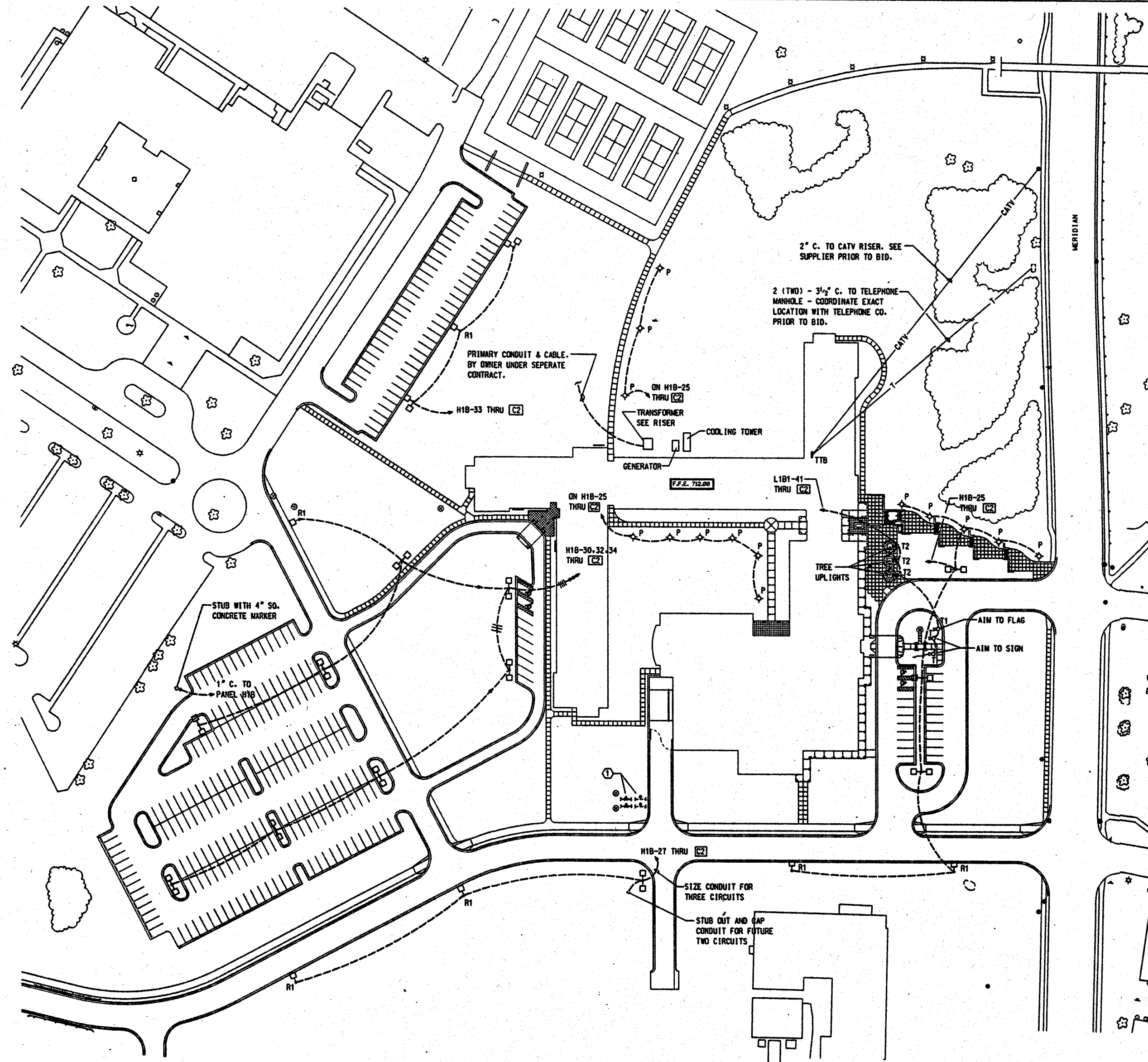
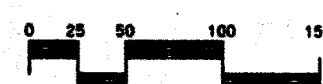


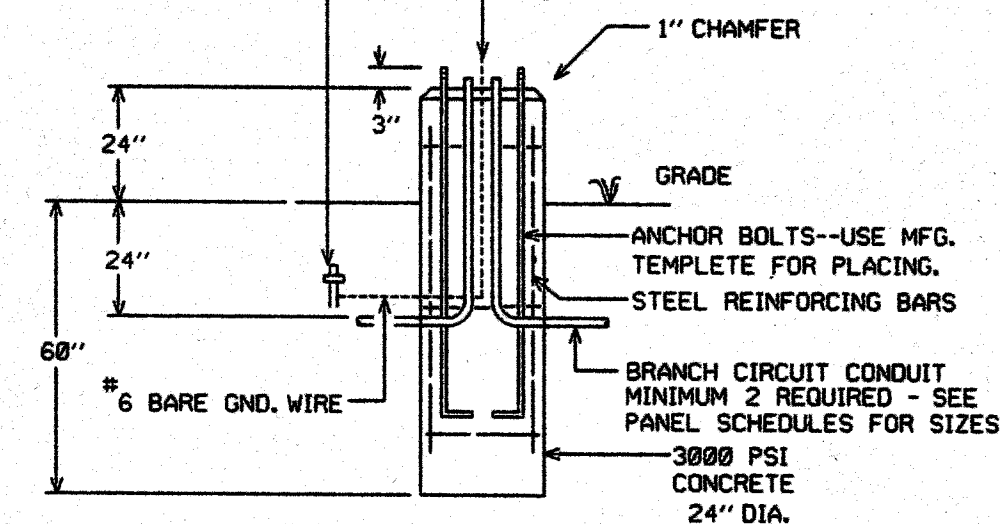


ELECTRICAL SITE PLAN **N**



3/4" X 10' COPPERWELD
GND. ROD. (LIGHTNING
PROTECTION).

ELECTRICAL CONTRACTOR TO
CONNECT OR CADWELD GND.
WIRE TO BASE OF POLE



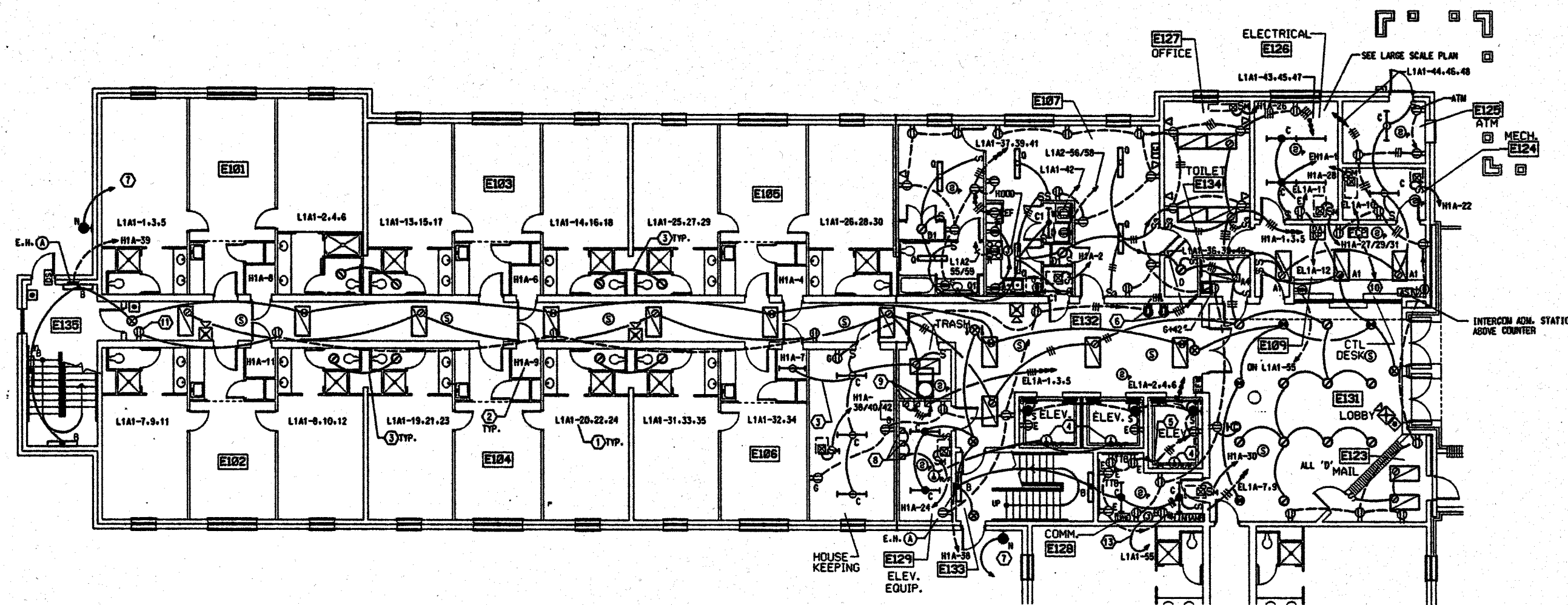
POLE BASE DETAIL "A"

SCALE: NONE

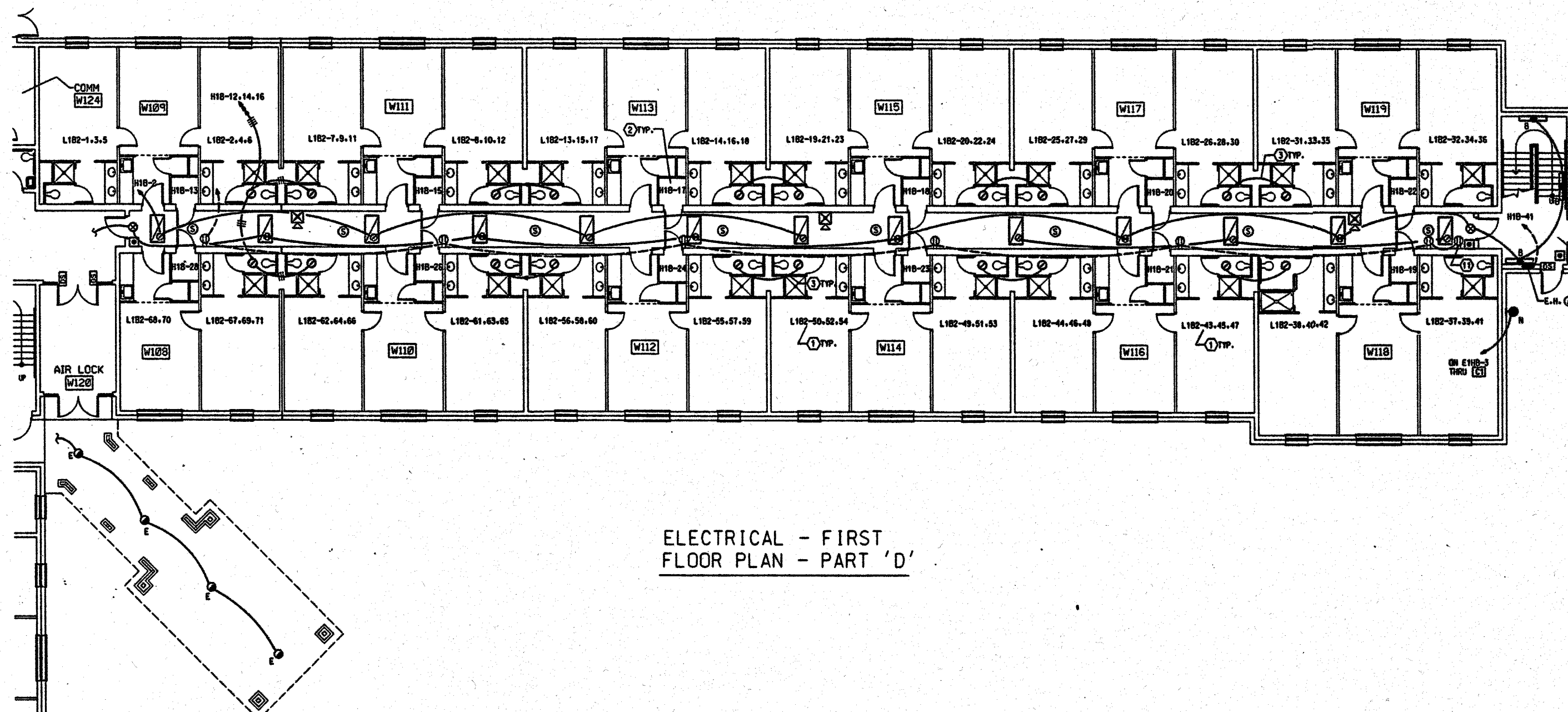
GENERAL NOTES:
A. ALL FIXTURES ARE TYPE R. UON.
SEE POLE BASE DETAIL

PLAN NOTES:

- COORDINATE LOCATIONS OF POST INDICATOR VALVES
AND TAMPER DETECTOR SWITCHES WITH CIVIL DRAWINGS.



ELECTRICAL - FIRST
FLOOR PLAN - PART 'A'



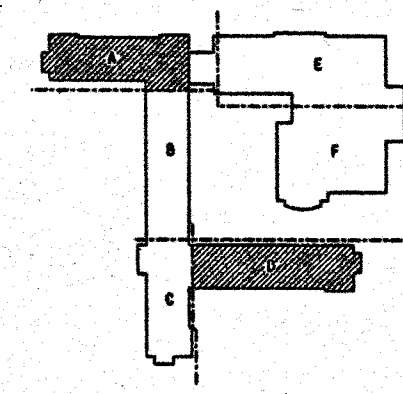
ELECTRICAL - FIRST
FLOOR PLAN - PART 'D'

- PLAN NOTES:
1. HOMERUN CIRCUITS FOR TYPICAL SUITES. SEE LARGE SCALE PLANS.
 2. HOMERUN CIRCUIT FOR HVAC UNIT. USE MAXIMUM (3) CIRCUITS PER HOMERUN CONDUIT. SEE LARGE SCALE PLANS.
 3. LIGHTING CIRCUIT CONTINUATION BETWEEN SUITES. SEE LARGE SCALE PLANS.
 4. IN PIT, ADJACENT TO SPRINKLER HEAD. SEE SPECS.
 5. PROVIDE SUMP PUMP CONNECTION. COORDINATE LOCATION WITH SUPPLIER.
 6. COORDINATE ROUGH-IN WITH SUPPLIER. TO CONCEAL CORD AND PLUG.
 7. ON E1A1-3 THRU 5.
 8. ELEVATOR MACHINE SHUNT TRIP BREAKERS. SEE RISER DIAGRAM AND LOCATE AS PER SUPPLIER.
 9. ELEVATOR CAB EGB'S. 20 AMP, 1 POLE. LOCATE AND CONNECT TO CONTROLLER AS PER SUPPLIER.
 10. CONDUIT WITH SIGNAL WIRE TO TYD FOR SYSTEM REMOTE REPORTING.
 11. CCTV LOCATION - SEE SPECS. INSTALL RECEPTACLE AND VIDEO J-B. FOR MAXIMUM CAMERA HEIGHT. WITH CONDUIT TO CORRIDOR CEILING.
 12. CCTV MONITOR LOCATION.
 13. CCTV CONTROLLER LOCATION. CONNECT TO CAMERA AND MONITOR USING 1/2" CONDUIT.

- GENERAL NOTES:
- A. ALL FIXTURES ARE TYPE A. UOL.
 - B. SEE LARGE SCALE PLANS FOR SUITE ELECTRICAL LAYOUTS.
 - C. CORRIDORS AND FURRED AREAS OF OTHER SPACES HAVE MANY PIPES, CONDUITS, ETC. COORDINATION IS REQUIRED BETWEEN ALL TRADES PRIOR TO ANY ROUGH-INS.
 - D. ONE-BEDROOM SUITES HAVE SAME LAYOUT AS LARGE SCALE PLANS. WITH (15) - 120 V. CTS. INSTEAD OF (16).

