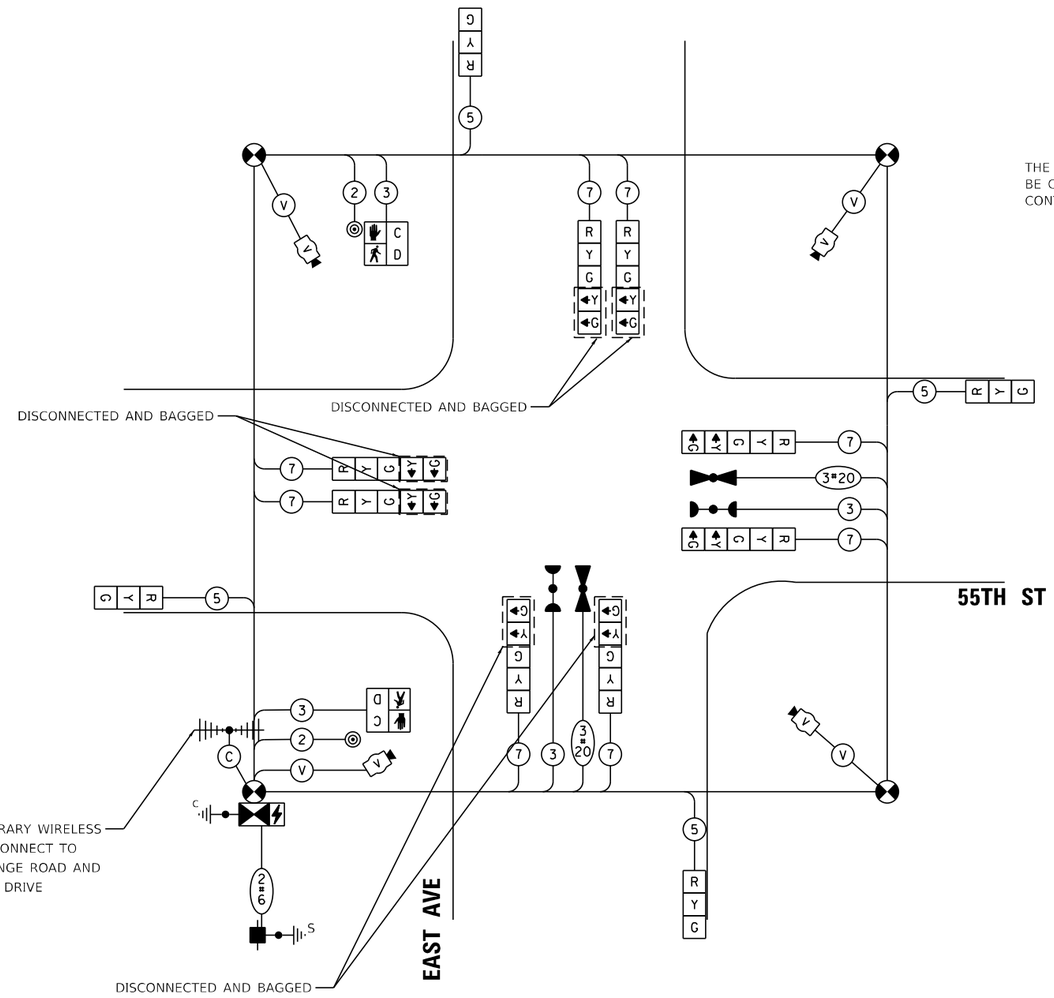
TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	11	50	66.0
(YELLOW)	12	20	5	12.0
(GREEN)	12	12	45	64.8
PERMISSIVE ARROW	16	10	10	16.0
PED. SIGNAL	2	20	100	40.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
			TOTAL =	473.8

ENERGY COSTS TO:

VILLAGE OF COUNTRYSIDE
5550 EAST AVENUE
COUNTRYSIDE, IL 60525

ENERGY SUPPLY: CONTACT: ILYAS MOHIUDDIN
PHONE: 708-235-2692
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER: ---



THE ENDS OF THE TRACER CABLES SHALL BE CONTINUOUS AND EXTEND INTO THE CONTROLLER CABINETS

TEMPORARY TRAFFIC SIGNAL CABLE PLAN – STAGES 3A & 3B

NOT TO SCALE

TS SHEET NO. 30

TS 3845
EAGLE 28

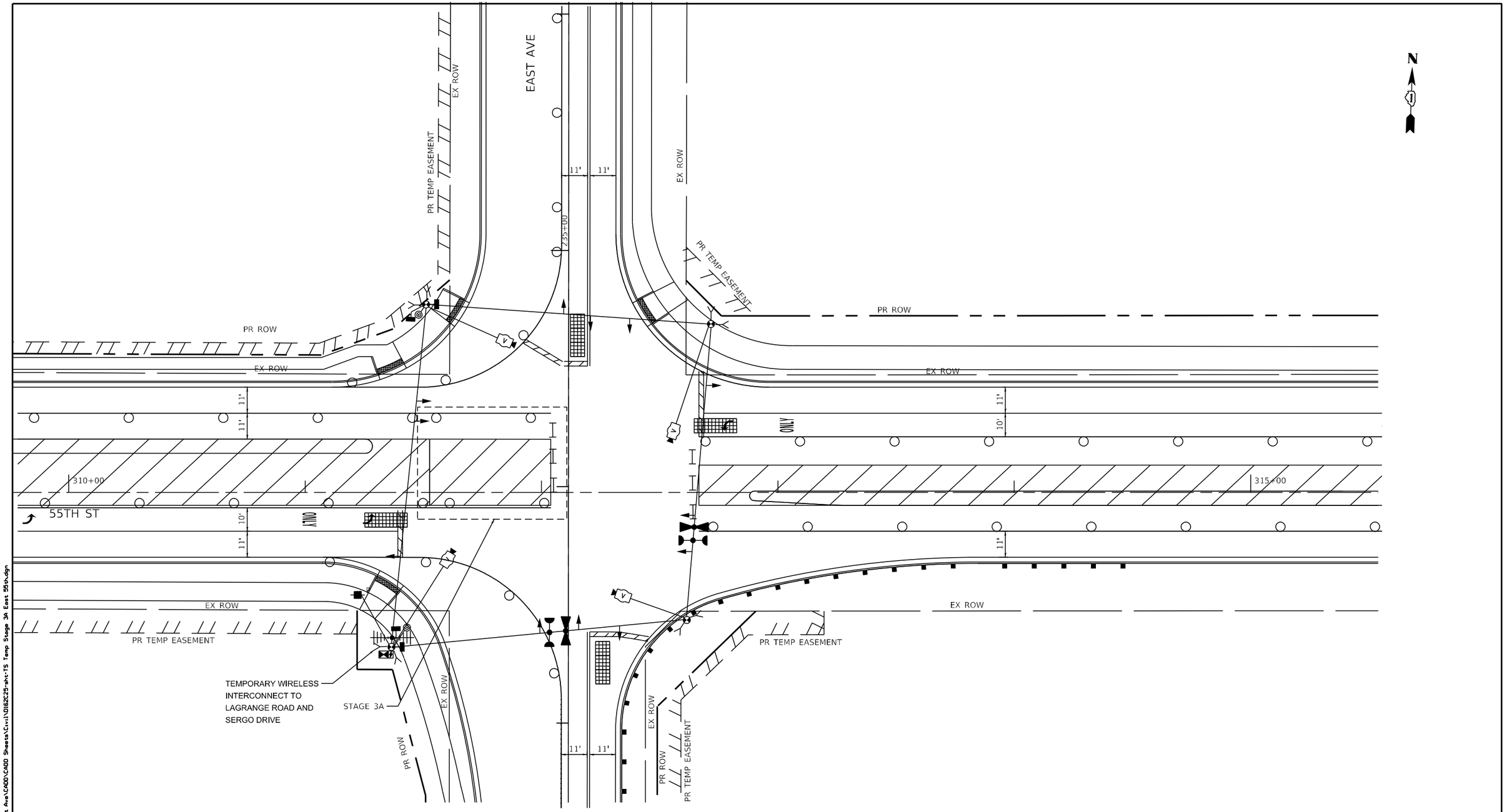
FILE NAME = D:\Engineering\LivePrograms\13031 IDOT East Ave\CADD\CADD Sheets\Civil\D1625225-sht-ts tempdwg East 55th - Stage 2A 2B.dgn

Accurate GROUP, INC.	USER NAME = jschumann	DESIGNED - LC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
		DRAWN - MS	REVISED -	
	PLOT SCALE = 40.0000 ' / in.	CHECKED - TGM	REVISED -	
	PLOT DATE = 8/5/2021	DATE - 07/30/2021	REVISED -	

TEMPORARY TRAFFIC SIGNAL CABLE PLAN - STAGE 3A & 3B
EAST AVE AT 55TH ST
EAST AVENUE (55TH ST TO JOLIET RD)

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	426	237
		CONTRACT NO. 62C25		
		ILLINOIS FED. AID PROJECT		



TS SHEET NO. 31

TS 3845
EAGLE 2B

FILE NAME = D:\Engineering\LiveProjects\38311 IDOT East Ave\CADD\CADD Sheets\Civil\D1B2C25-sht-TS Temp Stage 3A East 55th.dgn

USER NAME = jschumann	DESIGNED - LC	REVISED -	
	DRAWN - MS	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - TGM	REVISED -	
PLOT DATE = 8/5/2021	DATE - 07/30/2021	REVISED -	

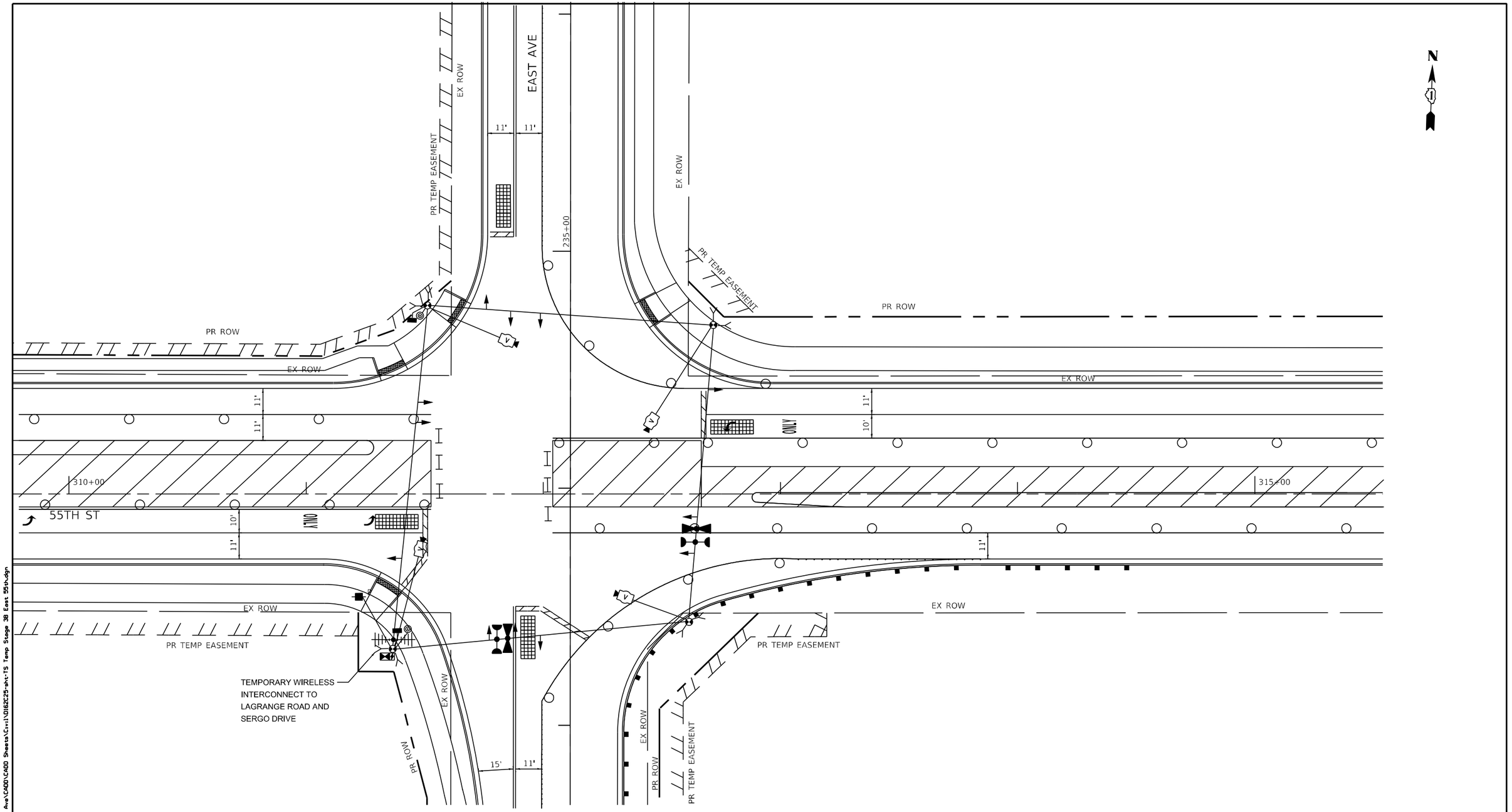
Accurate GROUP, INC.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL PLAN - STAGES 4 & 4A
EAST AVE AT 55TH ST
EAST AVENUE (55TH ST TO JOLIET RD)

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	426	238
		CONTRACT NO. 62C25		
		ILLINOIS FED. AID PROJECT		



TS SHEET NO. 32

TS 3845
EAGLE 2B

FILE NAME = D:\Engineering\LiveProjects\38311 IDOT East Ave\CADD\CADD Sheets\Civil\D1B2C25-sht-TS Temp Stage 3B East 55th.dgn

Accurate GROUP, INC.	USER NAME = jschumann	DESIGNED - LC	REVISED -
		DRAWN - MS	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED - TGM	REVISED -
	PLOT DATE = 8/5/2021	DATE - 07/30/2021	REVISED -

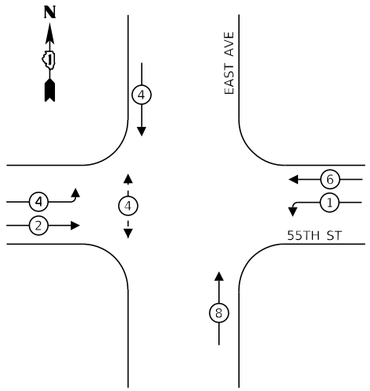
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 4B
EAST AVE AT 55TH ST
EAST AVENUE (55TH ST TO JOLIET RD)

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	426	239
		CONTRACT NO. 62C25		
		ILLINOIS FED. AID PROJECT		

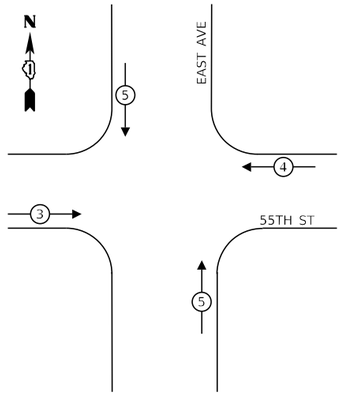
TEMPORARY CONTROLLER SEQUENCE – STAGES 4, 4A & 4B



LEGEND:

- PROTECTED PHASE
- PROTECTED/PERMITTED PHASE
- PEDESTRIAN PHASE
- OL OVERLAP
- ✱ NUMBER REFERS TO ASSOCIATED PHASE

TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE – STAGES 4, 4A & 4B



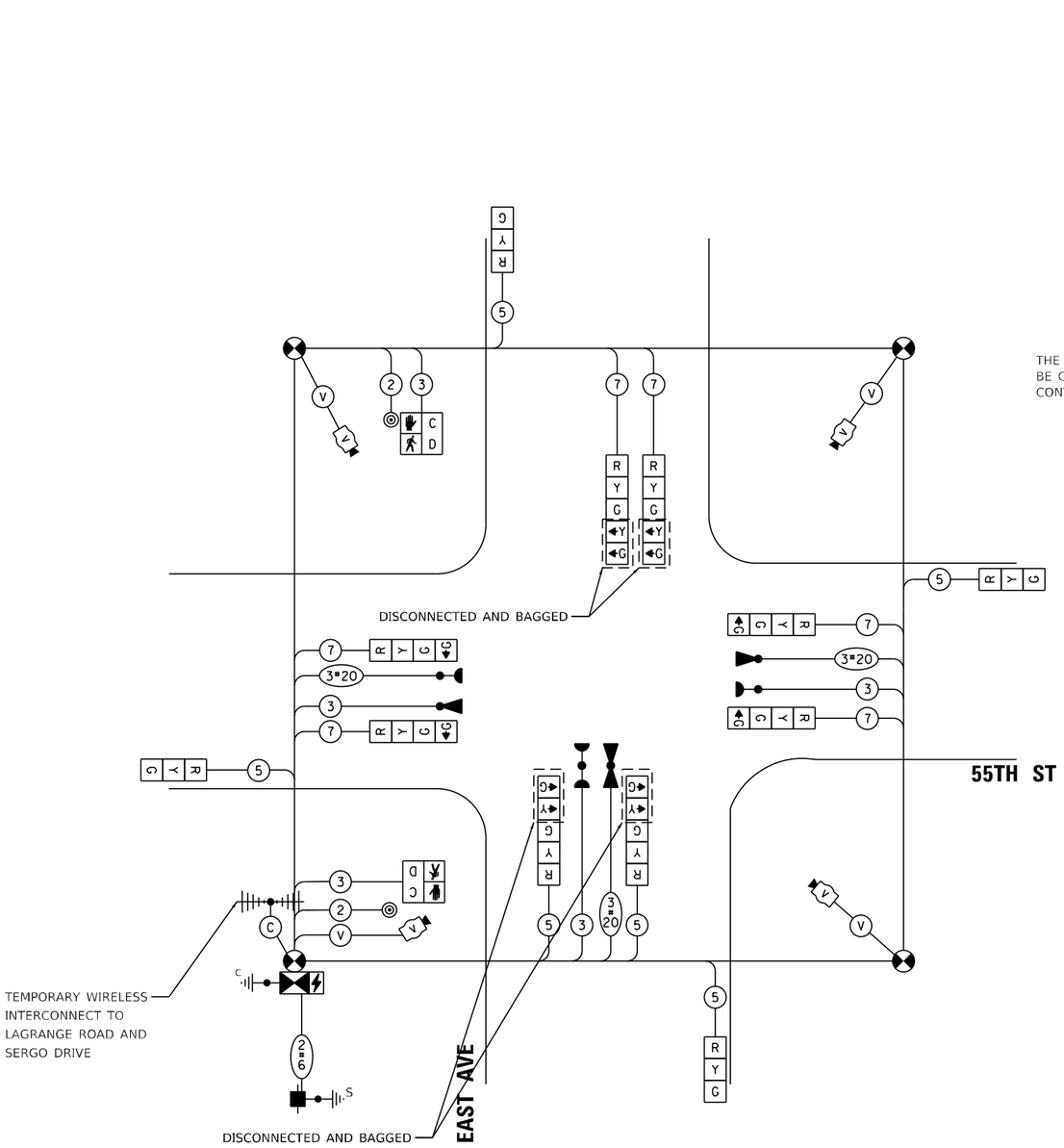
TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	11	50	66.0
(YELLOW)	12	20	5	12.0
(GREEN)	12	12	45	64.8
PERMISSIVE ARROW	16	10	10	16.0
PED. SIGNAL	2	20	100	40.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
			TOTAL =	473.8

ENERGY COSTS TO:

VILLAGE OF COUNTRYSIDE
5550 EAST AVENUE
COUNTRYSIDE, IL 60525

ENERGY SUPPLY: CONTACT: ILYAS MOHIUDDIN
PHONE: 708-235-2692
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER: ---



TEMPORARY TRAFFIC SIGNAL CABLE PLAN – STAGES 4, 4A & 4B

NOT TO SCALE

TS 3845
EAGLE 28

TS SHEET NO. 33

FILE NAME = D:\Engineering\LiveProjects\13031 IDOT East Ave\CADD\CADD Sheets\Civil\D1622C25-sht-ts tempdsg East 55th - Stage 3A 3B.dgn

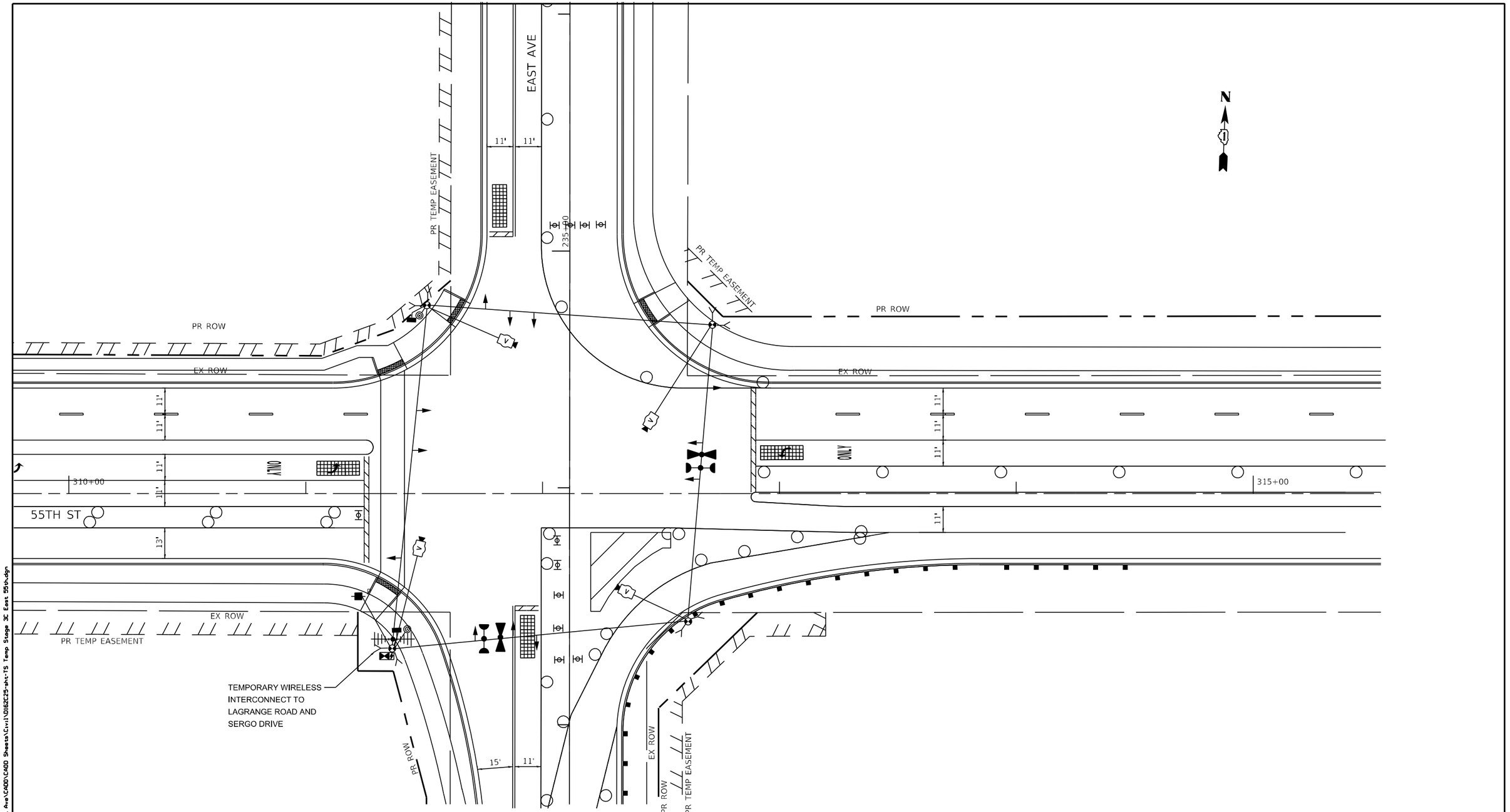
Accurate GROUP, INC.	USER NAME = jschumann	DESIGNED - LC	REVISED -
		DRAWN - MS	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED - TGM	REVISED -
	PLOT DATE = 8/5/2021	DATE - 07/30/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL CABLE PLAN - STAGES 4, 4A & 4B
EAST AVE AT 55TH ST
EAST AVENUE (55TH ST TO JOLIET RD)

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	426	240
		CONTRACT NO. 62C25		
	ILLINOIS FED. AID PROJECT			



TS SHEET NO. 34

TS 3845
EAGLE 2B

FILE NAME = D:\Engineering\LiveProjects\13031 IDOT East Ave\CADD\CADD Sheets\Civil\D102C25-sht-TS Temp Stage 3C East 55th.dgn

Accurate GROUP, INC.

USER NAME = jschumann	DESIGNED - LC	REVISED -
	DRAWN - MS	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - TGM	REVISED -
PLOT DATE = 8/5/2021	DATE - 07/30/2021	REVISED -

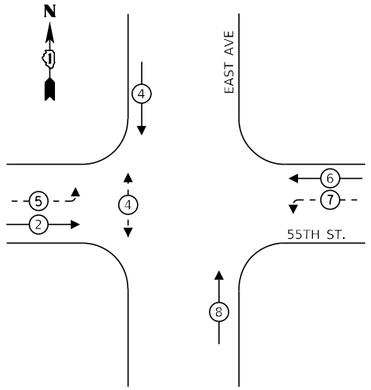
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 4C
EAST AVE AT 55TH ST
EAST AVENUE (55TH ST TO JOLIET RD)

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	426	241
		CONTRACT NO. 62C25		
		ILLINOIS FED. AID PROJECT		

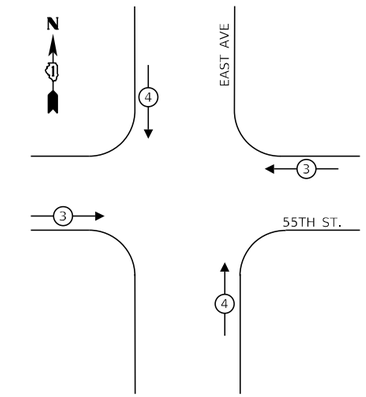
TEMPORARY CONTROLLER SEQUENCE – STAGE 4C



LEGEND:

- PROTECTED PHASE
- PROTECTED/PERMITTED PHASE
- PEDESTRIAN PHASE
- OL — OVERLAP
- ✱ NUMBER REFERS TO ASSOCIATED PHASE

TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE – STAGE 4C



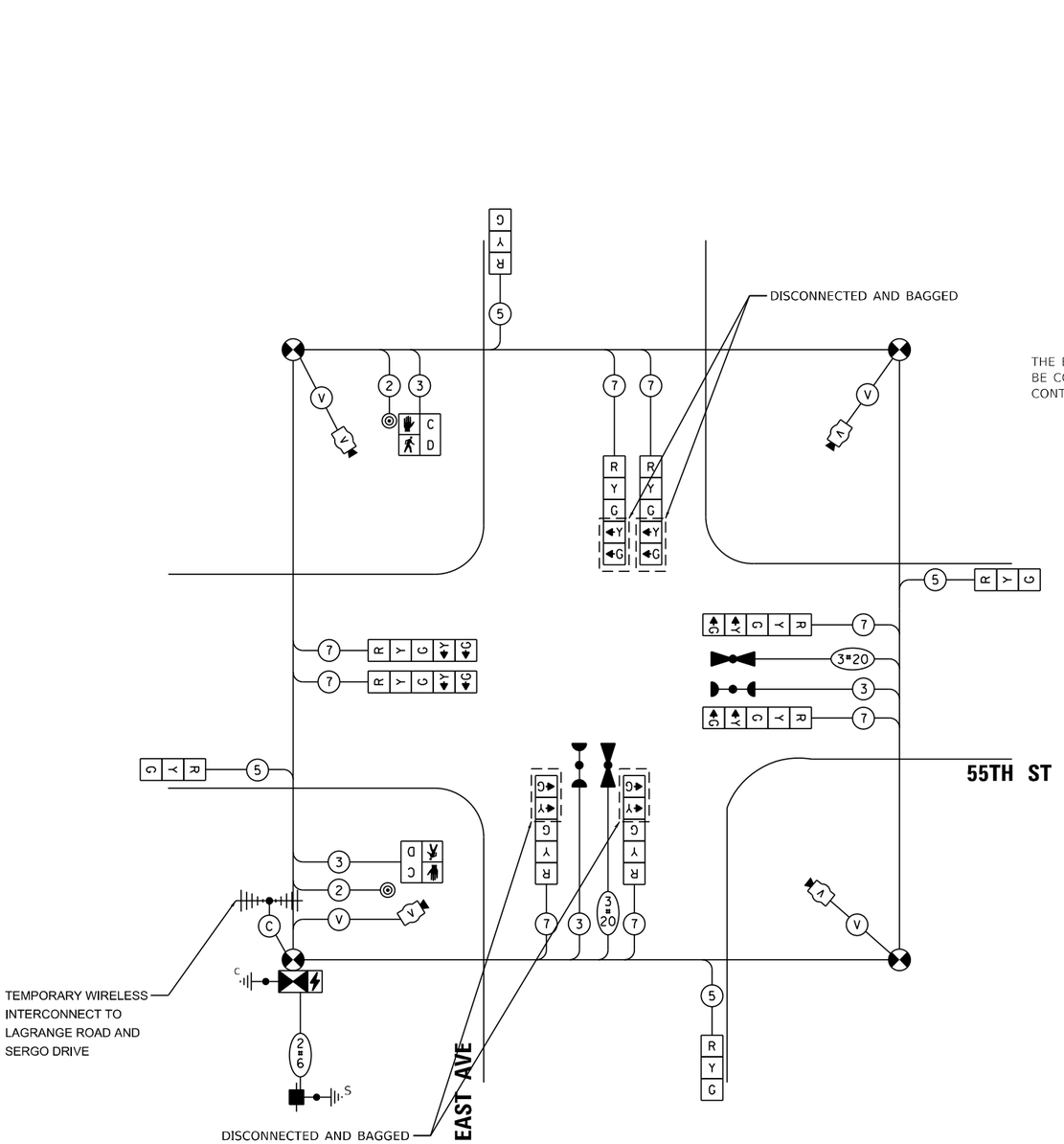
TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	11	50	66.0
(YELLOW)	12	20	5	12.0
(GREEN)	12	12	45	64.8
PERMISSIVE ARROW	16	10	10	16.0
PED. SIGNAL	2	20	100	40.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150
			TOTAL =	473.8

ENERGY COSTS TO:

VILLAGE OF COUNTRYSIDE
5550 EAST AVENUE
COUNTRYSIDE, IL 60525

ENERGY SUPPLY: CONTACT: ILYAS MOHIUDDIN
PHONE: 708-235-2692
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER: ---



TEMPORARY TRAFFIC SIGNAL CABLE PLAN – STAGE 4C

NOT TO SCALE

TS 3845
EAGLE 28

TS SHEET NO. 35

FILE NAME = D:\Engineering\LivePrograms\13031 IDOT East Ave\CADD\C4DD Sheets\Civil\D162C25-sht-ts tempdsg East 55th - Stage 3C.dgn

Accurate GROUP, INC.

USER NAME = jschumann	DESIGNED - LC	REVISED -
	DRAWN - MS	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - TGM	REVISED -
PLOT DATE = 8/5/2021	DATE - 07/30/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

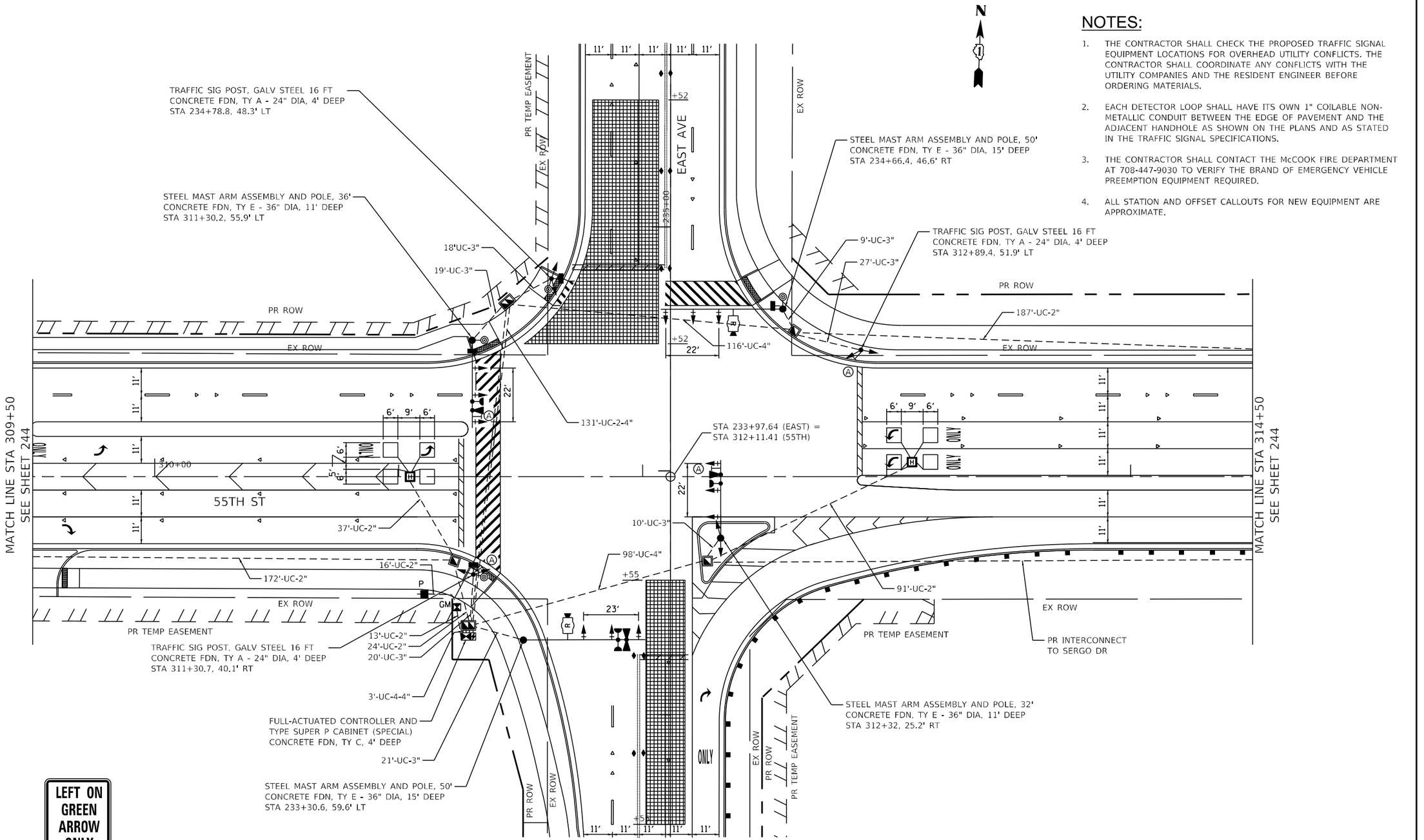
TEMPORARY TRAFFIC SIGNAL CABLE PLAN - STAGE 4C
EAST AVE AT 55TH ST
EAST AVENUE (55TH ST TO JOLIET RD)

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	426	242
		CONTRACT NO. 62C25		
		ILLINOIS FED. AID PROJECT		

NOTES:

1. THE CONTRACTOR SHALL CHECK THE PROPOSED TRAFFIC SIGNAL EQUIPMENT LOCATIONS FOR OVERHEAD UTILITY CONFLICTS. THE CONTRACTOR SHALL COORDINATE ANY CONFLICTS WITH THE UTILITY COMPANIES AND THE RESIDENT ENGINEER BEFORE ORDERING MATERIALS.
2. EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND AS STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.
3. THE CONTRACTOR SHALL CONTACT THE McCOOK FIRE DEPARTMENT AT 708-447-9030 TO VERIFY THE BRAND OF EMERGENCY VEHICLE PREEMPTION EQUIPMENT REQUIRED.
4. ALL STATION AND OFFSET CALLOUTS FOR NEW EQUIPMENT ARE APPROXIMATE.



TS SHEET NO. 36

TS 3845
EAGLE 2B

FILE NAME = D:\Engineering\LiveProjects\3831 IDOT East Ave\CADD\CADD Sheets\Civil\D1622Z5-sht-PropIS-East -55th.dgn

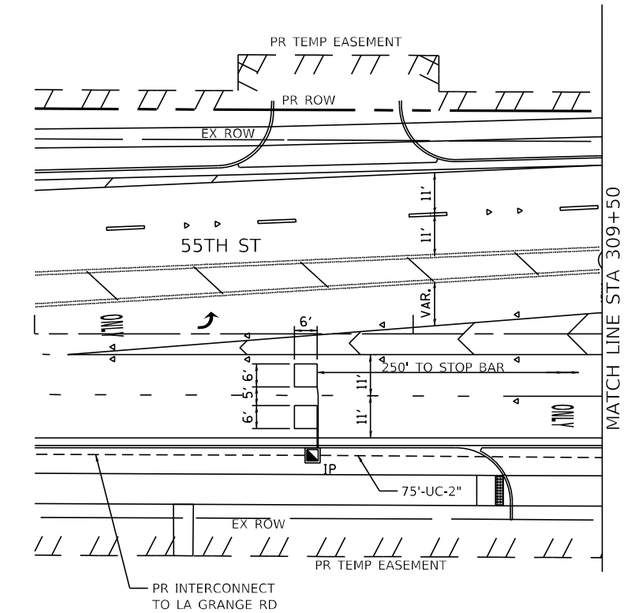
USER NAME = jschumann	DESIGNED - LC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN - MS	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - TGM	REVISED -	
PLOT DATE = 8/5/2021	DATE - 07/30/2021	REVISED -	

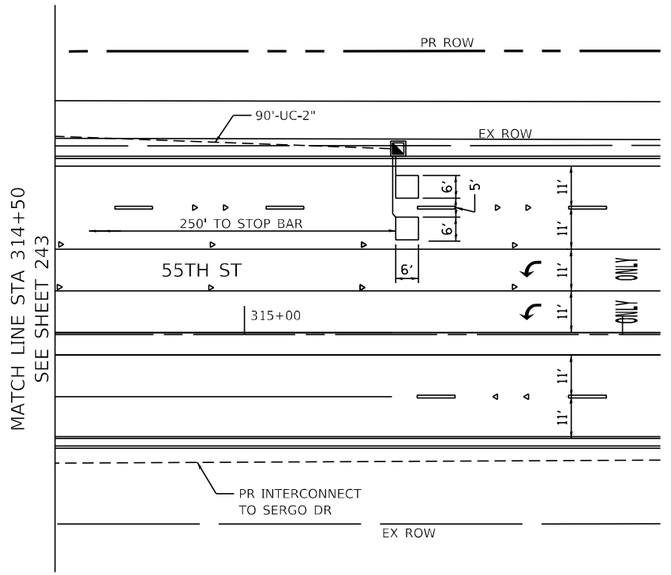
Accurate GROUP, INC.

TRAFFIC SIGNAL INSTALLATION PLAN - I
EAST AVE AT 55TH ST
EAST AVENUE (55TH ST TO JOLIET RD)

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	426	243
		CONTRACT NO. 62C25		
		ILLINOIS FED. AID PROJECT		





NOTES:

1. THE CONTRACTOR SHALL CHECK THE PROPOSED TRAFFIC SIGNAL EQUIPMENT LOCATIONS FOR OVERHEAD UTILITY CONFLICTS. THE CONTRACTOR SHALL COORDINATE ANY CONFLICTS WITH THE UTILITY COMPANIES AND THE RESIDENT ENGINEER BEFORE ORDERING MATERIALS.
2. EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND AS STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.
3. THE CONTRACTOR SHALL CONTACT THE McCOOK FIRE DEPARTMENT AT 708-447-9030 TO VERIFY THE BRAND OF EMERGENCY VEHICLE PREEMPTION EQUIPMENT REQUIRED.
4. ALL STATION AND OFFSET CALLOUTS FOR NEW EQUIPMENT ARE APPROXIMATE.

TS 3845
EAGLE 2B

TS SHEET NO. 37

FILE NAME = D:\Engineering\LiveProjects\13831 IDOT East Ave\CADD\CADD Sheets\Civil\D1622Z5-sht-Prop15-East-55th 2.dgn

Accurate GROUP, INC.

USER NAME = jschumann	DESIGNED - LC	REVISED -	
	DRAWN - MS	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - TGM	REVISED -	
PLOT DATE = 8/5/2021	DATE - 07/30/2021	REVISED -	

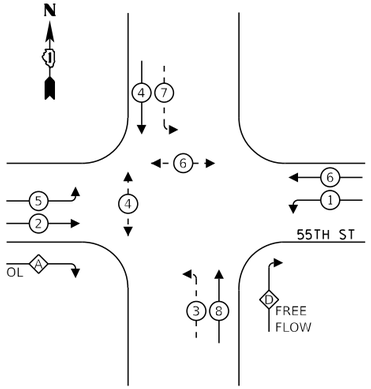
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL INSTALLATION PLAN - II
EAST AVE AT 55TH ST
EAST AVENUE (55TH ST TO JOLIET RD)

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	426	244
		CONTRACT NO. 62C25		
		ILLINOIS FED. AID PROJECT		

PROPOSED CONTROLLER SEQUENCE



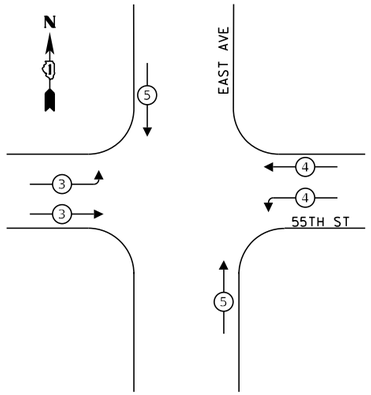
LEGEND:

- PROTECTED PHASE
- PROTECTED/PERMITTED PHASE
- PEDESTRIAN PHASE
- OL — OVERLAP
- ✱ NUMBER REFERS TO ASSOCIATED PHASE

RIGHT TURN OVERLAP PHASE DESIGNATION:

OVERLAP LETTER		PERMISSIVE PHASE		PROTECTED PHASE
A	=	2	+	3

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



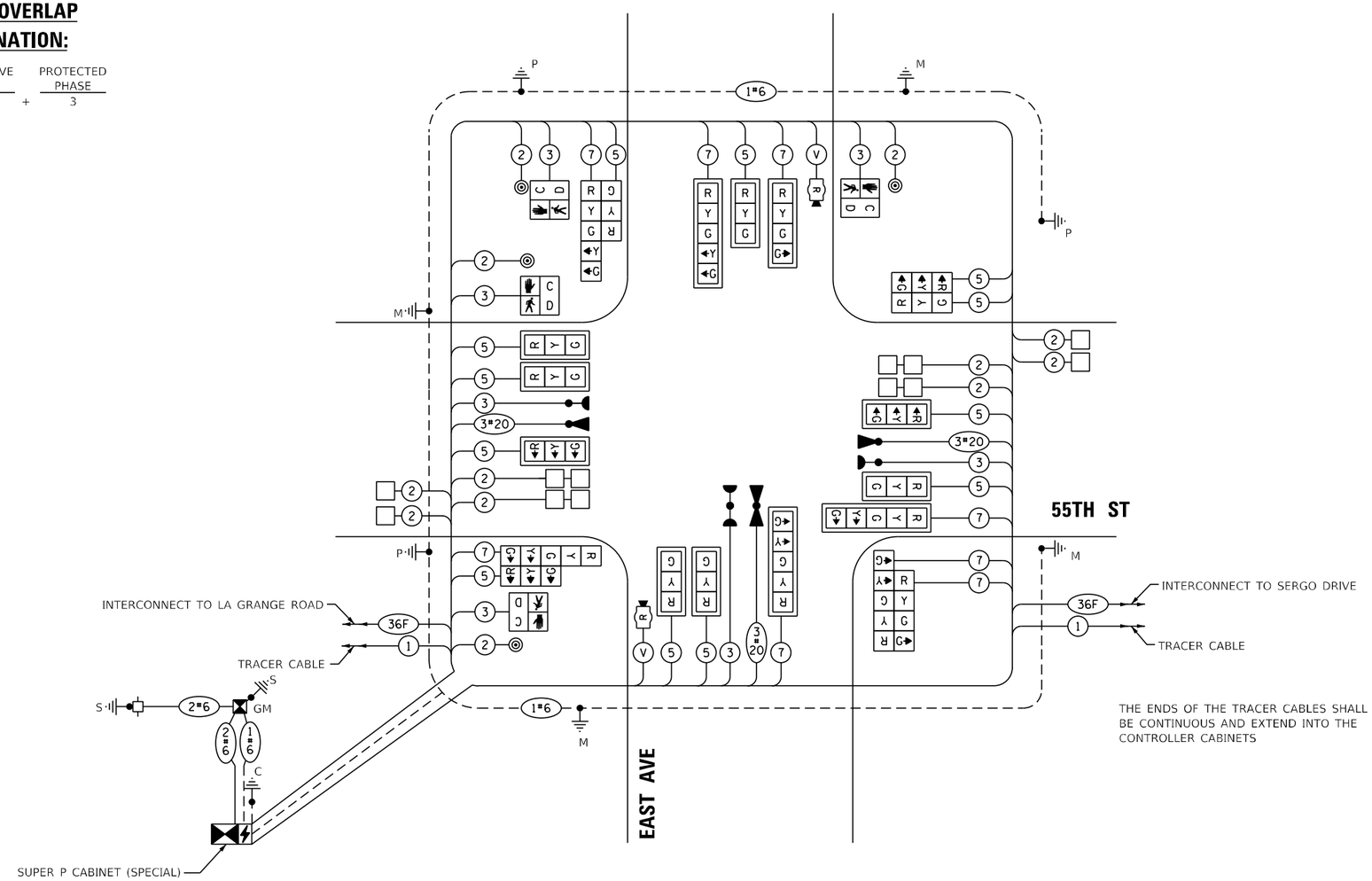
TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	19	11	50	104.5
(YELLOW)	19	20	5	19
(GREEN)	21	12	45	113.4
PERMISSIVE ARROW	12	10	10	12
PED. SIGNAL	4	20	100	80
CONTROLLER	1	100	100	100
UPS	1	25	100	25
			TOTAL =	453.9

ENERGY COSTS TO:

VILLAGE OF COUNTRYSIDE
5550 EAST AVENUE
COUNTRYSIDE, IL 60525

ENERGY SUPPLY: CONTACT: ILYAS MOHIUDDIN
PHONE: 708-235-2692
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER: ---



CABLE PLAN

NOT TO SCALE

TS SHEET NO. 38

TS 3845
EAGLE 2B

FILE NAME = D:\Engineering\LivePrograms\13831 100T East Ave\CADD\CADD Sheets\Civil\62C25-sht-ts popdsg East 55th.dgn

Accurate GROUP, INC.

