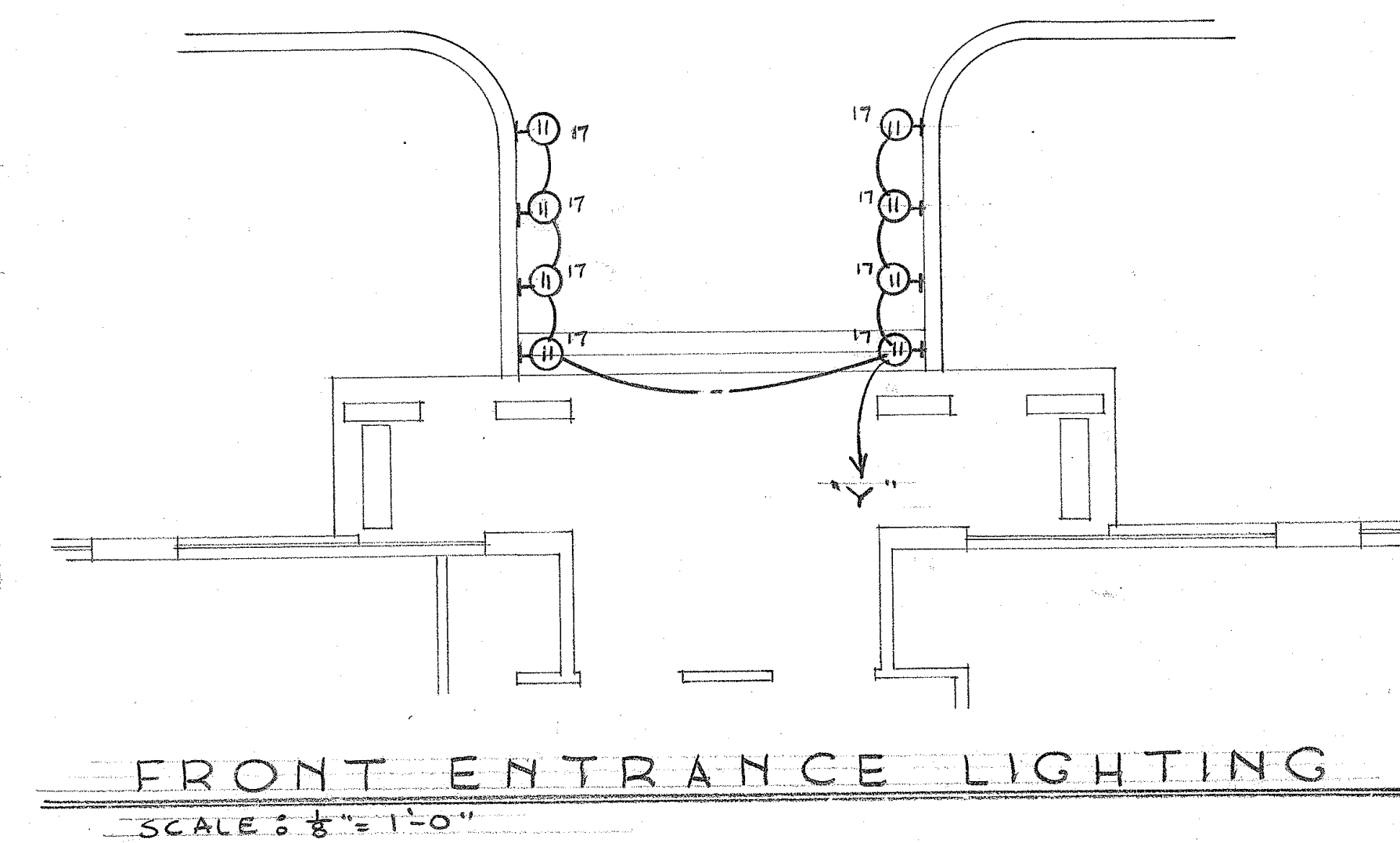




FRONT ENTRANCE LIGHTING

SCALE: $\frac{1}{8}" = 1'-0"$

PANEL "IA"

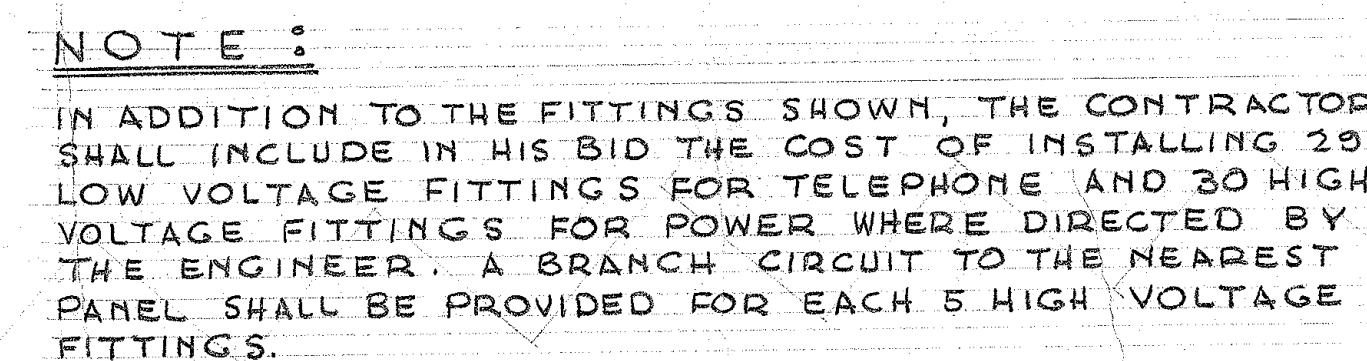
208Y/120 VOLTS, 225 AMP. MAIN
LUGS, FLUSH MOUNTED.
30 - 20A, 1 POLE BRANCH ACBS
3 - SPACES (POSITION 8, 9, & 10)

PANEL "13"

208Y/120 VOLTS, 22.5 AMP, MAIN
LUGS, FLUSH MOUNTED.
42-20A, 1 POLE BRANCH ACBS
CIRCUIT 20 TO HAVE HANDLE LOCKING
DEVICE.

