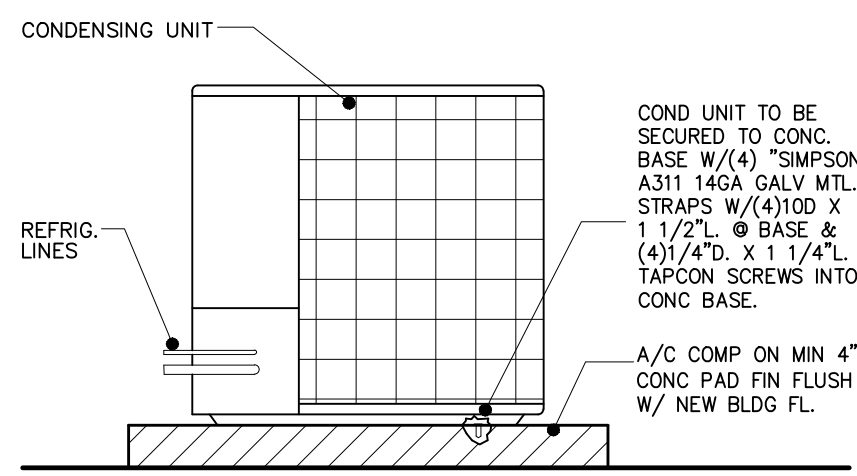


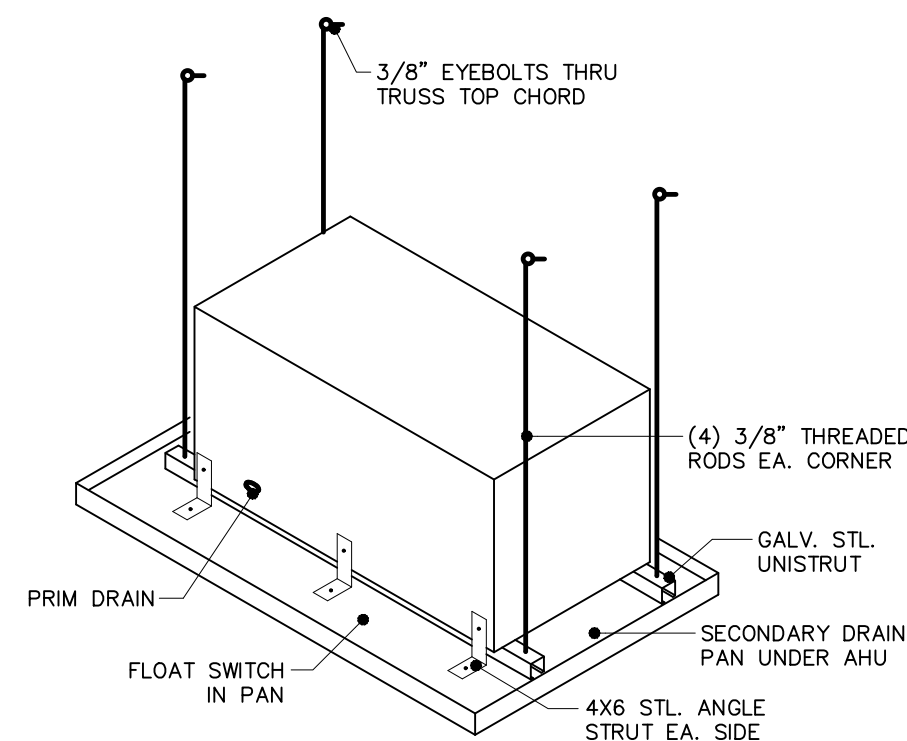
MECHANICAL NOTES:

- ALL WORK SHALL BE IN ACCORDANCE WITH FLORIDA BUILDING CODE.
- CONDENSING LINES SHALL BE MIN. 3/4" THICK PVC (SCHEDULE 40), FROM AIR HANDLING UNIT TO EXTERIOR OF STRUCTURE. ANY WALL PENETRATIONS SHALL BE SEALED. LINE SHALL TERMINATE 12" ABOVE GRADE W/ TURN DOWN ELBOW & BUG SCREEN. CONDENSING LINE SHALL BE TRAPPED IF REQUIRED BY THE EQUIPMENT AND/OR MANUFACTURER, PER F.B.C. M307.
- A.H.U. TO HAVE CONDENSING DRAIN FLOAT SWITCH INSTALLED AT SECONDARY DRAIN LINE TO STOP A.H.U. IN THE EVENT OF OVERFLOW.
- ALL H.V.A.C. PIPING, INCLUSIVE OF VAPOR LINES WITH IN A CONDITIONED SPACE OF THE STRUCTURE, SHALL BE THERMALLY INSULATED, PER F.B.C. 13-611 ABC.1.
- REFRIGERANT LINES SHALL BE TESTED TO 130 LBS. PRESSURE PER F.B.C. M109.
- UNDERCUT 2" ALL INTERIOR DOORS.
- ALL FLEX & DUCT BOARD SHALL BE 1 1/2" THICK & R=6.
- SUPPORT FLEX DUCTS SO AS TO PREVENT SHARP BENDS.
- SEAL ALL DUCT JOINTS WITH TAPE AND MASTIC AS PER FLORIDA ENERGY CODE.
- USE 12" LONG SADDLES BETWEEN DUCT AND HANGERS.
- DUCT LOCATIONS MAY CHANGE DUE TO FILED CONDITIONS.
- SUPPORT RECTANGULAR DUCTS WITH 1" STRAP AND NGLE CLIP AT CORNERS OF DUCTS.
- PROVIDE PROGRAMABLE THERMOSTAT FOR EACH UNIT.
- CHECK ELECTRICAL SERVICE BEFORE ORDERING EQUIPMENT.
- ANCHOR CONDENSING UNITS TO SLAB PER MFR. RECOMMENDED INSTALLATION.
- DRYER VENT MATERIALS 26 GA. MAX. 25' INCLUDING ELBOWS.
- ALL REFRIGERANT PIPING TO BE INSULATED WITH 1/2" THICK WALL.
- ALL P.V.C. FOR EACH A.H.U. TO BE 3/4" SCHEDULE 40.
- EXHAUST DUCTS FOR A DRYER SHALL BE MIN. OF 4" RIGID AND SHALL HAVE A SMOOTH INTERIOR FINISH AND THE MAX. DEVELOPED LENGTH SHALL NOT EXCEED 35'-0". THE MAX. LENGTH OF THE DUCT SHALL BE REDUCED 2 1/2' FT. FOR EA. 45° BEND AND 5' FT. FOR EA. 90° BEND PER F.B.C. M504.6.1 AND F.B.C. R M1502.4.
- DRYER EXHAUST DUCTS SHALL TERMINATE NOT LESS THAN 3 FT. IN NY DIRECTION FROM OPENINGS INTO BUILDINGS F.B.C. R M1502.
- A/C CONTRACTOR SHALL PROVIDE FLEXIBLE DUCT CONNECTIONS TO ALL FANS, A/C UNITS OR MECHANICAL EQUIPMENT, EXCEPT FOR EXHAUST HOODS.



CONDENSING UNIT MOUNTING DETAIL

SCALE: 3/4" = 1'-0"



AHU HANGING DETAIL

N. T. S.

NOTE:
ALLOW SUFFICIENT CLEARANCE FOR INSTALLATION, SERVICE & REPAIR OF AIR HANDLING UNIT

A/C EQUIPMENT:

SYSTEM - 4 -
"RUID"
COND: 14AJM36
AHU: RCFL-H*3824+RGLE-079BRQ?
SEER: 13.0 EER, 16.0 SEER
COOLING: 35,800 BTUH
SENSIBLE: 25,060 BTUH
LATENT: 10,740 BTUH
HEAT: 7.5 KW
DUCT: R-6 FIBERGLASS
LIQUID: 3/8"
SUCTION: 7/8"
* WIND RESISTANCE CALC FOR A/C COMP: (-46#/42#)

