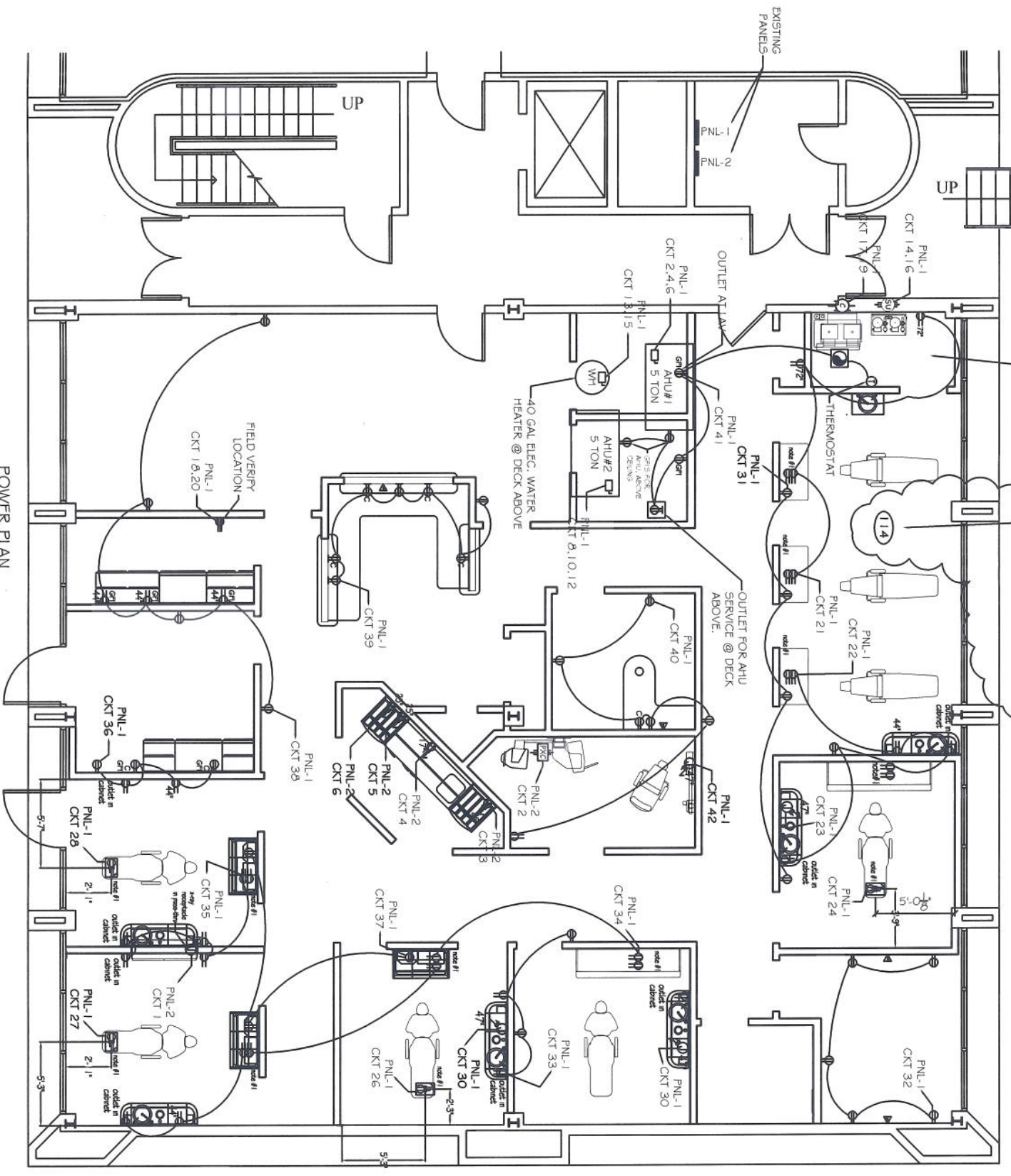


NEW AC COMPRESSOR UNITS SHALL BE LOCATED ON ROOF

ALL VACUUM AND COMPRESSOR UNITS MUST BE INSTALLED AND OPERATED IN A THERMOSTATICALLY OR OTHERWISE STABLE AMBIENT TEMPERATURE ENVIRONMENT. FORCED AIR AND HVAC INPUT MUST BE USED IN ADDITION TO AN EXHAUST FAN IN ORDER TO REGULATE AMBIENT TEMPERATURES OF THE ROOM WHICH HOUSES THESE PIECES OF EQUIPMENT.