GROUND FLOOR • LIGHTING PLAN

SCALE: $\frac{1}{8}" = 1'-0"$



GROUND FLOOR - UNDERFLOOR RACEWAYS, OUTLETS & FIRE ALARM

SCALE: $\frac{1}{8}'' = 1'-0''$

TERRITORY OF HAWAII
HIGHWAY DEPARTMENT BUILDING
PUNCEBOWL & QUEEN ST. HONOLULU, T.H.
GROUND FLOOR ELECTRIC PLAN

DRAWN BY NAKAGAWA

SCALE AS SHOWN

DATE FEB. 28, 1958

LAW & WILSON
ARCHITECTS & ENGINEERS
P. O. BOX 3288 • HONOLULU, T. H.
JOB NO. 747-01

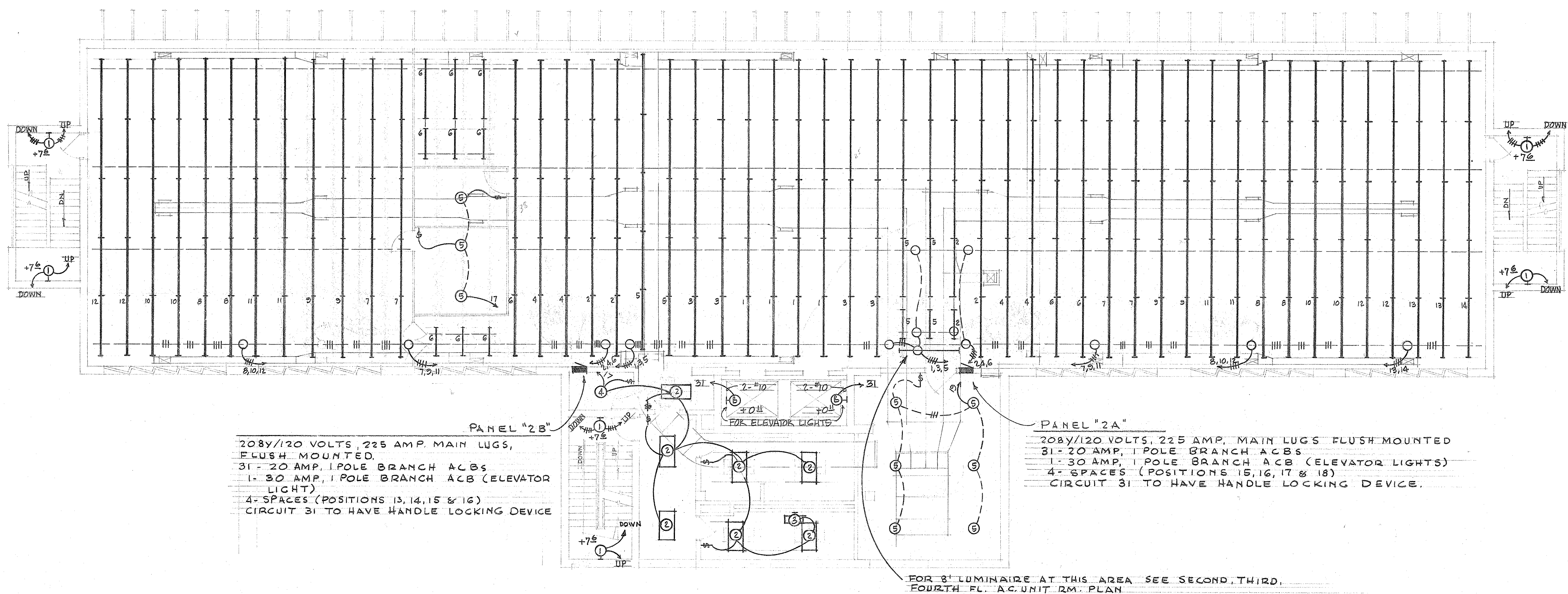
JOB NO.	
---------	--

5994-39

SHEET
22

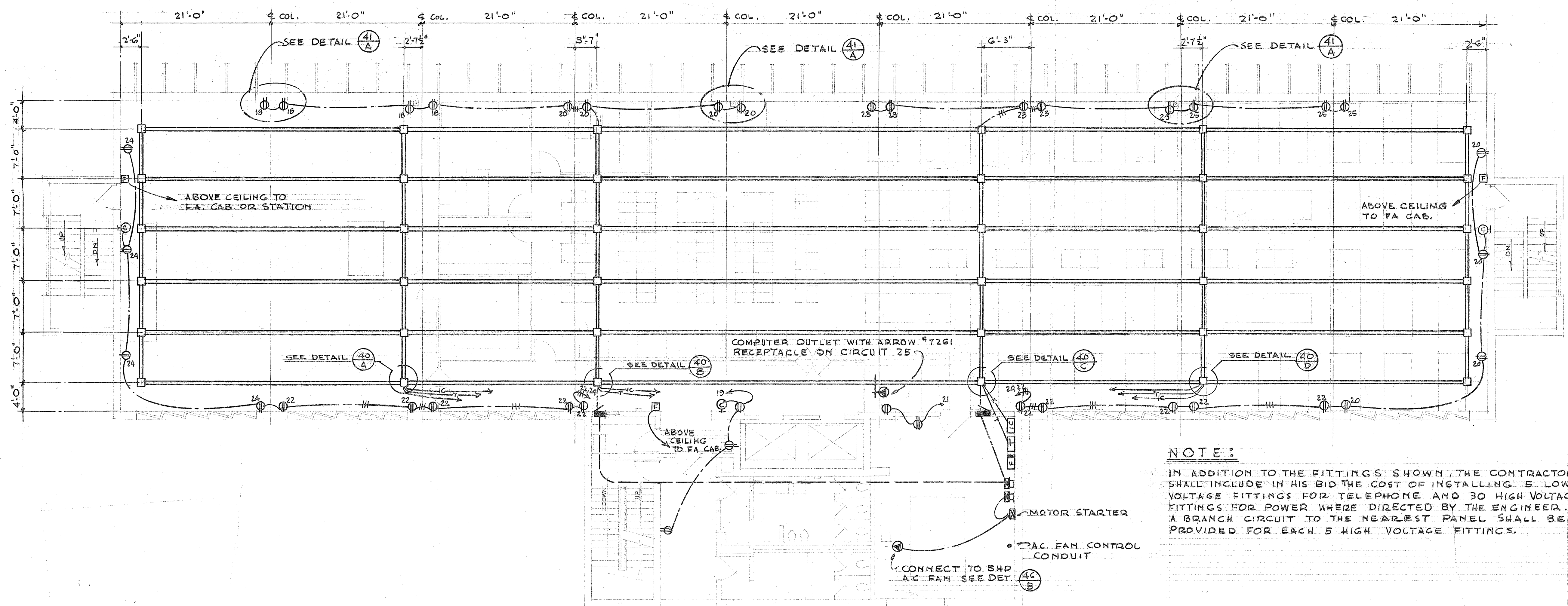
39
25-45

OF 46



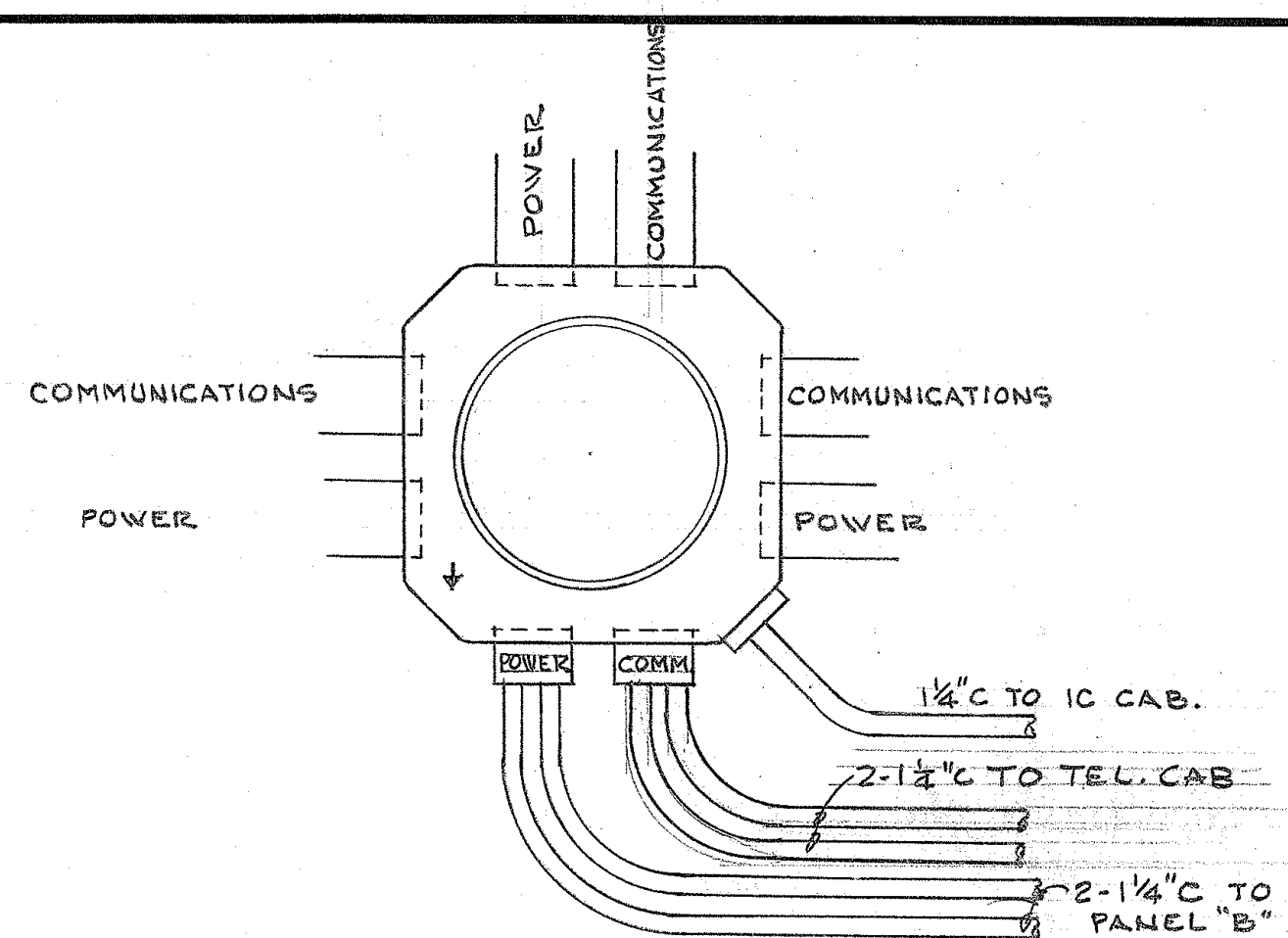
SECOND FLOOR - LIGHTING PLAN

SCALE 5/8" = 1'-0"

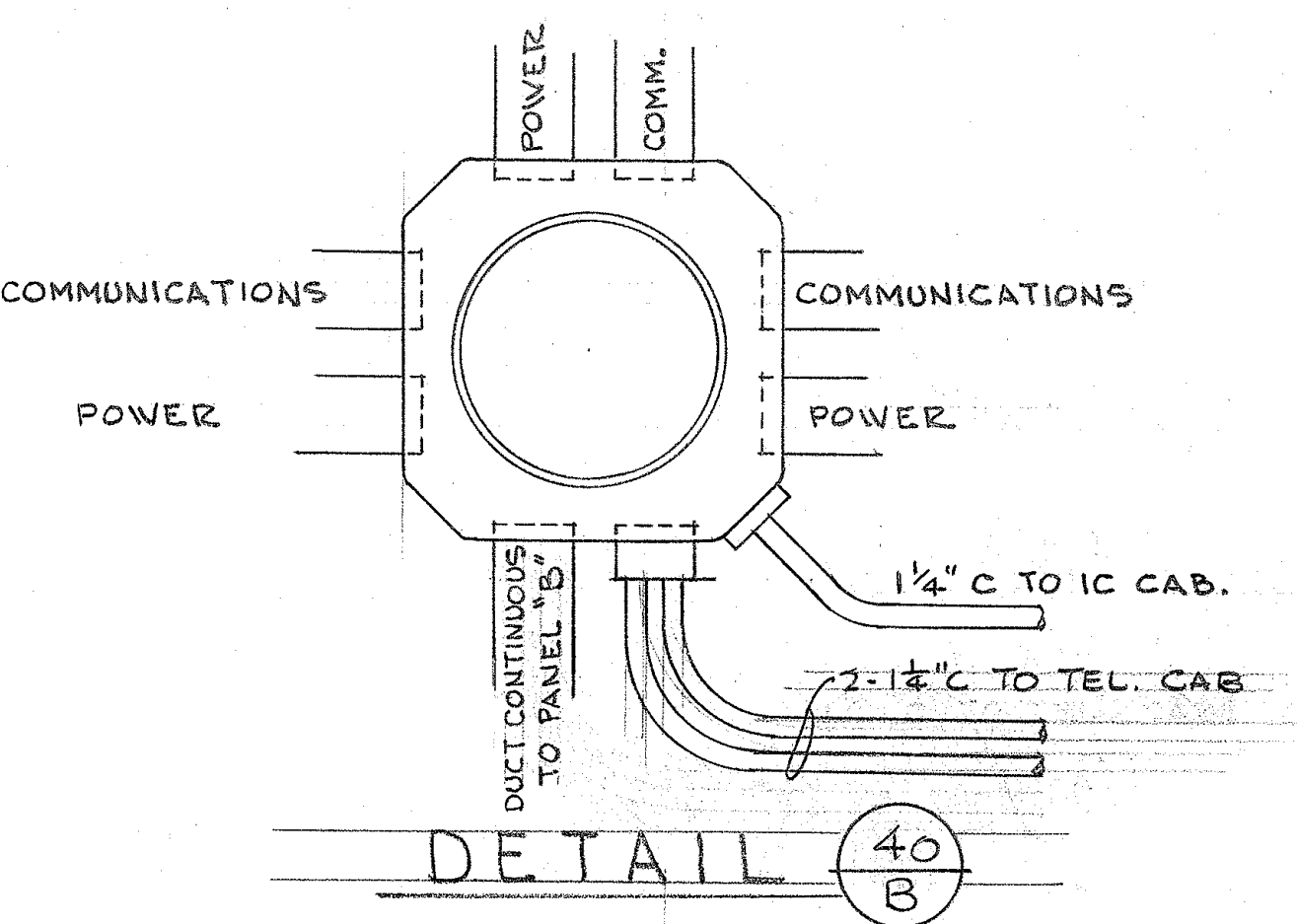


SECOND FLOOR - UNDERFLOOR RACEWAY, OUTLETS & FIRE ALARM

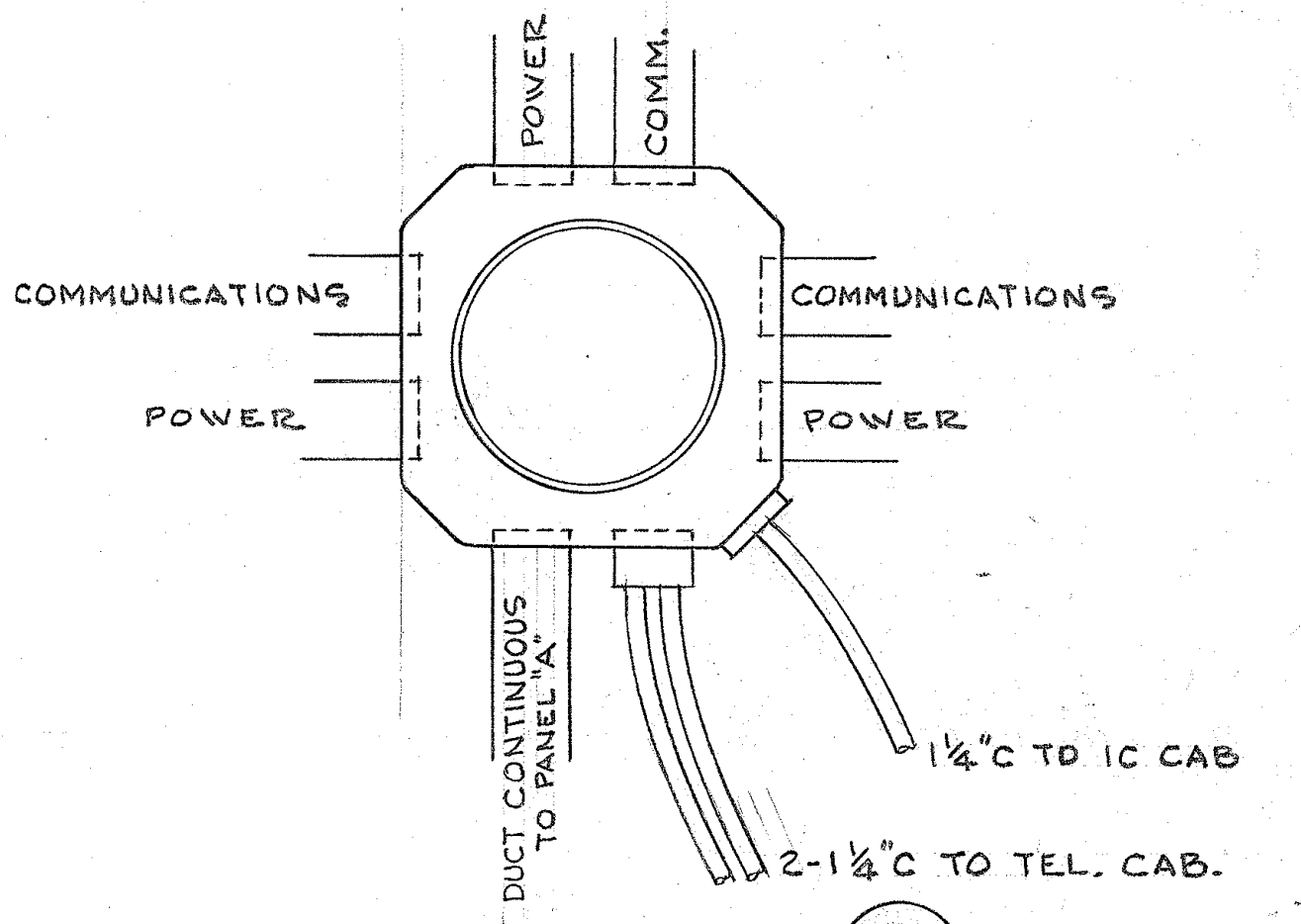
SCALE 5/8" = 1'-0"



