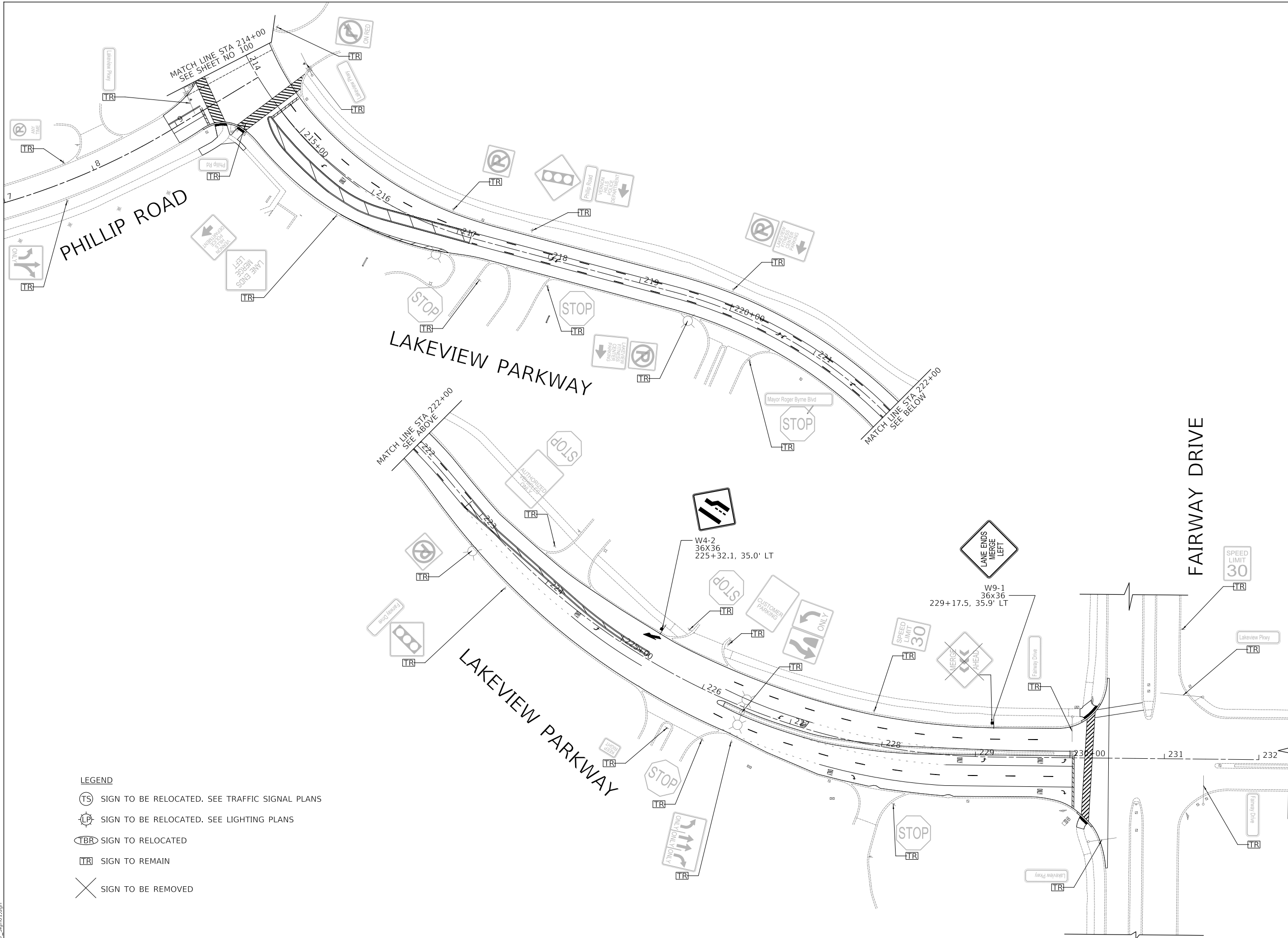


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	PLOTTED	BY
NOTE BOOK NO.	GRADES	
	CHECKED	
	STRUCTURE	
	NOTATIONS	



LEGEND

- SIGN TO BE RELOCATED. SEE TRAFFIC SIGNAL PLANS
- SIGN TO BE RELOCATED. SEE LIGHTING PLANS
- SIGN TO BE RELOCATED
- SIGN TO REMAIN
- SIGN TO BE REMOVED

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FILE NAME: ...3447_Sign01.dgn



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DESIGNED	-	JRR	REVISED	-
DRAWN	-	JRR	REVISED	-
CHECKED	-	KRK	REVISED	-
DATE	-	11/02/2022	REVISED	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCALE



**LAKEVIEW PARKWAY IMPROVEMENT
SIGNING**

SHEET 3 OF 3 SHEETS STA 214+00 TO STA 231+00

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
2419	98-00026-02-WR	LAKE	210	101
CONTRACT NO 61115				
		ILLINOIS	FED AID PROJECT	

TRAFFIC SIGNAL LEGEND

(NOT TO SCALE)

ITEM	EXISTING	PROPOSED	ITEM	EXISTING	PROPOSED	ITEM	EXISTING	PROPOSED
CONTROLLER CABINET			HANDHOLE -SQUARE			SIGNAL HEAD		
COMMUNICATION CABINET			HANDHOLE -ROUND			- (P) PROGRAMMABLE SIGNAL HEAD		
MASTER CONTROLLER			HEAVY DUTY HANDHOLE -SQUARE			SIGNAL HEAD WITH BACKPLATE		
MASTER MASTER CONTROLLER			HEAVY DUTY HANDHOLE -ROUND			- (P) PROGRAMMABLE SIGNAL HEAD		
UNINTERRUPTABLE POWER SUPPLY			DOUBLE HANDHOLE			- (RB) RETROREFLECTIVE BACKPLATE		
SERVICE INSTALLATION -(P) POLE MOUNTED			JUNCTION BOX			PEDESTRIAN SIGNAL HEAD AT RAILROAD INTERSECTIONS		
SERVICE INSTALLATION -(G) GROUND MOUNTED			RAILROAD CANTILEVER MAST ARM			PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN TIMER		
-(GM) GROUND MOUNTED METERED			RAILROAD FLASHING SIGNAL			ILLUMINATED SIGN "NO LEFT TURN"/"NO RIGHT TURN"		
TELEPHONE CONNECTION			RAILROAD CROSSING GATE			NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE. ALL DETECTOR LOOP CABLE TO BE SHIELDED		
STEEL MAST ARM ASSEMBLY AND POLE			RAILROAD CROSSBUCK			GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)		
ALUMINUM MAST ARM ASSEMBLY AND POLE			RAILROAD CONTROLLER CABINET			ELECTRIC CABLE IN CONDUIT, TRACER NO. 14 1/C		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE			UNDERGROUND CONDUIT (UC), GALVANIZED STEEL			COAXIAL CABLE		
SIGNAL POST -(BM) BARREL MOUNTED - TEMPORARY			TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE			VENDOR CABLE		
WOOD POLE			SYSTEM ITEM	S	SP	COPPER INTERCONNECT CABLE, NO. 18, 3 PAIR TWISTED, SHIELDED		
GUY WIRE			INTERSECTION ITEM	I	IP	FIBER OPTIC CABLE -NO. 62.5/125, MM12F		
SIGNAL HEAD			REMOVE ITEM		R	-NO. 62.5/125, MM12F SM12F		
SIGNAL HEAD WITH BACKPLATE			RELOCATE ITEM		RL	-NO. 62.5/125, MM12F SM24F		
SIGNAL HEAD OPTICALLY PROGRAMMED			ABANDON ITEM		A			
FLASHER INSTALLATION -(FS) SOLAR POWERED			CONTROLLER CABINET AND FOUNDATION TO BE REMOVED		RCF			
PEDESTRIAN SIGNAL HEAD			MAST ARM POLE AND FOUNDATION TO BE REMOVED		RMF			
PEDESTRIAN PUSH BUTTON -(APS) ACCESSIBLE PEDESTRIAN PUSH BUTTON			SIGNAL POST AND FOUNDATION TO BE REMOVED		RPF			
RADAR DETECTION SENSOR			DETECTOR LOOP, TYPE I					
VIDEO DETECTION CAMERA			PREFORMED DETECTOR LOOP					
RADAR/VIDEO DETECTION ZONE			SAMPLING (SYSTEM) DETECTOR					
PAN, TILT, ZOOM (PTZ) CAMERA			INTERSECTION AND SAMPLING (SYSTEM) DETECTOR					
EMERGENCY VEHICLE LIGHT DETECTOR			QUEUE AND SAMPLING (SYSTEM) DETECTOR					
CONFIRMATION BEACON			WIRELESS DETECTOR SENSOR					
WIRELESS INTERCONNECT			WIRELESS ACCESS POINT					
WIRELESS INTERCONNECT RADIO REPEATER								

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PLOT DATE = 3/4/2019	DATE - 9/29/2016	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

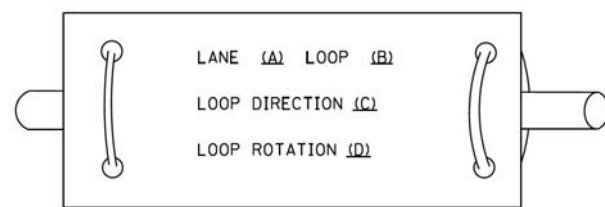
DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS			
SCALE: NONE	SHEET 1	OF 7 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	98-00026-02-WR	LAKE	210	102
TS-05		CONTRACT NO.		
ILLINOIS FED. AID PROJECT				

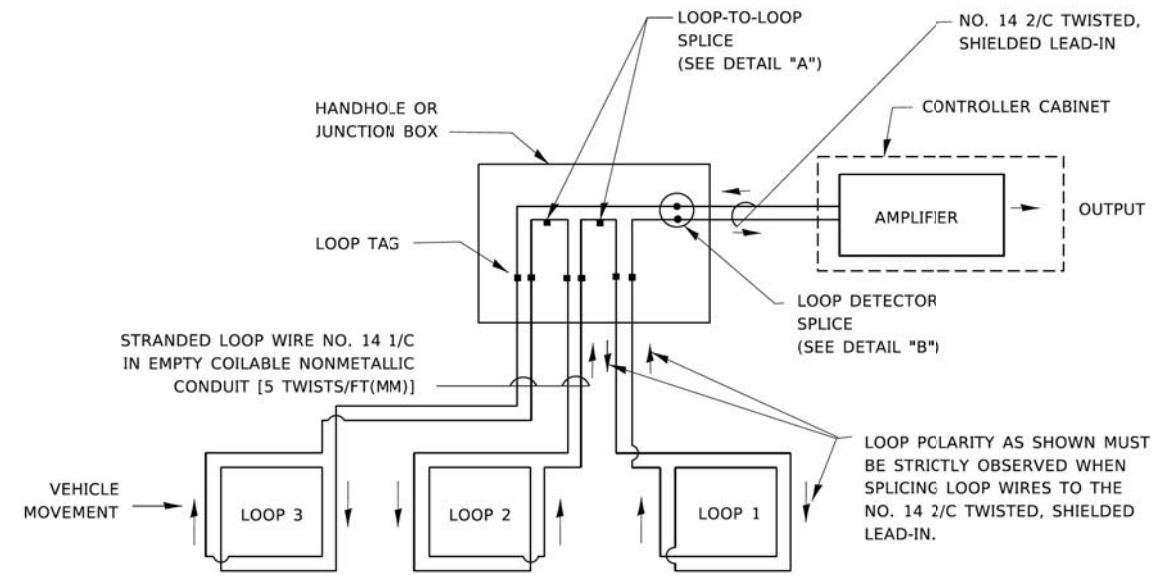
LOOP DETECTOR NOTES

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 DIVESHOLES 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

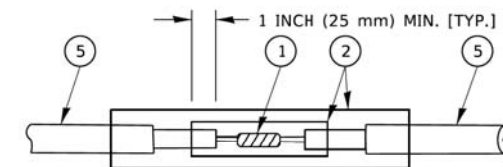


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

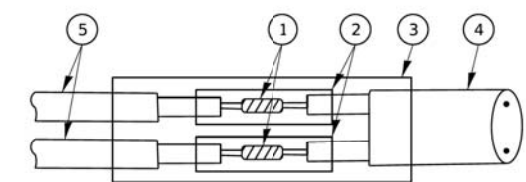


DETECTOR LOOP WIRING SCHEMATIC

- 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.

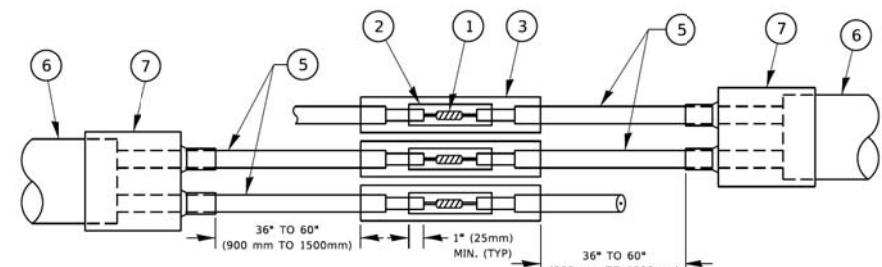


DETAIL "A"
LOOP-TO-LOOP SPLICE

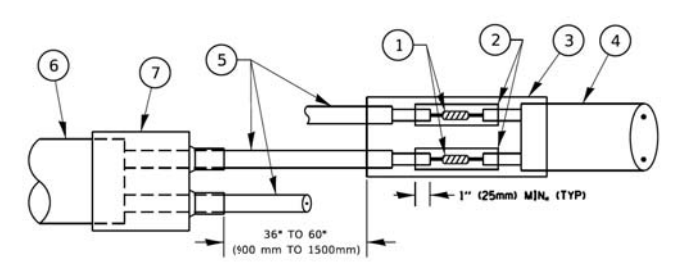


DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP



DETAIL "A"
LOOP-TO-LOOP SPLICE



DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

PREFORMED LOOP

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 LENGTH 6" (150 mm), UNDERWATER GRADE.
- 4 NO. 14 2/C TWISTED, SHIELDED CABLE.
- 5 LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE. PREFORMED LOOP
- 6 XL POLYOLEFIN 2 CONDUCTOR
- 7 BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

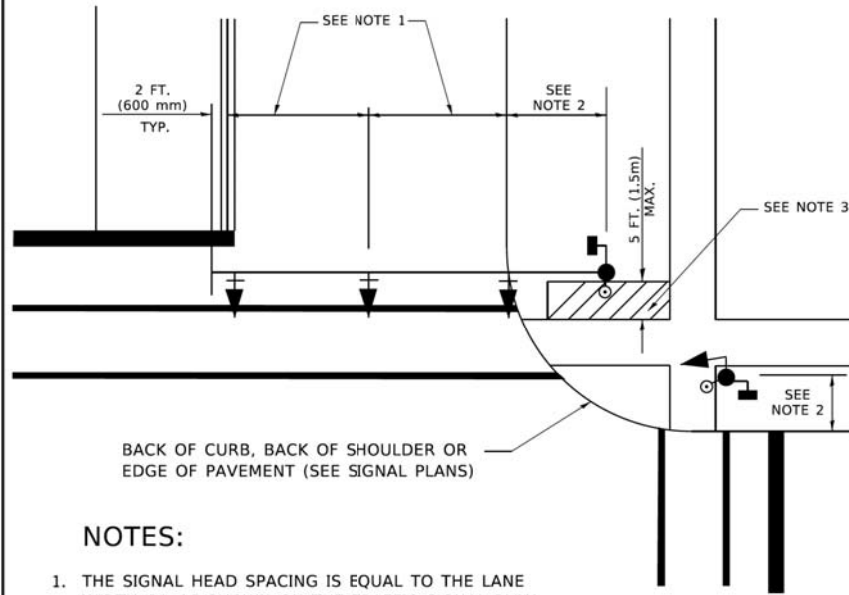
DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	98-00026-02-WR	LAKE	210	103
TS-05			CONTRACT NO.	
ILLINOIS FED. AID PROJECT				

TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

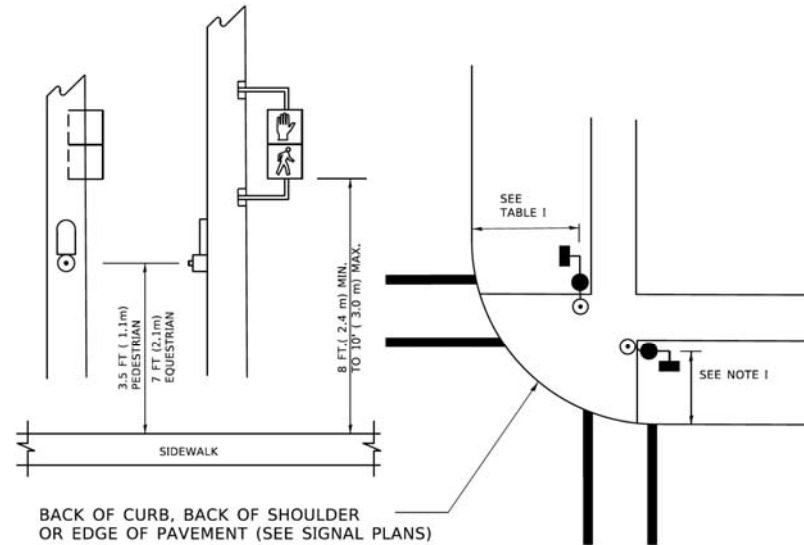
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



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 OR 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."

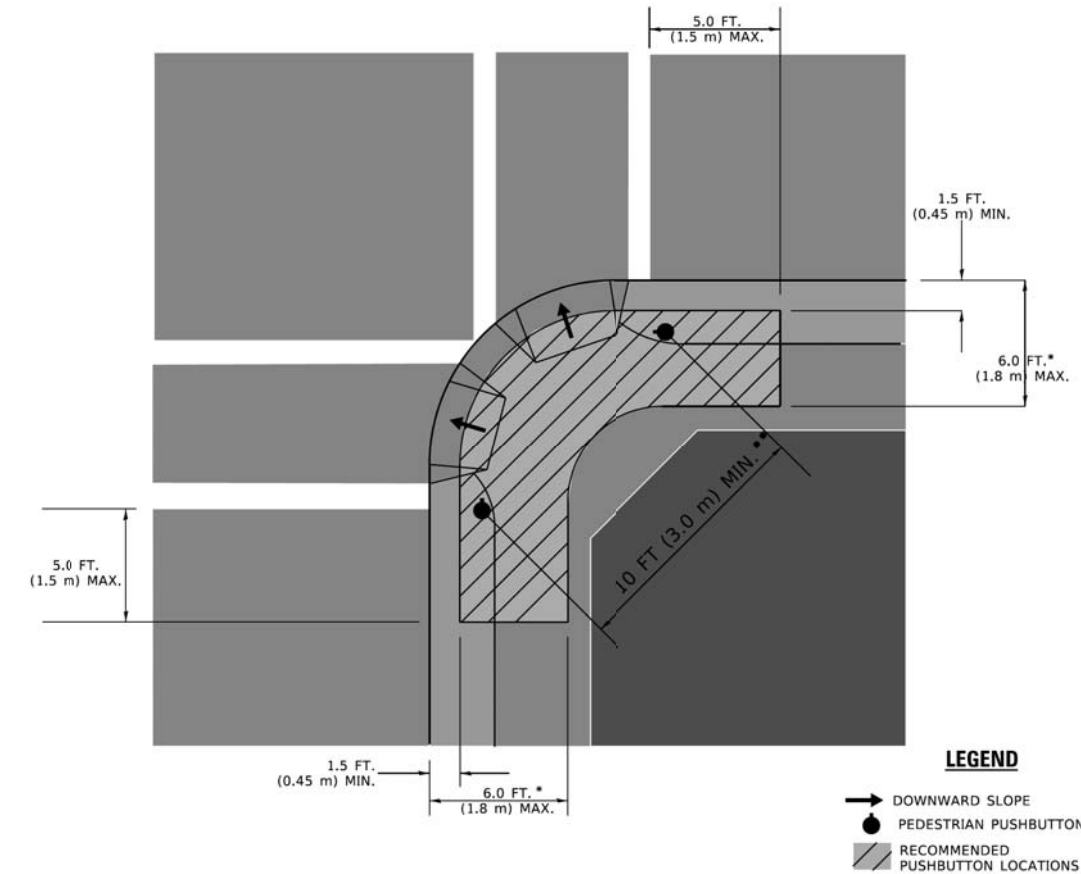
PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST



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

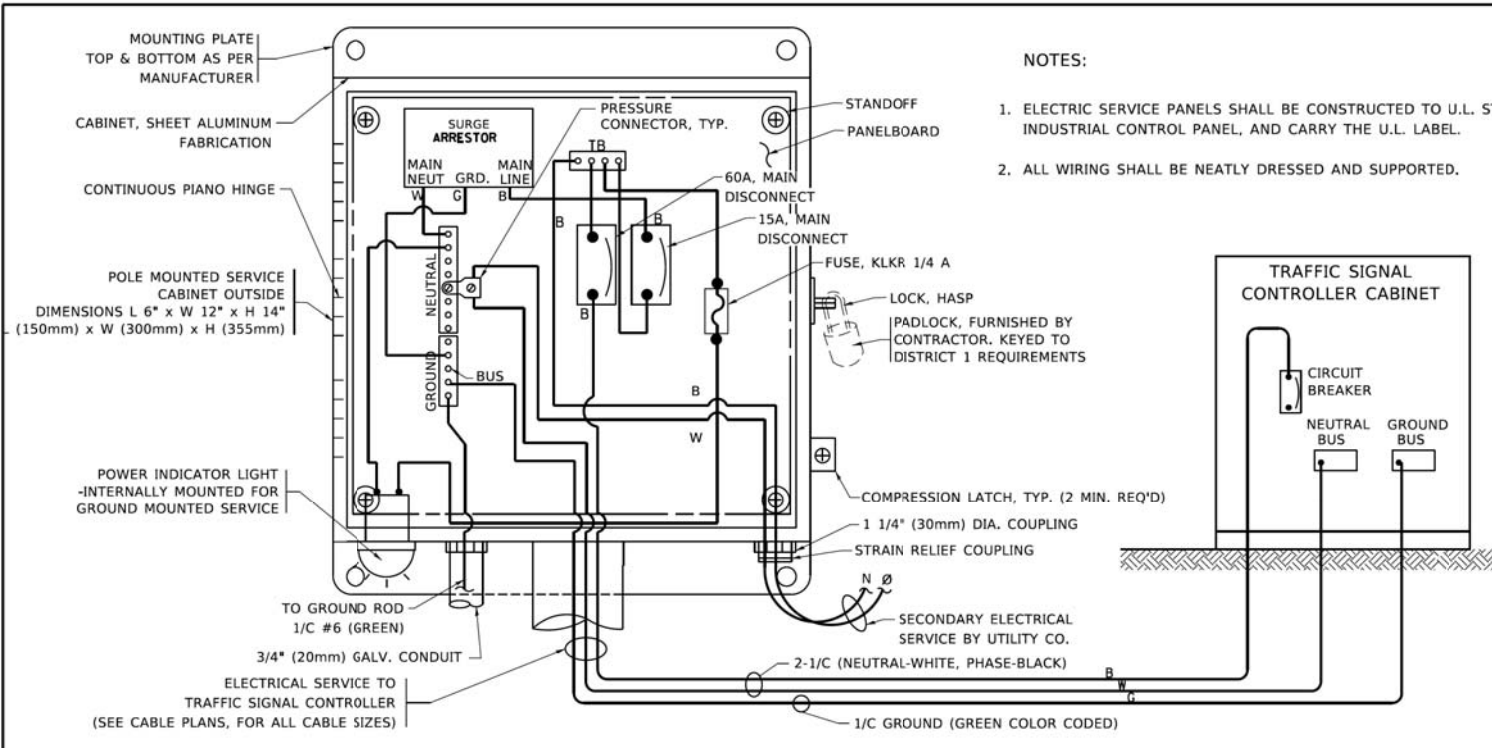
TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 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:

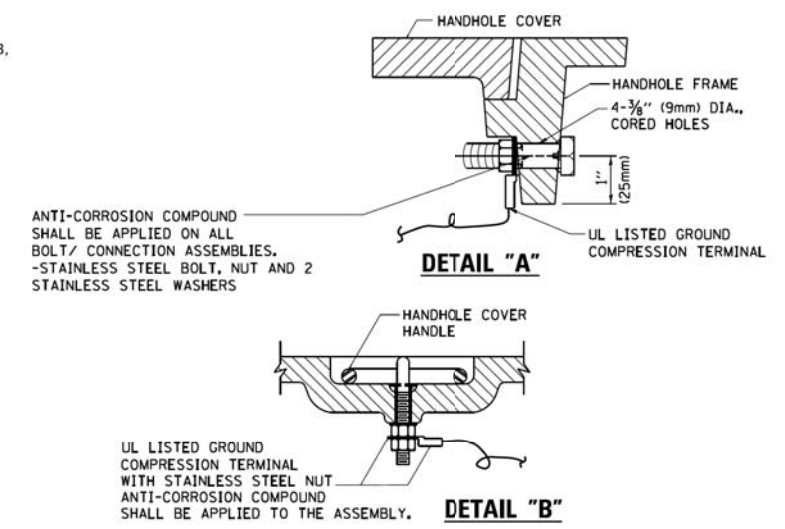
1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
3. MINIMUM DISTANCE FROM THE EDGE OF PAVEMENT TO THE 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.

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DRAWN -	REVISED -	REVISED -		SCALE: NONE	SHEET 3	OF 7 SHEETS	STA. TO STA.	98-00026-02-WR	LAKE	210	104
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PLOT DATE = 3/4/2019	DATE -	REVISED -									

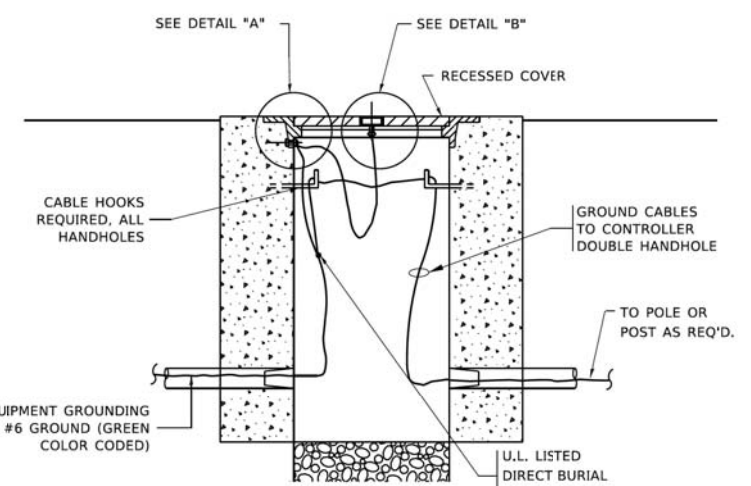


ELECTRICAL SERVICE – PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)
SERVICE INSTALLATION POLE MOUNT (SHOWN)
 (NOT TO SCALE)

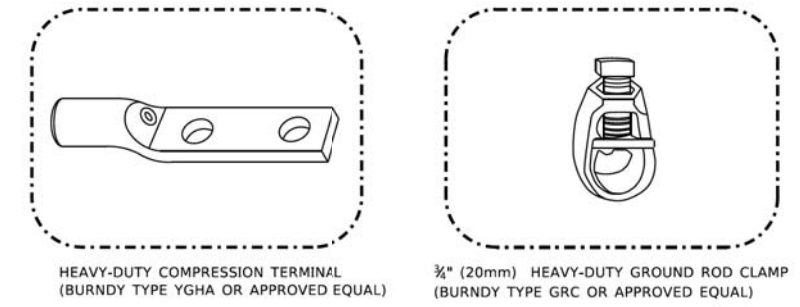


NOTES:
GROUNDING SYSTEM

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 CONTINUOUS 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.

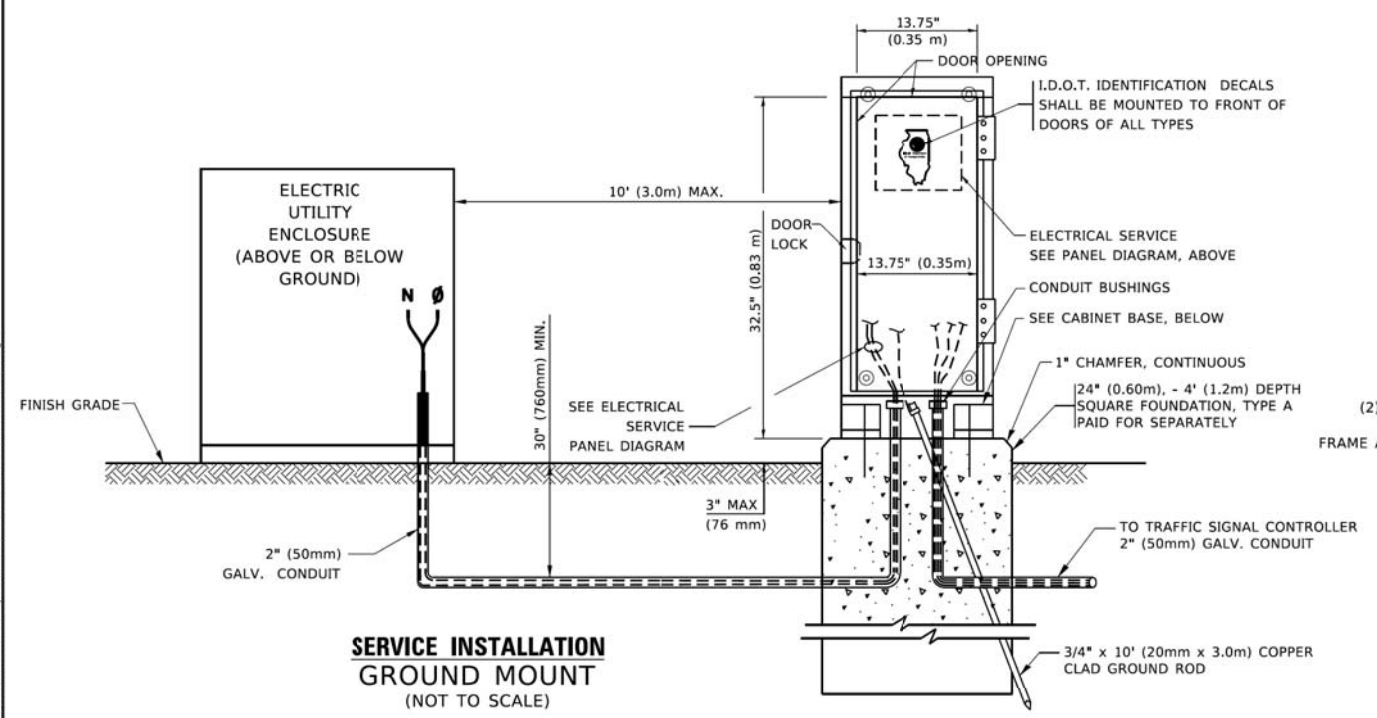


HANDHOLE COVER & FRAME – GROUNDING DETAIL
 (NOT TO SCALE)

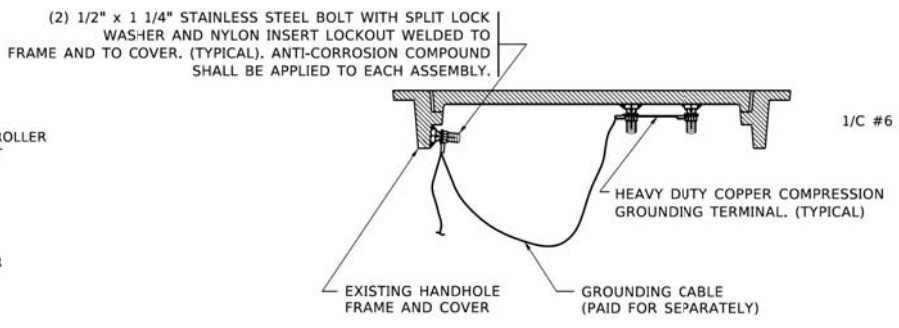


NOTES:

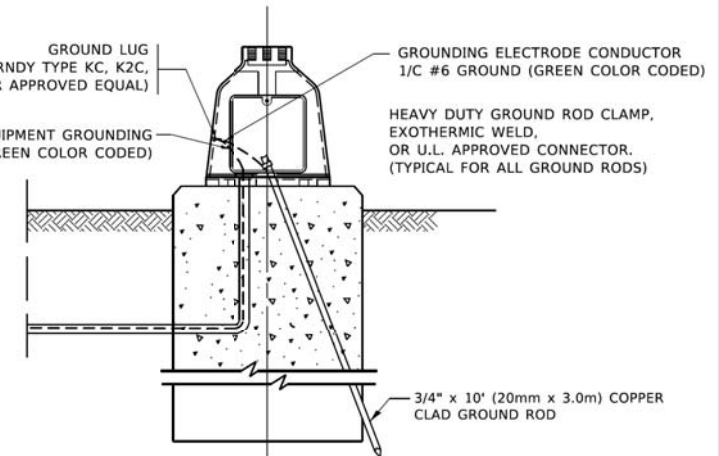
- ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
- GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES 6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES 13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES. 5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.



SERVICE INSTALLATION GROUND MOUNT
 (NOT TO SCALE)

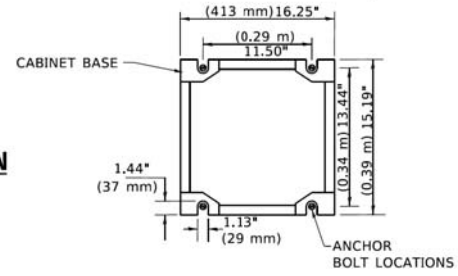


EXISTING HANDHOLE COVER & FRAME – GROUNDING DETAIL
 (NOT TO SCALE)



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

CABINET – BASE BOLT PATTERN
 (NOT TO SCALE)



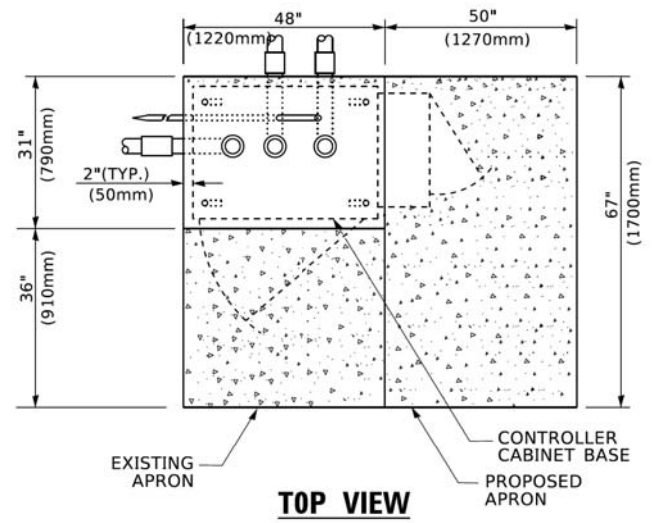
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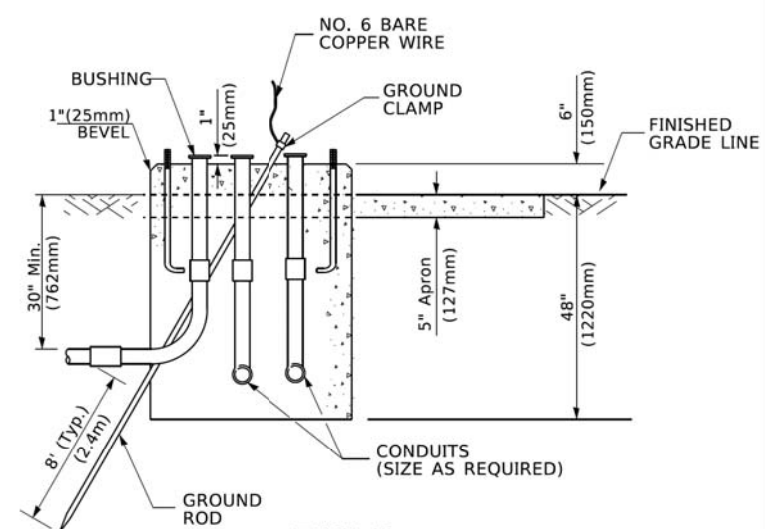
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE			
STANDARD TRAFFIC SIGNAL DESIGN DETAILS			
SCALE: NONE	SHEET 4	OF 7 SHEETS	STA. TO STA.

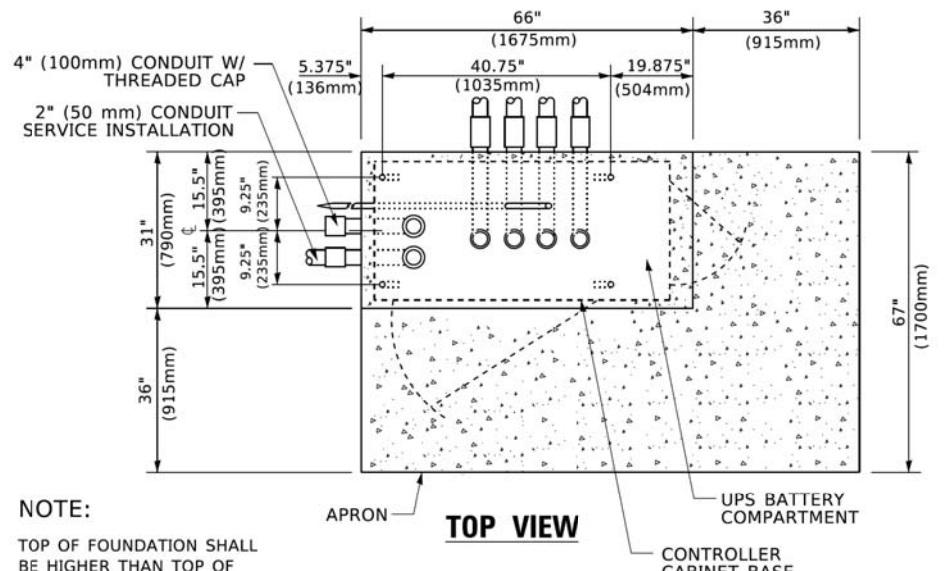
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	98-00026-02-WR	LAKE	210	105
TS-05			CONTRACT NO.	
ILLINOIS FED. AID PROJECT				



TOP VIEW

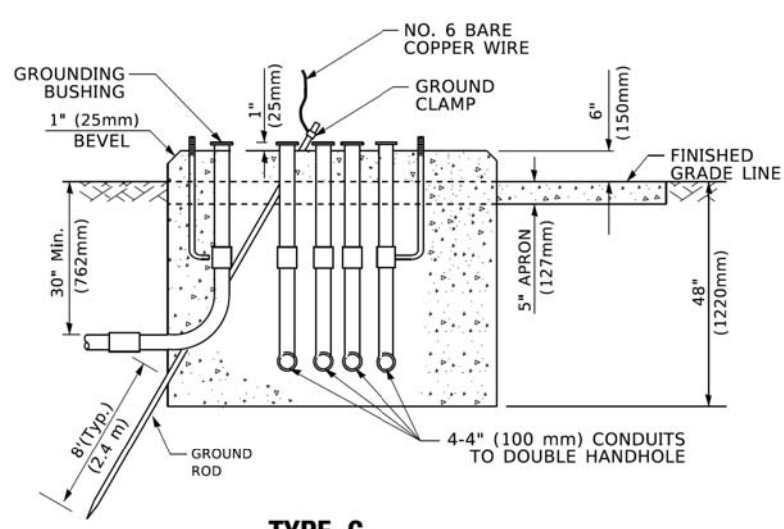


**TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET**

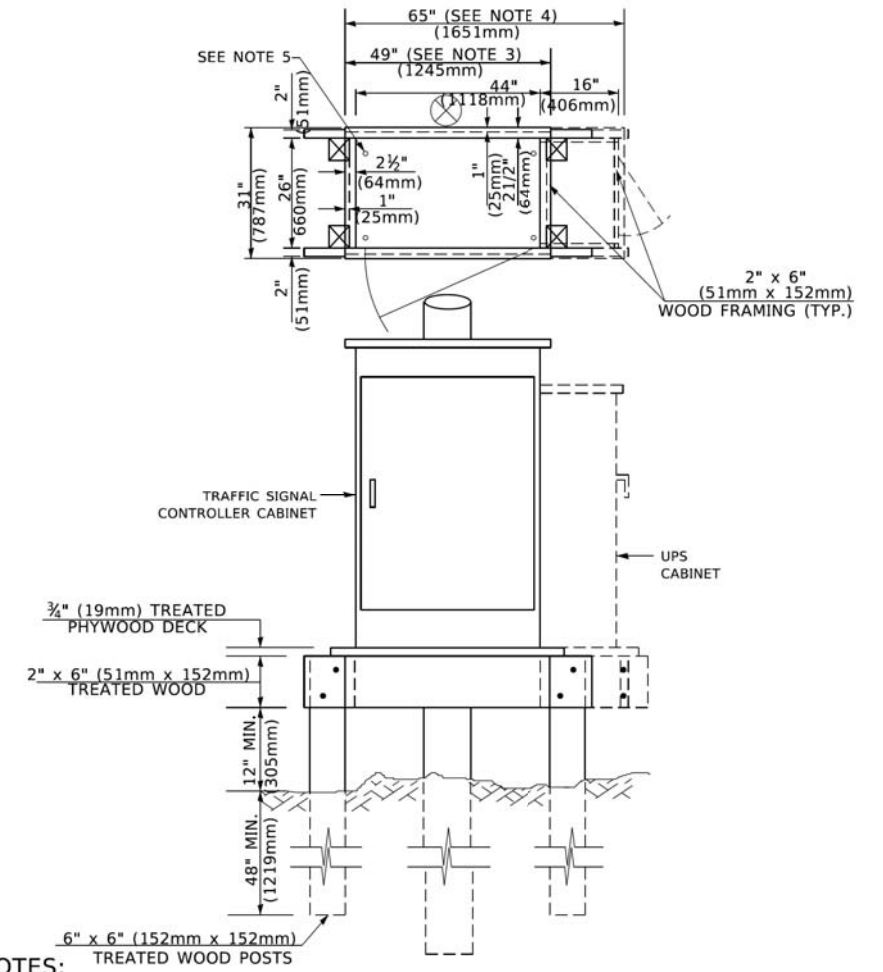


TOP VIEW

NOTE:
TOP OF FOUNDATION SHALL BE HIGHER THAN TOP OF DOUBLE HANDHOLE



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



**TEMPORARY SIGNAL CONTROLLER
WOOD SUPPORT PLATFORM**

- NOTES:**
- 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.
 - 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.
 - PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV.
 - PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV AND UNINTERRUPTIBLE POWER SUPPLY CABINET.
 - 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.
 - FASTEN ALL SUPPORT WOOD FRAMING TO THE WOOD POSTS WITH 2 LAG SCREWS FOR EACH CONNECTION.

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)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	11'-0" (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 55' (16.8 m) and less than 65' (19.8 m)	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 65' (19.8 m) and less than 75' (22.9 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 75' (22.9 m)	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

- NOTES:**
- 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.
 - Combination mast arm assemblies under 55 feet (16.8 m) shall use 36" (900 mm) diameter foundations.
 - Combination mast arm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm) diameter foundations.
 - For mast arm assemblies with dual arms refer to state standard 878001..

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

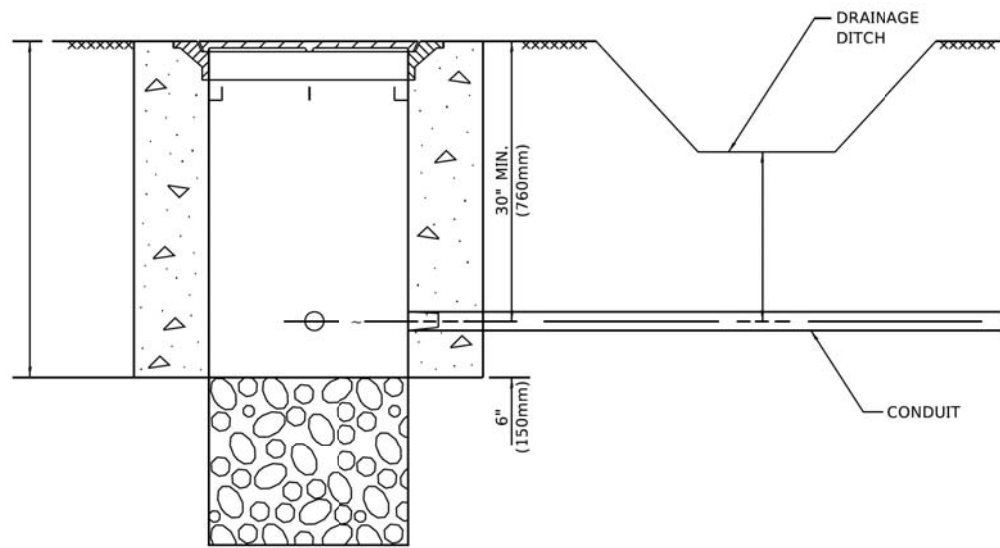
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DISTRICT ONE			
STANDARD TRAFFIC SIGNAL DESIGN DETAILS			
SCALE: NONE	SHEET 5	OF 7 SHEETS	STA. TO STA.

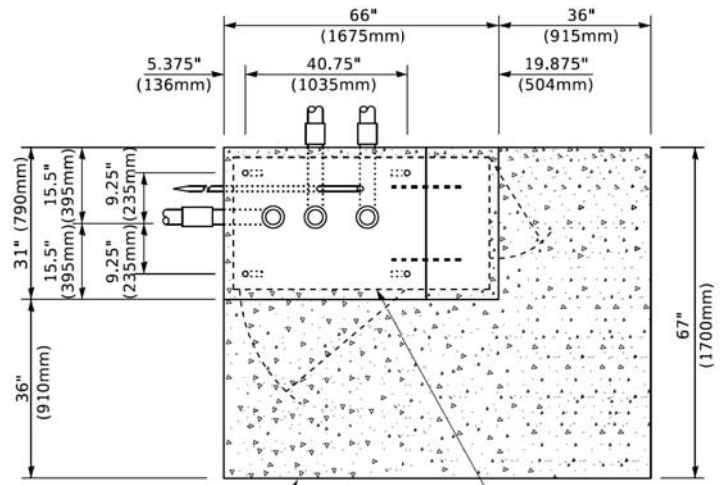
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	98-00026-02-WR	LAKE	210	106
TS-05			CONTRACT NO.	
ILLINOIS FED. AID PROJECT				



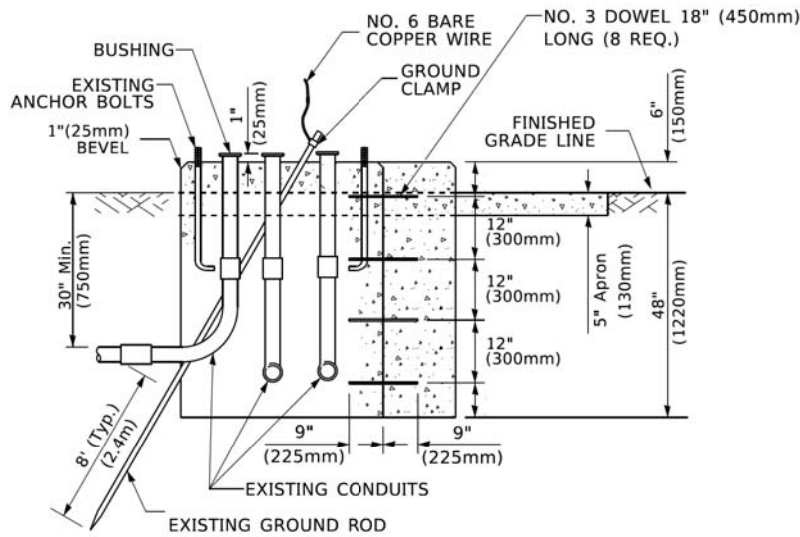
NOTES:

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.

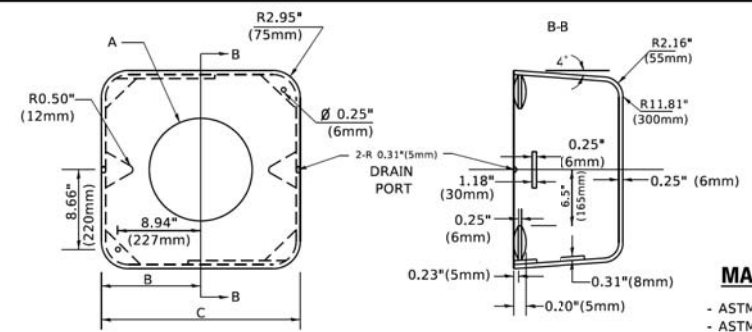
HANDHOLE WITH MINIMUM CONDUIT DEPTH
(NOT TO SCALE)



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

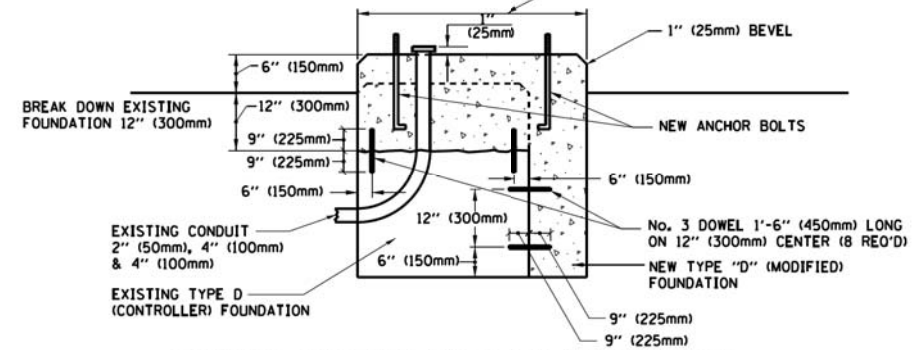
SHROUD

NOTES:

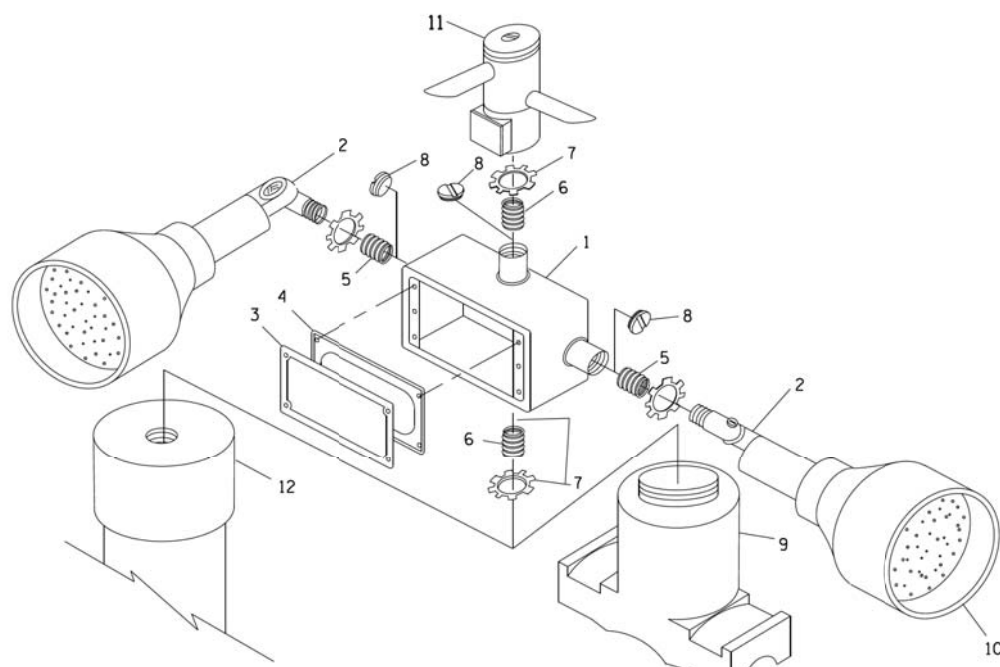
1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
2. THE SUPPLIER SHALL VERIFY THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.

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

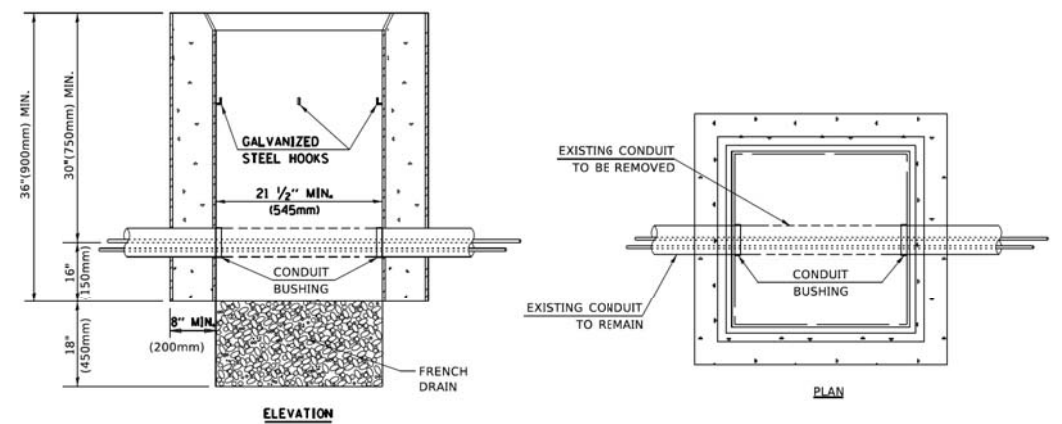


POST CAP MOUNT **MAST ARM MOUNT**
EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL

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	3/4" (19 mm) CLOSE NIPPLE
7	3/4" (19 mm) LOCKNUT
8	3/4" (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

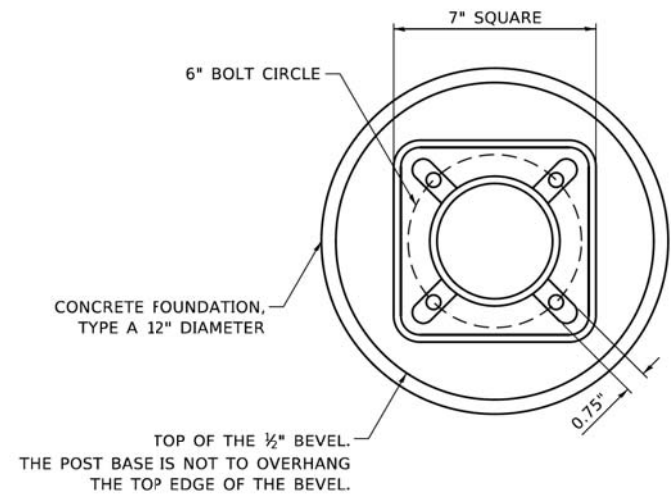
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

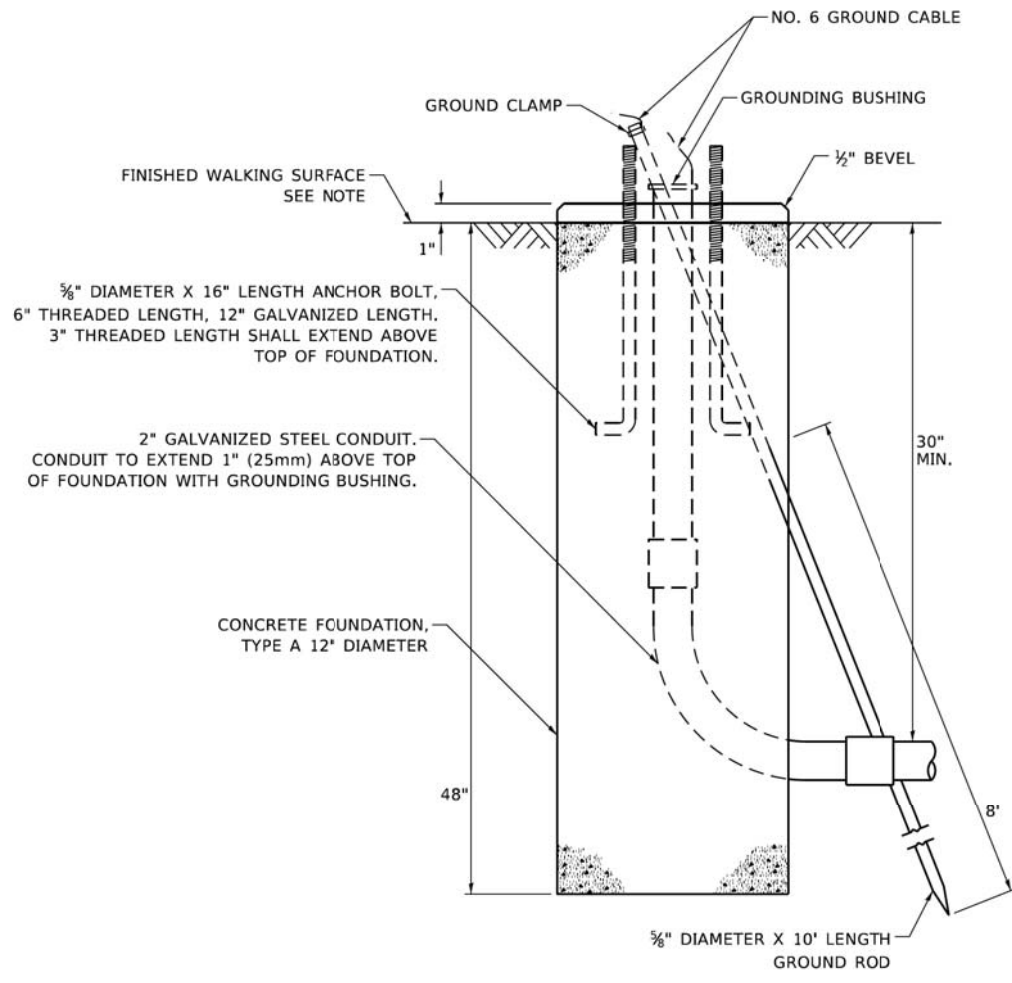
DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS
SCALE: NONE SHEET 6 OF 7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	98-00026-02-WR	LAKE	210	107
	TS-05		CONTRACT NO.	
		ILLINOIS	FED. AID PROJECT	

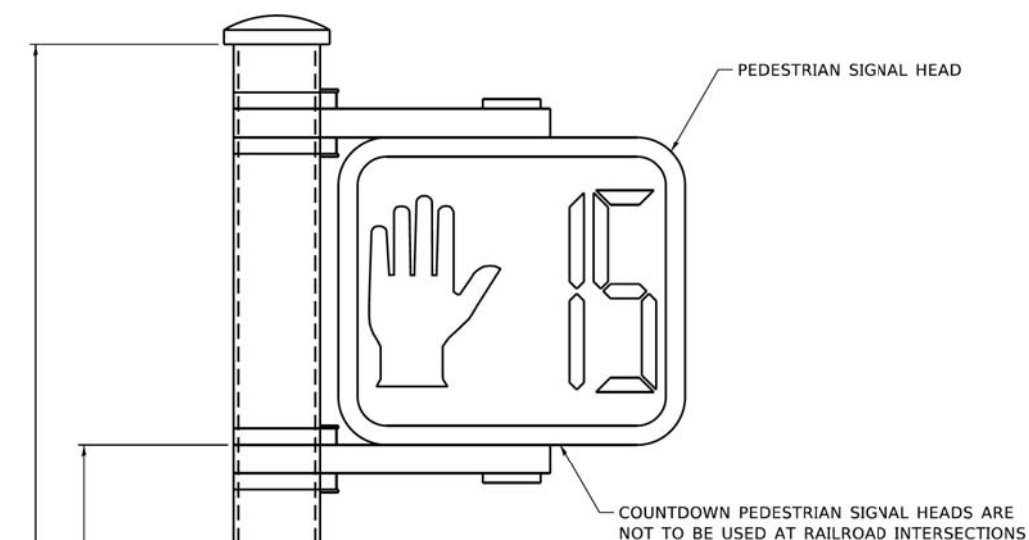


BOLT PATTERN

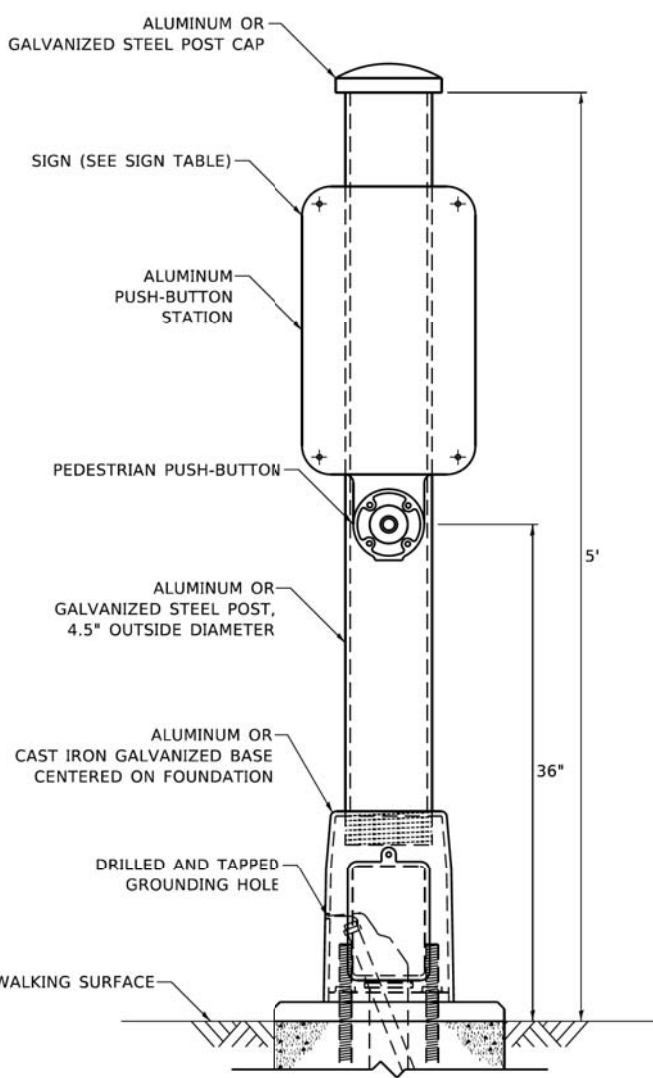
NOTE:
 1. IF THE PEDESTRIAN SIGNAL POST FOUNDATION IS INSTALLED WITHIN OR BEHIND A BARRIER CURB, THE TOP OF THE FOUNDATION SHALL BE INSTALLED FLUSH WITH THE TOP OF THE BARRIER CURB.



CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER



PEDESTRIAN SIGNAL POST, 10 FT.



PEDESTRIAN SIGNAL POST, 5 FT.



SIGN TABLE

SIGN	DIMENSIONS
R10-3b (RAILROAD ONLY)	9" X 12"
R10-3d (RAILROAD ONLY)	9" X 12"
R10-3e	9" X 15"

NOTES:
 1. THE SIGN PANELS SHALL BE TYPE AP SHEETING.
 2. THE ARROW ON SIGNS FOR PUSH-BUTTONS SERVING TWO DIRECTIONS ON THE SAME PHASE SHALL BE BI-DIRECTIONAL.
 3. THE SIGN FOR DUAL-CALL PUSH-BUTTONS SHALL HAVE NO ARROW.

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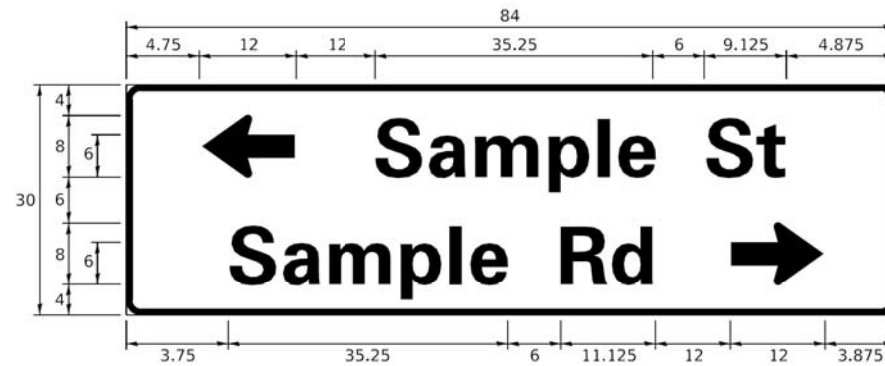
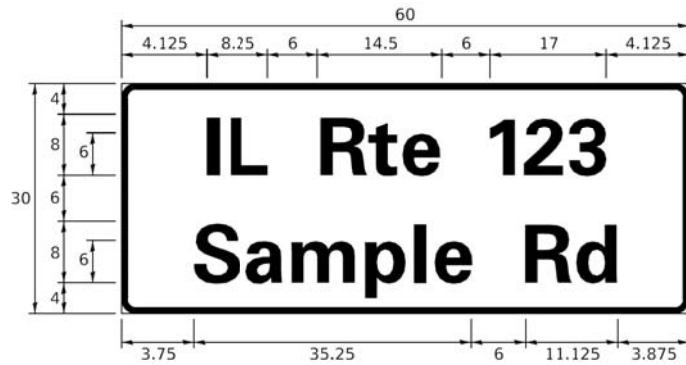
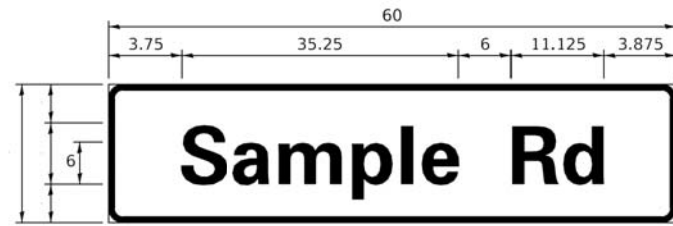
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS			
SCALE: NTS	SHEET NO. 7 OF 7 SHEETS	STA. TO STA.	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	98-00026-02-WR	LAKE	210	108
TS-05			CONTRACT NO.	
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	ABBREVIATION	WIDTH (INCH)	
		SERIES "C"	SERIES "D"
AVENUE	Ave	15.000	18.250
BOULEVARD	Blvd	17.125	20.000
CIRCLE	Cir	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

- 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.
- ALL SIGNS SHALL CONSIST OF A WHITE LEGEND AND BORDER (TYPE ZZ SHEETING) ON A GREEN BACKGROUND (TYPE ZZ SHEETING)
- 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.
- 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.
- 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.
- 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

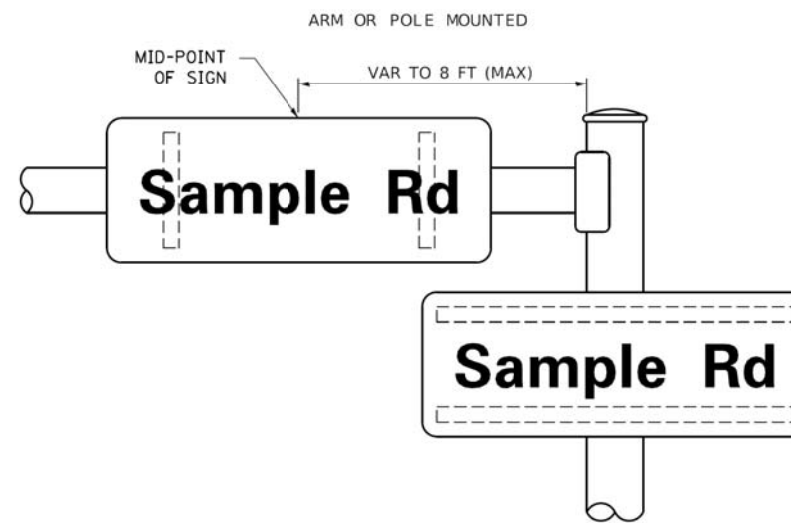
- WESTERN REMAC, INC.
WOODRIDGE, IL

PARTS LISTING:

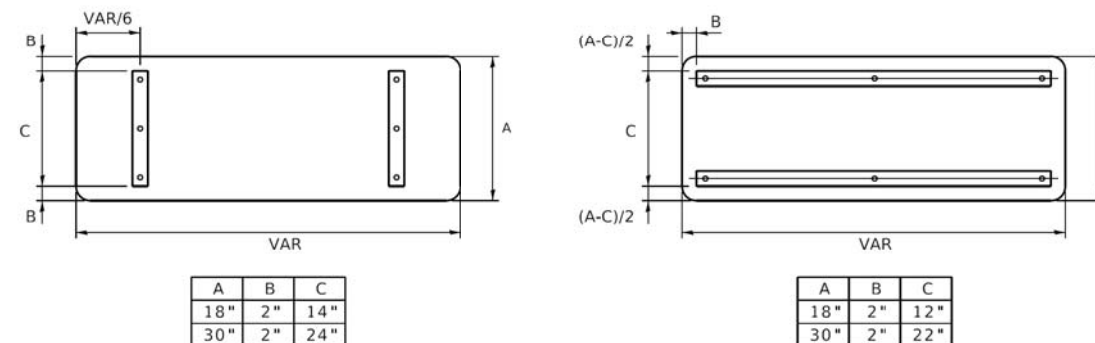
SIGN CHANNEL PART #HPN053 (MED. CHANNEL)
SIGN SCREWS 1/4" x 14 x 1" H.W.H. #3
SELF TAPPING WITH NEOPRENE WASHER
PART #HPN034 (UNIVERSAL)
BRACKETS CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING

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

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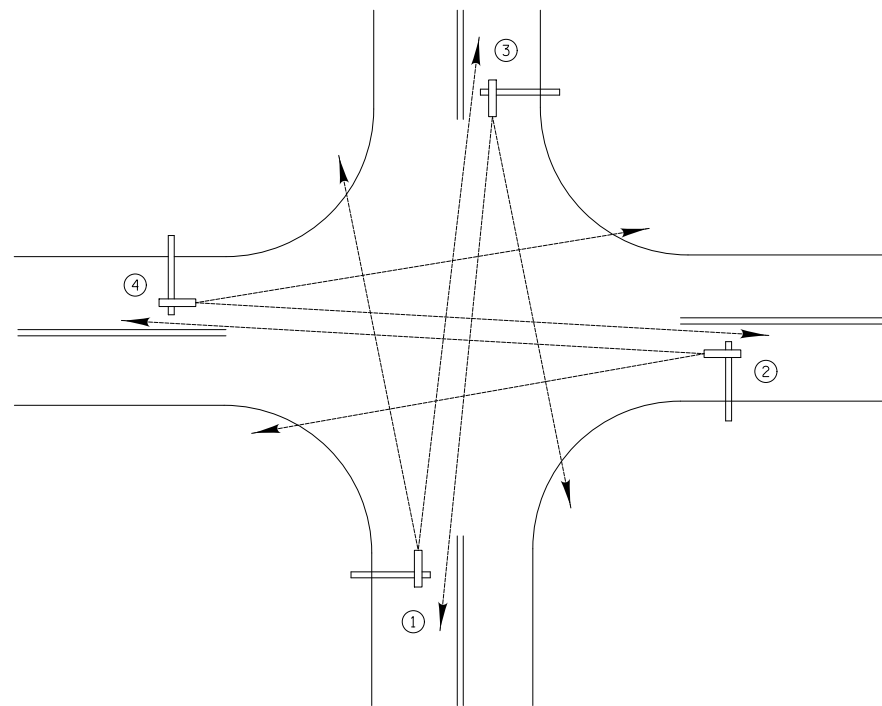
USER NAME = footemj	DESIGNED - LP/IP	REVISED - LP 07/01/2015
PLOT SCALE = 50.0000" / in.	DRAWN - LP	REVISED -
PLOT DATE = 3/4/2019	CHECKED - IP	REVISED -
	DATE - 10/01/2014	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DISTRICT ONE			
MAST ARM MOUNTED STREET NAME SIGNS			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	C-91-080-18	LAKE	210	109
TS-02		CONTRACT NO.		
ILLINOIS FED. AID PROJECT				

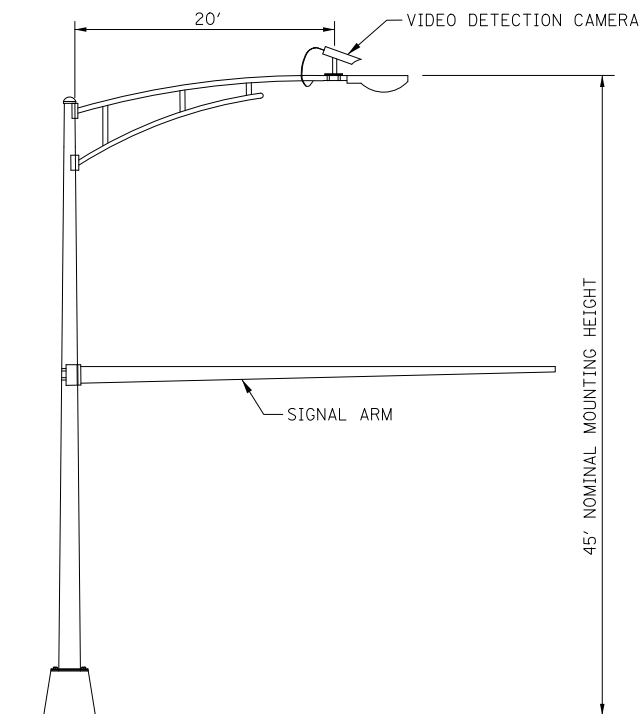
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	PLOTTED	
	ALIGNED	
	CHECKED	
	FILE NAME	
	NO.	
	BY	
	DATE	



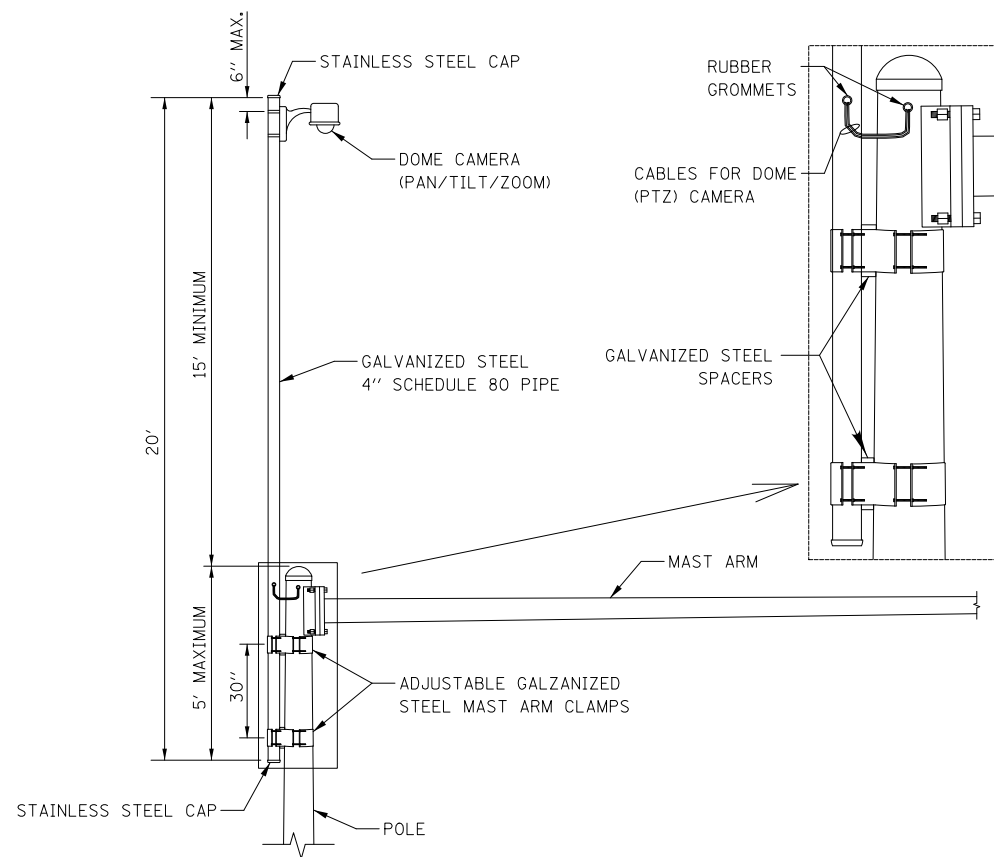
TYPICAL VIDEO VEHICLE
DETECTION SYSTEM
(NOT TO SCALE)

(4) VIDEO DETECTION CAMERA ASSEMBLIES AND BRACKETS ① ② ③ ④

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES	
	CHECKED	
	STRUCTURE	
	NOTATION	
	NO.	
	BY	
	DATE	



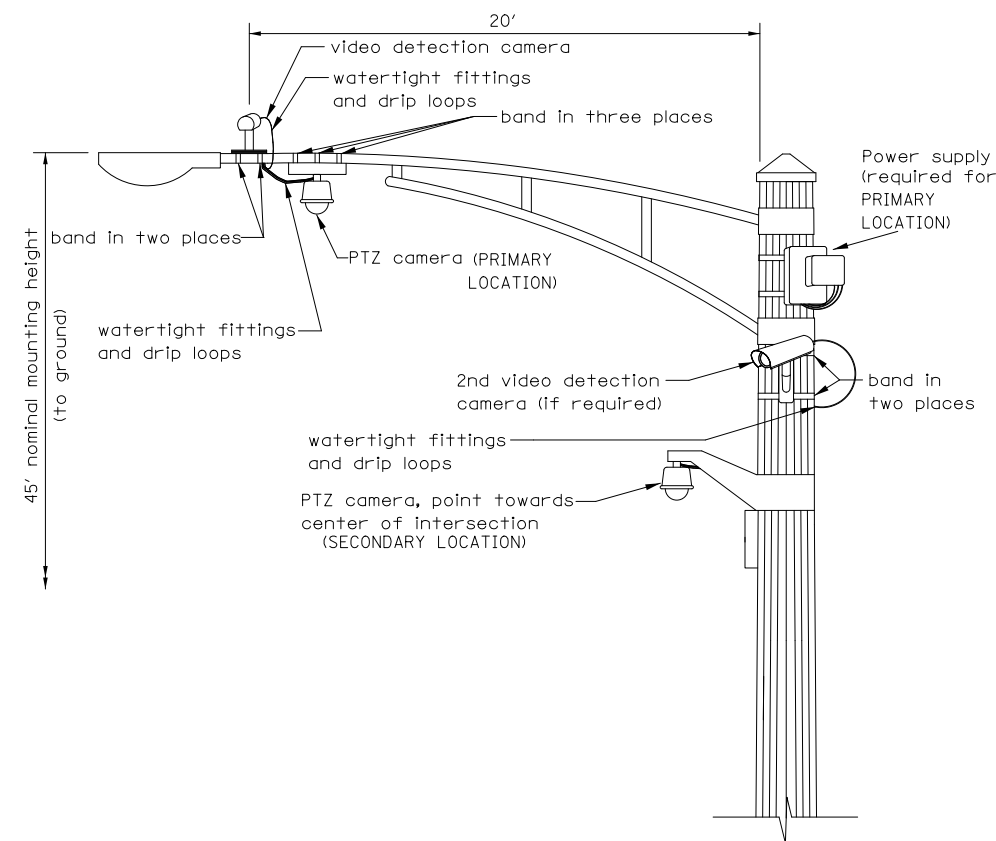
COMBINATION MAST ARM ASSEMBLY
AND POLE DIMENSIONS
(NOT TO SCALE)



CAMERA MOUNTING ASSEMBLY DETAIL
(NOT TO SCALE)

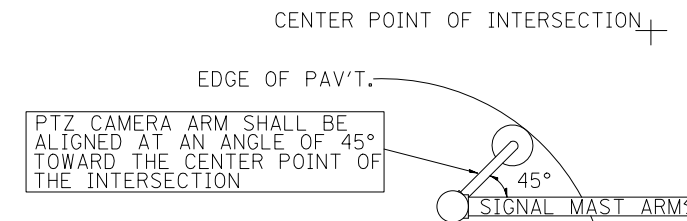
NOTES:

- THE MAST ARM IS TAPERED.
- INSTALL EXTENSION POLE VERTICAL AND PLUMB BY MODIFYING/INSTALLING BRACKETS AS NECESSARY. ADDITIONAL SPACERS REQUIRED ARE INCLUDED IN THE COST OF THE CAMERA MOUNTING ASSEMBLY OF THE TYPE SPECIFIED.
- SPACERS ARE TO BE INTEGRATED OR MANUFACTURED WITH THE MAST ARM BRACKETS



VIDEO DETECTION CAMERA(S) AND
DOME (PTZ) CAMERA MOUNTING DETAIL
(NOT TO SCALE)

- NOTES FOR SINGLE, DUAL AND MULTIPLE CAMERA MOUNTING:
- MOUNT LUMINAIRE MOUNTING BRACKET AS HIGH AS POSSIBLE.
 - MOUNT VIDEO DETECTION CAMERA AIMING DOWN TOWARD THE DIRECTION OF TRAFFIC TO BE DETECTED.



