ELECTRICAL LEGEND

CP	REMOTE CONTROL PANEL – PROVIDE 1 SET 18/3 LOW VOLTAGE WIRE EACH TO COMPRESSOR, WATER MANIFOLD, AND CENTRAL VACUUM UNIT LOCATED IN THE MECH. RM. RECESSED PANEL TO BE SUPPLIED BY DENTAL CO.
COMP	AIR COMPRESSOR – RUN SEPARATE CIRCUIT (VERIFY ELECTRICAL SPECS FOR NEW OR RELOCATED UNIT) PROVIDE 36" FLEX. CONDUIT AT 24" A.F.F. FURNISH SERVICE DISCONNECT. (SEE MFR'S. SPECIFICATIONS)
CV	CENTRAL VACUUM UNIT – RUN SEPARATE CIRCUIT (VERIFY ELECTRICAL SPECS FOR NEW OR RELOCATED UNIT) PROVIDE SERVICE DISCONNECTS. SEE MFR'S SPECIFICATIONS.
WM	WATER MANIFOLD – WIRE SOLENOID TO REMOTE CONTROL PANEL WITH 3#18 WIRES. SEE MFR'S SPECIFICATIONS. (SUPPLIED BY DENTAL CO.). PROVIDE DUPLEX RECEPTACLE ADJACENT TO UNIT.
HW	HOT WATER HEATER – EXISTING UNIT. PROVIDE A SEPARATE SWITCH AT THE CONTROL PANEL TO OPERATE THE WATER HEATER.
WD	WATER DISTILLATION UNIT – PROVIDE SEPARATE CIRCUIT: 120V/20A (VERIFY)
PAN	PANORAMIC X-RAY UNIT – RUN SEPARATE CIRCUIT 110V/15A. LINE VOLTAGE REGULATION NOT TO EXCEED 3%. PROVIDE 3-WIRE GROUNDED RECEPTACLE. (SEE MFR'S. SPECIFICATIONS)
XR	X-RAY UNIT – RUN SEPARATE CIRCUIT 110V/15A. INSTALL 2x4 J-BOX AS DIRECTED BY EQUIPMENT SUPPLIER. PROVIDE 24" SLACK. (SEE MFR'S SPECS – EQUIPMENT SUPPLIED BY OTHERS)
XB	X-RAY REMOTE BUTTON – PROVIDE CONDUIT FOR CABLES (CABLES BY EQUIP. SUPPLIER) BUTTON BY EQUIP. SUPPLIER. (SEE MFR'S. SPECIFICATIONS)
DJB	DENTAL JUNCTION BOX (RECESSED IN FLOOR) – DJB TO BE CONSTRUCTED BY GENERAL CONTRACTOR. PROVIDE 120V/5A SERVICE TO DJB w/ 4-PLEX RECEPTACLE (BY ELECTRICIAN). 10"H REF. TO LOCATE BOX AT THE SITE. (SEE DETAIL E/A1) INCLUDE ☒ AS SHOWN ON PLAN.
	ELECTRICAL SUB-PANEL – SUPPLY & INSTALL NEW SUB-PANEL (VERIFY SIZE). RELOCATE EXISTING MAIN SERVICE FEEDS AS NECESSARY. (VERIFY LOCATION)
MCS	MAGNETIC CONTACTOR SWITCH – PROVIDE SWITCH SO THAT CLIENT CAN TURN OFF ALL LIGHTING CIRCUITS FROM ONE LOCATION. REFER ALSO TO LIGHTING PLAN ON SHEET E2.
	DUPLEX RECEPTACLE – INSTALL AT 15" A.F.F. TO CENTER OF J-BOX UNLESS OTHERWISE NOTED ON PLAN.
H	DUPLEX RECEPTACLE (MOUNTED HORIZONTALLY) – INSTALL DIRECTLY UNDER UPPER CABINETS FOR FUTURE UNDER-CABINET TASK LIGHT. VERIFY HEIGHT w/ CABINET DWGS. & CABINET MAKER. POWER TO BE PROVIDED ON A SWITCHED CIRCUIT AS INDICATED ON SHEET E2.
	FOUR-PLEX RECEPTACLE – INSTALL AT 15" A.F.F. TO CENTER OF J-BOX UNLESS OTHERWISE NOTED ON PLAN.
	RECESSED WALL RECEPTACLE – INSTALL AT 15" A.F.F. TO CENTER OF J-BOX UNLESS OTHERWISE NOTED ON PLAN.
