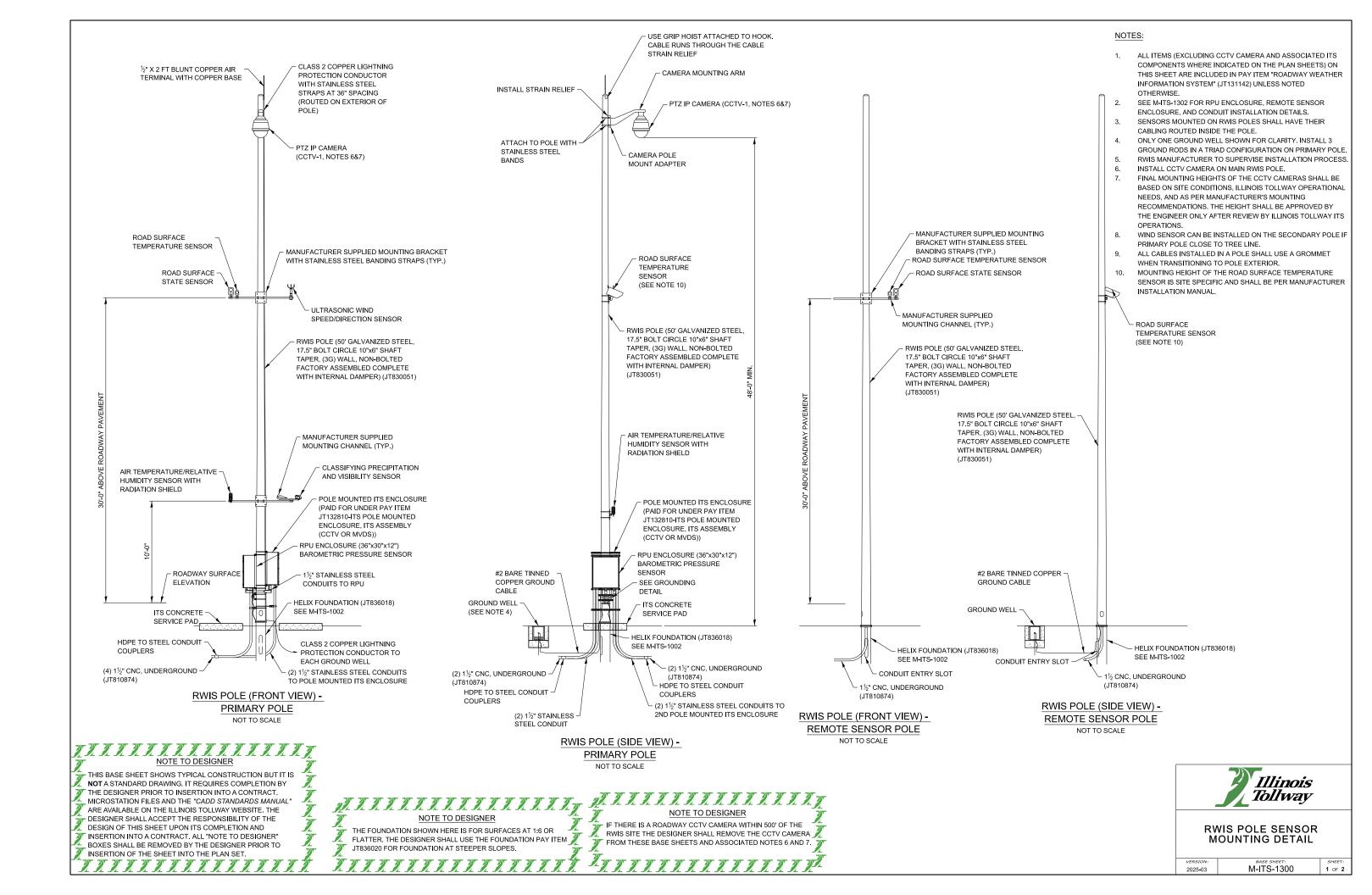
Illinois Tollway Base Sheet Revisions

Section M	Base Sheet Drawings		
	Drawing	Modification Summary Effect	ctive: 03-01-2025
		Boodway Weather Information System (ITS) Series 1200	
		Roadway Weather Information System (ITS)-Series 1300	
	M-ITS-1300	RWIS Pole, Sensor Mounting Detail	
	Sheet 1	Revised Note 1:" excluding CCTV camera and associated ITS component where plan sheets"	e indicated on the
		Revised Note 7 to replace word "placement" by "mounting"	
		Revised Note 9 to add: " when transitioning to pole exterior"	
		Revised ratio 6:1 to say 1:6	
	Sheet 2	Revised Note 15 to replace the word "placement" with "mounting"	
	M-ITS-1301	RWIS Cabinet Wiring Diagram	
	Sheet 1	Revised layout of Cisco switch to match the details of Cisco IE-3300-8T2S-E	
		Revised item to call Cisco IE-3300-8T2S-E	
		Revised layout to add access door through the Plexiglas cover to give easy access programing	s to IP Relay for
		Revised Cisco license to connect to Cisco IE-3300-8TS2-E	
	Sheet 2	Revised item DES511 (EB) to say: DRS511 (EB/NB)	
		Revised item DES511 (EB) to say: DRS511 (WB/SB))	

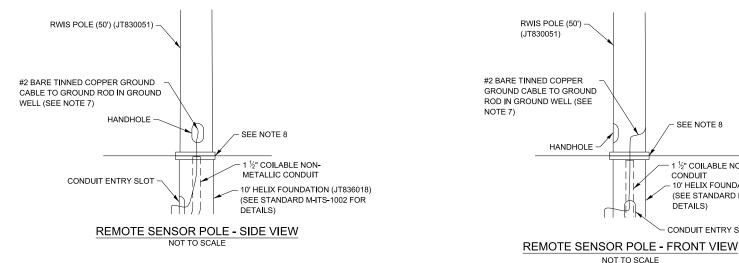
New Sheet

Retired Standard

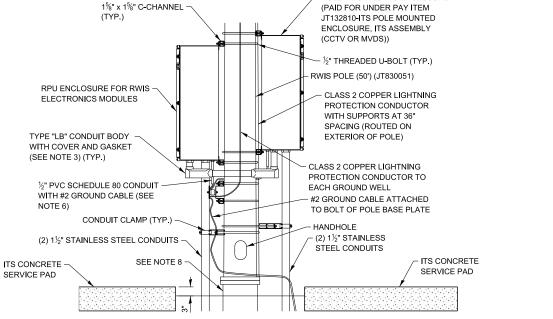


GENERAL NOTES:

