

1 FIRST FLOOR - HVAC PLAN
SCALE: 1/8" = 1'-0"

FANS

DESIG.	LOCATION	TYPE	CFM	SP IN W.G.	DRIVE	ELEC. DATA		STARTER BY	EQUAL TO MANUFACTURER AND MODEL NO.	WEIGHT LB.	REMARKS	
						HP	T RPM	VOLT/PH				
EF-1	COPY ROOM	IN-LINE	575	0.5	DIR.	1/6	1500	120/1	DV15	COOK 100SQN12D	100	SEE ALL NOTES BELOW

- NOTES:
- PROVIDE WITH FUSED DISCONNECT SWITCH.
 - PROVIDE WITH BACKDRAFT DAMPER.
 - CONTROL FAN THROUGH EMS IN ORDER TO KEEP ROOM PRESSURE NEGATIVE TO ADJACENT SPACES.

VARIABLE AIR VOLUME BOXES

DESIG.	COOLING CFM	INLET SIZE	EQUAL TO MANUFACTURER AND MODEL NO.
VAV1-1	880	10"	ENVROTEC
VAV1-2	900	10"	ENVROTEC
VAV1-3	400	8"	ENVROTEC
VAV1-4	330	8"	ENVROTEC
VAV1-5	400	8"	ENVROTEC
VAV1-6	700	8"	ENVROTEC

- NOTES:
- BOXES SHALL BE COMPLETE WITH HONEYWELL DDC CONTROLS AND CONNECTED TO BUILDING AUTOMATION SYSTEM.
 - BOXES SHALL BE PRESSURE INDEPENDENT.

NOTES BY SYMBOL (X):

- PROVIDE ACOUSTICALLY LINED RETURN AIR ELBOW THRU WALL TO DECK AS HIGH AS POSSIBLE ABOVE CEILING. SIZE PER PLANS.
- EXISTING LOCATION OF TERMINAL BOX TO BE RELOCATED/REMOVED. REMOVE EXISTING MEDIUM AND LOW PRESSURE DUCTWORK AS INDICATED ON DRAWINGS.
- NEW LOCATION OF TERMINAL BOX. MOUNT BOX FROM STRUCTURE ABOVE. EXTEND NEW MEDIUM AND LOW PRESSURE DUCT AS INDICATED ON DRAWINGS. COORDINATE RELOCATION WITH OTHER TRADES INVOLVED.
- PROVIDE INSULATION PAD TO BE INSTALLED BETWEEN THERMOSTAT AND WALL FOR THERMOSTATS MOUNTED ON COLUMN WALLS.
- ALL NEW EXPOSED DUCTWORK SHALL BE MOUNTED AT A HEIGHT REQUIRED TO MAINTAIN GRILLES 13' AFF.
- RELOCATED EXISTING FIRE SPRINKLER PIPE UP AS TIGHT TO STRUCTURE AS POSSIBLE.
- DEMO LOW PRESSURE DUCT. FAN POWER BOX TO REMAIN FOR FUTURE TENANT.
- ASSUMING EXISTING HOLE IS 48" X 24" INCREASE OPENING TO 60" X 24" AND PROVIDE LOUVER AND ACOUSTICALLY LINED DUCT.
- COORDINATE WITH ARCHTECH THE AVAILABLE SPACE ABOVE THE DOOR FOR A LOUVER DESIGNATED "K". PROVIDE NEW DUCTWORK TO TURNDOWN AND CONNECT TO RETURN AIR LOUVER.
- COORDINATE WITH BUILDING AND GENERAL CONTRACTOR FOR THE LOCATION OF THE EXHAUST LOUVER AND TO CUT AND WATERPROOF EXTERIOR WALL IN COMPLIANCE WITH ORIGINAL DETAILS AND WARRANTIES. PROVIDE A LOUVER WITH A MINIMUM FREE AREA OF 3 SQFT.
- COORDINATE WITH ARCHITECT THE FINAL LOCATION OF RETURN AIR SIDE GRILLE.
- PRICE CO SENSORS AS ADD ALTERNATE #16.
- DUCT SIZE 10"X10".
- DUCT SIZE 12"X12".
- DUCT SIZE 14"X14".
- PROVIDE RETURN AIR PATH WITH TRANSFER USING "J" TYPE GRILLES.
- PROVIDE TRANSFER THRU WALL AS HIGH AS POSSIBLE ABOVE THE CEILING. SIZE PER PLANS.

REFER TO SHEET M2.00 FOR GENERAL NOTES, SCHEDULES AND SYMBOLS.



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PMI JOB NO. 08251.001
PROJECT MGR. TODD JOHNSON/HANNA VANOVER
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Knoll Inc.
DALLAS
ONE ARMS PLAZA, 11222 DORTCH STREET, DALLAS, TX 75221

ISSUED DATE: 04-03-08
SCALE: AS NOTED
PROJ. NO.: 07150801
SHEET NO.: M1.01

GENERAL NOTES:

