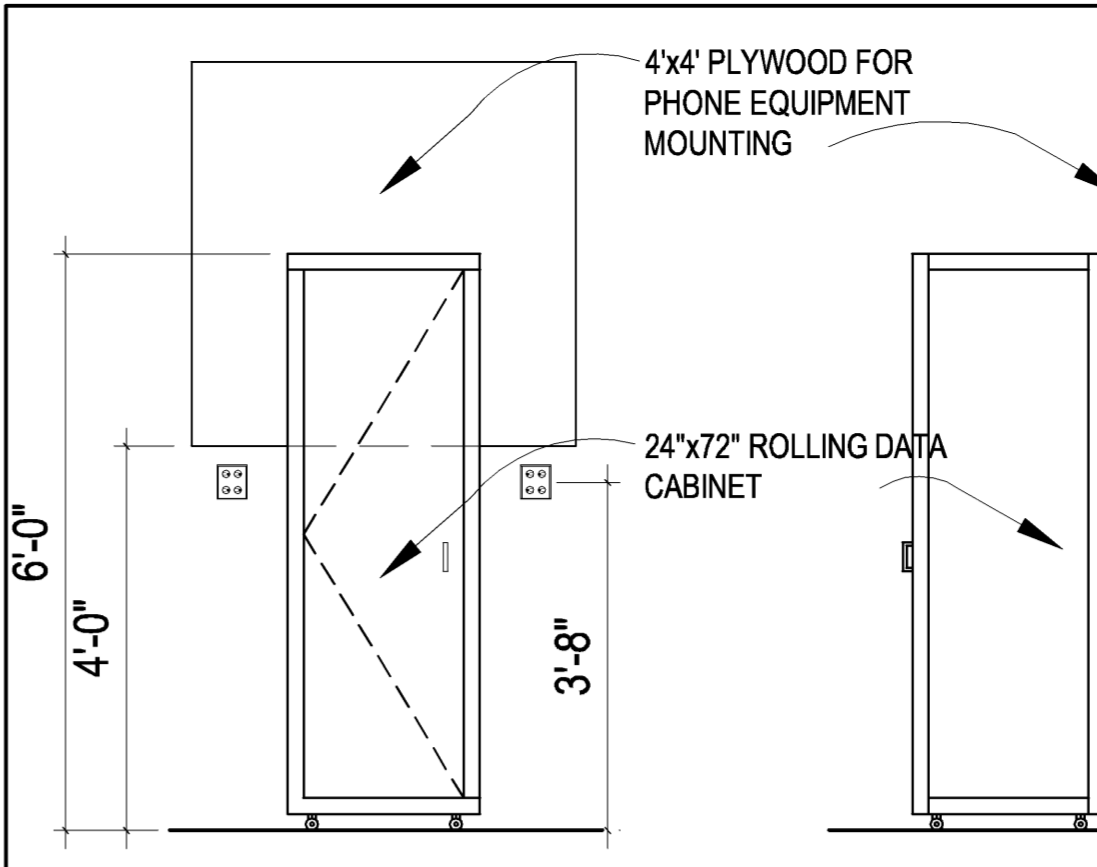


- VERIFY EXISTING CONDITIONS AND LOCATIONS IN FIELD PRIOR TO SUBMITTING PROPOSAL. FAILURE TO DO SO SHALL NOT RELIEVE THIS CONTRACTOR FROM PERFORMING THE WORK REQUIRED UNDER THIS CONTRACT.
- MAKE NECESSARY MODIFICATIONS AND ADJUSTMENTS TO ALL ELECTRICAL ITEMS AND EQUIPMENT, BOTH NEW AND EXISTING, AS MAY BE REQUIRED BY THESE ALTERATIONS AND ADDITIONS.
- THIS CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIAL INDICATED ON DRAWINGS AND AS REQUIRED TO PROVIDE A COMPLETE AND SATISFACTORY OPERATING INSTALLATION. INSTALLATION SHALL BE LEFT IN OPERATION.
- ALL MATERIALS SHALL BE NEW AND OF STANDARD QUALITY, NO REJECTS. ALL MATERIALS FOR WHICH AN UNDERWRITERS LABORATORIES STANDARD EXISTS SHALL BEAR A U.L. LABEL. PROTECT ALL EQUIPMENT AND WORK FROM DRAINAGE DUE TO ANY CAUSE.
- DUPLEX RECEPTACLES SHALL BE HUBBELL #5242 OR APPROVED, OR EQUAL. SINGLE POLE SWITCHES SHALL BE HUBBELL #1201 OR APPROVED EQUAL. COVER PLATES SHALL BE PLASTIC, IVORY OR BROWN AS SELECTED BY PROPERTY MANAGER. HUBBELL #98000 OR #99000 SERIES OR APPROVED EQUAL AND SHALL BE INSTALLED 15" A.F.F.
- IN GENERAL, FLUORESCENT LIGHTING CIRCUITS SHALL BE 20 AMP, #12 TW WIRE MINIMUM, INCANDESCENT LIGHTING CIRCUITS SHALL BE 20 AMP, #12 TW WIRE MINIMUM AND RECEPTACLE CIRCUITS SHALL BE 20 AMP, #12 TW WIRE MINIMUM.
- ALL WIRE SIZES INDICATED ARE FOR COPPER CONDUCTORS. ALL WIRE SHALL BE COPPER. ALL WIRING SHALL BE INSTALLED IN E.M.T. CONDUIT. FLEXIBLE METAL CONDUIT MAYBE USED FOR CONNECTIONS TO FIXTURES LOCATED IN ACCESSIBLE TILE CEILINGS.
