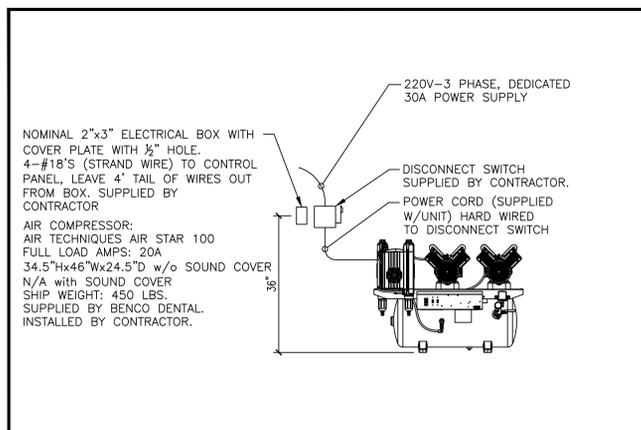
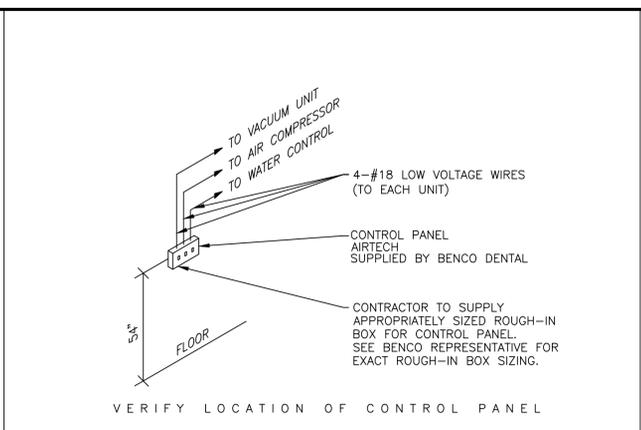


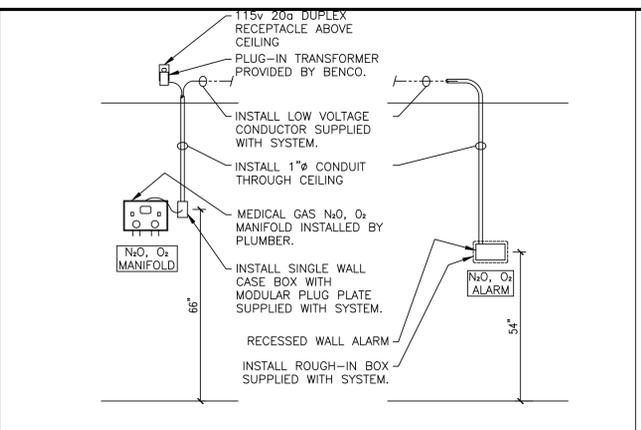
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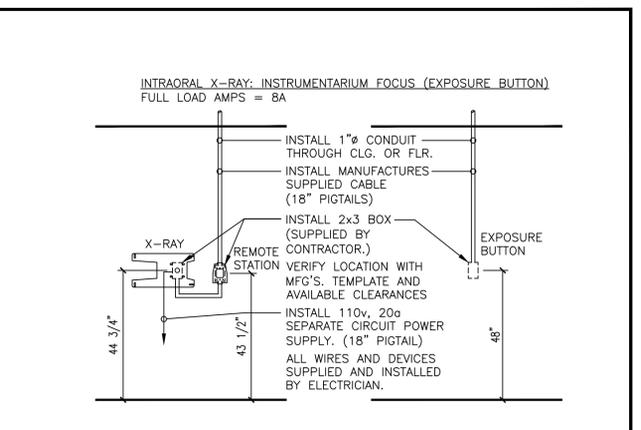
DETAIL - AIR COMPRESSOR 01