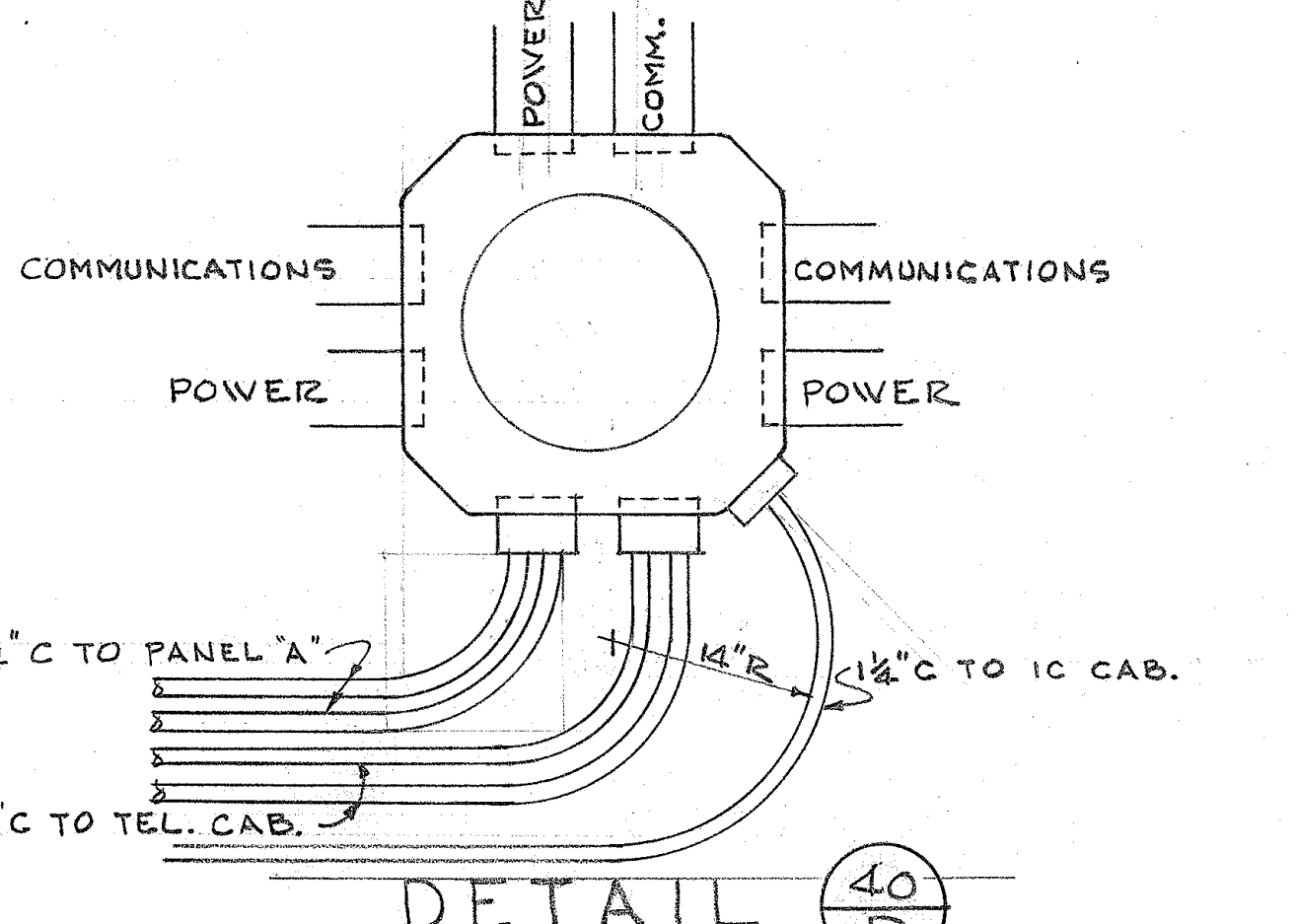
DETAIL 40A



DETAIL 40B

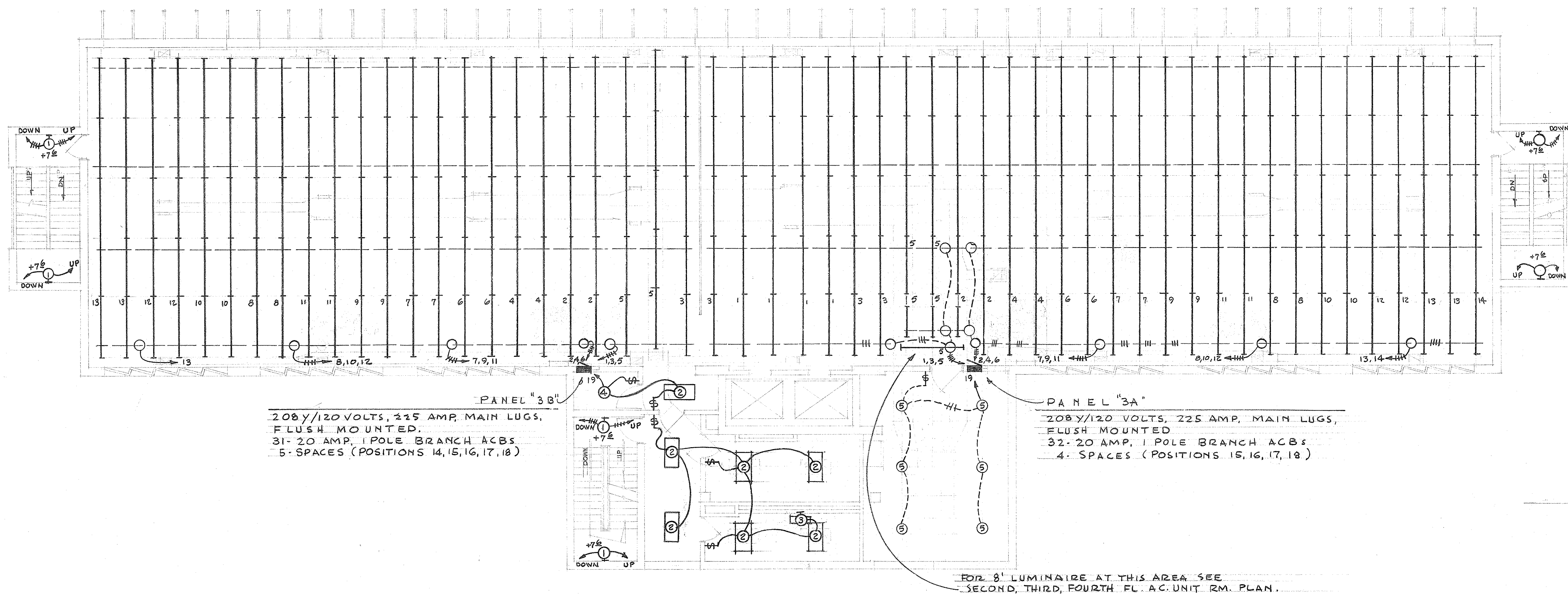


DETAIL 40C



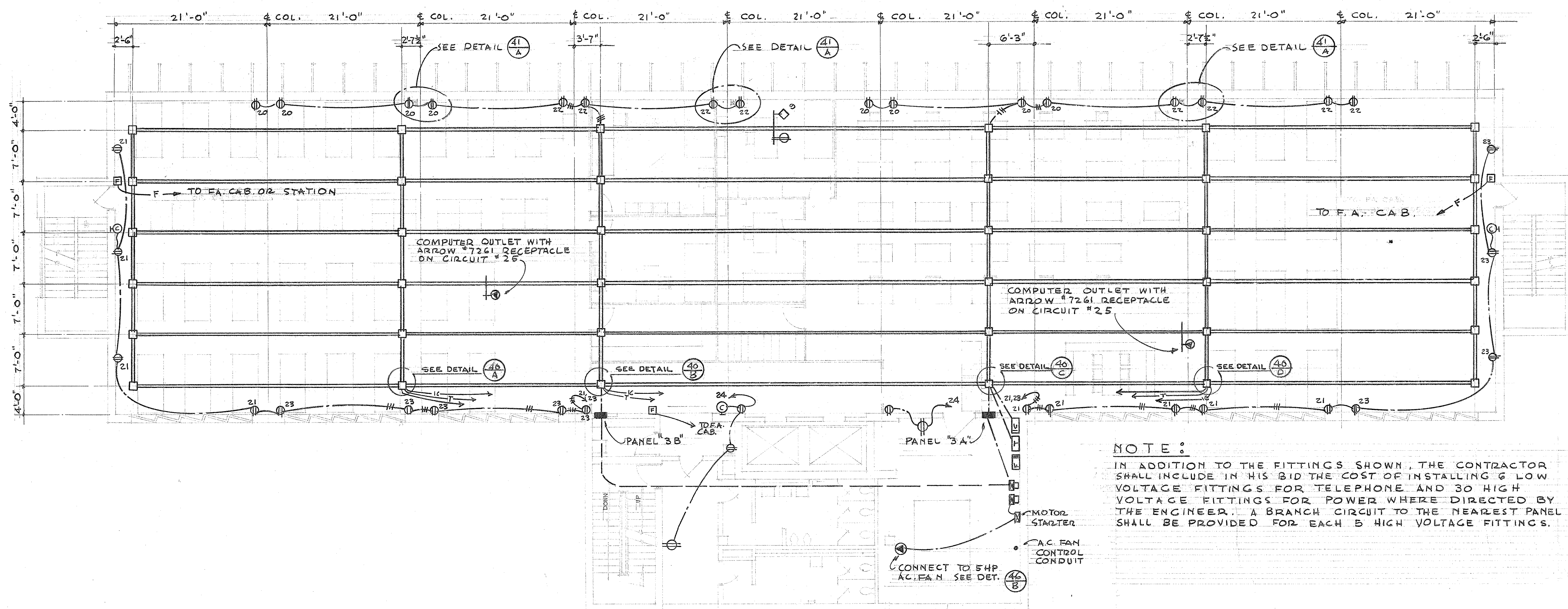
DETAIL 40D

TERRITORY OF HAWAII		JOB NO.
HIGHWAY DEPARTMENT BUILDING		5994-40
PUNCHBOWL & QUEEN ST. HONOLULU, T.H.		SHEET
SECOND FLOOR ELECTRIC PLAN		40
DRAWN BY NAKAGAWA		OF 40
SCALE AS SHOWN		
DATE FEB. 28, 1953		
LAW & WILSON		
ARCHITECTS & ENGINEERS		
P.O. BOX 3288 HONOLULU, T.H.		
JOB NO. 747-01		



