TRAFFIC SIGNAL LEGEND

<u>ITEM</u>	<u>EXISTING</u>	PROPOSED	<u>ITEM</u>	<u>EXISTING</u>	PROPOSED	<u>ITEM</u>	<u>EXISTING</u>	<u>PROPOSED</u>
Traffic Signal Cabinet			Handhole -Square			Signal Head -(P) Programmable Signal Head	R R R Y Y Y G G G	R R R Y Y G G G
Uninterruptable Power Supply	∳	9	-Round			-(EV) Elongated Visors	G G G P EV	G G G P EV
Communication Cabinet	ECC	СС	Double Handhole			Signal Head with Backplate		
Master Controller	EMC	MC	Heavy Duty Handhole -Square -Round	H (D)	⊞ 19	-(RB) Retroreflective Backplate -(P) Programmable Signal Head -(EV) Elongated Visors	R R R R S C S C S C S C S C S C S C S C	R R Y G G G
Master Master Controller	EMMC	ммс			_		RB P EV	RB P EV
Service Installation -(P) Pole Mounted	- <u>-</u> -P	- - P	Junction Box		0	Pedestrian Signal Head with Countdown Timer	(F) C	₩ C K D
Service Installation	C CM	C CM	Railroad Cantilever Mast Arm	$X \longrightarrow X$	X eX X	with Countdown Times	MY 2	[N] 5]
-(G) Ground Mounted -(GM) Ground Mounted Metered	$\boxtimes^{\mathrm{G}} \boxtimes^{\mathrm{GM}}$	⊠ ^G ⊠ ^{GM}	Railroad Flashing Signal	∑o ∑	X⊕X	Illuminated LED Sign "NO LEFT TURN"/"NO RIGHT TURN"		
Cellular Modem	СМ	€ CM	Railroad Crossing Gate	X0 X • 	X+X-	Flashis Oakla Cinnal Na 44		
			Railroad Crossbuck	☆	*	Electric Cable, Signal, No. 14 - 2/C, 3/C, 5/C, 7/C		
Telephone Connection	ET	T				Electric Cable, Lead-In, No. 14, 1 Pair	—(1P)—	——(1P)——
Steel Mast Arm Assembly and Pole	O	•	Railroad Controller Bungalow	₽ X R	▶∢)	
Aluminum Mast Arm Assembly and Pole	e		Underground Conduit (UC), Galvanized Steel			Service Cable, 2/C - No. 2, No. 4, No. 6	2#2	
Steel Combination Mast Arm Assembly and Pole with Luminaire	o- \ \\ —	•*						
Signal Post -(BM) Barrel Mounted - Temporary	0	● ● BM	Temporary Span Wire, Tether Wire, and Cable				2#6	2#6
Wood Pole	\otimes	•	System Item	S	SP	Ground Cable No. 6 Solid Copper (Green), 1/C	— 1#6 — -	- 1#6
Guy Wire	>-	>-	Intersection Item	I	IP	Electric Cable, Tracer, No. 14, 1/C	<u> </u>	<u> </u>
Signal Head	>	-	Removal Item		R		,	
Signal Head with Backplate	+	+►	Relocate Item		RL	51 0.11 5 7 14 0/0	Rallroad No. 14 3/C	Rallroad – No. 14 3/C
Signal Head - Programmable	$\rightarrow P \rightarrow P$	→ P + → P	Abandon Item Controller Cabinet and		А	Electric Cable, Railroad, No. 14, 3/C	(3)	(3)
Flasher Installation	od⊳ FS	•► FS	Foundation to be Removed		RCF	Electric Cable, Street Name Sign	soow -	soow 3
-(FS) Solar Powered	□ F □ FS	₽ ► FS	Mast Arm Pole and Foundation to be Removed		RMF	No. 14, 3/C, Type SOOW		
Pedestrian Signal Head	-0	-1	Signal Post and			Vendor Cable		<u></u>
Pedestrian Push Button	⊚ ⊗ APS		Foundation to be Removed		RPF	Emergency Vehicle Priority Line	—(3#20)—	
-(APS) Accessible Pedestrian Push But Radar Detection Sensor	(R)	R	Detector Loop, Type I			Sensor Cable, No. 20, 3/C	J#20)	
	_		Preformed Detector Loop	$\begin{bmatrix} P \end{bmatrix}$ (P)	P P	Outdoor Rated Network Cable	— ONC	—ONC
Video Detection Camera	V 1	▽ •	Wireless Detector Sensor	<u></u>	©	Fiber Optic Cable	——————————————————————————————————————	
Radar/Video Detection Zone		=				-12F: 12 Multimode -24F: 12 Multimode / 12 Single Mode		——————————————————————————————————————
Pan, Tilt, Zoom (PTZ) Camera	PTZ[]	PTZ¶				-36F: 12 Multimode / 24 Single Mode -24SM: 24 Single Mode		
Emergency Vehicle Light Detector	\bowtie	◄				-48SM: 48 Single Mode		— (36F)— — (24SM)—
Confirmation Beacon	○ -()	⊷ 1						——(48SM)—
Wireless Interconnect	o + + 	•++ 				Ground Rod		
Wireless Interconnect Radio Repeater Wireless Access Point	ERR	RR				-(C) Controller -(M) Mast Arm -(P) Post -(S) Service	±C ±M ±P ±S	^C ^M ^P ^S
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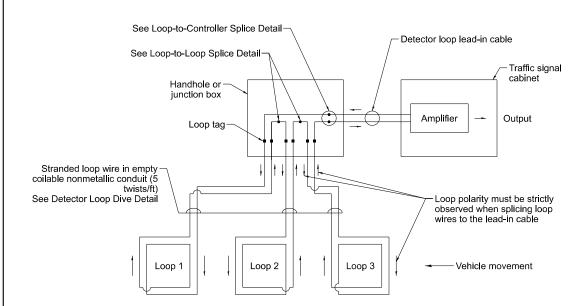
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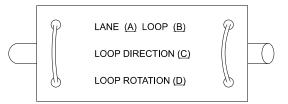
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DETECTOR LOOP NOTES:

- 1. LOOPS SHALL BE SPLICED IN SERIES.
- 2. SAW-CUTS SHALL BE A MINIMUM WIDTH OF 5/16" AT A DEPTH OF 3". IF IN CONCRETE, THE SAW-CUT DEPTH SHALL BE TO THE TOP OF THE REINFORCEMENT.
- 3. LOOP CORNERS SHALL BE DRILLED WITH A 2" DIAMETER CORE.
- 4. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NON-METALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6". EMPTY COILABLE NON-METALLIC CONDUIT SHALL BE INCLUDED IN THE COST OF THE DETECTOR LOOP PAY ITEM.
- 5. 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.
- 6. EACH LEAD-IN CABLE SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP NUMBER, LOOP DIRECTION (IN OR OUT), AND LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE) IN WATER PROOF INK. SEE DETECTOR LOOP LEAD-IN CABLE TAG DETAIL. THE CONTRACTOR SHALL MARK THE LOOP LOCATIONS ON THE RECORD DRAWINGS AND PRESENT THEM TO THE ENGINEER AFTER THE FINAL INSPECTION.
- 7. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
- 8. IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND THE DIVE HOLES 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" APART.
- LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS.
- 10. PREFORMED DETECTOR LOOPS SHALL BE USED 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.

