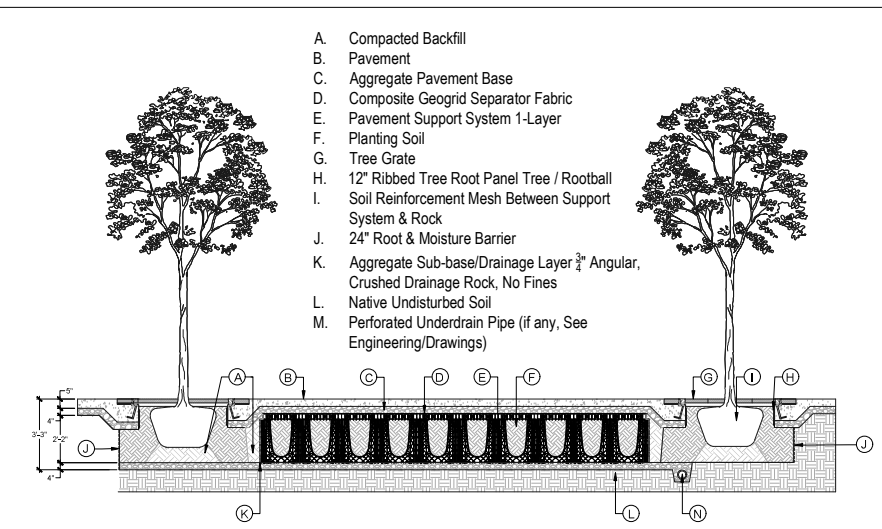
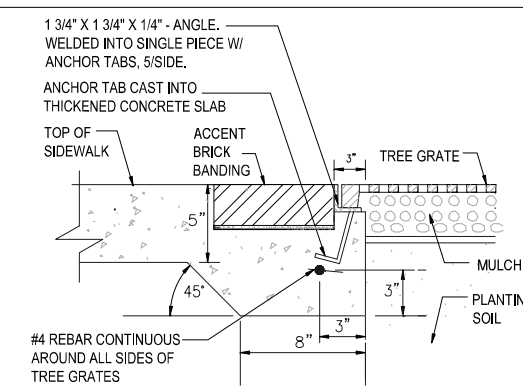


6 TYPICAL PAVING DETAIL AT - ENLARGED LAYOUT PLAN
L-5 SCALE = 1/8" = 1'-0"

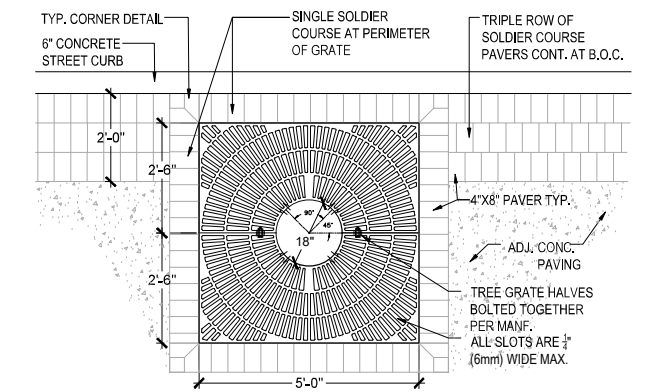


4 CONTINUOUS TREE PIT SYSTEM - SECTION
L-5 SCALE = 1/4" = 1'-0"

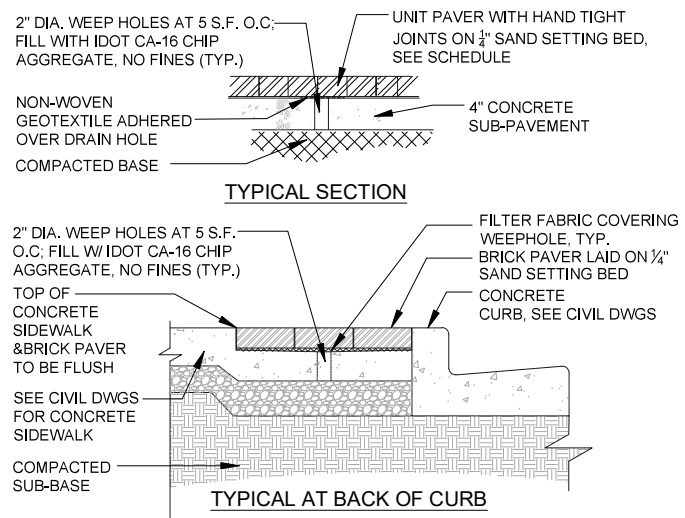
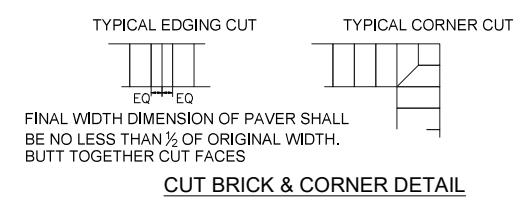


2 TREE GRATE FRAME EMBEDDED IN CONCRETE-ENLARGEMENT
L-5 SCALE = 1" = 1'-0"

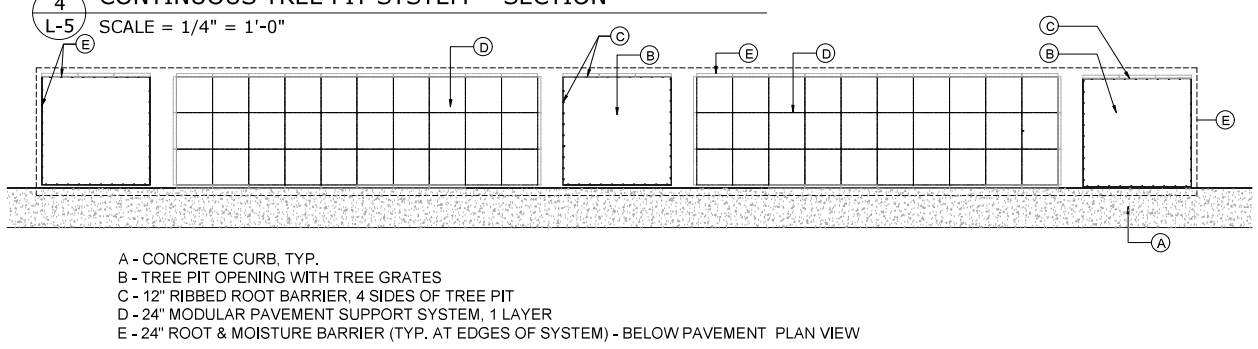
- TREE GRATE INSTALLATION NOTES:**
- Install the (2) tree grate halves securely within the frame during concrete pour, to prevent warping. Protect and cover grates during concrete pour.
 - Secure tree grates to frames with wires to be sturdy as one unit.
 - Check and adjust frame alignment and elevation if needed.
 - Install #3 rebar through lugs on frame and support as required.
 - Ensure there is a .1875" spacing between vertical faces of the frame and grate.
 - Pour and finish concrete. Do not remove tree grate or trim alignment wires until concrete has set up.
 - All installation to be per manufacturer's recommendations.



1 TYPICAL TREE GRATE & ACCENT PAVING DETAIL
L-5 SCALE = 1/2" = 1'-0"



5 ACCENT UNIT PAVING BAND AT BACK OF CURB
L-5 SCALE = 1" = 1'-0"



ITEM	2023											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC
WOODY PLANTINGS & ESTABLISHMENT WORK												
INSTALLATION												
PLANTING OF DECIDUOUS TREES, SHRUBS & PERENNIAL PLANTS												
PLANT CARE DURING THE PERIOD OF ESTABLISHMENT	PERIOD OF ESTABLISHMENT FOR WOODY PLANTS - CONTRACTOR SHALL PROPERLY CARE FOR ALL PLANTINGS TO MAINTAIN THE HEALTH & SATISFACTORY APPEARANCE OF THE PLANTINGS (INCLUDED IN COST OF EACH TREE, SHRUB & PERENNIAL)											
WATER WEEKLY: ALL TREES, SHRUBS & PERENNIALS EVERY WEEK OR AS DIRECTED BY THE ENGINEER												
INITIAL WATERING: INCLUDED IN THE COST OF TREE, SHRUB & PERENNIAL INSTALLATION (1x A MONTH), (AS PER SPECIAL PROVISION)	1	1	1	1	1	1	1	1	1	1	1	1
SUPPLEMENTAL WATERING: INCLUDED IN THE COST OF TREE, SHRUB & PERENNIAL INSTALLATION (3x A MONTH), (AS PER SPECIAL PROVISION)	1	2	1	2	1	2	1	2	1	2	1	1
PLANT CARE: COMPLETELY REMOVE WEEDS FROM ALL TREE MULCH RINGS, SHRUB & PERENNIAL MULCH BEDS EVERY TWO WEEKS OR AS DIRECTED BY THE ENGINEER (INCLUDED IN THE COST OF EACH TREE, SHRUB & PERENNIAL INSTALLATION) WEED WHACKING IS NOT ALLOWED.	1	1	1	1	1	1	1	1	1	1	1	1
AFTER COMPLETION OF THE PERIOD OF ESTABLISHMENT												
SUPPLEMENTAL WATERING: WATER ALL TREES, SHRUBS & PERENNIALS EVERY OTHER WEEK OR AS DIRECTED BY THE ENGINEER, (AS PER SPECIAL PROVISION)	1	1	1	1	1	1	1	1	1	1	1	1
WOODY PLANT CARE: TREE, SHRUB & PERENNIAL CARE INSPECT FOR DISEASES & PEST, WEED, REPLENISH MULCH, & PRUNE AS PER THE SPECIAL PROVISION AND AS DIRECTED BY THE ENGINEER	1	1	1	1	1	1	1	1	1	1	1	1

CITY OF EVANSTON
PUBLIC WORKS AGENCY
BUREAU OF CAPITAL
PLANNING AND ENGINEERING

USER NAME = NA
DESIGNED = CK
DRAWN = AD
CHECKED = JB
PLOT DATE = 11.16.2022
DATE = 11/22/22

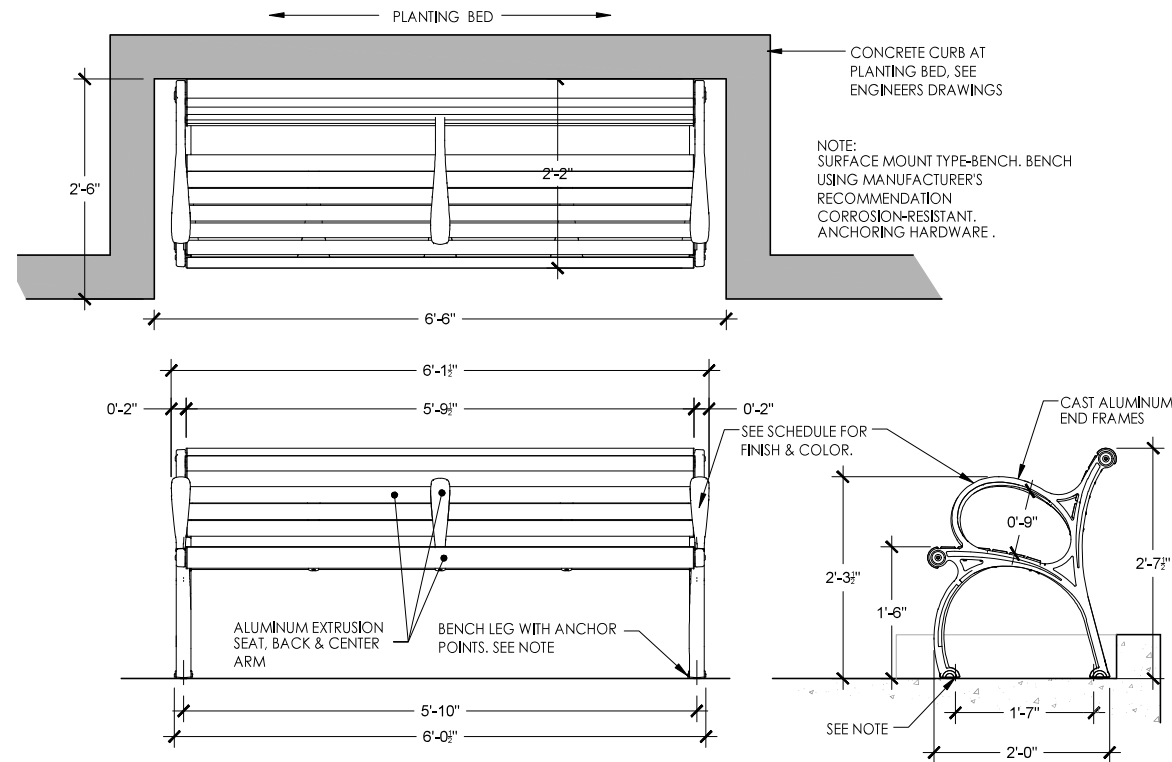
REVISED 02.14.2023
REVISED 02.13.2023
REVISED 12.19.2022
REVISED 11.22.2022
REVISED 11.16.2022

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

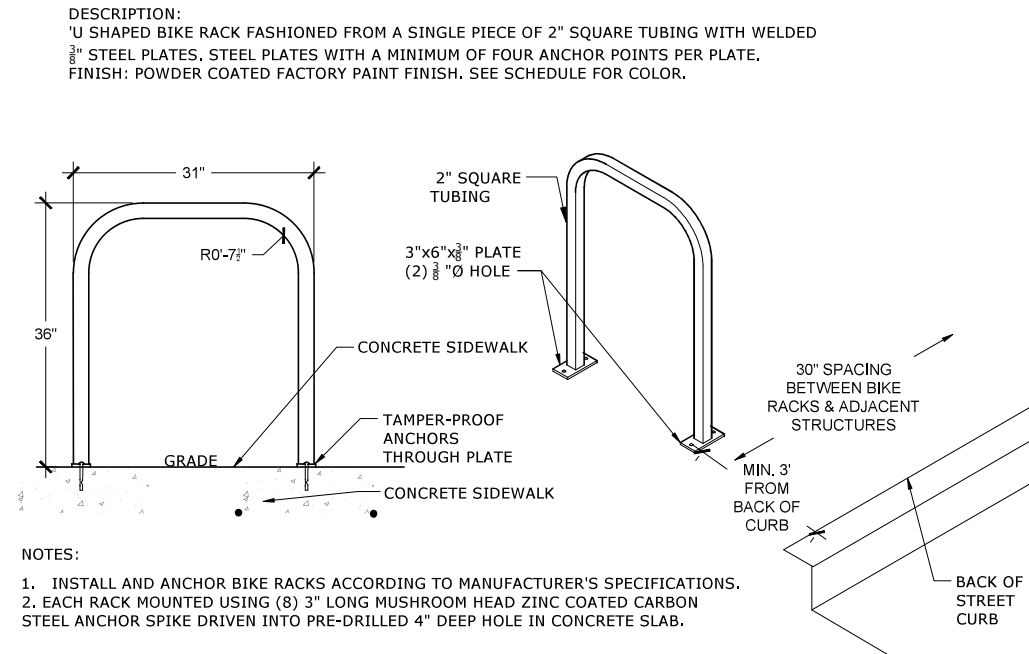
L-5 SITE DETAILS

SHEET OF SHEETS STA. TO STA.

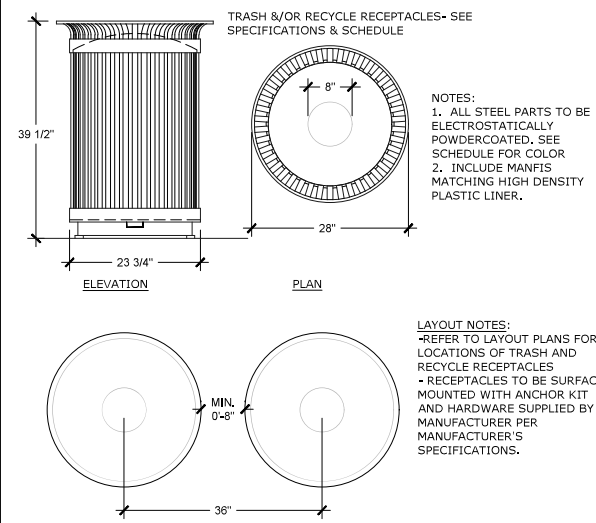
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1329	19-00283-00-PV	COOK	164	101
CONTRACT NO. 61H93			ILLINOIS FED. AID PROJECT	



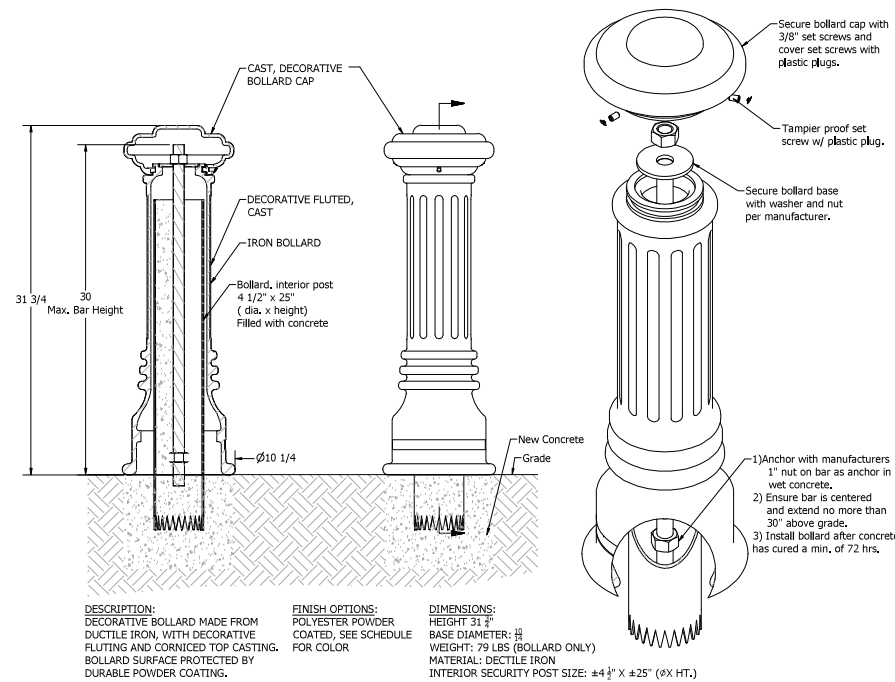
5 BENCH - TYPICAL DETAILS
L-6 SCALE = 1" = 1'-0"



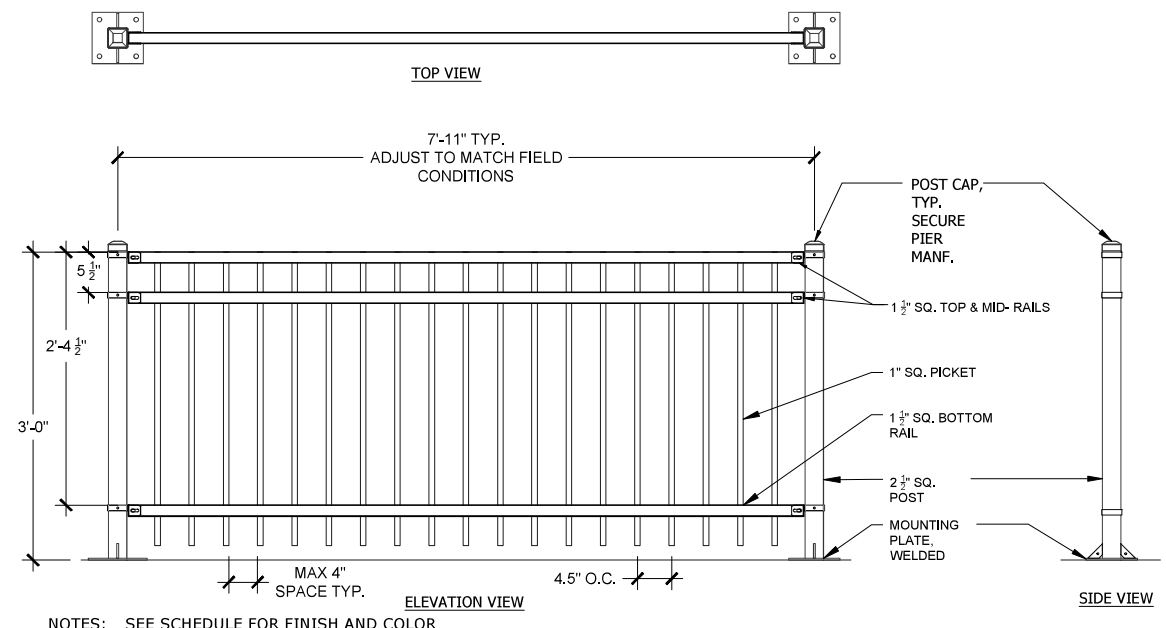
4 'U' SHAPED METAL BIKE RACK
L-6 SCALE = 1" = 1'-0"



3 TRASH & RECYCLE RECEPTACLE
L-6 N.T.S.

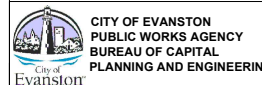


2 DECORATIVE METAL BOLLARD
L-6 N.T.S.



1 RAILING - TYPICAL DETAILS
L-6 SCALE = 1" = 1'-0"

- SEE LAYOUT DRAWINGS FOR LOCATIONS.
- BIKE RACK INSTALLATION NOTES:
- AVOID CORNERS, LOADING ZONES, HANDICAP ACCESS, CROSSWALKS, DOORWAYS, AND BUS STOPS. NOTIFY LANDSCAPE ARCH. OF CONFLICTS.
 - ALLOW A MINIMUM OF 4' CLEARANCE FOR FIRE HYDRANTS, HANDICAP RAMPS, DRIVEWAYS, AND LOADING ZONES.
 - ALLOW A MINIMUM OF 12' FROM INTERSECTIONS OR 6' FROM RAMPS.
 - ALLOW A MINIMUM OF 40' OF CLEARANCE FOR BUS STOPS.
 - PLACE A MINIMUM OF 2' FROM THE CONCRETE EDGE OF TREE CUTOUPS.
 - PLACE RACKS ONLY ON CITY, CTA, OR METRA PROPERTY.
 - LOCATE RACKS AT LEAST 6' FROM THE OUTSIDE EDGE OF EXISTING SIDEWALK CAFES.
 - DO NOT INSTALL RACKS ON HEATED SURFACES.
 - AVOID RECOGNIZED WATER VALVES, VENTILATION, GRATED SURFACES, OR OTHER SURFACE UTILITIES



CITY OF EVANSTON
PUBLIC WORKS AGENCY
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PLANNING AND ENGINEERING

USER NAME = NA	DESIGNED -- CK	REVISOR	02.14.2023
PLOT SCALE = 1" = 20'-0"	DRAWN -- AD	REVISOR	02.13.2023
PLOT DATE = 11.16.2022	CHECKED -- JB	REVISOR	12.19.2022
	DATE -- 11/22/22	REVISOR	11.22.2022
		REVISOR	11.16.2022

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

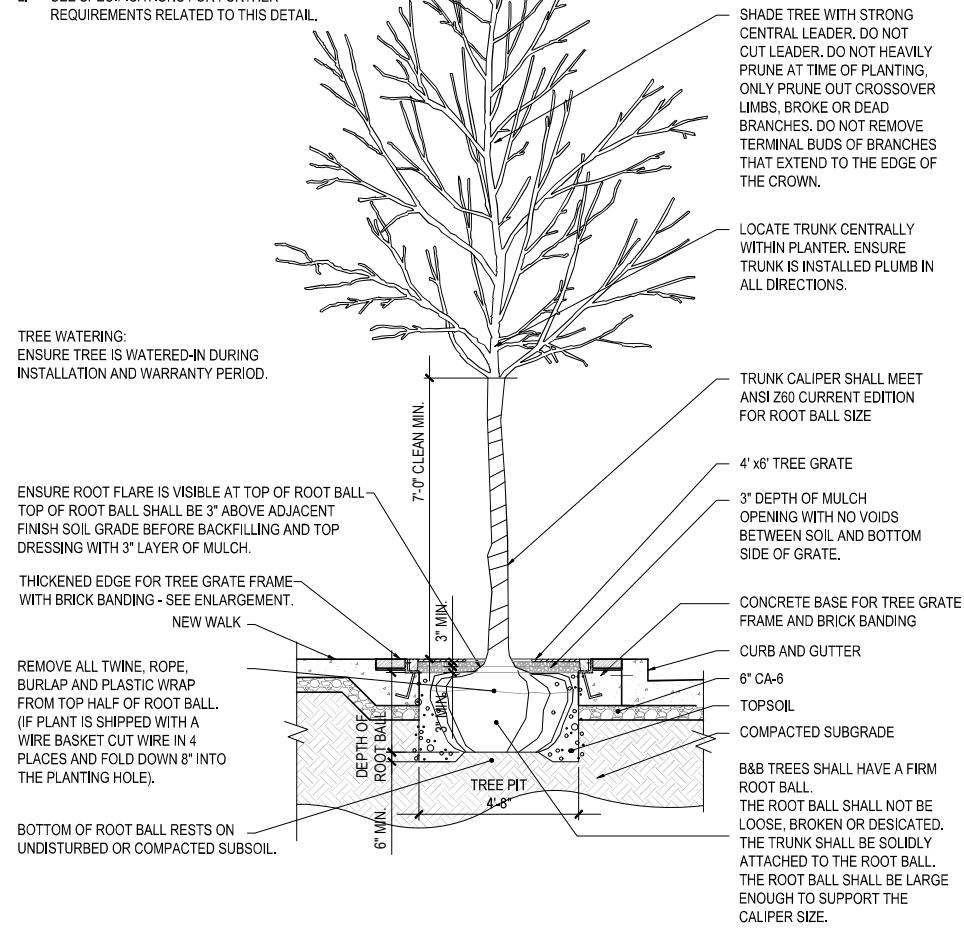
L-6 SITE FURNITURE DETAILS

SHEET OF SHEETS STA. TO STA.

F.A.U. RTE. 1329	SECTION 19-00283-00-PV	COUNTY COOK	TOTAL SHEETS 164	SHEET NO. 102
				CONTRACT NO. 61H93
				ILLINOIS FED. AID PROJECT

NOTES:

1. TREES SHALL BE OF QUALITY PRESCRIBED IN CROWN OBSERVATIONS AND ROOT OBSERVATIONS, DETAILS AND SPECIFICATIONS.
2. SEE SPECIFICATIONS FOR FURTHER REQUIREMENTS RELATED TO THIS DETAIL.



TREE WATERING:
ENSURE TREE IS WATERED-IN DURING INSTALLATION AND WARRANTY PERIOD.

ENSURE ROOT FLARE IS VISIBLE AT TOP OF ROOT BALL
TOP OF ROOT BALL SHALL BE 3" ABOVE ADJACENT
FINISH SOIL GRADE BEFORE BACKFILLING AND TOP
DRESSING WITH 3" LAYER OF MULCH.

THICKENED EDGE FOR TREE GRATE FRAME
WITH BRICK BANDING - SEE ENLARGEMENT.
NEW WALK

REMOVE ALL TWINE, ROPE,
BURLAP AND PLASTIC WRAP
FROM TOP HALF OF ROOT BALL.
(IF PLANT IS SHIPPED WITH A
WIRE BASKET CUT WIRE IN 4
PLACES AND FOLD DOWN 8" INTO
THE PLANTING HOLE).

BOTTOM OF ROOT BALL RESTS ON
UNDISTURBED OR COMPACTED SUBSOIL.

1 ORNAMENTAL TREE PLANTING DETAIL IN TREE GRATE - SECTION
L-8 N.T.S.

NOTES:

1. TREES SHALL BE OF QUALITY PRESCRIBED IN CROWN OBSERVATIONS AND ROOT OBSERVATIONS, DETAILS AND SPECIFICATIONS.
2. SEE SPECIFICATIONS FOR FURTHER REQUIREMENTS RELATED TO THIS DETAIL.

TREE WATERING:
ENSURE TREE IS WATERED-IN DURING
INSTALLATION AND WARRANTY PERIOD.

TRUNK CALIPER SHALL
MEET ANSI Z60 CURRENT
EDITION FOR ROOT BALL SIZE.

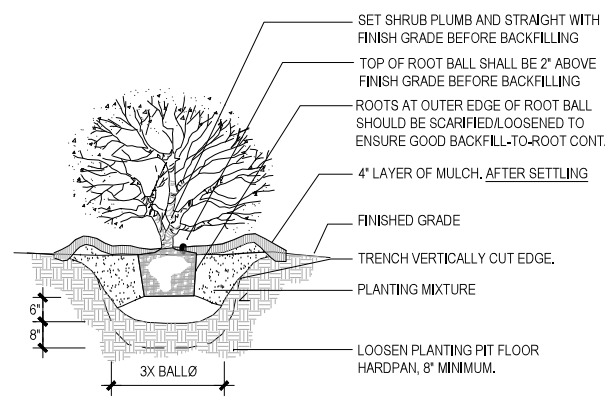
ENSURE ROOT FLARE IS VISIBLE AT TOP OF ROOT BALL
TOP OF ROOT BALL SHALL BE 3" ABOVE ADJACENT
FINISH SOIL GRADE.

ROUND-TOPPED SOIL BERM
4" HIGH X 8" WIDE
ABOVE ROOT BALL SURFACE
SHALL BE CONSTRUCTED AROUND
THE ROOT BALL. BERM SHALL
BEGIN AT ROOT BALL PERIPHERY.

REMOVE ALL TWINE, ROPE,
BURLAP AND PLASTIC WRAP
FROM TOP HALF OF ROOT BALL.
(IF PLANT IS SHIPPED WITH A
WIRE BASKET CUT WIRE IN 4
PLACES AND FOLD DOWN 8" INTO
THE PLANTING HOLE).

BOTTOM OF ROOT BALL RESTS ON
EXISTING OR RECOMPACTED SOIL.

2 ORNAMENTAL TREE PLANTING DETAIL IN PLANTING BED - SECTION
L-8 N.T.S.



SHADE TREE WITH STRONG
CENTRAL LEADER. DO NOT HEAVILY
PRUNE AT TIME OF PLANTING,
ONLY PRUNE OUT CROSSOVER
LIMBS, BROKE OR DEAD
BRANCHES. DO NOT REMOVE
TERMINAL BUDS OF BRANCHES
THAT EXTEND TO THE EDGE OF
THE CROWN.

ENSURE TRUNK IS INSTALLED
PLUMB IN ALL DIRECTIONS.

PRIOR TO MULCHING, LIGHTLY TAMP SOIL
AROUND THE ROOT BALL IN 6" LIFTS TO
BRACE TREE. DO NOT OVER COMPACT.
WHEN THE PLANTING HOLE HAS BEEN
BACKFILLED, POUR WATER AROUND THE
ROOT BALL TO SETTLE THE SOIL.

4" LAYER OF MULCH.
NO MORE THAN 1" OF MULCH ON
TOP OF ROOT BALL. (SEE
SPECIFICATIONS FOR MULCH).

MODIFIED SOIL. DEPTH VARIES.
(SEE SPECIFICATION)

B&B TREES SHALL HAVE A FIRM
ROOT BALL.
THE ROOT BALL SHALL NOT BE
LOOSE, BROKEN OR DESICATED.
THE TRUNK SHALL BE SOLIDLY
ATTACHED TO THE ROOT BALL.
THE ROOT BALL SHALL BE LARGE
ENOUGH TO SUPPORT THE
CALIPER SIZE.

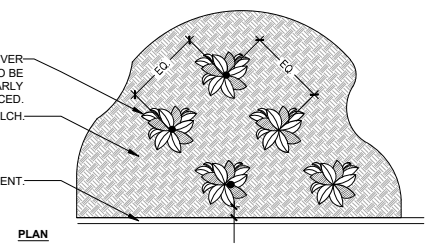
NOTES:

1. SEE PLANTING LEGEND FOR GROUNDCOVER SPECIES, SIZE, AND SPACING DIMENSION.
2. SMALL ROOTS (1/2" OR LESS) THAT GROW AROUND, UP, OR DOWN THE ROOT BALL PERIPHERY ARE CONSIDERED A NORMAL CONDITION IN CONTAINER PRODUCTION AND ARE ACCEPTABLE HOWEVER THEY SHOULD BE ELIMINATED AT THE TIME OF PLANTING, ROOTS ON THE PERIPHERY CAN BE REMOVED AT THE TIME OF PLANTING. (SEE ROOT BALL SHAVING CONTAINER DETAIL).
3. SETTLE SOIL AROUND ROOT BALL OF EACH GROUND COVER PRIOR TO MULCHING.

GROUND COVER
PLANTS TO BE
TRIANGULARLY
SPACED.

MULCH.

PAVEMENT.



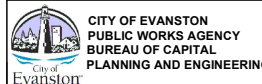
3 PERENNIALS & GROUND COVER PLANTING - PLAN & SECTION
L-8 N.T.S.

4 SHRUB PLANTING DETAIL - TYP. PLAN & SECTION
n.t.s.

REFER TO PLANTING SCHEULE

ROUGHLY TRIANGULATE SHRUBS IN MASS PLANTINGS
UNLESS OTHERWISE SHOWN OR AS LAID OUT BY
LANDSCAPE ARCHITECT.

FOR CONTAINER SHRUBS, REMOVE PLASTIC PLANTING
CONTAINER BEFORE PLANTING.
INSTALL PROMPTLY.
BEING CAREFUL TO KEEP ROOT SYSTEM INTACT.
DO NOT LET ROOTBALL DRY OUT.



USER NAME = NA	DESIGNED = CK	REVISED = 02.14.2023
PLOT SCALE = 1" = 20'-0"	DRAWN = AD	REVISED = 02.13.2023
PLOT DATE = 11.16.2022	CHECKED = JB	REVISED = 12.19.2022
	DATE = 11/22/22	REVISED = 11.22.2022
		REVISED = 11.16.2022

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

L-7 LANDSCAPE PLANTING DETAILS

F.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1329	19-00283-00-PV	COOK	164	103
CONTRACT NO. 61H93			ILLINOIS FED. AID PROJECT	

SHEET OF SHEETS STA. TO STA.

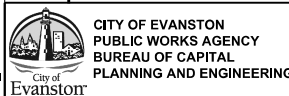
TRAFFIC SIGNAL LEGEND

(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 METERED	 	 	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	S	SP	FIBER OPTIC CABLE -NO. 62.5/125, MM12F -NO. 62.5/125, MM12F SM12F -NO. 62.5/125, MM12F SM24F	 	
WOOD POLE			INTERSECTION ITEM	I	IP	GROUND ROD -(C) CONTROLLER -(M) MAST ARM -(P) POST -(S) SERVICE	 	
GUY WIRE			REMOVE ITEM		R			
SIGNAL HEAD			RELOCATE ITEM		RL			
SIGNAL HEAD WITH BACKPLATE			ABANDON ITEM		A			
SIGNAL HEAD OPTICALLY PROGRAMMED			CONTROLLER CABINET AND FOUNDATION TO BE REMOVED		RCF			
FLASHER INSTALLATION -(FS) SOLAR POWERED	 	 	MAST ARM POLE AND FOUNDATION TO BE REMOVED		RMF			
PEDESTRIAN SIGNAL HEAD			SIGNAL POST AND FOUNDATION TO BE REMOVED		RPF			
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								

TS SHT NO. 1

MA_20201201-158 Patrick.Evanston Main ST PH II Design Transportation/CADD/Sheet/201-158-Evanston-sht_Detail-TS05a.dgn



USER NAME = DavIdL	DESIGNED - ACN	REVISED -	
	DRAWN - BAW	REVISED -	
PLOT SCALE = 40,0000' / in.	CHECKED - MD	REVISED -	
PLOT DATE = 12/29/2022	DATE - 10/6/22	REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT 1
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

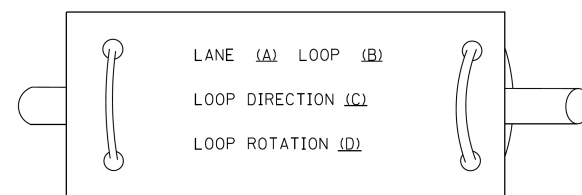
F.A.U. RTE. 1329	SECTION 19-00283-00-PV	COUNTY COOK	TOTAL SHEETS 164	SHEET NO. 104
CONTRACT NO. 61H93				
ILLINOIS FED. AID PROJECT				

SHEET OF SHEETS STA. TO STA.

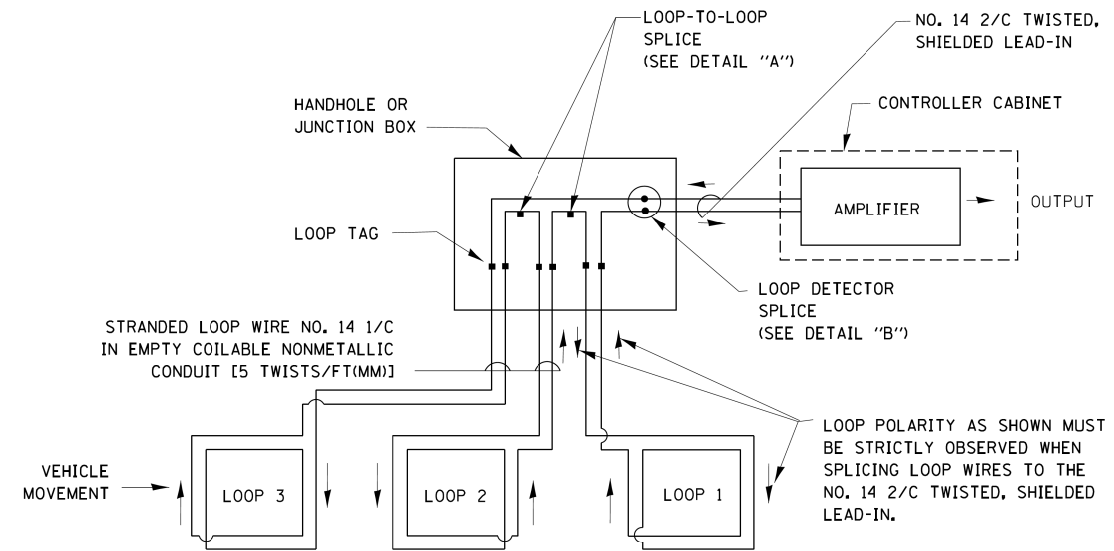
LOOP DETECTOR NOTES

1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NONMETALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). EMPTY COILABLE NONMETALLIC CONDUIT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.
2. THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.
3. EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.
4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
5. IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVESHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.
6. LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.
7. PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

LOOP LEAD-IN CABLE TAG

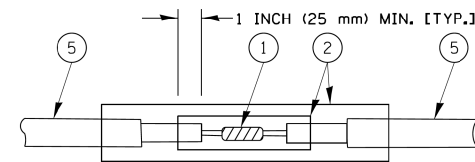


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

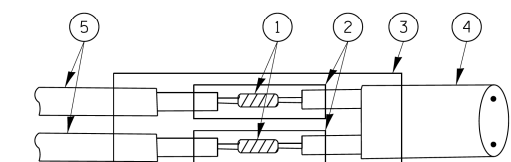


DETECTOR LOOP WIRING SCHEMATIC

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

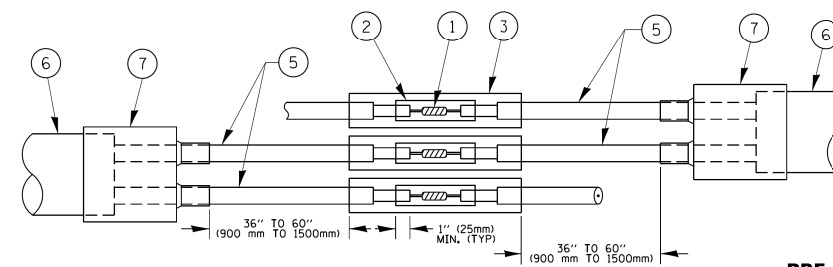


DETAIL "A"
LOOP-TO-LOOP SPLICE

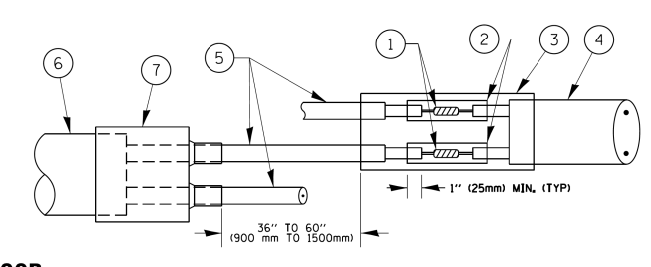


DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP



DETAIL "A"
LOOP-TO-LOOP SPLICE



DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

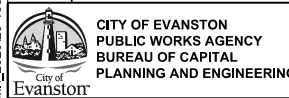
PRE-FORMED LOOP

LOOP DETECTOR SPLICE

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

TS SHT NO. 2

MA_20201201-158 Patrick.Evanston.Main.St.Plt.Ill.Design.Transportation\CADD\CADD Sheets\201-158-Evanston-sh1_Detail-TS05b.dgn



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	DATE - 10/6/22	REVISED -

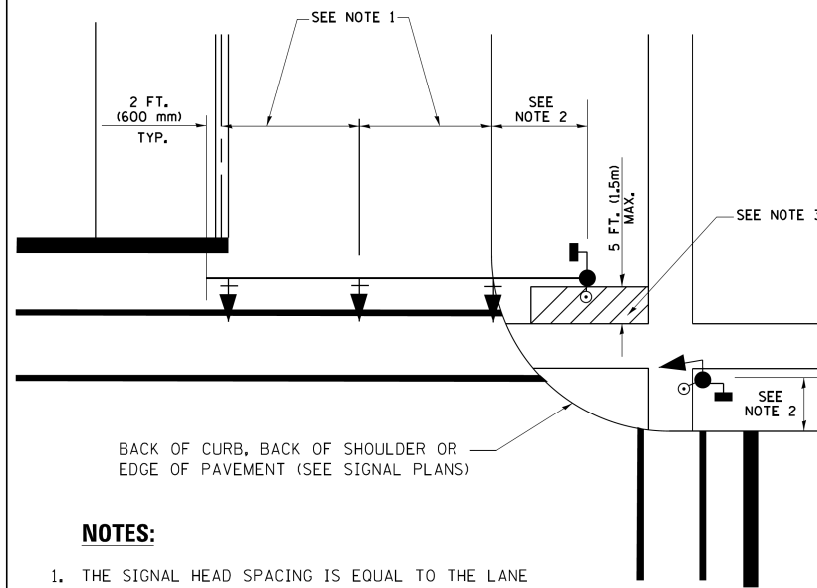
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 1
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SHEET OF SHEETS STA. TO STA.