- A. ALL WORK SHALL COMPLY WITH APPLICABLE NATIONAL, STATE AND LOCAL CODES, RULES, REGULATIONS AND REQUIREMENTS.
- B. ALL WORK SHALL COMPLY WITH THE BUILDING TENANT CONSTRUCTION GUIDE. COORDINATE WITH BUILDING MANAGEMENT/OWNER FOR ACCESS TO ANY TENANT LEASE SPACES THAT MIGHT BE REQUIRED FOR THE INSTALLATION.
- C. EXISTING CONDITIONS ARE BASED ON INFORMATION PROVIDED BY SITE SURVEY AND PREVIOUS RECORD DRAWINGS DATED 08/18/06 AND AS-BUILT DOCUMENTATION DATED 05/16/08. HOWEVER, IT IS NOT INTENDED TO BE A TRUE REPRESENTATION OF ACTUAL CONDITIONS. CONTRACTOR SHALL VISIT JOB SITE PRIOR TO BIDDING TO ASCERTAIN EXISTING CONDITIONS AND SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO BID.
- D. CONTRACTOR SHALL ENGAGE AN INDEPENDENT AIR BALANCING COMPANY TO OBTAIN AIR QUANTITIES SHOWN ON DRAWING. AT COMPLETION OF AIR BALANCE, BALANCING DAMPER SHALL BE TIGHTENED AND PROPERLY SEALED WITH FOIL TAPE.
- E. ALL MEDIUM AND LOW PRESSURE DUCTWORK SHALL BE GALVANIZED SHEET METAL FABRICATED, INSTALL AND SEAL MEDIUM PRESSURE DUCTWORK FOR 4"W.G. AND LOW PRESSURE DUCTWORK FOR 2"W.G. IN ACCORDANCE WITH SMACNA STANDARD. DUCTWORK SHALL BE INSULATED WITH 2" FIBERGLASS BLANKET WITH FOIL FACED VAPOR BARRIER TO MEET IECC REQUIREMENTS.
- F. ALL SUPPLY AND RETURN DUCT SIZES ARE FREE AREAS.
- G. ALL RUNOUTS TO DIFFUSER SHALL BE SAME AS NECK SIZE UNLESS NOTED OTHERWISE.
- H. OFFSET DUCTS INTO JOIST SPACE FOR CLEARANCE WHERE SPACE ABOVE CEILING IS NOT SUFFICIENT FOR DUCTS TO CROSS OTHER DUCTS OR WORK OF CEILING TRADES.
- I. INSULATED FLEX DUCT IN THE MEDIUM PRESSURE SYSTEM SHALL BE UTILIZED AT INLET TO VAV BOX OR FAN POWERED BOX ONLY. LENGTH SHALL BE LIMITED TO AN OVERALL LENGTH OF TWO (2) FEET AND BE STRAIGHT RUN. INSULATED FLEX DUCT IN THE LOW PRESSURE SYSTEM SHALL BE LIMITED TO AN OVERALL LENGTH OF SIX (6) FEET WITH A MAXIMUM OF A 90 DEGREE CHANGE IN DIRECTION. SUPPORTS SHALL BE SADDLE BANDED TO STRUCTURE. SUPPORTING FROM FIRE PROTECTION PIPING, ELECTRICAL CONDUIT OR CEILING SUPPORT WIRES IS NOT ACCEPTABLE.
- J. VAV BOXES AND FAN POWERED BOXES SHALL HAVE 24" MINIMUM CLEARANCE ON ALL SIDES OF BOX.
- K. ALL ENCLOSED ROOMS (INTERIOR AND PERIMETER) SHALL HAVE RETURN AIR PATH. ROOMS WITH ALL WALLS TO DECK SHALL HAVE LINED SHEET METAL RETURN AIR BOOTS PLACED IN WALL ABOVE CEILING SIZED FOR 500 FPM MAXIMUM. FIRE RATED WALLS SHALL HAVE FIRE DAMPERS WITHIN THE DUCT PER LOCAL CODE REQUIREMENTS.
- L. PIPES AND DUCTS TO BE COORDINATED ON JOB WITH BUILDING STRUCTURE AND WORK OF OTHER CONTRACTORS. ROUTE AS HIGH AS PHYSICALLY POSSIBLE.
- M. COORDINATE CEILING DIFFUSERS AND GRILLES WITH LIGHTING FIXTURES. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN.
- N. CONTRACTOR SHALL COORDINATE LOCATION OF THERMOSTATS WITH ARCHITECT IN FIELD.
- O. REPAIR AND PATCH CONSTRUCTION DAMAGED DUE TO THE DEMOLITION OF THIS PROJECT, USING SAME METHODS AND MATERIALS TO MATCH EXISTING.
- P. PROVIDE TEMPORARY HIGH EFFICIENCY FILTER MEDIA ON MAIN RETURN AIR AND EXHAUST FROM FLOOR AT BEGINNING OF PROJECT AND REPLACED AT TWO (2) WEEK INTERVALS UNTIL PROJECT COMPLETION AT WHICH TIME THE FILTER MEDIA SHALL BE REMOVED.
- Q. CONTRACTOR SHALL PROVIDE YOUNG CONCEALED DAMPER REGULATORS WITH A DAMPER CABLE CONTROL KIT EQUAL TO BOWDEN MODEL 270-896P FOR ALL GYPSUM BOARD APPLICATIONS. COORDINATE SHAFT SIZE OF DAMPER WITH KIT FOR PROPER COMPATIBILITY. REFER TO ARCHITECTURAL DRAWINGS FOR ALL LOCATIONS INDICATED WITH GYPSUM BOARD CEILING AND COORDINATE WITH ARCHITECT FOR EXACT LOCATION OF INSTALLATION.

