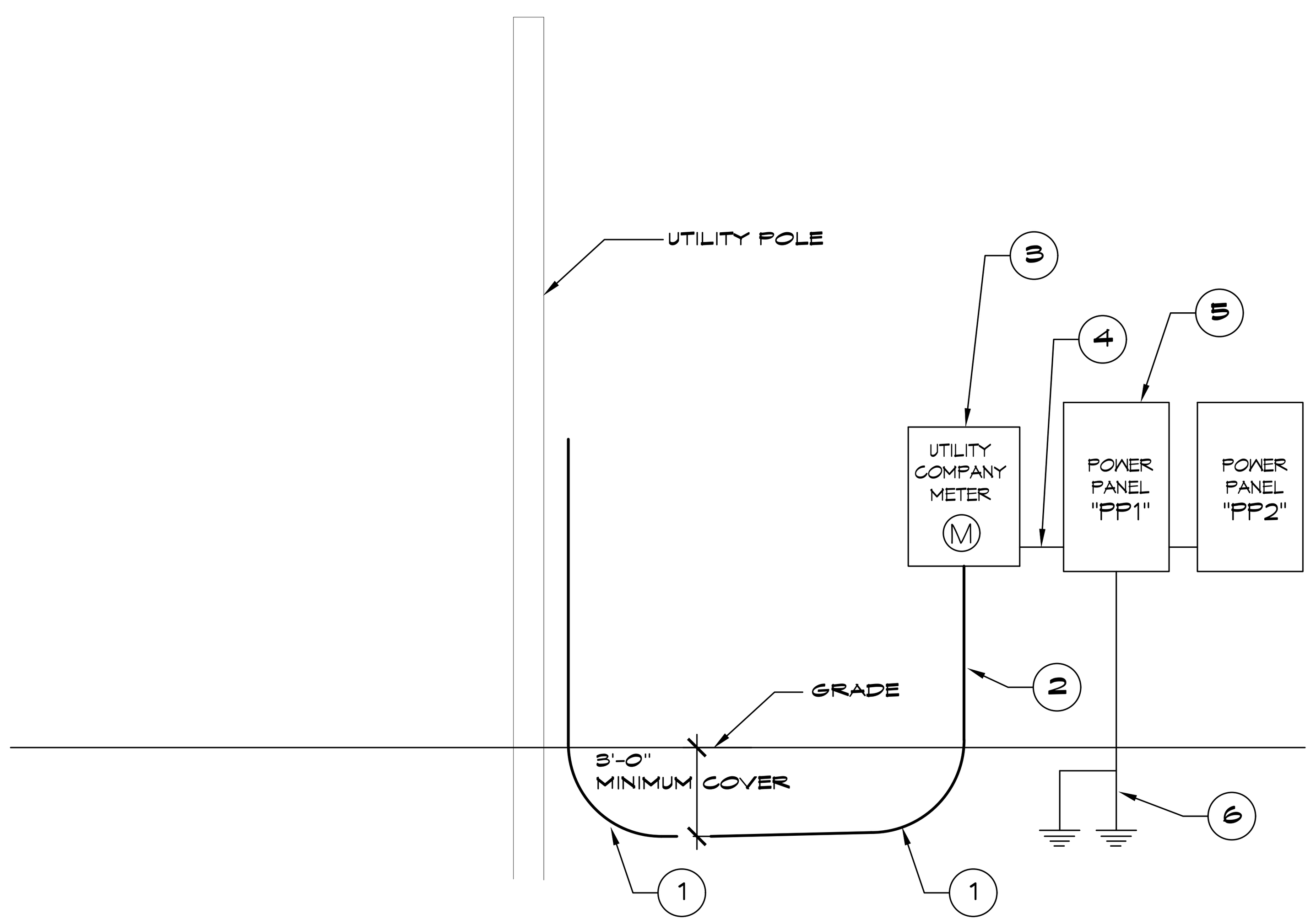

ONE LINE NOTES:

1. 36" LONG SWEEP ELBOW
2. PROVIDE TWO (2) 4" SCHEDULE 40 PVC CONDUIT BELOW GRADE AND SCH 80 PVC CONDUIT ABOVE GRADE WITH SUITABLE FISH WIRE.
3. 120/240V 1Φ 200A METER PAN.
4. 3-500 KCM THHN, 1-#1/0 GND, 2 1/2" C
5. 120/240V 1Φ 400A PANELBOARD WITH MAIN BREAKER.
6. 2 - 3/4" x 10' CU CLAD GND ROD, #2 CU GND WIRE. PROTECT IN PVC PIPE. CONNECT TO METAL BLDG, COLD WATER SUPPLY & GAS LINE. CAD WELD ALL CONNECTIONS.