- 1. RWIS POLES SHIELDED BY GUARDRAIL SHALL BE LOCATED A MINIMUM OF 5' BEHIND THE GUARDRAIL POST. SEE ILLINOIS TOLLWAY GUARDRAIL STANDARD (SECTION C OF STANDARDS) FOR MORE INFORMATION. ALL OTHER POLES SHALL BE LOCATED OUTSIDE THE CLEAR ZONE. FINAL LOCATION TO BE APPROVED BY THE ENGINEER.
- ANY GROUND CABLES ROUTED INSIDE THE ENCLOSURE SHALL BE GREEN 2. INSULATED TYPE RHW CONDUCTORS. ANY GROUND CONDUCTORS THAT ARE BURIED SHALL BE BARE COPPER TINNED. ANY GROUND CONNECTED TO THE EXTERNAL GROUND BUSBAR SHALL BE EXOTHERMICALLY WELDED TO THE BUSBAR.
- PROVIDE A 1½" STAINLESS STEEL CONDUIT NIPPLE WITH LB FITTING FOR ROUTING 3. ITS ELEMENT CABLES INSIDE THE POLE TO THE EQUIPMENT ENCLOSURE. DRILL AND TAP POLE FOR THE CONDUIT NIPPLE. CABLE SLACK SHALL BE PULLED AND FASTENED WITHIN THE TOP OF THE POLE. PROPER CABLE STRAIN RELIEF SHALL BE INSTALLED AND APPROVED BY THE ENGINEER. ALL CABLE RUN INSIDE THE POLE SHALL NOT HANG BELOW THE TOP OF THE HANDHOLE COVER ON THE POLE.
- 4. ALL CONDUITS ENTERING THE ENCLOSURE SHALL BE SEALED. SEE "ITS POLE MOUNTED ENCLOSURE, ITS ASSEMBLY (CCTV OR MVDS)" SPECIAL PROVISION FOR MORE DETAIL FOR RODENT PROTECTION.
- 5. CONTRACTOR TO PROVIDE ALL POWER, COMMUNICATIONS AND GROUND WIRING REQUIRED FOR SYSTEM OPERATION.
- ATTACH PVC SCH 80 CONDUIT TO ENCLOSURE FOR SUPPORT. USE METAL BUSHING 6. WHEN CONNECTING PVC TO CABINET. USE GROMMETS AT BOTH ENDS OF CONDUIT TO SEAL CONDUIT TO PREVENT RODENTS AND INSECTS FROM ENTERING, BUT ALLOW GROUND CABLE TO RUN THROUGH BOTH ENDS.
- GROUND RODS SHALL BE PLACED A MINIMUM OF 10' FROM THE FOUNDATION. A 7. GROUND WELL SHALL BE INCLUDED TO PERMIT ACCESS TO THE GROUND ROD CONNECTION CONNECTION TO THE GROUND BUSBAR AND THE GROUND ROD SHALL BE EXOTHERMICALLY WELDED.
- 8. A FLAT STEEL MESH PANEL ALONG WITH A COMMERCIALLY AVAILABLE HYDROPHOBIC LOW DENSITY COMPOSITE BACKFILL MATERIAL (KNOWN AS Q-SET 250) SHALL BE INSTALLED BETWEEN THE ANCHOR BASE AND THE POLE TO PREVENT THE ENTRY OF RODENTS INTO THE POLE. SEE SPECIAL PROVISIONS FOR MORE DETAILS.
- BACKFILL PER ILLINOIS TOLLWAY STANDARD H1. BACKFILL SHALL BE TO THE TOP OF 9. THE POLE BASE ON ALL SIDES.
- 10. ALL CABLING (INCLUDING CABLING INSIDE THE ENCLOSURE) SHALL BE OUTDOOR RATED.
- 11. INSTALL CONCRETE SERVICE PAD(S) 6 INCHES FROM THE POLE BASE ON THE SAME SIDE AS THE RPU AND ITS CABINET, IF PRESENT, CENTERED ON THE RPU AND/OR ITS ENCLOSURE
- 12. THIRTY DAYS PRIOR TO INSTALLING ANY SENSORS, THE CONTRACTOR SHALL COORDINATE DEVICE CONFIGURATION WITH THE ENGINEER
- 13. THE DISCONNECT SWITCH, SUPPORT, AND ASSOCIATED CONDUIT SHALL BE INSTALLED FOR RWIS SITES WHERE THE UTILITY SERVICE INSTALLATION IS GREATER THAN 500 FEET FROM THE RPU ENCLOSURE OR LOCATED ON THE OPPOSITE SIDE OF THE ROADWAY FROM THE RPU ENCLOSURE
- 14. ALL SLOPE RATIOS ARE EXPRESSED AS UNITS OF VERTICAL DISPLACEMENT TO UNITS OF HORIZONTAL DISPLACEMENT (V:H).
- 15. FINAL MOUNTING HEIGHTS OF THE SENSORS SHALL BE BASED ON SITE CONDITIONS, ILLINOIS TOLLWAY OPERATIONAL NEEDS AND AS PER MANUFACTURER'S MOUNTING RECOMMENDATIONS. THE HEIGHT SHALL BE APPROVED BY THE ENGINEER ONLY AFTER REVIEW BY ILLINOIS TOLLWAY ITS OPERATIONS.
- THE CONTRACTOR SHALL ENGAGE THE RWIS MANUFACTURER TO BE PRESENT ON 16. SITE DURING THE INSTALLATION AND COMMISSIONING OF ALL RWIS EQUIPMENT, INCLUDING RWIS PRIMARY AND SECONDARY POLES AND ALL RWIS SENSORS AND CABINET EQUIPMENT. THE SITE ACCEPTANCE MUST BE SIGNED BY THE RWIS MANUFACTURER PRIOR TO SITE ACCEPTANCE BY THE TOLLWAY/GEC ITS UNIT.



