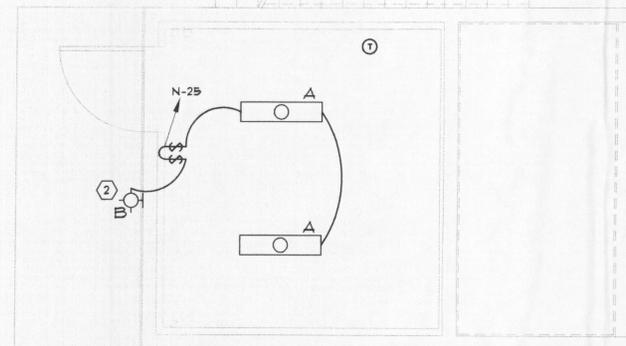


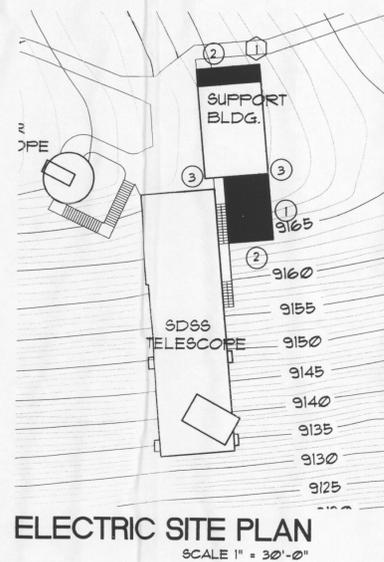
UPPER FLOOR SCHEMATIC LIGHTING PLAN

MARK	MANUFACTURER	CATALOG NUMBER	BULBS
A	COLUMBIA	JT014-332F-FSA12.125-EB0UNV	4-F32T8135
B	MATCH EXISTING		
C	FRESCOLITE	3460-60	2-T8U A-19
X	DUAL LITE	LXJRWUE	Incl.



LOWER FLOOR SCHEMATIC LIGHTING PLAN

- KEYED SITE PLAN NOTES**
- EXISTING COUNTERPOISE WILL BE AFFECTED BY NEW CONSTRUCTION. EXTEND EXISTING COUNTERPOISE WIRING TO NEW INSTALLATION.
 - INSTALL NEW COUNTERPOISE CONSISTING OF 4/0 CU TO 18"x18" COPPER PLATES BURIED 36" DEEP. CONNECT TO LIGHTNING PROTECTION SYSTEM, AND TO SLAB W/M REINFORCING SYSTEM. PROVIDE SPECIAL ELECTRICAL CONNECTIONS OF THE CONCRETE EMBEDDED W/M BY WRAPPING A #10 CU SOFT DRAWN WIRE AROUND EACH W/M (4 WRAPS) AT 12" INTERVALS AND AT ENDPOINTS FROM ONE END OF THE INTERSECTION TO THE OTHER. SILVER SOLDER EACH WRAPPING POINT. AT THE INTERSECTION OF THE SLAB EXPANSION JOINTS, PROVIDE A #10 WIRE AT 6" INTERVALS FROM THE W/M ACROSS THE EXPANSION JOINT TO THE ADJOINING W/M. WRAP AROUND THE W/M (4 TIMES) AND SILVER SOLDER EACH END. NOTIFY THE ARCHITECT FOR INSPECTION PRIOR TO POURING CONCRETE.
 - THE CONTRACTOR MUST WORK WITH THE OWNER TO LOCATE AND WHEN NECESSARY, RELOCATE EXISTING FACILITIES TO NOT DISTURB THE FUNCTION OF THE SITE.



ELECTRIC SITE PLAN
SCALE 1" = 30'-0"

