



KEYED NOTES

1 SEE ELECTRICAL SYSTEM GROUNDING DIAGRAM BELOW. PROVIDE GROUNDING RODS IN EARTH AS DESCRIBED IN DETAIL.

PANELBOARD: PANEL-'NSHACK' MOUNTED: SURFACE LOCATION: GUARD SHACK 'NORTH'
AMPS: 225A VOLTS: 120/208V PHASE/WIRE: 3ø,4W MINS: 125A MAIN

LOAD	LOAD, KW			OCP			CIRC			LOAD, KW			LOAD	
	LIGHT	RECP	O/W	A	P	OC	A	P	OC	LIGHT	RECP	O/W		
INTERIOR LIGHTING & FAN	0.9			20	1	1	A	2	2	30			4.8	DWH-1
EXTERIOR LIGHTING	0.7			20	1	3	B	4	-					
GUARDSHACK COUNTER RECEP.TS.	0.8			20	1	5	C	6	3	20			4.0	EMH-1
GUARDSHACK COUNTER RECEP.TS.	0.8			20	1	7	A	8	-					
GUARDSHACK COUNTER RECEP.TS.	0.8			20	1	9	B	10	-					
GUARDSHACK COUNTER RECEP.TS.	0.8			20	1	11	C	12	1	20			1.6	CU-1
GUARDSHACK EXTERIOR RECEP.TS.	0.4			20	1	13	A	14	1	15			0.1	AC-1
GUARDSHACK EXTERIOR RECEP.TS.	0.6			20	1	15	B	16	1	20				SPARE
TIRE SHREDDER		0.7		20	1	17	C	18	1	20				SPARE
VEHICLE GATE		0.7		20	1	19	A	20	1	20			0.4	SECURITY CAMERAS (ROOF)
VEHICLE GATE		0.7		20	1	21	B	22	1	20			0.4	SECURITY CAMERAS (SIDES)
TIRE SHREDDER		0.7		20	1	23	C	24	1	20				SPARE
TIRE SHREDDER		0.7		20	1	25	A	26	1	20				SPARE
VEHICLE GATE		0.7		20	1	27	B	28	1	20				SPARE
TIRE SHREDDER		0.7		20	1	29	C	30	1	20				SPARE
VEHICLE GATE		0.7		20	1	31	A	32						SPACE
TIRE SHREDDER		0.7		20	1	33	B	34						SPACE
VEHICLE GATE		0.7		20	1	35	C	36						SPACE
TVSS		0.1		30	3	37	A	38						SPACE
														SPACE
														SPACE
SUB-TOTAL, CL, KW	1.6	4.2	7.2										11.3	SUB-TOTAL, CL, KW
TOTAL, CL, KW	1.6	4.2	18.5											
DEMAND FACTOR	1.0	1.0	0.8											
TOTAL, CL, KW	1.6	4.2	14.8											

TOTAL CONNECTED LOAD 20.6 KW/360 = 57.2A
10,000 A.I.C.

PANELBOARD: PANEL-'WSHACK' MOUNTED: SURFACE LOCATION: GUARD SHACK 'WEST'
AMPS: 100A VOLTS: 120/208V PHASE/WIRE: 3ø,4W MINS: 100A MAIN

LOAD	LOAD, KW			OCP			CIRC			LOAD, KW			LOAD	
	LIGHT	RECP	O/W	A	P	OC	A	P	OC	LIGHT	RECP	O/W		
INTERIOR LIGHTING	0.2			20	1	1	A	2	1	20			0.7	TIRE SHREDDER
EXTERIOR LIGHTING	0.2			20	1	3	B	4	1	20			0.7	VEHICLE GATE
GUARDSHACK COUNTER RECEP.TS.	0.8			20	1	5	C	6	1	20			0.7	TIRE SHREDDER
GUARDSHACK COUNTER RECEP.TS.	0.8			20	1	7	A	8	1	20			0.7	VEHICLE GATE
GUARDSHACK COUNTER RECEP.TS.	0.8			20	1	9	B	10	1	20			0.7	TIRE SHREDDER
GUARDSHACK BEAR RECEP.TS.	0.6			20	1	11	C	12	1	20			0.7	VEHICLE GATE
GUARDSHACK EXTERIOR RECEP.TS.	0.4			20	1	13	A	14	1	20			1.6	CU-1
GUARDSHACK EXTERIOR RECEP.TS.	0.4			20	1	15	B	16	1	20			0.1	AC-1
SPARE				20	1	17	C	18	1	20				SPARE
SPARE				20	1	19	A	20	1	20			0.4	SECURITY CAMERAS (ROOF)
CH-1				4.0	30	2	21	B	22	1	20		0.4	SECURITY CAMERAS (SIDES)
														SPACE
														SPACE
														SPACE
														SPACE
SUB-TOTAL, CL, KW	0.4	3.6	4.1										6.74	SUB-TOTAL, CL, KW
TOTAL, CL, KW	0.4	3.6	10.8											
DEMAND FACTOR	1.0	1.0												
TOTAL, CL, KW	0.4	3.6	9.1											

TOTAL CONNECTED LOAD 13.1 KW/360 = 36A
10,000 A.I.C.

