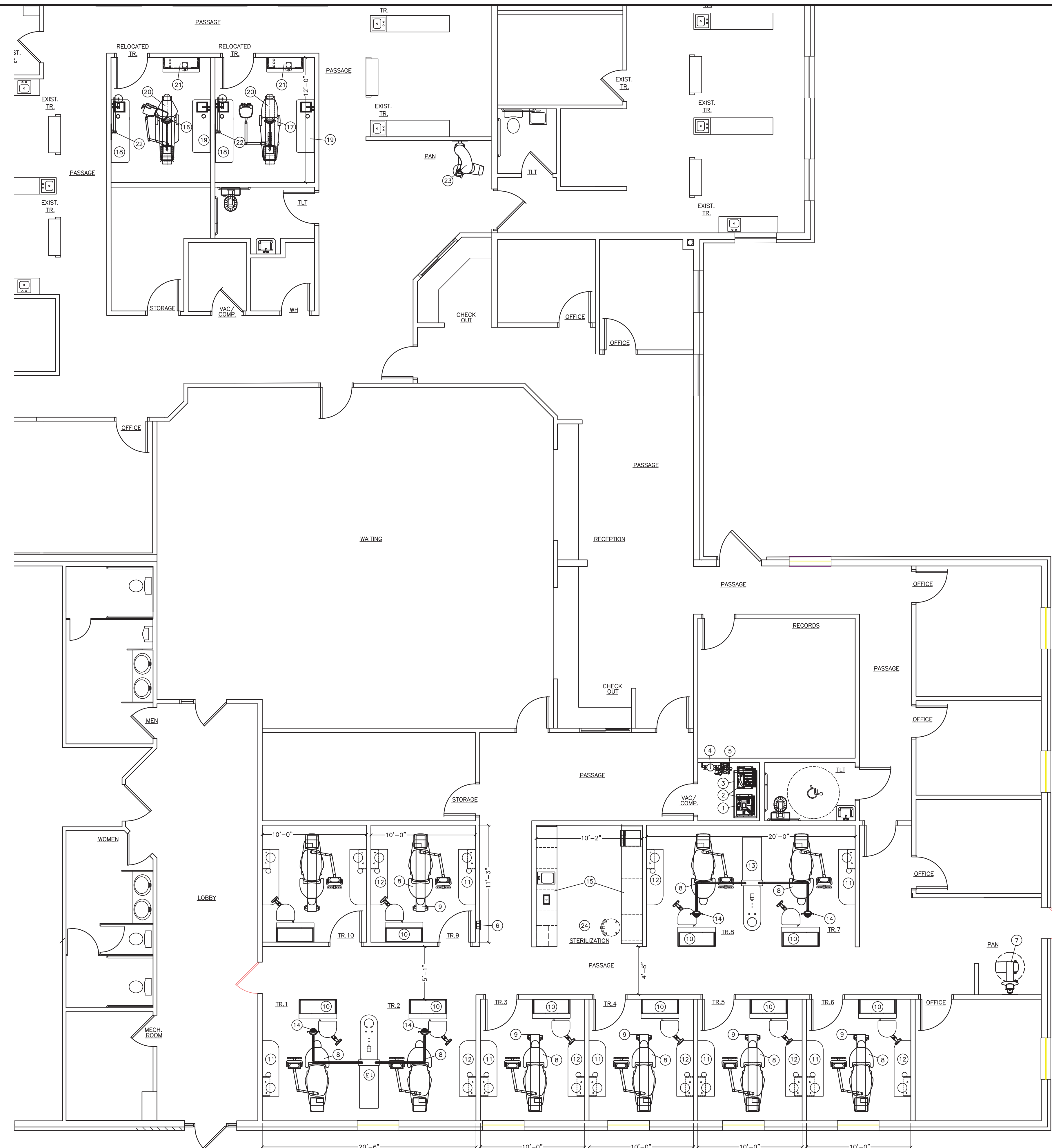


DENTAL EQUIPMENT LEGEND

ITEM	DESCRIPTION	STATUS	LOCATION
1	AIR TECH AIRSTAR 70 AIR COMPRESSOR W/ REMOTE AIR INTAKE	NEW	VAC./COMP.
2	AIR TECH MOJAVE 2V5 VACUUM PUMP	NEW	VAC./COMP.
3	AIR TECH. XL STACK RACK	NEW	VAC./COMP.
4	AIR TECH. ACADIA AMALGAM SEPARATOR	NEW	VAC./COMP.
5	AIR TECH REMOTE WATER CONTROL VALVE	NEW	VAC./COMP.
6	AIR TECH. 3-BUTTON REMOTE CONTROL PANEL (A/W/V)	NEW	CORRIDOR (VERIFY LOCATION)
7	INSTRUMENTARIUM OP200 PAN X-RAY	NEW	PAN
8	MIDMARK ULTRA TRIM CHAIR, W/ LR DELIVERY, & MONITOR MOUNT	NEW	TREATMENT ROOMS 1 THRU 10
9	MIDMARK TRACK LIGHT	NEW	TREATMENT ROOMS 3, 4, 5, 6, 9 & 10
10	MIDMARK REAR CABINET w/ WORKSURFACE & ASSIST DELIVERY	NEW	ALL TREATMENT ROOMS
11	MIDMARK SIDE CABINET w/ SINK LEFT & UPPER DISPENSING CABINET	NEW	TREATMENT ROOMS 1, 3, 4, 5, 6, 7, 9 & 10
