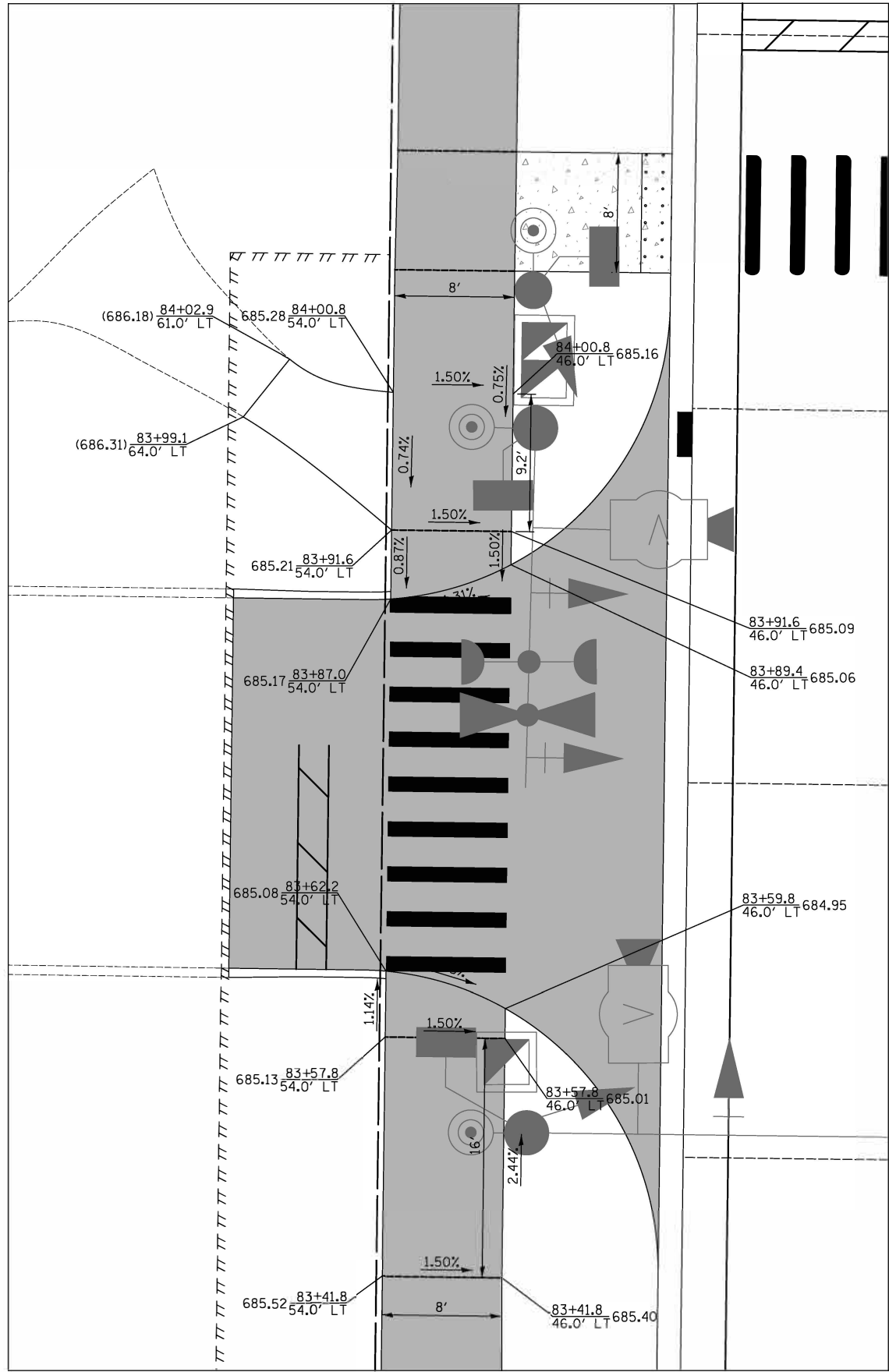
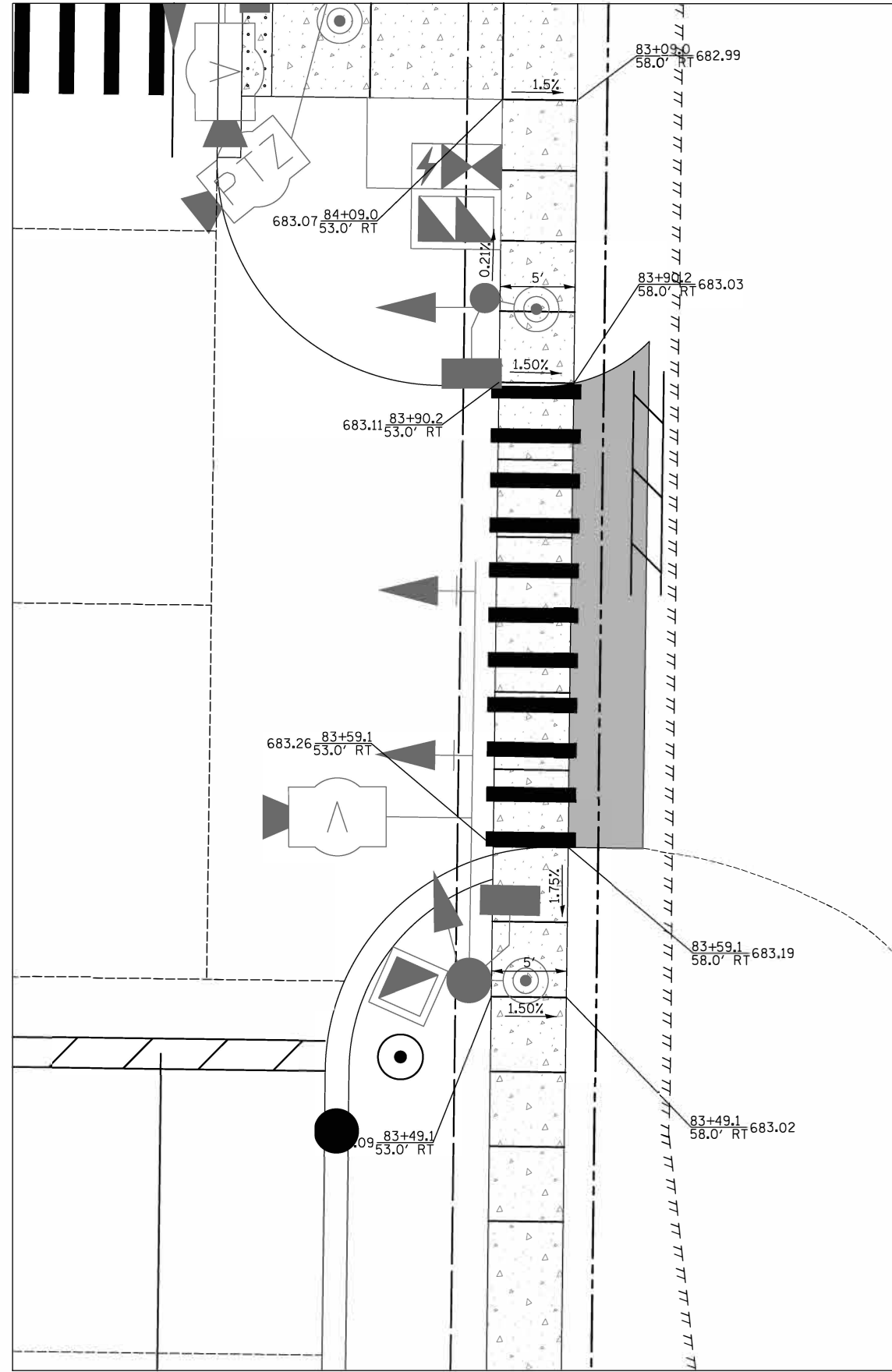


FINAL SURVEY NO.	SURVEYED BY	DATE
NOTE BOOK NO.	PLOTTED BY	
	TEMPLATE AREAS CHECKED	

ORIGINAL SURVEY NO.	SURVEYED BY	DATE
NOTE BOOK NO.	PLOTTED BY	
	TEMPLATE AREAS CHECKED	



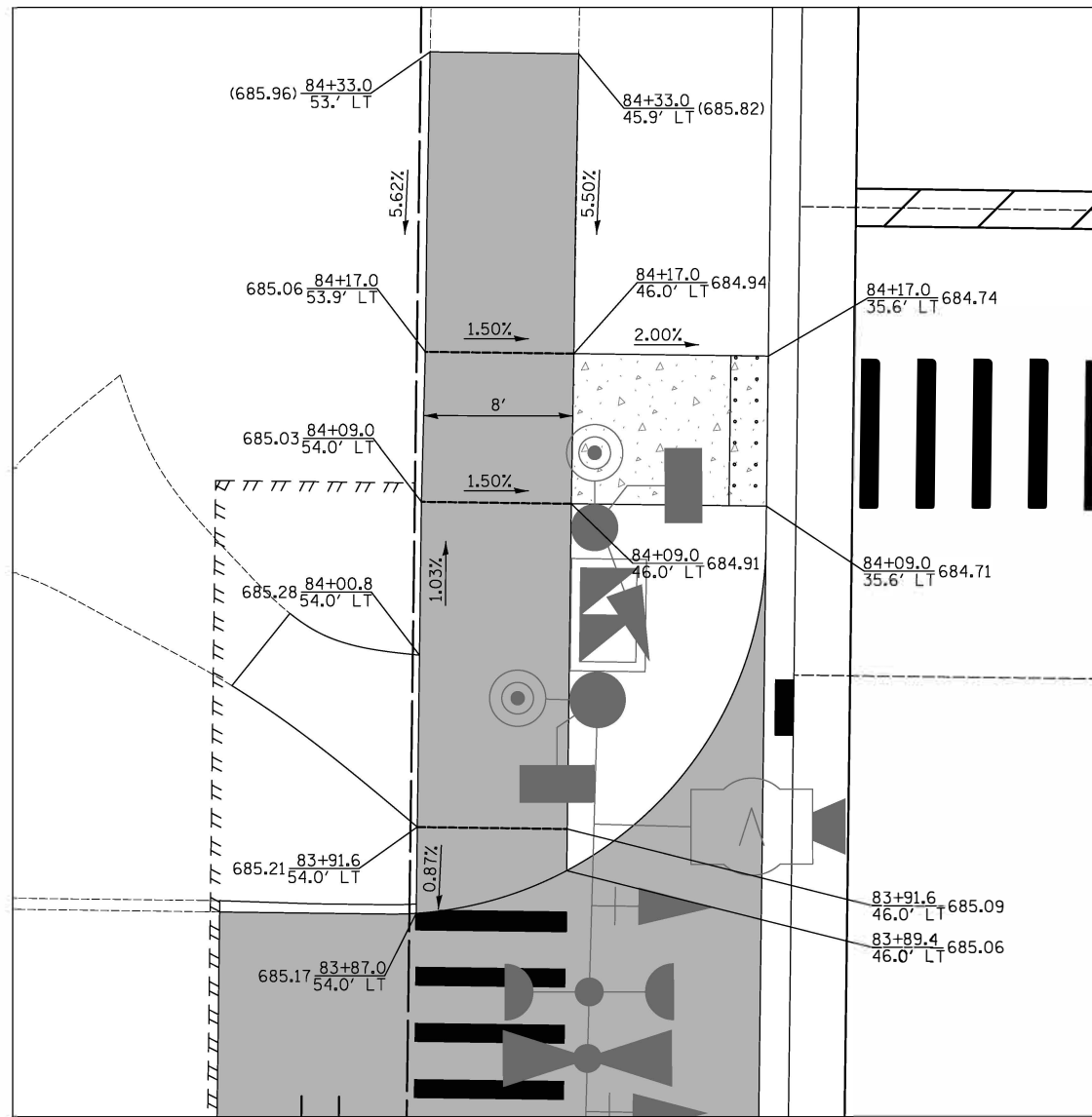
DRIVEWAY AT STA. 83+75 LT



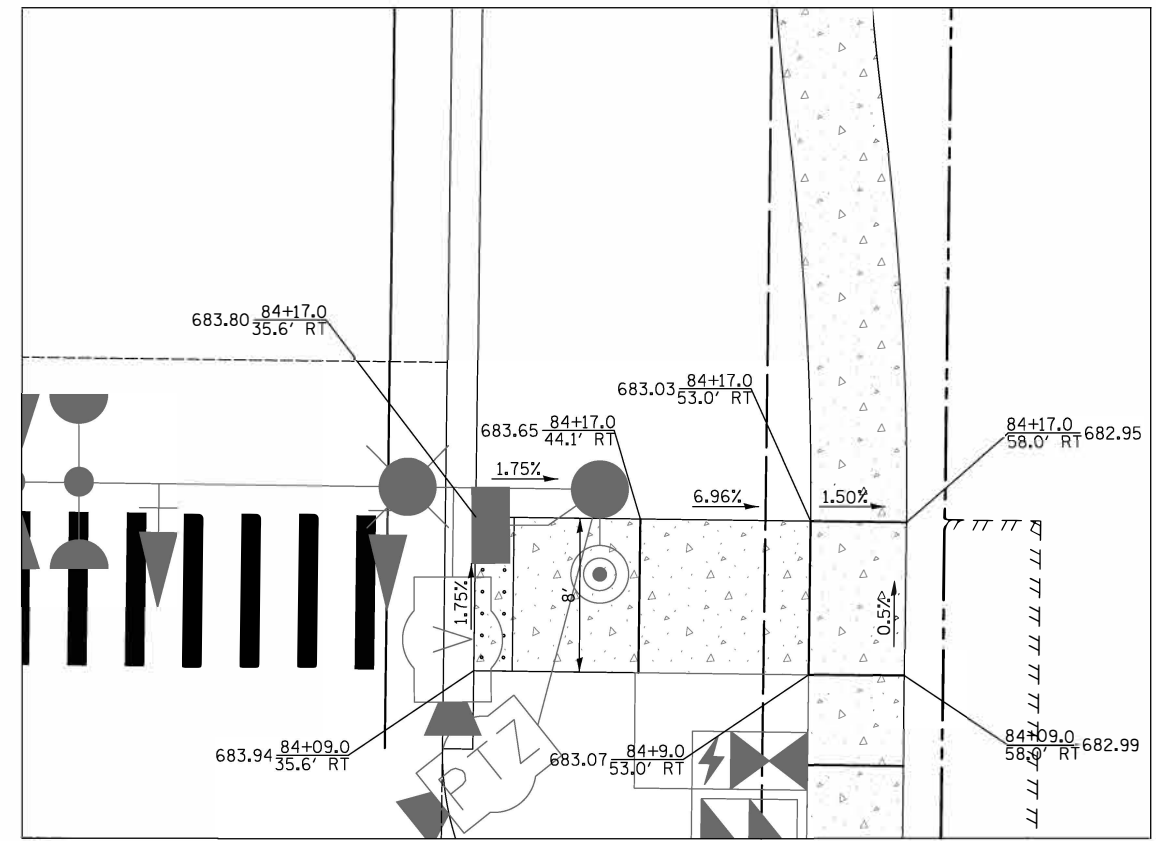
DRIVEWAY AT STA. 83+75 RT

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

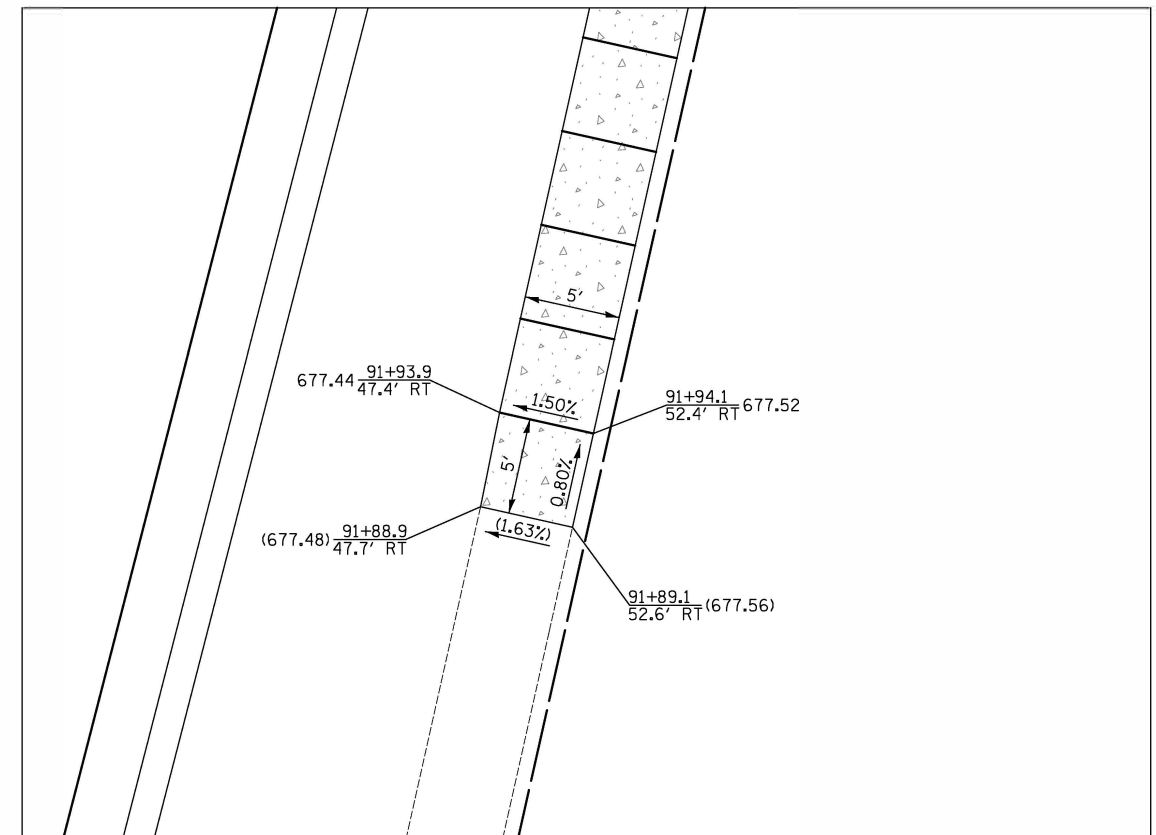
DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	



NORTHWEST CORNER CROSSWALK
WEILAND RD. AND SOUTH SCHOOL ENTRANCE



NORTHEAST CORNER CROSSWALK
WEILAND RD. AND SOUTH SCHOOL ENTRANCE

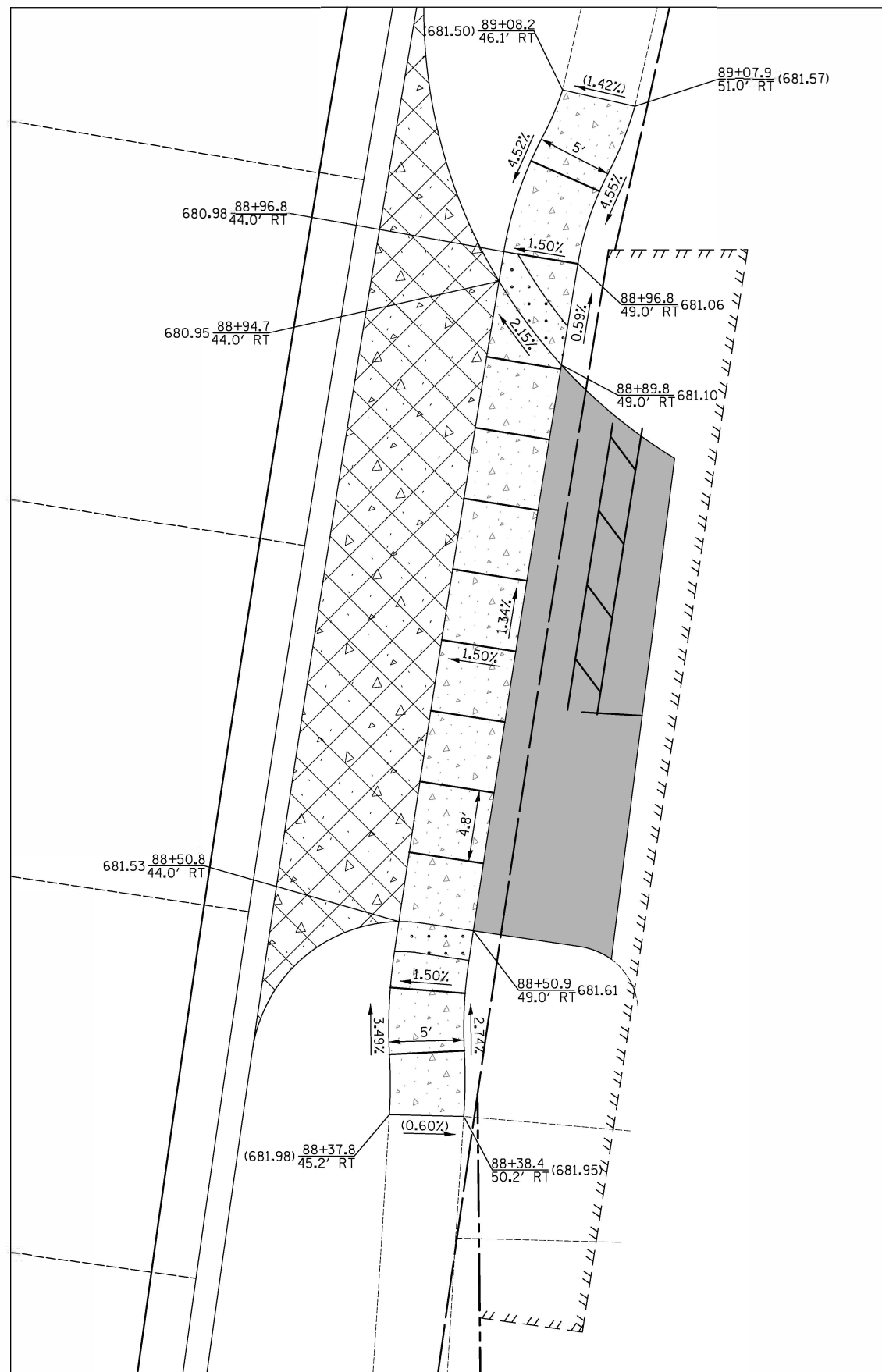


MATCH EXISTING PATH
AT STA. 91+89

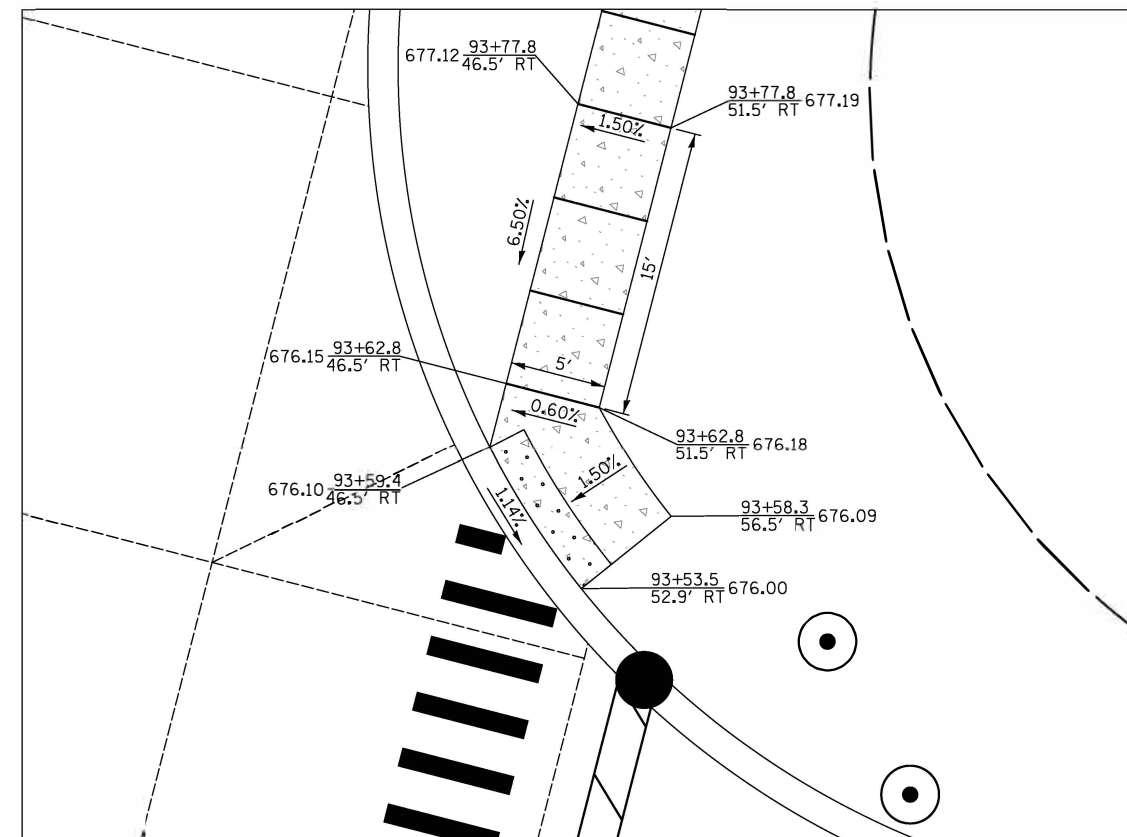


FINAL SURVEY	SURVEYED	DATE
NO.	PLOTTED	BY
	TEMPLATE	
	AREAS	
	CHECKED	

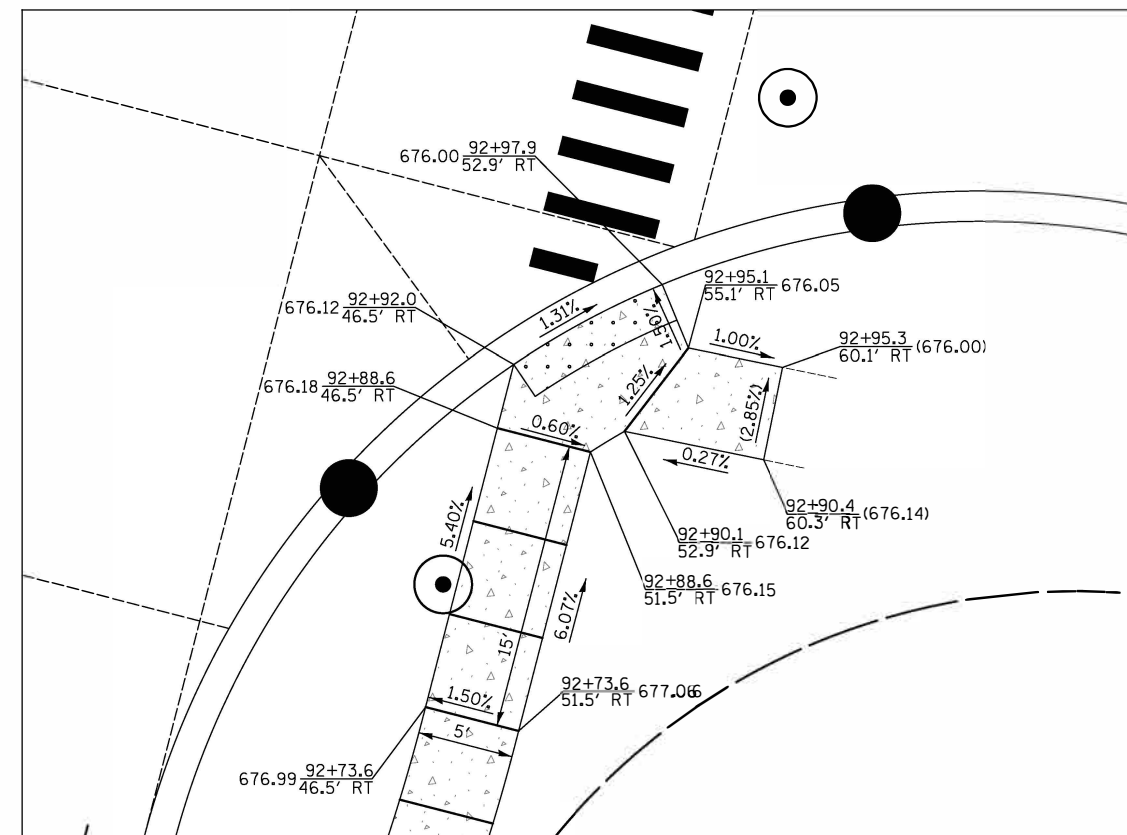
ORIGINAL SURVEY	SURVEYED	DATE
NO.	PLOTTED	BY
	TEMPLATE	
	AREAS	
	CHECKED	



DRIVEWAY AT STA. 88+68



CROSSWALK
WEILAND RD. AND ABBOTT CT.

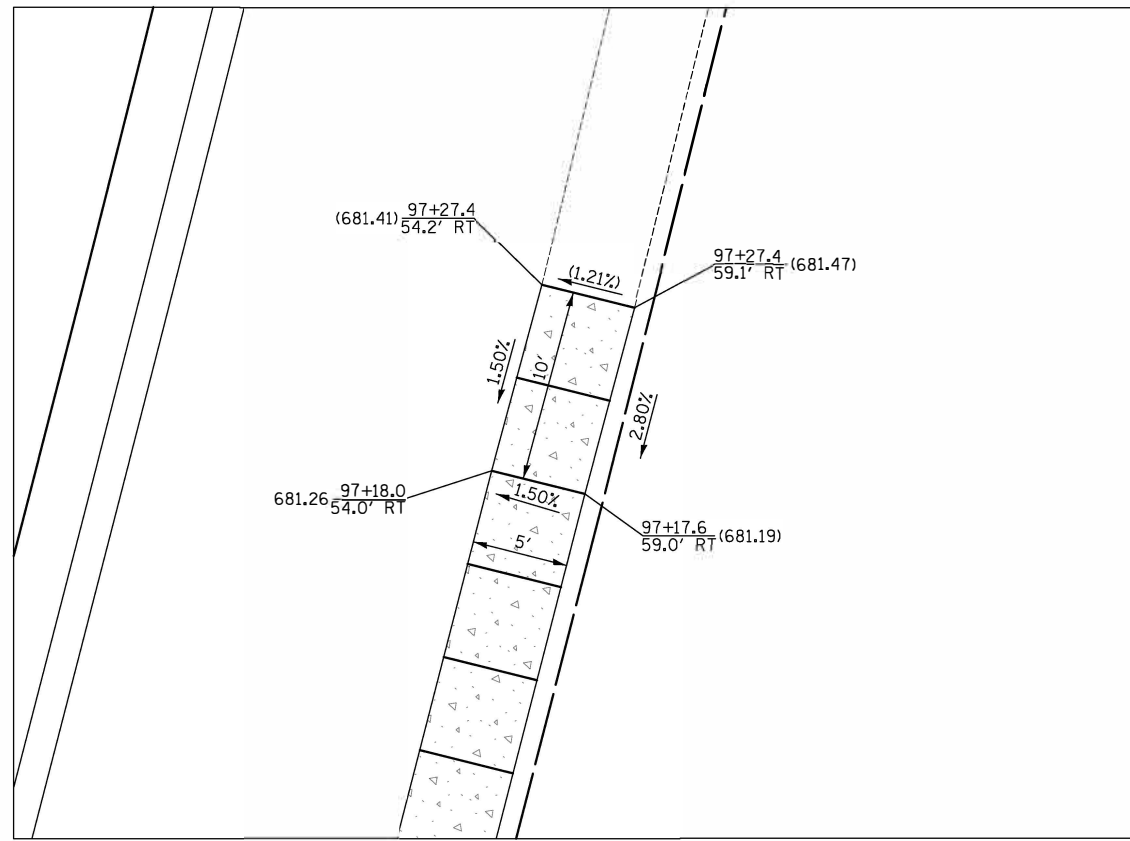


CROSSWALK
WEILAND RD. AND ABBOTT CT.

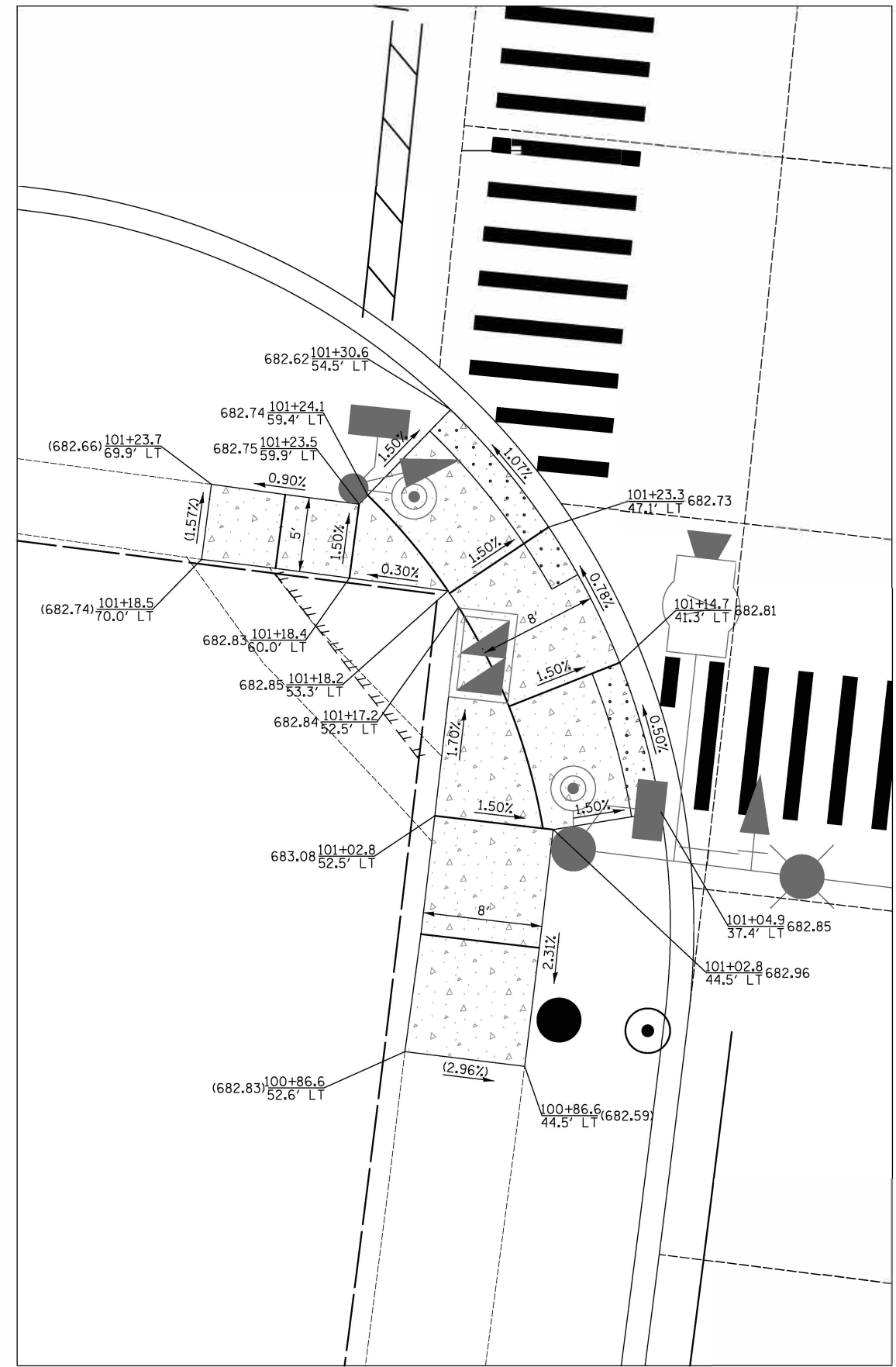


FINL	SURVEYED	DATE
SURVEY	PLOTTED	BY
NOTE BOOK	TEMPLATE	
NO.	AREAS CHECKED	

ORIGINAL	SURVEYED	DATE
SURVEY	PLOTTED	BY
NOTE BOOK	TEMPLATE	
NO.	AREAS CHECKED	

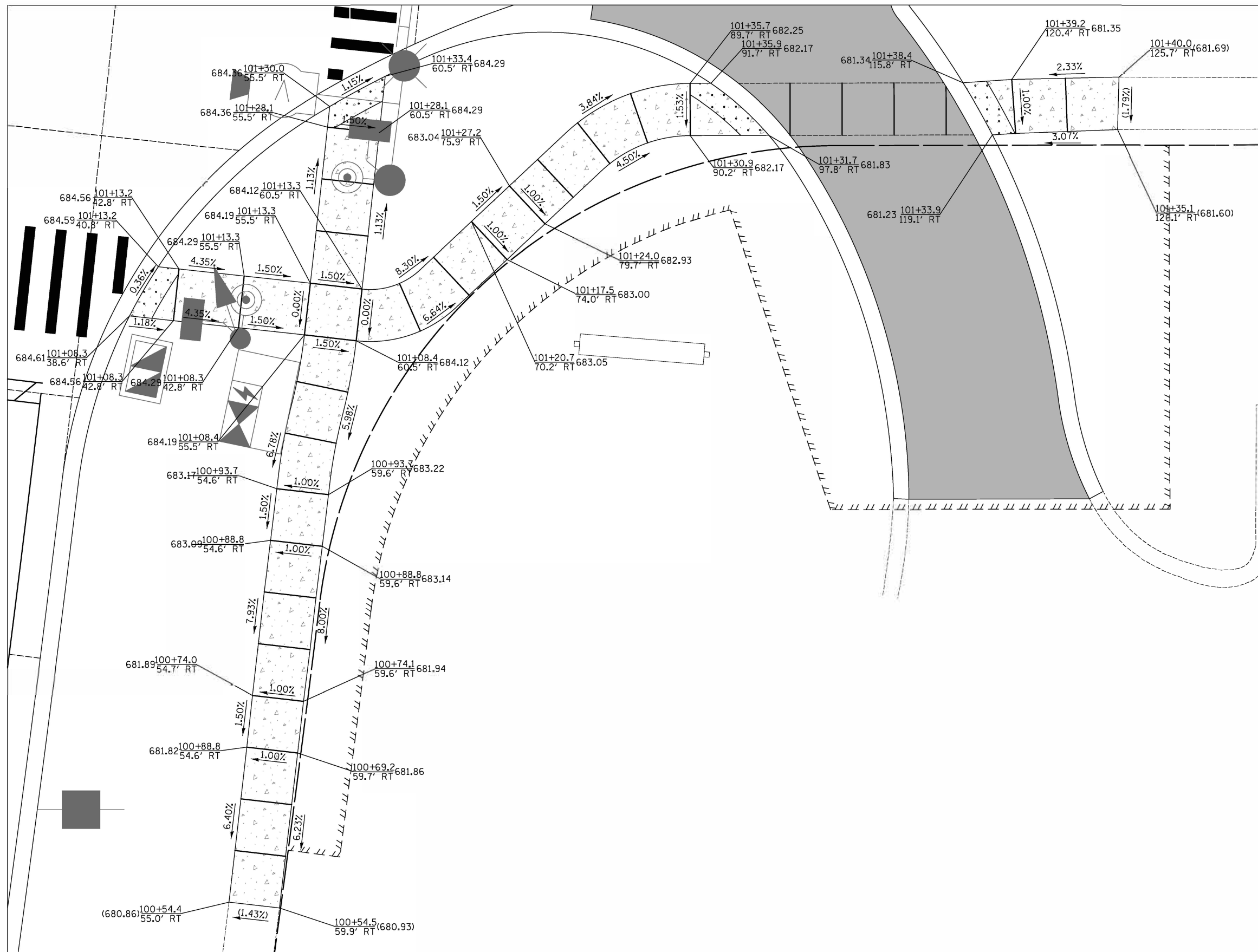


MATCH EXISTING PATH
AT STA. 97+27



SOUTHWEST CORNER CROSSWALK
WEILAND RD. AND THOMPSON BLVD.





SOUTHEAST CORNER CROSSWALK
WEILAND RD. AND ABBOTT CT.

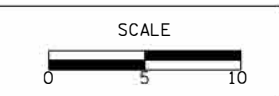
FINAL SURVEY NO.	SURVEYED BY	DATE

ORIGINAL SURVEY NO.	SURVEYED BY	DATE

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

DESIGNED - PK	REVISED -
DRAWN - PK	REVISED -
CHECKED - JRV	REVISED -
DATE - 6/10/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

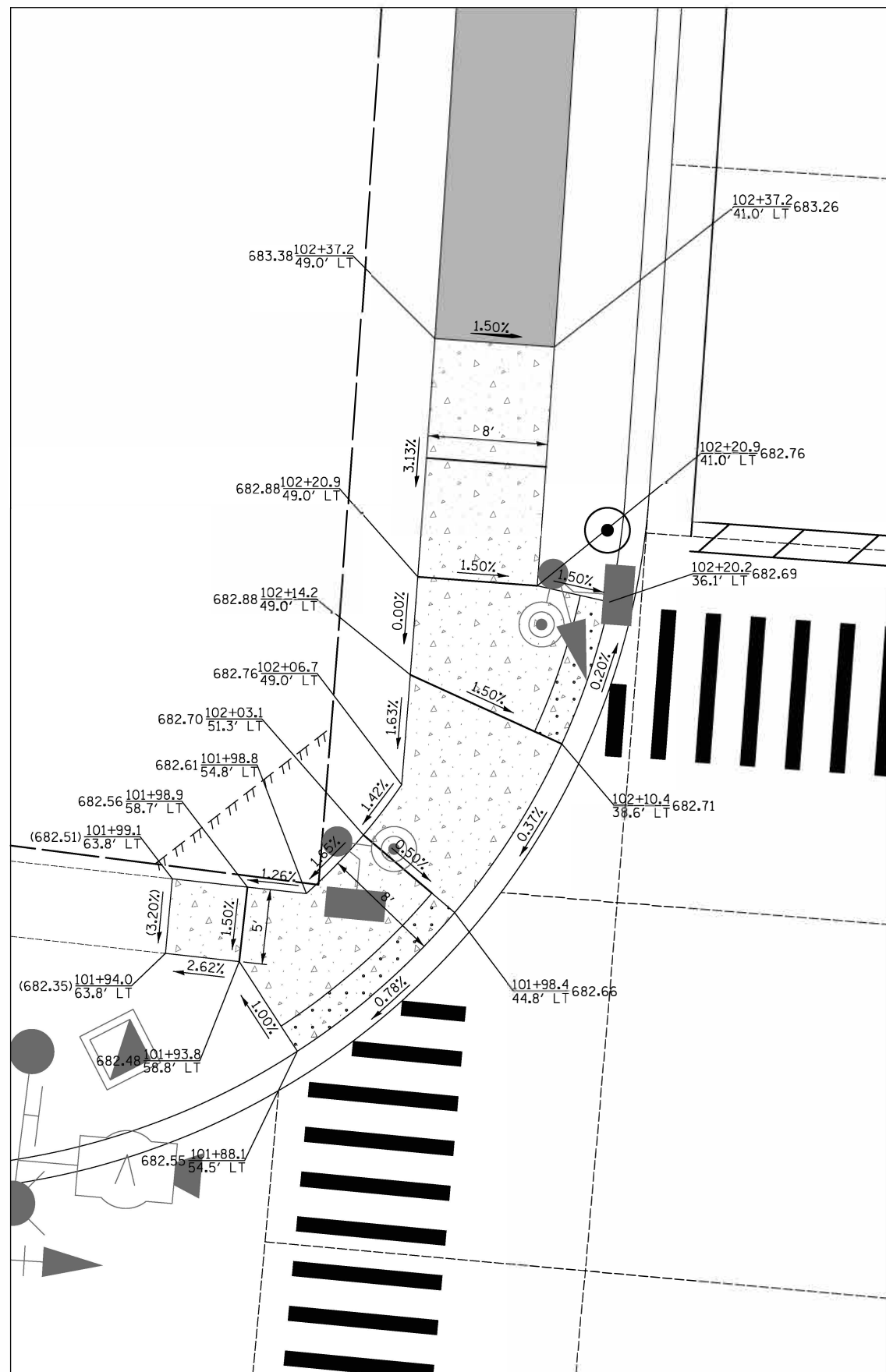


SIDEWALK RAMP DETAILS
SHEET NO. 8 OF 18 SHEETS STA. TO STA.

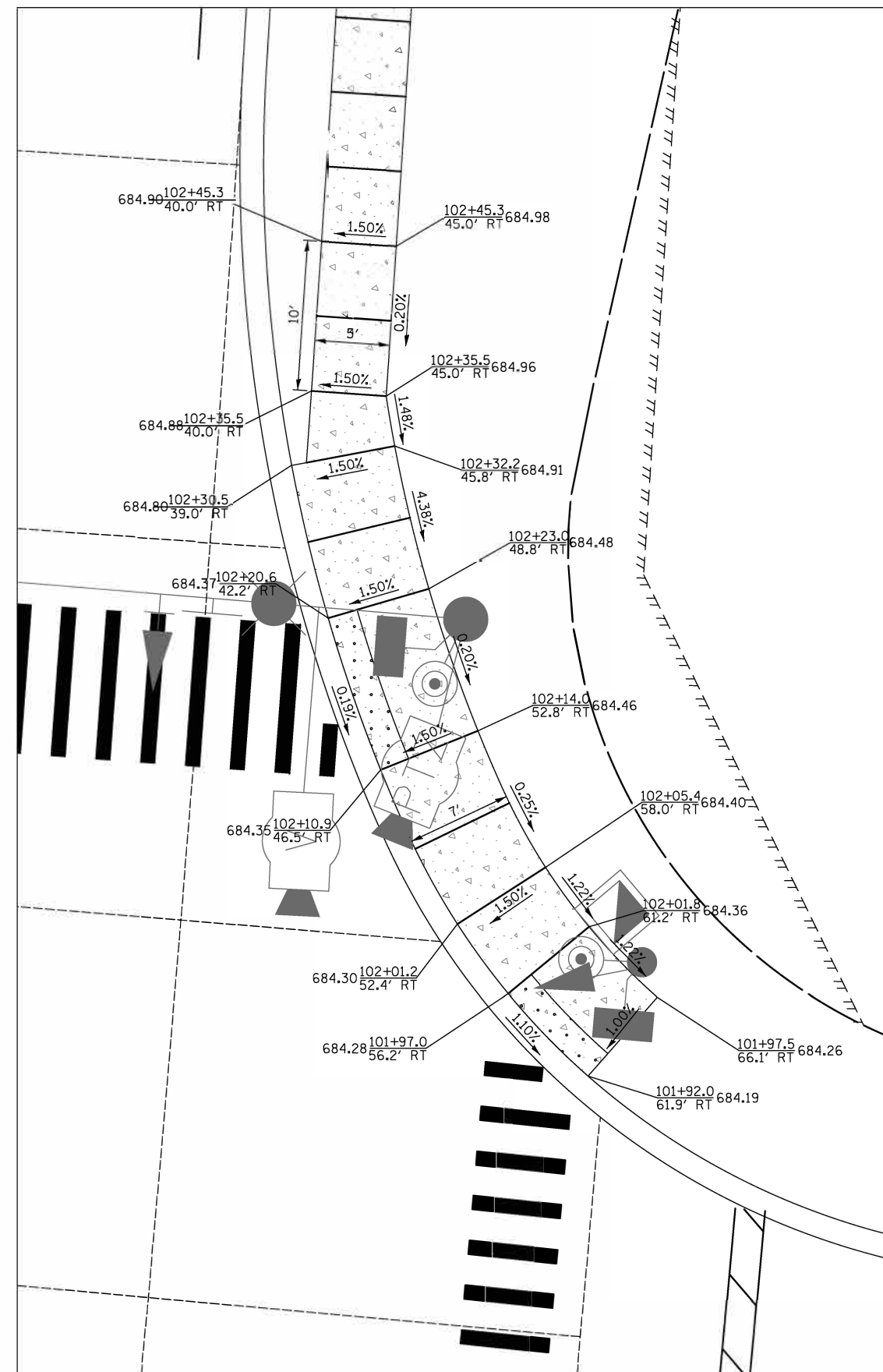
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2665	18-00158-13-WR	LAKE	623	205
CONTRACT NO. 61F25				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	



NORTHWEST CORNER CROSSWALK
WEILAND RD. AND THOMPSON BLVD.



NORTHEAST CORNER CROSSWALK
WEILAND RD. AND ABBOTT CT.



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

DESIGNED - PK	REVISED -
DRAWN - PK	REVISED -
CHECKED - JRV	REVISED -
DATE - 6/10/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



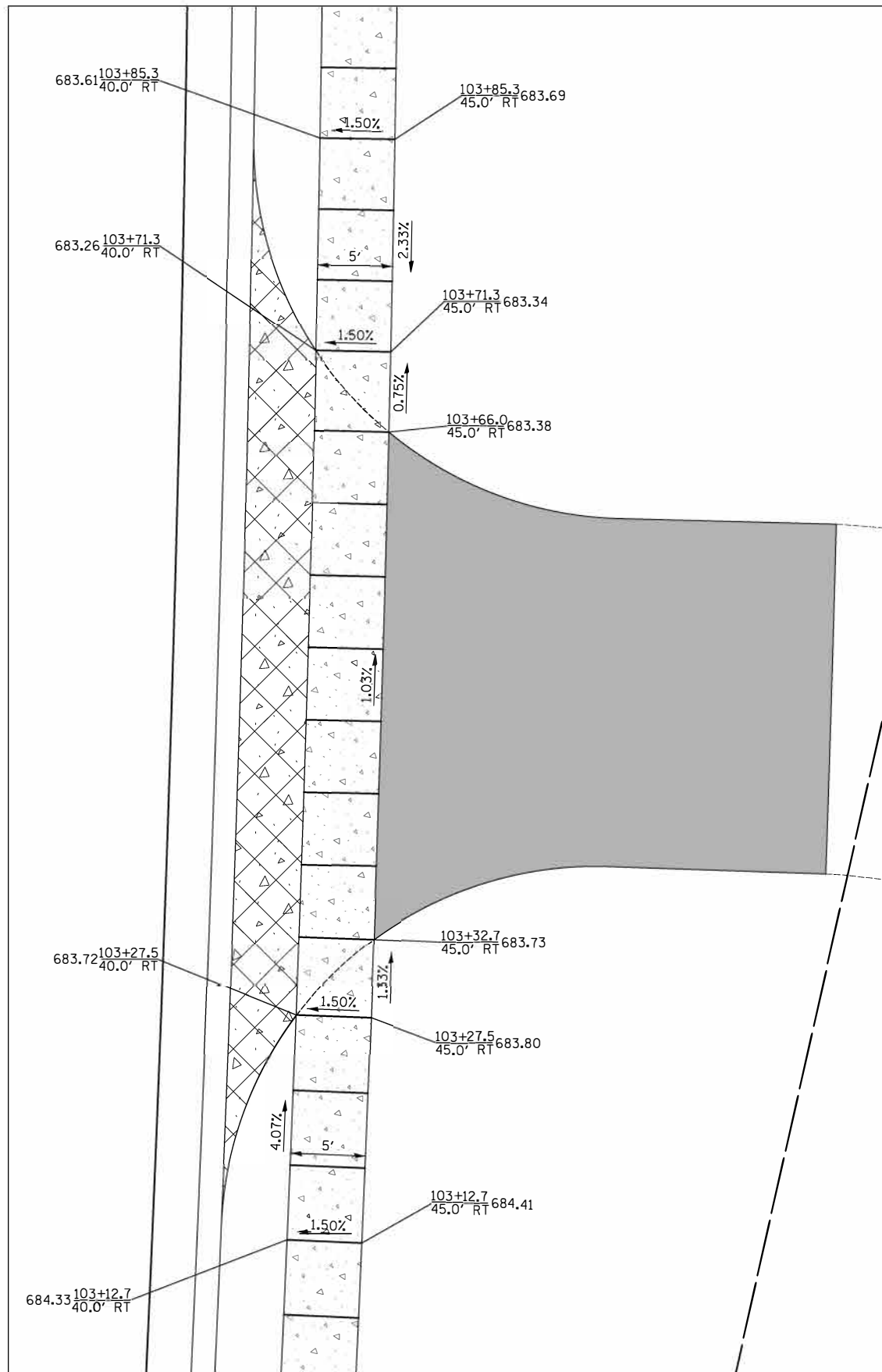
SIDEWALK RAMP DETAILS

SHEET NO. 9 OF 18 SHEETS STA. TO STA.

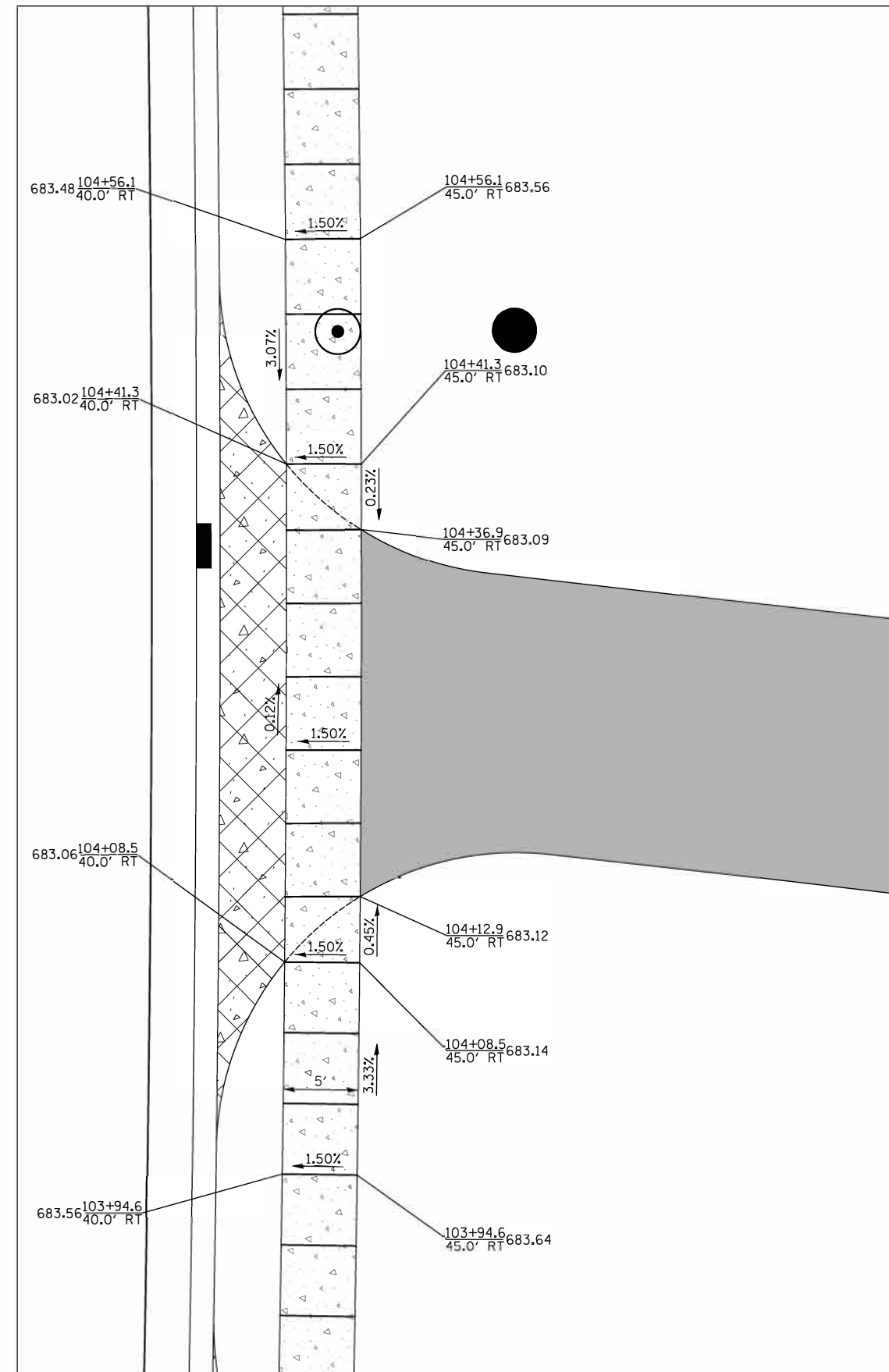
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2665	18-00158-13-WR	LAKE	623	206
CONTRACT NO. 61F25				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

FINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	TEMPLATE	
	AREAS CHECKED	

ORIGINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	TEMPLATE	
	AREAS CHECKED	



DRIVEWAY AT STA. 103+50

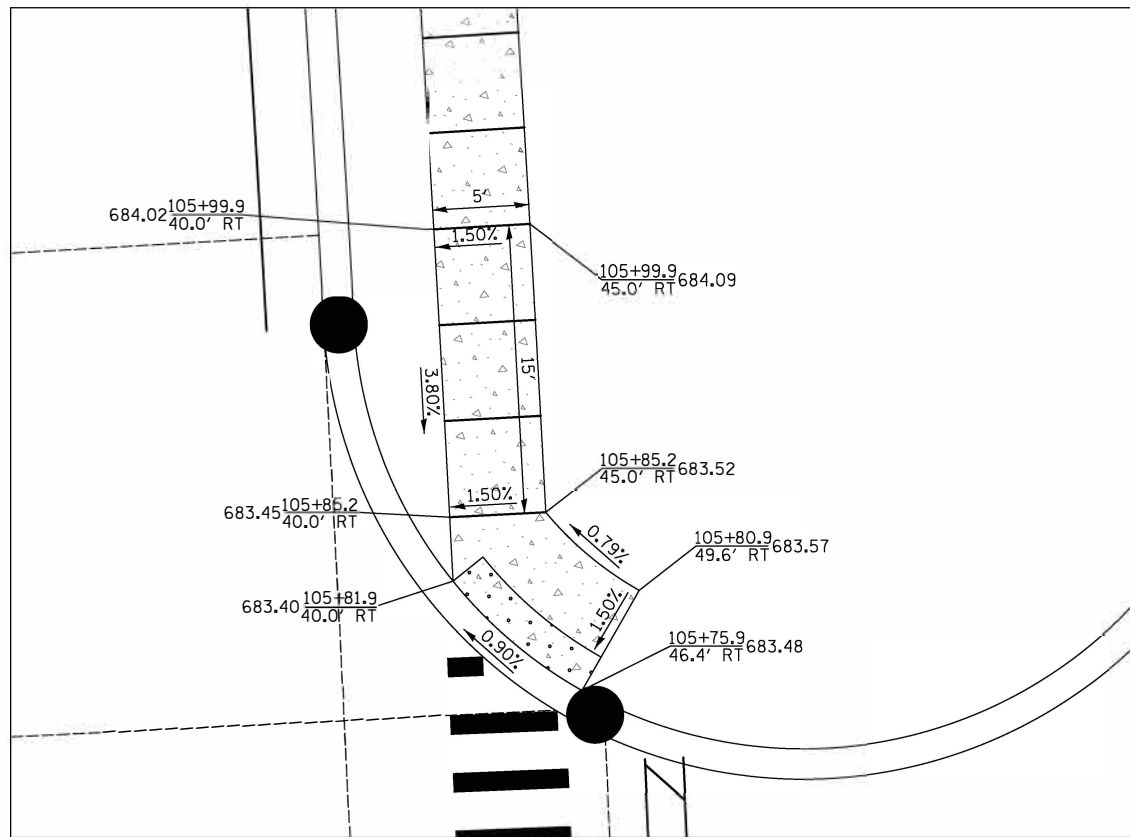


DRIVEWAY AT STA. 104+25

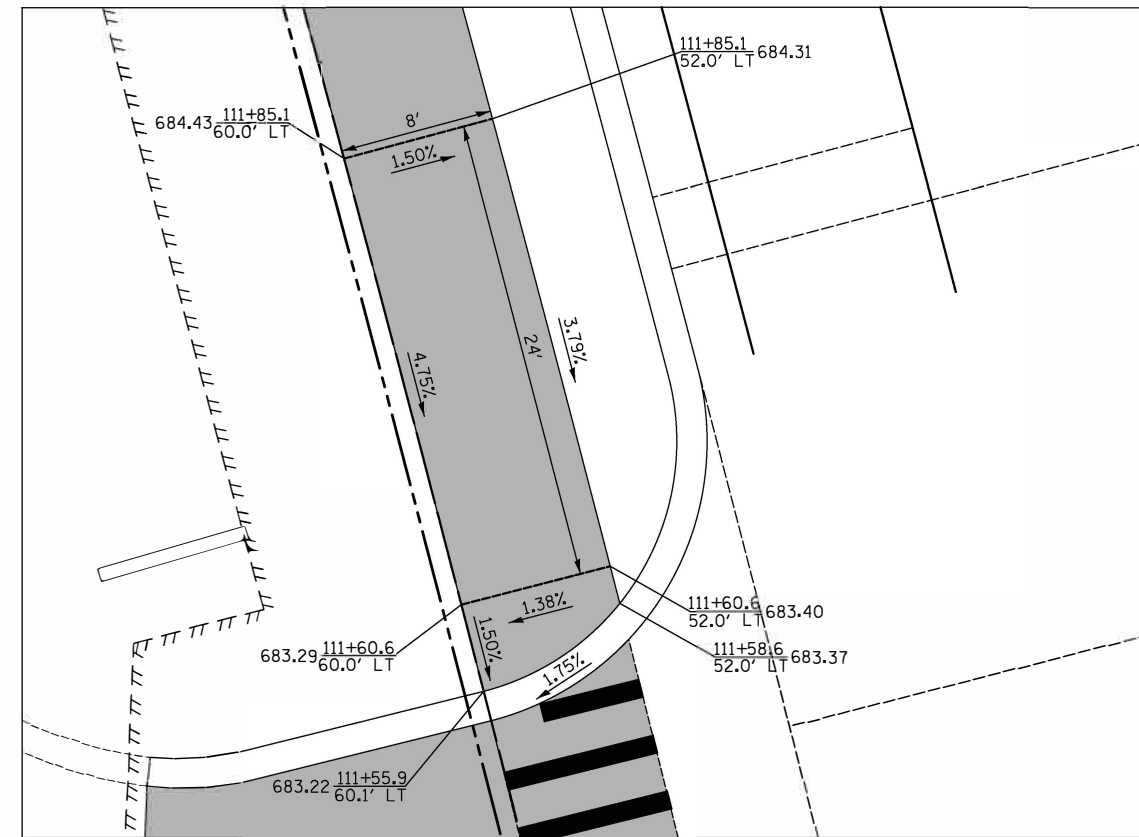


FINAL SURVEY	SURVEYED	DATE
NO. _____	BY _____	_____
NOTE BOOK	PLOTTED	DATE
NO. _____	TEMPLATE	_____
AREAS	CHECKED	_____
_____	_____	_____

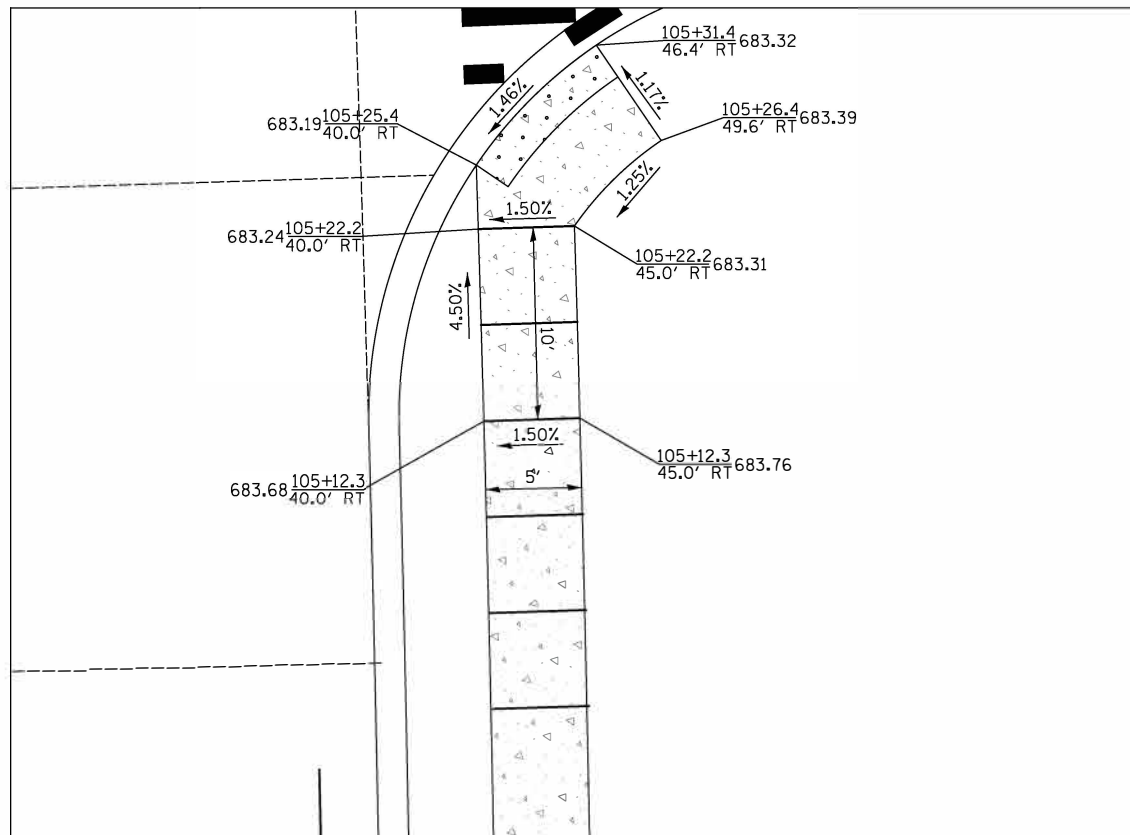
ORIGINAL SURVEY	SURVEYED	DATE
NO. _____	BY _____	_____
NOTE BOOK	PLOTTED	DATE
NO. _____	TEMPLATE	_____
AREAS	CHECKED	_____
_____	_____	_____



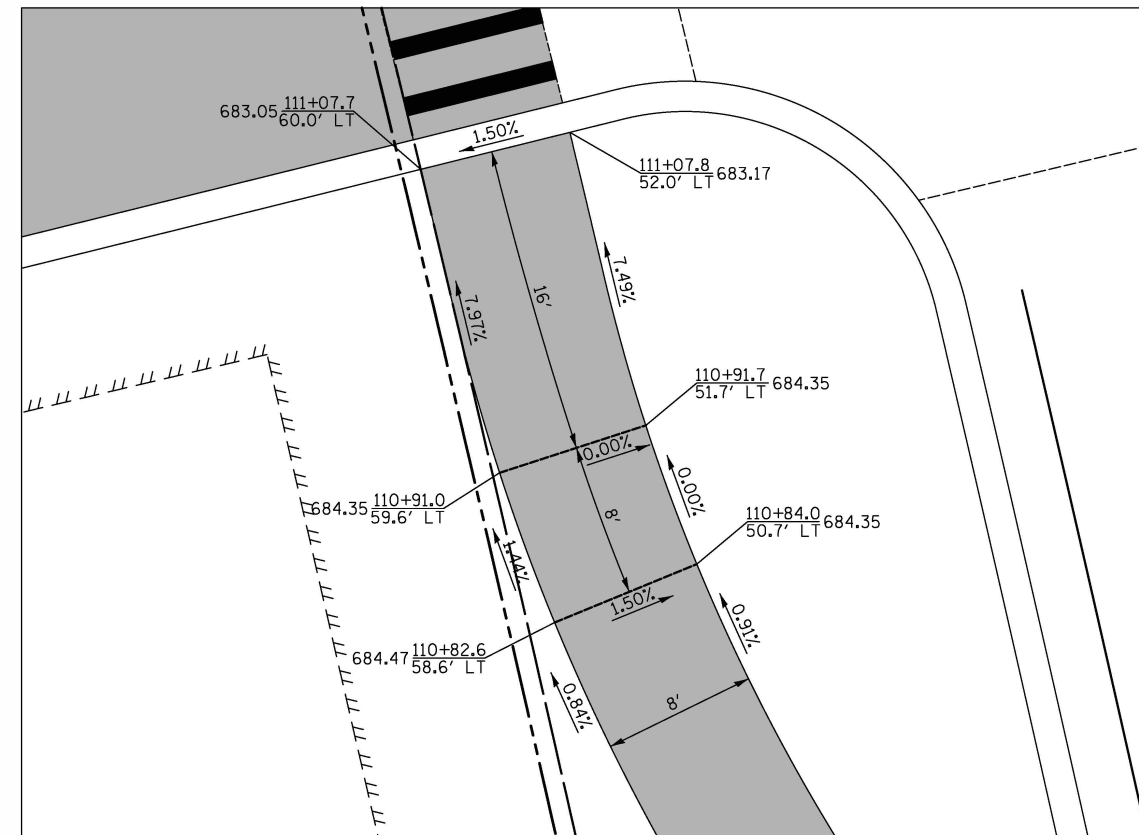
NORTHEAST CORNER CROSSWALK
WEILAND RD. AND DEPOT PL.



NORTH RAMP
DRIVEWAY AT STA. 111+31



SOUTHEAST CORNER CROSSWALK
WEILAND RD. AND DEPOT PL.