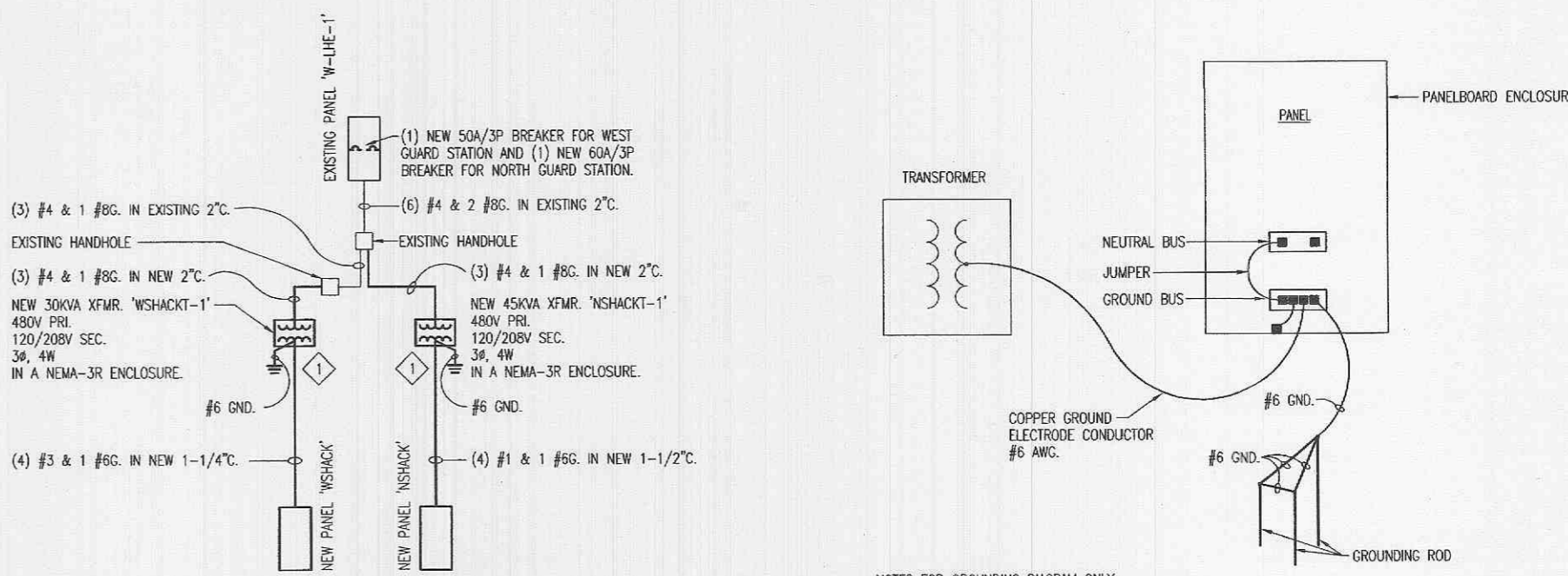
ELECTRICAL SYMBOLS

- ① LETTER INDICATES TYPE OF LIGHT FIXTURE
- ⊕ DUPLEX RECEPTACLE (+18" UNLESS NOTED OTHERWISE)
- ⊕⊕ DOUBLE DUPLEX RECEPTACLE
- ⊕⊕ GROUND FAULT RECEPTACLE
- ⊕⊕ WP WEATHERPROOF DUPLEX RECEPTACLE (WF)
- ⊕⊕ WALL OUTLET FOR TELEPHONE/DATA (+18" UNLESS NOTED OTHERWISE)
- ⊕⊕ DISCONNECT SWITCH, F=FUSED, NF=NONFUSED (+48" UNLESS NOTED OTHERWISE)
- ⊕ MOTOR
- SINGLE POLE SWITCH (+48" UNLESS NOTED OTHERWISE)
- 3 THREE WAY SWITCH
- 3 M MANUAL STARTER
- HOME RUN CONDUIT - SHORT STROKES INDICATE PHASE OR SWITCH WIRES, LONG STROKES INDICATE NEUTRAL, LONG STROKES WITH DOT INDICATE GROUND CONDUCTORS.
- CONDUIT CONCEALED IN OR BELOW FLOOR/GRADE.
- ⊕ JUNCTION BOX AS NOTED.

