

CATH LAB #1- BUILDING 4 LEVEL 1
CONSTRUCTION DOCUMENTS

Project No. 20229.00
Project Address: 5121 S Cottonwood Street,
Murray, Utah 84107

Date: December 15, 2021



PROJECT IS LOCATED AT LEVEL 1 OF BUILDING 4.



INTERMOUNTAIN MEDICAL CENTER- AERIAL VIEW

| | |
|--|--|
| OWNER | INTERMOUNTAIN HEALTHCARE 36 SOUTH STATE STREET 23RD FLOOR SALT LAKE CITY, UT 84111 |
| ARCHITECT | NJRA ARCHITECTS, INC. 5272 SOUTH COLLEGE DRIVE SUITE 104 MURRAY, UT 84123 |
| MECHANICAL/ PLUMBING ENGINEER | VAN BOERUM & FRANK ASSOCIATES, INC. 330 SOUTH 300 EAST SALT LAKE CITY, UT 84111 |
| ELECTRICAL ENGINEER | SPECTRUM ENGINEERS 324 SOUTH STATE STREET, SUITE 400 SALT LAKE CITY, UT 84111 |
| STRUCTURAL ENGINEER | REAVELEY ENGINEERS 675 EAST 500 SOUTH, SUITE 400 SALT LAKE CITY, UT 84102 |

12/21/2021 2:31:01 PM - Z:\200 IHC\20229.00.IHC - IHC CATH LAB #1\02.BIM - REVIT & AUTOCAD\02 AUTOCAD DWGS\G002 GENERAL INFORMATION.DWG

ABBREVIATIONS

| | | | |
|---------|---|--------|--|
| A/C | AIR CONDITIONING | O/O | OUT TO OUT |
| ACOUS | ACOUSTICAL | OJ | OVER |
| AD | AREA DRAIN | OA | OVERALL |
| AF | ABOVE FINISH FLOOR | OC | ON CENTER |
| AVE | AVENUE | OD | OUTSIDE DIMENSION/ DIAMETER |
| B/M | BENCH MARK | OFCI | OWNER FURNISHED CONTRACTOR INSTALLED |
| BLDG | BUILDING | OFOT | OWNER FURNISHED OWNER INSTALLED |
| BLKG | BLOCKING | ORD | OVERFLOW ROOF DRAIN |
| BO | BOTTOM | ORIG. | ORIGINAL |
| BRG | BEARING | OZ | OUNCE |
| BS | BOTH SIDES | | |
| BSMT | BASEMENT | | |
| C&G | CURB AND GUTTER | | |
| CG | CORNER GUARD | | |
| CJ | CONTROL OR CONSTRUCTION JOINT | PL | PLATE |
| CMU | CONCRETE MASONRY UNIT | PLM | PROPERTY LINE |
| CO | CLEAN OUT | POS | POSITIVE |
| CONC | CONCRETE | PR | PAIR |
| CONT | CONTINUOUS | PREFAB | PREFABRICATED |
| DEMO | DEMOLITION | PREFIN | PREFINISHED |
| DF | DRINKING FOUNTAIN | PTD | PAPER TOWEL DISPENSER |
| DIAG | DIAGONAL | PTK | PAPER TOWEL RECEIPT/CLL |
| DIAM | DIAMETER | PTS | PNEUMATIC TUBE STATION |
| DIFF | DIFFUSER | | |
| DM | DIMENSION | | |
| DS | DOWNSPOUT | RAD | RADIUS |
| E | EAST | RD | ROOF DRAIN |
| EA | EACH | REF | REFERENCE |
| EJ | EXPANSION JOINT | REINF | REINFORCE (MENT) |
| ELEC | ELECTRIC(AL) | REQD | REQUIRED |
| ENCL | ENCLOSURE | REV | REVISION |
| EP | EDGE OF PAVEMENT | RFG | ROOFING |
| EQ | EQUAL | RH | RIGHT HAND |
| EQUI | EQUIPMENT | RM | ROOM |
| ES | EACH SIDE | RO | ROUGH OPENING |
| EW | ELECTRICAL WATER | ROW | RIGHT OF WAY |
| EXT | EXTERIOR | RV | ROOF VENT |
| FA | FIRE ALARM | S | SOUTH/SINK |
| FCO | FLOOR CLEAN OUT | SCHED | SCHEDULE |
| FD | FLOOR DRAIN | SD | STORM DRAIN OR SOAP DISPENSER/DISH |
| FE | FIRE EXTINGUISHER | SIM | SIMILAR |
| FEC | FIRE EXTINGUISHER | SM | SHEET METAL |
| FF | FINISH FLOOR | SMS | SHEET METAL SCREW |
| FG | FINISH GRADE | SPEC | SPECIFICATIONS |
| PH | FIRE HYDRANT | SQ YD | SQUARE YARD |
| PH | FIRE HOSE CABINET | SQ FT | SQUARE FOOT |
| FL | FLOOR | SO IN | SQUARE INCH |
| FCC | FACE OF CONCRETE | SS | STAINLESS STEEL |
| FOF | FACE OF FINISH | ST | STREET |
| FOM | FACE OF MASONRY | STD | STANDARD |
| FOS | FACE OF STUD | STOR | STORAGE |
| FPR | FIRE PROOFING | STRUC | STRUCTURAL |
| FS | FLOOR SINK | SUSP | SUSPENDED |
| FSC | FIRE SPRINKLER | SYM | SYMMETRICAL |
| FWC | FABRIC WALL COVERING | T&B | TOP AND BOTTOM |
| GA | GAUGE | T&G | TONGUE AND GROOVE |
| GALV | GALVANIZED | TC | TOP OF CURB |
| G8 | GRAB BAR | TOC | TOP OF CONCRETE/CURB |
| GC | GENERAL CONTRACTOR | TOF | TOP OF FOOTING |
| GRCC | GLASS REINFORCED CONCRETE | TOJ | TOP OF JOIST |
| GLU LAM | GLUE LAMINATED BEAM | TOI | TOLERANCE |
| GYP | GYPSONUM | TOPO | TOPOGRAPHIC |
| | | TOS | TOP OF STEEL/SLAB |
| | | TOW | TOP OF WALL |
| | | TP | TOP OF PAVEMENT |
| HB | HOSE BIB | TRNS | TRANSFORMER |
| HDGP | HANDICAP (PED) | TRTD | TREATED |
| HM | HOLLOW METAL | TS | TUBE STEEL |
| HORIZ | HORIZONTAL | TV | TELEVISION |
| HP | HIGH POINT OR HORSEPOWER | TYP | TYPICAL |
| HT | HEIGHT | U/S | UNDER SIDE |
| HVAC | HEATING, VENTILATING, AIR CONDITIONING | U/C | UNDER CABINET |
| | | UL | UNDERWRITERS LABORATORIES |
| | | UNFI | UNFINISHED |
| | | UNO | UNLESS NOTED OTHERWISE |
| ID | INSIDE DIMENSION/ DIAMETER | VCT | VINYL COMPOSITION TILE |
| IE | INVERT ELEVATION | VEST | VESTIBULE |
| IN | INCH | VWC | VINYL WALL COVERING |
| INT | INTERIOR | | |
| JT | JOINT | W/O | WITHOUT |
| KBD | ARTICULATED KEYBOARD TRAY | W/ | WITH |
| KO | KNOCKOUT | W | WEST/WASTE/WATER |
| KOP | KNOCK OUT PANEL | WB | WALLBOARD |
| LAB | LABORATORY | WD | WOOD |
| LAM | LAMINATED | WG | WIRE GLASS |
| LAV | LAVATORY | WT | WEIGHT |
| LB | POUND | WWF | WELDED WIRE FABRIC |
| LH | LEFT HAND | | |
| LN | LINEAR | | |
| LLH | LONG LEG HORIZONTAL | YB | YARD BOX |
| LV | LONG LEG VERTICAL | YD | YARD DRAIN |
| LONG | LONGITUDINAL | | |
| LP | LOW POINT | @ | AT |
| MAX | MAXIMUM | £ | PLATE OR PROPERTY LINE |
| MC | MEDICINE CABINET | ¢ | CENTERLINE |
| MDL | MEDIUM DENSITY LAMINATE | & | AND |
| MECH | MECHANICAL | ∠ | ANGLE |
| MEZZ | MEZZANINE | φ | DIAMETER |
| MH | MANHOLE | | |
| MM | MILLIMETER | | |
| MIN | MINIMUM | | |
| MIR | MIRROR | | |
| MISC | MISCELLANEOUS | | |
| MIDG | MOLDING | | |
| MO | MASONRY OPENING | | |
| MON | MONUMENT | | |
| MTL | METAL | | |
| N | NORTH | | |
| NC | NURSE CALL | | |
| NEG | NEGATIVE | | |
| NIC | NOT IN CONTRACT | | |
| NOM | NOMINAL | | |
| NTS | NOT TO SCALE | | |

GENERAL NOTES

- MECHANICAL AND ELECTRICAL DRAWINGS ARE SUPPLEMENTAL TO THE ARCHITECTURAL DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO CHECK WITH THE ARCHITECTURAL DRAWINGS BEFORE THE INSTALLATION OF MECHANICAL OR ELECTRICAL CONSTRUCTION. ANY DISCREPANCIES BETWEEN THE ARCHITECTURAL AND CONSULTING ENGINEERS' DRAWINGS SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION FOR CLARIFICATION. ANY CONSTRUCTION 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.
- ALL WORK SHALL COMPLY WITH THE 2010 ADA ACCESSIBILITY GUIDELINES (AMERICANS WITH DISABILITIES ACT).
- CODES GOVERNING THIS WORK INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING: 2018 INTERNATIONAL BUILDING CODE, APPLICABLE OSHA REGULATIONS, REQUIREMENTS OF CODES AND REGULATIONS SHALL BE CONSIDERED AS MINIMUM. WHERE THE CONTRACT DOCUMENTS EXCEED (WITHOUT VIOLATING) CODE AND REGULATION REQUIREMENTS, CONTRACT DOCUMENTS SHALL TAKE PRECEDENCE. WHERE CODES CONFLICT, THE MORE STRINGENT SHALL APPLY.
- THE CONTRACTOR SHALL PROVIDE ADEQUATE BARRICADES AND PROTECTIVE DEVICES SEPARATING CONSTRUCTION AREAS. TEMPORARY PASSAGES SHALL BE PROVIDED AS REQUIRED. THE CORRIDORS AND OTHER AREAS SHALL BE SEPARATED FROM THE CONSTRUCTION ZONE BY A NON-COMBUSTIBLE BARRIER FASTENED SECURELY TOP AND BOTTOM AND AT EACH END. PRIOR TO DELIVERY OF MATERIALS TO CONSTRUCTION ZONE AND REMOVAL OF WASTE FROM SITE THE CONTRACTOR SHALL CHECK WITH THE OWNER FOR AN ACCEPTABLE ROUTE AND TIME. ALL DOORS IN THE TEMPORARY PASSAGES SHALL HAVE A 4" CLEAR WIDTH AND BE FUNCTIONAL AT ALL TIMES TO SERVE AS THE REQUIRED EXIT FROM THE RATED CORRIDOR.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER LOCATION AND SIZE OF OPENINGS FOR ALL TRADES AND SHALL COORDINATE ALL CONSTRUCTION AS INDICATED BY THE CONTRACT DOCUMENTS, INCLUDING SHOP DRAWINGS REVIEWED BY THE ARCHITECT.
- THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES PRIOR TO COMMENCEMENT OF WORK.
- THE CONTRACTOR SHALL COORDINATE WITH THE OWNER ALL MEASURES TO ACCOMPLISH THE WORK WITH THE MINIMUM OF INTERRUPTION TO NORMAL BUILDING PROCEDURES. SYSTEM SHUTDOWNS OF HVAC, PLUMBING, ELECTRICAL, AND NOISY CONSTRUCTION INCLUDING POTO HAMMER, SAW CUTTING, CONCRETE ANCHORS, ETC. SHALL BE COORDINATED WITH THE OWNER AT LEAST 72 HOURS PRIOR TO COMMENCEMENT.
- ALL DIMENSIONS ARE SHOWN TO FACE OF FINISH OF NEW CONSTRUCTION AND FACE OF FINISH OF EXISTING CONSTRUCTION, UNLESS NOTED OTHERWISE.
- ALL DRAWINGS, THOUGH NOTED TO SCALE ARE FOR ILLUSTRATION ONLY. THE CONTRACTOR SHALL NOT SCALE DRAWINGS.
- WHEN A DETAIL IS IDENTIFIED AS TYPICAL, THE CONTRACTOR IS TO APPLY THIS DETAIL IN ESTIMATING AND CONSTRUCTION TO EVERY LIKE CONDITION WHETHER OR NOT THE REFERENCE IS REPEATED IN EVERY INSTANCE.
- ALL PENETRATIONS INTO SOUND OR FIRE RATED PARTITIONS, FLOORS OR CEILING ASSEMBLIES SHALL BE SEALED WITH APPROVED PERMANENT RESILIENT SEALANT. REFER TO IBC 2018 FOR REQUIREMENTS FOR OPENINGS IN FIRE RATED WALLS. FOR OPENINGS LESS THAN 16 SQUARE INCHES, THE SPACE BETWEEN THE WALL AND ALLOWED PENETRATIONS MUST BE SEALED TO PREVENT THE MOVEMENT OF HOT FLAME OR GASES. ELECTRICAL DEVICES, RECESSED CABINETS, ETC. SHALL BE SEALED, LINED, INSULATED OR OTHERWISE TREATED TO MAINTAIN THE INTEGRITY OF THE ASSEMBLY. SEE PENETRATION DETAILS.
- DRAWINGS HAVE BEEN DETAIL IN COMPLIANCE WITH U.L. LISTING REQUIREMENTS AND ICB0 REPORTS FOR THE MATERIALS SPECIFIED. IF AN ALTERNATE OR SUBSTITUTED MATERIAL IS ACCEPTED AS AN EQUAL BY THE GENERAL CONTRACTOR, HE/SHE WILL ASSUME THE RESPONSIBILITY FOR WHATEVER CONSTRUCTION MODIFICATION AND/OR ADDITIONAL COSTS ARE REQUIRED.
- ALL TRASH SHALL BE REMOVED DAILY. BUILDING MATERIALS MAY NOT BE STORED IN THE CORRIDORS AT ANY TIME. BLOCKAGE OF ANY REQUIRED EXIT IS PROHIBITED.
- THE CONTRACTOR SHALL VERIFY SIZES AND LOCATIONS OF WATER AND DRAIN INSTALLATIONS AND OTHER REQUIRED SERVICES WITH EQUIPMENT MANUFACTURERS.
- ABBREVIATIONS THROUGHOUT THE PLAN ARE THOSE IN COMMON USE. THE ARCHITECT SHALL DEFINE THE INTENT OF ANY IN QUESTION.
- INTERIOR FINISHES SHALL CONFORM TO THE REQUIREMENTS OF 2018 I.B.C.
- CONTRACTOR SHALL REFER TO THE PROJECT MANUAL FOR A COMPLETE LIST OF GENERAL CONDITIONS, SPECIAL CONDITIONS AND OTHER NOTES.
- INSTALL METAL CORNER BEADS AT ALL EXPOSED WALLBOARD EDGES. INSTALL CASING BEADS WHEREVER WALLBOARD, PLASTER, ETC ADJUTS A DISSIMILAR FINISH MATERIAL. ALL DOOR SIZES SHOWN ON DOOR SYMBOLS ARE OPENING SIZES. ALLOWANCE FOR THRESHOLDS, ETC. SHOULD BE CONSIDERED. ALL DOORS AND FRAMES SHALL BE REINFORCED WHERE REQUIRED FOR CLOSERS, STOPS AND HARDWARE.
- ALL WOOD TRIMS, SPACER, FILLER, ETC. THROUGHOUT JOB SHALL BE FIRE RETARDANT PRESSURE-TREATED, AS PER 2018 I.B.C. CONTRACTOR SHALL LOCATE BACKING PLATES BEHIND ALL WALL MOUNTED EQUIPMENT, CASEWORK, WALL MOUNTED DOOR STOPS AND ACCESSORIES TO ENSURE POSITIVE ATTACHMENT TO THE STRUCTURE. SEE RELEVANT DETAILS.
- ELEVATIONS ARE WITH RESPECT TO FINISH FLOOR ELEVATION. VERIFY FINISH FLOOR HEIGHT.

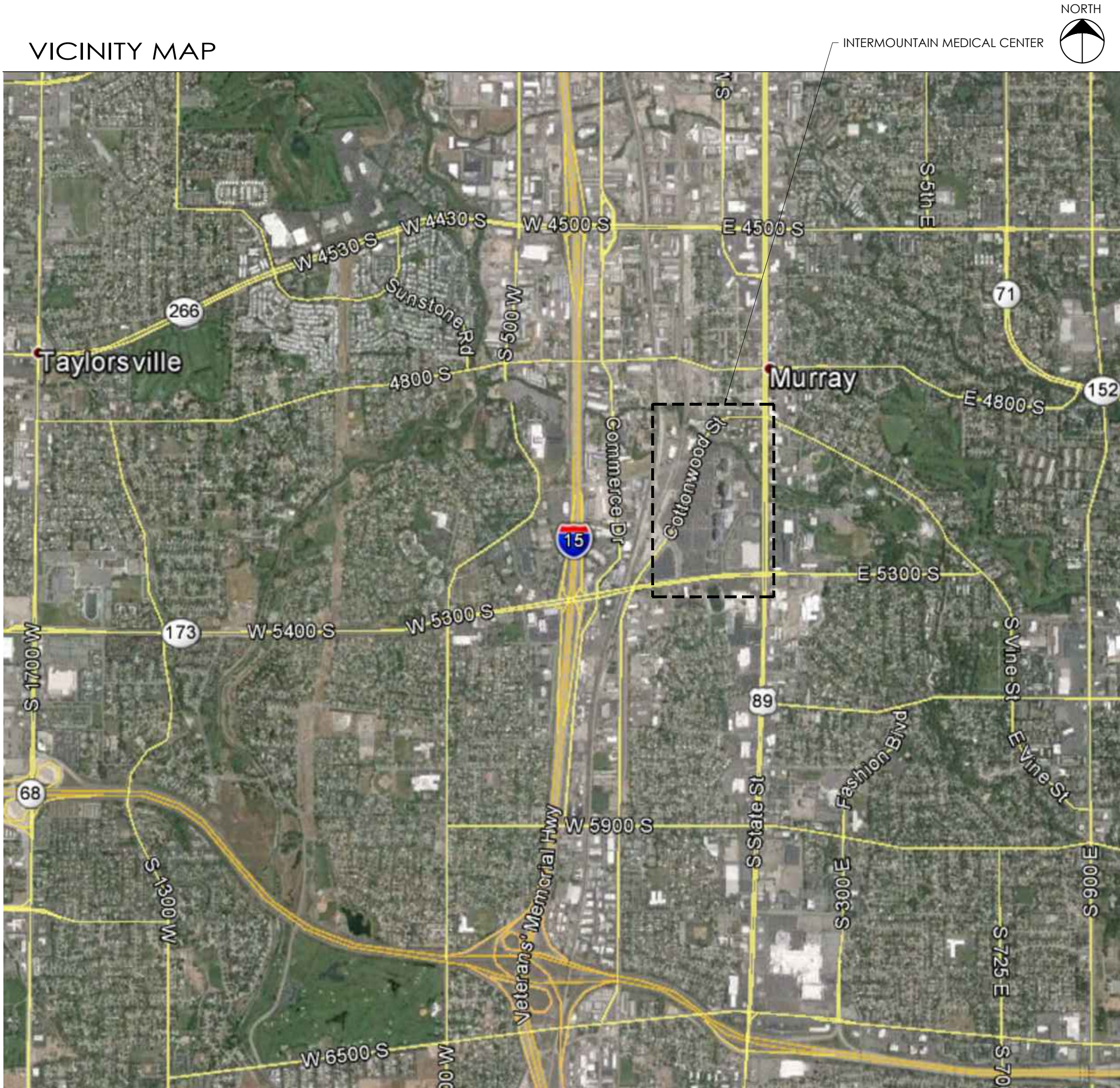
GENERAL SYMBOL LEGEND

| | |
|--|-----------------------------------|
| | RIGID INSULATION |
| | WOOD FRAMING - CONTINUOUS |
| | WOOD FRAMING - NON-CONTINUOUS |
| | GYPSUM BOARD |
| | STEEL (SECTION OR STUD PARTITION) |
| | GRAVEL |
| | CONCRETE (SECTION) |
| | STUCCO OR CONCRETE (ELEVATION) |
| | PLYWOOD |
| | FINISH WOOD |
| | BRICK |
| | CONCRETE MASONRY UNIT |
| | EARTH |
| | ALUMINUM |
| | BATT INSULATION |
| | CORNER GUARD |
| | ACOUSTICAL CEILING TILE |
| | ASPHALT PAVING |
| | STONE |
| | GRID LINE |
| | KEYED NOTE |
| | DETAIL REFERENCE |
| | BUILDING / WALL SECTION |
| | DIRECTION NORTH |
| | WINDOW TAG |
| | DOOR TAG |
| | ROOM NAME AND NUMBER |
| | WALL TYPES |

INTERIM LIFE SAFETY MEASURES

- Implementation of ILSM is required in or adjacent to all construction areas and throughout buildings with existing LSC deficiencies. ILSM apply to all personnel, including construction workers, must be implemented upon project development, and continuously enforced through project completion. ILSM are intended to provide a level of life safety comparable to that described in chapters 1 through 7, 31 and the applicable occupancy chapters of the LSC. Each ILSM action must be documented through written policies and procedures. Except as stated below, frequencies for inspection, testing, training, and ILSM consist of the following actions:
- Ensuring exits provide free and unobstructed egress. Personnel shall receive training if alternative exits must be designated. Buildings or areas under construction must maintain escape facilities for construction workers at all times. Means of egress in construction areas must be inspected daily.
 - Ensuring free and unobstructed access to emergency departments/ services and for emergency forces.
 - Ensure fire alarm, detection, and suppression systems are not impaired. A temporary, but equivalent, system shall be provided when any fire system is impaired. Temporary systems must be inspected and tested monthly.
 - Ensuring temporary construction partitions are smoke tight and built of noncombustible or limited combustible materials that will not contribute to the development or spread of fire.
 - Providing additional fire-fighting equipment and use training of personnel.
 - Prohibiting smoking in accordance with MA 1.3.15 and in or adjacent to all construction areas.
 - Developing and enforcing storage, housekeeping, and debris removal practices that reduce the flammable and combustible fire load of the building to the lowest level necessary for daily operations.
 - Conducting a minimum of two fire drills per shift per quarter.
 - Increasing hazard surveillance of buildings, grounds, and equipment with special attention to excavations, construction areas construction storage, and field offices.
 - Training personnel when structural or compartment features of fire safety are compromised.
 - Conducting organization wide safety education programs to ensure awareness of any LSC deficiencies, construction hazards, and these ILSM.

VICINITY MAP

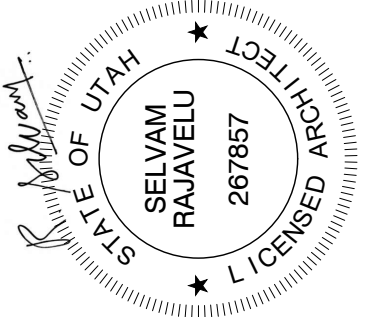


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Intermountain Healthcare
IMC- Cath Lab 1 Remodel Project

5121 South Cottonwood Street
Murray, UT 84107

NJRA Project # 20229
Construction Documents December 15, 2021

General
Information

G002

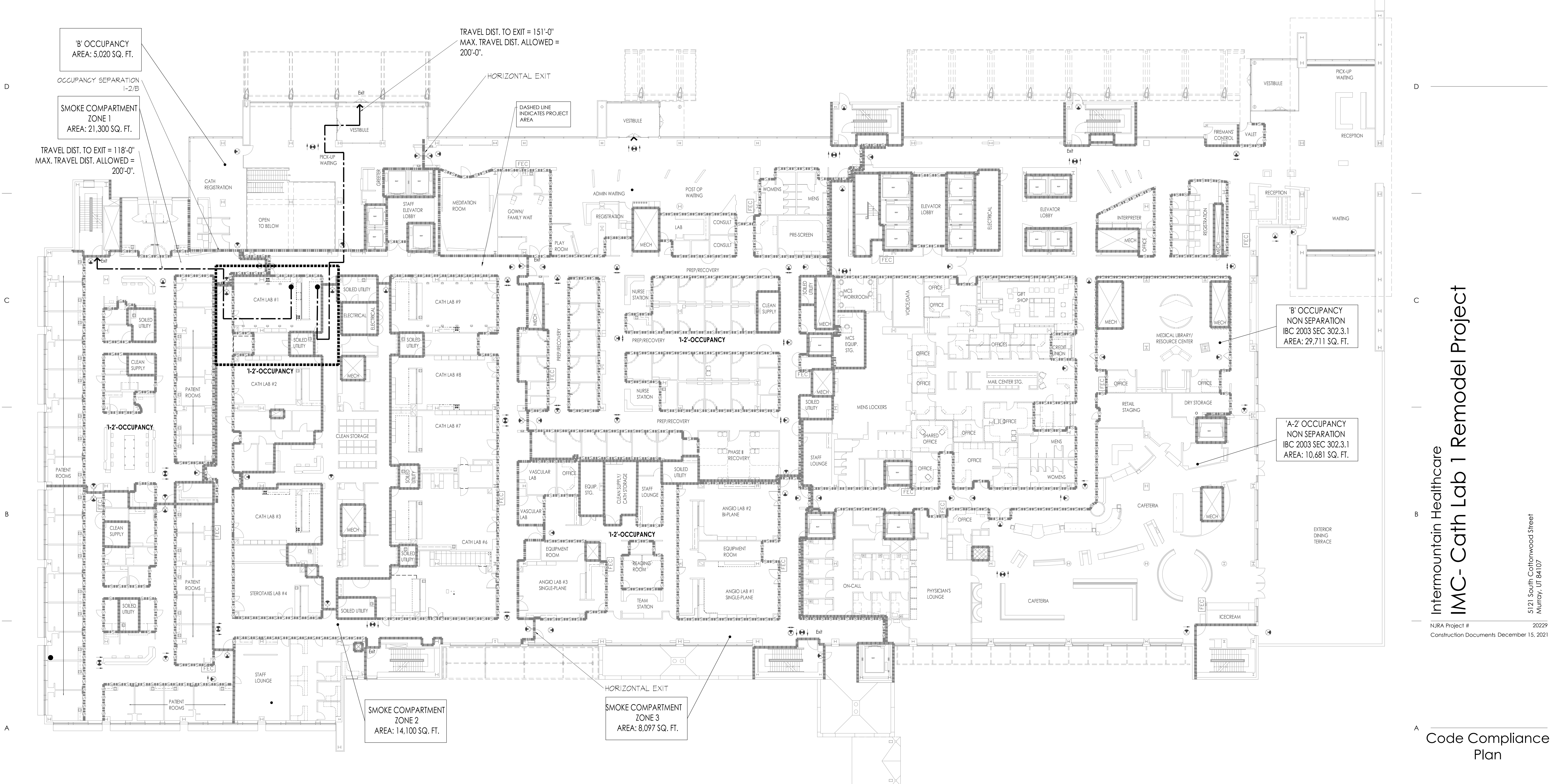
| 2018 - I B C REVIEW | | | | APPLICABLE CODES | LEGEND |
|--|---|--|--|--|--|
| Main Hospital Actual Stories: 15 (New Cath Lab at Level 1 of Building 4) Project Square feet (BGSF): 923 Occupancy: I-2 Construction Type: 1A Fireproofing: Yes Highrise: Yes Automatically Sprinkled: Yes Structure: Unbonded Brace Frame | Allowable Area For I-2 Occupancy & Type I-A Const.: Unlimited sq. ft. per floor (Table 503) Area increase due to frontage: N/A Total allowable area per floor: Unlimited sq. ft. (Table 503) Project Remodel Area: 923 sq. ft. Allowable Stories For I-2 Occupancy & Type I-A Const.: Unlimited Stories (Table 503) Actual Stories: 13 above grade and 2 below grade Common path of egress travel in exit access areas For I-2 Occupancy - 75 feet (1014.3) Exit access travel distance For I-2 Occupancy - 200 feet (with sprinkler system) (Table 1016.1) Corridor Width For I-2 Occupancy - 96 inches in areas where required for bed movement (1018.2) | Construction Type : Type I-A Fire resistance rating requirements for building elements (Table 601) Structural frame - 3 Hours Exterior Bearing walls - 3 Hours Interior Non-Bearing walls- 0 Hours Floor Construction - 2 Hours Roof Construction - 1½ Hours | Sprinkler System Entire Building is fully equipped with automatic sprinkler system. Incidental use areas Waste & linen collection rooms located in I-2 occupancy - 1 hour (IBC Table 509) Storage rooms larger than 100 sq.ft. and storing combustible material- 1 hour (NFPA 18.3.2.1) Storage rooms larger than 50 sq.ft and not exceeding 100 sq.ft.- provide door closer. (NFPA 18.3.6.3.11) Occupant Load (Table 1004.1.1) Inpatient Treatment areas- 240 sq.ft. per person Total Occupant Load = 5 occupants Egress width calculation: Required egress width per IBC sec. 1005.1 = occupant load x 0.3 5 x 0.3= 1.5 inches Egress width provided = 36 inches | International Building Code (IBC) 2018 International Fire Code 2018 International Mechanical Code (IMC) 2018 International Plumbing Code 2018 National Electric Code 2017 NFPA 101 Life Safety Code 2018 ANSI 117.1 2009 | 0-HR SMOKE PARTITION WALL 1-HR FIRE RATED SMOKE BARRIER WALL SEPARATING SMOKE ZONES 1-HR FIRE RATED WALL 2-HR FIRE RATED WALL DENOTES PATH OF TRAVEL TO EXIT. FIRE EXTINGUISHER CABINET EXIT SIGN OCCUPANT LOAD |
| | | | | | |

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STATE OF UTAH
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SEAL OF THE ARCHITECT
2016





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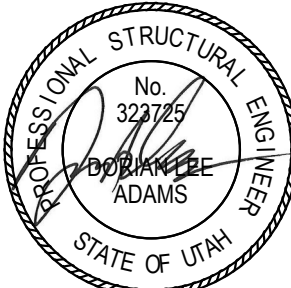
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December 21, 2021



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Intermountain Healthcare
IMC- Cath Lab 1 Remodel Project

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NJRA Project # 19205.00
100% CD December 21, 2021

STRUCTURAL
GENERAL NOTES

S001

1. Design Criteria

- 1.1. Governing Building Code 2018 International Building Code (IBC)
A. Risk Category IV
- 1.2. Earthquake
A. Seismic Design Category D
B. Spectral Response Accelerations
S_s = 1.55 g S_{0.5} = 1.035 g
S₁ = 0.529 g S_{0.1} = 0.529 g
C. Soil Site Class D
F_a = 1.0 F_v = 1.5
D. Importance Factor, I_e 1.5

2. Structural Steel

- 2.1. Material:
A. W-Shapes: ASTM A992 (F_y = 50 ksi), except as noted otherwise
B. All Other Shapes and Plates: ASTM A36 (F_y = 36 ksi), except as noted otherwise
C. Rectangular and Square Hollow Structural Sections (HSS): ASTM A500, Grade C (F_y = 50 ksi)
D. Round HSS: ASTM A500, Grade C (F_y = 48 ksi)
- 2.2. Fabrication and construction shall comply with the following Codes and Standards:
A. American Institute of Steel Construction (AISC) 360-16, "Specification for Structural Steel Buildings"
B. AISC 303-16, "Code of Standard Practice for Steel Buildings and Bridges" excluding the following: Section 3.3 (last two sentences of first paragraph), Section 4.4, Section 4.4.1, Section 4.4.2, Section 4.5, and Section 7.13.3
1. The architectural drawings are the prime contract drawings. Consultants' drawings by other disciplines are supplementary to the architectural drawings. The structural drawings shall be used in conjunction with the architectural drawings. Detailing and shop drawing production for structural elements will require information (including dimensions) contained in architectural, structural, and/or other consultants' drawings. Refer to the Special Instructions section of the general notes, below.
C. American Welding Society (AWS) D1.1:2015, "Structural Welding Code – Steel" (specific items do not apply when they conflict with the AISC requirements)
- 2.3. Structural shapes and plates shall be fabricated from newly rolled (milled) one-piece sections without splices, unless specifically noted otherwise on the structural drawings. Connections for structural steel shall comply with the structural drawings, unless written approval is given by the Structural Engineer.
- 2.4. Welding:
A. It is recommended the steel erection contractor and steel fabricator contact the Quality Assurance Agency prior to beginning any welds. A program of joint preparation and welding procedures should be worked out between the two parties before the welding is started so that correct welds will be made from the beginning.
B. Certification of Welders: All shop and field welding shall be executed by AWS certified welders who have been specifically certified for the process of welding being performed. The welder's certification will be considered as being current unless the welder is not engaged in the process of welding being performed for a period exceeding six months or there is a specific reason to question a welder's ability as required by AWS. Certification and records must comply with AWS Standards. Certification and appropriate records must be provided to the Architect prior to beginning work.
C. Electrodes: E-70 XX or as noted otherwise. E60 XX may be used for welding steel floor and roof decks.
D. Minimum Welds: All intersecting steel shapes that are not bolted shall be connected by a fillet weld all around, unless noted otherwise. Fillet weld sizes that are not shown shall be 1/16" less than the thinnest of the connected parts for thicknesses 1/4" and larger. Fillet welds on plates less than 1/4" shall be of the same size as the thinnest of the connected parts.

3. Miscellaneous

- 3.1. Post-Installed Anchors in Concrete
A. Anchorage to hardened concrete shall include all mechanical and adhesive anchors and epoxy doweled reinforcing bars of size, quantity, spacing, and embedment as shown on the drawings. Additional anchors shall not be used without approval from the Engineer prior to installation.
B. Special inspection is required during the installation of all post-installed anchors. Refer to applicable code evaluation reports and the Quality Assurance and Statement of Special Inspections sections of the General Structural Notes.
C. Anchorage to Concrete:
1. All post-installed anchors into hardened concrete shall be selected from the following pre-approved products, unless noted otherwise:
- | Steel Screw Anchor | Evaluation Report |
|--------------------|-------------------|
| Hilti Kwik HUS-EZ | ICC ESR-3027 |
| DeWalt Screw-Bolt* | ICC ESR-3889 |
| Simpson Titen HD | ICC ESR-2713 |
- | Steel Expansion/Wedge Anchor | Evaluation Report |
|------------------------------|-------------------|
| Hilti Kwik Bolt T22 | ICC ESR-4266 |
| DeWalt Power-Stud* SD2 | ICC ESR-2502 |
| Simpson Strong-Bolt 2 | ICC ESR-3037 |
- | Adhesive Anchor System | Evaluation Report |
|------------------------|-------------------|
| Hilti HIT-HY 200 | ICC ESR-1817 |
| Hilti HIT-RE 500 V3 | ICC ESR-3814 |
| DeWalt AC208+ | ICC ESR-4027 |
| DeWalt Pure 110+ | ICC ESR-3288 |
| Simpson SET-3G | ICC ESR-4057 |
2. Adhesive anchors shall be installed into concrete having a minimum age of 21 days. For installations sooner than 21 days, consult the adhesive manufacturer.
D. Alternate anchors or adhesives are permitted with approval of the Engineer. The Contractor shall submit the proposed anchor product data and code evaluation report demonstrating the anchor is equivalent to or exceeds the capacity of the specified anchor.
E. Installation of adhesive anchors horizontally or upwardly inclined to support sustained tension loads shall be performed by personnel certified by an applicable certification program. Certification shall include written and performance tests in accordance with the ACI/CRSI Adhesive Anchor Installer Certification program, or equivalent. Proof of current certification shall be submitted to the Engineer for approval prior to commencement of installation.
F. Anchors shall be installed according to the Manufacturer's Printed Installation Instructions and applicable code evaluation reports including:
1. Hole diameter, depth, and cleaning procedure
2. Adhesive mixing, preparation, and placement
3. Installation torque
G. Locate all existing reinforcement and embedded items prior to drilling into concrete elements. Do not damage rebar or embeds while drilling or installing anchors.
H. Grout all defective or abandoned holes with non-shrink grout or an injectable epoxy adhesive matching the surrounding concrete compressive strength. Consult the Architect for additional requirements at architecturally exposed concrete.
I. Carbon steel anchors are limited to use in dry, interior locations.
J. Holes for post-installed anchors may not be core drilled unless specifically allowed by the manufacturer's installation instructions and the code evaluation report.

3.2. Existing conditions

- A. Existing conditions:
1. The contract structural drawings represent the reconfigured structure and do not indicate the method or means of construction. The Contractor shall supervise and direct the work and shall be solely responsible for all construction means, methods, procedures, techniques, and sequence.
2. The Contractor is responsible for being knowledgeable on information presented in available new or existing drawings and shall field verify all relevant information. Information available in existing drawings may be incomplete. Contractor shall familiarize themselves with information available in the existing and new drawings, and shall field verify all pertinent information.
3. Contractor shall field verify all existing conditions prior to performing any work, including but not limited to: bidding and estimating, shoring, detailing, fabricating, manufacturing, erecting, or installing any given structural element indicated in the contract drawings.
4. Information on existing conditions provided in the contract drawings are based on information gathered from existing drawings and during limited site observations. If conditions shown do not match existing conditions, contact architect/engineer prior to performing any work. Do not proceed until instructions in writing are provided by the architect/engineer.
5. Dimensional information provided in the contract drawings on existing conditions are for general information and reference purposes only and shall not be used for detailing and construction.
6. Contractor shall provide dust, odor, and noise protection, and safety measures as necessary to protect the existing structure, vehicles, building interior, building patrons and other persons for the duration of demolition and construction operations.
7. Contractor shall safely shore existing construction to allow the installation of new work, see shoring and stabilization section for additional information. Selected demolition sequencing and shoring methods used shall be the responsibility of the Contractor and their engineer.
8. Contractor shall refer to existing drawings of the existing facility to verify:
a. Structural member sizes and locations, slab thickness
b. Location of previous additions, alterations, or repairs performed at the facility
c. Location of expansion joint systems
d. Location of interior architectural items
9. Demolition, cutting, drilling, etc. work shall be performed as to not damage existing structure that is to remain and shall not jeopardize the structural integrity of the existing building. If any architectural, structural, or MEP members not designated for removal interfere with the new work, the Owner, Architect, and Engineer shall be notified immediately and approval obtained prior to their removal.
10. Contractor shall repair all damage caused during construction or demolition. All damage shall be repaired and restored with similar materials and workmanship to levels acceptable to the Owner.

4. Special Instructions

- 4.1. The project specifications are not superseded by the General Structural Notes but are intended to be complementary to them. Consult the specifications for additional requirements in each section. Notes and specific details on the drawings shall take precedence over General Structural Notes and typical details.
- 4.2. The architectural drawings are the prime contract drawings. Consultant drawings by other disciplines are supplementary to the architectural drawings. All omissions or conflicts, including dimensions, between the various elements of the consultants' drawings and/or specifications shall be brought to the attention of the Architect before proceeding with any work involved. In case of conflict, follow the most stringent requirement as directed by the Architect without additional cost to the Owner. Any work done by the Contractor after discovery of such discrepancy shall be done at the Contractor's risk.

- 4.3. The structural drawings shall be used in conjunction with the architectural drawings. Primary structural elements and overall structural layout are indicated within the structural plans and details. Some secondary elements, architectural layouts, alcoves, elevations, slopes, depressions, curbs, mechanical equipment and electrical equipment, are not indicated within the structural drawings. Detailing and shop drawing production for structural elements will require information (including dimensions) contained in the architectural, structural and/or other consultants' drawings.
- 4.4. All expansion joints (E.J.) shown in the structural drawings shall be considered seismic separation joints, unless noted otherwise. The width dimensioned shall be provided with a tolerance of (+1"-0") regardless of the tolerances stated in material reference standards.
- 4.5. Submittals: A copy of all shop drawings that have been submitted for review must be kept at the construction site for reference. These drawings must bear the appropriate review stamp. The shop drawing review shall not relieve the Contractor of the responsibility of completing the project according to the contract documents. The General Contractor shall review and mark all shop drawings prior to submitting them to the Architect for review. Shop Drawings made from reproductions of (these) contract drawings will be rejected.
- 4.6. Project Coordination: It shall be the responsibility of the General Contractor to coordinate with all trades any and all items that are to be integrated into the structural system. Openings or penetrations through, or attachments to the structural system that are not indicated on these drawings shall be the responsibility of the General Contractor and shall be coordinated with the Architect/Engineers. The order of construction is the responsibility of the General Contractor. It is the Contractor's obligation to provide all items necessary for the chosen procedure.
- 4.7. Contractor shall field verify all dimensions, and conditions. If the contract drawings do not represent actual conditions, Contractor shall notify Architect/Engineer prior to fabrication or construction within that area.
- 4.8. Notice of Copyright: The structural drawings, plans, schedules, notes and details are hereby copyrighted by Reaveley Engineers. Submission or distribution of documents to meet official regulatory requirements or for similar purposes in connection with the project is not to be construed as publication in derogation of Reaveley Engineers' reserved rights. The documents defining the structure are instruments of service prepared by Reaveley Engineers for one use only. Furthermore, these documents shall not be reproduced, or copied, in whole or in part by the Contractor or subcontractors for preparation of shop drawings or other submittals.

5. Quality Assurance

- 5.1. Quality Assurance Agency Requirements:
A. The Owner shall engage a qualified Quality Assurance Agency (QAA) to provide all special inspection and quality assurance testing for the project. The QAA shall provide all information necessary for the building official to determine that the agency meets the applicable requirements.
1. The QAA shall be objective, competent and independent from the Contractor responsible for the work being inspected. The agency shall disclose to the building official and the registered design professional in responsible charge possible conflicts of interest so that objectivity can be confirmed.
2. The QAA shall have adequate equipment to perform required tests. The equipment shall be periodically calibrated.
3. The QAA shall employ experienced personnel educated in conducting, supervising and evaluating tests and special inspections. Experience or training shall be considered relevant where the documented experience or training is related in complexity to the same type of special inspection or testing activities for projects of similar complexity and material qualities.
4. The QAA shall send copies of all inspection and testing reports to the building official, Owner, Architect, Engineer and Contractor. Reports shall indicate that the work inspected was or was not completed in conformance to the approved construction documents. Discrepancies shall be brought to the immediate attention of the Contractor for correction. If they are not corrected, the discrepancies shall be brought to the attention of the Architect and Engineer.
5. The QAA shall submit a final report documenting required special inspections and tests, and correction of any discrepancies noted in the inspections or tests. The final report shall be distributed to the building official, Owner, Architect and Engineer in a timely manner prior to the completion of the project.
- 5.2. Contractor Responsibilities:
A. The Contractor shall submit a written statement of responsibility to the building official and the Owner or the owner's authorized agent prior to the commencement of work on the systems or components listed in the statement of special inspections. The Contractor's statement of responsibility shall contain acknowledgement or awareness of the special requirements contained in the statement of special inspections.
B. Notification of QAA: The Contractor shall notify the QAA in a timely manner so that inspection and testing may be performed as outlined in the statement of special inspections.
- 5.3. Structural Observations by the Engineer of Record.
A. The Engineer of Record will perform structural observations at critical phases of the project. Observations will be made on a periodic basis throughout the construction of the structural system. Copies of the Engineer's report will be distributed to the Architect, Contractor, Owner, and building official.
B. Observation visits to the site by the Engineer's field representatives shall not be construed as inspection or approval of construction.

6. Statement of Special Inspections

- 6.1. The following materials, systems and components require special inspection or testing per Chapter 17 of the International Building Code (IBC).
- 6.2. For items requiring continuous inspection, a special inspector must be present onsite during the performance of that task. In most cases, periodic inspections/tests shall be performed prior to commencing the task, intermittently during the task, and at the completion of the task. For tasks labeled as "Observe," the inspector shall observe these items on a random basis. Tasks labeled as "Perform" shall be performed for each member, joint or connection.

| Structural Steel per IBC Section 1705.2.1, 1705.12.1 & 1705.13.1 | | |
|--|-----------|--|
| Item | Frequency | Detailed Instructions |
| <i>Prior to Welding (Table N5.4-1, AISC 360-16):</i> | | |
| Welder qualification records | Observe | Verify welder qualification records and continuity records |
| Verify welding procedures (WPS) and consumable certificates | Perform | |
| Material identification | Observe | Verify type and grade of material. |
| Welder identification | Observe | Confirm a system is in place by which a welder who has welded a joint or member can be identified. |
| Access holes | Observe | Verify configuration and finish. |
| Fit-up of fillet welds | Observe | Verify dimensions, cleanliness and tacking. |
| <i>During Welding (Table N5.4-2, AISC 360-16):</i> | | |
| Use of qualified welders | Observe | Verify that welders are appropriately qualified. |
| Control and handling of welding consumables | Observe | Verify packaging and exposure control. |
| Cracked tack welds | Observe | Verify that welding does not occur over cracked tack welds. |
| Environmental conditions | Observe | Verify wind speed is within limits as well as precipitation and temperature. |
| WPS followed | Observe | Verify items such as settings on welding equipment, travel speed, welding materials, shielding gas type/flow rate, preheat applied, interpass temperature maintained, and proper position. |
| Welding techniques | Observe | Verify interpass and final cleaning, each pass is within profile limitations, and quality of each pass. |
| <i>After Welding (Table N5.4-3, AISC 360-16):</i> | | |
| Welds cleaned | Observe | Verify that welds have been properly cleaned. |
| Size, length, and location of welds | Perform | Verify the size, length and location of welds. |
| Welds meet visual acceptance criteria | Perform | Verify that welds meet crack prohibition, base metal fusion, profile, size, undercut, and porosity provisions. |
| Arc strikes | Perform | Verify that arc strikes do not exist outside the permanent weld areas. |
| k-area | Perform | When welding of doubler plates, continuity plates or stiffeners has been performed in the k-area, visually inspect the web k-area for cracks. |
| Backing & weld tabs removed | Perform | If required on the approved construction documents, verify that back and weld tabs are removed. |
| Repair activities | Perform | Verify that repair activities are performed in accordance with AISC 360 and AWS D1.1. |
| Documentation | Perform | Document the acceptance or rejection of the welded joint or member. |
| Prohibited welds | Observe | Verify no prohibited welds have been added without approval of the EOR. |

Concrete Construction per IBC Sections 1705.3 & 1705.12

| Item | Frequency | Detailed Instructions |
|---|------------|--|
| Post-installed adhesive anchors installed in horizontally or upwardly inclined orientations to resist sustained tension loads | Continuous | All post-installed anchors/dowels shall be specially inspected as required by the approved ICC-ES report. Horizontally or upwardly inclined anchors that resist sustained tension loads require continuous inspection and approved installers. |
| Post-installed mechanical anchors and adhesive anchors not defined above | Periodic | |



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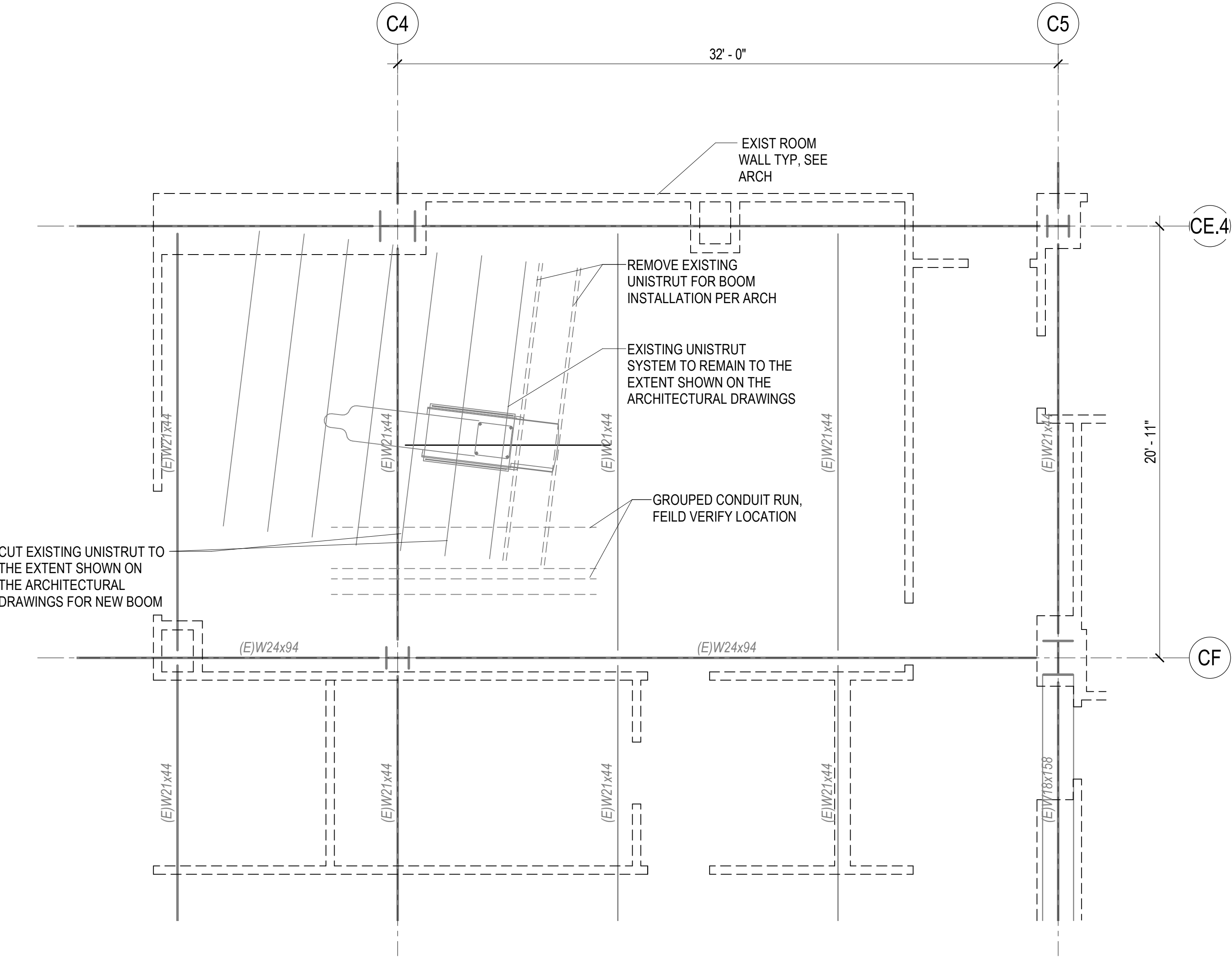
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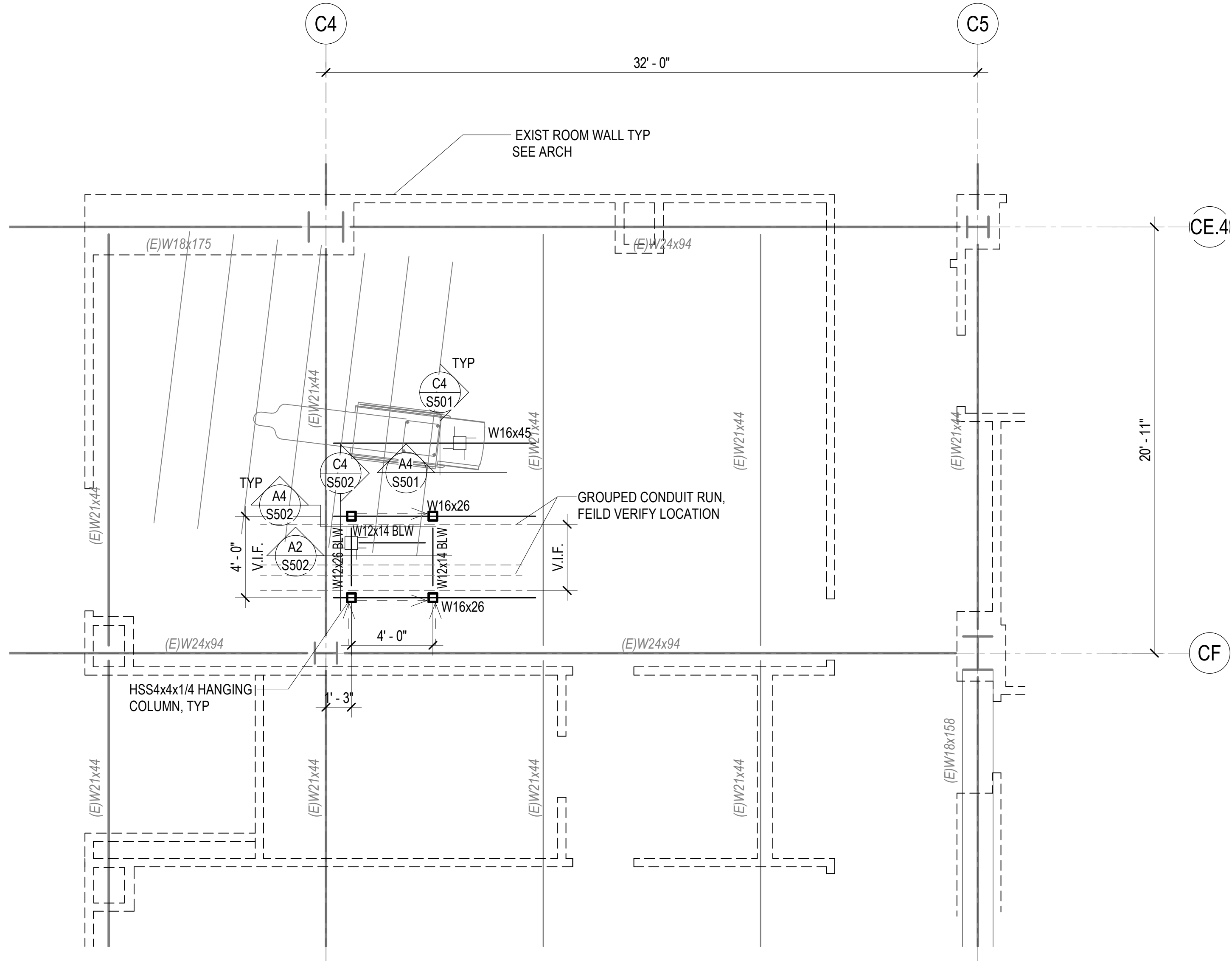
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C1 PARTIAL MEDICAL UNISTRUT AND FRAMING PLAN-LEVEL 2 - DEMOLITION
S101 SCALE: 1/4" = 1'-0"



A1 PARTIAL MEDICAL EQUIPMENT AND FRAMING PLAN - LEVEL 2 - NEW WORK
S101 SCALE: 1/4" = 1'-0"

PLAN NOTES

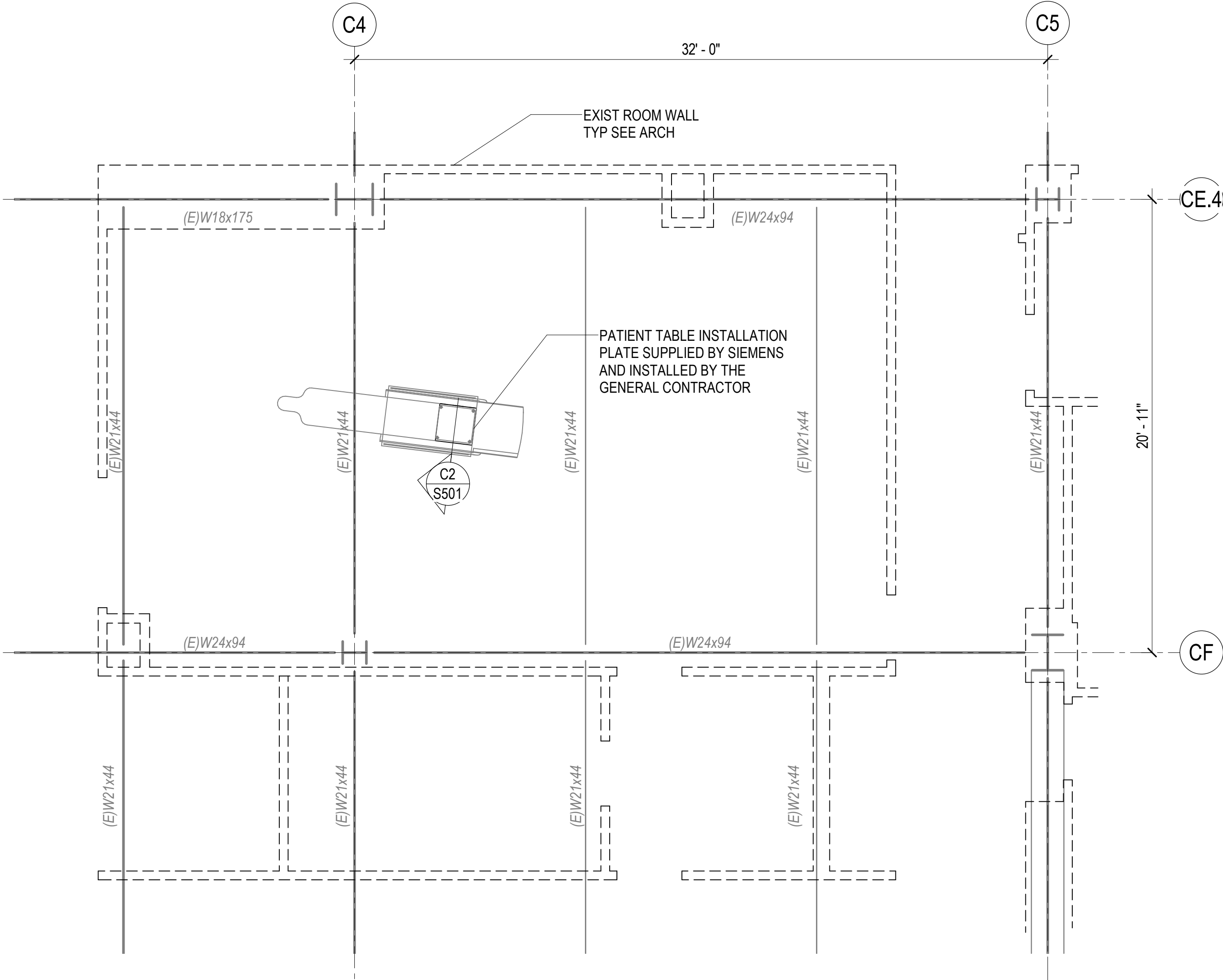
1. ONCE THE CEILING IS PARTIALLY REMOVED TO INSTALL THE NEW MEDICAL BOOM, CONTACT ENGINEER WITH 72 HOURS NOTICE TO EXAMINE EXISTING UNISTRUT SYSTEM AND CONDITIONS.

2. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO DETAILING, FABRICATING, ERECTING OR INSTALLING ANY STRUCTURAL ELEMENT. ALL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGN TEAM IN A TIMELY MANNER SUCH THAT WORK WILL NOT BE DELAYED.

3. VERIFY EQUIPMENT SUPPORT DIMENSIONS WITH MEICAL EQUIPMENT VENDORS, EXISTING BOOM SUPPORTS AND ARCHITECTURAL PRIOR TO FABRICATION.

| PLAN LEGEND | |
|-------------|-------------------------------------|
| | EXISTING STEEL COLUMN - WIDE FLANGE |
| | STEEL BEAM OR GIRDER |
| | STEEL JOIST OR PURLIN |
| | STEEL ANGLE KICKER, SEE DETAILS |
| | EXISTING STEEL BEAM OR GIRDER |
| | EXISTING STEEL JOIST OR PURLIN |

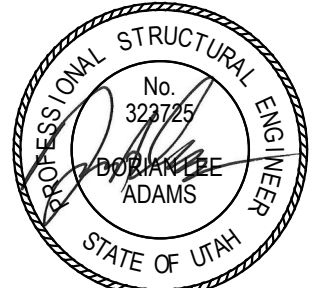
| MEDICAL EQUIPMENT LEGEND | |
|--------------------------|-------------------|
| | EQUIPMENT SUPPORT |



A2 LEVEL 1 MEDICAL EQUIPMENT AND FRAMING PLAN
S101 SCALE: 1/4" = 1'-0"



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NJRA Project # 19205.00
100% CD December 21, 2021

MEDICAL
EQUIPMENT
SUPPORT FRAMING
PLAN

S101



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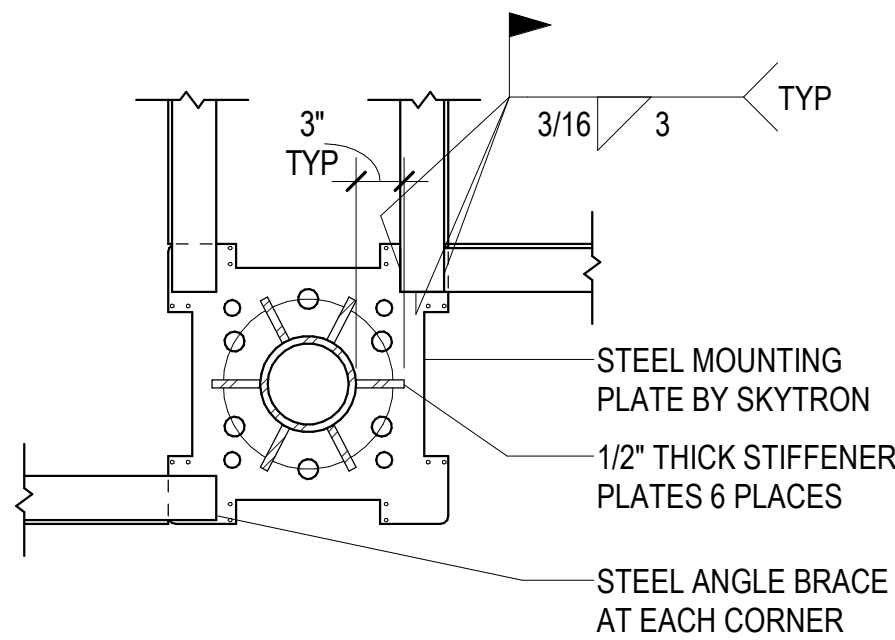
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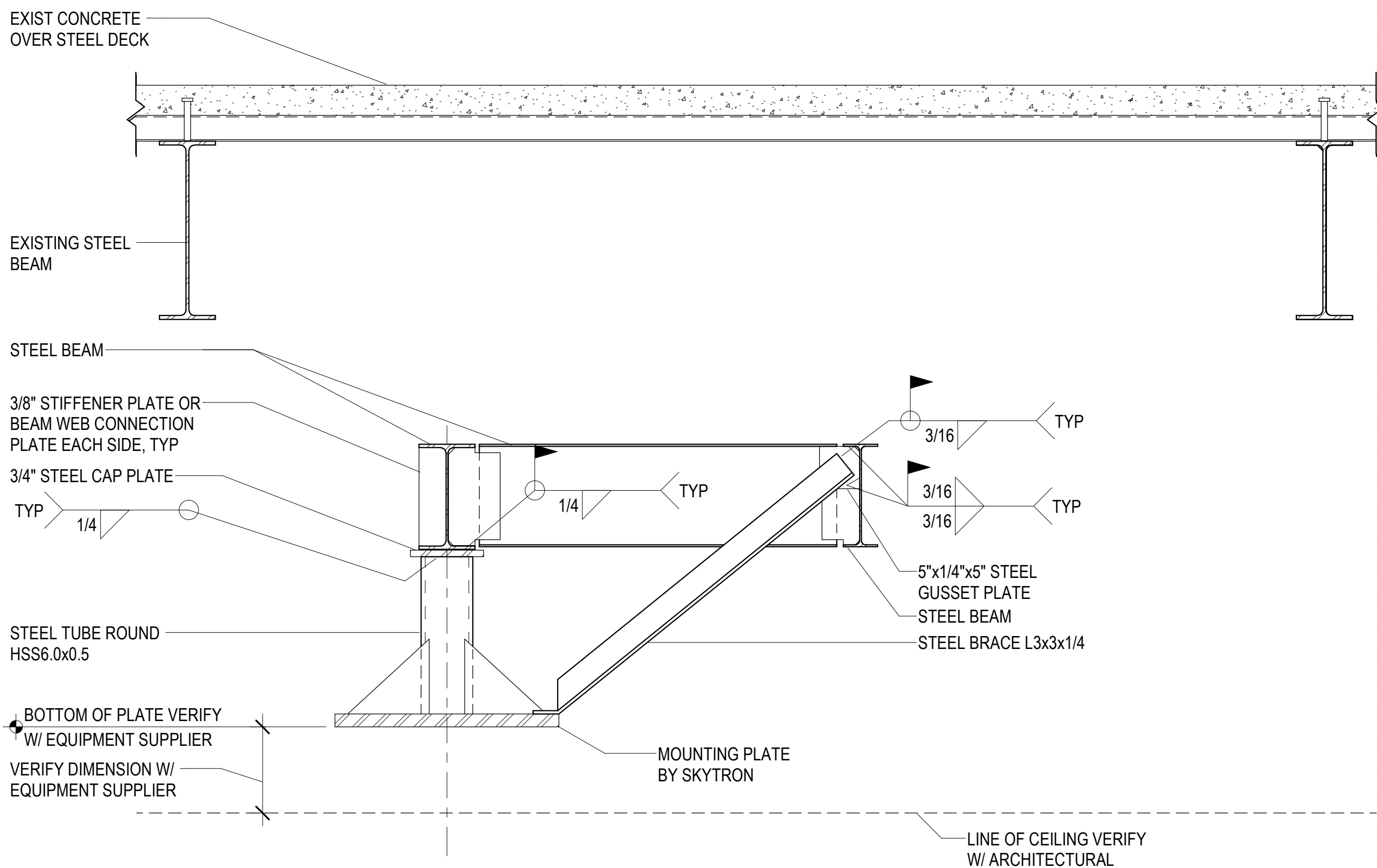
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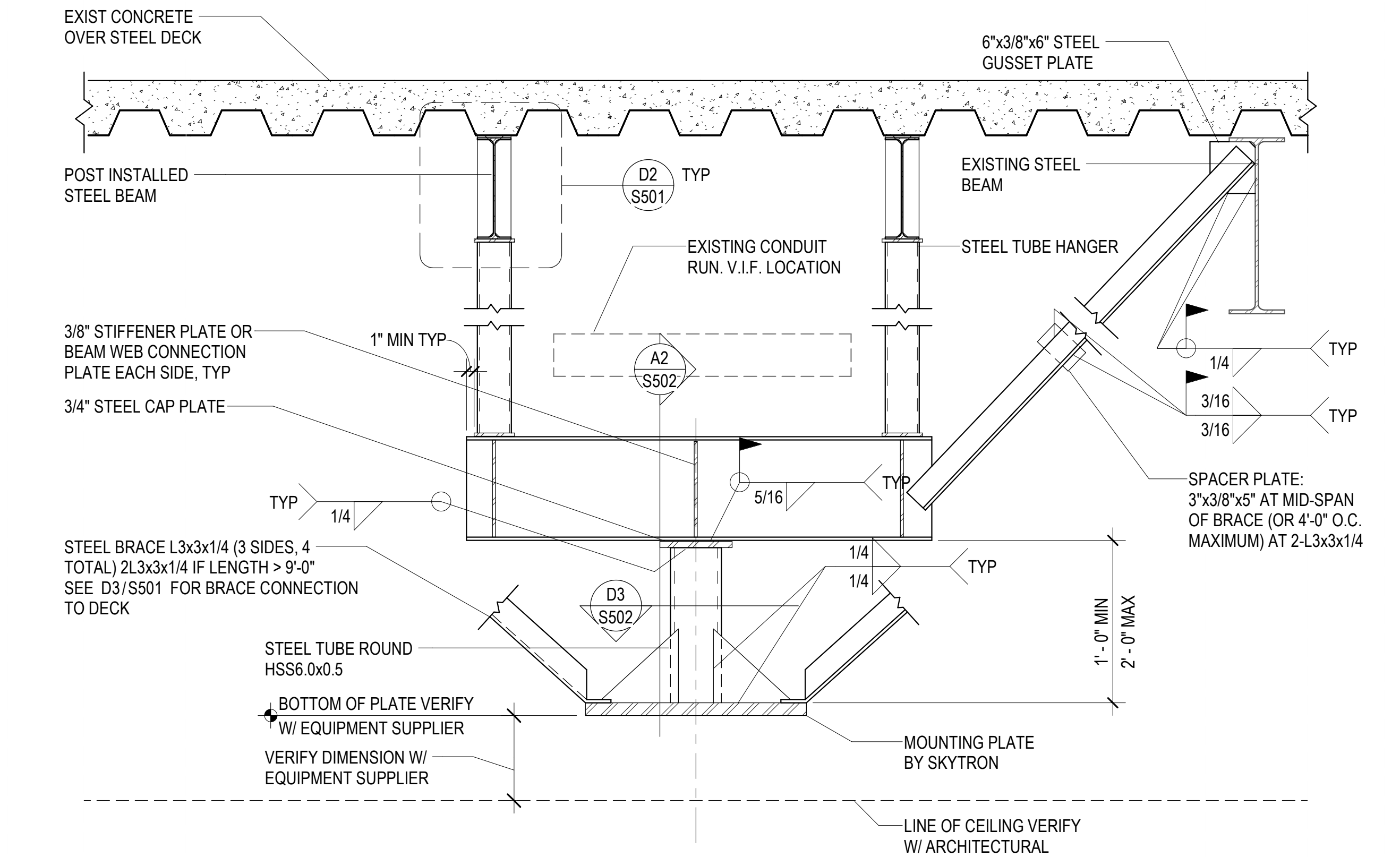
NOTE: DO NOT WELD ANGLES TO MOUNTING PLATE UNTIL PLATE IS LEVELED PER EQUIPMENT VENDOR REQUIREMENTS

D3 SKYTRON BOOM MOUNTING PLATE
S502 NO SCALE

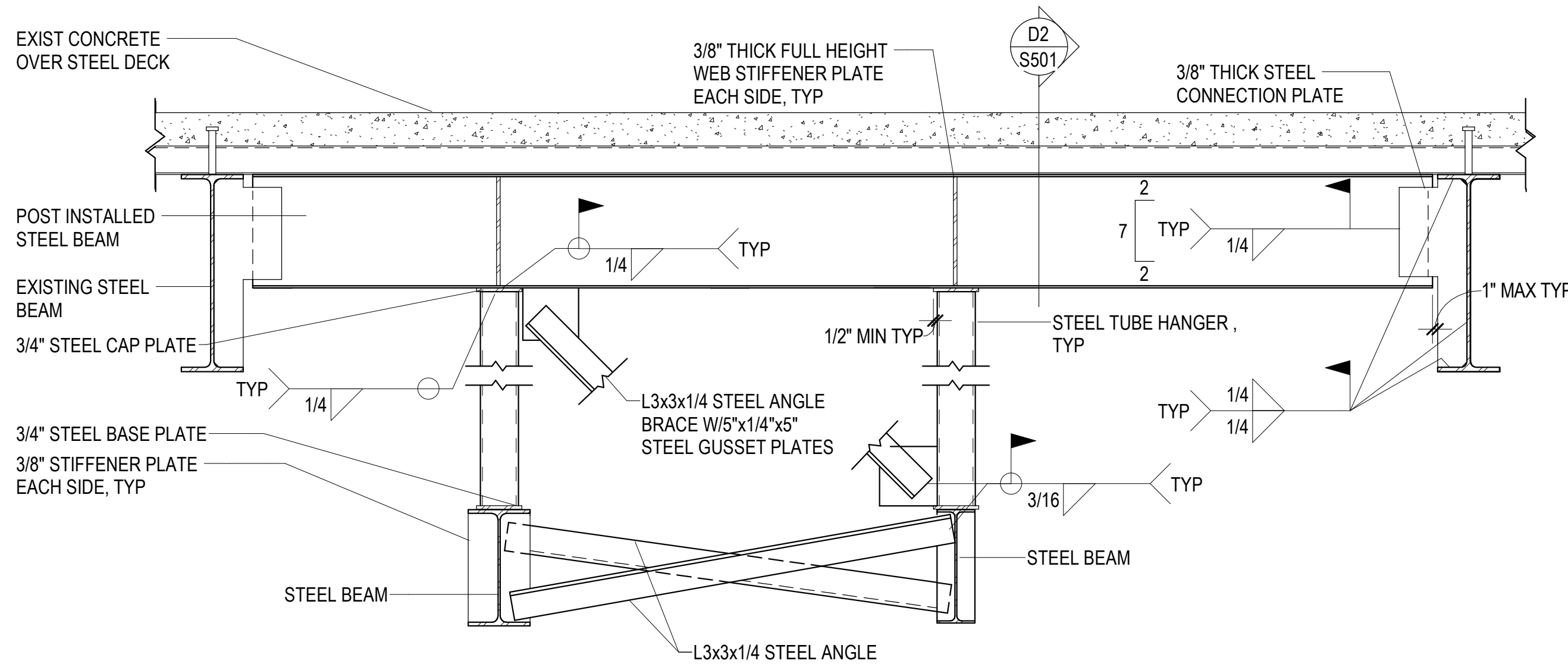


A2 SKYTRON MEDICAL EQUIPMENT MOUNT SUPPORT DETAIL
S502 NO SCALE

NOTE: THE BASIS OF DESIGN FOR THIS MEDICAL FIXTURE IS:
MANUFACTURER: SKYTRON
FIXTURE WEIGHT = 487 LB.
MOMENT LOAD = 2570 FT. LB.
MAX ALLOWED MOUNTING PLATE ROTATION FROM HORIZONTAL POSITION IS 0.2 DEGREES.



