S F E I R
A R C H I T E C T S

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JUNE 16, 2021

TRI-CITY MEDICAL CENTER

TCMC MRI

4002 VISTA WAY
OCEANSIDE, CA 92056

SA # 01907.01

BID ADDENDUM NO. 1

General:

All Contractors submitting proposals for the above named project shall take note of the following changes, additions, interpretations, clarifications, etc., in connection with the drawings and specifications and other general documents.
The following instructions have precedence over anything contrarily shown on the drawings or described in the specifications and shall be included in the contractor's bids.
Acknowledge receipt of this addendum by inserting its number and date in the space provided in the Bid Proposal.
Failure to do so may subject bidder to disqualification.

This addendum No. 1 consists of (185) pages.

PROJECT MANUAL:

Item No. 1 - Section: 00 01 01 - Cover

Add Delta 7 Design Changes 5/8/21 to cover page.
See attached revised cover sheet.

Item No. 2 - Section: 00 01 10 – Table of Contents

Add Delta 7 5/8/21 to section 10 26 00 Wall and Door Protection. See attached revised table of contents.

Add Delta 7 5/8/21 to section 23 09 00 HVAC Instrumentation and Controls. See attached revised table of contents.

Item No. 3 - Section: 10 26 00 - Wall and Door Protection

Add Delta 7 Design Changes 5/8/21 to section 10 26 00

Add the following:
"2.05 Protective Wall Covering, B. 2. Thickness: 0.06" ."

Item No. 4 - Section: 23 09 00 - HVAC Instrumentation and Controls.

TCMC has an existing working relationship with Climatec, and Climatec designs and installs climate control systems using non-proprietary equipment – and which is then more cost-effective to repair or replace as needed for TCMC.

Add Delta 7 Design Changes 5/8/21 to section 23 09 00

Delete the following:
"2.1 Manufacturers, A.1.a. Siemens Building Technologies, BACnet Systems."

Add the following:
"Alerton BACnet by Climatec, LLC."

DRAWINGS:

Item No. 1 - Sheet A1-01:

Delete temporary construction dumpster location by women's center door.

Add temporary construction dumpster location as shown in the new location highlighted with delta 7.

Item No. 2 - Sheet A1-11:

Add key note 15 to Side Yard Keynotes: "Repair non-functioning bollard to operate similar to nearby bollards including lighting, casing, etc."

Add key note 15 drawing 1/A1-11.

Item No. 3 - Drawing A4-00:

Delete Demolition General Note "N": "Drilling, ram-setting and saw cutting to be done during normal hours to be coordinated with the facility."

Add Demolition General Note "N": "Drilling, ram-setting and saw cutting to be done during normal hours to be coordinated with the facility."

Item No. 4 - Drawing A4-00:

Add key note 32 to Demolition Key Notes: "Remove wall paper and base in its entirety. Salvage bumper rails to be reinstalled."

Add key note 32 to First Floor Demo – West in south side of corridor as highlighted by delta 7.

Item No. 5 - Drawing A4-00:

Add key note 33 to Demolition Key Notes: "Existing expansion joint to remain. Remove expansion joint cover."

Add key note 33 to South West corner of existing office space to First Floor Demo – West as highlighted by delta 7.

Item No. 6 - Drawing A4-00:

Delete portion of saw cutting related to deleted drainage for the floor sink in equipment room 101.

Item No. 7 - Drawing A4-00:

Delete existing to be demolished door at 2/A4-00 on second floor near column line N4-NC.

Add existing to be demolished door at 2/A4-00 on second floor near column line N4-NC.

Item No. 8 - Drawing A4-01:

Delete graphics and dimensions of existing to be demolished door and wall at 1/A4-01 separating Trans room and corridor.

Add graphics and dimensions of existing to be demolished door and wall at 1/A4-01 separating Trans room and corridor.

Item No. 9 - Drawing A4-01:

Add key note 32 to Demolition Key Notes: "Remove wall paper and base in its entirety. Salvage bumper rails to be reinstalled."