POLE MOUNTED ITS ENCLOSURE



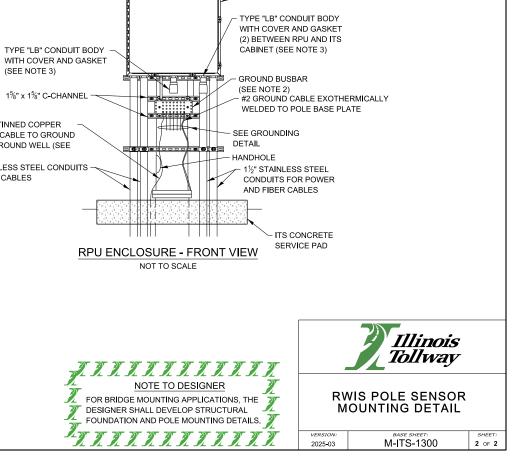
RPU ENCLOSURE - SIDE VIEW NOT TO SCALE

(SEE NOTE 3) 1%" x 1%" C-CHANNEL

#2 BARE TINNED COPPER GROUND CABLE TO GROUND ROD IN GROUND WELL (SEE NOTE 7) 1¹/₂" STAINLESS STEEL CONDUITS FOR RWIS CABLES







RWIS POLE (50') (JT830051)

OR MVDS))

RPU ENCLOSURE

POLE MOUNTED ITS ENCLOSURE

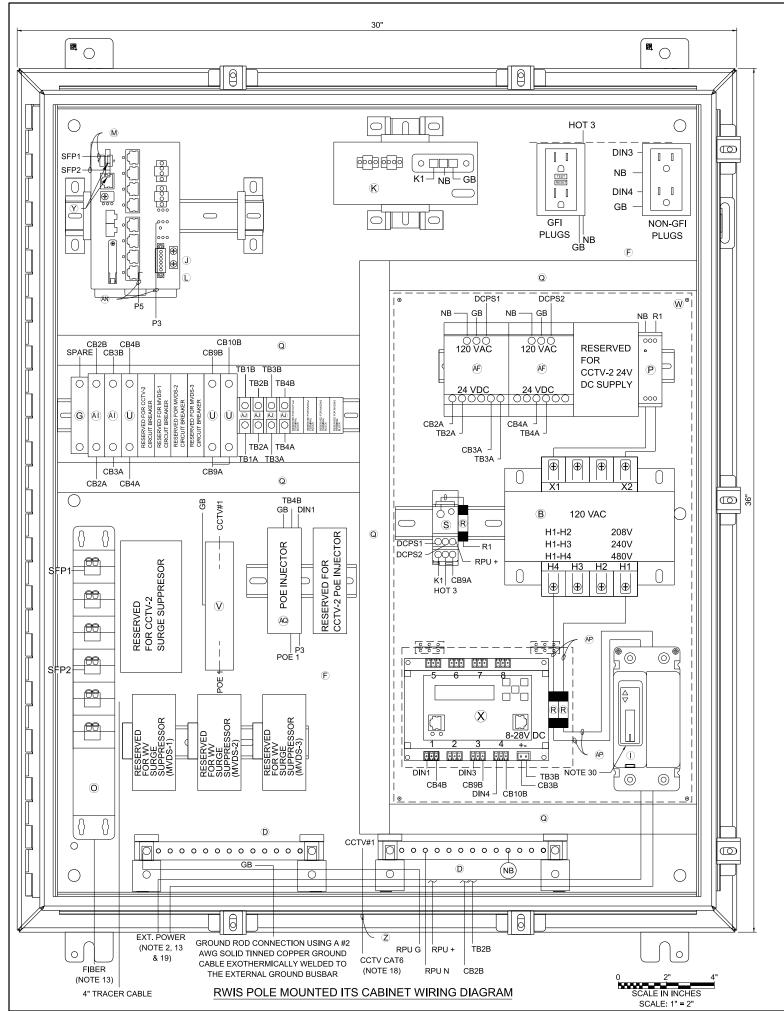
ENCLOSURE, ITS ASSEMBLY (CCTV

(PAID FOR UNDER PAY ITEM

JT132810-ITS POLE MOUNTED



SEE NOTE 8



ITEM DESCRIPTION

- NOT USED FOR THIS SHEET APPLICATION A
- (**B**) CONTROL POWER TRANSFORMER, 1000VA, 208/240/480-120VAC, 1PH, SQU D/CLASS 9070 - T1000 D95
- NOT USED FOR THIS SHEET APPLICATION (\mathbf{C})
- D TWO (2) GROUNDING BAR SYSTEM HOFFMAN/PGS2K. BONDED OR SEPARATED AS REQUIRED.
- (Ê) NEMA 4X STAINLESS STEEL, 36"H X 30"W X 12"D ENCLOSURE WITH 33"X27 PANEL, HOFFMAN/A36H3012SS6LP & A36P30
- TWO DUPLEX 120V RECEPTACLES, ONE GFCI AND NON-GFI (SEE NOTE 9), (F)
- HUBBELL/GFR5362 & BR20WR
- 24VDC, 1P, 15A CIRCUIT BREAKER, SCHNEIDER ELECTRIC/MGN61510 G
- NOT USED FOR THIS SHEET APPLICATION (Ĥ)
- 480V, 2P, 30A CIRCUIT BREAKER WITH TERMINAL SHIELD, EATON/HFD203 625B229G07
- (\mathbf{J}) NETWORK SWITCH CISCO IE-3300-8T2S-E
- CISCO POWER SUPPLY, PWR-IE170W-PC-AC= ĸ
- (\mathbb{L}) IP SERVICES LICENSE: L-IE3300-DNS-A-3Y
- (M)NOT USED FOR THIS SHEET APPLICATION
- (\mathbf{N}) NOT USED FOR THIS SHEET APPLICATION
- 0 SMF PATCH PANEL WITH LC CONNECTORS 120VAC SURGE SUPPRESSOR, MOUNTED ON DIN RAIL, COOPER CROUSE (\mathbf{P})
- HINDS/MA15/D/1/SLOB APPROVED FOUAL Q PANDUIT WIRING DUCT (OR EQUIVALENT), PANDUIT/F1X2LG6 WITH COVE
- C1LG6 10 AMP FUSE, GOULD (MERSEN)/ATM-10 R
- SPLICE BLOCK, ALTECH/38041 S
- \odot NOT USED FOR THIS SHEET APPLICATION
- $\langle \mathbf{U} \rangle$ 5A CIRCUIT BREAKER, ALLEN BRADLEY/1492-SPM1B050
- CAT6 PoE+ SURGE SUPPRESSOR: USE AXIS T8061 FOR AXIS PoE CAMERA $\langle \mathbf{V} \rangle$
- CLEAR POLY METHYL METHACRYLATE (PMMA, PLEXIGLAS) SAFETY COVE Ŵ ENCOMPASSING ITEMS AF, P, S, R, B, X, & I. (THE INSTALLER SHALL PERMANENTLY AFFIX A LABEL STATING "DANGER 480 VAC" OR "DANGER VAC" OR "DANGER 120 VAC" FOR 120 VAC AS FIELD CONDITIONS WARRA COMES WITH ACCESS DOOR TO IP RELAY. REFER TO ITEM X.
- POWER CONTROLLER, 8-CHANNEL DIN ETHERNET RELAY, DIGITAL X LOGGERS/DIN 4
- (2) CISCO GLC-LX-SM-RGD = 1 GBPS SM SFP MODULES $\langle \mathbf{Y} \rangle$
- CATEGORY 6 CABLE, 23 AWG, OUTDOOR RATED CABLE BELDEN/7953A (Z)
- (AA) NOT USED FOR THIS SHEET APPLICATION
- AB NOT USED FOR THIS SHEET APPLICATION
- (AC) NOT USED FOR THIS SHEET APPLICATION
- Æ NOT USED FOR THIS SHEET APPLICATION
- RS-232 / RS-485 TO ETHERNET CONVERTOR, WAVETRONIX CLICK-301 OF (AE) ISS-MOXA P5150T, DK-35T
- (AF) AC/DC POWER SUPPLY, 24VDC WAVETRONIX - CLICK-204 OR ISS LAMBDA DSP100-24
- ÂĞ NOT USED FOR THIS SHEET APPLICATION
- (AH) NOT USED FOR THIS SHEET APPLICATION
- (AI) 2A CIRCUIT BREAKER, ALLEN BRADLEY/1492-SPM1B020
- TERMINAL BLOCK, ALLEN BRADLEY/1492-CD8 (ÂJ)
- NOT USED FOR THIS SHEET APPLICATION (AK)
- (AL) TRANSFORMER COVERS, SQUARE D/9070FSC2
- (AM) 5-CONDUCTOR JUMPER (Tx, Rx, GND, RTS, CTS), RS-232 SERIAL COMMUNICATIONS (APPLICABLE TO ISS/MOXA)
- INDOOR/OUTDOOR RATED CAT6 (1000MBS, TEMPERATURE HARDENED) (AN) THESE ARE THE CAT6 CABLES ROUTED INSIDE CABINET
- MVDS CABLE
- (AO) (AP) #10 AWG