GRILLES - REGISTERS - DIFFUSERS

DESIG.	DUTY	TYPE	MOUNTING LOCATION	MATERIAL	VOLUME CONTROL	FINISH	AIR PATTERN CONTROL	METHOD OF SUPPORT	EQUAL TO MANUFACTURER AND MODEL NO.	REMARKS
A	SUPPLY	LOUVERED	LAY-IN CLG	STEEL	NO	OFF WHITE	YES	T-BAR	TITUS TMSA 24X24 FACE	SEE NOTE 1, 2
B	RETURN	PERFORATED	LAY-IN CLG	STEEL	NO	OFF WHITE	NO	T-BAR	TITUS PAR 24X24 FACE	SEE NOTE 2
C	SUPPLY	CONE	LAY-IN CLG	STEEL	NO	OFF WHITE	YES	DUCT	TITUS R-OMNI	SEE NOTE 1, 2
D	EXHAUST	PERFORATED	LAY-IN CLG	STEEL	NO	OFF WHITE	NO	T-BAR	TITUS PAR 12X12 FACE	SEE NOTE 2
E	SUPPLY	LOUVERED	LAY-IN CLG	STEEL	NO	OFF WHITE	YES	T-BAR	TITUS TMSA 12X12 FACE	SEE NOTE 1, 2
F	SUPPLY	SQUARE DDC INTEROPERABLE	LAY-IN CLG	STEEL	NO	OFF WHITE	NO	T-BAR	ACUTHERM THERMA-FUSER EP 24X24 FACE	SEE NOTE 1, 4
G	RETURN	LINEAR SLOT	GYP. BD CLG	ALUMINUM	NO	OFF WHITE	YES	SURFACE	TITUS MLR-39 (1") 2-SLOTS	SEE NOTE 2
H	EXHAUST	PERFORATED	LAY-IN CLG	STEEL	YES	OFF WHITE	NO	T-BAR	TITUS PAR 24X24 FACE	SEE NOTE 2
I	RETURN	LOUVERED	SIDE WALL	STEEL	NO	OFF WHITE	NO	GYP.	TITUS 25RL 30X12 FACE	SEE NOTE 2
J	RETURN	LOUVERED	SIDE WALL	STEEL	NO	OFF WHITE	NO	GYP.	TITUS 25RL 12X12 FACE	SEE NOTE 2
K	RETURN	EGGGRATE	SIDE WALL	STEEL	NO	OFF WHITE	NO	GYP.	TITUS 50R-S 48X48 FACE	SEE NOTE 2

NOTES: 1. NECK SIZES AS FOLLOWS:

DESIGNATION "A"		DESIGNATION "C"	
CFM RANGE	NECK SIZE	CFM RANGE	NECK SIZE
000 - 250	8"	000 - 215	8"
255 - 400	10"	220 - 400	8"
405 - 550	12"	405 - 540	10"
560 - 700	14"	545 - 700	12"
		705 - 960	14"

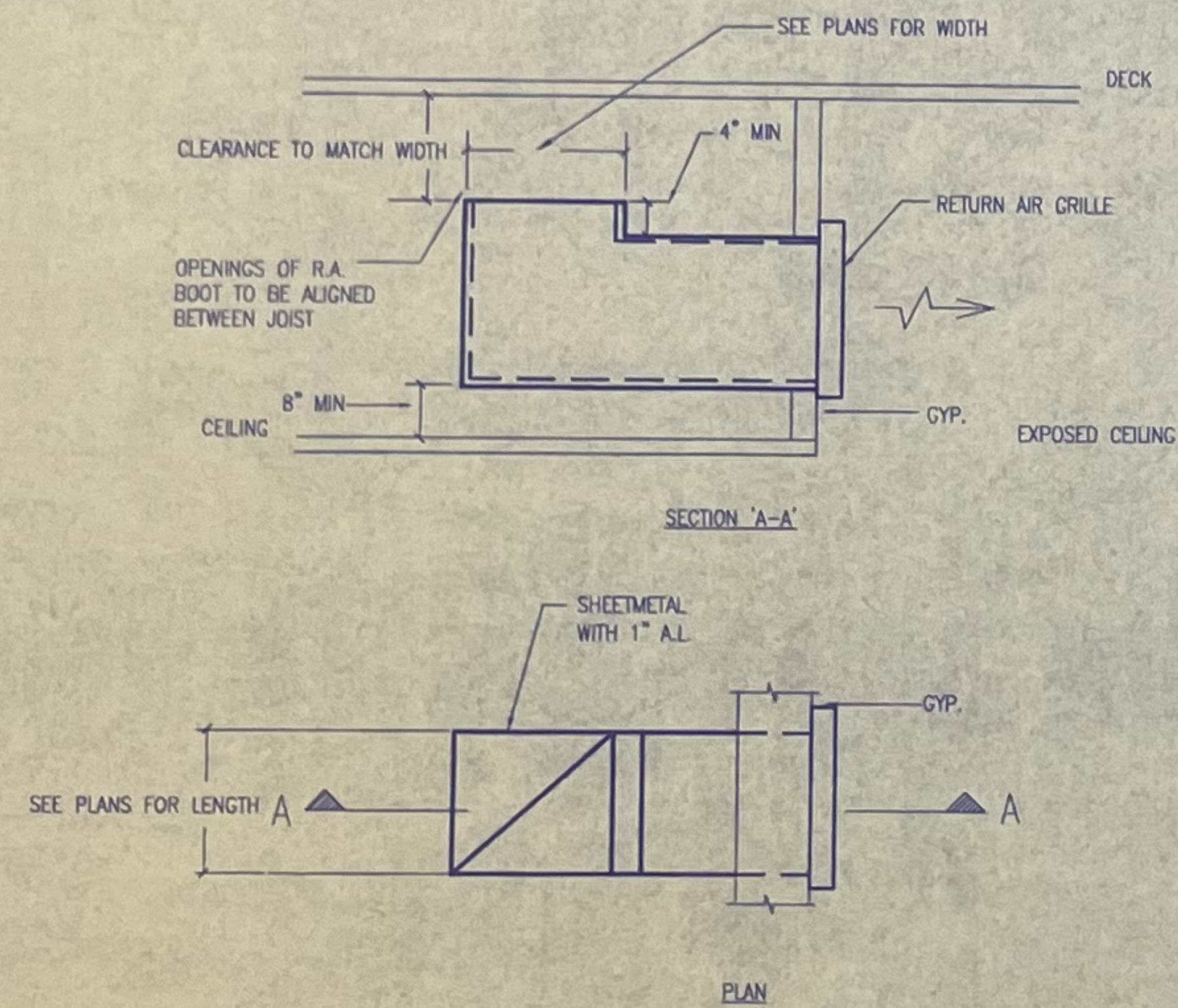
- 2. NOTIFY ENGINEER OF ANY DISCREPANCIES BETWEEN NEW MODEL # AND EXISTING PRIOR TO PURCHASE.
- 3. COORDINATE WITH ARCHITECT NEW INACTIVE SECTIONS NEXT TO PERIMETER SLOTS.
- 4. CONNECT TO EMS. PROVIDE FACTORY INSTALLED PRESSURE RELIEF RINGS ONLY FOR THOSE TYPE 'F' DIFFUSERS AS NOTED ON FLOOR PLANS.