C4 SKYTRON MEDICAL EQUIPMENT MOUNT SUPPORT DETAIL
S502 NO SCALE



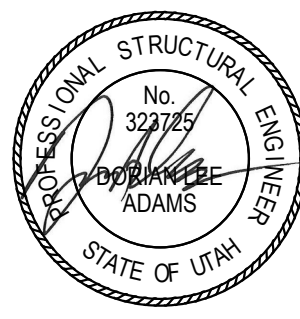
NOTE: REPAIR FIREPROOFING WHERE DAMAGED

A4 SKYTRON MEDICAL EQUIPMENT MOUNT SUPPORT DETAIL
S502 NO SCALE

NOTE: THE BASIS OF DESIGN FOR THIS MEDICAL FIXTURE IS:
MANUFACTURER: SKYTRON
FIXTURE WEIGHT = 487 LB.
MOMENT LOAD = 2570 FT. LB.
MAX ALLOWED MOUNTING PLATE ROTATION FROM HORIZONTAL POSITION IS 0.2 DEGREES.



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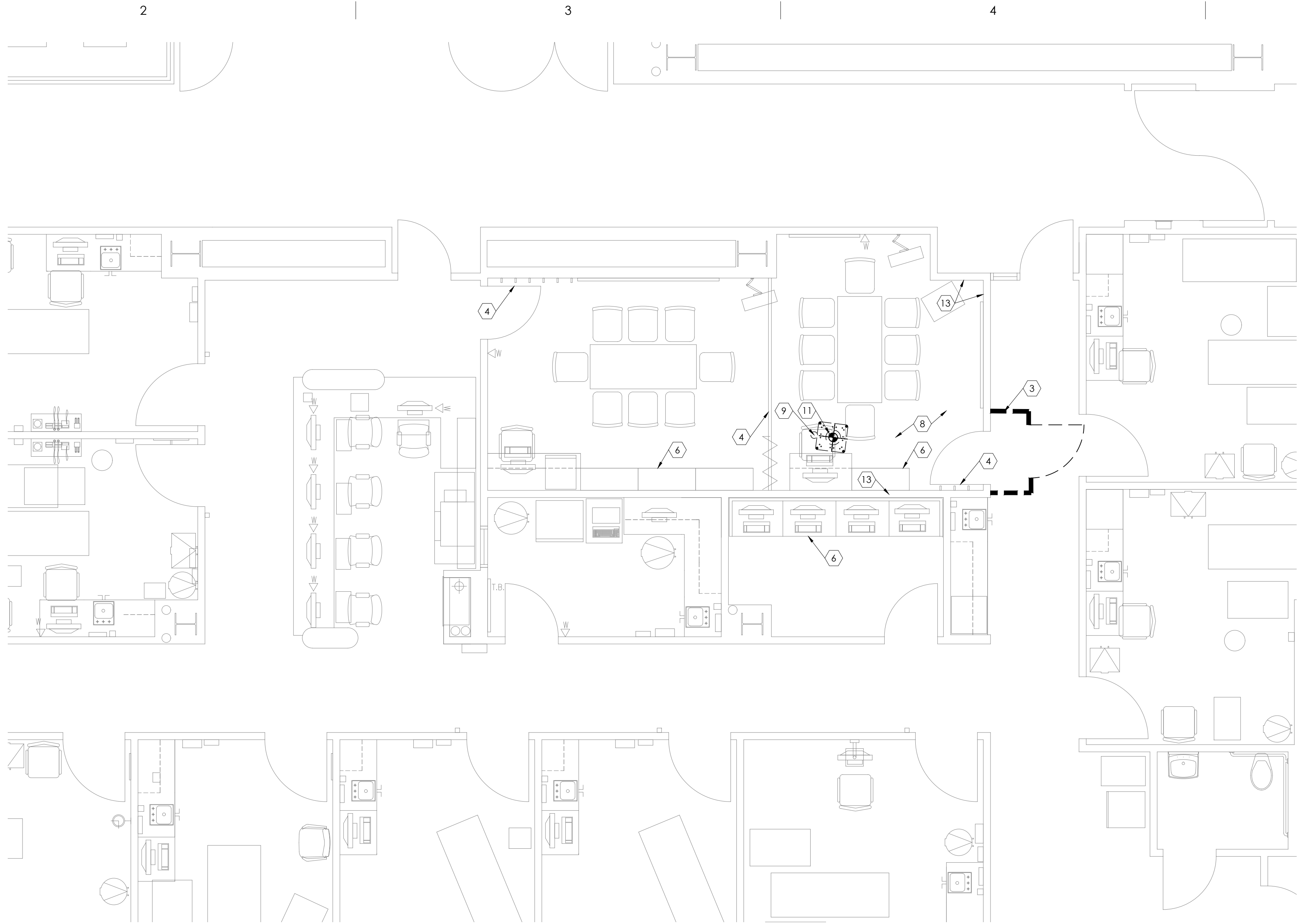
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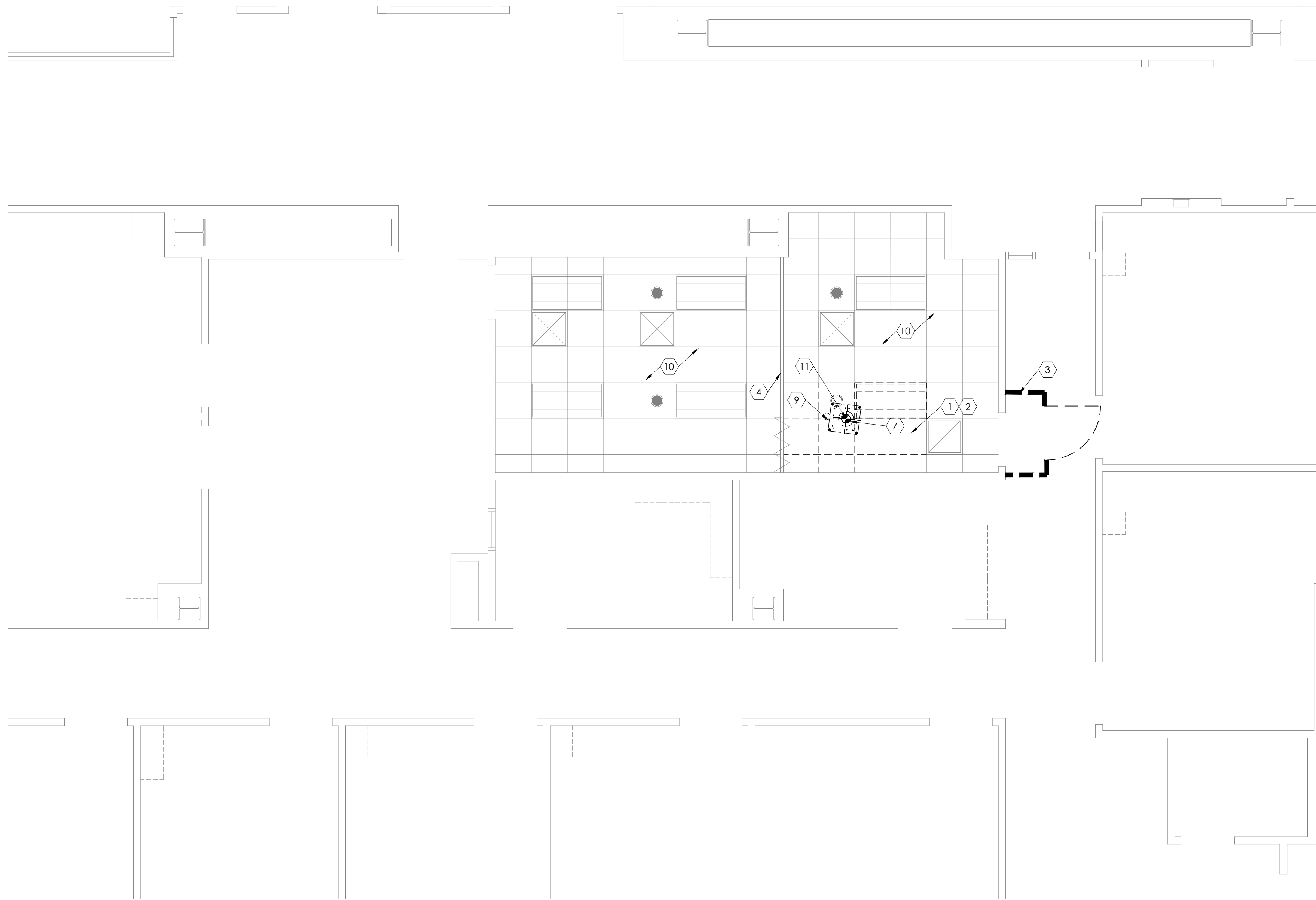
MEDICAL
EQUIPMENT
SUPPORT DETAILS

S502

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2 Demolition Floor Plan- Lower Level 1
SCALE: 1/4" = 1'-0"



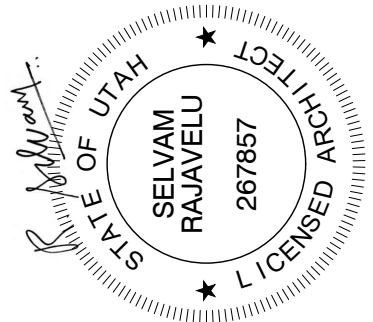
1 Demolition Reflected Ceiling Plan- Lower Level 1
SCALE: 1/4" = 1'-0"

KEY NOTES - FLOOR PLAN

- DASHED LINE INDICATES REMOVAL OF PORTIONS OF EXISTING GYPSUM BOARD CEILING, LAY IN CEILING, GRID SYSTEM, LIGHTING, DIFFUSERS ETC. FOR INSTALLATION OF THE NEW STRUCTURAL SUPPORT AT THE BOTTOM OF THE FLOOR DECK ABOVE FOR THE NEW CATH LAB EQUIPMENT AS REQUIRED. GENERAL CONTRACTOR SHALL COORDINATE WORK WITH SIEMENS TO DETERMINE THE EXTENT OF CEILING REMOVAL. SEE STRUCTURAL MECHANICAL, ELECTRICAL DRAWINGS FOR MORE INFORMATION.
- RE-INSTALL REMOVED GYPSUM BOARD AND LAY IN CEILING TO ORIGINAL CONDITION AFTER WORK IS COMPLETED ABOVE CEILING. PATCH, REPAIR, REFINISH AND REPAINT TO MATCH WITH ADJACENT EXISTING. REMOVE AND RE-INSTALL ELECTRICAL AND MECHANICAL ITEMS ALSO AS REQUIRED IN ORDER TO COMPLETE WORK IN THIS AREA TO ORIGINAL CONDITION.
- DASHED LINE INDICATES FLOOR TO CEILING TEMPORARY DUST PROOF CONSTRUCTION BARRIER TO PREVENT DUST & DIRT MIGRATION AND TO SEPARATE AREAS OCCUPIED BY OWNER FROM FUMES AND NOISE. CONSTRUCTION BARRIER TO BE ERECTED WITH 3 5/8" 20 GA. MTL. STUDS @14' O.C. FRAMING WITH 5/8" TYPE "Y" ABUSE RESISTANT GYPSUM BOARD ON BOTH SIDES. TAPE AND SEAL ALL JOINTS AND OPENINGS. SEAL JOINTS AT PERIMETER. PARTITION TO BE EQUIPPED WITH 4'-0" LOCKABLE MAIN DOOR WITH STICKY MATS ON BOTH SIDES OF DOOR. COORDINATE WITH OWNER AND FIELD VERIFY FOR EXACT LOCATION OF CONSTRUCTION BARRIER. EXISTING GYPSUM BOARD CEILING ALONG WITH EXISTING CEILING LIGHTS, MECHANICAL DIFFUSERS ETC. IN THIS AREA TO REMAIN. PROTECT DURING CONSTRUCTION. SEE ELECTRICAL AND MECHANICAL DRAWINGS FOR MORE INFORMATION.
- EXISTING DOORS TO REMAIN. PROTECT DURING CONSTRUCTION.
- NOT USED.
- EXISTING CABINET, COUNTERTOP, PLUMBING FIXTURE, ETC. TO REMAIN. PROTECT DURING CONSTRUCTION.
- EXISTING 4" DIA. HOLE ON FLOOR TO REMAIN AND RE-USED FOR THE NEW CATH LAB EQUIPMENT BY SIEMENS. THIS IS IDENTIFIED AS THE ORIENTATION POINT FOR THE PATIENT TABLE. FIELD VERIFY TO ESTABLISH ACTUAL LOCATION AND EXISTING CONDITIONS. SEE STRUCTURAL DRAWINGS FOR DETAILS ON ANCHORAGE. ALL EXPOSED STEEL TO BE SPRAY APPLIED FIRE PROOFED TO RETAIN FIRE RATINGS OF THE ADJACENT EXISTING AFTER ALL WORK IS COMPLETED.
- EXISTING FLOORING TO REMAIN. PROTECT DURING CONSTRUCTION.
- EXISTING 4" DIA. HOLE & CONDUIT TO REMAIN AND CONTINUE TO FUNCTION WITH THE NEW EQUIPMENT REPLACED BY SIEMENS, IDENTIFIED AS "B10" ON SIEMENS PLANS. FIELD VERIFY EXACT LOCATION.
- EXISTING CEILING, LIGHTING, MECHANICAL DIFFUSER ETC TO REMAIN. PROTECT DURING CONSTRUCTION.
- DASHED LINES INDICATE CATH LAB EQUIPMENT ANCHOR PLATES TO BE INSTALLED UNDER THE FLOOR DECK ABOVE THE CEILING. FIELD VERIFY EXISTING CONDITIONS BEFORE PROCEEDING WITH THE WORK. RELOCATE AND/OR RE-ROUTE EXISTING HVAC DUCT DIFFUSER, PLUMBING PIPING, ELECTRICAL ETC. AS REQUIRED TO COMPLETE THE WORK. NOTE THAT REMOVAL OF THE EXISTING ANCHOR THROUGH BOLT AND INSTALLATION OF NEW ANCHORS THROUGH BOLT IS RESPONSIBILITY OF THE GENERAL CONTRACTOR. COORDINATE WITH OWNERS VENDOR SIEMENS FOR MORE INFORMATION.
- NOT USED.
- EXISTING WALL TO REMAIN. PROTECT DURING CONSTRUCTION. REPAINT WALL AS REQUIRED TO ORIGINAL CONDITION AFTER ABOVE CEILING WORK IS COMPLETED.



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Intermountain Healthcare
IMC- Cath Lab 1 Remodel Project

NJRA Project # 20229
Construction Documents December 15, 2021

5121 South Cottonwood Street
Murray, UT 84107

Demolition Plan-
Lower Level 1

A100



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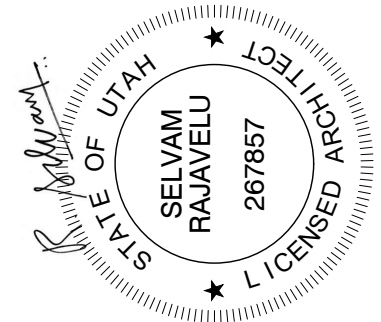
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Intermountain Healthcare
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NJRA Project # 20229
Construction Documents December 15, 2021

Demolition Floor
and Ceiling Plan -
Level 1

A101

32. EXISTING CEILING MOUNTED SURGICAL LIGHT AND BOOM TO PROTECT DURING CONSTRUCTION. REMOVE AND REINSTALL IF NEEDED TO COMPLETE WORK AROUND IT.
33. REMOVE CEILING RAIL TRACK SYSTEM ATTACHED TO THE UNISTRUT SYSTEM ALONG WITH THE SURGICAL LIGHT BOOM, RF SHIELDING, MONITOR BOOM AND BRACKETS ETC. SHOWN DASHED. ALSO REMOVE THE ELECTRICAL AND DATA CONNECTIONS AND STRUCTURAL SUPPORT AND ANCHORAGE TO THESE EQUIPMENT. COORDINATE WITH THE OWNER BEFORE PROCEEDING AND PREPARE THE AREA FOR THE NEW BOOMS CALLED OUT IN THE DRAWINGS.
34. REMOVE EXISTING END BASE CABINET AT THIS LOCATION AND REPLACE WITH NEW DRAWER CABINET. SEE FLOOR PLAN FOR MORE INFORMATION.
29. EXISTING DATA RACK. PROVIDE REQUIRED ELECTRICAL & DATA CONNECTION AS SHOWN IN THE ELECTRICAL DRAWINGS. COORDINATE & EXACT LOCATION WITH THE OWNER AND ALL VENDORS INVOLVED BEFORE PROCEEDING.
30. REMOVE EXISTING SINK, ASSOCIATED PLUMBING PIPING AND SINK PLASTIC LAMINATE BASE CABINET HERE. SEE PLUMBING DRAWINGS FOR MORE INFORMATION. SEE NEW FLOOR PLAN FOR NEW DRAWER CABINET REQUIRED AT THIS LOCATION.
31. REMOVE EXISTING PLASTIC LAMINATE COUNTERTOP AND REPLACE WITH NEW SOLID SURFACE COUNTERTOP. SEE NEW FLOOR PLAN. PROTECT AND REUSED PLASTIC LAMINATE BASE CABINET. U.N.O.

KEY NOTES - FLOOR PLAN

- REMOVE EXISTING GYPSUM BOARD CEILING. CAREFULLY REMOVE AND STORE HVAC DIFFUSERS AND LIGHTS SHOWN DASHED FOR REINSTALLATION. SEE NEW FLOOR PLANS, STRUCTURAL MECHANICAL, ELECTRICAL DRAWINGS FOR MORE INFORMATION.
- DASHED LINE INDICATES EXTENT OF DEMOLITION OF THE EXISTING GYPSUM BOARD CEILING. SEE REFLECTED CEILING PLAN A131 FOR NEW CEILING TO BE INSTALLED AFTER STRUCTURAL, MECHANICAL AND ELECTRICAL WORK IS COMPLETED ABOVE CEILING.
- EXISTING MEDGAS COLUMN TO REMAIN ALONG WITH ASSOCIATED STRUCTURAL SUPPORTS ABOVE. SEE MECHANICAL AND PLUMBING DRAWINGS FOR EXISTING GAS LINES. COORDINATE WITH OWNER'S VENDOR SKYTRON FOR MORE INFORMATION.
- PATCH, REPAIR AND PAINT CEILING FOR ABOVE CEILING WORK IN THIS AREA AFTER ALL WORK IS COMPLETE. REMOVE AND REINSTALL MECHANICAL DIFFUSERS AND LIGHTS IF REQUIRED. SEE ELECTRICAL AND MECHANICAL DRAWINGS FOR MORE INFORMATION.
- EXISTING GYPSUM BOARD SOFFIT AND WALL SCONCES AT SOFFIT TO REMAIN. PROTECT DURING CONSTRUCTION. REPLACE TO MATCH EXISTING IF DAMAGED DURING CONSTRUCTION. REPAINT ENTIRE SOFFIT. SEE ELECTRICAL DRAWINGS FOR MORE INFORMATION.
- EXISTING LEAD LINED DOORS & HARDWARE TO REMAIN. PROTECT DURING CONSTRUCTION.
- REMOVE EXISTING SHEET VINYL FLOORING & COVED BASE. DASHED LINE INDICATES EXTENT OF REMOVAL. SEE FINISH FLOOR PLAN A151 FOR MORE INFORMATION ON NEW FINISHES.
- REMOVE EXISTING ACOUSTICAL CEILING TILES, GRID SYSTEM, LIGHTS, DIFFUSERS ETC. AS REQUIRED FOR ALL ABOVE CEILING W/E/P WORK. SEE ELECTRICAL AND MECHANICAL DRAWINGS FOR MORE INFORMATION. CLEAN AND RE-INSTALL CEILING TILES, LIGHTS & DIFFUSERS BACK AFTER WORK IS COMPLETED. SEE REFLECTED CEILING PLAN ON SHEET A131 AND ELECTRICAL DRAWINGS.
- CAREFULLY REMOVE EXISTING MED GAS PEDESTAL FOR RE-INSTALLATION. CLEAN INTERIORS AND RE-INSTALL AFTER ALL FLOORING WORK IS COMPLETE. SEE ELECTRICAL AND MECHANICAL DRAWINGS FOR MORE INFORMATION.
- EPO (EMERGENCY POWER OFF) SWITCH. SEE ELECTRICAL DRAWINGS FOR MORE INFO.
- EXISTING CABINET, COUNTERTOP, PLUMBING FIXTURE, ETC. TO REMAIN. PROTECT DURING CONSTRUCTION.
- ELECTRICAL PANELS. SEE ELECTRICAL DRAWINGS FOR MORE INFORMATION.
- EXISTING WALL MOUNTED MECHANICAL GRILL TO REMAIN. PROTECT DURING CONSTRUCTION.
- EXISTING LEAD SHIELDED GLASS TO REMAIN. PROTECT DURING CONSTRUCTION.
- EXISTING 4" DIA. HOLE ON FLOOR TO REMAIN AND RE-USED FOR THE NEW CATH LAB EQUIPMENT BY SIEMENS. THIS IS IDENTIFIED AS THE ORIENTATION POINT FOR THE PATIENT TABLE. FIELD VERIFY TO ESTABLISH ACTUAL LOCATION AND EXISTING CONDITIONS. EXISTING TABLE BASE PLATE TO BE REMOVED TO INSTALL NEW FLOORING. NEW PLATE TO BE THROUGH-BOLTED THROUGH CONCRETE FLOOR. SEE SHEET A100 FOR LOWER LEVEL CONDITION AND ALSO SEE STRUCTURAL DRAWINGS FOR THROUGH BOLTING. REMOVE EXISTING BOLTS FROM THE FLOOR.
- EXISTING SHEET VINYL FLOORING AND COVED BASE TO REMAIN. PROTECT DURING CONSTRUCTION. SEE FINISH FLOOR PLAN.
- REMOVE EXISTING PLASTIC LAMINATE COUNTERTOP. REPLACE WITH NEW COUNTERTOP AS INDICATED IN THE NEW FLOOR PLAN. SUPPORTS AND BRACKETS SHALL BE RE-USED. PROVIDE TWO ADDITIONAL METAL SUPPORT LEGS UNDER THE COUNTERTOP. BASIS OF DESIGN: COUNTER 34-BRUSHED STEEL SET-NO-CUT.
- EXISTING 4" DIA. HOLE AND CONDUIT ON FLOOR TO REMAIN AND RE-USED FOR THE NEW CATH LAB EQUIPMENT. THIS IS IDENTIFIED AS HOLE "B10" ON SIEMENS PLANS. FIELD VERIFY TO ESTABLISH ACTUAL LOCATION AND EXISTING CONDITIONS.
- DASHED LINE INDICATES FLOOR TO CEILING TEMPORARY DUST PROOF CONSTRUCTION BARRIER TO PREVENT DUST & DIRT MIGRATION AND TO SEPARATE AREAS OCCUPIED BY OWNER FROM FUMES AND NOISE. CONSTRUCTION BARRIER TO BE ERECTED WITH 1 5/8" 20 GA. MTL. STUDS @16" O.C. FRAMING WITH 5/8" TYPE "X" ABUSE RESISTANT GYPSUM BOARD ON BOTH SIDES. TAPE AND SEAL ALL JOINTS AND OPENINGS. SEAL JOINTS AT PERIMETER. PARTITION TO BE EQUIPPED WITH 4'-0" LOCKABLE MAN DOOR WITH STICKY MATS ON BOTH SIDES OF DOOR. COORDINATE WITH OWNER AND FIELD VERIFY FOR EXACT LOCATION OF CONSTRUCTION BARRIER.
- EXISTING VCT FLOORING AND WALL BASE TO REMAIN. PROTECT DURING CONSTRUCTION. PATCH AND REPAIR FLOORING AS REQUIRED IN ORDER TO ACCOMPLISH THE WORK OUTLINED IN THE CONSTRUCTION DOCUMENTS.
- REMOVE EXISTING SINK AND REPLACE WITH NEW SOLID SURFACE INTEGRAL SINK. REUSE ALL PLUMBING CONNECTIONS. SEE PLUMBING DRAWINGS AND FLOOR PLAN.
- EXISTING SIEMENS EQUIPMENT & CABINET FOR ADJACENT CATH LAB #2 SHALL REMAIN. PROTECT DURING CONSTRUCTION.
- REMOVE UPPER APRON RACK AS REQUIRED AND PREP WALL FOR NEW LOCATION OF SKYTRON LIGHTING CONTROL PANEL. PATCH AND REPAIR LEAD SHIELDED WALL TO MAINTAIN SHIELDING.
- EXISTING SIEMENS CATH LAB EQUIPMENT AND PATIENT TABLE TO BE REMOVED BY OWNERS VENDOR SIEMENS. SCHEDULE WORK WITH OWNER'S VENDOR SIEMENS.
- EXISTING CEILING MOUNTED UNISTRUTS TO REMAIN. PROTECT DURING CONSTRUCTION. NOTIFY STRUCTURAL ENGINEER FOR EXAMINATION AFTER REMOVAL OF GYP. BD. CEILING BEFORE PROCEEDING WITH NEW WORK.
- EXISTING MED GAS SHUT OFF VALVE TO REMAIN. SEE MECHANICAL DRAWINGS FOR MORE INFO.
- REMOVE UNISTRUTS SHOWN DASHED AND ASSOCIATED STRUCTURAL SUPPORT FROM CEILING. MAINTAIN STRUCTURAL INTEGRITY OF THE UNISTRUT PORTION THAT IS STAYING. CONTACT STRUCTURAL ENGINEER FOR EVALUATION BEFORE PROCEEDING WITH THE WORK. REPLACE REPAIR GYPSUM CEILING AS REQUIRED TO MATCH ADJACENT AFTER DEMOLITION WORK IS COMPLETED.
- CAREFULLY REMOVE EXISTING CEILING MOUNTED CAMERA FOR REINSTALLATION AT THE SAME LOCATION AFTER ALL CEILING WORK IS COMPLETE.

CE.4

CF



1 Demolition Floor Plan
SCALE: 1/2" = 1'-0"

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GENERAL NOTES

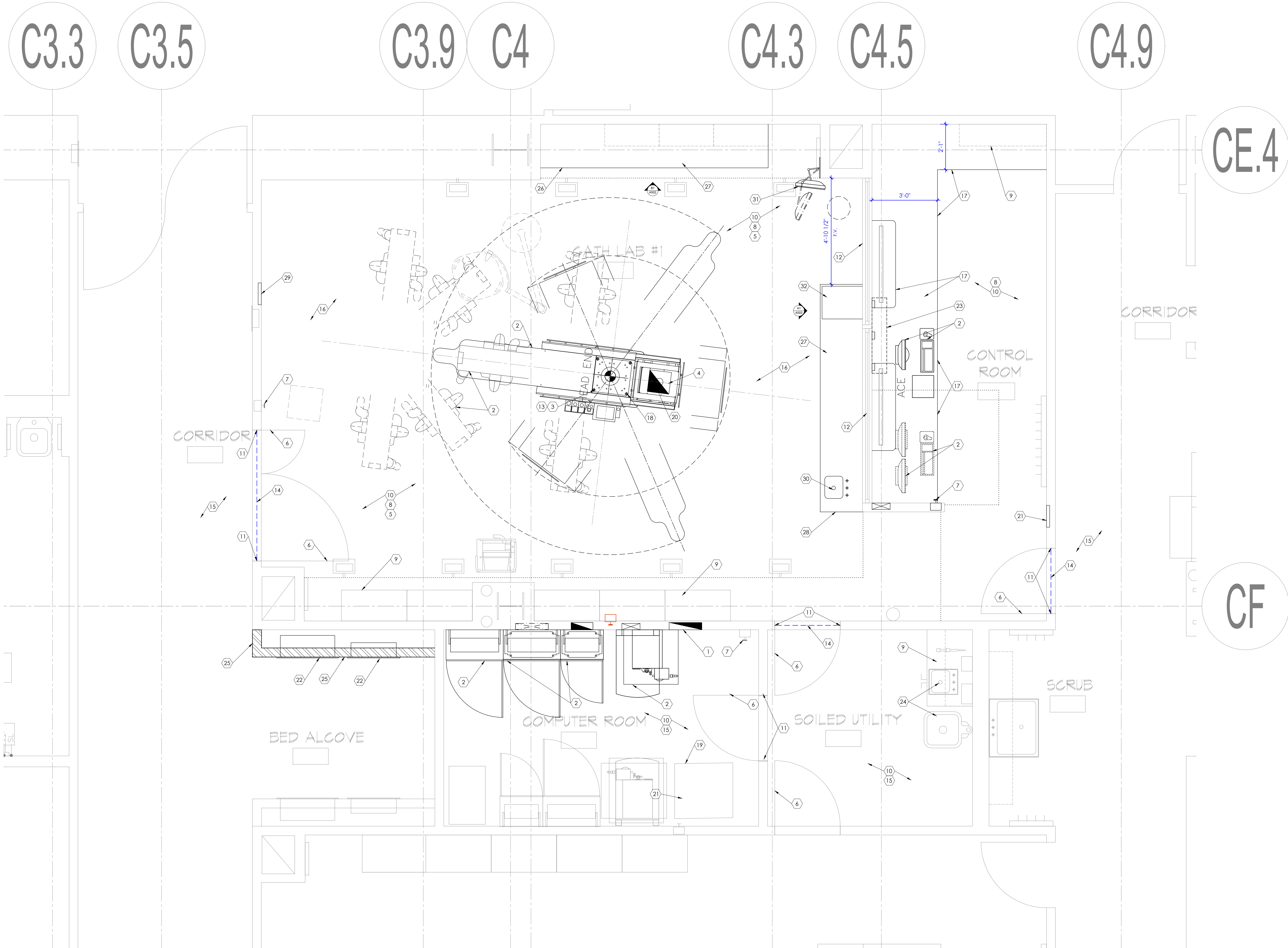
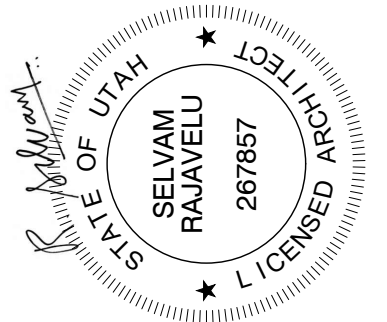
- COORDINATE WITH SIEMENS REPRESENTATIVE TO ENSURE REQUIRED CEILING HEIGHT OF 8'-11" IS ACHIEVED FROM FINISHED FLOOR TO THE FACE OF THE UNISTRUT INSTALLED AT THE CEILING. SEE SIEMENS EQUIPMENT DRAWINGS FOR ACCEPTABLE FLOOR SLOPE TOLERANCES AND FOR MORE INFORMATION. FIELD VERIFY AND COORDINATE WORK BEFORE PROCEEDING.
- ALL EXPOSED STEEL IN THE WALLS, ABOVE CEILING ETC., ARE REQUIRED TO BE SPRAY APPLIED FIRE PROOFED. SEE CODE COMPLIANCE PLANS FOR FIRE RATINGS THAT IS REQUIRED TO BE MAINTAINED THROUGHOUT THE PROJECT. ANY DAMAGE TO THE EXISTING FIRE PROOFING IS REQUIRED TO BE PATCHED AND REPAIRED WITH COMPATIBLE FIRE PROOFING PRODUCT.
- ALL EXISTING MAGNETIC AND LEAD SHIELDING IN THE EXISTING WALLS, FLOOR AND ROOF DECK IS REQUIRED TO BE RETAINED. REPLACE TO MAINTAIN SHIELDING WITH EQUIVALENT SHIELDING TO MATCH ORIGINAL CONDITIONS, IF DAMAGED DURING CONSTRUCTION.

- NEW PLASTIC LAMINATE BASE CABINET TO REPLACE EXISTING UNDER COUNTER CABINET. CABINET SHALL MATCH ADJACENT EXISTING. SEE INTERIOR ELEVATIONS AND DETAILS ON SHEET A502. PROVIDE REQUIRED WALL BACKING. PATCH AND REPAIR EXISTING LEAD LINED WALLS TO ORIGINAL CONDITION AFTER ALL WORK IS COMPLETED TO RETAIN SHIELDING.

- PROVIDE MATCHING PLASTIC LAMINATE FINISH END PANEL HERE AFTER REMOVAL OF A PORTION OF THE BASE CABINET HERE. FIELD VERIFY TO MATCH WITH ADJACENT EXISTING.
- REMOTE ISOLATION PANEL ANNUNCIATOR. SEE ELECTRICAL DRAWINGS FOR MORE INFORMATION.
- REPLACE EXISTING STAINLESS STEEL SINK WITH NEW SOLID SURFACE INTEGRAL SINK. RECONNECT EXISTING PLUMBING LINES TO NEW SINK. SEE PLUMBING DRAWINGS FOR MORE INFORMATION.
- COMPUTER AND MONITOR ON WALL MOUNTED ERGOTRON SYSTEM. OWNER FURNISHED CONTRACTOR INSTALLED. PROVIDE WALL BACKING OR ATTACHED DIRECTLY TO EXISTING WALL STUD FRAMING IN THE LEAD SHIELDED WALL. PATCH, REPAIR, PAINT AND RE-FINISH WALL TO ORIGINAL CONDITION. SEE ELECTRICAL DRAWINGS FOR POWER AND DATA REQUIREMENTS.

KEY NOTES - FLOOR PLAN

- ELECTRICAL PANEL. SEE ELECTRICAL DRAWINGS FOR MORE INFORMATION.
- NEW CATHLAB EQUIPMENT & PATIENT TABLE. PROVIDED & INSTALLED BY OWNERS' VENDOR SIEMENS. SEE VENDOR DRAWINGS FOR MORE INFORMATION.
- ISO-CENTER LOCATION OF THE CATH-LAB EQUIPMENT. FIELD VERIFY AND COORDINATE WITH OWNER'S VENDOR (SIEMENS) FOR MORE INFORMATION.
- CAREFULLY REMOVE EXISTING STAINLESS STEEL MED GAS PEDESTAL FOR REINSTALLATION AFTER FLOORING IS COMPLETE. SEE ELECTRICAL AND MECHANICAL DRAWINGS FOR MORE INFORMATION.
- REPLACE ALL EXISTING DUPLEX EMERGENCY POWER OUTLETS TO FOUR PLEX ON THE WALLS. SEE ELECTRICAL DRAWINGS FOR MORE INFORMATION. NOTE THAT ALL EXISTING WALLS HAVE 4 LB LEAD SHIELDING UP TO 7'-0" HIGH. INTEGRATION OF ALL SHIELDING SHALL NEED TO BE RETAINED AND REPAIRED TO ORIGINAL CONDITION AFTER ALL WORK IS COMPLETED. TYPICAL THROUGHOUT THE PROJECT.
- EXISTING LEAD LINED DOORS, FRAME & HARDWARE. PROTECT DURING CONSTRUCTION.
- EMERGENCY POWER OFF SWITCH. SEE ELECTRICAL DRAWINGS FOR MORE INFORMATION.
- NEW SHEET VINYL FLOORING WITH 4" COVED BASE. COORDINATE WITH OWNERS' VENDOR SIEMENS REGARDING ACCEPTABLE SLOPE TOLERANCES ON THE FLOOR BEFORE PROCEEDING WITH THE WORK. SEE FINISH FLOOR PLANS AND SIEMENS DRAWINGS FOR MORE INFORMATION. COVED BASE SHALL FULLY ADHERE TO WALL.
- EXISTING CABINETS, COUNTERTOP, PLUMBING FIXTURES, ETC., TO REMAIN. PROTECT DURING CONSTRUCTION.
- REFINISH AND PAINT EXISTING GYPSUM BOARD WALL. SEE FINISH FLOOR PLAN FOR MORE INFORMATION.
- REPAINT EXISTING H.M. DOOR FRAME, TYP. SEE FINISH FLOOR PLAN.
- EXISTING LEAD SHIELDED WINDOW & GLAZING TO REMAIN. PROTECT DURING CONSTRUCTION.
- ORIENTATION POINT OF THE PATIENT TABLE SHALL ALIGN WITH THE EXISTING 4" DIA. HOLE ON THE FLOOR AT THIS LOCATION. FIELD VERIFY EXACT LOCATION AND COORDINATE WITH OWNERS' VENDOR (SIEMENS) FOR MORE INFORMATION.
- DASHED LINE SHOWS EXTENT OF NEW FLOORING. SEE FINISH FLOOR PLAN FOR MORE INFORMATION.
- EXISTING FLOOR FINISH TO REMAIN AT THIS LOCATION. PROTECT DURING CONSTRUCTION.
- VERIFY FLOOR LEVELNESS. FLOOR SHOULD BE $\pm 1/8"$ IN 10'-0" THROUGH THE ROOM. IF FLOOR IS UNEVEN, POUR SELF-LEVELING EPOXY COMPOUND (ARDEX OR EQUAL) TO ACHIEVE THE REQUIRED FLOOR LEVELNESS. UNISTRUTS FOR SIEMENS EQUIPMENT RAILS SHALL BE INSTALLED AFTER FLOOR IS LEVELED. MEASURE HEIGHT TO THE BOTTOM OF THE UNISTRUTS ABOVE FINISHED FLOOR PER SIEMENS DRAWINGS. PREP FLOOR FOR NEW FINISHES. SEE SIEMENS DRAWINGS FOR ACCEPTABLE TOLERANCE LEVEL.
- NEW PLASTIC LAMINATE COUNTERTOP WITH BULL-NOSED EDGE. SEE DETAIL A6/A-501 AND FINISH FLOOR PLAN FOR LAMINATE COLOR REQUIRED TO MATCH ADJACENT EXISTING & MORE INFORMATION. HEIGHT OF COUNTERTOP SHALL MATCH WITH THE ADJACENT EXISTING. PROVIDE 4'-0" W X 1'-1" D OPENING IN COUNTERTOP FOR INSTALLATION OF LARGE DISPLAY MONITOR BY OWNER. PROVIDE 2" RADIUS AT ALL INSIDE CORNERS. EXISTING SUPPORTS AND METAL BRACKETS MAY BE RE-USED. THE MONITOR OPENINGS ON THE COUNTERTOP MAY REQUIRE EXISTING BRACKETS TO BE MOVED OR ADJUSTED. PROVIDE BACKING IN THE WALL FOR INSTALLATION OF THE OWNER PROVIDED MONITOR. FIELD VERIFY EXISTING CONDITIONS BEFORE PROCEEDING WITH THE WORK. INSTALL TWO ADJUSTABLE HEIGHT STEEL LEGS FOR SUPPORT OF DEEP COUNTERTOP. DO NOT ANCHOR TO FLOOR. BASIS OF DESIGN: COUNTER 34- BRUSHED STEEL SET-NO-CUT.
- SIEMENS EQUIPMENT BASE PLATES TO BE ANCHORED TO THE EXISTING CONCRETE FLOOR. SEE SHEET A100 FOR REMOVAL OF CEILING AT LOWER LEVEL FOR INSTALLATION OF THE METAL PLATES. SEE STRUCTURAL & SIEMENS DRAWINGS FOR MORE INFORMATION.
- EXISTING DATA RACK. PROVIDE REQUIRED ELECTRICAL & DATA CONNECTION AS SHOWN IN THE ELECTRICAL DRAWINGS. COORDINATE WORK & EXACT LOCATION WITH THE OWNER AND ALL VENDORS INVOLVED BEFORE PROCEEDING.
- RE-USE EXISTING 4" DIA. HOLE AND CONDUIT AS REQUIRED. THIS IS IDENTIFIED AS HOLE "B10" IN SIEMENS DRAWINGS.
- SKYTRON LIGHTING CONTROL PANEL. SEE DRAWINGS FROM SKYTRON AND ALSO SEE ELECTRICAL DRAWINGS. CONTROL PANEL TO BE WRAPPED IN LEAD TO MAINTAIN INTEGRITY OF SHIELDING.
- NEW ISOLATION PANEL INSTALLED IN THE BOXED STUD FRAMED WALL. SEE ELECTRICAL DRAWINGS FOR MORE INFORMATION. INSTALL NEW REMOTE ISOLATION ANNUNCIATOR IN THE LAB.
- SIEMENS CATH LAB EQUIPMENT INSTALLED UNDER COUNTER. ADJUST LOCATION OF THE COUNTERTOP BRACKET AS REQUIRED TO MAKE ROOM FOR THE EQUIPMENT. COORDINATE WORK WITH LARGE DISPLAY PROVIDED BY OWNER.
- EXISTING PLUMBING FIXTURE. SINK TO REMAIN. PROTECT DURING CONSTRUCTION. PROVIDE LOCK AT THE CABINETS UNDER THE SINK.
- 3 $\frac{5}{8}$ " THICK METAL STUD FRAMED WALL WITH $\frac{5}{8}$ " THICK TYPE-X PAINTED GYPSUM SHEATHING ON ONE SIDE FROM FLOOR TO CEILING ABOVE TO HOUSE NEW ISOLATION PANELS. COORDINATE DEPTH OF BOXED WALL WITH PANELS. PAINT AND FINISH WALL TO MATCH WITH ADJACENT EXISTING HALLWAY. PROVIDE WALL PROTECTION AND CORNER GUARD TO MATCH ADJACENT EXISTING.
- NEW PLASTIC LAMINATE BASE CABINETS TO REPLACE EXISTING UNDER SINK CABINET. CABINET SHALL MATCH ADJACENT EXISTING. SEE INTERIOR ELEVATIONS AND DETAILS ON SHEET A502. PROVIDE REQUIRED WALL BACKING. PATCH AND REPAIR EXISTING LEAD LINED WALLS TO ORIGINAL CONDITION AFTER ALL WORK IS COMPLETED TO RETAIN SHIELDING. MEET ALL REQUIREMENTS SET BY THE AUTHORITIES HAVING JURISDICTION FOR DISPOSAL AND WORKING WITH LEAD SHIELDED WALLS WHERE NEEDED.
- REPLACE EXISTING PLASTIC LAMINATE COUNTERTOP WITH NEW SOLID SURFACE COUNTERTOP. THE PLASTIC LAMINATE BASE CABINET SHALL REMAIN, UNLESS NOTED OTHERWISE. PROTECT DURING CONSTRUCTION. FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS.



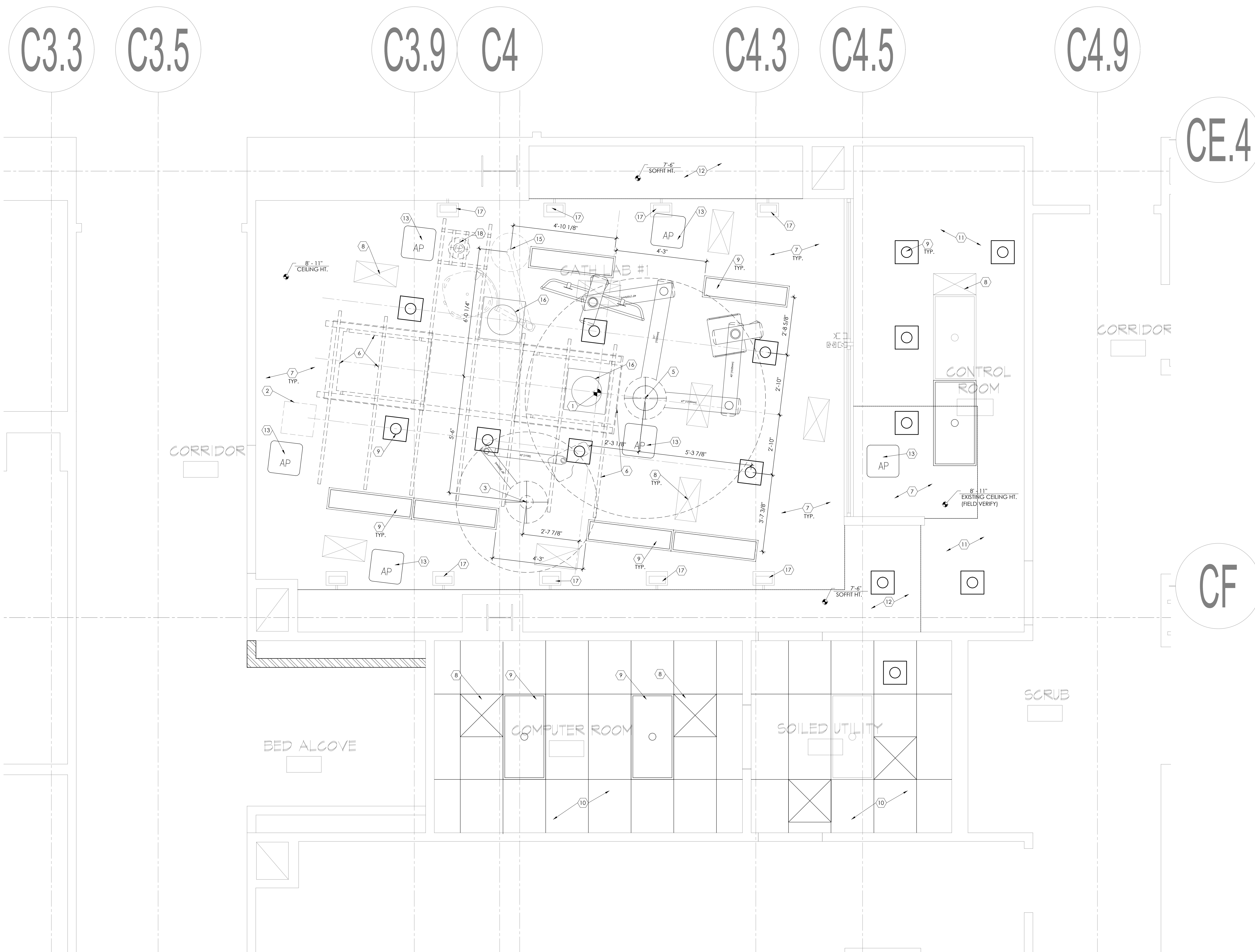
1 Floor Plan- Level 1
SCALE: 1/2" = 1'-0"

KEY NOTES - FLOOR PLAN

1. LOCATION OF THE CATH LAB EQUIPMENT ISO-CENTER, COORDINATE WITH THE OWNER'S VENDOR SIEMENS FOR MORE INFORMATION.
2. EXISTING MEDGAS COLUMN AND GAS, POWER CONNECTIONS, ETC. AT THIS LOCATION TO REMAIN. PROTECT DURING CONSTRUCTION.
3. NEW SKYTRON BOOM FOR RADIATION SHIELD. SEE STRUCTURAL & ELECTRICAL DRAWINGS FOR ALL REQUIREMENTS.
4. NOT USED.
5. NEW SKYTRON DISPLAY MONITOR AND EQUIPMENT TANDEM BOOM. SEE STRUCTURAL, ELECTRICAL AND SKYTRON DRAWINGS FOR ALL REQUIREMENTS. COORDINATE WITH SKYTRON FOR MORE INFORMATION.
6. EXISTING UNISTRUT SUPPORT FOR SIEMENS CATHLAB EQUIPMENT AT THE CEILING ANCHORED TO THE STRUCTURE ABOVE TO REMAIN. UN.I.O. TYP. REMOVE PORTION OF UNISTRUT WHERE INDICATED ON DEMOLITION PLAN A101. SEE SIEMENS DRAWINGS & STRUCTURAL DRAWINGS FOR DETAILS AND REQUIREMENTS. ALSO REFER TO DETAIL **C5/A-501**.
7. NEW PAINTED GYPSUM BOARD CEILING. INSTALL AFTER ALL STRUCTURAL, MECHANICAL, ELECTRICAL, SKYTRON BOOMS AND SIEMENS EQUIPMENT WORK IS COMPLETE. SEE FINISH FLOOR PLAN FOR PAINT COLOR. ALSO REFER TO CEILING DETAIL **E3/A-501**. CEILING HEIGHT FROM FLOOR TO THE FACE OF THE CEILING MOUNTED UNISTRUT SUPPORT IS REQUIRED TO BE 8'-11". FIELD VERIFY EXISTING AND SEE SIEMENS DRAWINGS FOR ACCEPTABLE TOLERANCES.
8. NEW OR RE-USED MECHANICAL DIFFUSER. SEE MECHANICAL DRAWINGS FOR MORE INFORMATION, TYPICAL.
9. NEW OR RE-USED CEILING LIGHTS. SEE ELECTRICAL DRAWINGS FOR MORE INFORMATION, TYPICAL.
10. REMOVE & RE-INSTALL EXISTING ACOUSTICAL PANEL CEILING, GRID SYSTEM, CEILING DIFFUSER & LIGHTS AS REQUIRED FOR ANY ABOVE CEILING M/E/P WORK. SEE ELECTRICAL, MECHANICAL AND PLUMBING DRAWINGS FOR MORE INFORMATION.
11. PATCH/REPAIR EXISTING GYPSUM BOARD CEILING AFTER ALL ABOVE CEILING WORK IS COMPLETE. CLEAN AND RE-INSTALL LIGHTS AND DIFFUSERS. RE-PAINT ENTIRE CEILING. SEE FINISH FLOOR PLANS.
12. EXISTING GYPSUM BOARD SOFFIT TO REMAIN. PROTECT DURING CONSTRUCTION. REMOVE & RE-INSTALL LIGHT, DIFFUSER ETC. AS REQUIRED. REPAINT SOFFIT AND CEILING AFTER WORK IS COMPLETED. SEE FINISH FLOOR PLANS.
13. 18" x 18" GASKETED CEILING MOUNTED FINISHED & PAINTED GFRG ACCESS PANELS TO MATCH HOSPITAL STANDARD. COORDINATE WITH VENDORS, MECHANICAL DRAWINGS FOR EXACT LOCATION & QUANTITY AS REQUIRED BEFORE INSTALLATION. ACCESS PANEL TO SIT FLUSH WITH THE ADJACENT CEILING.
14. NOT USED.
15. EXISTING SURGICAL LIGHT AND BOOM TO REMAIN. PROTECT DURING CONSTRUCTION. REMOVE AND RE-INSTALL IF REQUIRED TO ACCOMPLISH CEILING AND OTHER WORK ABOVE. COORDINATE AND FIELD VERIFY EXACT LOCATION
16. REMOVE & RE-INSTALL EXISTING SKYTRON SURGICAL LIGHTS AS REQUIRED. SEE ELECTRICAL DRAWINGS AND MANUFACTURERS MANUAL FOR MORE INFORMATION.
17. EXISTING WALL SCONCE TO REMAIN. PROTECT DURING CONSTRUCTION.
18. CABLE OUTLET FOR C-ARM AND ASSOCIATED STRUCTURE ABOVE TO REMAIN. PROTECT DURING CONSTRUCTION. COORDINATE WITH SIEMENS.

GENERAL NOTES

1. COORDINATE WITH SIEMENS REPRESENTATIVE TO ENSURE REQUIRED CEILING HEIGHT OF 8'-11" IS ACHIEVED FROM FINISHED FLOOR TO THE FACE OF THE UNISTRUT INSTALLED AT THE CEILING. SEE SIEMENS EQUIPMENT DRAWINGS FOR ACCEPTABLE FLOOR SLOPE TOLERANCES AND FOR MORE INFORMATION. FIELD VERIFY AND COORDINATE WORK BEFORE PROCEEDING.
2. ALL EXPOSED STEEL IN THE WALLS, ABOVE CEILING ETC. ARE REQUIRED TO BE SPRAY APPLIED FIRE PROOFED. SEE CODE COMPLIANCE PLANS FOR FIRE RATINGS THAT IS REQUIRED TO BE MAINTAINED THROUGHOUT THE PROJECT. ANY DAMAGE TO THE EXISTING FIRE PROOFING IS REQUIRED TO BE PATCHED AND REPAIRED WITH COMPATIBLE FIRE PROOFING PRODUCT.
3. ALL EXISTING MAGNETIC AND LEAD SHIELDING IN THE EXISTING WALLS, FLOOR AND ROOF DECK IS REQUIRED TO BE RETAINED. REPLACE TO MAINTAIN SHIELDING WITH EQUIVALENT SHIELDING TO MATCH ORIGINAL CONDITIONS. IF DAMAGED DURING CONSTRUCTION.

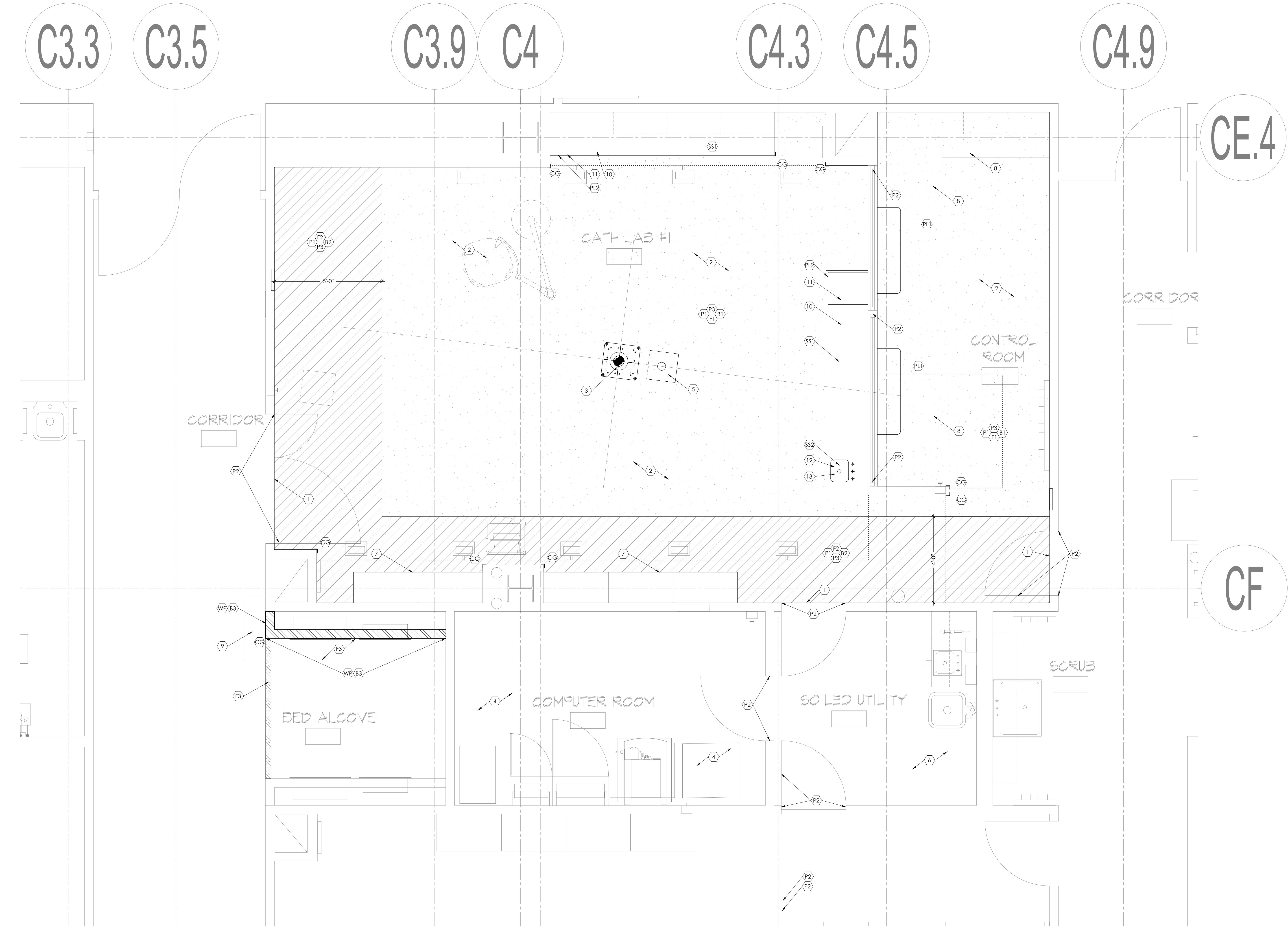


1 Reflected Ceiling Plan
SCALE: 1/2" = 1'-0"



12/21/2021 10:25:20 AM - Z:\200 IHC\20229.00 IHC - IMC-CATH LAB #1\02 BIM - REVIT & AUTOCAD\02 AUTOCAD DWGS\A151 FINISH FLOOR PLAN-LEVEL 1.DWG

| FINISH LEGEND | | | | | | |
|------------------------|----------------------------------|------------------|-----------------------|----------|-----------------------|--|
| LEGEND | DESCRIPTION | MANUFACTURER | STYLE | MODEL # | COLOR | REMARKS |
| F1 - FLOOR FINISH | SHEET VINYL - FIELD | MANNINGTON | BIOPEC MD | 15361 | FLAX | |
| F2 - FLOOR FINISH | SHEET VINYL - ACCENT BORDER | MANNINGTON | BIOPEC MD | 15369 | BEDROCK | |
| F3 - FLOOR FINISH | SHEET VINYL - RED LINE | MANNINGTON | BIOPEC MD | 15392 | HOT SAUCE | |
| B1 - WALL BASE | SHEET VINYL- COVED BASE | MANNINGTON | BIOPEC MD | 15361 | FLAX | PROVIDE ALUMINUM TOP TRIM |
| B2 - WALL BASE | SHEET VINYL- COVED BASE | MANNINGTON | BIOPEC MD | 15369 | BEDROCK | PROVIDE ALUMINUM TOP TRIM |
| B3 - WALL BASE | RUBBER BASE TO MATCH EXISTING | MANNINGTON | BIOPEC MD | 15369 | BEDROCK | FIELD VERIFY RUBBER BASE STYLE AND COLOR - MATCH ADJACENT EXISTING |
| P1 - PAINT | WALL PAINT | SHERWIN WILLIAMS | EGGSHELL | SW 7043 | WORLDLY GRAY | |
| P2 - PAINT | DOOR FRAME PAINT | SHERWIN WILLIAMS | SEMI-GLOSS | SW 4115 | TOTALLY TAN | |
| P3 - PAINT | GYPSUM CEILING PAINT | SHERWIN WILLIAMS | EGGSHELL | SW 7005 | PURE WHITE | TYPICAL AT ALL HM DOOR, FRAMES & WINDOWS- FIELD VERIFY TO MATCH EXISTING |
| CG - CORNER GUARD | CORNER GUARD 2" X 2" X 4'-0"H | C/S ACROVYN | 4000 | SSM-20AN | 262 DRIFTWOOD | WITH CONTINUOUS ALUMINUM RETAINER |
| WP- WALL PROTECTION | 4'-0" FV TO MATCH EXISTING | C/S ACROVYN | 4000 | SSM-20AN | FIELD VERIFY TO MATCH | MATCH WITH ADJACENT EXISTING AT THE HALLWAY. |
| PL1 - PLASTIC LAMINATE | PLASTIC LAMINATE COUNTERTOP | FORMICA | MATTE FINISH | 303-58 | ANTIQUE WHITE OXIDE | FIELD VERIFY LAMINATE STYLE AND COLOR - MATCH ADJACENT EXISTING |
| PL2 - PLASTIC LAMINATE | PLASTIC LAMINATE - VERTICAL FACE | FORMICA | FIELD VERIFY TO MATCH | | FIELD VERIFY TO MATCH | FIELD VERIFY LAMINATE STYLE AND COLOR - MATCH ADJACENT EXISTING |
| SS1 - SOLID SURFACE | SOLID SURFACE COUNTERTOP | CORIAN | | | WHITE JASMINE | |
| SS2 - SOLID SURFACE | SOLID SURFACE INTEGRAL SINK | STARON | | | BRIGHT WHITE BW010 | |



KEY NOTES - FLOOR PLAN

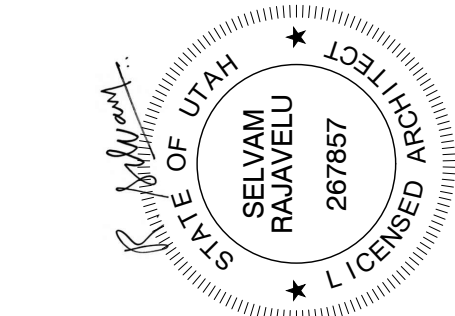
- LINE OF TRANSITION BETWEEN NEW AND EXISTING FLOOR FINISHES.
- EXISTING SHEET VINYL FLOORING TO BE REPLACED WITH NEW SHEET VINYL FLOORING. SEE NEW FLOOR PLAN, DEMOLITION PLAN AND FINISH LEGEND FOR MORE INFORMATION. EXISTING MAGNETIC SHIELDING IF ANY ON THE FLOOR IS REQUIRED TO BE PROTECTED DURING INSTALLATION. SEE FLOOR PLANS AND SIEMENS DRAWINGS FOR ACCEPTABLE FLOOR SLOPE TOLERANCES. FLOOR MAY NEED TO BE PREPARED TO MEET THE REQUIREMENTS OF THE NEW CATH LAB EQUIPMENT. FIELD VERIFY EXISTING CONDITIONS.
- NEW CATH LAB EQUIPMENT BASE PLATE THROUGH BOLTED THROUGH EXISTING CONCRETE FLOOR. SEE SIEMENS AND STRUCTURAL DRAWINGS FOR MORE INFORMATION. INSTALL PLATE AFTER ALL FLOORING UNDER PLATE IS COMPLETE.
- EXISTING VCT FLOORING & RESILIENT WALL BASE TO REMAIN IN THIS AREA. PROTECT DURING CONSTRUCTION.
- CAREFULLY REMOVE AND CLEAN EXISTING MEDGAS PEDESTAL. RE-INSTALL IN THE SAME LOCATION AFTER ALL FLOORING WORK IS COMPLETE. FLOORING TO BE TUCKED INSIDE THE MED GAS PEDESTAL.
- EXISTING SHEET VINYL FLOORING AND COVED WALL BASE TO REMAIN. PROTECT DURING CONSTRUCTION.
- EXISTING CABINET COUNTERTOP MILLWORK & PLASTIC LAMINATE FINISHES TO REMAIN. PROTECT DURING CONSTRUCTION.
- NEW COUNTERTOP TO REPLACE EXISTING IN THIS AREA. SEE FINISH LEGEND FOR THE PLASTIC LAMINATE AT THE COUNTERTOP TO MATCH ADJACENT EXISTING.
- PATCH EXISTING SHEET VINYL FLOORING WITH MATCHING SHEET VINYL WHERE NEW WALL IS CONSTRUCTED AT HALLWAY. PROVIDE NEW MATCHING WALL BASE ALONG THE NEW WALL.
- PROVIDE NEW SOLID SURFACE COUNTERTOP WITH 4" INTEGRAL BACKSPLASH ON EXISTING BASE CABINET. FIELD VERIFY EXISTING CONDITIONS. SEE INTERIOR ELEVATIONS ON SHEET A502 AND REFER TO DEMOLITION FLOOR PLAN NOTES.
- NEW PLASTIC LAMINATE, BASE CABINET. FIELD VERIFY TO MATCH LAMINATE FINISH WITH THE ADJACENT EXISTING. SEE INTERIOR ELEVATIONS AND DETAILS ON SHEET A502
- PROVIDE AND INSTALL NEW SOLID SURFACE INTEGRAL SINK. BASIS OF DESIGN: STARON SINK A1181. COLOR WHITE. RE-USE PLUMBING CONNECTIONS AND FAUCET AT THE NEW SINK. SEE PLUMBING DRAWINGS FOR MORE INFORMATION.
- PROVIDE NEW SOLID SURFACE REMOVABLE COVER WITH HANDLE FOR THE INTEGRAL SINK. COORDINATE COVER SIZE WITH THE SINK DIMENSIONS FOR PROPER FITTING.

