# SANTA CLARA VALLEY MEDICAL CENTER

751 S BASCOM AVE, SAN JOSE, CA 95128

# DIGITAL IMAGING EQUIPMENT REPLACEMENT

# HCAi #S222248-43-00

## GENERAL NOTES

1) THE CONTRACTOR SHALL VISIT THE SITE INCLUDING ALL AREAS INDICATED ON THE DRAWINGS TO THOROUGHLY FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS. CONTRACTOR SHALL VERIFY SAID CONDITIONS AND DIMENSIONS AT JOB SITE PRIOR TO BIDDING AND START OF CONSTRUCTION. PRIOR TO INSPECTION OF THE EXISTING FACILITY, THE CONTRACTOR MUST RECEIVE PERMISSION FOR ACCESS FROM THE OWNER OR THE DESIGNATED REPRESENTATIVE. IF DISCREPANCIES ARE FOUND, THE ARCHITECT SHALL BE NOTIFIED FOR CLARIFICATION. CONTACT THE ARCHITECT TO CLARIFY ALL UNCLEAR DRAWING ITEMS PRIOR TO BIDDING. BY SUBMITTING A BID, THE CONTRACTOR ACCEPTS THE CONDITIONS UNDER WHICH HE SHALL BE REQUIRED TO PERFORM THE WORK.
2) MECHANICAL AND ELECTRICAL DRAWINGS ARE SUPPLEMENTARY TO THE ARCHITECTURAL DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO CHECK WITH THE ARCHITECTURAL DRAWINGS BEFORE THE INSTALLATION OF ELECTRICAL AND MECHANICAL WORK. ANY DISCREPANCY BETWEEN THE ARCHITECTURAL AND THE OTHER DRAWINGS SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION FOR CLARIFICATION. WORK INSTALLED IN CONFLICT WITH THE ARCHITECTURAL DRAWINGS SHALL BE CORRECTED BY THE GENERAL CONTRACTOR AT HIS OWN EXPENSE, AND AT NO EXPENSE TO THE OWNER OR ARCHITECT.
3) DO NOT SCALE DRAWINGS. LARGER SCALE DRAWINGS GOVERN OVER SMALLER SCALE DRAWINGS.
4) ABBREVIATIONS THROUGHOUT THE PLANS ARE THOSE IN COMMON USE. ARCHITECT SHALL DEFINE INTENT OF ANY IN QUESTION.
5) FINISH FLOOR ELEVATIONS ARE TO TOP OF CONCRETE, UNLESS OTHERWISE NOTED.
6) CEILING HEIGHT DIMENSIONS ARE TO FINISHED SURFACE OF CEILING.
7) WALL DIMENSIONS ARE TO FACE OF FINISH UNLESS NOTED OTHERWISE.

### CONSTRUCTION NOTES

1) DUCTS PENETRATING STUD WALLS SHALL BE PROVIDED WITH NECESSARY FRAMES AND BRACING AROUND THE OPENING.
2) CONTACT BETWEEN DISSIMILAR METALS SHALL BE PROPERLY SEPARATED BY THE CONTRACTOR.
3) ALL DUST, NOISE AND ODORS SHALL BE CONTROLLED PER OWNER'S REQUIREMENTS AND THOSE OF THE AHU.
4) LEGAL EXITS SHALL NOT BE BLOCKED AT ANY TIME.
5) THE CONTRACTOR SHALL PROTECT ALL FINISHED WORK AND SURFACES FROM DAMAGE DURING THE COURSE OF WORK AND SHALL REPLACE AND/OR REPAIR ALL DAMAGE CAUSED BY CONTRACTOR OR SUB-CONTRACTOR PERSONNEL.
6) UPON COMPLETION OF WORK, ALL CONSTRUCTION AREAS SHALL BE LEFT BROOM CLEAN AND FREE OF DEBRIS.
7) OWNER'S INSPECTOR: AN INSPECTOR EMPLOYED BY THE OWNER IN ACCORDANCE WITH TITLE 24, CCR, SHALL BE ASSIGNED TO INSPECT THE WORK. THE WORK OF CONSTRUCTION IN ALL STAGES OF PROGRESS SHALL BE SUBJECT TO THE PERSONAL CONTINUOUS OBSERVATION OF THE INSPECTOR. HE SHALL HAVE FREE ACCESS TO ANY OR ALL PARTS OF THE WORK AT ANY TIME. THE CONTRACTOR SHALL FURNISH THE INSPECTOR REASONABLE FACILITIES FOR OBTAINING SUCH INFORMATION AS MAY BE NECESSARY TO KEEP HIM FULLY INFORMED WITH RESPECT TO THE PROGRESS AND MANNER OF THE WORK AND THE CHARACTER OF THE MATERIALS. INSPECTION OF THE WORK SHALL NOT RELIEVE THE CONTRACTOR FROM ANY OBLIGATION TO FULFILL THIS CONTRACT.
8) CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF EXISTING HVAC FILTERS WITHIN THE AREA OF WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF AND, WHERE REQUIRED BY THE HCAi AND/OR CITY FIRE MARSHALS, THE OPERATIONAL MAINTENANCE OF FIRE LIFE SAFETY DEVICES WITHIN THE AREA OF WORK.
9) ONLY NEW ITEMS OF RECENT MANUFACTURE, OF THE QUALITY SPECIFIED, FREE FROM DEFECTS, WILL BE PERMITTED IN THE WORK.
10) WHEN CONFLICTING INFORMATION IS FOUND IN THIS SET OF DRAWINGS AND SPECIFICATIONS, THE MOST RESTRICTIVE/COSTLY REQUIREMENT SHALL PREVAIL. AN RFI SHOULD BE SENT TO THE ARCHITECT FOR CLARIFICATION, PRIOR TO CONSTRUCTION. IF THE GENERAL CONTRACTOR CHOOSES TO PROCEED WITH THE WORK WITHOUT CLARIFICATION FROM THE ARCHITECT, THE GENERAL CONTRACTOR SHALL BEAR ALL OF THE COST WITHOUT ADDITIONAL COSTS TO THE OWNER.
11) ANCHORAGE AND SUPPORTS OF ALL EQUIPMENT TO BE INSTALLED, AS A PART OF THIS PROJECT SHALL BE DETAILED ON CONSTRUCTION DOCUMENTS, EXCEPT THOSE EXEMPT BY 2019 CBC SECTION 1616A.1.12. EQUIPMENT SUPPORTS AND ANCHORAGE SHALL BE APPROVED BY THE APPROPRIATE DESIGN PROFESSIONAL OF RECORD AND HCAi AS A PART OF FIELD REVIEWS/OBSERVATIONS. THE INSPECTOR OF RECORD (IOR) SHALL ASSURE THAT THE ABOVE REQUIREMENTS ARE ENFORCED. (CBC 107 AND 1616A)
12) WHEN INSTALLING DRILLED-IN ANCHORS AND/OR POWDER DRIVEN PINS IN EXISTING NON-PRESTRESSED REINFORCED CONCRETE, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING BARS. WHEN INSTALLING THEM INTO EXISTING PRESTRESSED OR PRE-TENSIONED CONCRETE LOCATE THE PRESTRESSED TENDONS BY USING A NON-DESTRUCTIVE METHOD PRIOR TO INSTALLATION. EXERCISE EXTREME CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE TENDONS DURING INSTALLATION. MAINTAIN A MINIMUM CLEARANCE OF ONE INCH BETWEEN THE REINFORCEMENT AND THE DRILLED IN ANCHOR AND/OR PIN. (CBC 1603A.1.10)
13) LAYOUT DRAWINGS, SHOWING THE BRACING/SUPPORT LOCATIONS AND REFERENCES TO DETAILS FROM THE RELEVANT HCAi PRE-APPROVALS FOR PIPING/DUCTS/CONDUITS EXCEPT FIRE SPRINKLERS, NEED TO BE SUBMITTED FOR USE BY THE IOR AND HCAi FIELD STAFF. THE LAYOUT DRAWINGS PREPARED PER ASCE 7 CHAPTER 13 AS MODIFIED BY CBC SECTION 1613A/1616A, NEED TO BE REVIEWED AND ACCEPTED BY THE AOR AND EOR (SE AND/OR ME/EE) PRIOR TO STARTING INSTALLATION OF THE BRACING/SUPPORT. IOR SHALL ENSURE THE ABOVE REQUIREMENT ARE SATISFIED (CAC 7-115, 7-126, 7-153, AND CBC 107).

### LIFE SAFETY

1) ALL EXIT DOORS SHALL BE OPERABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT.
2) ALL EXIT LIGHTING AND SIGNS TO HAVE MINIMUM 6-INCH HIGH LETTERS IN ACCORDANCE WITH CHAPTER 7 SECTION 7.10.6.1.1 NFPA 101. LIFE SAFETY CODE
3) EMERGENCY LIGHTING SHALL BE PROVIDED GIVING A VALUE OF ONE FOOT CANDLE AT FLOOR LEVEL IN ALL EXIT CORRIDORS.

### DRAWING SET

1) IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN A COMPLETE SET OF CONTRACT DOCUMENTS, ADDENDA, DRAWINGS AND SPECIFICATIONS. THE CONTRACTOR SHALL CHECK THE DRAWINGS OF THE OTHER TRADES AND SHALL CAREFULLY READ THE ENTIRE SPECIFICATIONS AND DETERMINE HIS RESPONSIBILITIES. FAILURE TO DO SO SHALL NOT RELEASE THE CONTRACTOR FROM DOING THE WORK IN COMPLETE ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS.
2) THE PROJECT DRAWINGS AND SPECIFICATIONS COMPRISE A COMPLETE SET OF CONSTRUCTION DOCUMENTS AND SHALL NOT BE SPLIT NOR SEPARATED BY THE CONTRACTOR DURING BIDDING NOR CONSTRUCTION. PARTIAL DRAWING SETS SHALL NOT BE PERMITTED TO BE USED ON THE JOB SITE.

### AS-BUILT DRAWINGS

1) THE CONTRACTOR SHALL PROVIDE AND KEEP UPDATED A COMPLETE RECORD SET OF DRAWINGS. THE RECORD DRAWINGS SHALL BE CORRECTED DAILY AND SHOW EVERY CHANGE FROM THE ORIGINAL DRAWINGS, INCLUDING THE ACTUAL LOCATIONS OF CONCEALED WORK. THIS SET OF DRAWINGS SHALL BE KEPT ON THE JOB SITE AND SHALL BE MADE AVAILABLE BY THE CONTRACTOR FOR REVIEW BY THE OWNER, ARCHITECT OR INSPECTOR OF RECORD UPON REQUEST.
2) AS BUILT DRAWINGS SHALL BE DELIVERED TO THE OWNER UPON FINAL COMPLETION OF THE WORK.
3) THE CONTRACTOR SHALL PROVIDE ONE COMPLETE SET OF DRAWINGS INDICATING ALL DISCREPANCIES, CHANGES, ETC., AND ACTUAL LOCATIONS OF CONCEALED WORK TO THE ARCHITECT AT THE COMPLETION OF WORK, PRIOR TO FINAL INSPECTIONS, CHANGES MUST BE DRAFTED, NO FREEHAND REVISIONS.

### PHASING THE WORK

1) INTENT IS TO PERMIT THE OWNER'S CONTINUAL OPERATION OF FACILITIES DURING PROGRESS OF WORK. AT NO TIME SHALL ANY WORK INTERFERE WITH THE OWNER'S NORMAL OPERATION WITHOUT NOTIFICATION PRIOR TO THE START OF ANY WORK.

### FIRE PROTECTION AND EQUIPMENT

1) PRIOR TO SPRINKLER INSTALLATION FIRE SPRINKLER CONTRACTOR SHALL SUBMIT PLANS TO THE ARCHITECT PRIOR TO SUBMITTING TO THE OFFICE OF STATEWIDE HEALTH AND PLANNING DEVELOPMENT .
2) PROVIDE FIRE EXTINGUISHERS AS REQUIRED BY FIRE LIFE SAFETY.
3) CONTRACTOR IS RESPONSIBLE FOR PROVIDING FIRE SPRINKLER SHOP DRAWINGS .

### FIRE STOPPING

1) DPOR SHALL PROVIDE PROPER FIRE STOPPING AT FLOOR AND WALL PENETRATION FOR PLUMBING. ELECTRICAL AND FIRE SPRINKLER LINES AS REQUIRED PER THE APPROPRIATE UL DESIGN LISTING NUMBER.

### INFECTION CONTROL

1) THE CONTRACTOR SHALL COMPLY WITH ALL INFECTION CONTROL POLICIES AND PROCEDURES ESTABLISHED BY THE HOSPITAL.INFECTION CONTROL PROCEDURES MUST BE REVIEWED AND UNDERSTOOD BY THE CONTRACTOR PRIOR TO BIDDING.

## HCAi NOTES

1) THE INTENT OF THE CONSTRUCTION DOCUMENTS IS TO RECONSTRUCT THE HOSPITAL BUILDING IN ACCORDANCE WITH THE 2019 CBC SHOULD ANY CONDITION DEVELOP NOT COVERED BY THE APPROVED CONSTRUCTION DOCUMENTS, WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH THE 2019 CBC, AMENDED CONSTRUCTION DOCUMENTS (ACDS) DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY HCAi BEFORE PROCEEDING WITH THE WORK.
2) SAMPLES AND SPECIFICATIONS OF ALL FINISH MATERIALS SHALL BE REVIEWED BY THE HCAi FIELD INSPECTOR PRIOR TO INSTALLATION. CARPET SAMPLES MUST BE ACCOMPANIED BY A REPORT FROM A TESTING LABORATORY CERTIFYING A FLAME SPREAD RATING OF 75 OR LESS AS PER STM-84-68.
3) CHANGES TO APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY ADDENDA OR CHANGE ORDER APPROVED BY HCAi, AS REQUIRED BY PART 1, TITLE 24.CCR.
4) PRE-APPROVED DETAILS. A COPY OF THE HCAi PRE-APPROVED DOCUMENTS MUST BE MADE AVAILABLE AT THE JOB SITE AT ALL TIMES. WORK MUST BE PERFORMED IN STRICT ACCORDANCE WITH THE PRE-APPROVED DOCUMENTS.
5) ALL NEW WORK SHALL BE IN ACCORDANCE WITH THE TITLE 24, C.C.R.
6) CHANGES TO APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY CHANGE ORDER PER PART1, TITLE 24, C.C.R.
7) THE OWNER SHALL PROVIDE AN INSPECTOR OF RECORD AS APPROVED BY HCAi TO PROVIDE INSPECTIONS AS DESCRIBED IN PART 1, TITLE 24, C.C.R.

## FIRE MARSHAL NOTES

1) FIRE PROTECTION SYSTEMS SHALL BE MAINTAINED OPERATIONAL AT ALL TIMES DURING ALTERATION. CFC 2019 TITLE 24, C.C.R.
FOLLOW THE REQUIREMENTS OF PIN 14 FOR FIRE PROTECTION DEVICES OUT OF SERVICE. (1)
2) SMOKE DETECTORS SHALL BE COVERED OR REMOVED DURING ALTERATION. WHEN REQUIRED BY LOCAL FIRE AUTHORITY, HEAT DETECTORS MAY BE SUBSTITUTED FOR SMOKE DETECTORS DURING ALTERATION.
NFPA 72-2019 WITH AMENDMENTS
3) REQUIRED EXITS SHALL BE MAINTAINED WHEN TEMPORARY CONSTRUCTION BARRIERS ARE PROVIDED.
4) TEMPORARY EXITING SHALL BE APPROVED BY THE HCAi FIRE MARSHALL AND THE LOCAL FIRE AUTHORITY. CFC 2019, TITLE 24, PART 9. ANY TEMPORARY EXITING AND LOCATION OF CONSTRUCTION BARRIERS SHALL BE APPROVED BY HCAi FIELD FIRE MARSHALL PRIOR TO START OF CONSTRUCTION.
5) FIRE RESISTIVE ASSEMBLIES AND CONSTRUCTION SHALL BE MAINTAINED, CFC 2019,TITLE 24, PART 9.
6) PLASTIC FILM WHEN USED FOR DUST PROTECTION SHALL BE FLAME RESISTANT, CFC 2019, TITLE 4 PART 9.

## APPLICABLE CODES

2019 CALIFORNIA ADMINISTRATIVE CODE (CAC)
PART - 1, TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)

2019 CALIFORNIA BUILDING CODE (CBC)
PART - 2, TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)
(2018 INTERNATIONAL BUILDING CODE) (IBC)

2019 CALIFORNIA ELECTRICAL CODE (CEC)
PART - 3, TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)
(2017 NATIONAL ELECTRICAL CODE) (NEC)

2019 CALIFORNIA MECHANICAL CODE (CMC)
PART - 4, TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)
(2018 UNIFORM MECHANICAL CODE) (UMC)

2019 CALIFORNIA PLUMBING CODE (CPC)
PART - 5, TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)
(2018 UNIFORM PLUMBING CODE) (UPC)

2019 CALIFORNIA FIRE CODE (CFC)
PART - 9, TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)
(2015 INTERNATIONAL FIRE CODE) (IFC)

2019 CALIFORNIA EXISTING BUILDING CODE (CEBC)
PART 10, TITLE 24, CCR (2018 INTERNATIONAL BUILDING CODE)

2019 CALIFORNIA GREEN BUILDING STANDARDS CODE (CAL GREEN)
PART 11, TITLE 24, CCR

2019 CALIFORNIA REFERENCED STANDARDS CODE (CRSC)
PART 12, TITLE 24, CCR

## CONSULTANTS

**ARCHITECT:**
GIVEN DESIGN GROUP, INC.
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JASON BENDER

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MICHAEL HOWIE

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ZHILBERT ASATRYAN

**MECHANICAL / PLUMBING ENGINEER:**
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ENCINO, CA 91436
TEL: 818-285-2650
JOEY BALDUCCI

## BUILDING DATA

| | |
|---|---|
| GATEWAY BUILDING: | BLDG 09 |
| BUILDING NO: | 02554 |
| CONSTR. TYPE: | I-A |
| OCCUPANCY: | I-2 (1) |
| YEAR BUILT: | 2004 |
| FIRE SPRINKLERS: | YES |
| NUMBER OF STORIES: | 5 |
| NUMBER OF BEDS: | 731 |
| SPC | 5 |
| NPC | 2 |
| SITE CLASS: | D - STIFF SOIL |
| SEISMIC DESIGN CATEGORY: | D |
| OCCUPANCY CATEGORY: | B |
| $S_S$ | 1.5 |
| $S_1$ | 0.6 |
| $S_{DS}$ | 1.2 |

## OWNER INFORMATION

OWNER SANTA CLARA VALLEY MEDICAL CENTER

ADDRESS 751 S BASCOM AVE, SAN JOSE, CA 95128

FACILITY # 10935

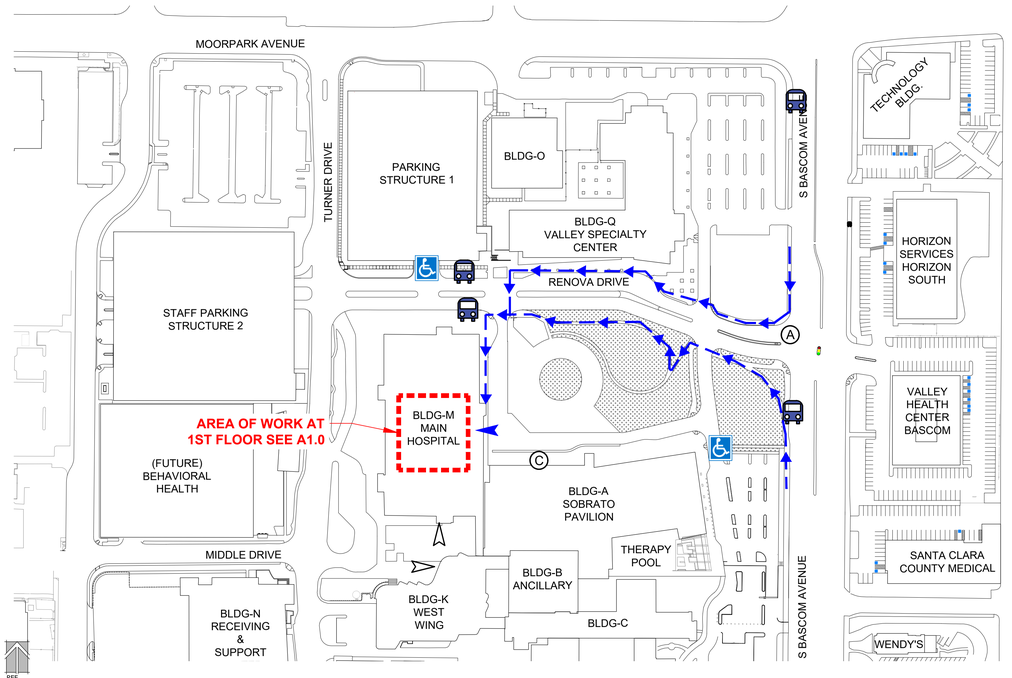
## PROJECT NARRATIVE

THE TYPE OF APPROVAL TO BE ISSUED BY HCAi FOR THIS PROJECT IS:

- [x] NON-STRUCTURAL ALTERATION
- [ ] INCIDENTAL STRUCTURAL ALTERATION
- [ ] INCIDENTAL STRUCTURAL ADDITION
- [ ] MINOR STRUCTURAL ALTERATION
- [ ] MINOR STRUCTURAL ADDITION
- [ ] MAJOR STRUCTURAL ALTERATION
- [ ] MAJOR STRUCTURAL ADDITION

## DEFERRED APPROVAL

1) SEISMIC BRACING OF EXISTING UTILITIES ABOVE CEILING AND PER NPC 4 REQUIREMENTS.




**MEDICAL CAMPUS PLAN**

**SCALE: NTS**

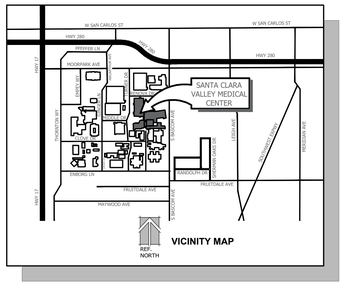
**NOTE - 1:**
ALL ACCESSIBLE REQUIREMENTS IN THE PRIMARY PATH OF TRAVEL FROM THE PRIMARY ENTRANCE TO THE SCOPE OF WORK AREA APPEAR TO SUBSTANTIALLY CONFORM TO THE APPLICABLE CALIFORNIA BUILDING STANDARD CODE.

**NOTE - 2:**
THE SCOPE OF WORK FOR THIS PROJECT IS LOCATED AT THE FIRST FLOOR OF THE MAIN HOSPITAL AT SANTA CLARA VALLEY MEDICAL CENTER.
ALL AREAS SHOWN ARE EXISTING.

**NOTE - 3:**
MECHANICAL ROOMS ARE EXEMPT FROM CH.11B ADA MANEUVERING CLEARANCE REQUIREMENTS.

EXISTING ACCESSIBLE CONDITIONS

- (A) ENTRANCE TO SITE
- COVERED PRIMARY ENTRANCE TO BUILDING
- SECONDARY ENTRANCE TO BUILDING
- (C) COVERED LOADING ZONE
- ENTRANCE TO PUBLIC PARKING WITH ACCESSIBLE PARKING
- PUBLIC TRANSPORTATION
- PATH OF TRAVEL FROM PUBLIC WAY




**VICINITY MAP**

## SCOPE OF WORK

1) INSTALL NEW MAMMOGRAPHY AND STEREOTACTIC BIOPSY EQUIPMENT IN THE EXISTING IMAGING ROOMS 1M076, 1M078, AND 1M130.
2) STRUCTURAL ANCHORAGE FOR NEW EQUIPMENT.
3) ROOMS 1M076 & 1M130 WILL BE COMPLETED IN PHASE 1, AND ROOM 1M076 WILL BE COMPLETED IN PHASE 2.

## PROJECT NOTES

1) FINAL LOCATION AND LAYOUT OF NEW MAMMOGRAM IMAGING AND BIOPSY MACHINES WILL BE DETERMINED BY EQUIPMENT VENDOR.
2) PHASING THE INSTALLATION OF THE NEW DIGITAL IMAGING EQUIPMENT IS REQUIRED TO ENSURE THERE IS A LEAST ONE OPERATIONAL IMAGING MACHINE SERVING THE MAIN HOSPITAL AT ALL TIMES.
3) PHASE 2 CANNOT BEGIN UNTIL APPROVAL AND AUTHORIZATION TO USE THE NEW EQUIPMENT INSTALLED UNDER PHASE ONE HAS BEEN GRANTED BY HCAi, AND THE EQUIPMENT HAS BEEN TESTED AN VALIDATED BY THE MANUFACTURER AND OTHER AUTHORITIES HAVING JURISDICTION.

## INDEX OF DRAWINGS


| DWG. NO. | DRAWING TITLE |
|---|---|
| | **ARCHITECTURAL** |
| T-1 | TITLE SHEET AND PROJECT NOTES |
| A0.0 | GENERAL NOTES & ABBREVIATIONS |
| A0.1 | ADA STANDARDS & MOUNTING HEIGHTS |
| A0.2 | ADA STANDARDS & MOUNTING HEIGHTS |
| A0.3 | ACCESSIBILITY SIGNAGE REQUIREMENTS |
| A1.0 | OVERALL FIRST FLOOR PLAN |
| A2.0 | DEMOLITION AND PROPOSED FLOOR PLANS |
| A5.0 | EQUIPMENT SPECIFICATIONS - FOR REFERENCE ONLY |
| A5.1 | EQUIPMENT SPECIFICATIONS - FOR REFERENCE ONLY |
| A5.2 | EQUIPMENT SPECIFICATIONS - FOR REFERENCE ONLY |
| A5.3 | EQUIPMENT SPECIFICATIONS - FOR REFERENCE ONLY |
| A6.0 | RADIATION PROTECTION SHIELDING DETAILS |
| A2.1 | PROPOSED FINISH PLAN AND SCHEDULE |
| | **STRUCTURAL** |
| S0.1 | GENERAL NOTES & DETAILS |
| S2.0 | PARTIAL FIRST FLOOR PLAN |
| S5.1 | DETAILS |
| | **MECHANICAL** |
| M0.1 | GENERAL NOTES AND SCHEDULES |
| M1.0 | OVERALL PLAN |
| M1.1 | PARTIAL HVAC PLAN |
| | **PLUMBING** |
| P1.1 | PARTIAL PLUMBING PLAN |

| DWG. NO. | DRAWING TITLE |
|---|---|
| | **ELECTRICAL** |
| E.01 | GENERAL NOTES, LEGEND, AND SHEET INDEX |
| E.02 | ELECTRICAL SPECIFICATIONS |
| E1.0 | OVERALL FIRST FLOOR PLAN |
| E3.1 | ENLARGED POWER PLAN |
| E5.1 | SINGLE LINE DIAGRAM AND SCHEDULES |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THE DRAWINGS AND SPECIFICATIONS AND IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED HEREBY ARE AND SHALL REMAIN THE PROPERTY OF THE ARCHITECT. AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS.

WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSION. CONTRACTORS SHALL VERIFY, AND BE RESPONSIBLE FOR, ALL DIMENSIONS AND CONDITIONS ON THE JOB. THESE DRAWINGS MUST BE NOTIFIED OF ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN BY THESE DRAWINGS. SHOP DETAILS MUST BE SUBMITTED TO THIS OFFICE FOR APPROVAL BEFORE PROCEEDING WITH FABRICATION.


ARCHITECT'S STAMP

LICENSED ARCHITECT JESSE L. GIVEN NO. C-30772 REN.05-31-2025 STATE OF CALIFORNIA

CONSULTANT'S STAMP

SANTA CLARA VALLEY MEDICAL CENTER Hospital & Clinics

REVISIONS

| NO. | DATE | DESCRIPTION |
|---|---|---|
| | 12.29.22 | 1ST SUBMITTAL |
| 1 | 04.21.23 | 2ND SUBMITTAL |
| | 05.17.23 | 3RD SUBMITTAL |

HCAi #: S222248-43-00

Job No: 22-0977
Scale: AS SHOWN
Drawn by: FP
Reviewed by: JV

Sheet Name:

TITLE SHEET AND PROJECT NOTES

DIGITAL IMAGING EQUIPMENT REPLACEMENT

Sheet No:

T-1

## ABBREVIATIONS

| | | | | | |
|---|---|---|---|---|---|
| @ | At | EXH. | Exhaust | N. | North |
| ℄ | Centerline | EXIST. | Existing | N.I.C. | Not in Contract |
| # | Pound or Number | EXPO. | Exposed | No. or # | Number |
| A/C | Air Conditioning | EXP. | Expansion | NOM. | Nominal |
| ACT. | Ceiling Tile | EXT. | Exterior | N.T.S. | Not to Scale |
| A.D. | Area Drain | F.A. | Fire Alarm | O. | Oxygen |
| ADJ. | Adjustable | FAB. | Fabrication | O.C. | On Center |
| AFF. | Above Finish Floor | F.D. | Floor Drain | O.D. | Outside Diameter (Dim) |
| AFC. | Above Finish Ceiling | FDN. | Foundation | OFF. | Office |
| AL. | Aluminum | F.E. | Fire Extinguisher | OH. | Overhead |
| AN. | Anodized | F.F. | Finish Floor | OPNG. | Opening |
| APPROX. | Approximate | FIN. | Finish | OPP. | Opposite |
| ASPH. | Asphalt | FL. | Floor | PAR. | Parallel |
| ASMEP | Architectural, Structural, Mechanical, Electrical, Plumbing | FLG. | Flange | PB. | Panic Bar |
| | | FLR. | Floor | PRCST. | Pre-cast |
| BD. | Board | FLASH. | Flashing | PL. | Plate |
| BLDG. | Building | FLUOR. | Fluorescent | P.LAM. | Plastic Laminate |
| BLK. | Block | F.N. | Field Nail | PLAS. | Plaster |
| BLKG. | Blocking | F.O.C. | Face of Concrete | PLYWD. | Plywood |
| BM. | Beam | F.O.F. | Face of Finish | PR. | Pair |
| B.O.M. | Bottom of Mullion | F.O.M. | Face of Masonry | P.S.I. | Pounds per Square Inch |
| BOT. | Bottom | F.O.P. | Face of Plywood | PT. | Point |
| CAB. | Cabinet | F.O.S. | Face of Studs | R. | Riser |
| CER. | Ceramic | FP. | Flat Point | RAD. | Radius |
| C.I. | Cast Iron | F.P. | Fireproof | R.D. | Roof Drain |
| CLG. | Ceiling | FRM'G | Framing | REF. | Reference |
| CLKG. | Caulking | F.S. | Fire Sprinkler | REFR. | Refrigerator |
| CLO. | Closet | FT. | Foot or Feet | RGTR. | Register |
| CLR. | Clear | FTG. | Footing | REINF. | Reinforced |
| CMU | Concrete Masonry Unit | FV. | Field Verify | REQ. | Required |
| CNTR. | Counter | GA. | Gauge | RESIL. | Resilient |
| COL. | Column | GALV. | Galvanized | RFG. | Roofing |
| CONC. | Concrete | GEN. | General | RH. | Right Hand |
| CONN. | Connection | GL. | Glass | RM. | Room |
| CONSTR. | Construction | GND. | Ground | R.O. | Rough Opening |
| CONT. | Continuous | GRD. | Grade | S.C. | Solid Core |
| CONTR. | Contractor | GYP. BD. | Gypsum Board | SCHED. | Schedule |
| CORR. | Corridor | H.C. | Hollow Core | SCN. | Screen |
| CPT. | Carpet | HDR. | Header | SECT. | Section |
| CTR. | Center | HDWD. | Hardwood | SF. | Square Feet |
| CTSK | Countersink | HDW. | Hardware | SG. | Semi Gloss |
| C.Y. | Cubic Yard | HGR. | Hanger | SH. | Shelf |
| D.B.A. | Deformed Bar Anchor | HT. | Height | SHR. | Shower |
| DBL. | Double | H.M. | Hollow Metal | SHT. | Sheet |
| DEMO. | Demolition | HORIZ. | Horizontal | SHTH. | Sheathing |
| DEPT. | Department | HR. | Hour | SIM. | Similar |
| D.F. | Drinking Fountain | H.S.S. | Hollow Structural Section | SP. | Starting Point |
| DH. | Double Hung | HVAC. | Heating/Ventilating/Air Conditioning | SPEC. | Specifications |
| DIAG. | Diagonal | | | SQ. | Square |
| DIAPH. | Diaphragm | I.D. | Inside Diameter (Dia) | S.S. | Stainless Steel |
| DIM. | Dimension | I.E. | Invert Elevation | S.SK. | Service Sink |
| DISP. | Dispenser | I.F. | Inside Face | STD. | Standard |
| DKG | Decking | I.J. | Isolation Joint | STL. | Steel |
| DL | Dead Load | INSUL. | Insulation | STOR. | Storage |
| DN. | Down | INT. | Interior | STRL. | Structural |
| D.O. | Door Opening | JAN. | Janitor | SUSP. | Suspended |
| DR. | Door | JST. | Joist | SV. | Sheet Vinyl |
| DS. | Downspout | JT. | Joint | SYM. | Symmetrical |
| D.S.P. | Dry Standpipe | K.S.I. | Kips per sq. in. | TEL. | Telephone |
| DTL | Detail | K.O. | Knock out | TEMP. | Tempered |
| DWG. | Drawing | LAM. | Laminate | THK. | Thick |
| DWL(S) | Dowel(s) | LAT. | Lateral | THR. | Threshold |
| DWR. | Drawer | LAV. | Lavatory | T.O.PAV. | Top of Pavement |
| (E) | Existing | LB. | Lag Bolt | TV. | Television |
| E. | East | LBS, # | Pounds | T.O.W. | Top of Wall |
| EA. | Each | LH. | Left Hand | TYP. | Typical |
| E.J. | Expansion Joint | LIN. | Linen | UNF. | Unfinished |
| EL. | Evaluation | L.L. | Live Load | U.O.N. | Unless Otherwise Noted |
| ELEC. | Electrical | LKR. | Locker | UPS | Uninterruptible Power Supply |
| ELEV. | Elevator | LONGT. | Longitudinal | V.I.F. | Verify In Field |
| EMB. | Embed | LWC. | Lightweight Concrete | VAC. | Vacuum |
| EMER. | Emergency | LVR. | Louver | V.B. | Vinyl Base |
| E.N. | Edge Nail | MAX. | Maximum | VERT. | Vertical |
| ENCL. | Enclosure | M.C. | Medicine Cabinet | VIN. | Vinyl |
| ENGR | Engineer | MECH. | Mechanical | V.T. | Vinyl Tile |
| E.P.B. | Electrical Panel Board | MTL. | Metal | W/ | With |
| EQ. | Equal | MFR. | Manufacturer | W.C. | Water Closet |
| EQUIP. | Equipment | MIN. | Minimum | WD. | Wood |
| EA.S. | Each Side | MIR. | Mirror | W/O | Without |
| EA.W. | Each Way | MISC. | Miscellaneous | W/H | Hot Water Heater |
| EST. | Estimate | MTD. | Mounted | WH. | Wall Hung |
| E-W | East-West | MUL. | Mullion | WP. | Waterproofing |
| E.W.C. | Electric Water Cooler | (N) | New | WTW. | Wall to Wall |

## RESPONSIBLE PARTY FOR EQUIPMENT INSTALLATION

| | | | |
|---|---|---|---|
| **CFCI** | CONTRACTOR FURNISHED CONTRACTOR INSTALLED | **OFVI** | OWNER FURNISHED VENDOR INSTALLED |
| **CFOI** | CONTRACTOR FURNISHED OWNER INSTALLED | **VFCI** | VENDOR FURNISHED CONTRACTOR INSTALLED |
| **OFCI** | OWNER FURNISHED CONTRACTOR INSTALLED | **VFVI** | VENDOR FURNISHED VENDOR INSTALLED |
| **OFOI** | OWNER FURNISHED OWNER INSTALLED | **S** | STRUCTURAL |
| **M** | MECHANICAL | **E** | ELECTRICAL |
| **P** | PLUMBING | **A** | ARCHITECTURAL |

## SPECIFICATION

### DIVISION 1 - GENERAL REQUIREMENTS

**GENERAL CONDITIONS**

INSTRUCTIONS TO BIDDERS, FORM OF PROPOSAL, AND BONDING REQUIREMENTS PROVIDED BY THE OWNER UNDER SEPARATE COVER.

**SPECIAL CONDITIONS**

1. INTENT OF THE PLANS AND SPECIFICATIONS: THE INTENT OF THE PLANS AND SPECIFICATIONS IS TO DESCRIBE THE DETAILS FOR THE CONSTRUCTION AND COMPLETION OF THE WORK WHICH THE CONTRACTOR UNDERTAKES TO PERFORM IN ACCORDANCE WITH THE TERMS OF THE CONTRACT. UNLESS OTHERWISE SPECIFIED, THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, AND INCIDENTALS, AND DO ALL THE WORK AND TEMPORARY CONSTRUCTION INVOLVED IN EXECUTING THE CONTRACT IN A SATISFACTORY AND WORKMANLIKE MANNER AS INDICATED ON THE DRAWINGS AND / OR SPECIFICATIONS.

2. ANY DISCREPANCIES IN THE DRAWINGS OR SPECIFICATIONS SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION IMMEDIATELY, BEFORE PROCEEDING WITH WORK. IF A CONFLICT IS FOUND IN THE DRAWINGS OR IN THE SPECIFICATIONS, OR BETWEEN THE DRAWINGS AND SPECIFICATIONS, BIDDERS SHALL REQUEST AN INTERPRETATION FROM THE ARCHITECT. IF ANY CONFLICTS OR DISCREPANCIES ARE NOT COVERED BY WRITTEN ADDENDA, BIDDERS SHALL INCLUDE IN THE BID, THE MATERIALS AND METHODS OF CONSTRUCTION WHICH RESULT IN THE HIGHER COST.

3. PLANS AND SPECIFICATIONS ARE COMPLEMENTARY, AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY ALL. THE ORGANIZATIONS OF THE SPECIFICATIONS AND THE ARRANGEMENT OF THE DRAWINGS OR PLANS SHALL NOT CONTROL THE CONTRACTOR IN DIVIDING THE WORK AMONG SUBCONTRACTORS OR IN ESTABLISHING THE EXTENT OF WORK TO BE PERFORMED BY ANY TRADE. THE TERMS AND CONDITIONS OF SUCH LIMITATIONS ARE WHOLLY BETWEEN THE CONTRACTOR AND HIS / HER SUBCONTRACTOR. THE CONTRACTOR SHALL REQUIRE SUCH COOPERATION OF THE VARIOUS TRADES AS WILL BE NECESSARY TO COMPLETE EACH AND EVERY PART OF THE WORK EVEN THOUGH NOT SPECIFICALLY INDICATED, NOTED, OR DETAILED ON THE DRAWINGS OR SPECIFIED.

4. CHANGES TO APPROVED PLANS AND SPECIFICATIONS SHALL BE MADE ONLY IN WRITING WHICH MUST BE APPROVED BY THE ARCHITECT. THE GENERAL CONTRACTOR AND HIS / HER SUBCONTRACTORS MUST SUBMIT IN WRITING ANY REQUESTS FOR MODIFICATIONS TO THE PLANS AND SPECIFICATIONS. CHANGES THAT MATERIALLY ALTER THE WORK SHALL BE SUBMITTED TO HCAI FOR REVIEW AND APPROVAL AS AMENDED CONSTRUCTION DOCUMENTS PRIOR TO PROCEEDING WITH RELATED CONSTRUCTION (CAC 2019 SECTION 7-153a )

5. APPLICABLE BUILDING CODE: ALL CONSTRUCTION, MATERIALS, AND WORKMANSHIP SHALL COMPLY WITH ALL PROVISIONS OF THE UNIFORM BUILDING CODE AND WITH OTHER RULES, REGULATIONS, AND ORDINANCES DRAWINGS AND SPECIFICATIONS AND IT SHALL BE THE RESPONSIBILITY OF ANY ONE SUPPLYING LABOR OR MATERIALS OR BOTH TO BRING TO THE ATTENTION OF THE ARCHITECT ANY DISCREPANCIES OR CONFLICT BETWEEN THE REQUIREMENTS OF THE CODE AND DRAWINGS OR SPECIFICATIONS.

6. PERMITS, FEES, AND LICENSES: THE OWNER SHALL SECURE AND PAY FOR GENERAL BUILDING PERMIT, SPECIAL PERMITS, WATER, SEWER, AND ELECTRICAL CONNECTION FEES, LICENSES, AND INSPECTIONS NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK. CITY BUSINESS LICENSES SHALL BE REQUIRED FOR ALL TRADES TO BE EMPLOYED.

8. PROGRESS SCHEDULES: THE CONTRACTOR SHALL AFTER AWARD OF THE CONTRACT AND WITHIN 10 CALENDAR DAYS, FURNISH TO THE OWNER AND ARCHITECT A SCHEDULE OF EXPECTED PROGRESS OF THE WORK UNDER THE CONTRACT. THE SCHEDULE SHALL NOT EXCEED TIME LIMITS ALLOTTED IN THE CONTRACT DOCUMENTS, SHALL BE REVISED AT APPROPRIATE INTERVALS AS REQUIRED BY CONDITIONS OF THE WORK, SHALL BE RELATED TO THE ENTIRE PROJECT TO THE EXTENT REQUIRED BY THE CONTRACT DOCUMENTS, AND SHALL PROVIDE FOR EXPEDITIOUS AND PRACTICABLE EXECUTION OF THE WORK.

9. TEMPORARY SERVICES: THE CONTRACTOR SHALL ARRANGE AND PAY FOR ALL SERVICES AND UTILITIES REQUIRED, AND ALL DEPOSITS THEREFORE, DURING THE CONSTRUCTION PERIOD, INCLUDING BUT NOT LIMITED TO: TEMPORARY TOILETS; TELEPHONE SERVICE; OFFICE AND STORAGE AREAS; WATER FOR ALL PURPOSES OF CONSTRUCTION; TEMPORARY ELECTRICAL FACILITIES.

10. SIGNS: NO SIGNS OR ADVERTISEMENTS WILL BE ALLOWED TO BE DISPLAYED WITHOUT THE APPROVAL OF THE OWNER.

11. SAFETY: THE CONTRACTOR SHALL PROVIDE, INSTALL, AND MAINTAIN FOR THE DURATION OF THE WORK, AS REQUIRED, ALL LAWFUL OR NECESSARY BARRICADES, DUST PARTITIONS, TEMPORARY LIGHTS, WARNING SIGNS AND SIGNALS. THE CONTRACTOR SHALL TAKE ALL OTHER PRECAUTIONS AS MAY BE REQUIRED TO SAFEGUARD PERSONS, THE SITE AND ADJOINING AREAS, INCLUDING IMPROVEMENTS THEREON, AGAINST INJURIES AND DAMAGE OF ANY NATURE WHATSOEVER. CONTRACTOR SHALL ERECT AND MAINTAIN ANY REQUIRED CONSTRUCTION CHAIN LINK FENCING AROUND THE CONSTRUCTION AREA TO PROTECT THE EXISTING ENVIRONMENT. CONTRACTOR IS ALSO RESPONSIBLE FOR SECURITY OF THE CONSTRUCTION SITE. CONTRACTOR SHALL PROVIDE FOR EARTHQUAKE SAFETY AND SHALL COMPLY WITH LOCAL ORDINANCES INCLUDING, BUT NOT LIMITED TO BRACING, NAILING, AND ELECTRICAL AND PLUMBING FIXTURE ANCHORAGE. CONTRACTOR SHALL PROVIDE ALL TEMPORARY FIELD BRACING TO SECURE STRUCTURE UNTIL COMPLETION OF BUILDING. ALL CONTRACTORS AND SUBCONTRACTORS SHALL READ OWNER'S POLICIES FOR CONSTRUCTION

12. REVISIONS: THE GENERAL CONTRACTOR SHALL INSTALL ALL PIPING AND EQUIPMENT IN A MANNER AND IN LOCATIONS AVOIDING ALL OBSTRUCTIONS, PRESERVING HEADROOM AND KEEPING OPENINGS AND PASSAGEWAYS CLEAR. HE / SHE SHALL MAKE CHANGES, WITH THE ACCEPTANCE OF THE ARCHITECT, IN LOCATIONS OF EQUIPMENT AND MATERIALS, WHICH MAY BE NECESSARY IN ORDER TO ACCOMPLISH THESE ENDS, WITHOUT ADDITIONAL COST TO THE OWNER. A CONTRACTOR AND / OR SUBCONTRACTOR OBTAINING OWNER'S ACCEPTANCE OF DEVIATIONS, VARIATIONS, OR CHANGES IN THE CONTRACT DOCUMENTS FOR THE WORK OF ONE TRADE SHALL BE RESPONSIBLE FOR AND ASSUME PAYMENT OF ALL CHANGES INCURRED DUE TO ALTERATIONS IN THE WORK OF OTHER TRADES AS A CONSEQUENCE OF THE CHANGES.

SEE NOTE# 4 (THIS SECTION) REGARDING CHANGES TO APPROVED DOCUMENTS

13. SHOP DRAWING SUBMITTALS: THE CONTRACTOR SHALL PREPARE AND SUBMIT SIX SETS OF SHOP DRAWINGS, PRODUCT DATA, SAMPLES AND SIMILAR SUBMITTALS TO THE ARCHITECT. NO PORTION OF THE DRAWINGS OR SPECIFICATIONS MAY BE REPRODUCED AND INCLUDED AS PART OF THE SHOP DRAWING SUBMITTAL.

14. SUBSTITUTION REQUESTS: CONTRACTOR SHALL SUBMIT WRITTEN REQUESTS FOR SUBSTITUTION OF "OR EQUAL" MATERIALS TO THE ARCHITECT AND SHALL RECEIVE APPROVAL PRIOR TO INSTALLATION OR PURCHASE.

15. ALL DAMAGED WORK OR MATERIALS SHALL BE REPAIRED OR REPLACED AS DIRECTED AND SAID WORK SHALL BE EQUAL IN EVERY RESPECT TO THE ORIGINAL OR SURROUNDING WORK. THIS INCLUDES ANY SURFACES OR PARTS OF THE BUILDING PREVIOUSLY INSTALLED WHICH MAY BE DAMAGED DURING CONSTRUCTION OPERATIONS.WHENEVER DEFECTIVE WORK IS TO BE REPLACED OR REDONE UNDER THE TERMS OF THE GUARANTEES AND WARRANTIES CONTAINED IN THESE SPECIFICATIONS, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO SEE THAT ALL REQUIRED REMOVAL WORK, PATCHING, REPAIRING, REFINISHING, AND REINSTALLATION, INCLUDING REPAIRING ALL DAMAGE RESULTING FROM FAILURE OF SAID ITEMS (WHETHER DAMAGED MATERIALS WERE INSTALLED UNDER CONTRACT) AT NO COST TO THE OWNER.

16. RECORD DOCUMENTS: THE CONTRACTOR SHALL KEEP ONE COMPLETE SET OF DRAWINGS, INCLUDING ALL ADDENDA, CHANGE ORDERS, FIELD ORDERS, AND RECORDS OF CHANGES, AT THE JOB SITE, AVAILABLE TO THE ARCHITECT AND ALL OTHERS CONCERNED. NO PARTS OF THIS SET SHALL EVER BE REMOVED FOR ANY REASON WHATSOEVER.THE CONTRACTOR SHALL, DURING THE PROGRESS OF THE WORK, KEEP AN ACCURATE RECORD OF ALL CHANGES AND CORRECTIONS FROM THE LAYOUTS SHOWN ON THE DRAWINGS.

17. CLEANUP: THE SITE AND ALL STRUCTURES SHALL BE LEFT CLEAN OF ALL FOREIGN MATERIAL AND REFUSE ALL HARD SURFACE FLOORS SHALL BE POLISHED, WINDOWS AND MIRRORS CLEAN. ALL COUNTER TOPS, ELECTRICAL FIXTURES AND PLUMBING FIXTURES SHALL BE CLEAN AND DUST FREE. ALL CABINETS, SHELVES, DOORS, AND WALLS SHALL BE CLEANED TO A "MOVE-IN" CONDITION ACCEPTABLE TO THE ARCHITECT.

**SECTION 01300 - ADMINISTRATIVE REQUIREMENTS**

**PART 1 - GENERAL**

1. SECTION INCLUDES:
   a. PRECONSTRUCTION MEETING.
   b. SITE MOBILIZATION MEETING.
   c. PROGRESS MEETINGS.
   d. CONSTRUCTION PROGRESS SCHEDULE.
   e. PROGRESS PHOTOGRAPHS
   f. COORDINATION DRAWINGS.
   g. SUBMITTALS FOR REVIEW, INFORMATION, AND PROJECT CLOSEOUT.
   h. NUMBER OF COPIES OF SUBMITTALS.
   i. SUBMITTAL PROCEDURES.

2. RELATED SECTION: DOCUMENT 00700 - GENERAL CONDITIONS.

3. PROJECT COORDINATION:

   a. COOPERATE WITH PROJECT COORDINATOR IN ALLOCATION OF MOBILIZATION AREAS OF SITE FOR FIELD OFFICES AND SHEDS, FOR ACCESS, TRAFFIC, AND PARKING FACILITIES.
   b. DURING CONSTRUCTION, COORDINATE USE OF SITE AND FACILITIES THROUGH THE PROJECT COORDINATOR.
   c. PROJECT COMMUNICATION.
   d. COMPLY WITH THE INSTRUCTIONS OF THE PROJECT COORDINATOR AND CONSTRUCTION FACILITIES.
   e. COORDINATE FIELD ENGINEERING AND LAYOUT WORK UNDER INSTRUCTIONS OF THE PROJECT COORDINATOR.
   f. MAKE THE FOLLOWING TYPES OF SUBMITTALS TO THE ARCHITECT THROUGH THE PROJECT COORDINATOR:

1. REQUEST FOR INTERPRETATION.
2. REQUESTS FOR SUBSTITUTION.
3. SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.
4. TEST AND INSPECTION REPORTS.
5. DESIGN DATA.
6. MANUFACTURER'S INSTRUCTIONS AND FIELD REPORTS.
7. APPLICATIONS FOR PAYMENT AND CHANGE ORDER REQUESTS.
8. PROGRESS SCHEDULES.
9. COORDINATION DRAWINGS.
10. CLOSEOUT SUBMITTALS.

**PART 2 - PRODUCTS**

NOT USED.

6. SUBMITTALS FOR REVIEW
   a. WHEN THE FOLLOWING ARE SPECIFIED IN INDIVIDUAL SECTIONS,
      1. SUBMIT THEM FOR REVIEW.
      2. PRODUCT DATA.
      3. SAMPLES FOR SELECTION.
      4. SAMPLES FOR VERIFICATION.
   b. SUBMIT TO ARCHITECT FOR REVIEW FOR THE LIMITED PURPOSE OF CHECKING FOR CONFORMANCE WITH INFORMATION GIVEN AND THE DESIGN CONCEPT EXPRESSED IN THE CONTRACT DOCUMENTS.

7. SUBMITTALS FOR INFORMATION
   1. DESIGN DATA.
   2. CERTIFICATES.
   3. TEST REPORTS.
   4. INSPECTION REPORTS
   5. OTHER TYPES INDICATED

8. SUBMITTALS FOR PROJECT CLOSEOUT
   a. WHEN THE FOLLOWING ARE SPECIFIED IN INDIVIDUAL SECTIONS, SUBMIT THEM AT PROJECT CLOSEOUT.
      1. PROJECT RECORD DOCUMENTS.
      2. OPERATION AND MAINTENANCE DATA.
      3. WARRANTIES.
      4. BONDS.
      5. OTHER TYPES INDICATED.
   b. SUBMIT FOR THE OWNER'S BENEFIT DURING AND AFTER PROJECT COMPLETION.