HVAC SYMBOLS

SYMBOL	DESCRIPTION
	ARROW INDICATES EXISTING TO BE RELOCATED AS INDICATED ON PLAN
	REDISTRIBUTE AIR TO EXISTING DIFFUSER AS INDICATED ON PLAN
	INDICATES SIZE, CFM, AND DIFFUSER TYPE
	NEW CEILING SUPPLY DIFFUSER
	NEW RETURN AIR/EXHAUST GRILLE
	EXISTING RETURN AIR/EXHAUST GRILLE
	NEW SLOT DIFFUSER
	EXISTING SLOT DIFFUSER
	POINT OF CONNECTION BETWEEN NEW AND EXISTING WORK
	EXISTING TO REMAIN
	REMOVE EXISTING AS INDICATED
	CAP EXISTING DUCT
	MANUAL VOLUME CONTROL DAMPER
	DUCT TRANSITION
	NEW OR RELOCATED THERMOSTAT
	FLEXIBLE DUCT CONNECTION
	INDICATES A WALL TO DECK (FOR COORDINATION PURPOSE ONLY-REFER TO ARCHITECTS PLANS FOR REQUIREMENTS)

SEQUENCE OF OPERATION AIR MONITORING

CONNECT CO SENSORS TO EMS. ENSURE THAT EXISTING OUTSIDE AIR VAV IS CONNECTED TO EMS. THE CO SENSORS SHALL MODULATE THE CFM SUPPLIED BY THE OUTSIDE AIR VAV THROUGH THE EXISTING EMS SYSTEM.



2 RETURN AIR BOOT
SCALE: NONE

1 HVAC NOTES, SYMBOLS, SCHEDULES & DETAILS
SCALE: 1/8"=1'-0"

DRAWN BY: JET / P.
 REVISION: 1
 CONSTRUCTION DATE:
 PRE-FINAL DATE:
 PRELIMINARY DATE:
 CONCEPTUAL DATE:
 EASTING CONTRACTORS, JULY 9, 2009



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MECHANICAL EQUIPMENT POWER SCHEDULE

EQUIPMENT DESIGNATION	LOAD	VOLTAGE / PHASE	CIRCUIT NUMBER	CIRCUIT BREAKER AMPS/POLES	DISCONNECT AMPS/POLES/FUSE	WIRE SIZING	REMARKS
WH1-1	8310W	277/1	HV-7	30/1	C/B	2#10, 1#10G, 3/4" C	SEE NOTE 1
WH1-2	9000W	277/1	HV-8	35/1	C/B	2#8, 1#10G, 3/4" C	SEE NOTE 1
WH1-3	9000W	277/1	HV-11	35/1	C/B	2#8, 1#10G, 3/4" C	SEE NOTE 1
EFT-1	1/2HP	120/1	LV2-22	20/1	1PSW	2#12, 1#12G, 3/4" C	SEE NOTE 1, 2

NOTES:
 1. REFER TO HVAC AND PLUMBING PLANS FOR LOCATIONS OF EQUIPMENT. COORDINATE FINAL LOCATIONS IN FIELD.
 2. PROVIDE SWITCH ADJACENT TO LIGHT SWITCH.