- THIS CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PLAN EXAMINATION FEES, PERMITS, AND JOB INSPECTION FEES REQUIRED FOR THIS WORK.
- ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE LAWS, ORDINANCES, REGULATIONS, AND ELECTRICAL CODES.
- THIS CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL ARCHITECTURAL, STRUCTURAL AND MECHANICAL FEATURES OF THE BUILDING. CONSULT ARCHITECTURAL, STRUCTURAL AND MECHANICAL PLANS. ADJUST WORK TO FIT ACTUAL JOB CONDITIONS. COOPERATE WITH OTHER CONTRACTORS.
- THIS CONTRACTOR SHALL REMOVE ALL RUBBISH, DEBRIS, ETC., CAUSED BY HIS WORK AS FAST AS IT ACCUMULATES.
- THIS CONTRACTOR SHALL GUARANTEE ALL OF HIS WORK FOR ONE YEAR AFTER DATE OF WRITTEN ACCEPTANCE BY OWNER AGAINST ALL DEFECTS OF MATERIAL, EQUIPMENT AND WORKMANSHIP. ALL SUCH DEFECTS APPEARING WITHIN THE GUARANTEE PERIOD SHALL BE PROMPTLY REMEDIED WITHOUT FURTHER COST TO THE OWNER. ENTIRE INSTALLATION SHALL BE GUARANTEED TO OPERATE SATISFACTORILY.
- EXTRA WORK MUST BE APPROVED IN WRITING BY THE PROPERTY MANAGER. WITHOUT THE WRITTEN APPROVAL, NO EXTRA PAYMENT WILL BE MADE.
- THIS CONTRACTOR SHALL DO ALL CUTTING AND PATCHING REQUIRED FOR HIS WORK.
- ALL DUPLEX AND QUAD RECEPTACLES SHALL BE LOCATED AT 15" ABOVE FINISHED FLOOR, UNLESS NOTED OTHERWISE.
- AT DATA CABINET, ALL DUPLEX AND QUAD RECEPTACLES SHALL BE LOCATED AT 44" ABOVE FINISHED FLOOR EACH ON THEIR OWN DEDICATED CIRCUIT.
- EXISTING LIGHT FIXTURES, RECEPTACLES, SWITCHES AND ELECTRICAL PANELS SHALL BE RETAINED AND REUSED AS POSSIBLE.