ENCLOSURE.

(AR)

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- ÂQ PoE INJECTOR AXIS T8144 24VDC (ONLY REQUIRED FOR PoE CAMERAS)
- T-BUS CONNECTOR (WAVETRONIX) ルエエエル
- NOT USED FOR THIS SHEET APPLICATION
- 1 1 1 1 1 1 1 1 1 1 1 1 1 1
- NOTE TO DESIGNER
- DSE SHALL SPECIFY THE GATOR PATCH CABLE LENGTH PER SITE AND UPDATE ITEM (O) TO INCLUDE THIS LENGTH.
- IF THERE IS NO CCTV IN 400 FEET FROM RWIS PRIMARY POLE THEN INSTALL A CCTV AND ITS
- INSERTION OF THE SHEET INTO THE PLAN SET. <u>I</u>TATATAT<u>TATTŤ</u> ^_______

	NOTES:			
UARE	1. 2.	ALL POWER WIRING SHALL BE RHH/RHW WITH WIRE TERMINALS OR TINNED. CONTRACTOR TO VERIFY CORRECT TRANSFORMER TAPS ARE USED BASED ON INCOMING POWER SOURCE.		
	3.	ALL CABLES AND EQUIPMENT SHALL BE PROPERLY DRESSED AND LABELED. ALL		
		CONDUITS SHALL BE PROPERLY PLUGGED WITH DUCT SEAL PUTTY (RAINBOW		
		TECHNOLOGIES OR EQUIVALENT).		
27"	4.	NOT USED FOR THIS SHEET APPLICATION.		
		EACH 120VAC OUTLET, PS OR TRANSFORMER (ITEM F, K, L, & AF) SHALL BE FED		
5.				
I),	<u> </u>	FROM A SEPARATE INPUT LINE.		
	6.	THE DIN RAIL(S) FOR ITEMS J & K SHALL BE INSTALLED WITH THE CENTER LINE NO LESS THAN 5 INCHES FROM ANY OBSTACLE ABOVE AND NO LESS THAN 4 INCHES		
30L& 7.	7	FROM ANY OBSTACLE BELOW. ALL DIN RAIL SHALL BE GROUNDED.		
30L& 7.		ALL CABLES INSTALLED WITHIN THE CABINET AND POLE SHALL BE OUTDOOR		
	•			
8.		WIFI COMMUNICATION SHALL BE DISABLED ON DIN ETHERNET RELAY.		
	9.	THE GFI OUTLETS LOAD SHALL NOT BE CONNECTED TO ANY OTHER LOAD IN THE ENCLOSURE. THE 1900 QUAD BOX GFI'S ARE INTENDED TO BE UTILIZED FOR		
		EXTERNAL EQUIPMENT ONLY. EACH OUTLETS TAB SHALL BE BROKEN SO THEY ARE		
	40			
-	10.	ALL BREAKERS SHALL BE LABELED (E.G. CAMERA-AC, CAMERA-DC, DIN RELAY-AC,		
E	44	DIN RELAY-DC, CELL MODEM-AC ETC.).		
-0	11.	NOT USED FOR THIS SHEET APPLICATION.		
ER-	12.	USE THE MOUNTING TABS ON THE IP RELAY UNIT TO MOUNT THE UNIT DIRECTLY		
	13.	TO THE BACK PLATE. REFER TO THE IP RELAY WIRING TABLE FOR WIRING DETAILS. ALL CABLES SHALL ENTER THE ENCLOSURE FROM THE BOTTOM. ALL POWER AND		
	13.	COMMUNICATION CABLE SLACK SHALL BE PLACED IN THE HANDHOLE.		
	14.	POWER FEED TO THE CISCO IE4000 SWITCH SHALL BE FROM THE 120VAC INPUT		
	14.	WHEN THE ENCLOSURE IS AC POWERED.		
	15.	NOT USED FOR THIS SHEET APPLICATION.		
	15. 16.	IF A SOLAR GENERATOR IS CONNECTED, THEN ITEM P AND THE SECONDARY SIDE		
ER	10.	OF ITEM B SHALL BE CONNECTED UNTIL A FINAL AC CONNECTION IS MADE.		
R 240	17.	ITEM X IS USED TO CONTROL POWER TO THE CAMERAS AND DETECTORS. ALL		
NT.)		120VAC CONNECTIONS ON ITEM X SHALL BE PROTECTED.		
	18.	CABLES TO BE ROUTED THROUGH POLE.		
	19.	WHEN A 24VDC TO 120VAC POWER GENERATOR IS CONNECTED, THEN THE 480VAC		
	10.	TO 120VAC STEP DOWN TRANSFORMER IS BYPASSED.		
	20.	NOT USED FOR THIS SHEET APPLICATION.		
	21.	NOT USED FOR THIS SHEET APPLICATION.		
	22.	DIN RAIL SHALL BE INSTALLED AS ILLUSTRATED ON DRAWING. DIN RAIL SHALL BE		
		GROUNDED TO THE GROUND BUS.		
	23.	BOND NEUTRAL AND GROUND BUSES TOGETHER. TIE THE ENCLOSURE INTO THE		
		GROUND BUS.		
R	24.	ITEM W SHALL BE FORMED AND MOLDED TO FIT AROUND THE AREA DENOTED BY		
		THE DASHED LINE. THE PLEXIGLASS SHALL BE MOUNTED TO THE BACKPLATE WITH		
A		SUFFICIENT AIR HOLES TO ALLOW HEAT TO ESCAPE THE AREA. THERE SHALL ALSO		
		BE OPENINGS ON THE BOTTOM TO ALLOW CABLES TO BE PASSED FROM THE AC		
		SECTION TO THE OTHER SECTIONS OF THE ENCLOSURE.		
	25.	ITEM AL SHALL BE PLACED ON ITEM B.		
	26.	ALL INTERNAL ENCLOSURE ROUTED AND TERMINATED CAT6 CABLE SHALL BE		
		TEMPERATURE RATED.		
	27.	ALL INTERNAL 24VAC, 120VAC (STARTING ON SECONDARY SIDE OF ITEM B) AND		
		ANY DC VOLTAGE POWER FEEDS USE #16 AWG CABLE.		
	28.	SPARE BREAKER RESERVED.		
	29.	ALL CONDUIT EXITING THE BOTTOM OF THE CABINET SHALL BE INSTALLED IN-LINE		
		WITH THE EQUIPMENT IT IS CONNECTED TO. THE CABLES SHALL BE INSTALLED IN A		
		NEAT AND PROFESSIONAL MANNER.		
	30.	PROVIDE WINDOW IN PMMA SHIELD FOR ACCESS TO BREAKER. MOUNT BREAKER		

