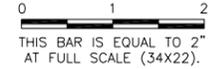


CE032

REVISIONS		
NUMBER	BY	DATE



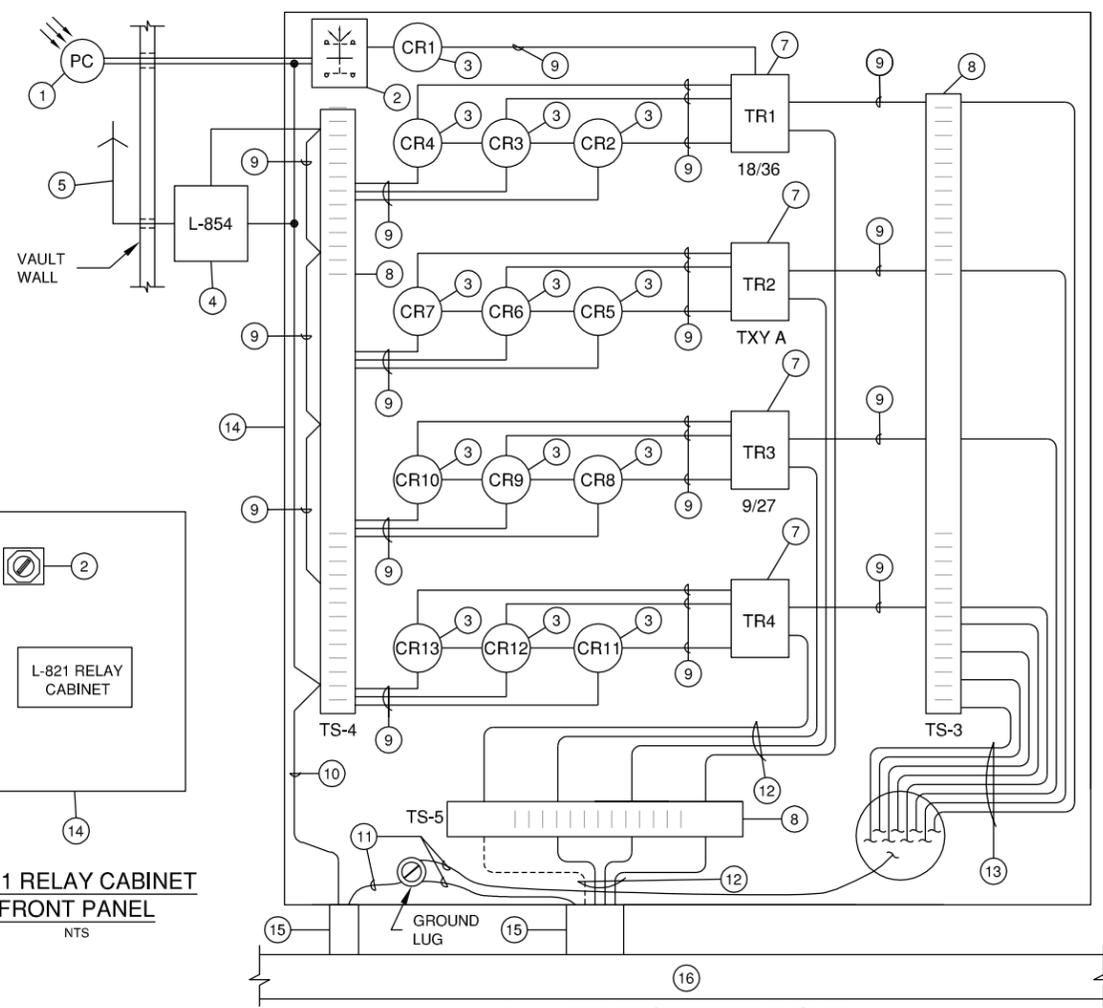
CITY OF CENTRALIA, ILLINOIS
 CENTRALIA MUNICIPAL AIRPORT
 CENTRALIA, ILLINOIS

CONSTRUCT NEW ELECTRICAL VAULT; REHABILITATE
 MRLS, PAPI & REILS ON RUNWAY 18/36
L-821 DETAILS 2



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DESIGN BY:	WDP
DRAWN BY:	ADD, DPA
CHECKED BY:	TM
APPROVED BY:	RLV
DATE:	MAY 2, 2014
JOB No:	11072-02
IL PROJ. NO. ENL-4230 PROJ. NO. 3-17-SBGP-XX	
SHEET	28 OF 30 SHEETS