PTZ CAMERA MOUNTING DETAILS
(SECONDARY LOCATION)
(NO SCALE)

REVISIONS	DATE
Mounting Details Revised	05/01/08
2nd Camera Locat. added	01/14/09
Mast Arm Taper Detail	06/01/12
Mounting Details Revised	06/13/14



APPROVED BY: J. P. NELSON
DATE: JUNE 13, 2014

CAMERA MOUNTING DETAILS

LC8900



Two Pierce Place, Suite 1400
Itasca, Illinois 60143
Tel: 630.773.3900 Fax: 630.773.3975
www.civiltechinc.com

DESIGNED - LEP	REVISED -
DRAWN - LEP	REVISED -
CHECKED - JJE	REVISED -
DATE - 11/02/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LAKEVIEW PARKWAY IMPROVEMENT
LAKE COUNTY DIVISION OF TRANSPORTATION
CAMERA MOUNTING DETAILS

SHEET 1 OF 1 SHEETS STA TO STA

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
2419	98-00026-02-WR	LAKE	210	110
CONTRACT NO 61115				
ILLINOIS FED AID PROJECT				

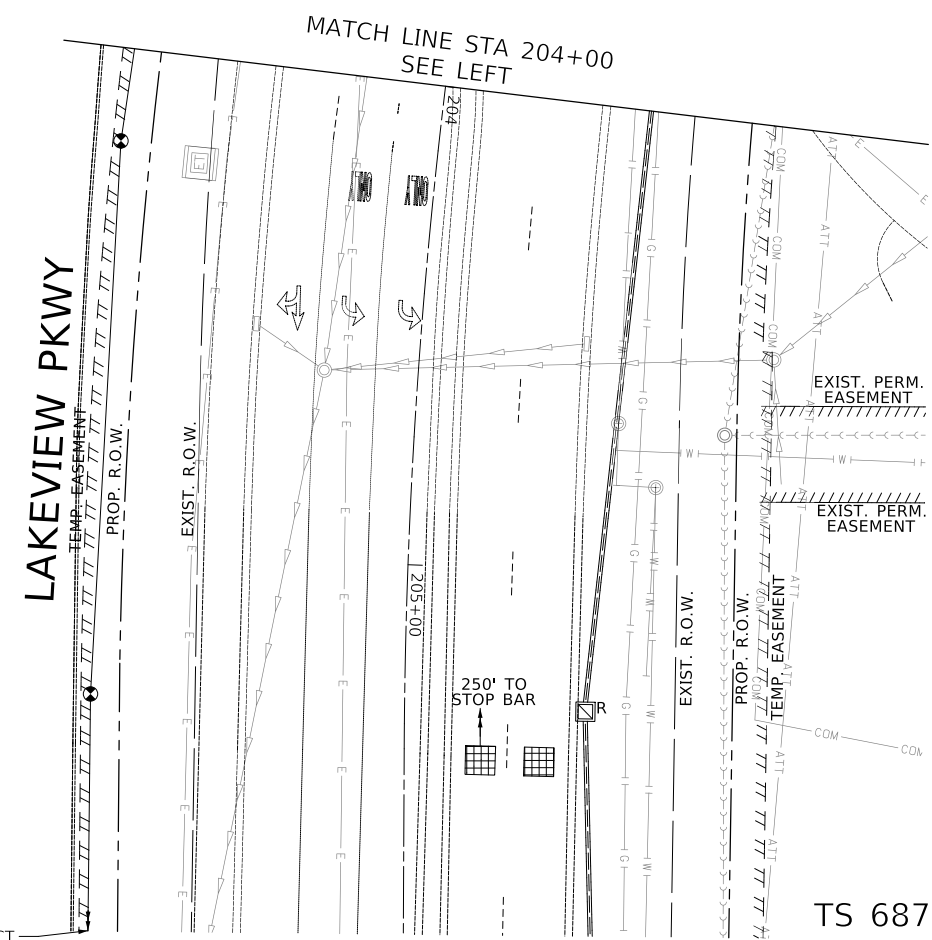
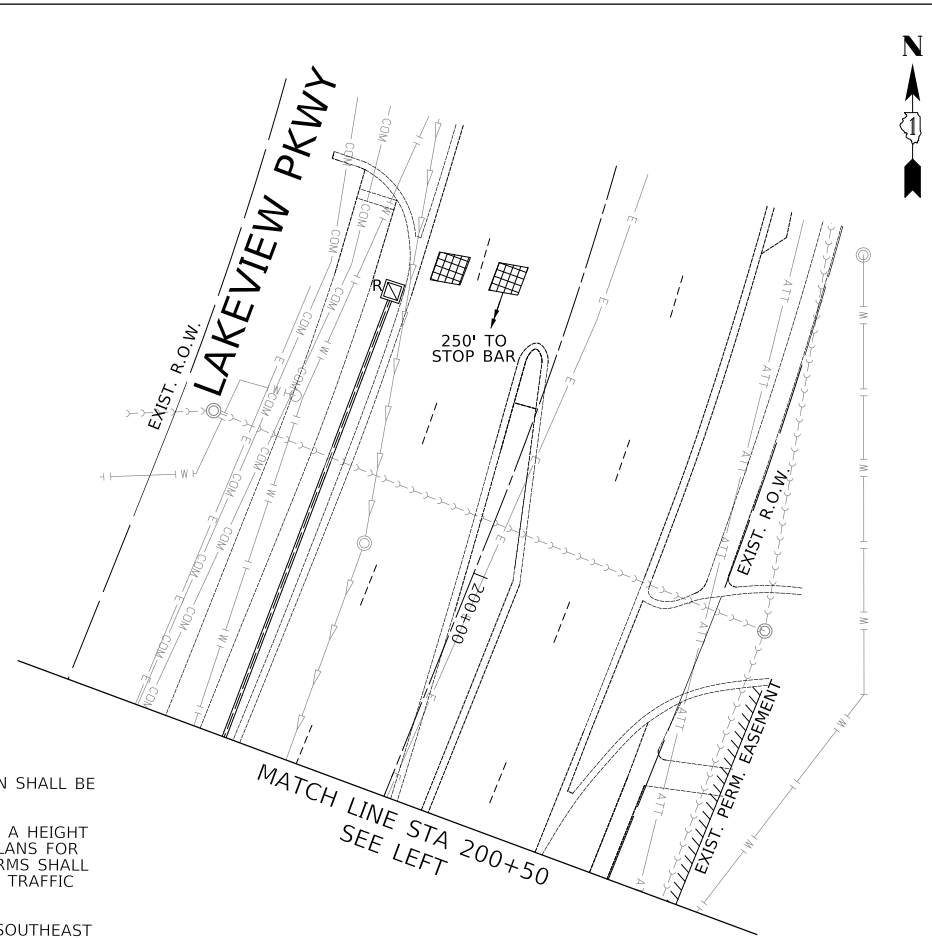
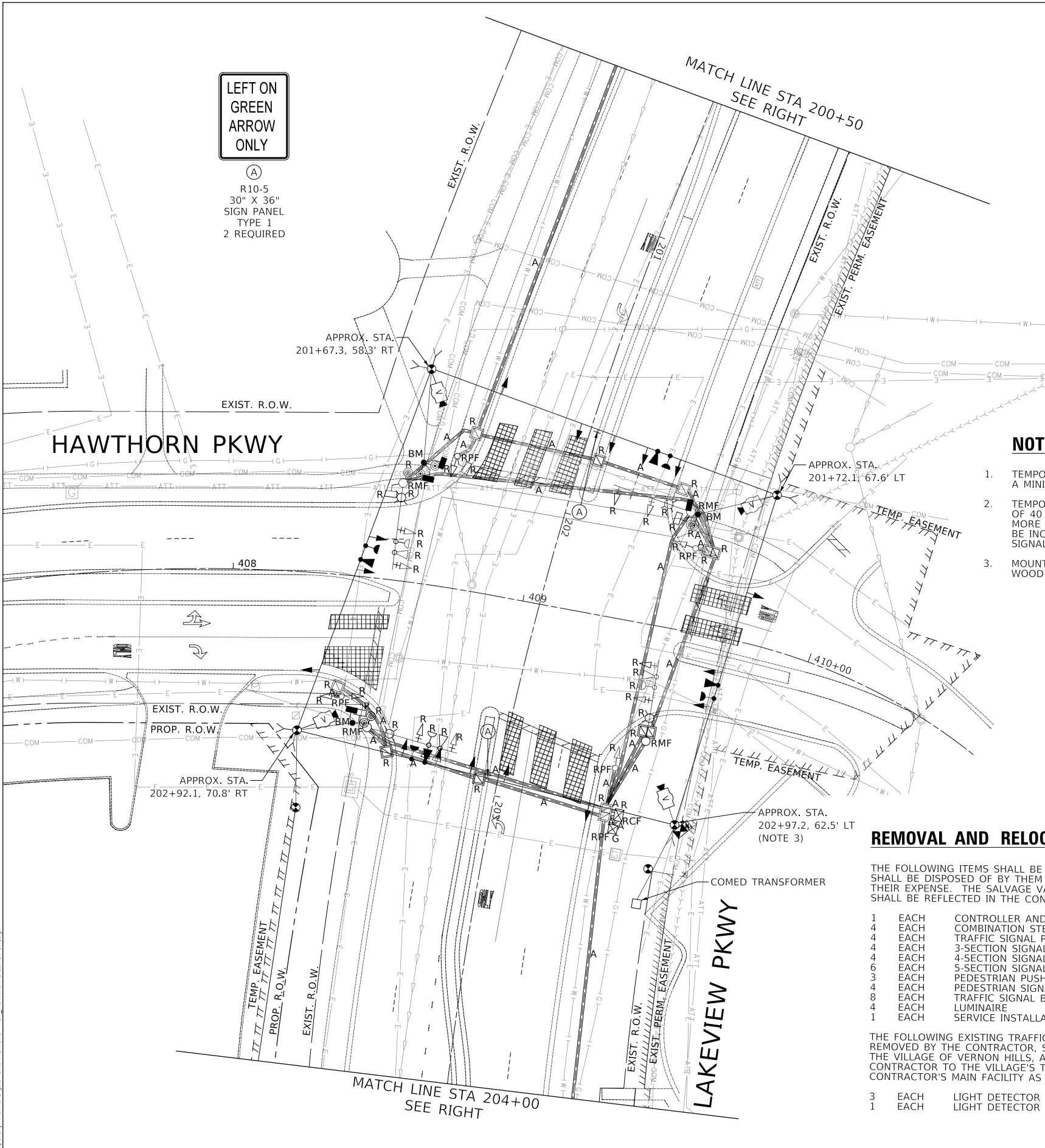


LEFT ON GREEN
ARROW ONLY

(A)
R10-5
30" X 36"
SIGN PANEL
TYPE 1
2 REQUIRED

PLAN	SURVEYED	DATE
	PLOTTED	
NOTE BOOK	ALIGNED	CHECKED
	NO.	NO.
CADD FILE NAME		

PROFILE	SURVEYED	DATE
	PLOTTED	
NOTE BOOK	GRADES	CHECKED
	NO.	NO.
STRUCTURE NOTATIONS CIPVD		



NOTES:

- TEMPORARY WOOD POLES AT THIS INTERSECTION SHALL BE A MINIMUM OF 50 FEET IN LENGTH.
- TEMPORARY LUMINAIRES SHALL BE MOUNTED AT A HEIGHT OF 40 FEET ON 15-FOOT ARMS. SEE LIGHTING PLANS FOR MORE INFORMATION. THE COST OF THE MAST ARMS SHALL BE INCLUDED IN THE COST OF THE "TEMPORARY TRAFFIC SIGNAL INSTALLATION."
- MOUNT TEMPORARY SERVICE INSTALLATION ON SOUTHEAST WOOD POLE.

REMOVAL AND RELOCATION NOTES:

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

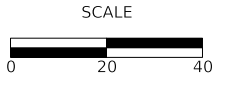
- | | | |
|---|------|--|
| 1 | EACH | CONTROLLER AND CABINET (COMPLETE) |
| 4 | EACH | COMBINATION STEEL MAST ARM ASSEMBLY AND POLE |
| 4 | EACH | TRAFFIC SIGNAL POST |
| 4 | EACH | 3-SECTION SIGNAL HEAD |
| 4 | EACH | 4-SECTION SIGNAL HEAD |
| 6 | EACH | 5-SECTION SIGNAL HEAD |
| 3 | EACH | PEDESTRIAN PUSH-BUTTON |
| 4 | EACH | PEDESTRIAN SIGNAL HEAD |
| 8 | EACH | TRAFFIC SIGNAL BACKPLATE |
| 4 | EACH | LUMINAIRE |
| 1 | EACH | SERVICE INSTALLATION |

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SHALL REMAIN THE PROPERTY OF THE VILLAGE OF VERNON HILLS, AND SHALL BE DELIVERED BY THE CONTRACTOR TO THE VILLAGE'S TRAFFIC SIGNAL MAINTENANCE CONTRACTOR'S MAIN FACILITY AS PER THE SPECIAL PROVISIONS.

- | | | |
|---|------|--------------------------|
| 3 | EACH | LIGHT DETECTOR |
| 1 | EACH | LIGHT DETECTOR AMPLIFIER |

TEMPORARY FIBER INTERCONNECT TO IL ROUTE 60

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



**LAKEVIEW PARKWAY IMPROVEMENT
TEMPORARY TRAFFIC SIGNAL AND REMOVAL PLAN
LAKEVIEW PARKWAY AND HAWTHORN PARKWAY**

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2419	98-00026-02-WR	LAKE	210	111
CONTRACT NO 61115				
ILLINOIS FED AID PROJECT				

TS 6877
ECON 160



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Itasca, Illinois 60143
Tel: 630.773.3900 Fax: 630.773.3975
www.civiltechinc.com

DESIGNED - LEP	REVISED -
DRAWN - LEP	REVISED -
CHECKED - JJE	REVISED -
DATE - 11/02/2022	REVISED -

MODEL: SH06DLNAMES
FILE NAME: ...110_Temporary Traffic Signal and Removal Plan Hawthorne-Lakeview.dgn

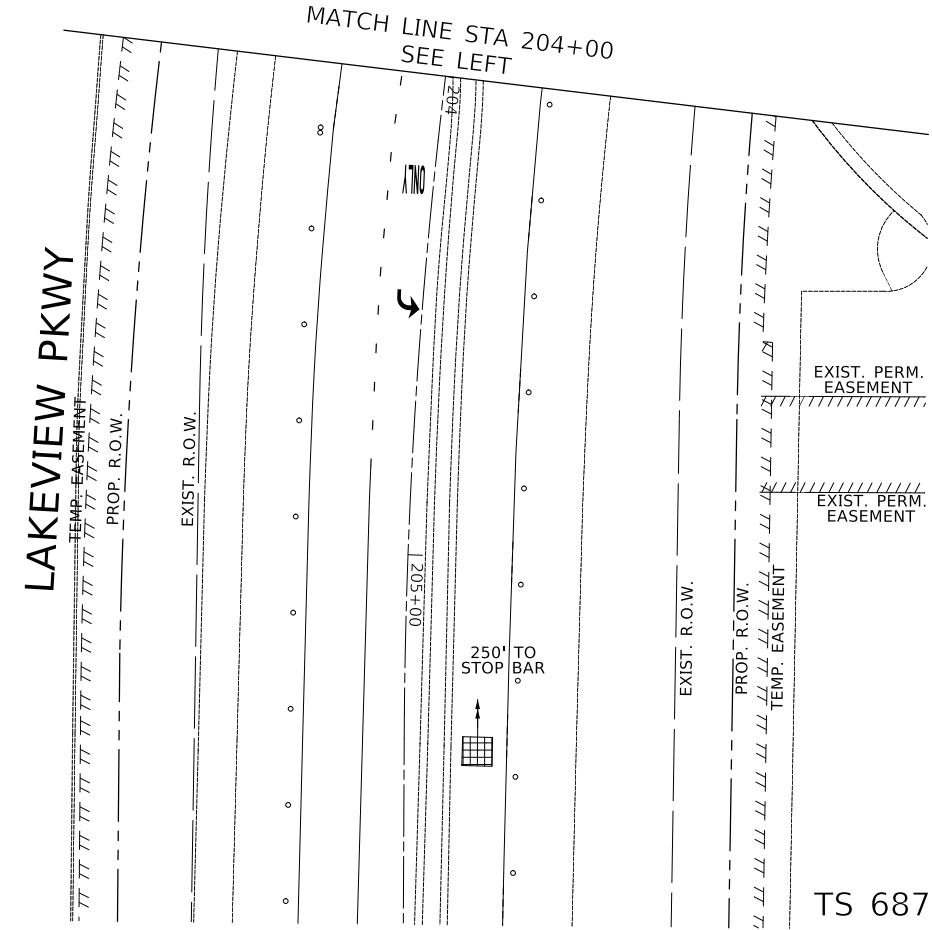
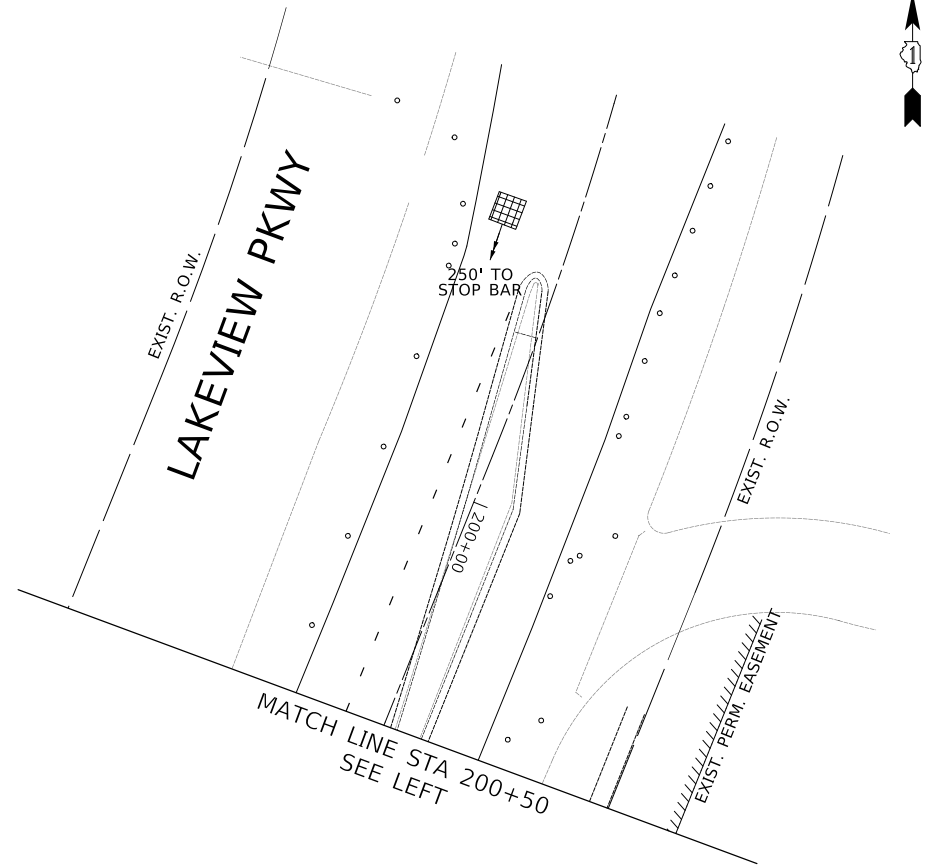
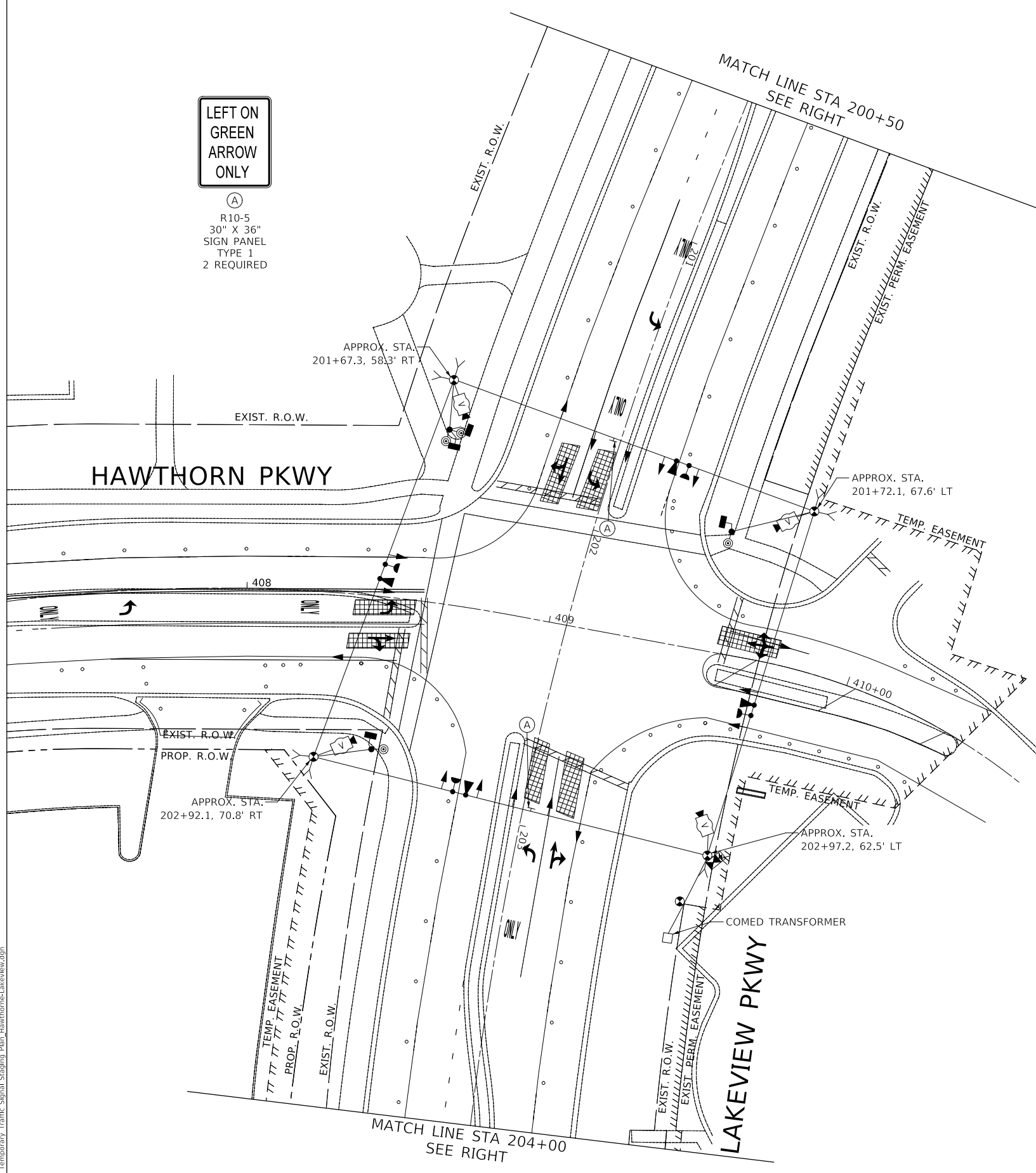


PLAN	SURVEYED	BY	DATE
	PLOTTED		
NOTE BOOK	ALIGNED CHECKED		
	STRUCTURE NOTATION		
	NO.		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
NOTE BOOK	GRADES CHECKED		
	STRUCTURE NOTATION		
	NO.		

**LEFT ON
GREEN
ARROW
ONLY**

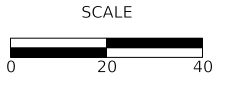
(A)
R10-5
30" X 36"
SIGN PANEL
TYPE 1
2 REQUIRED



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CHECKED - JJE	REVISED -
DATE - 11/02/2022	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**



**LAKEVIEW PARKWAY IMPROVEMENT
TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 1
LAKEVIEW PARKWAY AND HAWTHORN PARKWAY**

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
2419	98-00026-02-WR	LAKE	210	112
CONTRACT NO 61115				
ILLINOIS FED AID PROJECT				

TS 6877
ECON 160

MODEL: SH0DELNAMRES
FILE NAME: ...10A_MDT 01 Temporary Traffic Signal Staging Plan_Hawthorne-Lakeview.dgn

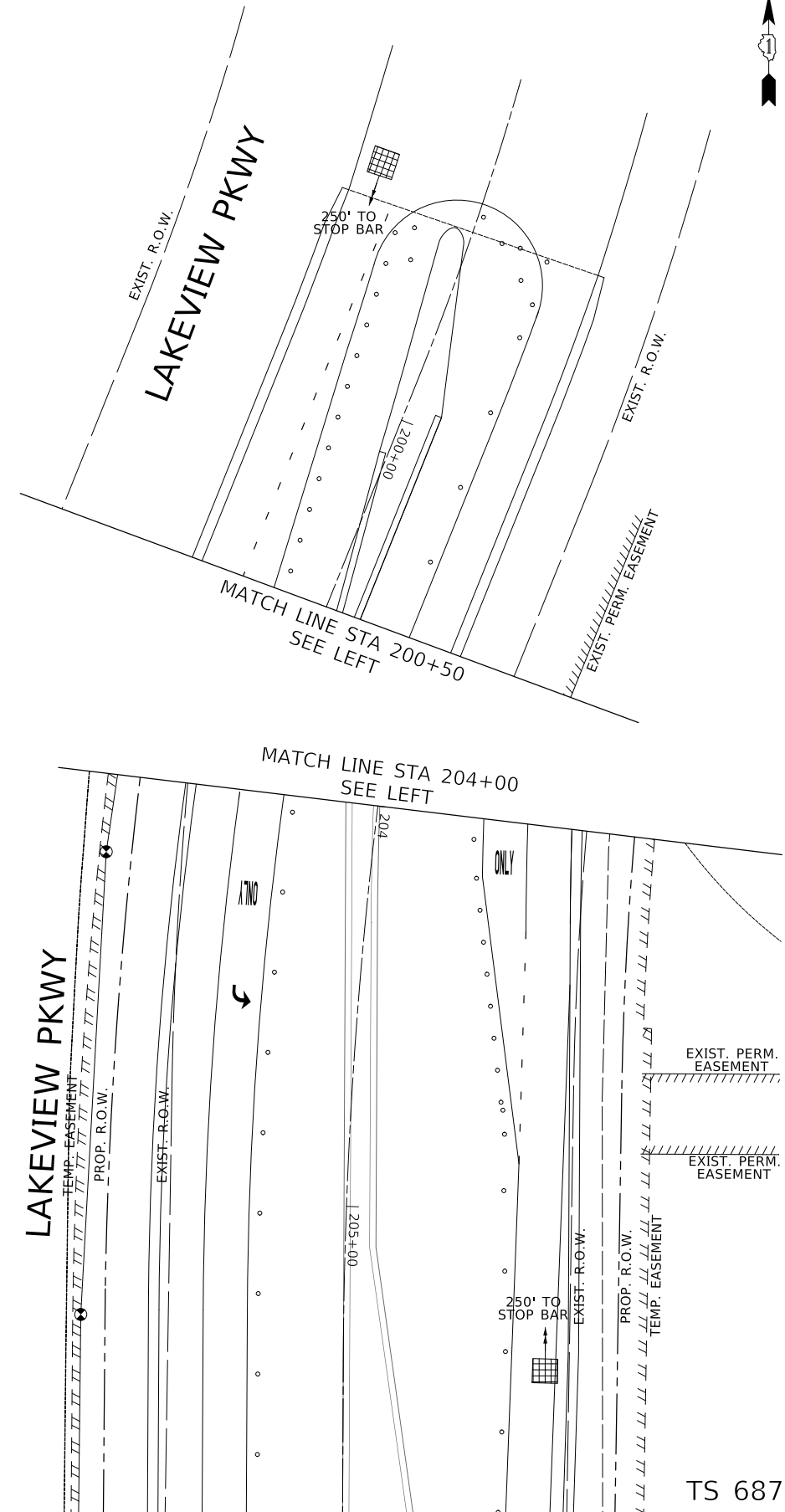
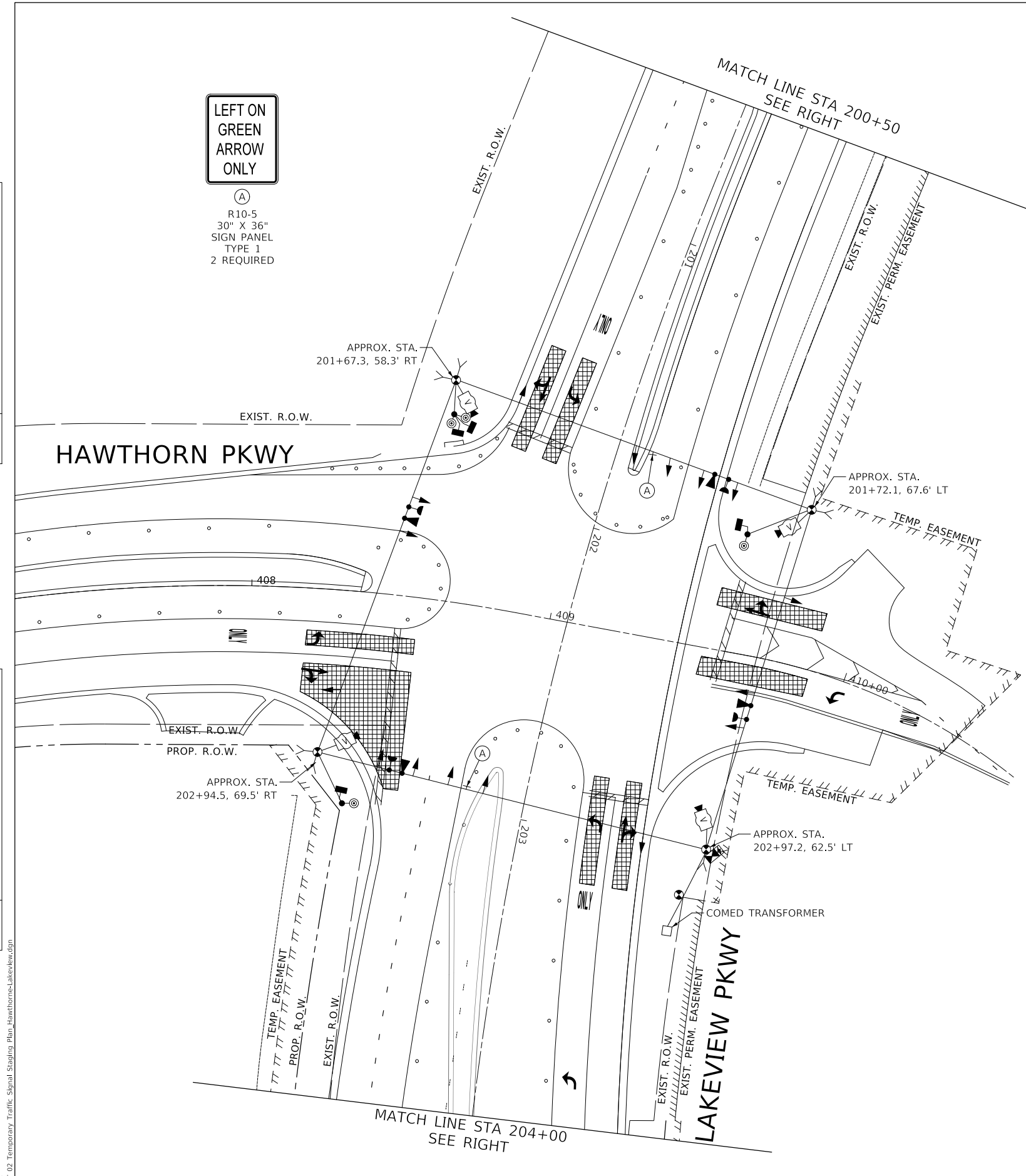


**LEFT ON
GREEN
ARROW
ONLY**

Ⓐ
R10-5
30" X 36"
SIGN PANEL
TYPE 1
2 REQUIRED

PLAN	SURVEYED	DATE
	PLOTTED	
NOTE BOOK	ALIGNED CHECKED	
	CADD FILE NAME	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	
NOTE BOOK	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NO.	



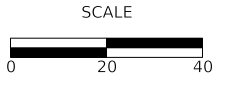
MODEL: S:\MODEL\NAME\...1108_PLOT 02 Temporary Traffic Signal Staging Plan_Hawthorne-Lakeview.dgn



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DRAWN -	LEP	REVISED -	
CHECKED -	JJE	REVISED -	
DATE -	11/02/2022	REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**



**LAKEVIEW PARKWAY IMPROVEMENT
TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 2
LAKEVIEW PARKWAY AND HAWTHORN PARKWAY**

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
2419	98-00026-02-WR	LAKE	210	113
CONTRACT NO 61115				
ILLINOIS FED AID PROJECT				

TS 6877
ECON 160

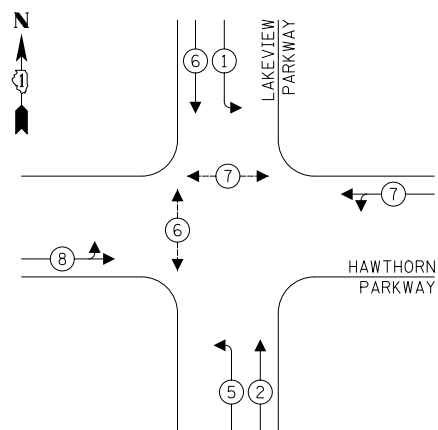
SHEET 1 OF 1 SHEETS STA TO STA



PLAN	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NOTE BOOK NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NOTE BOOK NO.	

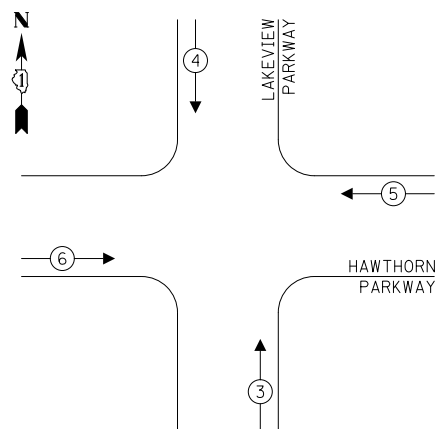
TEMPORARY CONTROLLER SEQUENCE



LEGEND:

- ← ⊙ ← PROTECTED PHASE
- ← ⊙ ← PROTECTED/PERMITTED PHASE
- ← ⊙ → PEDESTRIAN PHASE
- ← ⊙ OL OVERLAP

TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	16	11	50	88.0
(YELLOW)	16	20	5	16.0
(GREEN)	20	12	45	108.0
PROTECTIVE ARROW	-	10	10	-
PED. SIGNAL	4	20	100	80.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	-	-	-
TOTAL =				567.0

ENERGY COSTS TO:
 VILLAGE OF VERNON HILLS
 290 EVERGREEN DRIVE
 VERNON HILLS, IL 60061
 ENERGY SUPPLY: CONTACT: XXXX
 PHONE: XXXX
 COMPANY: COMED
 ACCOUNT NUMBER: ---

MODEL: SH02ELNAMES
 FILE NAME: ...11_Temporary Cable Plan and Sequences_Hawthorn_Lakeview.dgn

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 Two Pierce Place, Suite 1400
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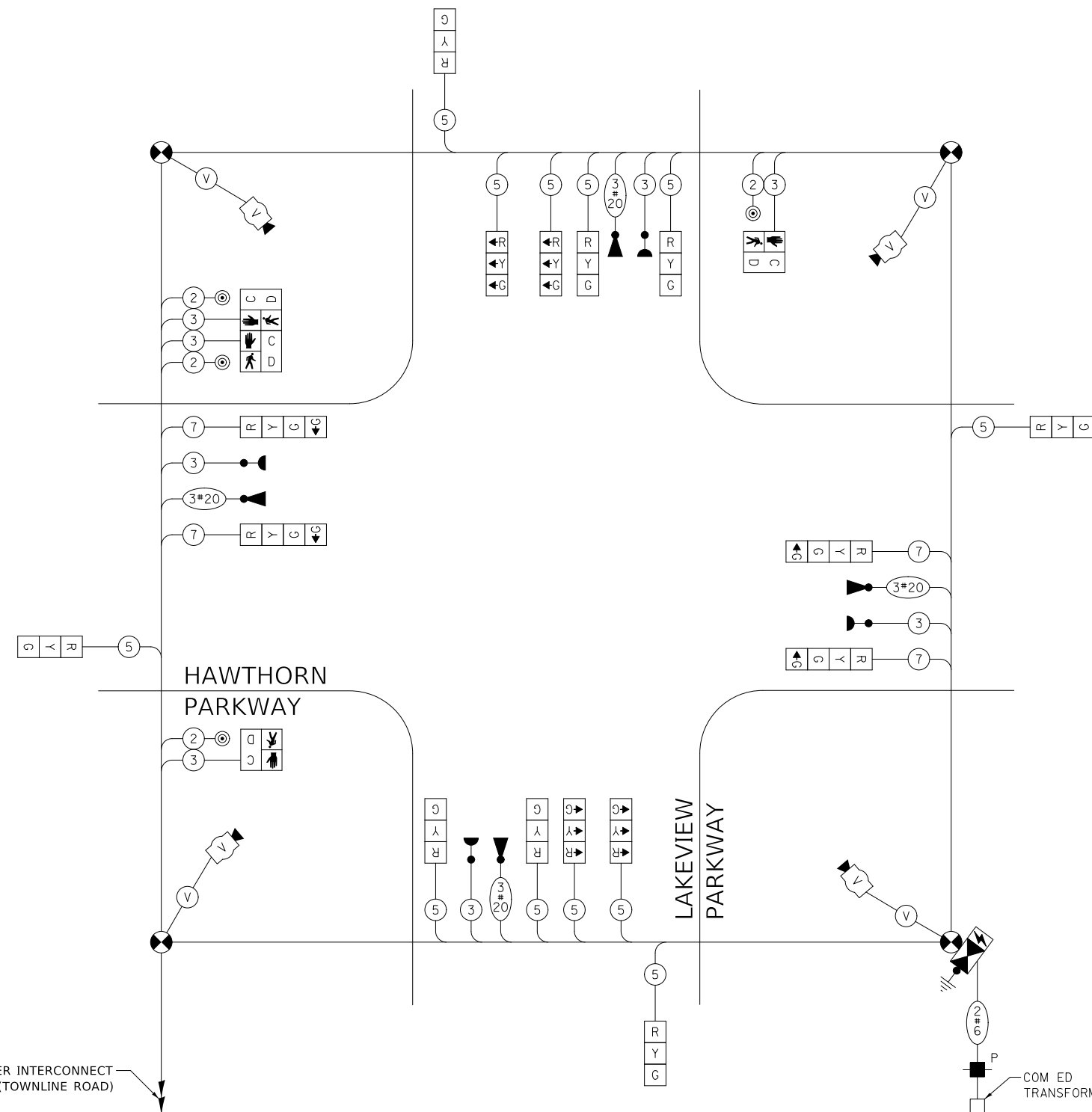
DESIGNED - LEP	REVISED -
DRAWN - LEP	REVISED -
CHECKED - JJE	REVISED -
DATE - 11/02/2022	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

LAKEVIEW PARKWAY IMPROVEMENT TEMPORARY CABLE PLAN AND SEQUENCES

SHEET 1 OF 1 SHEETS STA TO STA

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2419	98-00026-02-WR	LAKE	210	114
CONTRACT NO 61115				
ILLINOIS		FED AID PROJECT		



TEMPORARY CABLE PLAN (NOT TO SCALE)

TS 6877
 ECON 160

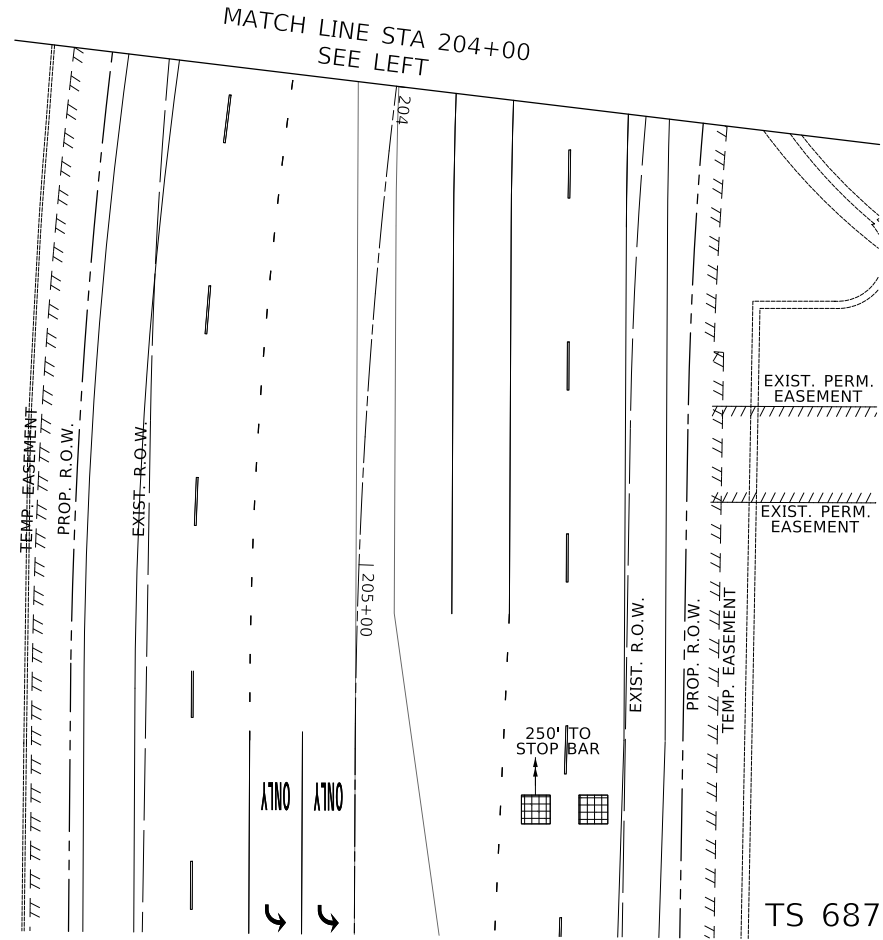
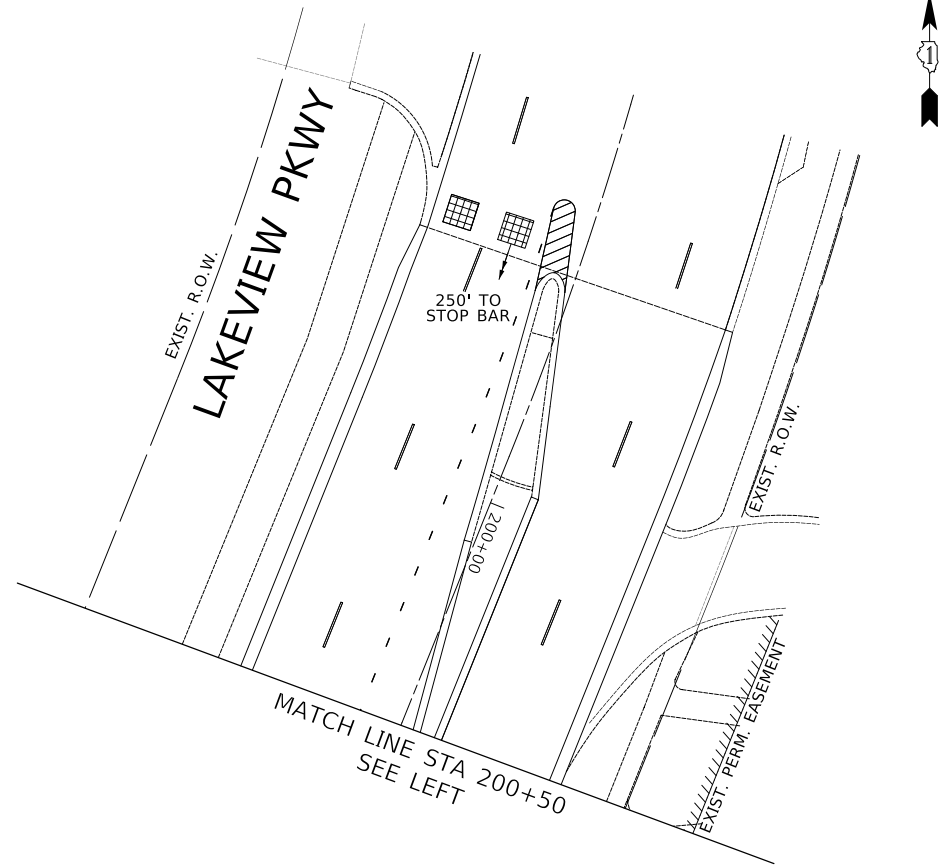
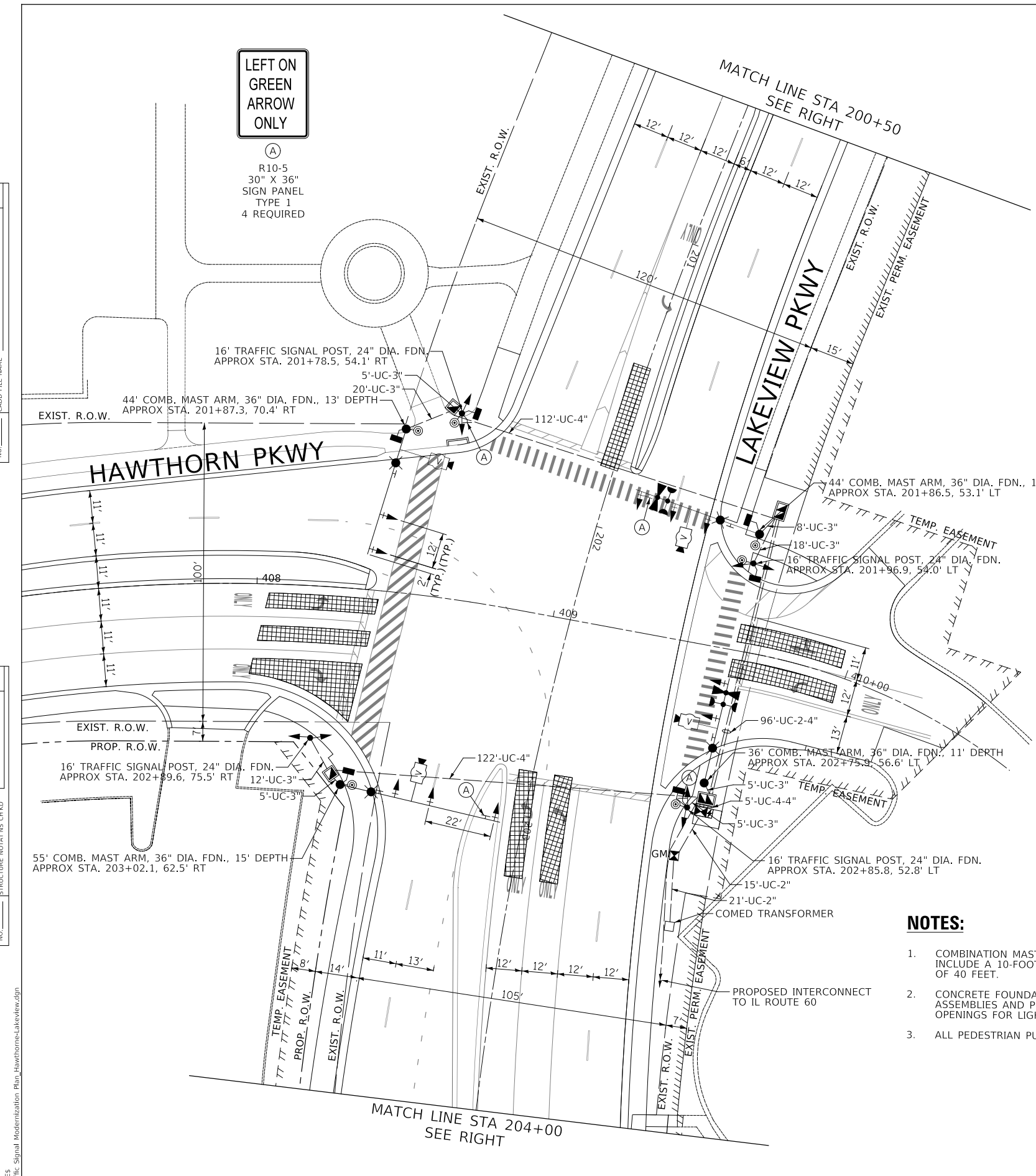


LEFT ON GREEN
ARROW
ONLY

(A)
R10-5
30" X 36"
SIGN PANEL
TYPE 1
4 REQUIRED

DATE	
BY	
PLAN	
NO.	
NO.	
NO.	
NO.	
NO.	
NO.	
NO.	

DATE	
BY	
PROFILE	
NO.	
NO.	
NO.	
NO.	
NO.	
NO.	
NO.	



NOTES:

1. COMBINATION MAST ARM ASSEMBLIES AND POLES SHALL INCLUDE A 10-FOOT MAST ARM AT A MOUNTING HEIGHT OF 40 FEET.
2. CONCRETE FOUNDATIONS FOR COMBINATION MAST ARM ASSEMBLIES AND POLES SHALL INCLUDE TWO ADDITIONAL OPENINGS FOR LIGHTING CABLES.
3. ALL PEDESTRIAN PUSH-BUTTONS SHALL BE APS.

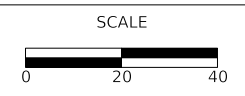
MODEL: SH06L0M005
FILE NAME: ...112_Traffic Signal Modernization Plan_Hawthorne-Lakeview.dgn



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DRAWN -	LEP	REVISED -	
CHECKED -	JJE	REVISED -	
DATE -	11/02/2022	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



LAKEVIEW PARKWAY IMPROVEMENT
TRAFFIC SIGNAL MODERNIZATION PLAN
LAKEVIEW PARKWAY AND HAWTHORNE PARKWAY

SHEET 1 OF 1 SHEETS STA TO STA

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
2419	98-00026-02-WR	LAKE	210	115
CONTRACT NO 61115				
ILLINOIS FED AID PROJECT				

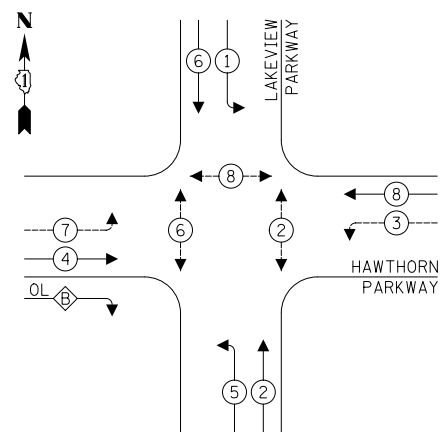
TS 6877
ECON 160

PLAN	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	ALIGNMENT CHECKED	
	STRUCTURE NOTATION CURVED	
	NOTE BOOK NO.	
	BY	

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	ALIGNMENT CHECKED	
	STRUCTURE NOTATION CURVED	
	NOTE BOOK NO.	
	BY	

MODEL: SHODLNAME
FILE NAME: ...13_Cable Plan and Sequence_Hawthorne-Lakeview.dgn

PROPOSED CONTROLLER SEQUENCE



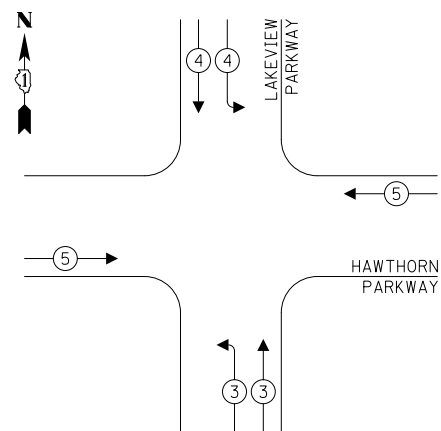
LEGEND:

- ← * → PROTECTED PHASE
- ← * - - - PROTECTED/PERMITTED PHASE
- ← * → PEDESTRIAN PHASE
- ← * OL → OVERLAP

RIGHT TURN OVERLAP PHASE DESIGNATION:

$$\text{OVERLAP LETTER } B = \frac{\text{PERMISSIVE PHASE}}{4} + \frac{\text{PROTECTED PHASE}}{5}$$

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	18	11	50	99.0
(YELLOW)	18	20	5	18.0
(GREEN)	18	12	45	97.2
PROTECTIVE ARROW	12	10	10	12.0
PED. SIGNAL	6	20	100	120.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	-	-	-
TOTAL =				471.2

ENERGY COSTS TO:

VILLAGE OF VERNON HILLS
290 EVERGREEN DRIVE
VERNON HILLS, IL 60061

ENERGY SUPPLY: CONTACT: XXXX
PHONE: XXXX
COMPANY: COMED
ACCOUNT NUMBER: ---

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Two Pierce Place, Suite 1400
Itasca, Illinois 60143
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DESIGNED -	LEP	REVISED -	
DRAWN -	LEP	REVISED -	
CHECKED -	JJE	REVISED -	
DATE -	11/02/2022	REVISED -	

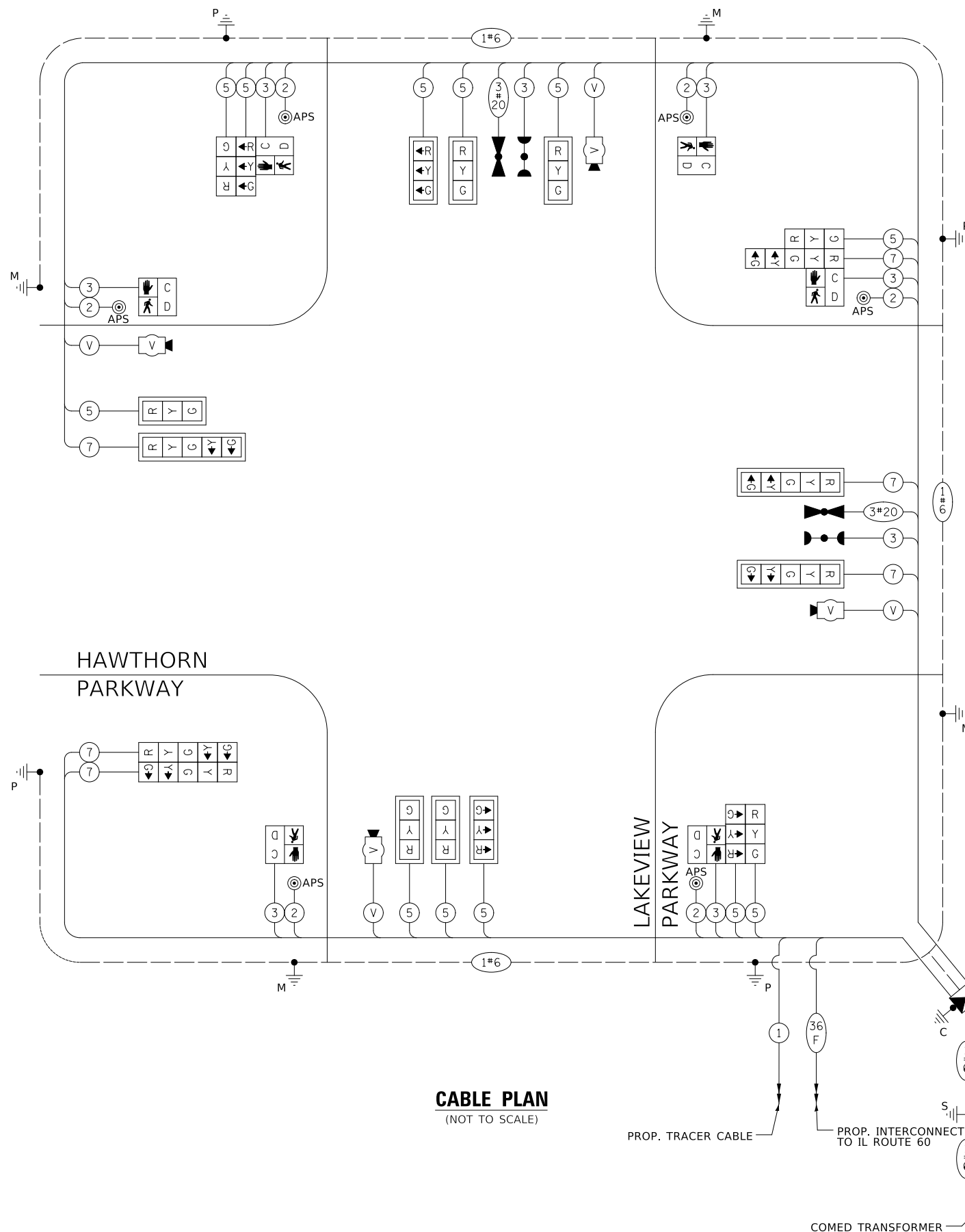
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LAKEVIEW PARKWAY IMPROVEMENT
CABLE PLAN AND SEQUENCES
LAKEVIEW PARKWAY AND HAWTHORNE PARKWAY**

SHEET 1 OF 1 SHEETS STA TO STA

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
2419	98-00026-02-WR	LAKE	210	116
CONTRACT NO 61115				
ILLINOIS FED AID PROJECT				

TS 6877
ECON 160



CABLE PLAN
(NOT TO SCALE)

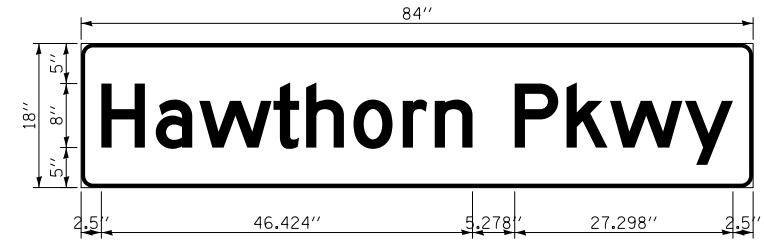
PROP. TRACER CABLE

PROP. INTERCONNECT TO IL ROUTE 60

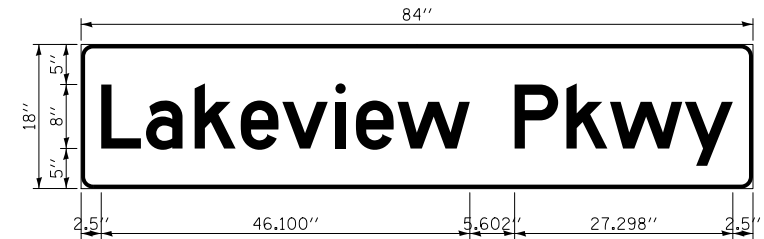
COMED TRANSFORMER

SCHEDULE OF QUANTITIES

PAY ITEM	UNIT	QNTY.
SIGN PANEL - TYPE 1	SQ FT	30
SIGN PANEL - TYPE 2	SQ FT	42
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	36
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	78
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	446
HANDHOLE	EACH	2
DOUBLE HANDHOLE	EACH	2
TRANSCEIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1064
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1388
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2365
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1028
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	66
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	745
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	4
CONCRETE FOUNDATION, TYPE A	FOOT	20
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	7
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
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	6
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	10
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 36 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 44 FT.	EACH	2
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 55 FT.	EACH	1
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	8
REMOVE EXISTING DOUBLE HANDHOLE	EACH	3
REMOVE EXISTING CONCRETE FOUNDATION	EACH	10
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	283
FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET (SPECIAL)	EACH	1
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
VIDEO VEHICLE DETECTION SYSTEM, SINGLE APPROACH	EACH	4
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	6
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	10.5	TYPE 2	ZZ	2



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	10.5	TYPE 2	ZZ	2

PLAN	SURVEYED	DATE
	PLOTTED	BY
NOTE BOOK NO.	ALIGNMENT CHECKED	
	ASD FILE NAME	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
NOTE BOOK NO.	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	

MODEL: SH06LNAME5
FILE NAME: ...112_mast Arm Mounted Street Name Signs_hawthorn-lakeview.dgn



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Itasca, Illinois 60143
Tel: 630.773.3900 Fax: 630.773.3975
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DRAWN - LEP	REVISED -
CHECKED - JJE	REVISED -
DATE - 11/02/2022	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LAKEVIEW PARKWAY IMPROVEMENT
MAST ARM MOUNTED STREET NAME SIGNS
AND SCHEDULE OF QUANTITIES**

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
2419	98-00026-02-WR	LAKE	210	117
CONTRACT NO 61115				
		ILLINOIS	FED AID PROJECT	

SHEET 1 OF 1 SHEETS STA TO STA

TS 6877
ECON 160



REMOVAL AND RELOCATION NOTES:

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

- 1 EACH CONTROLLER AND CABINET (COMPLETE)
- 1 EACH UNINTERRUPTIBLE POWER SUPPLY
- 4 EACH STEEL MAST ARM ASSEMBLY AND POLE
- 3 EACH TRAFFIC SIGNAL POST
- 16 EACH 3-SECTION SIGNAL HEAD
- 4 EACH 5-SECTION SIGNAL HEAD
- 12 EACH SIGNAL BACKPLATES
- 3 EACH PEDESTRIAN PUSH-BUTTON
- 4 EACH PEDESTRIAN SIGNAL HEAD
- 1 EACH SERVICE INSTALLATION

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SHALL REMAIN THE PROPERTY OF VILLAGE OF VERNON HILLS, AND SHALL BE DELIVERED BY THE CONTRACTOR TO THE VILLAGE AS PER THE SPECIAL PROVISIONS.

- 4 EACH LIGHT DETECTOR
- 1 EACH LIGHT DETECTOR AMPLIFIER

LEFT ON GREEN ARROW ONLY

- (A) R10-5 30" X 36" SIGN PANEL TYPE 1 4 REQUIRED

REMOVAL AND RELOCATION NOTES:

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND RELOCATED TO THE TEMPORARY TRAFFIC SIGNAL INSTALLATION AND RESTORED TO OPERATION TO THE SATISFACTION OF THE ENGINEER AND LCDOT. IF ANY EQUIPMENT IS DAMAGED DURING RELOCATION, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPLACE THE EQUIPMENT AT NO ADDITIONAL COST TO THE CONTRACT. UPON REMOVAL OF THE TEMPORARY TRAFFIC SIGNAL, THIS EQUIPMENT SHALL BE EITHER BE RETURNED TO LCDOT, OR RELOCATED TO THE PROPOSED TRAFFIC SIGNAL INSTALLATION AS NOTED BELOW.

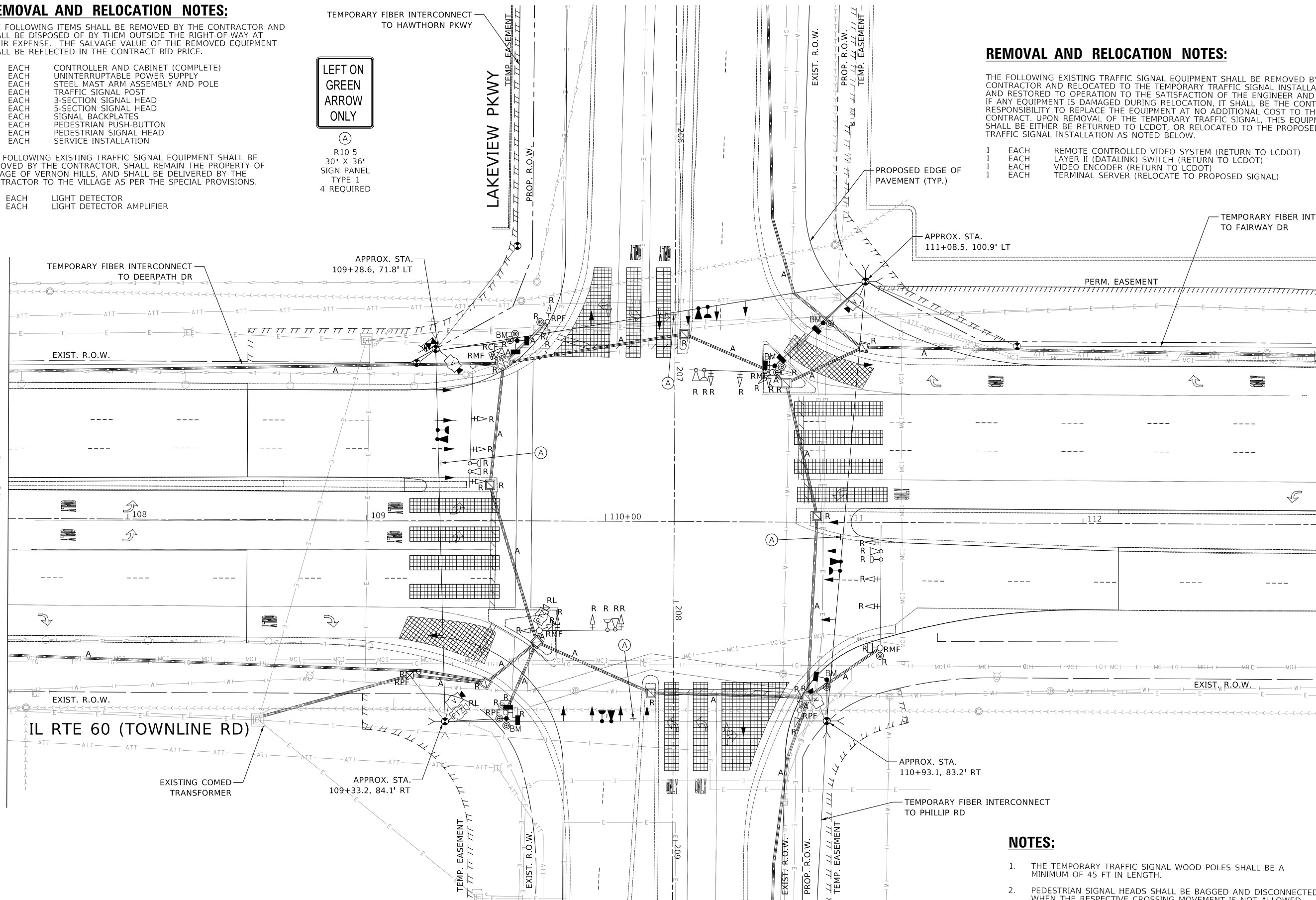
- 1 EACH REMOTE CONTROLLED VIDEO SYSTEM (RETURN TO LCDOT)
- 1 EACH LAYER II (DATALINK) SWITCH (RETURN TO LCDOT)
- 1 EACH VIDEO ENCODER (RETURN TO LCDOT)
- 1 EACH TERMINAL SERVER (RELOCATE TO PROPOSED SIGNAL)

PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNED	
	CHECKED	
	BY	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	BY	
	NO.	

MATCH LINE STA 107+50
SEE SHEET NO 119

MATCH LINE STA 113+00
SEE SHEET NO 119



NOTES:

- THE TEMPORARY TRAFFIC SIGNAL WOOD POLES SHALL BE A MINIMUM OF 45 FT IN LENGTH.
- PEDESTRIAN SIGNAL HEADS SHALL BE BAGGED AND DISCONNECTED WHEN THE RESPECTIVE CROSSING MOVEMENT IS NOT ALLOWED.

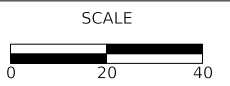
TS 6875
ECON 160



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DATE	- 11/02/2022	REVISED	-

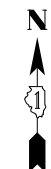
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**



**LAKEVIEW PARKWAY IMPROVEMENT
TEMPORARY TRAFFIC SIGNAL AND REMOVAL PLAN (SHEET 1 OF 2)
IL ROUTE 60 (TOWNLINE ROAD) AND LAKEVIEW PARKWAY**

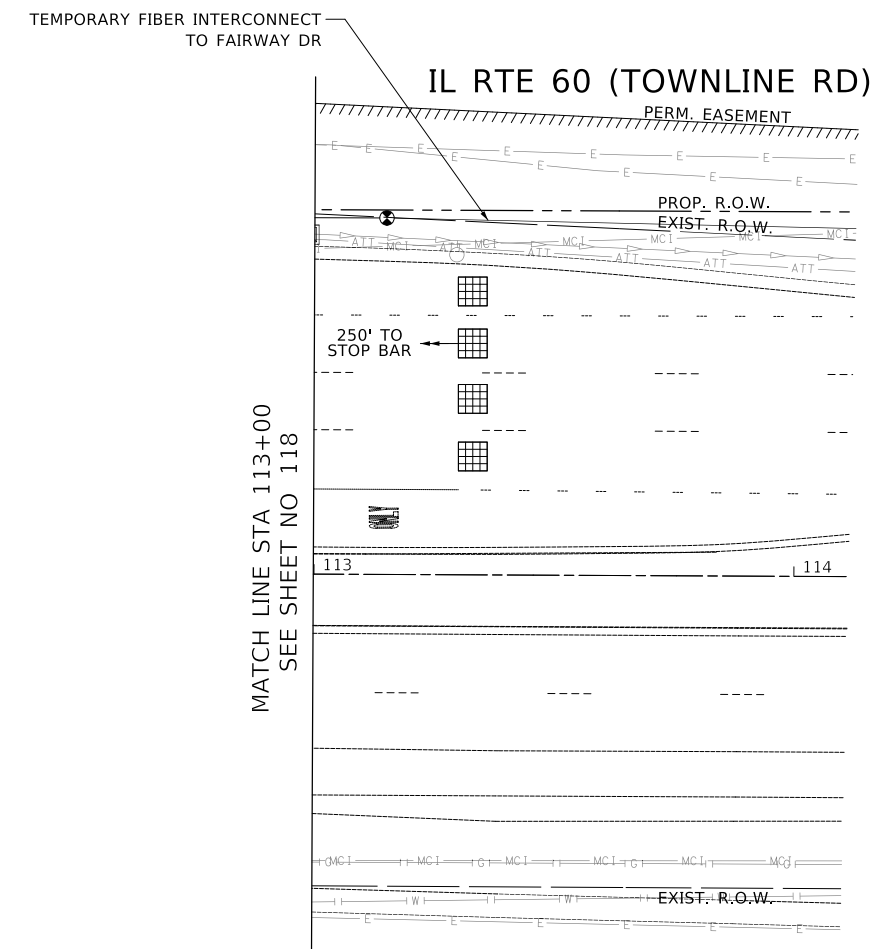
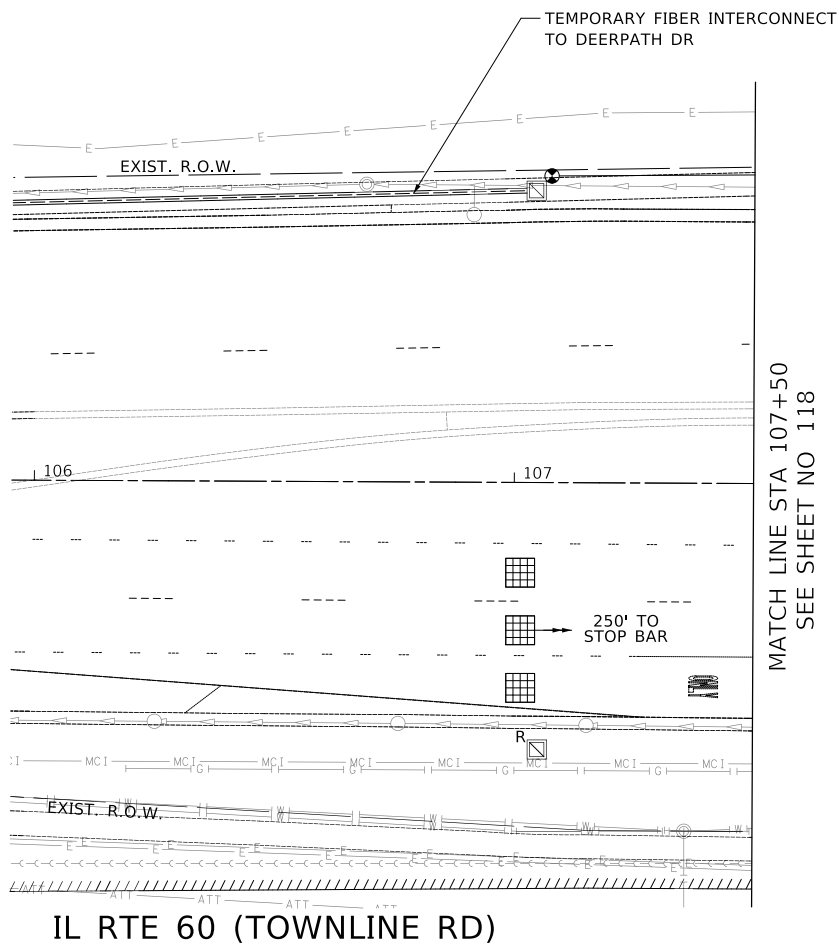
FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
2419	98-00026-02-WR	LAKE	210	118
CONTRACT NO 61115				
ILLINOIS FED AID PROJECT				

MODEL: SH06LNAME5
FILE NAME: ...135_Temporary Traffic Signal and Removal Plan_IL_60-Lakeview Stt_1.dgn



PLAN	SURVEYED	BY	DATE
	PLOTTED		
NOTE BOOK NO.	ALIGNMENT CHECKED		
	CADD FILE NAME		

PROFILE	SURVEYED	BY	DATE
	GRADES CHECKED		
NOTE BOOK NO.	STRUCTURE NOTATIONS CHECKED		



MODEL: SH06DELNAME5
FILE NAME: ...110_Temporary Traffic Signal and Removal Plan_IL_60-Lakeview Sht 2.dgn



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CHECKED	-	JJE	REVISED	-
DATE	-	11/02/2022	REVISED	-

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**LAKEVIEW PARKWAY IMPROVEMENT
TEMPORARY TRAFFIC SIGNAL AND REMOVAL PLAN (SHEET 2 OF 2)
IL ROUTE 60 (TOWNLINE ROAD) AND LAKEVIEW PARKWAY**

SHEET 2 OF 2 SHEETS STA TO STA

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2419	98-00026-02-WR	LAKE	210	119
ILLINOIS FED AID PROJECT			CONTRACT NO 61115	

TS 6875
ECON 160



NOTES:

1. PEDESTRIAN SIGNAL HEADS SHALL BE BAGGED AND DISCONNECTED WHEN THE RESPECTIVE CROSSING MOVEMENT IS NOT ALLOWED.

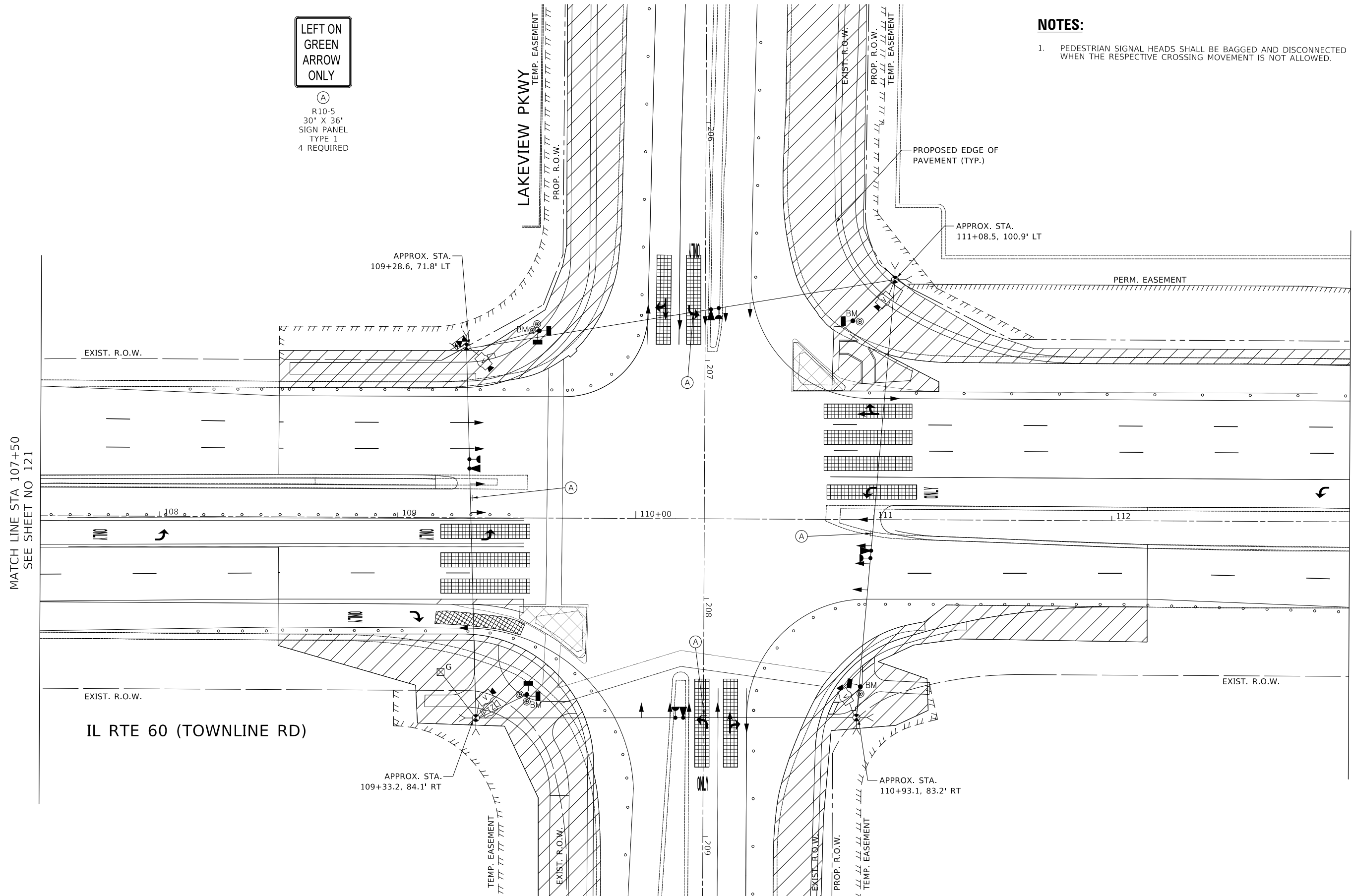
LEFT ON GREEN
ARROW
ONLY

(A)
R10-5
30" X 36"
SIGN PANEL
TYPE 1
4 REQUIRED

PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNED	
	CHECKED	
	BY	
	DATE	
	NO.	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES	
	CHECKED	
	BY	
	DATE	
	NO.	
	NO.	

MODEL: S:\MODEL\NAME\...
FILE NAME: ...132A.MXD 01 Temporary Traffic Signal Staging Plan_IL 60-Lakeview Sht 1.dgn



MATCH LINE STA 107+50
SEE SHEET NO 121

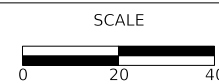
MATCH LINE STA 113+00
SEE SHEET NO 121



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CHECKED - JJE	REVISED -
DATE - 11/02/2022	REVISED -

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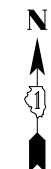


**LAKEVIEW PARKWAY IMPROVEMENT
TEMPORARY TRAFFIC SIGNAL PLAN - MOT STAGE 1
IL ROUTE 60 (TOWNLINE ROAD) AND LAKEVIEW PARKWAY**

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
2419	98-00026-02-WR	LAKE	210	120
CONTRACT NO 61115				
ILLINOIS FED AID PROJECT				

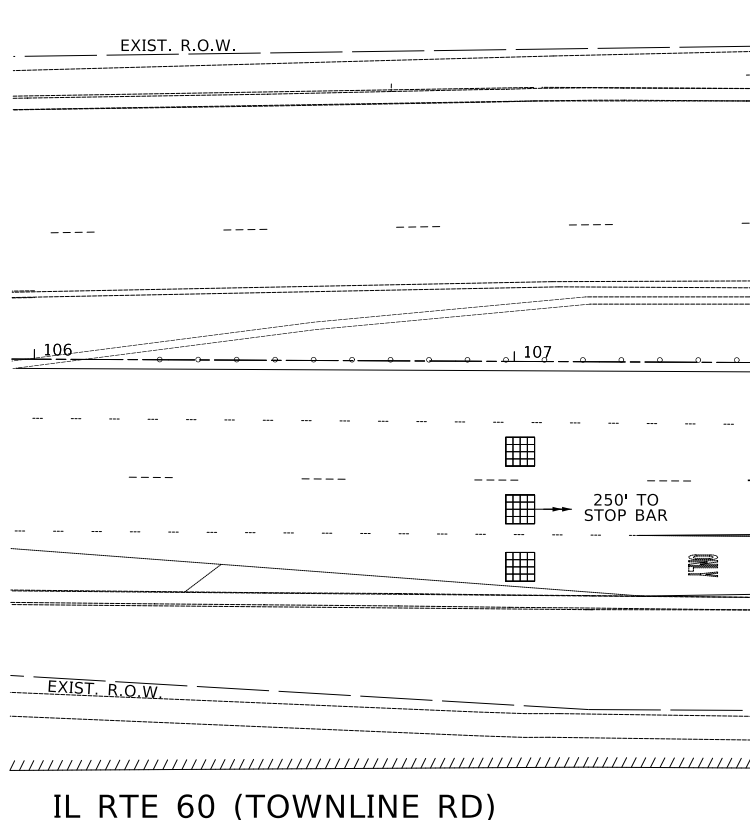
TS 6875
ECON 160

SHEET 1 OF 2 SHEETS STA TO STA

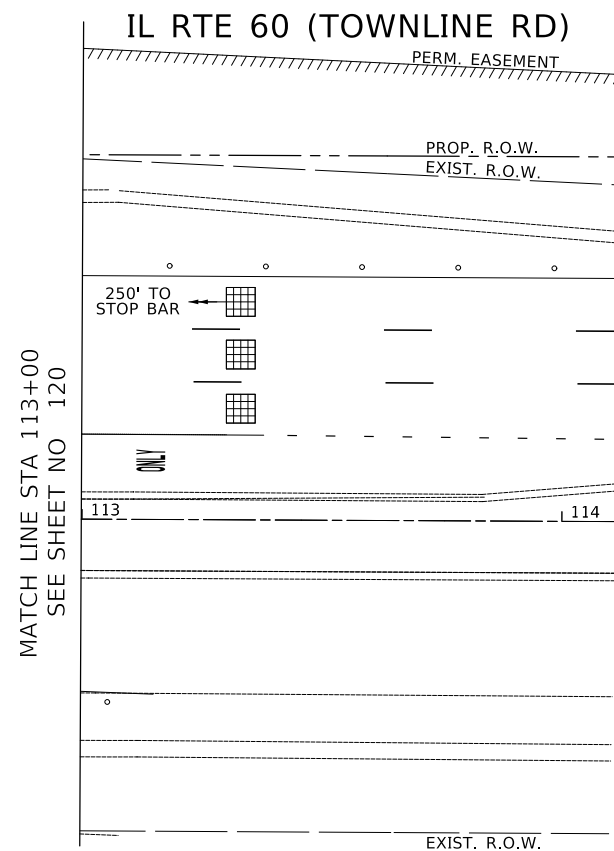


PLAN	SURVEYED	DATE
NOTE BOOK NO.	PLOTTED	
	ALIGNED	
	CHECKED	
	CAD FILE NAME	

PROFILE	SURVEYED	DATE
NOTE BOOK NO.	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	



MATCH LINE STA 107+50
SEE SHEET NO 120



MATCH LINE STA 113+00
SEE SHEET NO 120

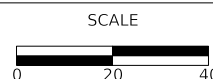
MODEL: SHODELMAMES
FILE NAME: ...112A_PLOT 01_Temporary Traffic Signal Staging Plan_11_60-Lakeview Sht 2.dgn



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**LAKEVIEW PARKWAY IMPROVEMENT
TEMPORARY TRAFFIC SIGNAL PLAN – MOT STAGE 1
IL ROUTE 60 (TOWNLINE ROAD) AND LAKEVIEW PARKWAY**

SHEET 2 OF 2 SHEETS STA TO STA

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
2419	98-00026-02-WR	LAKE	210	121
			CONTRACT NO 61115	
	ILLINOIS	FED AID PROJECT		

TS 6875
ECON 160



NOTES:

- 1. PEDESTRIAN SIGNAL HEADS SHALL BE BAGGED AND DISCONNECTED WHEN THE RESPECTIVE CROSSING MOVEMENT IS NOT ALLOWED.