USER NAME = jschumann	DESIGNED - LC	REVISED -	
	DRAWN - MS	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - TGM	REVISED -	
PLOT DATE = 8/5/2021	DATE - 07/30/2021	REVISED -	

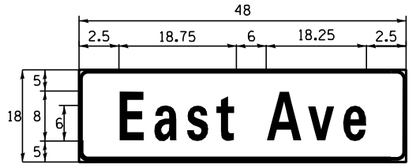
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, CONTROLLER SEQUENCE AND EMERGENCY VEHICLE PREEMPTION SEQUENCE - EAST AVE AT 55TH ST
EAST AVENUE (55TH ST TO JOLIET RD)

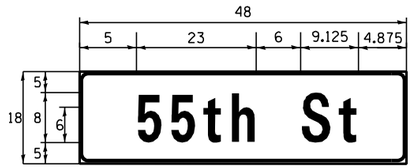
SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	426	245
		CONTRACT NO. 62C25		
		ILLINOIS FED. AID PROJECT		

SIGN PANEL – TYPE 1



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	6	1	ZZ	2



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	6	1	ZZ	2

SCHEDULE OF QUANTITIES

	ITEM DESCRIPTION	UNIT	TOTAL QTY
	SIGN PANEL - TYPE 1	SQ FT	54
	UNDERGROUND CONDUIT, GALVANIZED STEEL 2" DIA.	FOOT	705
	UNDERGROUND CONDUIT, GALVANIZED STEEL 3" DIA.	FOOT	124
	UNDERGROUND CONDUIT, GALVANIZED STEEL 4" DIA.	FOOT	488
	HANDHOLE	EACH	5
	HEAVY-DUTY HANDHOLE	EACH	2
	DOUBLE HANDHOLE	EACH	2
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	747
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1304
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2540
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1564
	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PR	FOOT	2384
	ELECTRIC CABLE IN CONDUIT, SERVICE NO. 6 2C	FOOT	63
	ELECTRIC CABLE IN CONDUIT, EQUIP. GROUNDING CONDUCTOR, NO. 6 1C	FOOT	632
	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FOOT	EACH	3
	STEEL MAST ARM ASSEMBLY AND POLE, 32 FOOT	EACH	1
	STEEL MAST ARM ASSEMBLY AND POLE, 36 FOOT	EACH	1
	STEEL MAST ARM ASSEMBLY AND POLE, 50 FOOT	EACH	2
	CONCRETE FOUNDATION, TYPE A	FOOT	12
	CONCRETE FOUNDATION, TYPE C	FOOT	4
	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	52
	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	8
	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4
	SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	1
	SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	1
	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	3
	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	3
	PED. SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED W/COUNTDOWN TIMER	EACH	4
	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	12
	INDUCTIVE LOOP DETECTOR	EACH	8
	DETECTOR LOOP, TYPE I	FOOT	366
*	LIGHT DETECTOR	EACH	3
*	LIGHT DETECTOR AMPLIFIER	EACH	1
	PEDESTRIAN PUSH BUTTON	EACH	4
	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
	REMOVE EXISTING HANDHOLE	EACH	14
	REMOVE EXISTING DOUBLE HANDHOLE	EACH	1
	REMOVE EXISTING CONCRETE FOUNDATION	EACH	9
*	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	532
	FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET (SPECIAL)	EACH	1
	SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
	RADAR VEHICLE DETECTION SYSTEM, SINGLE APPROACH, STOP BAR	EACH	2
	UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1

* 100% COST TO THE VILLAGE OF McCOOK

TS SHEET NO. 39

TS 3845
EAGLE 2B

FILE NAME = D:\Engineering\LivePrograms\13031 IDOT East Ave\CADD\C400 Sheets\Civil\0102C25-Sht-TS Signs 55th East.dgn

Accurate GROUP, INC.

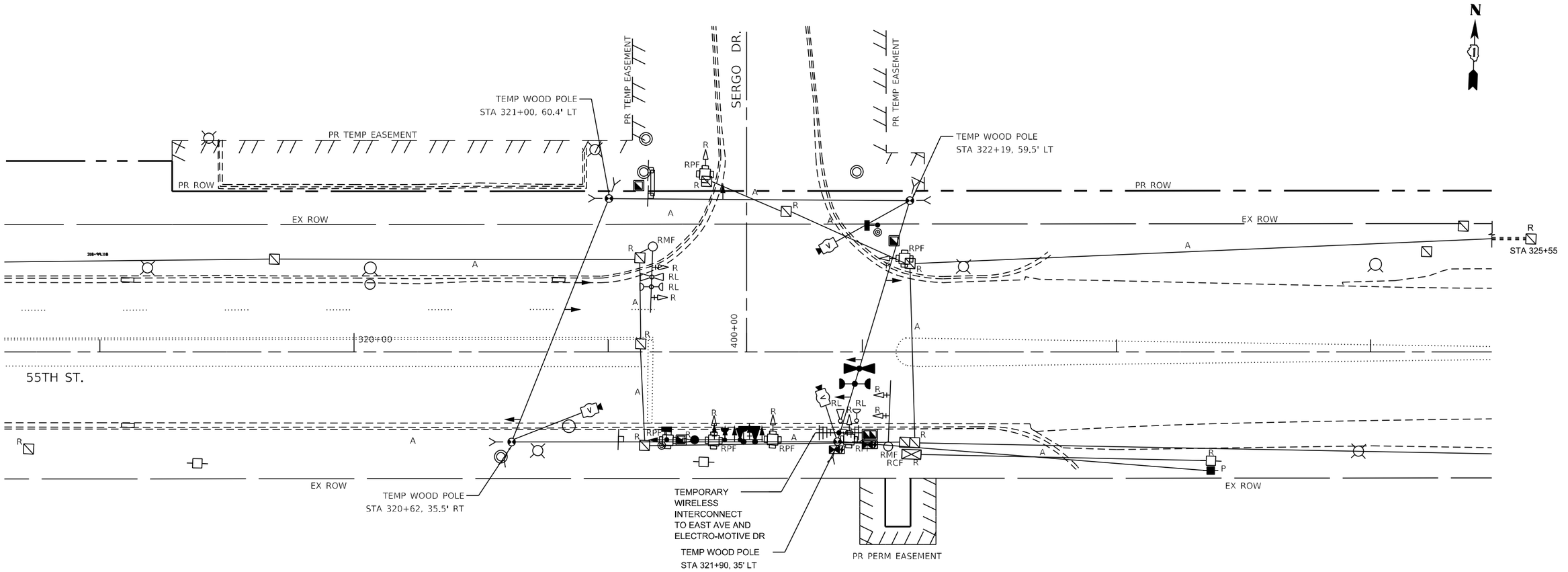
USER NAME = jschumann	DESIGNED - LC	REVISED -
	DRAWN - MS	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - TGM	REVISED -
PLOT DATE = 8/5/2021	DATE - 07/30/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAST ARM MOUNTED STREET NAME SIGNS AND SCHEDULE OF QUANTITES - EAST AVE AT 55TH ST
EAST AVENUE (55TH ST TO JOLIET RD)

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	426	246
		CONTRACT NO. 62C25		
	ILLINOIS FED. AID PROJECT			



REMOVAL AND RELOCATION NOTES:

THE FOLLOWING ITEMS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

2 EACH STEEL MAST ARM ASSEMBLY AND POLE
6 EACH TRAFFIC SIGNAL POST
8 EACH 3-SECTION SIGNAL HEAD
2 EACH 5-SECTION SIGNAL HEAD
1 EACH SERVICE INSTALLATION
4 EACH TRAFFIC SIGNAL BACKPLATE

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE STATE OF ILLINOIS, AND SHALL BE DELIVERED BY THE CONTRACTOR TO THE STATE STOCK.

1 EACH CONTROLLER AND CABINET (COMPLETE)
1 EACH UNINTERRUPTABLE POWER SUPPLY

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SAFELY STORED AND RELOCATED TO THE PROPOSED MAST ARMS AND TRAFFIC SIGNAL CONTROLLER:

2 EACH LIGHT DETECTOR
3 EACH CONFIRMATION BEACON
1 EACH LIGHT DETECTOR AMPLIFIER

NOTES:

1. THE CONTRACTOR SHALL CHECK THE PROPOSED TRAFFIC SIGNAL EQUIPMENT LOCATIONS FOR OVERHEAD UTILITY CONFLICTS. THE CONTRACTOR SHALL COORDINATE ANY CONFLICTS WITH THE UTILITY COMPANIES AND THE RESIDENT ENGINEER BEFORE ORDERING MATERIALS.

2. SEE SHEETS 248 THROUGH 256 FOR RELOCATION OF SIGNAL HEADS TO ALIGN WITH TRAFFIC IN STAGE 1 TO STAGE 4.

TS 11086
EAGLE 2B

TS SHEET NO. 40

FILE NAME = D:\Engineering\LiveProjects\13031 IDOT East Ave\CADD\CADD Sheets\Civil\D1622C25-Sht-TS Temp 55th Sergo.dgn

Accurate GROUP, INC.

USER NAME = jschumann	DESIGNED - LC	REVISED -	
	DRAWN - MS	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - TGM	REVISED -	
PLOT DATE = 8/5/2021	DATE - 07/30/2021	REVISED -	

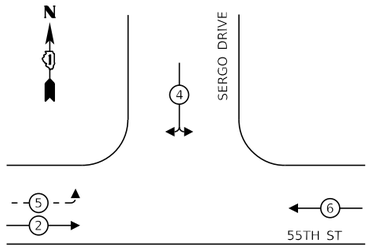
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN AND REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN
55TH ST AT SERGO DR

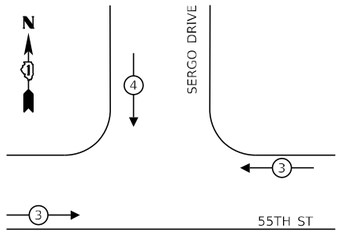
SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	426	247
		CONTRACT NO. 62C25		
		ILLINOIS FED. AID PROJECT		

INITIAL TEMPORARY CONTROLLER SEQUENCE



INITIAL TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE

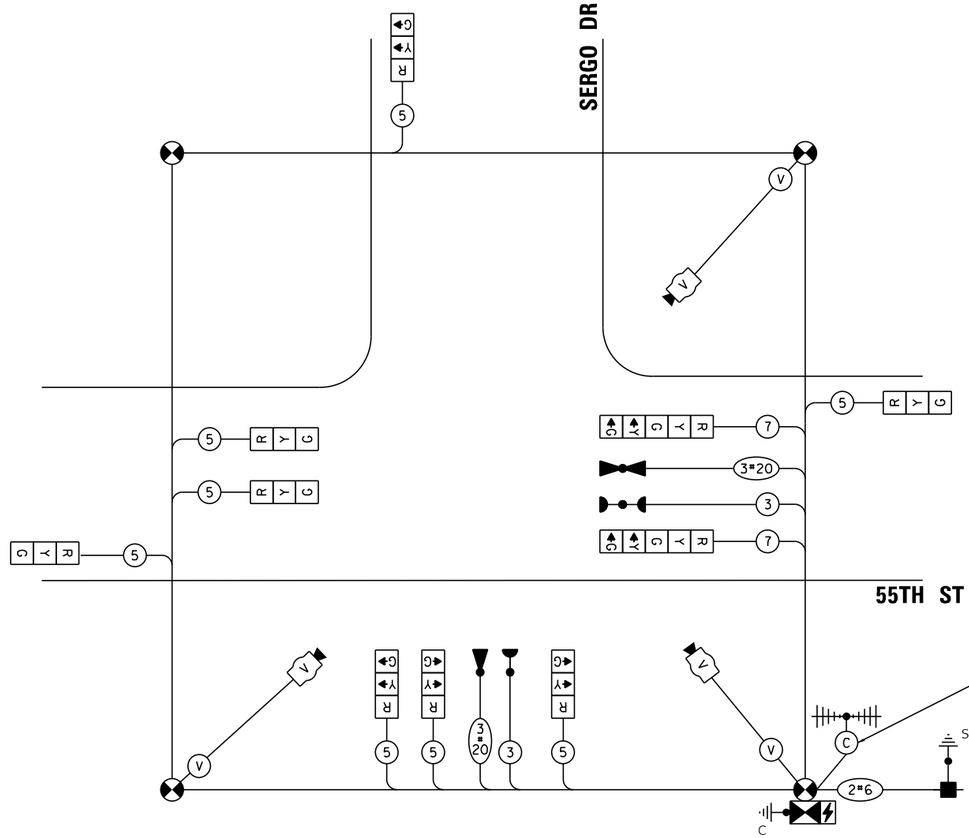


LEGEND:

PROTECTED PHASE

PROTECTED/PERMITTED PHASE

* NUMBER REFERS TO ASSOCIATED PHASE



INITIAL TEMPORARY CABLE PLAN

NOT TO SCALE

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	10	11	50	55
(YELLOW)	10	20	5	10
(GREEN)	10	12	45	54
PERMISSIVE ARROW	4	10	10	4
CONTROLLER	1	100	100	100
UPS	1	25	100	25
VIDEO SYSTEM	1	150	100	150
			TOTAL =	398

ENERGY COSTS TO:

VILLAGE OF McCOOK
5000 GLENCOE AVENUE
McCOOK, IL 60525

ENERGY SUPPLY: CONTACT: ILYAS MOHIUDDIN
PHONE: 708-235-2692
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER: ---

TS 11086
EAGLE 2B

TS SHEET NO. 41

FILE NAME = D:\Engineering\LiveProjects\13031 IDOT East Ave\CADD\C4DD Sheets\Civil\D1622Z5-sht-ts tempdsg 55TH Sergo - Initial Plan.dgn

Accurate GROUP, INC.

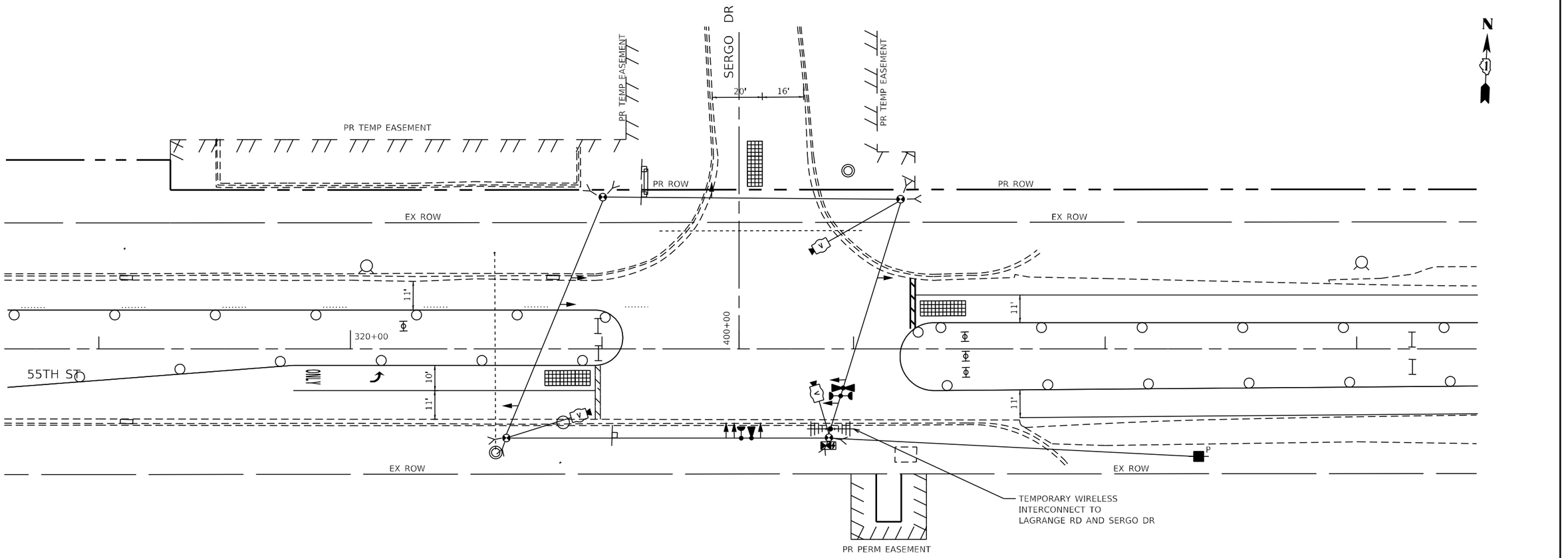
USER NAME = jschumann	DESIGNED - LC	REVISED -	
	DRAWN - MS	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - TGM	REVISED -	
PLOT DATE = 8/5/2021	DATE - 07/30/2021	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL CABLE PLAN - INITIAL
55TH ST AT SERGO DR
EAST AVENUE (55TH ST TO JOLIET RD)

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	426	248
		CONTRACT NO. 62C25		
	ILLINOIS FED. AID PROJECT			



TS SHEET NO. 42

TS 11086
EAGLE 2B

Accurate GROUP, INC.	USER NAME = jschumann	DESIGNED - LC	REVISED -
		DRAWN - MS	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED - TGM	REVISED -
	PLOT DATE = 8/5/2021	DATE - 07/30/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

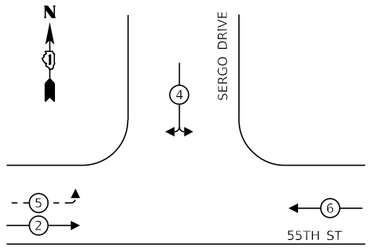
TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 1
55TH ST AT SERGO DR
EAST AVENUE (55TH ST TO JOLIET RD)

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	426	249
		CONTRACT NO. 62C25		
		ILLINOIS	FED. AID PROJECT	

FILE NAME = D:\Engineering\LivePrograms\13031 IDOT East Ave\CADD\CADD Sheets\Civil\D1622Z5-Sht-TS Temp Stage 0 55th Sergo.dgn

TEMPORARY CONTROLLER SEQUENCE – STAGE 1



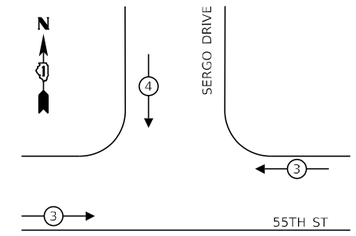
LEGEND:

PROTECTED PHASE

PROTECTED/PERMITTED PHASE

* NUMBER REFERS TO ASSOCIATED PHASE

TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE – STAGE 1



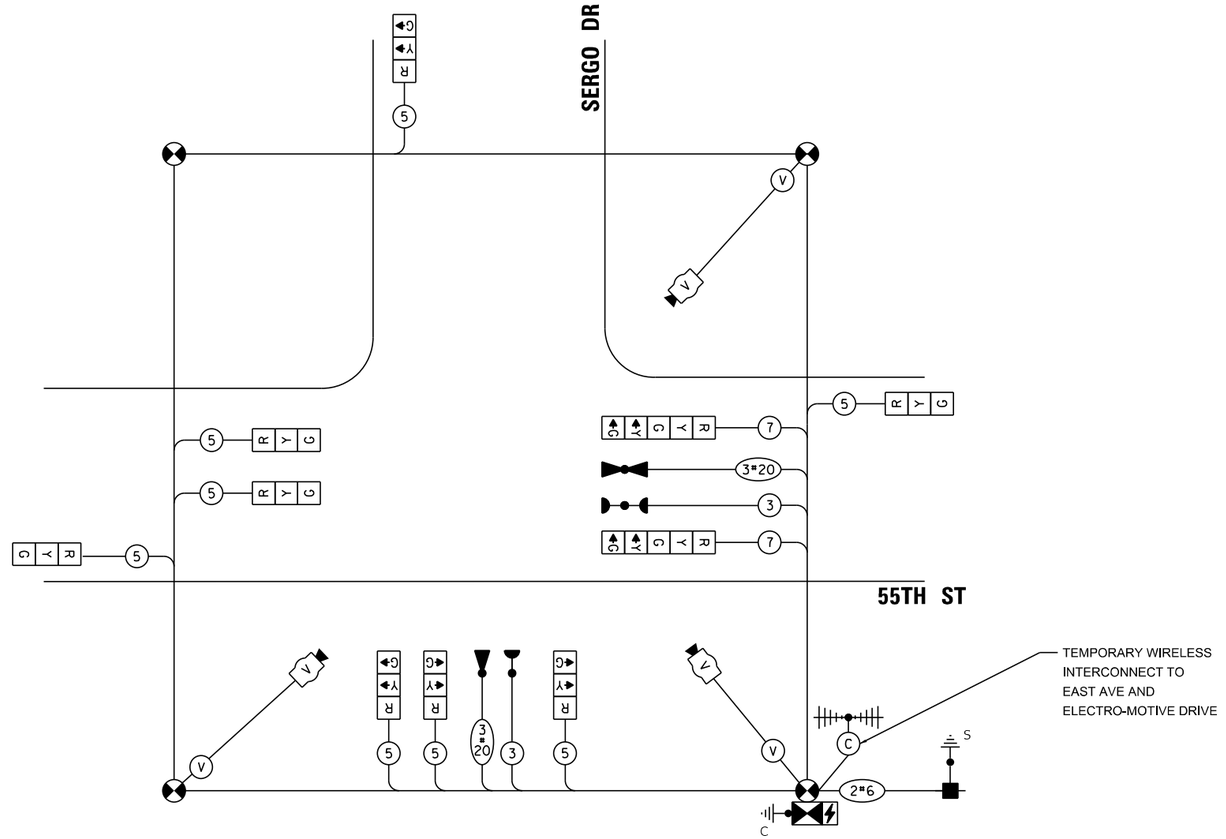
TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	10	11	50	55
(YELLOW)	10	20	5	10
(GREEN)	10	12	45	54
PERMISSIVE ARROW	4	10	10	4
CONTROLLER	1	100	100	100
UPS	1	25	100	25
VIDEO SYSTEM	1	150	100	150
			TOTAL =	398

ENERGY COSTS TO:

VILLAGE OF McCOOK
5000 GLENCOE AVENUE
McCOOK, IL 60525

ENERGY SUPPLY: CONTACT: ILYAS MOHIUDDIN
PHONE: 708-235-2692
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER: ---



TEMPORARY CABLE PLAN – STAGE 1

NOT TO SCALE

TS 11086
EAGLE 2B

TS SHEET NO. 43

FILE NAME = D:\Engineering\LiveProjects\13031 IDOT East Ave\CADD\C4DD Sheets\Civil\D1622Z5-shits tempdsg 55TH Sergo - Stage 8.dgn

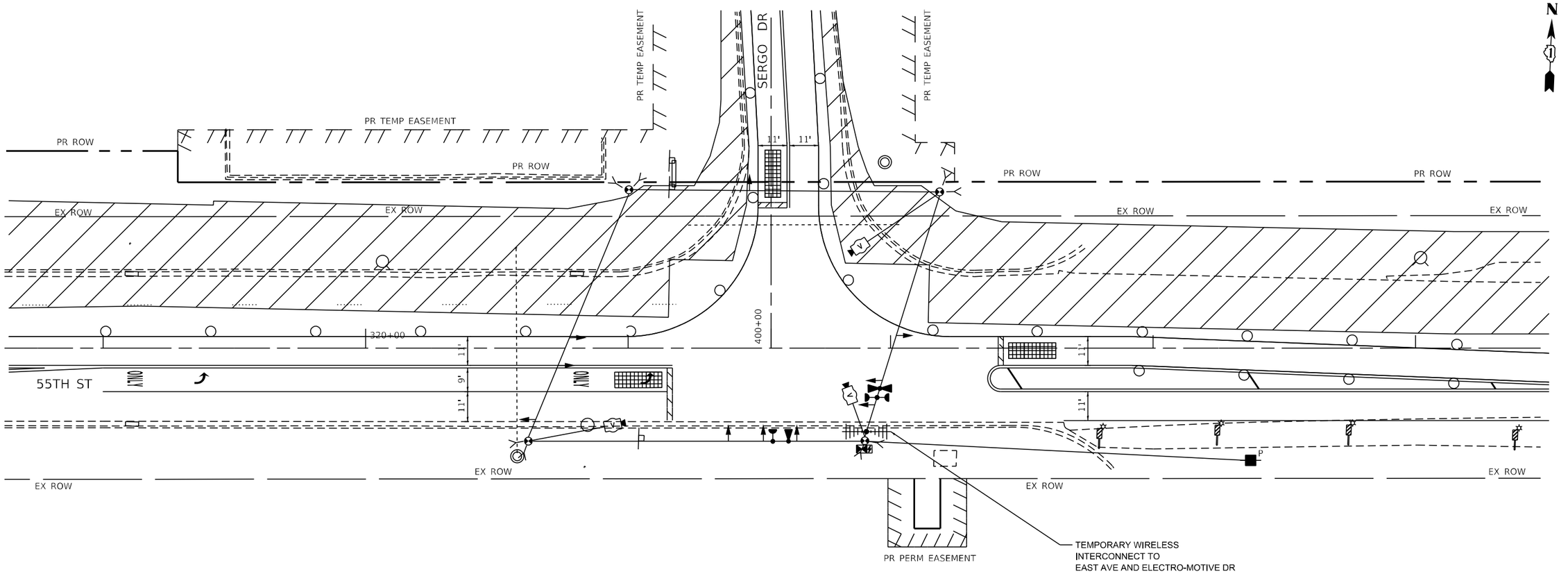
Accurate GROUP, INC.	USER NAME = jschumann	DESIGNED - LC	REVISED -
		DRAWN - MS	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED - TGM	REVISED -
	PLOT DATE = 8/5/2021	DATE - 07/30/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL CABLE PLAN - STAGE 1
55TH ST AT SERGO DR
EAST AVENUE (55TH ST TO JOLIET RD)

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	426	250
		CONTRACT NO. 62C25		
	ILLINOIS FED. AID PROJECT			



TS SHEET NO. 44

TS 11086
EAGLE 2B

FILE NAME = D:\Engineering\LiveProjects\13031 IDOT East Ave\CADD\CADD Sheets\Civil\D1&2C25-Sht-TS Temp Stage 1 55th Sergo.dgn

Accurate GROUP, INC.	USER NAME = jschumann	DESIGNED - LC	REVISED -
		DRAWN - MS	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED - TGM	REVISED -
	PLOT DATE = 8/5/2021	DATE - 07/30/2021	REVISED -

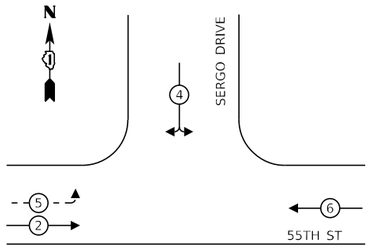
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 2
55TH ST AT SERGO DR
EAST AVENUE (55TH ST TO JOLIET RD)

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	426	251
		CONTRACT NO. 62C25		
		ILLINOIS FED. AID PROJECT		

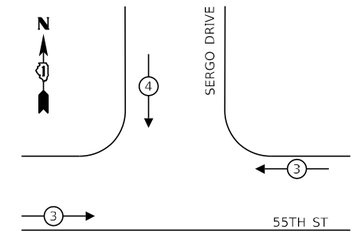
TEMPORARY CONTROLLER SEQUENCE – STAGE 2



LEGEND:

- PROTECTED PHASE
- PROTECTED/PERMITTED PHASE
- PEDESTRIAN PHASE
- OL — OVERLAP
- ✱ NUMBER REFERS TO ASSOCIATED PHASE

TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE – STAGE 2



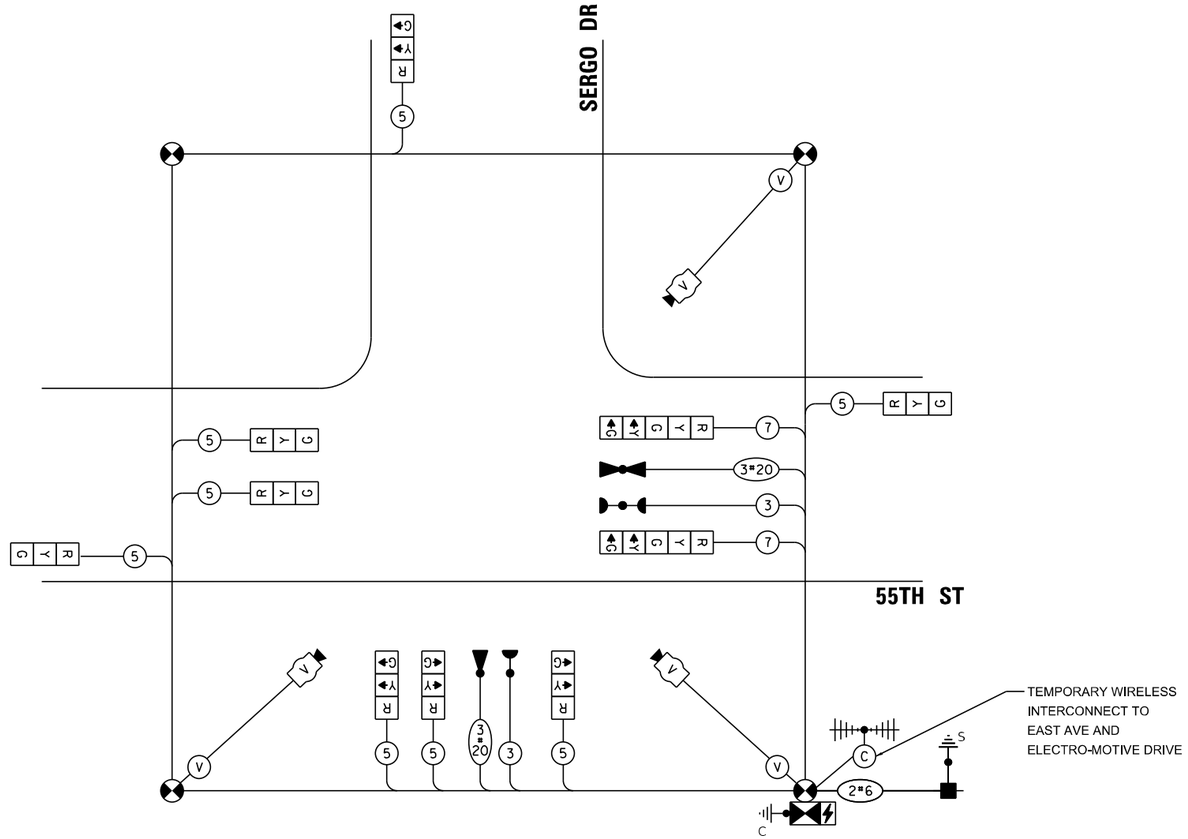
TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	10	11	50	55
(YELLOW)	10	20	5	10
(GREEN)	10	12	45	54
PERMISSIVE ARROW	4	10	10	4
CONTROLLER	1	100	100	100
UPS	1	25	100	25
VIDEO SYSTEM	1	150	100	150
			TOTAL =	398

ENERGY COSTS TO:

VILLAGE OF McCOOK
5000 GLENCOE AVENUE
McCOOK, IL 60525

ENERGY SUPPLY: CONTACT: ILYAS MOHIUDDIN
PHONE: 708-235-2692
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER: ---



TEMPORARY TRAFFIC SIGNAL CABLE PLAN – STAGE 2

NOT TO SCALE

TS SHEET NO. 45

TS 11086
EAGLE 2B

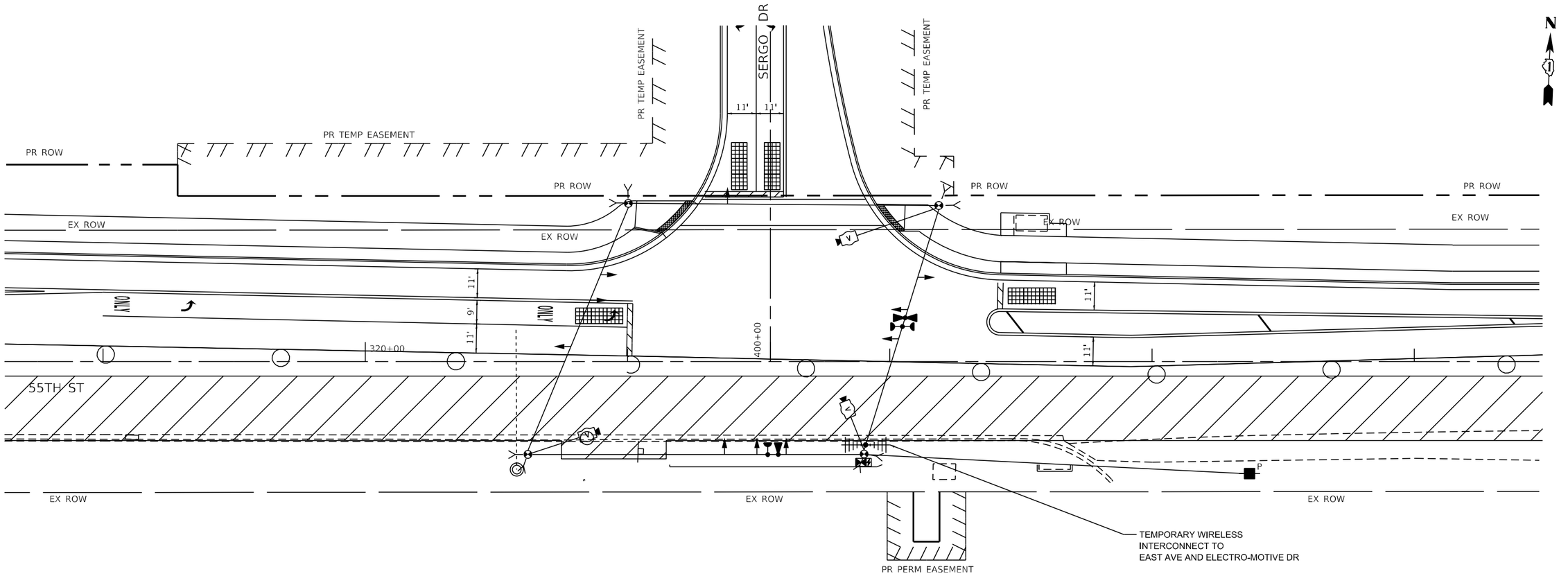
FILE NAME = D:\Engineering\LiveProjects\13031 IDOT East Ave\CADD\C4DD Sheets\Civil\D102C225-sht-ts tempdsg 55TH Sergo - Stage 1.dgn

Accurate GROUP, INC.	USER NAME = jschumann	DESIGNED - LC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
		DRAWN - MS	REVISED -	
	PLOT SCALE = 40.0000 ' / in.	CHECKED - TGM	REVISED -	
	PLOT DATE = 8/5/2021	DATE - 07/30/2021	REVISED -	

TEMPORARY TRAFFIC SIGNAL CABLE PLAN - STAGE 2
55TH ST AT SERGO DR
EAST AVENUE (55TH ST TO JOLIET RD)

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	426	252
		CONTRACT NO. 62C25		
	ILLINOIS FED. AID PROJECT			



TS SHEET NO. 46

TS 11086
EAGLE 2B

Accurate GROUP, INC.	USER NAME = jschumann	DESIGNED - LC	REVISED -
		DRAWN - MS	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED - TGM	REVISED -
	PLOT DATE = 8/5/2021	DATE - 07/30/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

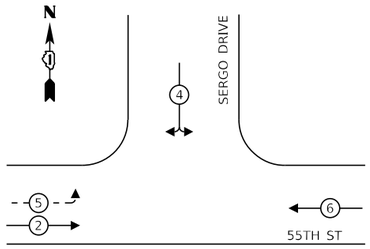
TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 3
55TH ST AT SERGO DR
EAST AVENUE (55TH ST TO JOLIET RD)

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	426	253
		CONTRACT NO. 62C25		
		ILLINOIS FED. AID PROJECT		

FILE NAME = D:\Engineering\LiveProjects\13831 IDOT East Ave\CADD\CADD Sheets\Civil\D1822Z5-Sht-TS Temp Stage 2 55th Sergo.dgn

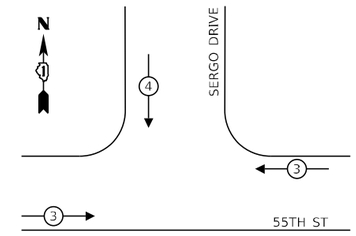
TEMPORARY CONTROLLER SEQUENCE – STAGE 3

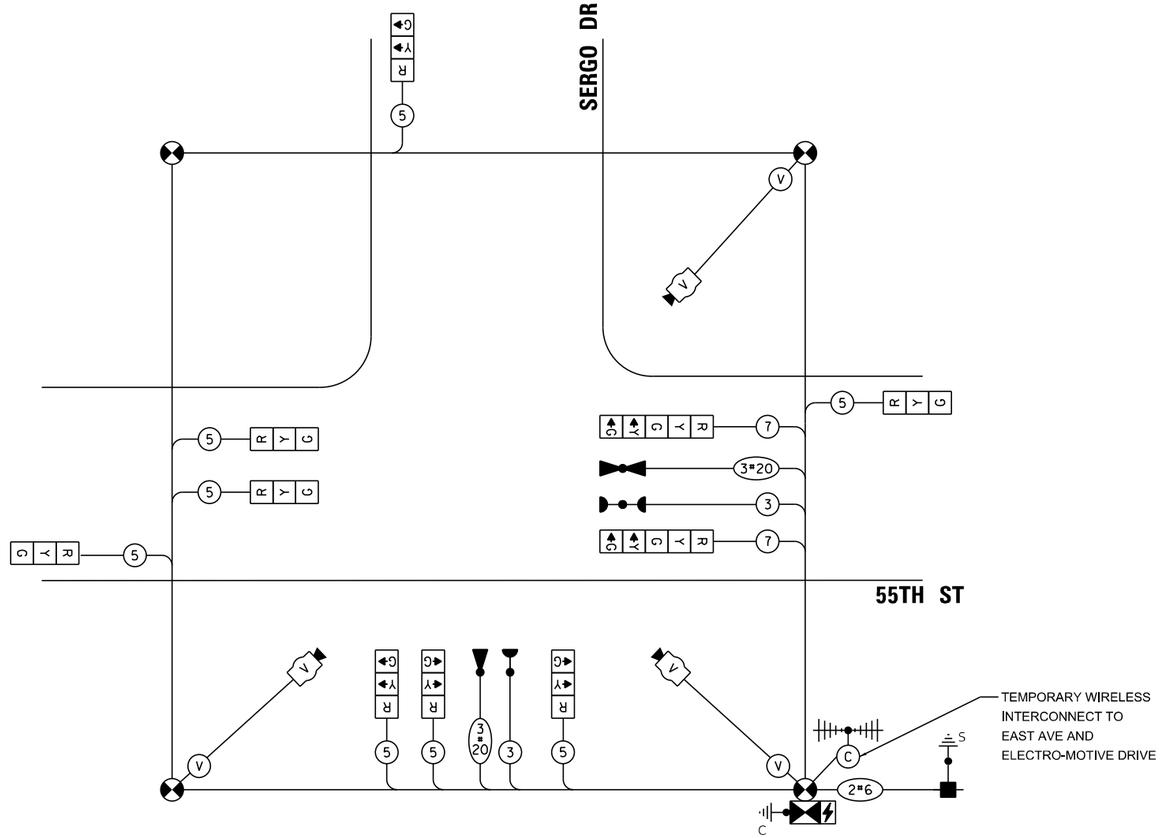


LEGEND:

- PROTECTED PHASE
- PROTECTED/PERMITTED PHASE
- PEDESTRIAN PHASE
- OL — OVERLAP
- ✱ NUMBER REFERS TO ASSOCIATED PHASE

TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE – STAGE 3





TEMPORARY TRAFFIC SIGNAL CABLE PLAN – STAGE 3

NOT TO SCALE

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	10	11	50	55.0
(YELLOW)	10	20	5	10.0
(GREEN)	10	12	45	54.0
PERMISSIVE ARROW	4	10	10	4.0
CONTROLLER	1	100	100	100
UPS	1	25	100	25
VIDEO SYSTEM	1	150	100	150
			TOTAL =	398

ENERGY COSTS TO:

VILLAGE OF McCOOK
5000 GLENCOE AVENUE
McCOOK, IL 60525

ENERGY SUPPLY: CONTACT: ILYAS MOHIUDDIN
PHONE: 708-235-2692
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER: ---

TS 11086
EAGLE 2B

TS SHT NO. 47

FILE NAME = D:\Engineering\LiveProjects\13031 IDOT East Ave\CADD\C4DD Sheets\Civil\D162C25-sht-ts tempdsg 55TH Sergo - Stage 2.dgn

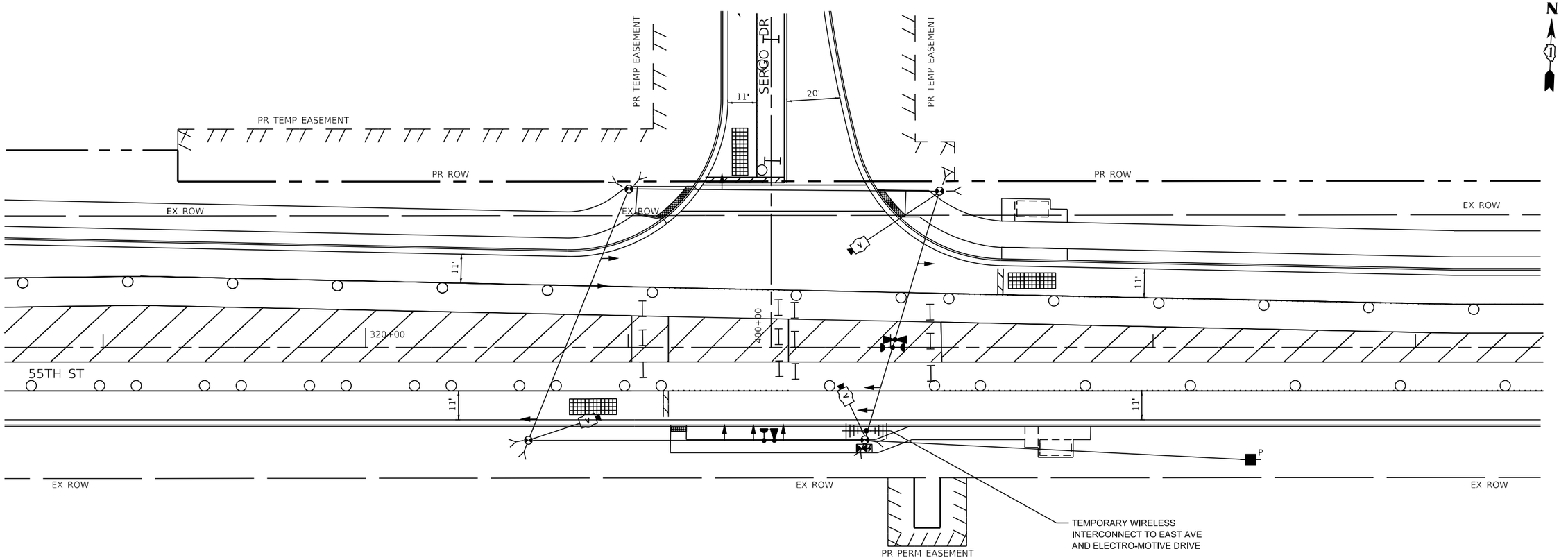
Accurate GROUP, INC.	USER NAME = jschumann	DESIGNED - LC	REVISED -
		DRAWN - MS	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED - TGM	REVISED -
	PLOT DATE = 8/5/2021	DATE - 07/30/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL CABLE PLAN - STAGE 3
55TH ST AT SERGO DR
EAST AVENUE (55TH ST TO JOLIET RD)

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	426	254
		CONTRACT NO. 62C25		
	ILLINOIS FED. AID PROJECT			



TS SHT NO. 48

TS 11086
EAGLE 2B

FILE NAME = D:\Engineering\LiveProjects\13031 IDOT East Ave\CADD\CADD Sheets\Civil\62C25-Sht-15 Temp Stage 3&8 55th Sergo.dgn

Accurate GROUP, INC.	USER NAME = jschumann	DESIGNED - LC	REVISED -
		DRAWN - MS	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED - TGM	REVISED -
	PLOT DATE = 8/5/2021	DATE - 07/30/2021	REVISED -

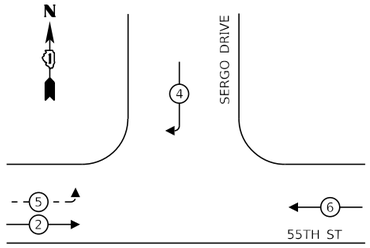
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 4
55TH ST AT SERGO DR
EAST AVENUE (55TH ST TO JOLIET RD)

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	426	255
		CONTRACT NO. 62C25		
	ILLINOIS FED. AID PROJECT			

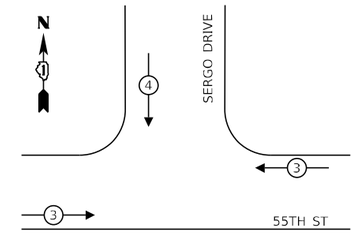
TEMPORARY CONTROLLER SEQUENCE – STAGE 4



LEGEND:

- PROTECTED PHASE
- PROTECTED/PERMITTED PHASE
- PEDESTRIAN PHASE
- OL OVERLAP
- ✱ NUMBER REFERS TO ASSOCIATED PHASE

TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE – STAGE 4



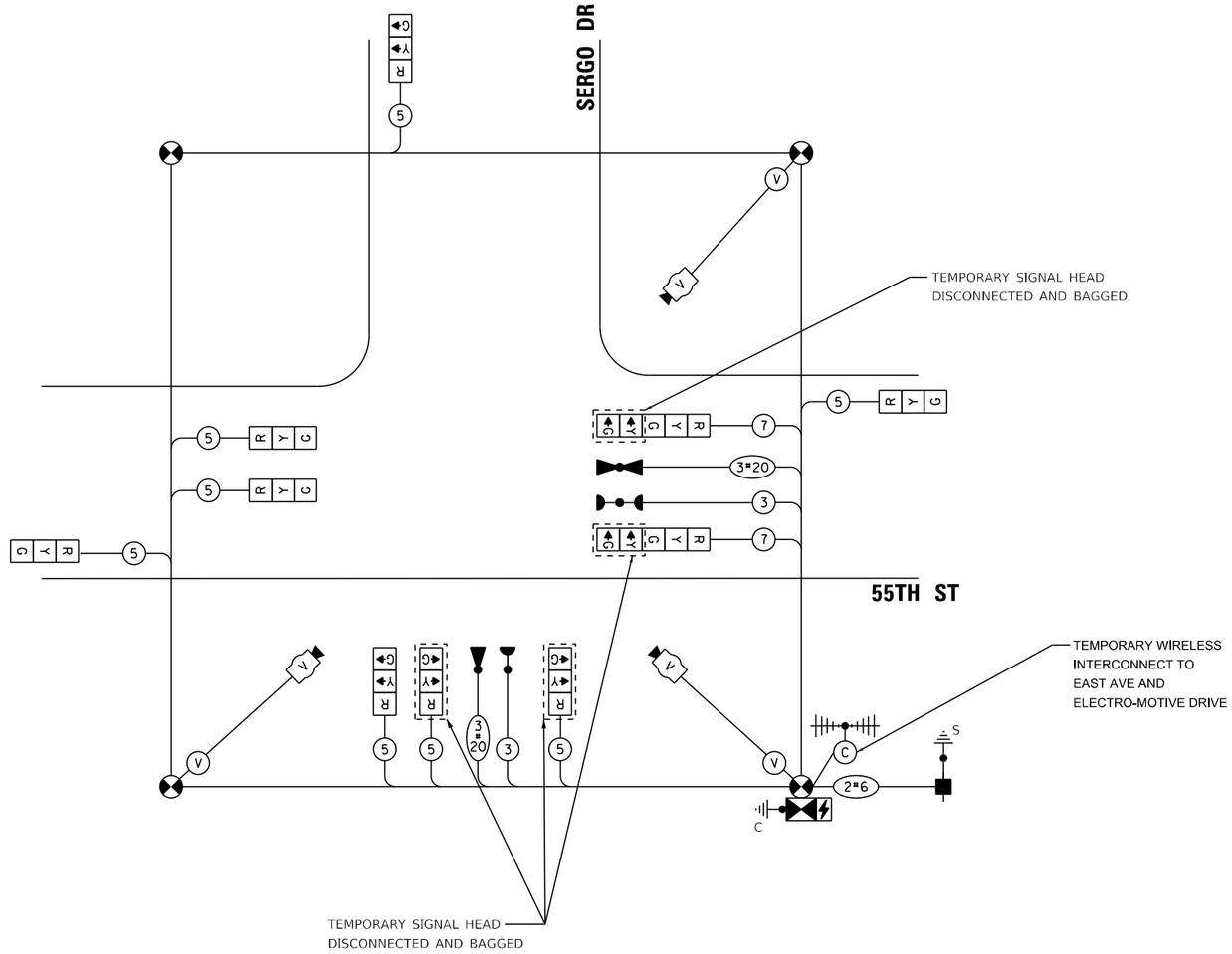
TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	8	11	50	44.0
(YELLOW)	8	20	5	8.0
(GREEN)	8	12	45	43.2
PERMISSIVE ARROW	0	10	10	0.0
CONTROLLER	1	100	100	100
UPS	1	25	100	25
VIDEO SYSTEM	1	150	100	150
			TOTAL =	370.2

ENERGY COSTS TO:

VILLAGE OF McCOOK
5000 GLENCOE AVENUE
McCOOK, IL 60525

ENERGY SUPPLY: CONTACT: ILYAS MOHIUDDIN
PHONE: 708-235-2692
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER: ---



TEMPORARY TRAFFIC SIGNAL CABLE PLAN – STAGE 4

NOT TO SCALE

TS 11086
EAGLE 2B

TS SHT NO. 49

FILE NAME = D:\Engineering\LiveProjects\13031 IDOT East Ave\CADD\C4DD Sheets\Civil\D162C25-sht-ts tempdsg 55TH Sergo - Stage 3.dgn

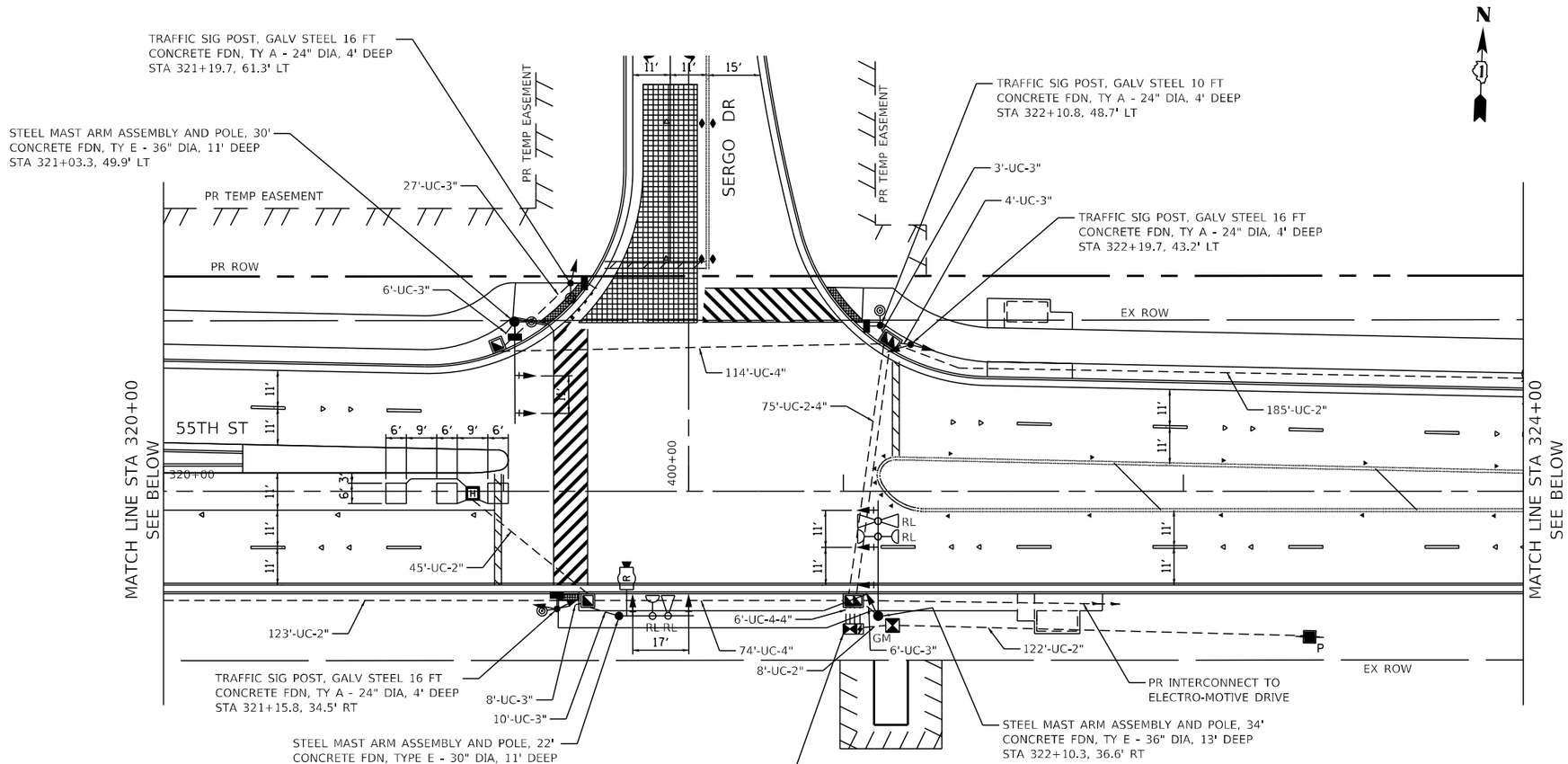
Accurate GROUP, INC.	USER NAME = jschumann	DESIGNED - LC	REVISED -
		DRAWN - MS	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED - TGM	REVISED -
	PLOT DATE = 8/5/2021	DATE - 07/30/2021	REVISED -

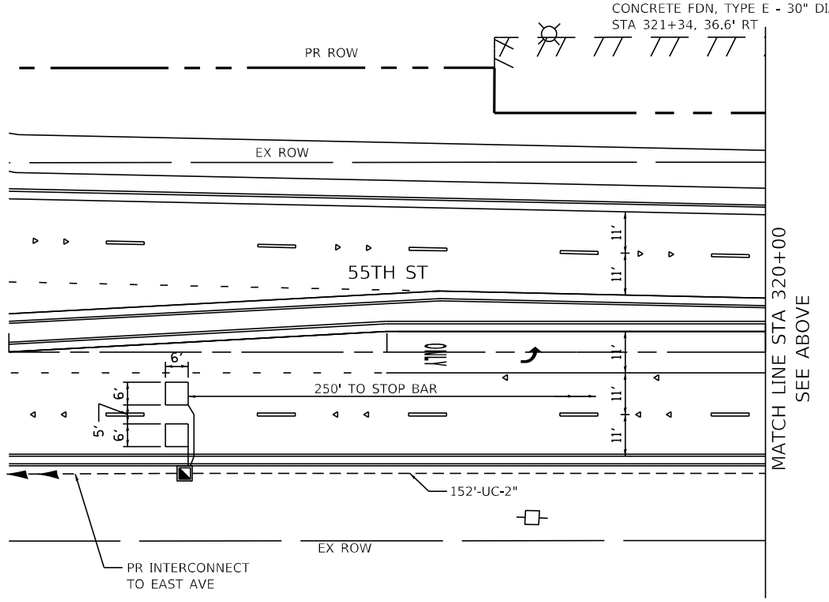
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL CABLE PLAN - STAGE 4
55TH ST AT SERGO DR
EAST AVENUE (55TH ST TO JOLIET RD)

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

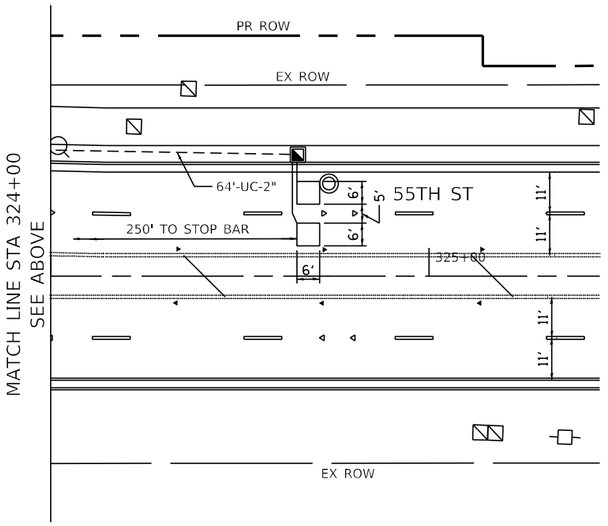
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	426	256
		CONTRACT NO. 62C25		
	ILLINOIS FED. AID PROJECT			





NOTES:

1. THE CONTRACTOR SHALL CHECK THE PROPOSED TRAFFIC SIGNAL EQUIPMENT LOCATIONS FOR OVERHEAD UTILITY CONFLICTS. THE CONTRACTOR SHALL COORDINATE ANY CONFLICTS WITH THE UTILITY COMPANIES AND THE RESIDENT ENGINEER BEFORE ORDERING MATERIALS.
2. EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND AS STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.
3. THE CONTRACTOR SHALL INSTALL THE EMERGENCY VEHICLE PREEMPTION EQUIPMENT REMOVED BY THE CONTRACTOR FROM THE PREVIOUS EXISTING TRAFFIC SIGNAL INSTALLATION AT THIS INTERSECTION.
4. ALL STATION AND OFFSET CALLOUTS FOR NEW EQUIPMENT ARE APPROXIMATE.



TS 11086
EAGLE 2B

TS SHT NO. 50

FILE NAME = D:\Engineering\LiveProjects\13031 IDOT East Ave\CADD\CADD Sheets\Civil\D1626225-Sht-Prop1555n-Sergo.dgn

Accurate GROUP, INC.

USER NAME = jschumann	DESIGNED - LC	REVISED -
	DRAWN - MS	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - TGM	REVISED -
PLOT DATE = 8/5/2021	DATE - 07/30/2021	REVISED -

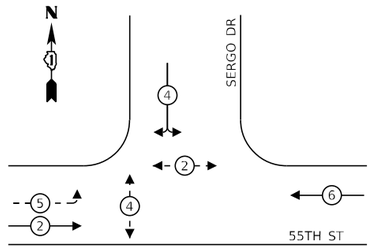
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL INSTALLATION PLAN
55TH ST AT SERGO DR
EAST AVENUE (55TH ST TO JOLIET RD)

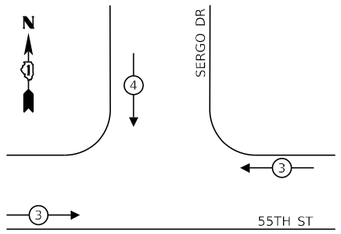
SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	426	257
		CONTRACT NO. 62C25		
		ILLINOIS FED. AID PROJECT		

PROPOSED CONTROLLER SEQUENCE

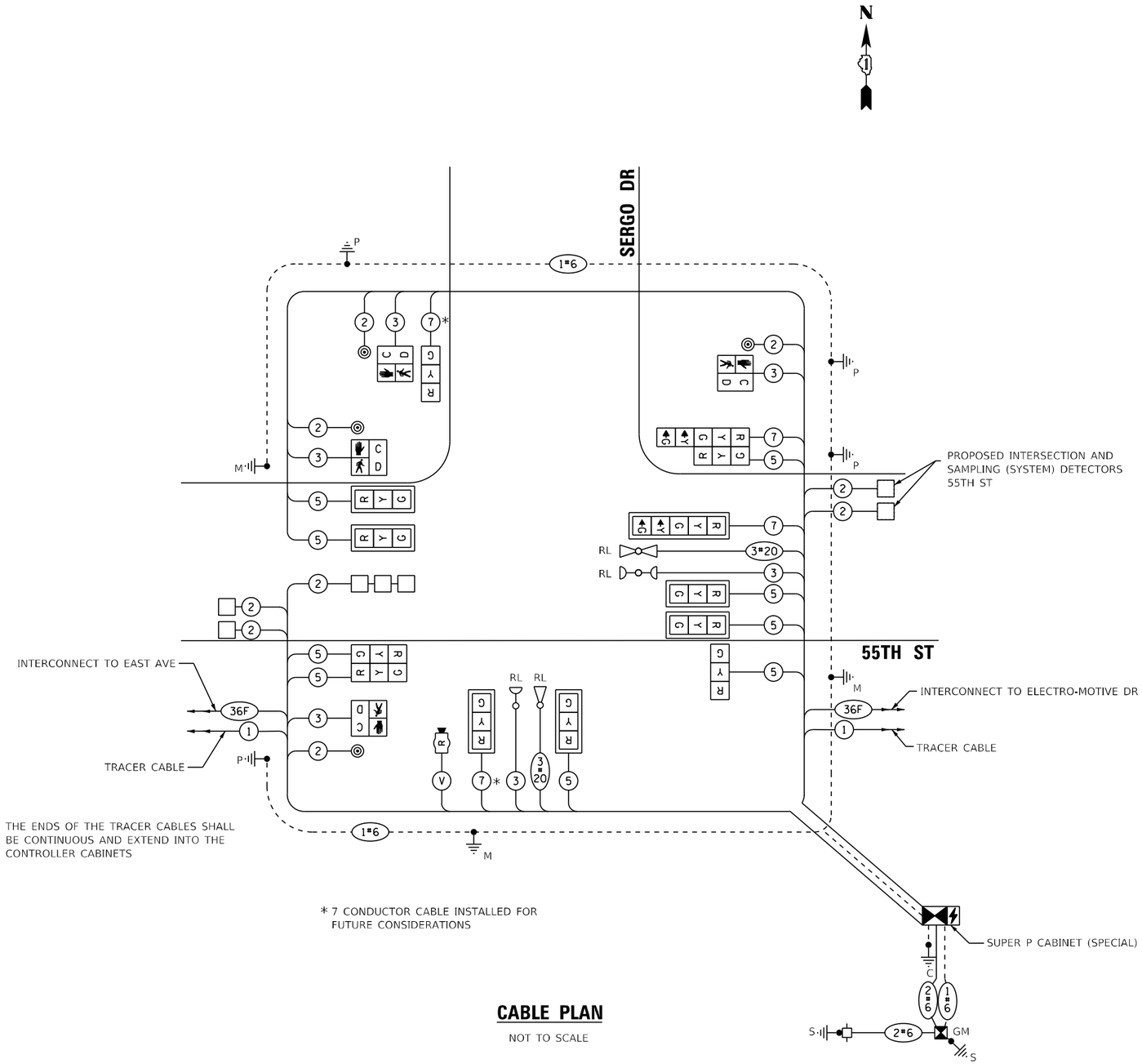


PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



LEGEND:

- PROTECTED PHASE
- PROTECTED/PERMITTED PHASE
- PEDESTRIAN PHASE
- ✱ NUMBER REFERS TO ASSOCIATED PHASE



* 7 CONDUCTOR CABLE INSTALLED FOR FUTURE CONSIDERATIONS

CABLE PLAN

NOT TO SCALE

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	13	11	50	71.5
(YELLOW)	13	20	5	13
(GREEN)	13	12	45	70.2
PERMISSIVE ARROW	4	10	10	4
PED. SIGNAL	4	20	100	80
CONTROLLER	1	100	100	100
UPS	1	25	100	25
			TOTAL =	363.7

ENERGY COSTS TO:

VILLAGE OF McCOOK
5000 GLENCOE AVE
McCOOK, IL 60525

ENERGY SUPPLY: CONTACT: ILYAS MOHIUDDIN
PHONE: 708-235-2692
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER: ---

TS 11086
EAGLE 2B

TS SHT NO. 51

FILE NAME = D:\Engineering\LiveProjects\3031 IDOT East Ave\CADD\CADD Sheets\Civil\D1625Z5-sht-ts proplog 55TH Sergo.dgn

Accurate GROUP, INC.	USER NAME = jschumann	DESIGNED - LC	REVISED -
		DRAWN - MS	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED - TGM	REVISED -
	PLOT DATE = 8/5/2021	DATE - 07/30/2021	REVISED -

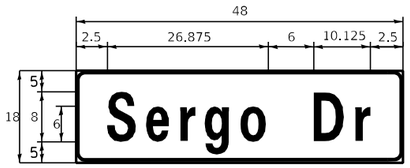
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, CONTROLLER SEQUENCE AND EMERGENCY VEHICLE PREEMPTION SEQUENCE - 55TH ST AT SERGO DR
EAST AVENUE (55TH ST TO JOLIET RD)

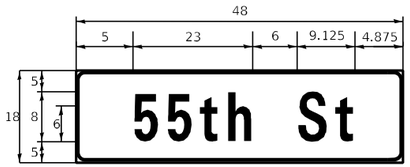
SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	426	258
		CONTRACT NO. 62C25		
		ILLINOIS	FED. AID PROJECT	

SIGN PANEL – TYPE 1



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	6	1	ZZ	2



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	6	1	ZZ	1

SCHEDULE OF QUANTITIES

	ITEM DESCRIPTION	UNIT	TOTAL QTY
	SIGN PANEL - TYPE 1	SQ FT	18
	UNDERGROUND CONDUIT, GALVANIZED STEEL 2" DIA.	FOOT	701
	UNDERGROUND CONDUIT, GALVANIZED STEEL 3" DIA.	FOOT	64
	UNDERGROUND CONDUIT, GALVANIZED STEEL 4" DIA.	FOOT	350
	HANDHOLE	EACH	4
	HEAVY-DUTY HANDHOLE	EACH	1
	DOUBLE HANDHOLE	EACH	2
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	756
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1006
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1284
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	627
	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PR	FOOT	1646
	ELECTRIC CABLE IN CONDUIT, SERVICE NO. 6 2C	FOOT	166
	ELECTRIC CABLE IN CONDUIT, EQUIP. GROUNDING CONDUCTOR, NO. 6 1C	FOOT	487
	TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FOOT	EACH	1
	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FOOT	EACH	3
	STEEL MAST ARM ASSEMBLY AND POLE, 22 FOOT	EACH	1
	STEEL MAST ARM ASSEMBLY AND POLE, 30 FOOT	EACH	1
	STEEL MAST ARM ASSEMBLY AND POLE, 34 FOOT	EACH	1
	CONCRETE FOUNDATION, TYPE A	FOOT	16
	CONCRETE FOUNDATION, TYPE C	FOOT	4
	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	11
	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	24
	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	6
	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	5
	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1
	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	1
	PED. SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED W/COUNTDOWN TIMER	EACH	4
	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	7
	INDUCTIVE LOOP DETECTOR	EACH	5
	DETECTOR LOOP, TYPE I	FOOT	227
	PEDESTRIAN PUSH BUTTON	EACH	4
	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
*	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	2
*	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1
	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
	REMOVE EXISTING HANDHOLE	EACH	8
	REMOVE EXISTING DOUBLE HANDHOLE	EACH	1
	REMOVE EXISTING CONCRETE FOUNDATION	EACH	9
*	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	230
	FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET (SPECIAL)	EACH	1
	SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
	RADAR VEHICLE DETECTION SYSTEM, SINGLE APPROACH, STOP BAR	EACH	1
	UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1

* 100% COST TO THE VILLAGE OF McCOOK

TS SHT NO. 52

FILE NAME = D:\Engineering\LivePrjects\13831 IDOT East Ave\CADD\CADD Sheets\Civil\D1822C25-Sht-TS Signs 55th Sergo.dgn

TS 11086
EAGLE 2B

Accurate GROUP, INC.

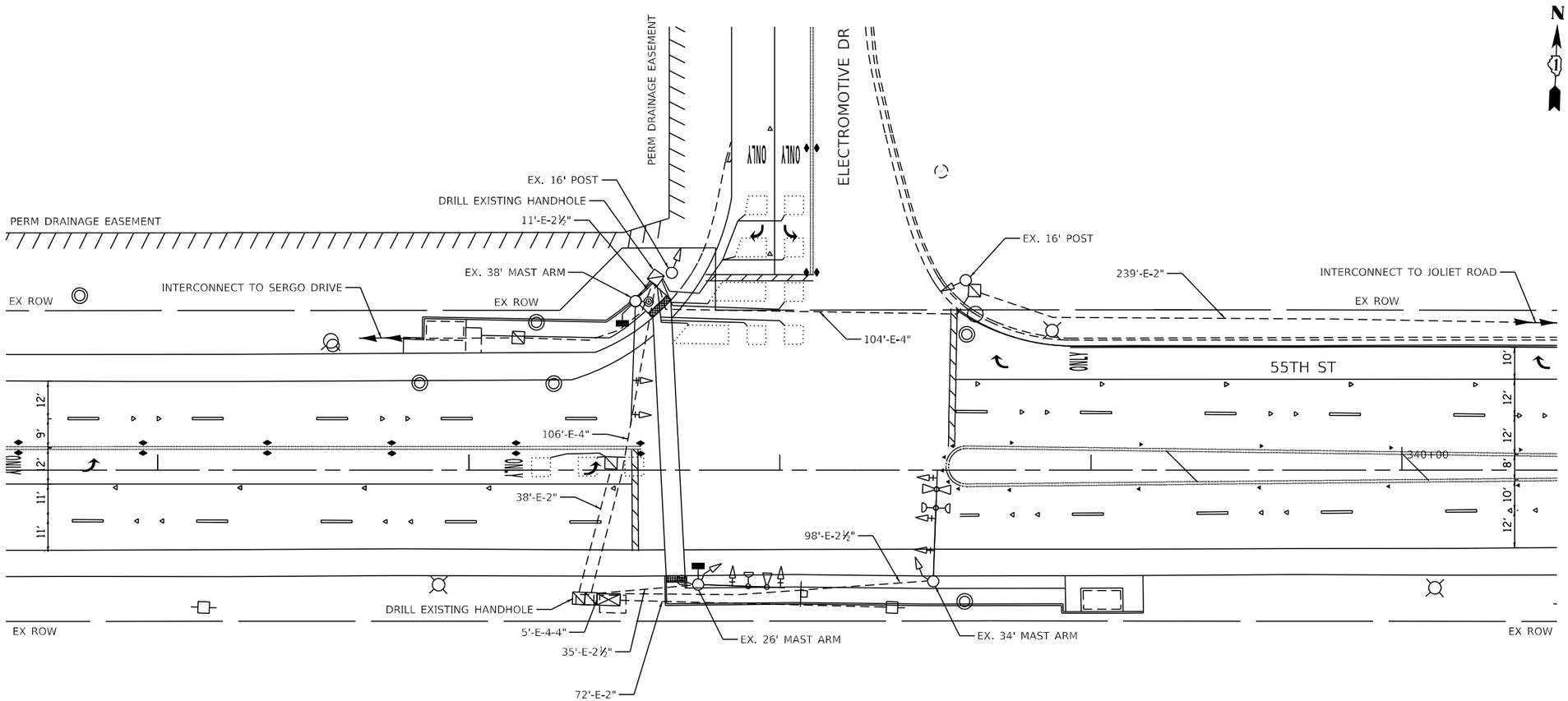
USER NAME = jschumann	DESIGNED - LC	REVISED -
	DRAWN - MS	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - TGM	REVISED -
PLOT DATE = 8/5/2021	DATE - 07/30/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAST ARM MOUNTED STREET NAME SIGNS AND SCHEDULE OF QUANTITIES - 55TH ST AT SERGO DR EAST AVENUE (55TH ST TO JOLIET RD)

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	426	259
		CONTRACT NO. 62C25		
		ILLINOIS FED. AID PROJECT		



NOTES:

1. THE CONTRACTOR SHALL CHECK THE PROPOSED TRAFFIC SIGNAL EQUIPMENT LOCATIONS FOR OVERHEAD UTILITY CONFLICTS. THE CONTRACTOR SHALL COORDINATE ANY CONFLICTS WITH THE UTILITY COMPANIES AND THE RESIDENT ENGINEER BEFORE ORDERING MATERIALS.
2. ALL STATION AND OFFSET CALLOUTS FOR NEW EQUIPMENT ARE APPROXIMATE.

NOTE:
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING SYSTEM.

TS 11080
EAGLE 2B

TS SHT NO. 53

FILE NAME = D:\Engineering\Live Projects\13031 IDOT East Ave\CADD\CADD Sheets\Civil\D1862C25-Sht-Prop1955th-ElectroMotor.dgn

Accurate GROUP, INC.

USER NAME = jschumann	DESIGNED - JJD	REVISED -
	DRAWN - JJD	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - JMT	REVISED -
PLOT DATE = 8/5/2021	DATE - 07/30/2021	REVISED -

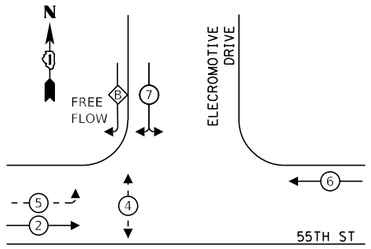
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL INSTALLATION PLAN
55TH ST AT ELECTROMOTIVE DR
EAST AVENUE (55TH ST TO JOLIET RD)

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	426	260
		CONTRACT NO. 62C25		
	ILLINOIS FED. AID PROJECT			

PROPOSED CONTROLLER SEQUENCE



LEGEND:

- PROTECTED PHASE
- PROTECTED/PERMITTED PHASE
- PEDESTRIAN PHASE
- OL — OVERLAP
- ✱ NUMBER REFERS TO ASSOCIATED PHASE

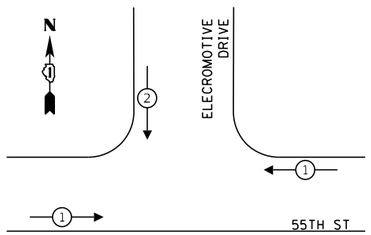
RIGHT TURN OVERLAP PHASE DESIGNATION:

OVERLAP LETTER		PERMISSIVE PHASE		PROTECTED PHASE
B	=	7	+	5

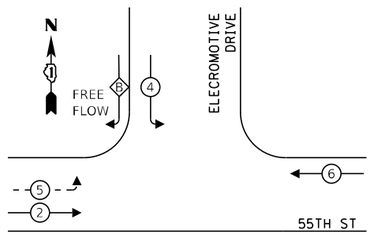
SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNIT	TOTAL QTY
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	230
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	240
PED. SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED W/COUNTDOWN TIMER	EACH	2
PEDESTRIAN PUSH BUTTON	EACH	2
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
MODIFY EXISTING CONTROLLER	EACH	1
MODIFY EXISTING CONTROLLER CABINET	EACH	1
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



EXISTING CONTROLLER SEQUENCE

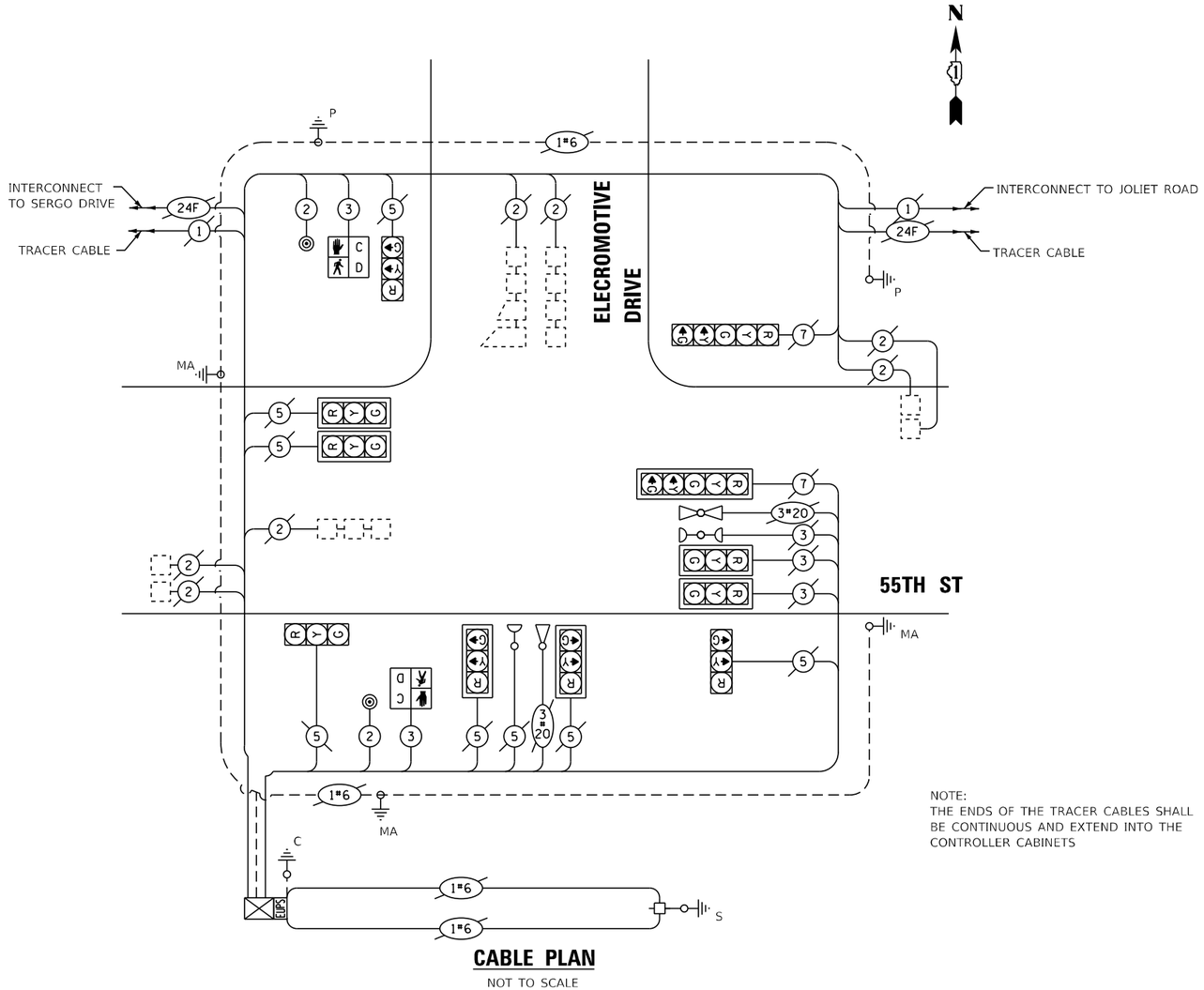


TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	11	11	50	61
(YELLOW)	7	20	5	7
(GREEN)	7	12	45	38
PERMISSIVE ARROW	12	10	10	12
PED. SIGNAL	2	20	100	40
CONTROLLER	1	100	100	100
UPS	1	25	100	25
			TOTAL =	283

ENERGY COSTS TO:
ELECTRO-MOTIVE
9301 W 55TH ST
MCCOOK, IL 60525

ENERGY SUPPLY: CONTACT: ILYAS MOHIUDDIN
PHONE: 708-235-2692
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER: ---



NOTE:
THE ENDS OF THE TRACER CABLES SHALL BE CONTINUOUS AND EXTEND INTO THE CONTROLLER CABINETS

CABLE PLAN

NOT TO SCALE

TS 11080
EAGLE 2B

TS SHEET NO. 54

FILE NAME = D:\Engineering\LiveProjects\3831 IDOT East Ave\CADD\CADD Sheets\Civil\D1826225-sht-ts cable plan - 55th and ElectroMotor.dgn

Accurate GROUP, INC.

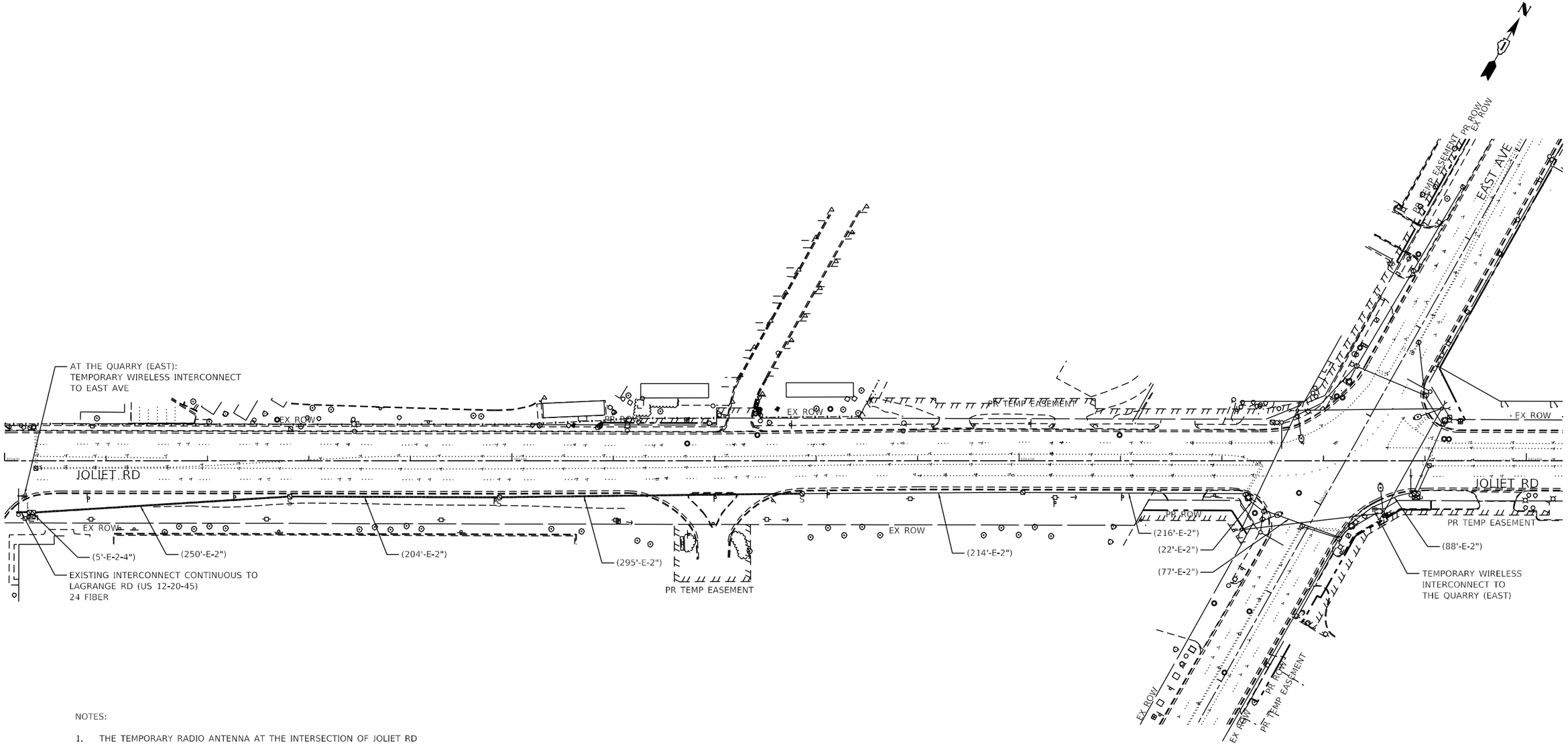
USER NAME = jschumann	DESIGNED - JJD	REVISED -	
	DRAWN - JJD	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - JMT	REVISED -	
PLOT DATE = 8/5/2021	DATE - 07/30/2021	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, CONTROLLER SEQUENCE, EMERGENCY VEHICLE, AND SOQ
55TH ST AT ELECTROMOTIVE DR
EAST AVENUE (55TH ST TO JOLIET RD)

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	426	261
		CONTRACT NO. 62C25		
		ILLINOIS	FED. AID PROJECT	



NOTES:

1. THE TEMPORARY RADIO ANTENNA AT THE INTERSECTION OF JOLIET RD AND THE QUARRY (EAST) SHALL BE INSTALLED ON THE MAST ARM ASSEMBLY AND POLE AS SHOWN. THE CABLE FROM THE ANTENNA SHALL BE INSTALLED IN THE EXISTING CONDUITS BETWEEN THE ANTENNA AND THE EXISTING CONTROLLER. THE ANTENNA AND ALL ASSOCIATED CABLES SHALL BE REMOVED UPON COMPLETION OF THE PROPOSED FIBER OPTIC INTERCONNECT SYSTEM. ANY HOLES IN THE MAST ARM SHALL BE PLUGGED. ALL OF THIS WORK IS INCLUDED AS PART OF THE TEMPORARY TRAFFIC SIGNAL INSTALLATION.

EAGLE 2B

TS SHT NO. 55

FILE NAME = D:\Engineering\LivePro jects\13031 IDOT East Ave\CADD\CADD Sheets\Civil\D1622C25-sht-TS Temp Interconnect Joliet.dgn

Accurate GROUP, INC.

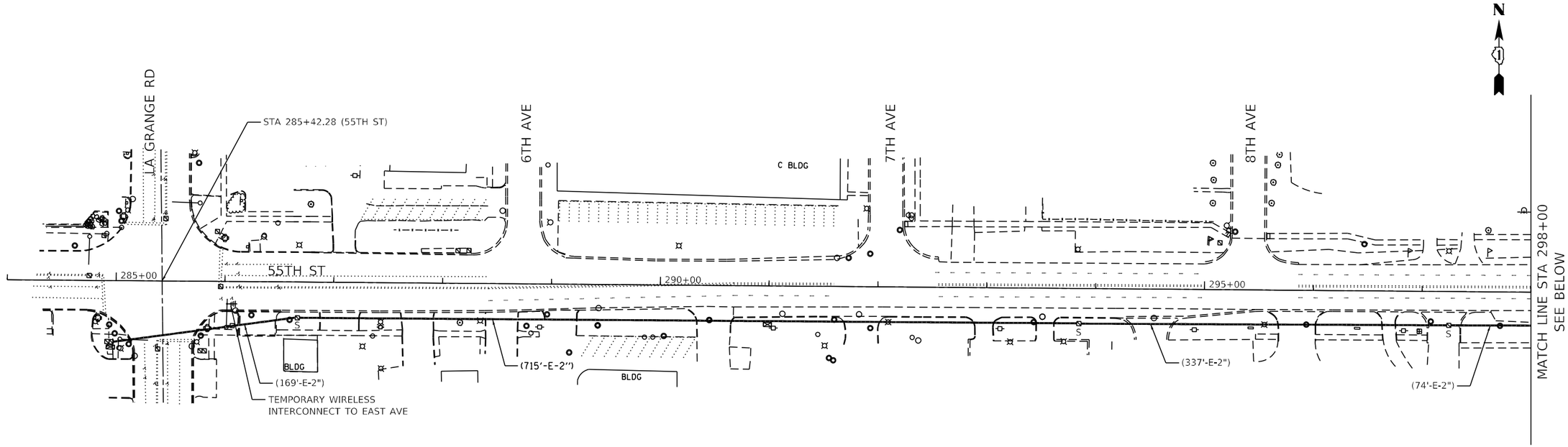
USER NAME = jschumann	DESIGNED - LC	REVISED -
	DRAWN - MS	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED - TGM	REVISED -
PLOT DATE = 8/5/2021	DATE - 07/30/2021	REVISED -

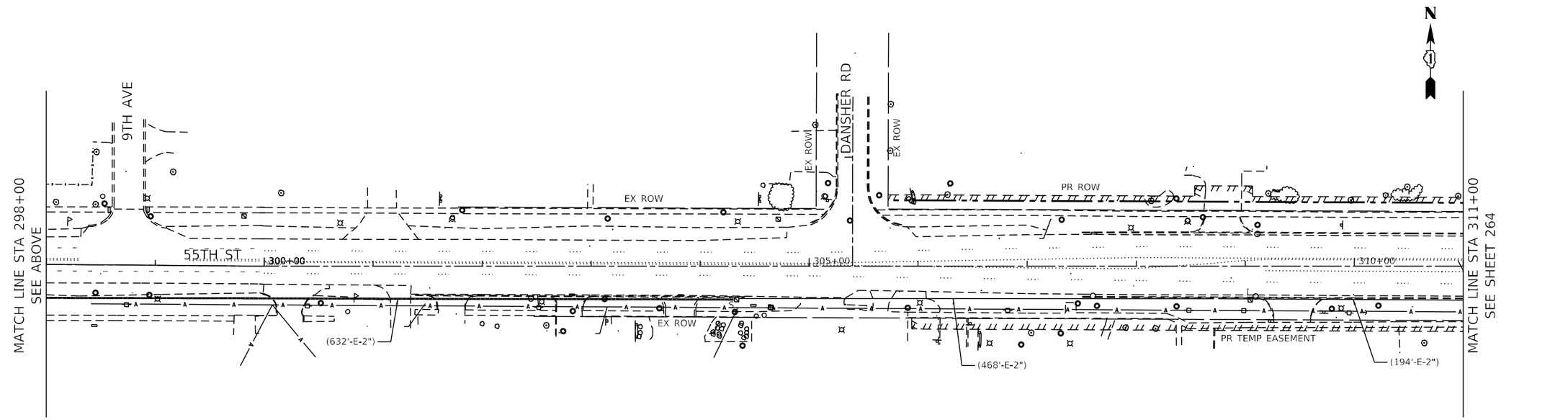
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INTERCONNECT PLAN – I
EAST AVENUE (55TH ST TO JOLIET RD)

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	426	262
		CONTRACT NO. 62C25		
	ILLINOIS FED. AID PROJECT			





EAGLE 2B

TS SHT NO. 56

FILE NAME = D:\Engineering\LivePro jects\13031 IDOT East Ave\CADD\CADD Sheets\Civil\D1625C25-sht-TS Temp Interconnect 55th.dgn

Accurate GROUP, INC.