	"QUICK-PORT" OUTLET – (SYSTEM NIC) PROVIDE 2"x4" J-BOX WITH 6-HOLE COVER PLATE. PROVIDE 1" CONDUIT FROM J-BOX TO FLOOR OR CEILING PLENUM OR THRU CABINET TO J3 (SEE BELOW) COMPUTER, PHONE, TELEVISION, ETC. CABLES (BY OTHERS) TO BE RUN TO THESE MULTI-FUNCTION BOXES.
	TELEPHONE JACK/DESK MOUNTED PHONE – COORDINATE SYSTEM (NIC) AS SHOWN ON PLAN WITH TELEPHONE CO. INSTALL CONDUIT FROM JACK LOCATION TO FLOOR OR CEILING PLENUM OR THRU CABINET TO J2 (SEE BELOW)
W	TELEPHONE JACK/WALL MOUNTED PHONE – COORDINATE SYSTEM (NIC) AS SHOWN ON PLAN WITH TELEPHONE CO. INSTALL CONDUIT FROM JACK LOCATION TO FLOOR OR CEILING PLENUM.
	WALL SWITCH – ROCKER SWITCH AS SPECIFIED IN GENERAL NOTES, THIS SHEET.
J1	ELECTRICAL JUNCTION BOX-1 – PROVIDE FLEXIBLE CONDUIT FROM J-BOX TO BE RUN THRU CABINET CHASE AND CONNECTED TO RECEPTACLES OR J-BOXES AS SHOWN ON PLAN.
J2	TELEPHONE JUNCTION BOX-2 – PROVIDE TELEPHONE SYSTEM (NIC) JUNCTION BOX AT WALL FOR CONNECTION FROM PHONE JACKS IN CABINET UNITS. SEE NOTES AT ▼ ABOVE. INSTALL CONDUIT FROM J-BOX TO FLOOR OR CEILING PLENUM.
J3	"QUICK-PORT" JUNCTION BOX-3 – PROVIDE "QUICK-PORT" SYSTEM (NIC) JUNCTION BOX AT WALL FOR CONNECTION FROM "QUICK-PORT" OUTLETS IN CABINET UNITS. SEE NOTES AT ☒ ABOVE. INSTALL 1" CONDUIT FROM J-BOX TO FLOOR OR CEILING PLENUM.
FM	FM TAPE PLAYER/RECEIVER – WIRED (BY OTHERS) TO CEILING SPEAKERS AS SHOWN ON PLAN. EQUIPMENT AND CABLE SUPPLIED BY OTHERS.
DVD	DVD PLAYER – WIRED (BY OTHERS) TO TV MONITORS THROUGHOUT THE SUITE. (VERIFY LOCATIONS) EQUIPMENT AND CABLE SUPPLIED BY OTHERS.
S	CEILING MOUNTED SPEAKERS – WIRE AND SPEAKERS (AND INSTALLATION) BY OTHERS. SEE SHEET A2 FOR EXACT LOCATION IN CEILING.
V	VOLUME CONTROL (WALL MTD.) – CONNECTION TO FM UNIT AND SPEAKERS BY OTHERS. MOUNT CONTROL (N.I.C.) AT 48" A.F.F. WHERE INDICATED – COORDINATE HEIGHT w/ ADJACENT LIGHT SWITCHES.
	CEILING EXHAUST FAN – PROVIDE POWER ONLY. SUPPLIED AND INSTALLED BY MECHANICAL CONTRACTOR. SEE SHEET A2 FOR EXACT LOCATION.
UC	ULTRASONIC CLEANER – INSTALL UNIT RECESSED IN COUNTER w/ CONTROL BOX IN FACE OF LOWER CABINET. UNIT TO BE ON CIRCUIT SEPARATE FROM THAT OF AUTOCLAVES OR STERILIZERS – LOCATE RECEPTACLE UNDER SINK AT 18" A.F.F. (UNIT SUPPLIED BY OTHERS)
TV	TV OUTLET – PROVIDE 2"x4" J-BOX WITH 1-HOLE COVER PLATE. PROVIDE CONDUIT FROM J-BOX TO FLOOR OR CEILING PLENUM. VERIFY HEIGHT OF J-BOX.
IC	INTERCOM – INTERCOM POWER UNIT (SYSTEM BY OTHERS) THIS CONTRACT INCLUDES ONLY THE PROVISION OF POWER TO THE MAIN UNIT.
CH	CEILING CHIME – PROVIDE CHIME (ABOVE CEILING) TO BE ACTIVATED BY MAIN ENTRY DOOR. PROVIDE POWER AS NECESSARY AT DOOR, AS WELL AS WIRING TO CHIMES.