**LEFT ON GREEN
ARROW
ONLY**

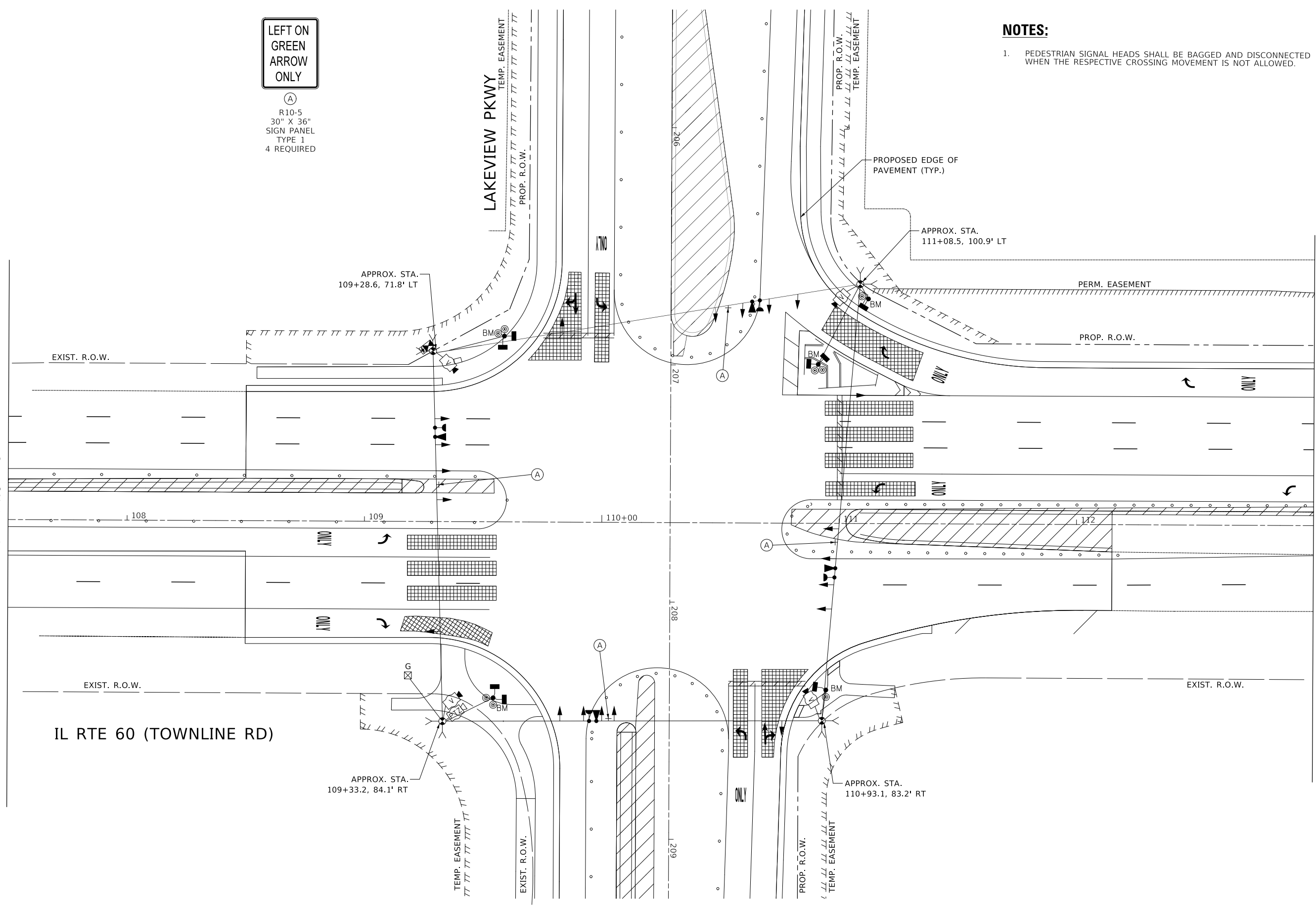
(A)
R10-5
30" X 36"
SIGN PANEL
TYPE 1
4 REQUIRED

PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNED	
	CHECKED	
	BY	
	NO.	
	DATE	

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES	
	CHECKED	
	BY	
	NO.	
	DATE	

MATCH LINE STA 107+50
SEE SHEET NO 123

MATCH LINE STA 113+00
SEE SHEET NO 123



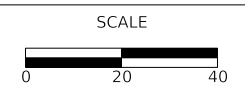
MODEL: SH06LNAMEES
FILE NAME: ...1128.MDT 02 Temporary Traffic Signal Staging Plan_IL_60-Lakeview Sht 1.dgn



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DATE	-	11/02/2022	REVISED	-	

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**LAKEVIEW PARKWAY IMPROVEMENT
TEMPORARY TRAFFIC SIGNAL PLAN - MOT STAGE 2
IL ROUTE 60 (TOWNLINE ROAD) AND LAKEVIEW PARKWAY**

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
2419	98-00026-02-WR	LAKE	210	122
CONTRACT NO 61115				
ILLINOIS FED AID PROJECT				

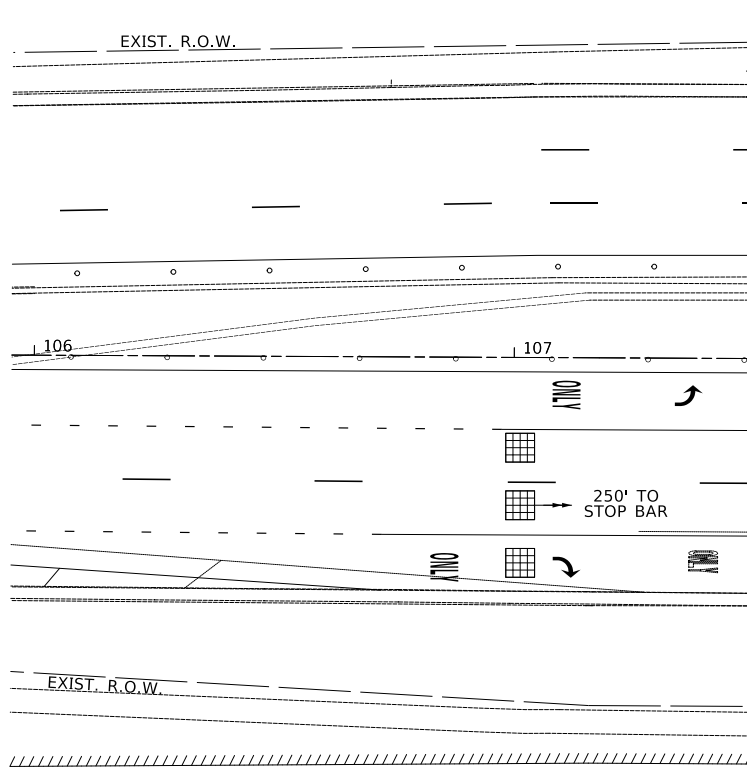
TS 6875
ECON 160



PLAN	SURVEYED	BY	DATE
	PLOTTED		
	ALIGNED CHECKED		
	FIELD FILE NAME		
NOTE BOOK NO.			

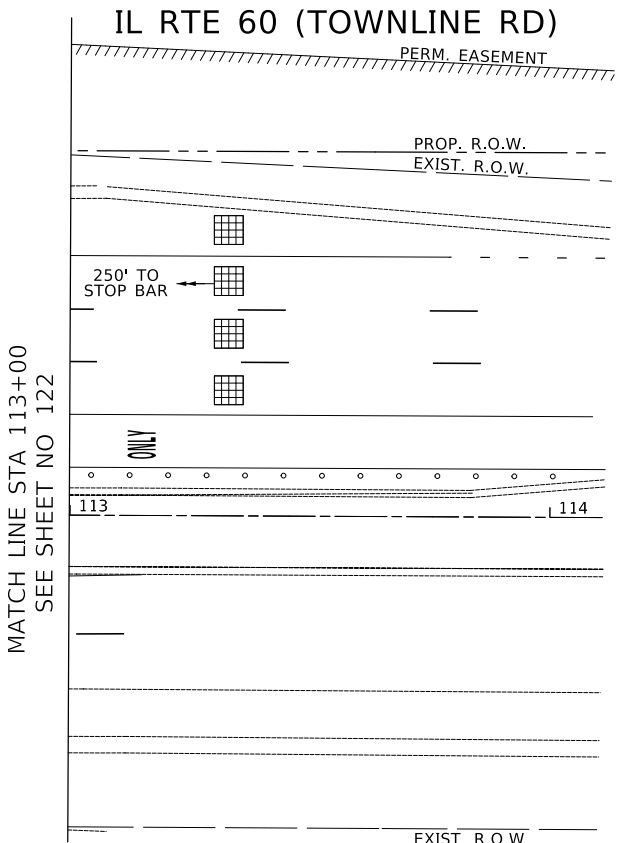
PROFILE	SURVEYED	BY	DATE
	GRADES CHECKED		
	STRUCTURE NOTATIONS CHECKED		
	NO.		

MODEL: SH0DELNAMRES
 FILE NAME: ...1188.MDT 02 Temporary Traffic Signal Staging Plan_IL 60-Lakeview Sht 2.dgn



MATCH LINE STA 107+50
 SEE SHEET NO 122

IL RTE 60 (TOWNLINE RD)



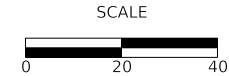
MATCH LINE STA 113+00
 SEE SHEET NO 122



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**LAKEVIEW PARKWAY IMPROVEMENT
 TEMPORARY TRAFFIC SIGNAL PLAN - MOT STAGE 2
 IL ROUTE 60 (TOWNLINE ROAD) AND LAKEVIEW PARKWAY**

SHEET 2 OF 2 SHEETS STA TO STA

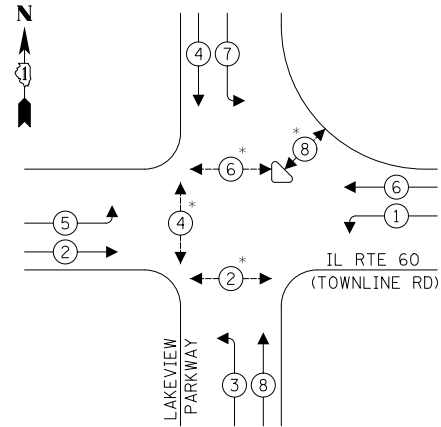
FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
2419	98-00026-02-WR	LAKE	210	123
CONTRACT NO 61115				
ILLINOIS		FED AID PROJECT		

TS 6875
 ECON 160

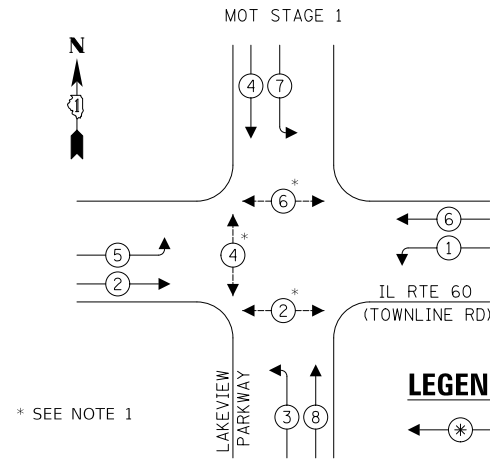
PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNED	
	CHECKED	
	BY	
	NO.	

PROFILE	SURVEYED	DATE
	GRADES	
	CHECKED	
	STRUCTURE	
	NOTATION	
	BY	
	NO.	

PROPOSED TEMPORARY CONTROLLER SEQUENCE

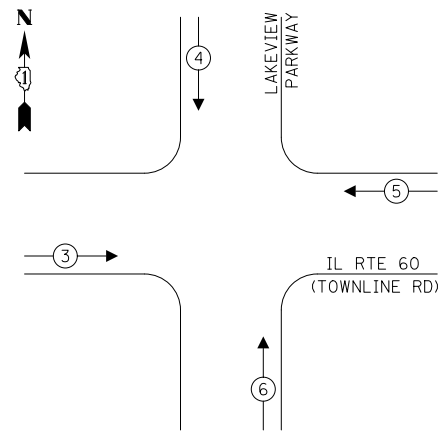


PROPOSED TEMPORARY CONTROLLER SEQUENCE



* SEE NOTE 1

PROPOSED TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE



LEGEND:

- ←* PROTECTED PHASE
- ←* PERMITTED PHASE
- ←* PEDESTRIAN PHASE
- ←* OL OVERLAP

NOTES:

1. PEDESTRIAN SIGNAL HEADS SHALL BE BAGGED AND DISCONNECTED, AND THE PHASE(S) DEACTIVATED, WHEN THE RESPECTIVE CROSSING MOVEMENT IS NOT ALLOWED.

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	-	10	10	-
PED. SIGNAL	4	20	100	80.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	-	-	-
TOTAL =				593.0

ENERGY COSTS TO:

VILLAGE OF VERNON HILLS
290 EVERGREEN DR.
VERNON HILLS, IL 60061

ENERGY SUPPLY: CONTACT: COMED
PHONE: 866-639-3532
COMPANY: COMED
ACCOUNT NUMBER: 08271-61008

CIVILTECH
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Itasca, Illinois 60143
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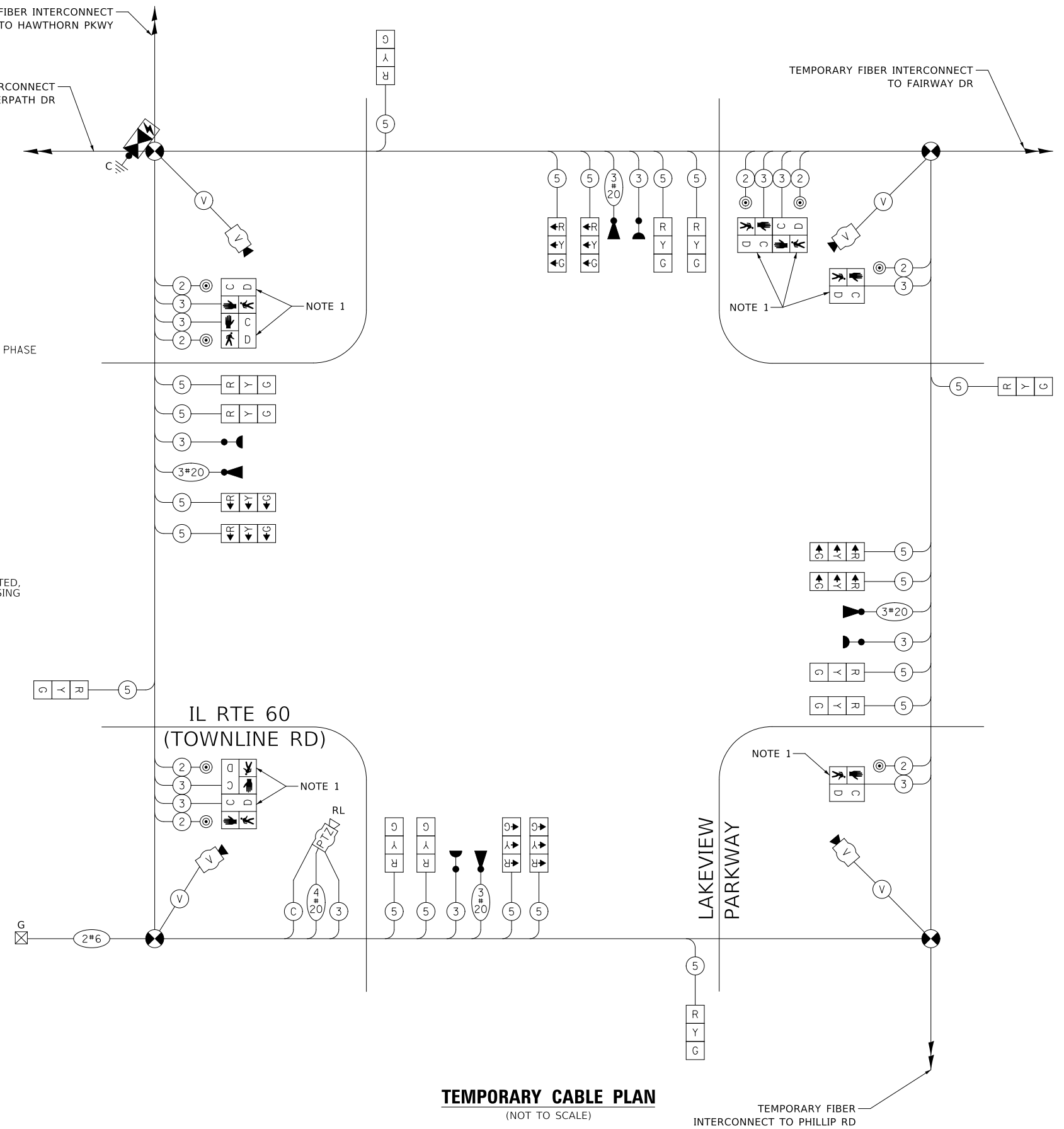
DESIGNED - AS	REVISED - 12/23/2022
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DATE - 11/02/2022	REVISED -

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**LAKEVIEW PARKWAY IMPROVEMENT
TEMPORARY CABLE PLAN AND SEQUENCES
IL ROUTE 60 (TOWNLINE ROAD) AND LAKEVIEW PARKWAY**

SHEET 1 OF 1 SHEETS STA TO STA

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
2419	98-00026-02-WR	LAKE	210	124
CONTRACT NO 61115				
ILLINOIS		FED AID PROJECT		

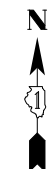


TEMPORARY CABLE PLAN
(NOT TO SCALE)

TEMPORARY FIBER INTERCONNECT TO PHILLIP RD

TS 6875
ECON 160

MODEL: SH06LNAME5 FILE NAME: ...17_Temporary Cable Plan and Sequences_IL_60-Lakeview.dgn



**LEFT ON GREEN
ARROW
ONLY**

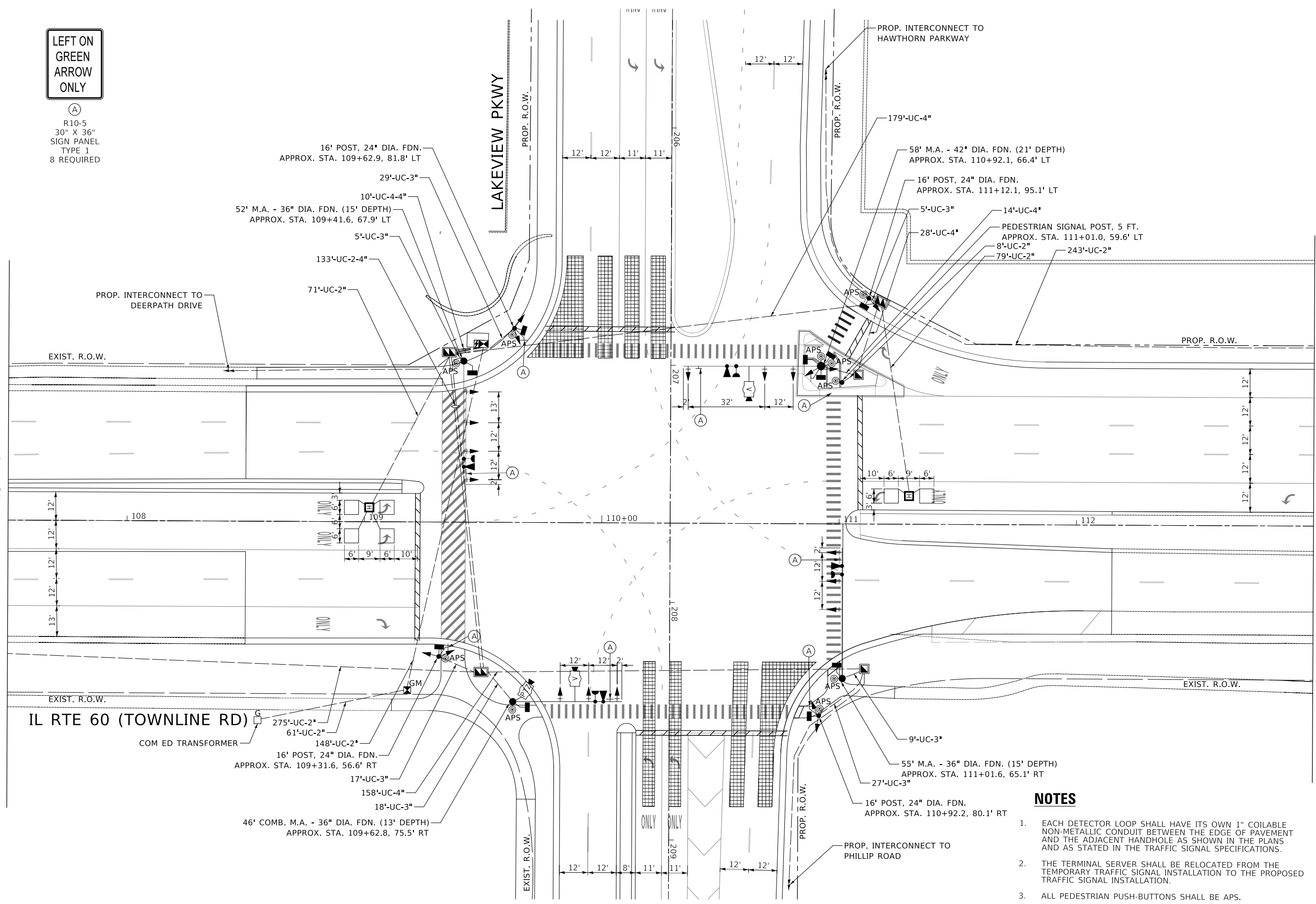
(A)
R10-5
30" X 36"
SIGN PANEL
TYPE 1
8 REQUIRED

PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNED	
	CHECKED	
	FILED	
	BY	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES	
	CHECKED	
	STRUCTURE	
	NOTATION	
	BY	
	NO.	

MATCH LINE STA 107+50
SEE SHEET NO 126

MATCH LINE STA 113+00
SEE SHEET NO 126



NOTES

1. EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN IN THE PLANS AND AS STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.
2. THE TERMINAL SERVER SHALL BE RELOCATED FROM THE TEMPORARY TRAFFIC SIGNAL INSTALLATION TO THE PROPOSED TRAFFIC SIGNAL INSTALLATION.
3. ALL PEDESTRIAN PUSH-BUTTONS SHALL BE APS.

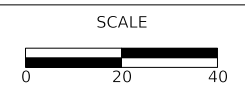
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DRAWN	-	AS	REVISED	-	01/27/2023
CHECKED	-	JJE	REVISED	-	
DATE	-	11/02/2022	REVISED	-	

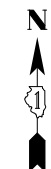
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DEPARTMENT OF TRANSPORTATION**



**LAKEVIEW PARKWAY IMPROVEMENT
TRAFFIC SIGNAL MODERNIZATION PLAN (SHEET 1 OF 2)
IL ROUTE 60 (TOWNLINE ROAD) AND LAKEVIEW PARKWAY**

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
2419	98-00026-02-WR	LAKE	210	125
CONTRACT NO 61115				
ILLINOIS FED AID PROJECT				

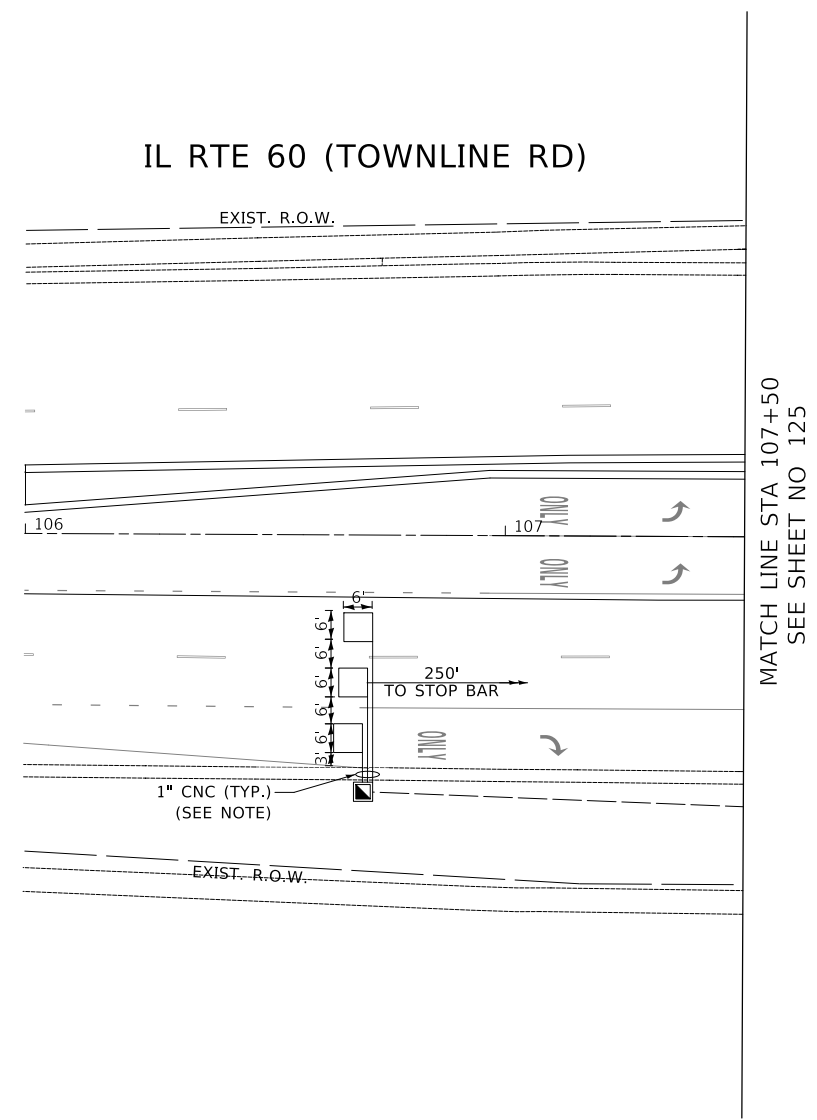
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FILE NAME: ...130_Traffic_Signal_Modernization_Plan_IL_60-Lakeview_Sht_1.dgn



PLAN	SURVEYED	BY	DATE
	PLOTTED		
NOTE BOOK NO.	ALIGNED		
	CHECKED		
	CADD FILE NAME		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
NOTE BOOK NO.	GRADES CHECKED		
	STRUCTURE NOTATIONS CHECKED		

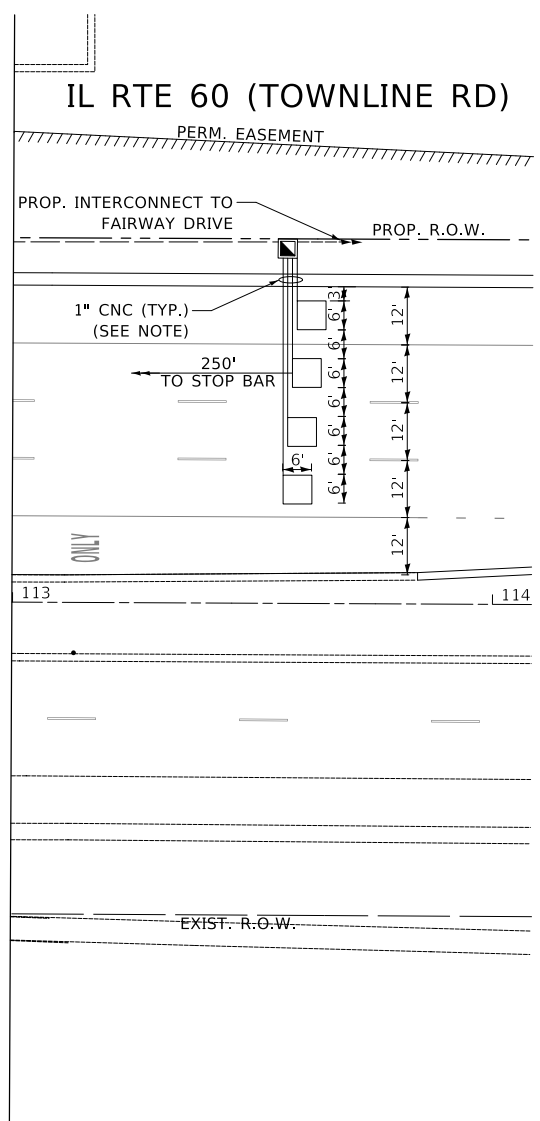
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FILE NAME: ...130_Traffic Signal Modernization Plan_IL 60-Lakeview Sht 2.dgn



MATCH LINE STA 107+50
SEE SHEET NO 125

NOTES

EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN IN THE PLANS AND AS STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.



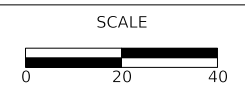
MATCH LINE STA 113+00
SEE SHEET NO 125



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DESIGNED	-	AS	REVISED	-
DRAWN	-	AS	REVISED	-
CHECKED	-	JJE	REVISED	-
DATE	-	11/02/2022	REVISED	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**



**LAKEVIEW PARKWAY IMPROVEMENT
TRAFFIC SIGNAL MODERNIZATION PLAN (SHEET 2 OF 2)
IL ROUTE 60 (TOWNLINE ROAD) AND LAKEVIEW PARKWAY**

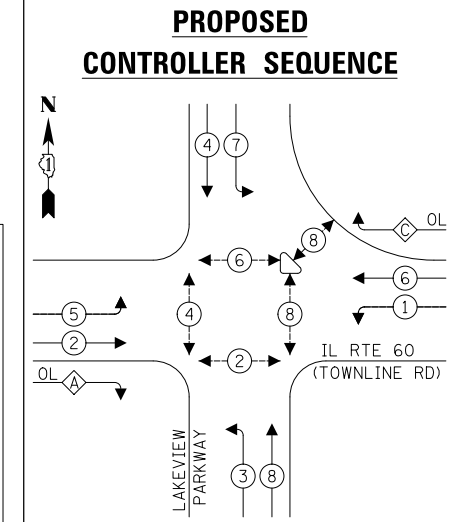
FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
2419	98-00026-02-WR	LAKE	210	126
CONTRACT NO 61115				
ILLINOIS		FED AID PROJECT		

TS 6875
ECON 160

SHEET 2 OF 2 SHEETS STA TO STA

DATE	
BY	
PLAN	
NO.	
NO.	
NO.	
NO.	
NO.	
NO.	
NO.	
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DATE	
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PROFILE	
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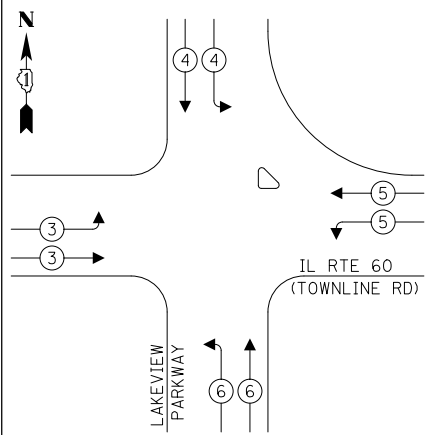
LEGEND:

- ⊙ * PROTECTED PHASE
- ⊙ * PROTECTED/PERMITTED PHASE
- ⊙ * PEDESTRIAN PHASE
- ⊙ OL OVERLAP

RIGHT TURN OVERLAP PHASE DESIGNATION:

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A	= 2 + 3	
C	= 6 + 7	

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	22	11	50	121.0
(YELLOW)	22	20	5	22.0
(GREEN)	22	12	45	118.8
PERMISSIVE ARROW	8	10	10	8.0
PED. SIGNAL	8	20	100	160.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	-	-	-
TOTAL =				704.8

ENERGY COSTS TO:

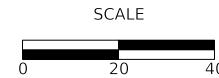
VILLAGE OF VERNON HILLS
290 EVERGREEN DR.
VERNON HILLS, IL 60061

ENERGY SUPPLY: CONTACT: COMED
PHONE: 866-639-3532
COMPANY: COMED
ACCOUNT NUMBER: ---

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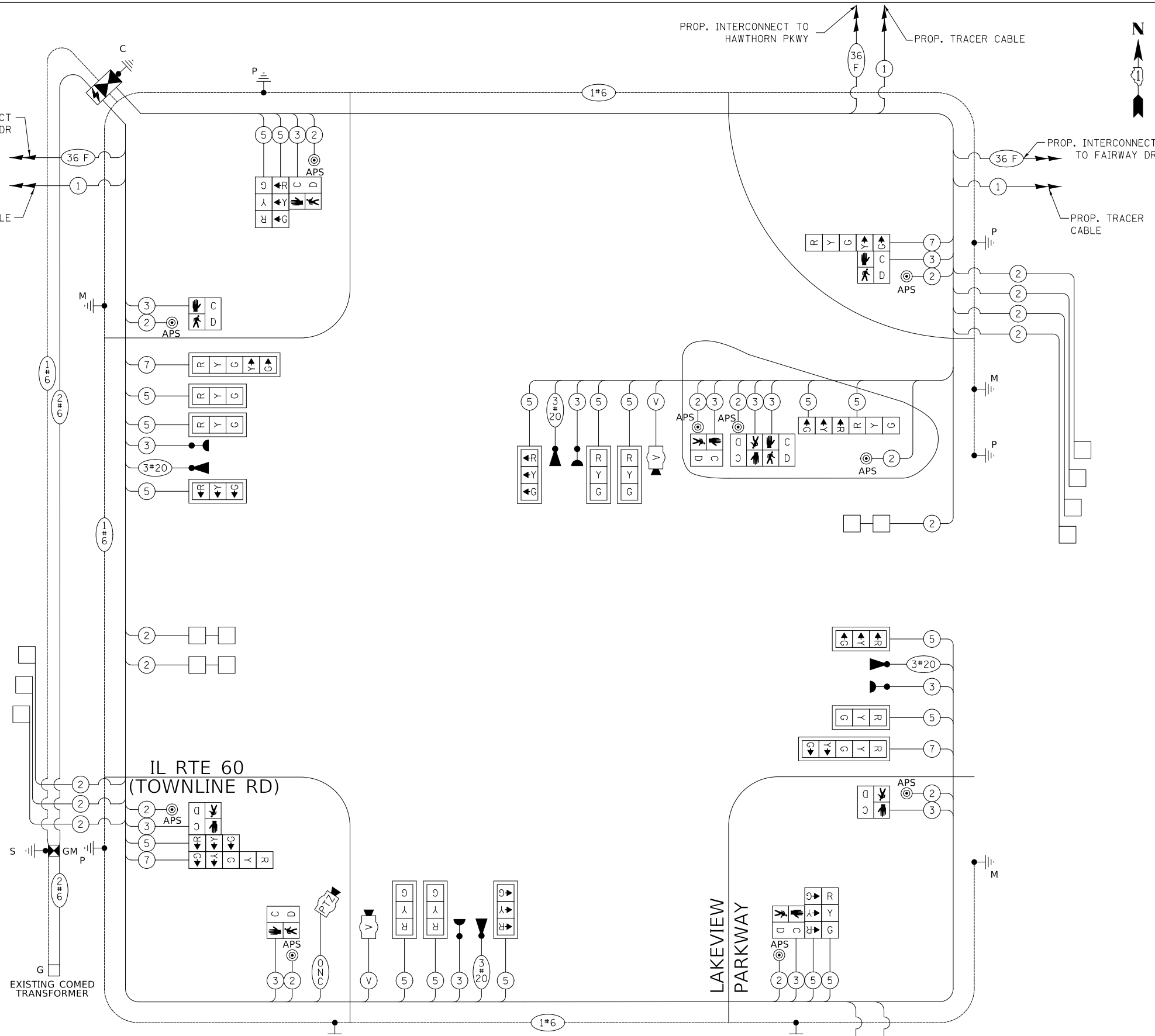
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DRAWN - AS	REVISED - 01/27/2023
CHECKED - JJE	REVISED -
DATE - 11/02/2022	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**



**LAKEVIEW PARKWAY IMPROVEMENT
CABLE PLAN AND SEQUENCES
IL ROUTE 60 (TOWNLINE ROAD) AND LAKEVIEW PARKWAY**

CABLE PLAN
(NOT TO SCALE)



PROP. INTERCONNECT TO PHILIP RD
PROP. TRACER CABLE

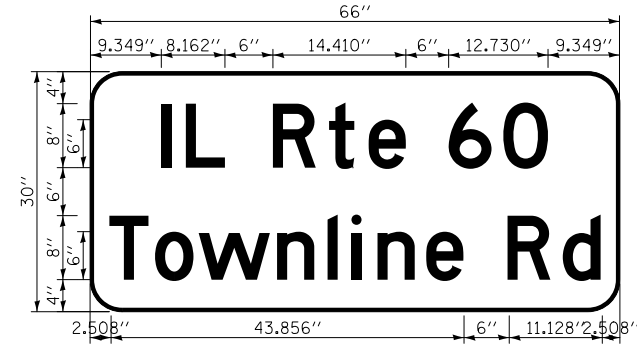
TS 6875
ECON 160

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2419	98-00026-02-WR	LAKE	210	127
CONTRACT NO 61115				
ILLINOIS FED AID PROJECT				

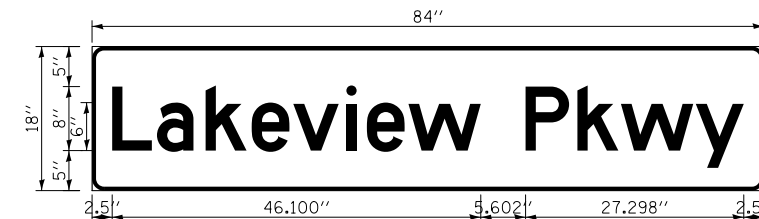
SHEET 1 OF 1 SHEETS STA TO STA

SCHEDULE OF QUANTITIES:

SIGN PANEL - TYPE 1	SQ FT	60
SIGN PANEL - TYPE 2	SQ FT	49
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	885
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	110
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	685
HANDHOLE	EACH	4
HEAVY-DUTY HANDHOLE	EACH	2
DOUBLE HANDHOLE	EACH	3
TRANSCEIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	2316
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	3526
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	4550
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	923
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	3756
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	238
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1223
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	4
STEEL MAST ARM ASSEMBLY AND POLE 52 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE 55 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE 58 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 46 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	20
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	43
CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	21
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	11
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	7
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	2
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	10
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	13
INDUCTIVE LOOP DETECTOR	EACH	10
DETECTOR LOOP, TYPE I	FOOT	465
LIGHT DETECTOR	EACH	4
LIGHT DETECTOR AMPLIFIER	EACH	1
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	2
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	12
REMOVE EXISTING DOUBLE HANDHOLE	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	9
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	1134
RELOCATE EXISTING REMOTE - CONTROLLED VIDEO SYSTEM (SPECIAL)	EACH	1
RELOCATE SWITCH	EACH	1
RELOCATE EXISTING VIDEO ENCODER, SPECIAL	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET (SPECIAL)	EACH	1
OUTDOOR RATED NETWORK CABLE	FOOT	211
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
REMOTE CONTROLLED VIDEO SYSTEM	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
PEDESTRIAN SIGNAL POST, 5 FT.	EACH	1
VIDEO VEHICLE DETECTION SYSTEM, SINGLE APPROACH	EACH	2
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	10
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	4
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	13.75	TYPE 2	ZZ	2



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	10.5	TYPE 2	ZZ	2

PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNED	
	CHECKED	
	CAD FILE NAME	
NOTE BOOK NO.		

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
NOTE BOOK NO.		

MODEL: SH0DELNAME5
FILE NAME: ...21_Mast Arm Mounted Street Signs_IL_60-Lakeview.dgn



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DATE - 11/02/2022	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LAKEVIEW PARKWAY IMPROVEMENT
MAST ARM MOUNTED STREET NAME SIGNS
IL ROUTE 60 (TOWNLINER ROAD) AND LAKEVIEW PARKWAY**

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
2419	98-00026-02-WR	LAKE	210	128
CONTRACT NO 61115				
ILLINOIS FED AID PROJECT				

TS 6875
ECON 160

SHEET 1 OF 1 SHEETS STA TO STA



REMOVAL AND RELOCATION NOTES:

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

- 3 EACH PEDESTRIAN PUSH BUTTON
- 1 EACH TRAFFIC SIGNAL POST

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND RELOCATED TO THE PROPOSED TRAFFIC SIGNAL INSTALLATION AND RESTORED TO OPERATION TO THE SATISFACTION OF THE ENGINEER AND LCDOT. IF ANY EQUIPMENT IS DAMAGED DURING RELOCATION, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPLACE THE EQUIPMENT AT NO ADDITIONAL COST TO THE CONTRACT.

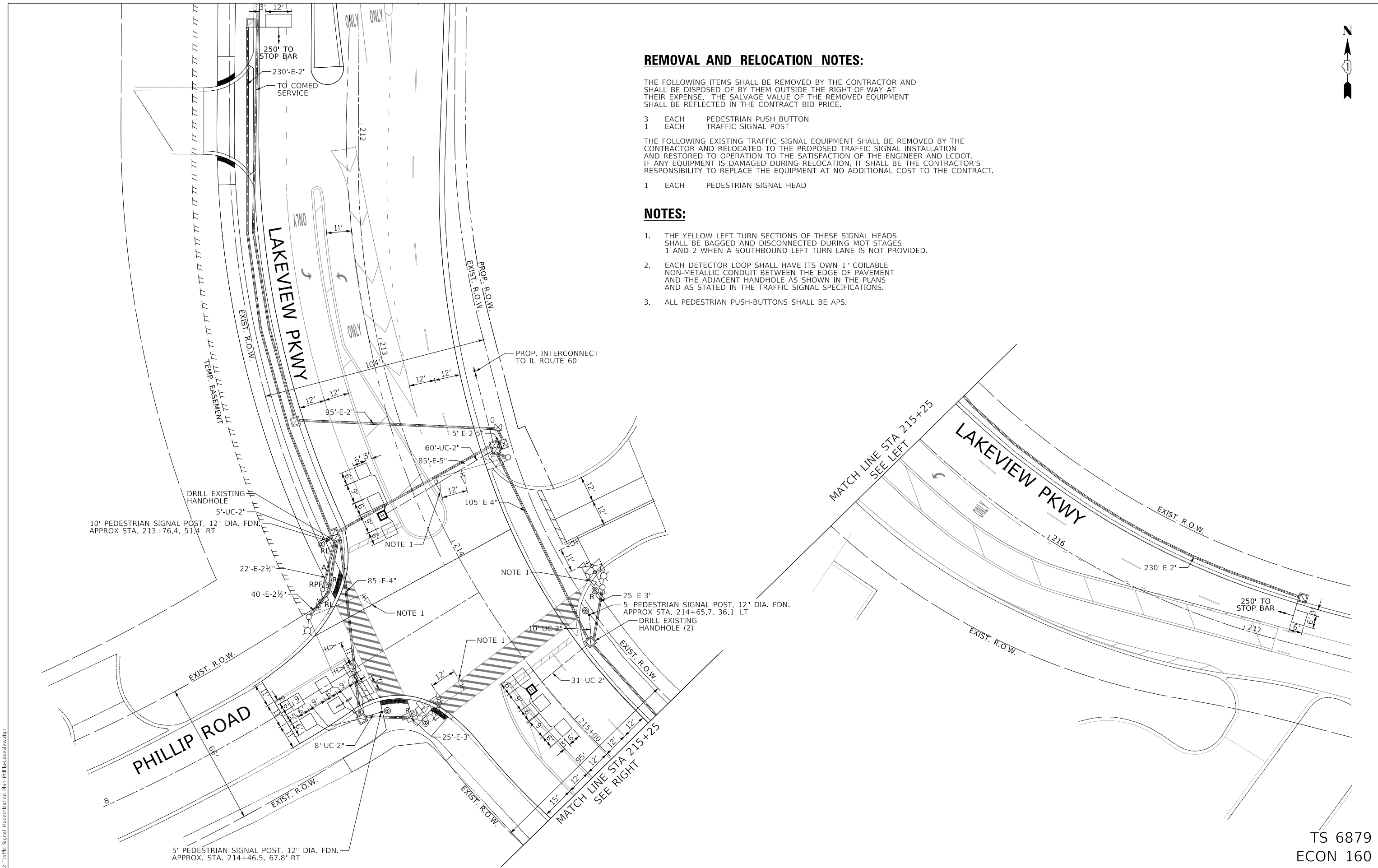
- 1 EACH PEDESTRIAN SIGNAL HEAD

NOTES:

1. THE YELLOW LEFT TURN SECTIONS OF THESE SIGNAL HEADS SHALL BE BAGGED AND DISCONNECTED DURING MOT STAGES 1 AND 2 WHEN A SOUTHBOUND LEFT TURN LANE IS NOT PROVIDED.
2. EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN IN THE PLANS AND AS STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.
3. ALL PEDESTRIAN PUSH-BUTTONS SHALL BE APS.

PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNED	
	CHECKED	
	BY	
	FILE NAME	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES	
	CHECKED	
	BY	
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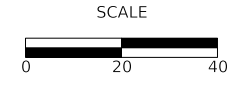
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DATE	-	11/02/2022	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



LAKEVIEW PARKWAY IMPROVEMENT
TRAFFIC SIGNAL MODERNIZATION PLAN
LAKEVIEW PARKWAY AND PHILLIP ROAD

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
2419	98-00026-02-WR	LAKE	210	129
CONTRACT NO 61115				
ILLINOIS FED AID PROJECT				

TS 6879
ECON 160

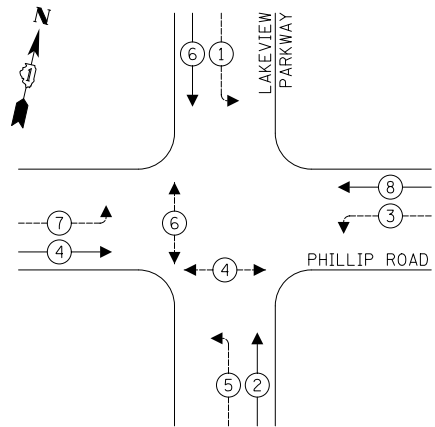
SHEET 1 OF 1 SHEETS STA TO STA

PLAN	SURVEYED	DATE
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	GRADES CHECKED	
	ALIGNMENT CHECKED	
	STRUCTURE NOTATIONS CHECKED	
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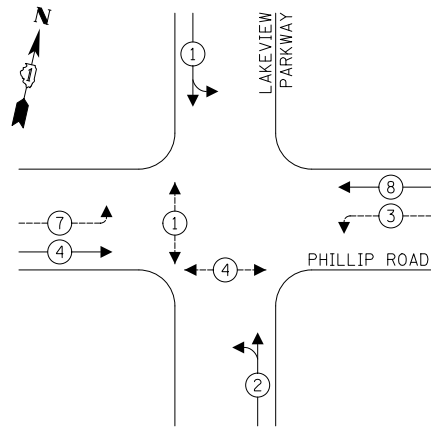
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	PLOTTED	
	GRADES CHECKED	
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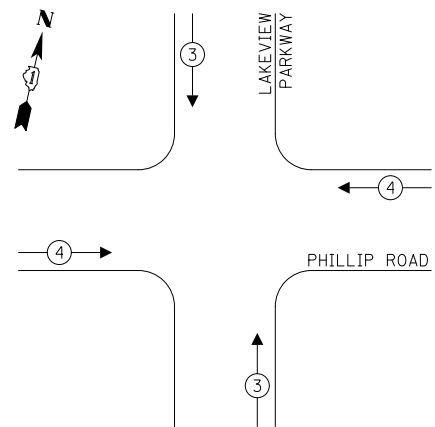
EXISTING CONTROLLER SEQUENCE



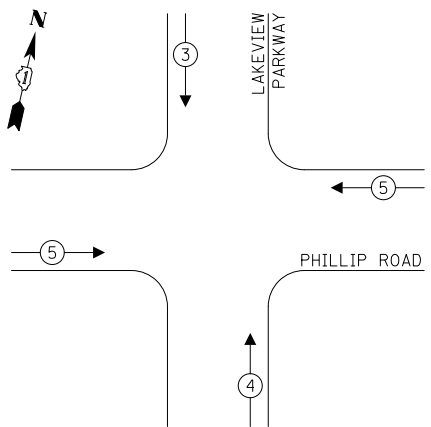
TEMPORARY CONTROLLER SEQUENCE MOT STAGE 1-2



EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE MOT STAGE 1-2



LEGEND:

- ← ⊙ ← PROTECTED PHASE
- ← ⊙ ← PROTECTED/PERMITTED PHASE
- ← ⊙ ← PEDESTRIAN PHASE
- ← ⊙ ← OL OVERLAP

NOTES:

1. THE YELLOW LEFT TURN SECTIONS OF THESE SIGNAL HEADS SHALL BE BAGGED AND DISCONNECTED DURING MOT STAGES 1 AND 2, WHEN A SOUTHBOUND LEFT TURN LANE IS NOT PROVIDED.

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	13.0
(GREEN)	13	12	45	70.2
PROTECTIVE ARROW	16	10	10	16.0
PED. SIGNAL	4	20	100	80.0
CONTROLLER	1	100	100	100.0
UPS	-	25	100	-
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	-	-	-
TOTAL =				350.7

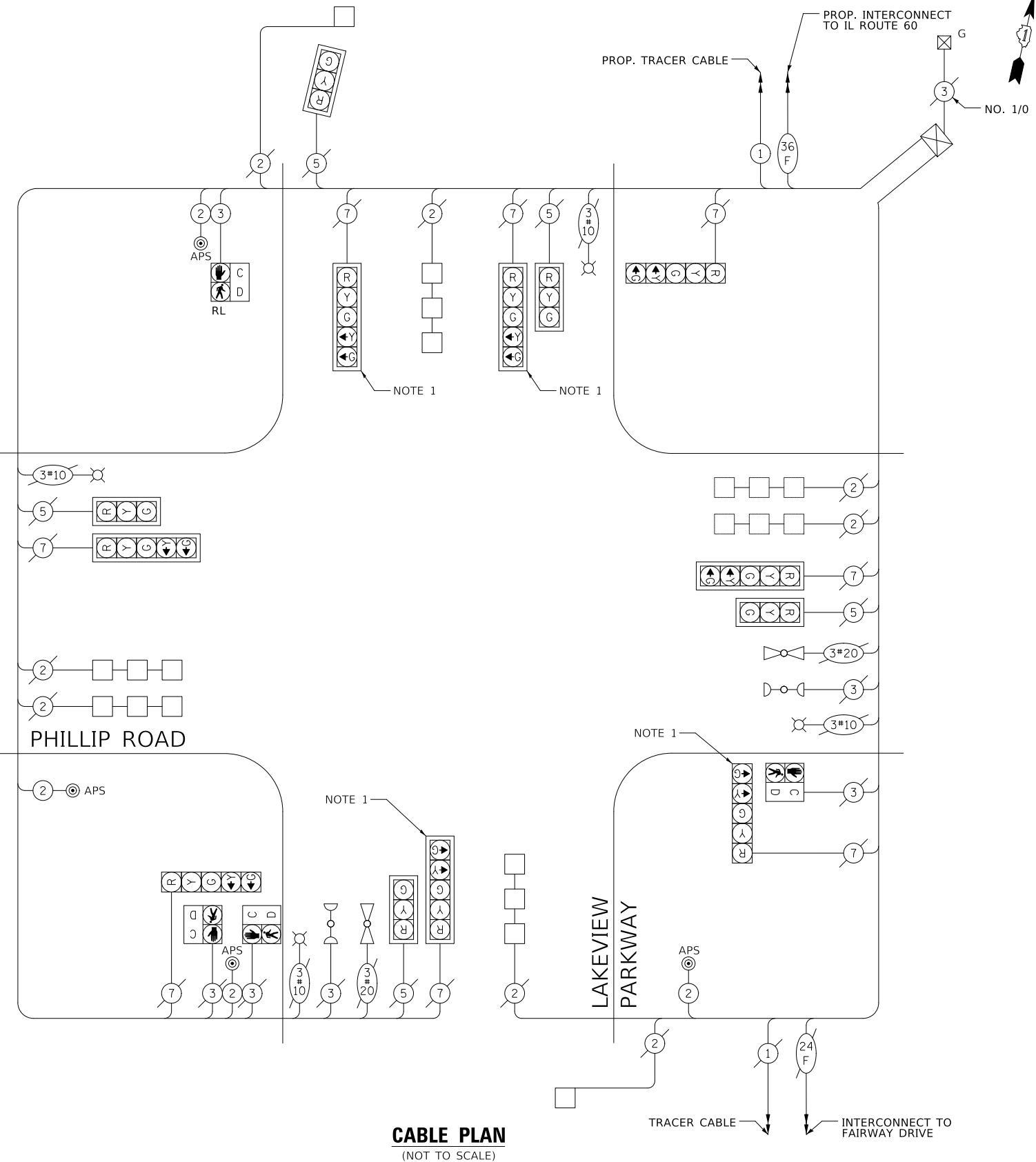
ENERGY COSTS TO:

VILLAGE OF VERNON HILLS
290 EVERGREEN DRIVE
VERNON HILLS, IL 60061

ENERGY SUPPLY: CONTACT: XXXX
PHONE: XXXX
COMPANY: COMED
ACCOUNT NUMBER: ---

SCHEDULE OF QUANTITIES

PAY ITEM	UNIT	QNTY.
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	106
HEAVY-DUTY HANDHOLE	EACH	2
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	595
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	144
DETECTOR LOOP, TYPE I	FOOT	464
RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD	EACH	1
MODIFY EXISTING CONTROLLER	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	724
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
PEDESTRIAN SIGNAL POST, 10 FT.	EACH	1
PEDESTRIAN SIGNAL POST, 5 FT.	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	4
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	8
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1



CABLE PLAN
(NOT TO SCALE)

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DEPARTMENT OF TRANSPORTATION

LAKEVIEW PARKWAY IMPROVEMENT
CABLE PLAN AND SEQUENCES

SHEET 1 OF 1 SHEETS STA TO STA

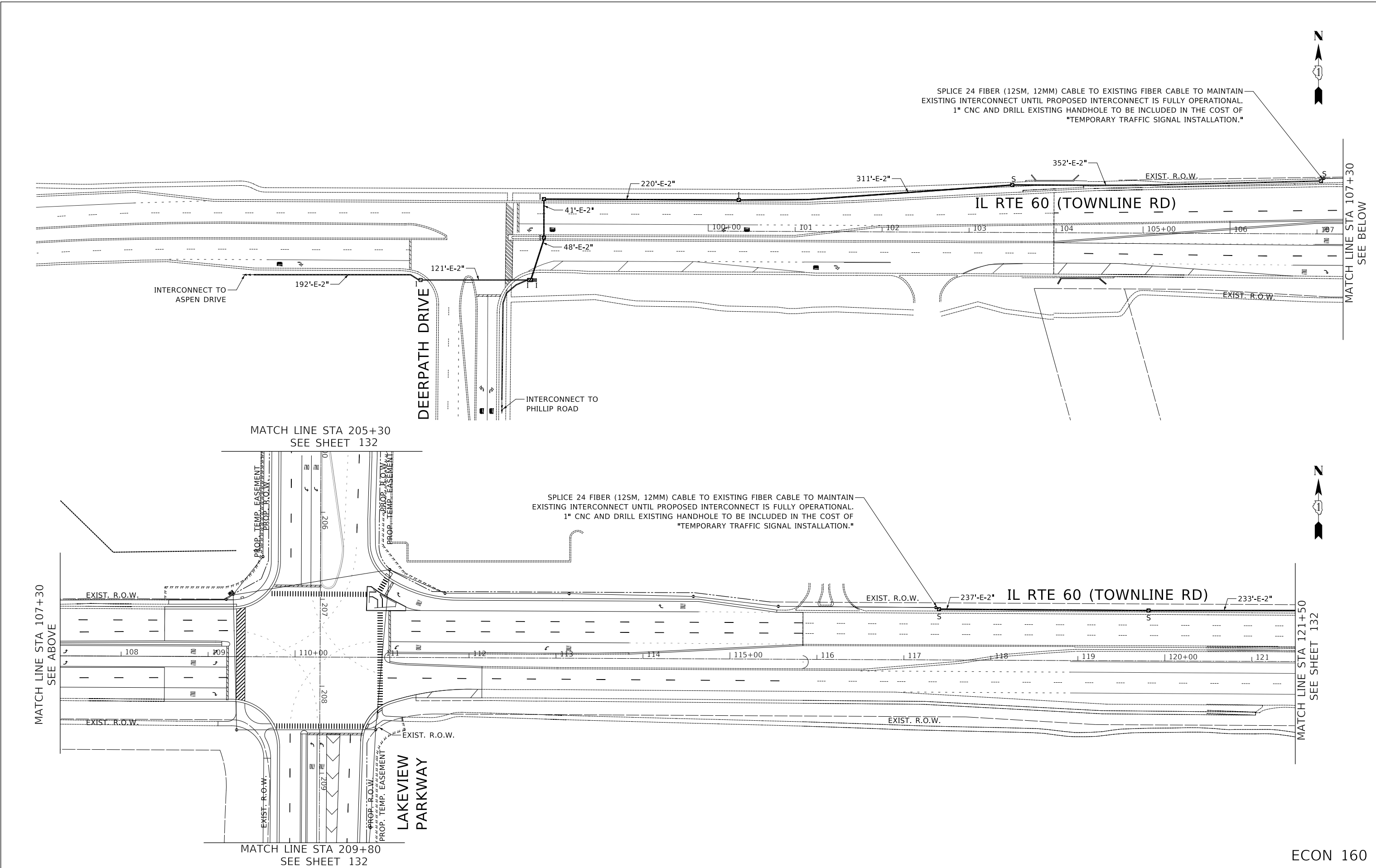
FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
2419	98-00026-02-WR	LAKE	210	130
CONTRACT NO 61115				
ILLINOIS FED AID PROJECT				

TS 6879
ECON 160

PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNED	
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	BY	
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PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES	
	CHECKED	
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	BY	
	DATE	

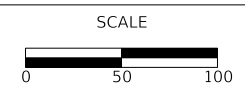
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FILE NAME: ...24-E-25_IL-60-Lakeview Temp Interconnect Plan.dgn



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CHECKED	-	JJE	REVISED	-
DATE	-	11/02/2022	REVISED	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**



**LAKEVIEW PARKWAY IMPROVEMENT
TEMPORARY INTERCONNECT PLAN**

SHEET 1 OF 2 SHEETS STA TO STA

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
2419	98-00026-02-WR	LAKE	210	131
CONTRACT NO 61115				
ILLINOIS FED AID PROJECT				

ECON 160

PLAN	SURVEYED	BY	DATE
	PLOTTED		
NOTE BOOK NO.	ALIGNMENT CHECKED		
	STRUCTURE NOTATIONS CHECKED		
	CADD FILE NAME		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
NOTE BOOK NO.	GRADES CHECKED		
	STRUCTURE NOTATIONS CHECKED		

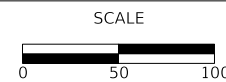
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DATE -	11/02/2022	REVISED -	

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DEPARTMENT OF TRANSPORTATION

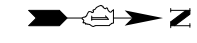
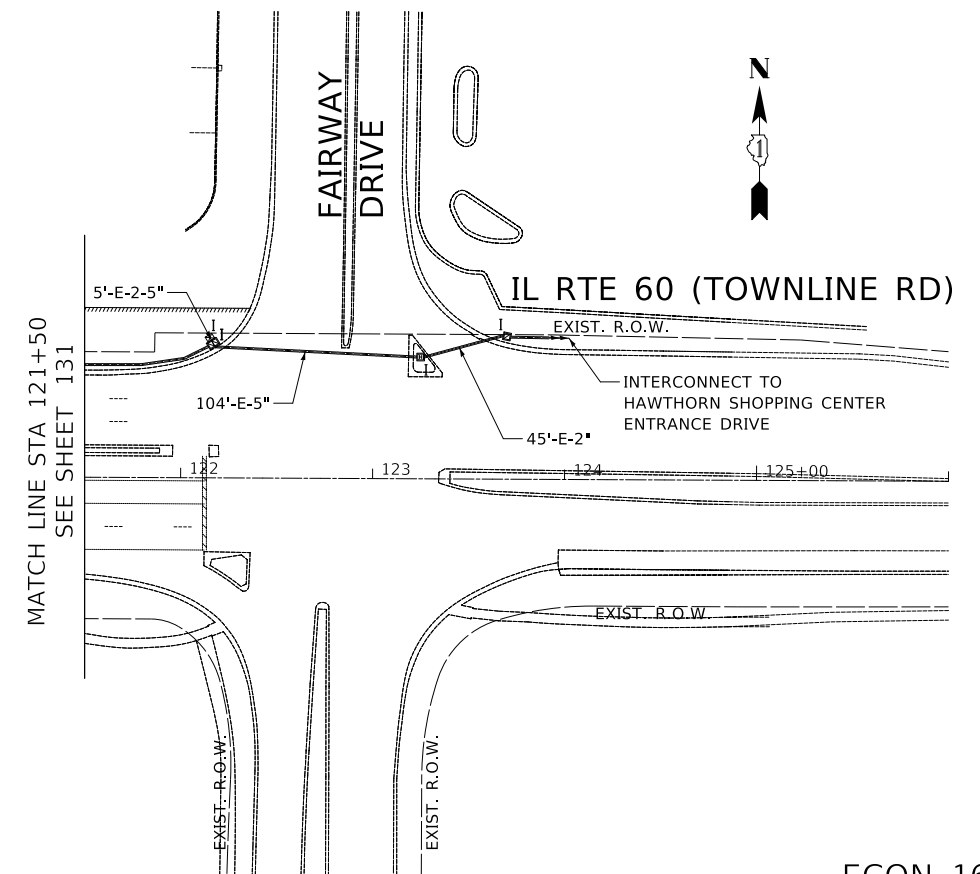
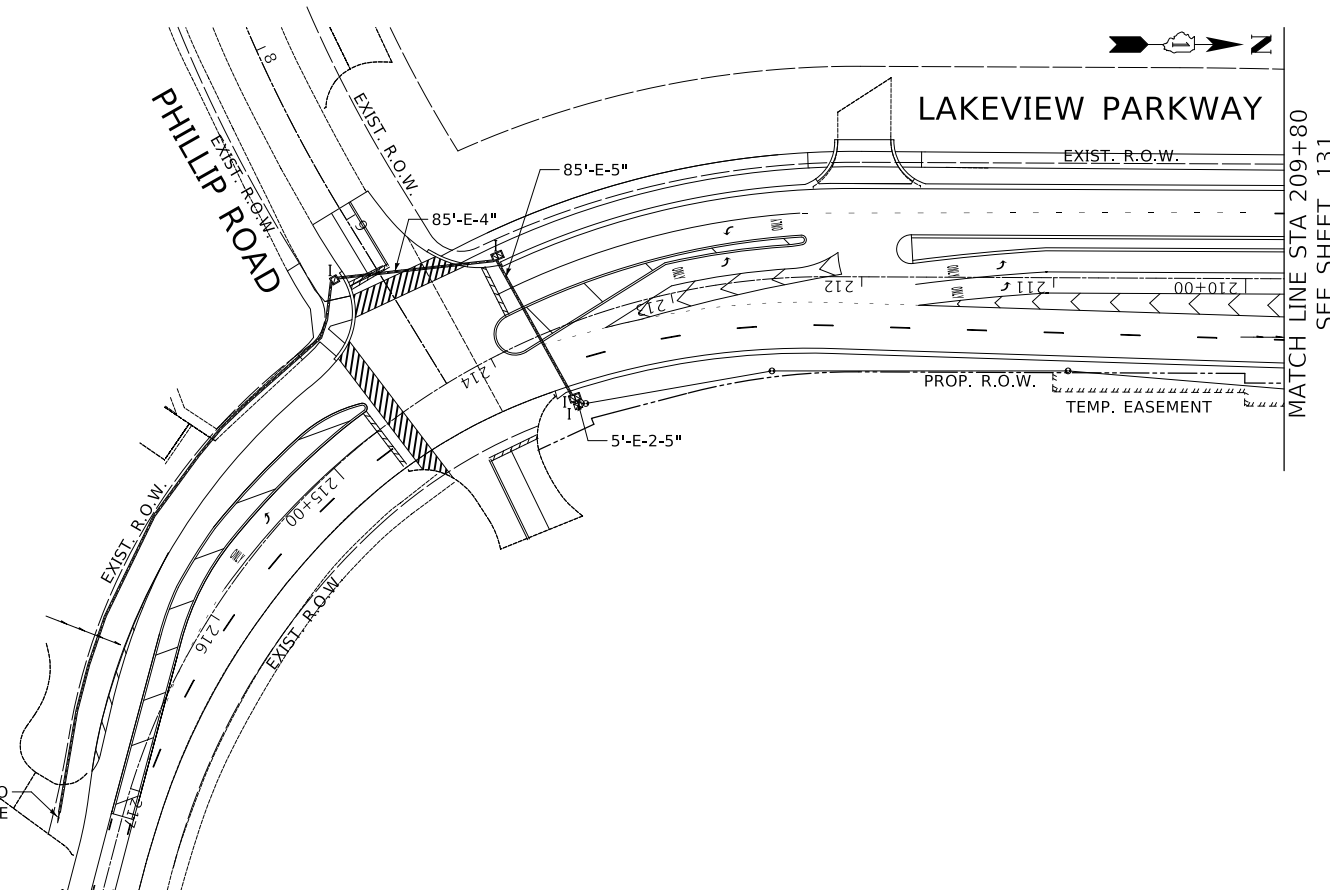
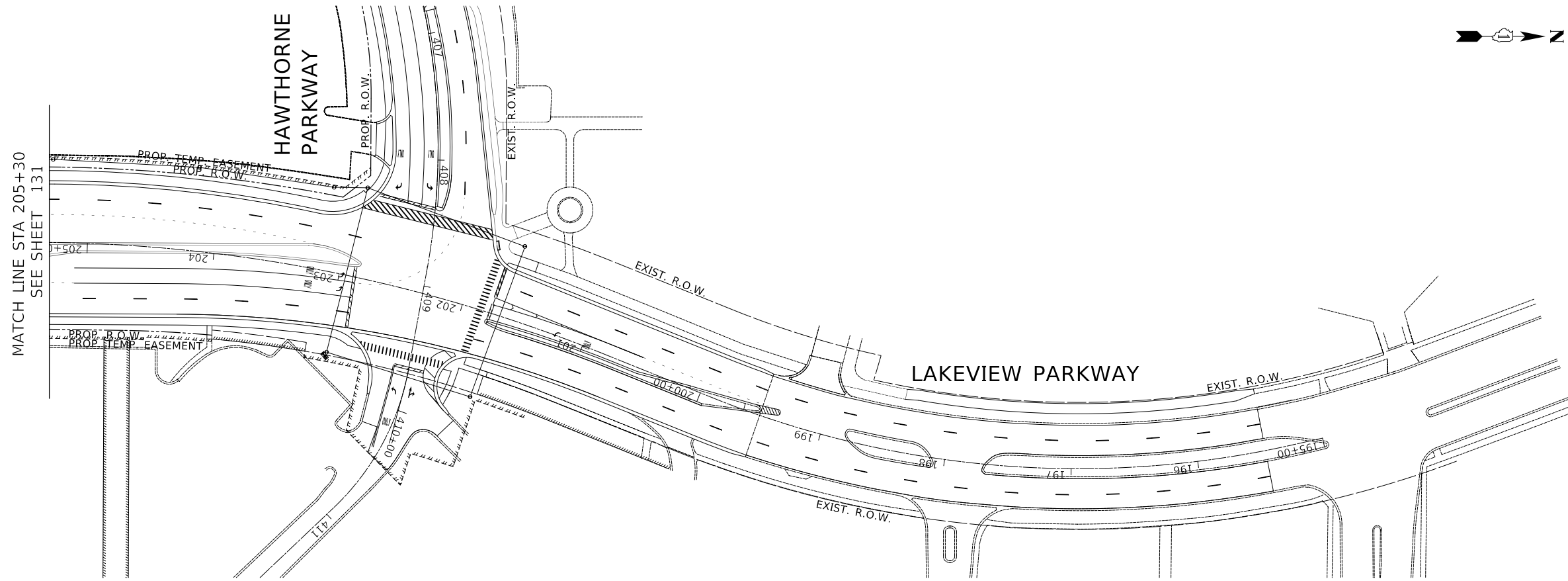


LAKEVIEW PARKWAY IMPROVEMENT
TEMPORARY INTERCONNECT PLAN

SHEET 2 OF 2 SHEETS STA TO STA

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
2419	98-00026-02-WR	LAKE	210	132
CONTRACT NO 61115				
ILLINOIS		FED AID PROJECT		

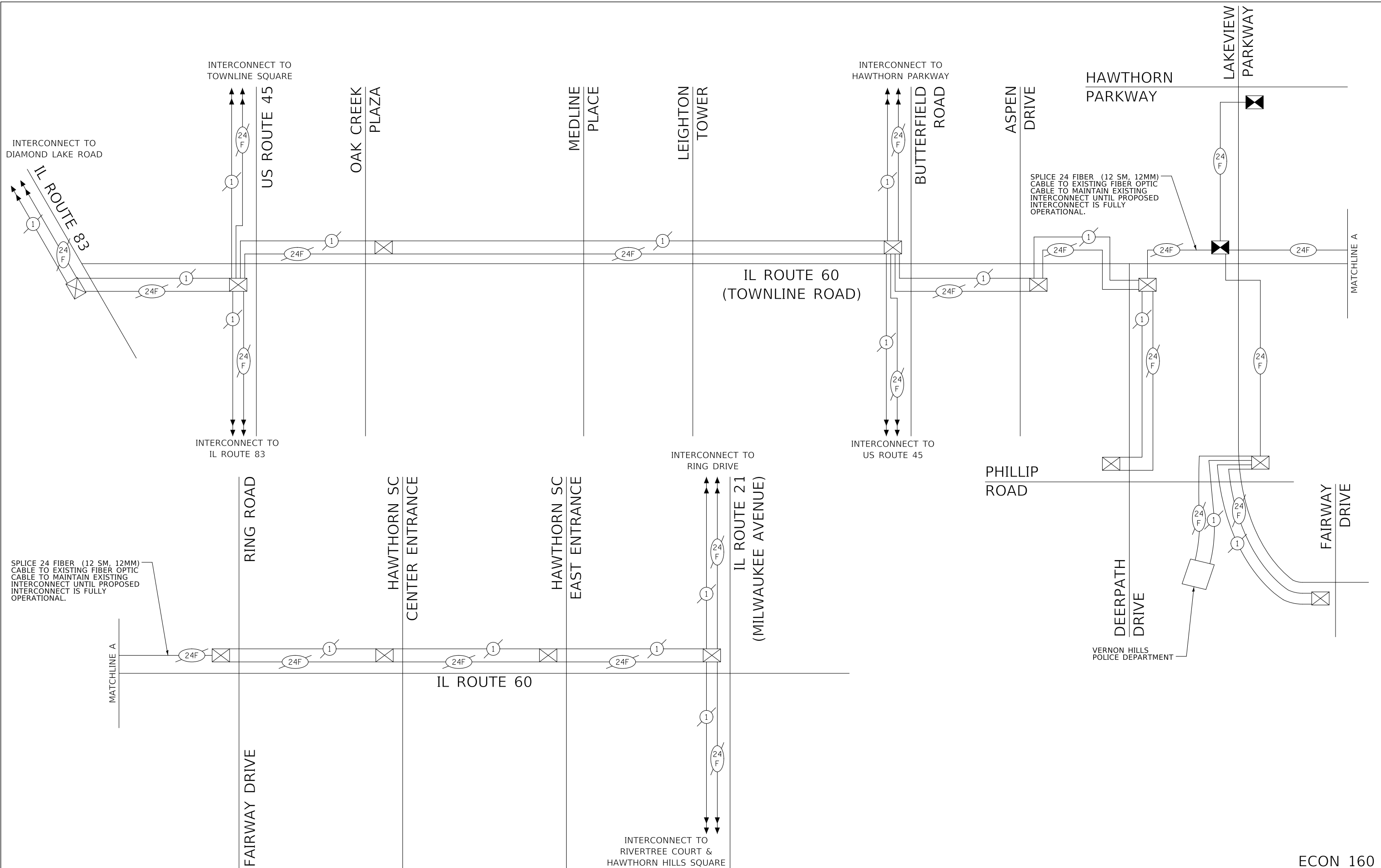
ECON 160



PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNMENT CHECKED	
	NOTE BOOK	
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	BY	
	FILE NAME	

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
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	BY	
	FILE NAME	

MODEL: S:\MODEL\NAME5
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SPLICE 24 FIBER (12 SM, 12MM) CABLE TO EXISTING FIBER OPTIC CABLE TO MAINTAIN EXISTING INTERCONNECT UNTIL PROPOSED INTERCONNECT IS FULLY OPERATIONAL.

SPLICE 24 FIBER (12 SM, 12MM) CABLE TO EXISTING FIBER OPTIC CABLE TO MAINTAIN EXISTING INTERCONNECT UNTIL PROPOSED INTERCONNECT IS FULLY OPERATIONAL.