**SECTION 01740 - WARRANTIES AND BONDS**

1. THE CONTRACTOR SHALL PROVIDE THE FOLLOWING GUARANTEE: "THE CONTRACTOR SHALL AND HEREBY DOES WARRANT AND GUARANTEE THAT ALL WORK EXECUTED UNDER THIS CONTRACT WILL BE FREE FROM DEFECTS OF MATERIALS AND WORKMANSHIP FOR A PERIOD OF (1) YEAR FROM DATE OF FINAL ACCEPTANCE OF THE PROJECT; EXCEPT THAT CERTAIN SPECIFIC ITEMS OF WORK MAY REQUIRE A GUARANTEE OF WARRANTY FOR A GREATER PERIOD OF TIME WHERE HEREINAFTER SPECIFIED; THE CONTRACTOR FURTHER AGREES TO REPAIR OR REPLACE, AT HIS / HER OWN EXPENSE, ALL SUCH DEFECTIVE WORK, AND ALL OTHER WORK DAMAGED THEREBY, WHICH BECOMES DEFECTIVE DURING THE TERM OF THE ABOVE MENTIONED GUARANTEES OR WARRANTIES."

2. IN NO CASE DOES THE ARCHITECT WARRANTY THE PERFORMANCE OR QUALITY OF ANY MATERIAL OR PROCESS INDICATED OR SPECIFIED BY PATENT, PROPRIETARY NAME, NAME OF MANUFACTURER, OR TRADE NAME. SUCH SPECIFICATION SHALL BE USED ONLY FOR THE PURPOSE OF FACILITATING A STANDARD DESCRIPTION OF THE MATERIAL OR PROCESS REQUIRED TO MEET THE INTENT OF THE CONTRACT DOCUMENTS.

3. THE CONTRACTOR SHALL SAVE THE OWNER AND ARCHITECT HARMLESS FROM ANY AND ALL CLAIMS WHICH MAY BE ON ACCOUNT OF ANY ILLEGAL INFRINGEMENT OF ANY PATENT OR PATENTS OF PROCESSES, METHODS, AND APPLIANCES USED IN CONSTRUCTION OF THE WORK THAT ARE NOT SPECIFICALLY REQUIRED BY THE SPECIFICATIONS, AND SHALL DEFEND ANY ACTION PROSECUTED AGAINST THE OWNER AND ARCHITECT ARISING OUT OF SUCH CLAIMS AND SHALL PAY ALL COSTS INVOLVED. THE OWNER SHALL SIMILARLY SAVE THE CONTRACTOR HARMLESS FROM CLAIMS MADE ON ACCOUNT OF ALLEGED INFRINGEMENT OF THE PATENTED ARTICLES OR PROCESSES WHICH ACTUALLY ARE REQUIRED BY THE PLANS OR SPECIFICATIONS.

### DIVISION 2 - SITE WORK

**SECTION 02050 - DEMOLITION**

a. DEMOLISH ALL ITEMS INDICATED ON THE DRAWINGS TO BE REMOVED. CONTRACTOR SHALL REMOVE FROM SITE ALL DEBRIS, RUBBISH, AND OTHER MATERIALS RESULTING FROM DEMOLITION OPERATIONS.
b. DEMOLITION OF ITEMS TO BE REMOVED OR RELOCATED SHALL BE DONE IN A SAFE, ORDERLY MANNER WITHOUT DAMAGE TO OTHER PARTS OF THE PREMISES OR ADJACENT PROPERTIES. ANY RESULTING DAMAGE OR LOSS SHALL BE CORRECTED OR REPLACED BY CONTRACTOR.
c. SEE DRAWINGS FOR ADDITIONAL NOTES.

**DIVISION 3 - CONCRETE - - - - - - - - - NOT USED**
**DIVISION 4 - MASONRY - - - - - - - - - - NOT USED**
**DIVISION 5 - METALS - - - - - - - - - - NOT USED**
**DIVISION 6 - WOOD & PLASTICS - - - - - - - - NOT USED**
**DIVISION 7 - THERMAL AND MOISTURE PROTECTION - NOT USED**
**DIVISION 8 - DOORS & WINDOWS - - - - - - - - NOT USED**
**DIVISION 9 - FINISHES - - - - - - - - - - NOT USED**
**DIVISION 10 - SPECIALTIES - - - - - - - - - NOT USED**
**DIVISION 11 - EQUIPMENT - - - - - - - - - NOT USED**
**DIVISION 12 - FURNISHINGS - - - - - - - - - NOT USED**
**DIVISION 13 - SPECIAL CONSTRUCTION - - - - - - - NOT USED**
**DIVISION 14 - CONVEYING SYSTEMS - - - - - - - NOT USED**
**DIVISION 15 - MECHANICAL - - - - - - - - - NOT USED**
**DIVISION 16 - ELECTRICAL - - - - - - - - - NOT USED**

### DEMOLITION GENERAL NOTES

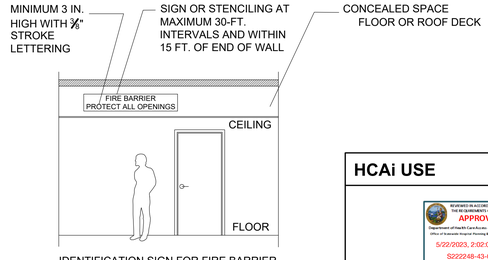
1. PRIOR TO BIDDING THE CONTRACTOR AND THEIR SUB-CONTRACTORS SHALL INSPECT ALL AREAS IN WHICH THE WORK IS TO BE PERFORMED AND FIELD VERIFY ALL EXISTING CONDITIONS. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
2. REMOVE ALL EXISTING FINISHES AND PREPARE ALL EXISTING SURFACES AS REQUIRED TO INSTALL THE NEW FINISHES SCHEDULED ON NEW FLOOR PLAN. REMOVE ALL EXISTING CEILING AND ALL ITEMS CONTAINED THEREIN IN THOSE AREAS SCHEDULED TO RECEIVE NEW CEILING PATCHING .
3. REMOVE ALL ITEMS / FIXTURES (I.E. HANDRAILS, CORNER GUARDS, HARDWARE, COVERPLATES, SIGNAGE, THERMOSTATS, MIRRORS, FIRE EXTINGUISHERS, LIGHT FIXTURES, EXIT LIGHTS, NURSE CALL LIGHTS, TOILET ACCESSORIES, ETC.) ON FLOORS, WALLS, AND CEILINGS AS REQUIRED TO INSTALL THE NEW FINISHES. CLEAN AND REINSTALL THESE ITEMS UNLESS NOTED OTHERWISE.
4. ALL EXISTING BUILDING UTILITIES SHALL REMAIN IN OPERATION DURING CONSTRUCTION. ANY TEMPORARY SUSPENSION OF SERVICES SHALL BE COORDINATED AND APPROVED BY THE OWNER'S REPRESENTATIVE, PER THE FACILITIES POLICY.
5. IN ORDER TO INSTALL SOME OF THE NEW WORK (STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL) IT WILL BE NECESSARY FOR THE CONTRACTOR AND HIS SUB-CONTRACTORS TO REMOVE AND REPLACE (OR REFINISH) EXISTING CEILINGS, WALLS OR FLOORS IN OTHER AREAS OF THE BUILDING NOT SHOWN ON THESE DOCUMENTS. THE CONTRACTOR SHALL INCLUDE ALL SUCH COSTS IN HIS BASE BID, WHETHER SHOWN ON THESE PLANS OR NOT.
6. SEE MECHANICAL (HVAC AND PLUMBING) AND ELECTRICAL DEMOLITION PLANS FOR THE EXTENT OF MECH / PLUMB / ELEC DEMOLITION REQUIRED.
7. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT OF ANY DISCREPANCIES OR CONFLICTS THAT MIGHT ARISE IN THE COURSE OF THE DEMOLITION WORK.
8. DO NOT CUT CONCRETE SLAB, COLUMNS, OR BEAMS WITHOUT APPROVAL AND DETAILS FROM ARCHITECT AND STRUCTURAL ENGINEER. SUBJECT TO HCAI APPROVAL.
9. PROVIDE ALL CORE DRILLING OF SLAB AND BEAMS AND CUTTING AND PATCHING OF EXISTING WALLS / CEILING AS REQUIRED FOR THE INSTALLATION OF NEW WORK. (NO CUTTING OR CORE DRILLING THROUGH SLAB SHALL BE DONE UNLESS SHOWN ON PLANS.)
10. CUTTING AND PATCHING: WHERE EXISTING WORK TO REMAIN IS CUT FOR REMOVAL OF OTHER EXISTING WORK OR FOR INSTALLATION OF NEW WORK, THE EXISTING WORK TO REMAIN SHALL BE PATCHED AS REQUIRED TO MATCH SCHEDULED FINISH OR WHERE UNSCHEDULED TO MATCH EXISTING FINISHES TO REMAIN. ALL PATCHING SHALL MEET OR EXCEED FIRE RATING INDICATED ON FLOOR PLAN AND AS REQUIRED BY THE FIRE / LIFE SAFETY INSPECTOR.
11. CONTRACTOR TO PROVIDE TEMPORARY CONSTRUCTION BARRIER AS NECESSARY FOR SEPARATION OF CONSTRUCTION AREAS AND ADJACENT OWNER OCCUPIED AREAS.SUBJECT TO THE REVIEW AND APPROVAL OF THE HCAI FIELD STAFF PRIOR TO STARTING THE WORK.
12. CONTRACTOR TO REMOVE ABANDONED ITEMS SUCH AS ABANDONED PIPING, CONDUIT, WIRING, DUCTWORK, ETC. PATCH AND REPAIR SURROUNDING SURFACES AS REQUIRED.
13. CONTRACTOR SHALL PROTECT EXISTING WALL, FLOOR, AND CEILING FINISHES, ITEMS AND FIXTURES NOT SCHEDULED FOR DEMOLITION. CONTRACTOR SHALL PATCH AND REPAIR DAMAGED FINISHES. ITEMS AND FIXTURES TO REMAIN AND / OR REPLACE IN KIND TO MATCH EXISTING.
14. WHERE EXISTING WORK TO BE REMOVED PENETRATES EXISTING PARTITIONS TO REMAIN THE PARTITION SHALL BE PATCHED TO MEET OR EXCEED FIRE RATINGS AS INDICATED ON FLOOR PLANS. FINISH TO MATCH EXISTING OR AS NOTED ON FINISH SCHEDULE.
15. COORDINATE WORK BELOW FLOOR OR ABOVE CEILING TO MINIMIZE DISRUPTIONS.
16. RESTORE CORRIDOR IN AREA OF WORK WHERE NEW FULL HEIGHT GWB IS INSTALLED .
17. DO NOT CUT ANY STRUCTURAL ELEMENTS (FLOOR, BEAMS, ETC.) WITHOUT APPROVAL FROM STRUCTURAL ENGINEER AND HCAI.
18. REVIEW OF THE PLACEMENT OF TEMPORARY BARRIERS IS A FUNCTION OF PLAN REVIEW AND MUST BE DETAILED IN THE PERMIT. IF IT IS NECESSARY TO CHANGE THE CONFIGURATION ONCE CONSTRUCTION HAS STARTED THE CONTRACTOR SHALL COORDINATE WITH THE HCAI FIELD STAFF.
19. CONTRACTOR TO IDENTIFY UTILITIES PASSING OVER WALLS FOR ARCHITECT TO ADDRESS COMPLIANT FIRE RATED PENETRATIONS.
20. CONTRACTOR TO USED EXTRA PRECAUTIONS REMOVING DEBRIS FROM SITE .ALL PROCEDURES FOR SUCH EFFORTS MUST BE APPROVED BY FACILITY INFECTION CONTROL PRIOR TO WORK .

### IDENTIFICATION SIGN FOR FIRE BARRIER

2019 CODE: 703.7 MAKING AND IDENTIFICATION. FIRE WALLS , FIRE BARRIERS, SMOKE PARTITIONS OR ANY OTHER WALL REQUIRED TO HAVE PROTECTED OPENINGS OR PENETRATIONS SHALL BE EFFECTIVELY AND PERMANENTLY IDENTIFIED WITH SIGNS OR STENCILING . SUCH IDENTIFICATION SHALL:

1. BE LOCATED IN ACCESSIBLE CONCEALED FLOOR . FLOOR/ CEILING , OR ATTIC SPACES.
2. BE LOCATED WITHIN 15 FEET (4572 MM) OF THE END OF EACH WALL AND REPEATED AT INTERVALS NOT EXCEEDING 30 FEET (9144 MM) MEASURED HORIZONTALLY ALONG THE WALL OR PARTITION.
3. INCLUDE LETTERING NOT LESS THEN 0.5 INCH (12.7MM) 3 INCHES (76 MM) IN HEIGHT WITH A MINIMUM ⅜ INCHES (9.5 MM) STROKE IN A CONTRASTING COLOR

   INCORPORATING THE SUGGESTED WORDING:
   "FIRE AND/OR SMOKE BARRIER-PROTECT ALL OPENINGS" OR OTHER WORDING"



IDENTIFICATION SIGN FOR FIRE BARRIER

### HCAi USE

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF TITLE 22R
APPROVED
Department of Health Care Access & Information
Office of Statewide Hospital Planning & Development
5/22/2023, 2:02:09 PM
S222248-43-00
Pedar Hemme

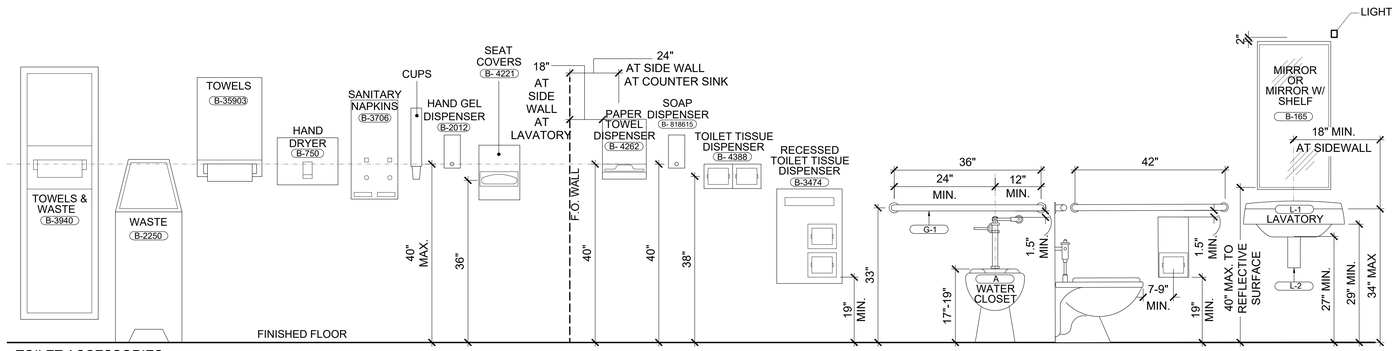

GDG architects
GIVEN DESIGN GROUP
1903 CLASSELL STE 200
ORANGE, CA 92866
TEL: 714.665.5957
FAX: 714.665.5924



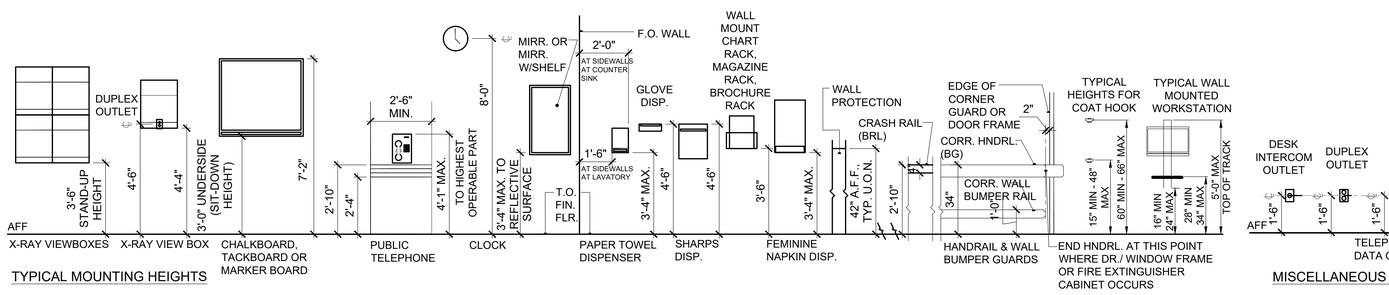
THE DRAWINGS AND SPECIFICATIONS AND IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED HEREBY ARE AND SHALL REMAIN THE PROPERTY OF THE ARCHITECT. AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS.

WRITTEN DIMENSIONS ON THESE

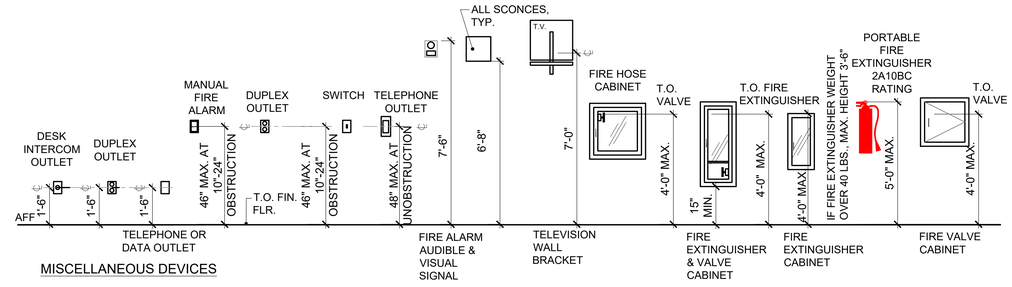
NOTE: WALL MOUNTED ITEMS THAT EXTEND 4" OR MORE FROM THE WALL MUST BE 80" AFF OR HAVE PERMANENT INSTALLATIONS BELOW TO PREVENT INJURY "




TOILET ACCESSORIES




TYPICAL MOUNTING HEIGHTS




MISCELLANEOUS DEVICES

## TYPICAL EQUIPMENT ELEVATION HEIGHTS

DIMENSIONS SHOWN TO FINISH SURFACE

2

**1. GRAB BARS**

- DIAMETER OF GRAB BAR(S) IS 1-1/4" - 2" OR SHAPE PROVIDES EQUIVALENT GRIPPING SURFACE. 11B-609.2
- CLEARANCE BETWEEN THE GRAB BAR(S) AND WALL IS 1- 1/2". 11B-609.3
- GRAB BARS ARE MOUNTED AT 33" TO CENTER OF BAR ABOVE AND PARALLEL TO FLOOR. (FOR TANK TYPE TOILETS, 36" MAY BE ALLOWED IF TANK OBSTRUCTS PLACEMENT OF BACK BAR). 1115B.8.1 4.17.6
- GRAB BARS SHALL BE FREE OF SHARP OR ABRASIVE ELEMENTS AND SHALL HAVE ROUNDED EDGES. 11B-609.5.
- MIN. STRUCTURAL STRENGTH OF GRAB BARS WILL SUPPORT A 250 LB. POINT LOAD. 11B-609.8.
- GRAB BARS DO NOT ROTATE WITHIN THEIR FITTINGS. 11B-609.6(5).
- SURFACE OF WALL ADJACENT TO GRAB BARS IS FREE OF SHARP OR ABRASIVE ELEMENTS. 11B-609.5.

**FRONT- TRANSFER TOILET STALLS**

- GRAB BARS ARE MOUNTED PARALLEL ON BOTH SIDES OF STALL. 11B-604.8.2.3.
- SIDE WALL GRAB BARS ARE A MIN. 42" LONG MINIMUM, LOCATED 12 INCHES MAX. FROM THE REAR WALL. 11B-604.5.1.
- THE FORWARD ENDS OF THE SIDE GRAB BARS ARE LOCATED A MIN. OF 54" FROM THE BACK WALL. 11B-604.5.1.

**LATERAL/ SIDE - TRANSFER TOILET STALLS**

- SIDE GRAB BAR IS A MIN. 42" LONG AND EXTENDS 24" BEYOND THE FRONT OF THE WATER CLOSET. 11B-604.5.1.

NOTE: IN BOTH SINGLE ACCOMMODATION TOILETS AND IN OPEN- TOILET FACILITIES (FACILITIES WITHOUT INDIVIDUAL STALLS),THE FRONT END OF THE SIDE GRAB BAR MUST EXTEND A MIN. OF 54" FROM THE BACK WALL. THESE DIAGRAMS ILLUSTRATE THE SPECIFIC REQUIREMENTS OF THESE REGULATIONS AND ARE INTENDED ONLY AS AN AID FOR BUILDING DESIGN AND CONSTRUCTION.

- SIDE GRAB BAR IS ATTACHED A MAX. OF 12" FROM THE REAR WALL. 11B-604.5.1.
- REAR GRAB BAR IS A MIN. 36" LONG. 11B-604.5.2.

WHEN A CLEAR FLOOR SPACE ALLOWS A PARALLEL APPROACH TO AN ELEMENT AND THE HIGH SIDE REACH IS OVER AN OBSTRUCTION, THE HEIGHT OF THE OBSTRUCTION SHALL BE 34 INCHES (864 MM) MAXIMUM AND THE DEPTH OF THE OBSTRUCTION SHALL BE 24 INCHES MAXIMUM. THE HIGH SIDE REACH SHALL BE 48 INCHES MAXIMUM FOR A REACH DEPTH OF 10 INCHES MAXIMUM. WHEN THE REACH DEPTH EXCEEDS 10 INCHES, BUT NO MORE THAN 24 INCHES, THE HIGH SIDE REACH SHALL BE 46 INCHES MAXIMUM. 1138A.3.2.

**2. 11B-603.2.3 DOOR CLEARANCE**

- DOORS SHALL NOT SWING INTO THE CLEAR FLOOR SPACE OR CLEARANCE REQUIRED FOR ANY FIXTURE. OTHER THAN THE DOOR TO THE ACCESSIBLE WATER CLOSET COMPARTMENT, A DOOR IN ANY POSITION, MAY ENCROACH INTO THE TURNING SPACE BY 12 INCHES MAXIMUM. EXCEPTIONS: (2) WHERE THE TOILET ROOM OR BATHING ROOM IS FOR INDIVIDUAL USE AND A CLEAR FLOOR SPACE COMPLYING WITH SECTION 11B-305.3 IS PROVIDED WITHIN THE ROOM BEYOND THE ARC OF THE DOOR SWING, DOORS SHALL BE PERMITTED TO SWING INTO THE CLEAR FLOOR SPACE OR CLEARANCE REQUIRED FOR ANY FIXTURE.

**3. 11B-604.8.1 WHEELCHAIR FACILITIES SHALL HAVE THE FOLLOWING:**

- WHEELCHAIR CLEARANCE
  THERE SHALL BE SUFFICIENT SPACE IN THE TOILET ROOM FOR A WHEELCHAIR MEASURING 30 INCHES WIDE BY 48 INCHES LONG TO ENTER THE ROOM AND PERMIT THE DOOR TO CLOSE. THERE SHALL BE IN THE ROOM A CLEAR TURNING SPACE OF AT LEAST 60 INCHES IN DIAMETER OR A T-SHAPED SPACE COMPLYING WITH SECTION 1138A.1.3. REQUIRED CLEAR FLOOR SPACE, CLEARANCE AT FIXTURES, AND TURNING SPACE SHALL BE PERMITTED TO OVERLAP.
- CLEAR SPACE
  CLEARANCE AROUND A WATER CLOSET SHALL BE 60 INCHES MINIMUM MEASURED PERPENDICULAR FROM THE SIDE WALL AND 56 INCHES MINIMUM MEASURED PERPENDICULAR FROM THE REAR WALL. A MINIMUM 48 INCHES DEEP AND 60 INCHES WIDE CLEAR MANEUVERING SPACE SHALL BE PROVIDED IN FRONT OF THE WATER CLOSET..

**4. COMPARTMENT DOOR**

- THE WATER CLOSET COMPARTMENT SHALL BE EQUIPPED WITH A DOOR THAT HAS AN AUTOMATIC-CLOSING DEVICE, AND SHALL HAVE A CLEAR, UNOBSTRUCTED OPENING WIDTH OF 32 INCHES WHEN LOCATED AT THE END AND 34 INCHES WHEN LOCATED AT THE SIDE WITH THE DOOR POSITIONED AT AN ANGLE OF 90 DEGREES FROM ITS CLOSED POSITION.

**5. TOILET ROOM FIXTURES AND ACCESSORIES**

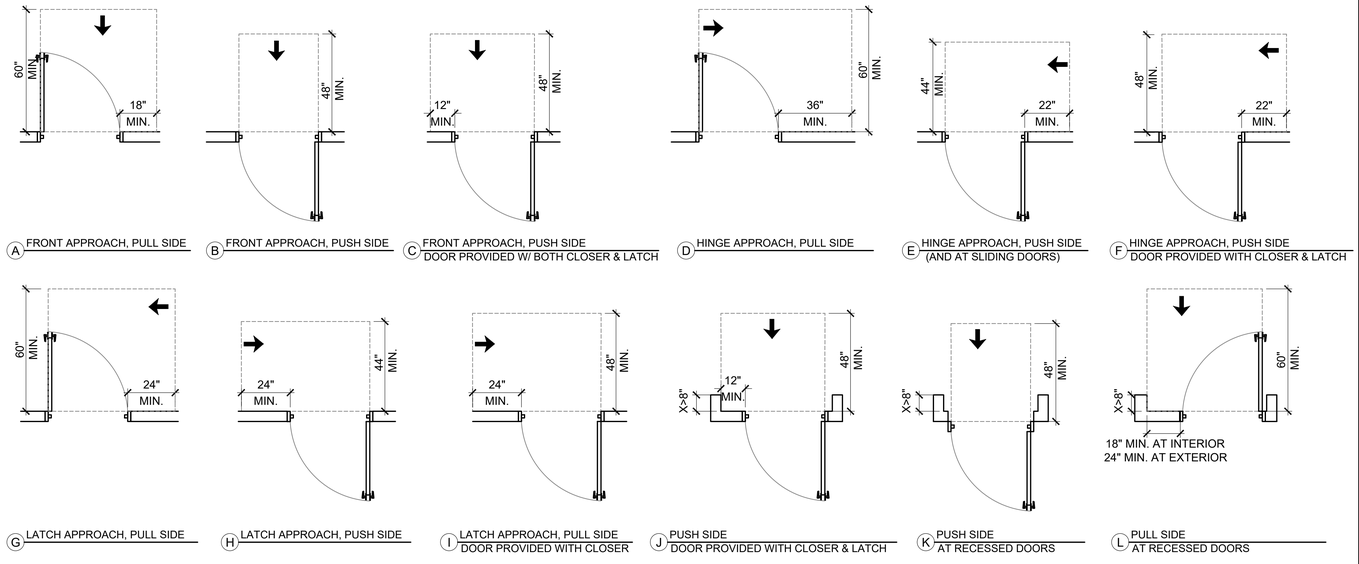
- MINIMUM 30" x 48" CLEAR FLOOR OR GROUND SPACE IS PROVIDED TO ALLOW FORWARD OR PARALLEL APPROACH TO ACCESSORIES. 11B-305.5.
- ONE FULL UNOBSTRUCTED SIDE OF THE CLEAR FLOOR OR GROUND SPACE ADJOINS OR OVERLAPS AN ACCESSIBLE ROUTE OR ADJOINS ANOTHER WHEELCHAIR CLEAR FLOOR SPACE. 11B-305.6.
- MIRROR IS MOUNTED WITH THE BOTTOM EDGE NO HIGHER THAN 40" FROM THE FLOOR. 11B-603.3.
- OPERABLE PARTS (INCLUDING COIN SLOTS) OF ALL FIXTURES OR ACCESSORIES ARE LOCATED A MAXIMUM OF 40" ABOVE FLOOR (I.E., SOAP DISPENSERS, TOWELS, TOILET SEAT COVERS, AUTO-DRYERS, SANITARY NAPKIN DISPENSERS, WASTE RECEPTACLES, ETC.). 11B-309.
- CONTROLS AND OPERATING MECHANISMS ARE OPERATE WITH ONE HAND AND DO NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS IS 5 LBS. MAXIMUM. 11B-309.4.
- COAT HOOKS AND SHELVING ARE LOCATED WITHIN APPROPRIATE REACH RANGES (48" MAX. ABOVE FLOOR RECOMMENDED). IF MEDICINE CABINETS ARE PROVIDED, AT LEAST ONE HAS A USABLE SHELF NO HIGHER THAN 44" ABOVE FLOOR. 11B-603.4.

**6. WATER CLOSET**

- HEIGHT OF WATER CLOSET SEAT SHALL BE 17" TO 19" ABOVE FLOOR. 11B-604.4
- FLUSH CONTROLS SHALL BE HAND OPERATED OR AUTOMATIC. HAND OPERATED FLUSH CONTROLS SHALL SHALL BE LOCATED 44 INCHES MAXIMUM ABOVE THE FLOOR. FLUSH CONTROLS SHALL BE LOCATED ON THE OPEN SIDE OF THE WATER CLOSET EXCEPT IN AMBULATORY ACCESSIBLE COMPARTMENTS. 11B-604.6
- TOILET PAPER DISPENSER ALLOWS CONTINUOUS PAPER FLOW AND DOES NOT CONTROL DELIVERY. 11B-604.7.1.

**7. LAVATORY FIXTURES. THE REQUIREMENTS SHALL APPLY TO LAVATORY FIXTURES, VANITIES AND BUILT-IN LAVATORIES.**

- MINIMUM 30" x 48" CLEAR SPACE IS PROVIDED IN FRONT OF SINK THAT ALLOWS FORWARD APPROACH. 11B-606.2.
- REQUIRED CLEAR SPACE ADJOINS OR OVERLAPS AN ACCESSIBLE ROUTE AND EXTENDS 19" MIN. UNDER LAVATORY. 11B-306.2.3.
- LAVATORIES ADJACENT TO SIDEWALL SHALL HAVE 18" MIN. DISTANCE TO CENTER OF FIXTURE 11B-606.6.
- SINK IS A MAXIMUM OF 6-1/2" DEEP.
- KNEE CLEARANCE UNDER SINK IS A MINIMUM OF 27" HIGH AND 30" WIDE, AND PROVIDES AN ABSOLUTE DEPTH OF 19" UNDERNEATH THE SINK. 11B-306.2.2 & 11B-306.3.3.
- DRAIN AND HOT WATER PIPING IS INSULATED OR CONFIGURED TO PREVENT CONTACT.
- THERE ARE NO SHARP OR ABRASIVE ELEMENTS UNDER SINK. 11B-606.5.
- FAUCETS ARE LEVER TYPE, ELECTRONICALLY ACTIVATED OR APPROVED SELF CLOSING VALVES (MIN.10 SECOND OPEN FLOW). 11B-606.4.
- FAUCETS ARE OPERABLE WITH ONE HAND AND DO NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST.
- 5 LB. MAXIMUM FORCE REQUIRED TO ACTIVATE CONTROLS.
- MIRROR IS MOUNTED WITH THE BOTTOM EDGE NO HIGHER THAN 40" FROM THE FLOOR.




## MANEUVERING CLEARANCES AT DOORS AND GATES

DIMENSIONS SHOWN TO FINISH SURFACE

1

**ACCESSORY MOUNTING HEIGHTS**

- A — WATER CLOSET: DIMENSION TO TOP OF SEAT
- B- 165 — MIRROR: DIMENSION TO BOTTOM EDGE OF REFLECTIVE SURFACE, CENTER OVER LAVATORY
- B- 4221 — TOILET SEAT DISPENSER: DIMENSION TO CENTER OF OPENING PER 11B-609.3, THE SPACE BETWEEN THE WALL/RECESSED OBJECTS AND THE GRAB BAR SHALL BE 1 1/2 INCHES.
- B- 4262 — PAPER TOWEL DISPENSER: DIMENSION TO CENTER OF OPENING
- B- 4353 — RECESSED TOILET TISSUE DISPENSER, TOILET SEAT COVER DISPENSER/ SANITARY NAPKIN DISPOSAL: DIMENSION TO TOP OF OPENING (SURFACE OR PARTITION MOUNTED-VERIFY W/ MANUFACTURER)
- B- 4388 — TOILET TISSUE DISPENSER/SANITARY NAPKIN DISPOSAL: DIMENSION TO CENTER OF LOWEST ROLL
- B- 6806 — WALL GRAB BAR: DIMENSION TO CENTER OF TUBE
- B- 818615 — SOAP DISPENSER: DIMENSION TO CENTER OF DISPENSER
- L-1 — LAVATORY: 2'-5" HIGH, 2'-6" WIDE AND 8" DEEP KNEE SPACE ALONG WITH A MIN. TOE (CLEARANCE) SPACE OF 9" HIGH 2'-6" WIDE AND 1'-5" DEEP
- L-2 — HOT WATER AND DRAINPIPES ACCESSIBLE UNDER LAVATORY SHALL BE INSULATED OR OTHERWISE COVERED. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORY
- G-1 — GRAB BARS SEE GRAB BAR DIMENSIONS DETAIL

**HCAi USE**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WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSION. CONTRACTORS SHALL VERIFY, AND BE RESPONSIBLE FOR, ALL DIMENSIONS AND CONDITIONS ON THE JOB AND THIS OFFICE MUST BE NOTIFIED OF ANY VARIATION FROM THE DIMENSIONS AND CONDITIONS SHOWN BY THESE DRAWINGS. SHOP DETAILS MUST BE SUBMITTED TO THIS OFFICE FOR APPROVAL BEFORE PROCEEDING WITH FABRICATION.


ARCHITECT'S STAMP

LICENSED ARCHITECT JESSE L. GIVEN NO. C-30772 REN. 08-31-2025 STATE OF CALIFORNIA

CONSULTANT'S STAMP

SANTA CLARA VALLEY MEDICAL CENTER Hospital & Clinics

REVISIONS

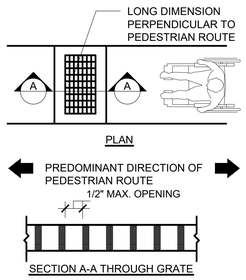
| NO. | DATE | DESCRIPTION |
|---|---|---|
| | 12.29.22 | 1ST SUBMITTAL |
| | 04.21.23 | 2ND SUBMITTAL |
| | 05.17.23 | 3RD SUBMITTAL |

HCAi #: S222248-43-00

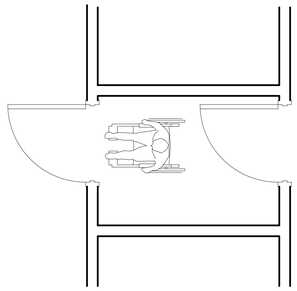
| | |
|---|---|
| Job No: | 22-0977 |
| Scale: | NTS |
| Drawn by: | FP |
| Reviewed by: | JV |

Sheet Name: ADA STANDARDS & MOUNTING HEIGHTS
DIGITAL IMAGING EQUIPMENT REPLACEMENT

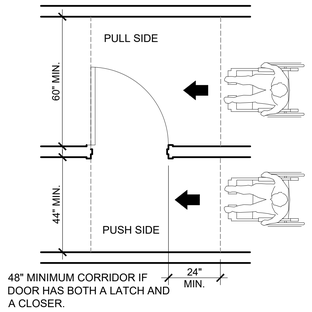
Sheet No: A0.1



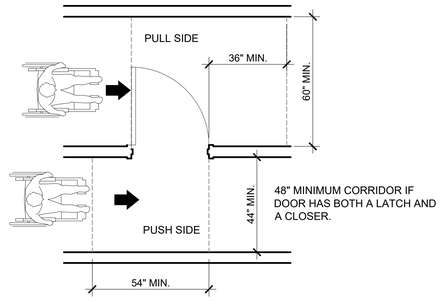

GRATE ORIENTATION TO PATH



TWO HINGED DOORS IN SERIES




LATCH APPROACH

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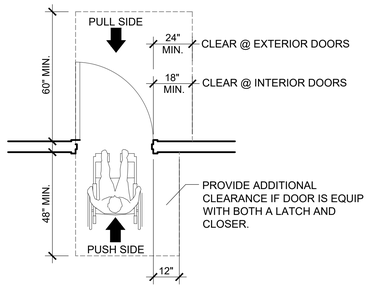
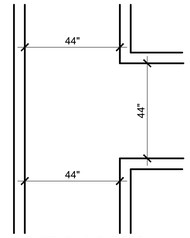
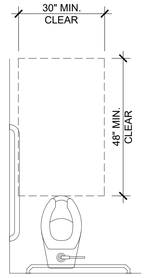



FRONT APPROACH

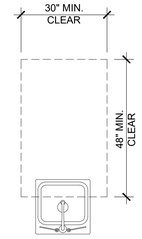



PASSING ALCOVE FOR CORRIDOR OVER 200' IN LIEU OF 60" MIN. WIDTH.

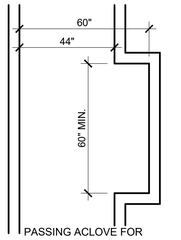
PASSING ALCOVE




MIN. CLEARANCES FOR TOILET

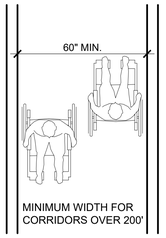



MIN. CLEARANCES FOR SINK

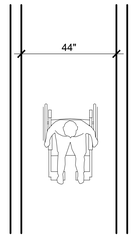



PASSING ACLOVE FOR CORRIDOR OVER 200' IN LIEU OF 60" MIN. WIDTH.

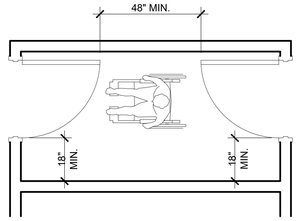
PASSING ALCOVE



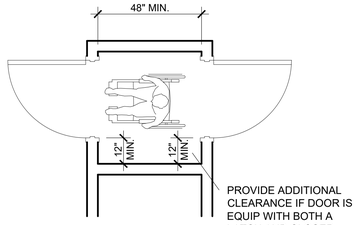

MINIMUM CORRIDOR WIDTH




MINIMUM CORRIDOR WIDTH




TWO HINGED DOORS IN SERIES

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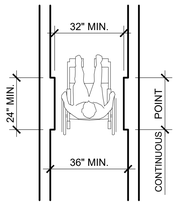
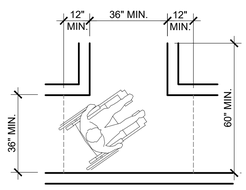
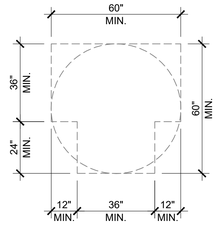


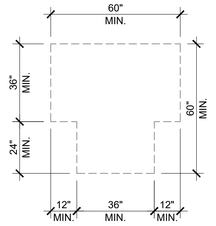

MINIMUM CLEAR WIDTH




TURNING SPACE

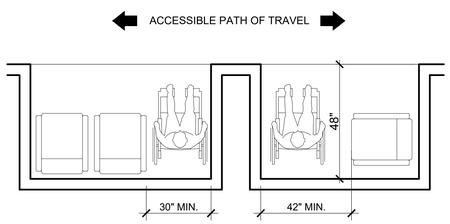



A. 60" DIAMETER

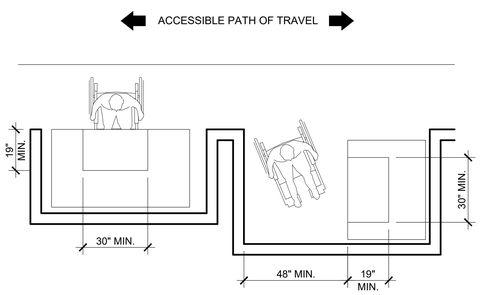



B. T-SHAPED FOR 180 TURNS

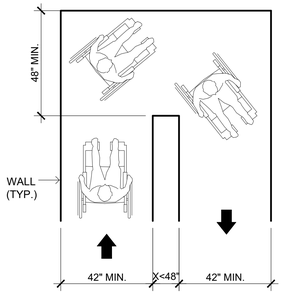
WHEELCHAIR CLEARANCE



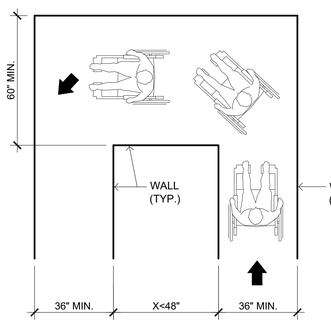

MIN. CLEARANCES FOR SEATING



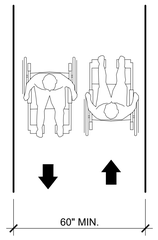

MIN. CLEARANCES FOR TABLE



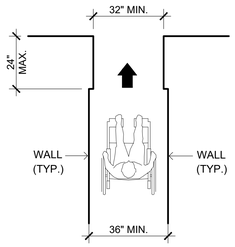

NOTE: DIMENSIONS SHOWN APPLY WHEN 'x' IS LESS THAN 48" TURNS AROUND AN OBSTRUCTION

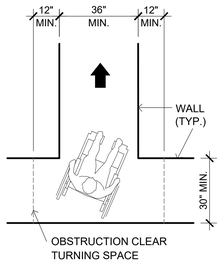



90-DEGREE TURN

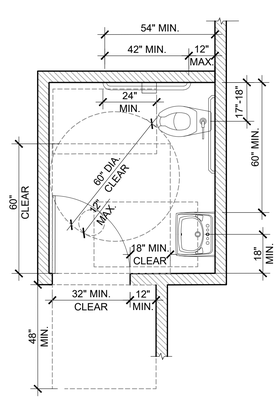



MIN. CLEAR WIDTH FOR TWO WHEELCHAIRS

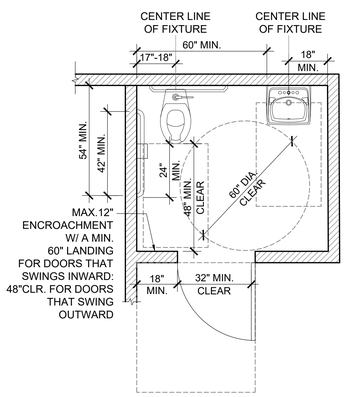


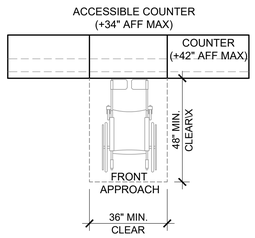




MIN. CLEAR WIDTH FOR SINGLE WHEELCHAIR

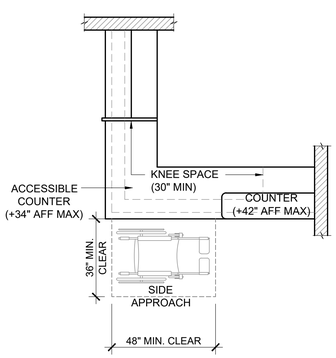



SINGLE ACCOMMODATION TOILET FACILITY

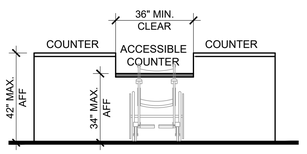


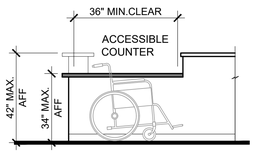

PLAN (FIG. 1)



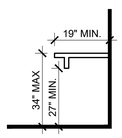

PLAN (FIG. 2)
MIN. CLEARANCES AT COUNTERS




ELEVATION
MIN. CLEARANCES AT COUNTERS




ELEVATION
MIN. CLEARANCES AT COUNTERS




SECTION
MIN. CLEARANCES AT CASEWORK

**HCAi USE**



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GIVEN DESIGN GROUP
190 S GLASSELL, STE 200
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FAX: 714.665.5924

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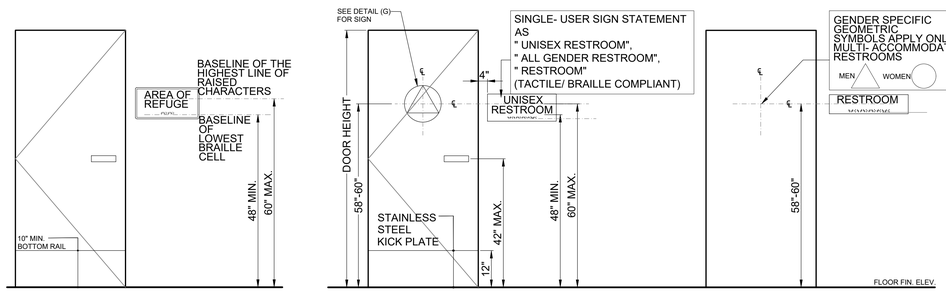
ADA STANDARDS & MOUNTING HEIGHTS
DIGITAL IMAGING EQUIPMENT REPLACEMENT

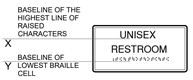
Sheet No:
A0.2




## A TABLE 11B-703.4.1 HEIGHT OF TACTILE CHARACTERS ABOVE FINISH FLOOR OR GROUND

**NOTE: PICTOGRAMS NOT REQUIRED**

THE PROVISION OF CBC CHAPTER 11B REQUIRE THAT A SANITARY FACILITY THAT IS NOT SPECIFICALLY IDENTIFIED AS FOR "MEN" OR " WOMEN" ( REFERRED TO IN CHAPTER 11B AS A "UNISEX" FACILITY HAVE A GEOMETRIC SYMBOL ON THE DOOR THAT IS AN EQUILATERAL TRIANGLE SUPERIMPOSED ONTO A CIRCLE. THE "UNISEX" SYMBOL IS THE ONLY SPECIFIC INDICATOR REQUIRED TO BE PROVIDED BY CHAPTER 11B FOR A TOILET FACILITY THAT IS AVAILABLE FOR USE BY ALL INDIVIDUALS.NO PICTOGRAM, TEXT, OR BRAILLE IS REQUIRED ON THE SYMBOL.
( SEE ATTACHMENT, EXHIBIT A.)




**TACTILE CHARACTERS ON SIGNS SHALL BE LOCATED 48 INCHES ( 1219 MM) MINIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE LOWEST BRAILLE CELLS AND 60 INCHES ( 1524 MM) MAXIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE HIGHEST LINE OF RAISED CHARACTERS. EXCEPTION: TACTILE CHARACTERS FOR ELEVATOR CAR CONTROLS SHALL NOT BE REQUIRED TO COMPLY WITH SECTION 11B-703.4.1.1**

## B TOILETS AND BATHING FACILITIES GEOMETRIC SYMBOLS

**EXHIBIT A- DOOR SYMBOL ( REQUIRED BY THE CBC )**

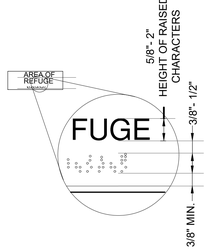
THIS IMAGE REPRESENTS THE DOOR SYMBOL THAT IS REQUIRED BY CBC 11B-216.8 TO IDENTIFY AN ALL-GENDER/UNISEX SINGLE-USER TOILET FACILITY. THE SYMBOL MUST COMPLY WITH THE REQUIREMENTS OF CBC 11B-703.7.2.6.3.

## C TACTILE/ RAISED CHARACTER & GD-II BRAILLE SIGN

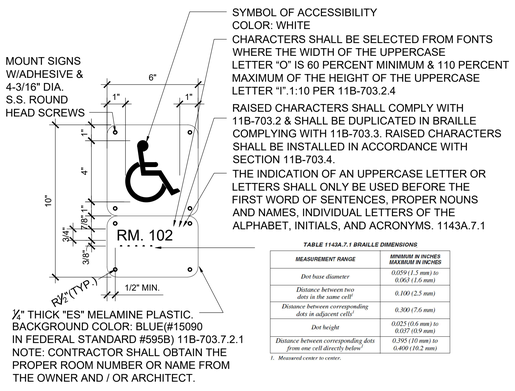
| HEIGHT TO FINISH FLOOR OR GROUND FROM BASELINE OF CHARACTER | HORIZONTAL VIEWING DISTANCE | MINIMUM CHARACTER HEIGHT |
|---|---|---|
| 40 INCHES (1016 mm ) TO LESS THAN OF EQUAL TO 70 INCHES (1778 mm) | < 72 INCHES (1829 mm) | 5/8 INCH (15.9 mm) |
| | 72 INCHES (1829 mm) > | 5/8 INCH (15.9 mm). PLUS 1/8 INCH (3.2 mm) PER FOOT (305 mm) OF VIEWING DISTANCE ABOVE 72 INCHES (1829 mm) |
| GREATER THAN 70 INCHES (1778 mm) TO LESS THAN OR EQUAL TO 120 INCHES (3048 mm) | < 180 INCHES (4572 mm) | 2 INCH (51 mm) |
| | 180 INCHES (4572 mm) > | 2 INCH (51 mm). PLUS 1/8 INCH (3.2 mm) PER FOOT (305 mm) OF VIEWING DISTANCE ABOVE 180 INCHES (4572 mm) |
| > 120 INCHES (3048 mm) | < 21 FEET (6401 mm) | 3 INCH (76 mm) |
| | 21 FEET (6401 mm) > | 3 INCH (76 mm). PLUS 1/8 INCH (3.2 mm) PER FOOT (305 mm) OF VIEWING DISTANCE ABOVE 21 FEET (6401 mm) |

## E TABLE 11B-703.3.1 BRAILLE DIMENSIONS

| MEASUREMENT RANGE | MINIMUM IN INCHES MAXIMUM IN INCHES |
|---|---|
| DOT BASE DIAMETER | 0.059- 0.063 |
| DISTANCE BETWEEN TWO DOTS IN THE SAME CELL | 0.100 |
| DISTANCE BETWEEN CORRESPONDING DOTS IN ADJACENT CELLS | 0.300 |
| DOT HEIGHT | 0.025 - 0.037 |
| DISTANCE BETWEEN CORRESPONDING DOTS FROM ONE CELL DIRECTLY BELOW | 0.395 - 0.400 |




## F FIGURE 11B-703.3.2 POSITION OF BRAILLE




¼" THICK "ES" MELAMINE PLASTIC.
BACKGROUND COLOR: BLUE(#15090 IN FEDERAL STANDARD #595B) 11B-703.7.2.1
NOTE: CONTRACTOR SHALL OBTAIN THE PROPER ROOM NUMBER OR NAME FROM THE OWNER AND / OR ARCHITECT.

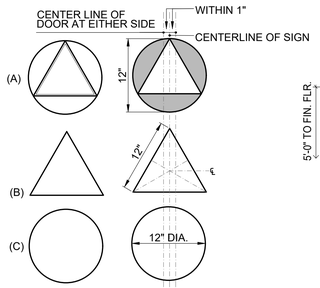
SYMBOL OF ACCESSIBILITY
COLOR: WHITE
CHARACTERS SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPERCASE LETTER "O" IS 60 PERCENT MINIMUM & 110 PERCENT MAXIMUM OF THE HEIGHT OF THE UPPERCASE LETTER "I".1:10 PER 11B-703.2.4
RAISED CHARACTERS SHALL COMPLY WITH 11B-703.2 & SHALL BE DUPLICATED IN BRAILLE COMPLYING WITH 11B-703.3. RAISED CHARACTERS SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 11B-703.4.
THE INDICATION OF AN UPPERCASE LETTER OR LETTERS SHALL ONLY BE USED BEFORE THE FIRST WORD OF SENTENCES, PROPER NOUNS AND NAMES, INDIVIDUAL LETTERS OF THE ALPHABET, INITIALS, AND ACRONYMS. 1143A.7.1

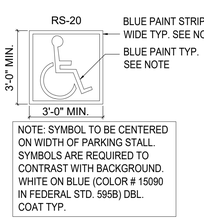
*TABLE 1143A.7.1 BRAILLE DIMENSIONS*

| MEASUREMENT RANGE | MINIMUM IN INCHES MAXIMUM IN INCHES |
|---|---|
| Dot base diameter | 0.059 (1.5 mm) to 0.063 (1.6 mm) |
| Distance between two dots in the same cell[a] | 0.100 (2.5 mm) |
| Distance between corresponding dots in adjacent cells[a] | 0.300 (7.6 mm) |
| Dot height | 0.025 (0.6 mm) to 0.037 (0.9 mm) |
| Distance between corresponding dots from one cell directly below[a] | 0.395 (10 mm) to 0.400 (10.2 mm) |

a. Measured center to center.