Add key note 32 to First Floor Demo – West in south side of corridor as highlighted by delta 7.

Item No. 10 - Drawing A4-01:

Delete graphics for saw cut between gridlines N2 and N3.

Add graphics for saw cut between gridlines N2 and N3.

Item No. 11 - Drawing A4-00:

Delete existing to remain wall on south side of N4 and NG column at detail 2/A4-10 in NICU.

Add existing to be demolished wall on south side of N4 and NG column at detail 2/A4-10 in NICU.

Item No. 12 - Drawing A4-01:

Add room tag "Office" to existing office space.

Item No. 13 - Drawing A4-10:

Add key note 49 to Floor Plan Keynotes: "Add expansion joint cover AFW-200 by construction specialties. Overall dimension 7"."

Add key note 49 to South West corner of new MRI Equipment Room.

Extent of new wall fur out is on west side of MRI Equipment Room wall is revised.

Item No. 14 - Drawing A4-10:

Delete floor sink on south side of MRI Equipment Room.

Delete portion of concrete infill associated with deleted sanitary sewer.

Item No. 15 - Drawing A4-10:

Delete existing to remain wall on south side of N4 and NG column at detail 2/A4-10 in NICU.

Add new wall on south side of N4
and NG column at detail 2/A4-10 in NICU.

Item No. 16 - Drawing A4-11:

Delete new wall between inpatient and outpatient holding with wall tag "B" as highlighted in plan with delta 7.

Add new wall between inpatient and outpatient holding with wall tag "B1" as highlighted in plan with delta 7.

Item No. 17 - Drawing A4-11:

Delete new wall between new waiting room and existing office 113.

Add new wall between new waiting room and existing office 113 as highlighted in plan with delta 7.

Item No. 18 - Drawing A4-11:

Delete one chair from new waiting room.

Item No. 19 - Drawing A4-20:

Add room tag "Office" to existing office space.

Item No. 20 - Drawing A4-20:

Add ceiling height notations to existing ceilings in corridor as highlighted in plan with delta 7.

Item No. 21 - Drawing A4-31:

Delete new wall between new waiting room and existing office 113.

Add new wall between new waiting room and existing office 113.

Item No. 22 - Drawing A4-31:

Delete extent of soffit between new waiting room and corridor.

Add extent of soffit between new waiting room and corridor.

Item No. 23 - Drawing A4-40:

Add key note 56 to Elevation Keynotes: "Add expansion joint cover AFW-200 by construction specialties. Overall dimension 7"."

Add key note 56 to detail 5.

Item No. 24 - Drawing A4-40:

Detail 5, delete equipment on south wall.

Detail 5, add equipment on south wall.

Item No. 25 - Drawing A4-40:

Detail 9, delete keynote 6.

Detail 9, delete graphics for magnet shut down unit.

Item No. 26 - Drawing A4-40:

Detail 10, delete keynote 40.

Detail 10, delete graphics and dimensions for transfer cabinet.

Detail 10, Add graphics and dimensions for transfer cabinet.

Item No. 27 - Drawing A4-40:

Detail 20, delete graphics for electrical panel, waiting room opening, corner guards, door at office 113.

Detail 20, add graphics for electrical panel, waiting room opening, corner guards, door at office 113.

Item No. 28 - Drawing A4-40:

Add key note 57 to Elevation Keynotes: "Reinstall salvaged bumper rail. Typ."

Detail 21, delete keynote 22.

Detail 21, add keynote 57.

Item No. 29 - Drawing A4-41:

Delete key note 46: "24" x 18" 1 hour rated access panel."

Add key note 46: "New 24" x 18" 1 hour rated access panel."

Item No. 30 - Drawing A4-41:

Detail 1, delete graphics of wall protection.

Detail 1, add graphics of wall protection.

Detail 1, add dimension reading 4'-6" to top of wall protection.

Item No. 31 - Drawing A4-41:

Detail 2, delete graphics of wall protection.

Detail 2, add graphics of wall protection.