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LAKEVIEW PARKWAY IMPROVEMENT
TEMPORARY INTERCONNECT SCHEMATIC**

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
2419	98-00026-02-WR	LAKE	210	133
CONTRACT NO 61115				
ILLINOIS FED AID PROJECT				

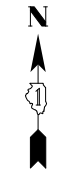
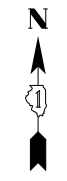
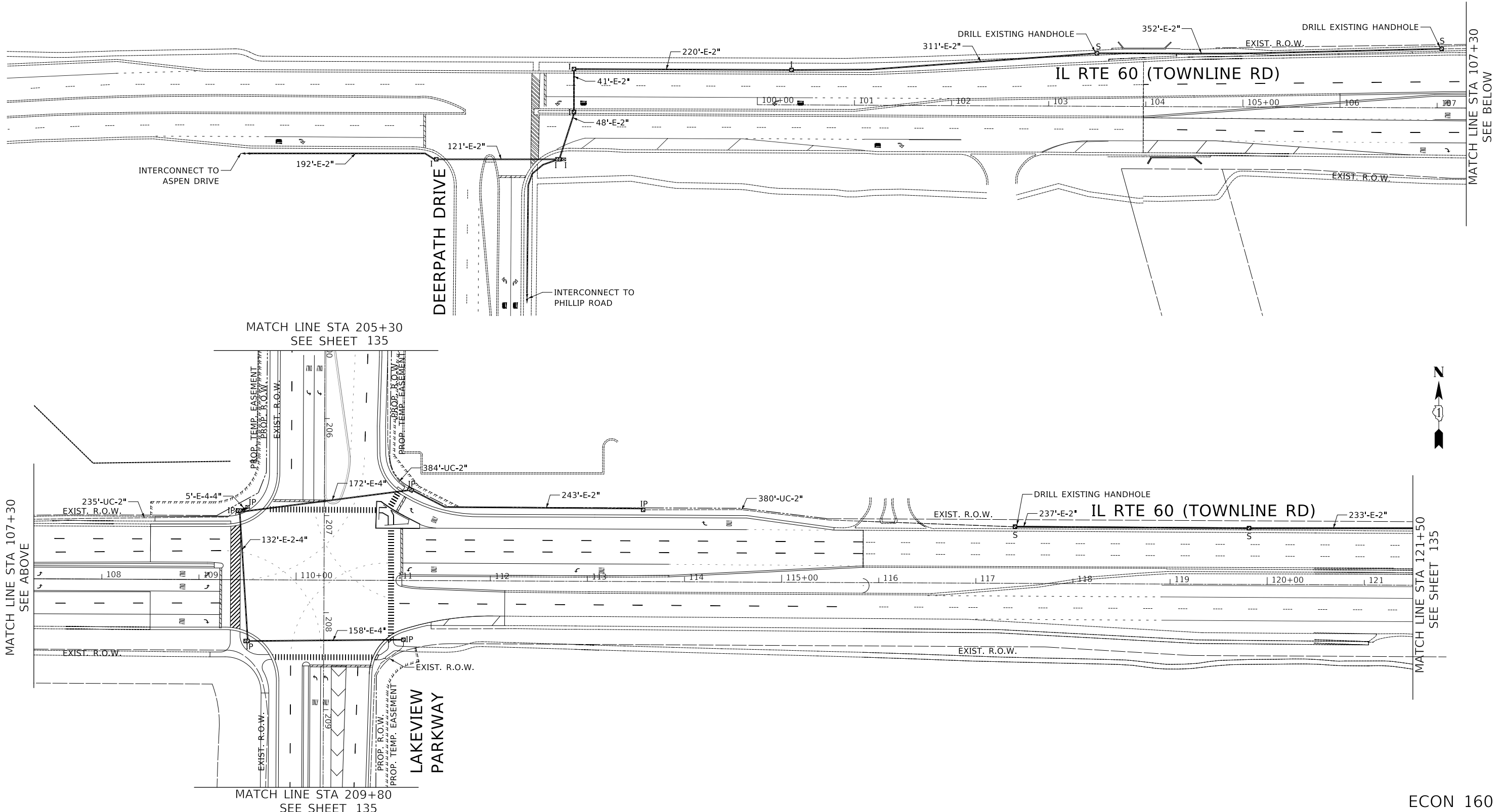
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SHEET 1 OF 1 SHEETS STA TO STA

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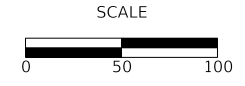
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FILE NAME: ...2729 JL-60-Lakeview Interconnect Plan.dgn



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**LAKEVIEW PARKWAY IMPROVEMENT
PROPOSED INTERCONNECT PLAN**

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
2419	98-00026-02-WR	LAKE	210	134
CONTRACT NO 61115				
ILLINOIS FED AID PROJECT				

SHEET 1 OF 2 SHEETS STA TO STA

ECON 160

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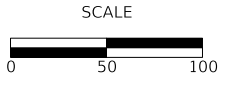
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DATE	-	11/02/2022	REVISED	-

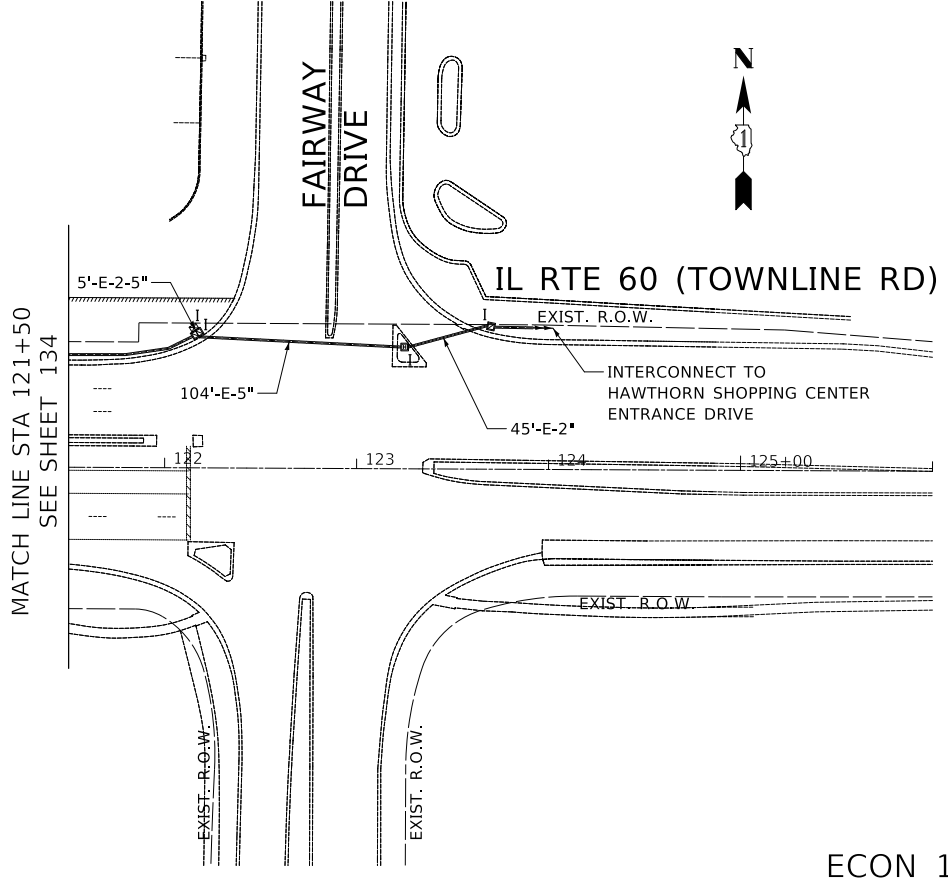
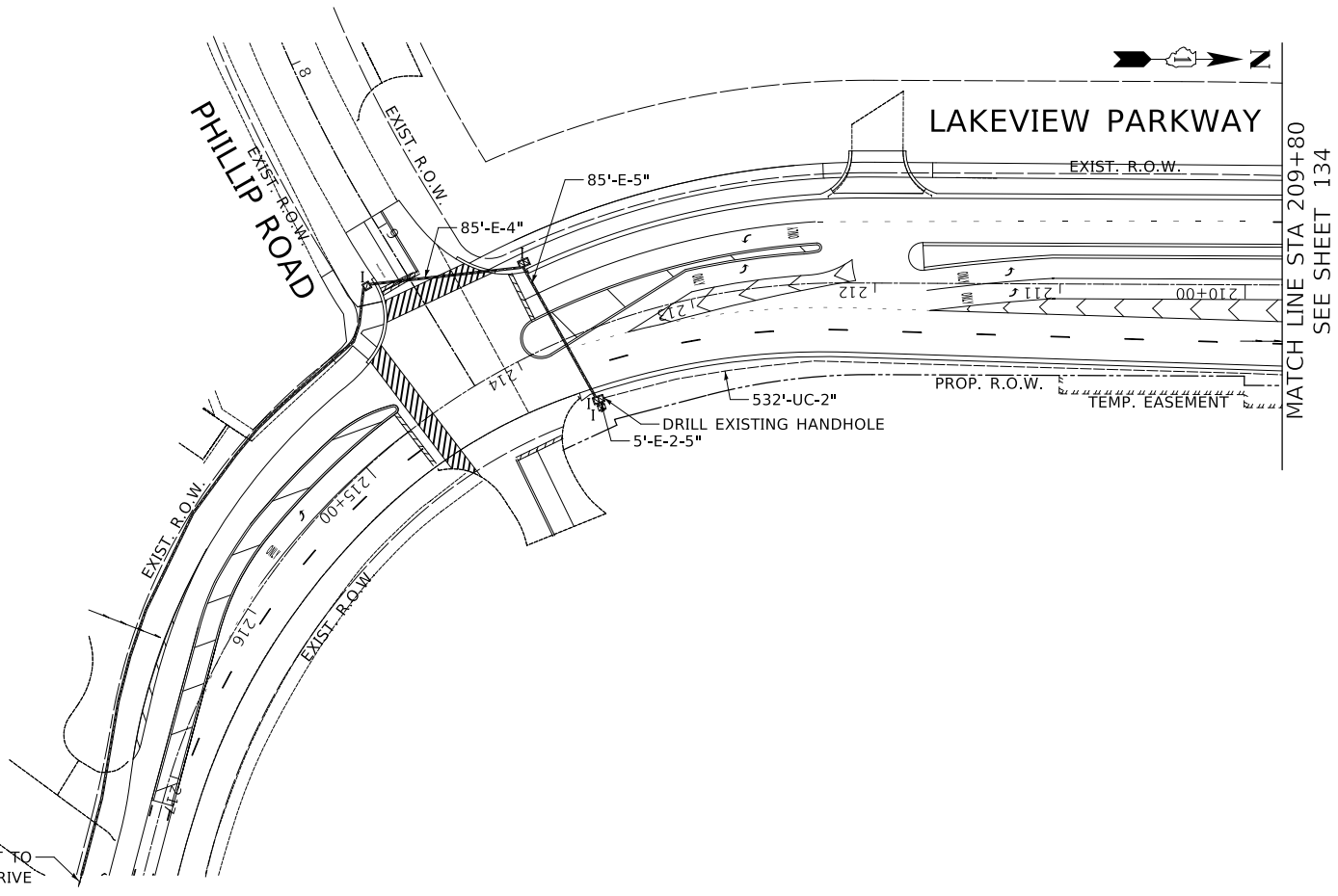
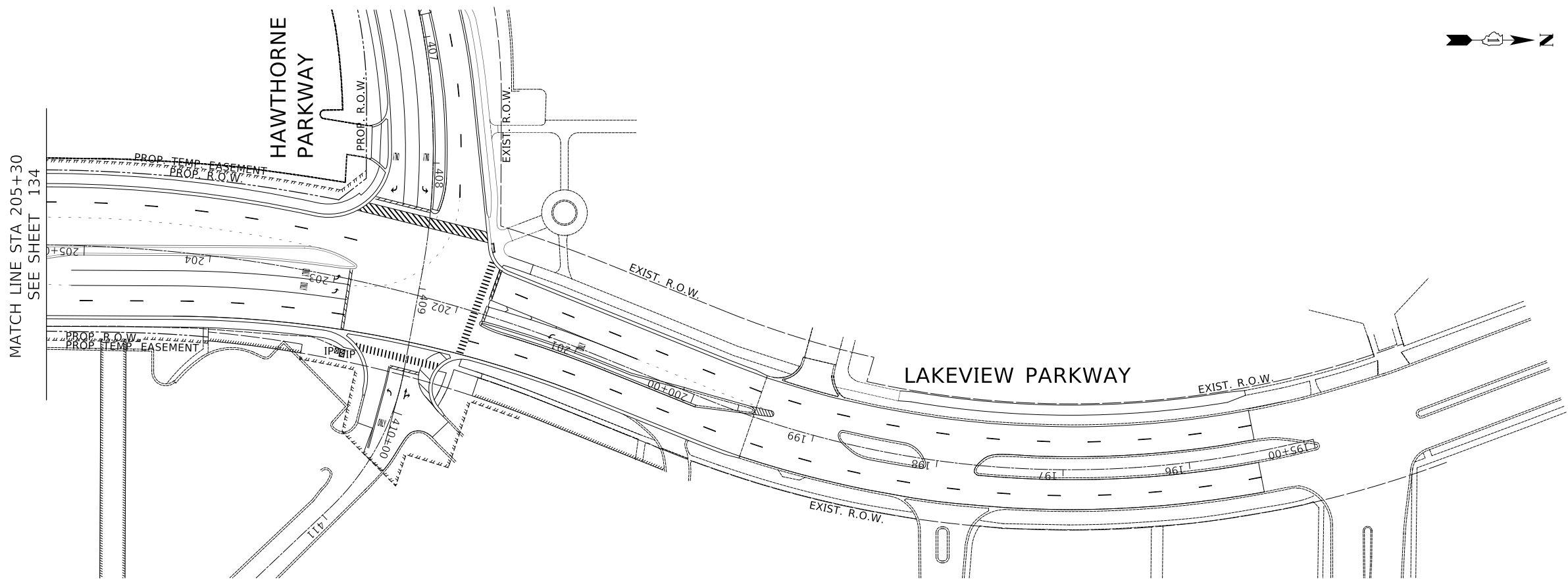
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**LAKEVIEW PARKWAY IMPROVEMENT
PROPOSED INTERCONNECT PLAN**

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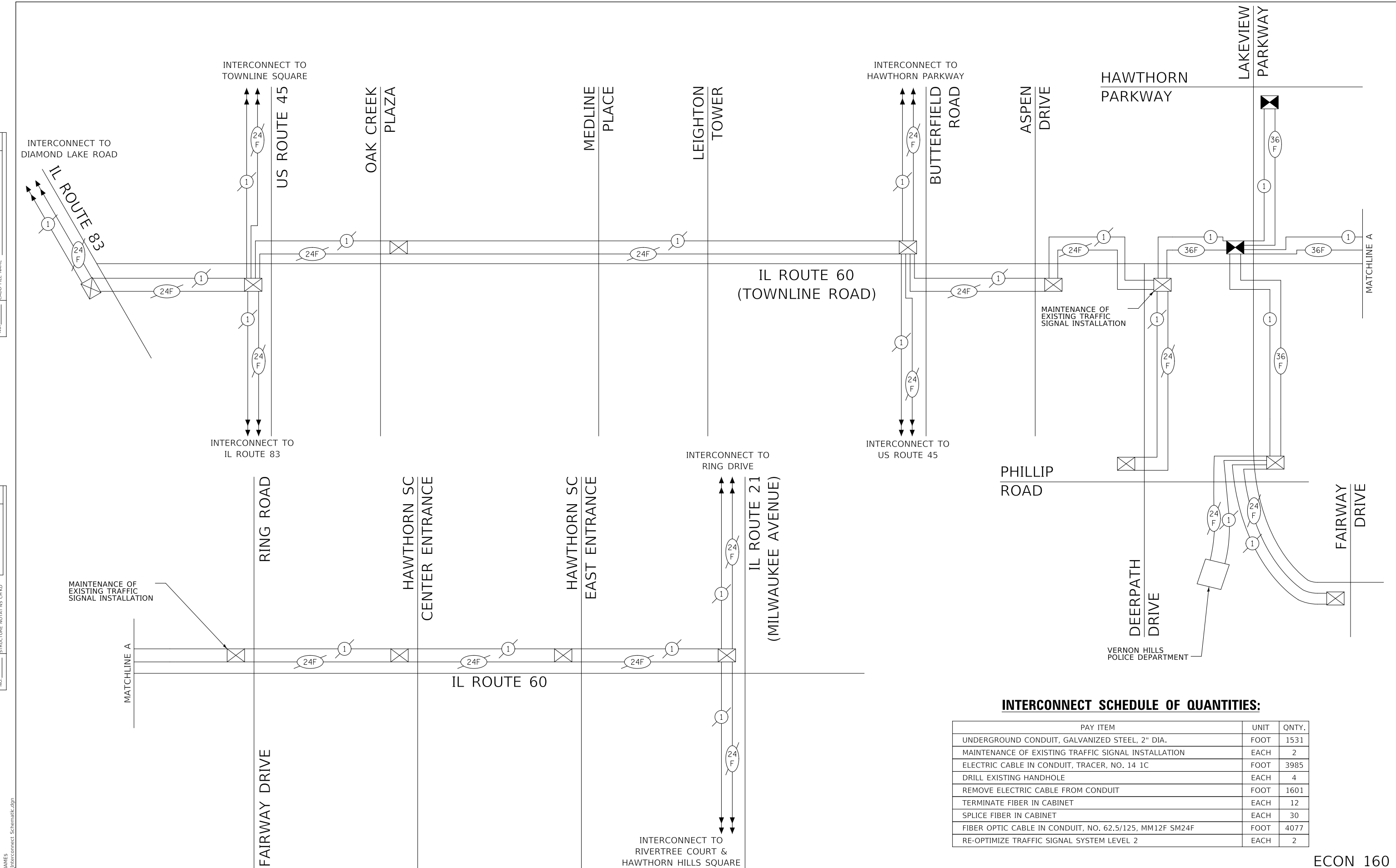
FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
2419	98-00026-02-WR	LAKE	210	135
CONTRACT NO 61115				
ILLINOIS FED AID PROJECT				



ECON 160

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	NOTE BOOK NO.	
	STRUCTURE NOTATION	
	FILE NAME	



INTERCONNECT SCHEDULE OF QUANTITIES:

PAY ITEM	UNIT	QNTY.
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	1531
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	2
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	3985
DRILL EXISTING HANDHOLE	EACH	4
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	1601
TERMINATE FIBER IN CABINET	EACH	12
SPLICE FIBER IN CABINET	EACH	30
FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F	FOOT	4077
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	2

MODEL: SH06LNAME5
FILE NAME: ...29_interconnect_schematic.dgn



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**LAKEVIEW PARKWAY IMPROVEMENT
INTERCONNECT SCHEMATIC**

SHEET 1 OF 1 SHEETS STA TO STA

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
2419	98-00026-02-WR	LAKE	210	136
CONTRACT NO 61115				
ILLINOIS FED AID PROJECT				

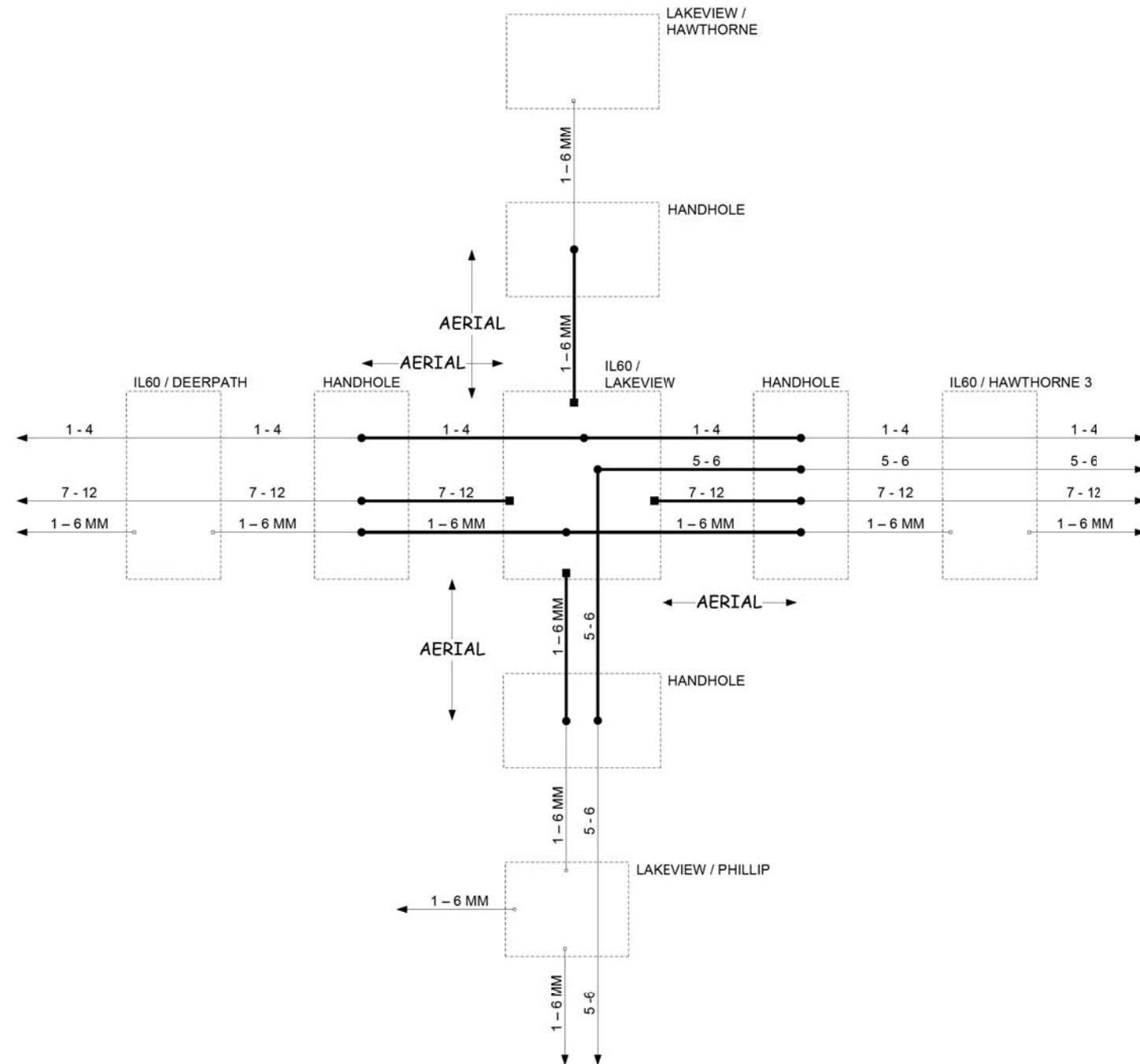
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NOTE BOOK NO.	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	

PARSONS

- EXISTING CONNECTOR / EXISTING FIBER
- NEW CONNECTOR / EXISTING FIBER
- EXISTING FUSION SPLICE / EXISTING FIBER
- NEW FUSION SPLICE / EXISTING FIBER
- NEW CONNECTOR / NEW FIBER
- NEW FUSION SPLICE / NEW FIBER

TEMP



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DATE 2022.10.27	REVISED -

LAKE COUNTY
DIVISION OF TRANSPORTATION

IL60 / LAKEVIEW TEMPORARY
FIBER SPICING DIAGRAM

ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS

SCALE N/A

MODEL: S:\MODEL\NAMES
FILE NAME: ...30_LCDDT Fiber Detail - 1.dgn



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LAKEVIEW PARKWAY IMPROVEMENT
LAKE COUNTY DIVISION OF TRANSPORTATION
TEMPORARY FIBER SPICING DIAGRAM

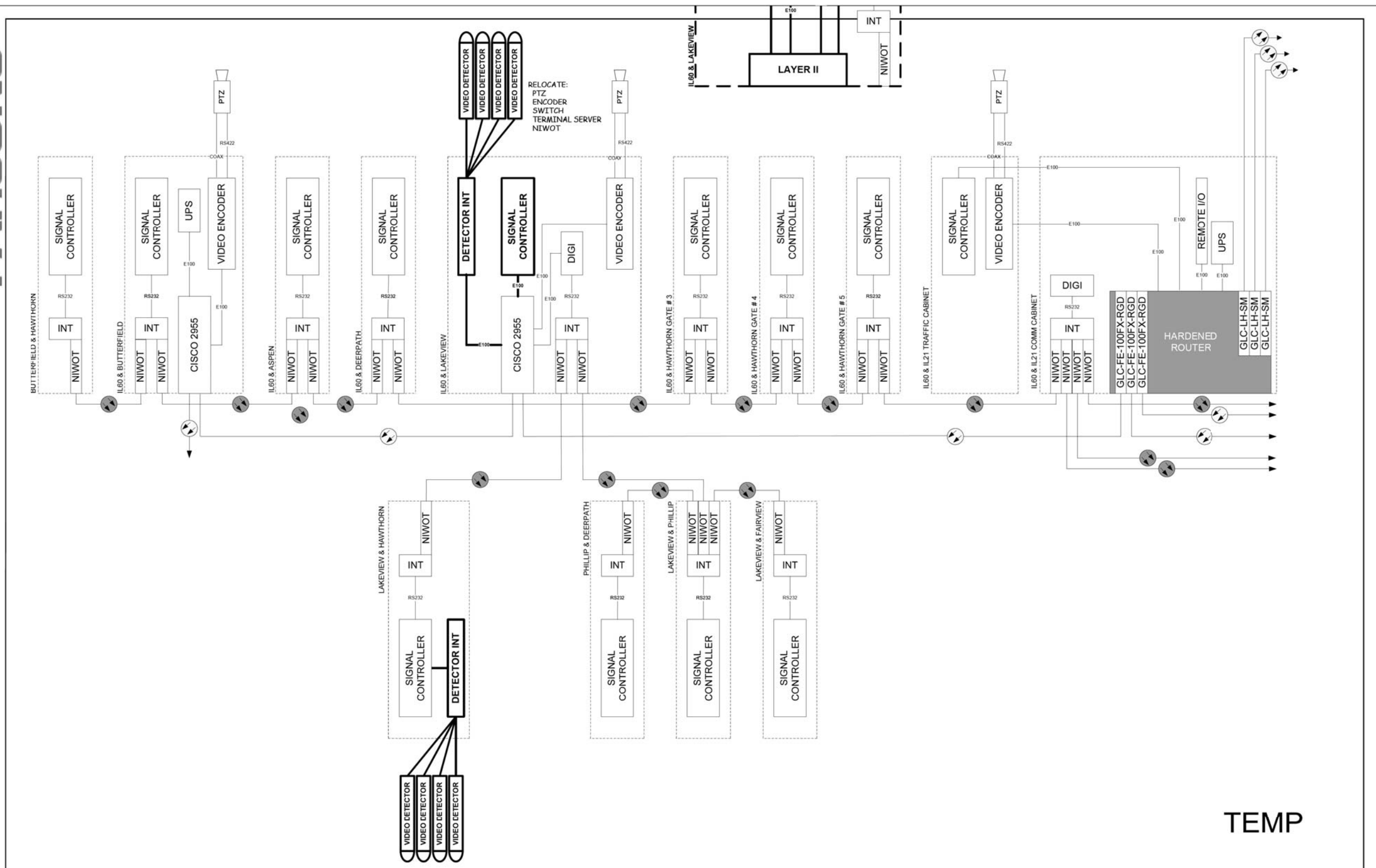
SHEET 1 OF 1 SHEETS STA TO STA

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
2419	98-00026-02-WR	LAKE	210	137
CONTRACT NO 61115				
ILLINOIS FED AID PROJECT				

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PARSONS



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DIVISION OF TRANSPORTATION

8A	ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS
IL60 / IL21				8A	
SCALE N/A					

MODEL: S:\MODEL\NAMES
FILE NAME: ...31_LCDDT Fiber Detail - 2.dwg



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LAKEVIEW PARKWAY IMPROVEMENT
LAKE COUNTY DIVISION OF TRANSPORTATION
TEMPORARY CABINET DIAGRAM







FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
2419	98-00026-02-WR	LAKE	210	138
CONTRACT NO 61115				
ILLINOIS		FED AID PROJECT		

SHEET 1 OF 1 SHEETS STA TO STA

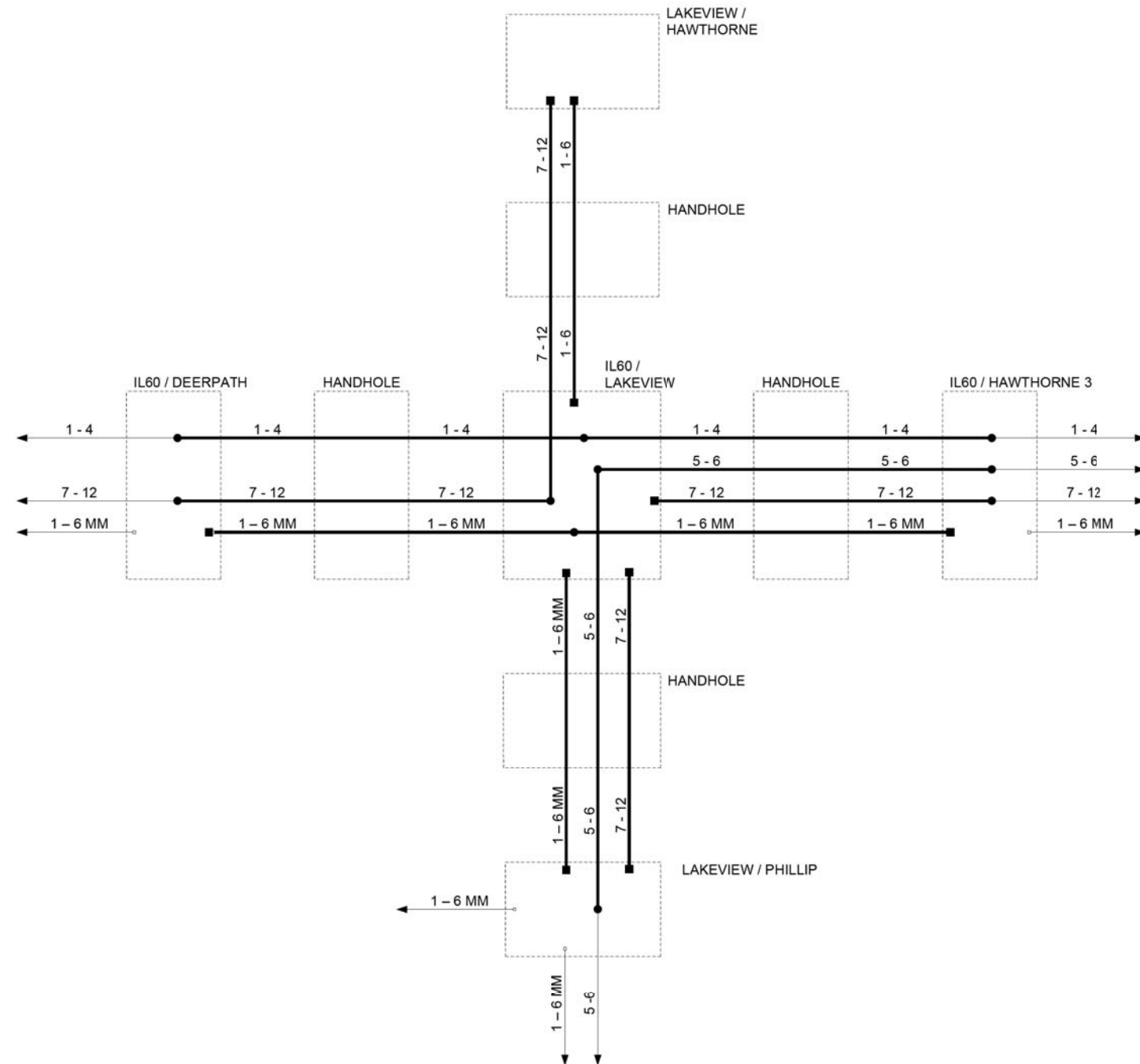
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	STRUCTURE NOTATION CHECKED	

PROFILE	SURVEYED	DATE
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NOTE BOOK NO.	GRADES CHECKED	
	STRUCTURE NOTATION CHECKED	

PARSONS

-  EXISTING CONNECTOR / EXISTING FIBER
-  NEW CONNECTOR / EXISTING FIBER
-  EXISTING FUSION SPLICE / EXISTING FIBER
-  NEW FUSION SPLICE / EXISTING FIBER
-  NEW CONNECTOR / NEW FIBER
-  NEW FUSION SPLICE / NEW FIBER

FINAL



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IL60 / LAKEVIEW
FIBER SPlicing DIAGRAM

ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS

SCALE N/A

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LAKEVIEW PARKWAY IMPROVEMENT
LAKE COUNTY DIVISION OF TRANSPORTATION
FIBER SPlicing DIAGRAM

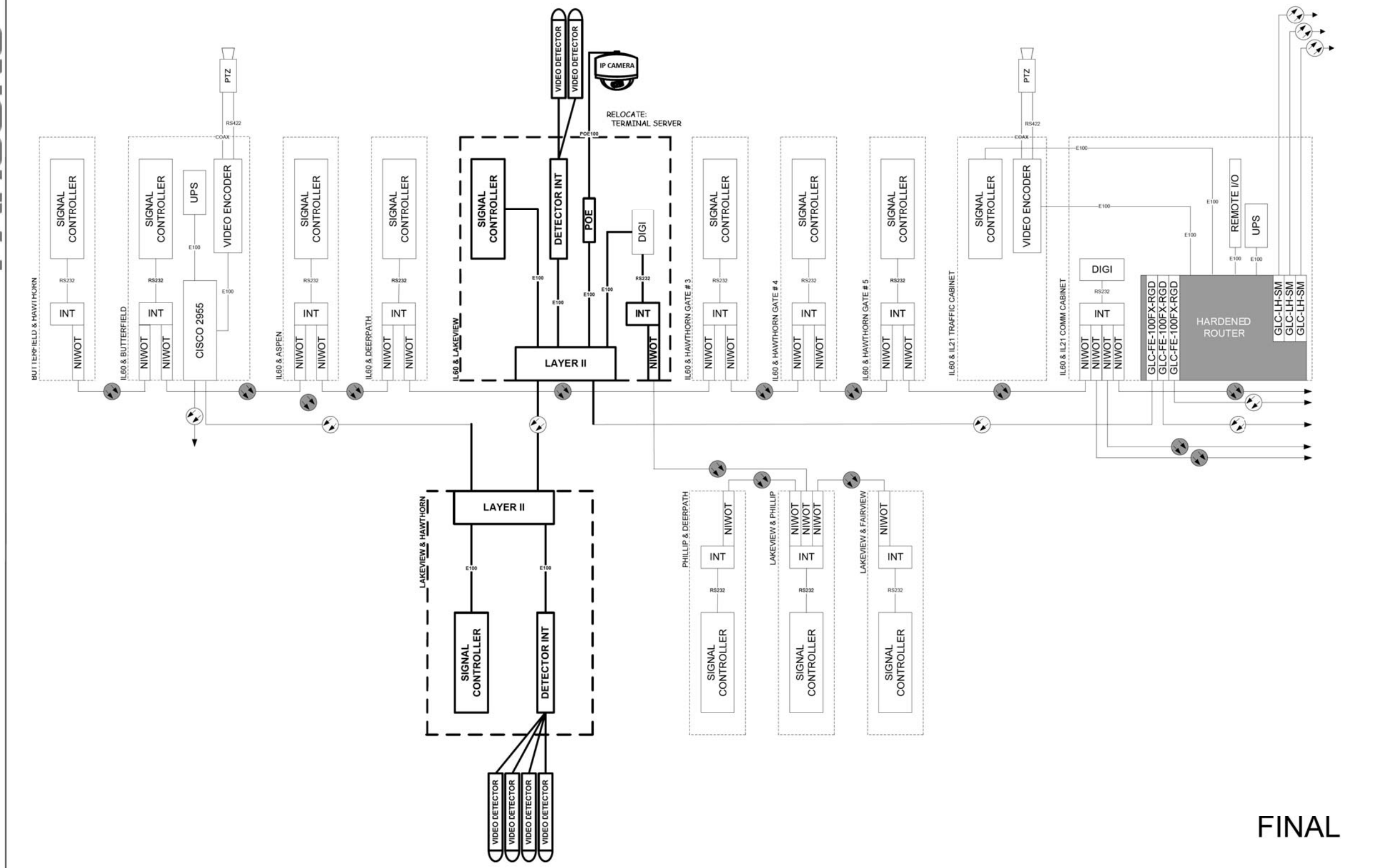
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FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
2419	98-00026-02-WR	LAKE	210	139
CONTRACT NO 61115				
ILLINOIS FED AID PROJECT				

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PROFILE	SURVEYED	BY	DATE
	GRADES CHECKED		
	STRUCTURE NOTATIONS CHECKED		
	NO.		

PARSONS



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CHECKED - DG	REVISED -
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DIVISION OF TRANSPORTATION

ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS
8A	IL60 / IL21		8A	
SCALE N/A				

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FILE NAME: ...133_CDDT Fiber Detail - 4.dgn



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**LAKEVIEW PARKWAY IMPROVEMENT
LAKE COUNTY DIVISION OF TRANSPORTATION
CABINET DIAGRAM**

SHEET	1 OF 1	SHEETS	STA	TO STA
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FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
2419	98-00026-02-WR	LAKE	210	140
CONTRACT NO 61115				
ILLINOIS		FED AID PROJECT		

LEGEND

	EXISTING LIGHT POLE WITH SIDE TENON MOUNTING ARM AND SHOE BOX LUMINAIRE		TEMPORARY LIGHTING UNIT 50 FOOT WOOD POLE (40' MOUNTING HEIGHT), 15 FOOT MAST ARM TEMPORARY LUMINAIRE LED, ROADWAY
	EXISTING 30 FOOT LIGHT POLE, 6 FOOT MAST ARM, SHOE BOX LUMINAIRE		TEMPORARY LIGHTING UNIT 60 FOOT WOOD POLE (45' MOUNTING HEIGHT), 15 FOOT MAST ARM TEMPORARY LUMINAIRE LED, ROADWAY
	EXISTING LIGHT POLE WITH TWIN SIDE TENON MOUNTING ARM AND SHOE BOX LUMINAIRE		TEMPORARY AERIAL CABLES
	EXISTING 30 FOOT LIGHT POLE WITH TWIN 6 FOOT MAST ARM AND SHOE BOX LUMINAIRE		LIGHTING CONTROLLER - TEMPORARY OR PROPOSED AS SPECIFIED
	EXISTING COMBINATION TRAFFIC SIGNAL POLE		TEMPORARY WOOD POLE - 40 FOOT WOOD POLE
	EXISTING HANDHOLE		TEMPORARY COMBINATION TRAFFIC SIGNAL AND LIGHT POLE 40 FOOT MOUNTING HEIGHT, 15 FOOT MAST ARM (SEE TRAFFIC SIGNAL PLANS) TEMPORARY LUMINAIRE LED, ROADWAY
	EXISTING LIGHTING CONTROLLER		PROPOSED COMBINATION TRAFFIC SIGNAL AND LIGHT POLE 40 FOOT MOUNTING HEIGHT, 10 FOOT MAST ARM (SEE TRAFFIC SIGNAL PLANS) LUMINAIRE LED, ROADWAY TYPE 2 (240V, 2 PHASE WIRES BLACK AND RED)
	EXISTING LIGHTING CABLES		
	REMOVE ELECTRIC CABLES FROM CONDUIT		
	EXISTING LIGHTING UNIT TO BE REMOVED		
	EXISTING HANDHOLE TO BE REMOVED		
	EXISTING LIGHTING CONTROLLER TO BE REMOVED		

	PROPOSED LIGHTING UNIT LIGHT POLE, ALUMINUM, 30 FT. M.H., 6 FT. MAST ARM LUMINAIRE, LED, ROADWAY (240V, 2 PHASE WIRES BLACK AND RED)
	PROPOSED LIGHTING UNIT LIGHT POLE, ALUMINUM, 30 FT. M.H., 10 FT. MAST ARM LUMINAIRE, LED, ROADWAY (240V, 2 PHASE WIRES BLACK AND RED)
	PROPOSED LIGHTING UNIT LIGHT POLE, ALUMINUM, 30 FT. M.H., 10 FT. MAST ARM LUMINAIRE, LED, SPECIAL (240V, 2 PHASE WIRES BLACK AND RED)
	PROPOSED UNIT DUCT
	PROPOSED HANDHOLE
	EXISTING LIGHT POLE WITH PROPOSED LUMINAIRE, LED, ROADWAY

LIGHTING SCHEDULE OF QUANTITIES

CODED PAY ITEM NO.	ITEM	UNIT	TOTAL QUANTITY
80400100	ELECTRIC SERVICE INSTALLATION	EACH	1
80400200	ELECTRIC UTILITY SERVICE CONNECTION	L SUM	1
81028210	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	110
81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	820
81028320	UNDERGROUND CONDUIT, PVC, 1" DIA.	FOOT	20
81400100	HANDHOLE	EACH	1
81603035	UNIT DUCT, 600V, 2-1C NO.6, 1/C NO.6 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE	FOOT	2449
81603100	UNIT DUCT, 600V, 4-1C NO.6, 1/C NO.6 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE	FOOT	995
81702400	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 2	FOOT	110
81702450	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 10	FOOT	27
81800230	AERIAL CABLE, 2-1/C NO. 6 WITH MESSENGER WIRE	FOOT	3701
82500335	LIGHTING CONTROLLER, PEDESTAL MOUNTED, 240VOLT, 100AMP	EACH	1
83006200	LIGHT POLE, ALUMINUM, 30 FT. M.H., 6 FT. MAST ARM	EACH	10
83006400	LIGHT POLE, ALUMINUM, 30 FT. M.H., 10 FT. MAST ARM	EACH	5
83600200	LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	110
83800506	BREAKAWAY DEVICE, COUPLING WITH ALUMINUM SKIRT OVER STAINLESS STEEL SCREEN	EACH	15
84100110	REMOVAL OF TEMPORARY LIGHTING UNIT	EACH	13
84200500	REMOVAL OF LIGHTING UNIT, SALVAGE	EACH	9
84200804	REMOVAL OF POLE FOUNDATION	EACH	9
84500110	REMOVAL OF LIGHTING CONTROLLER	EACH	1
84500120	REMOVAL OF ELECTRIC SERVICE INSTALLATION	EACH	1
84500130	REMOVAL OF LIGHTING CONTROLLER FOUNDATION	EACH	1
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	5930
89502380	REMOVE EXISTING HANDHOLE	EACH	4
X0323002	TEMPORARY ELECTRIC SERVICE CONNECTION	EACH	1
X0323003	TEMPORARY ELECTRIC SERVICE INSTALLATION	EACH	1
X0326148	TEMPORARY WOOD POLE, 60 FT., CLASS 4, 15 FT. MAST ARM	EACH	3
X0327349	TEMPORARY WOOD POLE, 40 FT., CLASS 4	EACH	8
X0327350	TEMPORARY WOOD POLE, 50 FT., CLASS 4, 15 FT. MAST ARM	EACH	10
X0328009	EXISTING LIGHTED BOLLARD AND FOUNDATION REMOVAL	EACH	1
X1400238	LUMINAIRE, LED, SPECIAL	EACH	1
X1400278	REMOVE EXISTING LUMINAIRE	EACH	15
X8250060	TEMPORARY LIGHTING CONTROLLER	EACH	1
X8360215	LIGHT POLE FOUNDATION, 24" DIAMETER, OFFSET	FOOT	48
XX009492	TEMPORARY LUMINAIRE LED, ROADWAY	EACH	18
XX009551	LUMINAIRE, LED, ROADWAY	EACH	29
XX009552	LUMINAIRE, LED, ROADWAY TYPE 2	EACH	4
Z0033028	MAINTENANCE OF LIGHTING SYSTEM	CAL MO	10

LIGHTING GENERAL NOTES

- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION.
- PAY ITEMS IN THE SUMMARY OF QUANTITIES HAVE BEEN ESTIMATED. IF, IN THE ENGINEER'S OPINION, ANY WORK IS NOT REQUIRED, THAT ITEM WILL BE DEDUCTED FROM THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- TEMPORARY LIGHTING WILL REMAIN OPERATIONAL UNTIL THE PROPOSED LIGHTING IS INSTALLED AND OPERATIONAL. TRANSITION OF TEMPORARY TO PROPOSED LIGHTING WILL BE COORDINATED AND COMPLETED ON THE SAME DAY WITHOUT ANY INTERRUPTION OF OPERATION FOR THAT SAME EVENING.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MARK THE PROPOSED LOCATIONS OF ALL LIGHT POLES AND LIGHTING CONTROLLERS FOR EXAMINATION AND CONFIRMATION WITH THE RESIDENT ENGINEER.
- THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO AUGURING FOR LIGHT POLE FOUNDATIONS. THE EXACT LOCATIONS FOR ALL ITEMS SHALL BE CONFIRMED WITH THE RESIDENT ENGINEER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ESTABLISHMENT OF FINISHED GRADE. THE RESIDENT ENGINEER MAY ASSIST THE CONTRACTOR, AS APPLICABLE, BUT THE RESPONSIBILITY FOR COORDINATING THE FINISHED GRADE ELEVATION WITH THE TOP OF FOUNDATIONS HEIGHTS AND THE LIGHT SHALL REMAIN WITH THE CONTRACTOR.
- NO POLES SHALL BE ERECTED UNTIL THE RESPECTIVE FOUNDATIONS HAVE CURED, AS APPROVED BY THE ENGINEER.
- FOR ALL CONCRETE FOUNDATIONS, A MINIMUM OF 2 SLEEVES SHALL BE PROVIDED REGARDLESS OF WHAT IS BEING INSTALLED. THE SLEEVES SHALL BE SEALED AND CAPPED TO PREVENT MOISTURE OR CONTAMINANTS. MATERIAL AND LABOR WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE PAY ITEM FOR LIGHT POLE FOUNDATION.
- TO MAINTAIN THE STRUCTURAL INTEGRITY OF ALUMINUM POLES WITH MAST ARMS, THEY SHALL NOT BE ERECTED AND LEFT TO STAND WITHOUT LUMINAIRES. NOTE THAT THE CONTRACTOR SHALL NOT BE PAID FOR POLES UNTIL LUMINAIRES ARE INSTALLED.
- CONDUIT AND UNIT DUCT MUST BE POSITIONED IN THE FIELD TO AVOID CONFLICT WITH TREES, BUSHES, DRAINS, OTHER UTILITIES, AND LANDSCAPING. PREFERRED LOCATION OF UNIT DUCT IS 12 INCHES OFF PROPOSED BACK OF CURB AND IN NO CASE SHALL IT BE CLOSER THEN 12 INCHES. LOCATIONS GREATER THEN 12 INCHES BASED ON FIELD CONDITIONS WILL BE APPROVED BY THE ENGINEER.
- WHEN SPLICING TO EXISTING POLE, ANY AND ALL WORK REQUIRED TO RUN THE PROPOSED UNIT DUCT INTO EXISTING FOUNDATION SLEEVE AND SPLICING IN EXISTING POLE SHALL BE COVERED AND INCLUDED IN THE PAY ITEM FOR THE UNIT DUCT.
- THE INSTALLATION OF BURIED WARNING TAPE SHALL BE INSPECTED AND APPROVED BY THE RESIDENT ENGINEER.
- ANY DAMAGE TO PAVEMENT, SIDEWALK, CURB, OR ANY OTHER PORTION OF THE ROADWAY NOT SPECIFICALLY TO BE REMOVED AND REPLACED SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST AND REPLACEMENT SHALL MEET THE APPROVAL OF THE ENGINEER.
- OFFSET CALL-OFFS FOR TEMPORARY LIGHT POLES ARE FROM THE CENTER OF POLES TO PROPOSED CONSTRUCTION BASELINE. OFFSETS CALL-OFFS FOR PROPOSED LIGHT POLES ARE FROM THE CENTER OF POLES TO PROPOSED EDGE OF PAVEMENT (E.O.P.)

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	ALIGNMENT CHECKED	
	ROADWAY CHECKED	
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	GRADES CHECKED	
	STRUCTURE NOTATION CHECKED	

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FILE NAME: ...31417.LP00.dgn



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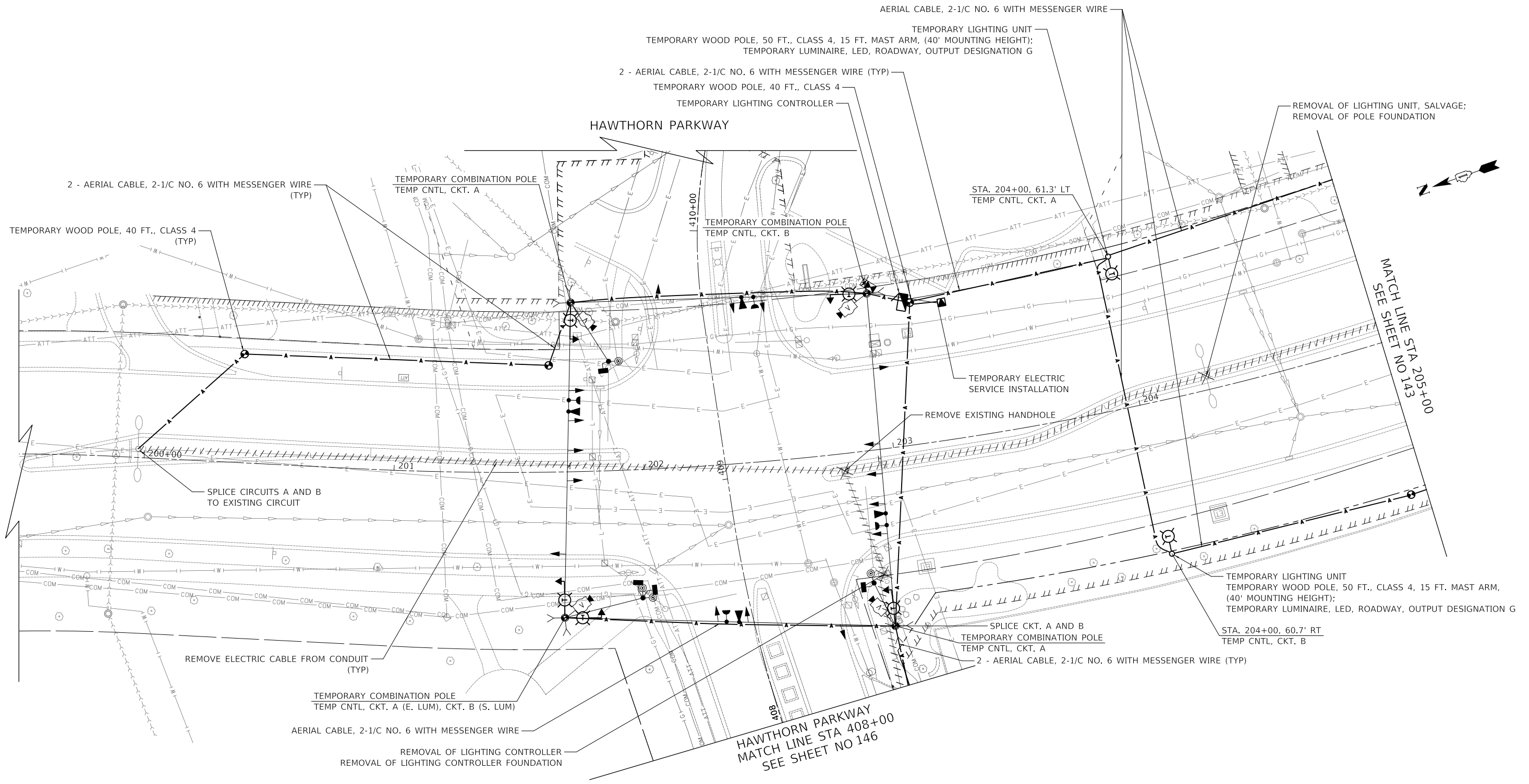
LAKEVIEW PARKWAY IMPROVEMENT
LIGHTING LEGEND, GENERAL NOTES, AND BILL OF MATERIAL

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
2419	98-00026-02-WR	LAKE	210	141
CONTRACT NO 61115				
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N.T.S SHEET 1 OF 1 SHEETS STA TO STA

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	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NO.	



NOTES

1. LIGHTING ON TEMPORARY COMBINATION TRAFFIC SIGNAL AND LIGHT POLE WILL BE WIRED AND CONTROLLED BY THE TEMPORARY STREET LIGHTING CONTROLLER. SEE TRAFFIC SIGNAL PLANS FOR LOCATION OF POLE.

LAKEVIEW PARKWAY

MODEL: SMODELNAME
FILE NAME: ...3447.L01.dgn



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CHECKED	-	KRK	REVISED	-
DATE	-	11/02/2022	REVISED	-

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DEPARTMENT OF TRANSPORTATION**



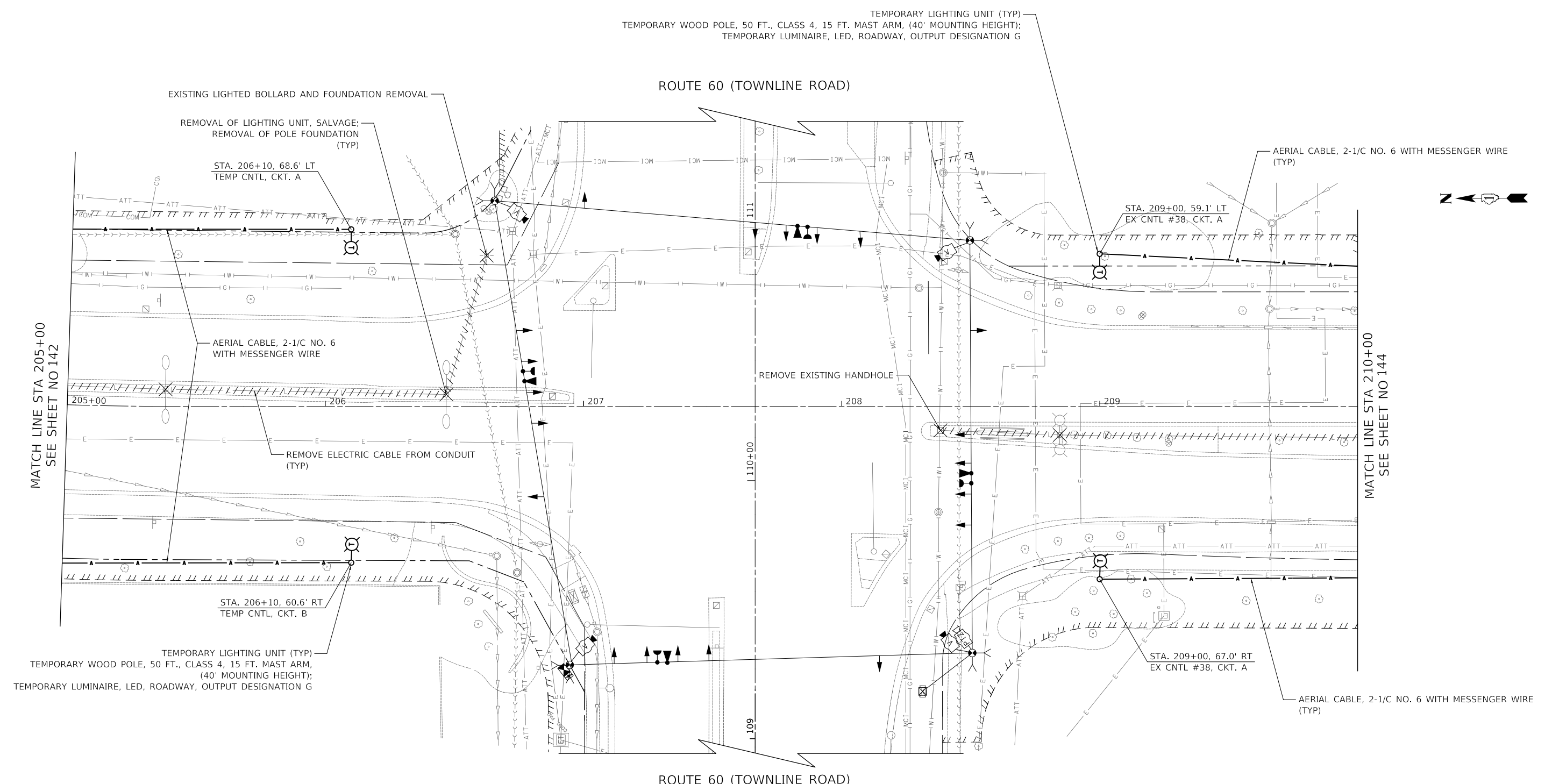
**LAKEVIEW PARKWAY IMPROVEMENT
TEMPORARY LIGHTING PLAN**

SHEET 1 OF 5 SHEETS STA 199+50 TO STA 205+00

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
2419	98-00026-02-WR	LAKE	210	142
CONTRACT NO 61115				
ILLINOIS FED AID PROJECT				

PLAN	SURVEYED	DATE
	PLOTTED	BY
	ALIGNMENT CHECKED	
	NOTE BOOK	
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	FILE NAME	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	NOTE BOOK	
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	FILE NAME	
	NO.	



LAKEVIEW PARKWAY

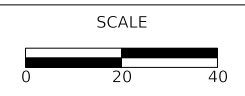
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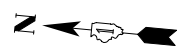
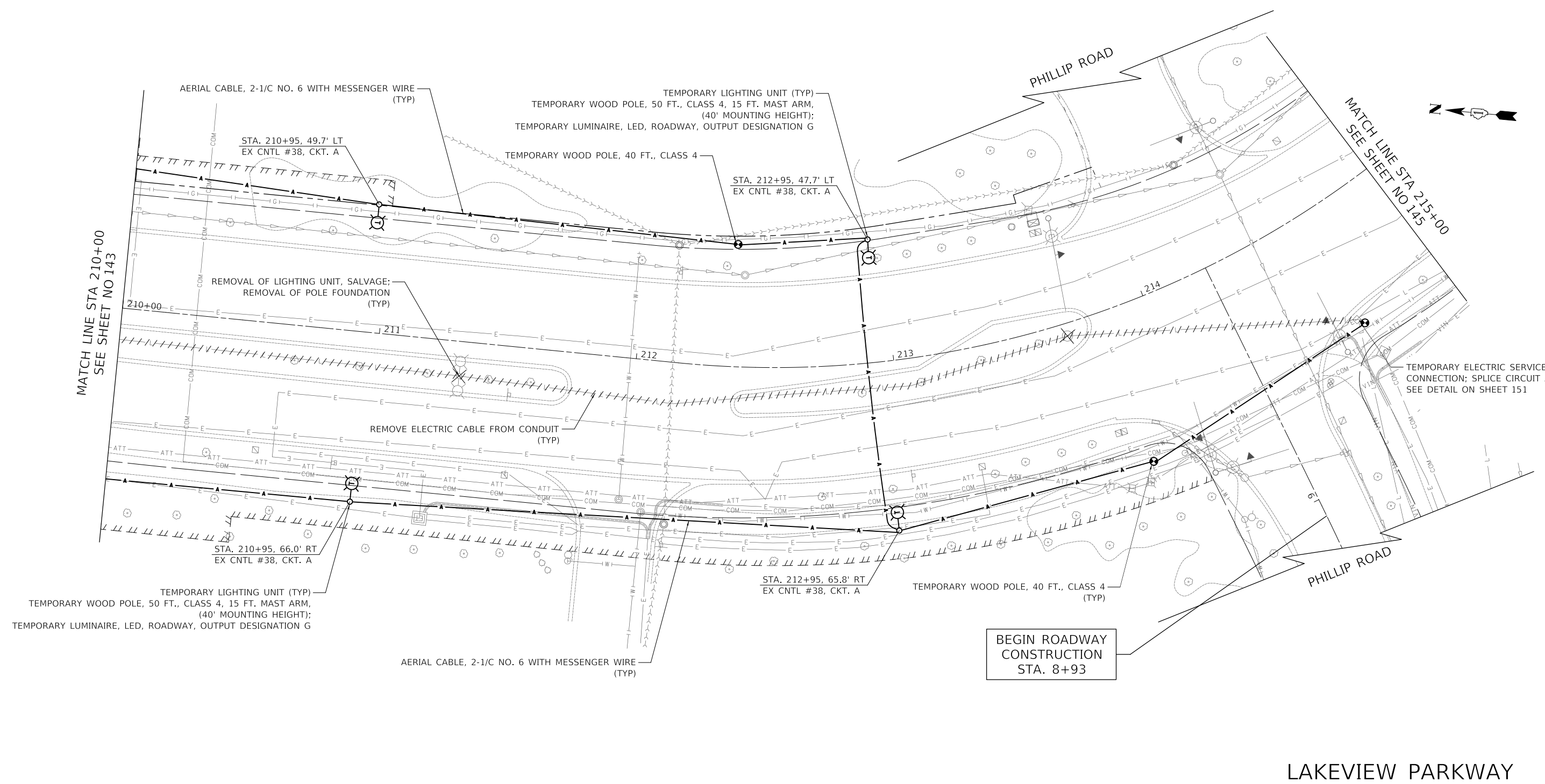
LAKEVIEW PARKWAY IMPROVEMENT
TEMPORARY LIGHTING PLAN

SHEET 2 OF 5 SHEETS STA 205+00 TO STA 210+00

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
2419	98-00026-02-WR	LAKE	210	143
CONTRACT NO 61115				
ILLINOIS FED AID PROJECT				

PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNMENT CHECKED	
	CONSTRUCTION CHECKED	
	FILE NAME	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NO.	



MATCH LINE STA 210+00
SEE SHEET NO 143

MATCH LINE STA 215+00
SEE SHEET NO 145

BEGIN ROADWAY
CONSTRUCTION
STA. 8+93

LAKEVIEW PARKWAY

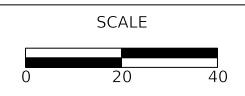
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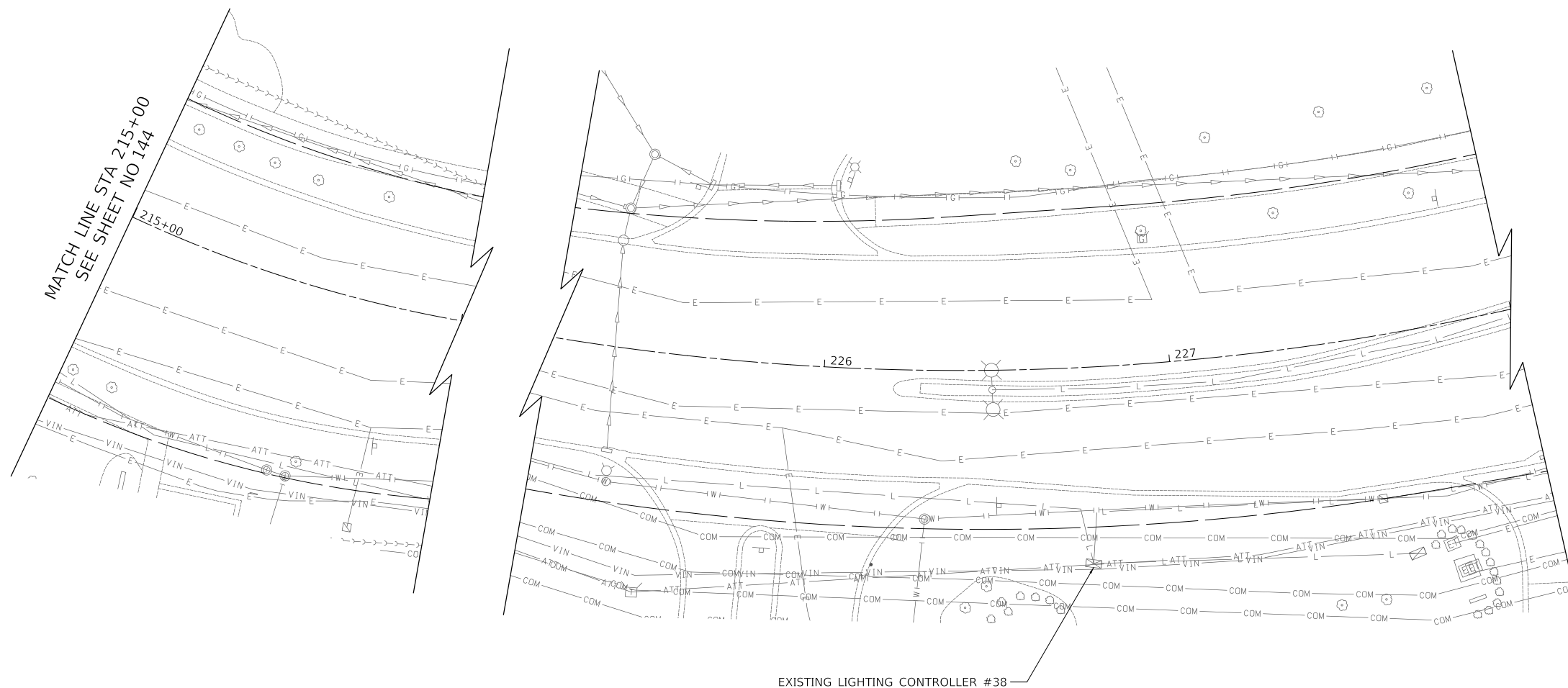
LAKEVIEW PARKWAY IMPROVEMENT
TEMPORARY LIGHTING PLAN

SHEET 3 OF 5 SHEETS STA 210+00 TO STA 215+00

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
2419	98-00026-02-WR	LAKE	210	144
CONTRACT NO 61115				
ILLINOIS FED AID PROJECT				

PLAN	SURVEYED	DATE
	PLOTTED	
NOTE BOOK NO.	ALIGNED	
	CHECKED	
	FILE NAME	

PROFILE	SURVEYED	DATE
	PLOTTED	
NOTE BOOK NO.	GRADES CHECKED	
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LAKEVIEW PARKWAY

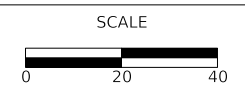
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FILE NAME: ...3447.LR01.dgn



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DATE -	11/02/2022	REVISED -	

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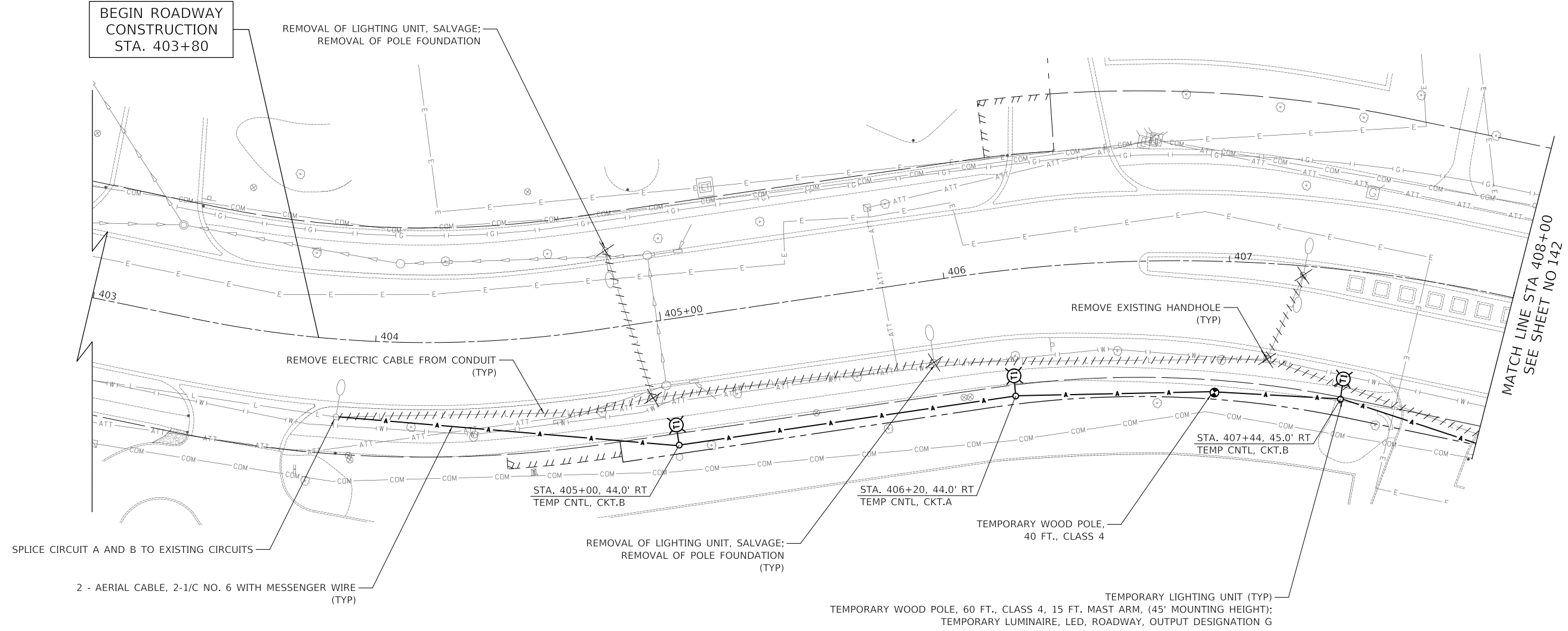
LAKEVIEW PARKWAY IMPROVEMENT
TEMPORARY LIGHTING PLAN

SHEET 4 OF 5 SHEETS STA 215+00 TO STA 220+00

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
2419	98-00026-02-WR	LAKE	210	145
CONTRACT NO 61115				
ILLINOIS		FED AID PROJECT		

PLAN	SURVEYED	DATE
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HAWTHORN PARKWAY

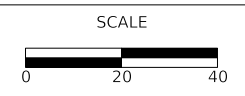
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LAKEVIEW PARKWAY IMPROVEMENT
TEMPORARY LIGHTING PLAN

SHEET 5 OF 5 SHEETS STA 403+00 TO STA 407+00

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
2419	98-00026-02-WR	LAKE	210	146
CONTRACT NO 61115				
ILLINOIS FED AID PROJECT				

PLAN	SURVEYED	DATE
	PLOTTED	BY
NOTE BOOK NO.	ALIGNMENT CHECKED	
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PROFILE	SURVEYED	DATE
	PLOTTED	BY
NOTE BOOK NO.	GRADES CHECKED	
	STRUCTURE NOTATION CHECKED	

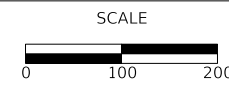
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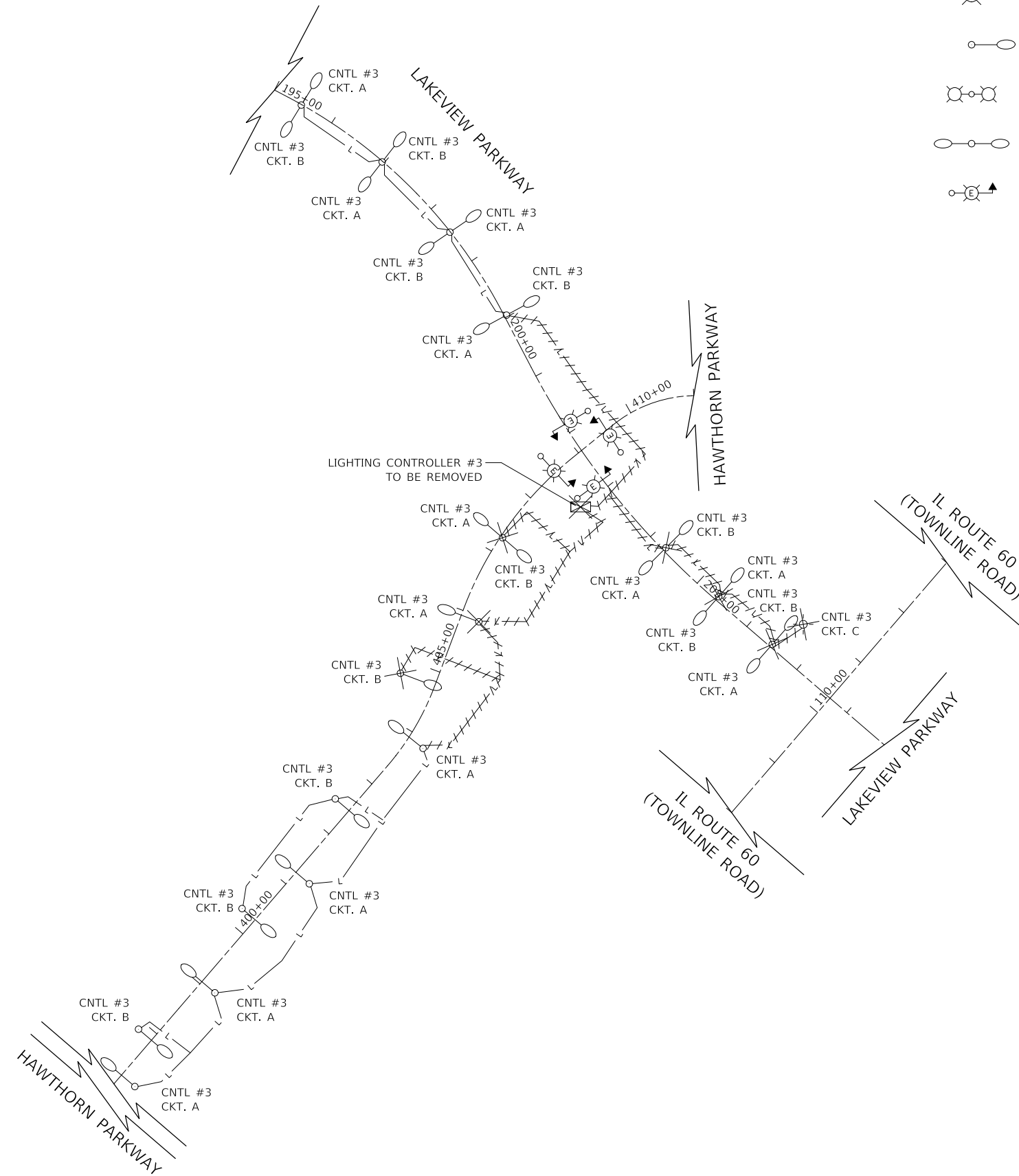
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LAKEVIEW PARKWAY IMPROVEMENT
LIGHTING PLAN - EXISTING WIRING DIAGRAM

SHEET OF SHEETS STA TO STA

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
2419	98-00026-02-WR	LAKE	210	147
CONTRACT NO 61115				
ILLINOIS		FED AID PROJECT		



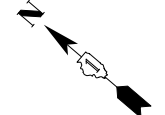
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- EXISTING LIGHT POLE WITH SIDE TENON MOUNTING ARM AND SHOE BOX LUMINAIRE
- EXISTING 30 FOOT LIGHT POLE, 6 FOOT MAST ARM, SHOE BOX LUMINAIRE
- EXISTING LIGHT POLE WITH TWIN SIDE TENON MOUNTING ARM AND SHOE BOX LUMINAIRE
- EXISTING 30 FOOT LIGHT POLE WITH TWIN 6 FOOT MAST ARM AND SHOE BOX LUMINAIRE
- EXISTING COMBINATION TRAFFIC SIGNAL POLE

- EXISTING LIGHTING CABLES
- EXISTING HANDHOLE
- EXISTING CONTROLLER
- EXISTING LIGHTING UNIT TO BE REMOVED
- EXISTING LIGHTING CONTROLLER TO BE REMOVED
- EXISTING HANDHOLE TO BE REMOVED
- REMOVE ELECTRIC CABLE FROM CONDUIT
- EXISTING LIGHT BOLLARD TO BE REMOVED

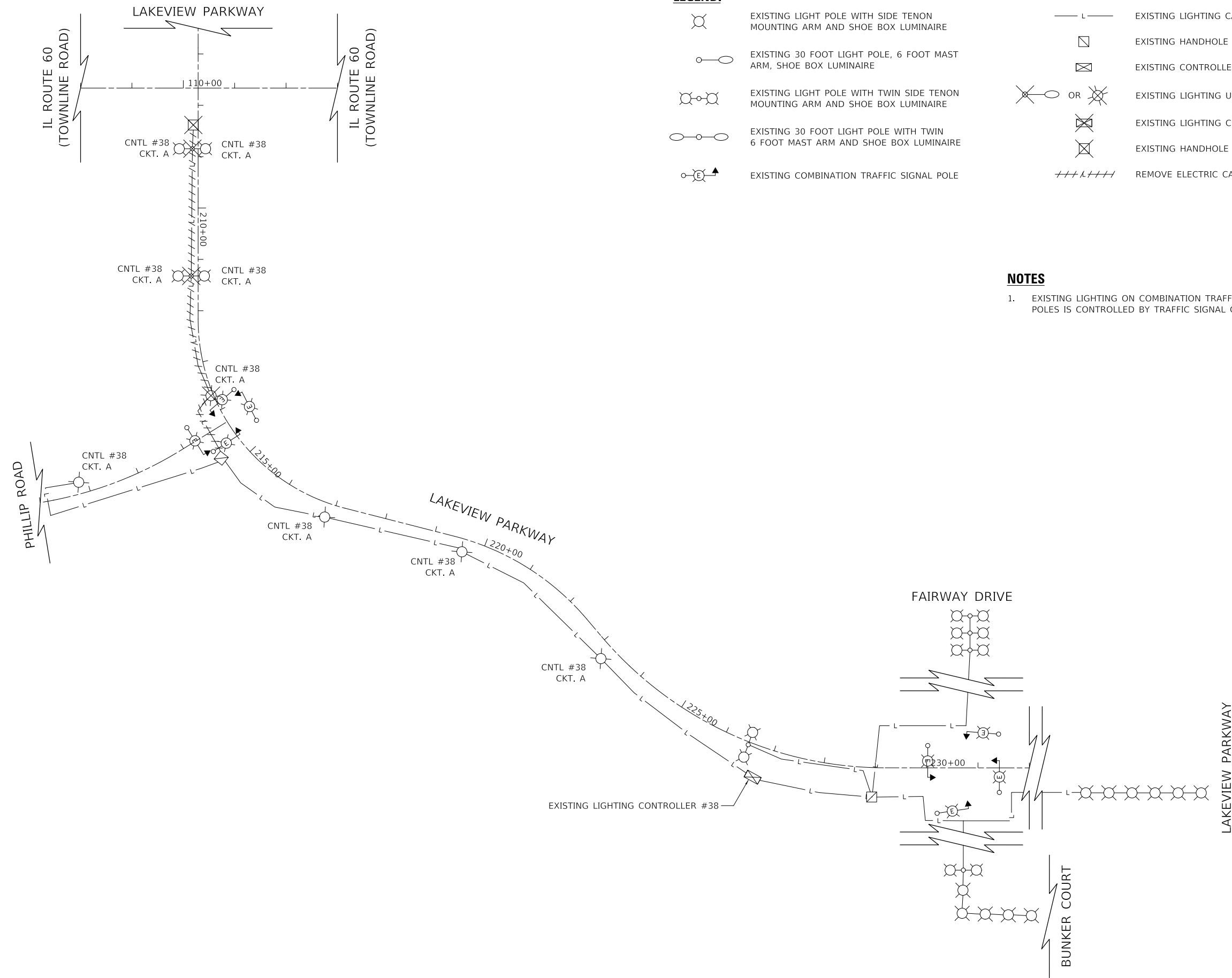
NOTES

1. EXISTING LIGHTING ON COMBINATION TRAFFIC SIGNAL POLES IS CONTROLLED BY TRAFFIC SIGNAL CONTROLLER




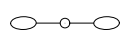

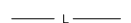


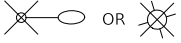



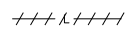


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PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NO.	
	BY	
	DATE	



LEGEND:

-  EXISTING LIGHT POLE WITH SIDE TENON MOUNTING ARM AND SHOE BOX LUMINAIRE
-  EXISTING 30 FOOT LIGHT POLE, 6 FOOT MAST ARM, SHOE BOX LUMINAIRE
-  EXISTING LIGHT POLE WITH TWIN SIDE TENON MOUNTING ARM AND SHOE BOX LUMINAIRE
-  EXISTING 30 FOOT LIGHT POLE WITH TWIN 6 FOOT MAST ARM AND SHOE BOX LUMINAIRE
-  EXISTING COMBINATION TRAFFIC SIGNAL POLE
-  EXISTING LIGHTING CABLES
-  EXISTING HANDHOLE
-  EXISTING CONTROLLER
-  OR  EXISTING LIGHTING UNIT TO BE REMOVED
-  EXISTING LIGHTING CONTROLLER TO BE REMOVED
-  EXISTING HANDHOLE TO BE REMOVED
-  REMOVE ELECTRIC CABLE FROM CONDUIT

NOTES

- EXISTING LIGHTING ON COMBINATION TRAFFIC SIGNAL POLES IS CONTROLLED BY TRAFFIC SIGNAL CONTROLLER



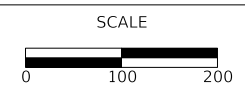
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FILE NAME: ...3447.Lpd.dgn



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**LAKEVIEW PARKWAY IMPROVEMENT
LIGHTING PLAN – EXISTING WIRING DIAGRAM**

SHEET OF SHEETS STA TO STA



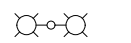
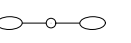
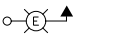


FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
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CONTRACT NO 61115				
ILLINOIS FED AID PROJECT				

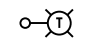
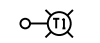



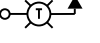
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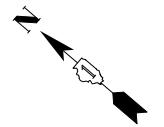
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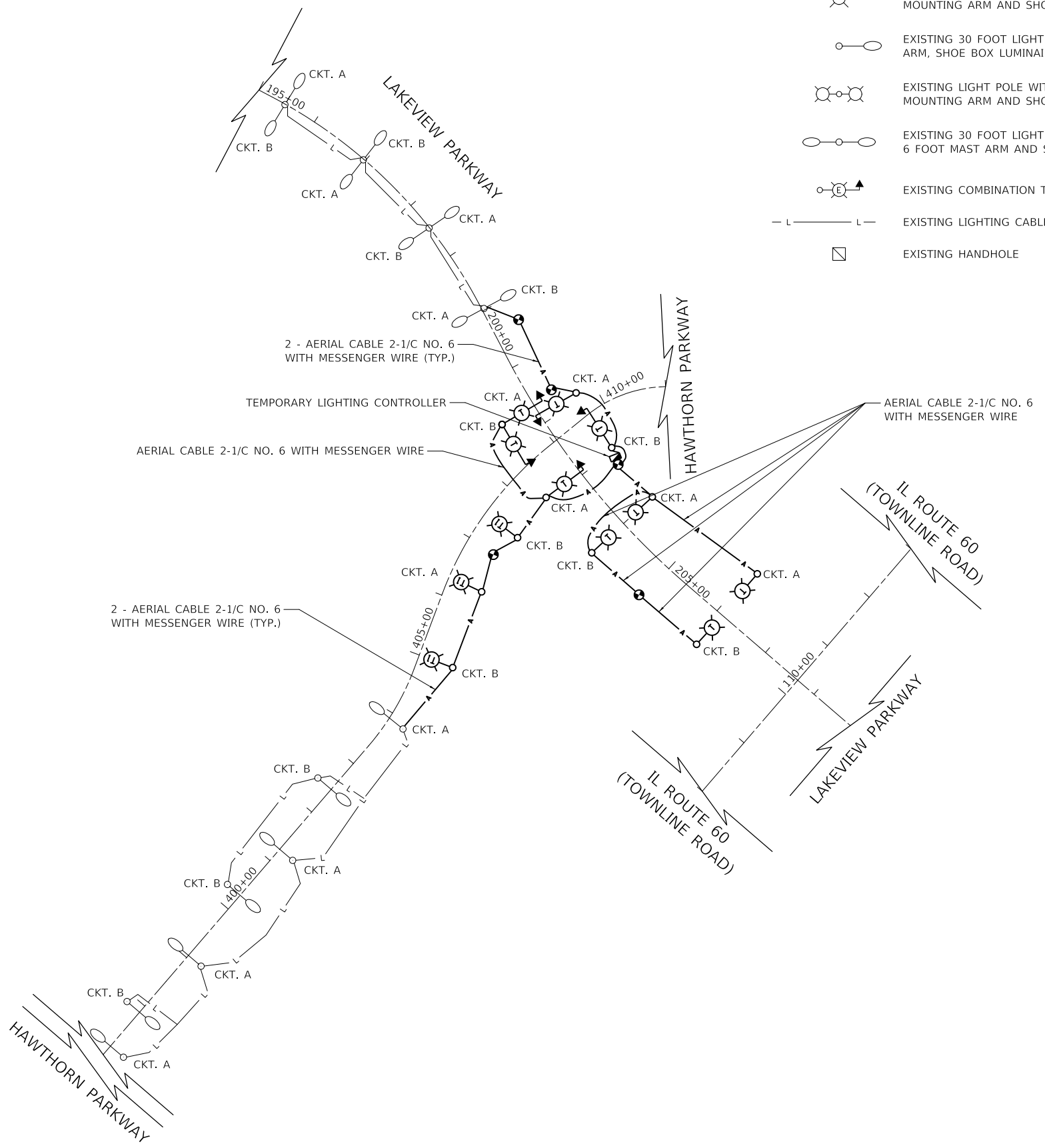
-  EXISTING LIGHT POLE WITH SIDE TENON MOUNTING ARM AND SHOE BOX LUMINAIRE
-  EXISTING 30 FOOT LIGHT POLE, 6 FOOT MAST ARM, SHOE BOX LUMINAIRE
-  EXISTING LIGHT POLE WITH TWIN SIDE TENON MOUNTING ARM AND SHOE BOX LUMINAIRE
-  EXISTING 30 FOOT LIGHT POLE WITH TWIN 6 FOOT MAST ARM AND SHOE BOX LUMINAIRE
-  EXISTING COMBINATION TRAFFIC SIGNAL POLE
-  EXISTING LIGHTING CABLES
-  EXISTING HANDHOLE

-  TEMPORARY LIGHTING UNIT
50 FOOT WOOD POLE (40' MOUNTING HEIGHT), 15 FOOT MAST ARM
TEMPORARY LUMINAIRE LED, ROADWAY
-  TEMPORARY LIGHTING UNIT
60 FOOT WOOD POLE (45' MOUNTING HEIGHT), 15 FOOT MAST ARM
TEMPORARY LUMINAIRE LED, ROADWAY
-  TEMPORARY AERIAL CABLES
-  TEMPORARY LIGHTING CONTROLLER
-  TEMPORARY WOOD POLE - 40 FOOT WOOD POLE
-  TEMPORARY COMBINATION TRAFFIC SIGNAL AND LIGHT POLE
40 FOOT MOUNTING HEIGHT, 15 FOOT MAST ARM (SEE TRAFFIC SIGNAL PLANS)
TEMPORARY LUMINAIRE LED, ROADWAY



NOTES

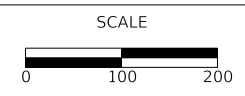
- LIGHTING ON TEMPORARY COMBINATION TRAFFIC SIGNAL AND LIGHT POLE WILL BE WIRED AND CONTROLLED BY THE TEMPORARY STREET LIGHTING CONTROLLER. SEE TRAFFIC SIGNAL PLANS FOR LOCATION OF POLE.



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DEPARTMENT OF TRANSPORTATION**



**LAKEVIEW PARKWAY IMPROVEMENT
LIGHTING PLAN - TEMPORARY WIRING DIAGRAM**

SHEET	OF	SHEETS	STA	TO	STA
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FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
2419	98-00026-02-WR	LAKE	210	149
CONTRACT NO 61115				
ILLINOIS FED AID PROJECT				

PLAN	SURVEYED	DATE
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PROFILE	SURVEYED	DATE
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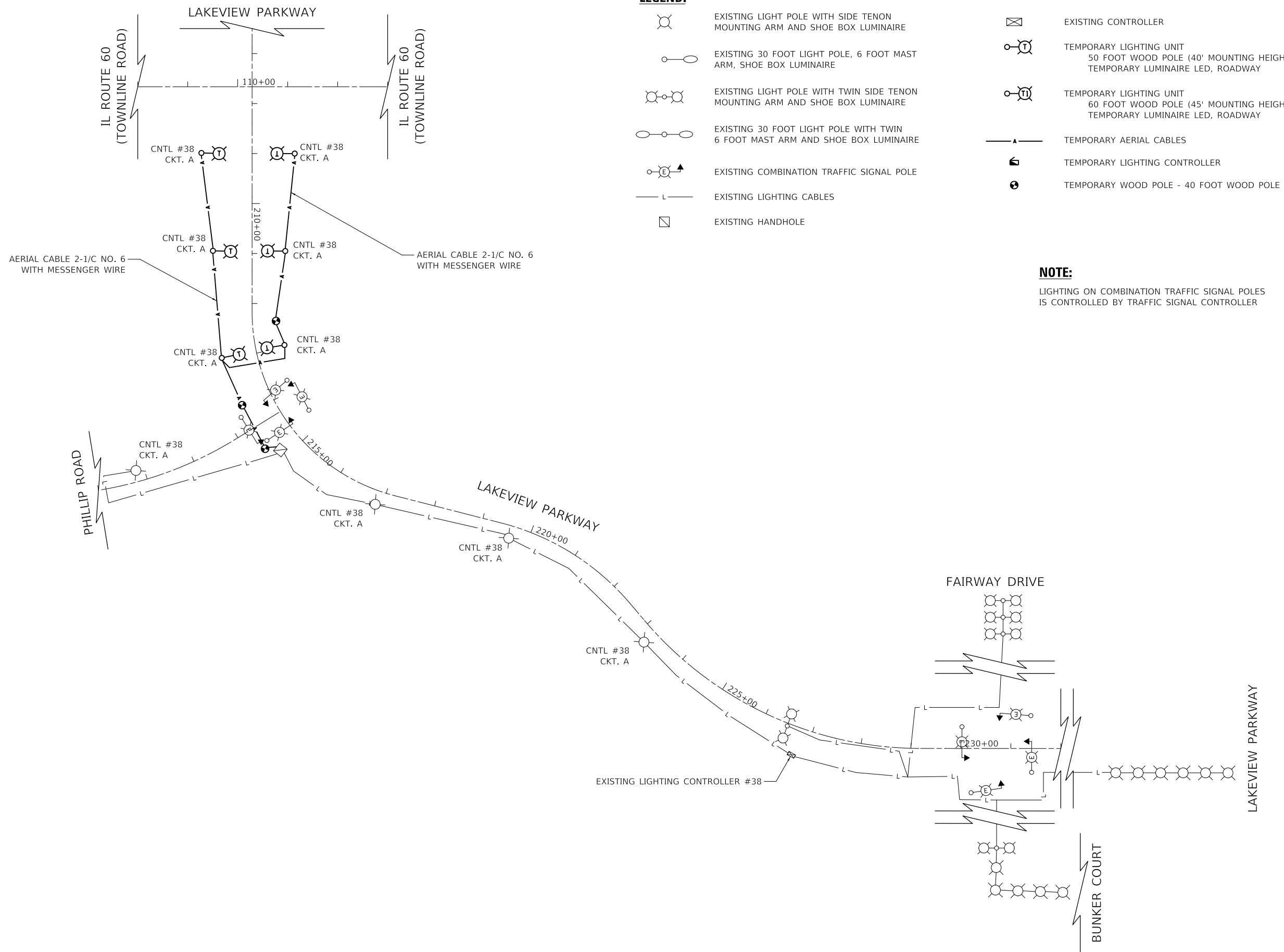
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LAKEVIEW PARKWAY IMPROVEMENT
LIGHTING PLAN – TEMPORARY WIRING DIAGRAM

SHEET OF SHEETS STA TO STA

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
2419	98-00026-02-WR	LAKE	210	150
CONTRACT NO 61115				
ILLINOIS FED AID PROJECT				



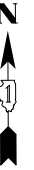
LEGEND:

- EXISTING LIGHT POLE WITH SIDE TENON MOUNTING ARM AND SHOE BOX LUMINAIRE
- EXISTING 30 FOOT LIGHT POLE, 6 FOOT MAST ARM, SHOE BOX LUMINAIRE
- EXISTING LIGHT POLE WITH TWIN SIDE TENON MOUNTING ARM AND SHOE BOX LUMINAIRE
- EXISTING 30 FOOT LIGHT POLE WITH TWIN 6 FOOT MAST ARM AND SHOE BOX LUMINAIRE
- EXISTING COMBINATION TRAFFIC SIGNAL POLE
- EXISTING LIGHTING CABLES
- EXISTING HANDHOLE

- EXISTING CONTROLLER
- TEMPORARY LIGHTING UNIT
50 FOOT WOOD POLE (40' MOUNTING HEIGHT), 15 FOOT MAST ARM
TEMPORARY LUMINAIRE LED, ROADWAY
- TEMPORARY LIGHTING UNIT
60 FOOT WOOD POLE (45' MOUNTING HEIGHT), 15 FOOT MAST ARM
TEMPORARY LUMINAIRE LED, ROADWAY
- TEMPORARY AERIAL CABLES
- TEMPORARY LIGHTING CONTROLLER
- TEMPORARY WOOD POLE - 40 FOOT WOOD POLE

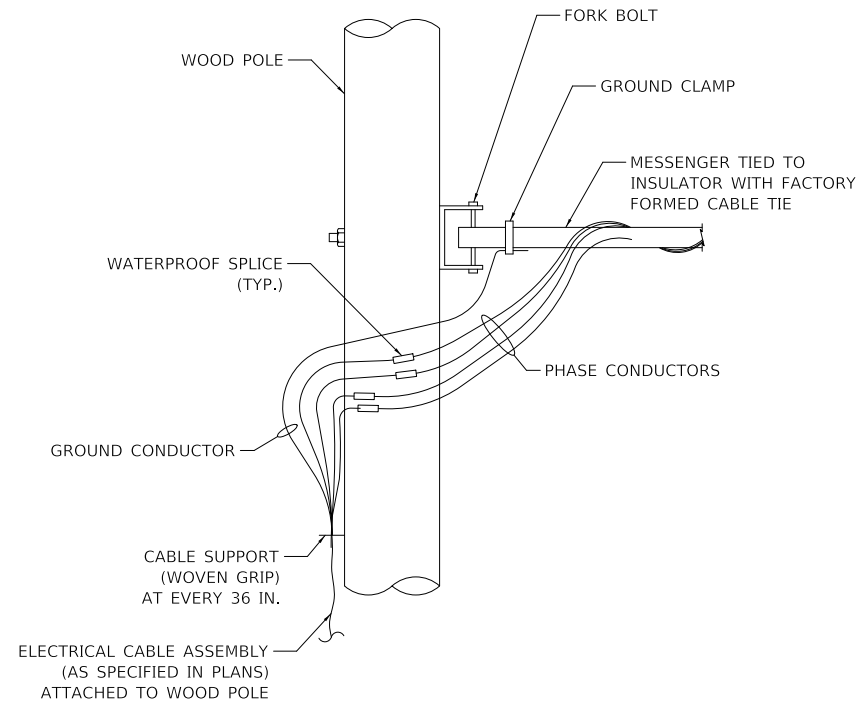
NOTE:

LIGHTING ON COMBINATION TRAFFIC SIGNAL POLES IS CONTROLLED BY TRAFFIC SIGNAL CONTROLLER



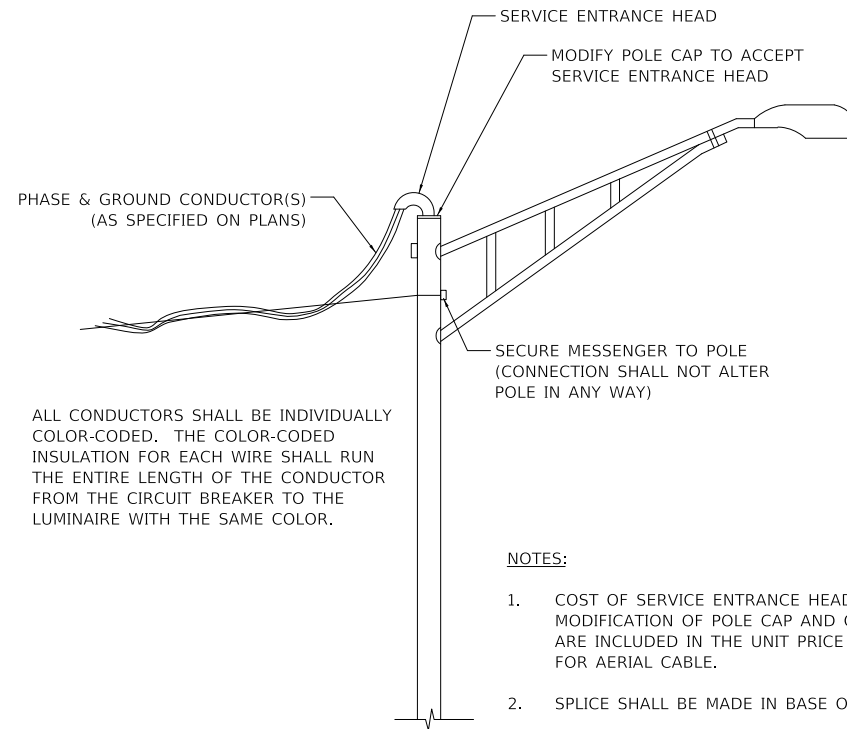
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PROFILE	SURVEYED	DATE
	PLOTTED	
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AERIAL CABLE CONNECTION DETAIL

N.T.S.