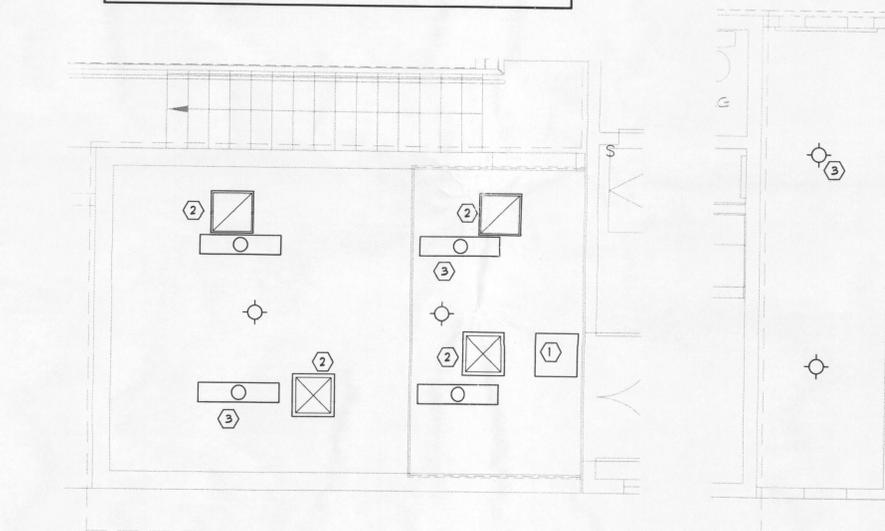
- GENERAL ELECTRICAL NOTES**
- THESE PLANS ARE SCHEMATIC AND DO NOT SHOW THE EXACT LOCATIONS OF EQUIPMENT, CONDUIT ROUTING, ETC. THE CONTRACTOR MUST REFER TO ARCHITECTURAL AND MECHANICAL PLANS AND DETAILS TO OBTAIN COMPLETE INFORMATION.
 - THE CONTRACTOR IS RESPONSIBLE FOR SEEING THAT NEC CLEARANCES AROUND AND ABOVE ELECTRICAL EQUIPMENT ARE MAINTAINED. SEE NEC 110.26 FOR SPECIFIC INFORMATION. SPECIFICALLY DO NOT ALLOW FOREIGN EQUIPMENT ABOVE PANELBOARDS AND INSTALL TO LEAVE AT LEAST 36" OF SPACE IN FRONT.
 - THE CONTRACTOR MAY INSTALL UP TO 9 CURRENT CARRYING CONDUCTORS IN A CONDUIT. LOADINGS ARE BASED ON THIN INSULATION AND DERATINGS FOR TEMPERATURE AND UP TO 9 CONDUCTORS IN A CONDUIT.
 - ELECTRICAL DEVICE INSTALLATION SHALL COMPLY WITH THE ACCESSIBILITY CODES ADOPTED FOR NEW MEXICO. SPECIFICALLY APPLICABLE SWITCHES AND CONTROLS SHALL BE MOUNTED AT 44" AFF. TO THE BOTTOM OF THE BOX, AND APPLICABLE RECEPTACLES SHALL BE MOUNTED AT 15" AFF. TO THE BOTTOM OF THE BOX, UNLESS NOTED OTHERWISE. ELECTRICAL DEVICES ABOVE A COUNTERTOP OR OTHER OBSTRUCTION SHOULD COMPLY WITH ICC/ANSI 117.1-1998 SECTION 308.
 - EXTERIOR FIXTURES SPECIFIED ON THIS PROJECT COMPLY WITH THE STATE OF NEW MEXICO NIGHT SKY PROTECTION ACT. IF ALTERNATE FIXTURES ARE USED, THEY MUST COMPLY AS WELL.
 - WIRE SIZING SHALL COMPLY WITH THE STATE STANDARDS FOR VOLTAGE DROP.
 - THIS BUILDING REQUIRES 1 EXIT, THEREFOR EMERGENCY LIGHTING IS NOT REQUIRED.

- KEYED LIGHTING PLAN NOTES**
- CONNECT EXIT LIGHTING TO NEAREST UNSWITCHED LIGHTING CIRCUIT SERVING THE SAME IMMEDIATE AREA.
 - EXTERIOR FIXTURE TO MATCH EXISTING FIXTURES
 - CEILING LIGHTS IN ATTIC. PROVIDE A SWITCH IN THE ATTIC AT THE ENTRANCE.

ELECTRICAL LEGEND

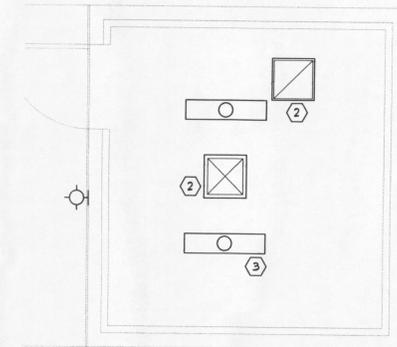
	LIGHT FIXTURE, CEILING MTD		DUPLEX, CONVENIENCE OUTLET
	LIGHT FIXTURE, WALL MTD		DUPLEX, GFCl OUTLET
	LIGHT FIXTURE, RECESSED		DUPLEX/WEATHERPROOF OUTLET
	LIGHT FIXTURE, PORCELAIN SOCKET		4-PLEX CONVENIENCE OUTLET
	FULL SPECTRUM FLUORESCENT LAMPS, LAY-IN CEILING TYPE		FLOOR OUTLET
	EMERGENCY LIGHTING		JUNCTION BOX
	EXIT SIGN		SWITCH, SINGLE POLE
	CEILING FAN W/LIGHT		3-WAY SWITCH
	CEILING FAN NO LIGHT		WALL MOUNTED THERMOSTAT
	FULL SPECTRUM FLUORESCENT CEILING MOUNTED		EXHAUST FAN
	FULL SPECTRUM FLUORESCENT COVE LIGHT		TELEVISION / HI-FI
	FULL SPECTRUM FLUORESCENT WALL SLOT		DATA / TELEPHONE
	SPOTLIGHT		TIC MARKS INDICATE HOT, NEUTRAL, SWITCHED LEG, & GROUND
			CONDUIT IN SLAB OR FLOOR

- VERIFY MOUNTING HT. OF ALL WALL MOUNTED DEVICES WITH OWNER.
- COORDINATE WITH MECHANICAL FOR ADDITIONAL REQUIREMENTS.
- 44 INDICATES SPECIAL MTG. HEIGHT IN INCHES ABOVE FLOOR TO CENTER.



1. FLOOR REFLECTED CEILING PLAN

- REFLECTED CEILING NOTES**
- 24"x24" ACCESS HATCH
 - MECHANICAL OUTLETS SEE SHEET M1.
 - LIGHT FIXTURES SEE SHEET E1.



2. FLOOR REFLECTED CEILING PLAN

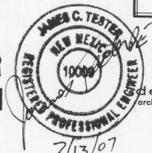
REFLECTED CEILING PLAN AND SCHEMATIC LIGHTING PLAN

SCALE 1/4" = 1'-0"

APACHE POINT OBSERVATORY SSSS BLDG EXPANSION

PREPARED FOR ASTROPHYSICAL RESEARCH CONSORTIUM SUNSPOT NEW MEXICO

DATE	PHASE
1/13/07	PERMIT



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