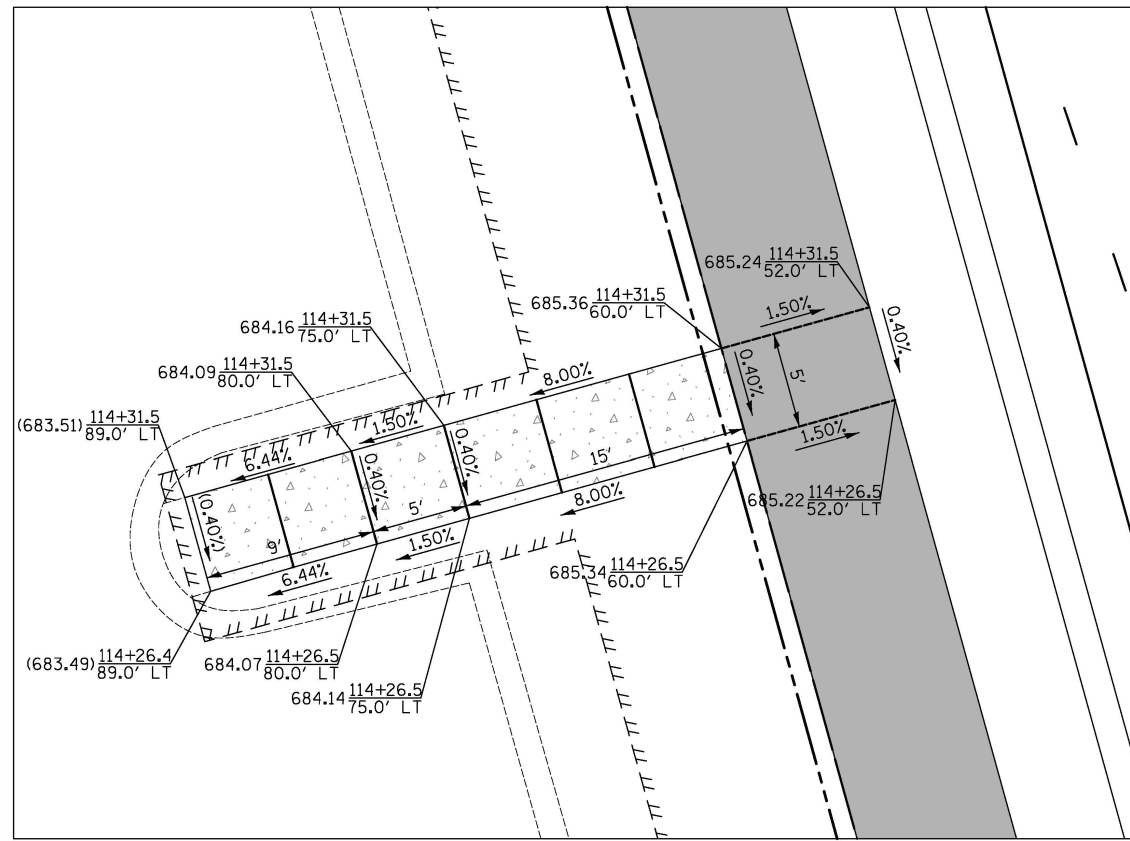


SOUTH RAMP
DRIVEWAY AT STA. 111+31



FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

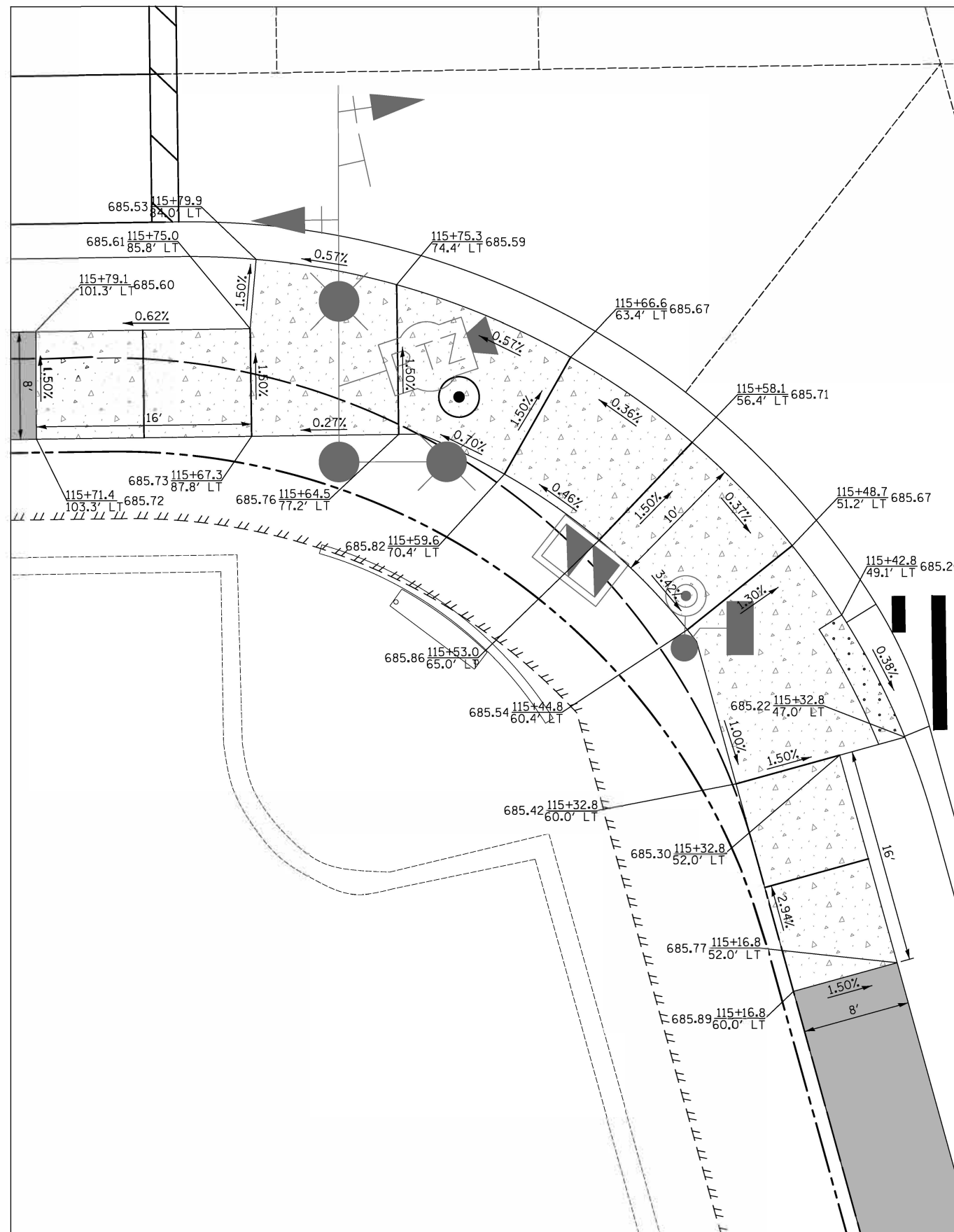
ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE



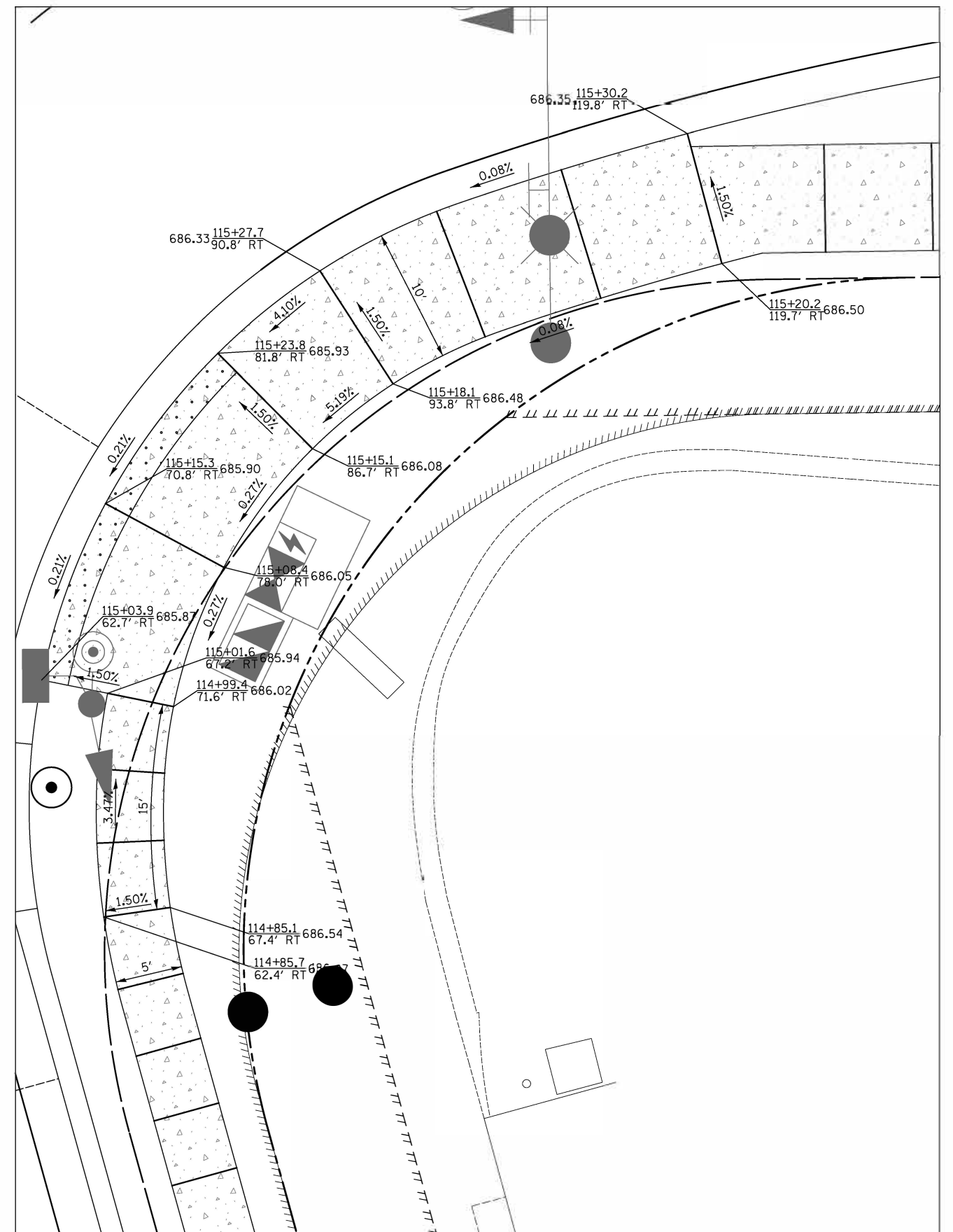
ACCESS TO EXISTING PARKING LOT
AT STA. 114+29

FINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	TEMPLATE	
	AREAS CHECKED	

ORIGINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	TEMPLATE	
	AREAS CHECKED	



SOUTHWEST CORNER CROSSWALK
WEILAND RD. AND APTAKISIC RD.



SOUTHEAST CORNER CROSSWALK
WEILAND RD. AND APTAKISIC RD.



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

DESIGNED - PK	REVISED -
DRAWN - PK	REVISED -
CHECKED - JRV	REVISED -
DATE - 6/10/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



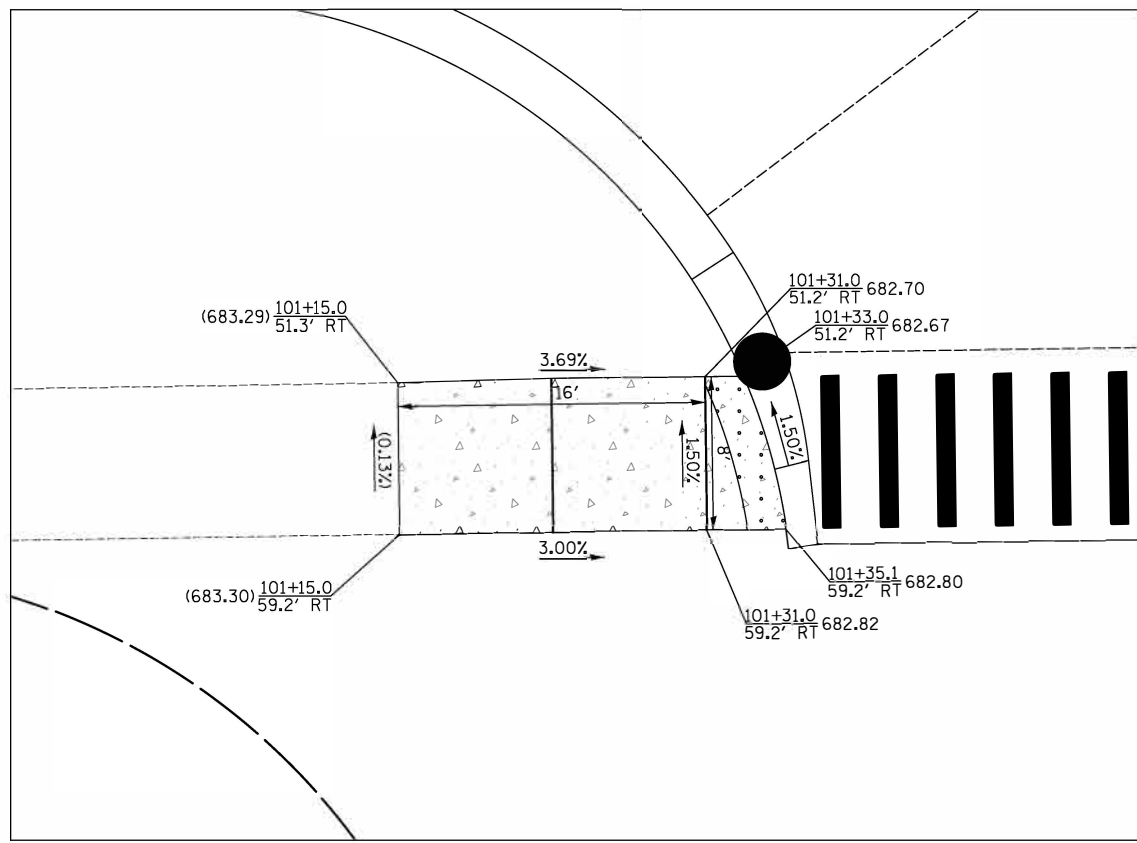
SIDEWALK RAMP DETAILS

SHEET NO. 14 OF 18 SHEETS STA. TO STA.

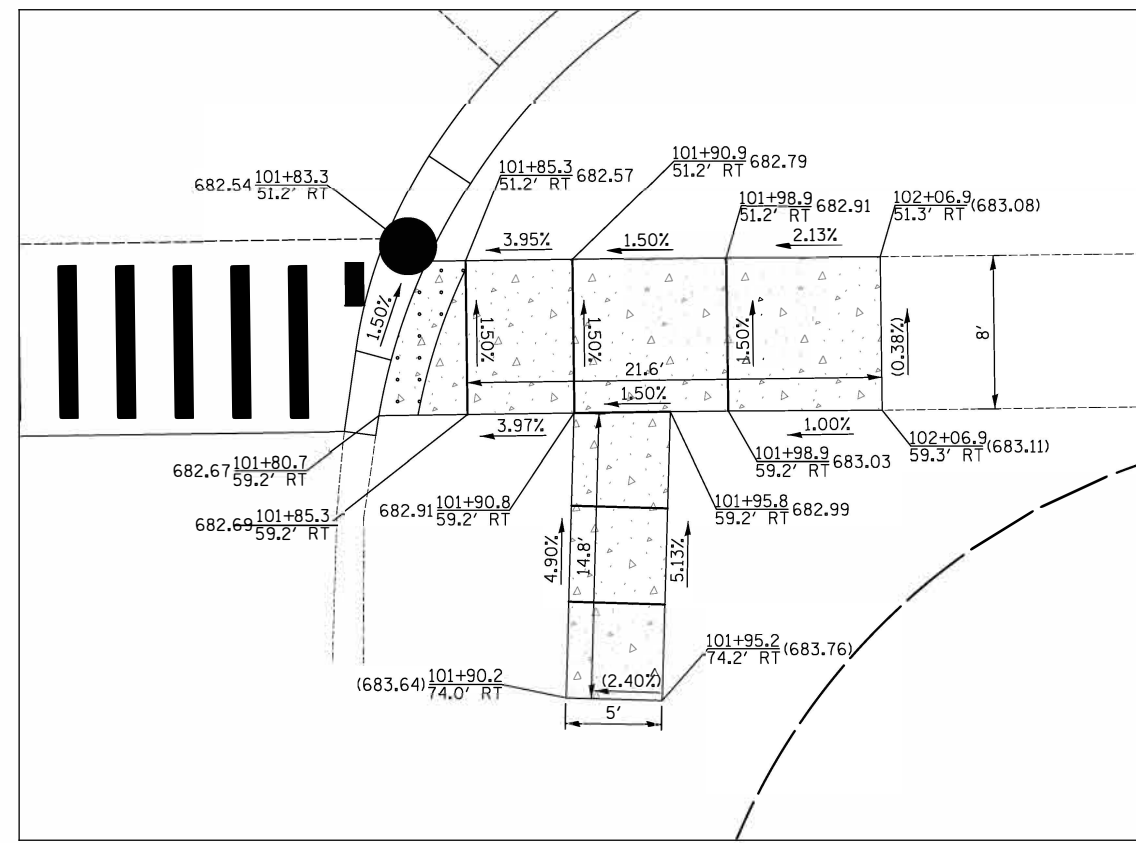
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2665	18-00158-13-WR	LAKE	623	211
CONTRACT NO. 61F25				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

DATE	BY
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

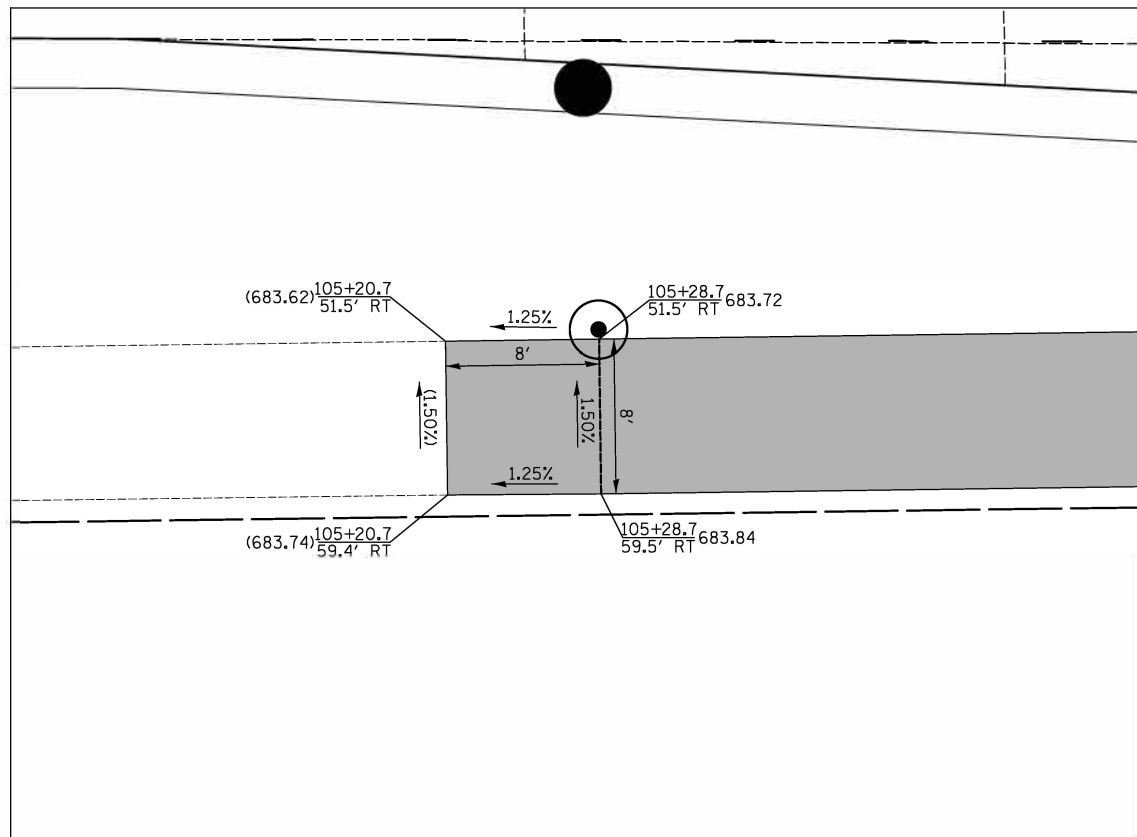
DATE	BY
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	



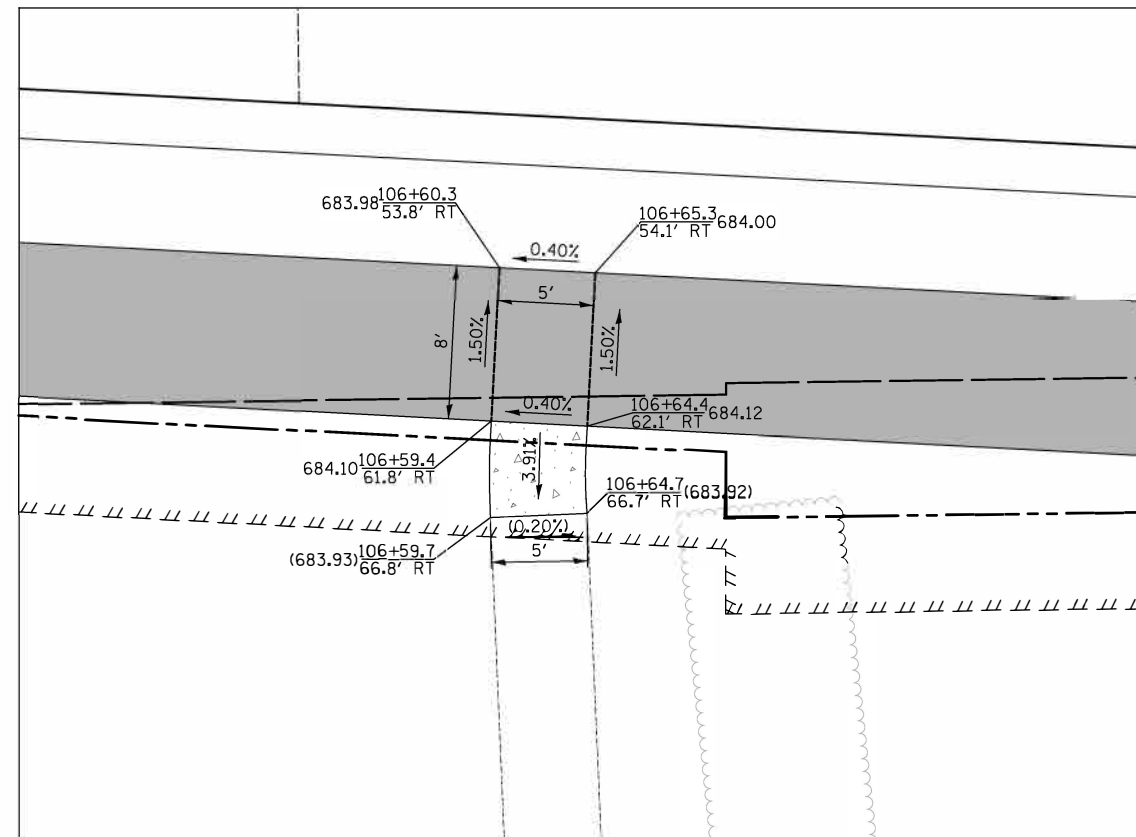
SOUTHWEST CORNER CROSSWALK
APTAKISIC RD. AND JOSEPH CT.



SOUTHEAST CORNER CROSSWALK
APTAKISIC RD. AND JOSEPH CT.

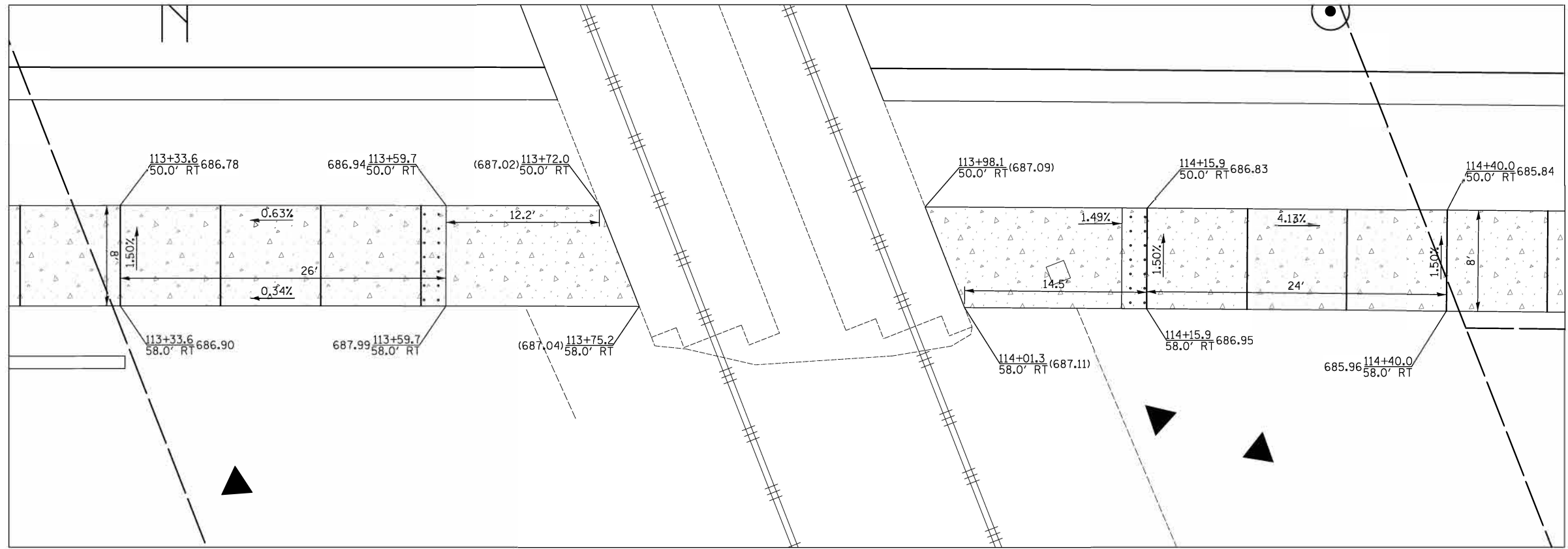


MATCH EXISTING PATH
AT STA. 105+25



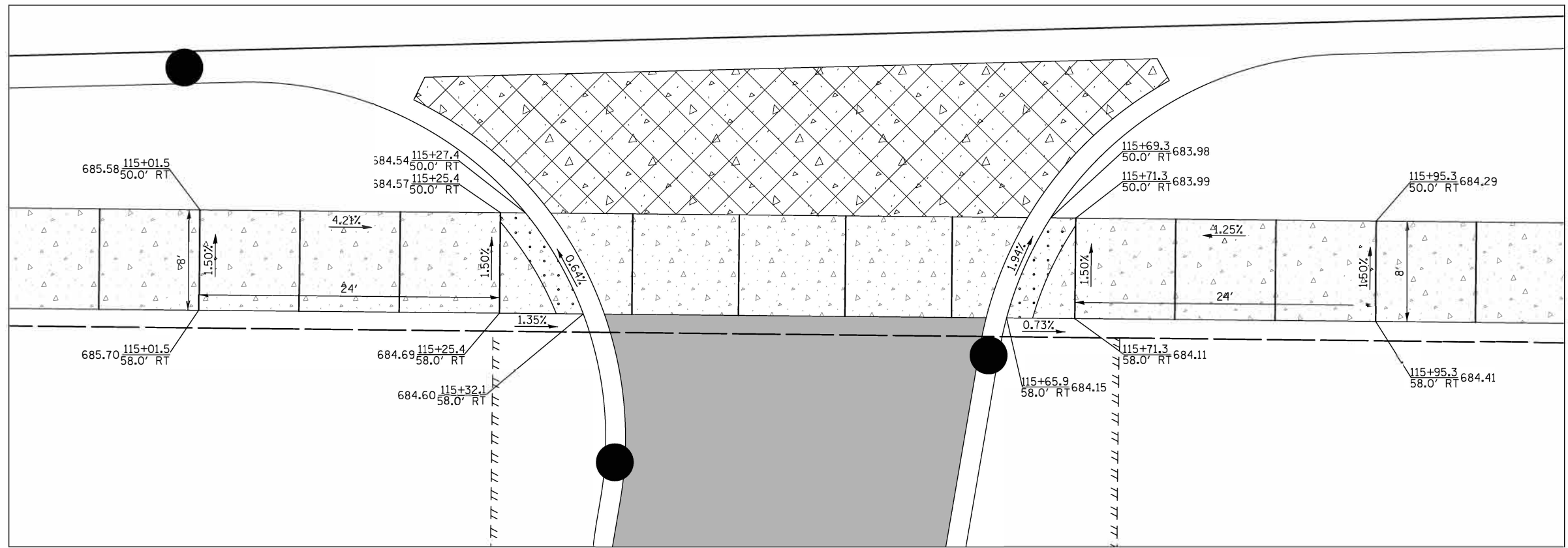
MATCH EXISTING PATH
AT STA. 116+61

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	



APTAKISIC RD. AND WISCONSIN CENTRAL
RAIL CROSSING

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	



APTAKISIC RD. AND ROADWAY LN.



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

DESIGNED - PK	REVISED -
DRAWN - PK	REVISED -
CHECKED - JRV	REVISED -
DATE - 6/10/2019	REVISED -

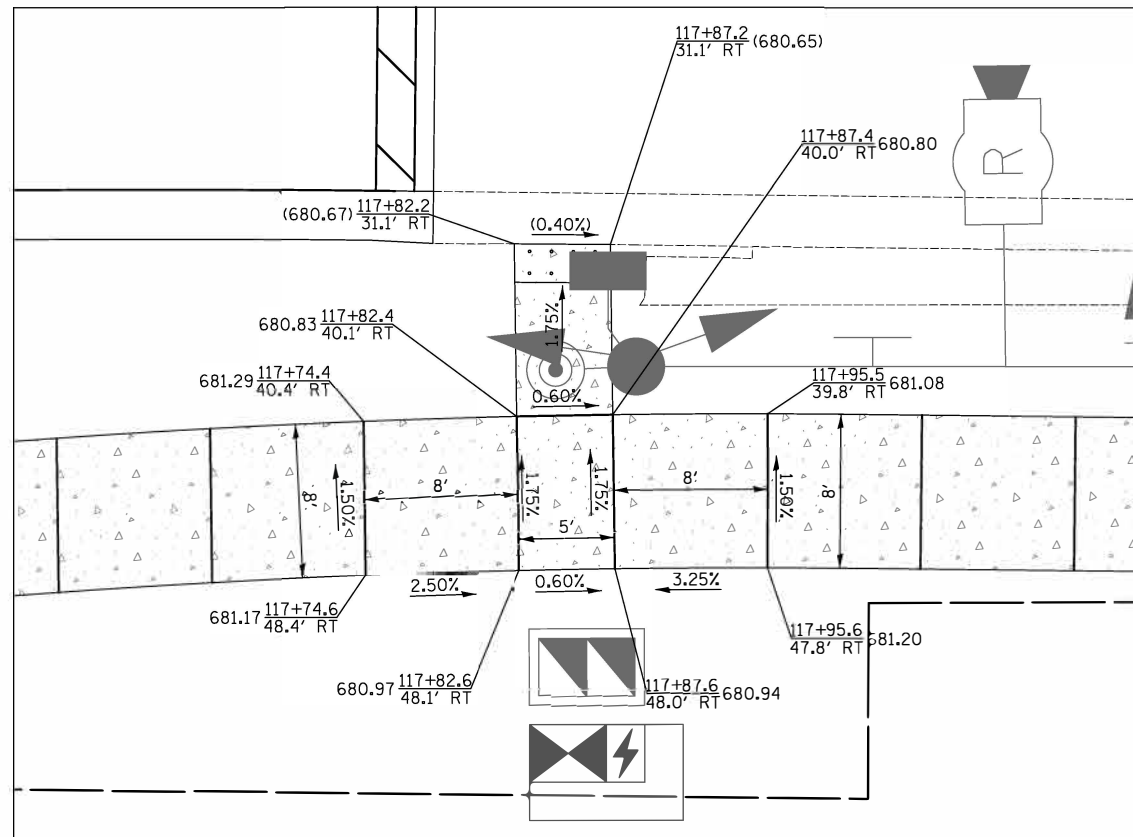
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



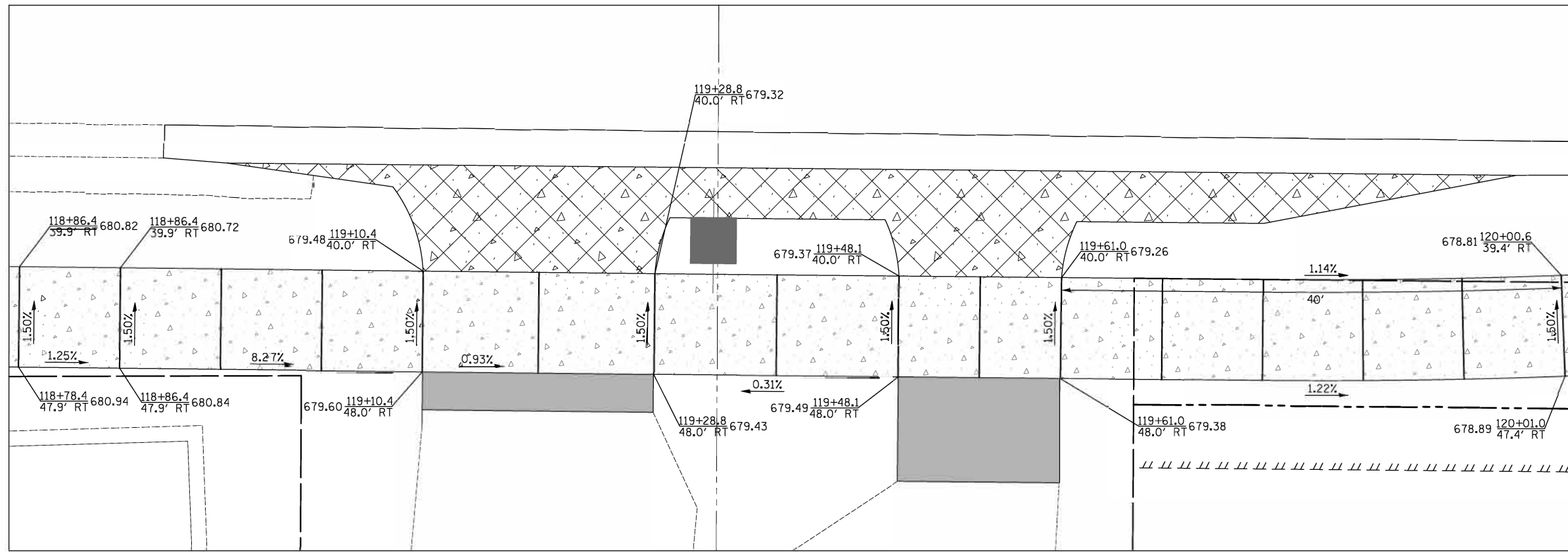
SIDEWALK RAMP DETAILS

SHEET NO. 16 OF 18 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2665	18-00158-13-WR	LAKE	623	213
CONTRACT NO. 61F25				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



MID BLOCK CROSSWALK
AT STA. 117+85



DRIVEWAYS AT
STA. 119+18 AND STA. 119+56

DATE	BY	SURVEYED	PLOTTED	NOTE BOOK	AREAS CHECKED

DATE	BY	SURVEYED	PLOTTED	NOTE BOOK	AREAS CHECKED



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

DESIGNED - PK	REVISED -
DRAWN - PK	REVISED -
CHECKED - JRV	REVISED -
DATE - 6/10/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



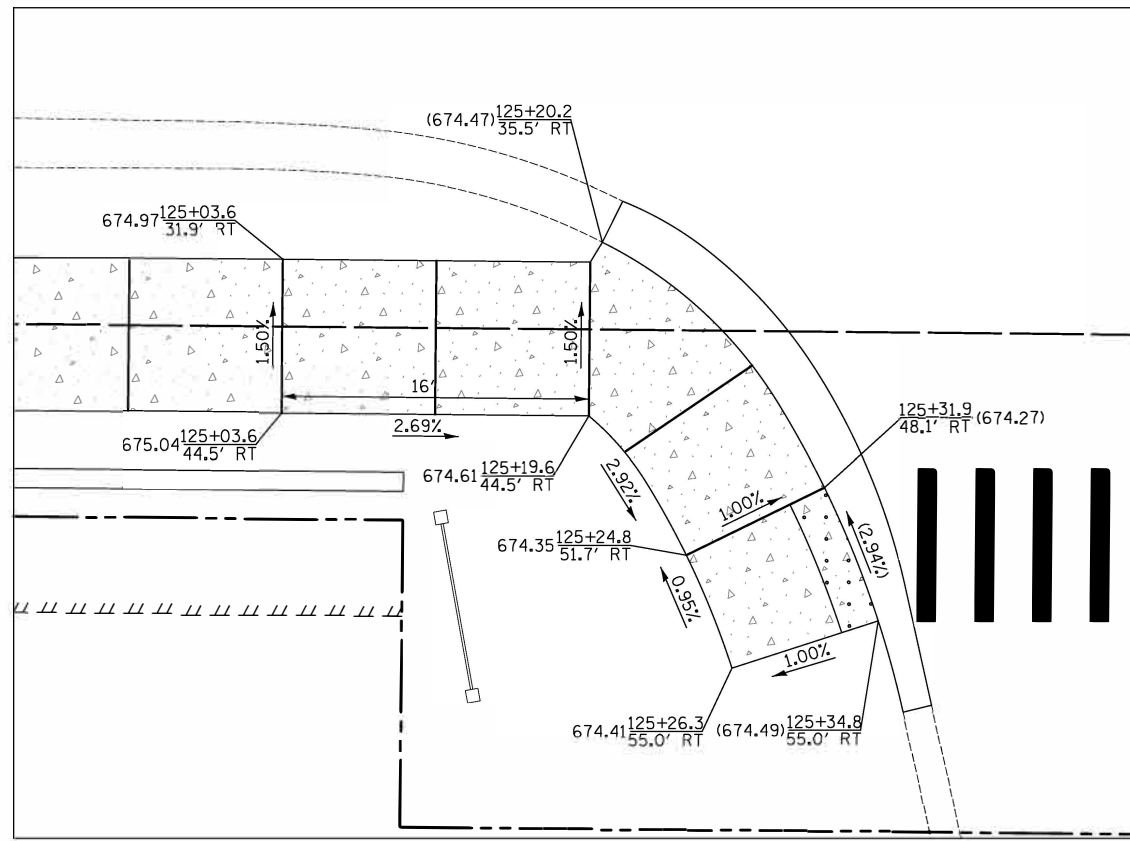
SIDEWALK RAMP DETAILS

SHEET NO. 17 OF 18 SHEETS STA. TO STA.

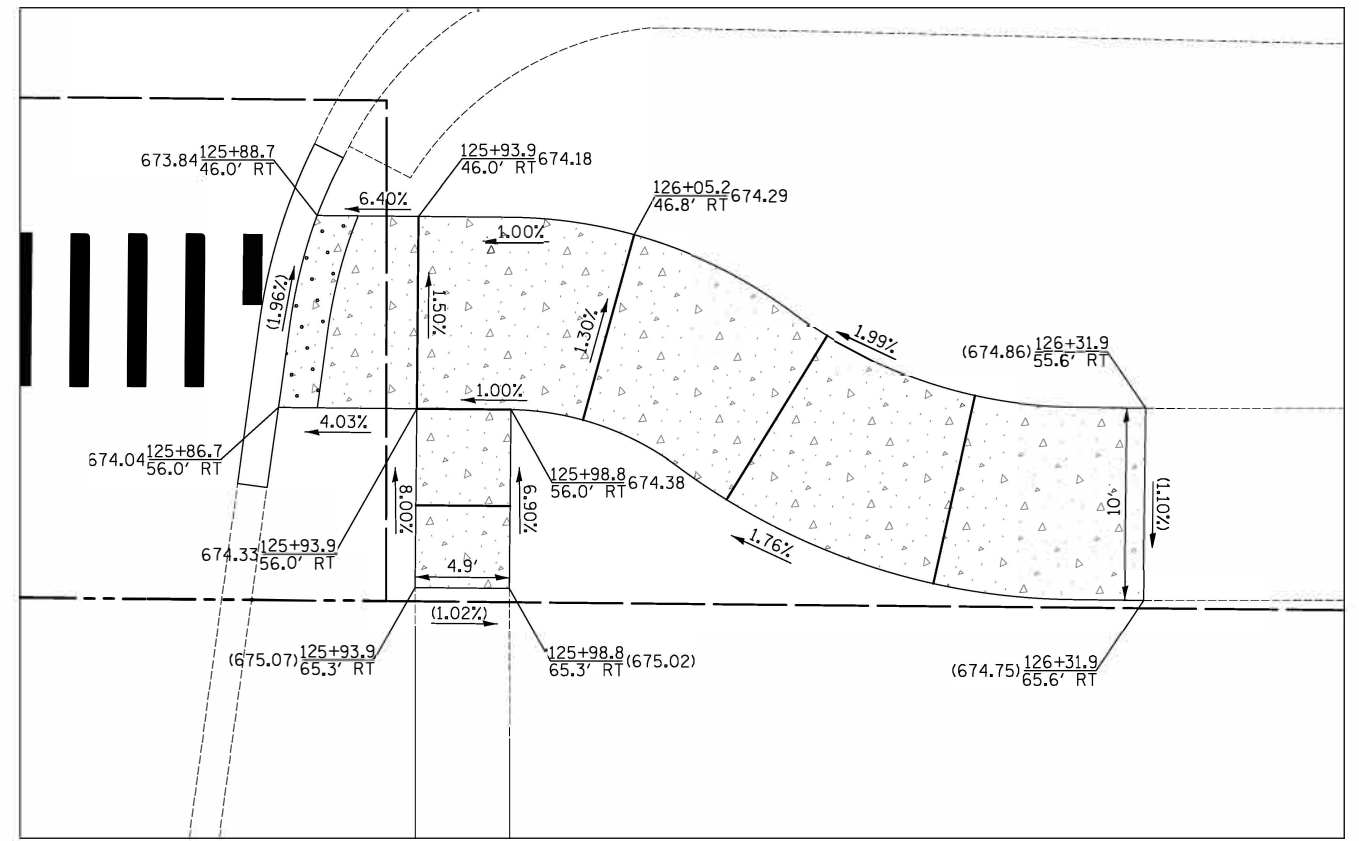
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2665	18-00158-13-WR	LAKE	623	214
CONTRACT NO. 61F25				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS CHECKED		



SOUTHWEST CORNER CROSSWALK
APTAKASIC RD. AND INDUSTRIAL DR.

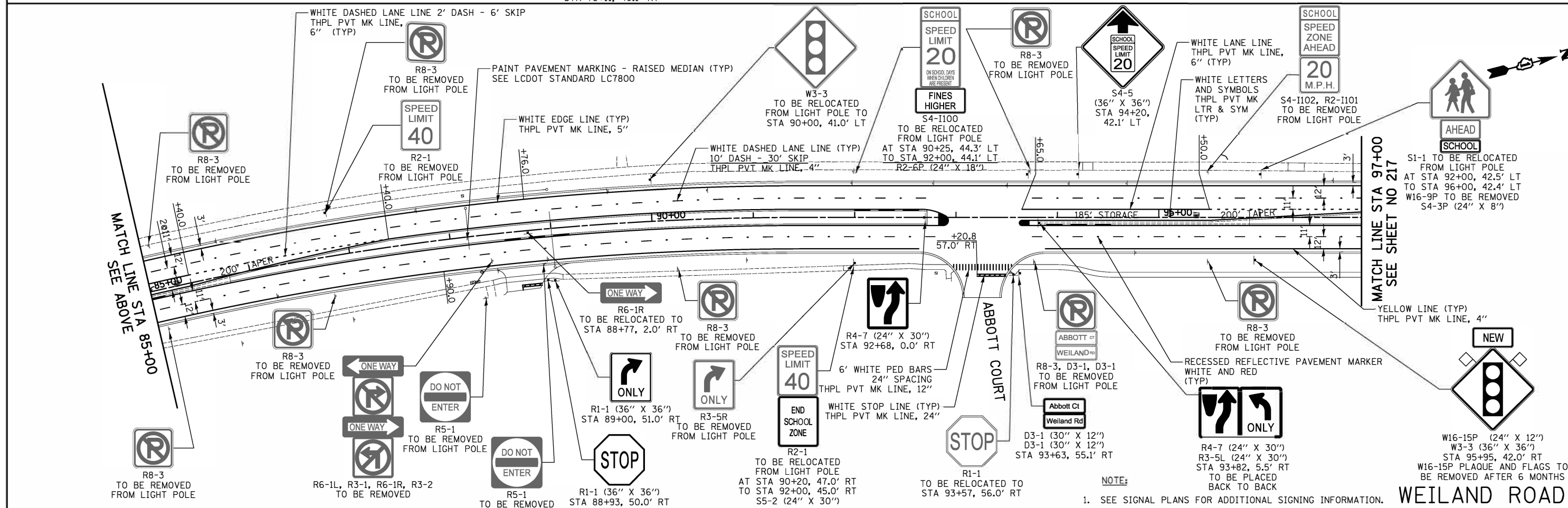
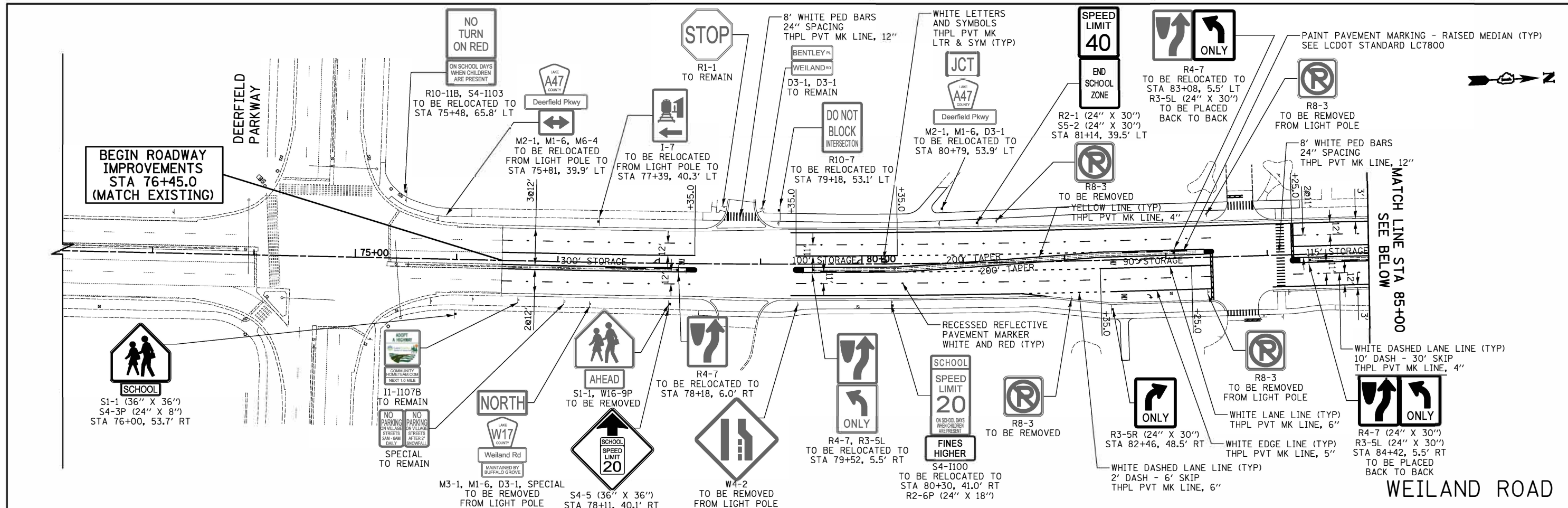


SOUTHEAST CORNER CROSSWALK
APTAKASIC RD. AND INDUSTRIAL DR.



DATE	
BY	
FINAL SURVEY	
SURVEY PLOTTED	
NOTE BOOK	
AREAS CHECKED	

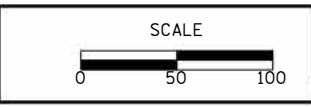
DATE	
BY	
ORIGINAL SURVEY	
SURVEY PLOTTED	
NOTE BOOK	
AREAS CHECKED	



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

DESIGNED - PK	REVISED -
DRAWN - PK	REVISED -
CHECKED - JRV	REVISED -
DATE - 6/10/2019	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**



PAVEMENT MARKING AND SIGNING

SHEET NO. 1 OF 3 SHEETS STA. 75+20.6 TO STA. 97+00.0

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2665	18-00158-13-WR	LAKE	623	216
CONTRACT NO. 61F25				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

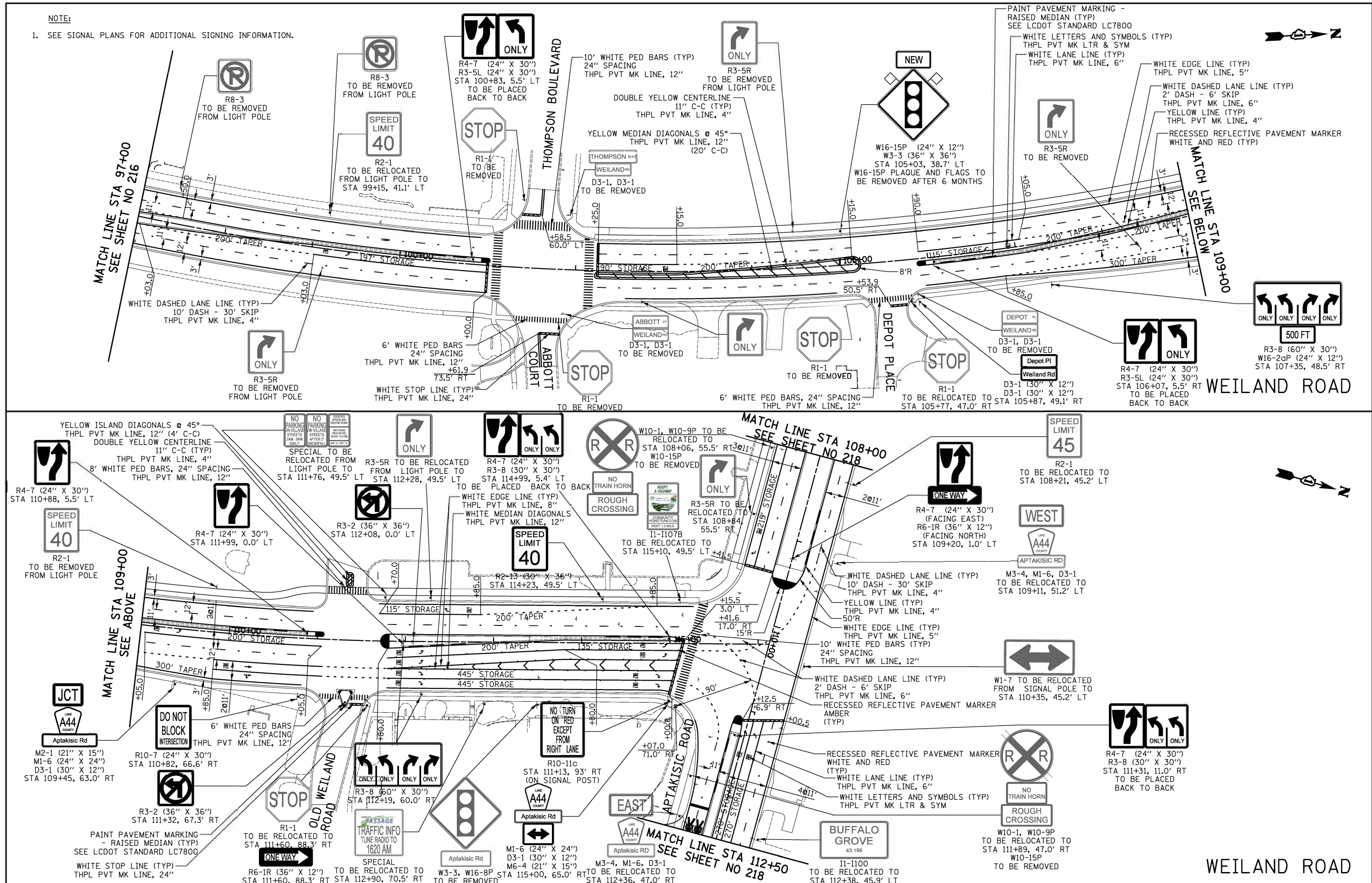
NOTE:
 1. SEE SIGNAL PLANS FOR ADDITIONAL SIGNING INFORMATION.

NOTE:

1. SEE SIGNAL PLANS FOR ADDITIONAL SIGNING INFORMATION.

DATE	
BY	
NO.	
FINAL SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	

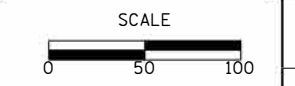
DATE	
BY	
NO.	
ORIGINAL SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	



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

DESIGNED - PK	REVISED -
DRAWN - PK	REVISED -
CHECKED - JRV	REVISED -
DATE - 7/10/2019	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**



PAVEMENT MARKING AND SIGNING

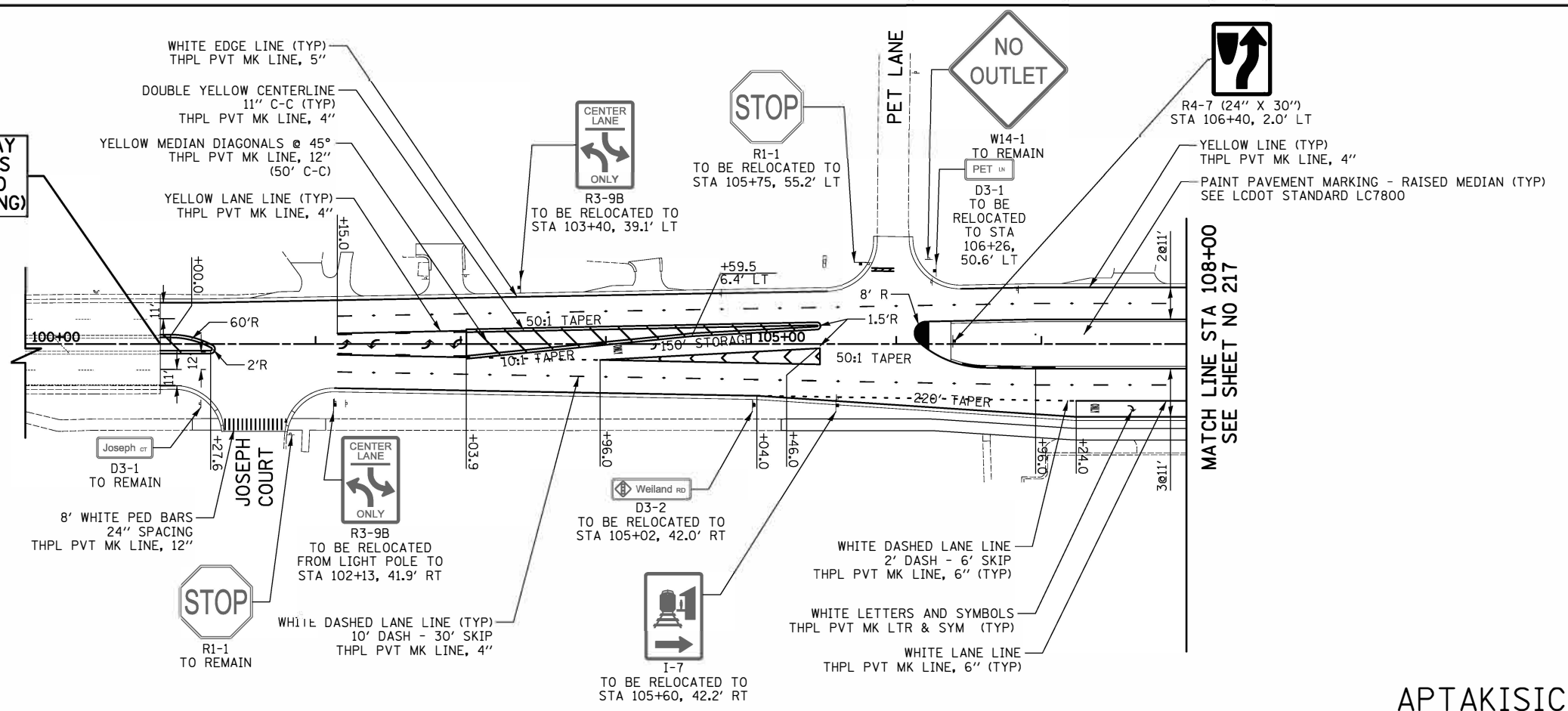
SHEET NO. 2 OF 3 SHEETS STA. 97+00.0 TO STA. 116+12.5

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2665	18-00158-13-WR	LAKE	623	217
CONTRACT NO. 61F25				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

DATE	
BY	
SURVEY	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

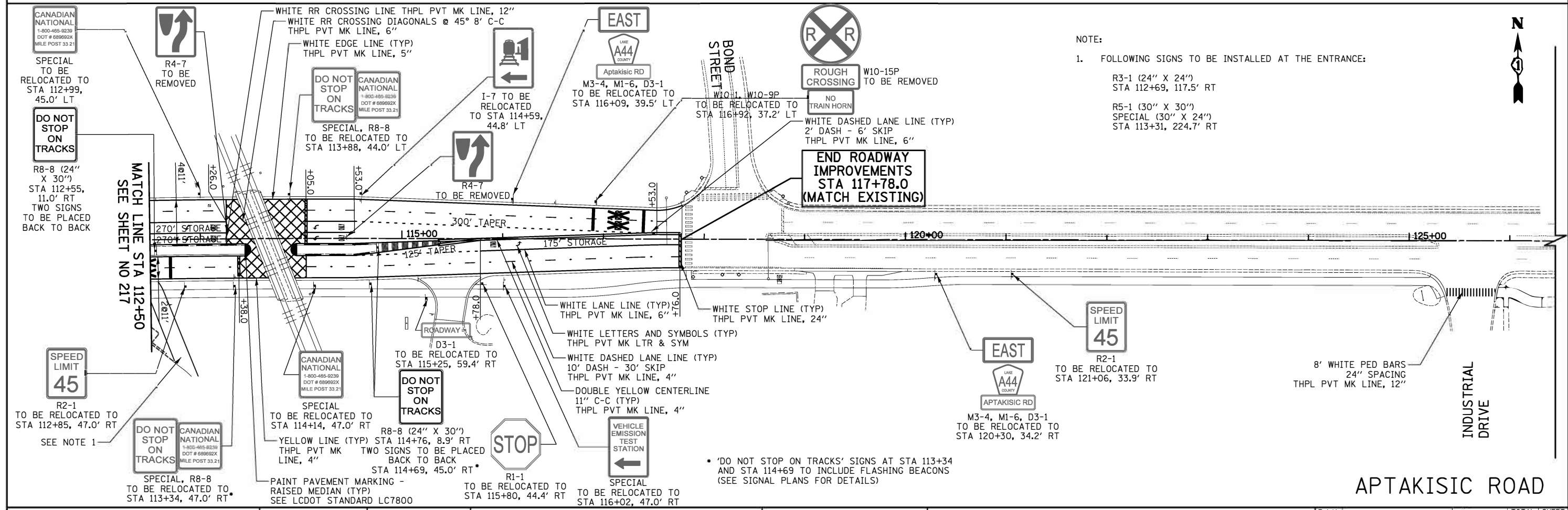
DATE	
BY	
SURVEY	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

BEGIN ROADWAY IMPROVEMENTS STA 100+93.0 (MATCH EXISTING)



NOTE:
1. SEE SIGNAL PLANS FOR ADDITIONAL SIGNING INFORMATION.

APTAKISIC ROAD



NOTE:
1. FOLLOWING SIGNS TO BE INSTALLED AT THE ENTRANCE:
R3-1 (24" X 24") STA 112+69, 117.5' RT
R5-1 (30" X 30") SPECIAL (30" X 24") STA 113+31, 224.7' RT

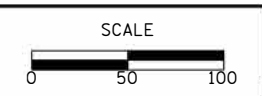
* 'DO NOT STOP ON TRACKS' SIGNS AT STA 113+34 AND STA 114+69 TO INCLUDE FLASHING BEACONS (SEE SIGNAL PLANS FOR DETAILS)

APTAKISIC ROAD

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

DESIGNED - PK	REVISED -
DRAWN - PK	REVISED -
CHECKED - JRV	REVISED -
DATE - 7/10/2019	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**



PAVEMENT MARKING AND SIGNING
SHEET NO. 3 OF 3 SHEETS STA. 100+93.0 TO STA. 126+03.9

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2665	18-00158-13-WR	LAKE	623	218
CONTRACT NO. 61F25				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

TRAFFIC SIGNAL LEGEND

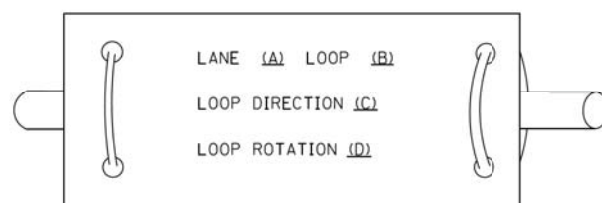
(NOT TO SCALE)

ITEM	EXISTING	PROPOSED	ITEM	EXISTING	PROPOSED	ITEM	EXISTING	PROPOSED
CONTROLLER CABINET			HANDHOLE -SQUARE -ROUND	 	 	SIGNAL HEAD -(P) PROGRAMMABLE SIGNAL HEAD		
COMMUNICATION CABINET			HEAVY DUTY HANDHOLE -SQUARE -ROUND	 	 	SIGNAL HEAD WITH BACKPLATE -(P) PROGRAMMABLE SIGNAL HEAD -(RB) RETROREFLECTIVE BACKPLATE	 	
MASTER CONTROLLER			DOUBLE HANDHOLE			PEDESTRIAN SIGNAL HEAD AT RAILROAD INTERSECTIONS		
MASTER MASTER CONTROLLER			JUNCTION BOX			PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN TIMER		
UNINTERRUPTABLE POWER SUPPLY			RAILROAD CANTILEVER MAST ARM			ILLUMINATED SIGN "NO LEFT TURN"/"NO RIGHT TURN"		
SERVICE INSTALLATION -(P) POLE MOUNTED			RAILROAD FLASHING SIGNAL			NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE. ALL DETECTOR LOOP CABLE TO BE SHIELDED		
SERVICE INSTALLATION -(G) GROUND MOUNTED -(GM) GROUND MOUNTED METEFED	 	 	RAILROAD CROSSING GATE			GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)		
TELEPHONE CONNECTION			RAILROAD CROSSBUCK			ELECTRIC CABLE IN CONDUIT, TRACER NO. 14 1/C		
STEEL MAST ARM ASSEMBLY AND POLE			RAILROAD CONTROLLER CABINET			COAXIAL CABLE		
ALUMINUM MAST ARM ASSEMBLY AND POLE			UNDERGROUND CONDUIT (UC), GALVANIZED STEEL			VENDOR CABLE		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE			TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE			COPPER INTERCONNECT CABLE, NO. 18, 3 PAIR TWISTED, SHIELDED		
SIGNAL POST -(BM) BARREL MOUNTED - TEMPORARY			SYSTEM ITEM			FIBER OPTIC CABLE -NO. 62.5/125, MM12F -NO. 62.5/125, MM12F SN12F -NO. 62.5/125, MM12F SN24F	 	
WOOD POLE			INTERSECTION ITEM			GROUND ROD -(C) CONTROLLER -(M) MAST ARM -(P) POST -(S) SERVICE	 	
GUY WIRE			REMOVE ITEM					
SIGNAL HEAD			RELOCATE ITEM					
SIGNAL HEAD WITH BACKPLATE			ABANDON ITEM					
SIGNAL HEAD OPTICALLY PROGRAMMED			CONTROLLER CABINET AND FOUNDATION TO BE REMOVED					
FLASHER INSTALLATION -(FS) SOLAR POWERED	 	 	MAST ARM POLE AND FOUNDATION TO BE REMOVED					
PEDESTRIAN SIGNAL HEAD			SIGNAL POST AND FOUNDATION TO BE REMOVED					
PEDESTRIAN PUSH BUTTON -(APS) ACCESSIBLE PEDESTRIAN PUSH BUTTON			DETECTOR LOOP, TYPE I					
RADAR DETECTION SENSOR			PREFORMED DETECTOR LOOP					
VIDEO DETECTION CAMERA			SAMPLING (SYSTEM) DETECTOR					
RADAR/VIDEO DETECTION ZONE			INTERSECTION AND SAMPLING (SYSTEM) DETECTOR					
PAN. TILT. ZOOM (PTZ) CAMERA			QUEUE AND SAMPLING (SYSTEM) DETECTOR					
EMERGENCY VEHICLE LIGHT DETECTOR			WIRELESS DETECTOR SENSOR					
CONFIRMATION BEACON			WIRELESS ACCESS POINT					
WIRELESS INTERCONNECT								
WIRELESS INTERCONNECT RADIO REPEATER								

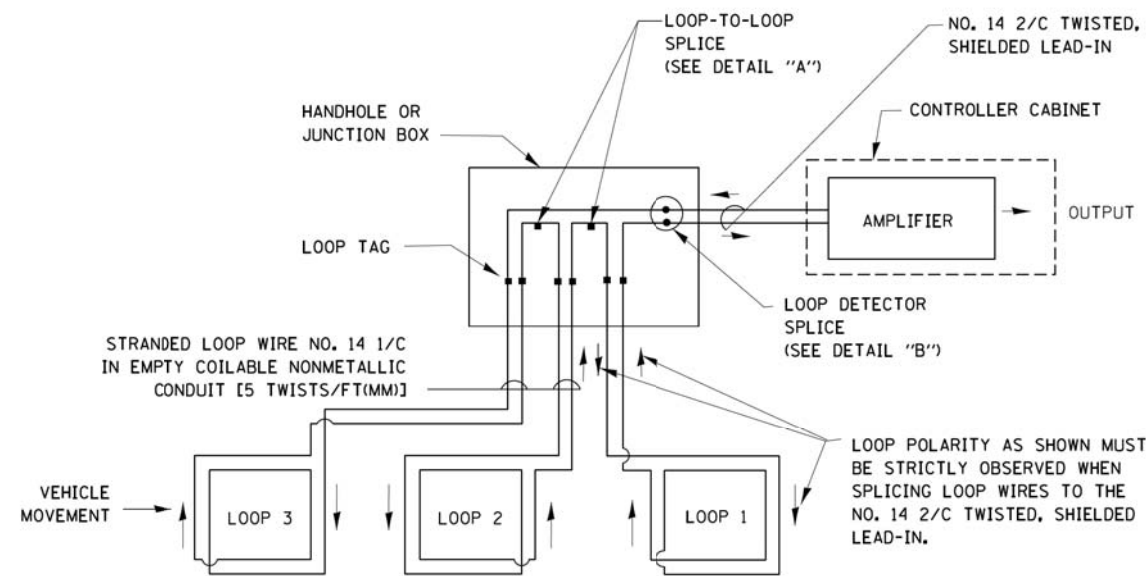
LOOP DETECTOR NOTES

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

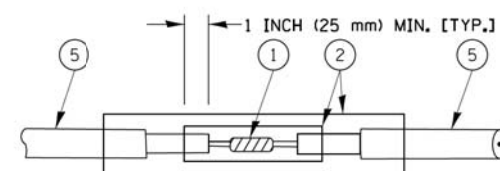


- LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

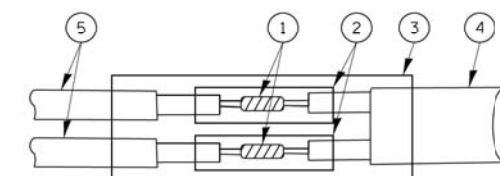


DETECTOR LOOP WIRING SCHEMATIC

- 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.

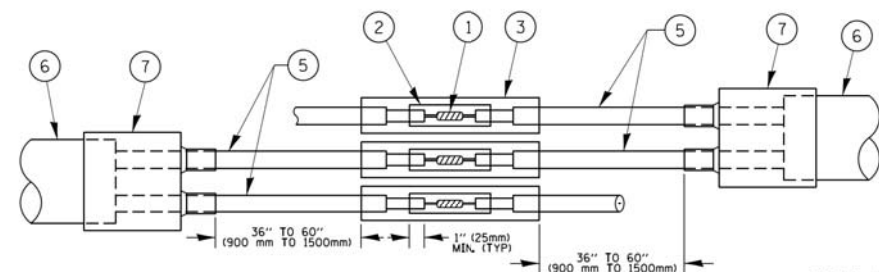


DETAIL "A"
LOOP-TO-LOOP SPLICE

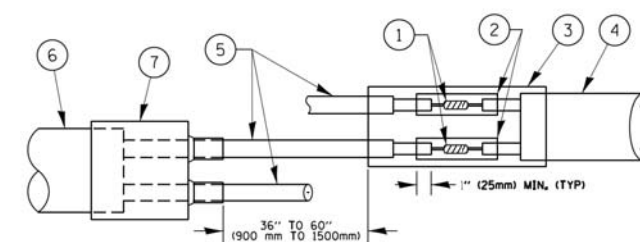


DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP



DETAIL "A"
LOOP-TO-LOOP SPLICE



DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

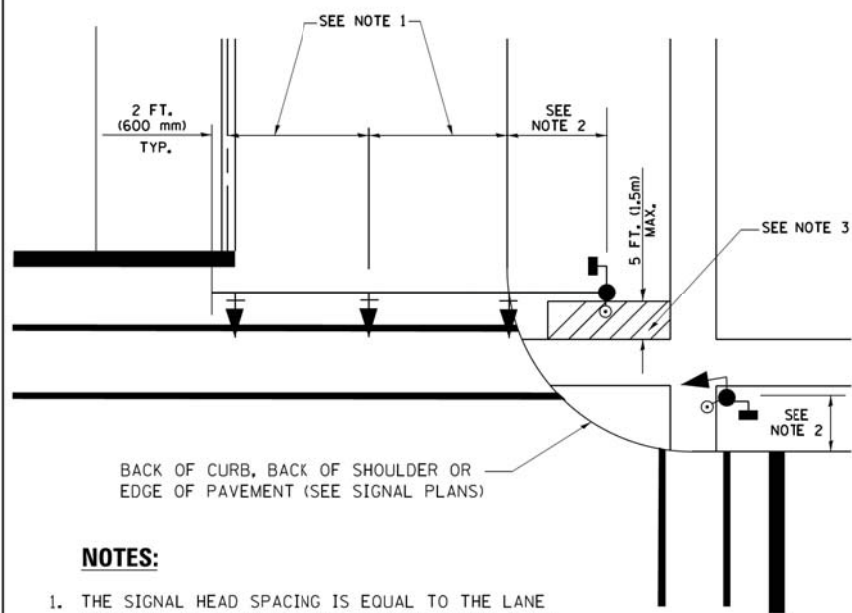
PRE-FORMED LOOP

LOOP DETECTOR SPLICE

- WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH. THE WESTERN UNION SPLICES SHALL BE STAGGERED.
- WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGTH 6" (150 mm), UNDERWATER GRADE.
- NO. 14 2/C TWISTED, SHIELDED CABLE.
- LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.
- PRE-FORMED LOOP
- XL POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS. TYCO-CBR-2 OR APPROVED EQUAL

FILE NAME =	USER NAME = footemj	DESIGNED - DAD	REVISED - DAG 1-1-14	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ct:\pw\work\p\tdot\footemj\40108315\ts05.dgn		DRAWN - BCK	REVISED -		SCALE: NONE	SHEET NO. 2 OF 7 SHEETS	STA.	TO STA.	2665	18-00158-13-WR	LAKE	623	220
		CHECKED - DAD	REVISED -					TS-05		CONTRACT NO. 61F25			
		DATE - 10-28-09	REVISED -		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT								

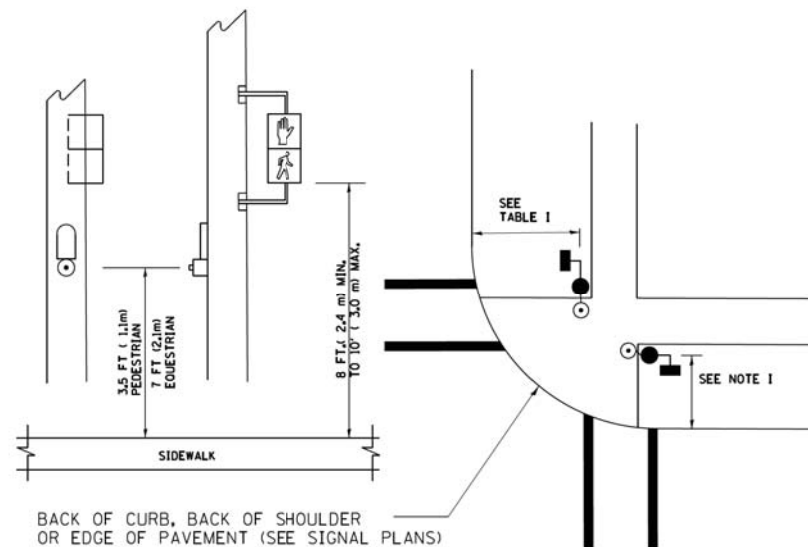
**TRAFFIC SIGNAL MAST ARM AND SIGNAL POST
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR
FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN
WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.**



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."

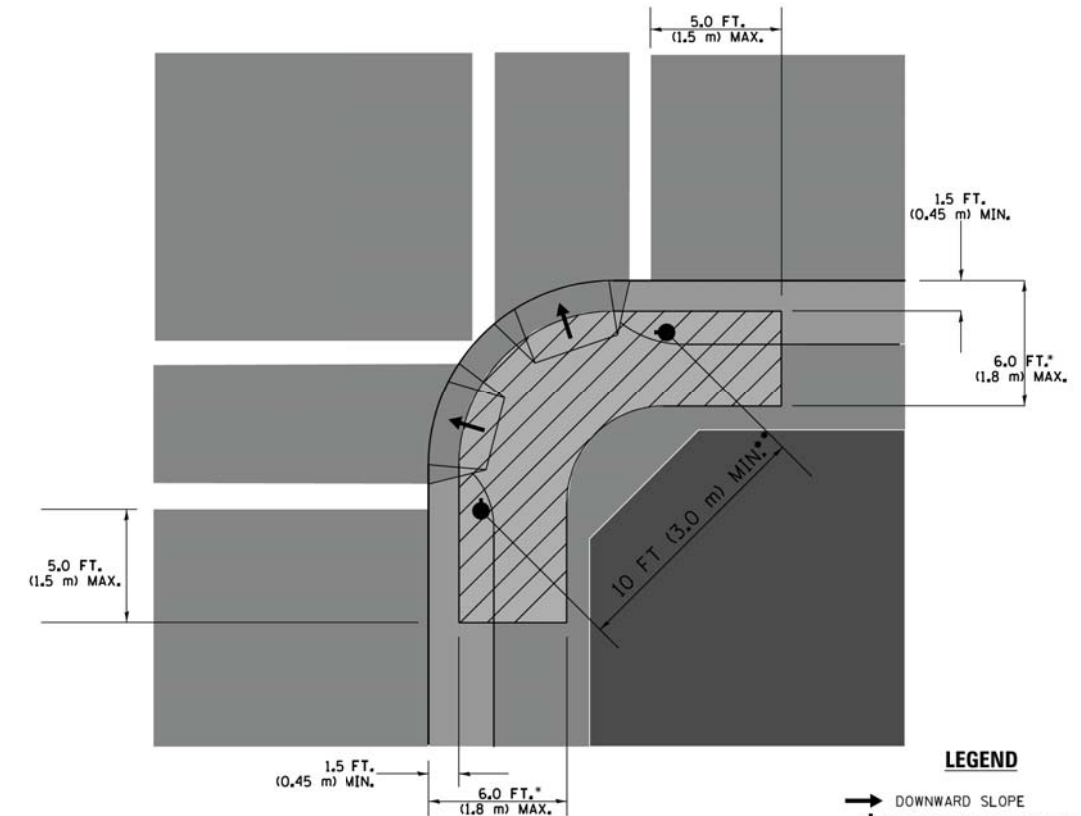
**PEDESTRIAN SIGNAL POST
AND
PEDESTRIAN PUSH BUTTON POST**



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



LEGEND

- DOWNWARD SLOPE
- PEDESTRIAN PUSHBUTTON
- ▨ 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) SEPARATION BETWEEN THE TWO PEDESTRIAN PUSHBUTTONS, THE PUSHBUTTONS MAY BE PLACED CLOSER TOGETHER OR ON THE SAME POLE.