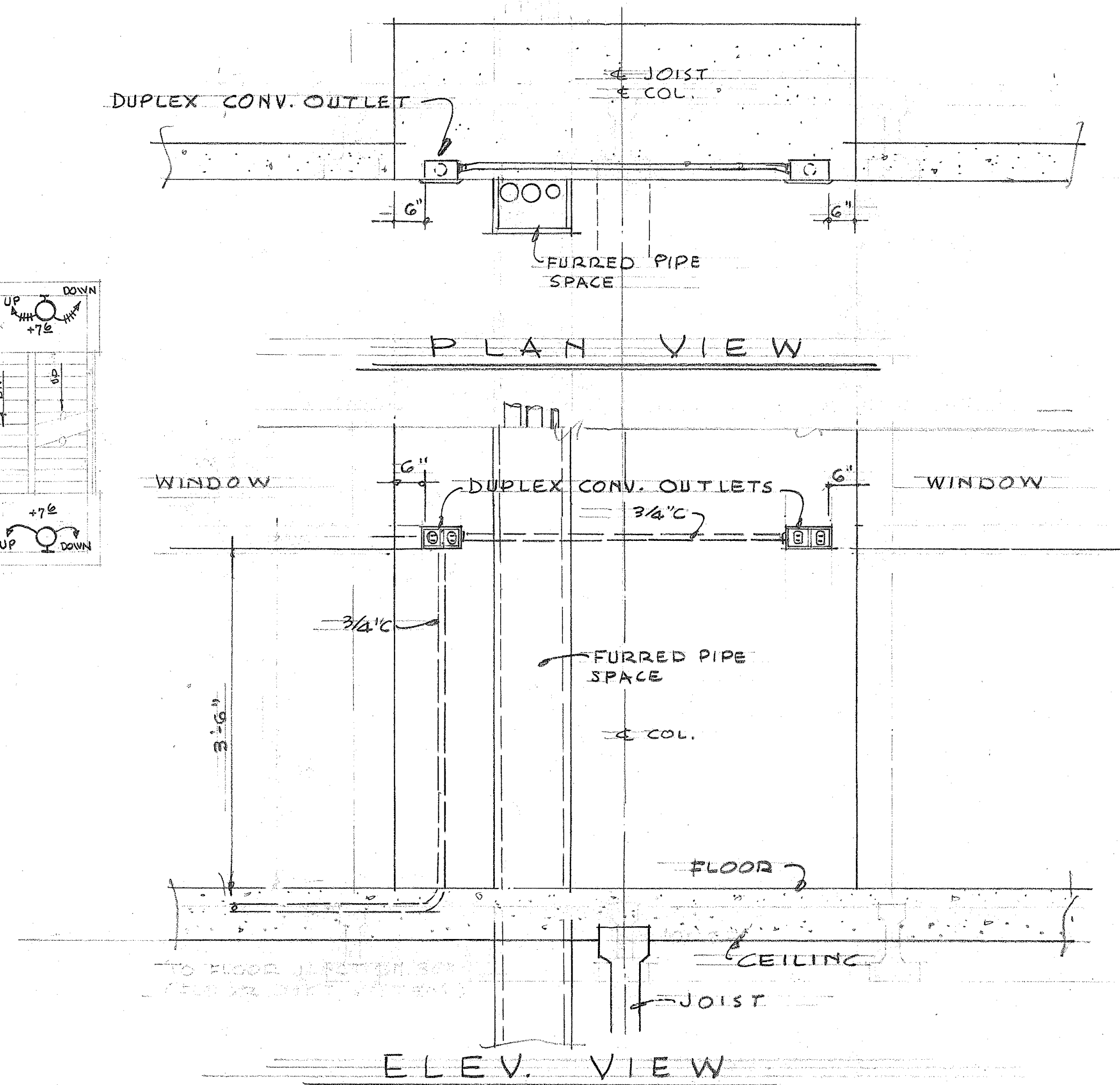
THIRD FLOOR - LIGHTING PLAN

SCALE: $\frac{1}{8}" = 1'-0"$



THIRD FLOOR - UNDERFLOOR RACEWAYS, OUTLETS & FIRE ALARM

SCALE: $\frac{1}{8}" = 1'-0"$

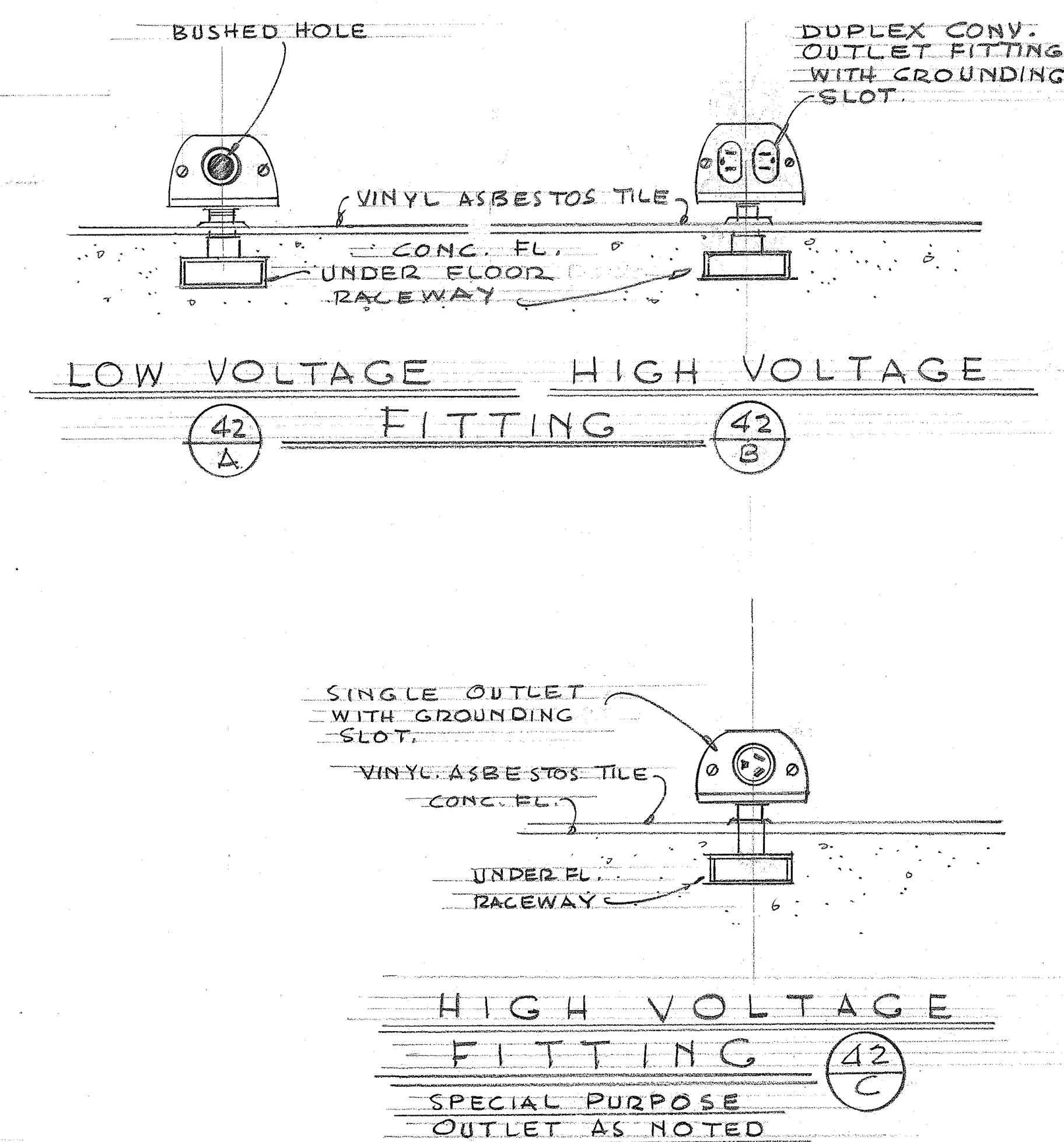


TYPICAL DUPLEX CONV. OUTLET
BOX ON WALL COL. DETAIL

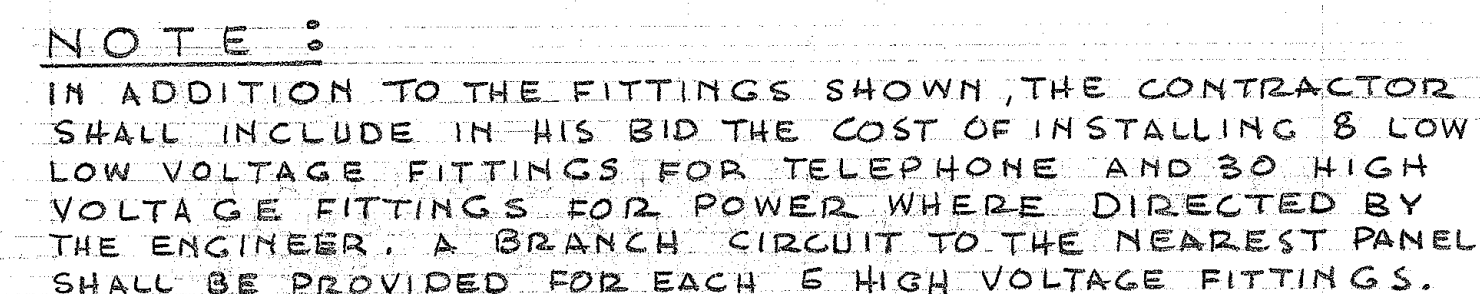
SCALE: $\frac{1}{4}" = 1'-0"$

41
A

TERRITORY OF HAWAII HIGHWAY DEPARTMENT BUILDING PUNCHBOWL & QUEEN ST. HONOLULU, T. H.		
THIRD FLOOR ELECTRIC PLAN		
DRAWN BY NAKAGAWA	LAW & WILSON ARCHITECTS & ENGINEERS P. O. BOX 3288 HONOLULU, T. H.	JOB NO. 5994-41
SCALE AS SHOWN		SHEET 41
DATE FEB. 28, 1958		OF 46