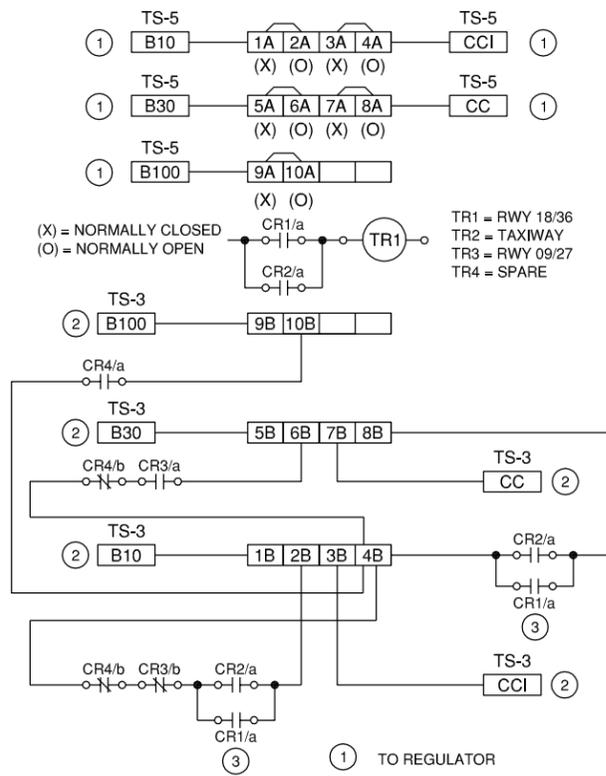


L-821 RELAY CABINET FRONT PANEL
 NTS

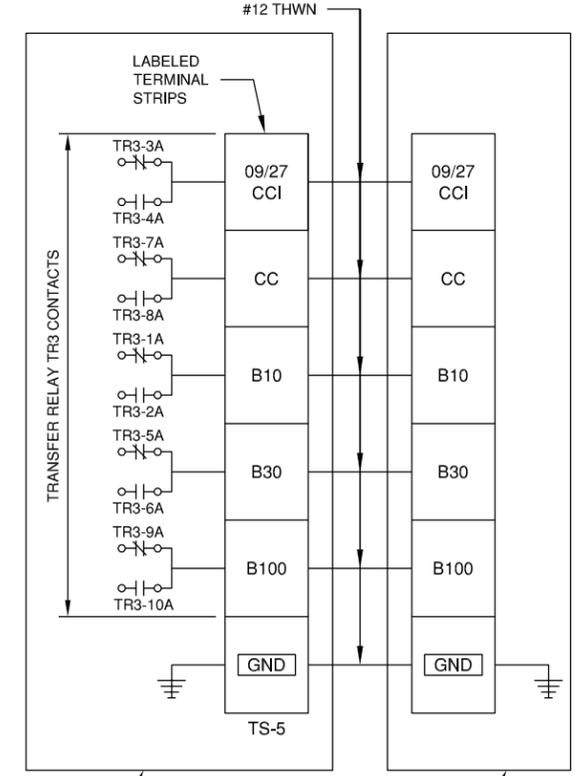
L-821 RELAY CABINET LAYOUT
 NTS

○ L-821 DETAILS 2 NOTES

- NOTE: L-821 RELAY CABINET DETAIL SHOWN IS REPRESENTATIVE, AND IS NOT INTENDED TO SHOW ALL WIRING OR EQUIPMENT.
- PHOTOCELL, 120V, 1800W, TORK 2100, OR EQUIVALENT, MOUNTED ON EXTERIOR WALL, POINTED SOUTH. ADJUST SLIDE CONTROL AS NEEDED. (SEAL OPENING IN VAULT WALL WITH NON-SHRINK GROUT AFTER CONDUIT INSTALLATION.)
 - PHOTOCELL BYPASS SELECTOR SWITCH, THREE-POSITION, NONMETALLIC, NEMA 4X, SQUARE D TYPE SK, OR EQUIVALENT, WITH CONTACT BLOCKS AS NEEDED. MOUNT IN DOOR OF L-821 RELAY CABINET. PROVIDE ENGRAVED NAMEPLATE READING "PHOTOCELL BYPASS".
 - CONTROL RELAY, 4PDT, 10A, 120V CONTACTS, POTTER & BRUMFIELD KUP-14A39-120, WITH SOCKET, OR EQUIVALENT. PROVIDE ENGRAVED NAMEPLATE NEXT TO RELAY IDENTIFYING RELAY, "CR1", FOR EXAMPLE. (THIRTEEN RELAYS REQUIRED.)
 - L-854 RADIO CONTROLLER. WALL MOUNT NEXT TO L-821 RELAY CABINET. PROVIDE ENGRAVED NAMEPLATE READING: "L-854 RADIO CONTROLLER (PILOT CONTROL)".
 - ANTENNA CABLE AND ANTENNA, PROVIDED WITH L-854 RADIO CONTROLLER. INSTALL CABLE IN CONDUIT THROUGH VAULT WALL (SEAL OPENING IN VAULT WALL WITH NON-SHRINK GROUT AFTER CONDUIT INSTALLATION). MOUNT ANTENNA ABOVE VAULT ROOF LINE AS RECOMMENDED BY L-854 MANUFACTURER.
 - PILOT CONTROL "ON" INDICATING LIGHT IN L-821 PANEL IN TERMINAL BUILDING.