LEGEND - FLOOR PATTERN

| | |
|--|------------------------------------|
| | (F1) - SHEET VINYL - FIELD COLOR |
| | (F2) - SHEET VINYL - ACCENT BORDER |
| | (F3) - SHEET VINYL - RED LINE |

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Intermountain Healthcare
IMC- Cath Lab 1 Remodel Project

NJRA Project # 20229
Construction Documents December 15, 2021

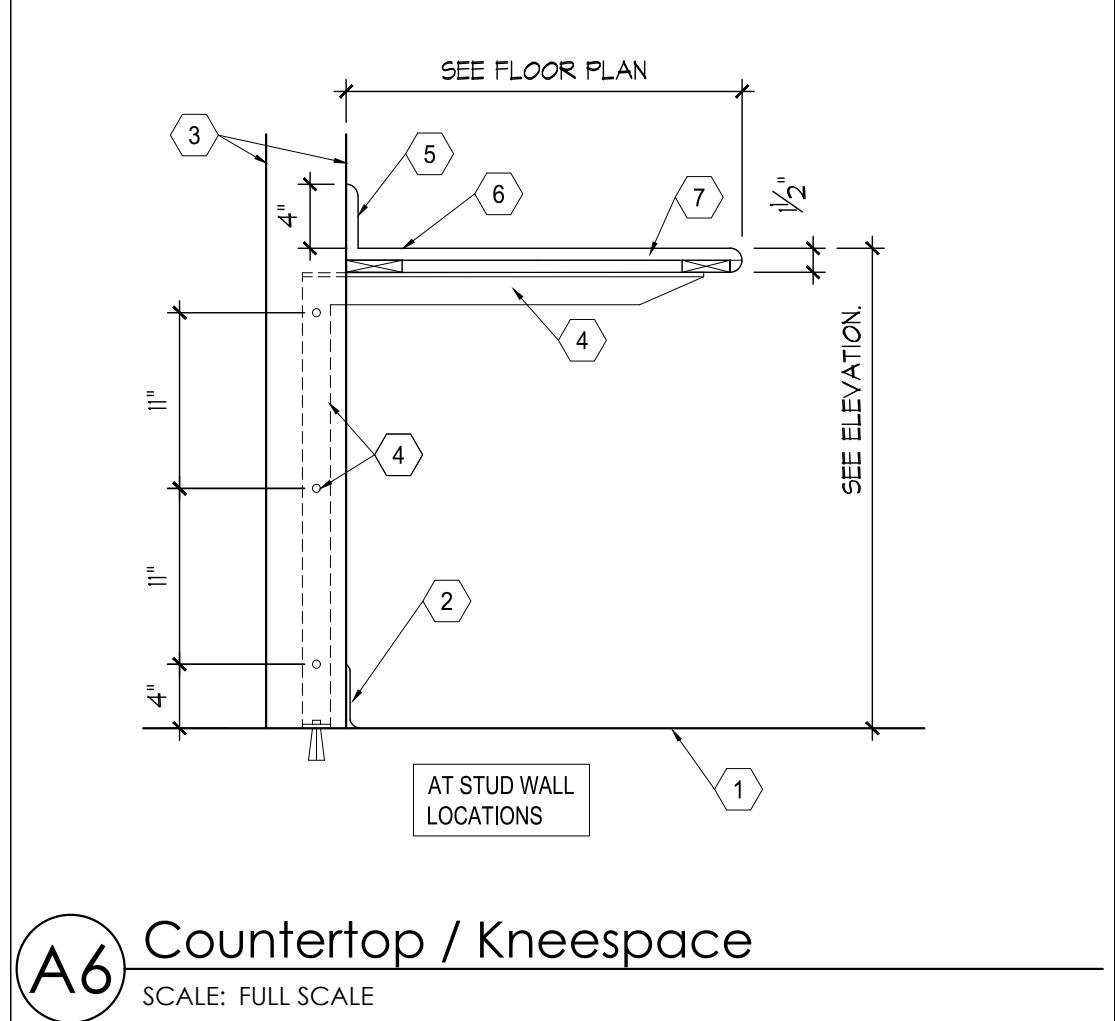
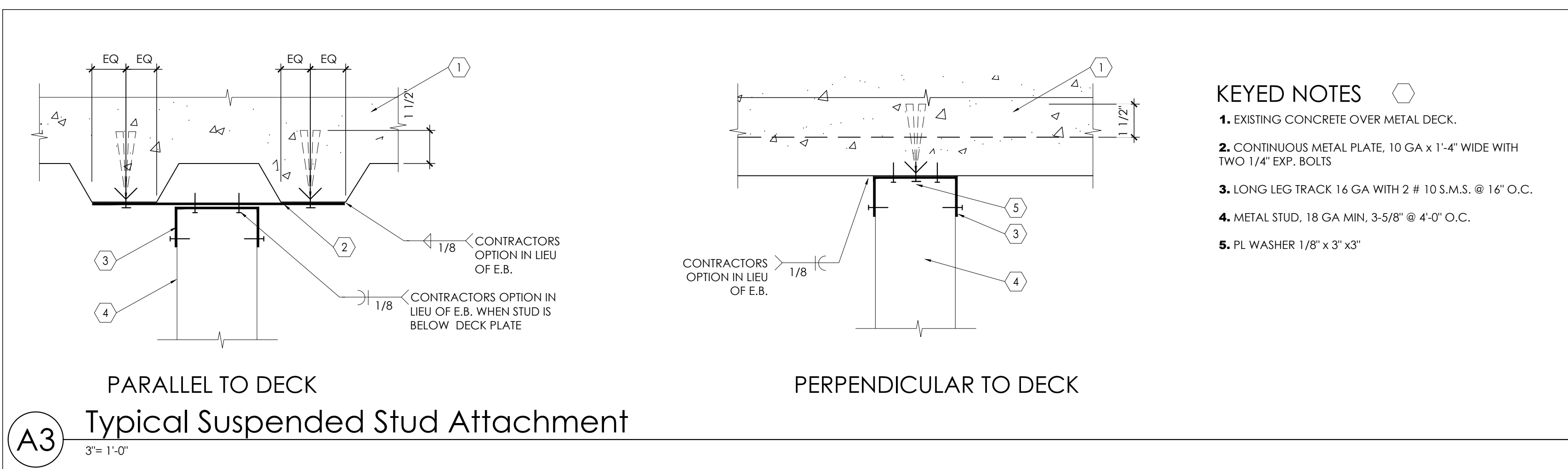
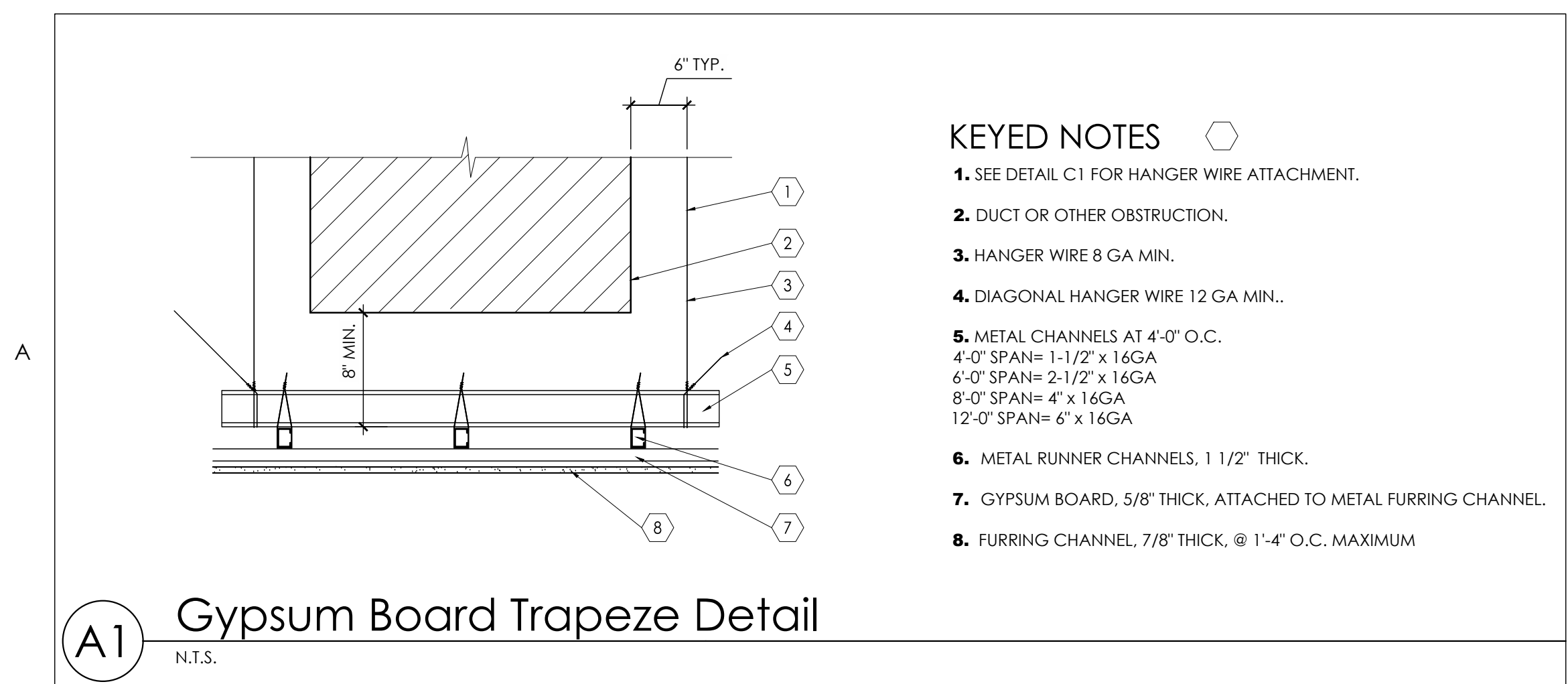
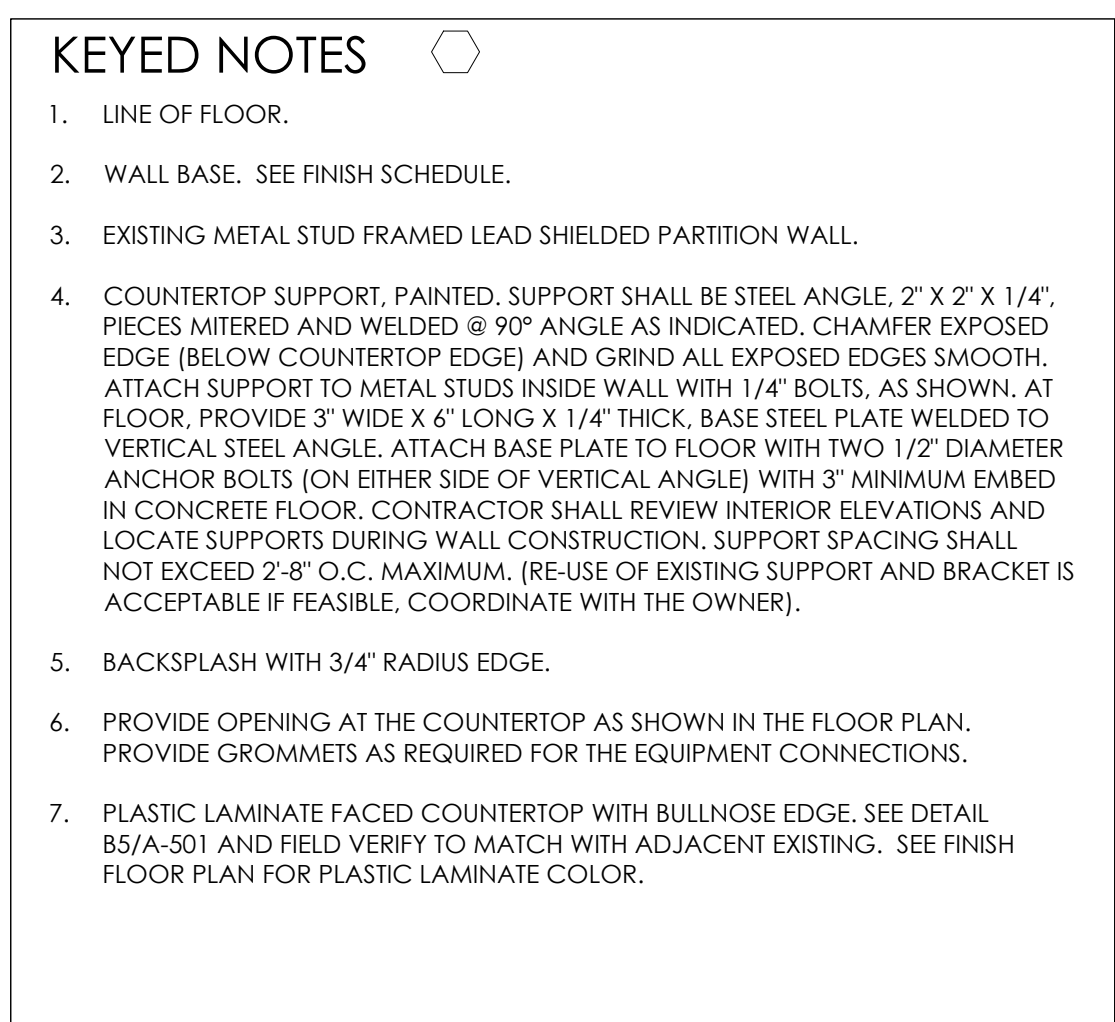
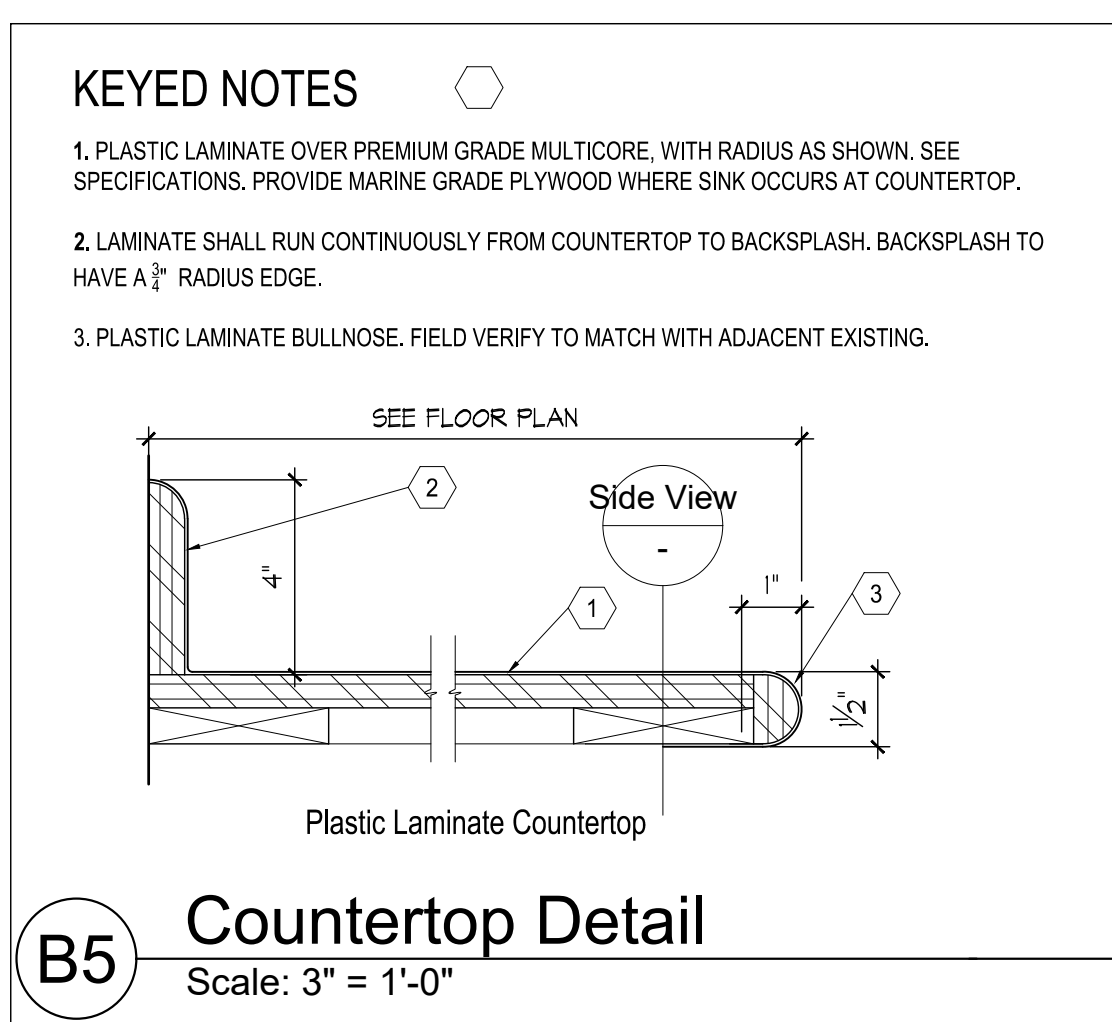
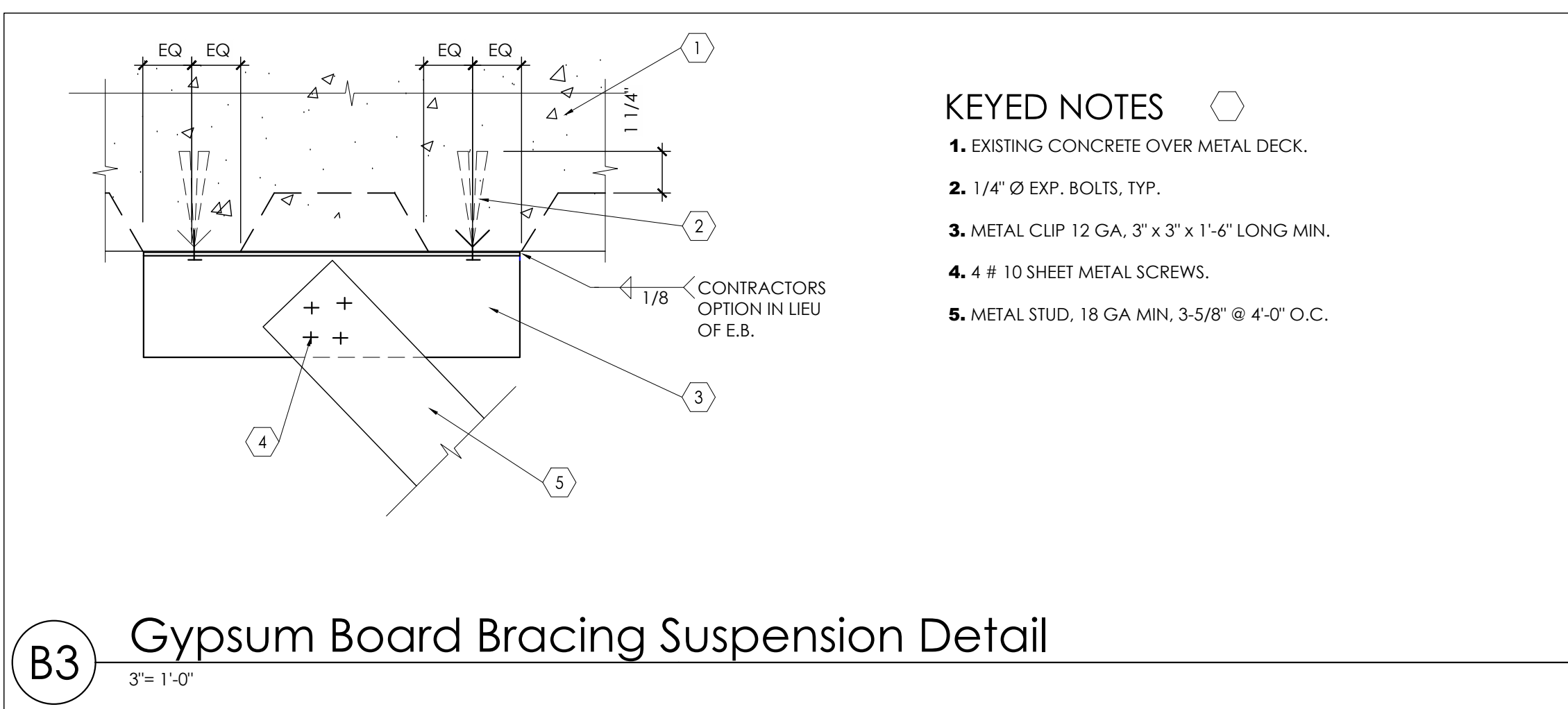
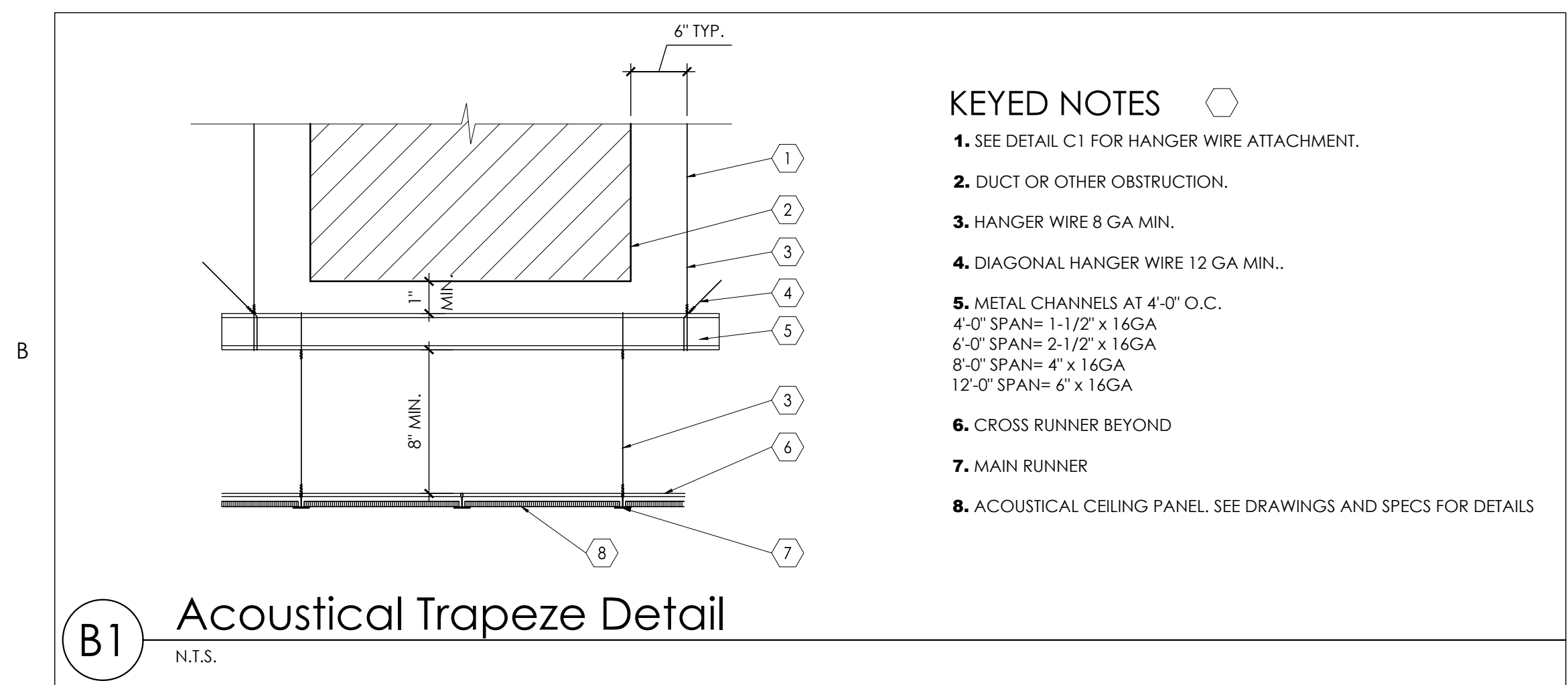
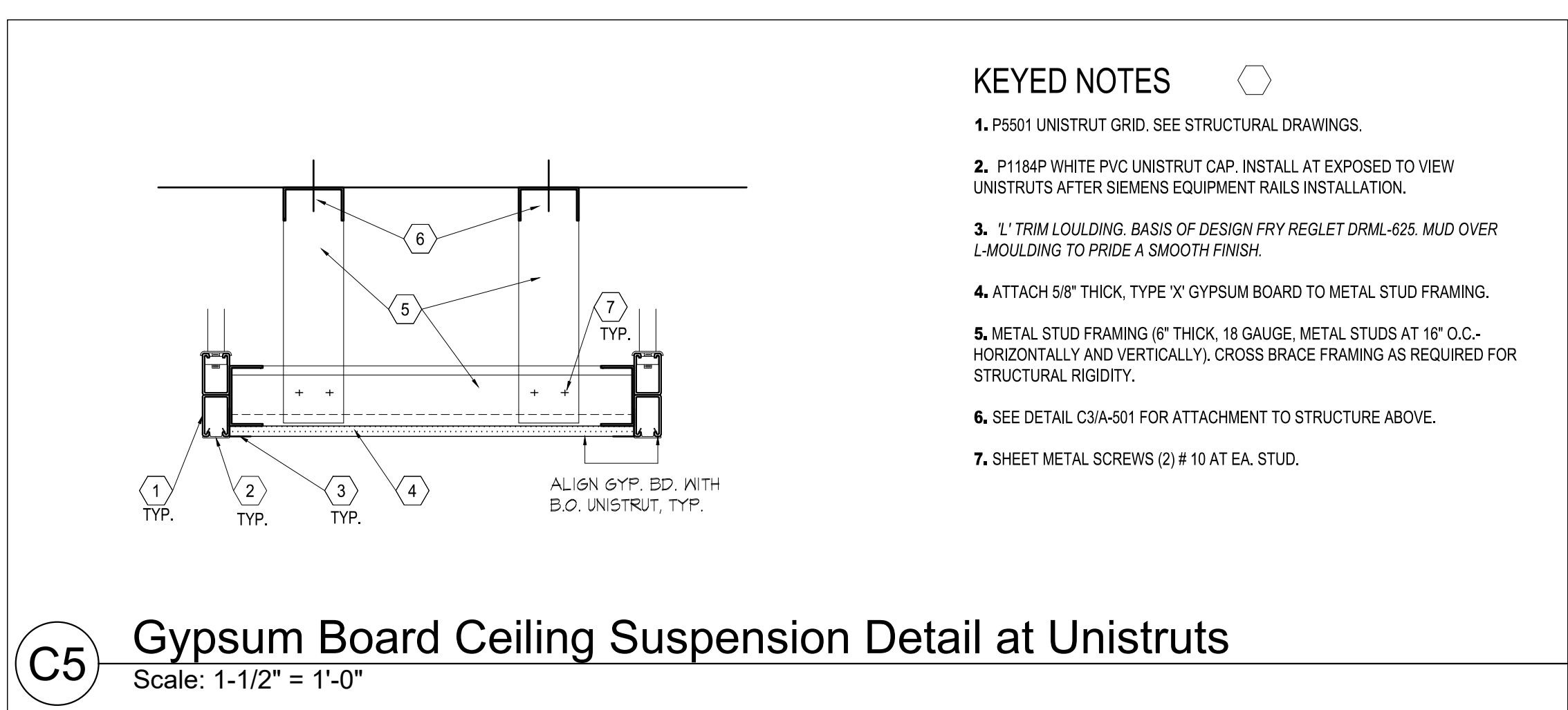
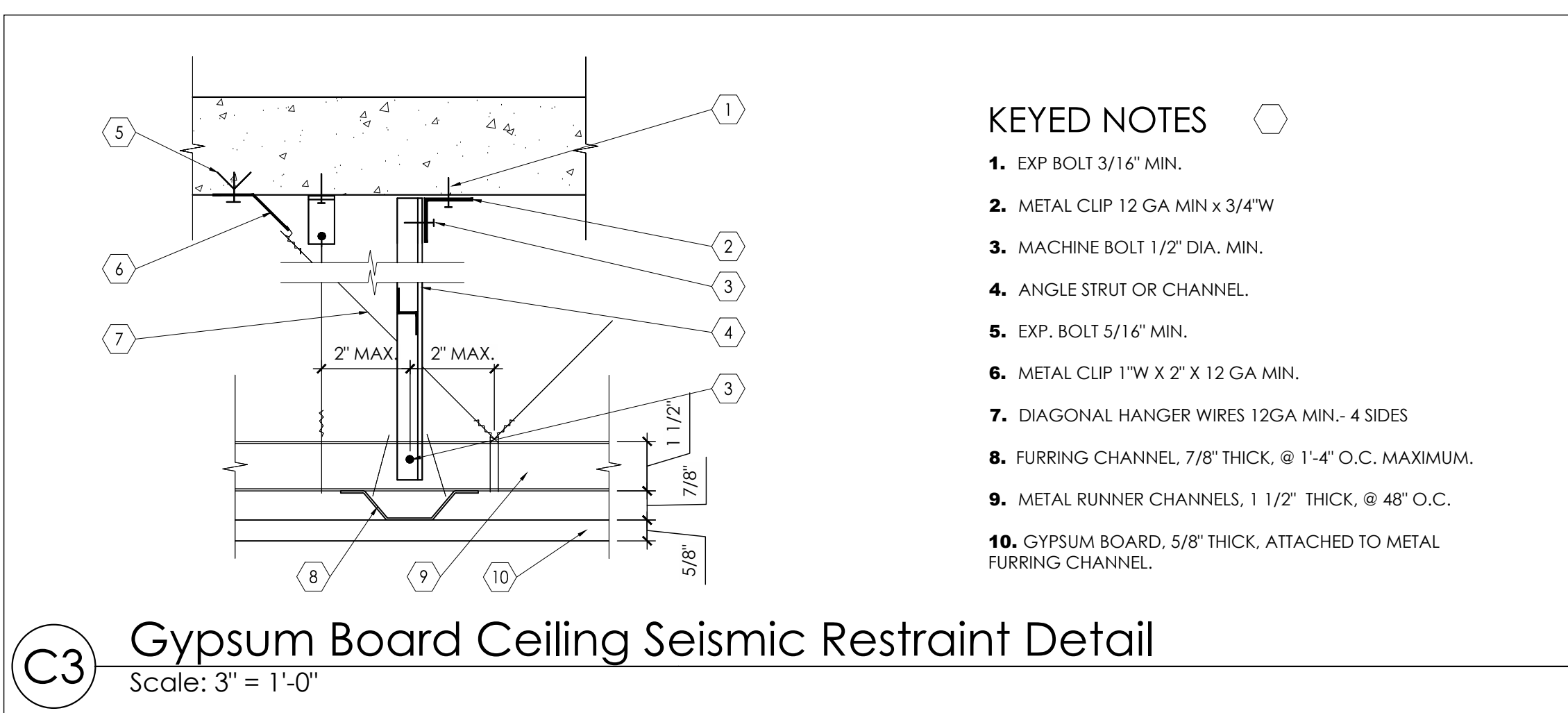
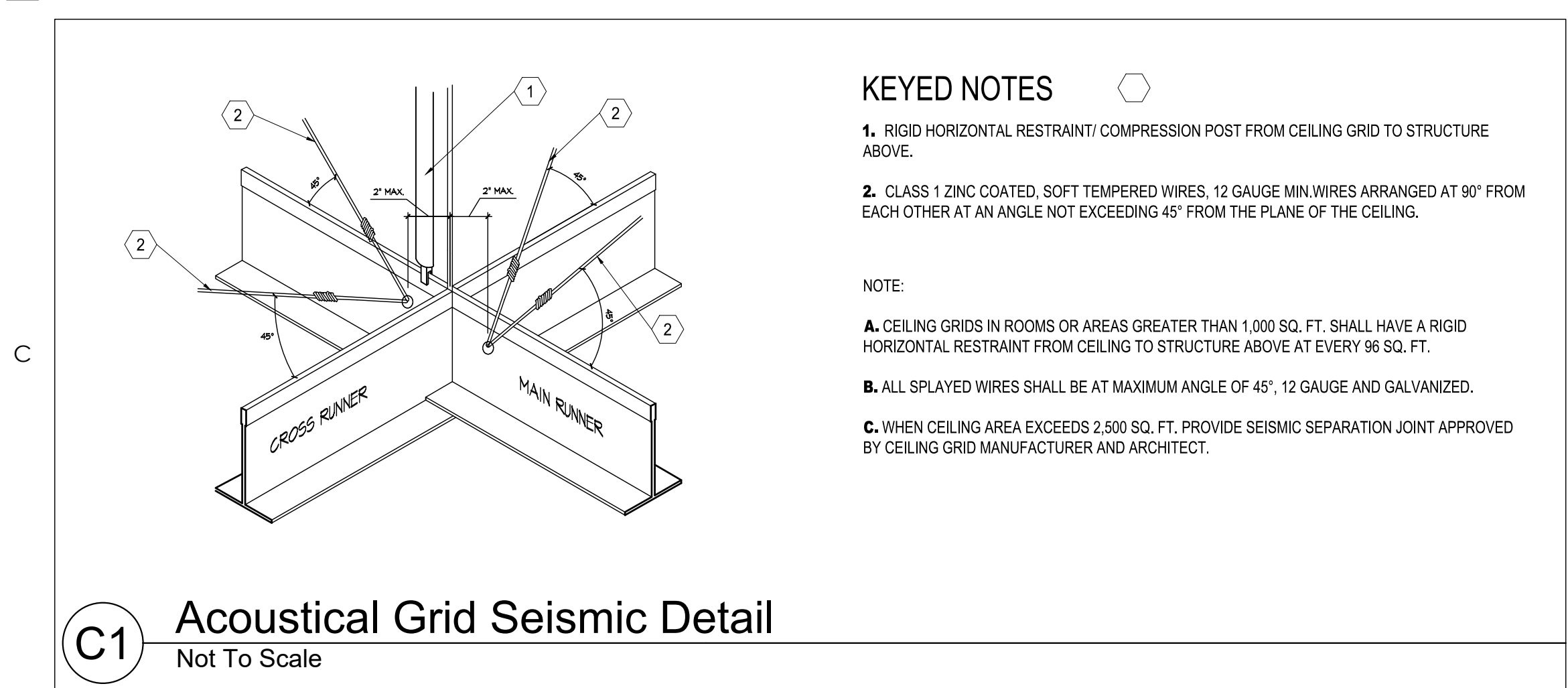
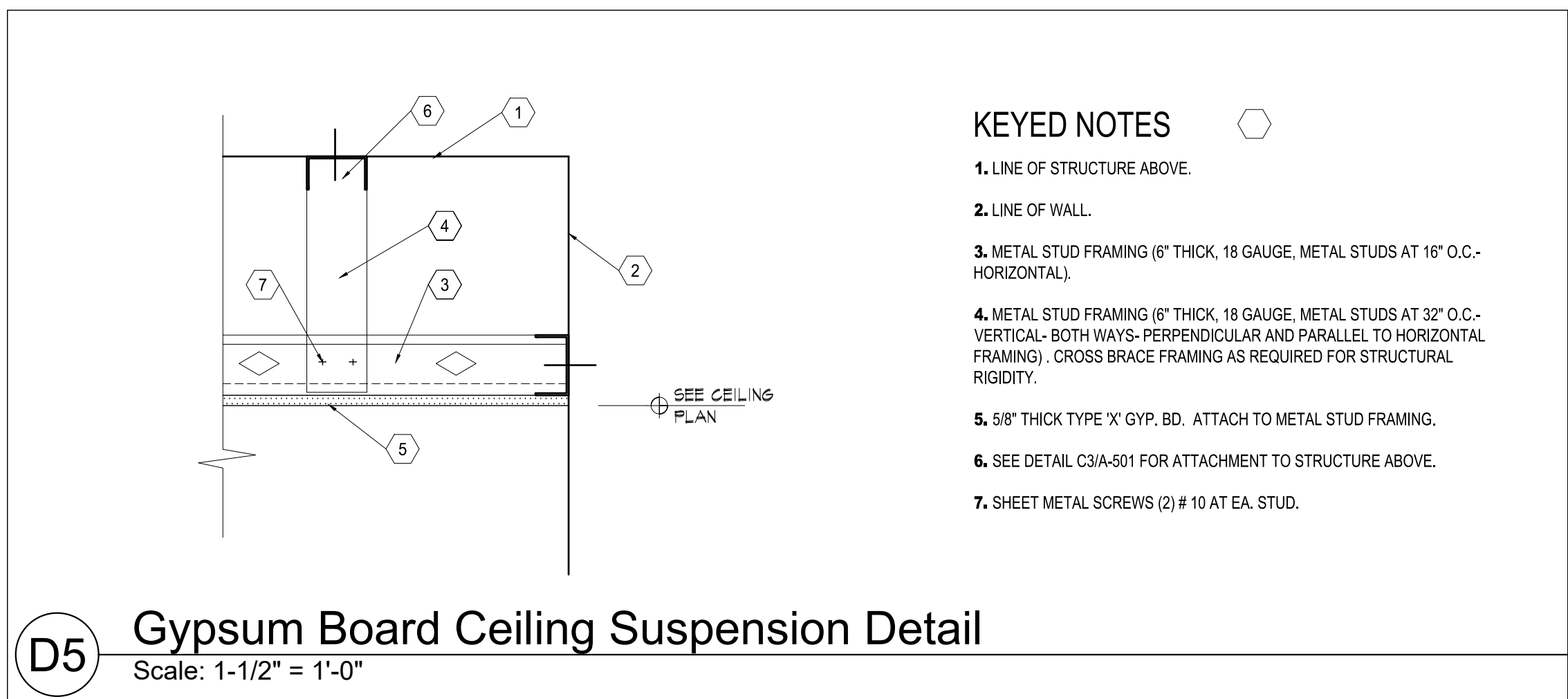
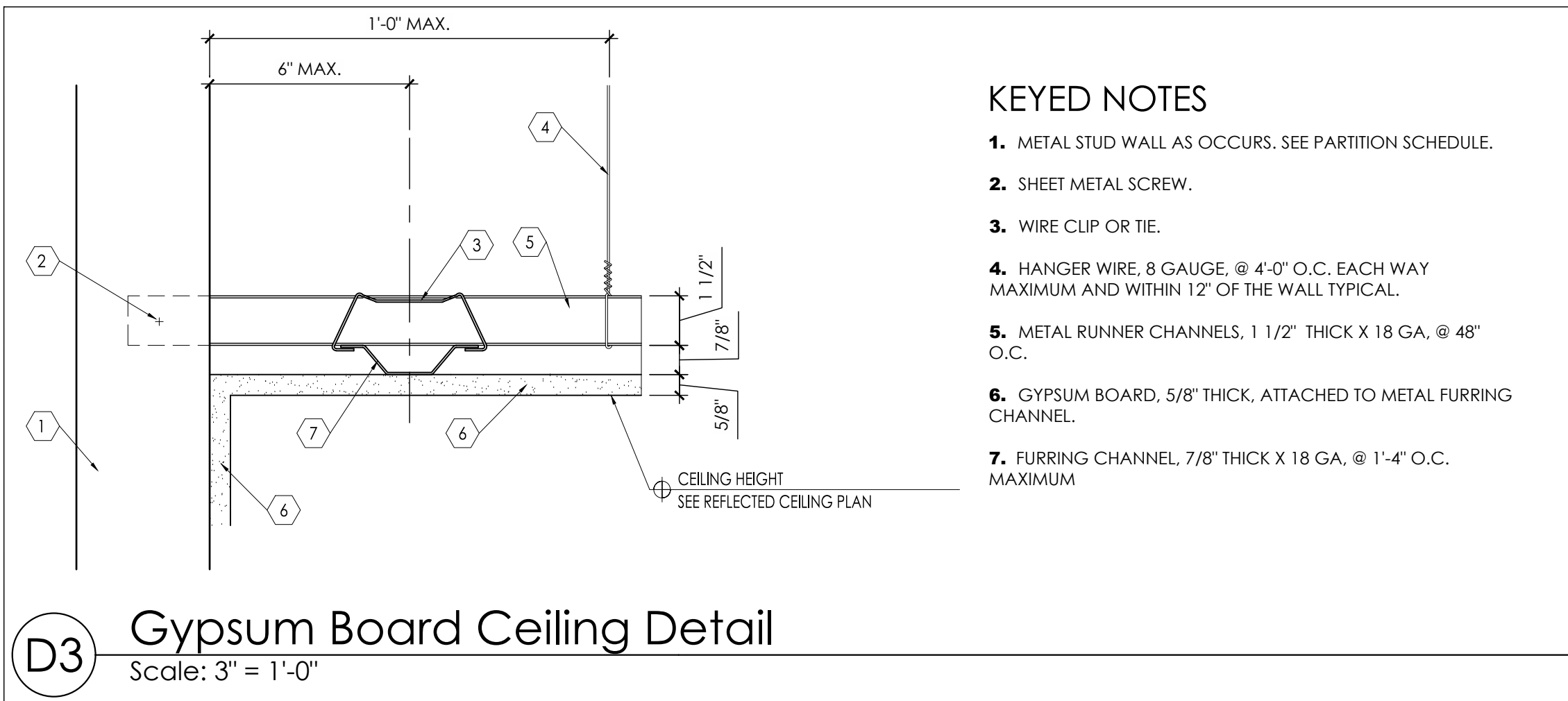
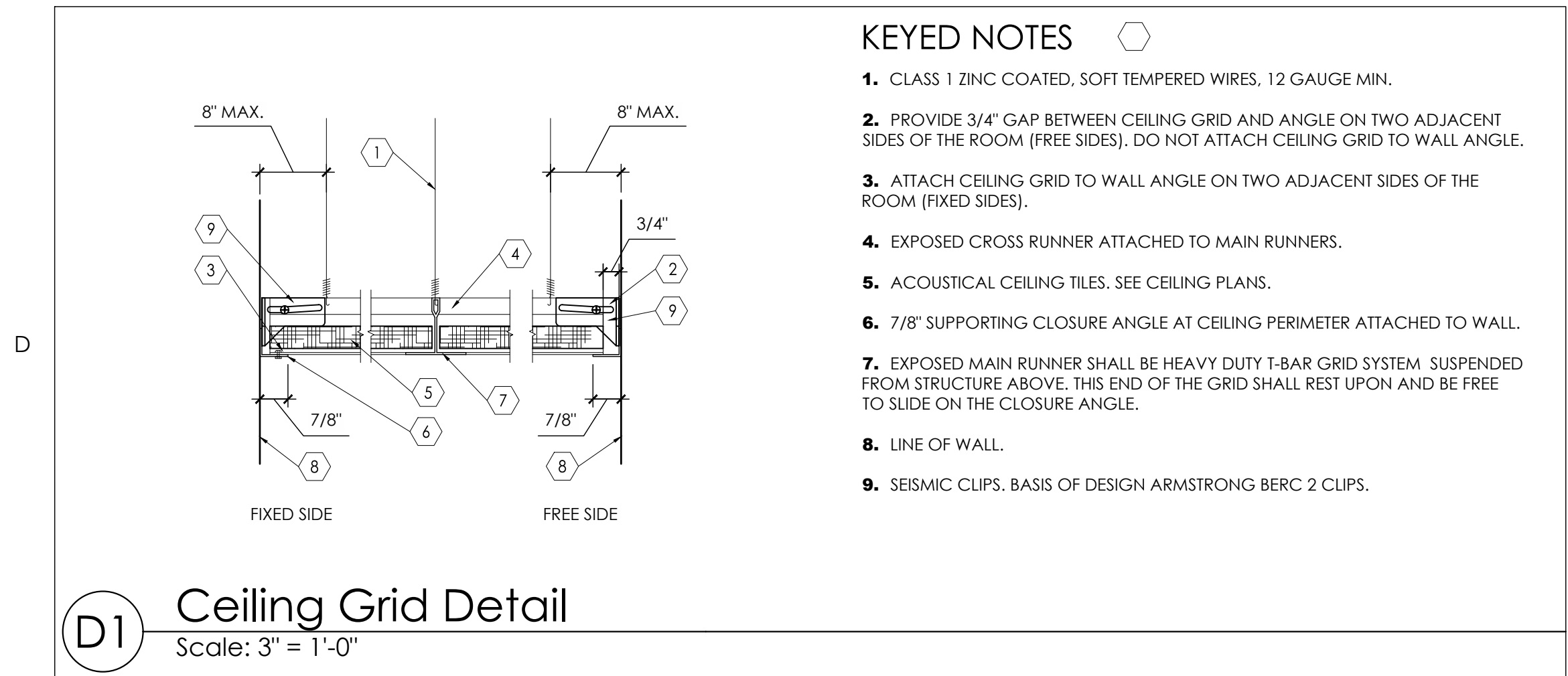
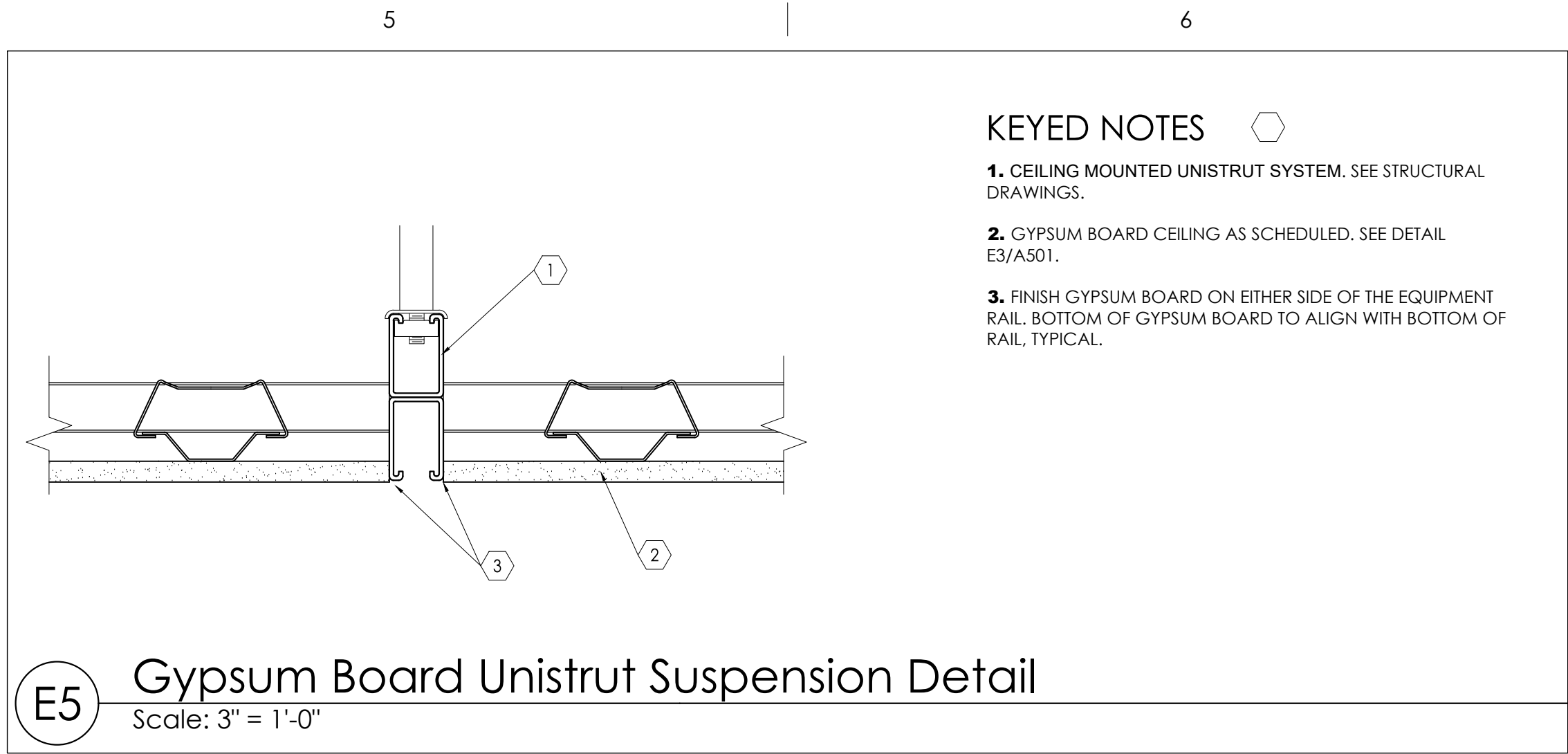
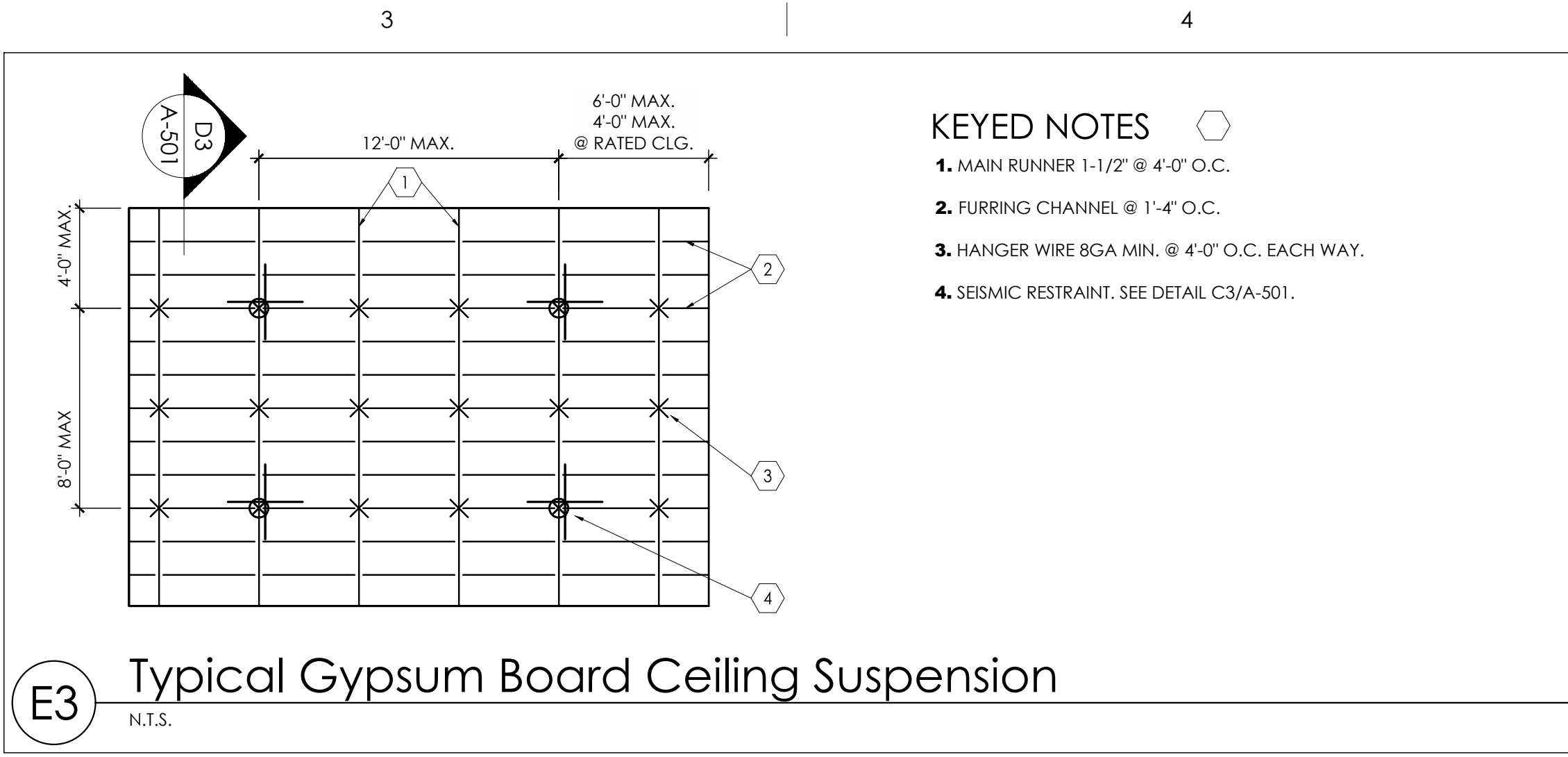
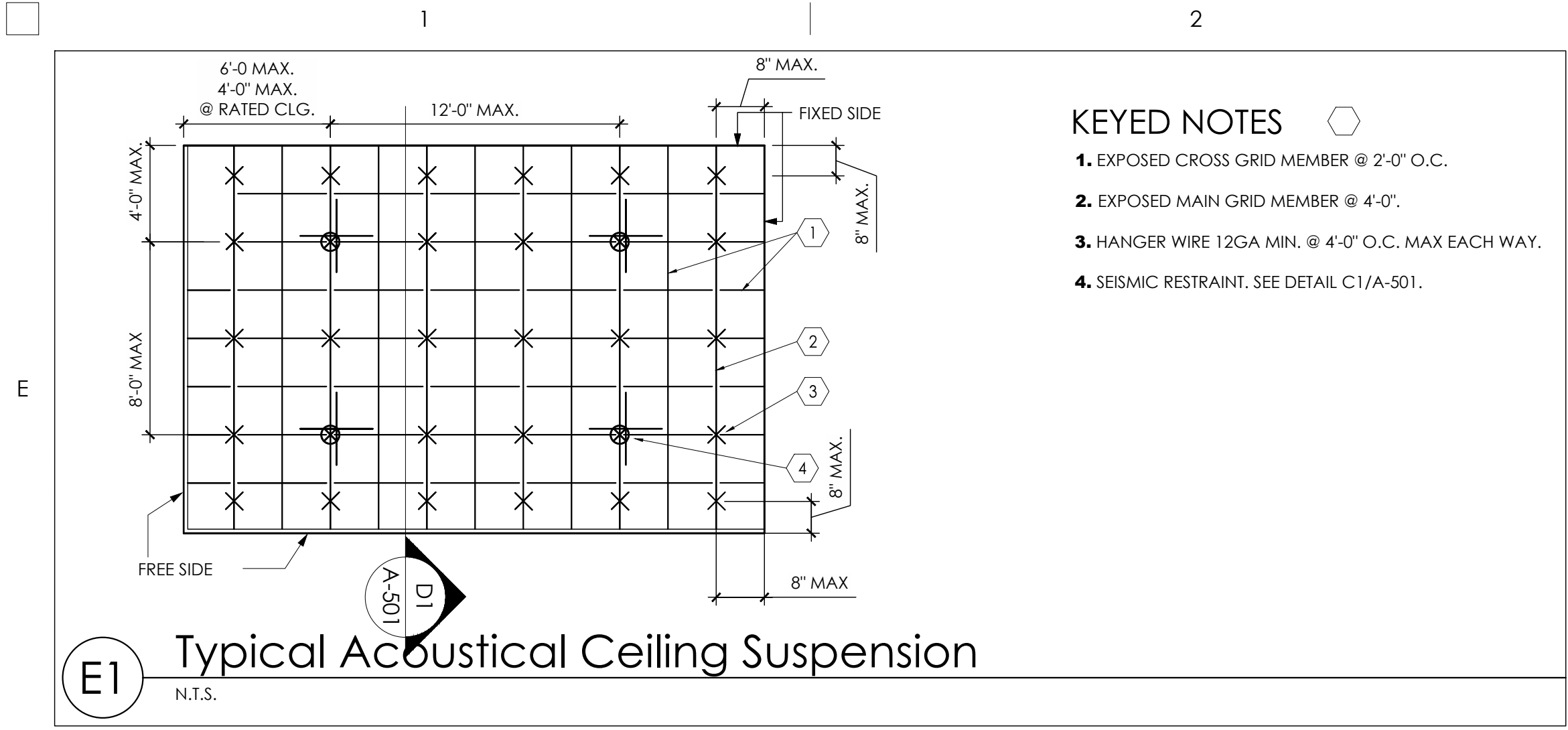
Finish Floor Plan-
Level 1

A151

5121 South Cottonwood Street
Murray, UT 84107



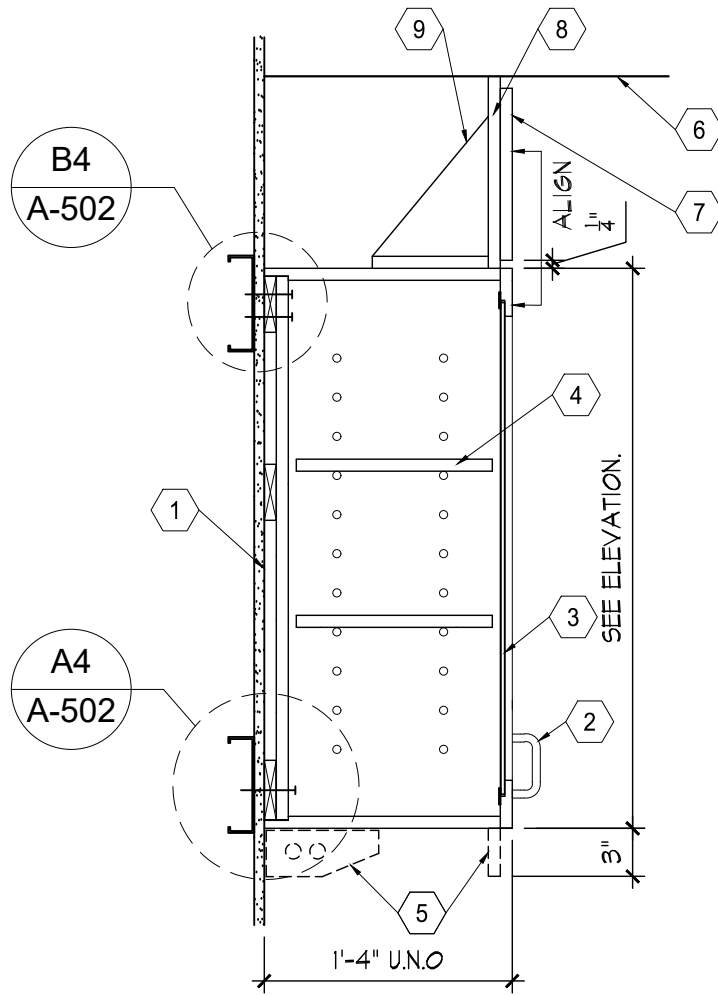
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12/21/2021 9:59:11 AM - I:\2001\HC\20229\00\HC - IMC CATH LAB #1\02 BIM - REVIT & AUTOCAD\02 AUTOCAD DWGS\A502 INTERIOR ELEVATIONS.DWG

KEYED NOTES

1. $\frac{1}{2}$ " GYP. BD. SEE DETAIL A1/A-501 FOR WALL TYPES.
2. DOOR PULL. 4" WIRE PULL. BRUSHED NICKEL FINISH. SEE SPECIFICATIONS IN PROJECT MANUAL.
3. PLASTIC LAMINATE CABINET DOOR, WITH $\frac{1}{2}$ " GLAZING.
4. ADJUSTABLE SHELF. SECURE WITH CLIPS.
5. PROVIDE PLASTIC LAMINATE FASCIA PANEL IN PLACES WHERE UNDER CABINET LIGHT OCCURS. SEE ELECTRICAL DRAWINGS FOR UNDER CABINET LIGHT FIXTURE LOCATIONS.
6. LINE OF CEILING. SEE REFLECTED CEILING PLAN.
7. CLOSURE PANEL. PROVIDE A $\frac{1}{2}$ " REVEAL ALL AROUND WHERE CLOSURE PNL. MEETS CEILING. PROVIDE $\frac{1}{2}$ " REVEAL ONLY ON THE FRONT FACE WHERE CLOSURE PNL. MEETS CABINET DOOR.
8. CONTINUOUS SCRIBE STRIP.
9. PANEL SUPPORT AS REQUIRED.



D1 Wall Cabinet
Scale: 1" = 1'-0"

KEYED NOTES

1. EXISTING CONCRETE SLAB OVER EXISTING METAL DECK.
2. NOT USED
3. NOT USED
4. METAL STUDS AS SCHEDULED. UNLESS OTHERWISE NOTED, PROVIDE 20 GA GALVANIZED METAL STUDS AT 1'-4" O.C. THROUGHOUT. STUD DESIGNATION TO BE 362S 162-33 (33 MIL. MIN.)
5. ACOUSTICAL TILE CEILING WHERE OCCURS. SEE REFLECTED CEILING PLAN.
6. GYPSUM BOARD CEILING WHERE OCCURS. SEE REFLECTED CEILING PLAN.
7. PROVIDE 3 1/2" BATT INSULATION (R-13 MIN) THROUGHOUT UNLESS OTHERWISE NOTED.
8. GYPSUM BOARD, 5/8" THICK, TYPE 'X' TYPICAL. U.N.O. ATTACHED TO METAL STUD FRAMING. SEE GENERAL NOTE # 8' BELOW.
9. ANCHOR BASE TRACK TO CONCRETE FLOOR BELOW. SEE DETAIL B3/A502.
10. STOP GYPSUM BOARD 1/4" ABOVE THE FLOOR TYP. PROVIDE ACOUSTIC SEALANT AT SOUND WALLS.
11. ISOLATION BOX AS OCCURS. PROVIDE FIRE MOLDABLE PUTTY PADS AND FIRESTOP SEALANT AROUND ELECTRICAL BOXES AT ALL RATED WALLS. TYP.

GENERAL NOTES

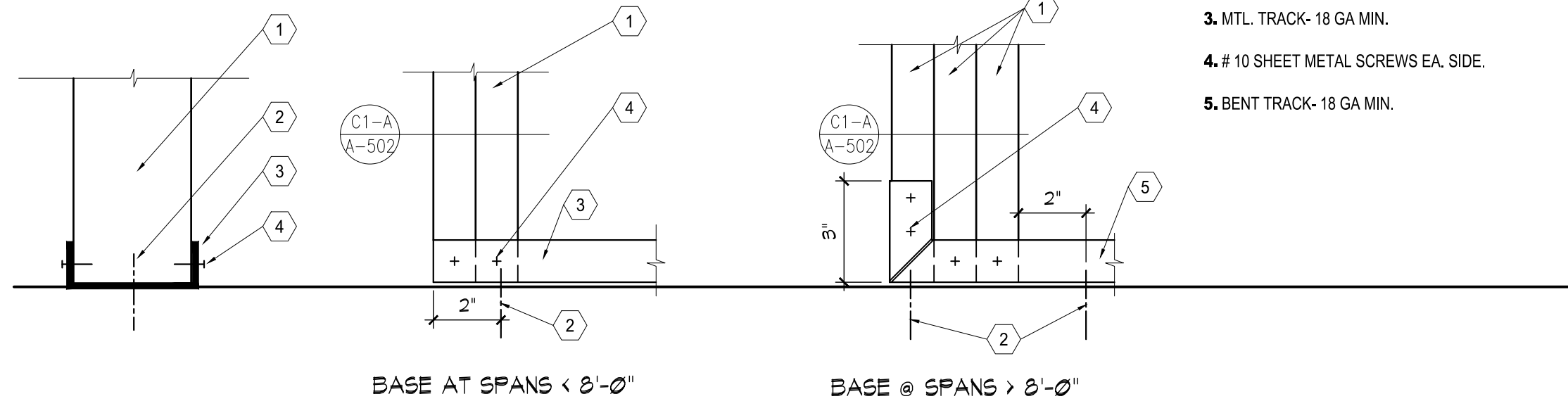
- A. PARTITION TYPE / FURRED WALLS ARE TYPE 'A' THROUGHOUT UNLESS NOTED OTHERWISE.
- B. CONTRACTOR SHALL VERIFY ITEMS LIKE SEMI OR FULLY RECESSED MISCELLANEOUS BOXES, PANELS, PLUMBING LINES, CONDUITS, PIPES, ETC. THAT ARE CONCEALED IN THE WALL. IF 3-5/8" METAL STUD ARE INADEQUATE, CONTRACTOR SHALL NOTIFY THE ARCHITECT AND USE 6" STUDS. COORDINATE WITH ALL THE CONSULTANT DRAWINGS PRIOR TO WALL CONSTRUCTION AND USE 6" OR 8", 20 GAUGE, METAL STUDS FOR FRAMING IN LIEU OF 3-5/8" METAL STUDS.