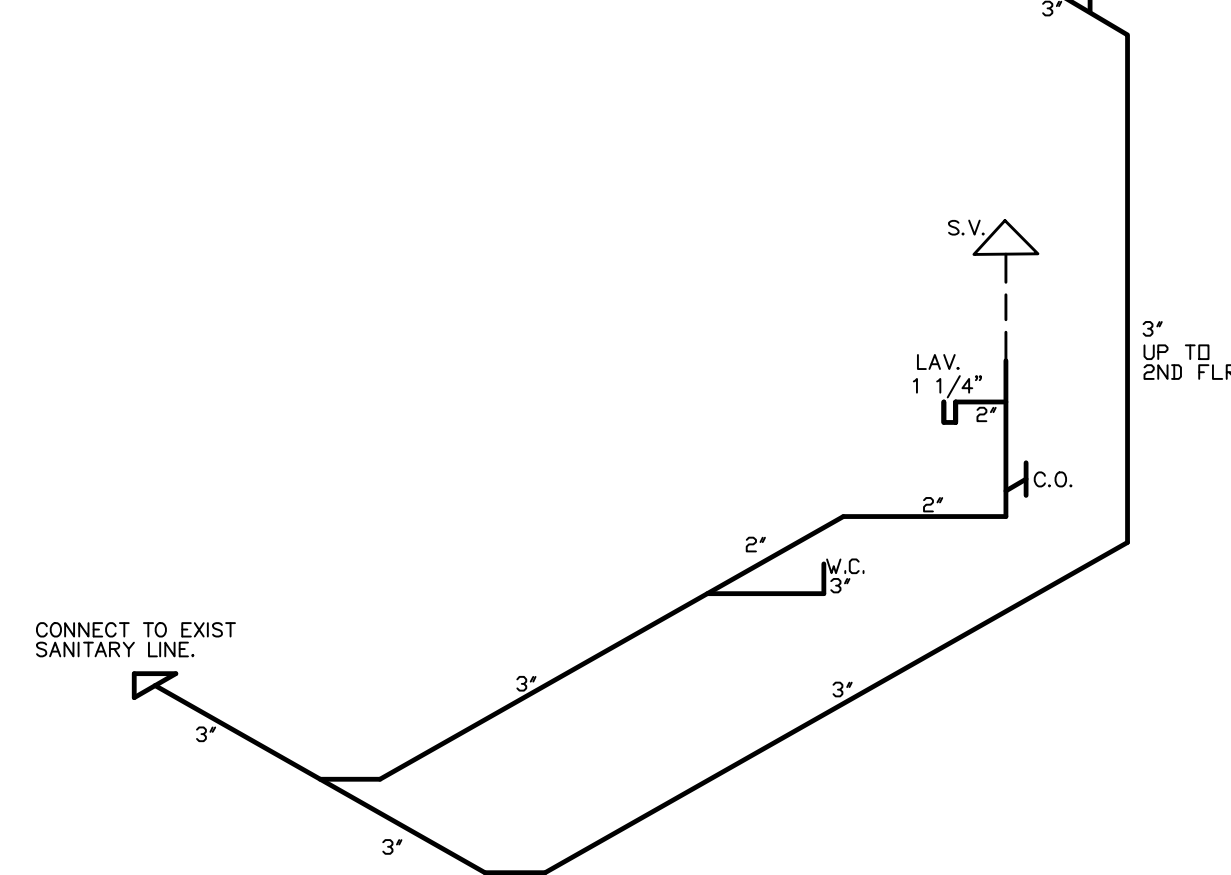
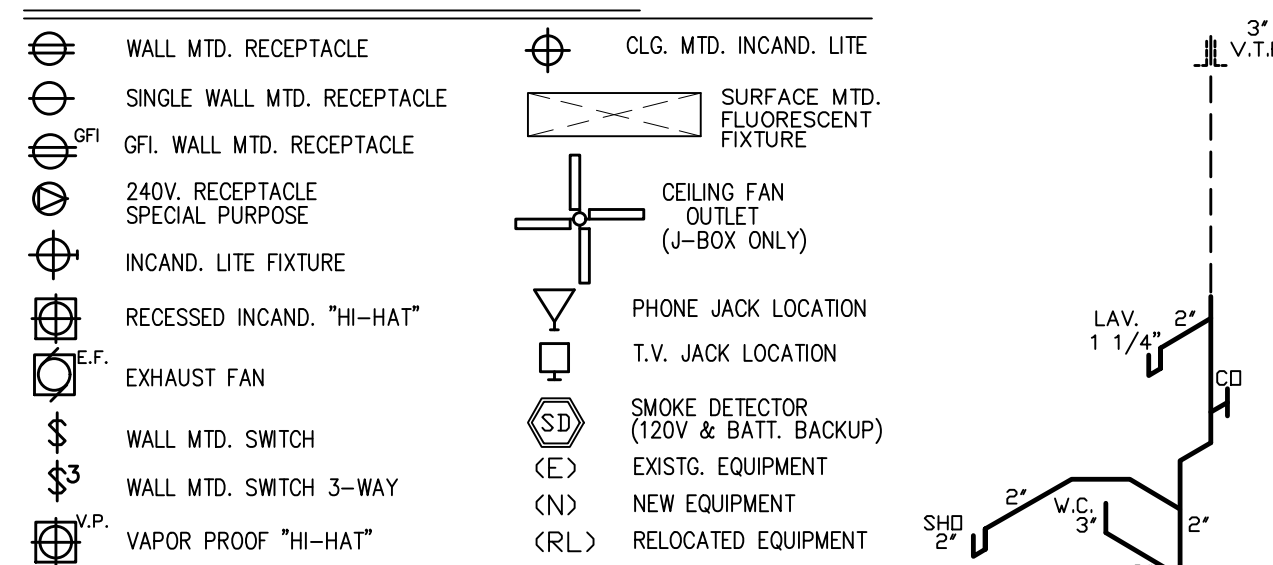
PLUMBING NOTE:

ALL BATHROOMS & CAB. BA. TO HAVE FLOORS & BASES OF TILES OR OTHER IMPERVIOUS MATERIALS
FIRESTOP ALL PLBG. PENETRATIONS OF THE FIRE RATED GARAGE WALLS OR CEILING WITH *3M* (OR EO.) FIRE BARRIER PRODUCTS AND APPLIED AS PER MFR'S. SPECIFICATIONS.
ALL PLBG. FIXTURES TO COMPLY W/ 'FBC' PLUMBING TABLE: 604.4
PROVIDE *ANTISCALD* VALVES @ SHOWER
STEEL STUDS SUPPORTING WALL HUNG PLUMBING FIXTURES SHALL BE DOUBLED OR NOT LESS THAN 20 GAGE WITH A MIN. EFFECTIVE MOMENT OF INERTIA EQUAL TO 0.864 IN. (360 n)
TUB & SHWR. WALL TO BE NON-CORROISIVE IMPERVIOUS MATERIALS MIN. 6' ABOVE RM. FLOOR

TABLE 704.1 SLOPE OF HORIZONTAL DRAIN PIPE SIZE (INCH) MIN SLOPE (IN/FT)		
2-1/2 OR LESS	1/4	
3 TO 6	1/8	
8 OR LARGER	1/16	

NOTE:
ALL NEW PLUMBING FIXTURES TO BE CONNECTED TO EXIST. SAN. LINE LOCATION.