12	MIDMARK SIDE CABINET w/ SINK RIGHT & UPPER DISPENSING CABINET	NEW	TREATMENT ROOMS 2, 3, 4, 5, 6, 8, 9 & 10
13	MIDMARK CENTER ISLAND CABINET	NEW	BETWEEN TREATMENT ROOMS 1 & 2, 7 & 8
14	MIDMARK CENTER ISLAND CABINET LIGHT	NEW	BETWEEN TREATMENT ROOMS 1 & 2, 7 & 8
15	MIDMARK STERI CENTER	NEW	STERILIZATION
16	ADEC DECADE CHAIR W/ DR DELIVERY	EXIST.	RELOCATED TR.
17	BELMONT CHAIR W/ DR DELIVERY	EXIST.	RELOCATED TR.
18	BELMONT DR. SIDE SINK CABINET	EXIST.	RELOCATED TR.
19	BELMONT ASSIT. SIDE SINK CABINET	EXIST.	RELOCATED TR.
20	ADEC 6300 TRACK LIGHT	EXIST.	RELOCATED TRS
21	BELMONT REAR CABINET W/ ASSIST. INST.	EXIST.	RELOCATED TRS
22	BELMONT 096 INTRAL ORAL X-RAY.	EXIST.	RELOCATED TRS
23	PLANMECA PAN X-RAY	NEW	PAN
24	MISCELLANEOUS STERILIZATION EQUIPMENT: ULTRASONIC CLEANER, & M11 AUTOCLAVE(S)	NEW	STERILE (VERIFY LOCATIONS)
-	REMAINING MISCELLANEOUS CABINETRY & MILLWORK BY OTHERS OR EXISTING	NEW/EXIST.	-



0 1/2" 1" 2" 3" 4" 5"