FURRING WALL TYPE 'A'

D2 Wall Types
Scale: 1-1/2" = 1'-0"

KEYED NOTES

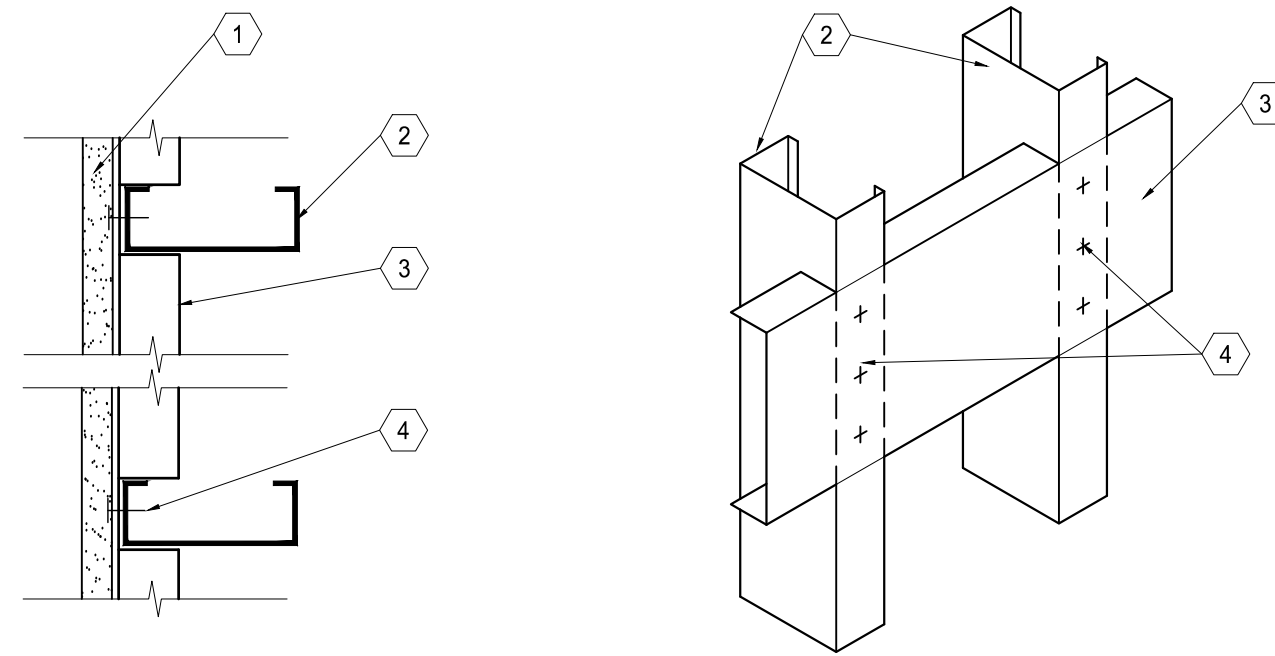
1. METAL STUDS.
2. 0.14" DIA. POWDER DRIVEN PINS W/ $\frac{1}{2}$ " MIN. EMBED @ 2' FROM THE ENDS.
3. MTL. TRACK- 18 GA MIN.
4. # 10 SHEET METAL SCREWS EA. SIDE.
5. BENT TRACK- 18 GA MIN.



E4 Base Track
Scale: 3" = 1'-0"

KEYED NOTES

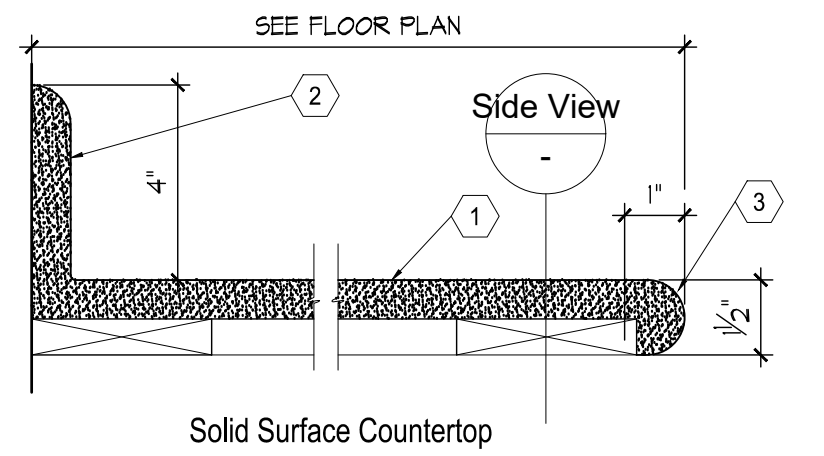
1. $\frac{5}{8}$ " TYPE 'X' GYPSUM BOARD.
2. EXISTING OR NEW 3 $\frac{1}{2}$ " METAL STUDS @ 16" O.C.
3. 6" X 16 GA METAL STUD BLOCKING. EXTEND BLOCKING TO NEXT STUD BEYOND EQUIPMENT - TYPICAL BOTH SIDES
4. 3 # 10 SHEET METAL SCREWS AT EA. STUD.



D4 Metal Stud Blocking Detail
Scale: 3" = 1'-0"

KEYED NOTES

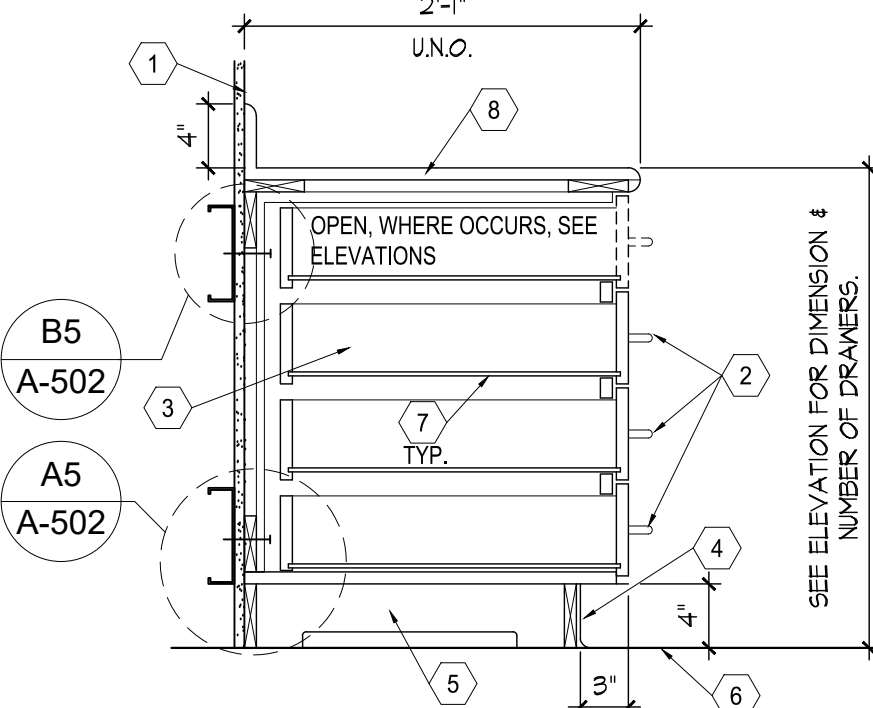
1. SOLID SURFACE COUNTERTOP, WITH RADIUS AS SHOWN. SEE SPECIFICATIONS.
2. SOLID SURFACE INTEGRAL BACKSPLASH. BACKSPLASH TO HAVE A $\frac{1}{2}$ " RADIUS EDGE.
3. SOLID SURFACE BULLNOSE. FIELD VERIFY TO MATCH WITH ADJACENT EXISTING.



C3 Solid Surface Countertop Detail
Scale: 3" = 1'-0"

KEYED NOTES

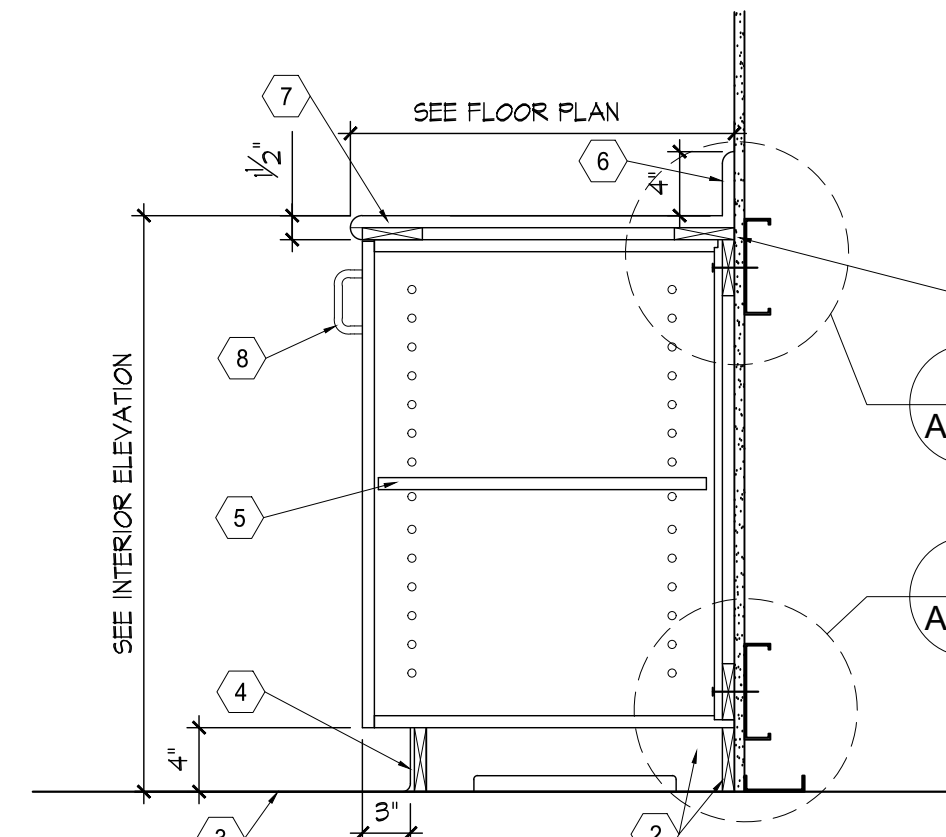
1. EXISTING WALL TO REMAIN. PATCH AND REPAIR AFTER INSTALLATION OF WALL BACKING AS REQUIRED.
2. DOOR OR DRAWER PULL. 4" WIRE PULL. BRUSHED NICKEL FINISH. SEE SPECIFICATIONS IN PROJECT MANUAL.
3. DRAWER. SEE SPECIFICATIONS IN PROJECT MANUAL FOR TYPICAL DRAWER CONSTRUCTION.
4. WALL BASE. SEE FINISH SCHEDULE.
5. CABINET BASE. COORDINATE WITH ELECTRICAL DRAWINGS FOR POWER, DATA OUTLETS THAT ARE LOCATED HERE.
6. LINE OF FLOOR.
7. DRAWER BOTTOM PANEL. SEE SPECIFICATIONS IN PROJECT MANUAL FOR TYPICAL DRAWER CONSTRUCTION.
8. PLASTIC LAMINATE OR SOLID SURFACE COUNTERTOP WITH BULLNOSE EDGE. PROVIDE SOLID SURFACE END CAP AT ALL EXPOSED ENDS. SEE B5/A-502. SEE FINISH PLAN FOR MORE INFORMATION.



C4 Base Cabinet with Drawers
Scale: 1" = 1'-0"

KEYED NOTES

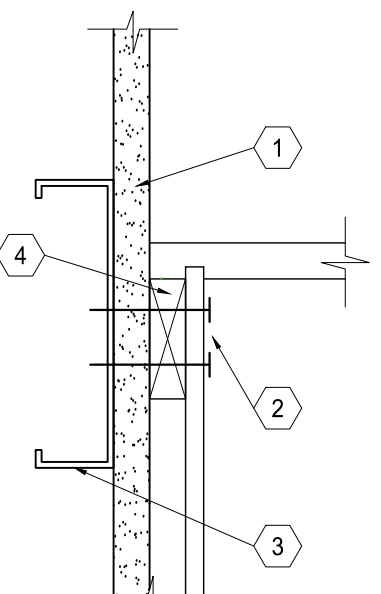
1. 5/8" THK PAINTED GYPSUM BOARD SHEATHING ON 3-5/8" MTL. STUD FRAMING, WHERE OCCURS.
2. CABINET BASE. COORDINATE WITH ELECTRICAL DRAWINGS TO RUN POWER, DATA THROUGH THE BACK WALL.
3. LINE OF FLOOR.
4. WALL BASE. SEE FLOOR PLAN.
5. MULTI-CORE, 1" THICK, PREMIUM GRADE - PANEL CORE PRODUCT USED FOR LAMINATED CASEWORK. SEE ELEVATIONS FOR NUMBER OF ADJUSTABLE SHELVES REQUIRED. NOTCH SHELF 1/8" AT SUPPORTS TO PREVENT SLIDE OUT.
6. BACKSPLASH WITH 3/4" RADIUS EDGE.
7. PLASTIC LAMINATE FACED COUNTERTOP WITH BULLNOSE EDGE. PROVIDE SOLID SURFACE END CAP AT ALL EXPOSED ENDS. SEE B5/A-502. FIELD VERIFY PLASTIC LAMINATE TO MATCH EXISTING.
8. DOOR PULL. 4" WIRE PULL. BRUSHED NICKEL FINISH. SEE SPECIFICATIONS IN PROJECT MANUAL.



B3 Base Cabinet Detail
Scale: 1" = 1'-0"

KEYED NOTES

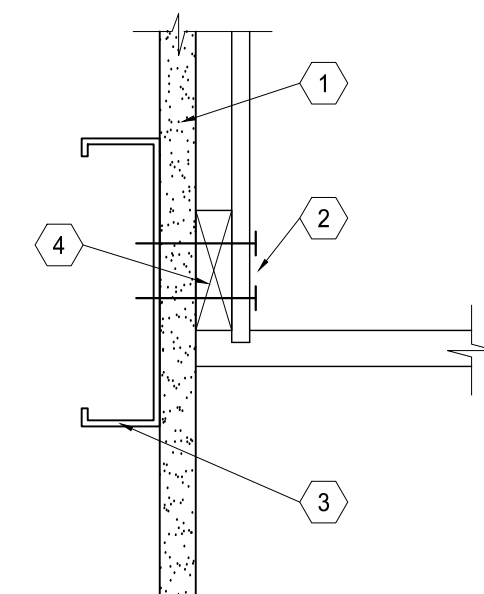
1. FACE OF WALL ASSEMBLY.
2. 2 # 12 S.M.S. @ 16" O.C. MIN. AND 3" FROM EACH END.
3. METAL STUD BLOCKING. SEE DETAIL D4/A-502.
4. SOLID BLOCKING, TYP.



A3 Wall Cabinet Anchorage - Top
Scale: 3" = 1'-0"

KEYED NOTES

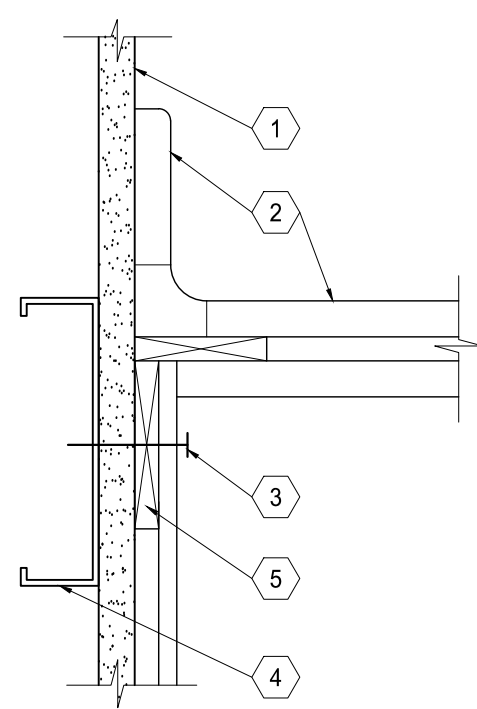
1. FACE OF WALL ASSEMBLY.
2. 2 # 12 S.M.S. @ 16" O.C. MIN. AND 3" FROM EACH END.
3. METAL STUD BLOCKING. SEE DETAIL D4/A-502.
4. SOLID BLOCKING, TYP.



A4 Wall Cab. Anchorage - Bottom
Scale: 3" = 1'-0"

KEYED NOTES

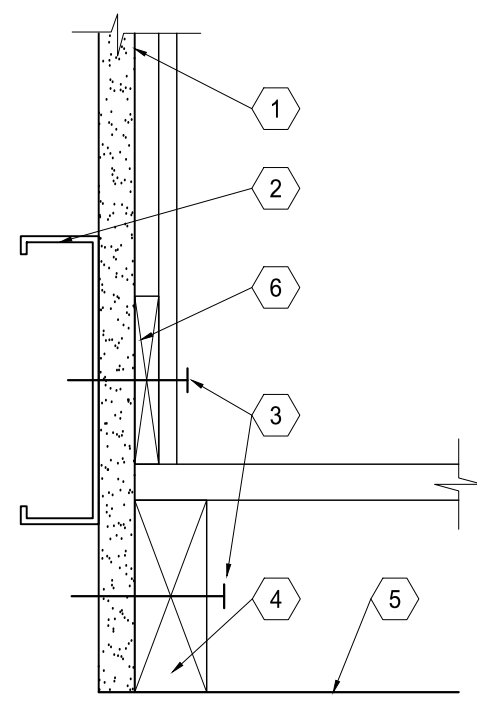
1. FACE OF WALL ASSEMBLY.
2. COUNTERTOP AND BACKSPLASH. SEE DETAIL A4/A-504.
3. # 12 S.M.S. @ 16" O.C. MIN. AND 3" FROM EACH END.
4. METAL STUD BLOCKING. SEE DETAIL D4/A-502.
5. SOLID BLOCKING, TYP.



B5 Base Cabinet Anchorage
Scale: 3" = 1'-0"

KEYED NOTES

1. FACE OF WALL ASSEMBLY.
2. METAL STUD BLOCKING. SEE DETAIL D4/A-502.
3. # 12 S.M.S. @ 16" O.C. MIN. AND 3" FROM EACH END.
4. PRESSURE TREATED CABINET BASE SUPPORT.
5. LINE OF FLOOR.
6. SOLID BLOCKING, TYP.



A5 Base Cabinet Anchorage
Scale: 3" = 1'-0"

KEY NOTES - ELEVATION

1. EXISTING LEAD LINED DOORS, FRAME & HARDWARE TO REMAIN. PROTECT DURING CONSTRUCTION.
2. EXISTING BASE CABINET AND UPPER WALL CABINET. TO REMAIN. PROTECT DURING CONSTRUCTION.
3. REPAINT EXISTING H.M. DOOR FRAME, TYP. SEE FINISH FLOOR PLAN.
4. LINE OF EXISTING SOFFIT, FIELD VERIFY.
5. NEW SOLID SURFACE COUNTERTOP AND BACKSPLASH. SEE DETAIL C3/A502 AND FINISH FLOOR PLAN FOR MORE INFORMATION. HEIGHT OF COUNTERTOP SHALL MATCH WITH THE ADJACENT EXISTING.
6. NEW PLASTIC LAMINATE WALL MOUNTED CABINET. SEE DETAIL A3/A502 FOR MORE INFORMATION. FIELD VERIFY TO MATCH FINISH AND SIZE OF ADJACENT EXISTING.
7. NEW PLASTIC LAMINATE BASE CABINET WITH DOOR AND SHELVING. SEE DETAIL C2/A502 FOR MORE INFORMATION. FIELD VERIFY TO MATCH EXISTING.
8. NEW PLASTIC LAMINATE BASE CABINET WITH DRAWERS. SEE DETAIL C4/A502 FOR MORE INFORMATION. FIELD VERIFY TO MATCH EXISTING.
9. PROVIDE FINISHED PLASTIC LAMINATE END PANEL AFTER REMOVAL OF EXISTING SINK AND CABINET AT THIS LOCATION. FIELD VERIFY TO MATCH EXISTING FINISH.
10. PATCH, REPAIR AND REFINISH GYPSUM WALL AFTER REMOVAL OF CABINET HERE.
11. PROVIDE PLASTIC LAMINATE CLOSER PANEL.
12. LINE OF CEILING ABOVE.
13. PROVIDE FINISHED PLASTIC LAMINATE END PANEL.

GENERAL NOTES

1. COORDINATE WITH SIEMENS REPRESENTATIVE TO ENSURE REQUIRED CEILING HEIGHT OF 8' - 11" IS ACHIEVED FROM FINISHED FLOOR TO THE FACE OF THE UNISTRUT INSTALLED AT THE CEILING. SEE SIEMENS EQUIPMENT DRAWINGS FOR ACCEPTABLE FLOOR SLOPE TOLERANCES AND FOR MORE INFORMATION. FIELD VERIFY AND COORDINATE WORK BEFORE PROCEEDING.
2. ALL EXPOSED STEEL IN THE WALLS, ABOVE CEILING ETC. ARE REQUIRED TO BE SPRAY APPLIED FIRE PROOFED. SEE CODE COMPLIANCE PLANS FOR FIRE RATINGS THAT IS REQUIRED TO BE MAINTAINED THROUGHOUT THE PROJECT. ANY DAMAGE TO THE EXISTING FIRE PROOFING IS REQUIRED TO BE PATCHED AND REPAIRED WITH COMPATIBLE FIRE PROOFING PRODUCT.
3. ALL EXISTING MAGNETIC AND LEAD SHIELDING IN THE EXISTING WALLS, FLOOR AND ROOF DECK IS REQUIRED TO BE RETAINED. REPLACE TO MAINTAIN SHIELDING WITH EQUIVALENT SHIELDING TO MATCH ORIGINAL CONDITIONS, IF DAMAGED DURING CONSTRUCTION.

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LEGEND OF MECHANICAL SYMBOLS AND ABBREVIATIONS

| SINGLE LINE | DOUBLE LINE | |
|-------------|-------------|--|
| | | POSITIVE PRESSURE DUCT – RISE |
| | | POSITIVE PRESSURE DUCT – DROP |
| | | NEGATIVE PRESSURE DUCT – RISE |
| | | NEGATIVE PRESSURE DUCT – DROP |
| | | ROUND DUCT – RISE |
| | | ROUND DUCT – DROP |
| | | UNDER FLOOR DUCT |
| | | TURNING VANES |
| | | FRESH AIR LOUVER |
| | | RELIEF AIR OR EXHAUST AIR LOUVER |
| | | CEILING SUPPLY DIFFUSER |
| | | CEILING RETURN REGISTER |
| | | CEILING EXHAUST REGISTER, (BALANCE TO MATCH SUPPLY IF RETURN CFM IS NOT SHOWN) |
| | | SIDEWALL SUPPLY REGISTER |
| | | SIDEWALL EXHAUST OR RETURN REGISTER |
| | | CEILING SUPPLY DIFFUSER WITH FLEXIBLE DUCT |
| | | CEILING RETURN AIR GRILLE W/ SOUND BOOT |
| | | LINEAR DIFFUSER WITH PLENUM AND FLEXIBLE DUCT CONNECTION. NO. OF SLOTS ON TOP, ACTIVE LENGTH AND CFM ON BOTTOM |
| | | FLEXIBLE DUCT CONNECTION |
| | | FLEXIBLE DUCT |
| | | FAN |
| | | FLAT OVAL DUCT WITH NET INSIDE DIMENSIONS SHOWN IN INCHES. |
| | | RECTANGULAR DUCT WITH NET INSIDE DIMENSIONS SHOWN IN INCHES. |
| | | ROUND DUCT WITH NET INSIDE DIMENSIONS SHOWN IN INCHES. |
| | | INCLINED RISE |
| | | INCLINED DROP |
| | | R/W=1. ROUND DUCT SIMILAR TO RECTANGULAR |
| | | RECTANGULAR TO RECTANGULAR OR ROUND TO ROUND DUCT TRANSFORMATION MAXIMUM 15' INCLUDED ANGLE EXCEPT WHERE SHOWN OTHERWISE. |
| | | RECTANGULAR TO ROUND DUCT TRANSFORMATION BRANCH DUCT SPLIT WITH 6" WIDTH AND MIN. R=WIDTH OF BRANCH DUCT DOWNSTREAM. ELBOW TURNING VANE OPTIONAL. |
| | | TAP ENTRY AREA EQUALS 150% OF BRANCH AREA |
| | | HIGH EFFICIENCY FITTING |
| | | MANUAL VOLUME DAMPER |
| | | FIRE DAMPER IN DUCT, W/ ACCESS PANEL REQD. |
| | | COMBINATION FIRE/SMOKE DAMPER W/ ACCESS PANEL |
| | | SMOKE DAMPER W/ ACCESS PANEL |
| | | ATC DAMPER |
| | | ACCESS PANEL IN DUCT OR PLENUM |
| | | HEATING OR COOLING COIL IN DUCT |
| | | SINGLE DUCT AIR TERMINAL BOX VARIABLE OR CONSTANT VOLUME, MIN. 1-1/2 TERMINAL INLET SIZE STRAIGHT DUCT AT TERMINAL INLET. |

TOP FIGURES INDICATE
NECK SIZE, BOTTOM
FIGURE INDICATES CFM.

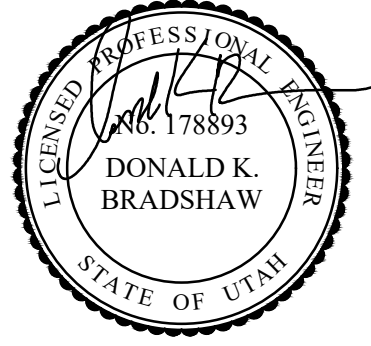
| | |
|--|-----------------------------------|
| | 4-WAY BLOW PATTERN |
| | 3-WAY BLOW PATTERN |
| | 2-WAY BLOW PATTERN |
| | 2-WAY BLOW PATTERN |
| | 1-WAY BLOW PATTERN |
| | LOW PRESSURE CONDENSATE |
| | MEDIUM PRESSURE CONDENSATE |
| | HIGH PRESSURE CONDENSATE |
| | LOW PRESSURE STEAM |
| | MEDIUM PRESSURE STEAM |
| | HIGH PRESSURE STEAM |
| | BOILER BLOW DOWN |
| | BOILER FEED WATER |
| | VACUUM |
| | PUMPED CONDENSATE |
| | MAKE UP WATER |
| | NATURAL GAS |
| | EXISTING PIPING |
| | CHILLED WATER SUPPLY |
| | CHILLED WATER RETURN |
| | CONDENSER WATER SUPPLY |
| | CONDENSER WATER RETURN |
| | HEATING HOT WATER SUPPLY |
| | HEATING HOT WATER RETURN |
| | GLYCOL HEAT RECOVERY PIPING |
| | GLYCOL PIPING SOLUTION |
| | LIQUIFIED PETROLEUM GAS |
| | EXISTING PIPING TO BE REMOVED |
| | REFRIGERANT LIQUID |
| | REFRIGERANT SUCTION |
| | HOT GAS |
| | FUEL OIL SUPPLY |
| | FUEL OIL RETURN |
| | HELICOPTER FUEL SUPPLY |
| | HELICOPTER FUEL RETURN |
| | CHEMICAL FEED |
| | SOLENOID VALVE |
| | EXPANSION JOINT |
| | ALIGNMENT GUIDE |
| | DEMOLITION |
| | AHCHOR |
| | PRESSURE GAUGE WITH SHUT-OFF COCK |
| | PRESSURE GAUGE WITH PIGTAIL |
| | FLANGE |

| | |
|--|--|
| | UNION |
| | FLOW METER ORIFICE |
| | AIR VENT-MANUAL |
| | AIR VENT-AUTO |
| | FLOW SWITCH |
| | TEMPERATURE AND PRESSURE TEST PORT |
| | PRESSURE SWITCH |
| | REDUCED PRESSURE BACKFLOW PREVENTOR W/ DRAIN PAN |
| | PRESSURE REDUCING, SELF CONTAINED VALVE |
| | PRESSURE REDUCING, EXTERNAL PRESSURE VALVE |
| | BALL VALVE (PIPE SIZES 2" AND SMALLER) BUTTERFLY VALVE (PIPE SIZES 2-1/2" AND LARGER) |
| | CHECK VALVE |
| | MOTOR OPERATED BUTTERFLY VALVE |
| | GAS COCK |
| | RELIEF VALVE |
| | GATE VALVE |
| | ATC VALVE – 2 WAY |
| | ATC VALVE – 3 WAY |
| | GLOBE VALVE |
| | FLOW CONTROL VALVE |
| | CALIBRATED BALANCING VALVE |
| | SHUT-OFF COCK FOR USE WITH PRESSURE GAUGE |
| | PUMP |
| | FLEXIBLE CONNECTION |
| | FLOW METER |
| | 90° ELBOW |
| | 45° ELBOW |
| | REDUCER |
| | CONCENTRIC REDUCER |
| | ECCENTRIC REDUCER |
| | LATERAL STRAINER WITH BLOW-OFF VALVE, PROVIDE HOSE END WITH CAP WHERE DISCHARGE IS NOT PIPED TO DRAIN THERMOMETER 0-100°F |
| | THERMOSTAT |
| | NIGHT THERMOSTAT |
| | SENSOR |
| | STEAM TRAP, F&T=FLOAT & THERMOSTATIC B=BUCKET, T=THERMOSTATIC |
| | DUCT SMOKE DETECTOR |
| | ARROW INDICATES DIRECTION OF FLOW IN PIPE |
| | LEADER INDICATES DOWNWARD SLOPE |
| | PIPE INTO PLANE |
| | PIPE OUT OF PLANE |
| | PIPE BRANCH – IN TO PLANE |
| | PIPE BRANCH – OUT OF PLANE |
| | PIPE BRANCH – IN PLANE |

| | |
|--|---|
| | NRS GATE VALVE WITH SUPERVISION |
| | FLOW SWITCH |
| | HOSE VALVE |
| | ROOF DRAIN |
| | ROOF DRAIN OVERFLOW |
| | CLEAN-OUT |
| | FLOOR CLEAN-OUT OR CLEAN-OUT TO GRADE |
| | VENT THRU ROOF |
| | DOMESTIC COLD WATER (DCW) |
| | DOMESTIC HOT WATER (DHW) |
| | DOMESTIC HOT WATER RETURN (DHW) |
| | SEWER (BELOW GRADE) |
| | SEWER (ABOVE GRADE) |
| | VENT (SEWER) |
| | PLUMBING FIXTURES |
| | POINT OF CONNECTION |
| | SECTION TAG – TOP FIGURE IS SECTION NO. BOTTOM FIGURE IS SHEET NO. |
| | DETAIL TAG – TOP FIGURE IS DETAIL NO. BOTTOM FIGURE IS SHEET NO. |
| | EQUIPMENT IDENTIFICATION |
| | KEYED NOTE IDENTIFICATION |
| | SOFT DOMESTIC WATER (SW) |
| | ACID WASTE |
| | ACID VENT |
| | HIGH PRESSURE DOMESTIC WATER |
| | REVERSE OSMOSIS WATER SUPPLY |
| | REVERSE OSMOSIS WATER RETURN |
| | MEDICAL OXYGEN |
| | MEDICAL OXYGEN AT PRESSURE INDICATED |
| | MEDICAL AIR |
| | MEDICAL AIR AT PRESSURE INDICATED |
| | MEDICAL VACUUM |
| | NITROGEN |
| | NITROUS OXIDE |
| | CARBON DIOXIDE |
| | INSTRUMENT AIR |
| | INSTRUMENT AIR AT PRESSURE INDICATED |
| | COMPRESSED AIR |
| | LAB AIR |
| | LAB VACUUM |
| | BRINE |
| | FIXTURE FROM LEVEL ABOVE |



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Intermountain Healthcare
IMC- Cath Lab 1 Remodel Project

NJRA Project # 20205
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MECHANICAL
SYMBOLS AND
LEGEND

M000

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MEDICAL GAS GENERAL NOTES

- MEDICAL GAS PIPING IS TO BE RUN ABOVE THE CEILING, UNLESS NOTED OTHERWISE. COORDINATE PIPING ROUTING WITH ALL OTHER POSSIBLE CONFLICTS SUCH AS DUCTWORK, DIFFUSERS, OTHER PIPING, LIGHTS, CONDUIT, STRUCTURE, ETC.
- ALL PIPE AND DUCT SIZES SHALL REMAIN THE SAME SIZE SHOWN, IN THE DIRECTION OF FLOW, UNTIL SHOWN OTHERWISE.
- SLEEVE PIPING THRU WALLS/FOUNDATIONS WHERE REQUIRED.
- MEDICAL GAS PIPING IS SCHEMATIC IN NATURE. FIELD VERIFY EXACT PIPE ROUTING AND COORDINATE WITH ALL OTHER TRADES.
- NO PIPING TO RUN OVER ELECTRICAL PANELS, VFD'S OR MCC'S. PROTECT EQUIPMENT WITH A 42" DEEP ZONE IN FRONT OF PANELS, VFD'S, AND MCC'S.
- MOUNT ALL SERVICE VALVES NEAR CEILING HEIGHT FOR ACCESSIBILITY.
- PIPING BEING DISCONNECTED AND REMOVED SHALL BE REMOVED BACK TO AN ACTIVE MAIN. NO DEAD LEGS SHALL BE ALLOWED.

FIRE PROTECTION GENERAL NOTES

- CONTRACTOR SHALL REMOVE AND REROUTE ALL FIRE SUPPRESSION PIPING AS NECESSARY TO ACCOMMODATE ROUTING OF MECHANICAL DUCTWORK AND PIPE. PLUMBING LINES, ESPECIALLY WASTE AND VENT PIPING, AND OTHER DISCIPLINES AS NECESSARY TO COMPLETE THE PROJECT.
- NO FIRE PROTECTION LINE SHALL BE DESIGNED OR INSTALLED PRIOR TO CLOSE COORDINATION WITH ALL OTHER DISCIPLINES. DUCTWORK, MECHANICAL PIPING AND PLUMBING TAKE SPACE PRECEDENCE OVER FIRE PROTECTION PIPING. FAILURE TO COMPLY WILL RESULT IN THE FIRE PROTECTION REMOVAL AND REINSTALLATION AT THE FIRE PROTECTION CONTRACTORS EXPENSE.
- ALL WORK DONE SHALL BE PERFORMED WITH WATER CONTROL IN MIND. CONTAINMENT OF WATER IS NECESSARY TO PREVENT WATER FROM DAMAGING SURROUNDING AREA.
- COORDINATE EXACT LOCATION OF PIPING WITH STRUCTURAL MEMBERS, LIGHTS, REFLECTED CEILING PLANS, CABLE TRAY, ELECTRICAL CONDUITS, DUCTWORK, MECHANICAL AND PLUMBING PIPING, AND ALL OTHER TRADES AND ALL EXISTING CONDITIONS.
- ALL NEW SPRINKLERS ARE TO BE QUICK RESPONSE, FLAT PLATE CONCEALED WITH A WHITE COVER PLATE. CLEAN ROOM SPRINKLERS ARE TO BE LISTED FOR USE IN CLEAN ROOMS.

PLUMBING GENERAL NOTES

- UNLESS OTHERWISE NOTED, SLOPE PIPE AS FOLLOWS: WASTE BRANCHES: 1/4" PER FOOT; WASTE MAINS: 1/4" PER FOOT; ROOF DRAIN/ROOF DRAIN OVERFLOW: 1/8" PER FOOT.
- ALL WORK DONE SHALL BE PERFORMED WITH WATER CONTROL IN MIND. CONTAINMENT OF WATER IS NECESSARY TO PREVENT WATER FROM DAMAGING AREAS ON FLOORS BELOW.
- PLUMBING DRAWINGS ARE SCHEMATIC IN NATURE. FIELD VERIFY EXACT PIPE ROUTING AND COORDINATE WITH ALL OTHER TRADES.
- ALL PIPING IN PLUMBING CHASES SHALL BE ARRANGED TO ALLOW MAINTENANCE ACCESS.
- NO PIPING TO RUN OVER ELECTRICAL PANELS, VFD'S OR MCC'S. PROTECT EQUIPMENT WITH A 42" DEEP ZONE IN FRONT OF PANELS, VFD'S, AND MCC'S.
- COORDINATE FAN ROOM FLOOR DRAIN AND FLOOR SINK LOCATIONS WITH COOLING COIL, EVAPORATIVE SECTION, AND HEATING COIL LOCATIONS.
- CONTRACTOR TO PROVIDE VALVE IDENTIFICATION AND LOCATION ON ALL CEILING TILES WHERE VALVES ARE LOCATED.
- PIPING AND ROUTING SHOWN, INCLUDING ALL BELOW FLOOR DECK PIPING, IS APPROXIMATE. IT IS UP TO THE CONTRACTOR TO FIELD VERIFY THE EXACT LOCATION AND SIZE OF ALL PIPING.
- REFER TO ARCHITECTURAL DRAWINGS FOR FIXTURE MOUNTING HEIGHTS, DIMENSIONS, AND OTHER REQUIREMENTS.
- CONTRACTOR TO VERIFY CONNECTION SIDE OF ADA FIXTURES AND ADJUST ACCORDINGLY. INSTALL FLUSH VALVES HANDLES ON WIDE SIDE OF ALL FIXTURES.
- LOCATE ALL VENTS MINIMUM 25' AWAY FROM AIR INTAKES.
- INSTALL ALL DOMESTIC WATER LINES BELOW DUCTWORK.
- INSTALL A 24" X 24" ACCESS DOOR BELOW ALL ISOLATION VALVES, BALANCING VALVES AND WATER HAMMER ARRESTORS WHERE MOUNTED ABOVE HARD CEILINGS.
- MOUNT ALL ISOLATION VALVES, CONTROL VALVES, BALANCING VALVES, ETC. NEAR CEILING HEIGHT FOR ACCESSIBILITY.
- INSTALL ALL EQUIPMENT WITH SUFFICIENT CLEARANCE FOR MAINTENANCE PER MANUFACTURERS RECOMMENDATION.
- COORDINATE ALL FLOOR PENETRATIONS WITH STRUCTURAL AND PROVIDE SLEEVES AS NECESSARY.
- COORDINATE EXACT LOCATION OF PLUMBING WITH STRUCTURAL MEMBERS, LIGHTS, REFLECTED CEILING, CABLE TRAY, DUCTWORK, MECHANICAL PIPING, MEDICAL GASES, FIRE PROTECTION AND OTHER TRADES, TYPICAL.
- COORDINATE THE LOCATION OF THE FLOOR DRAIN, SHOWER DRAIN, OR FLOOR SINK WITH ARCHITECTURAL AND STRUCTURAL, TYPICAL.
- ACCESS DOORS SHALL BE PROVIDED TO ALL WATER HAMMER ARRESTORS IN WALLS OR ABOVE CEILINGS.
- SEE PLUMBING FIXTURE SCHEDULE FOR PIPE SIZES OF WASTE, VENT AND DOMESTIC WATER TO/FROM SINGLE FIXTURE.
- HOSE BIBBS SHOWN AT LAVATORIES ARE TO BE MOUNTED AT AN ACCESSIBLE LOCATION UNDER THE LAVATORY.
- COORDINATE EXACT LOCATION OF PLUMBING PIPING WITH STRUCTURAL MEMBERS, LIGHTS, REFLECTED CEILING PLANS, CABLE TRAY, ELECTRICAL CONDUITS, DUCTWORK, MECHANICAL AND FIRE PROTECTION PIPING, AND ALL OTHER TRADES AND ALL EXISTING CONDITIONS.
- LOCATE CIRCUIT SETTERS, VALVES, WATER HAMMER ARRESTORS, ETC. IN ACCESSIBLE LOCATIONS. PROVIDE 24"X24" ACCESS PANEL WHERE ITEM IS LOCATED ABOVE A HARD CEILING.
- ALL PIPE AND DUCT SIZES SHALL REMAIN THE SAME SIZE SHOWN, IN THE DIRECTION OF FLOW, UNTIL SHOWN OTHERWISE.
- INSTALL CLEANOUTS IN DRAIN PIPING AS INDICATED, AND WHERE NOT INDICATED, ACCORDING TO THE FOLLOWING.
 - SIZE SAME AS DRAINAGE PIPING UP TO 4" NPS. USE 4" NPS FOR LARGER. DRAINAGE PIPING UNLESS LARGER CLEANOUT IS INDICATED.
 - LOCATE AT MINIMUM INTERVALS OF 50 FT FOR PIPING 4" NPS AND SMALLER AND 100 FT FOR LARGER PIPING.
 - LOCATE AT THE BASE OF EACH VERTICAL STACK.
- PIPING BEING DISCONNECTED AND REMOVED SHALL BE REMOVED BACK TO AN ACTIVE MAIN. NO DEAD LEGS SHALL BE ALLOWED.

MECHANICAL PIPING GENERAL NOTES

- PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE PIPING SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS REQUIRED BY CODE.
- UNLESS OTHERWISE NOTED: ALL MECHANICAL PIPING IS OVERHEAD TO RUN ABOVE DUCTWORK AND TIGHT TO UNDERSIDE OF STRUCTURE.
- WHERE VALVING OR EQUIPMENT IS LOCATED ABOVE HARD CEILINGS PROVIDE AN ACCESS DOOR IN CEILING. MINIMUM ACCESS DOOR SIZE OF 24"X24".
- NO PIPING TO RUN OVER ELECTRICAL PANELS, VFD'S OR MCC'S. PROTECT EQUIPMENT WITH A 42" DEEP ZONE IN FRONT OF PANELS, VFD'S, AND MCC'S.
- SLEEVE PIPING THRU WALLS/FOUNDATIONS WHERE REQUIRED.
- INSTALL PIPING SO THAT ALL VALVES, STRAINERS, UNIONS, TRAPS, FLANGES, AND OTHER APPURTENANCES REQUIRING ACCESS ARE ACCESSIBLE.
- ALL VALVES SHALL BE INSTALLED SO THAT VALVE REMAINS IN SERVICE WHEN EQUIPMENT OR PIPING ON EQUIPMENT SIDE OF VALVE IS REMOVED.
- PROVIDE AN AIR VENT AT THE HIGH POINT OF EACH DROP IN THE HEATING AND CHILLED WATER PIPING SYSTEM.
- INSTALL ALL PIPING WITHOUT FORCING OR SPRINGING.
- ALL VALVES SHALL BE ADJUSTED FOR SMOOTH AND EASY OPERATION.
- PROVIDE ISOLATION VALVES AT EACH EXIT/ENTRANCE INTO SHAFT WHETHER OR NOT SHOWN.
- ALL PIPE AND DUCT SIZES SHALL REMAIN THE SAME SIZE SHOWN, IN THE DIRECTION OF FLOW, UNTIL SHOWN OTHERWISE.
- COORDINATE LOCATION OF THERMOSTAT WITH ARCHITECTURAL FURNISHING PLANS. MOUNT THERMOSTAT AT HEIGHT AS SPECIFIED ON ARCHITECTURAL.
- CONTRACTOR TO PROVIDE VALVE IDENTIFICATION AND LOCATION ON ALL CEILING TILES WHERE VALVES ARE LOCATED.
- PIPING BEING DISCONNECTED AND REMOVED SHALL BE REMOVED BACK TO AN ACTIVE MAIN. NO DEAD LEGS SHALL BE ALLOWED.

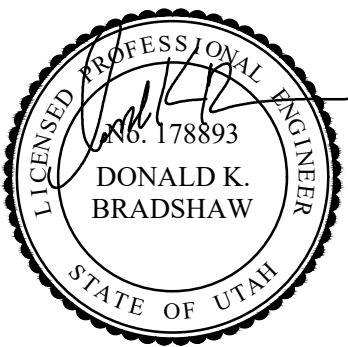
MECHANICAL GENERAL NOTES

- COORDINATE EXACT PLACEMENT OF DIFFUSERS, GRILLES, AND REGISTERS WITH ARCHITECTURAL REFLECTED CEILING PLAN, TYPICAL.
- SEE DETAIL FOR DIFFUSER CONNECTIONS TO DUCTWORK, TYPICAL.
- BRANCH DUCTWORK SHALL BE SIZED TO MATCH THE NECK INLET SIZE OF THE DIFFUSERS, REGISTER OR GRILLE IT SERVES UNLESS NOTED OTHERWISE, TYPICAL.
- COORDINATE EXACT MOUNTING LOCATION OF ALL THERMOSTATS WITH LATEST REVISION OF ARCHITECTURAL ELEVATION AND FURNISHINGS PLANS, TYPICAL.
- THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR CAULKING AND SEALING ALL PENETRATIONS IN FIRE AND SMOKE RATED PARTITIONS TO MAINTAIN RATINGS. SEE SPECIFICATION, TYPICAL.
- THE MECHANICAL CONTRACTOR SHALL PROVIDE FIRE, SMOKE OR COMBINATION FIRE/SMOKE DAMPERS AT ALL LOCATIONS SHOWN ON THE CONTRACT DOCUMENTS AND AS REQUIRED TO MEET THE INTEGRITY OF ALL SMOKE AND FIRE PARTITIONS. THE CONTRACTOR SHALL REFER TO THE LATEST ARCHITECTURAL LIFE SAFETY PLANS FOR ALL FIRE AND SMOKE PARTITION LOCATIONS. DAMPERS ARE TO BE PROVIDED WITH SHUTOFF/TEST SWITCH AT EACH LOCATION.
- PROVIDE AND INSTALL TURNING VANES IN ALL SQUARE LOW PRESSURE DUCTWORK AT ELBOWS OR TEES, TYPICAL.
- INSTALL ALL TERMINAL BOXES IN EASILY ACCESSIBLE AND SERVICEABLE LOCATIONS, MEETING ALL MANUFACTURERS REQUIRED CLEARANCES ON EACH SIDE. SEE DETAILS, TYPICAL.
- CONTRACTOR SHALL OFF-SET, TRANSITION AND PROVIDE CHANGES AS REQUIRED FOR COORDINATION WITH OTHER TRADES, TYPICAL.
- DUCTWORK SIZES SHOWN ARE INSIDE CLEAR DIMENSIONS. REFER TO MECHANICAL SPECIFICATIONS FOR EXTENT OF DUCT INSULATION AND LINER.
- PROVIDE AND INSTALL REMOTE DAMPER OPERATORS FOR ALL DAMPERS INSTALLED ABOVE INACCESSIBLE CEILINGS. SEE MECHANICAL SPECIFICATIONS FOR EQUIPMENT REQUIREMENTS, TYPICAL.
- PROVIDE AND INSTALL HIGH EFFICIENCY TAKE-OFF FITTINGS AND BALANCING DAMPER AT ALL BRANCH CONNECTIONS TO LOW PRESSURE DUCTWORK.
- PROVIDE AND INSTALL HIGH EFFICIENCY OR CONICAL TAKE-OFFS AT ALL BRANCH CONNECTIONS TO MEDIUM PRESSURE DUCTWORK.
- WHERE DUCTWORK CROSSES, SUPPLY DUCTWORK IS USUALLY BELOW RETURN AND EXHAUST DUCT. RETURN DUCTWORK IS USUALLY BELOW EXHAUST DUCTS.
- AT LOCATIONS WHERE DIFFUSERS OR GRILLES ARE UNDER DUCTWORK, CONTRACTOR TO FABRICATE TRANSITION BOOT FROM FLEX CONNECTION TO DIFFUSER OR GRILLE WITH BALANCING DAMPER, TYPICAL.
- THE MECHANICAL CONTRACTOR SHALL PROVIDE CEILING MOUNTED ACCESS DOORS FOR ALL FIRE, SMOKE AND COMBINATION FIRE/SMOKE DAMPERS INSTALLED ABOVE INACCESSIBLE CEILING. FIELD VERIFY EXACT INSTALLATION LOCATIONS PRIOR TO COMMENCING WORK AND COORDINATE INSTALLATIONS WITH LATEST ARCHITECTURAL REFLECTED CEILING PLANS.
- MECHANICAL CONTRACTOR SHALL ENSURE THAT ALL EQUIPMENT IS PROVIDED AND INSTALLED WITH CLEARANCES PER MANUFACTURERS RECOMMENDATIONS. THE CONTRACTOR SHALL MAINTAIN PROPER SERVICE SPACE FOR COIL PULLS, BAS DEVICES, MAINTENANCE ACCESS, ETC.
- ALL VAV BOXES TO HAVE REHEAT COILS, EXCEPT AS NOTED. PROVIDE A MINIMUM OF TWO DUCT DIAMETERS OF STRAIGHT ROUND DUCT TO INLET OF VAV BOX. BOX SHALL BE HARD CONNECTED (CONICAL) TO MEDIUM PRESSURE DUCT, TYPICAL.
- PROVIDE ACCESS DOORS TO ACCESS VAV BOX CONTROLS ABOVE HARD CEILINGS. PROVIDE MIN. 24" X 24".
- ALL PIPE AND DUCT SIZES SHALL REMAIN THE SAME SIZE SHOWN, IN THE DIRECTION OF FLOW, UNTIL SHOWN OTHERWISE.
- ALL DUCTWORK ABOVE HARD CEILINGS SHALL BE EXTENDED ALL THE WAY TO THE SUPPLY DIFFUSERS, RETURN GRILLS OR EXHAUST GRILLS WHETHER OR NOT HARD DUCT OR FLEX DUCT IS SHOWN ON PLANS. FLEX DUCT WILL NOT BE ALLOWED TO DIFFUSERS OR GRILLS ABOVE HARD CEILINGS. FLEX DUCT WILL BE REQUIRED IN AREAS ABOVE T-BAR CEILINGS.
- NEW DUCTWORK, PIPING AND EQUIPMENT SHALL BE COORDINATED WITH STRUCTURE, LIGHTS, REFLECTED CEILING PLANS, CABLE TRAY, ELECTRICAL CONDUIT, PLUMBING, MECHANICAL AND FIRE PROTECTION PIPING, MEDICAL GASES, ALL OTHER TRADES AND ALL OTHER EXISTING CONDITIONS.
- THE CONTRACTOR SHALL INFORM THE DESIGNER OF ANY PROPOSED DEVIATIONS FROM THE CONTRACT DOCUMENTS.
- PROVIDE ACCESS TO ALL TEMPERATURE CONTROLS ABOVE CEILING. LOCATE IN ACCESSIBLE LOCATION. WHERE THERE ARE HARD CEILINGS THE CONTRACTOR SHALL PROVIDE 24"X24" ACCESS DOOR.
- UNLESS NOTED OTHERWISE, SUPPLY DIFFUSERS SHALL BE OF THE CD-1 TYPE, RETURN GRILLS SHALL BE OF THE RG-1 TYPE AND EXHAUST GRILLS SHALL BE OF THE EG-1 TYPE. REFER TO DIFFUSER SCHEDULE.



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MECHANICAL GENERAL NOTES

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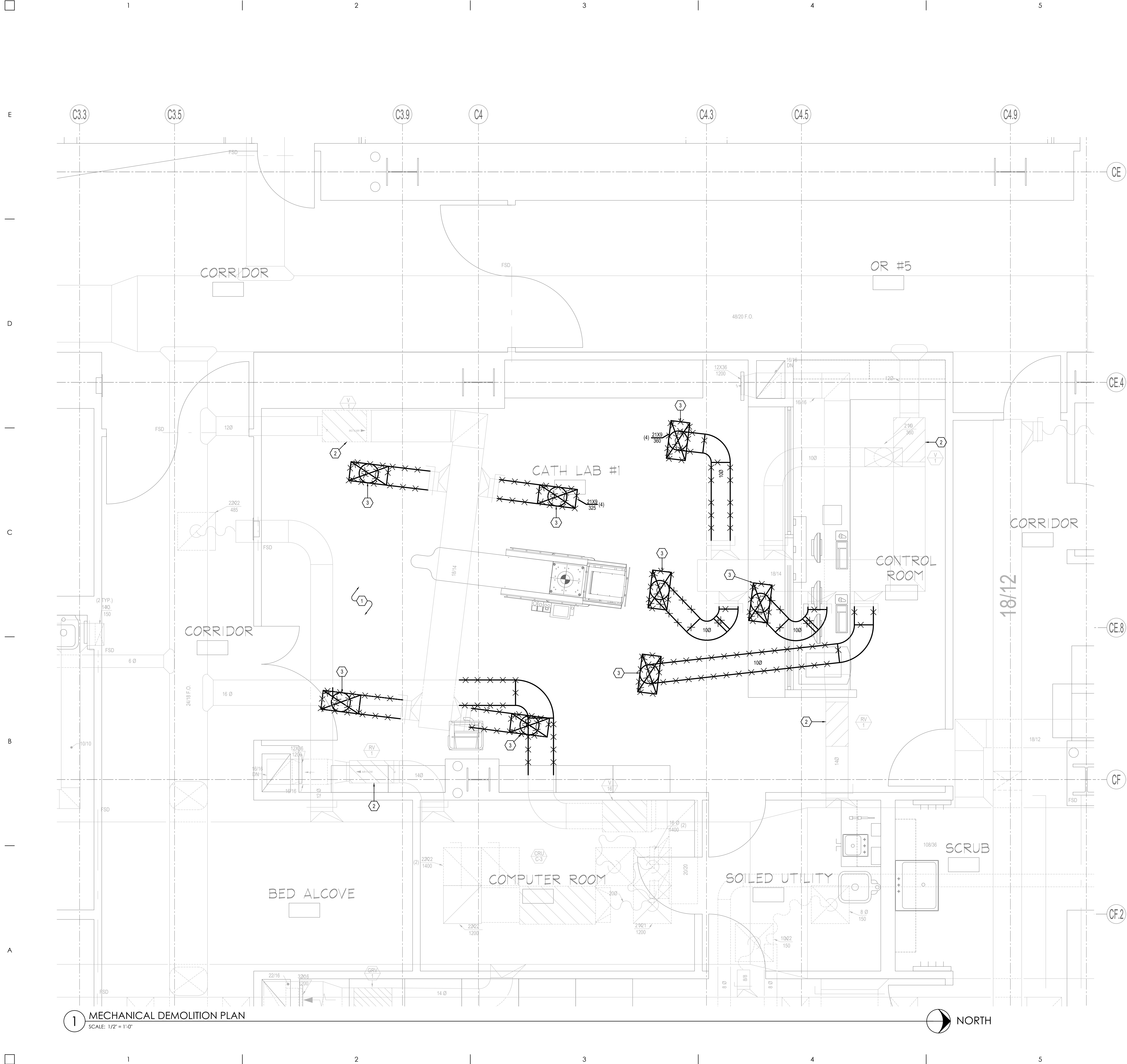
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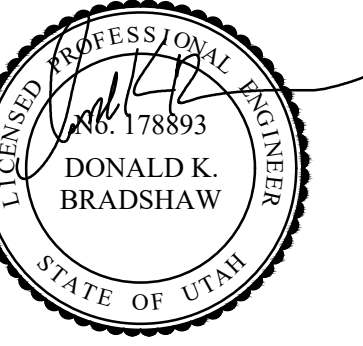
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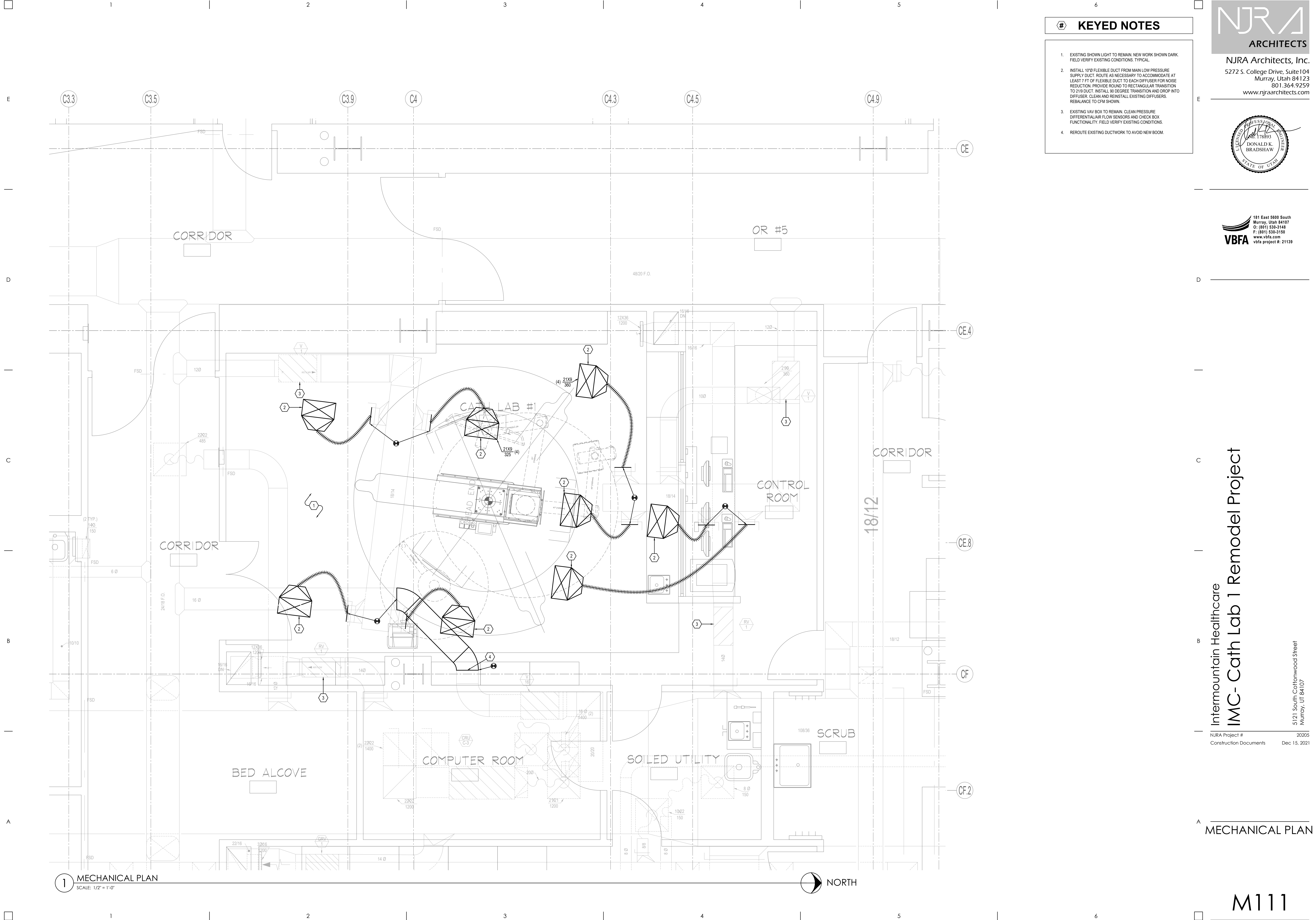
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MECHANICAL
DEMOLITION PLAN

M101

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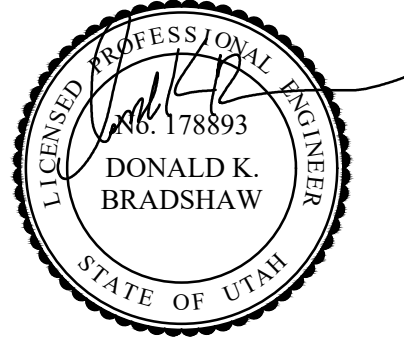
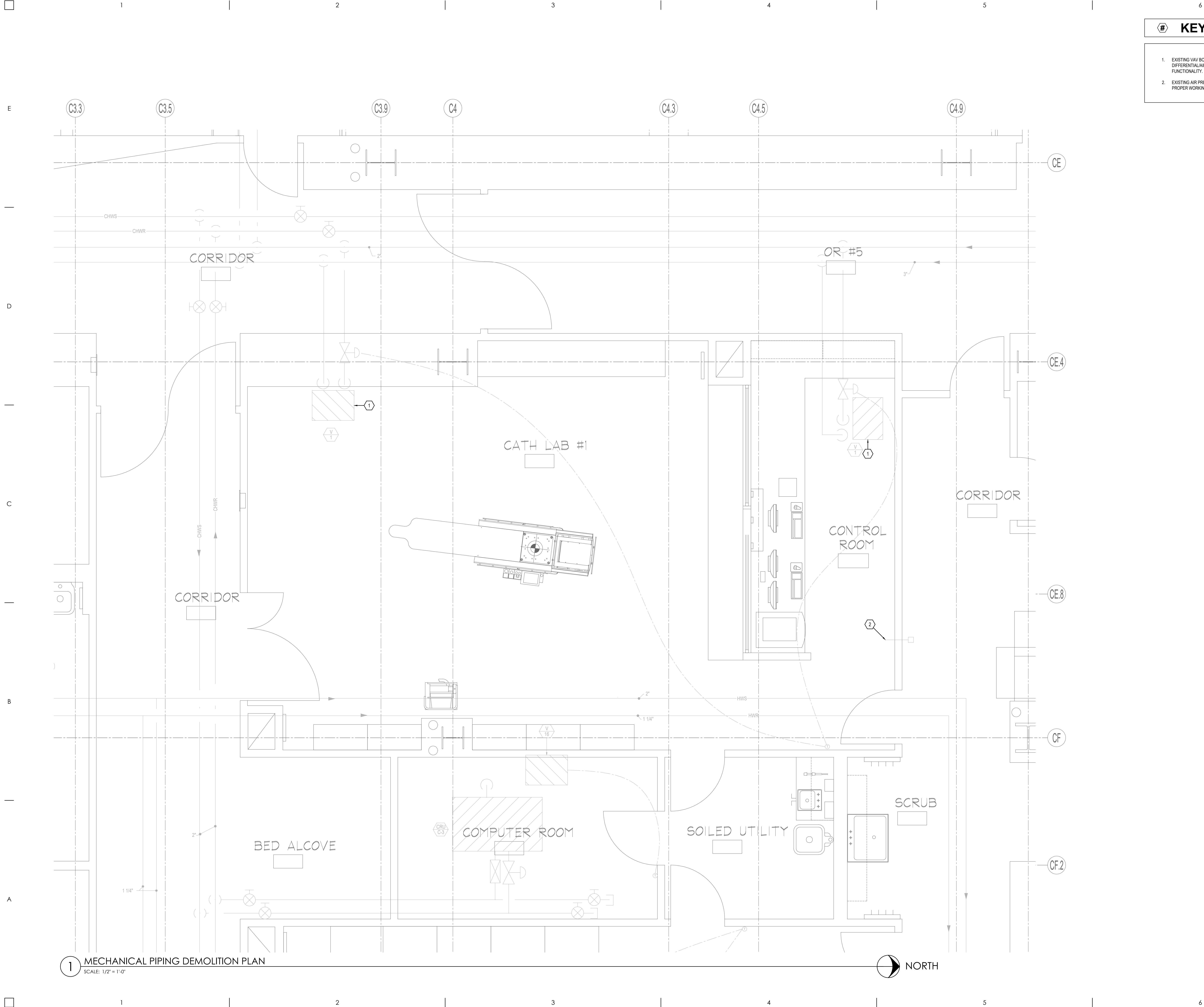
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MECHANICAL PLAN

M111

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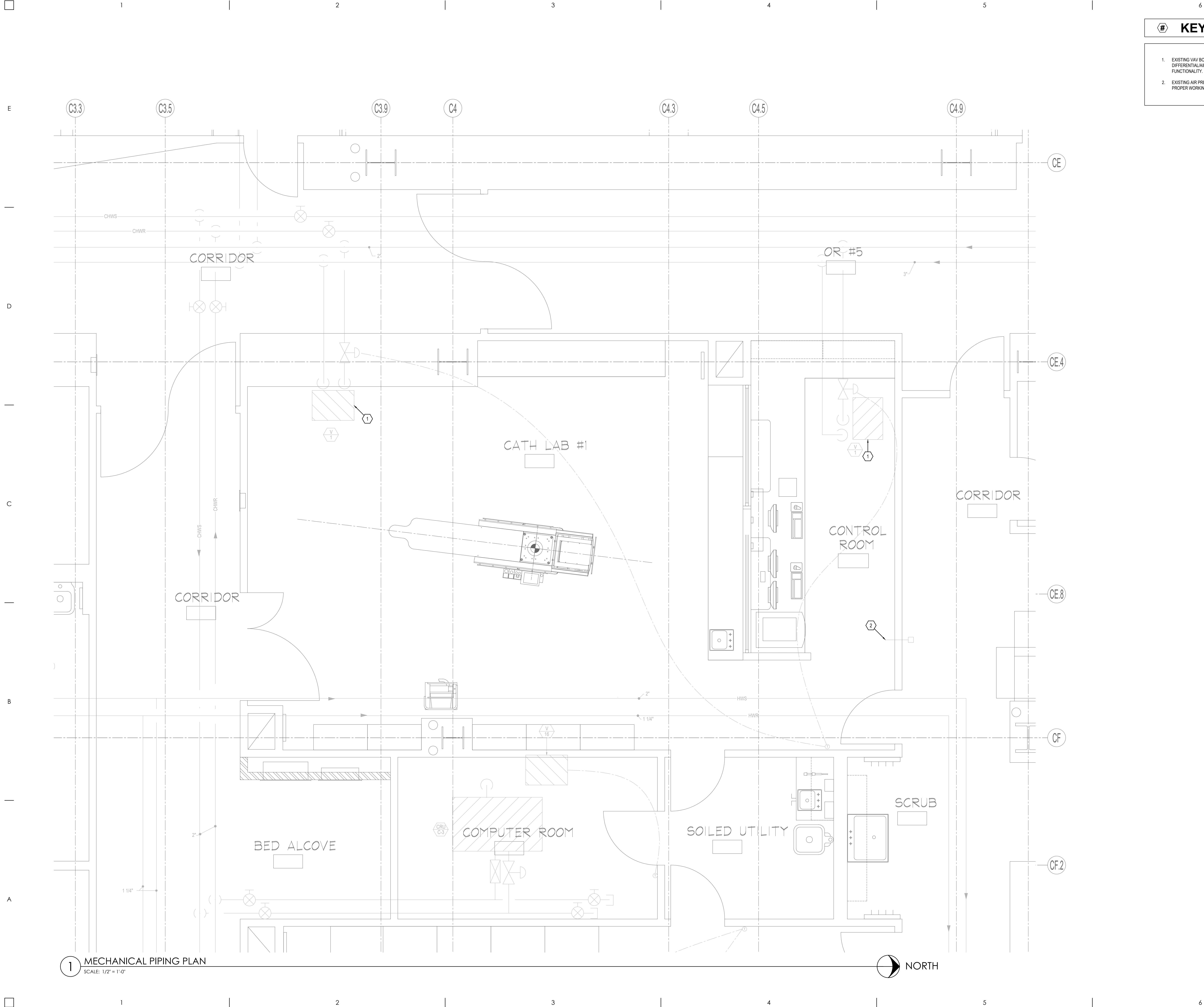


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**MECHANICAL
PIPING
DEMOLITION PLAN**

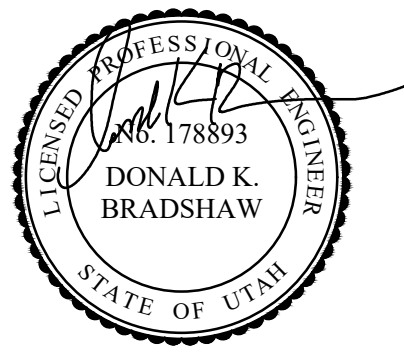
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- # KEYED NOTES
- EXISTING VAV BOX TO REMAIN. CLEAN PRESSURE DIFFERENTIAL/AIR FLOW SENSORS AND CHECK BOX FUNCTIONALITY. FIELD VERIFY EXISTING CONDITIONS.
 - EXISTING AIR PRESSURE MONITOR TO BE REUSED. VERIFY PROPER WORKING ORDER.