LIGHTING FIXTURE SCHEDULE (SEE NOTES 1,2,3 & 4)

TYPE	MANUFACTURER & CATALOG NO.	VOLTAGE	LAMPS	DESCRIPTION
A	LITHONIA #ZPM3 G 332	120	3-F032 (18 OCTRON)	2'x4' RECESSED, 3-LAMP, STATIC, 3-ROWS OF 8, 24 CELL SEMI-SPECULAR LOW IRIDESCENT PARABOLIC, 3" DEEP LAMBERS FLUORESCENT W/ELECTRONIC DIMMABLE LUTRON HI-LUMINE BALLAST #FD8-4827-120-3 100% TO 1% DIMMING CAPABILITY.
B	LITHONIA #AF-1-32TR-6-AR-120-GB10	120	PL-132W/30/4P	6" DIAMETER, OPEN REFLECTOR, HORIZONTAL LAMP, COMPACT FLUORESCENT DOWN LIGHT W/SPECULAR LOW IRIDESCENT FINISH.
C	LITHONIA #TWI-175M-120-PE	120	M175/C/U	WALL MOUNTED AREA LIGHTER, GLASS REFRACTOR, FURNISH W/BUILT-IN BUTTON TYPE PHOTOELECTRIC CELL.
D	CARDCO #BRM20-42-50MH-120-BRP-F-SHD	120	MP50/C/U/MED	8" BOLLARD, 42" TALL BRONZE FINISH WITH FUSING AND 180 DEGREE SHIELD. SHIELD TO BE LOCATED ON GUARD SHACK SIDE. COORDINATE ANCHOR BOLT LOCATION W/FACTORY SUPPLIED TEMPLATE.
E	SPAULDING MIAMI #8-MI-800ma 277V	277	F96T12/HO 800ma	8'-0" FLUORESCENT STRIP W/800ma HIGH OUTPUT LAMP, DAMP LABEL TO BE USED AS CONTINUOUS ROW MOUNTING. FURNISH W/LOW TEMPERATURE -20' BALLAST.
F	DAYBRITE #NS-2-32-120-EB	120	2-F032 (18 OCTRON)	4'-0" FLUORESCENT SIDE MOUNT/ANGLE STRIP, DAMP LABEL FURNISH W/ELECTRONIC BALLAST O' BALLAST.
G	KIM #ENTABULATURE (MATCH EXISTING SITE FIXTURES)	277	MP400/C/U	PARKING LOT LIGHT FIXTURE ON 25'-0" POLE (POLE/FIXTURE TO MATCH EXISTING ON SITE). FURNISH W/HIGH POWER FACTOR BALLAST.
H	LITHONIA #TWA-50M-120-LP1-PE	120	LAMP INCLUDED	WALL MOUNTED MINI AREA LIGHTER, POLYCARBONATE REFRACTOR. FURNISH W/BUILT IN BUTTON TYPE PHOTOELECTRIC CELL.

- LIGHT FIXTURE SCHEDULE NOTES:**
- COLOR TEMPERATURE OF ALL ALL EXTERIOR LIGHTS TO BE 4000K AND ALL INTERIOR LIGHTS TO BE 3000K.
 - ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR DETERMINING MOUNTING TYPES OF ALL RECESSED FLUORESCENT LIGHT FIXTURES (LAY-IN, PLASTER, GYP BOARD, ETC.) AND SUBMIT SHOP DRAWINGS ACCORDINGLY.
 - FLUORESCENT LAMPS SPECIFIED ARE BY SYLVANIA. CRI: 75, APPROVED EQUAL BY G.E. AND PHILLIPS ARE ACCEPTABLE.
 - APPROVED EQUAL LIGHT FIXTURES BY THE FOLLOWING MANUFACTURERS ARE ALSO ACCEPTABLE FOR LIGHT FIXTURES SHOWN ON THIS SCHEDULE: COLUMBIA, LIGHTOLIER, KURT VERSEN, HALO, DAYBRITE, GARCCO, WILLIAMS, HALO, LEDALITE, METALUX.



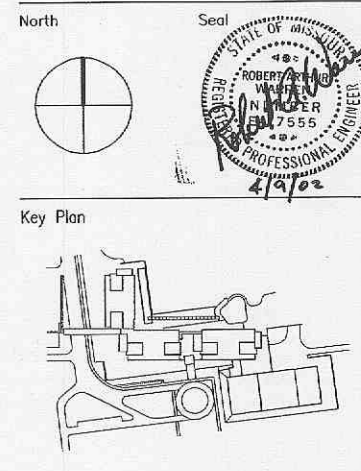
- NOTES FOR GROUNDING DIAGRAM ONLY:**
- INSTALL GROUNDING RODS AS MANY AS NECESSARY FOR 25 OHM OR LESS GROUND RESISTANCE. WHERE MORE THAN ONE GROUNDING ROD IS REQUIRED THE SPACE BETWEEN GROUNDING RODS SHALL NOT BE LESS THAN 6 FEET.
 - GROUNDING RODS SHALL BE COPPER OR COPPER CLAD, 10 FEET LONG AND 5/8" DIAMETER MINIMUM.
 - JUMPER CABLES SHALL BE THE SAME SIZE OF COPPER GROUND ELECTRODE CONDUCTOR.
 - PROVIDE EXOTHERMIC WELD CONNECTIONS AT GROUNDING RODS.

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Issue

Date	Description	Drawn	Chk.
		PW	RGH



Date 19 DEC. 2001 Project Code 98-0478-001
Drawn Checked
CAD File E3.1.DWG
Scale NONE
Original drawing sheet is 48" x 36" Scale accordingly if reduced
LIGHT FIXTURE AND PANEL SCHEDULES
Drawing Number **E3.1**