ELECTRIC SYMBOLS



PLUMBING RISER

NO SCALE

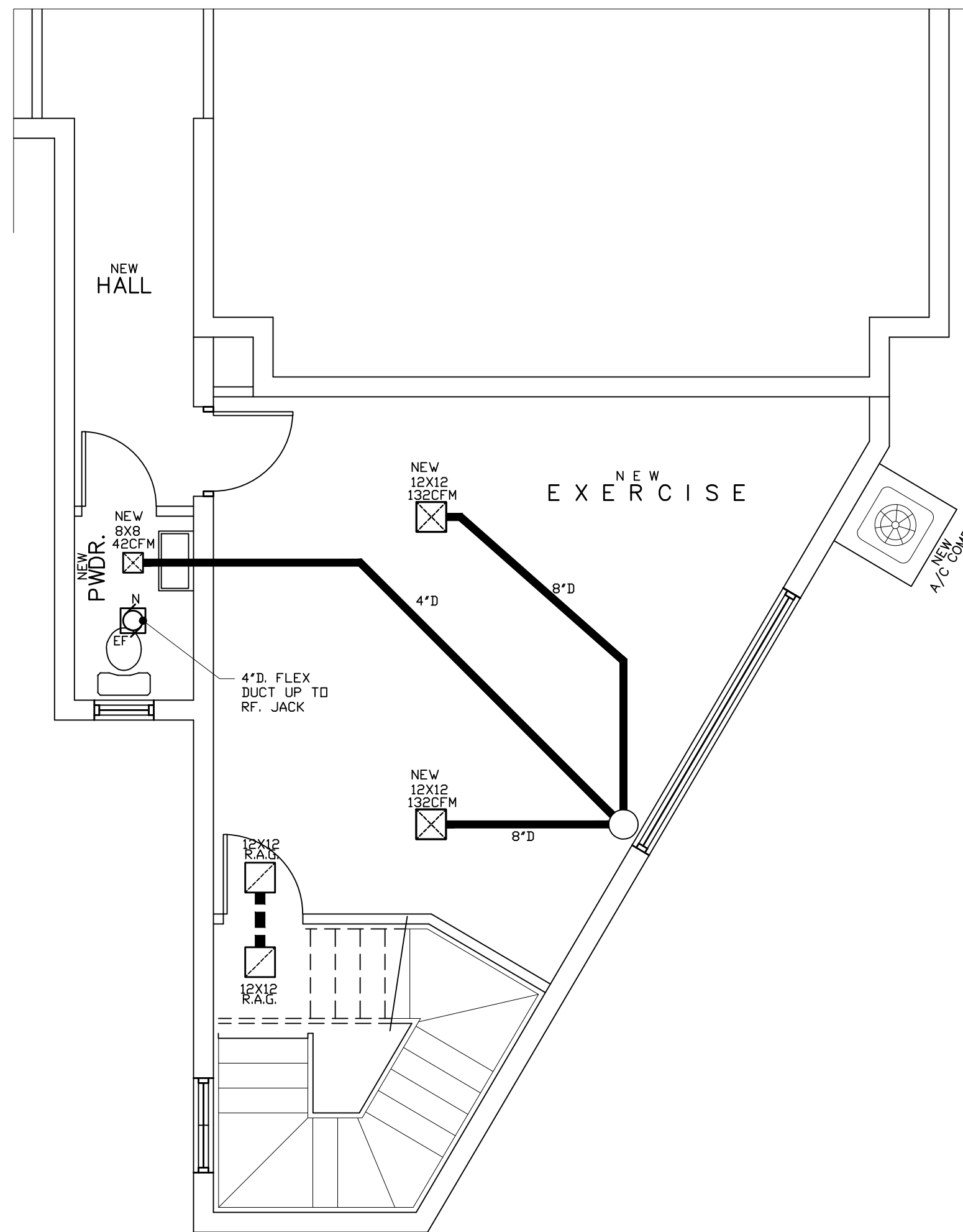
EXIST. PNL 'A' 120/240V 1PH 250 AMP. M.L.D. 42 POLES					
PDS.	FUNCTION	CIRC. BRKR.	POLES	WIRE SIZE	LOAD KVA
1	AHU / HEAT#1	60A	2	#6	10.0
2		60A			
3		60A			
5	SMALL APPLIANCES	20A	1	#12	1.5
7	SMALL APPLIANCES	20A	1	#12	1.5
9	COOK TOP W/RECI. HOOD	50A	2	#6	8.0
11		50A			
13	WATER HEATER #1	25A	2	#12	2.5
15		25A			
17	DISPOSAL	20A	1	#12	0.5
19	DISHWASHER	20A	1	#12	1.0
21	REFRIGERATOR	20A	1	#12	1.2
23	SPRINKLER SYSTEM	20A	1	#12	1.5
25	WASHER	20A	1	#12	1.5
27	LITES/RECEPTACLES	15A	1	#14	*29.0
29	LITES/RECEPTACLES	15A	1	#14	*
31	LITES/RECEPTACLES	15A	1	#14	*
33	LITES/RECEPTACLES	15A	1	#14	*
35	LITES/RECEPTACLES	15A	1	#14	*
37	SPARE				
39	SPARE				
2	A/C CDM#1	40A	2	#8	6.0
4		40A			
6	DRYER	30A	2	#10	5.0
8		30A			
10	PDDL PANEL	60A	2	#6	11.0
12		60A			
14	LITES/RECEPTACLES	15A	1	#14	*
16	LITES/RECEPTACLES	15A	1	#14	*
18	LITES/RECEPTACLES	15A	1	#14	*
20	LITES/RECEPTACLES	15A	1	#14	*
22	LITES/RECEPTACLES	15A	1	#14	*
24	LITES/RECEPTACLES	15A	1	#14	*
26	AHU / HEAT#2	50A	2	#6	7.5
28		50A			
30	A/C CDM #2	40A	2	#8	4.5
32		40A			
34	DOUBLE OVEN	50A	2	#6	7.5
36	NEW SUB PANEL C	50A	2	#6	7.8
38					
40	SPARE				
TOTAL LOADS:					106.9

EXISTING RESIDENCE NON-CONGIDENTIAL LOAD 9,664 SF X 3W = 28,992 W.			
FIRST 10 KW @ 100%	=	10.0 KW	
REMAINDER @ 40%	=	28.0 KW	
HEATING @ 65%	=	10.0 KW	
		48.0 KW	
		= 240V	
		200 AMPS.	