F.A.U. RTE. 1329	SECTION 19-00283-00-PV	COUNTY COOK	TOTAL SHEETS 164	SHEET NO. 105
CONTRACT NO. 61H93			ILLINOIS FED. AID PROJECT	

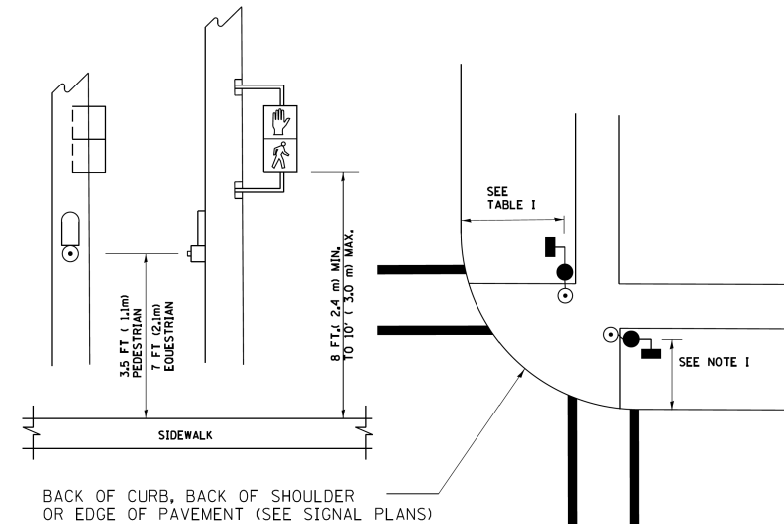
**TRAFFIC SIGNAL MAST ARM AND SIGNAL POST
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR
FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN
WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.**



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."

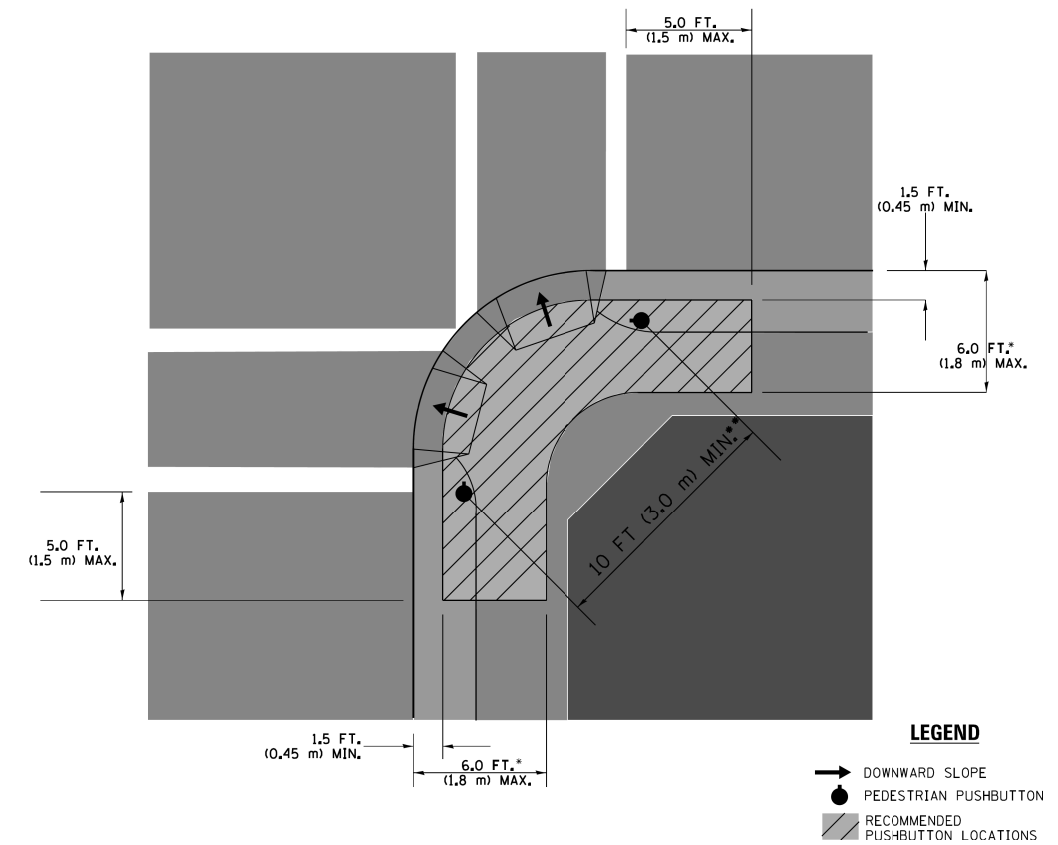
**PEDESTRIAN SIGNAL POST
AND
PEDESTRIAN PUSH BUTTON POST**



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) SEPERATION BETWEEN THE TWO PEDESTRIAN PUSHBUTTONS, THE PUSHBUTTONS MAY BE PLACED CLOSER TOGETHER OR ON THE SAME POLE.

NOTES:

1. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 8 FT (2.4 m) OR MORE THAN 10 FT (3 m) ABOVE SIDEWALK LEVEL, AND SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.
2. THE BOTTOM OF THE SIGNAL HOUSING (INCLUDING BRACKETS) OF A VEHICULAR SIGNAL FACE THAT IS NOT LOCATED OVER A HIGHWAY SHALL BE AT LEAST 8 FT (2.4 m) BUT NOT MORE THAN 19 FT (5.8 m) ABOVE THE SIDEWALK OR, IF THERE IS NO SIDEWALK, ABOVE THE PAYEMENT GRADE AT THE CENTER OF THE ROADWAY.
3. THE BOTTOM OF THE SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001, 877002, 877006, 877011 AND 877012 WITH A MINIMUM OF 16 FT (5.0 m) AND A MAXIMUM OF 18 FT. (5.5 m) FROM THE HIGHEST POINT OF PAVEMENT.
4. THE BOTTOM OF THE TEMPORARY SPAN WIRE MOUNTED SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARD 880001 WITH A MINIMUM OF 17 FT (5.18 m) FROM THE HIGHEST POINT OF PAVEMENT.
5. THE TOP OF THE SIGNAL HOUSING OF A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL NOT BE MORE THAN 25.6 FT (7.8 m) ABOVE THE PAVEMENT.

TRAFFIC SIGNAL EQUIPMENT OFFSET

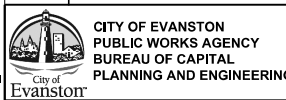
TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10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

NOTES:

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

TS SHT NO. 3

MA_20200201-158 Patrick.Evanston.Main.St.Ph.III.Design.Transportation.CADD.CADD.Sheets/2020-158-Evanston-sh1_Detail-TS05c.dgn



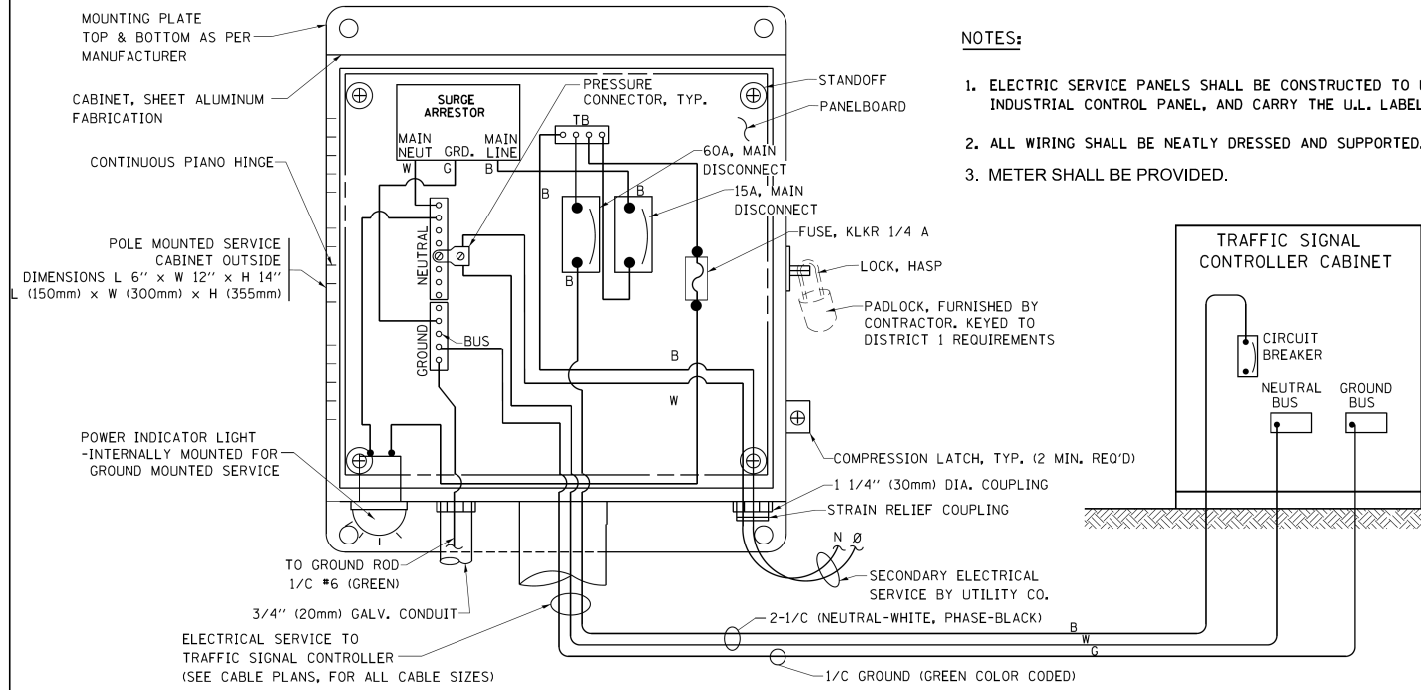
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	DATE - 10/6/22	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

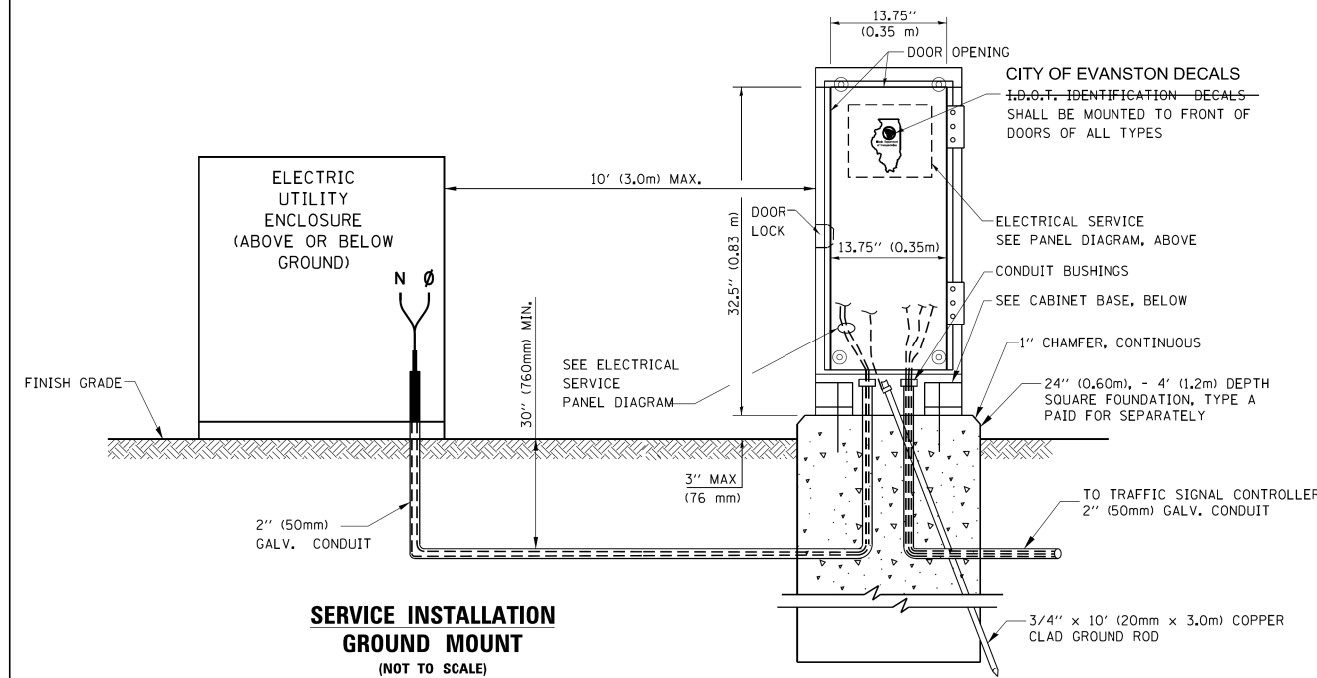
**DISTRICT 1
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

SHEET OF SHEETS STA. TO STA.

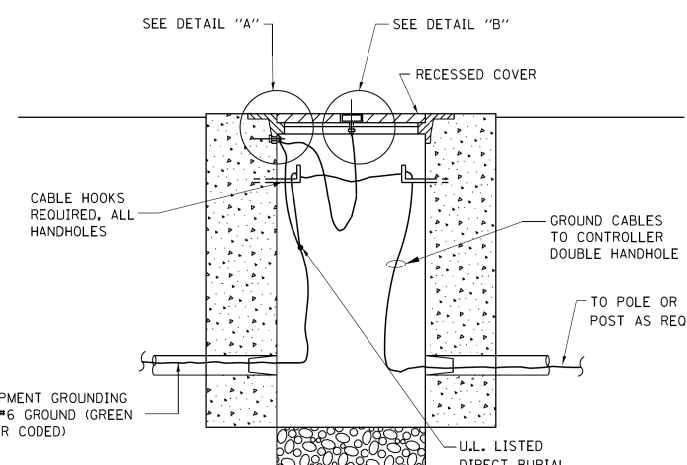
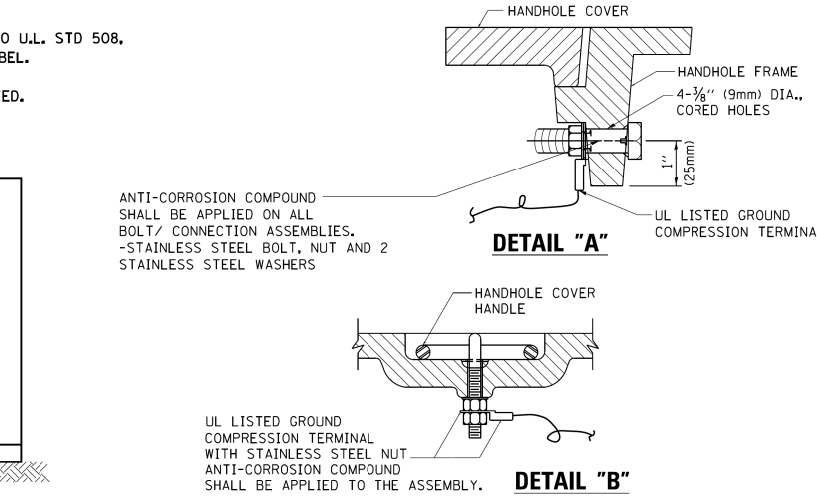
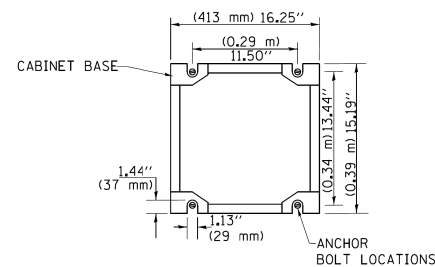
F.A.U. RTE. 1329	SECTION 19-00283-00-PV	COUNTY COOK	TOTAL SHEETS 164	SHEET NO. 106
CONTRACT NO. 61H93				
ILLINOIS FED. AID PROJECT				



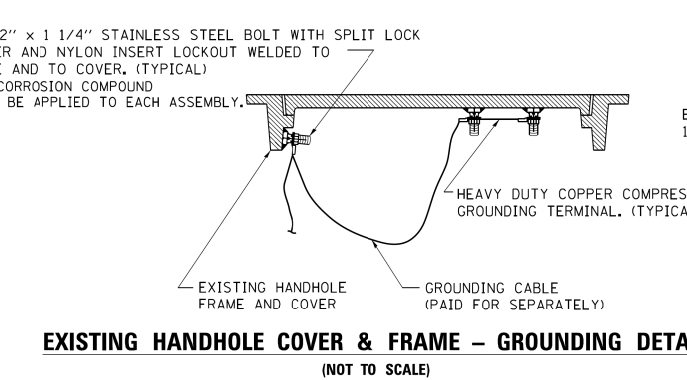
**ELECTRICAL SERVICE – PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)
SERVICE INSTALLATION POLE MOUNT (SHOWN)
(NOT TO SCALE)**



**CABINET – BASE BOLT PATTERN
(NOT TO SCALE)**

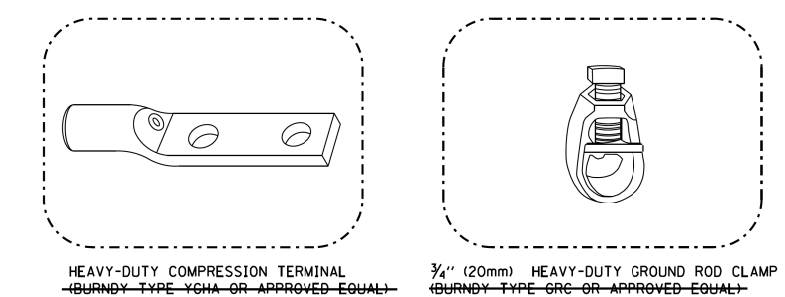


**HANDHOLE COVER & FRAME – GROUNDING DETAIL
(NOT TO SCALE)**

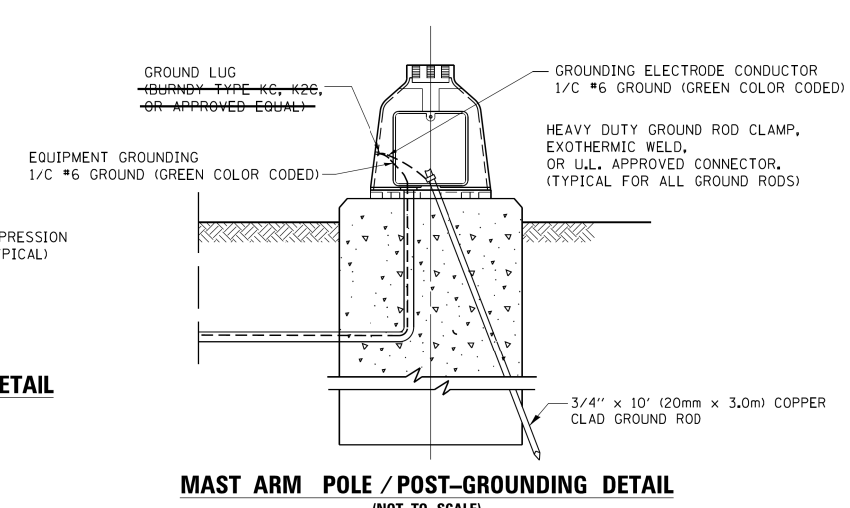


**EXISTING HANDHOLE COVER & FRAME – GROUNDING DETAIL
(NOT TO SCALE)**

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



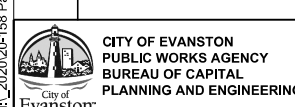
- NOTES:**
- ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
 - GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES. 6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES. 13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES. 5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.



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

TS SHT NO. 4

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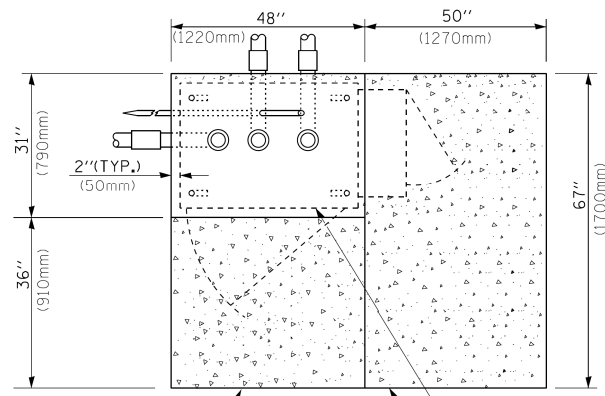


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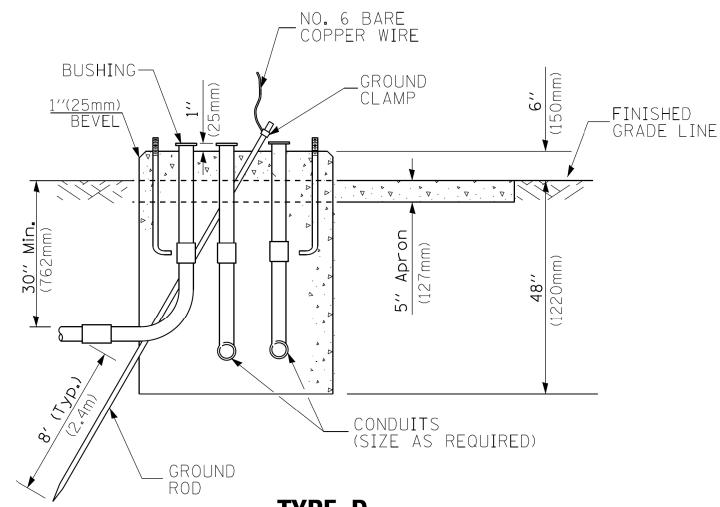
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT 1
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

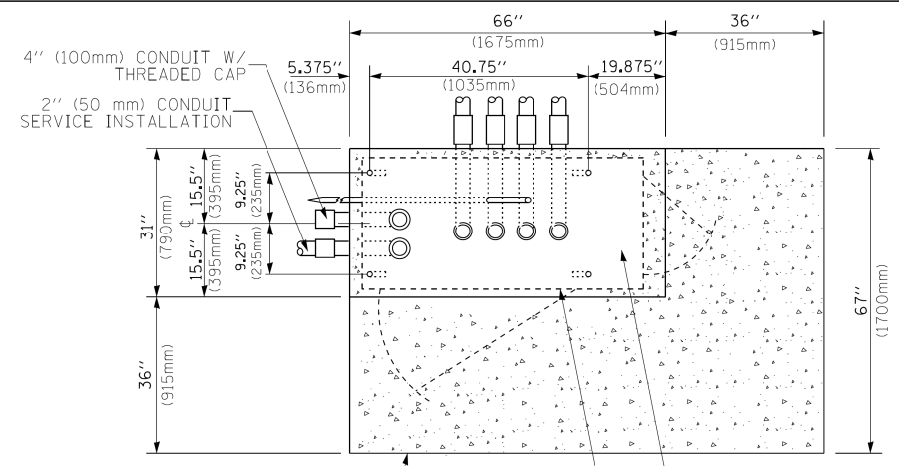
F.A.U. RTE. 1329	SECTION 19-00283-00-PV	COUNTY COOK	TOTAL SHEETS 164	SHEET NO. 107
SHEET OF SHEETS STA. TO STA.			CONTRACT NO. 61H93	
ILLINOIS FED. AID PROJECT				



TOP VIEW

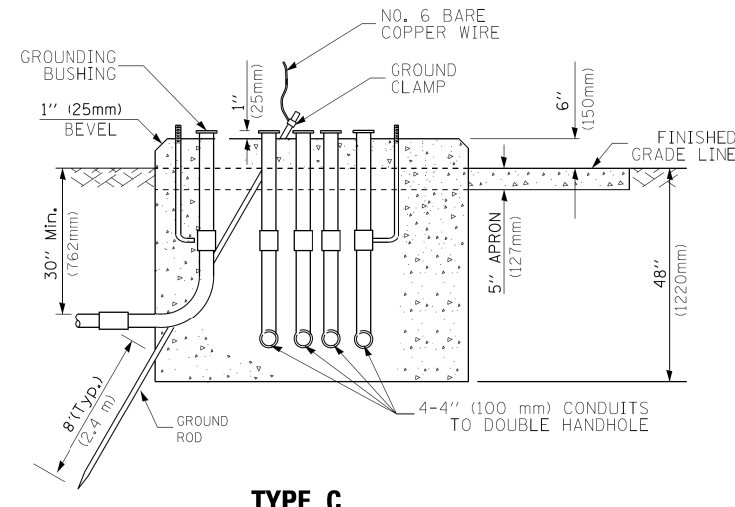


**TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET**

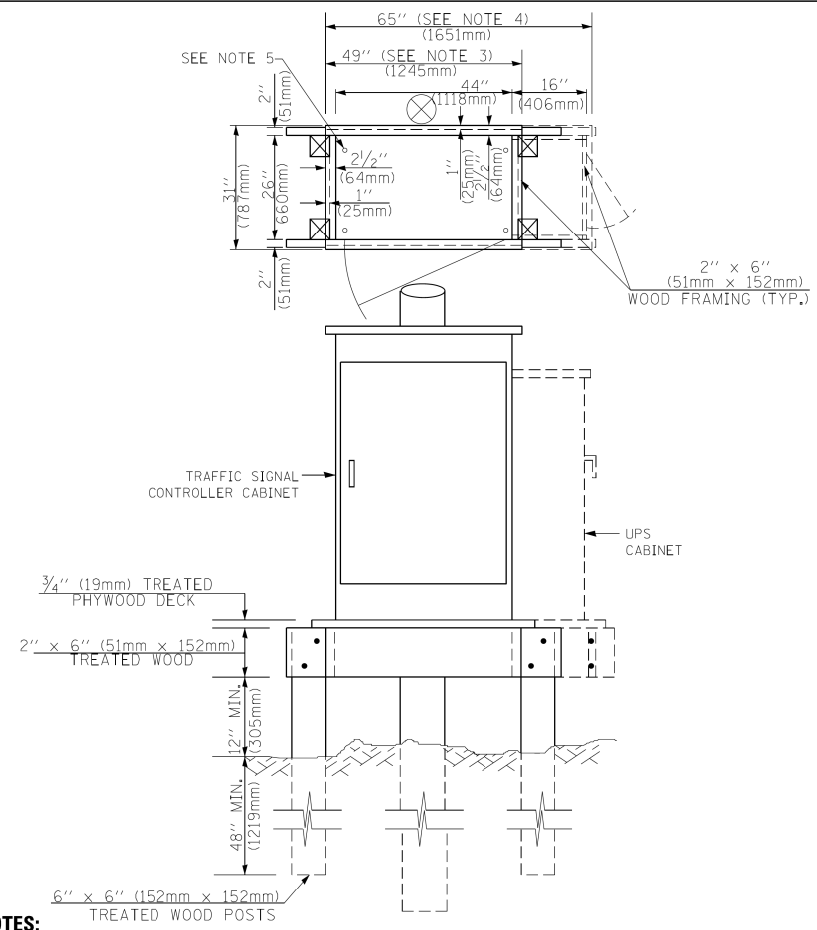


TOP VIEW

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



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



NOTES:

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

**TEMPORARY SIGNAL CONTROLLER
WOOD SUPPORT PLATFORM**

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

CABLE SLACK

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

VERTICAL CABLE LENGTH

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

DEPTH OF FOUNDATION

MAST ARM LENGTH	① FOUNDATION DEPTH	FOUNDATION DIAMETER	SPIRAL DIAMETER	QUANTITY OF REBARS	SIZE OF REBARS
Less than 30' (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 30' (9.1 m) and less than 40' (12.2 m)	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
	11'-0" (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 56' (16.8 m) and less than 65' (19.8 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 65' (19.8 m) and up to 75' (22.9 m)	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

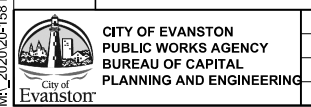
NOTES:

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

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

TS SHT NO. 5

MA_2020\20-158 Patrick, Evanston Main St PH II\Design\Transportation\CADD\CADD Sheets\20-158-Evanston-sht_Detail-TS05a.dgn

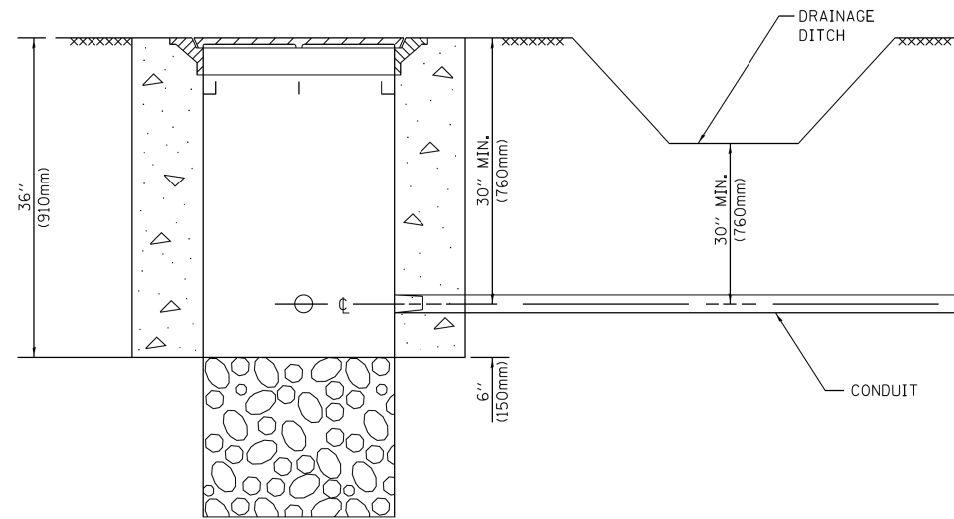


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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT 1
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

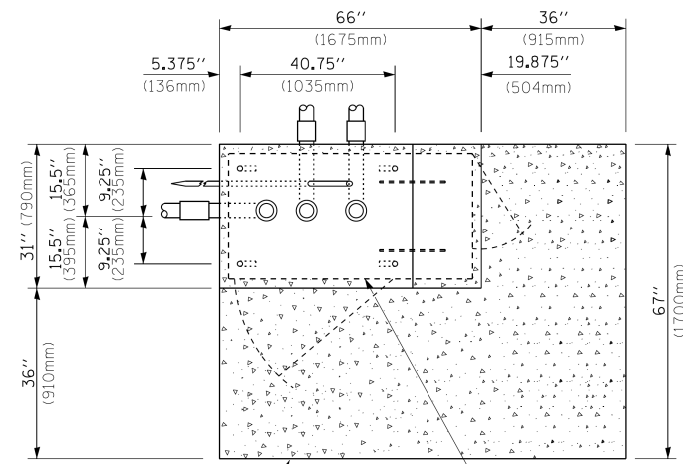
F.A.U. RTE. 1329	SECTION 19-00283-00-PV	COUNTY COOK	TOTAL SHEETS 164	SHEET NO. 108
SHEET OF SHEETS STA. TO STA.			CONTRACT NO. 61H93	
			ILLINOIS FED. AID PROJECT	



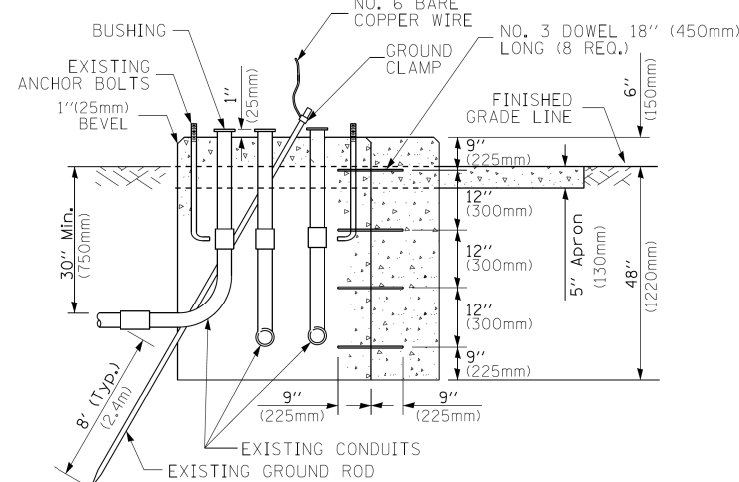
NOTES:

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

HANDHOLE WITH MINIMUM CONDUIT DEPTH
(NOT TO SCALE)



TOP VIEW
(NOT TO SCALE)

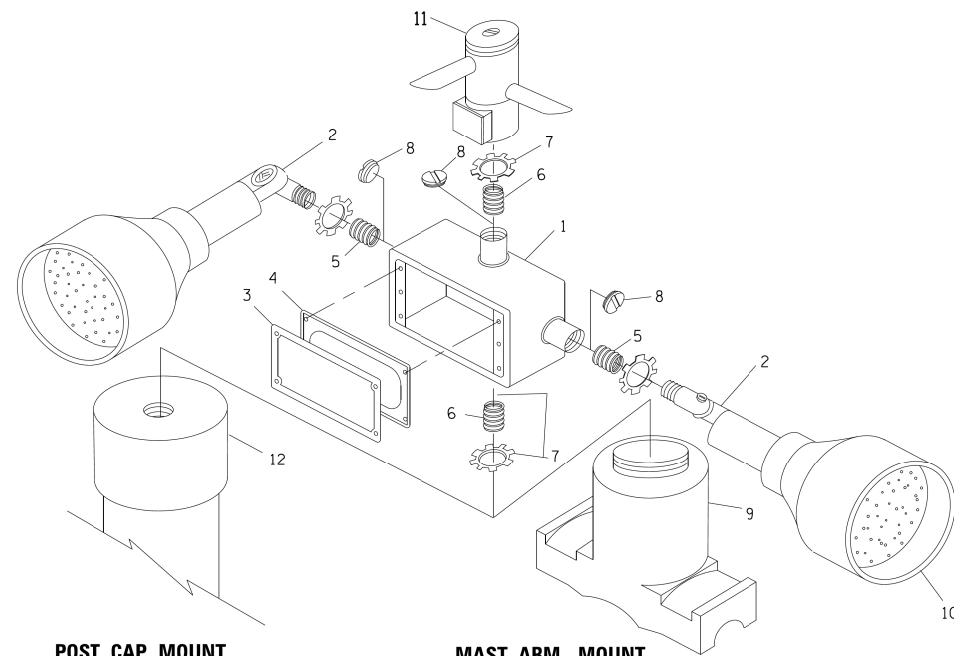


MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION
(NOT TO SCALE)

ITEM NO.	IDENTIFICATION
1	OUTLET BOX- GALV. 21 CU.IN. (0,000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	3/4" (19 mm) CLOSE NIPPLE
7	3/4" (19 mm) LOCKNUT
8	3/4" (19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	6 WATT PAR 38 LED FLOOD LAMP
11	DETECTOR UNIT
12	POST CAP [18 FT. (5.4 m) POST MIN.]

NOTES:

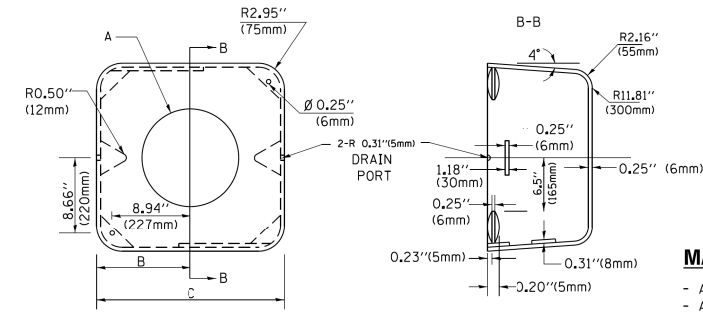
1. ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
2. ITEM #1 - 02/08DNEY FSX 1-50 OR EQUIVALENT
ITEM #2 - MULBERRY CON 0 SHADE LAMP SHIELD OR EQUIVALENT
ITEM #3 - "BAND IT" SADDLE BRACKET OR EQUIVALENT
3. WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED. THE DETECTION UNIT SHALL BE MOUNTED DIRECTLY ON TOP OF THE CAP BY DRILLING AND TAPPING A 3/4" (19 mm) HOLE WITH PIPE THREADS. THE POST CAP SHALL EITHER BE SCREWED TO THE TOP OF THE POST OR A MINIMUM OF 3 TIGHTENING SCREWS SHALL BE REQUIRED ON EACH CAP.



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

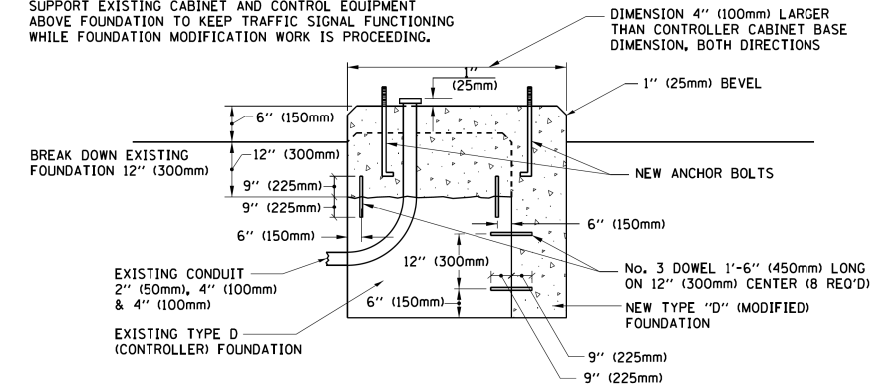
SHROUD

NOTES:

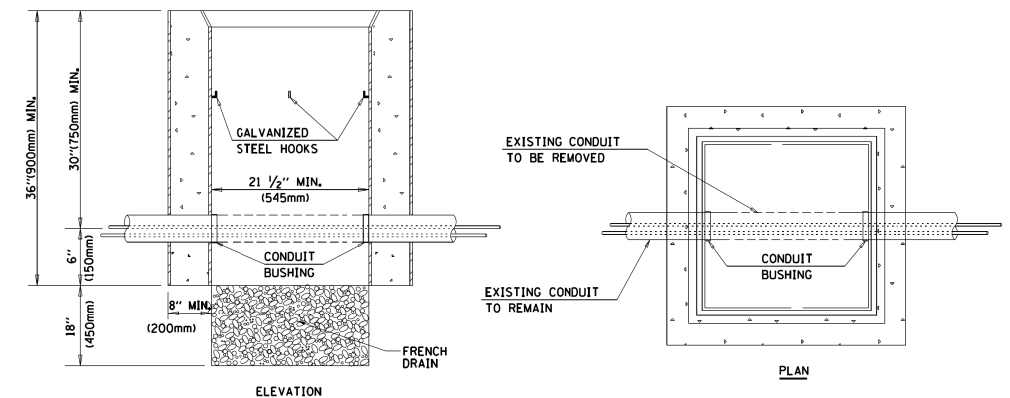
1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
2. THE SUPPLIER SHALL VERIFY THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.