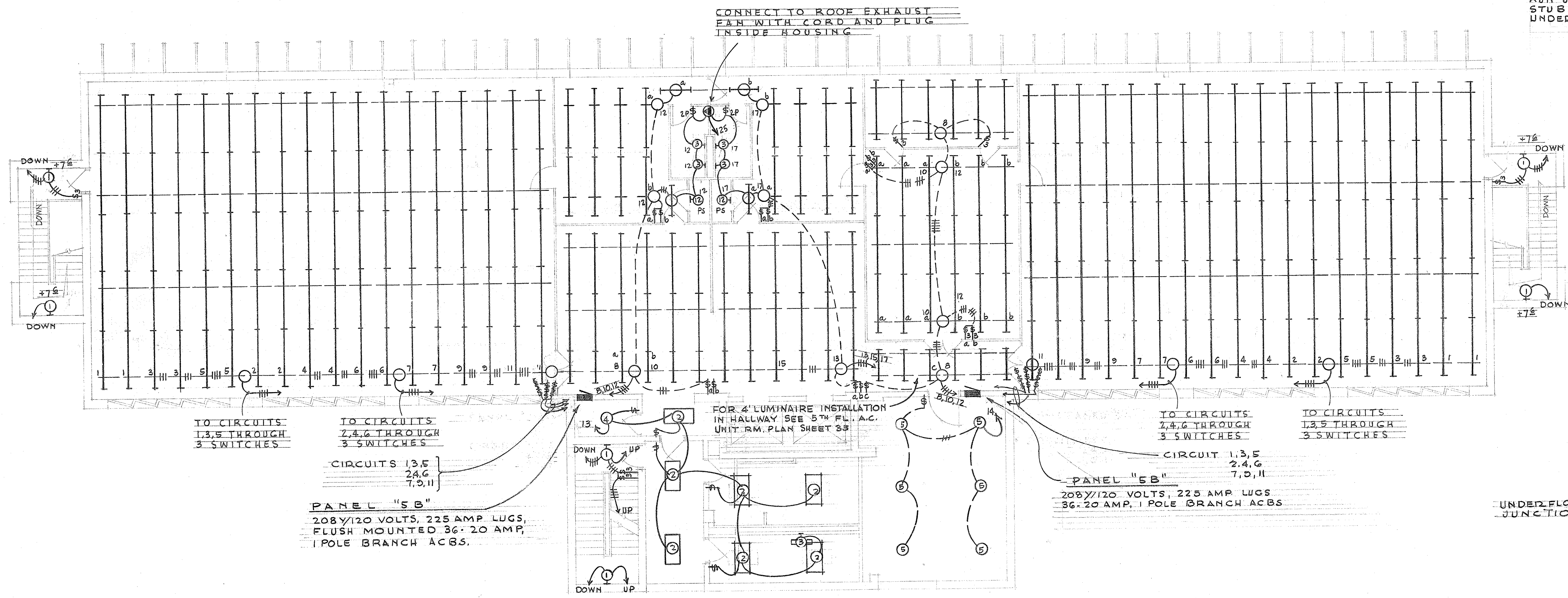


FOURTH FLOOR • LIGHTING PLAN

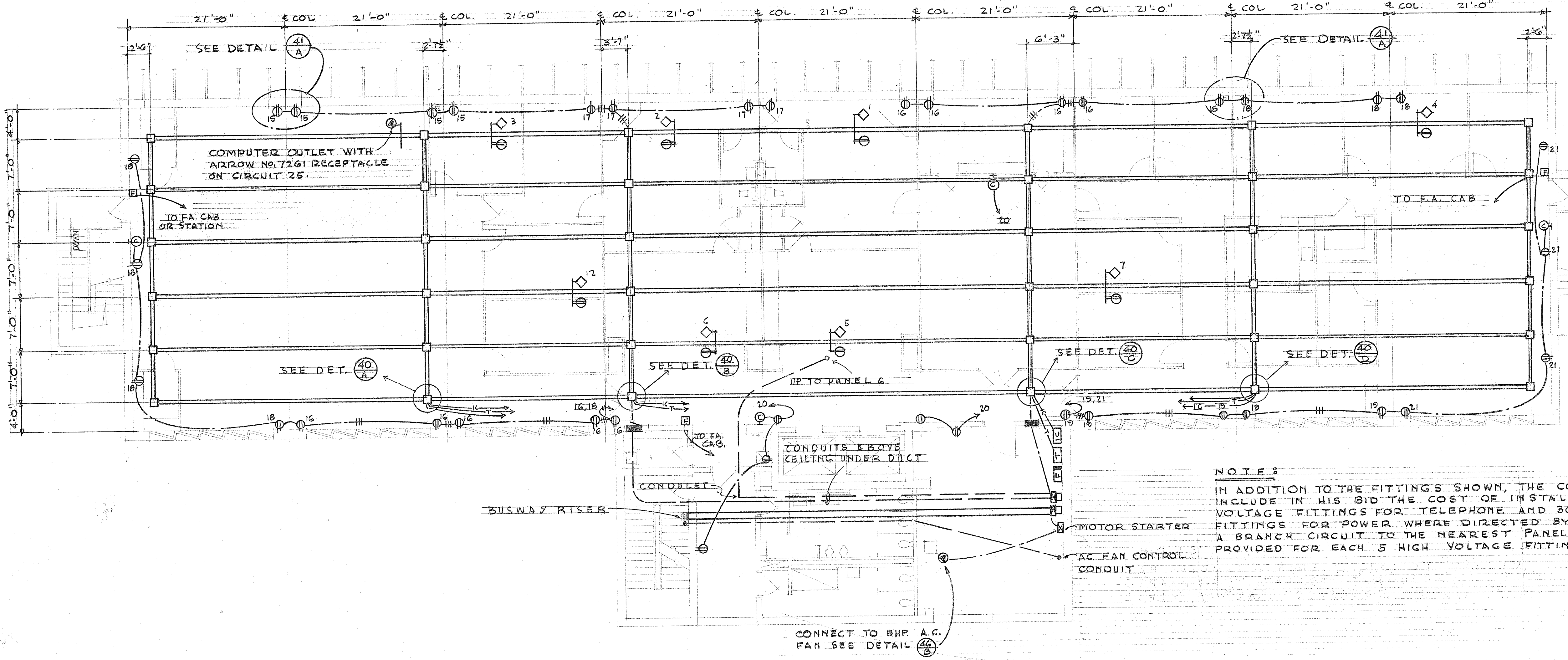


FOURTH FLOOR • UNDERFLOOR RACEWAYS, OUTLETS & FIRE ALARM

TERRITORY OF HAWAII HIGHWAY DEPARTMENT BUILDING PUNAHOWA & QUEEN ST. HONOLULU, T.H.	
FOURTH FLOOR ELECTRIC PLAN	
DRAWN BY NAKAGAWA SCALE AS SHOWN DATE FEB. 28, 1958	L & WILSON ARCHITECTS & ENGINEERS P. O. BOX 3288 • HONOLULU, T. H. JOB NO. 747-01
	JOB NO. 5994-4 SHEET 42 OF 46

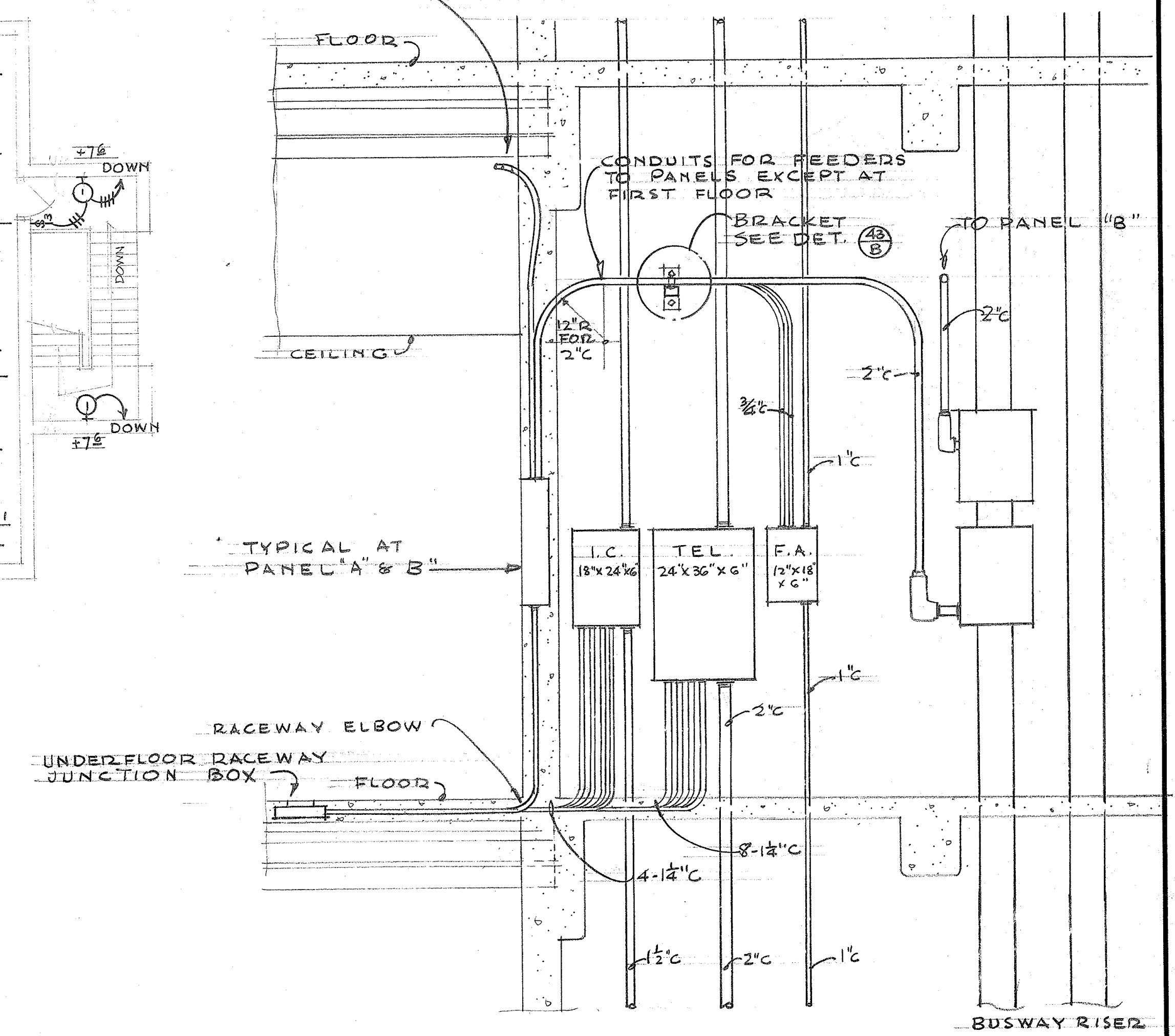


FIFTH FLOOR - LIGHTING PLAN
SCALE: 1/8" = 1'-0"