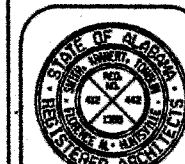
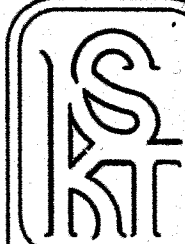
ELECTRICAL - FIRST
FLOOR PLANS - PARTS 'A' & 'D'

0' 4' 8' 16'



KEY PLAN

NO



WEST CAMPUS LIVING/LEARNING COMPLEX
ALABAMA A&M UNIVERSITY

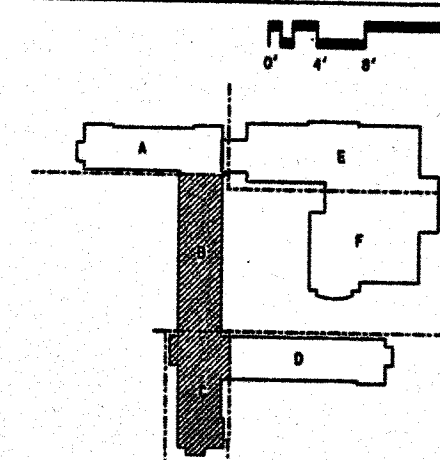
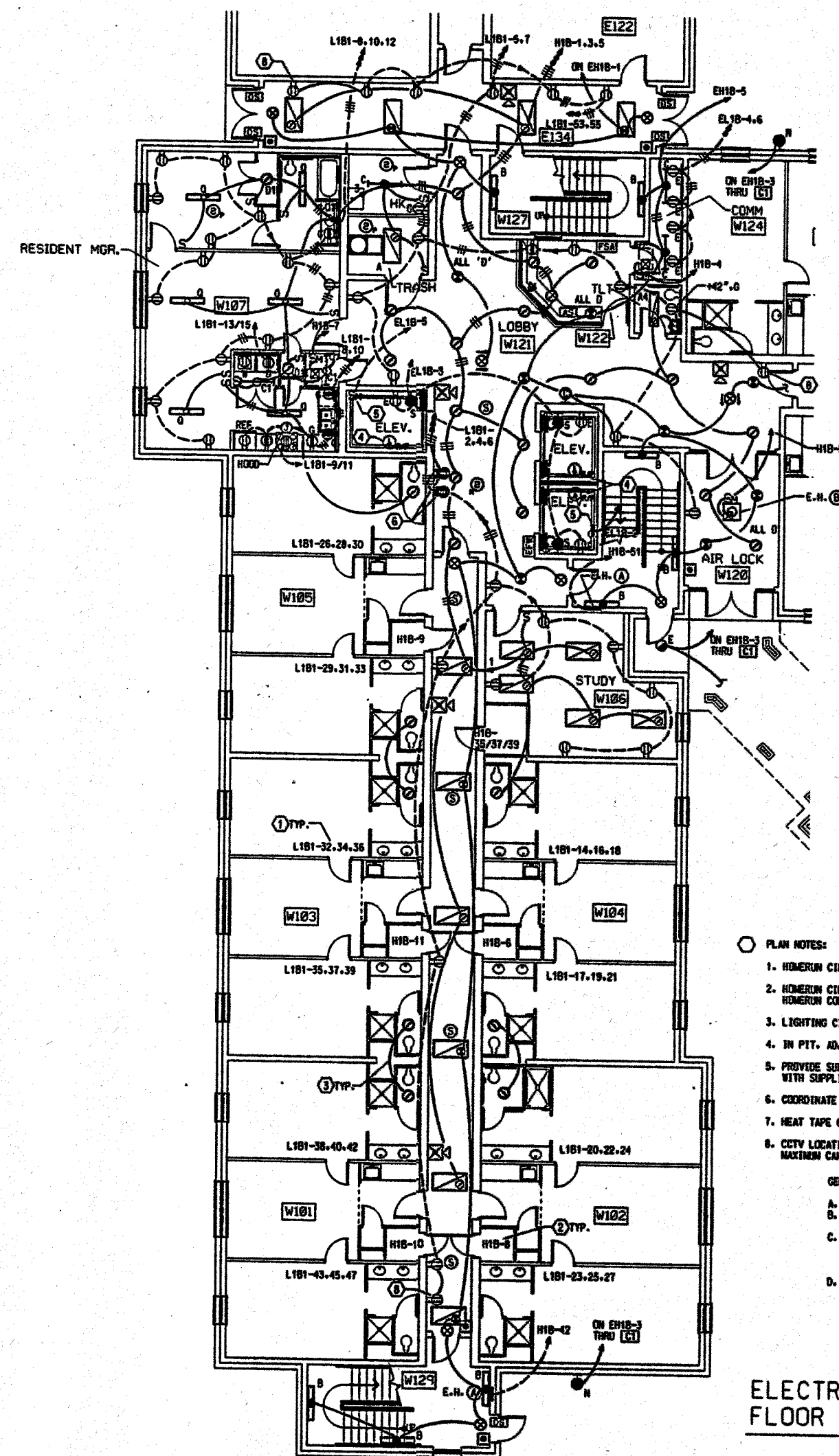
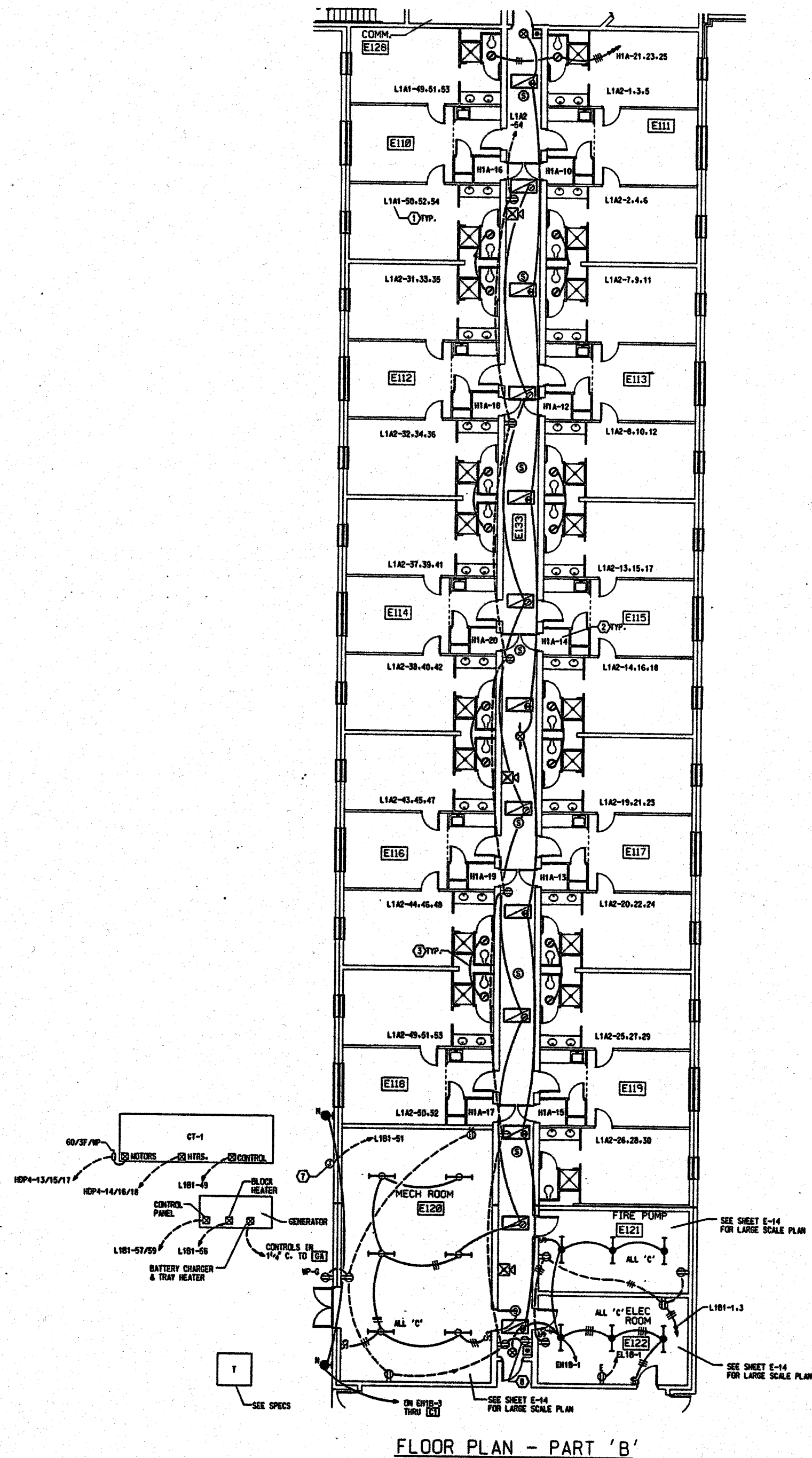
SMITH, KRANERT, TOMBLIN
& ASSOCIATES, P.C.
ARCHITECTS, P.C.
ALABAMA
FLORENCE

JOB NUMBER
94024

DATE / NO. / 2000
DRAWN BY: [Name]
CHECKED BY: [Name]
REVISIONS:

SHEET TITLE
ELECTRICAL
FIRST FLOOR
PLAN PARTS
'A' & 'D'

SHEET NUMBER
E-2
OF
18



KEY PLAN



ELECTRICAL - FIRST
FLOOR PLANS - PART 'B' & 'C'

 PLAN NOTES:

1. HOBOMON CIRCUITS FOR TYPICAL SUITES. SEE LARGE SCALE PLANS.
2. HOBOMON CIRCUIT FOR HVAC UNIT. USE MAXIMUM (3) CIRCUITS PER HOBOMON CONDUIT. SEE LARGE SCALE PLANS.
3. LIGHTING CIRCUIT CONTINUATION BETWEEN SUITES. SEE LARGE SCALE PLANS.
4. IN PIT. ADJACENT TO SPRINKLER HEAD. SEE SPECS.
5. PROVIDE SUMP PUMP CONNECTION. COORDINATE LOCATION WITH SUPPLIER.
6. COORDINATE ROUGH-IN WITH SUPPLIER. TO CONCEAL CORD AND PLUGS.
7. HEAT TAPE CONNECTIONS - USE WP BOX AND COORDINATE W/ SUPPLIER.
8. CCTV LOCATION - SEE SPECS. INSTALL RECEIPTABLE AND VIDEO J.B. FOR MAXIMUM CAMERA HEIGHT. WITH CONDUIT TO CORRIDOR CEILING.

GENERAL NOTES:

- A. ALL FIXTURES ARE TYPE A. UON.
- B. SEE LARGE SCALE PLANS FOR SUITE ELECTRICAL LAYOUTS.
- C. CORRIDORS AND FLURRED AREAS OF OTHER SPACES HAVE MANY PIPES, CONDUITS, ECT. COORDINATION IS REQUIRED BETWEEN ALL TRADES PRIOR TO ANY RUGH-INS.
- D. ONE-BEDROOM SUITES HAVE SAME LAYOUT AS LARGE SCALE PLANS, WITH (5) - 120 V. CRTS. INSTEAD OF (6).

WEST CAMPUS LIVING/LEARNING COMPLEX
ALABAMA A&M UNIVERSITY

UPUS LIVING/LEARNING COMPS
W ABAMA A&M UNIVERSITY

SMITHKLINEBEECHAM

ASSOCIATES
A. I. A.
ARCHITECTS, P.C.

LUNENCE	ALABAMA	HUNTSVILLE
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JOB NUMBER
94004

94004

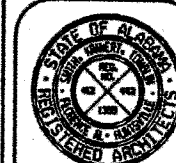
SHEET TITLE
ELECTRICAL
FIRST FLOOR
PLAN PARTS
'B' & 'C'

SHEET NUMBER

F-3

OF

18



WEST CAMPUS LIVING/LEARNING COMPLEX
ALABAMA A&M UNIVERSITY

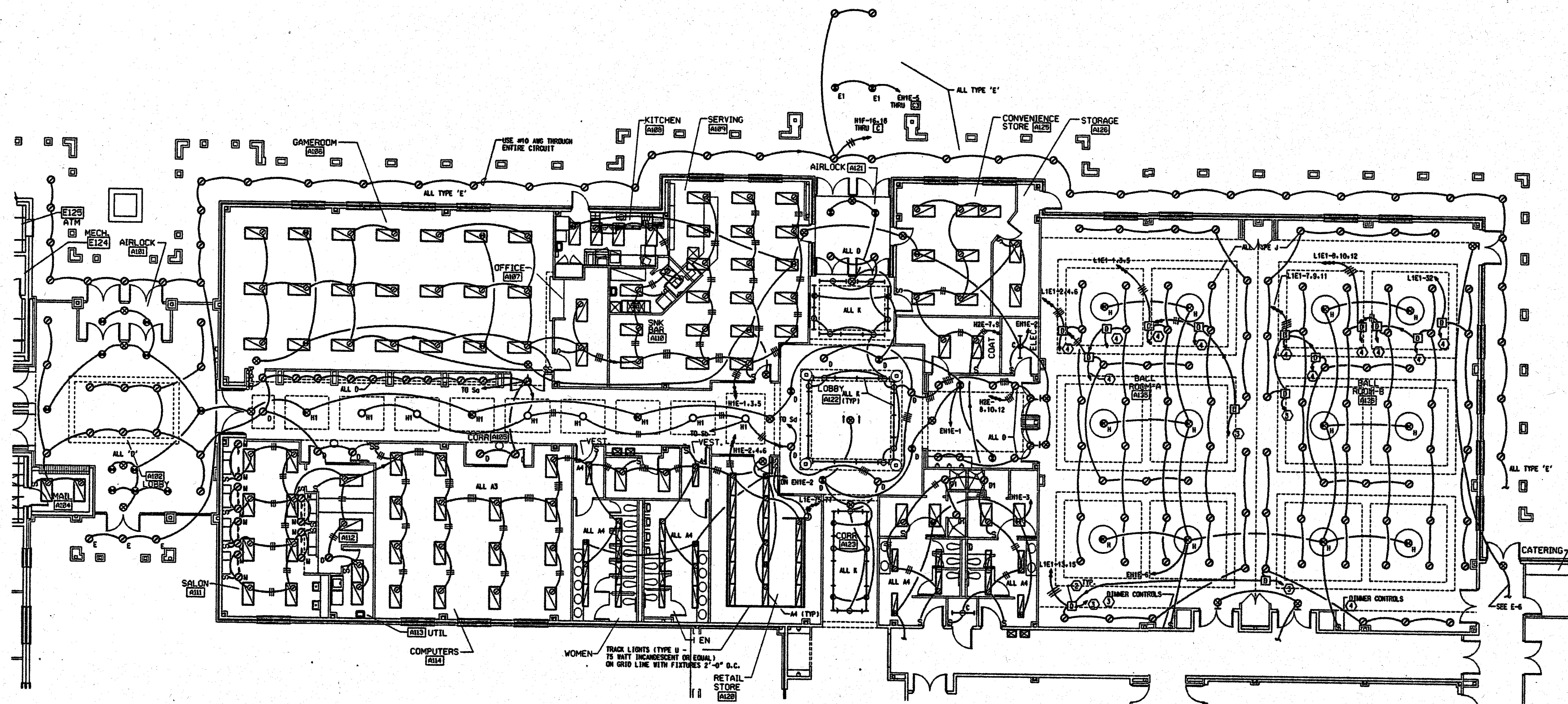
SMITH, KRANERT, TOMBLIN
& ASSOCIATES
P.C.
ARCHITECTS, P.C.
HUNTSVILLE
ALABAMA

JOB NUMBER
94004

DATE / REV / BY / DATE
DRAWN BY: [blank]
CHECKED BY: [blank]
REVIEWED BY: [blank]

SHEET TITLE
LIGHTING FIRST FLOOR
PLAN PART 'E'

SHEET NUMBER
E-4
OF
18

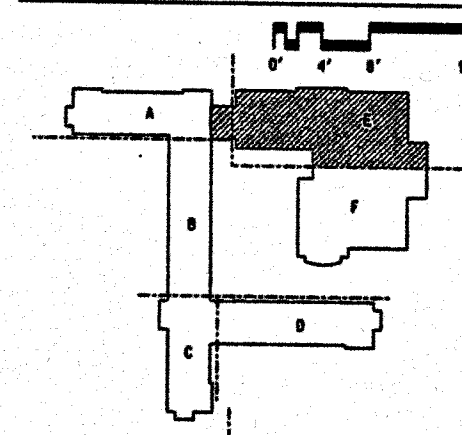


GENERAL NOTES:
A. ALL FIXTURES ARE TYPE A, UNLESS NOTED OTHERWISE.
B. SEE LARGE SCALE PLANS FOR SUITE ELECTRICAL LAYOUTS.

PLAN NOTES:

1. SWITCH THERMOSTAT LAMPS SEPARATE FROM OUTBOARD.
2. LITHONIA RM2000-120 DIMMER MODULE.
3. TO LITHONIA MEDLEY CONTROL #1.
4. TO LITHONIA MEDLEY CONTROL #2.