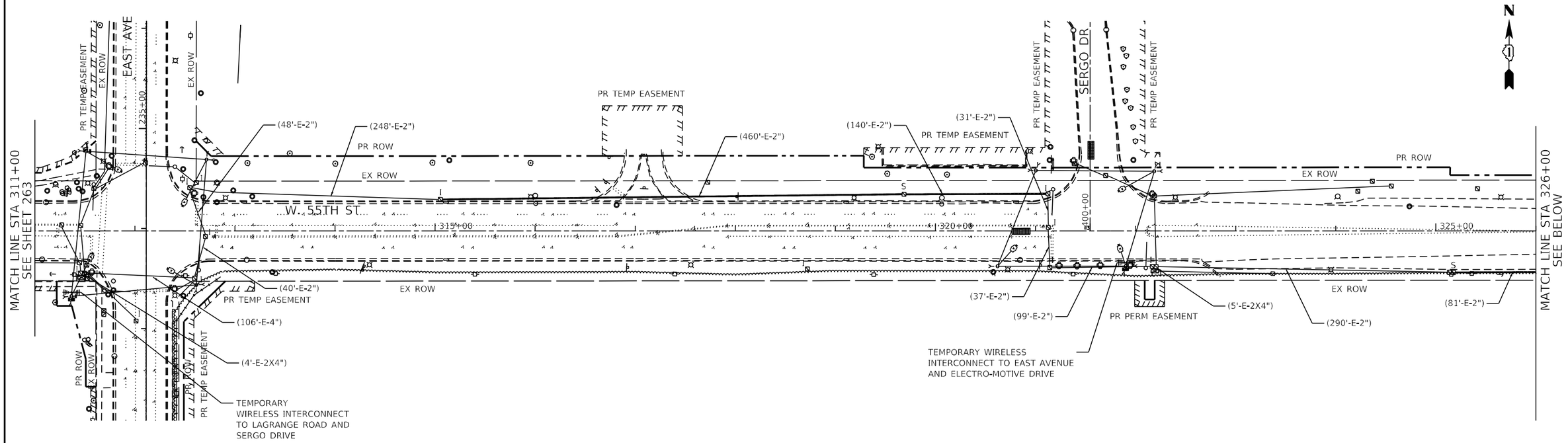
USER NAME = jschumann	DESIGNED - LC	REVISED -
	DRAWN - MS	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED - TGM	REVISED -
PLOT DATE = 8/5/2021	DATE - 07/30/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INTERCONNECT PLAN – II
EAST AVENUE (55TH ST TO JOLIET RD)

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	426	263
		CONTRACT NO. 62C25		
		ILLINOIS FED. AID PROJECT		



EAGLE 2B

TS SHT NO. 57

FILE NAME = D:\Engineering\LiveProjects\13031 IDOT East Ave\CADD\CADD Sheets\Civil\0102C25-sht-TS Temp Interconnect East at Sergo 55th.dgn

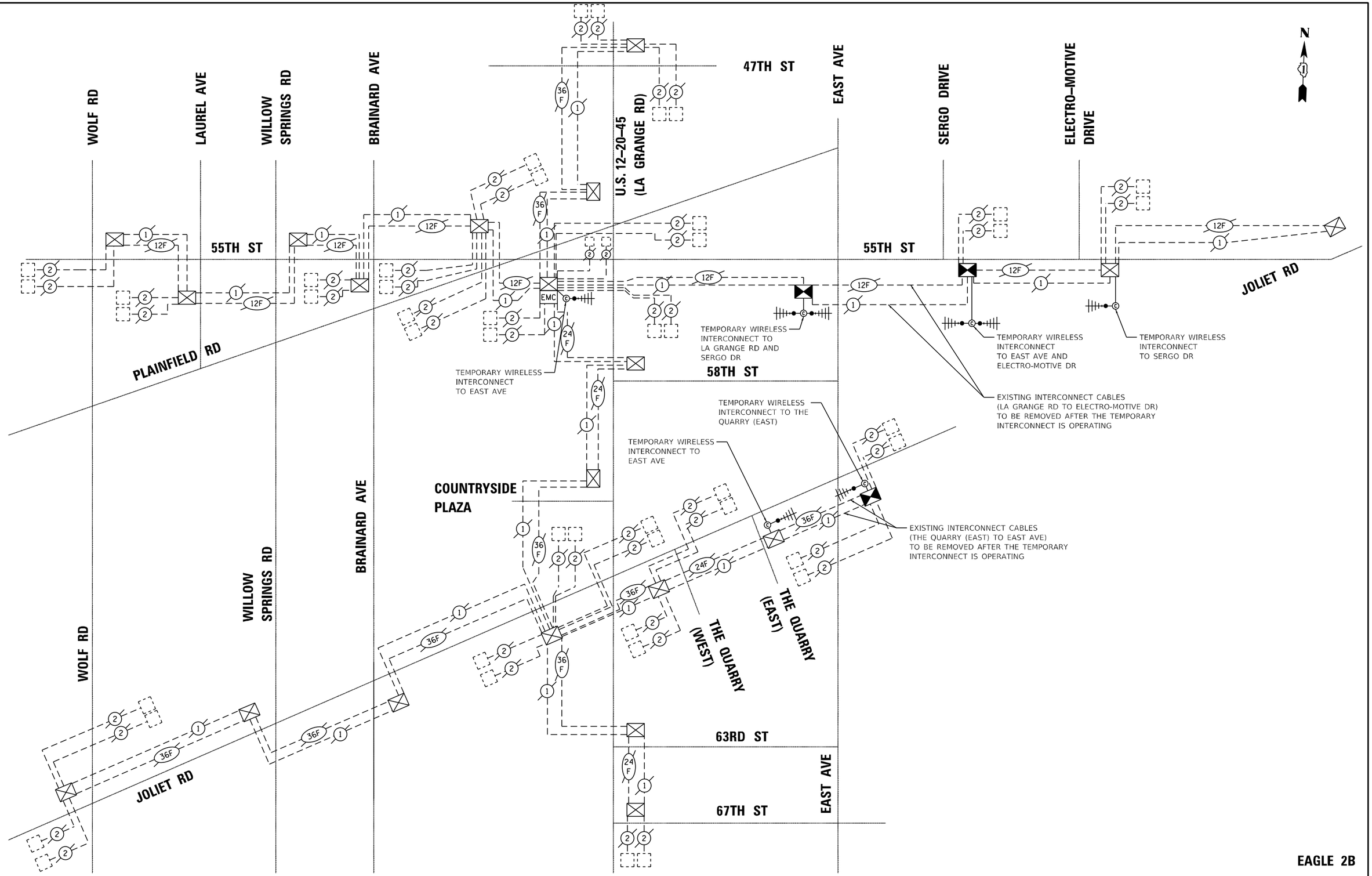
Accurate GROUP, INC.	USER NAME = jschumann	DESIGNED - LC	REVISED -
		DRAWN - MS	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED - TGM	REVISED -
	PLOT DATE = 8/5/2021	DATE - 07/30/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INTERCONNECT PLAN - III
EAST AVENUE (55TH ST TO JOLIET RD)

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	426	264
		CONTRACT NO. 62C25		
		ILLINOIS FED. AID PROJECT		



TS SHT NO. 58

EAGLE 2B

FILE NAME = D:\Engineering\LiveProjects\13031 IDOT East Ave\CADD\CADD Sheets\Civil\0102C25-sht-Temporary Interconnect Schematic.dgn

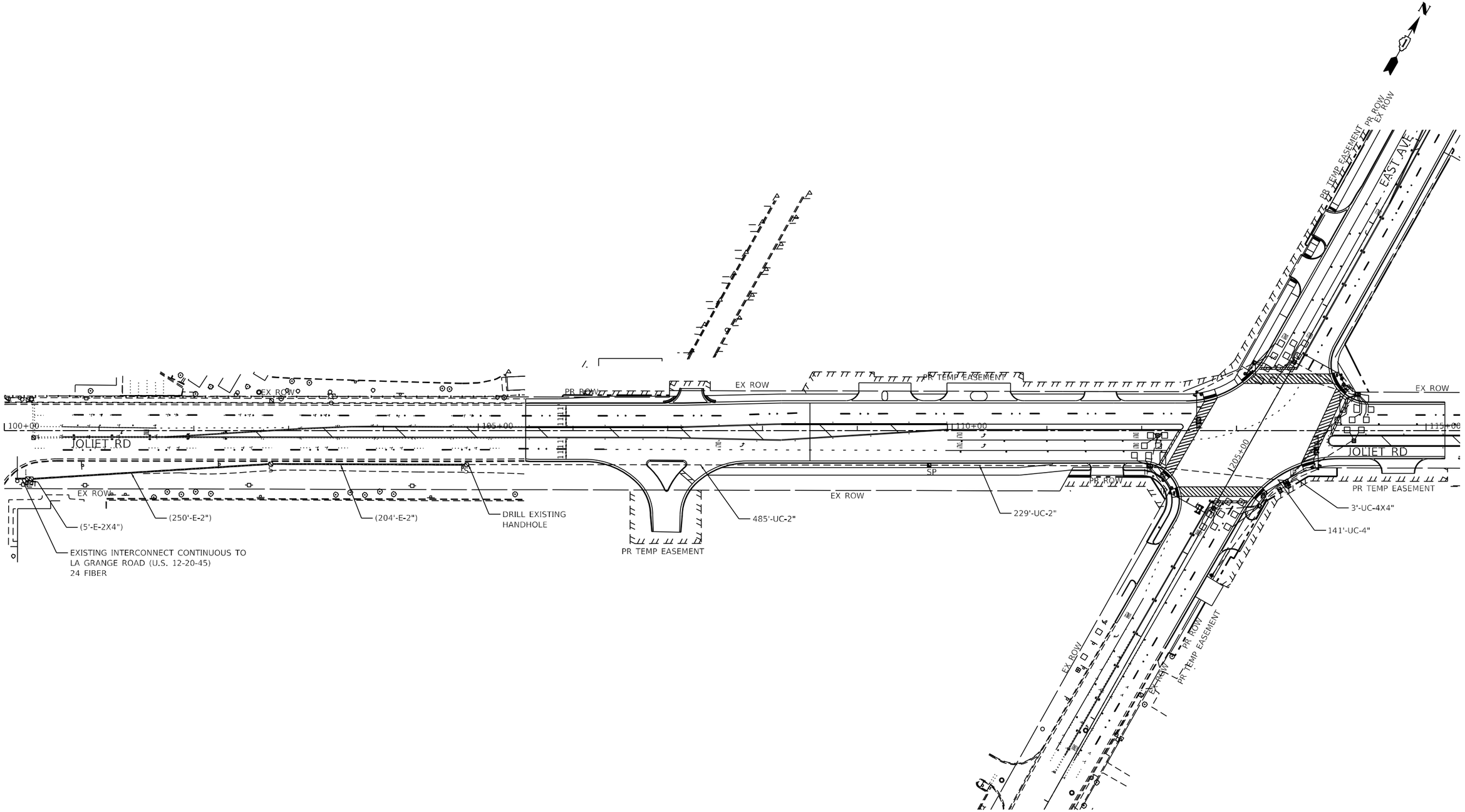
Accurate GROUP, INC.	USER NAME = jschumann	DESIGNED - LC	REVISED -
		DRAWN - MS	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED - TGM	REVISED -
	PLOT DATE = 8/5/2021	DATE - 07/30/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY INTERCONNECT SCHEMATIC
EAST AVENUE (55TH ST TO JOLIET RD)

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	426	265
		CONTRACT NO. 62C25		
		ILLINOIS	FED. AID PROJECT	



EAGLE 2B

TS SHT NO. 59

FILE NAME = D:\Engineering\LiveProjects\13031 IDOT East Ave\CADD\CADD Sheets\Civil\ND162C25-sht-TS Prop Interconnect Joliet.dgn

Accurate GROUP, INC.

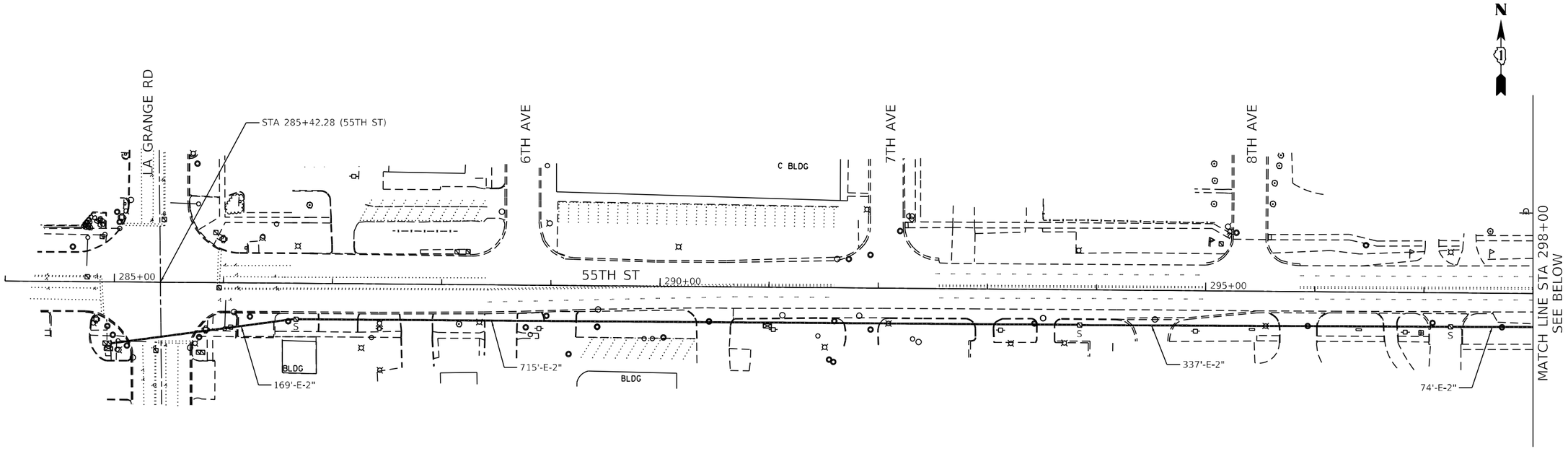
USER NAME = jschumann	DESIGNED - LC	REVISED -
	DRAWN - MS	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED - TGM	REVISED -
PLOT DATE = 8/5/2021	DATE - 07/30/2021	REVISED -

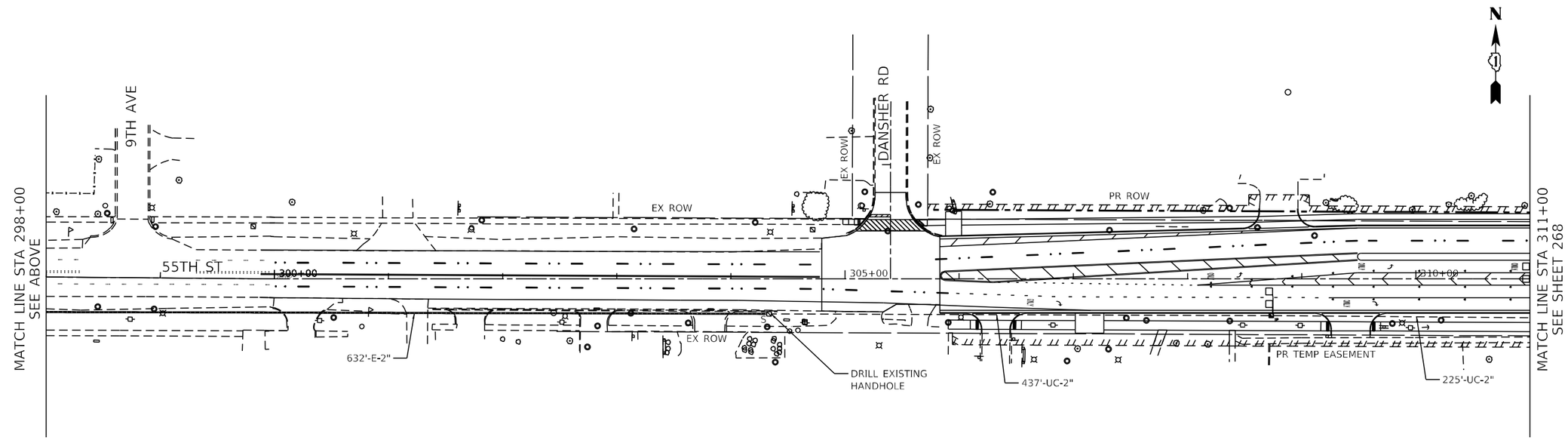
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED TRAFFIC SIGNAL INTERCONNECT PLAN – I
EAST AVENUE (55TH ST TO JOLIET RD)

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	426	266
		CONTRACT NO. 62C25		
	ILLINOIS	FED. AID PROJECT		





EAGLE 2B

TS SHT NO. 60

FILE NAME = D:\Engineering\LivePrjects\13031 IDOT East Ave\CADD\CADD Sheets\Civil\016225-sht-TS Prop Interconnect 55th.dgn

Accurate GROUP, INC.

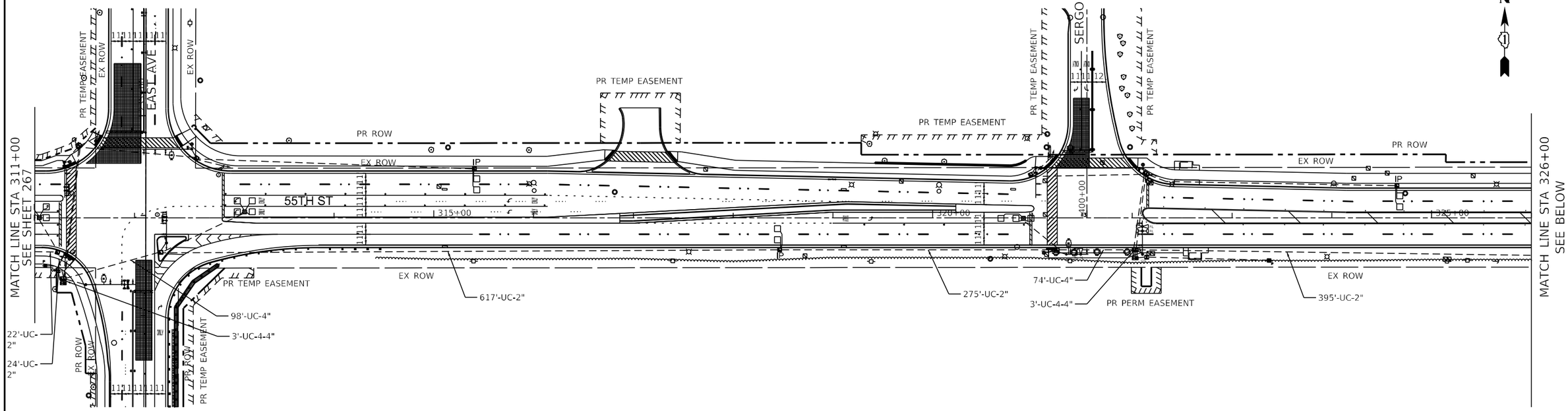
USER NAME = jschumann	DESIGNED - LC	REVISED -
	DRAWN - MS	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED - TGM	REVISED -
PLOT DATE = 8/5/2021	DATE - 07/30/2021	REVISED -

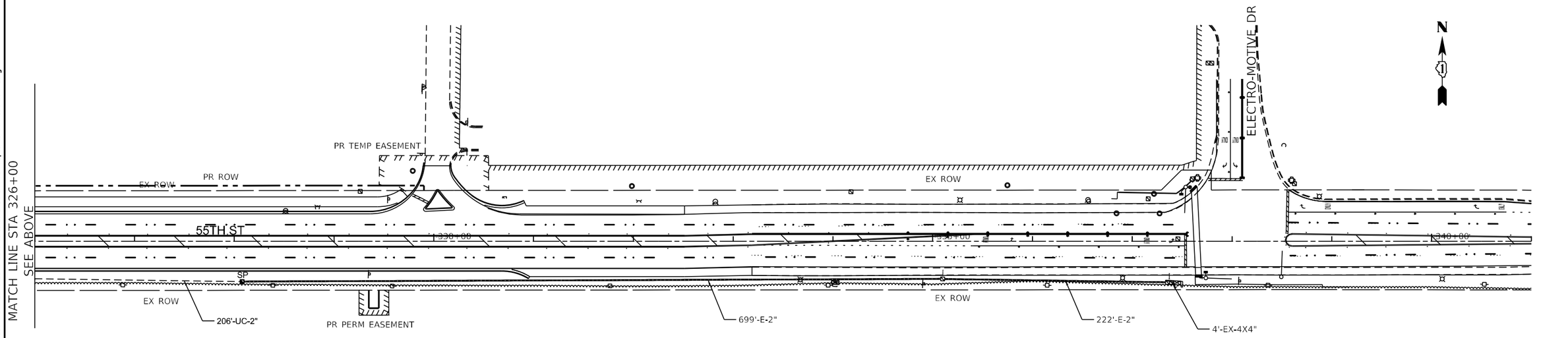
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED TRAFFIC SIGNAL INTERCONNECT PLAN - II
EAST AVENUE (55TH ST TO JOLIET RD)

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	426	267
		CONTRACT NO. 62C25		
		ILLINOIS FED. AID PROJECT		





EAGLE 2B

TS SHT NO. 61

FILE NAME = D:\Engineering\LiveProjects\13031 IDOT East Ave\CADD\CADD Sheets\Civil\0102C25-sht-TS Prop Interconnect 55th-2.dgn

Accurate GROUP, INC.

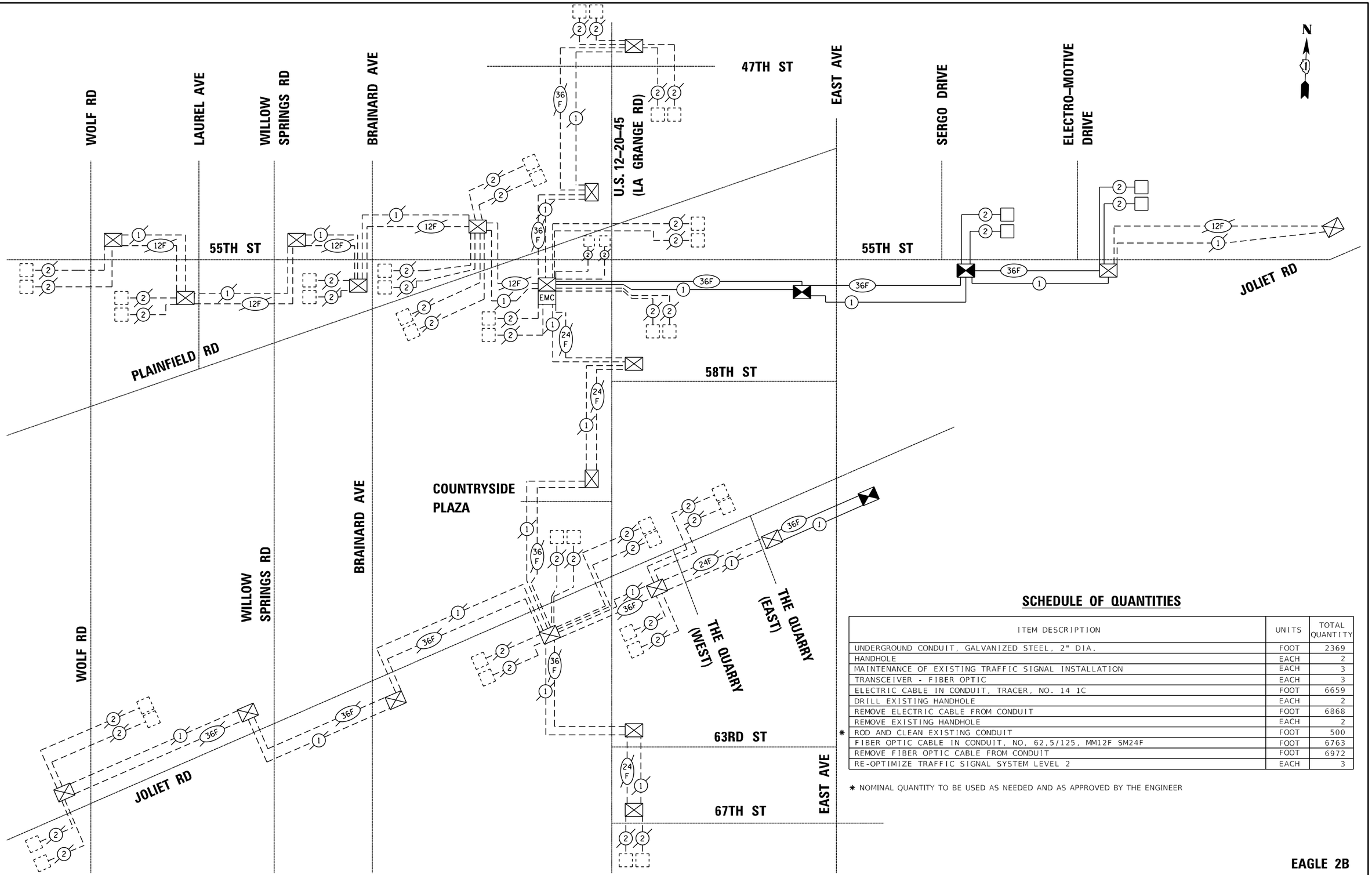
USER NAME = jschumann	DESIGNED - LC	REVISED -
	DRAWN - MS	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED - TGM	REVISED -
PLOT DATE = 8/5/2021	DATE - 07/30/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED TRAFFIC SIGNAL INTERCONNECT PLAN - III
EAST AVENUE (55TH ST TO JOLIET RD)

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	426	268
		CONTRACT NO. 62C25		
		ILLINOIS	FED. AID PROJECT	



SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QUANTITY
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	2369
HANDHOLE	EACH	2
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	3
TRANSCEIVER - FIBER OPTIC	EACH	3
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	6659
DRILL EXISTING HANDHOLE	EACH	2
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	6868
REMOVE EXISTING HANDHOLE	EACH	2
* ROD AND CLEAN EXISTING CONDUIT	FOOT	500
FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F	FOOT	6763
REMOVE FIBER OPTIC CABLE FROM CONDUIT	FOOT	6972
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	3

* NOMINAL QUANTITY TO BE USED AS NEEDED AND AS APPROVED BY THE ENGINEER

EAGLE 2B

TS SHT NO. 62

FILE NAME = D:\Engineering\LiveProjects\13831 IDOT East Ave\CADD\CADD Sheets\Civil\D1622Z5-sht-Prop Interconnect Schematic.dgn

Accurate GROUP, INC.

USER NAME = jschumann	DESIGNED - LC	REVISED -	
	DRAWN - MS	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - TGM	REVISED -	
PLOT DATE = 8/5/2021	DATE - 07/30/2021	REVISED -	

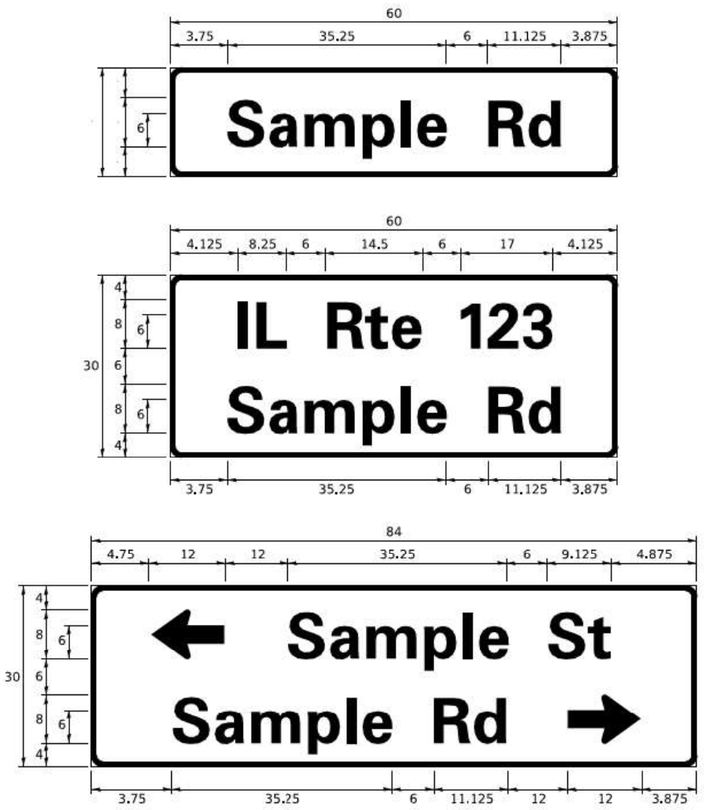
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED INTERCONNECT SCHEMATIC
EAST AVENUE (55TH ST TO JOLIET RD)

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	426	269
		CONTRACT NO. 62C25		
	ILLINOIS FED. AID PROJECT			

SIGN PANEL – TYPE 1 OR TYPE 2



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D OR C	-	1 OR 2	ZZ	-

COMMON STREET NAME ABBREVIATIONS AND WIDTHS

NAME	ABBREVATION	WIDTH (INCH)	
		SERIES "C"	SERIES "D"
AVENUE	Ave	15.000	18.250
BOULEVARD	Blvd	17.125	20.000
CIRCLE	Clr	11.125	13.000
COURT	Ct	8.250	9.625
DRIVE	Dr	8.625	10.125
HIGHWAY	Hwy	18.375	22.000
ILLINOIS	IL	7.000	8.250
LANE	Ln	9.125	10.750
PARKWAY	Pkwy	23.375	27.375
PLACE	Pl	7.125	7.750
ROAD	Rd	9.625	11.125
ROUTE	Rte	12.625	14.500
STREET	St	8.000	9.125
TERRACE	Ter	12.625	14.625
TRAIL	Tr	7.750	9.125
UNITED STATES	US	10.375	12.250

GENERAL NOTES

1. WHERE MAST ARM MOUNTED STREET NAME SIGNS ARE SPECIFIED, THE MAST ARM ASSEMBLY AND POLES SHALL BE DESIGNED TO SUPPORT THE LOADINGS CALLED FOR ON STANDARDS 877001, 877002, 877006, 877011 AND 877012, AS APPLICABLE, PLUS TWO (2) SIGN PANELS 2'-6" x 8'-0" MOUNTED AS SHOWN. THE DESIGN SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS" AS PUBLISHED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS FOR 80 M.P.H. WIND VELOCITY.
2. ALL SIGNS SHALL CONSIST OF A WHITE LEGEND AND BORDER (TYPE ZZ SHEETING) ON A GREEN BACKGROUND (TYPE ZZ SHEETING)
3. THE SIGN LENGTH SHALL BE IN 6-INCH INCREMENTS, BUT THE OVERALL LENGTH SHALL NOT EXCEED 8'-0". ALL BORDERS IF POSSIBLE, BUT MAY BE REDUCED TO 5" WHEN SPACING IS CRITICAL. A MINIMUM OF 2-1/2" SHALL BE INCLUDED BETWEEN THE WORD AND THE RIGHT AND LEFT EDGES OF THE SIGN.
4. A PREFERRED METHOD FOR THE SIGN DESIGN IS TO USE SERIES "D" LETTER ON A ONE-LINE SIGN 18" IN HEIGHT AND A MAXIMUM OF 8'-0" IN WIDTH. IF SERIES "D" DOES NOT FIT ON A 8"-0" SIGN, THEN SERIES "C" SHOULD BE TRIED. IF SERIES "C" DOES NOT FIT ON A 8'-0" SIGN, A 30" HIGH TWO-LINE SIGN CAN BE USED. THE CROSSROAD DESIGNATION AS TO STREET, AVENUE, ETC. SHOULD BE SPELLED OUT ON THE SECOND LINE, IF THE ABBREVIATION CANNOT FIT ON THE FIRST LINE.
5. LED ILLUMINATED STREET NAME SIGNS CAN BE USED IN PLACE OF REGULAR SIGN PANELS BUT ANY SPECIAL WORDING AND SYMBOLOGY MUST BE APPROVED BY THE DEPARTMENT. GENERAL DESIGN REQUIREMENT AS LISTED ABOVE (COLOR, FONT, SIZE, ETC.) MUST BE FOLLOWED.
6. SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM SHALL BE USED FOR ALL SIGNS ATTACHED TO SIGNAL POLES AND POSTS.

LOCAL SUPPLIERS:

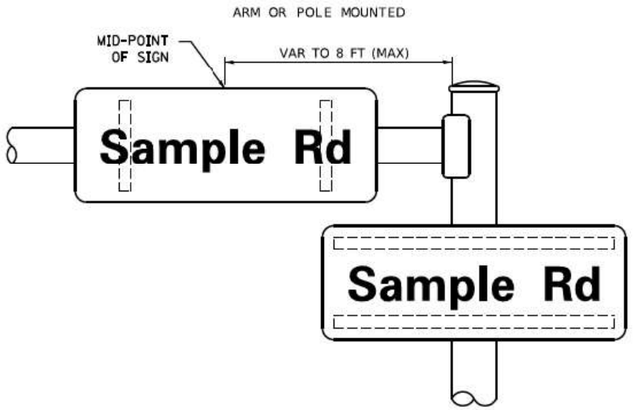
- J.O. HERBERT COMPANY, INC
  MIDLOTHIAN, VA
- WESTERN REMAC, INC.
  WOODRIDGE, IL

PARTS LISTING:

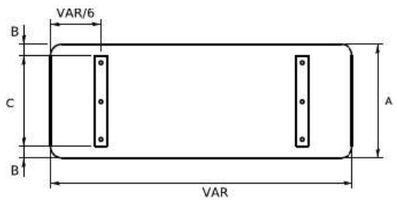
SIGN CHANNEL	PART #HPN053 (MED. CHANNEL)
SIGN SCREWS	1/4" x 14 x 1" H.W.H. #3 SELF TAPPING WITH NEOPRENE WASHER
BRACKETS	PART #HPN034 (UNIVERSAL) CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING

OTHER BRANDS OF MOUNTING HARDWARE ARE ACCEPTABLE, BASED UPON THE DEPARTMENT'S APPROVAL AND COMPATIBILITY WITH THE CHANNEL/BRACKET OF THE ABOVE PRODUCT.

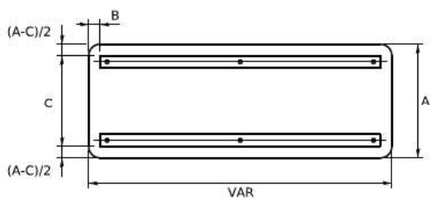
MOUNTING LOCATION



SUPPORTING CHANNELS



A	B	C
18"	2"	14"
30"	2"	24"



A	B	C
18"	2"	12"
30"	2"	22"

STANDARD ALPHABETS SPACING CHART

(8") UPPER CASE AND (6") LOWER CASE

FHWA SERIES "C"				FHWA SERIES "D"			
CHARACTER	LEFT SPACING (INCH)	WIDTH (INCH)	RIGHT SPACING (INCH)	CHARACTER	LEFT SPACING (INCH)	WIDTH (INCH)	RIGHT SPACING (INCH)
A	0.240	5.122	0.240	A	0.240	6.804	0.240
B	0.880	4.482	0.480	B	0.960	5.446	0.400
C	0.720	4.482	0.720	C	0.800	5.446	0.800
D	0.880	4.482	0.720	D	0.960	5.446	0.800
E	0.880	4.082	0.480	E	0.960	4.962	0.400
F	0.880	4.082	0.240	F	0.960	4.962	0.240
G	0.720	4.482	0.720	G	0.800	5.446	0.800
H	0.880	4.482	0.880	H	0.960	5.446	0.960
I	0.880	1.120	0.880	I	0.960	1.280	0.960
J	0.240	4.082	0.880	J	0.240	5.122	0.960
K	0.880	4.482	0.480	K	0.960	5.604	0.400
L	0.880	4.082	0.240	L	0.960	4.962	0.240
M	0.880	5.284	0.880	M	0.960	6.244	0.960
N	0.880	4.482	0.880	N	0.960	5.446	0.960
O	0.720	4.722	0.720	O	0.800	5.684	0.800
P	0.880	4.482	0.720	P	0.960	5.446	0.240
Q	0.720	4.722	0.720	Q	0.800	5.684	0.800
R	0.880	4.482	0.480	R	0.960	5.446	0.400
S	0.480	4.482	0.480	S	0.400	5.446	0.400
T	0.240	4.082	0.240	T	0.240	4.962	0.240
U	0.880	4.482	0.880	U	0.960	5.446	0.960
V	0.240	4.962	0.240	V	0.240	6.084	0.240
W	0.240	6.084	0.240	W	0.240	7.124	0.240
X	0.240	4.722	0.240	X	0.400	5.446	0.400
Y	0.240	5.122	0.240	Y	0.240	6.884	0.240
Z	0.480	4.482	0.480	Z	0.400	5.446	0.400
a	0.320	3.842	0.640	a	0.400	4.562	0.720
b	0.720	4.082	0.480	b	0.800	4.802	0.480
c	0.480	4.002	0.240	c	0.480	4.722	0.240
d	0.480	4.082	0.720	d	0.480	4.802	0.800
e	0.480	4.082	0.320	e	0.480	4.722	0.320
f	0.320	2.480	0.160	f	0.320	2.882	0.160
g	0.480	4.082	0.720	g	0.480	4.802	0.800
h	0.720	4.082	0.640	h	0.800	4.722	0.720
i	0.720	1.120	0.720	i	0.800	1.280	0.800
j	0.000	2.320	0.720	j	0.000	2.642	0.800
k	0.720	4.322	0.160	k	0.800	5.122	0.160
l	0.720	1.120	0.720	l	0.800	1.280	0.800
m	0.720	6.724	0.640	m	0.800	7.926	0.720
n	0.720	4.082	0.640	n	0.800	4.722	0.720
o	0.480	4.082	0.480	o	0.480	4.882	0.480
p	0.720	4.082	0.480	p	0.800	4.802	0.480
q	0.480	4.082	0.720	q	0.480	4.802	0.800
r	0.720	2.642	0.160	r	0.800	3.042	0.160
s	0.320	3.362	0.240	s	0.320	3.762	0.240
t	0.080	2.882	0.080	t	0.080	3.202	0.080
u	0.640	4.082	0.720	u	0.720	4.722	0.800
v	0.160	4.722	0.160	v	0.160	5.684	0.160
w	0.160	7.524	0.160	w	0.160	9.046	0.160
x	0.000	5.202	0.000	x	0.000	6.244	0.000
y	0.160	4.962	0.160	y	0.160	6.004	0.160
z	0.240	3.362	0.240	z	0.240	4.002	0.240
1	0.720	1.680	0.880	1	0.800	2.000	0.960
2	0.480	4.482	0.480	2	0.800	5.446	0.800
3	0.480	4.482	0.480	3	1.440	5.446	0.800
4	0.240	4.962	0.720	4	0.160	6.004	0.960
5	0.480	4.482	0.480	5	0.800	5.446	0.800
6	0.720	4.482	0.720	6	0.800	5.446	0.800
7	0.240	4.482	0.720	7	0.560	5.446	0.560
8	0.480	4.482	0.480	8	0.800	5.446	0.800
9	0.480	4.482	0.480	9	0.800	5.446	0.800
0	0.720	4.722	0.720	0	0.800	5.684	0.800
-	0.240	2.802	0.240	-	0.240	2.802	0.240

TS SHT NO. 63

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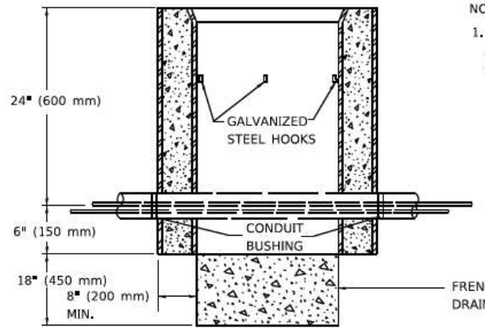
	DRAWN - LP	REVISED -	
PLOT SCALE = 50.0000 ' / in.	CHECKED - JP	REVISED -	
PLOT DATE = 3/4/2019	DATE - 10/01/2014	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
MAST ARM MOUNTED STREET NAME SIGNS

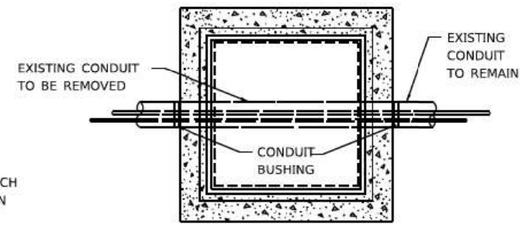
SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	D1D2N&T	COOK	426	270
	TS-02	CONTRACT NO. 62C25		
	ILLINOIS FED. AID PROJECT			



NOTES:

1. REMOVAL OF EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHING SHALL BE INCIDENTAL TO THE HANDHOLE.



ELEVATION **PLAN**

DETAIL

HANDHOLE TO INTERCEPT EXISTING CONDUIT

TS SHT NO. 64

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	DRAWN -	REVISED -	
PLOT SCALE = 50.0000 ' / In.	CHECKED -	REVISED -	
PLOT DATE = 3/4/2019	DATE -	REVISED -	

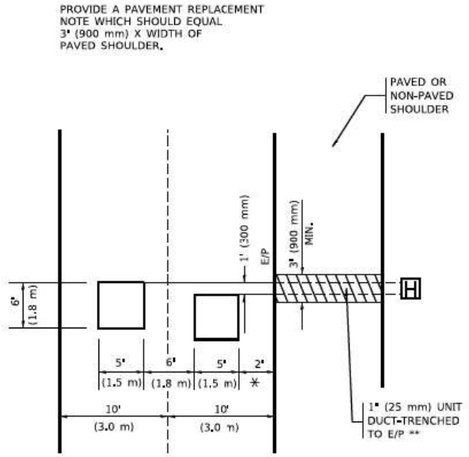
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HANDHOLE TO INTERCEPT EXISTING CONDUIT

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	D102N&T	COOK	426	271
	TS-03	CONTRACT NO. 62C25		
	ILLINOIS FED. AID PROJECT			

LOOPS NEXT TO SHOULDERS

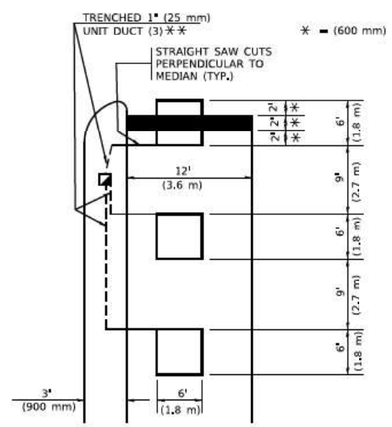


* = (600 mm)

** UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

LEFT TURN LANES WITH MEDIANS

VOLUME DENSITY ("FAR OUT" DETECTION)
ON SAME APPROACH
(PROTECTED / PERMITTED LEFT TURN PHASING)

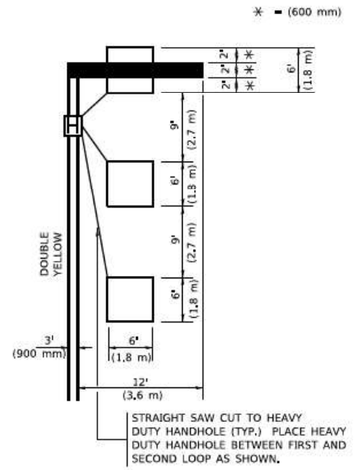


** UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

LEFT TURN LANES WITHOUT MEDIANS

VOLUME DENSITY ("FAR OUT" DETECTION)
ON SAME APPROACH
(PROTECTED / PERMITTED LEFT TURN PHASING)



NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

NOTES:

VEHICLES LOOP DETECTORS

* ALL LEAD IN CABLE SHALL BE TWO CONDUCTOR NO. 14 TWISTED, SHIELDED.
* EACH DETECTOR LOOP SHALL HAVE ITS OWN SAW CUT FROM THE LOOP TO THE EDGE OF PAVEMENT OR TO A HANDHOLE IN THE PAVEMENT.
* EACH DETECTOR LOOP SHALL HAVE ITS OWN ONE INCH (25 mm) UNIT DUCT BETWEEN THE EDGE OF PAVEMENT AND THE FIRST HANDHOLE OR JUNCTION BOX. EACH UNIT DUCT RUN SHALL BE SHOWN ON THE PLANS BY THE DESIGNER, BUT SHALL NOT BE PAID FOR SEPARATLY. THIS ITEM IS INCIDENTAL TO THE PAY ITEM FOR DETECTOR LOOPS.
* ONE DIMENSION OF ALL DETECTOR LOOPS SHALL BE SIX FEET (1.8 m)
* EACH LANE OF NON-LOCKING, PRESENCE DETECTION AND EACH LANE OF A DOUBLE LEFT TURN LANE REQUIRES A SEPARATE INDUCTIVE LOOP DETECTOR AND LEAD IN CABLE.
* WHEN NON-LOCKING, PRESENCE DETECTION IS USED, MORE THAN ONE LOOP PER LANE IS REQUIRED BEHIND THE STOP BAR (i.e. 1-1/2, 1-3/4, 2).
* WHEN SYSTEM LOOPS ARE REQUIRED ON AN APPROACH OF AN INTERSECTION, THE LOOPS USED FOR VOLUME DENSITY AND INTERSECTION TIMING SHALL ALSO BE USED AS SYSTEM DETECTORS. EACH ONE OF THESE TYPE OF LOOPS REQUIRES A SEPARATE TWO CONDUCTOR NO. 14 TWISTED SHIELDED CABLE AND A SEPARATE INDUCTIVE LOOP DETECTOR WHEN NEW CONTROLLERS ARE UTILIZED. THE DESIGNER SHALL LABEL THESE TYPES OF LOOPS AS "INTERSECTION AND SAMPLING (SYSTEM) DETECTORS" ON THE SIGNAL LAYOUT, THE INTERCONNECT PLAN AND THE SYSTEM CABLE PLAN. WHEN AN EXISTING CONTROLLER IS UTILIZED FOR THIS TYPE OF DETECTION, THE PAY ITEM "INDUCTIVE LOOP DETECTOR WITH SYSTEM OUTPUT" SHOULD BE USED.

PLACEMENT OF DETECTORS

THE FOLLOWING FIGURES REPRESENT THE MOST COMMON DETECTOR LOOP LOCATIONS AND SIZES. ADJUSTMENTS WILL BE NECESSARY FOR SPECIFIC GEOMETRIC CONSIDERATIONS.

LOCATIONS AND DEMENSIONS OF DETECTOR LOOPS ARE REQUIRED ON ALL SIGNAL LAYOUT PLAN SHEETS.

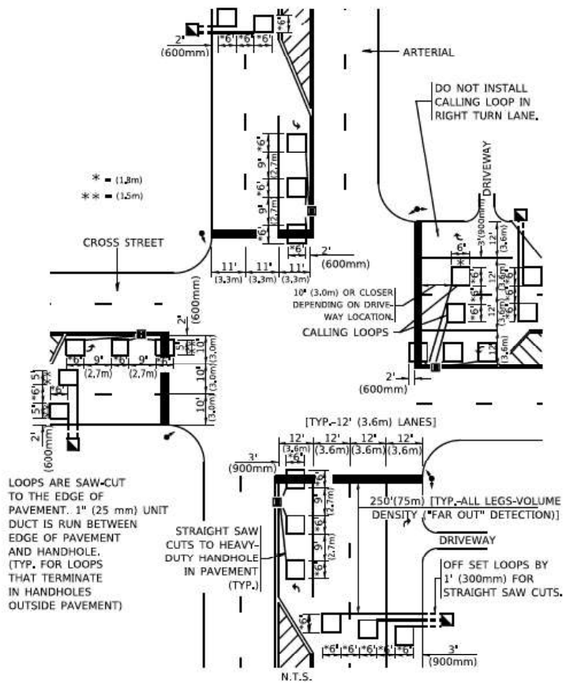
"FAR OUT" DETECTION REFERS TO LOCKING, PRESENCE TYPE DETECTION LOCATED IN THRU LANES, RIGHT TURN LANES, AND RIGHT TURN LANE TAPER AREAS (IF APPLICABLE), USUALLY 250' (75 m) IN ADVANCE OF STOP BARS. "UPTIGHT" DETECTION REFERS TO NON-LOCKING PRESENCE TYPE DETECTION LOCATED IN ALL LANES AND 10'-15' (3.0 m-4.5 m) BEHIND THE CROSSING STREET'S EDGE OF PAVEMENT EXTENDED.

NOTE:

ALL DETAILS AND NOTES SHOWN ARE FROM THE I.D.O.T. DISTRICT 1 TRAFFIC SIGNAL DESIGN GUIDELINES DATED JANUARY 1995

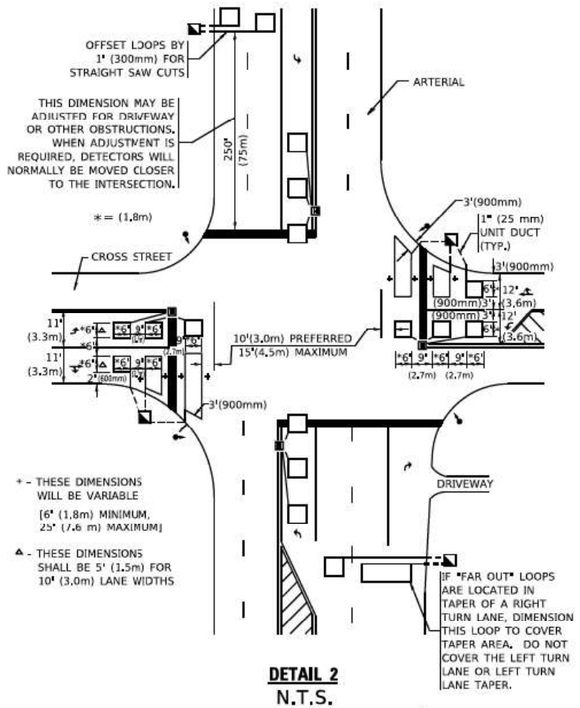
THIS DRAWING HAS BEEN PREPARED TO ASSIST THE RESIDENT ENGINEER FOR ALL ROADWAY RESURFACING OR S.M.A.R.T. PROJECTS WHERE THE DIMENSIONS ARE NOT SHOWN ON THE PLANS AND THE FINAL LOCATIONS FOR CROSSWALKS OR STOP BARS ARE NOT DETERMINED.

ARTERIAL-VOLUME DENSITY ("FAR OUT" DETECTION)
CROSS STREET-NON VOLUME DENSITY ("FAR OUT" DETECTION)



DETAIL 1
N.T.S.