NOTES:

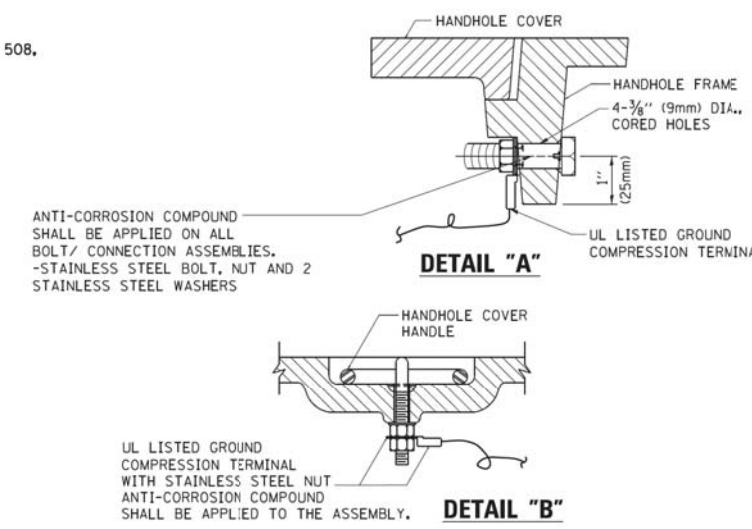
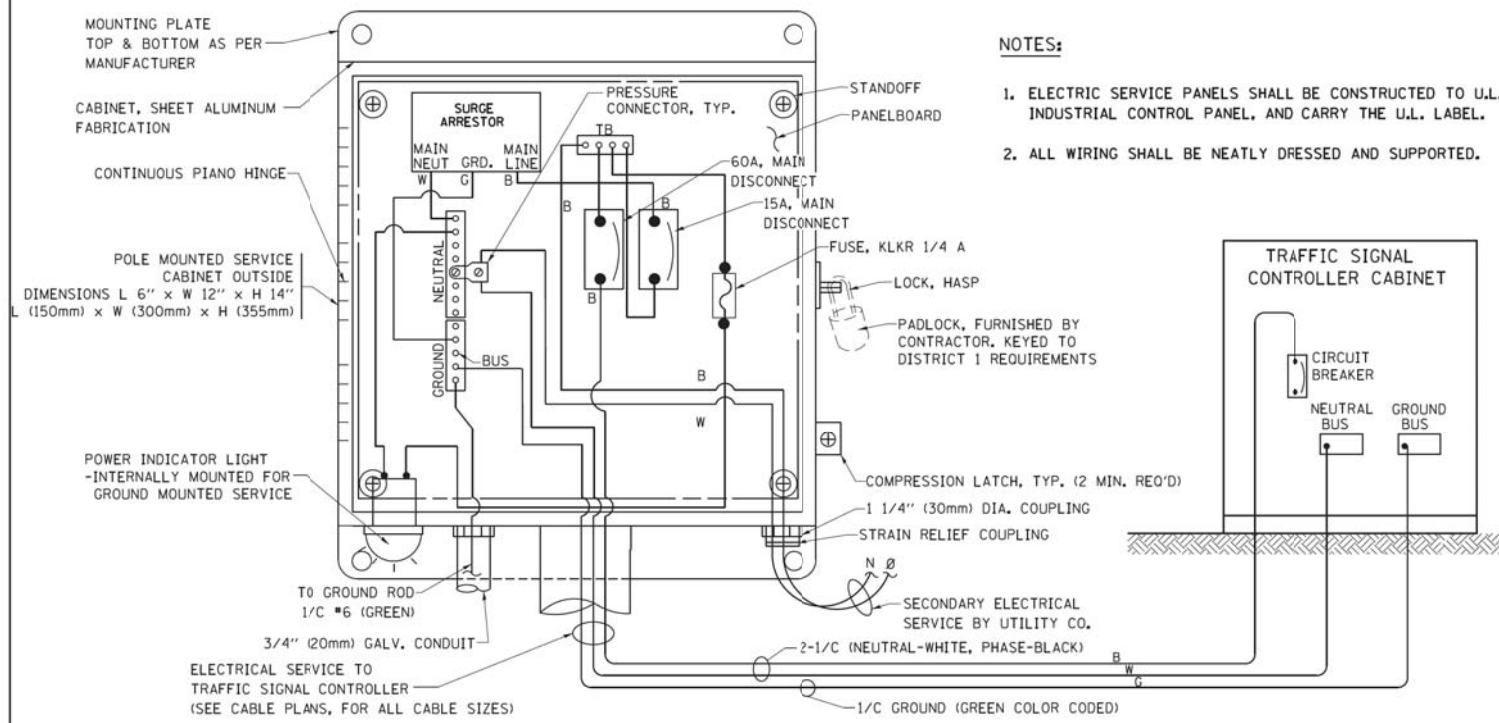
1. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 8 FT (2.4 m) OR MORE THAN 10 FT (3 m) ABOVE SIDEWALK LEVEL, AND SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.
2. THE BOTTOM 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

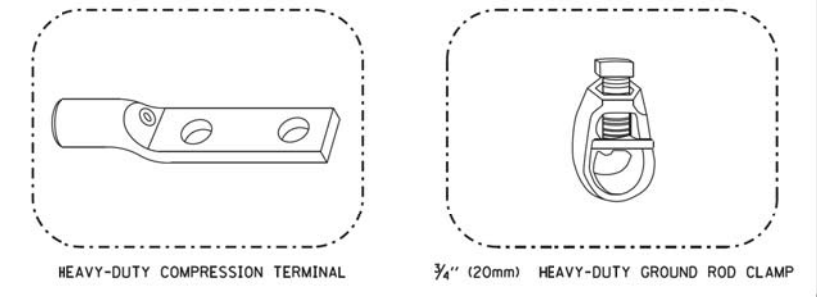
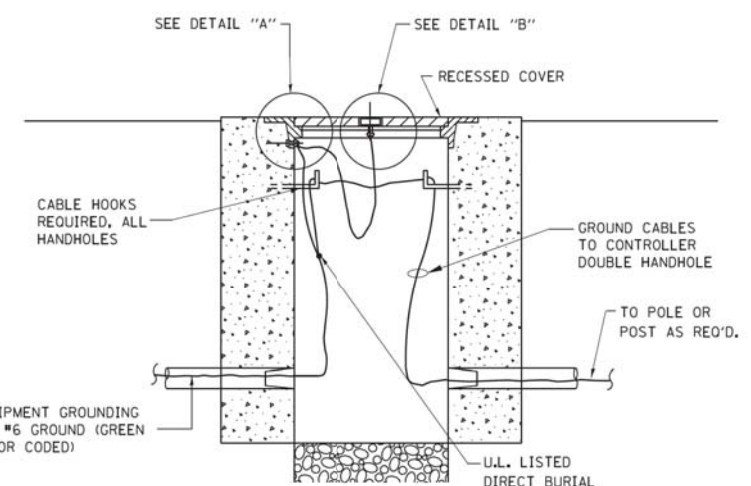
TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10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

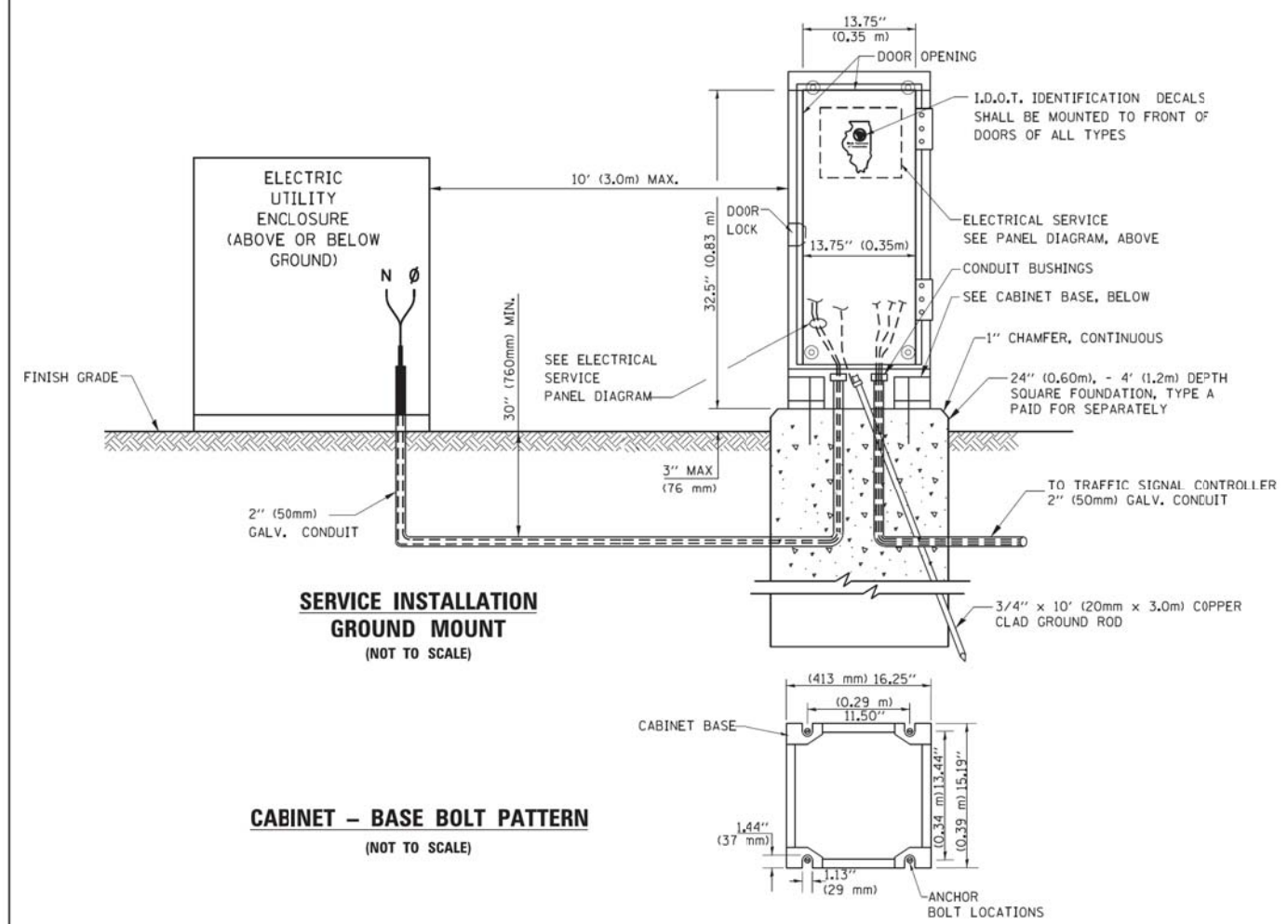
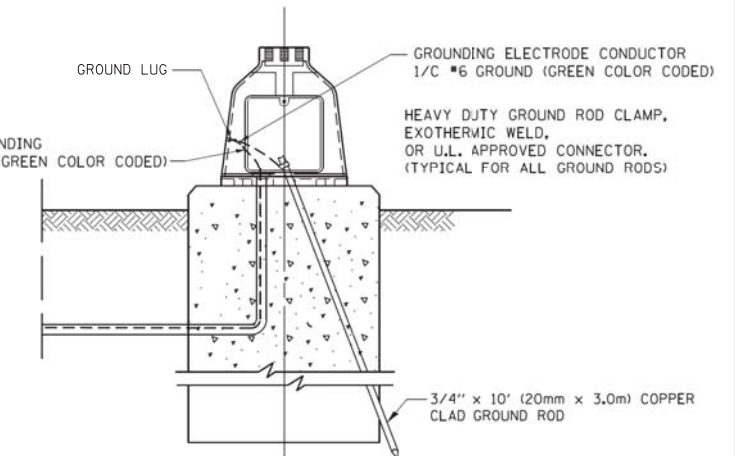
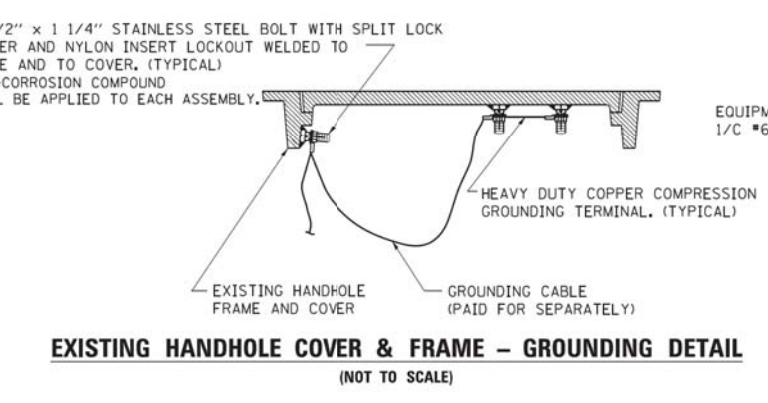
1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
3. MINIMUM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



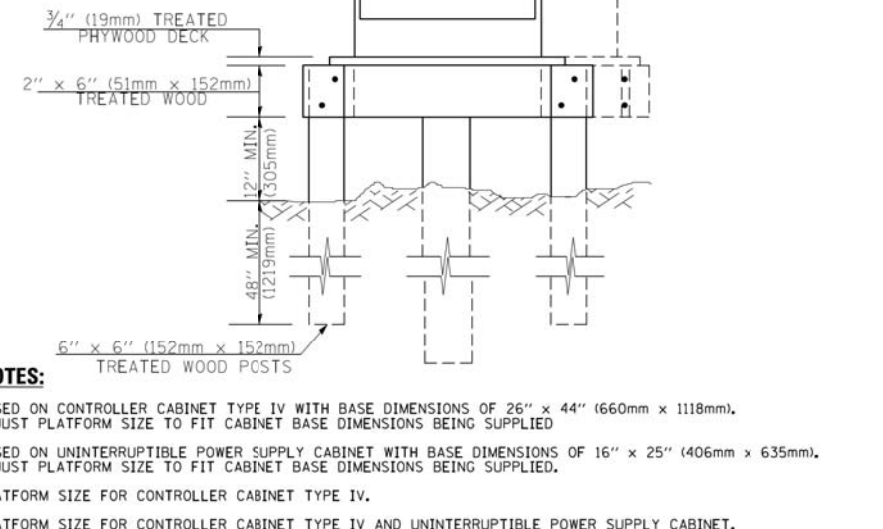
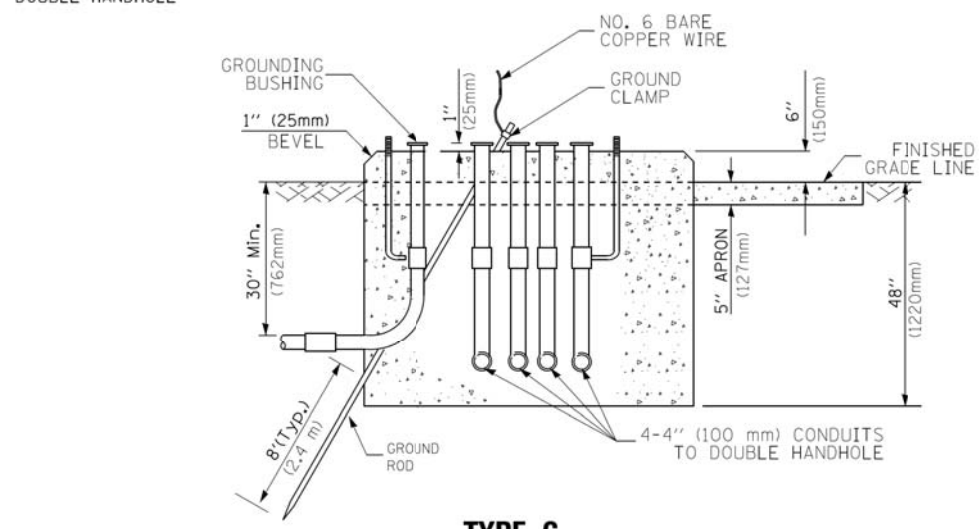
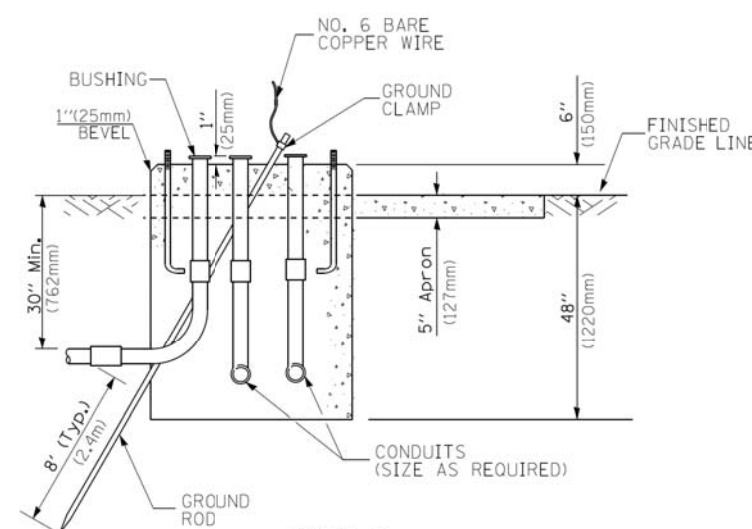
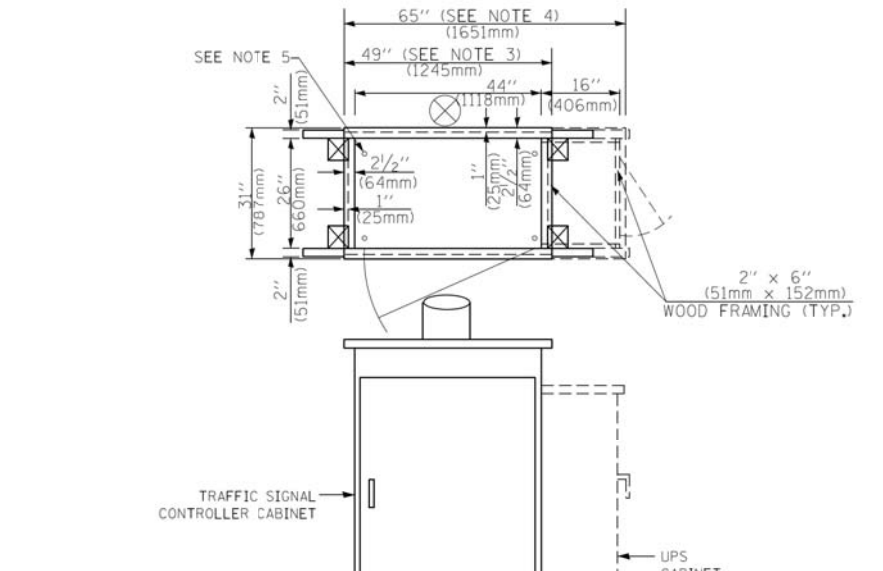
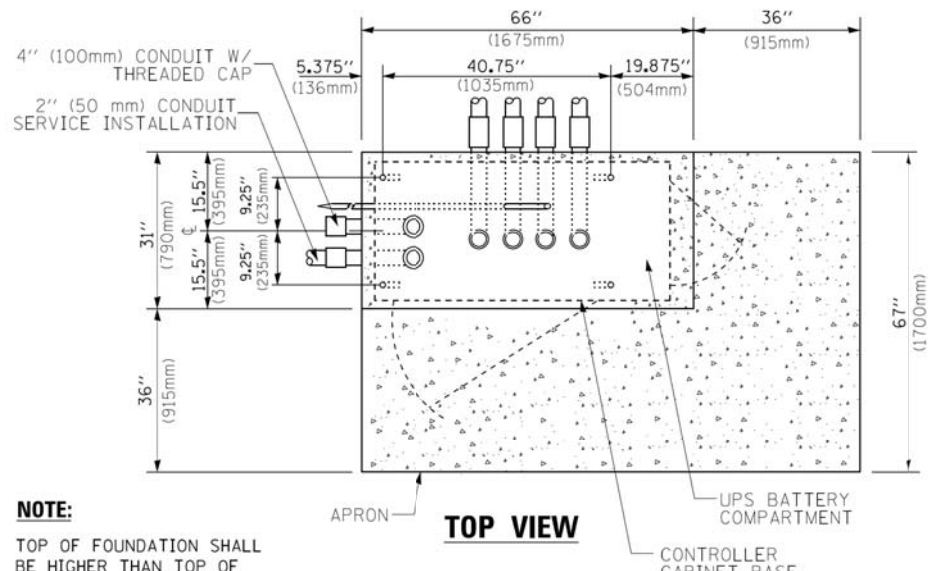
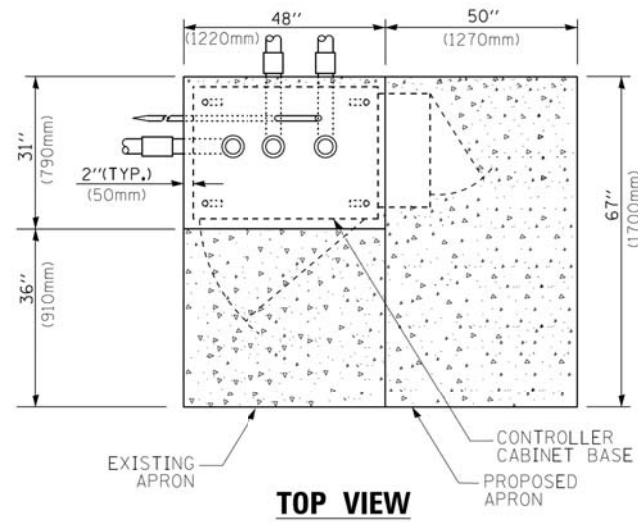
- NOTES:**
- GROUNDING SYSTEM**
- THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR TYPE XLP, NO. 6 A.W.G., STRANDED COPPER TO BE INSTALLED IN RACEWAYS. THE GROUNDING CABLE SHALL BE INSTALLED IN A CONTINUOUS MANNER AS SHOWN ON THE CABLE PLAN PROVIDED. ALL GROUNDING CONDUCTORS SHALL BE BONDED 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.
 - 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.
 - ALL EQUIPMENT GROUNDING CONDUCTORS SHALL TERMINATE AT THE GROUND BUS IN THE CONTROLLER CABINET.
 - THE CONTRACTOR SHALL PROVIDE A GROUND CABLE WITH CONNECTORS BETWEEN THE HANDHOLE COVER AND HANDHOLE FRAME.



- 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.



FILE NAME =	USER NAME = footemj	DESIGNED - DAD	REVISED - DAG 1-1-14	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ct:\pw\work\p\sidot\Footemj\d0108315\ts05.dgn		DRAWN - BCK	REVISED -		SCALE: NONE	SHEET NO. 4 OF 7 SHEETS	STA.	TO STA.	2665	18-00158-13-WR	LAKE	623	222
PLOT SCALE = 58.0000 / 1 in.		CHECKED - DAD	REVISED -						TS-05		CONTRACT NO.	61F25	
PLOT DATE = 1/13/2014		DATE - 10-28-09	REVISED -						FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



NOTES:

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

TEMPORARY SIGNAL CONTROLLER WOOD SUPPORT PLATFORM

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

CABLE SLACK

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

VERTICAL CABLE LENGTH

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

DEPTH OF FOUNDATION

MAST ARM LENGTH	① FOUNDATION DEPTH	FOUNDATION DIAMETER	SPIRAL DIAMETER	QUANTITY OF REBARS	SIZE OF REBARS
Less than 30' (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 30' (9.1 m) and less than 40' (12.2 m)	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
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:

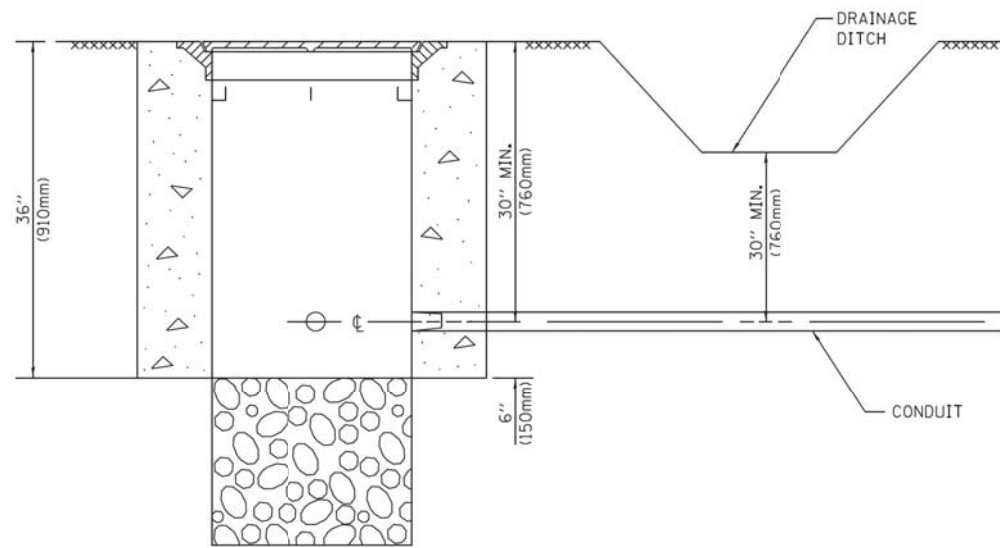
1. These foundation depths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along the length of the shaft, with an average unconfined compressive strength (qu) > 1.0 tsf (100 kpa). This strength shall be verified by boring data prior to construction or with testing by the Engineer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

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

FILE NAME =	USER NAME = footemj	DESIGNED - DAG	REVISED - DAG 1-1-14
ct:\pw\work\p1dot\Footemj\00108315\ts05.dgn		DRAWN - BCK	REVISED -
PLOT SCALE = 50.0000 ' / in.		CHECKED - DAD	REVISED -
PLOT DATE = 1/13/2014		DATE - 10-28-09	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

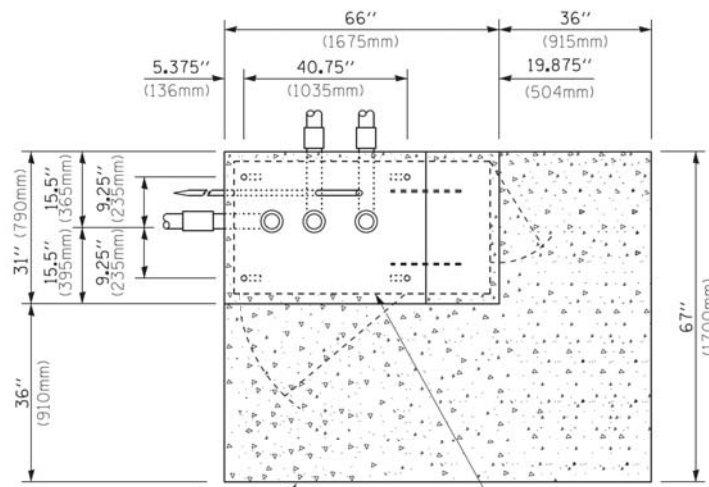
DISTRICT ONE		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
STANDARD TRAFFIC SIGNAL DESIGN DETAILS		2665	18-00158-13-WR	LAKE	623	223
SCALE: NONE		SHEET NO. 5 OF 7 SHEETS		STA.	TO STA.	
		TS-05		CONTRACT NO. 61F25		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT						



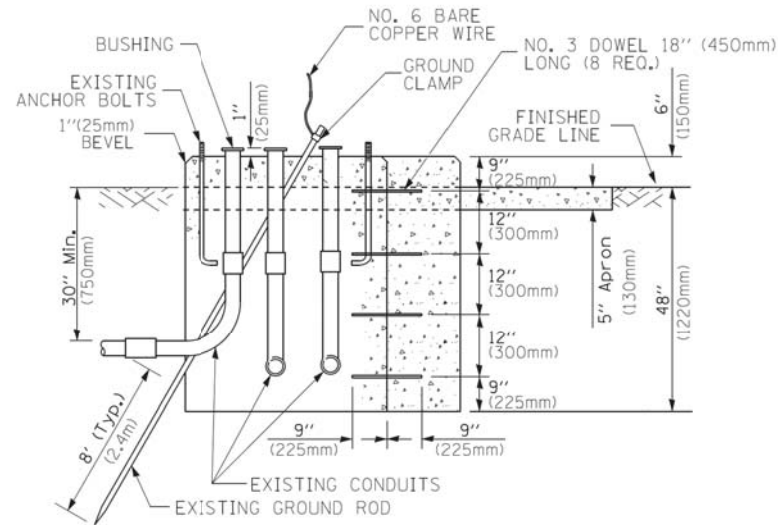
NOTES:

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

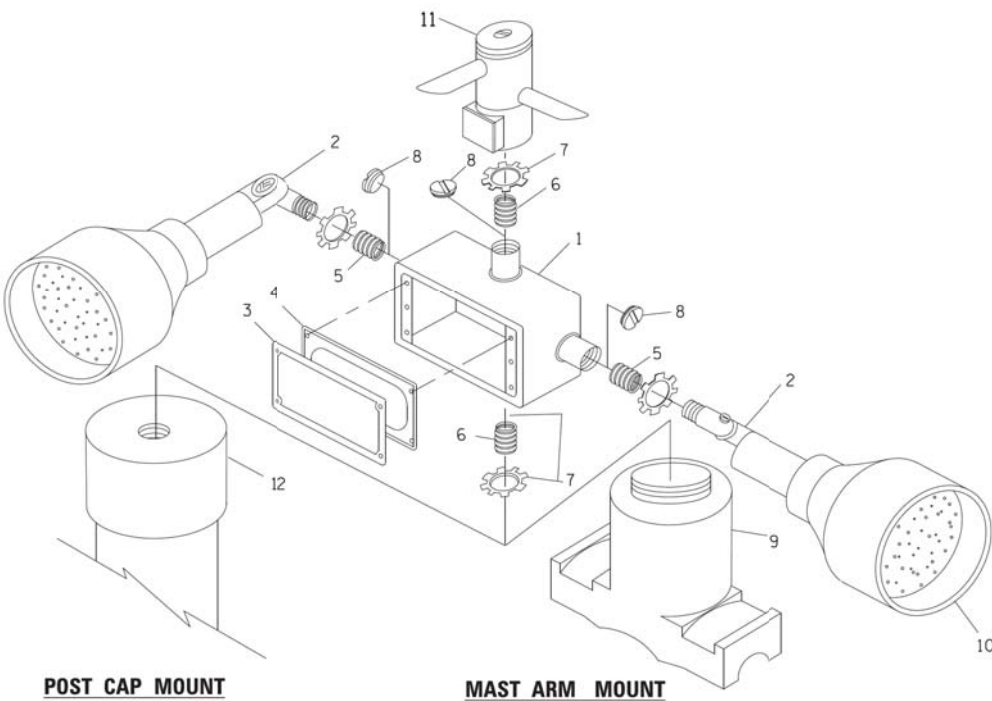


**MODIFY EXISTING TYPE "D" FOUNDATION
TO TYPE "C" FOUNDATION
(NOT TO SCALE)**

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:

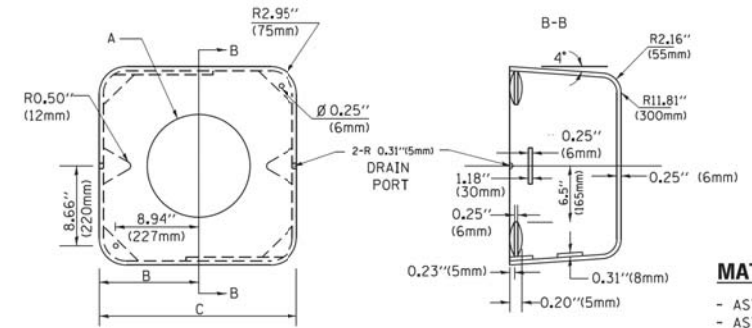
- ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
- WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED. THE DETECTION UNIT SHALL BE MOUNTED DIRECTLY ON TOP OF THE CAP BY DRILLING AND TAPPING A 3/4" (19 mm) HOLE WITH PIPE THREADS. THE POST CAP SHALL EITHER BE SCREWED TO THE TOP OF THE POST OR A MINIMUM OF 3 TIGHTENING SCREWS SHALL BE REQUIRED ON EACH CAP.



POST CAP MOUNT

MAST ARM MOUNT

EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL



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

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

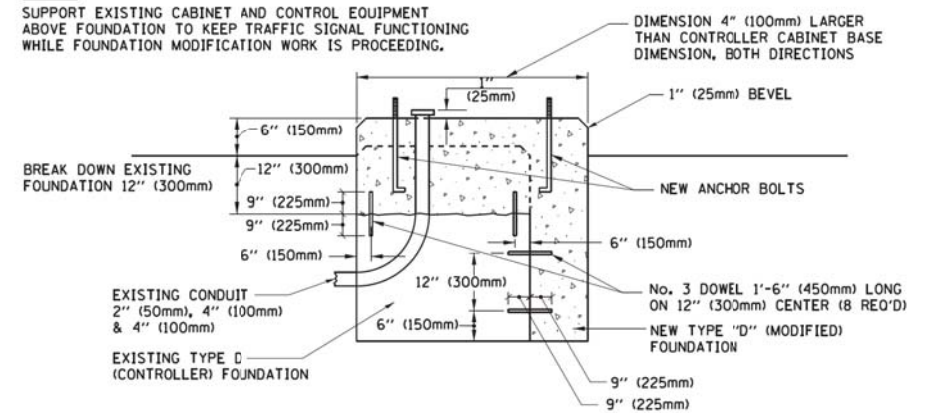
SHROUD

NOTES:

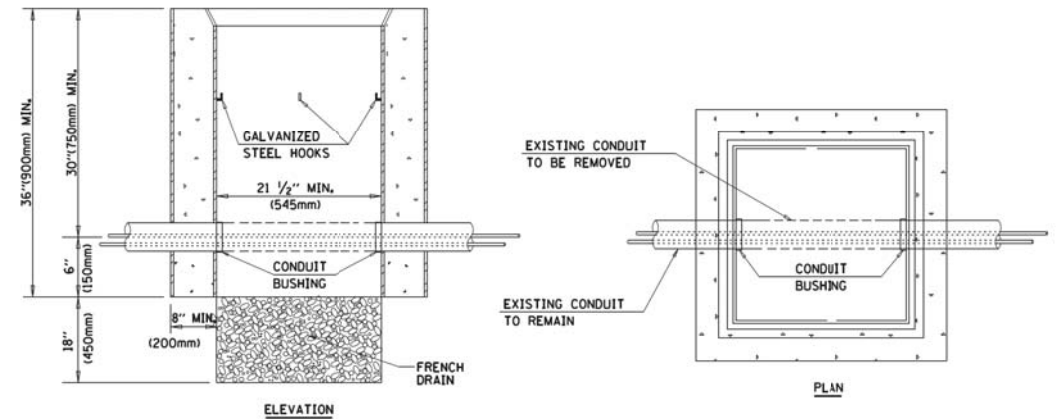
- DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
- THE SUPPLIER SHALL VERIFIED THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
- THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.

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



NOTES:

- HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
- 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

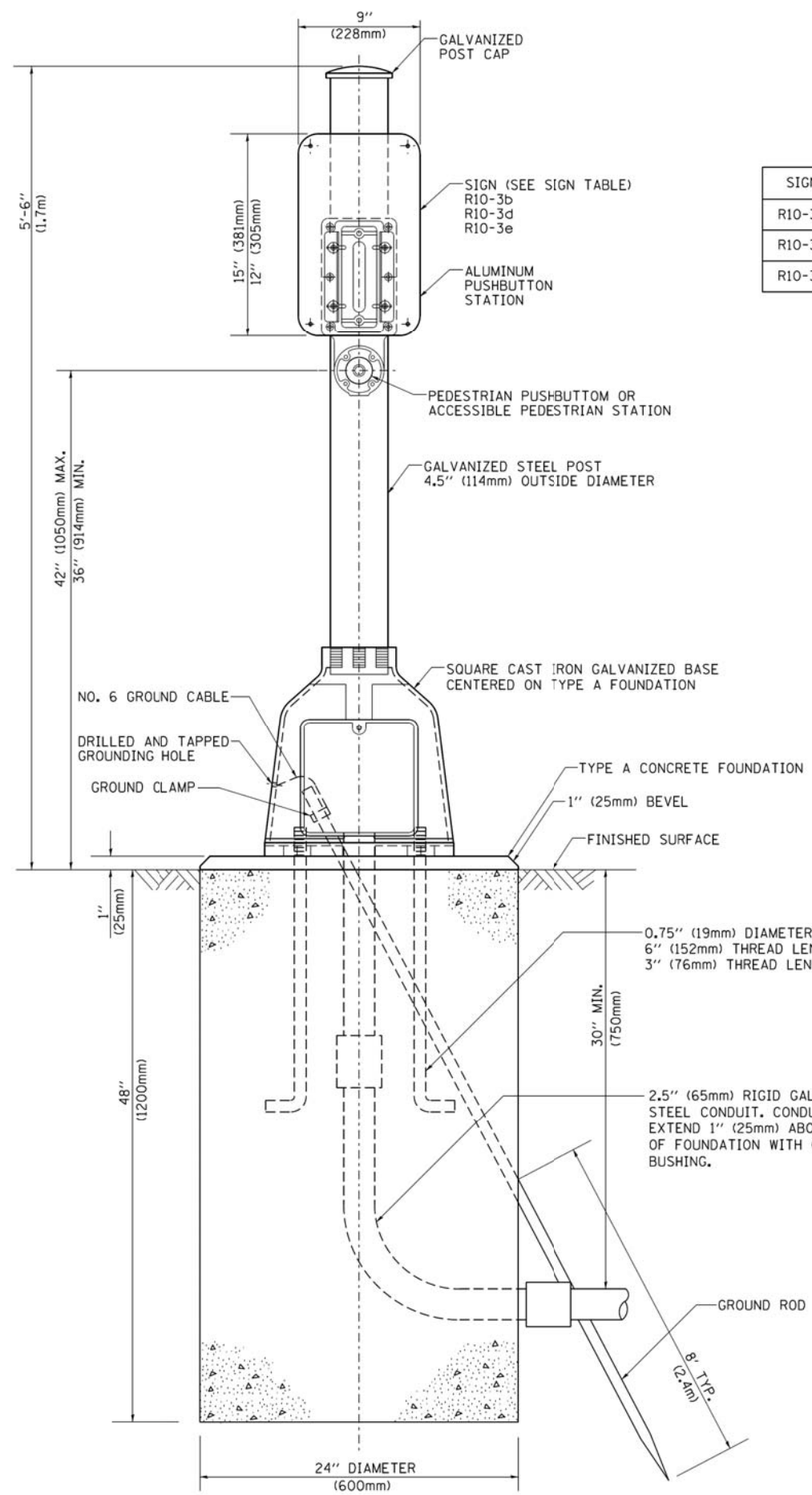
FILE NAME =	USER NAME = footemj	DESIGNED - DAD	REVISED - DAG 1-1-14
ct:\pw\work\p\pidot\Footemj\d0108315\ts05.dgn		DRAWN - BCK	REVISED -
	PLOT SCALE = 58.0000 ' / in.	CHECKED - DAD	REVISED -
	PLOT DATE = 1/13/2014	DATE - 10-28-09	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

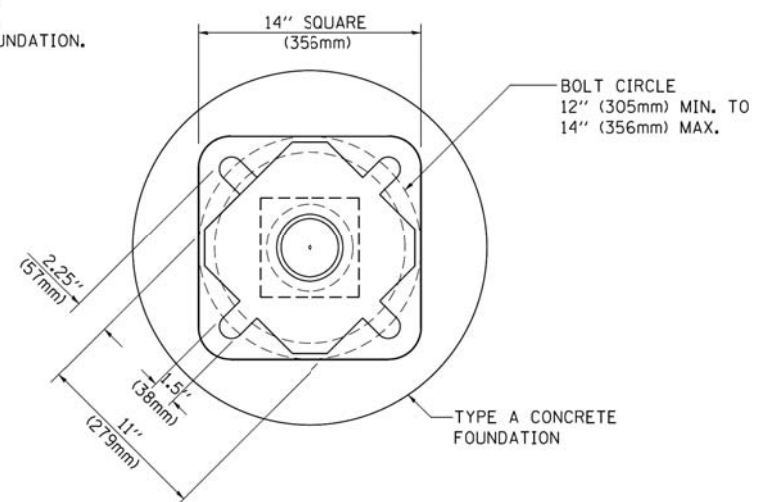
SCALE: NONE SHEET NO. 6 OF 7 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2665	18-00158-13-WR	LAKE	623	224
TS-05		CONTRACT NO.	61F25	
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT				



SIGN TABLE

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



BOLT PATTERN
PEDESTRIAN PUSH BUTTON POST, TYPE A

FILE NAME =	USER NAME = footemj	DESIGNED - DAG	REVISED - DAG 1-1-14
ct:\pw\work\p\dot\footemj\d0108315\ts05.dgn		DRAWN - GND	REVISED -
	PLOT SCALE = 50.0000' / 1"	CHECKED - DAD	REVISED -
	PLOT DATE = 1/13/2014	DATE - 10/1/2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE SHEET NO. 7 OF 7 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2665	18-00158-13-WR	LAKE	623	225
TS-05			CONTRACT NO. 61F25	
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT				

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
FINAL SURVEY NOTE BOOK NO.	



ALL DIMENSIONS SHOWN IN INCHES

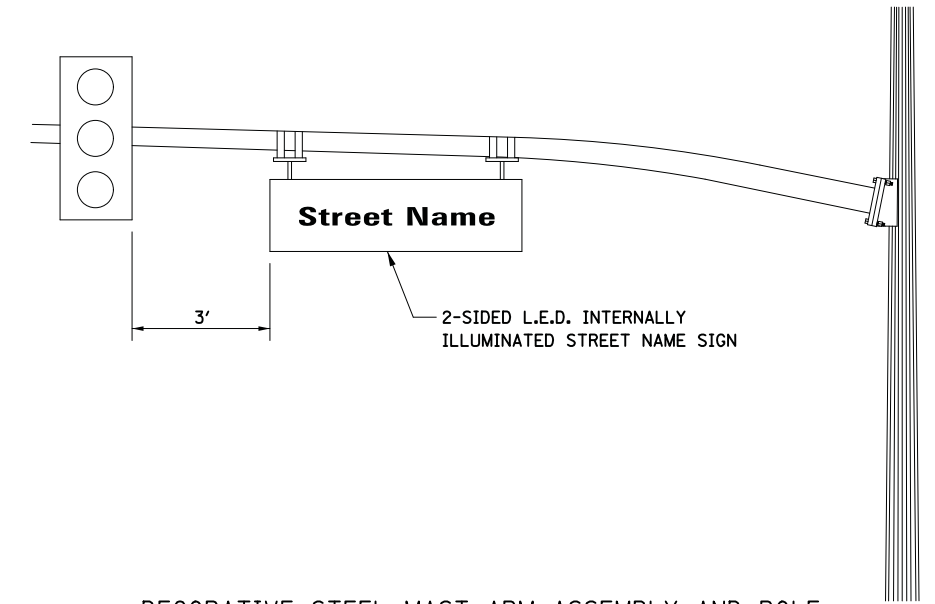
9.0 SQ. FT. EACH

6 REQUIRED

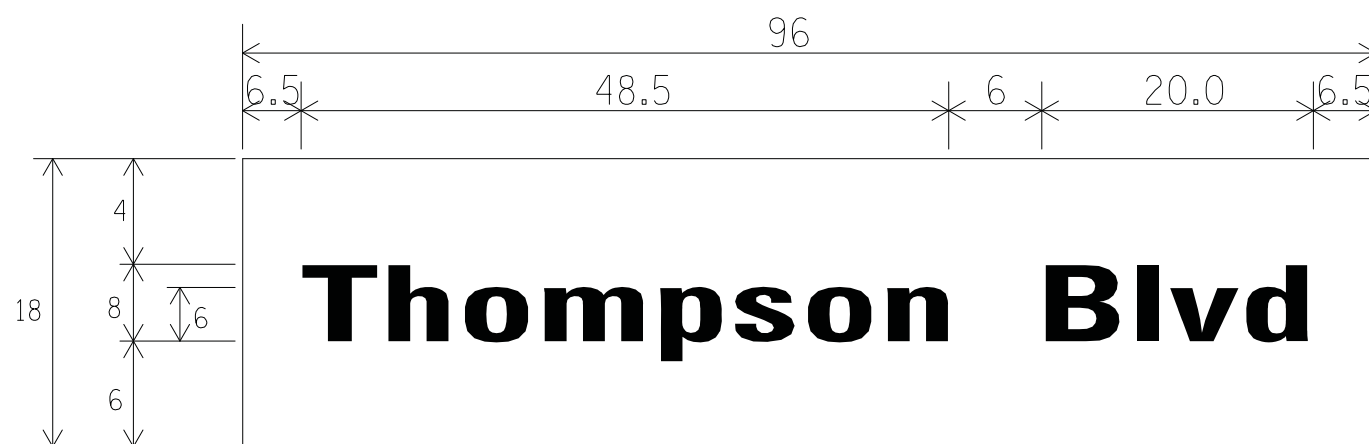
SINGLE SIDED REQUIRED

DOUBLE SIDED REQUIRED

DESIGN SERIES D



DECORATIVE STEEL MAST ARM ASSEMBLY AND POLE



ALL DIMENSIONS SHOWN IN INCHES

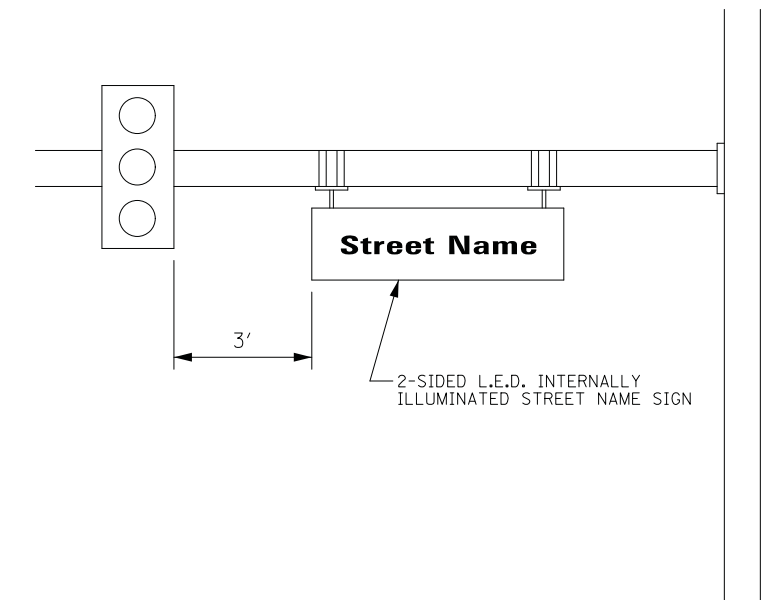
12.0 SQ. FT. EACH

1 REQUIRED

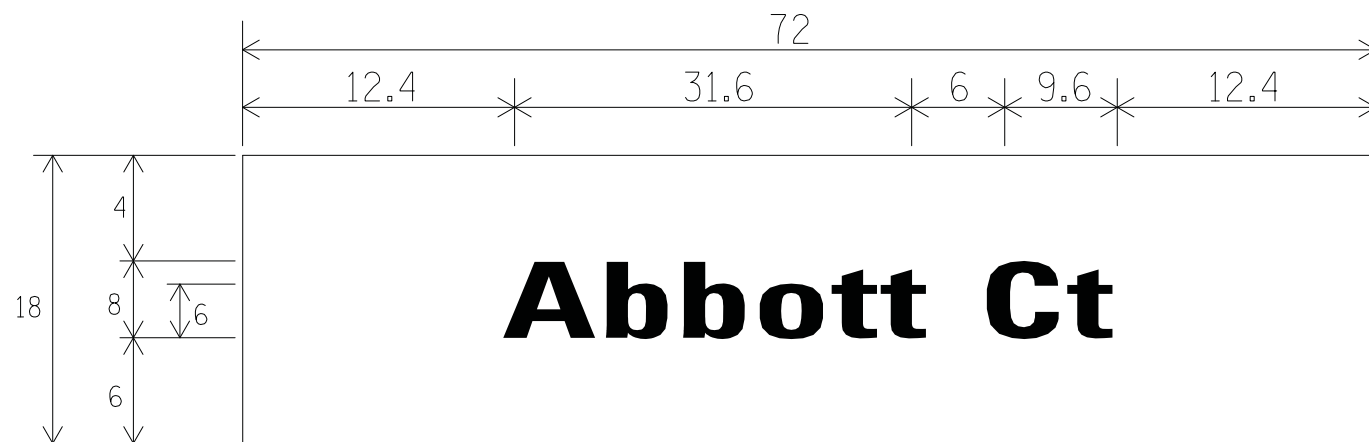
SINGLE SIDED REQUIRED

DOUBLE SIDED REQUIRED

DESIGN SERIES D



REGULAR STEEL MAST ARM ASSEMBLY AND POLE



ALL DIMENSIONS SHOWN IN INCHES

9.0 SQ. FT. EACH

1 REQUIRED

SINGLE SIDED REQUIRED

DOUBLE SIDED REQUIRED

DESIGN SERIES D

NOTE: L.E.D. ILLUMINATED STREET NAME SIGNS
MAY ONLY BE AVAILABLE IN 2 FOOT INCREMENTS.

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
ORIGINAL SURVEY NOTE BOOK NO.	



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

DESIGNED - SJC	REVISED -
DRAWN - SJC	REVISED -
CHECKED - DNM	REVISED -
DATE - 7/10/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAST ARM MOUNTED STREET NAME SIGNS
WEILAND ROAD, DEERFIELD PARKWAY TO APTAKISIC ROAD

NOT TO SCALE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2665	18-00158-13-WR	LAKE	623	226
CONTRACT NO. 61F25				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
FINIAL SURVEY	
NOTE BOOK	
NO.	



ALL DIMENSIONS SHOWN IN INCHES

Aptakistic Rd

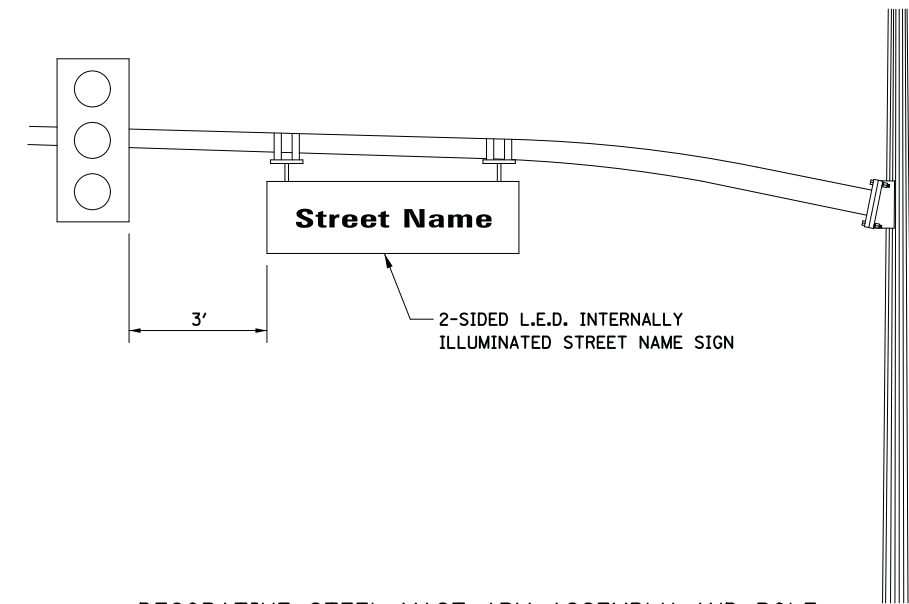
9.0 SQ. FT. EACH

2 REQUIRED

X SINGLE SIDED REQUIRED

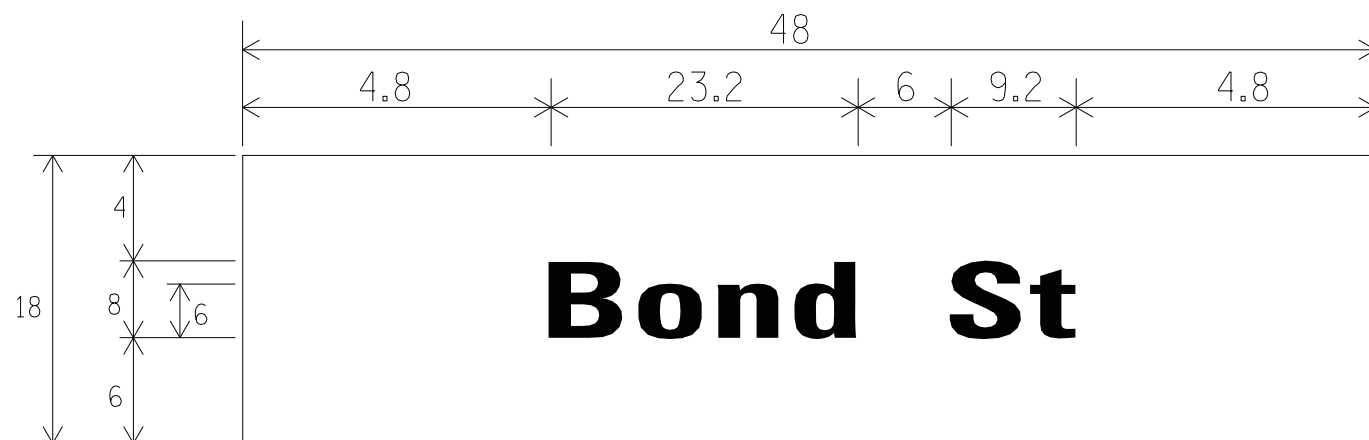
DOUBLE SIDED REQUIRED

DESIGN SERIES D



DECORATIVE STEEL MAST ARM ASSEMBLY AND POLE

2-SIDED L.E.D. INTERNALLY ILLUMINATED STREET NAME SIGN



ALL DIMENSIONS SHOWN IN INCHES

Bond St

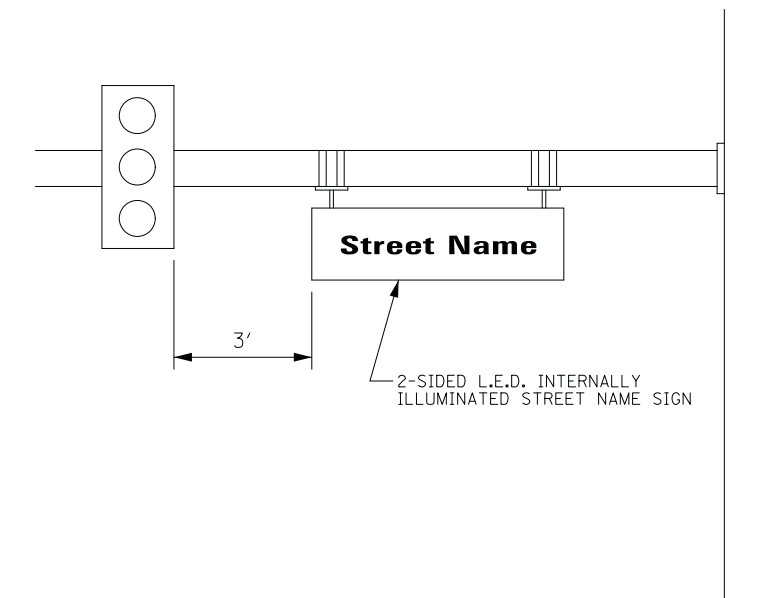
6.0 SQ. FT. EACH

2 REQUIRED

SINGLE SIDED REQUIRED

X DOUBLE SIDED REQUIRED

DESIGN SERIES D



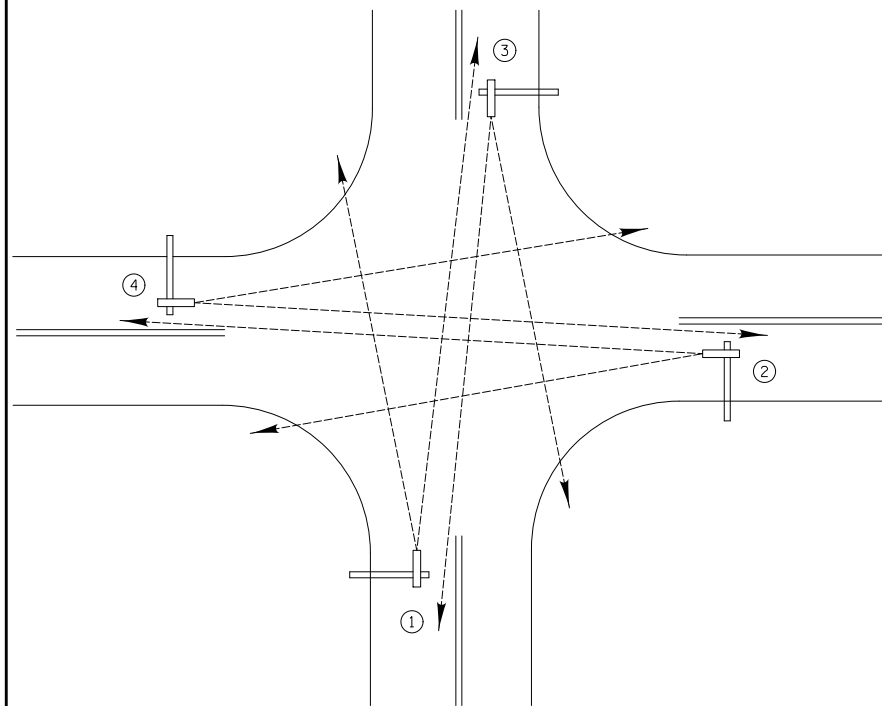
REGULAR STEEL MAST ARM ASSEMBLY AND POLE

2-SIDED L.E.D. INTERNALLY ILLUMINATED STREET NAME SIGN

NOTE: L.E.D. ILLUMINATED STREET NAME SIGNS
MAY ONLY BE AVAILABLE IN 2 FOOT INCREMENTS.

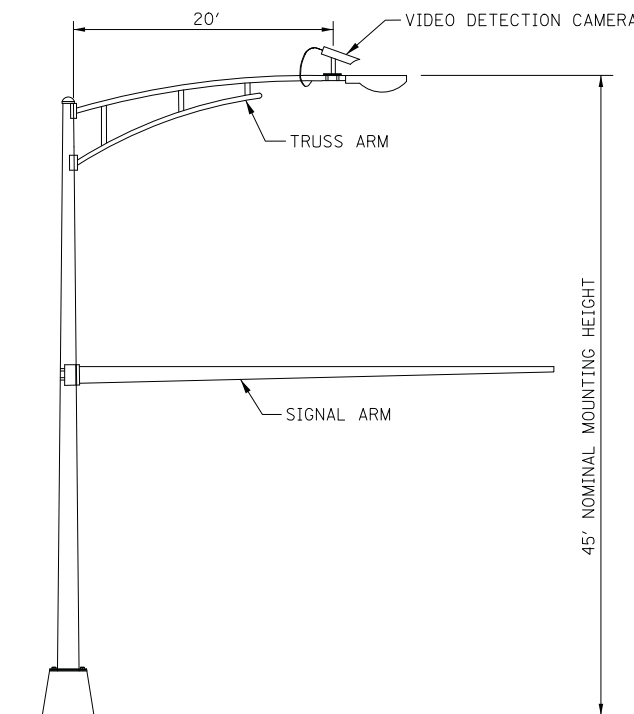
DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
FINISH SURVEY	
NOTE BOOK	
NO.	

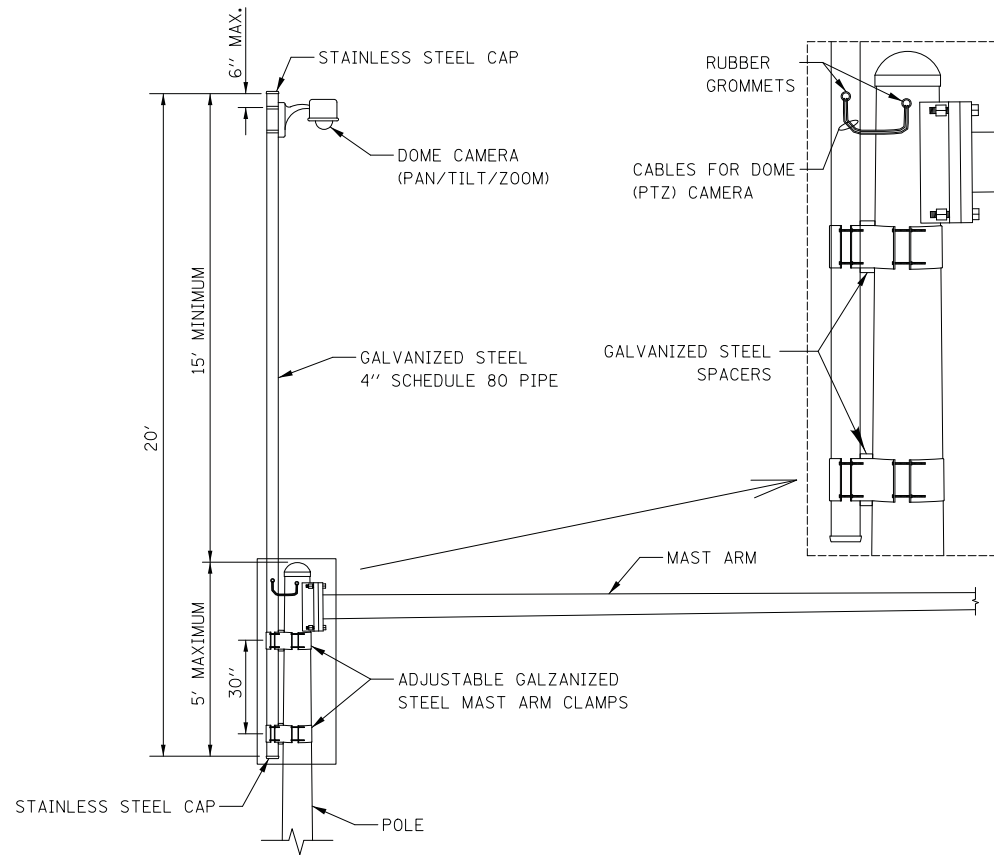


TYPICAL VIDEO VEHICLE DETECTION SYSTEM
(NOT TO SCALE)

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

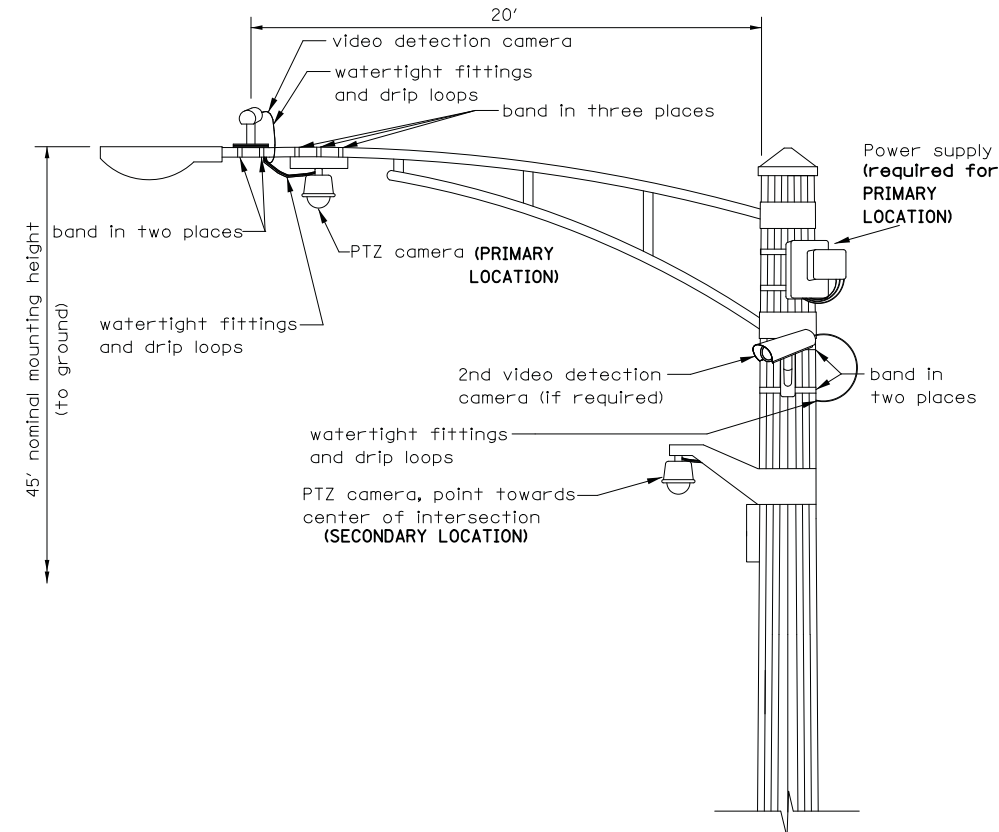


COMBINATION MAST ARM ASSEMBLY AND POLE DIMENSIONS
(NOT TO SCALE)



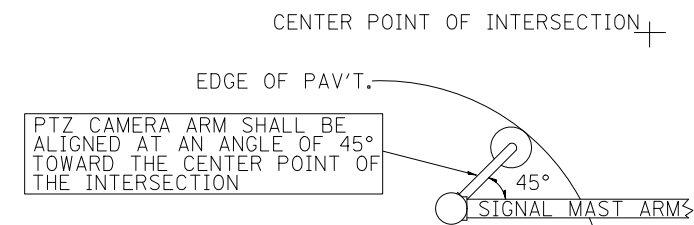
CAMERA MOUNTING ASSEMBLY DETAIL
(NOT TO SCALE)

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)

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	

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

CIVILTECH
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 - 7/10/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LAKE COUNTY DIVISION OF TRANSPORTATION
CAMERA MOUNTING DETAILS

SCALE: NO SCALE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2665	18-00158-13-WR	LAKE	623	228
CONTRACT NO. 61F25				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

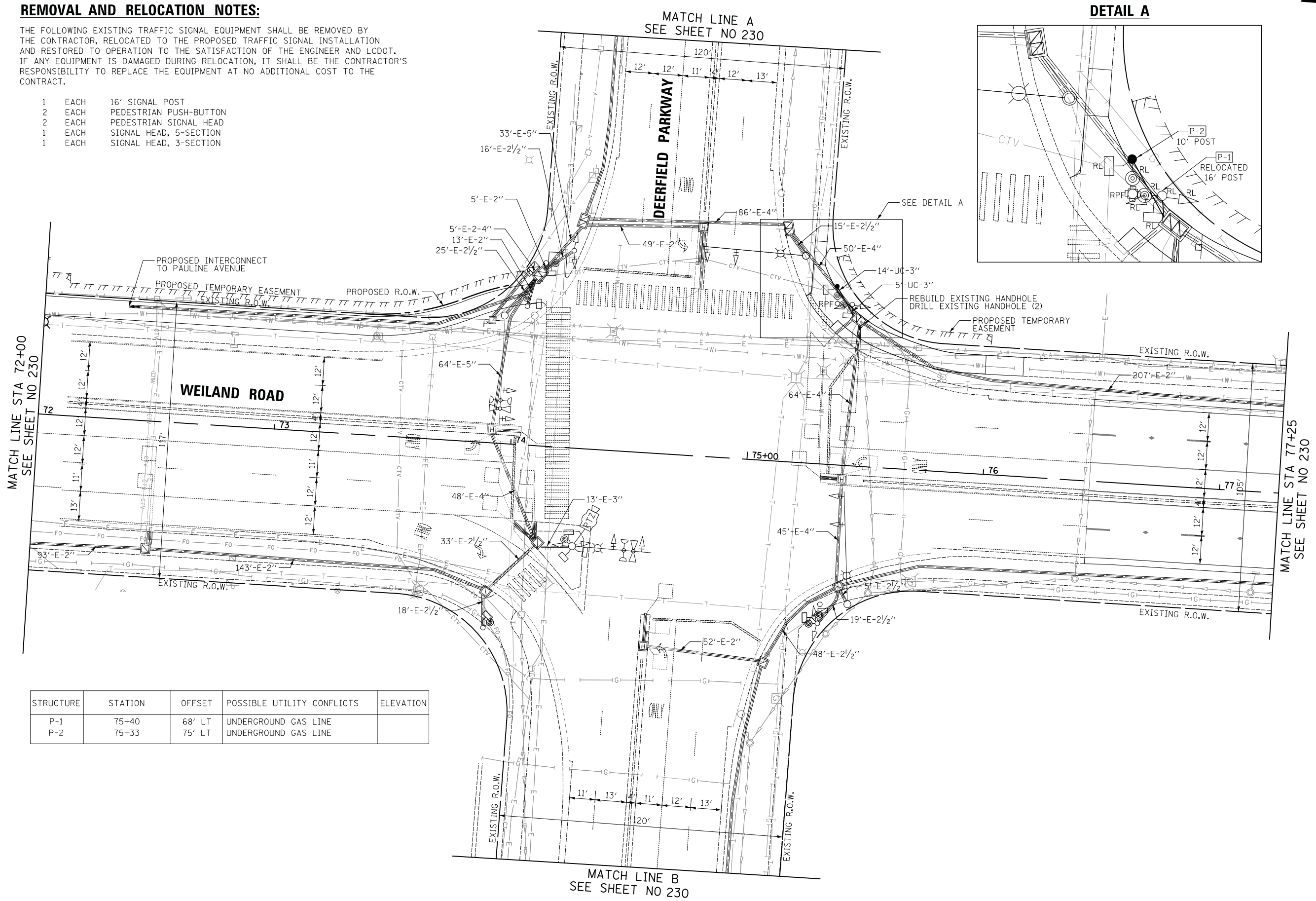
REMOVAL AND RELOCATION NOTES:

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, 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 16' SIGNAL POST
- 2 EACH PEDESTRIAN PUSH-BUTTON
- 2 EACH PEDESTRIAN SIGNAL HEAD
- 1 EACH SIGNAL HEAD, 5-SECTION
- 1 EACH SIGNAL HEAD, 3-SECTION

DATE	
BY	
FINISHED	
DATE	
BY	
NO.	

DATE	
BY	
FINISHED	
DATE	
BY	
NO.	