14 RISER DIAGRAM

SCALE: NONE

ELECTRICAL LOAD SUMMARY

POWER COMPANY:	ENTERGY					
PROJECT NAME:	MINT DENTISTRY					
PROJECT ADDRESS:	19300 N. 4th STREET					
CITY TOWN:	COVINGTON, LOUISIANA					
INTENDED USER:	DOCTOR'S OFFICE					
REQUIRED SERVICE:	240/120	VOLTS	1	PHASE	3	WIRE
SERV ENTR SIZE:	400	AMPS				
HVAC TONNAGE:	15	TONS				
LARGEST MOTOR:		HP	NOTE: MOTORS ABOVE 20 HP MAY REQUIRE REDUCED VOLTAGE STARTING AND ARE NEVER RECOMMENDED FOR USE WITH 240/120V, 1 PH, 3 W SERVICE			
TOTAL BUILDING SQUARE FOOTAGE:			4847	S.F.		
INDIVIDUAL UNIT SQUARE FOOTAGE:			0	S.F.		
INDIVIDUAL UNIT DESIGNATION:				(MULT OCCUPANCY)		

LOAD SOURCE	1Φ KVA	3Φ KVA	OR	1Φ KW	3Φ KW
BUILDING LIGHTING	7.6				
ELECTRIC WATER HEATING	5.0				
HEAT PUMPS	0.0				
SUPPLEMENTAL HEAT SYSTEMS	0.0				
AIR COND CONDENSING UNITS	10.8				
ELEC HEATING (PRIMARY) AHU'S	14.4				
COOKING	N/A				
REFRIGERATION	N/A				
RECEPTACLES (STANDARD)	16.6				
RECEPTACLES (COMPUTER)	N/A				
TOTAL MOTORS (EXCLUDE HVAC)	N/A				
EXTERIOR LIGHTING	0.0				
MISCELLANEOUS - CEILING FANS					
OTHER	43.8				
TOTAL CONNECTED LOAD	98.2	0.0		0.0	0.0

PANEL SCHEDULE

PANEL: PANEL PP1
LOCATION: CORRIDOR
FEEDER SOURCE: UTILITY
VOLTAGE: 120/240V, 400A, 1Φ, 3W
ENCLOSURE: FLUSH MOUNTED, NEMA 1 PNLBD W/EQUIP GND BAR, 400A M/B, 35 KAIC

CKT NO	THHN WIRE SIZE	LOAD DESCRIPTION / LOCATION	BREAKER AMP	BREAKER POLE	LOAD (kva) AΦ/BΦ	LOAD (kva)	BREAKER POLE	BREAKER AMP	LOAD DESCRIPTION / LOCATION	THHN WIRE SIZE	CKT NO
1	#8	HVAC UNIT, AHU #1	40	2	2.4	1.8	2	40	CONDENSER, CU-1	#8	2
3					2.4	1.8					4
5	#8	HVAC UNIT, AHU #2	40	2	2.4	1.8	2	40	CONDENSER, CU-2	#8	6
7					2.4	1.8					8
9	#8	HVAC UNIT, AHU #3	40	2	2.4	1.8	2	40	CONDENSER, CU-3	#8	10
11					2.4	1.8					12
13	#10	WATER HEATER	30	2	2.5	1.4	2	20	DEDICATED CIRCUIT FOR DRY VACUUM SYSTEM	#10	14
15					2.5	1.4					16
17	#8	DEDICATED CIRCUIT, FOR COMPRESSOR, MECHANICAL DENTAL ROOM	40	2	2.5	1.4	2	20	DEDICATED CIRCUIT FOR DRY VACUUM SYSTEM	#10	18
19					2.5	1.4					20
21	#4/0	PANEL "PP2"	200	2	12.5	1.5	2	20	DEDICATED RECEPTACLE FOR PAN/CEPH	#12	22
23					11.3	1.5					24
25						0.8	1	20	DEDICATED RECEPTACLE, PAN CEPH ROOM	#12	26
27											28
29											30
31											32
33											34
35											36
37											38
39											40
41											42

SOLID NEUTRAL / NEUTRAL WIRE (W) — TOTAL CONNECTED LOAD = 68.4 KVA — AΦ = 35.2 KVA — BΦ = 33.2 KVA — GROUND BUS / GROUND WIRE (G)

PANEL SCHEDULE

PANEL: PANEL PP2
LOCATION: CORRIDOR
FEEDER SOURCE: UTILITY
VOLTAGE: 120/240V, 200A, 1Φ, 3W
ENCLOSURE: FLUSH MOUNTED, NEMA 1 PNLBD W/EQUIP GND BAR, MAIN LUGS ONLY, 35 KAIC