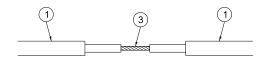


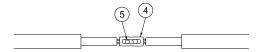
DETECTOR LOOP WIRING SCHEMATIC

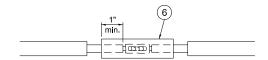


- A. Lane 1 is the lane closest to the centerline of the roadway.
- B. Loop #1 is the loop closest to the intersection.
- C. Label loop cable "in" or loop cable "out".
- D. Label loop cable clockwise or loop cable counterclockwise.

DETECTOR LOOP LEAD-IN CABLE TAG



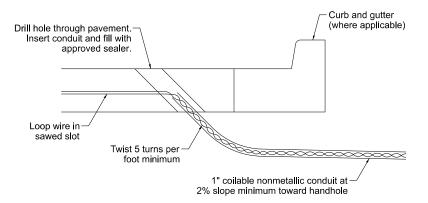




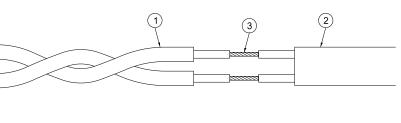


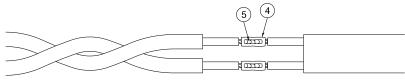
LOOP-TO-LOOP SPLICE DETAIL

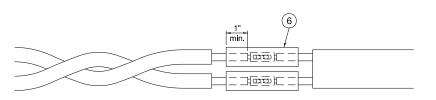
- 1) Detector loop cable.
- 2 Detector loop lead-in cable
- (3) Bare conductors twisted together.
- (4) Butt splice crimp connector.
- (5) Splice soldered with rosin core flux. All exposed surfaces of the solder shall be smooth. The splices shall be staggered.
- (6) WCSMW 30/100 heat shrink tube, 3" minimum length, underwater grade.
- (7) Self-infused, silicone electrical tape tightly wrapped around cables.
- (8) WCS 200/750 heat shrink tube, 8" minimum length, underwater grade.

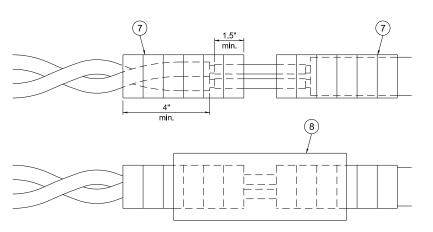


DETECTOR LOOP DIVE DETAIL









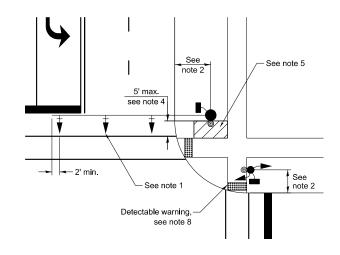
LOOP-TO-CONTROLLER SPLICE DETAIL

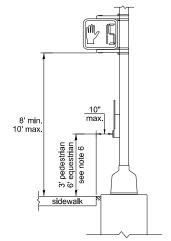
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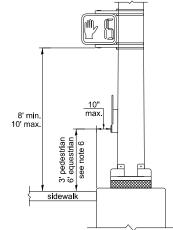
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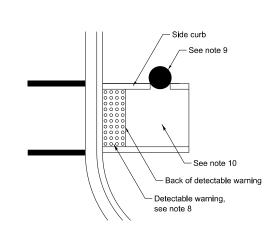
- 1. THE MAST ARM MOUNTED SIGNAL HEADS SHALL BE CENTERED ON THE LANES OR AS SHOWN ON THE TRAFFIC SIGNAL PLANS.
- 2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET MINIMUMS TABLE.
- 3. A 4' MINIMUM UNOBSTRUCTED PEDESTRIAN ACCESS ROUTE SHALL BE MAINTAINED.
- 4. THE PUSH-BUTTON SHALL BE LOCATED 5' OR LESS FROM THE OUTSIDE EDGE OF THE MARKED CROSSWALK FARTHEST FROM THE INTERSECTION FOR THE CROSSWALK THAT THE PUSH-BUTTON CONTROLS.
- 5. IF THE MAST ARM POLE OR SIGNAL POST WHERE THE PUSH-BUTTON IS TO BE INSTALLED IS NOT IMMEDIATELY ADJACENT TO THE SIDEWALK, PROVIDE A FIRM, STABLE, AND SLIP RESISTANT SURFACE UP TO THE MAST ARM POLE OR SIGNAL POST. THE MINIMUM PAVED AREA IN FRONT OF THE PUSH-BUTTON SHALL BE 2.5' X 4'. IF THIS DOES NOT MEET THE REQUIREMENT STATED IN NOTE 3, A SEPARATE PEDESTRIAN SIGNAL POST SHALL BE INSTALLED TO PLACE THE PUSH-BUTTON ADJACENT TO THE SIDEWALK SURFACE.
- 6. THE HEIGHT OF THE PEDESTRIAN PUSH-BUTTON SHALL BE 36". IF APPROVED BY THE AREA TRAFFIC SIGNAL ENGINEER, THE PUSH-BUTTON MAY BE LOCATED AT A HEIGHT BETWEEN 30" AND 42". THE HEIGHT OF THE EQUESTRIAN PUSH-BUTTON SHAL BE 72" OR AS DIRECTED BY THE ENGINEER.
- 7. THE FACE OF THE PUSH-BUTTON SHALL BE PARALLEL TO THE CROSSWALK IT CONTROLS.
- 8. THE PUSH-BUTTON SHALL BE LOCATED BEHIND THE DETECTABLE WARNING.
- 9. WHERE A PUSH-BUTTON IS BEING INSTALLED ON A MAST ARM POLE OR SIGNAL POST ADJACENT TO THE PEDESTRIAN ACCESS ROUTE, THE PROPOSED FOUNDATION SHALL BE INSTALLED WITHIN THE SIDE CURB IN ORDER TO MEET THE 10" REACH REQUIREMENT.
- 10. THE SIDEWALK PANEL IN FRONT OF THE PUSH-BUTTON SHALL HAVE A SLOPE LESS THAN 5%
- 11. WHERE TWO PEDESTRIAN PUSH-BUTTONS ARE PROVIDED ON THE SAME CORNER, THEY SHALL BE 10' OR MORE APART. EXCEPTION: IN ALTERATIONS WHERE TECHNICALLY INFEASIBLE TO PROVIDE 10' SEPARATION BETWEEN PUSH-BUTTONS ON THE SAME CORNER.
- CORRESPONDING PEDESTRIAN EQUIPMENT (SIGNAL HEAD AND PUSH-BUTTON) SHALL BE INSTALLED ON THE SAME POST CLOSEST TO THE CROSSWALK IT CONTROLS.
- 13. PEDESTRIAN SIGNAL HEADS INSTALLED ON MAST ARM POLES OR SIGNAL POSTS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING (INCLUDING BRACKETS) NOT LESS THAN 8' OR MORE THAN 10' ABOVE SIDEWALK LEVEL. PEDESTRIAN SIGNAL HEADS INSTALLED ON PEDESTRIAN SIGNAL POSTS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING (INCLUDING BRACKETS) NOT LESS THAN 8' ABOVE SIDEWALK LEVEL. THE PEDESTRIAN SIGNAL HEADS SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.
- 14. THE LOCATIONS OF THE PEDESTRIAN PUSH-BUTTONS AND PEDESTRIAN SIGNAL HEADS SHALL MEET THE REQUIREMENTS OF THE MUTCD, PROWAG, AND THE REQUIREMENTS ON THIS DETAIL SHEET.

TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

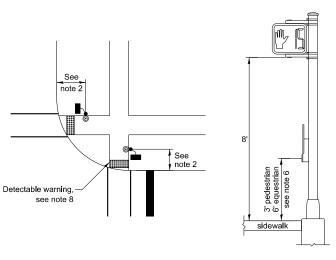


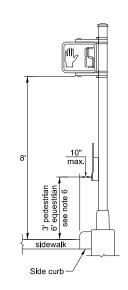


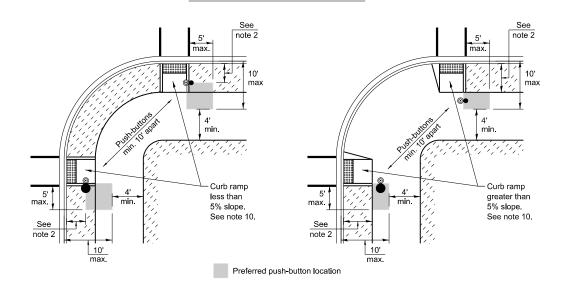




PEDESTRIAN SIGNAL POST







PUSH-BUTTON LOCATIONS

TRAFFIC SIGNAL EQUIPMENT	BARRIER CURB (MINIMUM DISTANCE FROM THE BACK OF CURB TO THE CENTER OF THE FOUNDATION)	SHOULDER / NON-BARRIER CURB (MINIMUM DISTANCE FROM THE EDGE LINE OF THE RIGHT-MOST LANE TO THE CENTER OF THE FOUNDATION)
Mast arm assembly and pole	6'	Shoulder width + 2', minimum 10'
Signal post	4'	Shoulder width + 2', minimum 10'
Pedestrian signal post	4'	4' - See note 2
Temporary wood pole	6'	Shoulder width + 2', minimum 10'
Traffic signal cabinet	6' - See Note 3	Shoulder width + 6', minimum 16' - See note 3
Service cabinet	6' - See Note 3	Shoulder width + 6', minimum 16' - See note 3

TRAFFIC SIGNAL EQUIPMENT OFFSET MINIMUMS

NOTES:

- 1. CONTACT THE AREA TRAFFIC SIGNAL ENGINEER FOR ASSISTANCE LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS AND THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
- 2. MINIMUM DISTANCE FROM THE BACK OF THE DETECTABLE WARNING.
- 3. MINIMUM DISTANCE TO THE ROADWAY SIDE OF THE FOUNDATION.

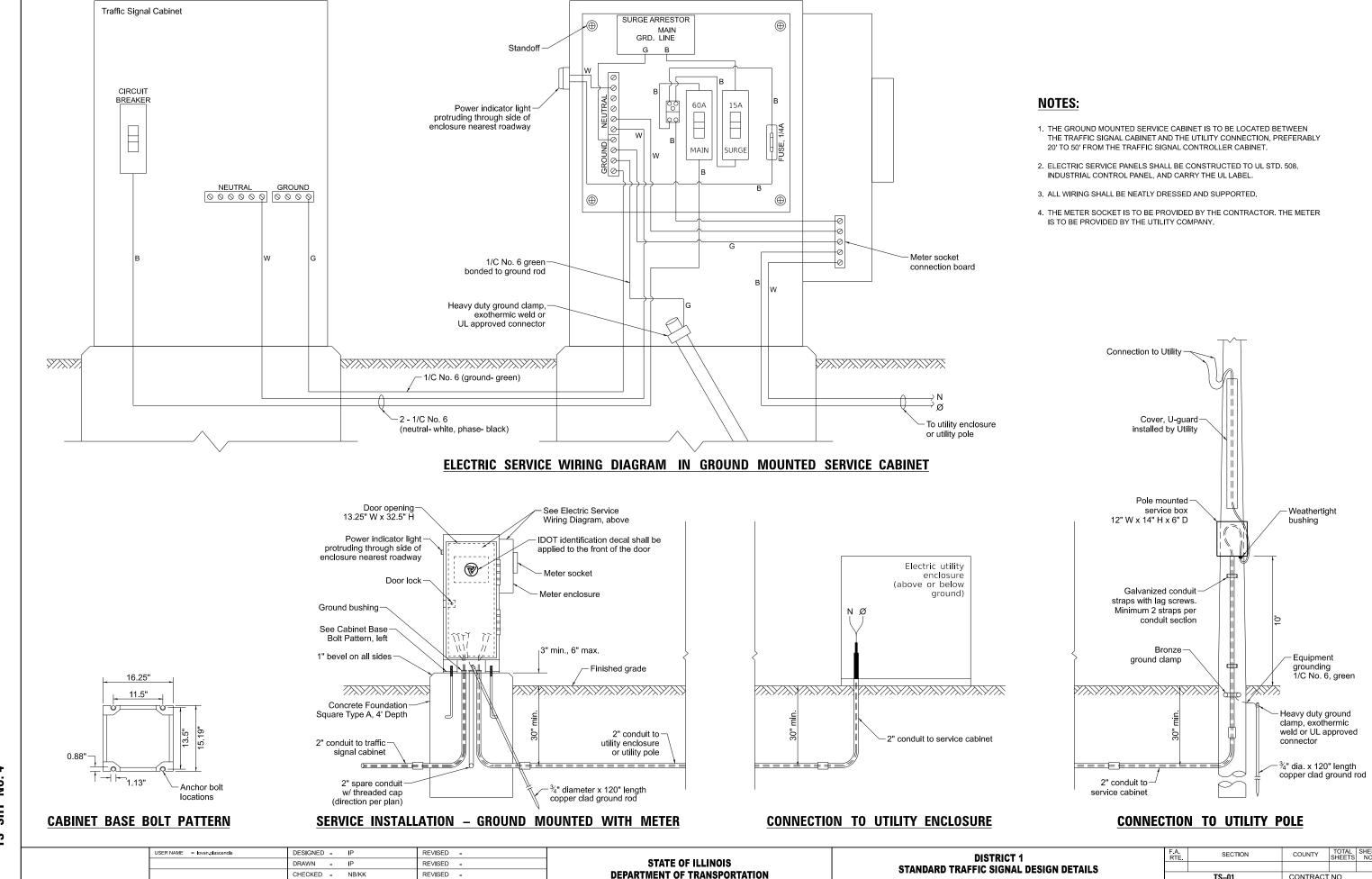
SCALE: NTS

4. ANY CHANGES TO THE OFFSETS OF THE FOUNDATIONS FROM THE MINIMUM DISTANCES LISTED IN THE "TRAFFIC SIGNAL EQUIPMENT OFFSET" TABLE AND THE TRAFFIC SIGNAL PLAN COULD AFFECT THE PLACEMENT OF THE TRAFFIC SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS, AND THE PEDESTRIAN PUSH-BUTTONS. THE SIGNAL HEAD PLACEMENT ON THE MAST ARMS SHALL REMAIN AS PER THE TRAFFIC SIGNAL PLAN AND THE "TRAFFIC SIGNAL MAST ARM AND SIGNAL POST" DETAIL ABOVE. THE PROPOSED MAST ARM LENGTHS MAY NEED TO BE REVISED TO MEET THESE REQUIREMENTS. THE LOCATIONS OF THE PEDESTRIAN PUSH-BUTTONS AND PEDESTRIAN SIGNAL HEADS SHALL MEET THE REQUIREMENTS OF THE MUTCD, PROWAG, AND THE REQUIREMENTS ON THIS DETAIL SHEET.