- SIGN CIRCUIT - (NORMALLY REQUIRED) - THE ELECTRICAL SERVICE CONSISTING OF ONE 20 AMP CIRCUIT IS TO BE PROVIDED FOR THE EXTERIOR SIGN. IT WILL BE SWITCHED BY A TIME CLOCK LOCATED ON THE WALL NEXT TO THE ELECTRICAL PANEL. THE TIME CLOCK IS TO BE TORK MODEL #1101 24 HOUR CLOCK OR COMPARABLE SUPPLIED BY THE CONTRACTOR. THE CIRCUIT WILL TERMINATE IN A JUNCTION BOX NOT FURTHER THAN 9' FROM WHERE THE SIGN IS TO BE INSTALLED. THE SIGN WILL BE FURNISHED BY BENEFICIAL TO DETERMINE WHERE THE SIGN IS TO BE LOCATED.
- TELEPHONE AND DATA - PROVIDE A JUNCTION BOX LOCATED 15" ABOVE FINISHED FLOOR TO JUST ABOVE THE CEILING AT EACH LOCATION WHERE DATA AND/OR PHONE IS TO BE INSTALLED. NO JUNCTION BOX IS NEEDED WHERE THE WIRING WILL TERMINATE IN THE DATA ROOM. USE 3/4" CONDUIT ONLY.
- CONDUIT SHOULD BE 3/4" WITH JUNCTION INSTALLED AT A MINIMUM OF 15" A.F.F. AND A PULL STRING. DATA DROPS WILL BE CAT 5 WIRE WITH TWO DATA AND TWO VOICE AT EACH STATION.
- ALL WORK SHALL COMPLY WITH THE CURRENT EDITION OF THE NATIONAL ELECTRICAL CODE AND ALL LOCAL CODES. COORDINATE EXACT CODE REQUIREMENTS AND LOCAL AMENDMENTS WITH LOCAL INSPECTOR PRIOR TO ANY INSTALLATION.
- ALL BRANCH CIRCUIT BREAKERS SHALL BE "PLUG-ON" TYPE RATED AT 20 AMPERE - 1 POLE FOR 75 C. WIRE, UNLESS NOTED.
- ALL 20 AMP CIRCUIT BREAKERS USED AS SWITCHES SHALL BE UL-SWD RATED & SHALL BE MARKED "SWD".
- PROVIDE SPACES WITH MOUNTING HARDWARE FOR FUTURE BREAKER INSTALLATION.
- PANELS TO BE MANUFACTURED BY SQUARE "D" (OR APPROVED EQUIVALENT), WITH FLUSH LOCK AND KEYS ALIKE.
- NO MORE THAN 3 WORKSTATIONS ON A CIRCUIT.
- NIGHT LIGHT(S) TO BE "ON" 24 HOURS CONTINUOUSLY.
- EXISTING RTU'S AND DUCTWORK TO REMAIN, REROUTE NEW DIFFUSERS WITH FLEX INTO EXISTING DUCTWORK

