



All framing, bracing, door sizes, floor levels, cabinet heights, rest room and lunch room facilities (if any) and other design details should be modified to comply with latest Americans With Disabilities Act (A.D.A.) guidelines and similar State requirements. Architect or Contractor must submit plans to building and other local officials as necessary for compliance with all Federal, State and Local building codes, including A.D.A. guidelines, before commencing work. Notify Burkhardt of any changes that would modify any dental treatment rooms and/or any dental cabinet layout.

The Contractor should furnish all electrical, plumbing, and structural requirements listed, as this is necessary before the dental equipment can be installed. The tenant, or Burkhart, will furnish the dental equipment. Check all measurements with the actual building dimensions, or Architect's plans. The specifications shown on this plan have not been checked for compliance with Federal, State or Local building codes and regulations.

for the dental office equipment shown; and these drawings do not provide for the electrical, mechanical and structural requirements for the building or office as a whole.

THIS IS A SUGGESTED PLAN WITH SPECIFICATIONS FOR THE DENTAL EQUIPMENT ONLY.

Listed requirements show only the services, connections and fixtures required for the dental office equipment shown; and these drawings do not provide for the electrical, mechanical and structural requirements for the building or office as a whole.

1) Segregation of construction expenses.
Construction bids for labor and materials for the bracing, backing, electrical and plumbing specifications shown on this set of plans that are required for the installation and operation of dental equipment should be segregated from the remainder of the construction labor and material bids for this project since these expenses may qualify for a shorter tax depreciation schedule than the remainder of the construction costs.

2) Contractor furnish all electrical, mechanical and structural requirements listed. The specifications noted and shown on plan have not been checked for compliance with Federal, State, or local building codes and regulations; bidding and construction of this project must be done in strict compliance with the current local building code and all other federal, state and local codes that apply. All Burkhardt, information is provided to assist tenant's architect or designer, and is not to be used as a construction design drawing. Burkhardt does not authorize use of this information for any other purposes and disclaim all liability if used for other purposes.

3) General contractor to schedule walk-through meeting with all applicable contractors and a Burkhardt representative to review dental equipment details, manufacturer's specification sheets and manufacturer's templates before commencing construction. The personnel actually doing the work must be present at this meeting. This usually takes place after the framing has been completed and before any mechanical has been run. If pouring of a concrete slab is involved, then this meeting must take place prior to that event.

At this meeting we will furnish or make available any templates and plans necessary for the placement of electrical, plumbing and backing for the dental equipment we will be providing. If the doctor is reusing some of his or her existing equipment, then the contractor is responsible for making sure that the appropriate connections are provided. Although we will help as much as possible, it will most likely require a trip by the contractor to the doctor's existing office.

4) General contractor to schedule rough-in inspection with all applicable contractors and a Burkhardt representative to inspect all dental plumbing and wiring prior to sheetrocking or pouring of concrete. Our office needs to be notified at least 72 hours in advance for the Burkhardt branch office city area and 72 hours for all areas outside city limits. If the general contractor elects to continue without an inspection by our office, then he assumes all responsibilities for missing or incorrectly installed mechanical services.

5) Contractor is required to check with Burkhardt for a list of subcontractors required to be on site during equipment installation.

6) Any Burkhart or tenant provided items requiring installation by contractor during construction will be delivered to job site. When the contractor or his representative takes possession of these items, he becomes responsible for their safekeeping and condition.















7) Burkhart equipment installation requires approximately 1-2 days for each operatory, however time may vary depending on the configuration of equipment. Contractor to schedule with Burkhart the number of days needed at least thirty days in advance. Schedule required days for after completion of construction and before occupancy of tenant.

8) The contractor shall obtain and pay for all permits. The contractor shall coordinate and schedule all required code official inspections.

9) Contractor to install paper towel, cup, glove, and miscellaneous dispensers as required. Contractor to provide wall mounted items for restrooms if applicable; tenant to provide all dispensers except towel dispensers, unless otherwise noted. Contractor to provide paper to dispensers.

10) Contractor to verify with tenant all items (including their dimensions and their mechanical requirements) that are not supplied by Burkhart. These items might include but are not limited to dishwasher, trash compactor, clothes washer and dryer, etc.

11) Notify Burkhart if ceiling height in the opertories is less than 7'-8" (92"). Ceiling height may effect equipment installation.

ITEM #	MANUFACTURER/DESCRIPTION	MODEL #	QUANTITY	FURNISHED & INSTALLED BY: B=BURKHART O=OTHERS	ANCHORED TO: FLOOR, WALL, OR CEILING	REMARKS/DETAILS
	ADEC PATIENT CHAIR	511	4	FB / IB	SITS ON FLOOR	
	ADEC RADIUS DELIVERY UNIT	532	2	FB / IB	MOUNTS ON CHAIR	
	ADEC RADIUS DELIVERY UNIT	533	2	FB / IB	MOUNTS ON CHAIR	
	ADEC CEILING MOUNTED TRACK LIGHT	577 LED	4	FB / IB	MOUNTS ON CEILING	
	ADEC REAR TREATMENT CABINETRY	5562.42	4	FB / IB	SITS ON FLOOR	
	ADEC SIDE CABINET WITH SINK	5531.58	4	FB / IB	SITS ON FLOOR	
	PORTER GAS MANIFOLD SYSTEM,	VANGUARD	1	FB /IO	MOUNTS ON WALL	
	PORTER CONCEALED ZONE VALVE	ZONE	1	FB / IO	MOUNTS IN WALL	
	AIR TECHNIQUES DRY VACUUM SYSTEM	MOJAVE V5	1	FB / IB	SITS ON SHELF	
	AIR TECHNIQUES AIR COMPRESSOR	AIRSTAR 50	1	FB / IB	SITS ON FLOOR	
	VATECH AMERICA PANORAMIC XRAY	PAX-I 2D	1	FB / IB	FLOOR AND WALL	
	COLTENE ULTRASONIC CLEANER	UC300	1	FB / IB	SITS ON COUNTER	TO BE LOCATED
	SCICAN STERILIZER	BRAVO2	1	FB/ IB	SITS ON COUNTER	TO BE LOCATED
	SCICAN CASSETTE STERILIZER	STATIM 2000	1	FB / IB	SITS ON COUNTER	TO BE LOCATED

Joseph, OR

Drafted By:

MA #1

MA #2

MA #3

TWS #4

2-21-2019

DAN STUCKI

ent Specialist:

Equipment

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

ELECTRICAL LEGEND

ALL ITEMS NOT MARKED WITH A CHECK ARE NOT APPLICABLE TO THIS JOB

- A) All electrical outlets and locations of utility callouts are to be measured to the bottom of a 2x4 or 4x4 electrical box. Electrical outlets not specified are 18" above floor or 6" above countertop. All outlets above countertop should be verified with cabinet elevations for conflict with backsplashes, etc.
- B) If dimensions of electrical and utility locations are not specified, verify and discuss locations with Burkhart and designer and owner / tenant.
- C) If required by code, provide a separate disconnect switch for each x-ray location, verify.
- D) Burkhart equipment installers are not licensed contractors. Consequently, the final "hard" electrical and plumbing connections must be made by the applicable contractors at the time of equipment installation.
- E) Recommended lighting information:
- a) Strip type fluorescent task lighting mounted under upper wall-hung cabinetry. Verify locations with doctor.
 - b) See plans by others for general and decorative lighting and wall switching.
 - c) If required by local code or requested by building owner / tenant, provide battery backup emergency lights in each operatory. Emergency lighting in other areas of the suite to be provided per code.
 - d) Provide minimum 150-200 foot-candles illumination at countertop height (30-32") in all operatories. Suggested lighting should meet the following criteria:
Color Rendering Index (CRI): 90 or above
Color Preference Index (CPI): 90 or above
Spectral Energy Distribution (SED): Natural Daylight
Color Temperature in Degrees Kelvin (K): 5500 K
 - F) The contractor shall verify location and access to existing building utilities, including water, gas, air, vacuum, vents, electrical and waste lines when designated on plans. Notify and obtain approval of building manager, if applicable, before discontinuing service prior to hook-up.
 - G) Notify Burkhart if ceiling height in the operatories is less than 7'-8" (92"). Ceiling height may effect equipment installation.
 - H) All equipment, including low voltage items, which requires hard wiring to be connected by contractor. Burkhart recommends surge suppression for all dedicated circuits.
 - I) Some of the dental equipment provided by Burkhart requires mud rings, rough-in boxes, and cover plates. Contractor provide and install as required per manufacturer's instructions.
 - J) Data processing equipment, terminal locations and wiring by others.
 - K) GFCI breakers may be required at the panel for all circuits serving the patient treatment areas, verify with your local code officials.