ARTERIAL-VOLUME DENSITY ("FAR OUT" DETECTION)
CROSS STREET-NON VOLUME DENSITY ("UPTIGHT" PRESENCE DETECTION)



DETAIL 2
N.T.S.

TS SHT NO. 65

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	DRAWN -	REVISED -	
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PLOT DATE = 3/4/2019	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 1 – DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	D1D2N&T	COOK	426	272
	TS-07	CONTRACT NO. 62C25		
	ILLINOIS FED. AID PROJECT			

LIGHTING NOTES:

1. THE CONTRACTOR SHALL VERIFY ALL OF THE INFORMATION SHOWN IN THE CONTRACT DRAWINGS WHICH AFFECT THE WORK UNDER THIS CONTRACT.

2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ASCERTAIN EXISTING FIELD CONDITIONS BEFORE BIDDING ON THE PROJECT.

3. ALL NEW CONDUITS, UNIT DUCTS, DIRECT BURIAL CABLES. AND APPURTENANCES ARE INDICATED DIAGRAMMATICALLY ON THE DRAWINGS. THE ACTUAL LOCATIONS IN THE FIELD SHALL MEET THE APPROVAL OF THE ENGINEER.

4. THE ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND ASSOCIATED SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS (LATEST EDITION).

5. ALL LUMINAIRES SHALL BE ORIENTED WITH THE OPTICS PERPENDICULAR TO THE ROADWAY UNLESS OTHERWISE INDICATED OR DIRECTED BY THE ENGINEER. THIS WORK SHALL BE CONSIDERED INCLUDED IN THE APPLICABLE PAY ITEMS. SEPARATE PAYMENT WILL NOT BE MADE.

6. CONDUIT 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. THE CONTRACTOR SHALL INCREASE DEPTH OF UNIT DUCT AND CONDUIT AS REQUIRED AT NO ADDITIONAL COST. THE CONTRACTOR SHALL COORDINATE RACEWAY DEPTH WITH THE ELECTRICAL DETAILS AND THE ENGINEER.

7. WHERE THE CONTRACTOR'S EXCAVATION MEETS AN OBSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER FOR DIRECTION IN WRITING PRIOR TO EXCAVATION. IF DAMAGE OCCURS, THE CONTRACTOR SHALL RESTORE THE DAMAGE TO EXISTING SYSTEMS OR UTILITIES AND REMOVE EXISTING OBSTRUCTIONS AND FOUNDATIONS TO THE SATISFACTION OF THE ENGINEER. THIS WORK SHALL BE CONSIDERED INCLUDED IN THE COST OF THE APPROPRIATE PAY ITEM.

8. ALL THE FOUNDATIONS SHALL INCLUDE A GROUND ROD PER STANDARD DETAIL BE-300 AND STANDARD SPECIFICATION SECTION 806. GROUND ROD SHALL BE INCLUDED IN THE COST OF THE POLE FOUNDATION PAY ITEM.

9. POLE SETBACKS SHALL NOT BE LESS THAN 3 FEET FROM FACE OF CURB (FOC) TO CENTER OF POLE.

10. PROPOSED CIRCUITS ARE #6 CONDUCTORS WITH #8 GROUND OR 4" CONDUCTORS WITH #6 GROUND OPERATING AT 240/480 VOLTS, SINGLE PHASE.

LIGHTING SEQUENCE MOT STAGES

STAGE 1:

1. NO LIGHTING WORK.

STAGE 2:

1. REMOVE EXISTING POLES, FOUNDATIONS AND WIRING IN WORK ZONES.

2. KEEP EXISTING LIGHTING OPPOSITE WORK ZONES IN SERVICE FOR TEMPORARY LIGHTING OF ROADWAY OPEN TO TRAFFIC.

3. INSTALL NEW LIGHTING AND WIRING IN WORK ZONES.

4. EXISTING LIGHTING SHALL REMAIN IN OPERATION AT THE JOLIET ROAD AND W. 55TH STREET INTERSECTION UNTIL THE PROPOSED LIGHTING AT THE INTERSECTION IS IN OPERATION.

STAGE 3:

1. REMOVE EXISTING POLES, FOUNDATIONS AND WIRING IN WORK ZONES.

2. NEW LIGHTING INSTALLED DURING STAGE 1 SHALL BE IN SERVICE FOR LIGHTING LANES OPEN TO TRAFFIC. PROVIDE TEMPORARY WIRING WHERE REQUIRED FOR THE NEW LIGHTING.

3. INSTALL NEW LIGHTING AND WIRING IN WORK ZONES.

4. EXISTING LIGHTING SHALL REMAIN IN OPERATION AT THE JOLIET ROAD AND W. 55TH STREET INTERSECTION UNTIL THE PROPOSED LIGHTING AT THE INTERSECTION IS IN OPERATION.

STAGE 4:

1. NO LIGHTING WORK.

ABNA JOB NO. 16-6239

ABNA

USER NAME = mconroy	DESIGNED - F. EPPERT	REVISED -
	DRAWN - M. CONROY	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED - J. OLUBOGUN	REVISED -
PLOT DATE = 7/30/2021	DATE - 06/04/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHTING GENERAL NOTES
EAST AVENUE (55TH ST TO JOLIET RD)

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

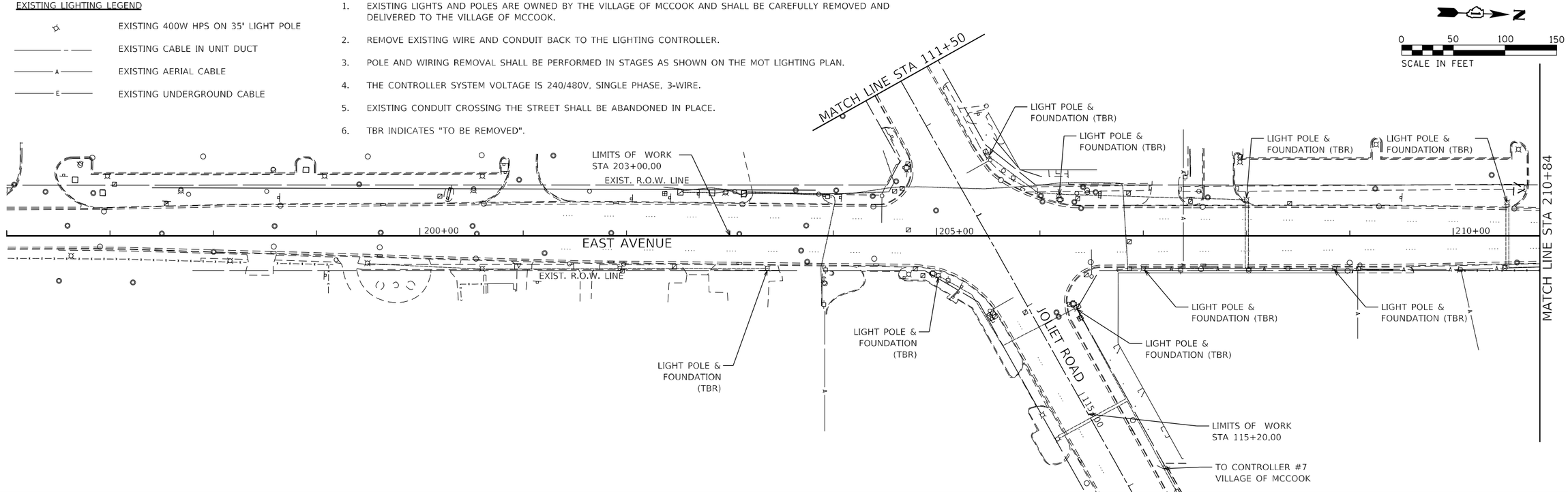
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	426	273
		CONTRACT NO. 62C25		
	ILLINOIS FED. AID PROJECT			

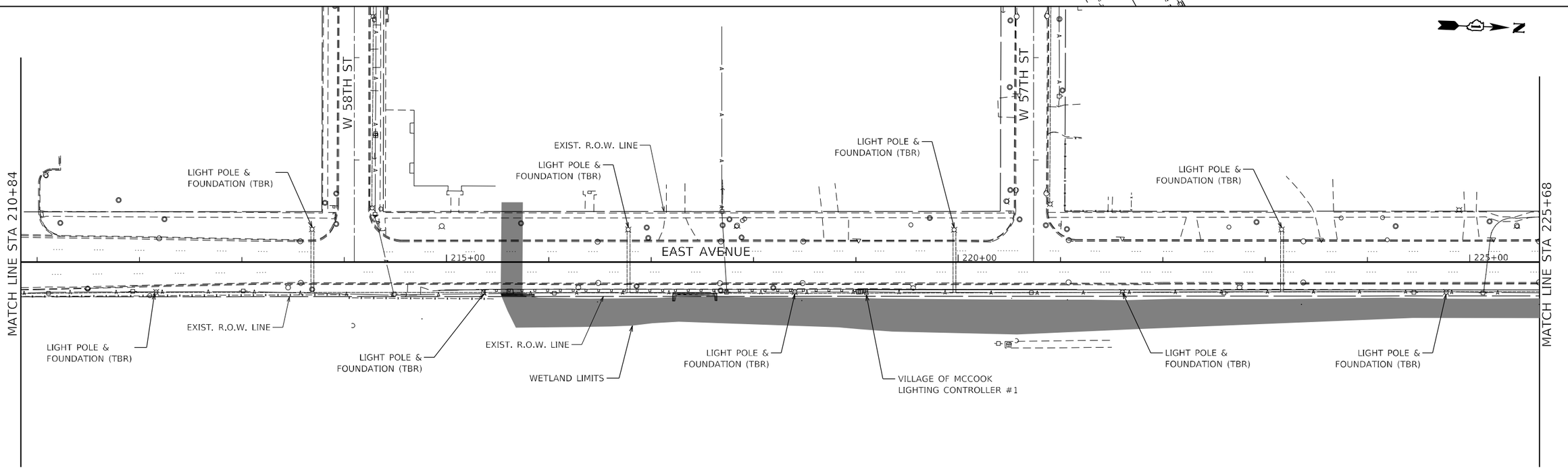
EXISTING LIGHTING LEGEND

- EXISTING 400W HPS ON 35' LIGHT POLE
- EXISTING CABLE IN UNIT DUCT
- EXISTING AERIAL CABLE
- EXISTING UNDERGROUND CABLE

NOTES:

1. EXISTING LIGHTS AND POLES ARE OWNED BY THE VILLAGE OF MCCOOK AND SHALL BE CAREFULLY REMOVED AND DELIVERED TO THE VILLAGE OF MCCOOK.
2. REMOVE EXISTING WIRE AND CONDUIT BACK TO THE LIGHTING CONTROLLER.
3. POLE AND WIRING REMOVAL SHALL BE PERFORMED IN STAGES AS SHOWN ON THE MOT LIGHTING PLAN.
4. THE CONTROLLER SYSTEM VOLTAGE IS 240/480V, SINGLE PHASE, 3-WIRE.
5. EXISTING CONDUIT CROSSING THE STREET SHALL BE ABANDONED IN PLACE.
6. TBR INDICATES "TO BE REMOVED".





ABNA JOB NO. 16-6239

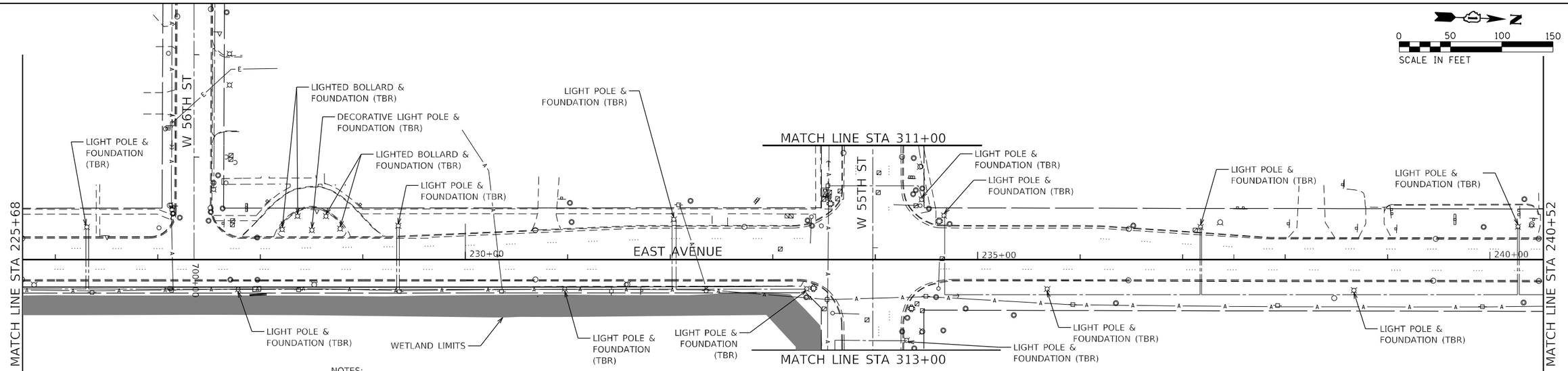
USER NAME = mconroy	DESIGNED - F. EPPERT	REVISED -	
	DRAWN - M. CONROY	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - J. OLUBOGUN	REVISED -	
PLOT DATE = 7/30/2021	DATE - 06/04/2021	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EAST AVE EXISTING LIGHTING PLAN – I
EAST AVENUE (55TH ST TO JOLIET RD)

SCALE: | SHEET 1 OF 4 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	426	274
		CONTRACT NO. 62C25		
	ILLINOIS FED. AID PROJECT			

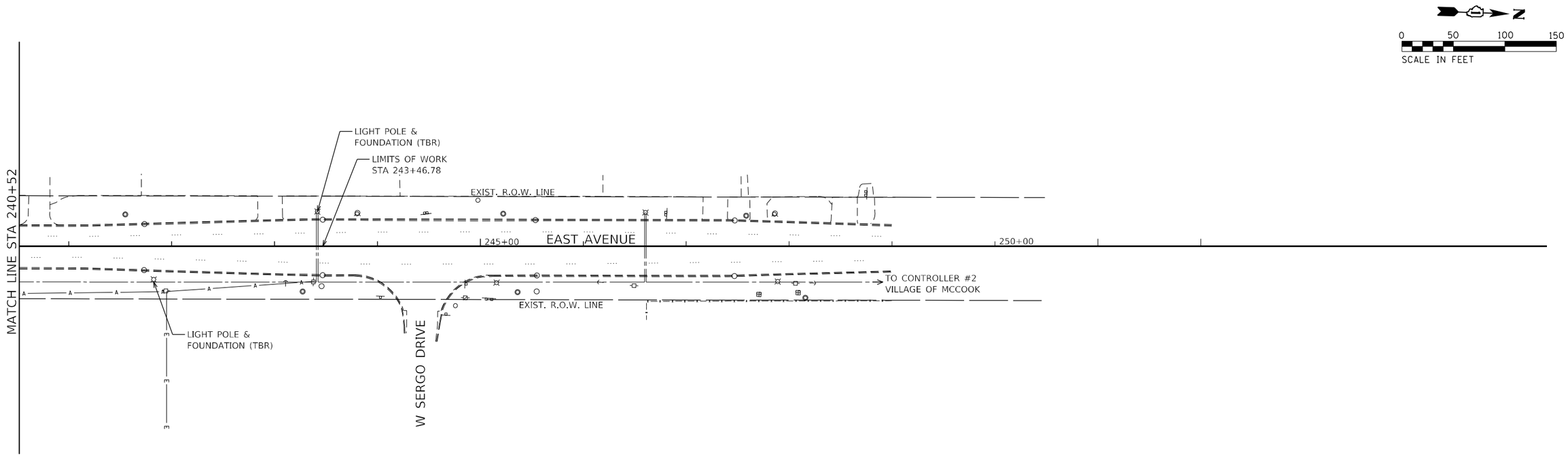


EXISTING LIGHTING LEGEND

- EXISTING 400W HPS ON 35' LIGHT POLE
- EXISTING CABLE IN UNIT DUCT
- EXISTING AERIAL CABLE
- EXISTING UNDERGROUND ELECTRIC

NOTES:

1. EXISTING LIGHTS AND POLES ARE OWNED BY THE VILLAGE OF MCCOOK AND SHALL BE CAREFULLY REMOVED AND DELIVERED TO THE VILLAGE OF MCCOOK OR RESPECTIVE OWNER.
2. REMOVE EXISTING WIRE AND CONDUIT BACK TO THE LIGHTING CONTROLLER.
3. POLE AND WIRING REMOVAL SHALL BE PERFORMED IN STAGES AS SHOWN ON THE MOT LIGHTING PLAN.
4. THE CONTROLLER SYSTEM VOLTAGE IS 240/480V, SINGLE PHASE, 3-WIRE.
5. EXISTING CONDUIT CROSSING THE STREET SHALL BE ABANDONED IN PLACE.
6. TBR INDICATES "TO BE REMOVED".



ABNA JOB NO. 16-6239

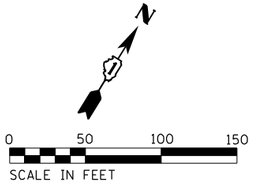
USER NAME = mconroy	DESIGNED - F. EPPERT	REVISED -	
	DRAWN - M. CONROY	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - J. OLUBOGUN	REVISED -	
PLOT DATE = 7/30/2021	DATE - 06/04/2021	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EAST AVE EXISTING LIGHTING – II
EAST AVENUE (55TH ST TO JOLIET RD)

SCALE: | SHEET 2 OF 4 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	426	275
		CONTRACT NO. 62C25		
	ILLINOIS FED. AID PROJECT			

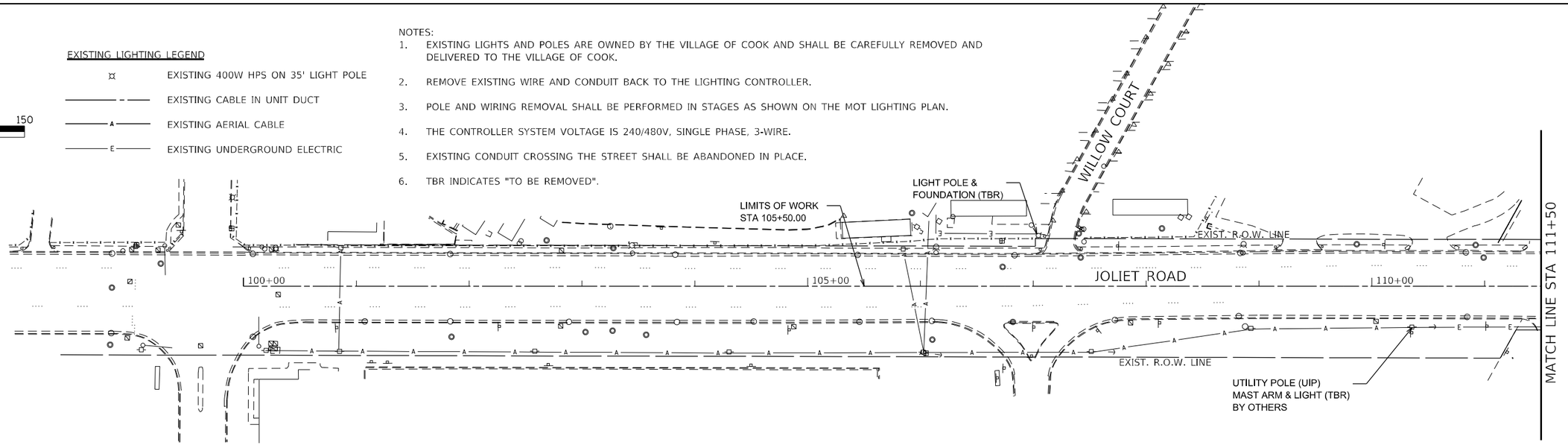


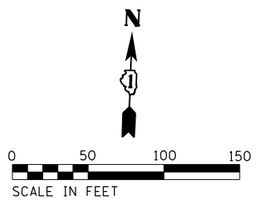
EXISTING LIGHTING LEGEND

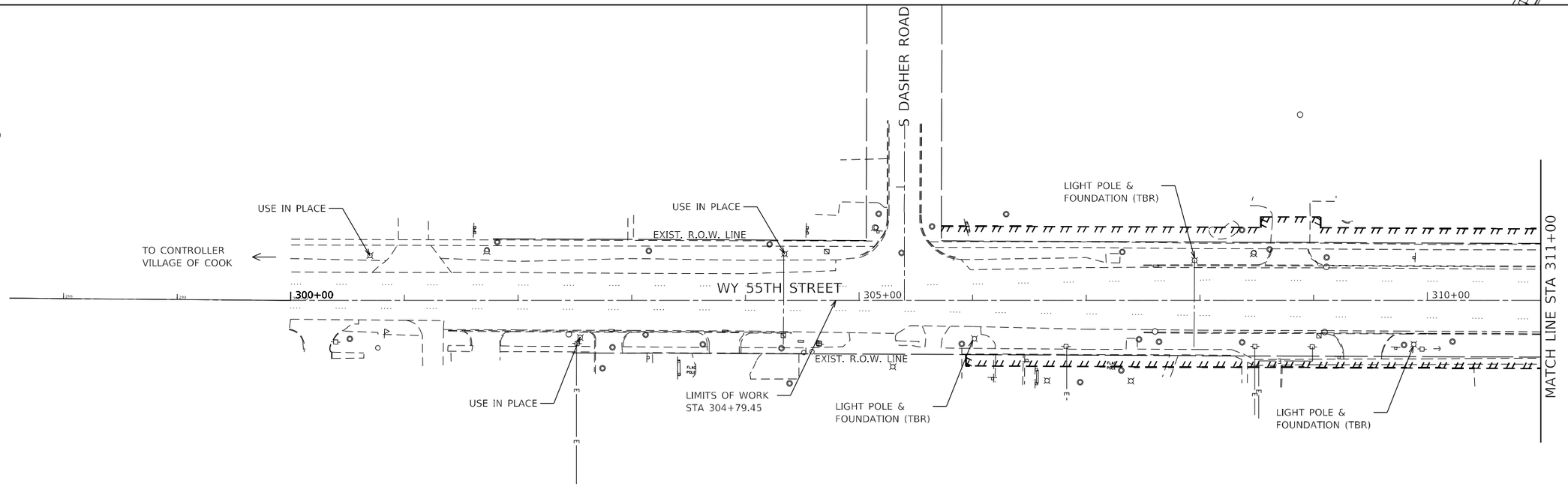
- EXISTING 400W HPS ON 35' LIGHT POLE
- EXISTING CABLE IN UNIT DUCT
- EXISTING AERIAL CABLE
- EXISTING UNDERGROUND ELECTRIC

NOTES:

1. EXISTING LIGHTS AND POLES ARE OWNED BY THE VILLAGE OF COOK AND SHALL BE CAREFULLY REMOVED AND DELIVERED TO THE VILLAGE OF COOK.
2. REMOVE EXISTING WIRE AND CONDUIT BACK TO THE LIGHTING CONTROLLER.
3. POLE AND WIRING REMOVAL SHALL BE PERFORMED IN STAGES AS SHOWN ON THE MOT LIGHTING PLAN.
4. THE CONTROLLER SYSTEM VOLTAGE IS 240/480V, SINGLE PHASE, 3-WIRE.
5. EXISTING CONDUIT CROSSING THE STREET SHALL BE ABANDONED IN PLACE.
6. TBR INDICATES "TO BE REMOVED".







ABNA	USER NAME = mconroy	DESIGNED - F. EPPERT	REVISED -
		DRAWN - M. CONROY	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED - J. OLUBOGUN	REVISED -
	PLOT DATE = 7/30/2021	DATE - 06/04/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

55TH ST EXISTING LIGHTING - I
EAST AVENUE (55TH ST TO JOLIET RD)

SCALE: | SHEET 3 OF 4 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	426	276
		CONTRACT NO. 62C25		
	ILLINOIS	FED. AID PROJECT		

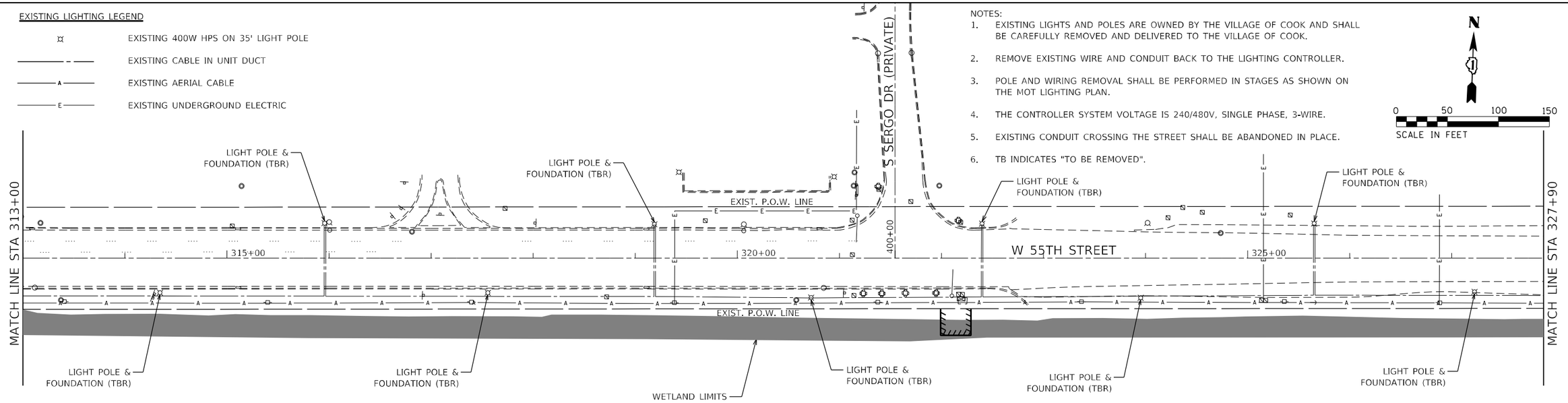
ABNA JOB NO. 16-6239

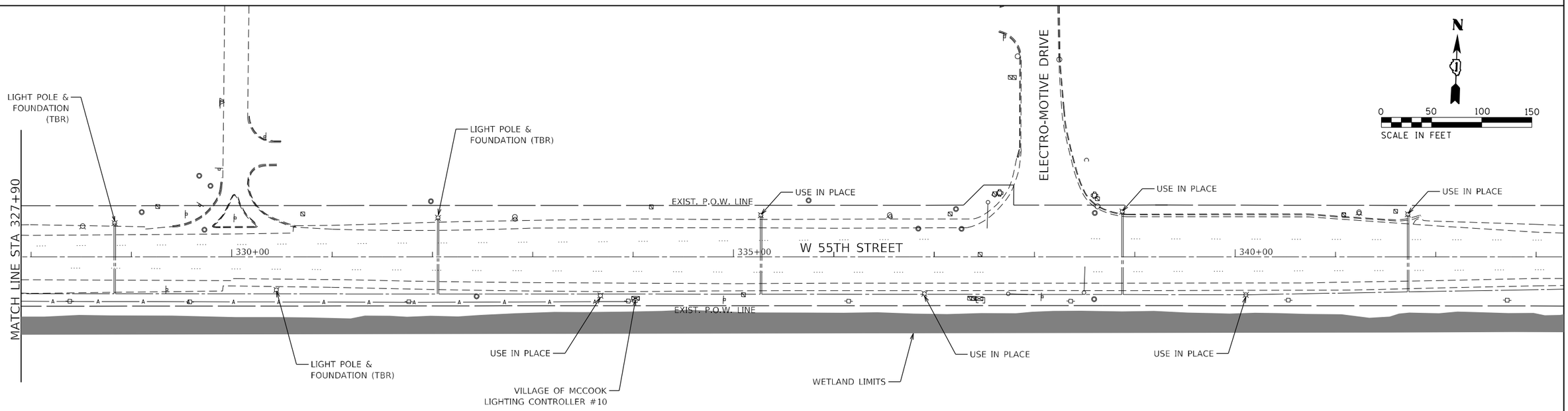
EXISTING LIGHTING LEGEND

- EXISTING 400W HPS ON 35' LIGHT POLE
- EXISTING CABLE IN UNIT DUCT
- EXISTING AERIAL CABLE
- EXISTING UNDERGROUND ELECTRIC

NOTES:

1. EXISTING LIGHTS AND POLES ARE OWNED BY THE VILLAGE OF COOK AND SHALL BE CAREFULLY REMOVED AND DELIVERED TO THE VILLAGE OF COOK.
2. REMOVE EXISTING WIRE AND CONDUIT BACK TO THE LIGHTING CONTROLLER.
3. POLE AND WIRING REMOVAL SHALL BE PERFORMED IN STAGES AS SHOWN ON THE MOT LIGHTING PLAN.
4. THE CONTROLLER SYSTEM VOLTAGE IS 240/480V, SINGLE PHASE, 3-WIRE.
5. EXISTING CONDUIT CROSSING THE STREET SHALL BE ABANDONED IN PLACE.
6. TB INDICATES "TO BE REMOVED".





ABNA JOB NO. 16-6239

USER NAME = mconroy	DESIGNED - F. EPPERT	REVISED -	
	DRAWN - M. CONROY	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - J. OLUBOGUN	REVISED -	
PLOT DATE = 7/30/2021	DATE - 06/04/2021	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

55TH ST EXISTING LIGHTING PLAN II
EAST AVENUE (55TH ST TO JOLIET RD)

SCALE: | SHEET 4 OF 4 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	426	277

CONTRACT NO. 62C25

ILLINOIS | FED. AID PROJECT

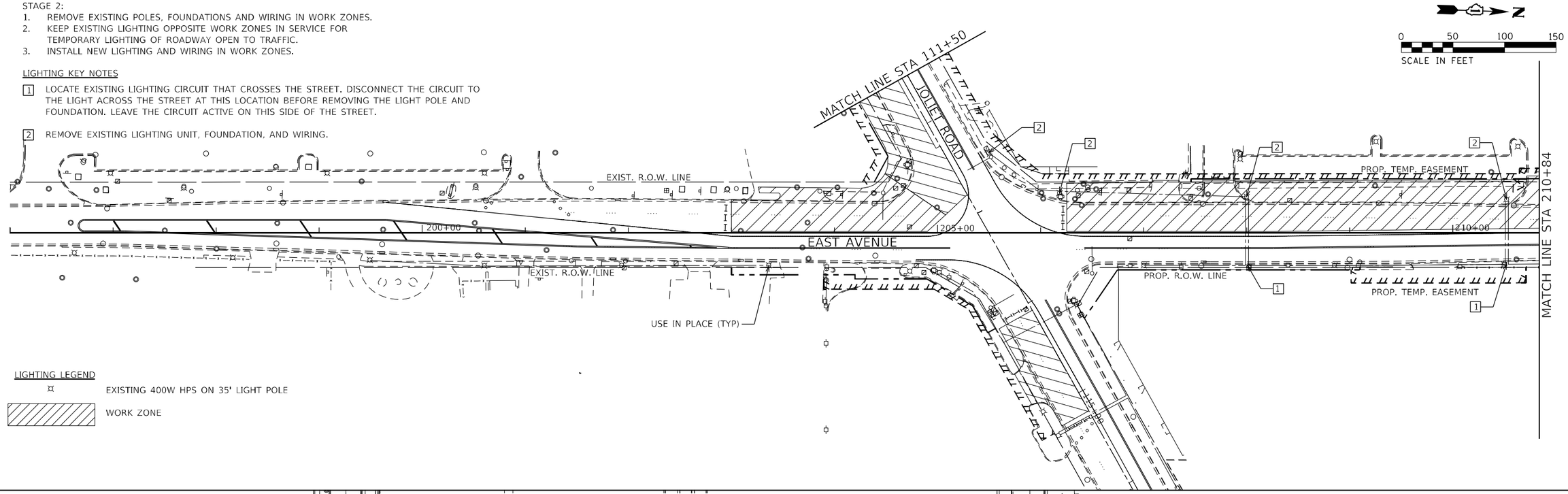
LIGHTING SEQUENCE MOT STAGE 2

STAGE 2:
1. REMOVE EXISTING POLES, FOUNDATIONS AND WIRING IN WORK ZONES.
2. KEEP EXISTING LIGHTING OPPOSITE WORK ZONES IN SERVICE FOR TEMPORARY LIGHTING OF ROADWAY OPEN TO TRAFFIC.
3. INSTALL NEW LIGHTING AND WIRING IN WORK ZONES.

LIGHTING KEY NOTES

[1] LOCATE EXISTING LIGHTING CIRCUIT THAT CROSSES THE STREET. DISCONNECT THE CIRCUIT TO THE LIGHT ACROSS THE STREET AT THIS LOCATION BEFORE REMOVING THE LIGHT POLE AND FOUNDATION. LEAVE THE CIRCUIT ACTIVE ON THIS SIDE OF THE STREET.

[2] REMOVE EXISTING LIGHTING UNIT, FOUNDATION, AND WIRING.



LIGHTING LEGEND

EXISTING 400W HPS ON 35' LIGHT POLE

WORK ZONE

ABNA JOB NO. 16-6239

ABNA

USER NAME = mconroy	DESIGNED - F. EPPERT	REVISED -	
	DRAWN - M. CONROY	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - J. OLUBOGUN	REVISED -	
PLOT DATE = 7/30/2021	DATE - 06/04/2021	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EAST AVE LIGHTING STAGE 2 PLAN – I
EAST AVENUE (55TH ST TO JOLIET RD)

SCALE: | SHEET 1 OF 4 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	426	278
		CONTRACT NO. 62C25		
	ILLINOIS FED. AID PROJECT			

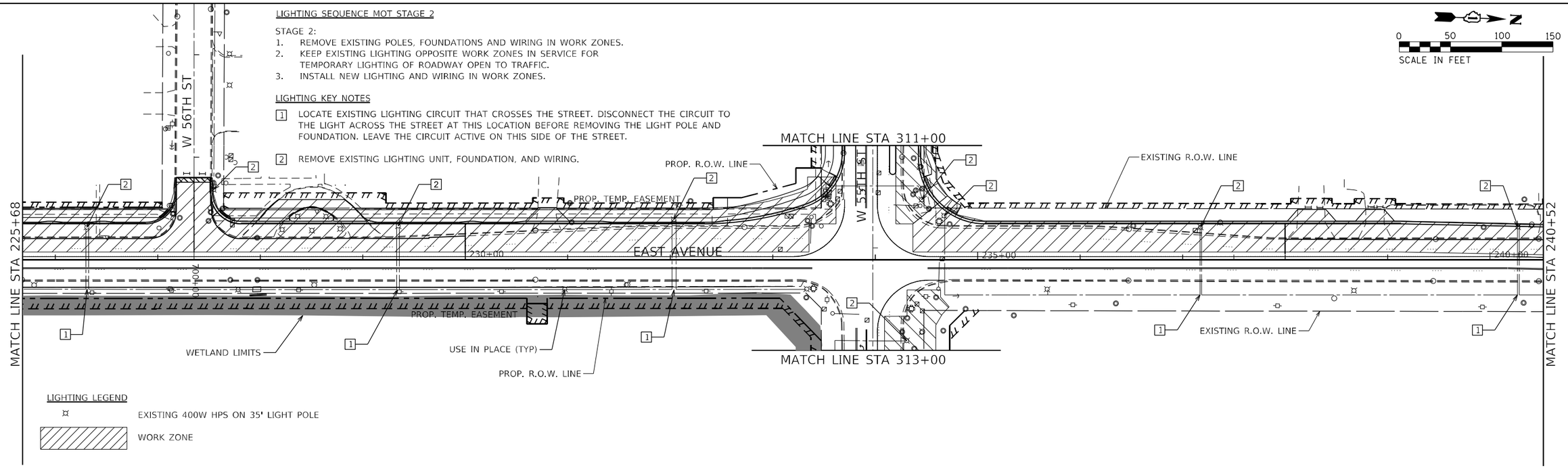
LIGHTING SEQUENCE MOT STAGE 2

STAGE 2:
1. REMOVE EXISTING POLES, FOUNDATIONS AND WIRING IN WORK ZONES.
2. KEEP EXISTING LIGHTING OPPOSITE WORK ZONES IN SERVICE FOR TEMPORARY LIGHTING OF ROADWAY OPEN TO TRAFFIC.
3. INSTALL NEW LIGHTING AND WIRING IN WORK ZONES.

LIGHTING KEY NOTES

[1] LOCATE EXISTING LIGHTING CIRCUIT THAT CROSSES THE STREET. DISCONNECT THE CIRCUIT TO THE LIGHT ACROSS THE STREET AT THIS LOCATION BEFORE REMOVING THE LIGHT POLE AND FOUNDATION. LEAVE THE CIRCUIT ACTIVE ON THIS SIDE OF THE STREET.

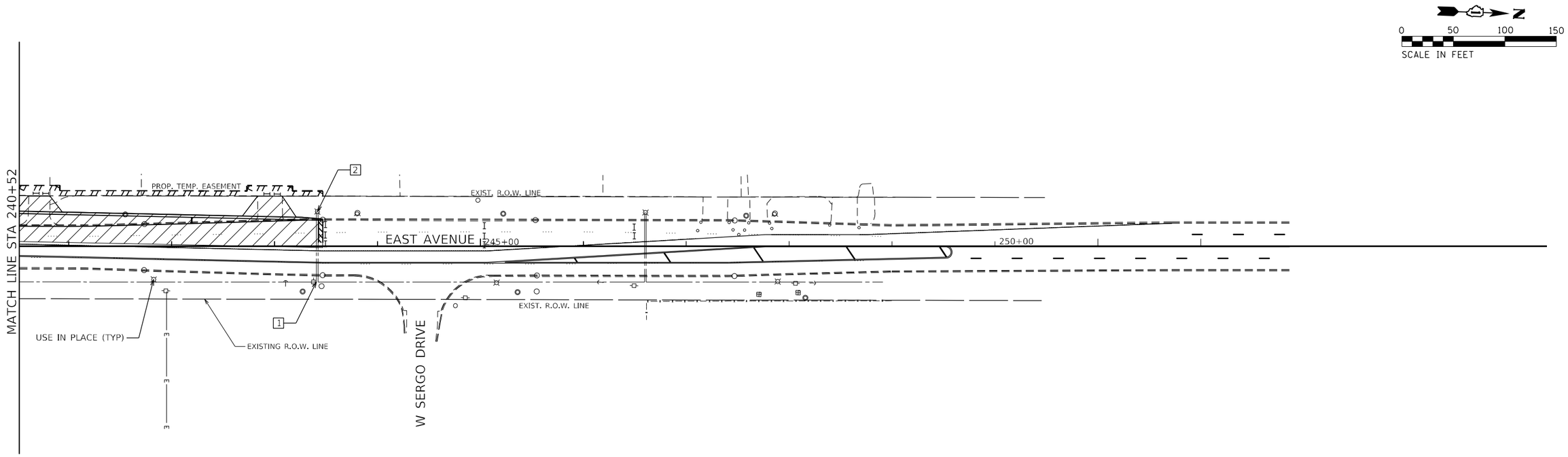
[2] REMOVE EXISTING LIGHTING UNIT, FOUNDATION, AND WIRING.



LIGHTING LEGEND

EXISTING 400W HPS ON 35' LIGHT POLE

WORK ZONE



ABNA JOB NO. 16-6239

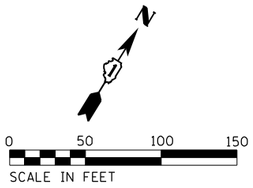
USER NAME = mconroy	DESIGNED - F. EPPERT	REVISED -	
	DRAWN - M. CONROY	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - J. OLUBOGUN	REVISED -	
PLOT DATE = 7/30/2021	DATE - 06/04/2021	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EAST AVE LIGHTING STAGE 2 PLAN – II
EAST AVENUE (55TH ST TO JOLIET RD)

SCALE: | SHEET 2 OF 4 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	426	279
		CONTRACT NO. 62C25		
	ILLINOIS FED. AID PROJECT			



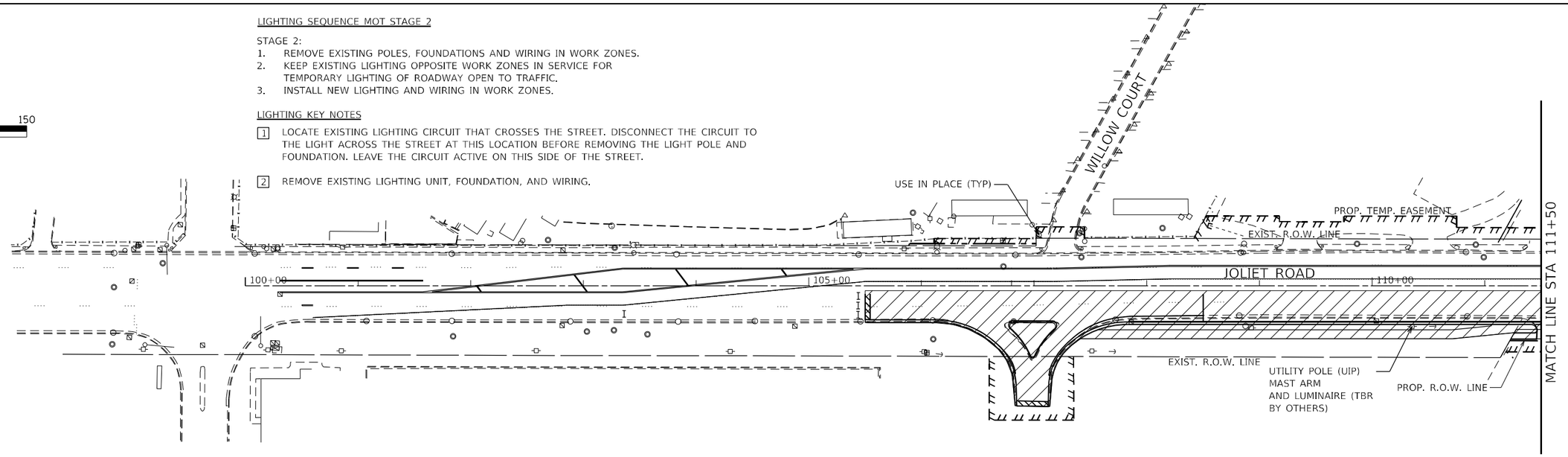
LIGHTING SEQUENCE MOT STAGE 2

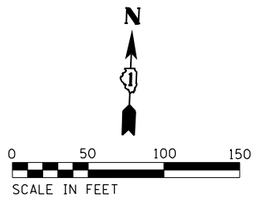
STAGE 2:
1. REMOVE EXISTING POLES, FOUNDATIONS AND WIRING IN WORK ZONES.
2. KEEP EXISTING LIGHTING OPPOSITE WORK ZONES IN SERVICE FOR TEMPORARY LIGHTING OF ROADWAY OPEN TO TRAFFIC.
3. INSTALL NEW LIGHTING AND WIRING IN WORK ZONES.

LIGHTING KEY NOTES

[1] LOCATE EXISTING LIGHTING CIRCUIT THAT CROSSES THE STREET. DISCONNECT THE CIRCUIT TO THE LIGHT ACROSS THE STREET AT THIS LOCATION BEFORE REMOVING THE LIGHT POLE AND FOUNDATION. LEAVE THE CIRCUIT ACTIVE ON THIS SIDE OF THE STREET.

[2] REMOVE EXISTING LIGHTING UNIT, FOUNDATION, AND WIRING.

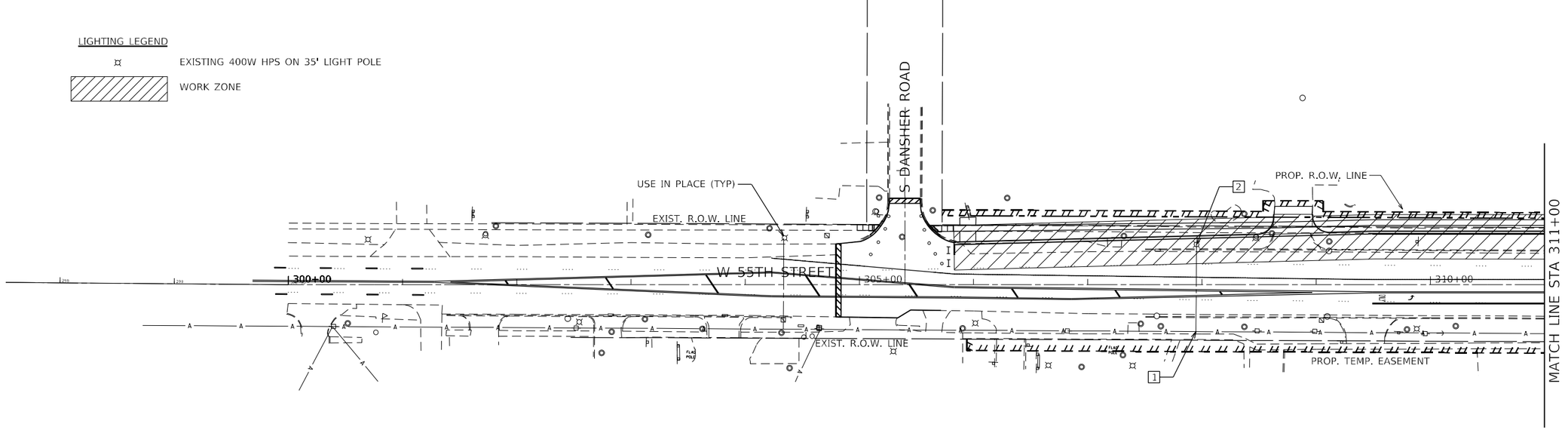




LIGHTING LEGEND

EXISTING 400W HPS ON 35' LIGHT POLE

WORK ZONE



ABNA JOB NO. 16-6239

USER NAME = mconroy	DESIGNED - F. EPPERT	REVISED -	
	DRAWN - M. CONROY	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - J. OLUBOGUN	REVISED -	
PLOT DATE = 7/30/2021	DATE - 06/04/2021	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

JOLIET RD /55TH ST LIGHTING STAGE 2 PLAN – I
EAST AVENUE (55TH ST TO JOLIET RD)

SCALE: | SHEET 3 OF 4 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	426	280
		CONTRACT NO. 62C25		
	ILLINOIS FED. AID PROJECT			

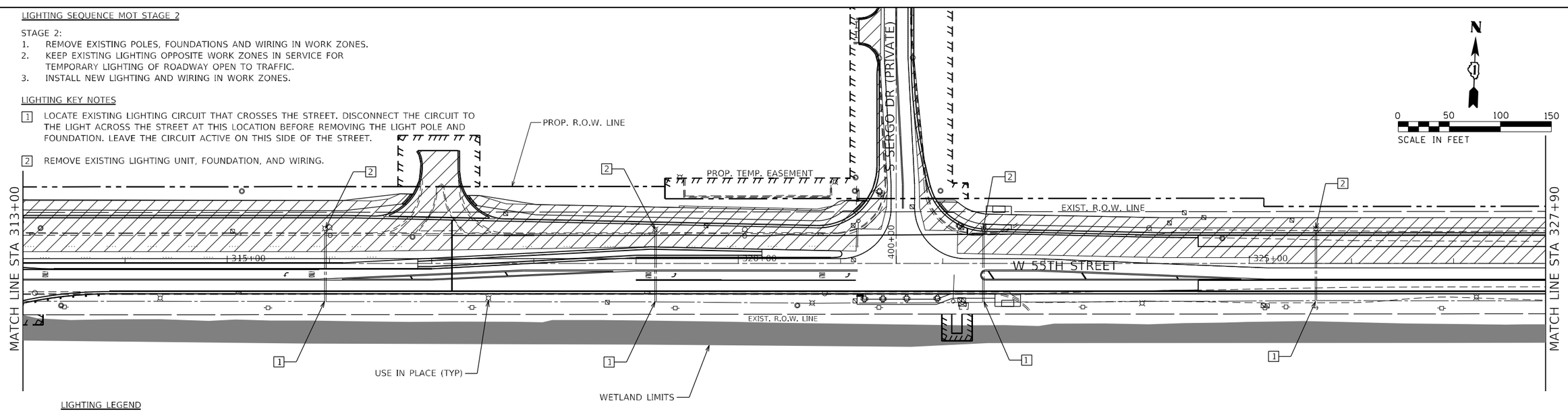
LIGHTING SEQUENCE MOT STAGE 2

STAGE 2:
1. REMOVE EXISTING POLES, FOUNDATIONS AND WIRING IN WORK ZONES.
2. KEEP EXISTING LIGHTING OPPOSITE WORK ZONES IN SERVICE FOR TEMPORARY LIGHTING OF ROADWAY OPEN TO TRAFFIC.
3. INSTALL NEW LIGHTING AND WIRING IN WORK ZONES.