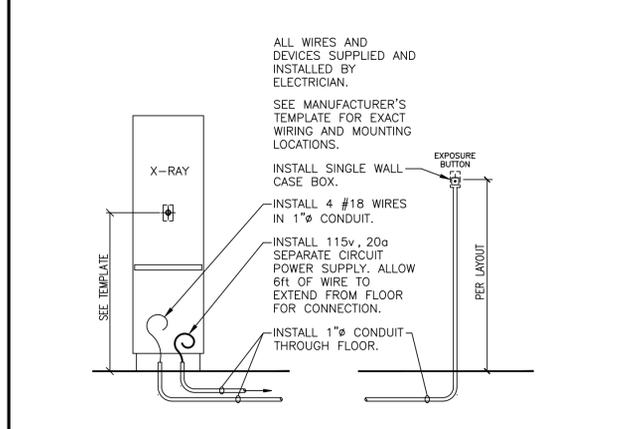
DETAIL - CONTROL PANEL 02



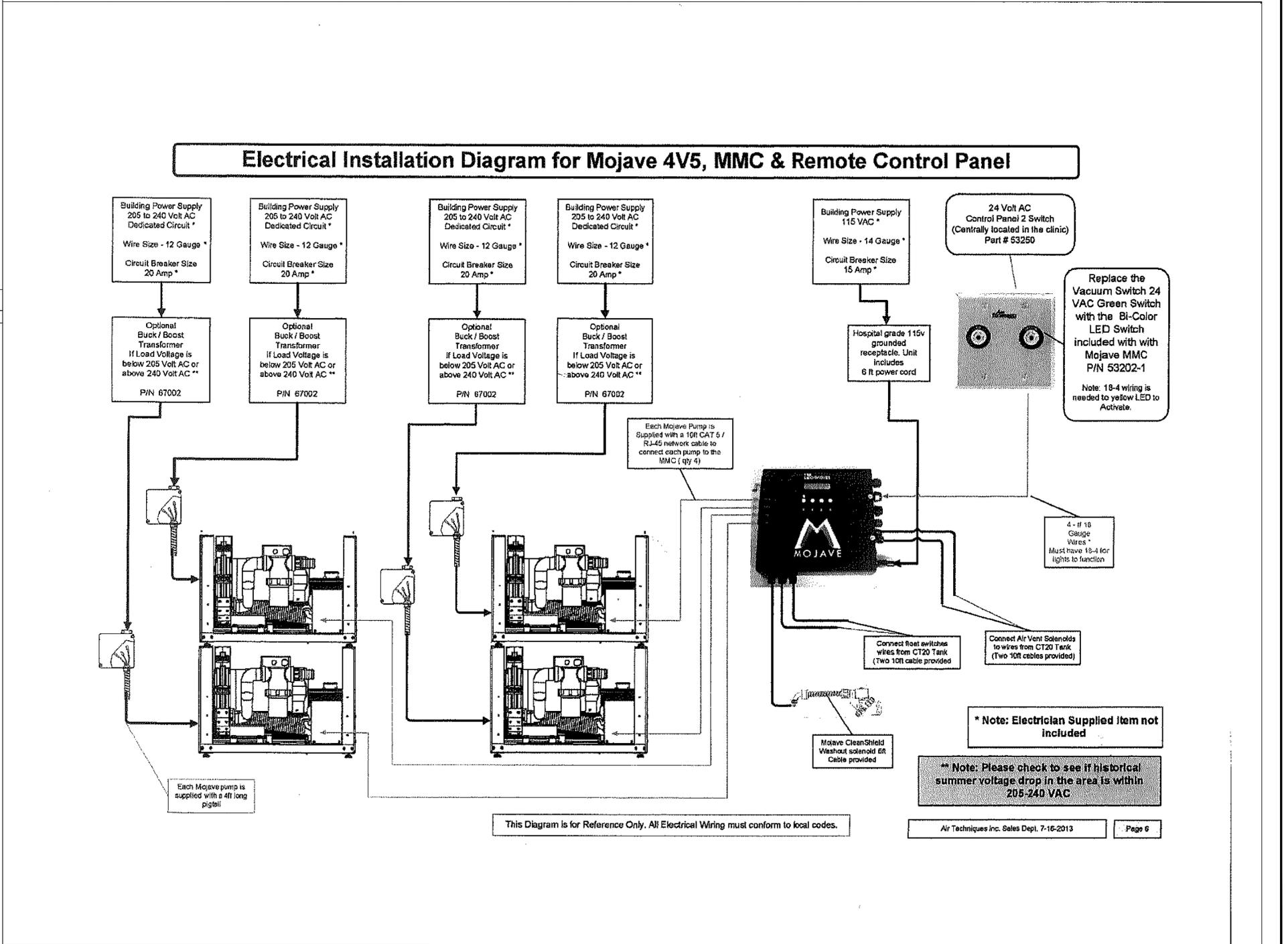
DETAIL - MEDICAL GAS ALARM WIRING 03



DETAIL - INTRAORAL X-RAY WIRING 04



DETAIL - PASS THROUGH X-RAY WIRING 05



DETAIL 06

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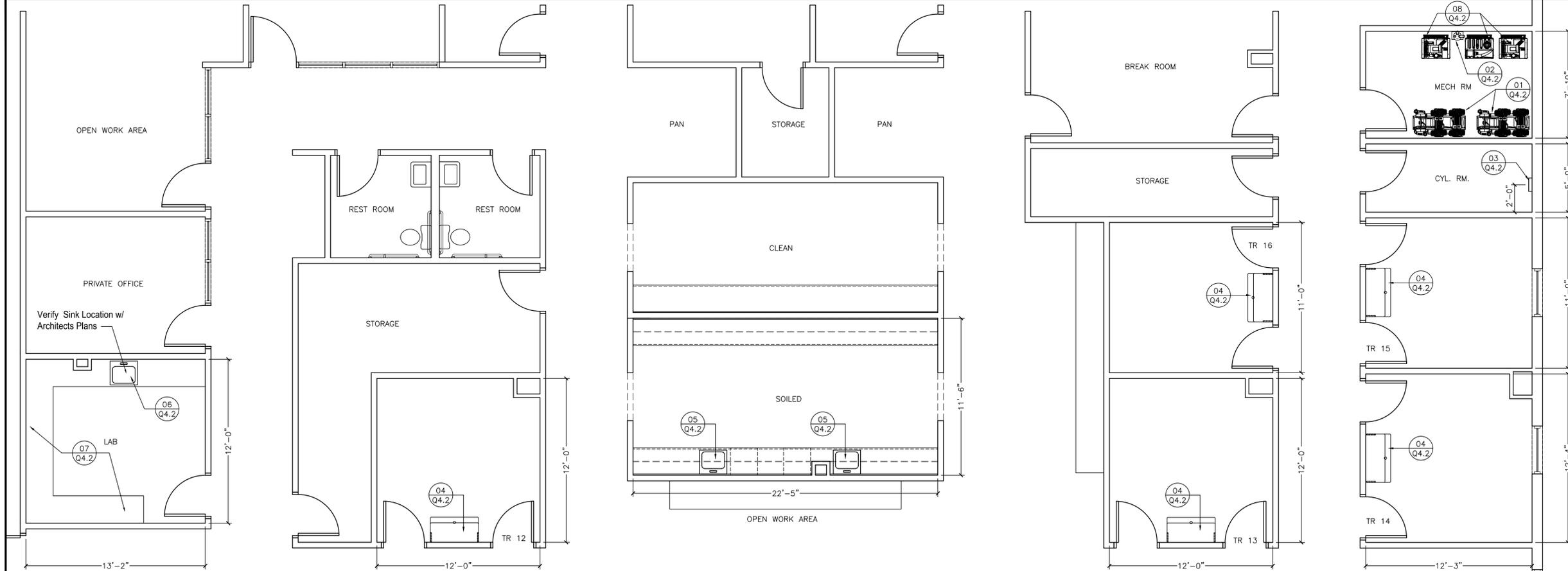
