E2 PANEL SCHEDULE — 3 PHASE 4 WIRE — 277/480 VOLTS

REMARKS	LOAD A	LOAD B	LOAD C	LCL	LTG	RECP	MTR	EQ	SPC	BKR	CIR	CIR	BKR	SPC	EQ	MTR	RECP	LTG	LCL	LOAD A	LOAD B	LOAD C	REMARKS
elec. rm. lights										1-20	1	2	3-15						2108	2108			ahu-1 - 5hp
spare											3	4							2108		2108		
											5	6							2108			2108	
mech rm. lights	680			680							7	8	3-15							388			ahu-2 - 3/4hp
kit. hall lt.t.b. lights	3840			3840							9	10								388			
bath/toilet lights			1008	1008							11	12										388	
pumps #1+2	1886									3-15	13	14	3-15						943				rf/exh - 2hp
2hp each		1886									15	16								943			
			1886								17	18									943		
spare										3-15	19	20	3-45						1804	4520			30kva trans
											21	22									4934		
											23	24										8024	
space											25	26											space
											27	28											
											29	30											
											31	32											
											33	34											
											35	36											
SUB-TOTAL	2566	5726	2894	5528															8128	7959	8373	9463	

TOTAL WATTS	36981	SIZE MAINS	—
TOTAL LCL 13656 X25%	4314	MAIN BKR.	SCA 3P
TOTAL AMPS	50A	LOCATION	MAIN BLDG
FEEDERS	SEE ONE LINE		
A.I.C.	14,000A		
MOUNTED	SURFACE		

EL2 PANEL SCHEDULE — 3 PHASE 4 WIRE — 120/208 VOLTS

	REMARKS	LOAD A	LOAD B	LOAD C	LCL	LTG	RECP	MTR	EQ	SPC	BKR	CIR	CIR	BKR	SPC	EQ	MTR	RECP	LTG	LCL	LOAD A	LOAD B	LOAD C	REMARKS
	toilet controls	1000									1-20	1	2	1-20							1000			boilers
	reception area recep's		360									3	4									1000		
	1ST+2ND mech recep's			1080								5	6										1000	
	mech rm 2nd level	900										7	8								360			tel bb
	front+side lts		1248		1248							9	10									360		security cab
	24hr+toilet.entry			556	556							11	12										500	fire alarm panel
	recircpump+aqua	300										13	14								360			sec. comp office
1	heat trace cable		108									15	16									360		sec. comp office
2	rear path lts			264								17	18										1000	microwave
	dampers upper mech	200										19	20								200			dwyer unit
	temp cont. pnls		1000									21	22									500		cameras on wel.ctr
	1/6hp pump #3			528								23	24							1176			1176	exh fan 2 - 1/2hp
	spare											25	26							200	200			exh fan 3
												27	28											spare
												29	30											
												31	32											
												33	34											
												35	36											
	space											37	38											space
												39	40											
												41	42											
	SUB-TOTAL	2400	2714	2348	1804															1376	2120	2220	3676	

TOTAL WATTS	13484	SIZE MAINS	125A
TOTAL LCL 3180 X25%	795	MAIN BKR.	100A-3P
TOTAL AMPS	38A	LOCATION	MAIN BLDG
FEEDERS	SEE ONE LINE		
A.I.C.	10,000A		
MOUNTED	SURFACE		

(1) PROVIDE 30mA GFI CIRCUIT BREAKER

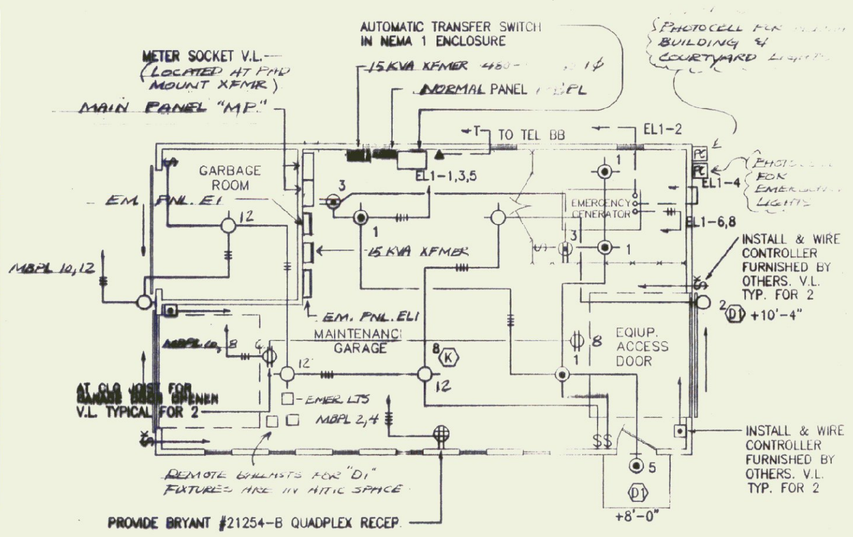
(2) PROVIDE 2 POLE RELAY WITH ONE NO AND ONE NC CONTACT. CONTROL COIL WITH GENERATOR START CIRCUIT. THESE LIGHTS TO BE ENERGIZED ONLY WHEN THE GENERATOR RUNS.