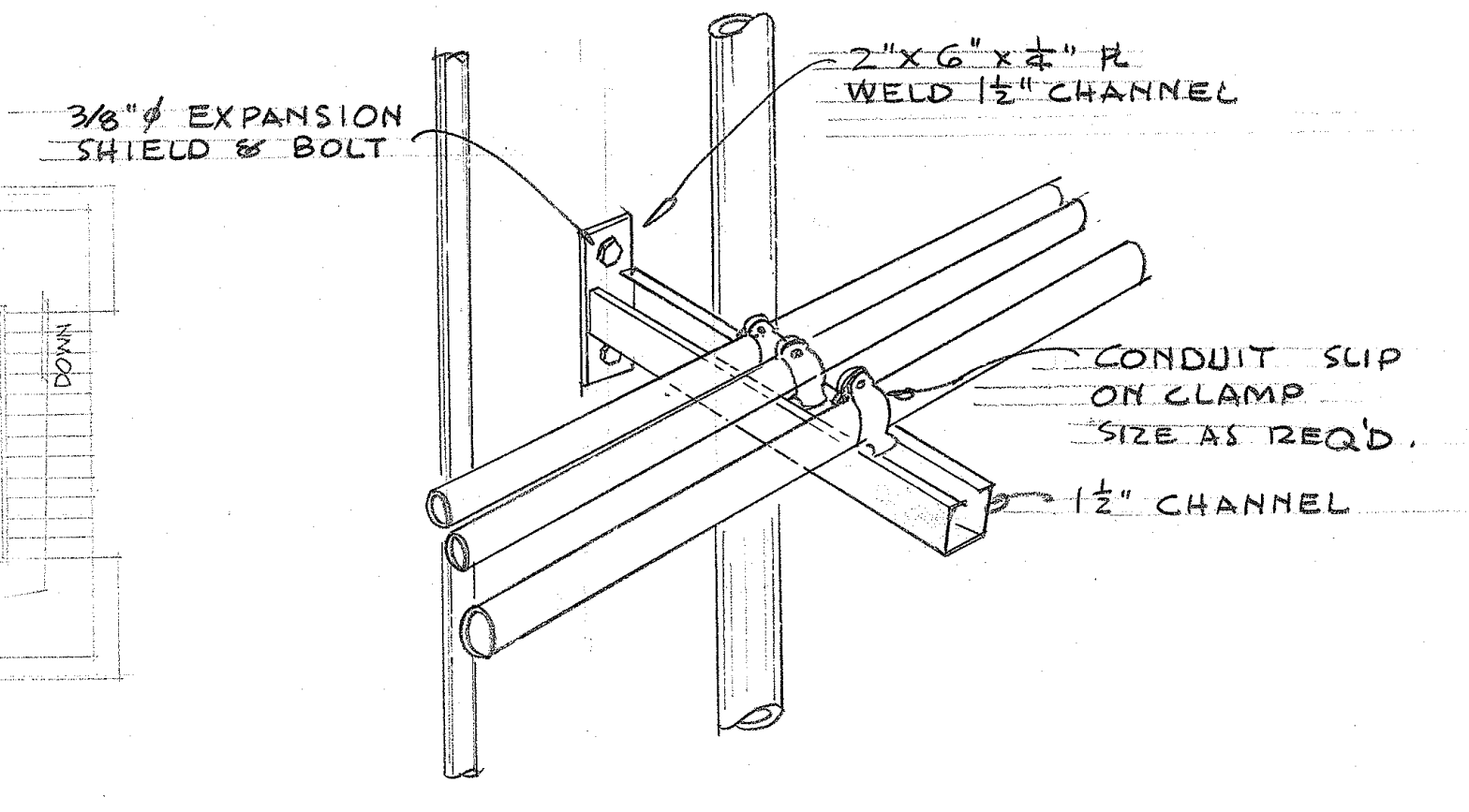


FIFTH FLOOR - UNDER FLOOR RACEWAY, OUTLETS & FIRE ALARM
SCALE: 1/8" = 1'-0"

IN ADDITION TO CONDUITS REQUIRED FOR LIGHTING BRANCH CIRCUITS, 3 EMPTY 3/4" CONDUITS SHALL BE RUN UP FROM EACH LTG. PANEL & STUBBED OUT IN FURRED SPACE UNDER BEAM.



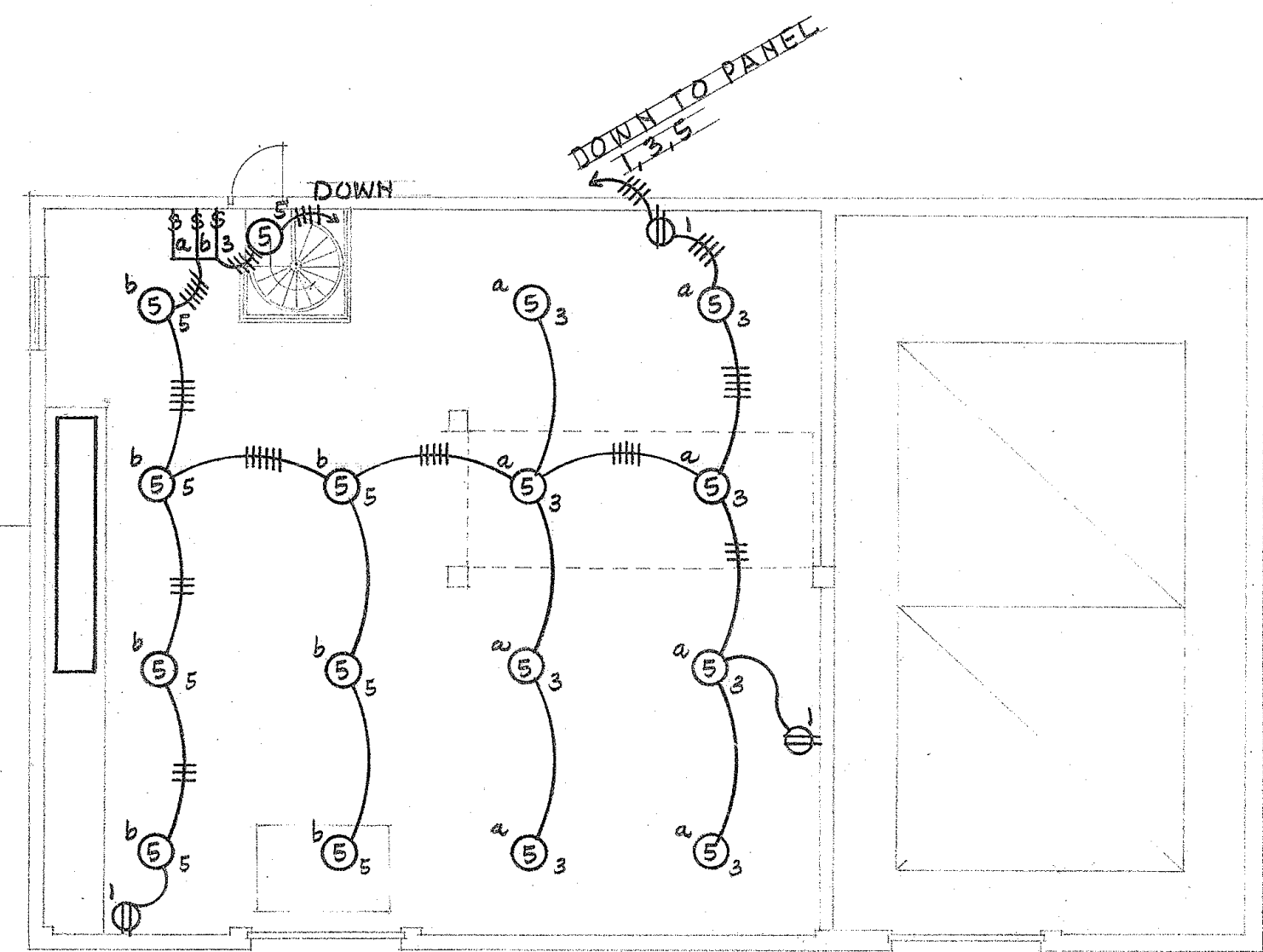
TYPICAL CONNECTIONS TO PANELBOARD DETAIL (43)
SCALE: 1/2" = 1'-0"



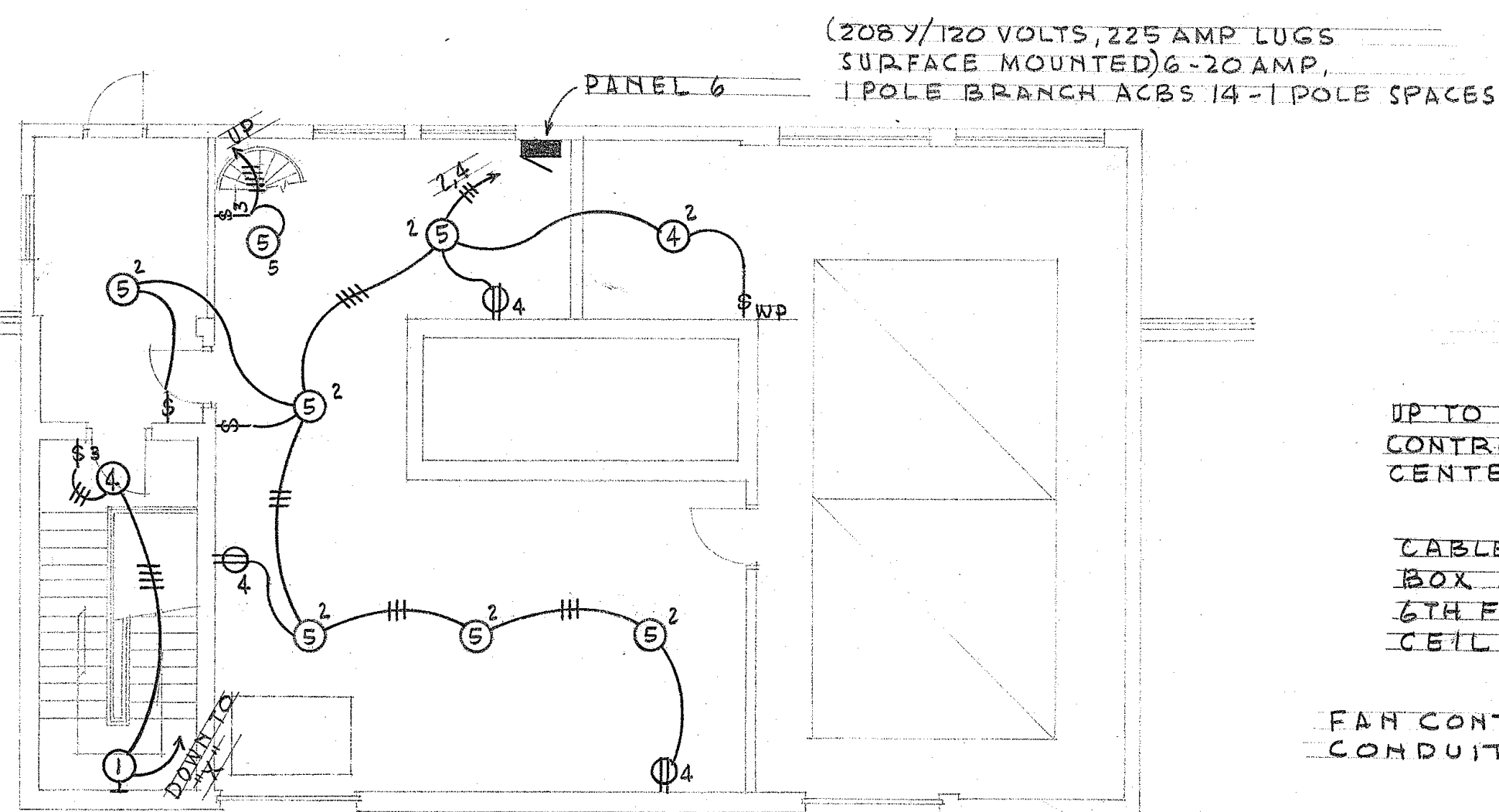
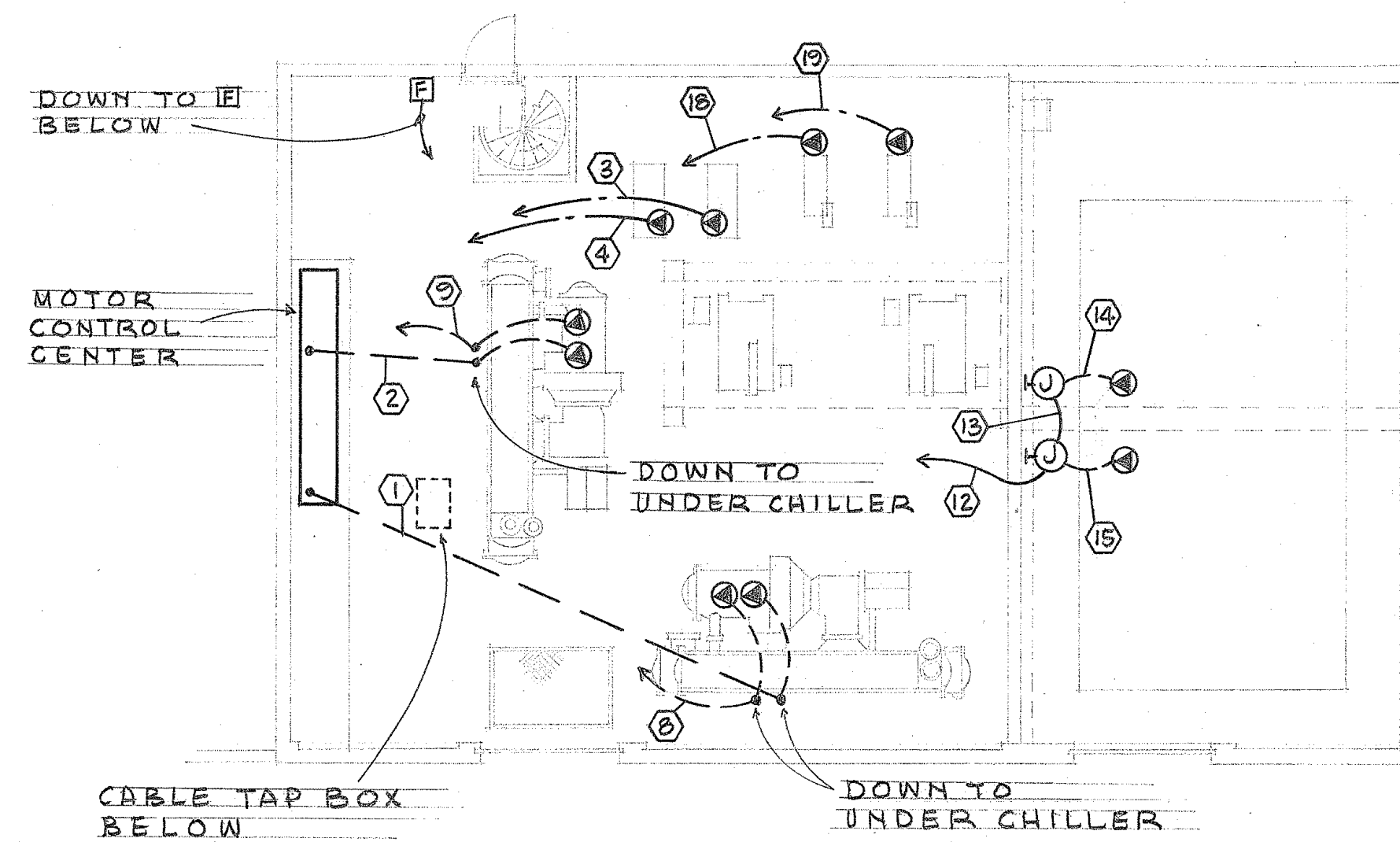
CONDUIT WALL BRACKET DETAIL (43)
NOT TO SCALE