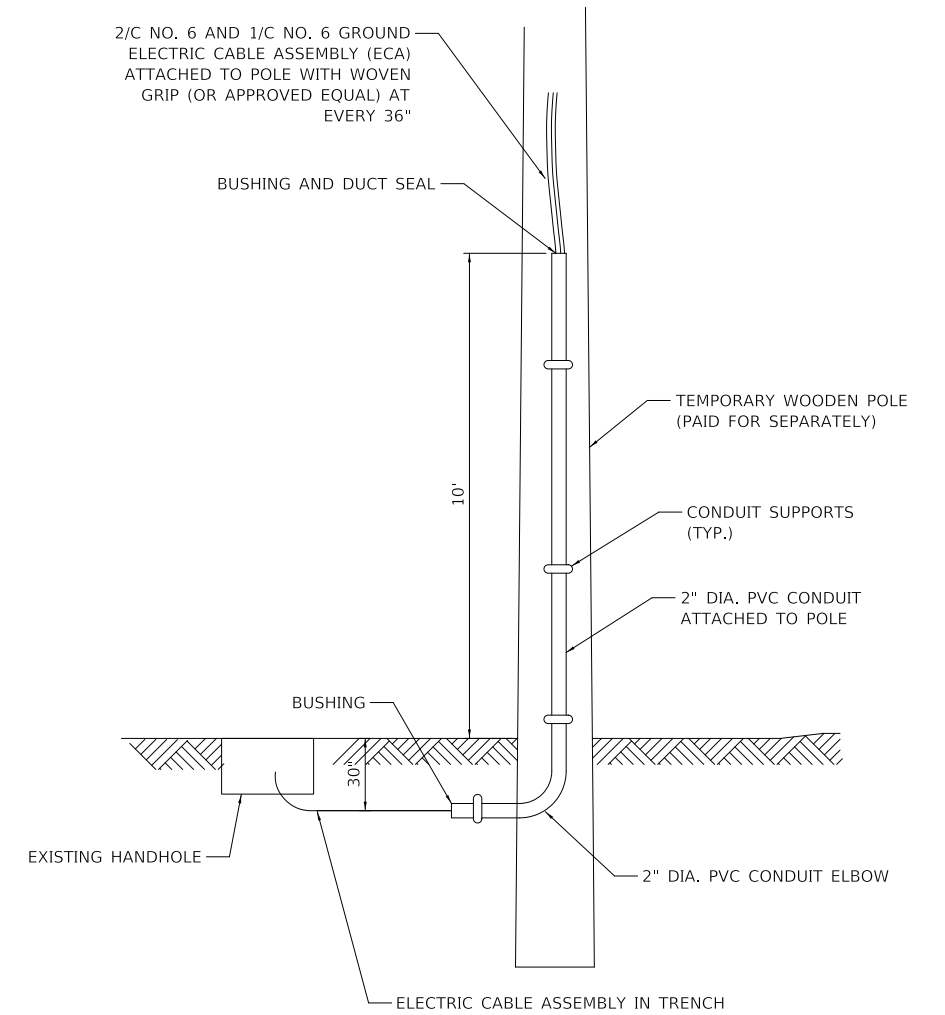


AERIAL CABLE CONNECTION TO EXISTING LIGHT POLE

N.T.S.

NOTES:

1. COST OF SERVICE ENTRANCE HEAD, MODIFICATION OF POLE CAP AND CONNECTION ARE INCLUDED IN THE UNIT PRICE FOR AERIAL CABLE.
2. SPLICE SHALL BE MADE IN BASE OF POLE.



TEMPORARY ELECTRIC SERVICE CONNECTION DETAIL

N.T.S.

MODEL: SMODELNAME
FILE NAME: ...3447_LR07.dgn



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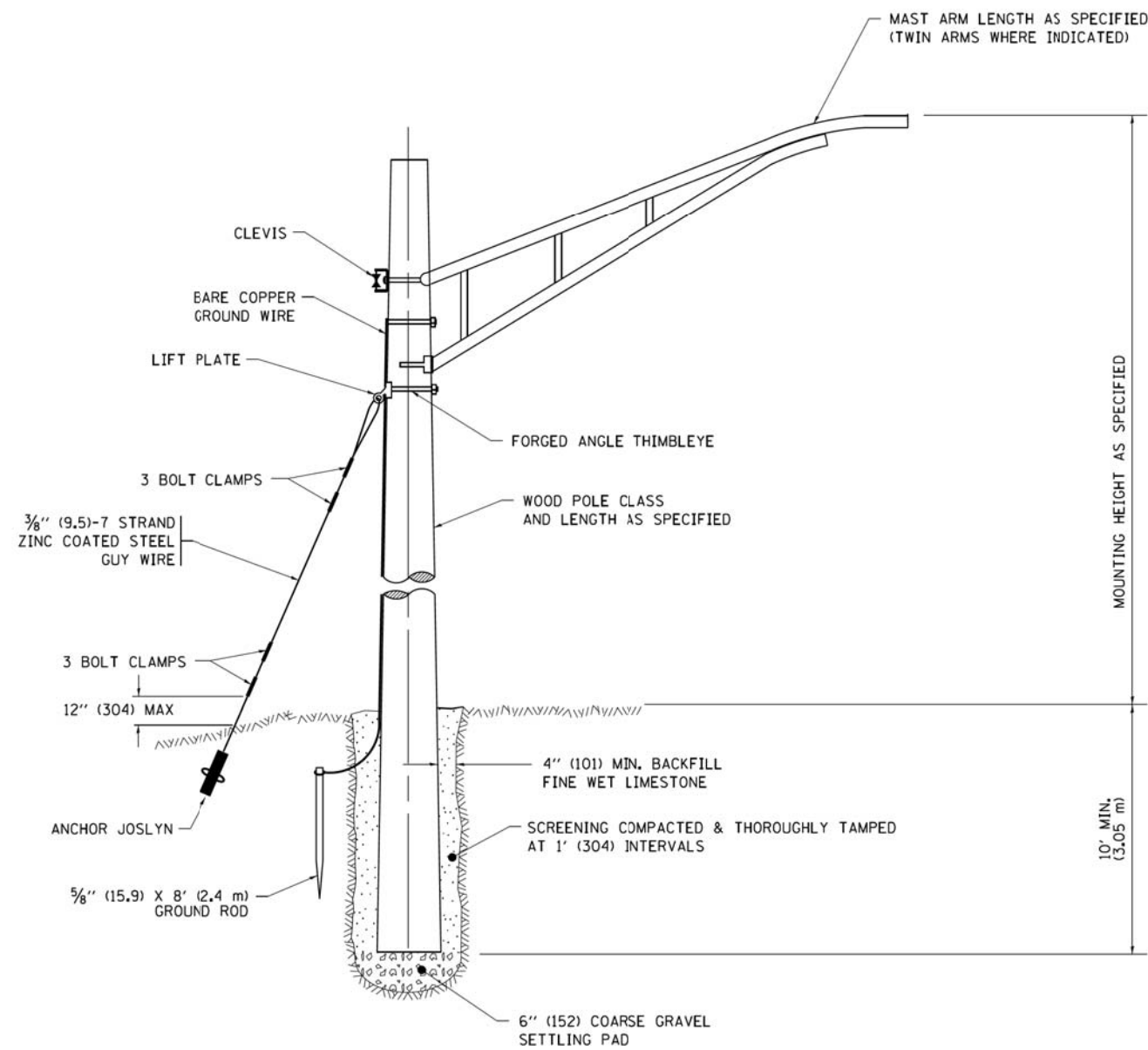
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DRAWN	-	JRR	REVISED	-
CHECKED	-	KRK	REVISED	-
DATE	-	11/02/2022	REVISED	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LAKEVIEW PARKWAY IMPROVEMENT
TEMPORARY LIGHTING DETAILS**

N.T.S SHEET 1 OF 1 SHEETS STA TO STA

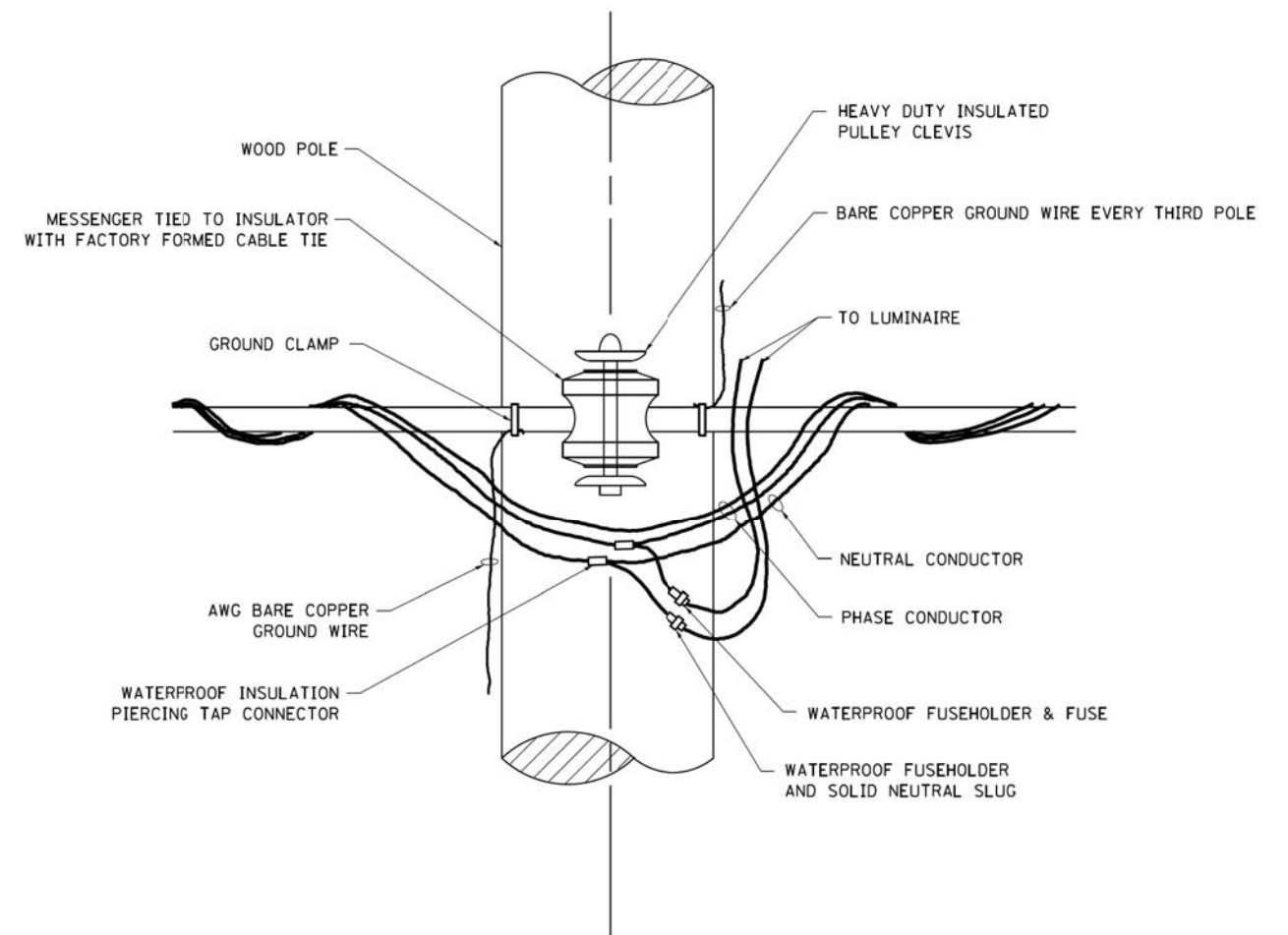
FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
2419	98-00026-02-WR	LAKE	210	151
CONTRACT NO 61115				
ILLINOIS FED AID PROJECT				



TEMPORARY LIGHT POLE DETAIL

NOTE:

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

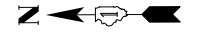
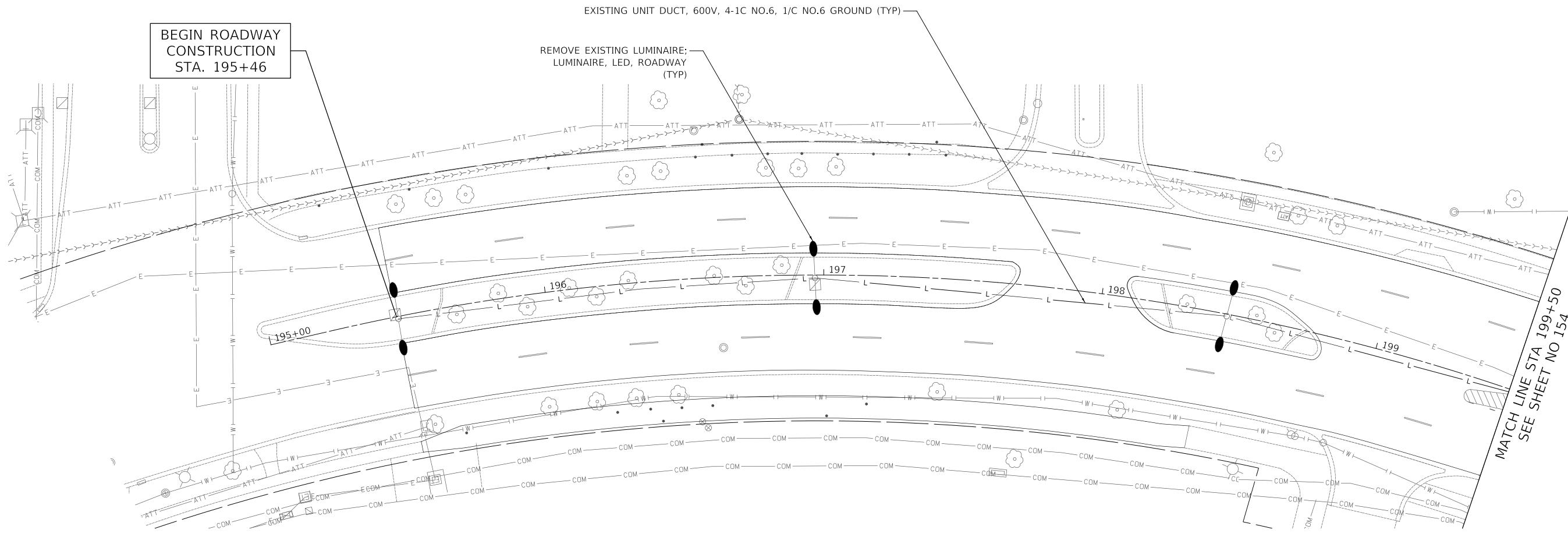


TEMPORARY LIGHT POLE ATTACHMENT DETAIL

FILE NAME *	USER NAME * footemj	DESIGNED -	REVISED - 08-08-03	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY LIGHT POLE DETAILS			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw\ll084EBIDINTEG\illinois.gov\PIWIDOT\Documents\IDOT Offices\District 1\Projects\Dist 1\B... DRAWN\CADData\CADsheets\be800.dgn		REVISIONS	REVISED - R.T. 07-26-16					2419	98-00026-02-WR	LAKE	210	152
Default	PLOT SCALE = 50,000' / 1" =	CHECKED -	REVISED -		BE-800		CONTRACT NO.		ILLINOIS FED. AID PROJECT			
	PLOT DATE = 9/1/2016	DATE -	REVISED -		SCALE: NONE	SHEET 1	OF 1 SHEETS	STA. TO STA.				

PLAN	SURVEYED	DATE
	PLOTTED	BY
	ALIGNMENT CHECKED	
	NOTE BOOK NO.	
	FILE NAME	

PROFILE	SURVEYED	DATE
	GRADES CHECKED	BY
	STRUCTURE NOTATIONS CHECKED	
	NOTE BOOK NO.	
	FILE NAME	



NOTES

- ALL EXISTING LUMINAIRES POWERED BY PROPOSED CONTROLLER WILL BE REPLACED WITH LUMINAIRE, LED, ROADWAY

LAKEVIEW PARKWAY

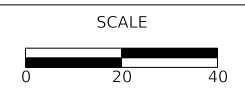
MODEL: SMODEL\MAMES
FILE NAME: ...3447.LR08.dgn



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CHECKED	-	KRK	REVISED	-
DATE	-	11/02/2022	REVISED	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**



**LAKEVIEW PARKWAY IMPROVEMENT
LIGHTING PLAN**

SHEET 1 OF 6 SHEETS STA 195+46 TO STA 199+50

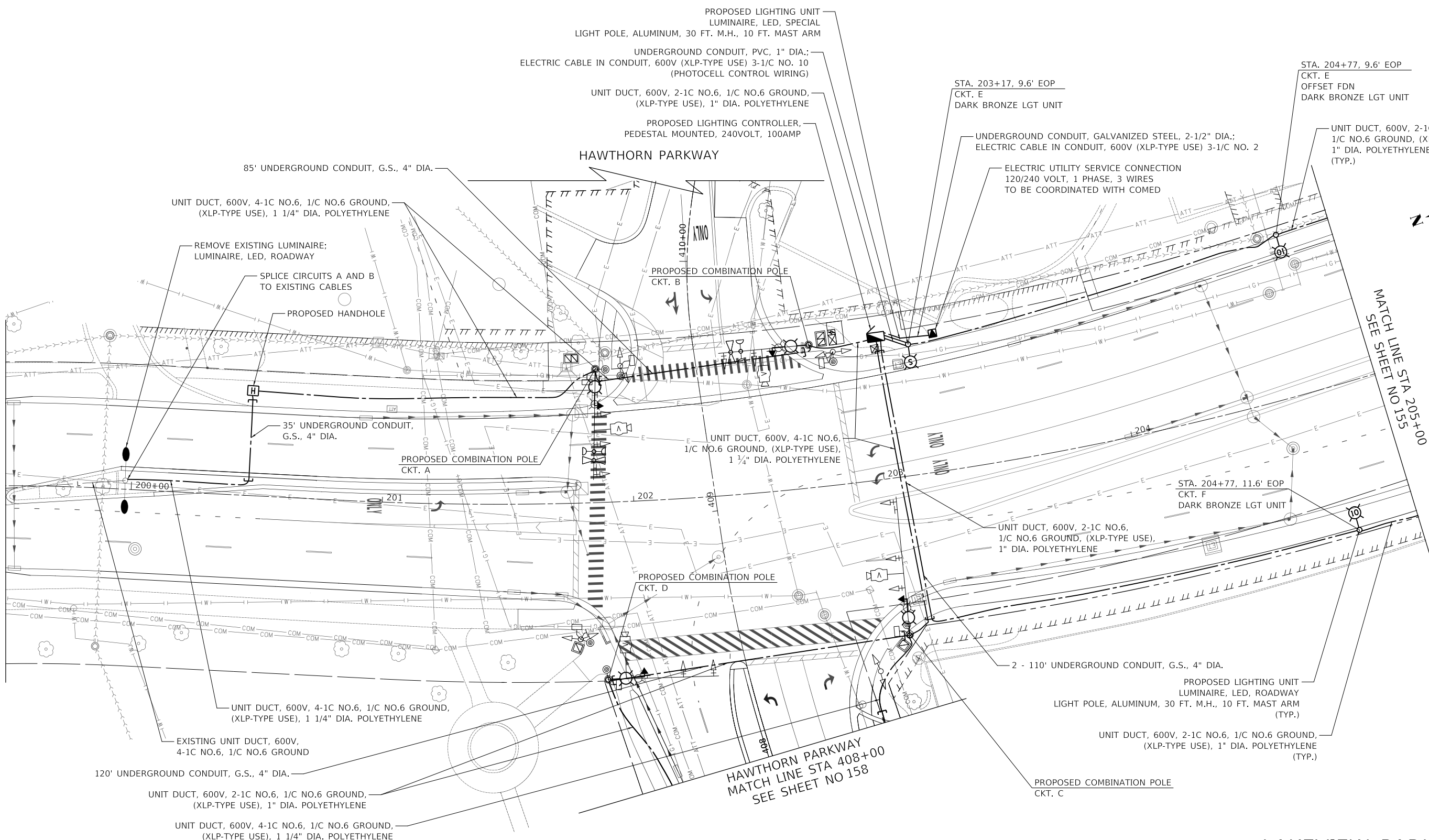
FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
2419	98-00026-02-WR	LAKE	210	153
CONTRACT NO 61115				
ILLINOIS FED AID PROJECT				

PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNED	
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	FILED	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES	
	CHECKED	
	STRUCTURE	
	NOTATIONS	
	NO.	

MATCH LINE STA 199+50
SEE SHEET NO 47

MATCH LINE STA 205+100
SEE SHEET NO 155



NOTES

- ALL EXISTING LUMINAIRES POWERED BY PROPOSED CONTROLLER WILL BE REPLACED WITH LUMINAIRE, LED, ROADWAY
- LIGHTING ON PROPOSED COMBINATION TRAFFIC SIGNAL AND LIGHT POLE WILL BE WIRED AND CONTROLLED BY THE PROPOSED STREET LIGHTING CONTROLLER. SEE TRAFFIC SIGNAL PLANS FOR LOCATION OF POLE.

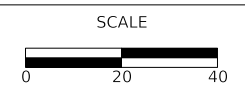
LAKEVIEW PARKWAY



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CHECKED	-	KRK	REVISED	-
DATE	-	11/02/2022	REVISED	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**



**LAKEVIEW PARKWAY IMPROVEMENT
LIGHTING PLAN**

SHEET 2 OF 6 SHEETS STA 199+50 TO STA 205+00

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
2419	98-00026-02-WR	LAKE	210	154
CONTRACT NO 61115				
ILLINOIS FED AID PROJECT				

MODEL: SHODLNAMEES
FILE NAME: ...3447.L008.dgn

PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNMENT CHECKED	
	NOTE BOOK	
	NO.	
	FILE NAME	

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	NOTE BOOK	
	NO.	
	STRUCTURE NOTATION	

MODEL: SH06LNAME5
FILE NAME: ...3447.L008.dgn



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DATE	-	11/02/2022	REVISED	-	

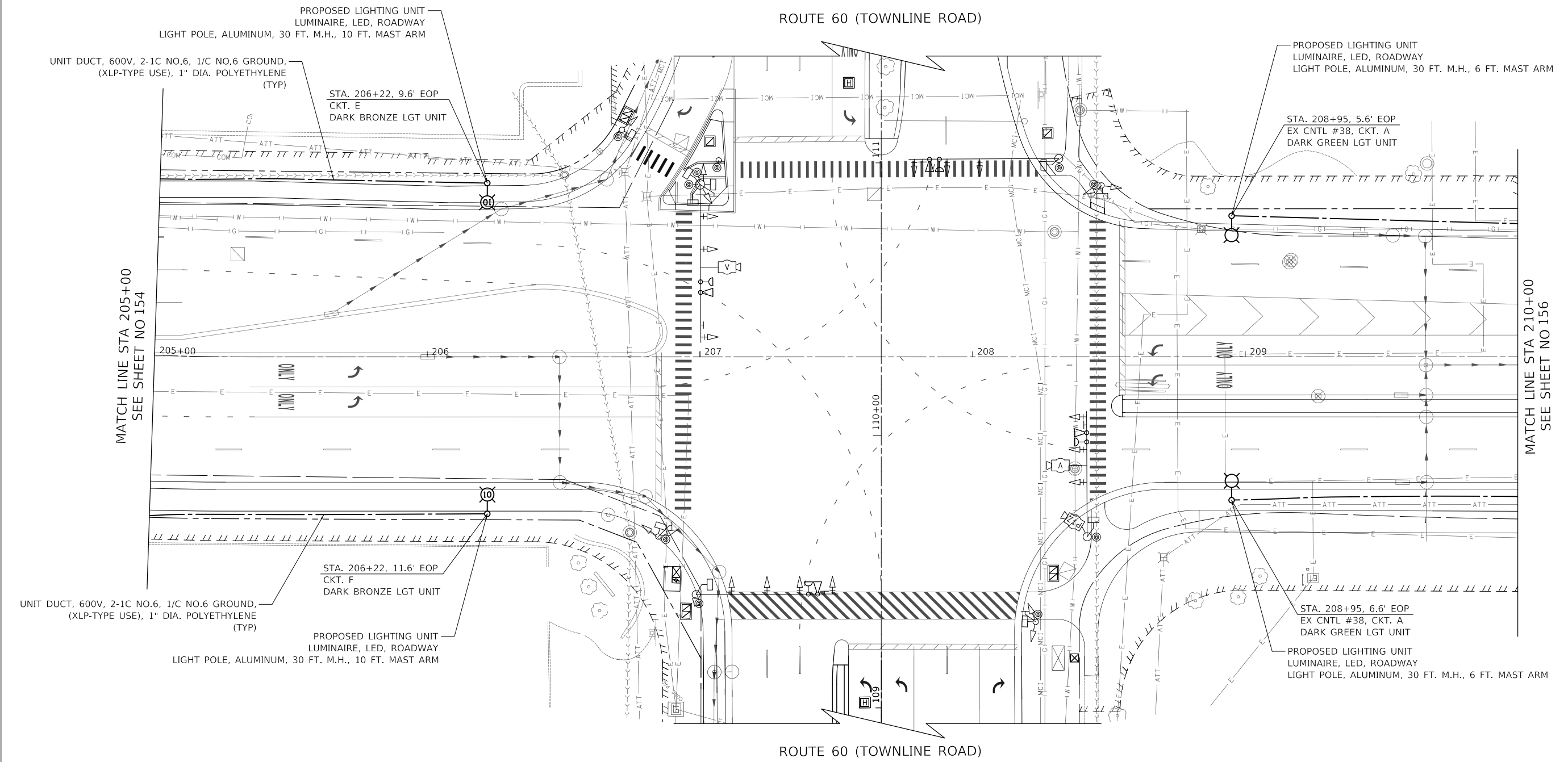
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**



**LAKEVIEW PARKWAY IMPROVEMENT
LIGHTING PLAN**

SHEET 3 OF 6 SHEETS STA 205+00 TO STA 210+00

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
2419	98-00026-02-WR	LAKE	210	155
CONTRACT NO 61115				
ILLINOIS FED AID PROJECT				



LAKEVIEW PARKWAY

PLAN	SURVEYED	DATE
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	BY	
	DATE	

PROFILE	SURVEYED	DATE
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	BY	
	DATE	

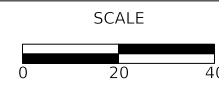
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DATE	-	11/02/2022	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

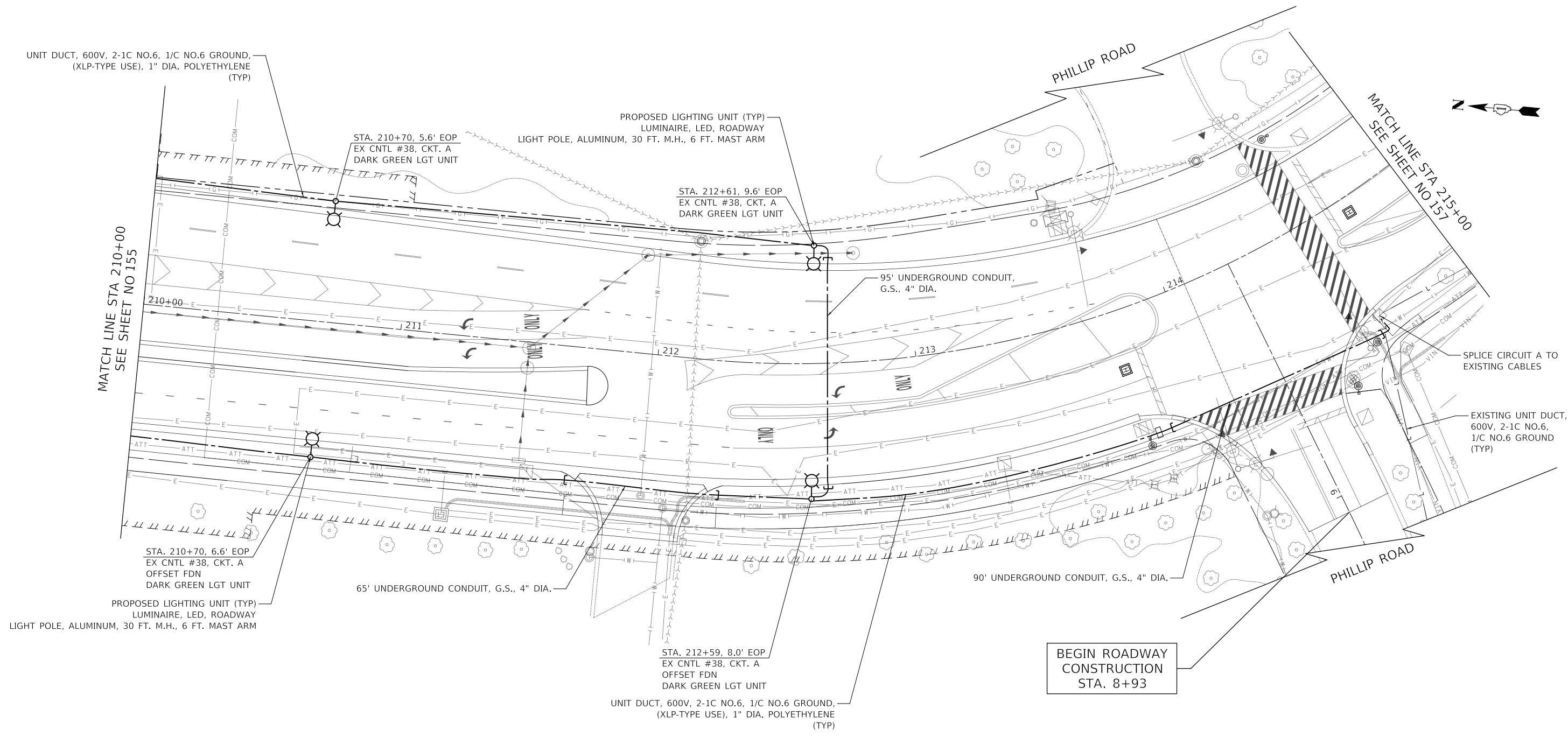


LAKEVIEW PARKWAY IMPROVEMENT
LIGHTING PLAN

SHEET 4 OF 6 SHEETS STA 210+00 TO STA 215+00

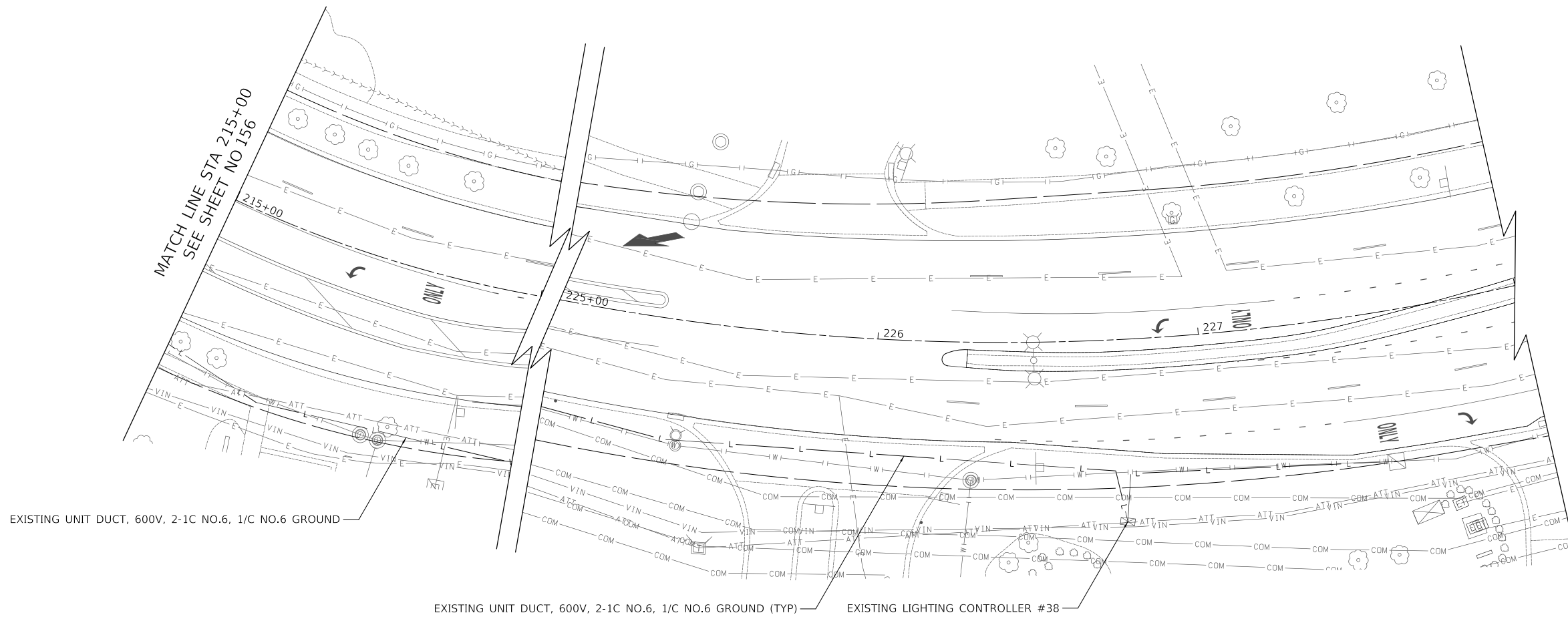
FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
2419	98-00026-02-WR	LAKE	210	156
CONTRACT NO 61115				
ILLINOIS FED AID PROJECT				

LAKEVIEW PARKWAY



PLAN	SURVEYED	DATE
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NOTE BOOK NO.	ALIGNED	
	CHECKED	
	FILE NAME	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
NOTE BOOK NO.	GRADES CHECKED	
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LAKEVIEW PARKWAY

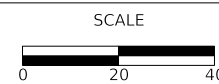
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FILE NAME: ...3447.L008.dgn



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CHECKED -	KRK	REVISED -	
DATE -	11/02/2022	REVISED -	

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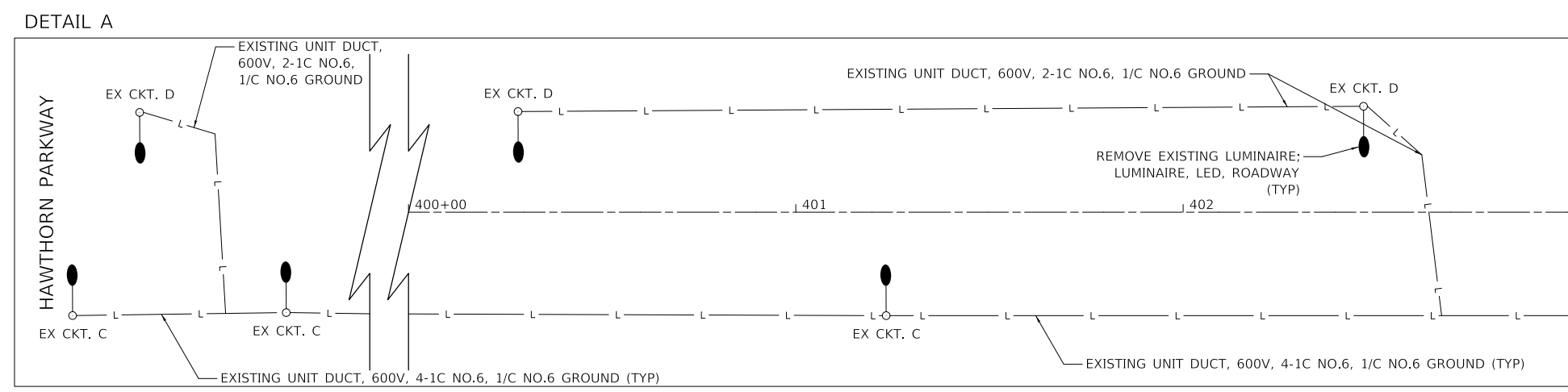
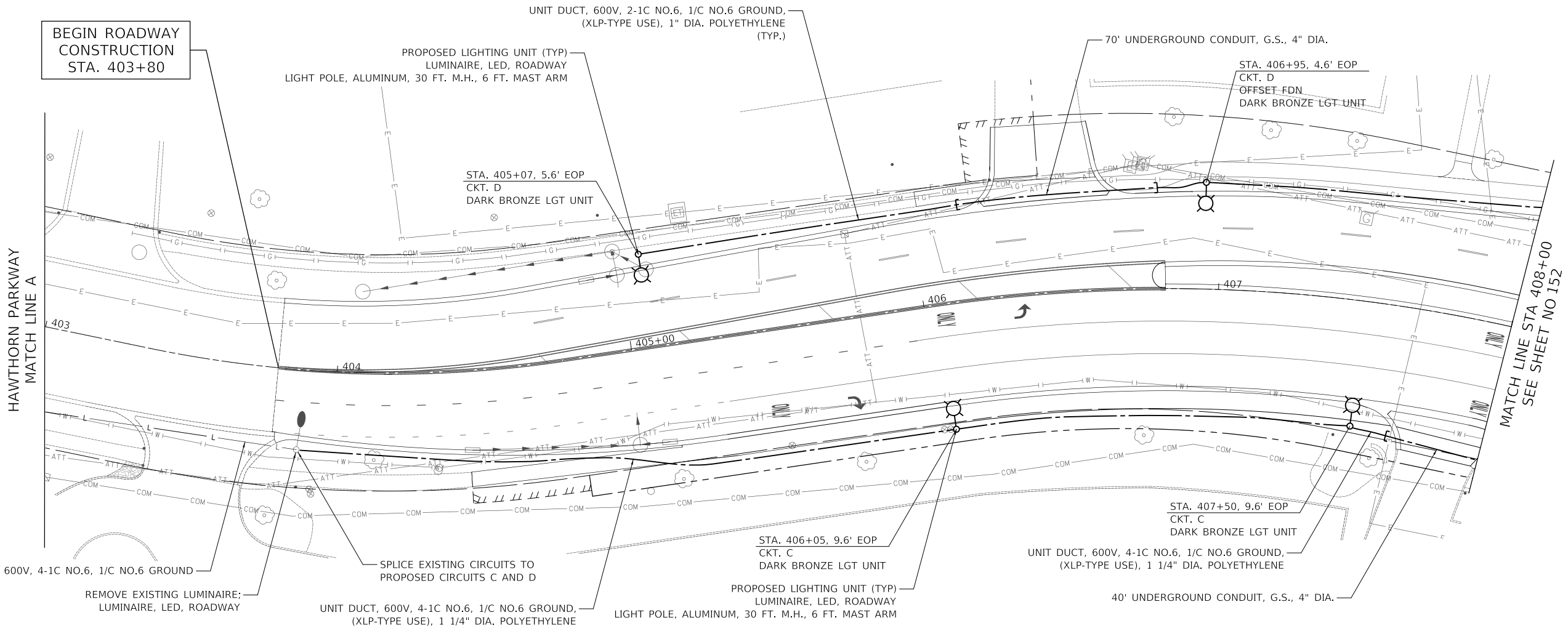
LAKEVIEW PARKWAY IMPROVEMENT
LIGHTING PLAN

SHEET 5 OF 6 SHEETS STA 215+00 TO STA 220+00

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
2419	98-00026-02-WR	LAKE	210	157
CONTRACT NO 61115				
ILLINOIS		FED AID PROJECT		

PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNMENT CHECKED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NOTE BOOK NO.	
	CADD FILE NAME	

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NOTE BOOK NO.	
	CADD FILE NAME	



NOTES

1. ALL EXISTING LUMINAIRES POWERED BY PROPOSED CONTROLLER WILL BE REPLACED WITH LUMINAIRE, LED, ROADWAY

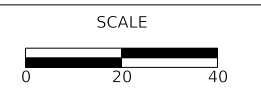
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DATE	-	11/02/2022	REVISED	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**



**LAKEVIEW PARKWAY IMPROVEMENT
LIGHTING PLAN**

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
2419	98-00026-02-WR	LAKE	210	158
CONTRACT NO 61115				
ILLINOIS FED AID PROJECT				




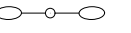




SHEET 6 OF 6 SHEETS STA 403+00 TO STA 407+00





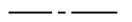


MODEL: SH06LNAME5
FILE NAME: ...31417_L009.dgn

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	ALIGNMENT CHECKED	
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	NO.	
	NOTE BOOK	
	NO.	
	CADD FILE NAME	

PROFILE	SURVEYED	DATE
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	GRADES CHECKED	
	BY	
	NO.	
	NOTE BOOK	
	NO.	
	STRUCTURE NOTATIONS CHECKED	

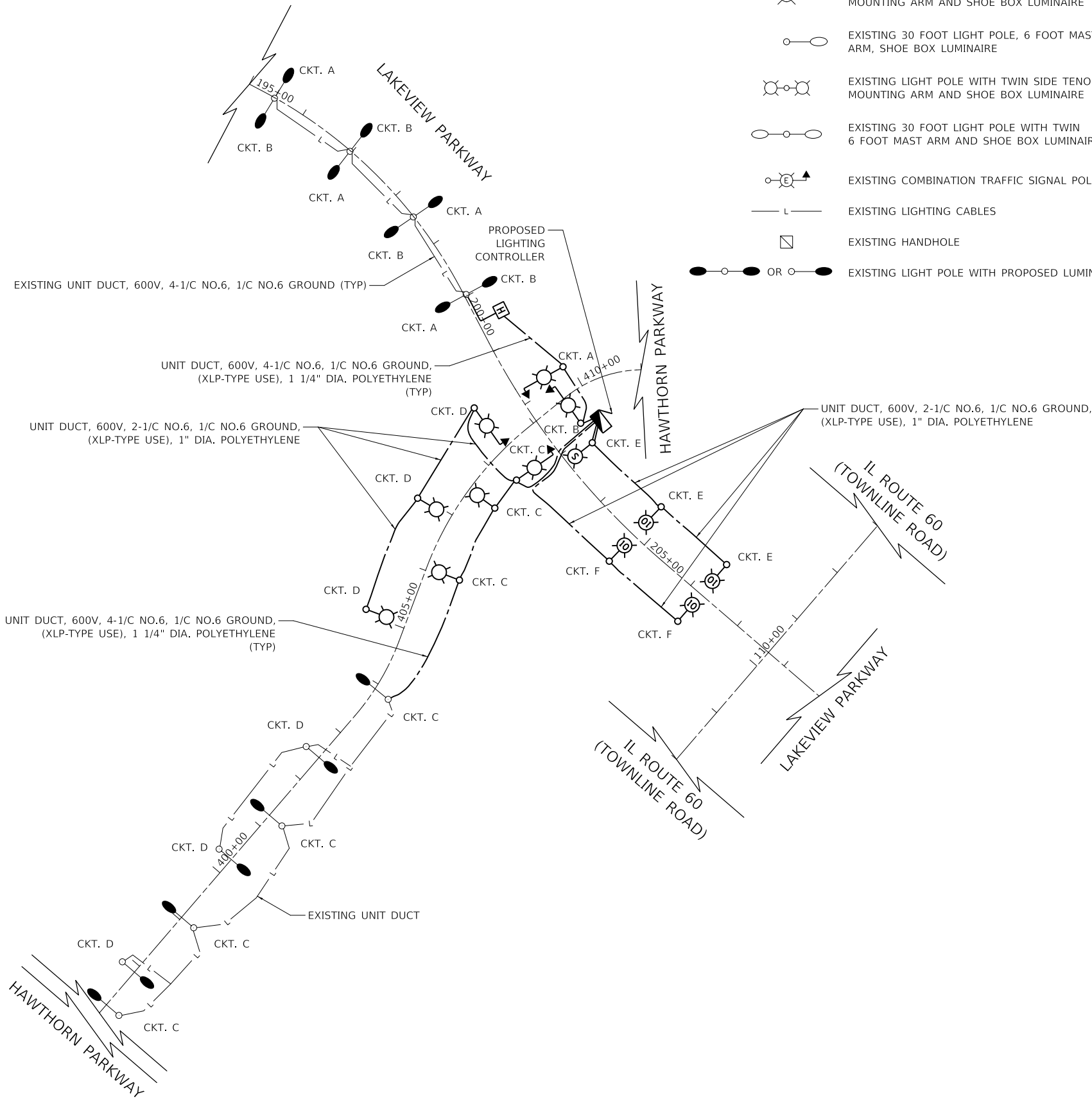
LEGEND:

-  EXISTING LIGHT POLE WITH SIDE TENON MOUNTING ARM AND SHOE BOX LUMINAIRE
-  EXISTING 30 FOOT LIGHT POLE, 6 FOOT MAST ARM, SHOE BOX LUMINAIRE
-  EXISTING LIGHT POLE WITH TWIN SIDE TENON MOUNTING ARM AND SHOE BOX LUMINAIRE
-  EXISTING 30 FOOT LIGHT POLE WITH TWIN 6 FOOT MAST ARM AND SHOE BOX LUMINAIRE
-  EXISTING COMBINATION TRAFFIC SIGNAL POLE
-  EXISTING LIGHTING CABLES
-  EXISTING HANDHOLE
-  EXISTING LIGHT POLE WITH PROPOSED LUMINAIRE, LED, ROADWAY

-  PROPOSED LIGHTING UNIT
LIGHT POLE, ALUMINUM, 30 FT. M.H., 6 FT. MAST ARM
LUMINAIRE, LED, ROADWAY (240V, 2 PHASE WIRES BLACK AND RED)
-  PROPOSED LIGHTING UNIT
LIGHT POLE, ALUMINUM, 30 FT. M.H., 10 FT. MAST ARM
LUMINAIRE, LED, ROADWAY (240V, 2 PHASE WIRES BLACK AND RED)
-  PROPOSED LIGHTING UNIT
LIGHT POLE, ALUMINUM, 30 FT. M.H., 10 FT. MAST ARM
LUMINAIRE, LED, SPECIAL (240V, 2 PHASE WIRES BLACK AND RED)
-  PROPOSED COMBINATION TRAFFIC SIGNAL AND LIGHT POLE
40 FOOT MOUNTING HEIGHT, 10 FOOT MAST ARM (SEE TRAFFIC SIGNAL PLANS)
LUMINAIRE LED, ROADWAY TYPE 2 (240V, 2 PHASE WIRES BLACK AND RED)
-  PROPOSED UNIT DUCT
-  PROPOSED HANDHOLE
-  PROPOSED LIGHTING CONTROLLER

NOTES

1. ALL EXISTING LUMINAIRES POWERED BY PROPOSED CONTROLLER WILL BE REPLACED WITH LUMINAIRE, LED, ROADWAY
2. LIGHTING ON PROPOSED COMBINATION TRAFFIC SIGNAL AND LIGHT POLE WILL BE WIRED AND CONTROLLED BY THE PROPOSED STREET LIGHTING CONTROLLER. SEE TRAFFIC SIGNAL PLANS FOR LOCATION OF POLE.



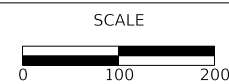
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FILE NAME: ...3447.LP10.dgn



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DEPARTMENT OF TRANSPORTATION



**LAKEVIEW PARKWAY IMPROVEMENT
LIGHTING PLAN - PROPOSED WIRING DIAGRAM**

SHEET OF SHEETS STA TO STA

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
2419	98-00026-02-WR	LAKE	210	159
CONTRACT NO 61115				
ILLINOIS FED AID PROJECT				

PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNED	
	CHECKED	
	FILED	
	CADD FILE NAME	
NOTE BOOK		
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PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
NOTE BOOK		
NO.		

MODEL: SMODELNAMER
FILE NAME: ...3447.LP11.dgn

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DATE	- 11/02/2022	REVISED	-

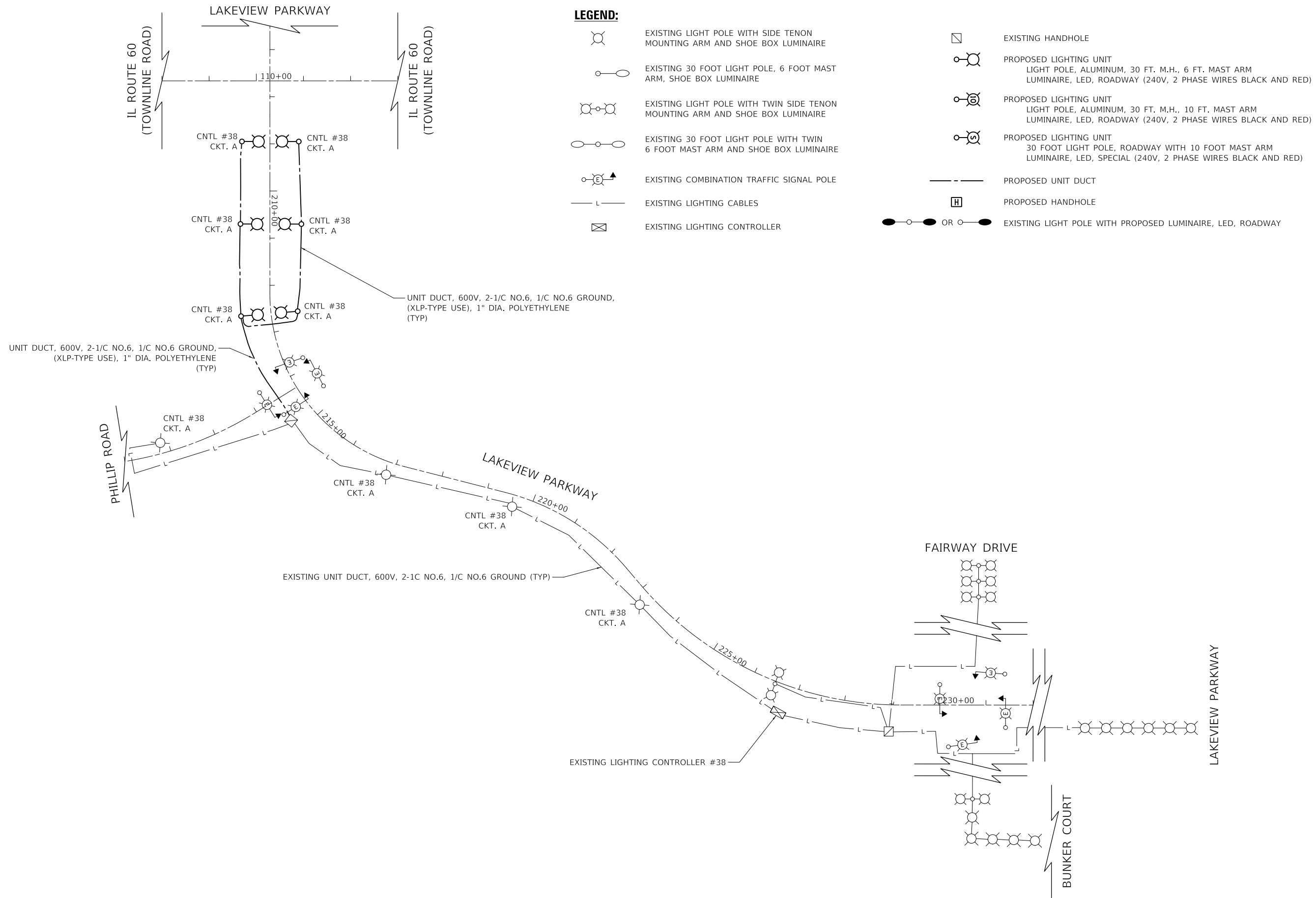
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**



**LAKEVIEW PARKWAY IMPROVEMENT
LIGHTING PLAN - PROPOSED WIRING DIAGRAM**

SHEET OF SHEETS STA TO STA

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
2419	98-00026-02-WR	LAKE	210	160
CONTRACT NO 61115				
ILLINOIS FED AID PROJECT				



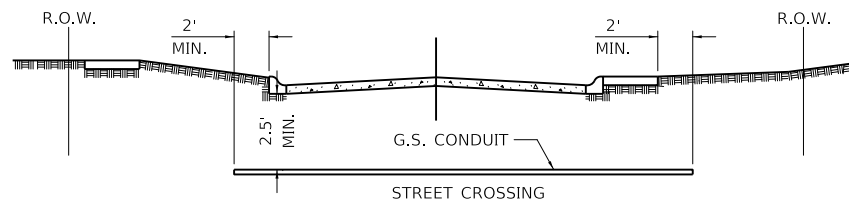
LEGEND:

- EXISTING LIGHT POLE WITH SIDE TENON MOUNTING ARM AND SHOE BOX LUMINAIRE
- EXISTING 30 FOOT LIGHT POLE, 6 FOOT MAST ARM, SHOE BOX LUMINAIRE
- EXISTING LIGHT POLE WITH TWIN SIDE TENON MOUNTING ARM AND SHOE BOX LUMINAIRE
- EXISTING 30 FOOT LIGHT POLE WITH TWIN 6 FOOT MAST ARM AND SHOE BOX LUMINAIRE
- EXISTING COMBINATION TRAFFIC SIGNAL POLE
- EXISTING LIGHTING CABLES
- EXISTING LIGHTING CONTROLLER
- EXISTING HANDHOLE
- PROPOSED LIGHTING UNIT
LIGHT POLE, ALUMINUM, 30 FT. M.H., 6 FT. MAST ARM
LUMINAIRE, LED, ROADWAY (240V, 2 PHASE WIRES BLACK AND RED)
- PROPOSED LIGHTING UNIT
LIGHT POLE, ALUMINUM, 30 FT. M.H., 10 FT. MAST ARM
LUMINAIRE, LED, ROADWAY (240V, 2 PHASE WIRES BLACK AND RED)
- PROPOSED LIGHTING UNIT
30 FOOT LIGHT POLE, ROADWAY WITH 10 FOOT MAST ARM
LUMINAIRE, LED, SPECIAL (240V, 2 PHASE WIRES BLACK AND RED)
- PROPOSED UNIT DUCT
- PROPOSED HANDHOLE
- EXISTING LIGHT POLE WITH PROPOSED LUMINAIRE, LED, ROADWAY



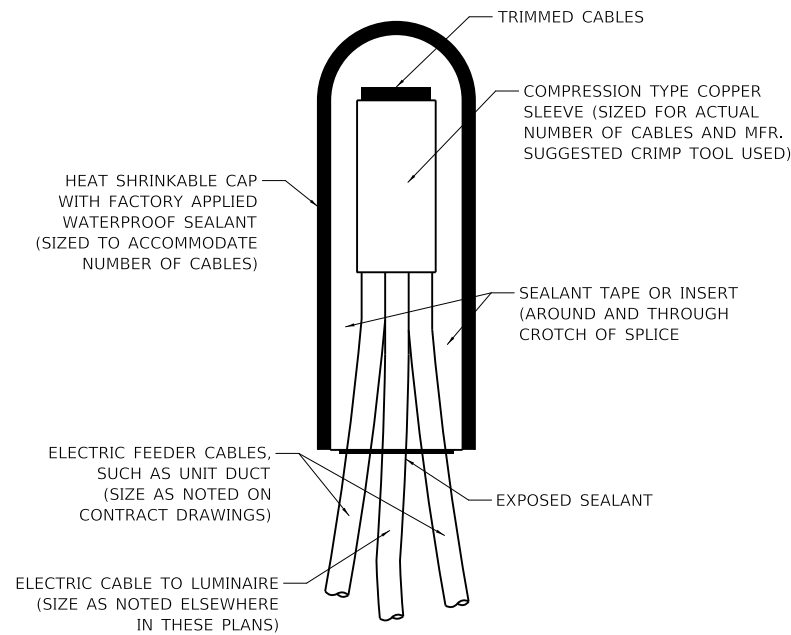
PLAN	SURVEYED	DATE
	PLOTTED	BY
NOTE BOOK NO.	ALIGNMENT CHECKED	
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PROFILE	SURVEYED	DATE
	PLOTTED	BY
NOTE BOOK NO.	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	



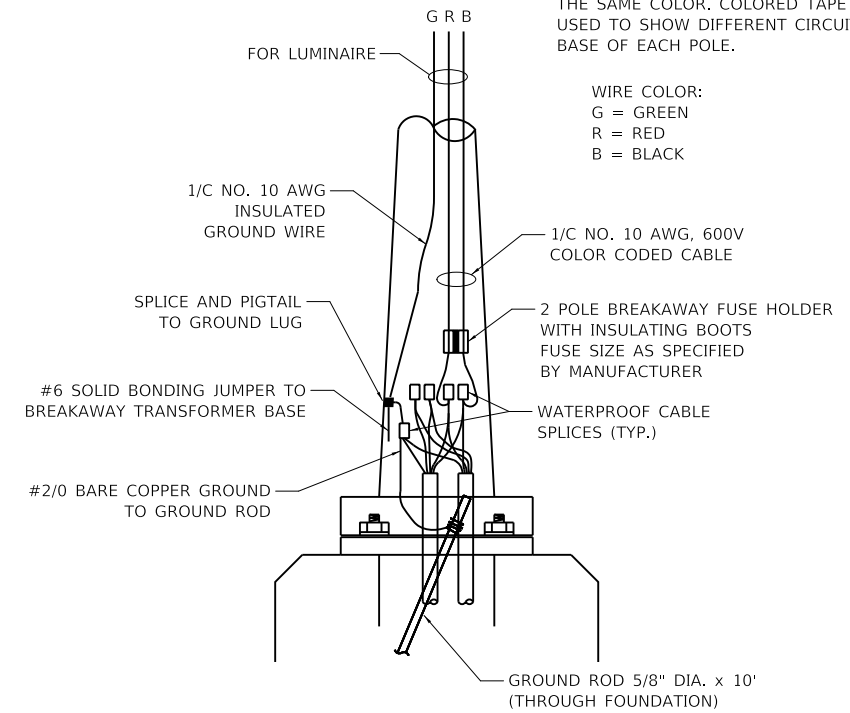
- ① CONDUIT SHALL BE SCHEDULE 80 G.S. CONDUIT.
- ② CONDUIT SHALL EXTEND A MINIMUM OF 2 FT. BEYOND BACK OF CURB OR SIDEWALK.
- ③ CONDUIT SHALL BE A MINIMUM OF 2.5 FT. BELOW BOTTOM OF CURB.
- ④ LOCATION OF CONDUIT CROSSING SHALL BE MARK ON CURBS WITH ARROWS.

ELECTRICAL CONDUIT UNDER PAVEMENT



NOTE: NUMBER OF CABLES IN SPLICE MAY VARY

SPLICING ELECTRIC CABLES BASIC MATERIALS AND METHODS



ALL CONDUCTORS SHALL BE INDIVIDUALLY COLOR-CODED. PHASE WIRES WILL BE RED OR BLACK. THE COLOR-CODED INSULATION FOR EACH WIRE SHALL RUN THE ENTIRE LENGTH OF THE CONDUCTOR FROM THE CIRCUIT BREAKER TO THE LUMINAIRE WITH THE SAME COLOR. COLORED TAPE CAN BE USED TO SHOW DIFFERENT CIRCUITS IN THE BASE OF EACH POLE.

WIRE COLOR:
G = GREEN
R = RED
B = BLACK

ROADWAY POLE HANDHOLE WIRING DIAGRAM

MODEL: SMODELNAME
FILE NAME: ...3447_LP22.dgn



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LAKEVIEW PARKWAY IMPROVEMENT
LIGHTING DETAILS**

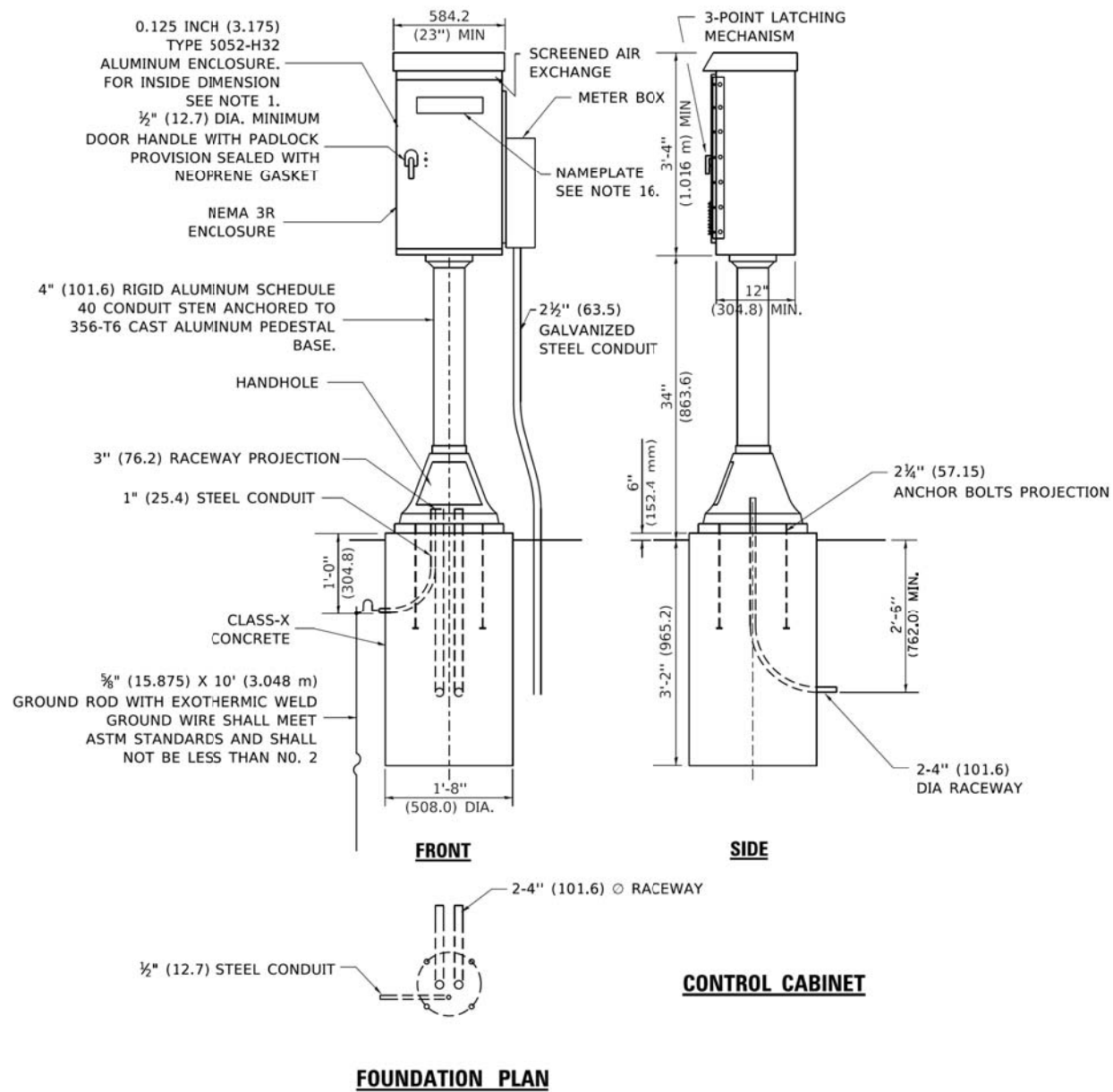
N.T.S. SHEET 1 OF 5 SHEETS STA TO STA

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
2419	98-00026-02-WR	LAKE	210	161
CONTRACT NO 61115				
ILLINOIS FED AID PROJECT				

DATE	
BY	
PLAN	
NO.	
NO. 4 BONDING JUMPER	
NO. 2	
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NOTES

1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
2. UNLESS OTHERWISE INDICATED, THE CABINET SHALL BE MOUNTED ATOP A 4-INCH (101.6 mm) RIGID ALUMINUM SCHEDULE 40 CONDUIT STEM ANCHORED TO A CAST ALUMINUM PEDESTAL BASE.
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. CABINET SHALL BE PRIMED AND PAINTED GREEN OR AS SPECIFIED.
11. THE HEADS OF CONNECTORS SCREWS SHALL BE PAINTED WHITE FOR NEUTRAL BAR CONNECTION AND GREEN FOR GROUND BAR CONNECTORS.
12. NOT USED
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 AS STREET LIGHTING.

LIGHTING CONTROLLER, PEDESTAL MOUNTED

MODEL: SH06LNAME5
FILE NAME: ...33447.LP22.dgn



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Itasca, Illinois 60143
Tel: 630.773.3900 Fax: 630.773.3975
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CHECKED -	REVISED -
DATE - 11/02/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

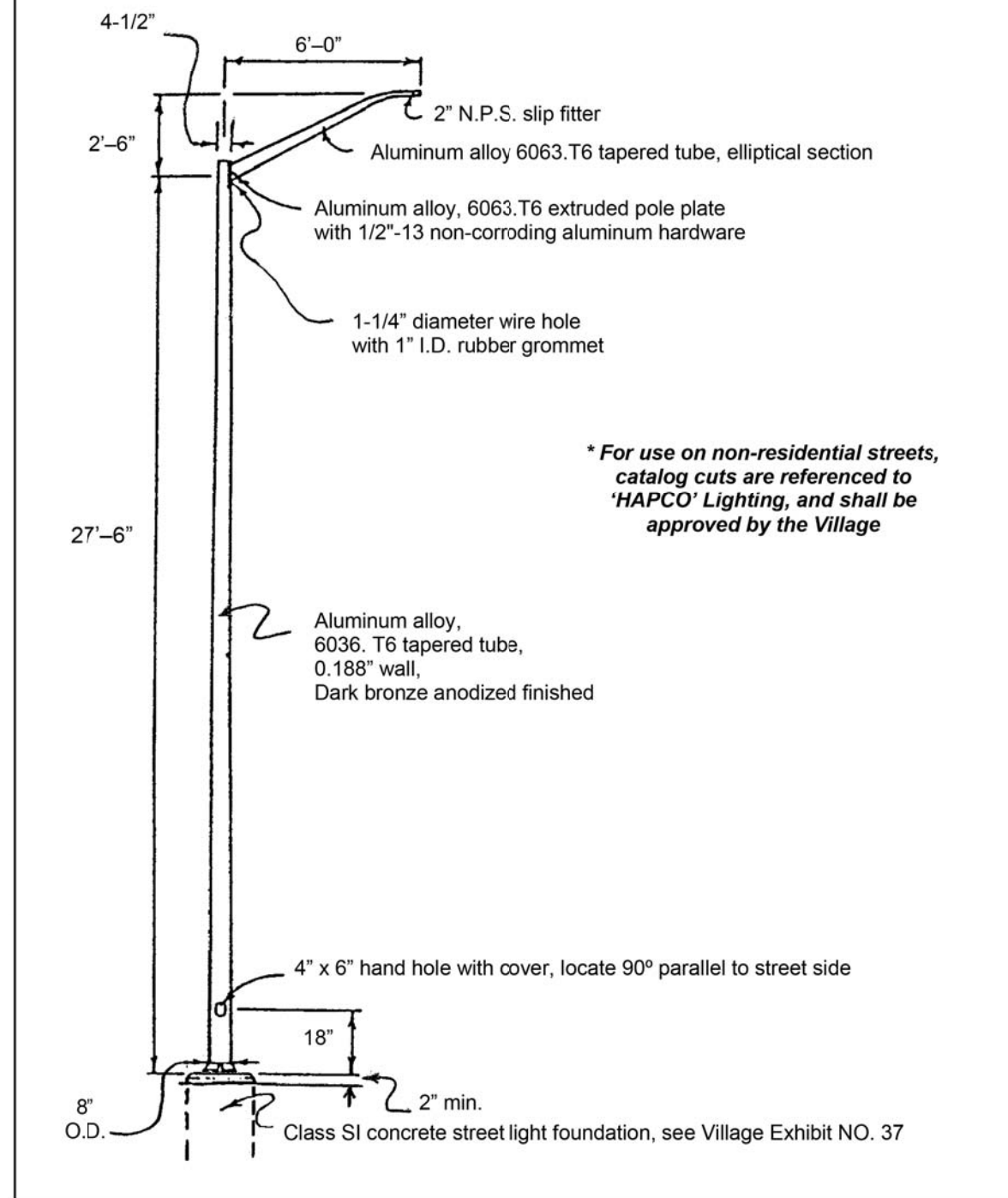
LAKEVIEW PARKWAY IMPROVEMENT
LIGHTING DETAILS

SHEET 3 OF 5 SHEETS STA TO STA

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
2419	98-00026-02-WR	LAKE	210	163
CONTRACT NO 61115				
ILLINOIS FED AID PROJECT				

**VILLAGE OF VERNON HILLS
EXHIBIT NO. 31**

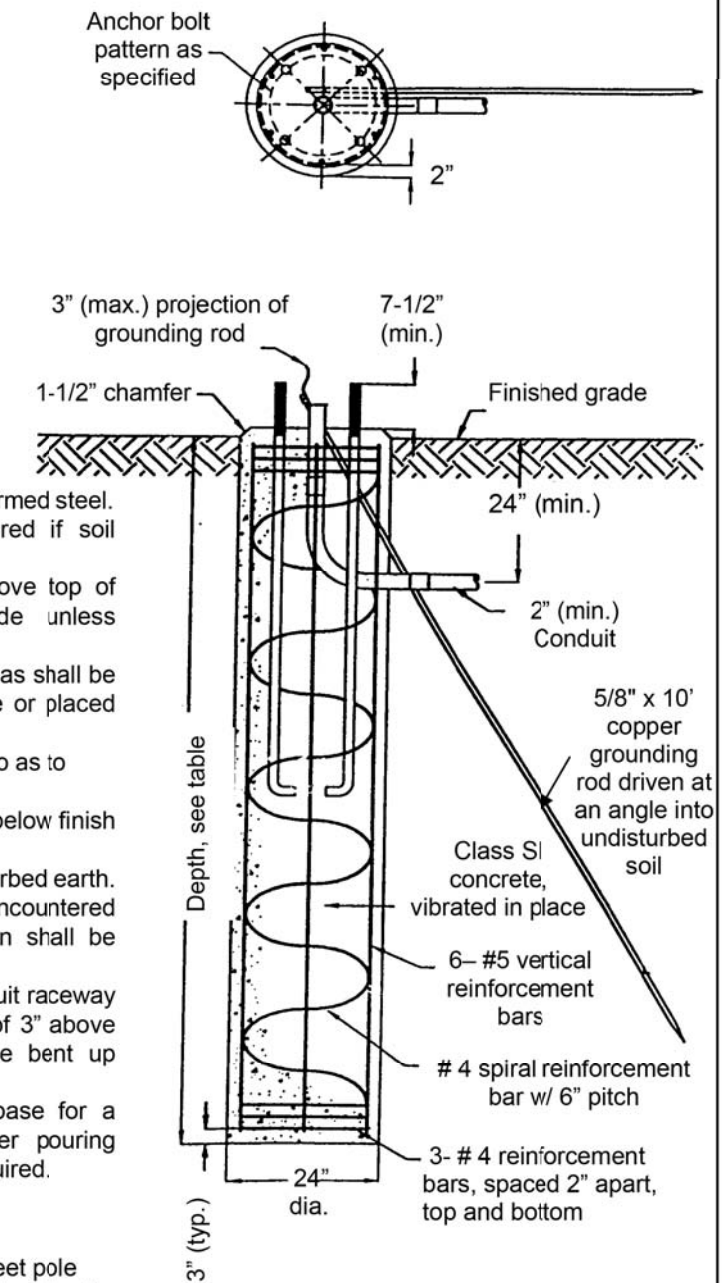
VILLAGE STREET LIGHT



CDB:120.4

STREET LIGHT FOUNDATION DETAIL

pole height	in-ground foundation depth
up to 20'	6'
21' to 30'	8'
31' to 40'	11'



Notes:

1. All reinforcement bars shall be deformed steel.
2. Deeper foundations will be required if soil conditions warrant.
3. Top of foundation shall be 2" above top of adjacent curb for finished grade unless approved by the Village Engineer.
4. Top of foundations in pavement areas shall be extended 30" above finished grade or placed outside of 24" of the back of curb.
5. Rebar "cage" is to be tightly wired so as to remain rigid.
6. Formwork is to extend at least 18" below finish grade.
7. Concrete shall be poured to undisturbed earth. For instances where loose soil is encountered the entire length of the foundation shall be formed.
8. Ground rod, anchor bolts and conduit raceway shall have a maximum projection of 3" above top of base. Ground rod shall be bent up vertical at top.
9. Light pole shall not be set on base for a minimum of seven (7) days after pouring concrete. A method of curing is required.

** Pole anchor rods shall meet pole manufacturers' specifications and set in place before pouring concrete.

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MODEL: SMODELNAME
FILE NAME: ...3447.LP2.dgn



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DATE	- 11/02/2022	REVISED	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LAKEVIEW PARKWAY IMPROVEMENT
LIGHTING DETAILS**

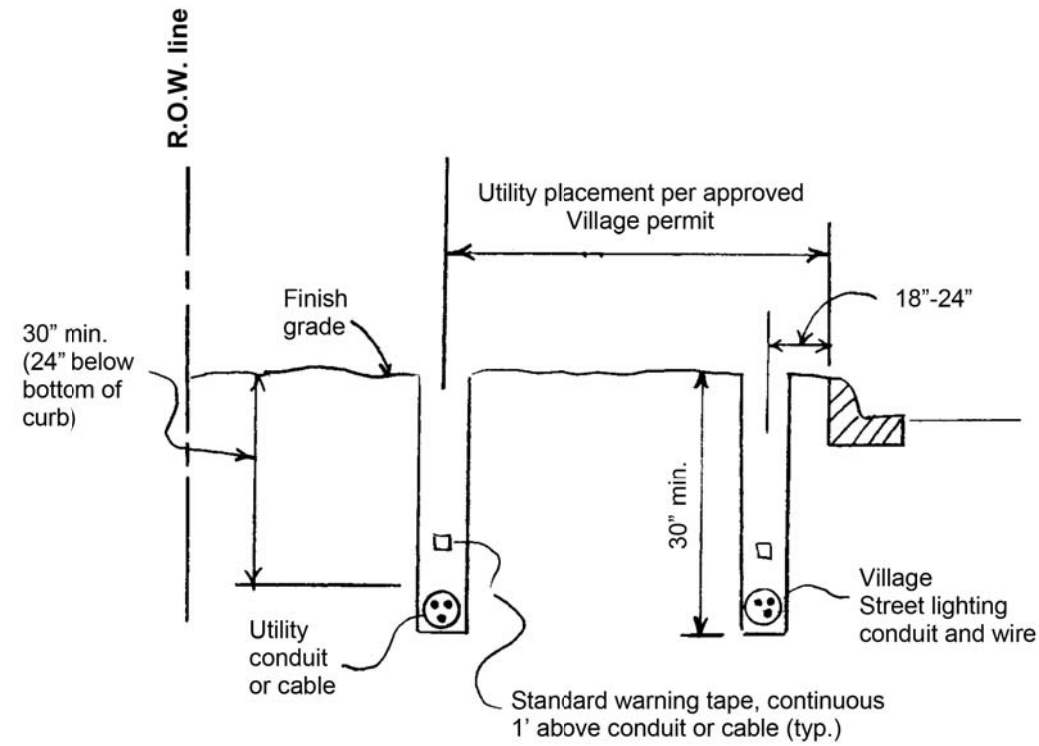
SHEET 4 OF 5 SHEETS STA TO STA

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
2419	98-00026-02-WR	LAKE	210	164
CONTRACT NO 61115				
ILLINOIS FED AID PROJECT				

PLAN	SURVEYED	DATE
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UTILITY CABLE IN TRENCH



Notes:

1. Bore operations shall be done in a manner as to not disturb existing conditions, and all drilling fluids shall be contained so as to not enter the Village storm sewerage system.
2. Backfill material for trenches not within pavement or 2' outside the limit of pavement, curb/gutter, sidewalks, driveways and aprons may be backfilled with suitable excavated material from the trench. Frozen material shall not be considered acceptable. Each lift shall be compacted by mechanical means to the satisfaction of the Village.
3. Village approved trench and backfill, see Village Exhibits No. 1 and 2, shall be used under all paved areas or within 2' of any pavement or proposed pavement areas.
4. No holes shall be left unprotected overnight. No holes shall be left open for more than 24 hours.
5. The open cutting of any Village street is prohibited.
6. All sidewalk, curb and driveway pavement damaged shall be replaced to the satisfaction of the Village Engineer, and shall meet the Village requirements.
7. All disturbed areas shall be repaired within 14 days of utility installation, and restored to original condition or better.