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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

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CONTRACT NO.

OF 7 SHEETS STA.

- 10/15/2025

REVISED .

NOTES:

- 1. THE PLATFORM SIZE IS BASED ON A TRAFFIC SIGNAL CABINET TYPE IV WITH BASE DIMENSIONS OF 26" x 44" AND UNINTERRUPTABLE POWER SUPPLY CABINET WITH BASE DIMENSIONS OF 16" x 25". ADJUST THE PLATFORM SIZE TO FIT THE BASE DIMENSIONS OF THE CABINET SUPPLIED.
- 2. DRILLED HOLES THROUGH THE PLATFORM ARE TO MATCH THE TRAFFIC SIGNAL CABINET BOLT TEMPLATE. THE CABINET SHALL BE FASTENED TO THE PLATFORM WITH CARRIAGE BOLTS, WASHERS, AND NUTS.
- 3. ALL WOOD SUPPORT FRAMING SHALL BE FASTENED TO THE WOOD POSTS WITH 2 LAG SCREWS FOR EACH CONNECTION.

TEMPORARY TRAFFIC SIGNAL CABINET WOOD SUPPORT PLATFORM

MAST ARM LENGTH	Foundation Depth	Foundation Diameter	Spiral Diameter	Quantity of Rebars	Size of Rebars
Less than 30'	10'	30"	24"	8	#6
Greater than or equal to 30'	13.5'	30"	24"	8	#6
and less than 40'	11'	36"	30"	12	#7
Greater than or equal to 40' and less than 50'	13'	36"	30"	12	#7
Greater than or equal to 50' and up to 55'	15'	36"	30"	12	#7
Greater than or equal to 56' and less than 65'	21'	42"	36"	16	#8
Greater than or equal to 65' and up to 75'	25'	42"	36"	16	#8

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

FOUNDATION DEPTH Type A - Signal post, service cabinet 4' Type C - Traffic signal cabinet with UPS 4' Type D - Traffic signal cabinet 4'

DEPTH OF FOUNDATIONS TYPES A, C & D

TYPE E FOUNDATION NOTES:

1. FOR STANDARD AND COMBINATION MAST ARM ASSEMBLIES, FOUNDATION DEPTHS FOR STANDARD DUAL MAST ARMS WITH THE LONGEST ARM LENGTH UP TO AND INCLUDING 55' SHALL BE INCREASE BY 1' OF THAT SHOWN IN THE TABLE, BASED ON THE LONGER OF THE TWO ARMS.

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2. SEE STATE STANDARD 878001 CONCRETE FOUNDATION DETAILS FOR MORE INFORMATION.

USER NAME = lovan.plascencla

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VERTICAL CABLE	LENGT
Mast arm mounted signal head (L = mast arm length - distance to signal head from end of arm)	20'+L
Bracket mounted signal head (mast arm pole or signal pole)	13'
Pedestrian signal head	10'
Pedestrian push button	6'
Service installation pole mount to service drop	13.5'
Service installation pole mount to ground	13.5'
Service installation ground mount	6'
Foundation (signal post, mast arm, traffic signal cabinet, service cabinet)	3'

CABLE SLACK LENGTH

LENGTH

6.5'

13'

2'

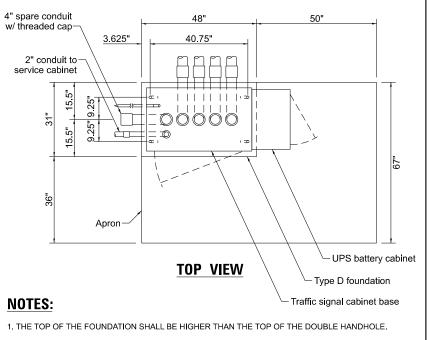
2'

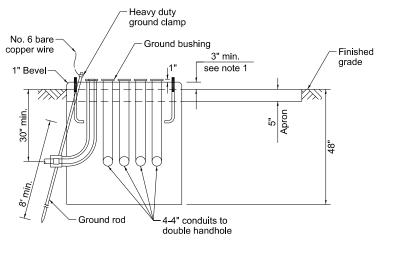
1.5' 13'

1.5'

6.5'

5'





TYPE D FOUNDATION TYPE IV AND TYPE V TRAFFIC SIGNAL CABINET AND UPS BATTERY CABINET

service cabinet \\		
36" 31" 31" Abron bound		
	TOP VIEW	nt
	Type C founda	ation
NOTES:	└─ Traffic signal cabine	t base
1. THE TOP OF THE FOUNDATION S	SHALL BE HIGHER THAN THE TOP OF THE DOUBLE HANDHOLE	≣.
	— Heavy duty ground clamp	
No. 6 bare copper wire	Ground bushing 3" min. Finis grad	
1" Bevel	see note 1	-

19.875"

4" spare conduit

w/ threaded cap-

2" conduit to -

5.375"

TYPE C FOUNDATION SUPER P AND SUPER R TRAFFIC SIGNAL CABINETS

4-4" conduits to

double handhole

VERTICAL CABLE LENGTH

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CABLE SLACK

Double handhole

Traffic signal cabinet or service cabinet

Fiber optic cable at traffic signal cabinet

Ground cable at signal post, mast arm, or cabinet

Ground cable at handhole or double handhole Ground cable between handhole frame and cover

Handhole

Signal post

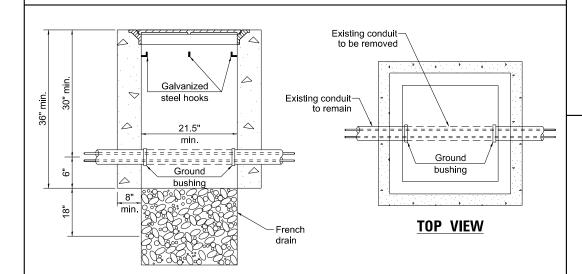
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> STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

SCALE: NTS

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

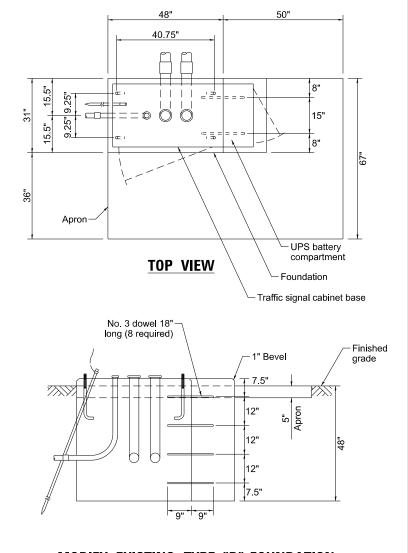
HANDHOLE WITH MINIMUM CONDUIT DEPTH



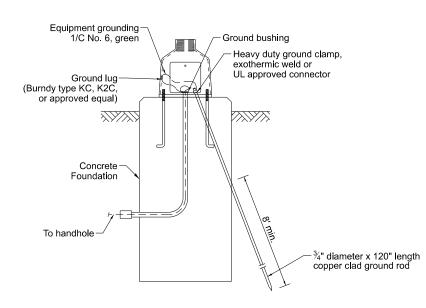
NOTES:

- 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.

