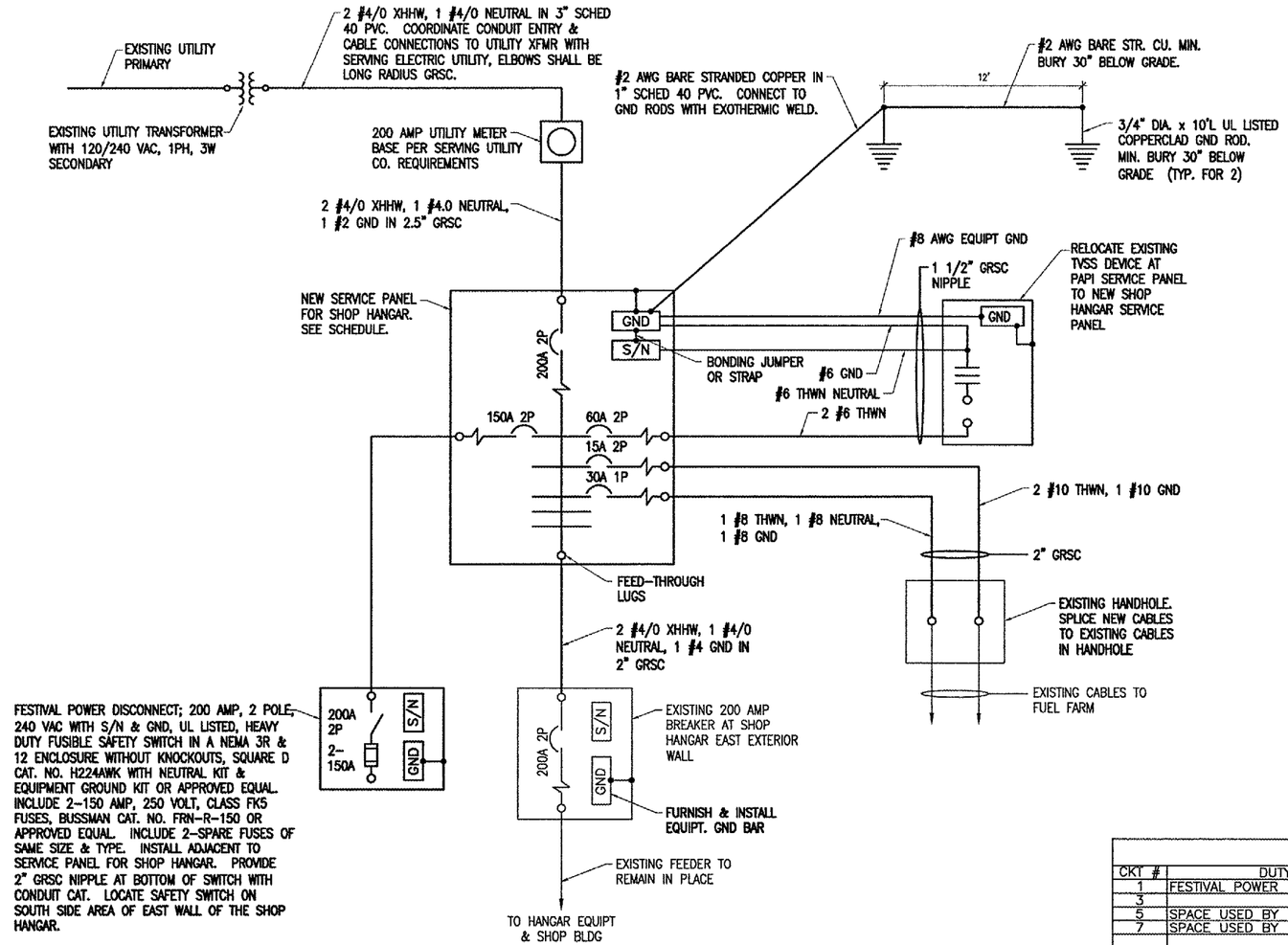

NEW ELECTRICAL ONE-LINE DIAGRAM FOR SHOP HANGAR

NOTES

1. ALL WORK AND/OR POWER OUTAGES SHALL BE COORDINATED WITH THE AIRPORT MANAGER.
2. ALL ELECTRICAL EQUIPMENT SHALL BE INSTALLED IN CONFORMANCE WITH NFPA 70 (NEC MOST CURRENT ISSUE 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 SHALL NOT BE PERMITTED.
3. ALL EQUIPMENT SHOWN IS NEW UNLESS NOTED OTHERWISE, OR LABELED AS "EXISTING".
4. COORDINATE ELECTRIC SERVICE WORK WITH THE SERVING ELECTRIC UTILITY COMPANY:
   COMMONWEALTH EDISON COMPANY
   ATTN. MR. MARK APPLEQUIST
   919 WEST FIRST ST.
   DIXON, IL. 61021
   PHONE 815-284-5871
   FAX 815-284-5840
5. FURNISH & INSTALL A WEATHERPROOF WARNING LABEL FOR EACH METER SOCKET, PANELBOARD, LOAD CENTER, DISCONNECT & CONTROL PANEL TO WARN PERSONS OF POTENTIAL ELECTRIC ARC FLASH HAZARDS, PER THE REQUIREMENTS OF NEC 110.16 "FLASH PROTECTION".
6. ALL CONDUCTOR/WIRING SHALL BE COPPER.
7. 3/C #4/0 XHHW IN 3" SCHED 40 PVC FROM UTILITY TRANSFORMER TO UTILITY METER WILL BE PAID FOR UNDER ITEM AR800990 POWER CABLES IN DUCT PER L.F. ALL OTHER WORK SHOWN ON THIS SHEET WILL BE PAID FOR UNDER ITEM AR109924 REPLACE ELECTRIC SERVICES PER L.S.

SERVICE PANEL FOR SHOP HANGAR

CKT #	DUTY	SIZE	SIZE	DUTY	CKT #
1	FESTIVAL POWER	150A, 2P	60A, 2P	TVSS DEVICE	2
3		---	---		4
5	SPACE USED BY 150A BKR		15A, 2P	GAS PUMP AT FUEL FARM	6
7	SPACE USED BY 150A BKR		---		8
			15A, 2P	SPARE	10
			---		12
			30A, 1P	GAS PUMP AT FUEL FARM	14
			20A, 1P	SPARE	16

