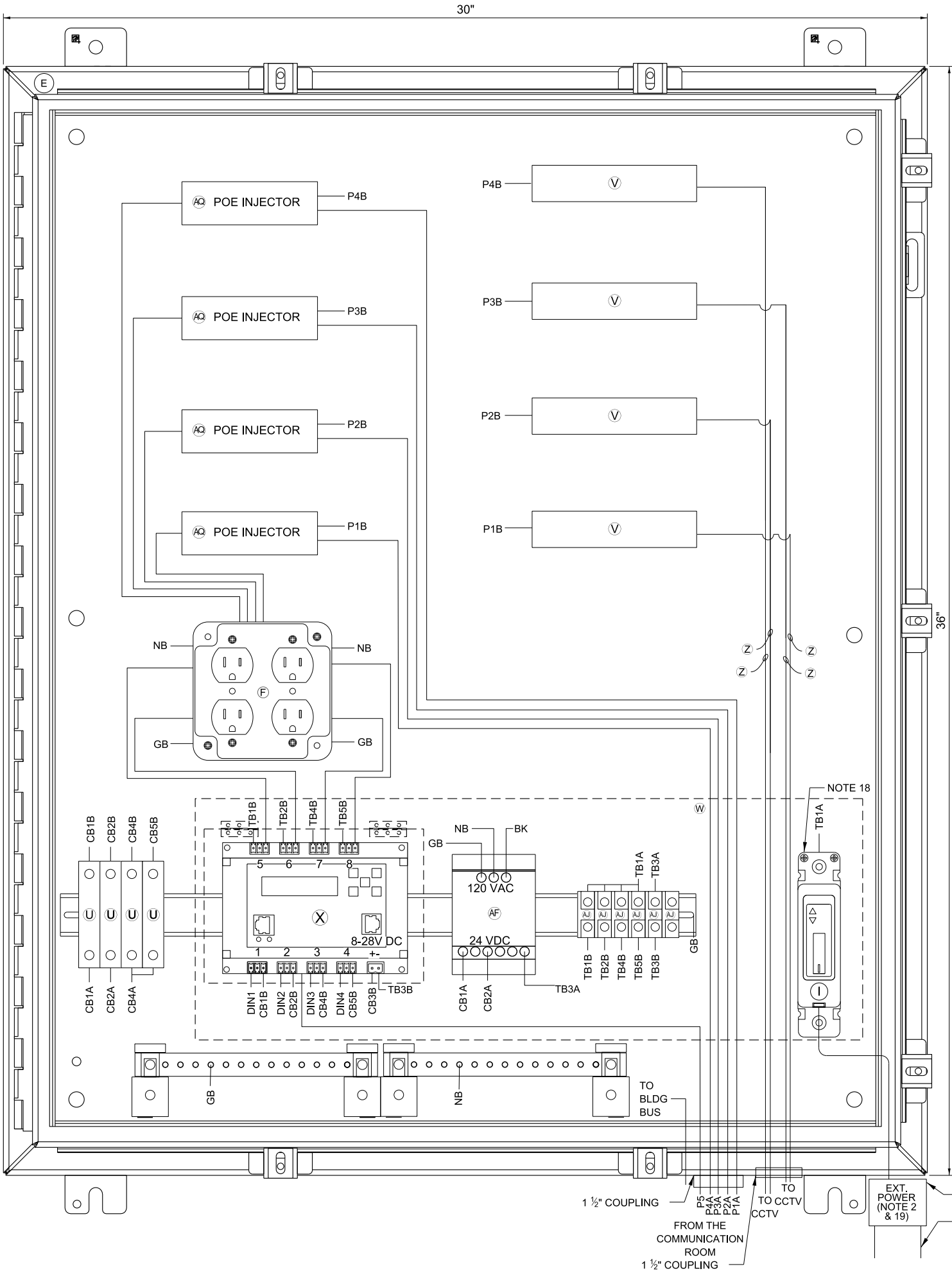


Illinois Tollway Base Sheet Revisions

Section M	Base Sheet Drawings		
	Drawing	Modification Summary	Effective: 03-01-2025
	Video Power Junction Box - Series 2100		
	M-ITS-2100	Video Power Junction Box Model A	
		Revised layout to add access door through the Plexiglas cover to give easy access to IP Relay for programing	
		Added CB3B to power port of the IP Relay details	
	M-ITS-2101	Video Power Junction Box Model B	
		Revised layout of Cisco switch to match the details of Cisco IE-3300-8T2S-E	
		Revised layout to add access door through the Plexiglas cover to give easy access to IP Relay for programing	
		Revised Cisco license to connect to Cisco IE3300-DNS-A-3Y	
		Revised item to call Cisco IE-3300-8T2S-E	

New Sheet

Retired Standard



ITEM DESCRIPTION

A

NOT USED

B

NOT USED

C

NOT USED

D

TWO (2) GROUNDING BAR SYSTEM HOFFMAN/PGS2K. BONDED OR SEPARATED AS REQUIRED.