LIGHTING KEY NOTES

[1] LOCATE EXISTING LIGHTING CIRCUIT THAT CROSSES THE STREET. DISCONNECT THE CIRCUIT TO THE LIGHT ACROSS THE STREET AT THIS LOCATION BEFORE REMOVING THE LIGHT POLE AND FOUNDATION. LEAVE THE CIRCUIT ACTIVE ON THIS SIDE OF THE STREET.

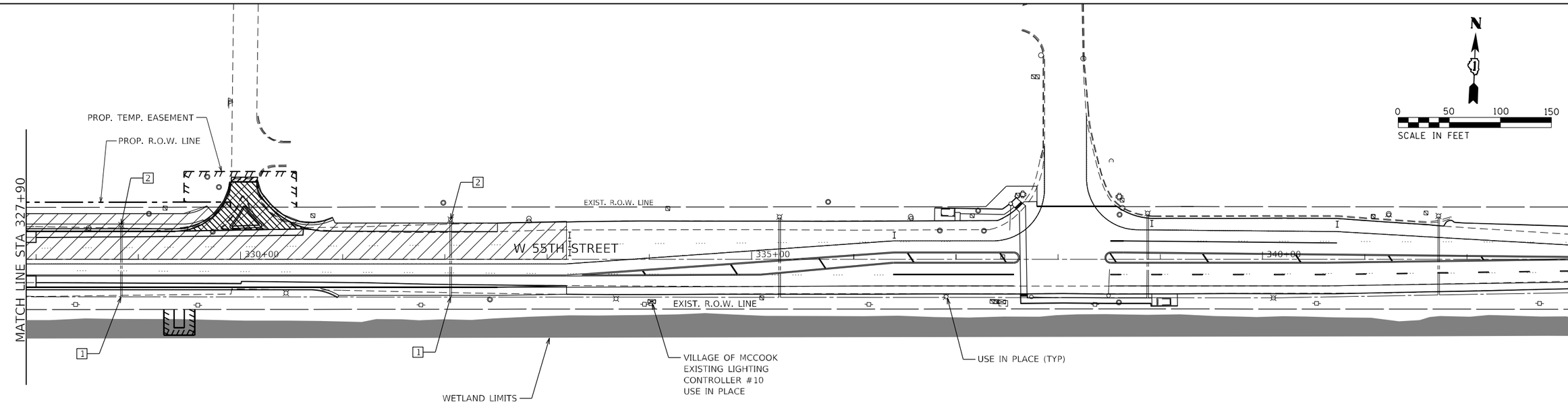
[2] REMOVE EXISTING LIGHTING UNIT, FOUNDATION, AND WIRING.



LIGHTING LEGEND

EXISTING 400W HPS ON 35' LIGHT POLE

WORK ZONE



ABNA JOB NO. 16-6239

USER NAME = mconroy	DESIGNED - F. EPPERT	REVISED -	
	DRAWN - M. CONROY	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - J. OLUBOGUN	REVISED -	
PLOT DATE = 7/30/2021	DATE - 06/04/2021	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

55TH ST LIGHTING STAGE 2 PLAN – II
EAST AVENUE (55TH ST TO JOLIET RD)

SCALE: | SHEET 4 OF 4 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	426	281
		CONTRACT NO. 62C25		
		ILLINOIS FED. AID PROJECT		

LIGHTING SEQUENCE MOT STAGE 3

STAGE 3:
1. REMOVE EXISTING POLES, FOUNDATIONS AND WIRING IN WORK ZONES.
2. NEW LIGHTING INSTALLED DURING STAGE I SHALL REMAIN IN SERVICE FOR LIGHTING THE STAGE II ROADWAY.
3. PROVIDE TEMPORARY WIRING WHERE REQUIRED FOR NEW LIGHTING.
4. INSTALL NEW LIGHTING AND WIRING IN WORK ZONES.

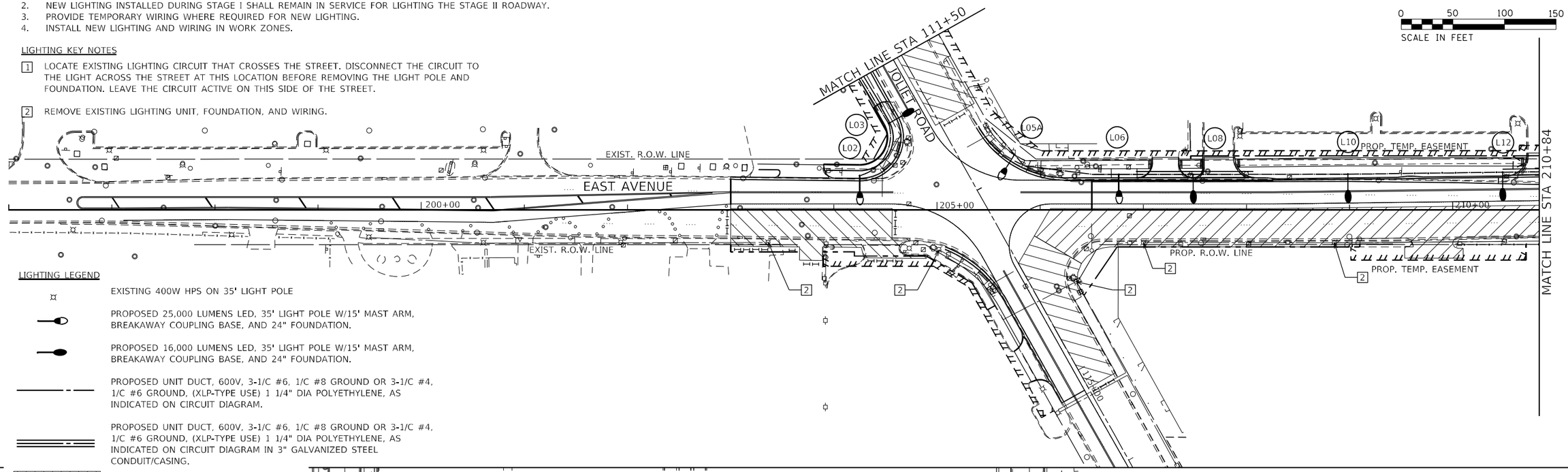
LIGHTING KEY NOTES

[1] LOCATE EXISTING LIGHTING CIRCUIT THAT CROSSES THE STREET. DISCONNECT THE CIRCUIT TO THE LIGHT ACROSS THE STREET AT THIS LOCATION BEFORE REMOVING THE LIGHT POLE AND FOUNDATION. LEAVE THE CIRCUIT ACTIVE ON THIS SIDE OF THE STREET.

[2] REMOVE EXISTING LIGHTING UNIT, FOUNDATION, AND WIRING.

LIGHTING LEGEND

- EXISTING 400W HPS ON 35' LIGHT POLE
- PROPOSED 25,000 LUMENS LED, 35' LIGHT POLE W/15' MAST ARM, BREAKAWAY COUPLING BASE, AND 24" FOUNDATION.
- PROPOSED 16,000 LUMENS LED, 35' LIGHT POLE W/15' MAST ARM, BREAKAWAY COUPLING BASE, AND 24" FOUNDATION.
- PROPOSED UNIT DUCT, 600V, 3-1/C #6, 1/C #8 GROUND OR 3-1/C #4, 1/C #6 GROUND, (XLP-TYPE USE) 1 1/4" DIA POLYETHYLENE, AS INDICATED ON CIRCUIT DIAGRAM.
- PROPOSED UNIT DUCT, 600V, 3-1/C #6, 1/C #8 GROUND OR 3-1/C #4, 1/C #6 GROUND, (XLP-TYPE USE) 1 1/4" DIA POLYETHYLENE, AS INDICATED ON CIRCUIT DIAGRAM IN 3" GALVANIZED STEEL CONDUIT/CASING.
- WORK ZONE



ABNA JOB NO. 16-6239

USER NAME = mconroy	DESIGNED - F. EPPERT	REVISED -	
	DRAWN - M. CONROY	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - J. OLUBOGUN	REVISED -	
PLOT DATE = 7/30/2021	DATE - 06/04/2021	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EAST AVE LIGHTING STAGE 3 PLAN – I
EAST AVENUE (55TH ST TO JOLIET RD)

SCALE: | SHEET 1 OF 4 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	426	282
		CONTRACT NO. 62C25		
	ILLINOIS FED. AID PROJECT			

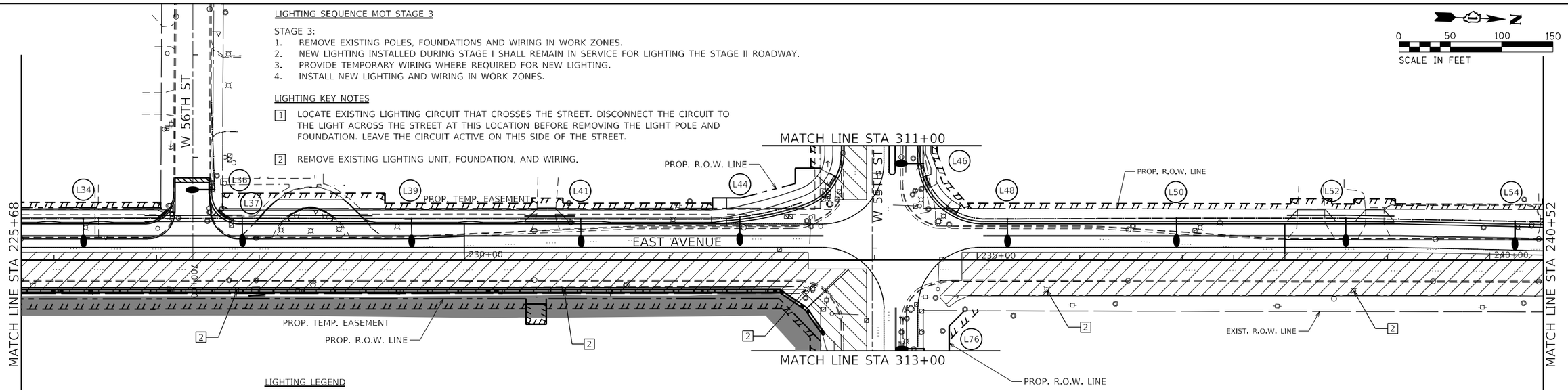
LIGHTING SEQUENCE MOT STAGE 3

STAGE 3:
1. REMOVE EXISTING POLES, FOUNDATIONS AND WIRING IN WORK ZONES.
2. NEW LIGHTING INSTALLED DURING STAGE I SHALL REMAIN IN SERVICE FOR LIGHTING THE STAGE II ROADWAY.
3. PROVIDE TEMPORARY WIRING WHERE REQUIRED FOR NEW LIGHTING.
4. INSTALL NEW LIGHTING AND WIRING IN WORK ZONES.

LIGHTING KEY NOTES

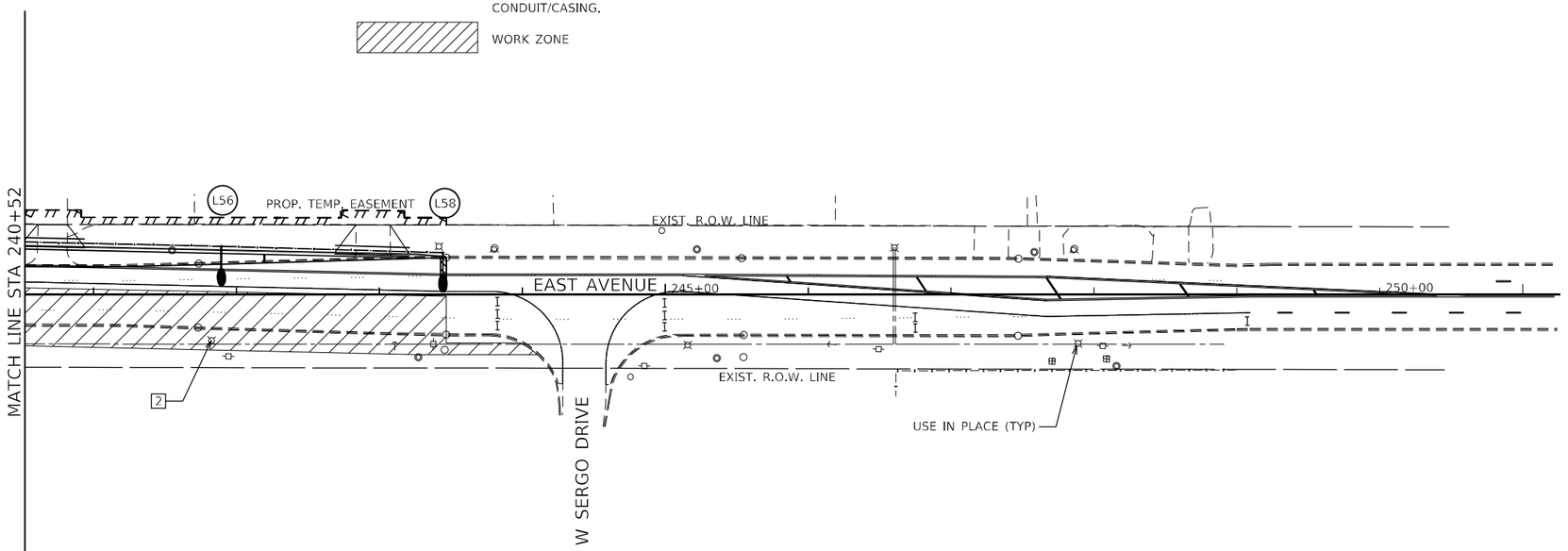
[1] LOCATE EXISTING LIGHTING CIRCUIT THAT CROSSES THE STREET. DISCONNECT THE CIRCUIT TO THE LIGHT ACROSS THE STREET AT THIS LOCATION BEFORE REMOVING THE LIGHT POLE AND FOUNDATION. LEAVE THE CIRCUIT ACTIVE ON THIS SIDE OF THE STREET.

[2] REMOVE EXISTING LIGHTING UNIT, FOUNDATION, AND WIRING.



LIGHTING LEGEND

- EXISTING 400W HPS ON 35' LIGHT POLE
- PROPOSED 25,000 LUMENS LED, 35' LIGHT POLE W/15' MAST ARM, BREAKAWAY COUPLING BASE, AND 24" FOUNDATION.
- PROPOSED 16,000 LUMENS LED, 35' LIGHT POLE W/15' MAST ARM, BREAKAWAY COUPLING BASE, AND 24" FOUNDATION.
- PROPOSED UNIT DUCT, 600V, 3-1/C #6, 1/C #8 GROUND OR 3-1/C #4, 1/C #6 GROUND, (XLP-TYPE USE) 1 1/4" DIA POLYETHYLENE, AS INDICATED ON CIRCUIT DIAGRAM.
- PROPOSED UNIT DUCT, 600V, 3-1/C #6, 1/C #8 GROUND OR 3-1/C #4, 1/C #6 GROUND, (XLP-TYPE USE) 1 1/4" DIA POLYETHYLENE, AS INDICATED ON CIRCUIT DIAGRAM IN 3" GALVANIZED STEEL CONDUIT/CASING.
- WORK ZONE



ABNA JOB NO. 16-6239

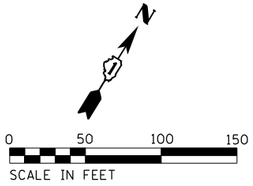
USER NAME = mconroy	DESIGNED - F. EPPERT	REVISED -	
	DRAWN - M. CONROY	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - J. OLUBOGUN	REVISED -	
PLOT DATE = 7/30/2021	DATE - 06/04/2021	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EAST AVE LIGHTING STAGE 3 PLAN – II
EAST AVENUE (55TH ST TO JOLIET RD)

SCALE: | SHEET 2 OF 4 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	426	283
		CONTRACT NO. 62C25		
	ILLINOIS FED. AID PROJECT			



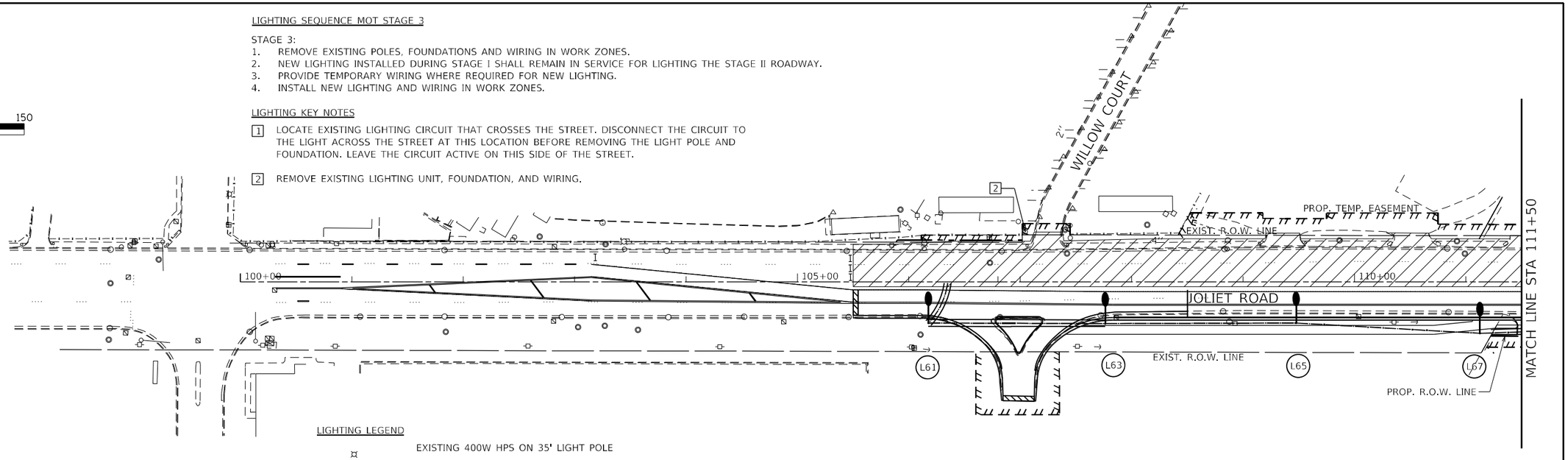
LIGHTING SEQUENCE MOT STAGE 3

STAGE 3:
1. REMOVE EXISTING POLES, FOUNDATIONS AND WIRING IN WORK ZONES.
2. NEW LIGHTING INSTALLED DURING STAGE I SHALL REMAIN IN SERVICE FOR LIGHTING THE STAGE II ROADWAY.
3. PROVIDE TEMPORARY WIRING WHERE REQUIRED FOR NEW LIGHTING.
4. INSTALL NEW LIGHTING AND WIRING IN WORK ZONES.

LIGHTING KEY NOTES

[1] LOCATE EXISTING LIGHTING CIRCUIT THAT CROSSES THE STREET. DISCONNECT THE CIRCUIT TO THE LIGHT ACROSS THE STREET AT THIS LOCATION BEFORE REMOVING THE LIGHT POLE AND FOUNDATION. LEAVE THE CIRCUIT ACTIVE ON THIS SIDE OF THE STREET.

[2] REMOVE EXISTING LIGHTING UNIT, FOUNDATION, AND WIRING.



LIGHTING LEGEND

EXISTING 400W HPS ON 35' LIGHT POLE

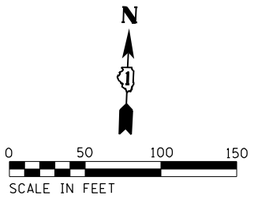
PROPOSED 25,000 LUMENS LED, 35' LIGHT POLE W/15' MAST ARM, BREAKAWAY COUPLING BASE, AND 24" FOUNDATION.

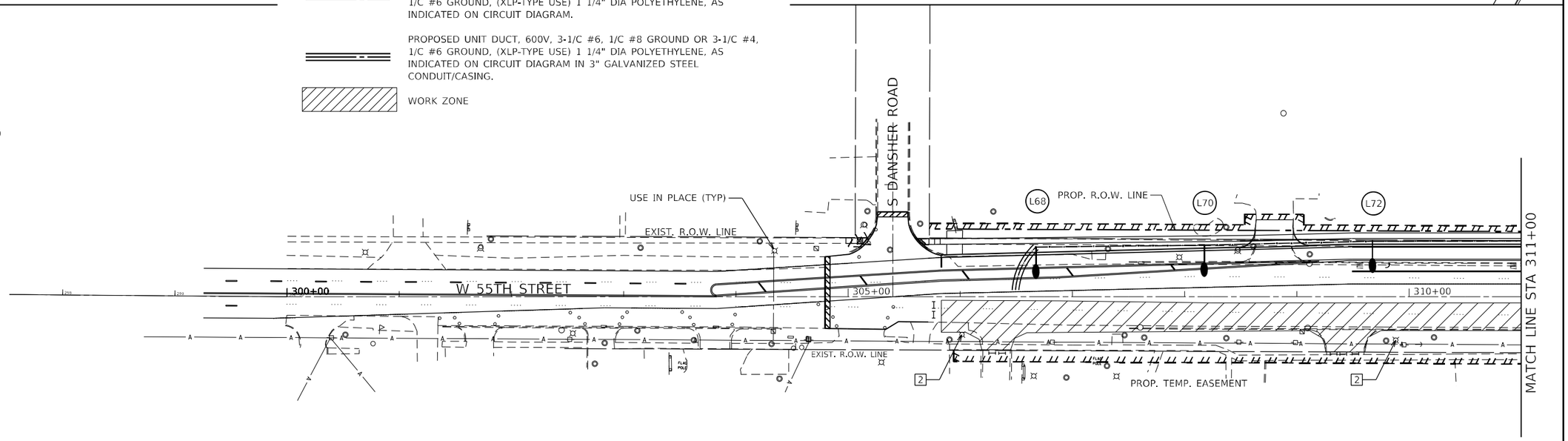
PROPOSED 16,000 LUMENS LED, 35' LIGHT POLE W/15' MAST ARM, BREAKAWAY COUPLING BASE, AND 24" FOUNDATION.

PROPOSED UNIT DUCT, 600V, 3-1/C #6, 1/C #8 GROUND OR 3-1/C #4, 1/C #6 GROUND, (XLP-TYPE USE) 1 1/4" DIA POLYETHYLENE, AS INDICATED ON CIRCUIT DIAGRAM.

PROPOSED UNIT DUCT, 600V, 3-1/C #6, 1/C #8 GROUND OR 3-1/C #4, 1/C #6 GROUND, (XLP-TYPE USE) 1 1/4" DIA POLYETHYLENE, AS INDICATED ON CIRCUIT DIAGRAM IN 3" GALVANIZED STEEL CONDUIT/CASING.

WORK ZONE





ABNA JOB NO.16-6239

ABNA	USER NAME = mconroy	DESIGNED - F. EPPERT	REVISED -
		DRAWN - M. CONROY	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED - J. OLUBOGUN	REVISED -
	PLOT DATE = 7/30/2021	DATE - 06/04/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

JOLIET RD /55TH ST LIGHTING STAGE 3 PLAN – I
EAST AVENUE (55TH ST TO JOLIET RD)

SCALE: | SHEET 3 OF 4 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	426	284
		CONTRACT NO. 62C25		
	ILLINOIS	FED. AID PROJECT		

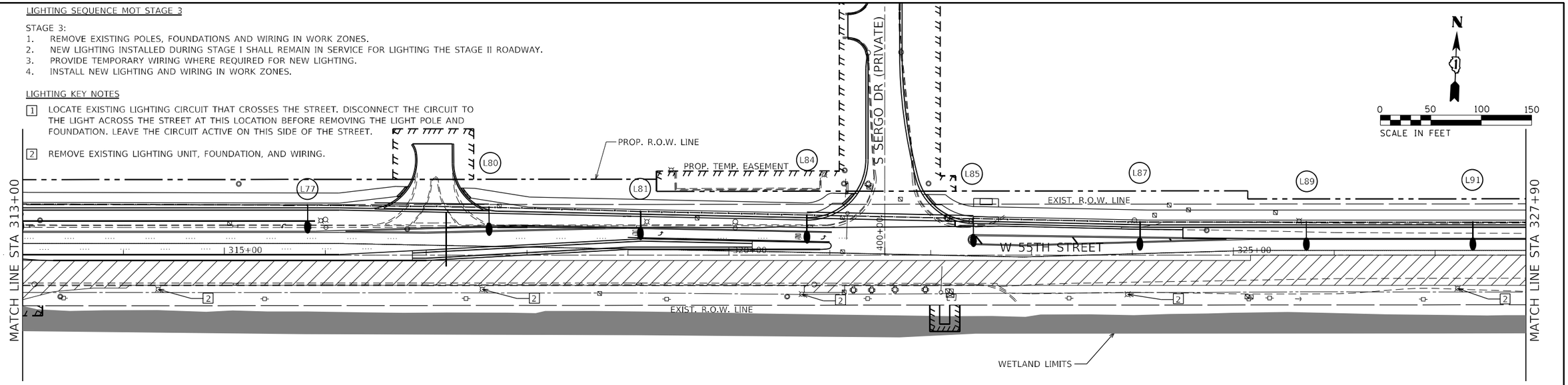
LIGHTING SEQUENCE MOT STAGE 3

STAGE 3:
1. REMOVE EXISTING POLES, FOUNDATIONS AND WIRING IN WORK ZONES.
2. NEW LIGHTING INSTALLED DURING STAGE I SHALL REMAIN IN SERVICE FOR LIGHTING THE STAGE II ROADWAY.
3. PROVIDE TEMPORARY WIRING WHERE REQUIRED FOR NEW LIGHTING.
4. INSTALL NEW LIGHTING AND WIRING IN WORK ZONES.

LIGHTING KEY NOTES

1 LOCATE EXISTING LIGHTING CIRCUIT THAT CROSSES THE STREET. DISCONNECT THE CIRCUIT TO THE LIGHT ACROSS THE STREET AT THIS LOCATION BEFORE REMOVING THE LIGHT POLE AND FOUNDATION. LEAVE THE CIRCUIT ACTIVE ON THIS SIDE OF THE STREET.

2 REMOVE EXISTING LIGHTING UNIT, FOUNDATION, AND WIRING.



LIGHTING LEGEND

EXISTING 400W HPS ON 35' LIGHT POLE

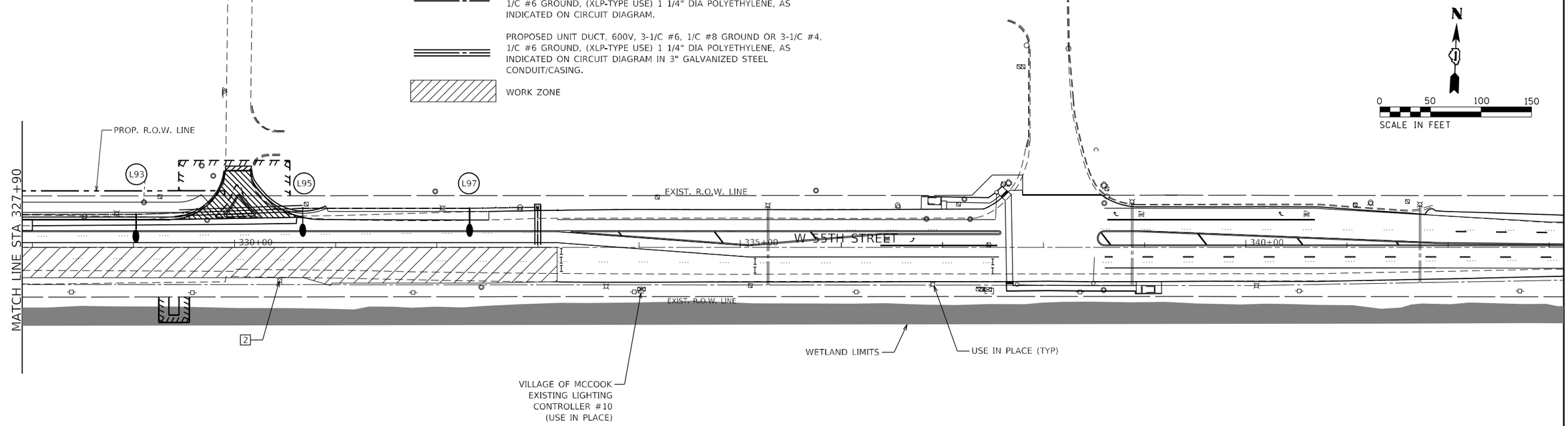
PROPOSED 25,000 LUMENS LED, 35' LIGHT POLE W/15' MAST ARM, BREAKAWAY COUPLING BASE, AND 24" FOUNDATION.

PROPOSED 16,000 LUMENS LED, 35' LIGHT POLE W/15' MAST ARM, BREAKAWAY COUPLING BASE, AND 24" FOUNDATION.

PROPOSED UNIT DUCT, 600V, 3-1/C #6, 1/C #8 GROUND OR 3-1/C #4, 1/C #6 GROUND, (XLP-TYPE USE) 1 1/4" DIA POLYETHYLENE, AS INDICATED ON CIRCUIT DIAGRAM.

PROPOSED UNIT DUCT, 600V, 3-1/C #6, 1/C #8 GROUND OR 3-1/C #4, 1/C #6 GROUND, (XLP-TYPE USE) 1 1/4" DIA POLYETHYLENE, AS INDICATED ON CIRCUIT DIAGRAM IN 3" GALVANIZED STEEL CONDUIT/CASING.

WORK ZONE



ABNA JOB NO. 16-6239

USER NAME = mconroy	DESIGNED - F. EPPERT	REVISED -	
	DRAWN - M. CONROY	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - J. OLUBOGUN	REVISED -	
PLOT DATE = 7/30/2021	DATE - 06/04/2021	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

55TH ST LIGHTING STAGE 3 PLAN – II
EAST AVENUE (55TH ST TO JOLIET RD)

SCALE: | SHEET 4 OF 4 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	426	285
		CONTRACT NO. 62C25		
	ILLINOIS	FED. AID PROJECT		

LEFT SIDE LIGHTS				
POLE NO.	STATION	OFFSET	CIRCUIT	MUNICIPALITY
L02	204+25.06	33.0'	1-DS	HODGKINS
L05	112+01.57	38.6'	1-DS	COUNTRY SIDE
L05A	205+75.32	53.2'	1-DS	COUNTRY SIDE
L06	206+25.42	34.1'	1-CS	COUNTRY SIDE
L07	114+27.92	44.6'	1-BS	HODGKINS
L08	207+48.43	34.1'	1-DS	COUNTRY SIDE
L10	208+98.43	34.4'	1-CS	COUNTRY SIDE
L12	210+48.43	36.3'	1-DS	COUNTRY SIDE

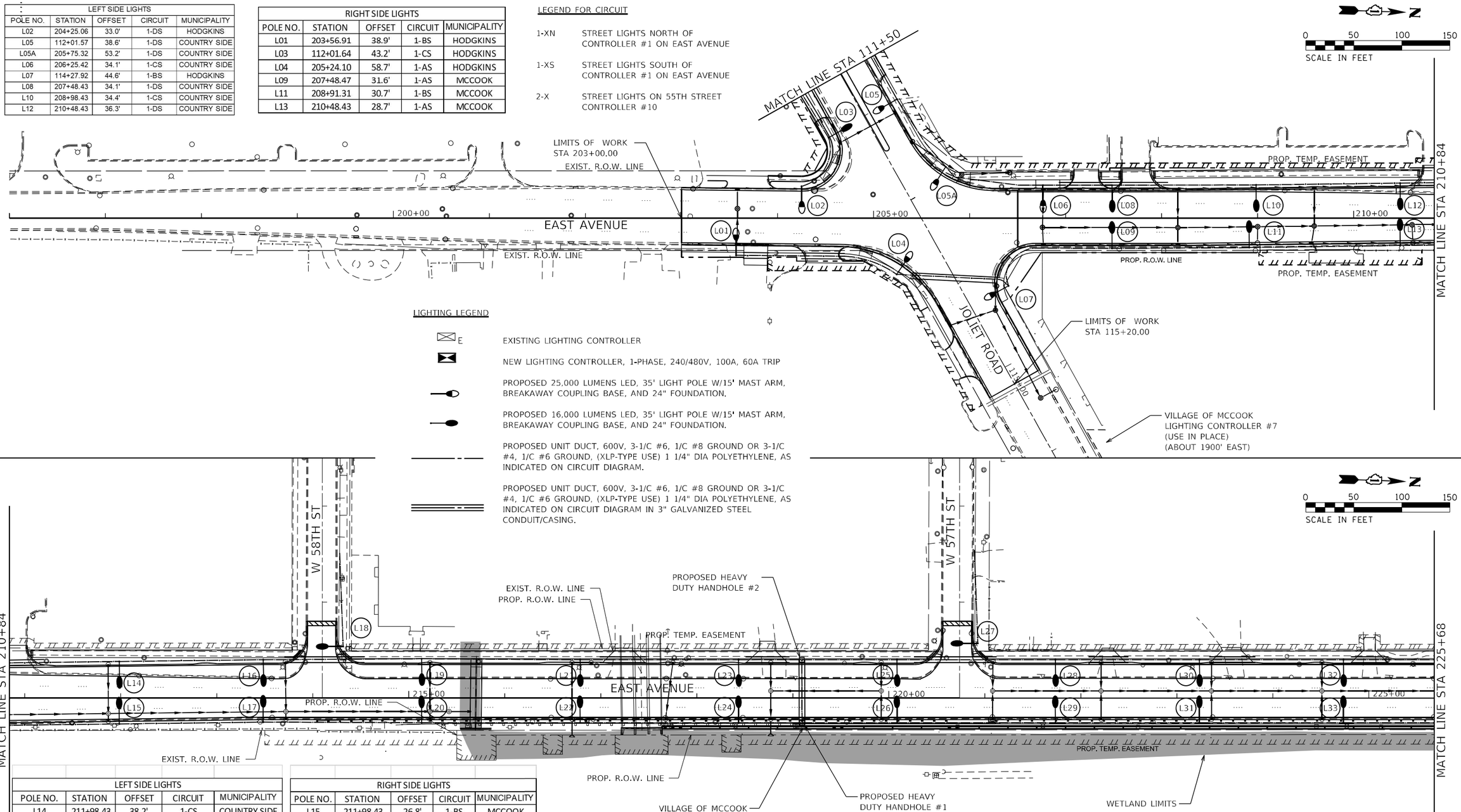
RIGHT SIDE LIGHTS				
POLE NO.	STATION	OFFSET	CIRCUIT	MUNICIPALITY
L01	203+56.91	38.9'	1-BS	HODGKINS
L03	112+01.64	43.2'	1-CS	HODGKINS
L04	205+24.10	58.7'	1-AS	HODGKINS
L09	207+48.47	31.6'	1-AS	MCCOOK
L11	208+91.31	30.7'	1-BS	MCCOOK
L13	210+48.43	28.7'	1-AS	MCCOOK

LEGEND FOR CIRCUIT

1-XN STREET LIGHTS NORTH OF CONTROLLER #1 ON EAST AVENUE

1-XS STREET LIGHTS SOUTH OF CONTROLLER #1 ON EAST AVENUE

2-X STREET LIGHTS ON 55TH STREET CONTROLLER #10



LIGHTING LEGEND

E — EXISTING LIGHTING CONTROLLER

NEW LIGHTING CONTROLLER, 1-PHASE, 240/480V, 100A, 60A TRIP

PROPOSED 25,000 LUMENS LED, 35' LIGHT POLE W/15' MAST ARM, BREAKAWAY COUPLING BASE, AND 24" FOUNDATION.

PROPOSED 16,000 LUMENS LED, 35' LIGHT POLE W/15' MAST ARM, BREAKAWAY COUPLING BASE, AND 24" FOUNDATION.

PROPOSED UNIT DUCT, 600V, 3-1/C #6, 1/C #8 GROUND OR 3-1/C #4, 1/C #6 GROUND, (XLP-TYPE USE) 1 1/4" DIA POLYETHYLENE, AS INDICATED ON CIRCUIT DIAGRAM.

PROPOSED UNIT DUCT, 600V, 3-1/C #6, 1/C #8 GROUND OR 3-1/C #4, 1/C #6 GROUND, (XLP-TYPE USE) 1 1/4" DIA POLYETHYLENE, AS INDICATED ON CIRCUIT DIAGRAM IN 3" GALVANIZED STEEL CONDUIT/CASING.

LEFT SIDE LIGHTS				
POLE NO.	STATION	OFFSET	CIRCUIT	MUNICIPALITY
L14	211+98.43	38.2'	1-CS	COUNTRY SIDE
L16	213+48.43	40.0'	1-DS	COUNTRY SIDE
L18	499+46.17	21.6'	N/A	COUNTRY SIDE
L19	215+13.42	41.0'	1-CS	COUNTRY SIDE
L21	216+78.43	40.0'	1-DS	COUNTRY SIDE
L23	218+43.43	40.0'	1-CS	COUNTRY SIDE
L25	220+08.43	40.0'	1-DN	COUNTRY SIDE
L27	599+42.95	19.1'	N/A	COUNTRY SIDE
L28	221+73.43	40.0'	1-CN	COUNTRY SIDE
L30	223+23.43	40.0'	1-DN	COUNTRY SIDE

RIGHT SIDE LIGHTS				
POLE NO.	STATION	OFFSET	CIRCUIT	MUNICIPALITY
L15	211+98.43	26.8'	1-BS	MCCOOK
L17	213+48.43	25.0'	1-AS	MCCOOK
L20	215+13.43	25.6'	1-BS	MCCOOK
L22	216+78.43	25.6	1-AS	MCCOOK
L24	218+43.43	25.6'	1-BS	MCCOOK
L26	220+08.43	25.6'	1-AN	MCCOOK
L29	221+73.43	25.6'	1-BN	MCCOOK
L31	223+23.43	25.6'	1-AN	MCCOOK

ABNA JOB NO. 16-6239

ABNA

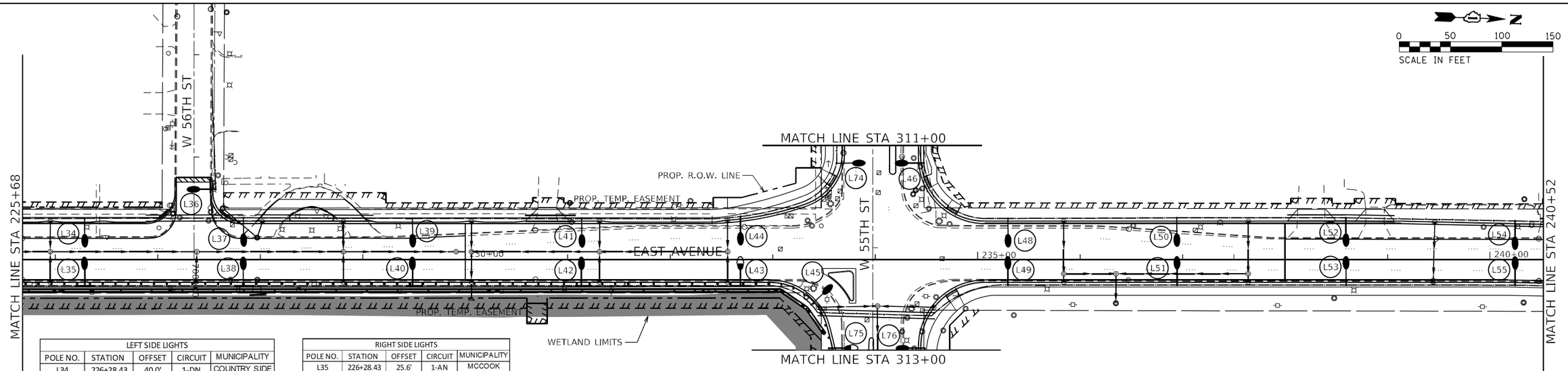
USER NAME = mconroy	DESIGNED - F. EPPERT	REVISED -	
	DRAWN - M. CONROY	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - J. OLUBOGUN	REVISED -	
PLOT DATE = 7/30/2021	DATE - 06/04/2021	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EAST AVE PROPOSED LIGHTING PLAN – I
EAST AVENUE (55TH ST TO JOLIET RD)

SCALE: | SHEET 1 OF 4 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	426	286
		CONTRACT NO. 62C25		
	ILLINOIS FED. AID PROJECT			



LEFT SIDE LIGHTS				
POLE NO.	STATION	OFFSET	CIRCUIT	MUNICIPALITY
L34	226+28.43	40.0'	1-DN	COUNTRY SIDE
L36	697+76.99	21.2'	N/A	COUNTRY SIDE
L37	227+83.43	40.6'	1-CN	COUNTRY SIDE
L39	229+48.43	40.0'	1-DN	COUNTRY SIDE
L41	231+13.57	39.8'	1-CN	COUNTRY SIDE
L44	311+17.34	35.3'	1-DN	COUNTRY SIDE
L74	311+17.53	35.3'	1-CN	COUNTRY SIDE
L46	311+17.36	49.9'	1-DN	COUNTRY SIDE
L48	235+29.58	40.0'	1-CN	COUNTRY SIDE
L50	236+94.33	40.6'	1-DN	COUNTRY SIDE
L52	238+59.33	40.6'	1-CN	COUNTRY SIDE
L54	240+24.34	37.5'	1-DN	COUNTRY SIDE

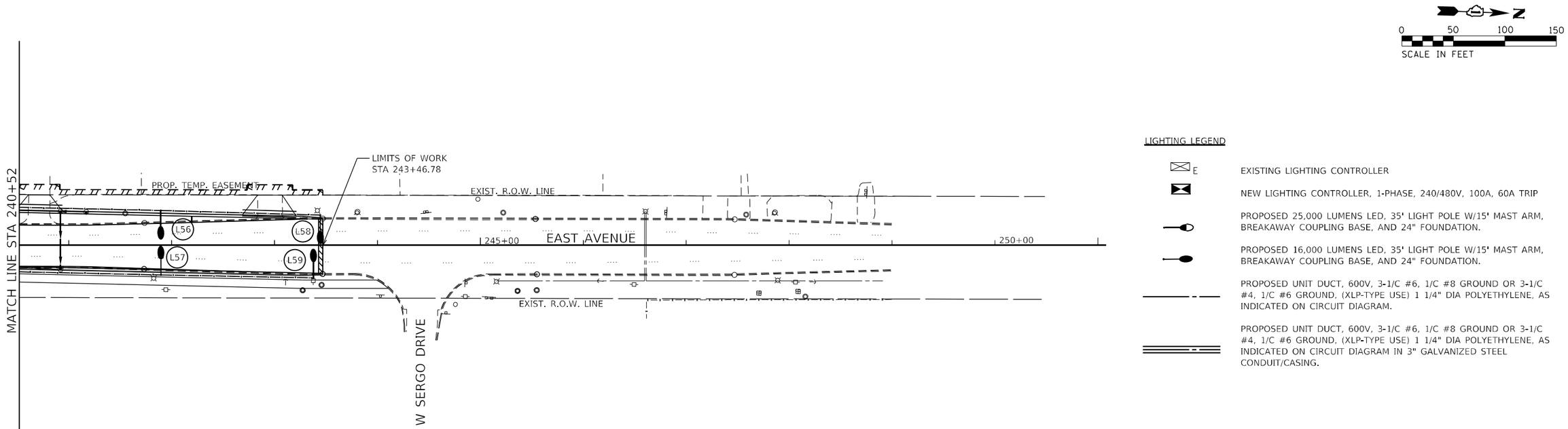
RIGHT SIDE LIGHTS				
POLE NO.	STATION	OFFSET	CIRCUIT	MUNICIPALITY
L35	226+28.43	25.6'	1-AN	MCCOOK
L38	227+83.43	25.6'	1-BN	MCCOOK
L40	229+48.43	25.6'	1-AN	MCCOOK
L42	231+13.43	25.6'	1-BN	MCCOOK
L43	232+68.64	25.6'	1-AN	MCCOOK
L45	233+37.69	44.2'	1-BN	MCCOOK
L75	312+98.21	42.9'	2-B	MCCOOK
L76	312+98.40	50.5'	2-A	MCCOOK
L47	NOT USED			
L49	235+29.59	25.0'	1-BN	MCCOOK
L51	236+94.59	25.0'	1-AN	MCCOOK
L53	238+59.59	25.0'	1-BN	MCCOOK
L55	240+24.59	25.2'	1-AN	MCCOOK

LEGEND FOR CIRCUIT

1-XN STREET LIGHTS NORTH OF CONTROLLER #1 ON EAST AVENUE

1-XS STREET LIGHTS SOUTH OF CONTROLLER #1 ON EAST AVENUE

2-X STREET LIGHTS ON 55TH STREET CONTROLLER #10



LEFT SIDE LIGHTS				
POLE NO.	STATION	OFFSET	CIRCUIT	MUNICIPALITY
L56	241+89.36	33.9'	1-CN	COUNTRY SIDE
L58	243+44.35	29.4'	1-DN	COUNTRY SIDE

RIGHT SIDE LIGHTS				
POLE NO.	STATION	OFFSET	CIRCUIT	MUNICIPALITY
L57	241+89.61	28.8'	1-BN	MCCOOK
L59	243+37.81	31.7"	1-AN	MCCOOK

LIGHTING LEGEND

E — EXISTING LIGHTING CONTROLLER

NEW LIGHTING CONTROLLER, 1-PHASE, 240/480V, 100A, 60A TRIP

PROPOSED 25,000 LUMENS LED, 35' LIGHT POLE W/15' MAST ARM, BREAKAWAY COUPLING BASE, AND 24" FOUNDATION.