LIGHTING - FIRST
FLOOR PLAN - PART 'E'



KEY PLAN





WEST CAMPUS LIVING/LEARNING COMPLEX
ALABAMA A&M UNIVERSITY

SMITH, KRANER, TOMBLIN
& ASSOCIATES
ARCHITECTS, P.C.
FLORENCE, ALABAMA

JOB NUMBER

94004

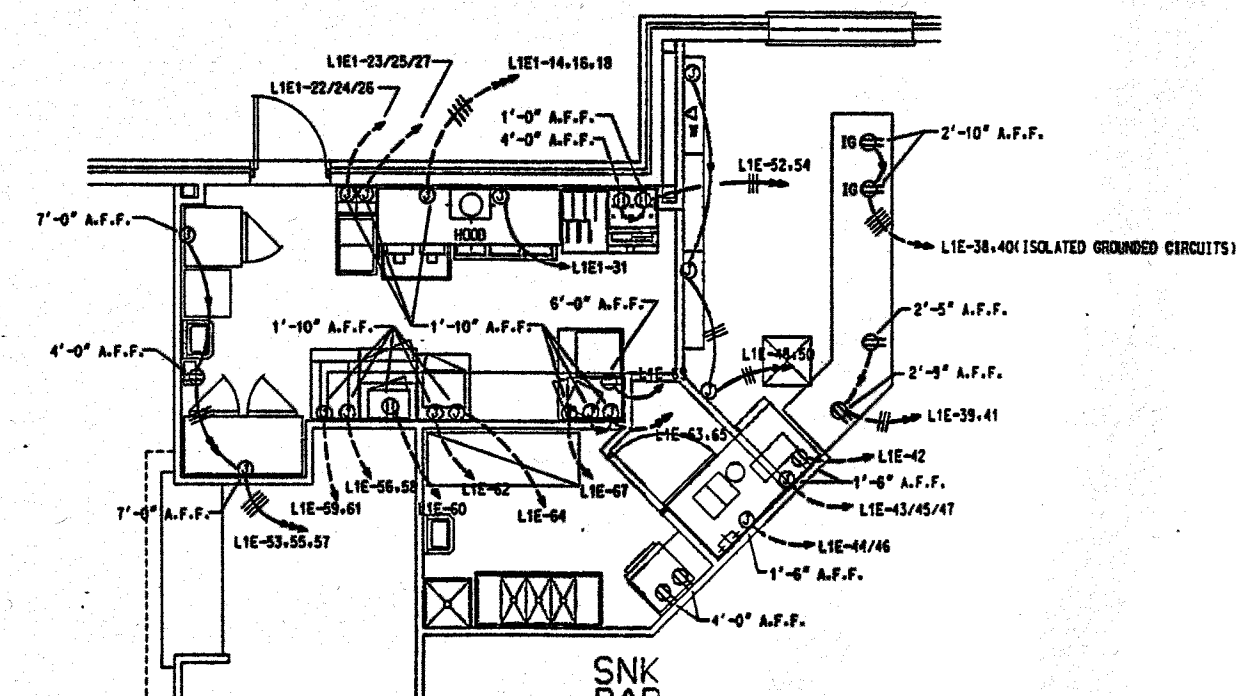
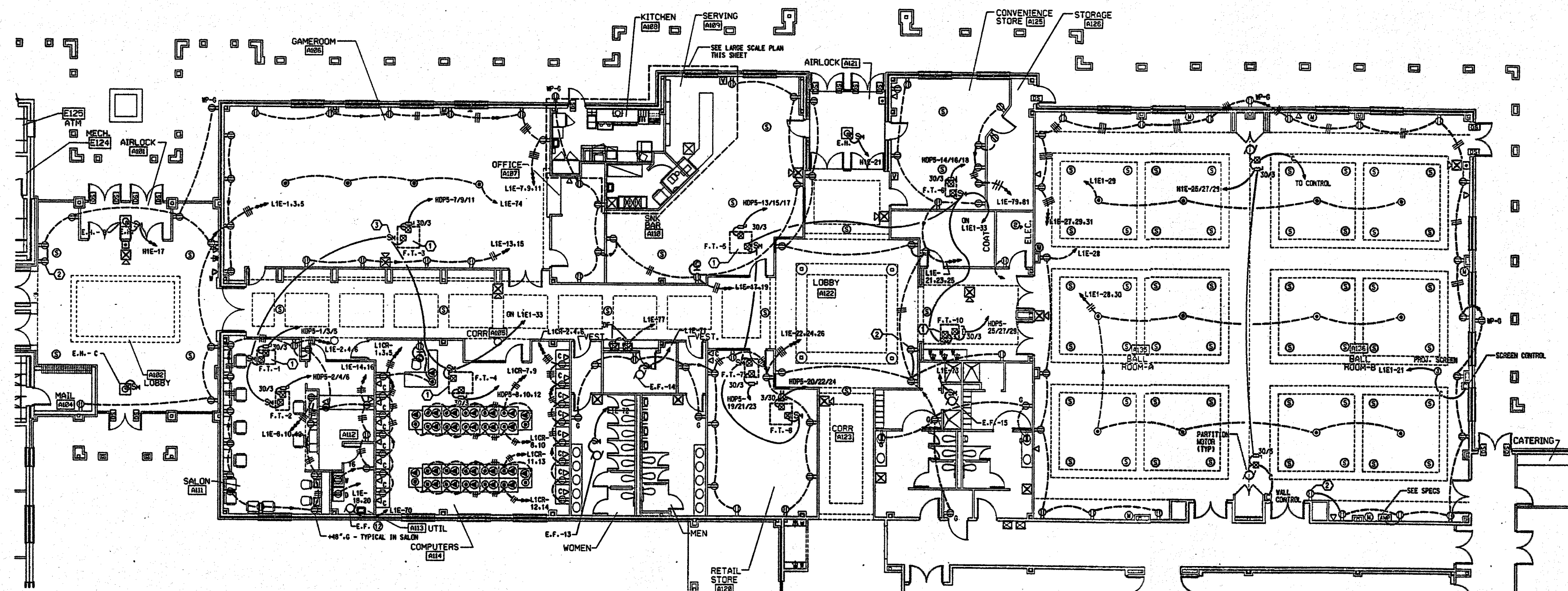
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DRAWN BY: CECILY BY: DATE

SHEET TITLE

POWER/SYSTEMS
FIRST FLOOR
PLAN PART 'E'

SHEET NUMBER

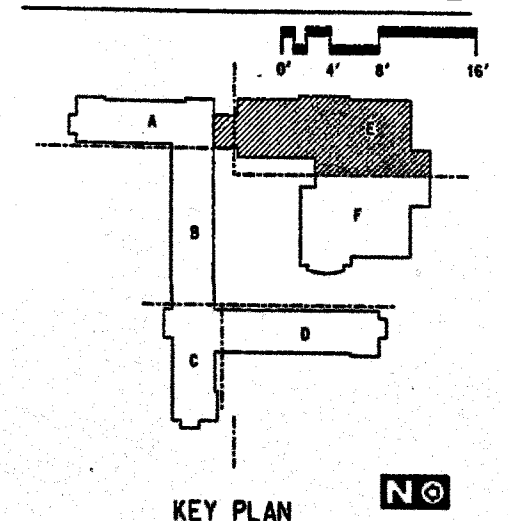
E-5
OF
18



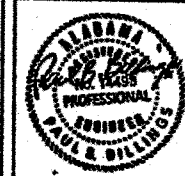
LARGE SCALE KITCHEN PLAN

- PLAN NOTES:
1. PROVIDE DUCT SMOKE DETECTORS IN SUPPLY AND RETURN. COORDINATE WITH HVAC SUB-CONTRACTOR.
 2. CCTV LOCATION - SEE SPECS. INSTALL RECEPTACLE AND VIDEO J.B. FOR MAXIMUM CAMERA HEIGHT. WITH CONDUIT TO CORRIDOR CEILING.
 3. 120V. CONTROL CONNECTION. ALL ON L1E1-33. TYPICAL FOR ALL F.T.'S.

POWER/SYSTEMS - FIRST FLOOR PLAN - PART 'E'



KEY PLAN



WEST CAMPUS LIVING/LEARNING COMPLEX
ALABAMA A&M UNIVERSITY

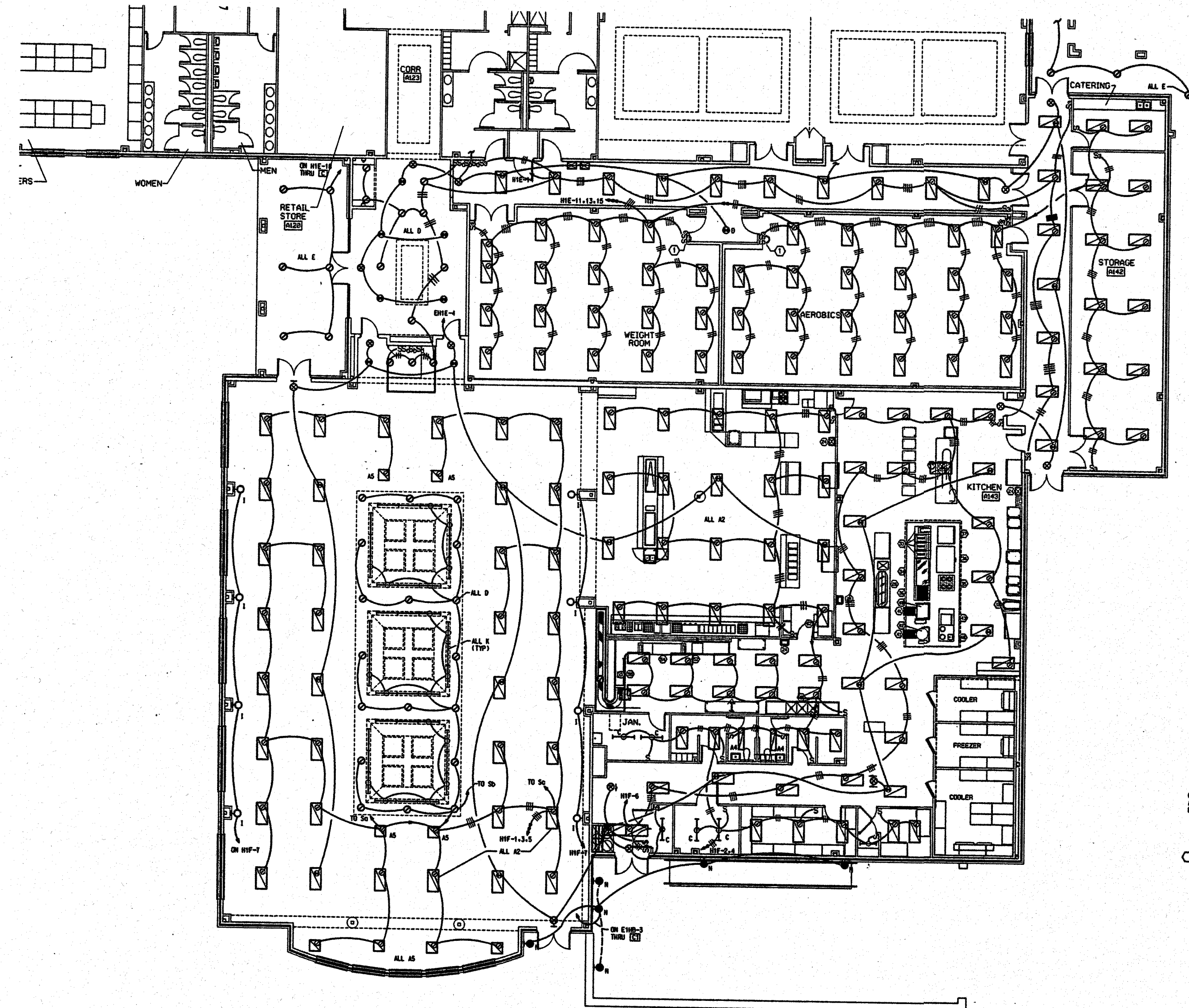
SMITH, KRANER, TOMBLIN
& ASSOCIATES
FLORENCE, ALABAMA
ARCHITECTS, P.C.
HUNTSVILLE

JOB NUMBER
94004

DATE	BY	CHKD	APP'D

SHEET TITLE
LIGHTING
FIRST FLOOR
PLAN PART 'F'

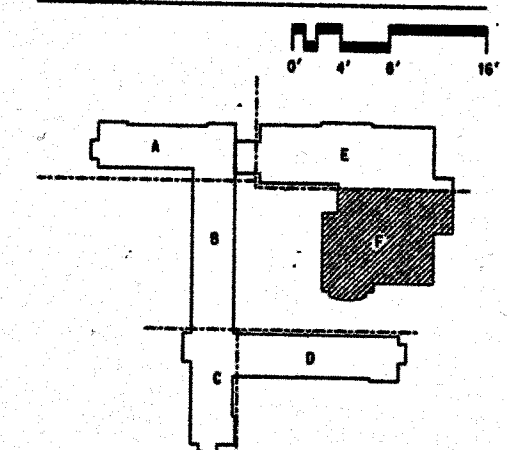
SHEET NUMBER
E-6
OF
18



GENERAL NOTES:
A. ALL FIXTURES ARE TYPE A, DEN.
B. SEE LARGE SCALE PLANS FOR SUITE ELECTRICAL LAYOUTS.

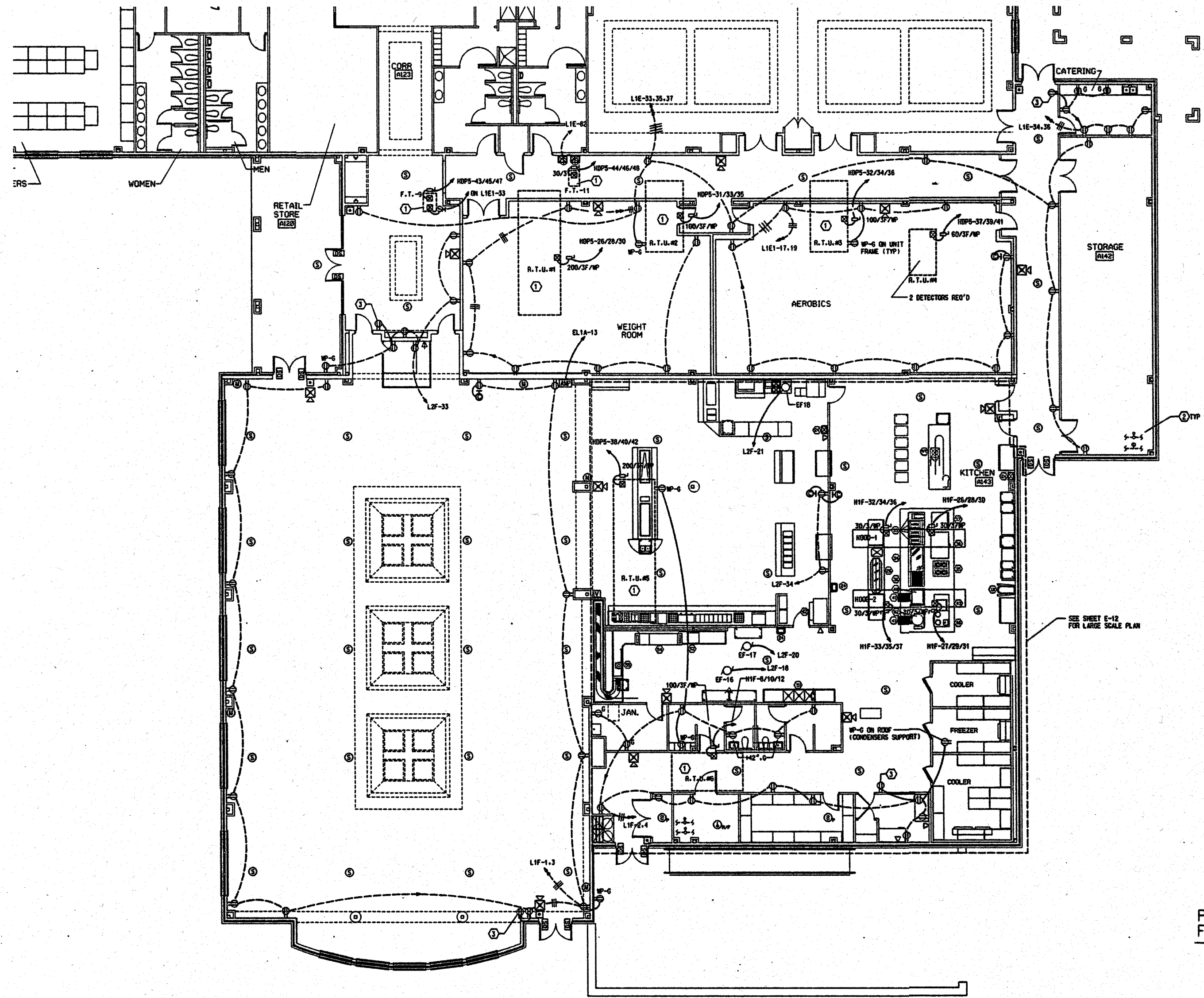
PLAN NOTES:
1. SWITCH INBOARD LAMPS SEPARATE FROM OUTBOARD.

LIGHTING - FIRST FLOOR PLAN - PART 'F'

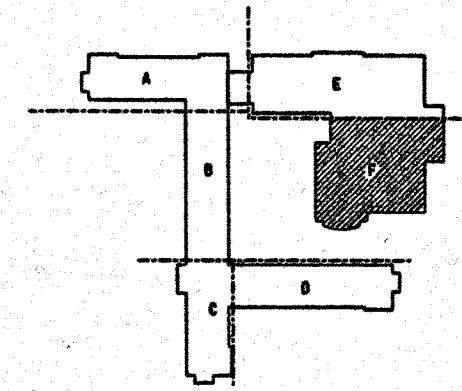
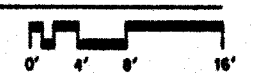


KEY PLAN





POWER/SYSTEMS - FIRST FLOOR PLAN - PART 'F'



KEY PLAN

- PLAN NOTES:
1. PROVIDE DUCT SMOKE DETECTORS IN SUPPLY AND RETURN. COORDINATE WITH HVAC SUB-CONTRACTOR.
 2. COORDINATE FLOW AND TAPER LOCATIONS. USE ZONE ADAPTER MODULES AS REQ'D.
 3. CCTV LOCATION - SEE SPECS. INSTALL RECEPTACLE AND VIDEO J.B. FOR MAXIMUM CAMERA HEIGHT. WITH CONDUIT TO CORRIDOR CEILING.