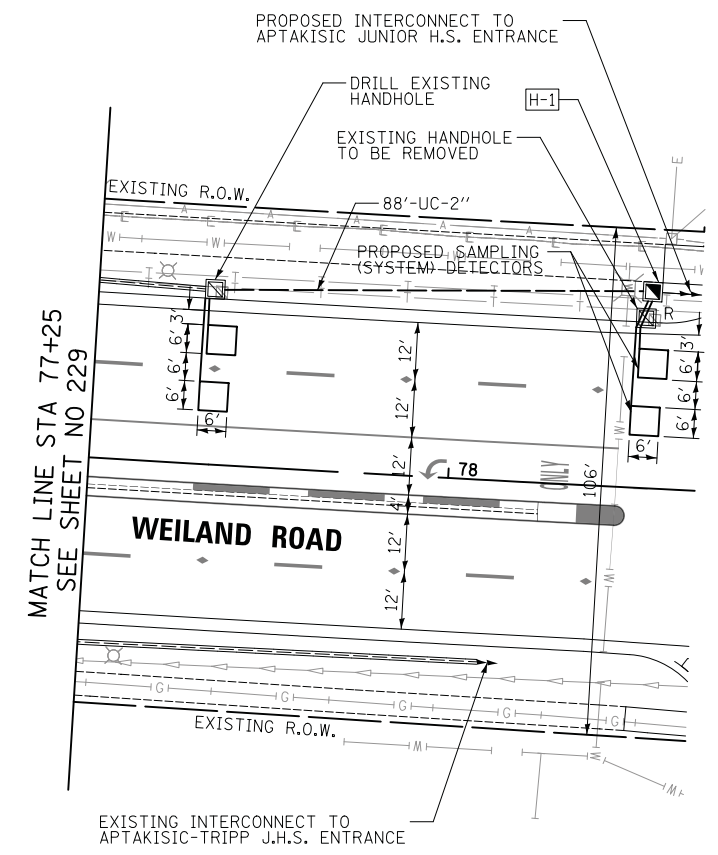
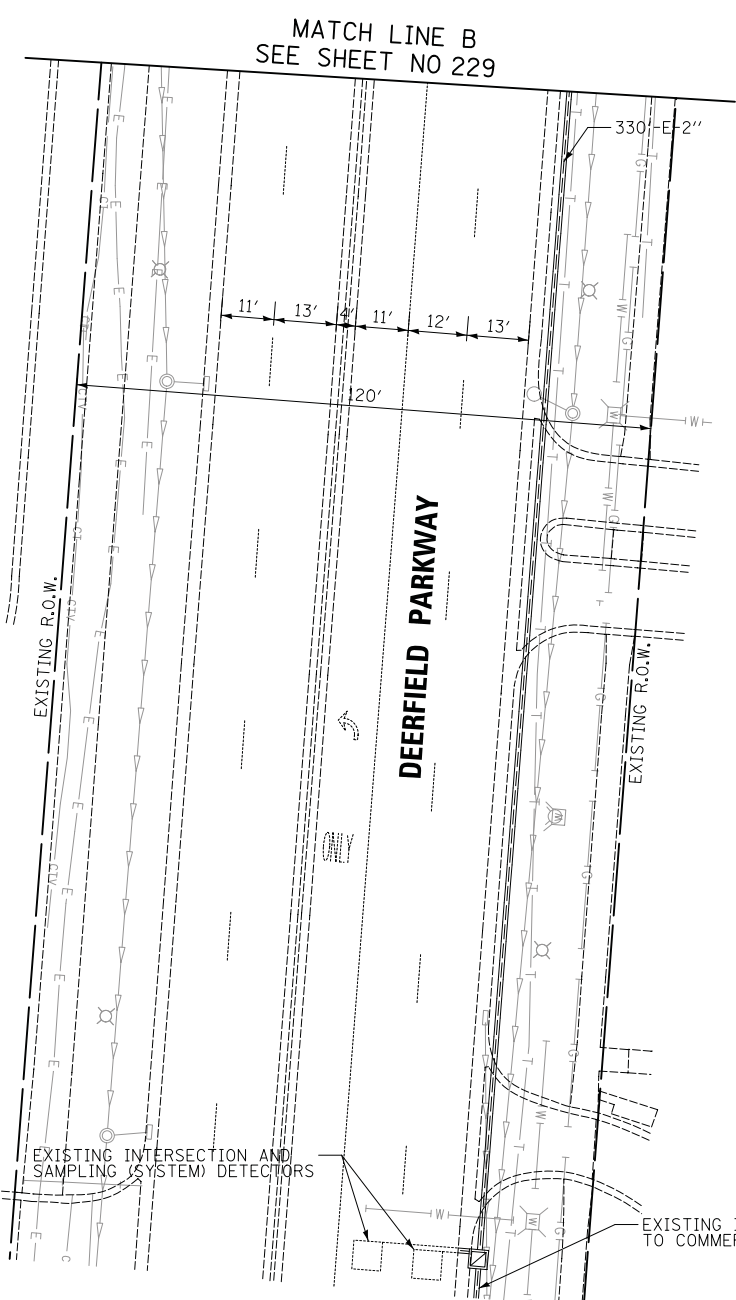
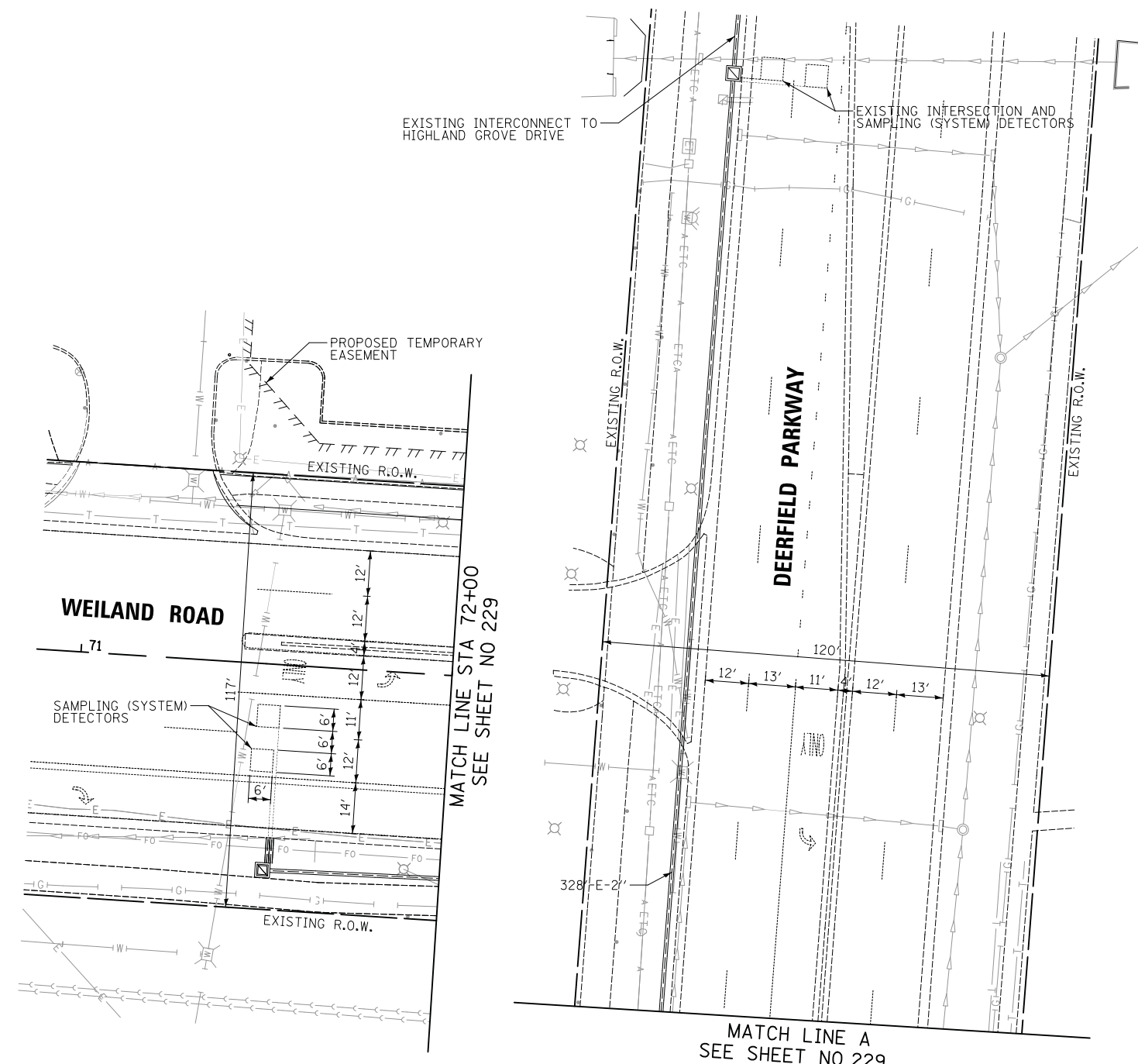
STRUCTURE	STATION	OFFSET	POSSIBLE UTILITY CONFLICTS	ELEVATION
P-1	75+40	68' LT	UNDERGROUND GAS LINE	
P-2	75+33	75' LT	UNDERGROUND GAS LINE	



DATE	BY
NO.	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
	TEMPLATE
	AREAS
	CHECKED

DATE	BY
NO.	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
	TEMPLATE
	AREAS
	CHECKED

STRUCTURE	STATION	OFFSET	POSSIBLE UTILITY CONFLICTS	ELEVATION
H-1	78+41	41' LT	UNDERGROUND WATER VAULT UNDERGROUND TELEPHONE LINE	683.13



CIVILTECH
 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 - 7/10/2019	REVISED -

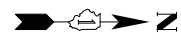
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**



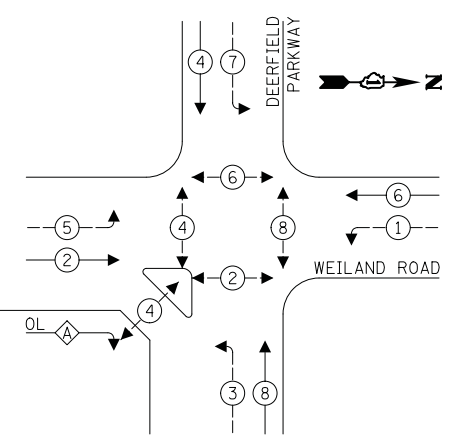
**TRAFFIC SIGNAL MODIFICATION PLAN
 WEILAND ROAD AT DEERFIELD PARKWAY**

SCALE: 1" = 20' SHEET NO. 2 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2665	18-00158-13-WR	LAKE	623	230
CONTRACT NO. 61F25				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



EXISTING CONTROLLER SEQUENCE



LEGEND:

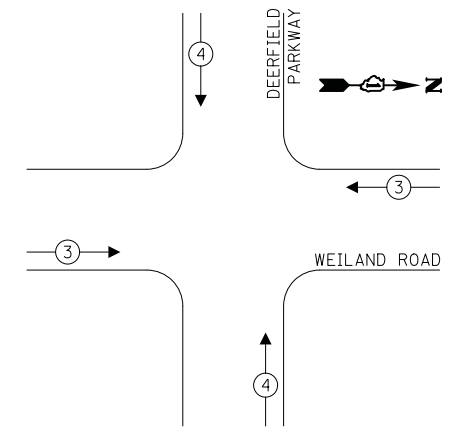
- ← ⊙ — PROTECTED PHASE
- ← ⊙ — PROTECTED/PERMITTED PHASE
- ← ⊙ — PEDESTRIAN PHASE
- ← ⊙ — OVERLAP

RIGHT TURN OVERLAP

PHASE DESIGNATION:

$$\text{OVERLAP LETTER } A = \text{PERMISSIVE PHASE } 2 + \text{PROTECTED PHASE } 3$$

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



EXISTING SAMPLING (SYSTEM) DETECTORS

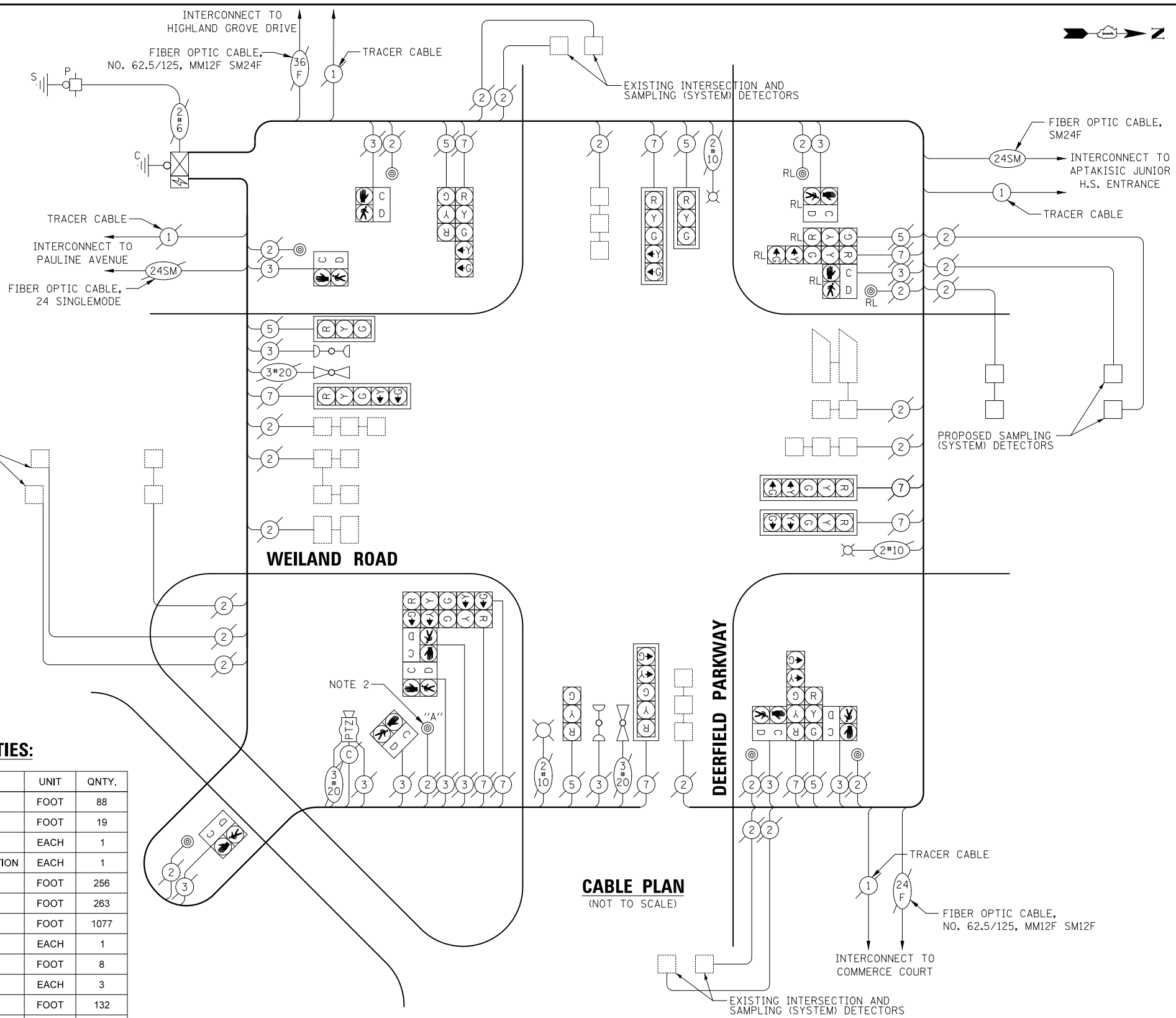
SCHEDULE OF QUANTITIES:

PAY ITEM	UNIT	QNTY.
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	88
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	19
HANDHOLE	EACH	1
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	256
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	263
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1PAIR	FOOT	1077
TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	8
DRILL EXISTING HANDHOLE	EACH	3
DETECTOR LOOP, TYPE I	FOOT	132
RELOCATE EXISTING SIGNAL HEAD	EACH	2
RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD	EACH	2
RELOCATE EXISTING PEDESTRIAN PUSH-BUTTON	EACH	2
RELOCATE EXISTING TRAFFIC SIGNAL POST	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	1583
REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	105
REBUILD EXISTING HANDHOLE	EACH	1
REMOVE EXISTING HANDHOLE	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	1

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)	16	12	45	86.4
ARROW	20	10	10	20.0
PED. SIGNAL	8	20	100	160.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	-	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	3	250	100	750.0
TOTAL =				1307.4

ENERGY COSTS TO:
VILLAGE OF BUFFALO GROVE
 50 RAUPP BOULEVARD
 BUFFALO GROVE, IL 60089
 ENERGY SUPPLY: CONTACT: RUTH BOWEN
 PHONE: (847) 816-5459
 COMPANY: COMED
 ACCOUNT NUMBER: 1023097173



CABLE PLAN
(NOT TO SCALE)

CABLE PLAN NOTES:

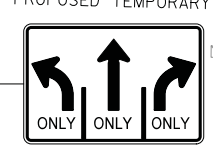
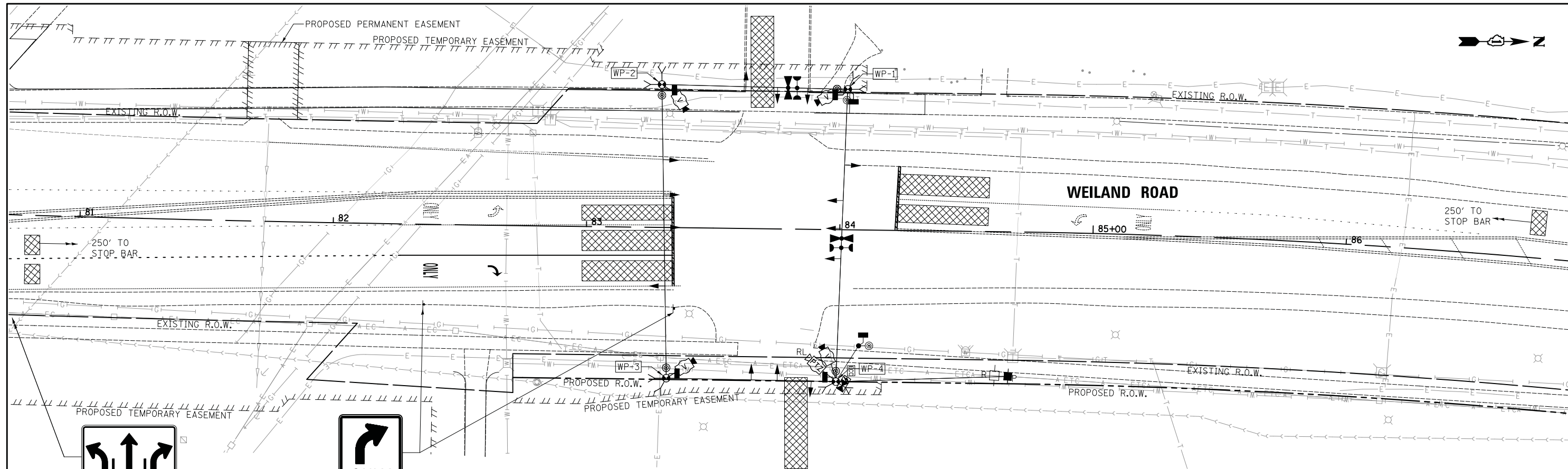
1. THE END OF THE TRACER CABLE SHALL BE CONTINUOUS AND EXTEND INTO THE CONTROLLER CABINET.
2. PUSH-BUTTON "A" SHALL PLACE A CALL TO PHASES 2 AND 4.

DATE	
BY	
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	

DATE	
BY	
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	

DATE	
BY	
FINAL SURVEY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	



R3-8B (45" x 30")
(TO BE INSTALLED
AT THE BEGINNING OF LTB TAPER)



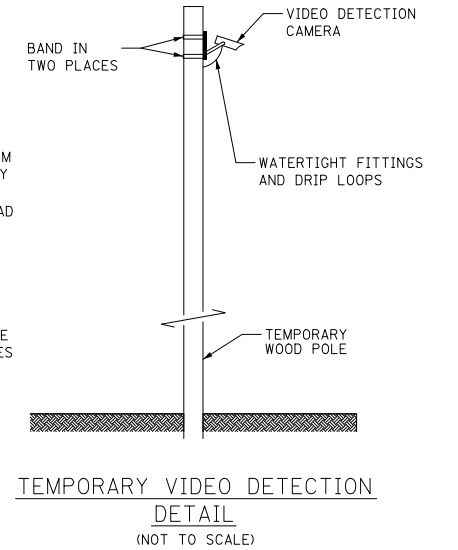
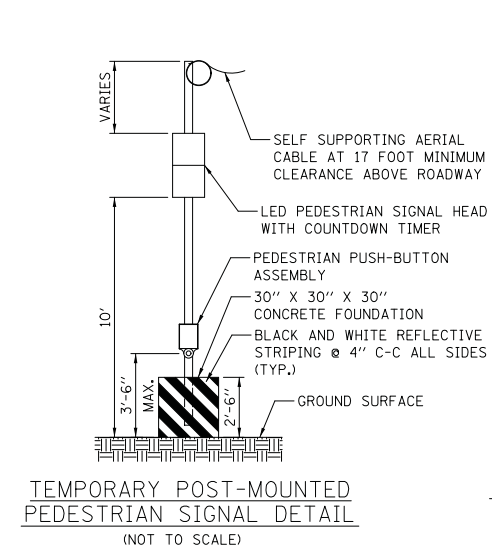
R3-5R (30" x 36")
(ADDITIONAL SIGNING AND STRIPING
TO BE PROVIDED IN ACCORDANCE WITH
'THRU LANE TO TURN LANE CONVERSION'
DETAIL OF LAKE COUNTY STANDARD LC7800)

APTAKISIC JUNIOR HIGH SCHOOL ENTRANCE

NOTES

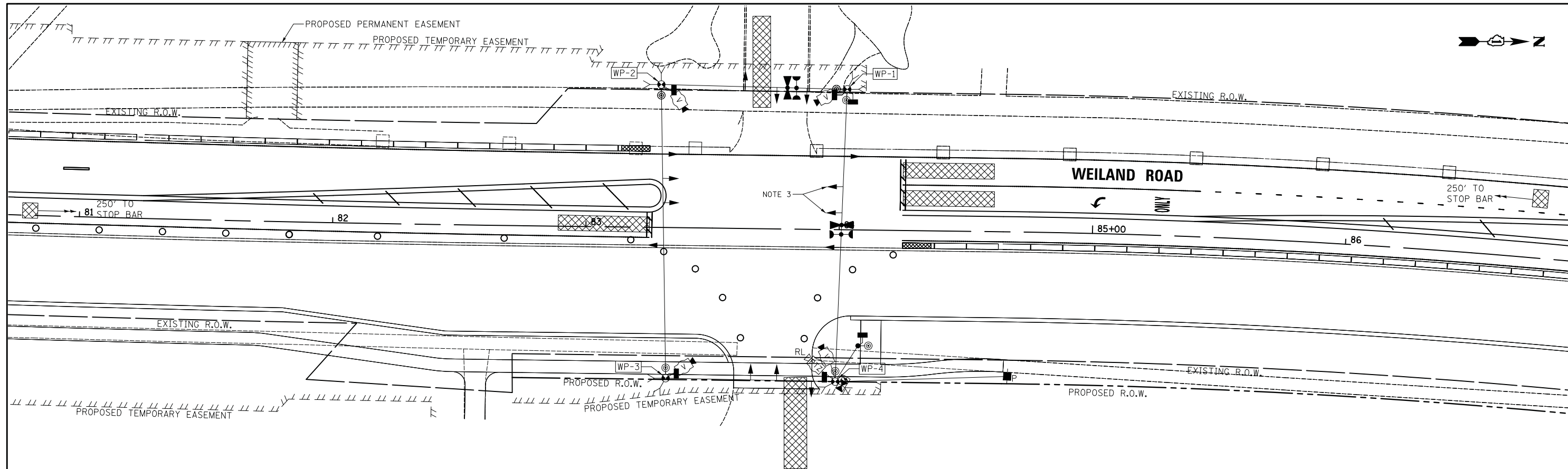
1. THE TEMPORARY TRAFFIC SIGNAL AT THE ENTRANCE (SOUTH) DRIVEWAY SHALL BE TURNED ON SIMULTANEOUSLY WITH THE TURN-OFF OF THE EXISTING TRAFFIC SIGNAL AT THE EXIT (NORTH) DRIVEWAY.
2. THE EXISTING REMOTE-CONTROLLED VIDEO SYSTEM, LAYER II SWITCH AND VIDEO ENCODER AT THE JUNIOR HIGH SCHOOL EXIT SHALL BE RELOCATED TO THE TEMPORARY TRAFFIC SIGNAL AT THE ENTRANCE. UPON THE REMOVAL OF THE TEMPORARY TRAFFIC SIGNAL, THE EQUIPMENT SHALL BE DELIVERED BY THE CONTRACTOR TO THE COUNTY'S TRAFFIC SIGNAL MAINTENANCE CONTRACTOR'S MAIN FACILITY AS PER THE SPECIAL PROVISIONS.
3. THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE NTCIP (LATEST VERSION) COMPLIANT TO MATCH THE EXISTING SYSTEM.

STRUCTURE	STATION	OFFSET	HEIGHT	POSSIBLE UTILITY CONFLICTS
WP-1	84+02	55' LT	50'	UNDERGROUND TELEPHONE LINE, UNDERGROUND ELECTRIC LINE
WP-2	83+29	56' LT	50'	UNDERGROUND ELECTRIC LINE
WP-3	83+32	60' RT	50'	UNDERGROUND WATER MAIN
WP-4	83+99	60' RT	50'	UNDERGROUND WATER MAIN
WP-1 TO WP-2	SPAN WIRE			NONE
WP-2 TO WP-3	SPAN WIRE			AERIAL LINES
WP-3 TO WP-4	SPAN WIRE			NONE
WP-4 TO WP-1	SPAN WIRE			AERIAL LINES



DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
FINISHED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
ORIGINAL	
NO.	

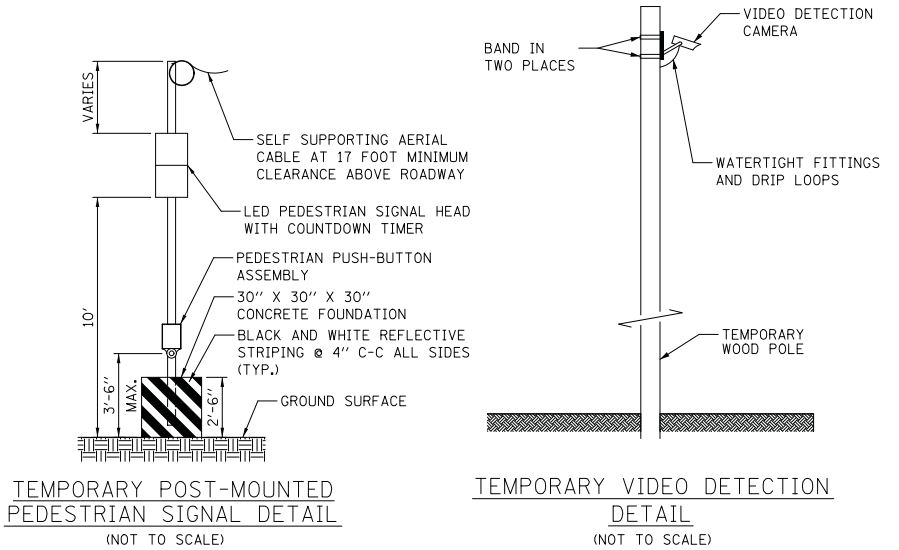


**APTAKISIC JUNIOR HIGH SCHOOL
ENTRANCE**

STRUCTURE	STATION	OFFSET	HEIGHT	POSSIBLE UTILITY CONFLICTS
WP-1	84+02	55' LT	50'	UNDERGROUND TELEPHONE LINE, UNDERGROUND ELECTRIC LINE
WP-2	83+29	56' LT	50'	UNDERGROUND ELECTRIC LINE
WP-3	83+32	60' RT	50'	UNDERGROUND WATER MAIN
WP-4	83+99	60' RT	50'	UNDERGROUND WATER MAIN
WP-1 TO WP-2	SPAN WIRE			NONE
WP-2 TO WP-3	SPAN WIRE			AERIAL LINES
WP-3 TO WP-4	SPAN WIRE			NONE
WP-4 TO WP-1	SPAN WIRE			AERIAL LINES

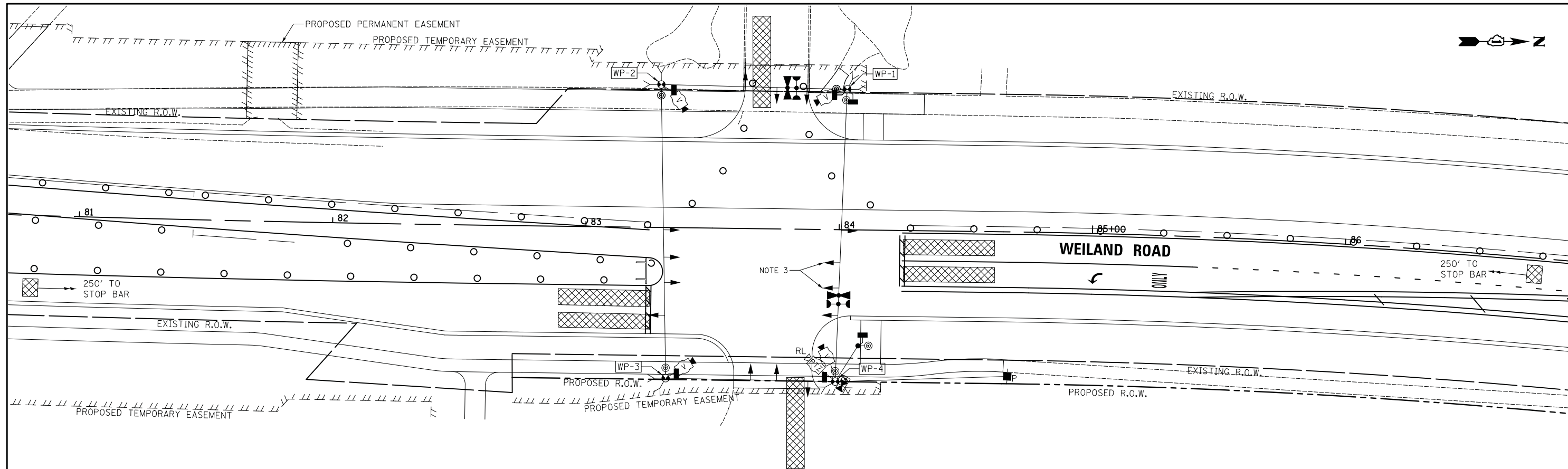
NOTES

1. THE EXISTING REMOTE-CONTROLLED VIDEO SYSTEM, LAYER II SWITCH AND VIDEO ENCODER AT THE JUNIOR HIGH SCHOOL EXIT SHALL BE RELOCATED TO THE TEMPORARY TRAFFIC SIGNAL AT THE ENTRANCE. UPON THE REMOVAL OF THE TEMPORARY TRAFFIC SIGNAL, THE EQUIPMENT SHALL BE DELIVERED BY THE CONTRACTOR TO THE COUNTY'S TRAFFIC SIGNAL MAINTENANCE CONTRACTOR'S MAIN FACILITY AS PER THE SPECIAL PROVISIONS.
2. THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE NTCIP (LATEST VERSION) COMPLIANT TO MATCH THE EXISTING SYSTEM.
3. THE LEFT TURN ARROWS SHALL BE TURNED OFF AND COVERED FOR THESE TRAFFIC SIGNAL HEADS DURING THIS STAGE.



DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
FINAL SURVEY	
NOTE BOOK	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	

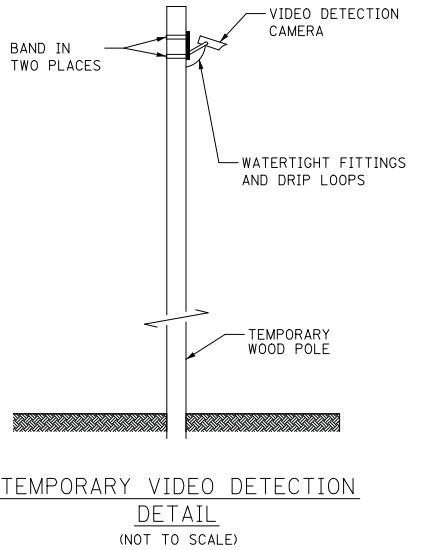
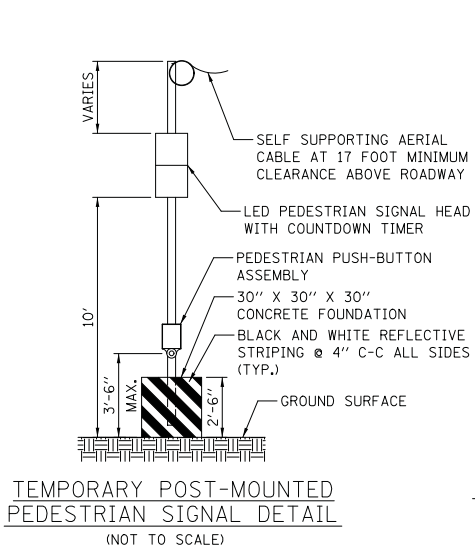


**APTAKISIC JUNIOR HIGH SCHOOL
ENTRANCE**

STRUCTURE	STATION	OFFSET	HEIGHT	POSSIBLE UTILITY CONFLICTS
WP-1	84+02	55' LT	50'	UNDERGROUND TELEPHONE LINE, UNDERGROUND ELECTRIC LINE
WP-2	83+29	56' LT	50'	UNDERGROUND ELECTRIC LINE
WP-3	83+32	60' RT	50'	UNDERGROUND WATER MAIN
WP-4	83+99	60' RT	50'	UNDERGROUND WATER MAIN
WP-1 TO WP-2	SPAN WIRE			NONE
WP-2 TO WP-3	SPAN WIRE			AERIAL LINES
WP-3 TO WP-4	SPAN WIRE			NONE
WP-4 TO WP-1	SPAN WIRE			AERIAL LINES

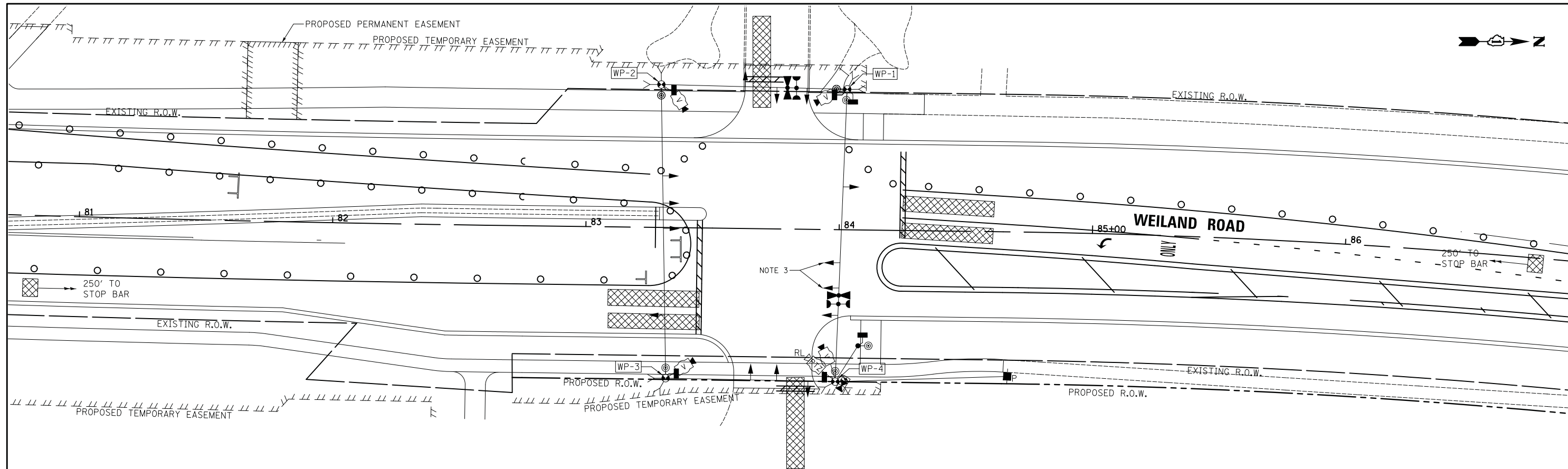
NOTES

1. THE EXISTING REMOTE-CONTROLLED VIDEO SYSTEM, LAYER II SWITCH AND VIDEO ENCODER AT THE JUNIOR HIGH SCHOOL EXIT SHALL BE RELOCATED TO THE TEMPORARY TRAFFIC SIGNAL AT THE ENTRANCE. UPON THE REMOVAL OF THE TEMPORARY TRAFFIC SIGNAL, THE EQUIPMENT SHALL BE DELIVERED BY THE CONTRACTOR TO THE COUNTY'S TRAFFIC SIGNAL MAINTENANCE CONTRACTOR'S MAIN FACILITY AS PER THE SPECIAL PROVISIONS.
2. THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE NTCIP (LATEST VERSION) COMPLIANT TO MATCH THE EXISTING SYSTEM.
3. THE LEFT TURN ARROWS SHALL BE TURNED OFF AND COVERED FOR THESE TRAFFIC SIGNAL HEADS DURING THIS STAGE.



DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
FINAL SURVEY	
NOTE BOOK	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	

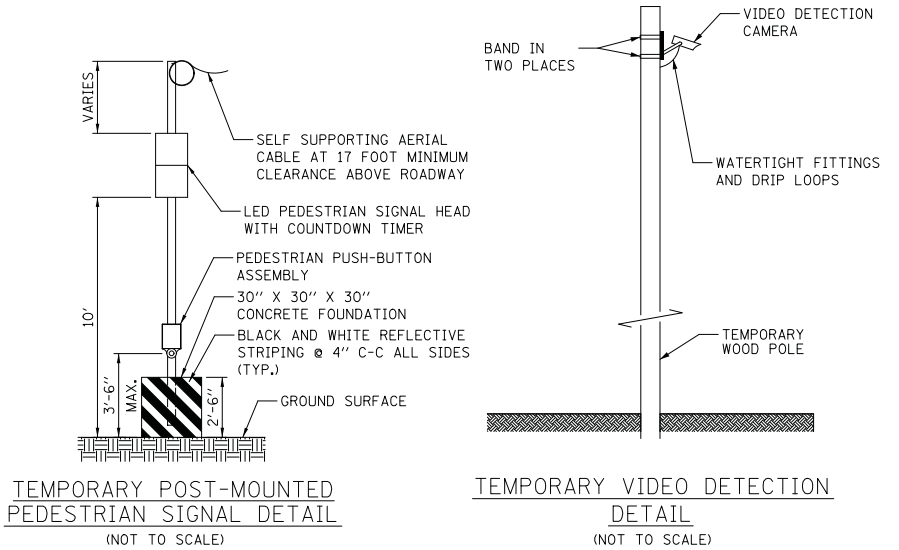


**APTAKISIC JUNIOR HIGH SCHOOL
ENTRANCE**

STRUCTURE	STATION	OFFSET	HEIGHT	POSSIBLE UTILITY CONFLICTS
WP-1	84+02	55' LT	50'	UNDERGROUND TELEPHONE LINE, UNDERGROUND ELECTRIC LINE
WP-2	83+29	56' LT	50'	UNDERGROUND ELECTRIC LINE
WP-3	83+32	60' RT	50'	UNDERGROUND WATER MAIN
WP-4	83+99	60' RT	50'	UNDERGROUND WATER MAIN
WP-1 TO WP-2	SPAN WIRE			NONE
WP-2 TO WP-3	SPAN WIRE			AERIAL LINES
WP-3 TO WP-4	SPAN WIRE			NONE
WP-4 TO WP-1	SPAN WIRE			AERIAL LINES

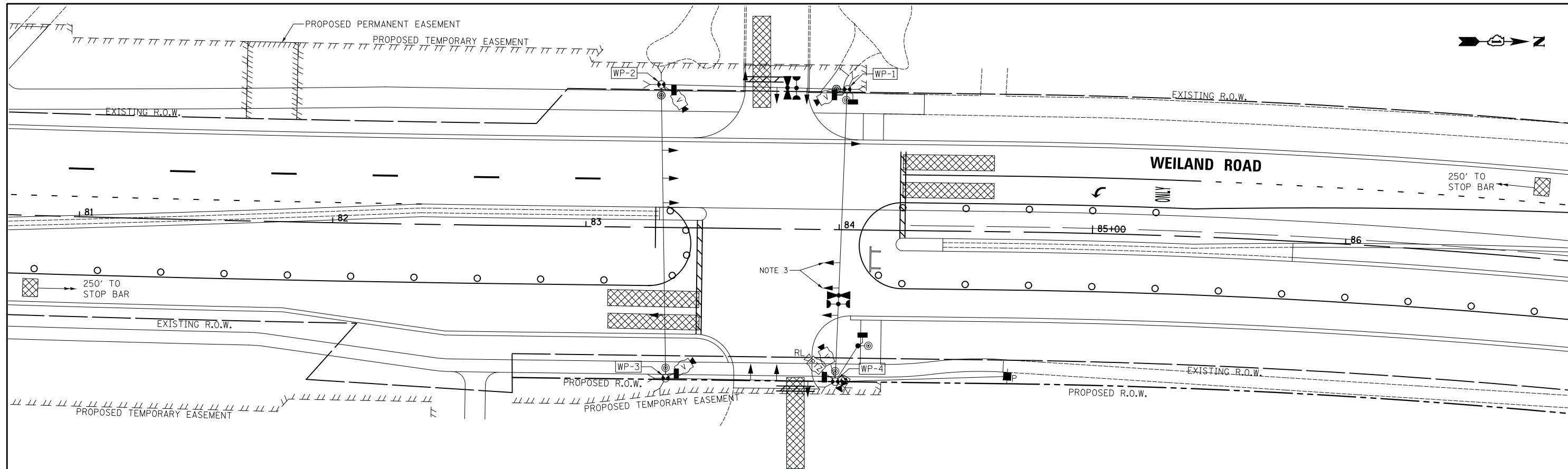
NOTES

1. THE EXISTING REMOTE-CONTROLLED VIDEO SYSTEM, LAYER II SWITCH AND VIDEO ENCODER AT THE JUNIOR HIGH SCHOOL EXIT SHALL BE RELOCATED TO THE TEMPORARY TRAFFIC SIGNAL AT THE ENTRANCE. UPON THE REMOVAL OF THE TEMPORARY TRAFFIC SIGNAL, THE EQUIPMENT SHALL BE DELIVERED BY THE CONTRACTOR TO THE COUNTY'S TRAFFIC SIGNAL MAINTENANCE CONTRACTOR'S MAIN FACILITY AS PER THE SPECIAL PROVISIONS.
2. THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE NTCIP (LATEST VERSION) COMPLIANT TO MATCH THE EXISTING SYSTEM.
3. THE LEFT TURN ARROWS SHALL BE TURNED OFF AND COVERED FOR THESE TRAFFIC SIGNAL HEADS DURING THIS STAGE.



DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
FINAL SURVEY	
NOTE BOOK	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	

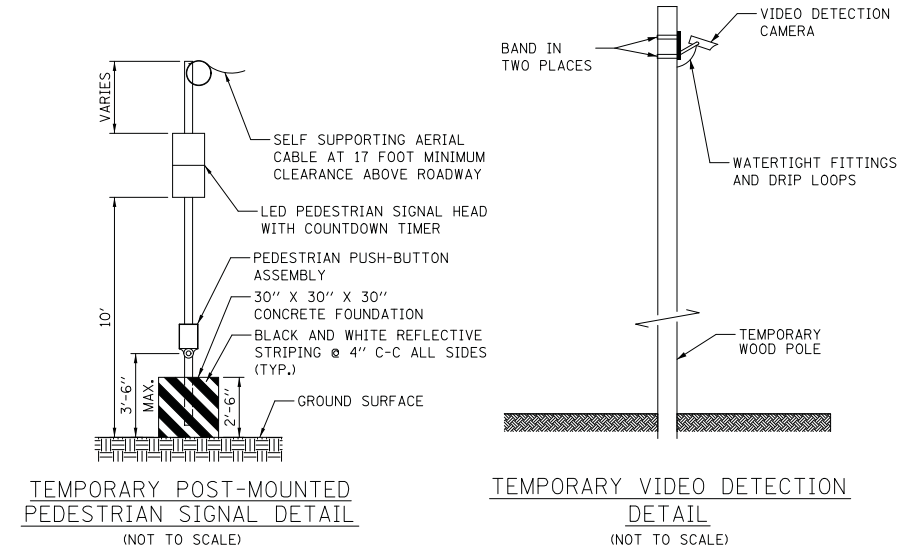


**APTAKISIC JUNIOR HIGH SCHOOL
ENTRANCE**

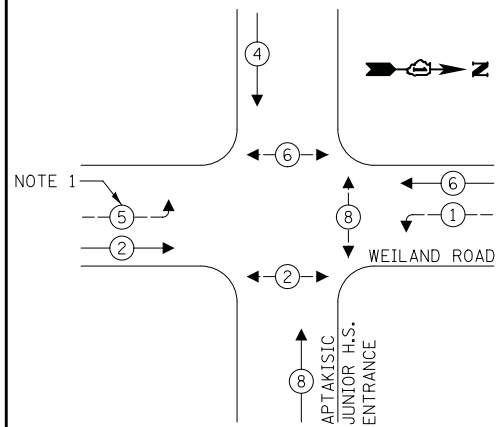
STRUCTURE	STATION	OFFSET	HEIGHT	POSSIBLE UTILITY CONFLICTS
WP-1	84+02	55' LT	50'	UNDERGROUND TELEPHONE LINE, UNDERGROUND ELECTRIC LINE
WP-2	83+29	56' LT	50'	UNDERGROUND ELECTRIC LINE
WP-3	83+32	60' RT	50'	UNDERGROUND WATER MAIN
WP-4	83+99	60' RT	50'	UNDERGROUND WATER MAIN
WP-1 TO WP-2	SPAN WIRE			NONE
WP-2 TO WP-3	SPAN WIRE			AERIAL LINES
WP-3 TO WP-4	SPAN WIRE			NONE
WP-4 TO WP-1	SPAN WIRE			AERIAL LINES

NOTES

1. THE EXISTING REMOTE-CONTROLLED VIDEO SYSTEM, LAYER II SWITCH AND VIDEO ENCODER AT THE JUNIOR HIGH SCHOOL EXIT SHALL BE RELOCATED TO THE TEMPORARY TRAFFIC SIGNAL AT THE ENTRANCE. UPON THE REMOVAL OF THE TEMPORARY TRAFFIC SIGNAL, THE EQUIPMENT SHALL BE DELIVERED BY THE CONTRACTOR TO THE COUNTY'S TRAFFIC SIGNAL MAINTENANCE CONTRACTOR'S MAIN FACILITY AS PER THE SPECIAL PROVISIONS.
2. THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE NTCIP (LATEST VERSION) COMPLIANT TO MATCH THE EXISTING SYSTEM.
3. THE LEFT TURN ARROWS SHALL BE TURNED OFF AND COVERED FOR THESE TRAFFIC SIGNAL HEADS DURING THIS STAGE.



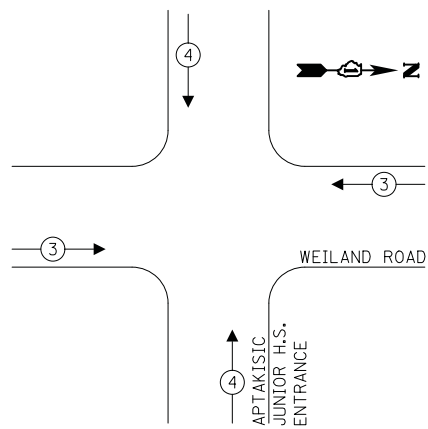
PROPOSED CONTROLLER SEQUENCE



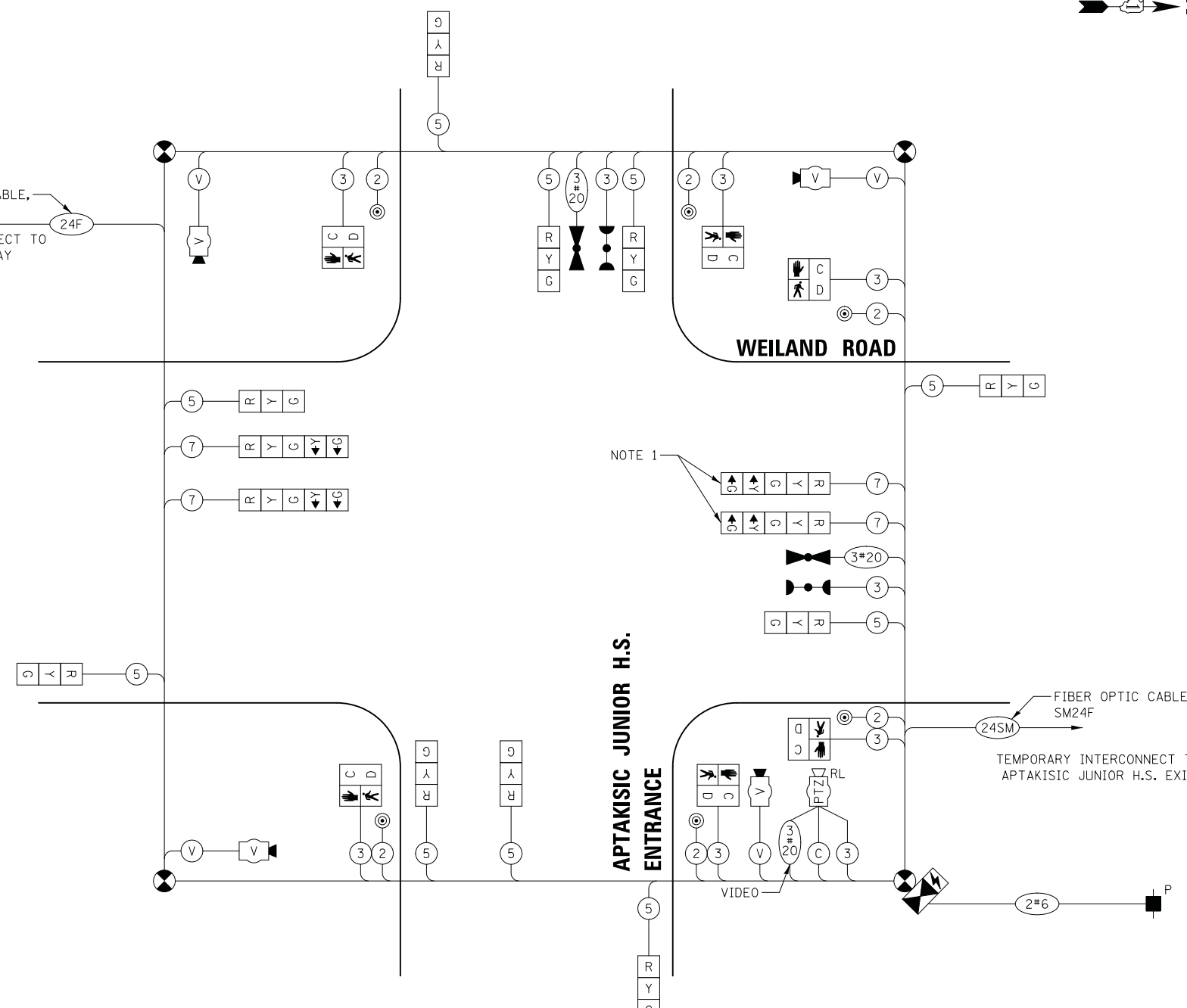
LEGEND:

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

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



FIBER OPTIC CABLE,
MM 12F SM 12F
TEMPORARY INTERCONNECT TO
DEERFIELD PARKWAY



CABLE PLAN
(NOT TO SCALE)

NOTES:

1. THE LEFT TURN ARROW SECTIONS OF THESE SIGNAL HEADS SHALL BE BAGGED AND PHASE 5 DISCONNECTED DURING MOT STAGES 1-3.
2. THE END OF THE TRACER CABLE SHALL BE CONTINUOUS AND EXTEND INTO THE CONTROLLER CABINET.
3. THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE NTCIP (LATEST VERSION) COMPLIANT TO MATCH THE EXISTING SYSTEM.

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	11	50	66.0
(YELLOW)	12	20	5	12.0
(GREEN)	12	12	45	64.8
ARROW	-	10	10	-
PED. SIGNAL	2	20	100	40.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	-	-	-
TOTAL =				457.8

ENERGY COSTS TO:

VILLAGE OF BUFFALO GROVE
50 RAUPP BOULEVARD
BUFFALO GROVE, IL 60089

ENERGY SUPPLY: CONTACT: RUTH BOWEN
PHONE: (847) 816-5459
COMPANY: COMED
ACCOUNT NUMBER: 1023097173

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	



DESIGNED - LEP	REVISED -
DRAWN - LEP	REVISED -
CHECKED - JJE	REVISED -
DATE - 7/10/2019	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM
AND TEMPORARY VEHICLE PREEMPTION SEQUENCE
WEILAND ROAD AT APTAKISIC JUNIOR HIGH SCHOOL ENTRANCE**

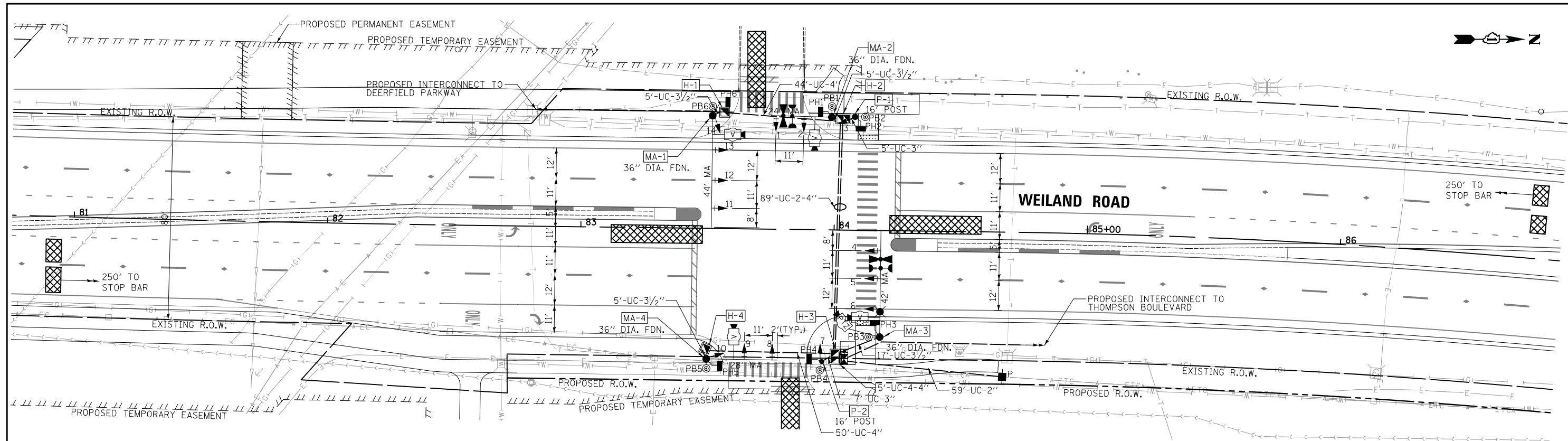
SCALE: NO SCALE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2665	18-00158-13-WR	LAKE	623	237
CONTRACT NO. 61F25				

FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
FINAL SURVEY	
NOTE BOOK	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	



**APTAKISIC JUNIOR HIGH SCHOOL
ENTRANCE**

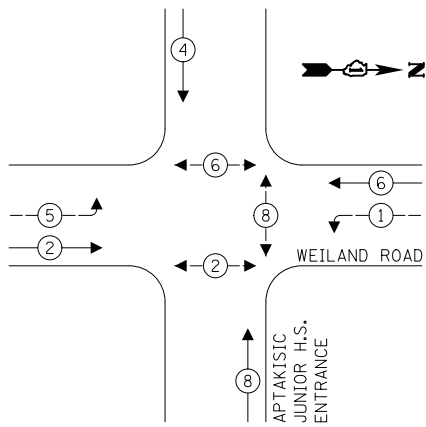
STRUCTURE	STATION	OFFSET	POSSIBLE UTILITY CONFLICTS	ELEVATION
P-1	84+08	45' LT	NONE	685.21
P-2	83+96	52' RT	NONE	683.53
MA-1	83+52	44' LT	UNDERGROUND WATER MAIN	685.16
MA-2	83+99	45' LT	UNDERGROUND WATER MAIN	685.14
MA-3	84+19	42' RT	NONE	683.69
MA-4	83+50	52' RT	AERIAL LINES	683.67
H-1	83+56	46' LT	UNDERGROUND WATER MAIN	685.02
H-2	84+03	44' LT	UNDERGROUND WATER MAIN	685.16
H-3	84+03	50' RT	NONE	683.49
H-4	83+50	48' RT	NONE	683.67

SCHEDULE OF COMBINATION MAST ARM ASSEMBLY AND POLES	
MA-1	44' MAST ARM, 20' MONOTUBE LUMINAIRE ARM, 45' CAMERA MOUNTING HEIGHT
MA-2	24' MAST ARM, 20' MONOTUBE LUMINAIRE ARM, 45' CAMERA MOUNTING HEIGHT
MA-3	42' MAST ARM, 20' MONOTUBE LUMINAIRE ARM, 45' LUMINAIRE MOUNTING HEIGHT
MA-4	28' MAST ARM, 20' MONOTUBE LUMINAIRE ARM, 45' CAMERA MOUNTING HEIGHT

NOTES:

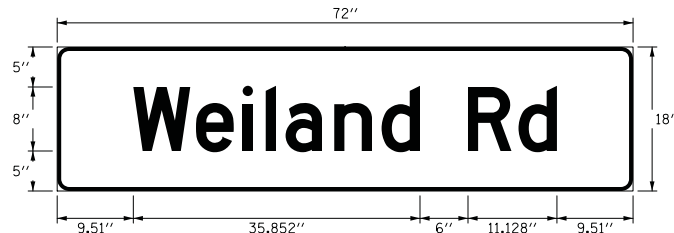
1. THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE NTCIP (LATEST VERSION) COMPLIANT TO MATCH THE EXISTING SYSTEM.
2. ALL DETECTION ZONES ARE APPROXIMATE. THE EXACT LOCATIONS SHALL BE DETERMINED AND LAID OUT BY LCDOT PERSONNEL.
3. ALL STATIONS AND OFFSETS ARE DIMENSIONED FROM THE CENTERLINE OF WEILAND ROAD.
4. THE LUMINAIRE MOUNTING HEIGHT SHALL BE 45' AND LUMINAIRE ARM LENGTH SHALL BE 20'.

PROPOSED CONTROLLER SEQUENCE



LEGEND:

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



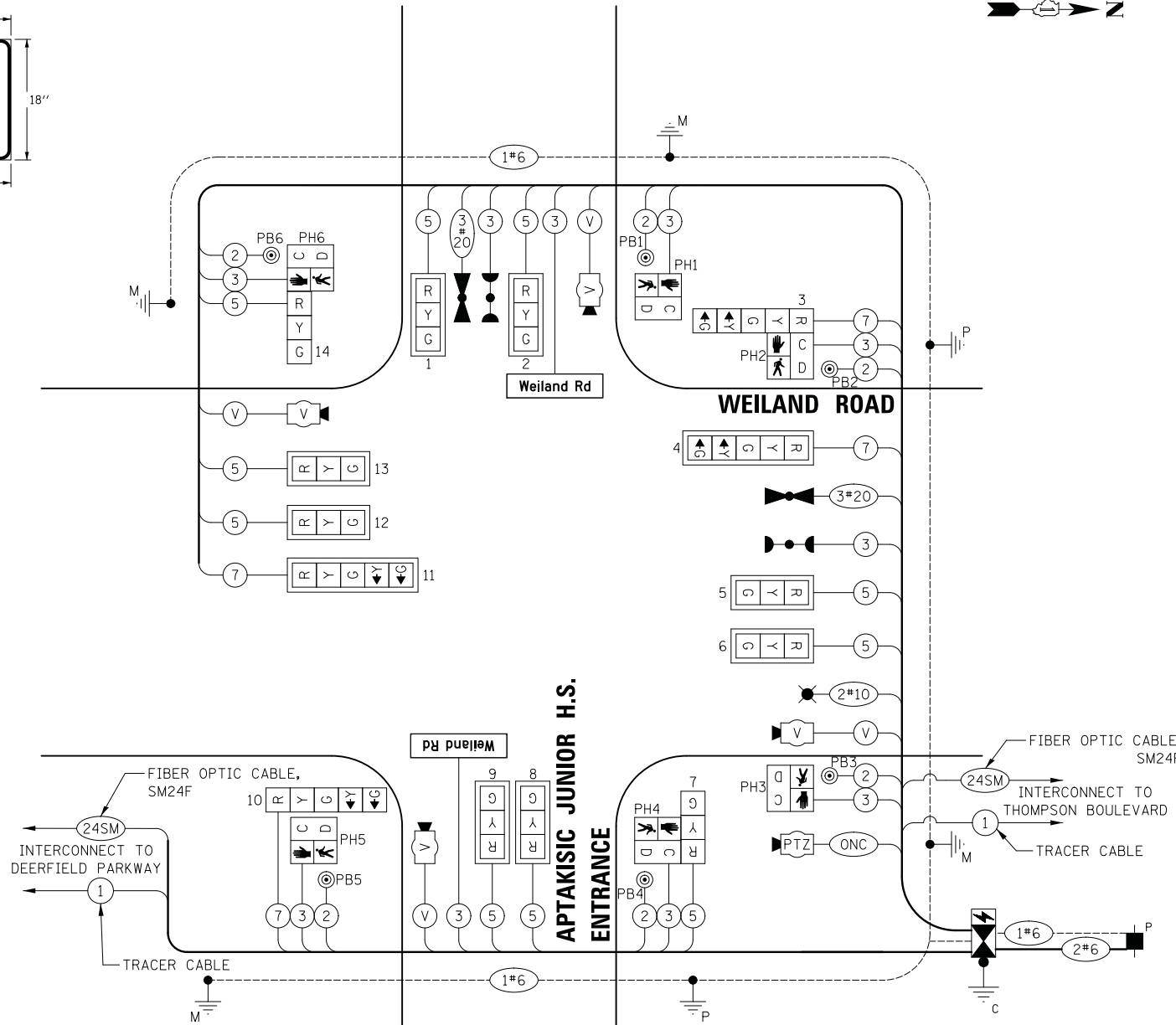
SCHEDULE OF QUANTITIES:

PAY ITEM	UNIT	QNTY.
SERVICE INSTALLATION - POLE MOUNTED	EACH	1
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	59
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	12
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3 1/2" DIA.	FOOT	32
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	292
HANDHOLE	EACH	2
DOUBLE HANDHOLE	EACH	2
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	219
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	658
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	971
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1458
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	589
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	79
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	559
CONCRETE FOUNDATION, TYPE A	FOOT	8
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	60
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	8
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
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	6
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	10
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	EACH	1
PEDESTRIAN PUSH-BUTTON	EACH	6
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	265
LED INTERNALLY ILLUMINATED STREET NAME SIGN	EACH	2
OUTDOOR RATED NETWORK CABLE	FOOT	110
UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET (SPECIAL)	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 24 FT. (SPECIAL)	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 28 FT. (SPECIAL)	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 42 FT. (SPECIAL)	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 44 FT. (SPECIAL)	EACH	1
VIDEO DETECTION SYSTEM COMPLETE INTERSECTION	EACH	1
TRAFFIC SIGNAL POST, 16 FOOT, (SPECIAL)	EACH	2
REMOTE CONTROLLED VIDEO SYSTEM	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
LUMINAIRE INSTALLATION, TYPE 2	EACH	1
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	15	11	50	82.5
(YELLOW)	15	20	5	15.0
(GREEN)	15	12	45	81.0
ARROW	8	10	10	8.0
PED. SIGNAL	6	20	100	120.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	2	120	50	120.0
LUMINAIRE	1	268	50	134.0
TOTAL =				835.5

ENERGY COSTS TO:
VILLAGE OF BUFFALO GROVE
 50 RAUPP BOULEVARD
 BUFFALO GROVE, IL 60089
 ENERGY SUPPLY: CONTACT: RUTH BOWEN
 PHONE: (847) 816-5459
 COMPANY: COMED
 ACCOUNT NUMBER: 1023097173



CABLE PLAN (NOT TO SCALE)

NOTES:

- LUMINAIRES SHALL NOT BE CONNECTED TO THE UNINTERRUPTABLE POWER SUPPLY UNIT.
- THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE NTCIP (LATEST VERSION) COMPLIANT TO MATCH THE EXISTING SYSTEM.
- THE END OF THE TRACER CABLE SHALL BE CONTINUOUS AND EXTEND INTO THE CONTROLLER CABINET.

LEGEND:

- ONC OUTDOOR RATED NETWORK CABLE

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	



DESIGNED - LEP	REVISED -
DRAWN - LEP	REVISED -
CHECKED - JJE	REVISED -
DATE - 7/10/2019	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

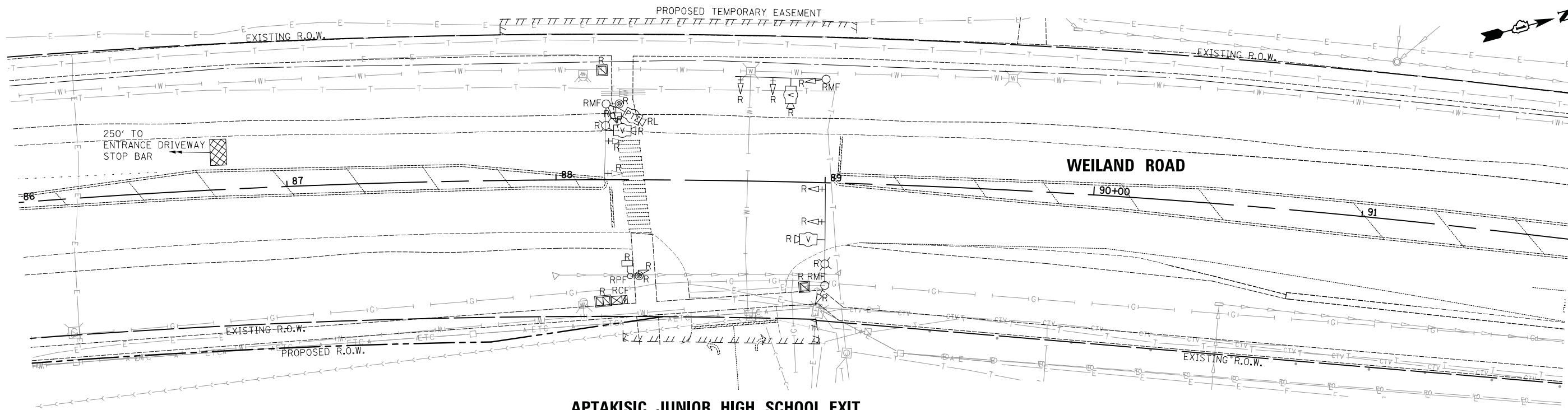
CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE, AND SCHEDULE OF QUANTITIES WEILAND ROAD AT APTAKISIC JUNIOR HIGH SCHOOL ENTRANCE

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2665	18-00158-13-WR	LAKE	623	239
CONTRACT NO. 61F25				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

SCALE: NO SCALE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	



APTAKISIC JUNIOR HIGH SCHOOL EXIT

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 STEEL COMBINATION MAST ARM ASSEMBLY AND POLE
- 1 EACH SIGNAL POST
- 10 EACH SIGNAL HEAD, 1-FACE, 3-SECTION
- 6 EACH TRAFFIC SIGNAL BACKPLATE
- 2 EACH PEDESTRIAN SIGNAL HEAD
- 2 EACH PEDESTRIAN PUSH-BUTTON
- 2 EACH LIGHT DETECTOR
- 1 EACH SERVICE INSTALLATION

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

- 1 EACH CONTROLLER, COMPLETE
- 1 EACH LIGHT DETECTOR AMPLIFIER
- 1 EACH VIDEO DETECTION SYSTEM (COMPLETE INTERSECTION)

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SHALL REMAIN THE PROPERTY OF LAKE COUNTY, AND SHALL BE RELOCATED TO THE TEMPORARY TRAFFIC SIGNAL AT THE ENTRANCE DRIVEWAY. UPON THE REMOVAL OF THE TEMPORARY TRAFFIC SIGNAL AT THE ENTRANCE DRIVEWAY, THE EQUIPMENT SHALL BE DELIVERED BY THE CONTRACTOR TO THE COUNTY'S TRAFFIC SIGNAL MAINTENANCE CONTRACTOR'S MAIN FACILITY AS PER THE SPECIAL PROVISIONS.

- 1 EACH REMOTE-CONTROLLED VIDEO SYSTEM
- 1 EACH VIDEO ENCODER
- 1 EACH LAYER II (DATALINK) SWITCH

NOTES:

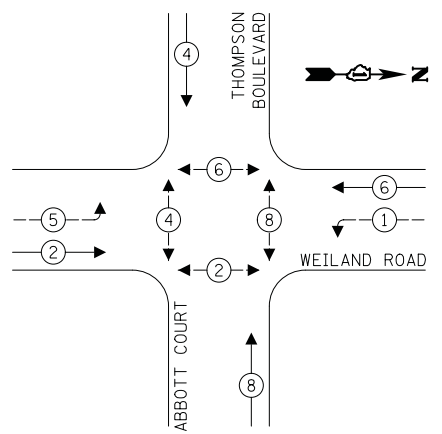
1. THE TEMPORARY TRAFFIC SIGNAL AT THE ENTRANCE (SOUTH) DRIVEWAY SHALL BE TURNED ON SIMULTANEOUSLY WITH THE TURN-OFF OF THE EXISTING TRAFFIC SIGNAL AT THE EXIT (NORTH) DRIVEWAY. THE SIGNAL HEADS AT THE EXIT DRIVEWAY SHALL IMMEDIATELY BE BAGGED OR REMOVED UPON TURN-OFF OF THE TRAFFIC SIGNAL.

REMOVAL SCHEDULE OF QUANTITIES:

PAY ITEM	UNIT	QNTY.
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	3
REMOVE EXISTING CONCRETE FOUNDATION	EACH	5
RELOCATE SWITCH	EACH	1
RELOCATE EXISTING ENCODER	EACH	1
RELOCATE EXISTING REMOTE-CONTROLLED VIDEO SYSTEM	EACH	1



PROPOSED CONTROLLER SEQUENCE



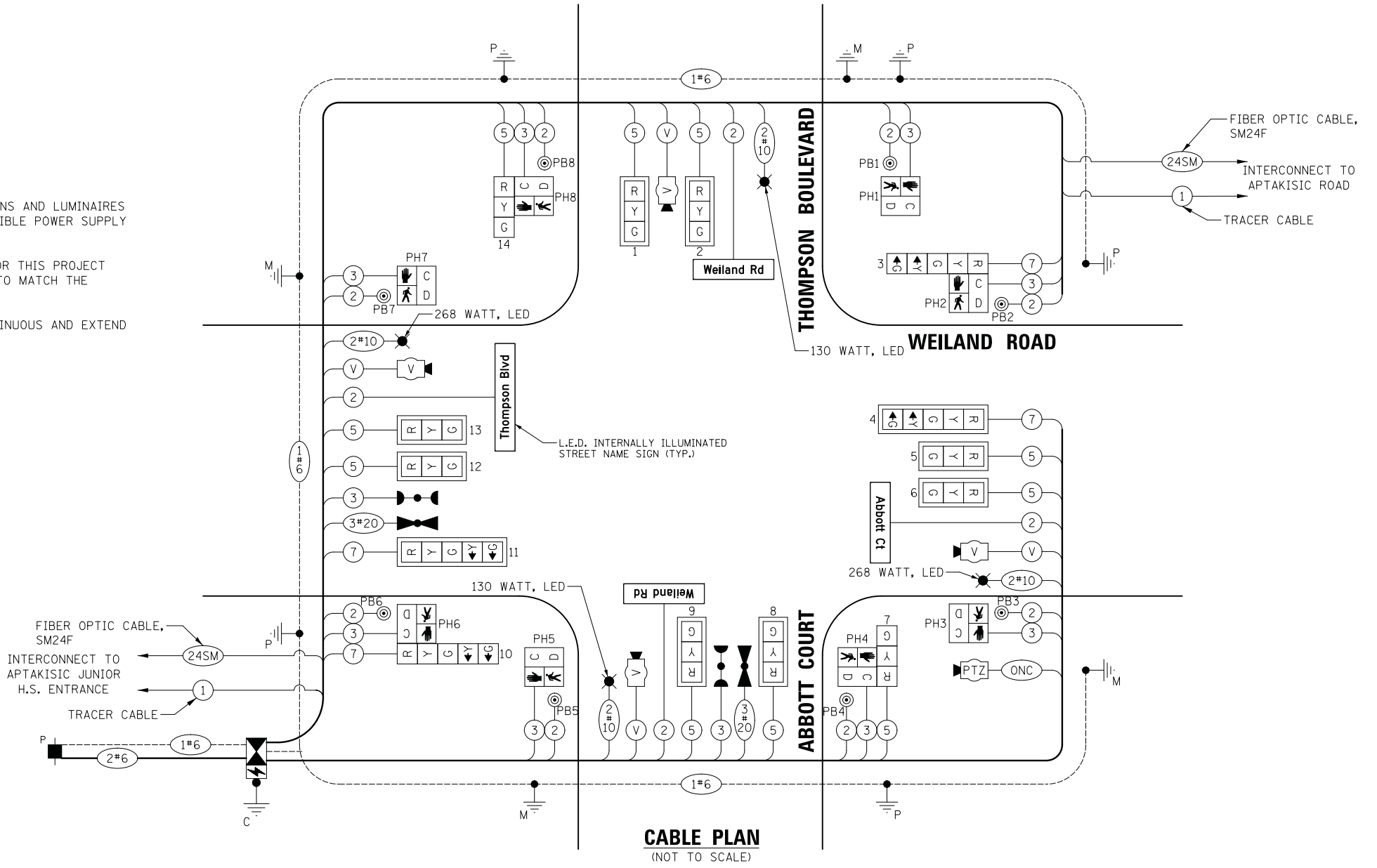
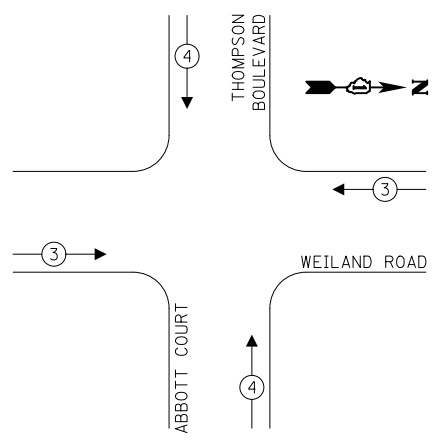
LEGEND:

- ← (⊛) ← PROTECTED PHASE
- ← (⊛) ← PROTECTED/PERMITTED PHASE
- ← (⊛) ← PEDESTRIAN PHASE
- ← (⊛) ← OVERLAP

NOTES:

1. LED INTERNALLY ILLUMINATED STREET NAME SIGNS AND LUMINAIRES SHALL NOT BE CONNECTED TO THE UNINTERRUPTIBLE POWER SUPPLY UNIT.
2. THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE NTCIP (LATEST VERSION) COMPLIANT TO MATCH THE EXISTING SYSTEM.
3. THE END OF THE TRACER CABLE SHALL BE CONTINUOUS AND EXTEND INTO THE CONTROLLER CABINET.