RECOMMEND ENTIRE OFFICE SURGE PROTECTION

- 110 volt dedicated outlet. FOR TABLETOP ULTRASONIC CLEANER TO BE LOCATED. See plans by others for any additional outlets that may be required in non-treatment areas.
- 110 volt dedicated outlet. This product draws ____6____ amps.
 - 220 volt dedicated outlet. This product draws ____amps.
- Sterilizer location TO BE LOCATED.
- Provide ethernet data drop
 - Provide 110 volt dedicated circuit. This product draws ____12 EACH____ amps.
 - Provide 220 volt dedicated circuit. This product draws ____amps.
 - Provide drain.
 - Provide cold water.
 - Provide hot water.
 - See manufacturer's templates provided by Burkhart.
- Dental operating light location. Provide 110 volt electrical per manufacturer's specifications. This product draws ____amps. Confer with Burkhart for ceiling height requirements. Provide wood backing per mfg's specifications. See bracing / backing for more information.
- Provide low voltage wiring from light location to chair.
 - See manufacturer's templates provided by Burkhart.
- X-ray remote switch location.
- Provide the required number of stranded color coded wires from OR OR locations as noted on plan and per manufacturer's specifications.
 - Provide CAT 5 E cable to this location also.
 - Install mfg provided cables from Burkhart.
 - See manufacturer templates provided by Burkhart for termination information.
- Panoramic X-ray machine location.
- Provide (3 wires with ground) single phase wiring per plan and manufacturer's specifications. Confer with Burkhart for ceiling height requirements.
- Requires ethernet data drop
 - Provide 110 volt dedicated circuit. This product draws ____15____ amps.
 - Provide 220 volt dedicated circuit. This product draws ____amps.
 - Install mfg provided cable per Burkhart instructions.
 - See manufacturer's templates provided by Burkhart.
- Exhaust fan or other. Provide and switch separately at convenient wall location. When installed in a mechanical room, exhaust fan should be thermostatically controlled. Must supply adequate air intake to allow airflow through room. Maintain temperatures between 40 and 90 degrees F. Mechanical room equipment produces heat:
- Air Compressor ____4400____ BTU/hour
Vacuum ____3021 - 7660____ BTU/hour
- FORCED AIR AND HVAC INPUT MUST BE USED IN ADDITION TO AN EXHAUST FAN IF NORMAL AMBIENT TEMPERATURES VARY FROM SPECIFIED OPERATING TEMPERATURE RANGE. See plans by others for additional exhaust fans that may be required.

DO NOT SCALE FROM THESE DRAWINGS. USE CALLED-OUT DIMENSIONS ONLY.

NOTE:

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These plans are not meant to be a design for building-out an operatory but, instead, represent only a sample layout; a similar layout of the equipment in a dentist's facilities will not necessarily be compatible with the A.D.A. or other applicable law or code. The manufacturers and Burkhart are not Architects or Engineers; the manufacturers and Burkhart do not warrant or represent that the plans are in compliance with the A.D.A. or other applicable law or code. The dentist should consult their Architects prior to installing the equipment to ensure compliance with the A.D.A. or other applicable law or code.

The Contractor should furnish all electrical, plumbing, and structural requirements listed, as this is necessary before the dental equipment can be installed. The tenant, or Burkhart, will furnish the dental equipment. Check all measurements with the actual building dimensions, or Architect's plans. The specifications shown on this plan have not been checked for compliance with Federal, State or Local building codes and regulations.

Listed requirements show only the services, connections and fixtures required for the dental office equipment shown; and these drawings do not provide for the electrical, mechanical and structural requirements for the building or office as a whole.

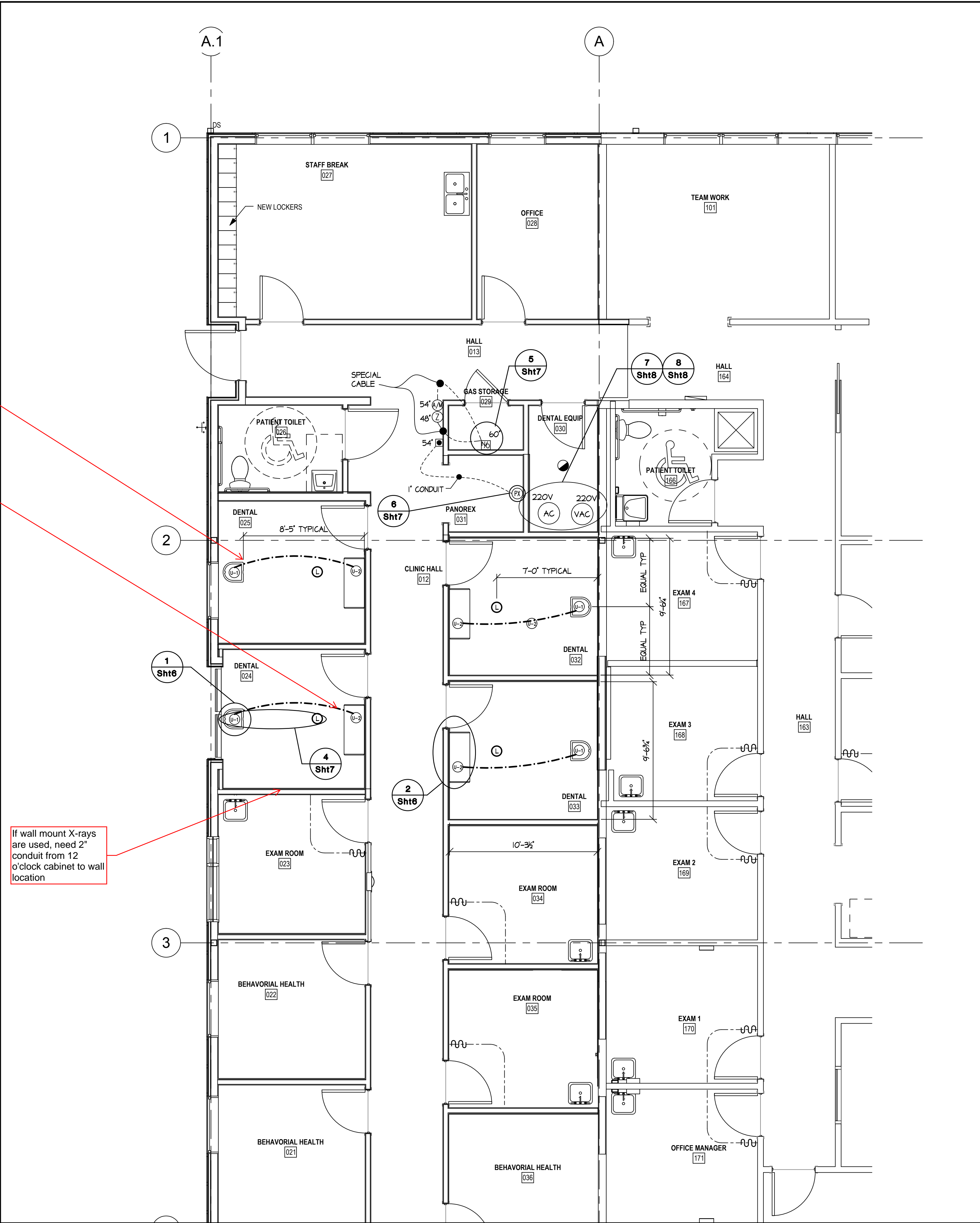
See Mechanical Specification and Detail Sheets for further information.

THIS IS A SUGGESTED PLAN WITH SPECIFICATIONS FOR THE DENTAL EQUIPMENT ONLY.