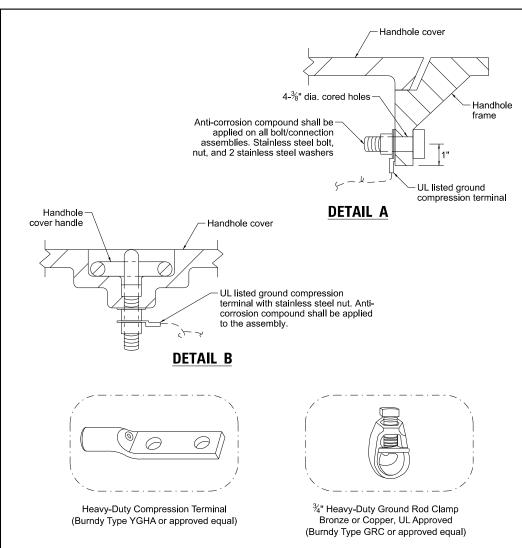
HANDHOLE TO INTERCEPT EXISTING CONDUIT



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

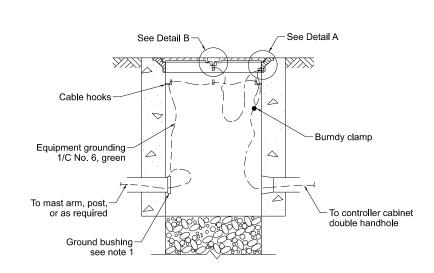


MAST ARM / POST GROUNDING DETAIL



NOTES:

- 1. CONDUIT THAT HAS BEEN DRILLED INTO AN EXISTING HANDHOLE WILL REQUIRE A GROUND BUSHING FOR THE CONDUIT TO BE PROPERLY GROUNDED.
- GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES.
 6.5' OF SLACK SHALL BE PROVIDED IN SINGLE AND DOUBLE HANDHOLES.
 5' OF SLACK SHALL BE PROVIDED BETWEEN THE FRAME AND COVER.



HANDHOLE GROUNDING DETAIL

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 1
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SHEET 6 OF 7 SHEETS STA. TO ST.

SCALE: NTS

F.A. SECTION COUNTY TOTAL SHEETS NO.

TS-01 CONTRACT NO.

ILLINOIS FED. AID PROJECT

TS SHT NO.6



USER NAME = lovan plascencia

PLOT DATE =

DESIGNED - IP

DRAWN - IP

DATE

CHECKED - NB/KK

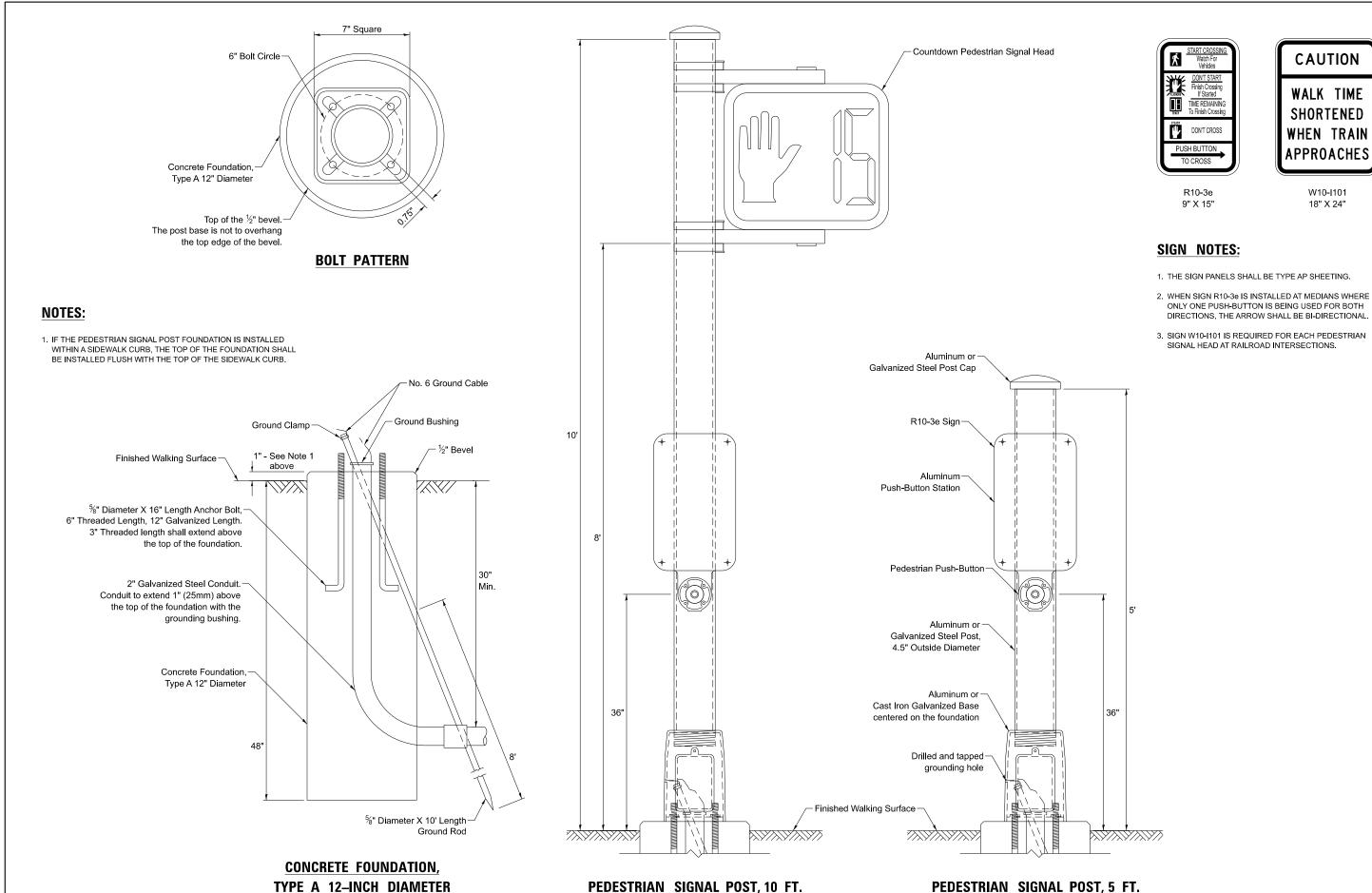
- 10/15/2025

REVISED -

REVISED -

REVISED -

REVISED -





SCALE: NTS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

S ⁻	FANDARD			STRICT '	-	N DETAILS
	SHEET 7	OF	7	SHEETS	STA.	TO STA.