ISSUED:	DATE:
ZONE STUDY	MM/DD/YY
DESIGN SCHEMATIC	10-29-19
DCD (FOR REVIEW)	11-18-19
DCD	MM/DD/YY

PROJECT #:	
MS19053-MEC	
DRAWN BY / REVIEWED BY:	CHECKED BY:
MEC	DPC

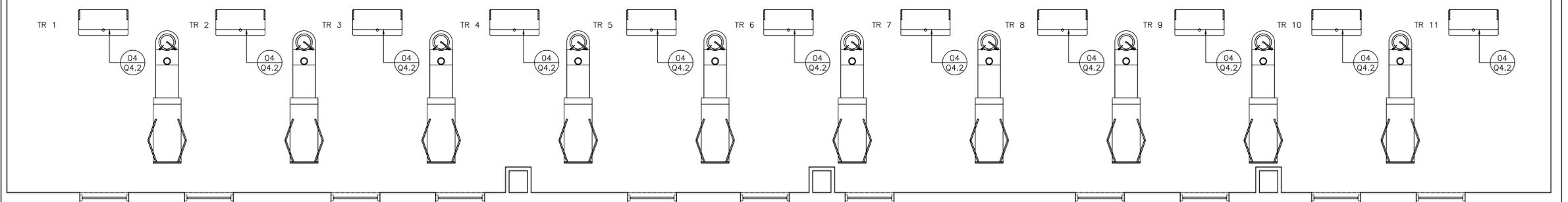
DRAWING TITLE:
DENTAL ELECTRICAL DETAILS

