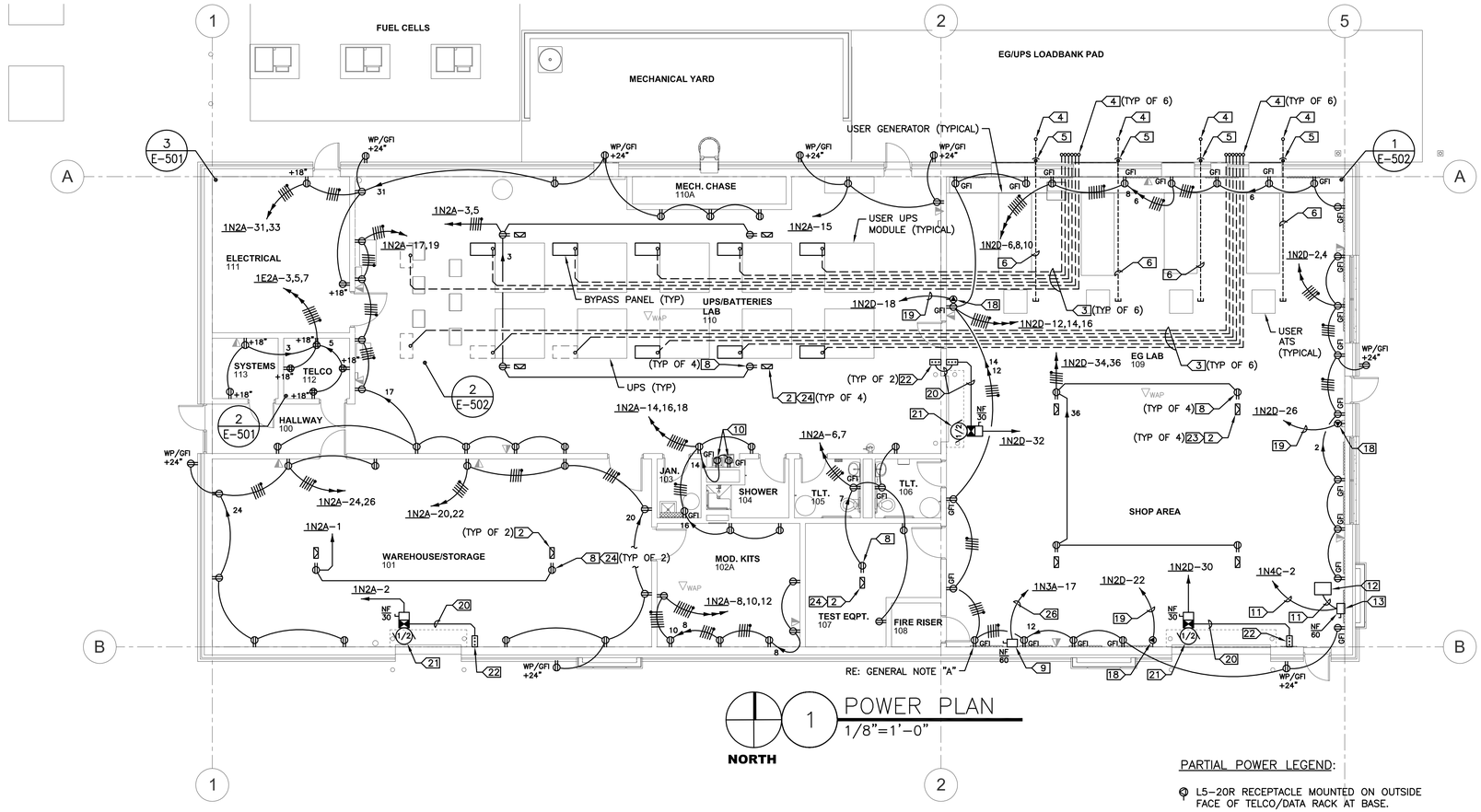


1 POWER PLAN
1/8"=1'-0"
NORTH

PARTIAL POWER LEGEND:

- L5-20R RECEPTACLE MOUNTED ON OUTSIDE FACE OF TELCO/DATA RACK AT BASE.
- L6-30R RECEPTACLE MOUNTED ON OUTSIDE FACE OF TELCO/DATA RACK AT BASE.
- CORD REEL MOUNTED IN STRUCTURE ABOVE.