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FILE NAME: ...3447.LP22.dgn



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DATE - 11/02/2022	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LAKEVIEW PARKWAY IMPROVEMENT
LIGHTING DETAILS**

SHEET 5 OF 5 SHEETS STA TO STA

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
2419	98-00026-02-WR	LAKE	210	165
CONTRACT NO 61115				
ILLINOIS		FED AID PROJECT		

FOUNDATION DESIGN TABLE

TYPE OF SOIL	DESIGN DEPTH OF FOUNDATION		REINFORCEMENT IN FOUNDATION			
	SINGLE ARM D	TWIN ARM D	SINGLE ARM		TWIN ARM	
			VERT BARS	SPIRAL	VERT BARS	SPIRAL
SOFT CLAY	13'-0" (3.962 m)	15'-0" (4.572 m)	8-#6X12'-6" (3.810 m)	#3X122' (37.186 m)	8-#6X14'-3" (4.343 m)	#3X141' (42.977 m)
MEDIUM CLAY	9'-6" (2.896 m)	10'-9" (3.277 m)	8-#6X9'-0" (2.743 m)	#3X90' (27.432 m)	8-#6X10'-0" (3.048 m)	#3X100' (30.480 m)
STIFF CLAY	7'-0" (2.134 m)	8'-0" (2.438 m)	8-#6X6'-6" (1.981 m)	#3X66' (20.112 m)	8-#6X7'-6" (2.286 m)	#3X76' (23.165 m)
LOOSE SAND	9'-0" (2.743 m)	10'-0" (3.048 m)	8-#6X8'-6" (2.591 m)	#3X85' (25.908 m)	8-#6X9'-6" (2.896 m)	#3X94' (28.651 m)
MEDIUM SAND	8'-3" (2.515 m)	9'-0" (2.743 m)	8-#6X8'-0" (2.438 m)	#3X78' (23.774 m)	8-#6X8'-6" (2.591 m)	#3X85' (25.908 m)
DENSE SAND	7'-9" (2.362 m)	9'-0" (2.743 m)	8-#6X7'-6" (2.286 m)	#3X73' (22.250 m)	8-#6X8'-6" (2.591 m)	#3X85' (25.908 m)
ROCK OR SOLIDIFIED SLAG	5'-0" (1.524 m)	5'-0" (1.524 m)	NONE	NONE	NONE	NONE

OFFSET SCHEDULE

SEWER DIAM. d IN.	PILE OFFSET from C-MED'N FT.	LENGTH of BAR a FT.
UP TO 24" (609.6 mm)	3'-3" (0.991 m)	#6 x 5'-3" (1.600 m)
27" (685.8 mm) TO 36" (914.4 mm)	3'-9" (1.143 m)	5'-9" (1.753 m)
42" (1066.8 mm) TO 48" (1219.2 mm)	4'-6" (1.372 m)	6'-6" (1.981 m)
54" (1371.6 mm) TO 60" (1524.0 mm)	5'-0" (1.524 m)	7'-0" (2.134 m)
66" (1676.4 mm) TO 72" (1828.8 mm)	5'-6" (1.676 m)	7'-6" (2.286 m)

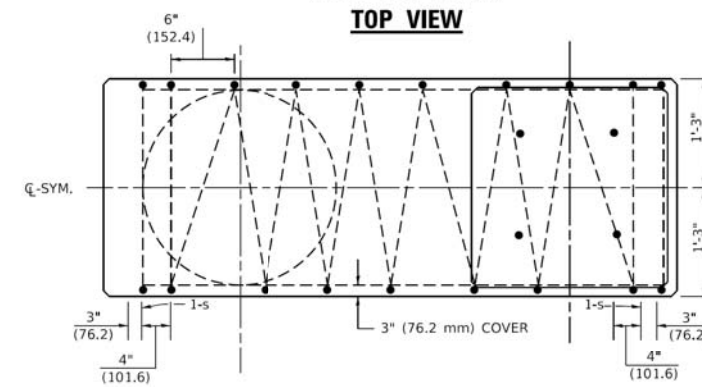
BILL OF MATERIAL

MARK	NO.	SIZE	LENGTH	SHAPE
a	10	6	SEE BELOW	—
s	12	4	8'-0" (2.438 m)	□
s1	3	3	7'-6" (2.286 m)	□
v1	8	6	2'-9" (0.838 m)	—
v2				

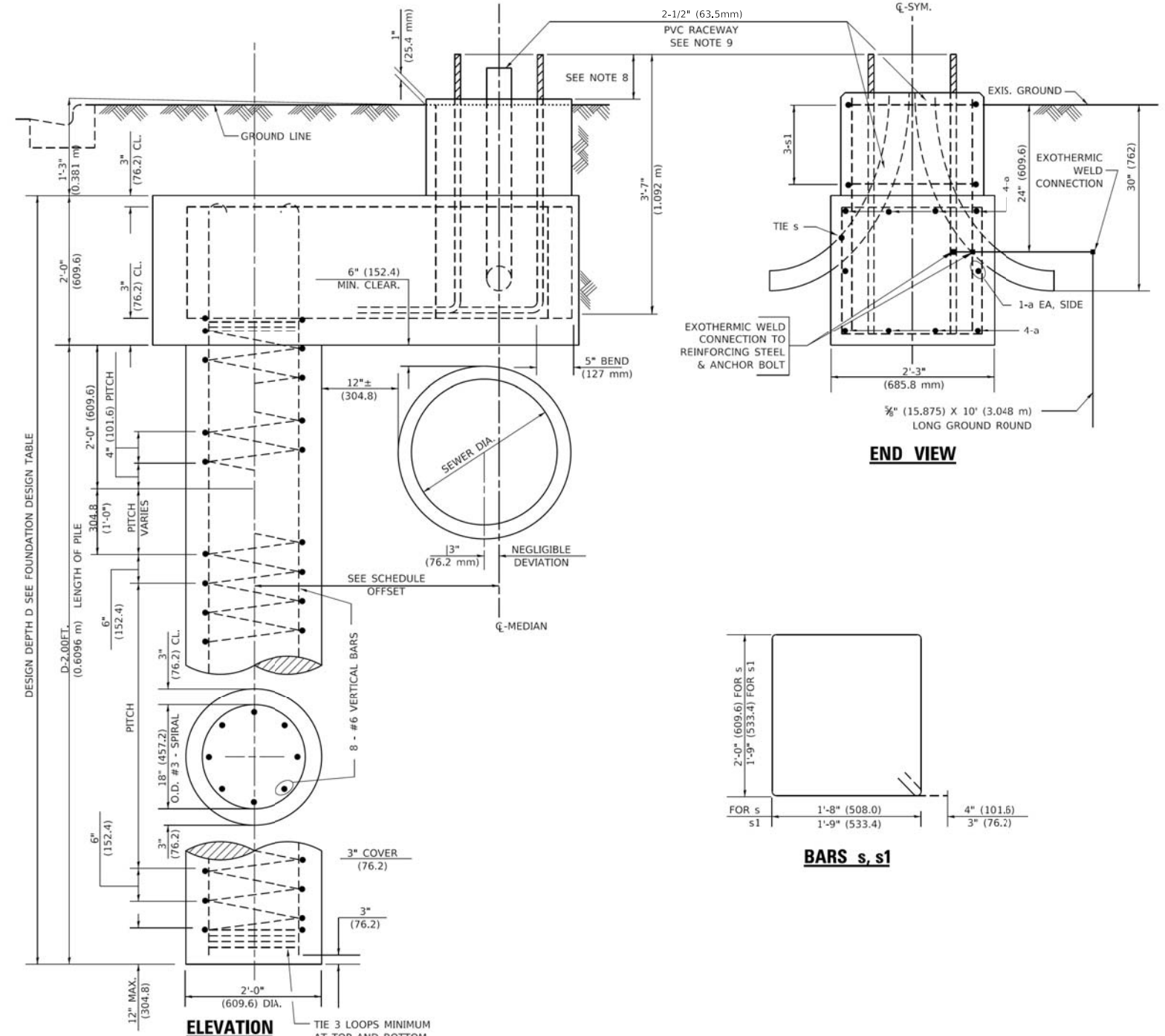
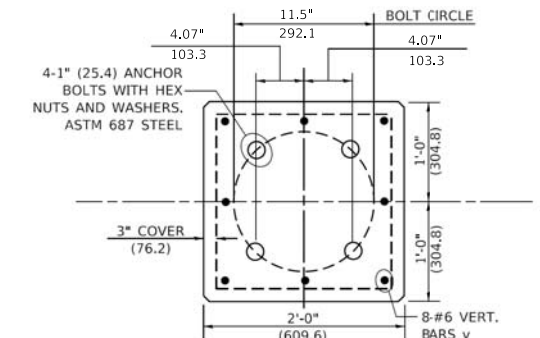
NOTES

- ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- THE ENGINEER SHALL DETERMINE THE CLASS OF SOIL DURING EXCAVATION AND SELECT THE DESIGN DEPTH OF FOUNDATION FROM THE DESIGN TABLE.
- EXCAVATION OF THE POLE FOUNDATION SHALL BE MADE WITH AN AUGER, 24" (609.6 mm) OR 30" (762.0 mm) IN DIAMETER.
- 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.
- THE ANCHOR BOLTS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IS PLACED IN THE FORM.
- 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.
- THE CONTRACTOR SHALL COORDINATE EXTENSION OF ANCHOR BOLTS ABOVE TOP OF FOUNDATION WITH THE BREAKAWAY DEVICE MANUFACTURER'S REQUIREMENTS. IF LIGHT POLE IS MOUNTED WITHOUT BREAKAWAY DEVICE, ANCHOR BOLTS SHALL PROJECT 23#4" (69.9 mm) ABOVE TOP OF THE FOUNDATION. THE CONTRACTOR SHALL CONFIRM ANCHOR BOLT EXTENTION WITH ENGINEER.
- RACEWAYS SHALL PROJECT 1" (25.4 mm) ABOVE THE TOP OF THE FOUNDATION.
- THE CABLE TRENCH SHALL BE BACKFILLED AND FIRMLY COMPACTED BEFORE THE LIGHT IS ERECTED.

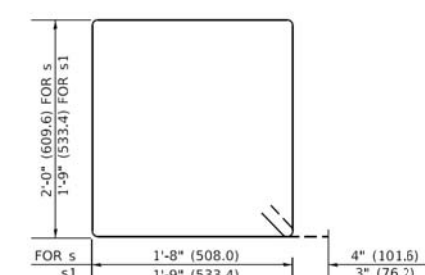
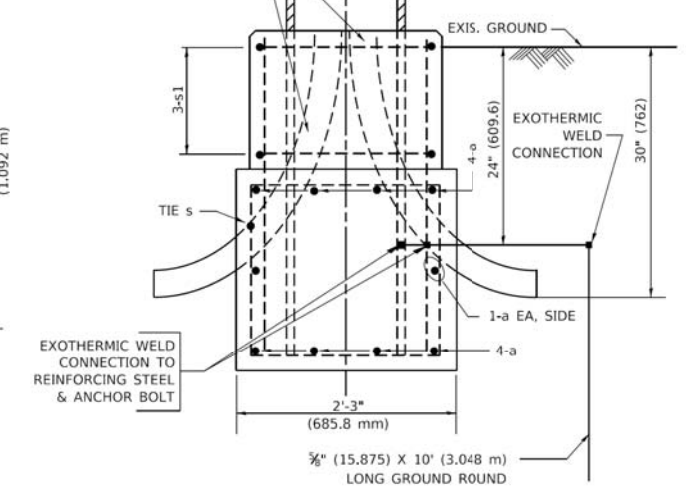
PLAN-CAP BEAM



TOP VIEW



END VIEW



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USER NAME = footemj	DESIGNED -	REVISED - R.TOMSONS 6-16-08
PLOT SCALE = 50.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 4/19/2019	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHT POLE FOUNDATION OFFSET

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

F.A.U. RTE. 2419	SECTION 98-0026-02-WR	COUNTY LAKE	TOTAL SHEETS 210	SHEET NO. 166
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61115	

VILLAGE OF VERNON HILLS
EXHIBIT NO. 1

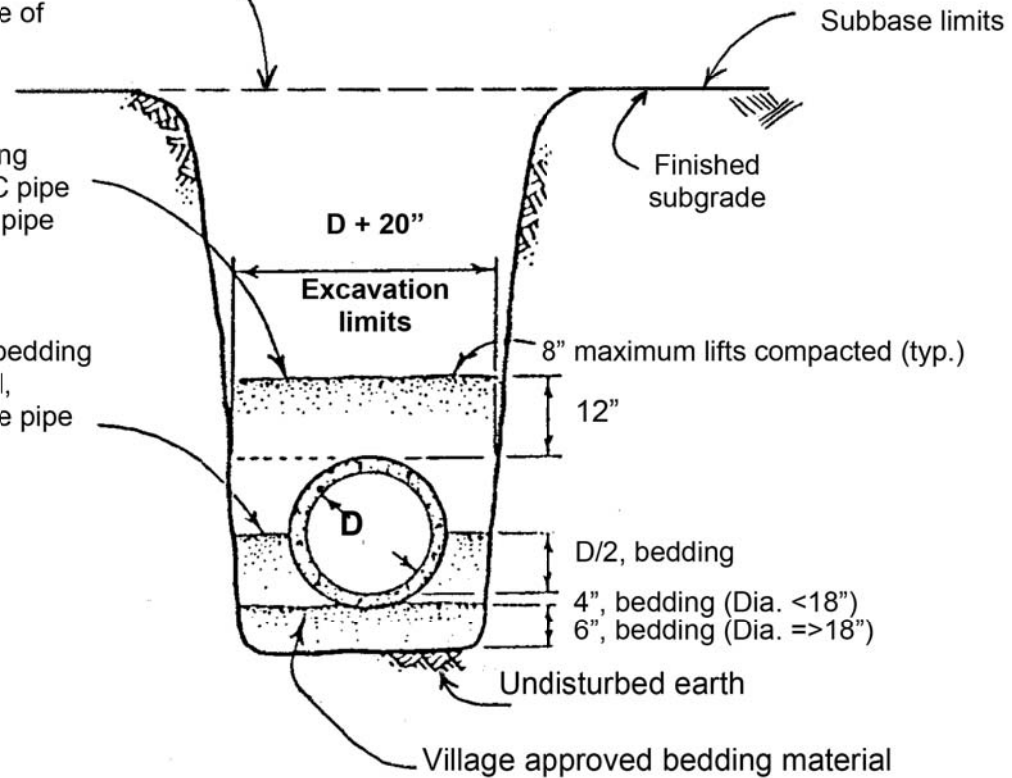
TYPICAL TRENCH BACKFILL AND STANDARD BEDDING

Limit of trench and backfill:

- CA-7 crushed limestone in pavement areas.
- Suitable excavated material for areas outside of pavement.

Top of Village approved bedding material for PVC pipe and ductile iron pipe

Top of bedding material, concrete pipe

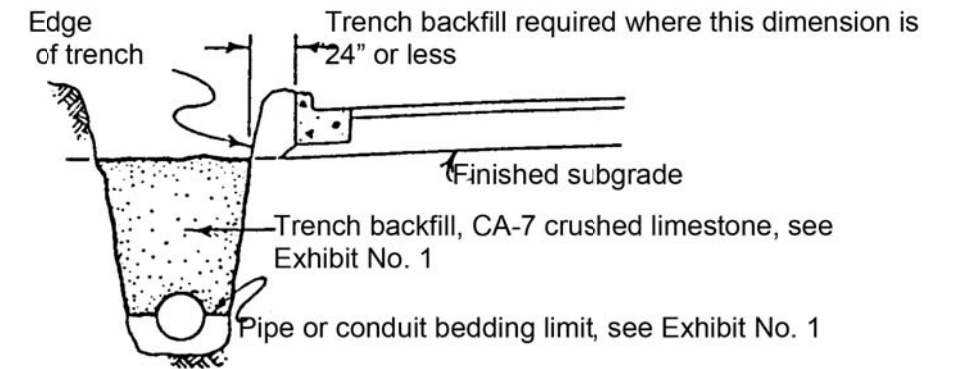
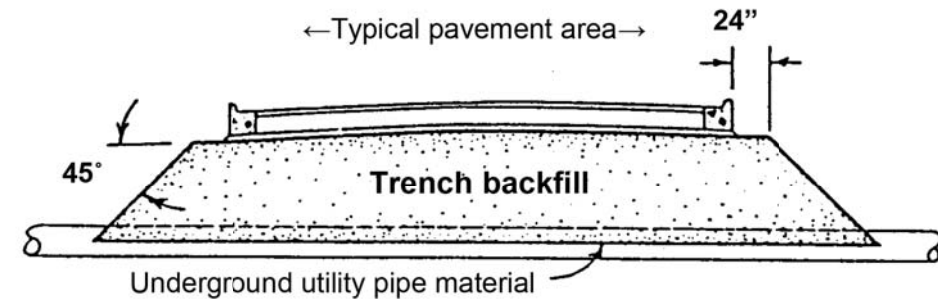


Notes:

1. Village approved bedding material for pipe shall be well compacted CA-7 crushed limestone aggregate.
2. Limits of trench width shall meet the requirements of the "Standard Specifications for Road and Bridge Construction, IDOT, current edition.
3. Voids left by sheeting shall be filled with standard bedding materials as the sheeting is removed.
4. Once final grading has been completed, all trenches within pavement shall be exposed to the top of the aggregate trenches. Additional trench and backfill shall be added, if necessary, before any subbase placement. Clay caps over trenches shall not be allowed.
5. Trench and backfill material for trenches not within the limits of pavement or two (2) foot outside the limit of pavement, may be backfilled with suitable excavated material from the trench. Frozen material shall not be considered acceptable. Each lift shall be compacted by mechanical means to the satisfaction of the Engineer.
6. Open holes shall be protected at all times.

VILLAGE OF VERNON HILLS
EXHIBIT NO. 2

TRENCH BACKFILL



Notes:

1. Trench backfill shall conform to the provision of compaction of the "Standard Specifications for Road and Bridge Construction", latest edition, IDOT.
2. For instances where open cutting of an existing road for utility repairs has been allowed by the Village Engineer, the entire trench shall be backfilled with a controlled low-strength material in accordance with IDOT Section 593 for CLSM. Only one lift shall be allowed for backfilling.
3. All trench backfill areas shall be exposed after final subgrade has been approved within all pavement areas, including sidewalks and driveways. Additional aggregate trench backfill shall be added to bring the trenches up to final subgrade.

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BY	
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MODEL: SH06LMA005
FILE NAME: ...3447_ConstrDetail-01



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CHECKED -	REVISED -
DATE - 11/02/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LAKEVIEW PARKWAY IMPROVEMENT
CONSTRUCTION DETAILS

SHEET 1 OF 12 SHEETS

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
2419	98-00026-02-WR	LAKE	210	167
CONTRACT NO 61115				
ILLINOIS FED AID PROJECT				

DATE	
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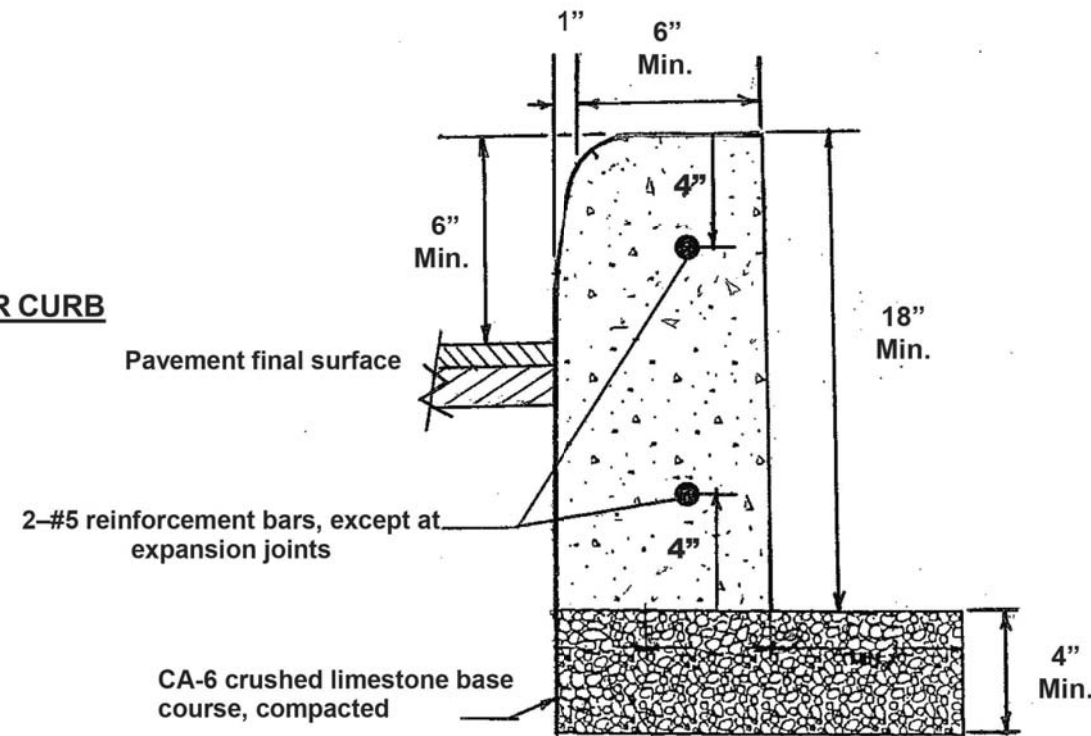
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FILE NAME: ...3447_ConstrDetail-01

VILLAGE OF VERNON HILLS
EXHIBIT NO. 28-A

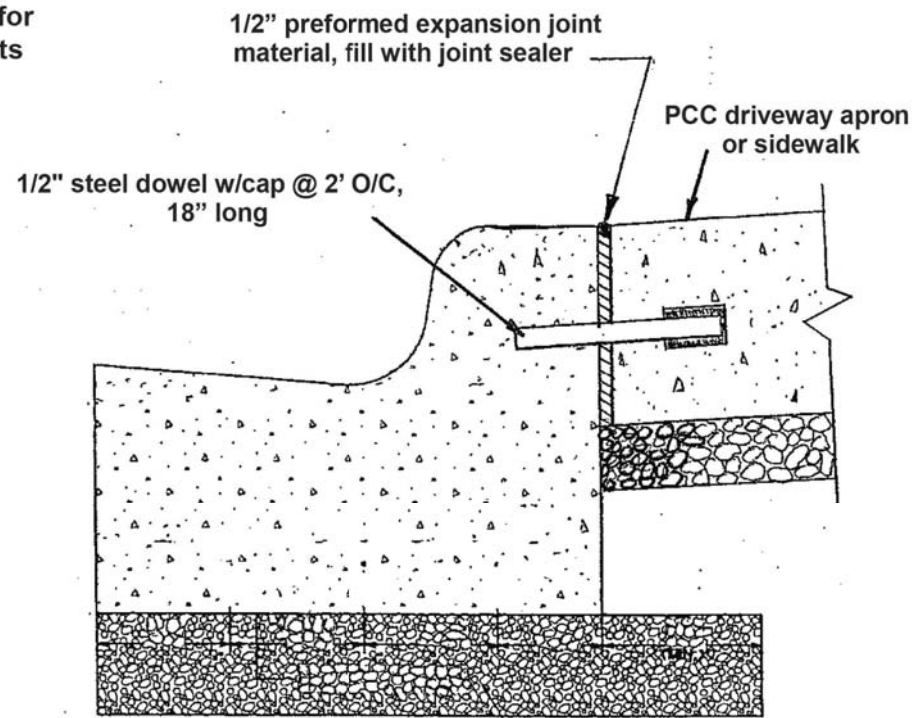
BARRIER CURB AND GUTTER

PCC BARRIER CURB



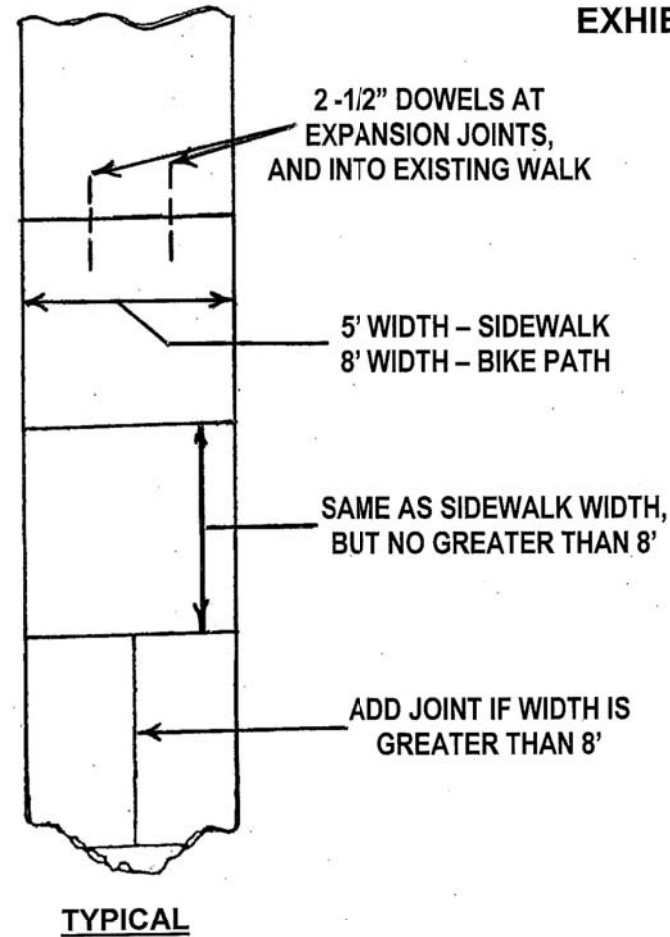
NOTE: See Village Exhibit NO. 28 for additional curb/gutter requirements

PCC CURB/GUTTER ADJACENT TO SIDEWALK OR DRIVEWAY APRON



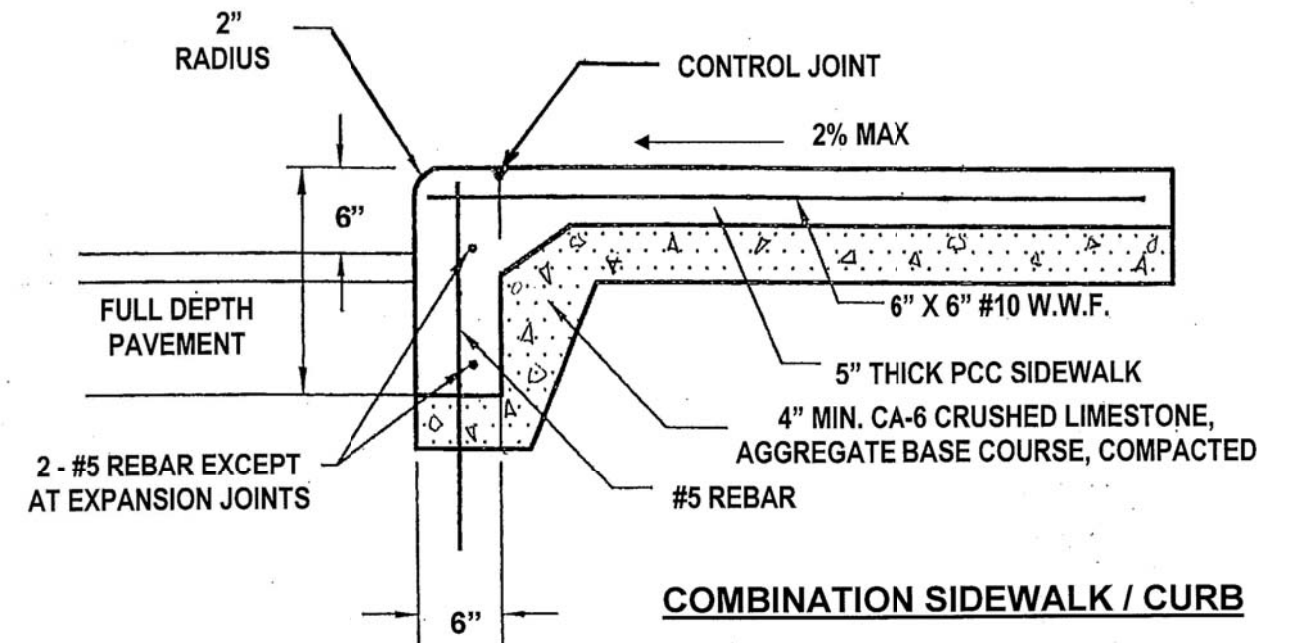
VILLAGE OF VERNON HILLS
EXHIBIT NO. 29

SIDEWALK



NOTES:

- 1/2" thick preformed expansion joint material with 2-1/2" dowels shall be required at no more than 50' intervals. Joints will be sealed with a Village approved Joint sealer.
- Sidewalk crossing through driveways shall be at least 6" thick.
- Sidewalks shall have no more than 2% cross slope. Parkways adjacent to sidewalks shall be between 2% - 8% max.
- 2 - #5 deformed steel bars; 10' long are required to be centered over all trench crossings.
- Sidewalks abutting curb shall be doweled per Village Exhibit No. 28-A.
- Joints between the sidewalk and curb shall be sealed with a Village approved joint sealer.



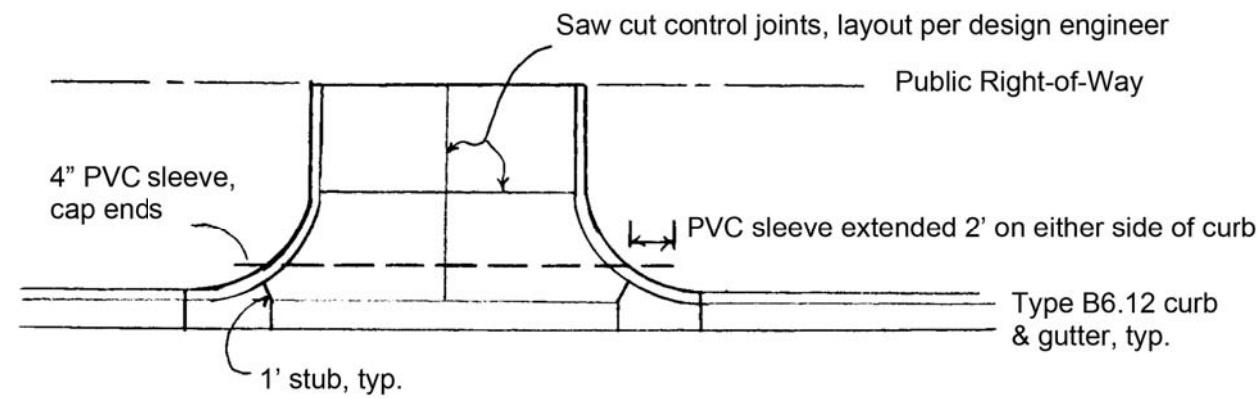
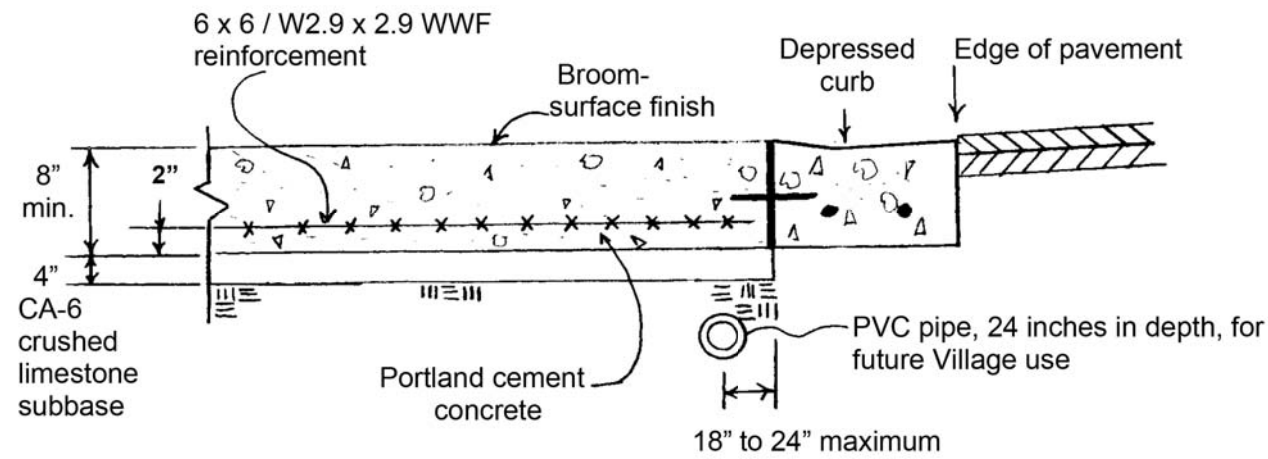
NOTE: SEE VILLAGE EXHIBIT 29-A FOR SIDEWALK CURB RAMPS

DESIGNED	-	REVISED	-
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FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
2419	98-00026-02-WR	LAKE	210	169
CONTRACT NO 61115				
ILLINOIS FED AID PROJECT				

VILLAGE OF VERNON HILLS
EXHIBIT NO. 35

COMMERCIAL DRIVEWAY ENTRANCES



Notes:

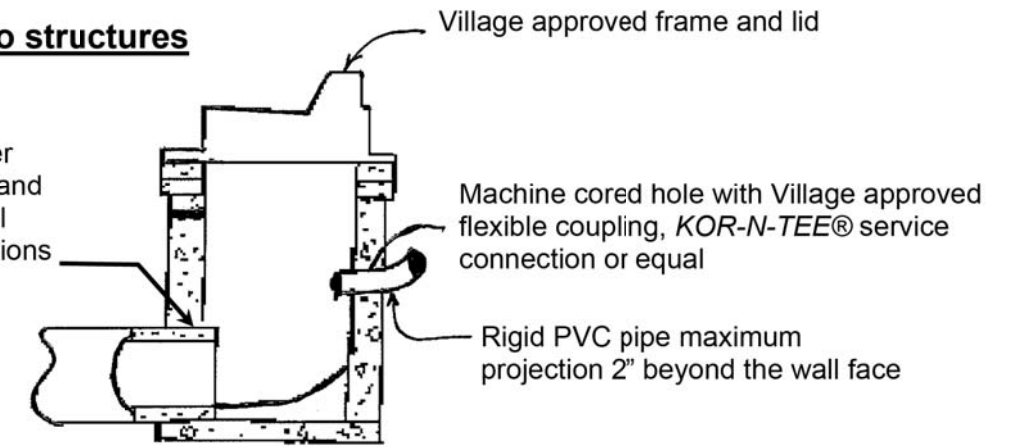
1. Concrete driveway entrances shall be doweled into the abutting curbs by 1/2" dia. steel bars, 18" long at 24" centers with 3/4" thick preformed bituminous expansion joint material. Trim expansion joint material and caulk.
2. Wire mesh reinforcement shall be tied at all overlaps and supported at mid-pavement depth during pour.
3. A four (4) inch diameter PVC sleeve, SDR 26 or Schedule 80, shall be installed across all driveway openings that abut Public streets for future Village use.

VILLAGE OF VERNON HILLS
EXHIBIT NO. 43

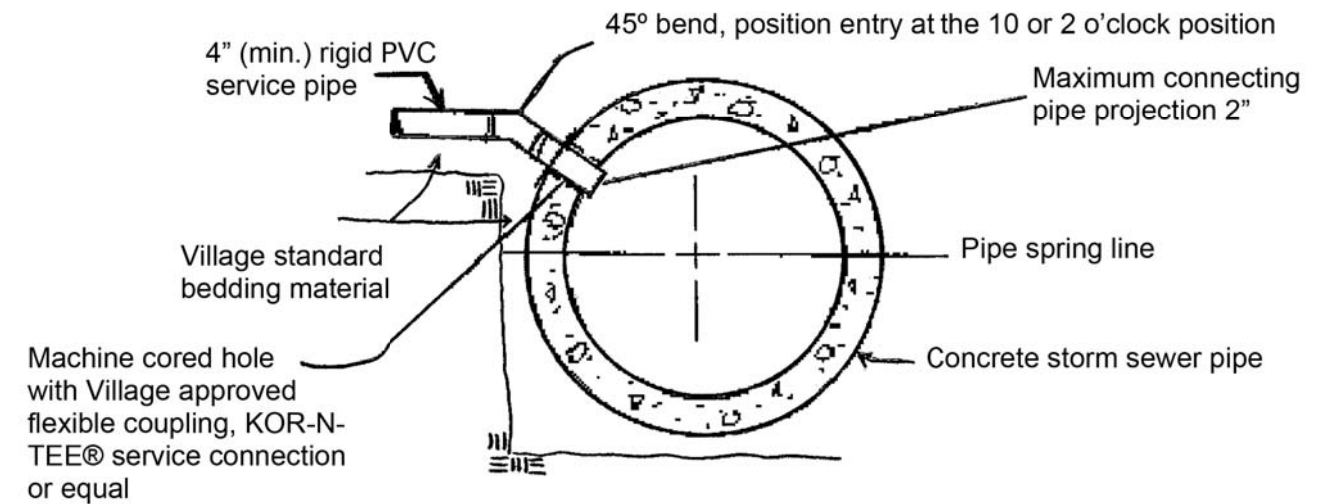
STORM SEWER SERVICE CONNECTIONS

connections into structures

Watertight Flexible Rubber Connector, ASTM C-443 and C-923, with stainless steel bands for all pipe connections



connection into pipes



Notes:

1. The PVC service pipe shall be well supported across the storm sewer trench.
2. For storm sewer connections into PVC or DIP mainline pipe material, use in-line wyes or tees.
3. All connections shall be inspected and approved by the Village before backfilling.
4. Village approved trench backfill, see Village Exhibits No.1 and 2 shall be used under all paved areas or within two (2) feet of any pavement or proposed pavement areas.
5. Remove core debris from pipe.

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MODEL: SH06LNAME5
FILE NAME: ...33472_ConsDetailB-01



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DATE	- 11/02/2022	REVISED	-

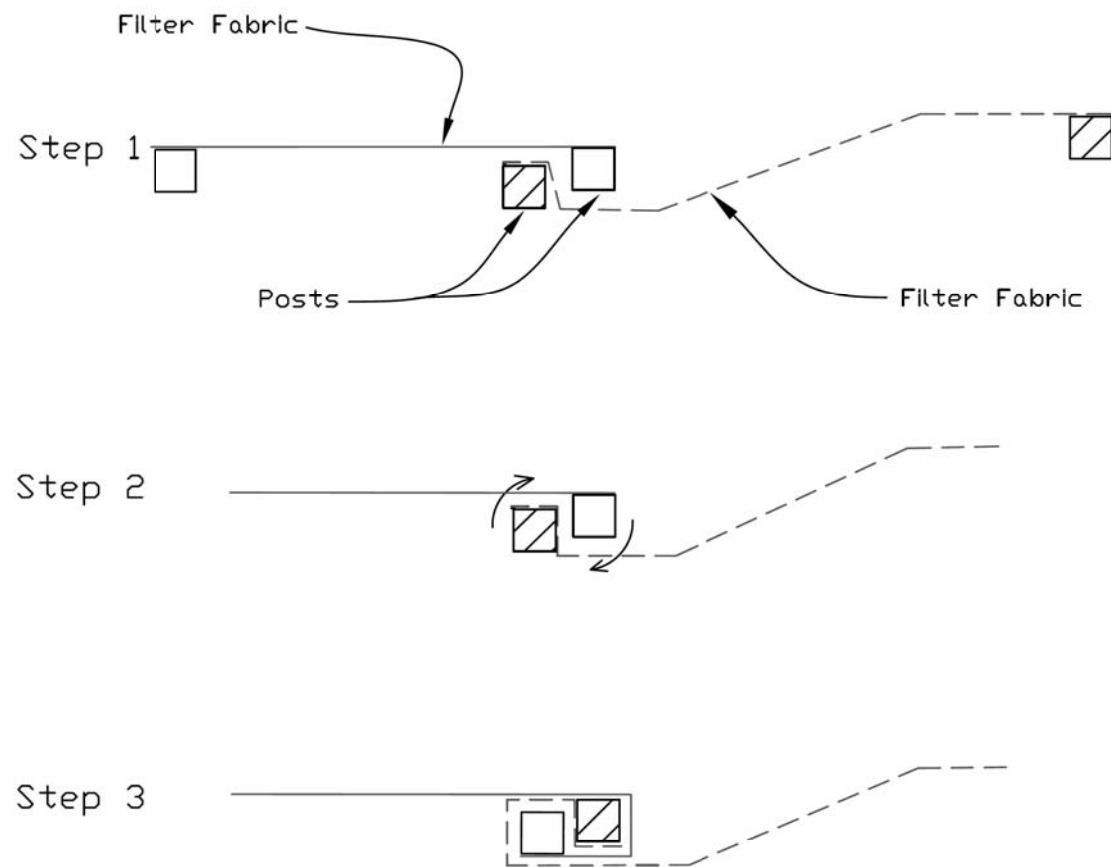
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LAKEVIEW PARKWAY IMPROVEMENT
CONSTRUCTION DETAILS

SHEET 4 OF 12 SHEETS

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
2419	98-00026-02-WR	LAKE	210	170
CONTRACT NO 61115				
ILLINOIS FED AID PROJECT				

SILT FENCE - SPLICING TWO FENCES



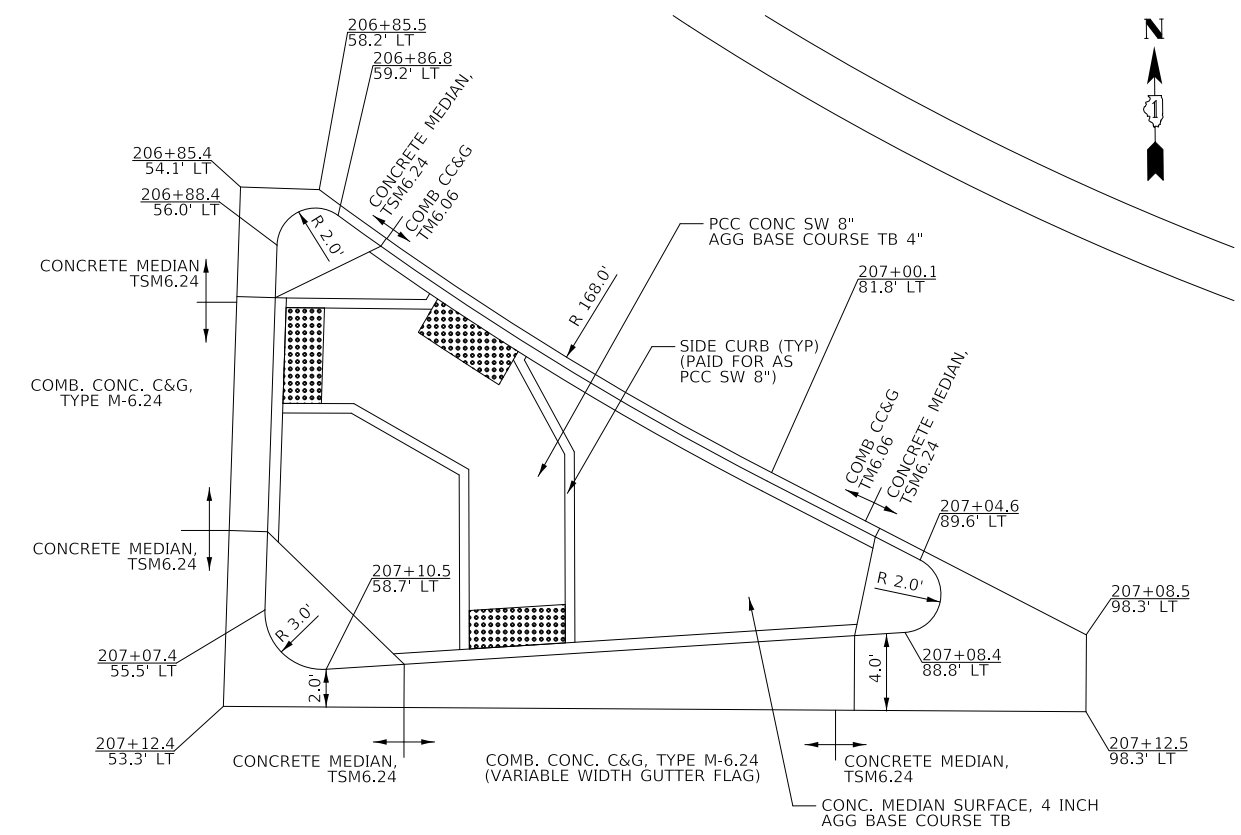
ATTACHING TWO SILT FENCES

1. Place the end post of the second fence inside the end post of the first fence.
2. Rotate both posts at least 180 degrees in a clockwise direction to create a tight seal with the fabric material.
3. Cut the fabric near the bottom of the stakes to accommodate the 6" flap.
4. Drive both posts a minimum of 18 inches into the ground and bury the flap.
5. Compact backfill (particularly at splices) completely to prevent stormwater piping.

REFERENCE	
Project	_____
Designed	_____ Date _____
Checked	_____ Date _____
Approved	_____ Date _____



STANDARD DWG. NO.
IUM-620B(W)
SHEET 1 OF 1
DATE 3-16-2012



ISLAND AT THE NE CORNER OF LAKEVIEW AND ROUTE 60

DATE	
BY	
PLAN	
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PROFILE	
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DATE	
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PROFILE	
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MODEL: SMODELNAME
FILE NAME: ...3447_ConstrDetail-01



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CHECKED	-	KRK	REVISED	-
DATE	-	11/02/2022	REVISED	-

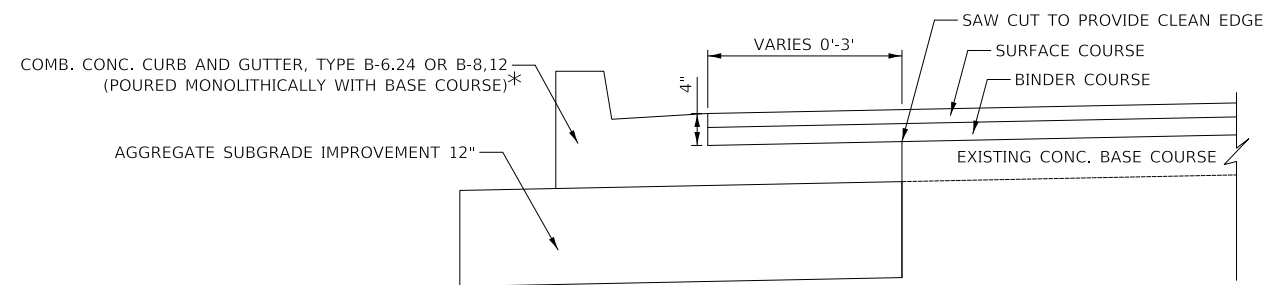
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LAKEVIEW PARKWAY IMPROVEMENT
CONSTRUCTION DETAILS

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
2419	98-00026-02-WR	LAKE	210	171
CONTRACT NO 61115				
ILLINOIS FED AID PROJECT				

SHEET 5 OF 12 SHEETS

PLAN	SURVEYED	DATE
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	ALIGNMENT CHECKED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
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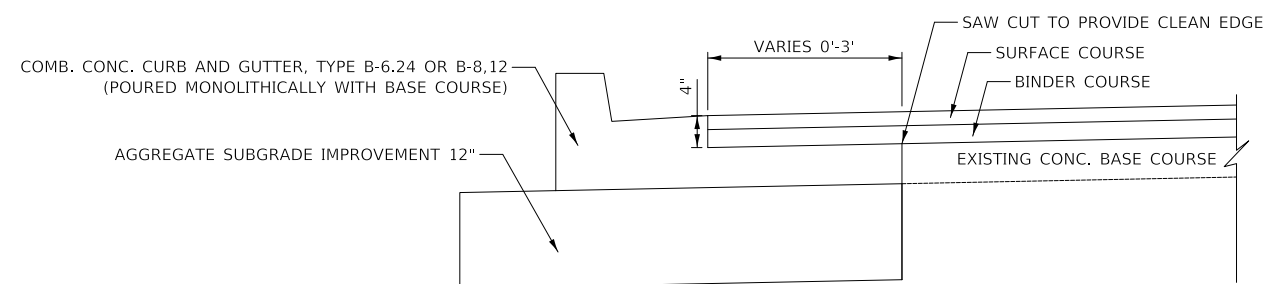


*BASE COURSE INCLUDED IN THE COST OF THE ADJACENT CURB AND GUTTER.

COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24, & B-9.12

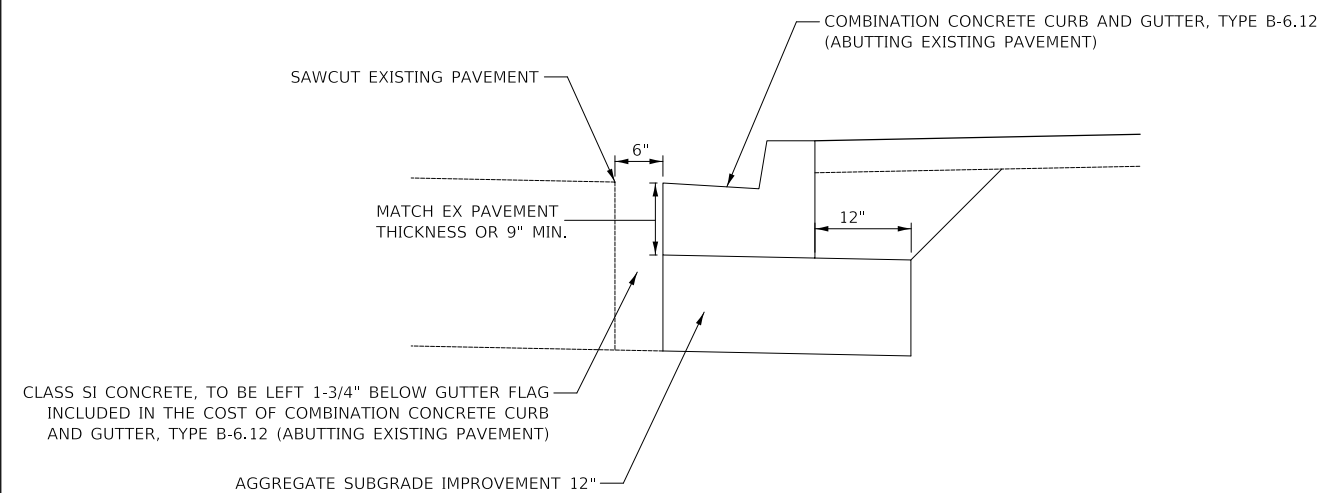
AT LOCATIONS WHERE WIDENING IS 3' OR LESS

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	STRUCTURE NOTATIONS CHECKED	
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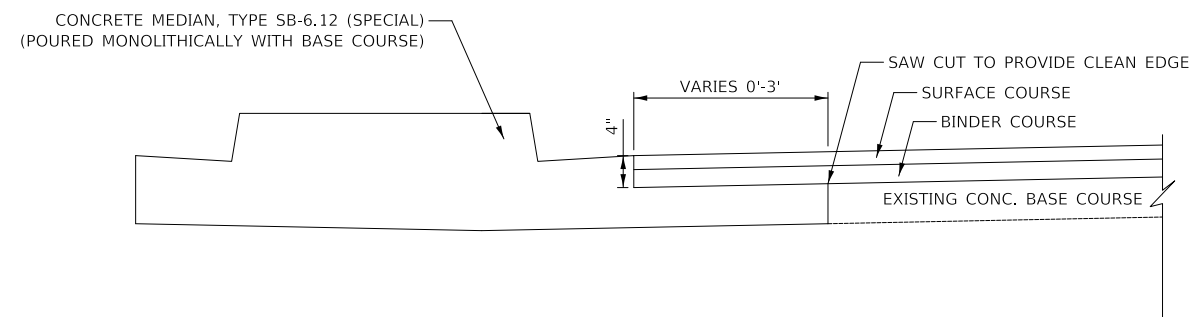
COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 (SPECIAL)

AT LOCATIONS WHERE HMA WIDENING IS 3' OR LESS



CLASS SI CONCRETE, TO BE LEFT 1-3/4" BELOW GUTTER FLAG INCLUDED IN THE COST OF COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 (ABUTTING EXISTING PAVEMENT)

COMBINATION CONCRETE CURB AND GUTTER (ABUTTING EXISTING PAVEMENT)



CONCRETE MEDIAN, TYPE SB-6.12 (SPECIAL)

AT LOCATIONS WHERE HMA WIDENING IS 3' OR LESS

MODEL: SMODEL\MAMES
FILE NAME: ...3447_ConstrDetail-01



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DATE	-	11/02/2022	REVISED	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

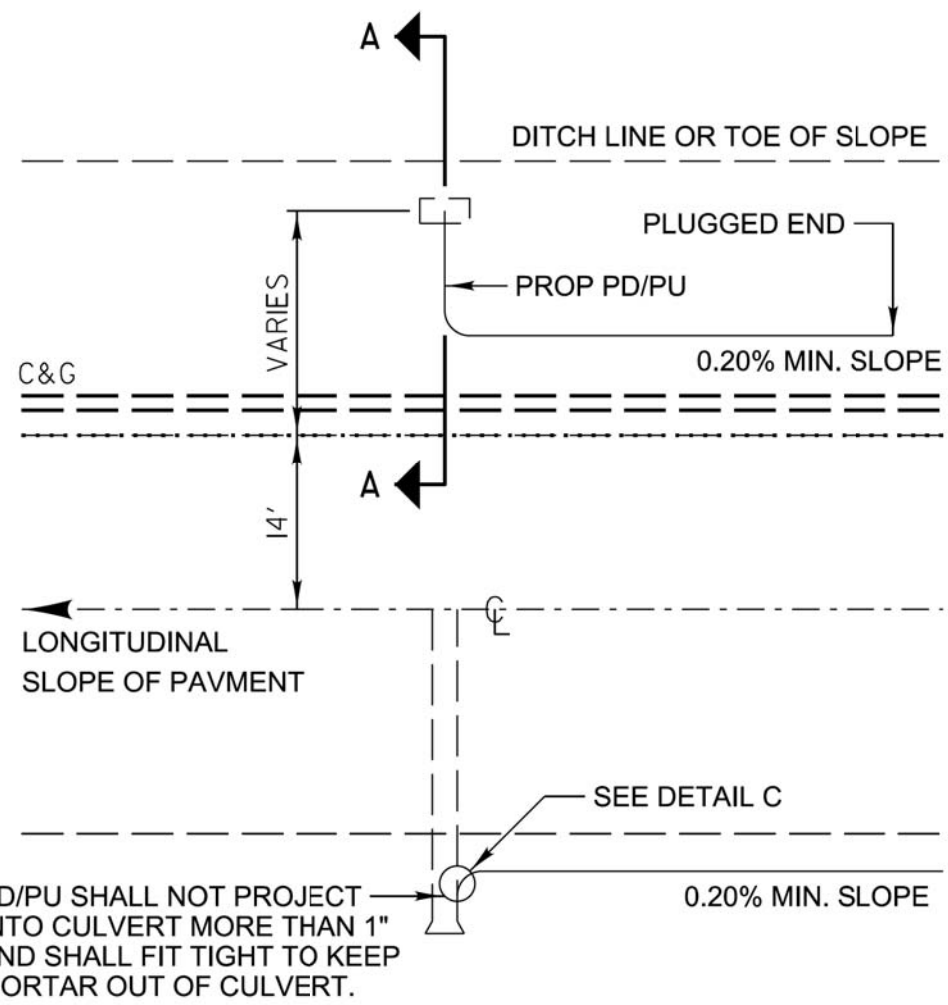
**LAKEVIEW PARKWAY IMPROVEMENT
CONSTRUCTION DETAILS**

SHEET 6 OF 12 SHEETS

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
2419	98-00026-02-WR	LAKE	210	172
CONTRACT NO 61115				
ILLINOIS FED AID PROJECT				

PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNED	
	CHECKED	
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	PLOTTED	
	GRADES	
	CHECKED	
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	STRUCTURE	
	NOTATION	
	NO.	



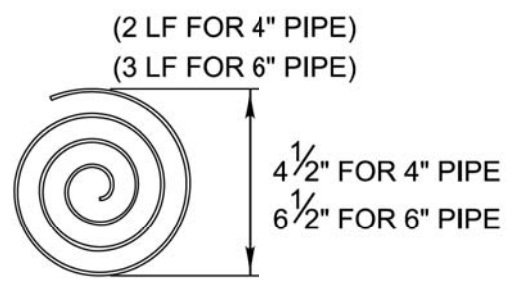
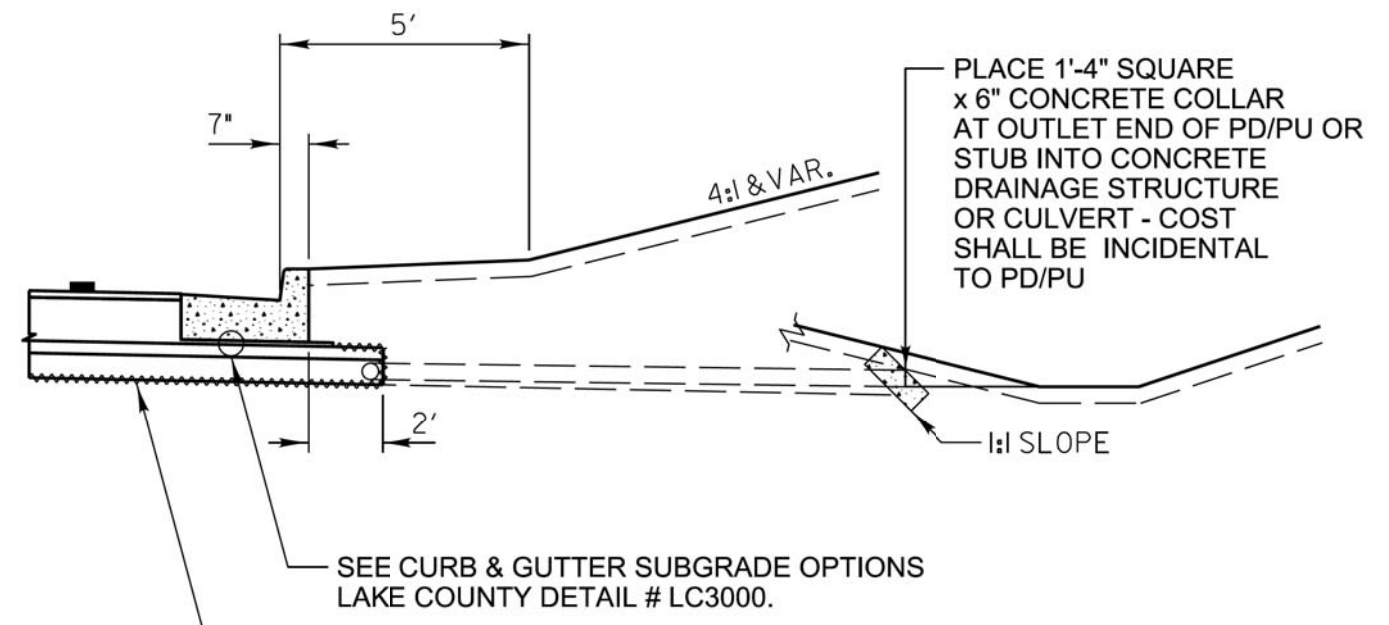
TYPICAL PIPE DRAIN/ PIPE UNDERDRAIN OUTLET

DESIGN NOTES:

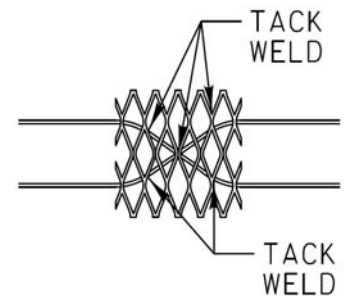
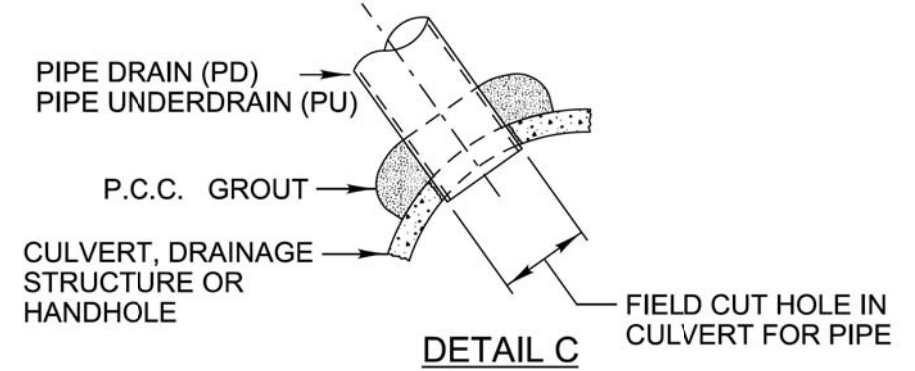
All work shall be according to the applicable portions of the "Standard Specifications" except as modified hereon.

In addition to the requirements of Article 601.08 of the "Standard Specifications", the contract unit price per foot for pipe drains 4" & 6" and pipe underdrains 4" shall include the cost of furnishing and placing the rodent shield.

The removable rodent shield shall be furnished and installed in accordance with one of the configurations shown. The shield shall be fabricated from steel wire, or expanded metal, as detailed above and shall be galvanized after fabrication in accordance with AASHTO M-111. Other submitted designs for a removable rodent shield will be allowed with the approval of the Engineer.



$\frac{3}{16}$ " WIRE STOCK BENT TO A SPIRAL CONFIGURATION. TO INSTALL, TWIST INTO PD/PU END. (FOR CORRUGATED CIRCULAR METAL PIPE)



6"x6" EXPANDED METAL SHIELD WITH TWO 2'-6" LONG PREFABRICATED 6 GAGE STEEL STRUTS FOR SNUG FIT INTO THE PD/PU END.

RODENT SHIELDS DETAIL

(ALTERNATES) NOT TO SCALE

REVISIONS	DATE
Pipe Drain Added to Labels	5/19/2009
Revised Type A to Type B Aggregate	12/20/12
Removed HMA Shldr & Agg	11/20/13

	APPROVED BY: M. G. ZEMAITIS DATE: APRIL 1, 2007	LC6020
	SUB-SURFACE DRAINS	

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FILE NAME: ...3447_ConstrDetail-01



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DATE - 11/02/2022	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LAKEVIEW PARKWAY IMPROVEMENT
CONSTRUCTION DETAILS**

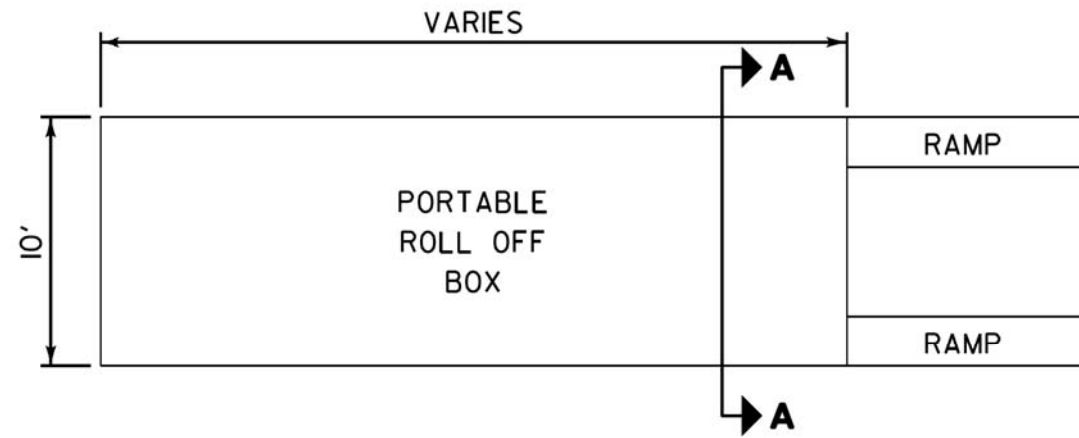
FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
2419	98-00026-02-WR	LAKE	210	173
CONTRACT NO 61115				
ILLINOIS FED AID PROJECT				

SHEET 7 OF 12 SHEETS

PLAN	SURVEYED	DATE
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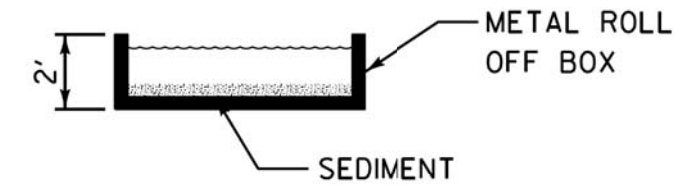
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FILE NAME: ...3447_ConstrDetail-01

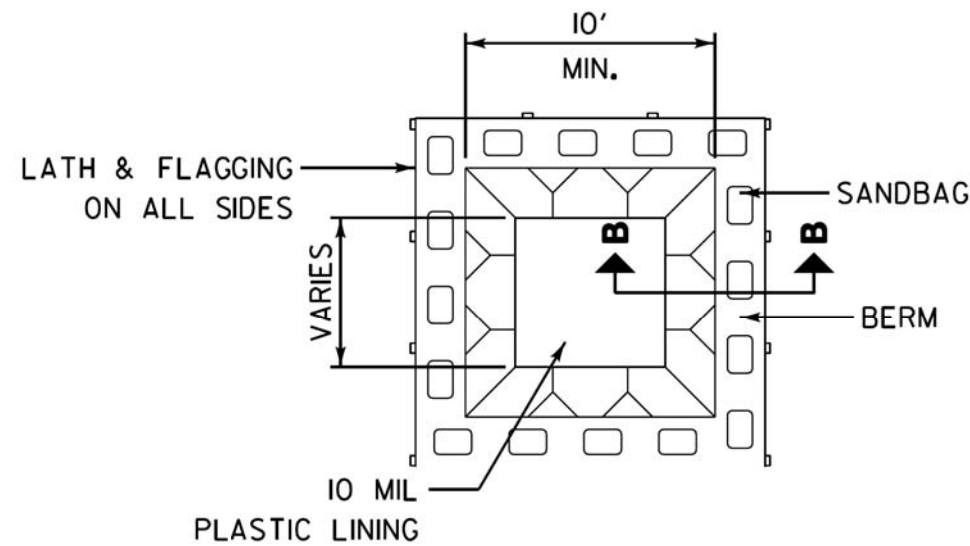


PLAN VIEW

PREFAB PORTABLE WASHOUT

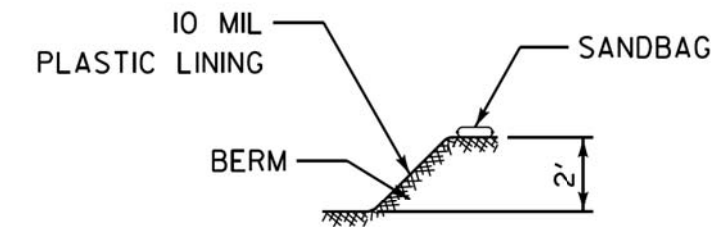


SECTION A-A



PLAN VIEW

BELOW GRADE



SECTION B-B

NOTES:

1. ACTUAL LAYOUT DETERMINED IN FIELD.
2. OTHER WASHOUT DESIGNS MAY BE USED IF APPROVED BY THE ENGINEER.
3. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30 FEET OF THE TEMPORARY CONCRETE WASHOUT FACILITY.

NOT TO SCALE

REVISIONS	DATE	 LakeCounty Division of Transportation	APPROVED BY: MGZ	LC4202
		CONCRETE WASHOUT FACILITIES SHEET 1 OF 2		



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CHECKED -	REVISED -
DATE - 11/02/2022	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

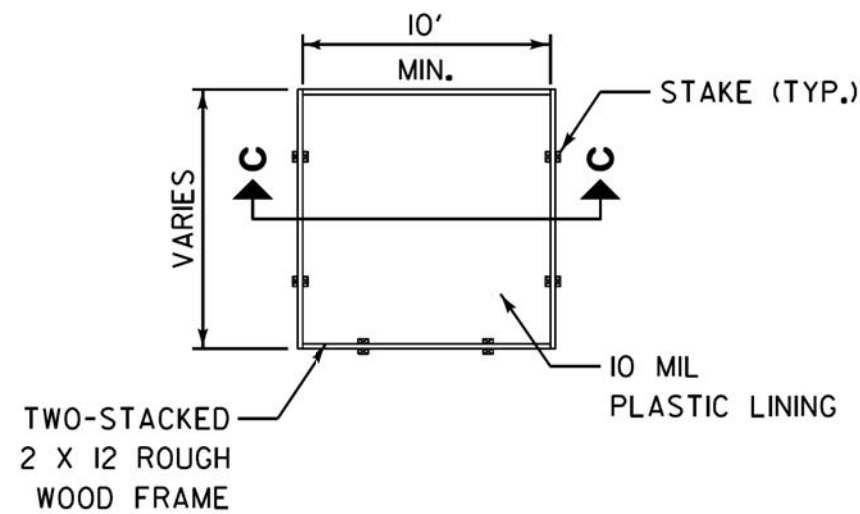
**LAKEVIEW PARKWAY IMPROVEMENT
CONSTRUCTION DETAILS**

SHEET 8 OF 12 SHEETS

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
2419	98-00026-02-WR	LAKE	210	174
CONTRACT NO 61115				
ILLINOIS FED AID PROJECT				

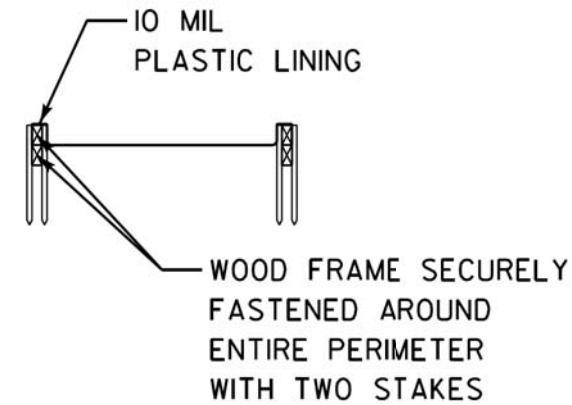
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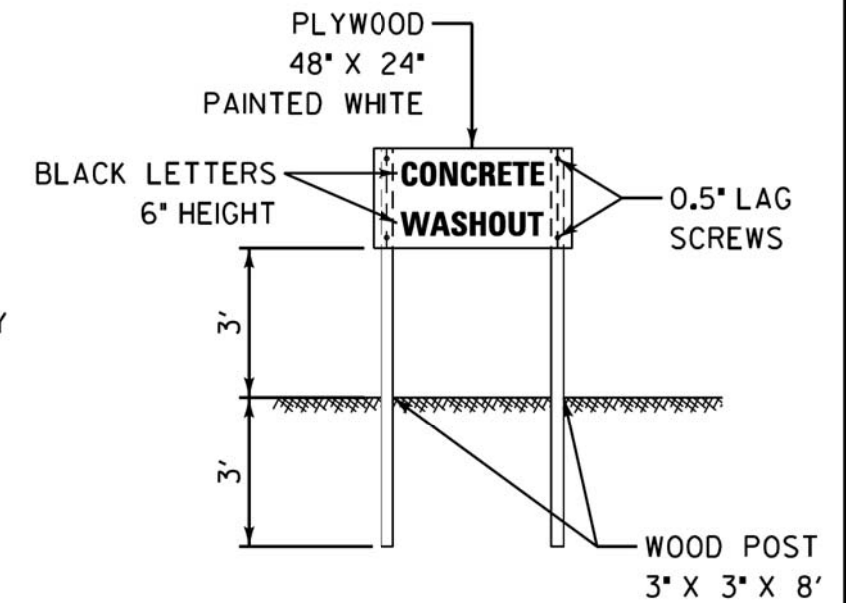


PLAN VIEW

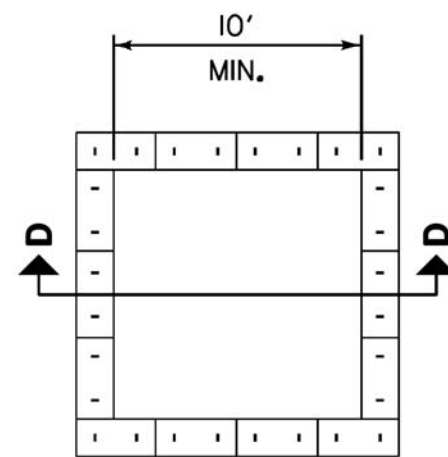
ABOVE GRADE



SECTION C-C



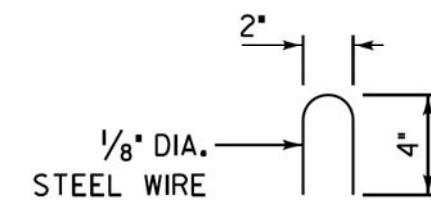
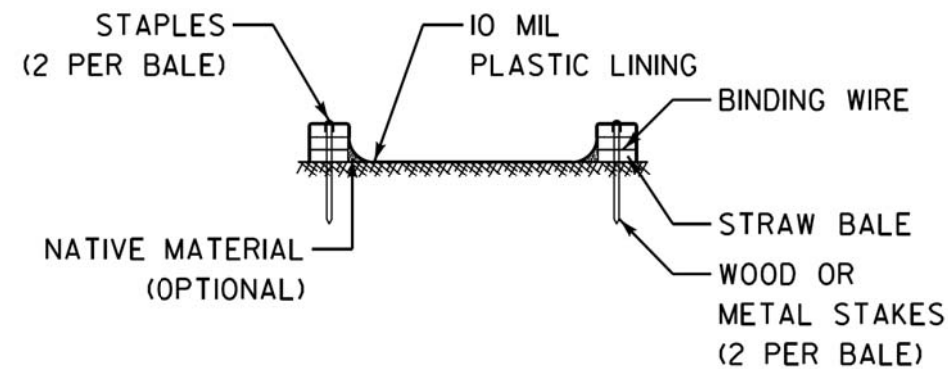
CONCRETE WASHOUT SIGN DETAIL (OR EQUIVALENT)



PLAN VIEW

ABOVE GRADE WITH STRAW BALES

SECTION D-D



STAPLE DETAIL

NOTES:

1. ACTUAL LAYOUT DETERMINED IN FIELD.
2. OTHER WASHOUT DESIGNS MAY BE USED IF APPROVED BY THE ENGINEER.
3. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30 FEET OF THE TEMPORARY CONCRETE WASHOUT FACILITY.

NOT TO SCALE

REVISIONS	DATE	 LakeCounty Division of Transportation	APPROVED BY: MGZ	LC4202
CONCRETE WASHOUT FACILITIES SHEET 2 OF 2				

MODEL: SMODEL\MAMES
FILE NAME: ...3447_ConstrDetail-01



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CHECKED -	REVISED -
DATE - 11/02/2022	REVISED -

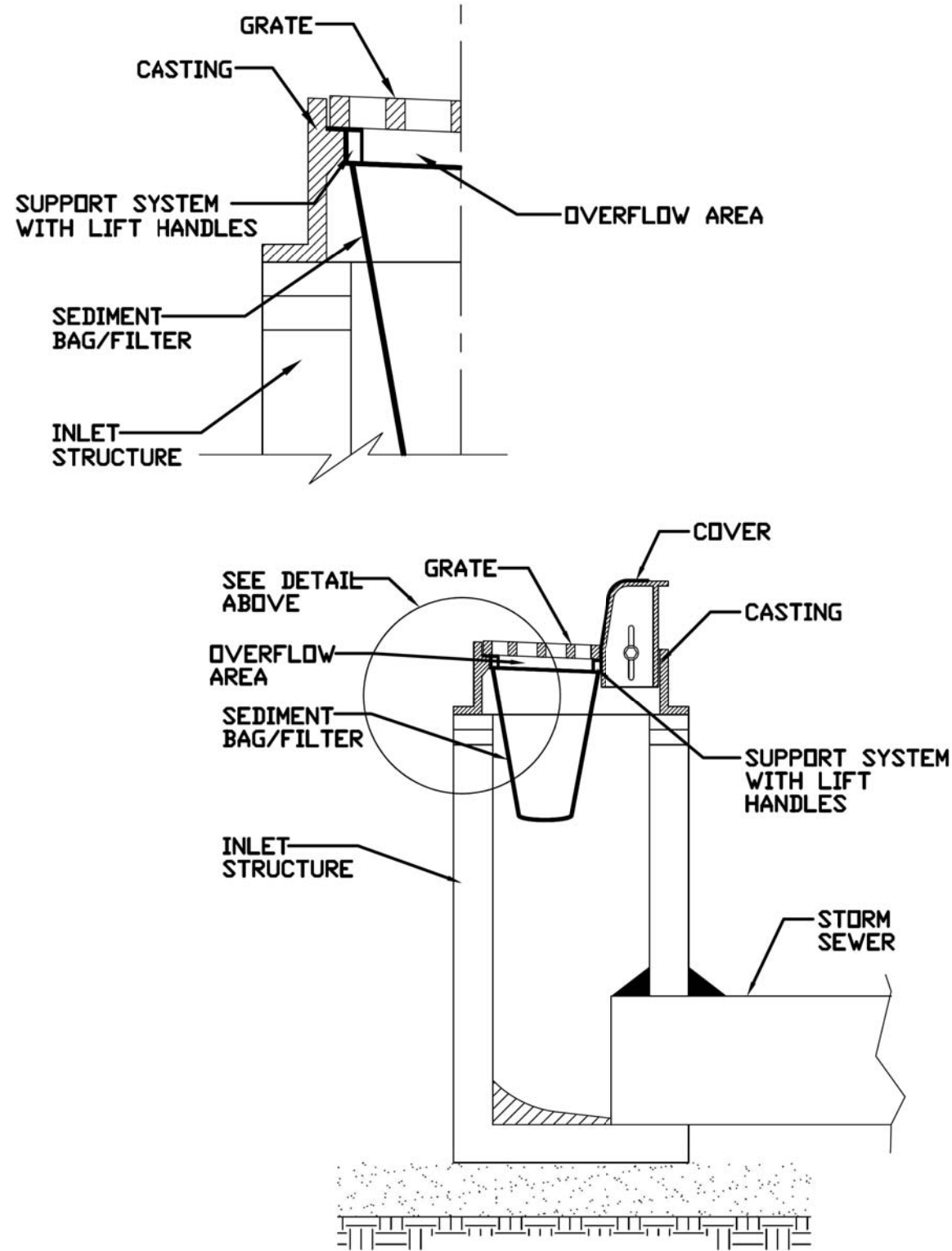
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LAKEVIEW PARKWAY IMPROVEMENT
CONSTRUCTION DETAILS

SHEET 9 OF 12 SHEETS

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
2419	98-00026-02-WR	LAKE	210	175
CONTRACT NO 61115				
ILLINOIS FED AID PROJECT				

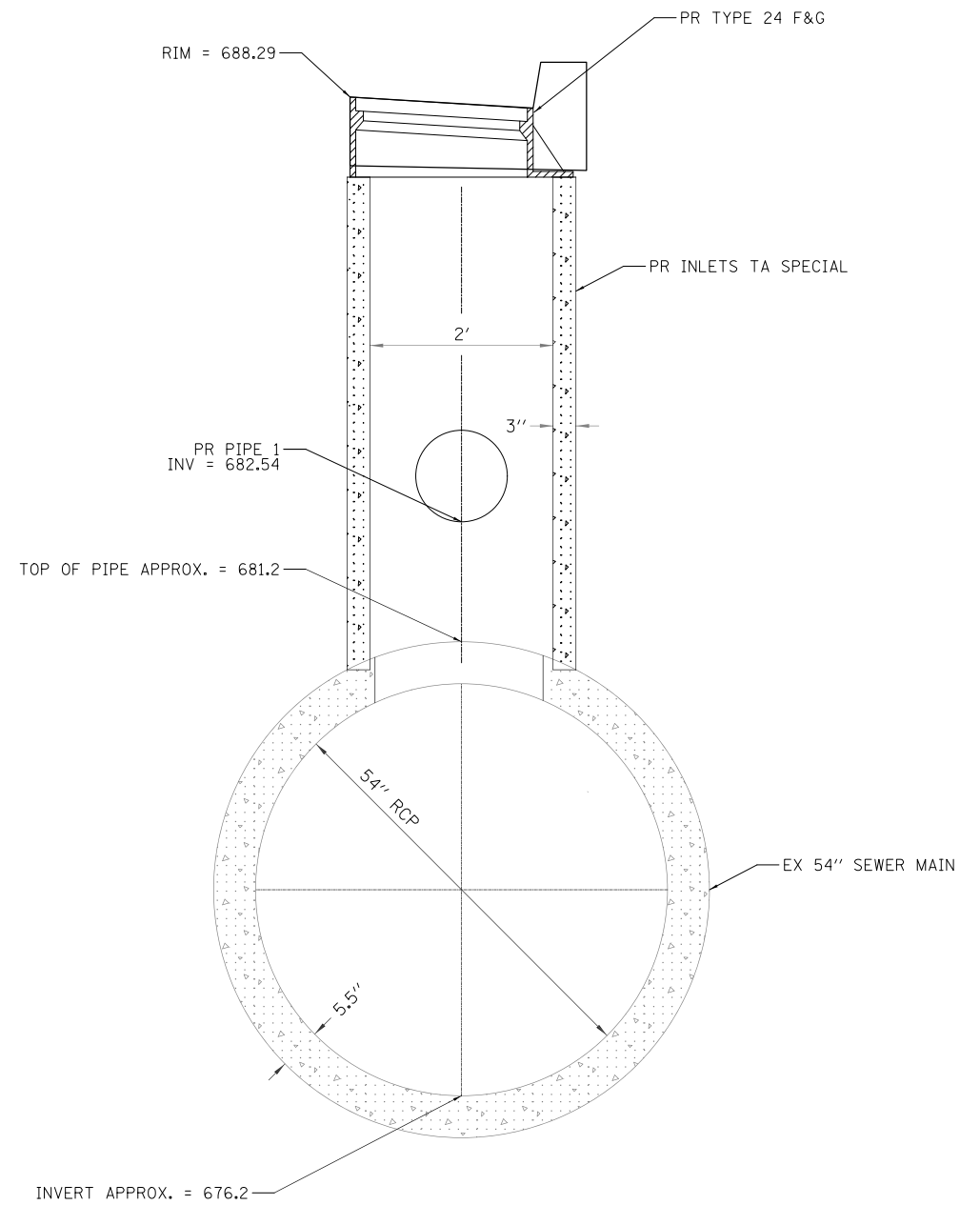
INLET PROTECTION - PAVED AREAS DROP-IN PROTECTION



REFERENCE	Project _____
Designed	_____ Date _____
Checked	_____ Date _____
Approved	_____ Date _____



STANDARD DWG. NO.
IUM-561D
SHEET 1 OF 1
DATE 01-11-11



INLETS TYPE A SPECIAL
DETAIL OF DROP TO 54" RCP

PLAN	SURVEYED	DATE
	PLOTTED	
NOTE BOOK	ALIGNMENT CHECKED	
	STRUCTURE NOTATION CHECKED	

PROFILE	SURVEYED	DATE
	GRADES CHECKED	
NOTE BOOK	STRUCTURE NOTATION CHECKED	

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FILE NAME: ...3447_ConstrDetail-01



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

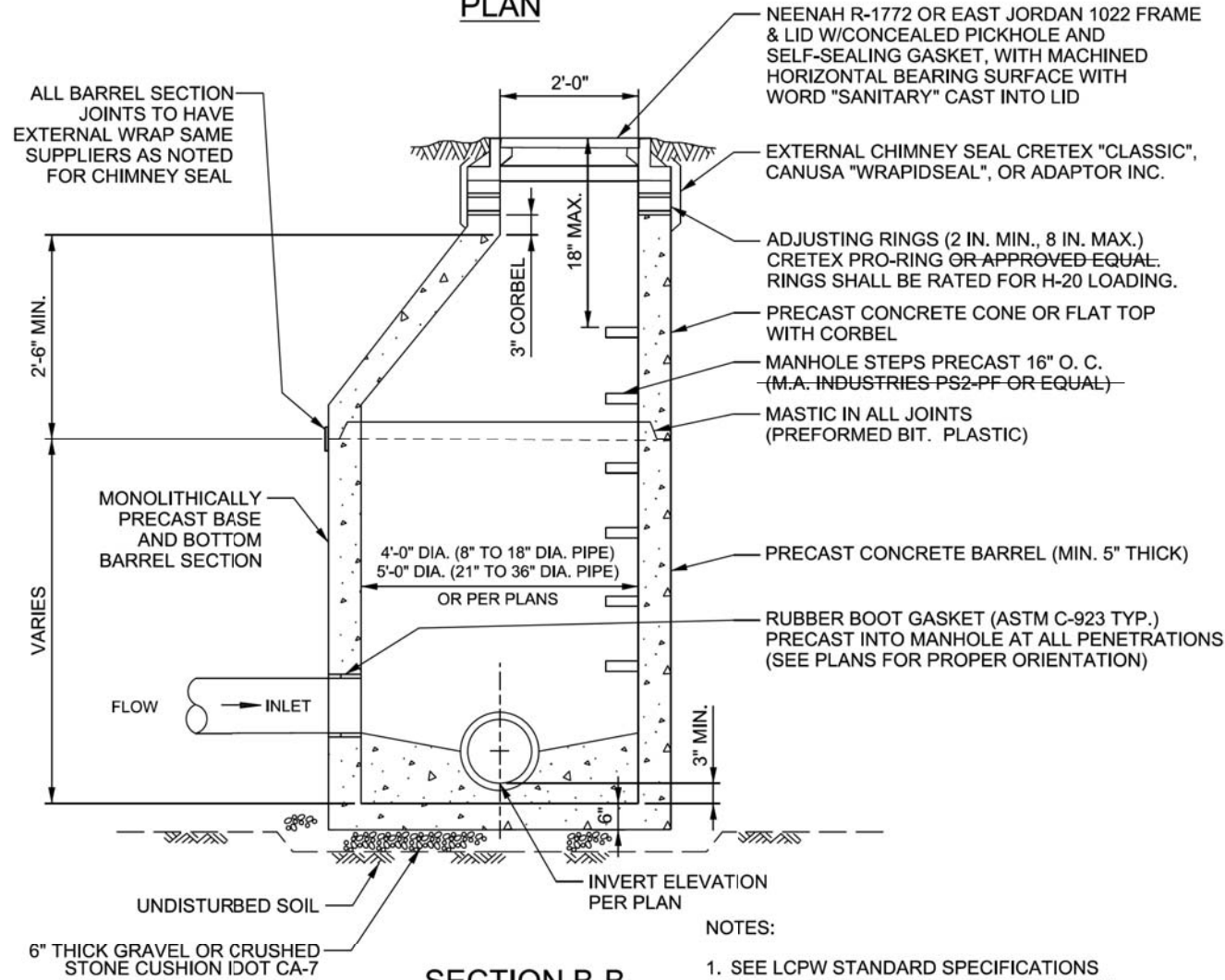
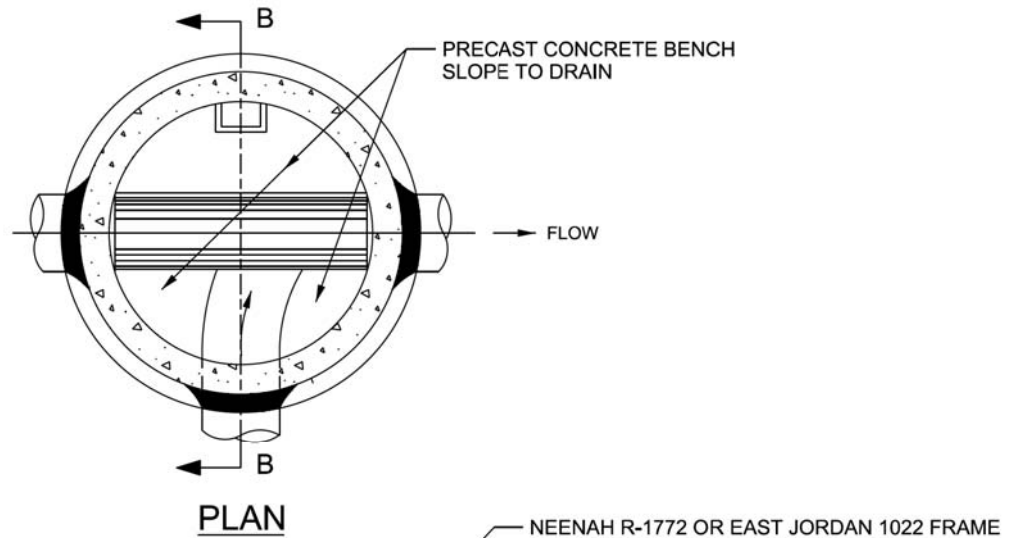
LAKEVIEW PARKWAY IMPROVEMENT
CONSTRUCTION DETAILS

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
2419	98-00026-02-WR	LAKE	210	176
CONTRACT NO 61115				
ILLINOIS FED AID PROJECT				

SHEET 10 OF 12 SHEETS

DATE	
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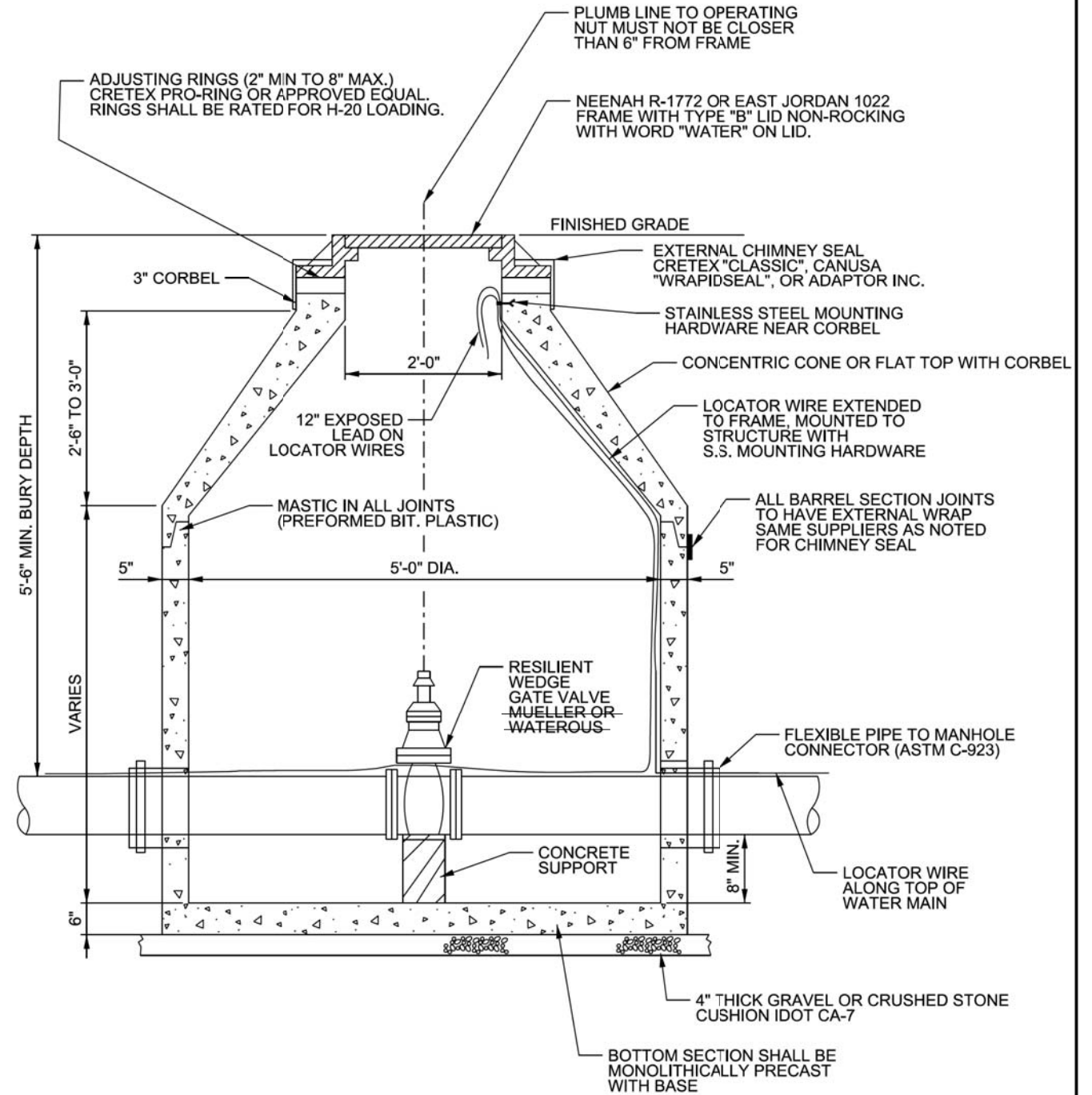


- NOTES:
1. SEE LCPW STANDARD SPECIFICATIONS FOR SPECIAL COATINGS AT FORCE MAIN DISCHARGE MANHOLES AND DROP MANHOLES.
 2. ALL MANHOLES SHALL BE VACUUM TESTED.