- Nitrous oxide and oxygen manifold location. Provide copper piping per codes and install continuously to and / or locations. Manifold supplied by Burkhart. Contractor install per mfg. specs. All aspects of installation to comply with all local and federal codes. Must be Medical Gas Certified plumber. Note: Typical storage closet will contain:
- (2) - "G" tanks of N₂O at 489 CF (Cubic Feet) each and
 - (2) - "G" tanks of O₂ at 244 CF each.
- Provide 110V separate circuit. This product draws ____2____ amps. See manufacturer's templates provided by Burkhart.
- Nitrous oxide / oxygen alarm monitoring station location. All aspects to comply with all local and federal codes.
- Provide 1/2" electrical conduit with pull string from AND AND location per manufacturer's specifications.
 - Install mfg. provided cable from AND AND location per mfg. specifications.
 - See manufacturer's templates provided by Burkhart.
- Zone valve for nitrous oxide and oxygen with wiring per manufacturer's specifications. Valve provided by Burkhart installed by contractor. Must be Medical Gas Certified plumber. All aspects to comply with NFPA 99C Level 3 standards. See manufacturer's templates provided by Burkhart.
- Dental unit utility center location.
- Provide 110 volt hardwire connection. This product draws ____amps.
 - Provide 110 volt quad outlet. This product draws ____12____ amps.
 - Provide compressed air for instrumentation devices with shut-off valves, (3/8" angle stop valves or 3-piece ball valves as required by local codes.)
 - Provide vacuum.
 - Provide 2" conduit.
 - Provide cold water.
 - Provide low voltage wires.
 - See manufacturer's templates provided by Burkhart.
- Dental unit utility center location.
- Provide 110 volt hardwire connection. This product draws ____6____ amps.
 - Provide 110 volt quad outlet. This product draws ____amps.
 - Provide compressed air for instrumentation devices with shut-off valves, (3/8" angle stop valves or 3-piece ball valves as required by local codes.)
 - Provide vacuum.
 - Provide 2" conduit.
 - Provide cold water.
 - Provide low voltage wires.
 - See manufacturer's templates provided by Burkhart.
- Location of control panel for low voltage switching. Control panel supplied by Burkhart. Provide wires / cabling to each vacuum pump, compressor, water shut-off valve.
- Provide and install Cat 6 cabling to each.
 - Provide Cat 6 cabling to each.
 - Provide ____4____ sets 4 #18 wires to each.
 - Provide 1/4" polyflow tubing to compressed air line.
 - Provide 1/4" polyflow tubing to compressed air line.
 - Provide 1/4" polyflow tubing to vacuum line.
 - See manufacturer's templates provided by Burkhart.
- Dental compressed air for instrumentation devices location.
- Provide (3 wire w/ground), single phase wiring per manufacturer's specifications. Provide 1/2" minimum I.D. copper air lines to termination locations as noted on plan. Provide 3/8" angle stop valves or 3-piece ball valves as required by local codes. Install wires to control panel location per mfg specifications. See symbol. Notify Burkhart of voltage variance in building electrical supply. See Burkhart for details. Provide 2" intake to fresh air.
- Provide 110 volt dedicated circuit. This product draws ____amps.
 - Provide 220 volt 30 amp dedicated circuit. This product draws ____16____ amps.
 - Hardwire connection with disconnect.
 - Provide receptacle. Verify finish configuration with Burkhart Dental.
 - Provide ethernet data drop
 - See manufacturer's templates provided by Burkhart.
- Central dental vacuum motor pump location.
- Provide (3 wire w/ground), single phase wiring per manufacturer's specifications. Provide waste drain to sewer. Provide under floor piping continuous to locations shown and size per plan and mfg. specs. Install wires to control panel location per mfg. specs. See symbol. Provide ____2" or ____3" exhaust to outside of building for exhaust of pump per mfg. specs., per NFPA. Notify Burkhart of voltage variance in building electrical supply.
- Provide ____ (quantity) cold water hook-up(s).
 - Provide cold water location, 3/4" hose bib.
 - Provide ____ 110 volt dedicated circuit(s). This product draws ____amps.
 - Provide ____ 220 volt 20 amp dedicated circuit(s). This product draws ____15____ amps.
 - Hardwire connection with disconnect.
 - Provide receptacle. Verify finish configuration with Burkhart Dental.
 - Provide 120V dedicated outlet at 24" a.f.f. and within 4' of unit. This product draws 5 amps
 - Provide ethernet data drop
 - Sewer drain to be ____ wall drain, ____ floor sink, as dictated by building design and / or local codes.
 - Exhaust piping to tolerate 180 degrees Fahrenheit.
 - See manufacturer's templates provided by Burkhart.

AVERAGE EQUIPMENT LOADS (in Amps)					
Amalgamator	1.0	Model Trimmer	5.0	X-ray View box	1.0
Chairs	10.0	Ultrasonic Cleaner	3.0	Dental Lights	2.0
Communication system	2.0	Ultrasonic Scaler	1.0		
Lathe	3.0				

If wall mount X-rays are used, need 2" conduit from 12 o'clock cabinet to wall location



Your Local **BURKHART** Branch . . .
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YAKIMA, WA 98902
LOCAL: 509-248-5441 ■ FAX: 866-401-6649
www.burkhardtental.com

BURKHART
Integrity. Knowledge. Client Success.

DENTAL EQUIPMENT PLAN FOR
Winding Waters Community Health
Joseph OR

Sheet **4** of **8**

Drafted By:

MA #1
1-9-2019
MA #2
1-21-2019
MA #3
2-5-2019
TWS #4
2-21-2019

Equipment Specialist: **DAN STUCKI** Architect/Designer/Contractor
Plan # **4** Acct. Manager: **REEDY BERG**

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

NOTICE: This proposed plan is offered to assist our customer's architect or designer, AND IT IS NOT TO BE USED AS A WORKING DRAWING. Burkhart Dental Supply Co. does NOT authorize use of this plan for any other purposes, and we disclaim all liability if used for any other purposes.

PLUMBING LEGEND

ALL ITEMS NOT MARKED WITH A CHECK ARE NOT APPLICABLE TO THIS JOB

- A) If dimensions of electrical and utility locations are not specified verify and discuss with Burkhart and designer and owner / tenant.
- B) Burkhart equipment installers are not licensed contractors thus some of the final "hard" dental equipment connections must be made by the applicable contractors at the time of equipment installation.
- C) The contractor shall verify location and access to existing building utilities, including water, gas, air, vacuum, vents, electrical and waste lines when designated on plans. Notify and obtain approval of building manager, if applicable, before discontinuing service prior to hook-up.
- D) All vacuums to be hooked up by contractor as well as sinks, mixing valves, nitrous controls and outlets, developing tanks, etc.
- E) Many areas require back flow prevention---consult local codes and install as necessary.

THIS FACILITY IS A CATEGORY 3 GAS AND VACUUM SYSTEMS CLINIC AS DESCRIBED IN NFPA 99 2012 GUIDELINES, CHAPTER 5: GAS AND VACUUM SYSTEMS.

A Compressed air for instrumentation devices valve location. Contractor furnish and install 3/8" compression angle stop or 3-piece ball valve as required by local codes.

Nitrous oxide, oxygen and dental vacuum outlet location. Provide copper piping per codes. Outlets supplied by Burkhart, contractor install per codes. Must be Medical Gas Certified Plumber. All aspects of installation to comply with all local and federal codes

See manufacturer's templates provided by Burkhart.

Zone valve for nitrous oxide and oxygen with wiring per manufacturer's specifications. Valve provided by Burkhart installed by contractor. Must be Medical Gas Certified plumber. All aspects to comply with NFPA 99C Level 3 standards.

See manufacturer's templates provided by Burkhart.

Dental vacuum outlet location. Outlet supplied by Burkhart, contractor install per manufacturer's specs.

Mercury separation and collection. Unit needs to be placed on the floor and inserted into the vacuum line immediately before the vacuum unit. Standard unit size is 23.5"Hx20"Wx8"D unless noted otherwise.

Nitrous oxide and oxygen manifold location. Provide copper piping per codes and install continuously to and / or locations. Manifold supplied by Burkhart. Contractor install per mfg. specs. All aspects of installation to comply with all local and federal codes. Must be Medical Gas Certified plumber.

Note: Typical storage closet will contain:

(2) - "G" tanks of N₂O at 489 CF (Cubic Feet) each and

(2) - "G" tanks of O₂ at 244 CF each.

Provide 110V separate circuit. This product draws ____ amps.

See manufacturer's templates provided by Burkhart.

Zone valve for nitrous oxide and oxygen with wiring per manufacturer's specifications. Valve provided by Burkhart installed by contractor. Must be Medical Gas Certified plumber. All aspects to comply with NFPA 99C Level 3 standards.

See manufacturer's templates provided by Burkhart.

Dental unit utility center location.

Provide 110 volt hardwire connection. This product draws ____ amps.

Provide 110 volt quad outlet. This product draws ____ amps.

Provide compressed air for instrumentation devices with shut-off valves, (3/8" angle stop valves or 3-piece ball valves as required by local codes.)

Provide vacuum.

Provide 2" conduit.

Provide cold water.

Provide low voltage wires.

See manufacturer's templates provided by Burkhart.

Dental unit utility center location.

Provide 110 volt hardwire connection. This product draws ____ amps.

Provide 110 volt quad outlet. This product draws ____ amps.

Provide compressed air for instrumentation devices with shut-off valves, (3/8" angle stop valves or 3-piece ball valves as required by local codes.)

Provide vacuum.

Provide 2" conduit.

Provide cold water.

Provide low voltage wires.

See manufacturer's templates provided by Burkhart.