PANELBOARD LV

VOLT: 208 / 120 PH: 3 WIRE: 4 AIC RATING: TBD BY: Brad Ragle
 MAIN AMPS: 225 AMP MCB PROJECT: Knoll
 MOUNTING: Surface PMI NO.: 0251001

LOAD DESCRIPTION	POLES & AMPS	CONNECTED LOAD VOLT-AMPS			OK	A	B	C	CONNECTED LOAD VOLT-AMPS			POLES & AMPS	LOAD DESCRIPTION
		A	B	C					A	B	C		
LV2	100/3	8578	1	2	98				20/1	3 WS TASK			
DED IG QUAD - IDF	20/1	9524	3	4	98			20/1	3 WS CONN				
DED IG QUAD - IDF	20/1	7458	5	6	540			400	20/1	3 WS COMPT			
DED IG QUAD - IDF	20/1	500	7	8	500			20/1					
DED IG QUAD - IDF	20/1	500	9	10	192			20/1	6 WS TASK				
COPPER	20/1	1200	11	12	1080			20/1	6 WS CONN				
COPPER	20/1	1200	13	14	800			20/1	6 WS COMPT				
REFRIG	20/1	1200	15	16	800			20/1					
KITCH DUPLEX	20/1	900	17	18	192			20/1	6 WS TASK				
KITCH DUPLEX	20/1	750	19	20	1080			20/1	6 WS CONN				
KITCH DUPLEX	20/1	750	21	22	600			20/1	6 WS COMPT				
KITCH DUPLEX	20/1	750	23	24	600			20/1					
KITCH DUPLEX	20/1	750	25	26	192			20/1	6 WS TASK				
KITCH DUPLEX	20/1	750	27	28	1080			20/1	6 WS CONN				
KITCH DUPLEX	20/1	750	29	30	600			20/1	6 WS COMPT				
SPARE	20/1	0	31	32	800			20/1					
PROJECTOR	20/1	0	33	34	1280			20/1	13 WS CONN(SHRM)				
DED DUP - CONF	20/1	600	35	36	1400			20/1	13 WS COMPT(SHRM)				
DED DUP - AMPLIFIER	20/1	450	37	38	40			20/1					
DED IG DUP - CONF	20/1	400	41	42	700			20/1	SPARE				
TOTAL PHASE A		17293						6575					
TOTAL PHASE B		18648						9524					
TOTAL PHASE C		15708						7458					

LOAD DESCRIPTION	AMPS	VOLTS	WATTS	REMARKS
TOTAL LIGHTING	19811	X 1.25	24764	
TOTAL KITCHEN	0	X 0.65	0	
TOTAL RECEPTACLE	10660	X 0.50 >10kva	10280	
TOTAL HVAC/MOTOR	0	X 1.00	0	
LARGEST MOTOR	1176	X 1.25	1470	
TOTAL NON COINCIDENTAL	0	X 0.00	0	
MISC COMPUTER	9100	X 1.00	9100	
MISC NON-COMPUTER	11000	X 1.00	11000	
TOTAL CONN. LOAD	51647	TOTAL DEMAND LOAD	66614	
DIVERSIFIED DESIGN LOAD	56614	/ 225	X 1.73 =	157

Existing panel fed from existing 75kva xbr. Xbr is fed from existing panel HV.

PANELBOARD HV

VOLT: 480 / 277 PH: 3 WIRE: 4 AIC RATING: TBD BY: Brad Ragle
 MAIN AMPS: 225 AMP MLO PROJECT: Knoll
 MOUNTING: Surface PMI NO.: 0251001

LOAD DESCRIPTION	POLES & AMPS	CONNECTED LOAD VOLT-AMPS			OK	A	B	C	CONNECTED LOAD VOLT-AMPS			POLES & AMPS	LOAD DESCRIPTION
		A	B	C					A	B	C		
(Step Dn) LV	100/3	17293	1	2	0				20/1	SPARE			
		18648	3	4	0				20/1	SPARE			
		15708	5	6	0				20/1	SPARE			
		15708	7	8	0				20/1	SPARE			
WH 1-1	30/1	8310	9	10	0				20/1	SPARE			
WH 1-2	35/1	9000	11	12	0				20/1	SPARE			
WH 1-3	35/1	9000	13	14	0				20/1	SPARE			
SPARE	20/1	0	15	16	0				20/1	SPARE			
SPARE	20/1	0	17	18	0				20/1	SPARE			
SPARE	20/1	0	19	20	0				20/1	SPARE			
SPARE	20/1	0	21	22	0				20/1	SPARE			
SPARE	20/1	0	23	24	0				20/1	SPARE			
SPARE	20/1	0	25	26	0				20/1	SPARE			
SPARE	20/1	0	27	28	0				20/1	SPARE			
SPARE	20/1	0	29	30	0				20/1	SPARE			
SPARE	20/1	0	31	32	0				20/1	SPARE			
SPARE	20/1	0	33	34	0				20/1	SPARE			
SPARE	20/1	0	35	36	0				20/1	SPARE			
SPARE	20/1	0	37	38	0				20/1	SPARE			
SPARE	20/1	0	39	40	0				20/1	SPARE			
SPARE	20/1	0	41	42	0				20/1	SPARE			
TOTAL PHASE A		25603						25603					
TOTAL PHASE B		27645						27645					
TOTAL PHASE C		24708						24708					

LOAD DESCRIPTION	AMPS	VOLTS	WATTS	REMARKS
TOTAL LIGHTING	19811	X 1.25	24764	
TOTAL KITCHEN	0	X 0.65	0	
TOTAL RECEPTACLE	10660	X 0.50 >10kva	10280	
TOTAL HVAC/MOTOR	0	X 1.00	1470	
LARGEST MOTOR	1176	X 1.25	1470	
TOTAL NON COINCIDENTAL	0	X 0.00	0	
MISC COMPUTER	9100	X 1.00	9100	
MISC NON-COMPUTER	37910	X 1.00	37910	
TOTAL CONN. LOAD	77667	TOTAL DEMAND LOAD	62924	
DIVERSIFIED DESIGN LOAD	82604	/ 225	X 1.73 =	900