NOTE:

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



MODIFY EXISTING TYPE "D" FOUNDATION



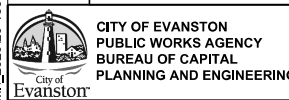
NOTES:

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

HANDHOLE TO INTERCEPT EXISTING CONDUIT

TS SHT NO. 6

MA_20201201-158 Patrick.Evanston.Main.St.PH.III.Design.Transportation.CADD.Sheets/20-158-Evanston-sh1_Detail-TS051.dgn



CITY OF EVANSTON PUBLIC WORKS AGENCY BUREAU OF CAPITAL PLANNING AND ENGINEERING	USER NAME = DavldL	DESIGNED - ACN	REVISED -
	PLOT SCALE = 40,0000' / in.	DRAWN - BAW	REVISED -
	PLOT DATE = 12/29/2022	CHECKED - MD	REVISED -
		DATE - 10/6/22	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

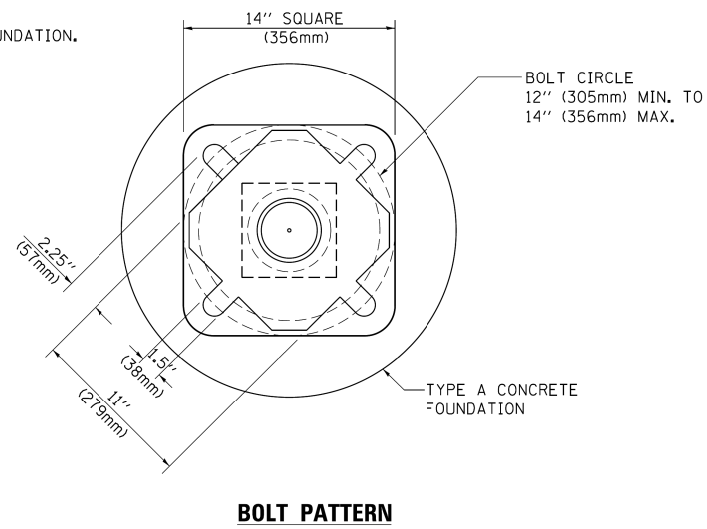
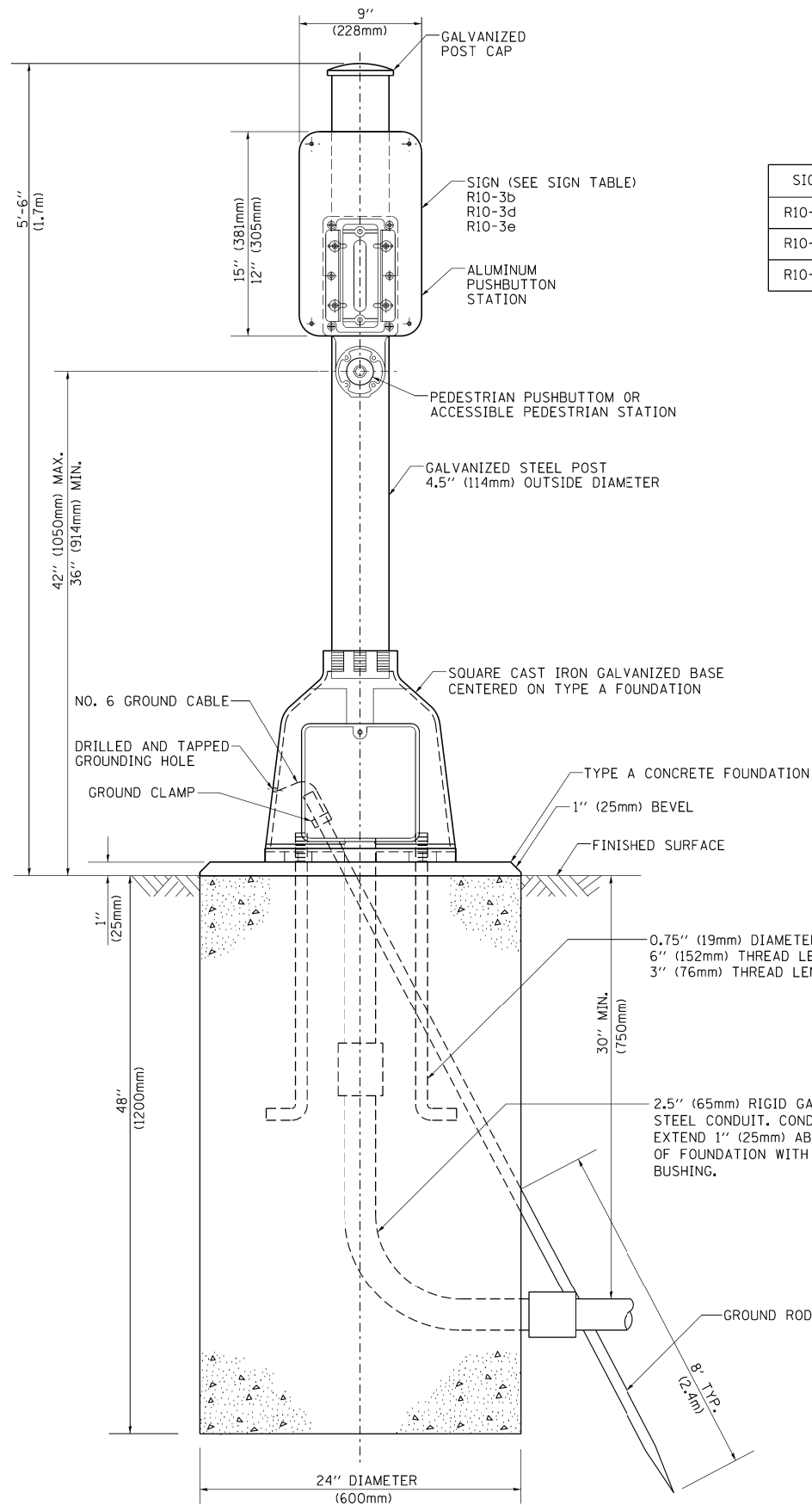
**DISTRICT 1
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

SHEET OF SHEETS STA. TO STA.

F.A.U. RTE. 1329	SECTION 19-00283-00-PV	COUNTY COOK	TOTAL SHEETS 164	SHEET NO. 109
CONTRACT NO. 61H93			ILLINOIS FED. AID PROJECT	

SIGN TABLE

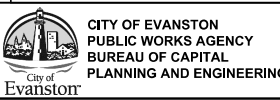
SIGN	DIMENSIONS
R10-3b	9" (228mm) X 12" (305mm)
R10-3d	9" (228mm) X 12" (305mm)
R10-3e	9" (228mm) X 15" (381mm)



PEDESTRIAN PUSH BUTTON POST, TYPE A

TS SHT NO. 7

MA_20201201-158 Patrick Evanson Main ST PH II Design Transportation/CADD Sheets/20-158-Evanson-sh1_Detail-TS05.dgn



USER NAME = DavldL	DESIGNED - ACN	REVISED -
PLOT SCALE = 40,0000 1/ in.	DRAWN - BAW	REVISED -
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	DATE - 10/6/22	REVISED -

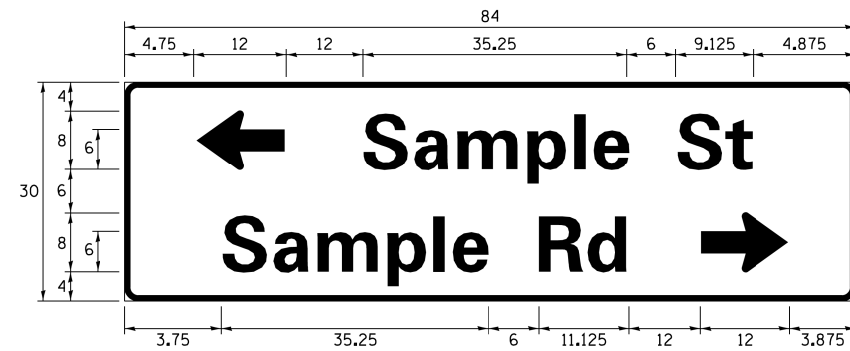
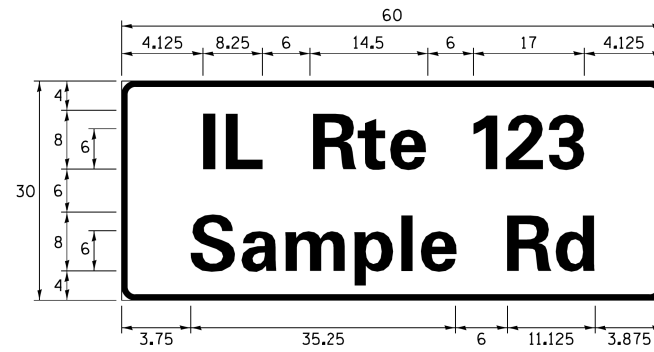
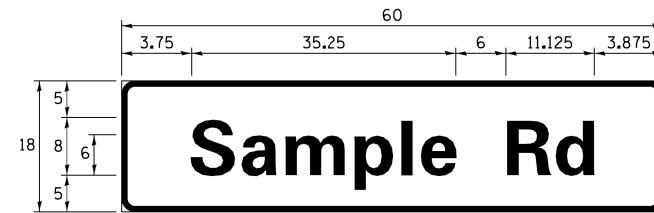
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT 1
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1329	19-00283-00-PV	COOK	164	110
CONTRACT NO. 61H93				
ILLINOIS FED. AID PROJECT				

SIGN PANEL – TYPE 1 OR TYPE 2



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

ALL DIMENSIONS ARE IN INCHES EXCEPT NOTED OTHERWISE

COMMON STREET NAME ABBREVIATIONS AND WIDTHS

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

GENERAL NOTES

- WHERE MAST ARM MOUNTED STREET NAME SIGNS ARE SPECIFIED, THE MAST ARM ASSEMBLY AND POLES SHALL BE DESIGNED TO SUPPORT THE LOADINGS CALLED FOR ON STANDARDS 877001, 877002, 877006, 877011 AND 877012, AS APPLICABLE, PLUS TWO (2) SIGN PANELS 2'-6" x 8'-0" MOUNTED AS SHOWN. THE DESIGN SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS" AS PUBLISHED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS FOR 80 M.P.H. WIND VELOCITY.
- ALL SIGNS SHALL CONSIST OF A WHITE LEGEND AND BORDER (TYPE ZZ SHEETING) ON A GREEN BACKGROUND (TYPE ZZ SHEETING)
- THE SIGN LENGTH SHALL BE IN 6-INCH INCREMENTS, BUT THE OVERALL LENGTH SHALL NOT EXCEED 8'-0". ALL BORDERS SHALL BE 3/4" WIDE. CORNER RADIUS SHALL BE 1-7/8". THE SPACING BETWEEN THE WORDS SHOULD BE 6", IF POSSIBLE, BUT MAY BE REDUCED TO 5" WHEN SPACING IS CRITICAL. A MINIMUM OF 2-1/2" SHALL BE INCLUDED BETWEEN THE WORD AND THE RIGHT AND LEFT EDGES OF THE SIGN.
- A PREFERRED METHOD FOR THE SIGN DESIGN IS TO USE SERIES "D" LETTER ON A ONE-LINE SIGN 18" IN HEIGHT AND A MAXIMUM OF 8'-0" IN WIDTH. IF SERIES "D" DOES NOT FIT ON A 8'-0" SIGN, THEN SERIES "C" SHOULD BE TRIED. IF SERIES "C" DOES NOT FIT ON A 8'-0" SIGN, A 30" HIGH TWO-LINE SIGN CAN BE USED. THE CROSSROAD DESIGNATION AS TO STREET, AVENUE, ETC. SHOULD BE SPELLED OUT ON THE SECOND LINE, IF THE ABBREVIATION CANNOT FIT ON THE FIRST LINE.
- LED ILLUMINATED STREET NAME SIGNS CAN BE USED IN PLACE OF REGULAR SIGN PANELS BUT ANY SPECIAL WORDING AND SYMBOLOGY MUST BE APPROVED BY THE DEPARTMENT. GENERAL DESIGN REQUIREMENT AS LISTED ABOVE (COLOR, FONT, SIZE, ETC.) MUST BE FOLLOWED.

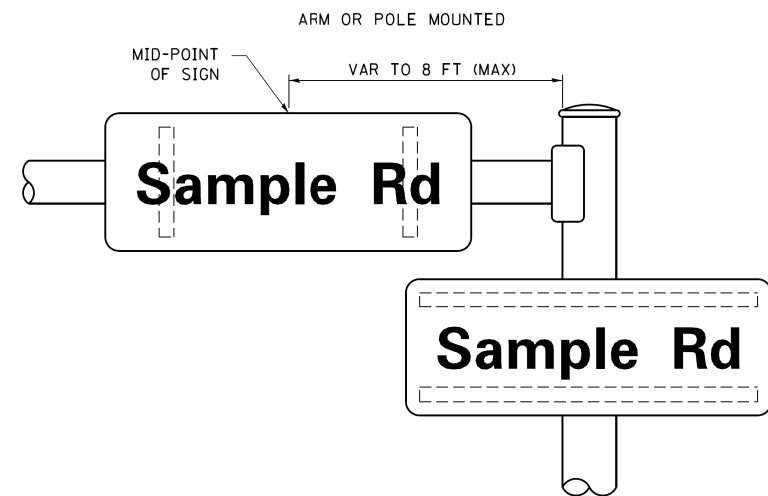
~~SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM SHALL BE USED FOR ALL SIGNS ATTACHED TO SIGNAL POLES AND POSTS.~~

LOCAL SUPPLIERS: J.O. HERBERT COMPANY, INC MIDLOTHIAN, VA
WESTERN REMAC, INC. WOODRIDGE, IL

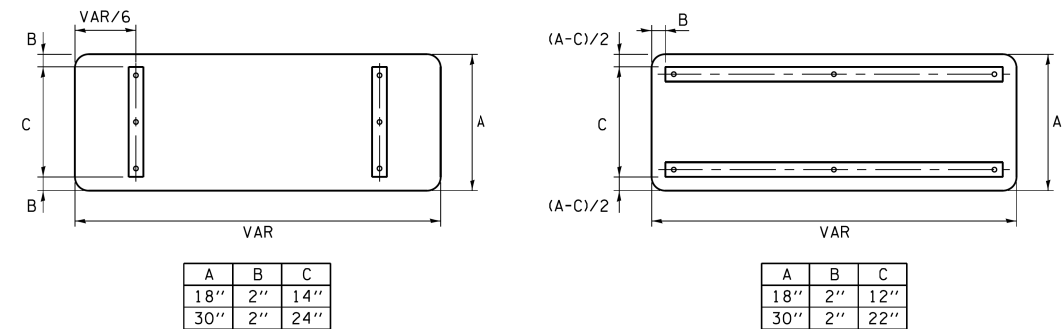
PARTS LISTING:
SIGN CHANNEL PART #HPN053 (MED. CHANNEL)
SIGN SCREWS 1/4" x 14 x 1" H.W.H. #3
BRACKETS SELF TAPPING WITH NEOPRENE WASHER PART #HPN034 (UNIVERSAL)
CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING

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

MOUNTING LOCATION



SUPPORTING CHANNELS

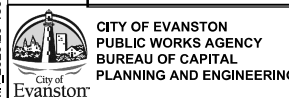


STANDARD ALPHABETS SPACING CHART

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

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

TS SHT NO. 8



CITY OF EVANSTON
PUBLIC WORKS AGENCY
BUREAU OF CAPITAL
PLANNING AND ENGINEERING

USER NAME = Davld
DESIGNED - ACN
DRAWN - BAW
CHECKED - MD
PLOT SCALE = 40,000 / in.
PLOT DATE = 12/29/2022

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 1
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

F.A.U. RTE. 1329
SECTION 19-00283-00-PV
COUNTY COOK
TOTAL SHEETS 164
SHEET NO. 111
CONTRACT NO. 61H93
ILLINOIS FED. AID PROJECT

REMOVAL AND RELOCATION NOTES:

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

- 1 EACH CONTROLLER AND CABINET (COMPLETE)
- 4 EACH TRAFFIC SIGNAL POST
- 12 EACH 3-SECTION SIGNAL HEAD
- 8 EACH PEDESTRIAN SIGNAL HEAD

PRIOR TO REMOVAL BY THE CONTRACTOR, THE CITY SHALL INSPECT AND IDENTIFY ITEMS THAT THEY DESIRE TO SALVAGE AND KEEP. THE CITY WILL PICK UP THOSE ITEMS FROM THE SITE PRIOR TO REMOVAL BY THE CONTRACTOR.

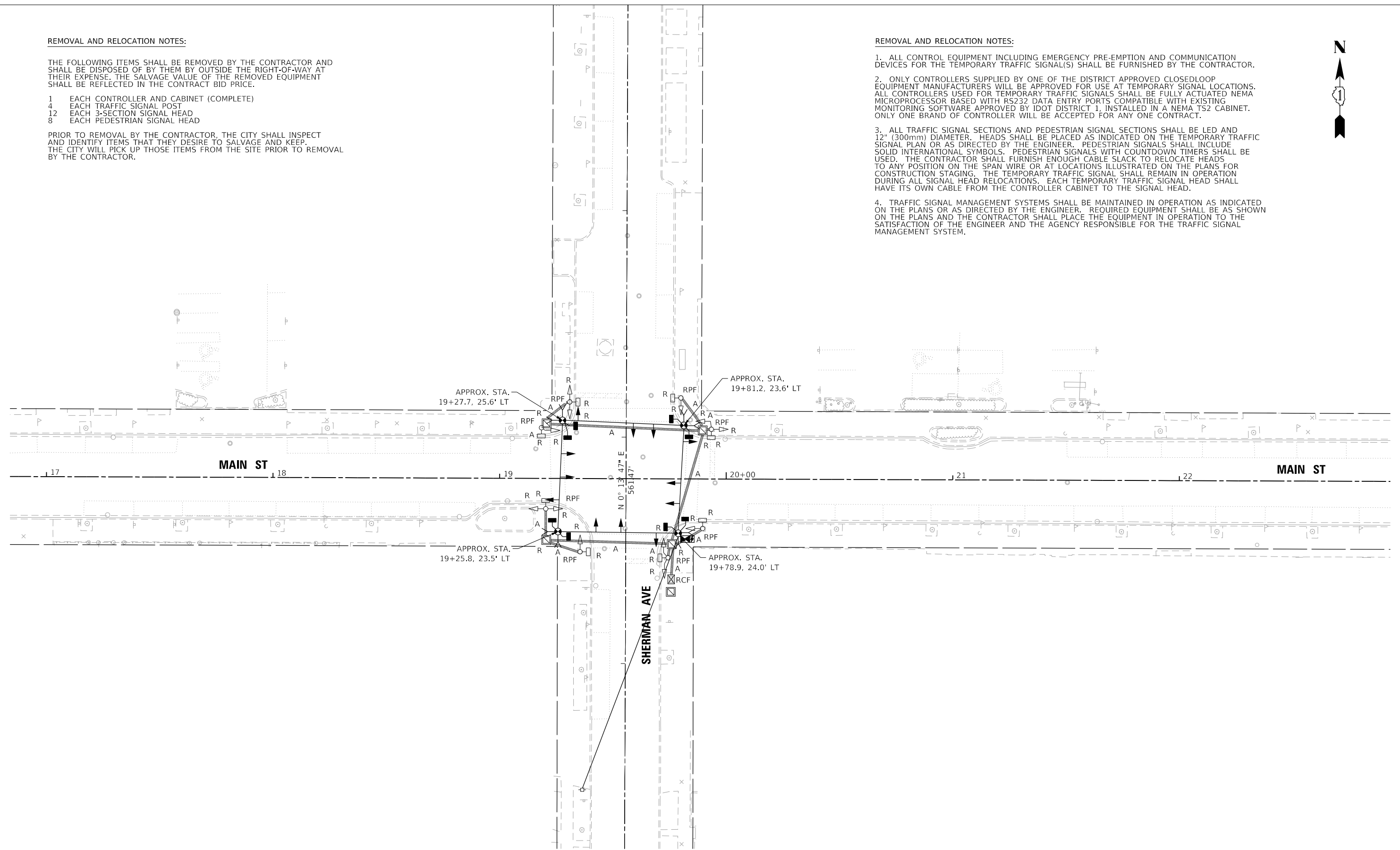
REMOVAL AND RELOCATION NOTES:

1. ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PRE-EMPTION AND COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNAL(S) SHALL BE FURNISHED BY THE CONTRACTOR.

2. ONLY CONTROLLERS SUPPLIED BY ONE OF THE DISTRICT APPROVED CLOSED LOOP EQUIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT TEMPORARY SIGNAL LOCATIONS. ALL CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY ACTUATED NEMA MICROPROCESSOR BASED WITH RS232 DATA ENTRY PORTS COMPATIBLE WITH EXISTING MONITORING SOFTWARE APPROVED BY IDOT DISTRICT 1. INSTALLED IN A NEMA TS2 CABINET. ONLY ONE BRAND OF CONTROLLER WILL BE ACCEPTED FOR ANY ONE CONTRACT.

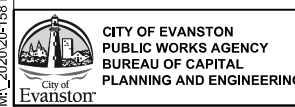
3. ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE LED AND 12" (300mm) DIAMETER. HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. PEDESTRIAN SIGNALS SHALL INCLUDE SOLID INTERNATIONAL SYMBOLS. PEDESTRIAN SIGNALS WITH COUNTDOWN TIMERS SHALL BE USED. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATE HEADS TO ANY POSITION ON THE SPAN WIRE OR AT LOCATIONS ILLUSTRATED ON THE PLANS FOR CONSTRUCTION STAGING. THE TEMPORARY TRAFFIC SIGNAL SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS. EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD.

4. TRAFFIC SIGNAL MANAGEMENT SYSTEMS SHALL BE MAINTAINED IN OPERATION AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. REQUIRED EQUIPMENT SHALL BE AS SHOWN ON THE PLANS AND THE CONTRACTOR SHALL PLACE THE EQUIPMENT IN OPERATION TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE TRAFFIC SIGNAL MANAGEMENT SYSTEM.



TS SHT NO. 9

MA_20201201-158 Patrick.Evanston.Main.St.Plan.Design.Transportation\CADD\CADD Sheets\20-158-Evanston-shi-Signal_Removal_01.dgn



USER NAME = DavIdL	DESIGNED - ACN	REVISED -
DRAWN - BAW	REVISED -	
CHECKED - MD	REVISED -	
DATE - 10/6/22	REVISED -	
PLOT SCALE = 40,0000' / in.		
PLOT DATE = 12/29/2022		

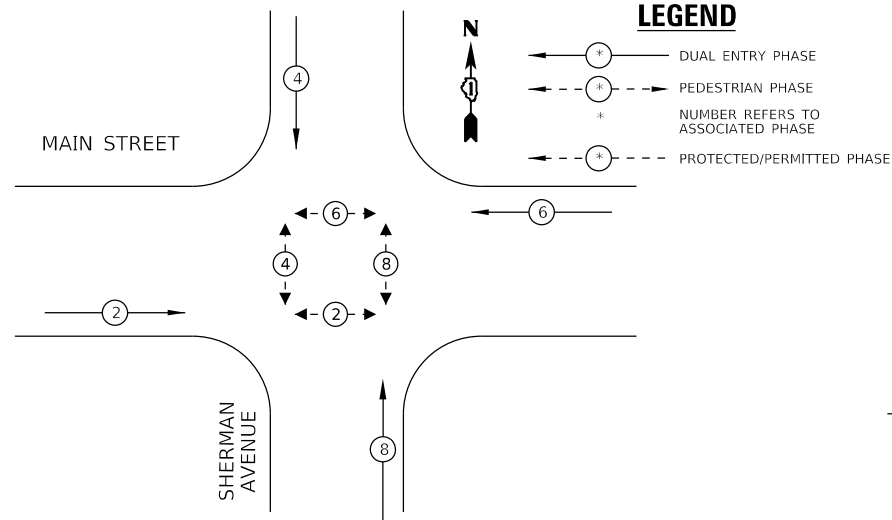
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY TRAFFIC SIGNAL INSTALLATION AND
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN
MAIN STREET IMPROVEMENTS**

SHEET OF SHEETS STA. TO STA.

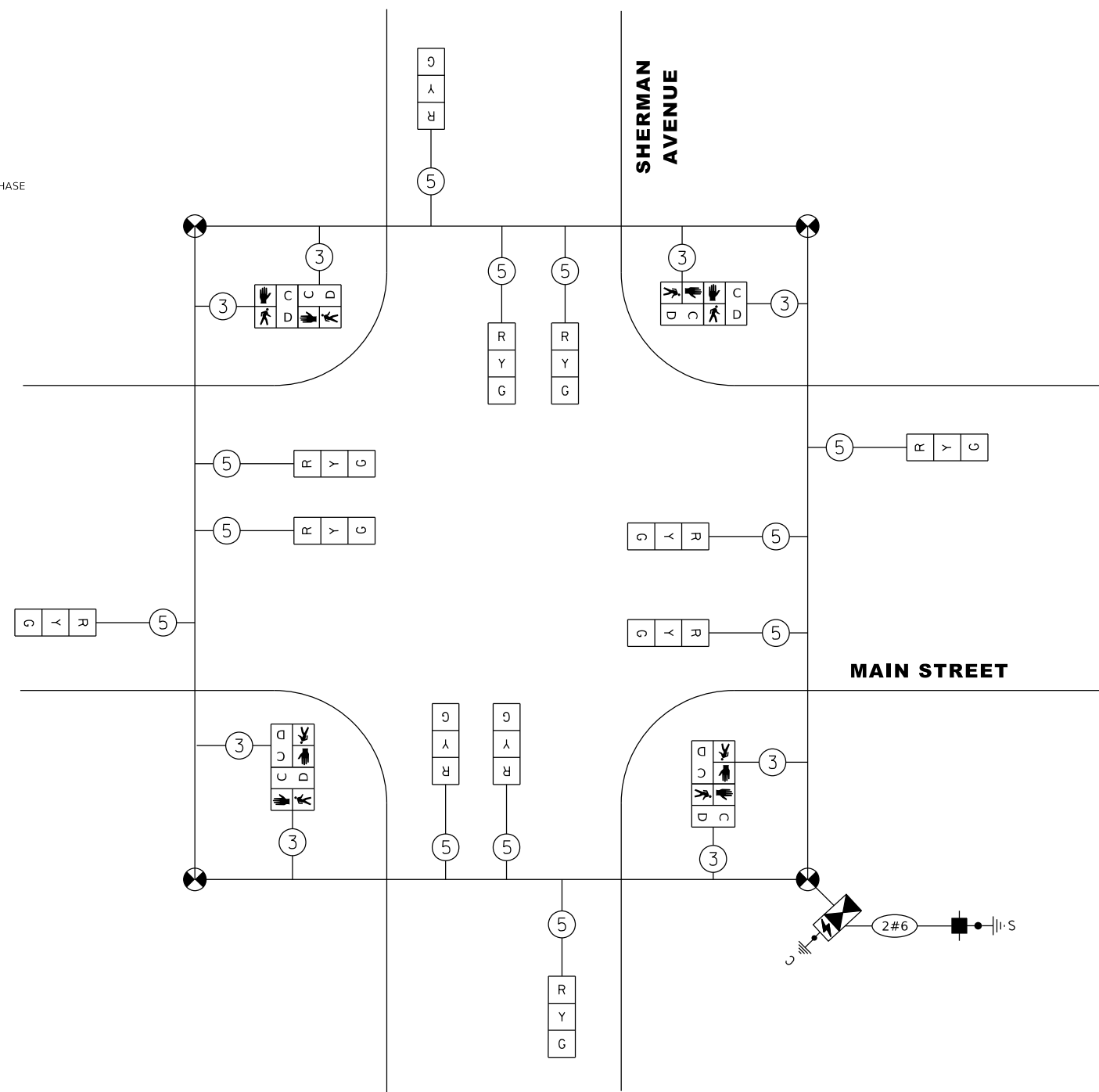
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1329	19-00283-00-PV	COOK	164	112
CONTRACT NO. 61H93			ILLINOIS FED. AID PROJECT	

PROPOSED CONTROLLER SEQUENCE



LEGEND

- DUAL ENTRY PHASE
- - -●- - - PEDESTRIAN PHASE
- * NUMBER REFERS TO ASSOCIATED PHASE
- - -●- - - PROTECTED/PERMITTED PHASE



TEMPORARY CABLE PLAN

NOTES:

- 1) RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250.
- 2) ALL PEDESTRIAN SIGNAL HEADS SHALL BE BAGGED AND DEACTIVATED WHEN EXISTING CROSSWALKS ARE NOT IN USE.
- 3) ALL SIGNAL HEADS FACING THE DIRECTION OF TRAFFIC THAT IS CLOSED SHALL BE BAGGED AND DEACTIVATED WHEN THE APPROPRIATE TRAFFIC FLOW DIRECTION IS DETOURED.
- 4) TEMPORARY TRAFFIC SIGNAL SHALL BE PRETIMED.

I.D.O.T TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS				
TYPE	NO. LAMPS	WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	17	0.50	102.00
(YELLOW)	12	25	0.25	75.00
(GREEN)	12	15	0.25	45.00
ARROW (YELLOW)		12	0.10	
ARROW (GREEN)		11	0.10	
PED. SIGNAL	8	25	1.00	200.00
CONTROLLER	1	100	1.00	100.00
ILLUM. SIGN			0.05	--
BATTERY BACKUP	1	25	1.00	25.00
FLASHER			0.50	--
ENERGY COSTS TO:			TOTAL =	547.00
CITY OF EVANSTON 2100 RIDGE AVENUE EVANSTON, ILLINOIS 60201				
ENERGY SUPPLY CONTACT:		CARLO CAVALLARO		
PHONE:		630-669-3068		
COMPANY:		COMMONWEALTH EDISON		

TS SHT NO. 10

MA_20201201-158 Patrick.Evanston.Main.St.PH.III.Design\Transportation\CADD\CADD Sheets\2020-158-Evanston-sht-TempCables_01.dgn

CITY OF EVANSTON
PUBLIC WORKS AGENCY
BUREAU OF CAPITAL
PLANNING AND ENGINEERING

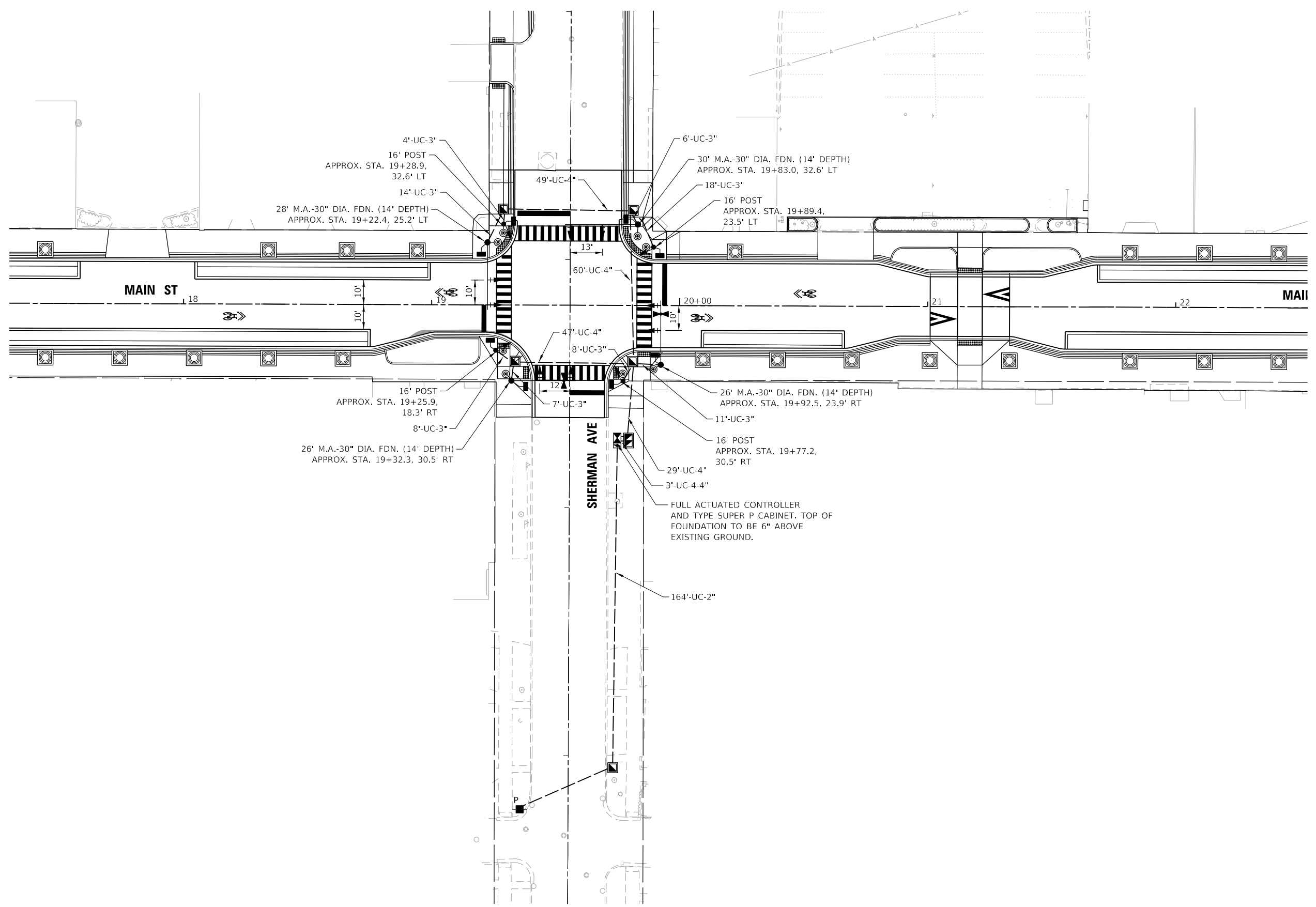
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PLOT DATE = 12/29/2022	CHECKED - MD	REVISED -
	DATE - 10/6/22	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY CABLE PLAN AND
TEMPORARY PHASE DESIGNATION DIAGRAM
MAIN STREET IMPROVEMENTS**

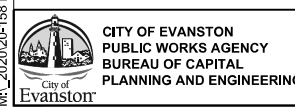
SHEET OF SHEETS STA. TO STA.

F.A.U. RTE. 1329	SECTION 19-00283-00-PV	COUNTY COOK	TOTAL SHEETS 164	SHEET NO. 113
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61H93	



TS SHT NO. 11

MA_20201201-158 Patrick Evanston Main St Ph II Design\Transportation\CADD\CADD Sheets\2020-158-Evanston-shi-Signal_01.dgn



USER NAME = DavtdL	DESIGNED - ACN	REVISED -
	DRAWN - BAW	REVISED -
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PLOT DATE = 12/29/2022	DATE - 10/6/22	REVISED -

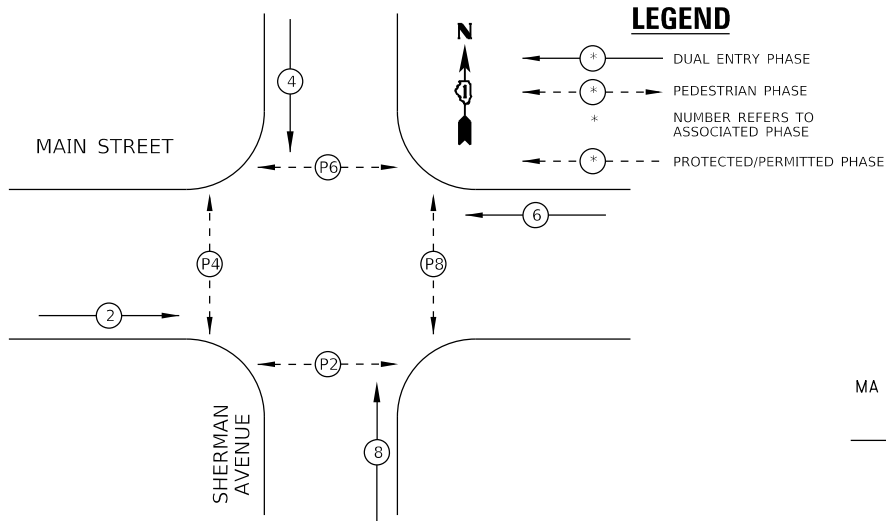
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL MODERNIZATION PLAN
MAIN STREET IMPROVEMENTS**

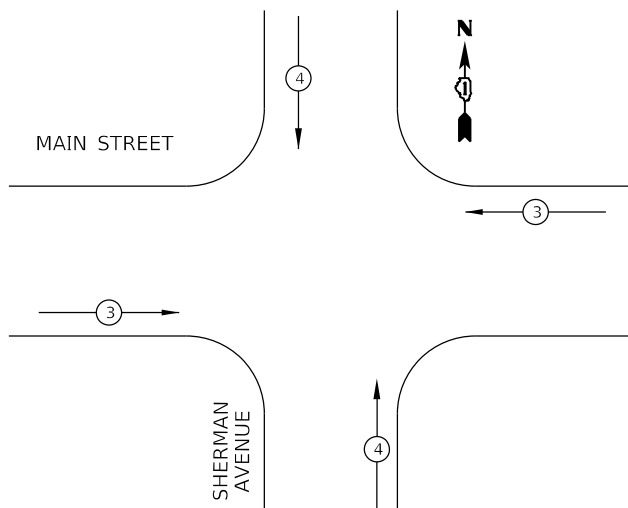
SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1329	19-00283-00-PV	COOK	164	114
CONTRACT NO. 61H93				
ILLINOIS FED. AID PROJECT				

PROPOSED CONTROLLER SEQUENCE



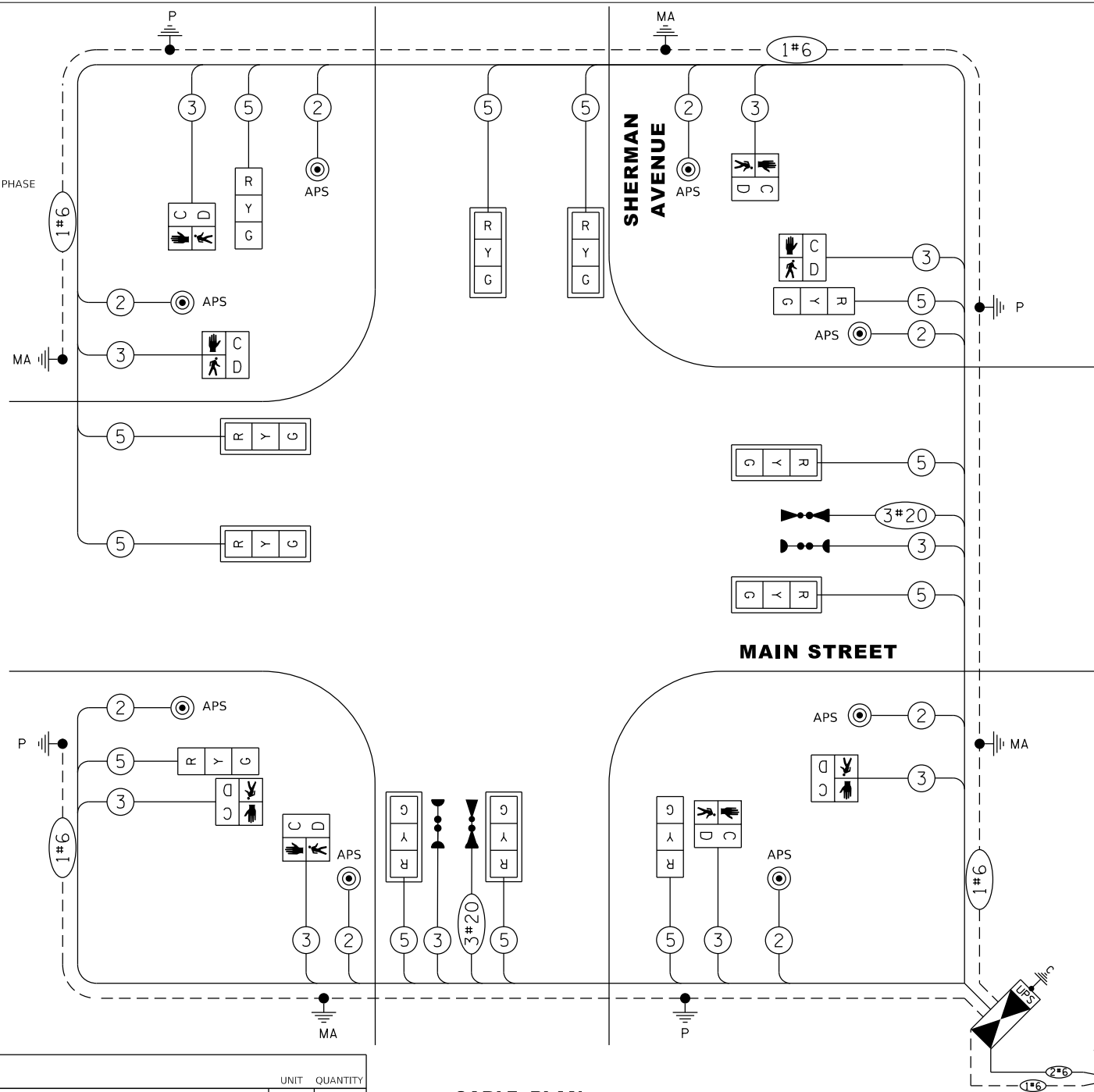
**PROPOSED EMERGENCY VEHICLE
PREEMPTION SEQUENCE**



SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNIT	QUANTITY	ITEM DESCRIPTION	UNIT	QUANTITY
SIGN PANEL - TYPE 1	SQ FT	27	STEEL MAST ARM ASSEMBLY AND POLE, 26 FT.	EACH	2
SERVICE INSTALLATION, POLE MOUNTED	EACH	1	STEEL MAST ARM ASSEMBLY AND POLE, 28 FT.	EACH	1
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	164	STEEL MAST ARM ASSEMBLY AND POLE, 30 FT.	EACH	1
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	76	CONCRETE FOUNDATION, TYPE A	FOOT	16
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	201	CONCRETE FOUNDATION, TYPE C	FOOT	4
HANDHOLE	EACH	4	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	56
DOUBLE HANDHOLE	EACH	1	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	FOOT	8
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1104	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1420	PEDESTRIAN SIGNAL HEAD, LED, 1 FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1932	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	8
ELECTRIC CABLE IN CONDUIT, SERVICE NO. 6 2C	FOOT	284	LIGHT DETECTOR	EACH	4
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1115	LIGHT DETECTOR AMPLIFIER	EACH	1
TRAFFIC SIGNAL POST, PAINTED STEEL 16 FT.	EACH	4	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	264
			FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET	EACH	1
			UNINTERRUPTIBLE POWER SUPPLY, SPECIAL	EACH	1
			ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8

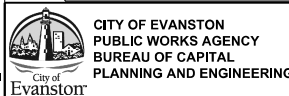
CABLE PLAN



- NOTES:
- 1) THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE/SIEMENS" TO MATCH THE EXISTING ADJACENT SYSTEM.
 - 2) RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250.
 - 3) SIGNAL TIMING TO BE PRETIMED.