SYMB.	DESCRIPTION	SYMB.	DESCRIPTION
	DUPLEX CONVENIENCE OUTLET MOUNTED 44" A.F.F.		VOICE/DATA CONNECTION (3/4" CONDUIT)
	DUPLEX CONVENIENCE OUTLET (+15" A.F.F.)		
	QUAD BOX W/ DUPLEX OUTLET (+15" A.F.F.)		
	EXISTING OUTLET(S)		
	20 AMP SINGLE QUAD ON SEPERATE CIRCUITS OUTLET MOUNTED 44" A.F.F. (DATA CAB.)		



### 3 ELECTRICAL LEGEND

SCALE:

### 4 DATA CABINET & PHONE BOARD

SCALE:

### 5 NOT USED

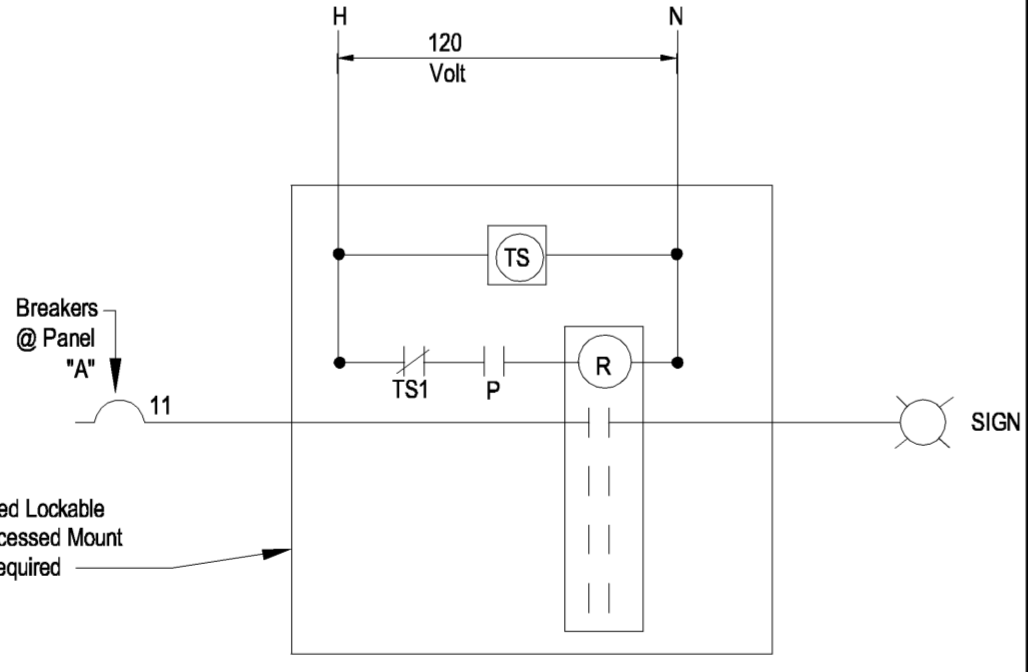
SCALE:

### 1 ELECTRICAL NOTES

SCALE:

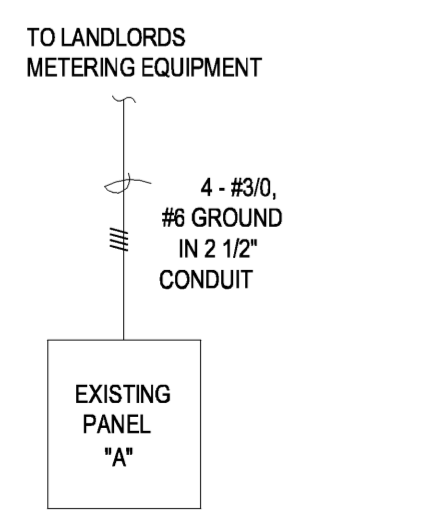
PANEL A									
120/208 VOLT, 3 PHASE, 4 WIRE					SURFACE MOUNTED				
CKT NO.	LOAD SERVED	V.A.	C.B.	P.	C.B.	V.A.	LOAD SERVED	CKT NO.	
1	SALES LTS	1750	20/1	A	20/1	1000	DESIGNATED RCP	2	
3	OFFICE/LOUNGE LTS	1750	20/1	B	20/1	1000	DESIGNATED RCP	4	
5	MICROWAVE	1350	20/1	C	20/1	540	WAIT/SALES	6	
7	REFRIGERATOR	830	20/1	A	20/1	360	SALES/TOILET	8	
9	H2O	180	20/1	B	20/1	720	OFFICE/MEETING	10	
11	SIGN	1000	20/1	C	20/1	540	MEETING/SALES	12	
13	EXISTING HWH	1000	20/2	A	20/1	540	SALES	14	
15	-----	1000	---	B	20/1	720	SALES/LOUNGE	16	
17	EXISTING RTU	3767	40/3	C	20/1	540	WAIT/OFFICE	18	
19	-----	3767	---	A	20/1	540	SALES	20	
21	-----	3767	---	B	20/1	540	SALES/LOUNGE	22	
23	SPARE	20/1	C	20/1	360	TOILET/LOUNGE	24		
25	SPARE	20/1	A	20/1	1000	PRINTER/FAX	26		
27	SPACE ONLY			B	20/1		SPARE	28	
29	SPACE ONLY			C	20/1		SPACE ONLY	30	
31	SPACE ONLY			A			SPACE ONLY	32	
33	SPACE ONLY			B			SPACE ONLY	34	
35	SPACE ONLY			C			SPACE ONLY	36	