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



CABLE PLAN
(NOT TO SCALE)

LEGEND:

- (ONC) OUTDOOR RATED NETWORK CABLE

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	14	11	50	77.0
(YELLOW)	14	20	5	14.0
(GREEN)	14	12	45	75.6
ARROW	8	10	10	8.0
PED. SIGNAL	8	20	100	160.0
CONTROLLER	1	100	100	100.0
LPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	4	120	50	240.0
LUMINAIRE	2	130	50	130.0
LUMINAIRE	2	268	50	268.0
TOTAL =				1247.6

ENERGY COSTS TO:
 VILLAGE OF BUFFALO GROVE
 50 RAUPP BOULEVARD
 BUFFALO GROVE, IL 60089
 ENERGY SUPPLY: CONTACT: RUTH BOWEN
 PHONE: (847) 816-5459
 COMPANY: COMED
 ACCOUNT NUMBER: 1023097173

DATE	BY
SURVEYED	PLOTTED
NOTE BOOK	AREAS CHECKED
NO.	

DATE	BY
SURVEYED	PLOTTED
NOTE BOOK	AREAS CHECKED
NO.	



DESIGNED - LEP	REVISED -
DRAWN - LEP	REVISED -
CHECKED - JJE	REVISED -
DATE - 7/10/2019	REVISED -

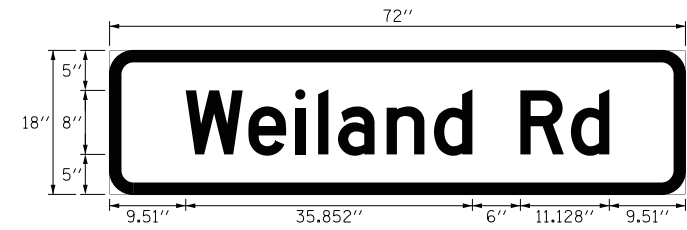
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
WEILAND ROAD AT THOMPSON BOULEVARD / ABBOTT COURT
 SCALE: NO SCALE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

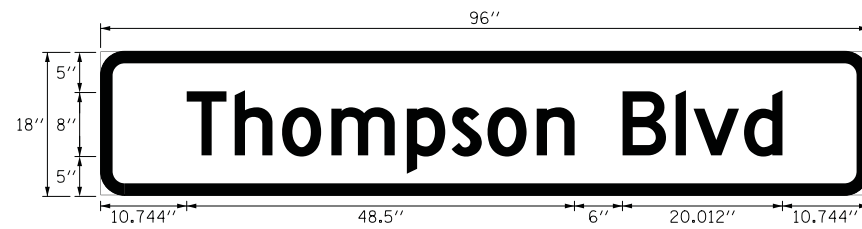
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2665	18-00158-13-WR	LAKE	623	242
CONTRACT NO. 61F25				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

DATE	BY	SURVEYED	PLOTTED	TEMPLATE	AREAS CHECKED
FINIAL SURVEY	NOTE BOOK	NO.			

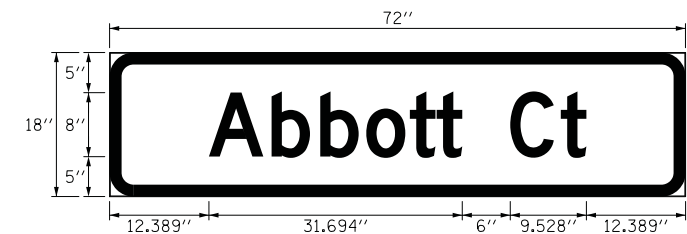
DATE	BY	SURVEYED	PLOTTED	TEMPLATE	AREAS CHECKED
ORIGINAL SURVEY	NOTE BOOK	NO.			



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	9.00	LED SNS	N/A	2 (DOUBLE-SIDED)



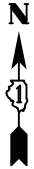
DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	12.00	LED SNS	N/A	1 (DOUBLE-SIDED)



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	9.00	LED SNS	N/A	1 (DOUBLE-SIDED)

SCHEDULE OF QUANTITIES:

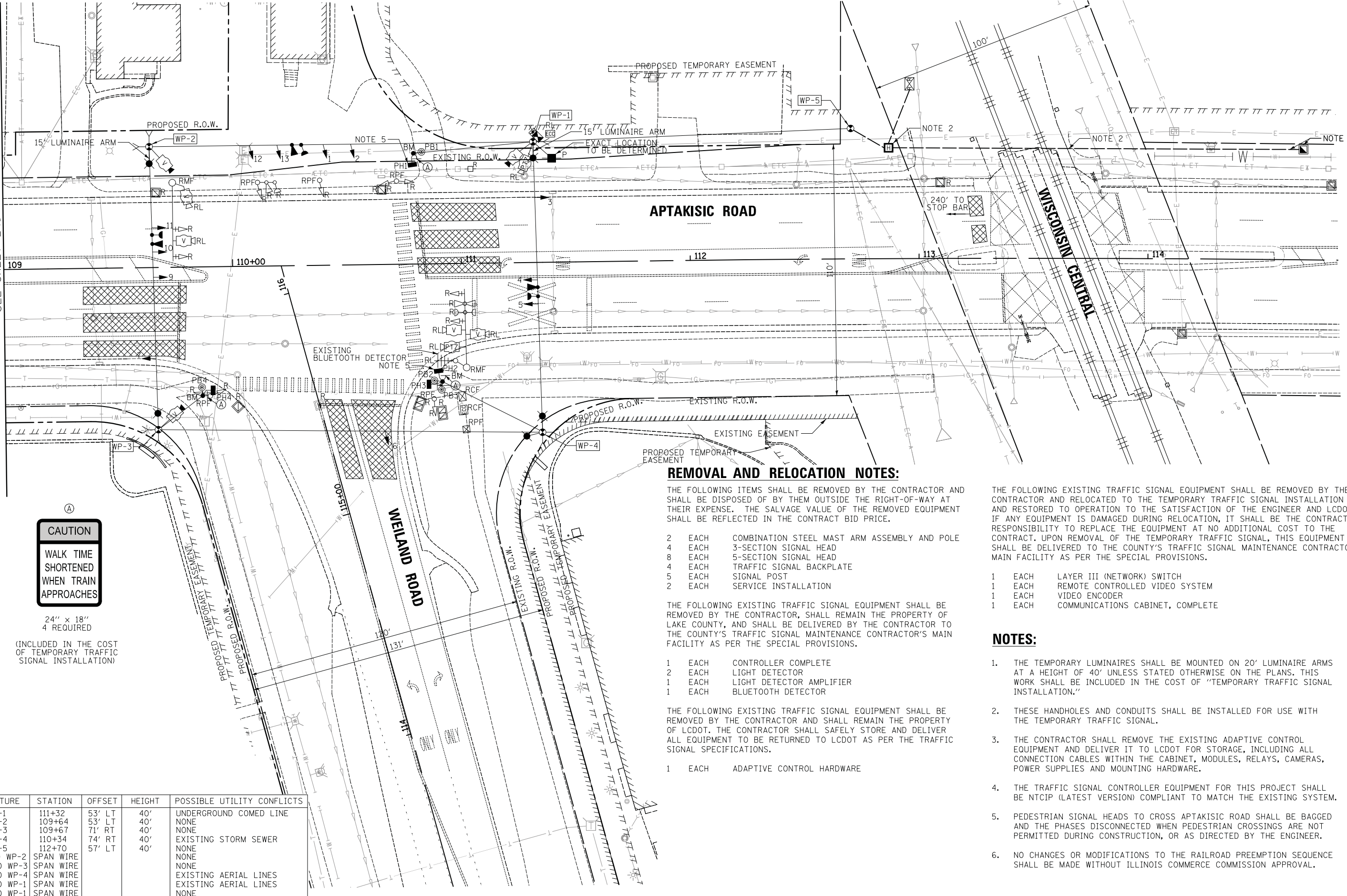
PAY ITEM	UNIT	QNTY.
SERVICE INSTALLATION - POLE MOUNTED	EACH	1
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	40
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	86
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3 1/2" DIA.	FOOT	66
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	376
HANDHOLE	EACH	2
DOUBLE HANDHOLE	EACH	2
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	1662
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1852
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1533
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1791
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	733
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	60
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	750
CONCRETE FOUNDATION, TYPE A	FOOT	20
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	60
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	8
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
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	8
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	10
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	EACH	1
PEDESTRIAN PUSH-BUTTON	EACH	8
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	296
LED INTERNALLY ILLUMINATED STREET NAME SIGN	EACH	4
OUTDOOR RATED NETWORK CABLE	FOOT	222
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 28 FT. (SPECIAL)	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 32 FT. (SPECIAL)	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 42 FT. (SPECIAL)	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 52 FT. (SPECIAL)	EACH	1
VIDEO DETECTION SYSTEM COMPLETE INTERSECTION	EACH	1
TRAFFIC SIGNAL POST, 10 FOOT, (SPECIAL)	EACH	1
TRAFFIC SIGNAL POST, 16 FOOT, (SPECIAL)	EACH	4
REMOTE CONTROLLED VIDEO SYSTEM	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
LUMINAIRE INSTALLATION, TYPE 1	EACH	2
LUMINAIRE INSTALLATION, TYPE 2	EACH	2



DATE	
BY	
FINAL SURVEY	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

MATCH LINE STA. 109+00
SEE SHEET 245



CAUTION
WALK TIME SHORTENED WHEN TRAIN APPROACHES

24" x 18"
4 REQUIRED

(INCLUDED IN THE COST OF TEMPORARY TRAFFIC SIGNAL INSTALLATION)

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.

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

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

- 1 EACH CONTROLLER COMPLETE
- 2 EACH LIGHT DETECTOR
- 1 EACH LIGHT DETECTOR AMPLIFIER
- 1 EACH BLUETOOTH DETECTOR

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF LCDOT. THE CONTRACTOR SHALL SAFELY STORE AND DELIVER ALL EQUIPMENT TO BE RETURNED TO LCDOT AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

- 1 EACH ADAPTIVE CONTROL HARDWARE

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 DELIVERED TO THE COUNTY'S TRAFFIC SIGNAL MAINTENANCE CONTRACTOR'S MAIN FACILITY AS PER THE SPECIAL PROVISIONS.

- 1 EACH LAYER III (NETWORK) SWITCH
- 1 EACH REMOTE CONTROLLED VIDEO SYSTEM
- 1 EACH VIDEO ENCODER
- 1 EACH COMMUNICATIONS CABINET, COMPLETE

NOTES:

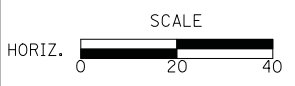
1. THE TEMPORARY LUMINAIRES SHALL BE MOUNTED ON 20' LUMINAIRE ARMS AT A HEIGHT OF 40' UNLESS STATED OTHERWISE ON THE PLANS. THIS WORK SHALL BE INCLUDED IN THE COST OF "TEMPORARY TRAFFIC SIGNAL INSTALLATION."
2. THESE HANDHOLES AND CONDUITS SHALL BE INSTALLED FOR USE WITH THE TEMPORARY TRAFFIC SIGNAL.
3. THE CONTRACTOR SHALL REMOVE THE EXISTING ADAPTIVE CONTROL EQUIPMENT AND DELIVER IT TO LCDOT FOR STORAGE, INCLUDING ALL CONNECTION CABLES WITHIN THE CABINET, MODULES, RELAYS, CAMERAS, POWER SUPPLIES AND MOUNTING HARDWARE.
4. THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE NTCIP (LATEST VERSION) COMPLIANT TO MATCH THE EXISTING SYSTEM.
5. PEDESTRIAN SIGNAL HEADS TO CROSS APTAKISIC ROAD SHALL BE BAGGED AND THE PHASES DISCONNECTED WHEN PEDESTRIAN CROSSINGS ARE NOT PERMITTED DURING CONSTRUCTION, OR AS DIRECTED BY THE ENGINEER.
6. NO CHANGES OR MODIFICATIONS TO THE RAILROAD PREEMPTION SEQUENCE SHALL BE MADE WITHOUT ILLINOIS COMMERCE COMMISSION APPROVAL.

STRUCTURE	STATION	OFFSET	HEIGHT	POSSIBLE UTILITY CONFLICTS
WP-1	111+32	53' LT	40'	UNDERGROUND COMED LINE
WP-2	109+64	53' LT	40'	NONE
WP-3	109+67	71' RT	40'	NONE
WP-4	110+34	74' RT	40'	EXISTING STORM SEWER
WP-5	112+70	57' LT	40'	NONE
WP-1 TO WP-2	SPAN WIRE			NONE
WP-2 TO WP-3	SPAN WIRE			NONE
WP-3 TO WP-4	SPAN WIRE			EXISTING AERIAL LINES
WP-4 TO WP-1	SPAN WIRE			EXISTING AERIAL LINES
WP-5 TO WP-1	SPAN WIRE			NONE

CIVILTECH
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 - 7/10/2019	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**



**TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVAL PLAN
WEILAND ROAD AT APTAKISIC ROAD**

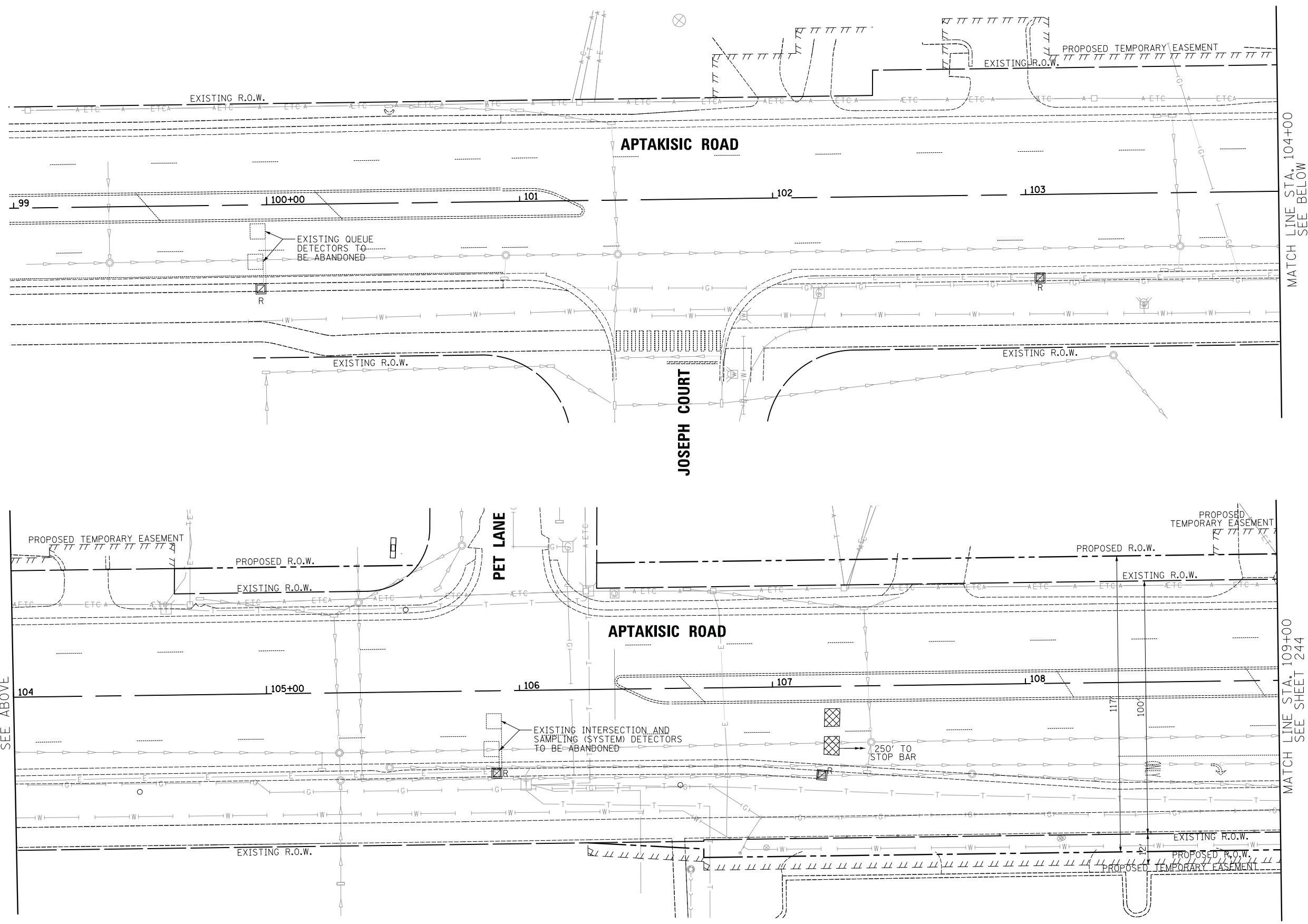
SCALE: 1" = 20' SHEET NO. 1 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2665	18-00158-13-WR	LAKE	623	244
CONTRACT NO. 61F25				
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT				



DATE	BY	SURVEYED	PLOTTED	TEMPLATE	AREAS CHECKED
		NO.			

DATE	BY	SURVEYED	PLOTTED	TEMPLATE	AREAS CHECKED
		NO.			



MATCH LINE STA. 104+00
SEE ABOVE

MATCH LINE STA. 104+00
SEE BELOW

MATCH LINE STA. 109+00
SEE SHEET 244

CIVILTECH
 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 - 7/10/2019	REVISED -

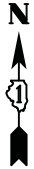
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**



**TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVAL PLAN
WEILAND ROAD AT APTAKISIC ROAD**

SCALE: 1" = 20' SHEET NO. 2 OF 2 SHEETS STA. TO STA.

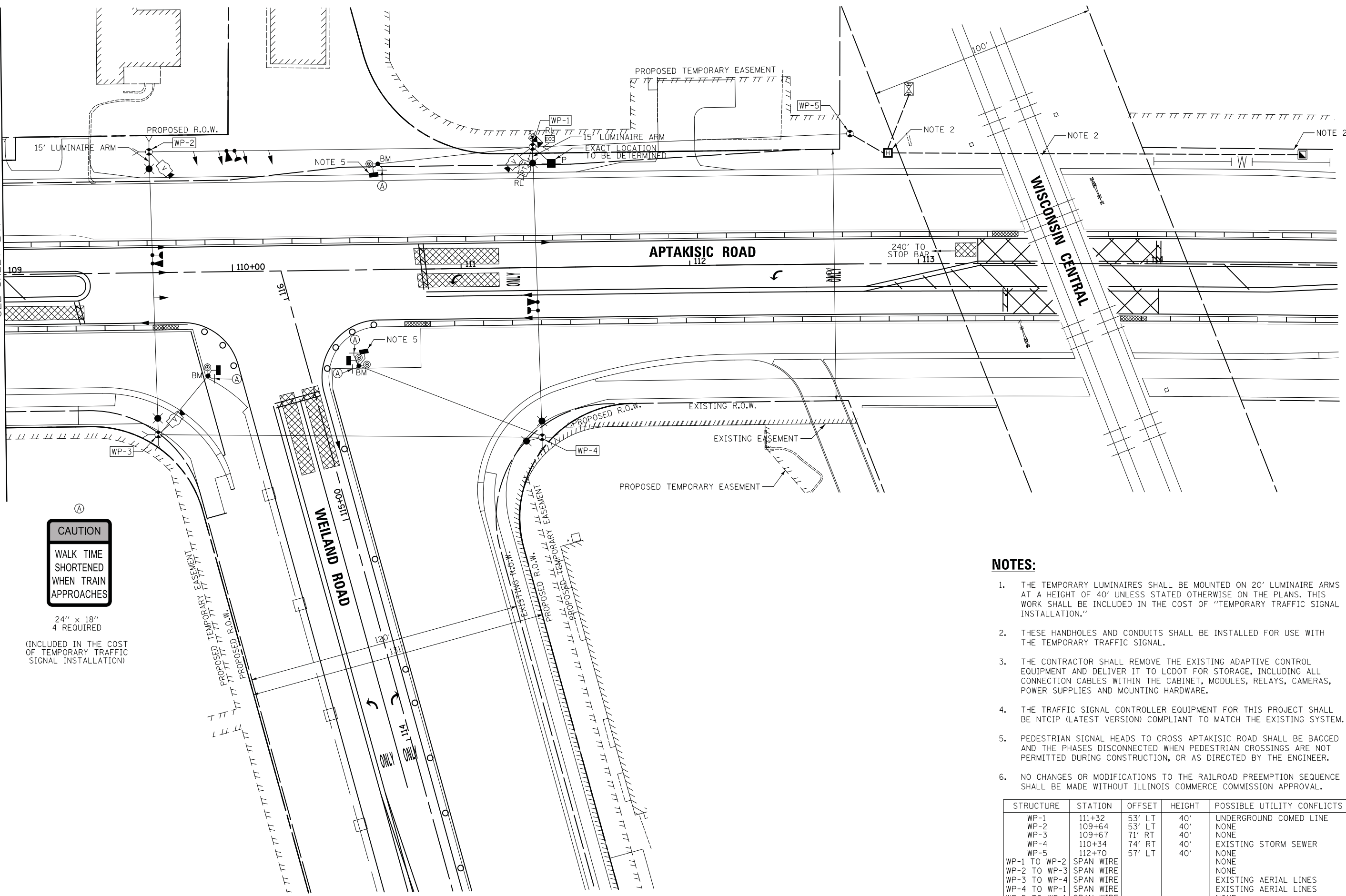
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2665	18-00158-13-WR	LAKE	623	245
CONTRACT NO. 61F25				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



DATE	
BY	
FINAL SURVEY	
NO. SURVEY	
NOTE BOOK	
AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
NO. SURVEY	
NOTE BOOK	
AREAS CHECKED	

MATCH LINE STA. 109+00
SEE SHEET 247



CAUTION
WALK TIME
SHORTENED
WHEN TRAIN
APPROACHES

24" x 18"
4 REQUIRED
(INCLUDED IN THE COST
OF TEMPORARY TRAFFIC
SIGNAL INSTALLATION)

NOTES:

1. THE TEMPORARY LUMINAIRES SHALL BE MOUNTED ON 20' LUMINAIRE ARMS AT A HEIGHT OF 40' UNLESS STATED OTHERWISE ON THE PLANS. THIS WORK SHALL BE INCLUDED IN THE COST OF "TEMPORARY TRAFFIC SIGNAL INSTALLATION."
2. THESE HANDHOLES AND CONDUITS SHALL BE INSTALLED FOR USE WITH THE TEMPORARY TRAFFIC SIGNAL.
3. THE CONTRACTOR SHALL REMOVE THE EXISTING ADAPTIVE CONTROL EQUIPMENT AND DELIVER IT TO LCDOT FOR STORAGE, INCLUDING ALL CONNECTION CABLES WITHIN THE CABINET, MODULES, RELAYS, CAMERAS, POWER SUPPLIES AND MOUNTING HARDWARE.
4. THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE NTCIP (LATEST VERSION) COMPLIANT TO MATCH THE EXISTING SYSTEM.
5. PEDESTRIAN SIGNAL HEADS TO CROSS APTAKISIC ROAD SHALL BE BAGGED AND THE PHASES DISCONNECTED WHEN PEDESTRIAN CROSSINGS ARE NOT PERMITTED DURING CONSTRUCTION, OR AS DIRECTED BY THE ENGINEER.
6. NO CHANGES OR MODIFICATIONS TO THE RAILROAD PREEMPTION SEQUENCE SHALL BE MADE WITHOUT ILLINOIS COMMERCE COMMISSION APPROVAL.

STRUCTURE	STATION	OFFSET	HEIGHT	POSSIBLE UTILITY CONFLICTS
WP-1	111+32	53' LT	40'	UNDERGROUND COMED LINE
WP-2	109+64	53' LT	40'	NONE
WP-3	109+67	71' RT	40'	NONE
WP-4	110+34	74' RT	40'	EXISTING STORM SEWER
WP-5	112+70	57' LT	40'	NONE
WP-1 TO WP-2	SPAN WIRE			NONE
WP-2 TO WP-3	SPAN WIRE			NONE
WP-3 TO WP-4	SPAN WIRE			EXISTING AERIAL LINES
WP-4 TO WP-1	SPAN WIRE			EXISTING AERIAL LINES
WP-5 TO WP-1	SPAN WIRE			NONE

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

DESIGNED - LEP
DRAWN - LEP
CHECKED - JJE
DATE - 7/10/2019

REVISED -
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**



**TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 1
WEILAND ROAD AT APTAKISIC ROAD**

SCALE: 1" = 20'

SHEET NO. 1 OF 2 SHEETS

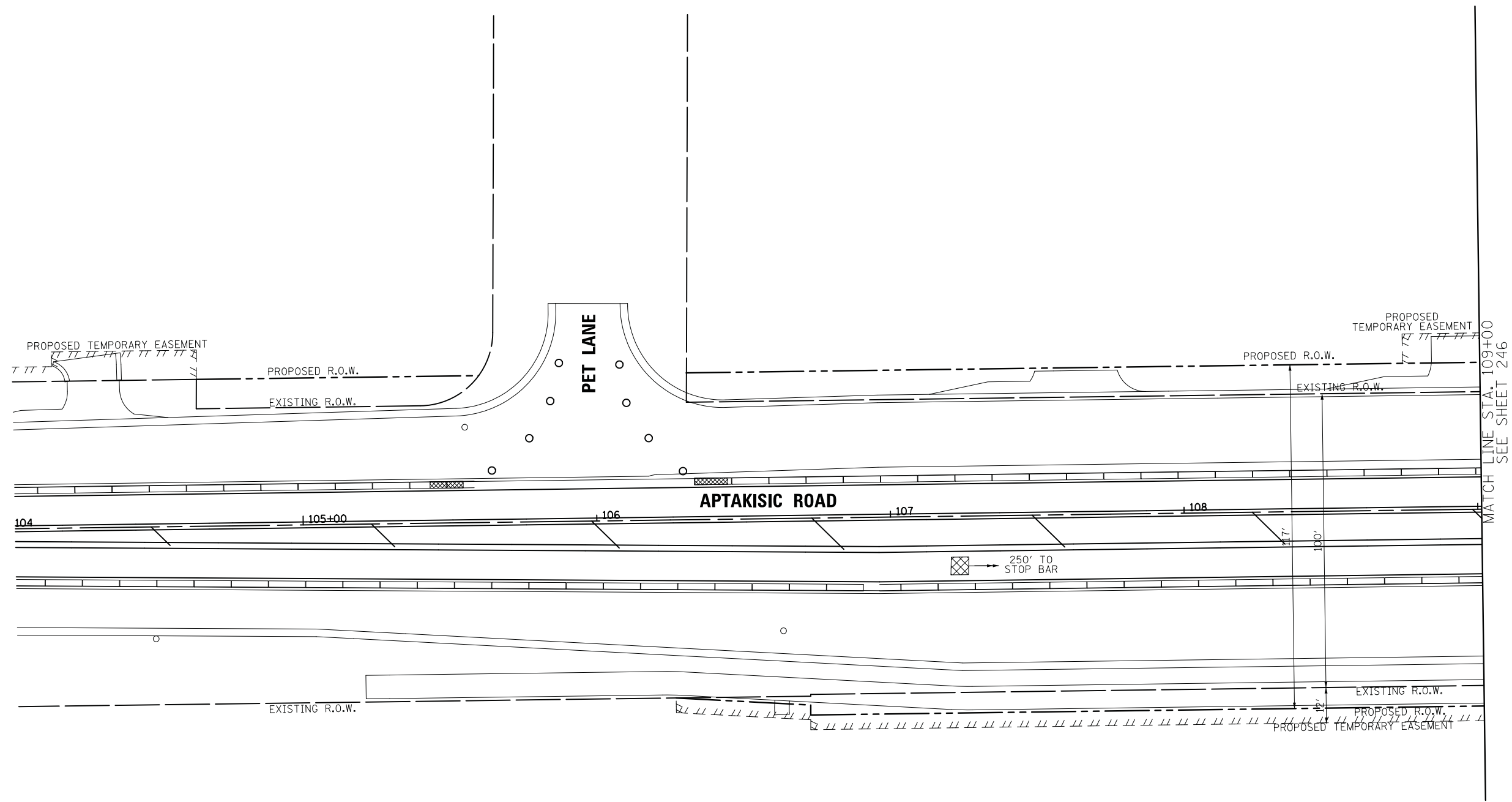
STA. TO STA.

F.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2665	18-00158-13-WR	LAKE	623	246
CONTRACT NO. 61F25				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

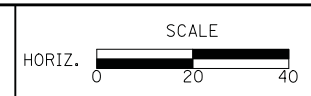
ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE



CIVILTECH
 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 - 7/10/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 1
WEILAND ROAD AT APTAKISIC ROAD

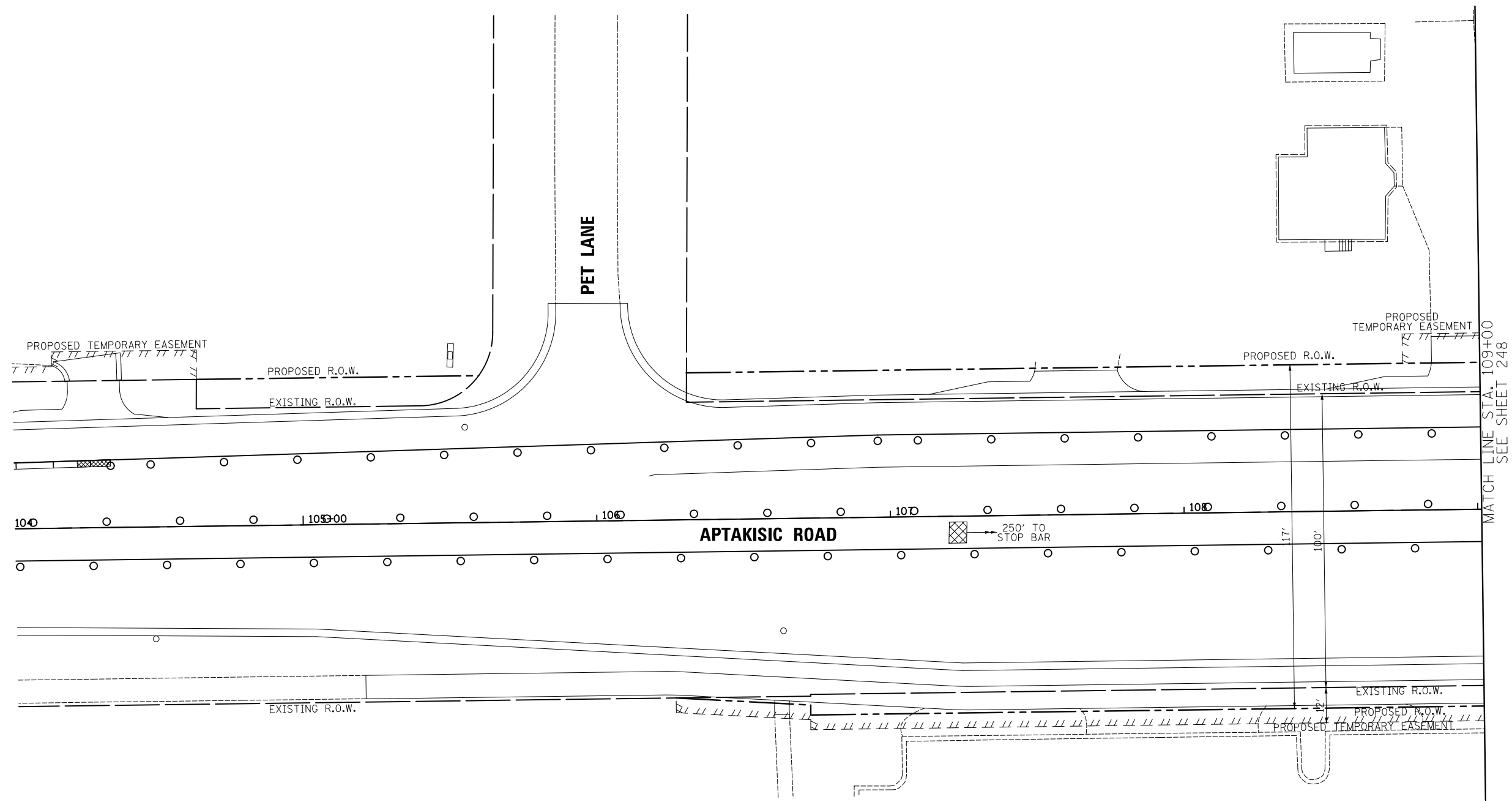
SCALE: 1" = 20' SHEET NO. 2 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2665	18-00158-13-WR	LAKE	623	247
CONTRACT NO. 61F25				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE



CIVILTECH
 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 - 7/10/2019	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**



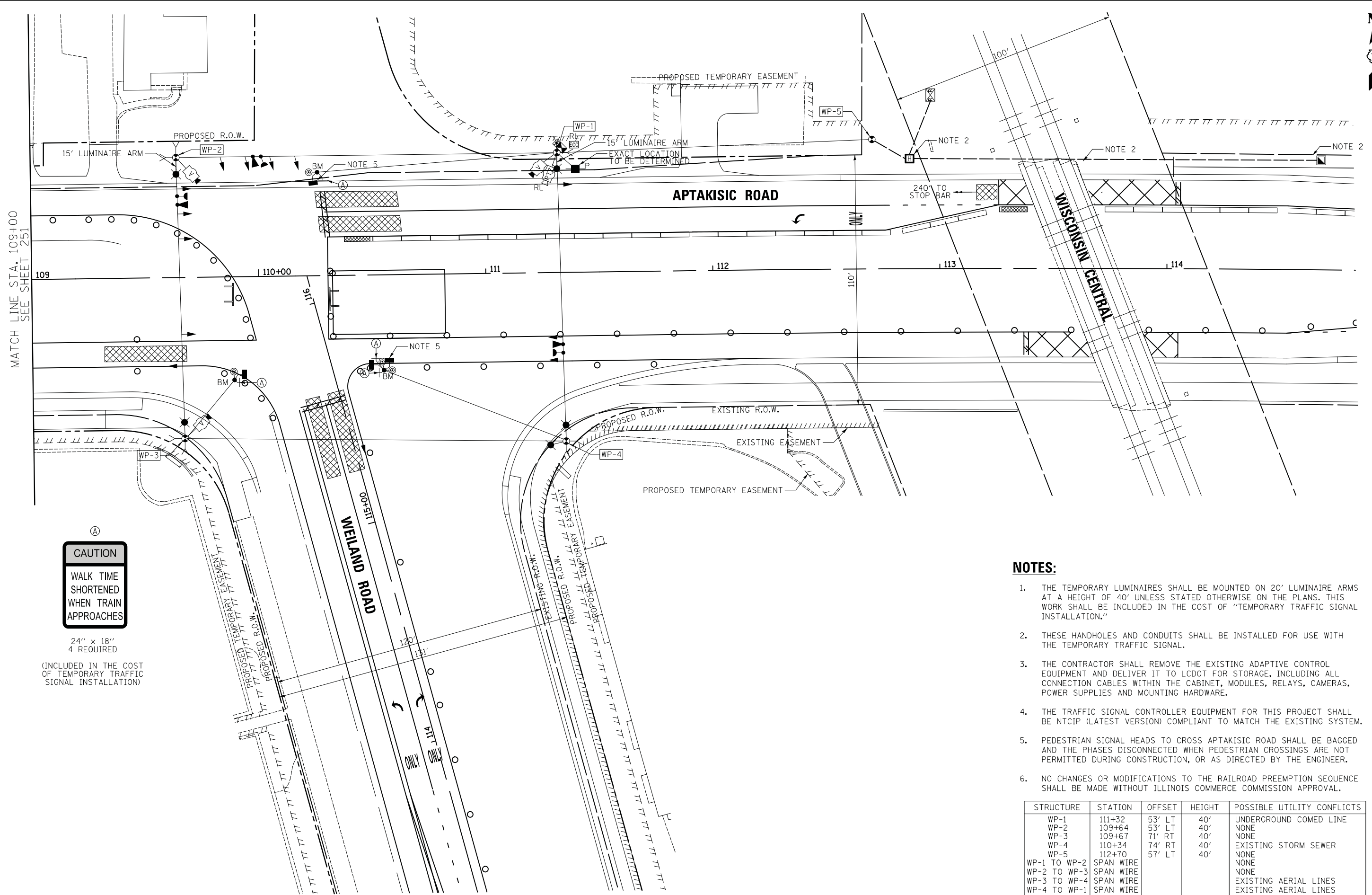
**TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 1A
 WEILAND ROAD AT APTAKISIC ROAD**

SCALE: 1" = 20' SHEET NO. 2 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2665	18-00158-13-WR	LAKE	623	249
CONTRACT NO. 61F25				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

DATE	
BY	
ORIGINAL SURVEY NO.	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY NO.	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	



NOTES:

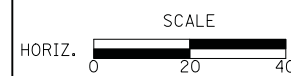
1. THE TEMPORARY LUMINAIRES SHALL BE MOUNTED ON 20' LUMINAIRE ARMS AT A HEIGHT OF 40' UNLESS STATED OTHERWISE ON THE PLANS. THIS WORK SHALL BE INCLUDED IN THE COST OF "TEMPORARY TRAFFIC SIGNAL INSTALLATION."
2. THESE HANDHOLES AND CONDUITS SHALL BE INSTALLED FOR USE WITH THE TEMPORARY TRAFFIC SIGNAL.
3. THE CONTRACTOR SHALL REMOVE THE EXISTING ADAPTIVE CONTROL EQUIPMENT AND DELIVER IT TO LCDOT FOR STORAGE, INCLUDING ALL CONNECTION CABLES WITHIN THE CABINET, MODULES, RELAYS, CAMERAS, POWER SUPPLIES AND MOUNTING HARDWARE.
4. THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE NTCIP (LATEST VERSION) COMPLIANT TO MATCH THE EXISTING SYSTEM.
5. PEDESTRIAN SIGNAL HEADS TO CROSS APTAKISIC ROAD SHALL BE BAGGED AND THE PHASES DISCONNECTED WHEN PEDESTRIAN CROSSINGS ARE NOT PERMITTED DURING CONSTRUCTION, OR AS DIRECTED BY THE ENGINEER.
6. NO CHANGES OR MODIFICATIONS TO THE RAILROAD PREEMPTION SEQUENCE SHALL BE MADE WITHOUT ILLINOIS COMMERCE COMMISSION APPROVAL.

STRUCTURE	STATION	OFFSET	HEIGHT	POSSIBLE UTILITY CONFLICTS
WP-1	111+32	53' LT	40'	UNDERGROUND COMED LINE
WP-2	109+64	53' LT	40'	NONE
WP-3	109+67	71' RT	40'	NONE
WP-4	110+34	74' RT	40'	EXISTING STORM SEWER
WP-5	112+70	57' LT	40'	NONE
WP-1 TO WP-2	SPAN WIRE			NONE
WP-2 TO WP-3	SPAN WIRE			NONE
WP-3 TO WP-4	SPAN WIRE			EXISTING AERIAL LINES
WP-4 TO WP-1	SPAN WIRE			EXISTING AERIAL LINES
WP-5 TO WP-1	SPAN WIRE			NONE

CIVILTECH
 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 - 7/10/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 1B
WEILAND ROAD AT APTAKISIC ROAD

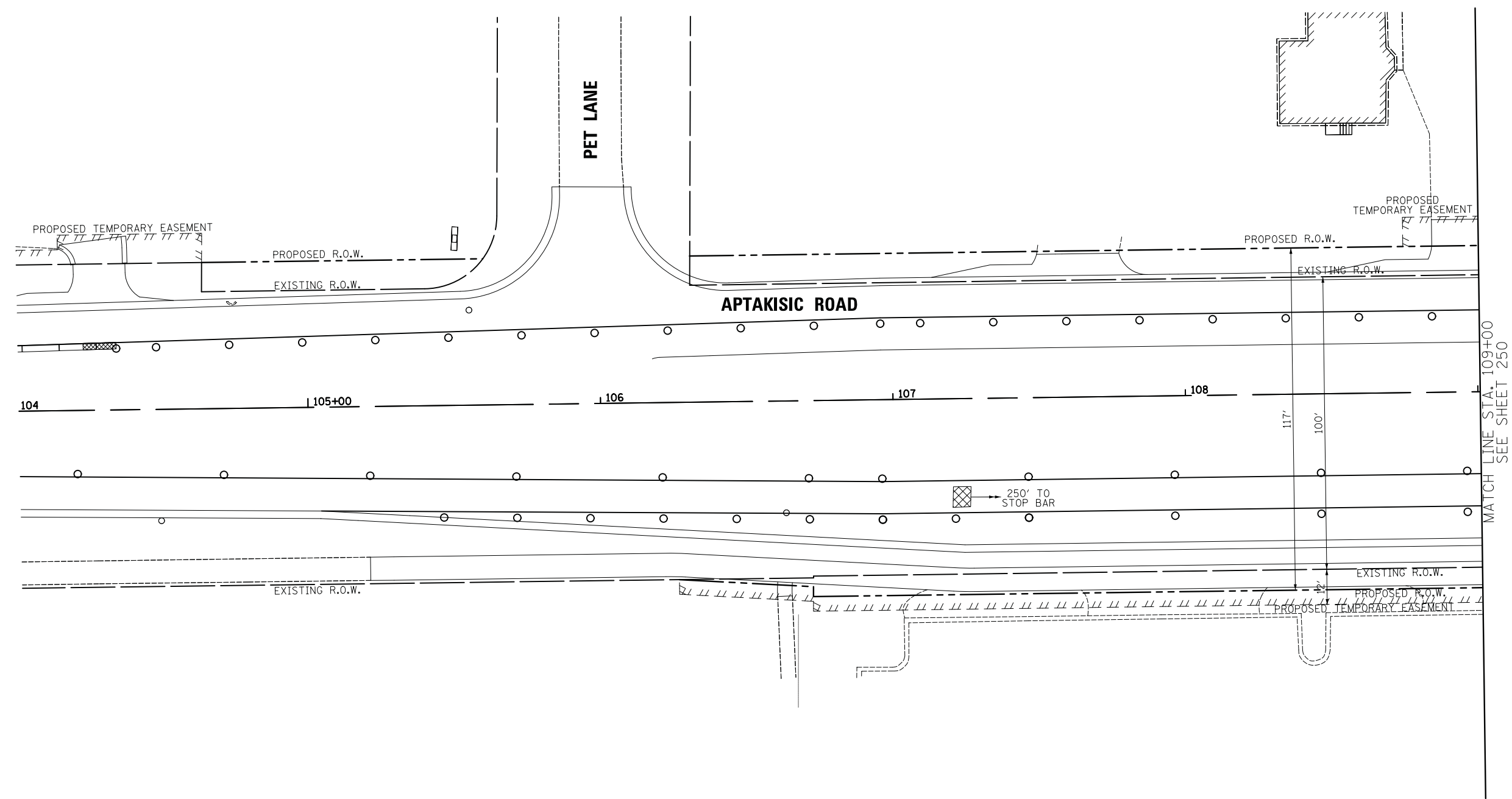
SCALE: 1" = 20' SHEET NO. 1 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2665	18-00158-13-WR	LAKE	623	250
CONTRACT NO. 61F25				
<small>FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT</small>				



FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE



CIVILTECH
 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 - 7/10/2019	REVISED -

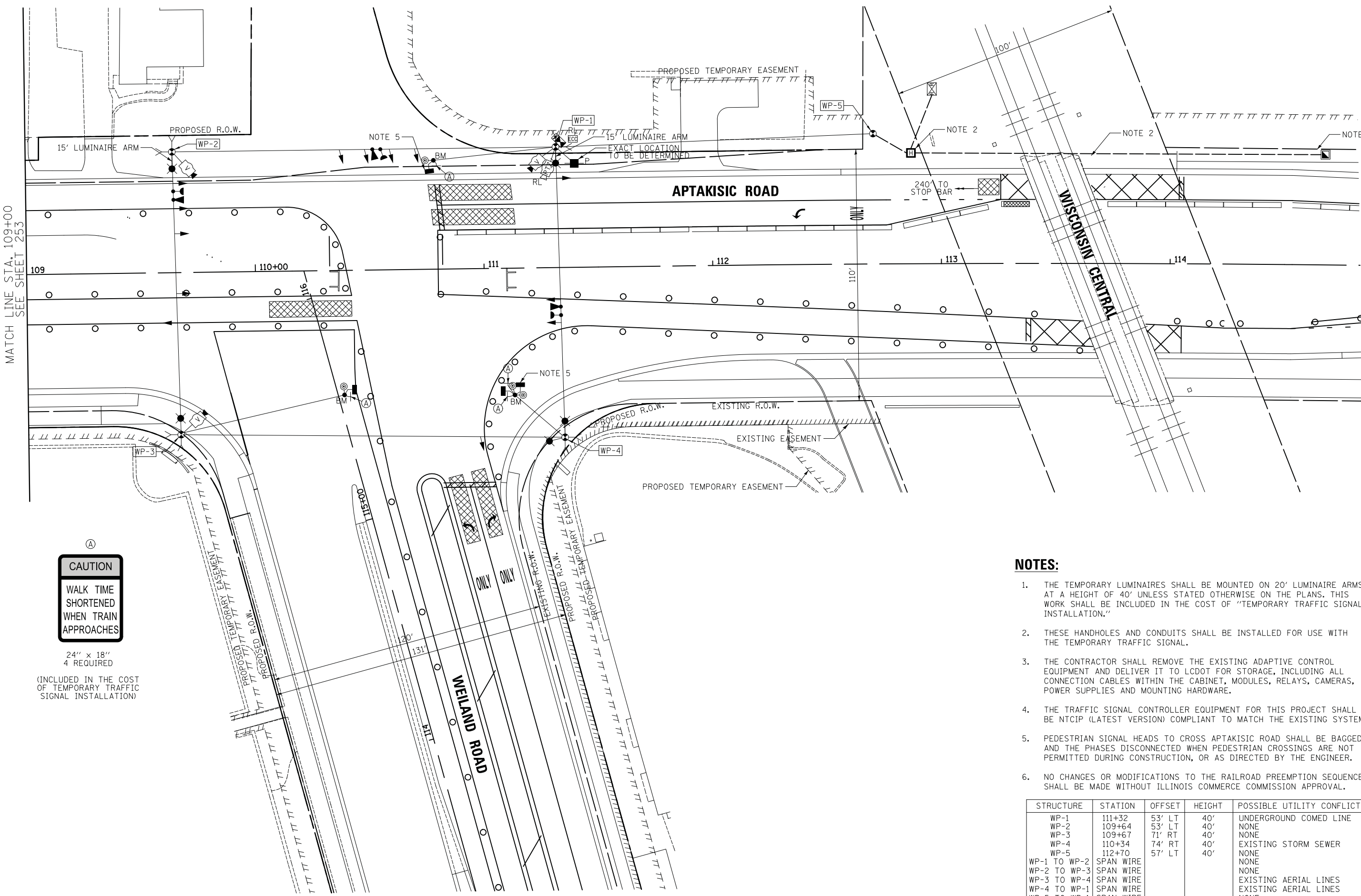
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**



**TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 1B
 WEILAND ROAD AT APTAKISIC ROAD**

SCALE: 1" = 20' SHEET NO. 2 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2665	18-00158-13-WR	LAKE	623	251
CONTRACT NO. 61F25				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



CAUTION
WALK TIME SHORTENED WHEN TRAIN APPROACHES

24" x 18" 4 REQUIRED

(INCLUDED IN THE COST OF TEMPORARY TRAFFIC SIGNAL INSTALLATION)

NOTES:

1. THE TEMPORARY LUMINAIRES SHALL BE MOUNTED ON 20' LUMINAIRE ARMS AT A HEIGHT OF 40' UNLESS STATED OTHERWISE ON THE PLANS. THIS WORK SHALL BE INCLUDED IN THE COST OF "TEMPORARY TRAFFIC SIGNAL INSTALLATION."
2. THESE HANDHOLES AND CONDUITS SHALL BE INSTALLED FOR USE WITH THE TEMPORARY TRAFFIC SIGNAL.
3. THE CONTRACTOR SHALL REMOVE THE EXISTING ADAPTIVE CONTROL EQUIPMENT AND DELIVER IT TO LCDOT FOR STORAGE, INCLUDING ALL CONNECTION CABLES WITHIN THE CABINET, MODULES, RELAYS, CAMERAS, POWER SUPPLIES AND MOUNTING HARDWARE.
4. THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE NTCIP (LATEST VERSION) COMPLIANT TO MATCH THE EXISTING SYSTEM.
5. PEDESTRIAN SIGNAL HEADS TO CROSS APTAKISIC ROAD SHALL BE BAGGED AND THE PHASES DISCONNECTED WHEN PEDESTRIAN CROSSINGS ARE NOT PERMITTED DURING CONSTRUCTION, OR AS DIRECTED BY THE ENGINEER.
6. NO CHANGES OR MODIFICATIONS TO THE RAILROAD PREEMPTION SEQUENCE SHALL BE MADE WITHOUT ILLINOIS COMMERCE COMMISSION APPROVAL.

STRUCTURE	STATION	OFFSET	HEIGHT	POSSIBLE UTILITY CONFLICTS
WP-1	111+32	53' LT	40'	UNDERGROUND COMED LINE
WP-2	109+64	53' LT	40'	NONE
WP-3	109+67	71' RT	40'	NONE
WP-4	110+34	74' RT	40'	EXISTING STORM SEWER
WP-5	112+70	57' LT	40'	NONE
WP-1 TO WP-2	SPAN WIRE			NONE
WP-2 TO WP-3	SPAN WIRE			NONE
WP-3 TO WP-4	SPAN WIRE			EXISTING AERIAL LINES
WP-4 TO WP-1	SPAN WIRE			EXISTING AERIAL LINES
WP-5 TO WP-1	SPAN WIRE			NONE

DATE	BY

DATE	BY

CIVILTECH
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 - 7/10/2019	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**



**TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 2
WEILAND ROAD AT APTAKISIC ROAD**

SCALE: 1" = 20' SHEET NO. 1 OF 2 SHEETS STA. TO STA.

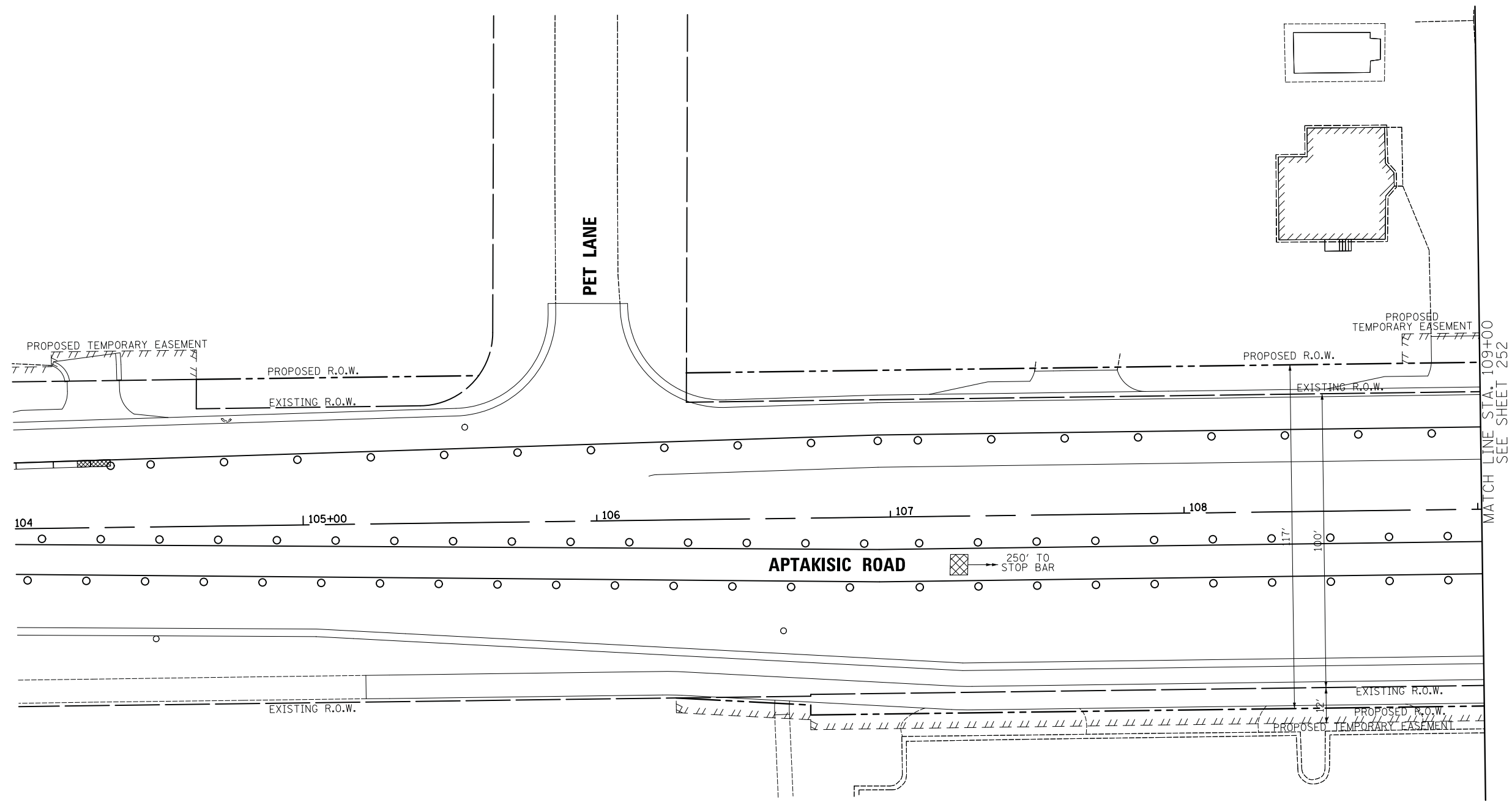
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2665	18-00158-13-WR	LAKE	623	252
CONTRACT NO. 61F25				

FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT



FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE



CIVILTECH
 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 - 7/10/2019	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**



**TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 2
 WEILAND ROAD AT APTAKISIC ROAD**

SCALE: 1" = 20' SHEET NO. 2 OF 2 SHEETS STA. TO STA.

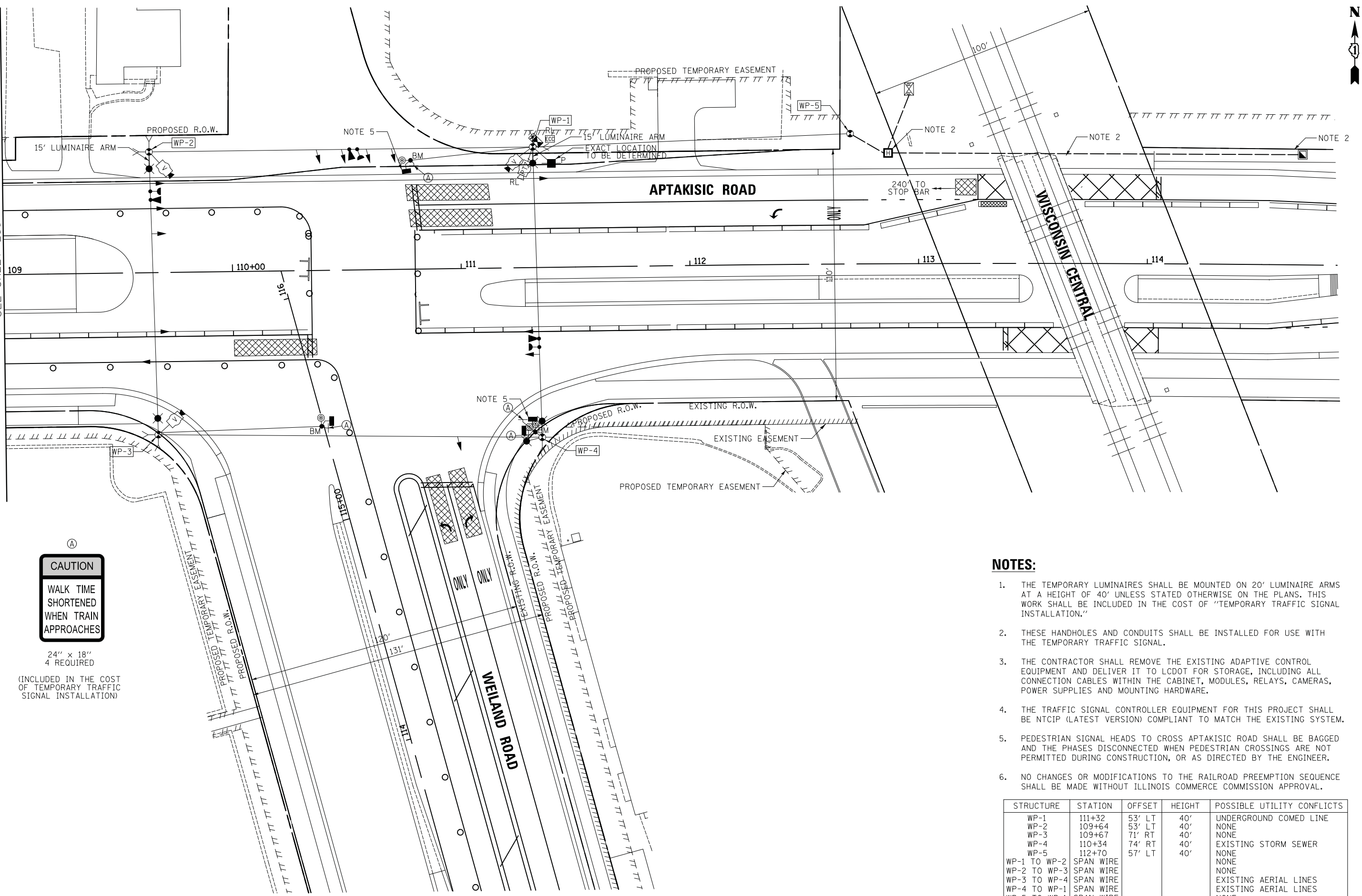
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2665	18-00158-13-WR	LAKE	623	253
CONTRACT NO. 61F25				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



DATE	
BY	
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	

DATE	
BY	
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	

MATCH LINE STA. 109+00
SEE SHEET 255



NOTES:

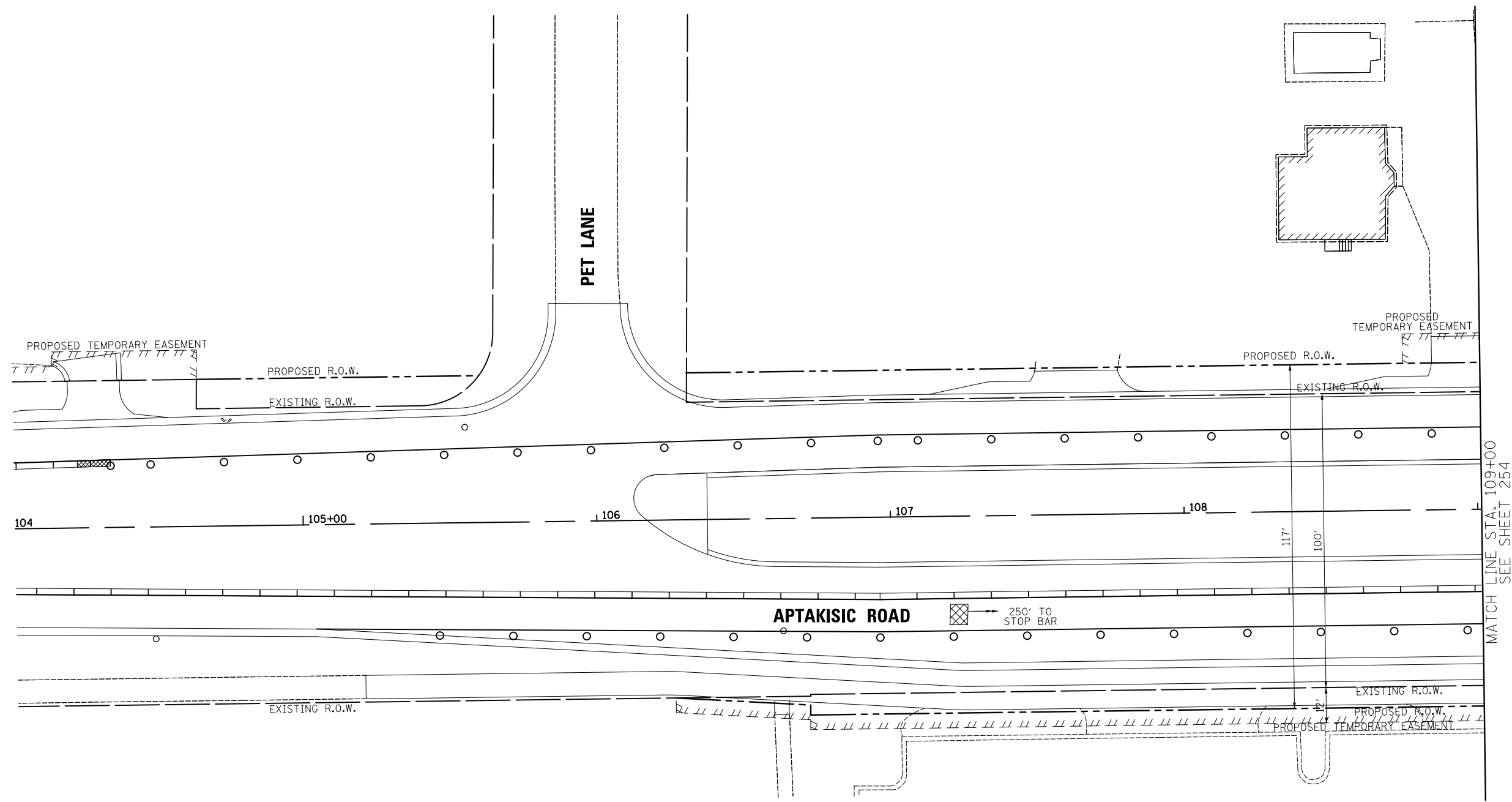
- THE TEMPORARY LUMINAIRES SHALL BE MOUNTED ON 20' LUMINAIRE ARMS AT A HEIGHT OF 40' UNLESS STATED OTHERWISE ON THE PLANS. THIS WORK SHALL BE INCLUDED IN THE COST OF "TEMPORARY TRAFFIC SIGNAL INSTALLATION."
- THESE HANDHOLES AND CONDUITS SHALL BE INSTALLED FOR USE WITH THE TEMPORARY TRAFFIC SIGNAL.
- THE CONTRACTOR SHALL REMOVE THE EXISTING ADAPTIVE CONTROL EQUIPMENT AND DELIVER IT TO LCDOT FOR STORAGE, INCLUDING ALL CONNECTION CABLES WITHIN THE CABINET, MODULES, RELAYS, CAMERAS, POWER SUPPLIES AND MOUNTING HARDWARE.
- THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE NTCIP (LATEST VERSION) COMPLIANT TO MATCH THE EXISTING SYSTEM.
- PEDESTRIAN SIGNAL HEADS TO CROSS APTAKISIC ROAD SHALL BE BAGGED AND THE PHASES DISCONNECTED WHEN PEDESTRIAN CROSSINGS ARE NOT PERMITTED DURING CONSTRUCTION, OR AS DIRECTED BY THE ENGINEER.
- NO CHANGES OR MODIFICATIONS TO THE RAILROAD PREEMPTION SEQUENCE SHALL BE MADE WITHOUT ILLINOIS COMMERCE COMMISSION APPROVAL.

STRUCTURE	STATION	OFFSET	HEIGHT	POSSIBLE UTILITY CONFLICTS
WP-1	111+32	53' LT	40'	UNDERGROUND COMED LINE
WP-2	109+64	53' LT	40'	NONE
WP-3	109+67	71' RT	40'	NONE
WP-4	110+34	74' RT	40'	EXISTING STORM SEWER
WP-5	112+70	57' LT	40'	NONE
WP-1 TO WP-2	SPAN WIRE			NONE
WP-2 TO WP-3	SPAN WIRE			NONE
WP-3 TO WP-4	SPAN WIRE			EXISTING AERIAL LINES
WP-4 TO WP-1	SPAN WIRE			EXISTING AERIAL LINES
WP-5 TO WP-1	SPAN WIRE			NONE



FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

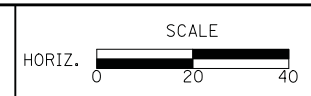
ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE



CIVILTECH
 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 - 7/10/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 2A
WEILAND ROAD AT APTAKISIC ROAD

SCALE: 1" = 20'

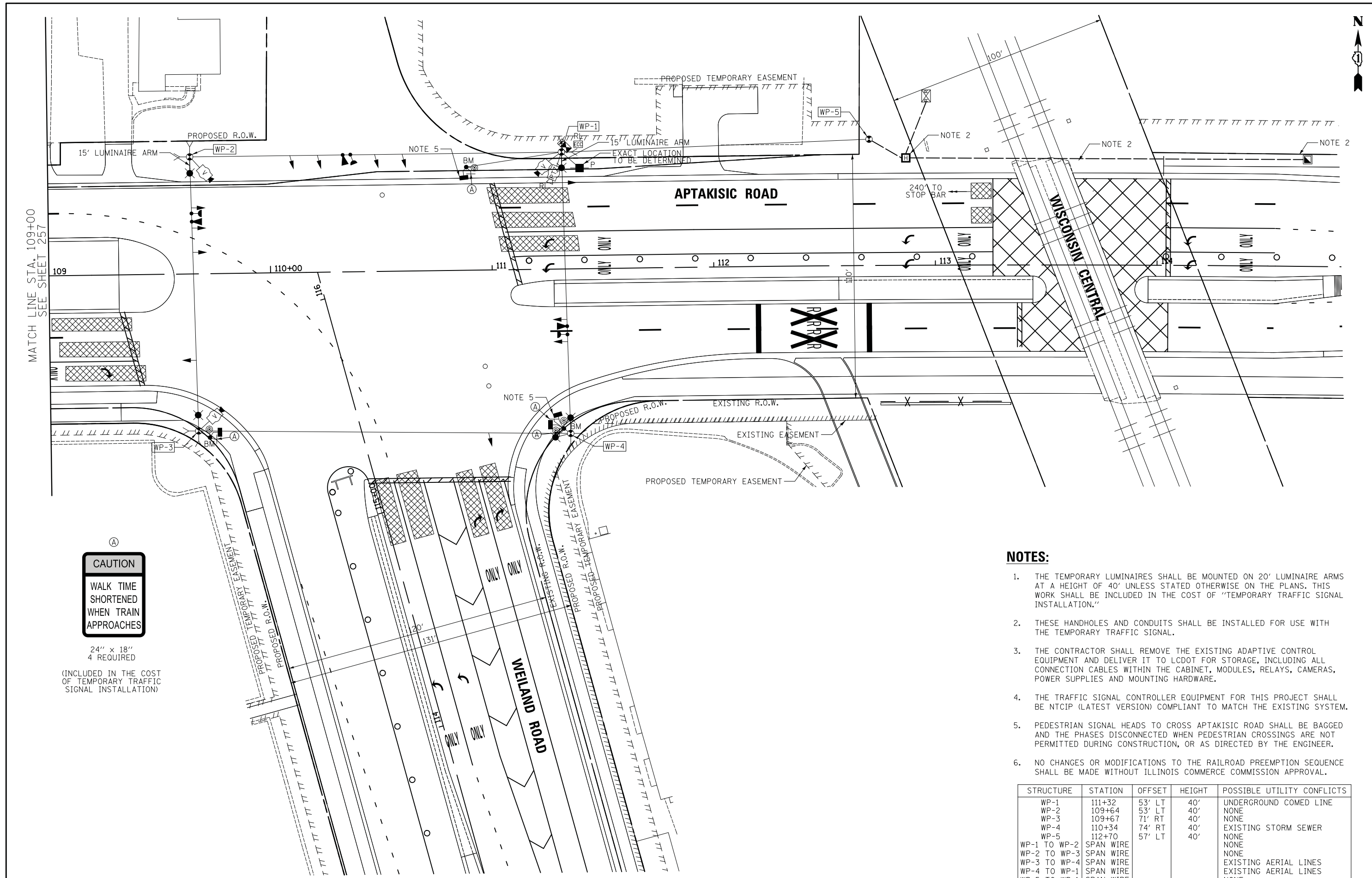
SHEET NO. 2 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2665	18-00158-13-WR	LAKE	623	255
CONTRACT NO. 61F25				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



DATE	
BY	
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	

DATE	
BY	
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	



CAUTION
 WALK TIME
 SHORTENED
 WHEN TRAIN
 APPROACHES

24" x 18"
 4 REQUIRED

(INCLUDED IN THE COST
 OF TEMPORARY TRAFFIC
 SIGNAL INSTALLATION)

NOTES:

1. THE TEMPORARY LUMINAIRES SHALL BE MOUNTED ON 20' LUMINAIRE ARMS AT A HEIGHT OF 40' UNLESS STATED OTHERWISE ON THE PLANS. THIS WORK SHALL BE INCLUDED IN THE COST OF "TEMPORARY TRAFFIC SIGNAL INSTALLATION."
2. THESE HANDHOLES AND CONDUITS SHALL BE INSTALLED FOR USE WITH THE TEMPORARY TRAFFIC SIGNAL.
3. THE CONTRACTOR SHALL REMOVE THE EXISTING ADAPTIVE CONTROL EQUIPMENT AND DELIVER IT TO LCDOT FOR STORAGE, INCLUDING ALL CONNECTION CABLES WITHIN THE CABINET, MODULES, RELAYS, CAMERAS, POWER SUPPLIES AND MOUNTING HARDWARE.
4. THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE NTCIP (LATEST VERSION) COMPLIANT TO MATCH THE EXISTING SYSTEM.
5. PEDESTRIAN SIGNAL HEADS TO CROSS APTAKISIC ROAD SHALL BE BAGGED AND THE PHASES DISCONNECTED WHEN PEDESTRIAN CROSSINGS ARE NOT PERMITTED DURING CONSTRUCTION, OR AS DIRECTED BY THE ENGINEER.
6. NO CHANGES OR MODIFICATIONS TO THE RAILROAD PREEMPTION SEQUENCE SHALL BE MADE WITHOUT ILLINOIS COMMERCE COMMISSION APPROVAL.

STRUCTURE	STATION	OFFSET	HEIGHT	POSSIBLE UTILITY CONFLICTS
WP-1	111+32	53' LT	40'	UNDERGROUND COMED LINE
WP-2	109+64	53' LT	40'	NONE
WP-3	109+67	71' RT	40'	NONE
WP-4	110+34	74' RT	40'	EXISTING STORM SEWER
WP-5	112+70	57' LT	40'	NONE
WP-1 TO WP-2	SPAN WIRE			NONE
WP-2 TO WP-3	SPAN WIRE			NONE
WP-3 TO WP-4	SPAN WIRE			EXISTING AERIAL LINES
WP-4 TO WP-1	SPAN WIRE			EXISTING AERIAL LINES
WP-5 TO WP-1	SPAN WIRE			NONE

CIVILTECH
 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 - 7/10/2019	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**



**TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 3
 WEILAND ROAD AT APTAKISIC ROAD**

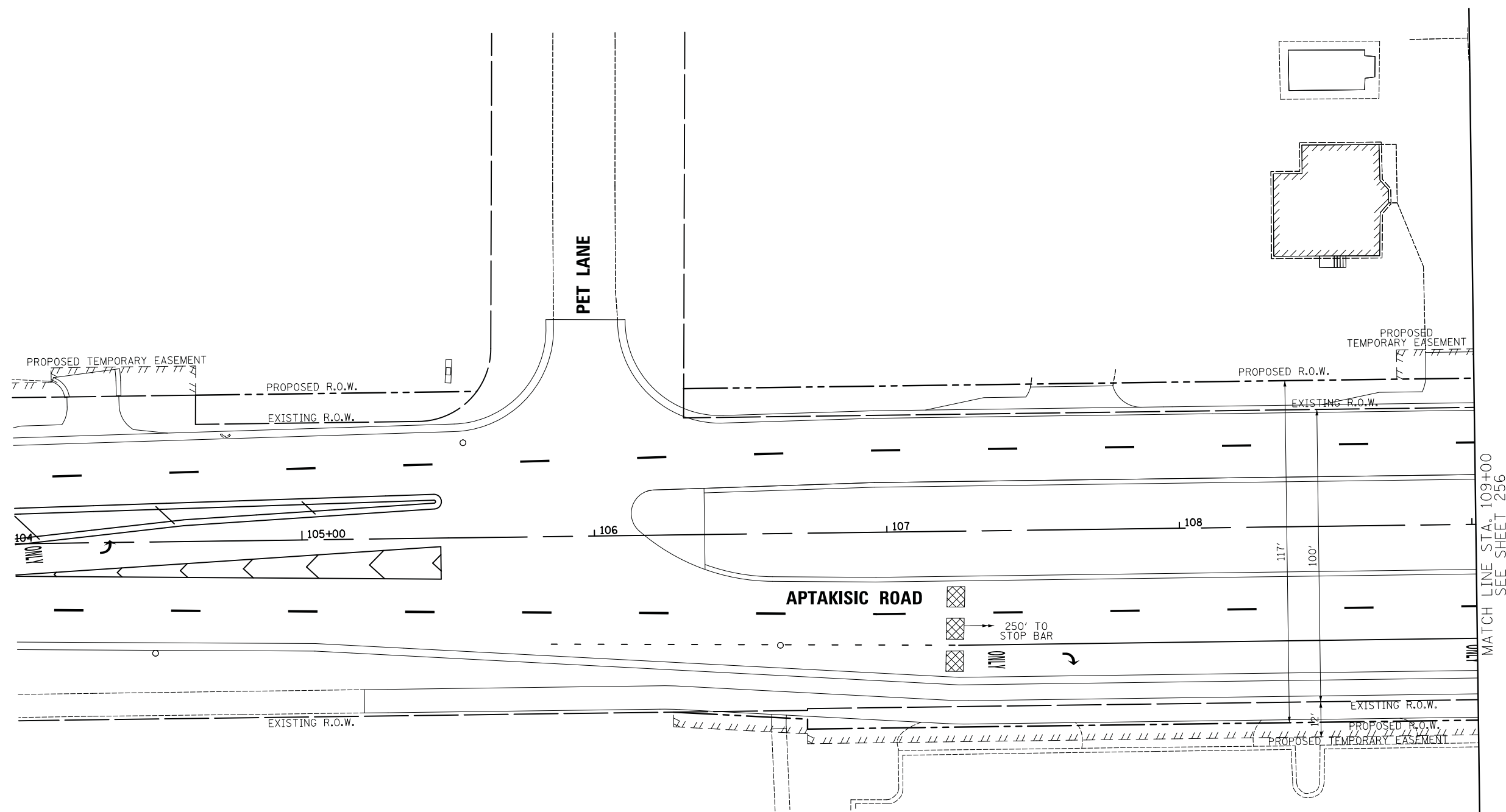
SCALE: 1" = 20' SHEET NO. 1 OF 2 SHEETS STA. TO STA.