I.D.O.T TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE	% OPERATION		
SIGNAL (RED)	12	17	0.50	102.00	
(YELLOW)	12	25	0.25	75.00	
(GREEN)	12	15	0.25	45.00	
ARROW (YELLOW)		12	0.10		
ARROW (GREEN)		11	0.10		
PED. SIGNAL	8	25	1.00	200.00	
CONTROLLER	1	100	1.00	100.00	
ILLUM. SIGN			0.05	--	
BATTERY BACKUP	1	25	1.00	25.00	
FLASHER			0.50	--	
ENERGY COSTS TO:				TOTAL =	547.00
CITY OF EVANSTON 2100 RIDGE AVENUE EVANSTON, ILLINOIS 60201					
ENERGY SUPPLY CONTACT: CARLO CAVALLARO PHONE: 630-669-3068 COMPANY: COMMONWEALTH EDISON					

TS SHT NO. 12



CITY OF EVANSTON
PUBLIC WORKS AGENCY
BUREAU OF CAPITAL
PLANNING AND ENGINEERING

USER NAME = Davkdl	DESIGNED - ACN	REVISED -
PLOT SCALE = 40,0000' / in.	DRAWN - BAW	REVISED -
PLOT DATE = 12/29/2022	CHECKED - MD	REVISED -
	DATE - 10/6/22	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION
DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
MAIN STREET IMPROVEMENTS

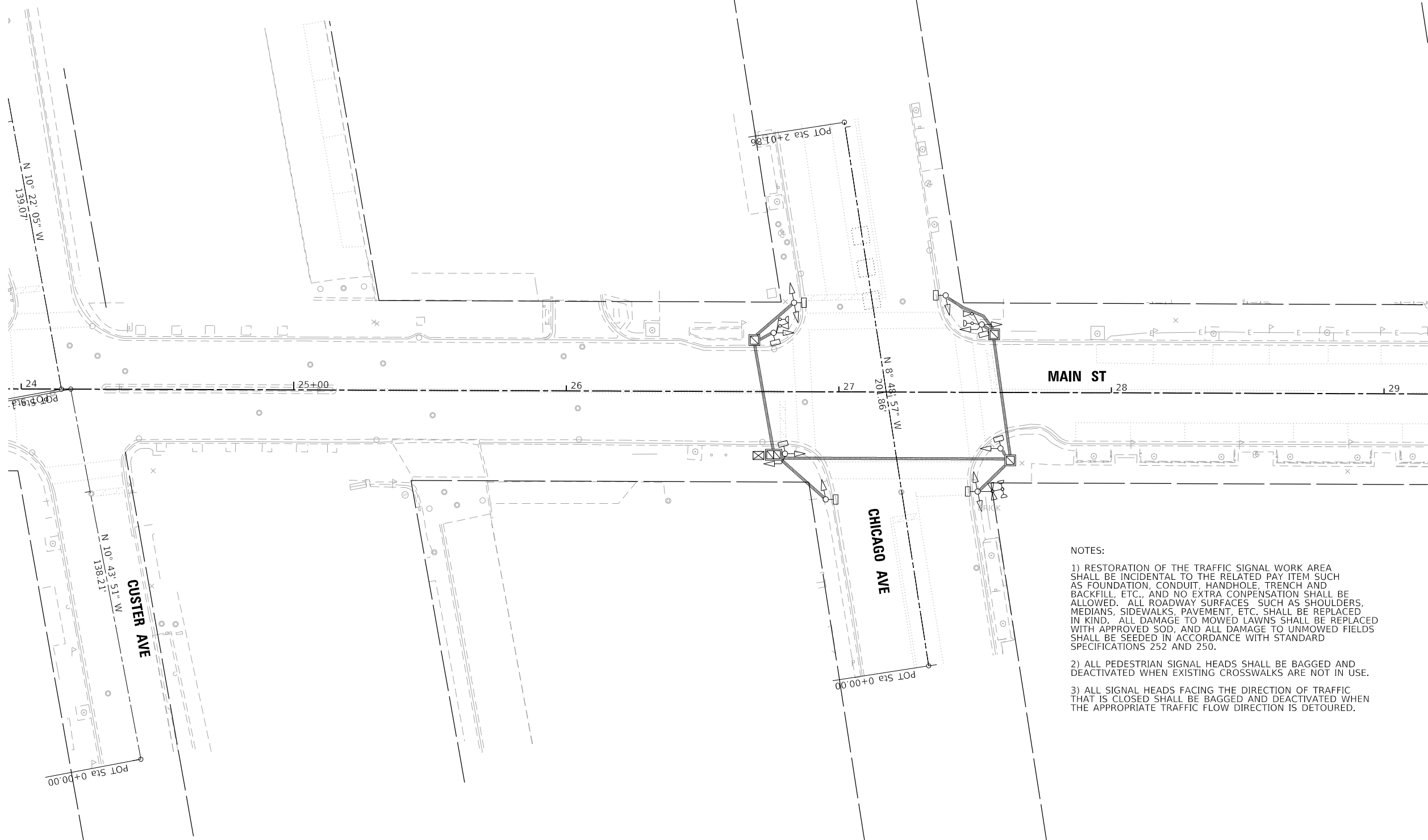
F.A.U. RTE. 1329	SECTION 19-00283-00-PV	COUNTY COOK	TOTAL SHEETS 164	SHEET NO. 115
CONTRACT NO. 61H93				
ILLINOIS FED. AID PROJECT				

REMOVAL AND RELOCATION NOTES:

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

NO ITEMS

PRIOR TO REMOVAL BY THE CONTRACTOR, THE CITY SHALL INSPECT AND IDENTIFY ITEMS THAT THEY DESIRE TO SALVAGE AND KEEP. THE CITY WILL PICK UP THOSE ITEMS FROM THE SITE PRIOR TO REMOVAL BY THE CONTRACTOR.



NOTES:

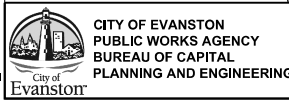
1) RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250.

2) ALL PEDESTRIAN SIGNAL HEADS SHALL BE BAGGED AND DEACTIVATED WHEN EXISTING CROSSWALKS ARE NOT IN USE.

3) ALL SIGNAL HEADS FACING THE DIRECTION OF TRAFFIC THAT IS CLOSED SHALL BE BAGGED AND DEACTIVATED WHEN THE APPROPRIATE TRAFFIC FLOW DIRECTION IS DETOURED.

TS SHT NO. 13

MA_2020\20-158_Patrick_Evanston_Main St_Plan\Design\Transportation\CADD\CADD_Sheets\20-158-Evanston-sht-Signal_Removal_02.dgn



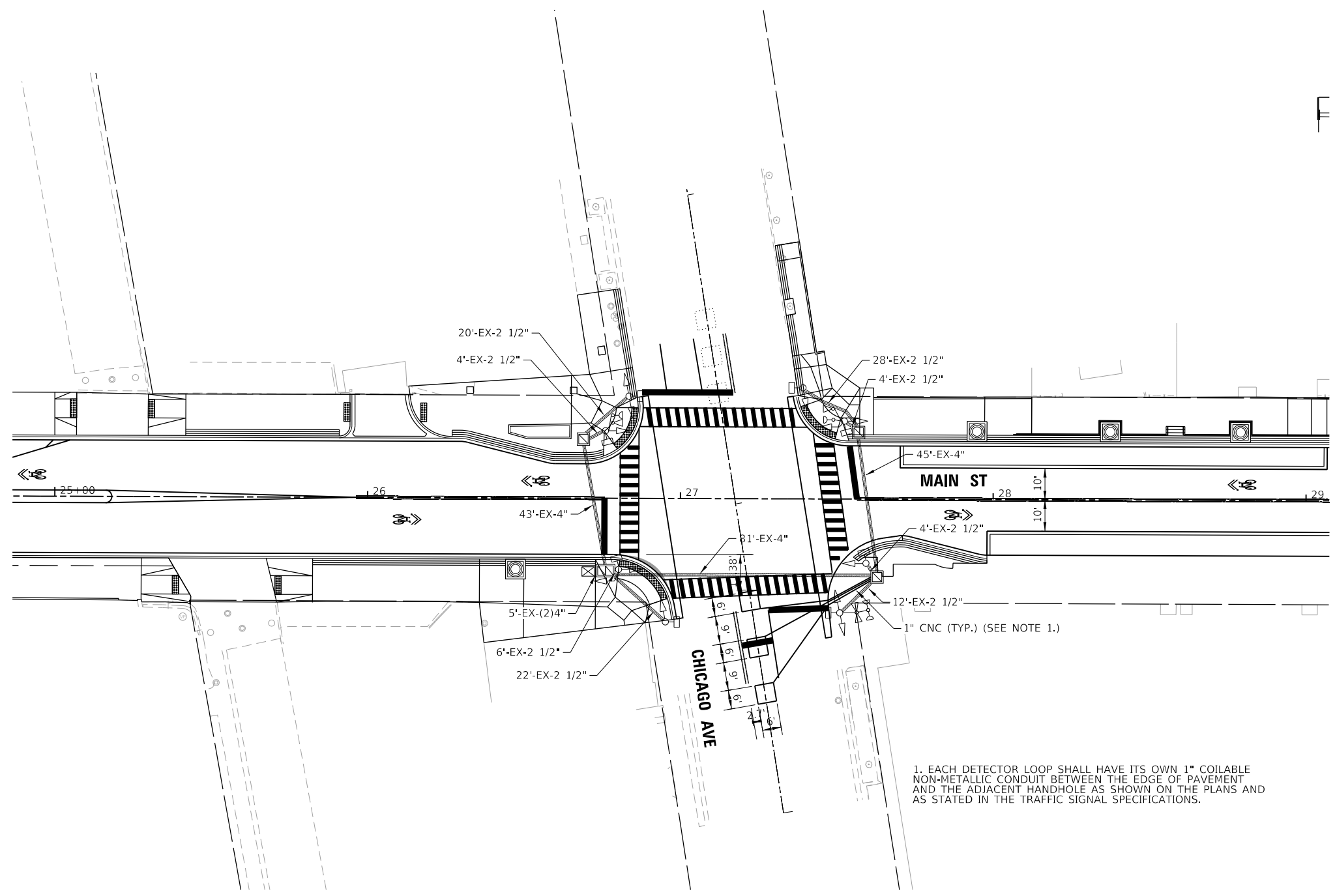
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PLOT DATE = 12/29/2022	CHECKED - MD	REVISED -
	DATE - 10/6/22	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN
MAIN STREET IMPROVEMENTS**

SHEET OF SHEETS STA. TO STA.

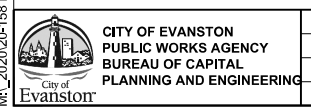
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1329	19-00283-00-PV	COOK	164	116
CONTRACT NO. 61H93				
ILLINOIS FED. AID PROJECT				



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

TS SHT NO. 14

MA_20201201-158_Patrick_Evanston_Main St PH IIDesign\Transportation\CADD\CADD Sheets\20-158-Evanston-sht-Signal_02.dgn



USER NAME = DavtdL	DESIGNED - ACN	REVISED -
PLOT SCALE = 40,0000' / in.	DRAWN - BAW	REVISED -
PLOT DATE = 12/29/2022	CHECKED - MD	REVISED -
	DATE - 10/6/22	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
MAIN STREET IMPROVEMENTS

SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1329	19-00283-00-PV	COOK	164	117
CONTRACT NO. 61H93				
ILLINOIS FED. AID PROJECT				

REMOVAL AND RELOCATION NOTES:

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

- 1 EACH CONTROLLER AND CABINET (COMPLETE)
- 4 EACH TRAFFIC SIGNAL POST
- 12 EACH 3-SECTION SIGNAL HEAD
- 8 EACH PEDESTRIAN SIGNAL HEAD

PRIOR TO REMOVAL BY THE CONTRACTOR, THE CITY SHALL INSPECT AND IDENTIFY ITEMS THAT THEY DESIRE TO SALVAGE AND KEEP. THE CITY WILL PICK UP THOSE ITEMS FROM THE SITE PRIOR TO REMOVAL BY THE CONTRACTOR.

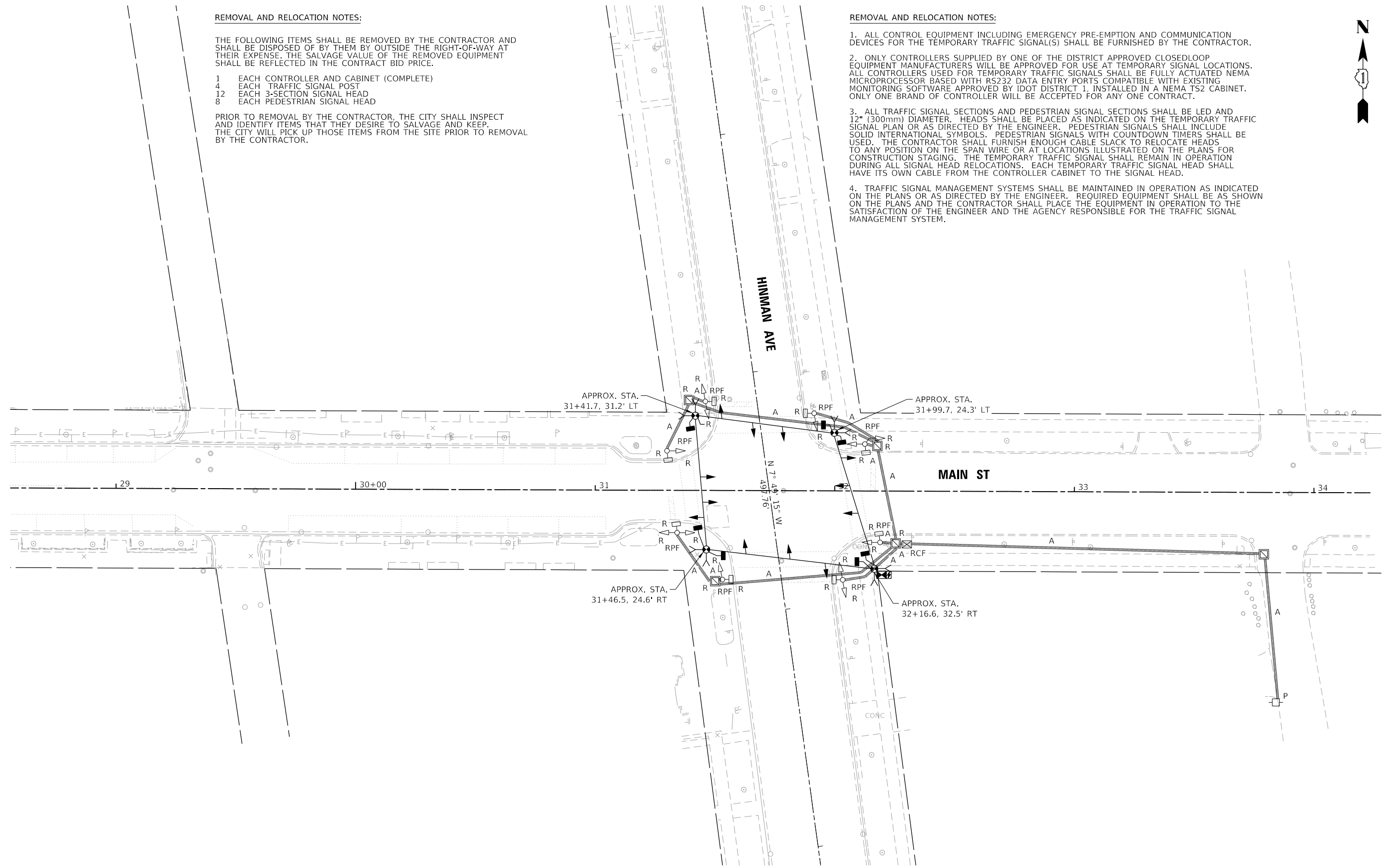
REMOVAL AND RELOCATION NOTES:

1. ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PRE-EMPTION AND COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNAL(S) SHALL BE FURNISHED BY THE CONTRACTOR.

2. ONLY CONTROLLERS SUPPLIED BY ONE OF THE DISTRICT APPROVED CLOSEDLOOP EQUIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT TEMPORARY SIGNAL LOCATIONS. ALL CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY ACTUATED NEMA MICROPROCESSOR BASED WITH RS232 DATA ENTRY PORTS COMPATIBLE WITH EXISTING MONITORING SOFTWARE APPROVED BY IDOT DISTRICT 1, INSTALLED IN A NEMA TS2 CABINET. ONLY ONE BRAND OF CONTROLLER WILL BE ACCEPTED FOR ANY ONE CONTRACT.

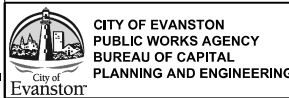
3. ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE LED AND 12" (300mm) DIAMETER. HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. PEDESTRIAN SIGNALS SHALL INCLUDE SOLID INTERNATIONAL SYMBOLS. PEDESTRIAN SIGNALS WITH COUNTDOWN TIMERS SHALL BE USED. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATE HEADS TO ANY POSITION ON THE SPAN WIRE OR AT LOCATIONS ILLUSTRATED ON THE PLANS FOR CONSTRUCTION STAGING. THE TEMPORARY TRAFFIC SIGNAL SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS. EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD.

4. TRAFFIC SIGNAL MANAGEMENT SYSTEMS SHALL BE MAINTAINED IN OPERATION AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. REQUIRED EQUIPMENT SHALL BE AS SHOWN ON THE PLANS AND THE CONTRACTOR SHALL PLACE THE EQUIPMENT IN OPERATION TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE TRAFFIC SIGNAL MANAGEMENT SYSTEM.



TS SHT NO. 16

MA_20201201-158 Patrick.Evanston_Main St_Ph II Design\Transportation\CADD\CADD Sheets\20-158-Evanston-sht-Signal_Removal_03.dgn



USER NAME = DavtdL	DESIGNED - ACN	REVISED -
PLOT SCALE = 40,0000' / in.	DRAWN - BAW	REVISED -
PLOT DATE = 12/29/2022	CHECKED - MD	REVISED -
	DATE - 10/6/22	REVISED -

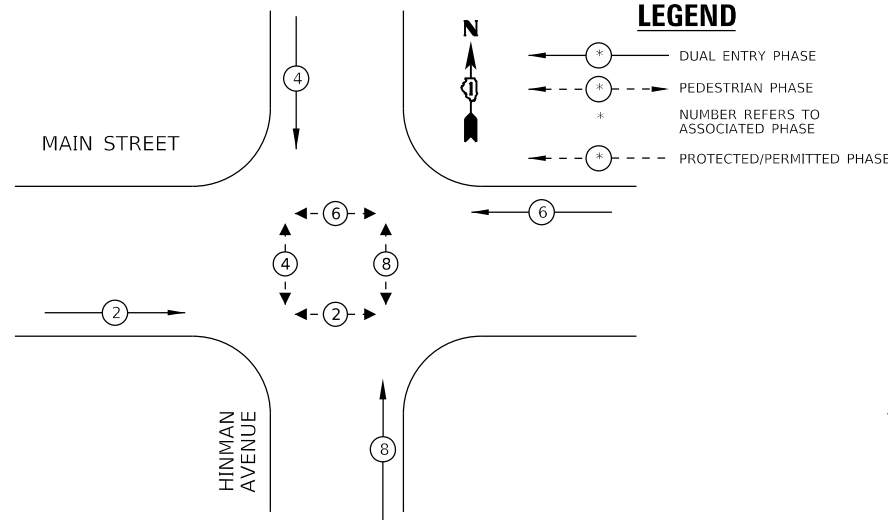
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY TRAFFIC SIGNAL INSTALLATION AND
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN
MAIN STREET IMPROVEMENTS**

SHEET OF SHEETS STA. TO STA.

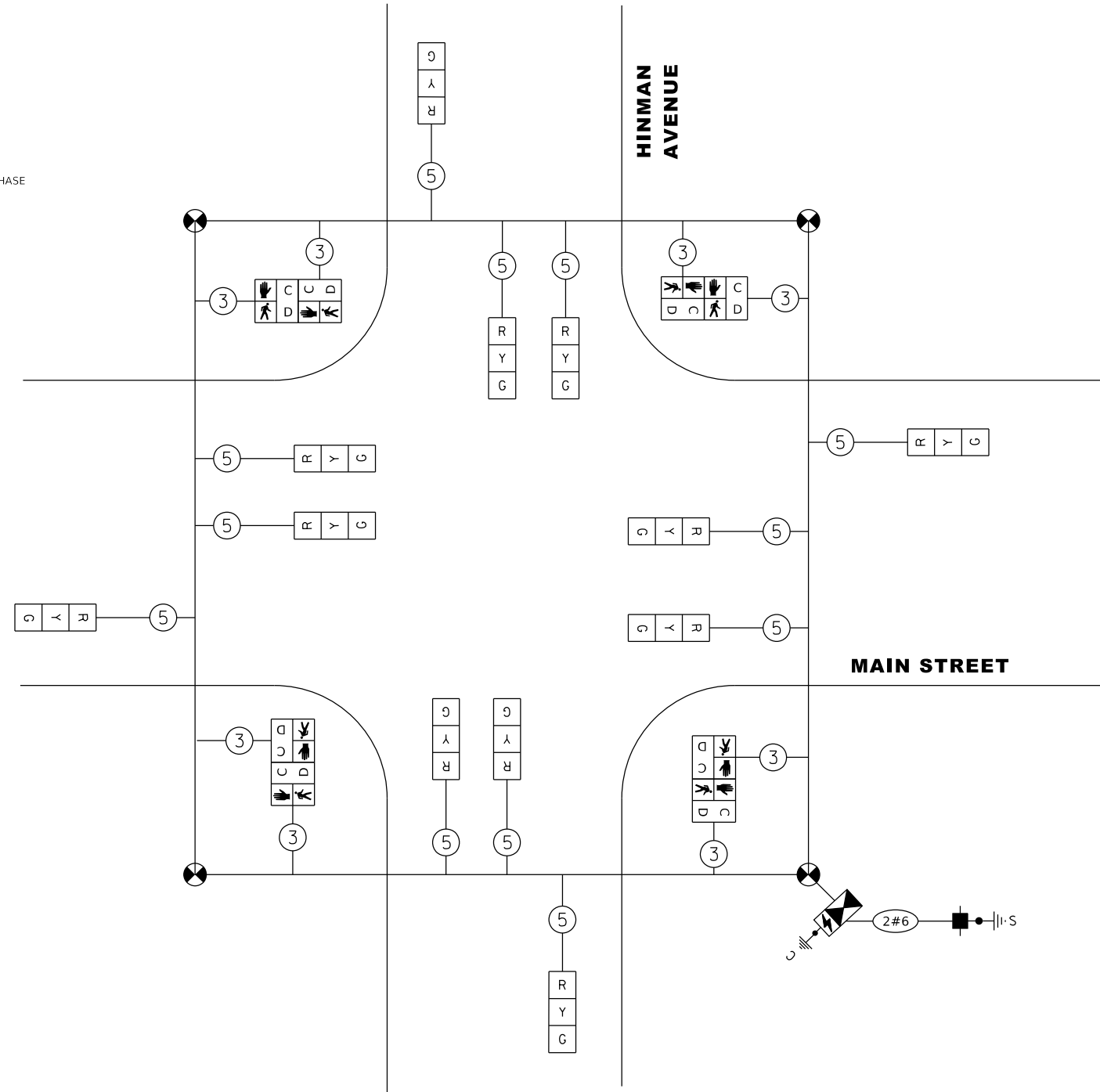
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1329	19-00283-00-PV	COOK	164	119
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61H93	

PROPOSED CONTROLLER SEQUENCE



LEGEND

- DUAL ENTRY PHASE
- ★ PEDESTRIAN PHASE
- * NUMBER REFERS TO ASSOCIATED PHASE
- ★--- PROTECTED/PERMITTED PHASE



TEMPORARY CABLE PLAN

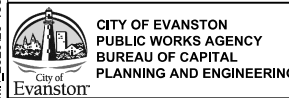
NOTES:

- 1) RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250.
- 2) ALL PEDESTRIAN SIGNAL HEADS SHALL BE BAGGED AND DEACTIVATED WHEN EXISTING CROSSWALKS ARE NOT IN USE.
- 3) ALL SIGNAL HEADS FACING THE DIRECTION OF TRAFFIC THAT IS CLOSED SHALL BE BAGGED AND DEACTIVATED WHEN THE APPROPRIATE TRAFFIC FLOW DIRECTION IS DETOURED.
- 4) TEMPORARY TRAFFIC SIGNAL SHALL BE PRETIMED.

I.D.O.T TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS				TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE	% OPERATION	
SIGNAL (RED)	12	17	0.50	102.00
(YELLOW)	12	25	0.25	75.00
(GREEN)	12	15	0.25	45.00
ARROW (YELLOW)		12	0.10	
ARROW (GREEN)		11	0.10	
PED. SIGNAL	8	25	1.00	200.00
CONTROLLER	1	100	1.00	100.00
ILLUM. SIGN			0.05	--
BATTERY BACKUP	1	25	1.00	25.00
FLASHER			0.50	--
ENERGY COSTS TO:			TOTAL =	547.00
CITY OF EVANSTON 2100 RIDGE AVENUE EVANSTON, ILLINOIS 60201				
ENERGY SUPPLY CONTACT:		CARLO CAVALLARO		
PHONE:		630-669-3068		
COMPANY:		COMMONWEALTH EDISON		

TS SHT NO. 17

MA_20201201-158 Patrick.Evanston.Main.St.PH.Design\Transportation\CADD\CADD Sheets\20-158-Evanston-sht-TempCables_03.dgn



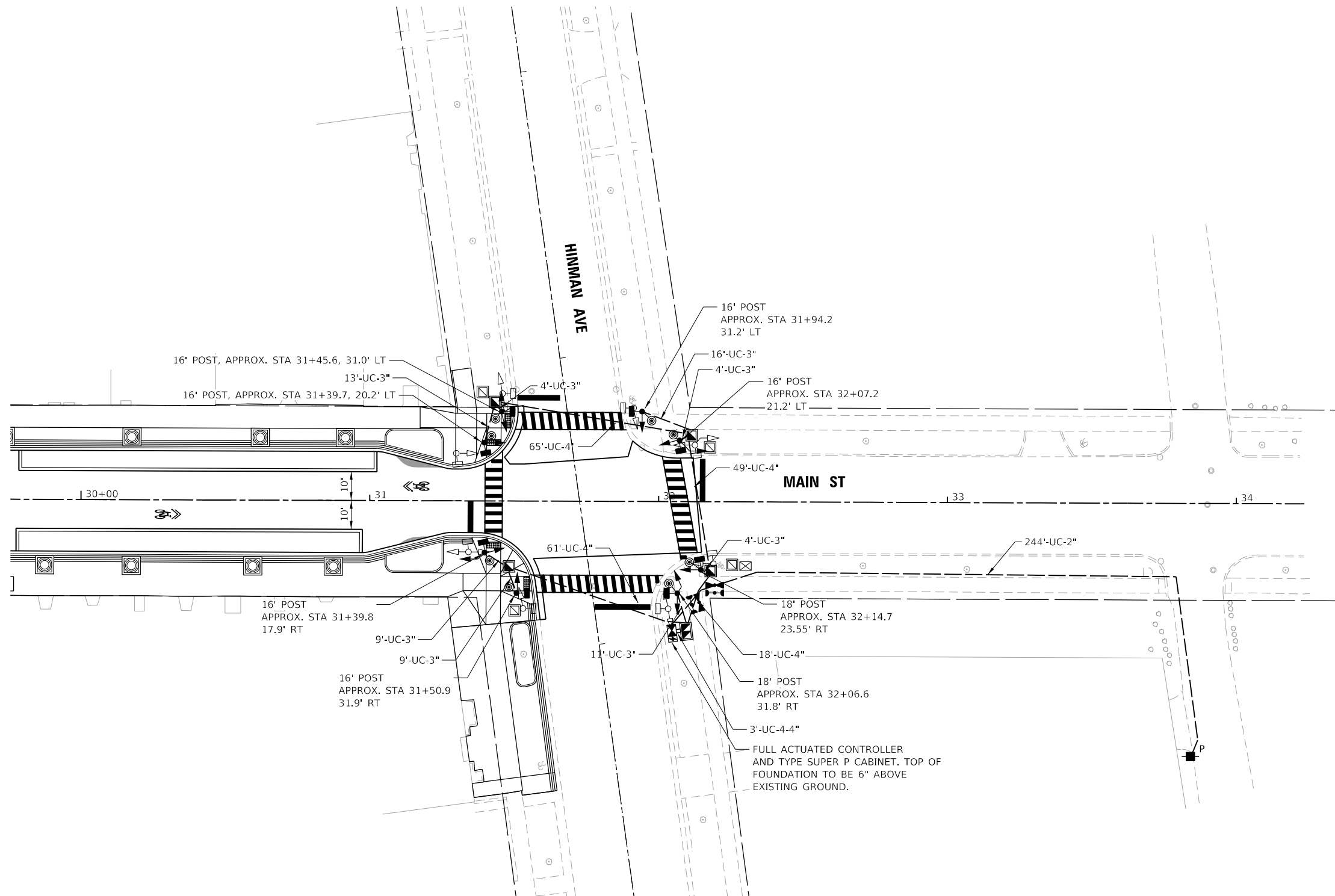
CITY OF EVANSTON
PUBLIC WORKS AGENCY
BUREAU OF CAPITAL
PLANNING AND ENGINEERING

USER NAME = DavIdL	DESIGNED - ACN	REVISED -
PLOT SCALE = 40,0000' / in.	DRAWN - BAW	REVISED -
PLOT DATE = 12/29/2022	CHECKED - MD	REVISED -
	DATE - 10/6/22	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

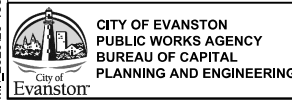
TEMPORARY CABLE PLAN AND
TEMPORARY PHASE DESIGNATION DIAGRAM
MAIN STREET IMPROVEMENTS

F.A.U. RTE. 1329	SECTION 19-00283-00-PV	COUNTY COOK	TOTAL SHEETS 164	SHEET NO. 120
SHEET OF SHEETS STA. TO STA.			CONTRACT NO. 61H93	
ILLINOIS FED. AID PROJECT				



TS SHT NO. 18

MA_20201201-158 Patrick.Evanston Main St PH IIDesign\Transportation\CADD\CADD Sheets\2021-158-Evanston-sht-Signal_03.dgn



USER NAME = DavtdL	DESIGNED - ACN	REVISED -
PLOT SCALE = 40,0000' / in.	DRAWN - BAW	REVISED -
PLOT DATE = 12/29/2022	CHECKED - MD	REVISED -
	DATE - 10/6/22	REVISED -

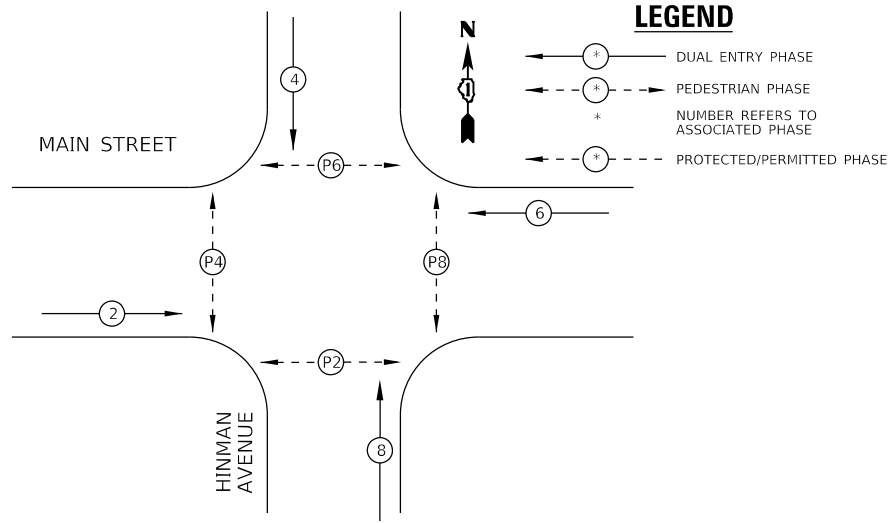
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL MODERNIZATION PLAN
MAIN STREET IMPROVEMENTS**

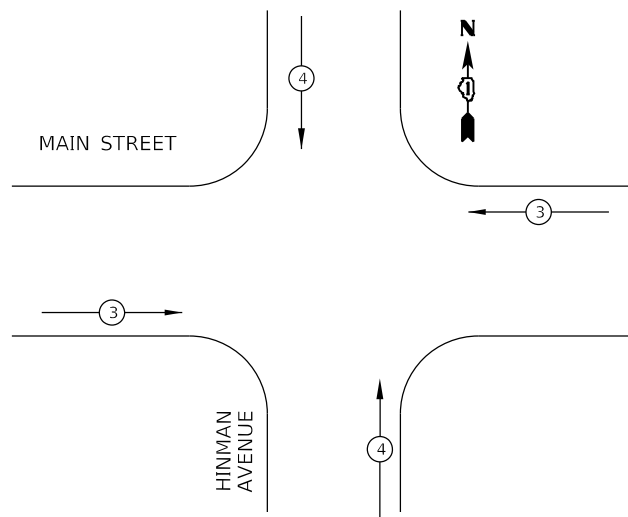
SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1329	19-00283-00-PV	COOK	164	121
CONTRACT NO. 61H93				
ILLINOIS FED. AID PROJECT				

PROPOSED CONTROLLER SEQUENCE

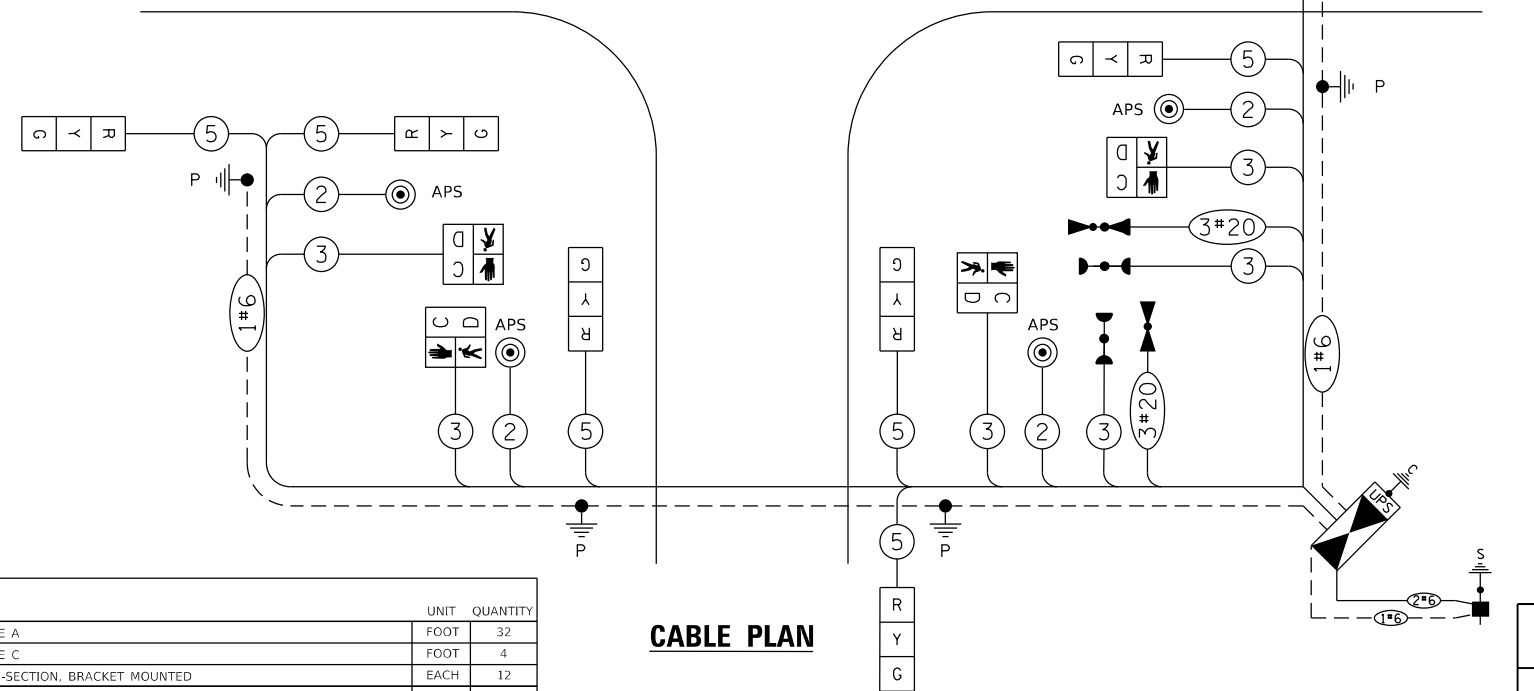


**PROPOSED EMERGENCY VEHICLE
PREEMPTION SEQUENCE**



SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNIT	QUANTITY	ITEM DESCRIPTION	UNIT	QUANTITY
SIGN PANEL - TYPE 1	SQ FT	27	CONCRETE FOUNDATION, TYPE A	FOOT	32
SERVICE INSTALLATION, POLE MOUNTED	EACH	1	CONCRETE FOUNDATION, TYPE C	FOOT	4
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	244	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	12
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	70	PEDESTRIAN SIGNAL HEAD, LED, 1 FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	209	LIGHT DETECTOR	EACH	4
HANDHOLE	EACH	4	LIGHT DETECTOR AMPLIFIER	EACH	1
DOUBLE HANDHOLE	EACH	1	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	119
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	953	FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	923	UNINTERRUPTIBLE POWER SUPPLY, SPECIAL	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1698	ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
ELECTRIC CABLE IN CONDUIT, SERVICE NO. 6 2C	FOOT	119			
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1117			
TRAFFIC SIGNAL POST, PAINTED STEEL 16 FT.	EACH	6			
TRAFFIC SIGNAL POST, PAINTED STEEL 18 FT.	EACH	2			



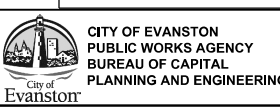
CABLE PLAN

- NOTES:
- 1) THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE/SIEMENS" TO MATCH THE EXISTING ADJACENT SYSTEM.
 - 2) RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250.
 - 3) SIGNAL TIMING TO BE PRETIMED.

I.D.O.T TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE	% OPERATION		
SIGNAL (RED)	12	17	0.50	102.00	
(YELLOW)	12	25	0.25	75.00	
(GREEN)	12	15	0.25	45.00	
ARROW (YELLOW)		12	0.10		
ARROW (GREEN)		11	0.10		
PED. SIGNAL	8	25	1.00	200.00	
CONTROLLER	1	100	1.00	100.00	
ILLUM. SIGN			0.05	--	
BATTERY BACKUP	1	25	1.00	25.00	
FLASHER			0.50	--	
ENERGY COSTS TO:				TOTAL =	547.00
CITY OF EVANSTON 2100 RIDGE AVENUE EVANSTON, ILLINOIS 60201					
ENERGY SUPPLY CONTACT: CARLO CAVALLARO					
PHONE: 630-669-3068					
COMPANY: COMMONWEALTH EDISON					

TS SHT NO. 19

MA_20201201-158 Patrick, Evanston Main St PH Design\Transportation\CADD\Sheets\2020-158-Evanston-sht-Cables_03.dgn

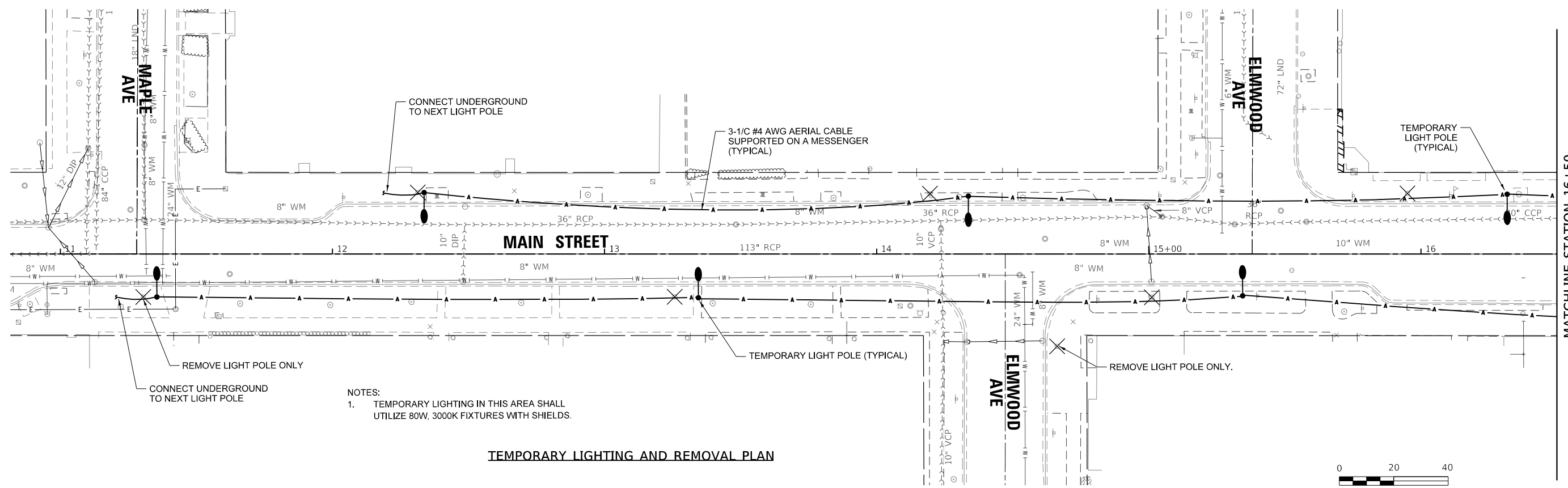


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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

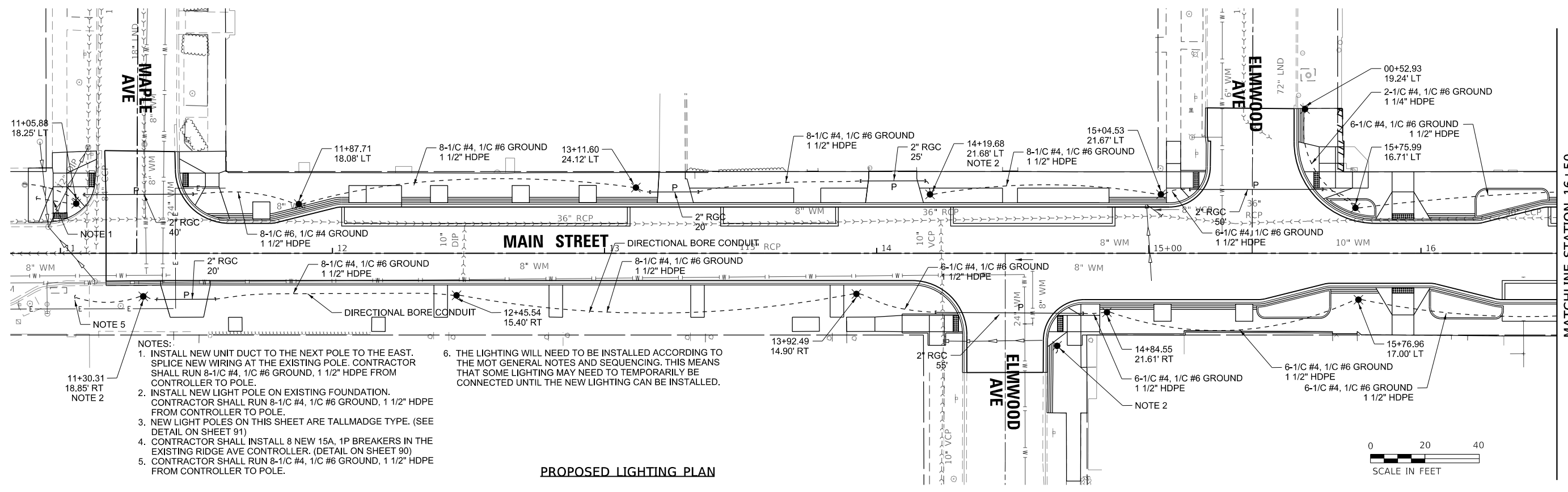
SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION
DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
MAIN STREET IMPROVEMENTS

F.A.U. RTE. 1329	SECTION 19-00283-00-PV	COUNTY COOK	TOTAL SHEETS 164	SHEET NO. 122
				CONTRACT NO. 61H93
		ILLINOIS FED. AID PROJECT		



NOTES:
 1. TEMPORARY LIGHTING IN THIS AREA SHALL UTILIZE 80W, 3000K FIXTURES WITH SHIELDS.