Dental compressed air for instrumentation devices location.

Provide (3 wire w/ground), single phase wiring per manufacturer's specifications. Provide 1/2" minimum I.D. copper air lines to termination locations as noted on plan. Provide 3/8" angle stop valves or 3-piece ball valves as required by local codes. Install wires to control panel location per mfg specifications. See symbol. Notify Burkhart of voltage variance in building electrical supply. See Burkhart for details. Provide 2" intake to fresh air.

Provide 110 volt dedicated circuit. This product draws ____ amps.

Provide 220 volt 30 amp dedicated circuit. This product draws ____ amps.

Hardwire connection with disconnect.

Provide receptacle. Verify finish configuration with Burkhart Dental.

Provide ethernet data drop

See manufacturer's templates provided by Burkhart.

Central dental vacuum motor pump location.

Provide (3 wire w/ground), single phase wiring per manufacturer's specifications. Provide waste drain to sewer. Provide under floor piping continuous to locations shown and size per plan and mfg. specs. Install wires to control panel location per mfg. specs. See symbol.

Provide ____ 2" or ____ 3" exhaust to outside of building for exhaust of pump per mfg. specs., per NFPA. Notify Burkhart of voltage variance in building electrical supply.

Provide ____ (quantity) cold water hook-up(s).

Provide cold water location, 3/4" hose bib.

Provide ____ 110 volt dedicated circuit(s). This product draws ____ amps.

Provide ____ 220 volt 20 amp dedicated circuit(s). This product draws ____ 15 ____ amps.

Hardwire connection with disconnect.

Provide receptacle. Verify finish configuration with Burkhart Dental.

Provide 120V dedicated outlet at 24" a.f.f. and within 4' of unit. This product draws 5 amps.

Provide ethernet data drop

Sewer drain to be ____ wall drain, ____ floor sink, ____ as dictated by building design and / or local codes.

Exhaust piping to tolerate 180 degrees Fahrenheit.

See manufacturer's templates provided by Burkhart.

SUGGESTED PIPING LAYOUT, SEE MFG SPECIFICATIONS, TYPICAL.

Run 1/2" I.D. copper air line. Terminate all locations with 3/8" compression angle stop shut off valves or 3-piece ball valves as required by local codes.

Terminate 1" above finished floor unless otherwise specified.

Provide 24 hour leak test at 100 PSI with oilless clean air.

Where indicated rough-in, cap lines for future use.

Dental vacuum lines. Use only schedule 40 PVC pipe (or copper) if required by local code. Slope 1/4" for every 10 feet of run toward pump location. Avoid 90 degree angles when possible. See termination schedule. Final hook up by plumber. Vacuum lines to run sub grade and to follow trench layout.

Indicates termination point.

PLUMBING TERMINATIONS FOR EQUIPMENT REQUIRED BY SERVICE DEPARTMENT FOR DRY VACUUM SYSTEMS

THIS FACILITY IS A CATEGORY 3 GAS AND VACUUM SYSTEMS CLINIC AS DESCRIBED IN NFPA 99 2012 GUIDELINES, CHAPTER 5: GAS AND VACUUM SYSTEMS.

Vacuum Systems:

Operatory - 1-1/2" stub up in each operatory terminating in 3/4" female pipe thread

Pump - 1-1/2" - 2" (VERIFY) female pipe thread

Water - 3/8" compression fitting (angle stop)

Compressed air for Instrumentation Devices Systems:

At compressor - 1/2" female pipe thread

In operatory - 3/8" compression angle stop or 3-piece ball valves as required by local codes

PLUMBING INSTALLATION INSTRUCTIONS FOR CENTRAL OXYGEN AND NITROUS OXIDE PIPING SYSTEMS. ALL ASPECTS OF INSTALLATION AND STORAGE TO COMPLY WITH CURRENT CODES.

THIS FACILITY IS A CATEGORY 3 GAS AND VACUUM SYSTEMS CLINIC AS DESCRIBED IN NFPA 99 2012 GUIDELINES, CHAPTER 5: GAS AND VACUUM SYSTEMS.

- Plumber furnish and install the copper tubing.
A. Use type "K" or "L"; Pre-cleaned, degreased, capped copper tubing.
B. Use 1/2" O.D. tubing for oxygen lines.
C. Use 3/8" O.D. tubing for nitrous oxide lines.
D. Braze all joints.
E. Mark pipelines every 20 feet. Blue for nitrous oxide, Green for oxygen.
F. Install quick connect boxes and tank room manifold supplied by dental dealer.
- Test system for leaks.
A. Use water pumped dry nitrogen.
B. Fill system to 150 psi.
C. Disconnect nitrogen tank.
D. System should hold pressure for 24 hours. Allow + or - 5 psi for temperature differences.
- All piping must comply with local plumbing and fire regulations. Must be Medical Gas Certified Plumber.
- All aspects of installation must comply with current codes.

NITROUS GAS AND OXYGEN TANK STORAGE ROOM CONSTRUCTION AND VENTILATION FOR LEVEL 3 INSTALLATIONS ONLY.

Provide 1-hour construction of closet. Natural ventilation is permitted if gas stored is under 3000 cubic feet.

Provide two lowered openings, each having a minimum free area of 72 square inches, with one located within 1 foot of the floor and one located within 1 ft of the ceiling. Lowered natural ventilation shall only be allow directly to the outside. Provide mechanical ventilation to all indoor locations.

DO NOT SCALE FROM THESE DRAWINGS. USE CALLED-OUT DIMENSIONS ONLY.

NOTE:

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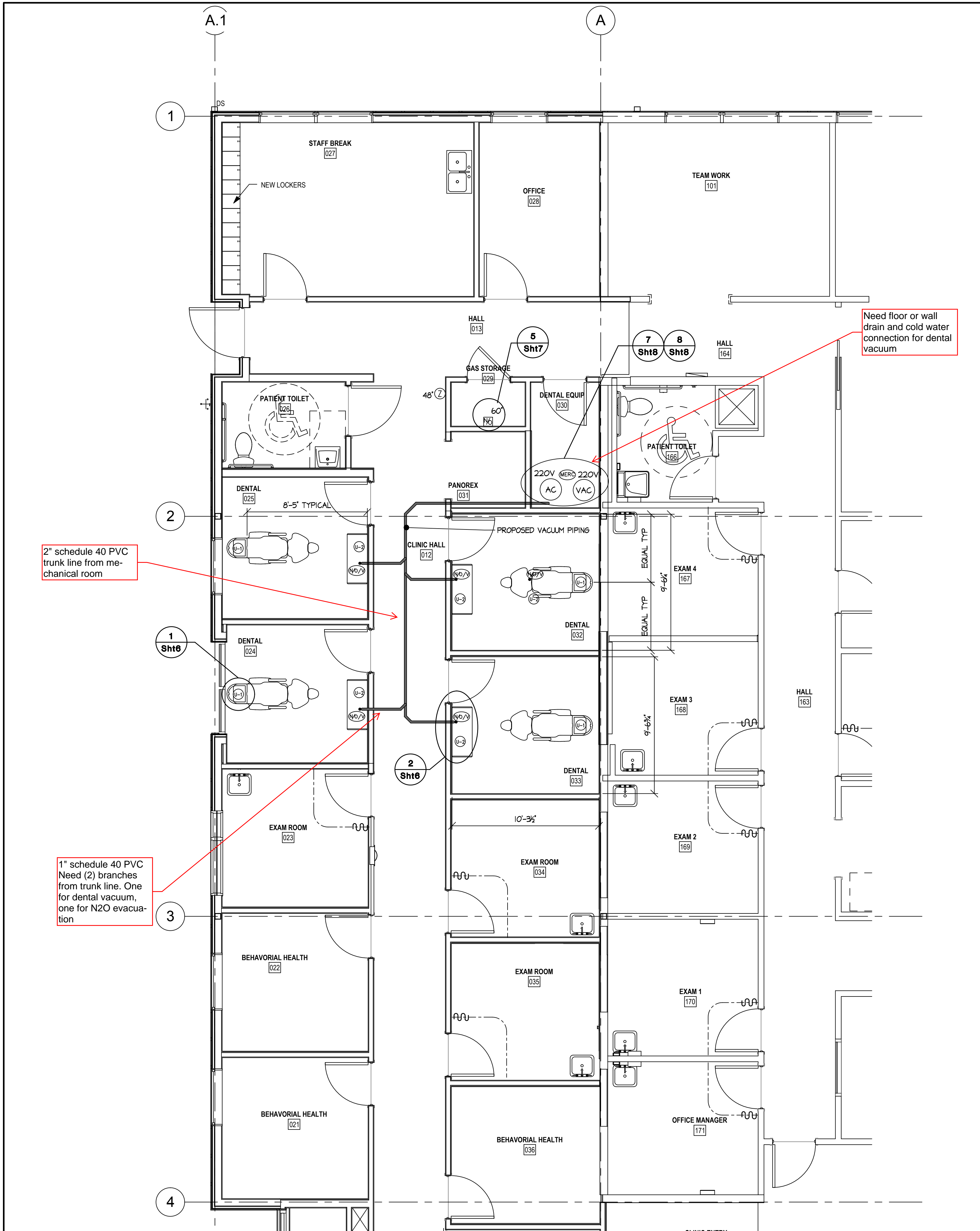
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See Mechanical Specification and Detail Sheets for further information.