F.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2665	18-00158-13-WR	LAKE	623	256
CONTRACT NO. 61F25				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

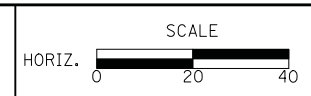
ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE



CIVILTECH
 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 - 7/10/2019	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**



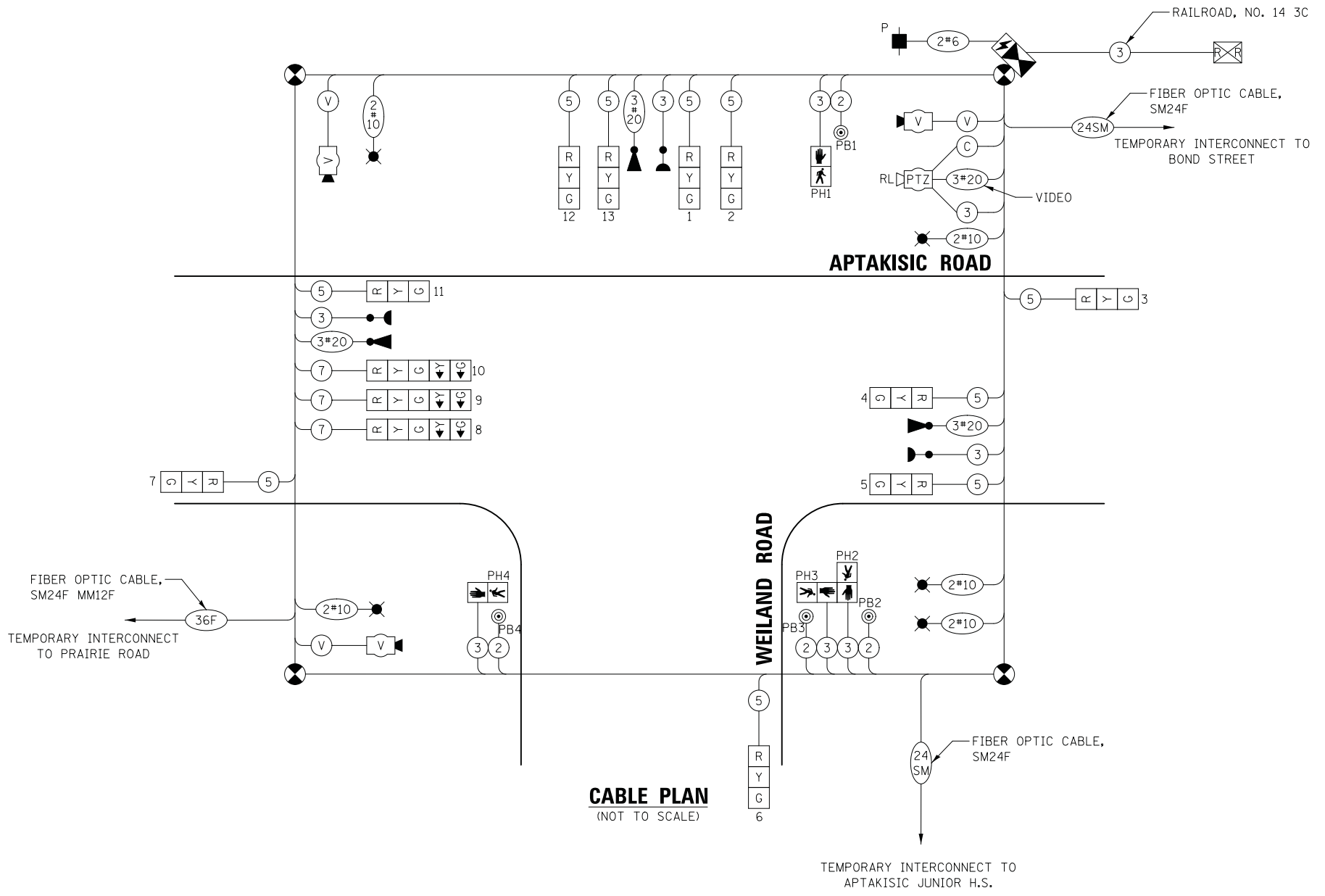
**TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 3
 WEILAND ROAD AT APTAKISIC ROAD**

SCALE: 1" = 20' SHEET NO. 2 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2665	18-00158-13-WR	LAKE	623	257
CONTRACT NO. 61F25				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

DATE	BY	SURVEYED	PLOTTED	TEMPLATE	AREAS CHECKED
NO.	NO.	NO.	NO.	NO.	NO.

DATE	BY	SURVEYED	PLOTTED	TEMPLATE	AREAS CHECKED
NO.	NO.	NO.	NO.	NO.	NO.



- NOTES:**
1. THE END OF THE TRACER CABLE SHALL BE CONTINUOUS AND EXTEND INTO THE CONTROLLER CABINET.
 2. THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT SHALL BE NTCIP (LATEST VERSION) COMPLIANT TO MATCH THE EXISTING ADJACENT SYSTEM.
 6. NO CHANGES OR MODIFICATIONS TO THE RAILROAD PREEMPTION SEQUENCE SHALL BE MADE WITHOUT ILLINOIS COMMERCE COMMISSION APPROVAL.

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
ARROW	6	10	10	6.0
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	5	400	50	1000.0
TOTAL =				1515.7

ENERGY COSTS TO:
 VILLAGE OF BUFFALO GROVE
 50 RAUPP BOULEVARD
 BUFFALO GROVE, IL 60089
 ENERGY SUPPLY: CONTACT: RUTH BOWEN
 PHONE: (847) 816-5459
 COMPANY: COMED
 ACCOUNT NUMBER: 1023097173

DESIGNED - LEP	REVISED -
DRAWN - LEP	REVISED -
CHECKED - JJE	REVISED -
DATE - 7/10/2019	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY CABLE PLAN
WEILAND ROAD AT APTAKISIC ROAD**

SCALE: NO SCALE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2665	18-00158-13-WR	LAKE	623	258
CONTRACT NO. 61F25				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

TEMPORARY SEQUENCE OF OPERATION

MOVEMENT														F L A S H
PHASE	1 + 6			2 + 6					8					
INTERVAL	1	2A	2B	3	4	5A	5B	6	7	8A	8B			
CHANGE TO	/	2 + 6		/	8		/	8		1 + 6 2 + 6				
APTAKISIC ROAD (SIGNALS 4, 5 & 7) ALL SIGNALS	EB	R	R	R	G	G	Y	R	R	R	R	R	R	
APTAKISIC ROAD (SIGNALS 3 & 11) NEAR AND FAR SIDE SPAN WIRE THRU SIGNALS	WB	G	G	G	G	Y	R	R	R	R	R	R	R	
APTAKISIC ROAD (SIGNALS 8, 9, & 10) FAR SIDE SPAN WIRE LEFT TURN - THRU SIGNALS	WB	G ←G	G ←Y	G	G	Y	R	R	R	R	R	R	R	
WEILAND ROAD (SIGNALS 1, 2, 6, 12, & 13) ALL SIGNALS	NB	R	R	R	R	R	R	R	G	G	Y	R	R	
PEDESTRIAN SIGNALS (PH3 & PH4) CROSSING WEILAND ROAD - SOUTH LEG		H	H	H	P*	FH**	H	H	H	H	H	H	H	
PEDESTRIAN SIGNALS (PH1 & PH2) CROSSING APTAKISIC ROAD - EAST LEG		H	H	H	H	H	H	P*	FH**	H	H	H	H	

- NOTE: PHASE 2 + 6 SHALL BE PLACED ON RECALL.
- TO APPEAR ONLY UPON PUSHBUTTON ACTUATION.
 - ** FLASHING IS TO TERMINATE AT THE COMPLETION OF THE PEDESTRIAN CLEARANCE INTERVAL.

P = ILLUMINATED PERSON = WALK
 FH = ILLUMINATED FLASHING HAND = FLASHING DON'T WALK
 H = ILLUMINATED SOLID HAND = DON'T WALK

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
FINAL SURVEY NOTE BOOK NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
ORIGINAL SURVEY NOTE BOOK NO.	

TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION

														PREEMPTOR NUMBER 3	PREEMPTOR NUMBER 4	
CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER		1	1	3	3	6	6									
EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1A	1B	1C	1D	1E	1F	1G	1H	1J	1K	1L	1M	2	3		CLEAR TO NORMAL SEQUENCE
CHANGE TO EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1B	2	1D	3	2	1G	1H	3	1K	1L	2	3				
APTAKISIC ROAD (SIGNALS 4, 5 & 7) ALL SIGNALS	EB	R	R	R	R	G	G	Y	R	R	R	R	R	G	R	◇
APTAKISIC ROAD (SIGNALS 3 & 11) NEAR AND FAR SIDE SPAN WIRE THRU SIGNALS	WB	G	G	Y	R	G	G	Y	R	R	R	R	R	G	R	◇
APTAKISIC ROAD (SIGNALS 8, 9, & 10) FAR SIDE SPAN WIRE LEFT TURN - THRU SIGNALS	WB	G ←Y	G	Y	R	G	G	Y	R	R	R	R	R	G	R	◇
WEILAND ROAD (SIGNALS 1, 2, 6, 12, & 13) ALL SIGNALS	NB	R	R	R	R	R	R	R	R	G	Y	R	G	R	G	◇
PEDESTRIAN SIGNALS (PH3 & PH4) CROSSING WEILAND ROAD - SOUTH LEG		H	H	H	H	FH	FH	H	H	H	H	H	H	H	H	◇
PEDESTRIAN SIGNALS (PH1 & PH2) CROSSING APTAKISIC ROAD - EAST LEG		H	H	H	H	H	H	H	H	H	FH	H	H	H	H	◇

◇ EMERGENCY VEHICLE PREEMPTION SEQUENCE SHALL PROVIDE THE PROPER CLEARANCE INTERVAL TO RESUME THE NORMAL SEQUENCE OF OPERATION OR PROPER CLEARANCE INTERVAL TO DISPLAY A DIFFERENT EMERGENCY VEHICLE PREEMPTION INTERVAL AFTER EMERGENCY VEHICLE PREEMPTION INTERVAL 2 OR 3 IS TERMINATED.

TEMPORARY RAILROAD PREEMPTION SEQUENCE OF OPERATION

CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER		1	3	6												
CHANGE FROM EMERGENCY VEHICLE PREEMPTION SEQUENCE INTERVAL NUMBER					2	3										
RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1A	1B	1C	1D	1E	1G	1H	1J	1K	2	3	4	5			CLEAR TO NORMAL SEQUENCE
CHANGE TO RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	2	1C	2	1E	2	1H	2	1K	2	3	4	5				
APTAKISIC ROAD (SIGNALS 4, 5 & 7) ALL SIGNALS	EB	R	Y	R	R	R	Y	R	R	R	R	R	R			△
APTAKISIC ROAD (SIGNALS 3 & 11) NEAR AND FAR SIDE SPAN WIRE THRU SIGNALS	WB	G	G	G	R	R	G	G	R	R	G	Y	R	R		△
APTAKISIC ROAD (SIGNALS 8, 9, & 10) FAR SIDE SPAN WIRE LEFT TURN - THRU SIGNALS	WB	G ←G	G	G	R	R	G	G	R	R	G ←G	Y	R	R		△
WEILAND ROAD (SIGNALS 1, 2, 6, 12, & 13) ALL SIGNALS	NB	R	R	R	Y	R	R	R	Y	R	R	R	G			△
PEDESTRIAN SIGNALS (PH3 & PH4) CROSSING WEILAND ROAD - SOUTH LEG		H	FH	H	H	H	H	H	H	H	H	H	H			△
PEDESTRIAN SIGNALS (PH1 & PH2) CROSSING APTAKISIC ROAD - EAST LEG		H	H	H	FH	H	H	H	H	H	H	H	H			△

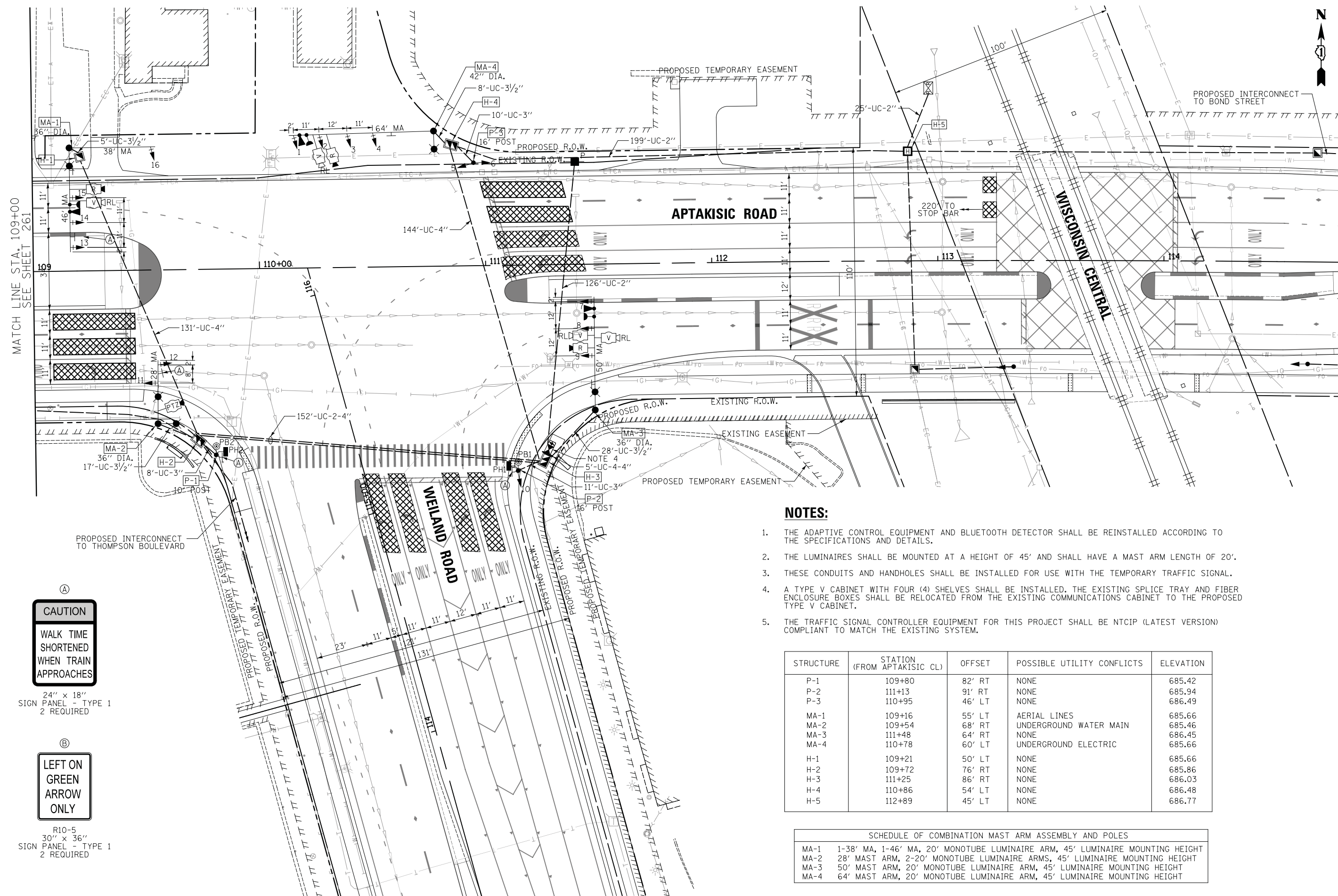
△ RAILROAD PREEMPTION SEQUENCE SHALL PROVIDE THE PROPER CLEARANCE INTERVAL TO RESUME THE NORMAL SEQUENCE OF OPERATION OR PROPER CLEARANCE INTERVAL TO DISPLAY AN EMERGENCY VEHICLE PREEMPTION INTERVAL (IF APPLICABLE) AFTER RAILROAD PREEMPTION INTERVAL 5 IS TERMINATED.

P = ILLUMINATED PERSON = WALK
 FH = ILLUMINATED FLASHING HAND = FLASHING DON'T WALK
 H = ILLUMINATED SOLID HAND = DON'T WALK

HOLD

DATE	
BY	
FINAL SURVEY PLOTTED	
NOTE BOOK AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY PLOTTED	
NOTE BOOK AREAS CHECKED	



MATCH LINE STA. 109+00
SEE SHEET 261

CAUTION
WALK TIME SHORTENED WHEN TRAIN APPROACHES
24" x 18" SIGN PANEL - TYPE 1
2 REQUIRED

LEFT ON GREEN ARROW ONLY
R10-5
30" x 36" SIGN PANEL - TYPE 1
2 REQUIRED

NOTES:

1. THE ADAPTIVE CONTROL EQUIPMENT AND BLUETOOTH DETECTOR SHALL BE REINSTALLED ACCORDING TO THE SPECIFICATIONS AND DETAILS.
2. THE LUMINAIRES SHALL BE MOUNTED AT A HEIGHT OF 45' AND SHALL HAVE A MAST ARM LENGTH OF 20'.
3. THESE CONDUITS AND HANDHOLES SHALL BE INSTALLED FOR USE WITH THE TEMPORARY TRAFFIC SIGNAL.
4. A TYPE V CABINET WITH FOUR (4) SHELVES SHALL BE INSTALLED. THE EXISTING SPLICE TRAY AND FIBER ENCLOSURE BOXES SHALL BE RELOCATED FROM THE EXISTING COMMUNICATIONS CABINET TO THE PROPOSED TYPE V CABINET.
5. THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE NTCIP (LATEST VERSION) COMPLIANT TO MATCH THE EXISTING SYSTEM.

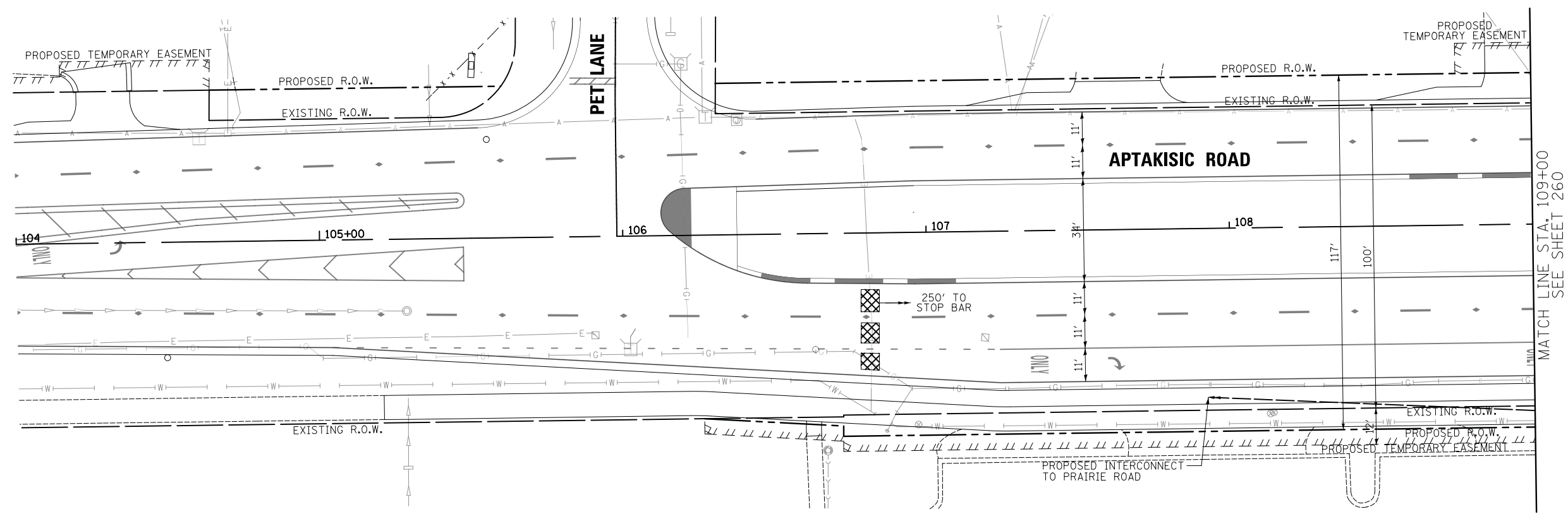
STRUCTURE	STATION (FROM APTAKISIC CL)	OFFSET	POSSIBLE UTILITY CONFLICTS	ELEVATION
P-1	109+80	82' RT	NONE	685.42
P-2	111+13	91' RT	NONE	685.94
P-3	110+95	46' LT	NONE	686.49
MA-1	109+16	55' LT	AERIAL LINES	685.66
MA-2	109+54	68' RT	UNDERGROUND WATER MAIN	685.46
MA-3	111+48	64' RT	NONE	686.45
MA-4	110+78	60' LT	UNDERGROUND ELECTRIC	685.66
H-1	109+21	50' LT	NONE	685.66
H-2	109+72	76' RT	NONE	685.86
H-3	111+25	86' RT	NONE	686.03
H-4	110+86	54' LT	NONE	686.48
H-5	112+89	45' LT	NONE	686.77

SCHEDULE OF COMBINATION MAST ARM ASSEMBLY AND POLES	
MA-1	1-38' MA, 1-46' MA, 20' MONOTUBE LUMINAIRE ARM, 45' LUMINAIRE MOUNTING HEIGHT
MA-2	28' MAST ARM, 2-20' MONOTUBE LUMINAIRE ARMS, 45' LUMINAIRE MOUNTING HEIGHT
MA-3	50' MAST ARM, 20' MONOTUBE LUMINAIRE ARM, 45' LUMINAIRE MOUNTING HEIGHT
MA-4	64' MAST ARM, 20' MONOTUBE LUMINAIRE ARM, 45' LUMINAIRE MOUNTING HEIGHT



DATE	BY	SURVEYED	PLOTTED	TEMPLE	AREAS CHECKED
NO.		FINISH	NO. BOOK	NO.	

DATE	BY	SURVEYED	PLOTTED	TEMPLE	AREAS CHECKED
NO.		ORIGINAL	NO. BOOK	NO.	

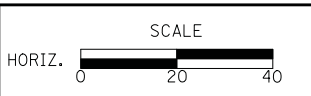


MATCH LINE STA. 109+00
SEE SHEET 260

CIVILTECH
 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 - 7/10/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



TRAFFIC SIGNAL MODERNIZATION PLAN
WEILAND ROAD AT APTAKISIC ROAD

SCALE: 1" = 20' SHEET NO. 2 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2665	18-00158-13-WR	LAKE	623	261
CONTRACT NO. 61F25				
<small>FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT</small>				

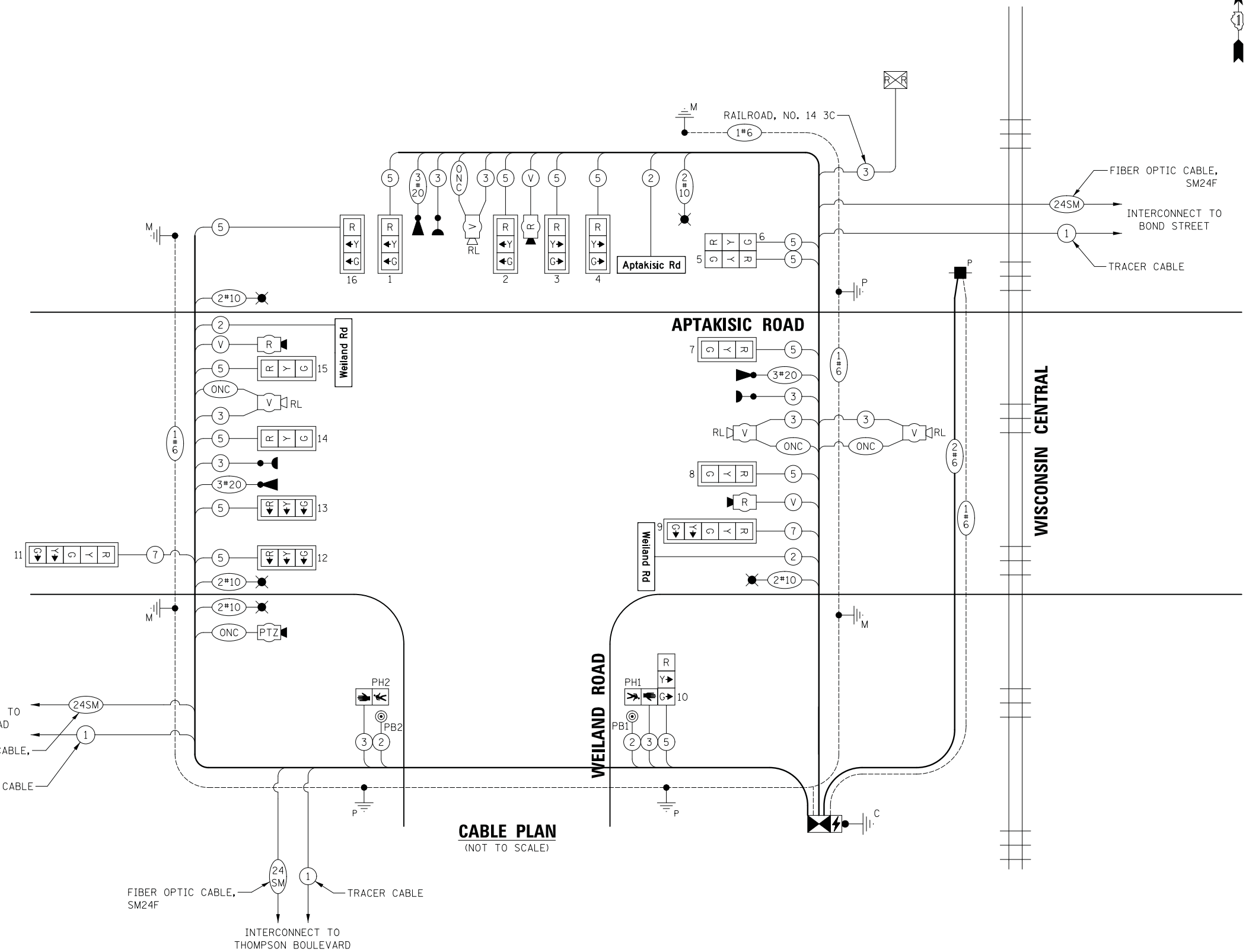


DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	

NOTES:

- LED INTERNALLY ILLUMINATED STREET NAME SIGNS AND LUMINAIRES SHALL NOT BE CONNECTED TO THE UNINTERRUPTIBLE POWER SUPPLY UNIT.
- THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE NTCIP (LATEST VERSION) COMPLIANT TO MATCH THE EXISTING SYSTEM.
- THE END OF THE TRACER CABLE SHALL BE CONTINUOUS AND EXTEND INTO THE CONTROLLER CABINET.
- THE ADAPTIVE CONTROL EQUIPMENT SHALL BE REINSTALLED ACCORDING TO THE SPECIFICATIONS AND DETAILS.



CABLE PLAN
(NOT TO SCALE)

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)	16	12	45	86.4
ARROW	4	10	10	4.0
PED. SIGNAL	2	20	100	40.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	3	120	50	180.0
LUMINAIRE	5	268	50	670.0
TOTAL =				1359.4

ENERGY COSTS TO:
 VILLAGE OF BUFFALO GROVE
 50 RAUPP BOULEVARD
 BUFFALO GROVE, IL 60089
 ENERGY SUPPLY: CONTACT: RUTH BOWEN
 PHONE: (847) 816-5459
 COMPANY: COMED
 ACCOUNT NUMBER: 1023097173



DESIGNED - LEP	REVISED -
DRAWN - LEP	REVISED -
CHECKED - JJE	REVISED -
DATE - 7/10/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN
WEILAND ROAD AT APTAKISIC ROAD

SCALE: NO SCALE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

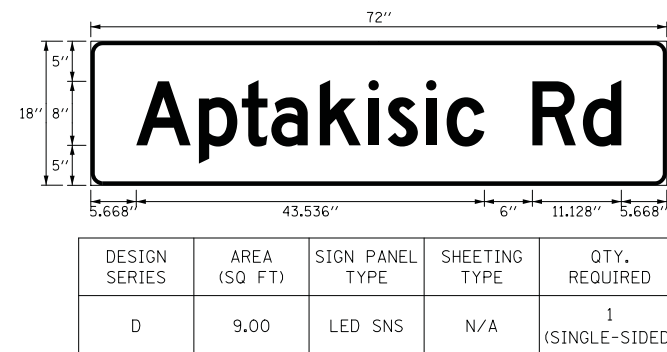
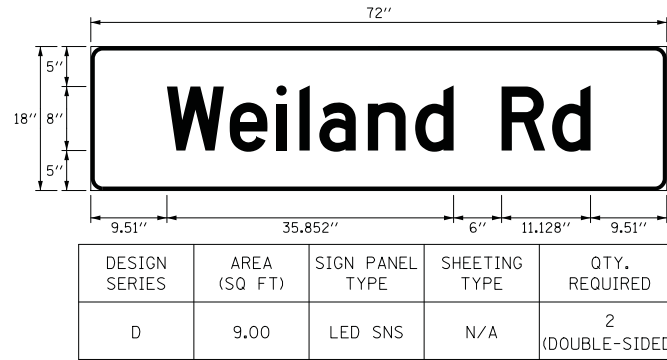
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2665	18-00158-13-WR	LAKE	623	262
CONTRACT NO. 61F25				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

SCHEDULE OF QUANTITIES:

PAYITEM	UNIT	QNTY.
SIGNPANEL- TYPE1	SQFT	21
SERVICINSTALLATION POLEMOUNTED	EACH	1
UNDERGROUND CONDUIT,GALVANIZED STEEL 2" DIA.	FOOT	350
UNDERGROUND CONDUIT,GALVANIZED STEEL 3" DIA.	FOOT	29
UNDERGROUND CONDUIT,GALVANIZED STEEL 3 1/2" DIA.	FOOT	58
UNDERGROUND CONDUIT,GALVANIZED STEEL 4" DIA.	FOOT	599
HANDHOLE	EACH	1
HEAVY-DUTMANDHOLE	EACH	1
DOUBLHANDHOLE	EACH	3
ELECTRICABLEIN CONDUIT,600V (XLP-TYPE)USE)1/C NO. 10	FOOT	2654
ELECTRICABLEIN CONDUIT,SIGNALNO. 14 2C	FOOT	926
ELECTRICABLEIN CONDUIT,SIGNALNO. 14 3C	FOOT	1942
ELECTRICABLEIN CONDUIT,SIGNALNO. 14 5C	FOOT	3558
ELECTRICABLEIN CONDUIT,SIGNALNO. 14 7C	FOOT	347
ELECTRICABLEIN CONDUIT,RAILROADNO. 14 3C	FOOT	415
ELECTRICABLEIN CONDUIT,SERVICE)NO. 6 2C	FOOT	146
ELECTRICABLEIN CONDUIT,EQUIPMENTGROUNDING)CONDUCTORNO. 6 1C	FOOT	992
CONCRETEFOUNDATION)TYPEA	FOOT	12
CONCRETEFOUNDATION)TYPEC	FOOT	4
CONCRETEFOUNDATION)TYPEE 36-INCHDIAMETER	FOOT	31
CONCRETEFOUNDATION)TYPEE 42-INCHDIAMETER	FOOT	21
SIGNALHEAD,LED,1-FACE,3-SECTIONMAST-ARMOUNTED	EACH	11
SIGNALHEAD,LED,1-FACE,3-SECTIONBRACKETMOUNTED	EACH	3
SIGNALHEAD,LED,1-FACE,5-SECTIONMAST-ARMOUNTED	EACH	2
PEDESTRIASIGNALHEAD,LED,1-FACE,BRACKETMOUNTED	EACH	2
TRAFFISIGNALBACKPLATE,OUVERED)FORMED)PLASTIC	EACH	13
LIGHTDETECTOR	EACH	3
LIGHTDETECTOR)AMPLIFIER	EACH	1
PEDESTRIAPUSH-BUTTON	EACH	2
TEMPORARYTRAFFISIGNALINSTALLATION	EACH	1
REMOVEEXISTINGTRAFFISIGNALEQUIPMENT	EACH	1
REMOVEEXISTINGHANDHOLE	EACH	11
REMOVEEXISTING)CONCRETEFOUNDATION	EACH	10
EMERGEN)VEHICLE)PRIORITY)SYSTEM,LINE)SENSOR)CABLE)NO. 20 3/C	FOOT	780
RELOCATEEXISTING)TS CONTROLLE)CABINET	EACH	1
RELOCATE)SWITCH	EACH	1
LEDINTERNAL)ILLUMINATE)STREET)NAMESIGN	EACH	3
OUTDOORRATED)NETWORK)CABLE	FOOT	1171
UNINTERRUPTABLE)D)WERSUPPLY)AND)CABINETS)SPECIAL	EACH	1
RELOCATEEXISTING)ENCODER	EACH	1
RAILROAD)FULL-ACTUATED)CONTROLLE)AND)TYPEV) CABINETS)SPECIAL	EACH	1
STEELCOMBINATION)MAST)ARMASSEMBLY)AND)POLE)28 FT. (SPECIAL)	EACH	1
STEELCOMBINATION)MAST)ARMASSEMBLY)AND)POLE)50 FT. (SPECIAL)	EACH	1
TRAFFISIGNALPOST,10 FOOT, (SPECIAL)	EACH	1
TRAFFISIGNALPOST,16 FOOT, (SPECIAL)	EACH	2
REMOTE)CONTROLLE)VIDEOSYSTEM	EACH	1
LAYERII (NETWORK)SWITCH	EACH	1
LUMINAIRE)INSTALLATION)TYPE2	EACH	5
RELOCATEEXISTING)REMOTE-CONTROLLE)VIDEOSYSTEM	EACH	1
TEMPORARYTRAFFISIGNALTIMING	EACH	1
RADAR)VEHICLE)DETECTION)SYSTEMS)SINGLE)APPROACH)STOP)BAR)AND)FAR)BACK	EACH	3
RELOCATEEXISTING)ADAPTIVE)SIGNAL)SYSTEM	EACH	1
STEELCOMBINATION)MAST)ARMASSEMBLY)AND)POLE)64 FT. (SPECIAL)	EACH	1
STEELCOMBINATION)MAST)ARMASSEMBLY)AND)POLE)WITH)DUAL)MAST)ARMS,1-38 FT. 1-46 FT. (SPECIAL)	EACH	1



PROPOSED SEQUENCE OF OPERATION

MOVEMENT	← 6		← 6						← 6						FLASH		
	↑ N		← 6						← 6								
PHASE	1 + 6		2 + 6						3 + 8								
INTERVAL	1	2A	2B	3	4	5A	5B	6A	6B	7	8A	8B	9A	9B			
CHANGE TO	/		2 + 6		/		1 + 6		3 + 8		/		1 + 6		2 + 6		/
APTAKISIC ROAD (SIGNALS 5, 7 & 8) FAR LEFT, LEFT AND CENTER MAST ARM SIGNALS	5,7,8	EB	R	R	R	G	G	Y	R	Y	R	R	R	R	R	R	R
APTAKISIC ROAD (SIGNALS 9 & 11) RIGHT MAST ARM AND NEAR RIGHT SIGNALS	9,11	EB	R	R	R	G	G	Y	R	Y	R	R	R	R	R	R	R
APTAKISIC ROAD (SIGNALS 12 & 13) FAR LEFT AND LEFT MAST ARM SIGNALS	12,13	WB	←G	←Y	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R
APTAKISIC ROAD (SIGNALS 14 & 15) CENTER AND RIGHT MAST ARM, NEAR RIGHT SIGNALS	14,15	WB	G	G	G	G	G	G	Y	R	R	R	R	R	R	R	R
WEILAND ROAD (SIGNALS 1, 2 & 16) FAR LEFT AND LEFT MAST ARM SIGNALS	1,2,16	NB	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
WEILAND ROAD (SIGNALS 3, 4 & 10) RIGHT MAST ARM AND NEAR RIGHT SIGNALS	3,4,10	NB	G→	Y→	R	R	R	R	R	R	R	R	R	R	R	R	R
PEDESTRIAN SIGNALS (PH1 & PH2) CROSSING WEILAND ROAD - SOUTH LEG	PH1,PH2		H	H	H	P*	FH**	H	H	H	H	H	H	H	H	H	H

NOTE: PHASES 2 + 6 SHALL BE PLACED ON RECALL

• TO APPEAR ONLY UPON PUSHBUTTON ACTUATION.

** FLASHING IS TO TERMINATE AT THE COMPLETION OF THE PEDESTRIAN CLEARANCE INTERVAL.

P = ILLUMINATED PERSON = WALK

FH = ILLUMINATED FLASHING HAND = FLASHING DON'T WALK

H = ILLUMINATED SOLID HAND = DON'T WALK

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION

CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER	1		1		1		3			3			3			7		7		PREEMPTOR NUMBER 3	PREEMPTOR NUMBER 4	PREEMPTOR NUMBER 5	CLEAR TO NORMAL SEQUENCE	
	1A	1B	1C	1D	1E	1F	1G	1H	1J	1K	1L	1M	1N	1P	1Q	1R	1S	1T	1V	2	3	4		
EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1B	2	1D	3	1F	4	1H	1J	2	1L	1M	3	1P	1Q	4	1S	2 OR 3	1V	4					
CHANGE TO EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	/																							
APTAKISIC ROAD (SIGNALS 5, 7 & 8) FAR LEFT, LEFT AND CENTER MAST ARM SIGNALS	EB	R	R	R	R	R	G	G	G	G	Y	R	G	Y	R	R	R	R	R	G	R	R	◇	
APTAKISIC ROAD (SIGNALS 9 & 11) RIGHT MAST ARM AND NEAR RIGHT SIGNALS	EB	R	R	R	R	R	G	G	G	G	Y	R	G	Y	R	R	R	R	R	G	R	R	◇	
APTAKISIC ROAD (SIGNALS 12 & 13) FAR LEFT AND LEFT MAST ARM SIGNALS	WB	←Y	←R	←G	←G	←Y	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←G	←R	◇	
APTAKISIC ROAD (SIGNALS 14 & 15) CENTER AND RIGHT MAST ARM, NEAR RIGHT SIGNALS	WB	Y	R	G	G	Y	R	G	Y	R	G	G	G	Y	R	R	R	R	R	R	G	R	◇	
WEILAND ROAD (SIGNALS 1, 2 & 16) FAR LEFT AND LEFT MAST ARM SIGNALS	NB	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	←Y	R	←G	←G	◇
WEILAND ROAD (SIGNALS 3, 4 & 10) RIGHT MAST ARM AND NEAR RIGHT SIGNALS	NB	Y→	R	Y→	R	G→	G→	R	R	R	R	R	R	R	R	R	R	R	R	Y→	R	G→	G→	◇
PEDESTRIAN SIGNALS (PH1 & PH2) CROSSING WEILAND ROAD - SOUTH LEG		H	H	H	H	H	H	FH	H	H	FH	H	H	FH	H	H	H	H	H	H	H	H	◇	

◇ EMERGENCY VEHICLE PREEMPTION SEQUENCE SHALL PROVIDE THE PROPER CLEARANCE INTERVAL TO RESUME THE NORMAL SEQUENCE OF OPERATION OR PROPER CLEARANCE INTERVAL TO DISPLAY A DIFFERENT EMERGENCY VEHICLE PREEMPTION INTERVAL AFTER EMERGENCY VEHICLE PREEMPTION INTERVAL 2, 3, OR 4 IS TERMINATED.

PROPOSED RAILROAD PREEMPTION SEQUENCE OF OPERATION

CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER	1		3		7		PREEMPTOR NUMBER 3	PREEMPTOR NUMBER 4	PREEMPTOR NUMBER 5	PREEMPTOR NUMBER 2	CLEAR TO NORMAL SEQUENCE						
	1A	1B	1C	1D	1E	1F	1G	1H	1J	1K		1L	2	3	4	5	
CHANGE FROM EMERGENCY VEHICLE PREEMPTION SEQUENCE INTERVAL NUMBER	/		/		/		2	3	4								
RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1B	2	1D	2	1F	2	1H	2	2	1L	2	3	4	5			
CHANGE TO RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	/																
APTAKISIC ROAD (SIGNALS 5, 7 & 8) FAR LEFT, LEFT AND CENTER MAST ARM SIGNALS	EB	R	R	Y	R	R	R	Y	R	R	R	R	R	R	R	R	△
APTAKISIC ROAD (SIGNALS 9 & 11) RIGHT MAST ARM AND NEAR RIGHT SIGNALS	EB	R	R	Y	R	R	Y	R	R	Y	R	R	R	R	R	R	△
APTAKISIC ROAD (SIGNALS 12 & 13) FAR LEFT AND LEFT MAST ARM SIGNALS	WB	←G	←G	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	△
APTAKISIC ROAD (SIGNALS 14 & 15) CENTER AND RIGHT MAST ARM, NEAR RIGHT SIGNALS	WB	G	G	G	G	R	R	R	R	G	R	R	G	Y	R	R	△
WEILAND ROAD (SIGNALS 1, 2 & 16) FAR LEFT AND LEFT MAST ARM SIGNALS	NB	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	△
WEILAND ROAD (SIGNALS 3, 4 & 10) RIGHT MAST ARM AND NEAR RIGHT SIGNALS	NB	Y→	R	R	R	G→	G→	R	R	R	R	R	R	R	R	R	△
PEDESTRIAN SIGNALS (PH1 & PH2) CROSSING WEILAND ROAD - SOUTH LEG	H	H	FH	H	H	H	H	H	H	H	H	H	H	H	H	H	△

△ RAILROAD PREEMPTION SEQUENCE SHALL PROVIDE THE PROPER CLEARANCE INTERVAL TO RESUME THE NORMAL SEQUENCE OF OPERATION OR PROPER CLEARANCE INTERVAL TO DISPLAY AN EMERGENCY VEHICLE PREEMPTION INTERVAL (IF APPLICABLE) AFTER RAILROAD PREEMPTION INTERVAL 5 IS TERMINATED.

HOLD



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.

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

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

- 2 EACH LIGHT DETECTOR
- 1 EACH LIGHT DETECTOR AMPLIFIER
- 1 EACH BLUETOOTH DETECTOR

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 DELIVERED TO THE COUNTY'S TRAFFIC SIGNAL MAINTENANCE CONTRACTOR'S MAIN FACILITY AS PER THE SPECIAL PROVISIONS.

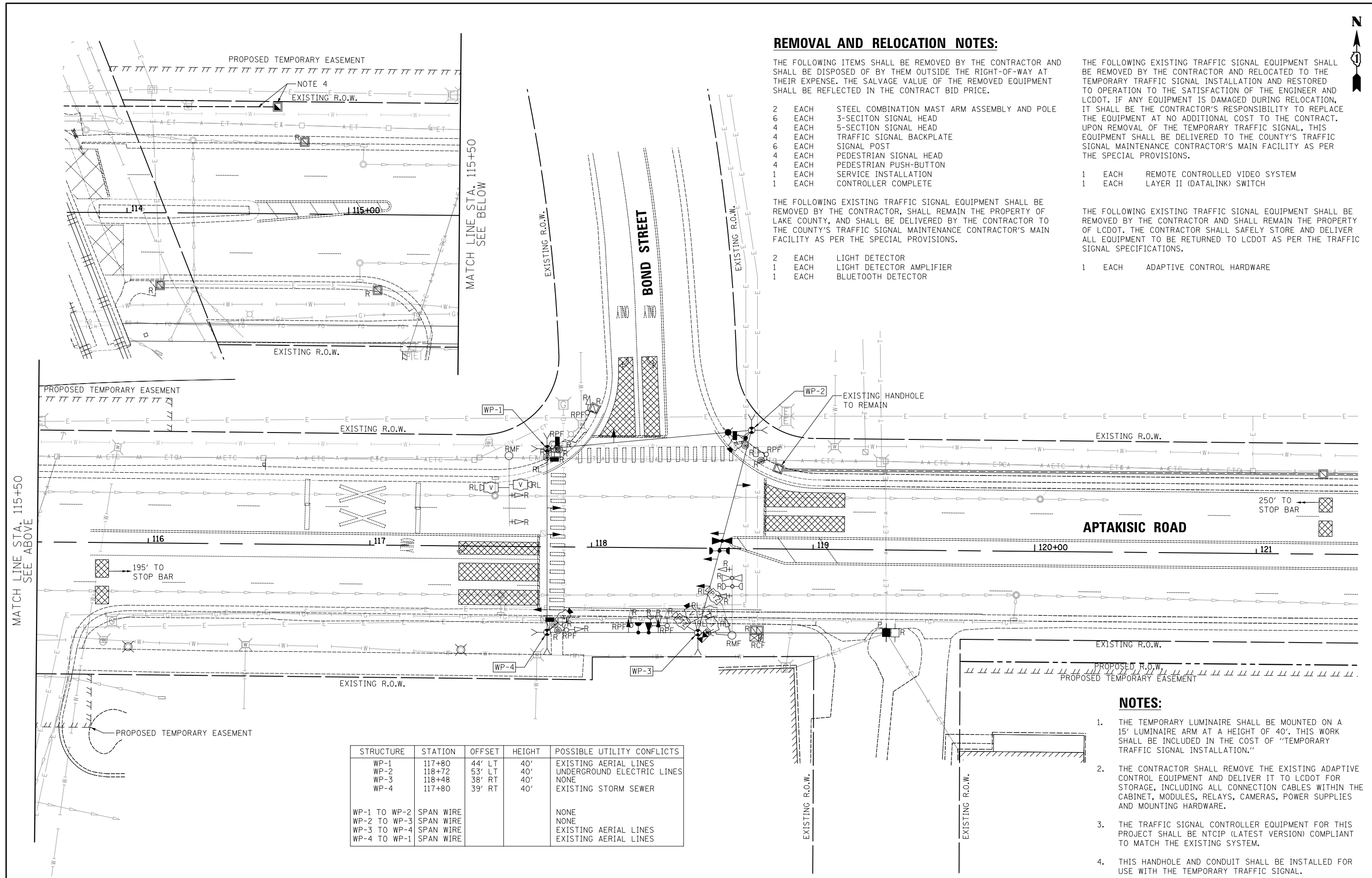
- 1 EACH REMOTE CONTROLLED VIDEO SYSTEM
- 1 EACH LAYER II (DATALINK) SWITCH

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF LCDOT. THE CONTRACTOR SHALL SAFELY STORE AND DELIVER ALL EQUIPMENT TO BE RETURNED TO LCDOT AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

- 1 EACH ADAPTIVE CONTROL HARDWARE

DATE	
BY	
FINAL SURVEY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	



STRUCTURE	STATION	OFFSET	HEIGHT	POSSIBLE UTILITY CONFLICTS
WP-1	117+80	44' LT	40'	EXISTING AERIAL LINES
WP-2	118+72	53' LT	40'	UNDERGROUND ELECTRIC LINES
WP-3	118+48	38' RT	40'	NONE
WP-4	117+80	39' RT	40'	EXISTING STORM SEWER
WP-1 TO WP-2	SPAN WIRE			NONE
WP-2 TO WP-3	SPAN WIRE			NONE
WP-3 TO WP-4	SPAN WIRE			EXISTING AERIAL LINES
WP-4 TO WP-1	SPAN WIRE			EXISTING AERIAL LINES

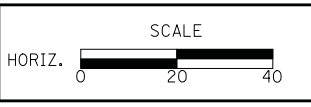
NOTES:

- THE TEMPORARY LUMINAIRE SHALL BE MOUNTED ON A 15' LUMINAIRE ARM AT A HEIGHT OF 40'. THIS WORK SHALL BE INCLUDED IN THE COST OF "TEMPORARY TRAFFIC SIGNAL INSTALLATION."
- THE CONTRACTOR SHALL REMOVE THE EXISTING ADAPTIVE CONTROL EQUIPMENT AND DELIVER IT TO LCDOT FOR STORAGE, INCLUDING ALL CONNECTION CABLES WITHIN THE CABINET, MODULES, RELAYS, CAMERAS, POWER SUPPLIES AND MOUNTING HARDWARE.
- THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE NTCIP (LATEST VERSION) COMPLIANT TO MATCH THE EXISTING SYSTEM.
- THIS HANDHOLE AND CONDUIT SHALL BE INSTALLED FOR USE WITH THE TEMPORARY TRAFFIC SIGNAL.

CIVILTECH
 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 - 7/10/2019	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**



**TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVAL PLAN
 APTAKISIC ROAD AT BOND STREET**

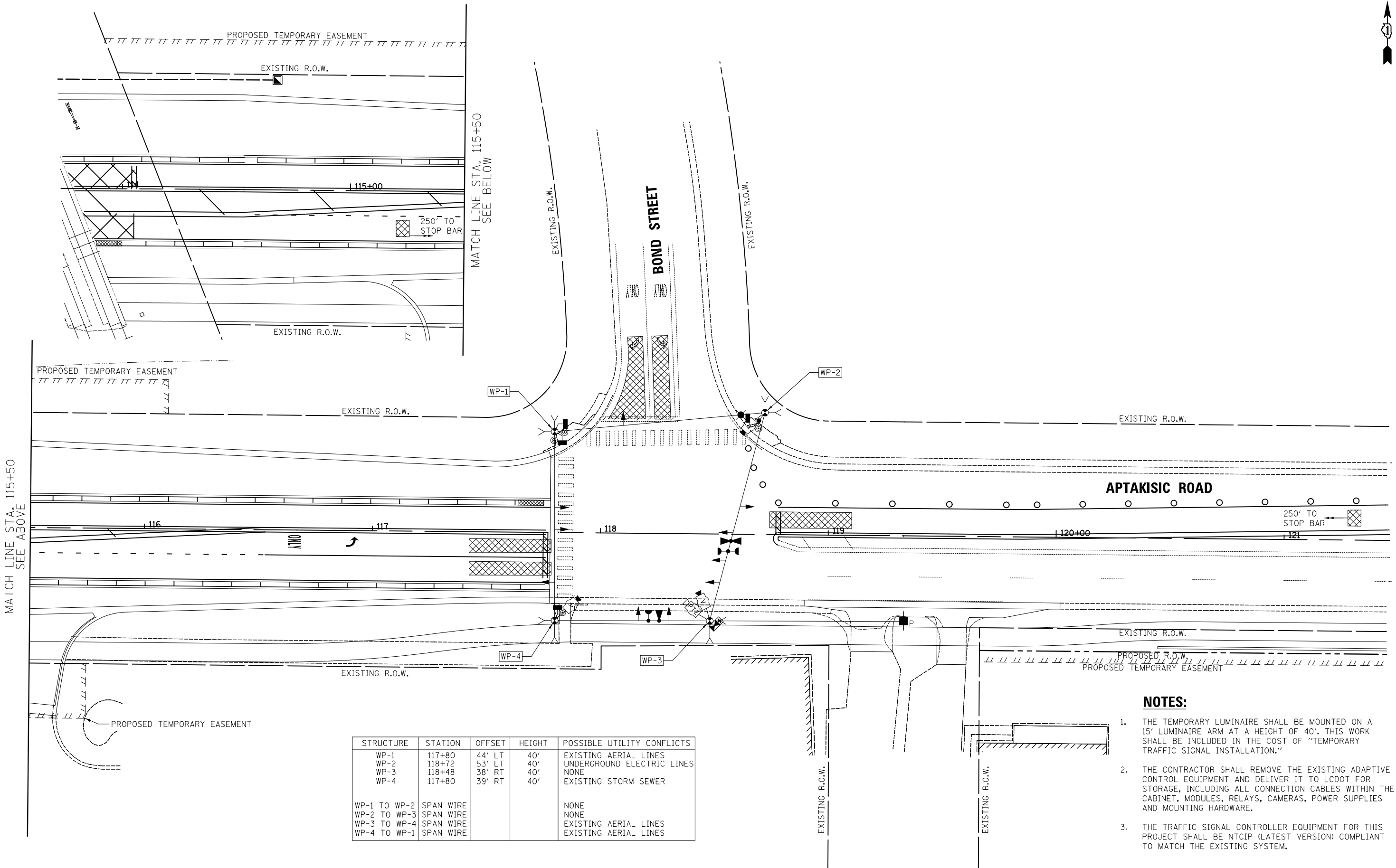
SCALE: 1" = 20' SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2665	18-00158-13-WR	LAKE	623	265
CONTRACT NO. 61F25				
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT				



FINAL SURVEY NO.	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS CHECKED		

ORIGINAL SURVEY NO.	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS CHECKED		



STRUCTURE	STATION	OFFSET	HEIGHT	POSSIBLE UTILITY CONFLICTS
WP-1	117+80	44' LT	40'	EXISTING AERIAL LINES
WP-2	118+72	53' LT	40'	UNDERGROUND ELECTRIC LINES
WP-3	118+48	38' RT	40'	NONE
WP-4	117+80	39' RT	40'	EXISTING STORM SEWER
WP-1 TO WP-2 SPAN WIRE				NONE
WP-2 TO WP-3 SPAN WIRE				NONE
WP-3 TO WP-4 SPAN WIRE				EXISTING AERIAL LINES
WP-4 TO WP-1 SPAN WIRE				EXISTING AERIAL LINES

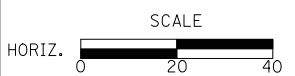
NOTES:

1. THE TEMPORARY LUMINAIRE SHALL BE MOUNTED ON A 15" LUMINAIRE ARM AT A HEIGHT OF 40'. THIS WORK SHALL BE INCLUDED IN THE COST OF "TEMPORARY TRAFFIC SIGNAL INSTALLATION."
2. THE CONTRACTOR SHALL REMOVE THE EXISTING ADAPTIVE CONTROL EQUIPMENT AND DELIVER IT TO LCDOT FOR STORAGE, INCLUDING ALL CONNECTION CABLES WITHIN THE CABINET, MODULES, RELAYS, CAMERAS, POWER SUPPLIES AND MOUNTING HARDWARE.
3. THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE NTCIP (LATEST VERSION) COMPLIANT TO MATCH THE EXISTING SYSTEM.

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 - 7/10/2019	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**



**TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 1
APTAKISIC ROAD AT BOND STREET**

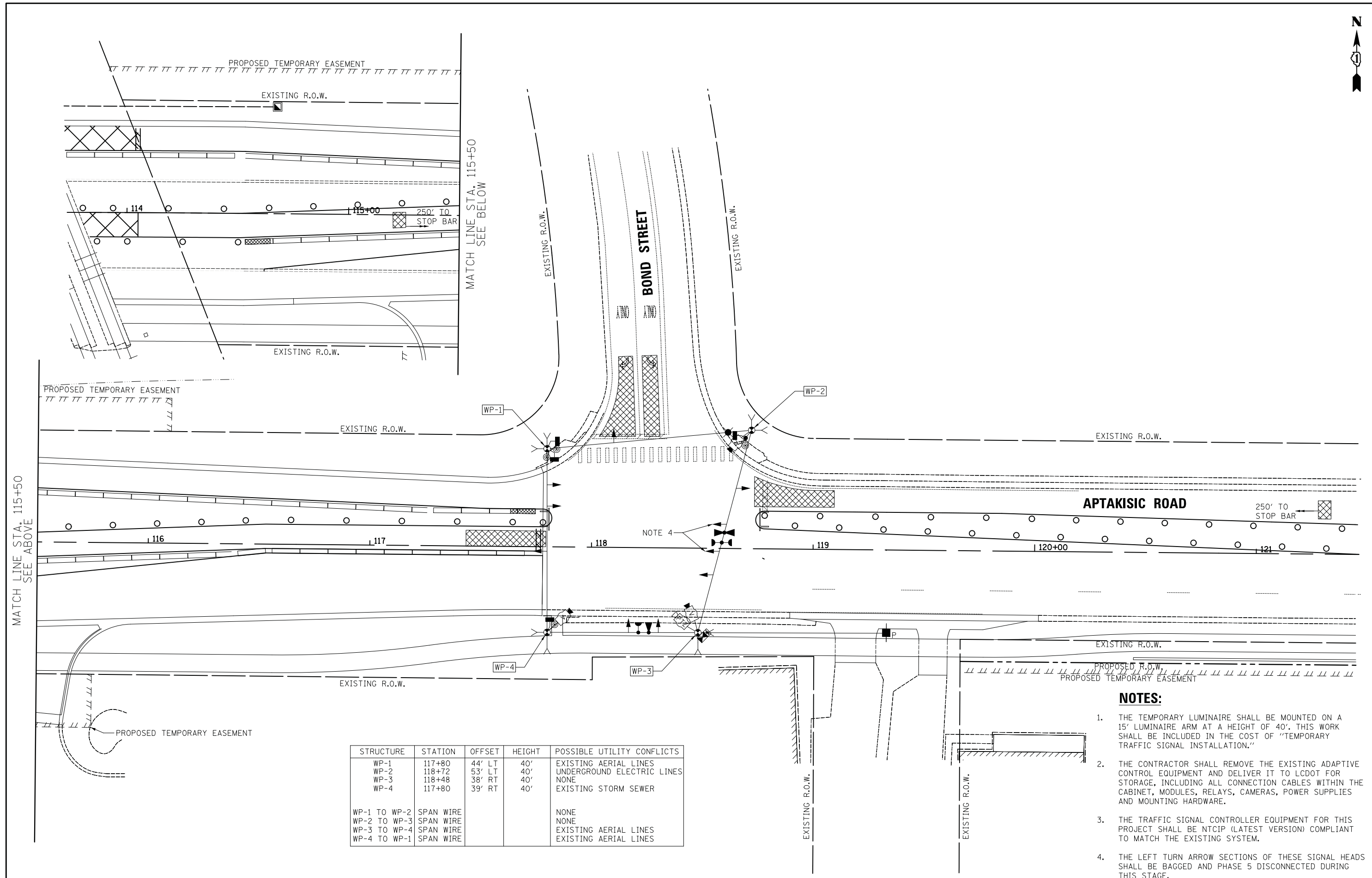
SCALE: 1" = 20' SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2665	18-00158-13-WR	LAKE	623	266
CONTRACT NO. 61F25				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



FINAL SURVEY NO.	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS CHECKED		

ORIGINAL SURVEY NO.	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS CHECKED		



STRUCTURE	STATION	OFFSET	HEIGHT	POSSIBLE UTILITY CONFLICTS
WP-1	117+80	44' LT	40'	EXISTING AERIAL LINES
WP-2	118+72	53' LT	40'	UNDERGROUND ELECTRIC LINES
WP-3	118+48	38' RT	40'	NONE
WP-4	117+80	39' RT	40'	EXISTING STORM SEWER
WP-1 TO WP-2	SPAN WIRE			NONE
WP-2 TO WP-3	SPAN WIRE			NONE
WP-3 TO WP-4	SPAN WIRE			EXISTING AERIAL LINES
WP-4 TO WP-1	SPAN WIRE			EXISTING AERIAL LINES

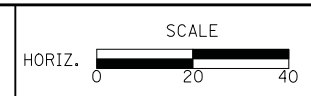
NOTES:

1. THE TEMPORARY LUMINAIRE SHALL BE MOUNTED ON A 15' LUMINAIRE ARM AT A HEIGHT OF 40'. THIS WORK SHALL BE INCLUDED IN THE COST OF "TEMPORARY TRAFFIC SIGNAL INSTALLATION."
2. THE CONTRACTOR SHALL REMOVE THE EXISTING ADAPTIVE CONTROL EQUIPMENT AND DELIVER IT TO LCDOT FOR STORAGE, INCLUDING ALL CONNECTION CABLES WITHIN THE CABINET, MODULES, RELAYS, CAMERAS, POWER SUPPLIES AND MOUNTING HARDWARE.
3. THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE NTCIP (LATEST VERSION) COMPLIANT TO MATCH THE EXISTING SYSTEM.
4. THE LEFT TURN ARROW SECTIONS OF THESE SIGNAL HEADS SHALL BE BAGGED AND PHASE 5 DISCONNECTED DURING THIS STAGE.

CIVILTECH
 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 - 7/10/2019	REVISED -

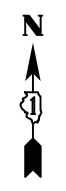
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**



**TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 1A
 APTAKISIC ROAD AT BOND STREET**

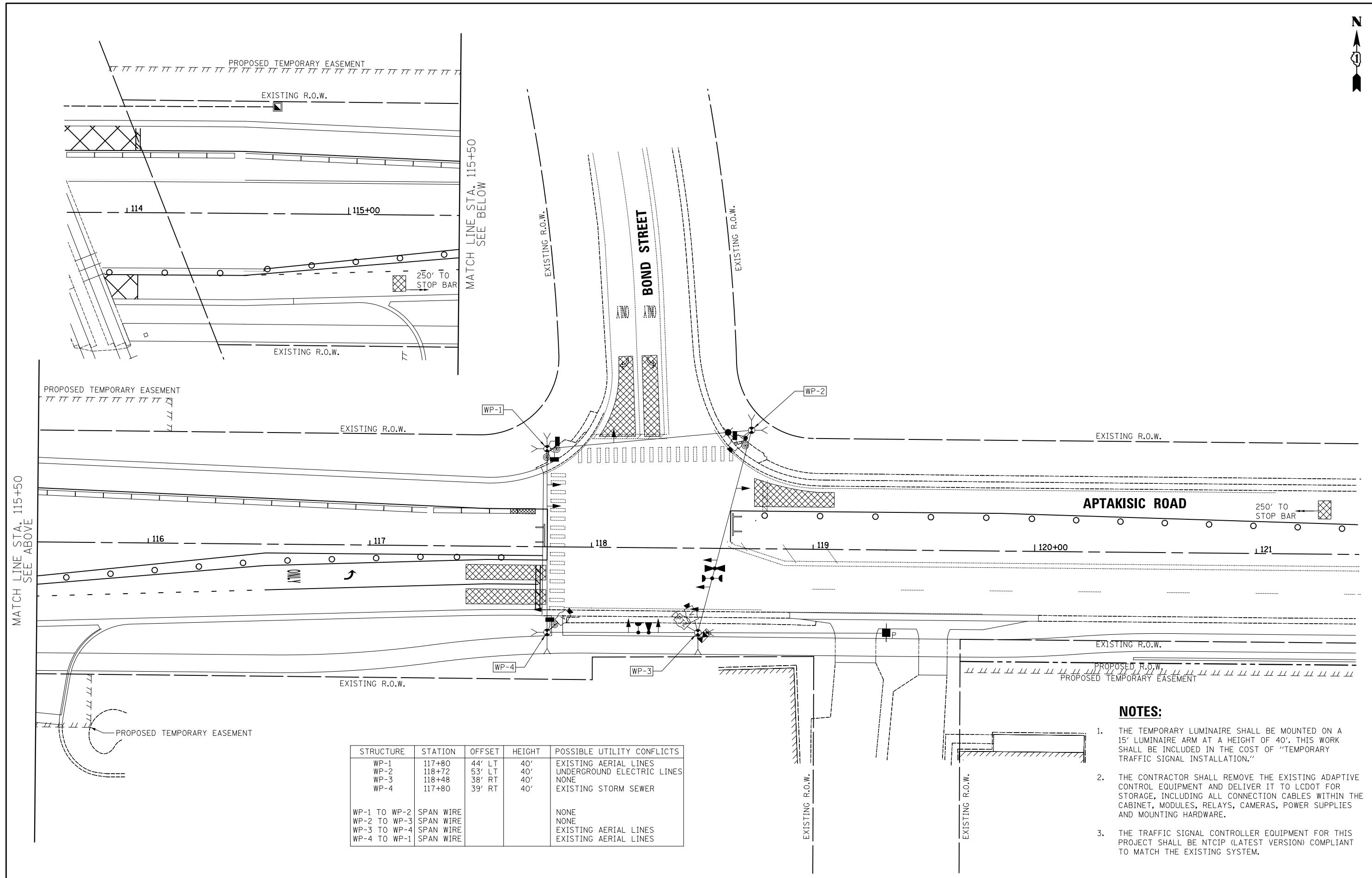
SCALE: 1" = 20' SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2665	18-00158-13-WR	LAKE	623	267
CONTRACT NO. 61F25				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



DATE	
BY	
FINAL SURVEY	
NOTE BOOK NO.	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
NOTE BOOK NO.	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	



STRUCTURE	STATION	OFFSET	HEIGHT	POSSIBLE UTILITY CONFLICTS
WP-1	117+80	44' LT	40'	EXISTING AERIAL LINES
WP-2	118+72	53' LT	40'	UNDERGROUND ELECTRIC LINES
WP-3	118+48	38' RT	40'	NONE
WP-4	117+80	39' RT	40'	EXISTING STORM SEWER
WP-1 TO WP-2	SPAN WIRE			NONE
WP-2 TO WP-3	SPAN WIRE			NONE
WP-3 TO WP-4	SPAN WIRE			EXISTING AERIAL LINES
WP-4 TO WP-1	SPAN WIRE			EXISTING AERIAL LINES

- NOTES:**
1. THE TEMPORARY LUMINAIRE SHALL BE MOUNTED ON A 15" LUMINAIRE ARM AT A HEIGHT OF 40'. THIS WORK SHALL BE INCLUDED IN THE COST OF "TEMPORARY TRAFFIC SIGNAL INSTALLATION."
 2. THE CONTRACTOR SHALL REMOVE THE EXISTING ADAPTIVE CONTROL EQUIPMENT AND DELIVER IT TO LCDOT FOR STORAGE, INCLUDING ALL CONNECTION CABLES WITHIN THE CABINET, MODULES, RELAYS, CAMERAS, POWER SUPPLIES AND MOUNTING HARDWARE.
 3. THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE NTCIP (LATEST VERSION) COMPLIANT TO MATCH THE EXISTING SYSTEM.

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

DESIGNED - LEP
 DRAWN - LEP
 CHECKED - JJE
 DATE - 7/10/2019

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**



**TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 1B
 APTAKASIC ROAD AT BOND STREET**

SCALE: 1" = 20'

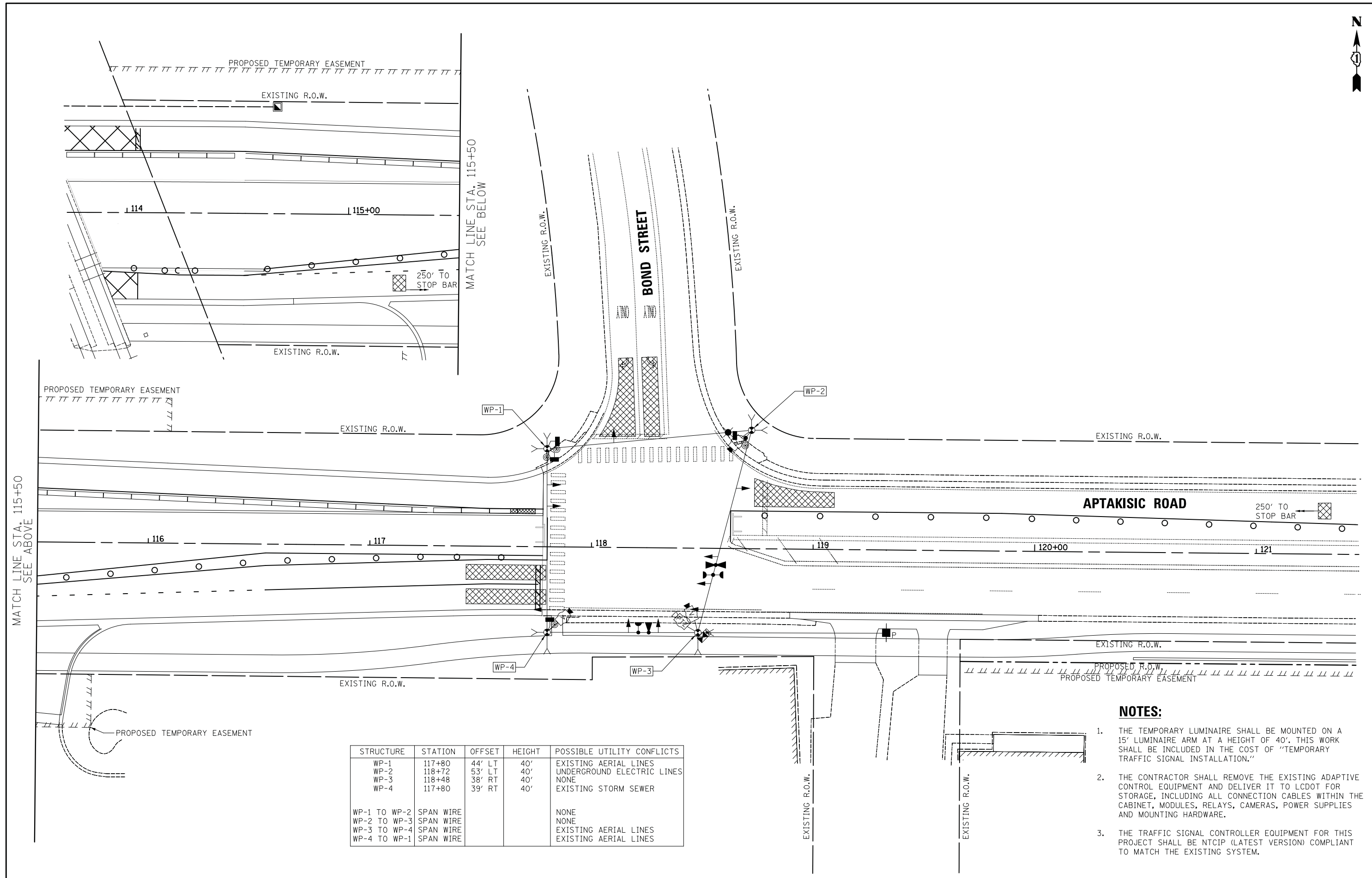
SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2665	18-00158-13-WR	LAKE	623	268
CONTRACT NO. 61F25				
<small>FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT</small>				



BY	DATE
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED

BY	DATE
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED



STRUCTURE	STATION	OFFSET	HEIGHT	POSSIBLE UTILITY CONFLICTS
WP-1	117+80	44' LT	40'	EXISTING AERIAL LINES
WP-2	118+72	53' LT	40'	UNDERGROUND ELECTRIC LINES
WP-3	118+48	38' RT	40'	NONE
WP-4	117+80	39' RT	40'	EXISTING STORM SEWER
WP-1 TO WP-2 SPAN WIRE				NONE
WP-2 TO WP-3 SPAN WIRE				NONE
WP-3 TO WP-4 SPAN WIRE				EXISTING AERIAL LINES
WP-4 TO WP-1 SPAN WIRE				EXISTING AERIAL LINES

NOTES:

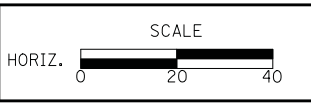
1. THE TEMPORARY LUMINAIRE SHALL BE MOUNTED ON A 15" LUMINAIRE ARM AT A HEIGHT OF 40'. THIS WORK SHALL BE INCLUDED IN THE COST OF "TEMPORARY TRAFFIC SIGNAL INSTALLATION."
2. THE CONTRACTOR SHALL REMOVE THE EXISTING ADAPTIVE CONTROL EQUIPMENT AND DELIVER IT TO LCDOT FOR STORAGE, INCLUDING ALL CONNECTION CABLES WITHIN THE CABINET, MODULES, RELAYS, CAMERAS, POWER SUPPLIES AND MOUNTING HARDWARE.
3. THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE NTCIP (LATEST VERSION) COMPLIANT TO MATCH THE EXISTING SYSTEM.