## G FIGURE 11B-703.7.2.1 INTERNATIONAL SYMBOL OF ACCESSIBILITY

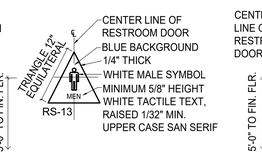


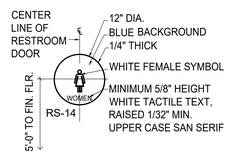




NOTE: SYMBOL TO BE CENTERED ON WIDTH OF PARKING STALL. SYMBOLS ARE REQUIRED TO CONTRAST WITH BACKGROUND. WHITE ON BLUE (COLOR # 15090 IN FEDERAL STD. 595B) DBL. COAT TYP.

EXIT

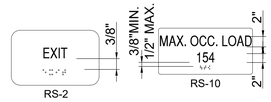
EXIT SIGNS SHALL BE INTERNALLY OR EXTERNALLY ILLUMINATED.
EXIT SIGN EXTERNALLY ILLUMINATED SHALL HAVE 5 FOOTCANDLES INTENSITY. TACTILE SIGNS BY CBC SECTION 1013.4 NEED NOT BE BE ILLUMINATED
EXIT SIGNS SHALL BE ILLUMINATED AT ALL TIMES & BE PROVIDED WITH 90 MINUTES MINIMUM IN CASE OF PRIMARY POWER LOSS & CONNECTED TO AN EMERGENCY POWER SYSTEM. 1013.6.3



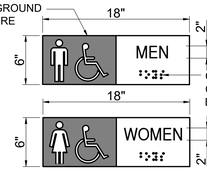

MEN RESTROOM
TOILET DOOR SIGN

WOMEN RESTROOM
TOILET DOOR SIGN

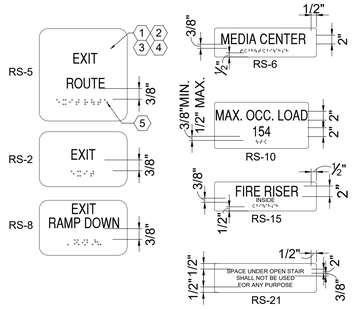



NOTES:
POST OCCUPANCY SIGN NEAR EXIT OF EACH ROOM OR SPACE SERVED.

BLUE 15090 FED. STD. 595B BACKGROUND WHITE FIGURE




NOTE: LETTERS AND NUMERALS SHALL BE RAISED 1/32" UPPER CASE, SAN SERIF OR SIMPLE SERIF TYPE AND SHALL BE ACCOMPANIED WITH GRADE II BRAILLE, RAISED CHARACTERS SHALL BE AT LEAST 5/8" HIGH, BUT NO HIGHER THAN 2", TYP.




1. CHARACTER TYPE: CHARACTERS ON SIGNS SHALL BE RAISED 1/32 INCH MINIMUM AND SHALL BE SANS SERIF UPPERCASE CHARACTERS ACCOMPANIED BY GRADE 2 BRAILLE (SEE NOTE 5 BELOW). PER CBC SEC. 11B-703.2.1

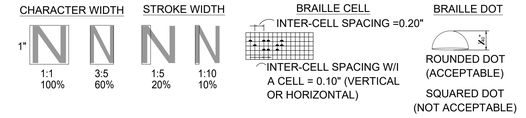
2. CHARACTER SIZE: RAISED CHARACTERS SHALL BE A MIN. OF 5/8" AND A MAXIMUM OF 2" HIGH.

3. FINISH AND CONTRAST: CONTRAST BETWEEN CHARACTERS, SYMBOLS AND THEIR BACKGROUND AND HAVE A NON-GLARE FINISH. 11B-703.5.1

4. PROPORTIONS: CHARACTERS ON SIGNS SHALL HAVE A WIDTH-TO-HEIGHT RATIO OF BETWEEN 3:5 AND 1:1 AND A STROKE WIDTH-TO-HEIGHT RATIO OF BETWEEN 1:5 AND 1:10. 11B-703.5.4

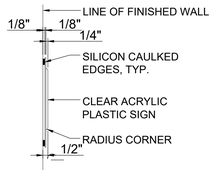
CHARACTERS SHALL BE UPPERCASE OR LOWERCASE OR A COMBINATION OF BOTH. CHARACTERS SHALL BE CONVENTIONAL IN FORM. CHARACTERS SHALL NOT BE ITALIC, OBLIQUE, SCRIPT, HIGHLY DECORATIVE, OR OF OTHER UNUSUAL FORMS. CHARACTERS SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPERCASE LETTER "O" IS 60 PERCENT MINIMUM AND 110 PERCENT MAXIMUM OF THE HEIGHT OF THE UPPERCASE LETTER "I". 11B-703.5.4

TEMPLATE FOR CHECKING CHARACTER AND STROKE WIDTH TO HEIGHT PROPORTIONS:



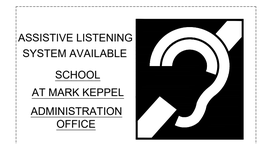

5. BRAILLE: CALIFORNIA GRADE 2 BRAILLE SHALL BE USED WHEREVER BRAILLE IS REQUIRED IN OTHER PORTIONS OF THESE STANDARDS. DOTS SHALL BE 1/10 INCH ON CENTERS IN EACH CELL WITH 2/10" SPACE BETWEEN CELLS, MEASURED THE SECOND COLUMN OF DOTS IN THE FIRST CELL TO THE FIRST COLUMN OF DOTS IN THE SECOND CELL. DOTS SHALL BE RAISED A MIN. 1/40" ABOVE THE BACKGROUND. 1117B.5.6 RECOMMEND ROUNDED OR DOMED CALIFORNIA BRAILLE DOTS, EACH DISTINCT AND SEPARATE. DOTS WITH STRAIGHT SIDES AND FLAT TOPS ARE NOT READABLE FOR MANY BRAILLE USERS.

6. REFER TO SPECIFICATIONS FOR SIGNAGE INFORMATION.




NOTES:

1. ATTACH SIGN WITH ADHESIVE ONLY AND CAULK EDGES WITH CLEAR SILICON. SIGN SHALL BE CENTER DOOR AND MOUNTED 60" ABOVE THE FLOOR TO THE BOTTOM OF BRAILLE.
2. PROVIDE SIGN TO BE INSTALLED ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR. CHARACTER HEIGHT, PROPORTION RAISED AND BRAILLE CHARACTERS AND PICTORIAL SYMBOL SIGN, FINISH AND CONTRAST, MOUNTING HEIGHT AND LOCATION SHALL COMPLY WITH THE REQUIREMENTS OF TITLE 24.




RS-7

NOTES:

1. PERMANENT ASSISTIVE LISTENING DEVICE RADIO FREQUENCY (FM)
(1) T-31 FM TRANSMITTER BY WILLIAMS SOUND
(2) R-31 RECEIVER BY WILLIAMS SOUND

MIN. (2) REQUIRED
CONTACT: HEARING PROMOTIONS
714) 669-0401

2. PORTABLE ASSISTIVE LISTENING DEVICE RADIO FREQUENCY (FM)
(1) PFM T-30 TRANSMITTER BY HEARING HELPER
(2) PFM R31 RECEIVER BY HEARING HELPER

MIN. (2) REQUIRED
CONTACT: HEARING HELPER
(866) 432-7776

3. COORDINATE SPEAKER LOCATION WITH ARCHITECT.

4. LETTER STYLE UPPERCASE SANS SERIF.

## H TACTILE BRAILLE SIGNS

1 SIGN MOUNTING DIAGRAM

SCALE: NTS

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| Drawn by: | FP |
| Reviewed by: | JV |

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DIGITAL IMAGING EQUIPMENT REPLACEMENT

Sheet No:
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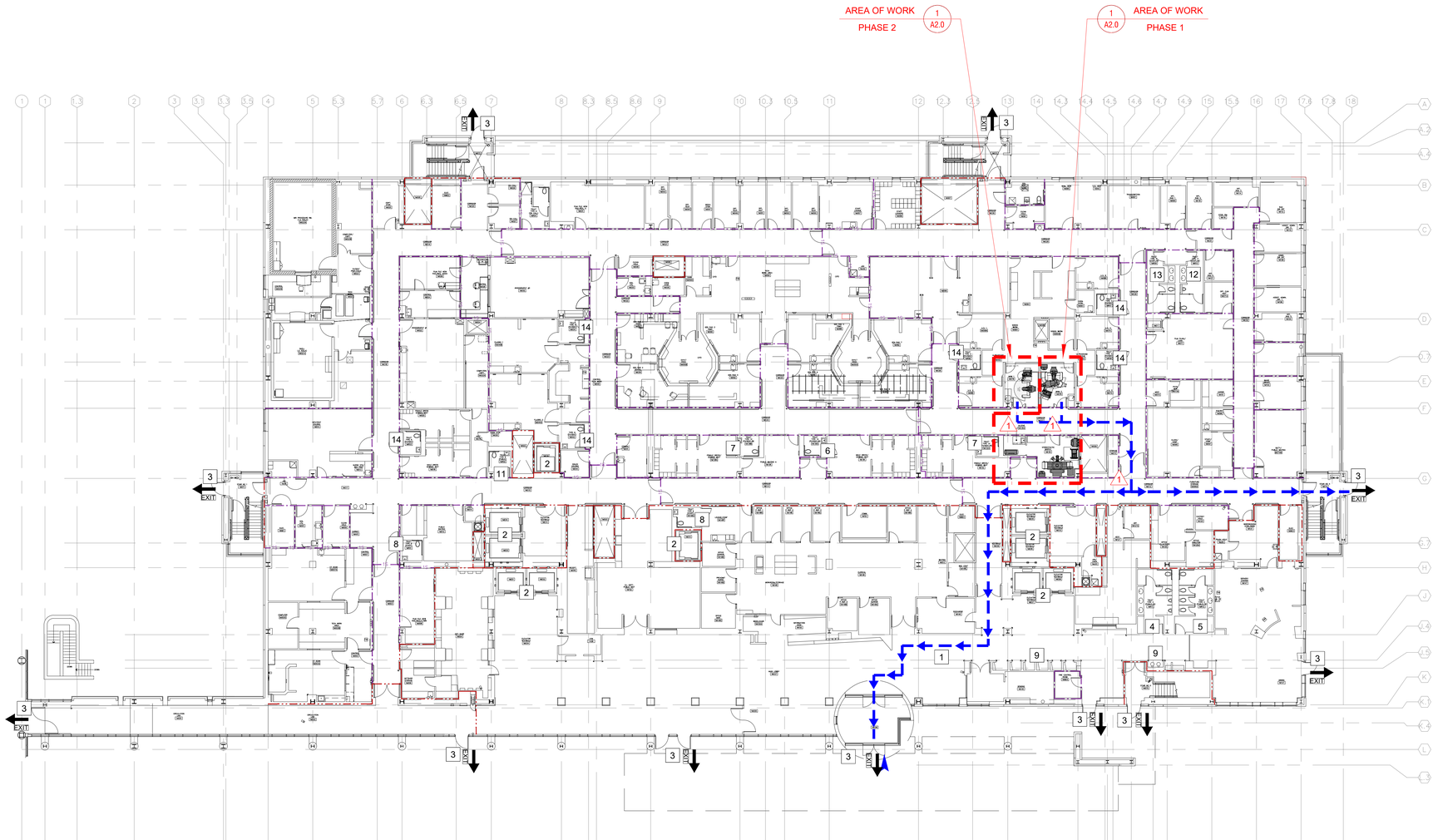



1 OVERALL FIRST FLOOR PLAN

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

## EXISTING CONDITION NOTES

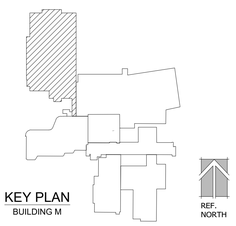
1. ACCESSIBLE PATH OF TRAVEL SHORTEST DISTANCE OF TRAVEL IS 133-2" WHICH COMPLIES WITH REQUIREMENT OF LESS THAN 200 FEET PER CBC TABLE 1017.2, 'I-2' OCCUPANCY FULLY SPRINKLERED.
2. ACCESSIBLE ELEVATOR
3. BUILDING EXITS
4. ACCESSIBLE PUBLIC MEN'S TOILET
5. ACCESSIBLE PUBLIC WOMEN'S TOILET
6. ACCESSIBLE PATIENT MEN'S TOILET
7. ACCESSIBLE PATIENT WOMEN'S TOILET
8. ACCESSIBLE ALL GENDER STAFF TOILET
9. ACCESSIBLE PUBLIC TELEPHONE
10. ACCESSIBLE DRINKING FOUNTAIN
11. ACCESSIBLE ALL GENDER PUBLIC TOILET
12. ACCESSIBLE STAFF MEN'S TOILET
13. ACCESSIBLE STAFF WOMEN'S TOILET
14. ACCESSIBLE ALL GENDER PATIENT TOILET

PLAN LAYOUT, ROOM NAMES AND ROOM NUMBERS OUTSIDE AREAS OF WORK ARE SHOWN FOR REFERENCE ONLY AND ARE BASED ON PLANS PROVIDED BY THE FACILITY. GDG ARCHITECTS HAS NOT VERIFIED THE ACCURACY OF EXISTING CONDITIONS.

## SYMBOLS LEGEND

- ENLARGED PLAN SHOWING AREA OF WORK
- BUILDING EXIT
- BUILDING ENTRANCE
- KEYNOTE
- PATH OF TRAVEL
- (E) WALLS
- (E) 1HR. FIRE PARTITION WALL
- (E) 1HR. SMOKE BARRIER WALL
- (E) 2HR. FIRE BARRIER WALL

## KEY PLAN

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REN. 03-31-2025
STATE OF CALIFORNIA

CONSULTANT'S STAMP

SANTA CLARA VALLEY MEDICAL CENTER
Hospital & Clinics

## REVISIONS

| NO. | DATE | DESCRIPTION |
|---|---|---|
| | 12.29.22 | 1ST SUBMITTAL |
| 1 | 04.21.23 | 2ND SUBMITTAL |
| | 05.17.23 | 3RD SUBMITTAL |

HCAi #:
S222248-43-00

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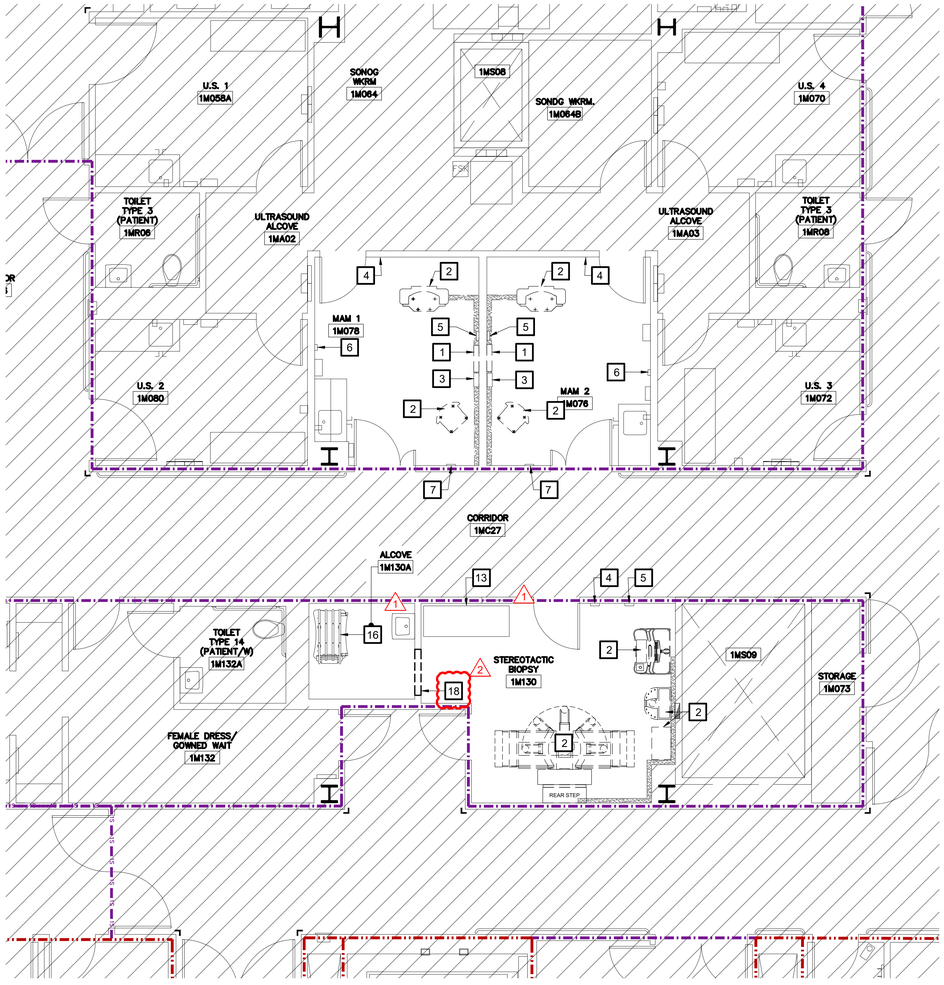
|---|---|
| Job No: | 22-0977 |
| Scale: | AS SHOWN |
| Drawn by: | FP |
| Reviewed by: | JV |
| Sheet Name: | |

OVERALL FIRST FLOOR PLAN

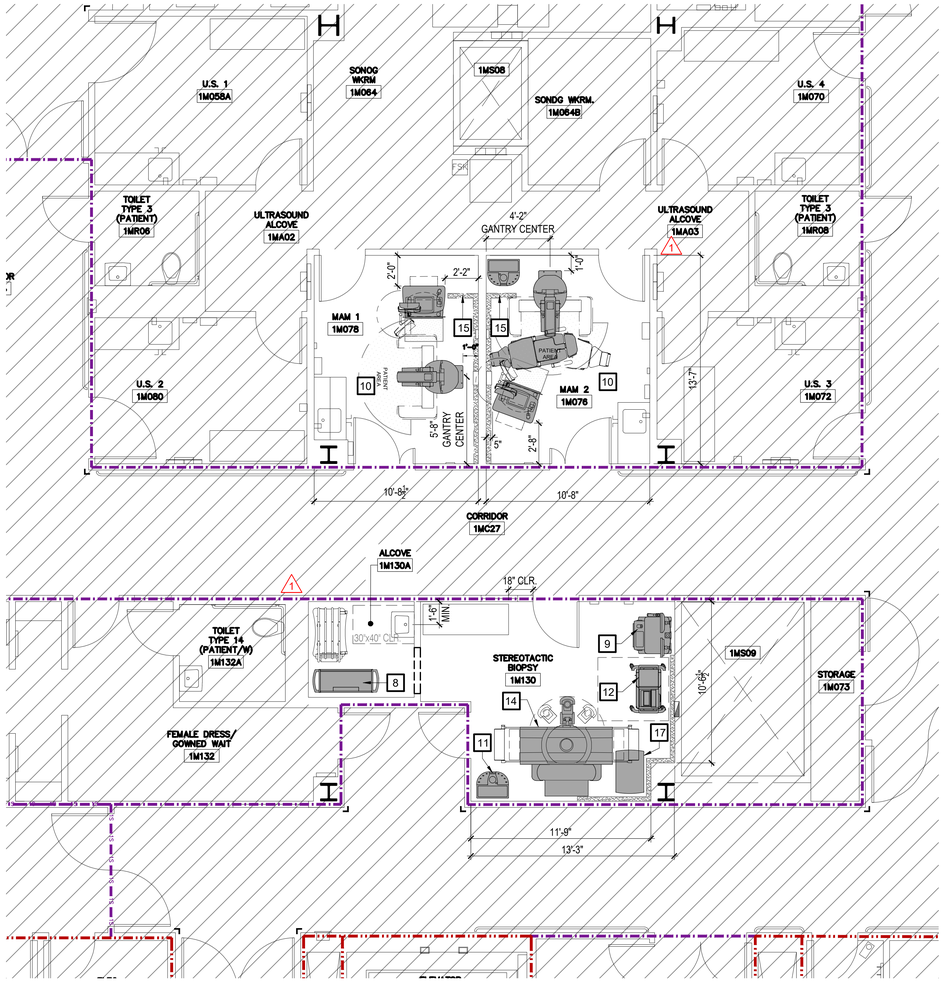
DIGITAL IMAGING EQUIPMENT REPLACEMENT

Sheet No:

A1.0




2 DEMOLITION PLAN




1 PROPOSED FLOOR PLAN

## KEYNOTES

1. EXISTING FILM ILLUMINATOR TO BE REMOVED.
2. EXISTING EQUIPMENT TO BE REMOVED.
3. EXISTING $O_2$ TO REMAIN.
4. EXISTING EMERGENCY SHUTOFF TO REMAIN.
5. EXISTING ELECTRICAL PANEL TO REMAIN UNO. SEE ELECTRICAL DRAWINGS.
6. EXISTING WALL-MOUNTED WORKSTATION TO REMAIN.
7. EXISTING NURSE CALL TO REMAIN.
8. NEW MOBILE ACCESSORY CART. 1
9. ACQUISITION WORKSTATION.
10. NEW SELENIA MAMMOGRAM EQUIPMENT PROVIDED BY HOLOGIC. FINAL LAYOUT TO BE VERIFIED BY HOLOGIC. SHOWN FOR REFERENCE ONLY.
11. ATEC SAPPHIRE CONSOLE.
12. TRIDENT HD SPECIMEN RADIOGRAPHY SYSTEM
13. EXISTING DESK TO REMAIN. 1
14. NEW BIOPSY WITH AFFIRM BREVERA EQUIPMENT PROVIDED BY HOLOGIC. FINAL LAYOUT TO BE VERIFIED BY HOLOGIC. SHOWN FOR REFERENCE ONLY. 1
15. EXISTING WALL RACEWAY HOLOGIC TO PROVIDE FINAL LAYOUT TO FIT EQUIPMENT. 1
16. EXISTING ACCESSORY CART TO REMAIN.
17. NEW BIOPSY SYSTEM GENERATOR
18. EXISTING CASED OPENING 2

PLAN LAYOUT, ROOM NAMES AND ROOM NUMBERS OUTSIDE AREAS OF WORK ARE SHOWN FOR REFERENCE ONLY AND ARE BASED ON PLANS PROVIDED BY THE FACILITY. GDG ARCHITECTS HAS NOT VERIFIED THE ACCURACY OF EXISTING CONDITIONS.

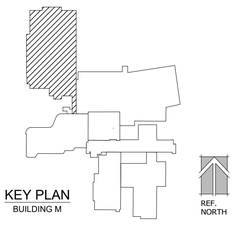
## SYMBOLS LEGEND

- NOT IN SCOPE
- (E) DOOR / PARTITION TO REMAIN
- (E) RACEWAY
- (N) EQUIPMENT
- (E) WALLS 1
- (E) 1HR. FIRE PARTITION WALL
- (E) 1HR. SMOKE BARRIER WALL
- (E) 2HR. FIRE BARRIER WALL

## NOTES

1. PROVIDE CONTINUOUS FIRE RATED CONSTRUCTION AROUND ALL RECESSED FIXTURES LOCATED IN FIRE RATED PARTITIONS.
2. PROVIDE BACKING PLATES FOR ALL NIC AND OFCI, OFVI, OFOI, VFVI, VFCI, WALL AND FLOOR MOUNTED EQUIPMENT SUCH AS VISUAL BOARD UNITS, SIGNAGE, WHITE BOARDS, BULLETIN BOARDS, TV'S, ARTWORK, FILM ILLUMINATORS, SECURITY CAMERAS, LOCKERS, ETC. AS SHOWN, UON.
3. REFER TO A5.0 SERIES FOR MEDICAL EQUIPMENT INFORMATION PHYSICIST REPORT A5.4.

## KEY PLAN




## HCAi USE

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THE DRAWINGS AND SPECIFICATIONS AND IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED HEREBY ARE AND SHALL REMAIN THE PROPERTY OF THE ARCHITECT; AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS.

WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSION. CONTRACTORS SHALL VERIFY, AND BE RESPONSIBLE FOR, ALL DIMENSIONS AND CONDITIONS ON THE JOB, AND THESE OFFICE MUST BE NOTIFIED OF ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN BY IN THESE DRAWINGS. SHOP DETAILS MUST BE SUBMITTED TO THIS OFFICE FOR APPROVAL BEFORE PROCEEDING WITH FABRICATION.

ARCHITECT'S STAMP

CONSULTANT'S STAMP

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| Drawn by: | FP |
| Reviewed by: | JV |

Sheet Name: DEMOLITION AND PROPOSED FLOOR PLANS

DIGITAL IMAGING EQUIPMENT REPLACEMENT

Sheet No: A2.0

# HOLOGIC, INC.

## PRELIMINARY 'SELENIA DIMENSIONS' ROOM PLANS

VALLEY MEDICAL CENTER
MAMMO 2 / ROOM 1M076
SAN JOSE, CA

DRAWING LEGEND

| SHEET | DESCRIPTION |
|---|---|
| 1.0 | COVER / TITLE |
| 2.0 | REVISED PRELIM. ROOM PLAN (OPTION 6) |
| 2.1 | REVISED PRELIM. ROOM PLAN (OPTION 7) |
| 3.2 | ELECTRICAL NOTES |
| 4.0 | GENERAL NOTES |

THIS DOCUMENT CONTAINS PROPRIETARY DATA OF HOLOGIC, INC. AND SHALL NOT BE USED FOR PURPOSES OTHER THAN THOSE AGREED UPON BETWEEN HOLOGIC AND ITS CUSTOMER. THIS DRAWING MAY NOT BE USED FOR CONSTRUCTION PURPOSES.

VALLEY MEDICAL CENTER
REVISED PRELIM. ROOM PLAN
SAN JOSE, CA

THESE DRAWINGS ARE FOR REVIEWING PURPOSES ONLY

DATE: 03-30-23
SCALE: 3/8"=1'-0"
DRAWN BY: DP
PURCHASE ORDER:
PROJECT NO: 23186P2
SHEET NO: 1.0

## EQUIPMENT LEGEND

N/A = NOT AVAILABLE

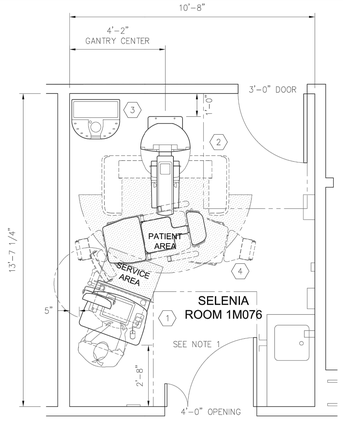
| ITEM | DESCRIPTION | BTU/HR | WT/LBS | WIDTH | DEPTH | HEIGHT |
|---|---|---|---|---|---|---|
| 1 | HOLOGIC<br>"SELENIA DIMENSIONS" UNIVERSAL<br>ACQUISITION WORKSTATION (WITH SHIELD) | 4,740<br>TYPICAL | 460<br>209kg | 36.9" /<br>53.4"<br>93.8cm | 25.4" /<br>48.4"<br>122cm | 85.6"<br>217.5cm |
| 2 | HOLOGIC<br>"SELENIA DIMENSIONS"<br>GANTRY WITH C-ARM | 6,800<br>MAX. | 897 *<br>407kg | 26"/66.5"<br>66/173cm | 51.6"<br>138cm | 87.8"<br>223cm |
| 3 | SUROS ATEC<br>BREAST BIOPSY AND EXCISION SYSTEM<br>(OPTIONAL – VERIFY) | N/A | 100<br>45kg | 25"<br>63cm | 21"<br>53cm | 37"<br>93cm |
| 4 | AKRUS<br>5010 MAMMOGRAPHY POSITIONING<br>CHAIR (OPTIONAL – VERIFY) | – | 209.4<br>95kg | 29.9"<br>76cm | 66.1"<br>168cm | 56.7"<br>144cm |

* INCLUDES AFFIRM (APPROXIMATELY 15 LB), ATTACHED TO GANTRY.

NOTE 1: ALL RADIATION PROTECTION TO BE DESIGNED BY, OR APPROVED BY CUSTOMER'S LICENSED RADIATION PHYSICIST.
NOTE 2: EQUIPMENT INSTALLERS WILL USE EXISTING WIREWAYS WHEREVER POSSIBLE. HOSPITAL ENGINEERING DEPARTMENT TO PROVIDE HOLOGIC SITE PLANNING OFFICE WITH AS BUILT DRAWINGS, SHOWING WIREWAY LOCATIONS AND ROUTING ABOVE CEILING AND BELOW FLOOR.
NOTE 3: HOLOGIC STRONGLY RECOMMENDS REMOTE ACCESS VIA HOLOGIC CONNECT TO THE ACQUISITION WORKSTATION FOR REMOTE DIAGNOSTIC SUPPORT. CONSULT WITH HOLOGIC CONNECTIVITY SPECIALIST REGARDING REQUIREMENTS. RECOMMENDATION: SWITCH GIGABIT ETHERNET (1000 BASE–T).
NOTE 4: "SELENIA DIMENSIONS" GANTRY POWER IS TO BE PERMANENTLY WIRED.
NOTE 5: IN ACCORDANCE WITH IEC–60601–1, A MINIMUM CLEARANCE OF 50CM (20") MUST BE MAINTAINED BETWEEN THE TUBE HEAD AT ANY POSITION OF ROTATION, AND ANY STATIONARY OBJECT (EXCLUDING FLOOR). IF THIS REQUIREMENT IS NOT MET, AUTO C–ARM ROTATION MUST BE DISABLED AT THE TIME OF INSTALLATION.

## SITE CONDITIONS FOR SELENIA DIMENSIONS SYSTEM

| | |
|---|---|
| MINIMUM RECOMMENDED ROOM SIZE | 9'–0" X 12'–0" |
| MINIMUM CEILING HEIGHT | 8'–0" A.F.F. |
| RECOMMENDED CEILING HEIGHT | 9'–0" A.F.F. |
| OPERATING TEMPERATURE RANGE<br>(MAINTAIN TEMPERATURE RANGE<br>24 HRS./DAY, 7 DAYS/WK.) | 68 – 86° F (20–30° C).<br>77° F – ROOM TEMP FOR OPTIMAL PERFORMANCE.<br>MAXIMUM ALLOWABLE TEMPERATURE CHANGE<br>RATE OF 10° C PER HOUR. |
| OPERATING HUMIDITY RANGE | 20 – 80% , NON CONDENSING. |
| STORAGE TEMPERATURE (SYSTEM<br>POWERED DOWN OR IN STORAGE) | 50 – 104° F – GANTRY, EXCLUDING DETECTOR ASSY.<br>59 – 86° F – DETECTOR ASSEMBLY<br>14 – 104° F – ACQUISITION WORKSTATION. |
| ELECTROMAGNETIC INTERFERENCE | REFER TO SITE PLANNING GUIDE FOR SPECIFICATIONS |
| EQUIPMENT ENTRY REQUIREMENTS | |
| GANTRY SHIPPING CRATE | 38" x 66" x 88" (97 cm x 168 cm x 224 cm) |
| ACQUISITION WORKSTATION SHIPPING CRATE | N/A |
| MINIMUM ENTRANCE | 2'–6" x 7'–0" (76 cm x 213 cm) |
| RECOMMENDED ENTRANCE | 3'–0" x 7'–0" (91 cm x 213 cm) |




'SELENIA DIMENSIONS' EQUIPMENT PLAN
OPTION 7

PRIOR TO INSTALLATION, THIS ROOM MUST BE TESTED BY HOLOGIC FOR POTENTIAL ELECTROMAGNETIC INTERFERENCE

NOTE: THE EQUIPMENT LAYOUT, ROOM DIMENSIONS, ELECTRICAL AND MECHANICAL DETAILS, ARE BASED ON THE BEST INFORMATION AVAILABLE FROM THE SITE, IN ADDITION TO THE CUSTOMER'S KNOWN REQUIREMENTS. ARCHITECTURAL OR ELECTRICAL CHANGES, INCLUDING RELOCATION OF EQUIPMENT ILLUSTRATED IN THIS DRAWING, ARE ALLOWED ONLY WITH NOTIFICATION IN WRITING, AND REVIEW BY HOLOGIC SERVICE DEPT.. HOLOGIC RESERVES THE RIGHT TO MAKE CHANGES BASED ON CUSTOMER'S WISHES, CONSTRUCTION PROBLEMS, ETC.

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VALLEY MEDICAL CENTER
REVISED PRELIM. ROOM PLAN
SAN JOSE, CA

THESE DRAWINGS ARE FOR REVIEWING PURPOSES ONLY

DATE: 03-30-23
SCALE: 3/8"=1'-0"
DRAWN BY: DP
PURCHASE ORDER:
PROJECT NO: 23186P2
SHEET NO: 2.1

## ELECTRICAL USE REQUIREMENTS

| REQUIREMENT | GANTRY | ACQUISITION WORKSTATION |
|---|---|---|
| INPUT LINE VOLTAGE<br>INPUT CURRENT<br>FREQUENCY<br>NUMBER OF PHASES | 200, 208, 220, 230, 240VAC, 50–60 HZ, SINGLE PHASE<br>40 AMP, HACR OR UL 489 RATED CIRCUIT BREAKER / DISCONNECT.<br>THE SELENIA DIMENSIONS GANTRY TO BE PERMANENTLY WIRED ONLY. | 100, 120 VAC/220, 230, 240VAC<br>3.5 A/2.0A<br>50–60 HZ, SINGLE PHASE<br><br>HOSPITAL GRADE RECEPTACLE REQUIRED |

## PHYSICAL AND ENVIRONMENTAL REQUIREMENTS

| | | |
|---|---|---|
| OPERATING TEMPERATURE RANGE<br>(MAINTAIN TEMPERATURE RANGE<br>24 HRS./DAY, 7 DAYS/WK.) | 68 – 86° F (20–30° C) / 77° F – ROOM TEMP FOR OPTIMAL PERFORMANCE<br>MAXIMUM ALLOWABLE TEMPERATURE<br>CHANGE RATE OF 10° C PER HOUR. | |
| OPERATING HUMIDITY RANGE | 20 – 80% , NON CONDENSING. | |
| STORAGE TEMPERATURE<br>(SYSTEM POWERED DOWN,<br>OR IN STORAGE) | 50 – 104° F (10 – 40° C) – GANTRY, EXCLUDING DETECTOR ASSEMBLY<br>59 – 86° F (15 – 30° C) – DETECTOR ASSEMBLY<br>14 – 104° F (–10 – 40° C) – ACQUISITION WORKSTATION | |
| ELECTROMAGNETIC INTERFERENCE | REFER TO SITE PLANNING GUIDE FOR SPECIFICATIONS | |
| MAXIMUM SEPARATION FROM<br>IMAGE RECEPTOR | N/A | 12.2M (40") |
| OVERALL DIMENSIONS | 26"W x 35"D x 88"H * C–ARM SPANS 68"W *<br>(66cm x 89cm x 224cm) | 53.4"W x 48.4"D x 80.3"H<br>(135.6cm x 122cm x 204cm) |

## NETWORKING NOTES:

SUPPLYING AND INSTALLING NETWORK CONNECTIONS BETWEEN DIAGNOSTIC IMAGING EQUIPMENT AND OTHER NODE CONNECTIONS SHALL BE THE CUSTOMER'S RESPONSIBILITY. CUSTOMER MUST SPECIFY, SUPPLY AND INSTALL PROPER RECEPTACLES, AUI TRANSCEIVERS, CABLING, REPEATERS, ROUTERS, MODEMS, ETC. WHICH ARE CONSISTENT WITH THE SITE NEEDS AND SOUND NETWORK IMPLEMENTATION PRACTICES. ALSO INCLUDED, BUT NOT LIMITED TO, THE CUSTOMER'S RESPONSIBILITY IS THE PURCHASE AND INSTALLATION OF CONDUITS, RACEWAYS FOR CONTAINMENT AND ROUTING OF NETWORKING CABLES, AS DETERMINED BY SITE CONDITIONS, OR REQUIRED BY PREVAILING CODES.

## MAMMOGRAPHY SYSTEM SPECIFICATIONS:

### SYSTEM

| | |
|---|---|
| INPUT LINE | 200–240VAC, (±10%), 65 AMP MAX. FOR 5 SECOND DURATION AT 208VAC, 50–60HZ |

### GENERATOR

| | |
|---|---|
| TYPE | CONSTANT POTENTIAL HIGH FREQUENCY, INVERTER TYPE |
| RATING | 7.0 kW, MAX. (ISOWATT), 200 mA AT 35 kV |
| kV RANGE | 20 kV TO 49 kV IN 1 kV INCREMENTS |
| mAs RANGE | 3.0 mAs TO 500 mAs |
| mA RANGE | 10 mA TO 200 mA, LARGE FOCAL SPOT<br>10 mA TO 50 mA, SMALL FOCAL SPOT |

### C-ARM ASSEMBLY

| | |
|---|---|
| VERTICAL TRAVEL | 71 CM TO 142 CM (27.8" TO 56") MOTORIZED |
| ROTATION | +195° TO –155° CONVENTIONAL MAMMOGRAPHY<br>+180° TO –140° BIOPSY, TOMOSYNTHESIS |
| SID | 70 CM |
| PATIENT FACE SHIELD | REMOVABLE, RETRACTABLE |

### RADIATION SHIELD

| | |
|---|---|
| H x W | 203 CM x 86 CM (80" x 34") |
| LEAD EQUIVALENCE | 0.5 MM |
| MATERIAL | LEADED ACRYLIC |

## UL LISTING NOTE

THE 'SELENIA DIMENSIONS' SYSTEM IS UL APPROVED 'AS A SYSTEM'. THE GANTRY AND CONSOLE ARE NOT CONSIDERED TO BE INDEPENDANT COMPONENTS (BY UL). A SINGLE UL CERTIFICATION LABEL HAS BEEN PROVIDED BY UL, AND IS AFFIXED TO THE AWS CONSOLE.

## SUPPLEMENTAL NOTES

ALL ITEMS LISTED BELOW ARE TO BE PROVIDED / DESIGNED BY THE ARCHITECT. THE ARCHITECT SHALL CONSULT WITH THE CUSTOMER FOR ANY ADDITIONAL INFORMATION.

1. RECOMMEND INCANDESCENT OR LED, AS WELL AS FLUORESCENT LIGHT FIXTURES. THE INCANDESCENT OR LED FIXTURES SHOULD BE DISTRIBUTED AROUND THE ROOM. HOLOGIC RECOMMENDS AGAINST THE USE OF DIMMER CONTROLS, AS THEY CAN CAUSE ISSUES WITH EMI INTERFERENCE.
2. IT IS RECOMMENDED THAT ALL DIAGNOSTIC ROOMS SHOULD HAVE TILE OR VINYL FLOORING.
3. A TILE DROP CEILING IS RECOMMENDED FOR ANY DIAGNOSTIC ROOMS.
4. ALL CABINETRY WORK IS TO BE DESIGNED AND PROVIDED BY THE ARCHITECT. RECOMMEND ALL COUNTERS HAVE ROUNDED CORNERS.

## GROUNDING NOTES

* FIELD VERIFY ACTUAL APPLICATION WITH LOCAL LICENCED ELECTRICIAN.

THE SOURCE GROUND CONNECTION FOR THIS SYSTEM WILL BE THE GROUND SIDE OF THE NEUTRAL TO GROUND BONDING POINT FOR THE POWER DELIVERED TO THIS SYSTEM. THE SOURCE WILL BE EITHER THE MAIN SERVICE ENTRANCE PANEL OR A SEPARATELY DERIVED SOURCE, SUCH AS AN ISOLATION TRANSFORMER. SYSTEM LOCALIZED COLD WATER PIPING OR BUILDING STEEL ARE NOT ACCEPTABLE GROUND SOURCE CONNECTION POINTS. THE SOURCE GROUND CONDUCTOR SHALL BE OF THE SAME SIZE AND TYPE AS THE PHASE CONDUCTORS SUPPLYING THE SYSTEM. REFER TO LOCAL AND NATIONAL ELECTRICAL CODES FOR GROUNDING REQUIREMENTS.

## WIRING NOTES

ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL CONDUITS, WIRE, WIREWAYS, DISTRIBUTION TRANSFORMERS, JUNCTION BOXES, ENCLOSURES, CIRCUIT BREAKERS, ETC. ALL WIRES TO BE THHN TYPE, STRANDED COPPER UNLESS OTHERWISE SPECIFIED. THE ELECTRICAL CONTRACTOR SHALL SUPPLY LUG PAIRS OF #8 OR GREATER FOR ALL CABLES LISTED WITHIN THE SCOPE OF THIS WORK. CONDUIT AND DUCT RUNS ARE SHOWN SCHEMATICALLY. ACTUAL BUILDING CONDITIONS WILL DETERMINE CONDUIT AND DUCT ROUTES. CONDUIT TURNS TO HAVE LARGE SWEEPING BENDS WITH MINIMUM RADIUS AS SPECIFIED IN NEC ART. 346–10. IF LARGE BENDS IN CONDUIT ARE NOT POSSIBLE, USE SERVICE ENTRANCE ELBOW CONNECTORS TO AVOID DAMAGE TO CABLE. ELECTRICAL CONTRACTOR TO PROVIDE 10'–0" TAILS FOR ALL WIRES UNLESS OTHERWISE SPECIFIED AND IDENTIFY BOTH ENDS OF ALL WIRES. ELECTRICAL CONTRACTOR SHALL MAKE EVERY EFFORT TO ENSURE THAT POINT TO POINT CONDUIT RUNS ARE AS SHORT AS FIELD CONDITIONS ALLOW. LEAVE PULL WIRE IN EMPTY CONDUITS. WORK SHALL COMPLY WITH REGULATORY AGENCIES OF JURISDICTION AS. SUCH AGENCIES SUPERSEDE THESE DRAWINGS AND MUST BE ADHERED TO. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR SCRUTINIZING THESE DRAWINGS AND SHALL MAKE CORRECTIONS ACCORDING TO PREVAILING CODES. NOTE: CONDUITS MAY BE INCREASED IN SIZE BUT NEVER DECREASED WITHOUT CONSENT FROM THE EQUIPMENT REPRESENTATIVES. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING THE PATIENT GROUNDING NETWORK PER NATIONAL ELECTRIC CODE ARTICLE 517 AND NFPA 70. ALL CONDUIT SHALL BE RIGID TYPE UNLESS SPECIFIED OTHERWISE IN THIS DRAWING SET. ALL CONDUIT RUNS EXPOSED TO WET ENVIRONMENTS SHALL BE MADE LIQUID TIGHT, (e.g. UNDERGROUND, ETC.) ALL FLUSH MOUNTED ELECTRICAL BOXES AND WIRE TROUGHS SHALL HAVE OVERSIZED COVER PLATES. ALL FLUSH MOUNTED ELECTRICAL BOXES AND WIRE TROUGHS EXPOSED TO A WET ENVIRONMENT SHALL BE MADE LIQUID TIGHT. (e.g. IN FLOOR, ETC.) THE ELECTRICAL CONTRACTOR SHALL INSTALL, PROVIDE POWER TO AND CONNECT THE FOLLOWING IF REQUIRED: THE "X–RAY IN USE" WARNING SIGN; THE 120VAC, 15AMP RECEPTACLE; THE DOOR INTERLOCK SWITCH; THE EMERGENCY OFF SWITCH; AND THE 120VAC, DUPLEX OUTLETS FOR SERVICE AND HOUSEKEEPING.

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VALLEY MEDICAL CENTER
REVISED PRELIM. ROOM PLAN
SAN JOSE, CA

THESE DRAWINGS ARE FOR REVIEWING PURPOSES ONLY

DATE: 03-30-23
SCALE: 3/8"=1'-0"
DRAWN BY: DP
PURCHASE ORDER:
PROJECT NO: 23186P2
SHEET NO: 3.2

## GENERAL NOTES

1. THE DRAWINGS AND SPECIFICATIONS CONTAINED IN THIS PACKAGE ARE DESIGNED TO CONFORM TO STRUCTURAL FEATURES AND EQUIPMENT REQUIREMENTS PRESENTED AT THE TIME OF THEIR PREPARATION. HOWEVER, SINCE THESE FACTORS ARE SUBJECT TO DESIGN MODIFICATIONS, THE DRAWINGS ARE NOT TO BE USED AS CONSTRUCTION DOCUMENTS. CONSTRUCTION PLANS ARE THE RESPONSIBILITY OF THE CUSTOMER'S ARCHITECT OR ENGINEER, WHO SHALL SEE THAT ALL APPLICABLE CODES AND REGULATIONS ARE COMPLIED WITH. ANY CHANGES MUST BE BROUGHT TO THE ATTENTION OF THE HOLOGIC PLANNING OFFICE OR THE OFFICE OF THE MANUFACTURER'S REPRESENTATIVE SUPERVISING THE PRE–INSTALLATION WORK SITE. ALL FINAL DRAWINGS MUST BE SUBMITTED TO HOLOGIC FOR REVIEW.
2. ALL DIMENSIONS ARE GIVEN FROM FINISHED SURFACES. WHERE DIMENSIONS ARE NOT GIVEN, FIELD MEASUREMENTS SHOULD BE TAKEN. ALL EXISTING CONDITIONS ARE TO BE VERIFIED BY THE CUSTOMER'S CONTRACTOR, AND ANY DISCREPANCIES SHOULD BE BROUGHT TO THE ATTENTION OF THE HOLOGIC PLANNING OFFICE.
3. EQUIPMENT PURCHASER SHALL, AT HIS EXPENSE, PROVIDE THE NECESSARY LABOR AND MATERIAL FOR ANY PLUMBING, CARPENTRY, STRUCTURAL AND ELECTRICAL WORK SUCH AS REINFORCEMENT, CONDUITS, WIREWAYS, SWITCHES, ETC., WHICH MAY BE REQUIRED FOR THE INSTALLATION OF X–RAY ROOM EQUIPMENT. HOLOGIC ASSUMES NO RESPONSIBILITY FOR ANY CONSTRUCTION COSTS WHETHER OR NOT RELATED TO THE INSTALLATION OF OUR EQUIPMENT NO WORK MAY BE PERFORMED OR MATERIALS FURNISHED AT OUR EXPENSE, UNLESS AUTHORIZED BY A SIGNED, FORMAL HOLOGIC PURCHASE ORDER
4. THE CUSTOMER, AT HIS EXPENSE, SHALL EMPLOY A REGISTERED PHYSICIST TO SPECIFY RADIATION PROTECTION.
5. THE CUSTOMER'S ARCHITECT SHALL VERIFY THAT ALL DOOR AND PASSAGE SIZES ARE ADEQUATE FOR DELIVERY OF EQUIPMENT FROM EXTERIOR, INTO THE ROOM. IF PROFESSIONAL RIGGING SERVICES ARE REQUIRED, THESE SHALL BE PROVIDED AT THE CUSTOMER'S EXPENSE.
6. ALL NEW FINISHED FLOOR SURFACES SHOULD BE LEVEL. THE FLOOR AREA UNDER THE EQUIPMENT BASES, EXTENDING 3'–0" IN ALL DIRECTIONS AROUND EACH BASE, MUST BE LEVELLED, USING A CARPENTER'S LEVEL OF APPROPRIATE LENGTH, TO WITHIN 1/16".
7. THE CUSTOMER'S CONTRACTOR SHALL OBTAIN ALL PERMITS NECESSARY FOR CONSTRUCTION.
8. THE DELIVERY AND INSTALLATION OF RADIOLOGY EQUIPMENT, SHALL NOT COMMENCE UNTIL HOLOGIC HAS RECEIVED NOTIFICATION BY THE CUSTOMER OR HIS ARCHITECT, THAT THE CONSTRUCTION PHASE HAS BEEN COMPLETED AND THE ENVIRONMENT IS CLEAN AND DUST FREE.
9. ALL BUILDING UTILITIES SERVICING THE SITE SHALL BE OPERATIONAL.
10. THE CUSTOMER AND A HOLOGIC REPRESENTATIVE SHALL INSPECT AND ACCEPT THE ROOM BEFORE WORK BEGINS ON THE INSTALLATION OF EQUIPMENT. IF ROOM PREPARATION IS INCOMPLETE OR INCORRECT, THE CUSTOMER'S CONTRACTOR IS RESPONSIBLE FOR THE COST OF CORRECTING ANY PROBLEMS.
11. AS THIS DRAWING CONTAINS CONFIDENTIAL AND PROPRIETARY INFORMATION, THE CUSTOMER, IN ACCEPTING THIS DRAWING, AGREES NOT TO REPRODUCE, OR DISTRIBUTE IT TO OTHERS, OR TO USE THE INFORMATION CONTAINED THEREIN, IN ANY MANNER DETRIMENTAL TO HOLOGIC SYSTEMS DIVISION.