Detail 2, add dimension reading 4'-6" to top of wall protection.

Item No. 32 - Drawing A4-41:

Detail 3, delete graphics of wall protection.

Detail 3, add graphics of wall protection.

Detail 2, add dimension reading 4'-6" to top of wall protection.

Item No. 33 - Drawing A4-41:

Detail 3, delete graphics for cove light.

Detail 3, delete keynote 12.

Item No. 34 - Drawing A4-41:

Detail 8, add section callout 7/A5-80.

Item No. 35 - Drawing A5-10:

Detail 2, delete detail title: "Wall Type B – NR".

Detail 2, add detail title: "Wall Type B, B1 – NR".

Detail 2, add notation: "Wall Type: "B1" – Use 6" Steel Stud."

Item No. 36 - Drawing A5-34:

Detail 5, delete graphics an notations showing isolator connection to structure.

Detail 5, add graphics an notations showing isolator connection to structure as highlighted by delta 7.

Item No. 37 - Drawing A5-50:

Detail 1, add dimension line for quench vent enclosure.

Item No. 38 - Drawing A5-80:

Detail 7, delete graphics and notations showing fixed shelves and multiple doors.

Detail 7, add graphics and notations showing adjustable shelves and double doors.

Item No. 39 - Drawing A6-00:

Add key note 12 to Door Schedule Keynotes: "Reinstall existing accessibility push plate and card reader if damaged."

Add key note 12 to door 100A.

Item No. 40 - Drawing A6-20:

Delete graphics and tag for equipment 19 and 25 from Equipment Plan MRI.

Add two equipment tags for equipments 18 to Equipment Plan MRI.

Item No. 41 - Drawing A6-21:

Equipment 001 delete height and width values.

Equipment 001 add height and width values as highlighted with delta 7.

Equipment 003 delete weight value.

Equipment 003 add weight value.

Equipment 003 delete OFCI notation.

Equipment 003 add OFOI notation.

Equipment 005 delete weight and width values.

Equipment 005 add weight and width values as highlighted with delta 7.

Equipment 006 add center of mass value as highlighted with delta 7.

Equipment 007 delete OFCI notation.

Equipment 007 add OFOI notation.

Equipment 009 delete weight value.

Equipment 009 add weight value as highlighted with delta 7.

Equipment 018 delete equipment name “DC lighting controller”.

Equipment 018 add equipment name "Kenall DC Power Supply".

Equipment 019 delete equipment.

Equipment 025 delete equipment.

Item No. 42 - Drawing ID-01:

Delete note 12 of Finish Plan General Notes: "Contractor to include allowance for concrete slab sealer to be furnished and applied under all floor finishes on slab on grade."

Add note 12 of Finish Plan General Notes: "Contractor to include allowance for concrete slab sealer to be furnished and applied under all floor finishes on slab on grade to meet floor finish manufacturer's requirements and warranty."

Item No. 43 - Drawing ID-01:

Add key note 12 to Finishes Keynote: "Prep wall with (1) skim coat of gypsum compound. Prime and paint and reinstall salvaged bumper rails. Install backing per structural drawings in new wall infill."

Add key note 12 to First Floor Finish Plan – West in south side of corridor as highlighted by delta 7

Item No. 44 - Drawing ID-01:

Add key note 12 to Finishes Keynote: "Prep wall with (1) skim coat of gypsum compound. Prime and paint and reinstall salvaged bumper rails. Install backing per structural drawings in new wall infill."

Add key note 12 to First Floor Finish Plan – West in south side of corridor as highlighted by delta 7

Item No. 45 - Drawing ID-01:

Add key note 9 and graphics for extent of new floor finish to First Floor Finish Plan – West.

Item No. 46 - Drawing ID-01:

Add call out "See 8/ID-04 added under corner guard in Graphic Legend.

Item No. 47 - Drawing ID-01:

Delete graphics for floor sink in MRI Equipment Room.