SHEET:
Q3.2

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DENTAL CHAIRS AND CABINETS ARE APPROX. LOCATIONS. SEE ADEC PLAN FOR EXACT PLACEMENT.



1 DENTAL PLUMBING PLAN
SCALE: 1/4" = 1'-0"

MEDICAL GAS NOTES (IF APPLICABLE)

- ENGINEER AND CONTRACTOR TO FOLLOW ALL APPLICABLE DESIGN AND INSTALLATION PROCEDURES AS LISTED UNDER NFPA #99C LEVEL 3 (MEDICAL GASES).
 - ALL UNDER SLAB PIPING IS ALLOW AND DOES NOT REQUIRE CONDUIT, EXCEPT WHERE ANY AND ALL PIPING SHALL PENETRATE THE SLAB. (JOINTS ARE ALLOWED UNDER SLAB)
- FOLLOW NFPA 2012, 5.3.6. MED GAS PIPING & BRAZING BY ASSE 6010 MED GAS PLUMBER FOR INSTALLATIONS & TESTING
- MEDICAL GAS CLOSETS NEED TO FOLLOW:
 - NATURAL VENTILATION, NFPA 2012, 9.9, 2012, 9.3.6.5.2
 - MECHANICAL VENTILATION, NFPA 2012, 9.3.6.5.3
 - CONSTRUCTION TO HAVE FIRE RATED WALLS, FLOORING, CEILING, DOOR & DOOR FRAME. NFPA 2012, 9.9.11.3
- WHEN (4) OR MORE TREATMENT ROOMS ARE EQUIPPED WITH MEDICAL GAS, THE DENTAL SUITE MUST BE EQUIPPED WITH A SPRINKLER SYSTEM. (THIS ONLY APPLIES TO ANESTHETIC LOCATIONS, AND DOES NOT APPLY TO N2O/O2 ANALGESIA/CONSCIOUS SEDATION.)

