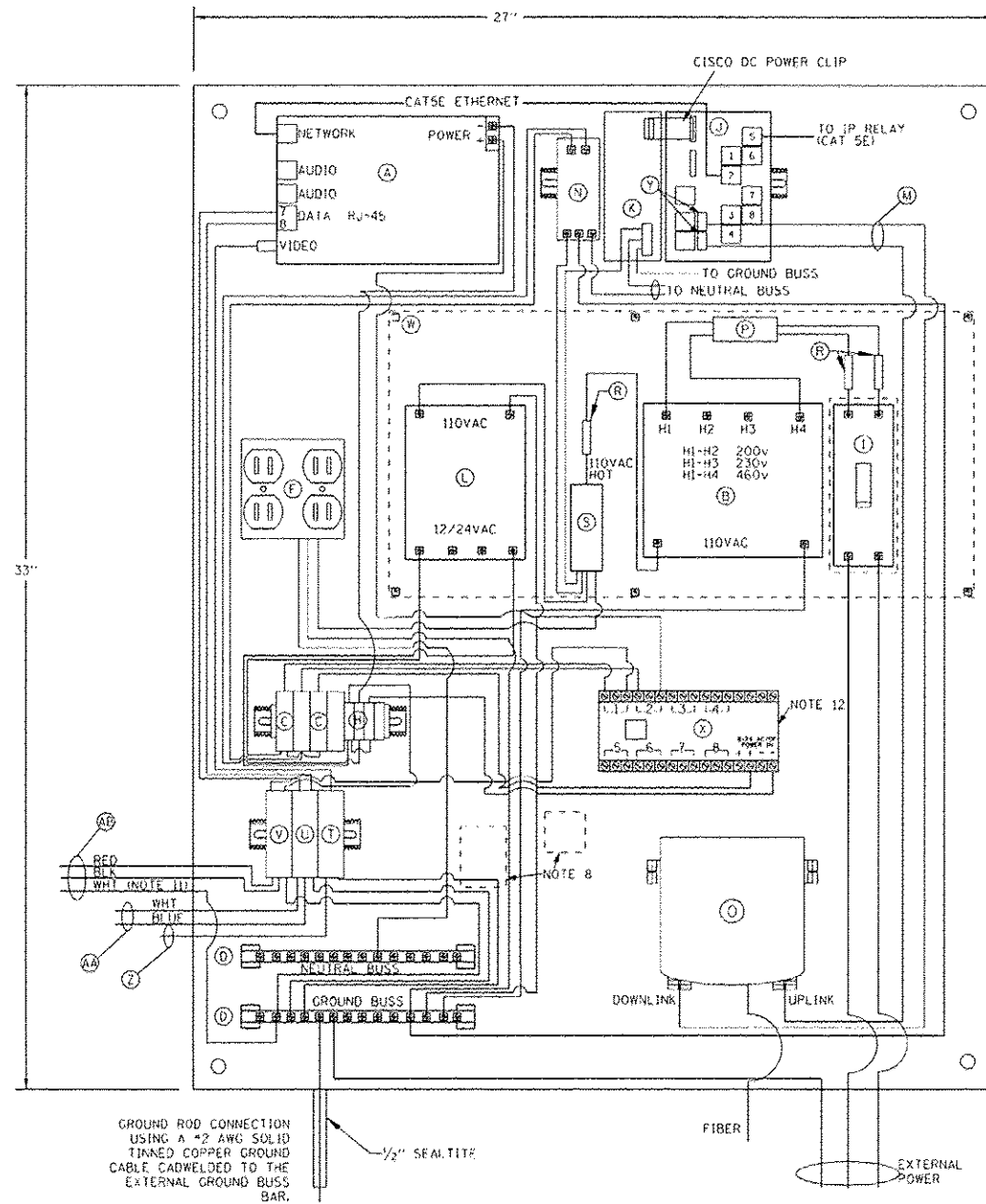


POLE MOUNTED CCTV CABINET - IP RELAY WIRING TABLE						
FROM CONNECTION			DESCRIPTION	WIRE OR CABLE	TO CONNECTION	
DEVICE	TB	CONNECTION			DEVICE	TB
C	TB1	+ 24 VAC	CIRCUIT BREAKER FOR CCTV		IP_RELAY	TB1 1 NC
V	TB1	POWER +	24VAC SURGE PROTECTOR FOR CCTV	16 AWG	IP_RELAY	TB1 1 NO
C	TB1	+ 12VAC	CIRCUIT BREAKER FOR ENCODER		IP_RELAY	TB1 2 NC
					IP_RELAY	TB1 2 NO
A	TB1	POWER +	OPTELECOM ENCODER C-60-E-MC/SA		IP_RELAY	TB1 2 COM
			RESERVED FOR WIRELESS RADIO/SENSYS AP		IP_RELAY	TB1 3 NC
					IP_RELAY	TB1 3 NO
					IP_RELAY	TB1 3 COM
			RESERVED FOR DMS OR WIM		IP_RELAY	TB1 4 NC
					IP_RELAY	TB1 4 NO
					IP_RELAY	TB1 4 COM
			RESERVED FOR FLASHING BEACONS		IP_RELAY	TB1 5 NC
					IP_RELAY	TB1 5 NO
					IP_RELAY	TB1 5 COM
			UNUSED		IP_RELAY	TB1 (6/7/8) NC
					IP_RELAY	TB1 (6/7/8) NO
					IP_RELAY	TB1 (6/7/8) COM



- ITEM DESCRIPTION
- A VIDEO ENCODER, SIQURA MODEL C-60-E-MC/SA WITH PSR-12DC/US POWER ADAPTER
  - B CONTROL POWER TRANSFORMER, 1000VA, 208/240/480-120VAC, 1PH, SQUARE D CLASS 9070, TYPE T1000D95 (OR EQUIVALENT)
  - C FOUR (4) SINGLE CIRCUIT FUSIBLE TERMINAL BLOCKS, WITH LED BLOWN FUSE INDICATOR, COMPLETE WITH 5 AMP FUSE, MOUNTING RAIL, ANCHORS, BARRIERS, MARKING STRIPS AND JUMPERS. ALLEN BRADLEY CAT NO. 1492-FBIM30-D1, FOUR TERMINAL BLOCKS ALLEN BRADLEY CAT NO. 1492-CDB. (OR EQUIVALENT)
  - D TWO (2) GROUNDING BAR SYSTEM, HOFFMAN CAT NO, PG52K (OR EQUIVALENT)
  - E NEMA 4X STAINLESS STEEL, 36" H X 30" W X 12" D ENCLOSURE HOFFMAN CAT NO. (A36H3012556LP) WITH 33" X 27" PANEL (A36P30) (OR EQUIVALENT)
  - F TWO DUPLEX 120V RECEPTACLES, ONE GFCI (HUBBELL GFR5362TR) AND ONE STANDARD (HUBBELL BR20WR), SEE NOTE 9