ALL OUTLETS IN RM 114 SHALL BE ON CONSTANT BATTERY BACK UP SOURCE.



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

POWER PLAN LEGEND

SYML	DESCRIPTION	SYML	DESCRIPTION
⊖	STANDARD 120V DUPLEX RECEPTACLE @ 18" AFF (UNLESS NOTED)	⊖	QUAD CAT 5 JACK WITH FACEPLATE NETWORKING CONNECTION
⊖	CGI RECEPTACLE	⊖	POWER DISCONNECT
⊖	ALL OUTLETS WITHIN 48" OF A WATER SOURCE SHALL BE CGI	⊖	ELECTRIC WATER HEATER
⊖	RECEPTACLE ABOVE COUNTER HEIGHT	⊖	SIZE AS NOTED
⊖	STANDARD 220V DUPLEX RECEPTACLE @ 18" AFF (UNLESS NOTED)	⊖	AIR CONDITIONING COND. UNIT SET ABOVE SHEETS FOR UNIT DETAILS
⊖	STANDARD 120V DUPLEX RECEPTACLE @ 18" AFF (UNLESS NOTED)	⊖	STANDARD 120V DUPLEX RECEPTACLE ABOVE CEILING

PATTERSON DENTAL ELECTRICAL NOTES

SEE PLANS BY PATTERSON DENTAL ELECTRICAL SPECIFICATIONS

- ON THE DAY OF DENTAL EQUIPMENT INSTALLATION, THE ELECTRICIAN MUST BE ON THE JOB TO MAKE FINAL CONNECTIONS WHERE NECESSARY. CIRCUIT BREAKER PANEL FOR THE SUITE TO BE LOCATED IN SUITE AND CONVENIENTLY ACCESSIBLE. ALL ELECTRICAL LINES TO BE CONCEALED. PROVIDE PROPER EMERGENCY LIGHTING AND LIGHTED EXIT SIGNS AS REQUIRED BY LOCAL CODES.
- ELECTRICIAN SHALL PROVIDE POWER FOR WATER HEATER. SEE CONTRACTOR FOR LOCATION.
- ELECTRICIAN SHALL PROVIDE POWER FOR PHONE BOARD. SEE CONTRACTOR FOR LOCATION.
- ELECTRICIAN SHALL PROVIDE POWER FOR HVAC SYSTEM. SEE CONTRACTOR FOR LOCATION.
- ELECTRICIAN SHALL PULL THE FOLLOWING CABLES WHERE APPLICABLE: CAMERA SYSTEM (SUPPLIED BY PATTERSON DENTAL CO), COMPUTER SYSTEM (SUPPLIED BY DOCTOR), CPU SYSTEM, PER CIRCUIT, SEPARATE CIRCUITS WITH NO MORE THAN FIVE COMPUTERS PER CIRCUIT.
- DENTAL UNIT - SEPARATE CIRCUIT, 115 VOLTS, 20 AMPS (PER TREATMENT AREA). INSTALL RIGID OR FLEX CONDUIT WITH CONNECTOR TO QUAD OUTLET.
- DEDICATED RECEPTACLE - SEPARATE CIRCUIT 115 VOLT, 20 AMPS.
- AIR COMPRESSOR - SEPARATE CIRCUIT, 230 VOLTS, 20 AMPS, SINGLE PHASE, 3 #10 WIRES, INSTALL 18" ABOVE FLOOR. SEE MANUFACTURER'S SPECIFICATIONS.
- SUCTION UNIT RECEPTACLE - SEPARATE CIRCUIT, 230 VOLTS, 20 AMPS, SINGLE PHASE, 3#10 WIRES, INSTALL 24" ABOVE FLOOR. SEE MANUFACTURER'S SPECIFICATIONS.
- MOTOR CHAIR RECEPTACLE - 115 VOLTS, 6 AMPS, RECESSED FLOOR TYPE RECEPTACLE, WHERE DESIGNATED.
- 230 VOLT OUTLET - PROVIDE 230 VOLT OUTLET, 20 AMPS HEIGHT AS NOTED.
- DUPLEX WALL RECEPTACLE - INSTALL WITH GROUND PIN, HEIGHT @ 18" UNLESS DESIGNATED OTHERWISE.
- X-RAY RECEPTACLE - SEPARATE CIRCUIT, 115 VOLTS, 20 AMPS, INSTALL SINGLE DEDICATED CIRCUIT, HEIGHT AS SPECIFIED, MUST BE GROUNDED TO PANEL. SEE MANUFACTURER'S SPECIFICATIONS.
- EXHAUST FAN - INSTALL CONCEALED WIRE TO WALL SWITCH, EXHAUST FAN IN DARK ROOM TO BE LIGHT PROOF, SUPPLIED AND INSTALLED BY ELECTRICIAN.
- PANORAMIC X-RAY CONTROL RECEPTACLE - SEPARATE CIRCUIT, 115 VOLTS, 20 AMPS RECEPTACLE, RECEPTACLE LOCATED 12" ABOVE FLOOR AT LOCATION DESIGNATED.