THIS IS A SUGGESTED PLAN WITH SPECIFICATIONS FOR THE DENTAL EQUIPMENT ONLY.



Your Local **BURKHART** Branch . . .

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American Dental Association

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American Dental Association

DENTAL EQUIPMENT PLAN FOR **Winding Waters Community Health** Joseph OR

Sheet **5** of **8**

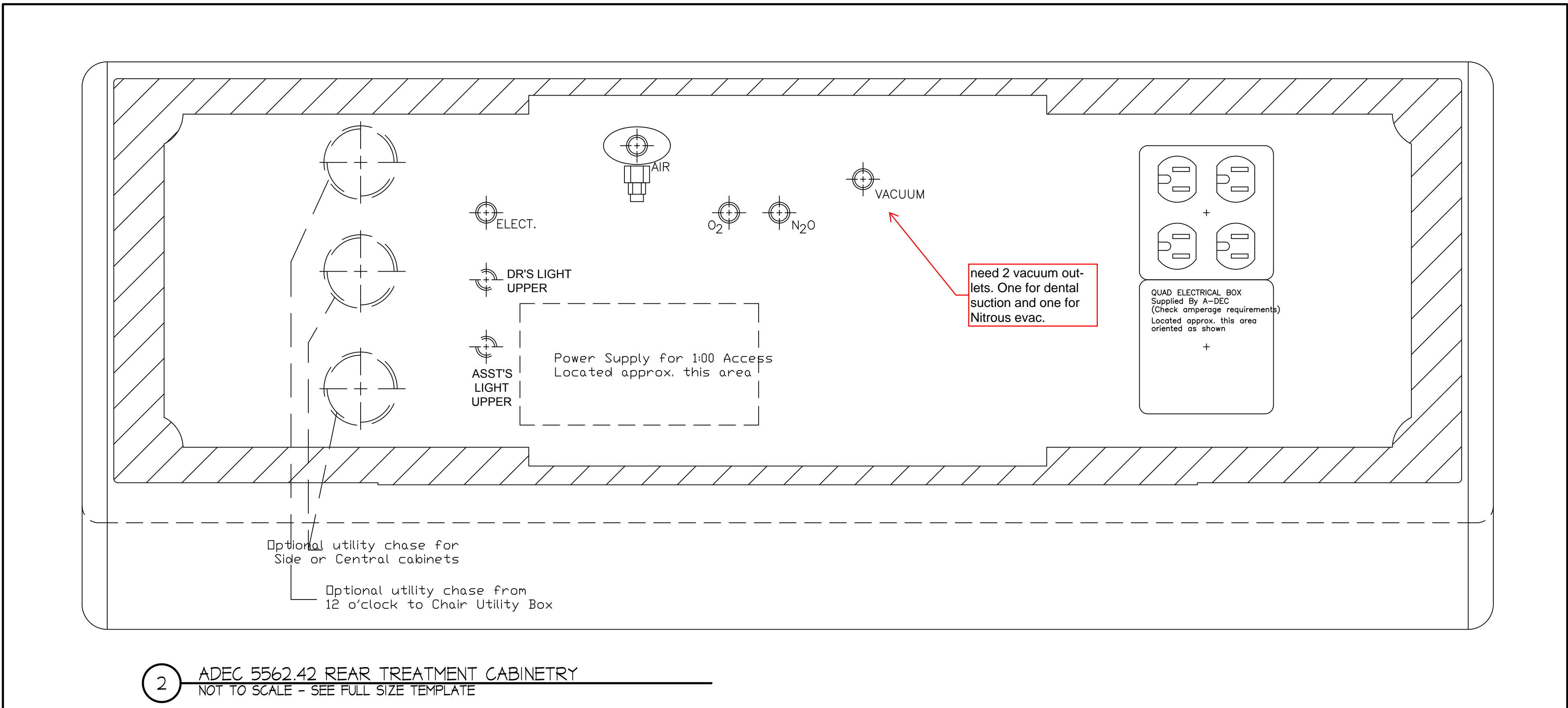
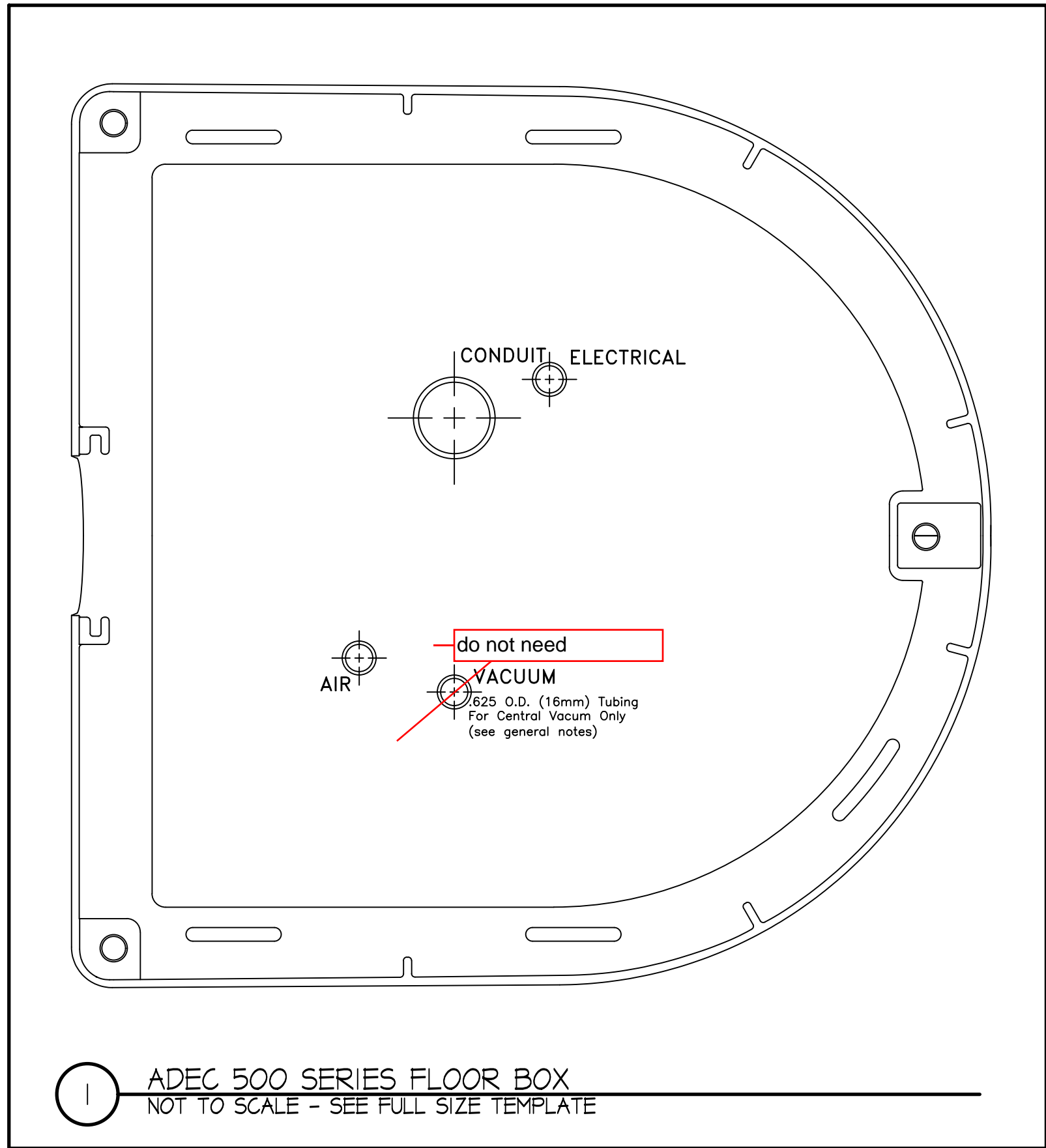
Drafted By: MA #1 1-9-2019 MA #2 1-21-2019 MA #3 2-5-2019 TWS #4 2-21-2019

Equipment Specialist: **DAN STUCKI** Plan # **4**

Architect/Designer/Contractor: **REEDY BERG**

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

NOTICE: This proposed plan is offered to assist our customer's architect or designer, AND IT IS NOT TO BE USED AS A WORKING DRAWING. Burkhart Dental Supply Co. does NOT authorize use of this plan for any other purposes, and we disclaim all liability if used for any other purposes.