WEST CAMPUS LIVING/LEARNING COMPLEX
ALABAMA A&M UNIVERSITY

SMITH, KRANER, TOMBLIN & ASSOCIATES, P.C.
ARCHITECTS, P.C.
FLORENCE, ALABAMA

JOB NUMBER

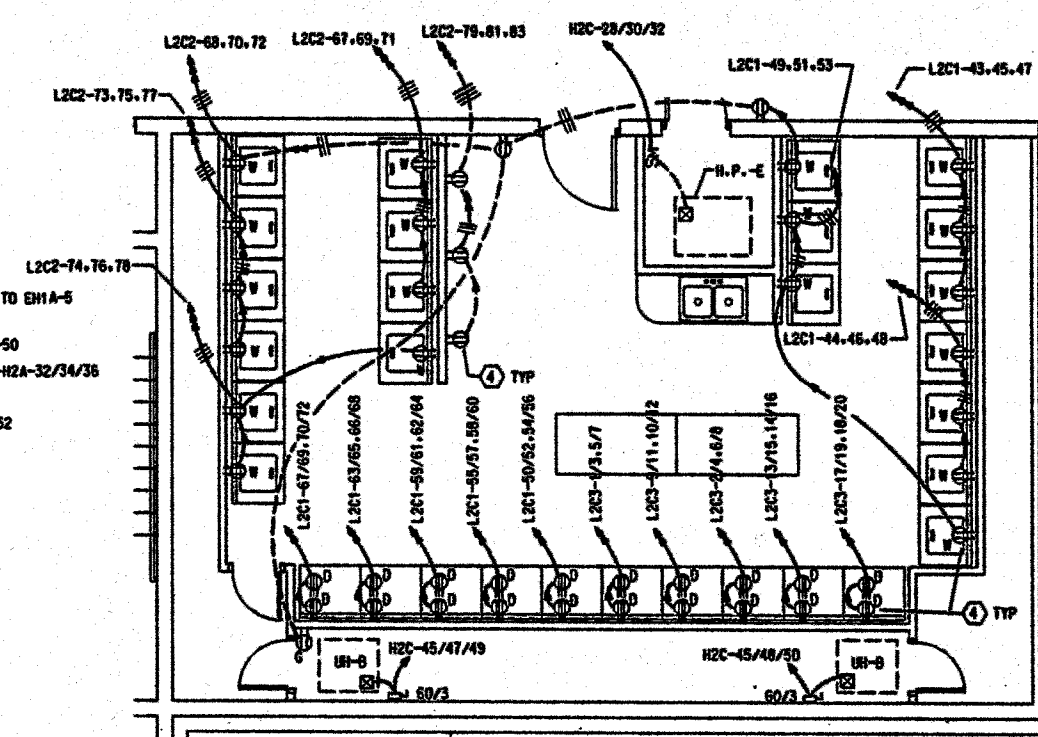
94004

SHEET TITLE

POWER/SYSTEMS
FIRST FLOOR
PLAN PART 'F'

SHEET NUMBER

E-7
OF
18



- GENERAL NOTES:**

- A. ALL FIXTURES ARE TYPE A. UON.
- B. SEE LARGE SCALE PLANS FOR SUITE ELECTRICAL LAYOUTS.
- C. CORRIDORS AND FURRED AREAS OF OTHER SPACES HAVE MANY PIPES, CONDUITS, ECT. COORDINATION IS REQUIRED BETWEEN ALL TRADES PRIOR TO ANY ROUGH-INS.
- D. ONE-BEDROOM SUITES HAVE SAME LAYOUT AS LARGE SCALE PLANS, WITH (5) - 120 V. CRTS. INSTEAD OF (6).

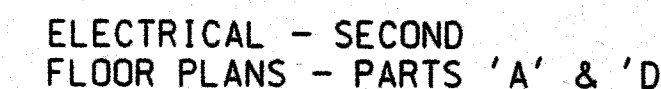
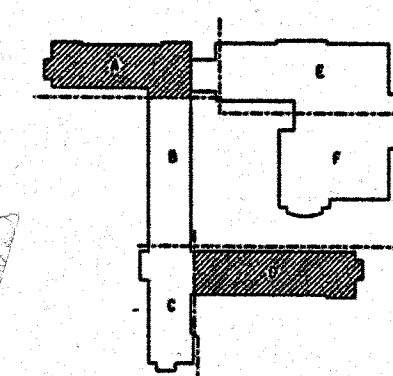
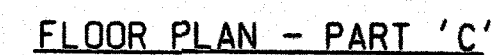
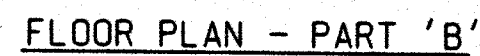


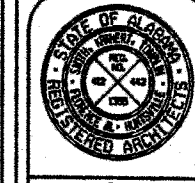
Figure 1 shows a block diagram of a three-stage system. The input signal is a square wave with a period of 1 unit. The first stage is a delay block labeled $\frac{1}{2}$. The second stage is a delay block labeled $\frac{1}{4}$. The third stage is a delay block labeled $\frac{1}{4}$. The output of the third stage is a square wave with a period of 1 unit, which is the same as the input signal.



NG



NO



WEST CAMPUS LIVING/LEARNING COMPLEX
ALABAMA A&M UNIVERSITY

ALABAMA A&M UNIVERSITY
SMITH, KRANERT, TOMBLIN
& ASSOCIATES
A. I. A.
FLORENCE ALABAMA HUNTSVILLE

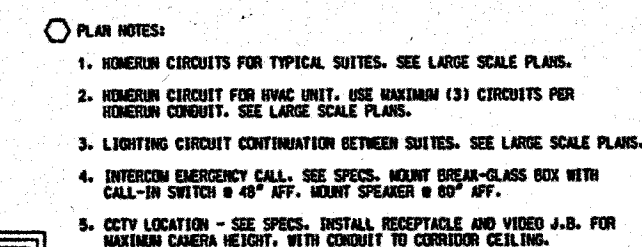
JOB NUMBER
94004

JACR / FEB / 8-21-88
 CROWN BY-CHECKED BY-DATE

SHEET TITLE
ELECTRICAL
SECOND FLOOR
PLAN
PART 'B' & 'C'

SHEET NUMBER

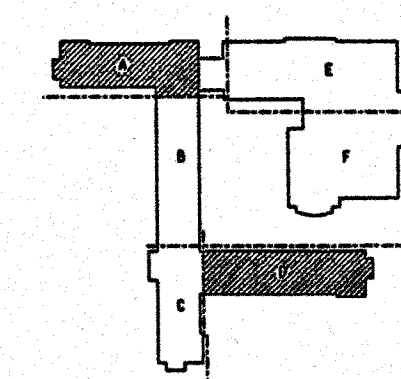
E-9
OF
18



GENERAL NOTES

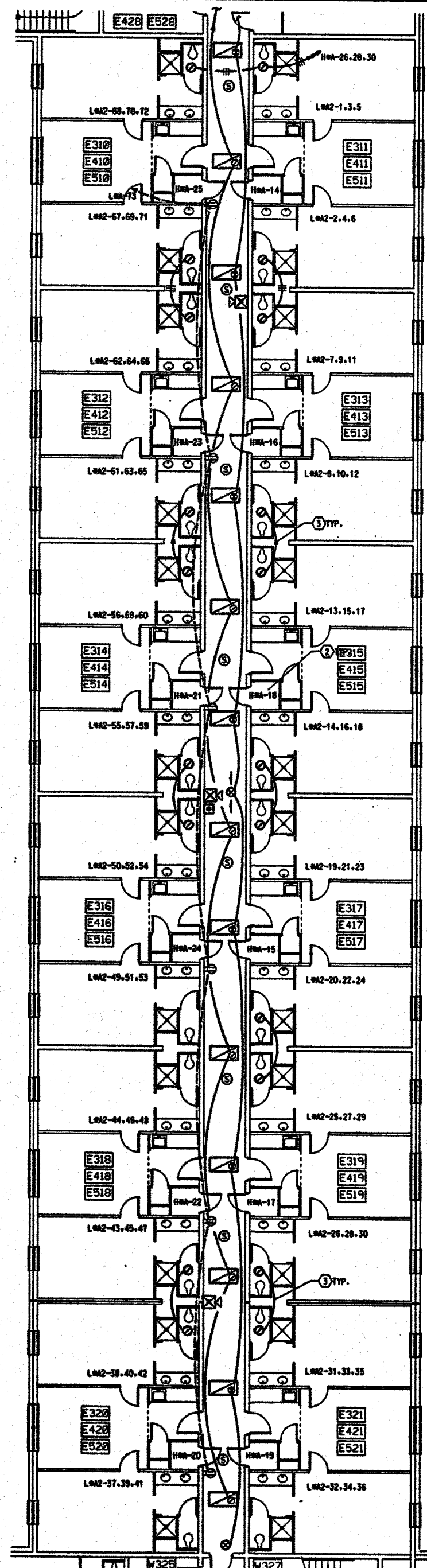
- A. ALL FIXTURES ARE TYPE A. UON.
- B. SEE LARGE SCALE PLANS FOR SUITE ELECTRICAL LAYOUTS.
- C. CORRIDORS AND FURRED AREAS OF OTHER SPACES HAVE MANY PIPES, CONDUITS, ECT. COORDINATION IS REQUIRED BETWEEN ALL TRADES PRIOR TO ANY WORK-ING.
- D. ALL BEDROOM SUITES HAVE SAME LAYOUT AS LARGE SCALE PLANS, WITH (5) - 120 V. CKTS. INSTEAD OF 161.
- E. SUBSTITUTE FLOOR NUMBER FOR * TO ASSIGN PANEL NAMES.

ELECTRICAL
THIRD, FOURTH & FIFTH
FLOOR PLANS - PARTS 'A' & 'D'
(TYPICAL FOR FOURTH AND FIFTH FLOORS)

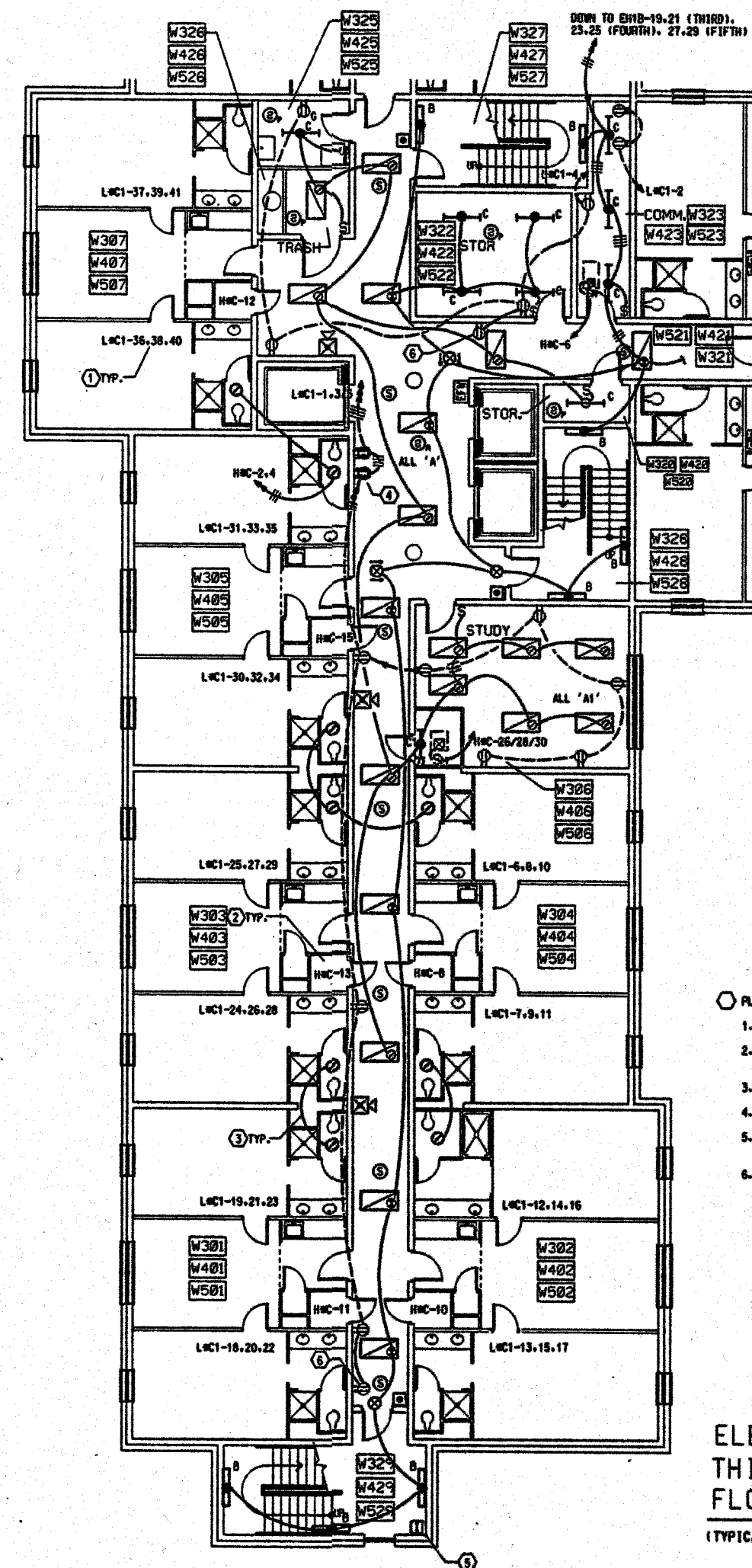


KEY PLAN





FLOOR PLAN - PART 'B'



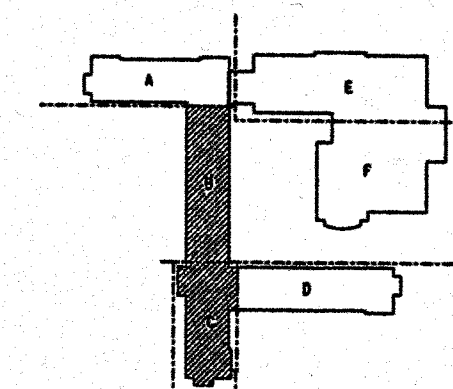
FLOOR PLAN - PART 'C'

- PLAN NOTES:
1. HORNERN CIRCUITS FOR TYPICAL SUITES. SEE LARGE SCALE PLANS.
 2. HORNERN CIRCUIT FOR HVAC UNIT. USE MAXIMUM (3) CIRCUITS PER HORNERN CONDUIT. SEE LARGE SCALE PLANS.
 3. LIGHTING CIRCUIT CONTINUATION BETWEEN SUITES. SEE LARGE SCALE PLANS.
 4. COORDINATE ROUGH-IN WITH SUPPLIER. TO CONCEAL CORD AND PLOG.
 5. INTERCOM EMERGENCY CALL. SEE SPECS. MOUNT BEAR-GLASS BOX WITH CALL-IN SWITCH @ 48" AFF. MOUNT SPEAKER @ 60" AFF.
 6. CCTV CAMERA. SEE SPECS. INSTALL RECEPTACLE AND VIDEO J.B. FOR MAXIMUM LOCATION HEIGHT. WITH CONDUIT TO CORRIDOR CEILING.

GENERAL NOTES:

- A. ALL FIXTURES ARE TYPE A. UOM.
- B. SEE LARGE SCALE PLANS FOR SUITE ELECTRICAL LAYOUTS.
- C. ALL VENTILATORS AND PURRED AREAS OF OTHER SPACES HAVE WAVE PIPE CONDUITS, ECT. COORDINATION IS REQUIRED BETWEEN ALL TRADES PRIOR TO ANY ROUGH-INS.
- D. ONE-BEDROOM SUITES HAVE SAME LAYOUT AS LARGE SCALE PLANS. WITH (5) - 120 V. CKTS. INSTEAD OF (6).
- E. SUBSTITUTE FLOOR NUMBER FOR * TO ASSIGN PANEL NAMES.

ELECTRICAL
THIRD, FOURTH & FIFTH
FLOOR PLANS - PART 'B' & 'C'



KEY PLAN



WEST CAMPUS LIVING/LEARNING COMPLEX
ALABAMA A&M UNIVERSITY

SMITH, KRANERT, TOMBLIN
ASSOCIATES A.I.A. ARCHITECTS, P.C.
LORENCE ALABAMA HUNTSVILLE

JOB NUMBER
94004

JAN / FEB / MAR - APR
ORIGIN BY-CHECKED BY-GATE

REMOVED _____

SHEET TITLE
ELECTRICAL
THIRD, FOURTH
& FIFTH FLOOR
PLANS PARTS
'B' & 'C'

SHEET NUMBER

E-11
OF
18

3275 / FBI / 8-25-
CHINA BY AIR MAIL BY AIR

REVENUE _____

Abstract

— 100 —

SHEET TITLE

ELECTRICAL

ATTIC PLAN

... ..