1 DENTAL EQUIPMENT PLAN
SCALE: 3/16" = 1'-0"



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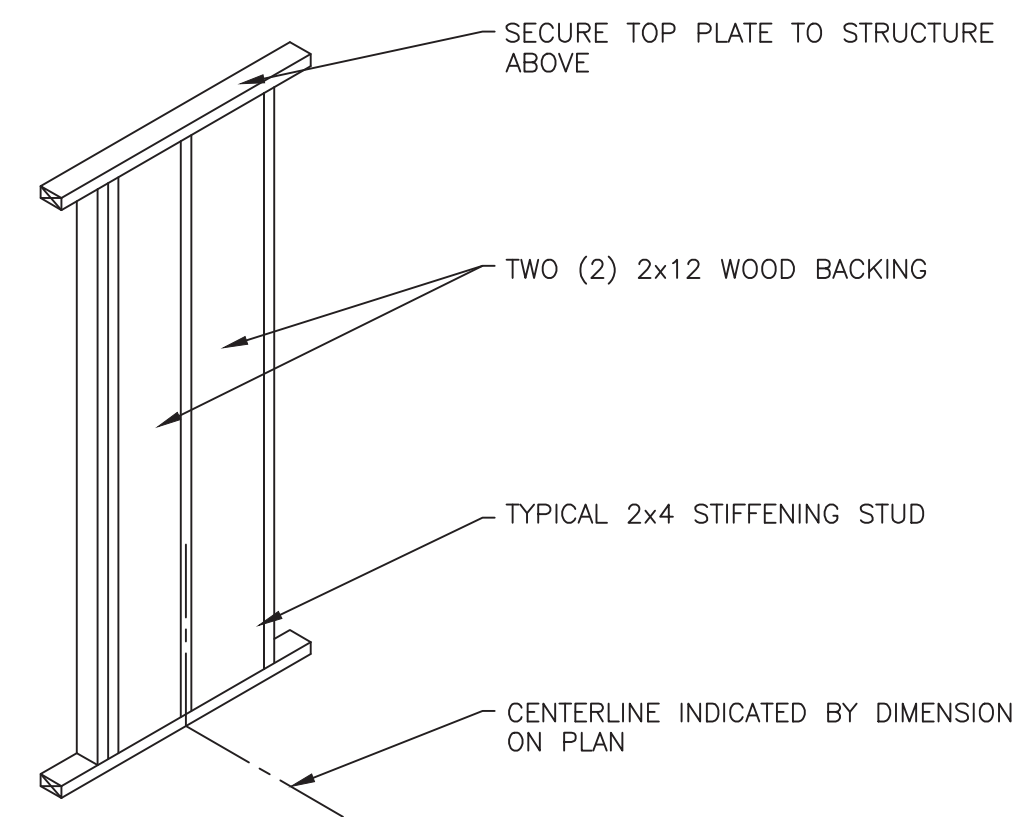
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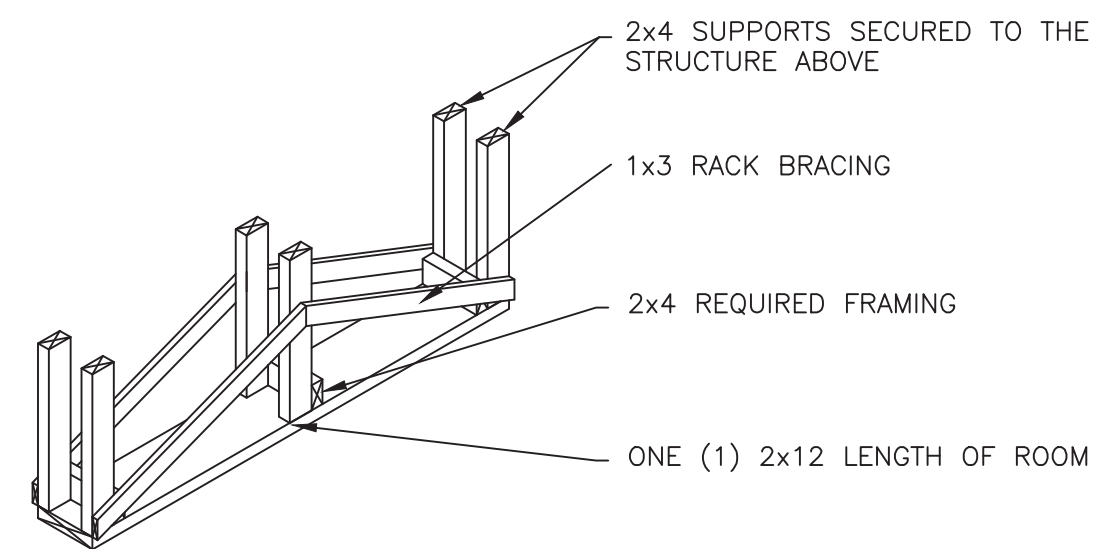
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REVISION 1	01/26/16
SPEC REVISION 1	02/01/16

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DRAWN BY:	CHECKED BY:
DPC	PMS