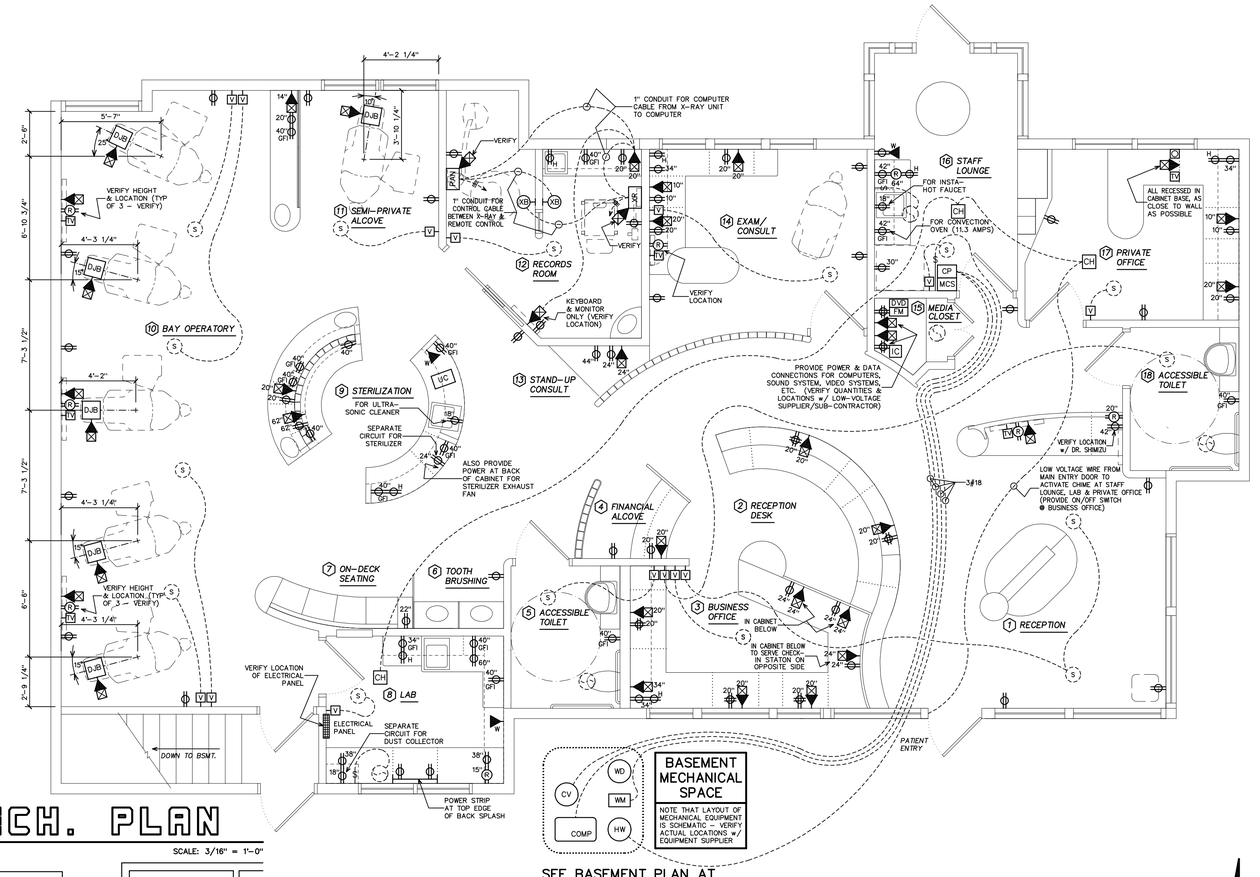
GENERAL NOTES

1. CONTRACTOR TO APPLY FOR AND OBTAIN ELECTRICAL BUILDING PERMIT. PERMIT FEES ARE NOT TO BE INCLUDED IN CONTRACT PRICE BUT REIMBURSED DIRECTLY BY THE CLIENT. NOTE THAT ANY ADDITIONAL DRAWINGS, DIAGRAMS OR OTHER INFORMATION REQUIRED FOR A PERMIT SHALL BE PROVIDED BY THE ELECTRICAL SUBCONTRACTOR AND INCLUDED IN THE BID PRICE. IF THE BUILDING DEPARTMENT REQUIRES PROFESSIONALLY ENGINEERED DRAWINGS, THE COST FOR THESE SHALL BE PAID DIRECTLY BY THE CLIENT.
2. ALL WORK PER IAW, NEC, AND ALL OTHER APPLICABLE RULES, REGULATIONS AND ORDINANCES.
3. USE FLEX CONDUIT AS CALLED OUT UNDER COUNTERTOPS.
4. ALL CONDUIT RUNS TO BE PARALLEL TO BUILDING LINES AND AS HIGH AS POSSIBLE.
5. CONCEAL ALL WORK IN WALLS, EXCEPT IN MECHANICAL ROOM.
6. HEIGHTS ON PLAN ARE TO CENTER OF J-BOXES. COORDINATE LOCATION AND HEIGHT OF ALL DEVICES WITH APPROVED CABINETRY DRAWINGS PRIOR TO ROUGH-IN.
7. EXACT LOCATION OF ALL DENTAL EQUIPMENT TO BE DETERMINED BY DESIGN FOR HEALTH OR EQUIPMENT REPRESENTATIVE AT THE JOB SITE.
8. SEE LIGHTING PLAN, SHEET E2, FOR LIGHTING AND ADDITIONAL DETAILS/INFORMATION.
9. ALL WIRE TO BE Cu, #12 MIN. (EXCEPT L.V.)
10. SWITCH DEVICES & RECEPTACLES TO BE 'DECORA' TYPE AS MANUFACTURED BY LEVITON (OR APPROVED EQUAL).
11. ALL DEVICE PLATES SHALL BE 'SMOOTH LINE' PLASTIC (LEVITON OR APPROVED EQUAL). GANGED PLATES SHALL BE USED AT ALL MULTIPLE DEVICE LOCATIONS.
    DEVICES SHALL BE 'BLACK'
    PLATES SHALL BE 'STAINLESS STEEL'
12. INSTALLATION OF TELEPHONE SYSTEM N.I.C. COORDINATE WITH PHONE COMPANY.