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

DESIGNED - LEP
 DRAWN - LEP
 CHECKED - JJE
 DATE - 7/10/2019

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**



**TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 2-2A
 APTAKISIC ROAD AT BOND STREET**

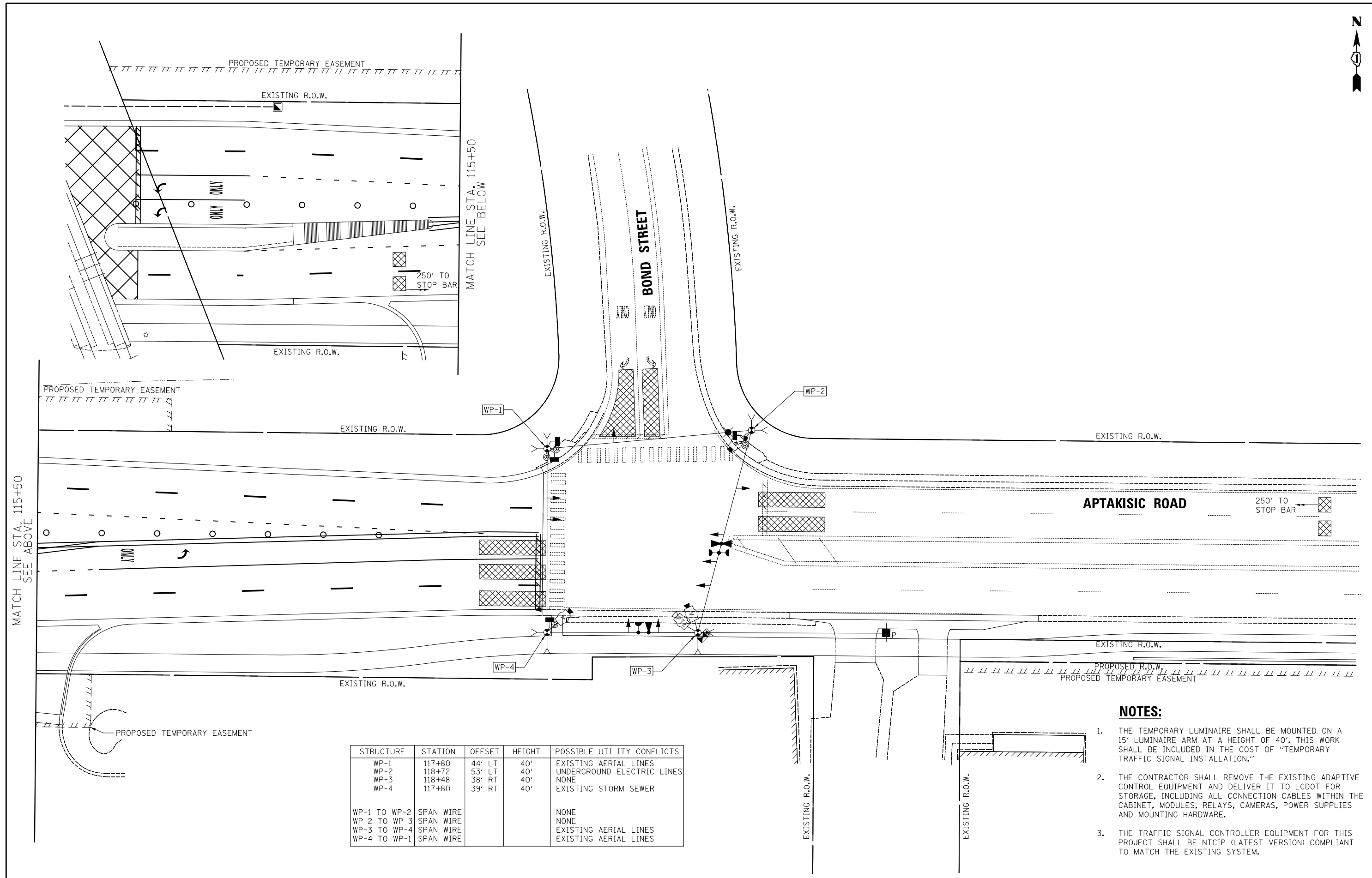
SCALE: 1" = 20' SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2665	18-00158-13-WR	LAKE	623	269
CONTRACT NO. 61F25				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



BY	DATE

BY	DATE



STRUCTURE	STATION	OFFSET	HEIGHT	POSSIBLE UTILITY CONFLICTS
WP-1	117+80	44' LT	40'	EXISTING AERIAL LINES
WP-2	118+72	53' LT	40'	UNDERGROUND ELECTRIC LINES
WP-3	118+48	38' RT	40'	NONE
WP-4	117+80	39' RT	40'	EXISTING STORM SEWER
WP-1 TO WP-2	SPAN WIRE			NONE
WP-2 TO WP-3	SPAN WIRE			NONE
WP-3 TO WP-4	SPAN WIRE			EXISTING AERIAL LINES
WP-4 TO WP-1	SPAN WIRE			EXISTING AERIAL LINES

- NOTES:**
1. THE TEMPORARY LUMINAIRE SHALL BE MOUNTED ON A 15" LUMINAIRE ARM AT A HEIGHT OF 40'. THIS WORK SHALL BE INCLUDED IN THE COST OF "TEMPORARY TRAFFIC SIGNAL INSTALLATION."
 2. THE CONTRACTOR SHALL REMOVE THE EXISTING ADAPTIVE CONTROL EQUIPMENT AND DELIVER IT TO LCDOT FOR STORAGE, INCLUDING ALL CONNECTION CABLES WITHIN THE CABINET, MODULES, RELAYS, CAMERAS, POWER SUPPLIES AND MOUNTING HARDWARE.
 3. THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE NTCIP (LATEST VERSION) COMPLIANT TO MATCH THE EXISTING SYSTEM.

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

DESIGNED - LEP
 DRAWN - LEP
 CHECKED - JJE
 DATE - 7/10/2019

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

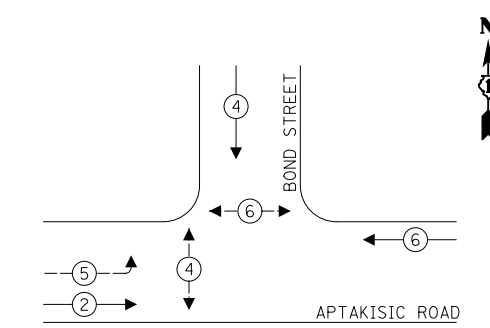


**TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 3
 APTAKISIC ROAD AT BOND STREET**

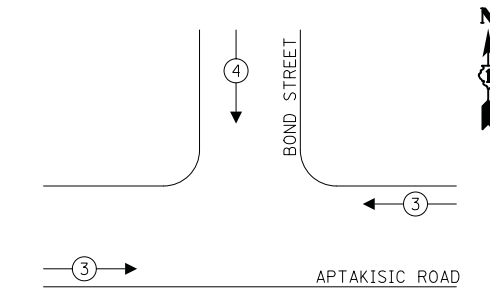
SCALE: 1" = 20'
 SHEET NO. 1 OF 1 SHEETS
 STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2665	18-00158-13-WR	LAKE	623	270
CONTRACT NO. 61F25				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

PROPOSED CONTROLLER SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



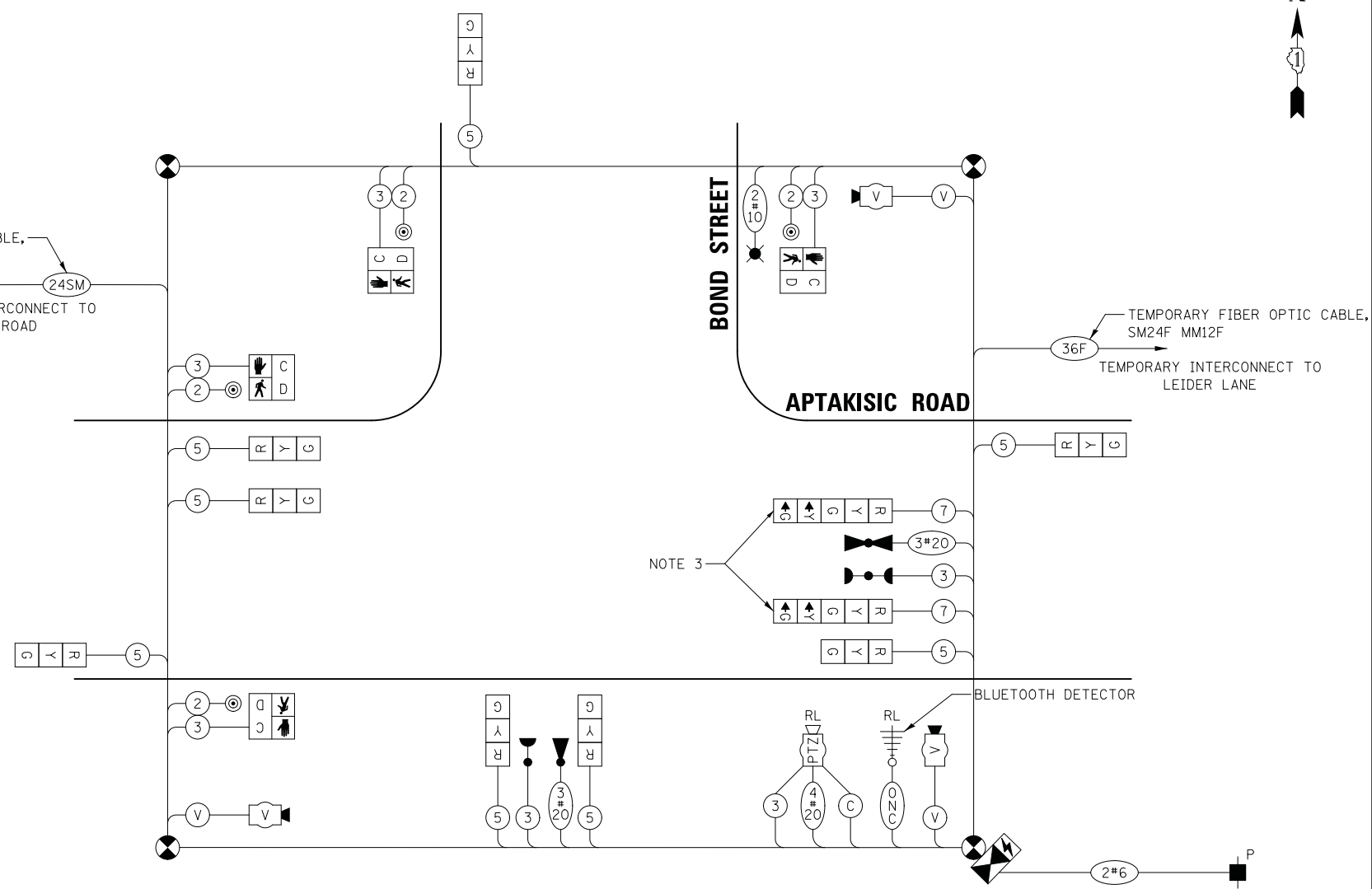
LEGEND:

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

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
FINAL SURVEY NOTE BOOK NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
ORIGINAL SURVEY NOTE BOOK NO.	

TEMPORARY FIBER OPTIC CABLE, SM24F
 TEMPORARY INTERCONNECT TO WEILAND ROAD



CABLE PLAN
(NOT TO SCALE)

NOTES:

1. THE END OF THE TRACER CABLE SHALL BE CONTINUOUS AND EXTEND INTO THE CONTROLLER CABINET.
2. THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT SHALL BE NTCIP COMPLIANT TO MATCH THE EXISTING ADJACENT SYSTEM.
3. THE LEFT TURN ARROW SECTIONS OF THESE SIGNAL HEADS SHALL BE BAGGED AND PHASE 5 DISCONNECTED DURING MOT STAGE 1A.

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	9	11	50	49.5
(YELLOW)	9	20	5	9.0
(GREEN)	9	12	45	48.6
ARROW	4	10	10	4.0
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	1	250	50	125.0
TOTAL =				591.1

ENERGY COSTS TO:
 VILLAGE OF LINCOLNSHIRE
 1 OLDE HALF DAY ROAD
 LINCOLNSHIRE, IL 60069
 ENERGY SUPPLY: CONTACT: RUTH BOWEN
 PHONE: (847) 816-5459
 COMPANY: COMED
 ACCOUNT NUMBER: 6123019023

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

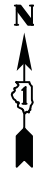
DESIGNED - LEP	REVISED -
DRAWN - LEP	REVISED -
CHECKED - JJE	REVISED -
DATE - 7/10/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM AND TEMPORARY VEHICLE PREEMPTION SEQUENCE
APTAKISIC ROAD AT BOND STREET

SCALE: NO SCALE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2665	18-00158-13-WR	LAKE	623	271
CONTRACT NO. 61F25				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

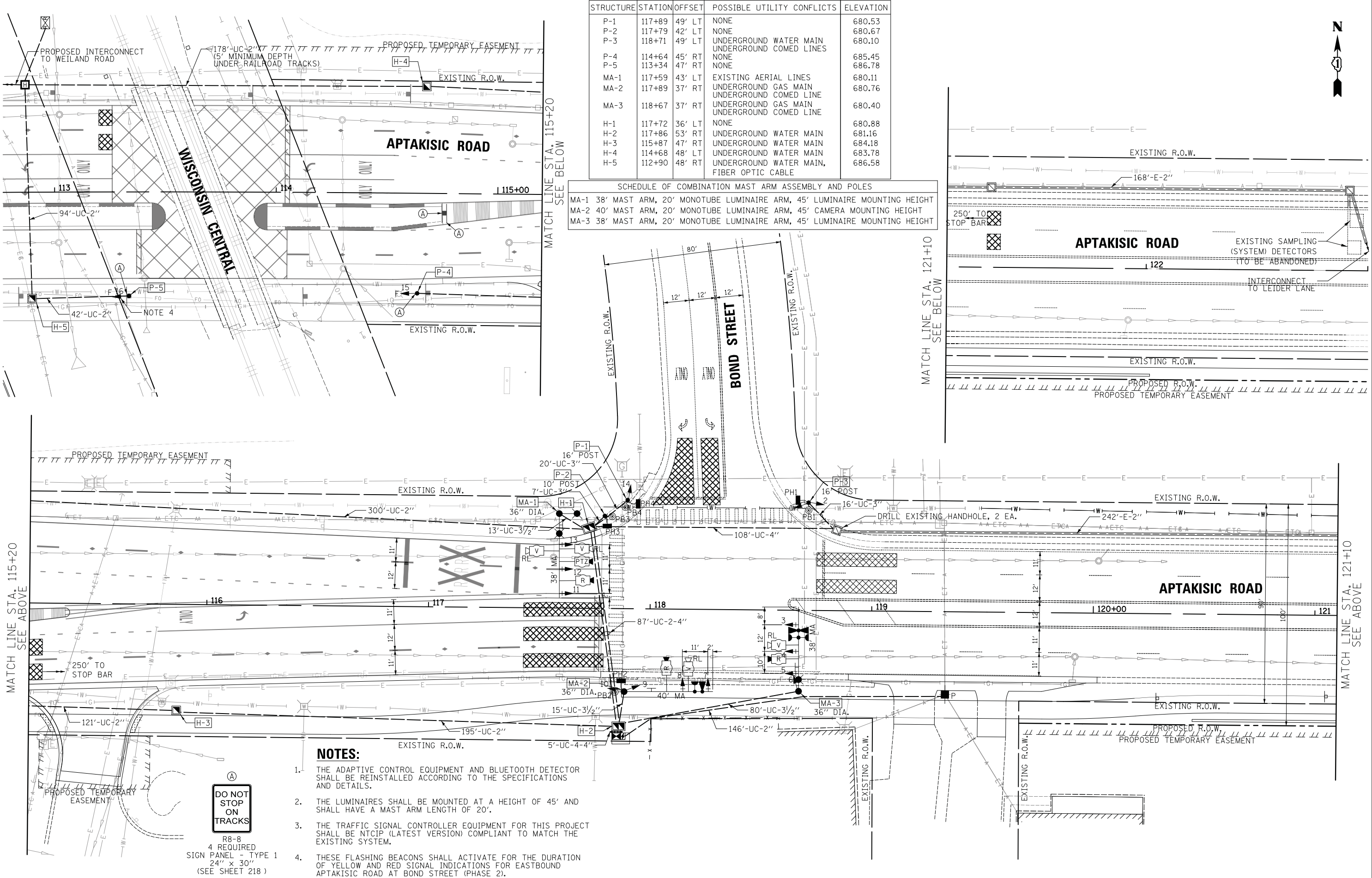


STRUCTURE	STATION	OFFSET	POSSIBLE UTILITY CONFLICTS	ELEVATION
P-1	117+89	49' LT	NONE	680.53
P-2	117+79	42' LT	NONE	680.67
P-3	118+71	49' LT	UNDERGROUND WATER MAIN UNDERGROUND COMED LINES	680.10
P-4	114+64	45' RT	NONE	685.45
P-5	113+34	47' RT	NONE	686.78
MA-1	117+59	43' LT	EXISTING AERIAL LINES	680.11
MA-2	117+89	37' RT	UNDERGROUND GAS MAIN UNDERGROUND COMED LINE	680.76
MA-3	118+67	37' RT	UNDERGROUND GAS MAIN UNDERGROUND COMED LINE	680.40
H-1	117+72	36' LT	NONE	680.88
H-2	117+86	53' RT	UNDERGROUND WATER MAIN	681.16
H-3	115+87	47' RT	UNDERGROUND WATER MAIN	684.18
H-4	114+68	48' LT	UNDERGROUND WATER MAIN	683.78
H-5	112+90	48' RT	UNDERGROUND WATER MAIN, FIBER OPTIC CABLE	686.58

SCHEDULE OF COMBINATION MAST ARM ASSEMBLY AND POLES	
MA-1	38' MAST ARM, 20' MONOTUBE LUMINAIRE ARM, 45' LUMINAIRE MOUNTING HEIGHT
MA-2	40' MAST ARM, 20' MONOTUBE LUMINAIRE ARM, 45' CAMERA MOUNTING HEIGHT
MA-3	38' MAST ARM, 20' MONOTUBE LUMINAIRE ARM, 45' LUMINAIRE MOUNTING HEIGHT

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	



- NOTES:**
1. THE ADAPTIVE CONTROL EQUIPMENT AND BLUETOOTH DETECTOR SHALL BE REINSTALLED ACCORDING TO THE SPECIFICATIONS AND DETAILS.
 2. THE LUMINAIRES SHALL BE MOUNTED AT A HEIGHT OF 45' AND SHALL HAVE A MAST ARM LENGTH OF 20'.
 3. THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE NTCIP (LATEST VERSION) COMPLIANT TO MATCH THE EXISTING SYSTEM.
 4. THESE FLASHING BEACONS SHALL ACTIVATE FOR THE DURATION OF YELLOW AND RED SIGNAL INDICATIONS FOR EASTBOUND APTAKISIC ROAD AT BOND STREET (PHASE 2).

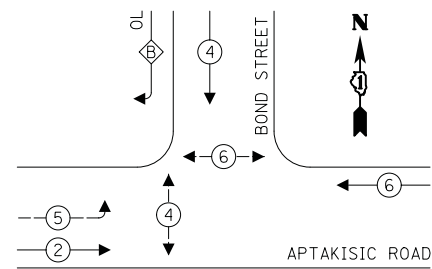
DO NOT STOP ON TRACKS

R8-8
4 REQUIRED
SIGN PANEL - TYPE 1
24" x 30"
(SEE SHEET 218)

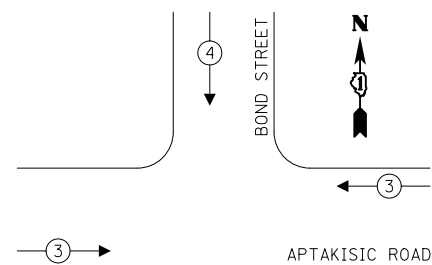
DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	

PROPOSED CONTROLLER SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



LEGEND:

- ⊙ — PROTECTED PHASE
- ⊙ — PROTECTED/PERMITTED PHASE
- ⊙ — PEDESTRIAN PHASE
- ⊙ — OVERLAP

RIGHT TURN OVERLAP

PHASE DESIGNATION:

OVERLAP LETTER = PERMISSIVE PHASE + PROTECTED PHASE

B = 4 + 5

NOTES:

- LED INTERNALLY ILLUMINATED STREET NAME SIGNS AND LUMINAIRES SHALL NOT BE CONNECTED TO THE UNINTERRUPTIBLE POWER SUPPLY UNIT.
- THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE NTCIP (LATEST VERSION) COMPLIANT TO MATCH THE EXISTING SYSTEM.
- THE END OF THE TRACER CABLE SHALL BE CONTINUOUS AND EXTEND INTO THE CONTROLLER CABINET.
- THE ADAPTIVE CONTROL EQUIPMENT SHALL BE REINSTALLED ACCORDING TO THE SPECIFICATIONS AND DETAILS.
- THESE FLASHING BEACONS SHALL ACTIVATE FOR THE DURATION OF YELLOW AND RED SIGNAL INDICATIONS FOR EASTBOUND APTAKISIC ROAD AT BOND STREET (PHASE 2).

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
ARROW	8	10	10	8.0
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	2	20	25	10.0
STREET NAME SIGN	3	120	50	180.0
LUMINAIRE	3	130	50	195.0
TOTAL =				822.7

ENERGY COSTS TO:

VILLAGE OF BUFFALO GROVE
50 RAUPP BOULEVARD
BUFFALO GROVE, IL 60089

ENERGY SUPPLY: CONTACT: RUTH BOWEN
PHONE: (847) 816-5459
COMPANY: COMED
ACCOUNT NUMBER: 6123019023

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

DESIGNED - LEP
DRAWN - LEP
CHECKED - JJE
DATE - 7/10/2019

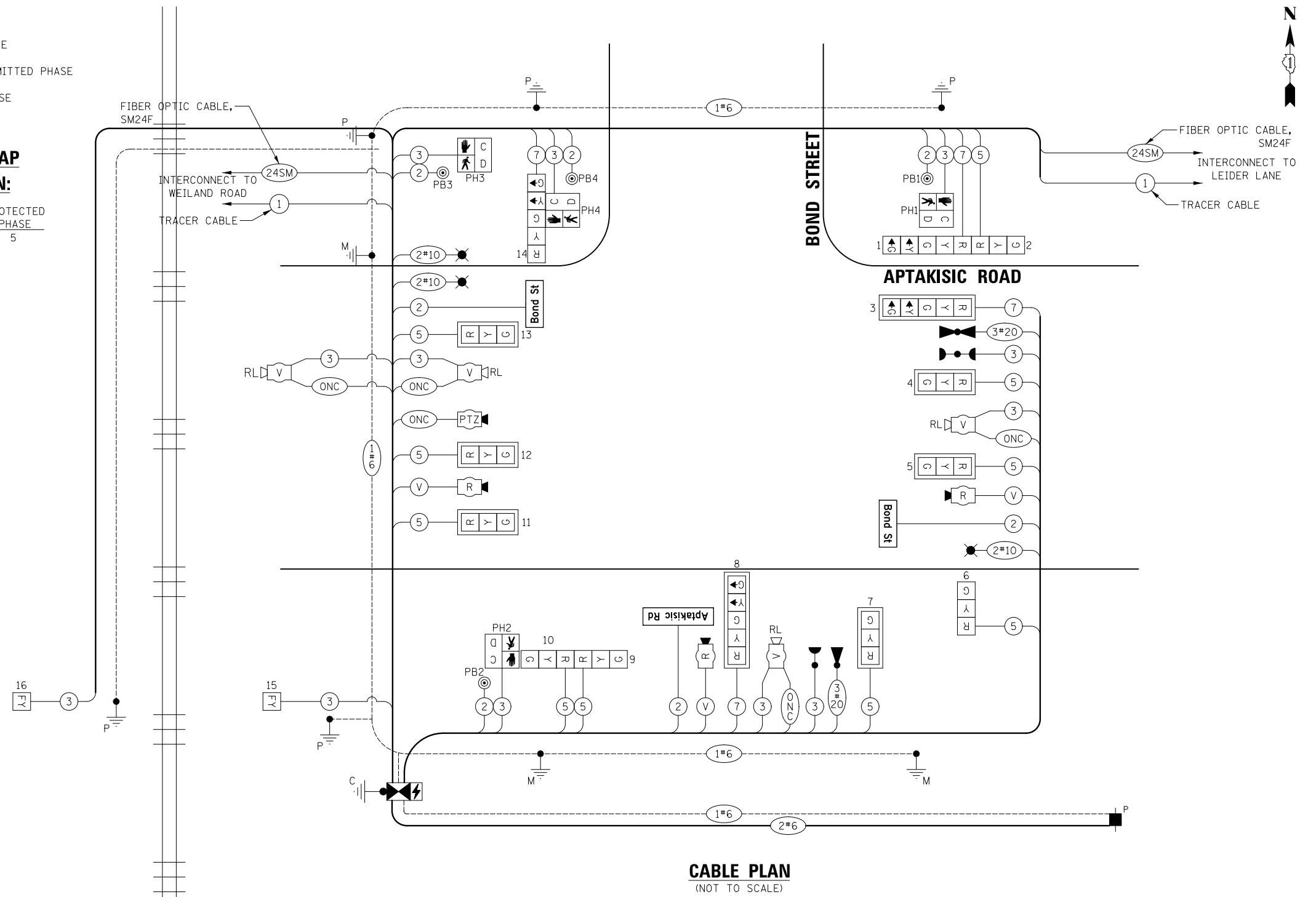
REVISED -
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

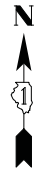
**CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND
EMERGENCY VEHICLE PREEMPTION SEQUENCE
APTAKISIC ROAD AT BOND STREET**

SCALE: NO SCALE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2665	18-00158-13-WR	LAKE	623	273
CONTRACT NO. 61F25				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



CABLE PLAN
(NOT TO SCALE)

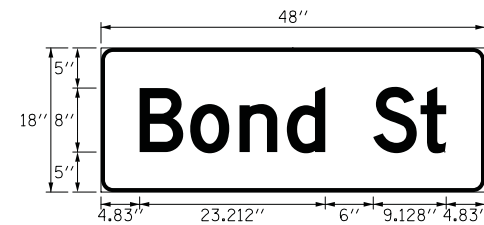


SCHEDULE OF QUANTITIES:

PAYITEM	UNIT	QNTY.
SERVICE INSTALLATION POLE MOUNTED	EACH	1
UNDERGROUND CONDUIT, GALVANIZED STEEL 2" DIA.	FOOT	1076
UNDERGROUND CONDUIT, GALVANIZED STEEL 3" DIA.	FOOT	43
UNDERGROUND CONDUIT, GALVANIZED STEEL 1/2" DIA.	FOOT	110
UNDERGROUND CONDUIT, GALVANIZED STEEL 4" DIA.	FOOT	302
HANDHOLE	EACH	3
DOUBLE HANDHOLE	EACH	2
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	1141
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	985
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	2659
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1260
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	670
ELECTRIC CABLE IN CONDUIT, SERVICE NO. 6 2C	FOOT	166
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR NO. 6 1C	FOOT	1751
CONCRETE FOUNDATION TYPE A	FOOT	20
CONCRETE FOUNDATION TYPE C	FOOT	4
CONCRETE FOUNDATION TYPE EE 36-INCH DIAMETER	FOOT	45
DRILL EXISTING HANDHOLE	EACH	2
FLASHING BEACON INSTALLATION	EACH	2
SIGNAL HEAD, LED, 1-FACE, 3-SECTION MAST ARM MOUNTED	EACH	6
SIGNAL HEAD, LED, 1-FACE, 3-SECTION BRACKET MOUNTED	EACH	4
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	4
TRAFFIC SIGNAL BACKPLATE, OVERVERFORMED PLASTIC	EACH	8
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	EACH	1
PEDESTRIAN PUSH-BUTTON	EACH	4
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING CABLE FROM CONDUIT	FOOT	1052
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	5
REMOVE EXISTING CONCRETE FOUNDATION	EACH	9
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE NO. 20 3/C	FOOT	258
RELOCATE SWITCH	EACH	1
LED INTERNALLY ILLUMINATED STREET NAME SIGN	EACH	3
OUTDOOR RATED NETWORK CABLE	FOOT	841
UNINTERRUPTED POWER SUPPLY AND CABINET SPECIAL	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET (SPECIAL)	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 38 FT. (SPECIAL)	EACH	2
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 40 FT. (SPECIAL)	EACH	1
TRAFFIC SIGNAL POST, 10 FOOT, (SPECIAL)	EACH	1
TRAFFIC SIGNAL POST, 16 FOOT, (SPECIAL)	EACH	4
REMOTE CONTROLLED VIDEO SYSTEM	EACH	1
LAYER 1 (DATA LINK SWITCH)	EACH	1
LUMINAIRE INSTALLATION TYPE 1	EACH	3
RELOCATE EXISTING REMOTE-CONTROLLED VIDEO SYSTEM	EACH	1
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1
RADAR/VEHICLE DETECTION SYSTEM SINGLE APPROACH STOP BAR AND FAR BACK	EACH	3
RELOCATE EXISTING ADAPTIVE SIGNAL SYSTEM	EACH	1



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	9.00	LED SNS	N/A	1 (SINGLE-SIDED)



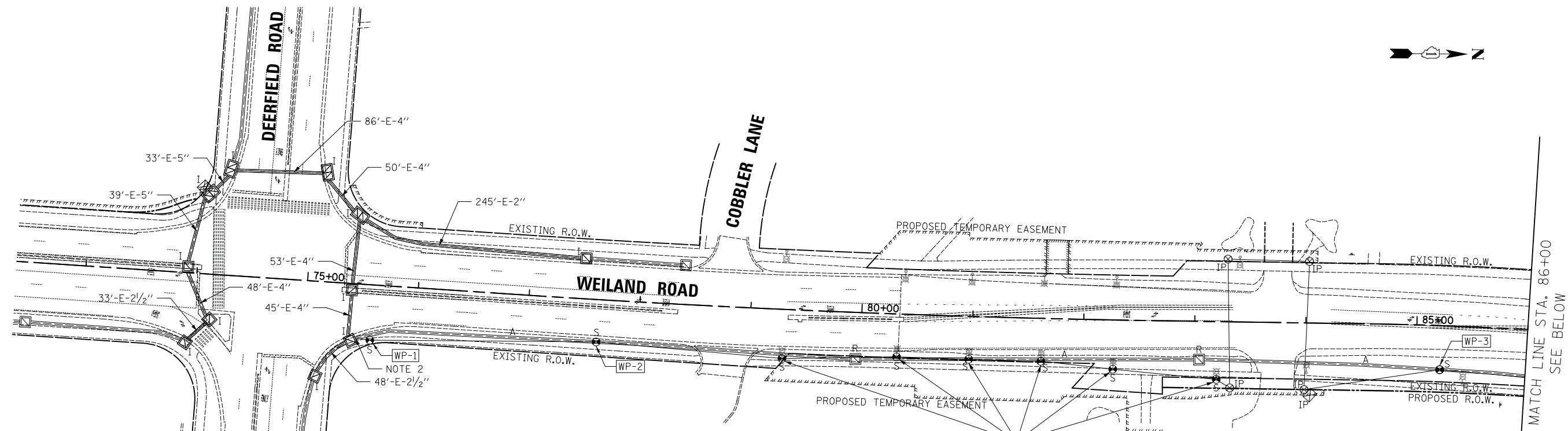
DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	6.00	LED SNS	N/A	2 (DOUBLE-SIDED)

DATE	BY
SURVEYED	PLOTTED
TEMPLATE	AREAS CHECKED
NOTE BOOK	AREAS CHECKED
NO.	

DATE	BY
SURVEYED	PLOTTED
TEMPLATE	AREAS CHECKED
NOTE BOOK	AREAS CHECKED
NO.	

DATE	
BY	
FINISHED SURVEY	
PLOTTED TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

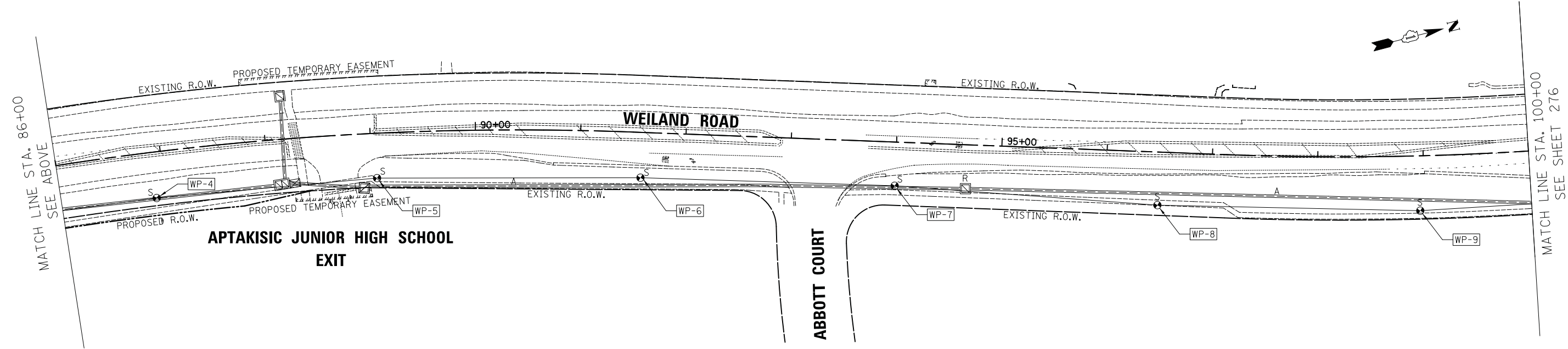
DATE	
BY	
ORIGINAL SURVEY	
PLOTTED TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	



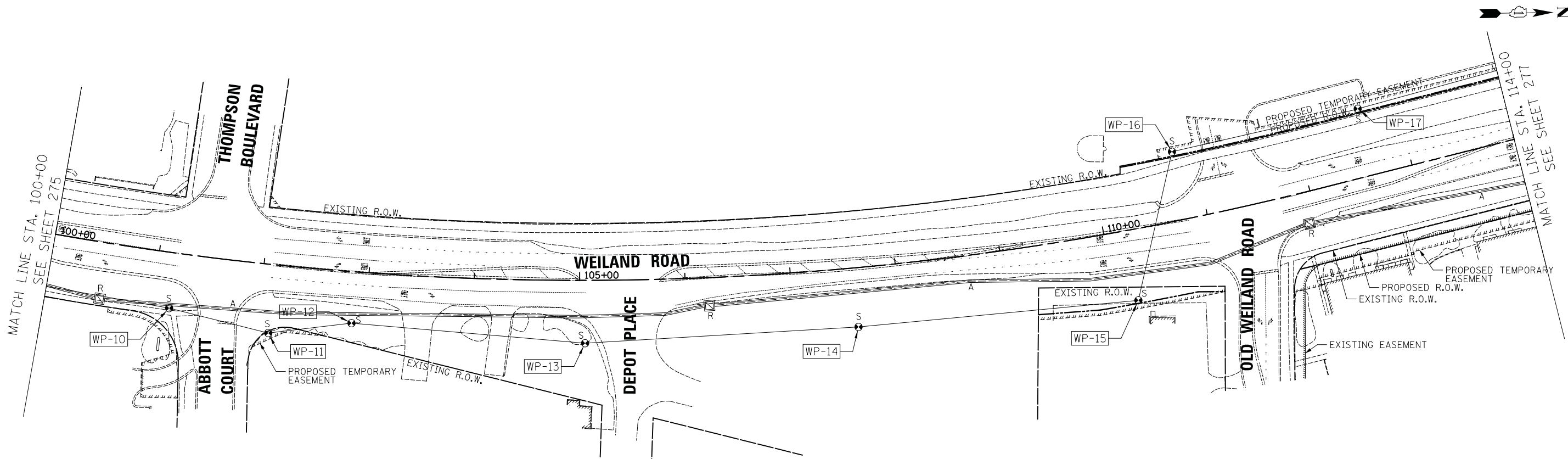
STRUCTURE	STATION	OFFSET
WP-1	75+59	50' RT
WP-2	77+63	38' RT
WP-3	85+22	40' RT
WP-4	85+93	44' RT
WP-5	89+05	43' RT
WP-6	91+58	43' RT
WP-7	93+99	41' RT
WP-8	96+50	50' RT
WP-9	98+96	52' RT

NOTES:

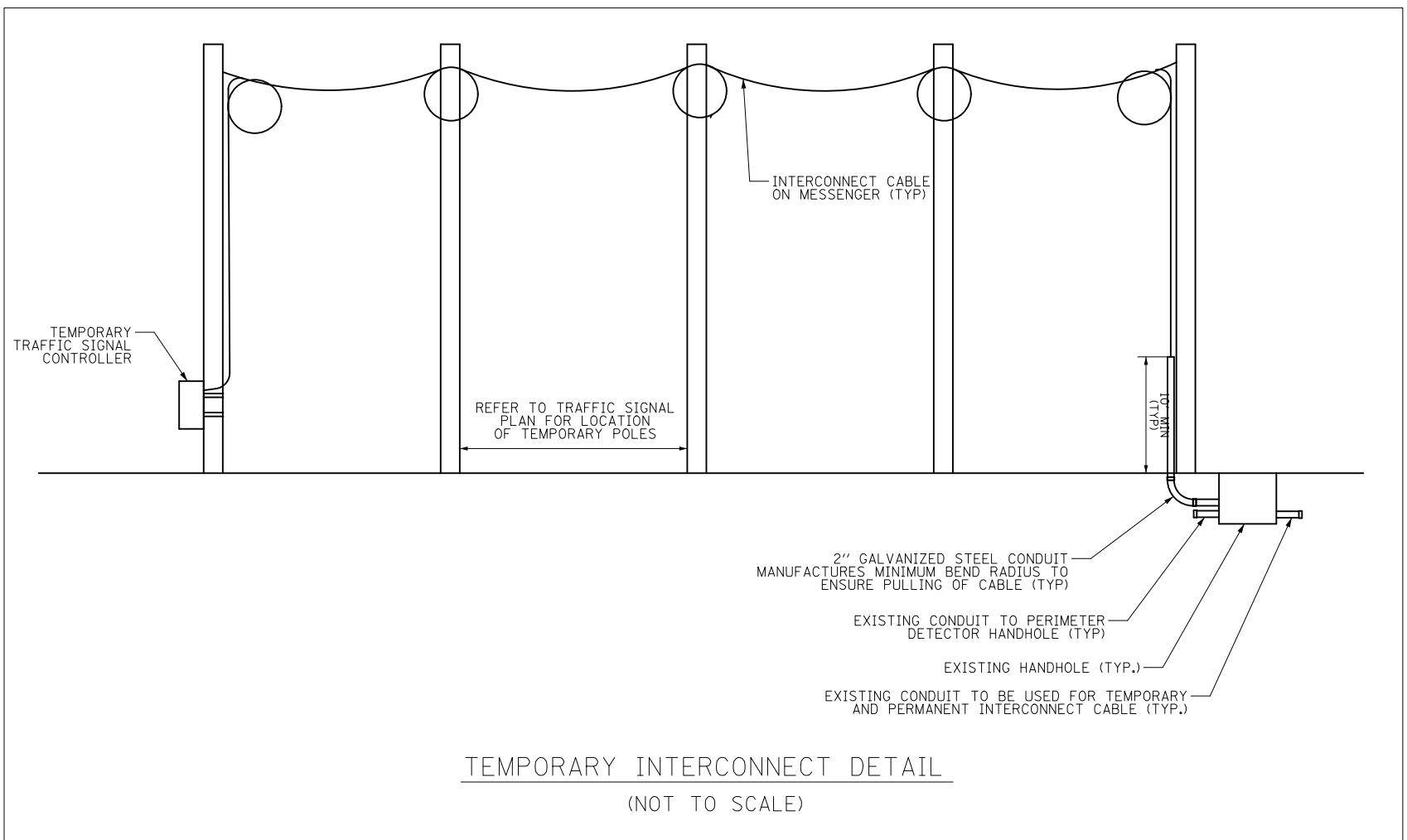
1. THE TEMPORARY INTERCONNECT SPAN WIRE AND AERIAL CABLE SHALL BE ATTACHED TO THE PROPOSED TEMPORARY STREET LIGHTING POLES ALONG THE EAST SIDE OF WEILAND ROAD.
2. SPLICE 24 FIBER (12SM, 12MM) CABLE TO EXISTING FIBER CABLE TO MAINTAIN EXISTING INTERCONNECT UNTIL PROPOSED INTERCONNECT IS FULLY OPERATIONAL. 1" CNC AND DRILL EXISTING HANDHOLE TO BE INCLUDED IN THE COST OF TEMPORARY TRAFFIC SIGNAL INSTALLATION.



DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	



STRUCTURE	STATION	OFFSET
WP-10	101+16	53' RT
WP-11	102+11	65' RT
WP-12	102+87	49' RT
WP-13	105+05	60' RT
WP-14	107+60	56' RT
WP-15	110+21	67' RT
WP-16	110+79	65' LT
WP-17	112+63	64' LT



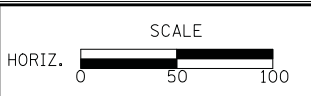
TEMPORARY INTERCONNECT DETAIL
(NOT TO SCALE)

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

CIVILTECH
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 - 7/10/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

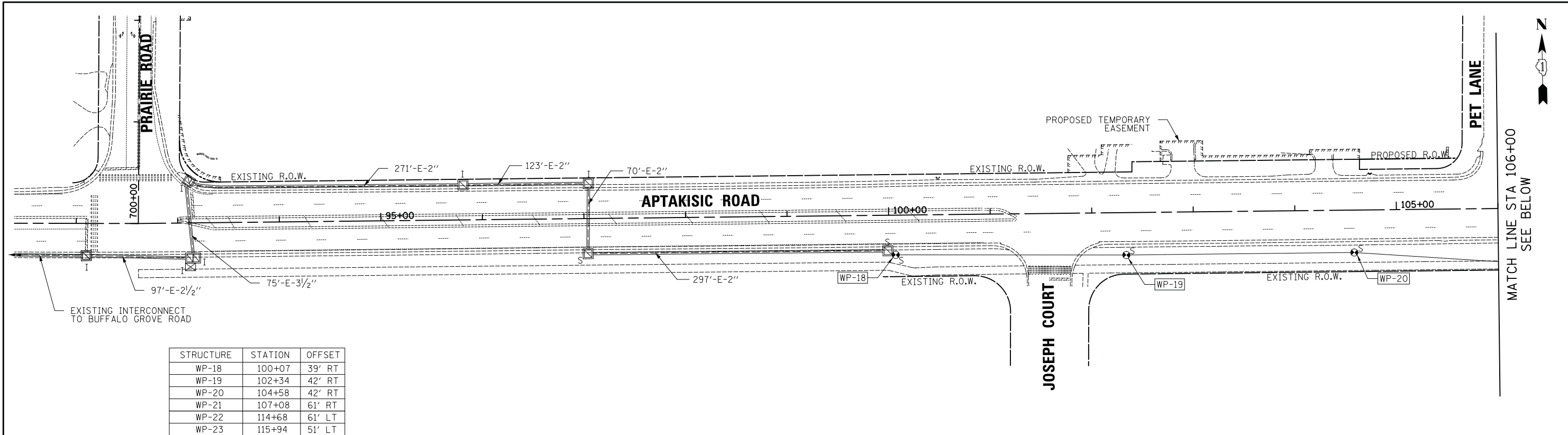


TEMPORARY INTERCONNECT PLAN
WEILAND ROAD
SCALE: 1" = 50'
SHEET NO. 2 OF 2 SHEETS
STA. TO STA.

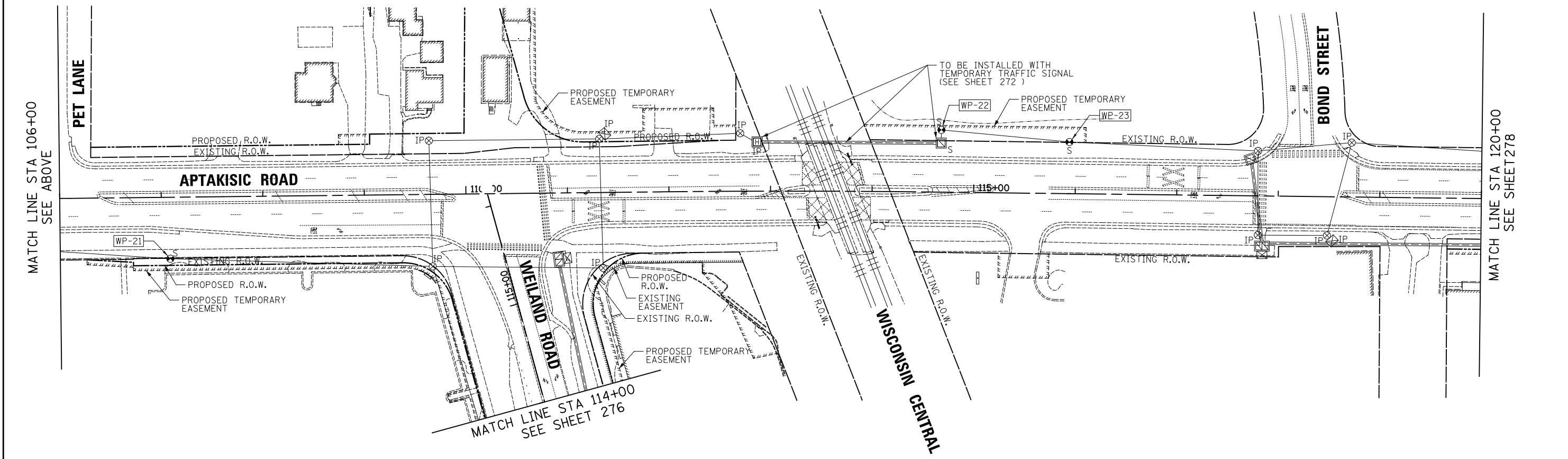
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2665	18-00158-13-WR	LAKE	623	276
CONTRACT NO. 61F25				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	



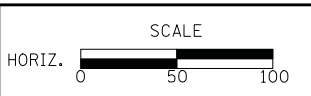
STRUCTURE	STATION	OFFSET
WP-18	100+07	39' RT
WP-19	102+34	42' RT
WP-20	104+58	42' RT
WP-21	107+08	61' RT
WP-22	114+68	61' LT
WP-23	115+94	51' LT



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 - 7/10/2019	REVISED -

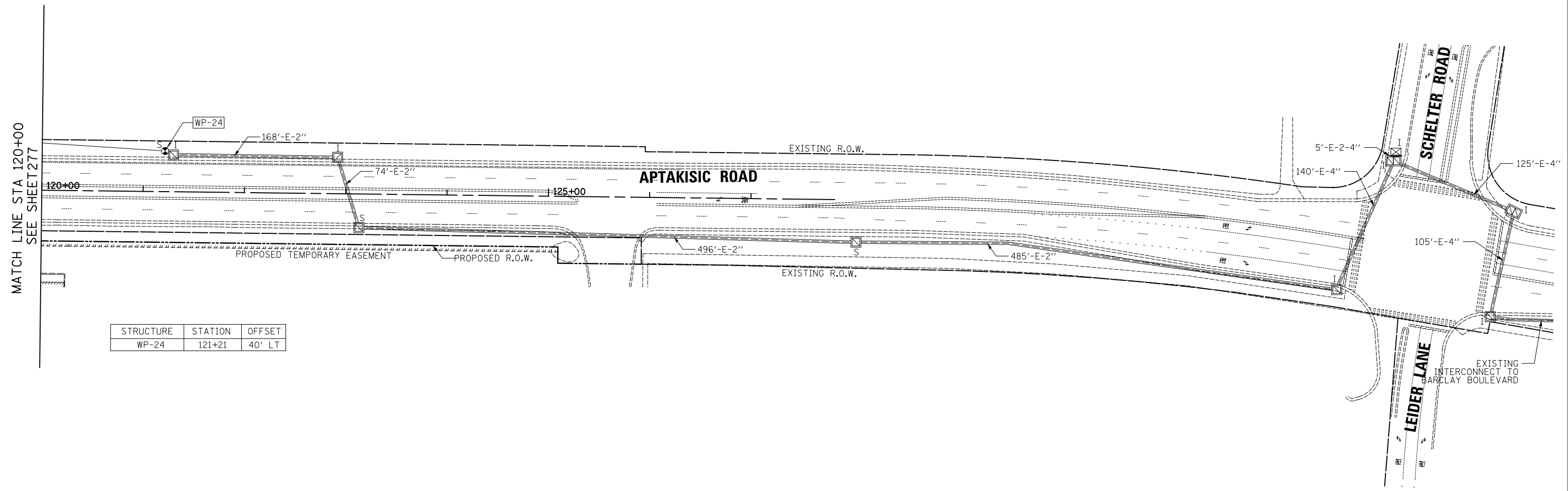
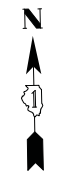
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**



**TEMPORARY INTERCONNECT PLAN
APTAKISIC ROAD**

SCALE: 1" = 50' SHEET NO. 1 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2665	18-00158-13-WR	LAKE	623	277
CONTRACT NO. 61F25				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



STRUCTURE	STATION	OFFSET
WP-24	121+21	40' LT

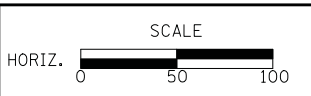
FINAL SURVEY NO.	SURVEYED	BY	DATE
	PLOTTED		
	TEMPLATE		
	AREAS CHECKED		
	AREAS CHECKED		

ORIGINAL SURVEY NO.	SURVEYED	BY	DATE
	PLOTTED		
	TEMPLATE		
	AREAS CHECKED		
	AREAS CHECKED		

CIVILTECH
 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 - 7/10/2019	REVISED -

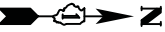
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**



**TEMPORARY INTERCONNECT PLAN
 APTAKISIC ROAD**

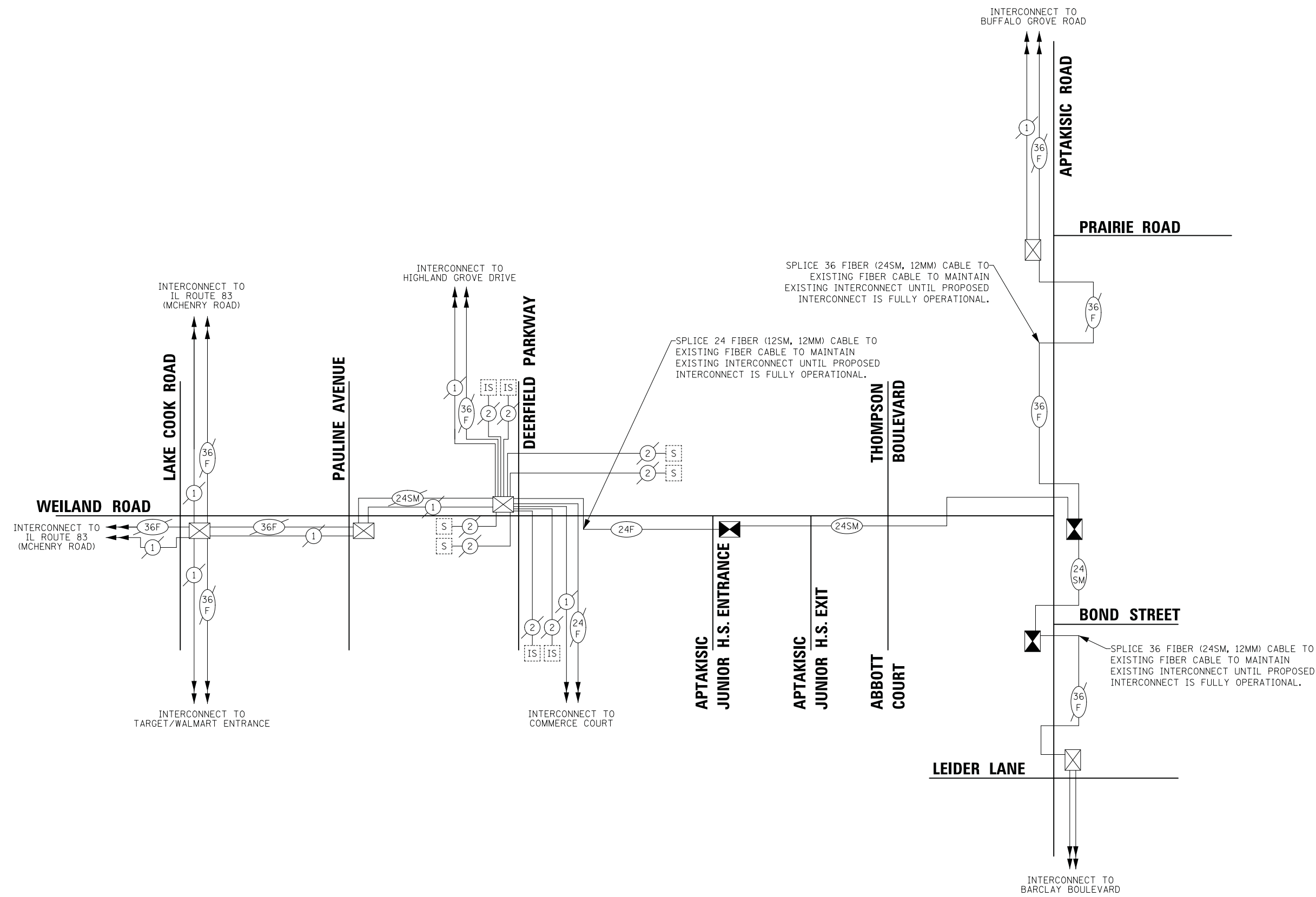
SCALE: 1" = 50' SHEET NO. 2 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2665	18-00158-13-WR	LAKE	623	278
CONTRACT NO. 61F25				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



FINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	DATE

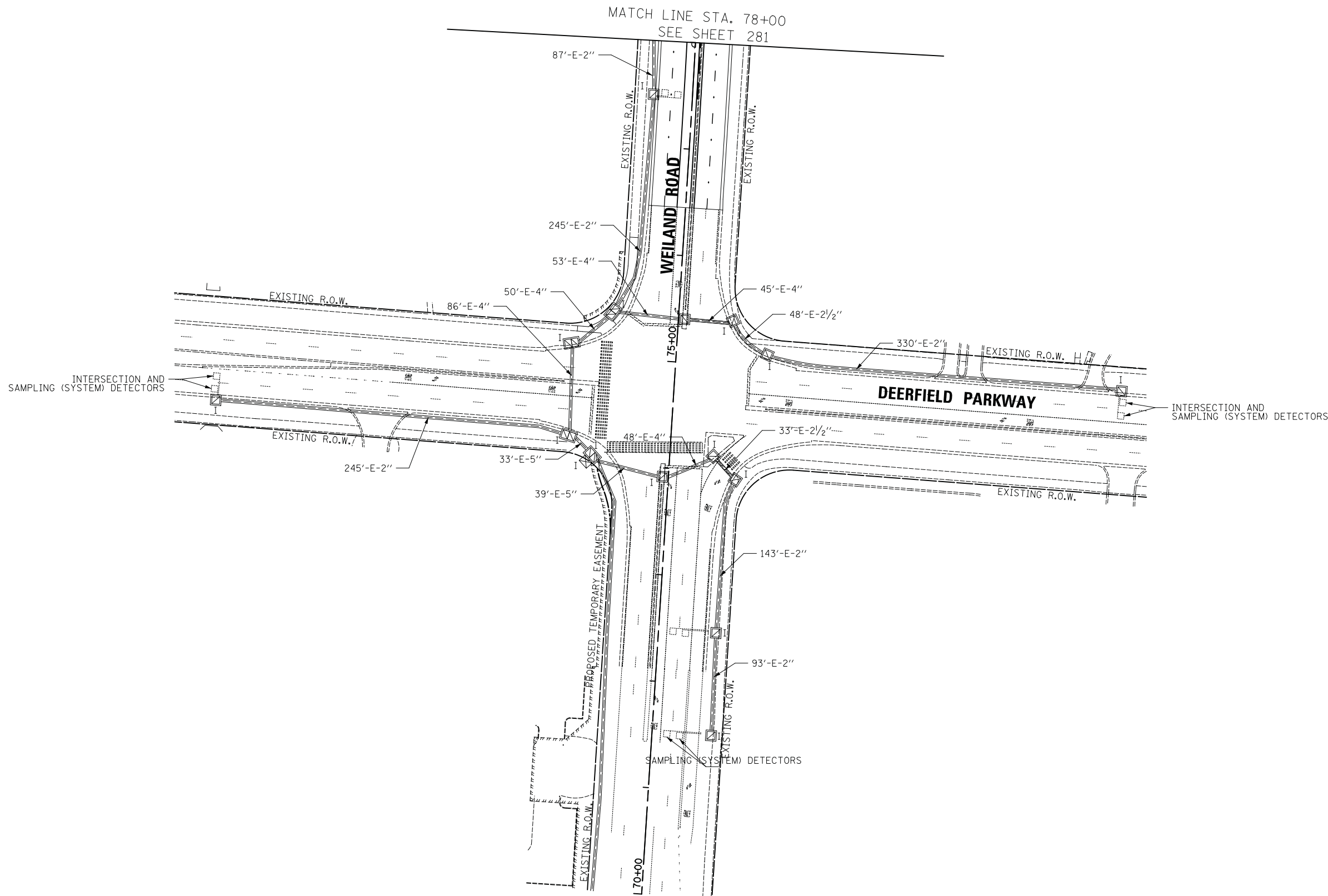
ORIGINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	DATE





FINL	SURVEYED	DATE
SURVEY	PLOTTED	BY
NOTE BOOK	TEMPLATE	
NO.	AREAS CHECKED	

ORIGINAL	SURVEYED	DATE
SURVEY	PLOTTED	BY
NOTE BOOK	TEMPLATE	
NO.	AREAS CHECKED	



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 - 7/10/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



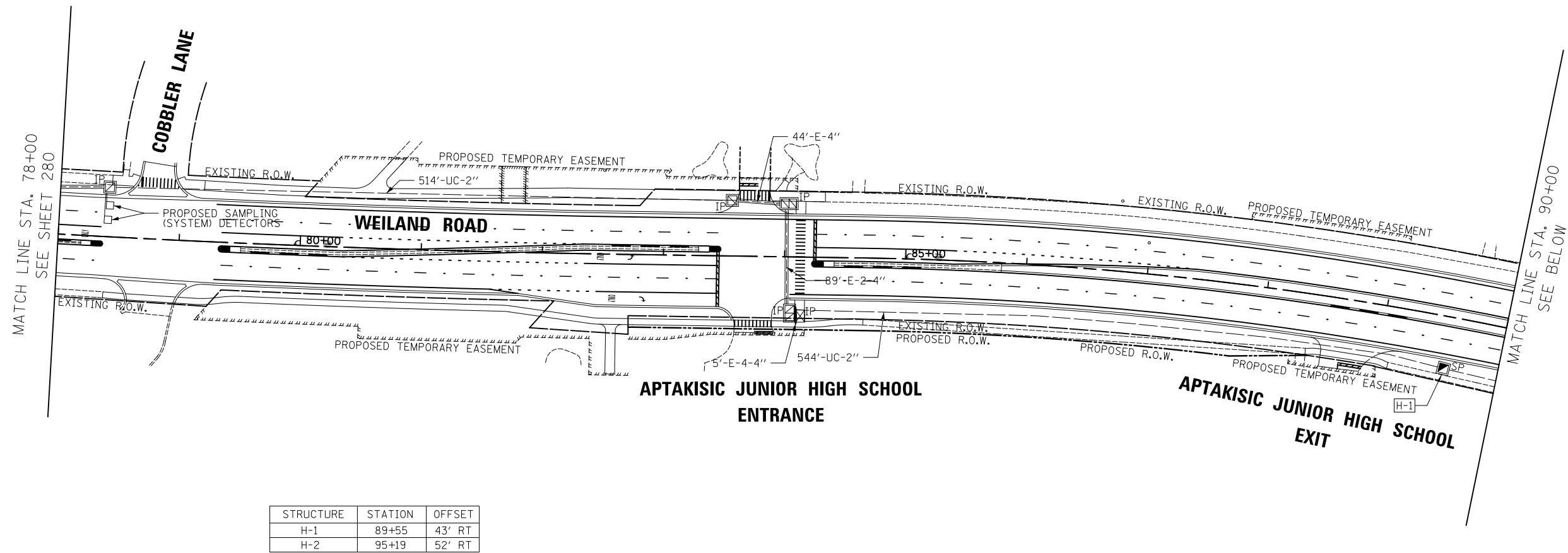
INTERCONNECT PLAN
WEILAND ROAD

SCALE: 1" = 50' SHEET NO. 1 OF 3 SHEETS STA. TO STA.

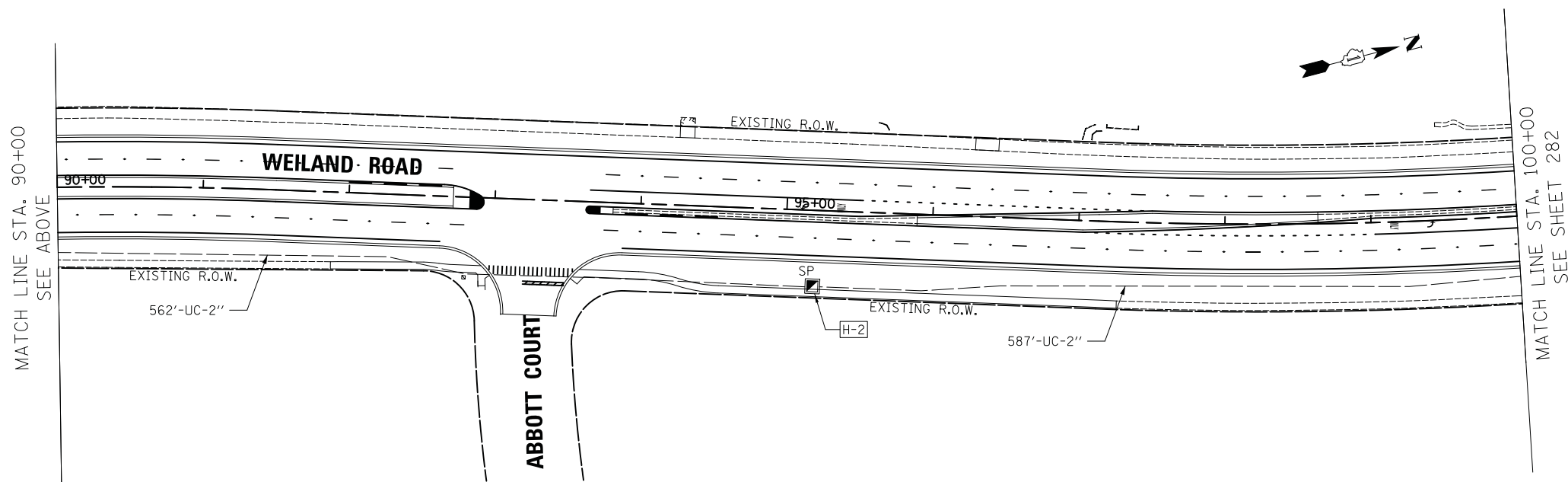
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2665	18-00158-13-WR	LAKE	623	280
CONTRACT NO. 61F25				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

NO.	
AREAS CHECKED	
TEMPLE	
PLOTTED	
SURVEY	
NOTE BOOK	
BY	
DATE	

NO.	
AREAS CHECKED	
TEMPLE	
PLOTTED	
SURVEY	
NOTE BOOK	
BY	
DATE	



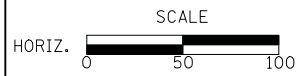
STRUCTURE	STATION	OFFSET
H-1	89+55	43' RT
H-2	95+19	52' RT



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 - 7/10/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



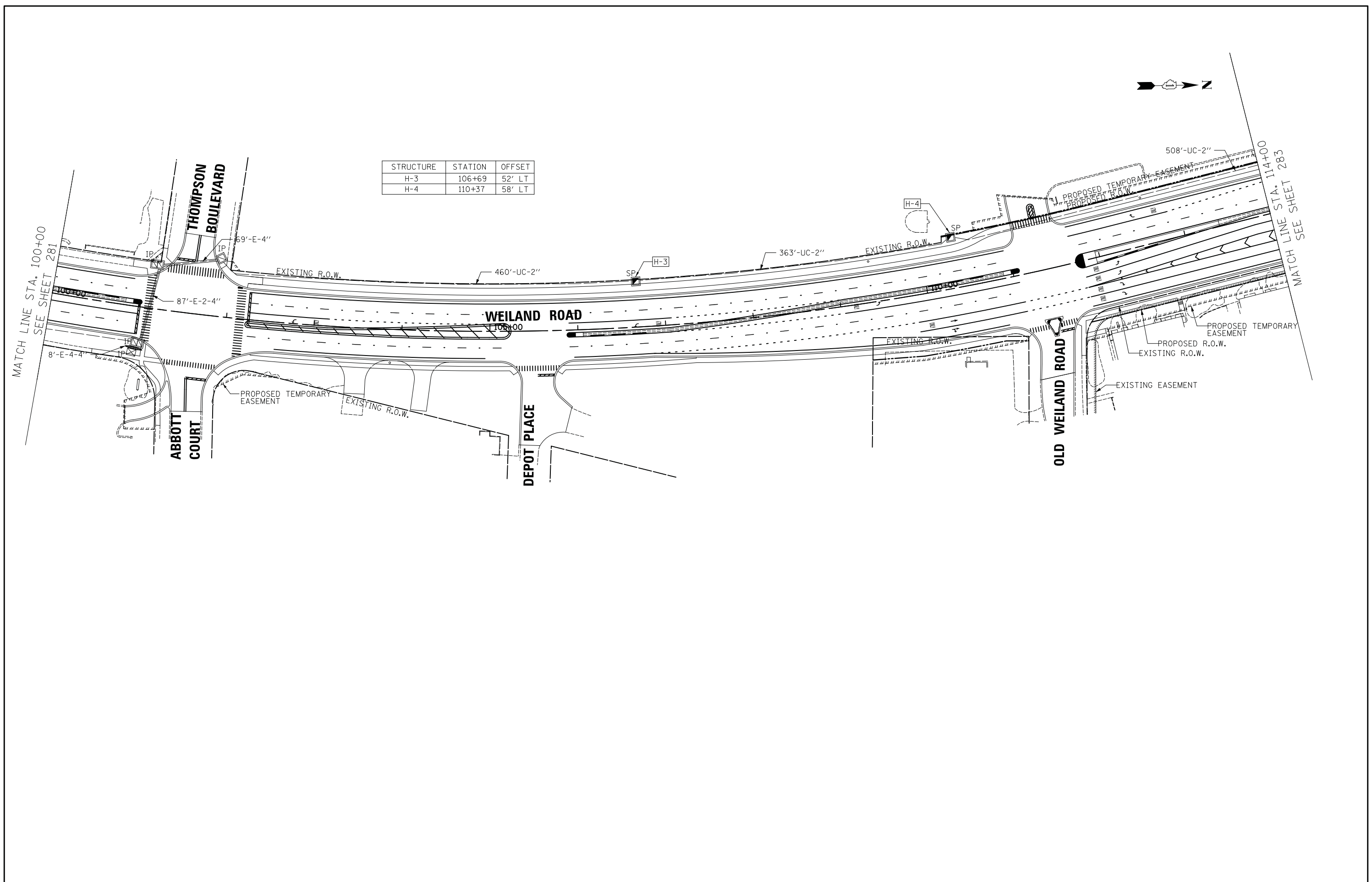
INTERCONNECT PLAN
WEILAND ROAD

SCALE: 1" = 50' SHEET NO. 2 OF 3 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2665	18-00158-13-WR	LAKE	623	281
CONTRACT NO. 61F25				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	CHECKED		



STRUCTURE	STATION	OFFSET
H-3	106+69	52' LT
H-4	110+37	58' LT

CIVILTECH
 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 - 7/10/2019	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**



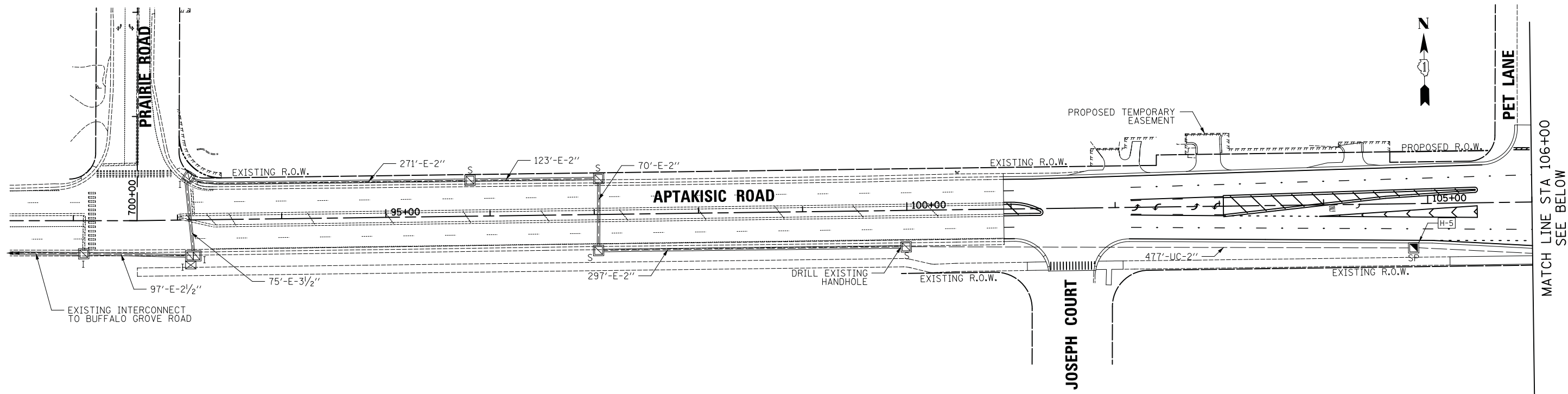
**INTERCONNECT PLAN
 WEILAND ROAD**

SCALE: 1" = 50' SHEET NO. 3 OF 3 SHEETS STA. TO STA.