DRAWING TITLE:
DENTAL EQUIPMENT PLAN
SHEET:
Q1.1

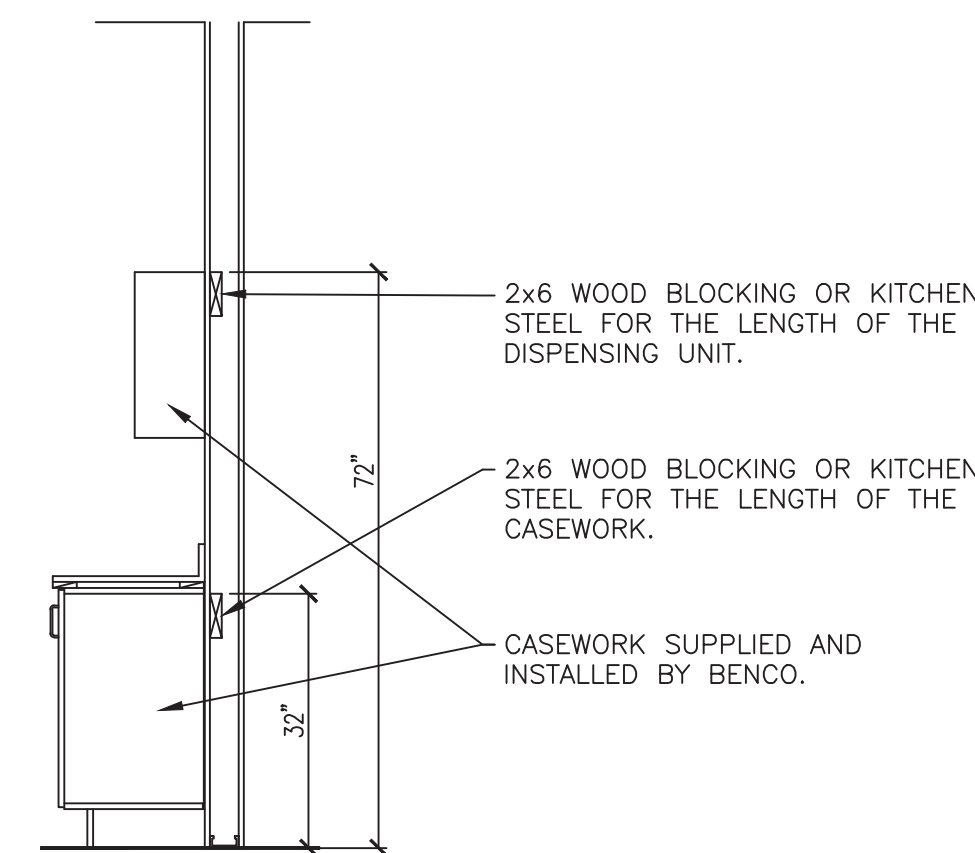


DETAIL - TYPICAL PAN X-RAY BACKING REF.: SOURCE: 01 N.T.S.

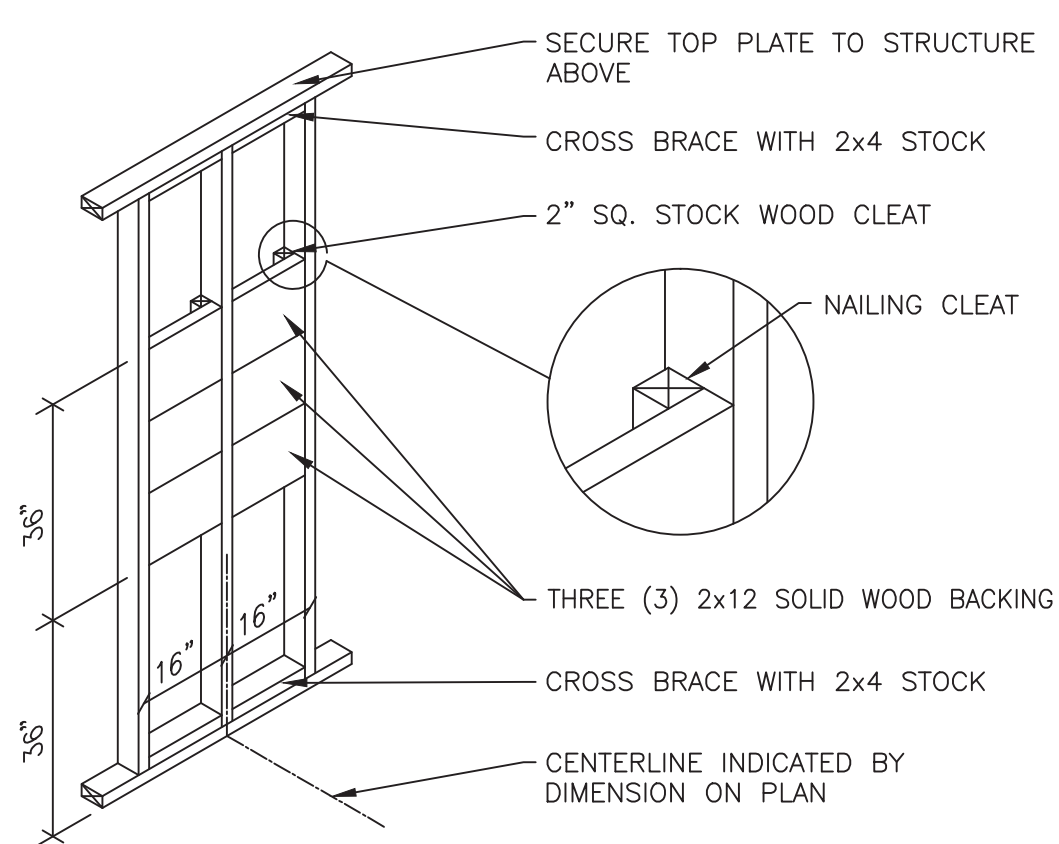


SUPPORT SHALL BE CONSTRUCTED OF SOLID WOOD AND ABLE TO SUPPORT NO LESS THAN 250lbs.

DETAIL - DENTAL TRACK LIGHT SUPPORT REF.: SOURCE: 02 N.T.S.