## ARCHITECTURAL NOTES

1. THIS SET OF DRAWINGS IS FOR THE PURPOSE OF A LAYOUT PLAN ONLY – NOT FOR CONSTRUCTION. THESE DRAWINGS ARE FOR THE BENEFIT OF PURCHASER'S ARCHITECT OF CHOICE. THE ARCHITECT AND BUILDING CONTRACTORS SHALL CONVERT THIS LAYOUT INTO WORKING AND CONSTRUCTION DRAWINGS OBSERVING ALL PREVAILING CODES. THESE DRAWINGS ARE INTENDED TO PROVIDE THE CONSTRUCTION PARTICIPANTS WITH SPECIFICATION AND CONCEPTUAL INFORMATION ONLY. EVERY EFFORT HAS BEEN MADE TO CONFORM DETAILS TO THE ACTUAL EQUIPMENT EXPECTED TO BE INSTALLED. THESE PLANS HAVE BEEN SCALED FROM PRINTS OR ARCHITECTURAL DRAWINGS BY OTHERS, OR FROM SKETCHES RECEIVED FROM FIELD SERVICE ENGINEERS UPON COMPLETION OF THE SITE SURVEY. HOLOGIC IS NOT LIABLE FOR ERRORS OR OMISSIONS. ALL CONSTRUCTION PARTICIPANTS SHALL VERIFY AND ADJUST DIMENSIONS. CRITICAL DIMENSIONAL RELATIONSHIPS HAVE BEEN SUPPLIED. IT IS THE RESPONSIBILITY OF ALL CONSTRUCTION PARTICIPANTS TO ADHERE TO THESE DISTANCES. ALL DIMENSIONS ARE FROM FINISHED SURFACES UNLESS OTHERWISE NOTED. RECOMMEND THE CUSTOMER'S CONTRACTOR COORDINATE WITH THE LOCAL HOLOGIC INSTALLER TO VERIFY THAT ALL DOOR AND PASSAGEWAY SIZES ARE ADEQUATE FOR TRANSPORTING EQUIPMENT FROM EXTERIOR OF BUILDING INTO RESPECTIVE ROOMS. RECOMMEND COVERING OR REMOVING THRESHOLDS. THOSE MAKING USE OF, OR RELYING ON THIS MATERIAL ASSUME ALL RISKS AND LIABILITY ARISING FROM SUCH USE OR RELIANCE. ALL CONSTRUCTION SHALL COMPLY WITH BUILDING CODES AND REGULATIONS THAT HAVE JURISDICTION.
2. ALL SUPPLY DIFFUSERS SHALL NOT CAUSE DIRECT AIR CURRENTS ON PATIENTS OR OPERATORS. RECOMMEND 2' X 4' LAY–IN CEILING PANELS OF MATERIAL ACCEPTABLE TO CUSTOMER, AND APPROVED PER PREVAILING CODES. LIGHTING FIXTURES, VENTS, ETC. TO BE FLUSH WITH FINISHED CEILING.
RECOMMEND INCANDESCENT OR LED, AS WELL AS FLUORESCENT LIGHT FIXTURES. THE INCANDESCENT OR LED FIXTURES SHOULD BE DISTRIBUTED AROUND THE ROOM.
HOLOGIC RECOMMENDS AGAINST THE USE OF DIMMER CONTROLS, AS THEY CAN CAUSE ISSUE WITH EMI INTERFERENCE.
3. ARCHITECT AND ENGINEERS SHALL USE EXISTING ELECTRICAL AND STRUCTURAL ITEMS WHEN FEASIBLE.
4. ALL WORK EXCEPT INSTALLATION OF HOLOGIC SUPPLIED DIAGNOSTIC IMAGING EQUIPMENT IS TO BE DONE BY OTHERS.
5. SOME CONVENIENCES MAY BE REQUIRED BY CODE OR DESIRED BY CUSTOMER IN EACH RESPECTIVE ROOM (I.E., CASSETTE STORAGE, ILLUMINATORS, CABINETS, SINKS, AND COUNTER SPACE). PLEASE CONSULT WITH CUSTOMER WITH REGARDS TO DESIRED CONVENIENCES.
6. ELECTRICAL POWER FOR X–RAY EQUIPMENT REQUIRES HIGH CURRENTS FOR SHORT DURATION, WHILE THE SUPPLY VOLTAGE MUST REMAIN STABLE. REFER TO ELECTRICAL NOTES. GROUNDING MUST CONFORM TO THE CURRENT REQUIREMENTS FOR ELECTRICALLY SUSCEPTIBLE PATIENT AREAS.
7. NO ATTENTION HAS BEEN GIVEN TO SPECIFIC PLUMBING OR HVAC CONSIDERATIONS AFFECTED BY THE SCOPE OF THIS WORK. ENGINEERING DRAWINGS TO BE DONE BY OTHERS. ELECTRICAL AND MECHANICAL DESIGNERS SHALL BE REQUIRED TO REVIEW THESE DRAWINGS TO HELP THEM GAIN AN UNDERSTANDING OF THE CONCEPT OF THIS WORK AND TO HELP MINIMIZE CONFLICTING CONSTRUCTION EFFORTS. NO ATTENTION HAS BEEN GIVEN TO SPECIFIC BUILDING STRUCTURAL INTEGRITY. A PROFESSIONAL STRUCTURAL ENGINEER SHALL INSPECT FIELD CONDITIONS TO ENSURE THAT THE FACILITY SUPPORT STRUCTURE (I.E. WALLS, FLOORS, CEILINGS) CAN PROVIDE ADEQUATE SUPPORT FOR THE DIAGNOSTIC IMAGING EQUIPMENT DESCRIBED IN THE EQUIPMENT SCHEDULE. NO ATTENTION HAS BEEN GIVEN TO SPECIFIC SEISMIC ANCHORAGE CONSIDERATIONS AFFECTED BY THE SCOPE OF THIS WORK. ALL EXPENSES ASSOCIATED WITH SEISMIC TESTING AND COMPLIANCE SHALL BE THE RESPONSIBILITY OF THE CUSTOMER (END USER) OR THEIR RESPECTIVE CONTRACTOR OF CHOICE. IT IS STRONGLY RECOMMENDED THAT THE CUSTOMER CONSULTS WITH A PROFESSIONAL STRUCTURAL ENGINEER FAMILIAR WITH ALL PREVAILING SEISMIC REQUIREMENTS. ENGINEERING DRAWINGS BY OTHERS.
8. THE EQUIPMENT REPRESENTATIVES PRIOR TO CHANGES, MUST APPROVE DEVIATION FROM THESE PLANS IN WRITING.

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SAN JOSE, CA

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WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSION. CONTRACTORS SHALL VERIFY, AND BE RESPONSIBLE FOR, ALL DIMENSIONS AND CONDITIONS ON THE JOB. THIS OFFICE MUST BE NOTIFIED OF ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN BY THESE DRAWINGS. SHOP DETAILS MUST BE SUBMITTED TO THIS OFFICE FOR APPROVAL BEFORE PROCEEDING WITH FABRICATION.

ARCHITECT'S STAMP

LICENSED ARCHITECT
JESSE L. GIVEN
No. C-30772
REN. 03-31-2025
STATE OF CALIFORNIA

CONSULTANT'S STAMP

SANTA CLARA VALLEY MEDICAL CENTER
Hospital & Clinics

REVISIONS

| NO. | DATE | DESCRIPTION |
|---|---|---|
| | 12.29.22 | 1ST SUBMITTAL |
| 1 | 04.21.23 | 2ND SUBMITTAL |
| | 05.17.23 | 3RD SUBMITTAL |

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|---|---|
| Job No: | 22-0977 |
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| Drawn by: | FP |
| Reviewed by: | JV |

Sheet Name:

EQUIPMENT SPECIFICATIONS

DIGITAL IMAGING EQUIPMENT REPLACEMENT

Sheet No:

A5.0

1 HOLOGIC SELENIA - MAM 2 1M076

# HOLOGIC, INC.

## PRELIMINARY 'SELENIA DIMENSIONS' ROOM PLANS

## VALLEY MEDICAL CENTER
## MAMMO 1 / ROOM 1M078

## SAN JOSE, CA

DRAWING LEGEND

| SHEET | DESCRIPTION |
|---|---|
| 1.0 | COVER / TITLE |
| 2.0 | REVISED PRELIM. ROOM PLAN (OPTION 8) |
| 2.1 | REVISED PRELIM. ROOM PLAN (OPTION 9) |
| 3.2 | ELECTRICAL NOTES |
| 4.0 | GENERAL NOTES |

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## EQUIPMENT LEGEND
N/A = NOT AVAILABLE

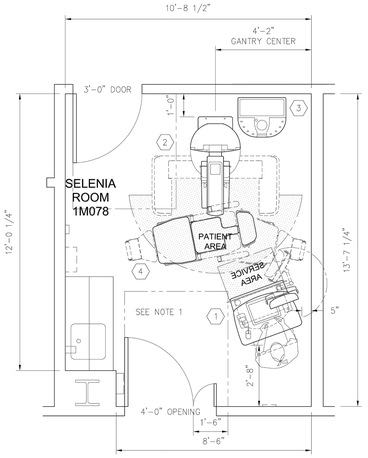
| ITEM | DESCRIPTION | BTU/HR | WT/LBS | WIDTH | DEPTH | HEIGHT |
|---|---|---|---|---|---|---|
| 1 | HOLOGIC 'SELENIA DIMENSIONS' UNIVERSAL ACQUISITION WORKSTATION (WITH SHIELD) | 4,740 TYPICAL | 460 209kg | 36.9"/ 53.4" 93.8cm | 25.4"/ 48.4" 122cm | 85.6" 217.5cm |
| 2 | HOLOGIC 'SELENIA DIMENSIONS' GANTRY WITH C-ARM | 6,800 MAX. | 897 * 407kg | 26"/66.5" 66/173cm | 51.6" 138cm | 87.8" 223cm |
| 3 | SUROS ATEC BREAST BIOPSY AND EXCISION SYSTEM (OPTIONAL – VERIFY) | N/A | 100 45kg | 25" 63cm | 21" 53cm | 37" 93cm |
| 4 | AKRUS 5010 MAMMOGRAPHY POSITIONING CHAIR (OPTIONAL – VERIFY) | – | 209.4 95kg | 29.9" 76cm | 66.1" 168cm | 56.7" 144cm |

* INCLUDES AFFIRM (APPROXIMATELY 15 LB), ATTACHED TO GANTRY.

NOTE 1: ALL RADIATION PROTECTION TO BE DESIGNED BY, OR APPROVED BY CUSTOMER'S LICENSED RADIATION PHYSICIST.
NOTE 2: EQUIPMENT INSTALLERS WILL USE EXISTING WIREWAYS WHEREVER POSSIBLE. HOSPITAL ENGINEERING DEPARTMENT TO PROVIDE HOLOGIC SITE PLANNING OFFICE WITH AS BUILT DRAWINGS, SHOWING WIREWAY LOCATIONS AND ROUTING ABOVE CEILING AND BELOW FLOOR.
NOTE 3: HOLOGIC STRONGLY RECOMMENDS REMOTE ACCESS VIA HOLOGIC CONNECT TO THE ACQUISITION WORKSTATION FOR REMOTE DIAGNOSTIC SUPPORT. CONSULT WITH HOLOGIC CONNECTIVITY SPECIALIST REGARDING REQUIREMENTS. RECOMMENDATION: SWITCH GIGABIT ETHERNET (1000 BASE–T).
NOTE 4: 'SELENIA DIMENSIONS' GANTRY POWER IS TO BE PERMANENTLY WIRED.
NOTE 5: IN ACCORDANCE WITH IEC–60601–1, A MINIMUM CLEARANCE OF 50CM (20") MUST BE MAINTAINED BETWEEN THE TUBE HEAD AT ANY POSITION OF ROTATION, AND ANY STATIONARY OBJECT (EXCLUDING FLOOR). IF THIS REQUIREMENT IS NOT MET, AUTO C–ARM ROTATION MUST BE DISABLED AT THE TIME OF INSTALLATION.

## SITE CONDITIONS FOR SELENIA DIMENSIONS SYSTEM

| | |
|---|---|
| MINIMUM RECOMMENDED ROOM SIZE | 9'–0" X 12'–0" |
| MINIMUM CEILING HEIGHT | 8'–0" A.F.F. |
| RECOMMENDED CEILING HEIGHT | 9'–0" A.F.F. |
| OPERATING TEMPERATURE RANGE (MAINTAIN TEMPERATURE RANGE 24 HRS./DAY, 7 DAYS/WK.) | 68 – 86° F (20–30° C) 77° F – ROOM TEMP FOR OPTIMAL PERFORMANCE. MAXIMUM ALLOWABLE TEMPERATURE CHANGE RATE OF 10° C PER HOUR. |
| OPERATING HUMIDITY RANGE | 20 – 80% , NON CONDENSING. |
| STORAGE TEMPERATURE (SYSTEM POWERED DOWN OR IN STORAGE) | 50 – 104° F – GANTRY, EXCLUDING DETECTOR ASSY. 59 – 86° F – DETECTOR ASSEMBLY 14 – 104° F – ACQUISITION WORKSTATION |
| ELECTROMAGNETIC INTERFERENCE | REFER TO SITE PLANNING GUIDE FOR SPECIFICATIONS |
| EQUIPMENT ENTRY REQUIREMENTS | |
| GANTRY SHIPPING CRATE | 38" x 66" x 88" (97 cm x 168 cm x 224 cm) |
| ACQUISITION WORKSTATION SHIPPING CRATE | N/A |
| MINIMUM ENTRANCE | 2'–6" x 7'–0" (76 cm x 213 cm) |
| RECOMMENDED ENTRANCE | 3'–0" x 7'–0" (91 cm x 213 cm) |




## 'SELENIA DIMENSIONS' EQUIPMENT PLAN
OPTION 8

PRIOR TO INSTALLATION, THIS ROOM MUST BE TESTED BY HOLOGIC FOR POTENTIAL ELECTROMAGNETIC INTERFERENCE

NOTE: THE EQUIPMENT LAYOUT, ROOM DIMENSIONS, ELECTRICAL AND MECHANICAL DETAILS, ARE BASED ON THE BEST INFORMATION AVAILABLE FROM THE SITE, IN ADDITION TO THE CUSTOMER'S KNOWN REQUIREMENTS. ARCHITECTURAL OR ELECTRICAL CHANGES, INCLUDING RELOCATION OF EQUIPMENT ILLUSTRATED IN THIS DRAWING, ARE ALLOWED ONLY WITH NOTIFICATION IN WRITING, AND REVIEW BY HOLOGIC SERVICE DEPT.. HOLOGIC RESERVES THE RIGHT TO MAKE CHANGES BASED ON CUSTOMER'S WISHES, CONSTRUCTION PROBLEMS, ETC.

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## ELECTRICAL USE REQUIREMENTS

| REQUIREMENT | GANTRY | ACQUISITION WORKSTATION |
|---|---|---|
| INPUT LINE VOLTAGE<br>INPUT CURRENT<br>FREQUENCY<br>NUMBER OF PHASES | 200, 208, 220, 230, 240VAC, 50–60 HZ, SINGLE PHASE 40 AMP, HACR OR UL 489 RATED CIRCUIT BREAKER / DISCONNECT.<br>THE SELENIA DIMENSIONS GANTRY TO BE PERMANENTLY WIRED ONLY. | 100, 120 VAC/220, 230, 240VAC 3.5 A/2.0A 50–60 HZ, SINGLE PHASE<br><br>HOSPITAL GRADE RECEPTACLE REQUIRED |

## PHYSICAL AND ENVIRONMENTAL REQUIREMENTS

| | | |
|---|---|---|
| OPERATING TEMPERATURE RANGE (MAINTAIN TEMPERATURE RANGE 24 HRS./DAY, 7 DAYS/WK.) | 68 – 86° F (20–30° C) / 77° F – ROOM TEMP FOR OPTIMAL PERFORMANCE MAXIMUM ALLOWABLE TEMPERATURE CHANGE RATE OF 10° C PER HOUR. | |
| OPERATING HUMIDITY RANGE | 20 – 80% , NON CONDENSING. | |
| STORAGE TEMPERATURE (SYSTEM POWERED DOWN, OR IN STORAGE) | 50 – 104° F (10 – 40° C) – GANTRY, EXCLUDING DETECTOR ASSEMBLY<br>59 – 86° F (15 – 30° C) – DETECTOR ASSEMBLY<br>14 – 104° F (–10 – 40° C) – ACQUISITION WORKSTATION | |
| ELECTROMAGNETIC INTERFERENCE | REFER TO SITE PLANNING GUIDE FOR SPECIFICATIONS | |
| MAXIMUM SEPARATION FROM IMAGE RECEPTOR | N/A | 12.2M (40') |
| OVERALL DIMENSIONS | 26"W x 35"D x 88"H * (66cm x 89cm x 224cm) | 53.4"W x 48.4"D x 80.3"H (135.6cm x 122cm x 204cm) |

### NETWORKING NOTES:

SUPPLYING AND INSTALLING NETWORK CONNECTIONS BETWEEN DIAGNOSTIC IMAGING EQUIPMENT AND OTHER NODE CONNECTIONS SHALL BE THE CUSTOMER'S RESPONSIBILITY. CUSTOMER MUST SPECIFY, SUPPLY AND INSTALL PROPER RECEPTACLES, AUI TRANSCEIVERS, CABLING, REPEATERS, ROUTERS, MODEMS, ETC. WHICH ARE CONSISTENT WITH THE SITE NEEDS AND SOUND NETWORK IMPLEMENTATION PRACTICES. ALSO INCLUDED, BUT NOT LIMITED TO, THE CUSTOMER'S RESPONSIBILITY IS THE PURCHASE AND INSTALLATION OF CONDUITS, RACEWAYS FOR CONTAINMENT AND ROUTING OF NETWORKING CABLES, AS DETERMINED BY SITE CONDITIONS, OR REQUIRED BY PREVAILING CODES.

## MAMMOGRAPHY SYSTEM SPECIFICATIONS:

### SYSTEM

| | |
|---|---|
| INPUT LINE | 200–240VAC, (±10%), 65 AMP MAX. FOR 5 SECOND DURATION AT 208VAC, 50–60HZ |

### GENERATOR

| | |
|---|---|
| TYPE | CONSTANT POTENTIAL HIGH FREQUENCY, INVERTER TYPE |
| RATING | 7.0 kW, MAX. (ISOWATT), 200 mA AT 35 kV |
| kV RANGE | 20 kV TO 49 kV IN 1 kV INCREMENTS |
| mAs RANGE | 3.0 mAs TO 500 mAs |
| mA RANGE | 10 mA TO 200 mA, LARGE FOCAL SPOT<br>10 mA TO 50 mA, SMALL FOCAL SPOT |

### C-ARM ASSEMBLY

| | |
|---|---|
| VERTICAL TRAVEL | 71 CM TO 142 CM (27.8" TO 56") MOTORIZED |
| ROTATION | +195° TO –155° CONVENTIONAL MAMMOGRAPHY<br>+180° TO –140° BIOPSY, TOMOSYNTHESIS |
| SID | 70 CM |
| PATIENT FACE SHIELD | REMOVABLE, RETRACTABLE |

### RADIATION SHIELD

| | |
|---|---|
| H x W | 203 CM x 86 CM (80" x 34") |
| LEAD EQUIVALENCE | 0.5 MM |
| MATERIAL | LEADED ACRYLIC |

### UL LISTING NOTE

THE 'SELENIA DIMENSIONS' SYSTEM IS UL APPROVED 'AS A SYSTEM'. THE GANTRY AND CONSOLE ARE NOT CONSIDERED TO BE INDEPENDANT COMPONENTS (BY UL). A SINGLE UL CERTIFICATION LABEL HAS BEEN PROVIDED BY UL, AND IS AFFIXED TO THE AWS CONSOLE.

### SUPPLEMENTAL NOTES

ALL ITEMS LISTED BELOW ARE TO BE PROVIDED / DESIGNED BY THE ARCHITECT. THE ARCHITECT SHALL CONSULT WITH THE CUSTOMER FOR ANY ADDITIONAL INFORMATION.

1. RECOMMEND INCANDESCENT OR LED, AS WELL AS FLUORESCENT LIGHT FIXTURES. THE INCANDESCENT OR LED FIXTURES SHOULD BE DISTRIBUTED AROUND THE ROOM. HOLOGIC RECOMMENDS AGAINST THE USE OF DIMMER CONTROLS, AS THEY CAN CAUSE ISSUES WITH EMI INTERFERENCE.
2. IT IS RECOMMENDED THAT ALL DIAGNOSTIC ROOMS SHOULD HAVE TILE OR VINYL FLOORING.
3. A TILE DROP CEILING IS RECOMMENDED FOR ANY DIAGNOSTIC ROOMS.
4. ALL CABINETRY WORK IS TO BE DESIGNED AND PROVIDED BY THE ARCHITECT. RECOMMEND ALL COUNTERS HAVE ROUNDED CORNERS.

### GROUNDING NOTES

* FIELD VERIFY ACTUAL APPLICATION WITH LOCAL LICENCED ELECTRICIAN.

THE SOURCE GROUND CONNECTION FOR THIS SYSTEM WILL BE THE GROUND SIDE OF THE NEUTRAL TO GROUND BONDING POINT FOR THE POWER DELIVERED TO THIS SYSTEM. THE SOURCE WILL BE EITHER THE MAIN SERVICE ENTRANCE PANEL OR A SEPARATELY DERIVED SOURCE, SUCH AS AN ISOLATION TRANSFORMER. SYSTEM LOCALIZED COLD WATER PIPING OR BUILDING STEEL ARE NOT ACCEPTABLE GROUND SOURCE CONNECTION POINTS. THE SOURCE GROUND CONDUCTOR SHALL BE OF THE SAME SIZE AND TYPE AS THE PHASE CONDUCTORS SUPPLYING THE SYSTEM. REFER TO LOCAL AND NATIONAL ELECTRICAL CODES FOR GROUNDING REQUIREMENTS.

### WIRING NOTES

ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL CONDUITS, WIRE, WIREWAYS, DISTRIBUTION TRANSFORMERS, JUNCTION BOXES, ENCLOSURES, CIRCUIT BREAKERS, ETC. ALL WIRES TO BE THHN TYPE, STRANDED COPPER UNLESS OTHERWISE SPECIFIED. THE ELECTRICAL CONTRACTOR SHALL SUPPLY LUG PAIRS OF #8 OR GREATER FOR ALL CABLES LISTED WITHIN THE SCOPE OF THIS WORK. CONDUIT AND DUCT RUNS ARE SHOWN SCHEMATICALLY. ACTUAL BUILDING CONDITIONS WILL DETERMINE CONDUIT AND DUCT ROUTES. CONDUIT TURNS TO HAVE LARGE SWEEPING BENDS WITH MINIMUM RADIUS AS SPECIFIED IN NEC ART. 346–10. IF LARGE BENDS IN CONDUIT ARE NOT POSSIBLE, USE SERVICE ENTRANCE ELBOW CONNECTORS TO AVOID DAMAGE TO CABLE. ELECTRICAL CONTRACTOR TO PROVIDE 10'–0" TAILS FOR ALL WIRES UNLESS OTHERWISE SPECIFIED AND IDENTIFY BOTH ENDS OF ALL WIRES. ELECTRICAL CONTRACTOR SHALL MAKE EVERY EFFORT TO ENSURE THAT POINT TO POINT CONDUIT RUNS ARE AS SHORT AS FIELD CONDITIONS ALLOW. LEAVE PULL WIRE IN EMPTY CONDUITS. WORK SHALL COMPLY WITH REGULATORY AGENCIES OF JURISDICTION AS SUCH AGENCIES SUPERSEDE THESE DRAWINGS AND MUST BE ADHERED TO. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR SCRUTINIZING THESE DRAWINGS AND SHALL MAKE CORRECTIONS ACCORDING TO PREVAILING CODES. NOTE: CONDUITS MAY BE INCREASED IN SIZE BUT NEVER DECREASED WITHOUT CONSENT FROM THE EQUIPMENT REPRESENTATIVES. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING THE PATIENT GROUNDING NETWORK PER NATIONAL ELECTRIC CODE ARTICLE 517 AND NFPA 70. ALL CONDUIT SHALL BE RIGID TYPE UNLESS SPECIFIED OTHERWISE IN THIS DRAWING SET. ALL CONDUIT RUNS EXPOSED TO WET ENVIRONMENTS SHALL BE MADE LIQUID TIGHT. (e.g. UNDERGROUND, ETC.) ALL FLUSH MOUNTED ELECTRICAL BOXES AND WIRE TROUGHS SHALL HAVE OVERSIZED COVER PLATES. ALL FLUSH MOUNTED ELECTRICAL BOXES AND WIRE TROUGHS EXPOSED TO A WET ENVIRONMENT SHALL BE MADE LIQUID TIGHT. (e.g. IN FLOOR, ETC.) THE ELECTRICAL CONTRACTOR SHALL INSTALL, PROVIDE POWER TO AND CONNECT THE FOLLOWING IF REQUIRED: THE "X–RAY IN USE" WARNING SIGN; THE 120VAC, 15AMP RECEPTACLE; THE DOOR INTERLOCK SWITCH; THE EMERGENCY OFF SWITCH; AND THE 120VAC, DUPLEX OUTLETS FOR SERVICE AND HOUSEKEEPING.

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### GENERAL NOTES

1. THE DRAWINGS AND SPECIFICATIONS CONTAINED IN THIS PACKAGE ARE DESIGNED TO CONFORM TO STRUCTURAL FEATURES AND EQUIPMENT REQUIREMENTS PRESENTED AT THE TIME OF THEIR PREPARATION. HOWEVER, SINCE THESE FACTORS ARE SUBJECT TO DESIGN MODIFICATIONS, THE DRAWINGS ARE NOT TO BE USED AS CONSTRUCTION DOCUMENTS. CONSTRUCTION PLANS ARE THE RESPONSIBILITY OF THE CUSTOMER'S ARCHITECT OR ENGINEER, WHO SHALL SEE THAT ALL APPLICABLE CODES AND REGULATIONS ARE COMPLIED WITH. ANY CHANGES MUST BE BROUGHT TO THE ATTENTION OF THE HOLOGIC PLANNING OFFICE OR THE OFFICE OF THE MANUFACTURER'S REPRESENTATIVE SUPERVISING THE PRE–INSTALLATION WORK SITE. ALL FINAL DRAWINGS MUST BE SUBMITTED TO HOLOGIC FOR REVIEW.
2. ALL DIMENSIONS ARE GIVEN FROM FINISHED SURFACES. WHERE DIMENSIONS ARE NOT GIVEN, FIELD MEASUREMENTS SHOULD BE TAKEN. ALL EXISTING CONDITIONS ARE TO BE VERIFIED BY THE CUSTOMER'S CONTRACTOR, AND ANY DISCREPANCIES SHOULD BE BROUGHT TO THE ATTENTION OF THE HOLOGIC PLANNING OFFICE.
3. EQUIPMENT PURCHASER SHALL, AT HIS EXPENSE, PROVIDE THE NECESSARY LABOR AND MATERIAL FOR ANY PLUMBING, CARPENTRY, STRUCTURAL AND ELECTRICAL WORK SUCH AS REINFORCEMENT, CONDUITS, WIREWAYS, SWITCHES, ETC., WHICH MAY BE REQUIRED FOR THE INSTALLATION OF X–RAY ROOM EQUIPMENT. HOLOGIC ASSUMES NO RESPONSIBILITY FOR ANY CONSTRUCTION COSTS WHETHER OR NOT RELATED TO THE INSTALLATION OF OUR EQUIPMENT NO WORK MAY BE PERFORMED OR MATERIALS FURNISHED AT OUR EXPENSE, UNLESS AUTHORIZED BY A SIGNED, FORMAL HOLOGIC PURCHASE ORDER
4. THE CUSTOMER, AT HIS EXPENSE, SHALL EMPLOY A REGISTERED PHYSICIST TO SPECIFY RADIATION PROTECTION.
5. THE CUSTOMER'S ARCHITECT SHALL VERIFY THAT ALL DOOR AND PASSAGE SIZES ARE ADEQUATE FOR DELIVERY OF EQUIPMENT FROM EXTERIOR, INTO THE ROOM. IF PROFESSIONAL RIGGING SERVICES ARE REQUIRED, THESE SHALL BE PROVIDED AT THE CUSTOMER'S EXPENSE.
6. ALL NEW FINISHED FLOOR SURFACES SHOULD BE LEVEL. THE FLOOR AREA UNDER THE EQUIPMENT BASES, EXTENDING 3'–0" IN ALL DIRECTIONS AROUND EACH BASE, MUST BE LEVELLED, USING A CARPENTER'S LEVEL OF APPROPRIATE LENGTH, TO WITHIN 1/16".
7. THE CUSTOMER'S CONTRACTOR SHALL OBTAIN ALL PERMITS NECESSARY FOR CONSTRUCTION.
8. THE DELIVERY AND INSTALLATION OF RADIOLOGY EQUIPMENT, SHALL NOT COMMENCE UNTIL HOLOGIC HAS RECEIVED NOTIFICATION BY THE CUSTOMER OR HIS ARCHITECT, THAT THE CONSTRUCTION PHASE HAS BEEN COMPLETED AND THE ENVIRONMENT IS CLEAN AND DUST FREE.
9. ALL BUILDING UTILITIES SERVICING THE SITE SHALL BE OPERATIONAL.
10. THE CUSTOMER AND A HOLOGIC REPRESENTATIVE SHALL INSPECT AND ACCEPT THE ROOM BEFORE WORK BEGINS ON THE INSTALLATION OF EQUIPMENT. IF ROOM PREPARATION IS INCOMPLETE OR INCORRECT, THE CUSTOMER'S CONTRACTOR IS RESPONSIBLE FOR THE COST OF CORRECTING ANY PROBLEMS.
11. AS THIS DRAWING CONTAINS CONFIDENTIAL AND PROPRIETARY INFORMATION, THE CUSTOMER, IN ACCEPTING THIS DRAWING, AGREES NOT TO REPRODUCE, OR DISTRIBUTE IT TO OTHERS, OR TO USE THE INFORMATION CONTAINED THEREIN, IN ANY MANNER DETRIMENTAL TO HOLOGIC SYSTEMS DIVISION.

### ARCHITECTURAL NOTES

1. THIS SET OF DRAWINGS IS FOR THE PURPOSE OF A LAYOUT PLAN ONLY – NOT FOR CONSTRUCTION. THESE DRAWINGS ARE FOR THE BENEFIT OF PURCHASER'S ARCHITECT OF CHOICE. THE ARCHITECT AND BUILDING CONTRACTORS SHALL CONVERT THIS LAYOUT INTO WORKING AND CONSTRUCTION DRAWINGS OBSERVING ALL PREVAILING CODES. THESE DRAWINGS ARE INTENDED TO PROVIDE THE CONSTRUCTION PARTICIPANTS WITH SPECIFICATION AND CONCEPTUAL INFORMATION ONLY. EVERY EFFORT HAS BEEN MADE TO CONFORM DETAILS TO THE ACTUAL EQUIPMENT EXPECTED TO BE INSTALLED. THESE PLANS HAVE BEEN SCALED FROM PRINTS OR ARCHITECTURAL DRAWINGS BY OTHERS, OR FROM SKETCHES RECEIVED FROM FIELD SERVICE ENGINEERS UPON COMPLETION OF THE SITE SURVEY. HOLOGIC IS NOT LIABLE FOR ERRORS OR OMISSIONS. ALL CONSTRUCTION PARTICIPANTS SHALL VERIFY AND ADJUST DIMENSIONS. CRITICAL DIMENSIONAL RELATIONSHIPS HAVE BEEN SUPPLIED. IT IS THE RESPONSIBILITY OF ALL CONSTRUCTION PARTICIPANTS TO ADHERE TO THESE DISTANCES. ALL DIMENSIONS ARE FROM FINISHED SURFACES UNLESS OTHERWISE NOTED. RECOMMEND THE CUSTOMER'S CONTRACTOR COORDINATE WITH THE LOCAL HOLOGIC INSTALLER TO VERIFY THAT ALL DOOR AND PASSAGEWAY SIZES ARE ADEQUATE FOR TRANSPORTING EQUIPMENT FROM EXTERIOR OF BUILDING INTO RESPECTIVE ROOMS. RECOMMEND COVERING OR REMOVING THRESHOLDS. THOSE MAKING USE OF, OR RELYING ON THIS MATERIAL ASSUME ALL RISKS AND LIABILITY ARISING FROM SUCH USE OR RELIANCE. ALL CONSTRUCTION SHALL COMPLY WITH BUILDING CODES AND REGULATIONS THAT HAVE JURISDICTION.
2. ALL SUPPLY DIFFUSERS SHALL NOT CAUSE DIRECT AIR CURRENTS ON PATIENTS OR OPERATORS. RECOMMEND 2' X 4' LAY–IN CEILING PANELS OF MATERIAL ACCEPTABLE TO CUSTOMER, AND APPROVED PER PREVAILING CODES. LIGHTING FIXTURES, VENTS, ETC. TO BE FLUSH WITH FINISHED CEILING. RECOMMEND INCANDESCENT OR LED, AS WELL AS FLUORESCENT LIGHT FIXTURES. THE INCANDESCENT OR LED FIXTURES SHOULD BE DISTRIBUTED AROUND THE ROOM. HOLOGIC RECOMMENDS AGAINST THE USE OF DIMMER CONTROLS, AS THEY CAN CAUSE ISSUE WITH EMI INTERFERENCE.
3. ARCHITECT AND ENGINEERS SHALL USE EXISTING ELECTRICAL AND STRUCTURAL ITEMS WHEN FEASIBLE.
4. ALL WORK EXCEPT INSTALLATION OF HOLOGIC SUPPLIED DIAGNOSTIC IMAGING EQUIPMENT IS TO BE DONE BY OTHERS.
5. SOME CONVENIENCES MAY BE REQUIRED BY CODE OR DESIRED BY CUSTOMER IN EACH RESPECTIVE ROOM (I.E., CASSETTE STORAGE, ILLUMINATORS, CABINETS, SINKS, AND COUNTER SPACE). PLEASE CONSULT WITH CUSTOMER WITH REGARDS TO DESIRED CONVENIENCES.
6. ELECTRICAL POWER FOR X–RAY EQUIPMENT REQUIRES HIGH CURRENTS FOR SHORT DURATION, WHILE THE SUPPLY VOLTAGE MUST REMAIN STABLE. REFER TO ELECTRICAL NOTES. GROUNDING MUST CONFORM TO THE CURRENT REQUIREMENTS FOR ELECTRICALLY SUSCEPTIBLE PATIENT AREAS.
7. NO ATTENTION HAS BEEN GIVEN TO SPECIFIC PLUMBING OR HVAC CONSIDERATIONS AFFECTED BY THE SCOPE OF THIS WORK. ENGINEERING DRAWINGS TO BE DONE BY OTHERS. ELECTRICAL AND MECHANICAL DESIGNERS SHALL BE REQUIRED TO REVIEW THESE DRAWINGS TO HELP THEM GAIN AN UNDERSTANDING OF THE CONCEPT OF THIS WORK AND TO HELP MINIMIZE CONFLICTING CONSTRUCTION EFFORTS. NO ATTENTION HAS BEEN GIVEN TO SPECIFIC BUILDING STRUCTURAL INTEGRITY. A PROFESSIONAL STRUCTURAL ENGINEER SHALL INSPECT FIELD CONDITIONS TO ENSURE THAT THE FACILITY SUPPORT STRUCTURE (I.E. WALLS, FLOORS, CEILINGS) CAN PROVIDE ADEQUATE SUPPORT FOR THE DIAGNOSTIC IMAGING EQUIPMENT DESCRIBED IN THE EQUIPMENT SCHEDULE. NO ATTENTION HAS BEEN GIVEN TO SPECIFIC SEISMIC ANCHORAGE CONSIDERATIONS AFFECTED BY THE SCOPE OF THIS WORK. ALL EXPENSES ASSOCIATED WITH SEISMIC TESTING AND COMPLIANCE SHALL BE THE RESPONSIBILITY OF THE CUSTOMER (END USER) OR THEIR RESPECTIVE CONTRACTOR OF CHOICE. IT IS STRONGLY RECOMMENDED THAT THE CUSTOMER CONSULTS WITH A PROFESSIONAL STRUCTURAL ENGINEER FAMILIAR WITH ALL PREVAILING SEISMIC REQUIREMENTS. ENGINEERING DRAWINGS BY OTHERS.
8. THE EQUIPMENT REPRESENTATIVES PRIOR TO CHANGES, MUST APPROVE DEVIATION FROM THESE PLANS IN WRITING.

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ENGINEERING NUMBER | DRAWING NUMBER | SHEET
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VALLEY MEDICAL CENTER
REVISED PRELIM. ROOM PLAN
SAN JOSE, CA
THESE DRAWINGS ARE FOR REVIEWING PURPOSES ONLY

DATE: 03-30-23
SCALE: 3/8"=1'-0"
DRAWN BY:
CHECKED BY:
PROJECT NO: 23185P4
SHEET NO: 4.0

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**HCAi USE**

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ARCHITECT'S STAMP

LICENSED ARCHITECT
JESSE L. GIVEN
NO. C-30772
REN. 05-31-2025
STATE OF CALIFORNIA

CONSULTANT'S STAMP

SANTA CLARA VALLEY MEDICAL CENTER
Hospital & Clinics

## REVISIONS

| NO. | DATE | DESCRIPTION |
|---|---|---|
| | 12.29.22 | 1ST SUBMITTAL |
| 1 | 04.21.23 | 2ND SUBMITTAL |
| | 05.17.23 | 3RD SUBMITTAL |

HCAi #: S222248-43-00

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|---|---|
| Job No: | 22-0977 |
| Scale: | NTS |
| Drawn by: | FP |
| Reviewed by: | JV |

Sheet Name:

EQUIPMENT SPECIFICATIONS

DIGITAL IMAGING EQUIPMENT REPLACEMENT

Sheet No:

A5.1

# HOLOGIC, INC.

## 'AFFIRM' PRONE BIOPSY SYSTEM
## FINAL ROOM PLANS

## VALLEY MEDICAL CENTER
## STEREO / ROOM 1M130

## SAN JOSE, CA

DRAWING LEGEND

| SHEET | DESCRIPTION |
|---|---|
| 1.0 | COVER / TITLE |
| 2.0 | FINAL ROOM PLAN |
| 2.1 | STRUCTURAL PLAN |
| 3.0 | ELECTRICAL PLAN |
| 3.1 | ELECTRICAL DETAILS |
| 3.2 | ELECTRICAL NOTES |
| 4.0 | GENERAL NOTES |
| 4.1 | EQUIPMENT DETAILS |

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VALLEY MEDICAL CENTER
REVISED FINAL ROOM PLAN
SAN JOSE, CA

THESE DRAWINGS ARE FOR REVIEWING PURPOSES ONLY

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SCALE: 3/8"=1'-0"
DRAWN BY: FP
CHECKED BY: JV

PROJECT NO: 23184F1
SHEET NO: 1.0

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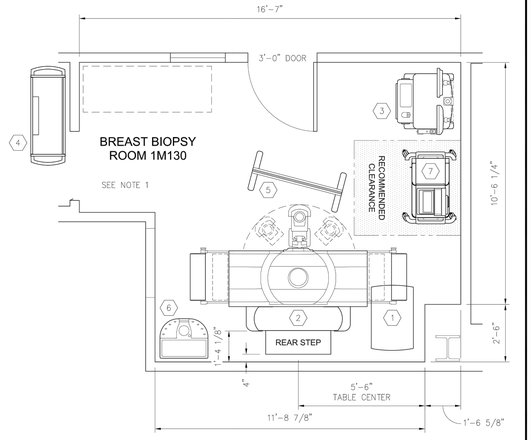
| EQUIPMENT LEGEND (N/A = NOT AVAILABLE) | | | | | | |
|---|---|---|---|---|---|---|
| ITEM | DESCRIPTION | BTU/HR | WT/LBS | WIDTH | DEPTH | HEIGHT |
| 1 | HOLOGIC 'AFFIRM' PRONE BIOPSY SYSTEM GENERATOR | < 5,700 | 300 136kg | 34" 87cm | 22" 55cm | 25" 63cm |
| 2 | HOLOGIC 'AFFIRM' PRONE BIOPSY SYSTEM TABLE | | 980 445kg | 90" 229cm | 70–78" 178 – 198cm | 42" 107cm |
| 3 | HOLOGIC 'AFFIRM' PRONE BIOPSY SYSTEM ACQUISITION WORKSTATION | | 252 114kg | 34" 85.4cm | 30" 75.1cm | 54.5 – 70.5" 179.1cm |
| 4 | HOLOGIC 'AFFIRM' PRONE BIOPSY SYSTEM ACCESSORY CART | – | N/A | 51.6" 131.2cm | 18" 45.7cm | 31.7" 80.6cm |
| 5 | CUSTOMER SUPPLIED / INSTALLED MOBILE X-RAY BARRIER | – | N/A | N/A | N/A | N/A |
| 6 | SUROS ATEC BREAST BIOPSY AND EXCISION SYSTEM | N/A | 100 45kg | 25" 63cm | 21" 53cm | 37" 93cm |
| 7 | HOLOGIC TRIDENT SPECIMEN RADIOGRAPHIC SYSTEM | 1,536 MAX | 325 147kg | 37.5" 95.3cm | 26.5" 67.5cm | 67.3" 171cm |

NOTE 1: ALL RADIATION PROTECTION TO BE DESIGNED BY, OR APPROVED BY CUSTOMER'S LICENSED RADIATION PHYSICIST.
NOTE 2: EQUIPMENT INSTALLERS WILL USE EXISTING WIREWAYS WHEREVER POSSIBLE. HOSPITAL ENGINEERING DEPARTMENT TO PROVIDE HOLOGIC SITE PLANNING OFFICE WITH AS BUILT DRAWINGS, SHOWING WIREWAY LOCATIONS AND ROUTING ABOVE CEILING AND BELOW FLOOR.
NOTE 3: HOLOGIC STRONGLY RECOMMENDS REMOTE ACCESS VIA HOLOGIC CONNECT TO THE ACQUISITION WORKSTATION FOR REMOTE DIAGNOSTIC SUPPORT. CONSULT WITH HOLOGIC CONNECTIVITY SPECIALIST REGARDING REQUIREMENTS. RECOMMENDATION: SWITCH GIGABIT ETHERNET (1000 BASE–T).
NOTE 4: 'AFFIRM' PRONE BIOPSY SYSTEM GENERATOR POWER IS TO BE PERMANENTLY WIRED.

| SITE CONDITIONS FOR 'AFFIRM' PRONE BIOPSY SYSTEM | |
|---|---|
| MINIMUM RECOMMENDED ROOM SIZE | 12'–0" X 12'–0" |
| MINIMUM RECOMMENDED CEILING HEIGHT | 8'–0" A.F.F. |
| OPERATING TEMPERATURE RANGE | 50 – 86° F (10 – 30° C) |
| STORAGE/TRANSPORT TEMP. RANGE | 50 – 95° F (10 – 35° C) |
| RELATIVE HUMIDITY RANGE | 10 – 80%, NON CONDENSING |
| ELECTROMAGNETIC INTERFERENCE | REFER TO SITE PLANNING GUIDE FOR SPECIFICATIONS |
| EQUIPMENT ENTRY REQUIREMENTS | |
| MINIMUM ENTRANCE | 2'–6" x 6'–6" (76 cm x 203 cm) |
| RECOMMENDED ENTRANCE | 3'–0" x 7'–0" (91 cm x 213 cm) |

NOTE: THE EQUIPMENT LAYOUT, ROOM DIMENSIONS, ELECTRICAL AND MECHANICAL DETAILS, ARE BASED ON THE BEST INFORMATION AVAILABLE FROM THE SITE, IN ADDITION TO THE CUSTOMER'S KNOWN REQUIREMENTS. ARCHITECTURAL OR ELECTRICAL CHANGES, INCLUDING RELOCATION OF EQUIPMENT ILLUSTRATED IN THIS DRAWING, ARE ALLOWED ONLY WITH NOTIFICATION IN WRITING, AND REVIEW BY HOLOGIC SERVICE DEPT. HOLOGIC RESERVES THE RIGHT TO MAKE CHANGES BASED ON CUSTOMER'S WISHES, CONSTRUCTION PROBLEMS, ETC.




'AFFIRM' PRONE BIOPSY SYSTEM EQUIPMENT PLAN

PRIOR TO INSTALLATION, THIS ROOM MUST BE TESTED BY HOLOGIC FOR POTENTIAL ELECTROMAGNETIC INTERFERENCE

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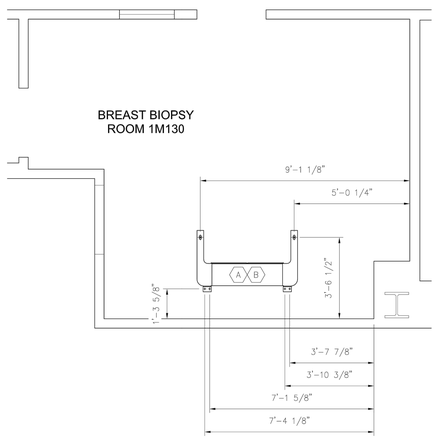
NOTE:
BOLT HOLE LOCATIONS ARE APPROXIMATE, AND REPRESENT THE RECOMMENDED LOCATIONS FOR EQUIPMENT PLACEMENT. CUSTOMER IS RESPONSIBLE FOR ENSURING FLOOR CONDITIONS DO NOT PREVENT EQUIPMENT ANCHORAGE AS SHOWN. ACTUAL LOCATION MAY CHANGE DUE TO SITE CONDITIONS, CUSTOMER PREFERENCES, OR OTHER FACTORS.

IT IS THE RESPONSIBILITY OF THE CUSTOMER, OR THEIR AGENTS TO VERIFY THAT THE FLOOR IS CAPABLE OF SUPPORTING THE EQUIPMENT FLOOR LOADING, AND ANCHORAGE REQUIREMENTS. ADDITIONAL BLOCKING OR BRACING MAY BE REQUIRED WHEN WOOD FLOORS ARE PRESENT. HOLOGIC IS NOT LIABLE FOR ANY DAMAGE OR INJURY CAUSED BY INSTALLATION IN ANY LOCATION WITH INADEQUATE FLOOR LOADING CONDITIONS.

| STRUCTURAL LEGEND | |
|---|---|
| ITEM | DESCRIPTION |
| A | FOOT PRINT OF 'AFFIRM' PRONE BIOPSY TABLE BASE. TABLE BASE SUPPLIED, INSTALLED BY HOLOGIC, INC. (2X) 11/16" DIA. MOUNTING HOLES (FRONT). (4X) 7/16" DIA. MOUNTING HOLES (REAR – SEISMIC MOUNTING KIT REQUIRED). MINIMUM TABLE FLOOR LOADING: 210 LB/FT$^2$ |
| B | FLOOR SURFACE TO BE LEVELED TO WITHIN .+OR– 1/16" OVER LENGTH OF 'AFFIRM' TABLE BASE. * CUSTOMER / CONTRACTOR RESPONSIBILITY |
| | ANCHORAGE, AND DRILLING OF HOLES FOR EQUIPMENT ANCHORAGE IS THE RESPONSIBILITY OF THE CUSTOMER / CONTRACTOR. COORDINATE WITH LOCAL HOLOGIC INSTALLER. |
| | SEISMIC CALCULATION DOCUMENTS ARE AVAILABLE ON REQUEST FOR ADDITIONAL FLOOR LOADING INFORMATION. CONTACT REGIONAL PROJECT MANAGER, SITE PLANNING DEPARTMENT, SALES REPRESENTATIVE, OR LOCAL FIELD ENGINEER TO OBTAIN THIS INFORMATION. |




STRUCTURAL PLAN

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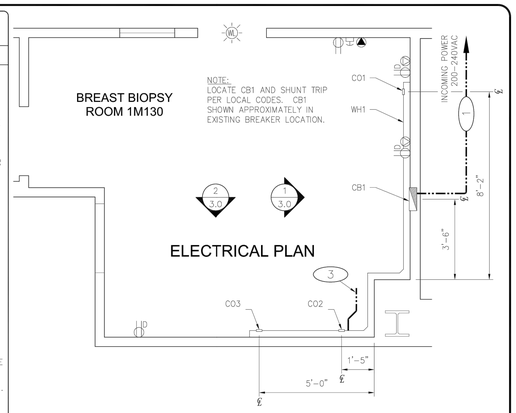
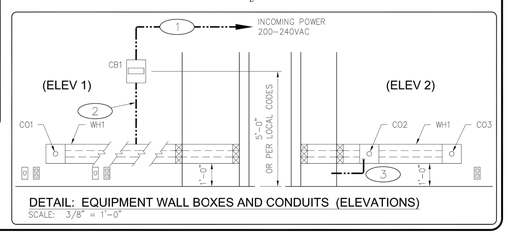
| ELECTRICAL LEGEND (SUPPLIED AND INSTALLED BY HOSPITAL'S ELECTRICAL CONTRACTOR) | |
|---|---|
| ITEM | DESCRIPTION |
| CB1 | DEDICATED CIRCUIT BREAKER/DISCONNECT WITH REMOTE EMERGENCY OFF SHUNT TRIP. (SHUNT TRIP USED ONLY WHERE REQUIRED BY LOCAL CODE OR CUSTOMER) SUPPLY 200–240 VAC, 50–60 HZ, SINGLE PHASE, 40 AMP, HACR OR UL 489 LISTED CIRCUIT BREAKER / DISCONNECT. PROVIDE (2) CONDUCTOR #8 AWG WIRES, AND (1) #8 AWG GROUND WIRE FROM "CB1" TO "WH1" WITH 36" NON–TERMINATED PIGTAIL EXTENDING FROM "WH1" NEAR GENERATOR. PROVIDE CONDUIT TO "WH1", SIZED PER CODE. MAXIMUM LINE IMPEDANCE NOT TO EXCEED: 0.20 OHMS FOR 208, 220, 230, 240VAC, 0.16 OHMS FOR 200VAC (EC 601–2–7, TABLE 101). SEE ELECTRICAL SPECIFICATIONS SHEET 3.2. LOCATE PER LOCAL CODE. GENERATOR TO BE PERMANENTLY WIRED. THE CONNECTION OF CUSTOMER SUPPLIED POWER WIRES TO THE GENERATOR IS TO BE PERFORMED BY CUSTOMER'S LICENSED ELECTRICIAN. |
| WH1 | HORIZONTAL SURFACE WIREWAY, 10" x 3 1/2", WITH REMOVABLE COVERS. BOTTOM OF WIREWAY 12" A.F.F. PROVIDE TWO EQUALLY SPACED DIVIDERS THROUGH–OUT WIREWAY. MUST HAVE ACCESS OPENING TO "CO1", "CO2" & "CO3". |
| CO1, CO2, CO3 | PROVIDE 2 1/2" DIAMETER GROMMETTED CUT–OUT IN SEPARATE 10" x 10" COVER OF HORIZONTAL WIREWAY, APPROXIMATELY 1'–5" ABOVE FINISHED FLOOR. * OPTIONAL – IT MAY BE PREFERABLE TO USE A 2" X 4" GROMMETTED CUT–OUT ON THE UNDERSIDE OF THE WIREWAY. COORDINATE WITH LOCAL INSTALLER. |
| | DEDICATED 120V, 20 AMP HOSPITAL GRADE DUPLEX OUTLET. (AWS/SUROS/TRIDENT) ** 120V OUTLET AND NETWORK OUTLETS FOR AWS CONSOLE MAY BE INSTALLED IN COVER OF "WH1". |
| | 120V, 20 AMP DUPLEX OUTLET. (FOR SERVICE/TEST EQUIPMENT). |
| | WALL OUTLET BOX FOR CAT 5 / CAT 6 CABLE. (HOSPITAL NETWORK CONNECTION). RECOMMEND HOLOGIC CONNECT FOR REMOTE DIAGNOSTIC SERVICE, SWITCH GIGABIT ETHERNET (100/1000 BASE–T). |
| | DEDICATED OUTSIDE PHONE LINE (OPTIONAL / RECOMMENDED). CUSTOMER TO DETERMINE REQUIREMENT, LOCATION. SUGGESTED LOCATION SHOWN. |
| | REMOTE EMERGENCY OFF SHUNT TRIP SWITCH, LOCATE PER CODE. SEE DETAIL ON SHEET 3.1. (OPTIONAL / RECOMMENDED – USED ONLY WHERE REQUIRED BY LOCAL CODE OR CUSTOMER PREFERENCE) SUGGESTED LOCATION SHOWN. |
| WL | WARNING LIGHTS. SEE DETAIL SHEET 3.1. (OPTIONAL – USED ONLY WHERE REQUIRED BY LOCAL CODE OR CUSTOMER PREFERENCE). |
| 1 | PROVIDE CONDUIT AS REQUIRED TO CIRCUIT BREAKER "CB1" FROM INCOMING POWER SOURCE. SIZE PER CODE. |
| 2 | PROVIDE CONDUIT FROM "CB1" TO "WH1. SIZE PER CODE. |
| 3 | PROVIDE 3/4" DIAMETER FLEXIBLE METALLIC CONDUIT (SEALTITE OR EQUAL) FROM "WH1" TO BACK OF GENERATOR. LENGTH SHOULD ALLOW FOR A 12 – 18" SERVICE LOOP. |

NOTE: HOLOGIC INSTALLERS WILL UTILIZE EXISTING WIREWAYS, CONDUITS, POWER LOCATIONS, ETC.., WHENEVER FEASIBLE. RECOMMEND ELECTRICAL CONTRACTOR COORDINATE WITH THE LOCAL HOLOGIC INSTALLER AND/OR PROJECT MANAGER, AND REFER TO NATIONAL AND LOCAL CODES, TO VERIFY SUITABILITY OF EXISTING ELECTRICAL FEATURES FOR THE INSTALLATION OF EQUIPMENT SHOWN.

* VARIOUS CABLE LENGTHS ARE AVAILABLE FROM 20' TO 100' IN 20' INCREMENTS. RECOMMEND THE HOLOGIC PROJECT MANAGER, OR LOCAL INSTALLER COORDINATE CLOSELY WITH THE CUSTOMER'S ELECTRICAL CONTRACTOR TO VERIFY ALL PROPOSED CABLE RUN LENGTHS, AND ORDER THE APPROPRIATE SYSTEM INTERCONNECT CABLES (PROVIDED BY HOLOGIC).