GND S/N GND

225 AMP, 120/240 VAC, 1 PHASE, 3 WIRE, 42 CIRCUIT PANELBOARD WITH 200 AMP, 2 POLE MAIN BREAKER WITH 22,000 AIC AT 240 VAC & FEED THROUGH LUGS IN A NEMA 3R & 12 ENCLOSURE, WITH HINGED COVER, UL LISTED SUITABLE FOR SERVICE ENTRANCE. INCLUDE SEPARATE GROUND BAR KIT. ALL BRANCH BREAKERS SHALL BE BOLT-ON TYPE WITH 22,000 AIC AT 120/240 VAC. PANELBOARD SHALL BE SQUARE D CAT. NO. NQOD42L225CUTF WITH NQODQB MAIN BREAKER KIT & QDL22200 MAIN BREAKER IN NH56WP ENCLOSURE OR APPROVED EQUAL.

NOTES

1. PANELBOARD BUSSES SHALL BE COPPER. NEUTRAL BUS SHALL BE COPPER. EQUIPMENT GROUND BAR SHALL BE COPPER.
2. INCLUDE PHENOLIC ENGRAVED LEGEND PLATE FOR MAIN BREAKER LABELED "SERVICE DISCONNECT".
3. INCLUDE PHENOLIC ENGRAVED LEGEND PLATE LABELED "SHOP HANGAR SERVICE PANEL, 120/240 VAC, 1 PHASE, 3 WIRE".

DI022

HANSON
HANSON PROFESSIONAL SERVICES INC.
815 Commerce Drive Suite 200
Oak Brook, Illinois 60523
Telephone: 630.990.3800
Fax: 630.990.3801

City of Dixon
CITY OF DIXON, ILLINOIS
Post Office Box 386
Dixon, Illinois 61021
Telephone: 815.288.1485

DIXON MUNICIPAL AIRPORT
CHARLES R. WALGREEN FIELD

CONSTRUCT REPLACEMENT
AIRFIELD ELECTRICAL VAULT

AIP PROJECT NO. 3-17-0036-B8
IDA PROJECT NO. C73-3548

No.	Drawing Issue Description	Date	By

Date
JUNE 23, 2006

Sheet Title
NEW ELECTRICAL ONE LINE DIAGRAM FOR SHOP HANGAR

843-05C8010
Project Number

KNL	06/14/06
Layout By	Date
KNL	06/14/06
Designed By	Date
RMH	06/23/06
Reviewed By	Date
MV	--- ---
Drawn By	

E17
Sheet No.
SHEET 31 OF 36