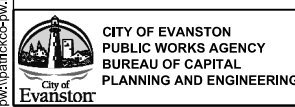
TEMPORARY LIGHTING AND REMOVAL PLAN



NOTES:
 1. INSTALL NEW UNIT DUCT TO THE NEXT POLE TO THE EAST. SPLICE NEW WIRING AT THE EXISTING POLE. CONTRACTOR SHALL RUN 8-1/2" #4, 1/2" #6 GROUND, 1 1/2" HDPE FROM CONTROLLER TO POLE.
 2. INSTALL NEW LIGHT POLE ON EXISTING FOUNDATION. CONTRACTOR SHALL RUN 8-1/2" #4, 1/2" #6 GROUND, 1 1/2" HDPE FROM CONTROLLER TO POLE.
 3. NEW LIGHT POLES ON THIS SHEET ARE TALLMADGE TYPE. (SEE DETAIL ON SHEET 91)
 4. CONTRACTOR SHALL INSTALL 8 NEW 15A, 1P BREAKERS IN THE EXISTING RIDGE AVE CONTROLLER. (DETAIL ON SHEET 90)
 5. CONTRACTOR SHALL RUN 8-1/2" #4, 1/2" #6 GROUND, 1 1/2" HDPE FROM CONTROLLER TO POLE.
 6. THE LIGHTING WILL NEED TO BE INSTALLED ACCORDING TO THE MOT GENERAL NOTES AND SEQUENCING. THIS MEANS THAT SOME LIGHTING MAY NEED TO TEMPORARILY BE CONNECTED UNTIL THE NEW LIGHTING CAN BE INSTALLED.

PROPOSED LIGHTING PLAN

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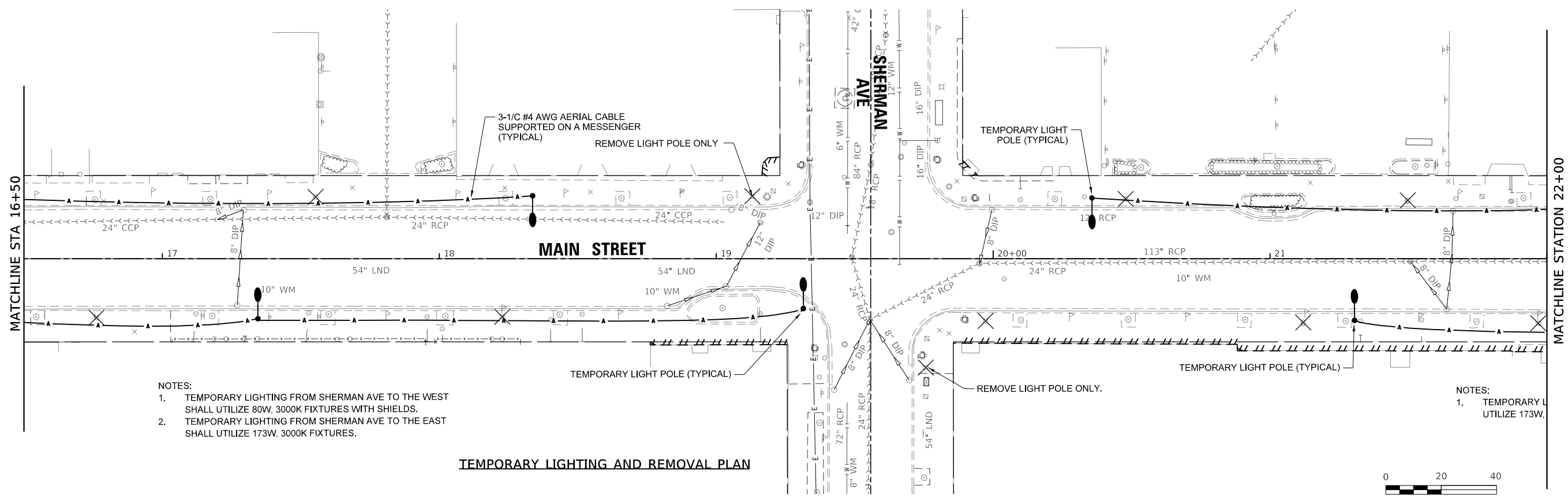
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PLOT DATE = 1/6/2023	CHECKED - MD	REVISED -
	DATE - 1/6/23	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

MAIN STREET IMPROVEMENTS
 PROPOSED LIGHTING PLAN STA 11+14.99 - STA 16+50

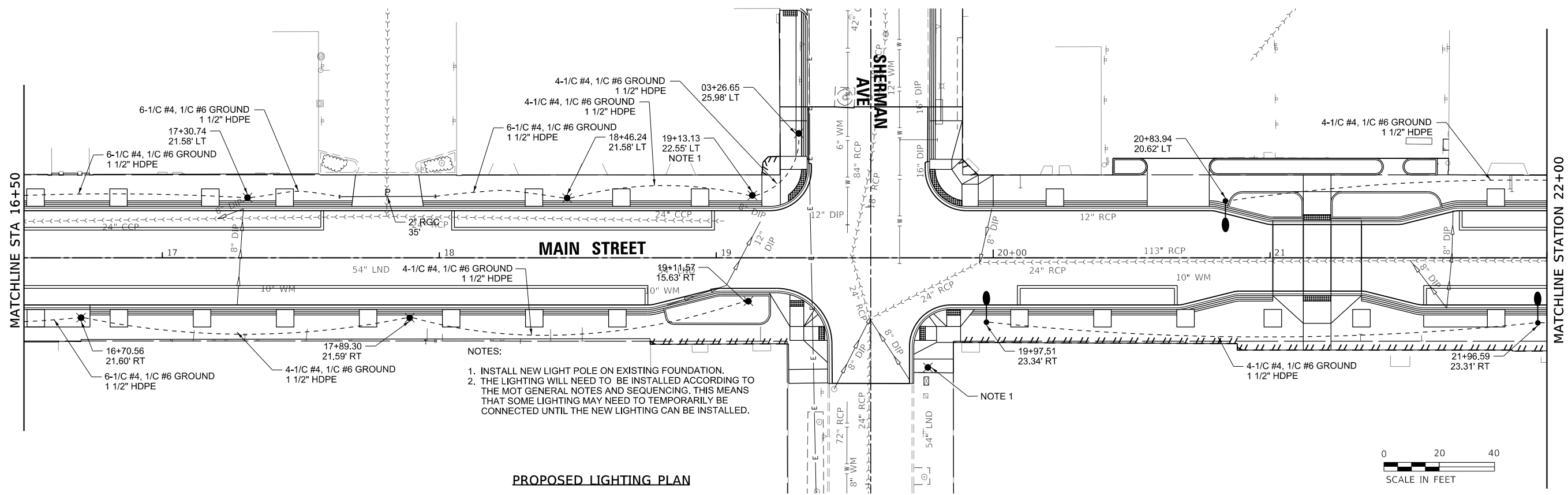
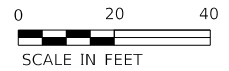
F.A.U. RTE. 1329	SECTION 19-00283-00-PV	COUNTY COOK	TOTAL SHEETS 164	SHEET NO. 123
CONTRACT NO. 61H93				
ILLINOIS FED. AID PROJECT				

SHEET OF SHEETS STA. TO STA.



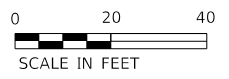
- NOTES:
1. TEMPORARY LIGHTING FROM SHERMAN AVE TO THE WEST SHALL UTILIZE 80W, 3000K FIXTURES WITH SHIELDS.
 2. TEMPORARY LIGHTING FROM SHERMAN AVE TO THE EAST SHALL UTILIZE 173W, 3000K FIXTURES.

TEMPORARY LIGHTING AND REMOVAL PLAN

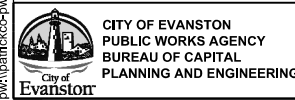


- NOTES:
1. INSTALL NEW LIGHT POLE ON EXISTING FOUNDATION.
 2. THE LIGHTING WILL NEED TO BE INSTALLED ACCORDING TO THE MOST GENERAL NOTES AND SEQUENCING. THIS MEANS THAT SOME LIGHTING MAY NEED TO TEMPORARILY BE CONNECTED UNTIL THE NEW LIGHTING CAN BE INSTALLED.

PROPOSED LIGHTING PLAN



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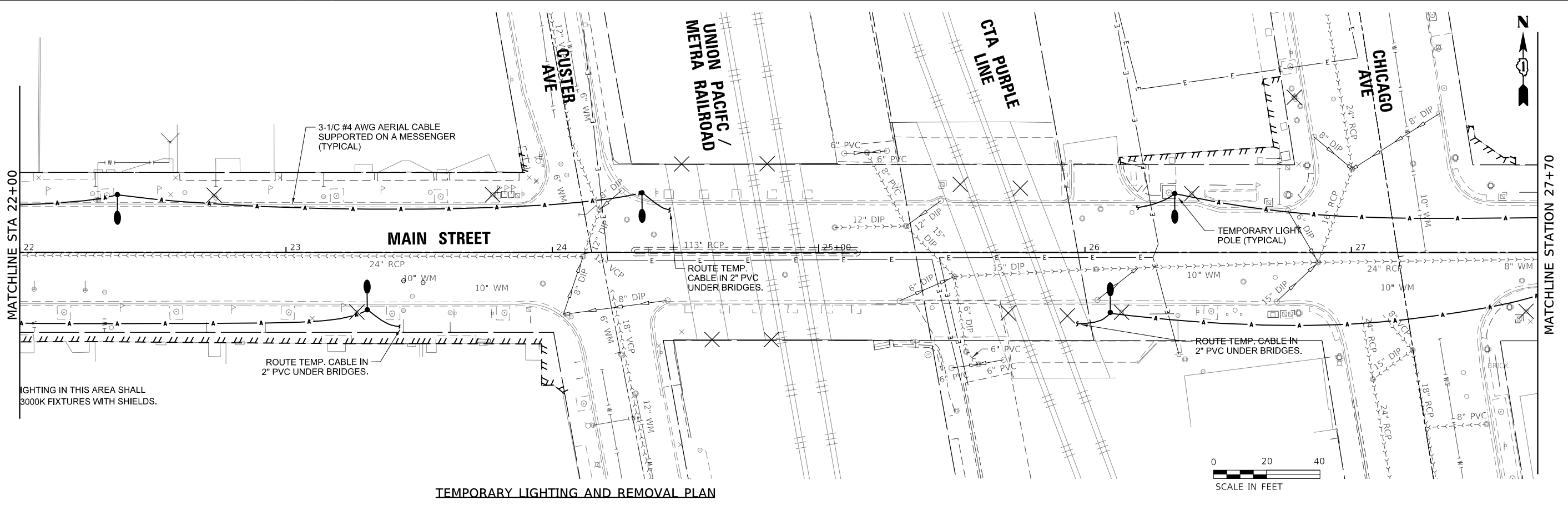
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	DATE - 1/6/23	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

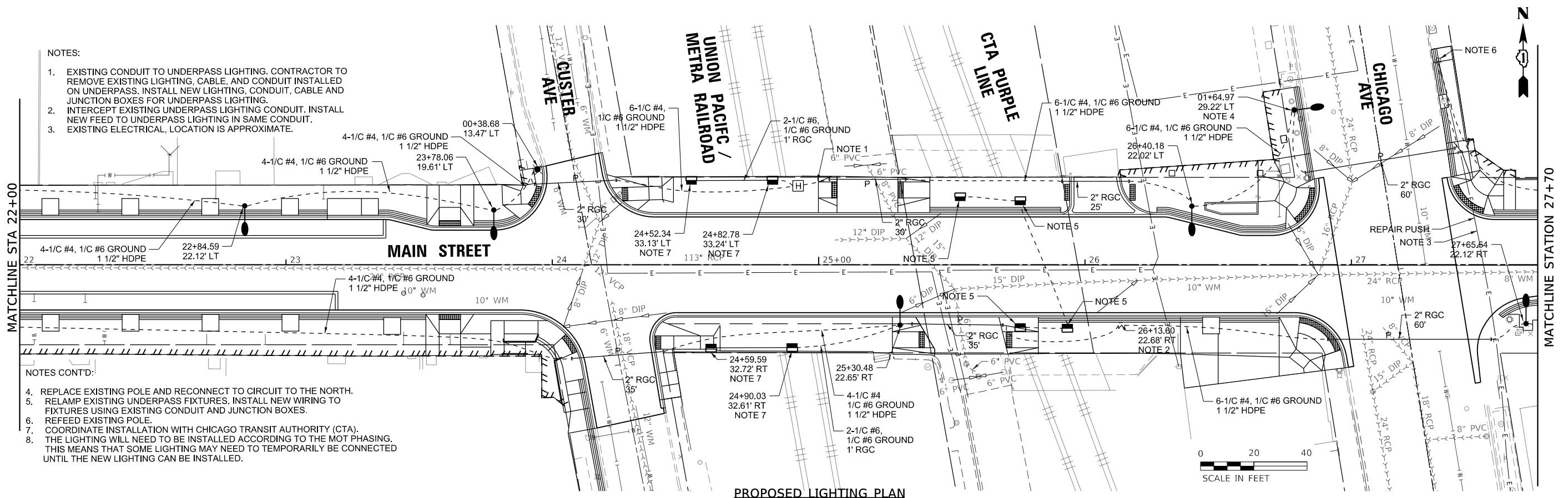
MAIN STREET IMPROVEMENTS
PROPOSED LIGHTING PLAN STA 16+50 - STA 22+00

SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1329	19-00283-00-PV	COOK	164	124
			CONTRACT NO. 61H93	
		ILLINOIS	FED. AID PROJECT	



TEMPORARY LIGHTING AND REMOVAL PLAN



PROPOSED LIGHTING PLAN

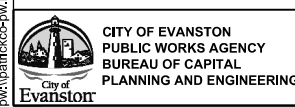
NOTES:

- EXISTING CONDUIT TO UNDERPASS LIGHTING. CONTRACTOR TO REMOVE EXISTING LIGHTING, CABLE, AND CONDUIT INSTALLED ON UNDERPASS. INSTALL NEW LIGHTING, CONDUIT, CABLE AND JUNCTION BOXES FOR UNDERPASS LIGHTING.
- INTERCEPT EXISTING UNDERPASS LIGHTING CONDUIT. INSTALL NEW FEED TO UNDERPASS LIGHTING IN SAME CONDUIT.
- EXISTING ELECTRICAL, LOCATION IS APPROXIMATE.

NOTES CONT'D:

- REPLACE EXISTING POLE AND RECONNECT TO CIRCUIT TO THE NORTH.
- RELAMP EXISTING UNDERPASS FIXTURES. INSTALL NEW WIRING TO FIXTURES USING EXISTING CONDUIT AND JUNCTION BOXES.
- REFEED EXISTING POLE.
- COORDINATE INSTALLATION WITH CHICAGO TRANSIT AUTHORITY (CTA).
- THE LIGHTING WILL NEED TO BE INSTALLED ACCORDING TO THE MOT PHASING. THIS MEANS THAT SOME LIGHTING MAY NEED TO TEMPORARILY BE CONNECTED UNTIL THE NEW LIGHTING CAN BE INSTALLED.

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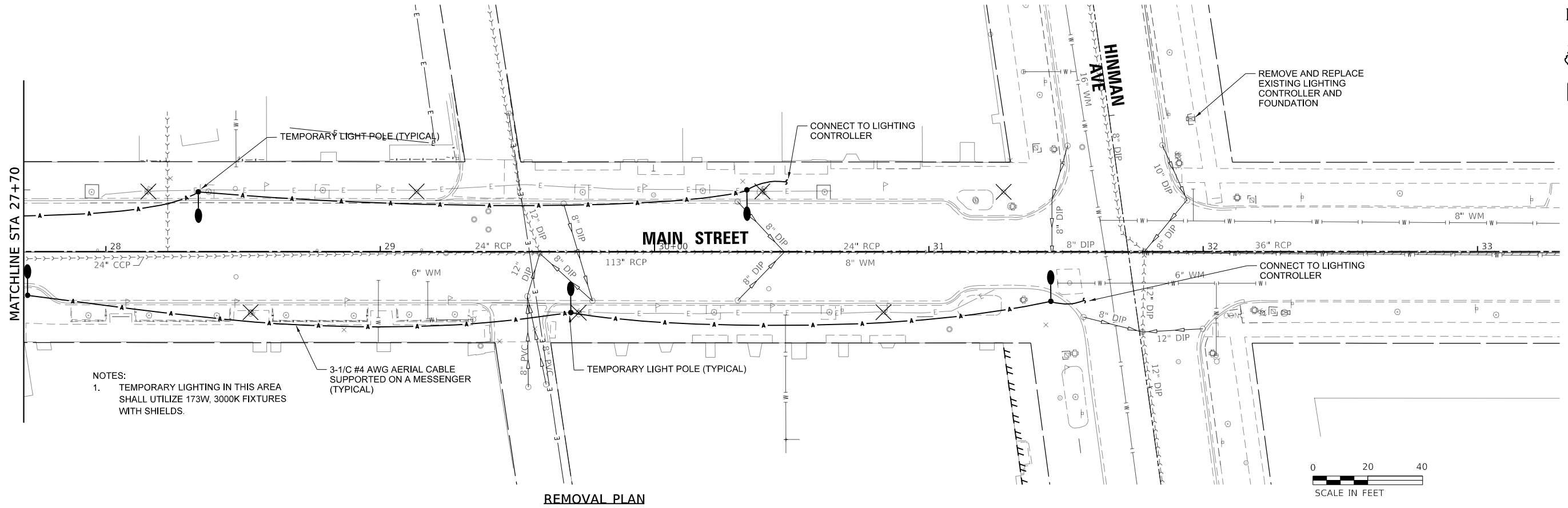
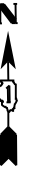
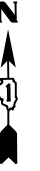
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

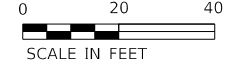
MAIN STREET IMPROVEMENTS
PROPOSED LIGHTING PLAN STA 22+00 - STA 27+70

SHEET OF SHEETS STA. TO STA.

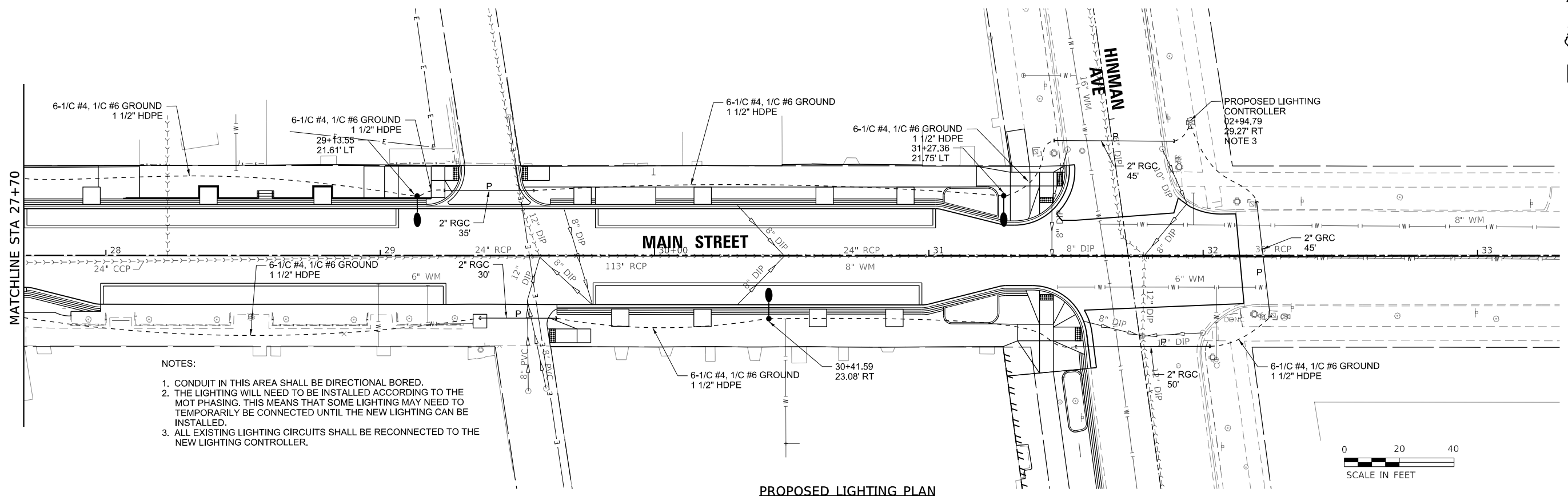
F.A.U. RTE. 1329	SECTION 19-00283-00-PV	COUNTY COOK	TOTAL SHEETS 164	SHEET NO. 125
CONTRACT NO. 61H93				
ILLINOIS FED. AID PROJECT				



NOTES:
 1. TEMPORARY LIGHTING IN THIS AREA SHALL UTILIZE 173W, 3000K FIXTURES WITH SHIELDS.



REMOVAL PLAN

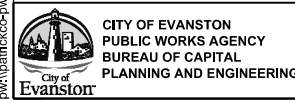


NOTES:
 1. CONDUIT IN THIS AREA SHALL BE DIRECTIONAL BORED.
 2. THE LIGHTING WILL NEED TO BE INSTALLED ACCORDING TO THE MOT PHASING. THIS MEANS THAT SOME LIGHTING MAY NEED TO TEMPORARILY BE CONNECTED UNTIL THE NEW LIGHTING CAN BE INSTALLED.
 3. ALL EXISTING LIGHTING CIRCUITS SHALL BE RECONNECTED TO THE NEW LIGHTING CONTROLLER.



PROPOSED LIGHTING PLAN

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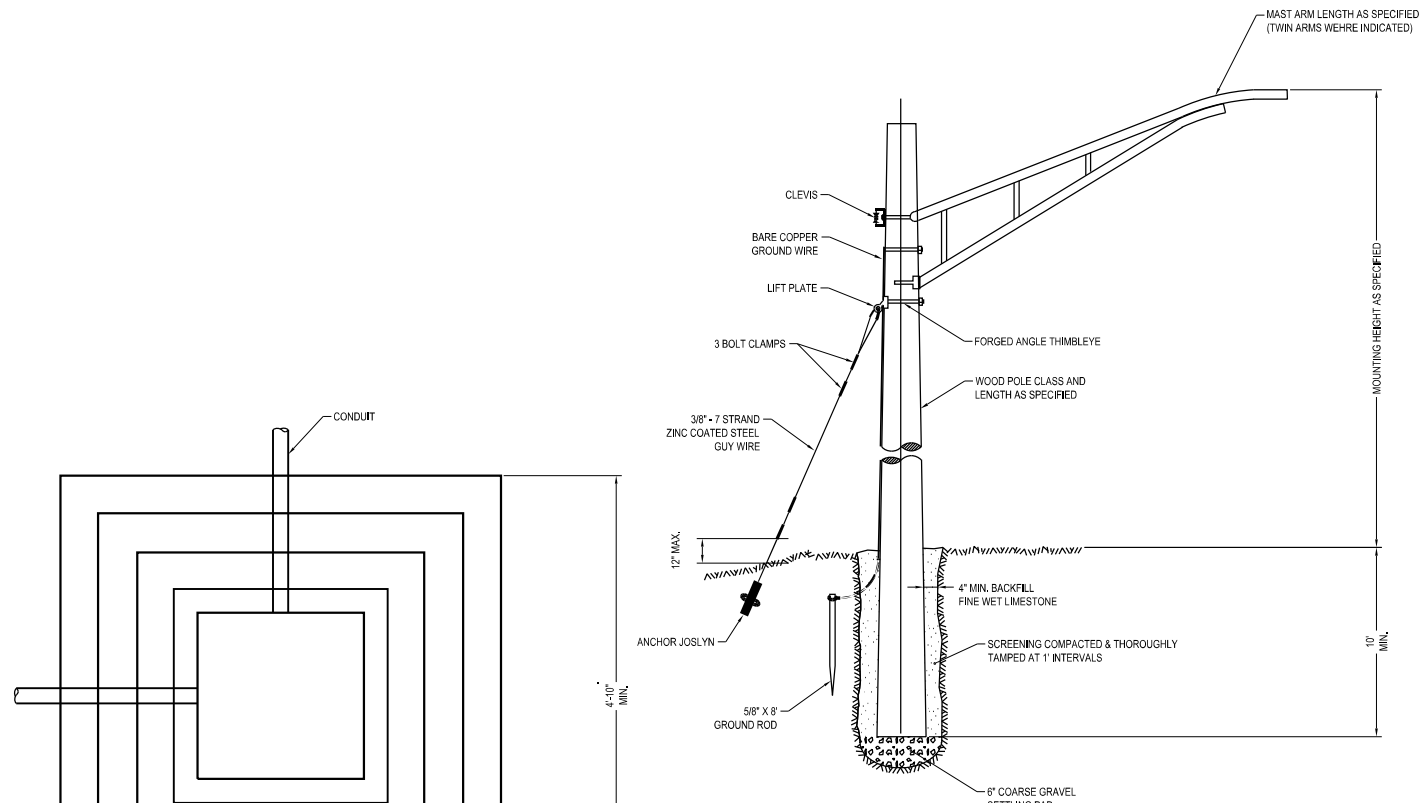
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PLOT DATE = 1/6/2023	CHECKED - CH	REVISED -
	DATE - 1/6/23	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

MAIN STREET IMPROVEMENTS
 PROPOSED LIGHTING PLAN STA 27+70 - STA 32+13.39

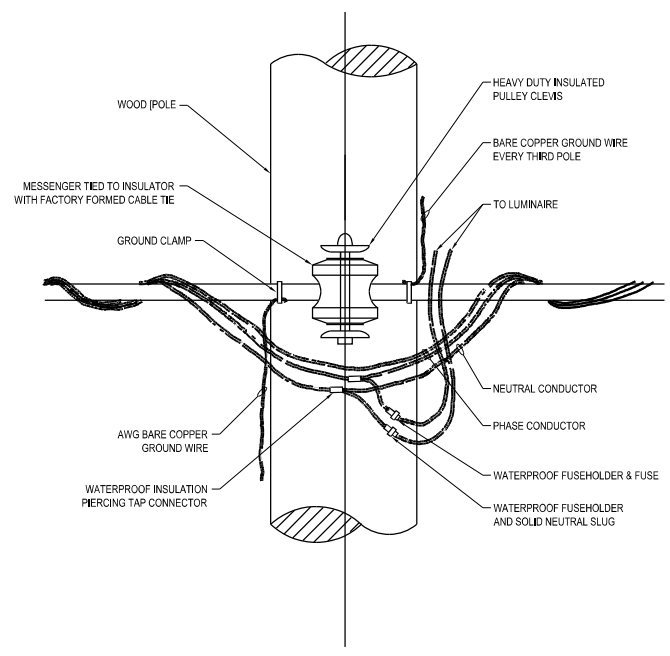
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CONTRACT NO. 61H93				
		ILLINOIS	FED. AID PROJECT	

SHEET OF SHEETS STA. TO STA.



TEMPORARY LIGHT POLE DETAIL

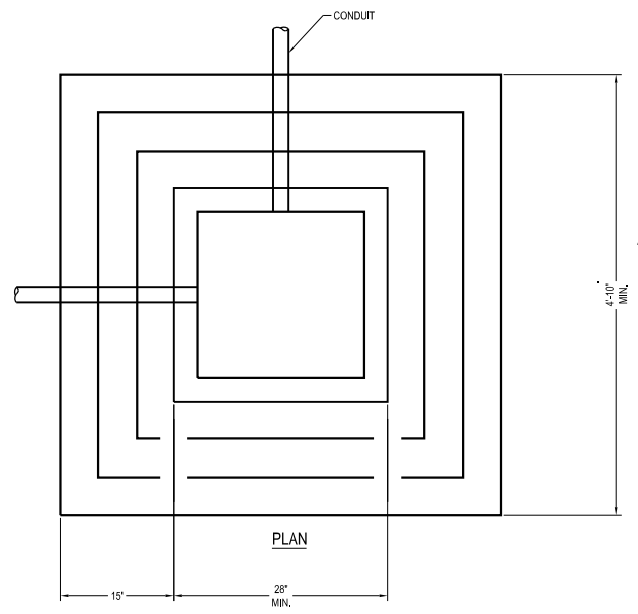
NOTE:
MAST ARM SHALL BE RATED FOR THE SPECIFIED MOUNTING HEIGHT.



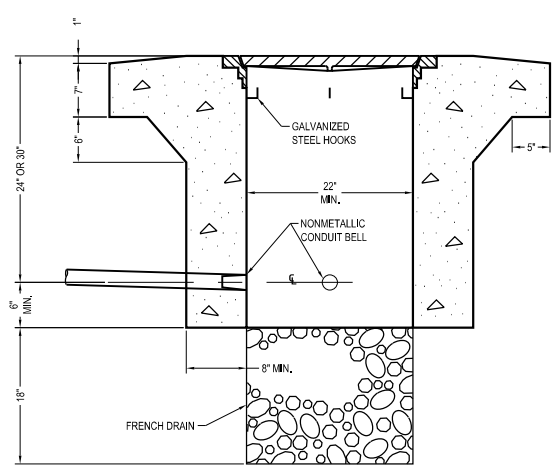
TEMPORARY LIGHT POLE ATTACHMENT DETAIL

LIGHT POLE MOUNTING HEIGHT	BOLT CIRCLE DIAMETER	METAL FOUNDATION		CONCRETE FOUNDATION		ANCHOR ROD LENGTH
		SHAFT DIAMETER	SHAFT DEPTH	SHAFT DIAMETER	SHAFT DEPTH	
30' (9.1 m)	11 1/2 (292)	8 3/4 (220)	6 (1.83 m)	24 (300 x 300 x 25)	24 (610)	5'-0" (1.48 m)
31'-35' (9.4 m - 10.7 m)	11 1/2 (292)	8 3/4 (220)	6 (1.83 m)	12 x 12 x 1 (300 x 300 x 25)	24 (610)	5'-3" (1.60 m)
36'-40' (10.9 m - 12.2 m)	15 (381)	8 3/4 (220)	6 (1.83 m)	15 x 15 x 1 1/2 (375 x 375 x 31)	30 (762)	5'-9" (1.75 m)
41'-45' (12.5 m - 13.7 m)	15 (381)	8 3/4 (220)	6 (1.83 m)	15 x 15 x 1 1/2 (375 x 375 x 31)	30 (762)	6'-3" (1.90 m)
46'-50' (14.0 m - 15.2 m)	15 (381)	8 3/4 (220)	8 (2.44 m)	15 x 15 x 1 1/2 (375 x 375 x 31)	30 (762)	7'-0" (2.00 m)

① 8 3/4 x 8'-0" (220 x 2.44 m) FOR TWIN LUMINAIRES.
② BOLT CIRCLE DIAM. SHALL BE 17 (430) WHEN TRANSFORMER BASE IS USED.



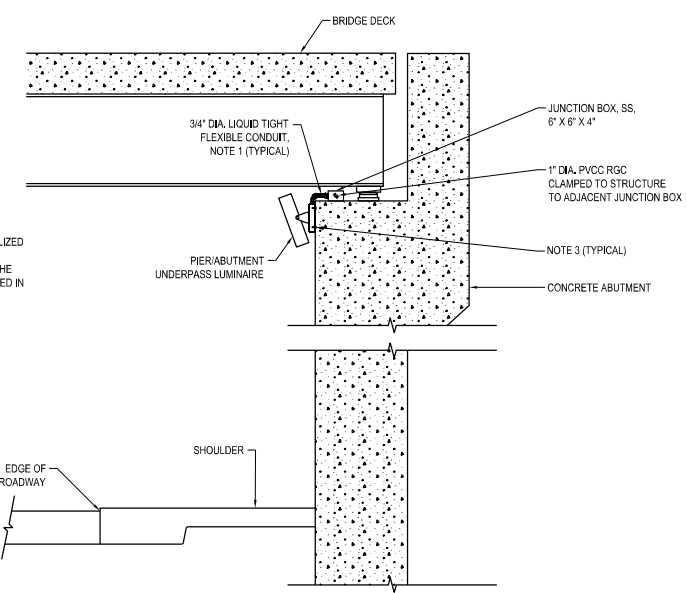
PLAN



ELEVATION

PORTLAND CEMENT CONCRETE
HEAVY DUTY HANDHOLE

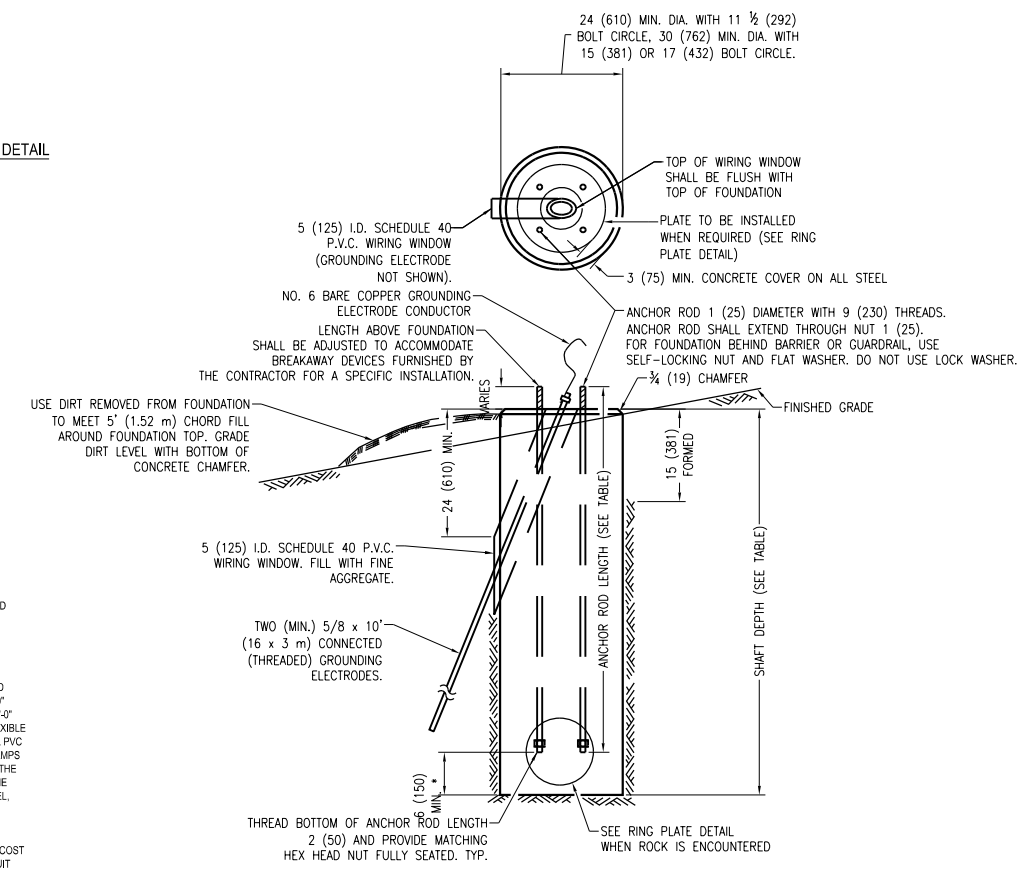
NOTE:
LUMINAIRE TILT SHALL BE AS UTILIZED IN THE APPROVED LUMINAIRE PHOTOMETRIC CALCULATIONS. THE TILT ANGLE MUST BE DOCUMENTED IN THE RECORD DRAWINGS.



UNDERPASS LIGHTING INSTALLATION DETAILS

NOTES:

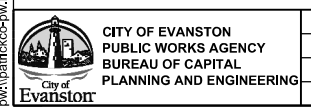
- LIQUID TIGHT FLEXIBLE METAL CONDUIT, MAXIMUM LENGTH 6'-0\"/>
- SEE UNDERPASS LIGHTING PLANS FOR INSTALLATION LOCATION OF UNDERPASS LIGHTING LUMINAIRES.
- UNDERPASS LUMINAIRE MOUNTED TO FACE OF PIER OR ABUTMENT WALL WITH 1/2\"/>
- EXPANSION ANCHOR, POWDER ACTUATED FASTENERS WILL NOT BE ALLOWED, EXPANSION ANCHOR MUST BE SIZED IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS.
- SECURE THE CONDUIT WITH PVC COATED CONDUIT BEAM CLAMS AS SHOWN AT 5'-0\"/>
- THE CONCRETE ENCASED CONDUIT TRANSITION SHALL BE INCLUDED IN THE COST OF THE GALVANIZED RIGID STEEL CONDUIT PAY ITEMS.
- ALL CONDUIT ATTACHED TO STRUCTURE SHALL BE PVC COATED RIGID STEEL CONDUIT (PVCC RIG) TYPICAL.



CONCRETE FOUNDATION

IF THE REQUIRED ANCHOR ROD LENGTH ABOVE TOP OF FOUNDATION IS LESS THAN 3 (75), ANCHOR RODS MAY BE LOWERED BELOW 6 (150).

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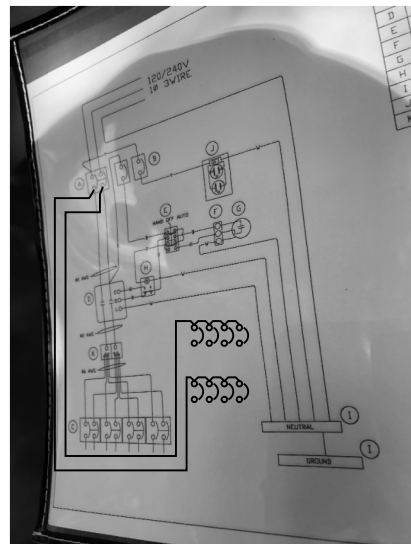
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	DATE - 1/6/23	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

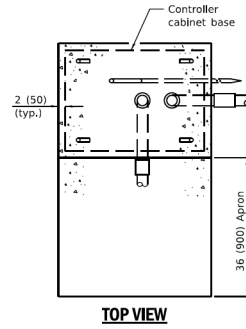
MAIN STREET IMPROVEMENTS
LIGHTING DETAILS

SHEET OF SHEETS STA. TO STA.