100

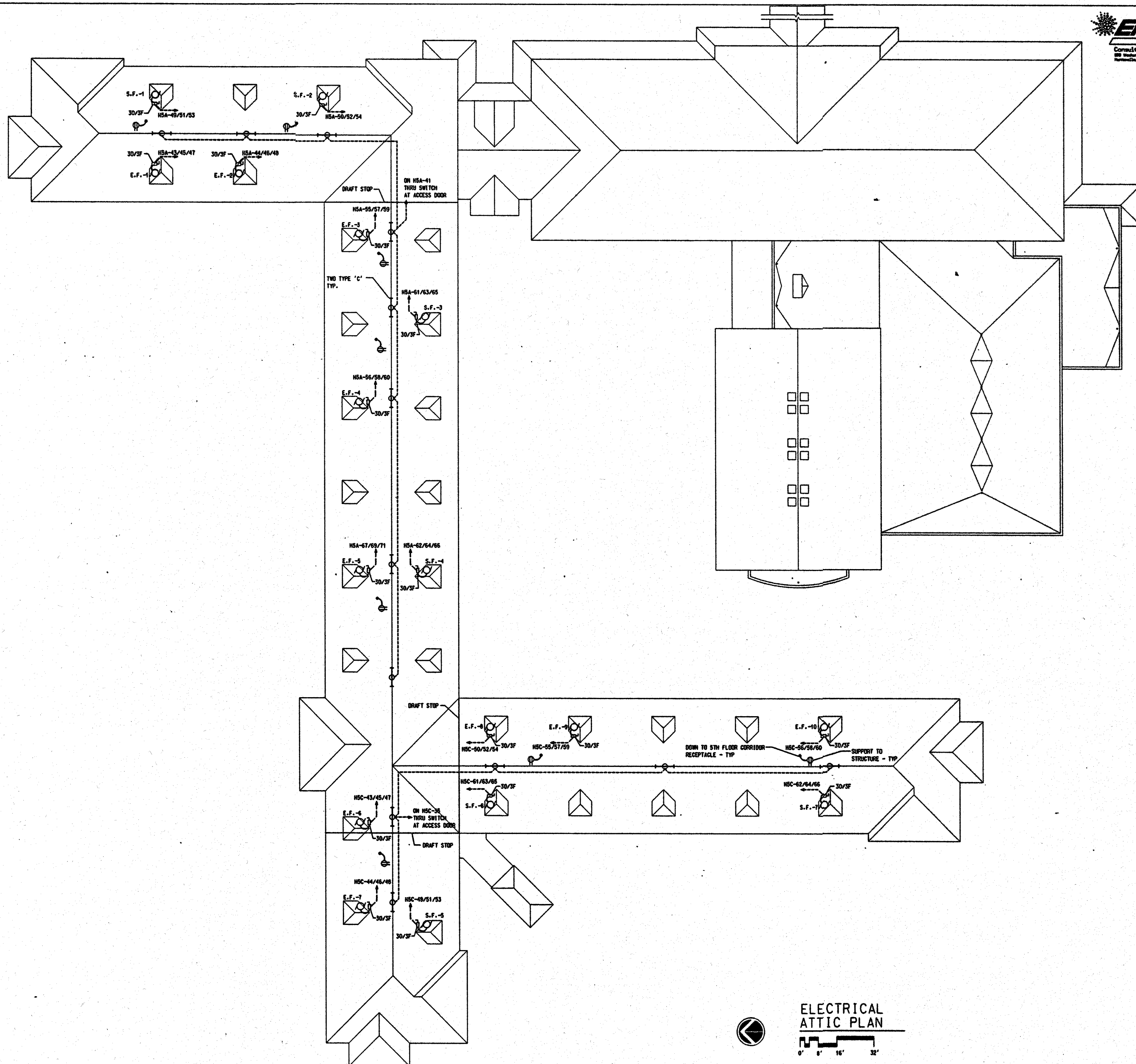
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1

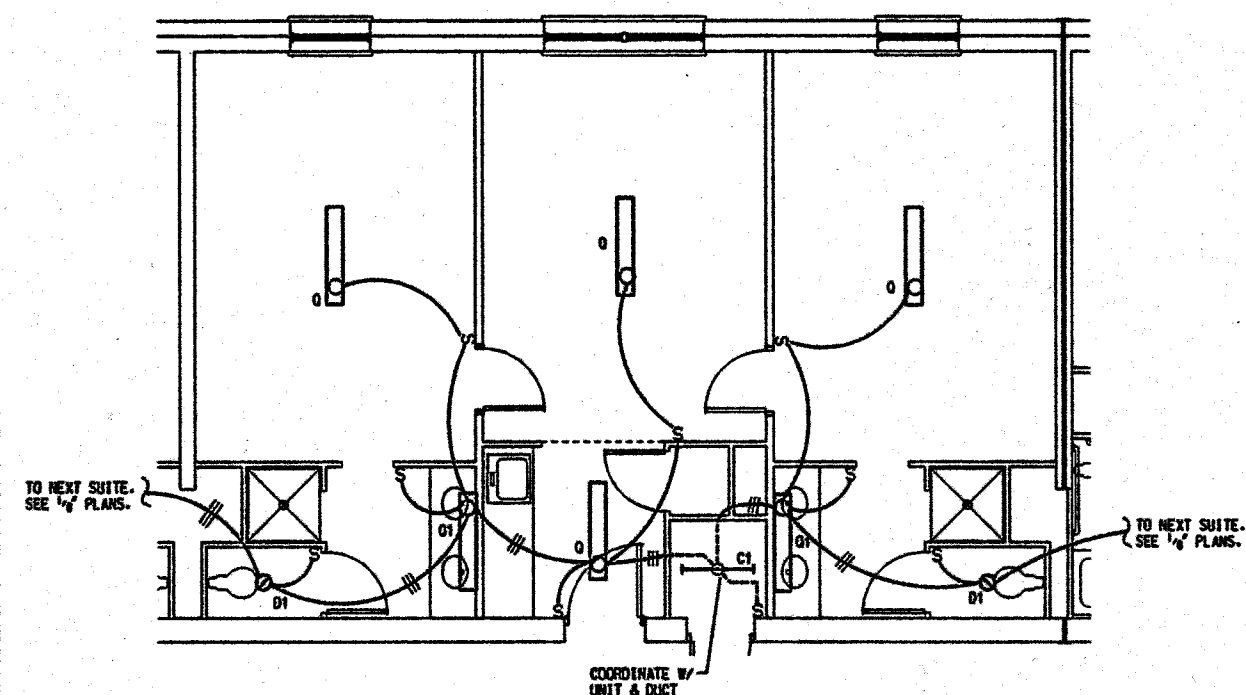
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OF

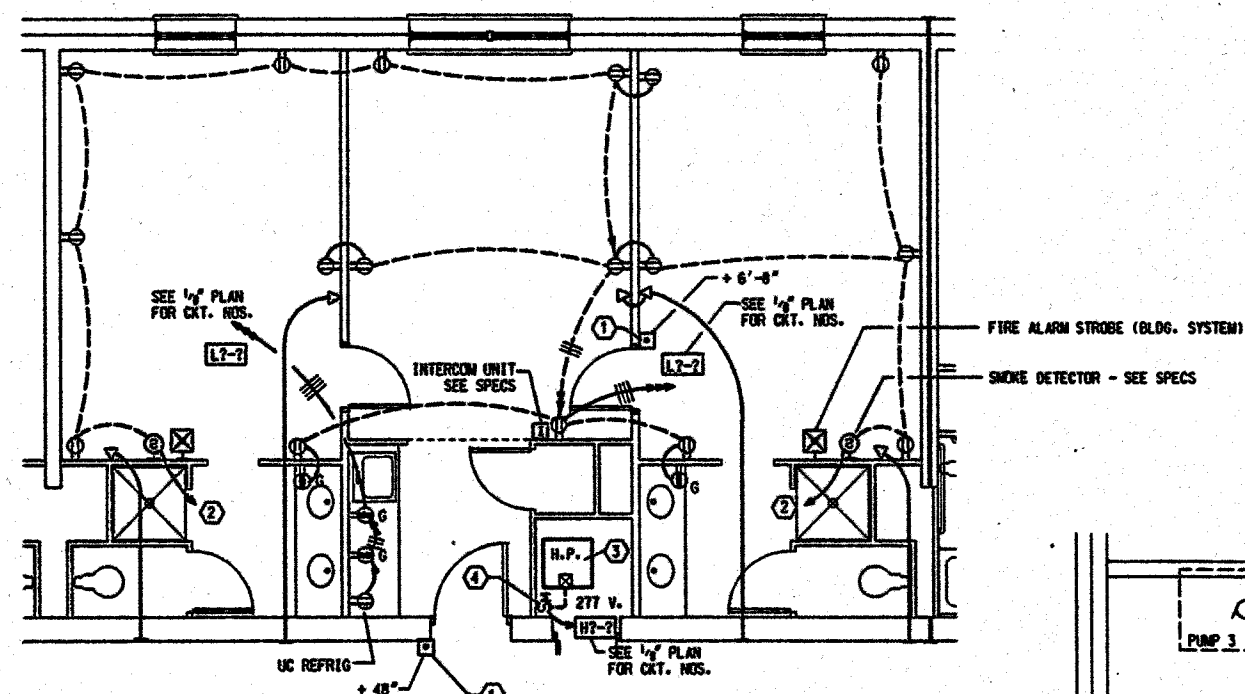
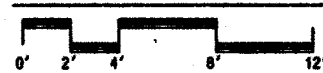
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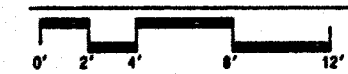




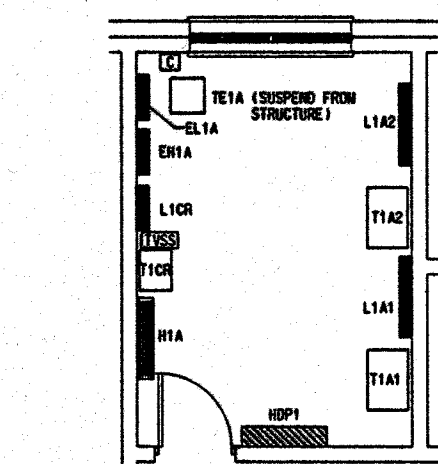
TYPICAL SUITE LIGHTING PLAN



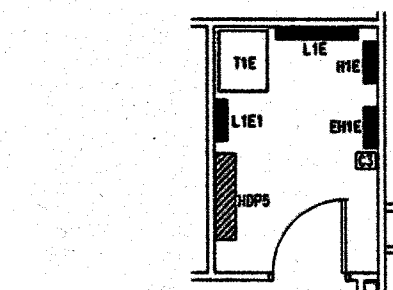
TYPICAL SUITE POWER/SYSTEMS PLAN



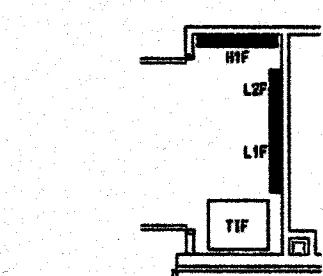
- PLAN NOTES:
1. HEARING IMPAIRED PUSHBUTTON AND FLASHER IN UNITS E101, E305, E301, E202, E418, E415, E103, E315 AND E514. LOCATE FLASHER IN ACCESSIBLE BEDROOM.
 2. TO SECOND DETECTOR IN SUITE. EACH ONE SHALL ALARM BOTH.
 3. PROVIDE DUCT SMOKE DETECTOR FOR ALL UNITS SERVING CORRIDORS. SEE HVAC DRAWINGS.
 4. DISCONNECT IS FURNISHED WITH HEAT PUMP UNIT. MOUNT ON WALL 54" AFF. WITH FLEX TO UNIT. TYPICAL FOR ALL HP UNITS.



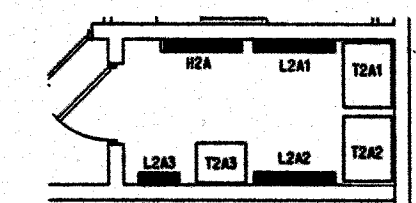
ELEC. - E126
FIRST FLOOR PART 'A'



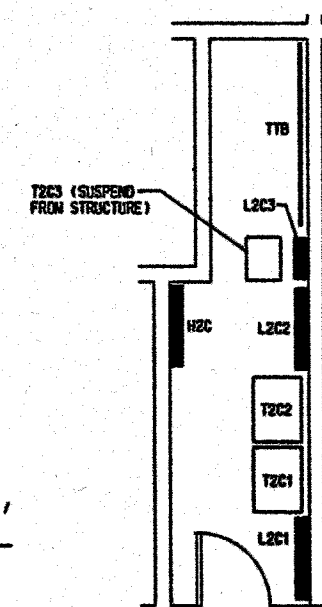
ELEC. - A128
FIRST FLOOR PART 'E'



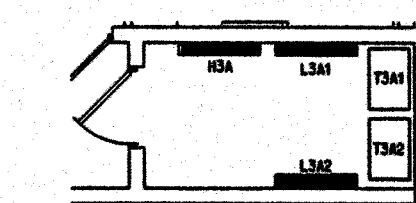
FIRST FLOOR PART 'F'



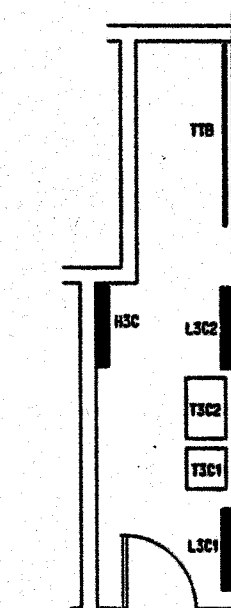
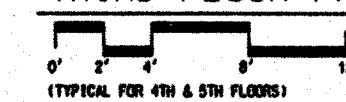
ELEC. - E236
SECOND FLOOR PART 'A'



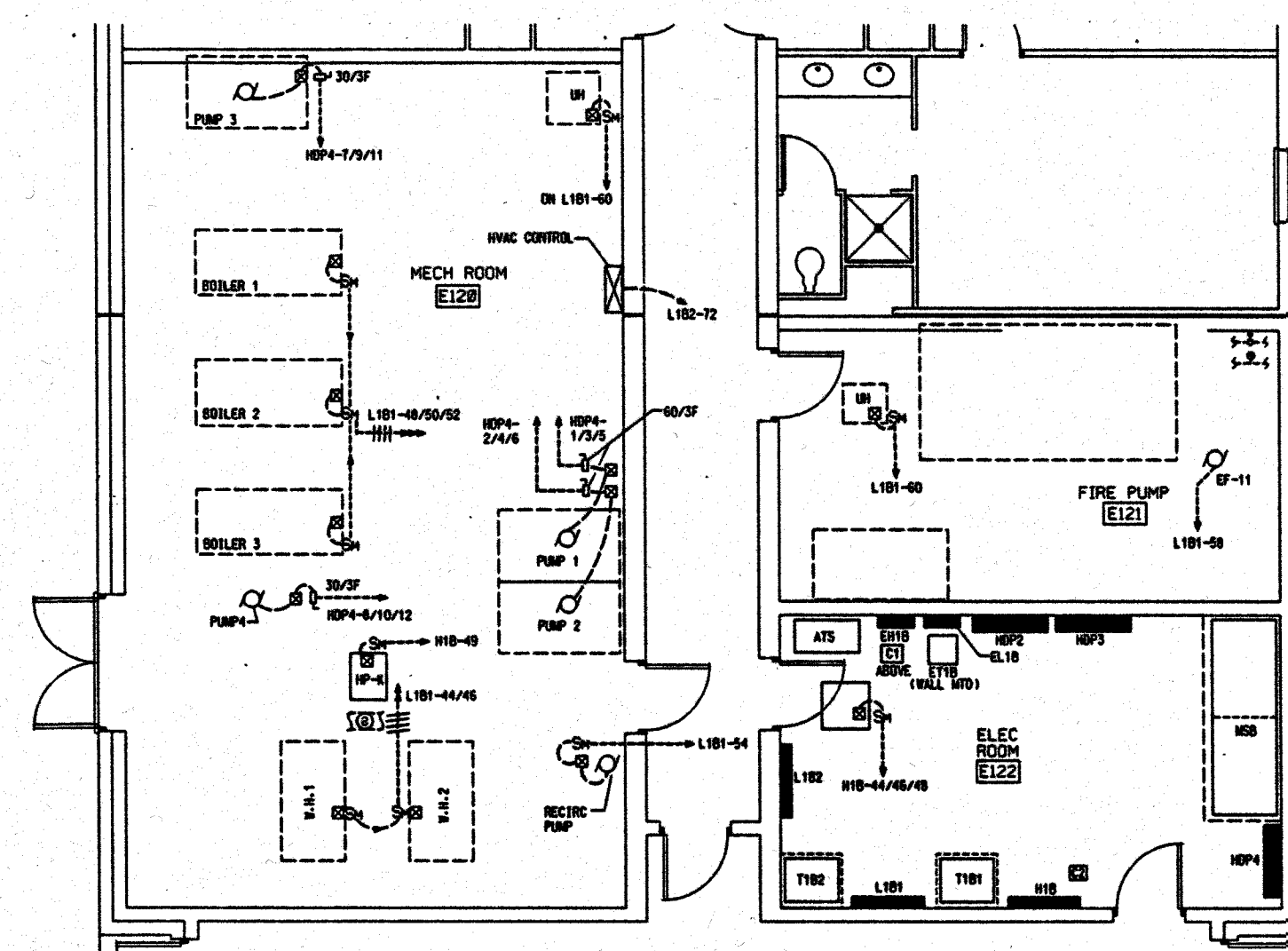
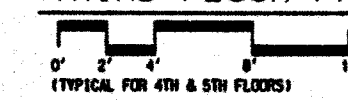
COMM. - W233
SECOND FLOOR PART 'C'