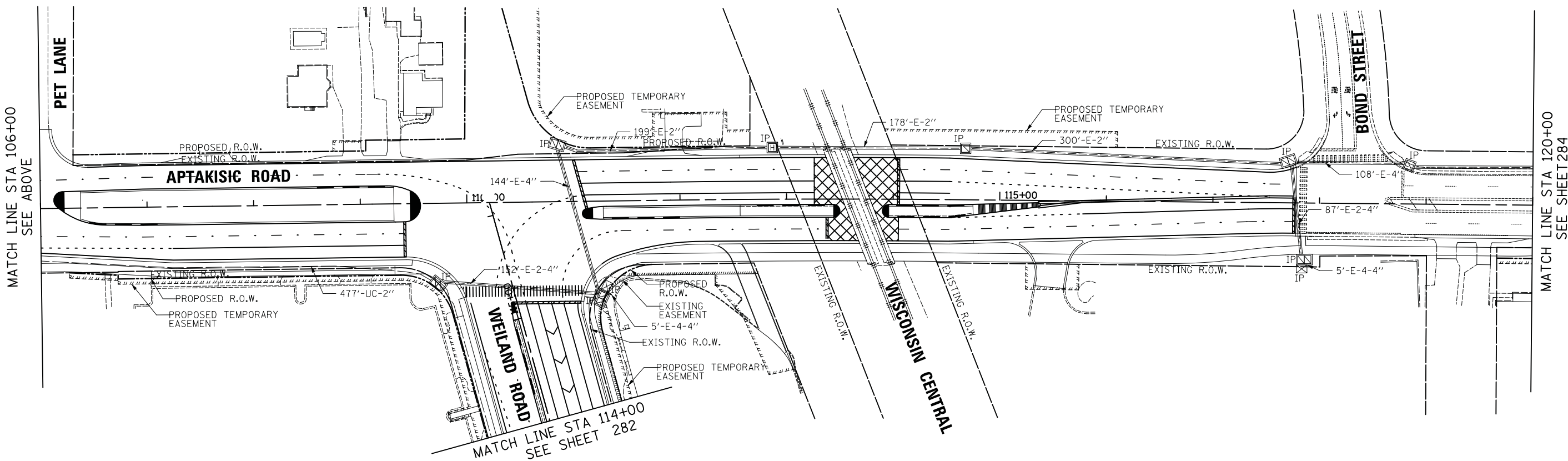
F.A.U. R.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2665	18-00158-13-WR	LAKE	623	282
CONTRACT NO. 61F25				
<small>FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT</small>				

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	



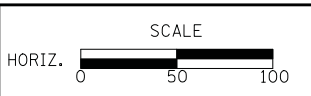
STRUCTURE	STATION (FROM APTAKISIC CL)	OFFSET	POSSIBLE UTILITY CONFLICTS
H-5	104+86	42' RT	NONE



CIVILTECH
 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 - 7/10/2019	REVISED -

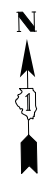
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**



**INTERCONNECT PLAN
 APTAKISIC ROAD**

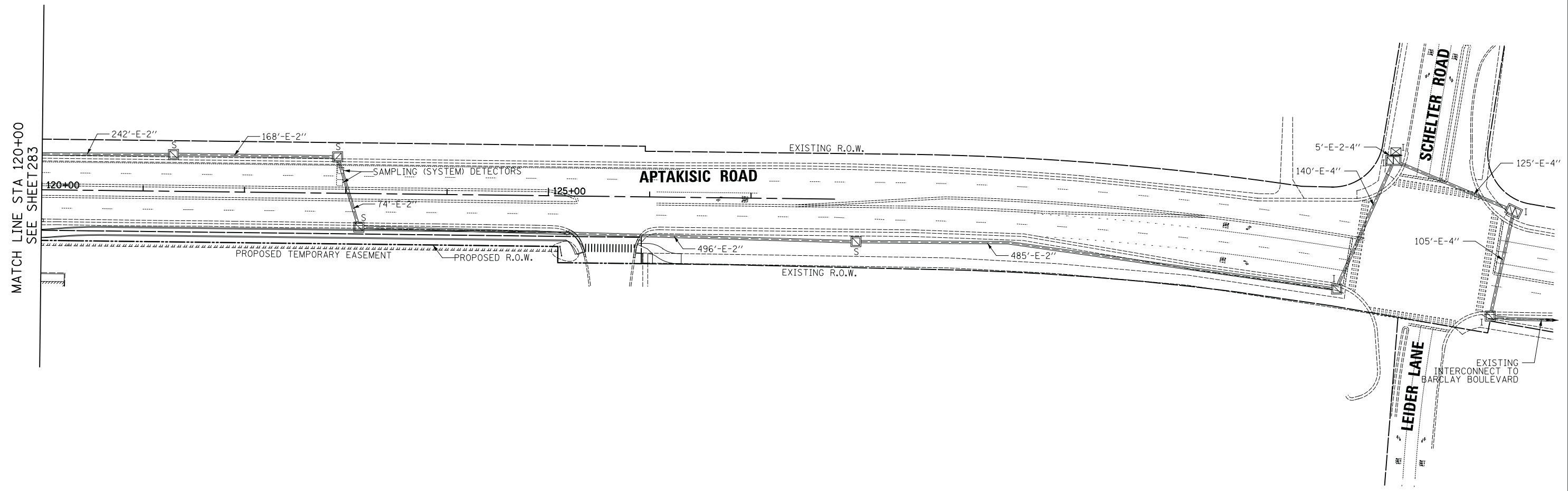
SCALE: 1" = 50' SHEET NO. 1 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2665	18-00158-13-WR	LAKE	623	283
CONTRACT NO. 61F25				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



FINAL SURVEY NO.	SURVEYED	BY	DATE
	PLOTTED		
	TEMPLATE		
	AREAS CHECKED		

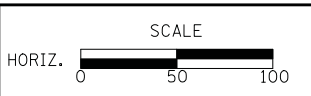
ORIGINAL SURVEY NO.	SURVEYED	BY	DATE
	PLOTTED		
	TEMPLATE		
	AREAS CHECKED		



CIVILTECH
 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 - 7/10/2019	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**



**INTERCONNECT PLAN
 APTAKSIC ROAD**

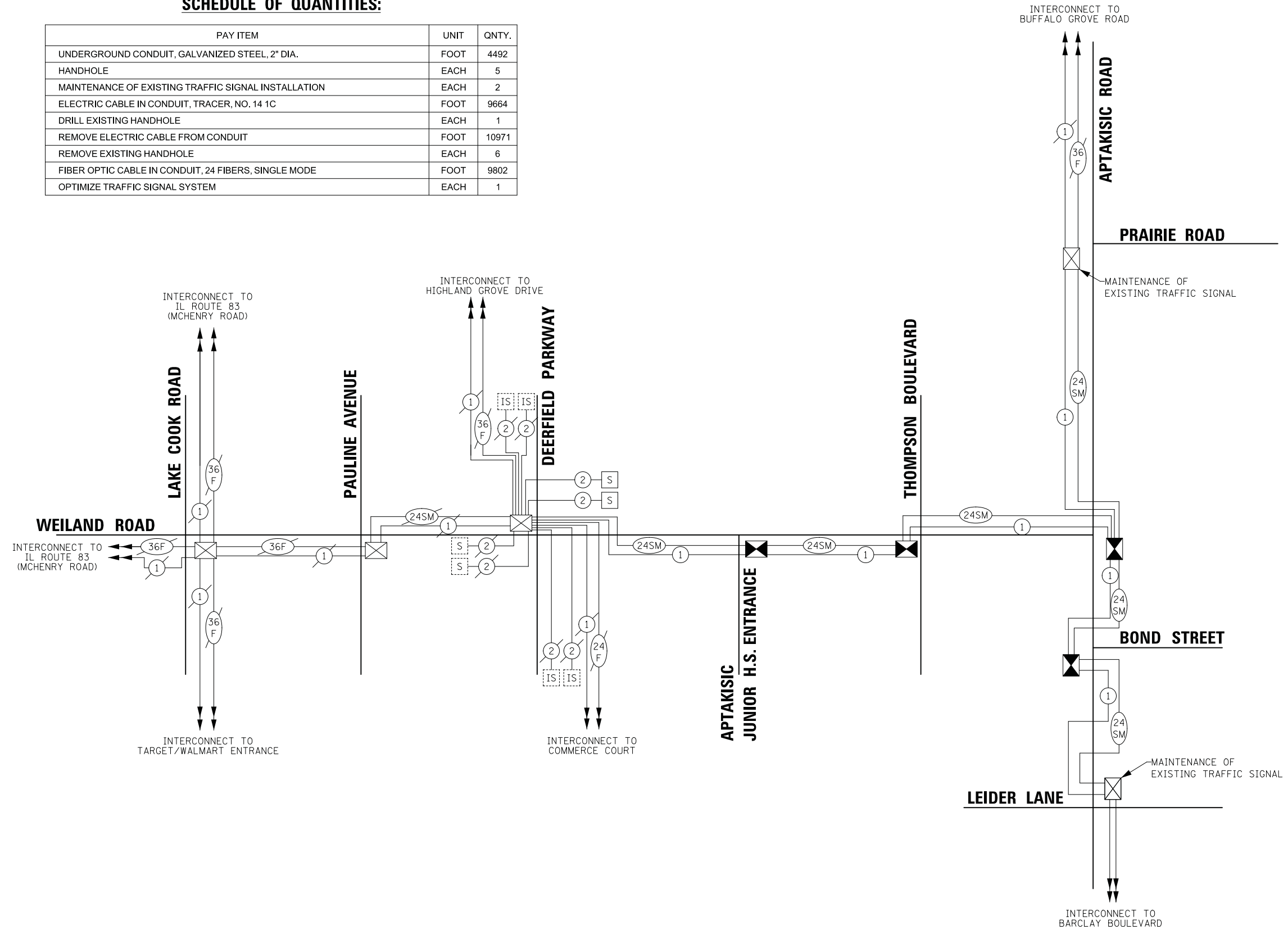
SCALE: 1" = 50' SHEET NO. 2 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2665	18-00158-13-WR	LAKE	623	284
				CONTRACT NO. 61F25
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



SCHEDULE OF QUANTITIES:

PAY ITEM	UNIT	QNTY.
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	4492
HANDHOLE	EACH	5
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	2
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	9664
DRILL EXISTING HANDHOLE	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	10971
REMOVE EXISTING HANDHOLE	EACH	6
FIBER OPTIC CABLE IN CONDUIT, 24 FIBERS, SINGLE MODE	FOOT	9802
OPTIMIZE TRAFFIC SIGNAL SYSTEM	EACH	1



DATE	BY	SURVEYED	PLOTTED	TEMPLATE	AREAS CHECKED
NO.		FINAL SURVEY	NOTE BOOK		

DATE	BY	SURVEYED	PLOTTED	TEMPLATE	AREAS CHECKED
NO.		ORIGINAL SURVEY	NOTE BOOK		



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 - 7/10/2019	REVISED -

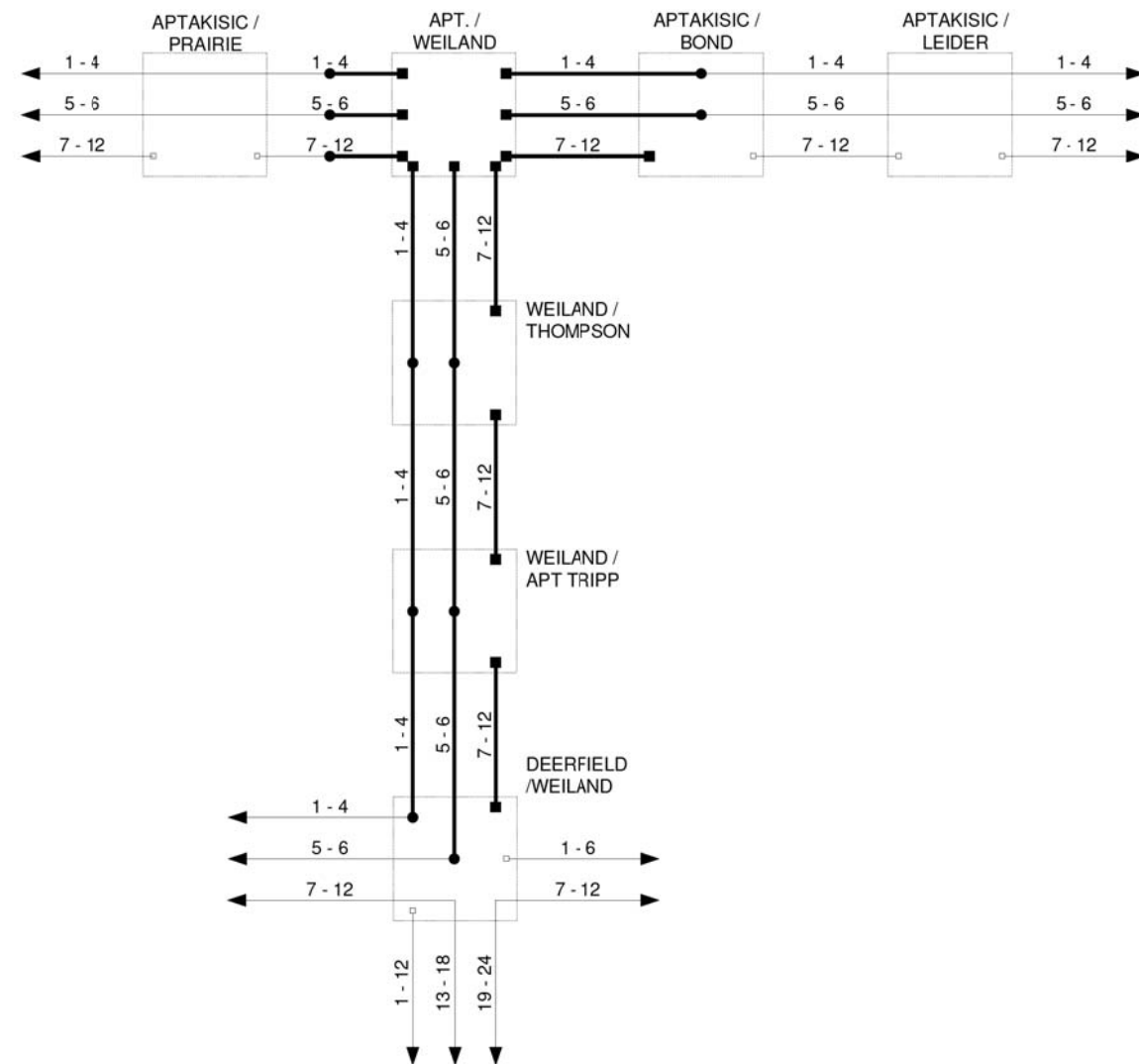
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERCONNECT SCHEMATIC

SCALE: NO SCALE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2665	18-00158-13-WR	LAKE	623	285
				CONTRACT NO. 61F25

FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT



TEMP

- 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

DATE	BY	SURVEYED
		PLOTTED
		TEMPLATE
		AREAS CHECKED
		AREAS CHECKED
NO.		

DATE	BY	SURVEYED
		PLOTTED
		TEMPLATE
		AREAS CHECKED
		AREAS CHECKED
NO.		

DESIGNED - DG	REVISED -
DRAWN - DG	REVISED -
CHECKED - DG	REVISED -
DATE 2018/11/08	REVISED -

LAKE COUNTY
DIVISION OF TRANSPORTATION

APTAKISIC / WEILAND
FIBER SPLICING DIAGRAM - TEMP

SCALE N/A

ROUTE	SECTION	ROUTE	SECTION	SHEET	SHEETS



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 - 7/10/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY FIBER SPLICING DIAGRAM
WEILAND ROAD AND APTAKISIC ROAD

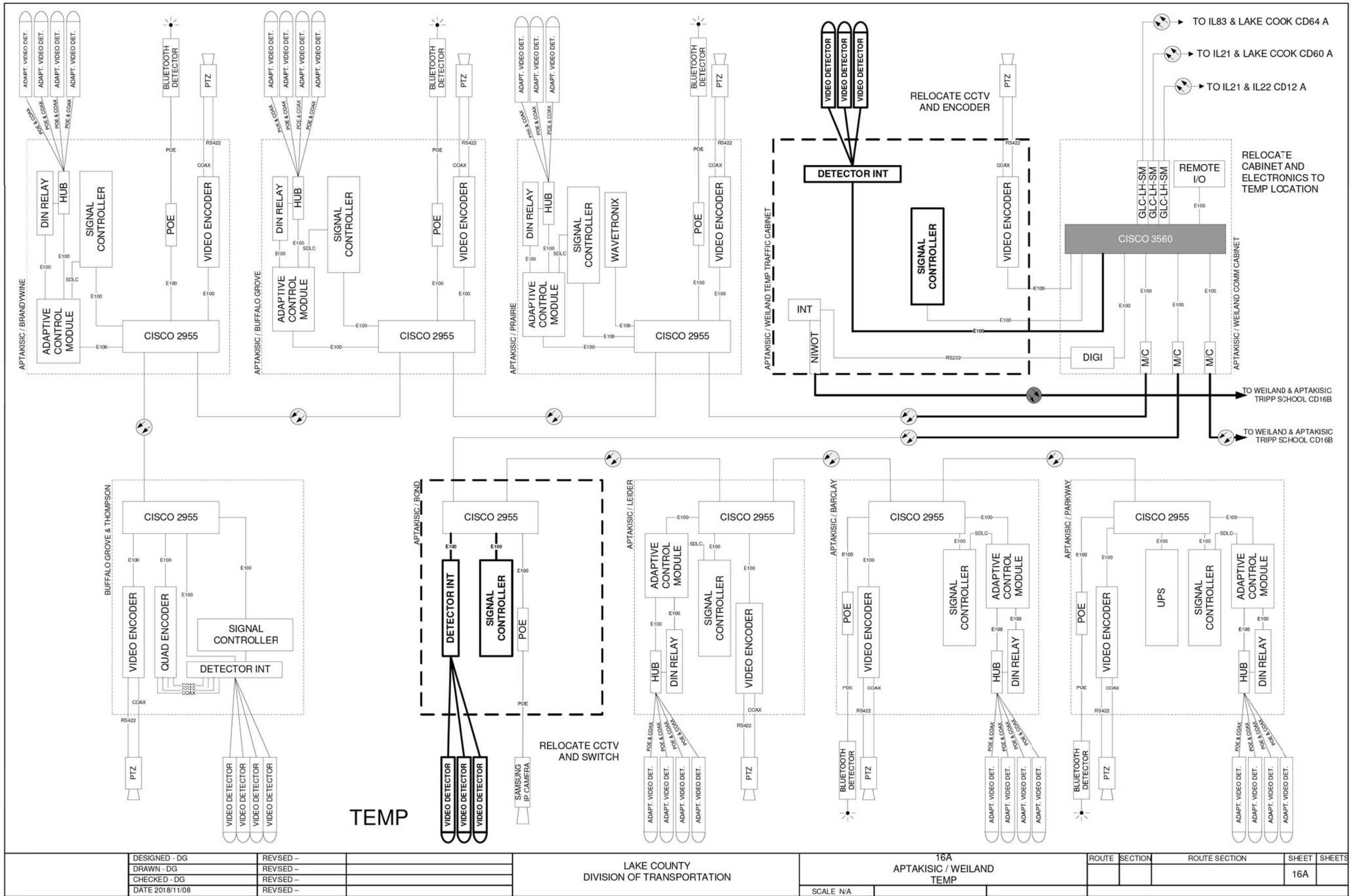
SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2665	18-00158-13-WR	LAKE	623	286
CONTRACT NO. 61F25				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS CHECKED		

PARSONS



DESIGNED - DG	REVISED -
DRAWN - DG	REVISED -
CHECKED - DG	REVISED -
DATE 2018/11/08	REVISED -

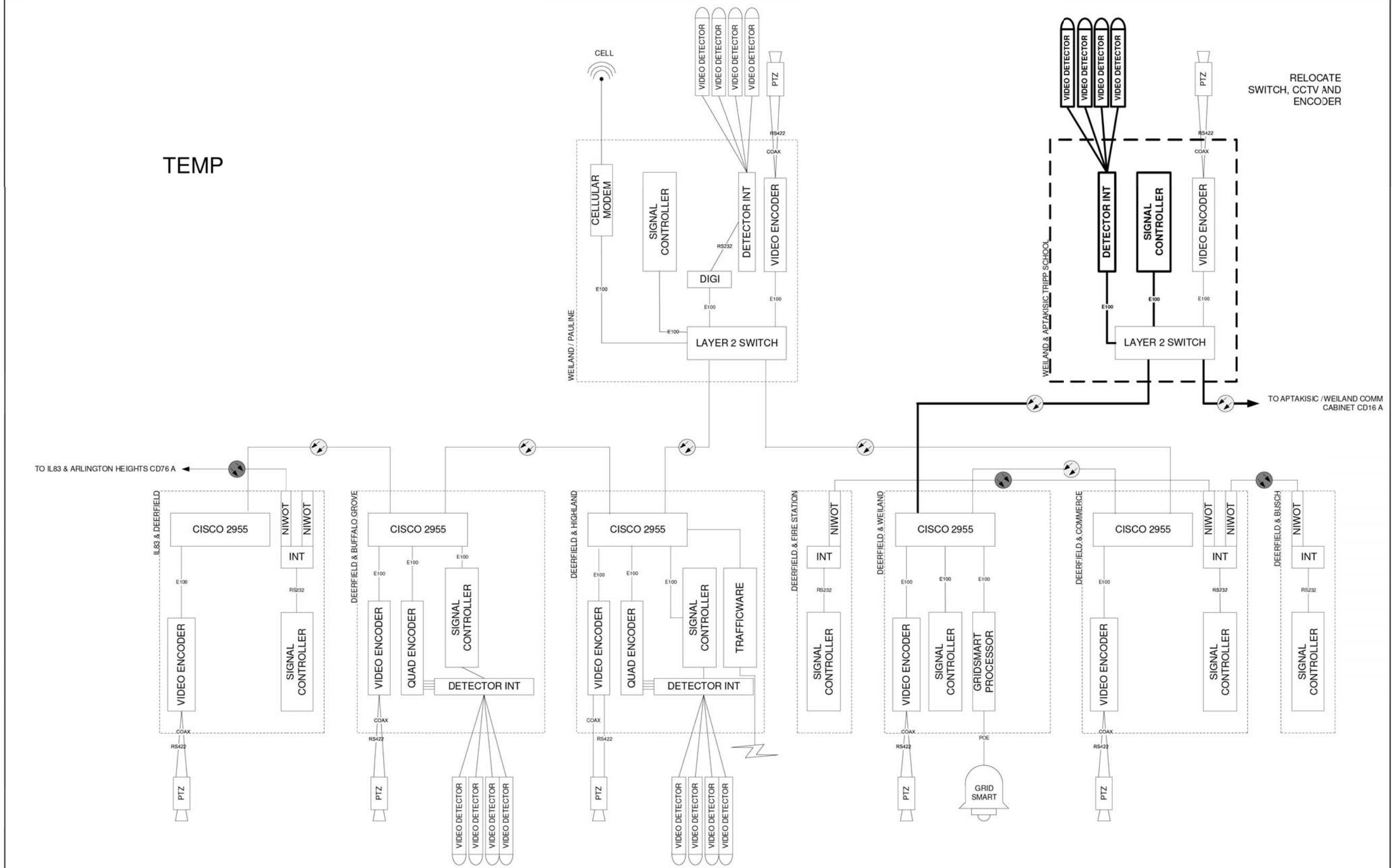
LAKE COUNTY
DIVISION OF TRANSPORTATION

16A APTAKISIC / WEILAND TEMP		ROUTE	SECTION	ROUTE	SECTION	SHEET	SHEETS
SCALE N/A						16A	

FINAL SURVEY NO.	SURVEYED BY	DATE

ORIGINAL SURVEY NO.	SURVEYED BY	DATE

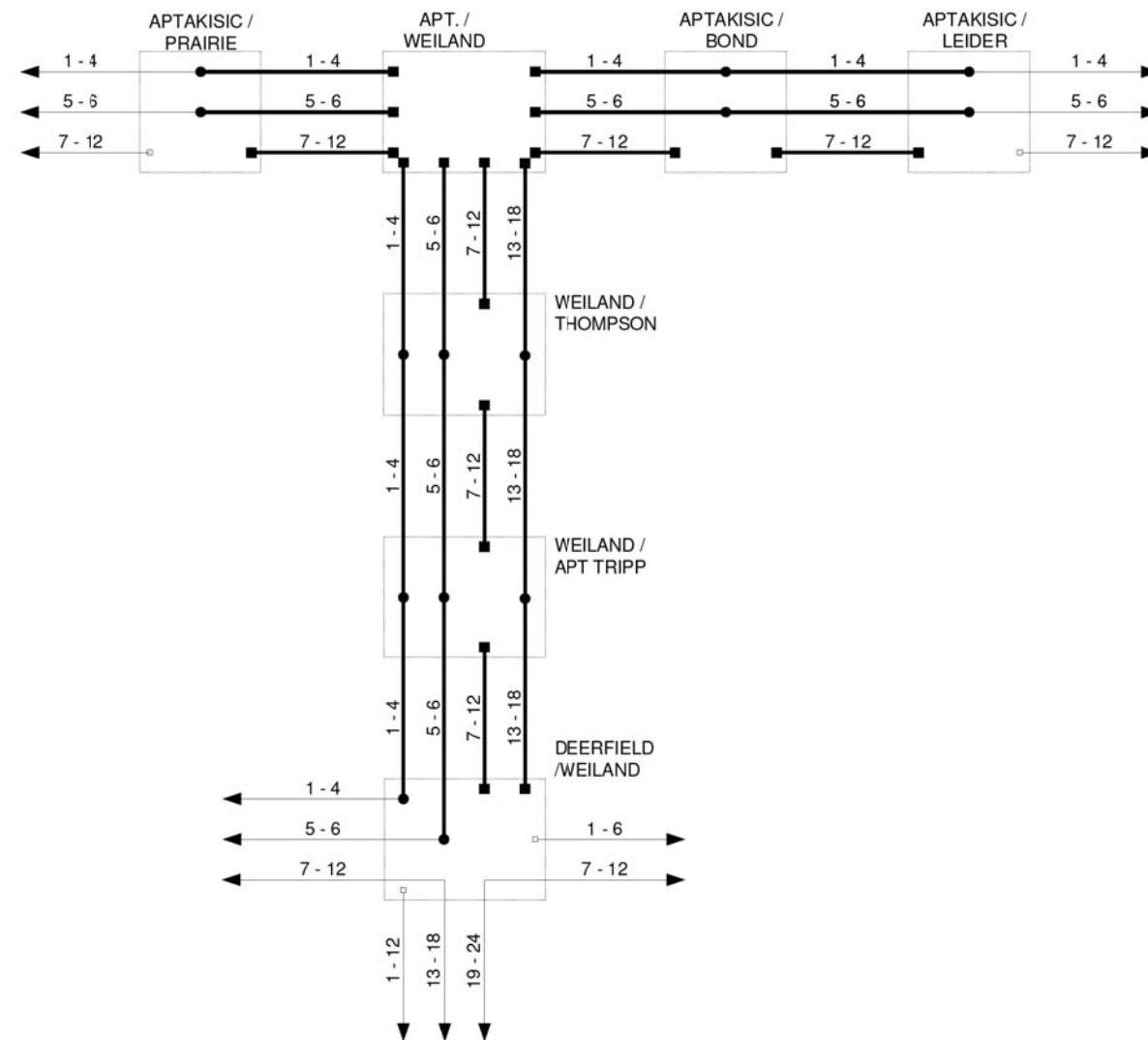
TEMP



DESIGNED - DG	REVISED 2016.06.22
DRAWN - DG	REVISED 2017.07.05
CHECKED - DG	REVISED -
DATE 2018/11/08	REVISED -

LAKE COUNTY
DIVISION OF TRANSPORTATION

SCALE N/A	16B	SHEET SHEETS
	16B	288



FINAL

- 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 SURVEY NO.	DATE
SURVEYED	BY
PLOTTED	
TEMPLATE	
AREAS CHECKED	

ORIGINAL SURVEY NO.	DATE
SURVEYED	BY
PLOTTED	
TEMPLATE	
AREAS CHECKED	

DESIGNED - DG	REVISED -
DRAWN - DG	REVISED -
CHECKED - DG	REVISED -
DATE 2018/11/08	REVISED -

LAKE COUNTY
DIVISION OF TRANSPORTATION

APTAKISIC / WEILAND
FIBER SPLICING DIAGRAM - FINAL

SCALE N/A

ROUTE	SECTION	ROUTE SECTION	SHEET	SHEETS



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 - 7/10/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED FIBER SPLICING DIAGRAM
WEILAND ROAD AND APTAKISIC ROAD

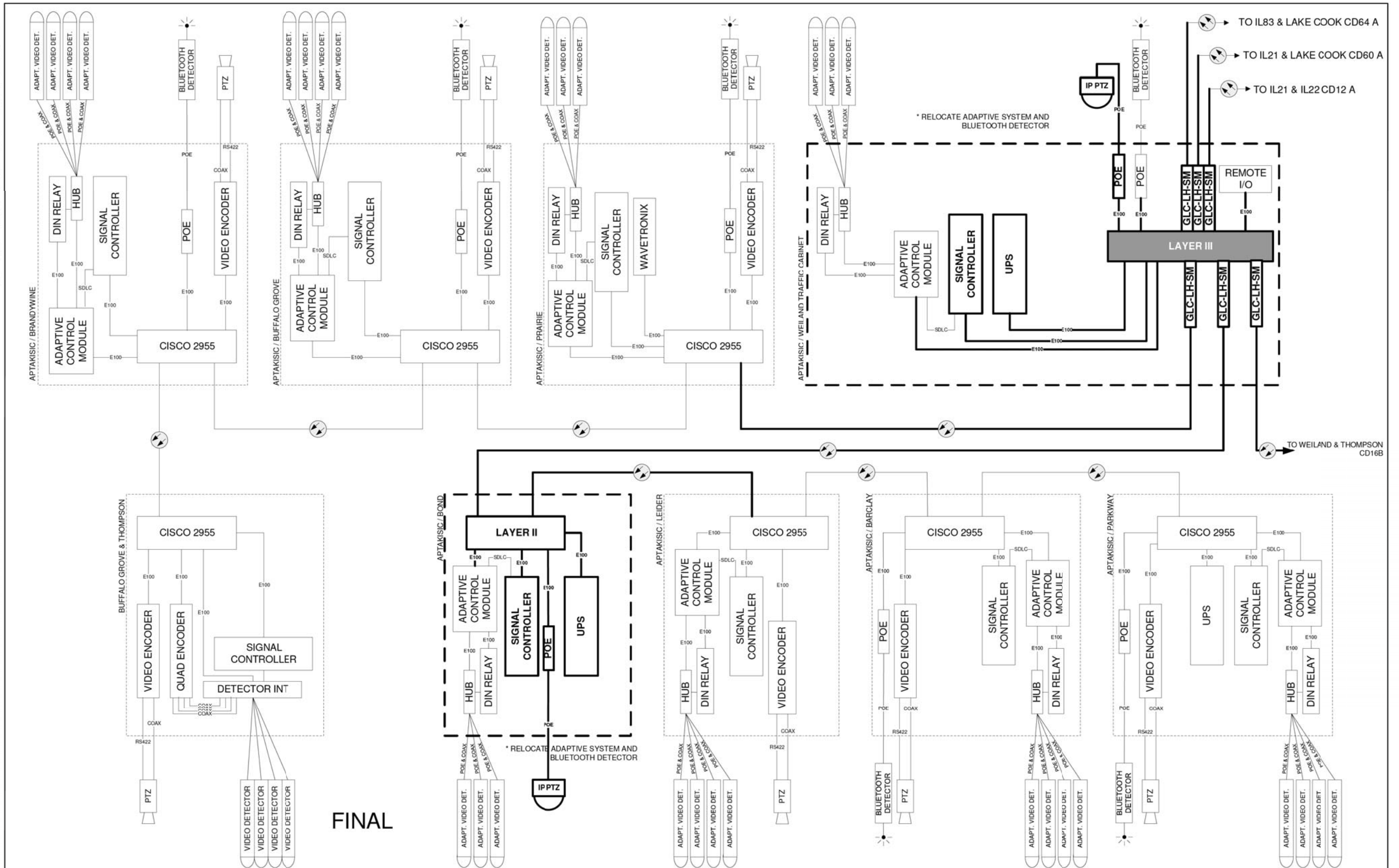
SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2665	18-00158-13-WR	LAKE	623	289
CONTRACT NO. 61F25				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

FINAL SURVEY	DATE
PLOTTED	BY
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

ORIGINAL SURVEY	DATE
PLOTTED	BY
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

PARSONS



FINAL

DESIGNED - DG	REVISED -
DRAWN - DG	REVISED -
CHECKED - DG	REVISED -
DATE 2018/11/08	REVISED -

LAKE COUNTY
DIVISION OF TRANSPORTATION

16A
APTAKISIC / WEILAND
PROPOSED

ROUTE	SECTION	ROUTE	SECTION	SHEET	SHEETS
				16A	



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 - JUE	REVISED -
DATE - 7/10/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CABINET DETAIL
WEILAND ROAD AND APTAKISIC ROAD

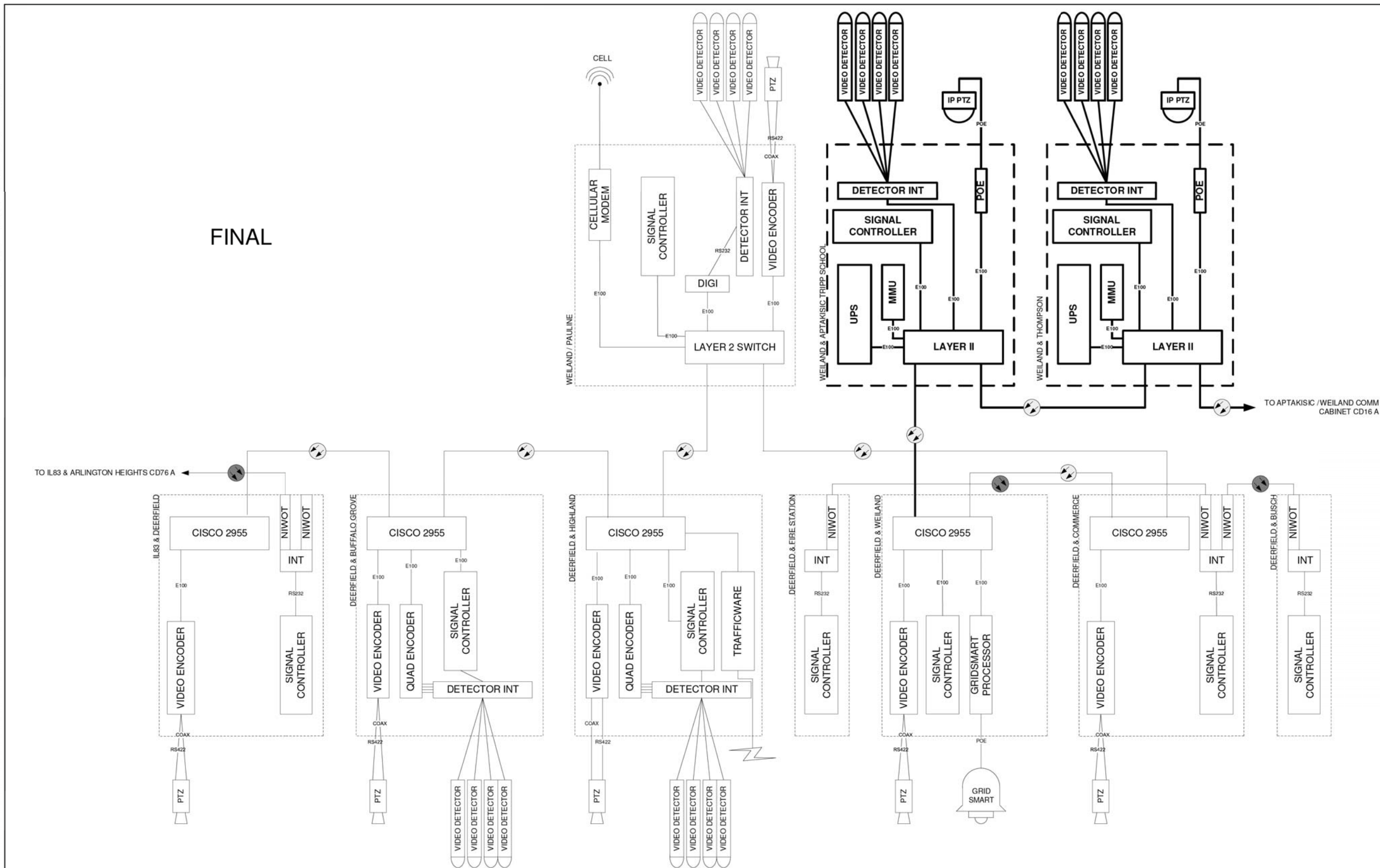
SHEET NO. 1 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2665	18-00158-13-WR	LAKE	623	290
CONTRACT NO. 61F25				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

FINAL

FINAL SURVEY NO.	SURVEYED BY	DATE
NOTE BOOK NO.	PLOTTED TEMPLATE AREAS CHECKED	

ORIGINAL SURVEY NO.	SURVEYED BY	DATE
NOTE BOOK NO.	PLOTTED TEMPLATE AREAS CHECKED	



TO IL83 & ARLINGTON HEIGHTS CD76 A

TO APTAKISIC / WEILAND COMM CABINET CD16 A

DESIGNED - DG	REVISED 2016.06.22
DRAWN - DG	REVISED 2017.07.05
CHECKED - DG	REVISED -
DATE 2018/11/08	REVISED -

LAKE COUNTY
DIVISION OF TRANSPORTATION













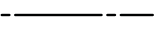
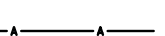

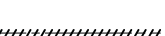
16B
APTAKISIC / WEILAND
PROPOSED

ROUTE	SECTION	ROUTE SECTION	SHEET	SHEETS
			16B	

DESIGNED - LEP	REVISED -
DRAWN - LEP	REVISED -
CHECKED - JJE	REVISED -
DATE - 7/10/2019	REVISED -

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2665	18-00158-13-WR	LAKE	623	291
CONTRACT NO. 61F25				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

LEGEND

-  TEMPORARY LIGHTING UNIT
LUMINAIRE, 250 WATT HPS, TYPE III DISTRIBUTION
TEMPORARY WOOD POLE, 50 FT. CLASS 4,
15 FT. MAST ARM (40 FT. M.H.)
-  TEMPORARY LIGHTING UNIT
LUMINAIRE, 100 WATT HPS, TYPE III DISTRIBUTION
TEMPORARY WOOD POLE, 25 FT.
3 FT. MAST ARM (16 FT. M.H.)
-  TEMPORARY COMBINATION TRAFFIC SIGNAL AND STREET LIGHT
LUMINAIRE, 250 WATT HPS, TYPE III DISTRIBUTION
40 FT. M.H., 15 FT. MAST ARM
LUMINAIRE POWERED THROUGH TRAFFIC SIGNAL CONTROLLER
(SEE TRAFFIC SIGNAL PLANS)
-  TEMPORARY COMBINATION TRAFFIC SIGNAL AND STREET LIGHT
LUMINAIRE, 400 WATT HPS, TYPE III DISTRIBUTION
40 FT. M.H., 20 FT. MAST ARM
LUMINAIRE POWERED THROUGH TRAFFIC SIGNAL CONTROLLER
(SEE TRAFFIC SIGNAL PLANS)
-  TEMPORARY COMBINATION TRAFFIC SIGNAL AND STREET LIGHT
LUMINAIRE, 400 WATT HPS, TYPE III DISTRIBUTION
40 FT. M.H., 15 FT. MAST ARM
LUMINAIRE POWERED THROUGH TRAFFIC SIGNAL CONTROLLER
(SEE TRAFFIC SIGNAL PLANS)
-  PROPOSED LIGHTING UNIT
LUMINAIRE INSTALLATION, TYPE 1 - LUMINAIRE, 130 WATT, LED
LIGHT POLE, WEATHERING STEEL, 35 FT. M.H., 6 FT. MAST ARM
-  PROPOSED LIGHTING UNIT
LUMINAIRE INSTALLATION, TYPE 1 - LUMINAIRE, 130 WATT, LED
LIGHT POLE, WEATHERING STEEL, 15 FT. M.H., 3 FT. MAST ARM
-  PROPOSED COMBINATION TRAFFIC SIGNAL AND STREET LIGHT
LUMINAIRE INSTALLATION, TYPE 1 - LUMINAIRE, 130 WATT, LED
45 FT. M.H., 20 FT. MAST ARM
LUMINAIRE POWERED THROUGH TRAFFIC SIGNAL CONTROLLER
(SEE TRAFFIC SIGNAL PLANS)
-  PROPOSED COMBINATION TRAFFIC SIGNAL AND STREET LIGHT
LUMINAIRE INSTALLATION, TYPE 2 - LUMINAIRE, 268 WATT, LED
45 FT. M.H., 20 FT. MAST ARM
LUMINAIRE POWERED THROUGH TRAFFIC SIGNAL CONTROLLER
(SEE TRAFFIC SIGNAL PLANS)
-  EXISTING LIGHTING UNIT TO BE REMOVED
-  PROPOSED LIGHTING CONTROLLER
-  TEMPORARY WOOD POLE, 50 FT., CLASS 4
-  PROPOSED UNIT DUCT
(SIZE AS SPECIFIED IN PLANS)
-  TEMPORARY AERIAL CABLE
-  EXISTING CABLES
-  REMOVAL OF EXISTING CABLES

LIGHTING GENERAL NOTES:

1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION.
2. 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.
3. EXISTING LIGHTING WILL REMAIN OPERATIONAL UNTIL TEMPORARY LIGHTING ARE INSTALLED AND OPERATIONAL. TEMPORARY LIGHTING WILL REMAIN OPERATIONAL UNTIL PROPOSED LIGHTING SYSTEMS ARE INSTALLED AND OPERATIONAL.
4. 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 AT THE CONSTRUCTION INSPECTION.
5. 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 PRIOR TO STARTING WORK.
6. 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.
7. LIGHT POLE FOUNDATION TYPE IS SPECIFIED IN THE PLANS BASE ON UTILITY INFORMATION. IF IT IS DETERMINED THAT THE CONDITIONS IN THE FIELD REQUIRES AN ALTERNATE FOUNDATION TYPE, AN ALTERNATE FOUNDATION TYPE WILL BE USED WITH THE APPROVAL OF THE ENGINEER. THE PAY ITEM LIGHT POLE FOUNDATION, 30" DIAMETER WILL BE THE PREFERRED FOUNDATION TO USE ON THE PROJECT. NO COMPENSATION WILL BE GIVEN TO THE CONTRACTOR IF THE PAY ITEM IS NOT USED.
8. NO POLES SHALL BE ERECTED UNTIL THE RESPECTIVE FOUNDATIONS HAVE CURED, AS APPROVED BY THE ENGINEER.
9. 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.
10. CONDUIT AND UNIT DUCT MUST BE POSITIONED IN THE FIELD TO AVOID CONFLICT WITH TREES, BUSHES, DRAINS, OTHER UTILITIES AND LANDSCAPING.
11. 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.
12. THE CABLE TRENCH SHALL BE BACKFILLED AND FIRMLY COMPACTED BEFORE ANY LIGHT STANDARD IS ERECTED.
13. 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.
14. COORDINATE WITH TRAFFIC SIGNAL PLANS FOR EXACT LOCATIONS OF COMBINATION POLES. COMBINATION POLES, MAST ARM, LUMINAIRE, AND WIRING FOR THE COMBINATION LIGHTING WILL BE PAID FOR UNDER TRAFFIC SIGNAL PAY ITEMS.
15. OFFSET CALL-OFFS FOR TEMPORARY LIGHT POLES ARE FROM THE CENTER OF POLES TO PROPOSED BASELINE/PGL. OFFSETS CALL-OFFS FOR PROPOSED LIGHT POLES ARE FROM THE CENTER OF POLES TO PROPOSED EDGE OF PAVEMENT (E.O.P.).

DATE	BY	SURVEYED	PLOTTED	TEMPLATE	AREAS CHECKED
FINAL SURVEY NO.	NOTE BOOK	AREAS CHECKED			

DATE	BY	SURVEYED	PLOTTED	TEMPLATE	AREAS CHECKED
ORIGINAL SURVEY NO.	NOTE BOOK	AREAS CHECKED			

LIGHTING SCHEDULE OF QUANTITIES

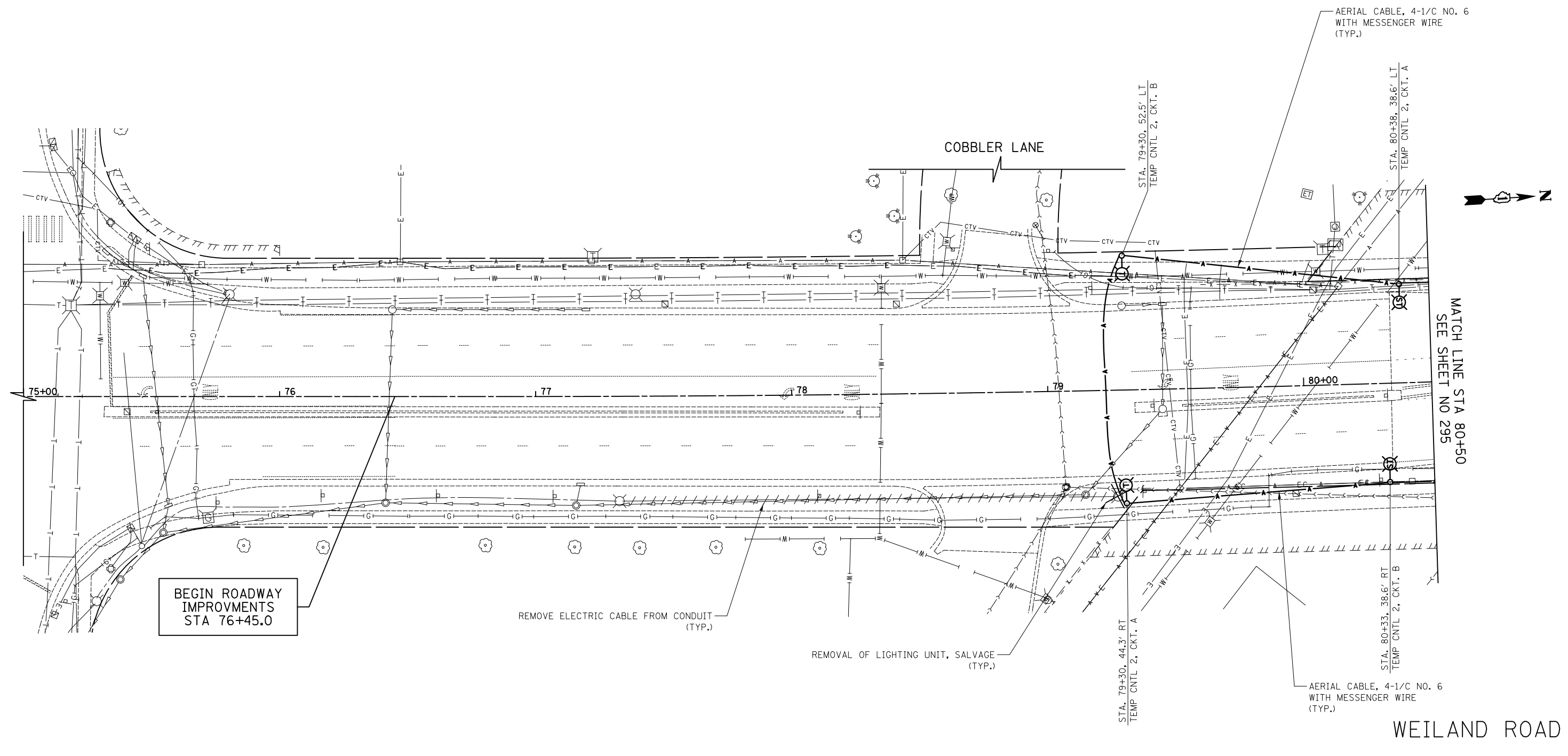
CODED PAY ITEM NO.	ITEM	UNIT	TOTAL QUANTITY
80400100	ELECTRIC SERVICE INSTALLATION	EACH	1
80400200	ELECTRIC UTILITY SERVICE CONNECTION	L SUM	1
81028210	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	1650
81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	80
81603100	UNIT DUCT, 600V, 4-1C NO.6, 1/C NO.6 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE	FOOT	10966
81702400	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 2	FOOT	200
81702450	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 10	FOOT	75
81800415	AERIAL CABLE, 4-1/C NO. 6 WITH MESSENGER WIRE	FOOT	8145
82500350	LIGHTING CONTROLLER, BASE MOUNTED, 240VOLT, 100 AMP	EACH	1
83062370	LIGHT POLE, WEATHERING STEEL, 35 FT. M.H., 6 FT. MAST ARM	EACH	49
83600200	LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	50
83600300	LIGHT POLE FOUNDATION, 30" DIAMETER	FOOT	370
84100110	REMOVAL OF TEMPORARY LIGHTING UNIT	EACH	58
84200500	REMOVAL OF LIGHTING UNIT, SALVAGE	EACH	43
84200804	REMOVAL OF POLE FOUNDATION	EACH	43
84500120	REMOVAL OF ELECTRIC SERVICE INSTALLATION	EACH	4
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	19638
X0323003	TEMPORARY ELECTRIC SERVICE INSTALLATION	EACH	1
X0324637	BASE COVER, LIGHT POLE	EACH	51
X0327236	TEMPORARY WOOD POLE, 50 FT., CLASS 4	EACH	5
X0327350	TEMPORARY WOOD POLE, 50 FT., CLASS 4, 15 FT. MAST ARM	EACH	45
X1400202	LUMINAIRE (SPECIAL)	EACH	1
X8210005	TEMPORARY LUMINAIRE, HIGH PRESSURE SODIUM VAPOR, HORIZONTAL MOUNT, 250 WATT	EACH	47
X8250060	TEMPORARY LIGHTING CONTROLLER	EACH	1
X8300001	LIGHT POLE, SPECIAL	EACH	2
X8360215	LIGHT POLE FOUNDATION, 24" DIAMETER, OFFSET	FOOT	60
X8360315	LIGHT POLE FOUNDATION, 30" DIAMETER, OFFSET	FOOT	168
X8380084	BREAKAWAY DEVICE, COUPLING	EACH	51
X8772115	TEMPORARY MAST ARM, ALUMINUM, 15FT	EACH	2
Z0033028	MAINTENANCE OF LIGHTING SYSTEM	CAL MO	8
XX008068	LUMINAIRE INSTALLATION, TYPE 1	EACH	62
XX009135	LIGHT POLE, SPECIAL, TYPE 2	EACH	10
	TEMPORARY LUMINAIRE, HIGH PRESSURE SODIUM VAPOR, HORIZONTAL MOUNT, 100 WATT	EACH	8
	TEMPORARY WOOD POLE, 25 FT., CLASS 4, 3 FT. MAST ARM	EACH	8
	BASE COVER, LIGHT POLE, TYPE 2	EACH	10
	BREAKAWAY DEVICE, COUPLING, TYPE 2	EACH	10

DATE	BY
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

DATE	BY
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	CHECKED		



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

DESIGNED - SJC	REVISED -
DRAWN - SJC	REVISED -
CHECKED - DNM	REVISED -
DATE - 6/10/2019	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**



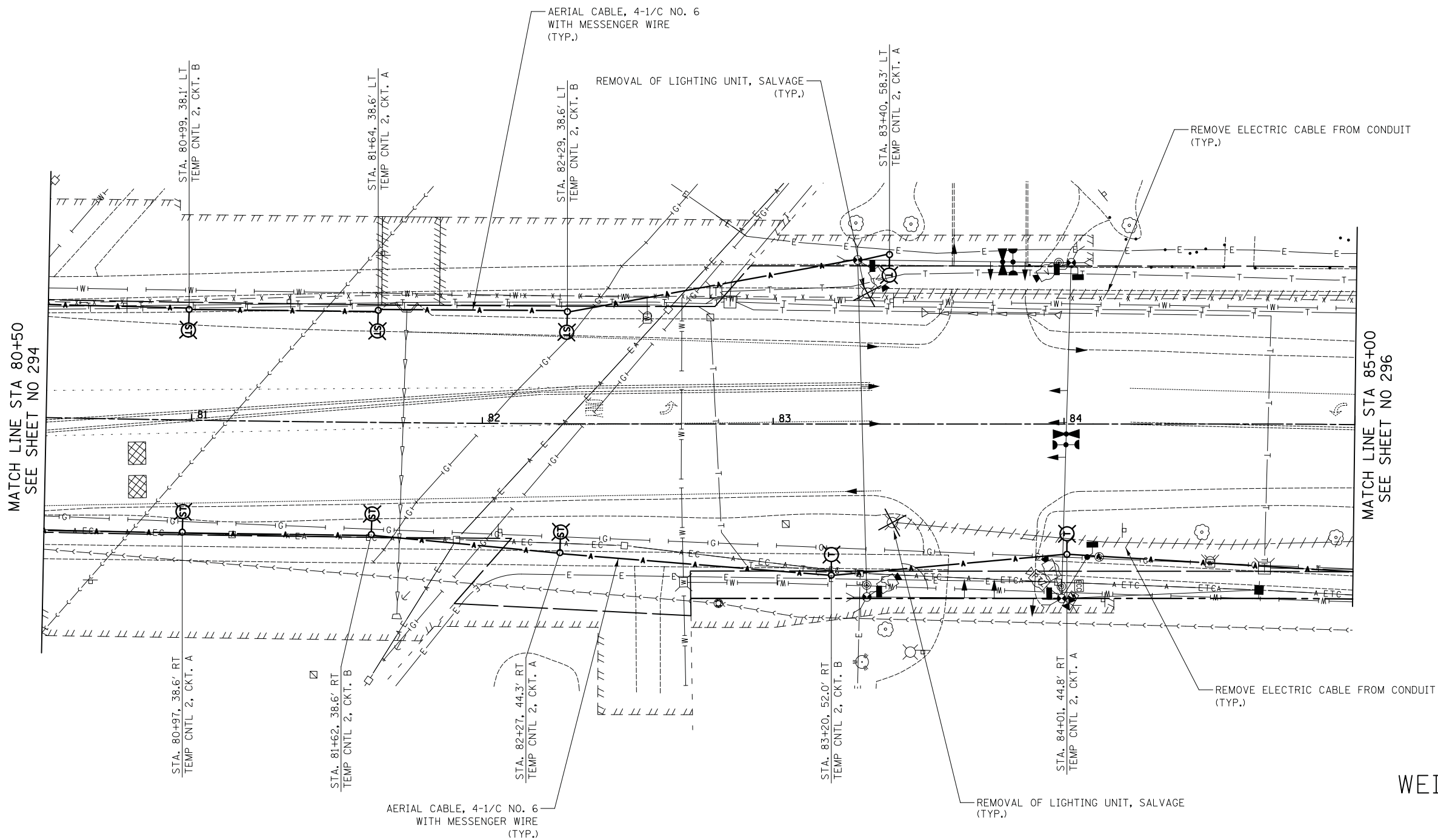
TEMPORARY LIGHTING PLAN

SHEET NO. 1 OF 14 SHEETS STA. 75+20.6 TO STA. 80+50.0

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2665	18-00158-13-WR	LAKE	623	294
CONTRACT NO. 61F25				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

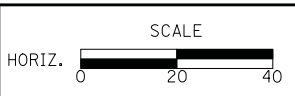


WEILAND ROAD

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

DESIGNED - SJC	REVISED -
DRAWN - SJC	REVISED -
CHECKED - DNM	REVISED -
DATE - 6/10/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

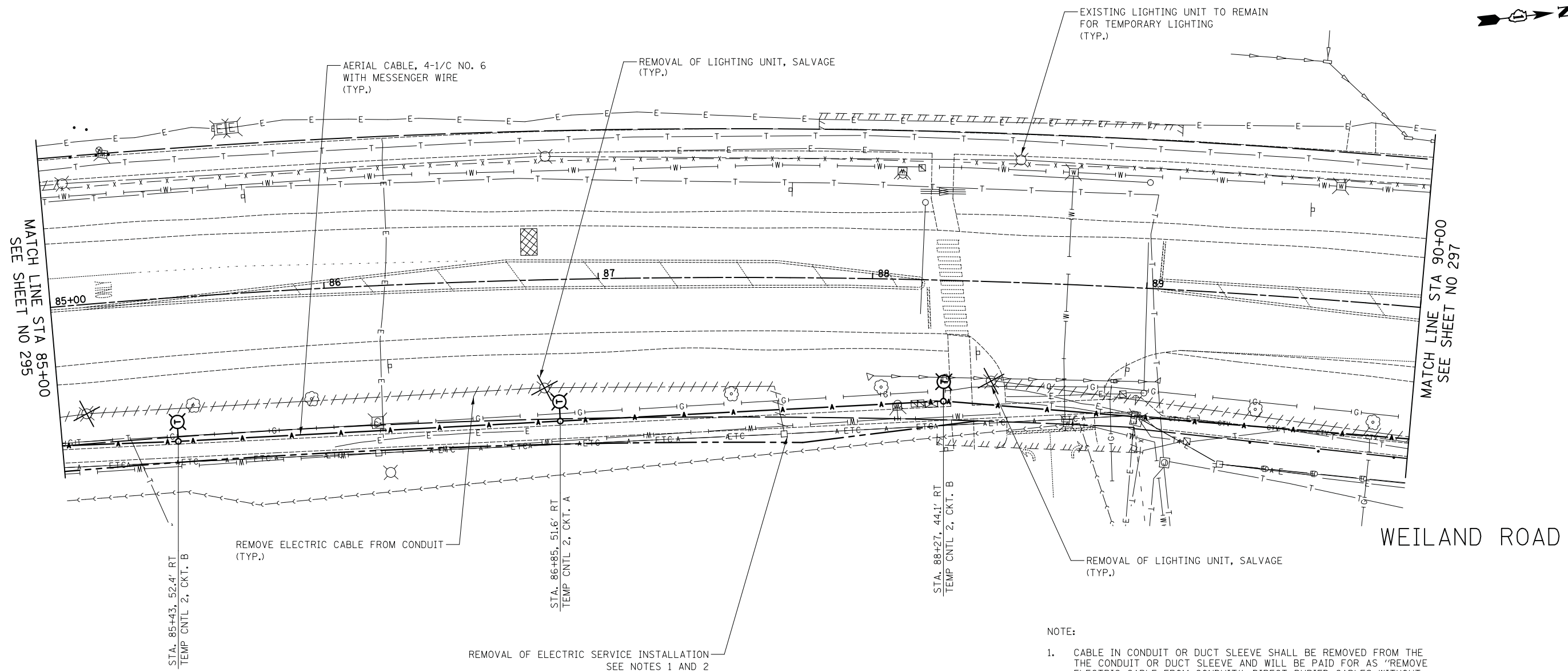


TEMPORARY LIGHTING PLAN
 SHEET NO. 2 OF 14 SHEETS STA. 80+50.0 TO STA. 85+00.0

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2665	18-00158-13-WR	LAKE	623	295
CONTRACT NO. 61F25				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

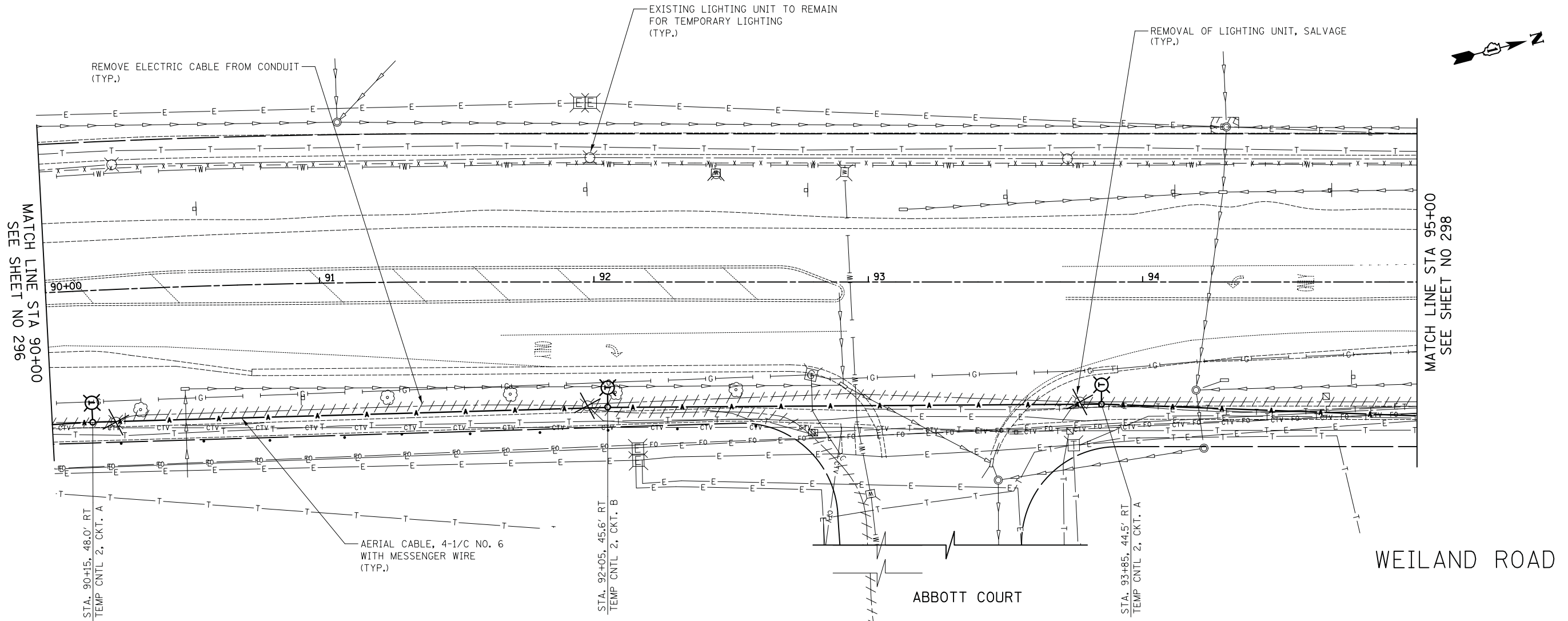


NOTE:

1. CABLE IN CONDUIT OR DUCT SLEEVE SHALL BE REMOVED FROM THE THE CONDUIT OR DUCT SLEEVE AND WILL BE PAID FOR AS "REMOVE ELECTRIC CABLE FROM CONDUIT". DIRECT BURIED CABLES WITHOUT CONDUIT OR DUCT SLEEVE SHALL BE ABANDONED AND WILL NOT BE PAID FOR ABANDONING IT.
2. CONTRACTOR MUST VERIFY THE ABANDONED DIRECT BURIED CABLES ARE NOT ENERGIZED AFTER REMOVAL OF ELECTRIC SERVICE INSTALLATION.

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	



NOTE:

1. CABLE IN CONDUIT OR DUCT SLEEVE SHALL BE REMOVED FROM THE THE CONDUIT OR DUCT SLEEVE AND WILL BE PAID FOR AS "REMOVE ELECTRIC CABLE FROM CONDUIT". DIRECT BURIED CABLES WITHOUT CONDUIT OR DUCT SLEEVE SHALL BE ABANDONED AND WILL NOT BE PAID FOR ABANDONING IT.
2. CONTRACTOR MUST VERIFY THE ABANDONED DIRECT BURIED CABLES ARE NOT ENERGIZED AFTER REMOVAL OF ELECTRIC SERVICE INSTALLATION.

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

DESIGNED - SJC	REVISED -
DRAWN - SJC	REVISED -
CHECKED - DNM	REVISED -
DATE - 6/10/2019	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**



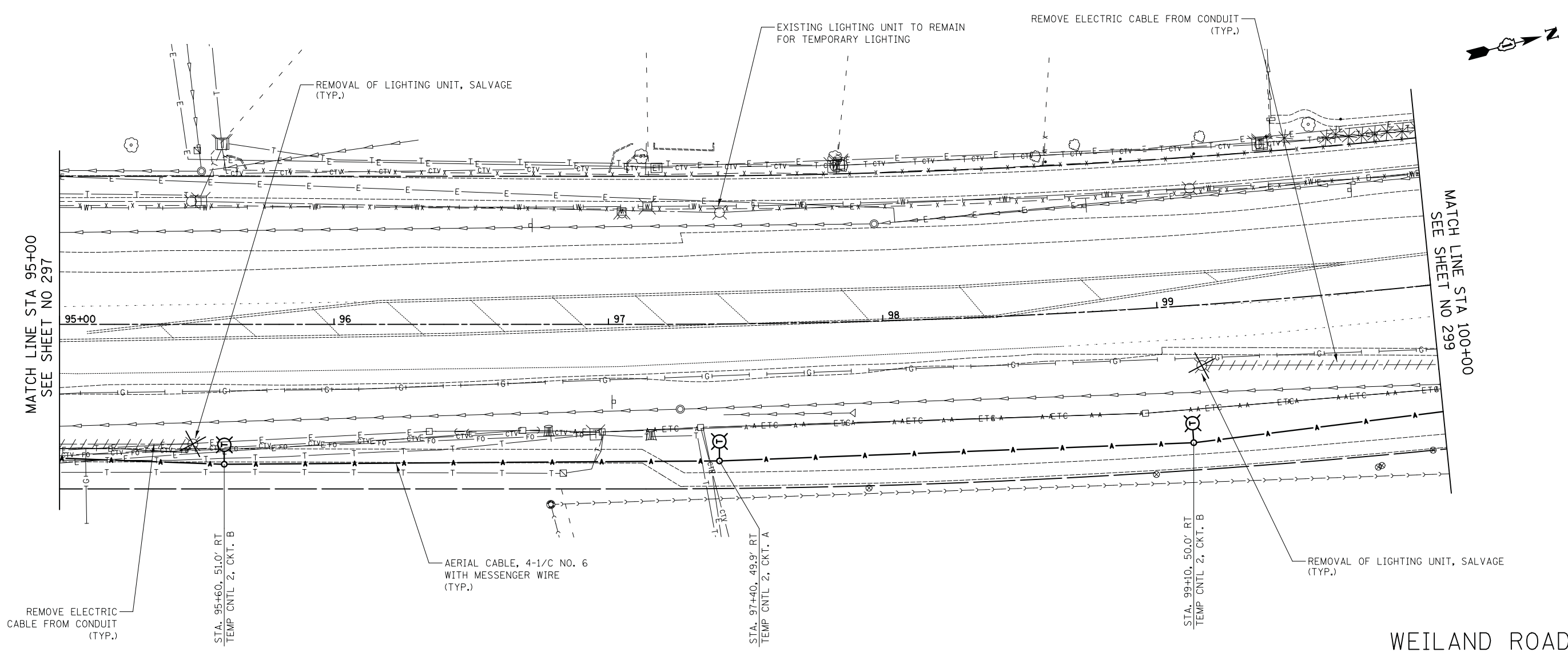
TEMPORARY LIGHTING PLAN

SHEET NO. 4 OF 14 SHEETS STA. 90+00.0 TO STA. 95+00.0

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2665	18-00158-13-WR	LAKE	623	297
				CONTRACT NO. 61F25
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	DATE
SURVEYED	BY
PLOTTED	
TEMPLATE	
AREAS CHECKED	

ORIGINAL SURVEY NO.	DATE
SURVEYED	BY
PLOTTED	
TEMPLATE	
AREAS CHECKED	



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

DESIGNED - SJC	REVISED -
DRAWN - SJC	REVISED -
CHECKED - DNM	REVISED -
DATE - 6/10/2019	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**



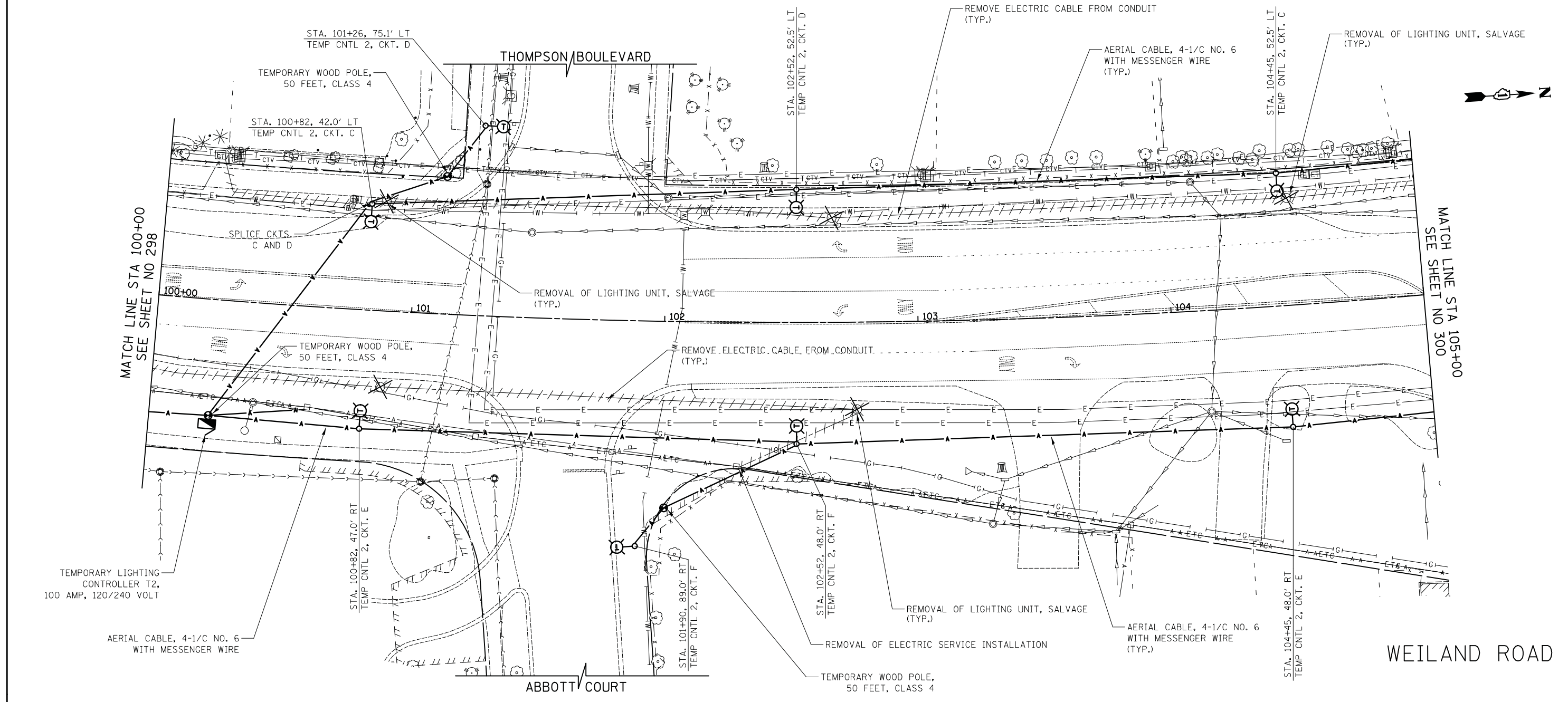
TEMPORARY LIGHTING PLAN

SHEET NO. 5 OF 14 SHEETS STA. 95+00.0 TO STA. 100+00.0

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2665	18-00158-13-WR	LAKE	623	298
CONTRACT NO. 61F25				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	



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

DESIGNED - SJC	REVISED -
DRAWN - SJC	REVISED -
CHECKED - DNM	REVISED -
DATE - 6/10/2019	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**



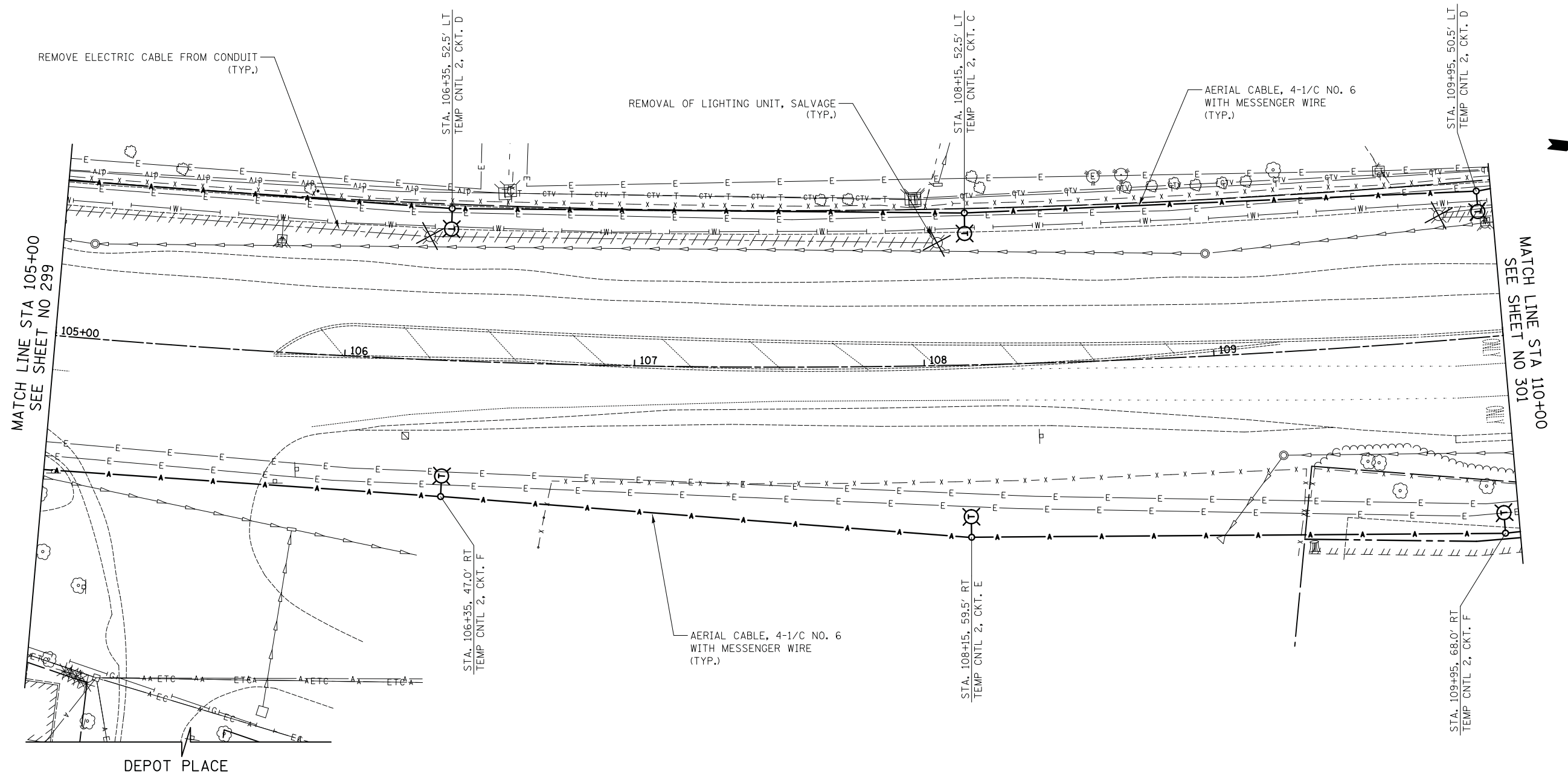
TEMPORARY LIGHTING PLAN

SHEET NO. 6 OF 14 SHEETS STA. 100+00.0 TO STA. 105+00.0

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2665	18-00158-13-WR	LAKE	623	299
CONTRACT NO. 61F25				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS CHECKED		
	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS CHECKED		
	AREAS CHECKED		

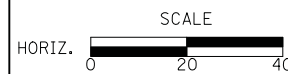


WEILAND ROAD

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

DESIGNED - SJC	REVISED -
DRAWN - SJC	REVISED -
CHECKED - DNM	REVISED -
DATE - 6/10/2019	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**



TEMPORARY LIGHTING PLAN

SHEET NO. 7 OF 14 SHEETS STA. 105+00.0 TO STA. 110+00.0

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2665	18-00158-13-WR	LAKE	623	300
CONTRACT NO. 61F25				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				