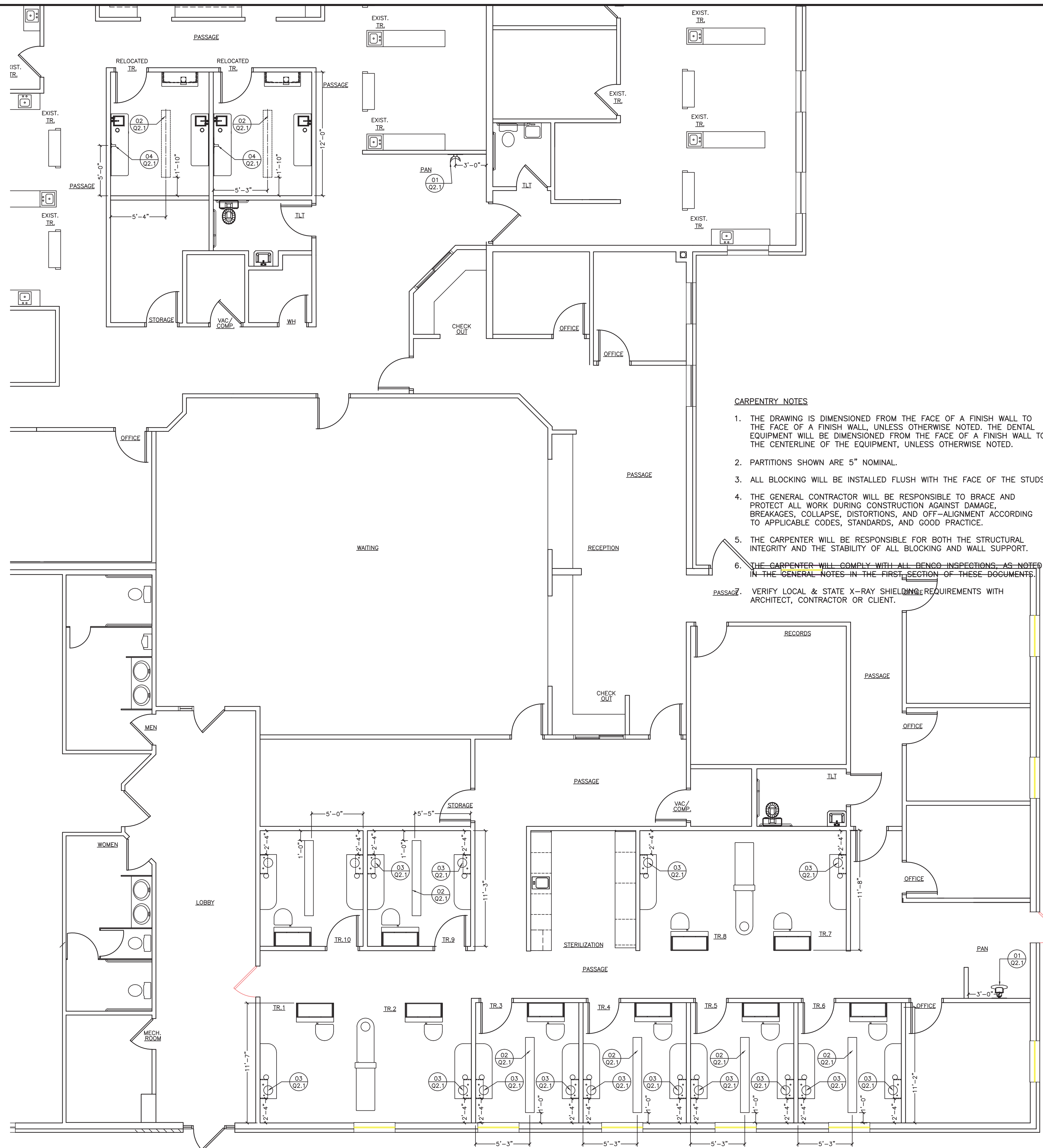


DETAIL - TYPICAL CASEWORK BLOCKING REF.: SOURCE: 03 N.T.S.



DETAIL - TYP. X-RAY BACKING REF.: SOURCE: 04 N.T.S.

2 DENTAL CARPENTRY DETAILS SCALE: NOT TO SCALE



CARPENTRY NOTES

1. THE DRAWING IS DIMENSIONED FROM THE FACE OF A FINISH WALL TO THE FACE OF A FINISH WALL, UNLESS OTHERWISE NOTED. THE DENTAL EQUIPMENT WILL BE DIMENSIONED FROM THE FACE OF A FINISH WALL TO THE CENTERLINE OF THE EQUIPMENT, UNLESS OTHERWISE NOTED.
2. PARTITIONS SHOWN ARE 5" NOMINAL.
3. ALL BLOCKING WILL BE INSTALLED FLUSH WITH THE FACE OF THE STUDS.
4. THE GENERAL CONTRACTOR WILL BE RESPONSIBLE TO BRACE AND PROTECT ALL WORK DURING CONSTRUCTION AGAINST DAMAGE, BREAKAGES, COLLAPSE, DISTORTIONS, AND OFF-ALIGNMENT ACCORDING TO APPLICABLE CODES, STANDARDS, AND GOOD PRACTICE.
5. THE CARPENTER WILL BE RESPONSIBLE FOR BOTH THE STRUCTURAL INTEGRITY AND THE STABILITY OF ALL BLOCKING AND WALL SUPPORT.
6. THE CARPENTER WILL COMPLY WITH ALL BENCO INSPECTIONS, AS NOTED IN THE GENERAL NOTES IN THE FIRST SECTION OF THESE DOCUMENTS.
7. VERIFY LOCAL & STATE X-RAY SHIELDING REQUIREMENTS WITH ARCHITECT, CONTRACTOR OR CLIENT.