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MECHANICAL
PIPING PLAN

M211

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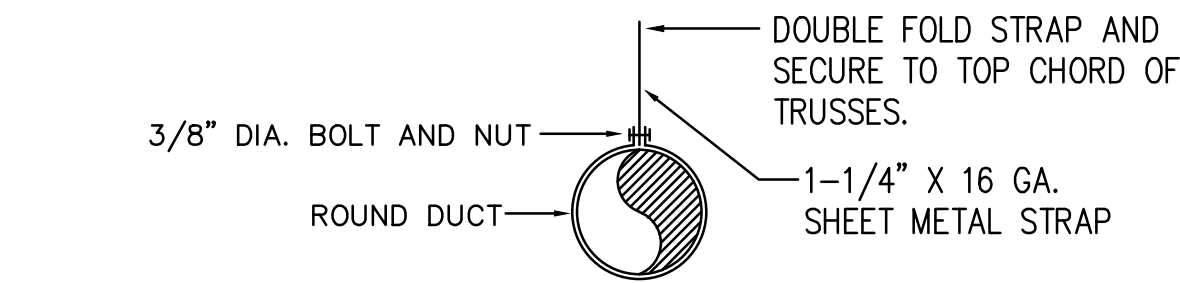
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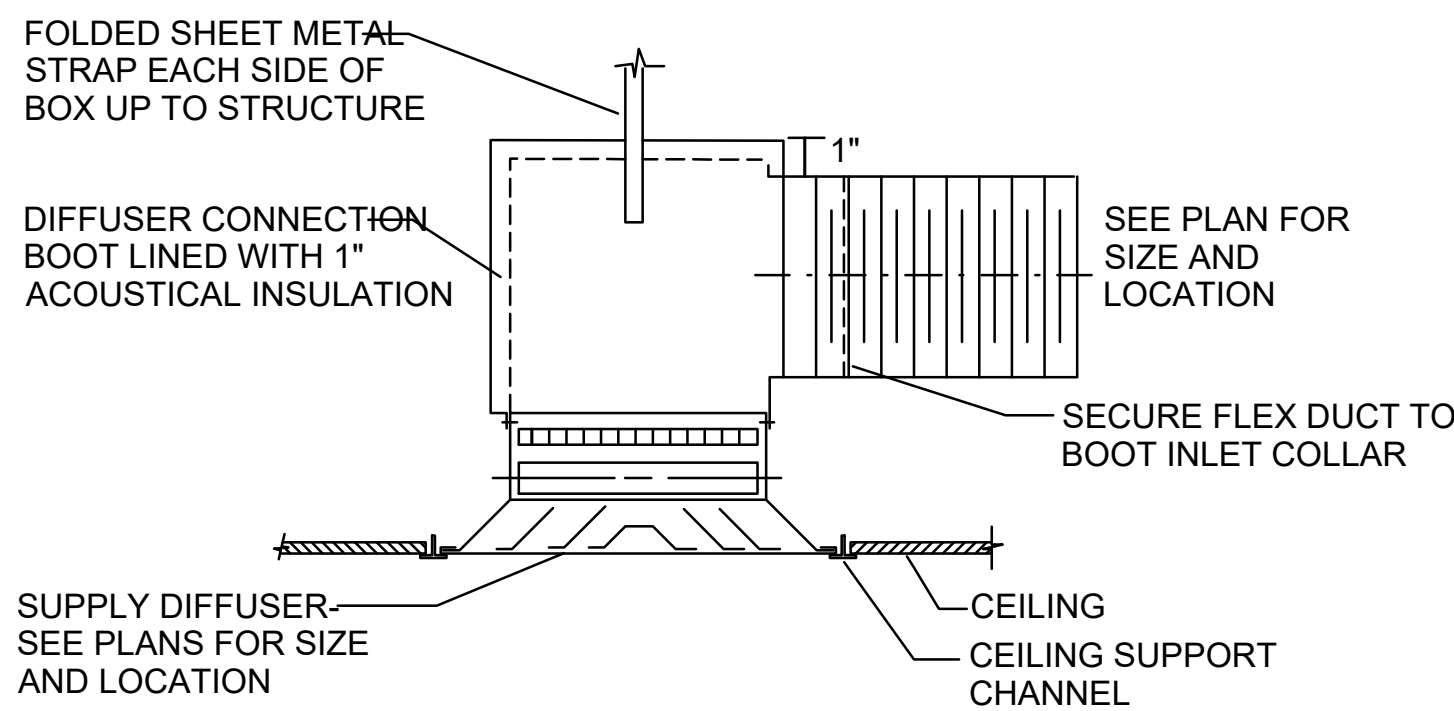


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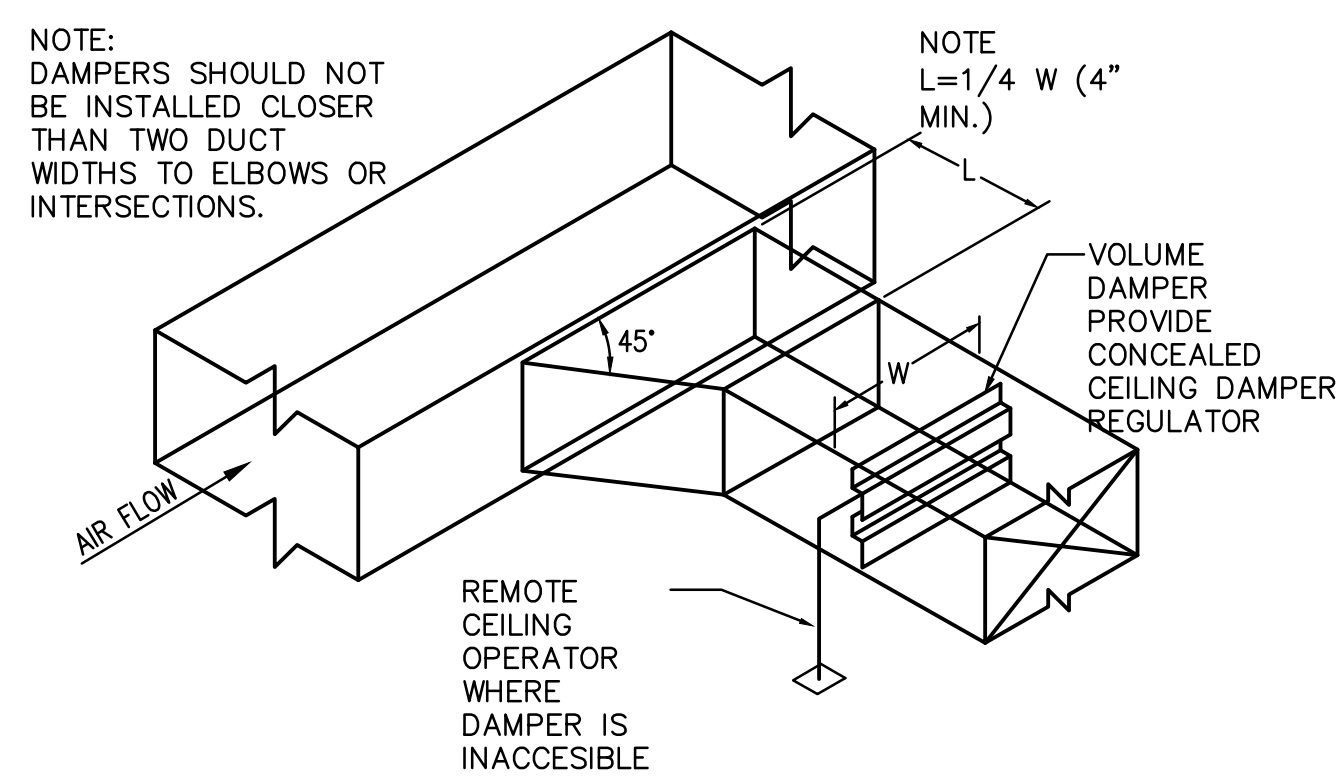


NOTE:
USE SPECIFIED SPACING AND NOT LESS THAN ONE
SUPPORT PER BRANCH.

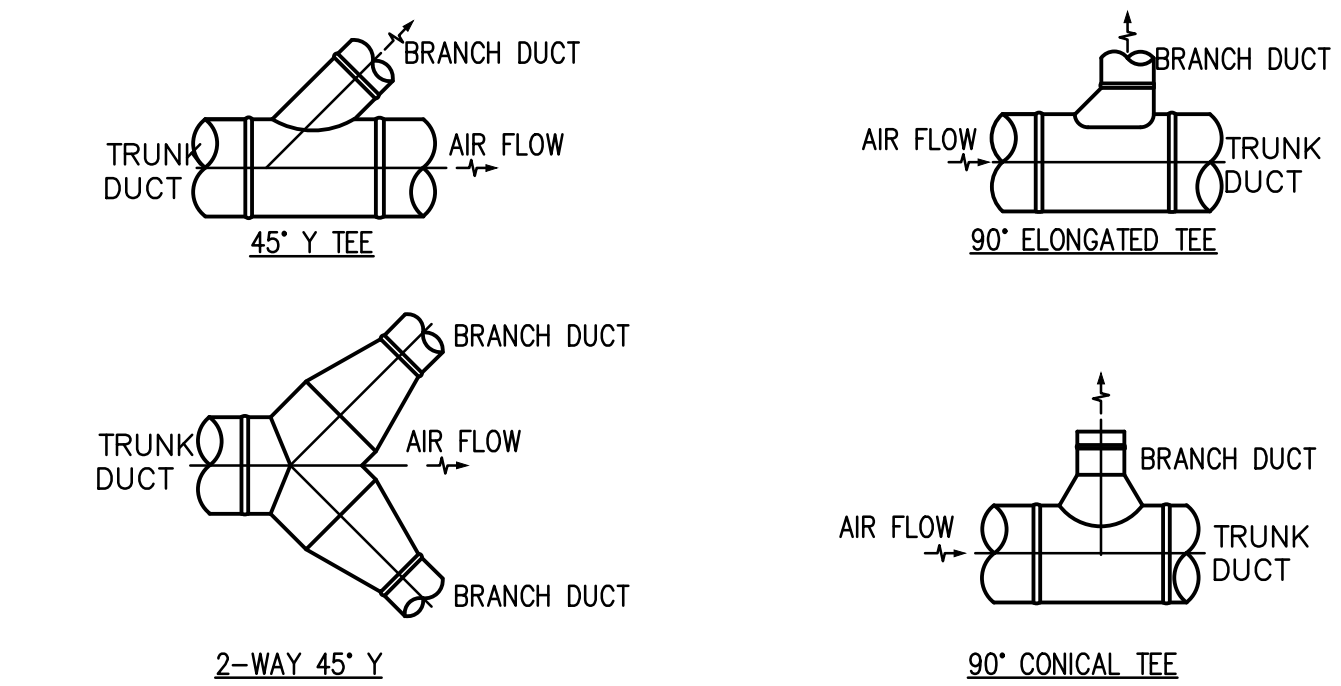
6 ROUND DUCT SUPPORT DETAIL
M501 NO SCALE



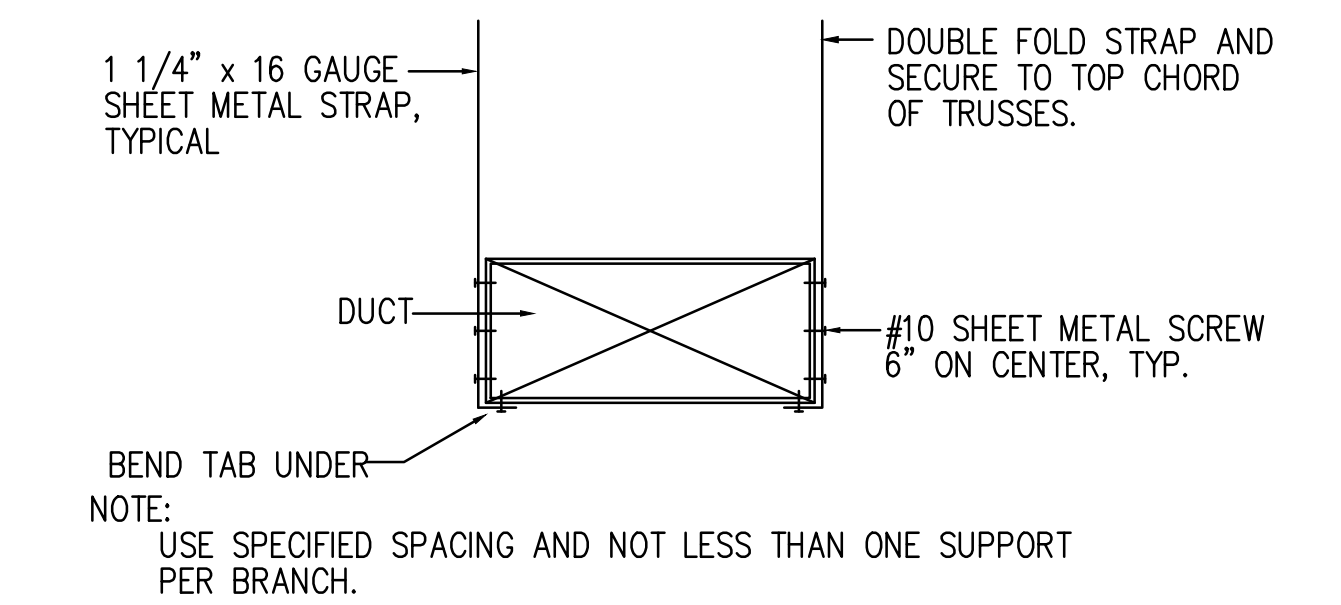
7 SUPPLY DIFFUSER W/ FLEX DUCT DETAIL
M501 NO SCALE



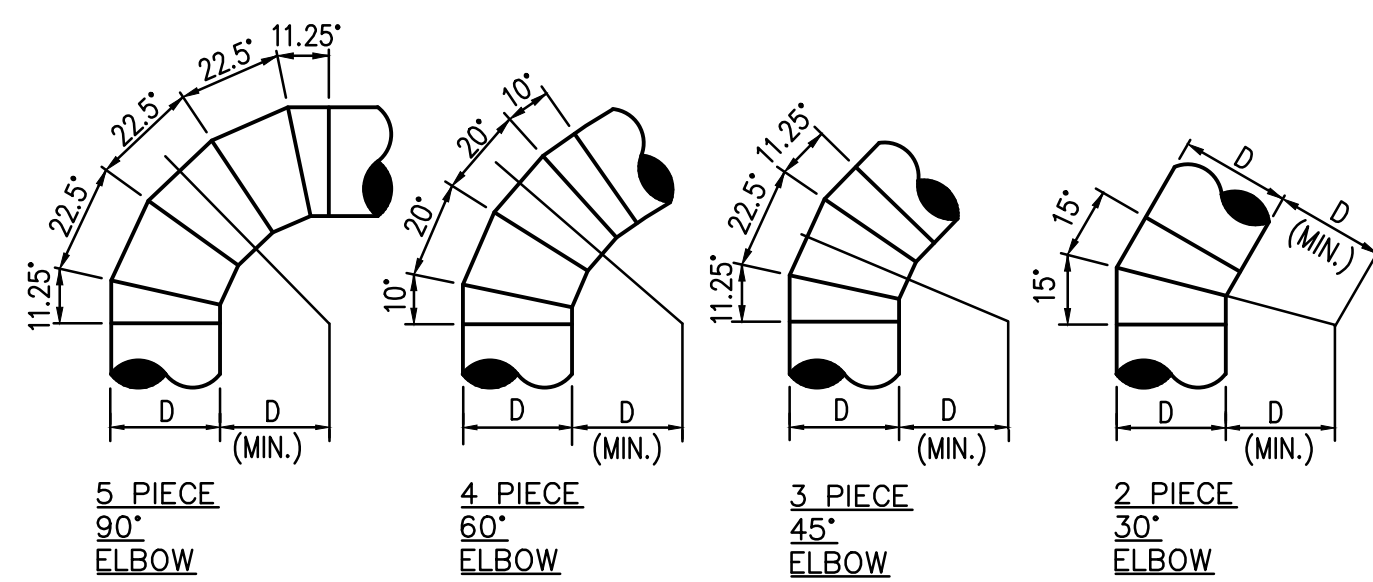
1 BRANCH DUCT TAKE-OFF & DAMPER DETAIL
M501 NO SCALE



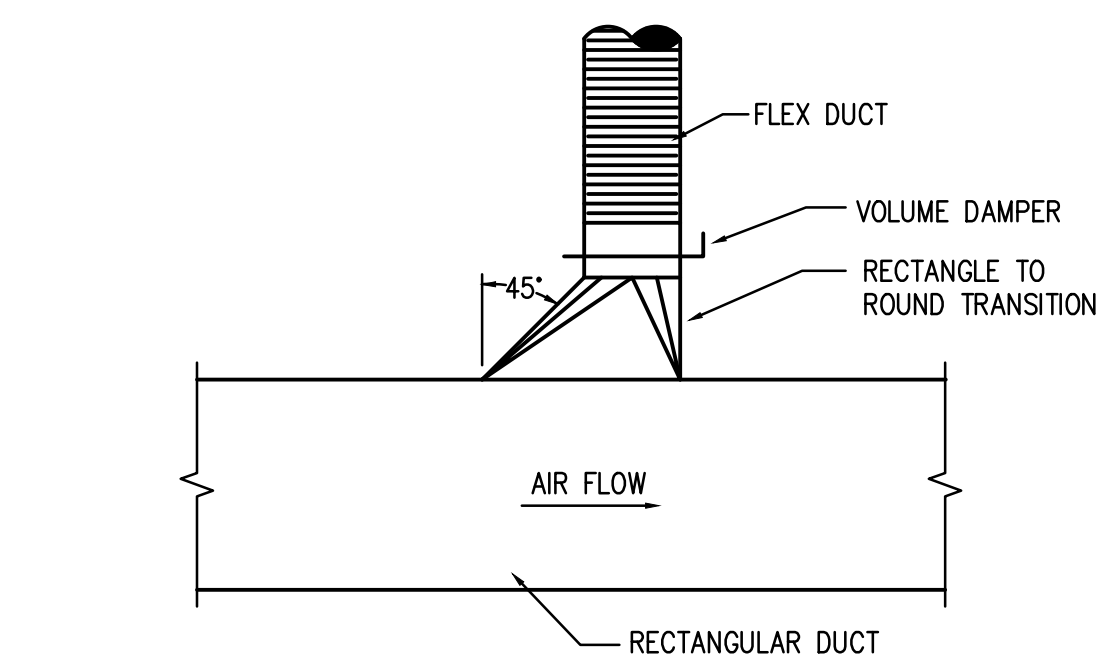
2 ROUND DUCT BRANCH TAKE-OFF DETAILS
M501 NO SCALE



3 RECTANGULAR DUCT SUPPORT
M501 NO SCALE



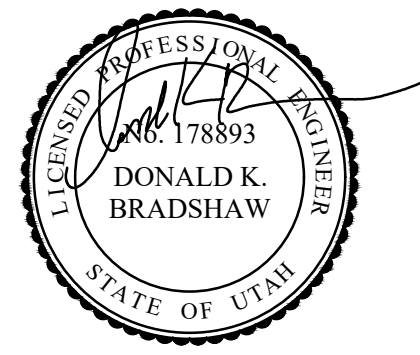
4 ROUND DUCT ELBOW DETAILS
M501 NO SCALE



5 HIGH EFFICIENCY TAKE-OFF DETAIL
M501 NO SCALE



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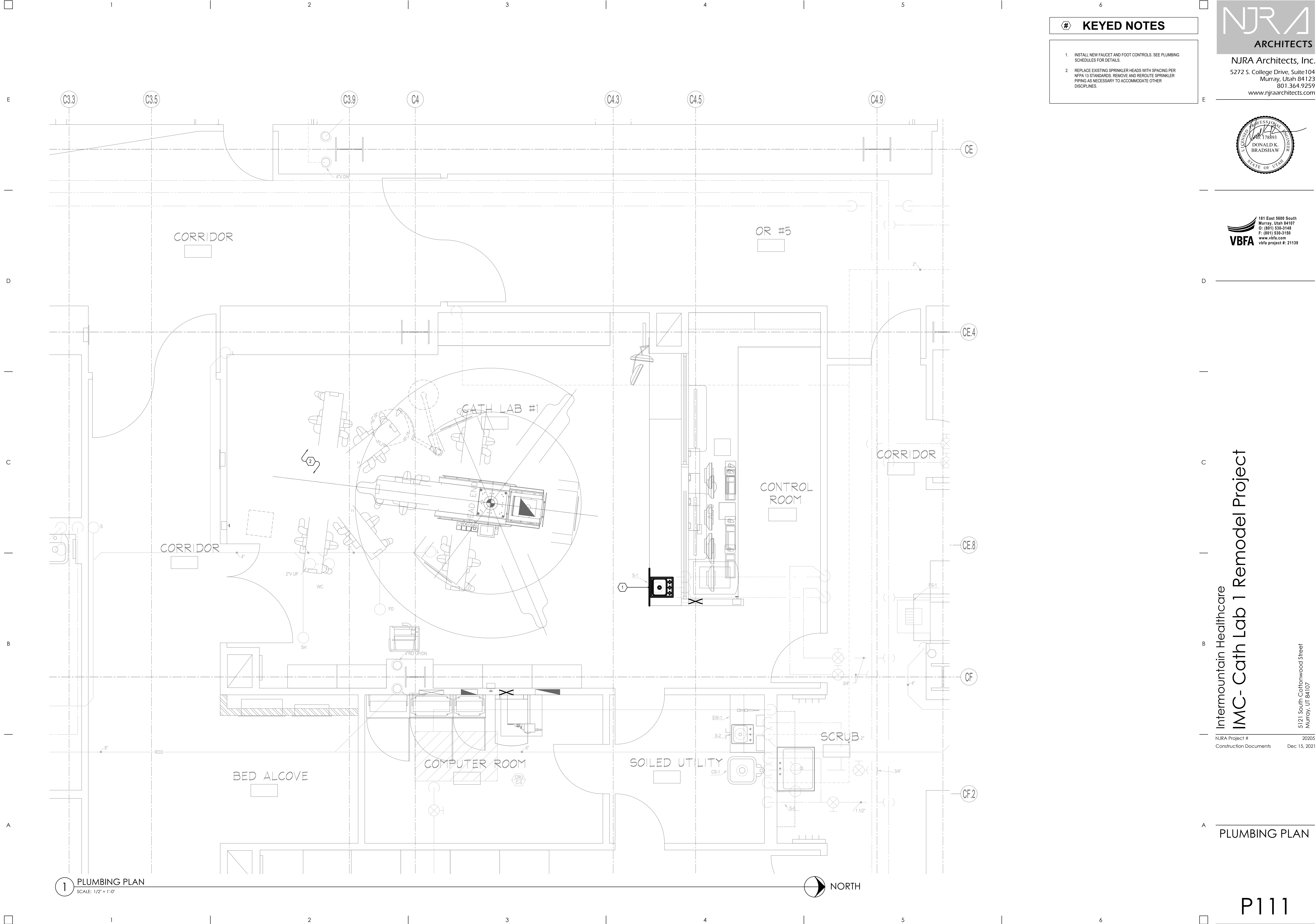
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MECHANICAL
DETAILS

M501

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1 PLUMBING PLAN
SCALE: 1/2" = 1'-0"

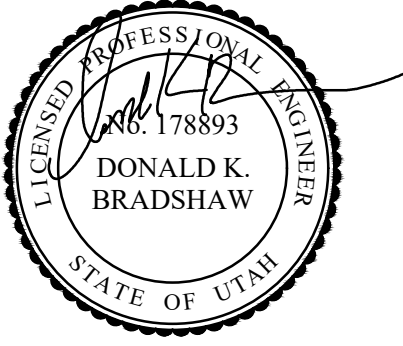
KEYED NOTES

1. INSTALL NEW FAUCET AND FOOT CONTROLS. SEE PLUMBING SCHEDULES FOR DETAILS.

2. REPLACE EXISTING SPRINKLER HEADS WITH SPACING PER NFPA 13 STANDARDS. REMOVE AND REROUTE SPRINKLER PIPING AS NECESSARY TO ACCOMMODATE OTHER DISCIPLINES.

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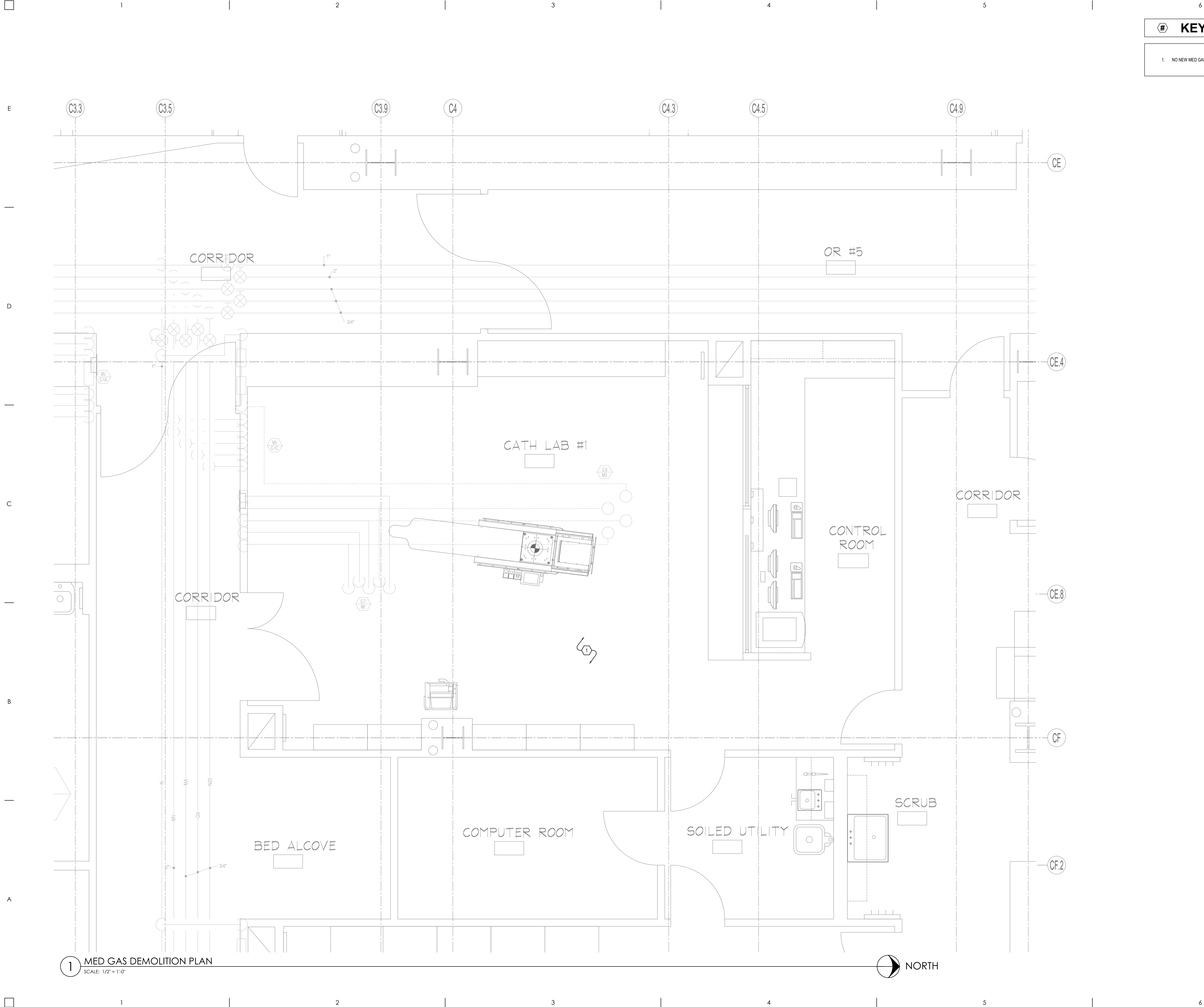
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PLUMBING PLAN

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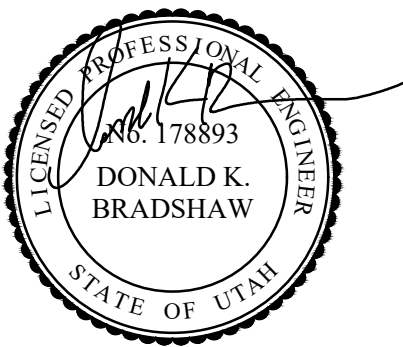


KEYED NOTES

1. NO NEW MED GAS WORK TO BE DONE.

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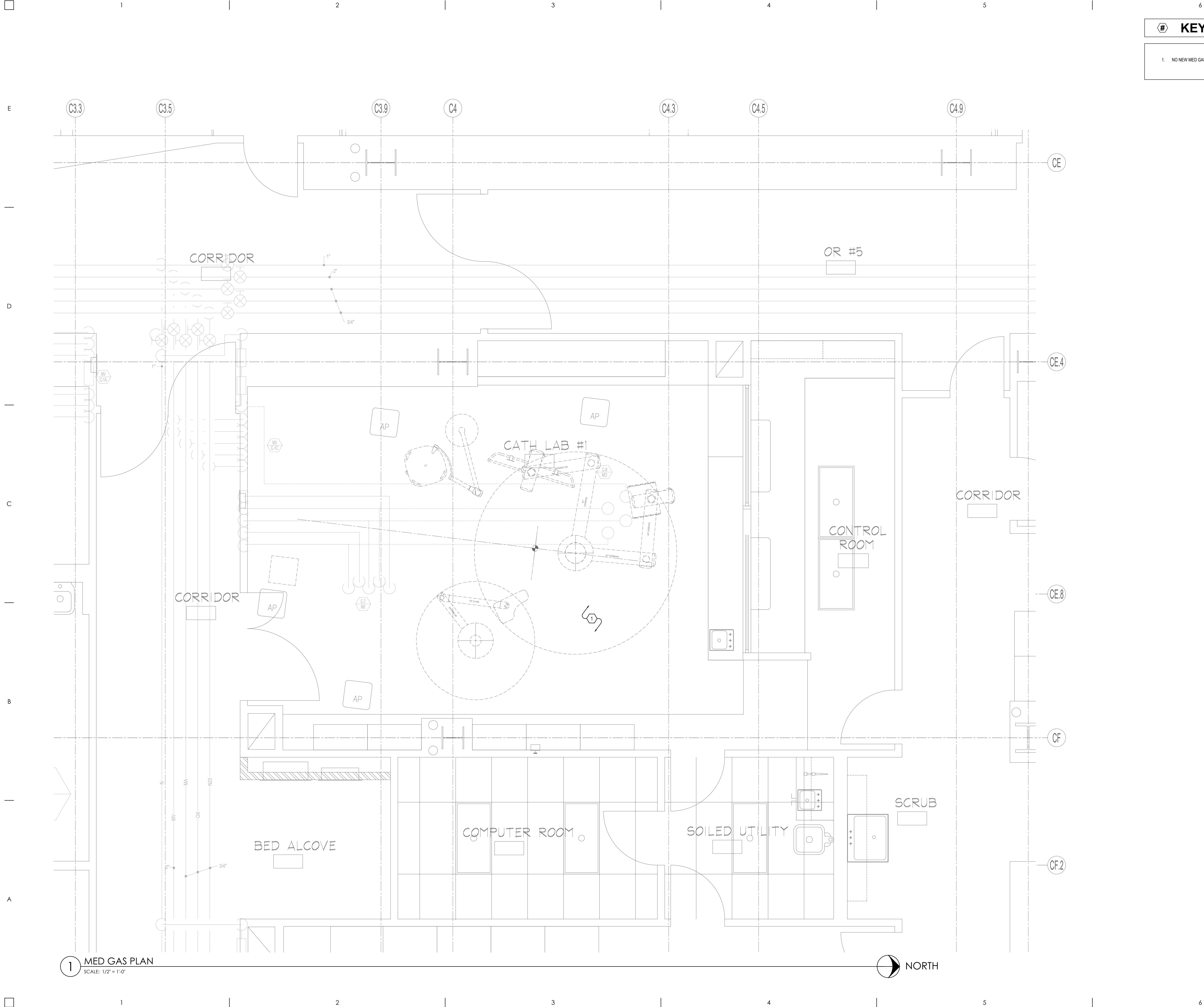
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MED GAS
DEMOLITION PLAN

12/14/2021 9:50:21 AM - N:\21\21100\21178\MC BLDG 5 LT CATH LAB #1\01_CADD\MEP\PLUMBING\21178-P211.DWG

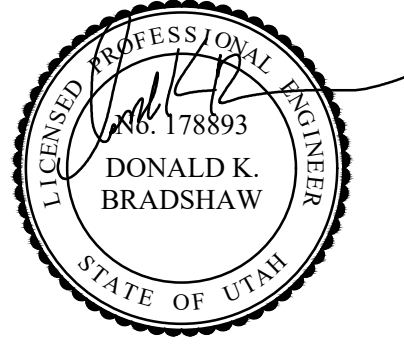


KEYED NOTES

1. NO NEW MED GAS WORK.



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vbfa project #: 21139

Intermountain Healthcare IMC- Cath Lab 1 Remodel Project

NJRA Project # 20205
Construction Documents Dec 15, 2021

5121 South Cottonwood Street
Murray, UT 84107

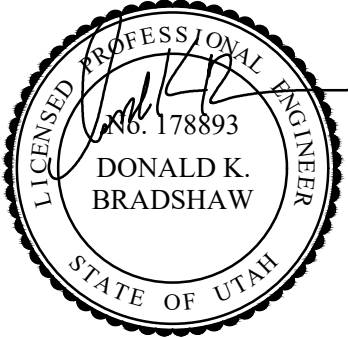
MED GAS PLAN

| PLUMBING FIXTURE SCHEDULE | | | | | | | |
|---------------------------|---------|------------|------------|-----------|-----------|------------------------|---|
| ID | FIXTURE | CW (IN) | HW (IN) | W (IN) | V (IN) | NOTES | SPECIFICATION |
| S-1 | SINK | 1/2 | 1/2 | 1 1/2 | 1 1/2 | SOLID SURFACE INTEGRAL | SINK: BASIN INTEGRAL TO SOLID SURFACE COUNTERTOP PROVIDED BY OTHERS. CHICAGO 626-GN8FCABCP DECK-MOUNTED REMOTE SPOUT WITH 1.5 GPM LAMINAR FLOW CONTROL INSERT IN SPOUT INLET. CHICAGO 625-LPSLO PEDAL VALVES WITH ADJUSTABLE SLO CLOSING CARTRIDGES, ADJUST TO CLOSE VALVE BETWEEN 1 AND 2 SECONDS OF FOOT PEDAL RELEASE. FLEXIBLE STAINLESS-STEEL SUPPLIES WITH LOOSE KEY ANGLE STOPS. CHICAGO 327-XCP DRAIN GRID STRAINER WASTE WITH TAILPIECE, PROVIDE WITH CAST BRASS P-TRAP WITH CLEAN-OUT PLUG. |
| | | | | | | | |

1. ALL UNDER GROUND WASTE AND VENT SHALL BE 2" OR GREATER PER DRAWINGS.



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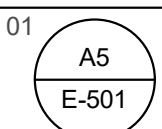
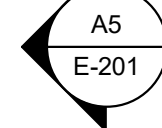

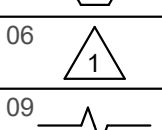
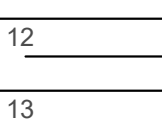
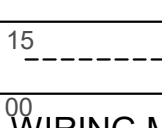
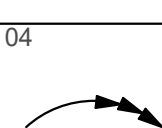
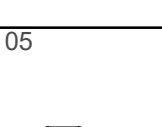
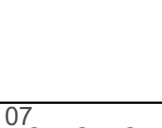
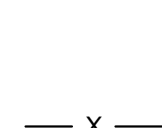
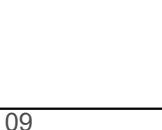
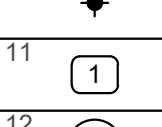
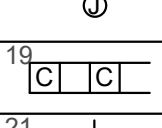
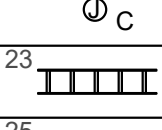
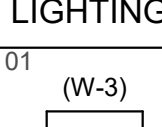
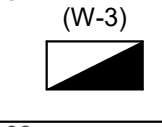
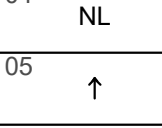
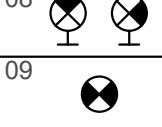
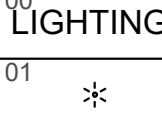

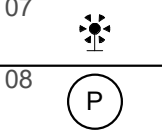
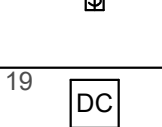

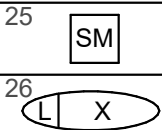

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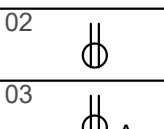
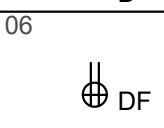
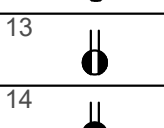
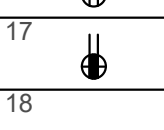
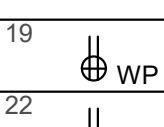
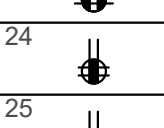
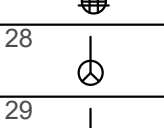
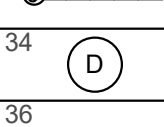
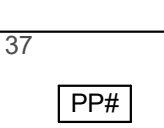
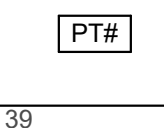
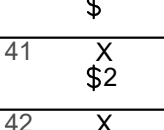
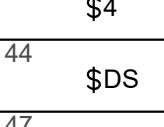
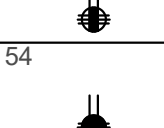
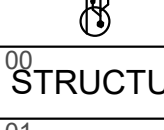

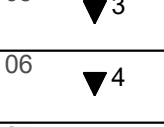
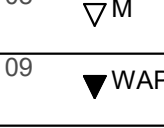

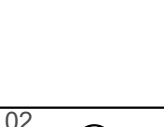
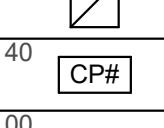
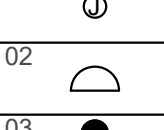
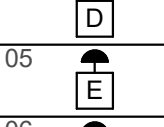
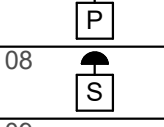
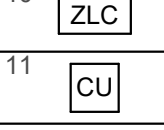

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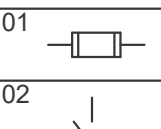
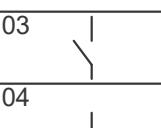
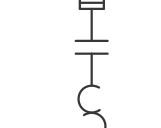
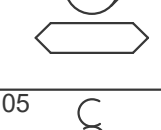
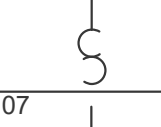
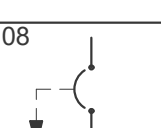
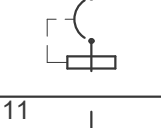
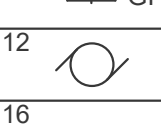
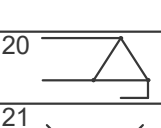
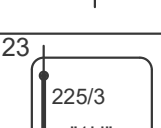
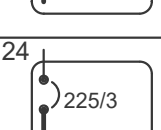
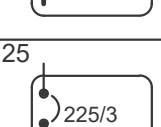
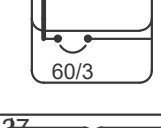
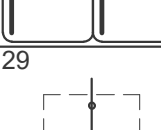
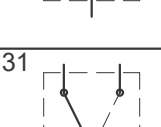
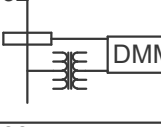
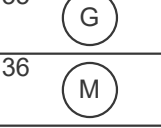
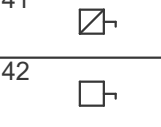
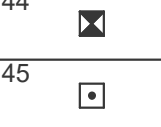
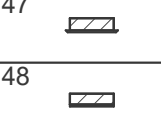

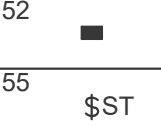



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






















































PLUMBING
SCHEDULES

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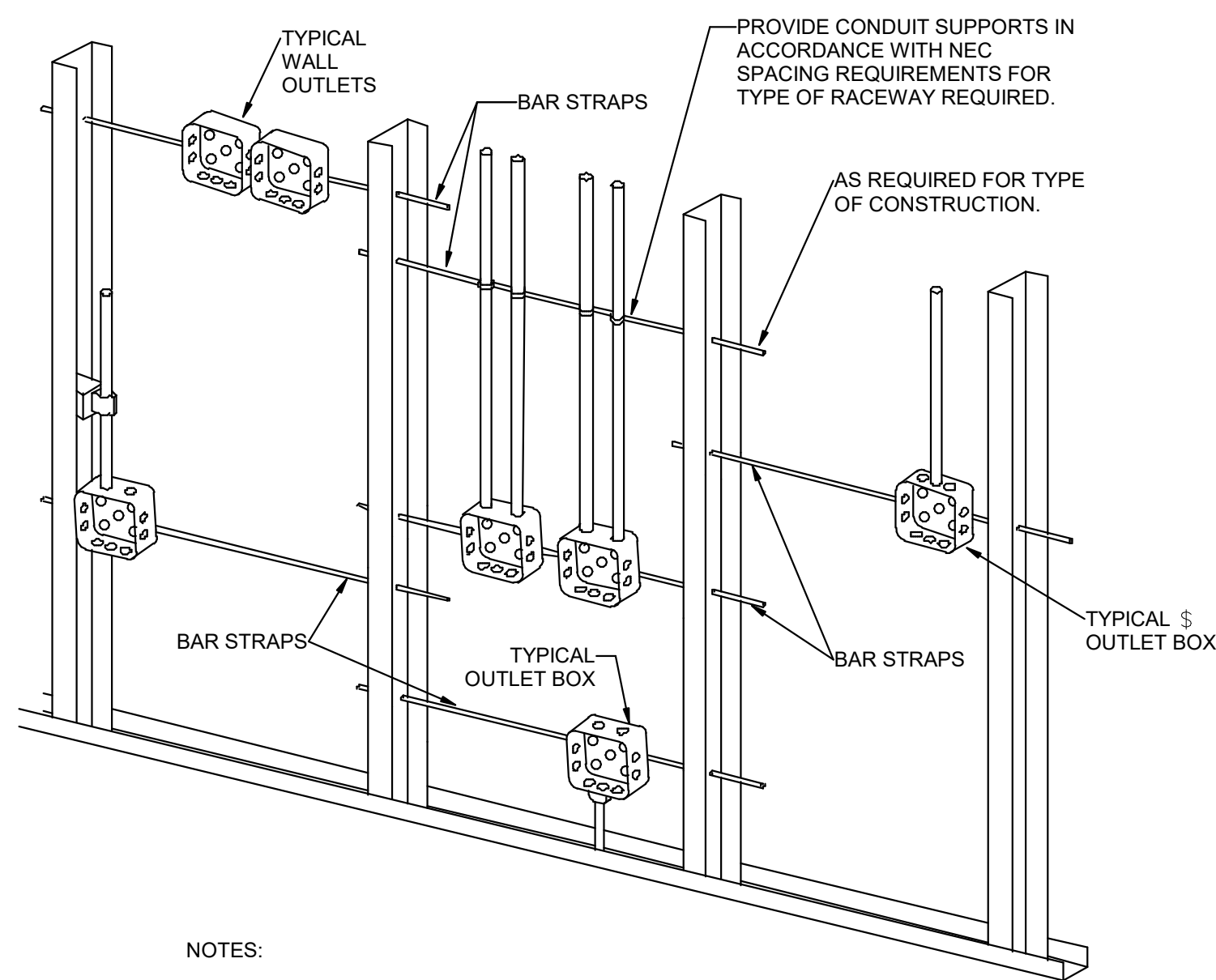
| SYMBOLS LEGEND | |
|---|--|
| SYMBOL | DESCRIPTION |
| REFERENCE AND LINE SYMBOLS | |
| 01  | DETAIL INDICATOR: A5 INDICATES DETAIL NUMBER, E-501 INDICATES DRAWING SHEET WHERE DETAIL IS SHOWN. |
| 02  | ELEVATION OR SECTION INDICATOR, EXTERIOR: A5 INDICATES ELEVATION OR SECTION NUMBER, E-201 INDICATES DRAWING SHEET WHERE ELEVATION OR SECTION IS SHOWN. |
| 03  | ELEVATION OR SECTION INDICATOR, INTERIOR: A5 INDICATES ELEVATION OR SECTION NUMBER, E-201 INDICATES DRAWING SHEET WHERE ELEVATION OR SECTION IS SHOWN. |
| 04  | ROOM IDENTIFIER WITH ROOM NAME AND NUMBER. |
| 05  | KEYNOTE INDICATOR. |
| 06  | REVISION INDICATOR. |
| 09  | BREAK, STRAIGHT: TO BREAK PARTS OF DRAWING |
| 10  | BREAK, ROUND |
| 12  | NEW LINE: MEDIUM LINE. |
| 13  | HIDDEN FEATURES LINE: HIDDEN, THIN LINE |
| 14  | EXISTING TO REMAIN LINE: THIN LINE. |
| 15  | DEMOLITION LINE: DASHED, MEDIUM LINE |
| WIRING METHODS | |
| 01  | WIRING. |
| 04  | BRANCH CIRCUIT HOME RUN TO PANELBOARD: NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS. LETTER AND NUMBER NOTATIONS IDENTIFY PANEL AND CIRCUIT NUMBERS. USE #12 CONDUCTORS, EXCEPT #10 CONDUCTORS SHALL BE INSTALLED IF DISTANCES EXCEED THOSE SPECIFIED IN THE ELECTRICAL SPECIFICATIONS. |
| 05  | BRANCH CIRCUIT HOME RUN TO PANELBOARD: NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS. LETTER AND NUMBER NOTATIONS IDENTIFY PANEL AND CIRCUIT NUMBERS. NUMBER IN BOX REFERS TO THE CONDUCTOR AND CONDUIT SCHEDULE. FOR BRANCH WIRING USE #12 CONDUCTORS, EXCEPT #10 CONDUCTORS SHALL BE INSTALLED IF DISTANCES EXCEED THOSE SPECIFIED IN THE ELECTRICAL SPECIFICATIONS. |
| 07  | FLEXIBLE WIRING. |
| 08  | WIRING AND/OR RACEWAY: THIN LINE. WHERE "X" = : CATV = CABLE TELEVISION NC = NURSE CALL CCTV = CLOSED CIRCUIT TELEVISION P = POWER RC = RIGID CONDUIT FA = FIRE ALARM S = SOUND FO = FIBER OPTICS T = TELEPHONE I = INTERCOM TV = TELEVISION OTHERS AS NOTED IN OTHER SCHEDULES. RACEWAYS AND WIRING SHALL BE SIZED AS SHOWN AND/OR SPECIFIED. |
| 09  | LOW VOLTAGE WIRING: DIVIDE, MEDIUM LINE. |
| 10  | CONDUIT STUB. DIMENSION RECORD DRAWINGS AND MARK. |
| 11  | CONDUCTOR & CONDUIT ("CC") SCHEDULE INDICATOR. REFER TO ONE-LINE DIAGRAM. |
| 12  | ADA ACCESS PUSH PLATE |
| 13  | JUNCTION BOX. |
| 16  | CABLE TRAY ABOVE ACCESSIBLE CEILING. |
| 22  | EARTH GROUND (ONE-LINE DIAGRAM). |
| 22  | JUNCTION BOX, CEILING. |
| 23 | LADDER RACK. |
| 25 | MECHANICAL EQUIPMENT CONNECTION. REFER TO EQUIPMENT SCHEDULE FOR REQUIREMENTS. |
| LIGHTING (REFER TO FIXTURE SCHEDULE FOR SYMBOLS) | |
| 01 | FIXTURE IDENTIFICATION: (W-3) INDICATES FIXTURE TYPE AS SCHEDULED. |
| 02 | FIXTURE IDENTIFICATION, EMERGENCY WITH BATTERY PACK, CONNECTED TO GENERATOR AS INDICATED: (W-3) INDICATES FIXTURE TYPE AS SCHEDULED. |
| 03 | EMERGENCY. |
| 04 | NIGHT LIGHT: DO NOT SWITCH. |
| 05 | EGRESS DIRECTION ARROW (EXIT SIGNS). |
| 07 | EXIT SIGN: SINGLE FACE; CEILING MOUNTED |
| 08 | EXIT SIGN: SINGLE FACE; WALL MOUNTED |
| 09 | EXIT SIGN: DOUBLE FACE; CEILING MOUNTED |
| 10 | EXIT SIGN: DOUBLE FACE; WALL MOUNTED |
| LIGHTING CONTROL | |
| 01 | OCCUPANCY SENSOR, DUAL TECHNOLOGY, OMNI-DIRECTIONAL, CEILING. |
| 02 | OCCUPANCY SENSOR, DUAL TECHNOLOGY, WALL. |
| 03 | OCCUPANCY SENSOR, DUAL TECHNOLOGY, DIRECTIONAL. |
| 05 | OCCUPANCY SENSOR CONTROL RELAY. |
| 06 | VACANCY SENSOR, DUAL TECHNOLOGY, OMNI-DIRECTIONAL, CEILING. |
| 07 | VACANCY SENSOR, DUAL TECHNOLOGY, WALL. |
| 08 | PHOTOCELL. |
| 18 | LOW VOLTAGE DIGITAL LIGHTING CONTROL SWITCH: LETTER "a,b" INDICATES ZONING WHERE SHOWN (REFER TO PLANS, SCHEDULES, AND DETAILS FOR EXACT BUTTON CONFIGURATION AND PROGRAMMING REQUIREMENTS) |
| 19 | DIGITAL LIGHTING DIMMING CONTROLLER |
| 20 | DIGITAL PLUG LOAD CONTROLLER |
| 21 | LIGHTING NETWORK SWITCH. |
| 22 | LIGHTING NETWORK ROUTER. |
| 23 | DIGITAL LIGHTING ROOM CONTROLLER |
| 25 | LIGHTING NETWORK SEGMENT MANAGER |
| 26 | LIGHTING SPACE CONTROL TYPE. X INDICATES TYPE. SEE SCHEDULE / DIAGRAM. |

| SYMBOLS LEGEND | |
|---|--|
| SYMBOL | DESCRIPTION |
| WIRING DEVICES | |
| 02  | RECEPTACLE, DUPLEX: NEMA 5-20R. |
| 03  | RECEPTACLE, DUPLEX, ABOVE COUNTER: NEMA 5-20R. |
| 05  | RECEPTACLE, DUPLEX, DEDICATED CIRCUIT: NEMA 5-20R. |
| 06  | RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER, DRINKING FOUNTAIN: CONCEAL, WATER COOLER RECEPTACLE BEHIND WATER COOLER. SEE MECHANICAL/PLUMBING SHOP DRAWINGS FOR INSTALLATION REQUIREMENTS. |
| 12  | RECEPTACLE, DUPLEX, HOSPITAL GRADE: NEMA 5-20R. |
| 13  | RECEPTACLE, DUPLEX ON EMERGENCY POWER: NEMA 5-20R. |
| 14  | RECEPTACLE, DUPLEX, HOSPITAL GRADE ON EMERGENCY POWER: NEMA 5-20R. |
| 16  | RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER: NEMA 5-20R. |
| 17  | RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER, HOSPITAL GRADE: NEMA 5-20R. |
| 18  | RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER, HOSPITAL GRADE ON EMERGENCY POWER: NEMA 5-20R. |
| 19  | RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER, WEATHERPROOF: NEMA 5-20R. |
| 22  | RECEPTACLE, QUADRAPLEX: NEMA 5-20R. |
| 23  | RECEPTACLE, QUADRAPLEX ON EMERGENCY POWER: NEMA 5-20R. |
| 24  | RECEPTACLE, QUADRAPLEX, HOSPITAL GRADE: NEMA 5-20R. |
| 25  | RECEPTACLE, QUADRAPLEX, HOSPITAL GRADE ON EMERGENCY POWER: NEMA 5-20R. |
| 27  | RECEPTACLE, QUADRAPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER: NEMA 5-20R. |
| 28  | RECEPTACLE, SPECIAL PURPOSE: PROVIDE RECEPTACLE TO MATCH EQUIPMENT PLUG. |
| 29  | RECEPTACLE, SPECIAL PURPOSE ON EMERGENCY POWER. PROVIDE RECEPTACLE TO MATCH EQUIPMENT PLUG. |
| 33  | MULTI-OUTLET ASSEMBLY: NEMA 5-20R. |
| 34  | DROP CORD. SEE DETAIL. |
| 36  | FLUSH FLOOR BOX. "F" SHOWN ON DRAWINGS. REFER TO WIRING DEVICE SCHEDULE IN THE ELECTRICAL SPECIFICATIONS FOR CONFIGURATION AND DEVICES. |
| 37  | POWER POLE. "P" SHOWN ON DRAWINGS. REFER TO WIRING DEVICE SCHEDULE IN THE ELECTRICAL SPECIFICATIONS FOR CONFIGURATION AND DEVICES. |
| 38  | FLUSH FIRE RATED POKE THRU. "F" SHOWN ON DRAWINGS. REFER TO WIRING DEVICE SCHEDULE IN THE ELECTRICAL SPECIFICATIONS FOR CONFIGURATION AND DEVICES. |
| 39  | SWITCH, DIMMER. |
| 40  | SWITCH, SINGLE POLE ("X" INDICATES FIXTURES CONTROLLED). |
| 41 | SWITCH, DOUBLE POLE ("X" INDICATES FIXTURES CONTROLLED). |
| 42 | SWITCH, THREE-WAY ("X" INDICATES FIXTURES CONTROLLED). |
| 43 | SWITCH, FOUR-WAY ("X" INDICATES FIXTURES CONTROLLED). |
| 44 | SWITCH, DOOR. |
| 47 | SWITCH, MOMENTARY. |
| 53 | RECEPTACLE, QUADRAPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER, HOSPITAL GRADE: NEMA 5-20R. |
| 54 | RECEPTACLE, QUADRAPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER, HOSPITAL GRADE ON EMERGENCY POWER: NEMA 5-20R. |
| 56 | RECEPTACLE, SINGLE PLEX, WITH USB OUTLET |
| STRUCTURED CABLING IHC | |
| 01 | IHC COMMUNICATIONS DEVICE (1 DATA). |
| 02 | IHC COMMUNICATIONS DEVICE (1 DATA / 1 ANALOG). |
| 03 | IHC COMMUNICATIONS DEVICE (2 DATA). |
| 04 | IHC COMMUNICATIONS DEVICE (3 DATA). |
| 05 | IHC COMMUNICATIONS DEVICE (4 DATA). |
| 06 | IHC COMMUNICATIONS DEVICE (4 DATA). |
| 07 | IHC COMMUNICATIONS DEVICE (6 DATA). |
| 08 | IHC COMMUNICATIONS DEVICE PHYSIOLOGICAL MONITOR (1 DATA). |
| 09 | IHC COMMUNICATIONS DEVICE WIRELESS ACCESS POINT (2 DATA). |
| TECHNOLOGY SYSTEMS | |
| 01 | TECHNOLOGY SYSTEM CABLE. SEE SPECIFIC JOB EQUIPMENT LIST FOR APPLICABLE DESIGNATIONS. EXAMPLES: C = CONTROL CABLE G = GROUND CABLE, 10 AWG, 1 CONDUCTOR, GREEN I = INSULATED M = MICROPHONE CABLE S = SPEAKER CABLE, 10 VOLT SYSTEM Z = SPEAKER CABLE, 8 OHM SYSTEM |
| 02 | SPEAKER, CEILING MOUNTED. |
| 21 | EQUIPMENT CABINET. |
| 40 | CONNECTION PANEL. |
| NURSE CALL | |
| 01 | JUNCTION BOX. |
| 02 | CORRIDOR LIGHT. |
| 03 | BATHROOM PULL CORD STATION. |
| 04 | DUTY STATION. |
| 05 | EMERGENCY ASSISTANCE CALL STATION. |
| 07 | EMERGENCY ASSISTANCE CODE BLUE CALL STATION. |
| 08 | PATIENT STATION. |
| 09 | STAFF STATION. |
| 09 | TOUCH SCREEN NURSE CALL MASTER STATION. |
| 10 | ZONE LIGHT CONTROLLER. |
| 11 | NURSE CALL AREA CONTROL UNIT & POWER SUPPLIES. |

| SYMBOLS LEGEND | |
|--|---|
| SYMBOL | DESCRIPTION |
| ELECTRICAL POWER AND DISTRIBUTION | |
| 01  | FUSE WITH RATING (ONE-LINE DIAGRAM). |
| 02  | DISCONNECT, FUSED (ONE-LINE DIAGRAM). |
| 03  | DISCONNECT, NONFUSED (ONE-LINE DIAGRAM). |
| 04  | DISCONNECT WITH FUSE AND MOTOR STARTER COMBINATION (ONE-LINE DIAGRAM). |
| 05  | OVERLOAD RELAY (ONE-LINE DIAGRAM). |
| 06  | STARTER (ONE-LINE DIAGRAM). |
| 07  | CIRCUIT BREAKER, MOLDED CASE (ONE-LINE DIAGRAM). |
| 08  | CIRCUIT BREAKER, MOLDED CASE WITH SHUNT TRIP (ONE-LINE DIAGRAM). |
| 10  | CIRCUIT BREAKER, SOLID STATE (ONE-LINE DIAGRAM). |
| 11  | CIRCUIT BREAKER, SOLID STATE WITH GROUND FAULT PROTECTION (ONE-LINE DIAGRAM). |
| 12  | MOTOR. |
| 16  | TRANSFORMER (ONE-LINE DIAGRAM). |
| 20  | DELTA CONNECTION (ONE-LINE DIAGRAM). |
| 21  | WYE CONNECTION (ONE-LINE DIAGRAM). |
| 23  | PANELBOARD WITH MAIN LUGS ONLY. BUS SIZE AND PHASE AS SHOWN (ONE-LINE DIAGRAM). |
| 24  | PANELBOARD WITH MAIN CIRCUIT BREAKER. SIZE AND PHASE AS SHOWN (ONE-LINE DIAGRAM). |
| 25  | PANELBOARD WITH MAIN AND SUB FEED CIRCUIT BREAKER (ONE-LINE DIAGRAM). |
| 27  | PANELBOARD WITH SUB FEED LUGS (ONE-LINE DIAGRAM). |
| 29  | CT CABINET PER UTILITY'S REQUIREMENTS (ONE-LINE DIAGRAM). |
| 31  | TRANSFER SWITCH (ONE-LINE DIAGRAM). |
| 32  | DIGITAL MULTIMETER (ONE-LINE DIAGRAM). |
| 33  | SERVICE ENTRANCE SURGE PROTECTION (ONE-LINE DIAGRAM). |
| 35  | GENERATOR, POWER (ONE-LINE DIAGRAM). |
| 36  | METER. |
| 38  | VARIABLE FREQUENCY MOTOR CONTROLLER (ONE-LINE DIAGRAM). |
| 41 | DISCONNECT SWITCH, FUSED. |
| 42 | DISCONNECT SWITCH, UNFUSED. |
| 43 | STARTER, COMBINATION WITH DISCONNECT SWITCH. |
| 44 | STARTER OR MOTOR CONTROLLER. |
| 45 | PUSHBUTTON. |
| 46 | PUSHBUTTONS, MOTOR CONTROL. |
| 47 | PANELBOARD CABINET, FLUSH MOUNTED. |
| 48 | PANELBOARD CABINET, SURFACE MOUNTED, 1 SECTION. |
| 49 | PANELBOARD CABINET, SURFACE MOUNTED, 2 SECTION. |
| 51 | LIGHTING RELAY, CONTACTOR PANEL, OR DIMMING ENCLOSURE. |
| 52 | LIGHTING CONTROL STATION. |
| 55 | SWITCH, TOGGLE MOTOR STARTER WITH OVERLOAD PROTECTION. |
| 56 | TRANSFORMER: NUMBER INDICATES KVA. |

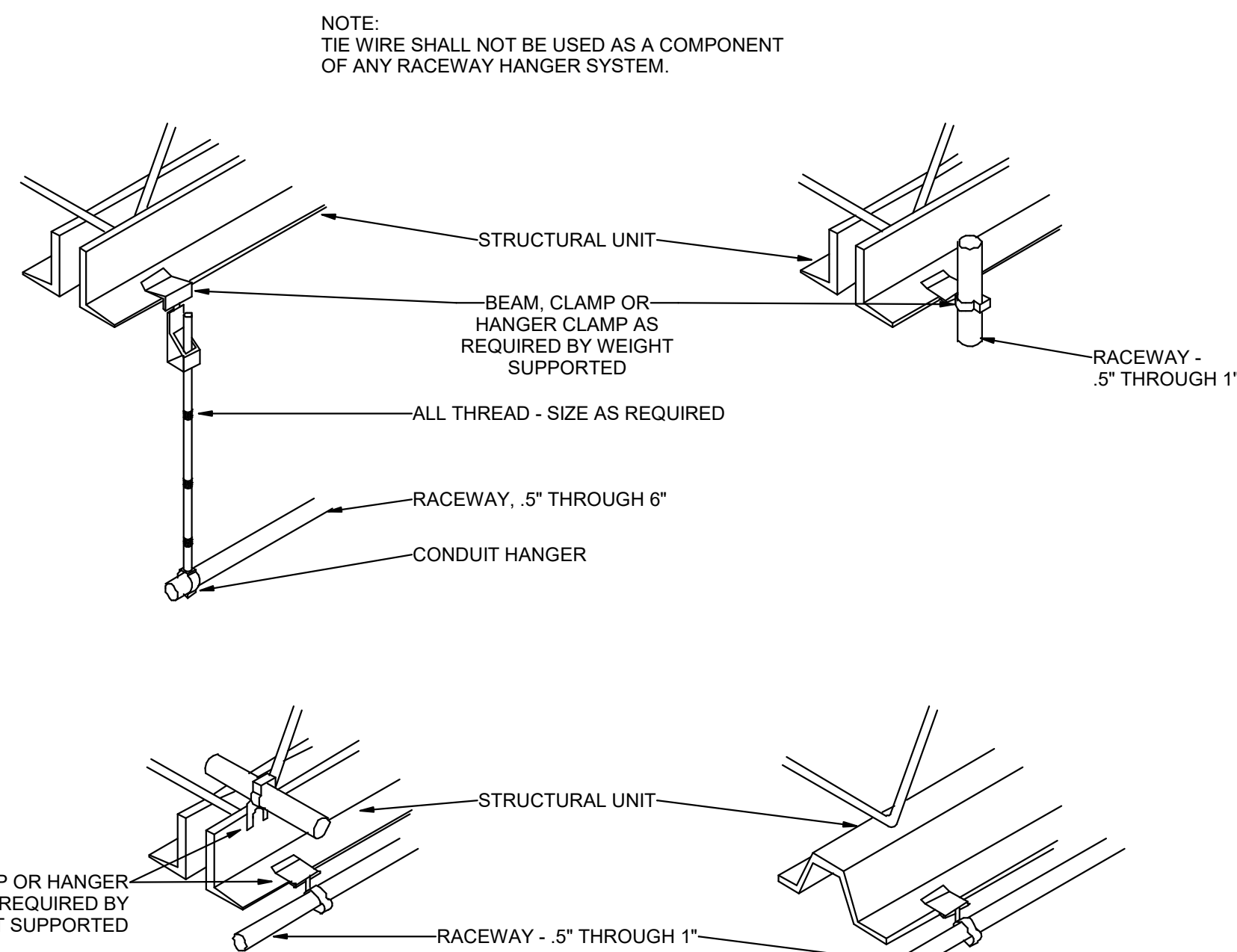
| SYMBOLS LEGEND | |
|--|---|
| SYMBOL | DESCRIPTION |
| FIRE ALARM | |
| 01  | FIRE SYSTEM ANNUNCIATOR. |
| 02  | FIRE ALARM CONTROL PANEL, SEMI-RECESSED. |
| 03  | FIRE ALARM NOTIFICATION POWER SUPPLY. |
| 04  | FIRE ALARM TRANSPONDER OR TRANSMITTER. |
| 05  | SMOKE CONTROL PANEL. |
| 06  | AUTOMATIC DOOR CLOSERS: DOOR CLOSERS SHALL BE PROVIDED WITH DOOR HARDWARE AND CONNECTED TO BY FIRE ALARM INSTALLERS. |
| 07  | CONTROL MODULE. |
| 08  | MONITOR MODULE. |
| 09  | FIRE ALARM MANUAL PULL STATION. |
| 10  | SHUT DOWN RELAY: INSTALL RELAY IN CONTROL CIRCUIT OF EQUIPMENT TO BE CONTROLLED IN THE EVENT OF A FIRE. |
| 11  | MAGNETIC DOOR HOLDER. |
| 12  | FIRE SERVICE OR EMERGENCY TELEPHONE STATION, ACCESSIBLE. |
| 13  | FIRE SERVICE OR EMERGENCY TELEPHONE STATION, HANDSET. |
| 14  | FIRE SERVICE OR EMERGENCY TELEPHONE STATION, JACK. |
| 15  | DETECTOR, SMOKE. |
| 22  | DETECTOR, SMOKE, DUCT WITH HOUSING AND SAMPLING TUBE. |
| 23  | DETECTOR, HEAT. |
| 24  | INDICATOR LAMP. |
| 25  | STROBE. |
| 27  | ALARM, HORN/SPEAKER, WEATHERPROOF. |
| 28  | ALARM, HORN/STROBE, ONE ASSEMBLY. |
| 35  | DETECTOR, FLOW SWITCH: FLOW SWITCHES SHALL BE PROVIDED AND INSTALLED WITH FIRE SPRINKLER SYSTEM AND SHALL BE CONNECTED TO LOCATIONS SHOWN ON THE FIRE SPRINKLER SHOP DRAWINGS. |
| 36  | DETECTOR, TAMPER SWITCH WITH VALVE: TAMPER SWITCHES SHALL BE PROVIDED AND INSTALLED WITH FIRE SPRINKLER SYSTEM AND SHALL BE CONNECTED TO LOCATIONS SHOWN ON THE FIRE SPRINKLER SHOP DRAWINGS. |
| 37  | SMOKE DAMPER. |
| 38  | FIRE AND SMOKE DAMPER. |
| 39  | BELL (GONG). |
| 40  | DETECTOR, CARBON MONOXIDE. |
| 41  | DETECTOR, SMOKE/STROBE, RESIDENTIAL. |
| 42  | ALARM, HORN/STROBE, ONE ASSEMBLY, CEILING MOUNTED. SUBSCRIPT INDICATES CANDELA RATING. |
| 43  | ALARM, HORN, CEILING MOUNTED. SUBSCRIPT INDICATES CANDELA RATING. |
| 44  | ALARM, STROBE, CEILING MOUNTED. SUBSCRIPT INDICATES CANDELA RATING. |
| CCTV | |
| 01  | CCTV CABLE, POWER. |
| 02  | CCTV CABLE, VIDEO SIGNAL. |
| 03  | CCTV HEADEND EQUIPMENT. |
| 04  | CCTV MONITOR. |
| 05  | CCTV CAMERA/ENCLOSURE WITH LENS, TYPICAL. SEE SCHEDULE. |
| PTZ  | CCTV CAMERA WITH PAN, TILT AND ZOOM. |
| 07  | PANNING CAMERA TRANSVERSE ANGLE. |
| SECURITY | |
| 01  | SECURITY CABLE. SEE EQUIPMENT SCHEDULE FOR CABLE TYPE. |
| 02  | ACCESS CONTROL HEADEND EQUIPMENT. |
| 03  | SECURITY CONTROL PANEL. |
| 04  | INTRUSION DETECTION HEADEND EQUIPMENT. |
| 05  | CARD ACCESS DOOR TYPE #1 OR AS NOTED. SEE SCHEDULE. |
| 06  | CARD READER. |
| 07  | KEYPAD/CARD READER COMBINATION. |
| 08  | DOOR SWITCH, BALANCED MAGNETIC CONTROL. |
| 09  | EXIT REQUEST. |
| 10  | REMOTE DOOR RELEASE BUTTON. |
| 11  | BELL. |
| 12  | BUZZER. |
| 13  | BUZZER, COMBINATION BELL. |
| 14  | SENSOR, BURIED VEHICULAR. |
| 15  | SENSOR, GLASS BREAK. |
| 16  | SENSOR, VOLUMETRIC. |
| 17  | CONTROLLED ACCESS POINT. |
| 21  | PANIC DURESS SWITCH. |

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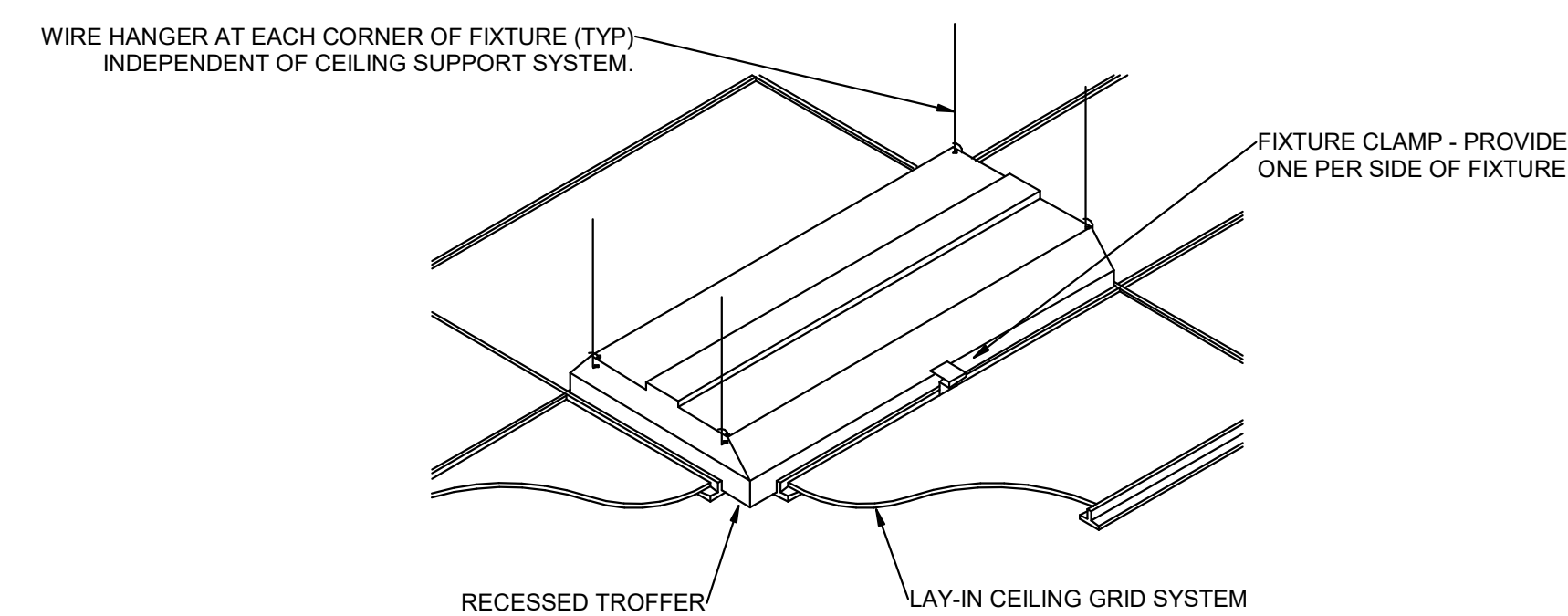


- NOTES:
1. TYPICAL FOR WOOD AND METAL STUD ROUGH-IN.
 2. PLASTER RINGS NOT SHOWN.
 3. LOCATE ALL OUTLET BOXES IN ACCORDANCE WITH ARCHITECTURAL AND MECHANICAL DRAWINGS AND WITH ALL APPLICABLE SHOP DRAWINGS.
 4. IN ACCORDANCE WITH IBC 714.3.2 EXCEPTION 1, OUTLETS ON OPPOSITE SIDES OF WALLS OR PARTITIONS IN THE SAME STUD SPACE IN A RATED FIRE SEPARATION WALL MUST BE SEPARATED BY A MINIMUM OF 24" HORIZONTAL DISTANCE OR LISTED, SOUND AND FIRE RATED PUTTY PADS SHALL BE USED ON THE OUTLET BOXES.
 5. IN NON-RATED WALLS, OUTLETS ON OPPOSITE SIDES OF WALLS OR PARTITIONS MUST BE SEPARATED BY 16" FOR SOUND ATTENUATION.