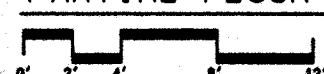
ELEC. - E335, E435, E535
THIRD FLOOR PART 'A'

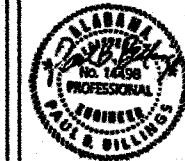
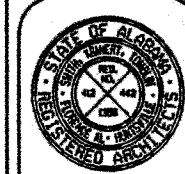


COMM. - W323, W423, W523
THIRD FLOOR PART 'C'



FIRST FLOOR PART B
PARTIAL FLOOR PLAN





ALABAMA A&M UNIVERSITY

**SMITH, KRANERT, TOMBLIN
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JAN	FEB	MAR
APR	MAY	JUN
JUL	AUG	SEP
OCT	NOV	DEC

SHEET NUMBER
E-15
OF
18



ELECTRICAL PANELBOARD SCHEDULES



MSB TYPE: OED SERVICE: 277/480V, 3PH, 4W MOUNTING: PAD SECTIONS: 2 AMPS S.I.C.: 100,000					
BREAKERS (CT. NOIS)	AMPS	POLES	EQUIV. K. W.	FEEDER NO.	REMARKS OR FEEDING
M.L.O.	4000	3	4023.1	A400	FROM UTILITY TRANSFORMER
MAIN-1	1200	3	698.9	V2	PANEL HOP1
MAIN-2	1200	3	854.2	V2	PANEL HOP2
MAIN-3	1200	3	965.0	V2	PANEL HOP3
MAIN-4	1000	3	733.35	U2	PANEL HOP4
MAIN-5	1000	3	571.65	U2	PANEL HOP5
MAIN-6	600	3			SPACE ONLY

HOP1 TYPE: I-LINE SERVICE: 277/480V, 3PH, 4W MOUNTING: S SECTIONS: 1 AMPS S.I.C.: 42,000					
BREAKERS (CT. NOIS)	AMPS	POLES	EQUIV. K. W.	FEEDER NO.	REMARKS OR FEEDING
M.L.O.	1200	3	698.7	V2	FROM MSB
1	400	3	241.1	Q2	PANEL H1A
2	600	3	395.2	S2	PANEL H2A
3	400	3	232.0	Q2	PANEL H3A
5-8	100	3			SPACE ONLY
4	45	3	30.0	C2	TRANSFORMER T1C1

HOP2 TYPE: I-LINE SERVICE: 277/480V, 3PH, 4W MOUNTING: S SECTIONS: 1 AMPS S.I.C.: 42,000					
BREAKERS (CT. NOIS)	AMPS	POLES	EQUIV. K. W.	FEEDER NO.	REMARKS OR FEEDING
M.L.O.	1200	3	854.2	V2	FROM MSB
1	400	3	232.0	Q2	PANEL H4A
2	400	3	259.3	Q2	PANEL H5A
3	600	3	352.9	S2	PANEL H1B THRU ATS
4-7	100	3			SPACE ONLY

HOP3 TYPE: I-LINE SERVICE: 277/480V, 3PH, 4W MOUNTING: S SECTIONS: 1 AMPS S.I.C.: 42,000					
BREAKERS (CT. NOIS)	AMPS	POLES	EQUIV. K. W.	FEEDER NO.	REMARKS OR FEEDING
M.L.O.	1200	3	965.0	V2	FROM MSB
1	600	3	387.6	S2	PANEL H2C
2	300	3	177.3	P2	PANEL H3C
3	300	3	177.3	P2	PANEL H4C
4	400	3	222.8	Q2	PANEL H5C
5-8	100	3			SPACE ONLY

HOP4 TYPE: I-LINE SERVICE: 277/480V, 3PH, 4W MOUNTING: S SECTIONS: 1 AMPS S.I.C.: 42,000					
BREAKERS (CT. NOIS)	AMPS	POLES	EQUIV. K. W.	FEEDER NO.	REMARKS OR FEEDING
M.L.O.	1000	3	733.35	U2	FROM MSB
1/3/5	50	3	28.3	C2	PUMP# 1
2/4/6	50	3	28.3	C2	PUMP# 2
7/9/11	30	3	17.5	B2	PUMP# 3
8/10/12	15	3	4.0	A3	PUMP# 4
13/15/17	40	3	25.3	C2	COOLING TOWER MOTORS
14/16/18	30	3	16.0	B2	COOLING TOWER HEATER
19/21/23	400	3	272.2	Q2	PANEL H1B
20/22/24	30	3			SPACE
25/27/29	600	3	331.25	R2	PANEL H1F
26/28/30	100	3			SPACE ONLY
21/33/35	100	3			SPACE ONLY
32/34/36	100	3			SPACE ONLY

HOP5 TYPE: I-LINE SERVICE: 277/480V, 3PH, 4W MOUNTING: S SECTIONS: 1 AMPS S.I.C.: 42,000					
BREAKERS (CT. NOIS)	AMPS	POLES	EQUIV. K. W.	FEEDER NO.	REMARKS OR FEEDING
M.L.O.	1000	3	571.65	U2	FROM MSB
1/3/5	25	3	15.0	B2	FT-1
2/4/6	20	3	11.5	A3	FT-2
7/9/11	35	3	22.1	B2	FT-3
8/10/12	30	3	17.1	B2	FT-4
13/15/17	30	3	19.1	B2	FT-5
14/16/18	15	3	5.5	A3	FT-6
19/21/23	25	3	15.0	B2	FT-7
20/22/24	15	3	5.5	A3	FT-8
25/27/29	25	3	15.0	A2	FT-10
26/28/30	175	3	99.3	L1	RTU-1
31/33/35	90	3	42.8	F2	RTU-2
32/34/36	90	3	42.8	F2	RTU-3
37/39/41	60	3	28.6	D2	RTU-4
38/40/42	175	3	90.6	L1	RTU-5
43/45/47	20	3	12.5	A3	FT-9
44/46/48	15	3	9.1	A3	FT-11
49/51/53	250	3	159.65	M2	PANEL H1E
50/52/54	200	3			SPACE ONLY
55/57/59	100	3			SPACE ONLY
56/58/60	200	3			SPACE ONLY

H1A TYPE: H1B SERVICE: 277/480V, 3PH, 4W MOUNTING: S SECTIONS: 2 AMPS S.I.C.: 14,000					
BREAKERS (CT. NOIS)	AMPS	POLES	EQUIV. K. W.	FEEDER NO.	REMARKS OR FEEDING
M.L.O.	400	3	241.7	Q2	FROM PANEL HOP1
1/3/5	20	1	10.9	A2	LIGHTING
2/4/6-20	20	1	34.9	A2	ROOM HVAC HEAT PUMPS
21/23/25	20	1	10.9		LIGHTING
24/26/28/30	20	1	8.6	A2	H.P.-J.H.L.L.I
27/29/31	15	3	5.4	A3	H.P.-M
32/34/36	100	3	75.0	F2	TRANSFORMER T1A1
33/35/37	100	3	75.0	F2	TRANSFORMER T1A2
22/39	30	1	10.0	B1	EX-A
38/40/42	15	3	6.8	A3	HP-F
43/45/47	15	3	4.2	A3	HP-D
44/46/48-56	20	1			SPARES
58-64	20	1			SPACE ONLY

H1B TYPE: H1B SERVICE: 277/480V, 3PH, 4W MOUNTING: S SECTIONS: 2 AMPS S.I.C.: 14,000					
BREAKERS (CT. NOIS)	AMPS	POLES	EQUIV. K. W.	FEEDER NO.	REMARKS OR FEEDING
M.L.O.	400	3	272.2	Q2	FROM PANEL HOP4
1/3/5	20	1	9.5	A2	LIGHTING
2	20	1	1.4	A2	LIGHTING
4/6-11	20	1	12.0	A2	SUITE HEAT PUMPS
12/14/16	20	1	10.8	A2	LIGHTING
13/15/17-24/26/28	20	1	26.7	A2	SUITE HEAT PUMPS
25/27/29-34	20	1	24.5	C1	EXT. LIGHTING
35/37/39	20	3	9.7	A3	H.P.-H
36/38/40	100	3	75.0	F2	TRANSFORMER T1B1
41/42/51	30	1	15.0	B1	EX-A'S
43/45/47	100	3	75.0	F2	TRANSFORMER T1B2
49/50	20	1	8.2	A2	HP-K, HP-S
51-60	20	1			SPARES
44/46/48	15	3	5.4	A3	HP-M
61-64	20	1			SPACE ONLY

H1E TYPE: H1B SERVICE: 277/480V, 3PH, 4W MOUNTING: S SECTIONS: 1 AMPS S.I.C.: 42,000					
BREAKERS (CT. NOIS)	AMPS	POLES	EQUIV. K. W.	FEEDER NO.	REMARKS OR FEEDING
M.L.O.	250	3	159.65	Q2	FROM PANEL HOP5
1-7/9-23	20	1	14.43	A2	LIGHTS - PART E
8/10/12/14	20	1	8.58	A2	LIGHTS - CORRIDORS
11/13/15	20	1	8.10	A2	LIGHTS - PART F
16-18	20	1	5.04	B1	LIGHTS - EXTERIOR (THRU CONTACTOR)
17/21	20	1	8.0	A2	EX-1 & 2
20/22/24	150	3	112.5	K1	TRANSFORMER T1E
25/27/29	20	3	3.0	A3	BALLROOM WALL MOTORS
19/25/28/30-36	20	1			SPARES
36-42	20	1			SPACE ONLY

H1F TYPE: H1B SERVICE: 277/480V, 3PH, 4W MOUNTING: S SECTIONS: 2 AMPS S.I.C.: 14,000					
BREAKERS (CT. NOIS)	AMPS	POLES	EQUIV. K. W.	FEEDER NO.	REMARKS OR FEEDING
M.L.O.	500	3	331.25	R2	FROM HOP4
1/3/5/7	20	1	9.17	A2	LIGHTS - CAFETERIA
2/4/6	20	1	9.78	A2	LIGHTS - KITCHEN
9/10/12	90	3	41.1	F2	RTU-6
9/11/13	15	3	9.2	A3	ITEM 54 - MOTORS
15/17/19	35	3	25.0	B2	ITEM 54 - HEATERS
21/23/25	80	3	54.0	E2	ITEM 52
14/16/18	35	3	24.0	B2	ITEM 42
20/22/24	225	3	150.0	N1	TRANSFORMER T1F (SUB-FEED)
26/28/30/32/34/36	15	3	5.6	A3	RANGE HOOD #1 & #2 EXHAUST
32/34/36/38/40/42/44/46/48	15	3	4.4	A3	RANGE HOOD #1 & #2 SUPPLY
38-42	20	1			SPARES
43-60	20	1			SPACE ONLY

* 120 V. SHUNT TRIP RED'D
NOTE: SEE KITCHEN VENDOR DRAWINGS FOR ROUGH-IN AND EQUIPMENT INFO.

H2A TYPE: H1B SERVICE: 277/480V, 3PH, 4W MOUNTING: S SECTIONS: 2 AMPS S.I.C.: 14,000					
BREAKERS (CT. NOIS)	AMPS	POLES	EQUIV. K. W.	FEEDER NO.	REMARKS OR FEEDING
M.L.O.	600	3	395.2	S2	FROM PANEL HOP1
1-3	20	1	7.9	A2	LIGHTING
2/4-10/12	20	1	20.7	A2	SUITE HEAT PUMPS
11/13	20	1	7.2	A2	LIGHTING
14-24	20	1	22.0	A2	SUITE HEAT PUMPS
25/27/29	15	3	5.2	A3	HP-E
26/28/30	20	1	10.8	A2	LIGHTING
31	20	1	0.8	A2	H.P.-I
33/35/37	15	3	5.2	A3	H.P.-E
32/34/36	15	3	5.4	A3	H.P.-M
38/40/42	150	3	112.5	K1	TRANSFORMER T2A1
39/41	20	1			SPARES
43/45/47	150	3	112.5	F1	TRANSFORMER T2A2
44/46/48/49	20	1			SPARES
50/52/54	40	3	20.0	C2	EUN-B
51/53/55	40	3	20.0	C2	EUN-B
56/58/60	70	3	45.0	E2	TRANSFORMER T2A3
57/59/60	20	1			SPACE ONLY

H2C TYPE: H1B SERVICE: 277/480V, 3PH, 4W MOUNTING: S SECTIONS: 2 AMPS S.I.C.: 14,000					
BREAKERS (CT. NOIS)	AMPS	POLES	EQUIV. K. W.	FEEDER NO.	REMARKS OR FEEDING
M.L.O.	600	3	387.6	S2	FROM PANEL HOP3
1-3	20	1	7.8	A2	LIGHTING
2/4	20	1	5.4	A2	SUITE LIGHTING
5/7/9	20	1	9.9	A2	SUITE LIGHTING
6/8/10-15/15	20	1	15.4	A2	HEAT PUMPS
14/16-25	20	1	27.1	A2	HEAT PUMPS
27/29/31	15	3	6.8	A3	H.P.-G
28/30/32	15	3	5.2	A3	H.P.-E
33/35/37	150	3	112.5	K1	TRANSFORMER T2C1
34/36/38	150	3	112.5	K1	TRANSFORMER T2C2
39-44	20	1			SPARES
45/47/49	40	3	20.0	C2	EUN-B
46/48/50	40	3	20.0	C2	EUN-B
51/53/55	70	3	45.0	E2	TRANSFORMER T2C3
52/54/56-60	20	1			SPACE ONLY

H3A & H4A TYPE: H1B SERVICE: 277/480V, 3PH, 4W MOUNTING: S SECTIONS: 2 AMPS S.I.C.: 14,000					
BREAKERS (CT. NOIS)	AMPS	POLES	EQUIV. K. W.	FEEDER NO.	REMARKS OR FEEDING
M.L.O.	400	3	232.0	Q2	FROM PANEL HOP1 OR HOP2
1-3	20	1	7.9	A2	LIGHTING
2/4-10/12	20	1	20.7	A2	SUITE HEAT PUMPS
11/13	20	1	7.2	A2	LIGHTING
14-25	20	1	24.0	A2	SUITE HEAT PUMPS
26-28/30	20	1	10.8	A2	LIGHTING
27	20	1	0.8	A2	H.P.-I
29/31/33	15	3	5.2	A3	H.P.-E
32/34/36	15	3	5.4	A3	H.P.-M
35/37/39	100	3	75.0	F2	TRANSFORMER T4A1
38/40/42	100	3	75.0	F2	TRANSFORMER T4A2
43-48	20	1			SPARES
49-60	20	1			SPACE ONLY

H3C & H4C TYPE: H1B SERVICE: 277/480V, 3PH, 4W MOUNTING: S SECTIONS: 2 AMPS S.I.C.: 14,000					
BREAKERS (CT. NOIS)	AMPS	POLES	EQUIV. K. W.	FEEDER NO.	REMARKS OR FEEDING
M.L.O.	300	3	177.3	P2	FROM PANEL HOP3
1-3	20	1	7.8	A2	LIGHTING
2/4	20	1	5.4	A2	SUITE LIGHTING
5/7/9	20	1	9.9	A2	SUITE LIGHTING
6/8/10-15/15	20	1	13.8	A2	HEAT PUMPS - PART C
14/16-25/27	20	1	11.7	A2	HEAT PUMPS - PART D
26/28/30	20	3	8.7	A3	H.P.-H
29/31/33	70	3	45.0	E2	TRANSFORMER T4C1
32/34/36	100	3	75.0	F2	TRANSFORMER T4C2
35/37-42	20	1			SPARES
43-60	20	1			SPACE ONLY

H5A TYPE: H1B SERVICE: 277/480V, 3PH, 4W MOUNTING: S SECTIONS: 2 AMPS S.I.C.: 14,000					
BREAKERS Ckt. NOS)	AMPS	POLES	EQUIV. K. W.	FEEDER NO.	REMARKS OR FEEDING
M.L.O.	400	3	269.3	Q2	FROM PANEL HOP2
1-3	20	1	7.9	A2	LIGHTING
2-9	20	1			SPARES
4-9,10,12	20	1	20.3	A2	SUITE HEAT PUMPS - PART A
11,13	20	1	7.2	A2	LIGHTING
14-25	20	1	34.8	A2	SUITE HEAT PUMPS - PART B
26-28,30	20	1	10.8	A2	LIGHTING
27	20	1	0.8	A2	H.P.-I
29/31/33	15	3	6.0	A3	H.P.-F
32/34/36	15	3	5.4	A3	H.P.-W
35/37/39	100	3	75.0	F2	TRANSFORMER T5A1
38/40/42	100	3	75.0	F2	TRANSFORMER T5A2
41	20	1	0.6	A2	LIGHTS
43/45/47, 44/46/48	15	3	4.4	A3	EF-1,2
49/51/53, 50/52/54	15	3	2.4	A3	EF-1,2
55/57/59, 56/58/60	15	3	4.4	A3	EF-3,4
61/63/65, 62/64/66	15	3	3.7	A3	EF-3,4
67/69/71	15	3	2.2	A3	EF-5
68/70/72, 73/75/77	15	3	8.4	A3	HP-D'S
78-84	20	1			SPACE ONLY