1 DENTAL CARPENTRY PLAN SCALE: 3/16" = 1'-0"

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CHECKED BY:	PMS

DRAWING TITLE:	DENTAL CARPENTRY PLAN & DETAILS
SHEET:	Q2.1

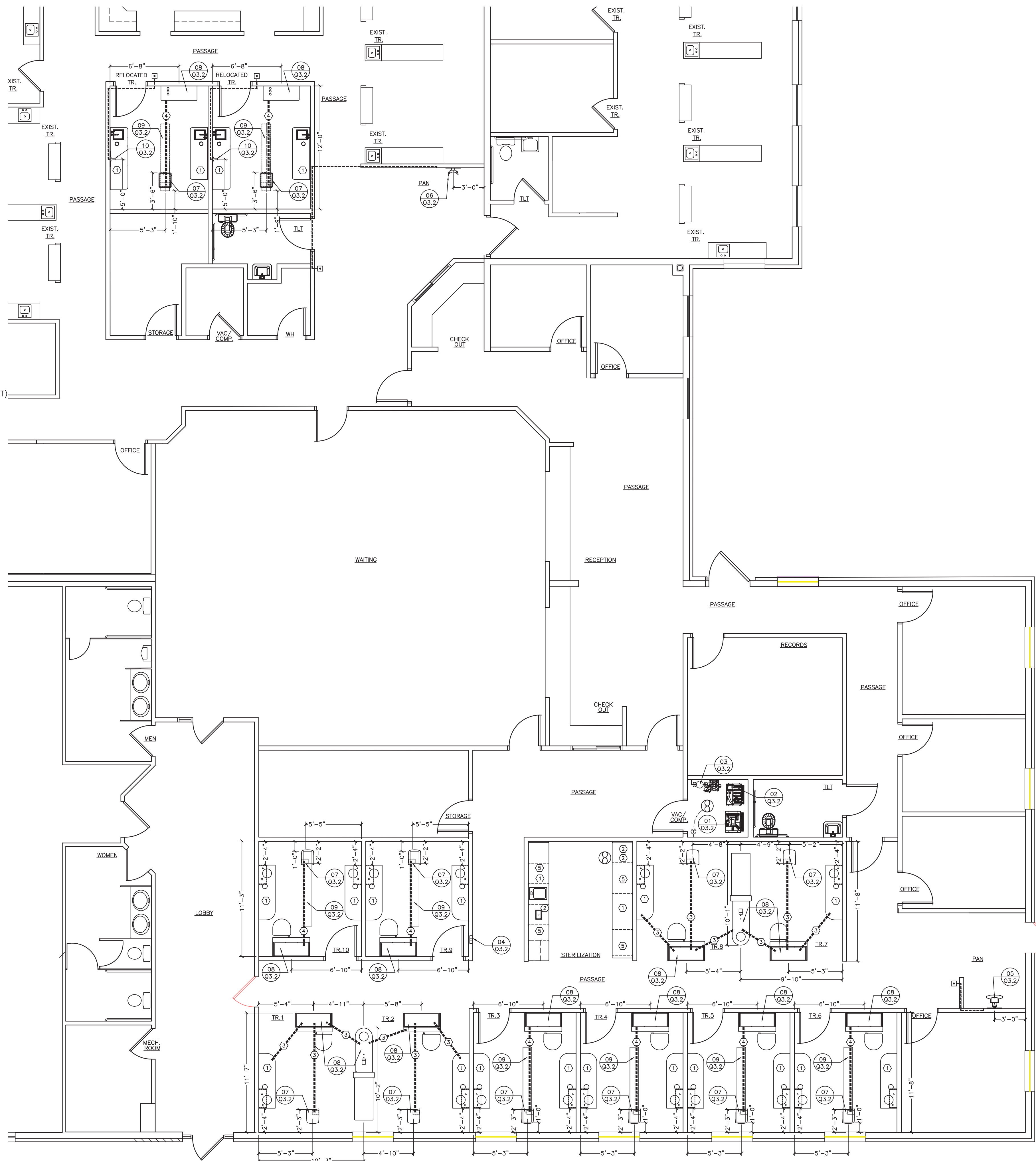
ELECTRICAL NOTES

- ALL EQUIPMENT WILL BE SINGLE PHASE, UNLESS OTHERWISE NOTED.
- ALL WIRING WILL BE CONCEALED WITHIN THE WALLS AND/OR FLOOR, UNLESS OTHERWISE NOTED.
- THE ELECTRICIAN WILL TAG ALL WIRES AT TERMINATION POINTS.
- THE ELECTRICIAN WILL REMOVE ALL EXISTING RECEPTACLES AND SWITCHES IN THE AREA OF WORK. THE ELECTRICIAN WILL EITHER INSTALL A BLANK PLATE OVER RECEPTACLE OR SWITCH BOX OR REMOVE BOX ENTIRELY. THE ELECTRICIAN WILL TERMINATE WIRING AND CONDUIT IN A MANNER IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE.
- THE ELECTRICIAN WILL INSTALL COMPLETE AND MAKE FINAL HOOK-UP TO THE FOLLOWING DENTAL EQUIPMENT, SUPPLIED BY EITHER THE DOCTOR OR BENCO DENTAL, INCLUDING, BUT NOT LIMITED TO:
 - AIR COMPRESSOR
 - VACUUM PUMP
 - WATER CONTROL VALVE
 - CONTROL PANEL
- THE ELECTRICIAN WILL BE ONSITE ON THE DAY(S) OF INSTALLATION TO WORK WITH THE BENCO REPRESENTATIVE ON FINAL HOOK-UP. THE ELECTRICIAN WILL SUPPLY AND INSTALL ANY AND ALL MATERIALS INDICATED IN THE ELECTRICAL DETAILS SHOWN AND MANUFACTURER'S INSTALLATION INSTRUCTION SHEETS.
- IN THE EVENT OF ANY EQUIPMENT BEING RELOCATED TO ANOTHER LOCATION, ANY AND ALL CIRCUITS MUST BE TERMINATED BY THE ELECTRICIAN IN ACCORDANCE WITH LOCAL CODE. VERIFY RESPONSIBILITY WITH THE OWNER.
