SERVICE PANEL "A"

CKT #	DUTY	SIZE	SIZE	DUTY	CKT #
1	SURGE PROTECTOR/TVSS	60A 2P	125A 2P	PANELBOARD B	2
3	---	---	---	---	4
5	RADIO CONTROL	10A 1P	50A 2P	RUNWAY 18-36 CCR	6
7	PHOTOCELL	10A 1P	---	---	8
9	VAULT EXTERIOR LIGHTING	15A 1P	50A 2P	TAXIWAY CCR	10
11	RUNWAY 36 WIND CONE	20A 1P	---	---	12
13	RUNWAY 18 PLASI	20A 1P	20A 2P	UNIT HEATER EH-1	14
15	RUNWAY 36 PLASI	20A 1P	---	---	16
17	RUNWAY 18 REILS	15A 1P	15A 2P	UNIT HEATER EH-2	18
19	VAULT FAN	15A 1P	---	---	20
21	VAULT INTERIOR LIGHTING	15A 1P	15A 1P	SPARE	22
23	VAULT RECEPTACLES	20A 1P	15A 1P	SPARE	24
25	BLANK		20A 1P	SPARE	26
27	BLANK		20A 1P	SPARE	28
29	BLANK		30A 1P	SPARE	30
31	BLANK			BLANK	32
33	BLANK			BLANK	34
35	BLANK			BLANK	36
37	BLANK			BLANK	38
39	BLANK			BLANK	40
41	BLANK			BLANK	42

GND S/N GND BONDING JUMPER

400 AMP, 120/240 VAC, 1 PHASE, 3 WIRE, 42 CIRCUIT PANELBOARD WITH 400 AMP, 2 POLE MAIN BREAKER WITH 22,000 AIC AT 240 VAC IN A NEMA 1 ENCLOSURE. INCLUDE SEPARATE GROUND BAR KITS. ALL BRANCH BREAKERS SHALL BE BOLT-ON TYPE WITH 22,000 AIC AT 120/240 VAC. PANELBOARD SHALL BE SQUARE D CAT. NO. NQOD42L400CU WITH NQOD2400LAMB MAIN BREAKER KIT IN A NEMA 1 ENCLOSURE, OR APPROVED EQUAL.

NOTES

1. PANELBOARD BUS SHALL BE COPPER.
2. INCLUDE ENGRAVED PHENOLIC LEGEND PLATE LABELED "SERVICE PANEL A, 120/240 VAC, 1 PHASE, 3 WIRE". INCLUDE ADDITIONAL LEGEND PLATE FOR THE MAIN BREAKER LABELED "SERVICE BREAKER".

PANEL B

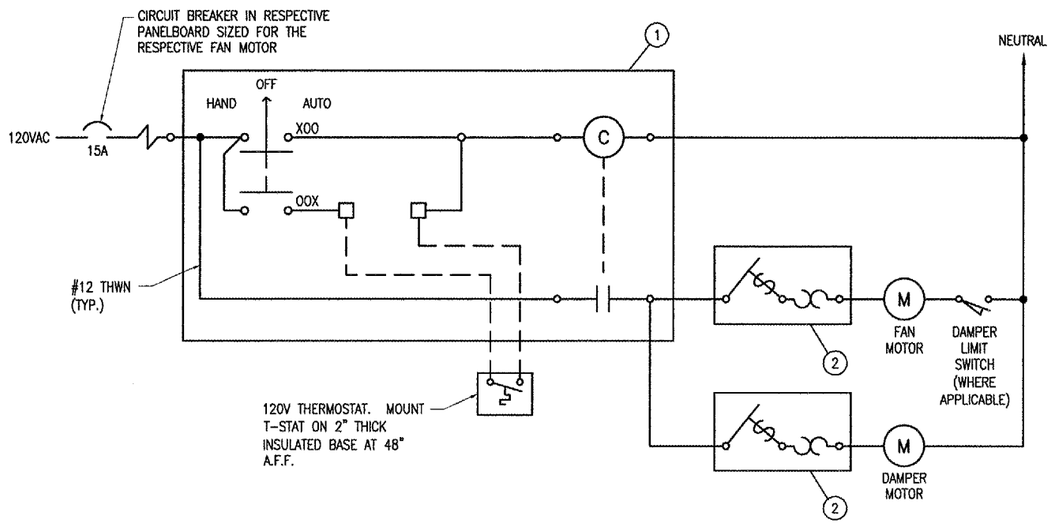
CKT #	DUTY	SIZE	SIZE	DUTY	CKT #
1	RUNWAY 9-27 CCR	80A 2P	15A 2P	RUNWAY 9 REILS	2
3	---	---	---	---	4
5	RUNWAY 9 PLASI STEP-UP XFMR	20A 2P	15A 2P	RUNWAY 27 REILS	6
7	---	---	---	---	8
9	RUNWAY 27 PLASI	20A 1P	20A 2P	SPARE	10
11	RUNWAY 9 WIND CONE	20A 1P	---	---	12
13	SPARE	20A 1P	15A 2P	SPARE	14
15	SPARE	20A 1P	---	---	16
17	BLANK			BLANK	18
19	BLANK			BLANK	20
21	BLANK			BLANK	22
23	BLANK			BLANK	24
25	BLANK			BLANK	26
27	BLANK			BLANK	28
29	BLANK			BLANK	30