GENERAL NOTES:

A. ALL RECEPTACLES, DATA OUTLETS, AND TELE/DATA OUTLETS THIS SHEET SHALL BE MOUNTED 48" AFF TO CENTER, UNO.

B. PROVIDE DEDICATED NEUTRALS FOR EACH CIRCUIT, UNO.

C. HOMERUN CIRCUITS AS SHOWN. DO NOT COMBINE HOMERUNS.

D. 120V CIRCUITS LONGER THAN 90' SHALL BE #10 AWG.

E. ADJUST TAPS AT EACH TRANSFORMER TO OBTAIN RATED VOLTAGE AT TRANSFORMER SECONDARY UNDER NORMAL LOAD.

F. CONTRACTOR SHALL ENSURE THAT ALL CODE REQUIRED WORKING CLEARANCES ARE MAINTAINED.

G. RE: SHEET T-301 FOR TELCO/DATA PLAN.

H. SHOP AREA 110, EG LAB 112, AND TOILET 108 SHALL BE CLASSIFIED AS A CLASS 1, DIV. 1 HAZARDOUS AREA IN ANY PITS OR DEPRESSIONS EXTENDING BELOW FINISHED FLOOR, AND AS CLASS 1, DIV. 2 FROM FINISHED FLOOR TO 18" AFF. ALL COMPONENTS SHALL MEET THE APPROPRIATE NEC REQUIREMENTS.

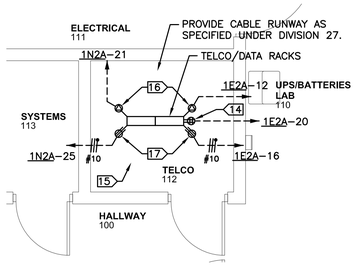
I. ALL CONDUITS IN SHOP AREA 110 AND EG LAB 112 SHALL BE RGSC WITH THREADED FITTINGS.

J. ALL CONDUITS SHALL BE ROUTED OVERHEAD, UNO.

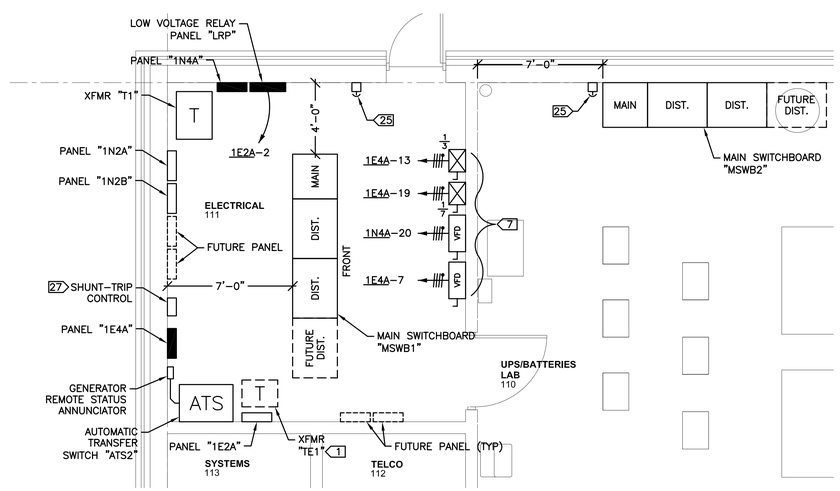
K. NO CONDUIT SHALL BE ROUTED IN OR BELOW SLAB, UNLESS SPECIFICALLY NOTED OTHERWISE.

KEYED NOTES:

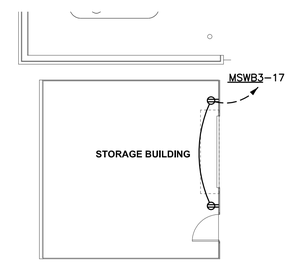
1. SUSPEND TRANSFORMER FROM STRUCTURE. RE: B/E-503.
2. 50' CORD REEL (WITH FLUORESCENT TROUBLE LIGHT WITH RECEPTACLE) MOUNTED TO STRUCTURE. REELCRAFT #L-4035-163-8.
3. (2) 4" AND (1) 1" CONDUITS WITH PULL STRING ROUTED UNDER FLOOR, STUBBED UP AT BYPASS PANEL AND AT LOADBANK. COORDINATE BOTH STUB UP LOCATIONS WITH OWNER.
4. COORDINATE EXACT STUB UP LOCATION WITH OWNER. RE: DETAIL E/E-503.
5. ROUTE CONDUIT UP SURFACE OF BUILDING AND "LB" THROUGH WALL AT STRUCTURAL LEVEL. COORDINATE ELEVATION WITH USER.
6. ROUTE (2) 4" AND (1) 1" CONDUITS WITH PULL STRINGS OVERHEAD AND CAP FOR CABLES TO LOADBANK. COORDINATE EXACT INSTALLATION REQUIREMENTS WITH USER.
7. MOUNT MOTOR STARTERS AND VFD'S STAGGERED IN TWO ROWS TO MINIMIZE WALL SPACE AS MUCH AS POSSIBLE. LIMIT LATERAL WALL SPACE TO 36".
8. RECEPTACLE MOUNTED TO STRUCTURE FOR CORD REEL.
9. DISCONNECT FOR AIR COMPRESSOR. COORDINATE EXACT LOCATION WITH USER. MAKE FINAL CONNECTION TO EQUIPMENT.
10. RECEPTACLE FOR ELECTRIC WATER COOLER. MOUNT BEHIND EQUIPMENT SHROUD. COORDINATE WITH EQUIPMENT INSTALLER.
11. 3 #6, 1 #10 GND., 1"C.
12. TIG WELDER. MAKE FINAL CONNECTION TO WELDER.
13. DISCONNECT FOR TIG WELDER. COORDINATE EXACT LOCATION WITH USER.
14. MOUNT RECEPTACLE ON OUTSIDE FACE OF TELCO/DATA RACK AT BASE. COORDINATE EXACT MOUNTING WITH AMI-400. ROUTE CONDUIT UP FROM BELOW IN SUCH A WAY TO NOT INTERFERE WITH COMMUNICATIONS CABLING.
15. ROOM SHALL BE LAID OUT IN ACCORDANCE WITH DIVISION 27 SPECIFICATIONS.
16. L5-20R RECEPTACLE MOUNTED ON OUTSIDE FACE OF TELCO/DATA RACK AT BASE. COORDINATE EXACT MOUNTING WITH AMI-400. ROUTE CONDUIT UP FROM BELOW IN SUCH A WAY TO NOT INTERFERE WITH COMMUNICATIONS CABLING.
17. L6-20R RECEPTACLE MOUNTED ON OUTSIDE FACE OF TELCO/DATA RACK AT BASE. COORDINATE EXACT MOUNTING WITH AMI-400. ROUTE CONDUIT UP FROM BELOW IN SUCH A WAY TO NOT INTERFERE WITH COMMUNICATIONS CABLING.
18. RECEPTACLE FOR WELDER. NEMA 14-50R FLUSH MOUNTED 48" AFF.
19. 3 #6, 1#10 GND., 1"C.
20. 8 #12, 1 #12 GND., 3/4"C. OR AS REQUIRED.
21. MOTORIZED DOOR OPERATOR.
22. MOTORIZED DOOR OPERATOR CONTROL (SUPPLIED WITH EQUIPMENT).
23. ADJUST CORD REEL MECHANISM SO THAT FLUORESCENT HEAD DOES NOT HANG LOWER THAN 24" AFF.
24. PROVIDE GROMMET THROUGH CEILING TILE FOR CORD. ALIGN CORD REEL SO CORD IS IN APPROXIMATE CENTER OF CEILING TILE.
25. SHUNT TRIP PUSH BUTTON. PROVIDE PLACARD TO READ "SERVICE 2 OF 2 KILL SWITCH" FOR BUTTON IN ROOM 116 AND "SERVICE 1 OF 2 KILL SWITCH" FOR BUTTON IN ROOM 113. STI #SS2031 OR EQUAL.
26. 3 #8, 1 #10 GND., 3/4"C.
27. RE: "SHUNT-TRIP CONTROL DIAGRAM," A/E-503.



2 ENLARGED POWER PLAN – ROOM 114
1/4"=1'-0"
NORTH



3 ENLARGED POWER PLAN ROOMS 110 & 111
1/4"=1'-0"
NORTH



4 STORAGE BUILDING POWER PLAN
1/8"=1'-0"
NORTH

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REV	DATE	DESCRIPTION	CHECK	APP'D
		100% SUBMITTAL		

DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION
MIKE MONRONEY AERONAUTICAL CENTER – OKLAHOMA CITY, OKLAHOMA

PSL – POWER SERVICES LABORATORY

POWER PLAN

Construction Work Request No: 09-018745

REGISTERED PROFESSIONAL ENGINEER
JULIAN DUANE HORNER
17193
05-26-11
OKLAHOMA

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PREPARED BY: Rees Associates		APPROVED BY: Jon Berkman	
DESIGNED: JDH	ISSUED BY: OFFICE OF FACILITY MANAGEMENT AMF-400	DATE: May 26, 2011	E-501
DRAWN: BLP		DRAWING NO. 08-008257	
WORK ORDER NO. 09-018745			15 OF 31