DO NOT SCALE FROM THESE DRAWINGS.
USE CALLED-OUT DIMENSIONS ONLY.

NOTE:
All framing, bracing, door sizes, floor levels, cabinet heights, rest room and lunch room facilities (if any) and other design details should be modified to comply with latest Americans With Disabilities Act (A.D.A.) guidelines and similar State requirements. Architect or Contractor must submit plans to building and other local officials as necessary for compliance with all Federal, State and Local building codes, including A.D.A. guidelines, before commencing work. Notify Burkhart of any changes that would modify any dental treatment rooms and/or any dental cabinet layout.

These plans are not meant to be a design for building-out an operatory but, instead, represent only a sample layout; a similar layout of the equipment in a dentist's facilities will not necessarily be compatible with the A.D.A. or other applicable law or code. The manufacturers and Burkhart are not Architects or Engineers; the manufacturers and Burkhart do not warrant or represent that the plans are in compliance with the A.D.A. or other applicable law or code. The dentist should consult their Architects prior to installing the equipment to ensure compliance with the A.D.A. or other applicable law or code.

The Contractor should furnish all electrical, plumbing, and structural requirements listed, as this is necessary before the dental equipment can be installed. The tenant, or Burkhart, will furnish the dental equipment. Check all measurements with the actual building dimensions, or Architect's plans. The specifications shown on this plan have not been checked for compliance with Federal, State or Local building codes and regulations.

Listed requirements show only the services, connections and fixtures required for the dental office equipment shown; and these drawings do not provide for the electrical, mechanical and structural requirements for the building or office as a whole.

See Mechanical Specification and Detail Sheets for further information.

THIS IS A SUGGESTED PLAN WITH SPECIFICATIONS FOR THE DENTAL EQUIPMENT ONLY.

DENTAL MECHANICAL DETAILS
FOR
Winding Waters Community Health
Joseph, OR

Sheet 6 of 8	
Drafted By:	
MA #1 1-9-2019	
MA #3 2-5-2019	
TXS #4 2-21-2019	

Equipment Specialist:	DAN STUCKI	Acct. Manager:	REEDY BERG
Plan #	4	Architect/Designer/Contractor	
Scale:	NTS		

**BURKHART**
Integrity Knowledge Client Success

**ADA**
MEMBER
American Dental Trade Association

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Your Local **BURKHART** Branch . . .
YAKIMA BRANCH
1705 CREEKSIDE LOOP
YAKIMA, WA 98902
LOCAL: 509-248-5441 ■ FAX: 866-401-6649
www.burkhartdental.com

Prepare the Ceiling

Recommend Tools

Drill and 3/16" drill bit

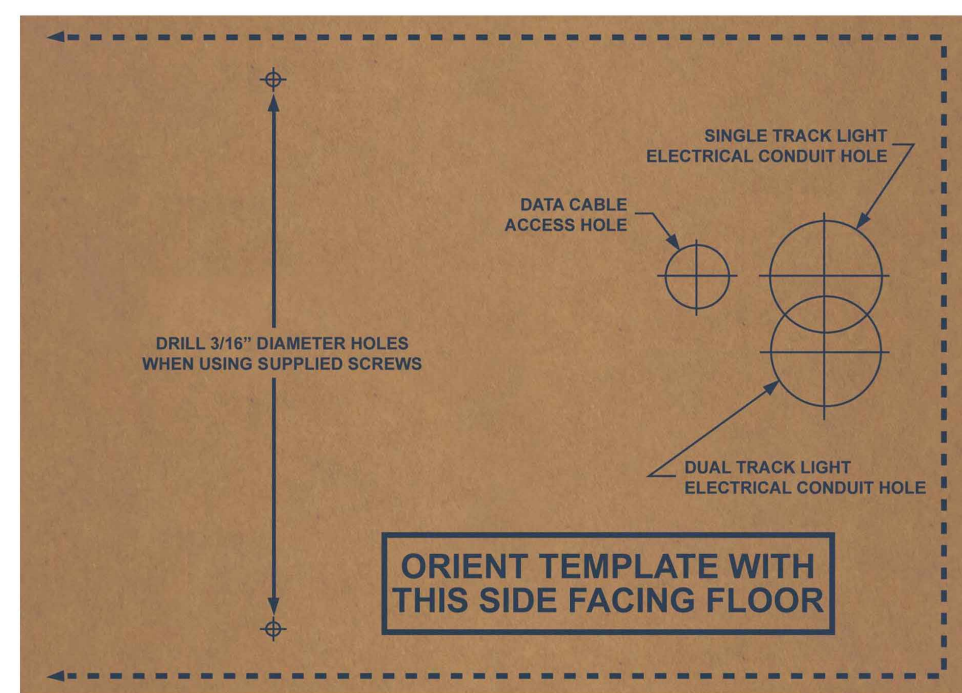
Check local and state code authorities about installation requirements for this product. Consult your operator floor plan to determine the installation location.

CAUTION Be sure the ceiling sub-structure supports a minimum of 200lb (90 kg).

Task 1. Determine the location of the ceiling joists.

Task 2. Use the template printed on the shipping box to mark where to drill the holes for the mounting bolts, power stub, and data line.

NOTE Read completely through this task before taking action.

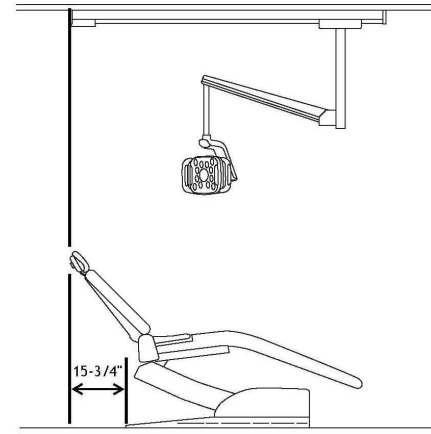


Template on the Shipping Box

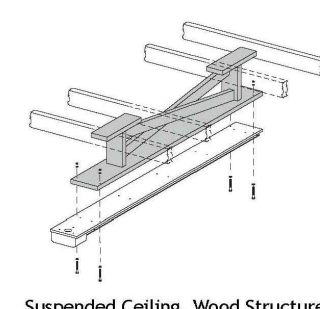
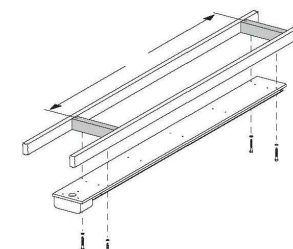
2

86.0336.00 Rev A

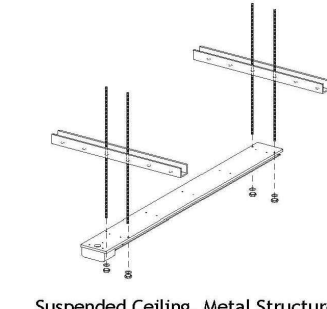
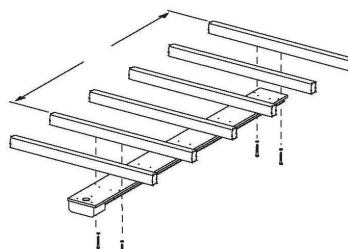
Position the template with the power supply housing 15-3/4" (469 mm) from the edge of the chair baseplate.



The screws must mount into a minimum of 2-1/2" (63.5 mm) of solid wood. If the installation requires different mounting hole locations, modify the ceiling sub-structure to accommodate the installation.