NOTES
IN ADDITION TO THE FITTINGS SHOWN, THE CONTRACTOR SHALL INCLUDE IN HIS BID THE COST OF INSTALLING 10 LOW VOLTAGE FITTINGS FOR TELEPHONE AND 30 HIGH VOLTAGE FITTINGS FOR POWER WHERE DIRECTED BY THE ENGINEER. A BRANCH CIRCUIT TO THE NEAREST PANEL SHALL BE PROVIDED FOR EACH 5 HIGH VOLTAGE FITTINGS.

TERRITORY OF HAWAII		JOB NO. 5394-43	
HIGHWAY DEPARTMENT BUILDING		SHEET 43	
FINCHCOWL & QUEEN ST. HONOLULU, T.H.		OF 46	
FIFTH FLOOR ELECTRIC PLAN			
DRAWN BY NAKAGAWA		LAW & WILSON	
SCALE AS SHOWN		ARCHITECTS & ENGINEERS	
DATE FEB. 28, 1952		P.O. BOX 3288 HONOLULU, T.H.	
		JOB NO. 747-01	



MACHINERY RM. LIGHTING PLAN.
SCALE: 1/8" = 1'-0"



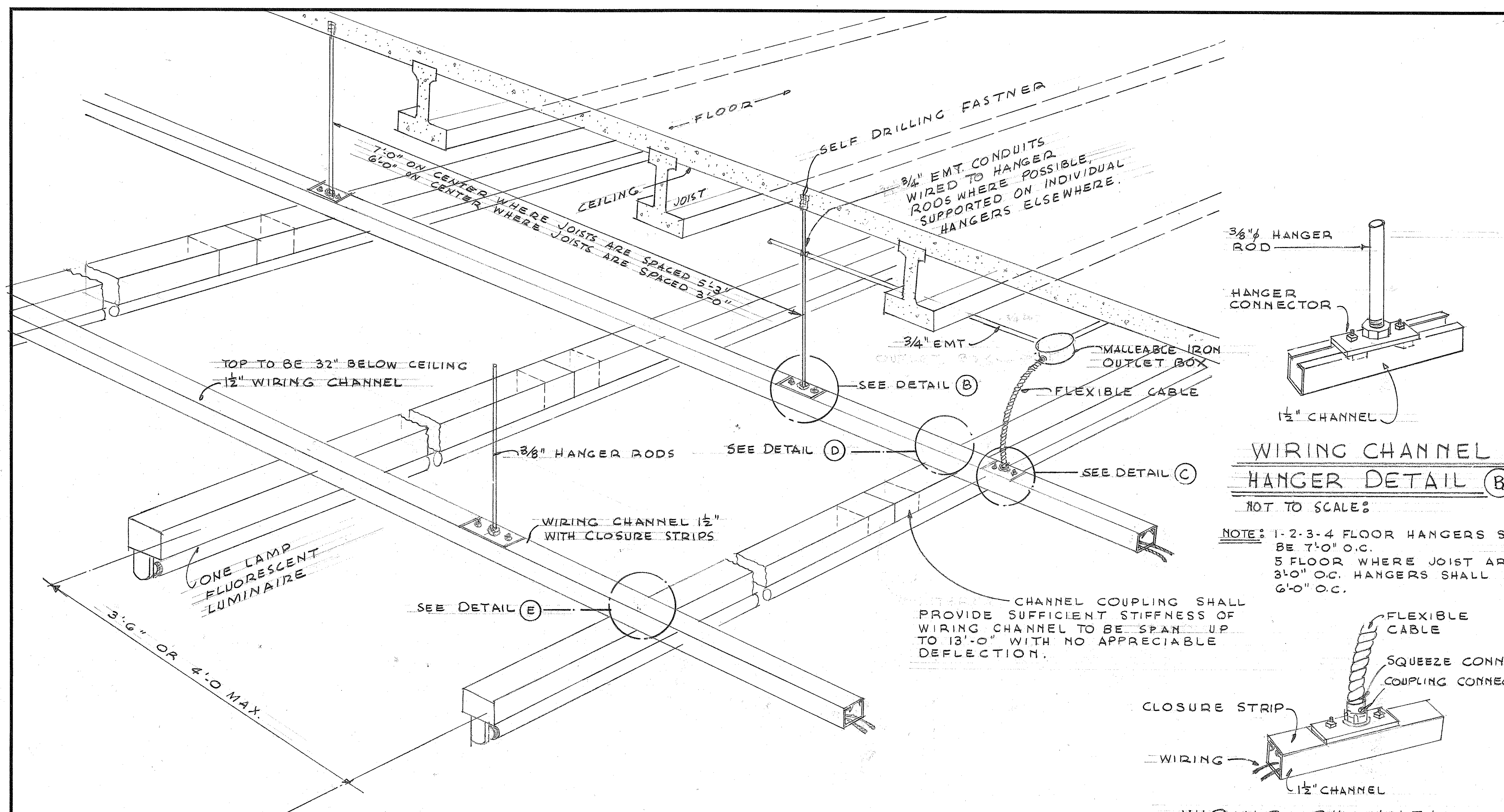
ROOF LIGHTING PLAN.
SCALE: 1/8" = 1'-0"

MACHINERY CONDUIT & CONDUCTOR SCHEDULE					
CONDUIT NUMBER	CONDUCTORS AND SIZE	FROM	TO	REMARKS	DESIGN HP (SEE NOTE 1)
1	2-250 MCM RHW, 3/4" C	MOTOR CONTROL CENTER	COMPRESSOR MOTOR TERMINAL BOX	ROUTE ON CEILING AND IN ACCORD. WITH MEGR'S DRAWING	100
2	2-250 MCM RHW, 3/4" C	"	"	"	100
3	3-#8 RHW, 3/8" C	"	CHILLED WATER PUMP	ROUTE IN FLOOR	10
4	3-#8 RHW, 3/8" C	"	"	"	10
5	6-#8 RHW, 1/2" C	"	WALL J.B.	RUN IN 6TH FLOOR CEILING	
6	3-#8 RHW, 3/8" C	WALL J.B.	COND. WATER PUMP	"	10
7	"	"	"	"	10
8	6-#12 RHW, 1" C	MOTOR CONTROL CENTER	OIL PUMP PURGE PUMP	ROUTE ON CEILING AND IN ACCORD. WITH MEGR'S DRAWING	5
9	"	"	"	"	5
10	2-3" C, EACH WITH 3-300 MCM RH	CABLE TAP BOX	MAIN BREAKER MOTOR CONTROL CENTER	ROUTE ON 6TH FLOOR CEILING	
11	3-350 MCM RHW, 3" C	CABLE TAP BOX	COMBINATION REDUCED VOLTAGE STARTER	"	
12	6-#12 RHW, 1" C	MOTOR CONTROL CENTER	WALL J.B.	ROUTE IN MACHINE RM CEILING	1
13	3-#12 RHW, 3/4" C	WALL J.B.	WALL J.B.	ROUTE IN WALL	
14	3-#12 RHW, 3/4" C LIQUID TIGHT FLEX	WALL J.B.	COOLING TOWER FAN MOTOR	"	5
15	"	"	"	"	5
16	3-#12 RHW, 3/4" C	MOTOR CONTROL CENTER	WALL J.B.	ROUTE IN MACHINE RM CEILING	
17	3-#12 RHW, 3/4" C	WALL J.B.	EXH. FAN MOTOR	ROUTE IN MACHINE RM FLOOR	1/2
18	3-#8, 2-#10, RHW-1 1/2" C	MOTOR CONTROL CENTER	ELEVATOR CONTROLLER	ROUTE IN MACHINE RM FLOOR FROM ELEVATOR ACB AND CONTROL ACB	10
19	3-#8, 2-#10, RHW-1 1/2" C	MOTOR CONTROL CENTER	"	"	10

NOTE 1. CONDUITS AND CONDUITS SHOWN ARE BASED ON MOTOR HORSE-POWERS THAT WILL SATISFY DESIGN CONDITIONS. CONTRACTOR SHALL CHECK THESE AGAINST MOTORS ACTUALLY SUPPLIED AND INSTALL CONDUCTORS AND CONDUIT REQ'D.