- THE ELECTRICIAN WILL SEAL ALL PENETRATIONS THROUGH THE FLOOR WITH A FIRESTOP OR EQUIVALENT WATERPROOFING.
- THE ELECTRICIAN WILL COMPLY WITH ALL BENCO INSPECTIONS, AS NOTED IN THE GENERAL NOTES ON THE FIRST PAGE OF THESE DOCUMENTS.
- ALL 120 VOLT, 20 AMP OUTLETS INSTALLED WITHIN 6 FEET OF A SINK AND THOSE LOCATED OUTDOORS SHALL HAVE GFCI PROTECTION.
- ALL 120 VOLT, 20 AMP DENTAL EQUIPMENT OUTLETS INSTALLED WITHIN 6 FEET OF A WATER SOURCE SHALL HAVE GFCI PROTECTION.

NOTES LEGEND

- RECEPTACLES ABOVE &/OR BELOW COUNTERTOPS (VERIFY QUANTITY & LOCATION WITH DOCTOR)
- AUTOClave/ULTRASONIC RECEPTACLE - 110V, DEDICATED 20 AMP CIRCUIT (VERIFY LOCATION WITH BENCO REP. AT TIME OF LAYOUT)
- 2" CONDUIT (SEE DETAIL 11 ON SHEET Q3.2 FOR EXAMPLE)
- 2" CONDUIT (SEE DETAIL 12 ON SHEET Q3.2 FOR EXAMPLE)
- TASK LIGHTING SWITCHED RECEPTACLES, 110V DUPLEX RECEPTACLE 52" A.F.F. MOUNTED HORIZONTALLY (VERIFY W/ BENCO REP)

ELECTRICAL LEGEND	
SYMBOL	DESCRIPTION
	THERMOSTATIC ON/OFF SWITCH
	WIRING, CONCEALED IN WALL OR CEILING
	EXHAUST FAN MOUNTED IN CEILING (VERIFY CFM REQUIREMENTS WITH ARCHITECT)
	EXPOSURE BUTTON
	CONDUIT, CONCEALED IN FLOOR



1 DENTAL ELECTRICAL PLAN
SCALE: 3/16" = 1'-0"



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DENTAL ELECTRICAL PLAN	
SHEET:	
Q3.1	




