

KEYED NOTES

1 REPLACE EXISTING 150 AMP, 2P BREAKER FOR RESPECTIVE 30 KW CCR WITH A 200 AMP, 2 POLE, BOLT-ON BREAKER WITH 22,000 AIC AT 240VAC, GENERAL ELECTRIC CAT. NO. THOD22200WL. CONTRACTOR SHALL CONFIRM PROPER CAT. NO. WITH MFR. REP.

2 REPLACE EXISTING 80 AMP, 2P BREAKER FOR TAXIWAY C CCR WITH A 100 AMP, 2 POLE BOLT-ON BREAKER WITH 22,000 AIC AT 240VAC, GENERAL ELECTRIC CAT. NO. THHQB22100.

3 REPLACE EXISTING 20 AMP, 2P BREAKER FOR RUNWAY 4-22 CCR WITH A 30 AMP, 2 POLE BOLT-ON BREAKER WITH 22,000 AIC AT 240VAC, GENERAL ELECTRIC CAT. NO. THHQB22030.

FURNISH & INSTALL A 60 AMP, 2 POLE BOLT-ON BREAKER WITH 22,000 AIC AT 240VAC THAT IS COMPATIBLE WITH THE EXISTING PANELBOARD, GENERAL ELECTRIC CAT. NO. THHQB22060, FOR THE AC SURGE PROTECTOR/TVSS DEVICE. INSTALL ON RIGHT HAND SIDE OF PANELBOARD.

[5] FURNISH & INSTALL A 100 AMP, 2 POLE BOLT-ON BREAKER WITH 22,000 AIC AT 240VAC THAT IS COMPATIBLE WITH THE EXISTING PANELBOARD, GENERAL ELECTRIC CAT. NO. THHQB22100, FOR THE NEW CCR.

6 REPLACE EXISTING BRANCH CIRCUIT CONDUCTORS TO TAXIWAY A CCR WITH 2 #3/0 THWN, 1 #6 GND. EXISTING CONDUIT TO BE REUSED. PROVIDE 1.5" LTFMC AT FINAL CONNECTION TO CCR.

[7] FURNISH & INSTALL 2 #3/0 THWN, 1 #6 GND IN 2" GRSC FROM THE VAULT SERVICE & DISTRIBUTION PANEL TO TAXIWAY B CCR. PROVIDE 2" LIFMC AT FINAL CONNECTION TO CCR. EXISTING BRANCH CKT CONDUCTORS TO TAXIWAY B CCR SHALL BE REMOVED. EXISTING CONDUIT SHALL BE DEDICATED ONLY FOR USE WITH RWY 12L-30R CCR BRANCH CIRCUIT.

8 REPLACE EXISTING BRANCH CIRCUIT CONDUCTORS TO TAXIWAY C CCR WITH 2 #2 THWN, 1 #6 GND. EXISTING CONDUIT TO BE REUSED. PROVIDE 1" LTFMC AT FINAL CONNECTION TO CCR.

9 REPLACE EXISTING BRANCH CIRCUIT CONDUCTORS TO RUNWAY 4-22 CCR WITH 2 #10 THWN, 1 #10 GND. EXISTING CONDUIT TO BE REUSED. PROVIDE 3/4" LITTMC AT FINAL CONNECTION TO

10 FURNISH & INSTALL 2 #2 THWN, 1 #6 GND IN 1.5" GRSC FROM VAULT SERVICE & DISTRIBUTION PANEL TO NEW TAXIWAY B (CIRCUIT NO. 2) CCR. PROVIDE 1.5" LTFMC AT FINAL

11 FURNISH & INSTALL A #6 AWG (MIN.) COPPER GROUND CONDUCTOR FROM CCR FRAME TO NEW VAULT GROUND BUS (TYP. EACH CCR)

AC SURGE PROTECTOR/TVSS, SUITABLE FOR 120/240 VAC, 1 PH, 3W PLUS GROUND SYSTEM WITH SURGE CURRENT RATING OF 240 KA. 8 x 20 MICROSECOND WAVE PER MODE & STATUS INDICATION LIGHTS IN A NEMA 12 ENCLOSURE. LIGHTNING PROTECTION CORP. MODEL LPC 2020-8U-G, OR APPROVED EQUAL. AC POWER SURGE ARRESTER/ TVSS SHALL BE UL 1449, 2ND EDITION LISTED. AC SURGE PROTECTOR/TVSS DEVICE SHALL BE INSTALLED ON THE RIGHT HAND SIDE OF THE VAULT PANELBOARD. MAINTAIN LEADS AS SHORT & AS STRAIGHT AS POSSIBLE FROM THE PANELBOARD TO THE AC SURGE PROTECTOR/TVSS DEVICE. PROVIDE DUCT SEAL AT CONDUIT TERMINATIONS. EXISTING BOOST TRANSFORMERS SHALL BE REMOVED AND/OR RELOCATED TO PROVIDE WALL MOUNTING SPACE FOR THE AC SURGE PROTECTOR/TVSS DEVICE.

SD046

SAINT LOUIS DOWNTOWN AIRPORT

SON HAN

AXI GUIDANCE SIGN IMPROVEMENTS

PROPOSED ELECTRICAL ONE LINE DIAGRAM FOR AIRPORT VAULT

25 of 28 sheet