NOTE 2. CERTAIN CONTROL WIRING WILL BE FACTORY INSTALLED IN MOTOR CONTROL CENTER AND ON COMPRESSOR EQUIPMENT. CONTRACTOR SHALL DETERMINE CONTROL INTERCONNECTION REQUIREMENTS FROM EQUIPMENT SUPPLIERS AND SHALL FURNISH AND INSTALL AS REQUIRED.

TERRITORY OF HAWAII		JOB NO.
HIGHWAY DEPARTMENT BUILDING		5994-44
PUNCHBOWL & QUEEN ST. HONOLULU, T.H.		SHEET
ROOF & MACHINERY ROOM ELECTRIC PLAN		44
SYMBOLS & DETAILS		OF 46
DRAWN BY NAKAGAWA	LAW & WILSON	
SCALE AS SHOWN	ARCHITECTS & ENGINEERS	
DATE FEB. 18, 1958	P.O. BOX 3288 HONOLULU, T. H.	
	JOB NO. 747-01	



NOTE: EXISTING SUPPORTING CHANNELS ON 3RD FLOOR OF HAWAIIAN TRUST BLDG. THAT ARE COMPATIBLE WITH DETAILS SHOWN HERE MAY BE REUSED. ALL OTHERS SHALL BE REMOVED AND DELIVERED TO MAINTENANCE DEPT. AS DIRECTED BY ENGINEER.

ELECTRICAL LEGEND & NOTES

- NUMERAL IN CIRCLE OF LUMINAIRE SYMBOL CORRESPONDS TO LUMINAIRE NUMBER IN SPECIFICATIONS
- CEILING OUTLET WITH FLUORESCENT LUMINAIRE.
- FLUORESCENT LUMINAIRE SERVED THROUGH ADJOINING LUMINAIRE.
- WALL OUTLET WITH FLUORESCENT LUMINAIRE.
- CEILING OUTLET WITH INCANDESCENT LUMINAIRE.
- WALL OUTLET WITH INCANDESCENT LUMINAIRE.
- SUPPORTING CHANNEL
- CONTINUOUS 8' ONE LAMP FLUORESCENT LUMINAIRE ABOVE SUSPENDED CEILING. SEE DETAIL (A)
- SUPPORT CHANNEL WITH WIRING
- OUTLET BOX
- HIGH VOLTAGE FITTING - SPECIAL AS INDICATED.
- LOW VOLTAGE FITTING INTER-COMMUNICATION FLOOR OUTLET (NUMERAL INDICATES STATION - SEE SCHEDULE.)
- HIGH VOLTAGE FITTING DUPLEX CONV. OUTLET WITH GROUNDING SLOT - FLOOR OUTLET
- POWER UNDER FLOOR SYSTEM DUCT COMMUNICATION UNDERFLOOR SYSTEM DUCT
- 2 WAY UNDER FLOOR SYSTEM JUNCTION BOX
- IC CONDUIT HOMERUN
- TEL CONDUIT HOME RUN
- POWER CONDUIT HOME RUN
- BLANK OUTLET
- WALL JUNCTION BOX
- JUNCTION BOX
- WALL CLOCK OUTLET +18"
- DUPLEX CONVENIENCE OUTLET +3"
- WP DENOTES WEATHER PROOF
- +18" DENOTES T'-G" FROM FLOOR
- FIRE ALARM CONTROL CABINET.
- FIRE ALARM PULL SWITCH WITH BELL ABOVE
- FIRE ALARM TERMINAL CABINET. 12"x18"x6"
- INTER-COMMUNICATION CABINET. 18"x24"x6"
- TELEPHONE CABINET. 24"x36"x6" (EXCEPT 1ST FL.)
- PLUG-IN CIRCUIT BREAKER
- BUSWAY RISER
- LIGHTING & POWER PANEL
- MOTOR CONTROLLER OR OTHER DEVICES AS INDICATED.
- FUSIBLE DISCONNECT SWITCH.
- SINGLE POLE SWITCH 20 AMP
- DOUBLE POLE SWITCH 20 AMP
- 3 WAY SWITCH 20 AMP
- 15 AMP SINGLE POLE INTERCHANGEABLE TYPE WALL SWITCHES GANGED VERTICALLY IN GROUPS OF 2 OR 3.
- SPECIAL PURPOSE OUTLET
- BUSWAY
- RISER
- BRANCH CIRCUIT IN CONDUIT CONCEALED IN FLOOR OR WALL. #12 AWG UNLESS NOTED.
- BRANCH CIRCUIT IN CONDUIT EXPOSED #12 AWG UNLESS NOTED.
- BRANCH CIRCUIT IN CONDUIT IN CEILING OR WALL. #12 AWG UNLESS NOTED.
- INTER-COMMUNICATION CONDUIT
- TELEPHONE CONDUIT

1. LOWER CASE LETTERS (a,b,c) ARE USED ON GANG SWITCHES TO INDICATE OUTLET CONTROLLED. NUMERAL USED AS SUBSCRIPTS ON OUTLETS INDICATE CIRCUIT TO WHICH EACH IS CONNECTED.

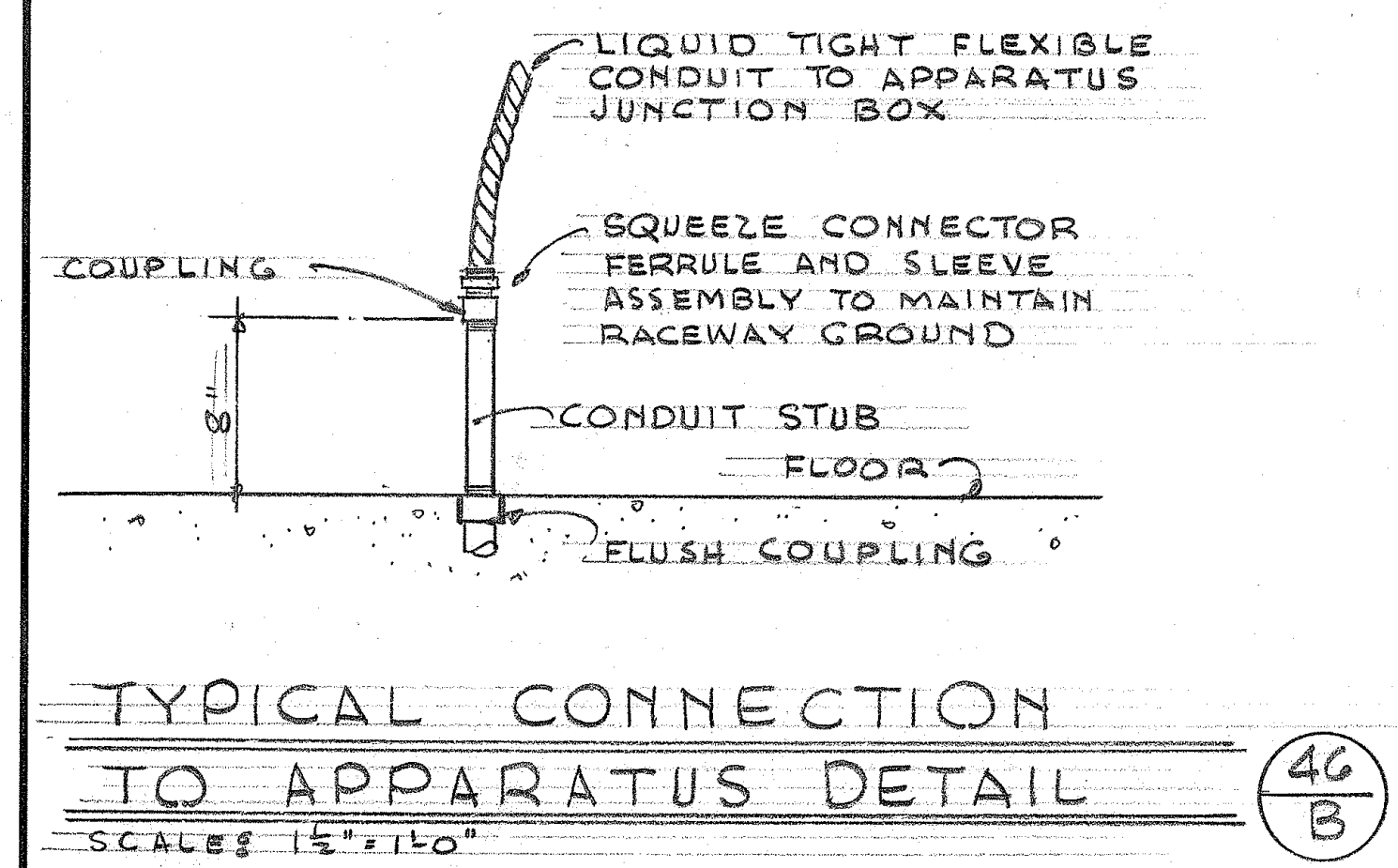
2. ANY CIRCUIT WITHOUT FURTHER DESIGNATION INDICATES A TWO WIRE CIRCUIT. FOR A GREATER NUMBER OF WIRES THE INDICATION IS BY "HASHMARKS" AS FOLLOWS; $\#\#$ 3 WIRES, $\#\#\#$ 4 WIRES, ETC.

FLUORESCENT LUMINAIRE HANGER DETAIL (46/A)

INTER COMMUNICATION SCHEDULE

STA. NO.		1	2	3	4	5	6	7	8	9	10	11	12
1	TERRITORIAL HIWAY ENGINEER	X	X	X	X	X	X	X	X	X	X	X	X
2	DEPUTY TERRITORIAL HIWAY ENGINEER	X	X	X	X	X	X	X	X	X	X	X	X
3	ADVANCE PLANNING ENGINEER	X	X	X	X	X	X	X	X	X	X	X	X
4	ADMINISTRATIVE ASST.-CHIEF ACCOUNT	X	X	X	X	X	X	X	X	X	X	X	X
5	TERRITORIAL HIWAY ENG. SECRETARY	X	X	X	X	X	X	X	X	X	X	X	X
6	DEPUTY TERR. HIWAY ENG. SECRETARY	X	X	X	X	X	X	X	X	X	X	X	X
7	PUBLIC RELATIONS OFFICER	X	X	X	X	X	X	X	X	X	X	X	X
8	HEAD HIWAY DESIGN ENGINEER	X	X	X	X	X	X	X	X	X	X	X	X
9	HEAD HIWAY PLANNING ENGINEER	X	X	X	X	X	X	X	X	X	X	X	X
10	PERSONNEL OFFICER	X	X	X	X	X	X	X	X	X	X	X	X
11	HEAD RIGHTS OF WAY AGENT	X	X	X	X	X	X	X	X	X	X	X	X
12	TRAFFIC ENGINEER	X	X	X	X	X	X	X	X	X	X	X	X

X INDICATES STATIONS WHICH CAN BE CALLED.



TERRITORY OF HAWAII
 HIGHWAY DEPARTMENT BUILDING
 PUNCHBOWL & QUEEN ST. HONOLULU, T.H.

ELECTRICAL LEGEND
 AND MISCELLANEOUS DETAILS

DRAWN BY HAKAGAWA
 SCALE AS SHOWN
 DATE FEB. 28, 1958

LAW & WILSON
 ARCHITECTS & ENGINEERS
 P.O. BOX 3288 HONOLULU, T.H.

JOB NO. 5994-46
 SHEET 46
 OF 46