- NOTES
- FURNISH AND INSTALL LIGHTING CONTROL CONTACTORS, IN A HINGED NEMA 1 ENCLOSURE OF ADEQUATE SIZE, SURFACE MOUNTED NEXT TO ELECTRICAL PANEL. CONTACTORS SHALL BE MULTI-POLE, 20 AMP RATED, ELECTRICALLY HELD, MANUFACTURED BY SQUARE-D OR APPROVED EQUAL. PROVIDE TERMINAL STRIPS FOR ALL LINE AND LOAD CONDUCTORS. IDENTIFY THE CIRCUIT NUMBER FOR EACH CONDUCTOR USING WIRE LABELS AND PROVIDE A SCHEDULE INSIDE OF THE ENCLOSURE IDENTIFYING THE LOAD EACH CIRCUIT SERVES.
  - ALL LIGHTING CONTACTORS TO HAVE A MINIMUM OF 15,000 A.I.C. INTERRUPTING RATING.



LOADS BASED ON NATIONAL ELECTRIC CODE						
PANEL A	CONNECTED LOAD BY PHASE			TOTAL CONNECTED	TOTAL W/ DIVERSITY	
3 PHASE	A	B	C			
LIGHTING	1.25	1750	1750	1000	4500	5625
RECEPTACLES	4270	3160	3330	10760	10380	
MOTORS	1	0	0	0	0	0
OTHER	1	1000	1000	0	2000	2000
KITCHEN	1	0	0	0	0	0
NON-SIMULTAN	0	0	0	0	0	0
HEATING ONLY	0	0	0	0	0	0
COOLING ONLY	1	3767	3767	3767	11301	11301
EXIST. LOAD	1.25	0	0	0	0	0
LOAD TOTAL		10787	9677	8097	28561	29306

