



PROPOSED VAULT FLOOR PLAN
 SCALE 3/8"=1'-0"
 2 0 2 4 FEET

THE LOCATION, SIZE AND TYPE OF MATERIAL OF EXISTING UNDERGROUND UTILITIES INDICATED ON THE PLANS IS NOT REPRESENTED AS BEING ACCURATE, SUFFICIENT OR COMPLETE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL SUCH FACILITIES, INCLUDING SERVICE CONNECTIONS TO UNDERGROUND UTILITIES. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES OF HIS OPERATIONAL PLANS AND SHALL OBTAIN FROM THE RESPECTIVE UTILITY COMPANIES DETAILED INFORMATION AND ASSISTANCE RELATIVE TO THE LOCATION OF THEIR FACILITIES AND THE WORKING SCHEDULE OF THE COMPANIES FOR REMOVAL OR ADJUSTMENT WHERE REQUIRED. IN THE EVENT AN UNEXPECTED UTILITY INTERFERENCE IS ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE UTILITY COMPANY OF JURISDICTION. THE ENGINEER SHALL ALSO BE IMMEDIATELY NOTIFIED. ANY SUCH MAINS AND SERVICES SHALL BE RESTORED TO SERVICE AT ONCE AND PAID FOR BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT.

CALL J.U.L.I.E. FOR UTILITY INFORMATION AT 1-800-892-0123. CONTACT AIRPORT PERSONNEL FOR ASSISTANCE IN LOCATING AIRPORT CABLES. CONTACT FAA FOR ASSISTANCE IN LOCATING FAA CABLES

- NOTES**
- ALL VAULT WORK AND/OR POWER OUTAGES SHALL BE COORDINATED WITH THE AIRPORT DIRECTOR.
 - SEE "VAULT GROUND RISER AND GROUNDING DETAILS" SHEET FOR ADDITIONAL INFORMATION ON THE VAULT GROUND BAR.
 - SEE "PROPOSED ELECTRICAL ONE LINE DIAGRAM FOR AIRPORT VAULT" SHEET FOR REQUIREMENTS ON BRANCH CIRCUIT CONDUCTOR & CONDUIT SIZES AND TYPES.
 - ALL CONNECTIONS TO GROUND BUS BAR SHALL BE WITH 2 HOLE TONGUE LONG BARREL COMPRESSION LUGS BOLTED TO THE BUS BAR.
 - GROUND WIRE CONNECTIONS TO EQUIPMENT SHALL BE WITH 2 HOLE TONGUE LONG BARREL COMPRESSION LUGS BOLTED TO THE DEVICE OR WITH THE RESPECTIVE EQUIP. MANUFACTURER'S LUG OR TERMINAL WHERE APPLICABLE.
 - GROUNDING ELECTRODE CONDUCTORS, BONDING JUMPERS, & INDIVIDUAL GROUND WIRES SHALL NOT BE INSTALLED IN METAL CONDUIT.
 - ALL CONNECTIONS SHALL BE COATED WITH A CORROSION PREVENTATIVE COMPOUND (SACHEM INC. NO-OX-ID A-SPECIAL, OR EQUAL) BEFORE JOINING. ALL COPPER BUS BARS SHALL BE CLEANED PRIOR TO MAKING CONNECTION TO REMOVE SURFACE OXIDATION. CLEAN SURFACES, OF RESPECTIVE DEVICES TO BE BONDED, TO BARE METAL, PER NEC 250-12.
 - INSULATED GROUND WIRES SHALL HAVE GREEN COLORED INSULATION.

- KEYED NOTES**
- VAULT GROUND BAR; 1/4" THICK BY 2" WIDE BY 24' LONG COPPER BUS BAR WITH STANDOFF INSULATORS & STRUT SUPPORT. MOUNT APPROX. 12" ABOVE FLOOR. SEE NOTE 2.
 - CONNECT EXISTING #2/0 GROUNDING ELECTRODE CONDUCTORS FROM GROUND RING TO VAULT GROUND BAR.
 - BOND EACH CCR FRAME TO VAULT GROUND BAR WITH #6 AWG (MIN.) STRANDED COPPER CONDUCTOR.
 - #4/0 AWG STRANDED COPPER CONDUCTOR IN 1" SCHED 40 PVC FROM SERVICE & DISTRIBUTION PANELBOARD TO VAULT GROUND BAR.
 - NEW BRANCH CIRCUIT CONDUCTORS TO RWY 4-22 CCR IN EXISTING CONDUIT. SEE NOTE 3.
 - NEW BRANCH CIRCUIT CONDUCTORS TO TAXIWAY C CCR. EXISTING BRANCH CIRCUIT CONDUCTORS TO RWY 12R-30L CCR TO REMAIN. REPULL AS NECESSARY. SEE NOTE 3.
 - NEW BRANCH CIRCUIT CONDUCTORS & CONDUIT TO TAXIWAY B CKT #1 CCR. SEE NOTE 3.
 - NEW BRANCH CIRCUIT CONDUCTORS TO TAXIWAY A CCR IN EXISTING CONDUIT. SEE NOTE 3.
 - NEW BRANCH CIRCUIT CONDUCTORS & CONDUIT TO TAXIWAY B CKT #2 CCR. EXISTING SPARE 1.5" GRSC BELOW FLOOR SLAB MAY BE USED IF IT IS IN GOOD CONDITION. SEE NOTE 3.
 - NEW TAXIWAY B CKT #2 CCR.
 - NEW SERIES PLUG CUTOUT WITH ENCLOSURE. BOND ENCL. TO VAULT GND BUS WITH #6 AWG COPPER GND.
 - 2 #8, FAA L-828 TYPE C, 5000V CABLES IN CONDUIT FROM CCR TO CUTOUT & ON TO TAXIWAY B CIRCUIT #2 SERIES LIGHTING CIRCUIT. EXISTING 2.5" CONDUIT TO BE USED TO EXIT THE VAULT.
 - CONTROL CIRCUIT WIRING IN 3/4" GRSC FROM L-841 RELAY PANEL TO TAXIWAY B CIRCUIT #2 CCR. PROVIDE 3/4" LIQ. TIGHT FLEX METAL CONDUIT AT FINAL CONNECTION TO CCR.
 - AC SURGE PROTECTOR/TVSS DEVICE. INSTALL BELOW LIGHT SWITCH & THERMOSTAT IMMEDIATELY ADJACENT TO VAULT SERVICE & DIST PANEL. PROVIDE 1.5" GRSC NIPPLE WITH 2 #6 THWN, 1 #6 NEUTRAL, 1 #6 GND, 1 #8 EQUIPT GND.

BY	
REVISION	
DATE	
<p>SAINT LOUIS DOWNTOWN AIRPORT A Division of St. Louis Development Agency I.L. PROJ.: 3-17-03B-816 L. PROJ.: CPS-3480</p>	
HANSON Hanson Professional Services Inc. 4227 Earth City Expressway, Suite 130 St. Louis, MO 63045-1308 Offices Nationwide	845-0553GND_0800 E-102.DWG AS SHOWN 08/16/05 LAYOUT KNL 06/17/05 DRAWN MW 06/17/05 REVIEWED C.A.H. 06/30/05
TAXI GUIDANCE SIGN IMPROVEMENTS	PROPOSED VAULT FLOOR PLAN
<p>23</p> 23 of 28 sheets	