ELECTRICAL PANELBOARD SCHEDULES



L1A2 TYPE: NODD MOUNTING: S SECTIONS: 2 SERVICE: 120/208V, 3PH, 4W AMP S.I.C.: 10,000					
BREAKERS C.T. NO(S)	AMPS	POLES	EQUIV. K. W.	FEEDER NO.	REMARKS OR FEEDING
MAIN	250	3	78.3	02	FROM TRANSFORMER T1A2
1-53	20	1	63.6	A2	SUITE OUTLETS
54	20	1	1.2	A2	RECEPTABLES
55-57	60	2	8.0	B2	RANGE OUTLET
58-59	30	2	5.5	B2	DRYER OUTLET
59-64	20	1			SPARES
65-72	20	1			SPACE ONLY

L1B1 TYPE: NODD MOUNTING: S SECTIONS: 2 SERVICE: 120/208V, 3PH, 4W AMP S.I.C.: 10,000					
BREAKERS C.T. NO(S)	AMPS	POLES	EQUIV. K. W.	FEEDER NO.	REMARKS OR FEEDING
MAIN	250	3	78.9	02	FROM TRANSFORMER T1B1
1-3	20	1	2.4	A2	RECEPTABLES
2,4,6	20	1	3.6	A2	RECEPTABLES
5,7	20	1	2.4	A2	RECEPTABLES
8,10,12	20	1	3.6	A2	RECEPTABLES
9,11	60	2	8.0	03	RANGE
13,15	30	2	5.5	B2	DRYER
14,16-40,42	20	1	32.4	A2	SUITE OUTLETS
41	20	1	0.6	C1	GROUND LIGHTS
43,45,47	20	1	3.6	A2	SUITE OUTLETS
44,46	30	1	3.8	B1	W.H. -1,2
48,50,52	20	1	3.0	A2	BUILDERS-1,2,3
49	20	1	0.5	A2	COOLING TONER CONTROLS
51	20	1	1.5	A2	COOLING TONER HEAT TAPE
53,55	20	1	3.0	A2	VENDING RECEPTABLES
54,58-60	20	1	1.5	A2	CIRC. PUMP, EF-11, 0H
56	20	1	0.5	A2	GEN. BATTERY CHARGER
61-72	20	1			SPACE ONLY
57,59	20	2	3.0	A2	GEN. BLOCK HEATER

L1B2 TYPE: NODD MOUNTING: S SECTIONS: 2 SERVICE: 120/208V, 3PH, 4W AMP S.I.C.: 10,000					
BREAKERS C.T. NO(S)	AMPS	POLES	EQUIV. K. W.	FEEDER NO.	REMARKS OR FEEDING
MAIN	250	3	85.2	02	FROM TRANSFORMER T1B2
1-42	20	1	50.4	A2	SUITE OUTLETS
43-71	20	1	34.8	A2	SUITE OUTLETS
72	20	1	0.6	A2	HVAC CONTROLS
73-77	20	1			SPARES
78-84	20	1			SPACE ONLY

L1E TYPE: NODD MOUNTING: S SECTIONS: 2 SERVICE: 120/208V, 3PH, 4W AMP S.I.C.: 10,000					
BREAKERS C.T. NO(S)	AMPS	POLES	EQUIV. K. W.	FEEDER NO.	REMARKS OR FEEDING
MAIN	400	3	132.5	02	FROM TRANSFORMER T1E
1-37, 77, 79, 81, 82	20	1	39.0	A2	RECEPTABLES
38,40	20	1	2.0	A2	RECEPTABLE - FRONT COUNTER (10)
39,41	20	1	1.4	A2	RECEPTABLE - FRONT COUNTER
42	20	1	0.7	A2	RECEPTABLE - SODA TONER
43,45,47	30	3	5.4	B2	ICE MACHINE
44,46	25	2	3.5	B1	COFFEE BREWER
48,50	20	1	2.4	A2	MENU BOARDS
49,51	15	2	0.4	A2	REMOTE CONDENSOR
52,54	20	1	2.2	A2	FRY BAGGER-FREEZER
53,55,57	20	1	2.9	A2	REACH-IN FREEZER, REFRIG., TIME CLOCK
58,59	30	2	4.3	B1	MUFFIN TOASTER
59,61	20	2	3.3	A2	UNIVERSAL TOASTER
60	20	1	0.5	A2	RECEPTABLE - UC REFRIG.
62,64	20	1	2.3	A2	STAGING, NUGGET CABINETS
63,65,66,68	20	2	4.2	A2	(2) O-ING OVENS
67	20	1	1.2	A2	TRANSFER BIN
69	20	1	0.5	A2	VIDEO MONITOR
70-73	20	1	3.1	A2	EF-12,13,14,15
74	20	1	1.2	A2	RECEPTABLES
75,77	20	1	3.2	A2	TRACK LIGHTS
78,79,80	150	3	48.8	R2	PANEL L1E1
83-84	20	1			SPARES

L1E1 TYPE: NODD MOUNTING: S SECTIONS: 1 SERVICE: 120/208V, 3PH, 4W AMP S.I.C.: 10,000					
BREAKERS C.T. NO(S)	AMPS	POLES	EQUIV. K. W.	FEEDER NO.	REMARKS OR FEEDING
MAIN	150	3	48.8	R2	FROM L1E
1-13,15,32	20	1	23.8	A2	BANQUET HALL LIGHTS
14,16,18	20	1	3.0	A2	GRIDDLE STATION
17,19,28-30	20	1	5.0	A2	RECEPTABLES
21	20	1	1.0	A2	PROJ. SCREEN
22,24,26,23,25,27	50	3	14.0	B2	GRILLS
31	20	1	1.0	A2	HOOD
33	20	1	1.0	A2	F.T. CONTROLS
34-42	20	1			SPARES

L1F TYPE: NODD MOUNTING: S SECTIONS: 2 SERVICE: 120/208V, 3PH, 4W AMP S.I.C.: 10,000					
BREAKERS C.T. NO(S)	AMPS	POLES	EQUIV. K. W.	FEEDER NO.	REMARKS OR FEEDING
MAIN	300	3	147.81	R2	FROM TRANSFORMER T1F
1-4	20	1	5.6	A2	RECEPTABLES
5,7,9	20	1	5.4	A2	LIGHTS/DOOR HTR-FREEZER/COOLERS
6,8	20	1	0.86	A2	ITEM 14, 8 EVAPORATOR
10,12	20	2	2.25	A2	ITEM 11 EVAPORATOR, DEFROST
14,16,18	15	3	1.5	A3	ITEM 7 CONDENSING UNIT
20,22,24	15	3	2.8	A3	ITEM 10 CONDENSING UNIT
26,28,30	15	3	2.15	A3	ITEM 13 CONDENSING UNIT
11,13,15	30	3	9.0	B2	ITEM 59
17	20	1	1.5	A2	ITEM 45
19	20	1	1.9	A2	ITEM 27
21	20	1	0.6	A2	ITEM 40 *
23	20	1	0.7	A2	ITEM 43 *
25,27	20	1	2.1	A2	ITEMS 34, 33 *
29,31,33	20	1	1.4	A2	ITEMS 33(3) *
35,37	20	1	1.4	A2	ITEMS 37(2) *
32	20	1	1.4	A2	ITEM 17
34,36,38	15	3	2.1	A3	ITEM 18
39	20	1	1.8	A2	ITEM 21
40	20	1	1.4	A2	ITEM 25
41	20	1	1.2	A2	ITEM 50
42	20	1	1.4	A2	ITEM 63
43,45,47	15	3	1.5	A3	ITEM 47
44,46,48	20	3	2.2	A3	ITEM 49
49,51	20	2	3.3	A3	ITEM 65
50,52-55	20	1	7.5	A2	RECEPTABLES
56,58,57,59	30	2	8.6	B2	ITEMS 62(2)
60,62	15	2	2.05	A2	ITEM 67 LIGHTS
61,63	35	2	6.0	B2	ITEM 67
64	20	1	1.9	A2	ITEM 68
65,67,69	35	3	9.6	B3	ITEM 31
66,68,70	35	3	9.0	B3	ITEM 76
71,73	20	2	2.9	A2	ITEM 87
72,74	20	1	3.8	A2	ITEMS 81(2)
75,77,79	20	1	4.2	A2	ITEMS 50, 73, 70 LIGHTS
76	25	1	2.0	B1	ITEM 70
78	20	1	1.8	A2	ITEM 77
80,82,84	100	3	33.0	F3	PANEL L2F
81,83	20	1			SPARES

* SHUNT TRIP REQUIRED
NOTE: SEE AIR/OTEN EQUIPMENT VENDOR DRAWINGS

L2F TYPE: NODD MOUNTING: S SECTIONS: 1 SERVICE: 120/208V, 3PH, 4W AMP S.I.C.: 10,000					
BREAKERS C.T. NO(S)	AMPS	POLES	EQUIV. K. W.	FEEDER NO.	REMARKS OR FEEDING
MAIN	100	3	33.0	F3	FROM PANEL L1F
1/3,5,2,4,6	25	3	6.6	B2	ITEM 79
7,9	20	1	2.2	A2	ITEMS 74, 75
8,10	20	2	2.05	A2	ITEM 74 LIGHTS
11,13	20	2	2.05	A2	ITEM 74 LIGHTS
12	20	1	0.9	A2	ITEM 74
14	20	1	0.5	A2	ITEM 44
15,17,19	15	3	3.1	A3	ITEM 55
16	20	1	1.2	A2	ITEM 58
18,20	15	1	1.4	A2	EF-16,17
21	20	1	1.2	A2	EF-18
22-27,33,34	20	1	6.0	A2	RECEPTABLES
38-42	20	1			SPARES
28,30	30	1	3.8	B1	WH-3,4
29,31	20	1	1.0	A2	CIRC. PUMPS
32	20	1	0.5	A2	UNIT HEATER
35	20	1	0.5	A2	SHUNT TRIP POWER

L2M TYPE: NODD MOUNTING: S SECTIONS: 2 SERVICE: 120/208V, 3PH, 4W AMP S.I.C.: 10,000					
BREAKERS C.T. NO(S)	AMPS	POLES	EQUIV. K. W.	FEEDER NO.	REMARKS OR FEEDING
MAIN	400	3	115.9	02	FROM TRANSFORMER T2M
1-42	20	1	50.4	A2	SUITE OUTLETS
43-48	20	1	7.2	A2	SUITE OUTLETS
49-52	20	1	4.8	A2	RECEPTABLES
53-59,61,63	20	1	13.5	A2	WASHERS
60,62,64,66	30	2	11.0	B2	DRYERS
65,67,69,70	30	2	11.0	B2	DRYERS
69,71,72,74	30	2	11.0	B2	DRYERS
73,75,76,78	30	2	11.0	B2	DRYERS
77,79-81	20	1			SPARES
82-84	20	1			SPACE ONLY

L2A2 TYPE: NODD MOUNTING: S SECTIONS: 2 SERVICE: 120/208V, 3PH, 4W AMP S.I.C.: 10,000					
BREAKERS C.T. NO(S)	AMPS	POLES	EQUIV. K. W.	FEEDER NO.	REMARKS OR FEEDING
MAIN	400	3	108.2	02	FROM TRANSFORMER T2A2
1-66	20	1	79.2	A2	SUITE OUTLETS
67-78	20	1	18.0	A2	WASHERS
79,81,80,82	30	2	11.0	B2	DRYERS
83,84	20	1			SPARES

L2C1 TYPE: NODD MOUNTING: S SECTIONS: 2 SERVICE: 120/208V, 3PH, 4W AMP S.I.C.: 10,000					
BREAKERS C.T. NO(S)	AMPS	POLES	EQUIV. K. W.	FEEDER NO.	REMARKS OR FEEDING
MAIN	400	3	117.7	02	FROM TRANSFORMER T2C1
1-5	20	1	6.0	A2	RECEPTABLES
6-35	20	1	36.0	A2	SUITE OUTLETS
36-41	20	1	7.2	A2	SUITE OUTLETS
42	20	1			SPACE
43-49,51,53	20	1	13.5	A2	WASHER
50,52,54,56	30	2	11.0	B2	DRYERS
55,57,59,60	30	2	11.0	B2	DRYERS
59,61,62,64	30	2	11.0	B2	DRYERS
63,65,66,68	30	2	11.0	B2	DRYERS
67,69,70,72	30	2	11.0	B2	DRYERS
71,73-76	20	1			SPARES
77-84	20	1			SPACE ONLY

L2C2 TYPE: NODD MOUNTING: S SECTIONS: 2 SERVICE: 120/208V, 3PH, 4W AMP S.I.C.: 10,000					
BREAKERS C.T. NO(S)	AMPS	POLES	EQUIV. K. W.	FEEDER NO.	REMARKS OR FEEDING
MAIN	400	3	100.2	02	FROM TRANSFORMER T2C2
1-68	20	1	79.2	A2	SUITE OUTLETS
67-78	20	1	18.0	A2	WASHERS
79,81,83	20	1	3.0	A2	VENDING RECEPTABLES
80,82,84	20	1			SPARES

— DENOTES L3A1, L4A1, L5A1 (TYPICAL)

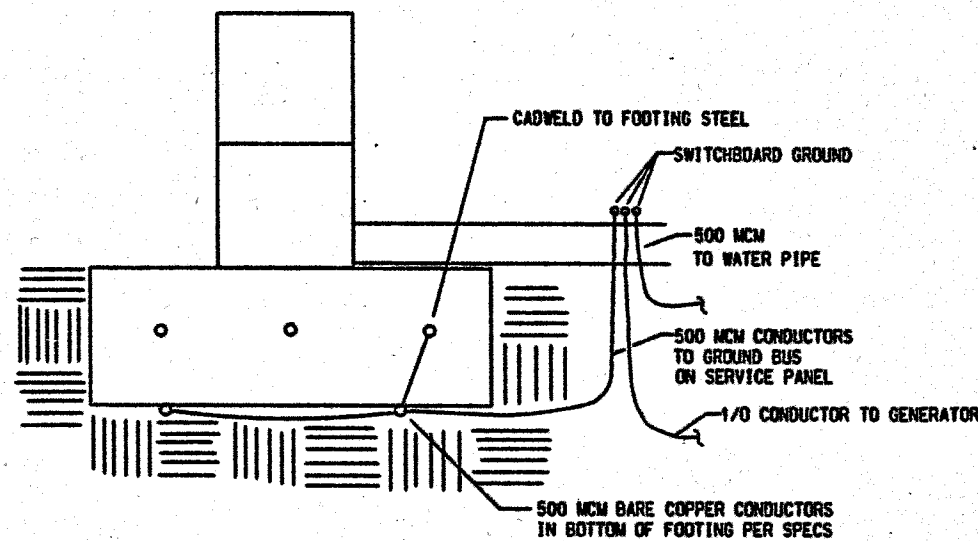
L4A1 TYPE: NODD MOUNTING: S SECTIONS: 2 SERVICE: 120/208V, 3PH, 4W AMP S.I.C.: 10,000					
BREAKERS C.T. NO(S)	AMPS	POLES	EQUIV. K. W.	FEEDER NO.	REMARKS OR FEEDING
MAIN	250	3	62.4	02	FROM TRANSFORMER T4A1
1-42	20	1	50.4	A2	SUITE OUTLETS
43-48	20	1	7.2	A2	SUITE OUTLETS
49-52	20	1	4.8	A2	RECEPTABLES
53-58	20	1			SPARES
59-72	20	1			SPACE ONLY

L4A2 TYPE: NODD MOUNTING: S SECTIONS: 2 SERVICE: 120/208V, 3PH, 4W AMP S.I.C.: 10,000					
BREAKERS C.T. NO(S)	AMPS	POLES	EQUIV. K. W.	FEEDER NO.	REMARKS OR FEEDING
MAIN	250	3	87.6	02	FROM TRANSFORMER T4A2
1-66	20	1	79.2	A2	SUITE OUTLETS
67-72	20	1	7.2	A2	SUITE OUTLETS
73	20	1	1.2	A2	RECEPTABLES
74-79	20	1			SPARES
80-84	20	1			SPACE ONLY

L4C1 TYPE: NODD MOUNTING: S SECTIONS: 2 SERVICE: 120/208V, 3PH, 4W AMP S.I.C.: 10,000					
BREAKERS C.T. NO(S)	AMPS	POLES	EQUIV. K. W.	FEEDER NO.	REMARKS OR FEEDING
MAIN	150	3	49.2	02	FROM TRANSFORMER T4C1
1-5	20	1	6.0	A2	RECEPTABLES
6-35	20	1	36.0	A2	SUITE OUTLETS
36-41	20	1	7.2	A2	SUITE OUTLETS
42-47	20	1			SPARES
48-60	20	1			SPACE ONLY