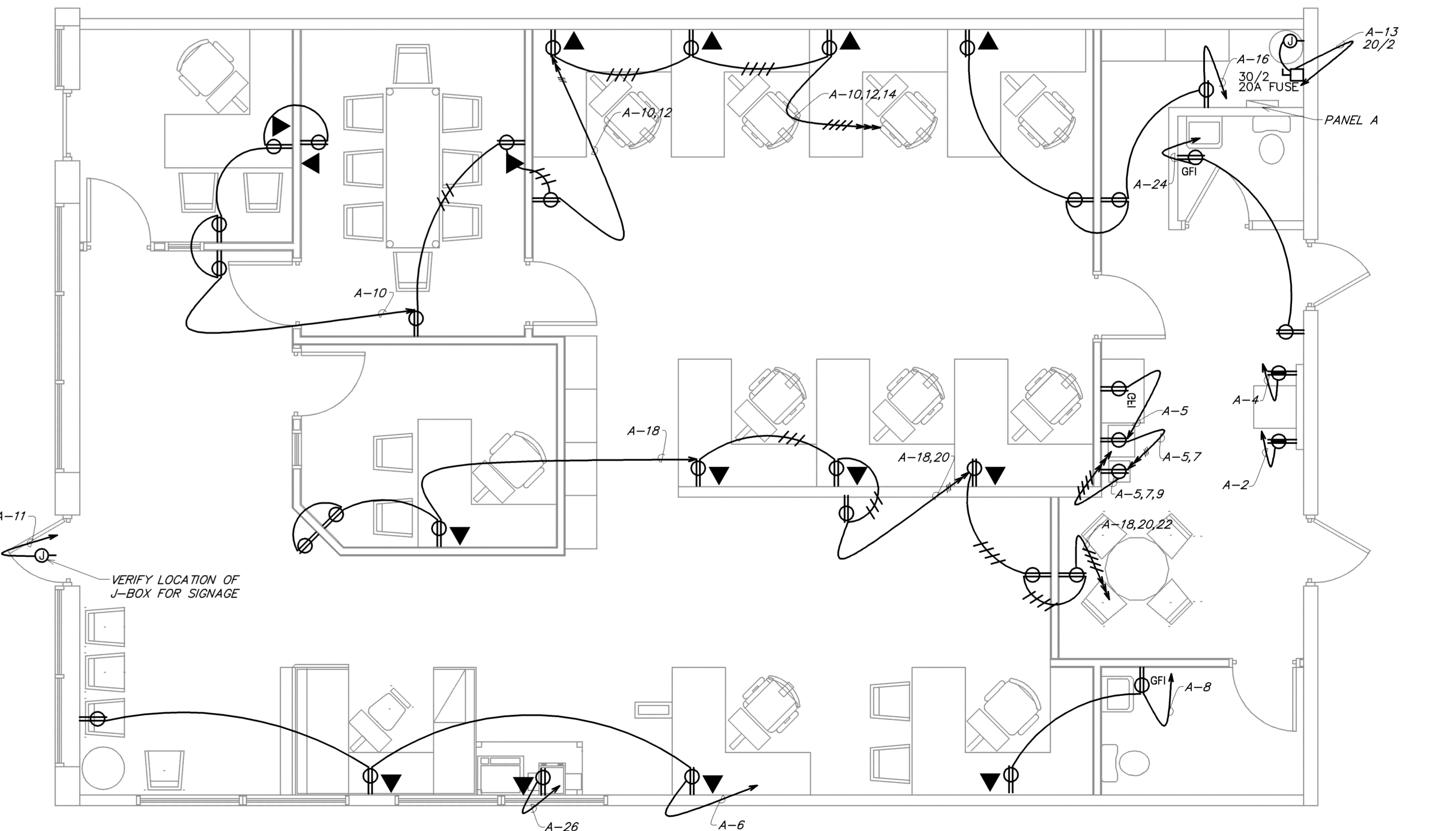
- \* VERIFY EXISTING RTU. ADJUST BREAKER SIZE AND WIRE SIZE ACCORDING TO EXISTING CONDITIONS.
- \*\* VERIFY EXISTING HWH. ADJUST BREAKER SIZE AND WIRE SIZE ACCORDING TO EXISTING CONDITIONS.



### ONE LINE DIAGRAM

### 2 PANEL DIAGRAM

SCALE:



### 6 ELECTRICAL PLAN

SCALE: 1/4" = 1'-0"



**BENEFICIAL FINANCE**  
1041 BRIGHTON AVE.  
PORTLAND, ME. 04102

**ELECTRICAL PLAN, PANEL DIAGRAMS, LEGEND & ELEVATIONS**

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402 981860

- Revisions
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ARCHITECT  
I HEREBY CERTIFY THAT THESE PLANS HAVE BEEN PREPARED UNDER MY SUPERVISION AND THAT TO THE BEST OF MY KNOWLEDGE, THE SAME COMPLY WITH ALL RULES, REGULATIONS AND ORDINANCES OF PORTLAND, ME RELATING TO STRUCTURES AND BUILDINGS.

BRANCH #  
**56-1700**

Drawn By  
JMS

Checked By  
GRS

Scale  
AS NOTED

Date  
10-25-05

Job No.  
**05-2242**

Sheet No.  
**E-1**