RTE	SEC	COUNTY	SHEETS	N		
	TS-01		CONTRACT	NO.		
		ILLINOIS	FED. All	D PROJECT		

CAUTION

WALK TIME SHORTENED

WHEN TRAIN

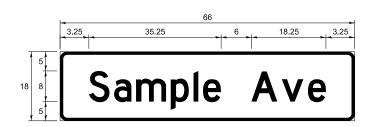
APPROACHES

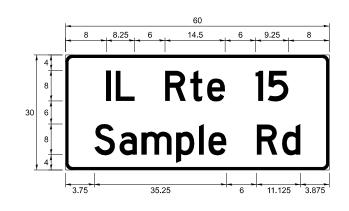
W10-I101

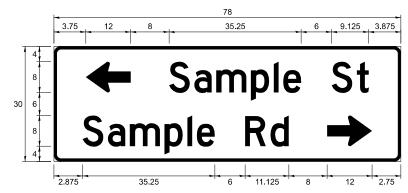
18" X 24"

SIGN PANEL – TYPE 1 OR TYPE 2

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE







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

COMMON STREET NAME ABBREVIATIONS

NAME	ABBREVIATION	LENGTI	H (INCH)	
NAME	ABBREVIATION	SERIES "C"	SERIES "D"	
Avenue	Ave	15	18.25	
Boulevard	Blvd	17.125	20	
Circle	Cir	11.125	13	
Court	Ct	8.25	9.625	
Drive	Dr	8.625	10.125	
Highway	Hwy	18.375	22	
Illinois	IL	7	8.25	
Lane	Ln	9.125	10.75	
Parkway	Pkwy	23.375	27.375	
Place	PI	7.125	7.75	
Road	Rd	9.625	11.125	
Route	Rte	12.625	14.5	
Street	St	8	9.125	
Terrace	Ter	12.625	14.625	
Trail	Tr	7.75	9.125	
United States	US	10.375	12.25	

GENERAL NOTES

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

LOCAL SUPPLIERS: PARTS LISTING:

- J.O. HERBERT COMPANY, INC MIDLOTHIAN, VA

-SIGN CHANNEL PART #HPN053 (MED. CHANNEL)

-SIGN SCREWS 1/4" x 14 x 1" H.W.H. #3

- WESTERN REMAC, INC. WOODRIDGE, IL

SELF TAPPING WITH NEOPRENE WASHER

-BRACKETS

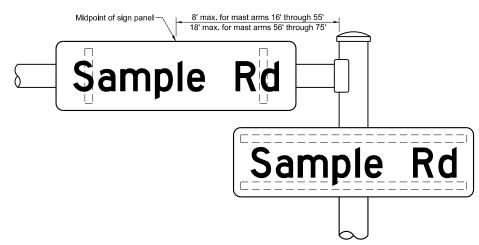
PART #HPN034 (UNIVERSAL)

CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING

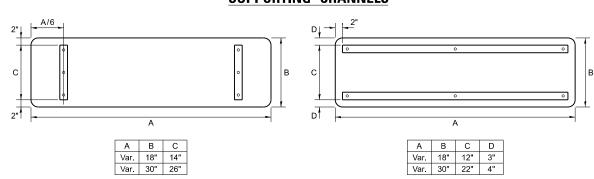
OTHER BRANDS OF MOUNTING HARDWARE ARE ACCEPTABLE, BASED UPON THE DEPARTMENT'S APPROVAL AND COMPATIBILITY WITH THE CHANNEL/BRACKET OF THE ABOVE PRODUCT.

MOUNTING LOCATIONS

ARM OR POLE MOUNTED



SUPPORTING CHANNELS



STANDARD ALPHABETS SPACING CHART

MEASUREMENTS BASED ON 8" UPPER CASE LETTER HEIGHT

		RIES "C"		FHWA SERIES "D"								
CHARACTER	LEFT SPACING (INCH)	WIDTH (INCH)	RIGHT SPACING (INCH)	CHARACTER	LEFT SPACING (INCH)	WIDTH (INCH)	RIGHT SPACIN (INCH)					
Α	0.240	5.122	0.240	A	0.240	6.804	0.240					
В	0.880	4.482	0.480	В	0.960	5.446	0.400					
С	0.720	4.482	0.720	С	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 H	0.720 0.880	4.482 4.482	0.720	G H	0.800	5.446 5.446	0.800					
1	0.880	1.120	0.880	1	0.960	1.280	0.960					
j	0.240	4.082	0.880	j	0.240	5.122	0.960					
К	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					
М	0.880	5.284	0.880	М	0.960	6.244	0.960					
N	0.880	4.482	0.880	N	0.960	5.446	0.960					
0	0.720	4.722	0.720	0	0.800	5.684	0.800					
Р	0.880	4.482	0.720	Р	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					
V	0.880	4.482	0.880	V	0.960	5.446	0.960					
W	0.240 0.240	4.962 6.084	0.240	W	0.240	6.084 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					
С	0.480	4.002	0.240	С	0.480	4.722	0.240					
d	0.480	4.082	0.720	d	0.480	4.802	0.800					
е	0.480	4.082	0.320	е	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 4.322	0.720	j	0.000	2.642	0.800					
k I	0.720 0.720	1,120	0.160	k	0.800	5.122 1.280	0.160					
m	0.720	6.724	0.720	m	0.800	7.926	0.720					
n	0.720	4.082	0.640	n	0.800	4.722	0.720					
0	0.480	4.082	0.480	0	0.480	4.882	0.480					
р	0.720	4.082	0.480	р	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					
У	0.160	4.962	0.160	У	0.160	6.004	0.160					
2 1	0.240 0.720	3.362 1.680	0.240 0.880	1 1	0.240	4.002 2.000	0.240					
2	0.720	4.482	0.880	2	0.800	5.446	0.800					
3	0.480	4.482	0.480	3	1.440	5.446	0.800					
4	0.400	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					

USER NAME = lovan plascencia	DESIGNED	-	IP	REVISED	-
	DRAWN	-	IP	REVISED	-
	CHECKED	-	NB	REVISED	-
PLOT DATE =	DATE	_	10/15/2025	REVISED	-

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

SCALE: NTS

	DISTRICT 1 MAST ARM MOUNTED STREET NAME SIGNS SHEET 1 OF 1 SHEETS STA TO STA		F.A. SI		SECTION		TOTAL SHEETS	SHEET NO.		
	GNS									
1012			TS-02			CONTRACT NO.				
9	SHEET 1 OF	1 SHEETS!	STA	TO STA			ILLINOIS FED AL	D PPO IECT		

SCALE:

SHEET

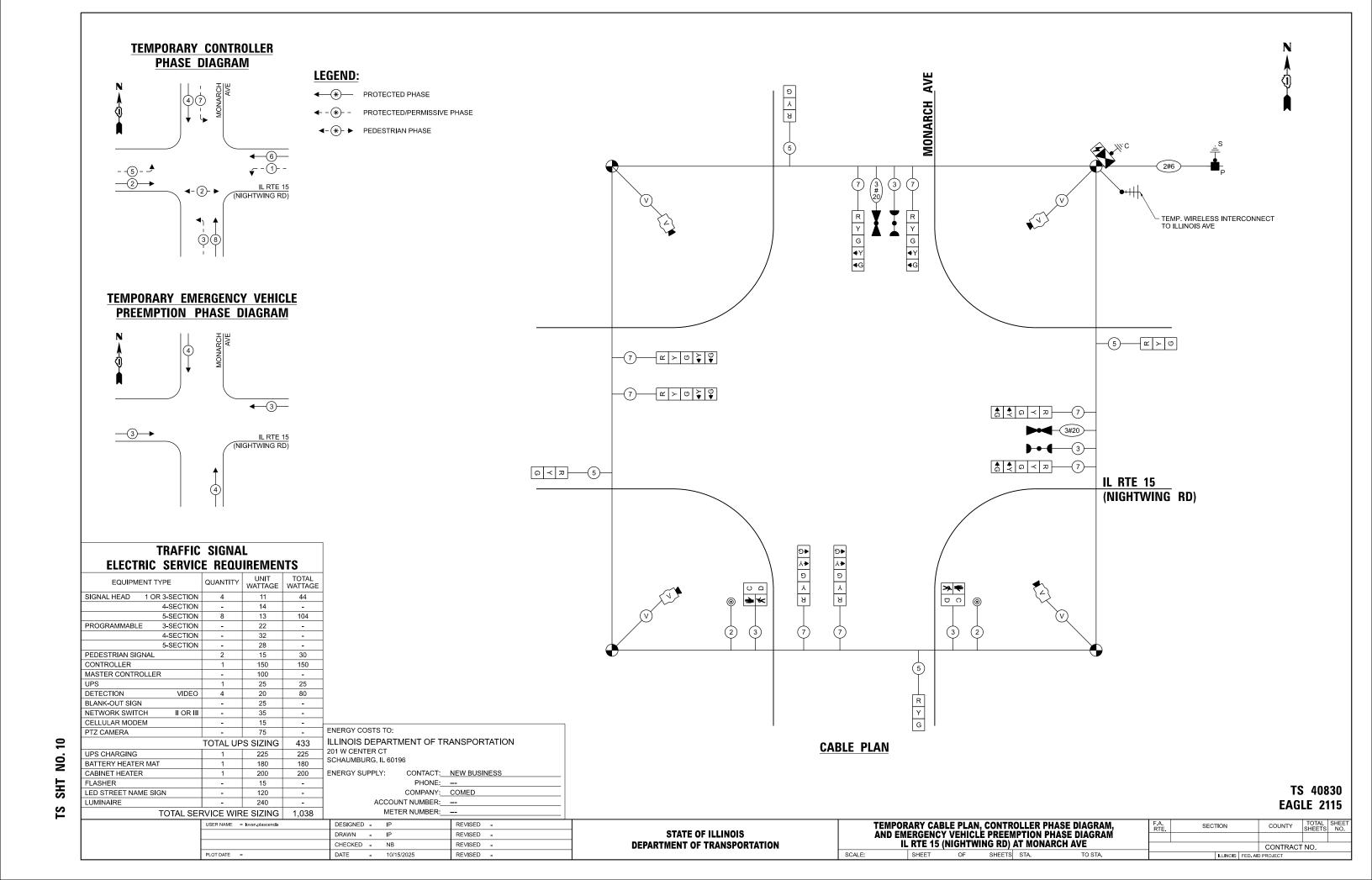
SHEETS STA.

PLOT DATE =

DATE

- 10/15/2025

REVISED -



SCALE:

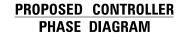
SHEETS STA.

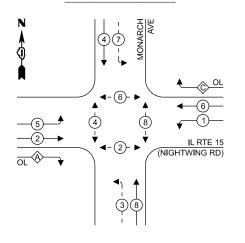
CONTRACT NO.

DATE

- 10/15/2025

REVISED -





LEGEND:

◆ PROTECTED PHASE

← - ** - PROTECTED/PERMISSIVE PHASE

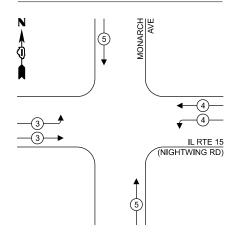
√- (*)- PEDESTRIAN PHASE

OL OVERLAP

RIGHT TURN OVERLAP PHASE DESIGNATION:

OVERLAP		PERMISSIVE		PROTECTED				
LETTER		PHASE		PHASE				
Α	-	2	+	3				
С	=	6	+	7				

PROPOSED EMERGENCY VEHICLE PREEMPTION PHASE DIAGRAM



NOTES:

1. ALL RED SIGNAL INDICATIONS SHALL HAVE A LENS COVER.

ı	KAFFIC	SIGNA	L	
ELECTRIC	SERVIC	E REQU	IREMEN	ITS
EQUIPMENT TY	PE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD 1 OR	3-SECTION	14	11	154
	4-SECTION	-	14	-
	5-SECTION	8	13	104
PROGRAMMABLE	3-SECTION	-	22	-
	4-SECTION	-	32	-
	5-SECTION	-	28	-
PEDESTRIAN SIGNAL		8	15	120
CONTROLLER		1	150	150
MASTER CONTROLLER		-	100	-
UPS		1	25	25
DETECTION	VIDEO	-	20	-
BLANK-OUT SIGN		-	25	-
NETWORK SWITCH	II OR III	-	35	-
CELLULAR MODEM		-	15	-
PTZ CAMERA		-	75	-
		TOTAL UP	S SIZING	553
UPS CHARGING		1	225	225
BATTERY HEATER MAT		1	180	180

200

15

120

240

TOTAL SERVICE WIRE SIZING 1,158

PLOT DATE =

JSER NAME = lovan plascencia

200

DESIGNED - IP

DRAWN - IP

CHECKED - NB

DATE - 10/15/2025

TRAFFIC CICNIAL

ENERGY COSTS TO: ILLINOIS DEPARTMENT OF TRANSPORTATION 201 W CENTER CT SCHAUMBURG, IL 60196 ENERGY SUPPLY: CONTACT: NEW BUSINESS PHONE: -COMPANY: COMED ACCOUNT NUMBER: -METER NUMBER: --

REVISED -

REVISED -

REVISED -

REVISED -

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

MONARCH PR. TYPE IV STRETCHED CABINET PR. TRACER CABLE ≫₹ ပြ 0 0 - PR. INTERCONNECT (5) 233 C > O 3#20 113 (1P) 5 257 PY > U -(1P) 237 G ≺ ⊅ 257 5 (1P) 237 □ < D 245 5 IL RTE 15 (NIGHTWING RD) (P) ₹ G ≺ Z 220 (7) APS @ 213 (2) 2) 321 ® APS 207 D R **>> ●** APS 🔘 APS 7 (5) (3) (1P) **CABLE PLAN** TS 40830 **EAGLE 2115**

CABLE PLAN, CONTROLLER PHASE DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION PHASE DIAGRAM IL RTE 15 (NIGHTWING RD) AT MONARCH AVE

SHEET

SHEETS STA.

COUNTY

CONTRACT NO.

SECTION

TS SHT NO. 13

CABINET HEATER

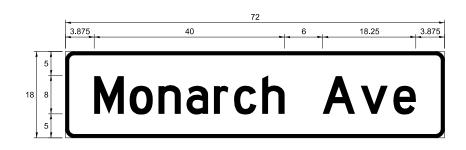
LED STREET NAME SIGN

FLASHER

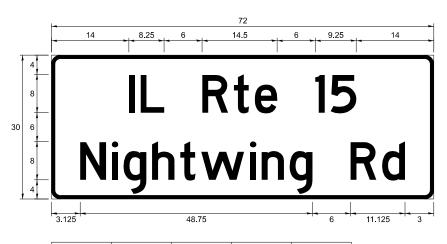
LUMINAIRE

SIGN PANEL - TYPE 1 OR TYPE 2

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



DESIGN	AREA	SIGN PANEL	SHEETING	QTY
SERIES	(SQ FT)	TYPE	TYPE	REQUIRED
D	9	1	ZZ	



DESIGN	AREA	SIGN PANEL	SHEETING	QTY
SERIES	(SQ FT)	TYPE	TYPE	REQUIRED
D	15	2	ZZ	

NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION SEE DISTRICT STANDARD TS-02 - MAST ARM MOUNTED STREET NAME SIGNS.