DETAIL: EQUIPMENT WALL BOXES AND CONDUITS (ELEVATIONS)
SCALE: 3/8" = 1'–0"

FOR REFERENCE ONLY

HCAi USE

---

1 | HOLOGIC AFFIRM - STEROTACTIC BIOPSY 1M130

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LICENSED ARCHITECT — JESSE L. GIVEN — NO. C-30772 — REN. 05-31-2025 — STATE OF CALIFORNIA

CONSULTANT'S STAMP

SANTA CLARA VALLEY MEDICAL CENTER
Hospital & Clinics

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| | 05.17.23 | 3RD SUBMITTAL |

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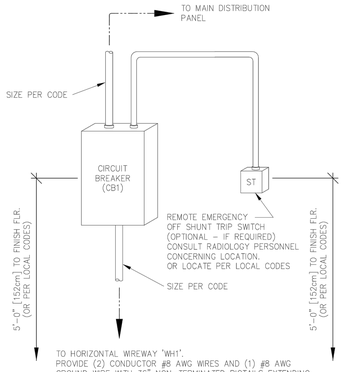
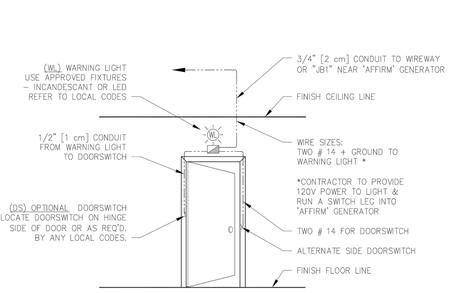
A5.2




## TYPICAL CIRCUIT BREAKER DIAGRAM

CUSTOMER MAY HAVE TO STEP–UP EXISTING INCOMING POWER WITH TRANSFORMER TO MEET HOLOGIC'S POWER SPECIFICATIONS. MUST MEET ALL ELECTRICAL SPECIFICATIONS PER SHEET 3.0, 3.2. PLEASE VALIDATE PRIOR TO INSTALLATION, AND/OR CONSULT WITH LOCAL HOLOGIC FIELD ENGINEER OR INSTALLATION COORDINATOR PRIOR TO INSTALLATION.

IF STEP–UP TRANSFORMER IS USED FOR THIS APPLICATION TRANSFORMER MUST HAVE LESS THAN .15 OHMS OF IMPEDANCE.




## TYPICAL DOOR SWITCH / WARNING LIGHT DETAIL

**(OPTIONAL - ONLY USED WHERE REQUIRED BY LOCAL CODE OR CUSTOMER PREFERENCE)**

DESCRIPTION:
WARNING LIGHT = 4" [10cm] STANDARD BOX WITH "X–RAY ON" OR RED WARNING LAMP OVER DOOR. USE APPROVED FIXTURES – INCANDESCENT OR LED. REFER TO LOCAL CODES.
(SUPPLIED & INSTALLED BY HOSPITAL'S ELECTRICAL CONTRACTOR.)

HOSPITAL'S ELECTRICAL CONTRACTOR TO PROVIDE POWER TO THE LAMP, AND A SWITCH LEG TO THE 'AFFIRM' GENERATOR FOR CONTACT CLOSURE ONLY. AN XRAY EXPOSURE WILL CLOSE THE CONTACT, ENERGIZING THE LIGHT.

THE CONTACT RELAYS ARE RATED AT: 250VAC, 10 AMP NORMALLY OPEN, AND 10 AMP, 30VDC NORMALLY OPEN.

OPTIONAL DOORSWITCH = MICROSWITCH IN DOOR JAMB TO ENABLE "ROOM IN USE" LIGHT OR "X–RAY SYSTEM POWER ON" INDICATOR.
NOTE: CUSTOMER MAY USE A WALL SWITCH FOR THIS PURPOSE IF DESIRED. (TYPICALLY USED ONLY WHERE REQUIRED BY CODE, OR CUSTOMER PREFERENCE)

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VALLEY MEDICAL CENTER
REVISED FINAL ROOM PLAN
SAN JOSE, CA

THESE DRAWINGS ARE FOR REVIEWING PURPOSES ONLY

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SCALE: 3/4"=1'-0"
DRAWN BY: SHANE BYT
CHECKED BY: JEROME WEIR

PROJECT NO: 23184F1

SHEET NO: 3.1

## ELECTRICAL USE REQUIREMENTS

| REQUIREMENT | GENERATOR | WORKSTATION |
|---|---|---|
| INPUT LINE VOLTAGE<br>INPUT CURRENT<br>FREQUENCY | 200, 208, 220, 230, 240VAC, 50–60 HZ, SINGLE PHASE<br>40 AMP, HACR OR UL 489 RATED CIRCUIT BREAKER / DISCONNECT.<br>"AFFIRM" GENERATOR IS TO BE PERMANENTLY WIRED ONLY. | 100, 120 VAC / 200 – 240 VAC ±10%<br>2.5A, < 1000 WATTS<br>50–60 HZ, SINGLE PHASE<br><br>HOSPITAL GRADE RECEPTACLE REQUIRED |

## PHYSICAL AND ENVIRONMENTAL REQUIREMENTS

| | | | |
|---|---|---|---|
| OPERATING TEMPERATURE RANGE<br>STORAGE TEMPERATURE (SYSTEM POWERED DOWN OR IN STORAGE) | 50 – 86° F (10 – 30° C)<br>50 – 95° F (10 – 35° C)<br>CUSHIONS TO BE STORED AT ROOM TEMPERATURE. LOW TEMPERATURE MAY DAMAGE FOAM | | |
| RELATIVE HUMIDITY RANGE | 10 – 80% , NON CONDENSING | | |
| OVERALL DIMENSIONS | GENERATOR<br>34"W x 22"D x 25"H<br>87cm x 55cm x 63cm | TABLE<br>90"W x 78"D x 42"H<br>229cm x 198cm x 107cm | WORKSTATION<br>34"W x 30"D x 70.5"H (28–44" WORK SURFACE)<br>92cm x 71cm x 158cm (71.1 – 111.8cm) |

## NETWORKING NOTES:

SUPPLYING AND INSTALLING NETWORK CONNECTIONS BETWEEN DIAGNOSTIC IMAGING EQUIPMENT AND OTHER NODE CONNECTIONS SHALL BE THE CUSTOMER'S RESPONSIBILITY. CUSTOMER MUST SPECIFY, SUPPLY AND INSTALL PROPER RECEPTACLES, AUI TRANSCEIVERS, CABLING, REPEATERS, ROUTERS, MODEMS, ETC. WHICH ARE CONSISTENT WITH THE SITE NEEDS AND SOUND NETWORK IMPLEMENTATION PRACTICES. ALSO INCLUDED, BUT NOT LIMITED TO, THE CUSTOMER'S RESPONSIBILITY IS THE PURCHASE AND INSTALLATION OF CONDUITS AND / OR RACEWAYS FOR CONTAINMENT AND ROUTING OF NETWORKING CABLES, AS DETERMINED BY SITE CONDITIONS, OR REQUIRED BY PREVAILING CODES.

## BIOPSY SYSTEM SPECIFICATIONS:

### SYSTEM

| | |
|---|---|
| INPUT LINE | 200–240VAC, (±10%), 65 AMP MAX. FOR 5 SECOND DURATION AT 208VAC, 50–60HZ |

### GENERATOR

| | |
|---|---|
| TYPE | CONSTANT POTENTIAL HIGH FREQUENCY, INVERTER TYPE |
| RATING | 7.0 kW, MAX. (50WATT), 200 mA AT 34 kV |
| kV RANGE | 20 kV TO 49 kV IN 1 kV INCREMENTS |
| mAs RANGE | 3.0 mAs TO 500 mAs |
| mA RANGE | 10 mA TO 200 mA, |

### TABLE / C-ARM ASSEMBLY

| | |
|---|---|
| VERTICAL TRAVEL | 34 – 57" (86.4 CM TO 145 CM) MOTORIZED |
| C–ARM ROTATION | 180° CONTINUOUS |
| SID | 31.5" (80 CM) |
| PATIENT WEIGHT LIMIT | 400LB (181.4KG) |

## UL LISTING NOTE

THE "ACCESSORY SYSTEM CONSISTS OF VISUAL DISPLAY DEVICES AS THE SYSTEM CONSISTS OF A TRACKBALL AND CONNECTS TO A COMPUTER OVERSEEN BY UL. THE ACCESSORY IS TESTED AND CERTIFIED BY UL AS A SINGLE UL CERTIFICATION LABEL HAS BEEN PROVIDED BY UL, AND IS AFFIXED TO THE AWS CONSOLE.

## SUPPLEMENTAL NOTES

ALL ITEMS LISTED BELOW ARE TO BE PROVIDED / DESIGNED BY THE ARCHITECT. THE ARCHITECT SHALL CONSULT WITH THE CUSTOMER FOR ANY ADDITIONAL INFORMATION.

1. RECOMMEND INCANDESCENT OR LED, AS WELL AS FLUORESCENT LIGHT FIXTURES. THE INCANDESCENT OR LED FIXTURES SHOULD BE DISTRIBUTED AROUND THE ROOM. HOLOGIC RECOMMENDS AGAINST THE USE OF DIMMER CONTROLS, AS THEY CAN CAUSE ISSUES WITH EMI INTERFERENCE.
2. IT IS RECOMMENDED THAT ALL DIAGNOSTIC ROOMS SHOULD HAVE TILE OR VINYL FLOORING.
3. A TILE DROP CEILING IS RECOMMENDED FOR ANY DIAGNOSTIC ROOMS.
4. ALL CABINETRY WORK IS TO BE DESIGNED AND PROVIDED BY THE ARCHITECT. RECOMMEND ALL COUNTERS HAVE ROUNDED CORNERS.

## GROUNDING NOTES

* FIELD VERIFY ACTUAL APPLICATION WITH LOCAL LICENCED ELECTRICIAN.

THE SOURCE GROUND CONNECTION FOR THIS SYSTEM WILL BE THE GROUND SIDE OF THE NEUTRAL TO GROUND BONDING POINT FOR THE POWER DELIVERED TO THIS SYSTEM. THE SOURCE WILL BE EITHER THE MAIN SERVICE ENTRANCE PANEL OR A SEPARATELY DERIVED SOURCE, SUCH AS AN ISOLATION TRANSFORMER. SYSTEM LOCALIZED COLD WATER PIPING OR BUILDING STEEL ARE NOT ACCEPTABLE GROUND SOURCE CONNECTION POINTS. THE SOURCE GROUND CONDUCTOR SHALL BE OF THE SAME SIZE AND TYPE AS THE PHASE CONDUCTORS SUPPLYING THE SYSTEM. REFER TO LOCAL AND NATIONAL ELECTRICAL CODES FOR GROUNDING REQUIREMENTS.

## WIRING NOTES

ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL CONDUITS, WIRE, WIREWAYS, DISTRIBUTION TRANSFORMERS, JUNCTION BOXES, ENCLOSURES, CIRCUIT BREAKERS, ETC. ALL WIRES TO BE THHN TYPE, STRANDED COPPER UNLESS OTHERWISE SPECIFIED. THE ELECTRICAL CONTRACTOR SHALL SUPPLY LUG PAIRS OF #8 OR GREATER FOR ALL CABLES LISTED WITHIN THE SCOPE OF THIS WORK. CONDUIT AND DUCT RUNS ARE SHOWN SCHEMATICALLY. ACTUAL BUILDING CONDITIONS WILL DETERMINE CONDUIT AND DUCT ROUTES. CONDUIT TURNS TO HAVE LARGE SWEEPING BENDS WITH MINIMUM RADIUS AS SPECIFIED IN NEC ART. 346–10. IF LARGE BENDS IN CONDUIT ARE NOT POSSIBLE, USE SERVICE ENTRANCE ELBOW CONNECTORS TO AVOID DAMAGE TO CABLE. ELECTRICAL CONTRACTOR TO PROVOE 10'–0" TAILS FOR ALL WIRES UNLESS OTHERWISE SPECIFIED AND IDENTIFY BOTH ENDS OF ALL WIRES. ELECTRICAL CONTRACTOR SHALL MAKE EVERY EFFORT TO ENSURE THAT POINT TO POINT CONDUIT RUNS ARE AS SHORT AS FIELD CONDITIONS ALLOW. LEAVE PULL WIRE IN EMPTY CONDUITS. WORK SHALL COMPLY WITH REGULATORY AGENCIES OF JURISDICTION ALL SUCH AGENCIES SUPERSEDE THESE DRAWINGS AND MUST BE ADHERED TO. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR SCRUTINIZING THESE DRAWINGS AND SHALL MAKE CORRECTIONS ACCORDING TO PREVAILING CODES. NOTE: CONDUITS MAY BE INCREASED IN SIZE BUT NEVER DECREASED WITHOUT CONSENT FROM THE EQUIPMENT REPRESENTATIVES. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING THE PATIENT GROUNDING NETWORK PER NATIONAL ELECTRIC CODE ARTICLE 517 AND NFPA 70. ALL CONDUIT SHALL BE RIGID TYPE UNLESS SPECIFIED OTHERWISE IN THIS DRAWING SET. ALL CONDUIT RUNS EXPOSED TO WET ENVIRONMENTS SHALL BE MADE LIQUID TIGHT. (e.g. UNDERGROUND, ETC.) ALL FLUSH MOUNTED ELECTRICAL BOXES AND WIRE TROUGHS SHALL HAVE OVERSIZED COVER PLATES. ALL FLUSH MOUNTED ELECTRICAL BOXES AND WIRE TROUGHS EXPOSED TO A WET ENVIRONMENT SHALL BE MADE LIQUID TIGHT. (e.g. IN FLOOR, ETC.) THE ELECTRICAL CONTRACTOR SHALL INSTALL, PROVIDE POWER TO AND CONNECT THE FOLLOWING IF REQUIRED: THE "X–RAY IN USE" WARNING SIGN; THE 120VAC, 15AMP RECEPTACLE; THE DOOR INTERLOCK SWITCH; THE EMERGENCY OFF SWITCH; AND THE 120VAC, DUPLEX OUTLETS FOR SERVICE AND HOUSEKEEPING.

Hologic, Inc. — PROPOSED — HOLOGIC — Bedford, MA Waltham, MA — PROJECT NUMBER — DRAWING NO. 0.1 — SIZE: D ARCH — DATE — BY — CHECKED BY — REV RELEASE DATE — REV DRAWN BY

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VALLEY MEDICAL CENTER
REVISED FINAL ROOM PLAN
SAN JOSE, CA

THESE DRAWINGS ARE FOR REVIEWING PURPOSES ONLY

DATE: 03–30–23
SCALE: 3/4"=1'-0"
DRAWN BY: SHANE BYT
CHECKED BY: JEROME WEIR

PROJECT NO: 23184F1

SHEET NO: 3.2

## GENERAL NOTES

1. THE DRAWINGS AND SPECIFICATIONS CONTAINED IN THIS PACKAGE ARE DESIGNED TO CONFORM TO STRUCTURAL FEATURES AND EQUIPMENT REQUIREMENTS PRESENTED AT THE TIME OF THEIR PREPARATION. HOWEVER, SINCE THESE FACTORS ARE SUBJECT TO DESIGN MODIFICATIONS, THE DRAWINGS ARE NOT TO BE USED AS CONSTRUCTION DOCUMENTS. CONSTRUCTION PLANS ARE THE RESPONSIBILITY OF THE CUSTOMER'S ARCHITECT OR ENGINEER, WHO SHALL SEE THAT ALL APPLICABLE CODES AND REGULATIONS ARE COMPLIED WITH. ANY CHANGES MUST BE BROUGHT TO THE ATTENTION OF THE HOLOGIC PLANNING OFFICE OR THE OFFICE OF THE MANUFACTURER'S REPRESENTATIVE SUPERVISING THE PRE–INSTALLATION WORK SITE. ALL FINAL DRAWINGS MUST BE SUBMITTED TO HOLOGIC FOR REVIEW.
2. ALL DIMENSIONS ARE GIVEN FROM FINISHED SURFACES. WHERE DIMENSIONS ARE NOT GIVEN, FIELD MEASUREMENTS SHOULD BE TAKEN. ALL EXISTING CONDITIONS ARE TO BE VERIFIED BY THE CUSTOMER'S CONTRACTOR, AND ANY DISCREPANCIES SHOULD BE BROUGHT TO THE ATTENTION OF THE HOLOGIC PLANNING OFFICE.
3. EQUIPMENT PURCHASER SHALL, AT HIS EXPENSE, PROVIDE THE NECESSARY LABOR AND MATERIAL FOR ANY PLUMBING, CARPENTRY, STRUCTURAL AND ELECTRICAL WORK SUCH AS REINFORCEMENT, CONDUITS, WIREWAYS, SWITCHES, ETC., WHICH MAY BE REQUIRED FOR THE INSTALLATION OF X–RAY ROOM EQUIPMENT. HOLOGIC ASSUMES NO RESPONSIBILITY FOR ANY CONSTRUCTION COSTS WHETHER OR NOT RELATED TO THE INSTALLATION OF OUR EQUIPMENT NO WORK MAY BE PERFORMED OR MATERIALS FURNISHED AT OUR EXPENSE, UNLESS AUTHORIZED BY A SIGNED, FORMAL HOLOGIC PURCHASE ORDER
4. THE CUSTOMER, AT HIS EXPENSE, SHALL EMPLOY A REGISTERED PHYSICIST TO SPECIFY RADIATION PROTECTION.
5. THE CUSTOMER'S ARCHITECT SHALL VERIFY THAT ALL DOOR AND PASSAGE SIZES ARE ADEQUATE FOR DELIVERY OF EQUIPMENT FROM EXTERIOR, INTO THE ROOM. IF PROFESSIONAL RIGGING SERVICES ARE REQUIRED, THESE SHALL BE PROVIDED AT THE CUSTOMER'S EXPENSE.
6. ALL NEW FINISHED FLOOR SURFACES SHOULD BE LEVEL. THE FLOOR AREA UNDER THE EQUIPMENT BASES, EXTENDING 3'–0" IN ALL DIRECTIONS AROUND EACH BASE, MUST BE LEVELLED, USING A CARPENTER'S LEVEL OF APPROPRIATE LENGTH, TO WITHIN 1/16".
7. THE CUSTOMER'S CONTRACTOR SHALL OBTAIN ALL PERMITS NECESSARY FOR CONSTRUCTION.
8. THE DELIVERY AND INSTALLATION OF RADIOLOGY EQUIPMENT, SHALL NOT COMMENCE UNTIL HOLOGIC HAS RECEIVED NOTIFICATION BY THE CUSTOMER OR HIS ARCHITECT, THAT THE CONSTRUCTION PHASE HAS BEEN COMPLETED AND THE ENVIRONMENT IS CLEAN AND DUST FREE.
9. ALL BUILDING UTILITIES SERVICING THE SITE SHALL BE OPERATIONAL.
10. THE CUSTOMER AND A HOLOGIC REPRESENTATIVE SHALL INSPECT AND ACCEPT THE ROOM BEFORE WORK BEGINS ON THE INSTALLATION OF EQUIPMENT. IF ROOM PREPARATION IS INCOMPLETE OR INCORRECT, THE CUSTOMER'S CONTRACTOR IS RESPONSIBLE FOR THE COST OF CORRECTING ANY PROBLEMS.
11. AS THIS DRAWING CONTAINS CONFIDENTIAL AND PROPRIETARY INFORMATION, THE CUSTOMER, IN ACCEPTING THIS DRAWING, AGREES NOT TO REPRODUCE, OR DISTRIBUTE IT TO OTHERS, OR TO USE THE INFORMATION CONTAINED THEREIN, IN ANY MANNER DETRIMENTAL TO HOLOGIC SYSTEMS DIVISION.

## ARCHITECTURAL NOTES

1. THIS SET OF DRAWINGS IS FOR THE PURPOSE OF A LAYOUT PLAN ONLY – NOT FOR CONSTRUCTION. THESE DRAWINGS ARE FOR THE BENEFIT OF PURCHASER'S ARCHITECT OF CHOICE. THE ARCHITECT AND BUILDING CONTRACTORS SHALL CONVERT THIS LAYOUT INTO WORKING AND CONSTRUCTION DRAWINGS OBSERVING ALL PREVAILING CODES. THESE DRAWINGS ARE INTENDED TO PROVIDE THE CONSTRUCTION PARTICIPANTS WITH SPECIFICATION AND CONCEPTUAL INFORMATION ONLY. EVERY EFFORT HAS BEEN MADE TO CONFORM DETAILS TO THE ACTUAL EQUIPMENT EXPECTED TO BE INSTALLED. THESE PLANS HAVE BEEN SCALED FROM PRINTS OR ARCHITECTURAL DRAWINGS BY OTHERS, OR FROM SKETCHES RECEIVED FROM FIELD SERVICE ENGINEERS UPON COMPLETION OF THE SITE SURVEY. HOLOGIC IS NOT LIABLE FOR ERRORS OR OMISSIONS. ALL CONSTRUCTION PARTICIPANTS SHALL VERIFY AND ADJUST DIMENSIONS. CRITICAL DIMENSIONAL RELATIONSHIPS HAVE BEEN SUPPLIED. IT IS THE RESPONSIBILITY OF ALL CONSTRUCTION PARTICIPANTS TO ADHERE TO THESE DISTANCES. ALL DIMENSIONS ARE FROM FINISHED SURFACES UNLESS OTHERWISE NOTED. RECOMMEND THE CUSTOMER'S CONTRACTOR COORDINATE WITH THE LOCAL HOLOGIC INSTALLER TO VERIFY THAT ALL DOOR AND PASSAGEWAY SIZES ARE ADEQUATE FOR TRANSPORTING EQUIPMENT FROM EXTERIOR OF BUILDING INTO RESPECTIVE ROOMS. RECOMMEND COVERING OR REMOVING THRESHOLDS. THOSE MAKING USE OF, OR RELYING ON THIS MATERIAL ASSUME ALL RISKS AND LIABILITY ARISING FROM SUCH USE OR RELIANCE. ALL CONSTRUCTION SHALL COMPLY WITH BUILDING CODES AND REGULATIONS THAT HAVE JURISDICTION.
2. ALL SUPPLY DIFFUSERS SHALL NOT CAUSE DIRECT AIR CURRENTS ON PATIENTS OR OPERATORS. RECOMMEND 2' X 4' LAY–IN CEILING PANELS OF MATERIAL ACCEPTABLE TO CUSTOMER, AND APPROVED PER PREVAILING CODES. LIGHTING FIXTURES, VENTS, ETC. TO BE FLUSH WITH FINISHED CEILING.
RECOMMEND INCANDESCENT OR LED, AS WELL AS FLUORESCENT LIGHT FIXTURES. THE INCANDESCENT OR LED FIXTURES SHOULD BE DISTRIBUTED AROUND THE ROOM.
HOLOGIC RECOMMENDS AGAINST THE USE OF DIMMER CONTROLS, AS THEY CAN CAUSE ISSUE WITH EMI INTERFERENCE.
3. ARCHITECT AND ENGINEERS SHALL USE EXISTING ELECTRICAL AND STRUCTURAL ITEMS WHEN FEASIBLE.
4. ALL WORK EXCEPT INSTALLATION OF HOLOGIC SUPPLIED DIAGNOSTIC IMAGING EQUIPMENT IS TO BE DONE BY OTHERS.
5. SOME CONVENIENCES MAY BE REQUIRED BY CODE OR DESIRED BY CUSTOMER IN EACH RESPECTIVE ROOM (I.E., CASSETTE STORAGE, ILLUMINATORS, CABINETS, SINKS, AND COUNTER SPACE). PLEASE CONSULT WITH CUSTOMER WITH REGARDS TO DESIRED CONVENIENCES.
6. ELECTRICAL POWER FOR X–RAY EQUIPMENT REQUIRES HIGH CURRENTS FOR SHORT DURATION, WHILE THE SUPPLY VOLTAGE MUST REMAIN STABLE. REFER TO ELECTRICAL NOTES. GROUNDING MUST CONFORM TO THE CURRENT REQUIREMENTS FOR ELECTRICALLY SUSCEPTIBLE PATIENT AREAS.
7. NO ATTENTION HAS BEEN GIVEN TO SPECIFIC PLUMBING OR HVAC CONSIDERATIONS AFFECTED BY THE SCOPE OF THIS WORK. ENGINEERING DRAWINGS TO BE DONE BY OTHERS.
ELECTRICAL AND MECHANICAL DESIGNERS SHALL BE REQUIRED TO REVIEW THESE DRAWINGS TO HELP THEM GAIN AN UNDERSTANDING OF THE CONCEPT OF THIS WORK AND TO HELP MINIMIZE CONFLICTING CONSTRUCTION EFFORTS. NO ATTENTION HAS BEEN GIVEN TO SPECIFIC BUILDING STRUCTURAL INTEGRITY. A PROFESSIONAL STRUCTURAL ENGINEER SHALL INSPECT FIELD CONDITIONS TO ENSURE THAT THE FACILITY SUPPORT STRUCTURE (I.E. WALLS, FLOORS, CEILINGS) CAN PROVIDE ADEQUATE SUPPORT FOR THE DIAGNOSTIC IMAGING EQUIPMENT DESCRIBED IN THE EQUIPMENT SCHEDULE. NO ATTENTION HAS BEEN GIVEN TO SPECIFIC SEISMIC ANCHORAGE CONSIDERATIONS AFFECTED BY THE SCOPE OF THIS WORK. ALL EXPENSES ASSOCIATED WITH SEISMIC TESTING AND COMPLIANCE SHALL BE THE RESPONSIBILITY OF THE CUSTOMER (END USER) OR THEIR RESPECTIVE CONTRACTOR OF CHOICE. IT IS STRONGLY RECOMMENDED THAT THE CUSTOMER CONSULTS WITH A PROFESSIONAL STRUCTURAL ENGINEER FAMILIAR WITH ALL PREVAILING SEISMIC REQUIREMENTS. ENGINEERING DRAWINGS BY OTHERS.
8. THE EQUIPMENT REPRESENTATIVES PRIOR TO CHANGES, MUST APPROVE DEVIATION FROM THESE PLANS IN WRITING.

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REVISED FINAL ROOM PLAN
SAN JOSE, CA

THESE DRAWINGS ARE FOR REVIEWING PURPOSES ONLY

DATE: 03–30–23
SCALE: 3/4"=1'-0"
DRAWN BY: SHANE BYT
CHECKED BY: JEROME WEIR

PROJECT NO: 23184F1

SHEET NO: 4.0

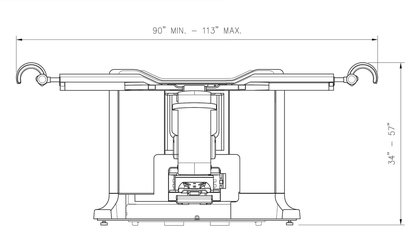



TABLE FRONT VIEW

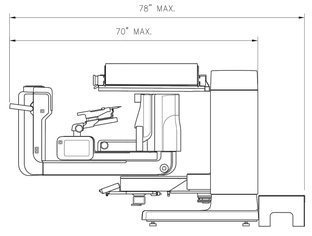
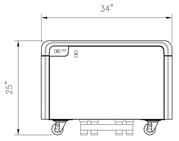
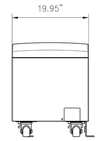



TABLE SIDE VIEW




GENERATOR FRONT VIEW




GENERATOR SIDE VIEW

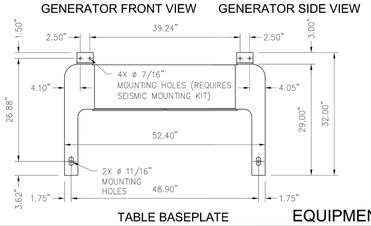
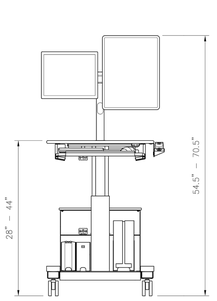
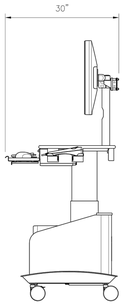



TABLE BASEPLATE




AQUISITION WORKSTATION FRONT VIEW




AQUISITION WORKSTATION SIDE VIEW

## EQUIPMENT, BASEPLATE DETAILS

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PROJECT NO: 23184F1

SHEET NO: 4.1

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1 HOLOGIC AFFIRM - STEROTACTIC BIOPSY 1M130


G D G
architects
GIVEN DESIGN GROUP
1905 GLASSELL, STE 200
ORANGE, CA 92866
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FAX: 714.665.5924



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WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSION. CONTRACTORS SHALL VERIFY, AND BE RESPONSIBLE FOR, ALL DIMENSIONS AND CONDITIONS ON THE JOB AND THIS OFFICE MUST BE NOTIFIED OF ANY VARIATION FROM THE DIMENSIONS AND CONDITIONS SHOWN BY THESE DRAWINGS. SHOP DETAILS MUST BE SUBMITTED TO THIS OFFICE FOR APPROVAL BEFORE PROCEEDING WITH FABRICATION.


ARCHITECT'S STAMP

LICENSED ARCHITECT
JESSE L. GIVEN
NO. C-30772
REN. 05-31-2025
STATE OF CALIFORNIA

CONSULTANT'S STAMP

SANTA CLARA VALLEY MEDICAL CENTER
Hospital & Clinics

## REVISIONS

| NO. | DATE | DESCRIPTION |
|---|---|---|
| | 12.29.22 | 1ST SUBMITTAL |
| 1 | 04.21.23 | 2ND SUBMITTAL |
| | 05.17.23 | 3RD SUBMITTAL |

HCAi #: S222248-43-00

| | |
|---|---|
| Job No: | 22-0977 |
| Scale: | NTS |
| Drawn by: | FP |
| Reviewed by: | JV |
| Sheet Name: | EQUIPMENT SPECIFICATIONS |

DIGITAL IMAGING EQUIPMENT REPLACEMENT

Sheet No: A5.3

MPCS
Medical Physics Consulting Service, Inc.

Darlene M. Belmonte, MS, DABR • Douglas D. Youngblood, MS, DABR • Kristin Swenson, Ph.D.

December 12, 2022

Kristin Hernandez
Project Coor
GDG Architects
www.givendesigngroup.com

Kristen,

Enclosed are the shielding requirements for the Santa Clara Valley Medical Center Imaging Equipment Replacement project shielding. Shielding in any floor or ceiling isn't required. Please review the attached pages for recommendations and details.

Warning lights over the doors are not required; however, "Caution: X-ray" signs must be posted on all entry doors to areas containing an x-ray source.

**CONDITIONS**

1. All factors utilized in the calculations, including acceptable limits of radiation exposure, occupancy factors and attenuation factors are in accordance with recommendations contained in NCRP Report No. 147, "Structural Shielding Design for Medical X-Ray Imaging Facilities".
2. All dimensions, room layout, room usages and orientations were derived from the provided proposed equipment layout. Calculations were based upon information provided and typical workload factors provided in NCRP Report No. 147.
3. All shielding will be continuous and without voids which would substantially violate the shielding integrity with respect to radiation attenuation.
4. All voids in the lead (doors, observation windows, ducts, etc.) will be provided with equivalent shielding potential as the surrounding lead unless otherwise noted.
5. Lead shielding in walls will extend to a minimum height of seven feet above the floor of the adjoining rooms.

104 Southwind Drive • Pleasant Hill. CA 94523 • (925) 674-2769 • **FAX** (925) 372-0673
**(E-mail)** mpshq@att.net

The recommended shielding requirements will provide adequate protection to maintain individual radiation exposures As Low As Reasonably Achievable both within and external to controlled areas. If any condition is changed, the shielding design must be reevaluated.

Please review the data pages for details. If you have any questions, feel free to contact me at (925) 674-2769.

Sincerely,

Douglas D. Youngblood, MS, DABR
Medical Physicist

**CERTIFICATION FOR RADIATION PROTECTION**

Facility Name: Santa Clara Valley Medical Center OSHPD App. #:

Address: San Jose, CA Date: 12/12/2022

Description of Proposed Project:

Upgrade of mammographic and diagnostic imaging equipment.

Based on my assumptions and calculations, I declare under the penalty of perjury that the radiation protection specified for the above project shall conform to the applicable provisions of Chapter 31C, California Building Code (Title 24, California Code of Regulations), relating to radiation protection. I further declare that I am a certified radiation physicist or medical physicist.

Additional Comments:

Name: Douglas D. Youngblood, MS, DABR

Title: Medical Physicist

Signature:

Address: 104 Southwind Dr., Pleasant Hill, CA 94523

Phone: (925) 674-2769

**SUMMARY OF SHIELDING RECOMMENDATIONS**

**Facility: Santa Clara Valley Medical Center**

**Room: Mammography Room 1** **Room Number: 1343**

(Please Refer to Attached Calculation Sheets for further Barrier Description)

| BARRIER | DESCRIPTION | RECOMMENDED SHIELDING Thickness (in) | Density (lb/ft²) | COMMENTS |
|---|---|---|---|---|
| | **Lead Shielding Not Required** | | | |

**Room: Mammography Room 2** **Room Number: 1341**

(Please Refer to Attached Calculation Sheets for further Barrier Description)

| BARRIER | DESCRIPTION | RECOMMENDED SHIELDING Thickness (in) | Density (lb/ft²) | COMMENTS |
|---|---|---|---|---|
| | **Lead Shielding Not Required** | | | |

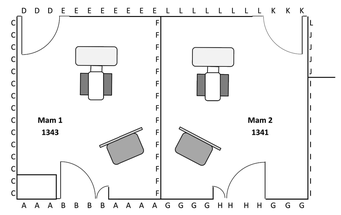
**Room: Biopsy Room** **Room Number: 1404**

(Please Refer to Attached Calculation Sheets for further Barrier Description)

| BARRIER | DESCRIPTION | RECOMMENDED SHIELDING Thickness (in) | Density (lb/ft²) | COMMENTS |
|---|---|---|---|---|
| | **Lead Shielding Not Required** | | | |

**RADIATION SHIELDING REQUIREMENTS CALCULATIONS**

**Facility:** Santa Clara Valley Medical Center **Room(s):** Mammography Rooms (1341 & 1343) **Date:** 12/8/2022



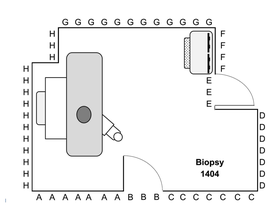

**COMMENTS**

**SITE DESCRIPTION (not to scale)**

| Area | Description | Max Weekly Exposure (mrem) | Scatter to Incident Ratio | Weekly Workload (mA-min) | Occupancy Factor | Distance to Patient (m) | Distance to Area (m) | Estimated Field Area (cm²) | $K_{sh}$ | Recommended Lead Shielding mm | Recommended Lead Shielding lb/ft² |
|---|---|---|---|---|---|---|---|---|---|---|---|
| A | Corridor (1340) | 2 | 0.001 | 1075 | 0.2 | 0.6 | 2.9 | 720 | 0.0160 | 0.13069 | 0 |
| B | Corridor (1340)(door) | 2 | 0.001 | 1075 | 0.2 | 0.6 | 3.0 | 720 | 0.0167 | 0.12817 | 0 |
| C | Ultrasound 2 (1344) | 2 | 0.001 | 1075 | 0.5 | 0.6 | 2.5 | 720 | 0.0045 | 0.20151 | 0 |
| D | Work Area (1342) (door) | 2 | 0.001 | 1075 | 0.2 | 0.6 | 2.6 | 720 | 0.0127 | 0.14351 | 0 |
| E | Work Area (1342) | 2 | 0.001 | 1075 | 0.5 | 0.6 | 2.2 | 720 | 0.0035 | 0.21644 | 0 |
| F | Mammography 2 (1341) | 2 | 0.001 | 1075 | 0.5 | 0.6 | 1.9 | 720 | 0.0028 | 0.22911 | 0 |
| G | Corridor (1340) | 2 | 0.001 | 1075 | 0.2 | 0.6 | 3.3 | 720 | 0.0204 | 0.11726 | 0 |
| H | Corridor (1340)(door) | 2 | 0.001 | 1075 | 0.2 | 0.6 | 2.8 | 720 | 0.0151 | 0.13406 | 0 |
| I | Ultrasound 3 (1339) | 2 | 0.001 | 1075 | 0.5 | 0.6 | 2.4 | 720 | 0.0042 | 0.20506 | 0 |
| J | Alcove (1337) | 2 | 0.001 | 1075 | 0.2 | 0.6 | 2.8 | 720 | 0.0143 | 0.13712 | 0 |
| K | Alcove (1337) (door) | 2 | 0.001 | 1075 | 0.2 | 0.6 | 2.5 | 720 | 0.0113 | 0.15029 | 0 |
| L | Hallway | 2 | 0.001 | 1075 | 0.2 | 0.6 | 1.9 | 720 | 0.0069 | 0.17789 | 0 |

**RADIATION SHIELDING REQUIREMENTS CALCULATIONS**

**Facility:** Santa Clara Valley Medical Center **Room(s):** Biopsy Room (1404) **Date:** 12/8/2022




**COMMENTS**

**SITE DESCRIPTION (not to scale)**

| Area | Description | Max Weekly Exposure (mrem) | Scatter to Incident Ratio | Weekly Workload (mA-min) | Occupancy Factor | Distance to Patient (m) | Distance to Area (m) | Estimated Field Area (cm²) | $K_{sh}$ | Recommended Lead Shielding mm | Recommended Lead Shielding lb/ft² |
|---|---|---|---|---|---|---|---|---|---|---|---|
| A | Corridor (1340) | 2 | 0.0015 | 550 | 0.2 | 0.6 | 2.3 | 500 | 0.0186 | 0.12233 | 0 |
| B | Corridor (1340) (door) | 2 | 0.0015 | 550 | 0.2 | 0.6 | 2.7 | 500 | 0.0253 | 0.10509 | 0 |
| C | Corridor (1340) | 2 | 0.0015 | 550 | 0.2 | 0.6 | 3.8 | 500 | 0.0496 | 0.06748 | 0 |
| D | Toilet (1402) | 2 | 0.0015 | 550 | 0.2 | 0.6 | 4.4 | 500 | 0.0671 | 0.05057 | 0 |
| E | Alcove (door) | 2 | 0.0015 | 550 | 0.2 | 0.6 | 3.4 | 500 | 0.0400 | 0.07951 | 0 |
| F | Alcove | 2 | 0.0015 | 550 | 0.2 | 0.6 | 3.5 | 500 | 0.0437 | 0.07454 | 0 |
| G | Corridor | 2 | 0.0015 | 550 | 0.2 | 0.6 | 2.5 | 500 | 0.0225 | 0.11167 | 0 |
| H | Storage (1406) | 2 | 0.0015 | 550 | 0.2 | 0.6 | 4.3 | 500 | 0.0648 | 0.05255 | 0 |
| I | | | | | | | | | | | |
| J | | | | | | | | | | | |
| K | | | | | | | | | | | |
| M | | | | | | | | | | | |
| N | | | | | | | | | | | |
| O | | | | | | | | | | | |
| P | | | | | | | | | | | |
| Q | | | | | | | | | | | |

**HCAi USE**

REVIEWED IN ACCORDANCE WITH THE HCAI DEPARTMENT RULES
APPROVED
Department of Health Care Access & Information
Office of Statewide Hospital Planning & Development
5/22/2023, 2:02:09 PM
S222248-43-00
Pedar Remme

GDG architects
GIVEN DESIGN GROUP
1905 GLASSELL, STE 200
ORANGE, CA 92866
TEL: 714.665.5957
FAX: 714.665.5924

THE DRAWINGS AND SPECIFICATIONS AND IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED HEREBY ARE AND SHALL REMAIN THE PROPERTY OF THE ARCHITECT; AND NO PART THEREOF SHALL BE COPIED, DISCLOSED OR EMBODIED IN ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS.

WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSION. CONTRACTORS SHALL VERIFY, AND BE RESPONSIBLE FOR, ALL DIMENSIONS AND CONDITIONS ON THE JOB AND THIS OFFICE MUST BE NOTIFIED OF ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN BY THESE DRAWINGS. SHOP DETAILS MUST BE SUBMITTED TO THIS OFFICE FOR APPROVAL BEFORE PROCEEDING WITH FABRICATION.

ARCHITECT'S STAMP

LICENSED ARCHITECT JESSE L. GIVEN NO. C-30772 REN. 05-31-2025 STATE OF CALIFORNIA

CONSULTANT'S STAMP

SANTA CLARA VALLEY MEDICAL CENTER
Hospital & Clinics

**REVISIONS**

| NO. | DATE | DESCRIPTION |
|---|---|---|
| | 12.29.22 | 1ST SUBMITTAL |
| | 04.21.23 | 2ND SUBMITTAL |
| | 05.17.23 | 3RD SUBMITTAL |

HCAi #: S222248-43-00

Job No: 22-0977
Scale: NTS
Drawn by: FP
Reviewed by: JV

Sheet Name:
RADIATION PROTECTION SHIELDING DETAILS
DIGITAL IMAGING EQUIPMENT REPLACEMENT

Sheet No:
A6.0

# ABBREVIATIONS

| | |
|---|---|
| A.B. | ANCHOR BOLT |
| ADDL. | ADDITIONAL |
| ALT. | ALTERNATE |
| A.P.A. | AMERICAN PLYWOOD ASSOCIATION |
| ARCH. | ARCHITECTURAL |
| A.W.P.A. | AMERICAN WOOD PRESERVERS ASSOCIATION |
| B. | BOTTOM |
| BLKG. | BLOCKING |
| BM. | BEAM |
| B.N. | BOUNDARY NAIL |
| B.O.F. | BOTTOM OF FOOTING |
| BRG. | BEARING |
| BTN. | BETWEEN |
| BOT. | BOTTOM |
| CBC | CALIFORNIA BUILDING CODE |
| C.G. | CENTER OF GRAVITY |
| C.I.P. | CAST-IN-PLACE |
| C.J. | CEILING JOIST |
| CL. | CENTER LINE |
| CLR. | CLEAR |
| COL. | COLUMN |
| CONC. | CONCRETE |
| CONN. | CONNECTION |
| CONST. | CONSTRUCTION |
| CONT. | CONTINUOUS |
| DBL. | DOUBLE |
| DBA. | DOWEL BAR ANCHOR |
| DF | DOUGLAS FIR/LARCH |
| DL | DEAD LOAD |
| DP. | DEEP |
| DIA. | DIAMETER |
| DIM. | DIMENSION |
| DO | DITTO (REPEAT) |
| DWG. | DRAWING |
| DWL. | DOWEL |
| (E) | EXISTING |
| EA. | EACH |
| E.F. | EACH FACE |
| EL. | ELEVATION |
| ELEC. | ELECTRICAL |
| ELEV. | ELEVATOR |
| EMBED. | EMBEDMENT |
| E.N. | EDGE NAIL |
| EQ. | EQUAL OR EQUIVALENT |
| E.S. | EACH SIDE |
| E.W. | EACH WAY |
| EXT. | EXTERIOR |
| F.A. | FRAMING/SHEAR CONNECTOR |
| FDN. | FOUNDATION |
| F.F. | FINISHED FLOOR |
| F.J. | FLOOR JOIST |
| F.O.C. | FACE OF CONCRETE |
| F.O.M. | FACE OF MASONRY |
| F.O.S. | FACE OF STUD |
| FRM. | FRAMING |
| FRT | FIRE-RETARDANT TREATED |
| F.S. | FAR SIDE |
| FTG. | FOOTING |
| GA | GAUGE |
| GALV. | GALVANIZED |
| GLB | GLUED LAMINATED BEAM |
| GR | GRADE |
| H. | HORIZONTAL |
| HDR. | HEADER |
| HGR. | HANGER |
| HT. | HEIGHT |
| HORIZ. | HORIZONTAL |
| H.S.H. | HORIZONTALLY SLOTTED HOLES |
| I.D. | INSIDE DIAMETER |
| I.F. | INSIDE FACE |
| I.JST. | I-JOIST |
| INT. | INTERIOR |
| I.O.R. | INSPECTOR OF RECORD |
| JST. | JOIST |
| JT. | JOINT |
| LDGR. | LEDGER |
| L.L. | LIVE LOAD |
| LT. WT. | LIGHT WEIGHT |
| MATL. | MATERIAL |
| MAX. | MAXIMUM |
| M.B. | MACHINE BOLT |
| MECH. | MECHANICAL |
| MFR. | MANUFACTURER |
| MIN. | MINIMUM |
| MISC. | MISCELLANEOUS |
| MTL. | METAL |
| N.I.C. | NOT IN CONTRACT |
| NO. | NUMBER |
| N.S. | NEAR SIDE |
| N.T.S. | NOT TO SCALE |
| O.C. | ON CENTER |
| O.D. | OUTSIDE DIAMETER |
| O.F. | OUTSIDE FACE |
| O.H. | OPPOSITE HAND |
| OPNG. | OPENING |
| OPP. | OPPOSITE |
| ORIG. | ORIGINAL |
| O.S.B. | ORIENTED STRAND BOARD |
| PL | PLATE |
| PLCS. | PLACES |
| PLYWD. | PLYWOOD |
| P.T. | PRESERVATIVE TREATED |
| P.W. | PLATE WASHER |
| R | RADIUS |
| REF. | REFERENCE |
| REINF. | REINFORCEMENT |
| REQD. | REQUIRED |
| RF. | ROOF |
| RT. | RAFTER CROSSTIE |
| R.R. | ROOF RAFTERS |
| R.W. | RETAINING WALL |
| SCHED. | SCHEDULE |
| SECT. | SECTION |
| SEOR. | STRUCTURAL ENGINEER OF RECORD |
| SEP. | SEPARATION |
| SIM. | SIMILAR |
| S.N. | SHEAR NAIL |
| S.P. | SEE PLAN |
| SPEC. | SPECIFICATION |
| SQ. | SQUARE |
| S.S. | STAINLESS STEEL |
| STD. | STANDARD |
| STGR. | STAGGER |
| STIFF. | STIFFENERS |
| STR. | STRUCTURAL |
| STR. I | STRUCTURAL I |
| T. | TOP |
| T&B | TOP & BOTTOM |
| T&G | TONGUE & GROOVE |
| THK. | THICKNESS/THICK |
| THR. | THREADED |
| T.N. | TOENAIL |
| T.O.P. | TOP OF PARAPET |
| T.O.S. | TOP OF SLAB |
| T.O.W. | TOP OF WALL |
| TYP. | TYPICAL |
| UBC | UNIFORM BUILDING CODE |
| U.N.O. | UNLESS NOTED OTHERWISE |
| V. | VERTICAL |
| VERT. | VERTICAL |
| V.S.H. | VERTICAL SLOTTED HOLES |
| WD. | WOOD |
| W.P. | WATERPROOF OR WORK POINT |
| W.P.J. | WEAKENED PLANE JOINT |
| WT. | WEIGHT |
| W.W.F. | WELDED WIRE FABRIC |
| W/ | WITH |
| W/O | WITHOUT |
| W.O. | WHERE OCCURS |
| XS | EXTRA STRONG (STEEL PIPE) |
| XXS | DOUBLE EXTRA STRONG (STEEL PIPE) |

## OSHPD GENERAL STRUCTURAL NOTES:

### GENERAL:

THE STRUCTURAL CONTRACT DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE STRUCTURE IS DESIGNED TO BE A STABLE UNIT AS A COMPLETED WHOLE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DESIGN, ERECT AND INSPECT TEMPORARY SHORES, BRACES, ETC. TO SUPPORT THE STRUCTURE AGAINST ALL ANTICIPATED LOADS INCLUDING GRAVITY, WIND AND LATERAL EARTH PRESSURE UNTIL ITS COMPLETION. OBSERVATION VISITS TO THE SITE BY THE STRUCTURAL ENGINEER SHALL NOT INCLUDE INSPECTION OF THESE METHODS OF CONSTRUCTION. CONSTRUCTION MATERIAL SHALL BE PLACED ON FRAMED FLOORS AND ROOFS SUCH THAT THE DESIGN LIVE LOADS ARE NOT EXCEEDED.

THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS AND SITE CONDITIONS PRIOR TO STARTING CONSTRUCTION. RESOLVE ANY DISCREPANCY WITH THE ARCHITECT.

WORKMANSHIP AND MATERIALS SHALL COMPLY WITH THE LATEST EDITIONS OF THE CALIFORNIA BUILDING CODE AND TESTING STANDARDS.

NOTES AND DETAILS ON THE DRAWINGS TAKE PRECEDENCE OVER THE GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS. WHERE NO SPECIFIC DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT. "TYPICAL" DETAILS ARE NOT FLAGGED ON THE DRAWINGS, BUT APPLY UNLESS NOTED OTHERWISE.

### COORDINATION:

ALL DRAWINGS ARE CONSIDERED TO BE PART OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE DRAWINGS AND SPECIFICATIONS AMONG THE SUBCONTRACTORS AND ARCHITECT PRIOR TO START OF CONSTRUCTION. ANY DISCREPANCIES THAT ARE FOUND SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO START OF CONSTRUCTION. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY CODE REQUIREMENTS SHALL BE CORRECTED BY THE CONTRACTOR AT HIS OWN EXPENSE AND AT NO EXPENSE TO THE OWNER OR ARCHITECT.

COORDINATION SHALL INCLUDE, BUT NOT BE LIMITED TO, VERIFYING THE LOCATION AND WEIGHT OF ALL MECHANICAL AND ELECTRICAL EQUIPMENT AS WELL AS THE SIZE AND LOCATION OF ALL MECHANICAL OPENINGS IN ROOFS, FLOORS AND WALLS. UNLESS OTHERWISE NOTED ON THE DRAWINGS, DO NOT PENETRATE ANY STRUCTURAL ELEMENTS SUCH AS BEAMS, COLUMNS, WALLS, SLABS, ETC. WITHOUT PRIOR WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER THROUGH THE ARCHITECT.

ALL DEPRESSIONS, ELEVATIONS AND SLOPES SHOULD BE COORDINATED WITH THE ARCHITECT AND PLANNED FINISHES. ALL WEATHER EXPOSED SURFACES SHOULD BE SLOPED TO DRAIN PER ARCHITECTURAL OR OTHER DRAWINGS.

COORDINATION SHALL INCLUDE, BUT NOT BE LIMITED TO, DETERMINING THE LOCATION OF ALL EXISTING UTILITY LINES THAT MAY INTERFERE WITH THE INSTALLATION OF THE NEW STRUCTURAL ELEMENTS. THE CONTRACTOR SHALL INFORM THE OWNER IF INTERFERENCE IS ENCOUNTERED. THE OWNER WILL DETERMINE IF THE LINES ARE TO BE REMOVED OR RELOCATED.

### SHOP DRAWINGS AND SUBMITTALS:

SHOP DRAWINGS AND SUBMITTALS TO THE ENGINEER ARE REQUIRED FOR ALL STRUCTURAL WORK, UNLESS OTHERWISE AGREED TO BY THE ARCHITECT/ENGINEER. NO WORK SHALL PROCEED WITHOUT THE REVIEW AND APPROVAL OF SHOP/ERECTION/LAYOUT DRAWINGS BY THE ARCHITECT AND ENGINEER. ALL SUBMITTALS SHALL BE MADE IN A TIMELY MANNER ALLOWING ADEQUATE TIME AS NEEDED BY THE ARCHITECT AND ENGINEER FOR REVIEW.

THE CONTRACTOR SHALL REVIEW AND APPROVE ALL SHOP DRAWINGS PRIOR TO ENGINEERING REVIEW. SUBMISSIONS FOR ENGINEERING REVIEW SHALL INCLUDE A REPRODUCIBLE AND ONE COPY; REPRODUCIBLE WILL BE MARKED AND RETURNED. ELECTRONIC SUBMITTALS MAY BE ACCEPTED.

ANY STRUCTURAL ENGINEERING DESIGN PROVIDED BY OTHERS SHALL BE SUBMITTED FOR REVIEW AND SHALL BEAR THE SEAL OF A CIVIL OR STRUCTURAL ENGINEER REGISTERED IN THE STATE IN WHICH THE PROJECT IS LOCATED.