NOTE #1 - SEE A PATTERSON DENTAL REPRESENTATIVE FOR LIFE-SIZE TEMPLATES OR EXPLANATION AND LOCATION OF DENTAL UNIT REQUIREMENTS.

NOTE #2 - PROVIDE CIRCUIT FOR COMPUTERS WITH NO MORE THAN FIVE COMPUTERS PER CIRCUIT. COMPUTER CIRCUITS TO BE SEPARATE FROM CIRCUITS POWERING TREATMENT CONSOLES, CUSTOM CABINETS, AND ANGLULAR DENTAL EQUIPMENT LOCATED IN CONSOLES OR CUSTOM CABINETS.

NOTE #3 - PROVIDE POWER SHOWN WITH NO OUTLET NECESSARY. EXTEND WIRES IN FLEXIBLE CONDUIT TO BOX PROVIDED WITH CABINET OR WALL MOUNTED LIGHT.

59D - SUPPLIED BY DOCTOR. HOWEVER, WHERE THESE ITEMS APPEAR, ELECTRICIAN SHALL PROVIDE LABOR AND MATERIAL TO INSURE PROPER INSTALLATION.

ALL ADDITIONAL CONVENIENCE OUTLETS TO BE PLACED BY DOCTOR.

ELECTRICAL NOTES

1. ALL WORK SHALL CONFORM TO THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE, THE GOVERNING ELECTRICAL CODE AND ALL APPLICABLE LOCAL ORDINANCES.
2. ALL MATERIALS INDICATED SHALL BE NEW AND SHALL BE U.L. LISTED.
3. THE DRAWINGS INDICATED SIZE AND GENERAL LOCATION OF WORK. SCALE DIMENSIONS SHALL NOT BE USED. THE EXACT LOCATION AND LOCATION OF ALL LIGHTING FIXTURES, RECEPTACLES AND TELEPHONE OUTLETS, ETC. SHALL BE DETERMINED BY ACTUAL CONDITIONS IN THE FIELD.
4. PRIOR TO BIDDING, CONTRACTOR SHALL VISIT THE JOB SITE AND FAMILIARIZE THEMSELVES WITH THE EXISTING CONDITIONS.
5. ELECTRICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES AND WITH OTHER CONTRACTORS WHOSE WORK MAY AFFECT THIS INSTALLATION.
6. ELECTRICAL CONTRACTOR SHALL COORDINATE INCOMING ELECTRICAL SERVICE WITH UTILITY COMPANY AND INCLUDE IN HIS BID ALL NECESSARY PERMITS AND MODIFICATIONS.
7. WHERE MORE THAN ONE SWITCH OCCURS IN THE SAME LOCATION, THEY SHALL BE INSTALLED IN A GANG-TYPE BOX UNDER ONE COVER PLATE.
8. ELECTRICAL CONTRACTOR SHALL COORDINATE THE TELEPHONE INSTALLATION WITH THE TELEPHONE COMPANY AND THE GENERAL CONTRACTOR.
9. ELECTRICAL CONTRACTOR, BEFORE INSTALLING ANY OF THE WORK, SHALL SEE THAT IT DOES NOT INTERFERE WITH CLEARANCES REQUIRED FOR FINISHED COLUMNS, HUNG CEILINGS, PLASTER, PARTITIONS, WALLS, ETC. AS SHOWN IN THE ARCHITECTURAL DRAWINGS AND DETAILS. IF ANY WORK IS INSTALLED AND IT LATER DEVELOPS THAT SUCH DETAILS OR DESIGN CANNOT BE MAINTAINED, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY AND SHALL BE RESPONSIBLE FOR CORRECTING THE SAME AS SHOWN ON THE PLANS AS AND ORDERED BY THE ARCHITECT.