Existing panel in elec closet, fed from 225A circuit breaker in existing panel DP

POWER SYMBOLS

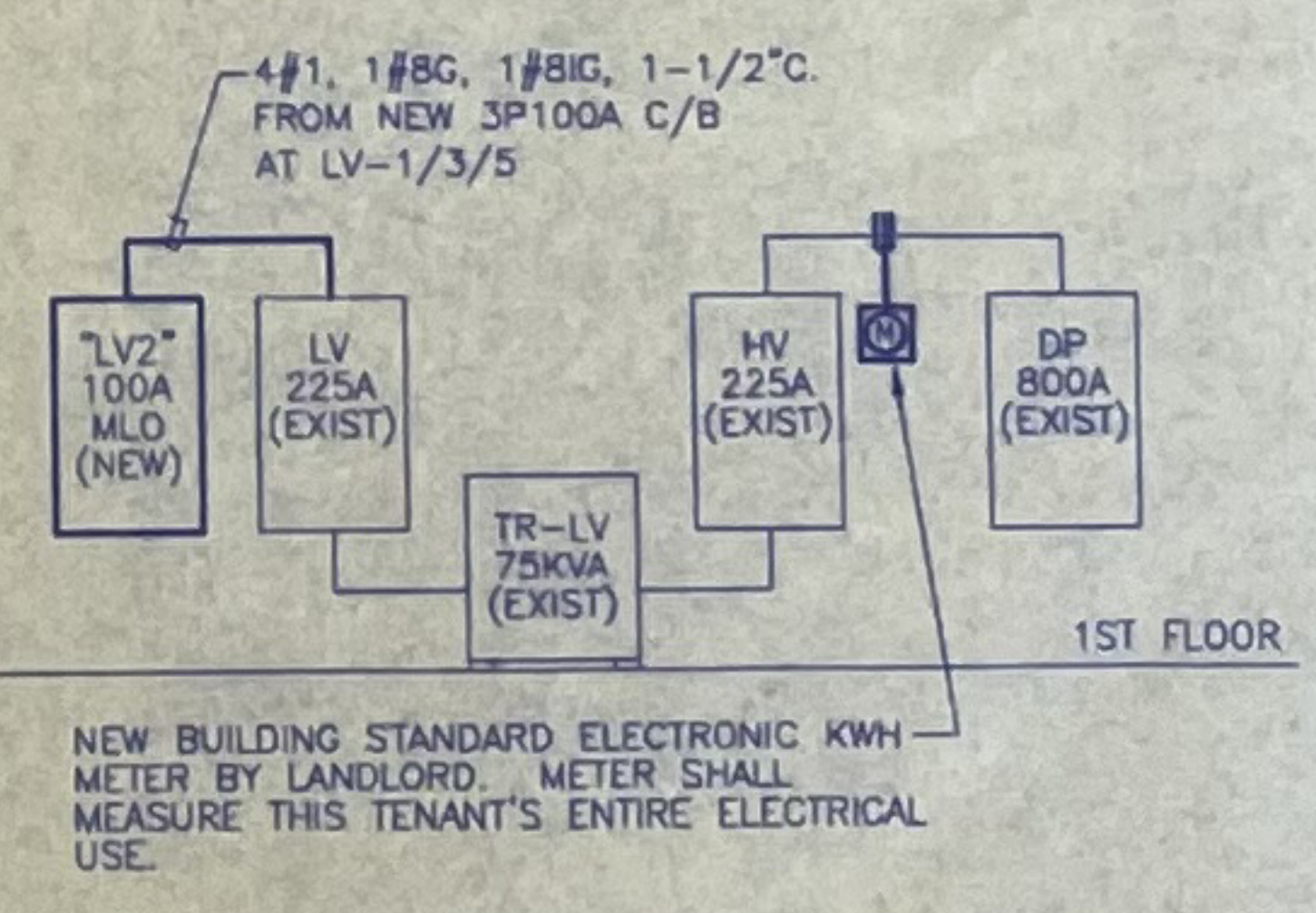
SYMBOL	DESCRIPTION
⊕	WALL MOUNTED DUPLEX RECEPTACLE (NEMA 5-20R)
⊕IG	WALL MOUNTED ISOLATED GROUND DUPLEX RECEPTACLE (NEMA 5-20RIG)
⊕IG	WALL MOUNTED QUADREX ISOLATED GROUND RECEPTACLE (NEMA 5-20RIG)
⊕	WALL MOUNTED POWER FEED TO SYSTEMS FURNITURE
⊕	WALL MOUNTED COMMUNICATIONS FEED TO SYSTEMS FURNITURE
⊕	ONE POKE-THRU FOR POWER AND DATA AND A SECOND POKE-THRU FOR AUDIO-VISUAL - REFER TO ARCHITECTURAL DRAWINGS FOR SPECS
⊕	POKE-THRU FOR POWER AND COMMUNICATIONS FEEDS TO SYSTEMS FURNITURE - REFER TO ARCHITECTURAL DRAWINGS FOR SPECS
⊕	POKE-THRU WITH ISOLATED GROUND DUPLEX PLUS COMMUNICATIONS - REFER TO ARCHITECTURAL DRAWINGS FOR SPECS
⊕	POKE-THRU FOR POWER ONLY FEED TO SYSTEMS FURNITURE - REFER TO ARCHITECTURAL DRAWINGS FOR SPECS
⊕	WALL MOUNTED VOICE OUTLET
⊕	WALL MOUNTED VOICE/DATA OUTLET
⊕	RECESSED SPEAKER - CONTRACTOR TO CUT ROUGH-IN INTO WALL AND PROVIDE 3/4" CONDUIT TO A/V JBOX LOCATED AT CRENDENZA. SPEAKER AND SHIELDED TWO PAIR 18 GA SPEAKER WIRE BY OTHERS.
⊕	SURFACE MOUNTED SPEAKER - CONTRACTOR TO PROVIDE 3/4" CONDUIT AND JBOX MOUNTED RECESSED OR SURFACE AS APPLICABLE. MOUNT TO WALL 12" AFF. ALL CONDUIT TO RUN BACK TO AMPLIFIER.
⊕	400W AMPLIFIER - CONTRACTOR TO ROUTE ALL SPEAKER CONDUIT BACK TO THIS POINT. AMPLIFIER AND SPEAKER WIRE BY OTHERS.
⊕	SURFACE MOUNTED WIRELESS ACCESS POINT - GC TO PROVIDE 3/4" CONDUIT AND JBOX MOUNTED RECESSED OR SURFACE AS APPLICABLE. MOUNT TO WALL 12" AFF. ALL CONDUIT TO RUN BACK TO TELE/DATA ROOM.
⊕	POWER TO MAGLOCK/CARDREADER SYSTEM - COORDINATE REQUIREMENTS WITH HARDWARE
⊕	DOORBELL AND DOOR OPERATION SENSOR CONNECTED TO SALES AREA CHIME (ENTIRE SYSTEM BY CONTRACTOR)
⊕	RECESSED CHIME FOR FRONT DOOR MOUNTED 12" AFF (ENTIRE SYSTEM BY CONTRACTOR). NUTONE #LA20BWH, XFMR #9C5.
⊕	EXISTING 277/480V ELECTRIC PANEL
⊕	EXISTING 120/208V ELECTRIC PANEL
⊕	NEW 120/208V ELECTRIC PANEL
⊕	EXISTING TRANSFORMER