FLUSH WITH PMMA SHIELD USING MOUNTING BRACKET.



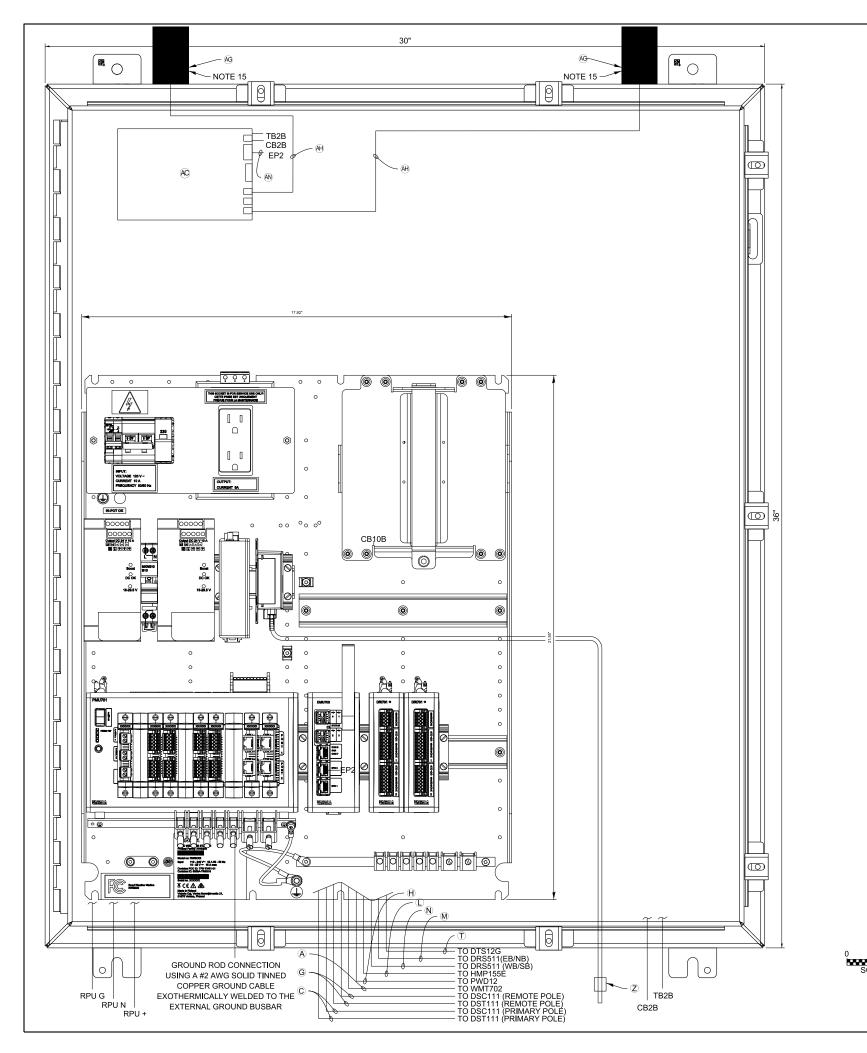
NOT A STANDARD DRAWING. IT REQUIRES COMPLETION BY THE DESIGNER PRICE TO INSERTION INTO A CONTRACT. MICROSTATION FILES AND THE "CADD STANDARDS MANUAL" ARE AVAILABLE ON THE ILLINOIS TOLLWAY WEBSITE. THE DESIGNER SHALL ACCEPT THE RESPONSIBILITY OF THE Z DESIGN OF THIS SHEET UPON ITS COMPLETION AND 7 INSERTION INTO A CONTRACT. ALL "NOTE TO DESIGNER" BOXES SHALL BE REMOVED BY THE DESIGNER PRIOR TO



RWIS CABINET WIRING DIAGRAM

2025-03

M-ITS-1301



ITEM DESCRIPTION

- WMT700 CABLE, VAISALA 237890 (A)
- (B) NOT USED FOR THIS SHEET APPLICATION
- $\langle \hat{\mathbf{C}} \rangle$ DSC11/DST111 CABLE (PRIMARY POLE), VAISALA 216547
- (D) NOT USED FOR THIS SHEET APPLICATION
- (Ê) NEMA 4X STAINLESS STEEL, 36"H X 30"W X 12"D ENCLOSURE WITH 33"X27" PANEL HOFFMAN/A36H3012SS6LP & A36P30
- NOT USED FOR THIS SHEET APPLICATION (F)
- G DSC11/DST111 CABLE (REMOTE POLE), VAISALA DR22174Z150M
- (H) PWD12 CABLE, VAISALA 217148
- \odot NOT USED FOR THIS SHEET APPLICATION
- NOT USED FOR THIS SHEET APPLICATION (J)
 - NOT USED FOR THIS SHEET APPLICATION
- \odot HMP155E CABLE, VAISALA 220497