10. PERSONNEL TESTS REQUIRED BY THE OWNER OR THE ENGINEER IN CONNECTION WITH THE OPERATION OF THE ELECTRICAL SYSTEM IN THE BUILDING.
11. ALL TESTS SHALL BE MADE IN ACCORDANCE WITH THE LATEST STANDARD OF THE IEEE AND THE NATIONAL ELECTRICAL CODE.
12. MINIMUM CONDUCTOR SIZE SHALL BE #12, 600V INSULATION. MINIMUM SIZE CONDUIT SHALL BE 3/4" EMT FOR INTERIOR USE, AND 1 1/2" RIGID ALUMINUM FOR EXTERIOR USE. USE TYPE NMC CABLE COFFER FOR LIGHTS AND RECEPTACLE CIRCUITS. EXTERIOR FITTINGS SHALL BE CAST BOXES AND COVERS. INTERIOR FITTINGS SHALL BE CAST WATERTIGHT EXPOSED OR WALLS, STAMPED BOXES WITH GROUNDING LUGS AND COVERS IN RAK CONVENTIONAL SPACES, WHERE LAY IN EXCLUDED ARE IN USE, USE 1/2" E ALLOWED FOR 6" WIDTH.
13. CONTRACTOR SHALL INSTALL WIRING AND OTHER CIRCUIT COMPONENTS TO MATCH EQUIPMENT ACTUALLY INSTALLED.
14. INSTALL GROUND FAULT RECEPTACLES AT RECEPTACLE LOCATIONS WITHIN 5' OF SINKS OR LAVATORIES, AND AT EXTERIOR LOCATIONS. EXTERIOR RECEPTACLES SHALL ALSO BE WATERPROOF.
15. BONDING AND GROUNDING SHALL BE IN ACCORDANCE WITH NFPA 70:250-63, NFPA 70:250-71 & 250-72.
16. GROUND NEUTRAL IN ACCORDANCE WITH NFPA 70:250-23B.
17. FUSES SHALL BE THE CLASS 45, 250 VOLT, 2000 AMP INTERRUPTING CAP.
18. REQUIREMENTS OF THE STATE FIRE MARSHAL'S OFFICE AND ALARM COMPANY TO DESIGN AND INSTALL ALARM SYSTEM TO MEET ALL CITY AND COUNTY REQUIREMENTS SHALL BE SHOWN ON THE PLANS AND SHALL BE SHOWN ON THE PLANS AS AND ORDERED BY THE ARCHITECT.
19. EXTERIOR LIGHTING SHALL BE SHARED OR INWARDLY DIRECTED IN SUCH A MANNER SO THAT NO DIRECT LIGHTING OR GLARE IS CAST BEYOND THE PROPERTY LINE. THE INTENSITY OF SUCH LIGHTING SHALL NOT EXCEED ONE FOOT CANDLE AS MEASURED AT THE ADJUTING PROPERTY LINE.
20. ALL ELECTRICAL, MECHANICAL AND PLUMBING PENETRATING FIRE PARTITIONS SHALL BE FIRE CAULKED. (PENETRATIONS THROUGH RATED CONSTRUCTION SHALL BE SEALED WITH A MATERIAL CAPABLE OF PREVENTING THE PASSAGE OF FLAMES AND HOT GASES WHEN TESTED IN ACCORDANCE WITH ASTM E-814.)



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NEW DENTAL  
OFFICE

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ARCHITECTURE  
ENGINEERING  
STUDIES  
PLANNING  
INVESTIGATION  
EXPERT WITNESS

REV:05-01-12

SCALE: AS NOTED

JOB#: 2130

DATE: 02-15-12

SHEET 8

E-1

NOTE:  
SEE EQUIPMENT SUPPLIER PLANS AND DETAILS  
FOR DENTAL EQUIPMENT ELECTRICAL  
REQUIREMENTS.