13. CABINETMAKER WILL PROVIDE CUTOUTS (AS DIRECTED) IN ALL CASEWORK FOR NECESSARY ELECTRICAL BOXES, COMPUTER & PHONE CONNECTIONS, ETC. COORDINATE WITH CABINETMAKER REGARDING BEST METHODS AND ROUTING OF ALL CABLES.
14. ELECTRICAL CONTRACTOR TO RECEIVE A SET OF CABINET DRAWINGS FROM THE GENERAL CONTRACTOR. THESE SHALL BE USED TO ACCURATELY LOCATE ELECTRICAL OUTLETS IN THE WALLS & CABINETS. A LIGHT DOTTED LINE (- - - -) ON THIS DRAWING (E1) INDICATES THE EDGE OF A CABINET AND IS INTENDED TO BRING AN AREA OF POTENTIAL CONFLICT TO THE CONTRACTORS' ATTENTION.
15. WHEN RECEPTACLES OR SWITCHES ARE INDICATED AS BEING WITHIN THE CABINETS (SEE CABINET DRAWINGS), JUNCTION BOXES ARE TO BE INSTALLED BEYOND THE FACE OF THE FINISHED WALL SUCH THAT COVER PLATES CAN BE INSTALLED ON FACE OF THE CABINET WALLS. CONSULT w/ CABINET MAKER TO DETERMINE HOW FAR BOXES MUST EXTEND BEYOND FACE OF FINISHED WALL.
16. SEE NOTE ON THE TITLE SHEET (TS) RE: PENETRATIONS & FIRE RESISTIVE 'HOODS' AT LIGHT FIXTURES.
17. PROVIDE MAGNETIC CONTACTOR SWITCH SO THAT CLIENT CAN TURN OFF ALL LIGHTING CIRCUITS FROM ONE LOCATION. REFER ALSO TO LIGHTING PLAN ON SHEET E2.

PROVIDE AN ALTERNATE PRICE FOR A BACK-UP GENERATOR & FUEL TANK

ELECTRICAL PLAN

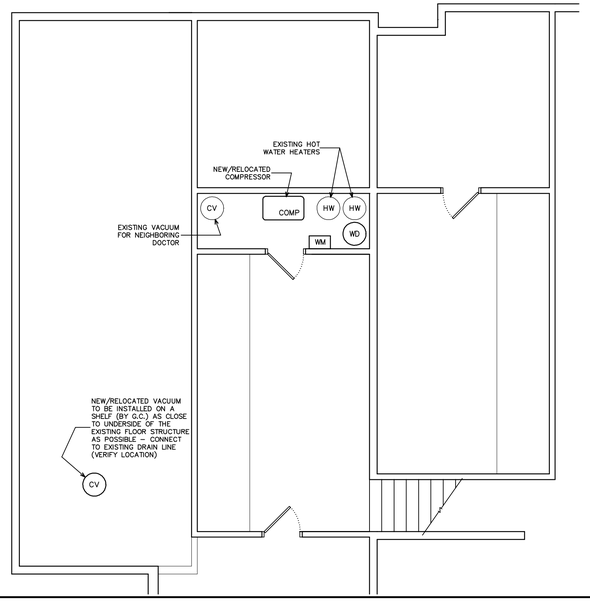
SCALE: 1/4" = 1'-0"



SEE BASEMENT PLAN AT LEFT FOR LIKELY LAYOUT OF EQUIPMENT

BASEMENT MECH. PLAN

SCALE: 3/16" = 1'-0"



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DATE: 20 MAY, 09
SCALE: AS NOTED
DRAWN: MBG/RMH
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SHEET: E1

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