GND S/N GND

225 AMP, 120/240 VAC, 1 PHASE, 3 WIRE, 30 CIRCUIT PANELBOARD WITH MAIN LUGS IN A NEMA 1 ENCLOSURE. INCLUDE SEPARATE GROUND BAR KITS. ALL BRANCH BREAKERS SHALL BE BOLT-ON TYPE WITH 22,000 AIC AT 120/240 VAC. PANELBOARD SHALL BE SQUARE D CAT. NO. NQOD30L225CU OR APPROVED EQUAL.

NOTES

1. PANELBOARD BUS SHALL BE COPPER.
2. INCLUDE ENGRAVED PHENOLIC LEGEND PLATE LABELED "PANEL B, 120/240 VAC, 1 PHASE, 3 WIRE, FED FROM SERVICE PANEL A".



EXHAUST FAN CONTROL SCHEMATIC

NOTES

1. GROUND WIRES REQUIRED BUT NOT SHOWN FOR CLARITY.
2. ALL WIRING SHALL BE #12 THWN MINIMUM.
3. PROVIDE A NEMA 1 ENCLOSURE SIZED AS REQUIRED TO INSTALL THE CONTACTOR, HOA SELECTOR SWITCH & TERMINALS.
4. PROVIDE LEGEND PLATE FOR THE CONTACTOR AND FRACTIONAL HP MOTOR STARTER IDENTIFYING THE LOAD SERVED AND THE POWER SOURCE.
5. VERIFY MOTOR HORSEPOWERS AND FULL LOAD AMPS WITH THE RESPECTIVE MANUFACTURER. CONTRACTOR SHALL COORDINATE MOTOR CIRCUIT BREAKER, CONTACTOR, FRACTIONAL HP STARTER, OVERLOADS, WIRE SIZES, CONDUIT SIZES, ETC. FOR THE RESPECTIVE EQUIPMENT FURNISHED, PER NEC & MANUFACTURER'S RECOMMENDATIONS. COORDINATE FAN & LOUVER INSTALLATION WITH BUILDING MFR.
6. INTAKE LOUVERS SHALL OPEN AND EXHAUST FAN SHALL OPERATE WHEN SPACE TEMP EXCEEDS 85°F (ADJUSTABLE). EXHAUST FAN SHALL OPERATE ONLY WHEN DAMPER HAS PROVED "OPEN". IN MANUAL MODE DAMPER SHALL REMAIN OPEN AND FAN SHALL RUN CONTINUOUSLY.

LEGEND

(1) 120VAC, NEMA SIZE 0 (MINIMUM), 1 POLE, FULL VOLTAGE CONTACTOR IN A NEMA 1 ENCLOSURE, SQUARE D CLASS 8502, TYPE SBG5V02 OR APPROVED EQUAL. INCLUDE H-O-A SELECTOR SWITCH WITH EACH CONTACTOR.

(2) FRACTIONAL HORSEPOWER MOTOR MANUAL STARTER, SQUARE D MANUAL STARTER WITH HANDLE/GUARD/LOCK OFF, IN NEMA 1 ENCLOSURE CLASS 2510, TYPE FG5 OR APPROVED EQUAL. INCLUDE MELTING ALLOY TYPE THERMAL OVERLOADS SIZED AS REQUIRED TO PROTECT THE RESPECTIVE MOTOR. 120VAC MOTORS SHALL HAVE SINGLE POLE STARTERS.

DATE	REVISION	BY

TAYLORVILLE MUNICIPAL AIRPORT
TAYLORVILLE, ILLINOIS

IL PROJ.: TAZ-3166 A.I.P. PROJ.: 3-17-0100-B7

HEI Project No. 828-03RWYGD 0800
Filename E-608.DWG
Scale NONE
Date 04/22/05

LAYOUT	KNL	02/17/05
DRAWN	MV	02/18/05
REVIEWED	xxx	xx/xx/xx

HANSON
Hanson Professional Services Inc.
1525 S. Sixth Street
Springfield, Illinois 62703-2888
Offices Nationwide

CONSTRUCT RUNWAY 9-27
PANEL SCHEDULES & DETAILS

MAY 06, 2005 9:08 AM DMV
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