PROPOSED 16,000 LUMENS LED, 35' LIGHT POLE W/15' MAST ARM, BREAKAWAY COUPLING BASE, AND 24" FOUNDATION.

PROPOSED UNIT DUCT, 600V, 3-1/C #6, 1/C #8 GROUND OR 3-1/C #4, 1/C #6 GROUND, (XLP-TYPE USE) 1 1/4" DIA POLYETHYLENE, AS INDICATED ON CIRCUIT DIAGRAM.

PROPOSED UNIT DUCT, 600V, 3-1/C #6, 1/C #8 GROUND OR 3-1/C #4, 1/C #6 GROUND, (XLP-TYPE USE) 1 1/4" DIA POLYETHYLENE, AS INDICATED ON CIRCUIT DIAGRAM IN 3" GALVANIZED STEEL CONDUIT/CASING.

ABNA JOB NO. 16-6239

ABNA

USER NAME = mconroy	DESIGNED - F. EPPERT	REVISED -	
	DRAWN - M. CONROY	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - J. OLUBOGUN	REVISED -	
PLOT DATE = 7/30/2021	DATE - 06/04/2021	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EAST AVE PROPOSED LIGHTING PLAN – II
EAST AVENUE (55TH ST TO JOLIET RD)

SCALE: | SHEET 2 OF 4 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	426	287
		CONTRACT NO. 62C25		
	ILLINOIS FED. AID PROJECT			

LEFT SIDE LIGHTS				
POLE NO.	STATION	OFFSET	CIRCUIT	MUNICIPALITY
L60	106+28.92	35.7'	1-DS	COUNTRY SIDE
L62	107+82.57	37.8'	1-CS	COUNTRY SIDE
L64	109+75.26	38.6'	1-DS	COUNTRY SIDE
L66	111+12.57	38.6'	1-CS	COUNTRY SIDE

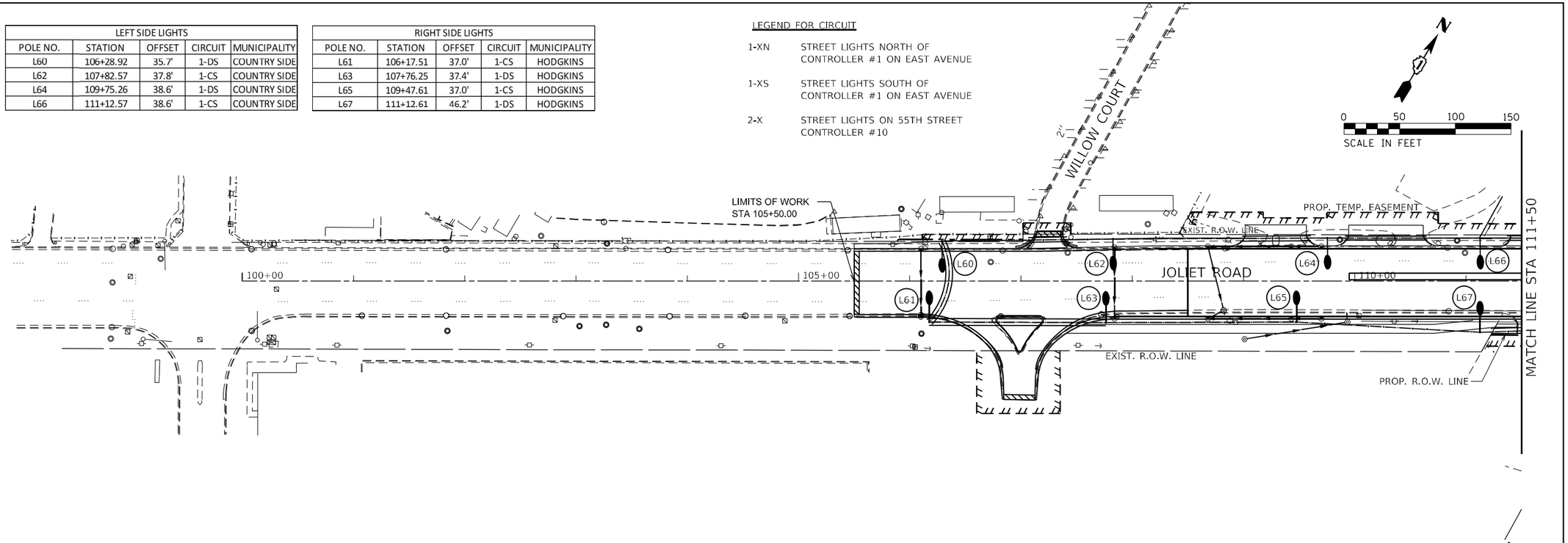
RIGHT SIDE LIGHTS				
POLE NO.	STATION	OFFSET	CIRCUIT	MUNICIPALITY
L61	106+17.51	37.0'	1-CS	HODGKINS
L63	107+76.25	37.4'	1-DS	HODGKINS
L65	109+47.61	37.0'	1-CS	HODGKINS
L67	111+12.61	46.2'	1-DS	HODGKINS

LEGEND FOR CIRCUIT

1-XN STREET LIGHTS NORTH OF CONTROLLER #1 ON EAST AVENUE

1-XS STREET LIGHTS SOUTH OF CONTROLLER #1 ON EAST AVENUE

2-X STREET LIGHTS ON 55TH STREET CONTROLLER #10



LEFT SIDE LIGHTS				
POLE NO.	STATION	OFFSET	CIRCUIT	MUNICIPALITY
L68	306+67.33	44.3'	1-CN	COUNTRY SIDE
L70	308+17.32	46.1'	1-DN	COUNTRY SIDE
L72	309+67.32	49.5'	1-CN	COUNTRY SIDE

RIGHT SIDE LIGHTS				
POLE NO.	STATION	OFFSET	CIRCUIT	MUNICIPALITY
L69	306+59.36	32.6'	1-DN	COUNTRY SIDE
L71	308+17.32	32.7'	1-CN	COUNTRY SIDE
L73	309+77.32	32.5'	1-DN	COUNTRY SIDE

LIGHTING LEGEND

E EXISTING LIGHTING CONTROLLER

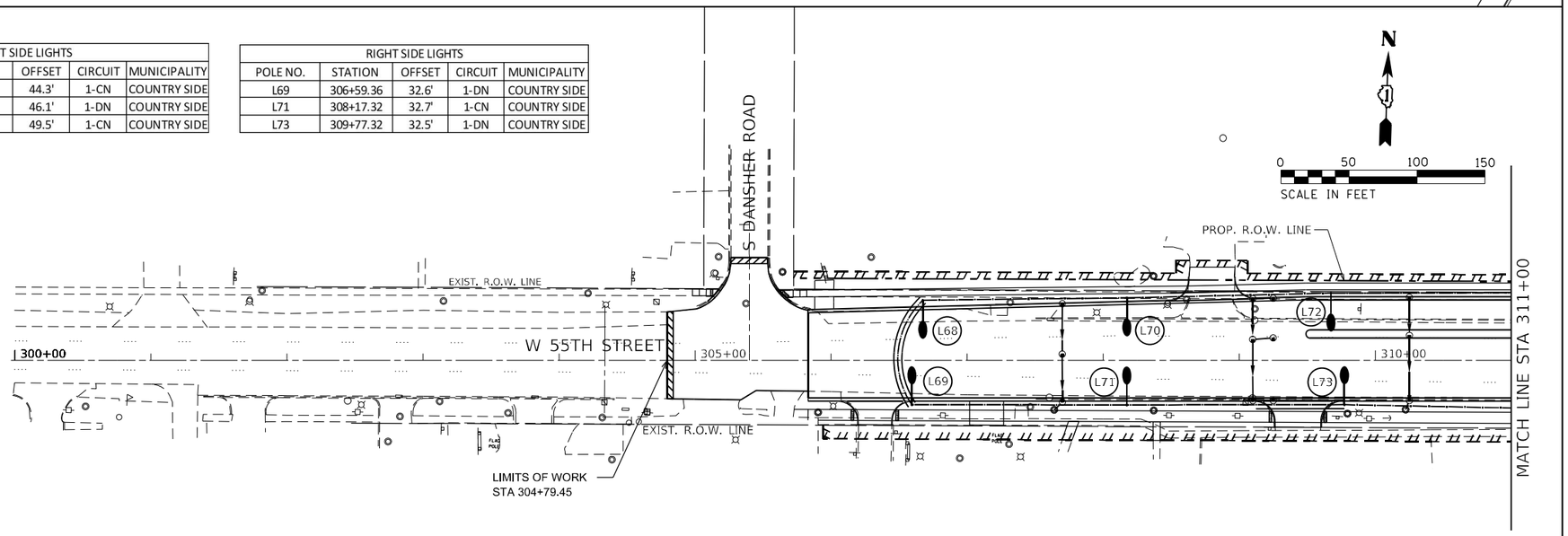
NEW LIGHTING CONTROLLER, 1-PHASE, 240/480V, 100A, 60A TRIP

PROPOSED 25,000 LUMENS LED, 35' LIGHT POLE W/15' MAST ARM, BREAKAWAY COUPLING BASE, AND 24" FOUNDATION.

PROPOSED 16,000 LUMENS LED, 35' LIGHT POLE W/15' MAST ARM, BREAKAWAY COUPLING BASE, AND 24" FOUNDATION.

PROPOSED UNIT DUCT, 600V, 3-1/C #6, 1/C #8 GROUND OR 3-1/C #4, 1/C #6 GROUND, (XLP-TYPE USE) 1 1/4" DIA POLYETHYLENE, AS INDICATED ON CIRCUIT DIAGRAM.

PROPOSED UNIT DUCT, 600V, 3-1/C #6, 1/C #8 GROUND OR 3-1/C #4, 1/C #6 GROUND, (XLP-TYPE USE) 1 1/4" DIA POLYETHYLENE, AS INDICATED ON CIRCUIT DIAGRAM IN 3" GALVANIZED STEEL CONDUIT/CASING.



ABNA JOB NO. 16-6239

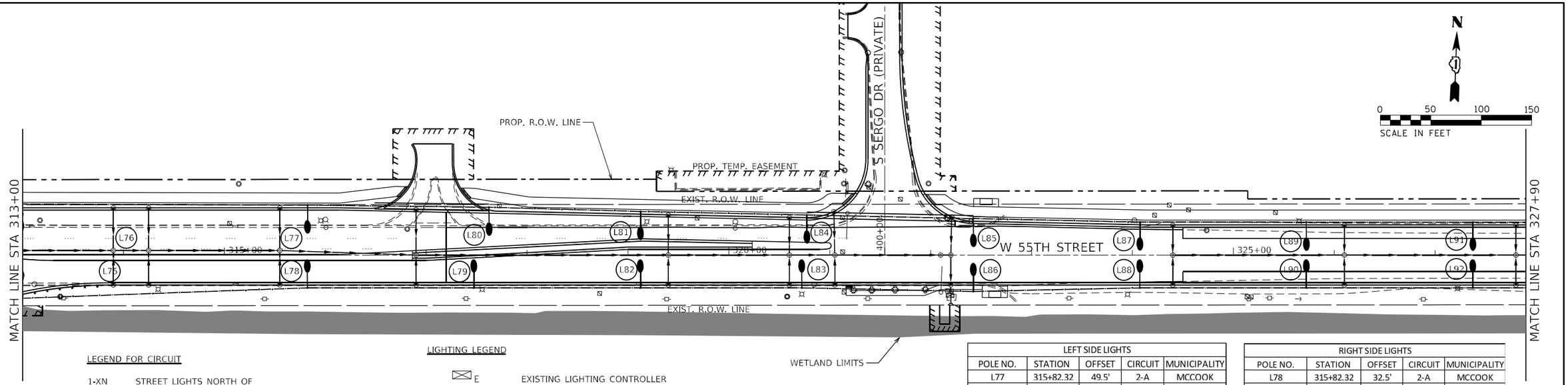
ABNA	USER NAME = mconroy	DESIGNED - F. EPPERT	REVISED -
		DRAWN - M. CONROY	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED - J. OLUBOGUN	REVISED -
	PLOT DATE = 7/30/2021	DATE - 06/04/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

JOLIET RD /55TH ST PROPOSED LIGHTING PLAN – I
EAST AVENUE (55TH ST TO JOLIET RD)

SCALE: | SHEET 3 OF 4 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	426	288
		CONTRACT NO. 62C25		
	ILLINOIS FED. AID PROJECT			



LEGEND FOR CIRCUIT

1-XN	STREET LIGHTS NORTH OF CONTROLLER #1 ON EAST AVENUE
1-XS	STREET LIGHTS SOUTH OF CONTROLLER #1 ON EAST AVENUE
2-X	STREET LIGHTS ON 55TH STREET CONTROLLER #10

LIGHTING LEGEND

E	EXISTING LIGHTING CONTROLLER
	NEW LIGHTING CONTROLLER, 1-PHASE, 240/480V, 100A, 60A TRIP
	PROPOSED 25,000 LUMENS LED, 35' LIGHT POLE W/15' MAST ARM, BREAKAWAY COUPLING BASE, AND 24" FOUNDATION.
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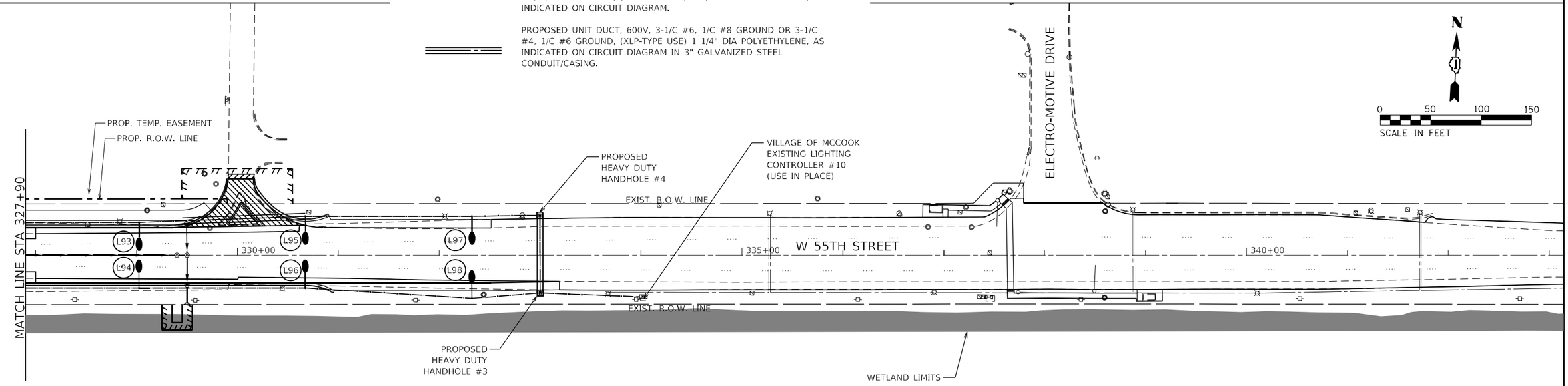
LEFT SIDE LIGHTS

POLE NO.	STATION	OFFSET	CIRCUIT	MUNICIPALITY
L77	315+82.32	49.5'	2-A	MCCOOK
L80	317+62.32	47.4'	2-A	MCCOOK
L81	319+12.32	43.2'	2-A	MCCOOK
L84	320+77.32	39.7'	2 A	MCCOOK
L85	322+42.32	36.2'	2-A	MCCOOK
L87	324+07.32	32.7'	2-A	MCCOOK
L89	325+72.32	32.5'	2-A	MCCOOK
L91	327+37.32	32.5'	2-A	MCCOOK

RIGHT SIDE LIGHTS

POLE NO.	STATION	OFFSET	CIRCUIT	MUNICIPALITY
L78	315+82.32	32.5'	2-A	MCCOOK
L79	317+47.32	32.5	2-B	MCCOOK
L82	319+12.32	32.5'	2-A	MCCOOK
L83	320+72.32	32.5'	2-B	MCCOOK
L86	322+42.32	32.5'	2-A	MCCOOK
L88	324+07.32	32.5'	2-B	MCCOOK
L90	325+72.32	32.5'	2-A	MCCOOK
L92	327+37.32	32.5'	2-B	MCCOOK



LEFT SIDE LIGHTS

POLE NO.	STATION	OFFSET	CIRCUIT	MUNICIPALITY
L93	329+02.32	32.5'	2-B	MCCOOK
L95	330+67.32	38.5'	2-A	MCCOOK
L97	332+32.32	38.5'	2-B	MCCOOK

RIGHT SIDE LIGHTS

POLE NO.	STATION	OFFSET	CIRCUIT	MUNICIPALITY
L94	329+02.32	32.5'	2-A	MCCOOK
L96	330+67.32	32.5'	2-3	MCCOOK
L98	332+32.30	43.0'	2-A	MCCOOK

ABNA JOB NO. 16-6239

ABNA

USER NAME = mconroy	DESIGNED - F. EPPERT	REVISED -	
	DRAWN - M. CONROY	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - J. OLUBOGUN	REVISED -	
PLOT DATE = 7/30/2021	DATE - 06/04/2021	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

55TH ST PROPOSED LIGHTING PLAN – II
EAST AVENUE (55TH ST TO JOLIET RD)

SCALE: | SHEET 4 OF 4 SHEETS | STA. | TO STA.

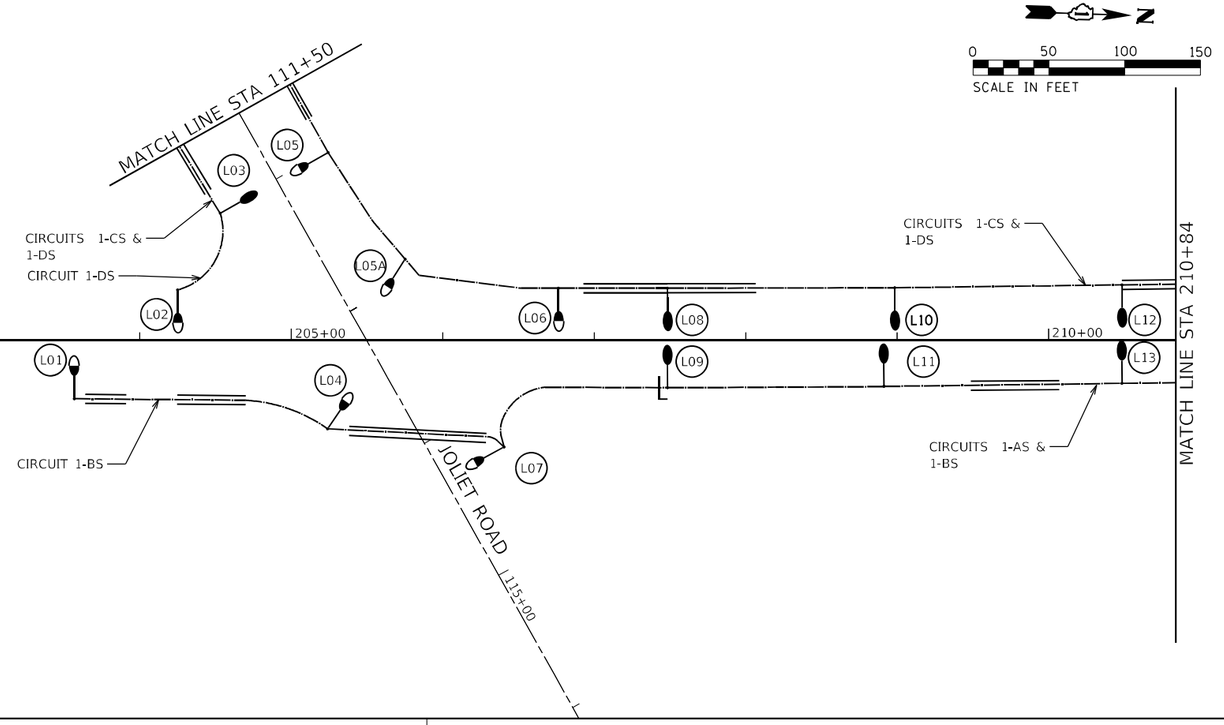
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	426	289
		CONTRACT NO. 62C25		
		ILLINOIS FED. AID PROJECT		

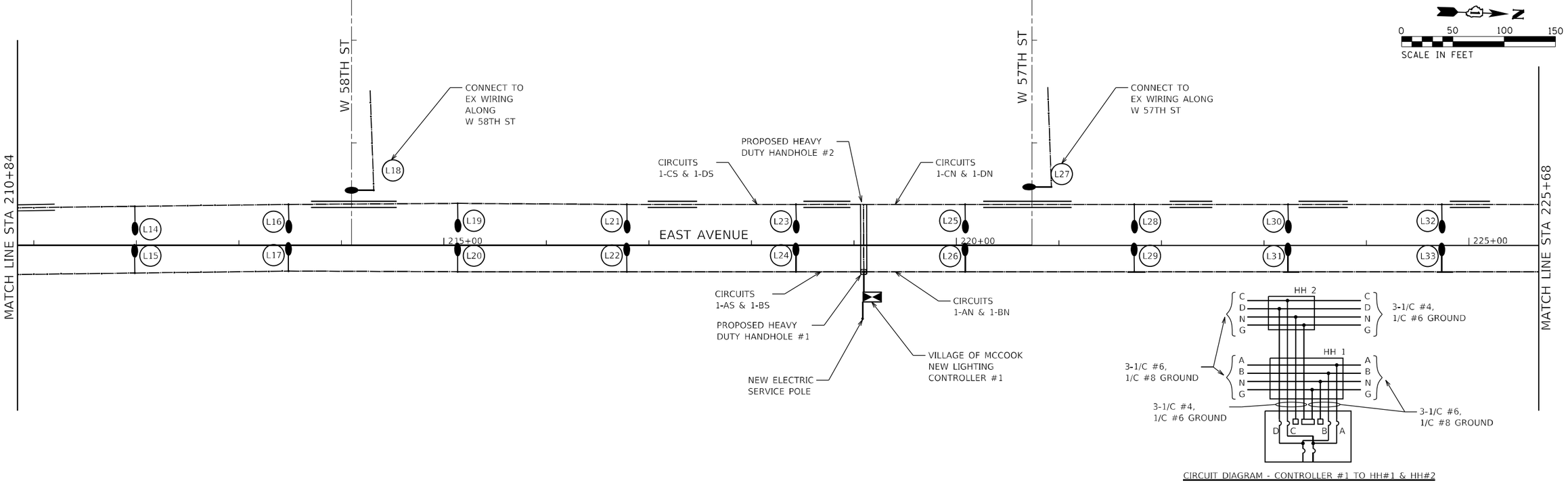
LIGHTING LEGEND

E	EXISTING LIGHTING CONTROLLER
	NEW LIGHTING CONTROLLER, 1-PHASE, 240/480V, 100A, 60A TRIP
	PROPOSED 25,000 LUMENS LED, 35' LIGHT POLE W/15' MAST ARM, BREAKAWAY COUPLING BASE, AND 24" FOUNDATION.
	PROPOSED 16,000 LUMENS LED, 35' LIGHT POLE W/15' MAST ARM, BREAKAWAY COUPLING BASE, AND 24" FOUNDATION.
	PROPOSED UNIT DUCT, 600V, 3-1/C #6, 1/C #8 GROUND OR 3-1/C #4, 1/C #6 GROUND, (XLP-TYPE USE) 1 1/4" DIA POLYETHYLENE, AS INDICATED ON CIRCUIT DIAGRAM.
	PROPOSED UNIT DUCT, 600V, 3-1/C #6, 1/C #8 GROUND OR 3-1/C #4, 1/C #6 GROUND, (XLP-TYPE USE) 1 1/4" DIA POLYETHYLENE, AS INDICATED ON CIRCUIT DIAGRAM IN 3" GALVANIZED STEEL CONDUIT/CASING.

MCCOOK LIGHTING CONTROLLER "#1" LOAD TABLE					
PROPOSED 60A LIGHTING CONTROLLER					
SUPPLY 240/480V 1 PHASE 3W CIRCUITS @ 240 VOLTS					
CIRCUIT	RED PHASE		CIRCUIT	BLACK PHASE	
	AMPS	WATTS		AMPS	WATTS
A	6.9	1656	B	7.8	1872
C	12.6	3024	D	12.60	3024
SPARE 1		0	SPARE 2		0
TOTAL	19.5	4680	TOTAL	20.4	4896
TOTAL CONNECTED LOAD ON CONTROLLER (@240v)				39.9	9576
TOTAL CONNECTED LOAD ON CONTROLLER (@480v)				20.0	9576

MCCOOK LIGHTING CONTROLLER "#10" LOAD TABLE					
EXISTING 60A LIGHTING CONTROLLER					
SUPPLY 240/480V 1 PHASE 3W CIRCUITS @ 240 VOLTS					
CIRCUIT	RED PHASE		CIRCUIT	BLACK PHASE	
	AMPS	WATTS		AMPS	WATTS
A	7.5	1800	B	7.2	1728
SPARE 1		0	SPARE 2		0
EXISTING	11.7	2800	EXISTING	11.7	2800
TOTAL	19.2	4600	TOTAL	18.9	4528
TOTAL CONNECTED LOAD ON CONTROLLER (@240v)				38.1	9128
TOTAL CONNECTED LOAD ON CONTROLLER (@480v)				19.1	9128





CIRCUIT DIAGRAM - CONTROLLER #1 TO HH#1 & HH#2

ABNA JOB NO. 16-6239

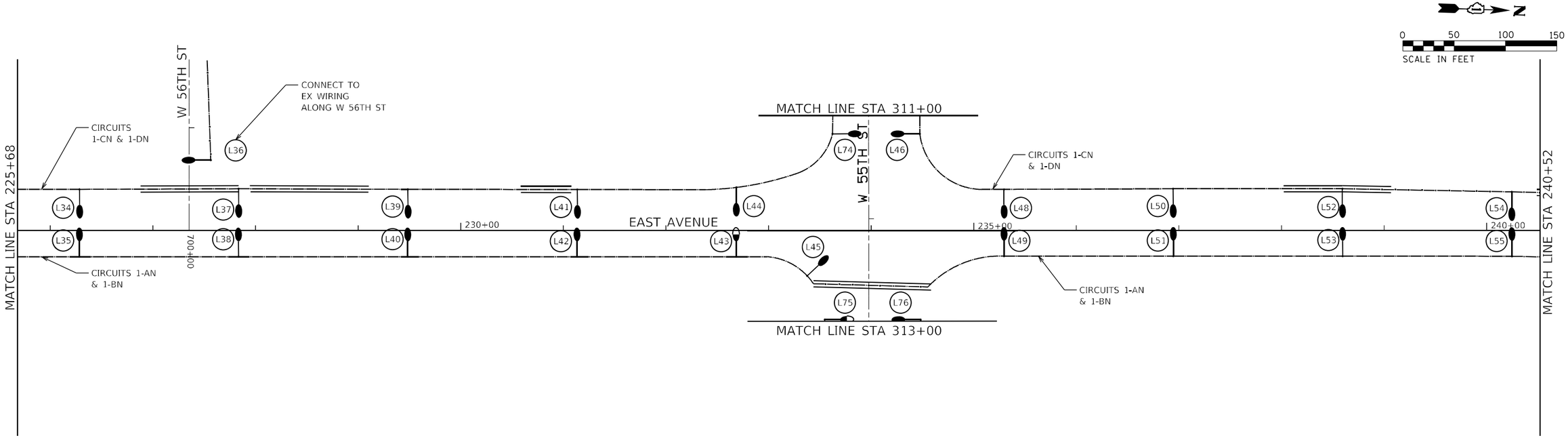
USER NAME = mconroy	DESIGNED - F. EPPERT	REVISED -	
	DRAWN - M. CONROY	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - J. OLUBOGUN	REVISED -	
PLOT DATE = 7/30/2021	DATE - 06/04/2021	REVISED -	

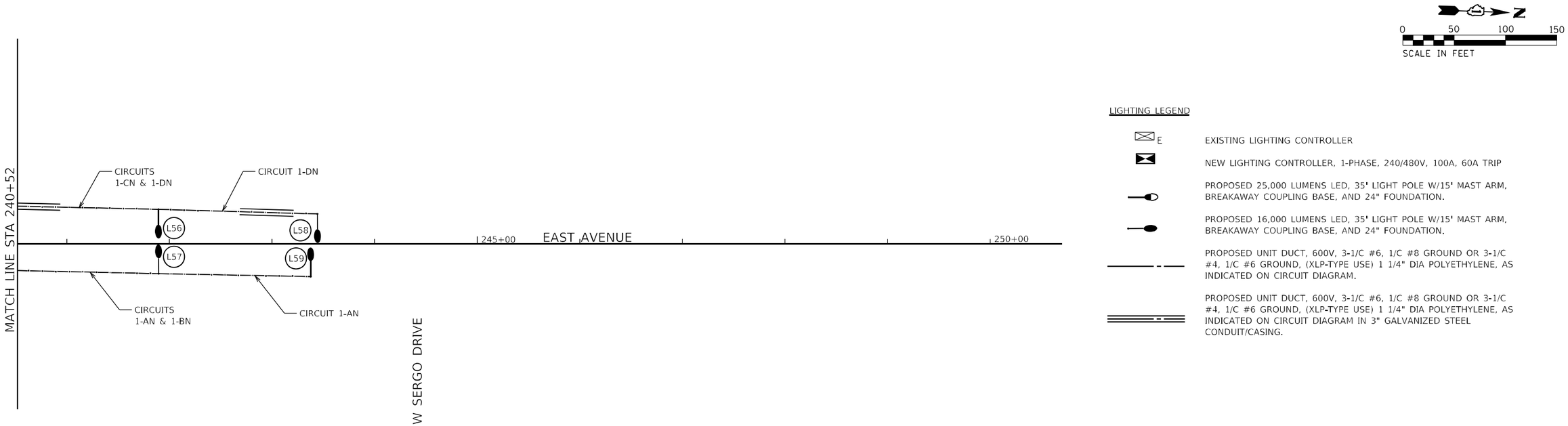
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EAST AVE PROPOSED WIRING DIAGRAM PLAN – I
EAST AVENUE (55TH ST TO JOLIET RD)

SCALE: | SHEET 1 OF 4 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	426	290
		CONTRACT NO. 62C25		
	ILLINOIS FED. AID PROJECT			





LIGHTING LEGEND

E	EXISTING LIGHTING CONTROLLER
	NEW LIGHTING CONTROLLER, 1-PHASE, 240/480V, 100A, 60A TRIP
	PROPOSED 25,000 LUMENS LED, 35' LIGHT POLE W/15' MAST ARM, BREAKAWAY COUPLING BASE, AND 24" FOUNDATION.
	PROPOSED 16,000 LUMENS LED, 35' LIGHT POLE W/15' MAST ARM, BREAKAWAY COUPLING BASE, AND 24" FOUNDATION.
	PROPOSED UNIT DUCT, 600V, 3-1/C #6, 1/C #8 GROUND OR 3-1/C #4, 1/C #6 GROUND, (XLP-TYPE USE) 1 1/4" DIA POLYETHYLENE, AS INDICATED ON CIRCUIT DIAGRAM.
	PROPOSED UNIT DUCT, 600V, 3-1/C #6, 1/C #8 GROUND OR 3-1/C #4, 1/C #6 GROUND, (XLP-TYPE USE) 1 1/4" DIA POLYETHYLENE, AS INDICATED ON CIRCUIT DIAGRAM IN 3" GALVANIZED STEEL CONDUIT/CASING.

ABNA JOB NO. 16-6239

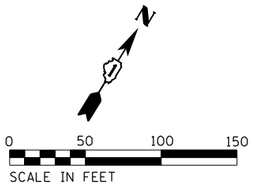
ABNA	USER NAME = mconroy	DESIGNED - F. EPPERT	REVISED -
		DRAWN - M. CONROY	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED - J. OLUBOGUN	REVISED -
	PLOT DATE = 7/30/2021	DATE - 06/04/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EAST AVE PROPOSED WIRING DIAGRAM PLAN – II
EAST AVENUE (55TH ST TO JOLIET RD)

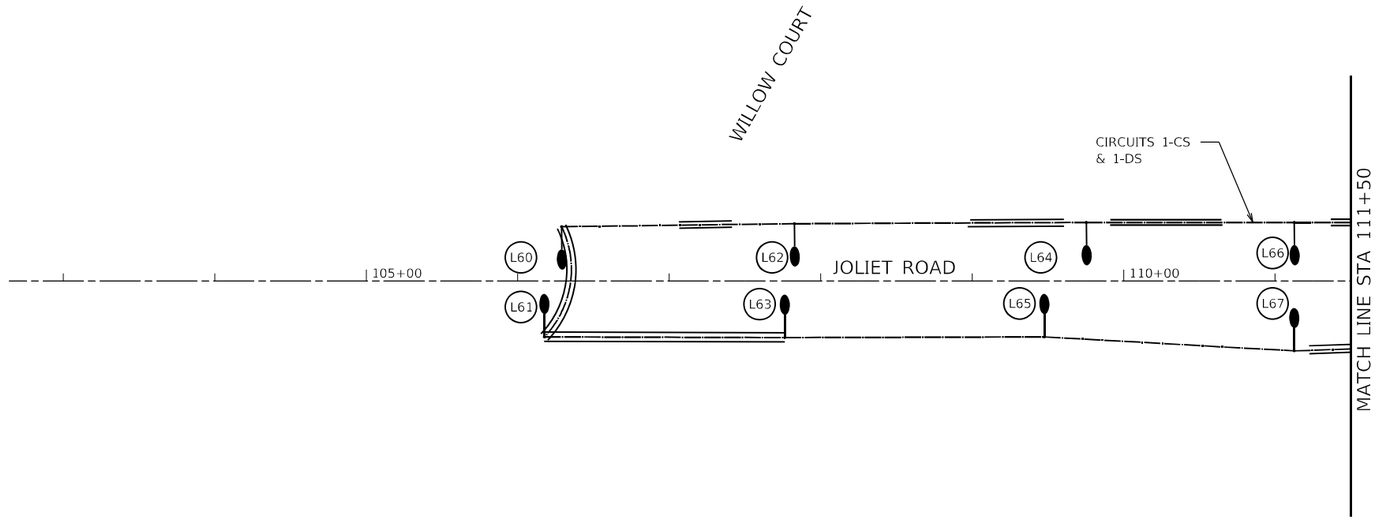
SCALE: | SHEET 2 OF 4 SHEETS | STA. | TO STA.

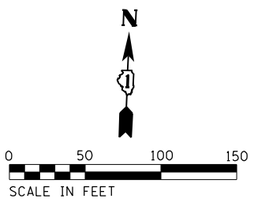
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	426	291
		CONTRACT NO. 62C25		
	ILLINOIS FED. AID PROJECT			

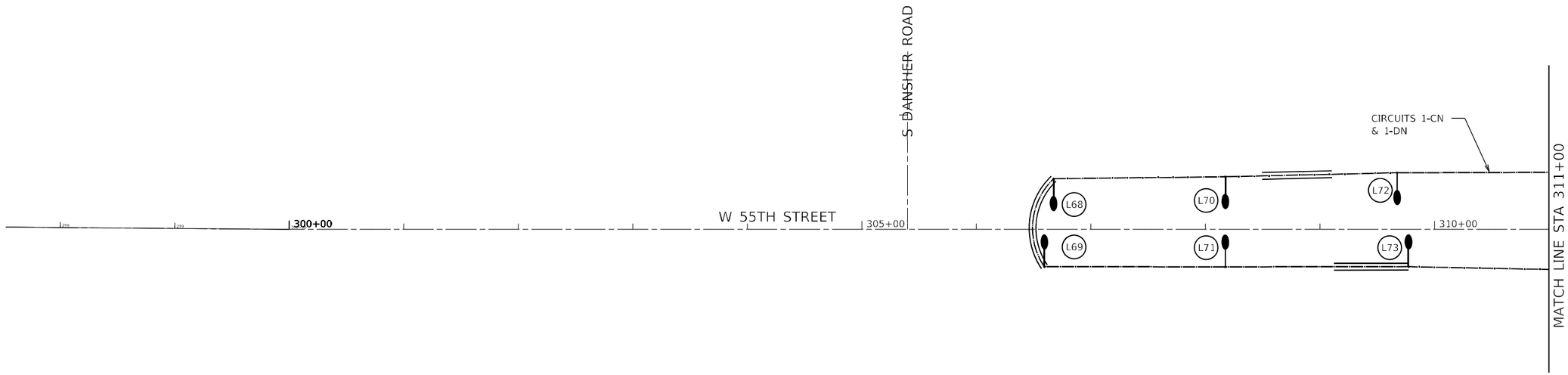


LIGHTING LEGEND

E	EXISTING LIGHTING CONTROLLER
	NEW LIGHTING CONTROLLER, 1-PHASE, 240/480V, 100A, 60A TRIP
	PROPOSED 25,000 LUMENS LED, 35' LIGHT POLE W/15' MAST ARM, BREAKAWAY COUPLING BASE, AND 24" FOUNDATION.
	PROPOSED 16,000 LUMENS LED, 35' LIGHT POLE W/15' MAST ARM, BREAKAWAY COUPLING BASE, AND 24" FOUNDATION.
	PROPOSED UNIT DUCT, 600V, 3-1/C #6, 1/C #8 GROUND OR 3-1/C #4, 1/C #6 GROUND, (XLP-TYPE USE) 1 1/4" DIA POLYETHYLENE, AS INDICATED ON CIRCUIT DIAGRAM.
	PROPOSED UNIT DUCT, 600V, 3-1/C #6, 1/C #8 GROUND OR 3-1/C #4, 1/C #6 GROUND, (XLP-TYPE USE) 1 1/4" DIA POLYETHYLENE, AS INDICATED ON CIRCUIT DIAGRAM IN 3" GALVANIZED STEEL CONDUIT/CASING.







ABNA JOB NO. 16-6239

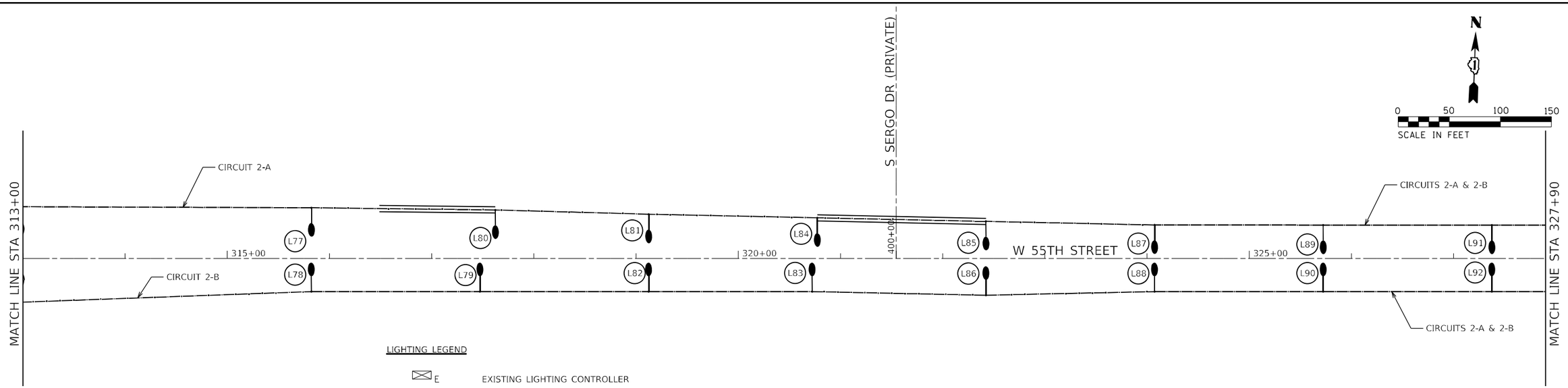
ABNA	USER NAME = mconroy	DESIGNED - F. EPPERT	REVISED -
		DRAWN - M. CONROY	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED - J. OLUBOGUN	REVISED -
	PLOT DATE = 7/30/2021	DATE - 06/04/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

JOLIET RD /55TH ST PROPOSED WIRING DIAGRAM PLAN – I
EAST AVENUE (55TH ST TO JOLIET RD)

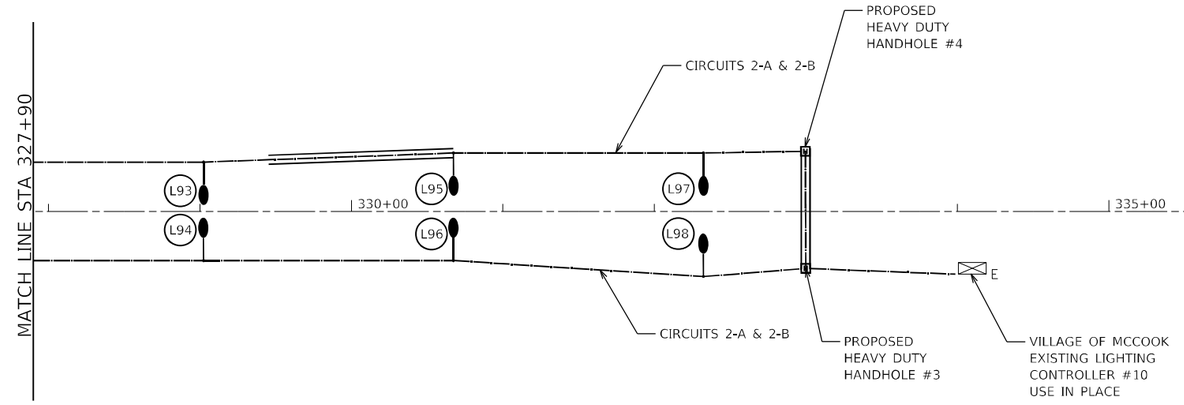
SCALE: | SHEET 3 OF 4 SHEETS | STA. | TO STA.

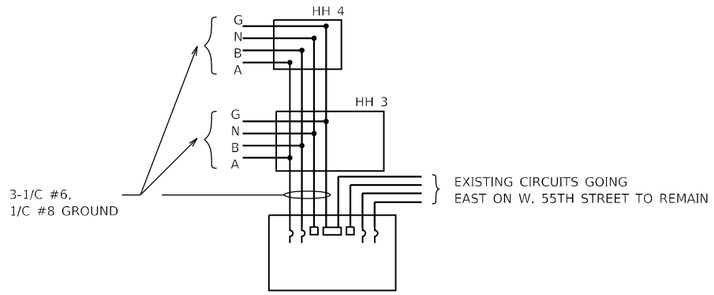
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	426	292
		CONTRACT NO. 62C25		
	ILLINOIS	FED. AID PROJECT		



LIGHTING LEGEND

E	EXISTING LIGHTING CONTROLLER
	NEW LIGHTING CONTROLLER, 1-PHASE, 240/480V, 100A, 60A TRIP
	PROPOSED 25,000 LUMENS LED, 35' LIGHT POLE W/15' MAST ARM, BREAKAWAY COUPLING BASE, AND 24" FOUNDATION.
	PROPOSED 16,000 LUMENS LED, 35' LIGHT POLE W/15' MAST ARM, BREAKAWAY COUPLING BASE, AND 24" FOUNDATION.
	PROPOSED UNIT DUCT, 600V, 3-1/C #6, 1/C #8 GROUND OR 3-1/C #4, 1/C #6 GROUND, (XLP-TYPE USE) 1 1/4" DIA POLYETHYLENE, AS INDICATED ON CIRCUIT DIAGRAM.
	PROPOSED UNIT DUCT, 600V, 3-1/C #6, 1/C #8 GROUND OR 3-1/C #4, 1/C #6 GROUND, (XLP-TYPE USE) 1 1/4" DIA POLYETHYLENE, AS INDICATED ON CIRCUIT DIAGRAM IN 3" GALVANIZED STEEL CONDUIT/CASING.





CIRCUIT DIAGRAM - CONTROLLER #10

ABNA JOB NO. 16-6239

ABNA	USER NAME = mconroy	DESIGNED - F. EPPERT	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	55TH ST PROPOSED WIRING DIAGRAM PLAN – II EAST AVENUE (55TH ST TO JOLIET RD)
		DRAWN - M. CONROY	REVISED -		
	PLOT SCALE = 100.0000 ' / in.	CHECKED - J. OLUBOGUN	REVISED -		
	PLOT DATE = 7/30/2021	DATE - 06/04/2021	REVISED -		SCALE: SHEET 4 OF 4 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	426	293
		CONTRACT NO. 62C25		
	ILLINOIS FED. AID PROJECT			

LUMINAIRE PERFORMANCE COMPARISON FOR INTERSECTIONS

Date: October 4, 2019
Designer: Frank Eppert
Project: 16-6239 IDOT East Avenue Reconstruction

		East Avenue at 55th Street	
IES Roadway Classification:	Major/Major	Illuminance	
Land Use/pedestrian conflict:	Low Pedestrian	E_{AVE}	E_{AVE}/E_{MIN}
IES Recommended Levels		1.80	3.00
Contract Specified Levels			
Manufacturer AEL		E_{AVE}	E_{AVE}/E_{MIN}
Curve No.	Distribution	1.84	2.88
ATB2_40BLEDE10_XXXXX_R3_4K_5K and ATB2_60BLEDE10_XXXXX_R3_4K_5K	Type III Medium		
Manufacturer Philips		E_{AVE}	E_{AVE}/E_{MIN}
Curve No.	Distribution	1.86	2.45
RFL-135W80LED4K-G2-R3S and RFL-160W96LED4K-G2_R3S	Type IV Short		

DESIGN PARAMETERS

Combined LLF	0.70	Mounting Height	35 FT.
Lamp Lumens	16,249 & 25,519 AEL; 16,934 & 20,321 Philips	Mast Arm	15 FT.
Lane Width W_L	11 FT.		