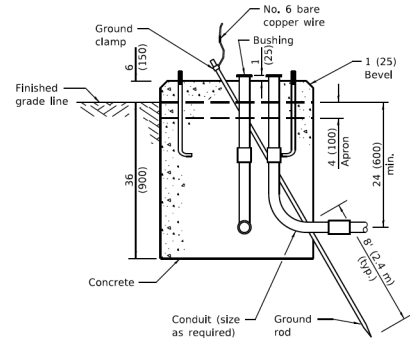
F.A.U. RTE. 1329	SECTION 19-00283-00-PV	COUNTY COOK	TOTAL SHEETS 164	SHEET NO. 127
CONTRACT NO. 61H93				
ILLINOIS FED. AID PROJECT				



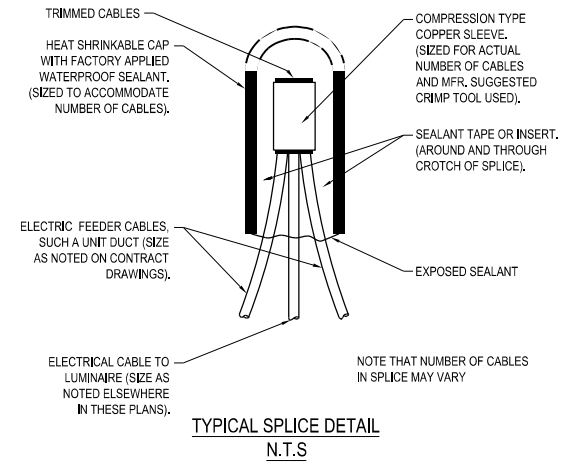
RIDGE AVENUE CONTROLLER



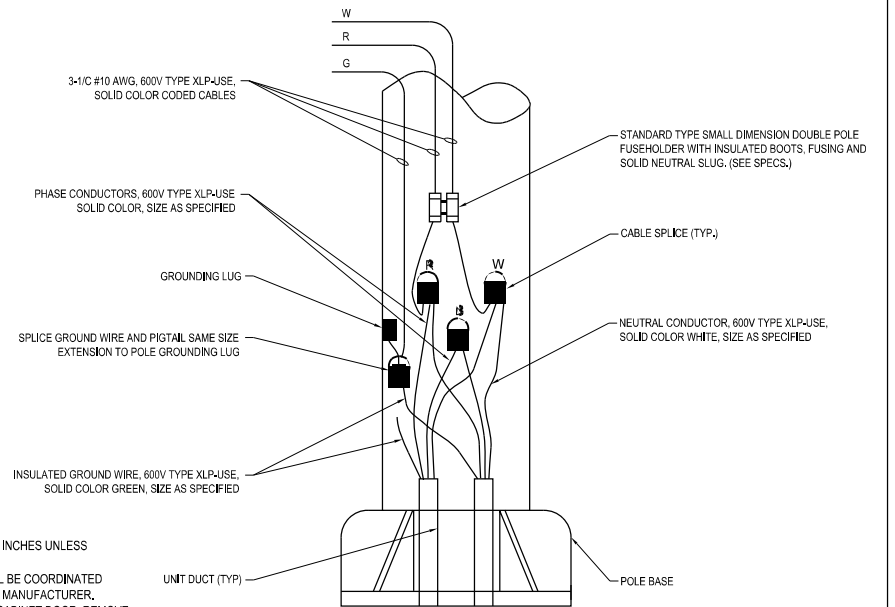
TOP VIEW



TYPE D FOR GROUND MOUNTED CONTROLLER CABINET



TYPICAL SPLICE DETAIL N.T.S

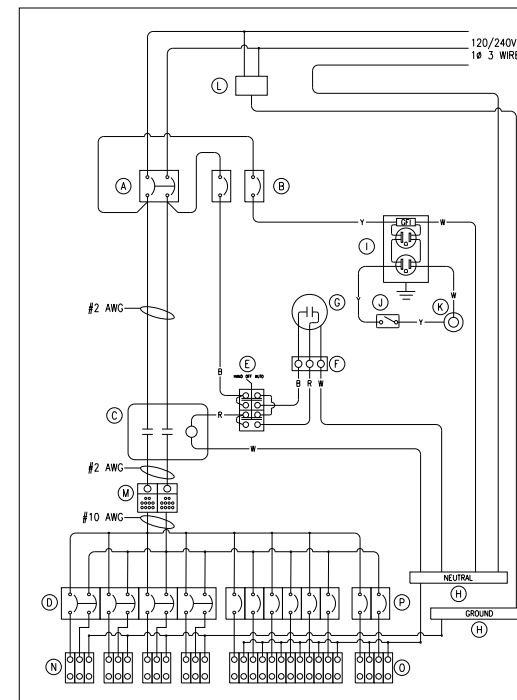


POLE WIRING DETAILS N.T.S

NOTES:

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

TYPICAL WIRING IN TRENCH DETAIL N.T.S

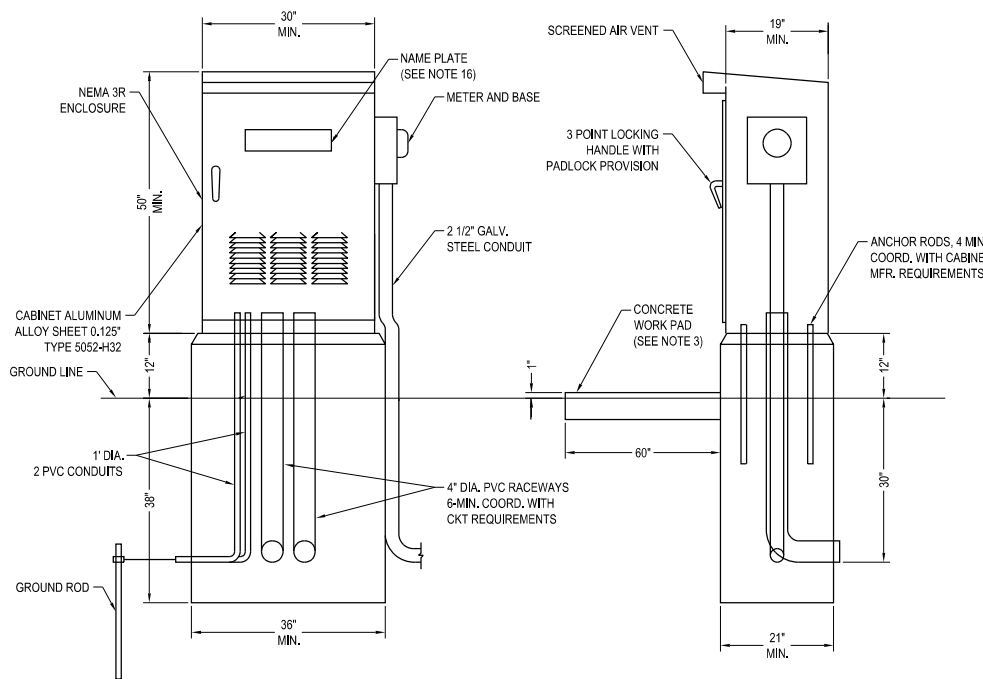


CABINET CONTROLLER WIRING DIAGRAMS

ITEM	QTY	DESCRIPTION
A	1	2P, 100A, 480V, THERMAL MAGNETIC MAIN BREAKER
B	2	1P, 15A, 240V THERMAL MAGNETIC CONTROL/AUX BREAKER
C	1	2P, 100A, 120V CONTACTOR, ELECTRICALLY HELD
D	4	2P, 20A, 240V THERMAL MAGNETIC BRANCH BREAKER
E	1	10A, 240V, 1 PUSH-BUTTON 1 NO + 1 NC H.O.A. SWITCH, FULLY-ENCLOSED
F	1	PANEL-MOUNT, 3 POINT TERMINAL BLOCK WITH BARRIERS, 2 ROWS, 14 AWG, 240V, 20A
G	1	120VAC, TUNGSTEN RATING 2000W, BALLAST LOAD 1000VA, FLUSH MOUNT PROTECT, THERMOSTAT FLUSH MOUNT, SPST BIMETALLIC SWITCH, POLYCARBONATE HOUSING
H	2	12" X 1" X 1/4" GROUND/NEUTRAL BUS, COPPER
I	1	20A GFCI RECEPTACLE, 125VAC WITH MOUNTING BOX
J	1	SPST SWITCH, 20A, 120-277VAC, #10 WIRE
K	1	120V, 150W MAX LIGHT FIXTURE, UL 1598 FOR WET, NON-HAZARDOUS LOCATIONS. DIE CAST CAGE AND CLEAR, THERMAL SHOCK RESISTANT GLASS
L	1	16KA, 120/240VAC, 1 PHASE, 3 WIRE, 25KA SCCR, NEMA 4X SURGE ARRESTER, 150V MCOV
M	2	250A DISTRIBUTION BLOCK, COPPER, 11 LOAD CONNECTIONS, SCREW RETAINING COVER, 600V, 100KA SCCR, 1000VAC
N	4	3-POLE, 85A, 600VAC/DC, STEEL, TIN-PLATED SCREWS; DEAD-FRONT TERMINAL BLOCK; PHENOLIC BASE; ALUMINUM, TIN-PLATED CONNECTOR
O	8	2-POLE, 85A, 600VAC/DC, STEEL, TIN-PLATED SCREWS; DEAD-FRONT TERMINAL BLOCK; PHENOLIC BASE; ALUMINUM, TIN-PLATED CONNECTOR
P	8	1P, 20A, 240V THERMAL MAGNETIC CONTROL/AUX BREAKER

NOTES:

- ALL POWER WIRING SHALL BE RHH/RHW
- ALL CONTROL WIRING SHALL BE #12 MTW
- WIRE COLORS:
BL = BLUE
W = WHITE
B = BLACK
R = RED
Y = YELLOW
G = GREEN



LIGHTING CONTROLLER SINGLE DOOR

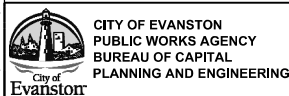
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

MAIN STREET IMPROVEMENTS LIGHTING DETAILS

SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1329	19-00283-00-PV	COOK	164	128
CONTRACT NO. 61H93				
ILLINOIS FED. AID PROJECT				

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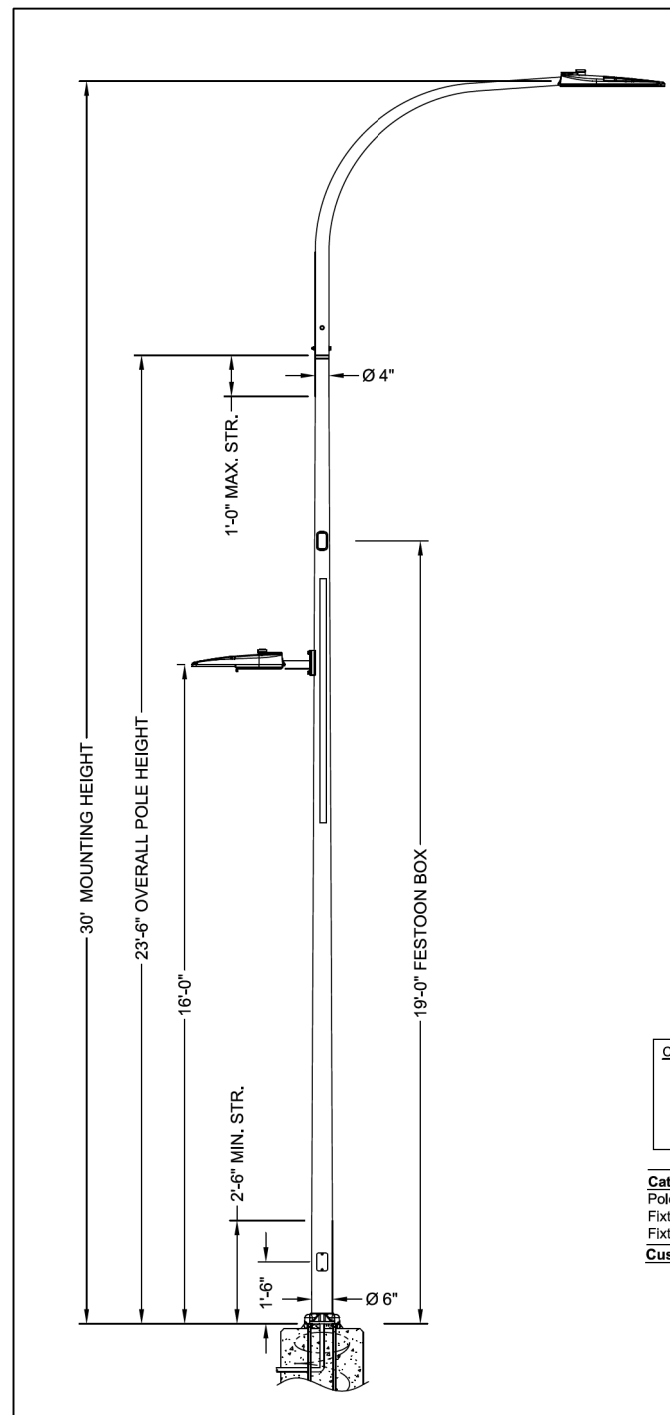


CITY OF EVANSTON
PUBLIC WORKS AGENCY
BUREAU OF CAPITAL
PLANNING AND ENGINEERING

USER NAME = mschilling
DESIGNED - LA
DRAWN - LA
CHECKED - CH
DATE - 1/6/23

REVISED -
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REVISED -
REVISED -

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Round Tapered Pole

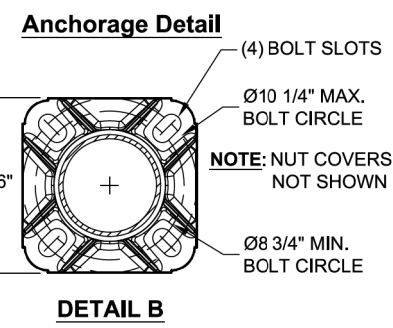
Aluminum, Davit Arm, Vibration Dampener
Side Mount Bracket @270°
Festoon Box
Finish: Black
Anchor Bolts

Autobahn LED Roadway - Large (ATB2)

60B Chips, 850mA Driver
Multi-Volt (120-277V)
Roadway Type III
Finish-Black
NEMA Label
Shorting Cap

Autobahn LED Roadway - Small (ATB0)

20B Chips, 525mA Driver
Multi-Volt (120-277V)
Roadway Type II
Finish-Black, Terminal Block (Standard)
3 Pin NEMA Photocontrol Receptacle (Standard)
Shorting Cap



CUSTOMER NOTES:
1. STANDARD SPECS NOT SHOWN HERE CAN BE FOUND ON SEPARATE CUT SHEETS (PLEASE SEE SALES).
2. ANCHORAGE DETAIL PROVIDED FOR VISUAL ONLY - DO NOT USE TO SET ANCHOR BOLTS.
3. SIGNED APPROVAL TO ACCOMPANY PO.

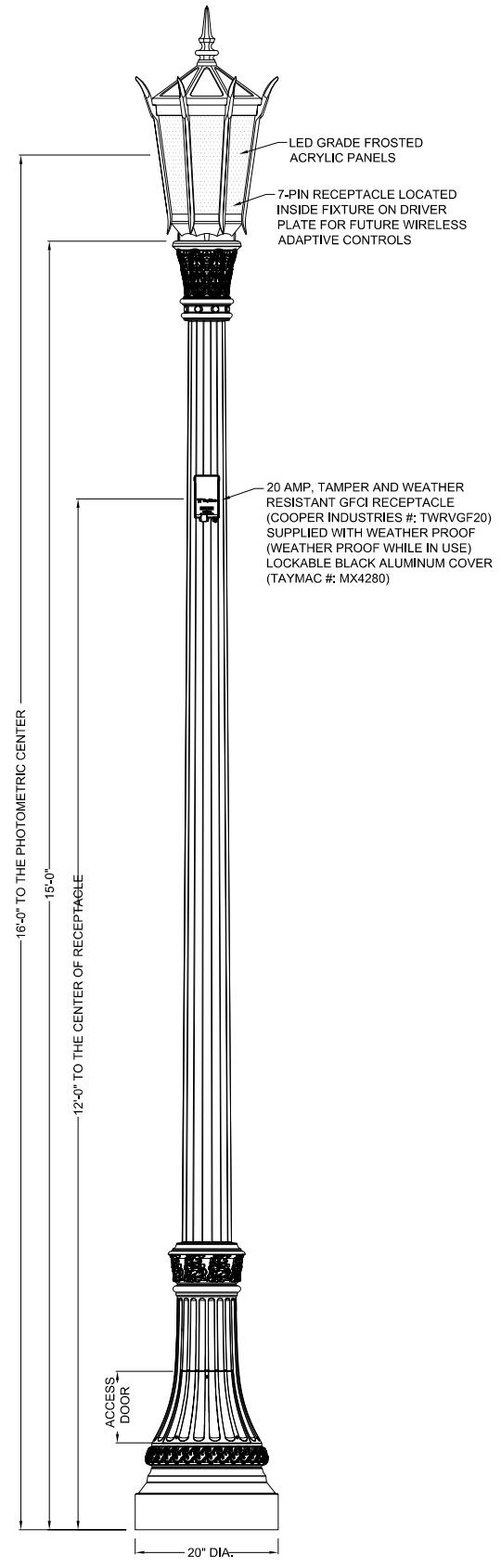
Catalog #'s:
Pole: RTA30RFD201894
Fixture#1: ATB260BLEDE95MVOLTR3BKNSH
Fixture#2: ATB020BLEDE53MVOLTR2BKSH
Customer Signature _____ **Date** _____

City of Evanston Main Street Evanston, Illinois



ORDER #: 2392-21-11471	TYPE:	DRAWING #:
REVISION:	REVISION DATE:	
DRAWN: JSE	ORIGIN DATE: 3/3/2021	PAGE: 1 of 1

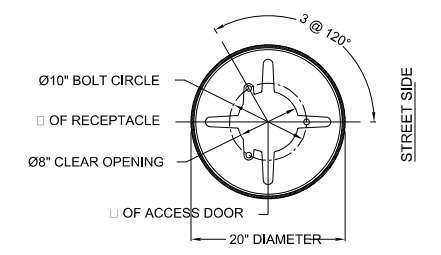
THIS DRAWING, WHEN APPROVED, SHALL BECOME THE COMPLETE SPECIFICATION FOR THE MATERIAL TO BE FURNISHED BY HOLOPHANE ON THE ORDER NOTED ABOVE. A UNIT OF SIMILAR DESIGN MAY BE SUPPLIED, BUT ONLY AFTER APPROVAL BY THE CUSTOMER IN WRITING. ON POLE ORDERS AN ANCHOR BOLT TEMPLATE PRINT WILL BE SUPPLIED WITH EACH ANCHOR BOLT ORDER TO MATCH THE POLE PROVIDED. THIS PRINT IS THE PROPERTY OF HOLOPHANE AND IS LOANED SUBJECT TO RETURN UPON DEMAND AND UPON EXPRESS CONDITION THAT IT WILL NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO OUR INTERESTS, AND ONLY IN CONNECTION WITH MATERIAL FURNISHED BY HOLOPHANE.



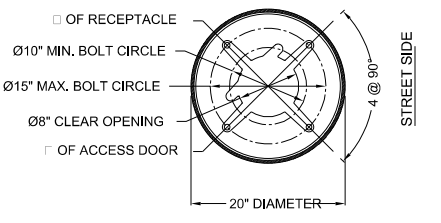
LUMINAIRE SPECIFICATIONS:
STYLE: EDGEWATER (LARGE FITTER)
HEIGHT: 32 3/4"
WIDTH: 20" OCTAGONAL
MATERIAL: CAST ALUMINUM ALLOY ANSI 356 PER A.S.T.M. B26-95
FINISH: POWDER COAT: RIVER TEXTURE GLOSS BLACK
LAMPING: 80 WATT LED SYSTEM
VOLTAGE: ELECTRONIC WIRE AT 120-277 VOLTS
COLOR TEMP.: 3000K (WARM WHITE)
DISTRIBUTION: TYPE III (ASYMMETRIC DISTRIBUTION)
REFRACTIVE OPTICS
PANELS: LED GRADE FROSTED ACRYLIC
MODIFIER: 7-PIN RECEPTACLE LOCATED ON DRIVER PLATE FOR FUTURE WIRELESS ADAPTIVE CONTROLS
CATALOG NO.: ALMEDL-LE080/EVX/X2-30-CR3-YPLF-FED-TR7R-CU

LAMP POST SPECIFICATIONS:
STYLE: TALLMADGE
HEIGHT: 15'-0"
PHOTOMETRIC CENTER: 16'-0"
BASE: 20" DIAMETER
MATERIAL: ONE-PIECE, CAST DUCTILE IRON PER A536-84 GRADE 65-45-12
FINISH: POWDER COAT - RIVER TEXTURE GLOSS BLACK
ACCESS DOOR: LOCATED IN BASE SECURED WITH TAMPER PROOF HEX SOCKET SECURITY MACHINE SCREWS
GROUND PROVISIONS: DRILL AND TAP INSIDE WALL OF BASE OPPOSITE ACCESS DOOR TO ACCOMMODATE A 1/4"-20 GROUND STUD (STUD SUPPLIED BY OTHERS)
TENON: 7" DIA. X 3/4" HIGH (TO ACCOMMODATE LUMINAIRE)
CATALOG NO.: DPSTMD-20-15.00-TN7.00/0.75-GFWI-CU

QUANTITY 1 COMPLETE UNIT REQUIRED
PER S.O. #: 019545

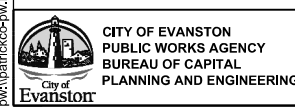


BASE PLATE DETAIL A
FOR THREE BOLT PATTERN APPLICATIONS



BASE PLATE DETAIL B
FOR FOUR BOLT PATTERN APPLICATIONS

TALLMADGE LAMP POST DETAILS



USER NAME = nschilling	DESIGNED - LA	REVISED -
PLOT SCALE = 2.0000' / in.	DRAWN - LA	REVISED -
PLOT DATE = 1/6/2023	CHECKED - CH	REVISED -
	DATE - 1/6/23	REVISED -

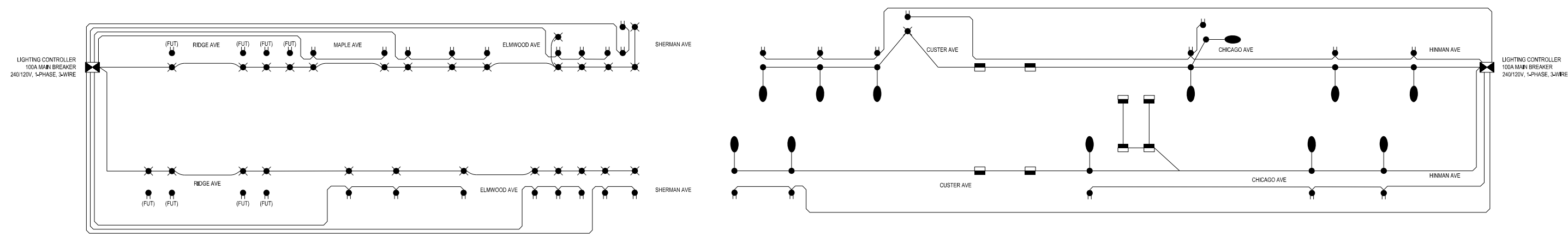
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION





MAIN STREET IMPROVEMENTS LIGHTING DETAILS

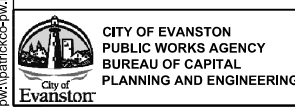
SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1329	19-00283-00-PV	COOK	164	129
CONTRACT NO. 61H93				
ILLINOIS FED. AID PROJECT				

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-  LIGHT POLE, 80W, TALLMAGE LED
-  LIGHT POLE W/ PEDESTRIAN LIGHT, 214W ROADWAY FIXTURE, 70W PEDSTRIAN FKTURE, DAVIT ARM, HOLOPHANE
-  UNDERPASS LED LIGHT FIXTURE, 28W
-  POLE-MOUNTED RECEPTACLE



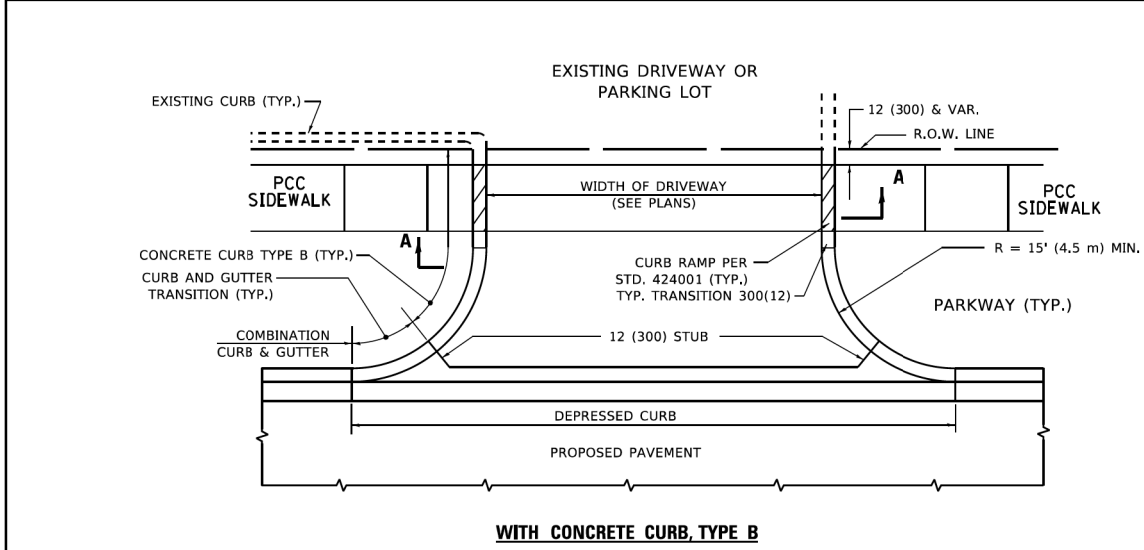
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	DRAWN - BAW	REVISED -
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PLOT DATE = 1/6/2023	DATE - 1/6/23	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

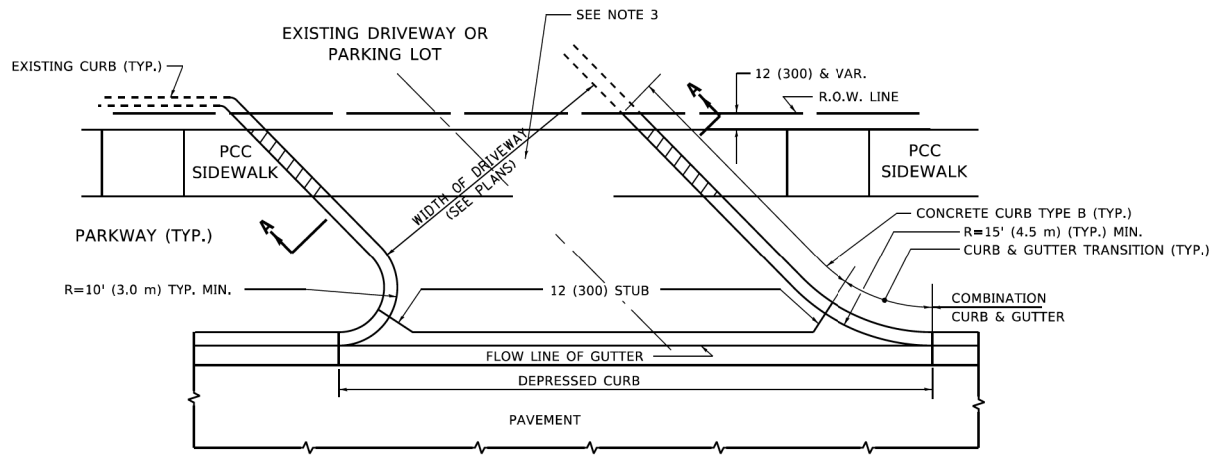
**MAIN STREET IMPROVEMENTS
LIGHTING DETAILS**

SHEET	OF	SHEETS	STA.	TO	STA.
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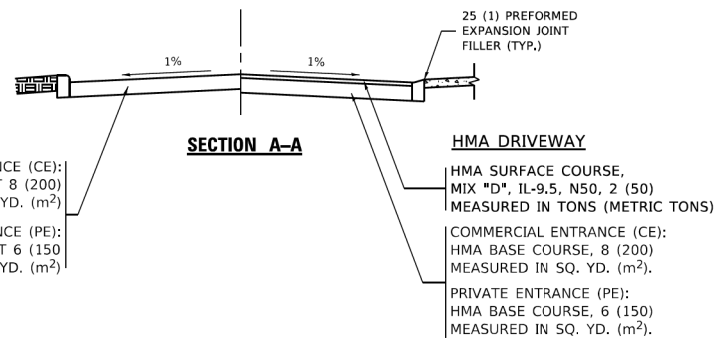
F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1329	19-00283-00-PV	COOK	164	130
CONTRACT NO. 61H93			ILLINOIS FED. AID PROJECT	



WITH CONCRETE CURB, TYPE B

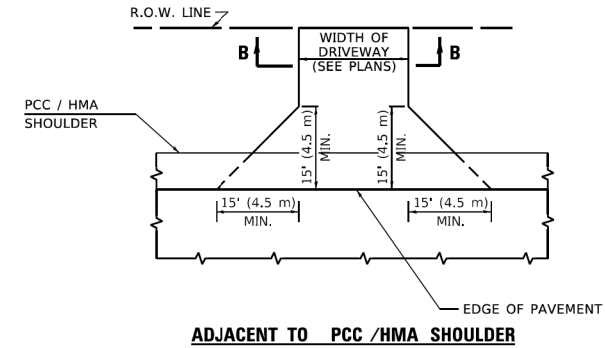


WITH CONCRETE CURB, TYPE B

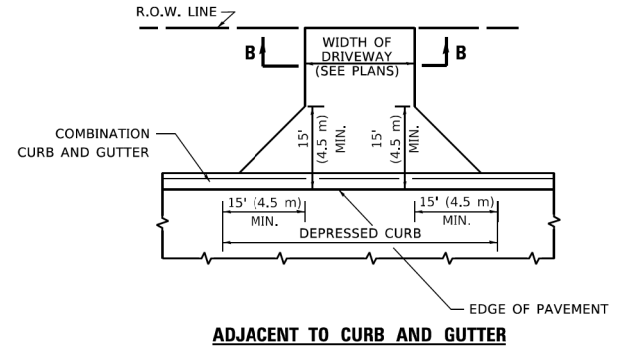


RIGID DRIVEWAY
 COMMERCIAL ENTRANCE (CE):
 PCC DRIVEWAY PAVEMENT 8 (200)
 MEASURED IN SQ. YD. (m²)
 PRIVATE ENTRANCE (PE):
 PCC DRIVEWAY PAVEMENT 6 (150)
 MEASURED IN SQ. YD. (m²)

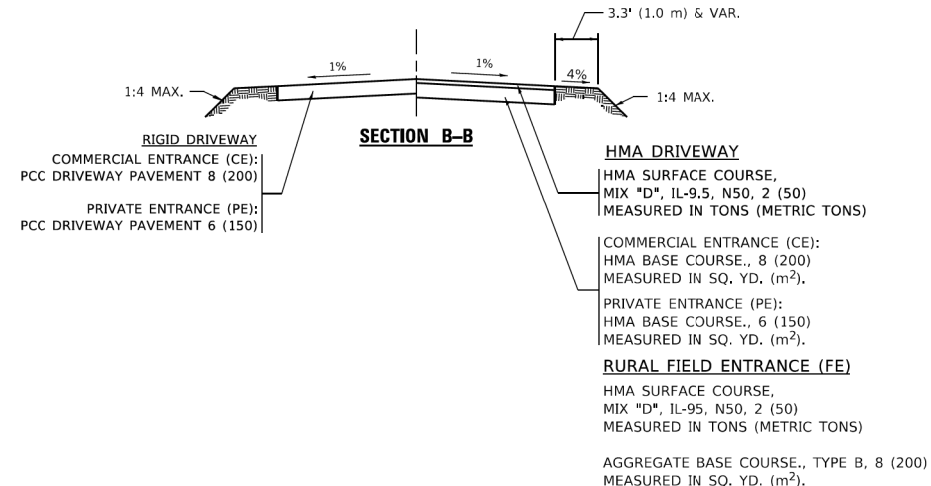
HMA DRIVEWAY
 HMA SURFACE COURSE,
 MIX "D", IL-9.5, N50, 2 (50)
 MEASURED IN TONS (METRIC TONS)
 COMMERCIAL ENTRANCE (CE):
 HMA BASE COURSE, 8 (200)
 MEASURED IN SQ. YD. (m²).
 PRIVATE ENTRANCE (PE):
 HMA BASE COURSE, 6 (150)
 MEASURED IN SQ. YD. (m²).



ADJACENT TO PCC/HMA SHOULDER



ADJACENT TO CURB AND GUTTER



GENERAL NOTES

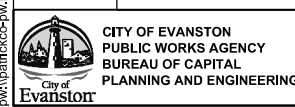
- DRIVEWAY SLOPES, LOCATIONS, & GEOMETRIC LAYOUT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "HANDBOOK FOR POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS". FOR FURTHER LAYOUT REQUIREMENTS, REFER TO ILLUSTRATIONS IN THE PERMIT HANDBOOK. DRIVEWAYS SHALL BE REPLACED IN KIND, UNLESS OTHERWISE NOTED ON THE PLANS.
- COMMERCIAL DRIVEWAYS SHALL BE CONSTRUCTED WITH CONCRETE CURB, TYPE B RETURNS EXCEPT WHEN THE SIDEWALK EDGE IS 4 FEET (1.2 METERS) OR LESS FROM THE BACK OF CURB, CONSTRUCT A FLARE DRIVEWAY WITHOUT CURB.

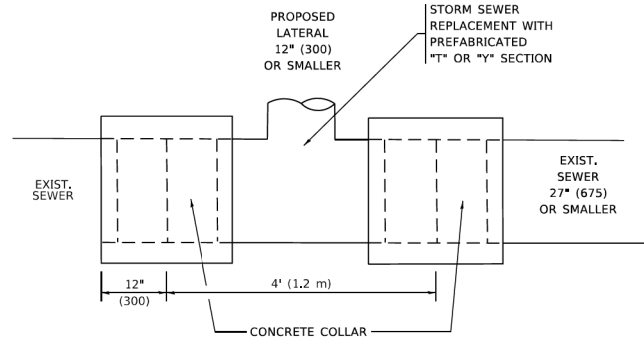
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE NOTED.

USER NAME = demanchelt	DESIGNED - R. SHAH	REVISED - R. BORO 06-11-08	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION				DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W. AND FACE OF CURB & EDGE OF SHOULDER ≥ 15'(4.5m)				F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT DATE = 2/2/2022	DATE - 11-04-95	REVISED - K. SMITH 08-28-19	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION				MAIN STREET IMPROVEMENTS IDOT DISTRICT 1 STANDARD DRAWINGS				F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		REVISED - K. SMITH 02-01-22									SCALE: NONE	SHEET	OF	SHEETS	STA.

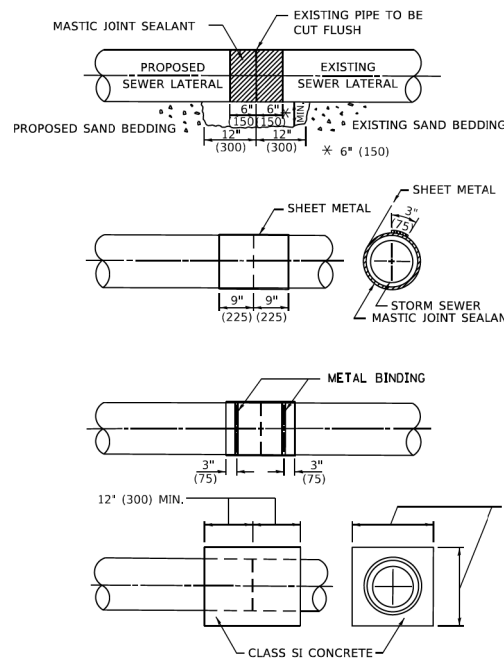
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PLOT SCALE = 40.0000' / in.	CHECKED - MD	REVISED -									SCALE: NONE	SHEET	OF	SHEETS	STA.
PLOT DATE = 1/6/2023	DATE - 1/6/23	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION				MAIN STREET IMPROVEMENTS IDOT DISTRICT 1 STANDARD DRAWINGS				CONTRACT NO. 61H93				
											ILLINOIS FED. AID PROJECT				

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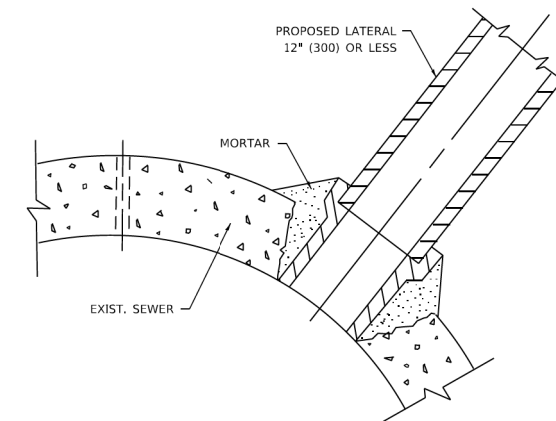




DETAIL "A"
LATERAL CONNECTION TO EXISTING SEWER
OF 27" (675) OR SMALLER



DETAIL "B"
CLASS SI CONCRETE COLLAR



DETAIL "C"
PROPOSED LATERAL
CONNECTION TO EXISTING SEWER
OF 30" (750) OR LARGER

CONSTRUCTION SEQUENCE

1. CUT THE EXISTING END OF THE PIPE SO AS TO PRESENT A FLUSH BUTT JOINT. BRUSH AND CLEAN ALL PIPES.
2. APPLY THE MASTIC JOINT SEALANT TO THE FIRST 6" (150) OF EACH PIPE.
3. BUTT THE PIPES TOGETHER LEAVING A MINIMUM OF 12' x 6" (300 x 150) DEEP EXCAVATION UNDER AND AROUND EACH PIPE END.
4. CUT A PIECE OF SHEET METAL GAGE NO. 19 1.1 (0.0418) 18" (450) WIDE BY THE OUTSIDE CIRCUMFERENCE OF THE PIPE PLUS 3" (75) LONG.
5. WRAP THE SHEET METAL AROUND THE PIPES, 9" (225) ON EACH SIDE OF THE JOINT, STARTING AT THE TOP OF THE PIPE.
6. LAP THE SHEET METAL AT LEAST 3" (75) AT THE TOP OF THE PIPE AND PLACE THE MASTIC JOINT SEALANT BETWEEN THE LAP.
7. PLACE TWO METAL BANDS AROUND THE SHEET METAL AND TIGHTEN.
8. WIPE OFF ANY EXCESS MASTIC JOINT SEALANT THAT OZZES OUT FROM BETWEEN THE SHEET METAL AND THE PIPES.
9. PLACE CLASS SI CONCRETE AROUND THE JOINT.

NOTES:

MATERIAL

MATERIAL USED FOR THE TEE OR WYE SECTION SHALL BE COMPATIBLE WITH THE EXISTING STORM SEWER OR THE PROPOSED STORM SEWER.

CONSTRUCTION METHODS

- I. THIS WORK SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE APPLICABLE PORTIONS OF SECTION 550 OF THE STANDARD SPECIFICATIONS.
- II. CONNECTION TO AN EXISTING STORM SEWER SHALL BE BY EITHER OF THE FOLLOWING METHODS:
 - A) PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 27" (675) OR SMALLER SEE DETAIL "A" AND "B".
 - B) PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 30" (750) OR LARGER SEE DETAIL "C".

IF THE EXISTING SEWER PIPE IS CRACKED, BROKEN OR OTHERWISE DAMAGED BY THE CONTRACTOR IN MAKING THE CIRCULAR OPENING, THE CONTRACTOR SHALL REPLACE THAT SECTION OF PIPE WITH PIPE EQUAL AND SIMILAR IN ALL RESPECTS TO THE PIPE IN THE EXISTING SEWER, IN A CAREFUL WORKMANLIKE MANNER, WITHOUT EXTRA COMPENSATION.

GENERAL

1. CARE MUST BE TAKEN TO PREVENT DEBRIS FROM ENTERING THE SEWER. ALL DEBRIS WHICH ENTERS THE SEWER MUST BE REMOVED. THE SEWER MUST BE LEFT CLEAN AND UNOBSTRUCTED UPON COMPLETION OF THE CONTRACT.
2. CARE MUST BE TAKEN TO PREVENT ANY PART OF THE NEW PIPE CONNECTION FROM PROJECTING INTO THE EXISTING SEWER.

BASIS OF PAYMENT

1. TEE OR WYE CONNECTIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR STORM SEWER TEE OR WYE OF THE TYPE AND SIZE SPECIFIED IN THE PLANS, THIS PRICE SHALL INCLUDE ALL EXCAVATION OF THE TRENCH, REMOVAL OF THE EXISTING STORM SEWER, FURNISHING AND INSTALLING THE SPECIFIED TEE OR WYE SECTION, FURNISHING AND INSTALLING THE REQUIRED CONCRETE COLLAR, AND ALL OTHER MATERIAL NECESSARY TO COMPLETE THIS WORK AS SHOWN AND SPECIFIED.
2. REMOVAL AND REINSTALLATION OF EXISTING STORM SEWER ADJACENT TO THE PROPOSED TEE OR WYE SECTION, FOR THE PURPOSE OF FACILITATING THE INSTALLATION OF THE TEE OR WYE SECTION, WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE WORK.
3. TRENCH BACKFILL, EXCAVATION IN ROCK AND REMOVAL AND REPLACEMENT OF UNSUITABLE MATERIAL BELOW PLAN BEDDING GRADE WILL BE PAID FOR SEPARATELY.
4. CONCRETE COLLAR FOR CONNECTING A PROPOSED STORM SEWER TO AN EXISTING STORM SEWER WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE PROPOSED STORM SEWER.