  - G NOT USED
  - H FIVE (5) MERSEN ATM5, 5 AMP FUSE (OR EQUIVALENT)
  - I 240V, 2P, 30A CKT BRKR, CUTLER HAMMER TYPE HFD2030L (OR EQUIVALENT)
  - J CISCO MODEL IE-3000-BTC SWITCH.
  - K CISCO MODEL PWR-IE3000-AC+ POWER SUPPLY
  - L CONTROL POWER TRANSFORMER, 250VA, 120-24VAC, 1PH SQUARE D CLASS 9070, TYPE T250D13 (OR EQUIVALENT)
  - M 9' 6-SMF0 LC-5C JUMPERS, CORNING CATALOG No. 047206RW425009F
  - N SIQURA C-60-E-MC/SA POWER SUPPLY (PSR 12-DC/US)
  - O CORNING WMO-85 WITH (6) WMO-CP02-59-85 (FOR SMFO)
  - P COPPER CROUSE HINDS 240VAC SURGE SUPPRESSOR, FIN MA15/D/2/51, MOUNTED ON DIN RAIL
  - Q PANDUIT WIRING DUCT (OR EQUIVALENT) CATALOG No. FIX1LG6 WITH COVER CIL66
  - R THREE (3) MERSEN 10 AMP FUSE (ATM10) (OR EQUIVALENT)
  - S ALTECH 38041 SPLICE BLOCK (OR EQUIVALENT)
  - T ATLANTIC SCIENTIFIC COAX SURGE SUPPRESSOR, P/N 24584, MOUNTED ON COMMON DIN RAIL
  - U ATLANTIC SCIENTIFIC RS-422 SURGE SUPPRESSOR, P/N 24528, MOUNTED ON COMMON DIN RAIL
  - V ATLANTIC SCIENTIFIC 24VAC SURGE SUPPRESSOR, P/N 24580, MOUNTED ON COMMON DIN RAIL
  - W CLEAR FLEXIGLASS SAFETY COVER ENCOMPASSING ITEMS L, R, S, B, P & I, WITH OPENING FOR OPERABLE SWITCH I. (THE INSTALLER SHALL PERMANENTLY AFFIX A LABEL STATING "DANGER 480 VAC" OR "DANGER 240 VAC" OR NO LABEL FOR 120 VAC AS FIELD CONDITIONS WARRANT.)
  - X POWER CONTROLLER, DATA LOGGERS, INC 8-CHANNEL DIN ETHERNET RELAY
  - Y (2) QLC-LX-5M-RGD - 1 Gbps SM SFP MODULES
  - Z RG-6/U COAX CABLE, BELDEN CATALOG No. 5339X5
  - AA RS-422 CONTROL CABLE, BELDEN CATALOG No. 9829
  - AB \*14 3/C CCTV POWER CABLE, BELDEN CATALOG No. 9367.