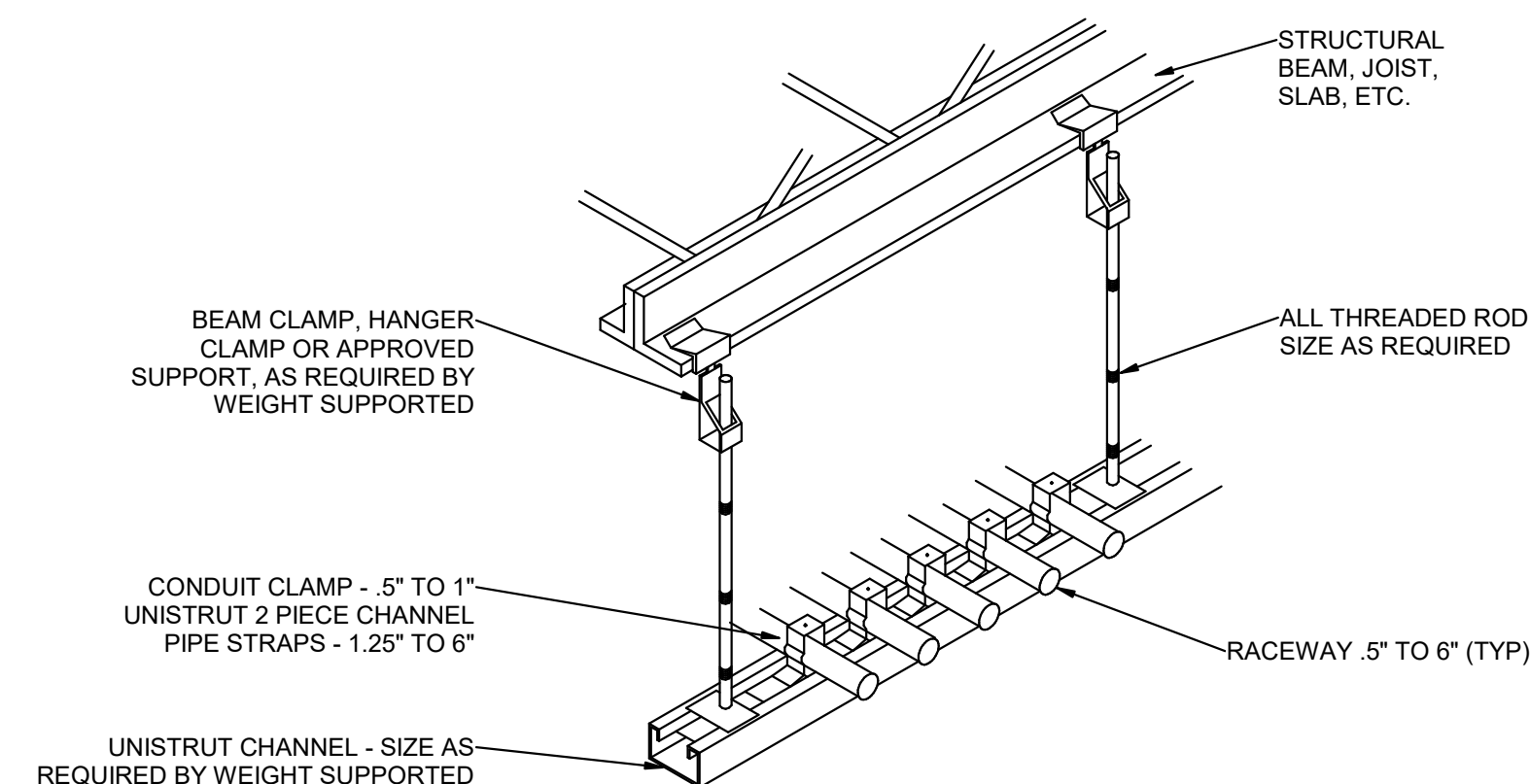
1 TYPICAL ROUGH-IN REQUIREMENTS DETAIL
SCALE: 1/8" = 1'-0"



2 TYPICAL RACEWAY SUPPORT METHODS DETAIL
SCALE: 1/8" = 1'-0"

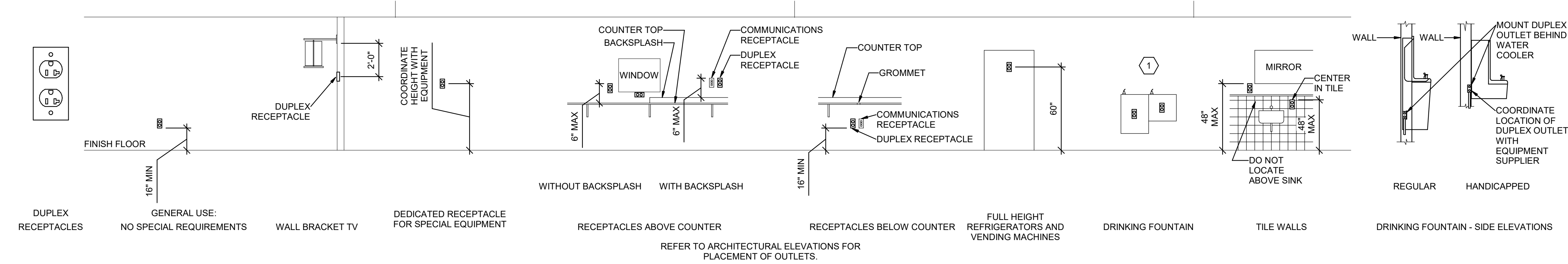


4 RECESSED FIXTURE MOUNTING DETAIL
SCALE: 1/8" = 1'-0"

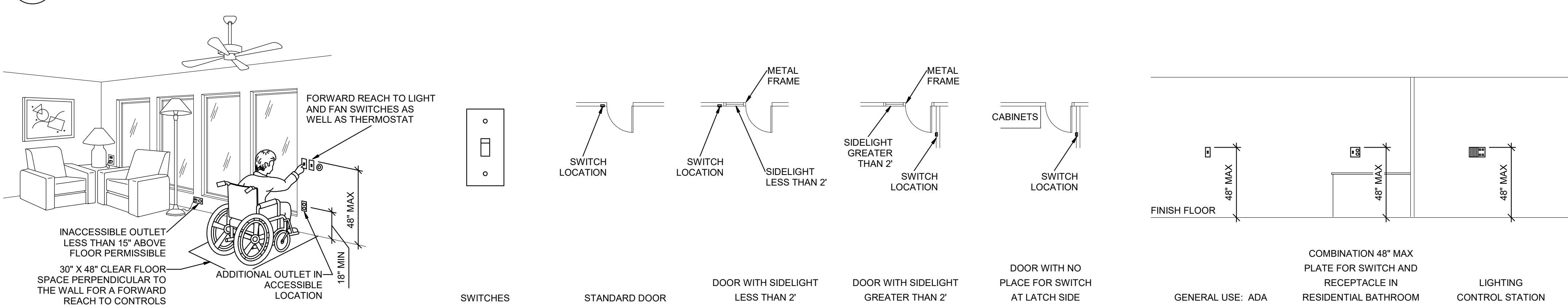


3 TYPICAL CONDUIT RACK DETAIL
SCALE: 1/8" = 1'-0"

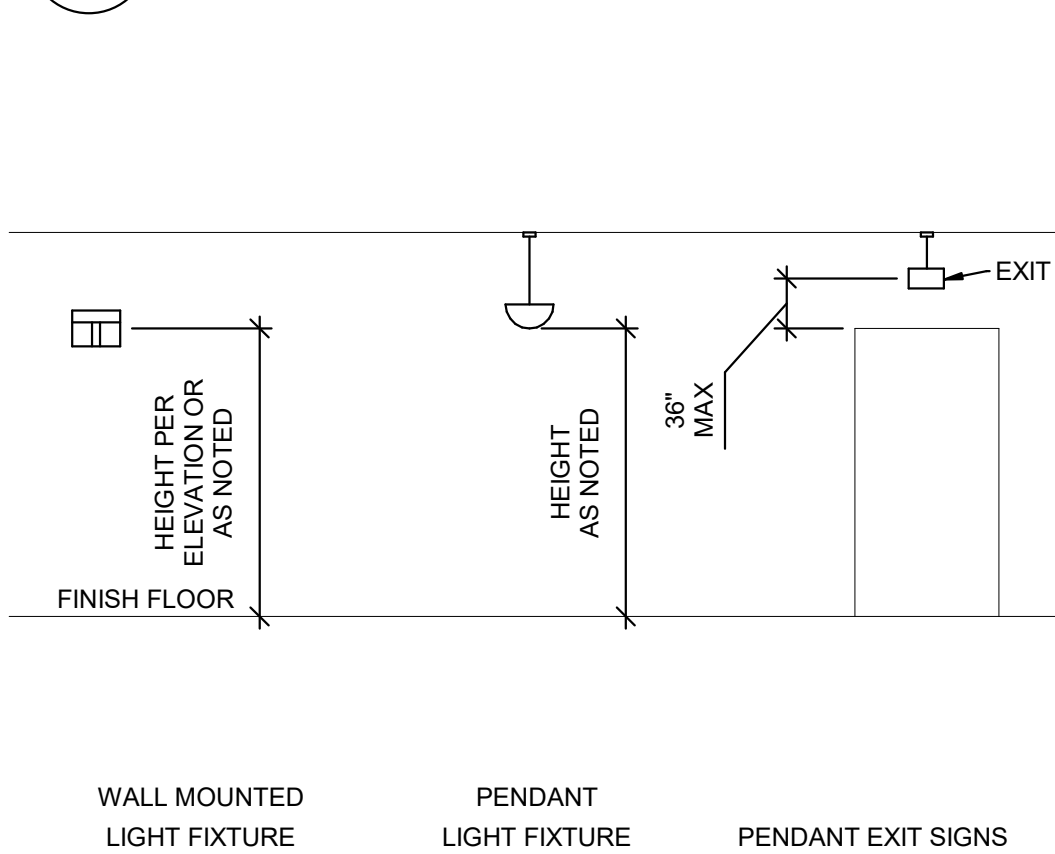
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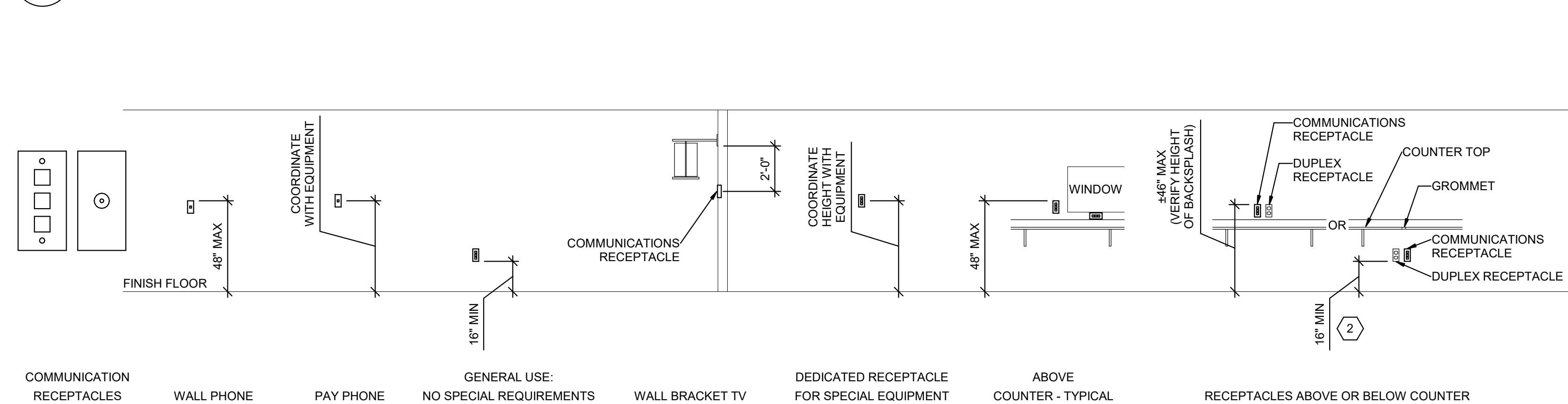
E2 RECEPTACLE MOUNTING DETAILS



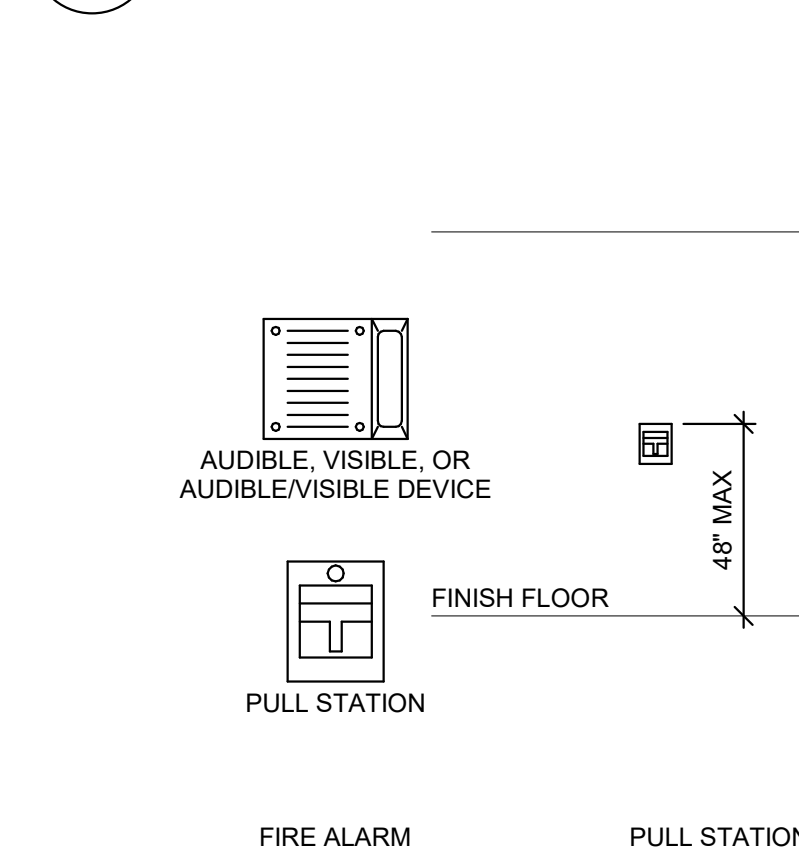
D2 ADA DETAIL



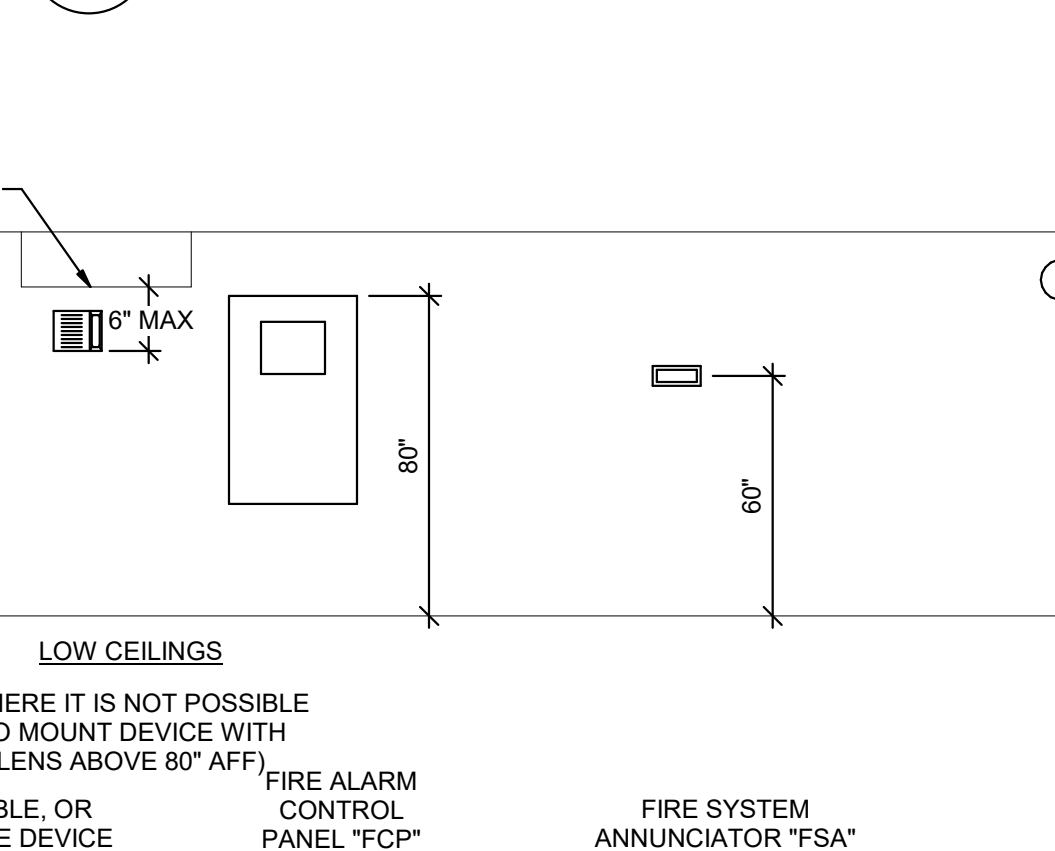
D3 SWITCH MOUNTING DETAILS



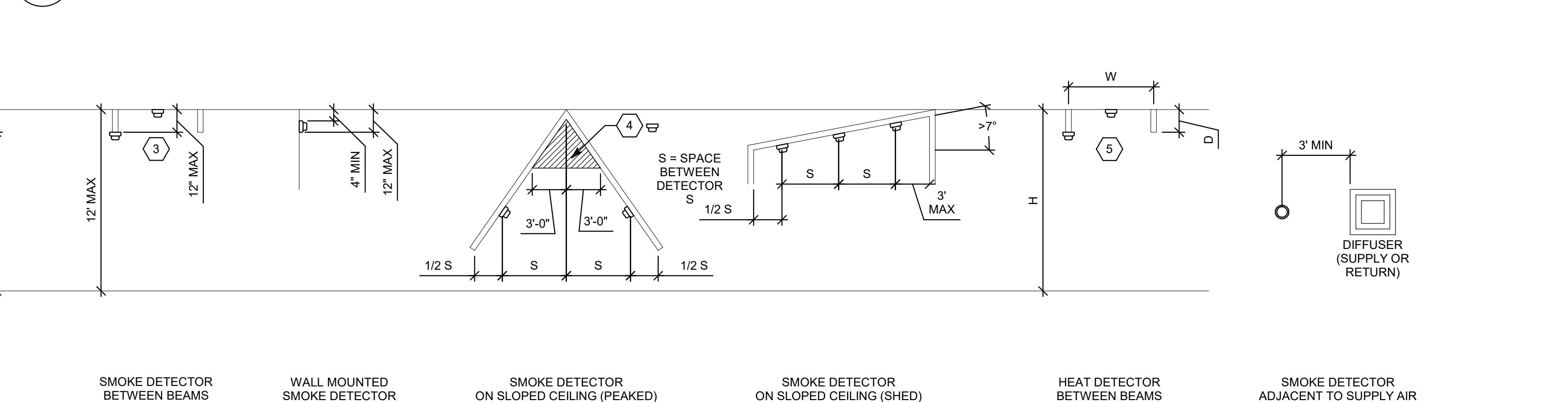
C1 CMU DEVICE MOUNTING ALIGNMENT DETAIL



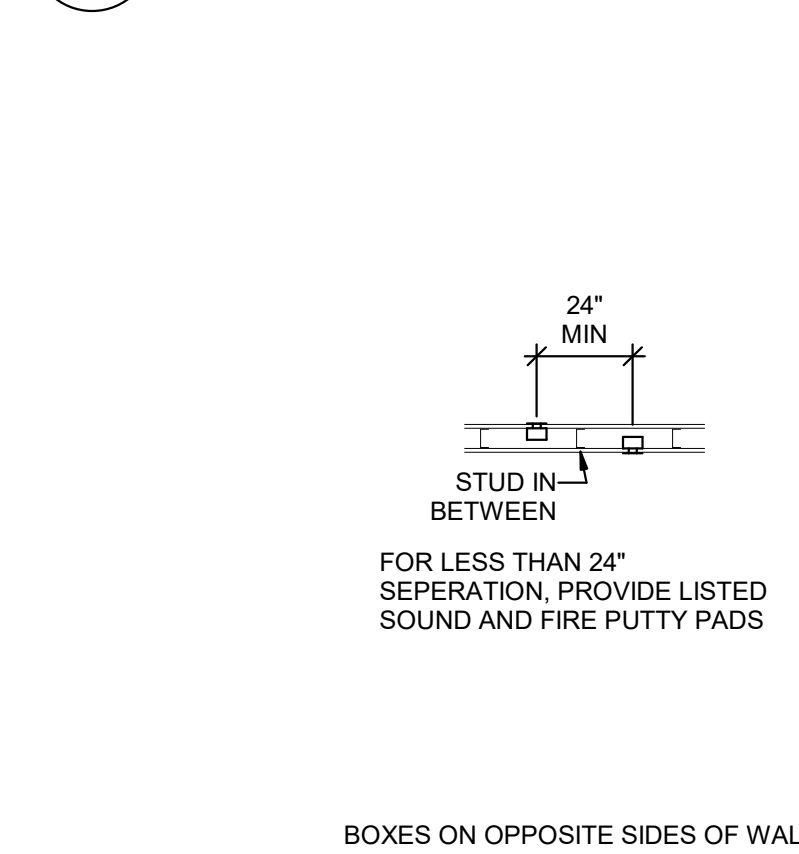
C2 LIGHTING MOUNTING DETAILS



C3 COMMUNICATIONS MOUNTING DETAILS



B1 FIRE ALARM MOUNTING DETAILS



A1 BOX MOUNTING DETAILS



A2 TYPICAL WALL MOUNTED DEVICES ALIGNMENT DETAIL



GENERAL SHEET NOTES

1. DETERMINE MOUNTING HEIGHTS OF ELECTRICAL AND ELECTRONIC EQUIPMENT IN THE FOLLOWING ORDER OF PRIORITY:
 - 1 - ELEVATIONS (ARCHITECTURAL, ELECTRICAL, MECHANICAL, ETC).
 - 2 - EQUIPMENT SHOP DRAWINGS.
 - 3 - FIELD INSTRUCTIONS.
2. LOCATE RECEPTACLES SERVING THE SAME TYPE OF USE AT A UNIFORM HEIGHT UNLESS DIRECTED OTHERWISE.
3. MECHANICAL, ELECTRICAL, AND COMMUNICATION ROOMS: COORDINATE LOCATION OF LIGHTING AND POWER RECEPTACLES WITH EQUIPMENT, PIPING, AND DUCTWORK. DO NOT INSTALL RECEPTACLES BEHIND EQUIPMENT OR WHERE OTHERWISE INACCESSIBLE. POSITION LIGHTING REGARDLESS OF WHERE SHOWN ON DRAWING TO PROVIDE PROPER ILLUMINATION.
4. MOUNT RECEPTACLE BOXES FOR SWITCHES AND RECEPTACLES WITH LONG AXIS OF THE DEVICE VERTICAL UNLESS OTHERWISE INDICATED.
5. SET BOXES WITH PLASTER RINGS FLUSH WITH FINISHED SURFACE.
6. LOCATE BOX COVERS OR DEVICE PLATES SO THEY WILL NOT SPAN DIFFERENT TYPES OF BUILDING FINISHES EITHER VERTICALLY OR HORIZONTALLY.
7. VERIFY ALL DOOR CONDITIONS ON ARCHITECTURAL DRAWINGS PRIOR TO INSTALLING SWITCHES.
8. LOCATE WIRING DEVICES WHICH ARE ADJACENT AND ARE COMPATIBLE VOLTAGES IN ONE PLATE.
9. WHERE DEVICES ARE LOCATED IN CLOSE PROXIMITY OF THE SAME VERTICAL PLANE, ALIGN DEVICES VERTICALLY PER THE TYPICAL WALL MOUNTED DEVICES ALIGNMENT DETAIL, UNLESS OTHERWISE INDICATED.

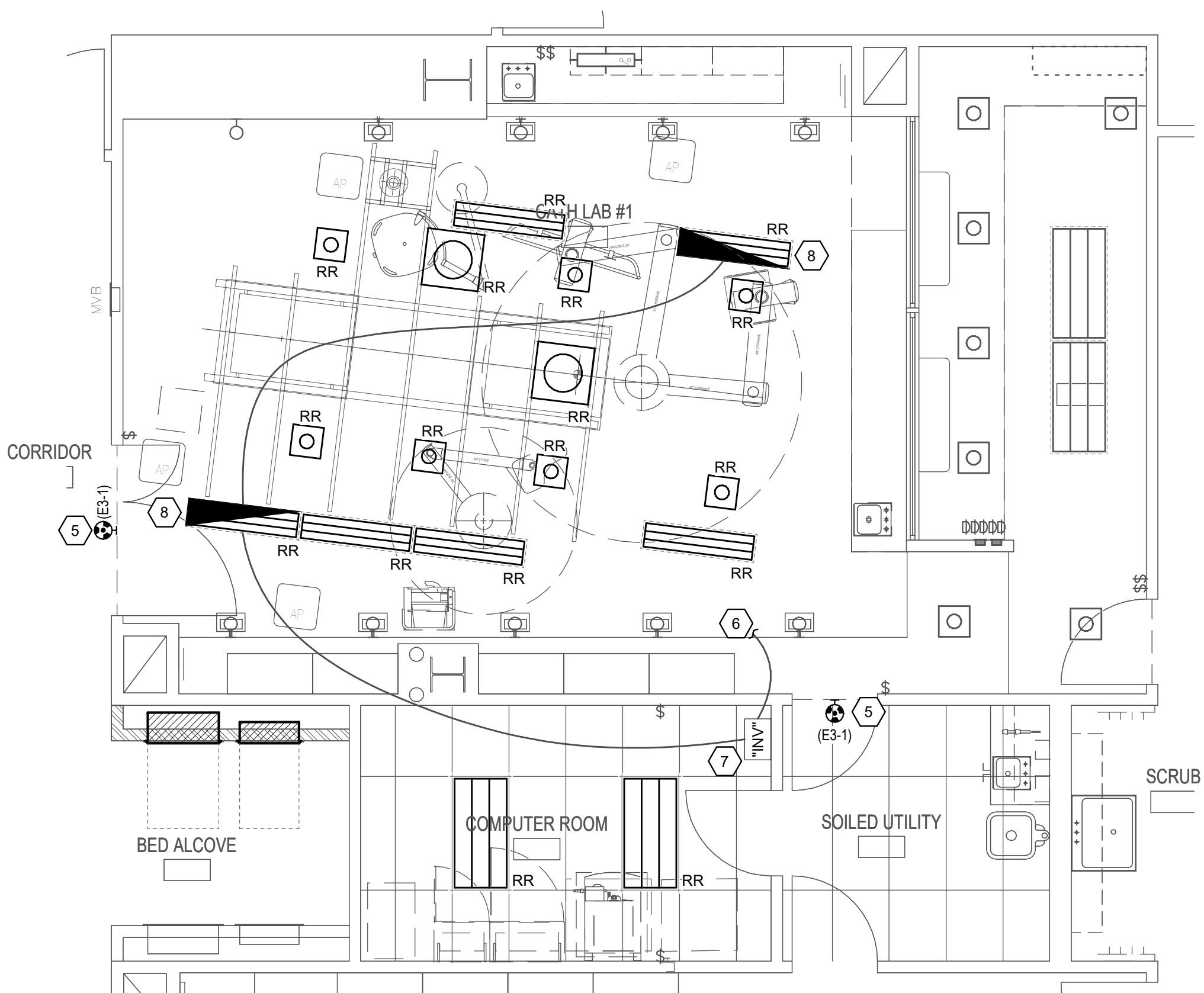
SHEET KEYNOTES

1. LOCATE RECEPTACLES BEHIND DRINKING FOUNTAINS.
2. REFER TO ARCHITECTURAL ELEVATIONS FOR PLACEMENT OF OUTLETS.
3. LOCATE AT BOTTOM OF BEAMS (OR JOISTS) OR AT CEILING. (REDUCE SPACING BY .5 PERPENDICULAR TO BEAM OR JOIST DIRECTION.) FOR OTHER CONDITIONS, REFER TO NFPA 72.
4. LOCATE DETECTOR ANYWHERE IN SHADED AREA BUT NOT IN TOP 4" OF PEAK.
5. LOCATE AT BOTTOM OF BEAMS IF D/H < .1 OR W/H < .4; OTHERWISE, LOCATE IN BEAM POCKET. FOR D > .4 REDUCE SPACING .33 PERPENDICULAR TO BEAMS.

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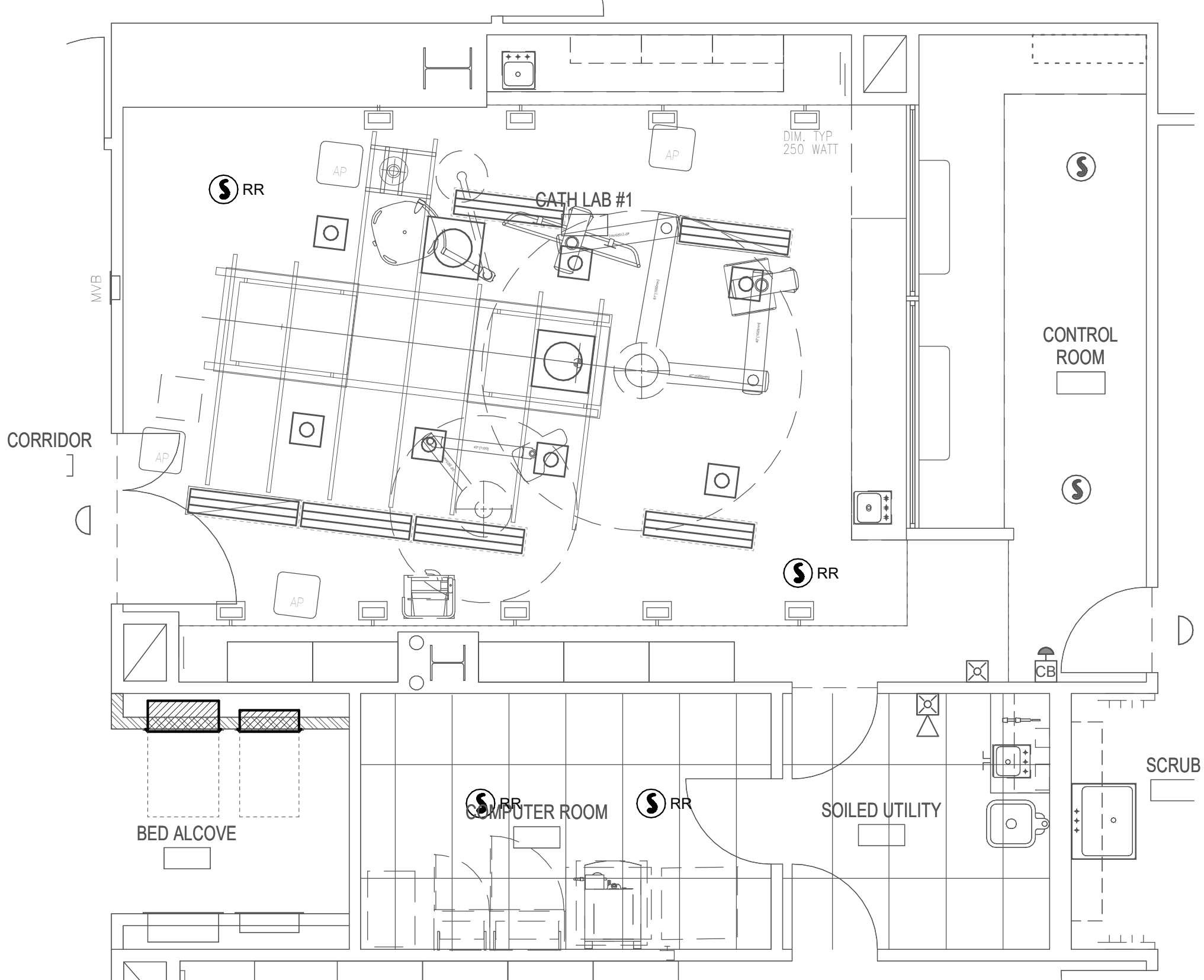
2 LIGHTING PLAN

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



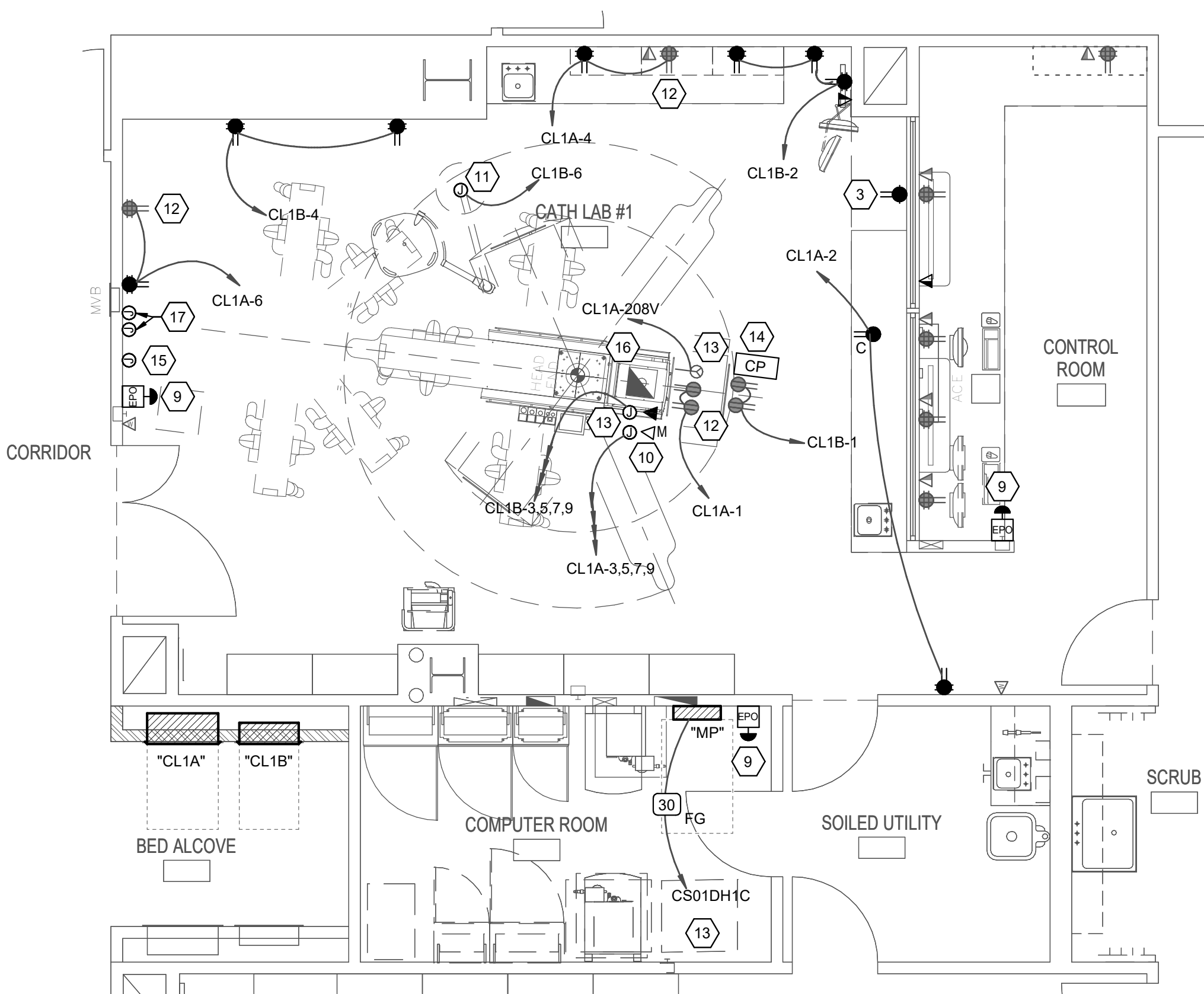
4 AUXILIARY PLAN

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



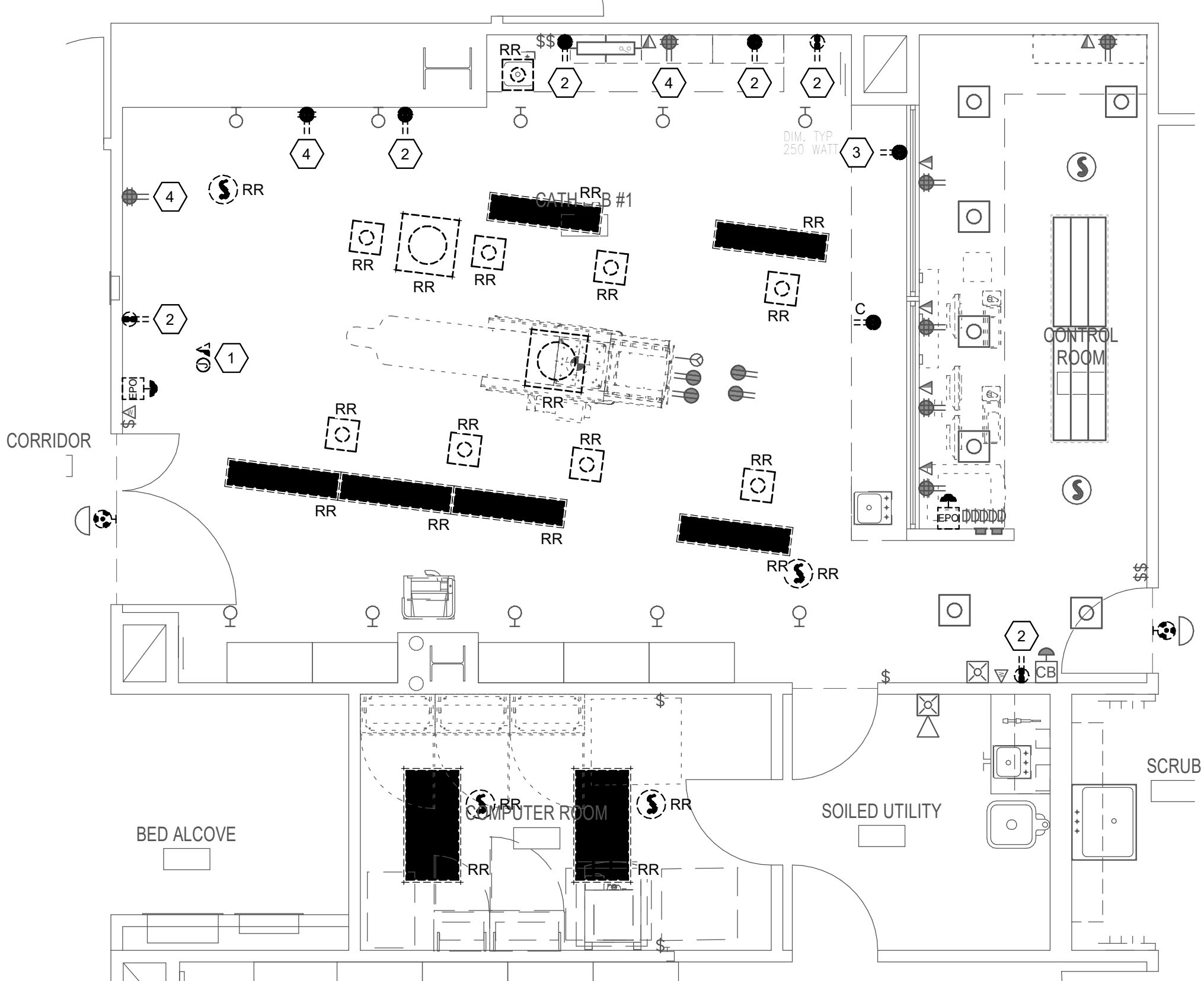
1 POWER PLAN

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



3 ELECTRICAL DEMOLITION PLAN

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



GENERAL SHEET NOTES

- UNLESS NOTED OTHERWISE REMOVE ALL LIGHTING FIXTURES DEVICES AND EQUIPMENT SHOWN DASHED. REMOVE CONDUIT AND WIRING BACK TO PANELBOARD OF ORIGIN OR TO FIRST ACTIVE DEVICE THAT REMAINS.
- SALVAGE ALL LIGHT FIXTURES, TWIST-LOCK RECEPTACLES AND WALLPLATES. CEILING SPEAKERS AND SECURITY AND FIRE ALARM DEVICES TO OWNER. PROTECT SALVAGED EQUIPMENT FROM DAMAGE.
- PRIOR TO SUBMITTING BID, VISIT THE SITE AND FIELD VERIFY THE EXTENT OF ELECTRICAL DEMOLITION WORK TO MEET THE INTENT OF THE BID DOCUMENTS AND INCLUDE ALL COSTS IN BID.
- PRIOR TO REMOVAL OF ANY ELECTRICAL EQUIPMENT OR WIRING, FIELD VERIFY THAT THE EQUIPMENT OR WIRING IS INACTIVE OR NO LONGER IN USE.
- REMOVE ALL DEVICES, RACEWAYS AND WIRING FROM WALLS TO BE REMOVED. WHERE ACTIVE RACEWAYS OCCUR IN WALLS TO BE REMOVED, RE-ROUTE THE RACEWAY WITH ASSOCIATED WIRING TO KEEP THE CIRCUIT OPERATIONAL.
- REMOVE ALL FIRE ALARM DEVICES WHERE EXISTING WALLS AND CEILINGS ARE BEING REMOVED, WITH ASSOCIATED CONDUIT AND WIRING. EXISTING FIRE ALARM DEVICES AND SYSTEM NOT INDICATED FOR REMOVAL SHALL REMAIN ACTIVE THROUGHOUT DEMOLITION AND CONSTRUCTION UNTIL THE NEW SYSTEM IS TESTED AND OPERATIONAL. MAINTAIN ALL CLASS A FIRE ALARM INITIATING AND INDICATING LOOPS WHERE EXISTING DEVICES ARE REMOVED.
- REMOVE ALL ABANDONED RACEWAY, CONDUIT, WIRING AND CABLING WHETHER ABANDONED PREVIOUS TO THIS PROJECT OR AS A RESULT OF THIS PROJECT. NOT ALL ABANDONED ITEMS ARE SHOWN ON THESE PLANS AND FIELD VERIFICATION OF DEMOLITION SCOPE EXTENT IS REQUIRED.
- DEVICES MARKED "RR" ARE TO BE REMOVED AND RELOCATED PER NEW PLANS. EXTEND CIRCUITING AS REQUIRED FOR RELOCATION.
- ALL ITEMS INDICATED TO REMAIN SHALL BE PROTECTED DURING ALL PHASES OF CONSTRUCTION.
- CONTRACTOR TO TRACE AND LABEL ALL EXISTING LOADS TO REMAIN, THAT ARE CURRENTLY FED FROM PANELS THAT ARE BEING DEMOLISHED IN THIS PHASE. THESE LOADS TO BE RE-FED FROM NEW PANELS IN NEXT PHASE.
- PROVIDE DEDICATED NEUTRAL FOR ALL BRANCH CIRCUITS.
- ALL RECEPTACLES INSTALLED WITHIN 6" OF THE EDGE OF A SINK SHALL BE GFCI PROTECTED.
- PROVIDE NEW TYPED PANEL SCHEDULES FOR ALL PANELS AFFECTED BY CONSTRUCTION.
- REFER TO SIEMENS AND SKYTRON DRAWINGS ON EP700 SERIES SHEETS FOR ADDITIONAL CONTRACTOR RESPONSIBILITIES.

SHEET KEYNOTES

- DEMOLISH EXISTING ELECTRICAL AND DATA TO MED GAS COLUMN.
- EXISTING DUPLEX RECEPTACLE TO BE REPLACED WITH A NEW FOUR-PLEX RECEPTACLE AND RE-CIRCUITED TO NEW ISOLATION PANEL.
- REMOVE EXISTING RECEPTACLE AND REPLACE WITH A NEW GFCI RECEPTACLE.
- EXISTING RECEPTACLE TO BE RE-CIRCUITED TO NEW ISOLATION PANEL.
- CONNECT TO EXISTING LIGHTING CIRCUIT IN THE ROOM. DO NOT CONNECT TO ANY ROOM LIGHTING SWITCH LEGS. REFER TO SIEMENS DETAIL.
- CIRCUIT LIGHTING INVERTER TO THE EXISTING CRITICAL BRANCH LIGHTING CIRCUIT FEEDING THE OTHER LIGHT FIXTURES IN THE CATH LAB.
- PROVIDE EVENLITE PUREWAVE PW-25-1C-V2-RT LIGHTING INVERTER (OR EQUIVALENT) WITH REMOTE TEST SWITCH IN THE CATH LAB EQUIPMENT ROOM. COORDINATE EXACT LOCATIONS FOR THE INVERTER AND REMOTE TEST SWITCH WITH THE OWNER. CONNECT THE SWITCHED INPUT FOR THE INVERTER TO THE LOAD SIDE OF TEST SWITCH FEEDING THE 1X4 FIXTURES IN THE LAB AND USE THE INVERTER SWITCHED OUTPUT TO CONNECT TO THE LIGHT FIXTURES.
- CONNECT LIGHT FIXTURE TO NEW LIGHTING INVERTER LOCATED IN THE EQUIPMENT ROOM.
- PROVIDE EMERGENCY POWER OFF SWITCH CONNECTED TO CATH LAB MAIN SHUNT TRIP BREAKER (MP).
- PROVIDE (8) 120V 20A CIRCUIT TO SKYTRON BOOM FOR RECEPTACLES, FOUR FROM EACH ISOLATION PANEL. PROVIDE THREE STANDARD DATA DROPS AND ONE PATIENT MONITORING DATA DROP. STRUCTURED CABLING INSTALLER TO MAKE ALL TERMINATIONS IN BOOM.
- PROVIDE 120V CIRCUIT TO THE SKYTRON BOOM FOR THE LIGHT.
- RE-CIRCUIT EXISTING RECEPTACLES TO NEW ISOLATION PANEL.
- PROVIDE (1) 3" CONDUIT AND (3) 2" CONDUITS STUBBED TO ABOVE THE NEW NETWORK RACK TO THE FOLLOWING LOCATIONS: (1) 2" CONDUIT TO MONITOR BOOM ON PATIENT LEFT, (1) 2" CONDUIT TO THE MED GAS EQUIPMENT BOOM, (1) 2" CONDUIT TO UNDER THE CONTROL ROOM DESK VIA THE CHASE ON THE WEST END OF THE DESK, AND (1) 3" CONDUIT TO THE TABLE BASE FOR SIEMENS CABLING.
- PROVIDE (1) 2" CONDUIT FROM NEW NETWORK RACK LOCATION TO THE MED GAS PEDASTAL. RUN CONDUIT DOWN TO THE CEILING SPACE OF THE FLOOR BELOW AND BACK UP TO THE PEDASTAL.
- PROVIDE 1.25" CONDUIT WITH CAT6A SHIELDED CABLE FROM THE VIDEO SWITCH LOCATION IN THE PROCEDURE ROOM TO THE DATA RACK LOCATED IN THE EQUIPMENT ROOM. COORDINATE EXACT LOCATION WITH OWNER.
- PROVIDE A NEW 2.5" CONDUIT FOR THE VIDEO INTEGRATION SYSTEM, FROM VIDEO INTEGRATION RACK IN THE EQUIPMENT ROOM TO THE B10 BOX SHOWN IN THE SIEMENS DRAWINGS.
- PROVIDE A REMOTE ANNUNCIATOR (DRA-IV) FOR EACH ISOLATION PANEL IN THE CATH LAB.

| | | | | | | | | | | | | | | | | |
|--|---------|---------------|-------------|----------|-----|-------------------|-----|--------------|---------|---|-------------|------|-----|--------------|------|-------|
| CLIENT: | | | | | | JOB: | | | | 12/8/2021 | | | | CIRCUITS: 32 | | |
| PANEL ID: CL1A | | MOUNT: FLUSH | | | | TYPE: BOLT-ON | | BOLT-ON | | 120 VOLT 1 PHASE 3 WIRE ISOLATION PANEL | | | | | | |
| 80 AMPERE MAIN | | BREAKER | | | | LOCATION: | | | | PANEL SIZE: 72"Hx32"Wx12"D | | | | | | |
| ACCESSORIES: PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR, LINE ISOLATION MONITORS, 7.5 KVA, 208-120/208 VOLT TRANSFORMERS, INDICATOR ALARMS, INDICATOR LIGHTS, STAINLESS STEEL COVER (BOTH PANEL SECTIONS UNDER COMMON COVER) | | | | | | | | | | | | | | | | |
| CRITICAL BRANCH A SECTION | | | | | | SECTION 1 | | | | | | | | | | |
| CIR # | O/C AMP | O/C PROT POLE | OUTLETS LTG | CO'S | PWR | DESCRIPTION | LCL | LOAD | LCL KVA | DESCRIPTION | OUTLETS LTG | CO'S | PWR | O/C PROT AMP | POLE | CIR # |
| 1 | 20 | 2 | 2 | | | FLOOR PEDASTAL CO | 0.4 | 1 | 0.6 | CEILING AND EAST CO | | | | 20 | 2 | 2 |
| 3 | 20 | 2 | | 2 | | BOOM CO | 0.4 | 1.2 | 0.8 | WEST CO | 4 | | | 20 | 2 | 4 |
| 5 | 20 | 2 | | 3 | | BOOM CO | 0.6 | 1.4 | 0.8 | SOUTH CO | 4 | | | 20 | 2 | 6 |
| 7 | 20 | 2 | | 3 | | BOOM CO | 0.6 | 1.4 | 0.8 | SPARE | 4 | | | 20 | 2 | 8 |
| 9 | 20 | 2 | | 3 | | BOOM CO | 0.6 | 0.6 | 0 | SPARE | | | | 20 | 2 | 10 |
| 11 | 20 | 2 | | | | SPARE | 0 | 0 | 0 | SPARE | | | | 20 | 2 | 12 |
| 13 | 20 | 2 | | | | SPARE | 0 | 0 | 0 | SPARE | | | | 20 | 2 | 14 |
| 15 | 20 | 2 | | | | SPARE | 0 | 0 | 0 | SPARE | | | | 20 | 2 | 16 |
| TOTALS: | | | | KVA AMPS | | 5.6 | | TOTAL KVA | | | | | | 5.6 | | |
| | | | | | | 47 | | AVERAGE AMPS | | | | | | 23 | | |

| | | | | | | | | | | | | | | | | | | | |
|--|--------------|------|-------------|--|-----|---------------|----------------|---------------|---------|------------------------|-------------|---|--|----------------------------|--------------|------|-------|--|--|
| PANEL ID:CL1A-208V | | | | MOUNT: | | FLUSH BREAKER | | TYPE: BOLT-ON | | BOLT-ON | | 208 VOLT 1 PHASE 3 WIRE ISOLATION PANEL | | | | | | | |
| 50 CL3A-208V | | | | | | | | LOCATION: | | | | | | PANEL SIZE: 72"Hx32"Wx12"D | | | | | |
| ACCESSORIES: PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR, LINE ISOLATION MONITORS, 7.5 KVA, 208-120/208 VOLT TRANSFORMERS, INDICATOR ALARMS, INDICATOR LIGHTS, STAINLESS STEEL COVER (BOTH PANEL SECTIONS UNDER COMMON COVER) | | | | | | | | | | | | | | | | | | | |
| CRITICAL BRANCH B SECTION | | | | | | | | | | SECTION 2 | | | | | | | | | |
| CIR # | O/C PROT AMP | POLE | OUTLETS LTG | CO'S | PWR | DESCRIPTION | LCL LCL/LD KVA | | LCL KVA | | DESCRIPTION | OUTLETS LTG | | PWR | O/C PROT AMP | POLE | CIR # | | |
| 1 | 30 | 2 | | 2 | | LASER | 0.4 | 0.4 | 0 | | SPACE | | | | 20 | 2 | 2 | | |
| 3 | 20 | 2 | | 2 | | SPACE | 0.4 | 0.4 | 0 | | SPACE | | | | 20 | 2 | 4 | | |
| 5 | 20 | 2 | | 2 | | SPACE | 0.4 | 0.4 | 0 | | SPACE | | | | 20 | 2 | 6 | | |
| 7 | 20 | 2 | | 2 | | SPACE | 0.4 | 0.4 | 0 | | SPACE | | | | 20 | 2 | 8 | | |
| 9 | 20 | 2 | | 3 | | SPACE | 0.6 | 0.6 | 0 | | SPACE | | | | 20 | 2 | 10 | | |
| 11 | 20 | 2 | | | | SPACE | 0 | 0 | 0 | | SPACE | | | | 20 | 2 | 12 | | |
| TOTALS: | | | | KVA AMPS | | | | 2.2 | | TOTAL KVA AVERAGE AMPS | | | | 2.2 9 | | | | | |
| WIRING: | | | | | | | | | | | | | | | | | | | |
| NOTE | | | | PANEL SCHEDULE IS TYPICAL FOR OR ROOMS #1, #2, #3, #4, #5, #6 & #7 | | | | | | | | | | | | | | | |

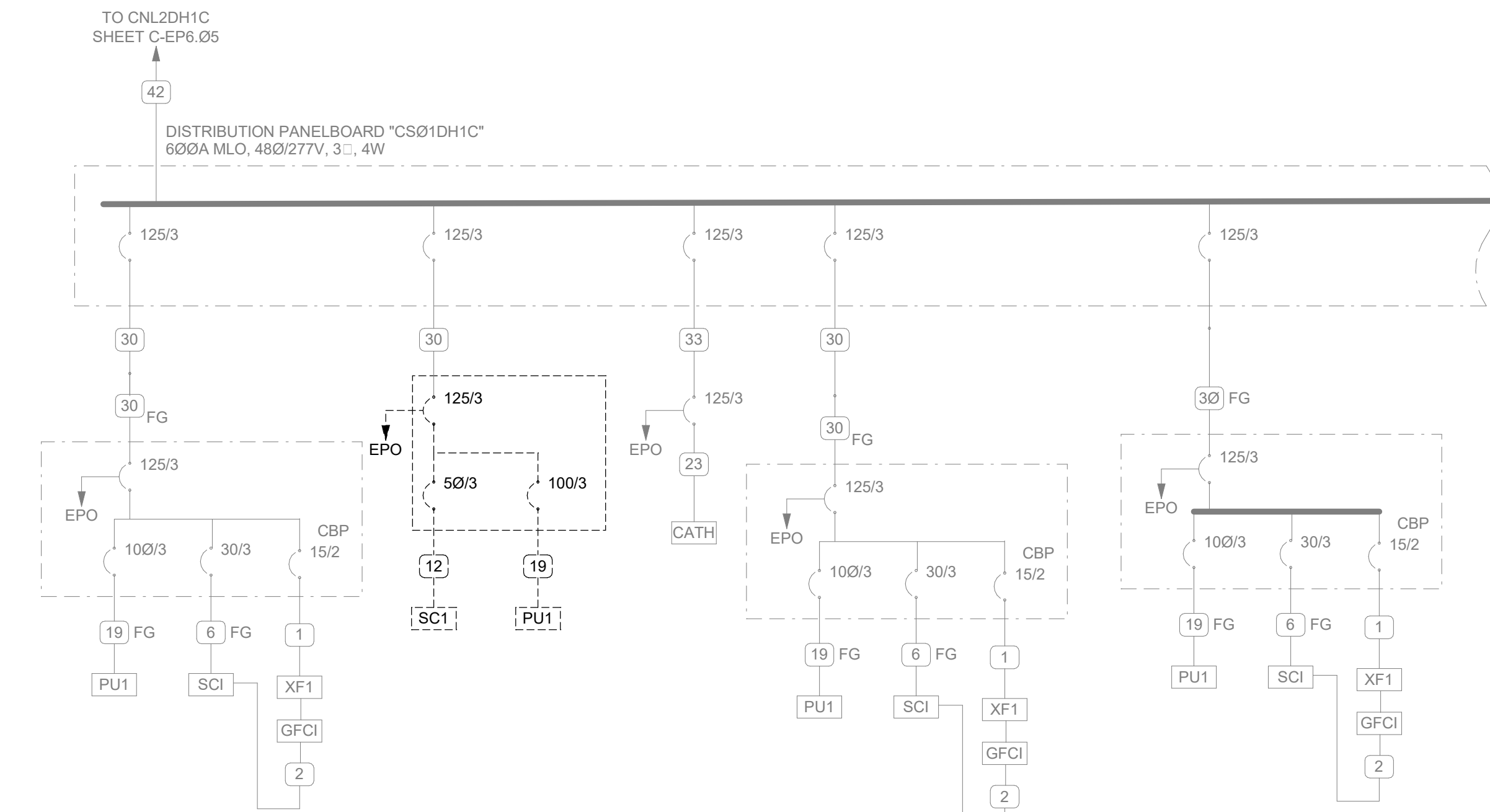
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--------------|--|------|--|---------------|--|---------|--|---|--|----------------------------|--|--------------|--|------|--|---------|--|--------------|--|-------------|--|------|--|-----|--|--------------|--|------|--|-------|--|
| CLIENT: | | | | | | JOB: | | | | 12/8/2021 | | | | CIRCUITS: 32 | | | | | | | | | | | | | | | | | | | |
| PANEL ID: CL1B | | MOUNT: FLUSH | | | | TYPE: BOLT-ON | | BOLT-ON | | 120 VOLT 1 PHASE 3 WIRE ISOLATION PANEL | | | | | | | | | | | | | | | | | | | | | | | |
| 50 AMPERE MAIN | | BREAKER | | | | LOCATION: | | | | | | PANEL SIZE: 72"Hx32"Wx12"D | | | | | | | | | | | | | | | | | | | | | |
| ACCESSORIES: PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR, LINE ISOLATION MONITOR, 7.5 KVA, 208-120 VOLT TRANSFORMER, INDICATOR ALARMS, INDICATOR LIGHTS, STAINLESS STEEL COVER (BOTH PANEL SECTIONS UNDER COMMON COVER) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CRITICAL BRANCH B | | | | | | SECTION 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CIR # | | O/C PROT AMP | | POLE | | OUTLETS LTG | | CO'S | | PWR | | DESCRIPTION | | LCL KVA | | LOAD | | LCL KVA | | DESCRIPTION | | OUTLETS LTG | | CO'S | | PWR | | O/C PROT AMP | | POLE | | CIR # | |
| 1 | | 20 | | 2 | | | | 2 | | | | FLOOR PEDASTAL CO | | 0.4 | | 1.6 | | 1.2 | | WEST CO | | | | 6 | | | | 20 | | 2 | | 2 | |
| 3 | | 20 | | 2 | | | | 4 | | | | BOOM CO | | 0.8 | | 1.6 | | 0.8 | | WEST CO | | | | 4 | | | | 20 | | 2 | | 4 | |
| 5 | | 20 | | 2 | | | | 4 | | | | BOOM CO | | 0.8 | | 1.8 | | 1 | | LIGHT BOOM | | 1 | | | | | | 20 | | 2 | | 6 | |
| 7 | | 20 | | 2 | | | | 4 | | | | BOOM CO | | 0.8 | | 0.8 | | 0 | | | | | | | | | | 20 | | 2 | | 8 | |
| 9 | | 20 | | 2 | | | | 4 | | | | BOOM CO | | 0.8 | | 0.8 | | 0 | | SPARE | | | | | | | | 20 | | 2 | | 10 | |
| 11 | | 20 | | 2 | | | | | | | | SPARE | | 0 | | 0 | | 0 | | SPARE | | | | | | | | 20 | | 2 | | 12 | |
| 13 | | 20 | | 2 | | | | | | | | SPARE | | 0 | | 0 | | 0 | | SPARE | | | | | | | | 20 | | 2 | | 14 | |
| 15 | | 20 | | 2 | | | | | | | | SPARE | | 0 | | 0 | | 0 | | SPARE | | | | | | | | 20 | | 2 | | 16 | |
| TOTALS: | | | | | | KVA | | | | | | | | | | 6.6 | | | | TOTAL KVA | | | | | | | | | | | | 6.6 | |
| | | | | | | AMPS | | | | | | | | | | 55 | | | | AVERAGE AMPS | | | | | | | | | | | | 28 | |

BRANCH CIRCUIT CONDUCTOR AND CONDUIT SIZING TABLE

| CIRCUIT AMPACITY/VOLTAGE | CIRCUIT LENGTH | CONDUCTOR SIZE (PHASE, NEUTRAL AND GR) | CONDUIT SIZE |
|--------------------------|----------------|--|--------------|
| 20A/120V | 0' - 90' | #12 AWG | 0.75" Ø |
| 20A/120V | 60' - 95' | #10 AWG | 0.75" Ø |
| 20A/120V | 95' - 150' | #8 AWG | 1" Ø |
| 20A/120V | 150' - 240' | #6 AWG | 1.25" Ø |
| 20A/277V | 0' - 140' | #12 AWG | 0.75" Ø |
| 20A/277V | 140' - 220' | #10 AWG | 0.75" Ø |
| 20A/277V | 220' - 350' | #8 AWG | 1" Ø |
| 20A/277V | 350' - 550' | #6 AWG | 1.25" Ø |

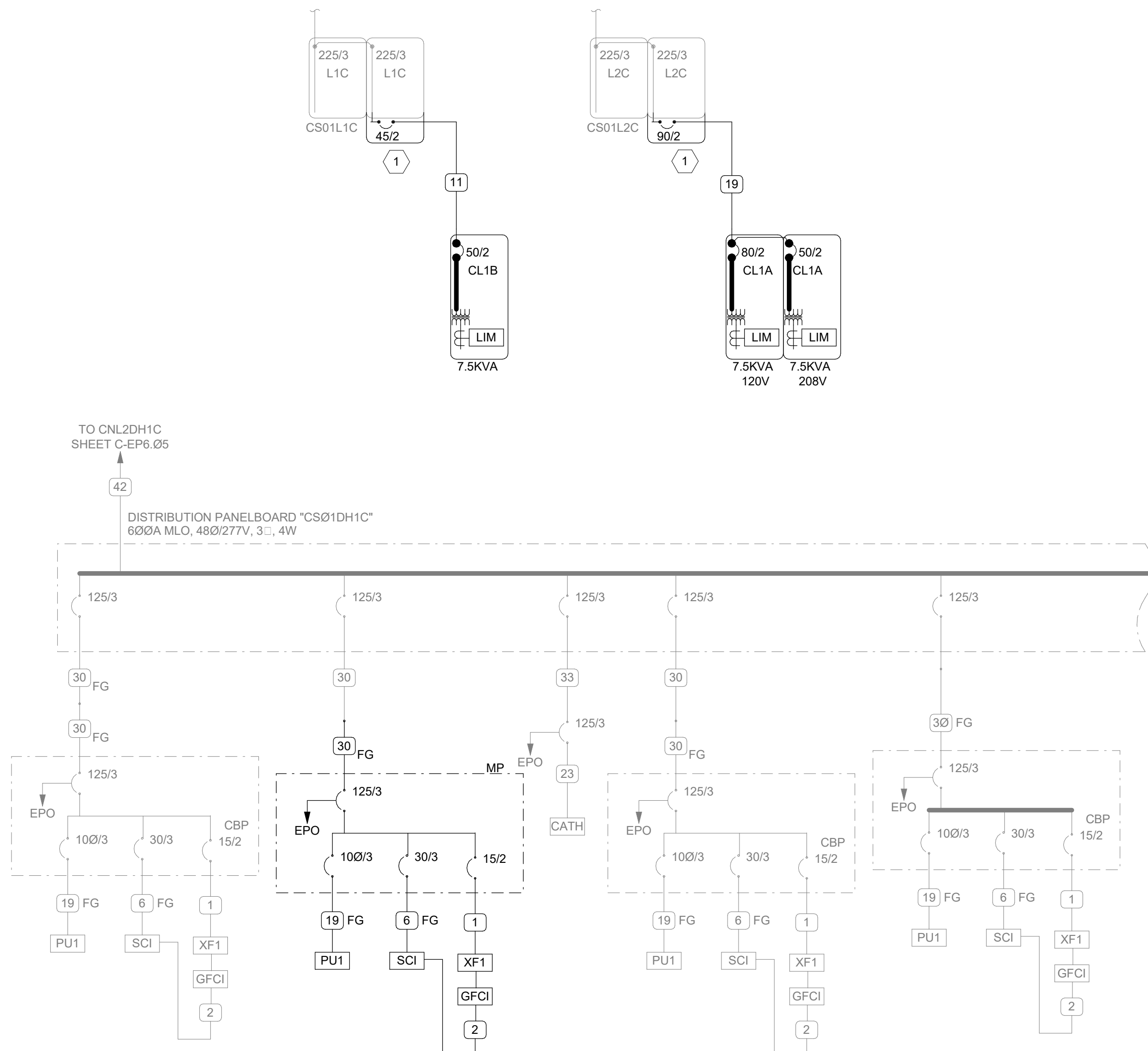
NOTES:

- WIRE SIZING IS BASED ON COPPER CONDUCTORS SUPPLYING A 20A, 120V CIRCUIT AT THE INDICATED VOLTAGE, ASSUMED TO BE 80% LOADED (16A), WITH MAXIMUM VOLTAGE DROP OF 3% AT THE LOAD.
- DOWN-SIZED WIRE AT DEVICE/LOAD AS REQUIRED AND TERMINATE CONDUCTORS IN A SAFE AND CODE COMPLIANT MANNER.
- CONDUIT SIZE IS BASED ON A MAXIMUM OF 3 CIRCUITS PER CONDUIT, EACH WITH A SEPARATE NEUTRAL CONDUCTOR.