TRADES PROVIDING SHOP DRAWINGS SHOULD PROPERLY COORDINATE WITH ALL OTHER ALL OTHER TRADES AND SHOW OTHER POSSIBLE CONFLICTS OR OVERLAPPING ELEMENTS FROM OTHER TRADES ON THEIR SUBMITTAL FOR REVIEW.

REQUIRED SHOP DRAWINGS AND SUBMITTALS:

ANCHOR BOLT LAYOUT AND MATERIAL SPECS

### INSPECTIONS AND SPECIAL INSPECTIONS:

THE OWNER SHALL EMPLOY A GENERAL INSPECTOR TO PROVIDE INSPECTION PER CAC CHAPTER 7 AND ALL HCAI REQUIREMENTS. ALL INSPECTORS SHALL BE APPROVED BY HCAI.

THE OWNER WILL EMPLOY AN HCAI APPROVED SPECIAL INSPECTOR TO PROVIDE INSPECTION OF THE FOLLOWING ITEMS PER CBC SECTION 1701A AND THE REQUIREMENTS OF HCAI:

POST-INSTALLED ANCHORS:
PERIODIC INSPECTION OF MECHANICAL POST-INSTALLED ANCHORS

### STRUCTURAL OBSERVATIONS:

STRUCTURAL OBSERVATION IS REQUIRED FOR THE STRUCTURAL SYSTEM IN ACCORDANCE WITH CBC CHAPTER 17A. STRUCTURAL OBSERVATION IS THE VISUAL OBSERVATION OF THE ELEMENTS AND CONNECTIONS OF THE STRUCTURAL SYSTEMS AT SIGNIFICANT CONSTRUCTION STAGES AND THE COMPLETED STRUCTURE FOR GENERAL CONFORMANCE TO THE APPROVED PLANS AND SPECIFICATIONS. STRUCTURAL OBSERVATION DOES NOT WAIVE THE RESPONSIBILITY FOR THE INSPECTIONS REQUIRED OF THE BUILDING INSPECTOR OR THE DEPUTY INSPECTOR. STRUCTURAL OBSERVATIONS SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF CAC CHAPTER 7 AND CBC CHAPTER 17A.

THE STRUCTURAL OBSERVER SHALL PERFORM SITE VISITS AT THOSE STEPS IN THE PROGRESS OF THE WORK THAT ALLOW FOR CORRECTION OF DEFICIENCIES WITHOUT SUBSTANTIAL EFFORT OR UNCOVERING OF THE WORK INVOLVED. AT A MINIMUM, THE FOLLOWING SIGNIFICANT CONSTRUCTION STAGES REQUIRE A SITE VISIT AND AN OBSERVATION REPORT FROM THE STRUCTURAL OBSERVER.

### CODE:

2019 CALIFORNIA BUILDING CODE

SEISMIC:

| | |
|---|---|
| SITE CLASS | "D" DEFAULT |
| IMPORTANCE FACTOR | 1.5 |
| SEISMIC DESIGN CATEGORY | D |
| RISK CATEGORY | IV |
| Sos | 1.2 |

SNOW LOADS DO NOT APPLY TO THIS SITE.
FLOOD LOADS DO NOT APPLY TO THIS SITE.
WIND LOADS DO NOT APPLY TO THIS PROJECT.

### DEFERRED APPROVALS:

ANY STRUCTURAL ENGINEERING DESIGN PROVIDED BY OTHERS SHALL BE SUBMITTED FOR REVIEW AND SHALL BEAR THE SEAL OF A CIVIL OR STRUCTURAL ENGINEER REGISTERED IN THE STATE IN WHICH THE PROJECT IS LOCATED. THE APPROVAL SHALL BE REVIEWED BY THE CONTRACTOR, SEOR, AOR AND HCAI.

DEFERRED APPROVALS:

SUPPORTS, ANCHORAGE, AND BRACING OF ALL DISTRIBUTION SYSTEMS INCLUDING BUT NOT LIMITED TO PIPING, DUCTWORK, CONDUIT, PNEUMATIC TUBE, FIRE SPRINKLERS, AND INLINE COMPONENTS SUCH AS VAV AND CAV AND FILTER BOXES.

ALL DISTRIBUTION SYSTEMS INCLUDING BUT NOT LIMITED TO PIPING, CONDUIT, AND DUCTWORK WILL BE ANCHORED AND BRACED USING MASON OPM-0043-13 OR A SIMILAR OPM UNLESS APPROVED AS A DEFERRED APPROVAL.

### STRUCTURAL STEEL:

ROLLED SHAPES OTHER THAN WIDE-FLANGE SHAPES,

| | |
|---|---|
| ALL PLATES, BARS AND RODS | ASTM A36, Fy = 36 KSI |
| ALL WIDE-FLANGE SHAPES | ASTM A992, Fy = 50 KSI |
| HSS STEEL | ASTM A500 GR. B |
| PIPE STEEL | ASTM A53, Fy = 35 KSI |
| BOLTS | ASTM A307 |
| ANCHOR BOLTS | ASTM A36 ROD STOCK OR F1554 GR. 36 |

FABRICATION AND ERECTION:

LATEST AISC AND AWS CODES APPLY. FABRICATE AND ERECT IN ACCORDANCE WITH LATEST EDITION OF AISC "SPECIFICATION FOR DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS". SPLICING OF STRUCTURAL MEMBERS IS NOT PERMITTED UNLESS NOTED ON THE DRAWINGS. ALL BEAMS SHALL BE ERECTED WITH THE NATURAL CAMBER UPWARDS.

ALL SURFACES FOR SLIP-CRITICAL BOLTED CONNECTIONS SHALL BE FREE OF PAINT, INCLUDING ANY INADVERTENT OVERSPRAY, IN AREAS CLOSER THAN ONE BOLT DIAMETER, BUT NOT LESS THAN ONE INCH, FROM THE EDGE OF ANY HOLE AND AT ALL AREAS WITHIN THE BOLT PATTERN.

WELDING:

ALL WELDING SHALL BE BY CERTIFIED WELDERS HAVING CURRENT EXPERIENCE IN TYPE OF WELD SHOWN ON DRAWINGS OR NOTES. CERTIFICATES SHALL BE THOSE ISSUED BY AN ACCEPTED TESTING AGENCY. ALL WELDING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF AWS "CODE FOR ARC AND GAS WELDING IN BUILDING CONSTRUCTION". USE E70 SERIES LOW HYDROGEN ELECTRODES. SHOP WELDS AND FIELD WELDS SHALL BE SHOWN ON SHOP DRAWINGS. ALL COMPLETE PENETRATION WELDS SHALL BE TESTED AND CERTIFIED BY AN INDEPENDENT TESTING AGENCY. ALL DEFORMED BAR ANCHORS, HEADED STUDS AND THREADED STUDS SHALL BE END WELDED PER MANUFACTURER'S RECOMMENDATIONS.

BOLTS:

ALL BOLTS, ANCHOR BOLTS, EXPANSION BOLTS, ETC., SHALL BE INSTALLED WITH STEEL WASHERS. USE TYPE X BOLTS U.N.O. PER LATEST EDITION OF AISC "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS" AND SHALL BE TIGHTENED TO THE SNUG-TIGHT CONDITION AS DEFINED BY AISC UNLESS NOTED OTHERWISE.

SNUG-TIGHT IS DEFINED AS THE TIGHTNESS ATTAINED BY A FEW IMPACTS OF AN IMPACT WRENCH OR THE FULL EFFORT OF A MAN USING AN ORDINARY SPUD WRENCH. SNUG TIGHTENING SHALL PROGRESS SYSTEMATICALLY FROM THE MOST RIGID PART OF THE CONNECTION TO THE FREE EDGES, AND THEN THE BOLTS OF THE CONNECTION SHALL BE RETIGHTENED IN A SIMILAR SYSTEMATIC MANNER AS NECESSARY UNTIL ALL BOLTS ARE SIMULTANEOUSLY SNUG TIGHT AND THE CONNECTION IS FULLY COMPACTED.

### EXPANSION ANCHOR BOLTS - CONCRETE:

EXPANSION BOLTS NOTED IN DRAWINGS ARE HILTI KB-TZ2 AND SHALL BE DESIGNED AND INSTALLED PER ESR-4266 U.N.O. FOR ANY PRODUCT SUBSTITUTION, CONTRACTOR SHALL PROVIDE CALCULATION SUBMITTAL FOR REVIEW BY SEOR SHOWING CAPACITY EQUIVALENT TO OR BETTER THAN SPECIFIED ANCHORS. ANY PRODUCT SUBSTITUTION MUST HAVE AN ICC REPORT.

HILTI KB-TZ2 CONCRETE ANCHORS ARE FOR USE IN CONCRETE HAVING A COMPRESSIVE STRENGTH OF 2500 PSI TO 8500 PSI.

ALL DRILLED HOLES SHALL BE BLOWN OUT BRUSHED AND BLOWN OUT WITH COMPRESSED AIR COMPLETELY BEFORE BOLT INSTALLATION PER ESR REPORT. UNCLEAN HOLE INSTALLATIONS ARE NOT PERMITTED ON THIS PROJECT.

WHEN INSTALLING ANCHORS IN NON-PRESTRESSED REINFORCED CONCRETE, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING BARS. WHEN INSTALLING ANCHORS INTO EXISTING PRESTRESSED CONCRETE (PRE- OR POST-TENSIONED) LOCATE THE PRESTRESSED TENDONS BY USING A NON-DESTRUCTIVE METHOD PRIOR TO INSTALLATION. EXERCISE EXTREME CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE TENDONS DURING INSTALLATION. MAINTAIN A MINIMUM CLEARANCE OF ONE INCH BETWEEN THE REINFORCEMENT AND THE DRILLED-IN ANCHOR.

ANY PANEL JOINTS, COLD JOINTS, OR WALL ENDS THAT OCCUR WITHIN 1.5 X EMBEDMENT OF THE ANCHOR SHALL BE REPORTED TO THE SEOR UNLESS THE MINIMUM EDGE DISTANCE IS SPECIFICALLY SHOWN IN A DETAIL.

ALL WALL ANCHOR TIES USING EXPANSION BOLT ANCHORS SHALL BE INSTALLED TIGHT TO THE WALL OR LEDGER. THERE SHALL BE NO GAP BETWEEN THE NUT AND STRAP OR STRAP AND WALL/LEDGER.

ALL WALL ANCHORS SHALL BE PROTECTED FROM WEATHER EXPOSURE. ANY EXPOSED EXTERIOR ANCHOR BOLTS SHALL BE STAINLESS STEEL. ANY STAINLESS STEEL SUBSTITUTIONS NOT SHOWN ON DRAWINGS SHALL BE APPROVED BY SEOR.

PERIODIC SPECIAL INSPECTION IS REQUIRED DURING ANCHOR INSTALLATION TO VERIFY ANCHOR TYPE, ANCHOR DIMENSIONS, CONCRETE TYPE, CONCRETE COMPRESSIVE STRENGTH, DRILL BIT TYPE, HOLE DIMENSIONS, HOLE CLEANING, CONCRETE THICKNESS, ANCHOR SPACING, EDGE DISTANCE, ANCHOR EMBEDMENT, TIGHTENING TORQUE, HOLE DIMENSIONS AND ADHERENCE TO THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS.

ALL ANCHORS SHALL BE TORQUED AS FOLLOWS FOR PROPER INSTALLATION: (HARDROCK OR LIGHTWEIGHT CONCRETE)

| BOLT DIAMETER (IN) | 1/4" | 3/8" | 1/2" | 5/8" | 3/4" |
|---|---|---|---|---|---|
| INSTALLATION TORQUE CARBON STEEL (FT-LBS) | 4 | 30 | 50 | 40 | 110 |
| INSTALLATION TORQUE STAINLESS STEEL (FT-LBS) | 6 | 30 | 40 | 60 | 125 |

TORQUE TEST NOTES:

TEST REQUIREMENTS AND FREQUENCY SHALL BE IN CONFORMANCE WITH CBC 1910A.5.

REACTION LOADS FROM TEST FIXTURES MAY BE APPLIED CLOSE TO THE ANCHOR BEING TESTED, PROVIDED THE ANCHOR IS NOT RESTRAINED FROM WITHDRAWING BY THE FIXTURE(S).

TEST EQUIPMENT SHALL BE CALIBRATED BY AN APPROVED TESTING LABORATORY IN ACCORDANCE WITH STANDARD RECOGNIZED PROCEDURES.

REQUIRED TEST LOADS SHALL BE EQUAL TO MANUFACTURER'S RECOMMENDED INSTALLATION TORQUE BASED ON AN APPROVED EVALUATION REPORT USING CRITERIA ADOPTED IN THIS CODE.

THE FOLLOWING CRITERIA APPLY FOR THE ACCEPTANCE OF INSTALLED ANCHORS: TORQUE WRENCH METHOD: THE APPLICABLE TEST TORQUE MUST BE REACHED WITHIN ONE-HALF (1/2) TURN OF THE NUT.

APPLY PROOF TEST LOADS TO ANCHORS WITHOUT REMOVING THE NUT IF POSSIBLE. IF NOT, REMOVE THE NUT AND INSTALL A THREADED COUPLER NUT TO THE SAME TIGHTNESS OF THE ORIGINAL NUT USING A TORQUE WRENCH AND APPLY LOAD.

IF ANY ANCHOR FAILS TESTING, NOTIFY THE SEOR FOR FURTHER TESTING FREQUENCY OR REVISED TEST LOADS.

SCOPE OF WORK:
1. SEISMIC ANCHORAGE OF NEW IMAGING EQUIPMENT.

| DWG NUMBER | SHEET TITLE |
|---|---|
| S0.1 | GENERAL NOTES |
| S2.0 | PARTIAL FIRST FLOOR PLAN |
| S5.1 | DETAILS |

**HCAi USE**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| | 04.21.23 | 2ND SUBMITTAL |
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HCAI# S222248-43-00

Job No: 22-0977
Scale: AS NOTED
Drawn by: MBH
Reviewed by: MH /JDW
Sheet Name:

GENERAL NOTES

DIGITAL IMAGING EQUIPMENT REPLACEMENT

Sheet No:
S0.1

04.21.2023 2ND SUBMITTAL

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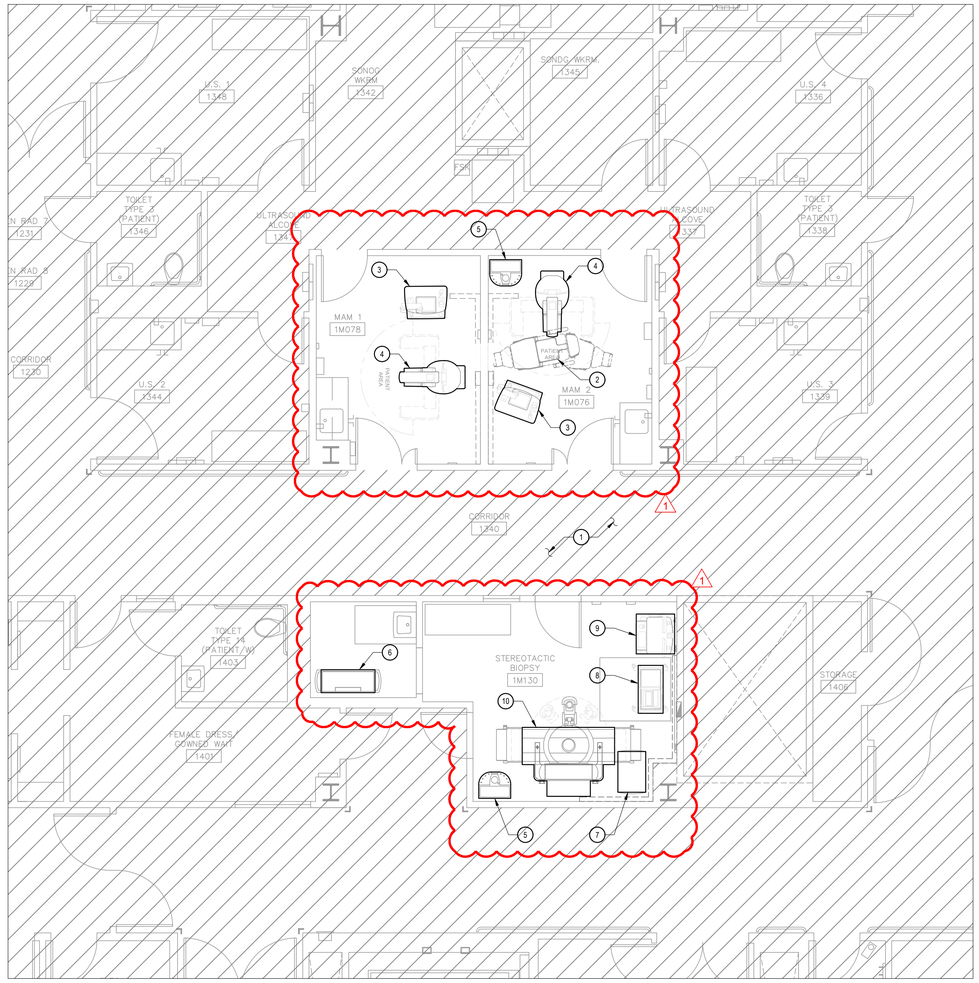



1 PARTIAL FIRST FLOOR PLAN SCALE: 1/4" = 1'-0"

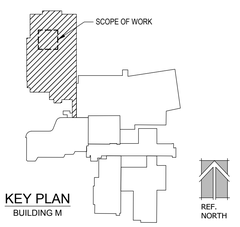
## KEYNOTES

1. (E) 2½" NORMAL WT. CONC. (F'c = 3000 PSI) OVER 3" METAL DECK, FIELD VERIFY.
2. AKRUS 5010 MAMMOGRAPHY POSITIONING CHAIR (MAX. WT. = 210 LBS.) EXEMPT FROM SEISMIC ANCHORAGE (MOBILE EQUIPMENT).
3. HOLOGIC 'SELENA DIMENSIONS' UNIVERSAL ACQUISITION WORKSTATION (MAX. WT. = 460 LBS.). FOR ANCHORAGE SEE 9/S5.1
4. HOLOGIC 'SELENA DIMENSIONS' GANTRY W/ C-ARM (MAX. WT. = 897 LBS.). FOR ANCHORAGE SEE 7/S5.1
5. SUROS ATEC BREAST BIOPSY AND EXCISION SYSTEM (MAX. WT. = 100 LBS.) EXEMPT FROM SEISMIC ANCHORAGE (MOBILE EQUIPMENT).
6. HOLOGIC 'AFFIRM' PRONE BIOPSY SYSTEM ACCESSORY CART. EXEMPT FROM SEISMIC ANCHORAGE (MOBILE EQUIPMENT).
7. HOLOGIC 'AFFIRM' PRONE BIOPSY SYSTEM GENERATOR (MAX. WT. = 300 LBS.) EXEMPT FROM SEISMIC ANCHORAGE (MOBILE EQUIPMENT).
8. HOLOGIC TRIDENT SPECIMEN RADIOGRAPHIC SYSTEM (MAX. WT. = 325 LBS.) EXEMPT FROM SEISMIC ANCHORAGE (MOBILE EQUIPMENT).
9. HOLOGIC 'AFFIRM' PRONE BIOPSY SYSTEM ACQUISITION WORKSTATION (MAX. WT. = 252 LBS.) EXEMPT FROM SEISMIC ANCHORAGE (MOBILE EQUIPMENT).
10. HOLOGIC 'AFFIRM' PRONE BIOPSY SYSTEM TABLE (MAX. WT. = 980 LBS.). FOR ANCHORAGE SEE 19/S5.1

## PLAN NOTES

1. FIELD VERIFY EXISTING CONDITIONS.
2. LOCATE NEW BOLTS AT LEAST 4" AWAY FROM EXISTING BOLT HOLES. IN THE EVENT OF A CONFLICT, NOTIFY SEOR IN WRITING FOR DIRECTION.

## KEY PLAN

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Job No: 22-0977
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Drawn by: MBH
Reviewed by: MH /JDW
Sheet Name:

PARTIAL FIRST FLOOR PLAN

DIGITAL IMAGING EQUIPMENT REPLACEMENT

Sheet No: S2.0

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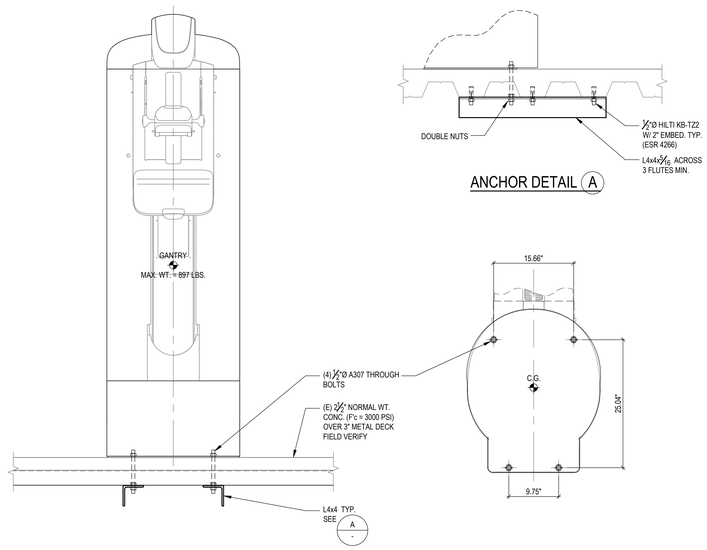
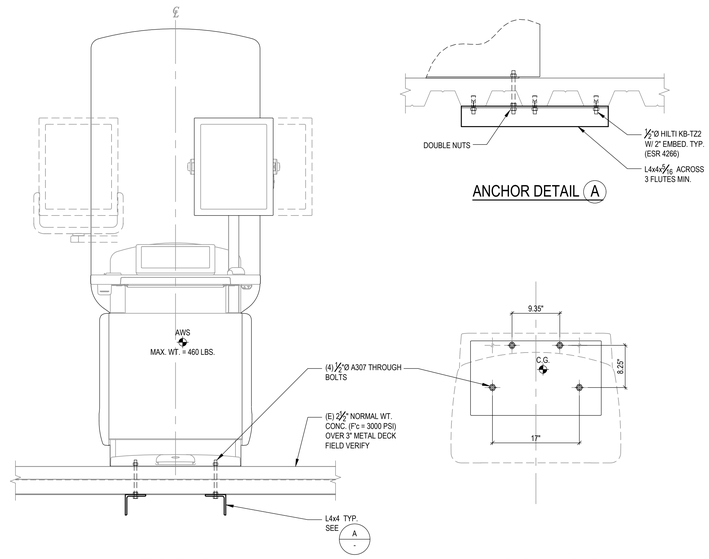
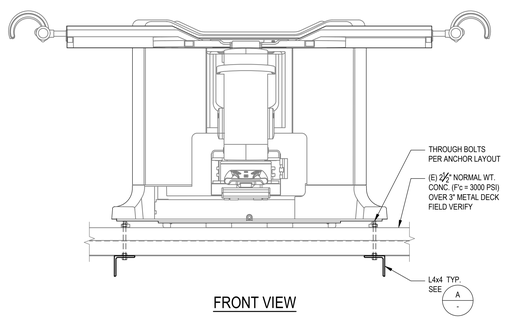



## 7 GANTRY ANCHORAGE DETAIL




## 9 UNIVERSAL ACQUISITION WORKSTATION ANCHORAGE DETAIL




## 19 PRONE BIOPSY SYSTEM TABLE ANCHORAGE DETAIL

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DETAILS

DIGITAL IMAGING EQUIPMENT REPLACEMENT

Sheet No:

S5.1

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## MEDICAL EQUIPMENT

| TAG | MANUFACTURER | MODEL | EQUIPMENT | HEAT LOAD BTU/HR | OPERATING TEMP. °F | OPERATING HUMIDITY % |
|---|---|---|---|---|---|---|
| MAM-1 | HOLOGIC | SELENIA | MAMMOGRAPHY | 6800 | 68-86 | 20-80 |
| MAM-2 | HOLOGIC | SELENIA | MAMMOGRAPHY | 6800 | 68-86 | 20-80 |
| BIO-1 | HOLOGIC | AFFIRM | BIOPSY | 7236 | 68-86 | 20-80 |
| | | | | | | |

## CMC TABLE 4-A COMPLIANCE SCHEDULE

| ROOM DATA | | | | | | | SUPPLY REQUIREMENTS | | EXISTING SUPPLY | | | | EXHAUST AIR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ROOM # | ARCHITECTURAL ROOM NAME | ROOM CLASSIFICATION | SERVED BY AHU # | ROOM AREA (SQ. FT) | ROOM HEIGHT | ROOM VOLUME (CU. FT) | MIN CFM REQ'D | | ACH PROVIDED | | CFM PROVIDED | | CFM PROVIDED |
| | | | | | | | OSA | TOTAL | OSA | TOTAL | OSA | TOTAL | |
| 1341 | MAM 2 | Class 1 Imaging Room | | 145 | 9 | 1305 | 131 | 131 | 6 | 6 | 270 | 270 | 270 |
| 1343 | MAM 1 | Class 1 Imaging Room | | 142 | 9 | 1278 | 128 | 128 | 6 | 6 | 270 | 270 | 270 |
| 1402 | TOILET TYPE 14 | Toilet Room | | 43 | 9 | 387 | 65 | 65 | 10 | 10 | 40 | 40 | 90 |
| 1404 | BIOPSY | Class 1 Imaging Room | | 191 | 9 | 1719 | 172 | 172 | 6 | 6 | 220 | 220 | 170 |

## PLUMBING GENERAL NOTES

SERVICE HOT WATER SYSTEM REQUIREMENTS:

A. ALL PLUMBING FIXTURES, FAUCETS AND SHOWER HEADS SHALL COMPLY WITH CPC MAXIMUM FLOW REQUIREMENTS PER MINUTE (1.8 GPM FOR FAUCETS, 1.8 GPM FOR SHOWER HEADS, 1.28 GPF FOR WATER CLOSETS, 0.125 GPF FOR URINALS). LAVATORY FAUCETS IN RESTROOMS SHALL BE OF THE SELF CLOSING TYPE AND SHALL NOT EXCEED A WATER FLOW OF 0.20 GALIUSE. PROVIDE WITH MIXING VALVE WITH TEMPERATURE SET AT 110° F.

B. ALL SERVICE HOT WATER PIPING SHALL BE INSULATED IN ACCORDANCE WITH SECTIONS 120.3, 120.7 & 120.9 OF THE 2019 CALIFORNIA BUILDING ENERGY EFFICIENCY STANDARDS.

MATERIALS

A. BUILDING DRAIN AND VENT PIPING MATERIALS SHALL COMPLY WITH SECTION 701.0 AND 903.0 OF THE 2019 CALIFORNIA PLUMBING CODE.

B. SERVICE HOT AND COLD WATER PIPING MATERIALS SHALL COMPLY WITH SECTION 604.0 OF THE 2019 CALIFORNIA PLUMBING CODE.

FLOOR SINKS AND FLOOR DRAINS

A. ALL FLOOR SINKS SHALL BE USED FOR A.C. CONDENSATE, P & T RELIEF VALVES, AND EQUIPMENT DRAINS ONLY. NO OTHER USES SHALL BE ALLOWED UNLESS APPROVED BY LOCAL BUILDING DEPARTMENT.

B. FLOOR DRAINS SHALL COMPLY WITH THE APPLICABLE STANDARDS REFERENCED IN CHAPTER 4, SECTION 418.0, TABLE 1401.1 OF THE 2019 CALIFORNIA PLUMBING CODE.

VENTS

A. EACH PLUMBING FIXTURE TRAP SHALL BE PROTECTED AGAINST SIPHONAGE AND BACKPRESSURE, AND AIR CIRCULATION SHALL BE ENSURED THROUGHOUT ALL PARTS OF THE DRAINAGE SYSTEM BY MEANS OF VENT PIPES INSTALLED IN ACCORDANCE WITH CHAPTER 9 OF THE 2019 C.P.C.

B. VENTS MUST RISE A MINIMUM 6" ABOVE THE FLOOD LEVEL RIM OF THE FIXTURES THEY SERVE BEFORE OFFSETTING HORIZONTALLY.

CROSS CONNECTION PROTECTION

A. CROSS CONNECTION PROTECTION SHALL BE PROVIDED AT ALL POTABLE WATER SUPPLIED APPLIANCES AND EQUIPMENT PER SECTION 603.0 OF THE 2019 C.P.C.

B. A WATER HEATER PRESSURE AND TEMPERATURE RELIEF DRAIN THAT TERMINATES OUTSIDE THE BUILDING SHALL COMPLY WITH SECTION 608.5 OF THE 2019 C.P.C.

NATURAL GAS VENTING

A. AN ACCESSIBLE SHUT-OFF VALVE MUST BE INSTALLED UPSTREAM OF THE REGULATOR AND VENTED TO THE EXTERIOR. 2019 C.P.C. 1208.8.

## PLUMBING LEGEND

| SYMBOL | ABBR. | DESCRIPTION |
|---|---|---|
| | W/S | WASTE OR SOIL PIPING BELOW GRADE |
| | W/S | WASTE OR SOIL PIPING BELOW GRADE |
| | W/S | WASTE OR SOIL PIPING ABOVE GRADE |
| | V | VENT PIPING |
| | CW | COLD WATER PIPING |
| | HW | HOT WATER PIPING |
| | HWR | HOT WATER RETURN PIPING |
| TP | TP | TRAP PRIMER LINE |
| CD | C | CONDENSATE DRAIN PIPING |
| G | G | NATURAL GAS PIPING |
| DI(S) | DI(S) | DEIONIZED WATER PIPING |
| DI(R) | DI(R) | DEIONIZED WATER RETURN PIPING |
| O2 | O2 | OXYGEN PIPING |
| MA | MA | MEDICAL AIR PIPING |
| MV | MV | MEDICAL VACUUM PIPING |
| RO | RO | REVERSE OSMOSIS |
| | | ZONE VALVE BOX |
| | S.O.V. | SHUT-OFF VALVE |
| | | SHUT-OFF VALVE ON RISER |
| | P.V. | PLUG VALVE |
| | C.V. | CHECK VALVE |
| | P.R.V. | PRESSURE REDUCING VALVE |
| | BAL. | BALANCING VALVE |
| | | STRAINER |
| | | UNION |
| | | REDUCER |
| | | DIRECTION OF FLOW |
| | F/G.C.O. | FLOOR OR GRADE CLEANOUT |
| | W.C.O. | WALL CLEANOUT |
| | P.O.C. | POINT OF CONNECTION |
| | | LIMITS OF DEMOLITION |
| | | CAP |
| | | PIPE UP |
| | | PIPE DOWN |
| | | HOSE BIB |
| | WHA | WATER HAMMER ARRESTER |
| | | SHEET NOTE |
| | | AUTOMATIC TRAP PRIMER |
| | B/F | BELOW FLOOR |
| | B/G | BELOW GRADE |

## MECHANICAL LEGEND

| SYMBOL | ABBR. | DESCRIPTION |
|---|---|---|
| | C.D. | CEILING DIFFUSER - SUPPLY AIR |
| | R.G. | RETURN AIR GRILLE |
| | T.A.G. | TRANSFER AIR GRILLE |
| | E.G. | EXHAUST AIR GRILLE |
| | S.A. | SUPPLY AIR DUCT |
| | R.A. | RETURN AIR DUCT |
| | E.A. | EXHAUST AIR DUCT |
| | - | DUCT WITH SOUND INSULATION |
| | F.D. | FIRE DAMPER |
| | F.S.D. | COMBINATION FIRE SMOKE DAMPER |
| | M.V.D. | MANUAL VOLUME DAMPER |
| | - | FLEXIBLE DUCT CONNECTION |
| | - | DUCT RISE / DUCT DROP |
| | - | CAPPED DUCT OR PIPE |
| | - | FLEXIBLE DUCT WORK |
| | - | DUCT WORK TRANSITION |
| U/C | U.C. | UNDERCUT DOOR 1" |
| T X | - | THERMOSTAT & EQUIP NUMBER |
| SD | - | SMOKE DETECTOR |
| | - | DIRECTION OF AIRFLOW |
| | O.A. | OUTSIDE AIR |
| | N.O. | NORMALLY OPEN |
| | N.C. | NORMALLY CLOSED |
| | P.D. | PRESSURE DROP |
| | C.A. | COMBUSTION AIR |
| | A.F.F. | ABOVE FINISHED FLOOR |
| | U.T.R. | UP THROUGH ROOF |
| | U.N.O. | UNLESS NOTED OTHERWISE |
| | SWS | SIDEWALL SUPPLY REGISTER |
| | SWR | SIDEWALL RETURN REGISTER |
| | W/ | WITH |
| | P.O.C. | POINT OF CONNECTION |
| | E.O.D. | END OF DEMOLITION |
| | - | SQUARE / RECTANGULAR DUCT CONTINUATION |
| | - | PIPE / ROUND DUCT CONTINUATION |

EQUIPMENT TYPE — FC — EQUIPMENT NUMBER — 1

DEMO — D
EXISTING — E
NEW — N

## MECHANICAL GENERAL NOTES

1. ALL HVAC SYSTEM SHALL MEET THE CONTROL REQUIREMENTS PER SECTION 110.2 & 120.2 OF THE STATE OF CALIFORNIA BUILDING ENERGY EFFICIENCY STANDARD (B.E.E.S.) 2019.
2. ALL DUCTWORK SHALL BE CONSTRUCTED, ERECTED AND TESTED IN ACCORDANCE WITH THE STANDARDS ADOPTED BY SMACNA AND CHAPTER 6 OF THE 2019 C.M.C.
3. ALL DOORS AND WINDOWS SHALL MEET THE MINIMUM INFILTRATION REQUIREMENTS PER SECTION 110.6 AND 110.7 B.E.E.S 2019.
4. ALL DUCTWORK AND PIPING SHALL BE INSULATED CONSISTENT WITH THE REQUIREMENTS OF 2019 C.M.C. INSULATION MATERIALS SHALL MEET THE CALIFORNIA QUALITY STANDARD PER SECTIONS 110.8 ENERGY EFFICIENCY STANDARDS (E.E.S.) 2019.
5. ALL HVAC EQUIPMENT AND APPLIANCES SHALL MEET THE REQUIREMENTS PER SECTIONS 110.1-110.3, 110.5 & 120.1-120.9 B.E.E.S 2019.
6. ALL HVAC SYSTEMS SHALL MEET THE VENTILATION REQUIREMENTS PER SECTION 120.1 B.E.E.S. 2019.
7. PROVIDE SMOKE DETECTORS IN THE SUPPLY DUCT AT HVAC SYSTEMS EXCEEDING 2000 CFM. FOR REQUIRED SHUT-OFF FOR SMOKE CONTROL AS PER C.M.C. 2019, SECTION 608.
8. HVAC SYSTEMS SERVING A SPACE WITH OVER 2000 CFM SHALL CONFORM TO CMC 2019 SECTION 608 - SHUT-OFF FOR SMOKE CONTROL. REFERENCE "AIR MOVING SYSTEM" DEFINITION IN UMC SECTION 203.
9. ALL MATERIAL EXPOSED WITHIN PLENUM SHALL HAVE A MOLD-HUMIDITY-, AND EROSION-RESISTANT FACE THAT MEETS U.L. 181.
10. ALL MATERIALS EXPOSED WITHIN DUCTS OR PLENUMS SHALL BE NONCOMBUSTIBLE OR SHALL HAVE A FLAME SPREAD INDEX NOT TO EXCEED 25 AND A SMOKE DEVELOPED INDEX NOT TO EXCEED 50 AS PER C.M.C. 2019 SECTION 602.2.
11. NO HAZARDOUS MATERIALS AS PER THE TYPES LISTED IN U.B.C. TABLES 3-D AND/OR 3-E, ARE PROPOSED TO BE USED AND/OR STORED WITHIN THE BUILDING.
12. ALL DUCT SIZES SHOWN ARE NET INSIDE DIMENSIONS.
13. DUCT AND PLENUM INSULATION SHALL BE IN ACCORDANCE WITH THE CALIFORNIA ENERGY COMMISSION (CEC) LATEST EDITION, THE STATE MECHANICAL CODE PART 4, TITLE 24, CALIFORNIA ADMINISTRATIVE CODE AND THE LATEST EDITION OF THE CALIFORNIA MECHANICAL CODE (CMC) SECTION 605. MATERIAL EXPOSED WITHIN A DUCT OR PLENUM SHALL COMPLY WITH SECTION 602.2 CMC 2019.
14. PROVIDE FLEXIBLE CONNECTIONS AT THE INLET AND OUTLET OF ALL FANS.
15. FIRE/SMOKE DAMPERS: REVIEW BOTH THE MECHANICAL AND ARCHITECTURAL PLANS FOR FIRE/SMOKE DAMPER REQUIREMENTS. FIRE/SMOKE DAMPERS SHALL BE INSTALLED AND BE READILY ACCESSIBLE FOR SERVICING IN THE LOCATIONS LISTED IN THE C.B.C., SECTION 713 AND SHALL BE IN ACCORDANCE WITH C.M.C. 2019, SECTION 605.
16. ALL OPENINGS IN FIRE WALLS DUE TO DUCTWORK, PIPING, CONDUIT, ETC., SHALL BE FIRE STOPPED.
17. FIRE/SMOKE DAMPER ASSEMBLIES, INCLUDING SLEEVES, AND INSTALLATION PROCEDURES SHALL BE APPROVED BY THE BUILDING INSPECTOR PRIOR TO INSTALLATION.
18. THE DRAWINGS ARE BASED ON INFORMATION OBTAINED FROM EXISTING PLANS, SPECIFICATIONS AND FIELD OBSERVATIONS. THE EXACT LOCATION OF EXISTING DUCTWORK, PIPING AND EQUIPMENT MAY DEVIATE FROM THE LOCATION INDICATED ON THESE DRAWINGS. BE PREPARED TO MAKE ALTERATIONS TO NEW AND/OR EXISTING SERVICES TO ACCOMMODATE ACTUAL JOB CONDITIONS.
19. APPLY THE SCHEMATIC DIAGRAMS, DETAILS, SCHEDULES AND THE SPECIFICATIONS TO THE PLANS.
20. THE DRAWINGS ARE DIAGRAMMATIC, AND THUS ALL ELBOWS, FITTINGS, ETC., IN PIPING AND DUCTWORK REQUIRED TO CLEAR ALL OBSTRUCTIONS ARE NOT NECESSARILY INDICATED. ALL NECESSARY TRANSITIONS, FITTINGS, AND OFFSETS ARE REQUIRED AS PART OF BASE BID, WHETHER SHOWN OR NOT.
21. PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE MECHANICAL SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS REQUIRED BY CODE.
22. INSTALL ALL MECHANICAL EQUIPMENT AND APPURTENANCES IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS, CONTRACT DOCUMENTS, AND APPLICABLE CODES AND REGULATIONS.
23. ALL CONTROL WIRE AND CONDUIT SHALL COMPLY WITH THE NATIONAL ELECTRIC CODE AND SPECIFICATIONS.
24. THE LOCATIONS OF ALL ITEMS SHOWN ON THE DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS THAT ARE NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE ONLY. THE EXACT LOCATIONS NECESSARY TO SECURE THE BEST CONDITIONS AND RESULTS MUST BE DETERMINED BY THE PROJECT SITE CONDITIONS AND SHALL HAVE THE APPROVAL OF THE ENGINEER BEFORE BEING INSTALLED. DO NOT SCALE DRAWINGS.
25. ALL MISCELLANEOUS STEEL REQUIRED TO ENSURE PROPER INSTALLATION AND AS SHOWN IN DETAILS FOR DUCTWORK AND EQUIPMENT (UNLESS OTHERWISE NOTED) SHALL BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR.
26. ALL EQUIPMENT, PIPING, DUCTWORK, ETC., SHALL BE SUPPORTED AS DETAILED, SPECIFIED, AND REQUIRED TO PROVIDE A VIBRATION FREE INSTALLATION.
27. LOCATIONS AND SIZES OF ALL FLOOR, WALL, AND ROOF OPENINGS SHALL BE COORDINATED WITH ALL OTHER TRADES INVOLVED.
28. CERTAIN ITEMS SUCH AS RISES AND DROPS IN DUCTWORK, ACCESS DOORS, VOLUME DAMPERS, ETC. ARE INDICATED ON THE CONTRACT DOCUMENT DRAWINGS FOR CLARITY FOR A SPECIFIC LOCATION REQUIREMENT AND SHALL NOT BE INTERPRETED AS THE EXTENT OF THE REQUIREMENTS FOR THESE ITEMS.
29. UNLESS OTHERWISE SHOWN, LOCATE ALL ROOM THERMOSTATS AND HUMIDISTATS 4'-0" (CENTERLINE) ABOVE FINISHED FLOOR. NOTIFY THE ENGINEER OF ANY ROOMS WHERE THE ABOVE LOCATION CANNOT BE MAINTAINED OR WHERE THERE IS A QUESTION ON LOCATION.
30. COORDINATE DIFFUSER, REGISTER, AND GRILLE LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS, LIGHTING, AND OTHER CEILING ITEMS AND MAKE MINOR DUCT MODIFICATIONS TO SUIT.
31. RUNS OF FLEXIBLE DUCT SHALL NOT EXCEED 5 FEET.
32. ALL DUCTWORK SHALL BE COORDINATED WITH ALL TRADES INVOLVED. OFFSETS IN DUCTS, INCLUDING DIVIDED DUCTS AND TRANSITIONS AROUND OBSTRUCTIONS, SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
33. PROVIDE ACCESS DOORS IN DUCTWORK FOR OPERATION, ADJUSTMENT, AND MAINTENANCE OF ALL FANS AND MECHANICAL EQUIPMENT.
34. ALL PENETRATIONS THROUGH RATED WALLS SHALL BE FIRESTOPPED. FIRESTOP AROUND OUTSIDE OF CONDUITS AND FIRESTOP INSIDE OF CONDUIT SLEEVES.
35. PROVIDE SMOKE DETECTORS IN MAIN SUPPLY AIR DUCTS OF AIR MOVING SYSTEMS EXCEEDING 2,000 CFM PER SECTION 608.0 CMC 2019.
36. PROVIDE DUCT LEAKAGE TESTING TO ENSURE THAT THE MEASURED LEAKAGE IS EQUAL TO OR LESS THAN 15% OF THE SYSTEM AIR HANDLER AIRFLOW AS CONFIRMED BY FIELD VERIFICATION AND DIAGNOSTIC TESTING UTILIZING THE PROCEDURES IN REFERENCE NONRESIDENTIAL APPENDIX SECTION NA2.1.4.2.1.
37. ALL MECHANICAL VENTILATION SYSTEMS ARE DESIGNED AND INSTALLED PER APPLICABLE SECTIONS OF CMC 2019 AND ASHRAE 170.

## SHEET INDEX


M0.1 GENERAL NOTES, LEGENDS, ABBREVIATIONS AND SCHEDULES

M1.0 OVERALL PLAN

M1.1 PARTIAL HVAC PLAN

P1.1 PARTIAL PLUMBING PLAN


## ABBREVIATIONS

| ABBREVIATION | DESCRIPTION | ABBREVIATION | DESCRIPTION |
|---|---|---|---|
| @ | AT | FT | FEET |
| A/C | ABOVE CEILING | GPM | GALLONS PER MINUTE |
| ABV | ABOVE | GPR | GAS PRESSURE REGULATOR |
| AD | AREA DRAIN | H&CW | HOT AND COLD WATER |
| AFF | ABOVE FINISHED FLOOR | HI/L | HIGH LEVEL |
| AFG | ABOVE FINISHED GRADE | HDR | HEADER |
| AFSR | AUTOMATIC FIRE SPRINKLER RISER | HPR | STEAM RETURN |
| | | HPS | STEAM SUPPLY |
| B/F | BELOW FLOOR | IN | INCHES |
| B/G | BELOW GRADE | L or LAV | LAVATORY |
| BEL | BELOW | MAX | MAXIMUM |
| BFP | BACKFLOW PREVENTER | MIN | MINIMUM |
| BTM | BOTTOM | MTD | MOUNTED |
| BV | BALL VALVE | NTS | NOT TO SCALE |
| CA | COMPRESSED AIR | OS & Y | OPEN SCREW AND YOKE |
| CI | CAST IRON | POC | POINT OF CONNECTION |
| CIP | CAST IRON PIPE | POD | POINT OF DISCONNECTION |
| CLG | CEILING | PSI | POUNDS PER SQUARE INCH |
| COTG | CLEAN-OUT TO GRADE | RD | ROOF DRAIN |
| CR | CONDENSATE RETURN | RI & C | ROUGH-IN AND CONNECT |
| CW | DOMESTIC COLD WATER | SOV | SHUT-OFF VALVE |
| CU | CUBIC DEPT DEPARTMENT | SQ | SQUARE |
| DF | DRINKING FOUNTAIN | SS | SERVICE SINK |
| DIA | DIAMETER | T/A | TO ABOVE |
| DN | DOWN | T/B | TO BELOW |
| DS | DOWNSPOUT | TP | TRAP PRIMER |
| DWG | DRAWING(S) | TYP | TYPICAL |
| EQUIP | EQUIPMENT | U | URINAL |
| EWC | ELECTRICAL WATER COOLER | UG | UNDERGROUND |
| EXIST / (E) | EXISTING | UON | UNLESS OTHERWISE NOTED |
| F/A | FROM ABOVE | VTR | VENT THRU ROOF |
| F/B | FROM BELOW | W/ | WITH |
| FCO | FLOOR CLEAN-OUT | WC | WATER CLOSET |
| FD | FLOOR DRAIN | WCO | WALL CLEAN-OUT |
| FF | FINISHED FLOOR | WH | WATER HEATER |
| FM | FORCE MAIN | WHA | WATER HAMMER ARRESTOR |
| FS | FLOOR SINK | | |

## SCOPE OF WORK

MECHANICAL AND PLUMBING SYSTEM DESIGN FOR MAMMOGRAPHY ROOMS 1343 AND 1341, BIOPSY ROOM 1404 AND ADJACENT PATIENT TOILET 1402.

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WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSION. CONTRACTORS SHALL VERIFY, AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND THIS OFFICE MUST BE NOTIFIED OF ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN BY THESE DRAWINGS. SHOP DETAILS MUST BE SUBMITTED TO THIS OFFICE FOR APPROVAL BEFORE PROCEEDING WITH FABRICATION.


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AOR 5.16.23

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CEI JOB No: #222687

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Job No: 22-0977
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GENERAL NOTES AND SCHEDULES

DIGITAL IMAGING EQUIPMENT REPLACEMENT

Sheet No:

M0.1

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1 OVERALL PLAN

SCALE: 3/32"=1'-0"

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OVERALL PLAN

DIGITAL IMAGING EQUIPMENT REPLACEMENT

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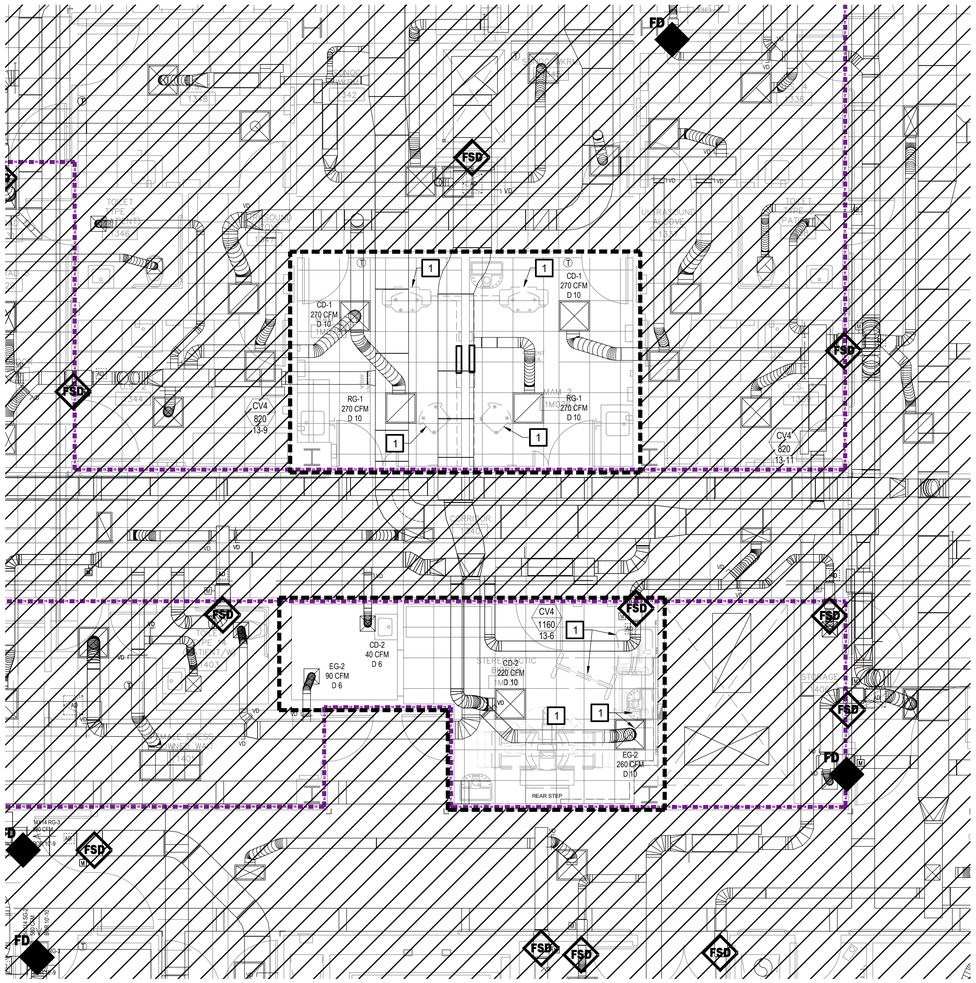
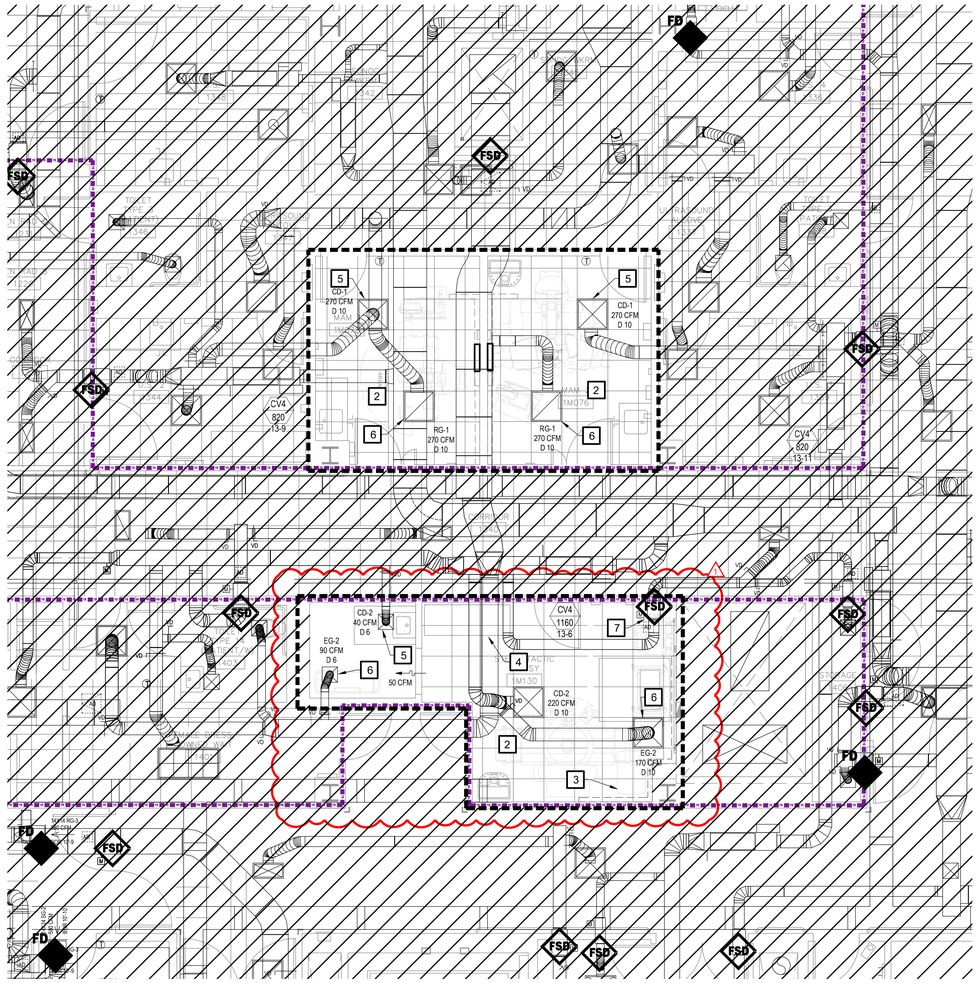



2 DEMOLITION FIRST FLOOR REFLECTED CEILING PLAN — SCALE: 1/4"=1'-0"




1 PROPOSED FIRST FLOOR REFLECTED CEILING PLAN — SCALE: 1/4"=1'-0"

## KEYNOTES

1. EXISTING EQUIPMENT TO BE REMOVED.
2. NEW BIOPSY AND MAMMOGRAM EQUIPMENT PROVIDED BY HOLOGIC. FINAL LAYOUT TO BE VERIFIED BY HOLOGIC. SHOWN FOR REFERENCE ONLY.
3. ATEC SAPPHIRE CONSOLE
4. TRIDENT HD SPECIMEN RADIOGRAPHY SYSTEM
5. EXISTING SUPPLY AIR DIFFUSER TO REMAIN.
6. EXISTING EXHAUST AIR GRILLE TO REMAIN.
7. EXISTING FSD TO REMAIN. (1)

## NOTES

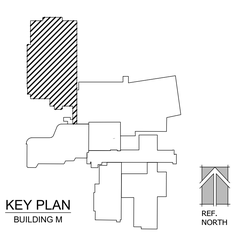
CONTRACTOR TO VERIFY THE INSTALLATION OF FIRE SMOKE DAMPERS IN ALL DUCTS PENETRATING FIRE RESISTANT WALLS.