UNIT C

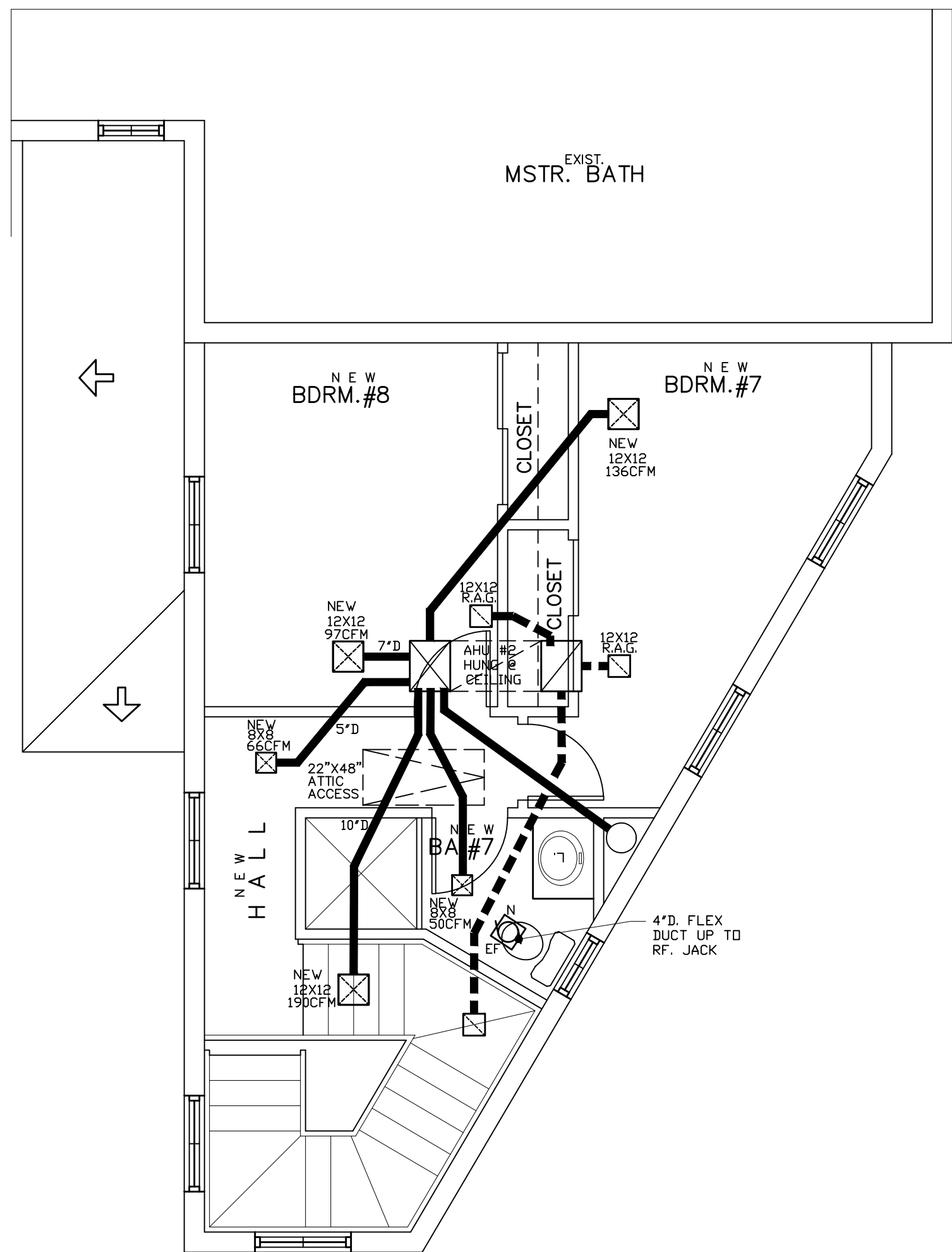
NEW SUB PNL 120/240V 1PH 60 AMP. M.L.D. 16 POLES					
PDS.	FUNCTION	CIRC. BRKR.	POLES	WIRE SIZE	LOAD KVA
1	AHU / HEAT#2	60A	2	#6	5.0
3		60A			
5	NEW BATHS LITES	15A	1	#14	*
7	NEW BATH GFCE RECEPT.	20A	1	#12	1.5
9	BED.7 LITES/RECP.	15A	1	#14	*
11	BED.8 LITES/RECP.	15A	1	#14	*
13	STAIRWAY LITES	15A	1	#14	*
15	SPARE				
2	A/C CDM#2	40A	2	#8	3.5
4		40A			
6	LITES/RECEPTACLES	15A	1	#14	3.0
8	EXTERIOR LITES	15A	1	#14	*
10	SPARE				
12	SPARE				
14	SPARE				
16	SPARE				
TOTAL LOADS:					13.0

EXISTING CONDO NON-CONGIDENTIAL LOAD 992 SF X 3W = 2,976 W.			
FIRST 10 KW @ 100%	=	4.5 KW	
REMAINDER @ 40%	=	0 KW	
HEATING @ 65%	=	7.8 KW	
		= 240V	
		33 AMPS.	