1 DEMOLITION PLAN

SCALE: NTS



2 NEW ONE LINE DIAGRAM

SCALE: NTS

SHEET KEYNOTES

- PROVIDE NEW BREAKER IN EXISTING GE PANEL.

CONDUCTOR AND CONDUIT SCHEDULE

SCHEDULE NUMBER

(E.G.) 5 IG

SUBSCRIPT (NOTE 5)

| SYM | AMP | CONDUIT SIZE | QTY | SIZE | GR | IG | SE | NOTES |
|-----|------|--------------|-----|------|-----|-----|-----|-------|
| 1 | 20 | .75 | 2 | 12 | 12 | 12 | 8 | 2 |
| 2 | 20 | .75 | 3 | 12 | 12 | 12 | 8 | 2,3 |
| 3 | 20 | .75 | 4 | 12 | 12 | 12 | 8 | 2,3 |
| 4 | 30 | .75 | 2 | 10 | 10 | 10 | 8 | 2 |
| 5 | 30 | .75 | 3 | 10 | 10 | 10 | 8 | 2 |
| 6 | 30 | .75 | 4 | 10 | 10 | 10 | 8 | 2 |
| 7 | 40 | 1 | 2 | 8 | 10 | 8 | 6 | 2 |
| 8 | 40 | 1 | 3 | 8 | 10 | 8 | 6 | 2 |
| 9 | 40 | 1 | 4 | 8 | 10 | 8 | 6 | 2 |
| 10 | 55 | 1 | 2 | 6 | 10 | 8 | 4 | 2 |
| 11 | 55 | 1 | 3 | 6 | 10 | 8 | 4 | 2 |
| 12 | 55 | 1.25 | 4 | 6 | 10 | 8 | 4 | 2 |
| 13 | 70 | 1 | 2 | 4 | 8 | 4 | 2 | 2 |
| 14 | 70 | 1.25 | 3 | 4 | 8 | 4 | 2 | 2 |
| 15 | 70 | 1.25 | 4 | 4 | 8 | 4 | 2 | 2 |
| 16 | 85 | 1.25 | 2 | 3 | 8 | 3 | 2 | 2 |
| 17 | 85 | 1.25 | 3 | 3 | 8 | 3 | 2 | 2 |
| 18 | 85 | 1.25 | 4 | 3 | 8 | 3 | 2 | 2 |
| 19 | 95 | 1.25 | 3 | 2 | 8 | 2 | 2 | 2 |
| 20 | 95 | 1.50 | 4 | 2 | 8 | 2 | 2 | 2 |
| 21 | 130 | 1.50 | 3 | 1 | 6 | 2 | 2 | 2 |
| 22 | 130 | 1.50 | 4 | 1 | 6 | 2 | 2 | 2 |
| 23 | 150 | 2 | 3 | 1/0 | 6 | 2 | 1/0 | 2 |
| 24 | 150 | 2 | 4 | 1/0 | 6 | 2 | 1/0 | 2 |
| 25 | 175 | 2 | 3 | 2/0 | 6 | 2 | 2/0 | 2 |
| 26 | 175 | 2 | 4 | 2/0 | 6 | 2 | 2/0 | 2 |
| 27 | 200 | 2 | 3 | 3/0 | 6 | 2 | 2/0 | 2 |
| 28 | 200 | 2.50 | 4 | 3/0 | 6 | 2 | 2/0 | 2 |
| 29 | 230 | 2.50 | 3 | 4/0 | 4 | 2 | 2/0 | 2 |
| 30 | 230 | 2.50 | 4 | 4/0 | 4 | 2 | 2/0 | 2 |
| 31 | 255 | 2.50 | 3 | 250 | 4 | 1 | 2/0 | 2 |
| 32 | 255 | 2.50 | 4 | 250 | 4 | 1 | 2/0 | 2 |
| 33 | 310 | 3 | 3 | 350 | 3 | 1/0 | 3/0 | 2 |
| 34 | 310 | 3 | 4 | 350 | 3 | 1/0 | 3/0 | 2 |
| 35 | 380 | 3.50 | 3 | 500 | 3 | 3/0 | 3/0 | 2 |
| 36 | 380 | 4 | 4 | 500 | 3 | 3/0 | 3/0 | 2 |
| 37 | 400 | 2 EA 2 | 3 | 3/0 | 3 | 3/0 | 3/0 | 2 |
| 38 | 400 | 2 EA 2.50 | 4 | 3/0 | 3 | 3/0 | 3/0 | 2 |
| 39 | 510 | 2 EA 2.50 | 3 | 250 | 1 | 4/0 | 3/0 | 2 |
| 40 | 510 | 2 EA 3 | 4 | 250 | 1 | 4/0 | 3/0 | 2 |
| 41 | 620 | 2 EA 3 | 3 | 350 | 1/0 | 4/0 | 3/0 | 2,4 |
| 42 | 620 | 2 EA 3 | 4 | 350 | 1/0 | 4/0 | 3/0 | 2,4 |
| 43 | 760 | 2 EA 3.50 | 3 | 500 | 1/0 | 4/0 | 3/0 | 2,4 |
| 44 | 760 | 2 EA 4 | 4 | 500 | 1/0 | 4/0 | 3/0 | 2,4 |
| 45 | 855 | 3 EA 3 | 3 | 300 | 2/0 | 4/0 | 3/0 | 2,4 |
| 46 | 855 | 3 EA 3 | 4 | 300 | 2/0 | 4/0 | 3/0 | 2,4 |
| 47 | 1000 | 3 EA 3.50 | 3 | 400 | 2/0 | 4/0 | 3/0 | 4 |
| 48 | 1000 | 3 EA 3.50 | 4 | 400 | 2/0 | 4/0 | 3/0 | 4 |
| 49 | 1140 | 3 EA 4 | 3 | 500 | 3/0 | 4/0 | 3/0 | 4 |
| 50 | 1140 | 3 EA 4 | 4 | 500 | 3/0 | 4/0 | 3/0 | 4 |
| 51 | 1240 | 4 EA 3 | 3 | 350 | 3/0 | 4/0 | 3/0 | 4 |
| 52 | 1240 | 4 EA 3 | 4 | 350 | 3/0 | 4/0 | 3/0 | 4 |
| 53 | 1675 | 5 EA 4 | 4 | 400 | 4/0 | 4/0 | 4/0 | 4 |
| 54 | 2010 | 6 EA 4 | 4 | 400 | 250 | 250 | 250 | 4 |
| 55 | 2660 | 7 EA 4 | 4 | 500 | 350 | 350 | 350 | 4 |
| 56 | 3040 | 8 EA 4 | 4 | 500 | 500 | 500 | 500 | 4 |
| 57 | 4180 | 11 EA 4 | 4 | 500 | 500 | 500 | 500 | 4 |
| 58 | | 5 EA 4 | | | | | | 6 |
| 59 | | 5 | | | | | | 6 |
| 60 | | 10 EA 4 | | | | | | 6 |

CONDUCTOR AND CONDUIT SCHEDULE NOTES

- CONDUCTORS SHOWN ARE SHOWN FOR EACH CONDUIT WITH MODIFICATIONS AS NOTED IN NOTE 4. ALL CONDUCTORS SHOWN ARE THWN UNLESS OTHERWISE NOTED.
- PROVIDE EQUIPMENT GROUND CONDUCTORS PER TABLE 250-122 WHEN CIRCUIT BREAKERS ARE SIZED GREATER THAN AMPERE RATING SHOWN IN TABLE.
- PROVIDE #10 NEUTRALS FOR MULTIWIRED BRANCH CIRCUITS SERVING COMPUTERS.
- SYMBOL SUBSCRIPTS:

"2N": INCLUDE TWO NEUTRAL CONDUCTORS, SIZED AS SCHEDULED FOR PHASED AND NEUTRAL CONDUCTORS.

"FG": FULL SIZE GROUND, SIZE EQUIPMENT GROUNDING CONDUCTOR TO BE THE SAME SIZE AS THE PHASE CONDUCTORS.

"HH": NEUTRAL CURRENTS EXIST DUE TO HIGH HARMONIC "NONLINEAR" LOADS. CURRENT CARRYING CONDUCTORS DERATED ACCORDINGLY. PROVIDE THE IGHH SIZE FOR THE EQUIPMENT GROUNDING CONDUCTOR.

"IG": INCLUDE IG (INSULATED/ISOLATED GROUND CONDUCTOR) SCHEDULED ALONG WITH GROUND OF EQUIPMENT GROUND CONDUCTOR.

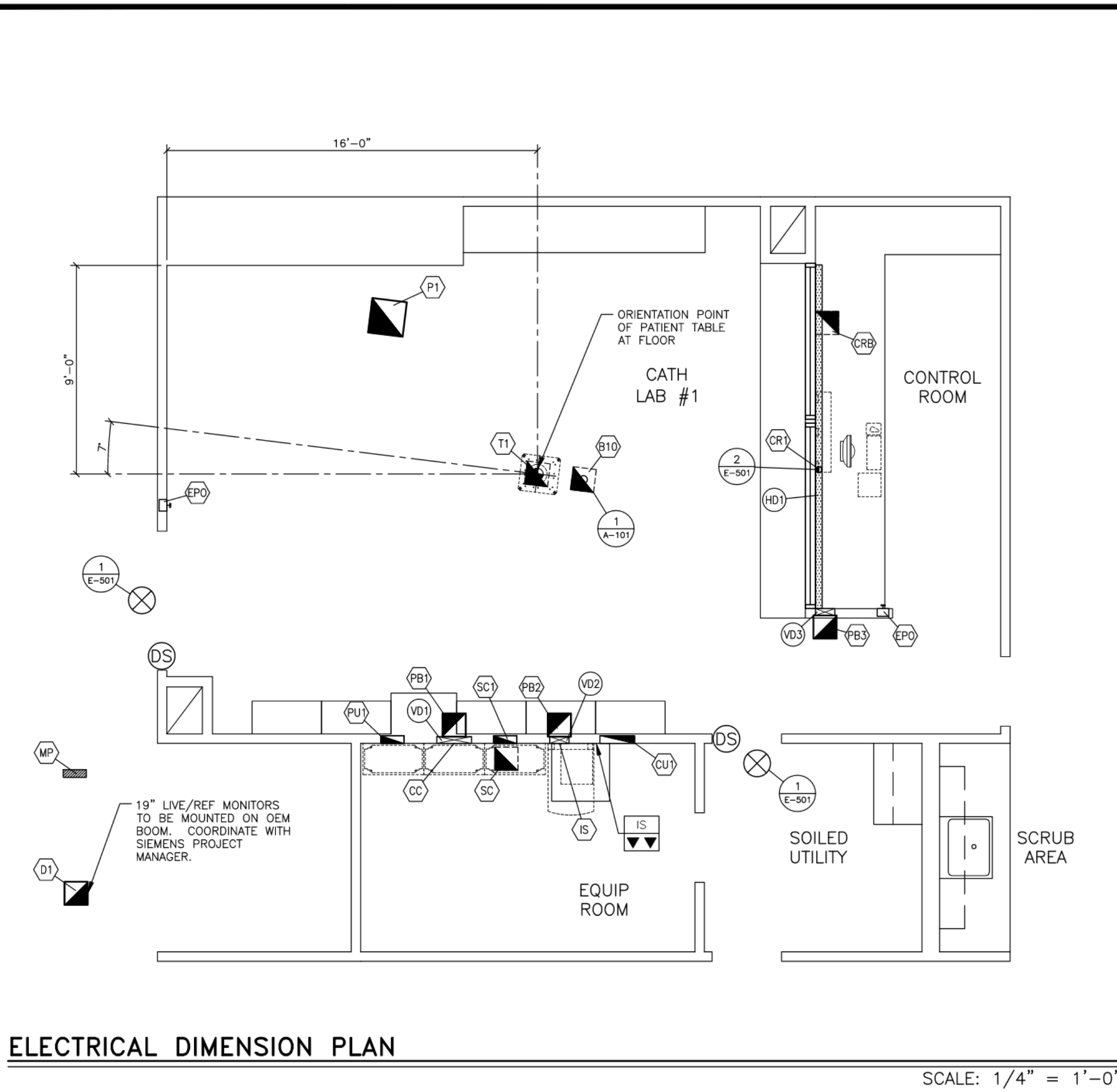
"SE": SUBSTITUTE "SE" CONDUCTOR FOR "G" CONDUCTOR SHOWN, WHICH IS SIZED FOR THE GROUNDING OF THE SECONDARY OF THE SEPARATELY DERIVED SYSTEM.



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REFERENCE DOCUMENT - NOT FOR CONSTRUCTION



ELECTRICAL DIMENSION PLAN

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

| SYMBOLS | |
|-------------------|---|
| ALL MAY NOT APPLY | |
| | CIRCUIT BREAKER BY CUSTOMER/CONTRACTOR |
| | OPENING IN RACEWAY OR TRENCH/DUCT |
| | PULLBOX IN (FLOOR/WALL/CEILING) |
| | OPENING IN ACCESS FLOORING |
| | WARNING LIGHT (X-RAY ON) |
| | DOOR SAFETY SWITCH |
| | (EPO) EMERGENCY POWER OFF BUTTON |
| | TRENCH DUCT |
| | CEILING DUCT |
| | UNDER FLOOR DUCT |
| | SURFACE DUCT |
| | VERTICAL DUCT |
| | ETHERNET CONNECTION TO CUSTOMER'S INFORMATION SYSTEMS NETWORK (VERIFY WITH SMS PROJECT MANAGER) |
| | 110 VOLT, 20 AMP, HOSPITAL GRADE DUPLEX OUTLET |
| | 110 VOLT, 20 AMP, HOSPITAL GRADE QUAD OUTLET |

ATTENTION:

-THIS DRAWING IS DESIGNED TO CONFORM TO FEATURES AND EQUIPMENT REQUIREMENTS PRESENTED AT THE TIME OF THEIR PREPARATION. SINCE BOTH THESE FACTORS ARE SUBJECT TO DESIGN MODIFICATION, THEY ARE NOT TO BE USED FOR CONSTRUCTION PURPOSES.

-IT IS RECOMMENDED THAT THE SIEMENS DRAWINGS BE INCORPORATED WITH THE CONSTRUCTION DOCUMENTS FOR REFERENCE.

-ALL DIMENSIONS SHOWN ON THIS DRAWING ARE FROM FINISHED SURFACES.

-THIS DRAWING DOES NOT PROVIDE RADIATION SHIELDING REQUIREMENTS FOR X-RAY AND ASSOCIATED EQUIPMENT. THE CUSTOMER IS RESPONSIBLE FOR CONSULTING WITH A REGISTERED RADIATION PHYSICIST TO SPECIFY RADIATION PROTECTION.

| ELECTRICAL LEGEND | | | |
|-------------------|-------------|--|-------------------------------|
| SYM | SIZE | DESCRIPTION | REMARKS |
| 15 | EXISTING | PULL BOX MOUNTED BELOW FINISHED FLOOR WITH REMOVABLE BOTTOM COVER, WITH 4\"/> | TABLE ACCESSORIES |
| 16 | EXISTING | BUSHED OPENING IN VERTICAL DUCT \"D1\" COVER AT FLOOR LINE. | CABLE CABINET |
| 17 | EXISTING | BUSHED OPENING IN TOP OF HORIZONTAL DUCT \"D1\". | CONTROL ROOM DISTRIBUTOR |
| 18 | EXISTING | PULL BOX MOUNTED BELOW FINISHED FLOOR WITH REMOVABLE BOTTOM COVER, WITH 3\"/> | CONTROL ROOM UNDER-FLOOR BOX |
| 19 | EXISTING | PULL BOX MOUNTED FLUSH IN FINISHED WALL AT FLOOR LINE, WITH REMOVABLE FRONT COVER AND (1) 4\"/> | COOLING UNIT |
| 20 | AS REQUIRED | PULL BOX MOUNTED ABOVE FINISHED CEILING WITH REMOVABLE BOTTOM COVER, WITH 3\"/> | BOOM DVI 2x8WD-19D (live+ref) |
| 21 | ---- | EMERGENCY OFF BUTTONS FOR CIRCUIT BREAKERS. EPO'S MUST PREVENT RESETTING OF CIRCUIT BREAKERS WHEN IN OFF POSITION. EPO'S MUST BE RECESSED OR SHIELDED. FINAL LOCATION DETERMINED BY CUSTOMER | EMERGENCY POWER OFF |
| 22 | EXISTING | BUSHED OPENING IN VERTICAL DUCT \"D3\" COVER AT FLOOR LINE. | IMAGE SYSTEM |
| 23 | ---- | MAIN PANEL WITH MAIN BREAKER. LOCATION DETERMINED BY CUSTOMER/CONTRACTOR. SEE \"POWER SCHEDULE\" | BREAKER PANEL |
| 24 | EXISTING | PULL BOX MOUNTED ABOVE AND CONNECTING TO VERTICAL DUCT \"D1\". | PULL BOX |
| 25 | EXISTING | PULL BOX MOUNTED ABOVE AND CONNECTING TO VERTICAL DUCT \"D2\". | PULL BOX |
| 26 | EXISTING | PULL BOX MOUNTED ABOVE AND CONNECTING TO VERTICAL DUCT \"D3\". | PULL BOX |
| 27 | EXISTING | PULL BOX MOUNTED ABOVE FINISHED CEILING, WITH REMOVABLE BOTTOM COVER WITH 8\"/> | C-ARM |
| 28 | EXISTING | PULL BOX MOUNTED FLUSH IN FINISHED WALL AT FLOOR LINE, WITH REMOVABLE FRONT COVER WITH 4\"/> | GENERATOR |
| 29 | EXISTING | PULL BOX MOUNTED FLUSH IN FINISHED WALL AT FLOOR LINE, WITH REMOVABLE FRONT COVER WITH 4\"/> | SYSTEM CABINET |
| 30 | EXISTING | PULL BOX MOUNTED BELOW FINISHED FLOOR WITH REMOVABLE BOTTOM COVER. PROVIDE 6\"/> | SYSTEM CABINET |
| 31 | EXISTING | CONDUIT FROM EXISTING BOX TO FLUSH WITH FINISHED FLOOR WITH BUSHING AT FLOOR LINE. | TABLE |
| 32 | EXISTING | HORIZONTAL DUCT MOUNTED ON FINISHED WALL AT FLOOR LINE (WITH REMOVABLE FRONT COVER), CONNECTED TO VERTICAL DUCT \"D3\" AS SHOWN. | HORIZONTAL WALL DUCT |
| 33 | EXISTING | VERTICAL DUCT MOUNTED FLUSH IN FINISHED WALL, BEGINNING AT FLOOR LINE AND EXTENDING UP WALL ABOVE FINISHED CEILING. DUCT EXTENDS TO \"PB1\" FOR CONDUIT TRANSITIONS. | VERTICAL DUCT |
| 34 | EXISTING | VERTICAL DUCT MOUNTED FLUSH IN FINISHED WALL, BEGINNING DUCT AT FLOOR LINE AND EXTENDING UP WALL ABOVE FINISHED CEILING. DUCT EXTENDS TO \"PB2\" & \"PB3\" FOR CONDUIT TRANSITIONS. | VERTICAL DUCT |
| 35 | 3\"/> | CONDUIT FROM \"PB1\" (SC1) TO \"D1\" | MAX. CONDUIT LENGTH 47' |
| 36 | 2 1/2\"/> | CONDUIT FROM \"PB2\" (IS) TO \"D1\" (NOT WITH DCS LD) | MAX. CONDUIT LENGTH 58' |
| 37 | 3\"/> | CONDUIT FROM \"T11\" TO \"B10\" UNDER FLOOR | |
| 38 | 2\"/> | CONDUIT FROM \"PB2\" (IS) TO \"CUSTOMER MONITOR\" (LIVE+REF VIDEO TO DEM OPTION) | MAX. CONDUIT LENGTH 80' |

ELECTRICAL NOTES

- 1) COMPLIANCE: ELECTRICAL WORK SHALL BE IN COMPLIANCE WITH THE NATIONAL ELECTRICAL CODE (NFPA-70), O.S.H.A. REGULATIONS, AS WELL AS APPLICABLE REGULATIONS OF CITY, COUNTY, STATE AND FEDERAL AGENCIES. PROVIDE MATERIALS AND EQUIPMENT THAT COMPLY WITH ANSI, IEEE AND NEMA STANDARDS AND ARE U.L. LISTED AND LABELED. THE CUSTOMER'S/CONTRACTOR'S WORK AND ALL EQUIPMENT INSTALLED SHALL COMPLY WITH THE CURRENT EDITION OF THE NATIONAL ELECTRICAL CODE ADOPTED/ENFORCED BY THE AUTHORITY HAVING JURISDICTION.
- 2) QUALITY ASSURANCE: THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN THE FIELD TO INSURE THAT THE NEW WORK WILL FIT INTO THE EXISTING STRUCTURE AS SHOWN ON THE DRAWINGS. SHOULD ANY CONDITIONS EXIST OR BE DISCOVERED THAT PREVENT THE INSTALLATION OF WORK AS SHOWN, THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE PRIOR TO FABRICATION OF EQUIPMENT, OR THE PERFORMANCE OF ANY WORK THAT MAY BE AFFECTED. DO NOT ALTER DRAWINGS, DIMENSIONS, OR SPECIFICATIONS IN ANY WAY WITHOUT CONTACTING AND RECEIVING WRITTEN CONFIRMATION FROM SIEMENS PROJECT MANAGER. ALL DIMENSIONS ARE FROM FINISHED SURFACES. CONDUIT AND PULL BOXES TO BE INSTALLED BY THE CUSTOMER/CONTRACTOR WITH LOCATIONS BEING FIELD VERIFIED BY THE SIEMENS PROJECT MANAGER.
- 3) POWER SUPPLY SOURCE: POWER SUPPLIES FOR SIEMENS HEALTHCARE EQUIPMENT SHALL BE FROM A MEDICAL IMAGING PANEL OR BUILDING SERVICE EQUIPMENT THAT IS A GROUNDED 3 OR 4-WIRE WYE SOURCE PER THE SPECIFIC EQUIPMENT OPERATION REQUIREMENTS. A DEDICATED CIRCUIT SHALL BE PROVIDED THAT IS KEPT ENTIRELY FREE AND INDEPENDENT OF ALL OTHER BUILDING WIRING, NO ELEVATORS, GENERATORS, PUMPS, HVAC OR SIMILAR EQUIPMENT SHALL BE CONNECTED TO THE SAME CIRCUIT OR MEDICAL IMAGING PANEL THAT SERVES THE SIEMENS HEALTHCARE EQUIPMENT. IF THE POWER SUPPLY SOURCE DOES NOT MEET THE SPECIFIC SIEMENS EQUIPMENT POWER REQUIREMENTS, THE CONTRACTOR SHALL PROVIDE THE NECESSARY EQUIPMENT REQUIRED TO ESTABLISH THE POWER SUPPLY TO ACCORDANCE WITH THE REQUIRED POWER SUPPLY PARAMETERS OF THE SIEMENS EQUIPMENT. THE CONTRACTOR SHALL COORDINATE THIS WORK WITH THE CUSTOMER AND/OR UTILITY COMPANY FIELD REPRESENTATIVE.
- 4) WORK FURNISHED BY CUSTOMER/CONTRACTOR: WORK NOT PROVIDED BY SIEMENS HEALTHCARE BUT SHOWN ON DRAWINGS TO BE FURNISHED AND INSTALLED BY CUSTOMER/CONTRACTOR INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING, UNLESS NOTED OTHERWISE: ELECTRICAL RACEWAYS AND DUCTS, WIRING TROUGHS, PULL BOXES, CONDUITS, CIRCUIT BREAKERS, ACCESS PANELS, EMERGENCY OFF BUTTONS, DOOR SWITCHES, WARNING LIGHTS, WIRING DEVICES, CONNECTORS, LIGHTING EQUIPMENT AND GROUNDING.
- 5) RACEWAY AND CONDUIT NOTES: ALL CONDUITS SHALL BE INSTALLED IN COMPLIANCE WITH THE CURRENT ENFORCED EDITION OF THE NATIONAL ELECTRICAL CODE. CONDUIT BODIES SHALL NOT BE USED, WHERE A CONDUIT ENTERS A BOX, FITTING, OR OTHER ENCLOSURE, AN INSULATED THROAT CONNECTOR SHALL BE PROVIDED TO PROTECT THE WIRE FROM ABRASION. ALL CONNECTORS FOR EMT SHALL BE COMPRESSION OR DOUBLE SET SCREW TYPE.
- 6) KEEP RACEWAYS AT LEAST 6 INCHES AWAY FROM PARALLEL RUNS OF FLUES OR STEAM AND HOT WATER PIPES. INSTALL RACEWAY RUNS ABOVE WATER AND STEAM PIPES PROVIDED THAT CABLE RUN DISTANCES ARE MAINTAINED. USE TEMPORARY CLOSURES TO PREVENT FOREIGN MATTER FROM ENTERING RACEWAY.
- 7) CONDUIT RUNS ARE SHOWN SCHEMATICALLY. INSTALL CONDUIT WITH A MINIMUM OF BENDS IN THE SHORTEST PRACTICAL DISTANCE CONSIDERING THE BUILDING CONSTRUCTION AND OBSTRUCTIONS, EXCEPT AS OTHERWISE INDICATED. THE CONTRACTOR SHALL MAKE CERTAIN THAT ALL RACEWAY CONDUIT/RACEWAY RUNS CONTAINING SIEMENS HEALTHCARE CABLES DO NOT EXCEED THE SPECIFIED MAXIMUM DISTANCES AS SHOWN ON THE ELECTRICAL DETAILS. LISTED CONDUIT SIZES FOR SIEMENS-SUPPLIED CABLES MUST BE MAINTAINED IN ORDER TO ENABLE THE TOTAL CABLE BUNDLE INCLUDING CONNECTORS TO BE PULLED THROUGH WITHOUT DAMAGE.
- 8) PROVIDE ENCLOSED METAL WIRE DUCT RACEWAY SYSTEM WHERE SHOWN ON DRAWINGS WITH DIVIDERS TO SEPARATE THE DUCT INTO TWO OR THREE SEPARATE COMPARTMENTS AS SHOWN ON THE SIEMENS PLANS (FOR POWER AND SIEMENS HEALTHCARE CABLEING). DIVIDERS AND CROSSOVER PIECES TO BE PROVIDED AS NECESSARY. THE CABLE TO CABLE AS WELL AS THE CIRCUIT TO CIRCUIT SEPARATION REQUIREMENT WAS EVALUATED DURING THE UL SYSTEM CERTIFICATION OF THE EQUIPMENT. ADDITIONAL SEPARATION OF THE SYSTEM CABLE ASSEMBLIES INTO SEPARATE OR PARTITIONED RACEWAYS, UNLESS OTHERWISE NOTED, IS NOT NECESSARY TO INSURE SEPARATION OF CIRCUITS.
- 9) PROVIDE WIRE DUCT/RACEWAY WITH ACCESSIBLE REMOVABLE COVERS. LOCATIONS OF BUILDING MATERIAL OPENINGS (I.E. ACCESS PANELS) TO BE CUT IN FIELD ARE TO BE COORDINATED WITH THE DRAWING REQUIREMENTS AND BUILDING STRUCTURE. THOSE THAT ARE NOT INDICATED OR INTERFERE WITH BUILDING ELEMENTS SHALL BE COORDINATED WITH SIEMENS PROJECT MANAGER. ELECTRICAL PULL BOXES AND RACEWAY COVERS SHALL BE INSTALLED IN A MANNER TO ALLOW ACCESSIBILITY FOR INSTALLATION AND MAINTENANCE. CONTRACTORS MUST PROVIDE PULL STRINGS FOR ALL CONDUIT AND WIRE DUCT/RACEWAY. IN-FLOOR TRENCH DUCT AND FLUSH FLOOR BOXES SHALL BE PROVIDED WITH FULLY GASKETED REMOVABLE COVERS.
- 10) WHEN JUNCTION BOXES AND WIRE DUCT/RACEWAY ARE MOUNTED HIGHER THAN 14 FEET ABOVE FINISHED FLOOR, THE ELECTRICAL CONTRACTOR SHALL PROVIDE TWO ELECTRICIANS TO HELP THE SIEMENS INSTALLERS PULL SIEMENS SUPPLIED CABLES AT CUSTOMER'S EXPENSE. WHEN JUNCTION BOXES AND WIRE DUCT/RACEWAY ARE MOUNTED ABOVE A HARD CEILING (I.E. SHEET ROCK), A 24\"/>
- 11) WIRING: ALL WIRING INSTALLED SHALL BE 600 VOLT CLASS, STRANDED TYPE, THIN/TWIST-2, SINGLE CONDUCTOR ANNEALED COPPER FOR A MAXIMUM OPERATING TEMPERATURE OF 90° C (194° F), SIZED AS INDICATED, INSTALLED IN METAL RACEWAYS. THE CUSTOMER/CONTRACTOR SHALL LEAVE A MINIMUM 10 FEET OF WIRE TAILS AT ALL OUTLET POINTS WITH WIRE IDENTIFICATION TAGGED AT BOTH ENDS FOR FINAL CONNECTION BY THE CUSTOMER/ELECTRICAL CONTRACTOR.
- 12) SHORT CIRCUIT REQUIREMENTS: ALL CIRCUIT BREAKERS SUPPLIED FOR THE SIEMENS EQUIPMENT REQUIREMENTS SHALL BE RATED HIGHER THAN THE SHORT CIRCUIT AVAILABLE AT THE TERMINALS OF THE ELECTRICAL EQUIPMENT AS DETERMINED BY THE ENGINEER OF RECORD, BUT NOT LESS THAN 35,000A RMS SYMMETRICAL AT 480V, 3-PHASE, 60 HERTZ. THE CONTRACTOR SHALL OBTAIN THE CORRECT SHORT CIRCUIT CURRENT RATING OF ALL THE NEW EQUIPMENT FOR INSTALLATION FROM THE ENGINEER OF RECORD.

CONDUIT LENGTH CALCULATIONS

IF SITE-SPECIFIC CONDITIONS EXCEED THE FOLLOWING ASSUMED VALUES, THEN ADDITIONAL LENGTH MUST BE SUBTRACTED BY THE ELECTRICAL CONTRACTOR FROM THE MAXIMUM CONDUIT LENGTHS LISTED.

IF DUCT LOCATIONS ARE ALTERED FROM THE SHOWN LAYOUT, IT IS THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO RECALCULATE THE MAXIMUM CONDUIT LENGTHS.

ASSUMED VALUES USED IN CALCULATING STATED MAXIMUM CONDUIT LENGTHS:

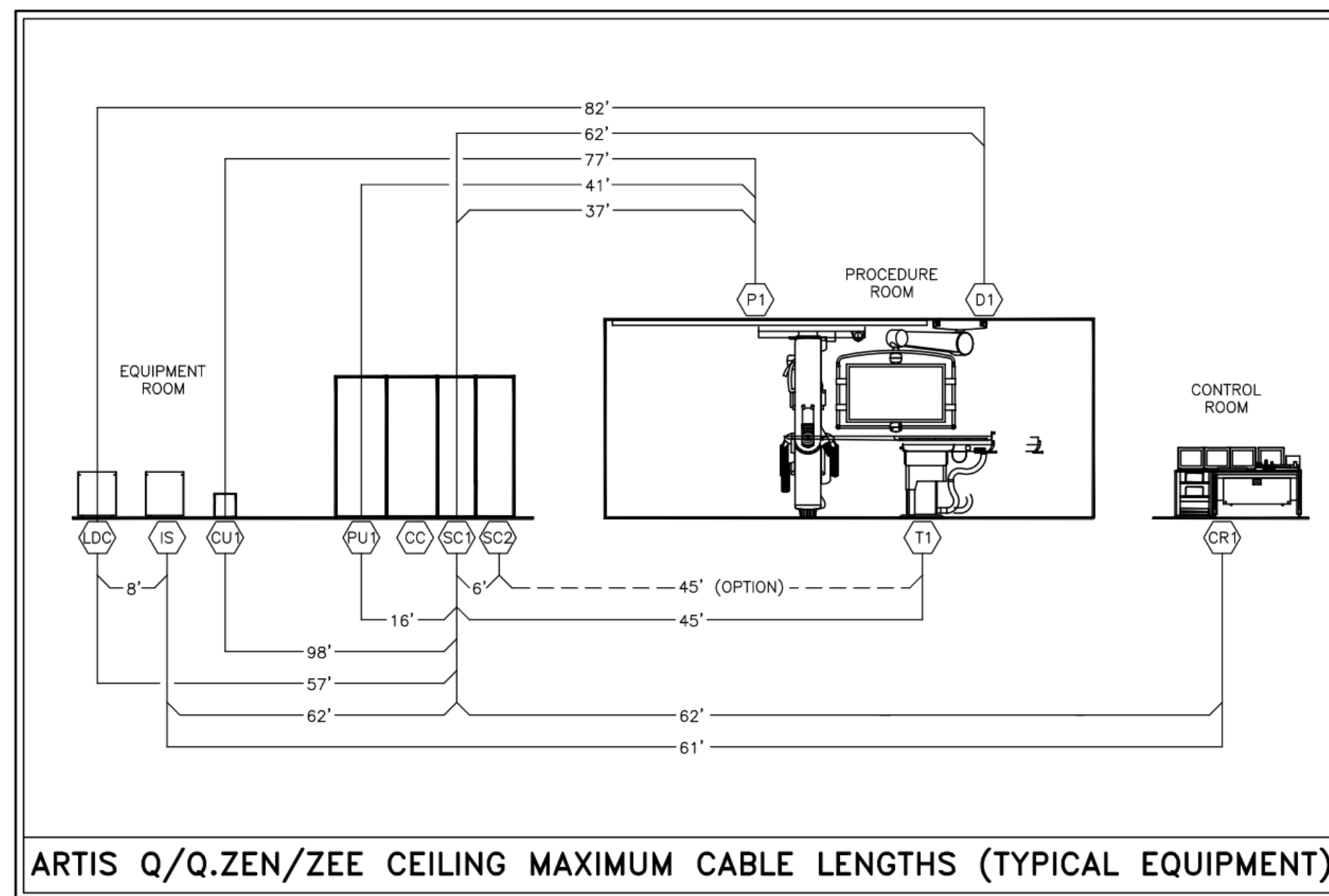
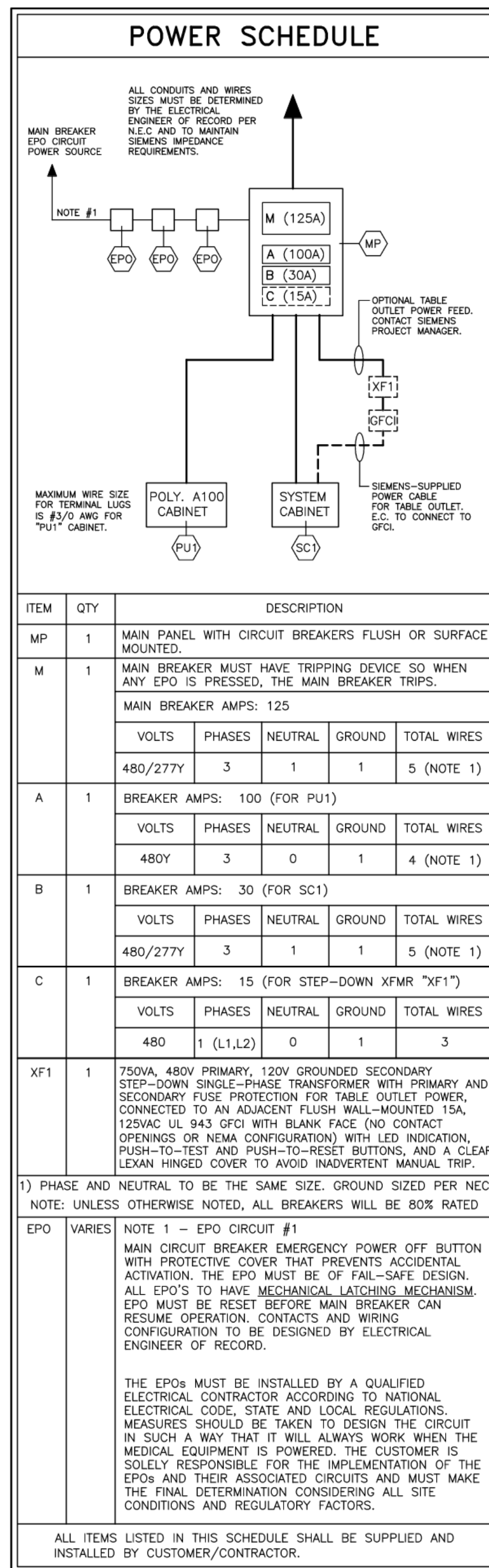
VERTICAL DUCTS = 12'-0"

FLOOR PENETRATIONS = 3'-0"

CEILING
HEIGHT
REQUIREMENT
8 FT. - 11 IN.

| | | | | |
|--|--|--|--|--|
| | | | PROJECT MANAGER: CHRISTOPHER THOMAS TEL: (801) 209-0562 EXT: VMAIL: FAX: EMAIL: CHRISTOPHER.THOMAS@SIEMENS-HEALTHINEERS.COM | |
| | | | SIEMENS | |
| | | | INTERMOUNTAIN MEDICAL CENTER | |
| | | | 5121 COTTONWOOD ST. MURRAY, UT 84107 CATH LAB #1 / ARTIS QZEN CEILING | |
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| | | | PROJECT #: 2100316 | |
| | | | SHEET: E-102 | |
| | | | SHEET 5 OF 7 DATE: 04/12/21 DRAWN BY: O. CARRILLO | |
| | | | SCALE: AS NOTED REV: CP-192529 | |

| SYM | DATE | DESCRIPTION |
|---------------|------|-------------|
| -ISSUE BLOCK- | | |



POWER REQUIREMENTS

WIRING SYSTEM: 480Y/277V, 3 PHASE, 5-WIRE, 60 HZ.

MINIMUM POWER SUPPLY:

IF AN ON-SITE TRANSFORMER IS REQUIRED TO OBTAIN OPERATING VOLTAGE, IT MUST BE OF SUFFICIENT CAPACITY AND CHARACTERISTICS TO MAINTAIN SUPPLY VOLTAGE AND IMPEDANCE REQUIREMENTS (TRANSFORMER AND CONDUCTORS).

| | |
|---|------------|
| X-RAY GENERATOR (PUI) MOMENTARY RATING: (RADIOGRAPHIC EXPOSURE) | 162 KVA |
| X-RAY GENERATOR (PUI) LONG-TIME RATING: (FLUOROSCOPY) | 14 KVA |
| SYSTEM CABINET (SC1) LONG-TIME RATING: | 8.5 KVA |
| LINE IMPEDANCE | ≤ 120 (mΩ) |

POWER QUALITY PARAMETERS

| | |
|--------------------------------|------------------------|
| MAXIMUM LINE VOLTAGE VARIATION | ±10% OF SYSTEM VOLTAGE |
| PHASE IMBALANCE | ±2% |
| FREQUENCY VARIATION | ± 1 HZ |

POWER SUPPLY NOTES:

1. INCOMING POWER SUPPLIES FOR SIEMENS EQUIPMENT SHOULD BE DEDICATED (BACK TO SOURCE), ISOLATED AND INSULATED FROM ANY OTHER EQUIPMENT SUCH AS ELEVATORS, GENERATORS, HVAC SYSTEMS, ETC.
2. SIEMENS HEALTHCARE REQUIRES THAT THE INCOMING POWER MEETS THE POWER QUALITY REQUIREMENTS.

GROUNDING NOTES

EQUIPMENT GROUNDING CONDUCTOR TO COMPLY WITH THE FOLLOWING:

- 1) SIZE GROUNDING WIRE TO SIEMENS EQUIPMENT PER POWER SCHEDULE REQUIREMENTS.
- 2) DERIVED FROM THE ELECTRICAL SERVICE, TRANSFORMER OR MAIN DISTRIBUTION PANEL FEEDING THE SIEMENS EQUIPMENT.
- 3) RUN IN THE SAME CONDUIT, TROUGH OR RACEWAY AS THE PHASE CONDUCTORS.
- 4) CONTINUOUS, WITH NO BREAKS OR USE OF CONDUIT, CHASSIS OR EARTH AS THE SOLE GROUNDING PATH.
- 5) BONDED TO CHASSIS AND/OR CONDUIT IN ACCORDANCE WITH THE NEC REQUIREMENTS.
- 6) MINIMIZE CONNECTIONS OR TERMINALS TO ENSURE CONTINUITY OVER THE LIFE OF THE INSTALLATION.
- 7) AS A NORM, THERE SHOULD NOT BE ANY CURRENT PRESENCE ON THE GROUND CONDUCTOR, BUT IT IS ACCEPTABLE TO HAVE <500mA DURING OPERATION OF THE IMAGING EQUIPMENT.

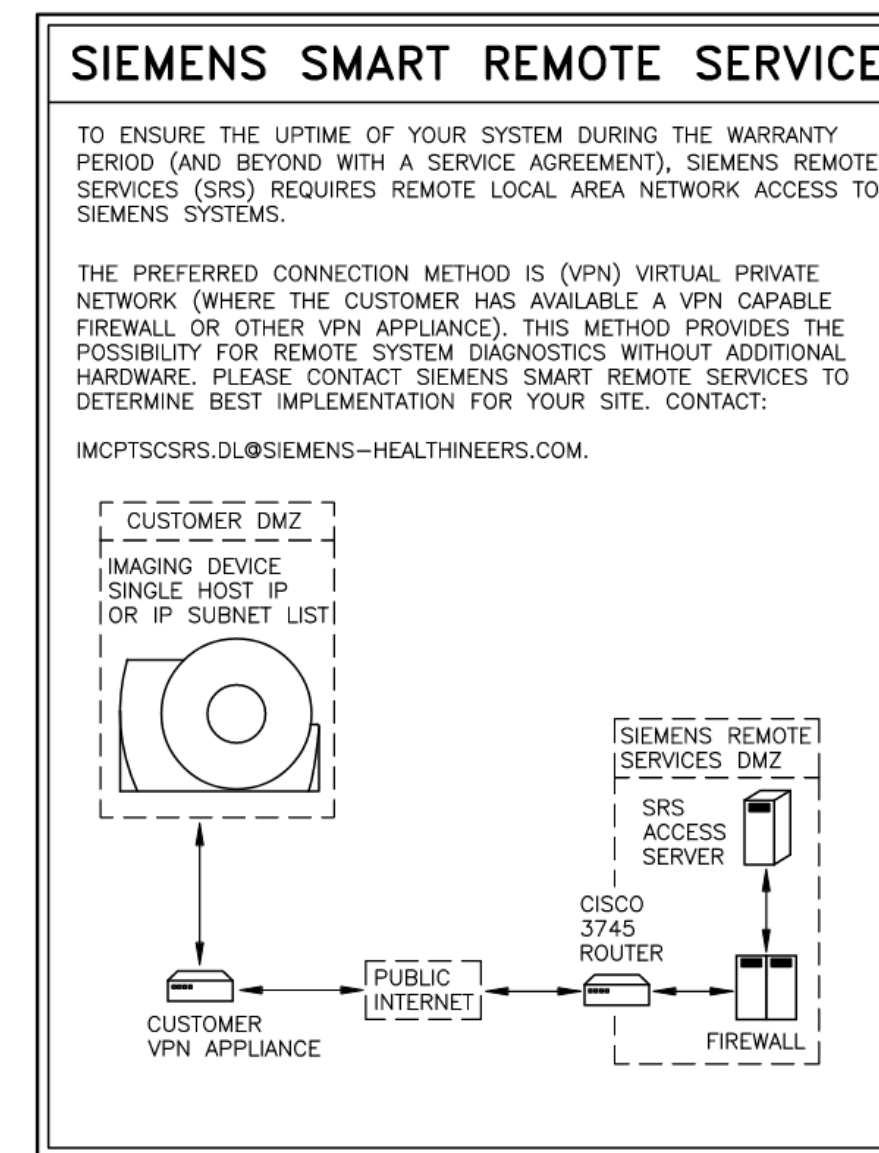
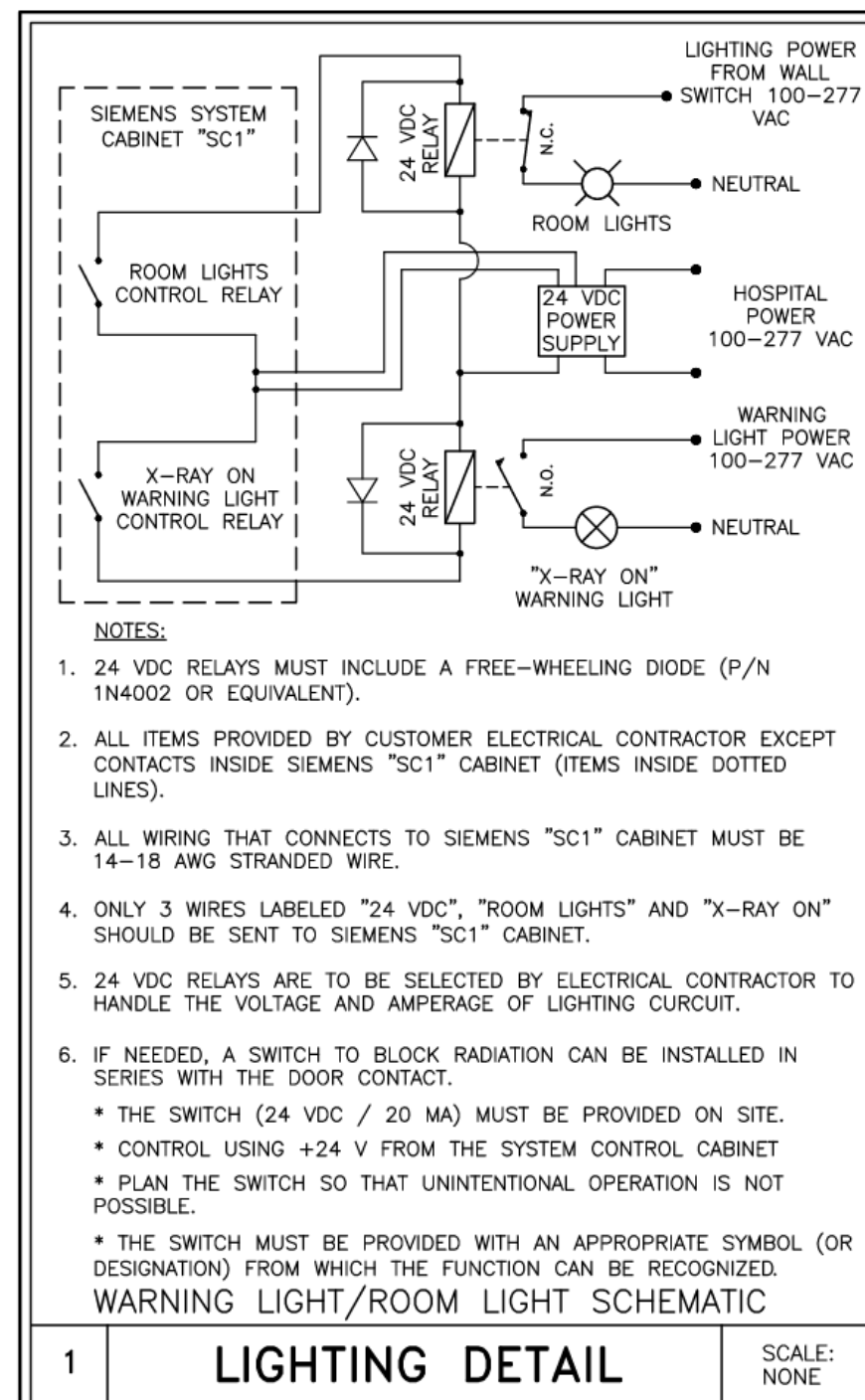
POWER QUALITY

POOR POWER WILL ALTER EQUIPMENT PERFORMANCE

IT IS IN THE CUSTOMER'S INTEREST THAT THE ELECTRICAL CONTRACTOR BE RESPONSIBLE FOR TESTING AND VERIFYING THAT THE EQUIPMENT POWER SUPPLY COMPLIES WITH THE SIEMENS SPECIFICATIONS.

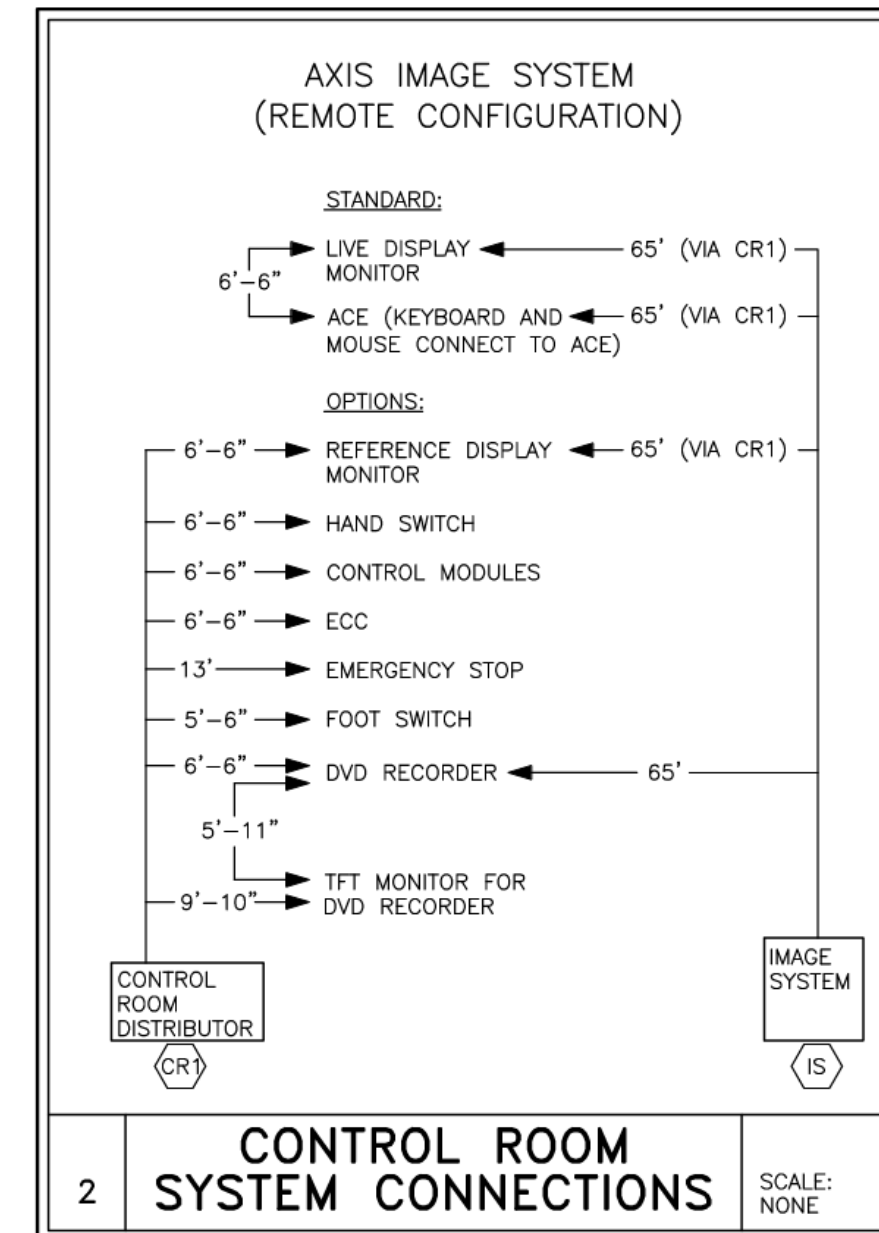
TABLE POWER OUTLET SAFETY

NOTE: LIFE-SUSTAINING EQUIPMENT MUST NOT BE CONNECTED TO THE TABLE POWER OUTLET (IF INSTALLED) IN THE SIEMENS PATIENT TABLE. POWER WILL BE DISCONNECTED IF EPO BUTTON IS PRESSED. TABLE OUTLET IS 120V, FUSED AT 5A.



NETWORK REQUIREMENT

A GIGABIT NETWORK IS REQUIRED FOR ADEQUATE IMAGE DATA TRANSFER SPEED BETWEEN THE IMAGER AND 3D RECONSTRUCTION WORKSTATION. WORKFLOW AND CLINICAL NEEDS DEMAND 3D IMAGES BE AVAILABLE FOR REVIEW BY CLINICAL STAFF IMMEDIATELY UPON ACQUISITION.



CONTRACTOR SUPPLIED CABLES

| FROM | VIA | TO | DESCRIPTION | REMARKS |
|-------|----------|------|---|-----------------------------------|
| PANEL | EXISTING | MP | ELECTRICAL CONTRACTOR TO SIZE PLUS GROUND | SEE "POWER SCHEDULE" |
| MP | EXISTING | PUI1 | 3/2, 1#2 GROUND AND CONNECT | SEE "POWER SCHEDULE" |
| MP | EXISTING | SC1 | 3/6, 1#6 NEUTRAL, 1#6 GROUND AND CONNECT | SEE "POWER SCHEDULE" |
| MP | EXISTING | EPO | 2#12, PLUS GROUND | SEE "POWER SCHEDULE" |
| EPO | EXISTING | EPO | 2#12, PLUS GROUND | EMERGENCY POWER |
| SC1 | EXISTING | WL | 2#14-18 AWG | SEE "LIGHTING DETAIL" SHEET E-501 |
| SC1 | EXISTING | DS | 24V SIGNAL, 2#14-18 AWG | DOOR SWITCH |
| WL | EXISTING | WL | 3#12, PLUS GROUND | WARNING LIGHT |
| DS | EXISTING | DS | 24V SIGNAL, 2#14-18 AWG | DOOR SWITCH |

SIEMENS SUPPLIED CABLES

| FROM | VIA | TO | DESCRIPTION | REMARKS |
|------|------------------|------------------|--|---------------------|
| P1 | EXISTING | PUI1 | P1 LEFT SIDE | MAXIMUM LENGTH 41" |
| P1 | EXISTING | PUI1 | (2) HIGH VOLTAGE CABLES P1 LEFT SIDE | MAXIMUM LENGTH 41" |
| P1 | EXISTING | SC1 | P1 LEFT SIDE | MAXIMUM LENGTH 37" |
| P1 | EXISTING | CU1 | FOR LIQUID COOLING HOSES (P1 LEFT SIDE) | MAXIMUM LENGTH 77" |
| SC1 | EXISTING | CR1 | FOR CONTROL ROOM OPTIONS (CONTROL MODULES, FOOT SWITCH, DISPLAY, ETC.) | MAXIMUM LENGTH 62" |
| SC1 | EXISTING | T1 | NOT WITH OR TABLE | MAXIMUM LENGTH 45" |
| SC1 | EXISTING | CU1 | | MAXIMUM LENGTH 98" |
| SC1 | BETWEEN CABINETS | PUI1 | | MAXIMUM LENGTH 16" |
| SC1 | EXISTING | IS | 62" CABLES SELECTABLE ON FACTORY CHECKLIST | MAXIMUM LENGTH 28" |
| SC1 | VD1, PB1, 1 | D1 | USE WITH ANY DCS | MAXIMUM LENGTH 62" |
| IS | VD2, PB2, 2 | D1 | NOT WITH DCS LD | MAXIMUM LENGTH 71" |
| IS | EXISTING | CR1 | | MAXIMUM LENGTH 61" |
| IS | EXISTING | CR1 | | MAXIMUM LENGTH 61" |
| T1 | 3 | B10 | UNDER FLOOR (CONFIRM IF EXISTING ON SITE) | |
| CRB | EXISTING | B10 | CUSTOMER PATIENT MONITORING, ETC. | |
| IS | VD2, PB2, 4 | CUSTOMER MONITOR | LIVE+REF VIDEO INTERFACE TO OEM (OPTION) | MAXIMUM LENGTH 110" |

| | | | |
|--|--|--------------------------|-----------------|
| PROJECT MANAGER: CHRISTOPHER THOMAS TELL: (801) 209-6582 FAX: EXT: EMAIL: CHRISTOPHER.THOMAS@SIEMENS-HEALTHINEERS.COM | | SIEMENS | |
| INTERMOUNTAIN MEDICAL CENTER | | | |
| 5121 COTTONWOOD ST, MURRAY, UT 84107 CATH LAB #1 / ARTIS Q.ZEN CEILING | | | |
| PROJECT #: | | SHEET: | |
| 2100316 | | E-501 | |
| THE USE OR REPRODUCTION OF THIS TITLE BLOCK WITHOUT SIEMENS AUTHORIZATION WILL RESULT IN PROSECUTION UNDER FULL EXTENT OF THE LAW. | | ALL RIGHTS ARE RESERVED. | |
| SYN | DATE | DESCRIPTION | SCALE |
| 04/12/21 | 8-101088 VERSION DATED 03/25/21 APPROVED BY CUSTOMER FOR FINAL | | |
| -ISSUE BLOCK- | | AS NOTED | REF: CPG-192529 |
| DATE | | 04/12/21 | |

ATTENTION:

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THIS SET OF PLANS REPRESENTS A COMPLETE SET OF DETAILS AND SHOULD NOT BE SEPARATED.

IT IS RECOMMENDED THAT THE SIEMENS DRAWINGS BE INCORPORATED WITH THE CONSTRUCTION DOCUMENTS FOR REFERENCE.

ALL DIMENSIONS SHOWN ON THIS DRAWING ARE FROM FINISHED SURFACES.

THIS DRAWING DOES NOT PROVIDE RADIATION SHIELDING REQUIREMENTS FOR X-RAY AND ASSOCIATED EQUIPMENT. THE CUSTOMER IS RESPONSIBLE FOR CONSULTING WITH A REGISTERED RADIATION PHYSICIST TO SPECIFY RADIATION PROTECTION.