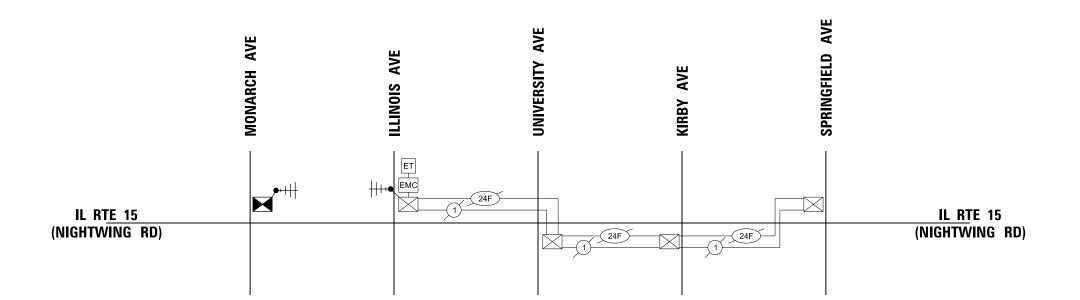
SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTA QTY
SIGN PANEL - TYPE 1	SQ FT	48
SIGN PANEL - TYPE 2	SQ FT	30
JNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	949
JNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	148
JNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	533
HANDHOLE	EACH	4
HEAVY-DUTY HANDHOLE	EACH	4
DOUBLE HANDHOLE	EACH	2
TRANSCEIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1,53
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	2,15
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	3,21
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1,71
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	3,94
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 FAIR ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	115
· · · · · · · · · · · · · · · · · · ·	FOOT	965
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	EACH	965
TRAFFIC SIGNAL POST, 16 FT.		
STEEL MAST ARM ASSEMBLY AND POLE, 44 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 54 FT.	EACH	2
STEEL MAST ARM ASSEMBLY AND POLE, 56 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	20
CONCRETE FOUNDATION, TYPE D	FOOT	4
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	43
CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	21
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	10
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	5
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	3
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	13
NDUCTIVE LOOP DETECTOR	EACH	15
DETECTOR LOOP, TYPE I	FOOT	1,40
LIGHT DETECTOR	EACH	3
LIGHT DETECTOR AMPLIFIER	EACH	1
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	10
REMOVE EXISTING CONCRETE FOUNDATION	EACH	9
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	588
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
PEDESTRIAN SIGNAL POST, 10 FT.	EACH	2
FULL-ACTUATED CONTROLLER AND TYPE IV STRETCHED CABINET (SPECIAL)	EACH	1
JNINTERRUPTABLE POWER SUPPLY AND CABINET (SPECIAL)	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	8
LED SIGNAL FACE, LENS COVER	EACH	22
· · · · · · · · · · · · · · · · · · ·		
TEMPORARY TRAFFIC SIGNAL TIMING	EACH EACH	1
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	1

* 100% COST TO THE CITY OF JUNIPER

TS 40830 EAGLE 2115

USER NAME = lovan plascencia	DESIGNED -	IP	REVISED -		MAST ARM MOUNTED STREET NAME SIGNS					F.A. RTE	SECTION	COUNTY	TOTAL SHEET
	DRAWN -	IP	REVISED -	STATE OF ILLINOIS	AND SCHEDULE OF QUANTITIES			11.12.			0112210 1101		
	CHECKED -	NB	REVISED -	DEPARTMENT OF TRANSPORTATION	IL RTE 15 (NIGHTWING RD) AT MONARCH AVE						CONTRACT NO		
PLOT DATE =	DATE -	10/15/2025	REVISED -		SCALE:	SHEET OF)F	SHEETS STA.	TO STA.		ILLINOIS FED. AI	D PROJECT	



EAGLE 2115

USER NAME = lovan.plascencia	DESIGNED - IP	REVISED -		TEMPORARY INTERCONNECT SCHEMATIC			HEMATIC	F.A. RTE	SECTION	COUNTY	TOTAL	SHEET		
	DRAWN - IP	REVISED -	STATE OF ILLINOIS		IL RTE 15 (NIGHTWING RD) - MONARCH AVE TO SPRINGFIELD			IXIE.			OFFICE			
	CHECKED - NB	REVISED -	DEPARTMENT OF TRANSPORTATION				MONARCH AVE TO SPRINGFIELD AVE		D AVE			CONTRACT		\neg
PLOT DATE =	DATE - 10/15/2025	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJ		ED. AID PROJECT		

TS SHT NO. 15

CONTRACT NO.

OF SHEETS STA.

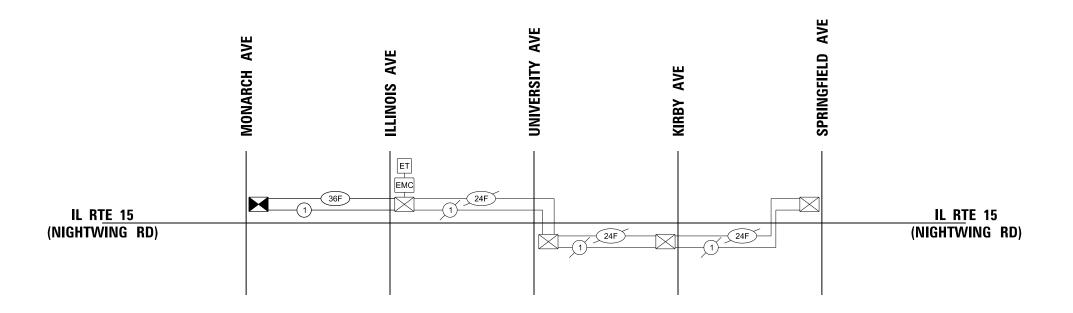
REVISED -

REVISED -

DATE - 10/15/2025

1. THE SCAT CONSULTANT WILL DETERMINE THE LOCATIONS OF THE SYSTEM DETECTORS.





SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY	
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	400	
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1	
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	1,690	
DRILL EXISTING HANDHOLE	EACH	1	
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	2,080	
ROD AND CLEAN EXISTING CONDUIT	FOOT	866	
FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F	FOOT	1,750	

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

TS SHT NO. 17

EAGLE 2115

USER NAME = lovan.plascencia	DESIGNED -	IP	REVISED -		PROPOSED INTERCONNECT SCHEMATIC AND SCHE			SCHEDULE OF QUANTITIES	F.A.	SECTION	COUNTY TOTA	AL SHEET	
	DRAWN -	IP	REVISED -	STATE OF ILLINOIS		IL RTE 15 (NIGHTWING RD) -			· KD) -	IXIE.		OTILL	10 110.
	CHECKED -	NB	REVISED -	DEPARTMENT OF TRANSPORTATION	MONARCH AVE TO SPRINGFIELD AVE SCALE: SHEET OF SHEETS STA.			FIELD AVE			CONTRACT NO.		
PLOT DATE =	DATE -	10/15/2025	REVISED -					A. TO STA.		ILLINOIS FED. AI	ID PROJECT		