POKE-THRU LOCATIONS

REFER TO ARCHITECTURAL DRAWINGS FOR POKE-THRU PLACEMENT. ALL POKE-THRUS SHALL BE VERIFIED IN FIELD BY ARCHITECT PRIOR TO CORE DRILLING.

CONDUIT INSTALLATION

IN AREAS WHERE THERE ARE NO CEILINGS (EXPOSED STRUCTURE), ALL CONDUITS SHALL BE RUN TIGHT TO STRUCTURE AND SHALL BE STRAIGHT, LEVEL AND PARALLEL WITH THE LINES OF THE BUILDING.



1 ELECTRIC RISER DIAGRAM

SCALE: NONE

POWER GENERAL NOTES:

- A. ALL WORK SHALL COMPLY WITH APPLICABLE NATIONAL, STATE AND LOCAL CODES, RULES, REGULATIONS AND REQUIREMENTS OF THE SERVICE UTILITY COMPANY.
- B. ALL WORK SHALL COMPLY WITH THE BUILDING TENANT CONSTRUCTION GUIDE. COORDINATE WITH BUILDING MANAGEMENT/OWNER FOR ACCESS TO ANY TENANT LEASE SPACES THAT MIGHT BE REQUIRED FOR THE INSTALLATION.
- C. EXISTING CONDITIONS ARE BASED ON INFORMATION PROVIDED BY SITE SURVEY. HOWEVER, IT IS NOT INTENDED TO BE AN EXACT REPRESENTATION OF ACTUAL CONDITIONS. CONTRACTOR SHALL VISIT JOB SITE PRIOR TO BIDDING TO ASCERTAIN EXISTING CONDITIONS AND SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO BID.
- D. ALL CIRCUITS SHOWN SHALL BE 120V, 20A CIRCUITS UNLESS NOTED OTHERWISE.
- E. ALL WIRES SHALL BE #12 AWG UNLESS NOTED OTHERWISE.
- F. ALL 120V RUNS LONGER THAN 60' SHALL BE #10 AWG UNLESS NOTED OTHERWISE ON THE PLANS.
- G. ALL WIRING CONDUCTORS SHALL BE COPPER (#10 AND SMALLER SHALL BE SOLID).
- H. WHERE WIRE SIZES ARE NOTED ON DRAWINGS, THAT WIRE SIZE SHALL BE THROUGH THE ENTIRE RUN UNLESS NOTED OTHERWISE.
- I. CONTRACTOR MAY COMBINE THREE (3) CIRCUITS PER NEUTRAL AND GROUND WIRE EXCEPT AS OTHERWISE NOTED.
- J. ALL ELECTRICAL HOMERUNS FROM PANELBOARD TO FIRST DEVICE SERVED SHALL BE IN EMT CONDUIT UNLESS OTHERWISE PERMITTED BY BUILDING MANAGEMENT/OWNER.
- K. ALL EXISTING CIRCUITS WITHIN THE SCOPE OF WORK AREA THAT ARE NOT REUSED FOR THIS REMODEL SHALL BE REMOVED BACK TO THE PANELS AND THE PLACARDS SHALL INDICATE THE BREAKERS AS SPARES.
- L. PANELBOARD DIRECTORIES SHALL BE COMPLETELY FILLED OUT TO ACCURATELY IDENTIFY EACH CIRCUIT (EXISTING AND NEW CIRCUITS) IN ALL PANELS WITHIN SCOPE OF WORK. OBTAIN BUILDING MANAGEMENT/OWNER'S APPROVAL OF IDENTIFICATION DIRECTORIES SHALL BE TYPED/WRITTEN.
- M. DO NOT MOUNT THE POWER AND/OR TELEPHONE/DATA JUNCTION BOXES BACK TO BACK IN THE WALL.
- N. ALL DEVICES SHALL BE MOUNTED AS INDICATED ON THE ARCHITECTURAL DRAWINGS.
- O. ALL RECEPTACLES MOUNTED IN KITCHENS, RESTROOMS, AT COUNTERS CONTAINING SINKS OUTSIDE THE BUILDING OR SERVING VENDING MACHINES SHALL HAVE GROUND FAULT INTERRUPTER(GFCI) PROTECTION.
- P. ALL DEDICATED CIRCUITS (CIRCUITS SERVING A SINGLE DEVICE) SHALL HAVE SEPARATE NEUTRAL AND GROUND WIRES. THIS REQUIREMENT DOES NOT APPLY TO APPLIANCE CIRCUITS.