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- M TYPE IIA CABLE (EB SENSOR), VAISALA 76420300
- (N) TYPE IIA CABLE (WB SENSOR), VAISALA 76421500 (FOR SENSORS GREATER THAN 500' FROM RWIS ENCLOSURE USE TYPE V CABLE, VAISALA 76420500) NOT USED FOR THIS SHEET APPLICATION
 - DTS210 CABLE (20 METERS), VAISALA
- NOT USED FOR THIS SHEET APPLICATION $\langle T \rangle$
- NOT USED FOR THIS SHEET APPLICATION (Û)
- NOT USED FOR THIS SHEET APPLICATION
- NOT USED FOR THIS SHEET APPLICATION
- DMU703 CABLE, VAISALA 210267
- NOT USED FOR THIS SHEET APPLICATION
- PRESSURE PORT, VAISALA 16941DM
- NOT USED FOR THIS SHEET APPLICATION
- NOT USED FOR THIS SHEET APPLICATION
- CDMA MODEM ASSEMBLY (FOR VERIZON NETWORK) AC
- AD NOT USED FOR THIS SHEET APPLICATION
- NOT USED FOR THIS SHEET APPLICATION
- NOT USED FOR THIS SHEET APPLICATION Æ AG
- WIRELESS MODEM ANTENNAS, PCTEL/BMLPVDB700/2500 WIRELESS MODEM ANTENNA CABLE, WITH SMA AH
- CONNECTORS PCTEL/PROFLEX PLUS 195-RG58/U
- NOT USED FOR THIS SHEET APPLICATION
- INDOOR/OUTDOOR RATED CAT6 (1000MBS TEMPERATURE HARDENED) THESE ARE THE CAT6 CABLES ROUTED INSIDE CABINET



THIS BASE SHEET SHOWS TYPICAL CONSTRUCTION BUT IT IS **NOT** A STANDARD DRAWING. IT REQUIRES COMPLETION BY THE DESIGNER PRIOR TO INSERTION INTO A CONTRACT. 1 MICROSTATION FILES AND THE "CADD STANDARDS MANUAL" TARE AVAILABLE ON THE ILLINOIS TOLLWAY WEBSITE. THE - DESIGNER SHALL ACCEPT THE RESPONSIBILITY OF THE Z DESIGNER SHALL ACCEPT THE RESPONSIBILITY OF T INSERTION INTO A CONTRACT. ALL "NOTE TO DESIGNER" BOXES SHALL BE REMOVED BY THE DESIGNER PRIOR TO INSERTION OF THE SHEET INTO THE PLAN SET. - そそれれれれれれれれれれれれれれれ

SCALE IN INCHES SCALE: 1" = 2"

NOTES:

- ALL POWER WIRING SHALL BE RHH/RHW WITH WIRE 1. TERMINALS OR TINNED.
- 2. NOT USED FOR THIS SHEET APPLICATION.
- 3 ALL CABLES AND EQUIPMENT SHALL BE PROPERLY DRESSED AND LABELED. ALL CONDUITS SHALL BE PROPERLY PLUGGED WITH DUCT SEAL PUTTY (RAINBOW TECHNOLOGIES OR EQUIVALENT).
- NOT USED FOR THIS SHEET APPLICATION. 4
- NOT USED FOR THIS SHEET APPLICATION. 5
- NOT USED FOR THIS SHEET APPLICATION. 6.
- 7. NOT USED FOR THIS SHEET APPLICATION. NOT USED FOR THIS SHEET APPLICATION. 8.
- NOT USED FOR THIS SHEET APPLICATION. 9.
- NOT USED FOR THIS SHEET APPLICATION. 10.
- NOT USED FOR THIS SHEET APPLICATION. 11.
- 12 NOT USED FOR THIS SHEET APPLICATION.
- 13. ALL CABLES SHALL ENTER THE ENCLOSURE FROM THE BOTTOM, ALL POWER AND COMMUNICATION CABLE SLACK SHALL BE PLACED IN THE HANDHOLE
- 14 NOT USED FOR THIS SHEET APPLICATION
- 15 THE CELL MODEM ANTENNAS SHALL BE PROPERLY SEALED WITH HIGH DENSITY NEOPRENE GASKETS RATED FOR HIGH TEMPERATURE TO PREVENT WATER PENETRATION INTO THE CABINET.
- NOT USED FOR THIS SHEET APPLICATION. 16.
- NOT USED FOR THIS SHEET APPLICATION 17.
- NOT USED FOR THIS SHEET APPLICATION. 18
- 19. NOT USED FOR THIS SHEET APPLICATION.
- 20. NOT USED FOR THIS SHEET APPLICATION.
- 21. NOT USED FOR THIS SHEET APPLICATION.
- 22. NOT USED FOR THIS SHEET APPLICATION.
- 23. BOND NEUTRAL AND GROUND BUSES TOGETHER. WHEN REQUIRED. THE THE ENCLOSURE INTO THE GROUND BUS.
- NOT USED FOR THIS SHEET APPLICATION. 24
- 25. NOT USED FOR THIS SHEET APPLICATION.
- ALL INTERNAL ENCLOSURE ROUTED AND TERMINATED 26 CAT6 CABLE SHALL BE TEMPERATURE RATED.
- 27 NOT USED FOR THIS SHEET APPLICATION ..
- NOT USED FOR THIS SHEET APPLICATION. 28.
- 29 ALL CONDUIT EXITING THE BOTTOM OF THE CABINET SHALL BE INSTALLED IN-LINE WITH THE EQUIPMENT IT IS CONNECTED TO. THE CABLES SHALL BE INSTALLED IN A NEAT AND PROFESSIONAL MANNER

*れれれれれれれれれれれれ*れれれれれれれれれれれれれれれれれる NOTE TO DESIGNER Z DSE SHALL SPECIFY THE GATOR PATCH CABLE LENGTH PER SITE AND UPDATE ITEM (O) TO INCLUDE THIS LENGTH. ^IIIIIIIIIIIIII

アイエエエエエエエエエエエエー NOTE TO DESIGNER IF THERE IS NO CCTV IN 400 FEET FROM RWIS PRIMARY POLE THEN INSTALL A CCTV AND ITS ENCLOSURE.