 - TRANSFER RELAY, SQUARE D TYPE "X", 10A, 120V, MODEL # XO1000-V02, WITH 10 CONVERTIBLE CONTACTS IN CONFIGURATION AS SHOWN. PROVIDE ENGRAVED NAMEPLATE NEXT TO RELAY IDENTIFYING RELAY, "TR1" "18/36", FOR EXAMPLE. (FOUR RELAYS REQUIRED.)
 - TERMINAL STRIP, 600V, AS NEEDED FOR WIRE TERMINATIONS. PROVIDE LABELS FOR ALL TERMINATIONS AS NEEDED TO ADEQUATELY DESCRIBE THE WIRING CONNECTED. PROVIDE VERTICAL "GENERAL LABELS" NEXT TO TERMINALS, IDENTIFYING THE PURPOSE OF A GROUP OF TERMINATIONS ("RWY 18/36", "RWY 09/27", "TAXIWAY A", "SPARE", ETC.).
 - #16 AWG CONTROL WIRING INSIDE RELAY CABINET.
 - TWO #12 THWN (120V, CKT. #19).
 - #10 GROUND. (NOT ALL GROUND WIRING REQUIRED BY NEC IS SHOWN.)
 - FIVE #12 THWN TO RESPECTIVE RUNWAY OR TAXIWAY REGULATOR. THE DASHED PORTION INDICATES FUTURE WIRING.
 - FOUR 5/C #14 (RWY & TXY CONTROL) THREE 4/C #14 (PCAL INDICATING LIGHT/SPARE TOGGLE SWITCH CONTROL), ONE 5/C #14 (SPARE), 600V, BELDEN, OR EQUIVALENT, ONE #10 GROUND, IN 3" CONDUIT TO L-821 PANEL IN TERMINAL BUILDING.
 - L-821 RELAY CABINET, HINGED COVER (WITH STAINLESS STEEL HINGE PIN), NEMA 12 GASKETED, HOFFMAN, OR EQUIVALENT, SIZED AS REQUIRED TO HOUSE EQUIPMENT. PROVIDE ENGRAVED NAMEPLATE ON CABINET DOOR READING "L-821 RELAY CABINET".
 - (LT. TO RT.): 3/4" CONDUIT (120V, CKT. #19), 2" CONDUIT (REGULATOR CONTROL WIRING).
 - LOW VOLTAGE WIREWAY.