- NOTES:
1. ALL POWER WIRING SHALL BE RIHH/RIHW
  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 (RAINROW TECHNOLOGIES OR EQUIVALENT).
  4. NOT USED
  5. EACH 120VAC OUTLET, PS OR TRANSFORMER (ITEM F, K, L & N) SHALL BE FED FROM A SEPARATE FUSED INPUT LINE.
  6. MOUNT ITEMS J, K & N ON A 1/2 INCH CONTINUOUS SECTION OF DIN RAIL. THE DIN RAIL SHALL BE INSTALLED WITH THE CENTER LINE NO LESS THAN 5 INCHES FROM ANY OBSTACLE ABOVE AND NO LESS THAN 4 INCHES FROM ANY OBSTACLE BELOW.
  7. ALL CABLES INSTALLED WITHIN THE CCTV CABINET AND POLE SHALL BE OUTDOOR RATED.
  8. THESE ELEMENTS ARE ILLUSTRATED FOR FUTURE USAGE. THEY ARE THE SURGE SUPPRESSOR AND POWER OVER ETHERNET DEVICES FOR AN ACCESS POINT ELEMENT UTILIZED FOR RAMP QUEUE DETECTION.
  9. THE GFI OUTLETS LOAD SHALL NOT BE CONNECTED TO ANY OTHER LOAD IN THE ENCLOSURE. THE GFI IS INTENDED TO BE UTILIZED FOR EXTERNAL EQUIPMENT ONLY.
  10. ALL BREAKERS SHALL BE LABELED (e.g. CAMERA, ENCODER, IP RELAY).
  11. THE GROUND WIRE IN THE 3/C \*14 CCTV POWER CABLE SHALL BE TAPED GREEN.
  12. USE THE MOUNTING TABS ON THE IP RELAY UNIT TO MOUNT THE UNIT DIRECTLY TO THE BACK PLATE. REFER TO THE IP RELAY WIRING TABLE FOR WIRING DETAILS.

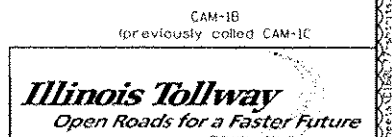
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SCALE: N/A	SHEET NO. 2 OF 8 SHEETS	STA. N/A TO STA. N/A
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P.R. RTE. 94	SECTION 49-1-R-1	COUNTY LAKE	TOTAL SHEETS 677	SHEET NO. 430
CONTRACT NO. 60L77				
ILLINOIS FED. AID PROJECT				



DATE	REVISIONS
06-20-2012	REVISION 4

POLE MOUNTED  
CCTV CABINET DETAIL