PLAN LAYOUT, ROOM NAMES AND ROOM NUMBERS OUTSIDE AREAS OF WORK ARE SHOWN FOR REFERENCE ONLY AND ARE BASED ON PLANS PROVIDED BY THE FACILITY. GDG ARCHITECTS HAS NOT VERIFIED THE ACCURACY OF EXISTING CONDITIONS.

## SYMBOLS LEGEND

- NOT IN SCOPE
- (N) EQUIPMENT
- (E) WALLS
- (E) 1HR. FIRE PARTITION WALL

## KEY PLAN

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PARTIAL HVAC PLAN

DIGITAL IMAGING EQUIPMENT REPLACEMENT

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## GENERAL NOTES

A. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE CALIFORNIA CODE OF REGULATIONS, CALIFORNIA ELECTRICAL CODE 2019, CALIFORNIA ENERGY CODE 2019, AND ALL APPLICABLE LOCAL CODES AND REGULATIONS.

B. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED. FOLLOW DRAWINGS IN LAYING OUT WORK AND CHECK DRAWINGS OF OTHER TRADES RELATING TO WORK TO VERIFY SPACES IN WHICH WORK WILL BE INSTALLED. MAINTAIN HEADROOM AND MINIMUM CODE REQUIRED WORKING CLEARANCES AT ALL TIMES.

C. DURING BID, THE CONTRACTOR MUST EXAMINE THE COMPLETE SET OF DRAWINGS AND CONTRACT DOCUMENTS FOR ALL TRADES. COORDINATE AND VERIFY DIMENSIONS SPACE REQUIREMENTS AND POINTS OF CONNECTION TO ALL EQUIPMENT. MAKE ANY ADJUSTMENTS NECESSARY TO AVOID CONFLICTS WITH THE STRUCTURAL AND THE WORK OF OTHER TRADES.

D. THE CONTRACTOR IS ADVISED AND REMINDED THAT THEIR BEST EFFORTS AND THAT OF THE CONTRACTOR'S ORGANIZATION AND PERSONNEL ARE TO BE PROVIDED AS PART OF THE COORDINATED EFFORT INTENDED TO PROVIDE THE PROJECT OWNER AND THE ULTIMATE USERS AND OCCUPANTS WITH FINISHED PROJECT WHICH WILL SERVE ITS INTENDED PURPOSE.

E. CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL ELECTRICAL, MECHANICAL, PLUMBING AND ALL OTHER EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS PRIOR TO ANY WORK.

F. DEDICATED ELECTRICAL SPACE NEC 110.26(F): THE SPACE EQUAL TO THE WIDTH AND DEPTH OF THE EQUIPMENT AND EXTENDING FROM THE FLOOR TO A HEIGHT (6 FT) ABOVE THE EQUIPMENT OR TO THE STRUCTURAL CEILING, WHICHEVER IS LOWER, SHALL BE DEDICATED TO THE ELECTRICAL INSTALLATION. NO PIPING, DUCTS, LEAK PROTECTION APPARATUS, OR OTHER EQUIPMENT FOREIGN TO THE ELECTRICAL INSTALLATION SHALL BE LOCATED IN THIS ZONE.

G. SEE MECHANICAL AND PLUMBING DRAWINGS AND SPECIFICATION FOR ADDITIONAL CONNECTION REQUIREMENTS TO CONTROL PANELS AND TRANSFORMERS, 120V FOR CONTROL SYSTEM, SWITCHES, TIME CLOCK, VALVES, STATS, RELAYS, DUCT SMOKE DETECTOR LOCATION, VAV BOXES, SMOKE FIRE DAMPERS, AND ETC. CONTRACTOR SHALL VERIFY FINAL CONTROL WIRING REQUIREMENTS WITH DIVISION 22 & 23 PRIOR TO ANY WORK AND PROVIDE ALL NECESSARY WIRING, DEVICES AND CONNECTIONS AS REQUIRED.

H. CONTRACTOR SHALL EXTEND WIRING FROM ALL JUNCTION BOXES, SWITCHES, ETC. AND MAKE FINAL CONNECTIONS AS REQUIRED TO ALL OTHER EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS PRIOR TO ANY WORK.

I. THE CONTRACTOR SHALL VERIFY THE ACTUAL MOTOR AND APPLIANCE RATING AND LOADS IN ORDER TO PROVIDE CORRECT SIZED MOTOR RELATED ELECTRICAL COMPONENTS. THE CONTRACTOR SHALL SUBMIT TO ARCHITECT WITH REVISED DATA BEFORE INSTALLATION. ALL CHANGES SHALL BE SHOWN ON RECORD DRAWINGS.

J. ALL PANELS, SWITCHES, ETC. SHALL HAVE SUFFICIENT GUTTER SPACE AND LUGS IN COMPLIANCE WITH U.L. REQUIREMENTS TO ACCOMMODATE CONDUCTORS SHOWN.

K. WHERE WIRE SIZES ARE INDICATED ON PLANS, FOR INDIVIDUAL CIRCUITS, THE WIRE SIZE INDICATED SHALL APPLY TO THE COMPLETE CIRCUIT, UNLESS OTHERWISE NOTED.

L. LOCATION OF LOCAL WALL SWITCHES ARE SUBJECT TO MODIFICATIONS. AT OR NEAR DOORS, INSTALL SWITCHES ON SIDE OPPOSITE TO DOOR HINGES. VERIFY FINAL HINGE LOCATION IN FIELD PRIOR TO ANY WORK.

M. CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL WALL OUTLET BOXES FOR SWITCHES, STROBES/HORNS, STROBES, FIRE ALARM PULL STATIONS, RECEPTACLES, ETC. WITH TACK BOARDS, CABINETS, FURNITURE, EQUIPMENT ETC. TO AVOID CONFLICT.

N. WHERE ELECTRIC MOTORS OR EQUIPMENT ARE INSTALLED IN HUNG CEILING, PROVIDE DISCONNECT SWITCH IN HUNG CEILING WITHIN REACH FROM ACCESS POINT.

O. PROVIDE APPROVED EXPANSION FITTINGS WHERE RACEWAY CROSSES BUILDING EXPANSION JOINTS.

P. PROVIDE PULL WIRE IN EACH RACEWAY RUN OVER 10 FEET IN LENGTH, IN WHICH PERMANENT WIRING IS NOT INSTALLED.

Q. NOT MORE THAN THREE LIGHTING OR CONVENIENCE OUTLET CIRCUITS ARE PERMITTED IN ONE CONDUIT, UNLESS OTHERWISE INDICATED PROVIDE SEPARATE CONDUIT FOR EACH HOME RUN INDICATED ON THE DRAWING.

R. ALL EXTERIOR ELECTRICAL DEVICES AND EQUIPMENT EXPOSED TO OUTSIDE ENVIRONMENT SHALL BE WEATHERPROOF TYPE, NEMA 3R.

S. LIGHTING, POWER, TELEPHONE AND COMMUNICATIONS OUTLETS SHALL NOT BE PLACED BACK TO BACK. OUTLETS SHALL BE HORIZONTALLY SEPARATED MIN. OF 24" FOR RATED WALL AND MIN. OF 18" FOR NON-RATED WALL.

T. PROVIDE PULL BOXES WHEREVER NECESSARY TO FACILITATE PULLING OF CONDUCTORS. COORDINATE LOCATIONS OF BOXES WITH OTHER TRADES TO AVOID CONFLICT. PULL BOXES SHALL BE ACCESSIBLE. THE SIZE OF PULLBOX SHALL COMPLY WITH CEC REQUIREMENTS.

U. OUTLET BOXES FOR FIXTURES RECESSED IN HUNG CEILING SHALL BE ACCESSIBLE THROUGH OPENING OPERATED BY REMOVAL OF FIXTURES.

V. WHERE MORE THAN ONE LIGHT SWITCH OCCURS AT SAME LOCATION, SWITCHES SHALL BE MOUNTED IN A MULTIPLE GANG BOX UNDER A SINGLE COVER PLATE. PLATES WITH MORE THAN (3) LIGHT SWITCHES SHALL BE LABELED TO INDICATE THE LIGHT FIXTURES CONTROLLED. SWITCH(ES) CONTROLLING LIGHTS ON EMERGENCY CIRCUIT SHALL BE IN A SEPARATE BOX UNDER THE SAME COVER PLATE AS THE OTHER SWITCHES.

W. PROVIDE GREEN GROUNDING CONDUCTOR IN EACH RACEWAY INCLUDING CONDUITS, PLUG STRIPS, ETC. SIZE OF GROUNDING CONDUCTOR SHALL BE IN ACCORDANCE WITH CALIFORNIA ELECTRIC CODE ARTICLE 250.122.

X. PROVIDE #10 CONDUCTORS FOR ALL 20 AMPS CIRCUITS LONGER THAN 100' AND #8 CONDUCTORS FOR CIRCUITS LONGER THAN 225'. CONTRACTOR SHALL ADJUST THE SIZE OF CONDUITS ACCORDINGLY.

Y. FEEDER LENGTH SHOWN ON DRAWINGS ARE FOR VOLTAGE DROP CALCULATION AND NOT TO BE USED FOR COST ESTIMATING.

Z. WHERE CONDITIONS ARE SHOWN AS EXISTING, THEY ARE BASED ON THE BEST INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE DRAWINGS/DOCUMENTS. NO WARRANTY IS IMPLIED AS TO THE ACCURACY. CONTRACTOR IS TO FIELD VERIFY ALL CONDITIONS. SHOULD FIELD CONDITIONS DIFFER FROM THOSE SHOWN, THEY SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO BID. THE ENGINEER WILL THEN PROVIDE ADDITIONAL INFORMATION NEEDED TO ACCOMPLISH THE DESIRED RESULT.

AA. CONTRACTOR SHALL PERMANENTLY LABEL CIRCUIT AND PANEL NAME ON ALL OUTLETS.

AB. FUSES SHALL BE PROVIDED WITH REJECTION TYPE FUSE HOLDERS.

AC. CONTRACTOR SHALL LABEL ALL SWITCHED RECEPTACLES PER TITLE 24 REQUIREMENTS. FOR EACH FULL SWITCHED RECEPTACLE PROVIDE TWO LABELS, ONE ON EACH CORNER (TOP RIGHT AND BOTTOM RIGHT). FOR EACH HALF SWITCHED RECEPTACLE PROVIDE ONE LABEL ON TOP RIGHT CORNER. REFER TO LIGHTING CONTROL DIAGRAMS FOR VISUAL REPRESENTATION.

AD. ALL ELECTRICAL EQUIPMENT SHALL BE LISTED BY U.L. OR CITY OF SAN JOSE APPROVED THIRD PARTY TESTING FACILITY.

## ELECTRICAL LEGEND

### GENERAL

- JUNCTION BOX CEILING MOUNTED
- JUNCTION BOX WALL MOUNTED +18"AFF, U.O.N.
- JUNCTION BOX FLUSH IN FLOOR
- ENCLOSED CIRCUIT BREAKER
- MD — MOTION DETECTOR
- R — RELAY
- RR — RECEPTACLE CONTROL RELAY
- RC — ROOM CONTROLLER
- EMR — EMERGENCY RELAY
- TC — TIME CLOCK
- PUSH BUTTON
- DC — DOOR CONTACT
- CONTACTOR
- BUZZER
- START/STOP SWITCH
- MOTOR
- DISCONNECT SWITCH
- FUSED DISCONNECT SWITCH
- MOTOR CONTROLLER OR STARTER
- COMBINATION CONTROLLER/DISCONNECT SWITCH

### WIRES AND RACEWAYS

- CONCEALED CONDUIT IN WALL OR CEILING
- CONCEALED CONDUIT BELOW FINISHED FLOOR/GRADE
- CONDUIT OR RACEWAY TURNED UP
- CONDUIT OR RACEWAY TURNED DOWN
- CONDUIT STUB OUT, CAP-OFF
- CONDUIT CONTINUATION
- HOMERUN CONDUIT
  LONG STROKES INDICATE NEUTRAL CONDUCTOR, SHORT STROKES INDICATE PHASE OR SWITCHED CONDUCTOR, LONG STROKES WITH DOT INDICATES GROUNDING CONDUCTOR. 3/4"CONDUIT MIN. (U.O.N.), #12 AWG CONDUCTOR MIN. (U.O.N.)
- (3)"C",#8,1#8G — 3 SETS OF ONE INCH CONDUIT WITH THREE NUMBER EIGHT WIRE AND ONE NUMBER EIGHT GROUND.

### COMMUNICATIONS (+18" AFF, U.O.N.)

- TELEPHONE OUTLET WITH 1"CONDUIT UP TO ACCESSIBLE CEILING, U.O.N.
- DATA OUTLET WITH 1"CONDUIT UP TO ACCESSIBLE CEILING, U.O.N.
- COMBINATION TELEPHONE/DATA OUTLET WITH 1"CONDUIT UP TO ACCESSIBLE CEILING, U.O.N.
- FLOOR MOUNTED COMBO TELEPHONE/DATA OUTLET WITH 1"CONDUIT UP TO ACCESSIBLE CEILING, U.O.N.
- WIRELESS ACCESS POINT
- CR — CARD READER
- TV — TELEVISION OUTLET
- CAMERA (CCTV)
- S — SPEAKER
- TELEPHONE TERMINAL BACKBOARD

### SWITCHES (+48" AFF, U.O.N.)

- $ — SINGLE POLE SWITCH
- $3 — THREE-WAY SWITCH
- $4 — FOUR-WAY SWITCH
- $P — SWITCH & PILOT LIGHT
- $K — KEY OPERATED SWITCH
- $D — DIMMER SWITCH
- $M — THERMAL OVERLOAD SWITCH
- $T — TIMER SWITCH
- $g — LOWER CASE LETTER INDICATES SWITCHING
- LOW VOLTAGE SWITCH (SAME ABBREVIATIONS APPLY AS ABOVE)
- OCCUPANCY SENSOR SWITCH (SAME ABBREVIATIONS APPLY AS ABOVE)
- CEILING MOUNTED OCCUPANCY SENSOR
- CEILING MOUNTED DAYLIGHT SENSOR

### ANNOTATION TAGS AND NOMENCLATURE

- (#) — SHEET NOTE SYMBOL
- (#) — REVISION DELTA
- # / ## — DETAIL CALLOUT TAG. # DESIGNATES DETAIL NUMBER, ## DESIGNATES SHEET ON WHICH DETAIL IS LOCATED
- ## / # — MECHANICAL EQUIPMENT CALLOUT TAG. ## DESIGNATES UNIT TYPE, # DESIGNATES UNIT NUMBER.

### RECEPTACLES (+18" AFF, U.N.O.)

- SIMPLEX RECEPTACLE
- DUPLEX RECEPTACLE
- HALF-SWITCHED DUPLEX RECEPTACLE
- CEILING MOUNTED DUPLEX RECEPTACLE
- DOUBLE DUPLEX RECEPTACLE
- HALF-SWITCHED DOUBLE DUPLEX RECEPTACLE
- SPECIAL PURPOSE OUTLET (TYPE AS NOTED)
- FLOOR MOUNTED DUPLEX RECEPTACLE
- FLOOR MOUNTED DOUBLE DUPLEX RECEPTACLE
- MULTIOUTLET ASSEMBLY
- POWER COMMUNICATIONS POLE WITH BARRIER
- FLOOR MOUNTED COMBINATION RECEPTACLE & TELE/DATA

NOTE:
ALL RECEPTACLES SHALL BE 20AMP, 120V, U.O.N.

### FIRE ALARM SYSTEM

- FACP — FIRE ALARM CONTROL PANEL
- FAA — FIRE ALARM ANNUNCIATOR
- FAPS — FIRE ALARM POWER SUPPLY
- FATC — FIRE ALARM TERMINAL CABINET
- MANUAL FIRE ALARM PULL STATION
- FIRE ALARM HORN
- FIRE ALARM HORN AND STROBE
- FIRE ALARM STROBE
- BELL
- DH — DOOR HOLDER
- FS — FLOW SWITCH
- TS — TAMPER SWITCH
- H — HEAT DETECTOR
- S — SMOKE DETECTOR
- S — SMOKE/CARBON DETECTOR
- S — SMOKE DUCT DETECTOR
- S$_{SC}$ — SELF CONTAINED 120 VOLT SMOKE DETECTOR
- SFD — SMOKE FIRE DAMPER
- CM — CONTROL MODULE
- MM — MONITOR MODULE
- PIV — POST INDICATOR VALVE
- B$_T$ — BEAM DETECTOR TRANSMITTER
- B$_R$ — BEAM DETECTOR RECEIVER

### LIGHTING FIXTURES

- DOWNLIGHT/PENDANT LIGHT FIXTURE
- LINEAR WALL MOUNTED LIGHT FIXTURE
- WALL SCONCE
- 2'x4' LIGHT FIXTURE
- STRIP LIGHT FIXTURE
- POLE AND POLE MOUNTED LIGHT FIXTURES NUMBER OF HEADS AS SHOWN
- BOLLARD/INGRADE LIGHT
- TRACK LIGHT
- FLOOD LIGHT
- WALL WASHER, ARROW INDICATES AIM
- EXIT SIGN, SHADING INDICATES FACE, ARROWS AS INDICATED
- BATTERY PACK, NUMBER OF HEADS AS SHOWN
- EMERGENCY 2'x4' LIGHT FIXTURE
- EMERGENCY DOWNLIGHT/PENDANT LIGHT FIXTURE
- EMERGENCY STRIP LIGHT FIXTURE
- NL — NL = NIGHT LIGHT (CONNECT TO UNSWITCHED LEG OF CIRCUIT)

### PANELS AND RELATED ITEMS

- PANELBOARD – SURFACE
- PANELBOARD – RECESSED
- T — TRANSFORMER
- SWITCHBOARD OR DISTRIBUTION BOARD QUANTITY OF SECTIONS REQUIRED SHOWN

### DEVICE MOUNTING HEIGHTS

REFER TO ELECTRICAL SPECIFICATIONS FOR MORE INFORMATION. DIMENSIONAL NUMBERS SHOWN ADJACENT TO SYMBOLS INDICATE THE CENTERLINE OF DEVICE MOUNTING HEIGHTS.

NOTE: NOT ALL SYMBOLS ARE USED ON THIS PROJECT.

### SINGLE LINE DIAGRAM

- CIRCUIT BREAKER
- BREAKER WITH DRAWOUT FEATURE
- CONTACT (NORMALLY OPEN)
- CONTACT (NORMALLY CLOSED)
- C — OPERATING COIL
- FUSE
- FUSED SWITCH
- SWITCH
- POWER TRANSFORMER
- CURRENT TRANSFORMER
- M — POWER UTILITY METER
- SM — POWER NON UTILITY SUB METER
- G — GENERATOR
- GROUND
- GFI — GROUND FAULT SENSOR
- N — NEUTRAL BUS
- G — GROUND BUS
- AUTOMATIC TRANSFER SWITCH
- XXX — FEEDER TAG

### ABBREVIATIONS

| | |
|---|---|
| A,AMP | AMPERE(S) |
| AC | ALTERNATING CURRENT |
| AFF | ABOVE FINISH FLOOR |
| AFG | ABOVE FINISHED GRADE |
| AL | ALUMINUM |
| ALT | ALTERNATE |
| ATS | AUTOMATIC TRANSFER SWITCH |
| AWG | AMERICAN WIRE GAUGE |
| BC | BARE COPPER |
| BLDG | BUILDING |
| C | CONDUIT |
| CB | CIRCUIT BREAKER |
| CCTV | CLOSED CIRCUIT TELEVISION |
| CKT | CIRCUIT |
| CLG | CEILING |
| CT | CURRENT TRANSFORMER |
| CTR | COUNTER |
| CU | COPPER |
| CW | COLD WATER |
| (D) | DEMO, EXISTING TO BE REMOVED |
| DEF | DUAL ELEMENT FUSE |
| DISC | DISCONNECT |
| DN | DOWN |
| DP | DOUBLE POLE |
| DT | DOUBLE THROW |
| DWG | DRAWING |
| (E) | EXISTING TO REMAIN |
| EC | ELECTRICAL CONTRACTOR |
| EA | EACH |
| EC | EMPTY CONDUIT |
| EIA | ELECTRONIC INDUSTRIES ASSOCIATION |
| ELEC | ELECTRICAL OR ELECTRIC |
| ELEV | ELEVATOR |
| EM | EMERGENCY |
| EMT | ELECTRICAL METALLIC TUBING |
| EOL | END OF LINE RESISTOR |
| EWC | ELECTRICAL WATER COOLER |
| F | FUSE |
| FAA | FIRE ALARM REMOTE ANNUNCIATOR PANEL |
| FACP | FIRE ALARM CONTROL PANEL |
| FBO | FURNISHED BY OTHERS |
| FC | FOOT CANDLE |
| FLR | FLOOR |
| FT | FOOT OR FEET |
| GC | GENERAL CONTRACTOR |
| GEN | GENERATOR |
| GFI | GROUND FAULT INTERRUPTER |
| GND, G | GROUND |
| HID | HIGH INTENSITY DISCHARGE |
| HP | HORSEPOWER |
| HZ | FREQUENCY CYCLES PER SECOND |
| IC | INTERCOM |
| IG | ISOLATED GROUND CONDUCTOR |
| IMC | INTERMEDIATE METALLIC CONDUIT |
| IN | INCH |
| J-BOX | JUNCTION BOX |
| K | KIRK KEY INTERLOCKED |
| KCM | THOUSAND CIRCULAR MIL(S) |
| KV | KILOVOLT |
| KVA | KILOVOLT AMPERE(S) |
| KVAR | KILOVAR(S) |
| KW | KILOWATT(S) |
| KWHR | KILOWATT HOUR |
| LCL | LONG CONTINUOUS LOAD |
| LTG | LIGHTING |

### ABBREVIATIONS CONTINUED

| | |
|---|---|
| MAX | MAXIMUM |
| MCC | MOTOR CONTROL CENTER |
| MH | MANHOLE |
| MIN | MINIMUM |
| MTD | MOUNTED |
| MTR | MOTOR |
| MTS | MANUAL TRANSFER SWITCH |
| N.C. | NORMALLY CLOSED |
| N.O. | NORMALLY OPEN |
| NF | NON FUSED |
| NEC | NATIONAL ELECTRICAL CODE |
| NEGL. | NEGLIGIBLE |
| # | NUMBER |
| NTS | NOT TO SCALE |
| NL | NIGHT LIGHT |
| NIC | NOT IN CONTRACT |
| OC | ON CENTER |
| OL | OVERLOAD ELEMENT |
| PB | PULL BOX |
| PF | POWER FACTOR |
| PH, ø | PHASE |
| PNL | PANEL |
| PT | POTENTIAL TRANSFORMER |
| P | POLE |
| PVC | POLYVINYL CHLORIDE |
| (R) | EXISTING TO BE RELOCATED |
| RMS | ROOT MEAN SQUARE |
| SHT | SHEET |
| SMR | SURFACE METAL RACEWAY |
| SP | SINGLE POLE |
| SPEC | SPECIFICATIONS |
| ST | SINGLE THROW |
| SW | SWITCH |
| SWBD | SWITCHBOARD |
| TC | TIME CLOCK |
| TEL | TELEPHONE |
| TEMP | TEMPORARY |
| TIA | TELECOMMUNICATIONS INDUSTRY ASSOCIATION |
| TSTAT | THERMOSTAT |
| TTB | TELEPHONE TERMINAL BOARD |
| TTC | TELEPHONE TERMINAL CABINET |
| TV | TELEVISION |
| TYP | TYPICAL |
| UG | UNDERGROUND |
| UH | UNIT HEATER |
| UON | UNLESS NOTED OTHERWISE |
| UPS | UNINTERRUPTED POWER SUPPLY |
| V | VOLT(S) |
| VA | VOLT AMP(S) |
| VAR | REACTIVE VOLT AMPERES |
| VP | VAPOR PROOF |
| W/ | WITH |
| W/O | WITHOUT |
| W | WATT(S) |
| WP | WEATHERPROOF |
| XFMR | TRANSFORMER |
| XP | EXPLOSION PROOF |

## SCOPE OF WORK:

RENOVATION OF EXISTING SPACE. REPLACE EXISTING IMAGING EQUIPMENT WITH NEW AND PROVIDE POWER.

## ELECTRICAL SHEET INDEX


| | |
|---|---|
| E0.1 | GENERAL NOTES, LEGEND, AND SHEET INDEX |
| E0.2 | ELECTRICAL SPECIFICATIONS |
| E1.0 | FIRST FLOOR OVERALL PLAN |
| E3.1 | ENLARGED POWER PLAN |
| E5.1 | SINGLE LINE DIAGRAM AND SCHEDULES |


**HCAi USE**

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Department of Health Care Access & Information
Office of Statewide Hospital Planning & Development
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WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSION. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB. THE ARCHITECT MUST BE NOTIFIED OF ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN BY THESE DRAWINGS. SHOP DETAILS MUST BE SUBMITTED TO THIS OFFICE FOR APPROVAL BEFORE PROCEEDING WITH FABRICATION.


ARCHITECT'S STAMP

AOR 5.16.23

CONSULTANT'S STAMP

REGISTERED PROFESSIONAL ENGINEER — No. E 22007 — ELECTRICAL — STATE OF CALIFORNIA


LAZ DESIGN ENGINEERS
1314 West Glenoaks Blvd. Ste 205 | Glendale, CA 91201 | 818.937.9229


SANTA CLARA VALLEY MEDICAL CENTER Hospital & Clinics

### REVISIONS

| NO. | DATE | DESCRIPTION |
|---|---|---|
| | 12.29.22 | 1ST SUBMITTAL |
| | 04.20.23 | 2ND SUBMITTAL |

HCAi #:
S222248-43-00

| | |
|---|---|
| Job No: | 22-0977 |
| Scale: | NONE |
| Drawn by: | HM |
| Reviewed by: | ZA |

Sheet Name:

GENERAL NOTES, LEGEND AND SHEET INDEX

DIGITAL IMAGING EQUIPMENT REPLACEMENT

Sheet No:

E0.1

# ELECTRICAL SPECIFICATIONS

PART 1 – GENERAL

A. SCOPE

1. Furnish and install a completely wired and operational electrical system as shown on the drawings and specified herein, including but not limited to, these major items.
   a. Lighting fixtures as indicated and specified on the plans.
   b. Electrical panels, controls, service, disconnects, conduit wiring, etc., for all outlets and equipment.
   c. Telephone outlets and conduit as indicated.
   d. Conduit and outlets for alarm, computer, and security systems as indicated.
   e. Control wiring for electrical systems.
2. Provide permits and inspections as required.

B. CODES, REGULATIONS AND STANDARDS

1. The installation shall comply with applicable local and state codes and ordinances, with the regulations of the latest adopted edition of the following codes and with the requirements of the power and telephone companies furnishing services to this installation.
2. The following industry standards, specifications and codes are minimum requirements:
   a. NEMA–National Electrical Manufacturer's Association Standards
   b. NEC–National Electrical Code
   c. UL–Underwriter Laboratories Incorporated Standards
   d. ANSI–American National Standards Institute
   e. IEEE–Institute of Electrical and Electronics Engineers
   f. NESC–National Electrical Safety Code
   g. TITLE 24–California Energy Commission
   h. CEC–California Electrical Code

C. INSPECTION OF SITE

1. Prior to submitting a bid for electrical work, the Electrical Contractor shall visit the site of the proposed construction and shall thoroughly acquaint himself with existing utilities and working conditions to be encountered, etc. Allowance will not be made for non–compliance with this condition after bidding.

D. GENERAL WORKMANSHIP

1. All work shall be executed and finished in a practical manner and shall present a neat and workmanlike appearance when completed.
2. All work must be acceptable to the Owner. Where a detailed method of installing the work is not specified or indicated, install work as directed by the Owner.

E. RELATED WORK BY OTHERS

1. Electrical drawings identify utility service requirements for power, telephone, and cable TV within and up to five feet outside the building. Utility electrical service transformer(s), where shown on the site plan, are for information only and indicate the preferred point of service. Utility conduit systems, pullboxes, and other structures, where shown on the site plan, are also for information only and indicate the preferred routing. The Electrical Contractor shall refer to utility service drawings for actual utility service requirements for this project. Utility systems shall be constructed in accordance with the approved utility service drawings. It shall be the Electrical Contractor's responsibility to contact and follow–up with all utility companies to obtain both preliminary and final design drawings for this project.
   a. The Electrical Contractor shall coordinate the installation of the electrical service entrance, meet all power company requirements and shall pay all utility company charges.
   b. The local telephone company will furnish and install all telephone wiring and equipment and will make all final telephone connections. The Electrical Contractor shall coordinate the installation of the telephone service entrances, meet all telephone requirements and shall pay all utility company charges.
   c. The Electrical Contractor shall coordinate the installation of the cable service entrance, meet all cable company requirements and shall pay all utility company charges.

F. COOPERATION WITH OTHER CONTRACTORS

1. Cooperate with the other trades so that the installation of the electrical outlets and equipment will be properly coordinated. Conduit, fixtures, and other equipment locations shall be checked with the other trades to avoid conflict with the piping, ductwork, steel, beams, or other obstructions.
2. Carefully check the locations of the outlet boxes and determine that they have not been disturbed during the installation of materials of other trades.
3. Coordinate the location of trenches and conduits for utility services and other disciplines with the General Contractor.

G. MECHANICAL AND ELECTRICAL COORDINATION

1. Any device which carries the full load current of the electrically driven machinery, as opposed to the control of instrumentation current in the holding coil, is a power circuit and is the responsibility of the Electrical Contractor. Control or instrumentation circuits connecting holding coils to the control system as specified by the Mechanical Engineer are the responsibility of the Mechanical Contractor.
2. The power circuit is defined as all devices necessary to operate, and as required by code to protect and service the unit, including branch circuit protective devices, disconnects, magnetic motor starters with running overload and single phasing protection, magnetic contactors, etc.
3. The control or instrumentation circuit is defined as all devices necessary to interface the electrical power circuit with the control system as specified by the Mechanical Engineer including conduit, boxes, conduit fittings, conductors, electric–pneumatic switches, pneumatic–electric switches, electrical and pneumatic relays, pneumatic tubing, etc.
4. The Electrical Contractor shall be responsible to provide 120V duplex receptacles within 25 feet of all roof mounted equipment, per NEC 210.63.

H. DRAWINGS

1. The drawings indicate the general arrangement and locations of the electrical work. Information presented on these drawings are as accurate as planning can determine, but field verification of all dimensions, locations, levels, etc., to suit field conditions is required. Review all architectural, structural and mechanical drawings and adjust all work to meet the requirements of conditions shown. The architectural drawings shall take precedence over all other drawings. Discrepancies between different plans, or between drawings and specifications, or regulations and codes governing the installation shall be brought to the attention of the engineer in writing before the date of bid opening. Where discrepancies or conflicts occur, the bid shall reflect the most stringent requirements. Electrical Contractor shall be responsible to field measure and confirm mounting heights and location of electrical equipment with respect to counters, etc. Do not scale distances off the electrical drawings. Use actual building dimensions.
2. Upon completion of the work under these drawings and specifications, the Electrical Contractor shall provide the Owner with a complete set of marked–up electrical drawings showing the "as–built" condition of the work. Bond prints of the drawings required will be furnished by the Owner, for this purpose.
3. All operating instructions, parts lists and spare parts for material and equipment furnished and/or installed by the Electrical Contractor shall be turned over to the Owner (three copies).

I. SHOP DRAWINGS AND APPROVALS

1. Submittals shall consist of detailed shop drawings, specifications, block wiring diagrams, "catalog cuts" and data sheets containing physical and dimensional information, performance data, electrical characteristics, materials used in fabrication, and material finish. Clearly indicate by arrows or brackets precisely what is being submitted on and those optional accessories which are included and those which are excluded.
2. Each submittal shall be accompanied shall bear a stamp stating that the submittal has be thoroughly reviewed by the Contractor and is in full compliance with the requirements of Contract Documents. A letter shall list in full the items and data submitted. Failure to comply with this requirements shall constitute grounds for rejection or data.
3. The Contractor shall submit detailed drawings of all electrical equipment and generator rooms, yards, and utility areas. Minimum scale: 1/4"=1'–0".
4. As part of the equipment submittals, the manufacturer shall provide anchorage calculations for floor and wall mounted electrical equipment. Structural Calculations shall be prepared and signed by Registered Structural Engineer in California.
5. All resubmittals shall include a cover letter that lists the action taken and revisions made to every drawing and equipment data sheet in response to Submittal Review Comments. Failure to include this cover letter will constitute rejection of the resubmittal package.
6. Contractor shall submit short circuit and coordination studies signed by a registered electrical engineer. Studies shall be performed in acceptance with IEEE guidelines. Contractor shall be submitted for architect–engineer review prior to ordering and installing any equipment. Contractor shall ensure that the actual feeder lengths match studies (revise studies if necessary). Service equipment markings as required per NEC 110.24 shall be based on contractor submitted studies.
7. Submit conduits; fittings; outlet pull and junction boxes; wires; wiring devices; lighting fixtures; lamps; ballasts; safety switches; fuses; transformers; panelboards; circuit breakers; lighting control system/devices; and fire alarm systems.

J. SUBSTITUTIONS

1. All requests for substitutions shall conform to the general requirements and procedure outlined in Division 1.
2. Where items are noted as "or equal", a product of equal design, construction and performance will be considered.
3. Substitutions shall be equal, in the opinion of the Owner's Representative, to the specified product.
4. The burden of proof of equality of a proposed substitution for a specified item shall be upon the Electrical Contractor. Electrical Contractor shall support its request with sufficient test data, photometric analysis, detailed breakdown defining cost savings, and other means to permit the Architect and/or Engineer to make a fair and equitable decision on the merits of the proposed substitution. Any item by a manufacturer other than those specified, or of brand name or model number will be considered a substitution. The Architect and/or Engineer will be the sole judge of whether or not the substitution is equal in quality, utility, and economy to that specified.
5. Approval of a substitution shall not relieve Electrical Contractor from responsibility for compliance with all requirements of the Contract documents. Electrical Contractor shall bear the expense for any changes in other parts of this work or other work caused by the proposed substitution.
6. If Architect and/or Engineer rejects Electrical Contractor's substitute item on the first submittal, Electrical Contractor may make only one additional request for substitution in the same category.

K. GUARANTEE & TESTING

1. Guarantee all material furnished and all workmanship performed for a period of one year from the date of final acceptance of the work. Any defects developing within this period, traceable to material furnished as a part of this Section or workmanship performed hereunder, shall be corrected as necessary at no cost to the Owner.
2. System shall be tested for proper operation. If tests show that work is defective, Electrical Contractor shall make corrections as necessary at no cost to the Owner.

L. LABELING

1. Provide engraved name plates on switchboards, panel boards, disconnect switches, motor control centers, transformers, etc., indicating equipment designated (or designation of equipment served) and voltage.

M. HOUSEKEEPING PADS

1. Provide 4 inch high concrete equipment pads for all floor–mounted equipment including switchboards, motor control centers, transformers, etc.

N. MATERIALS

1. All materials shall be new and of quality as specified on the plans or specifications and must carry the Underwriter's Laboratories approval covering the purpose for which they are used, in addition to meeting all requirements of the current applicable codes and regulations.
2. Electrical Contractor shall be responsible for replacing equipment which is damaged due to incorrect field wiring provided under this section or factory wiring in equipment provided under this section.

O. STORAGE AND HANDLING OF MATERIAL

1. Deliver materials and equipment to the project in the manufacturer's original, unopened, labeled containers. Protect against moisture, tampering, or damage from improper handling or storage. Electrical Contractor shall protect and be responsible for any damage to work or materials until final acceptance by the Owner, and shall make good without cost to the Owner, any damage or loss that may occur during this period.
2. Arrange for timely delivery of materials and equipment to the jobsite in order to minimize the length of time between delivery and installation.
3. Arrange for timely delivery of Owner supplied materials and equipment to the jobsite in order to minimize the length of time between delivery and installation
4. Cover and protect any material which may be affected by the weather while in transit or stored at the project site. Any material found defective or not installed in accordance with the contract documents may be rejected by the Engineer.
5. No electrical work shall be installed in areas where other trade's work might cause physical damage to wires, conduit, equipment, boxes or fittings until the other trade's work has been completed. Any equipment or materials which become damaged shall be removed and replaced at no extra cost to the Owner.

P. CLEAN–UP

1. Keep the premises free from accumulation of waste materials, or rubbish caused by employees or work under this division of the specifications. At the completion of the work, remove all surplus materials, tools, etc., and leave the premises "broom–clean".

Q. EXCAVATION, CUTTING AND FITTING

1. Perform the excavation, cutting, fitting, repairing and finishing of the work necessary for the installation of electrical equipment However, no cutting of the work of other trades or of any structural member shall be done without the consent of the Architect.

R. EXCAVATION AND BACKFILL

1. Perform all excavation and backfilling required for work performed under this division of the specifications. Trench bottoms shall be graded true and free from stones or soft spots. Use excavated materials for backfill unless off site materials are deemed necessary by the Architect. Trenching and backfilling for electrical and telephone utility services to building shall be provided by the Electrical Contractor in accordance with utility company requirements.
2. Verify location of existing under ground utilities prior to trenching.

PART 2 – PRODUCTS AND EXECUTION

A. CONDUIT

1. All wiring shall be installed in listed metallic conduit except as permitted below. GRC may be used in all areas. IMC may be used in interior locations not in contact with earth. EMT may be used in indoor locations not in contact with earth, not in concrete slabs or walls and not subject to damage. PVC may be used in or below concrete and direct buried in earth. Flexible steel conduit shall be used for indoor final connections to mechanical equipment not to exceed 36", and recessed removable fluorescent light fixtures not to exceed 72". Liquid–tight flexible steel conduit shall be for outdoor final connections to equipment not to exceed 36".
2. Where the conduit enters outlet boxes, fixtures or cabinets, firmly fasten by double locknuts and bushings (GRC and IMC only). Firmly fasten conduit to the building construction. Run exposed conduit parallel to the building lines, supported by appropriate hangers.
3. Cover metallic conduit in contact with earth or fill with polyethylene tape spiral wrapped, 1/2" lapped to provide double thickness. Tape shall be Scotch No. 50 tape. Conduit and ducts not under buildings and feeder ducts shall be installed per NEC 300.5, except that the bends in conduit larger than 1" in diameter shall be made with galvanized steel conduit treated as noted above. Make joints with compound to be watertight.
4. Conduit sizes shall be as required by code and as indicated or specified on drawings. No conduit smaller than 3/4 inch trade size shall be used.
5. Penetration through floor slabs where subject to damage shall be in wrapped rigid steel. Schedule 40 PVC elbows and penetrations may be used in slab on grade where penetrations occur in protected areas (walls, electrical rooms, etc.).
6. Conduits and outlets shall be concealed within the building structure, except that certain motor and lighting feeder conduits may be run exposed in certain areas as indicated on the drawings. Conduit shown to be installed in cabinets, counters, and casework shall be run as directed by the Architect.
7. All conduit serving roof mounted equipment and devices including HVAC equipment, GFCI maintenance receptacles and duct type smoke detectors shall be routed in the ceiling space. Conduit shall penetrate roof at equipment locations only. No conduit shall be installed horizontally across roof surface.
8. Flexible metallic and non–metallic conduit systems shall have a code sized copper ground conductor. Increase conduit size as required.
9. Flexible metal conduit/cut–in boxes for low voltage systems (tel/data) may be used in wall partitions provided the installation complies with NEC Article 348. All conduit for low voltage wiring systems in new wall partitions shall be EMT. Flexible metal conduit for these systems is not acceptable in new walls.
10. All empty conduit systems shall have a 200 pound test pull cord installed to facilitate installation of future wire.

B. FITTINGS

1. EMT–Fittings and conduit bodies shall be steel, malleable iron or die cast compression or set screw type.
2. IMC and GRC–Shall be steel or malleable iron type and shall engage a minimum of five (5) threads.

C. OUTLET, PULL AND JUNCTION BOXES

1. Pull and/or junction boxes shall be installed wherever shown on the drawings or as required by code.
2. Each switch, light, receptacle or other outlet shall be provided with a code gauge, galvanized steel outlet box. Junction and pullboxes shall be code gauge, galvanized steel. Outlet boxes shall be of the one piece, knockout type, in general 4–inch square, 2 1/8–inch with plaster ring. Plaster rings shall be set to provide not more than 1/8" from wall surface to ring. In no case shall plaster ring project beyond surface of wall. Single gang rings similar to Steel City 52050 shall be used for 4" boxes in unfinished brick. Number 180 boxes may be used for unfinished masonry flush wall outlets. Center all outlet boxes in block course.
3. Boxes installed in poured cement floors shall be flush type cast iron with watertight gasketed covers, gray metallic finish. Where boxes are installed in floors with tile or carpet floor covering, covers shall be of the recessed type to accommodate the floor covering.
4. Boxes installed for the alarm, computer and security system shall be provided with appropriate coverplates.
5. Pull boxes shall be the types, size and design as approved by the NEC for the class of installation required.
6. Pull boxes and outlet boxes shall be sized by the Electrical Contractor as required by the NEC based on number of conductors, yokes, straps, etc., used in the installation.

D. WIRE

1. Match building standards if applicable in an existing building condition, unless otherwise follow the specifications below.
2. Conductor sizes shown on the drawings are based on copper wire. Unless otherwise specified, all wire shall be 90 degree C Type THWN–2 or XHHW–2. All branch circuit and feeder wiring shall be copper.
3. Wires shall be marked with color to simplify circuit identification. Unless otherwise required by local ordinances, identification shall be as follows:
   a. 120/208V and 120/240V
      Phase A: Black. Phase B: Red. Phase C: Blue
      Neutral: White. Ground: Green
   b. 277/480V
      Phase A: Brown. Phase B: Orange. Phase C: Yellow
      Neutral: Gray. Ground: Green
4. The wire shall be #12 AWG unless otherwise indicated.
5. No wire shall be installed in the conduit system until the conduit system is complete. Use UL approved lubricant to facilitate the installation of the conductors in the conduit system.
6. Conductors No. 10 AWG and smaller shall be solid. Conductors larger than No. 10 AWG shall be stranded.
7. MC cable may be utilized for #10 and #12 branch circuit wiring with the following limitations.
   a. The installation is in accordance with NEC Article 330.
   b. MC cable use is limited to wiring within partitions and walls and to connections to and between switches and wiring devices.
   c. MC cable is not to be used for home run circuiting. Home run circuiting shall be individual conductors installed in EMT conduit.

   *Contractor shall be responsible to verify with building engineer and or building owner, if the use of MC cable is acceptable prior to bid.
8. Home run shall be defined as the portion of the circuit from the panel to the first device

E. WIRING DEVICES

1. Switches: Wall switches shall be specification Grade AC silent type switches 20A, 120 – 277 volt. Hubbell 1221 (SP), 1222 (DP), 1223 (3–way) and 1224 (4–way). Dimmers shall be specification grade with preset slide control. Color shall be as approved by the Architect/Owner. Match building standard (if existing).
2. Receptacles: Duplex type outlets shall be heavy duty, specification grade NEMA 5–20R, 20A, 120V grounded type equal to Hubbell 5362. Isolated ground outlets shall be equal to Hubbell IG5362. Special application receptacles shall be as indicated on plans and verified with equipment supplier. Color shall be as approved by the Architect/Owner. Match building standard (if existing).
3. Weatherproof Receptacles: Covers shall be Hubbell WPFS26 with 5362 duplex outlet or equal.
4. GFCI Receptacles: Shall be Hubbell GF5362. GFCI receptacles shall be used in all outdoor applications as well as those placed within 6' of water source and all other NEC required locations.
5. Mounting Heights: Switches – 4–48 inches. Receptacles – +18 inches. Communication Devices – +18 inches. Fire Alarm Devices – As required by ADA, NFPA 72 or Authority Having Jurisdiction. All mounting heights are to centerline of device.
6. Device plates shall be equal to Sierra smooth–line plastic wall plates. Color shall be as approved by the Architect/Owner. Match building standard (if existing).
7. In all cases, switches controlling lighting are to be located on the strike side of doors. Locations indicated for switches and outlets are approximate. Owner may make minor relocations at no additional charge.

F. LIGHTING FIXTURES

1. Coordinate the final location of fixtures shown diagrammatically on the drawings with other trades in order to avoid interferences. Relocate fixtures as required as part of the work under this Division if new location is within a five foot radius of location shown.
2. Provide all lighting fixtures, wired and connected. The drawings indicate the fixtures for each location. Electrical Contractor shall verify fixture locations, mounting requirements and U.L. labeling of all fixtures prior to ordering. Include all accessories needed for a complete installation including mounting clips, plaster frames, hangers and hardware in base bid. Provide lamps for all fixtures. Verify ceiling construction before ordering recessed units.
3. Adjustable fixtures shall be located and properly aimed as directed by the Architect or the Lighting Designer.
4. Support recessed fixtures from ceiling structural support per adopted building codes.
5. All fixtures to bear the UL label. All outdoor fixtures shall be U.L. labeled for wet or damp location as defined by NEC Article 100.

G. LAMPS

1. LED – Minimum 80 CRI, 3500K.
2. Incandescent – Extended lamp life, inside frosted.
3. Fluorescent – Minimum 75 CRI, 3500K, 20,000 rated lamp hours.
4. Compact Fluorescent – Minimum 80 CRI, 3500K, 10,000 rated lamp hours.
5. Metal Halide – Minimum 65 CRI, 15,000 rated lamp hours.
6. High Pressure Sodium – Minimum 22 CRI, 24,000 rated lamp hours.

H. BALLASTS

1. Fluorescent
   a. Electronic, rapid start, high power factor, normal (0.88) ballast factor, less than 20–percent total Harmonic distortion and "A" sound rating.
   b. Compact fluorescent: electronic, fully encapsulated, 90–percent minimum power factor, 20 KHZ or higher operation frequency, less than 5–percent flicker, lump current crest factor of 1.7 or less. Transient protection shall comply with IEEE (62.41) for category A1 locations. Interference shall comply with 47 CFR, Chapter 1, Part 18, subpart C for limitations on electromagnetic and radio frequency interference for nonconsumer equipment.
   c. Outdoor fixtures shall have electronic ballasts rated for 0 degrees F starting temperature.
2. High–Intensity Discharge
   a. Ballasts shall comply with ANSI C82.4, shall be constant voltage autotransformer high power factor type. Open circuit operation will not reduce average life of ballast.
   b. The ballast shall be designed for an ambient operating temperature of 104 degrees F and shall start at minus 22 degrees F.
   c. Auxiliary, Instant–an Quartz System – Automatically switches quartz lamp on when fixture is initially energized and when momentary power outages occur. Automatically turns quartz lamp off when high–intensity–discharge lamp reaches approximately 60 percent light output.

I. SAFETY SWITCHES

1. Safety switches shall be general duty type, 250 volt for 208 volt equipment and heavy duty type, 600 volt for 480 volt equipment. Safety switches shall have the number of poles required. Wire terminations shall be listed as specified by the NEC. Safety switches for air conditioning use shall be of the fusible type where recommended by equipment manufacturer. Fusible switches shall accept class 'R' fuses only and will reject all other types. The switch size, number of poles and voltage rating shall be as required by code and as indicated on the drawings. Where outside the building, the switches shall be type NEMA 3R weatherproof. All switches shall be lockable.
2. Provide dymo–tape tag inside cover of each fusible switch, indicating size and type of fuses provided.

J. FUSES

1. Fuses shall be dual element time delay type, as manufactured by Bussman Mfg. Company, or as indicated or required by the equipment supplied.
2. Provide two (2) sets of three (3) spare fuses for each size and type provided on this project. Install fuses in a hinged door, sheet metal storage cabinet equipped with clips or cabinets, each marked with the size and type of fuse stored therein. Provide nameplate "Spare Fuses." Install in location as directed by Owner.

K. SERVICE ENTRANCE

1. The service entrance equipment size, voltage and rating shall be as indicated on the drawings. Provide copper bussing unless otherwise noted or permitted. Equipment shall carry the U.L. label and shall conform to the power company regulations.
2. Electrical Contractor is responsible to verify and confirm that equipment submitted shall fit within the allotted space requirements shown on the plans. Drawings indicate maximum dimensions for switchboards including clearances between switchboards an adjacent surfaces and other items. Comply with maximum dimensions. If any space or size discrepancies are anticipated it is the Electrical Contractor's responsibility to install the equipment within the allotted space at no additional cost to the Owner.
3. Service entrance equipment shall be manufactured by General Electric, Square D, Cutler–Hammer, Siemens or approved equal.
4. All overcurrent protection devices and electrical distribution equipment shall be fully (100%) rated for available fault current indicated. Series rated devices are not acceptable.

L. TRANSFORMERS

1. Transformers shall be dry type with copper windings, 115° temperature rise, and TP–1 compliant. See drawings for K rating, KVA rating, voltage and "delta" – "wye" configuration requirements.
2. All transformers shall be provided with class 220 degree Celsius insulation system and shall be completely enclosed except for ventilation openings
3. Transformers shall be 115 degree temperature rise above 40 degree Celsius ambient temperature.
4. Transformers shall be equipped with four 2–1/2% (2 above and 2 below normal voltage ) primary taps.