^IIIIIIIIIIIIIIIIIII

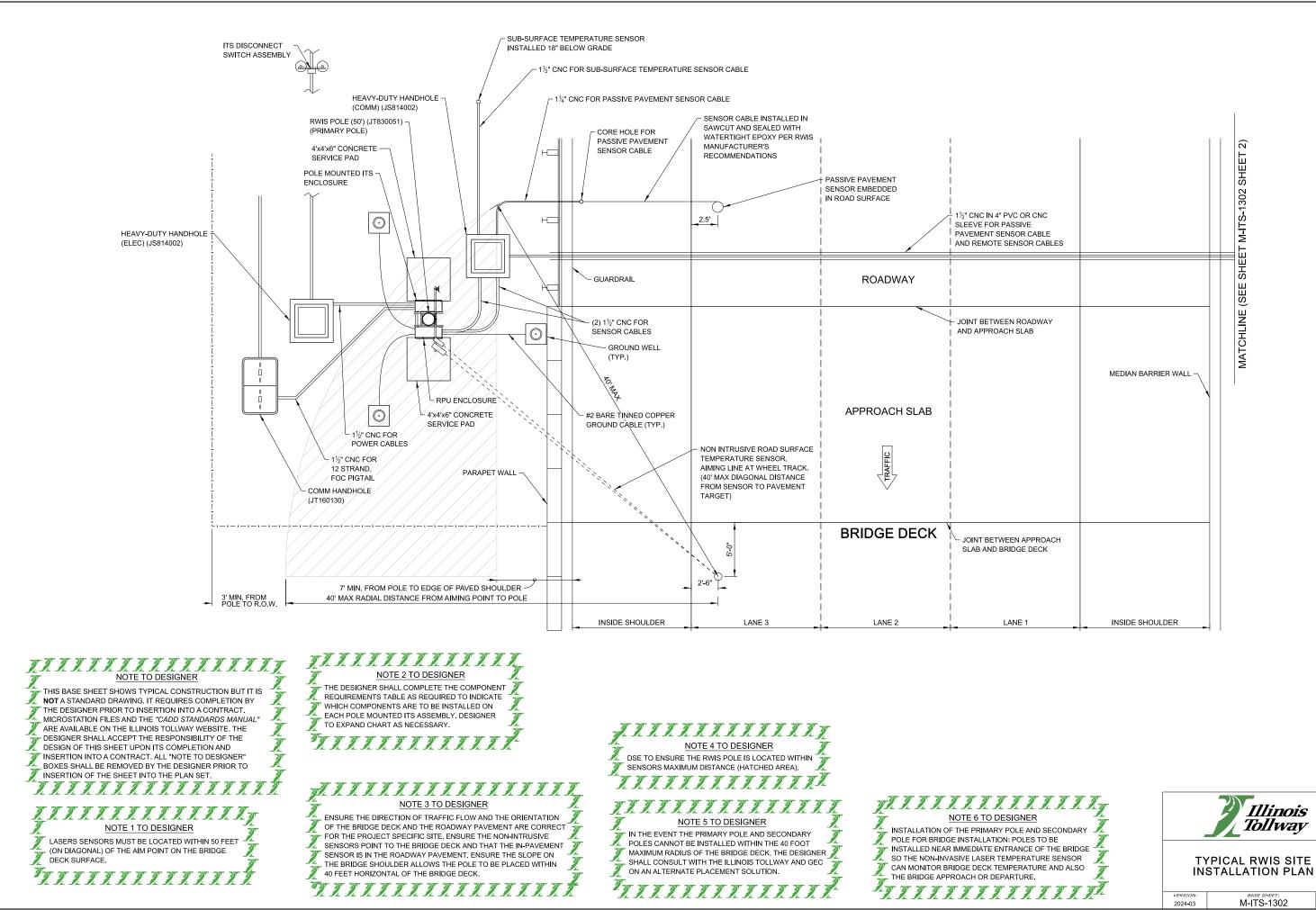


RWIS CABINET WIRING DIAGRAM

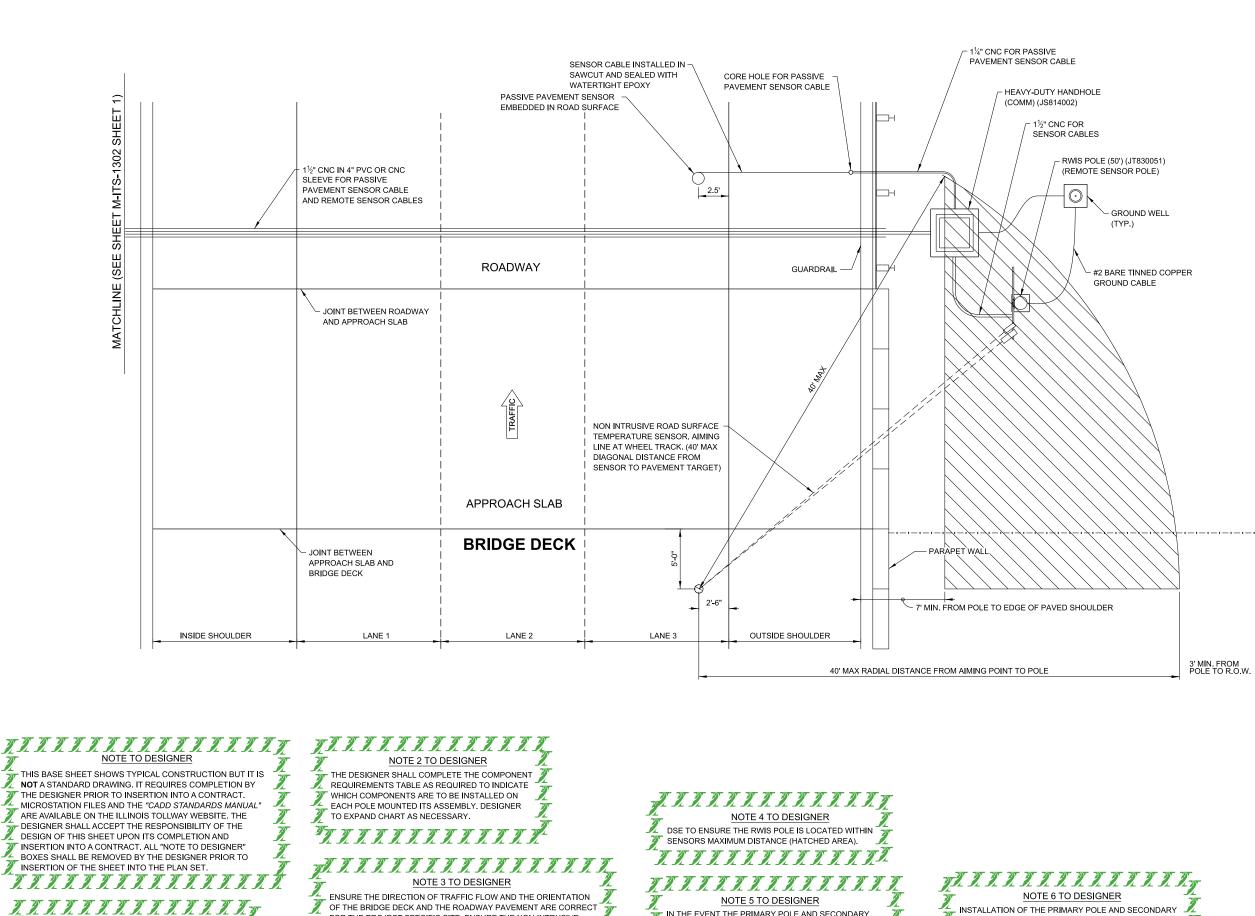
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M-ITS-1301