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

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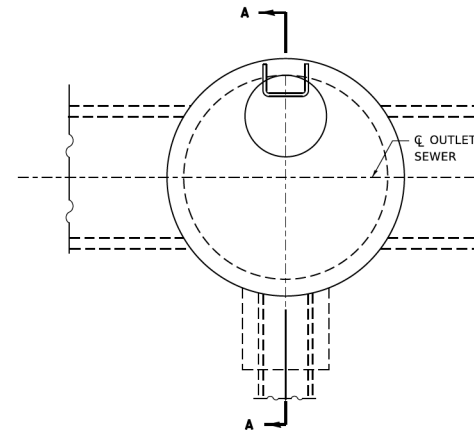
USER NAME = demanchelt	DESIGNED - M. DE YONG	REVISED - R. SHAH 09-09-94	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		DETAIL OF STORM SEWER CONNECTION TO EXISTING SEWER				F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED - R. SHAH 10-25-94			SCALE: NONE	SHEET 1	OF 1	SHEETS	STA.	TO STA.	BD500-01 (BD-07)	CONTRACT NO.		
PLOT DATE = 2/2/2022	DATE - 07-25-90	REVISED - R. SHAH 06-12-96									ILLINOIS	FED. AID PROJECT		
		REVISED - K. SMITH 02-01-22												

 CITY OF EVANSTON PUBLIC WORKS AGENCY BUREAU OF CAPITAL PLANNING AND ENGINEERING	USER NAME = mschilling	DESIGNED - ACN	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		MAIN STREET IMPROVEMENTS IDOT DISTRICT 1 STANDARD DRAWINGS				F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
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	PLOT DATE = 1/6/2023	DATE - 1/6/23	REVISED -													

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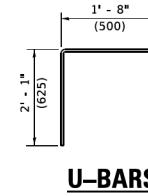
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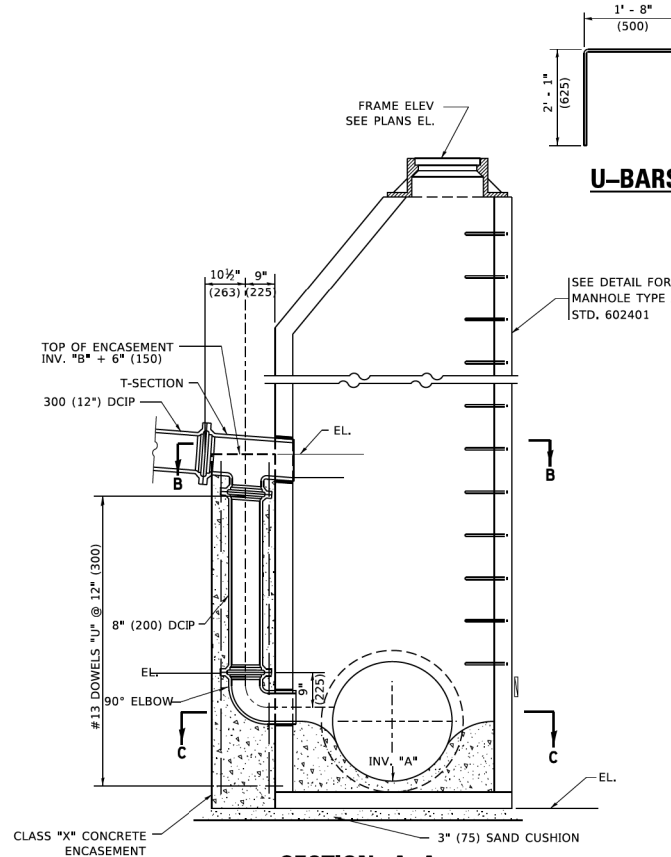


PLAN
FOR LOCATION SEE DRAINAGE PLANS

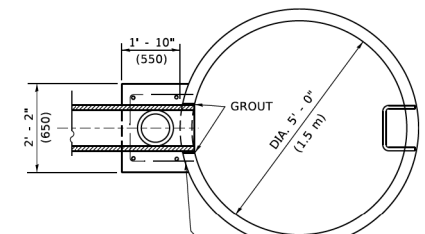
ENCASEMENT DETAILS			
DROP M.H. LOCATION STA., OFFSET			
INV. "A"			
INLET PIPE			
INV. "B"			
INV. "C"			
A			
B			
"V" BAR LENGTH			
NO. OF "U" BARS			
REINF. BARS			
CLASS "SI" CONC. CUBIC METER (CU. YD.)			



U-BARS

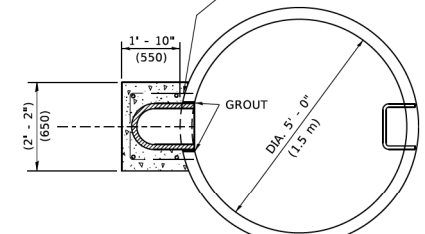


SECTION A-A



SECTION B-B

DRILL 1 1/4" (30) HOLE IN MANHOLE RISER WALLS, FILL WITH MORTAR AND INSERT DOWELS, (TYPICAL FOR ALL DOWELS)



SECTION C-C

- TYPE A1-1 MANHOLE WITH 1 DROP AND DEPTH UP TO 10' (3 m)
- TYPE A1-2 " " " " " " " " FROM 10' TO 15' (3 m TO 1.5 m)
- TYPE A1-3 " " " " " " " " FROM 15' TO 20' (1.5 m TO 6 m)
- TYPE A1-4 " " " " " " " " OVER 20' (6 m)
- TYPE A2-1 MANHOLE WITH 2 DROPS AND DEPTH UP TO 10' (3 m)
- TYPE A2-2 " " " " " " " " FROM 10' TO 15' (3 m TO 1.5 m)
- TYPE A2-3 " " " " " " " " FROM 15' TO 20' (1.5 m TO 6 m)
- TYPE A2-4 " " " " " " " " OVER 20' (6 m)

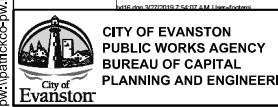
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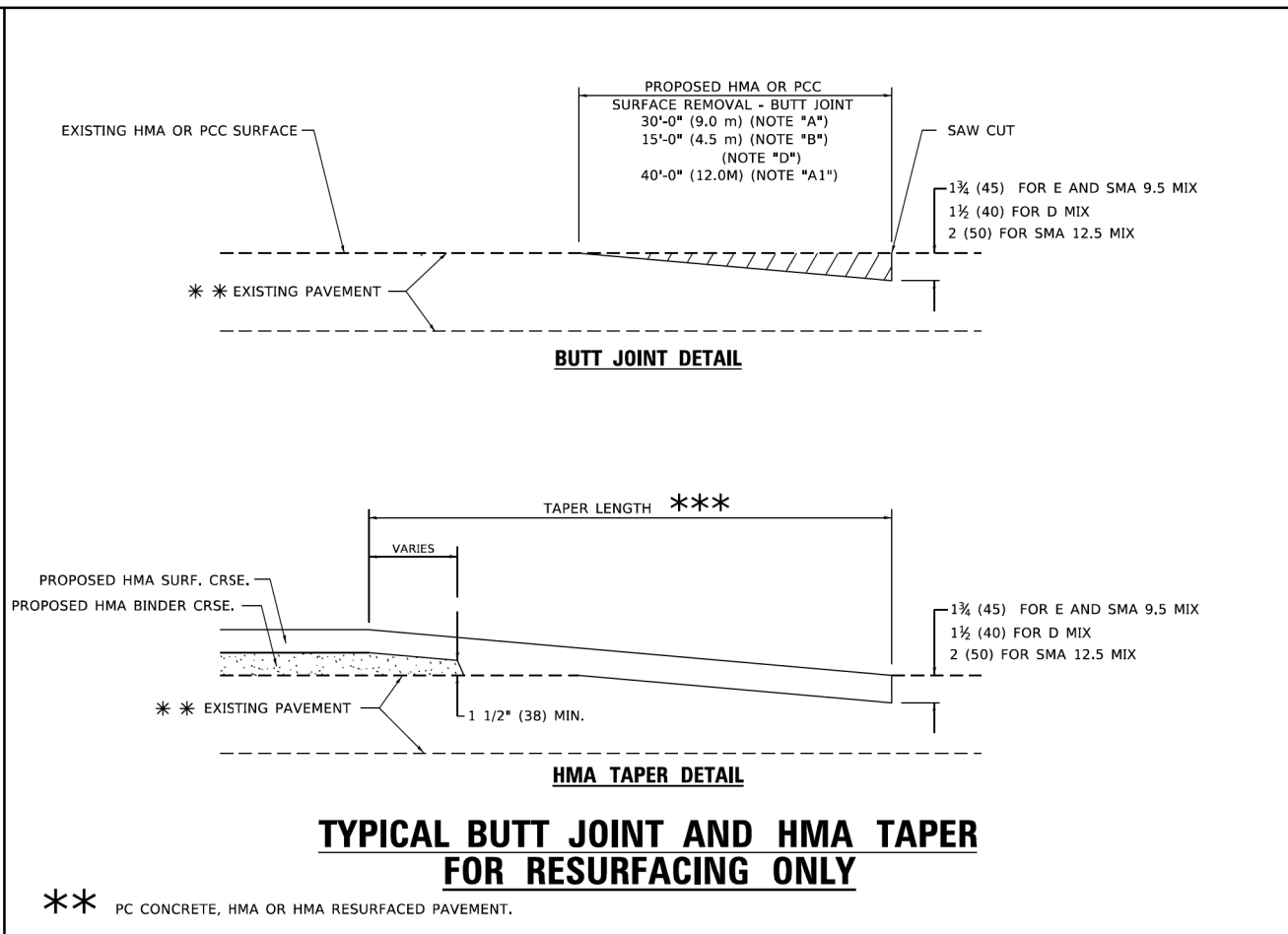
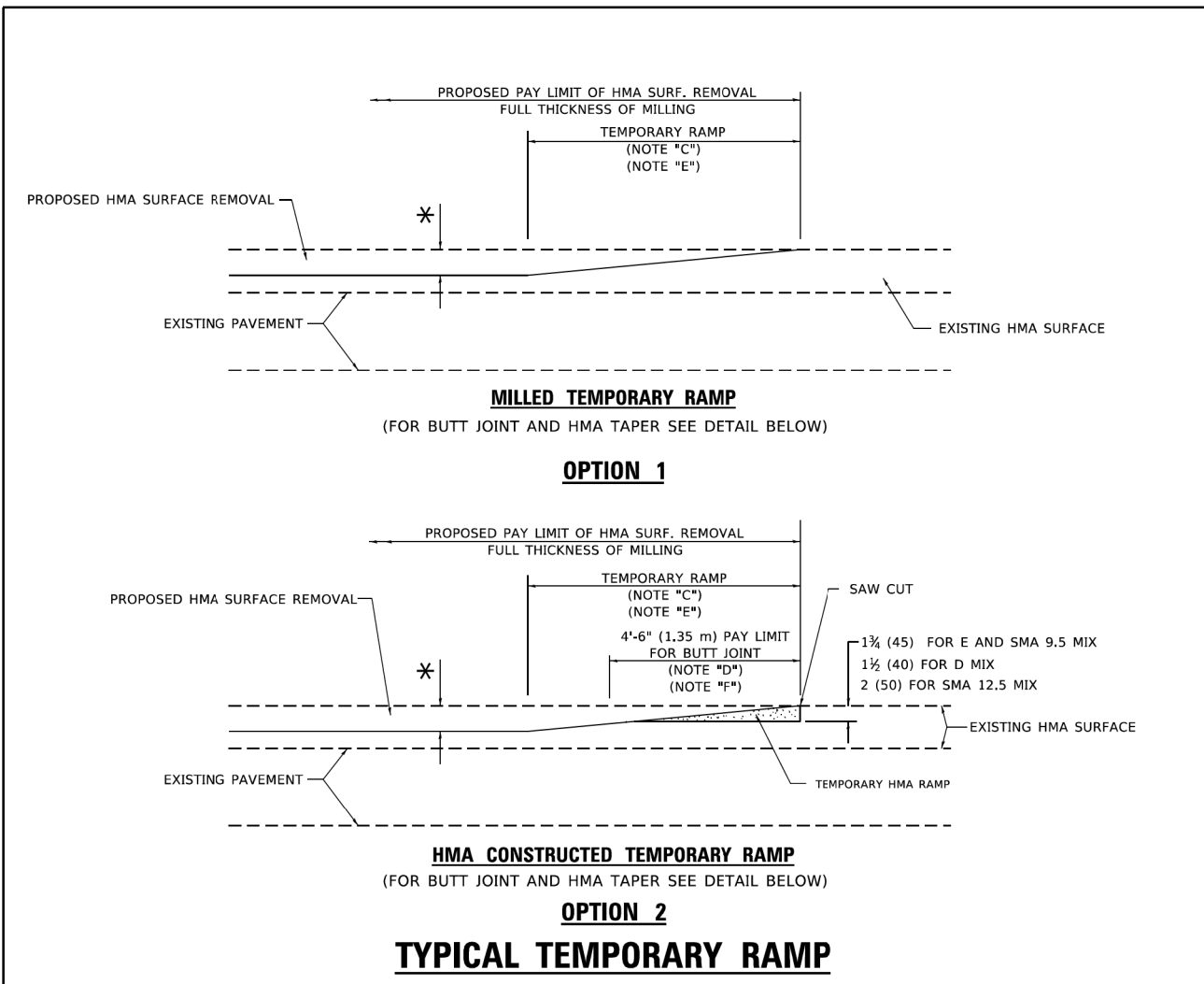
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PLOT DATE = 3/27/2019	CHECKED -	REVISED -
	DATE - 10-18-02	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		DROP MANHOLE DETAILS		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.		BD600-05	(BD-16)	CONTRACT NO.		
				ILLINOIS	FED. AID PROJECT			

USER NAME = nschilling	DESIGNED - ACN	REVISED -
PLOT SCALE = 40.0000' / in.	DRAWN - BAW	REVISED -
PLOT DATE = 1/6/2023	CHECKED - MD	REVISED -
	DATE - 1/6/23	REVISED -

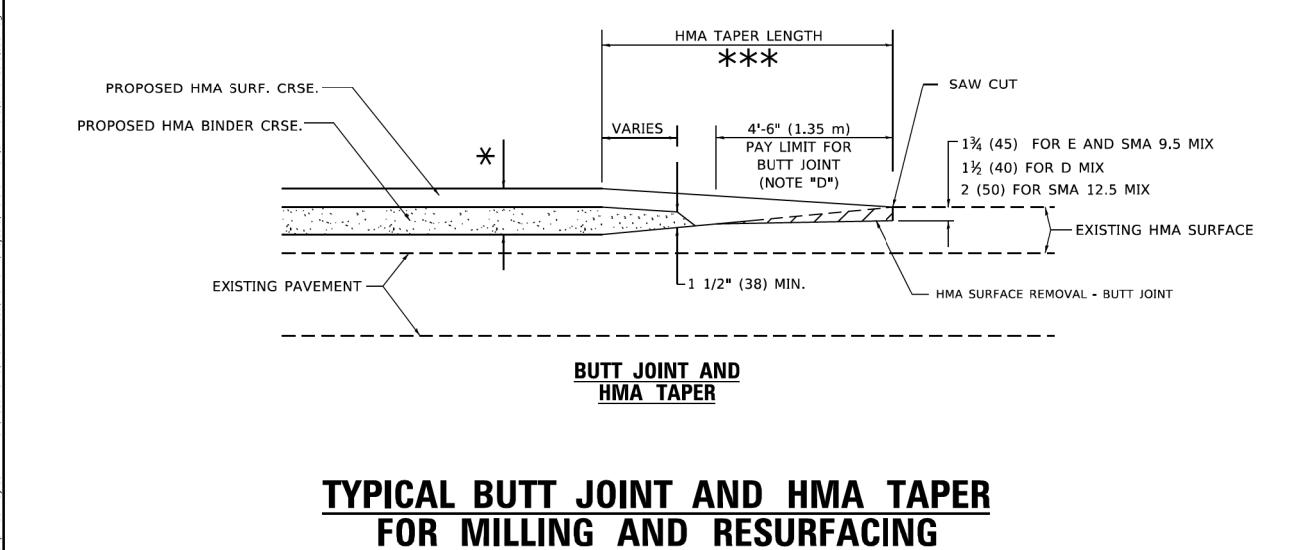
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		MAIN STREET IMPROVEMENTS IDOT DISTRICT 1 STANDARD DRAWINGS		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		SHEET OF SHEETS STA. TO STA.		1329	19-00283-00-PV	COOK	164	135
								CONTRACT NO. 61H93
				ILLINOIS	FED. AID PROJECT			





- GENERAL NOTES**
- MAINLINE ARTERIAL ROADWAYS AND MAJOR SIDE ROADS.
 - INTERSTATES
 - MINOR SIDE ROADS.
 - THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
 - THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
 - TAPER THE TEMP. RAMP AT A RATE OF 3' - 4" (1.02m) PER 1 INCH (25 mm) OF MILLING THICKNESS.
 - SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
 - SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
 - *** 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")
 - 10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")
- BASIS OF PAYMENT**
- THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT".
 - THE TEMPORARY RAMP AND SAW CUT SHALL BE INCLUDED IN THE UNIT COST FOR HMA OR PCC SURFACE REMOVAL-BUTT JOINT.

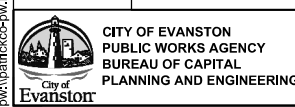
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.



USER NAME = Lawrence,DeManche	DESIGNED - M. DE YONG	REVISED - A. ABBAS 03-21-97	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BUTT JOINT AND HMA TAPER DETAILS		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 100.0000' / in.	DRAWN -	REVISED - M. GOMEZ 04-06-01		SCALE: NONE	SHEET 1 OF 1 SHEETS	STA. TO STA.	BD400-05	BD-32	CONTRACT NO.	
PLOT DATE = 11/18/2022	CHECKED -	REVISED - R. BORO 01-01-07					ILLINOIS	FED. AID PROJECT		
PLOT DATE = 11/18/2022	DATE - 06-13-90	REVISED - K. SMITH 11-18-22								

USER NAME = mschilling	DESIGNED - ACN	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAIN STREET IMPROVEMENTS IDOT DISTRICT 1 STANDARD DRAWINGS		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
PLOT SCALE = 40.0004' / in.	DRAWN - BAW	REVISED -		SCALE: NONE	SHEET OF SHEETS	STA. TO STA.	1329	19-00283-00-PV	COOK	164	138
PLOT DATE = 2/14/2023	CHECKED - MD	REVISED -							CONTRACT NO. 61H93		
PLOT DATE = 2/14/2023	DATE - 1/6/23	REVISED -									

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 PROJECT: 19-00283-00-PV
 SHEET: 138 OF 164
 DATE: 2/14/2023 10:58:11 AM
 USER: mschilling



FRAME EXTENSION INTO PAVEMENT	INNER HOOP REINFORCEMENT DIAMETER	SEMI CIRCULAR FORM DIAMETER	OUTER HOOP REINFORCEMENT DIAMETER
UP TO 8" (200)	3'-6" (1.1 m)	4'-0" (1.2 m)	5'-0" (1.5 m)
> 8" (200) TO 14" (360)	4'-0" (1.2 m)	4'-6" (1.4 m)	5'-0" (1.5 m)

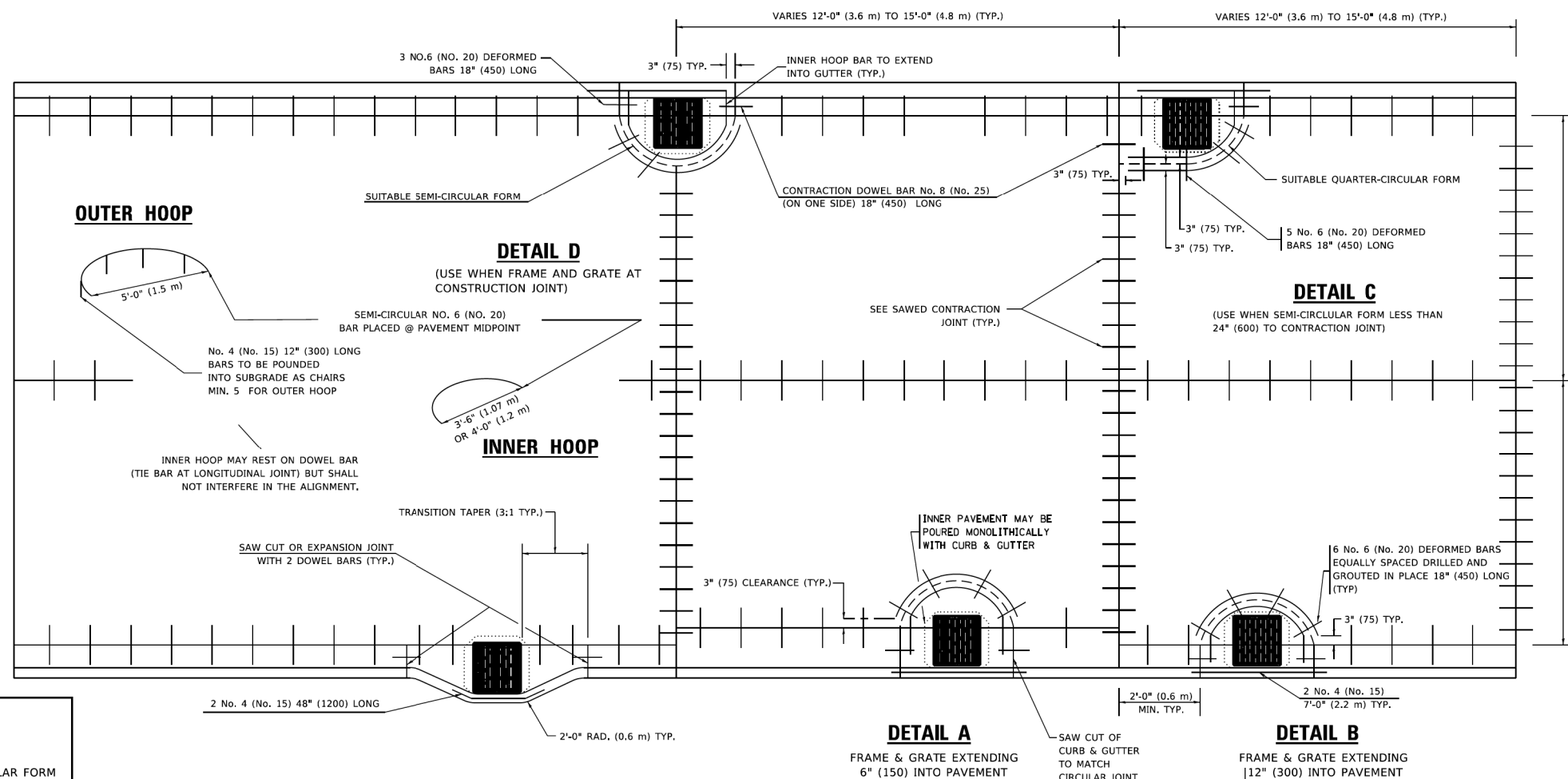
GENERAL NOTES

1. TRANSVERSE JOINTS MAY BE MOVED TO ACCOMMODATE ROUNDOUT. EDGE OF CIRCULAR JOINT SHALL BE MINIMUM 12" (300) FROM TRANSVERSE JOINT. RELOCATED TRANSVERSE JOINT SHALL BE CONTINUOUS FROM EDGE OF PAVEMENT TO EDGE OF PAVEMENT.
2. SEMI-CIRCULAR FORM SHALL BE REMOVED PRIOR TO DRILL AND GROUT OF TIE BARS.
3. ALL REINFORCED BARS SHALL BE EPOXY COATED.
4. DRILL AND GROUT IS PREFERRED, HOWEVER TIE BARS CAN BE POURED IN PLACE IF CLEARANCE IS PROVIDED TO OUTER EDGE OF FRAME. MINIMUM 2" (50) CLEARANCE.
5. WOOD SHIMS SHALL BE USED TO ADJUST ALL FRAMES. AFTER ADJUSTING MORTAR HAS CURED, THE WOOD SHIMS SHALL BE REMOVED AND THE VOIDS UNDER THE FRAMES FILLED WITH NON SHRINK GROUT.
6. HOOP REINFORCEMENT SHALL BE ONE PIECE CONSTRUCTION.
7. CIRCULAR FRAMES AND GRATES MAY BE SUBSTITUTED.
8. CURB DOWELS MUST BE PLACED LEVEL & TRUE TO ALLOW CONTRACTION MOVEMENT.

BASIS OF PAYMENT

1. THE ROUNDOUT AND ADDED REINFORCEMENT WILL NOT BE PAID SEPARATELY, BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE PAVEMENT.

DESIGNER NOTE
THIS DETAIL IS TO BE USED WHEN THE GUTTER FLAG IS LESS THAN 24"



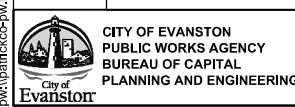
**TRANSITION CURB & AND GUTTER INTO PARKWAY
(PREFERRED BECAUSE PAVING OF MAINLINE NOT AFFECTED.)**

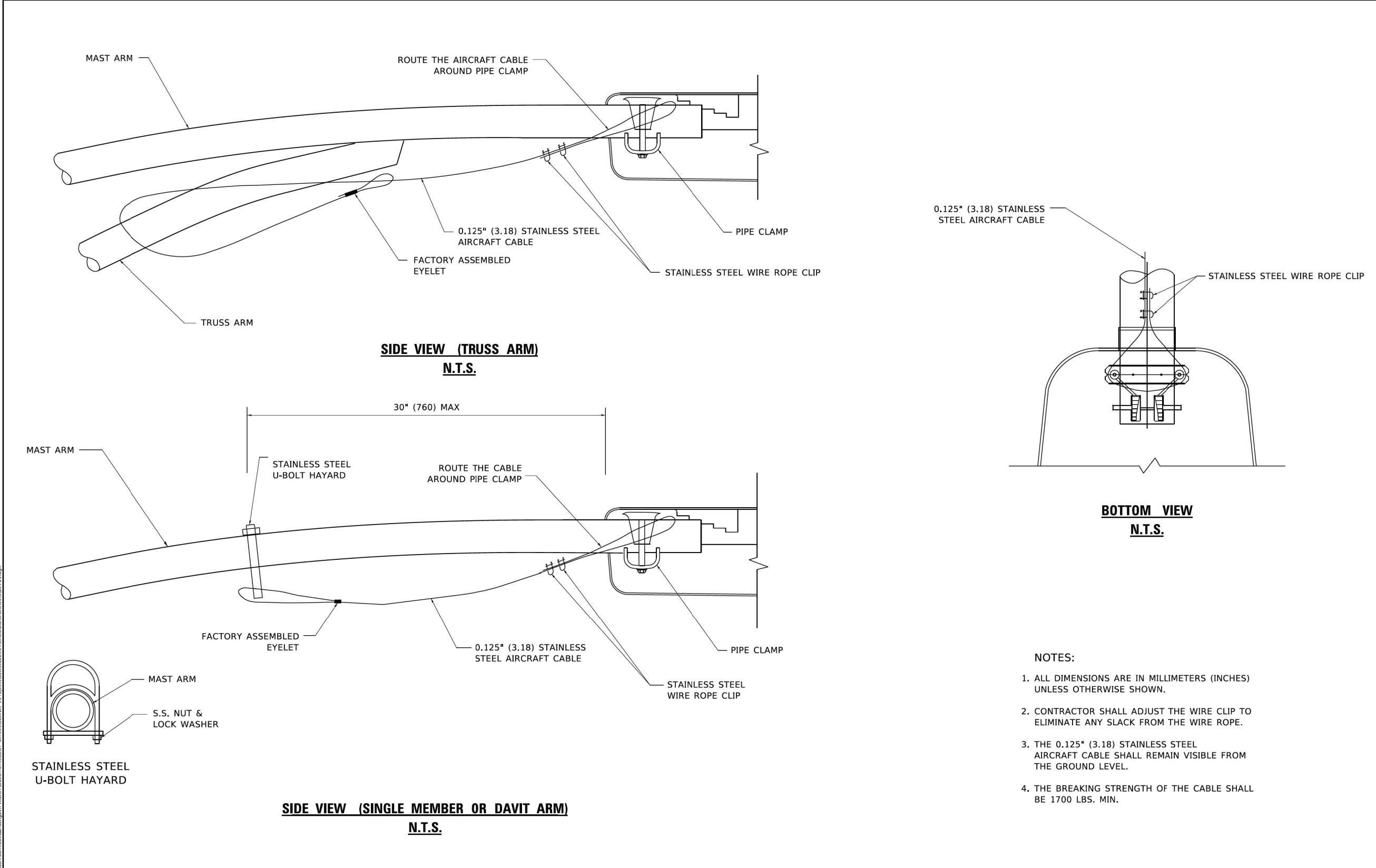
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE NOTED

USER NAME = Lawrence_DeManche	DESIGNED - A. ABBAS	REVISED - T. MATOUSEK 10-02-00	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PCC PAVEMENT ROUNDOUTS AT CURB AND GUTTER	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
PLOT SCALE = 100.0000' / in.	DRAWN - TOM MATOUSEK	REVISED - T. MATOUSEK 04-25-02			SCALE: NONE	SHEET 1 OF 1 SHEETS	STA. TO STA.	8D-48	CONTRACT NO.	ILLINOIS FED. AID PROJECT
PLOT DATE = 11/18/2022	CHECKED - A. ABBAS	REVISED - P. LAFLEUR 08-27-02								
	DATE - 01-04-99	REVISED - K. SMITH 11-18-22								

USER NAME = mschilling	DESIGNED - ACN	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAIN STREET IMPROVEMENTS IDOT DISTRICT 1 STANDARD DRAWINGS	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
PLOT SCALE = 40.0004' / in.	DRAWN - BAW	REVISED -			SCALE: NONE	SHEET OF SHEETS	STA. TO STA.	1329	19-00283-00-PV	COOK	164	139
PLOT DATE = 2/14/2023	CHECKED - MD	REVISED -										
	DATE - 1/6/23	REVISED -										

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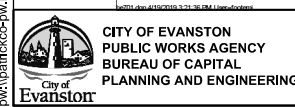


- NOTES:**
1. ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN.
 2. CONTRACTOR SHALL ADJUST THE WIRE CLIP TO ELIMINATE ANY SLACK FROM THE WIRE ROPE.
 3. THE 0.125" (3.18) STAINLESS STEEL AIRCRAFT CABLE SHALL REMAIN VISIBLE FROM THE GROUND LEVEL.
 4. THE BREAKING STRENGTH OF THE CABLE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

USER NAME = foote[m]	DESIGNED -	REVISED - 08-08-03	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LUMINAIRE SAFETY CABLE ASSEMBLY			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 50.0000' / in.	DRAWN -	REVISED -		SCALE: NONE	SHEET 1	OF 1 SHEETS	STA.	TO STA.	BE-701		CONTRACT NO.
PLOT DATE = 4/19/2019	CHECKED -	REVISED -		ILLINOIS FED. AID PROJECT							
	DATE -	REVISED -									

USER NAME = nschilling	DESIGNED - ACN	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAIN STREET IMPROVEMENTS IDOT DISTRICT 1 STANDARD DRAWINGS			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 40.0000' / in.	DRAWN - BAW	REVISED -		SHEET	OF	SHEETS	STA.	TO STA.	1329		CONTRACT NO. 61H93
PLOT DATE = 1/6/2023	CHECKED - MD	REVISED -		ILLINOIS FED. AID PROJECT							
	DATE - 1/6/23	REVISED -									

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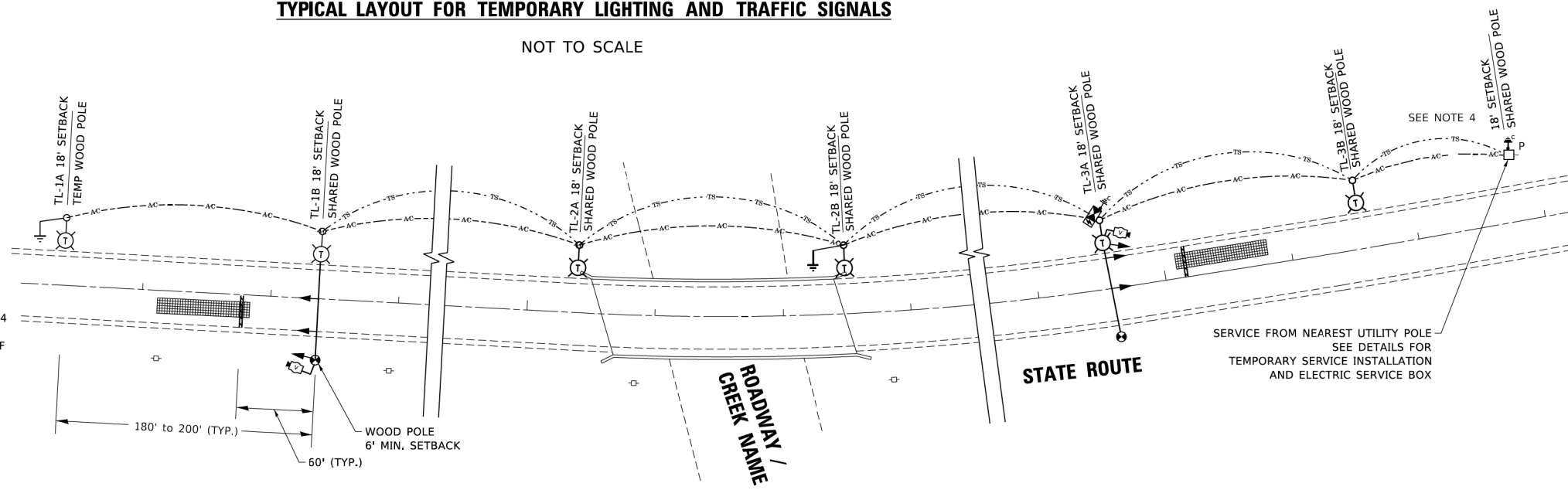


TYPICAL LAYOUT FOR TEMPORARY LIGHTING AND TRAFFIC SIGNALS

NOT TO SCALE

LEGEND

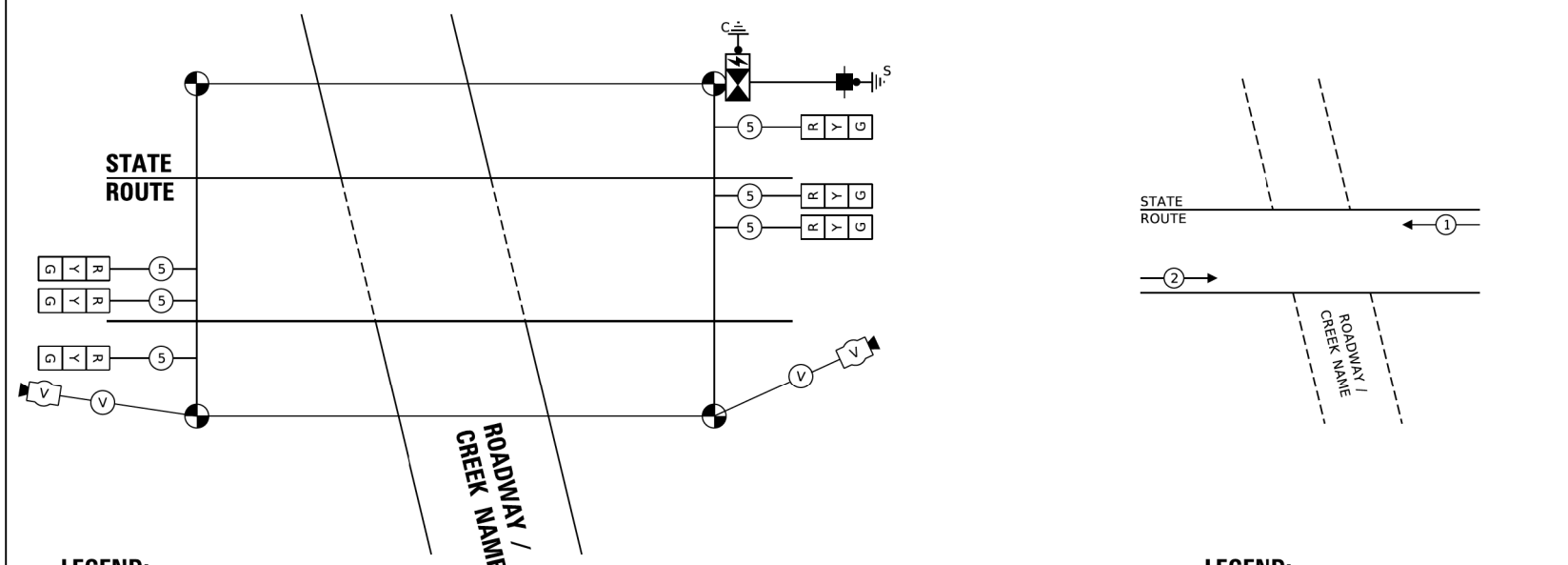
- 26,000-30,000 LUMENS, 120V, MCIII LED WITH PHOTO CELL 15' MA, 50' MH ON WOOD POLE, CLASS 4
- 3-1/C#2, AERIAL CABLE WITH MESSENGER WIRE UNLESS OTHERWISE NOTED
- TL-1A** TEMPORARY LIGHTING UNIT NUMBER - ONE CIRCUIT A
- GROUND ROD 5/8" DIA. x 10'
- COMBINATION LIGHTING AND TRAFFIC POLE MOUNTED ELECTRICAL SERVICE BOX
- TEMPORARY WOOD POLE - NOMINAL 60 FT., CLASS 4
- TEMPORARY LED TRAFFIC SIGNAL HEAD, NUMBER OF SECTION AND DISPLAY AS REQUIRED.
- TEMPORARY TRAFFIC SIGNAL SPAN WIRE, NUMBER OF CONDUCTORS AS REQUIRED.
- TEMPORARY TRAFFIC CONTROLLER WITH UPS AND BOTTOM PLATE MOUNTED TO WOOD POLE
- TEMPORARY VIDEO DETECTOR



GENERAL NOTES:

1. CONTACT TO THE ELECTRIC UTILITY SHALL BE INITIATED BEFORE THE PRECONSTRUCTION MEETING, AND DOCUMENTATION OF CONTACT SHALL BE PRESENTED AT THAT MEETING. NO PLACEMENT OF POLES WILL BE ALLOWED WITHOUT EVIDENCE OF A SIGNED AGREEMENT WITH THE ELECTRIC UTILITY, FURNISHED TO THE ENGINEER.
2. UNLESS OTHERWISE INDICATED, AND EXCEPT AS OTHERWISE NOTED, THIS STANDARDIZED LAYOUT SHALL APPLY FOR BRIDGES NOT EXCEEDING A 250-FOOT SPAN. FOR BRIDGE SPANS IN EXCESS OF 250 FEET, THE POLES IMMEDIATELY ADJACENT TO THE BRIDGE SHALL BE 100-FOOT POLES (90-FOOT MOUNTING HEIGHT), WITH 56,000-60,000 LUMENS TYPE III LED HIGH-MAST LUMINAIRES AS APPROVED BY THE ENGINEER.
3. THE LAYOUT OF THE TEMPORARY EQUIPMENT WILL VARY BASED ON FIELD CONDITIONS, STAGING, UTILITY IMPACTS, AND THE ELECTRIC SERVICE LOCATION AS COORDINATED WITH THE ELECTRIC UTILITY. THE CONTRACTOR SHALL SUBMIT A PLAN INDICATING THE SETTING OF POLES, TRAFFIC SIGNALS, AND COMBINED SERVICE. THIS PLAN MUST BE APPROVED BY THE ENGINEER BEFORE ANY POLES ARE PLACED
4. THE ELECTRIC SERVICE SHALL BE 240/120V. WHERE 240V SERVICE IS NOT AVAILABLE, THE CONTRACTOR MAY SUBMIT A PROPOSAL FOR 120V SERVICE, DROP CABLE, MAIN BREAKER, AND ALL OTHER SERVICE APPURTENANCES SHALL BE APPROPRIATELY RATED AND INCLUDED REGARDLESS OF THE SERVICE VOLTAGE APPLIED.
5. THE TEMPORARY LIGHTING AND TRAFFIC SIGNAL INSTALLATION SHALL SHARE ANY COMMON ELEMENTS SUCH AS WOOD POLES, ELECTRICAL SERVICE, ELECTRIC SERVICE BOX, CABLE, ETC. THE CONTRACTOR SHALL COORDINATE TEMPORARY LIGHTING AND TRAFFIC SIGNAL INSTALLATIONS.
6. THE LIGHT POLE SETBACK FROM THE EDGE OF TRAVEL PAVEMENT SHALL BE 18 FT. UNLESS THE LIGHT POLE IS BEHIND GUARDRAIL, THE LIGHT POLES INSTALLED BEHIND THE GUARDRAIL OR BARRIER WALL SHOULD HAVE AT LEAST 8 FT. SETBACK FROM THE BACK OF THE SHOULDER AND OR AS DIRECTED BY THE ENGINEER.
7. EACH LIGHTING UNIT SHALL BE CONTROLLED BY A PHOTO CELL MOUNTED ON EACH LUMINAIRE WITH THE LIGHTING CIRCUIT FED FROM THE TEMPORARY SERVICE DISCONNECT BOX. OTHER MEANS OF LUMINAIRE CONTROL CAN BE CONSIDERED IF APPROVED BY THE ENGINEER.
8. THE CONTRACTOR SHALL SPLICE AERIAL CABLE AT THE LIGHT POLE USING HEAT SHRINKABLE CAPS WITH THE FACTORY APPLIED WATERPROOF SEALANT OR AN APPROVED UL LISTED AERIAL TAP DEVICE.
9. ALL AREAS DISTURBED UNDER THIS CONTRACT SHALL BE RESTORED TO THE ORIGINAL CONDITION OR BETTER, TO THE SATISFACTION OF THE ENGINEER.
10. THIS LAYOUT IS ONLY FOR SINGLE LANE STAGING WITHOUT PRIVATE DRIVEWAYS WITHIN SINGLE LANE WORK ZONE.

CABLE PLAN AND PHASE DESIGNATION DIAGRAM (TYPICAL)



LEGEND:

- TEMPORARY VIDEO / RADAR DETECTOR
- TEMPORARY SIGNAL HEAD 12" SECTION.
- CABLE INDICATES NUMBER OF CONDUCTORS IN CABLE ALL CONDUCTORS TO BE NUMBER 14 AWG UNLESS OTHERWISE NOTED.

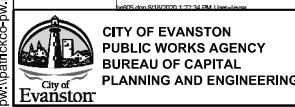
LEGEND:

- NUMBER ASSOCIATED WITH PROTECTED PHASE

USER NAME = leysa DESIGNED - DRAWN - CHECKED - DATE - 01/14/2010	DESIGNED - DRAWN - CHECKED - DATE -	REVISED - 07/28/2020 REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY LIGHTING AND TRAFFIC SIGNALS FOR SINGLE LANE STAGING	F.A.U. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO.
PLOT SCALE = 50.0000' / in. PLOT DATE = 8/18/2020			SCALE: NONE SHEET 1 OF 3 SHEETS STA. TO STA.		
			BE-805 CONTRACT NO.		