Lake County
Department of Public Works

SANITARY MANHOLE

DATE: 6/26/15	ID: 1
REVISIONS DATE	
ENG-MAIN. UPDATE 7/24/18	
ENG-MAIN. UPDATE 12/14/20	



- NOTES:
1. GATE VALVE SHALL HAVE STAINLESS STEEL HARDWARE
 2. STAINLESS STEEL VALVE STEM EXTENSION MAY BE REQUIRED IF STANDARD 8 FT VALVE KEY WILL NOT EXTEND 3 FT ABOVE FINISHED GROUND DURING OPERATION. USE OF VALVE STEM EXTENSION SHALL BE AT THE DISCRETION OF LCPW.

Lake County
Department of Public Works

VALVE VAULT

DATE: 6/26/15	ID: 5
REVISIONS DATE	
ENG-MAIN. UPDATE 9/20/18	
ENG-MAIN. UPDATE 12/14/20	

MODEL: SH06LMA005
FILE NAME: ...3447_ContdDetail-01

CIVILTECH
Two Pierce Place, Suite 1400
Itasca, Illinois 60143
Tel: 630.773.3900 Fax: 630.773.3975
www.civiltechinc.com

DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE - 11/02/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LAKEVIEW PARKWAY IMPROVEMENT
CONSTRUCTION DETAILS

SHEET 11 OF 12 SHEETS

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
2419	98-00026-02-WR	LAKE	210	177
CONTRACT NO 61115				
ILLINOIS FED AID PROJECT				

PLAN	SURVEYED	DATE
	PLOTTED	BY
NOTE BOOK NO.	ALIGNED	
	CADD FILE NAME	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
NOTE BOOK NO.	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	

MODEL: SMODELNAME
FILE NAME: ...3447_ConsDetail-01



Two Pierce Place, Suite 1400
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www.civiltechinc.com

DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE - 11/02/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LAKEVIEW PARKWAY IMPROVEMENT
CONSTRUCTION DETAILS

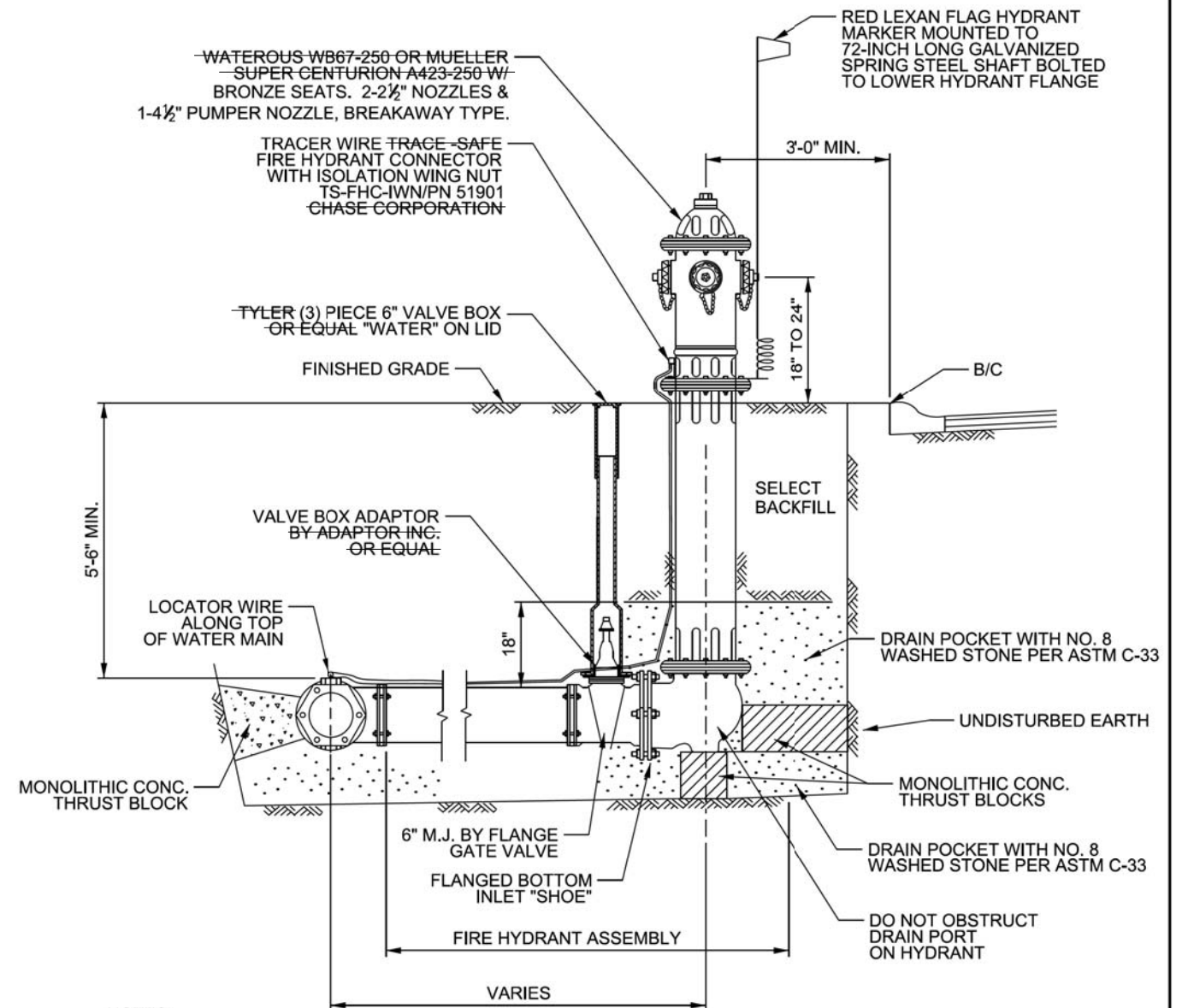
SHEET 12 OF 12 SHEETS

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
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CONTRACT NO 61115				
ILLINOIS FED AID PROJECT				

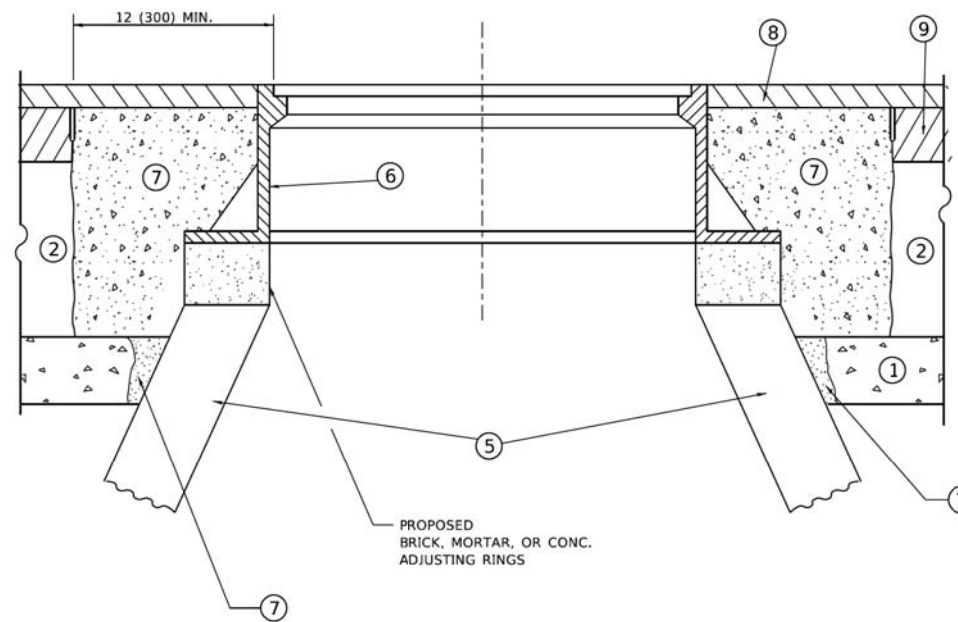
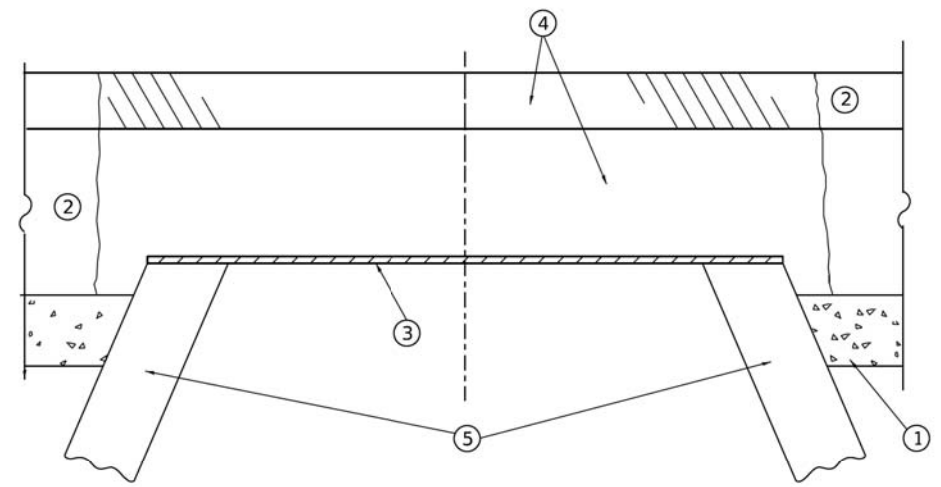


FIRE HYDRANT

DATE: 6/26/15	ID: 9
REVISIONS DATE	
ENG-MAIN. UPDATE 8/21/18	
ENG-MAIN. UPDATE 9/20/18	
ENG-MAIN. UPDATE 12/14/20	



- NOTES:
1. CONTRACTORS WILL SUPPLY HYDRANTS WITH ATTACHED AUXILIARY VALVES.
 2. COLOR OF HYDRANT TO BE SAFETY YELLOW, SHERWIN-WILLIAMS ENVIROLAST 940 (DTM) POLYASPARTIC URETHANE.
 3. IF DITCH ELEVATION PREVENTS 5'-6" MINIMUM COVER OVER HYDRANT LEAD, CONTRACTOR SHALL ROLL HYDRANT TEE DOWN AND PROVIDE VERTICAL BENDS BETWEEN TEE AND AUXILIARY VALVE.
 4. HYDRANT AND VALVE AND ALL FITTINGS SHALL HAVE STAINLESS STEEL HARDWARE. RESTRAINING GLANDS SHALL BE MEGALUG.
 5. CAP COLORS: BLUE >1500 GPM; GREEN 1,000-1,499 GPM; ORANGE 500-999 GPM; RED <500 GPM
 6. AT ALL FIRE HYDRANT LEADS TRACER WIRE SHALL BE LOOPED ALONG THE HYDRANT LEAD TO THE TRACER WIRE BOX AND BACK TO THE MAIN.
 7. FIRE HYDRANTS SHALL BE PLACED SO THAT NO EXISTING ABOVE GROUND FIXED OBJECT IS WITHIN 48 INCHES OF THE HYDRANT AS MEASURED HORIZONTALLY PER ILLINOIS PUBLIC ACT 85-343.



**DETAILS FOR FRAMES AND LIDS ADJUSTMENT
WITH MILLING**

CONSTRUCTION PROCEDURES

STAGE 1 (BEFORE PAVEMENT MILLING)

- A) REMOVE A MINIMUM OF 12 (300) OF THE PAVEMENT FROM AROUND THE STRUCTURE.
- B) REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.
- C) COVER THE STRUCTURE OPENING WITH A 36 (900) DIAMETER METAL PLATE.
- D) BACKFILL WITH CRUSHED STONE AND HMA SURFACE MIX APPROVED BY THE ENGINEER. (MIN. 1 1/2 (40) HMA TO REMAIN AFTER MILLING).

STAGE 2 (AFTER PAVEMENT MILLING)

- A) REMOVE THE HMA SURFACE MIX AND CRUSHED STONE.
- B) INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.
- C) THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS*PP-1 CONCRETE TO THE ELEVATION OF THE SURFACE OF THE EXISTING BASE COURSE OR THE BINDER COURSE.

* UNLESS OTHERWISE SPECIFIED IN THE PLANS.

THE PROCEDURE EXPLAINED ABOVE SHALL CONFORM TO THE APPLICABLE PORTIONS OF SECTIONS 353, 406, 602, AND 603 OF THE STANDARD SPECIFICATIONS EXCEPT THAT "THE CONTRACTOR SHALL ADJUST THE STRUCTURES TO THE FINISHED PAVEMENT ELEVATION NO MORE THAN 5 CALENDAR DAYS PRIOR TO PLACEMENT OF THE FINAL LIFT OF SURFACE UNLESS APPROVED BY THE ENGINEER."

LEGEND

- | | |
|--|-------------------------------|
| ① SUB-BASE GRANULAR MATERIAL | ⑥ FRAME AND LID (SEE NOTES) |
| ② EXISTING PAVEMENT | ⑦ CLASS*PP-1 CONCRETE |
| ③ 36 (900) DIAMETER METAL PLATE | ⑧ PROPOSED HMA SURFACE COURSE |
| ④ PROPOSED CRUSHED STONE AND HMA SURFACE MIX | ⑨ PROPOSED HMA BINDER COURSE |
| ⑤ EXISTING STRUCTURE | |

LOCATION OF STRUCTURES

THE CONTRACTOR WILL BE REQUIRED TO KEEP A RECORD OF THE LOCATIONS OF THE BURIED STRUCTURES ACCORDING TO THE STATION AND DISTANCE LEFT OR RIGHT OF THE CENTERLINE OF PAVEMENT. UPON COMPLETION OF THE WORK, THE CONTRACTOR WILL DELIVER THE RECORD TO THE ENGINEER.

BASIS OF PAYMENT

- 1. REMOVING FRAMES AND LIDS ON DRAINAGE AND UTILITY STRUCTURES IN THE PAVEMENT PRIOR TO MILLING, AND ADJUSTING TO FINAL GRADE PRIOR TO PLACING THE SURFACE COURSE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR "FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)."
- 2. THIS WORK WILL NOT BE PAID FOR WHEN DRAINAGE AND UTILITY STRUCTURES ARE SPECIFIED FOR PAYMENT AS STRUCTURE RECONSTRUCTION.
- 3. NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL BE PAID FOR SEPARATELY.
- 4. WHEN STRUCTURES ARE TO BE ADJUSTED OR RECONSTRUCTED, THE LOWERING AND RAISING OF THE FRAMES AND LIDS WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE CORRESPONDING PAY ITEM.

NOTES

- 1. EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.
- 2. IF THE EXISTING LIDS ARE OPEN, THE FRAME WILL BE ADJUSTED TO THE ELEVATION OF THE MILLED PAVEMENT SURFACE PRIOR TO THE MILLING OPERATION. THE FRAME WILL NOT BE REMOVED AND COVERED BY THE METAL PLATE.
- 3. CITY OF CHICAGO CASTINGS ARE THE PROPERTY OF THE CITY AND THE CONTRACTOR SHALL NOTIFY THE CITY FOR REMOVAL AND DISPOSITION OF THE CASTINGS.
- 4. THE METAL PLATE USED TO COVER THE STRUCTURE SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

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	DRAWN -	REVISED - R. BORO 03-09-11
PLOT SCALE = 100.0000" / in.	CHECKED -	REVISED - R. BORO 12-06-11
PLOT DATE = 2/2/2022	DATE - 10-25-94	REVISED - K. SMITH 02-01-22

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETAILS FOR
FRAMES AND LIDS ADJUSTMENT WITH MILLING**

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

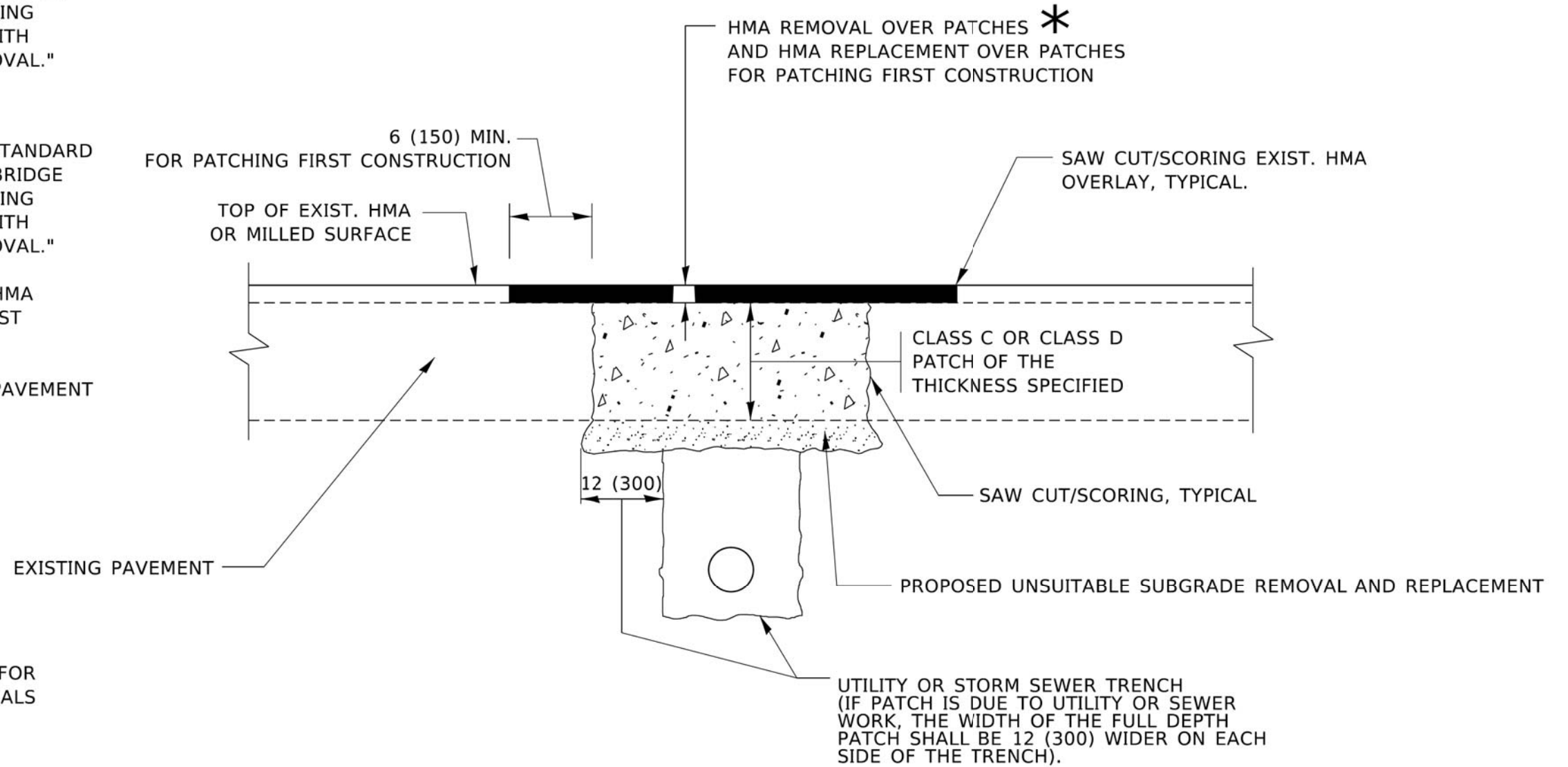
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2419	98-00026-02-WR	LAKE	210	179
BD600-03 (BD-08)			CONTRACT NO. 61115	
ILLINOIS FED. AID PROJECT				

METHOD OF MEASUREMENT

REFER TO SECTION 442 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL."

BASIS OF PAYMENT

1. REFER TO SECTION 442 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL."
2. SAW CUT/SCORING OF EXISTING HMA OVERLAY IS INCLUDED IN THE COST OF PAVEMENT PATCHING.
3. SAW CUT/SCORING OF EXISTING PAVEMENT IS INCLUDED IN THE COST OF PAVEMENT PATCHING.



* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

1. MILL HMA FIRST IF THERE IS AT LEAST 4½ INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN PLACE AFTER MILLING.
2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

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

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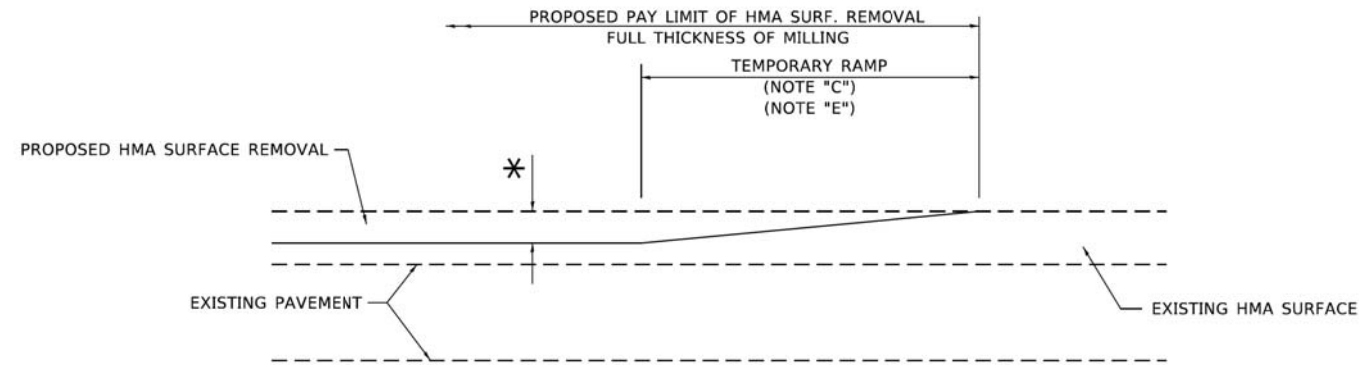
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PLOT DATE = 2/2/2022	DATE - 10-25-94	REVISED - K. SMITH 02-01-22

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT PATCHING FOR
HMA SURFACED PAVEMENT

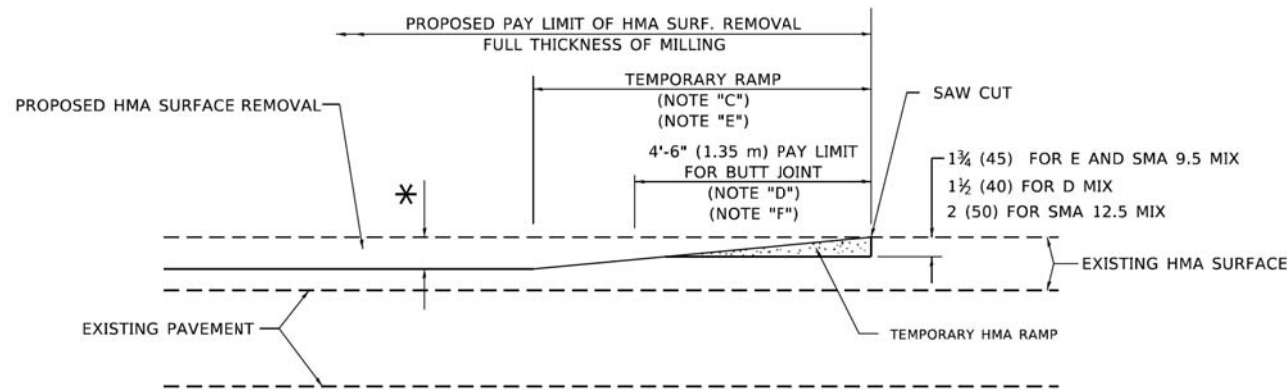
SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2419	98-00026-02-WR	LAKE	210	180
BD400-04 (BD-22)			CONTRACT NO. 61115	
ILLINOIS FED. AID PROJECT				



MILLED TEMPORARY RAMP
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

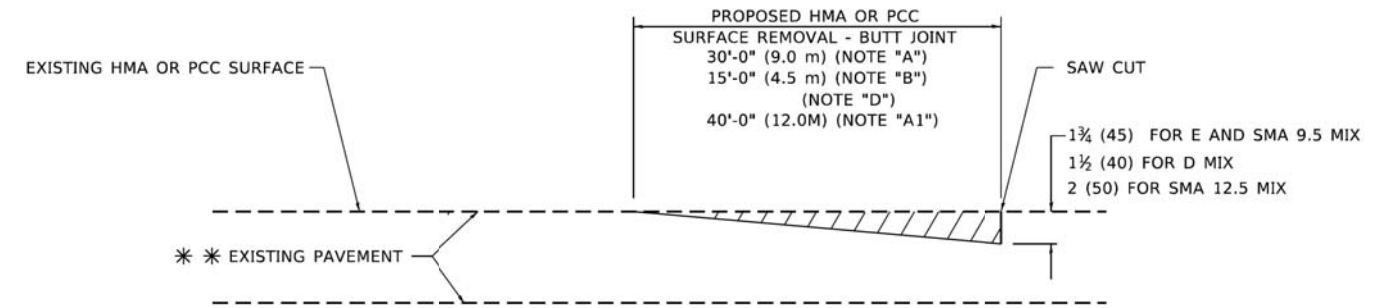
OPTION 1



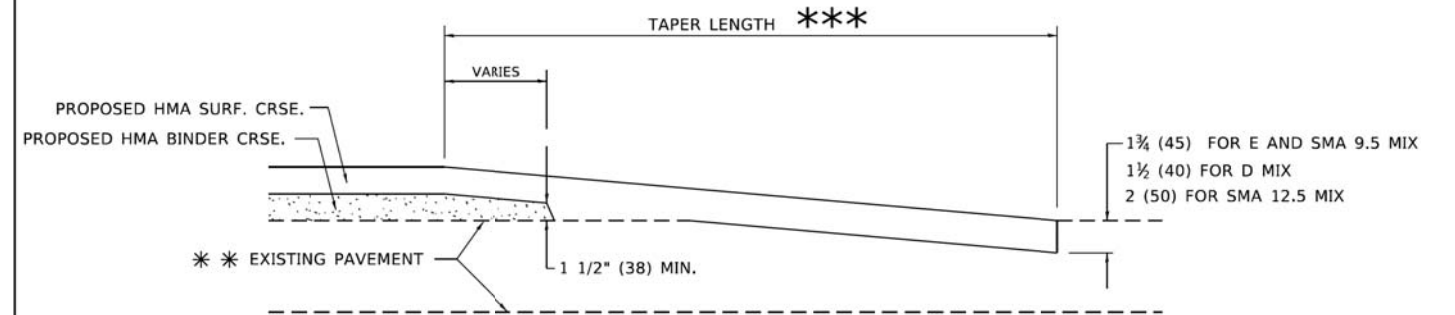
HMA CONSTRUCTED TEMPORARY RAMP
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 2

TYPICAL TEMPORARY RAMP



BUTT JOINT DETAIL



HMA TAPER DETAIL

TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

*** PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

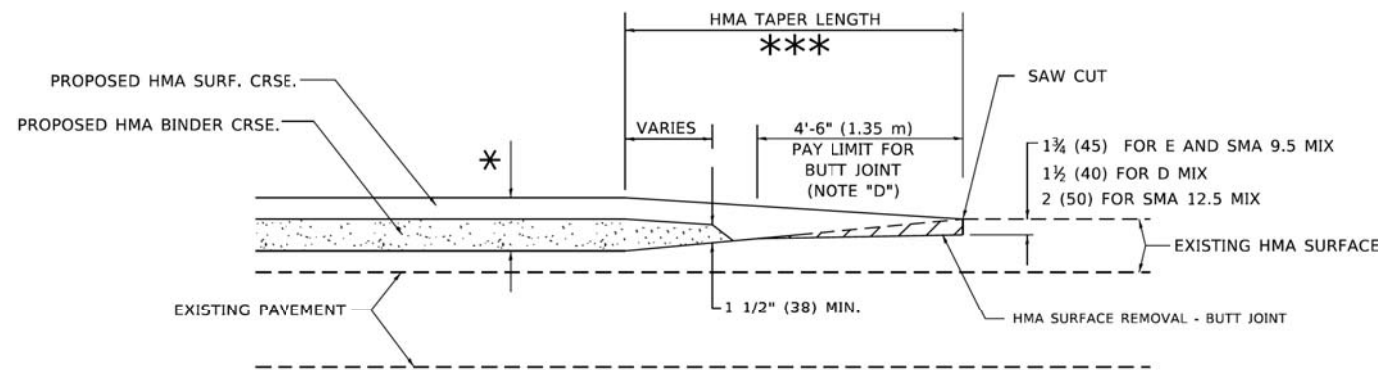
GENERAL NOTES

- A. MAINLINE ARTERIAL ROADWAYS AND MAJOR SIDE ROADS.
- A1. INTERSTATES
- B. MINOR SIDE ROADS.
- C. THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
- D. THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
- E. TAPER THE TEMP. RAMP AT A RATE OF 3' - 4" (1.02m) PER 1 INCH (25 mm) OF MILLING THICKNESS.
* SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- F. SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
*** 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")
10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

BASIS OF PAYMENT

- 1. THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL- BUTT JOINT".
- 2. THE TEMPORARY RAMP AND SAW CUT SHALL BE INCLUDED IN THE UNIT COST FOR HMA OR PCC SURFACE REMOVAL-BUTT JOINT.

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



BUTT JOINT AND HMA TAPER

TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING

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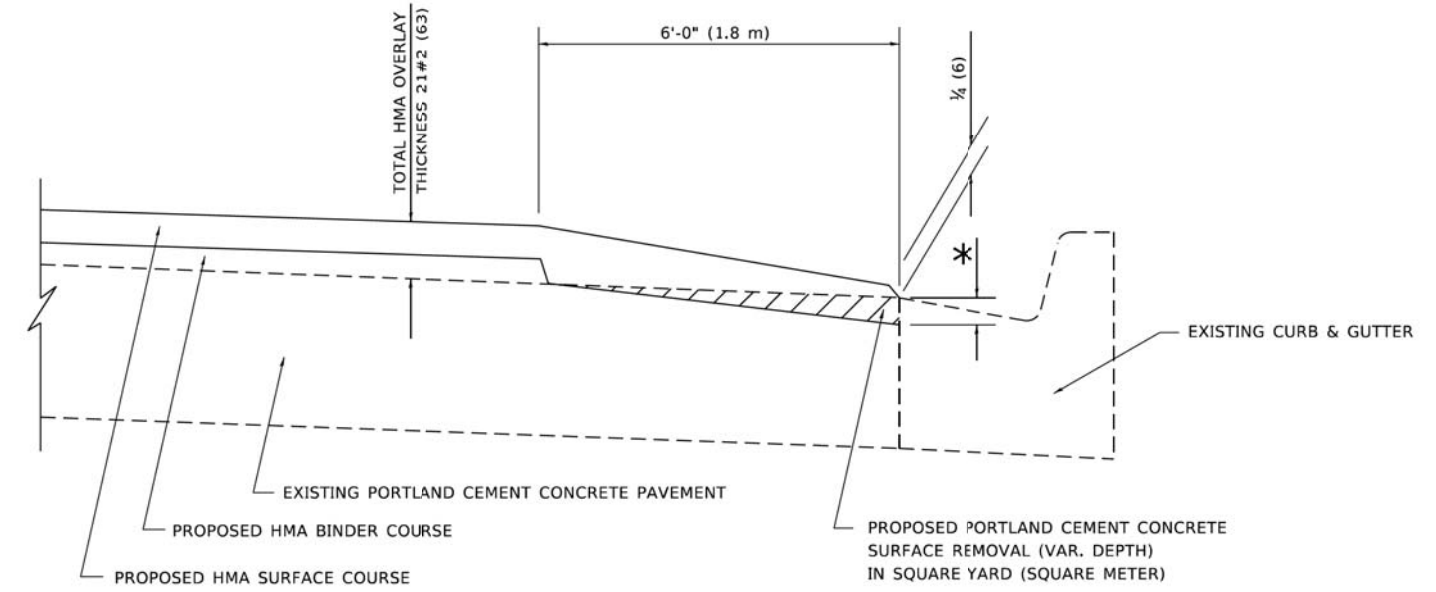
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PLOT DATE = 2/2/2022	DATE - 06-13-90	REVISED - K. SMITH 02-01-22

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BUTT JOINT AND
HMA TAPER DETAILS

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2419	98-00026-02-WR	LAKE	210	181
BD400-05 BD-32			CONTRACT NO. 61115	
ILLINOIS FED. AID PROJECT				



**HMA TAPER AT
EDGE OF P.C.C. PAVEMENT**

HMA SURFACE COURSE	HMA BINDER COURSE	* MILLING AT GUTTER FLAG	
MIX	THICKNESS	THICKNESS	
D	1 1/2 (38)	1 (25)	1 1/4 (33)
E OR SMA 9.5	1 3/4 (44)	3/4 (19)	1 1/2 (38)

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

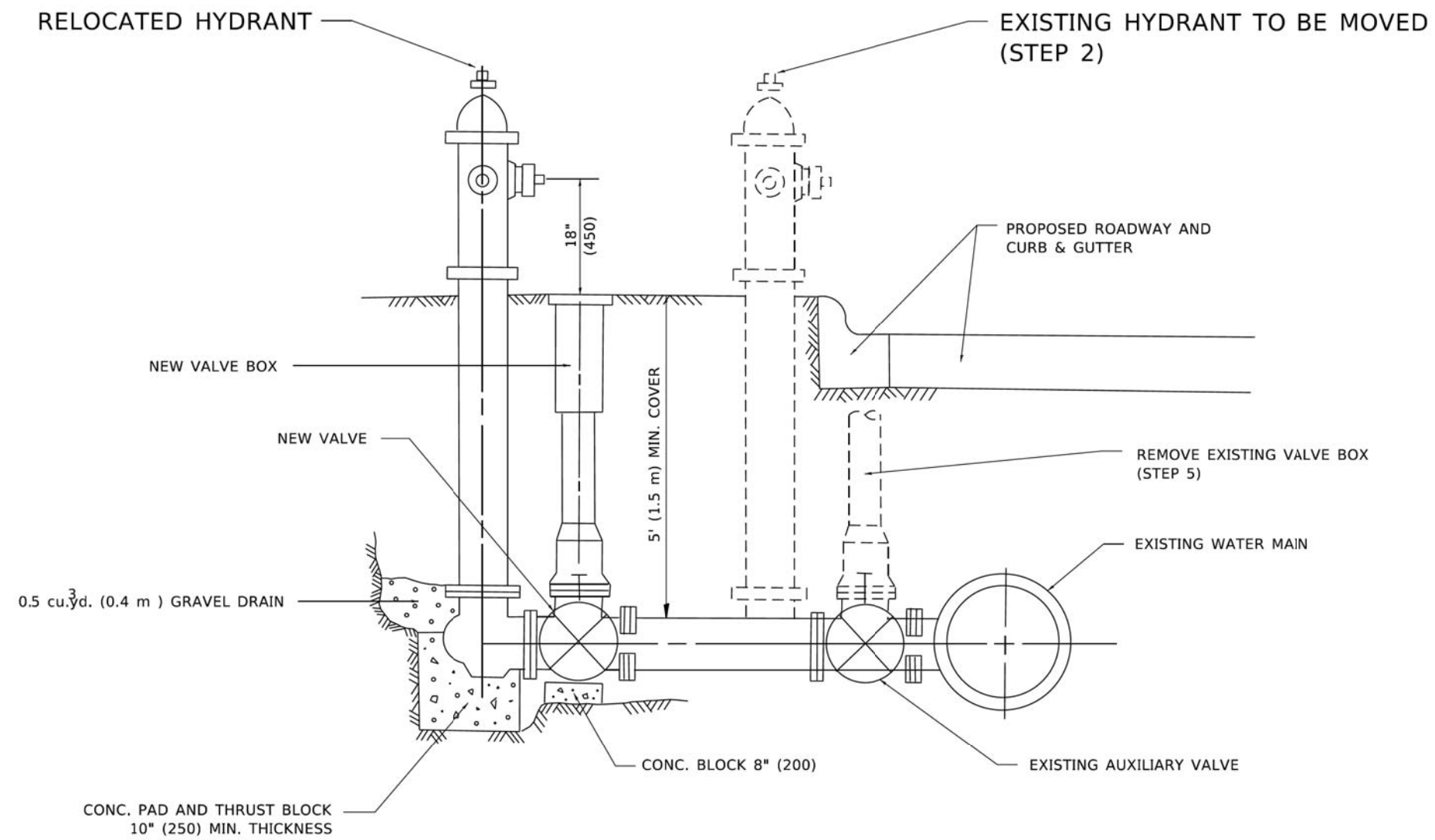
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PLOT SCALE = 100.0000' / in.	CHECKED - A. ABBAS	REVISED - JP CHANG 07-08-16
PLOT DATE = 2/2/2022	DATE - 09-10-94	REVISED - K. SMITH 02-01-22

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

HMA TAPER AT EDGE OF P.C.C. PAVEMENT			
SCALE: NONE	SHEET 1 OF 1 SHEETS	STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2419	98-00026-02-WR	LAKE	210	182
BD400-06		BD-33	CONTRACT NO. 61115	
ILLINOIS FED. AID PROJECT				



SEQUENCE OF CONSTRUCTION:

1. CLOSE EXISTING VALVE.
2. REMOVE EXISTING HYDRANT.
3. INSTALL HYDRANT EXTENSION AND NEW VALVE.
4. RELOCATE EXISTING HYDRANT.
5. OPEN EXISTING VALVE, REMOVE BOX.
6. BACKFILL.
7. FLUSH AND TEST FOR CHLORIDE RESIDUAL AND PROVIDE TEST.

NOTE:

ALL WORK TO BE DONE IN ACCORDANCE WITH SECTION 564 OF THE STANDARD SPECIFICATIONS. NEW VALVE AND BOX SHALL BE SAME MAKE AND MODEL AS EXISTING.

FIRE HYDRANT TO BE MOVED

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

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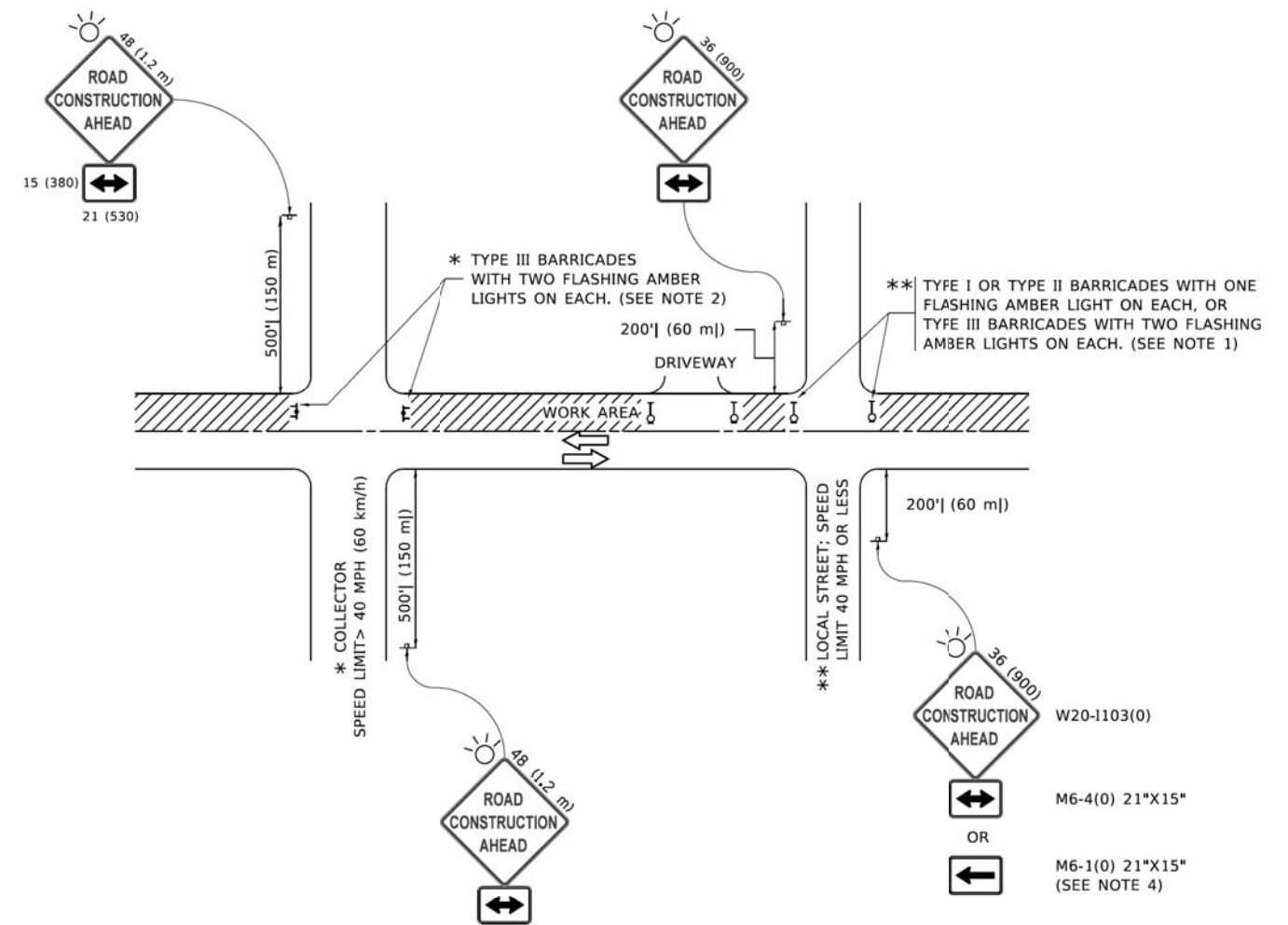
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PLOT DATE = 2/2/2022	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

FIRE HYDRANT TO BE MOVED

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2419	98-00026-02-WR	LAKE	210	183
BD-36			CONTRACT NO. 61115	
ILLINOIS FED. AID PROJECT				



NOTES:

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

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

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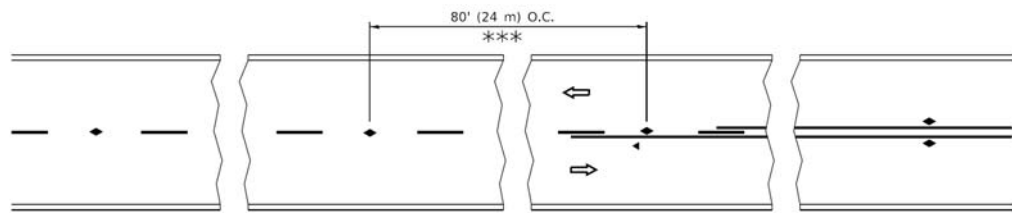
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	DRAWN -	REVISED - T. RAMMACHER 01-06-00
PLOT SCALE = 50.0000" = 1 in.	CHECKED -	REVISED - A. SCHUETZE 07-01-13
PLOT DATE = 3/4/2019	DATE - 06-89	REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

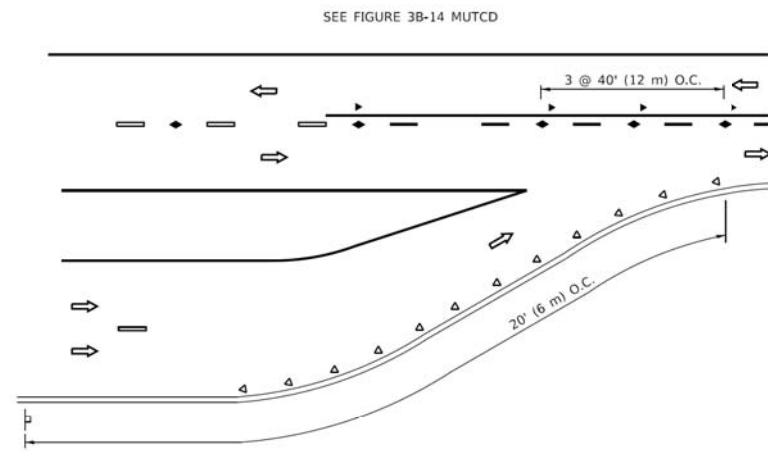
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2419	98-00026-02-WR	LAKE	210	184
TC-10			CONTRACT NO. 61115	
ILLINOIS FED. AID PROJECT				

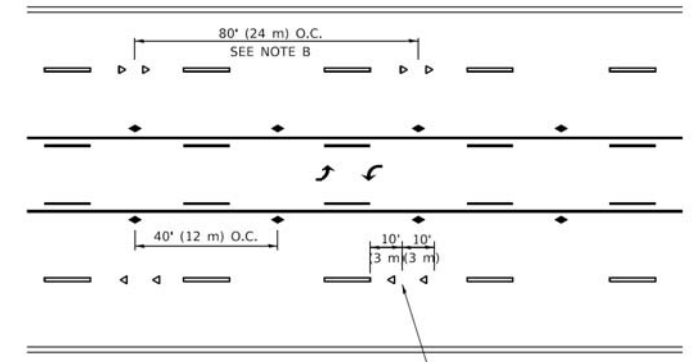


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

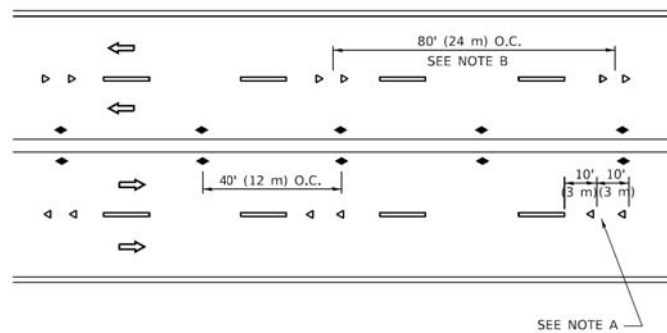
TWO-LANE/TWO-WAY



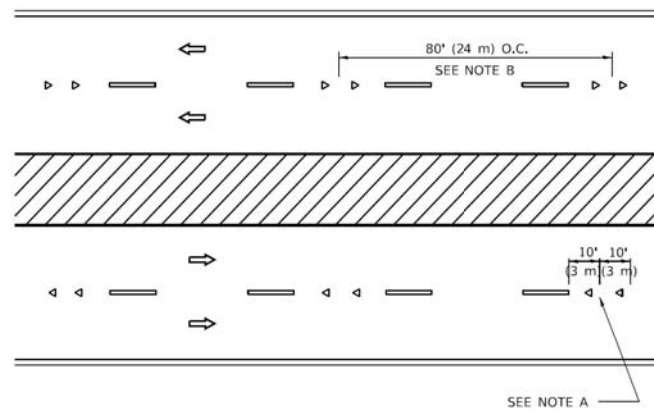
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.
4. MARKERS ARE TO BE USED ADJACENT TO BOTH SOLID WHITE LINES IN DUAL LEFT TURN LANES

SYMBOLS

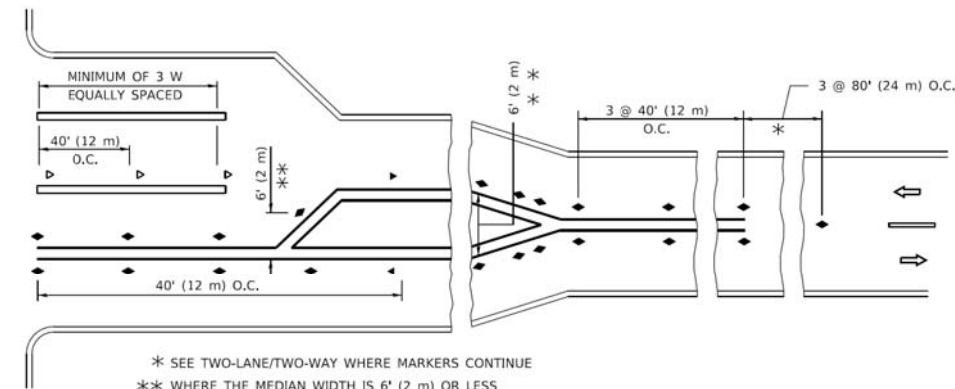
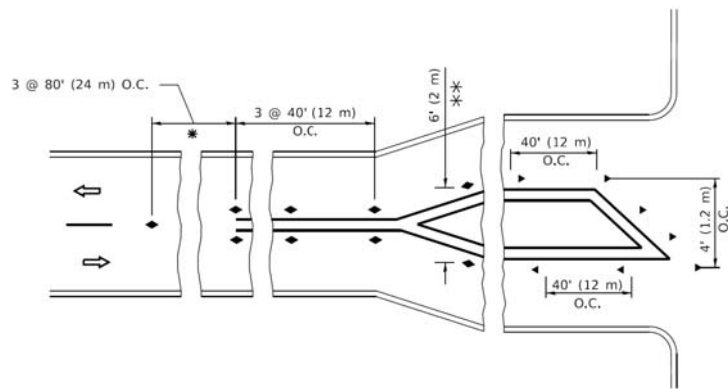
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◀ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

LANE MARKER NOTES

- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.
- B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H (20 km/h) LOWER THAN POSTED SPEEDS.

DESIGN NOTES

1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHALL BE INCLUDED IN THE PLANS WHEN STANDARD SPECIFICATIONS ARE NOT BEING USED.
4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.



TURN LANES

* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE
 *** WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

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

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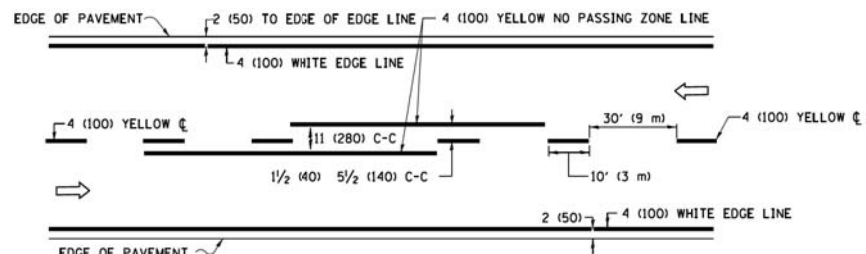
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

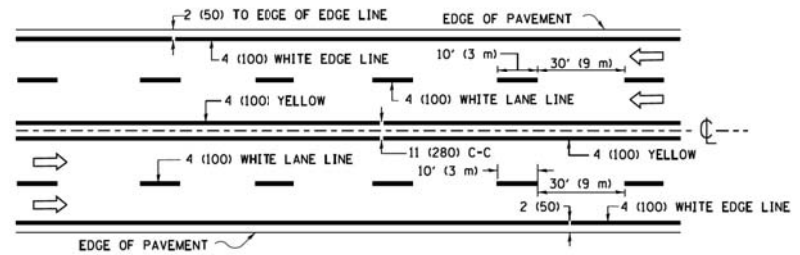
TYPICAL APPLICATIONS
 RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)

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

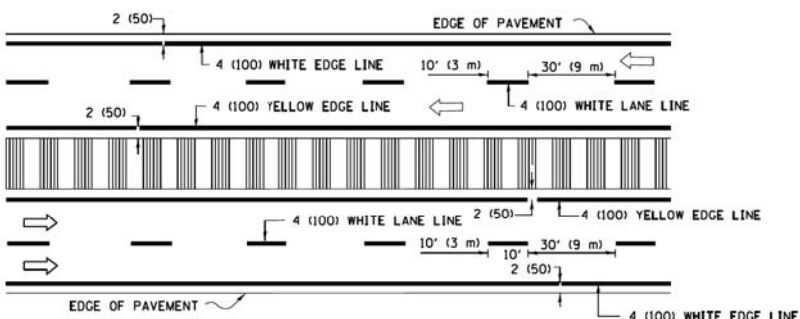
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TC-11		CONTRACT NO. 61115		
ILLINOIS		FED. AID PROJECT		



2-LANE ROADWAY

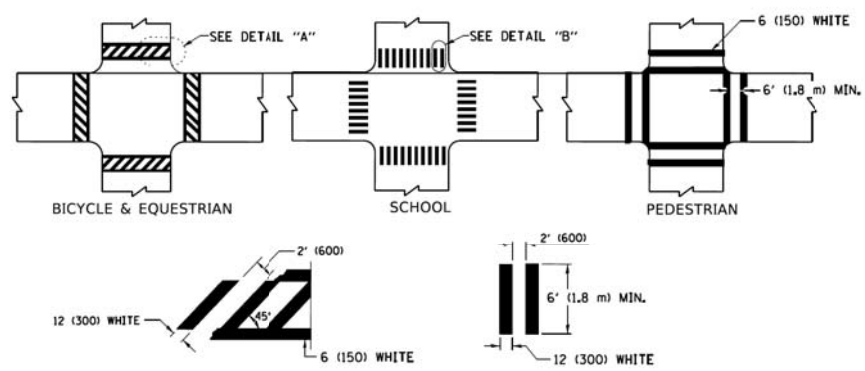


MULTI-LANE UNDIVIDED



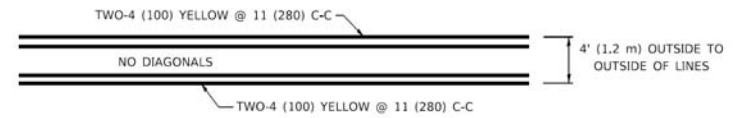
MULTI-LANE DIVIDED WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING

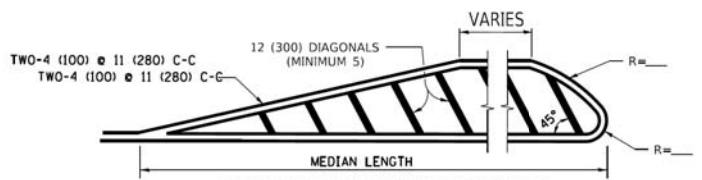


TYPICAL CROSSWALK MARKING

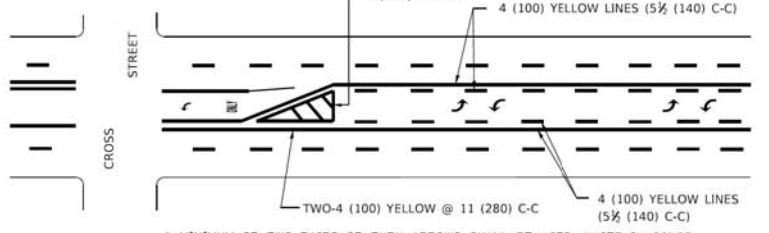
* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES



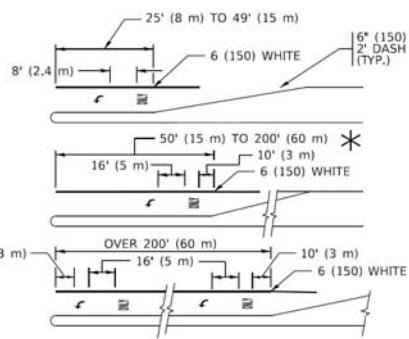
4' (1.2 m) WIDE MEDIANS ONLY



MEDIANS OVER 4' (1.2 m) WIDE



MEDIAN WITH TWO-WAY LEFT TURN LANE TYPICAL PAINTED MEDIAN MARKING

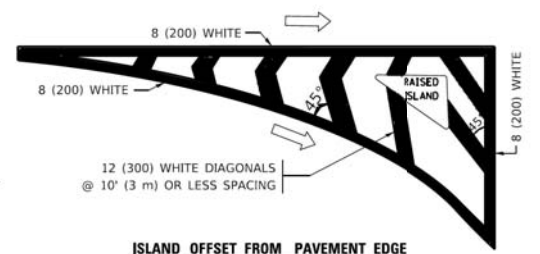


TYPICAL LEFT (OR RIGHT) TURN LANE

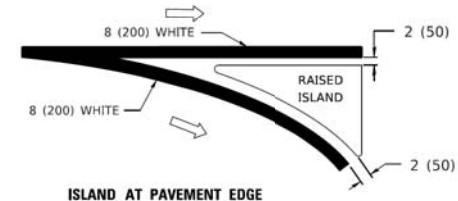
TYPICAL TURN LANE MARKING

FULL SIZE LETTERS 8" (2.4 m) AND ARROWS SHALL BE USED. AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)

* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - *ONLY* INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - *ONLY*.

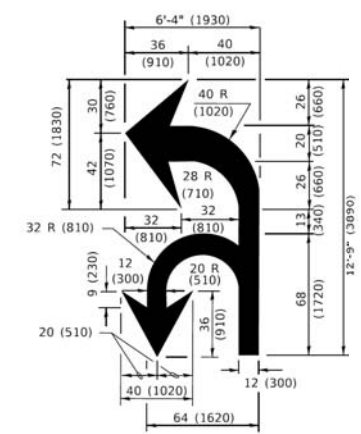


ISLAND OFFSET FROM PAVEMENT EDGE

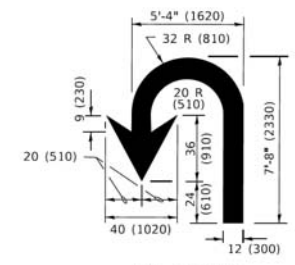


ISLAND AT PAVEMENT EDGE

TYPICAL ISLAND MARKING



COMBINATION LEFT AND U-TURN



U-TURN

LANE REDUCTION TRANSITION
* LANE REDUCTION ARROWS REQUIRED AT SPEEDS OF 45 MPH OR GREATER OR WHEN SPECIFIED IN PLANS.

D(FT)	SPEED LIMIT
345	30
425	35
500	40
580	45
665	50
750	55

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5 1/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE: FULL SIZE LETTERS & SYMBOLS (8" (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8" (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5 1/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE.
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.3 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES: "RR" 15 8" (1.8 m) LETTERS: 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: *R*=3.6 SQ. FT. (0.33 m ²) EACH *X*=54.0 SQ. FT. (5.0 m ²)
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS ≥ 8')	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

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

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		C. JUCIUS 07-01-13
		C. JUCIUS 12-21-15
		C. JUCIUS 04-12-16

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DISTRICT ONE	
TYPICAL PAVEMENT MARKINGS	
SCALE: NONE	SHEET 1 OF 2 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2419	98-0026-02-WR	LAKE	210	186
TC-13			CONTRACT NO. 61115	
ILLINOIS FED. AID PROJECT				

TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER

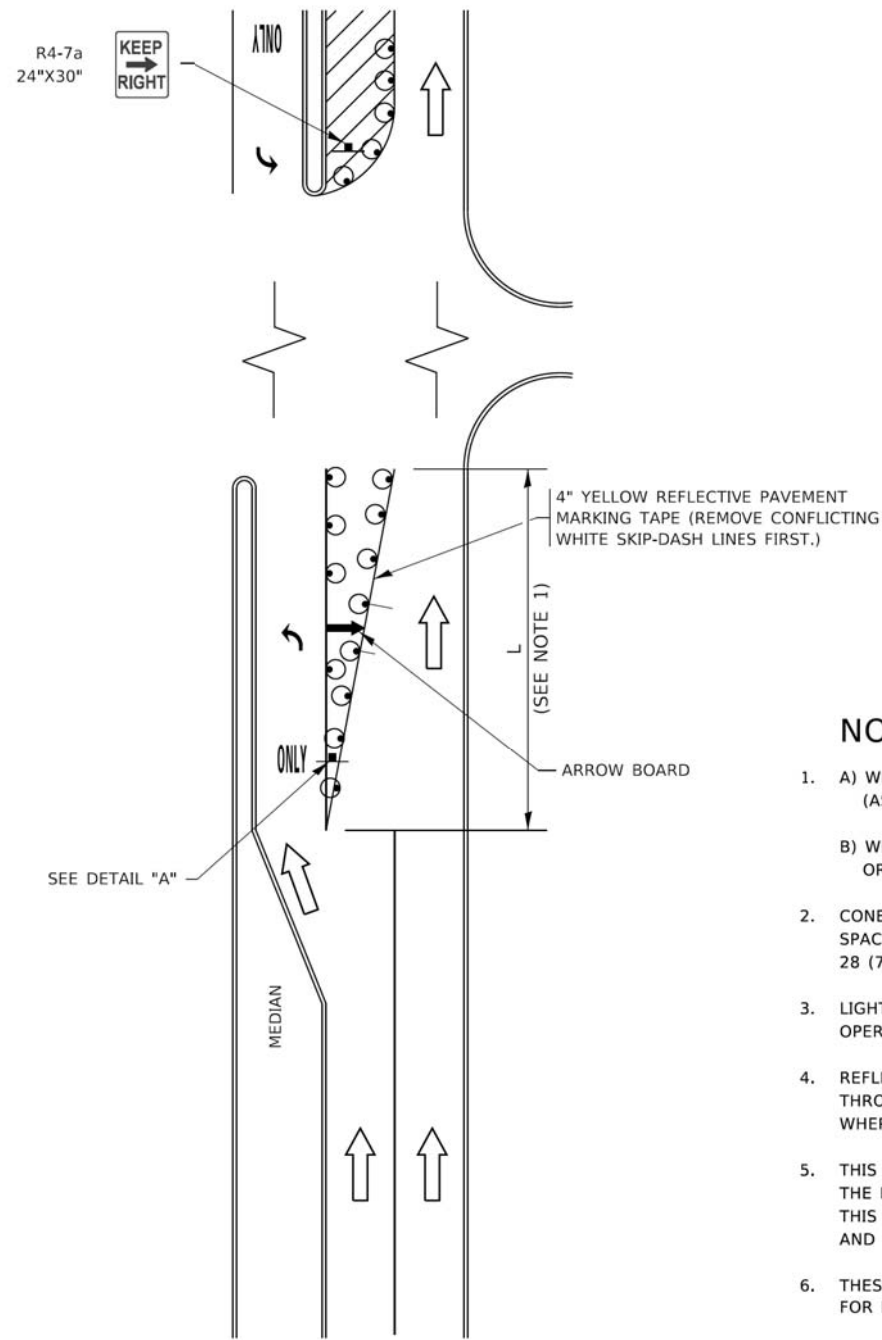


FIGURE 1

TURN BAY ENTRANCE WITHIN A LANE CLOSURE

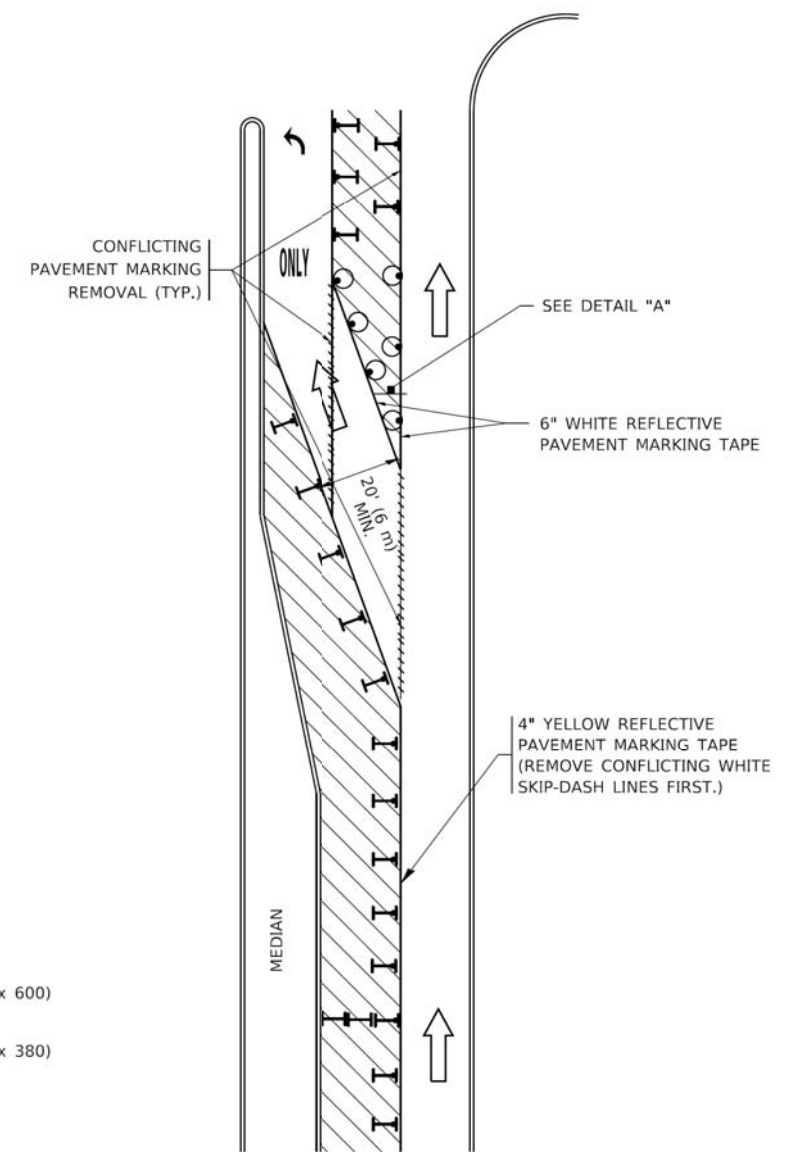


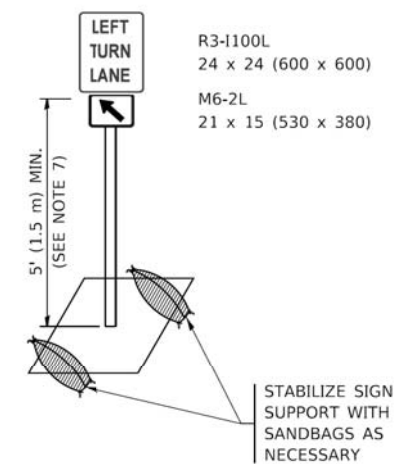
FIGURE 2

LEGEND

- WORK AREA
- LANE OPEN TO TRAFFIC
- ARROW BOARD
- TYPE I OR II BARRICADE OR DRUM WITH STEADY BURN LIGHT
- DRUM WITH STEADY BURN LIGHT
- SIGN ASSEMBLY
- TYPE I OR II CHECK BARRICADE WITH FLASHING LIGHT

NOTES:

1. A) WHEN "L" IS \leq THE STORAGE LENGTH OF THE TURN LANE (AS SHOWN IN FIG. 1), USE FIGURE 1.
B) WHEN "L" IS $>$ THE STORAGE LENGTH OF THE TURN LANE OR THE TURN LANE IS WITHIN THE LANE CLOSURE, USE FIGURE 2.
2. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
3. LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
4. REFLECTIVE TEMPORARY PAVEMENT MARKINGS SHALL BE PLACED THROUGHOUT THE BARRICADED AREAS OF EACH TURN BAY AS SHOWN WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN (14) DAYS.
5. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-1100R 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.
6. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
7. THE SIGNS SHALL BE MOUNTED ABOVE THE BARRICADES/DRUMS ON SEPARATE SIGN SUPPORTS THAT MEET NCHRP 350 OR MASH REQUIREMENTS.
8. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.



DETAIL A

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

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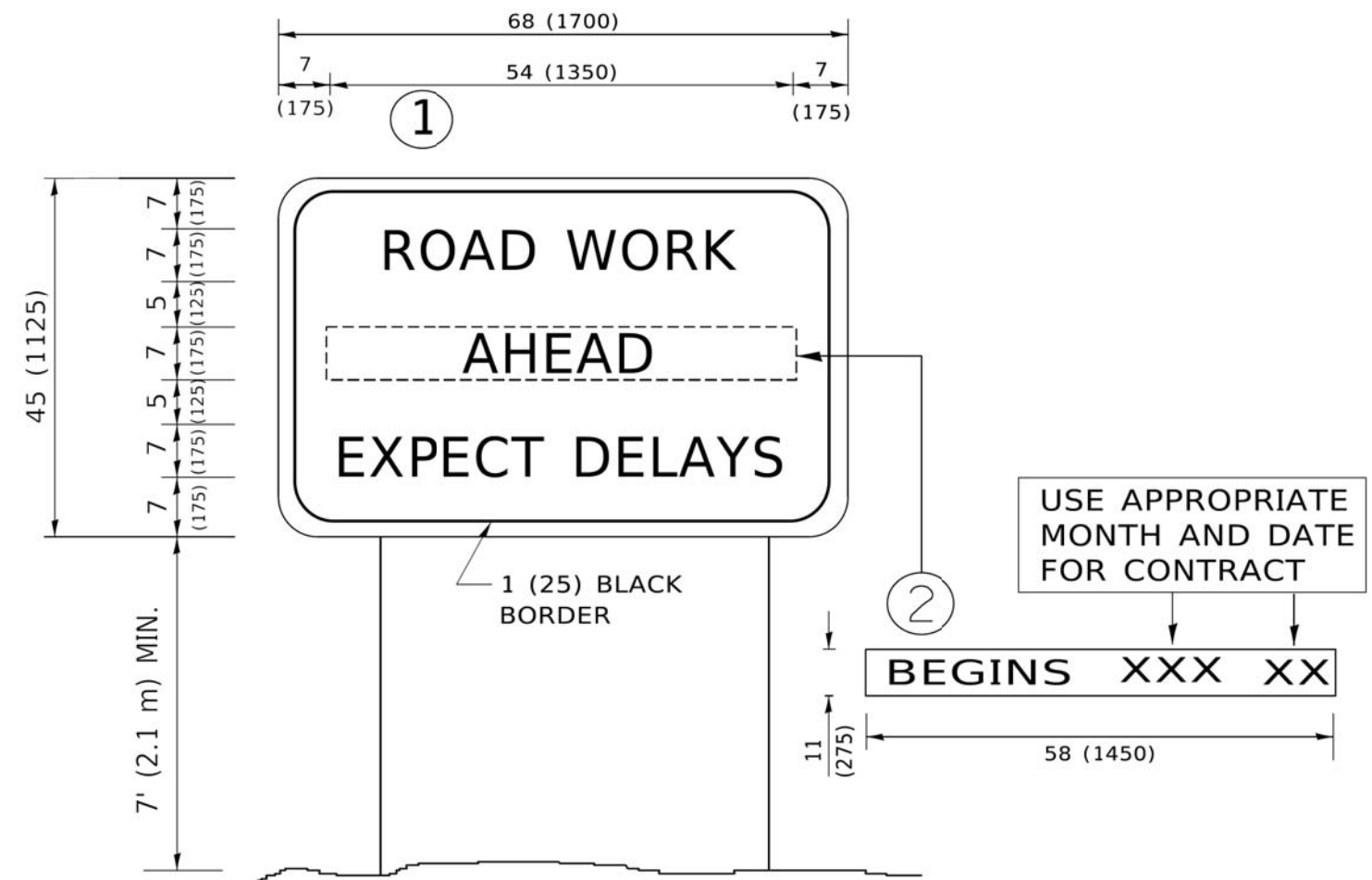
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PLOT DATE = 3/4/2019	DATE - T. RAMMACHER 01-06-00	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND PROTECTION AT TURN BAYS
(TO REMAIN OPEN TO TRAFFIC)

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2419	98-0026-02-WR	LAKE	210	187
TC-14		CONTRACT NO. 61115		
ILLINOIS FED. AID PROJECT				



NOTES:

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

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

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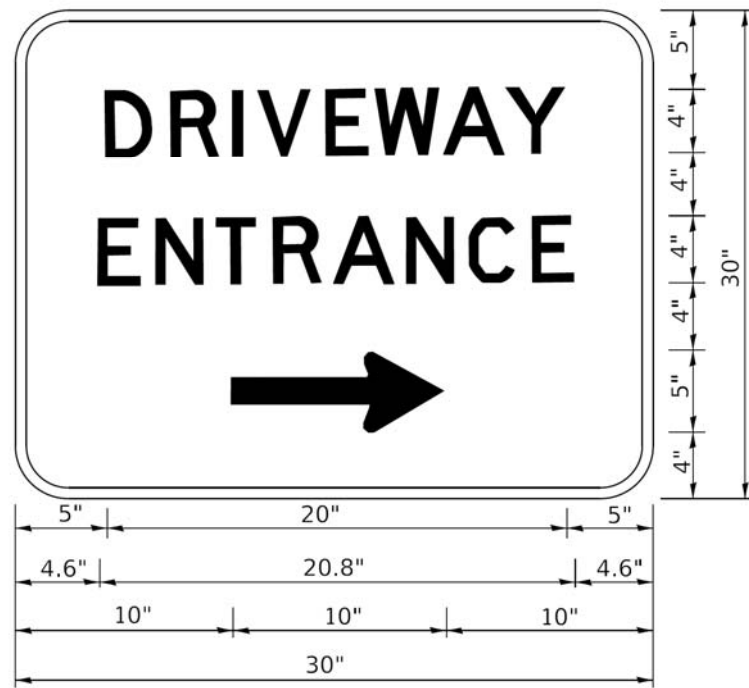
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PLOT DATE = 3/4/2019	DATE -	REVISED - C. JUCIUS 01-31-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ARTERIAL ROAD
INFORMATION SIGN**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2419	98-00026-02-WR	LAKE	210	189
TC-22			CONTRACT NO. 61115	
ILLINOIS FED. AID PROJECT				



3.0" RADIUS, 0.5" BORDER, WHITE ON GREEN; REFLECTORIZED
 "DRIVEWAY" D; "ENTRANCE" D; STANDARD ARROW CUSTOM 12.0" x 5.0"

NOTES:

1. HALF OF THE SIGNS WILL REQUIRE A LEFT HAND FACING ARROW.
2. TWO SIGNS SHALL BE USED AT EACH COMMERCIAL ENTRANCE PLACED BACK-TO-BACK: ONE WITH A RIGHT HAND ARROW (SHOWN) SHALL BE PLACED ON THE NEAR RIGHT SIDE THE DRIVEWAY AND ONE WITH A LEFT HAND ARROW SHALL BE PLACED ON THE FAR LEFT SIDE OF THE DRIVEWAY.
3. SIGNS TO BE PAID FOR AS ITEM "TEMPORARY INFORMATION SIGNING".