E1 PANEL SCHEDULE — 3 PHASE 4 WIRE — 277/480 VOLTS

	REMARKS	LOAD A	LOAD B	LOAD C	LCL	LTG	RECP	MTR	EQ	SPC	BKR	CIR	CIR	BKR	SPC	EQ	MTR	RECP	LTG	LCL	LOAD A	LOAD B	LOAD C	REMARKS
1	south entry road	896			896						1-20	1	2	3-90						2108	10625			panel E2
	car parking		1195		1195							3	4							2108		14099		in main bldg
	bus parking			925	925							5	6							2108			12367	
	wel.plaza+bus unload	1720			1720							7	8	3-25						400	1400			15kva transformer
	spare											9	10									1560		in maint bldg
												11	12										1067	
												13	14	1-20										spare
												15	16											
												17	18											
	space											19	20											space
												21	22											
												23	24											
												25	26											
												27	28											
												29	30											
												31	32											
												33	34											
												35	36											
	SUB-TOTAL	2616	1195	925	4736															8528	11925	15659	13424	

TOTAL WATTS	45744	SIZE MAINS	125A
TOTAL LCL 13264 X25%	3316	MAIN BKR.	3P-100A
TOTAL AMPS	59A	LOCATION	MAINT. BLDG
FEEDERS	SEE ONE LINE		
A.I.C.	14,000A		
MOUNTED	SURFACE		

(1) PROVIDE A TORK 4 POLE 7-DAY TIME CLOCK WITH SKIP A DAY AND RESERVE POWER TORK #W402-L TO CONTROL CIRCUITS 1,3,5,+ 7



MAINTENANCE BUILDING POWER AND LIGHTING PLAN

SCALE: 1/8"=1'-0"

(SEE DWG AB-15 FOR PANEL "L" SCHEDULE)

EL1 PANEL SCHEDULE — 3 PHASE 4 WIRE — 120/208 VOLTS

	REMARKS	LOAD A	LOAD B	LOAD C	LCL	LTG	RECP	MTR	EQ	SPC	BKR	CIR	CIR	BKR	SPC	EQ	MTR	RECP	LTG	LCL	LOAD A	LOAD B	LOAD C	REMARKS
	maint.bldg lts	400			400						1-20	1	2	1-20							1000			gen. gc connection
	maint.bldg gen. recep		360									3	4									1800		water jacket heater
1	maint.bldg exter. lt			67								5	6										1800	crankcase heater
	spare											7	8								80			battery pad heater
												9	10											spare
												11	12											
												13	14											space
												15	16											
												17	18											
	space											19	20											
												21	22											
												23	24											
	SUB-TOTAL	400	360	67	400																1080	1800	1800	