LUMINAIRE PERFORMANCE COMPARISON FOR INTERSECTIONS

Date: October 4, 2019
Designer: Frank Eppert
Project: 16-6239 IDOT East Avenue Reconstruction

		East Avenue at Joliet Road	
IES Roadway Classification:	Major/Major	Illuminance	
Land Use/pedestrian conflict:	Low Pedestrian	E_{AVE}	E_{AVE}/E_{MIN}
IES Recommended Levels		1.80	3.00
Contract Specified Levels			
Manufacturer AEL		E_{AVE}	E_{AVE}/E_{MIN}
Curve No.	Distribution	2.04	3.00
ATB2_40BLEDE10_XXXXX_R3_4K_5K and ATB2_60BLEDE10_XXXXX_R3_4K_5K	Type III Medium		
Manufacturer Philips		E_{AVE}	E_{AVE}/E_{MIN}
Curve No.	Distribution	1.80	3.00
RFL-135W80LED4K-G2-R3S and RFL-160W96LED4K-G2_R3S	Type IV Short		

DESIGN PARAMETERS

Combined LLF	0.70	Mounting Height	35 FT.
Lamp Lumens	16,249 & 25,519 AEL; 16,934 & 20,321 Philips	Mast Arm	15 FT.
Lane Width W_L	11 FT.		

LUMINAIRE PERFORMANCE COMPARISON FOR STRAIGHT ROAD SEGMENTS

Date: September 13, 2019
Designer: Frank Eppert
Project: 16-6239 IDOT East Avenue Reconstruction

		Joliet Road Luminance				Sidewalk Area Illuminance	
IES Roadway Classification:	Major						
Land Use/pedestrian conflict:	Medium Pedestrian	L_{AVE}	L_{AVE}/L_{MIN}	L_{MAX}/L_{MIN}	L_V/L_{AVE}	E_{AVE}	E_{AVE}/E_{MIN}
IES Recommended Levels		0.90	3.00	5.00	0.30	0.10	4.00
Contract Specified Levels							
DESIGN COMPARISONS							
Manufacturer AEL		L_{AVE}	L_{AVE}/L_{MIN}	L_{MAX}/L_{MIN}	L_V/L_{AVE}	E_{AVE}	E_{AVE}/E_{MIN}
Curve No.	Distribution	1.05	2.02	3.13	0.17		
ATB2_40BLEDE10_XXXXX_R3_4K_5K	Type III Medium						
Manufacturer Philips		L_{AVE}	L_{AVE}/L_{MIN}	L_{MAX}/L_{MIN}	L_V/L_{AVE}	E_{AVE}	E_{AVE}/E_{MIN}
Curve No.	Distribution	1.00	1.82	2.47	0.20		
RFL-135W80LED4K-G2-R3S	Type IV Short						

DESIGN PARAMETERS

Combined LLF	0.70	Spacing	165 FT.
Lamp Lumens	16,249 AEL; 16,934 Philips	Light Pole Set Back SB_{LP}	3 Ft.
Roadway Width W_R	55 FT.	Mounting Height	35 FT.
Number of Lanes	5	Mast Arm	15 FT.
Lane Width W_L	11 FT.	Sidewalk Set Back SB_{SW}	10 FT.
Layout	STRAIGHT	Sidewalk Width W_{SW}	5 FT.

LUMINAIRE PERFORMANCE COMPARISON FOR STRAIGHT ROAD SEGMENTS

Date: September 13, 2019
Designer: Frank Eppert
Project: 16-6239 IDOT East Avenue Reconstruction

		55th Street Luminance				Sidewalk Area Illuminance	
IES Roadway Classification:	Major						
Land Use/pedestrian conflict:	Medium Pedestrian	L_{AVE}	L_{AVE}/L_{MIN}	L_{MAX}/L_{MIN}	L_V/L_{AVE}	E_{AVE}	E_{AVE}/E_{MIN}
IES Recommended Levels		0.90	3.00	5.00	0.30	0.10	4.00
Contract Specified Levels							
DESIGN COMPARISONS							
Manufacturer AEL		L_{AVE}	L_{AVE}/L_{MIN}	L_{MAX}/L_{MIN}	L_V/L_{AVE}	E_{AVE}	E_{AVE}/E_{MIN}
Curve No.	Distribution	1.09	2.27	3.65	0.23		
ATB2_40BLEDE10_XXXXX_R3_4K_5K	Type III Medium						
Manufacturer Philips		L_{AVE}	L_{AVE}/L_{MIN}	L_{MAX}/L_{MIN}	L_V/L_{AVE}	E_{AVE}	E_{AVE}/E_{MIN}
Curve No.	Distribution	1.01	1.98	2.82	0.19		
RFL-135W80LED4K-G2-R3S	Type IV Short						

DESIGN PARAMETERS

Combined LLF	0.70	Spacing	160 FT.
Lamp Lumens	16,249 AEL; 16,934 Philips	Light Pole Set Back SB_{LP}	3 Ft.
Roadway Width W_R	55 FT.	Mounting Height	35 FT.
Number of Lanes	5	Mast Arm	15 FT.
Lane Width W_L	11 FT.	Sidewalk Set Back SB_{SW}	10 FT.
Layout	STRAIGHT	Sidewalk Width W_{SW}	5 FT.

LUMINAIRE PERFORMANCE COMPARISON FOR STRAIGHT ROAD SEGMENTS

Date: October 4, 2019
Designer: Frank Eppert
Project: 16-6239 IDOT East Avenue Reconstruction

		East Avenue Luminance				Sidewalk Area Illuminance	
IES Roadway Classification:	Major						
Land Use/pedestrian conflict:	Medium Pedestrian	L_{AVE}	L_{AVE}/L_{MIN}	L_{MAX}/L_{MIN}	L_V/L_{AVE}	E_{AVE}	E_{AVE}/E_{MIN}
IES Recommended Levels		0.90	3.00	5.00	0.30	0.10	4.00
Contract Specified Levels							
DESIGN COMPARISONS							
Manufacturer AEL		L_{AVE}	L_{AVE}/L_{MIN}	L_{MAX}/L_{MIN}	L_V/L_{AVE}	E_{AVE}	E_{AVE}/E_{MIN}
Curve No.	Distribution	1.05	2.02	3.38	0.27		
ATB2_40BLEDE10_XXXXX_R3_4K_5K	Type III Medium						
Manufacturer Philips		L_{AVE}	L_{AVE}/L_{MIN}	L_{MAX}/L_{MIN}	L_V/L_{AVE}	E_{AVE}	E_{AVE}/E_{MIN}
Curve No.	Distribution	0.95	1.73	2.69	0.20		
RFL-135W80LED4K-G2-R3S	Type IV Short						

DESIGN PARAMETERS

Combined LLF	0.70	Spacing	165 FT.
Lamp Lumens	16,249 AEL; 16,934 Philips	Light Pole Set Back SB_{LP}	3 Ft.
Roadway Width W_R	55 FT.	Mounting Height	35 FT.
Number of Lanes	5	Mast Arm	15 FT.
Lane Width W_L	11 FT.	Sidewalk Set Back SB_{SW}	10 FT.
Layout	STRAIGHT	Sidewalk Width W_{SW}	5 FT.

ABNA JOB NO. 16-6239

ABNA

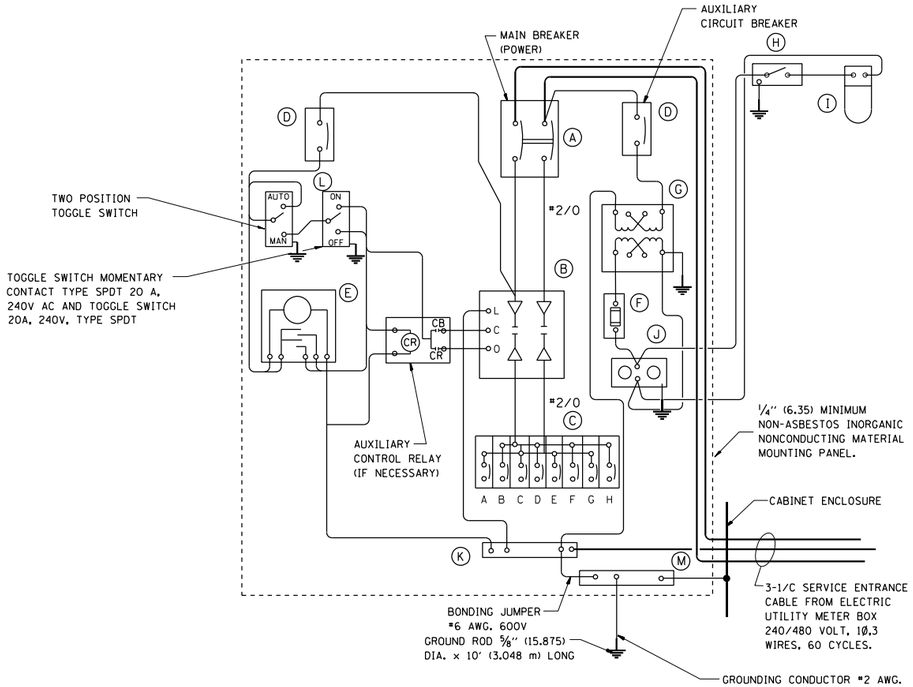
USER NAME = mconroy	DESIGNED - F. EPPERT	REVISED -	
	DRAWN - M. CONROY	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - J. OLUBOGUN	REVISED -	
PLOT DATE = 7/30/2021	DATE - 06/04/2021	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

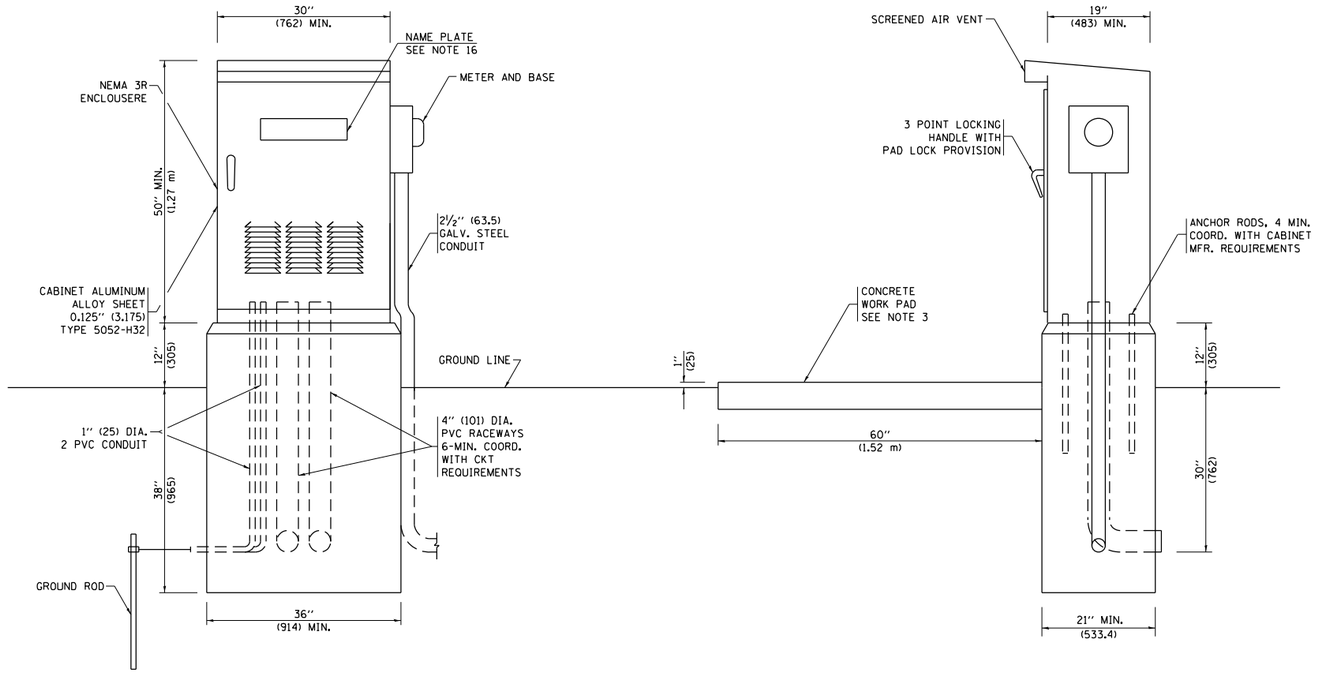
LUMINAIRE PERFORMANCE TABLES
EAST AVENUE (55TH ST TO JOLIET RD)

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	426	294
		CONTRACT NO. 62C25		
	ILLINOIS FED. AID PROJECT			



PANEL WIRING DIAGRAM



PANEL EQUIPMENT

BILL OF MATERIAL

ITEM	QUANTITY	DESCRIPTION
A	1	MAIN CIRCUIT BREAKER, 2 POLE, 600 VOLT 100 AMP. FRAME, 60 AMP. NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA-22000 AMP. AT 480 VOLT.
B	1	REMOTE CONTROL SWITCH, ELECTRICALLY OPERATED, MECHANICALLY HELD, 2 POLE, SINGLE THROW, 100 AMP., 600 VOLTS CONTROL CIRCUIT 240 VOLT.
C	8	CIRCUIT BREAKERS, 1 POLE, 100AMP. FRAME , 50 AMP. NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA-10,000 AMP. AT 240 V.
D	2	CONTROL CIRCUIT-CIRCUIT BREAKER. 1 POLE, 240 V., 100 AMP. FRAME, 15 AMP. NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA-5000 AMP. AT 240 V.
E	1	ASTRONOMIC MICROPROCESSOR-BASED 2-CHANNEL CONTROLLER [TIME SWITCH].
F	1	20 A., 120 V. FUSE.
G	1	1.5 KVA, SINGLE PHASE, ENCAPSULATED TRANSFORMER 240 X 480 / 120 X 240 VOLT, 60 Hz.
H	1	SPST 20A SWITCH ON DOOR, TO TURN LIGHT ON WHEN DOOR IS OPEN,
I	1	INCANDESCENT LIGHTING FIXTURE ENCLOSED AND GASKETED WITH 60 WATT, 120 V. LAMP.
J	1	20 A., 120 V., DUPLEX RECEPTACLE, GFCI.
K	1	COPPER GROUND BUS 1/4" (6.35) X 1" (25.4) X 12" (304.8 mm) LONG MOUNTED ON PANEL WITH LUGS AND 4 SPARE LUGS
L	1	TOGGLE SWITCHES MOUNTED IN 4" (101.6) X 4" (101.6 mm) BOX.
M	1	COPPER GROUND BUS 1/4" (6.35) X 1" (25.4) X 12" (304.8 mm) LONG MOUNTED ON PANEL WITH LUGS AND SPARE LUGS

NOTES:

1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
2. FOUNDATION SIZE SHALL BE COORDINATED WITH CABINET SIZE AND MFR.
3. IN FRONT OF CONTROL CABINET DOOR, REMOVE VEGETATION AND 2" (50.8 mm) TOP SOIL, LEVEL THE AREA AND ON TOP, PLACE LENGTH WISE PARALLEL TO CONTROL CABINET, A CONCRETE PAD 36" (914.4 mm) x 60" (18.288 m) x 4" (101 mm) MIN. SIZE. THE COST OF LABOR AND MATERIALS ARE INCLUDED IN THE COST OF THE CONTROLLER.
4. DOOR SHALL BE CONSTRUCTED FROM SAME TYPE OF MATERIAL AND THICKNESS AS CABINET.
5. DOOR SHALL BE EQUIPPED WITH THREE POINT LATCHING MECHANISM WITH NYLON ROLLERS AT TOP THE BOTTOM.
6. DOOR HINGE SHALL BE A HEAVY GAUGE CONTINUOUS HINGE WITH A 1/4" (6.35 mm) DIA. STAINLESS STEEL HINGE PIN.
7. ALL EXTERNAL HARDWARE SHALL BE STAINLESS STEEL.
8. CONTROL WIRING TO BE #12 AWG. 600V. TYPE "SIS" GRAY SWITCH BOARD WIRE, STRANDED COPPER.
9. METER BOX SHALL BE MOUNTED ON THE SIDE OF CONTROL CABINET, NEAR TO THE SERVICE POLE.
10. CABINETS SHALL BE PRIMED AND PAINTED AS SPECIFIED.
11. THE HEADS OF CONNECTORS SCREWS SHALL BE PAINTED WHITE FOR NEUTRAL BAR CONNECTION AND GREEN FOR GROUND BAR CONNECTORS.
12. ALL WIRING WITHIN THE CABINET SHALL BE COLOR CODED AS INDICATED.
    R = RED BL = BLUE W = WHITE
    B = BLACK Y = YELLOW G = GREEN
13. PROVIDE SEALING GROMMETS FOR ALL OPEN WIRING EXTENDED FROM DEVICES IN BOXES OR CABINETS WITHIN THE CONTROL CABINET.
14. ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.
15. THE CONTROLLER SHALL BE CONSTRUCTED TO U.L. STD. 508 AND BEAR THE U.L. LABEL "ENCLOSED INDUSTRIAL CONTROL PANEL".
16. 12" (304.8) X 16" (406.4 mm) STAINLESS STEEL EXTERIOR NAMEPLATE SHALL BE ENGRAVED TO "VILLAGE OF McCOOK" UNLESS OTHERWISE SPECIFIED.

MODIFIED BE-215

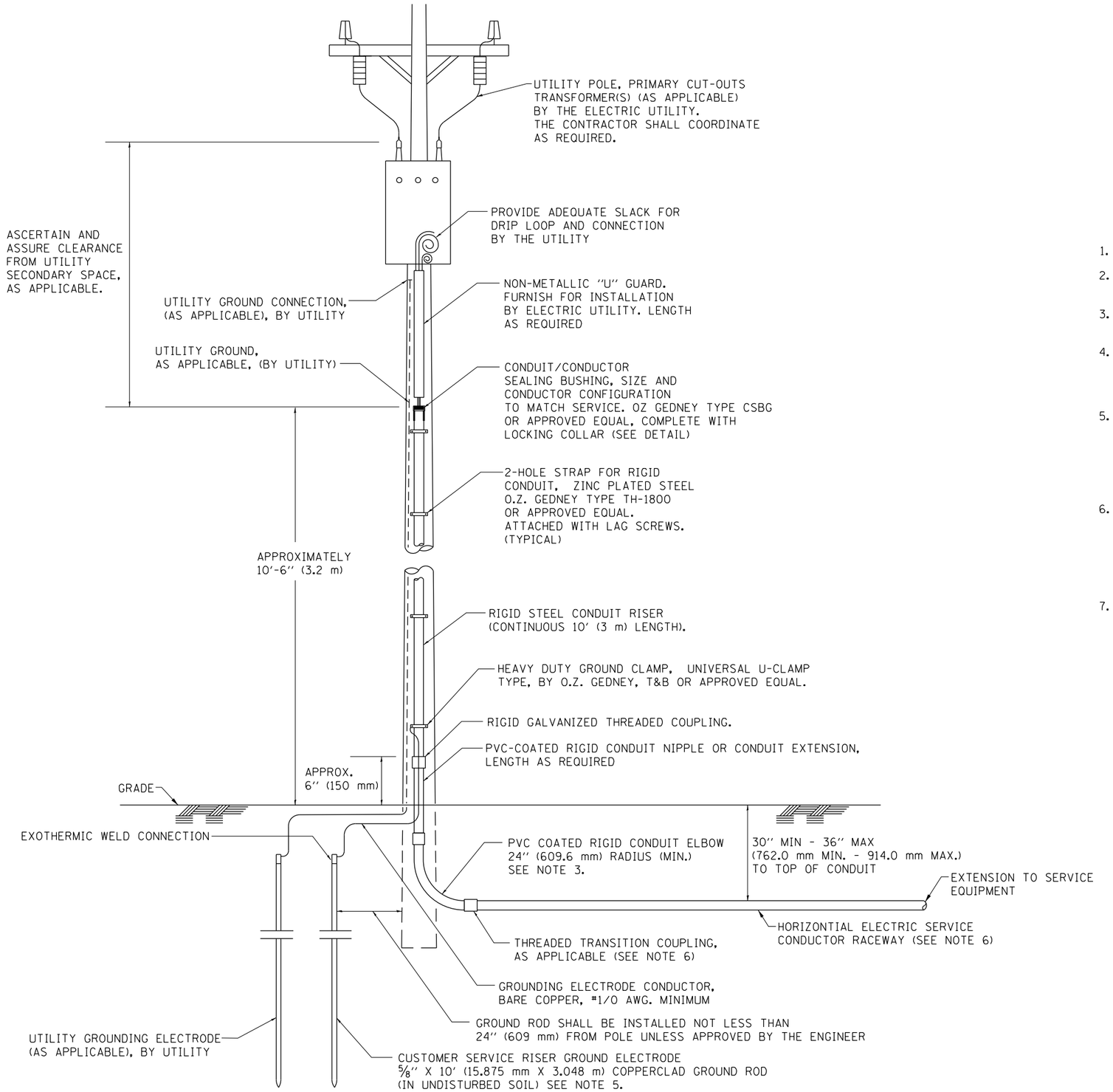
ABNA	USER NAME = mconroy	DESIGNED -	REVISED - 08-20-04
		DRAWN -	REVISED -
	PLOT SCALE = 99.9998 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 7/30/2021	DATE	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHTING CONTROLLER
SINGLE DOOR

SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	426	295
	BE-215	CONTRACT NO. 62C25		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

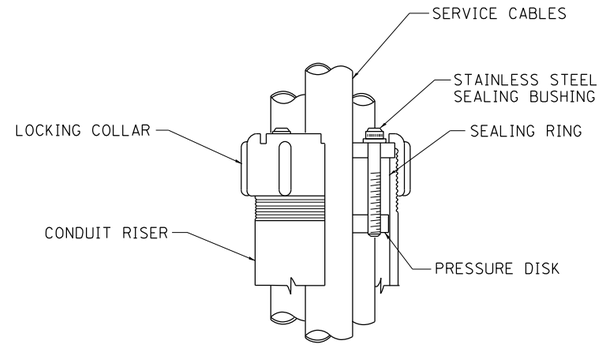


APPLICATION

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

NOTES

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



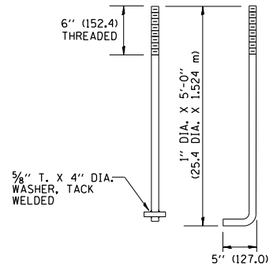
SEALING BUSHING DETAIL

ABNA	USER NAME = mconroy	DESIGNED -	REVISED - 03-03-06	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ELECTRIC SERVICE INSTALLATION AERIAL, REMOTE DISCONNECT
		DRAWN -	REVISED -		
	PLOT SCALE = 100.0000 ' / in.	CHECKED - MEA	REVISED -		SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.
	PLOT DATE = 7/30/2021	DATE -	REVISED -		

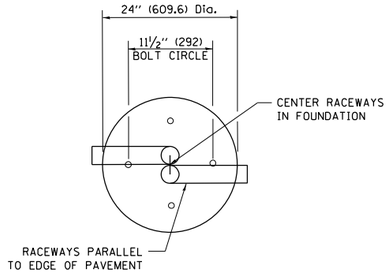
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	426	296
	BE-220	CONTRACT NO. 62C25		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

LIGHT POLE FOUNDATION DEPTH TABLE
30 FT. (9.144 m) TO 35 FT. (10.668 m) MOUNTING HEIGHT

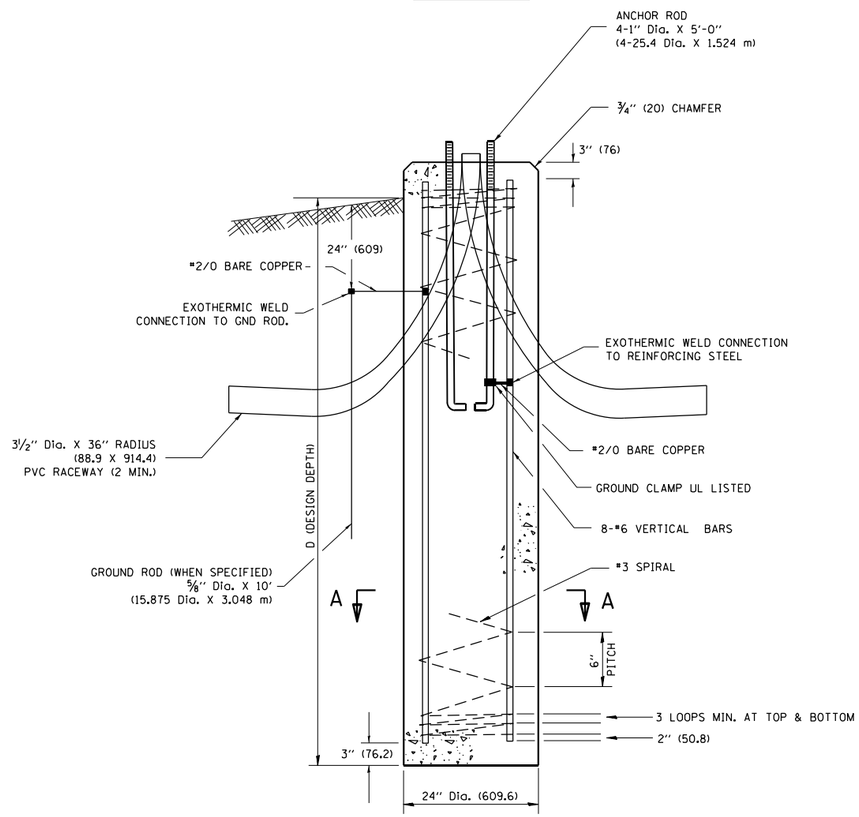
SOIL CONDITIONS	DESIGN DEPTH "D" OF FOUNDATION	
	SINGLE ARM POLE	TWIN ARM POLE
SOFT CLAY Qu = 0.375 TON/SQ. FT.	11'-0" (3.35 m)	12'-8" (3.85 m)
MEDIUM CLAY Qu = 0.75 TON/SQ.FT	9'-0" (2.74 m)	14'-10" (4.52 m)
STIFF CLAY Qu = 1.50 TON/SQ. FT.	7'-6" (2.29 m)	8'-7" (2.61 m)
LOOSE SAND Ø = 34°	9'-6" (2.90 m)	10'-7" (3.22 m)
MEDIUM SAND Ø = 37.5°	9'-0" (2.74 m)	9'-10" (2.99 m)
DENSE SAND Ø = 40°	8'-3" (2.51 m)	9'-7" (2.91 m)



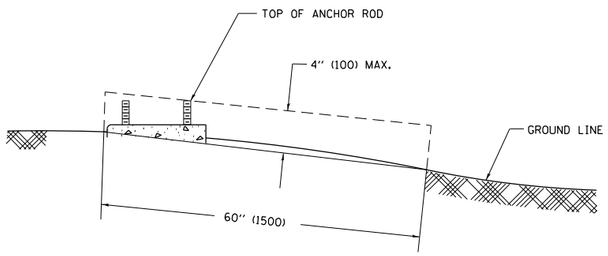
ANCHOR BOLT DETAIL



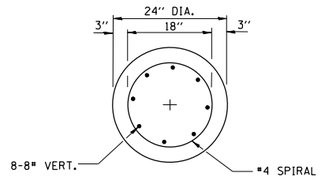
TOP VIEW



FOUNDATION DETAIL



FOUNDATION EXTENSION DETAIL



SECTION A-A

NOTES

1. 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 PROTRUDE MORE THAN 4 IN. (100 mm) 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 ¾-IN. (20 mm).
6. THE CONCRETE SHALL BE CLASS SI. 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 AASHTO M 232, 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 2¾" (69.9 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 ERECTED.
14. THE RACEWAYS SHALL PROJECT 1" (25.4 mm) ABOVE THE TOP OF THE FOUNDATION.

ABNA

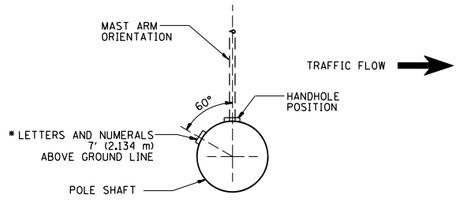
USER NAME = mconroy	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 99.9998 '/ in.	CHECKED -	REVISED -
PLOT DATE = 7/30/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

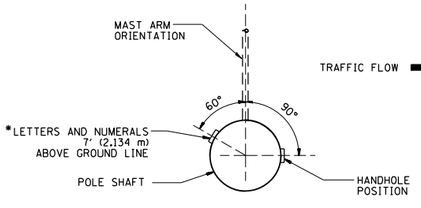
LIGHT POLE FOUNDATION
30' (9.144 m) TO 35' (10.668 m) M.H. 11 1/2" (292 mm) BOLT CIRCLE

SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

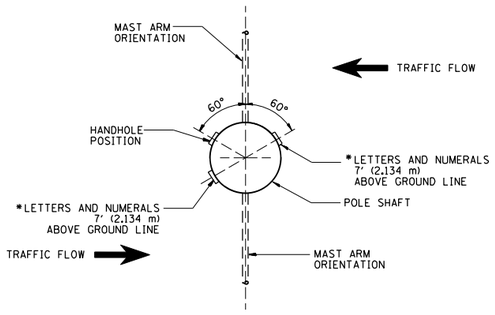
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			426	297
	BE-300		CONTRACT NO. 62C25	
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



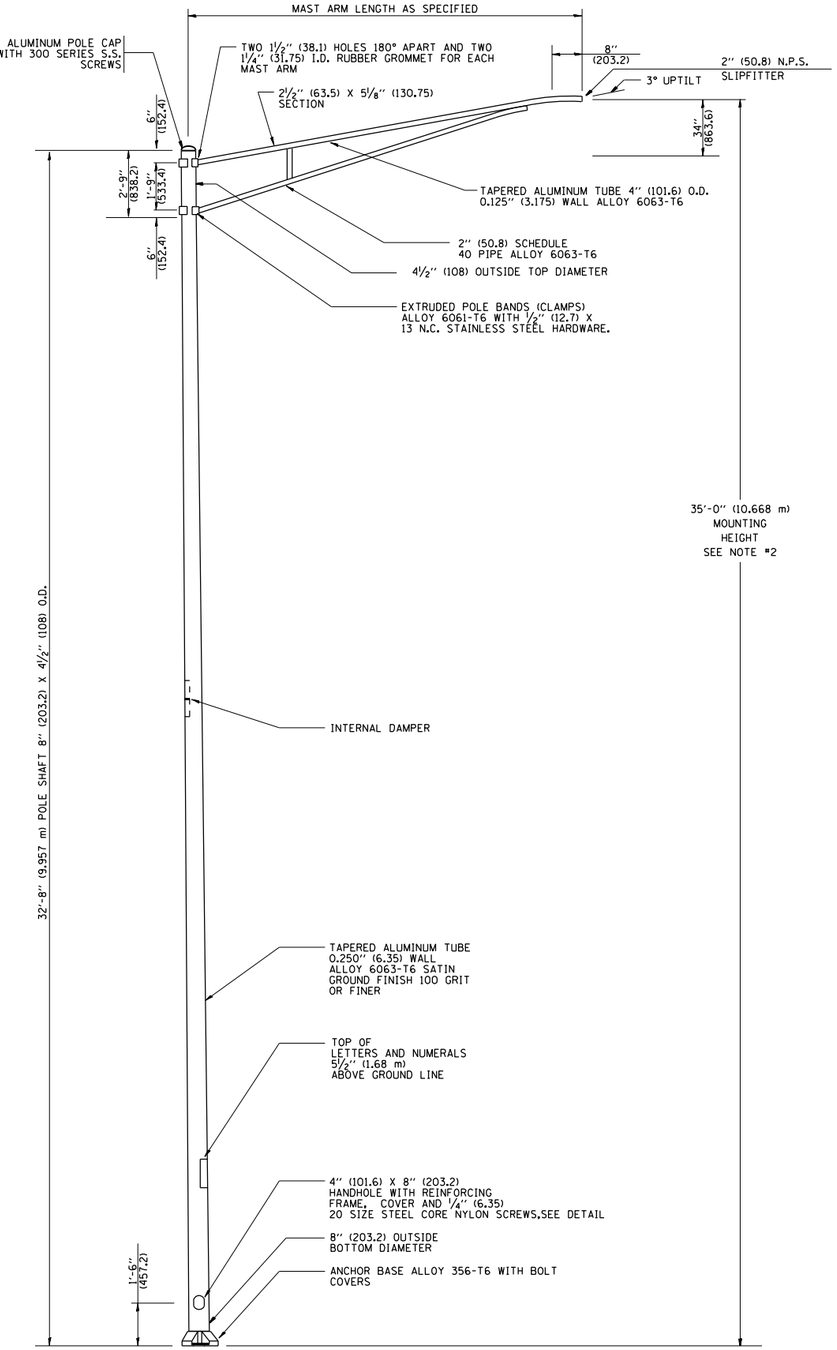
POSITION OF HANDHOLE AND POLE NUMBER FOR SINGLE MAST ARM POLES MOUNTED ON BRIDGE PARAPET OR BARRIER WALL

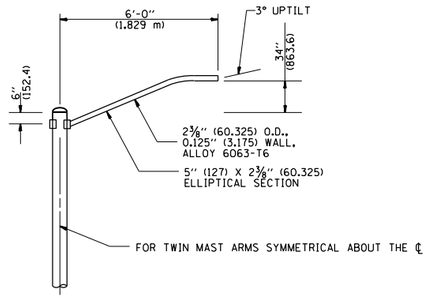


POSITION OF HANDHOLE AND POLE NUMBER FOR SINGLE MAST ARM POLES



POSITION OF HANDHOLE AND POLE NUMBER FOR TWIN MAST ARM POLES



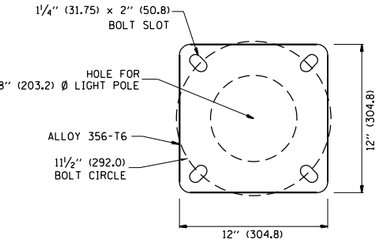


6' (1.8 m) SINGLE MEMBER MAST ARM

(N.T.S.)

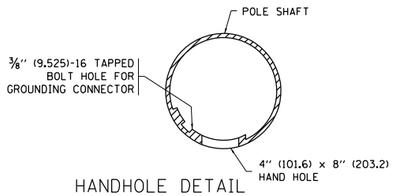
NOTES:

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. THE LIGHT POLE WILL MEET AASHTO DESIGN CRITERIA AS SPECIFIED.
4. THE INSTALLING CONTRACTOR WILL PROVIDE A UL LISTED GROUNDING CONNECTOR. BURNDY K2C23, T&B SP4DL OR APPROVED EQUAL.
5. LIGHT POLES WILL NOT BE INSTALLED WITHOUT MAST ARMS AND LUMINAIRES.
6. LIGHT POLES WILL BE SET PLUMB ON THE FOUNDATION WITHOUT THE USE OF LEVELING NUTS, WASHERS OR SHIMS.
7. LIGHTING UNIT IDENTIFICATION NUMBERS SHALL BE INSTALLED BEFORE THE LIGHTING UNIT IS ENERGIZED.



LIGHT POLE BASE PLATE DETAIL

11½" (292.0) BOLT CIRCLE



HANDHOLE DETAIL

(N.T.S.)

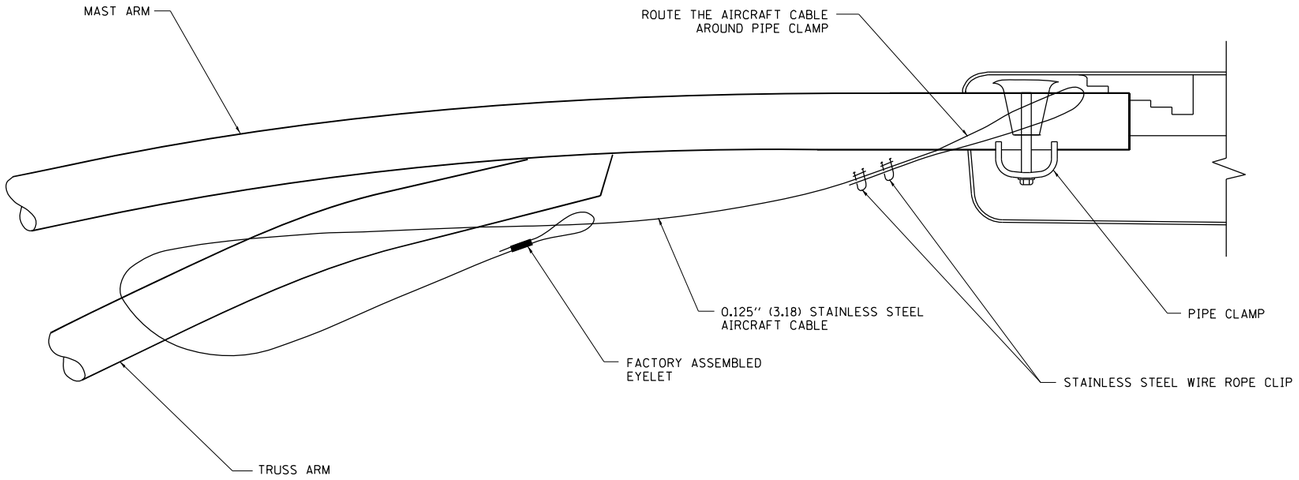
USER NAME = mconroy	DESIGNED -	REVISED - R. TOMSONS 09-06-00	
	DRAWN -	REVISED - R. TOMSONS 09-02-03	
PLOT SCALE = 100.000 ' / in.	CHECKED -	REVISED - R. TOMSONS 01-18-13	
PLOT DATE = 7/30/2021	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALUMINUM LIGHT POLE
35'-0" (10.668 m) MOUNTING HEIGHT

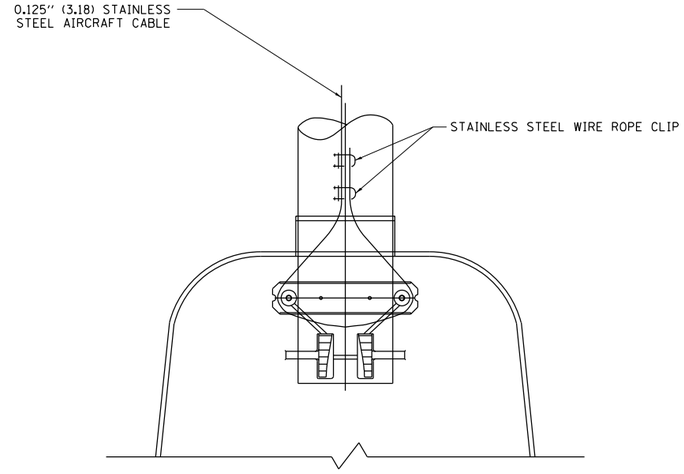
SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	426	298
	BE-402	CONTRACT NO. 62C25		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



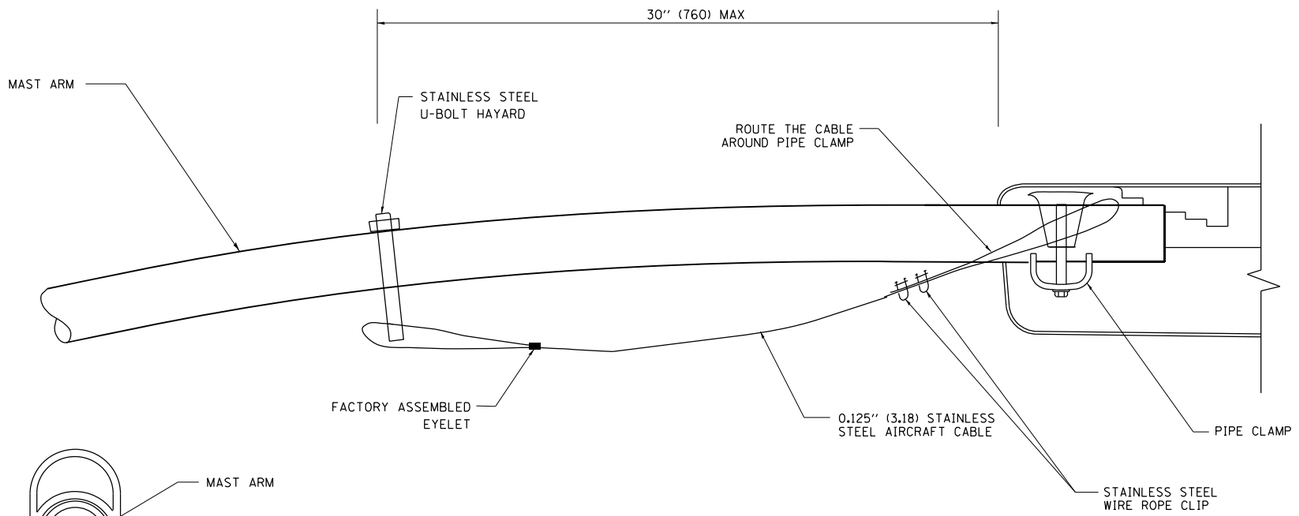
SIDE VIEW (TRUSS ARM)

N.T.S.



BOTTOM VIEW

N.T.S.



SIDE VIEW (SINGLE MEMBER OR DAVIT ARM)

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.

ABNA

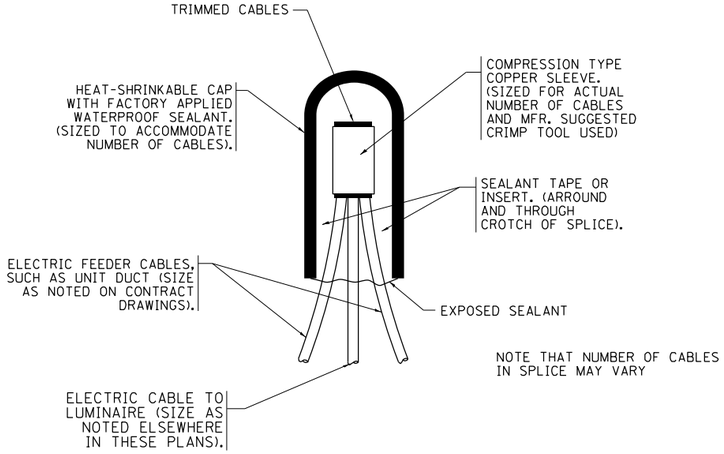
USER NAME = mconroy	DESIGNED -	REVISED - 08-08-03	
	DRAWN -	REVISED -	
PLOT SCALE = 100.000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 7/30/2021	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LUMINAIRE SAFETY CABLE ASSEMBLY

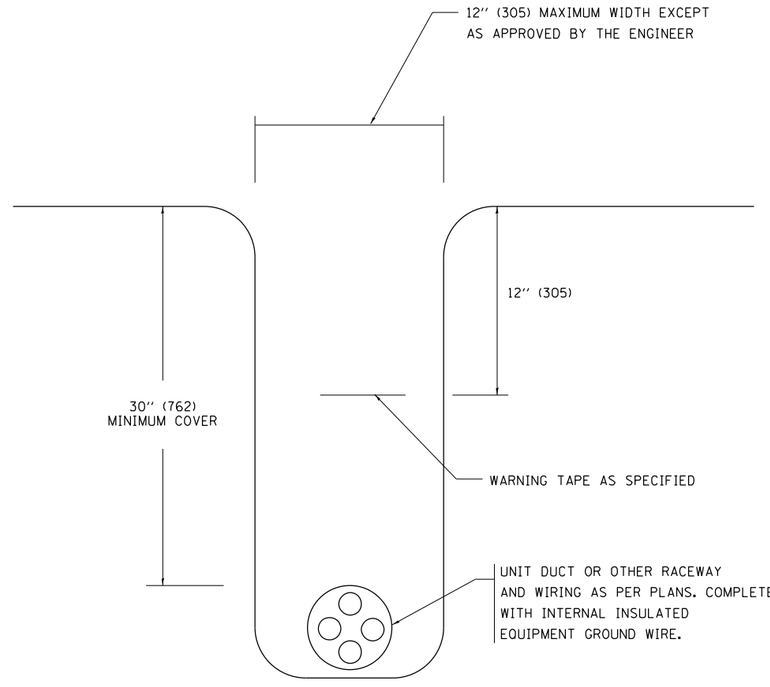
SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	426	299
	BE-701	CONTRACT NO. 62C255		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



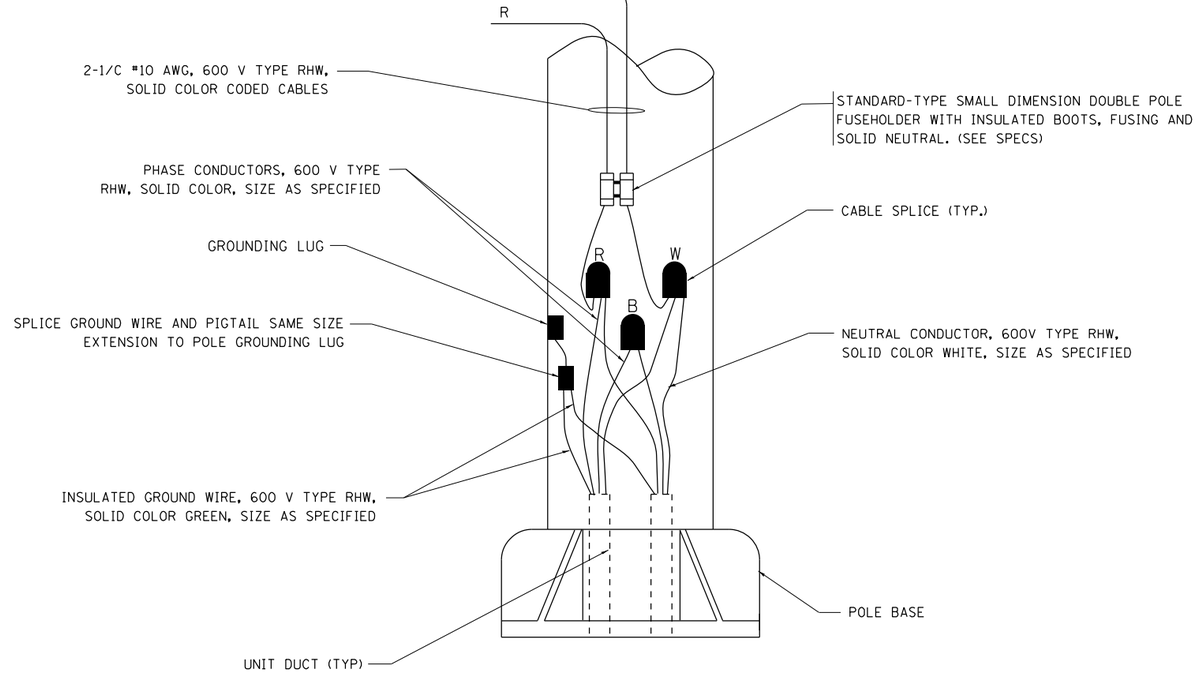
TYPICAL SPLICE DETAIL

N.T.S.



TYPICAL WIRING IN TRENCH DETAIL

N.T.S.



POLE WIRING DETAIL

N.T.S.

USER NAME = mconroy	DESIGNED -	REVISED - 08-08-03	
	DRAWN -	REVISED -	
PLOT SCALE = 100.000 '/ in.	CHECKED -	REVISED -	
PLOT DATE = 7/30/2021	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MISC. ELECTRICAL DETAILS
SHEET A

SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2719	0102N&T	COOK	426	300
	BE-702	CONTRACT NO. 62C25		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		