NEW ELECTRICAL ONE LINE DIAGRAM FOR VAULT

NOTES

- ALL VAULT WORK AND/OR POWER OUTAGES SHALL BE COORDINATED WITH THE AIRPORT MANAGER AND THE RESIDENT ENGINEER.
- 2. ALL ELECTRICAL EQUIPMENT SHALL BE INSTALLED IN CONFORMANCE WITH NFPA 70 - NATIONAL ELECTRICAL CODE (NEC) MOST CURRENT ISSUF IN FORCE, THE RESPECTIVE EQUIPMENT MANUFACTURER'S DIRECTIONS AND ALL OTHER APPLICABLE LOCAL CODES, LAWS, ORDINANCES AND REQUIREMENTS IN FORCE. ANY INSTALLATIONS WHICH VOID THE U.L. LISTING, ETL LISTING. (OR OTHER THIRD PARTY LISTING) AND/OR THE MANUFACTURER'S WARRANTY OF A DEVICE WILL NOT BE PERMITTED.
- 3. ALL EQUIPMENT SHOWN NOT LABELED AS EXISTING IS NEW.
- CONTRACTOR SHALL CONFIRM POWER REQUIREMENTS WITH THE ACTUAL NAMEPLATE ON EACH CONSTANT CURRENT REGULATOR (OR OTHER RESPECTIVE EQUIPMENT) AND ADJUST CIRCUIT BREAKER, WIRE SIZES & CONDUIT SIZES TO CONFORM WITH NEC & MANUFACTURER'S RECOMMENDATIONS WHERE APPLICABLE. WIRE SIZES SHOWN ON THE PLANS
- HIGH VOLTAGE & LOW VOLTAGE CIRCUITS SHALL NOT BE INSTALLED IN THE SAME WIREWAY. A NEW HIGH VOLTAGE WIREWAY SHALL BE FURNISHED & INSTALLED FOR THE 5000 VOLT SERIES CIRCUIT WIRING.
- BRANCH CIRCUITS TO NEW REGULATORS SHALL BE INSTALLED IN THE RESPECTIVE LOW VOLTAGE WIREWAY/DUCT, WITH GRSC AT TRANSITIONS AND UL LISTED LIQUID TIGHT FLEXIBLE METAL CONDUIT AT FINAL CONNECTIONS TO THE REGULATOR. CONDUITS SHALL BE SIZED IN ACCORDANCE WITH
- 7. BOND EXISTING AND NEW REGULATORS TO THE RESPECTIVE VAULT GROUND BUS WITH A DEDICATED #6 AWG COPPER BONDING JUMPER.
- 8. LTFMC DENOTES LIQUID TIGHT FLEXIBLE METAL CONDUIT UL LISTED, SUNLIGHT RESISTANT, & SUITABLE FOR GROUNDING. LIQUID TIGHT FLEXIBLE METAL CONDUIT AND ASSOCIATED FITTINGS SHALL BE U.L. LISTED TO MEET THE REQUIREMENTS OF NEC 350.6. LIQUID TIGHT FLEXIBLE METAL CONDUIT THAT IS USED FOR FLEXIBILITY (INCLUDING CONNECTIONS TO CCR'S & TRANSFORMERS) SHALL REQUIRE AN EXTERNAL BONDING JUMPER OR INTERNAL EQUIPMENT GROUNDING CONDUCTOR PER NEC 350.60. EXTERNAL BONDING JUMPERS USED WITH CCR INSTALLATIONS SHALL BE #6 AWG COPPER (MINIMUM). DO NOT INSTALL LIFMC THAT IS NOT UL LISTED.
- 9. VAULT WORK SHALL BE PAID FOR UNDER ITEM AR109210.
- 10. REPLACE EXISTING 30A, 1 POLE BREAKER FOR PHOTOCELL CKT WITH A 10A, 1 POLE BOLT-ON BREAKER WITH 10,000 AIC AT 120 VAC, SQUARE D CAT. NO. QOBIIO. REPLACE EXISTING 30A, 1 POLE BREAKER FOR INTERFACE PANELS WITH A 10A, 1-POLE BOLT-ON BREAKER WITH 10,000 AIC AT 120 VAC, SQUARE D CAT. NO. QOB110.

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FAIRFIELD MUNICIPAL AIRPORT FAIRFIELD, ILLINOIS

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NEW ELECTRICAL ONE LINE DIAGRAM FOR VAULT

REPLACE RUNWAY TAXIWAY LIGHTING

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