CKT NO	THHN WIRE SIZE	LOAD DESCRIPTION / LOCATION	BREAKER AMP	BREAKER POLE	LOAD (kva)	LOAD (kva)	BREAKER POLE	BREAKER AMP	LOAD DESCRIPTION / LOCATION	THHN WIRE SIZE	CKT NO
1	#12	LIGHTS, TR ROOMS	20	1	1.0	0.2	1	20	RECEPTACLE, OUTSIDE BY CONDENSER UNITS	#12	2
3	#12	LIGHTS, TR ROOMS	20	1	1.0	1.1	1	20	RECEPTACLES, TR ROOMS AND STERILIZATION	#12	4
5	#12	LIGHTS, STERILIZATION, AND CORRIDOR	20	1	0.4	1.3	1	20	RECEPTACLES, TR ROOMS	#12	6
7	#12	LIGHTS, CORRIDOR	20	1	0.3	1.3	1	20	RECEPTACLES, TR ROOMS	#12	8
9	#12	LIGHTS, BREAK ROOM, BATHROOM AND OFFICE	20	1	0.5	1.3	1	20	RECEPTACLES, TR ROOMS	#12	10
11	#12	LIGHTS, ORTHO BAY	20	1	0.8	0.2	1	20	DEDICATED RECEPTACLE, REAR OFFICE	#12	12
13	#12	LIGHTS, RECEPTION AND CORRIDOR	20	1	0.7	0.2	1	20	DEDICATED RECEPTACLE, REAR OFFICE	#12	14
15	#12	RECEPTACLES, BUISINESS OFFICE, BATHROOM	20	1	0.7	0.2	1	20	DEDICATED RECEPTACLE, REAR OFFICE	#12	16
17	#12	RECEPTACLES, OFFICES AND MECHANICAL ROOM	20	1	0.6	1.5	1	20	DEDICATED RECEPTACLE, KITCHEN COUNTER	#12	18
19	#12	LIGHTS, TR ROOMS AND CORRIDOR	20	1	0.6	0.3	1	20	RECEPTACLES, KITCHEN COUNTER	#12	20
21	#12	SIGN LIGHTING	20	1	1.0	1.0	1	20	RECEPTACLE, REFRIGERATOR	#12	22
23	#12	DEDICATED RECEPTACLE, BUISINESS OFFICE	20	1	0.2	0.2	1	20	RECEPTACLE, REAR WALL	#12	24
25	#12	DEDICATED RECEPTACLE, BUISINESS OFFICE	20	1	0.2	1.3	1	20	RECEPTACLES, ORTHO BAY, BATHROOM AND CLOSET	#12	26
27	#12	DEDICATED RECEPTACLE, BUISINESS OFFICE	20	1	0.2	1.3	1	20	RECEPTACLES, ORTHO BAY AND RECEPTION	#12	28
29	#12	DEDICATED RECEPTACLE, BUISINESS OFFICE	20	1	0.2	0.2	1	20	DEDICATED RECEPTACLE, BUISINESS OFFICE	#12	30
31	#12	DEDICATED RECEPTACLE, MIDDLE OFFICE REAR	20	1	0.2	0.2	1	20	DEDICATED RECEPTACLE, BUISINESS OFFICE	#12	32
33	#12	DEDICATED RECEPTACLE, MIDDLE OFFICE REAR	20	1	0.2	0.9	1	20	RECEPTACLES, RECEPTION AND REST ROOMS	#12	34
35	#12	DEDICATED RECEPTACLE, MIDDLE OFFICE REAR	20	1	0.2	1.3	1	20	RECEPTACLES, LAB AND CLOSET	#12	36
37	#12	DEDICATED RECEPTACLE, MIDDLE OFFICE FRONT	20	1	0.2	0.2	1	20	DEDICATED RECEPTACLE, FRONT OFFICE	#12	38
39	#12	DEDICATED RECEPTACLE, MIDDLE OFFICE FRONT	20	1	0.2	0.2	1	20	DEDICATED RECEPTACLE, FRONT OFFICE	#12	40
41	#12	DEDICATED RECEPTACLE, MIDDLE OFFICE FRONT	20	1	0.2	0.2	1	20	DEDICATED RECEPTACLE, FRONT OFFICE	#12	42

SOLID NEUTRAL / NEUTRAL WIRE (W) — TOTAL CONNECTED LOAD = 23.8 KVA — AΦ = 12.5 KVA — BΦ = 11.3 KVA — GROUND BUS / GROUND WIRE (G)

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REVISIONS
#	DESCRIPTION	DATE

SEAL:

RENOVATION
ACTION PHYSICAL THERAPY & SPORTS MEDICINE
107 SOUTH MILITARY RD, SLIDELL, LA 70461

JOB No:
DATE: 10-27-2021
DRAWN BY: AEP
CHECKED BY: CKD

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SHEET TITLE:
PANEL SCHEDULE, ONE LINE DIAGRAM AND ELEC. LOAD SUMMARY

DRAWING NUMBER:
E102