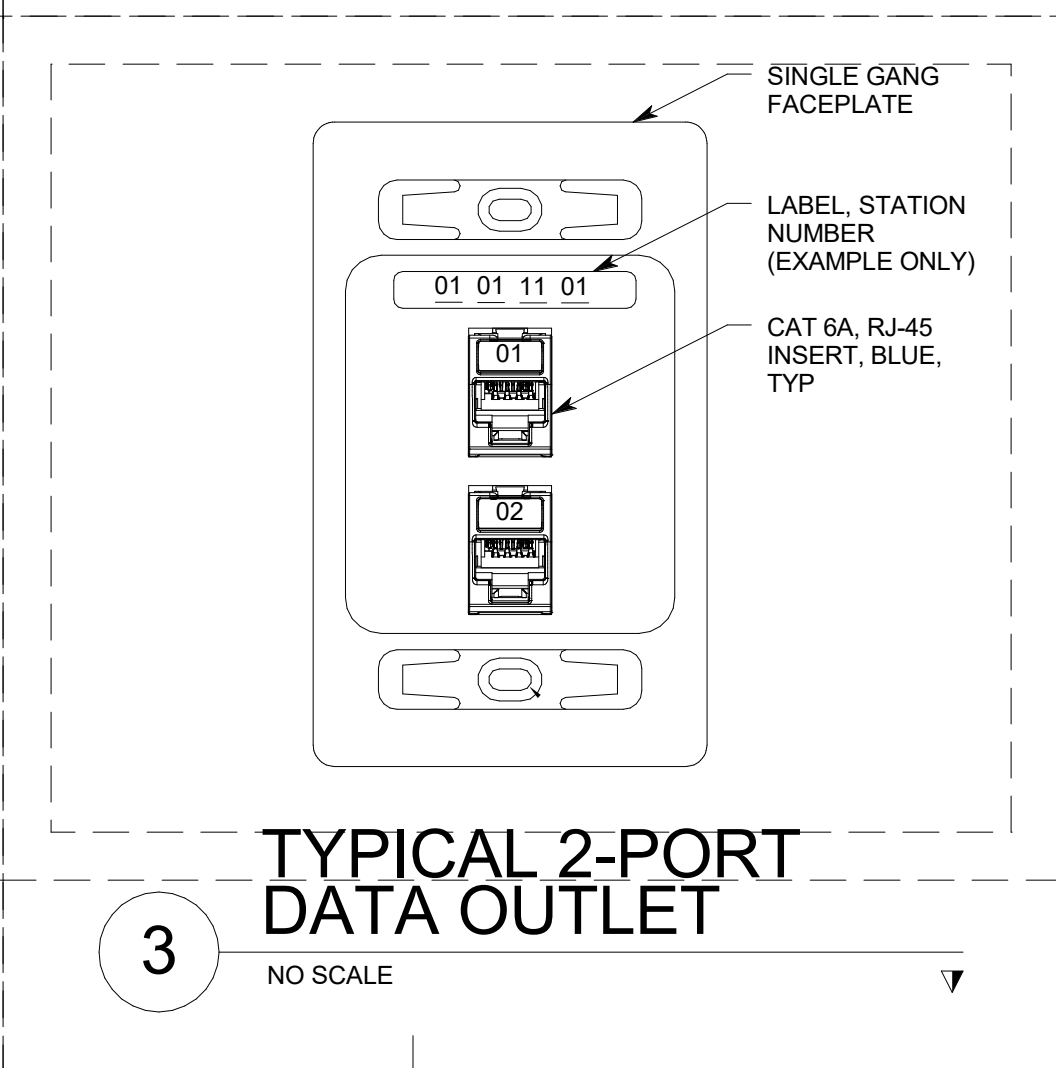
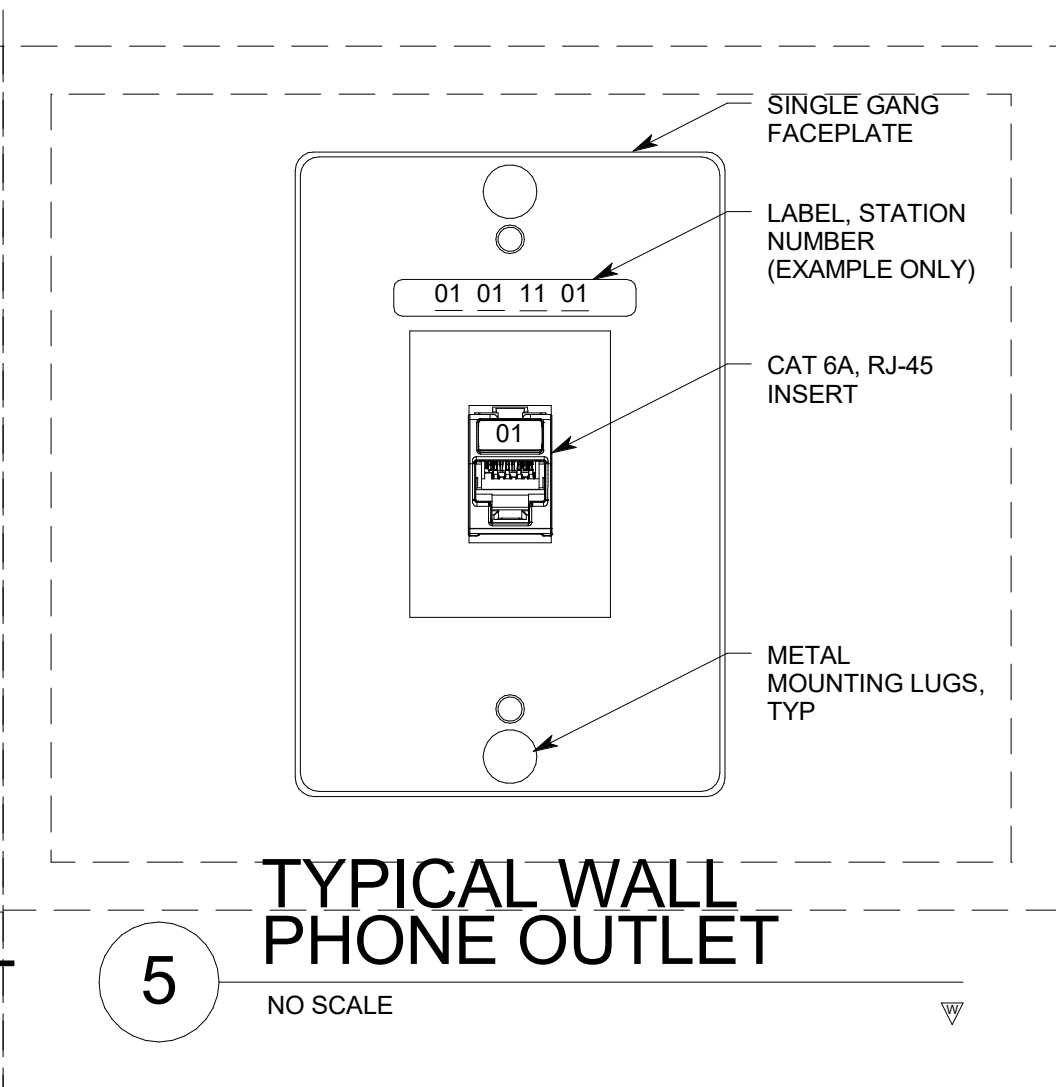
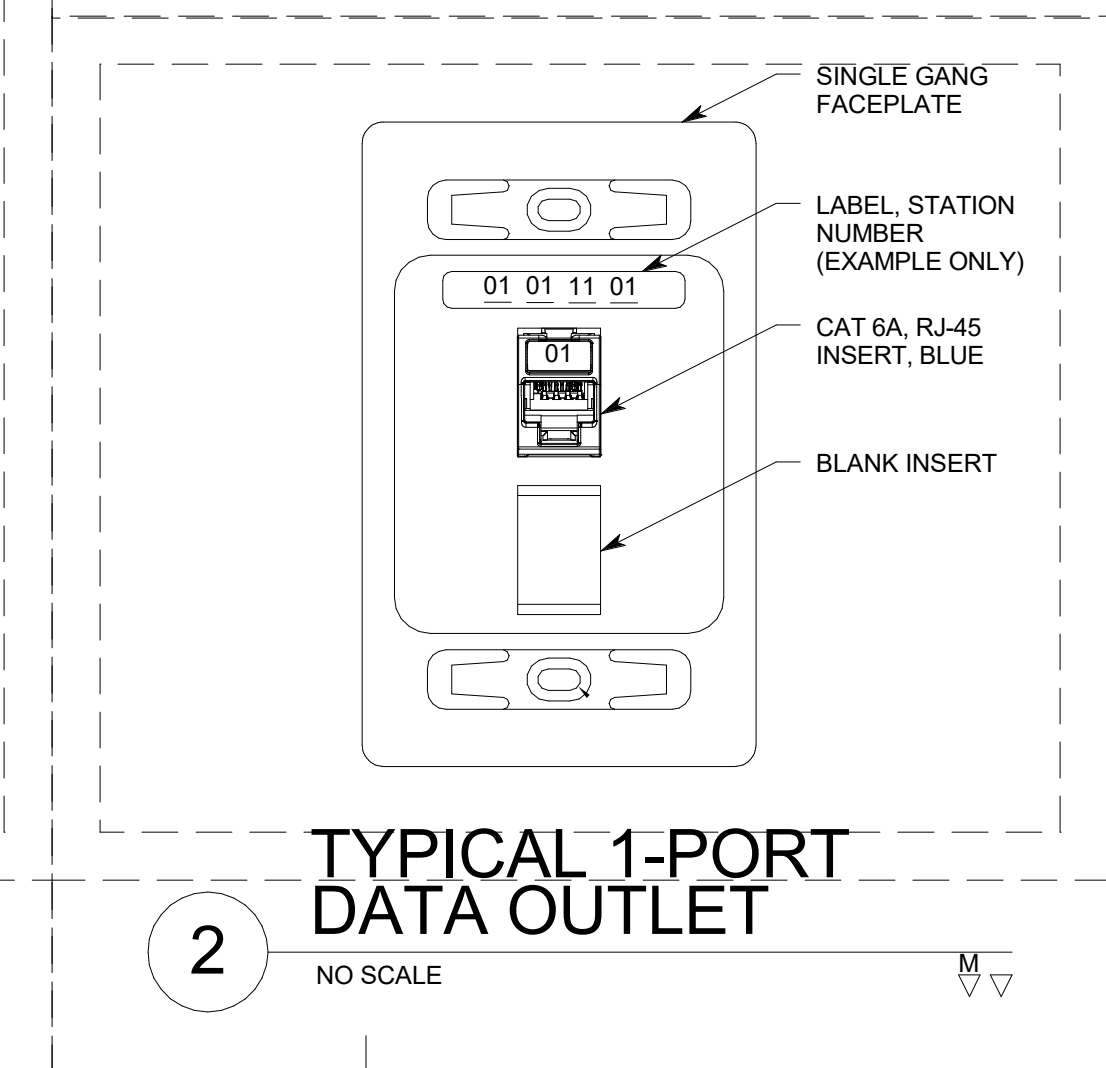
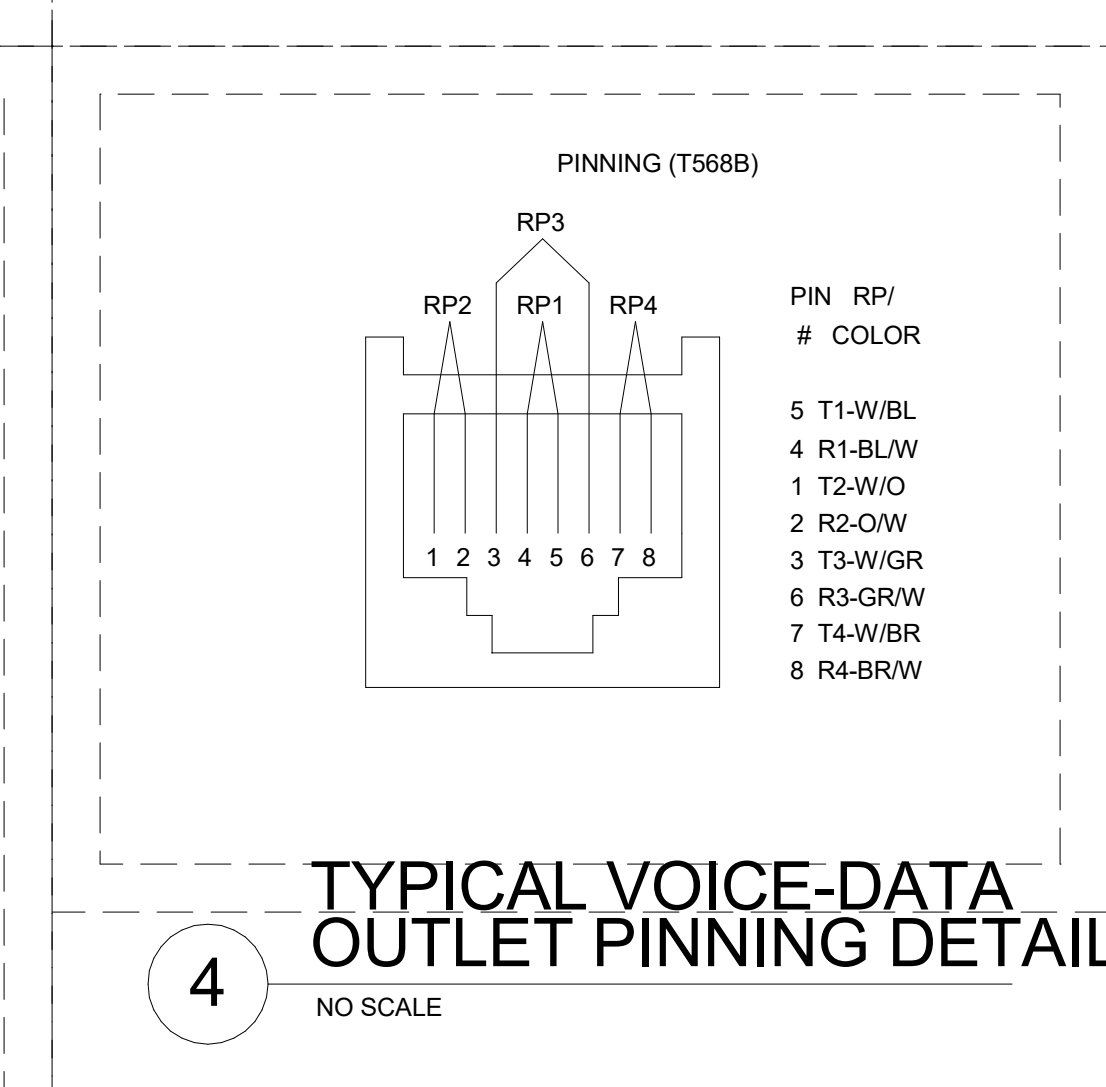
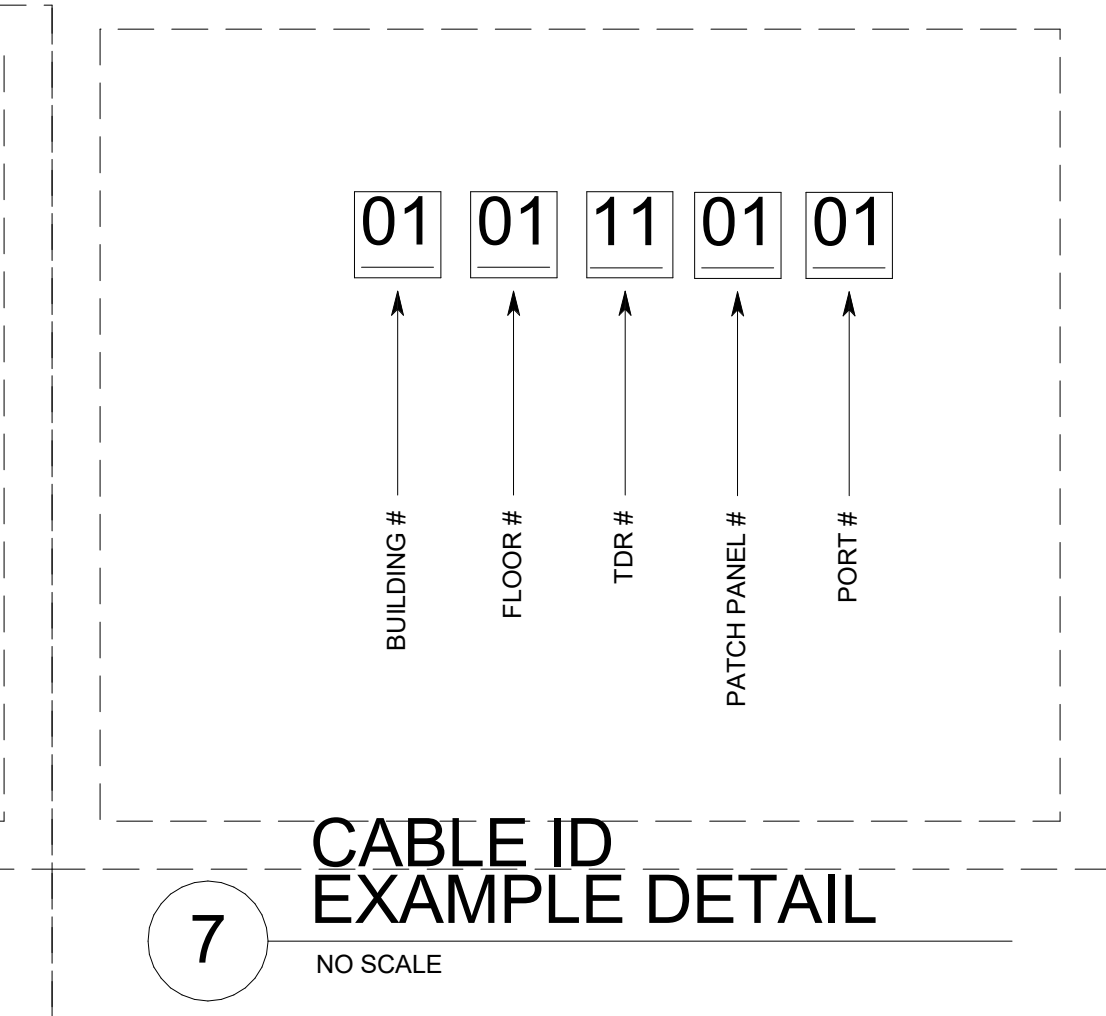
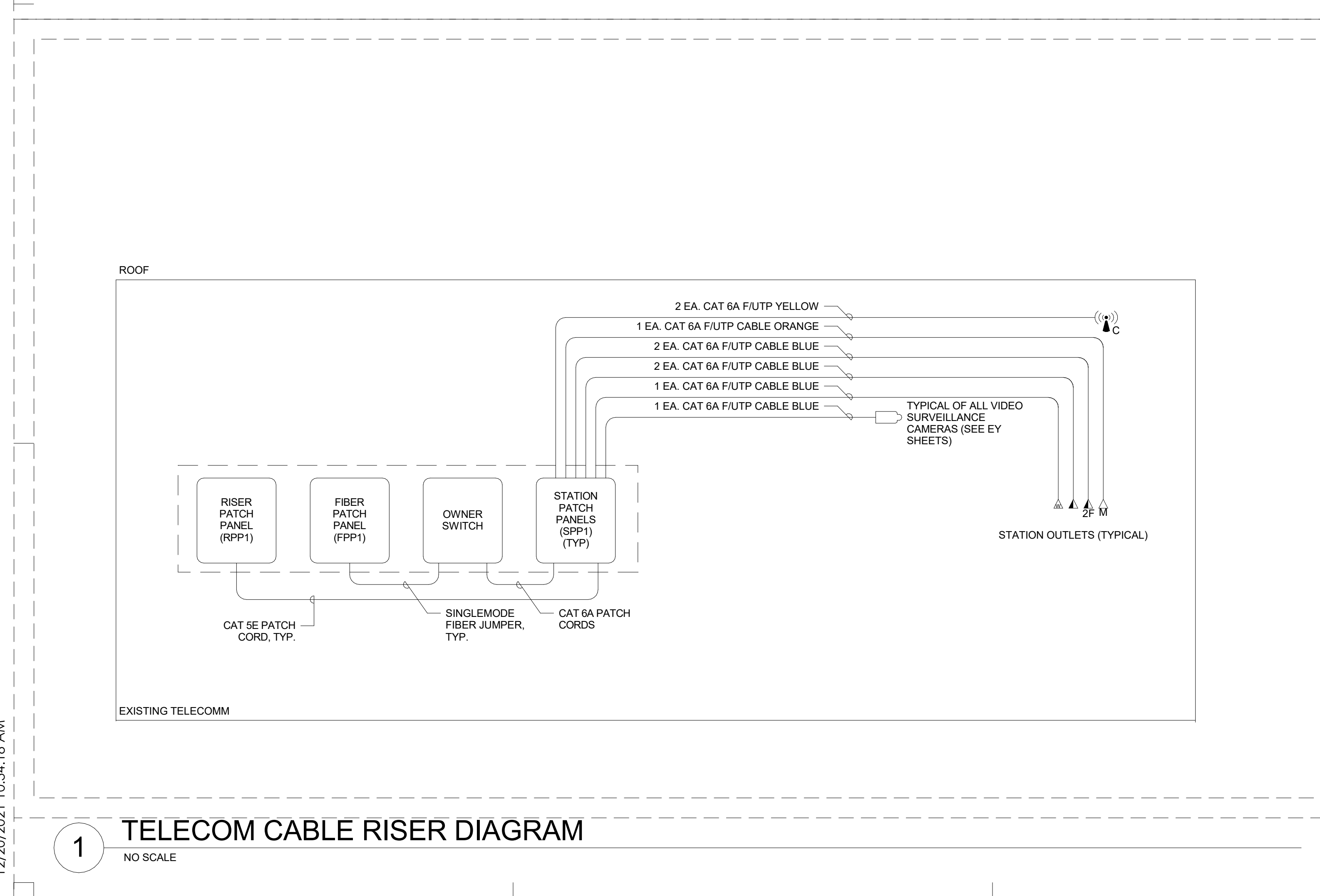
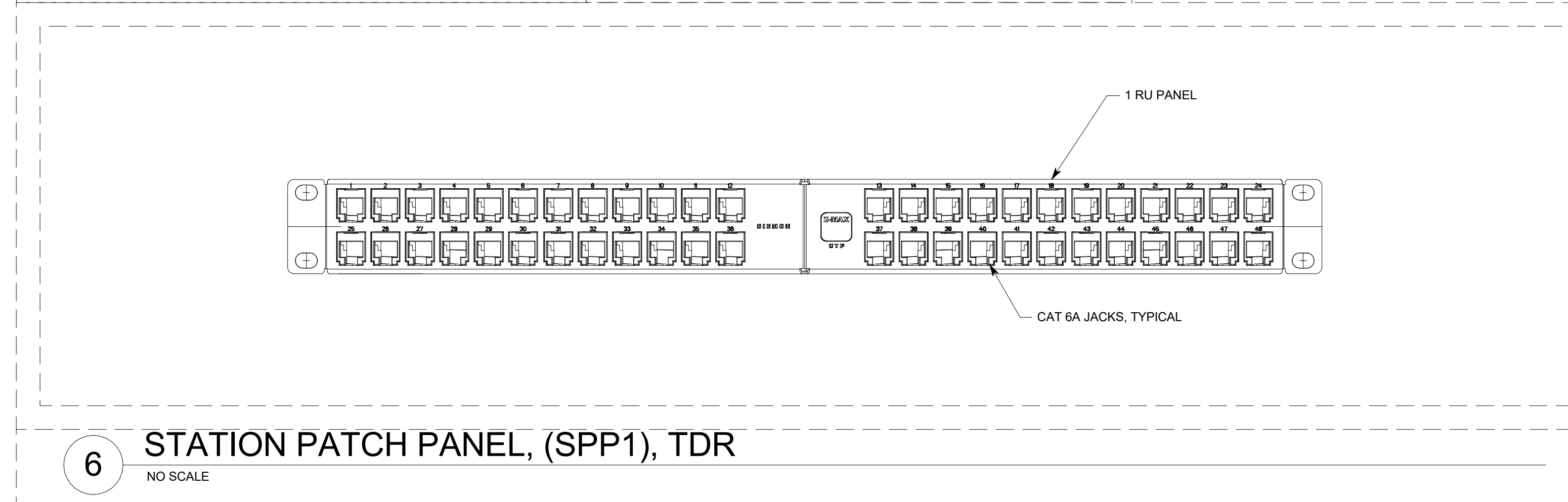
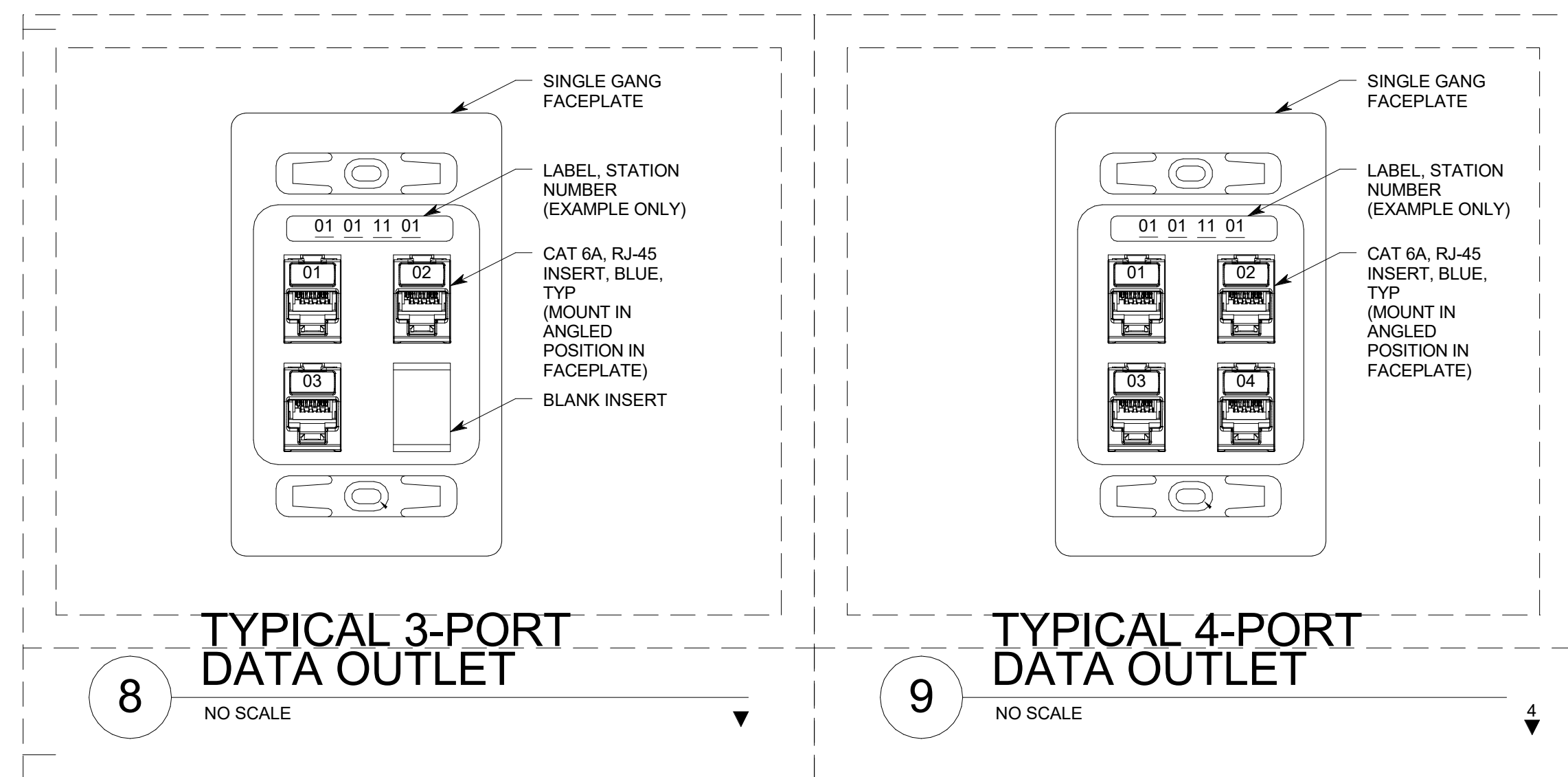
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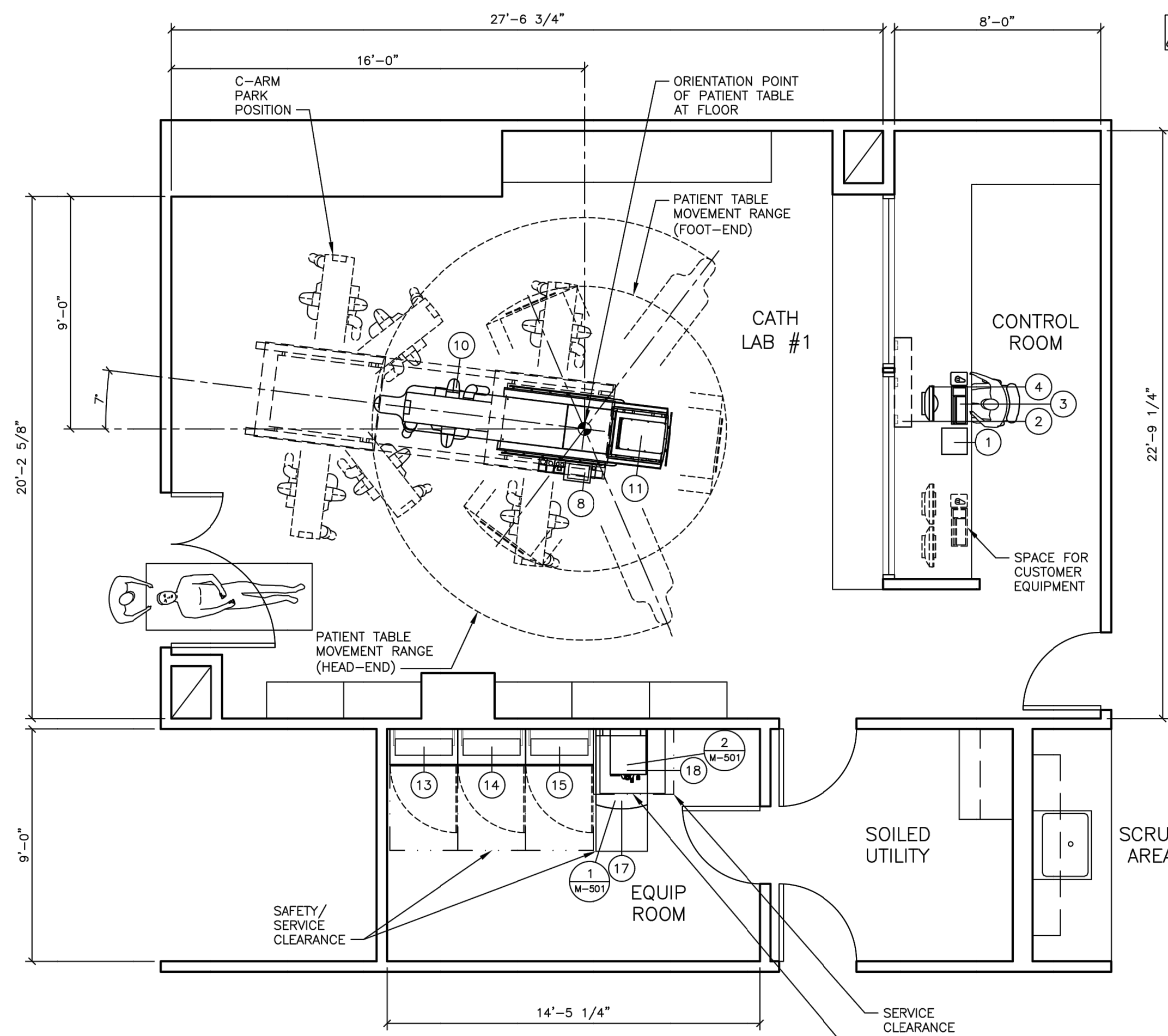
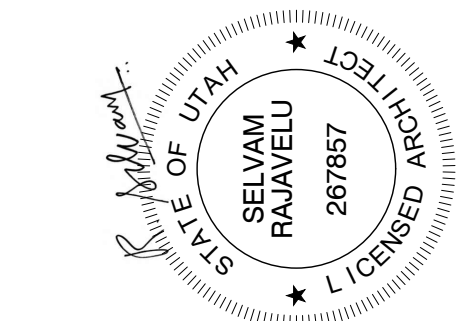
Intermountain Healthcare

IMC - Cath Lab 1 Remodel Project

5121 South Cottonwood Street
Murray, UT 84107

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STRETCHER SIZE (6'-5" x 2'-7") SHOWN IS FOR REFERENCE ONLY. VERIFICATION AND COORDINATION BY CUSTOMER IS REQUIRED TO ENSURE PROPER TRANSPORT AND WORKFLOW ACCESS.

THIS SET OF FINAL DRAWINGS IS REFLECTIVE OF THE LATEST SALES CONFIGURATION. ANY CHANGES TO THIS SALES CONFIGURATION MAY REQUIRE A REVISION TO THIS PROJECT PLAN. IF REQUESTED, SIEMENS WILL PROVIDE A REVISED SET OF FINAL DRAWINGS TO REFLECT THE CHANGES. HOWEVER SIEMENS IS NOT RESPONSIBLE FOR ANY CONSTRUCTION COSTS ASSOCIATED WITH THE CHANGES THAT OCCUR FROM THIS PLAN MODIFICATION.

SUGGESTED 2'-6" SQUARE SHELF 48" A.F.F. FOR MOUNTING COOLING UNIT ABOVE IMAGER. PROVIDE TRAY UNDERNEATH FOR LEAK PROTECTION WITH 2.5 GALLON CAPACITY. SHELF PROVIDED BY CUSTOMER/CONTRACTOR.

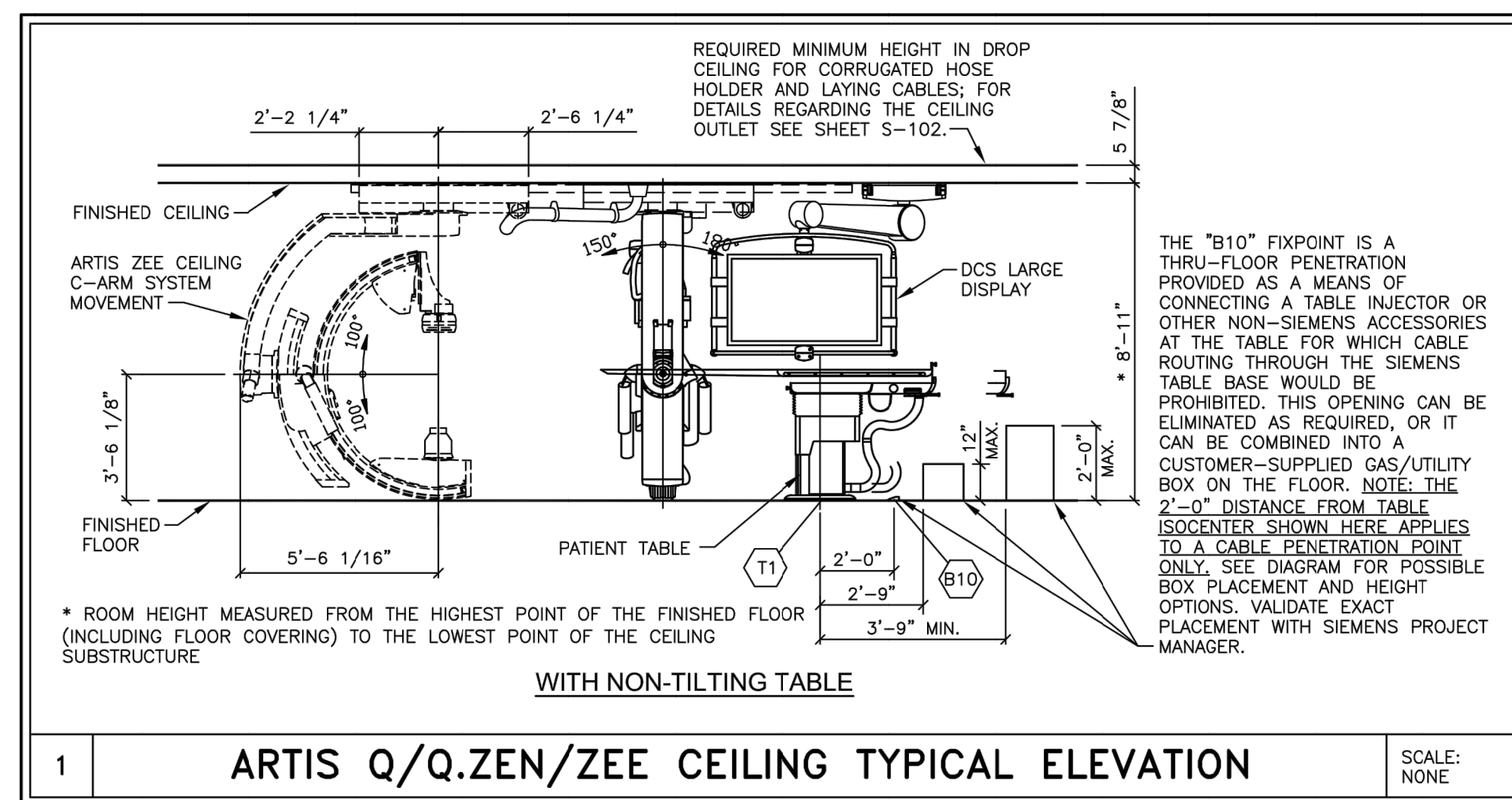
SINKS, COUNTERTOPS AND ALL CASEWORK SHOWN IS SUGGESTED AND MUST BE DESIGNED SUPPLIED AND INSTALLED BY CUSTOMER/CONTRACTOR.

NON-SIEMENS (OEM) DISPLAY BOOMS CONTAINING SIEMENS MONITORS:
IMPORTANT SAFETY CRITERIA: FAILURE TO MEET THE FOLLOWING REQUIREMENTS MAY RESULT IN RISK OF INJURY TO PATIENTS, PERSONNEL OR DAMAGE TO THE EQUIPMENT!
1) IT MUST BE POSSIBLE TO MANUALLY MOVE THE BOOM VERTICALLY WITH A FORCE LESS THAN 85 N (19 LBS) WHEN POSITIONING THE DISPLAY BOOM OVER THE PATIENT.
2) TO AVOID THE RISK OF CRUSHING PERSONS OR DAMAGING EQUIPMENT IN THE EVENT THAT THE ANGIOGRAPHY SYSTEM COMES INTO CONTACT WITH THE DISPLAY BOOM, IT MUST BE POSSIBLE TO PUSH THE BOOM AWAY IN A HORIZONTAL DIRECTION WITH A FORCE LESS THAN 50 N (11 LBS).
3) MOTORIZED, HEIGHT-ADJUSTABLE DISPLAY BOOMS WHICH CANNOT MANUALLY BE PUSHED AWAY MAY NOT BE USED.
DELIVERY AND INSTALLATION:
IT IS RECOMMENDED THAT INSTALLATION OF 3RD PARTY DISPLAY BOOMS BE COORDINATED WITH THE INSTALLATION OF THE SIEMENS SYSTEM. IN ORDER TO ENSURE THE SIMULTANEOUS INSTALLATION OF THE SYSTEM AND THE DISPLAY BOOM, THE CUSTOMER SHOULD TAKE STEPS EARLY IN THE PLANNING PROCESS TO ENSURE THAT THE BOOM MANUFACTURER'S LEAD TIME CAN BE COORDINATED WITH THE DELIVERY OF THE SIEMENS EQUIPMENT. THE THIRD-PARTY MANUFACTURER IS RESPONSIBLE FOR THE INSTALLATION, MAINTENANCE, AND SERVICE OF THE DISPLAY BOOM(S). THE THIRD-PARTY MANUFACTURER IS RESPONSIBLE FOR INSTALLING THE SIEMENS COMPONENTS IN THE DISPLAY BOOM IN ACCORDANCE WITH SIEMENS SPECIFICATIONS. SIEMENS ASSUMES NO RESPONSIBILITY FOR ANY DAMAGE TO SIEMENS COMPONENTS WHICH ARE NOT INSTALLED IN ACCORDANCE WITH SIEMENS SPECIFICATIONS. SIEMENS TECHNICIANS MUST BE GIVEN INSTRUCTIONS AND/OR TRAINING AS APPROPRIATE BY THE 3RD PARTY MANUFACTURER FOR MAINTENANCE/SERVICE OF THE SIEMENS COMPONENTS (I.E. DISPLAY, CABLES), OR A TECHNICIAN FROM THE THIRD-PARTY MANUFACTURER MUST BE PRESENT WHENEVER ANY SERVICE WORK IS PERFORMED.

"DISPLAY KIT BOOM 1" (19" LIVE+REF MONITORS) FOR OEM BOOM MOUNTING, MOUNTED BY CUSTOMER IN COORDINATION W/SIEMENS PROJECT MANAGER.

ARCHITECTURAL EQUIPMENT PLAN

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



ATTENTION:

—THIS DRAWING IS DESIGNED TO CONFORM TO FEATURES AND EQUIPMENT REQUIREMENTS PRESENTED AT THE TIME OF THEIR PREPARATION. — SINCE BOTH THESE FACTORS ARE SUBJECT TO DESIGN MODIFICATION, THEY ARE NOT TO BE USED FOR CONSTRUCTION PURPOSES.
—THIS SET OF PLANS REPRESENTS A COMPLETE SET OF DETAILS AND SHOULD NOT BE SEPARATED.

—IT IS RECOMMENDED THAT THE SIEMENS DRAWINGS BE INCORPORATED WITH THE CONSTRUCTION DOCUMENTS FOR REFERENCE.

—ALL DIMENSIONS SHOWN ON THIS DRAWING ARE FROM FINISHED SURFACES.
—THIS DRAWING DOES NOT PROVIDE RADIATION SHIELDING REQUIREMENTS FOR X-RAY AND ASSOCIATED EQUIPMENT. THE CUSTOMER IS RESPONSIBLE FOR CONSULTING WITH A REGISTERED RADIATION PHYSICIST TO SPECIFY RADIATION PROTECTION.

EQUIPMENT LEGEND

| NO | DESCRIPTION | SMS SYM | WEIGHT (LBS) | BTU/HR TO AIR | DIMENSIONS (INCHES) | | | REMARKS |
|----|---------------------------------------|------------|-----------------|------------------|---------------------|--------|--------|-------------------------|
| | | | | | W | D | H | |
| ① | ACE (ARCHIVE CONTROL EXTENSION) | Ⓢ | 13 | N/A | 12 1/4 | 11 3/4 | 4 | ON COUNTER |
| ② | CONTROL ROOM DISTRIBUTOR | Ⓢ | 64 | 342 | 41 1/2 | 8 1/4 | 16 1/8 | WALL MOUNTED |
| ③ | KEYBOARD | Ⓢ | 2.2 | 342 | 17 1/2 | 6 1/8 | 2 1/8 | ON COUNTER |
| ④ | 19" LIVE DISPLAY | Ⓢ | 15 | 256 | 16 1/2 | 8 1/4 | 13 1/2 | ON COUNTER |
| ⑤ | TABLE CONTROL MODULES | Ⓢ | 13.8 | ---- | 16 1/2 | 8 3/4 | 3 1/2 | ON TABLE |
| ⑥ | BOOM 1 KIT 19" (2) DISPLAYS LIVE+REF | Ⓢ | 25 | 512 | 33 | 8 1/4 | 13 1/2 | OEM BOOM MOUNTED |
| ⑦ | ARTIS Q.ZEN CEILING C-ARM STAND | Ⓢ | 1,994 | 682 | ---- | ---- | ---- | C-ARM CEILING SUSPENDED |
| ⑧ | PATIENT TABLE (BASIC, STANDARD TABLE) | Ⓢ | 997 | 683 | ---- | ---- | ---- | FLOOR MOUNTED |
| ⑨ | POLYDOROS A100 GENERATOR CABINET | Ⓢ | 723 | 4,094 | 31 1/2 | 17 1/8 | 87 | FLOOR MOUNTED |
| ⑩ | CABLE CABINET | Ⓢ | 265 | ---- | 31 1/2 | 17 1/8 | 87 | FLOOR MOUNTED |
| ⑪ | SYSTEM CONTROL CABINET | Ⓢ | 655 | 5,460 | 31 1/2 | 17 1/8 | 87 | FLOOR MOUNTED |
| ⑫ | AXIS IMAGE SYSTEM | Ⓢ | 331 | 4,347 | 23 3/4 | 37 1/4 | 28 | ON CASTERS |
| ⑬ | TUBE COOLING UNIT | Ⓢ | 80 | 15,355 | 16 1/2 | 28 1/4 | 19 1/4 | SHELF MOUNTED |
| | | | | | | | | |
| | | | | | | | | |

PROJECT MILESTONES TO BE COMPLETED BEFORE EQUIPMENT DELIVERY

| | REFERENCE SHEET |
|--|-----------------|
| Storage area available for storing items during installation | A-101 |
| Lead shielding (walls, doors, windows) complete | A-101 |
| Climate control functioning 24 hours a day, 7 days a week | A-101 |
| Delivery path verified for largest piece, including rails | A-101 |
| Casework complete in control room | A-101 |
| All walls primed and painted. Flooring installed | A-101 |
| Room lighting complete and functional | A-101 |
| Network drops active and IP addresses obtained for Siemens Remote Services (SRS) | A-102 |
| Nothing hanging below ceiling in area shaded on drawing | A-102 |
| Floor thickness and anchoring spec's verified. If req'd, all solutions per engineer of record in place | S-101 |
| All conduits, troughs, in-floor pull boxes and/or core drills avoid conflict with floor plate anchors | S-101 |
| Unistrut installed to correct height, location, and levelness (check minimum ceiling height) | S-102 |
| Cable runs checked to ensure maximum lengths not exceeded | E-101 |
| X-Ray warning light and wiring installed | E-101 |
| Contractor supplied electrical wiring / pigtail installed | E-102 |
| Cable inlets located per plans | E-102 |
| EPO's installed and functional | E-102 |
| UPS started and functional | E-102 |
| Ancillary equipment (OEM items, booms, etc) installed | E-102 |
| Breakers installed and facility power available | E-501 |

ARCHITECTURAL NOTES

- 1) ALL PRELIMINARY EQUIPMENT LAYOUTS SUBMITTED BY SIEMENS HEALTHCARE ARE BASED ON THE RECOMMENDED SPACE NECESSARY FOR THE OPERATION AND SERVICEABILITY OF THE EQUIPMENT BEING PROPOSED. SIEMENS WILL NOT SUBMIT AN EQUIPMENT LAYOUT THAT IS NOT IN THE BEST INTEREST OF BOTH THE CUSTOMER AND SIEMENS. ALL EQUIPMENT LAYOUTS ARE BASED EITHER ON AN ACTUAL SITE SURVEY OR ARCHITECTURAL DRAWINGS SUPPLIED TO SIEMENS. SIEMENS WILL NOT BE RESPONSIBLE FOR ANY ALTERATIONS THAT ENDOURSE WITHIN DESIGNATED SAFETY AND SERVICE CLEARANCE ZONES AS INDICATED ON DRAWINGS (I.E., PIPE CHASES, VENTILATION DUCTS, CASEWORK, AND SOFFITS, ETC.) MADE BY THE CUSTOMER OR REQUIRED BY A CUSTOMER'S ARCHITECTURAL FIRM ONCE PRELIMINARY DRAWINGS HAVE BEEN SUBMITTED AND APPROVED. DO NOT ALTER ANY SPECIFICATIONS AND/OR DIMENSIONS WITHOUT CONTACTING AND RECEIVING WRITTEN CONFIRMATION FROM SIEMENS PROJECT MANAGER.
- 2) SIEMENS HEALTHCARE IS NOT AN ARCHITECTURAL OR ENGINEERING FIRM. DRAWINGS SUPPLIED BY SIEMENS ARE NOT CONSTRUCTION DRAWINGS. THEREFORE, THESE DRAWINGS ARE TO BE USED ONLY FOR INFORMATION TO COMPLEMENT ACTUAL CONSTRUCTION DRAWINGS AVAILABLE FROM A CUSTOMER APPOINTED ARCHITECTURAL REPRESENTATIVE OR A CUSTOMER'S ENGINEERING DESIGN GROUP. THE CUSTOMER'S ARCHITECT AND GENERAL CONTRACTOR SHALL BE ULTIMATELY RESPONSIBLE FOR COMPLIANCE WITH ALL APPLICABLE CODES AND PROFESSIONAL DESIGN REQUIREMENTS INCLUDING OSHA/NEC SAFETY CLEARANCE REQUIREMENTS IN ADDITION TO SIEMENS-REQUIRED SAFETY/SERVICE CLEARANCES SHOWN.
- 3) THE CUSTOMER IS RESPONSIBLE FOR ALL ROOM AND AREA PREPARATION COSTS, PROFESSIONAL FEES, PERMITS, REPORTS, AND INSPECTION FEES.
- 4) EQUIPMENT WARRANTIES, EXPRESSED OR IMPLIED ON THE PART OF SIEMENS SHALL BE CONTINGENT UPON STRICT COMPLIANCE WITH THE ARCHITECTURAL, STRUCTURAL, ELECTRICAL, MECHANICAL, AND RECOMMENDATIONS AND REQUIREMENTS CONTAINED IN THESE DRAWINGS, UNLESS SPECIFIED OTHERWISE.
- 5) ALL DIMENSIONS SHOWN ARE FROM FINISHED SURFACES UNLESS SPECIFIED OTHERWISE.
- 6) THIS DRAWING DOES NOT PROVIDE RADIATION SHIELDING REQUIREMENTS FOR X-RAY AND ASSOCIATED EQUIPMENT. THE CUSTOMER IS RESPONSIBLE FOR CONSULTING WITH A REGISTERED RADIATION PHYSICIST. ACTUAL PROTECTION REQUIREMENTS SHALL BE SPECIFIED BY A REGISTERED RADIATION PHYSICIST AT CUSTOMER'S ENGAGEMENT AND EXPENSE. RESPONSIBILITY FOR ALL INFORMATION AS TO THE ROOM LOCATION, USE, AND NUMBER OF ANTICIPATED EXAMINATIONS TO BE PERFORMED PER TIME PERIOD SHALL BE PROVIDED TO THE PHYSICIST BY THE CUSTOMER. THE CUSTOMER SHALL FURTHER TAKE ALL RESPONSIBILITY IN THE COMMUNICATION AND COORDINATION OF ACTIVITIES OF THE RADIATION PHYSICIST AND THE ARCHITECTURAL REPRESENTATIVE.
- 7) SIEMENS HEALTHCARE SHALL BE RESPONSIBLE FOR SIEMENS EQUIPMENT INSTALLATION, CALIBRATION, CONNECTION AND INSTALLATION OF SIEMENS PROVIDED CABLES. THE CUSTOMER/ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR TERMINATIONS OF CUSTOMER/ELECTRICAL CONTRACTOR-SUPPLIED CABLES TO SIEMENS EQUIPMENT. IN THE EVENT THAT SPECIFIC TRADE RULES OR LICENSE REQUIREMENTS PROHIBIT THIS, THE CUSTOMER SHALL INITIATE THE SERVICES OF APPROVED OTHER CONTRACTORS AND PAY FOR SELECTED, APPROVED PARTIES TO PERFORM THIS WORK WITH SUPERVISION PROVIDED BY SIEMENS. CALIBRATION WHEN ACCOMPLISHED OUTSIDE OF NORMAL INSTALLATION SEQUENCES DUE TO CONTRACTOR OR TRADE RULE ACTIONS OR REQUIREMENTS SHALL BE SUPPORTED BY, CHARGED TO, AND ACCEPTED BY THE CUSTOMER AS AN ADDITIONAL INSTALLATION EXPENSE.
- 8) THE CUSTOMER SHALL COORDINATE WITH SIEMENS PROJECT MANAGER THE LOCATIONS AND TRAVEL OF ALL ANCHORAGE EQUIPMENT TO BE CEILING OR WALL MOUNTED (I.E.: O.R. LIGHTS, MEDICAL GAS COLUMNS, PHYSIOLOGICAL MONITORING INJECTORS, CRT PLATFORMS, SPRINKLER HEADS, SMOKE DETECTORS, ELECTRICAL OUTLETS, HVAC GRILLES, SPEAKERS, AND GENERAL ROOM LIGHTING, ETC.).
- 9) THE GENERAL CONTRACTOR/CUSTOMER SHALL BE RESPONSIBLE FOR ALL FINAL PAINT, TOUCH-UP AND ANY COSMETIC OR TRIM WORK WHICH NEEDS TO BE OR IS REQUIRED TO BE COMPLETED AFTER THE INSTALLATION OF THE SIEMENS EQUIPMENT AND ANY ASSOCIATED SUPPORT APPARATUS.
- 10) CUSTOMER/CONTRACTOR MUST ASSIST SIEMENS INSTALLERS WITH INSTALLATION OF EQUIPMENT ABOVE 14'-0". REFER TO THE ELECTRICAL NOTES ON SIEMENS SHEET E-101 FOR MORE DETAILS.

TRANSPORT/STORAGE FLAT PANEL DETECTOR

IN SYSTEMS WITH FLAT PANEL DETECTORS, THE DETECTOR IS REMOVED FROM THE STAND FOR TRANSPORT TO THE CUSTOMER. THE LIMITED TRANSPORT AND STORAGE CONDITIONS APPLY FOR THE DETECTOR.

FLAT PANEL DETECTOR:
TEMPERATURE RANGE: 14° F TO 131° F
RELATIVE HUMIDITY: 20% TO 95% NON CONDENSING
AIR PRESSURE: 700 hPa TO 1060 hPa

TRANSPORTING REQUIREMENTS

LARGEST CRATE WITH PACKING:
103.6"(L) x 46.5"(D) x 81.5"(H), 2,590 LBS.
LARGEST INDIVIDUAL PIECE WITH CARRIAGE (MIN. DOOR OPENING):
97 1/4"(L) x 39 1/2"(W) x 75"(H), 2,006 LBS.
CEILING RAILS ARE 14 FT.(L) x 3"(W) x 3"(H)
MIN. CORRIDOR WIDTH: 82.7"

RESOURCE LIST (SMS USE ONLY)

| DESIGNATION | PG NUMBER | DATE |
|-------------------------|-----------------------|-------|
| ARTIS Q / Q.ZEN CEILING | AXAQ-060.891.01.01.02 | 04.13 |

ARTIS Q.ZEN/ZEE CEILING
REV. 27

SIEMENS

PROJECT MANAGER: CHRISTOPHER THOMAS
TEL: (801) 209-6582 EXT:
FAX:
EMAIL: CHRISTOPHER.THOMAS@SIEMENS-HEALTHCARE.COM

INTERMOUNTAIN MEDICAL CENTER

5121 COTTONWOOD ST, MURRAY, UT 84107
CATH LAB #1 / ARTIS Q.ZEN CEILING

THE USE OR REPRODUCTION OF THIS TITLE BLOCK WITHOUT SIEMENS AUTHORIZATION WILL RESULT IN PROSECUTION UNDER FULL EXTENT OF THE LAW.
ALL RIGHTS ARE RESERVED.

PROJECT #: 2100316
SHEET: 1 OF 7
DRAWN BY: O. CARRILLO
DATE: 04/12/21

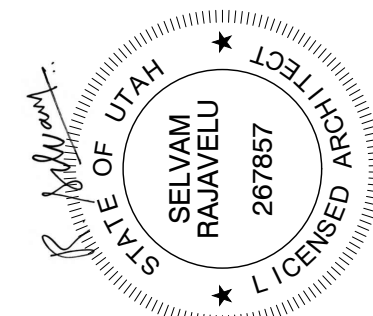
A-101

SCALE: AS NOTED
REF: CPO-192529

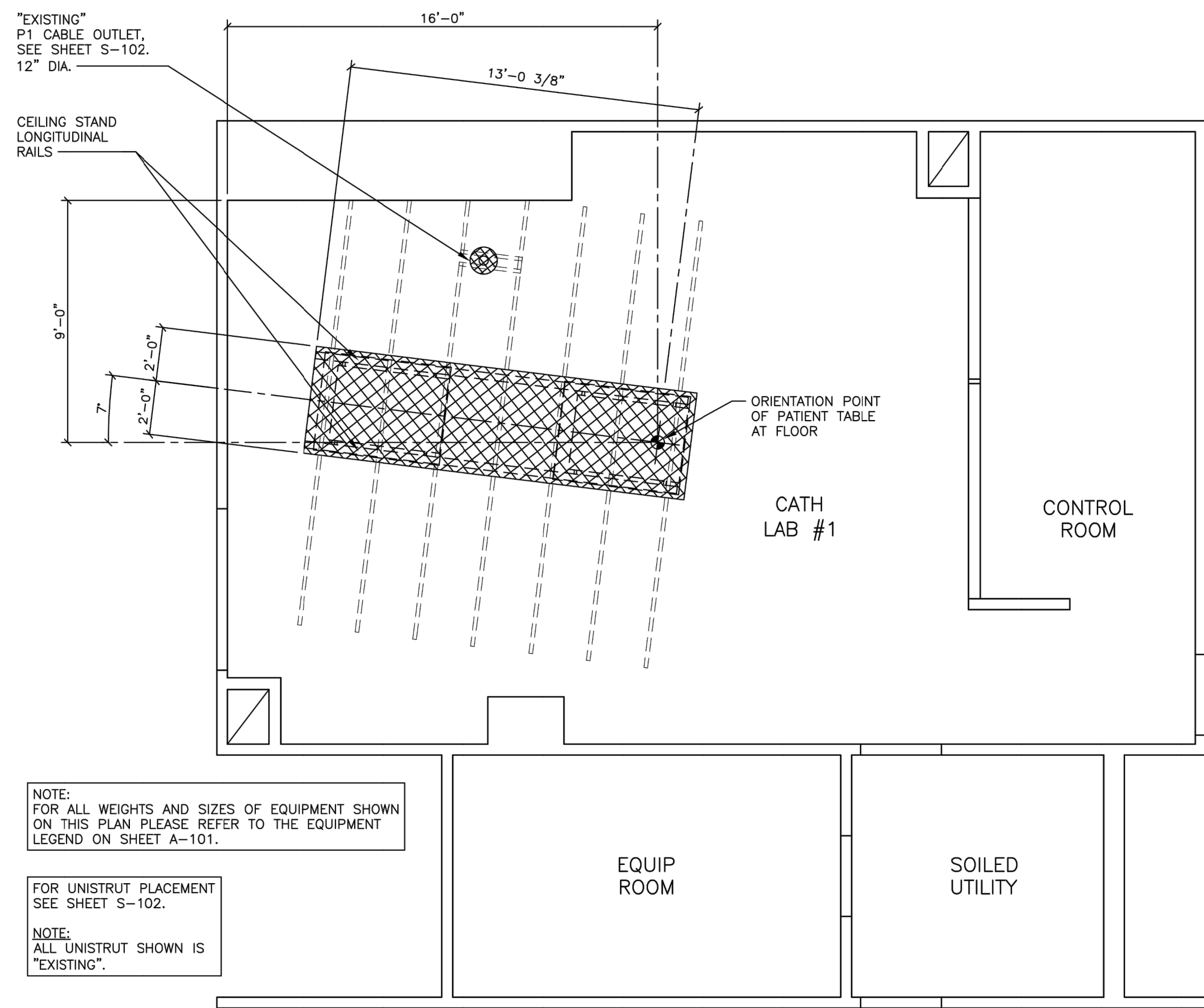
| SYM | DATE | DESCRIPTION |
|---------------|----------|---|
| Δ | 04/12/21 | R-101000 VERSION DATED 03/25/21 APPROVED BY CUSTOMER FOR FINALS |
| —ISSUE BLOCK— | | |

12/14/2021 7:45:15 AM - T:\2001\HC\20229\00\HC - IMC CATH LAB #1\02 BIM - REVIT & AUTOCAD\02 AUTOCAD DWGS\EQ 102 SIEMENS EQUIPMENT ARCHITECTURAL.DWG

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ATTENTION: LIGHTING AND HVAC DUCTS HAVING THE POTENTIAL TO HEAT OR COOL SIEMENS COMPONENTS MUST NOT BE LOCATED WITHIN SIEMENS CEILING RAIL SYSTEMS AS INDICATED BY THE SHADED AREAS ON THIS PLAN. SPRINKLER HEADS MUST NOT BE LOCATED WITHIN THE SHADED AREAS AS WELL. IF REQUIRED, LAMINAR AIRFLOW DIFFUSERS MAY BE LOCATED WITHIN SIEMENS CEILING RAIL SYSTEMS PROVIDED THEY DO NOT EXTEND BELOW THE FINISHED CEILING OR HEAT/COOL SIEMENS EQUIPMENT. IF PLACED WITHIN SIEMENS RAIL SYSTEMS, THE CUSTOMER MUST ACCEPT RESPONSIBILITY FOR THE FACT THAT, DEPENDING ON THE POSITION OF THE CARRIAGE WITHIN THE CEILING RAILS, THERE IS POTENTIAL FOR CERTAIN DIFFUSERS IN THIS AREA TO BE BLOCKED. THE CUSTOMER MUST ALSO ACCEPT RESPONSIBILITY FOR POTENTIAL DIFFICULTIES IN SERVICING THE CUSTOMER'S MECHANICAL EQUIPMENT IN THE CEILING, IF PLACED WITHIN THESE SHADED AREAS. PLEASE COORDINATE THE PLACEMENT OF THESE ITEMS WITH THE SIEMENS PROJECT MANAGER. SIEMENS SHALL BEAR NO RESPONSIBILITY FOR ANY EQUIPMENT DAMAGES RESULTING FROM THE INSTALLATION OF CUSTOMER-SUPPLIED INFRASTRUCTURE NOT ADHERING TO THE ABOVE STATED REQUIREMENTS.

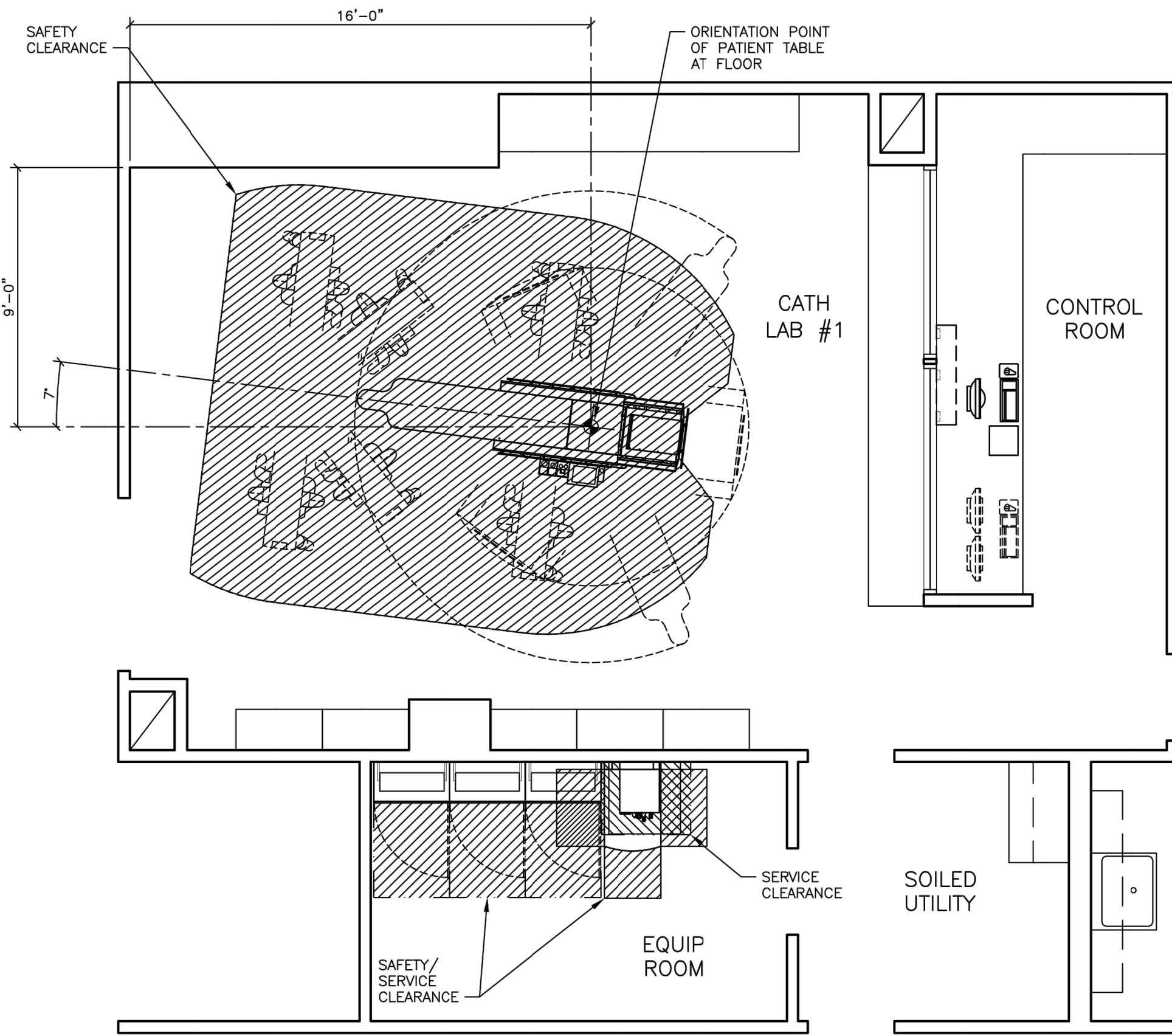


REFLECTED CEILING PLAN

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

CEILING NOTES

- 1) ALL CEILING MOUNTED LIGHT FIXTURES, MECHANICAL REGISTERS AND SPRINKLER HEADS SHALL BE FLUSH WITH FINISHED CEILING. SHALL BE OUTSIDE OF ALL HATCHED AREAS AND SHALL BE SPECIFIED BY THE ARCHITECT OF RECORD AND SUBSEQUENT CONSULTING ENGINEERS.
- 2) THE ACTUAL CEILING DESIGN AND COORDINATION OF LIGHTING AND MECHANICAL SYSTEMS SHALL BE THE RESPONSIBILITY OF THE ARCHITECT OF RECORD AND HIS SUBSEQUENT CONSULTING ENGINEERS.
- 3) THE CUSTOMER/CONTRACTOR SHALL BE RESPONSIBLE FOR FABRICATING, SUPPLYING AND INSTALLING ALL LIGHT, MECHANICAL AND STRUCTURAL SUPPORTING SYSTEMS. SIEMENS MEDICAL SOLUTIONS INC. IS ONLY RESPONSIBLE FOR THE SUPPLYING, INSTALLING AND CALIBRATION OF SMS EQUIPMENT AS SPECIFIED ON THE EQUIPMENT SCHEDULE AS SHOWN ON SHEET A-101.
- 4) ALL ELECTRICAL AND STRUCTURAL SYSTEMS SHOWN ON THE REFLECTED CEILING PLAN HAVE BEEN COORDINATED WITH THE EQUIPMENT LOCATIONS AS SHOWN ON THE 1/4" SCALE ARCHITECTURAL EQUIPMENT PLAN (SHEET A-101). ANY CHANGES TO THE SMS EQUIPMENT CONFIGURATION AS SHOWN, DUE TO PLACEMENT OF LIGHTING, STRUCTURAL, ELECTRICAL AND MECHANICAL SYSTEMS, MUST BE APPROVED IN WRITING BY THE SMS PROJECT MANAGER PRIOR TO THE COMPLETION OF CONSTRUCTION DOCUMENTS.



SAFETY/SERVICE CLEARANCE PLAN

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

CEILING
HEIGHT
REQUIREMENT

8 FT. - 11 IN.

ATTENTION:

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| | | | | | |
|--|--|--|---|--|-----------------------|
| | | | PROJECT MANAGER: CHRISTOPHER THOMAS TEL: (801) 209-6582 EXT: EMAIL: CHRISTOPHER.THOMAS@SIEMENS-HEALTHINEERS.COM | | |
| | | | SIEMENS | | |
| | | | INTERMOUNTAIN MEDICAL CENTER | | |
| | | | 5121 COTTONWOOD ST, MURRAY, UT 84107 CATH LAB #1 / ARTIS Q.ZEN CEILING | | |
| | | | PROJECT #: | | SHEET: |
| | | | 2100316 | | A-102 |
| | | | SHEET 2 OF 7 | | DRAWN BY: O. CARRILLO |
| | | | DATE: 04/12/21 | | |
| | | | SCALE: AS NOTED REF: CPD-192529 | | |
| | | | -ISSUE BLOCK- | | |

DATE QUOTE/REV. DATE
REV. 27

Intermountain Healthcare
IMC- Cath Lab 1 Remodel Project

5121 South Cottonwood Street
Murray, UT 84107

NJRA Project # 20229
Construction Documents December 15, 2021

Siemens
Equipment-
Architectural

EQ 102

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