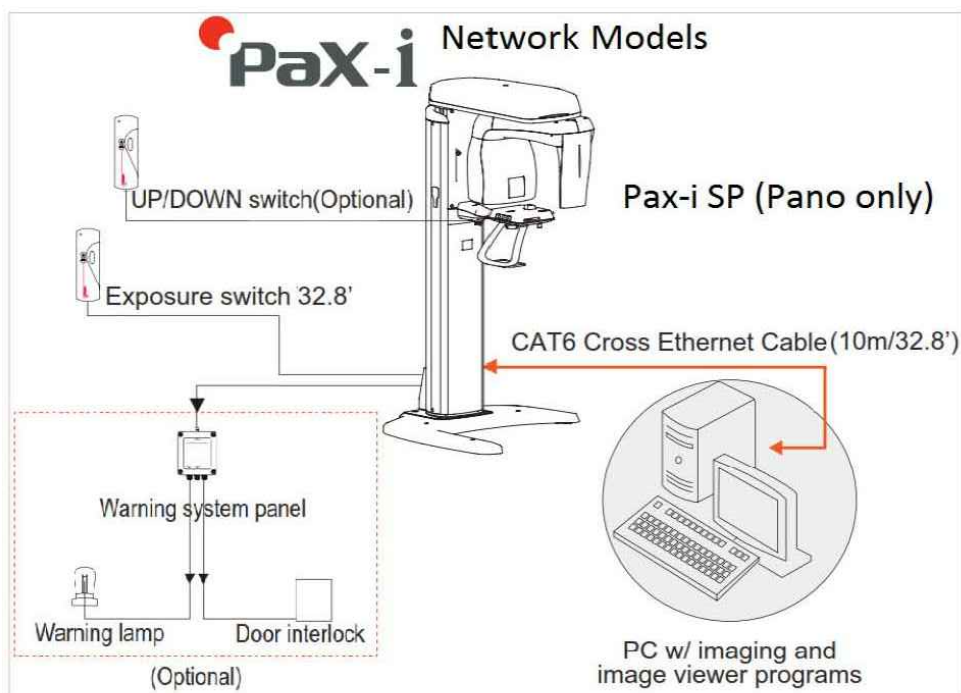
Task 3. Use a 3/16" bit to drill the pilot mounting holes. Drill the holes for the power stub and data line.



86.0336.00 Rev A

3

4 ADEC 577 LED CEILING MOUNTED TRACK LIGHT
NOT TO SCALE - SEE FULL SIZE TEMPLATE



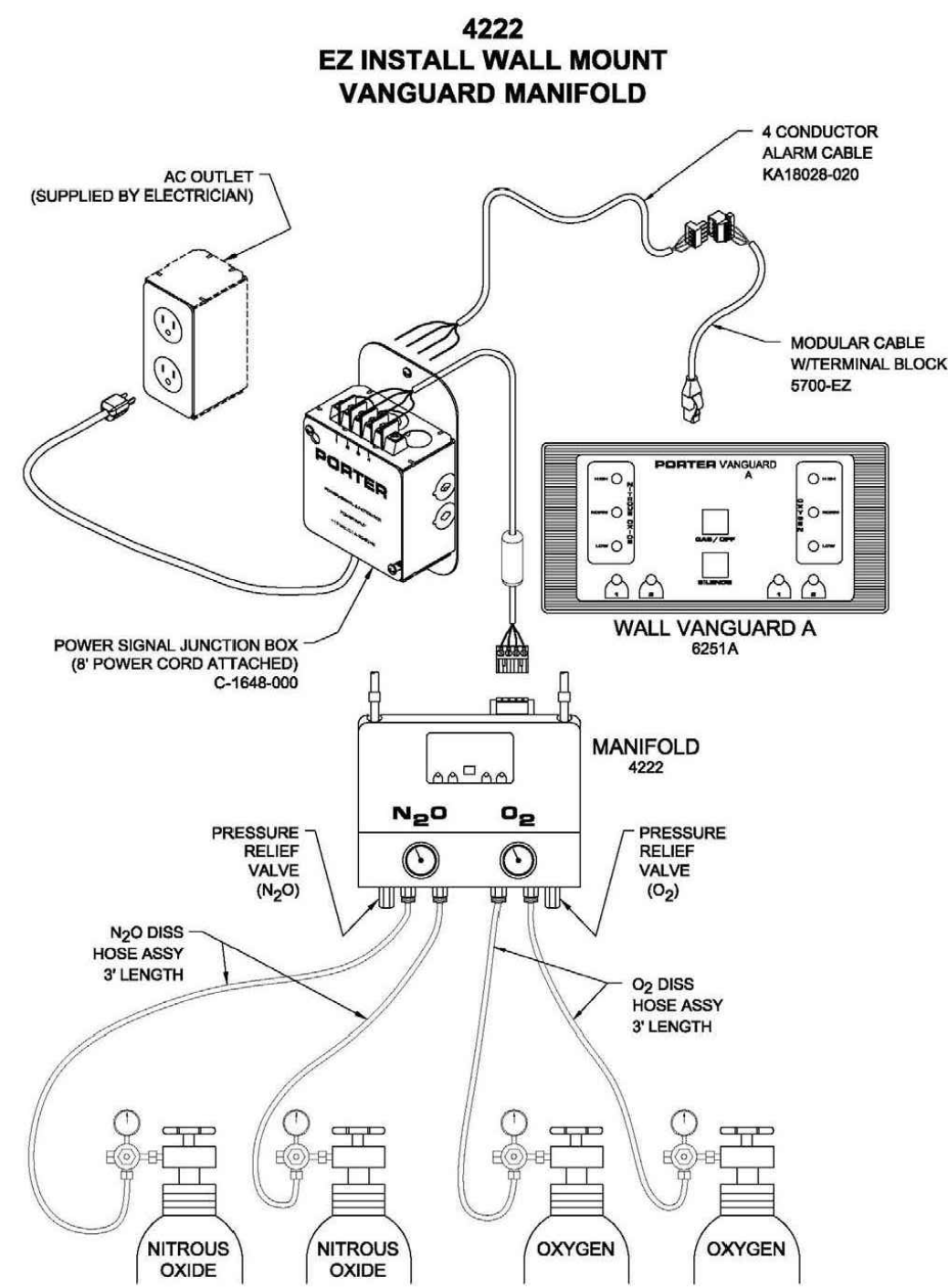
****Cable connections are made at the base of the column.

POWER REQUIREMENTS AND CABLE PULLING

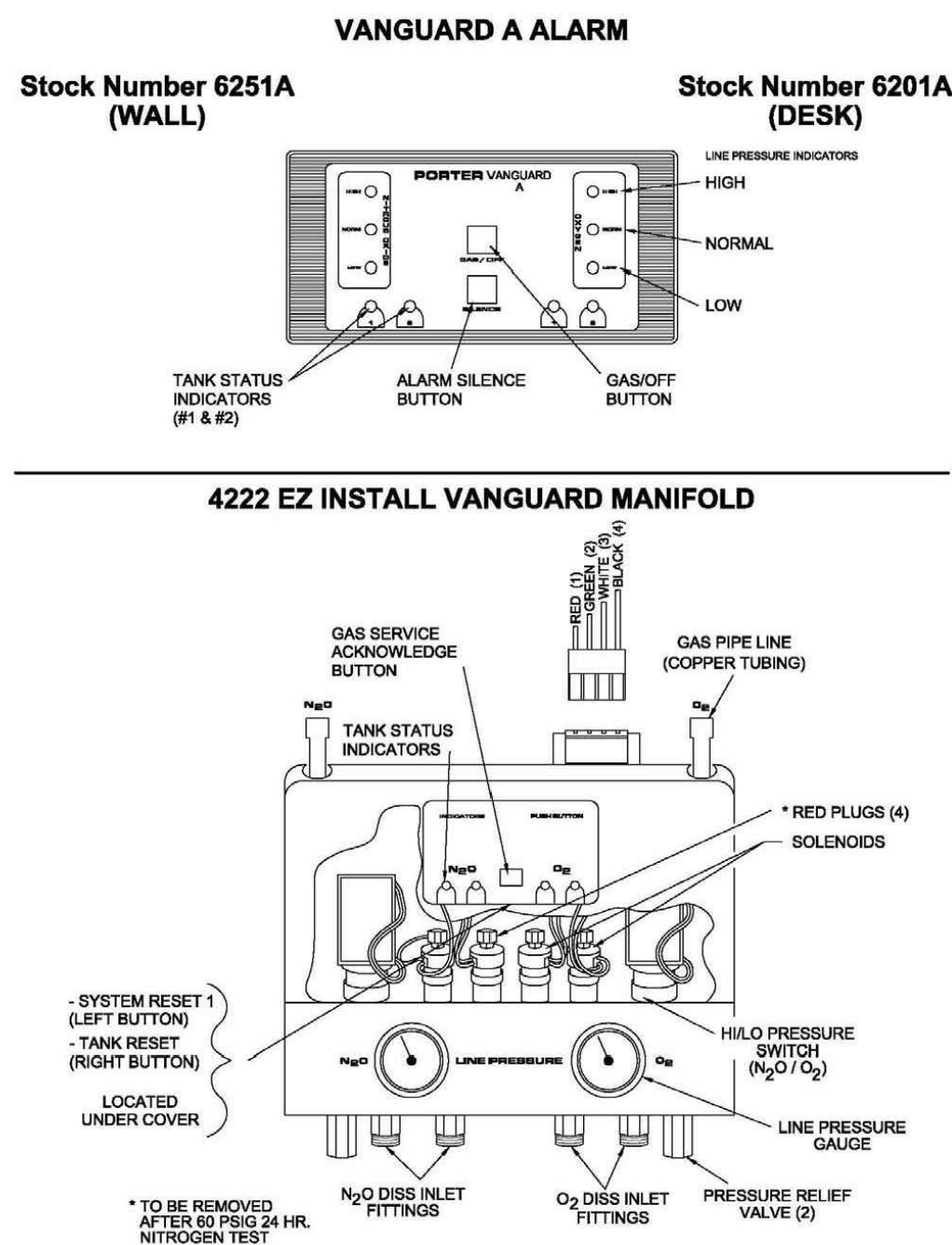
POWER REQUIREMENTS		PRE-PULLED FISH LINES FROM PAN TO PC	
20 Amp AC110V Dedicated (Dedicated)		3/4" cable 1/2 inch diameter (Required for PANO LP/SIC models)	
AC110V GFI/80 Power Strip (On PC Tower)		DIRECT CONNECTION FROM PAN TO PC BY CAT5 IS REQUIRED	
AC110V GFI/80 Power Strip (On PC Monitor)			
Minimum PC Requirements		Recommended PC Requirements	
Hardware	HP EliteDesk 800 G1 Tower	ATX Mid Tower	
CPU	Intel Core i3-4150 3.5 GHz 1600 MHz cache	Intel Core i5-4570 3.4 GHz 6MB Cache	
RAM	16GB DDR3-1600 DIMM RAM (8GB non ECC UDIMM)	16GB DDR3-1333 Non ECC SDRAM	
Hard disk drive (HDD)	500GB SATA 7200 RPM HDD	500GB SATA 7200 RPM HDD	
Graphics Processing Unit	Integrated Intel HD 4400 Graphics	Dedicated Nvidia 3GB, 2GB, and/or VGA	
Ethernet Interface (2)	Intel Ethernet G20-T1 PCIe x1 Gb NIC (Optional)	Gigabit Ethernet (PCI-e x1) Provided	
Serial Port	1 (On board)	1 (On board)	
Power Supply	≥ 320 Watts (84% Efficiency)	320 Watts	
PCI Slots	2 PCI Express x1 Slot	1 PCI Express 2.0 250W	
	2 PCI Express x16 Slot	1 PCI Express 2.0 x16 135W	
	1 PCI Slots	1 PCI Slots	
CD/DVD Drive	Slim SuperMulti Optical Disc Drive	CD/DVD/RW Drive	
Monitor	22" IPS 1920x1080 screen resolution	22" IPS 1920x1080 screen resolution	
Operating System	Windows 7 Professional 64-bit OS	Windows 7 Professional 64-bit OS	
Dimensions	Mid Tower 8.5" x 17.5" x 15.5" H"	ATX Mid Tower Form Factor	