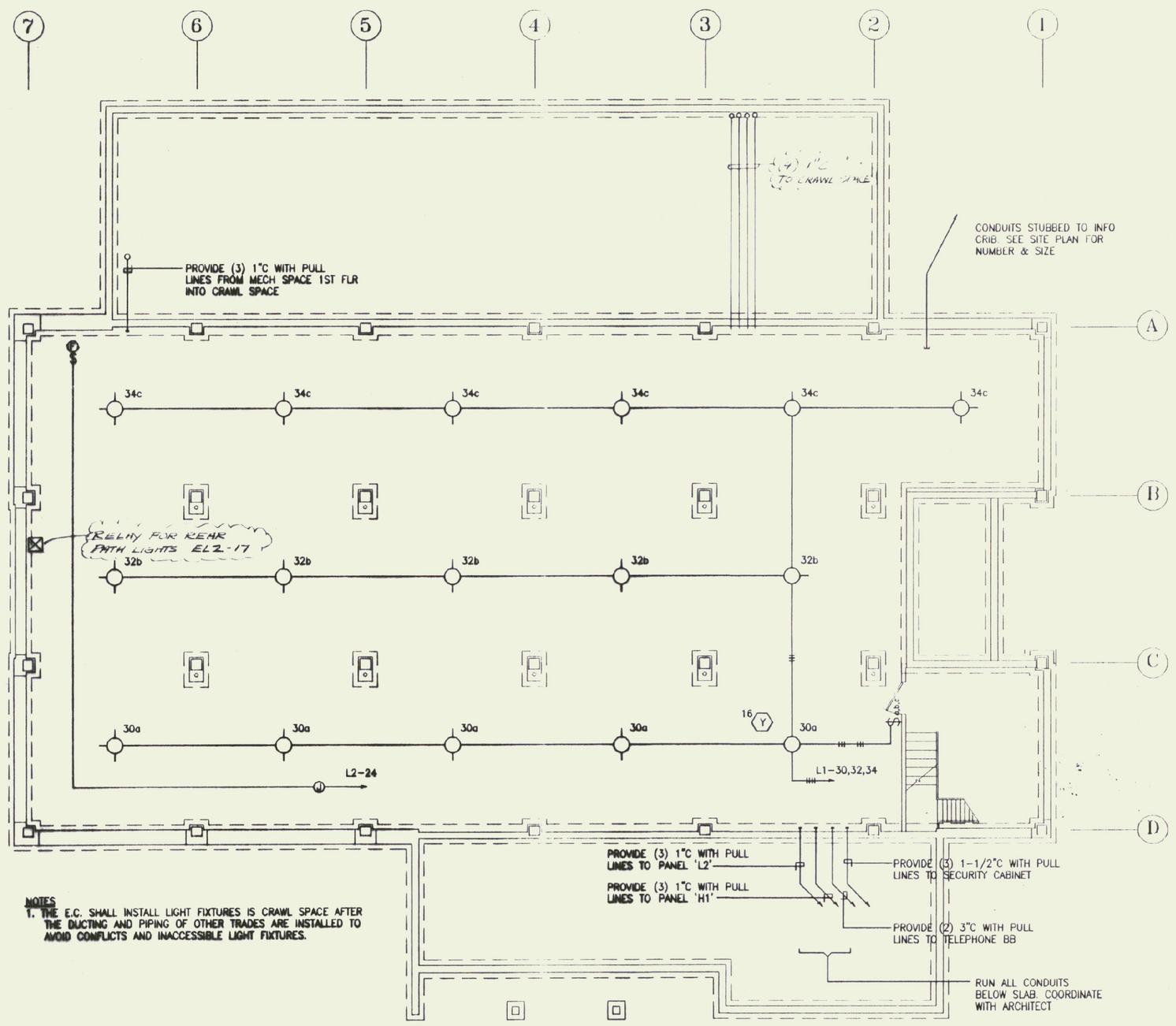
TOTAL WATTS	5307	SIZE MAINS	125A
TOTAL LCL 400 X25%	100	MAIN BKR.	3P-50A
TOTAL AMPS	15A	LOCATION	MAINT. BLDG
FEEDERS	SEE ONE LINE		
A.I.C.	10,000A		
MOUNTED	SURFACE		

(1) PROVIDE A PHOTOCELL TORK #2101 AND 7-DAY TIME CLOCK WITH SKIP A DAY TORK #W200. OPERATION IS PHOTOCELL ON AND TIMECLOCK OFF.

DIMMER PANEL SCHEDULE

ZONE	CIRCUIT	LOAD	AREA SERVED
1	1	600W	SOUTHWEST TRACK
2	3	600W	SOUTHWEST TRACK
3	5	600W	SOUTHWEST TRACK
4	7	600W	SOUTHWEST TRACK
5	9	600W	NORTHWEST TRACK
6	11	600W	NORTHWEST TRACK
7	13	600W	NORTHWEST TRACK
8	15	600W	NORTHWEST TRACK
9	8	600W	SOUTHEAST TRACK
10	12	600W	SOUTHEAST TRACK
11	6	600W	SOUTHEAST TRACK
12	10	600W	SOUTHEAST TRACK
13	2	600W	NORTHEAST TRACK
14	4	600W	NORTHEAST TRACK
15	14	600W	NORTHEAST TRACK
16	16	600W	NORTHEAST TRACK
TOTAL		9600W	

1. PROVIDE TWO REMOTE CONTROL SWITCH BANKS. ONE SHALL CONTROL ZONES 1 THROUGH 8 AND THE SECOND SHALL CONTROL ZONES 9 THROUGH 16. MOUNT AT RECEPTION DESK. ADJUST LIGHTING AS DIRECTED BY THE OWNER.
2. THE E.C. SHALL INSTRUCT THE OWNER ON THE USE AND SETTINGS OF THE DIMMER CONTROL BANKS WITH A MINIMUM OF A 3HR CLASS. TIME AND DATE TO BE DETERMINED BY THE OWNER.