M. PANELBOARDS

1. Circuit breaker type as indicated on drawings. All panels shall have panelboard type construction with bolt–on circuit breakers. Panels indicated as loadcenters shall have plug–on circuit breakers.
2. Busing shall be copper unless otherwise noted or permitted.
3. Manufacturers shall be General Electric, Square D, Cutler–Hammer, Siemens with voltage, sizes and ratings as indicated on drawings. All panelboards in the facility shall be by the same manufacturer.
4. The circuit breakers shall be operable in any position and be removable from the front of the panelboard without disturbing the adjacent units. Branch breakers shall be of such design that combination of single–pole, double–pole and three–pole breakers can be assembled on the same panel. Each branch circuit shall be clearly numbered. Branch and main terminals shall be of the solderless type. Handle ties to form multi–pole breakers are not acceptable.
5. Wire termination for panelboards, loadcenters and circuit breakers shall be listed as specified by the NEC.
6. Provide a typewritten circuit index behind clear plastic cover on inside of door. Information shall include room and type of load served. All circuit breakers shall be identified, including spares. Index card frame shall be metal, secured to door.
7. Where panelboards are installed flush with the walls, extend empty conduits from the panelboard to an accessible space above or below. Provide 3/4" (minimum size) conduit for every three single spare circuit breakers or space or equivalent multi–pole arrangement, or fraction thereof, but not less than two conduits for each panelboard.

N. SYSTEM GROUNDING

1. Grounding shall comply with requirements of Article 250. All exposed noncurrent–carrying metallic parts of electrical equipment, metallic raceway systems, metallic cable armor, grounding conductor of nonmetallic sheathed cables, grounding conductor in nonmetallic raceways, and grounded conductors of the wiring system shall be grounded.
2. The grounded conductor (neutral) of the wiring system shall be connected to the system grounding conductor at a single place in each system by removable bonding jumpers, sized according to the applicable provisions of the NEC. The grounded conductor (neutral) to the grounding conductor connection shall be located in the enclosure for the system's overcurrent protection or where otherwise indicated on the plans or specifications.
3. Ground bus separate from the neutral bus shall be provided in all switchboards and panelboards. Ground bus shall be retorqued (checked) prior to energizing equipment per manufacturer's recommendations.
4. Ground buses and neutral buses in all distribution panels, switchboards, panelboards and those provided in any equipment shall be isolated except where required to be connected as specified above for the service entrance and in transformer terminal compartments.
5. When indicated on the drawings, equipment grounding conductors shall be extended from the ground bus in the distribution equipment to the receptacle, fixture or device luga where they are provided. When not provided, they shall be connected to equipment enclosures. The connections shall be arranged such that removal of the receptacle, the equipment ground conductors, or the ground jumpers from ground busing shall not affect the ground system.
6. Raceways may not be used as a grounding conductor for power and lighting circuits. Every conduit supplying power and lighting circuits shall have a separate code sized green ground wire installed in the conduit to ensure a continuous grounding path.
7. In inaccessible locations make connections by exothermic weld process.
8. In accessible locations, connections shall be made with approved baited bronze grounding devices.

O. EQUIPMENT CONNECTIONS

1. All motors shall be wired to conform with manufacturer's recommendations and with applicable codes. Furnish necessary materials, such as wire, conduit, fittings, etc. required to connect motor. However, motors, controls, etc. shall be furnished by the supplier of the driven equipment. Verify equipment locations and sizes with the trade supplying the motor before installing the conduit or outlets.
2. Final connection to all HVAC or motor loads from load side of disconnect shall be made using copper wire only, aluminum wire not acceptable.

P. COMMUNICATION SYSTEMS

1. For all communication outlets provide double gang back box with single gang plaster ring. Provide 1" conduit to 6" above accessible ceiling with 90° bend and conduit bushing unless otherwise noted on drawings. For non–accessible ceilings, route conduit to nearest accessible ceiling space or to nearest communication closet. Provide blank cover plates for all unused boxes.
2. Provide 3/4" fire rated plywood for telephone terminal backboard and paint to match wall surface. Refer to drawings for dimensions of backboard.
3. Provide #6 AWG CU ground wire from equipment backboard to building service ground.

Q. LIGHTING CONTROL

1. Furnish and install lighting control panels, override switches, time switches, photocells and contactors required for lighting control as indicated on the drawings. Lighting control panel and all associated components shall conform to adopted energy codes.

R. FIRE ALARM SYSTEM

1. Fire alarm is not shown on these drawings. Fire alarm is required as a part of the Contractor's scope of work. Contractor shall engage the services of a state licensed fire alarm contractor for the design and installation of a complete and operable fire alarm system that complies with all NFPA, NEC and local ordinances and requirements approved by Authority Having Jurisdiction. System design and installation shall be compatible with existing shell building and approved by Landlord prior to bid. Manufacturer of fire alarm system shall be the same manufacturer as the shell building unless otherwise approved by Landlord and Authority Having Jurisdiction. Include all costs in base bid.

**HCAi USE**

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Department of Health Care Access & Information
Office of Statewide Hospital Planning & Development
5/22/2023, 2:02:09 PM
S222248-43-00
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SANTA CLARA VALLEY MEDICAL CENTER
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| | 12.29.22 | 1ST SUBMITTAL |
| | 04.20.23 | 2ND SUBMITTAL |

HCAi #: S222248-43-00

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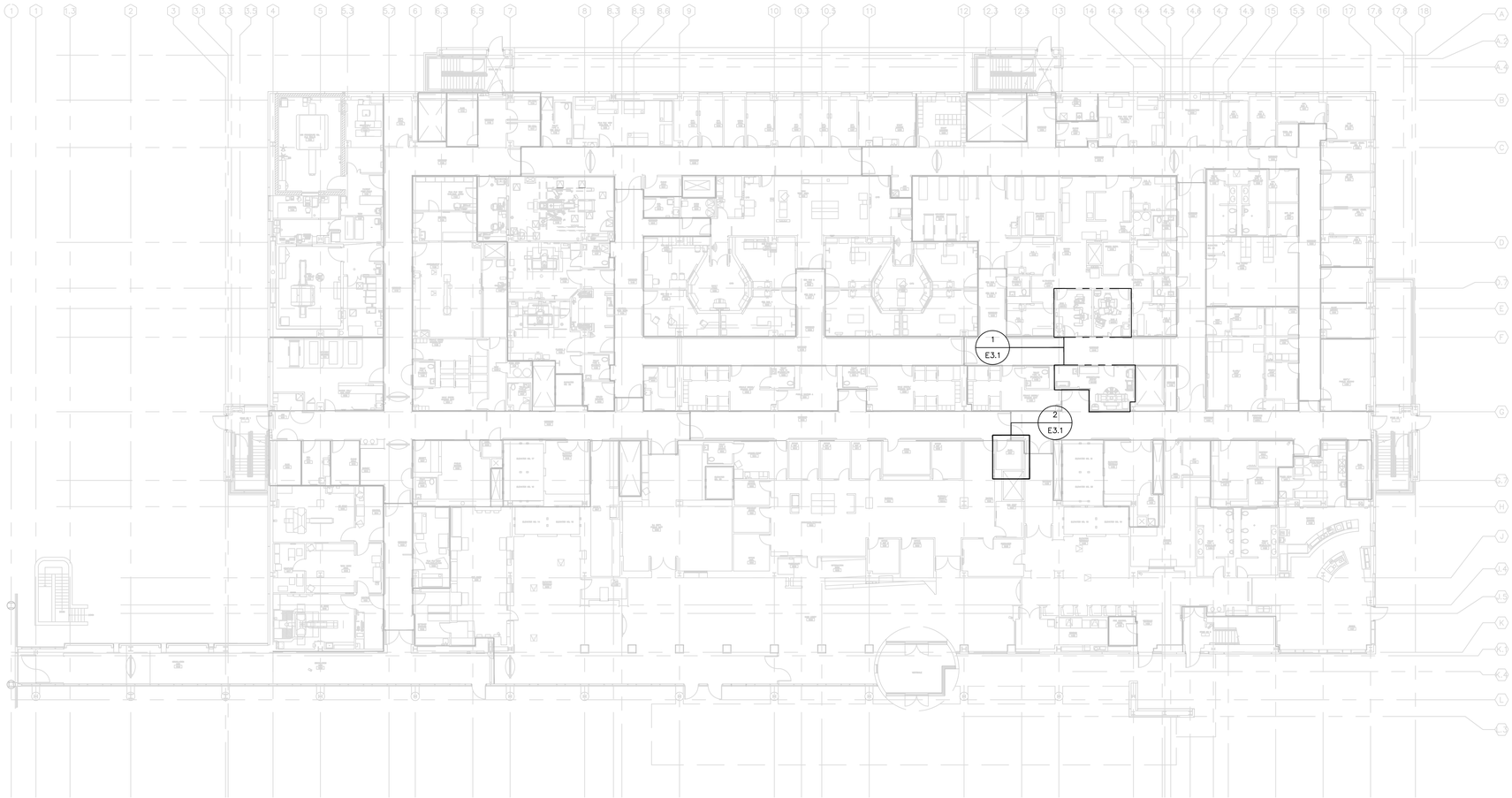
| Scale: | NONE |
| Drawn by: | HM |
| Reviewed by: | ZA |

Sheet Name: ELECTRICAL SPECIFICATIONS

DIGITAL IMAGING EQUIPMENT REPLACEMENT

Sheet No: E0.2




1 FIRST FLOOR OVERALL PLAN

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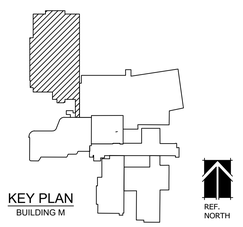
KEY PLAN

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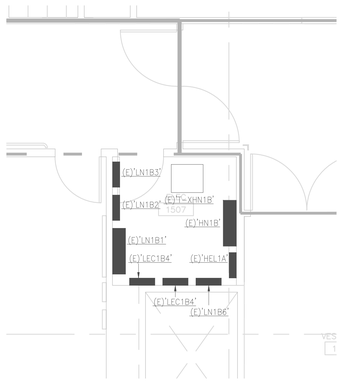
FIRST FLOOR OVERALL PLAN

DIGITAL IMAGING EQUIPMENT REPLACEMENT

Sheet No:

E1.0




2 ENLARGED ELECTRICAL ROOM 1507

1 ENLARGED POWER PLAN

## GENERAL NOTES

A. COMPLY WITH NEC ARTICLE 517–ALL BRANCH CIRCUITS SERVING PATIENTS CARE AREAS / EXAM ROOMS SHALL PROVIDE WITH A GROUND PATH FOR FAULT CURRENT BY INSTALLATION IN METAL RACEWAY SYSTEM OR CABLE ASSEMBLY, WHICH SHALL BE ITSELF QUALIFY AS AN EQUIPMENT GROUNDING RETURN PATH IN ACCORDANCE WITH SECTION [250.118]. TYPE AC, MC, AND MI CABLE SHALL HAVE AN OUTER METAL ARMOR OR SHEATH THAT IS IDENTIFIED AS AN ACCEPTABLE GROUNDING RETURN PATH.

B. IN ALL PATIENT CARE AREAS / EXAM ROOMS, THE GROUNDING TERMINALS OF ALL RECEPTACLES AND ALL NON–CURRENT CARRYING CONDUCTIVE SURFACES OF FIXED ELECTRIC EQUIPMENT OPERATING AT OVER 120V SHALL BE GROUNDED BY AN INSULATED COPPER CONDUCTOR.

C. RECEPTACLES WITH INSULATED GROUNDING TERMINALS (ISOLATED RECEPTACLES IDENTIFIED BY AN ORANGE TRIANGLE), AS DESCRIBED IN 250.146(D), SHALL NOT BE PERMITTED.

D. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.

E. FOR ALL COMMUNICATION OUTLETS, PROVIDE DOUBLE GANG BACK BOX WITH SINGLE GANG PLASTER RING. PROVIDE 1" CONDUIT TO 6" ABOVE ACCESSIBLE CEILING WITH 90° BEND AND CONDUIT BUSHING, UNLESS OTHERWISE NOTED ON DRAWINGS. FOR NON–ACCESSSIBLE CEILINGS, ROUTE CONDUIT TO NEAREST ACCESSIBLE CEILING SPACE OR TO NEAREST COMMUNICATION CLOSET. PROVIDE BLANK COVER PLATES FOR ALL UNUSED BOXES.

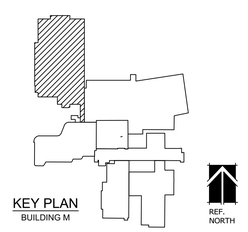
F. COORDINATE EXACT MECHANICAL AND PLUMBING EQUIPMENT LOCATIONS AND REQUIREMENTS WITH MECHANICAL AND PLUMBING CONTRACTOR PRIOR TO ROUGH–IN.

G. PER NEC 660.48: NON–CURRENT CARRYING METAL PARTS OF X–RAY AND ASSOCIATED EQUIPMENT (CONTROLS, TABLES, X–RAY TUBE SUPPORTS, TRANSFORMER TANKS, SHIELDED CABLES, X–RAY TUBE HEADS, AND SO FORTH), SHALL BE GROUNDED IN THE MANNER SPECIFIED IN ARTICLE 250. PORTABLE AND MOBILE EQUIPMENT SHALL BE PROVIDED WITH AN APPROVED GROUNDING TYPE ATTACHMENT PLUG CAP.

## KEYED NOTES

1. COORDINATE FINAL LAYOUT AND ADDITIONAL REQUIREMENTS WITHIN ROOM WITH X–RAY EQUIPMENT MANUFACTURER AND ASSOCIATED DRAWINGS PRIOR TO ROUGH–IN.
2. REPLACE EXISTING ENCLOSED CIRCUIT BREAKER WITH NEW DISCONNECT SWITCH AT SAME LOCATION.
3. USE EXISTING FEEDER. CONTRACTOR SHALL FIELD VERIFY EXISTING WIRE SIZE TO BE MINIMUM #8 WITH #10G.
4. RELOCATE EXISTING RECEPTACLE TO NEW LOCATION AND EXTEND CIRCUIT CONDUCTORS, AS SHOWN.
5. EXISTING LOW VOLTAGE AND POWER WIREWAY TO BE REUSED FOR GENERATOR/EQUIPMENT POWER. DIVIDER REQUIRED BETWEEN COMPARTMENTS. PROVIDE 2#8,1#8G CONDUCTORS FROM NEW DISCONNECT SWITCH TO BACK OF GENERATOR PER KEYED NOTE 6.
6. PROVIDE 3/4" FLEXIBLE CONDUIT FROM EXISTING WIREWAY TO BACK OF GENERATOR. ALLOW 12"–18" OF SLACK IN LENGTH FOR SERVICE LOOP.
7. EXISTING EMERGENCY REMOTE SHUT OFF SWITCH TO BE REUSED FOR SAME CIRCUIT AS BEFORE. CONNECT TO NEW SHUNT TRIP CIRCUIT BREAKER, OR EXISTING SYSTEM IN PLACE.
8. PROVIDE NEW RECEPTACLE WITHIN EXISTING WIREWAY. CONNECT TO EXISTING CIRCUIT LN1B3–12 AS SHOWN.

## KEY PLAN

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HCAi #: S222248-43-00

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| Job No: | 22-0977 |
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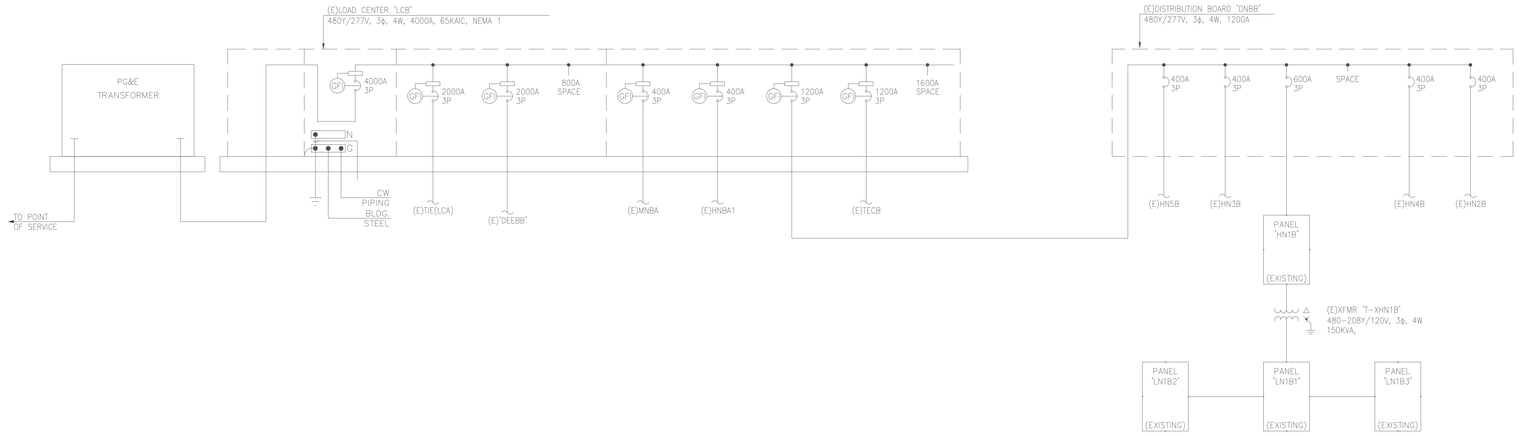
ENLARGED POWER PLAN

DIGITAL IMAGING EQUIPMENT REPLACEMENT

Sheet No:

E3.1




1 SINGLE LINE DIAGRAM

**(E)PANEL HN1B**
VOLTAGE : 277/480 VOLTS 3 PHASE, 4 WIRE
BUS RATING : 600 AMPS
MAIN : MLO
LOCATION:
CB OPT:
AIC RATING
OPTIONS: SURFACE MOUNTED

| | | CNKOT | LOAD SERVED | CB AMP/P | COBPT | PHASE A | PHASE B | PHASE C | COBPT | CB AMP/P | LOAD SERVED | CNKOT | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LOAD TYPE | LOAD (VA) | | | | | | | | | | | | LOAD (VA) | LOAD TYPE |
| LIGHTING | 2000 | 1 | EXISTING LTG | 20/1 | | A | | | | 20/1 | EXISTING LTG | 2 | 2300 | LIGHTING |
| LIGHTING | 1900 | 3 | EXISTING LTG | 20/1 | | | B | | | 20/1 | EXISTING LTG | 4 | 3000 | LIGHTING |
| LIGHTING | 2900 | 5 | EXISTING LTG | 20/1 | | | | C | | 20/1 | EXISTING LTG | 6 | 2500 | LIGHTING |
| LIGHTING | 2400 | 7 | EXISTING LTG | 20/1 | | A | | | | 20/1 | EXISTING LTG | 8 | 2500 | LIGHTING |
| LIGHTING | 3000 | 9 | EXISTING LTG | 20/1 | | | B | | | 20/1 | EXISTING LTG | 10 | 1200 | LIGHTING |
| LIGHTING | 500 | 11 | EXISTING CANOPY | 20/1 | | | | C | | 20/1 | EXISTING LTG | 12 | 1100 | LIGHTING |
| LIGHTING | 1700 | 13 | EXISTING LTG | 20/1 | | A | | | | 20/1 | EXISTING LTG | 14 | 1400 | LIGHTING |
| | | 15 | SPARE | 20/1 | | | B | | | 20/1 | SPARE | 16 | | |
| | | 17 | SPARE | 20/1 | | | | C | | 20/1 | SPARE | 18 | | |
| | | 19 | SPACE | | | A | | | | | SPACE | 20 | | |
| | | 21 | SPACE | | | | B | | | | SPACE | 22 | | |
| | | 23 | SPACE | | | | | C | | | SPACE | 24 | | |
| | | 25 | SPACE | | | A | | | 225/3 | - | (E)XFMR XHN1B | 26 | 45000 | MISC |
| | | 27 | SPACE | | | | B | | - | - | . | 28 | 45000 | MISC |
| | | 29 | SPACE | | | | | C | - | - | . | 30 | 45000 | MISC |
| MISC | 20775 | 31 | IMAG X-RAY 1M084 | 75/3 | | A | | | 75/3 | - | IMAG XRAY 1M084 | 32 | 20775 | MISC |
| MISC | 20775 | 33 | MOVMENT 150A | - | | | B | | - | - | MOVMENT 150A | 34 | 20775 | MISC |
| MISC | 20775 | 35 | - | - | | | | C | - | - | - | 36 | 20775 | MISC |
| | | 37 | SPARE | 100/3 | | A | | | 100/3 | - | SPARE | 38 | | |
| | | 39 | SPARE | - | | | B | | - | - | SPARE | 40 | | |
| | | 41 | SPARE | - | | | | C | - | - | SPARE | 42 | | |

EXISTING METERED: PHASE A PHASE B PHASE C
LOAD X 125%
PANEL CALCULATIONS:

| LOAD TYPE | LOAD (VA) | DEMAND FACTOR | DEMAND LOAD | |
|---|---|---|---|---|
| RECEPTACLE | 0 | PER NEC ARTICLE 220.14 | 0 | VA |
| LIGHTING | 28400 | 125% | 35500 | VA |
| MOTOR | 0 | 100% | 0 | VA |
| 0 KITCHEN | 0 | 100% | 0 | VA |
| 0 ELEVATORS | 0 | 100% | 0 | VA |
| HEAT | 0 | 100% | 0 | VA |
| MISC | 259650 | 100% | 259650 | VA |
| HOTEL/RES. UNIT | 0 | PER NEC ARTICLE 220.42 | 0 | VA |
| 0 UNIT PANELS | 0 | 100% | 0 | VA |
| 25% OF LARGEST MOTOR | | | 0 | VA |
| HOTEL SQFT | | RESIDENTIAL SQFT | | |

FEED THROUGH PANEL: LOAD (kVA)
SUB FEED LOADS: AMP/P LOAD TYPE

LOAD SUMMARY

| CONNECTED LOAD | VA | AMPS |
|---|---|---|
| PHASE A | 98850 | 356.9 |
| PHASE B | 95650 | 345.3 |
| PHASE C | 93550 | 337.7 |
| TOTAL CONNECTED LOAD | | 288.1 kVA |
| TOTAL DEMAND LOAD | | 295.2 kVA |
| LINE TO LINE VOLTAGE | | 480 VOLTS |
| PANEL AMPS | | 355.0 AMPS |

**(E)PANEL LN1B1**
VOLTAGE : 120/208 VOLTS 3 PHASE, 4 WIRE
BUS RATING : 600 AMPS
MAIN : 600A MCB
LOCATION:
CB OPT:
AIC RATING
OPTIONS: SURFACE MOUNTED

| | | CNKOT | LOAD SERVED | CB AMP/P | COBPT | PHASE A | PHASE B | PHASE C | COBPT | CB AMP/P | LOAD SERVED | CNKOT | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LOAD TYPE | LOAD (VA) | | | | | | | | | | | | LOAD (VA) | LOAD TYPE |
| SUBFEED | 8400 | 1 | (E)PANEL LN1B2 | 125/3 | | A | | | | 175/3 | (E)PANEL LN1B3 | 2 | 13400 | SUBFEED |
| SUBFEED | 12200 | 3 | (E)PANEL LN1B2 | - | | | B | | | - | (E)PANEL LN1B3 | 4 | 15200 | SUBFEED |
| SUBFEED | 13100 | 5 | (E)PANEL LN1B2 | - | | | | C | | - | (E)PANEL LN1B3 | 6 | 18500 | SUBFEED |
| MISC | 4800 | 7 | (E)PANEL LN1B4 | 125/3 | | A | | | | 125/3 | (E)PANEL LN1B5 | 8 | 8100 | MISC |
| MISC | 5900 | 9 | - | - | | | B | | | - | - | 10 | 7900 | MISC |
| MISC | 7000 | 11 | - | - | | | | C | | - | - | 12 | 9200 | MISC |
| MISC | 3600 | 13 | (E)PANEL LN1B6 | 125/3 | | A | | | | 150/3 | (E)PANEL LN1B7 | 14 | 6700 | MISC |
| MISC | 6100 | 15 | - | - | | | B | | | - | - | 16 | 8700 | MISC |
| MISC | 5900 | 17 | - | - | | | | C | | - | - | 18 | 12000 | MISC |
| | | 19 | SPACE | | | A | | | | | SPACE | 20 | | |
| | | 21 | SPACE | | | | B | | | | SPACE | 22 | | |
| | | 23 | SPACE | | | | | C | | | SPACE | 24 | | |
| | | 25 | SPACE | | | A | | | | | SPACE | 26 | | |
| | | 27 | SPACE | | | | B | | | | SPACE | 28 | | |
| | | 29 | SPACE | | | | | C | | | SPACE | 30 | | |

EXISTING METERED: PHASE A PHASE B PHASE C
LOAD X 125%
PANEL CALCULATIONS:

| LOAD TYPE | LOAD (VA) | DEMAND FACTOR | DEMAND LOAD | |
|---|---|---|---|---|
| RECEPTACLE | 38900 | PER NEC ARTICLE 220.14 | 24450 | VA |
| LIGHTING | 2400 | 125% | 3000 | VA |
| MOTOR | 0 | 100% | 0 | VA |
| 0 KITCHEN | 0 | 100% | 0 | VA |
| 0 ELEVATORS | 0 | 100% | 0 | VA |
| HEAT | 0 | 100% | 0 | VA |
| MISC | 125000 | 100% | 125000 | VA |
| HOTEL/RES. UNIT | 0 | PER NEC ARTICLE 220.42 | 0 | VA |
| 0 UNIT PANELS | 0 | 100% | 0 | VA |
| 25% OF LARGEST MOTOR | | | 0 | VA |
| HOTEL SQFT | | RESIDENTIAL SQFT | | |

FEED THROUGH PANEL: LOAD (kVA)
SUB FEED LOADS: AMP/P LOAD TYPE

LOAD SUMMARY

| CONNECTED LOAD | VA | AMPS |
|---|---|---|
| PHASE A | 55600 | 463.3 |
| PHASE B | 65700 | 547.5 |
| TOTAL CONNECTED LOAD | | 166.3 kVA |
| TOTAL DEMAND LOAD | | 152.5 kVA |
| LINE TO LINE VOLTAGE | | 208 VOLTS |
| PANEL AMPS | | 423.2 AMPS |

**(E)PANEL LN1B2**
VOLTAGE : 120/208 VOLTS 3 PHASE, 4 WIRE
BUS RATING : 125 AMPS
MAIN : MLO
LOCATION:
CB OPT: ST - SHUNT TRIP
AIC RATING
OPTIONS: SURFACE MOUNTED

| | | CNKOT | LOAD SERVED | CB AMP/P | COBPT | PHASE A | PHASE B | PHASE C | COBPT | CB AMP/P | LOAD SERVED | CNKOT | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LOAD TYPE | LOAD (VA) | | | | | | | | | | | | LOAD (VA) | LOAD TYPE |
| | | 1 | SPARE | 20/1 | | A | | | | 20/1 | (E)LTG | 2 | 900 | LIGHTING |
| LIGHTING | 300 | 3 | (E)LTG | 20/1 | | | B | | | 20/1 | SPARE | 4 | | |
| LIGHTING | 1200 | 5 | (E)LTG | 20/1 | | | | C | | 20/1 | SPARE | 6 | | |
| RECEPTACLE | 500 | 7 | EXISTING | 20/1 | | A | | | | 20/1 | EXISTING | 8 | 400 | RECEPTACLE |
| RECEPTACLE | 500 | 9 | EXISTING | 20/1 | | | B | | | 20/1 | EXISTING | 10 | 500 | RECEPTACLE |
| RECEPTACLE | 1000 | 11 | EXISTING | 20/1 | | | | C | | 20/1 | (E)ULTRA SONIC | 12 | 1000 | RECEPTACLE |
| RECEPTACLE | 400 | 13 | EXISTING | 20/1 | | A | | | | 20/1 | (E)ULTRA SONIC | 14 | 1000 | RECEPTACLE |
| RECEPTACLE | 400 | 15 | EXISTING | 20/1 | | | B | | | 20/1 | (E)ULTRA SONIC | 16 | 1000 | RECEPTACLE |
| RECEPTACLE | 500 | 17 | EXISTING | 20/1 | | | | C | | 20/1 | (E)ULTRA SONIC | 18 | 1000 | RECEPTACLE |
| RECEPTACLE | 500 | 19 | EXISTING | 20/1 | | A | | | | 20/1 | (E)ULTRA SONIC | 20 | 1000 | RECEPTACLE |
| RECEPTACLE | 500 | 21 | EXISTING | 20/1 | | | B | | | 20/1 | (E)ULTRA SONIC | 22 | 1000 | RECEPTACLE |
| RECEPTACLE | 500 | 23 | EXISTING | 20/1 | | | | C | | 20/1 | EXISTING | 24 | 700 | RECEPTACLE |
| RECEPTACLE | 500 | 25 | EXISTING | 20/1 | | A | | | | 20/1 | EXISTING | 26 | 400 | RECEPTACLE |
| RECEPTACLE | 1300 | 27 | EXISTING | 20/1 | | | B | | | 20/1 | EXISTING | 28 | 1100 | RECEPTACLE |
| RECEPTACLE | 400 | 29 | EXISTING | 20/1 | | | | C | | 20/1 | EXISTING | 30 | 1000 | RECEPTACLE |
| RECEPTACLE | 400 | 31 | EXISTING | 20/1 | | A | | | | 20/1 | EXISTING | 32 | 1100 | RECEPTACLE |
| RECEPTACLE | 800 | 33 | EXISTING | 20/1 | | | B | | | 20/1 | EXISTING | 34 | 1300 | RECEPTACLE |
| RECEPTACLE | 1000 | 35 | (E)TREADMILL | 20/1 | | | | C | | 20/1 | EXISTING | 36 | 1300 | RECEPTACLE |
| | | 37 | SPARE | 20/1 | | A | | | ST | 40/2 | BIOPSY DRESS 1M130 | 40 | 3500 | MISC |
| | | 39 | SPARE | 20/1 | | | B | | | - | - | 42 | 3500 | MISC |
| | | 41 | SPARE | 20/1 | | | | C | | | | | | |

EXISTING METERED: PHASE A PHASE B PHASE C
LOAD X 125%
PANEL CALCULATIONS:

| LOAD TYPE | LOAD (VA) | DEMAND FACTOR | DEMAND LOAD | |
|---|---|---|---|---|
| RECEPTACLE | 24300 | PER NEC ARTICLE 220.14 | 17150 | VA |
| LIGHTING | 2400 | 125% | 3000 | VA |
| MOTOR | 0 | 100% | 0 | VA |
| 0 KITCHEN | 0 | 100% | 0 | VA |
| 0 ELEVATORS | 0 | 100% | 0 | VA |
| HEAT | 0 | 100% | 0 | VA |
| MISC | 7000 | 100% | 7000 | VA |
| HOTEL/RES. UNIT | 0 | PER NEC ARTICLE 220.42 | 0 | VA |
| 0 UNIT PANELS | 0 | 100% | 0 | VA |
| 25% OF LARGEST MOTOR | | | 0 | VA |
| HOTEL SQFT | | RESIDENTIAL SQFT | | |

FEED THROUGH PANEL: LOAD (kVA)
SUB FEED LOADS: AMP/P LOAD TYPE

LOAD SUMMARY

| CONNECTED LOAD | VA | AMPS |
|---|---|---|
| PHASE A | 8400 | 70.0 |
| PHASE B | 12200 | 101.7 |
| PHASE C | 13100 | 109.2 |
| TOTAL CONNECTED LOAD | | 33.7 kVA |
| TOTAL DEMAND LOAD | | 27.2 kVA |
| LINE TO LINE VOLTAGE | | 208 VOLTS |
| PANEL AMPS | | 75.4 AMPS |

**(E)PANEL LN1B3**
VOLTAGE : 120/208 VOLTS 3 PHASE, 4 WIRE
BUS RATING : 200 AMPS
MAIN : MLO
LOCATION:
CB OPT:
AIC RATING
OPTIONS: SURFACE MOUNTED

| | | CNKOT | LOAD SERVED | CB AMP/P | COBPT | PHASE A | PHASE B | PHASE C | COBPT | CB AMP/P | LOAD SERVED | CNKOT | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LOAD TYPE | LOAD (VA) | | | | | | | | | | | | LOAD (VA) | LOAD TYPE |
| RECEPTACLE | 500 | 1 | EXISTING | 20/1 | | A | | | | 20/1 | EXISTING | 2 | 500 | RECEPTACLE |
| RECEPTACLE | 400 | 3 | EXISTING | 20/1 | | | B | | | 20/1 | EXISTING | 4 | 200 | RECEPTACLE |
| RECEPTACLE | 700 | 5 | EXISTING | 20/1 | | | | C | | 20/1 | EXISTING | 6 | 700 | RECEPTACLE |
| RECEPTACLE | 700 | 7 | EXISTING | 20/1 | | A | | | | 20/1 | EXISTING | 8 | 400 | RECEPTACLE |
| RECEPTACLE | 400 | 9 | EXISTING | 20/1 | | | B | | | 20/1 | EXISTING | 10 | 400 | RECEPTACLE |
| RECEPTACLE | 700 | 11 | EXISTING | 20/1 | | | | C | | 20/1 | EXISTING | 12 | 1000 | RECEPTACLE |
| RECEPTACLE | 400 | 13 | EXISTING | 20/1 | | A | | | | 20/1 | EXISTING | 14 | 1100 | RECEPTACLE |
| RECEPTACLE | 700 | 15 | EXISTING | 20/1 | | | B | | | 20/1 | EXISTING | 16 | 1100 | RECEPTACLE |
| RECEPTACLE | 400 | 17 | EXISTING | 20/1 | | | | C | | 20/1 | EXISTING | 18 | 700 | RECEPTACLE |
| RECEPTACLE | 700 | 19 | EXISTING | 20/1 | | A | | | | 20/1 | EXISTING | 20 | 500 | RECEPTACLE |
| RECEPTACLE | 1100 | 21 | EXISTING | 20/1 | | | B | | | 20/1 | (E)COFFEE MAKER | 22 | 1700 | MISC |
| RECEPTACLE | 700 | 23 | (E)MICROWAVE | 20/1 | | | | C | | 20/ | EXISTING | 24 | 900 | MISC |
| | | 25 | SPARE | 20/1 | | A | | | | 20/1 | EXISTING | 26 | 200 | RECEPTACLE |
| | | 27 | SPARE | 20/1 | | | B | | | 20/1 | EXISTING | 28 | 200 | RECEPTACLE |
| MISC | 3500 | 29 | IMAG MAM 1 - 1M078 | 40/2 | | | | C | | 20/1 | EXISTING | 30 | 200 | MISC |
| MISC | 3500 | 31 | - | - | | A | | | | 20/1 | EXISTING | 32 | 200 | RECEPTACLE |
| MISC | 3500 | 33 | IMAG MAM 2 - 1M076 | 40/2 | | | B | | | 20/1 | (E)LASER IMAGE | 34 | 800 | MISC |
| MISC | 3500 | 35 | - | - | | | | C | | 20/1 | (E)LASE IMAGE | 36 | 800 | MISC |
| MISC | 2300 | 37 | (E)FILM PROCESSING | 30/3 | | A | | | | 30/3 | (E)FILM PROC. | 38 | 2400 | MISC |
| MISC | 2300 | 39 | - | - | | | B | | | - | - | 40 | 2400 | MISC |
| MISC | 2300 | 41 | - | - | | | | C | | - | SPACE | 42 | 2400 | MISC |

EXISTING METERED: PHASE A PHASE B PHASE C
LOAD X 125%
PANEL CALCULATIONS:

| LOAD TYPE | LOAD (VA) | DEMAND FACTOR | DEMAND LOAD | |
|---|---|---|---|---|
| RECEPTACLE | 14600 | PER NEC ARTICLE 220.14 | 12300 | VA |
| LIGHTING | 0 | 125% | 0 | VA |
| MOTOR | 0 | 100% | 0 | VA |
| 0 KITCHEN | 0 | 100% | 0 | VA |
| 0 ELEVATORS | 0 | 100% | 0 | VA |
| HEAT | 0 | 100% | 0 | VA |
| MISC | 32500 | 100% | 32500 | VA |
| HOTEL/RES. UNIT | 0 | PER NEC ARTICLE 220.42 | 0 | VA |
| 0 UNIT PANELS | 0 | 100% | 0 | VA |
| 25% OF LARGEST MOTOR | | | 0 | VA |
| HOTEL SQFT | | RESIDENTIAL SQFT | | |

FEED THROUGH PANEL: LOAD (kVA)
SUB FEED LOADS: AMP/P LOAD TYPE

LOAD SUMMARY

| CONNECTED LOAD | VA | AMPS |
|---|---|---|
| PHASE A | 13400 | 111.7 |
| PHASE B | 15200 | 126.7 |
| PHASE C | 18500 | 154.2 |
| TOTAL CONNECTED LOAD | | 47.1 kVA |
| TOTAL DEMAND LOAD | | 44.8 kVA |
| LINE TO LINE VOLTAGE | | 208 VOLTS |
| PANEL AMPS | | 124.4 AMPS |

2 SCHEDULES

## GENERAL NOTES

A. ALL ELECTRICAL EQUIPMENT AND DEVICES SHALL BE FULLY RATED TO WITHSTAND THE AVAILABLE FAULT CURRENT. SERIES RATING IS NOT ACCEPTABLE.

B. ALL SWITCHBOARDS, PANELBOARDS, TRANSFORMERS, DISCONNECT SWITCHES, AND MOTOR CONTROL CENTERS SHALL BE MARKED TO INDICATE THE DEVICE OR EQUIPMENT WHERE THE POWER SUPPLY ORIGINATES.

C. EACH MULTIWIRE BRANCH CIRCUIT SHALL BE PROVIDED WITH A MEANS THAT WILL SIMULTANEOULSY DISCONNECT ALL UNDERGROUND CONDUCTORS AT THE POINT WHERE THE BRANCH CIRCUIT ORIGINATES. PROVIDE APPROVED HANDLE TIES ON CIRCUIT BREAKERS TO CIRCUITS/HOMERUNS WITH SHARED NEUTRAL TO MEET NEC 210.4 AND 240.15.

D. THE UNGROUNDED AND GROUNDED CONDUCTORS OF EACH MULTI-WIRE BRANCH CIRCUIT SHALL BE GROUPED BY WIRE TIES OR SIMILAR MEANS IN AT LEAST ONE LOCATION WITHIN THE PANELBOARD OR OTHER POINT OF ORIGINATION.

E. ALL NEW CIRCUIT BREAKERS SHALL MATCH EXISTING PANEL AIC RATING.

## KEYED NOTES

1. REPLACE EXISTING CIRCUIT BREAKER WITH NEW AS SHOWN.

## KEY PLAN

## HCAi USE

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF CAL CCR
APPROVED
Department of Health Care Access & Information
Office of Statewide Hospital Planning & Development
5/22/2023, 2:02:09 PM
S222248-43-00
Pedar Hemme


G|D|G architects
GIVEN DESIGN GROUP
1903 GLASSELL STE 200
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WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSION. CONTRACTORS SHALL VERIFY, AND BE RESPONSIBLE FOR, ALL DIMENSIONS AND CONDITIONS. THE ARCHITECT SHALL BE NOTIFIED OF ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN BY THESE DRAWINGS. SHOP DETAILS MUST BE SUBMITTED TO THIS OFFICE FOR APPROVAL BEFORE PROCEEDING WITH FABRICATION.


ARCHITECT'S STAMP

AOR 5.16.23

CONSULTANT'S STAMP

REGISTERED PROFESSIONAL ENGINEER — MARK D. ZAMORA — No. E-20001 — ELECTRICAL — STATE OF CALIFORNIA

LAZ DESIGN ENGINEERS
1314 West Glencoe Blvd. Ste 205 | Glendale, CA 91201 | 818.937.9229

SANTA CLARA VALLEY MEDICAL CENTER
Hospital & Clinics

## REVISIONS

| NO. | DATE | DESCRIPTION |
|---|---|---|
| | 12.29.22 | 1ST SUBMITTAL |
| | 04.20.23 | 2ND SUBMITTAL |

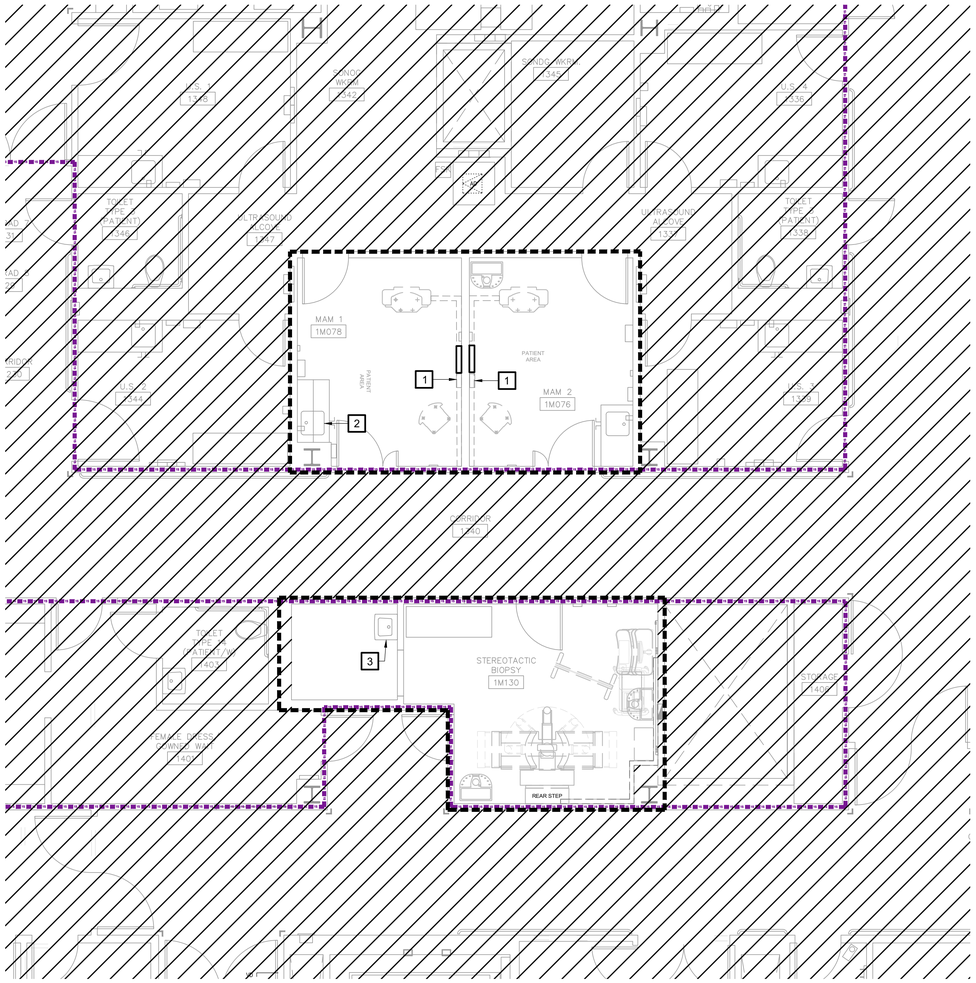
HCAi #: S222248-43-00

| | |
|---|---|
| Job No: | 22-0977 |
| Scale: | NONE |
| Drawn by: | HM |
| Reviewed by: | ZA |

Sheet Name: SINGLE LINE DIAGRAM AND SCHEDULES

DIGITAL IMAGING EQUIPMENT REPLACEMENT

Sheet No: E5.1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1M078
MAM 2
1M076
PATIENT AREA
VIEW WINDOW
1
2
3
STEREOTACTIC BIOPSY
1M130
REAR STEP
TOILET
1M077
CORRIDOR
1M040
CONSULT
1M041
U.S. 2
1M042
U.S. 1
1M043
TOILET
1M044
UNASSIGNED
1M045
UNASSIGNED
1M046
TOILET
1M047
CONSULT
1M048
CONSULT
1M049
U.S. 3
1M050
U.S. 4
1M051
TOILET
1M052
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CONSULT
1M057
U.S. 5
1M058
U.S. 6
1M059
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1M060
UNASSIGNED
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UNASSIGNED
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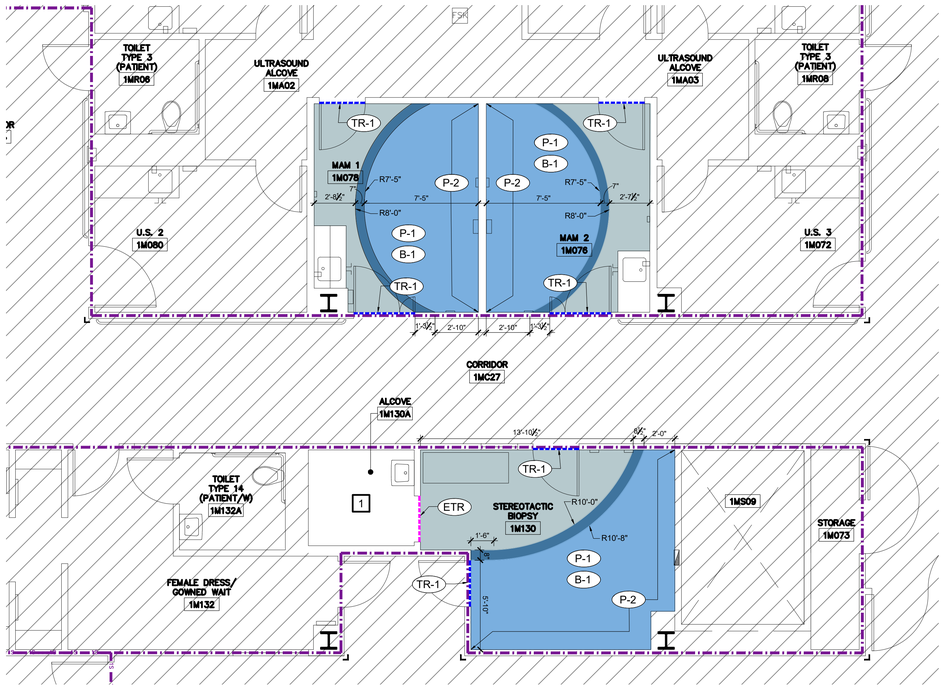
CONSULT
1M064
CONSULT
1M065
U.S. 7
1M066
U.S. 8




1 PROPOSED FINISH PLAN

## FINISH SCHEDULE

| ADMIN OFFICES | | | FLOORING | | WALL PAINT | | CEILING | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ROOM # | ROOM NAME | ROOM SIZE (SF) | MATERIAL | BASE | ACCENT WALL | OTHER WALLS | MATERIAL | HEIGHT | COLOR | SHEEN | DOOR | NOTES |
| 1M078 | MAM 1 | 142 | SV-1, SV-2, SV-3 | B-1 | N/A | P-1 | ACT | 8'-0" | ETR | ETR | ETR | SEE FINISH PLAN FOR SHEET VINYL FLOOR PATTERN. |
| 1M076 | MAM 2 | 145 | SV-1, SV-2, SV-3 | B-1 | N/A | P-1 | ACT | 9'-6" | ETR | ETR | ETR | SEE FINISH PLAN FOR SHEET VINYL FLOOR PATTERN. |
| 1M130 | STEREOTACTIC BIOPSY | 236 | SV-1, SV-2, SV-3 | B-1 | N/A | P-1 | ACT | 9'-6" | ETR | ETR | ETR | SEE FINISH PLAN FOR SHEET VINYL FLOOR PATTERN. |

## FINISH MATERIALS

| ABBREV. | MATERIAL |
|---|---|
| SV-1 | GERFLOR MIPOLAM “AFFINITY” HOMOGENEOUS COMMERCIAL SHEET FLOORING WITH EVERCARE FINISH. COLOR: 4410 VIOLET GREY |
| SV-2 | GERFLOR MIPOLAM “AFFINITY” HOMOGENEOUS COMMERCIAL SHEET FLOORING WITH EVERCARE FINISH. COLOR: 4416 SAPPHIRE |
| SV-3 | GERFLOR MIPOLAM “AFFINITY” HOMOGENEOUS COMMERCIAL SHEET FLOORING WITH EVERCARE FINISH. COLOR: 4446 BLUE OCEAN |
| TR-1 | GERFLOR HOT WELD ROD "CR 40" CODE: 0585, COLOR: MATCH ADJACENT SHEET VINYL |
| P-1 | SHERWIN WILLIAMS "DOVER WHITE" #SW6385 |
| P-2 | SHERWIN WILLIAMS "SECURE BLUE" #SW6508 |
| B-1 | 4" COVED SHEET VINYL BASE |
| ETR | EXISTING TO REMAIN |

## KEYNOTES

1 EXISTING FINISHES TO REMAIN IN THIS AREA

PLAN LAYOUT, ROOM NAMES AND ROOM NUMBERS OUTSIDE AREAS OF WORK ARE SHOWN FOR REFERENCE ONLY AND ARE BASED ON PLANS PROVIDED BY THE FACILITY. GDG ARCHITECTS HAS NOT VERIFIED THE ACCURACY OF EXISTING CONDITIONS.

## SYMBOLS LEGEND

- NOT IN SCOPE
- (E) WALLS
- (E) 1HR. FIRE PARTITION WALL
- (E) 1HR. SMOKE BARRIER WALL
- (E) 2HR. FIRE BARRIER WALL
- SV1 — (N) HOMOGENEOUS SHEET VINYL, SEE FINISH SCHEDULE THIS SHEET
- SV2 — (N) HOMOGENEOUS SHEET VINYL, SEE FINISH SCHEDULE THIS SHEET
- SV3 — (N) HOMOGENEOUS SHEET VINYL, SEE FINISH SCHEDULE THIS SHEET
- B — (N) WALL BASE, SEE FINISH SCHEDULE THIS SHEET
- P — (N) WALL PAINT, SEE FINISH SCHEDULE THIS SHEET
- TR-1 — (N) WELDING ROD TRANSITION, SEE FINISH SCHEDULE THIS SHEET
- (E) SLOPED TILE TO SHEET VINYL FLOOR TRANSITION TO REMAIN

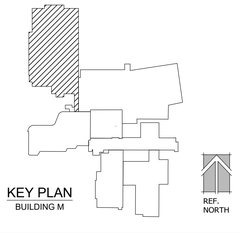
## NOTES

1. ALL NEW INTERIOR WALL AND CEILING FINISHES MUST COMPLY WITH CBC 803.1.1 AND CBC TABLE 803.11

2. FINISHES LISTED ABOVE ARE TO COMMUNICATE DESIGN DIRECTION. VARIATIONS MAY BE REQUIRED ON PER SITE BASIS. ALL FINISH SELECTIONS MUST BE APPROVED BY PRIOR TO INSTALLATION.

3. ALL NEW INTERIOR WALLS & CEILING FINISHES MUST BE CLASS 'B' OR BETTER PER CBC 803.9 EXCEPT IN ADMINISTRATIVE SPACES OR ROOMS WITH FOUR PERSONS OCCUPANCY LOAD OR LESS CAN BE CLASS 'C' FINISH MATERIAL.

## KEY PLAN




## HCAi USE

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ARCHITECT'S STAMP

LICENSED ARCHITECT JESSE L. GIVEN NO. C-30772 REN. 05-31-2025 STATE OF CALIFORNIA

CONSULTANT'S STAMP

SANTA CLARA VALLEY MEDICAL CENTER Hospital & Clinics

REVISIONS

| NO. | DATE | DESCRIPTION |
|---|---|---|
| | 12.29.22 | 1ST SUBMITTAL |
| 1 | 04.21.23 | 2ND SUBMITTAL |
| | 05.17.23 | 3RD SUBMITTAL |

HCAi #: S222248-43-00

| | |
|---|---|
| Job No: | 22-0977 |
| Scale: | 1/4" = 1'-0" |
| Drawn by: | FP |
| Reviewed by: | JV |

Sheet Name:

PROPOSED FINISH PLAN AND SCHEDULE

DIGITAL IMAGING EQUIPMENT REPLACEMENT

Sheet No: A2.1