FOR QUESTIONS PLEASE CONTACT VATECH SUPPORT @ 888.936.6872 option #2

6 VATECH PAX-I DIGITAL 2D PANORAMIC XRAY
NOT TO SCALE - SEE FULL SIZE TEMPLATE



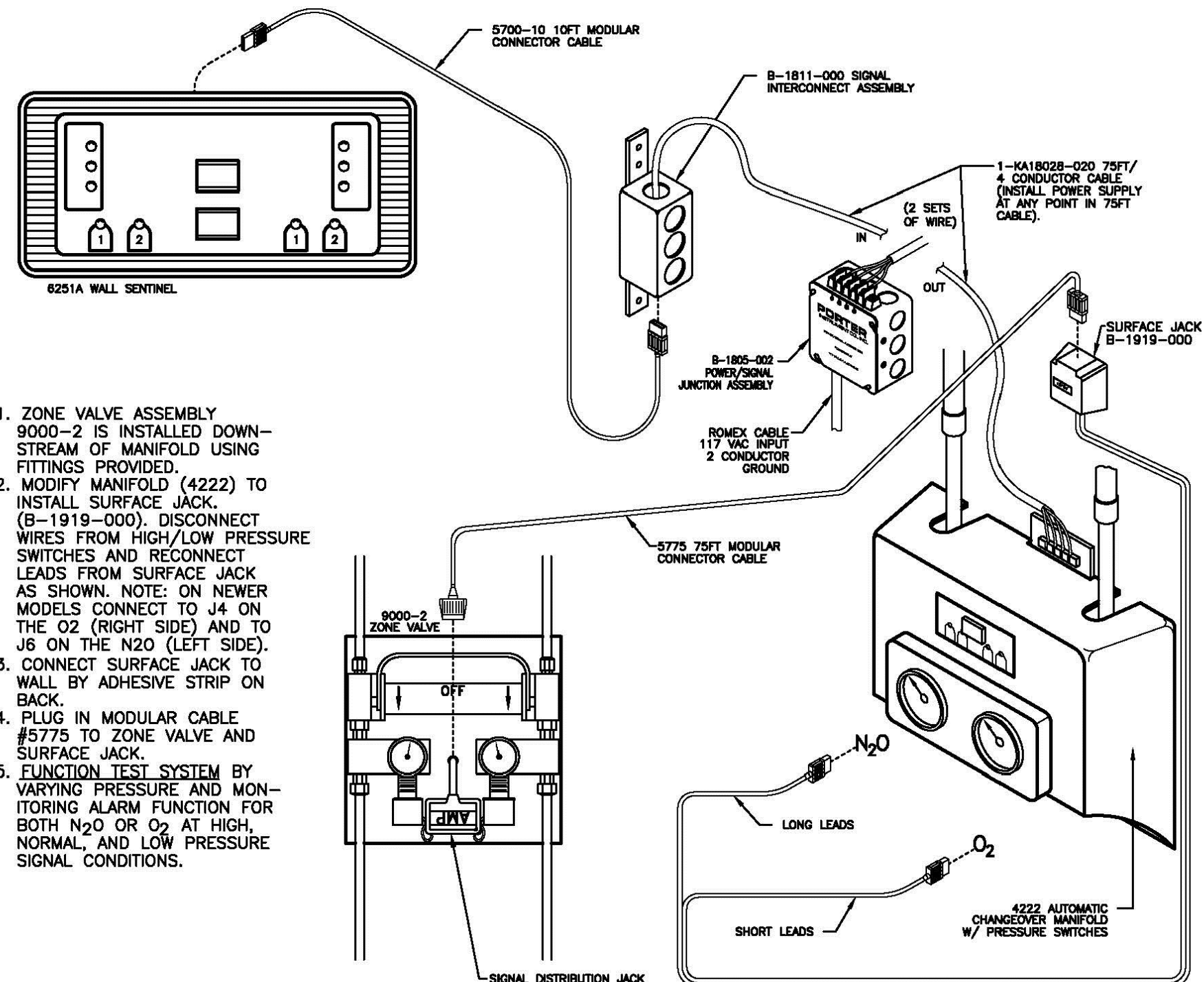
4



6

5 PORTER GAS MANIFOLD SYSTEM
NOT TO SCALE - SEE FULL SIZE TEMPLATE

9000-2 INSTALLATION



1. ZONE VALVE ASSEMBLY 9000-2 IS INSTALLED DOWN-STREAM OF MANIFOLD USING FITTINGS PROVIDED.
2. MODIFY MANIFOLD (4222) TO INSTALL SURFACE JACK. (8-1919-000). DISCONNECT WIRES FROM HIGH/LOW PRESSURE SWITCHES AND RECONNECT LEADS FROM SURFACE JACK AS SHOWN. NOTE: ON NEWER MODELS CONNECT TO J4 ON THE O2 (RIGHT SIDE) AND TO J6 ON THE N2O (LEFT SIDE).
3. CONNECT SURFACE JACK TO WALL BY ADHESIVE STRIP ON BACK.
4. PLUG IN MODULAR CABLE #5775 TO ZONE VALVE AND SURFACE JACK.
5. FUNCTION TEST SYSTEM BY VARYING PRESSURE AND MONITORING ALARM FUNCTION FOR BOTH N2O OR O2 AT HIGH, NORMAL, AND LOW PRESSURE SIGNAL CONDITIONS.

SH 1 OF 1

FM-622

DENTAL MECHANICAL DETAILS
FOR

Winding Waters Community Health
Joseph, OR

Sheet 7 of 8

Drafted By:
MA #1
1-9-2019
MA #3
2-5-2019
TWS #4
2-21-2019

Equipment Specialist:
DAN STUCKI
Architect/Designer/Contractor

Scale:
NTS

Acct. Manager:
REEDY BERG

Plan # 4

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