PLUMBING NOTES

- THE PLUMBER WILL SUPPLY AND INSTALL A WATER PRESSURE REGULATOR ON INCOMING WATER SUPPLY. THE PLUMBER WILL SET THE REGULATOR NOT TO EXCEED 65 PSI.
- THE PLUMBER WILL INSTALL THE WATER FILTER (AND THE WATER SOFTENER, AS NEEDED) ON THE COLD WATER MAIN ENTERING THE DENTAL SUITE. THE WATER FILTER WILL BE SUPPLIED BY EITHER BENCO DENTAL OR THE DOCTOR.
- THE PLUMBER WILL SUPPLY AND INSTALL SEPARATE MANUAL SHUT-OFF VALVES ON ALL SINKS, DENTAL UNITS, AND OUTLETS REQUIRING WATER AND/OR AIR.
- ALL SINKS AND FAUCETS WILL BE CONNECTED BY THE PLUMBER.
- ALL PIPES WILL BE CONCEALED WITHIN THE WALLS AND/OR THE FLOOR, UNLESS OTHERWISE NOTED ON THE BENCO DRAWINGS.
- THE PLUMBER WILL SEAL ALL PENETRATIONS THROUGH THE FLOOR WITH A FIRESTOP OR EQUIVALENT WATERPROOFING.
- ALL PIPES WILL BE FLUSHED CLEAR OF ALL DEBRIS BY THE PLUMBER.
- THE PLUMBER WILL BE ONSITE ON THE DAY(S) OF INSTALLATION TO WORK WITH THE BENCO REPRESENTATIVE ON THE FINAL HOOK-UP. THE PLUMBER WILL SUPPLY AND INSTALL ANY AND ALL MATERIALS INDICATED IN THE PLUMBING DETAILS SHOWN AND THE MANUFACTURER'S INSTALLATION INSTRUCTION SHEETS.
- THE PLUMBER WILL PROVIDE AND INSTALL ALL WATER SAFETY DEVICES (i.e. CHECK VALVES, BACKFLOW PREVENTERS, ETC.) IN ACCORDANCE WITH LOCAL CODE.
- THE PLUMBER WILL INSTALL COMPLETE AND MAKE FINAL HOOK-UP TO THE FOLLOWING DENTAL EQUIPMENT, SUPPLIED BY THE DOCTOR AND/OR BENCO DENTAL, INCLUDING, BUT NOT LIMITED TO:
 - AIR COMPRESSOR
 - VACUUM PUMP
 - AIR/WATER SEPARATORS
 - WATER CONTROL VALVE AND FILTER ASSEMBLY
- AN ELECTRIC MASTER WATER CONTROL VALVE AND FILTER ASSEMBLY IS REQUIRED FOR ANY/ALL COLD WATER LINES FEEDING ALL DENTAL EQUIPMENT. THIS WATER CONTROL VALVE AND FILTER ASSEMBLY IS REQUIRED WHETHER SUPPLIED BY BENCO, THE DOCTOR, OR THE PLUMBER. THE PLUMBER IS TO VERIFY THE EXACT LOCATION OF THE WATER CONTROL VALVE AND FILTER ASSEMBLY WITH THE DOCTOR/OWNER, AND A BENCO REP AT THE TIME OF LAYOUT AND PRIOR TO EQUIPMENT SELECTION.
- THE PLUMBER WILL COMPLY WITH ALL BENCO INSPECTIONS, AS NOTED IN THE GENERAL NOTES ON THE FIRST PAGE OF THESE DOCUMENTS.
- GENERAL DENTAL PLUMBING LINES SHOWN ARE FOR GRAPHICALLY DISPLAYING ORIGIN AND TERMINATION POINTS. FIELD CONDITIONS MAY ALTER PLUMBING LINE LAYOUT, PER PLUMBERS DISCRETION. THE FINAL LAYOUT OF THE PLUMBING LINES IS THE RESPONSIBILITY OF THE PLUMBER.
- THE APPLICATION OF DRIVE GAS (NFPA, 2012, 99.5.3.7, AS THIS IS NOT CONSIDERED NFPA "AIR") AS NOTED ON THIS PLAN IS NOT USED FOR LIFE-SUPPORT PURPOSES SUCH AS RESPIRATORS, IPPB MACHINES, ANALGESIA, ANESTHESIA, AND SO FORTH.
- NFPA, 2012, 99.5.3.8 VACUUM PIPING
- NFPA, 2012, 99.5.3.8 SCAVENGING PIPING

NFPA LEGEND		
SYMBOL	NFPA 2012/2015	NFPA 2018
O=OXYGEN	99.5.3.6	99.15.4.4.2
N=NITROUS OXIDE	99.5.3.6	99.15.4.4.2
S=SCAVENGING	99.5.3.8	99.15.4.4.4
V=VACUUM	99.5.3.8	99.15.4.4.4
D=DRIVE GAS/ DENTAL AIR	99.5.3.6	99.15.4.3.3.2 99.15.4.4.3
W=W.A.G.D.	99.5.3.8	99.15.3.2.1.5

ALL SINKS BY OTHERS

NFPA REFERENCES FOR N2O/O2 (NON-ANESTHESIA)			
	2012	2015	2018
MED GAS PIPING, BRAZING, & TESTING	99.5.3.6	99.5.3.6	99.15.4
MED GAS STORAGE	99.11.3	99.11.3	99.11.3
MED GAS STORAGE VENTILATION NATURAL: MECHANICAL:	99.9.3.6.5.2 99.9.3.6.5.3	99.9.3.6.5.2 99.9.3.6.5.3	99.9.3.6.5.2 99.9.3.6.5.3
CATEGORY 3 DRIVE GAS	99.5.3.7	99.5.3.7	
DENTAL AIR			99.15.4.3.3.2
CATEGORY 3 VACUUM	99.5.3.8	99.5.3.8	
DENTAL VACUUM			99.15.4.3.3.3
CATEGORY 3 SCAVENGING	99.5.3.8	99.5.3.8	
NITROUS OXIDE SCAVENGING			99.15.4.3.3.4

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DENTAL PLUMBING PLAN	
SHEET:	

Q4.1