- Q. PROVIDE RING AND STRING FROM EACH WALL MOUNTED TELEPHONE/DATA OUTLET.
- R. PROVIDE 3/4" CONDUIT AND PULLSTRING, FROM EACH FLOOR MOUNTED TELEPHONE/DATA OUTLET TO THE NEAREST WALL THEN ROUTE TO 4'-6" ABOVE SUSPENDED CEILING. AT SYSTEMS FURNITURE FEEDS, CONDUIT SHALL BE 1-1/4".
- S. LOW VOLTAGE CABLES (TELEPHONE, DATA, ETC.) INSTALLED IN CEILING SPACE USED FOR RETURN AIR PURPOSES SHALL BE PLENUM RATED CABLES OR INSTALLED IN CONDUIT.
- T. ELECTRIC CONNECTIONS TO PANELBOARDS SHALL BE MADE ONLY WHEN PANELBOARDS HAVE BEEN DE-ENERGIZED. SCHEDULE DOWN TIME WITH BUILDING MANAGEMENT/OWNER.
- U. ELECTRICAL WIRING TO SYSTEMS FURNITURE SHALL BE 8-WIRE/4-CIRCUIT "2+2" CONSISTING OF 2-HOTS, 1-NEUTRAL, 1-COMMON GROUND FOR CONVENIENCE PLUS 2-HOTS, 1-NEUTRAL, 1-ISOLATED GROUND FOR COMPUTERS. THE FIRST CIRCUIT NUMBER SHOWN AT THE FURNITURE SHALL BE FOR THE TASK LIGHTS. THE SECOND CIRCUIT SHALL BE FOR GENERAL CONVENIENCE AND THE UNDERLINED CIRCUIT NUMBERS SHALL BE FOR COMPUTERS. REFER TO KEYED NOTE #1 ON THE POWER PLAN FOR ADDITIONAL INFORMATION.
- V. UNDERLINED CIRCUIT NUMBERS ARE FOR COMPUTER USE AND, OTHER THAN AT SYSTEMS FURNITURE FEEDS, SHALL EACH HAVE INDEPENDENT NEUTRAL AND ISOLATED GROUND WIRES. THE ISOLATED GROUND WIRE SHALL TERMINATE IN AN ISOLATED GROUND BUS IN THE ELECTRIC PANEL. IF THE IG BUS DOES NOT EXIST, CONTRACTOR SHALL PROVIDE NEW BUS WITH ONE (1) #1/0 WIRE IN 3/4" CONDUIT TO GROUNDING SOURCE OF ELECTRIC PANEL.
- W. ALL NEW ELECTRICAL PANELS AND TRANSFORMERS SHALL HAVE PERMANENT ENGRAVED LABELS ON COVER INDICATING PANEL OR TRANSFORMER DESIGNATION.
- X. CONTRACTOR SHALL RELOCATE ELECTRICAL CONNECTIONS ASSOCIATED WITH ALL RELOCATED MECHANICAL EQUIPMENT. REFER TO HVAC AND PLUMBING PLANS AND COORDINATE FINAL LOCATIONS WITH MECHANICAL CONTRACTOR IN THE FIELD.
- Y. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL NOTES, SYMBOLS AND DETAILS.
- Z. CONTRACTOR SHALL PROVIDE A 120V CIRCUIT TO EACH VAV BOX INDICATED ON THE HVAC PLAN FOR CONNECTION OF CONTROLS. CIRCUIT NO MORE THAN FIVE (5) BOXES PER ONE (1) 2D AMP, 120V CIRCUIT.
- AA. CONTRACTOR SHALL PROVIDE HEAT TRACE FOR ALL P-TRAPS. COORDINATE REQUIREMENTS WITH PLUMBING CONTRACTOR.
- AB. RECEPTACLES SHALL BE DECORA STYLE.
- AC. CONTRACTOR SHALL X-RAY SLAB AT ALL PLANNED SLAB PENETRATIONS TO ENSURE PATH IS CLEAR OF ALL OBSTRUCTIONS. CONTRACTOR SHALL ALSO ACCOUNT FOR CONDUITS, LIGHT FIXTURES, SPRINKLER PIPES, ETC IN BASEMENT PARKING BELOW. COORDINATE ACCESS TO SPACE BELOW WITH BUILDING MANAGEMENT.
- AD. CONTRACTOR SHALL COORDINATE AND INCLUDE ALL WORK SHOWN ON SHEET AE-1.



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 SHEET NO.:

E3.00