E

NEMA 4X STAINLESS STEEL, 36"H X 30"W X 12"D ENCLOSURE WITH 33"x27" PANEL, HOFFMAN/A36H3012SS6LP & A36P30

F

ONE QUAD 120V RECEPTACLE

G

NOT USED

H

NOT USED

I

120V, 1P, 30A CIRCUIT BREAKER WITH TERMINAL SHIELD EATON

J

NOT USED

K

NOT USED

L

NOT USED

M

NOT USED

N

NOT USED

O

NOT USED

P

NOT USED

Q

NOT USED

R

NOT USED

S

NOT USED

T

NOT USED

U

5A CIRCUIT BREAKER, ALLEN BRADLEY/1492-SPM1B050

V

AXIS SURGE SUPPRESSOR T8061, MOUNTED ON COMMON DIN RAIL AND GROUNDED

W

CLEAR PLEXIGLASS SAFETY COVER PANEL ENCOMPASSING ITEMS I, X, AF AND AJ (THE INSTALLER SHALL PERMANENTLY AFFIX A LABEL STATING "DANGER 480 VAC" OR "DANGER 240 VAC" OR "DANGER 120 VAC" FOR VOLTAGE AS FIELD CONDITIONS WARRANT.)

X

POWER CONTROLLER, 8-CHANNEL DIN ETHERNET RELAY DIGITAL LOGGERS/DIN 4

Y

NOT USED

Z

CATEGORY 6 CABLE, 23AWG, OUTDOOR RATED CABLE BELDEN/7953A

AA

NOT USED

AB

NOT USED

AC

NOT USED

AD

NOT USED

AE

NOT USED

AF

AC/DC POWER SUPPLY, 24VDC WAVETRONIX - CLICK-204

AG

NOT USED

AH

NOT USED

AI

NOT USED

AJ

TERMINAL BLOCK, ALLEN BRADLEY/1492-CD8

AP

#10 AWG

AQ

POE INJECTOR AXIS T8154 60W MIDSPAN 120VAC

NOTES:

1.

ALL POWER WIRING SHALL BE RHH/RHW WITH WIRE TERMINALS OR TINNED.

2.

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).

4.

EACH 120VAC OUTLET, OR (ITEM F, & AF) SHALL BE FED FROM A SEPARATE POWER CIRCUIT.

5.

MOUNT ITEMS U, X, AF & AJ ON A 21 INCH CONTINUOUS SECTION OF DIN RAIL.

6.

ALL BREAKERS SHALL BE LABELED (e.g. CAMERA-AC, CAMERA-DC, DIN RELAY-AC, DIN RELAY-DC, CELL MODEM-AC ETC.).

7.

USE THE MOUNTING TABS ON THE IP RELAY UNIT TO MOUNT THE UNIT DIRECTLY TO THE DIN RAIL. REFER TO THE IP RELAY WIRING TABLE FOR WIRING DETAILS.

8.

IP RELAY IS USED TO CONTROL POWER TO THE CAMERAS AND DETECTORS. ALL 120VAC CONNECTIONS ON ITEM X SHALL BE PROTECTED.

9.

DIN RAIL SHALL BE INSTALLED AS ILLUSTRATED ON DRAWING. DIN RAIL SHALL BE GROUNDED TO THE GROUND BUS.

10.

BOND NEUTRAL AND GROUND BUSES TOGETHER, WHEN REQUIRED. TIE THE ENCLOSURE INTO THE GROUND BUS.

11.

THE PLEXIGLASS PANEL DENOTED BY THE DASHED LINE SHALL BE ATTACHED TO THE BACKPLATE WITH 4 MOUNTING STUDS.

12.

ALL INTERNAL ENCLOSURE ROUTED AND TERMINATED CAT6 CABLE SHALL BE TEMPERATURE RATED.

13.

ALL INTERNAL 24VAC, 120VAC AND ANY DC VOLTAGE POWER FEEDS USE #16 AWG CABLE.

14.

PROVIDE WINDOW IN PMMA SHIELD FOR ACCESS TO BREAKER, MOUNT BREAKER FLUSH WITH PMMA SHIELD USING MOUNTING BRACKET.

15.

120V POWER COMES FROM THE BUILDING CIRCUIT PANEL.

16.

WIFI COMMUNICATION SHALL BE DISABLED ON DIN ETHERNET RELAY.

NOTE TO DESIGNER

IF DESIGN REQUIRES MORE THAN 4 CCTV'S PLEASE ADD THE ADDITIONAL CCTV/POE INJECTOR/POWER SUPPRESSOR INTO A SMALLER CABINET SIDE BY SIDE AND CONTROLLED BY THE MAIN CABINET.

NOTE TO DESIGNER

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. MICROSTATION FILES AND THE "CADD STANDARDS MANUAL" ARE AVAILABLE ON THE ILLINOIS TOLLWAY WEBSITE. THE DESIGNER SHALL ACCEPT THE RESPONSIBILITY OF THE DESIGN OF THIS SHEET UPON ITS COMPLETION AND 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.

ILLINOIS
Tollway

VIDEO POWER JUNCTION BOX
MODEL A

VERSION:
2025-03

BASE SHEET:
M-ITS-2100

SHEET:
1 OF 1