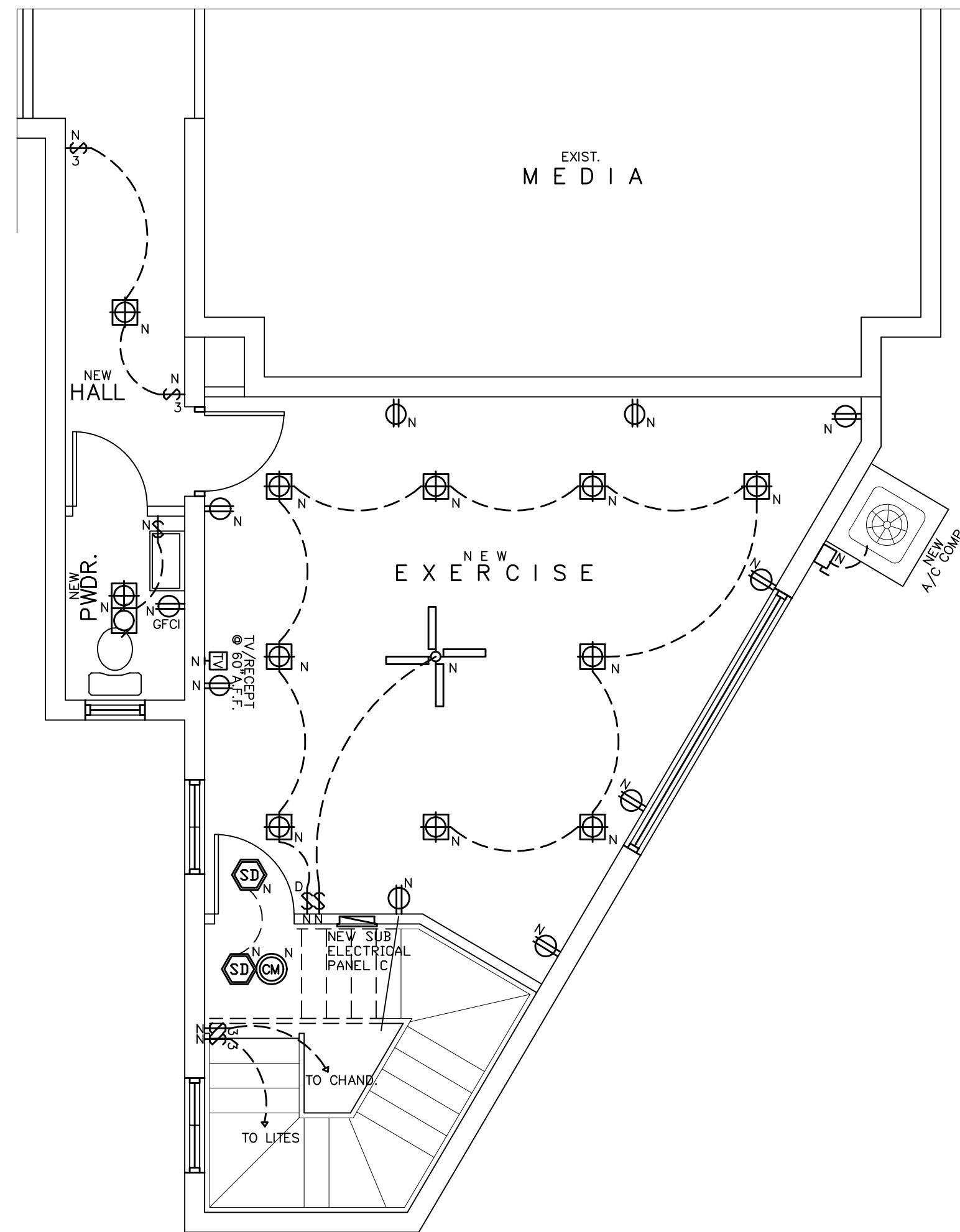
FIRST FLOOR LEVEL MECHANICAL PLAN

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



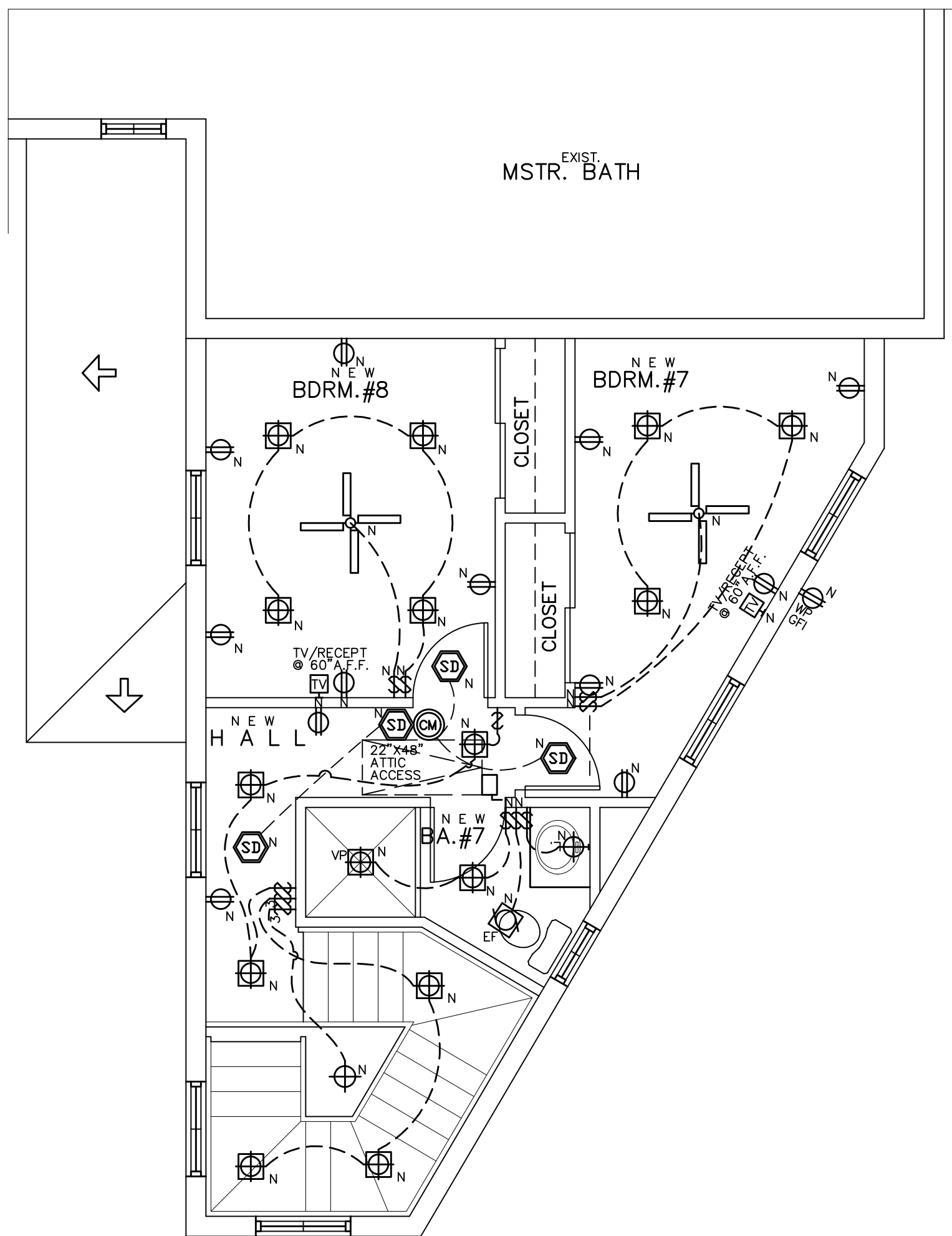
SECOND FLOOR LEVEL MECHANICAL PLAN

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



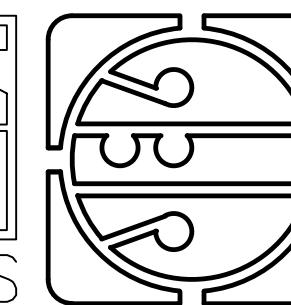
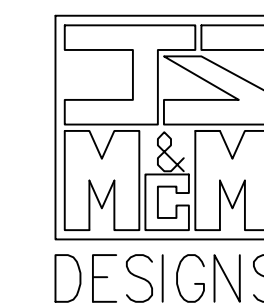
FIRST FLOOR LEVEL ELECTRICAL PLAN

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



SECOND FLOOR LEVEL ELECTRICAL PLAN

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



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REVISIONS:

1. DRAWINGS ARE NOT TO BE SCALED. WRITTEN DIMENSIONS HAVE PRECEDENCE OVER ALL SCALED DIMENSIONS.
2. CONTRACTOR TO VERIFY ALL DIMENSIONS & ADVISE ARCHITECT OF ANY DISCREPANCIES.
3. CONTRACTOR SHALL NOT PROCEED UNTIL SAID DISCREPANCIES HAVE BEEN RESOLVED BY ARCHITECT.
4. ALL DIMENSIONS HAVE BEEN VERIFIED BY THE CONTRACTOR.
5. SHOP DRAWINGS HAVE BEEN REVIEWED & ACCEPTED BY THE ARCHITECT.

RENOVATION TO EXISTING RESIDENCE OF
WALD RESIDENCE
7 7 5 8 TENNYSON C.T.
BOCA RATON, FLORIDA 33433
PALM BEACH COUNTY.

DATE: 15 SEP. '21
PROJECT NO: 20 - 5139
SHEET: 1 of 1
EM

202139 - VALD