**DAMMON ENGINEERING, INC.**  
 CHIEF ENGINEER  
 DAMON, P.E.  
 CHIEF ARCHITECT  
 ROBERT WILTSE

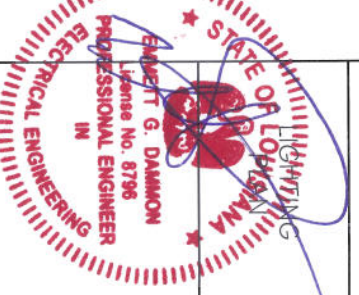
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SHEET 9

E-2

OF 11

LABEL	DESCRIPTION	MANUFACTURER PRODUCT #	LAMPS	QTY
F1	2x4 RECESSED FLOURESCENT 3x PARABOLIC TROPPER SURFACE MOUNTED FLOURESCENT	LITHONIA LIGHTING LITHON 9960 LHG	3-18 32W FLOURESCENT 120V 1-13W FLOURESCENT 120V	16
F2	COMMERCIAL WALL BRACKET 24" LONG	LITHONIA LIGHTING WC 2 117 MWLT GEB 1015	2-18 17W FLOURESCENT 120V	5
EM	EMERGENCY EGRESS LIGHT W/ 90 MIN. BATTERY BACKUP	ELFP LIGHTING ELM2	2-5.4W HALOGEN	
EX	WALL MOUNTED LED EXIT SIGN	ELFP LIGHTING XE2 R WE EM	LED	
EX1	WALL MOUNTED LED EXIT SIGN W/ REMOTE HEAD	ELFP LIGHTING XE2 R WE EM RC RHW-WP1, GV 7.2W	LED 7.2W REMOTE HEAD	

NOTES:  
 1. CONNECT ALL EMERGENCY / EXIT LIGHT FIXTURES TO NEAREST CONSTANT POWER SOURCE.