1 OF 2



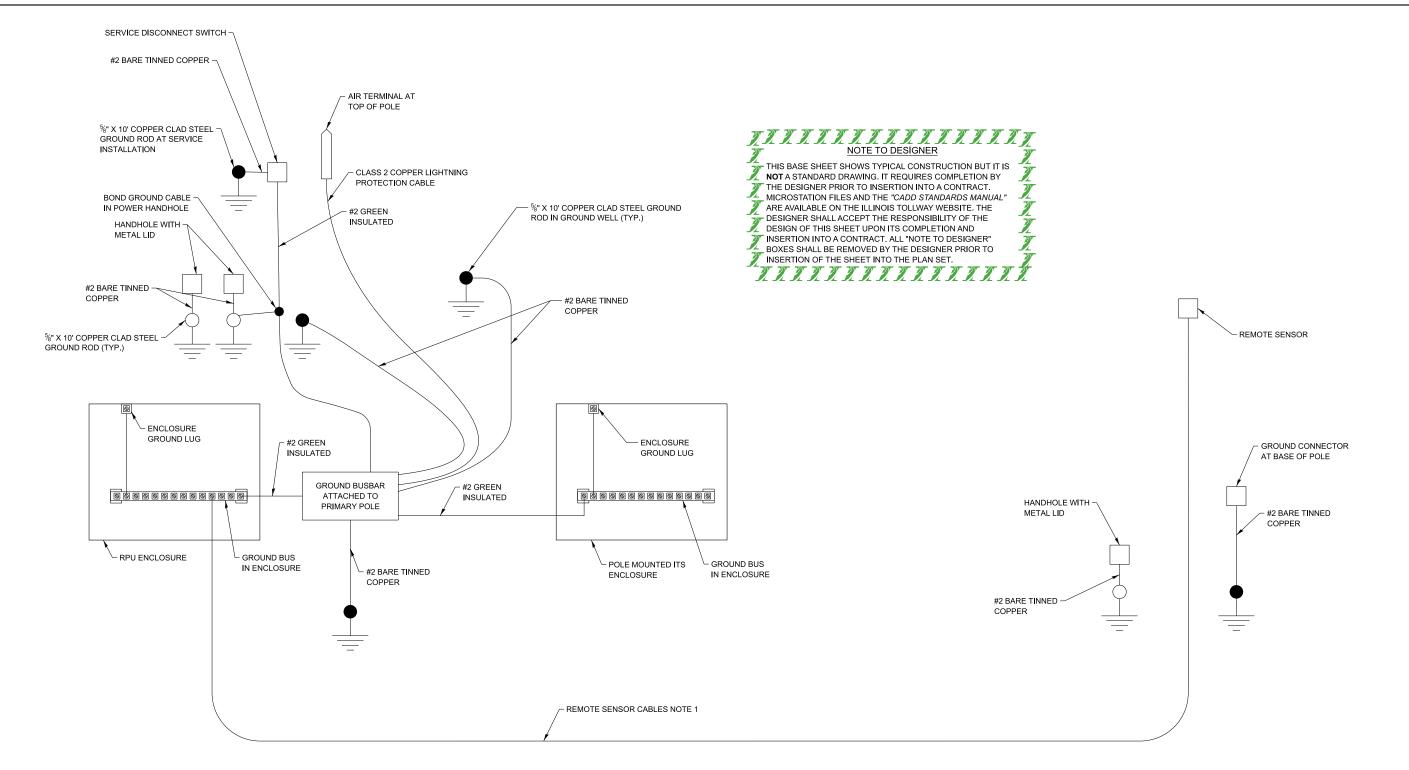
<u>NOTE 1 TO DESIGNER</u>
LASERS SENSORS MUST BE LOCATED WITHIN 50 FEET
(ON DIAGONAL) OF THE AIM POINT ON THE BRIDGE
DECK SURFACE.

^TRATATATATA<u>TA</u>

ENSURE THE DIRECTION OF TRAFFIC FLOW AND THE ORIENTATION OF THE BRIDGE DECK AND THE ROADWAY PAVEMENT ARE CORRECT FOR THE PROJECT SPECIFIC SITE. ENSURE THE NON-INTRUSIVE SENSORS POINT TO THE BRIDGE DECK AND THAT THE IN-PAVEMENT SENSOR IS IN THE ROADWAY PAVEMENT. ENSURE THE SLOPE ON THE BRIDGE SHOULDER ALLOWS THE POLE TO BE PLACED WITHIN 40 FEET HORIZONTAL OF THE BRIDGE DECK.

 NOTE 5 TO DESIGNER
 Image: Comparison of the second and second an





RPU POLE

REMOTE POLE

NOTES:

1. CONTRACTOR SHALL INSTALL A CONTINUOUS RUN FOR THE POWER AND COMMUNICATION CABLE BETWEEN THE PRIMARY RWIS AND SECONDARY REMOTE POLE. NO SPLICING WILL BE ALLOWED. INSTALL 40 FEET OF SLACK IN THE POWER HANDHOLE BETWEEN THE TWO POLES.

Illinois Tollway TYPICAL RWIS GROUNDING SCHEMATIC 2022-03 M-ITS-1303 1 OF 1