NOTES
1. THE E.C. SHALL INSTALL LIGHT FIXTURES IS CRAWL SPACE AFTER THE DUCTING AND PIPING OF OTHER TRADES ARE INSTALLED TO AVOID CONFLICTS AND INACCESSIBLE LIGHT FIXTURES.

CRAWL SPACE POWER AND LIGHTING PLAN

H1 PANEL SCHEDULE — 3 PHASE 4 WIRE — 277/480 VOLTS

REMARKS	LOAD A	LOAD B	LOAD C	LCL	LTG	RECP	MTR	EQ	SPC	BKR	CIR	CIR	BKR	SPC	EQ	MTR	RECP	LTG	LCL	LOAD A	LOAD B	LOAD C	REMARKS
hid main hall	2784			2784						1-20	1	2	3-150							21033			15kva transformer
off,break,tll,hall,stor		871		871							3	4			3	P	250A				21909		
spare											5	6										21833	
											7	8	3-90							13340			ev-1 outside
											9	10									13340		
											11	12										13340	
											13	14	1-20										spare
											15	16											
											17	18											
space											19	20											
											21	22											
											23	24											
											25	26											space
											27	28											
											29	30											
											31	32											
											33	34											
											35	36											
SUB-TOTAL	2784	871		3655									250A						17813	34373	35249	35173	

TOTAL WATTS	108450	SIZE MAINS	—
TOTAL LCL 21468 X25%	5367	MAIN BKR.	250A
TOTAL AMPS	137A	LOCATION	MAINT. BLDG
FEEDERS	SEE ONE LINE		
A.I.C.	14,000A		
MOUNTED	SURFACE		

FIRE ALARM ZONE SCHEDULE

ZONE	AREA DESCRIPTION
1	MAIN BUILDING PULL STATIONS
2	AHU-1 DUCT DETECTOR
3	AHU-2 DUCT DETECTOR
4	FLOW SWITCH SPRINKLER MAIN
5	TAMPER SWITCHES SPRINKLER MAIN
6	SPARE
7	SPARE
8	SPARE

RECORD DRAWING

SCALE: 1/8"-1'-0"

NO.	DATE	REVISIONS	DRWN	CHKD

TIMOTHY D. SMITH & ASSOCIATES, PC ARCHITECTS
OLD RAILROAD STATION, NORTH BENNINGTON, VERMONT 05257
802-442-8184, FAX 802-442-5241

WRIGHT ENGINEERING, LTD. — CIVIL ENGINEERS — 128 MERCHANTS ROW - P.O. BOX 176, RUTLAND, VERMONT 05702-0176 — 802-775-2511, FAX 775-8915
ROBT W. HALL — CONSULTING ENGINEERS, INC — 540 MEADOW STREET EXTENSION, STE. 2, AGAWAM, MASSACHUSETTS 01001-0002 — 413-789-0660, FAX 789-3295
T.J. BOYLE AND ASSOCIATES — LANDSCAPE ARCHITECTS — 301 COLLEGE STREET, BURLINGTON, VERMONT 05401 — 802-658-3555, FAX 863-1562

STATE OF VERMONT — ROBERT W. HALL — No. 2200 — REGISTERED PROFESSIONAL ENGINEER

PROJECT NO.IM 091-1 (30)
SOUTHEAST VERMONT WELCOME CENTER
GUILFORD, VERMONT

SHEET TITLE: CRAWL SPACE POWER AND LIGHTING PLAN

DSGN BY:
DRWN BY: MLB
CHKD BY: RWH
CHKD BY:

STATE OF VERMONT
AGENCY OF ADMINISTRATION
DEPARTMENT OF
BUILDINGS & GENERAL SERVICES

DATE: 01-16-98 SHEET NO.___ OF___ SHEETS

E-5