NO.	TRNG SIZE	LOCATION	TERMINAL	WIRE	CONDUCTOR	TERMINAL	WIRE	CONDUCTOR	TRNG SIZE
1	#10	WALL COMPRESSOR UNIT	40	3	440	3	32	AWG #12 THHN 1500V RHW-2	4
2	#10	WALL COMPRESSOR UNIT	40	3	440	3	32	AWG #12 THHN 1500V RHW-2	4
3	#10	WALL COMPRESSOR UNIT	40	3	440	3	32	AWG #12 THHN 1500V RHW-2	4
4	#10	WALL COMPRESSOR UNIT	40	3	440	3	32	AWG #12 THHN 1500V RHW-2	4
5	#10	WALL COMPRESSOR UNIT	40	3	440	3	32	AWG #12 THHN 1500V RHW-2	4
6	#10	WALL COMPRESSOR UNIT	40	3	440	3	32	AWG #12 THHN 1500V RHW-2	4
7	#10	WALL COMPRESSOR UNIT	40	3	440	3	32	AWG #12 THHN 1500V RHW-2	4
8	#10	WALL COMPRESSOR UNIT	40	3	440	3	32	AWG #12 THHN 1500V RHW-2	4
9	#10	WALL COMPRESSOR UNIT	40	3	440	3	32	AWG #12 THHN 1500V RHW-2	4
10	#10	WALL COMPRESSOR UNIT	40	3	440	3	32	AWG #12 THHN 1500V RHW-2	4
11	#10	WALL COMPRESSOR UNIT	40	3	440	3	32	AWG #12 THHN 1500V RHW-2	4
12	#10	WALL COMPRESSOR UNIT	40	3	440	3	32	AWG #12 THHN 1500V RHW-2	4
13	#10	WALL COMPRESSOR UNIT	40	3	440	3	32	AWG #12 THHN 1500V RHW-2	4
14	#10	WALL COMPRESSOR UNIT	40	3	440	3	32	AWG #12 THHN 1500V RHW-2	4
15	#10	WALL COMPRESSOR UNIT	40	3	440	3	32	AWG #12 THHN 1500V RHW-2	4
16	#10	WALL COMPRESSOR UNIT	40	3	440	3	32	AWG #12 THHN 1500V RHW-2	4
17	#10	WALL COMPRESSOR UNIT	40	3	440	3	32	AWG #12 THHN 1500V RHW-2	4
18	#10	WALL COMPRESSOR UNIT	40	3	440	3	32	AWG #12 THHN 1500V RHW-2	4
19	#10	WALL COMPRESSOR UNIT	40	3	440	3	32	AWG #12 THHN 1500V RHW-2	4
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21	#10	WALL COMPRESSOR UNIT	40	3	440	3	32	AWG #12 THHN 1500V RHW-2	4
22	#10	WALL COMPRESSOR UNIT	40	3	440	3	32	AWG #12 THHN 1500V RHW-2	4
23	#10	WALL COMPRESSOR UNIT	40	3	440	3	32	AWG #12 THHN 1500V RHW-2	4
24	#10	WALL COMPRESSOR UNIT	40	3	440	3	32	AWG #12 THHN 1500V RHW-2	4
25	#10	WALL COMPRESSOR UNIT	40	3	440	3	32	AWG #12 THHN 1500V RHW-2	4
26	#10	WALL COMPRESSOR UNIT	40	3	440	3	32	AWG #12 THHN 1500V RHW-2	4
27	#10	WALL COMPRESSOR UNIT	40	3	440	3	32	AWG #12 THHN 1500V RHW-2	4
28	#10	WALL COMPRESSOR UNIT	40	3	440	3	32	AWG #12 THHN 1500V RHW-2	4
29	#10	WALL COMPRESSOR UNIT	40	3	440	3	32	AWG #12 THHN 1500V RHW-2	4
30	#10	WALL COMPRESSOR UNIT	40	3	440	3	32	AWG #12 THHN 1500V RHW-2	4
31	#10	WALL COMPRESSOR UNIT	40	3	440	3	32	AWG #12 THHN 1500V RHW-2	4
32	#10	WALL COMPRESSOR UNIT	40	3	440	3	32	AWG #12 THHN 1500V RHW-2	4
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99	#10	WALL COMPRESSOR UNIT	40	3	440	3	32	AWG #12 THHN 1500V RHW-2	4
100	#10	WALL COMPRESSOR UNIT	40	3	440	3	32	AWG #12 THHN 1500V RHW-2	4

NO.	TRNG SIZE	LOCATION	TERMINAL	WIRE	CONDUCTOR	TERMINAL	WIRE	CONDUCTOR	TRNG SIZE
1	#12	WALL RECEPTACLE	20	1	1200	1	20	AWG #12 THHN 1500V RHW-2	3
2	#12	WALL RECEPTACLE	20	1	1200	1	20	AWG #12 THHN 1500V RHW-2	3
3	#12	WALL RECEPTACLE	20	1	1200	1	20	AWG #12 THHN 1500V RHW-2	3
4	#12	WALL RECEPTACLE	20	1	1200	1	20	AWG #12 THHN 1500V RHW-2	3
5	#12	WALL RECEPTACLE	20	1	1200	1	20	AWG #12 THHN 1500V RHW-2	3
6	#12	WALL RECEPTACLE	20	1	1200	1	20	AWG #12 THHN 1500V RHW-2	3
7	#12	WALL RECEPTACLE	20	1	1200	1	20	AWG #12 THHN 1500V RHW-2	3
8	#12	WALL RECEPTACLE	20	1	1200	1	20	AWG #12 THHN 1500V RHW-2	3
9	#12	WALL RECEPTACLE	20	1	1200	1	20	AWG #12 THHN 1500V RHW-2	3
10	#12	WALL RECEPTACLE	20	1	1200	1	20	AWG #12 THHN 1500V RHW-2	3
11	#12	WALL RECEPTACLE	20	1	1200	1	20	AWG #12 THHN 1500V RHW-2	3
12	#12	WALL RECEPTACLE	20	1	1200	1	20	AWG #12 THHN 1500V RHW-2	3
13	#12	WALL RECEPTACLE	20	1	1200	1	20	AWG #12 THHN 1500V RHW-2	3
14	#12	WALL RECEPTACLE	20	1	1200	1	20	AWG #12 THHN 1500V RHW-2	3
15									