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	DRAWN -	REVISED -
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PLOT DATE = 8/6/2021	DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

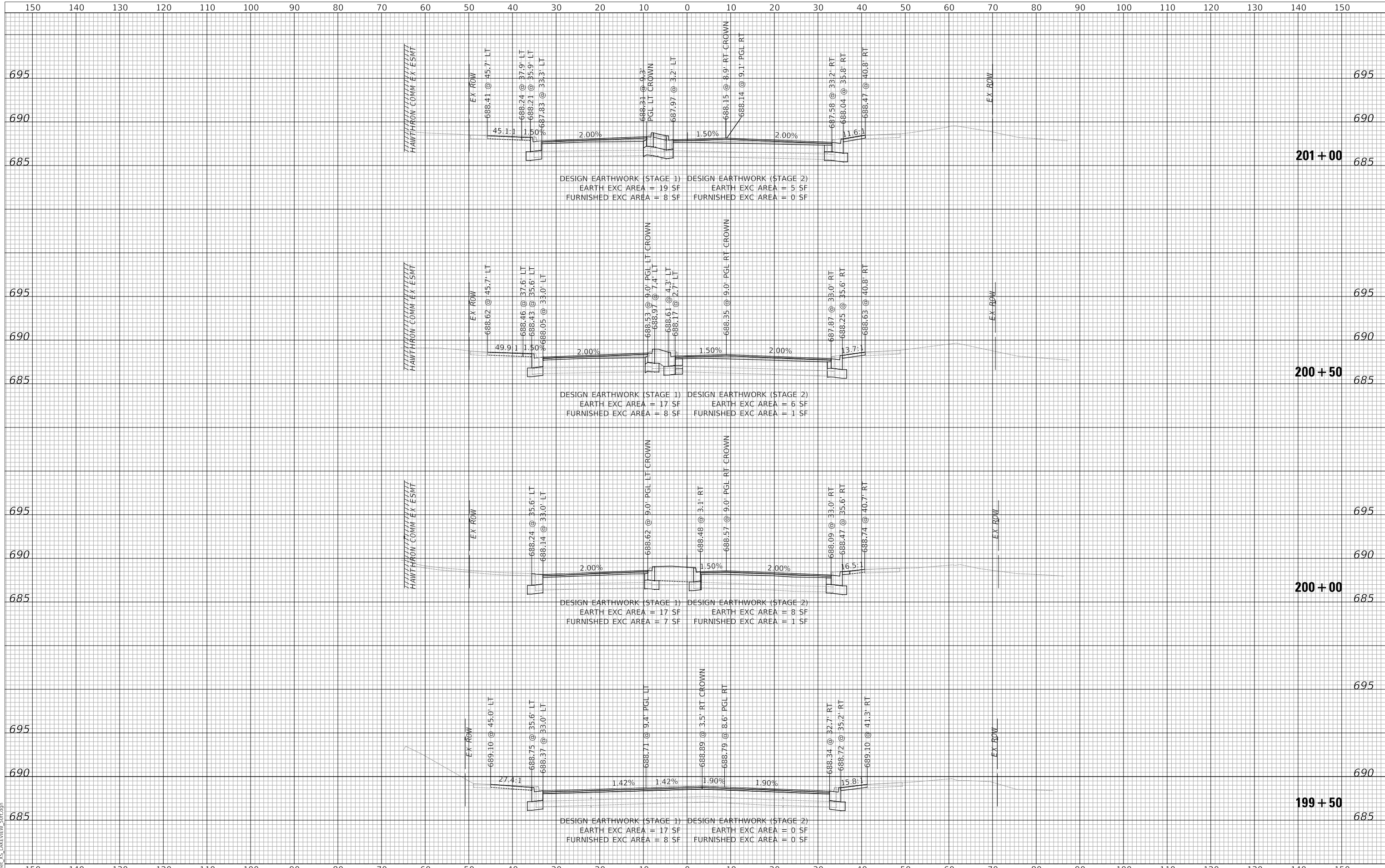
DRIVEWAY ENTRANCE SIGNING

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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TC-26			CONTRACT NO. 61115	
ILLINOIS FED. AID PROJECT				

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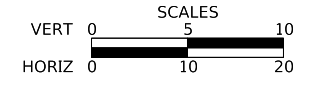
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Two Pierce Place, Suite 1400
Itasca, Illinois 60143
Tel: 630.773.3900 Fax: 630.773.3975
www.civiltechinc.com

DESIGNED	-	JRR	REVISED	-
DRAWN	-	JRR	REVISED	-
CHECKED	-	KRK	REVISED	-
DATE	-	11/02/2022	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



LAKEVIEW PARKWAY IMPROVEMENT
CROSS SECTIONS - LAKEVIEW PARKWAY

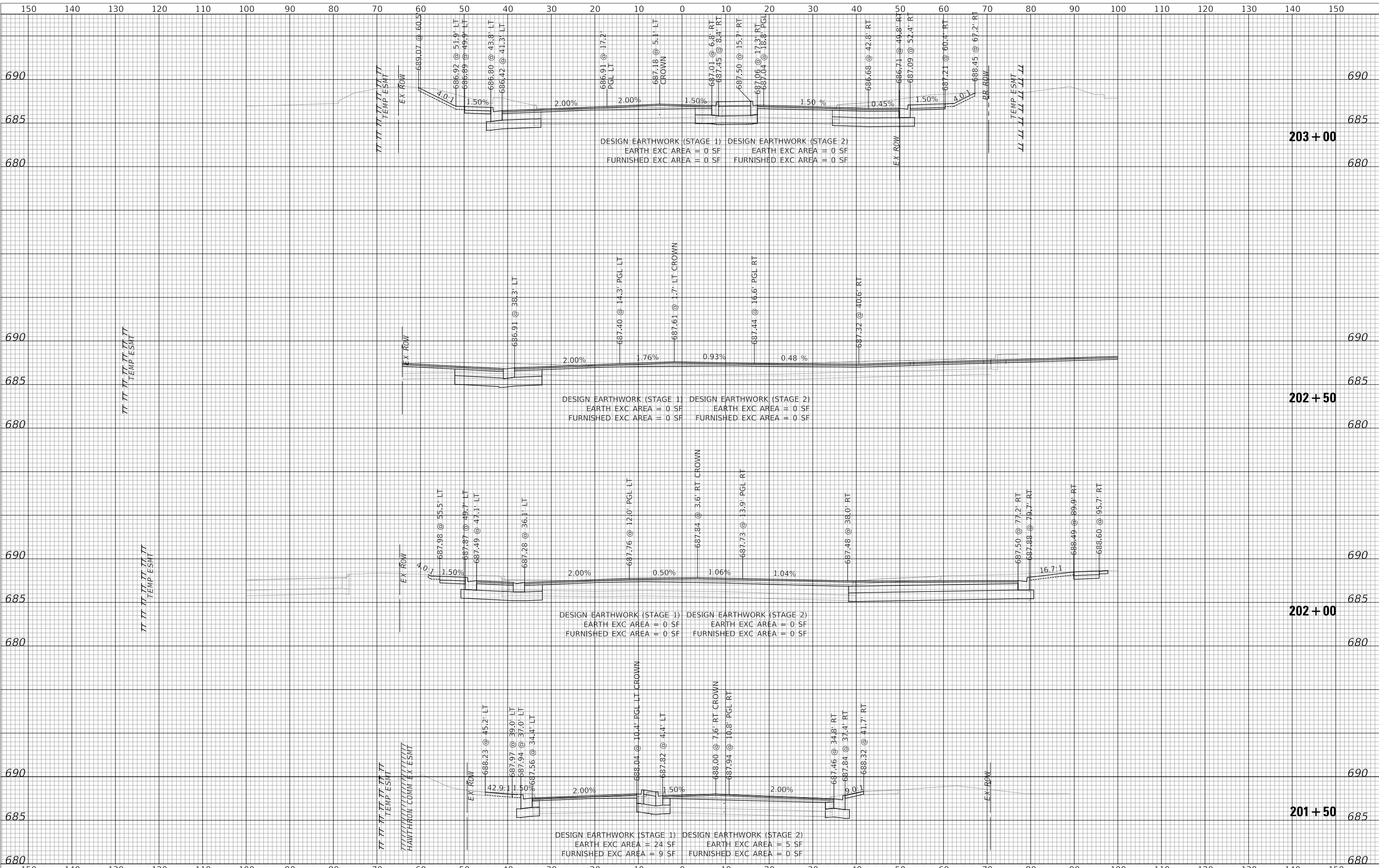
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FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
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CONTRACT NO 61115				
ILLINOIS FED AID PROJECT				

PLAN	SURVEYED	DATE
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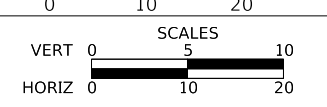
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CIVILTECH
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DATE	-	11/02/2022	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



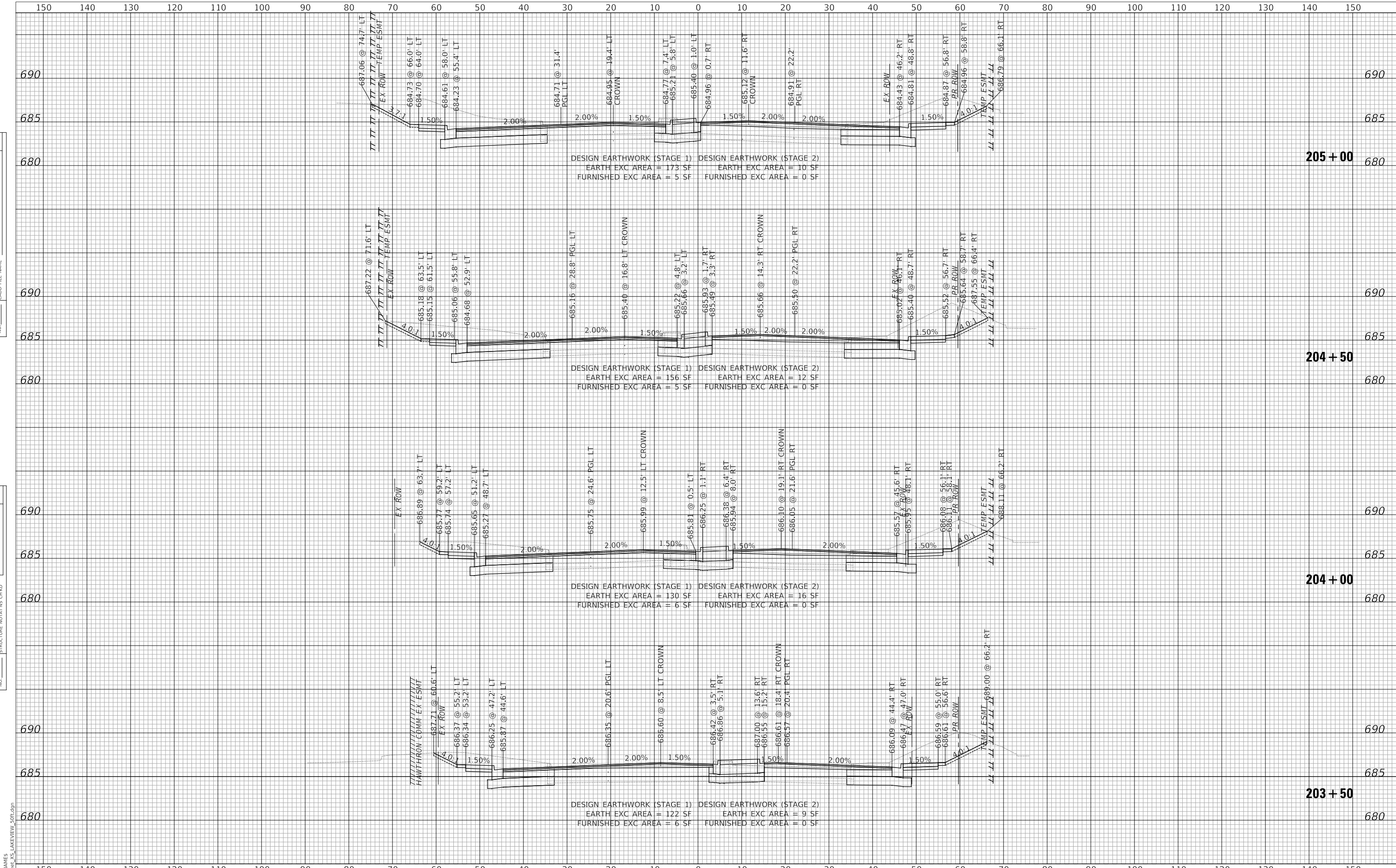
LAKEVIEW PARKWAY IMPROVEMENT
CROSS SECTIONS - LAKEVIEW PARKWAY

SHEET 2 OF 8 SHEETS STA 201+50 TO STA 203+00

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
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CONTRACT NO 61115				
ILLINOIS		FED AID PROJECT		

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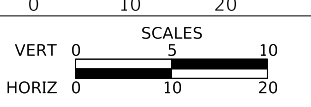


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Itasca, Illinois 60143
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DRAWN	-	JRR	REVISED	-
CHECKED	-	KRK	REVISED	-
DATE	-	11/02/2022	REVISED	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**



**LAKEVIEW PARKWAY IMPROVEMENT
CROSS SECTIONS - LAKEVIEW PARKWAY**

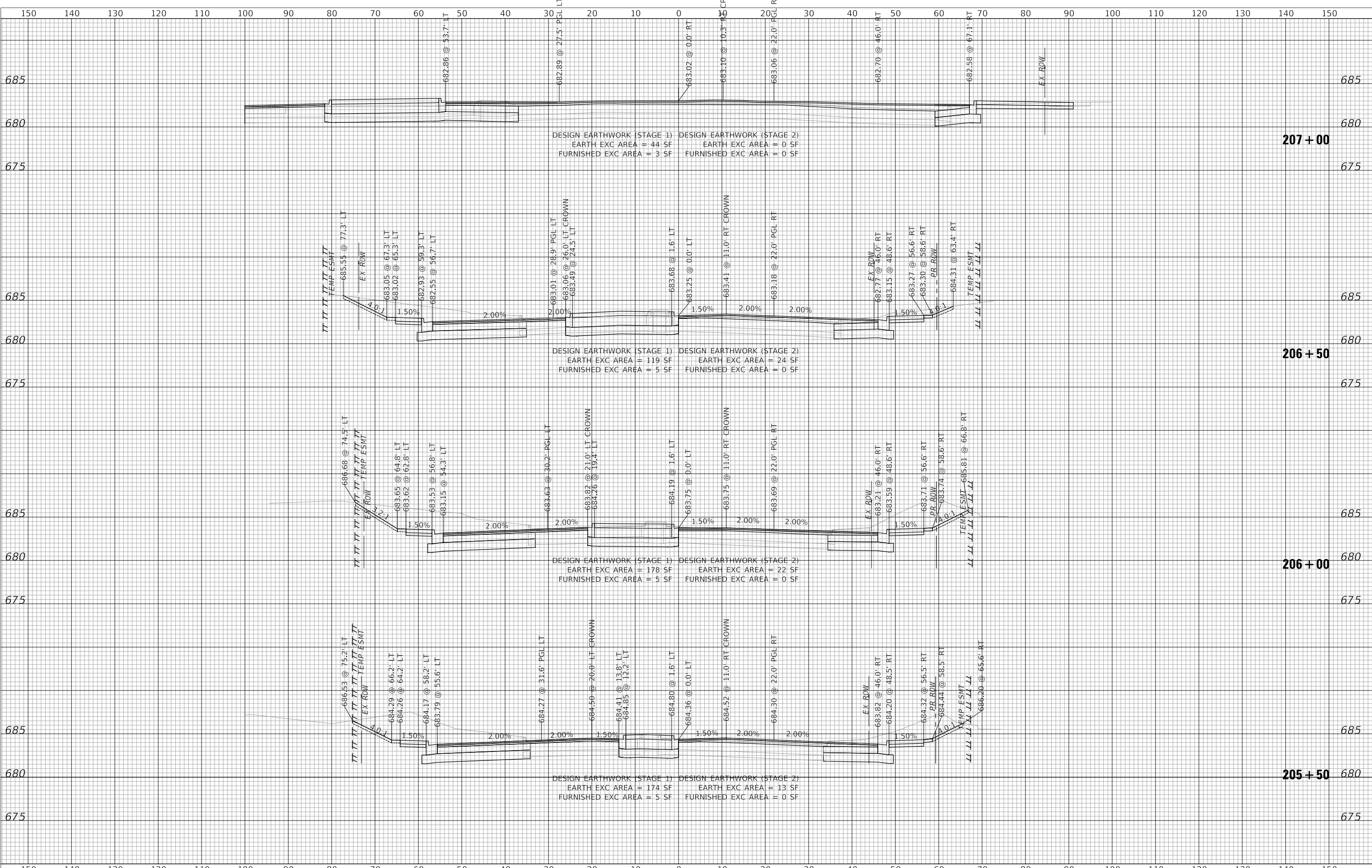
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CONTRACT NO 61115				
ILLINOIS FED AID PROJECT				

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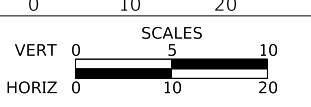
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CHECKED	-	KRK	REVISED	-
DATE	-	11/02/2022	REVISED	-

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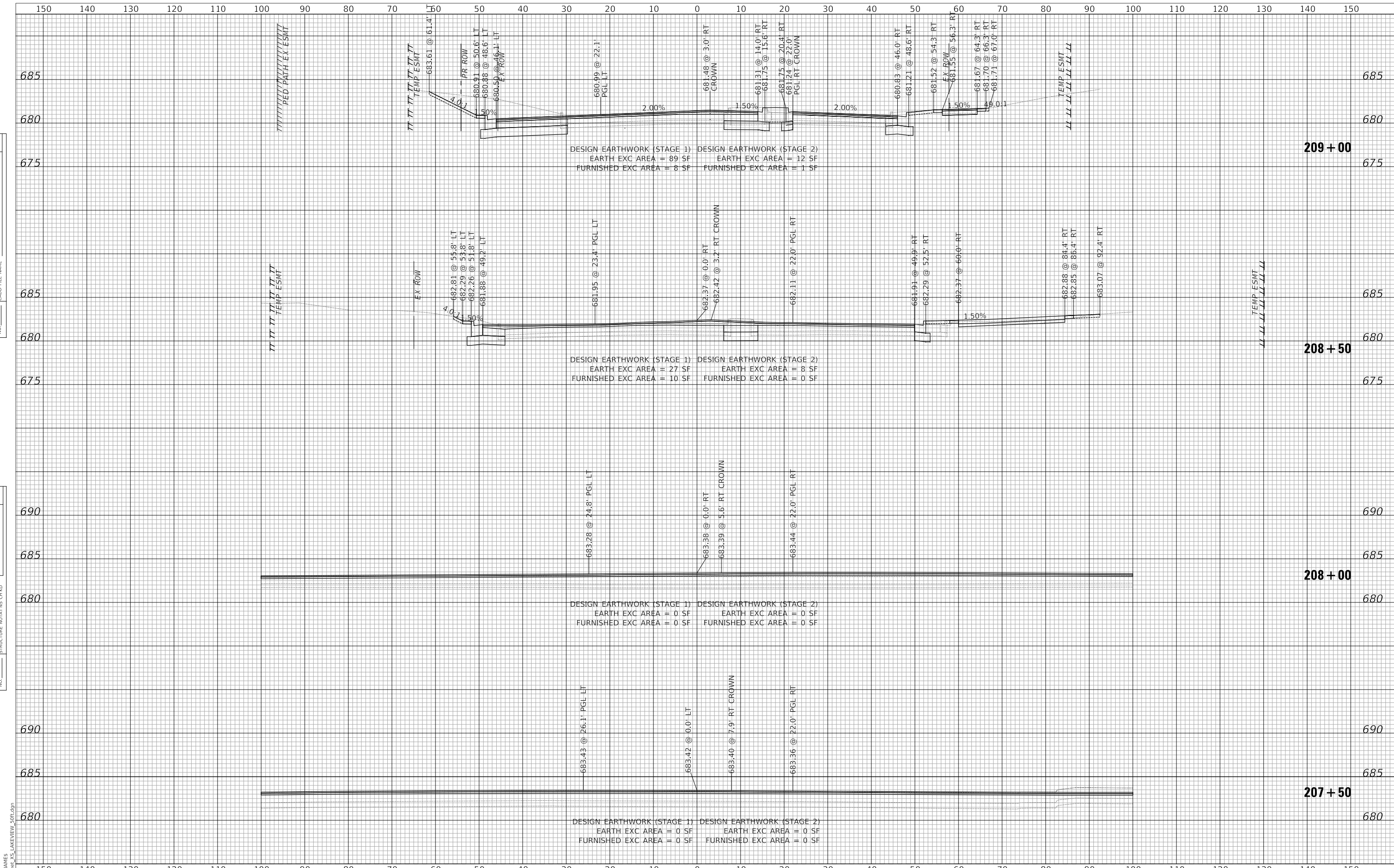
LAKEVIEW PARKWAY IMPROVEMENT
CROSS SECTIONS - LAKEVIEW PARKWAY

SHEET 4 OF 8 SHEETS STA 205+50 TO STA 206+50

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
2419	98-00026-02-WR	LAKE	210	194
CONTRACT NO 61115				
ILLINOIS FED AID PROJECT				

PLAN	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	ALIGNMENT CHECKED	
	STRUCTURE NOTATION CHECKED	
	NOTE BOOK NO.	
	CADD FILE NAME	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
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	CADD FILE NAME	

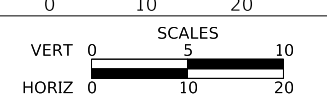


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LAKEVIEW PARKWAY IMPROVEMENT
CROSS SECTIONS - LAKEVIEW PARKWAY

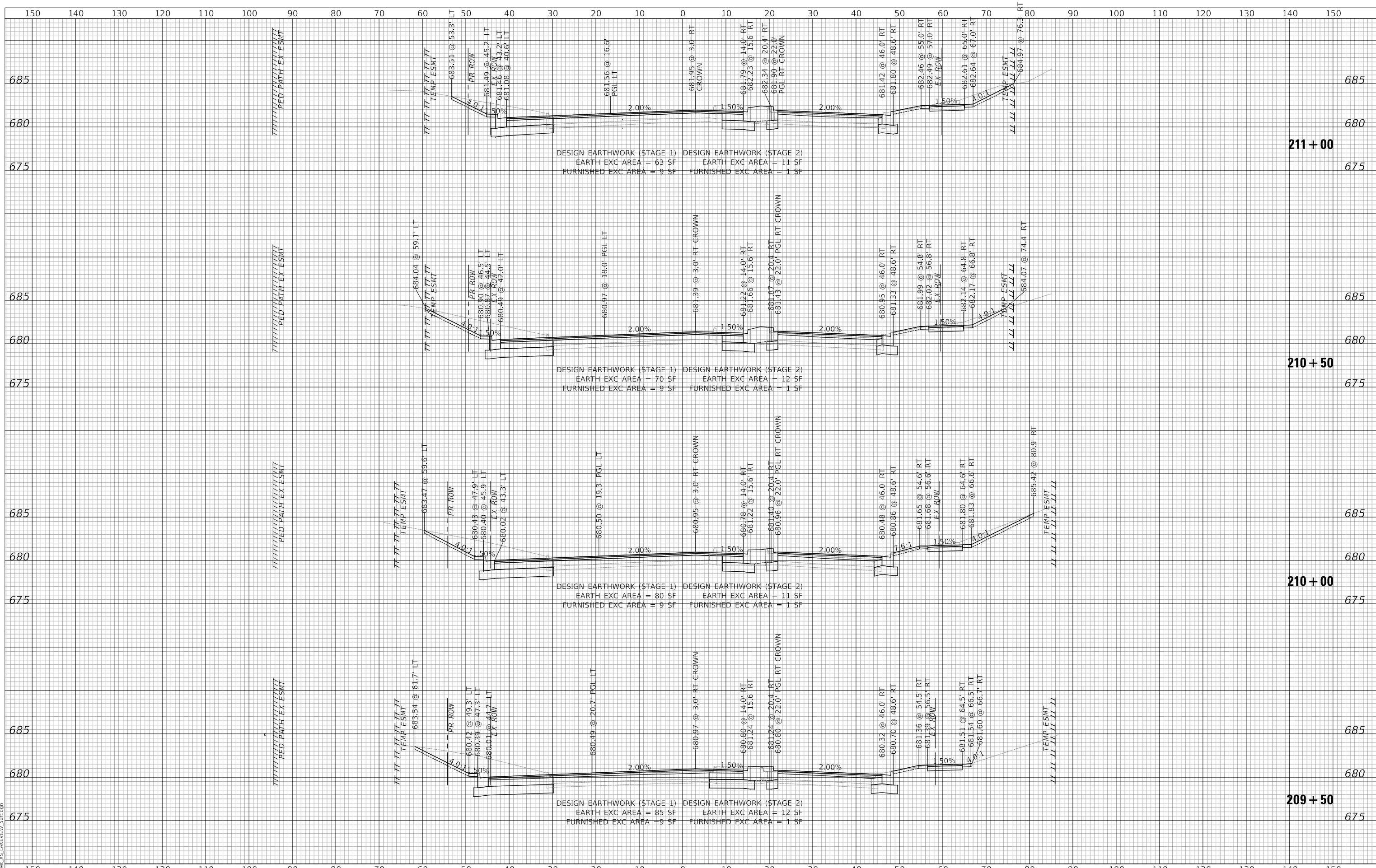
FAU RTE 2419 SECTION 98-00026-02-WR COUNTY LAKE SHEETS 210 SHEET NO 195 CONTRACT NO 61115

SHEET 5 OF 8 SHEETS STA 207+00 TO STA 208+50

ILLINOIS	FED AID PROJECT
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PLAN	SURVEYED	DATE
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PROFILE	SURVEYED	DATE
	PLOTTED	BY
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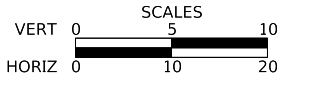
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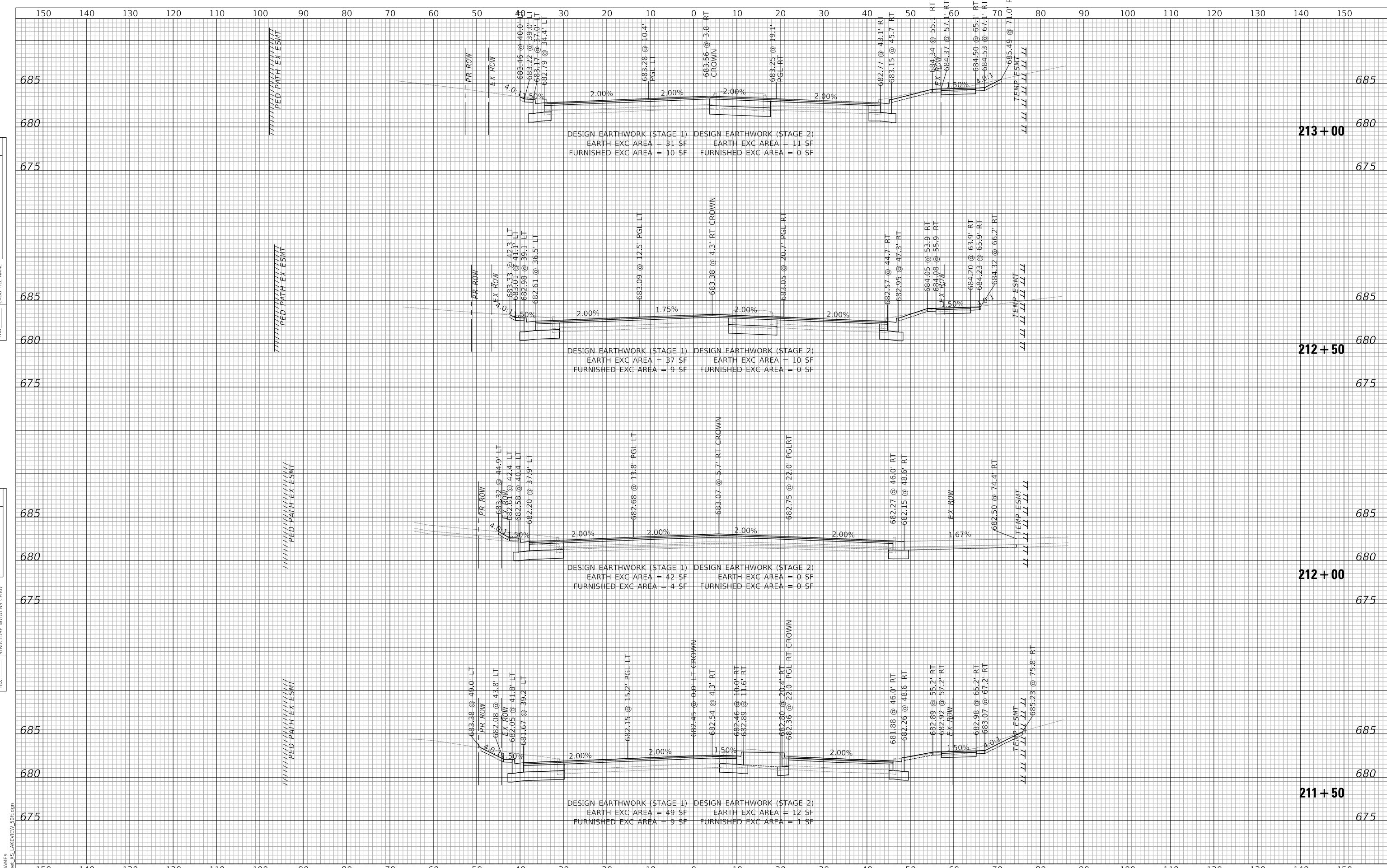
LAKEVIEW PARKWAY IMPROVEMENT
CROSS SECTIONS - LAKEVIEW PARKWAY

SHEET 6 OF 8 SHEETS STA 209+00 TO STA 210+50

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
2419	98-00026-02-WR	LAKE	210	196
CONTRACT NO 61115				
ILLINOIS FED AID PROJECT				

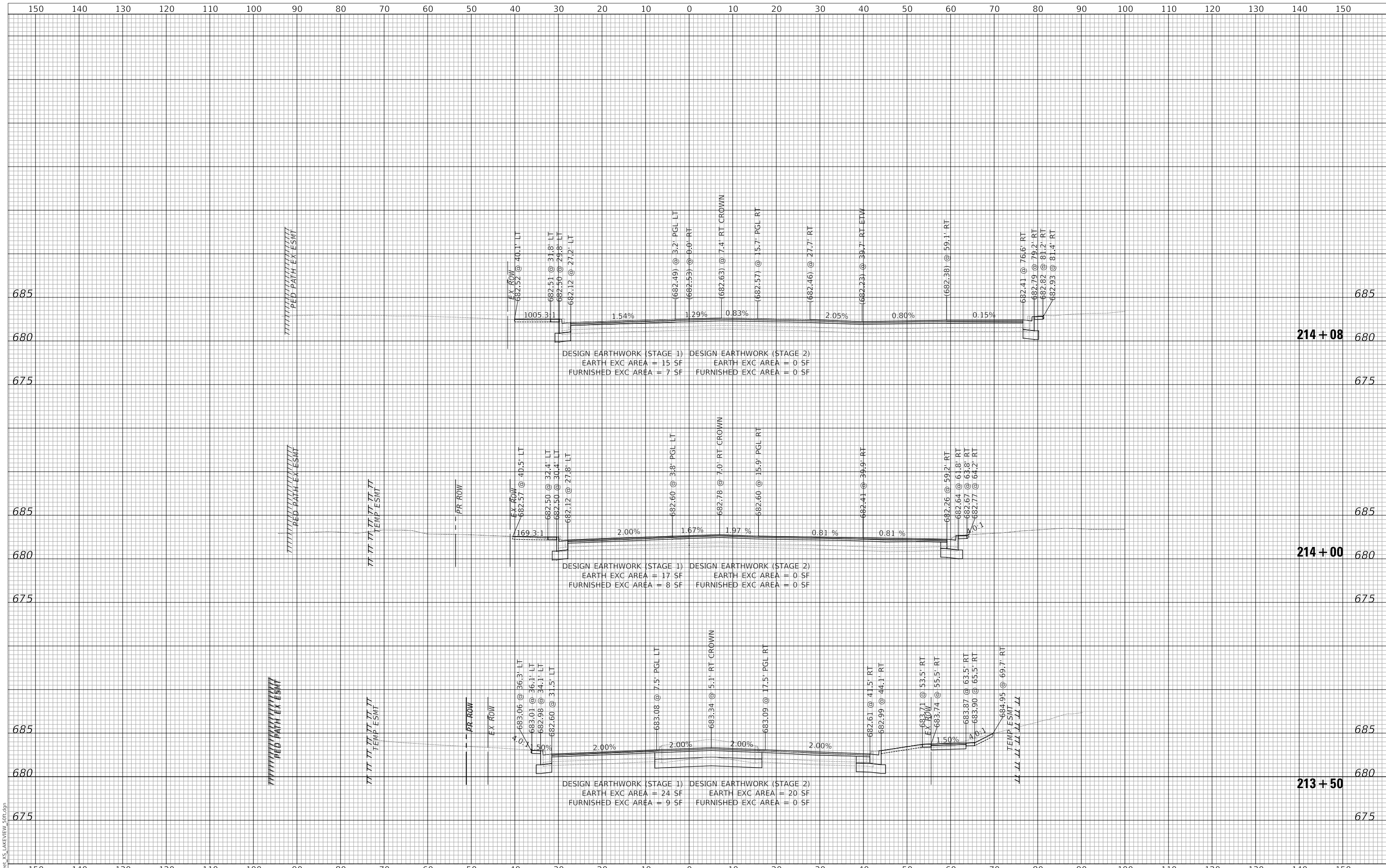
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	ALIGNMENT CHECKED	
	ROAD FILE NAME	
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PROFILE	SURVEYED	DATE
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	STRUCTURE NOTATIONS CHECKED	
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	STRUCTURE NOTATIONS CHECKED	
	NOTE BOOK NO.	
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	NOTE BOOK NO.	
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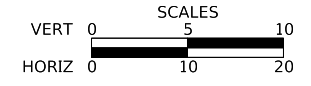
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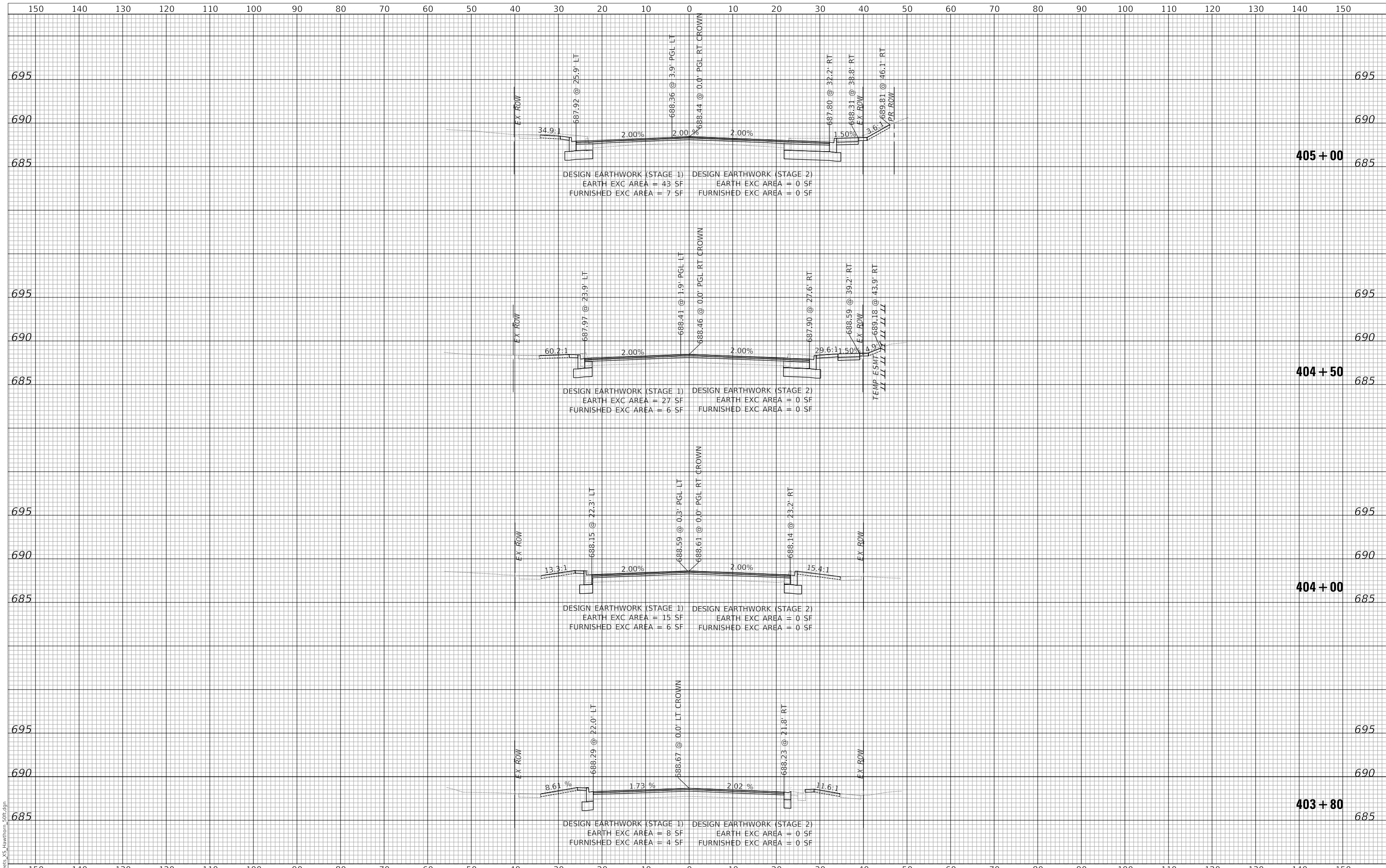
**LAKEVIEW PARKWAY IMPROVEMENT
CROSS SECTIONS - LAKEVIEW PARKWAY**

SHEET 8 OF 8 SHEETS STA 213+00 TO STA 214+08

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
2419	98-00026-02-WR	LAKE	210	198
CONTRACT NO 61115				
ILLINOIS FED AID PROJECT				

PLAN	SURVEYED	DATE
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PROFILE	SURVEYED	DATE
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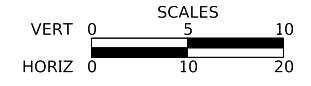
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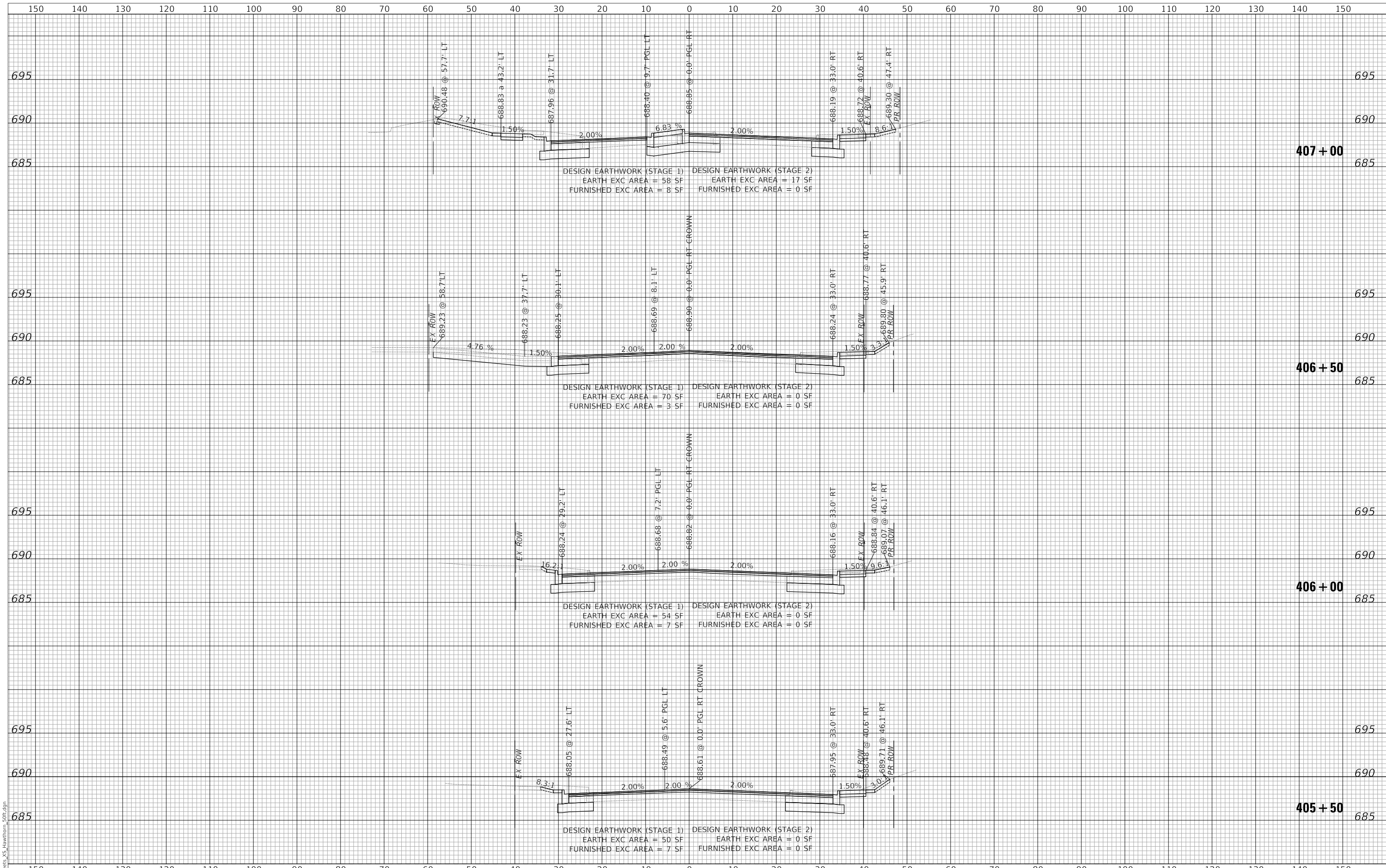
LAKEVIEW PARKWAY IMPROVEMENT
CROSS SECTIONS - HAWTHORN PARKWAY

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
2419	98-00026-02-WR	LAKE	210	199
CONTRACT NO 61115				
ILLINOIS FED AID PROJECT				

SHEET 1 OF 4 SHEETS STA 403+80 TO STA 405+00

PLAN	SURVEYED	DATE
	PLOTTED	BY
	ALIGNMENT CHECKED	
	GRADE CHECKED	
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PROFILE	SURVEYED	DATE
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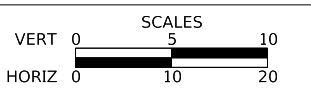
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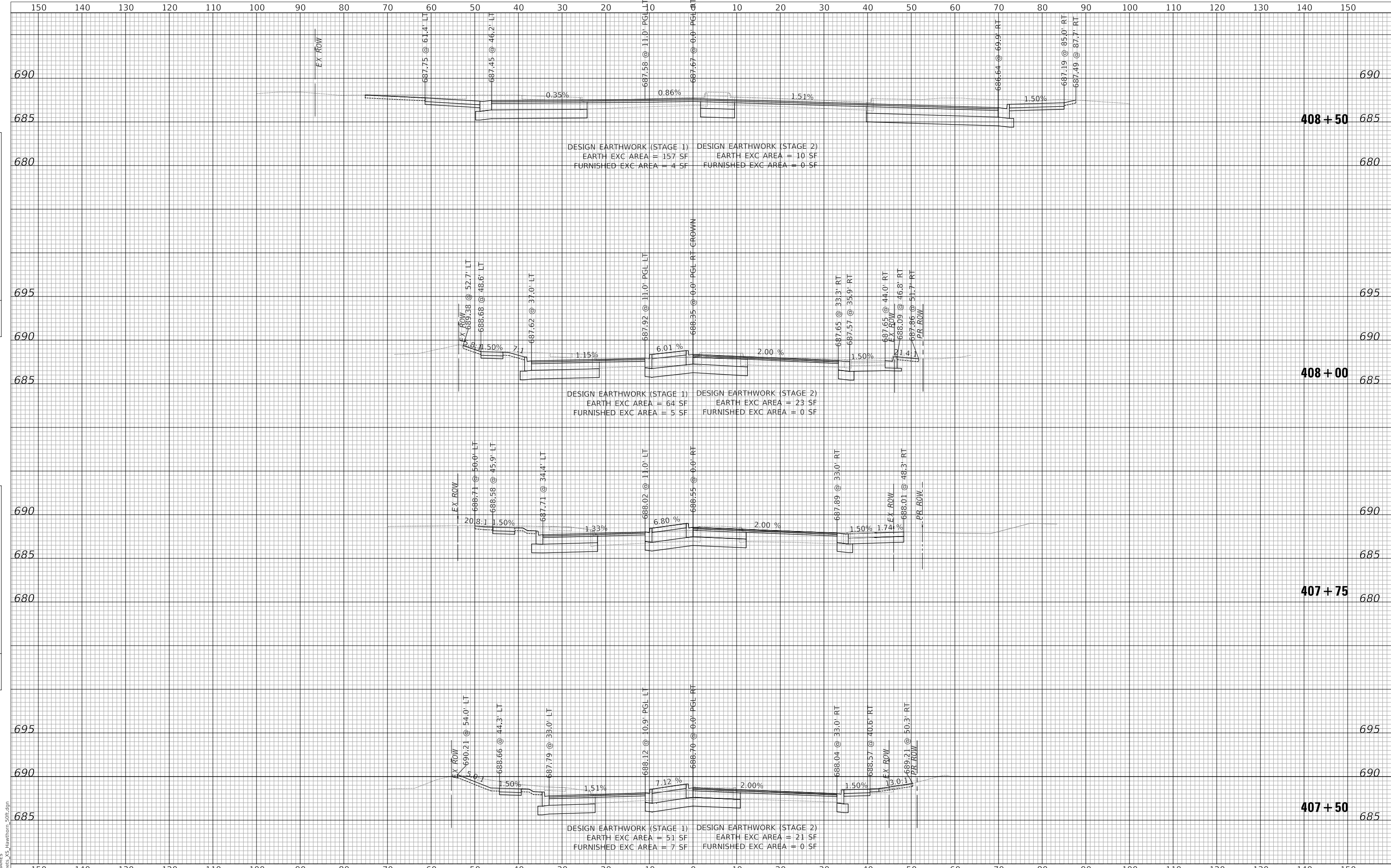
LAKEVIEW PARKWAY IMPROVEMENT
CROSS SECTIONS - HAWTHORN PARKWAY

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
2419	98-00026-02-WR	LAKE	210	200
CONTRACT NO 61115				
ILLINOIS FED AID PROJECT				

SHEET 2 OF 4 SHEETS STA 405+50 TO STA 407+00

PLAN	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	ALIGNMENT CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NOTE BOOK NO.	
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PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
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	STRUCTURE NOTATIONS CHECKED	
	NOTE BOOK NO.	
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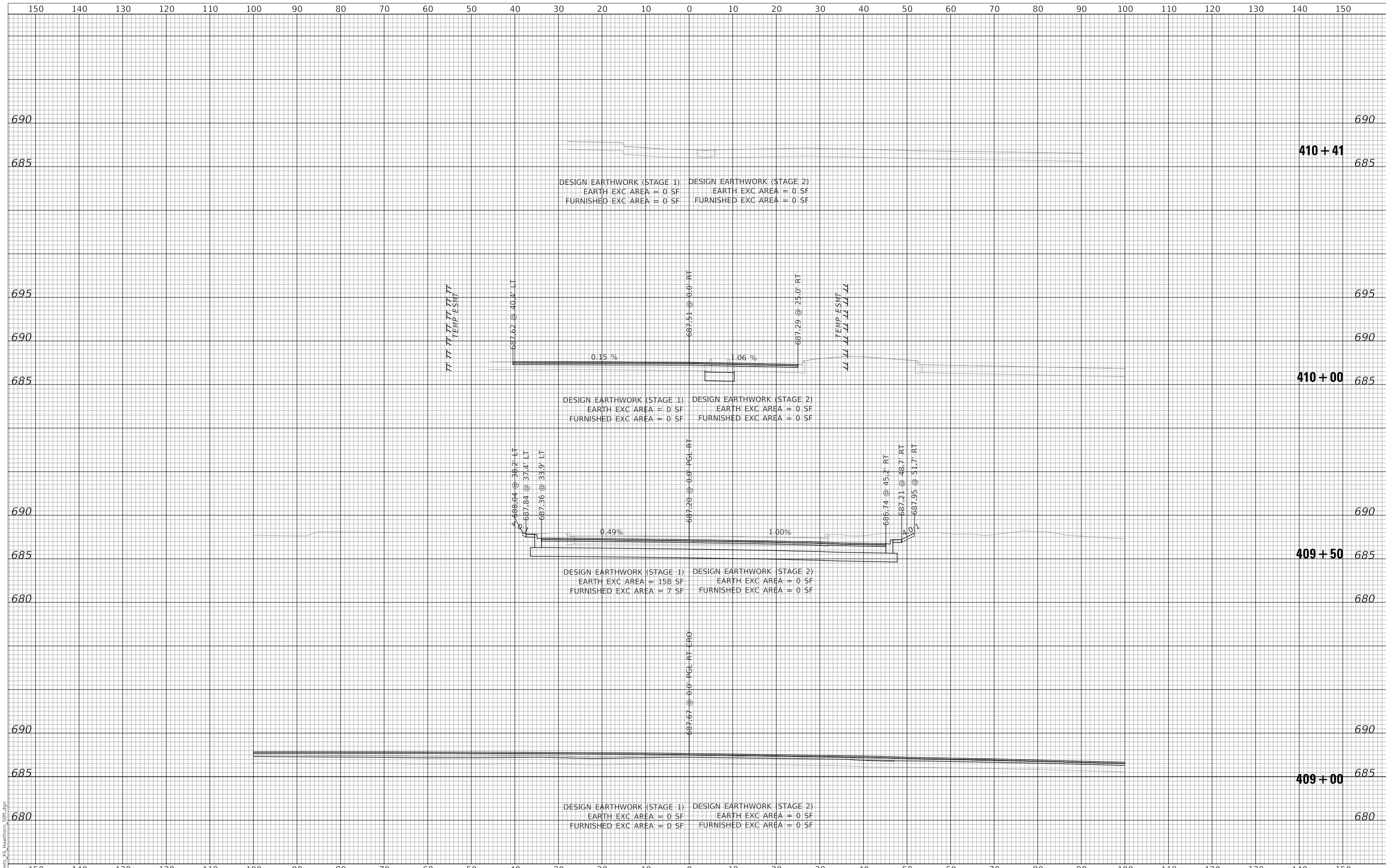


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	SHEET 3 OF 4 SHEETS STA 407+50 TO STA 409+50		ILLINOIS FED AID PROJECT					

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STRUCTURE NOTATIONS CHECKED		



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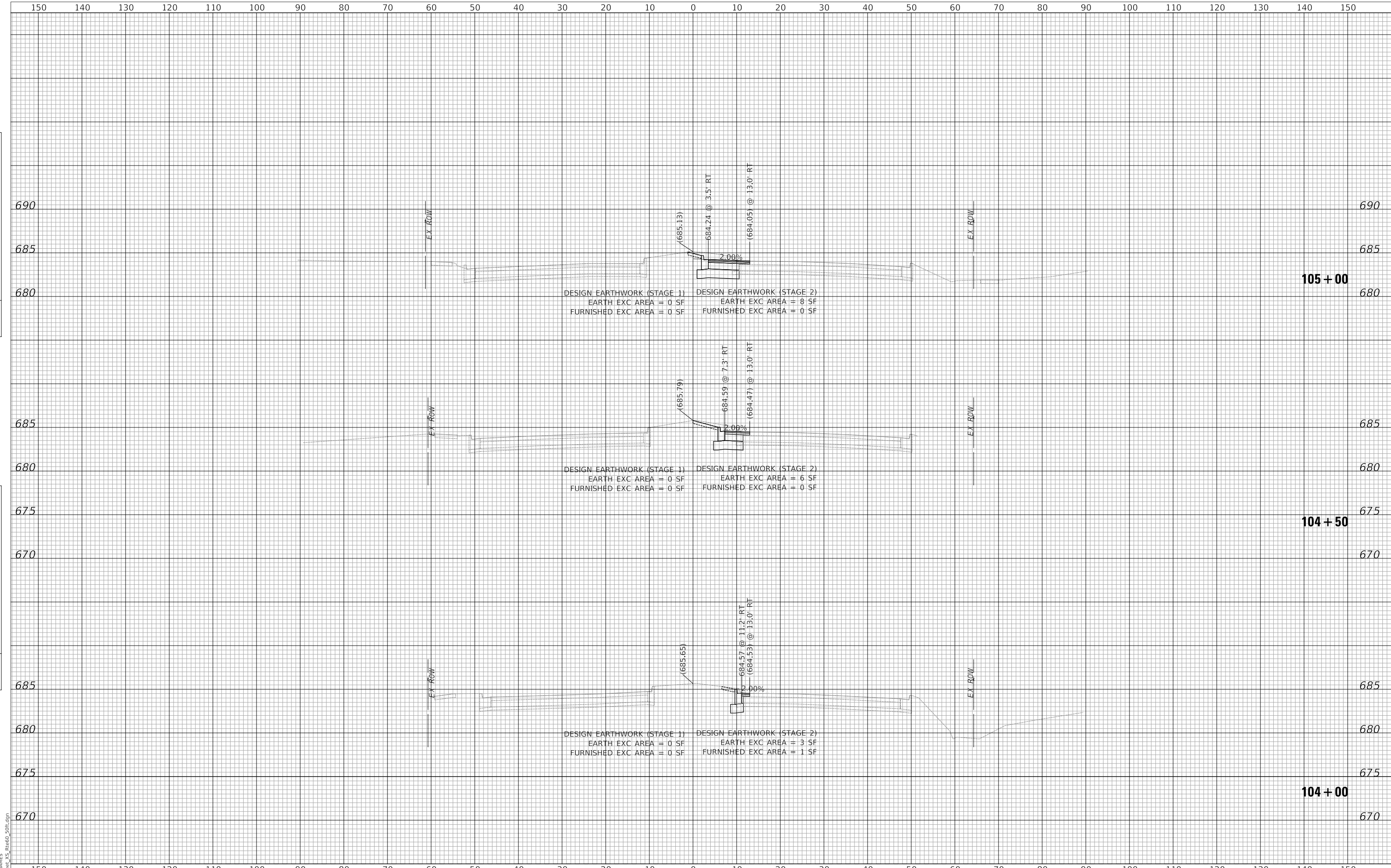
LAKEVIEW PARKWAY IMPROVEMENT
CROSS SECTIONS - HAWTHORN PARKWAY

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
2419	98-00026-02-WR	LAKE	210	202
CONTRACT NO 61115				
ILLINOIS FED AID PROJECT				

SHEET 4 OF 4 SHEETS STA 410+00 TO STA 410+41

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	ALIGNMENT CHECKED		
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PROFILE	SURVEYED	BY	DATE
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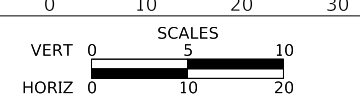


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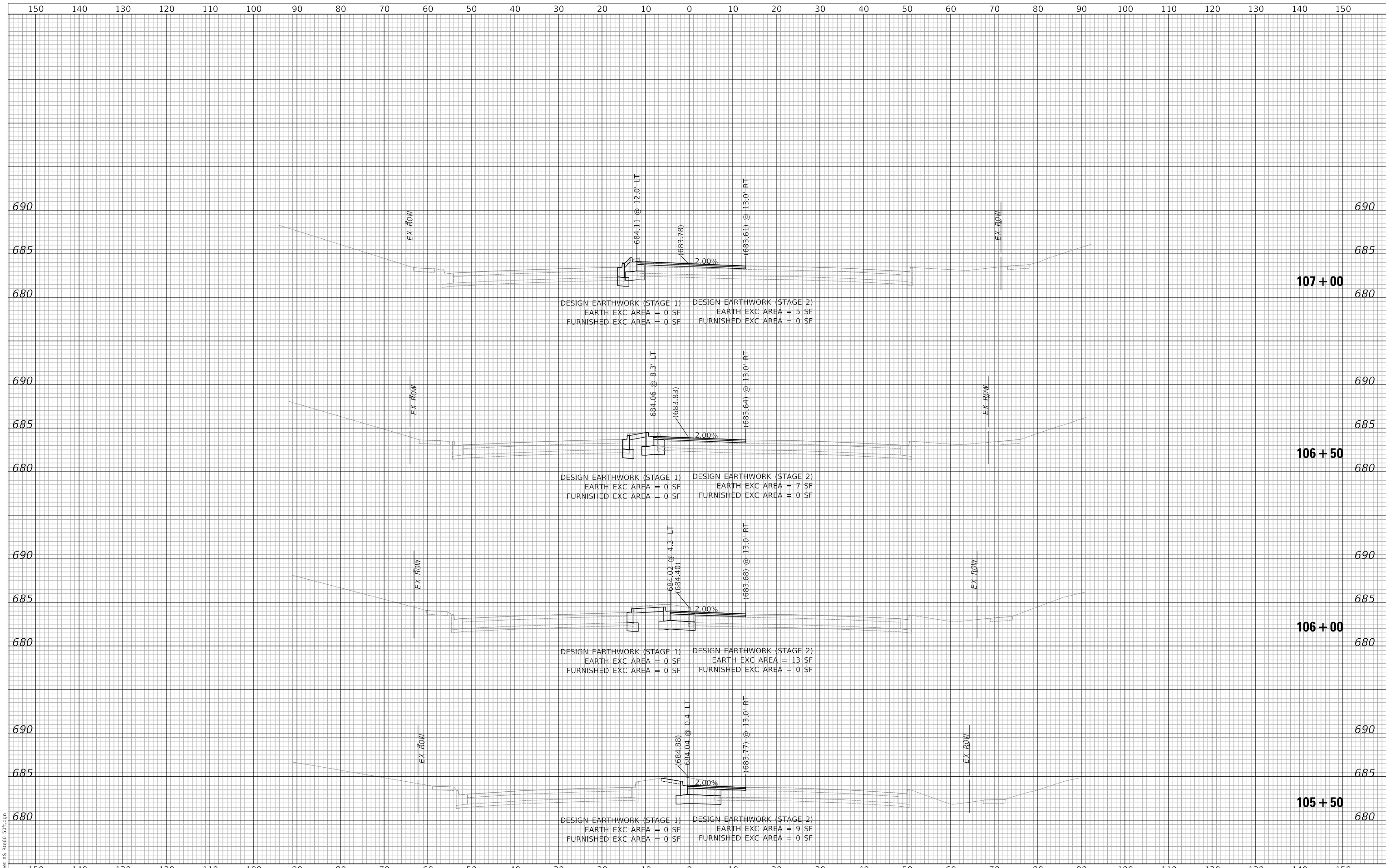
**LAKEVIEW PARKWAY IMPROVEMENT
CROSS SECTIONS - ROUTE 60 (TOWNLIN ROAD)**

SHEET 1 OF 8 SHEETS STA 104+00 TO STA 105+00

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
2419	98-00026-02-WR	LAKE	210	203
CONTRACT NO 61115				
ILLINOIS FED AID PROJECT				

PLAN	SURVEYED	DATE
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PROFILE	SURVEYED	DATE
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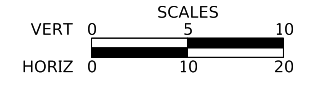
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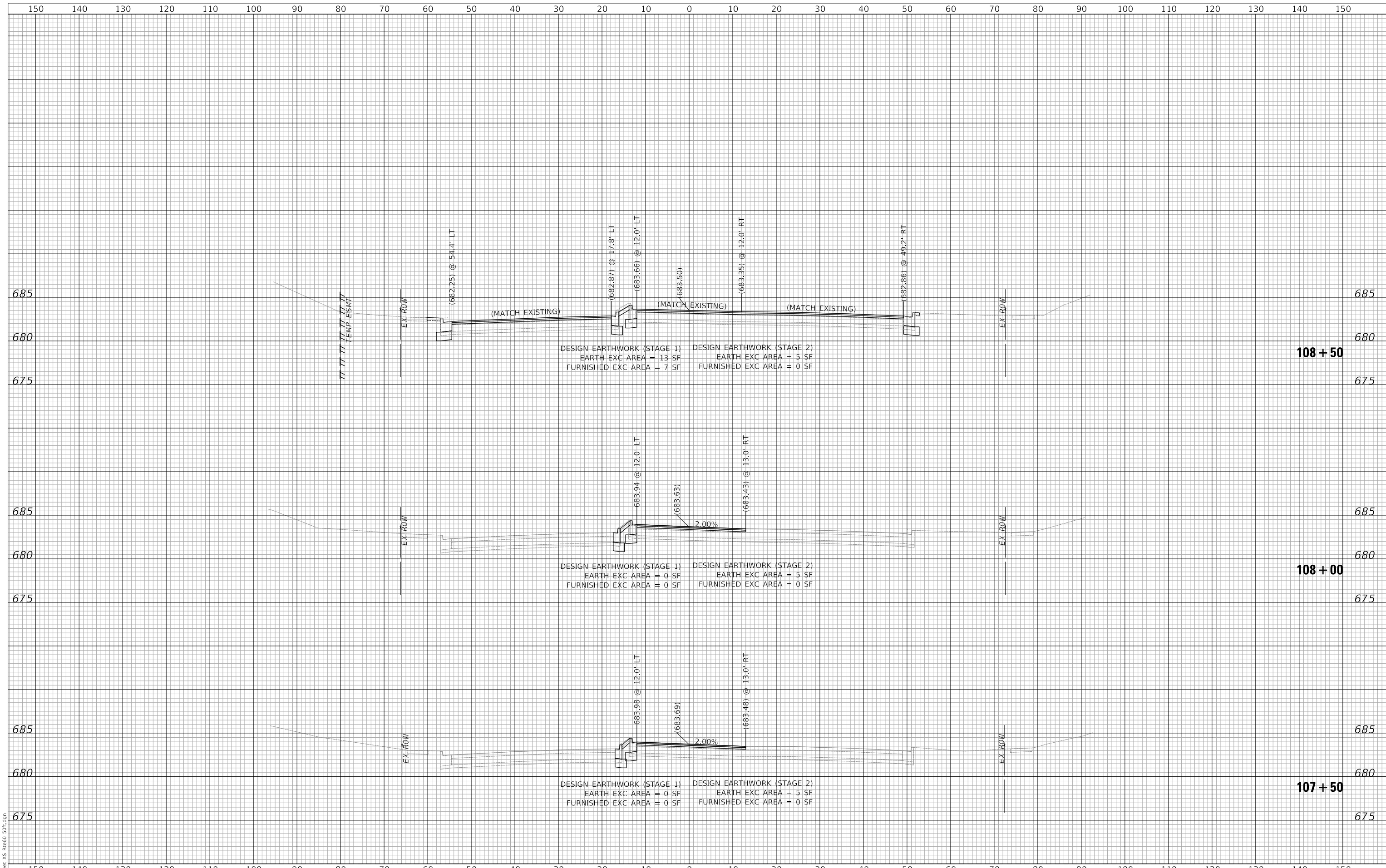
LAKEVIEW PARKWAY IMPROVEMENT
 CROSS SECTIONS - ROUTE 60 (TOWNLINE ROAD)

SHEET 2 OF 8 SHEETS STA 105+50 TO STA 107+00

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
2419	98-00026-02-WR	LAKE	210	204
CONTRACT NO 61115				
ILLINOIS FED AID PROJECT				

PLAN	SURVEYED	DATE
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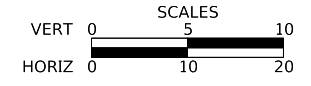
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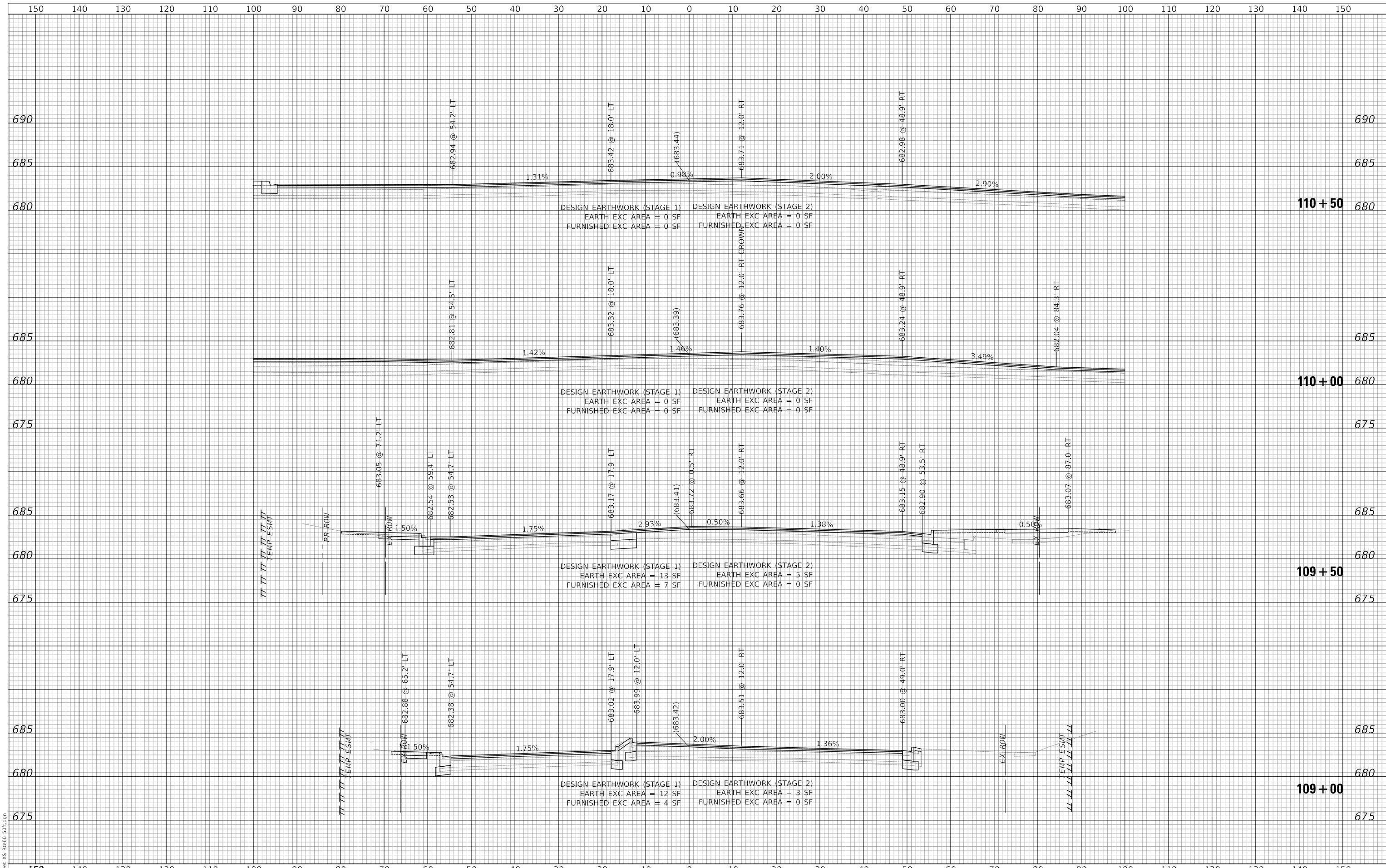
LAKEVIEW PARKWAY IMPROVEMENT
 CROSS SECTIONS - ROUTE 60 (TOWNLIN ROAD)

SHEET 3 OF 8 SHEETS STA 107+50 TO STA 108+50

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
2419	98-00026-02-WR	LAKE	210	205
				CONTRACT NO 61115
				ILLINOIS FED AID PROJECT

PLAN	SURVEYED	DATE
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	ALIGNMENT CHECKED	
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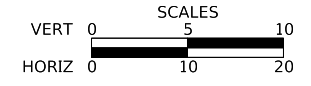
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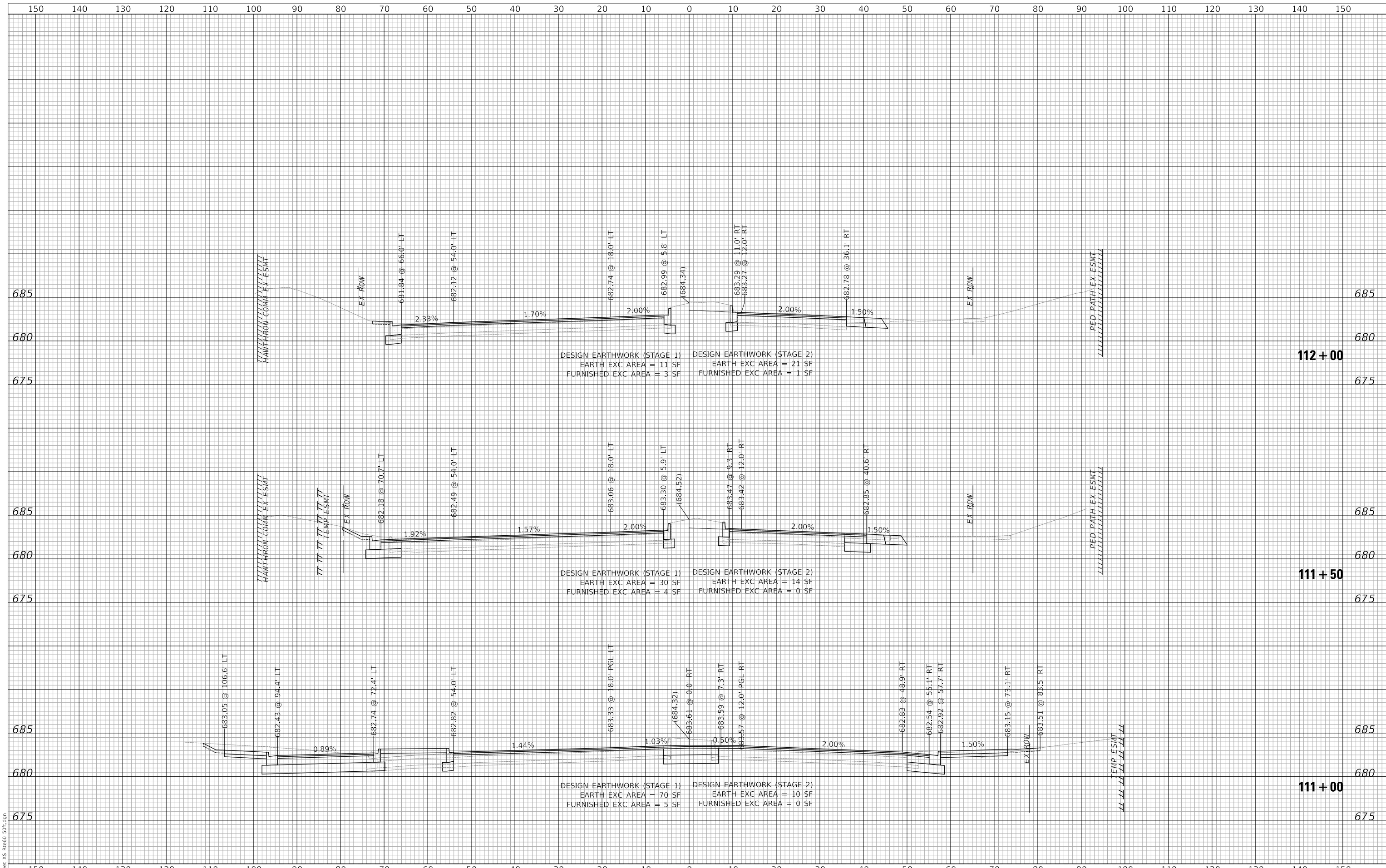
LAKEVIEW PARKWAY IMPROVEMENT
CROSS SECTIONS - ROUTE 60 (TOWNLIN ROAD)

SHEET 4 OF 8 SHEETS STA 109+00 TO STA 110+50

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
2419	98-00026-02-WR	LAKE	210	206
CONTRACT NO 61115				
ILLINOIS		FED AID PROJECT		

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PROFILE	SURVEYED	DATE
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	NOTE BOOK	
	NO. _____	
	STRUCTURE NOTATIONS CHECKED	



DESIGN EARTHWORK (STAGE 1)
EARTH EXC AREA = 11 SF
FURNISHED EXC AREA = 3 SF

DESIGN EARTHWORK (STAGE 2)
EARTH EXC AREA = 21 SF
FURNISHED EXC AREA = 1 SF

DESIGN EARTHWORK (STAGE 1)
EARTH EXC AREA = 30 SF
FURNISHED EXC AREA = 4 SF

DESIGN EARTHWORK (STAGE 2)
EARTH EXC AREA = 14 SF
FURNISHED EXC AREA = 0 SF

DESIGN EARTHWORK (STAGE 1)
EARTH EXC AREA = 70 SF
FURNISHED EXC AREA = 5 SF

DESIGN EARTHWORK (STAGE 2)
EARTH EXC AREA = 10 SF
FURNISHED EXC AREA = 0 SF

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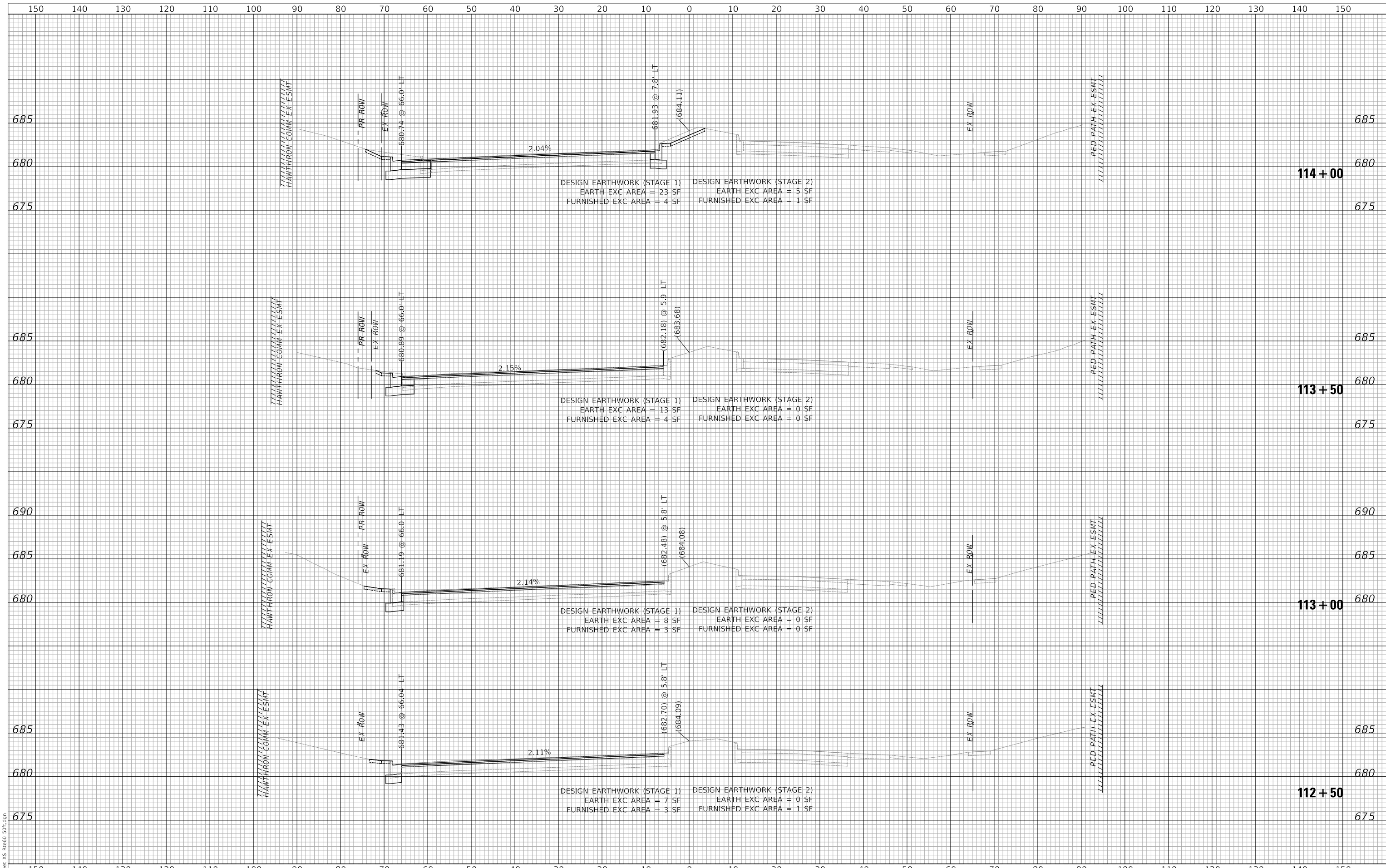
**LAKEVIEW PARKWAY IMPROVEMENT
CROSS SECTIONS - ROUTE 60 (TOWNLIN ROAD)**

SHEET 5 OF 8 SHEETS STA 111+00 TO STA 112+00

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
2419	98-00026-02-WR	LAKE	210	207
				CONTRACT NO 61115
				ILLINOIS FED AID PROJECT

PLAN	SURVEYED	DATE
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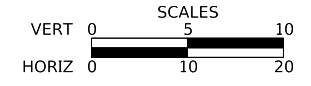
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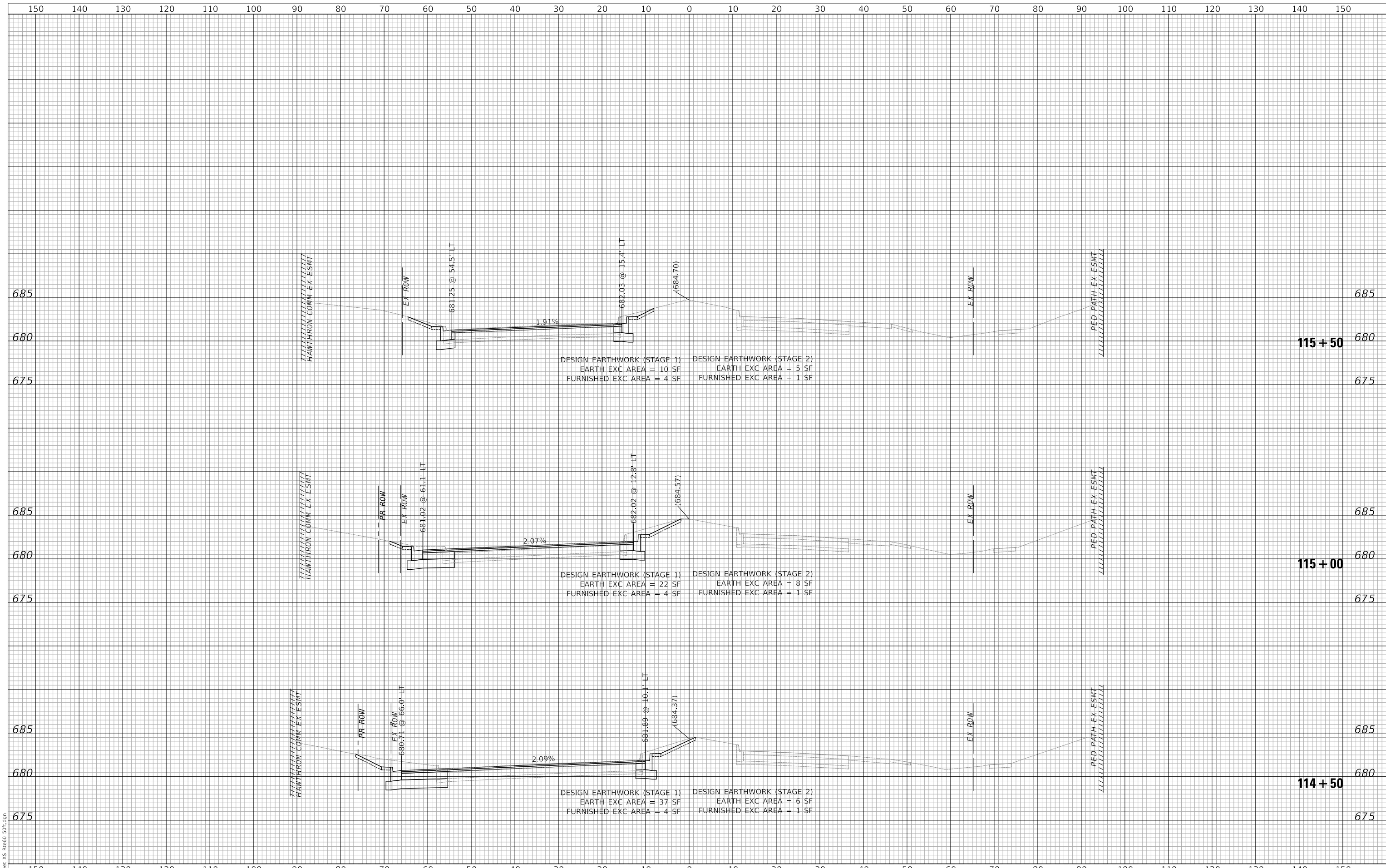
LAKEVIEW PARKWAY IMPROVEMENT
 CROSS SECTIONS - ROUTE 60 (TOWNLIN ROAD)

SHEET 6 OF 8 SHEETS STA 112+50 TO STA 114+00

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
2419	98-00026-02-WR	LAKE	210	208
CONTRACT NO 61115				
ILLINOIS FED AID PROJECT				

PLAN	SURVEYED	DATE
	PLOTTED	BY
	ALIGNMENT CHECKED	
	GRADE CHECKED	
	STRUCTURE NOTATION CHECKED	
	NOTE BOOK NO.	
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PROFILE	SURVEYED	DATE
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	STRUCTURE NOTATION CHECKED	



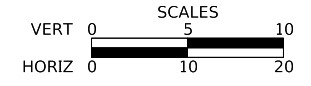
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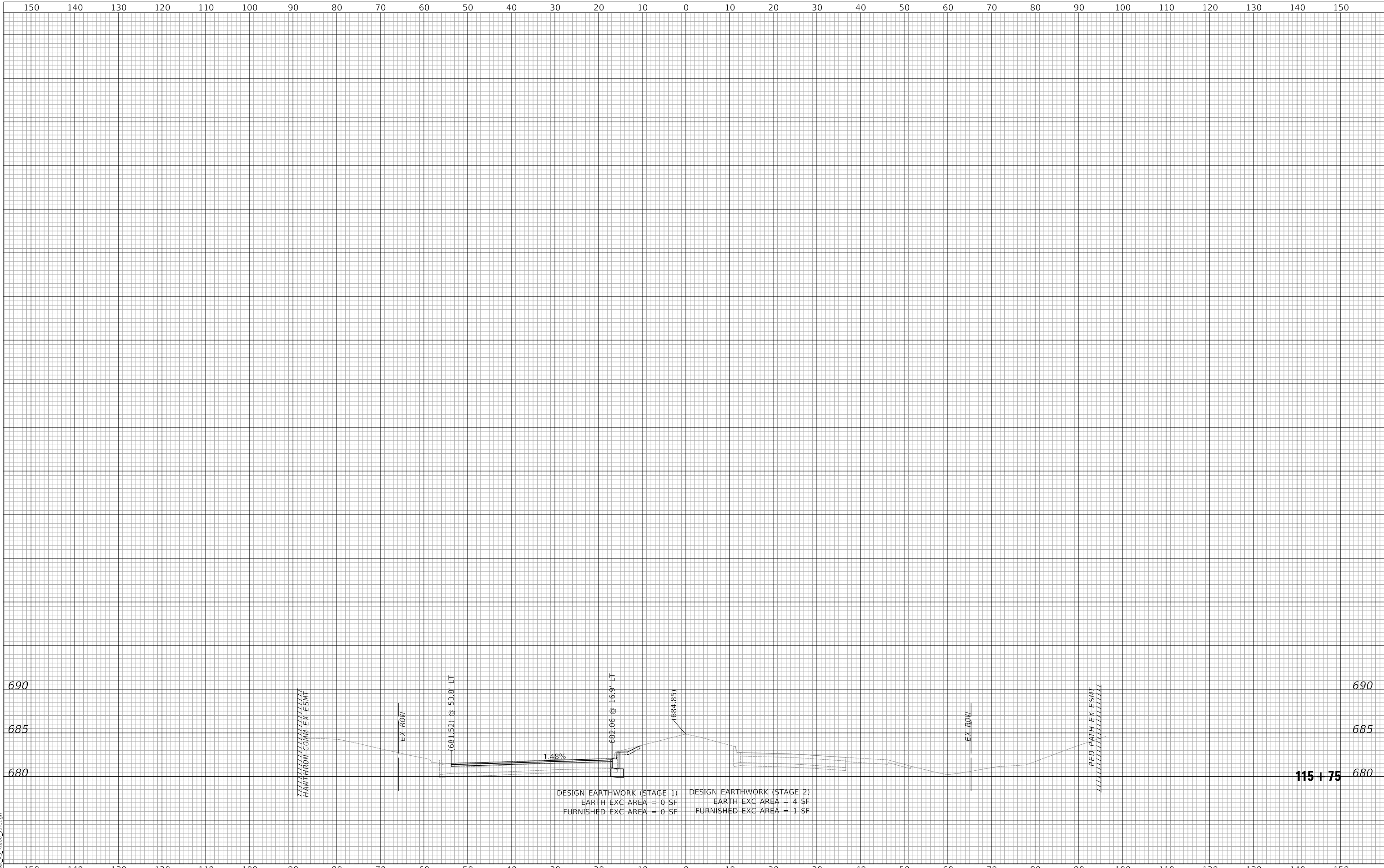
LAKEVIEW PARKWAY IMPROVEMENT
CROSS SECTIONS - ROUTE 60 (TOWNLIN ROAD)

SHEET 7 OF 8 SHEETS STA 114+50 TO STA 115+50

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
2419	98-00026-02-WR	LAKE	210	209
				CONTRACT NO 61115
				ILLINOIS FED AID PROJECT

PLAN	SURVEYED	BY	DATE
	GRADES CHECKED		
PROFILE	PLOTTED		
	STRUCTURE NOTATION		
NOTE BOOK NO.			

PROFILE	SURVEYED	BY	DATE
	GRADES CHECKED		
PLAN	PLOTTED		
	STRUCTURE NOTATION		
NOTE BOOK NO.			



DESIGN EARTHWORK (STAGE 1) DESIGN EARTHWORK (STAGE 2)
 EARTH EXC AREA = 0 SF EARTH EXC AREA = 4 SF
 FURNISHED EXC AREA = 0 SF FURNISHED EXC AREA = 1 SF

MODEL: SH06L1M4M5
 FILE NAME: ...:\shred_X5_Rte00_50ft.dgn



Two Pierce Place, Suite 1400
 Itasca, Illinois 60143
 Tel: 630.773.3900 Fax: 630.773.3975
 www.civiltechinc.com

DESIGNED -	JRR	REVISED -	
DRAWN -	JRR	REVISED -	
CHECKED -	KRK	REVISED -	
DATE -	11/02/2022	REVISED -	

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

VERT	0	5	10
HORIZ	0	10	20

LAKEVIEW PARKWAY IMPROVEMENT
 CROSS SECTIONS - ROUTE 60 (TOWNLIN ROAD)

SHEET 8 OF 8 SHEETS STA 115+75 TO STA 115+75

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
2419	98-00026-02-WR	LAKE	210	210
CONTRACT NO 61115				
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