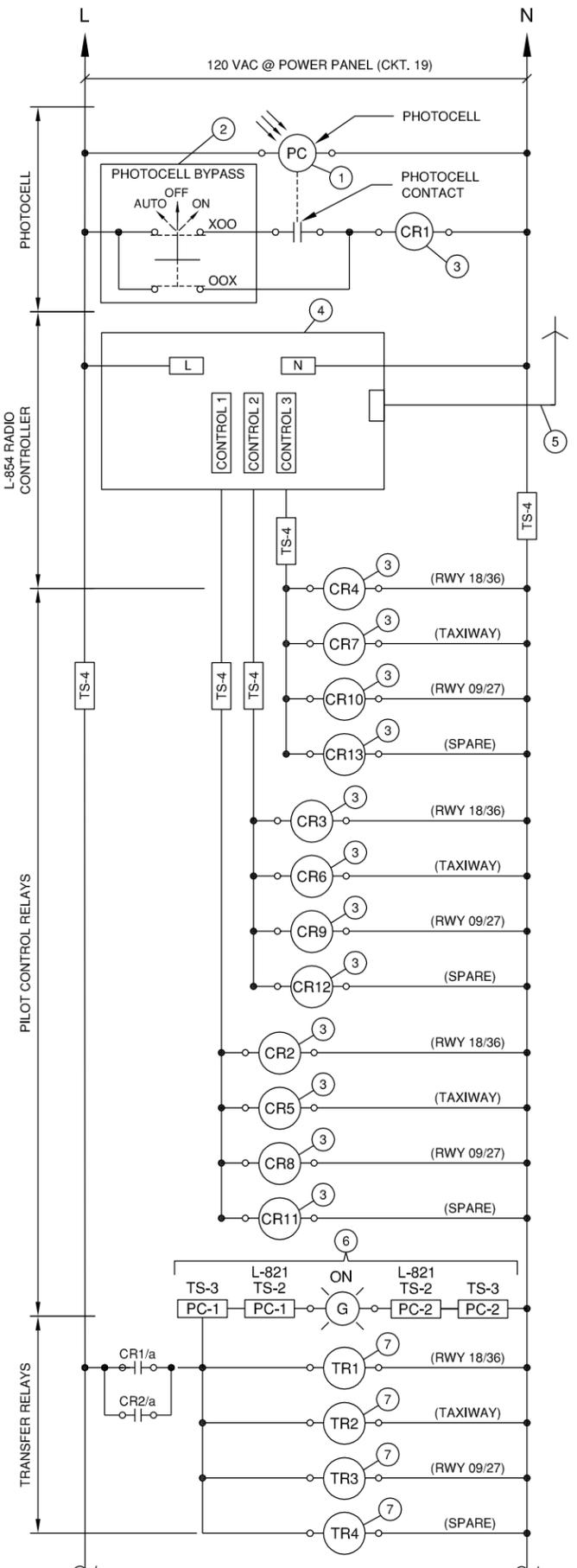
TYPICAL TRANSFER RELAY WIRING - (4 REQ'D)
 (RUNWAY 18/36 SHOWN)



TYPICAL REGULATOR WIRING
 (RUNWAY 09/27 SHOWN)

L-821 RELAY CABINET

RWY 09/27 REGULATOR



L-821 RELAY CABINET CONTROL WIRING SCHEMATIC

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