PLUMBING NOTES

1. 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.
2. 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.
3. THE PLUMBER WILL SUPPLY AND INSTALL SEPARATE MANUAL SHUT-OFF VALVES ON ALL SINKS, DENTAL UNITS, AND OUTLETS REQUIRING WATER AND/OR AIR.
4. ALL SINKS AND FAUCETS WILL BE CONNECTED BY THE PLUMBER.
5. ALL PIPES WILL BE CONCEALED WITHIN THE WALLS AND/OR THE FLOOR, UNLESS OTHERWISE NOTED ON THE BENCO DRAWINGS.
6. THE PLUMBER WILL SEAL ALL PENETRATIONS THROUGH THE FLOOR WITH A FIRESTOP OR EQUIVALENT WATERPROOFING.
7. ALL PIPES WILL BE FLUSHED CLEAR OF ALL DEBRIS BY THE PLUMBER.
8. 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.
9. THE PLUMBER WILL PROVIDE AND INSTALL ALL WATER SAFETY DEVICES (i.e. CHECK VALVES, BACKFLOW PREVENTERS, ETC.) IN ACCORDANCE WITH LOCAL CODE.
10. 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
11. 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.
12. THE PLUMBER WILL COMPLY WITH ALL BENCO INSPECTIONS, AS NOTED IN THE GENERAL NOTES ON THE FIRST PAGE OF THESE DOCUMENTS.
13. GENERAL DENTAL PLUMBING LINES SHOWN ARE FOR GRAPHICALLY DISPLAYING ORIGINATION AND TERMINATION POINTS. FIELD CONDITIONS MAY ALTER PLUMBING LINE LAYOUT, PER PLUMBER'S DISCRETION. THE FINAL LAYOUT OF THE PLUMBING LINES IS THE RESPONSIBILITY OF THE PLUMBER.
14. THE APPLICATION OF DENTAL COMPRESSED AIR AS NOTED ON THIS PLAN IS NOT USED FOR LIFE-SUPPORT PURPOSES SUCH AS RESPIRATORS, IPPB MACHINES, ANALGESIA, ANESTHESIA, AND SO FORTH. IT IS ONLY USED AS INCIDENTAL AIR DISCHARGED INTO THE ORAL CAVITY AND NOT A PRIMARY SOURCE OF AIR TO SUSTAIN LIFE.

MEDICAL GAS NOTES (IF APPLICABLE)

1. ENGINEER AND CONTRACTOR TO FOLLOW ALL APPLICABLE DESIGN AND INSTALLATION PROCEDURES AS LISTED UNDER NFPA #99C LEVEL 3 (MEDICAL GASES).
2. ALL MEDICAL GAS AND VACUUM PIPING LOCATED WITHIN FLOOR SLABS AND UNDERGROUND WITHIN BUILDINGS SHALL BE:
 - a. INSTALLED IN ONE (OR MORE) CONTINUOUS CONDUITS THAT ARE OF SUFFICIENT SIZE TO PERMIT SUBSEQUENT INSTALLATION, REMOVAL AND REPLACEMENT OF THE GAS AND/OR VACUUM LINES.
 - b. EACH TUBE PULLED INTO THE CONDUIT SHALL BE A CONTINUOUS LENGTH HAVING NO JOINTS WITHIN THE CONDUIT.
3. ALL TUBING SHALL BE COPPER TYPE 'K' OR 'L'. ENTIRE SYSTEM SHALL BE PRESSURE TESTED AT 150 PSI FOR 24 HOURS. PRESSURE TEST CAN ONLY BE PERFORMED WITH NITROGEN, NOT COMPRESSED AIR. ALL JOINTS MUST BE BRAZED AS PER CODE.
4. MEDICAL GAS CLOSETS NEED TO BE VENTED TO OUTSIDE AIR. (CHECK LOCAL CODES IF REQUIRED)
5. WHEN (4) OR MORE TREATMENT ROOMS ARE EQUIPPED WITH MEDICAL GAS, THE DENTAL SUITE MUST BE EQUIPPED WITH A SPRINKLER SYSTEM. (CHECK LOCAL CODES IF REQUIRED)

SINK LEGEND

-  **RELOCATED SINK** - SINK, FAUCET AND STRAINER SUPPLIED BY OWNER. PLUMBER SHALL INSTALL HOT AND COLD WATER LINES, WASTE AND TRAP ROUGH-IN PER LOCAL CODES. PLUMBER SHALL BE RESPONSIBLE FOR FINAL HOOKUP. SEE MANUFACTURER'S SPECIFICATIONS FOR EXACT LOCATION AND REQUIREMENTS.
-  **SINK** - SINK, FAUCET AND STRAINER PROVIDED WITH CABINETRY SUPPLIED BY BENCO. PROVIDE AIR LINE WITH SHUTOFF FOR AIR ACTUATED FAUCET CONTROL MECHANISM. PLUMBER SHALL BE RESPONSIBLE FOR FINAL HOOKUP. SEE MANUFACTURER'S SPECIFICATIONS FOR EXACT LOCATION AND REQUIREMENTS.
-  **EXISTING SINK** - NO WORK REQUIRED



1 DENTAL PLUMBING PLAN
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SHEET:
Q4.1