USER NAME = mschilling DESIGNED - ACN DRAWN - BAW CHECKED - MD DATE - 1/6/23	DESIGNED - DRAWN - CHECKED - DATE -	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAIN STREET IMPROVEMENTS IDOT DISTRICT 1 STANDARD DRAWINGS	F.A.U. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO.
PLOT SCALE = 40.0000' / in. PLOT DATE = 1/6/2023			SHEET OF SHEETS STA. TO STA.		
			1329 19-00283-00-PV COOK 164 141		
			CONTRACT NO. 61H93		

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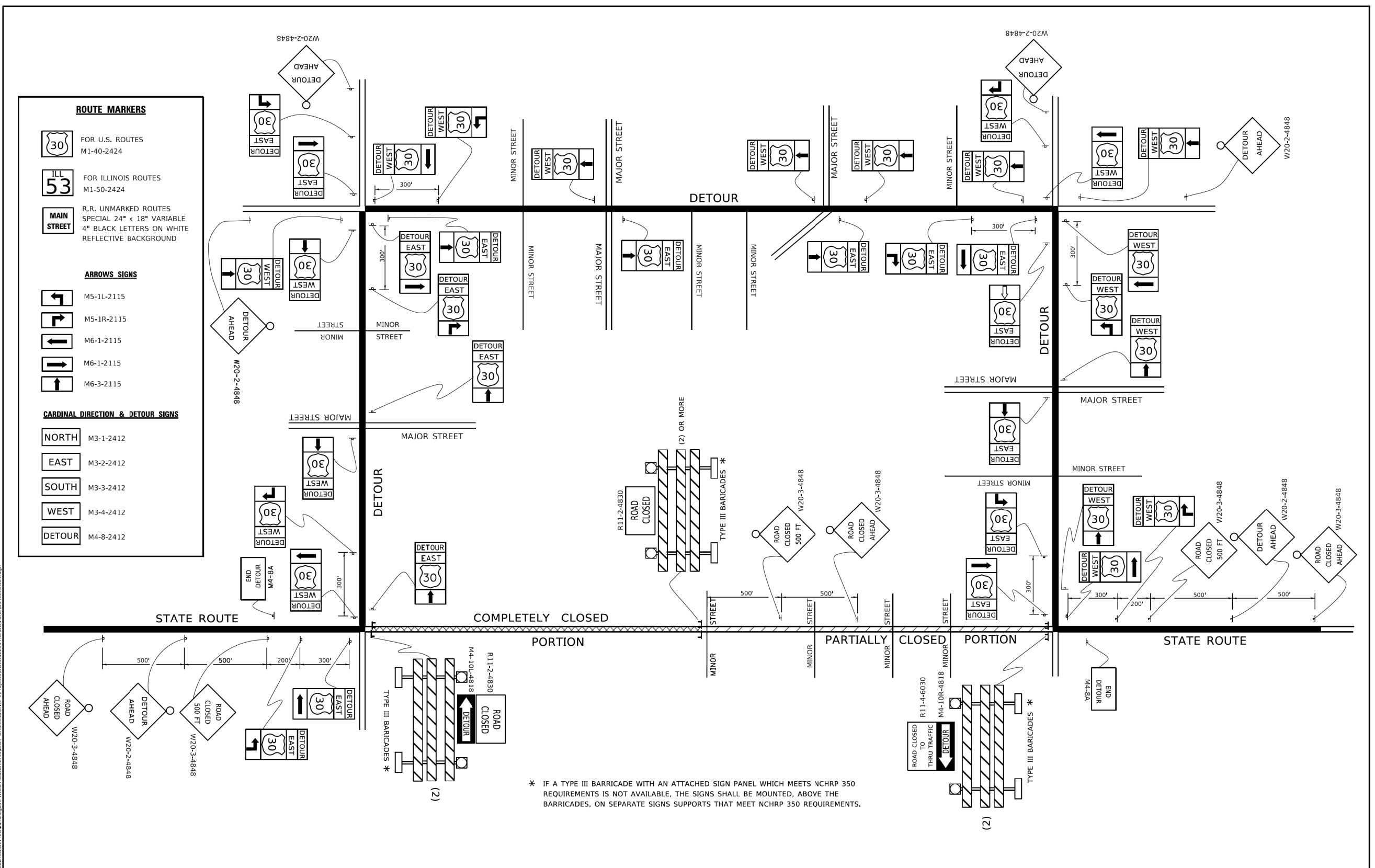


CITY OF EVANSTON
 PUBLIC WORKS AGENCY
 BUREAU OF CAPITAL
 PLANNING AND ENGINEERING

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

MAIN STREET IMPROVEMENTS
 IDOT DISTRICT 1 STANDARD DRAWINGS

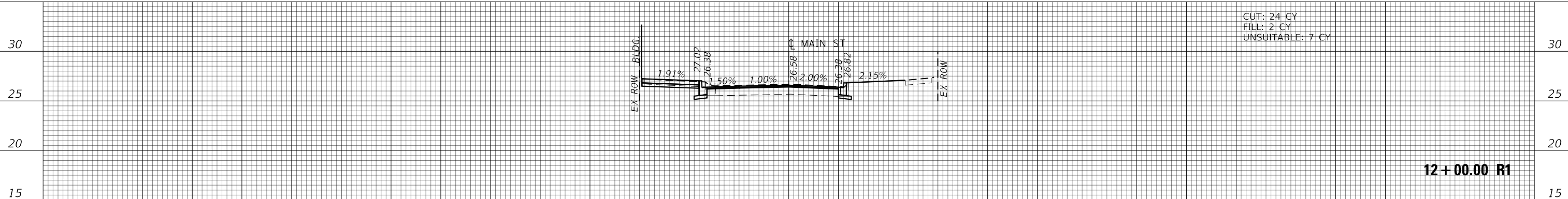
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USER NAME = focteml	DESIGNED -	REVISED - 10-18-02	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		DETOUR SIGNING FOR CLOSING STATE HIGHWAYS				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT DATE = 3/4/2019	CHECKED -	REVISED -							ILLINOIS FED. AID PROJECT				

	CITY OF EVANSTON PUBLIC WORKS AGENCY BUREAU OF CAPITAL PLANNING AND ENGINEERING			USER NAME = mschilling	DESIGNED - ACN	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		MAIN STREET IMPROVEMENTS IDOT DISTRICT 1 STANDARD DRAWINGS				F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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			PLOT DATE = 1/6/2023	CHECKED - MD	REVISED -							ILLINOIS FED. AID PROJECT					

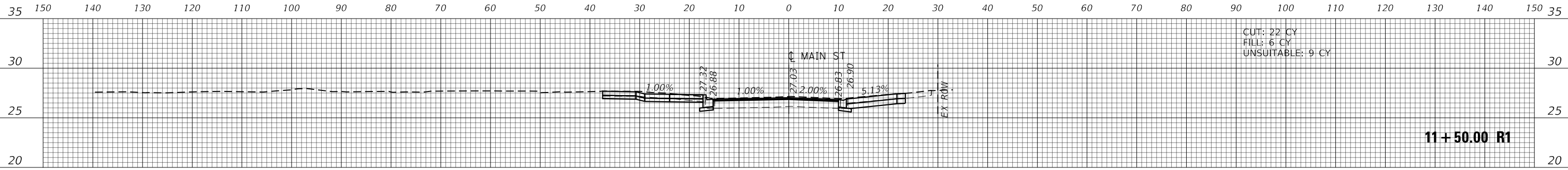
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12+00.00 R1

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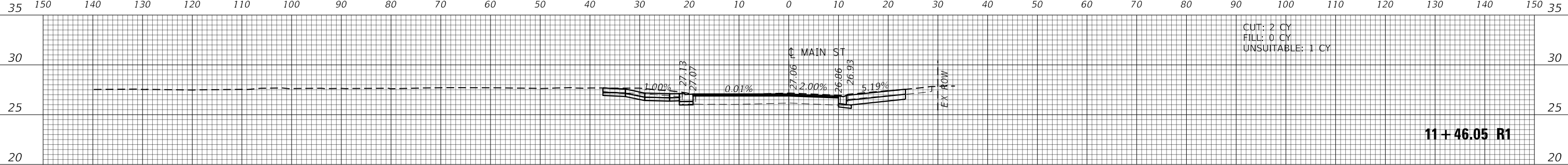
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11+50.00 R1

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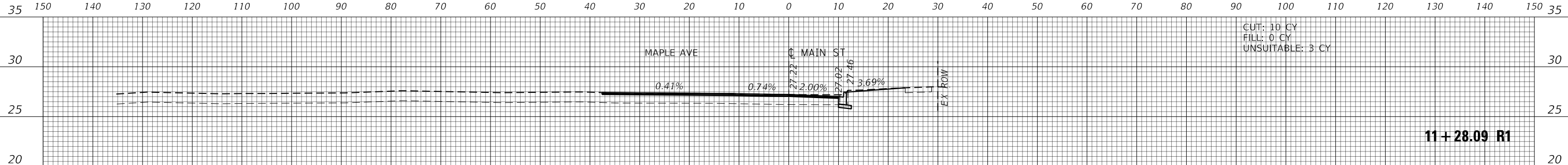
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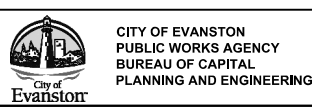
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11+28.09 R1

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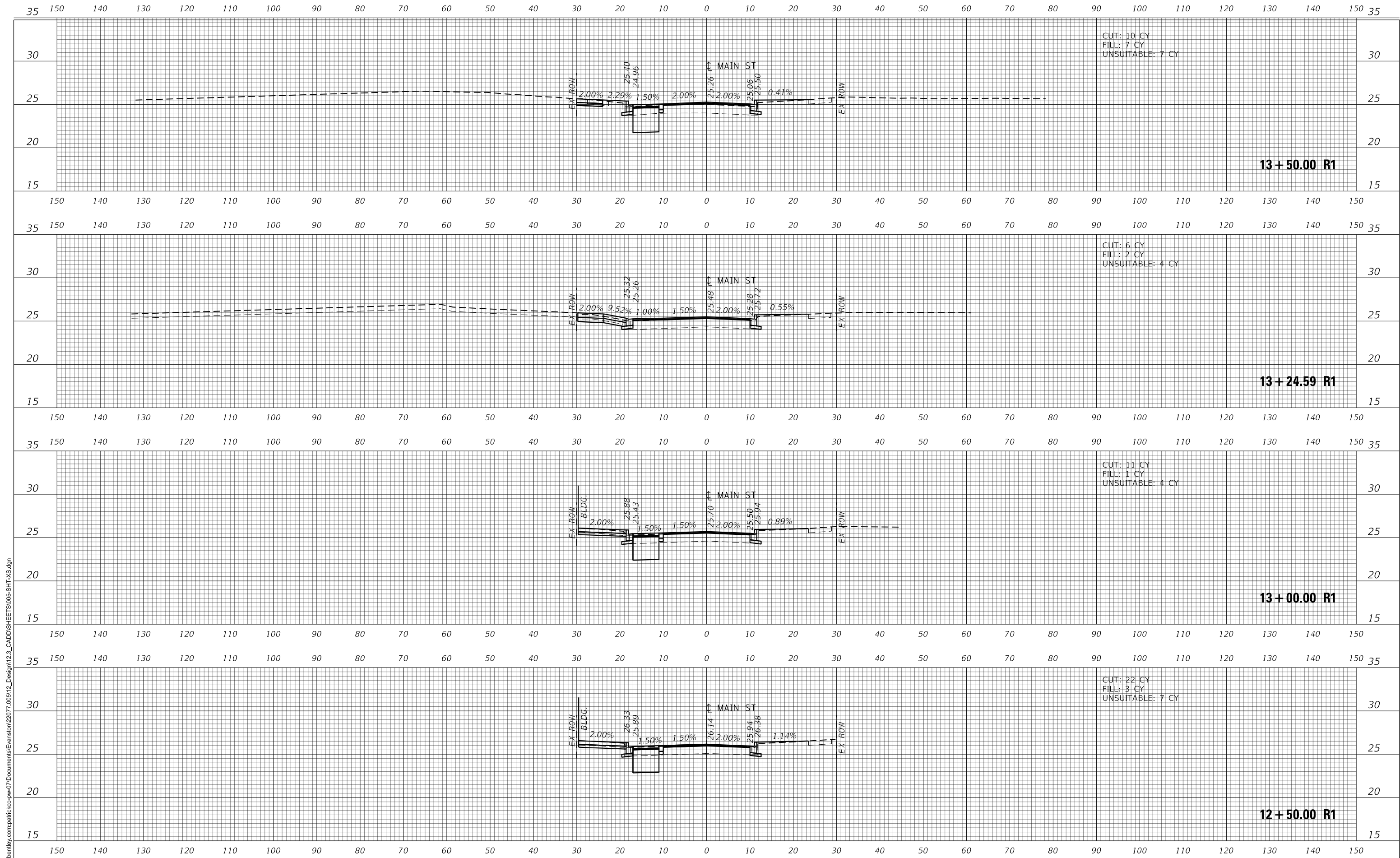
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

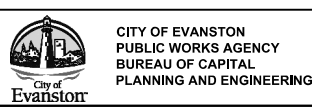
MAIN STREET IMPROVEMENTS
CROSS SECTIONS

SHEET OF SHEETS STA. TO STA.

F.A.U. RTE. 1329	SECTION 19-00283-00-PV	COUNTY COOK	TOTAL SHEETS 164	SHEET NO. 148
CONTRACT NO. 61H93				
ILLINOIS FED. AID PROJECT				



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USER NAME = nschilling	DESIGNED - ACN	REVISED -
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PLOT DATE = 1/6/2023	CHECKED - MD	REVISED -
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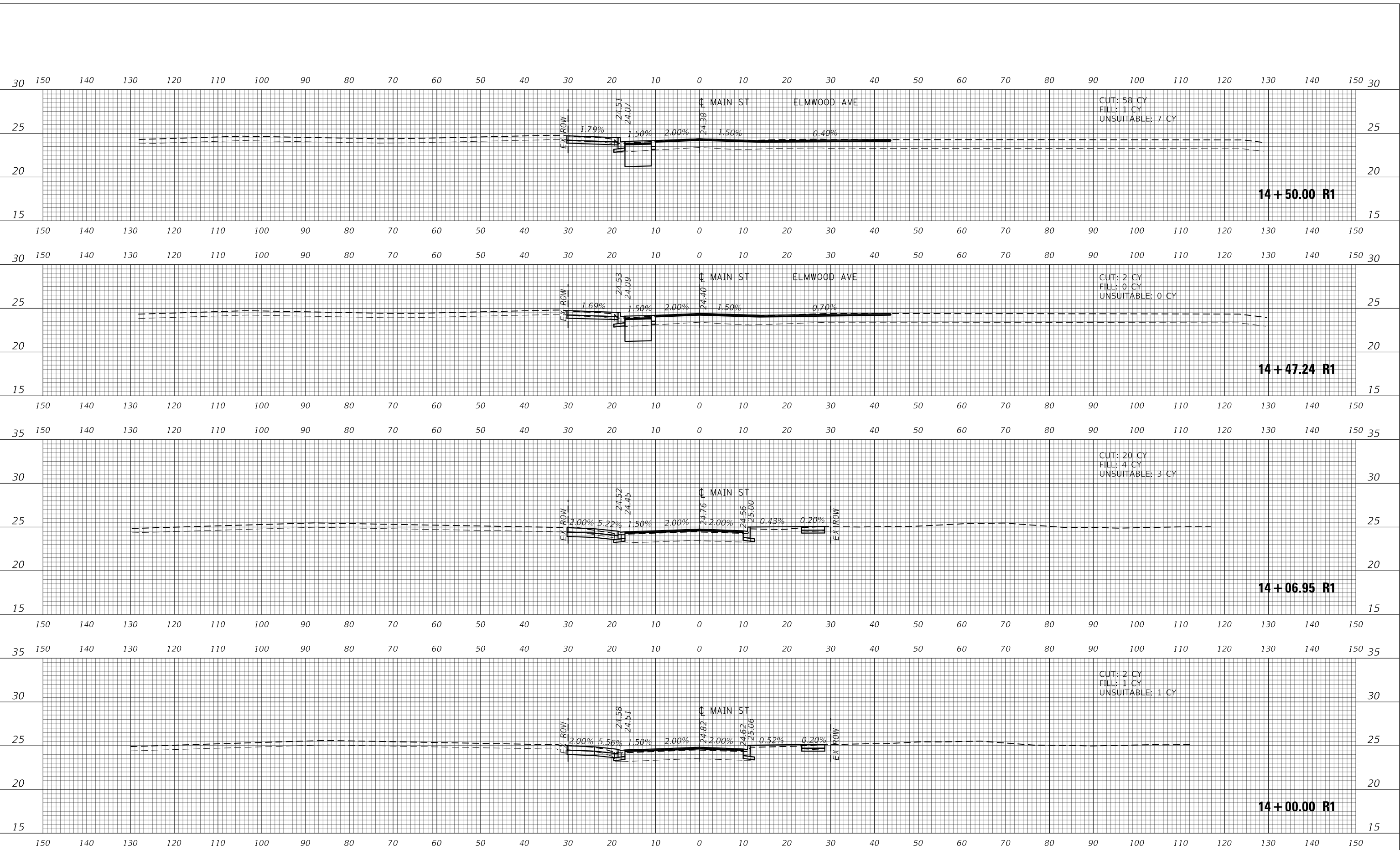
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**MAIN STREET IMPROVEMENTS
 CROSS SECTIONS**

SHEET OF SHEETS STA. TO STA.

F.A.U. RTE. 1329	SECTION 19-00283-00-PV	COUNTY COOK	TOTAL SHEETS 164	SHEET NO. 149
CONTRACT NO. 61H93				
ILLINOIS FED. AID PROJECT				

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CITY OF EVANSTON
PUBLIC WORKS AGENCY
BUREAU OF CAPITAL
PLANNING AND ENGINEERING

USER NAME = nschilling	DESIGNED - ACN	REVISED -
PLOT SCALE = 20.0000' / in.	DRAWN - BAW	REVISED -
PLOT DATE = 1/6/2023	CHECKED - MD	REVISED -
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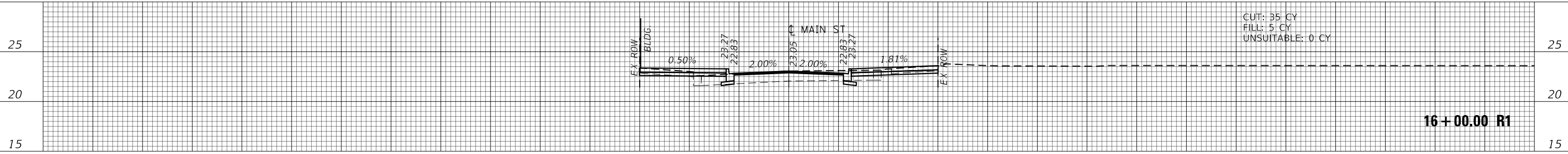
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAIN STREET IMPROVEMENTS
CROSS SECTIONS

SHEET	OF	SHEETS	STA.	TO STA.
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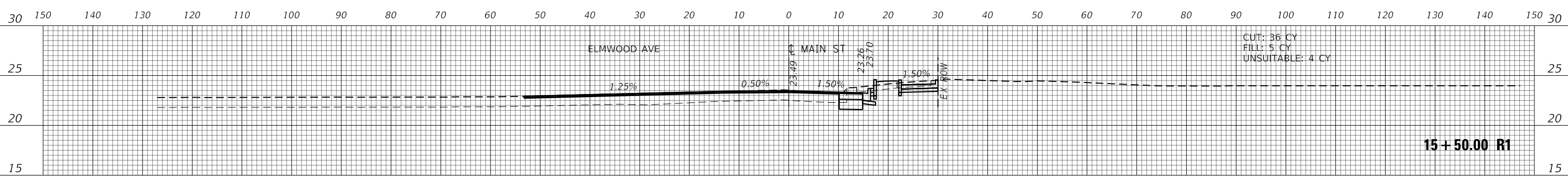
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CONTRACT NO. 61H93				
ILLINOIS FED. AID PROJECT				

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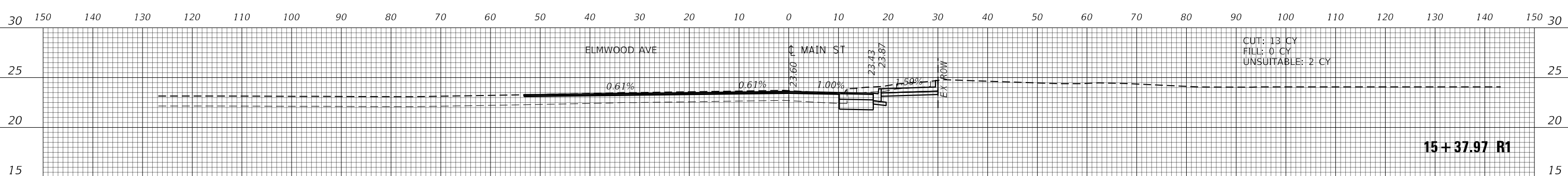
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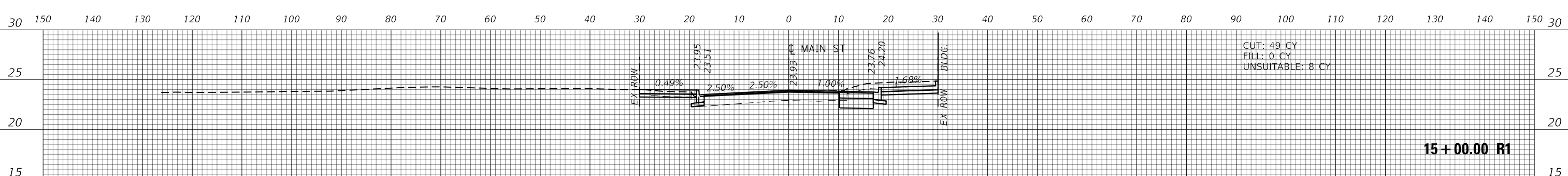
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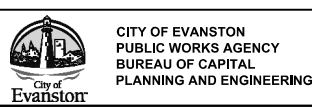
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15+00.00 R1

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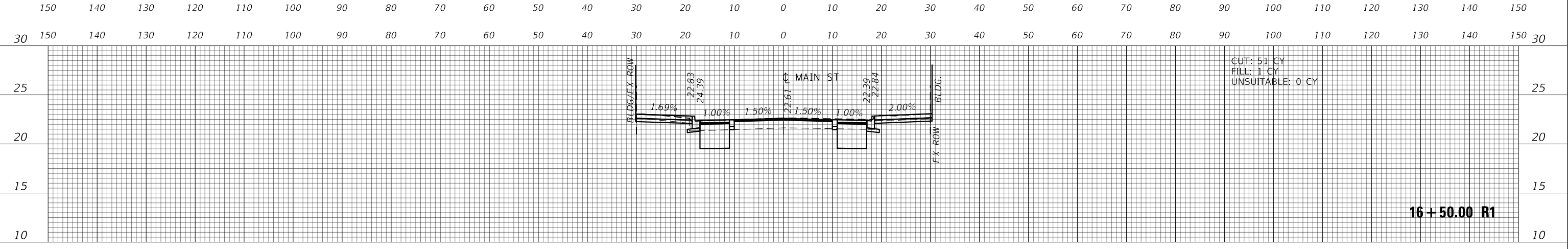
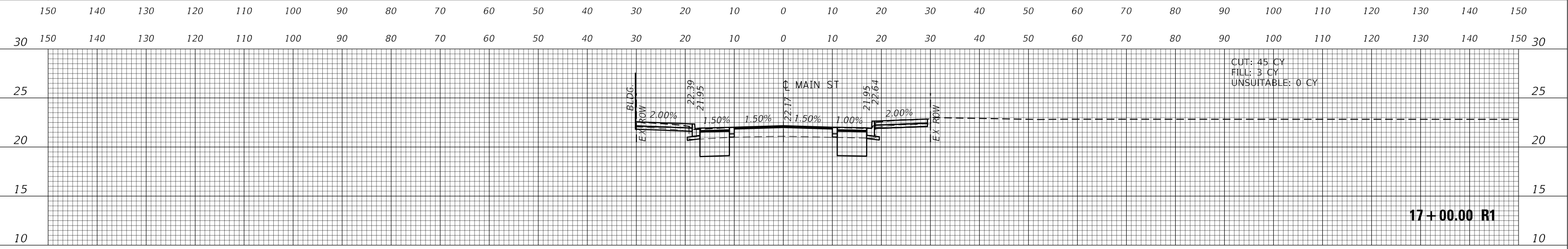
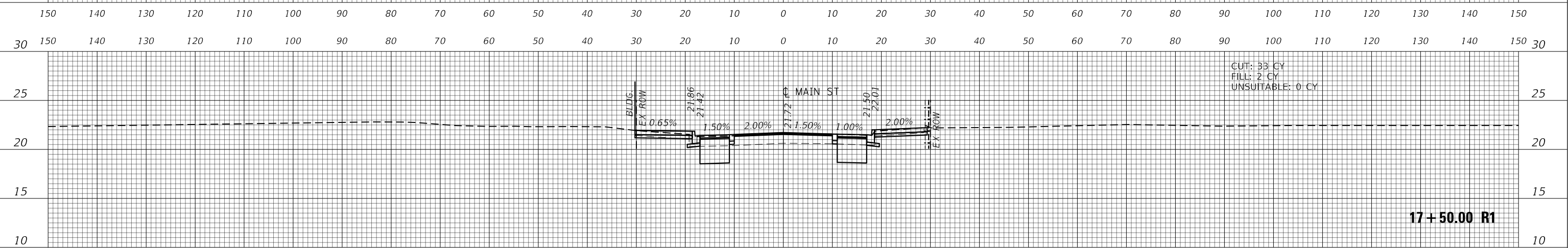
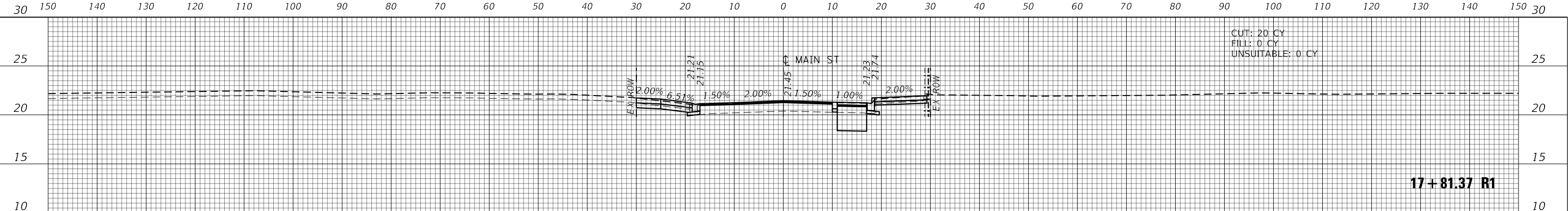
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PLOT SCALE = 20.0000' / in.	DRAWN - BAW	REVISED -
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	DATE - 1/6/23	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

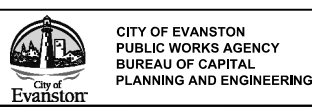
MAIN STREET IMPROVEMENTS
CROSS SECTIONS

SHEET OF SHEETS STA. TO STA.

F.A.U. RTE. 1329	SECTION 19-00283-00-PV	COUNTY COOK	TOTAL SHEETS 164	SHEET NO. 151
CONTRACT NO. 61H93				
ILLINOIS FED. AID PROJECT				



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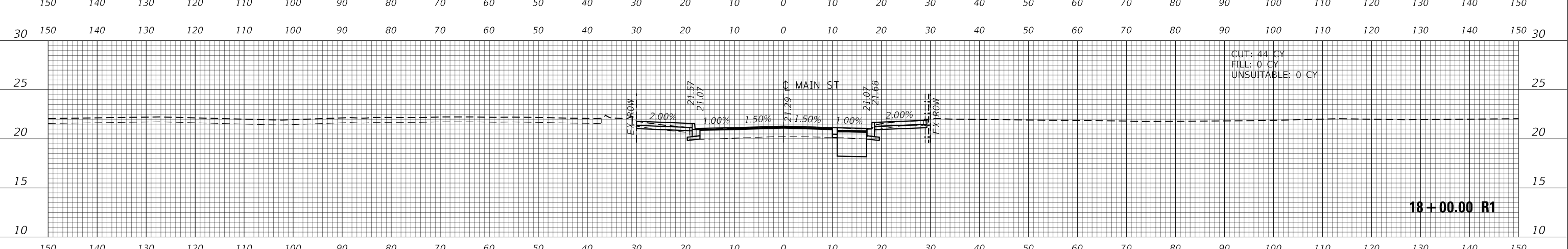
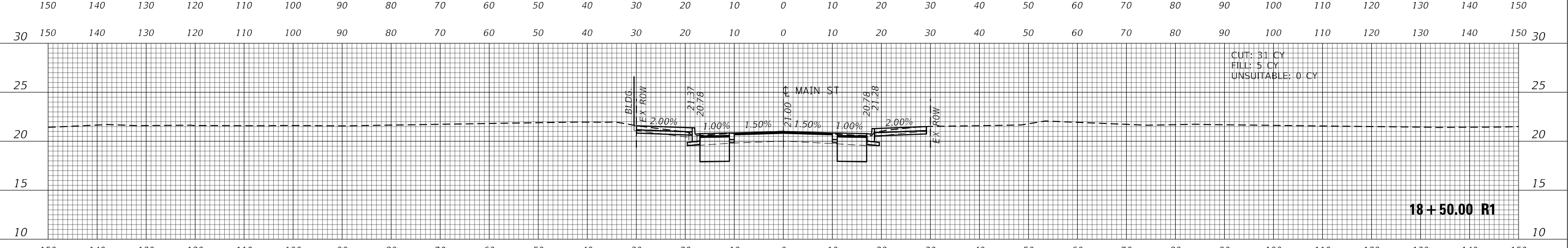
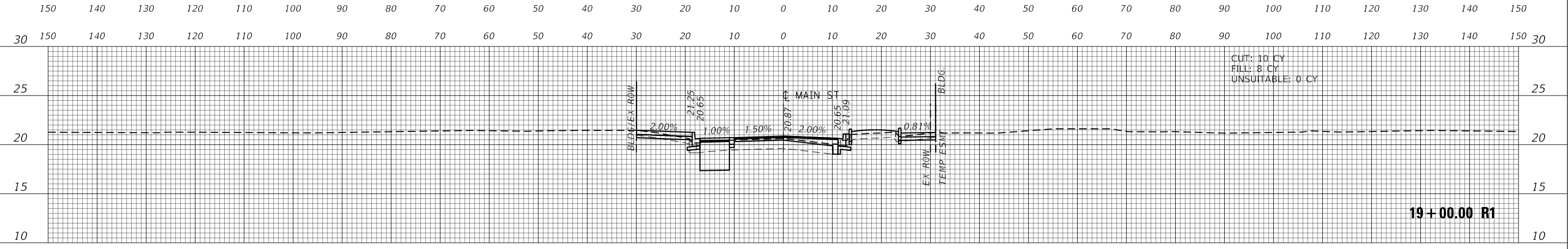
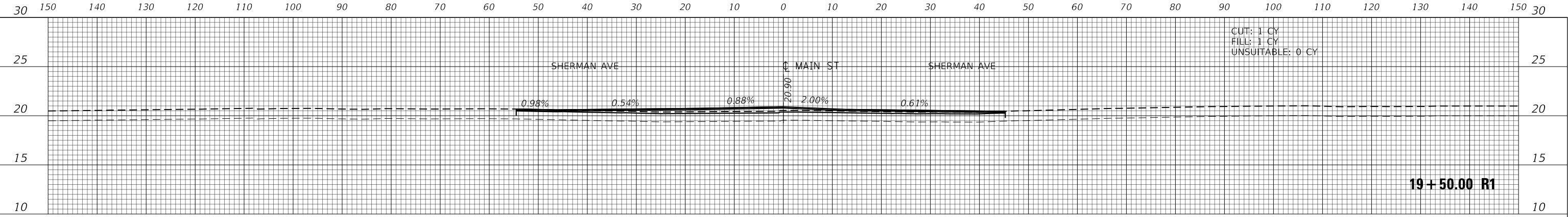
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PLOT DATE = 1/6/2023	CHECKED - MD	REVISED -
	DATE - 1/6/23	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

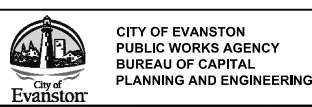
**MAIN STREET IMPROVEMENTS
CROSS SECTIONS**

SHEET OF SHEETS STA. TO STA.

F.A.U. RTE. 1329	SECTION 19-00283-00-PV	COUNTY COOK	TOTAL SHEETS 164	SHEET NO. 152
CONTRACT NO. 61H93				
ILLINOIS FED. AID PROJECT				



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USER NAME = nschilling	DESIGNED - ACN	REVISED -
PLOT SCALE = 20.0000' / in.	DRAWN - BAW	REVISED -
PLOT DATE = 1/6/2023	CHECKED - MD	REVISED -
	DATE - 1/6/23	REVISED -

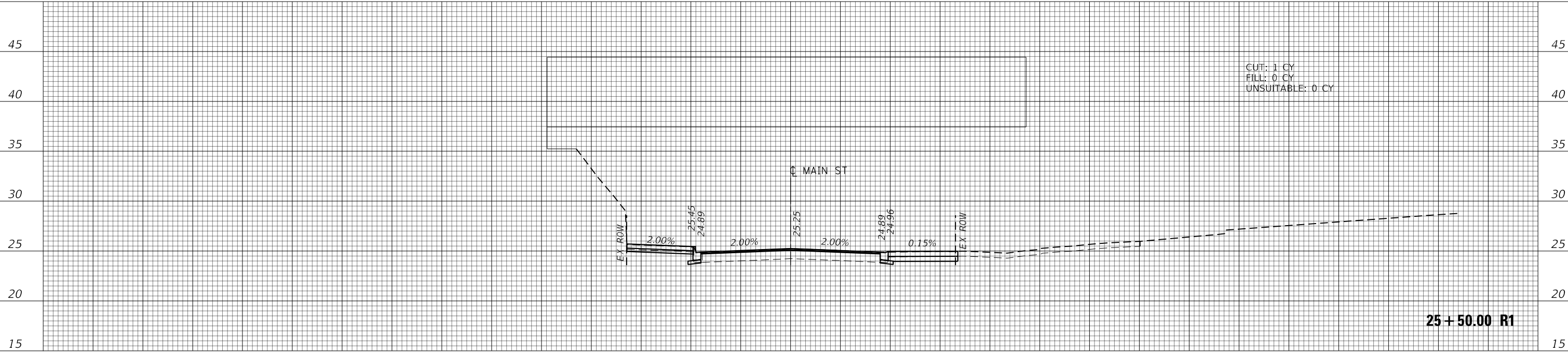
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MAIN STREET IMPROVEMENTS
CROSS SECTIONS**

SHEET OF SHEETS STA. TO STA.

F.A.U. RTE. 1329	SECTION 19-00283-00-PV	COUNTY COOK	TOTAL SHEETS 164	SHEET NO. 153
CONTRACT NO. 61H93				
ILLINOIS FED. AID PROJECT				

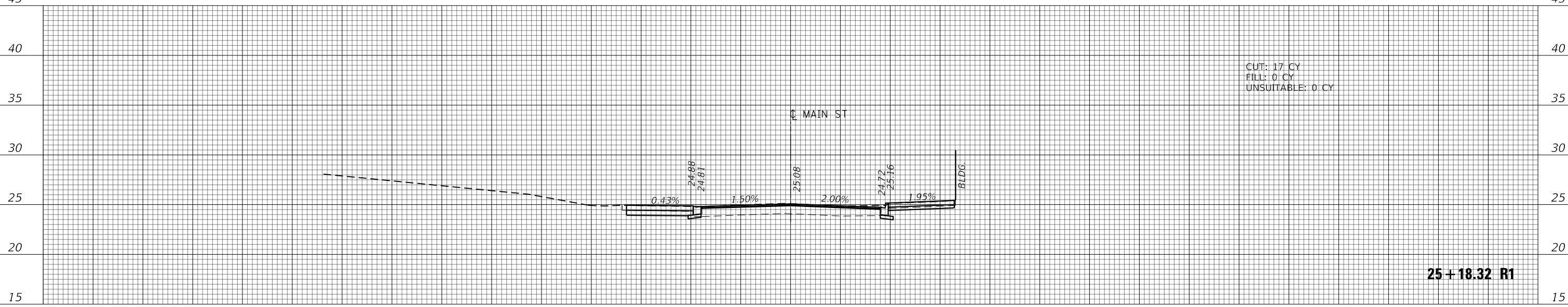
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25 + 50.00 R1

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45 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 45



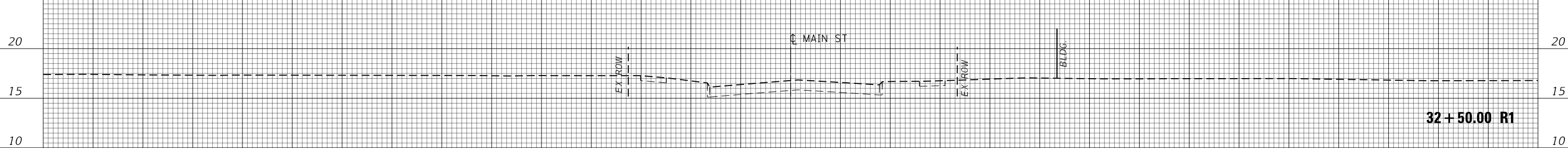
25 + 18.32 R1

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<p>CITY OF EVANSTON PUBLIC WORKS AGENCY BUREAU OF CAPITAL PLANNING AND ENGINEERING</p>	USER NAME = nschilling	DESIGNED - ACN	REVISED -	<p>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</p>	<p>MAIN STREET IMPROVEMENTS CROSS SECTIONS</p>			F.A.U. RTE. 1329	SECTION 19-00283-00-PV	COUNTY COOK	TOTAL SHEETS 164	SHEET NO. 159
	PLOT SCALE = 20.0000' / in.	CHECKED - MD	REVISED -					CONTRACT NO. 61H93				
	PLOT DATE = 1/6/2023	DATE - 1/6/23	REVISED -		SHEET OF SHEETS STA. TO STA.			ILLINOIS FED. AID PROJECT				

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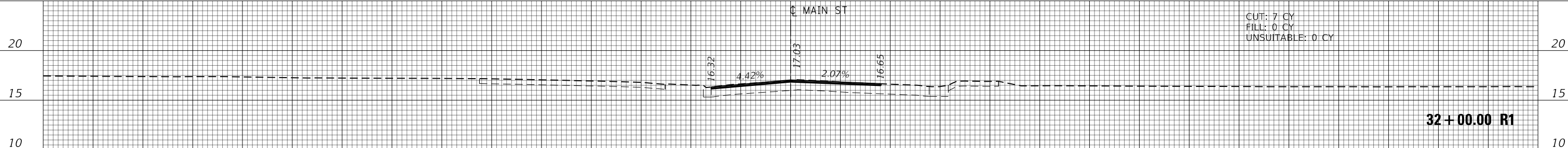
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32 + 50.00 R1

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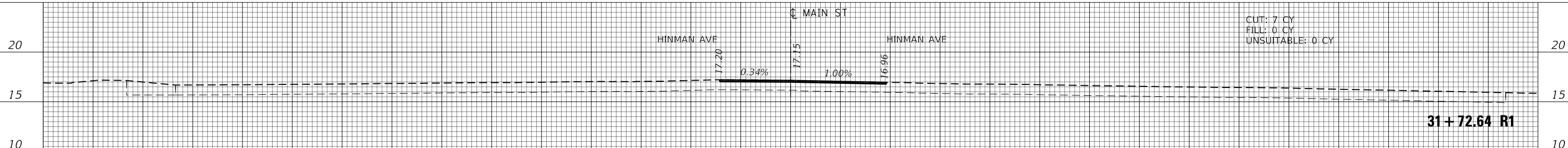
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32 + 00.00 R1

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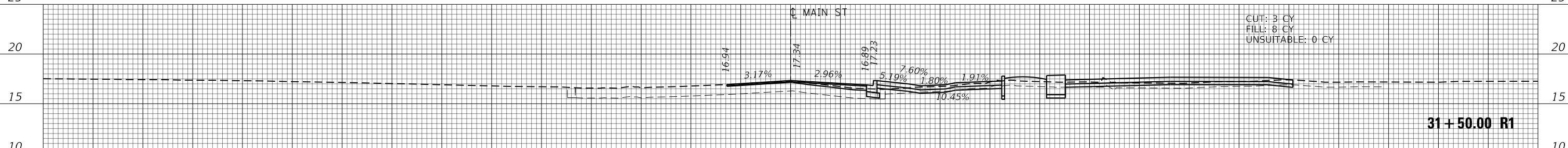
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31 + 72.64 R1

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25 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 25



31 + 50.00 R1

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

<p>CITY OF EVANSTON PUBLIC WORKS AGENCY BUREAU OF CAPITAL PLANNING AND ENGINEERING</p>	USER NAME = nschilling	DESIGNED - ACN	REVISED -	<p>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</p>	<p>MAIN STREET IMPROVEMENTS CROSS SECTIONS</p>				F.A.U. RTE. 1329	SECTION 19-00283-00-PV	COUNTY COOK	TOTAL SHEETS 164	SHEET NO. 164
	PLOT SCALE = 20.0000' / in.	CHECKED - MD	REVISED -		SHEET OF SHEETS STA. TO STA.				CONTRACT NO. 61H93				
	PLOT DATE = 1/6/2023	DATE - 1/6/23	REVISED -						ILLINOIS FED. AID PROJECT				

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