LIGHTING FIXTURE SCHEDULE						
TYPE	MANUFACTURER	CATALOG NUMBER	VOLT	QTY	TYPE	REMARKS
A	LITHONIA	26740A12-125	277	4	RECESSED	2X4 LENSED
A1	LITHONIA	2P4308340185	277	3	RECESSED	2X4 PARABOLIC
A2	LITHONIA	2P4308440245	277	4	RECESSED	2X4 PARABOLIC
A3	LITHONIA	2P433227LS	277	3	RECESSED	2X4 OPTIMAX
A4	LITHONIA	SP0240A12-125	277	2	RECESSED	1X4 LENSED
A5	LITHONIA	2SP62040A12-125	277	2	RECESSED	2X2 LENSED
B	LITHONIA	W240WH	277	2		4' WALL BRACKET
C	LITHONIA	C240-WG	277	2		4' STRIP
C1	LITHONIA	C250-WG	277	2		3' STRIP
D	LITHONIA	AF2/260TAR	277	2		PL DOWN
D1	LITHONIA	LQ2130T-RL15	277	2		SHOWER
E	LITHONIA	AHT057AR	277	1		HPS DOWN
E1	LITHONIA	AHT057AR-GRS	277	1		HPS DOWN W/ QTZ RESTRIKE
F	LITHONIA	ASAR	120	1		INC. DOWN
G	LITHONIA	EO5MB-P2	120	1		QTZ. DOWN
H	ML CORP	4056-8395X-FW11-03-SBN-P2	277	8	3991AX	PENDANT ACRYLIC DOME
H1	FORMALEGACY	FP-6-39-EL-WHITE	277	6	F39CF	PENDANT SQUARE
I	SP1	EDR-1203	277	1	70W WH	WALL SCORCE
J	LITHONIA	EO5AR-P2	120	1	250V	RECESSED INC. DOWN
J1	LITHONIA	EO5AR-P1	120	1	150W	RECESSED INC. DOWN
K	LITHONIA	SS240	277	2		COVE STAGGERED STRIP
L	SP1	SPR-TC-1011	277	3	PL	PENDANT CLUSTER OF 3
M	LITHONIA	DV570-277	277	1	MR16 WATTAGE	RECESSED ADV. SPOT
N	LITHONIA	CC11-1005-AR-GRS	277	1	HPS	WALL EXTERIOR - QUARTZ RESTRIKE
O	NOT USED					
P	KIM	WTC300	277	1	100 HPS	12 FT. POLE HPS POST TOP
Q	LITHONIA	VOC24ORS	277	2		SURFACE DOWN CEILING
Q1	LITHONIA	VOC24ORS	277	2		CORNER DOWN BATH
R	KIM	EXG401	277	2	250 HPS	30 FT. POLE HPS SHOE BOX
R1	KIM	EXG401	277	1	250 HPS	30 FT. POLE HPS SHOE BOX
S	LITHONIA	WUC-WG	120	1		ELEV. PIT LIGHT
S1	LITHONIA	ES1R	277	2	INCL.	EXIT LIGHT
T	KIM	AFL1	120	1	100 MH	FLUSH CONCRETE BASE IN GROUND AIM TO SIGN
T1	KIM	AFL3	120	1	100 MH	FLUSH CONCRETE BASE IN GROUND AIM TO FLAG
T2	KIM	5033MH	120	1	100 MH	DIRECT BURIAL AIM TO TREES
U	LITHONIA	12/4/8 TWO CIRCUIT TRACK W/1250 FIXTURES	120	A/R	75 R	SURFACE TRACK LIGHTING

NOTE: ALL DECORATIVE AND TRACK FIXTURE COLORS SHALL BE COORDINATED WITH ARCHITECT DURING SUBMITTAL PROCESS, PRIOR TO PURCHASE.



DETAIL OF SERVICE GROUND
NO SCALE

GENERAL ELECTRICAL LEGEND		
SYMBOL	DESCRIPTION	MTG. HGT.
○	CEILING OUTLET, SURFACE FIXTURE	
⊙	CEILING OUTLET, SURFACE FIXTURE, ON LIFE SAFETY	
⊖	CEILING OUTLET, RECESSED FIXTURE	
⊖	CEILING OUTLET, RECESSED FIXTURE ON LIFE SAFETY CIRCUIT	
○	BRACKET OUTLET	
⊖	BRACKET OUTLET, ON LIFE SAFETY	
□	SURFACE FLUORESCENT LIGHTING FIXTURE	
□	RECESSED FLUORESCENT LIGHTING FIXTURE	
—	FLUORESCENT STRIP LIGHT FIXTURE	
⊙	FLOODLIGHT FIXTURE	
□	AREA OR STREET LIGHTING FIXTURE	
⊙	BOLLARD STYLE AREA LIGHTING FIXTURE	
⊙	EXIT LIGHT, ARROWS AS SHOWN, ON LIFE SAFETY CIRCUIT	
⊖	EMERGENCY LIGHT WALL MOUNTED	6'-8" AFF
S	SINGLE POLE SWITCH	48" AFF
S2	DOUBLE POLE SWITCH	48" AFF
S3	THREE-WAY SWITCH	48" AFF
S4	FOUR-WAY SWITCH	48" AFF
SD	DIMMER SWITCH - SLIDE TYPE, WATTAGE AS REQUIRED PER SPECS	48" AFF
\$	RED SINGLE POLE SWITCH, ON EMERGENCY CIRCUIT	48" AFF
\$2	SINGLE POLE SWITCH, LOWER CASE LETTER DENOTES FIXTURE SERVED	48" AFF
⊖	DUPLEX GROUNDING RECEPTACLE	18" AFF
⊖	DUPLEX GROUNDING RECEPTACLE	ABC
○	FLOOR RECEPTACLE	
⊖	SINGLE RECEPTACLE	18" AFF
⊖ R	RANGE OUTLET	8" AFF
⊖ V	WASHER DUPLEX RECEPTACLE	48" AFF
⊖ D	DRYER OUTLET	48" AFF
⊖	DOUBLE DUPLEX GROUNDING RECEPTACLE	18" AFF
⊖	RED DUPLEX GROUNDING RECEPTACLE ON EMERGENCY CIRCUIT	18" AFF
TV	RECEPTACLE FOR TELEVISION	18" AFF
⊖	JUNCTION OR PULL BOX	
⊖	JUNCTION OR PULL BOX FOR COMPUTER EQUIPMENT	
⊖	MOTOR, E.F. DENOTES EXHAUST FAN	
S M	MANUAL MOTOR STARTER OR RELAY CONTROL	
⊖	MAGNETIC MOTOR STARTER OR TERMINAL CONNECTION	
□	SAFETY SWITCH, WP INDICATES WEMA 3R, FUSED, U.D.N.	
■	LIGHTING OR POWER PANEL	
■	MAIN OR SUB-DISTRIBUTION PANEL	
ATS	AUTOMATIC TRANSFER SWITCH	
II	TRANSFORMER	
TC	TIME CLOCK - SEE SPECS	
⊖	CONTACTOR - SEE SPECS	
⊖	PHOTO-ELECTRIC SWITCH - AIM NORTHEAST, SEE SPECS	
⊖	THERMOSTAT, SEE MECHANICAL	48" AFF
—	CONDUIT, CONCEALED IN CEILING OR WALL	
—	CONDUIT, CONCEALED IN SLAB OR BELOW FLOOR/GRADE	
—	CONDUIT, EXPOSED	
—	CONDUIT, TURNING UP	
—	CONDUIT, TURNING DOWN	
—	CONDUIT, 1/2" WITH CONTROL WIRING, SEE MECHANICAL	
— TV —	CONDUIT, TELEVISION SYSTEM	
— S —	CONDUIT, SOUND OR PAGING SYSTEM	
— T —	CONDUIT, TELEPHONE SYSTEM	
— I —	CONDUIT, INTERCOM SYSTEM	
—	CONDUIT, FLEXIBLE TO EQUIPMENT CONNECTION POINT	
WP	WEATHERPROOF	
G	GROUND FAULT CURRENT INTERRUPTING	
AFF	ABOVE FINISHED FLOOR	
ABC	ABOVE COUNTER	
UC	UNDERCOUNTER	
UN	UNLESS OTHERWISE NOTED	
GC	GENERAL CONTRACTOR	
MC	MECHANICAL CONTRACTOR	
EC	ELECTRICAL CONTRACTOR	
EDF	ELECTRIC DRINKING FOUNTAIN	
EDH	ELECTRIC DUCT HEATER	
EW	ELECTRIC WALL HEATER	
WH	WATER HEATER	
R.T.U.	ROOF TOP UNIT	
A.H.U.	AIR HANDLING UNIT	
A.C.U.	AIR CONDITIONING UNIT	

GENERAL ELECTRICAL LEGEND		
SYMBOL	DESCRIPTION	MTG. HGT.
C.U.	CONDENSING UNIT	
U.H.	UNIT HEATER	
NIC	NOT IN CONTRACT	
NTS	NOT TO SCALE	
AFG	ABOVE FINISHED GRADE	
FBO	FURNISHED BY OTHERS	
TTB	TELEPHONE TERMINAL BOARD	
TVSS	TRANSIENT VOLTAGE SURGE PROTECTOR	
ECB	ENCLOSED CIRCUIT BREAKER	

FIRE ALARM SYSTEM LEGEND		
SYMBOL	DESCRIPTION	MTG. HGT.
⊖	FIRE ALARM MANUAL PULL STATION	48" AFF
⊖	FIRE ALARM CEILING MOUNTED HEAT DETECTOR	
⊖	FIRE ALARM CEILING MOUNTED SMOKE DETECTOR	
⊖	FIRE ALARM DUCT MOUNTED SMOKE DETECTOR	
⊖	FIRE ALARM CHIME	6'-8" AFF
⊖	FIRE ALARM FLASHING LIGHT/CHIME	6'-8" AFF
⊖	FIRE ALARM FLASHING LIGHT/HORN	6'-8" AFF
⊖	FIRE ALARM FLASHING LIGHT	6'-8" AFF
⊖	FIRE ALARM CONTROL PANEL, TOP CONTROL AT 5'	
⊖	FIRE ALARM ANNUNCIATOR PANEL, TOP CONTROL AT 5'	
⊖	FIRE ALARM DOOR HOLDER	
⊖	FIRE ALARM FLOW DETECTOR/SWITCH	
⊖	FIRE ALARM TAMPER DETECTOR/SWITCH	
⊖	FIRE ALARM POST INDICATOR VALVE	
⊖	FIRE ALARM CLO DETECTOR W/ARM CONTACT FOR ELEV. RECALL	
⊖	ELEVATOR FIRE WARNING LIGHT - SEE SPECS	6'-8" AFF

COMMUNICATIONS LEGEND		
SYMBOL	DESCRIPTION	MTG. HGT.
⊖	TELEPHONE OUTLET	18" AFF
⊖	TELEPHONE OUTLET, WALL MOUNTED	54" AFF
⊖	TELEPHONE OUTLET, ABOVE COUNTER	ABC
⊖	ONE GANG OUTLET FOR COMPUTER	18" AFF
⊖	ONE GANG OUTLET FOR DICTATION	18" AFF
⊖	TELEPHONE FLOOR OUTLET, SEE SPECS	
⊖	PUBLIC TELEPHONE OUTLET, WALL MOUNTED	54" AFF
⊖	TELEVISION OUTLET	18" AFF
⊖	TELEVISION HEAD-END EQUIPMENT	
⊖	SPEAKER, CEILING MOUNTED	
⊖	SPEAKER HORN, WALL MOUNTED	
⊖	SPEAKER, WALL MOUNTED	6'-8" AFF
⊖	MICROPHONE OUTLET - 3/4" CONDUIT TO CEILING SPACE	
⊖	AMPLIFIER, PAGING OR SOUND SYSTEM - CONDUIT AS REQ'D TO CEILING SPACE	
⊖	GENERATOR ALARM PANEL	
⊖	VOLUME CONTROL	48" AFF
⊖	ADMINISTRATIVE STATION	
⊖	CLOCK OUTLET, WALL MOUNTED	6'-8" AFF

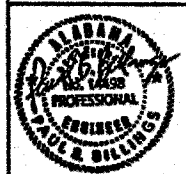
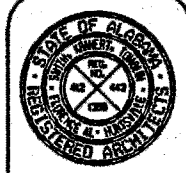
DOOR MONITOR SYSTEM LEGEND		
SYMBOL	DESCRIPTION	MTG. HGT.
⊖	DOOR MONITOR SYSTEM DOOR SWITCH	
⊖	DOOR MONITOR SYSTEM DOOR ALARM ANNUNCIATOR PANEL	
⊖	DOOR MONITOR SYSTEM POWER SUPPLY	

BRANCH CIRCUITING LEGEND		
—	A-1	ONE 1-POLE CKT HOMERUN TO PANEL A
—	A-1.3	TWO 1-POLE CKT HOMERUNS TO PANEL A
—	A-1.3.5	THREE 1-POLE CKT HOMERUNS TO PANEL A
—	A-1/3	ONE 2-POLE CKT HOMERUN TO PANEL A
—	A-1/3.2/4	TWO 2-POLE CKT HOMERUNS TO PANEL A
—	A-1/3/5	ONE 3-POLE CKT HOMERUN TO PANEL A



BRANCH CIRCUIT AND FEEDER LEGEND	
FEEDER NO.	CONDUIT AND WIRE
A2	1/2" - #12 & #12 GND.
A3	3/4" - 3 #12 & 1 #12 GND.
B1	3/4" - 2 #10 & 1 #10 GND.
B2	3/4" - 3 #10 & 1 #10 GND.
B3	3/4" - 4 #10 & 1 #10 GND.
C1	3/4" - 2 #8 & 1 #10 GND.
C2	1" - 3 #8 & 1 #10 GND.
C3	1" - 4 #8 & 1 #10 GND.
D1	1" - 2 #8 & 1 #10 GND.
D2	1" - 3 #8 & 1 #10 GND.
D3	1 1/4" - 4 #6 & 1 #10 GND.
E1	1" - 2 #4 & 1 #8 GND.
E2	1 1/4" - 3 #4 & 1 #8 GND.
E3	1 1/4" - 4 #4 & 1 #8 GND.
F2	1 1/4" - 3 #3 & 1 #8 GND.
F3	1 1/4" - 4 #3 & 1 #8 GND.
G2	1 1/4" - 3 #2 & 1 #8 GND.
G3	1 1/2" - 4 #2 & 1 #8 GND.
H2	1 1/2" - 3 #1 & 1 #8 GND.
H3	2" - 4 #1 & 1 #8 GND.
K1	2" - 3 #1/8 & 1 #8 GND.
K2	2" - 4 #1/8 & 1 #8 GND.
L1	2" - 3 #2/8 & 1 #8 GND.
L2	2" - 4 #2/8 & 1 #8 GND.
M1	2" - 3 #3/8 & 1 #8 GND.
M2	2 1/2" - 4 #3/8 & 1 #8 GND.
M3	2" - 3 #4/8 & 1 #4 GND.
N2	2 1/2" - 4 #4/8 & 1 #4 GND.
O1	2 1/2" - 3 #250MCM & 1 #4 GND.
O2	3" - 4 #250MCM & 1 #4 GND.
P1	3" - 3 #350MCM & 1 #4 GND.
P2	3" - 4 #350MCM & 1 #4 GND.
Q1	3" - 3 #500MCM & 1 #3 GND.
Q2	3 1/2" - 4 #500MCM & 1 #3 GND.
R1	2 PARALLEL 2 1/2" - 3 #250MCM & 1 #2 GND.
R2	2 PARALLEL 3" - 4 #250MCM & 1 #2 GND.
S1	2 PARALLEL 3" - 3 #350MCM & 1 #1 GND.
S2	2 PARALLEL 3" - 4 #350MCM & 1 #1 GND.
T1	2 PARALLEL 3" - 3 #500MCM & 1 #1/8 GND.
T2	2 PARALLEL 3 1/2" - 4 #500MCM & 1 #1/8 GND.
U2	3 PARALLEL 3 1/2" - 4 #500MCM & 1 #2/8 GND.
V2	4 PARALLEL 3" - 4 #350MCM & 1 #3/8 GND.
AA	AS NOTED ON PLANS

LOAD SUMMARY				
PANEL 105B	- 480 VOLTS -	3 PHASE		
LOAD TYPE	CONNECTED K.W.	DEMAND FACTOR	DEMAND K.W.	PHASE AMPS
LIGHTING	358.8	1.00	358.8	429.4
RECEP.	1890.7	0.51	850.4	1023.3
HEATING	282.4	0.0	0.0	0.0
COOLING	932.5	1.00	932.5	1122.1
KITCHEN	258.0	0.65	167.7	201.8
MOTORS	372.8	1.00	372.8	448.6
MISC.	129.9	1.00	129.9	156.3
TOTAL	4023.1	0.70	280.1	3381.5
MINIMUM FEEDER AMPS				= 3381.5
FEEDER AMPS USED				= 3800



WEST CAMPUS LIVING/LEARNING COMPLEX
ALABAMA A&M UNIVERSITY
SMITH, KRANER, TOMBLIN
& ASSOCIATES
P.C. ARCHITECTS, P.C.
ALABAMA
FLORENCE
HUNTSVILLE

JOB NUMBER
94884

SHEET / TOTAL
18 / 18

SHEET TITLE
ELECTRICAL
LEGEND &
SCHEDULES

SHEET NUMBER
E-18
OF
18