Item No. 48 - Drawing ID-02:

Add key note 12 to Finishes Keynote: "Prep wall with (1) skim coat of gypsum compound. Prime and paint and reinstall salvaged bumper rails. Install backing per structural drawings in new wall infill."

Add key note 12 to First Floor Finish Plan – East in south side of corridor as highlighted by delta 7

Item No. 49 - Drawing ID-02:

Add key note 11 to Finishes Keynote: "Carpet floor, 6" rubber base, painted walls. Replace finishes to match existing."

Add key note 11 to First Floor Finish Plan – East in office 113 as highlighted by delta 7.

Item No. 50 - Drawing ID-02:

Delete graphics for extent of new floor finish north of Outpatient Holding in the corridor as highlighted by delta 7 cloud.

Add graphics for extent of new floor finish north of Outpatient Holding in the corridor as highlighted by delta 7 cloud.

Item No. 51 - Drawing ID-02:

Delete graphics for extent of new floor finish at Waiting Room, Office 113 and corridor as highlighted by delta 7 cloud.

Add graphics for extent of new floor finish at Waiting Room, Office 113 and corridor as highlighted by delta 7 cloud.

Item No. 52 - Drawing S0-2:

Delete note 15 from Structural Concrete Notes: "Maintain concrete above 50 degrees fahrenheit and in a moist condition for a minimum of 7 days after placement unless otherwise accepted by EOR."

Add note 15 from Structural Concrete Notes: "Maintain concrete above 50 degrees fahrenheit unless otherwise accepted by EOR."

Item No. 53 - Drawing S2-10:

Delete graphics for edge of slab location between control room and MRI procedure room as highlighted by delta 7 cloud.

Add graphics for edge of slab location between control room and MRI procedure room as highlighted by delta 7 cloud.

Item No. 54 - Drawing M3-03:

Delete key note 3 and notation "RS/RL" from Mechanical Piping Plan – Area A as highlighted with delta 7 cloud.

Add key note 3 and notation "RS/RL" from Mechanical Piping Plan – Area A as highlighted with delta 7 cloud.

Item No. 55 - Drawing M6-0:

Add key note 4 to MRI Chiller Schedule (For Reference Only. Chiller Designed by GE Medical): "Contractor to fill chilled water system. Fill system with mixture of 40% propylene glycol. Chilled water quality to meet requirements noted in MRI installation guide."

Add key note 4 to Roof Mounted Air Cooled Chiller.

Item No. 56 - Drawing P3-01:

Delete floor sink FS-1 on Plumbing Plan – Waste and Vent Area A.

Delete portion of sanitary sewer associated with deleted floor sink on Plumbing Plan – Waste and Vent Area A.

Item No. 57 - Drawing P3-03:

Delete trap primer TP-1 on Plumbing Plan – Pressure Piping Area A and associated keynote 2, 3, 4 and 3/4" ICW as highlighted by delta 7 cloud.

Delete key note 2 in Key Notes: "Provide connection to manual water backup system."

Delete key note 3 in Key Notes: "Provide drip pan."

Delete key note 4 in Key Notes: "Provide 1/2" tp line to trap primer inlet connection at floor sink. Refer to 3/p5-01 for details."

Item No. 58 - Drawing E0-03:

Add MRI Injector System and key note 1 to (E)1ECPG schedule.

Item No. 59 - Drawing E4-10:

Add key note 10 to Keynotes: "Dedicated electrical outlet for MRI injector. Contractor to install 4s j-box adjacent to outlet and directly below rf filter with single-gang cover plates. J-boxes are to be interconnected with 2"c.o. with nylon pull rope installed within the wall cavity. Coordinate mounting location and requirements with field conditions, MRI injector vendor, architectural plans/elevations and other trades as required."

Key note 10, duplex outlet graphics and junction box added to floor plan at wall between control room and MRI procedure room.

Item No. 60 - Drawing E6-20:

Delete key note 5 at Keynotes: "Provide and install 18"x6" cable/ladder tray. Coordinate mounting and requirements with vendor, architect other trades as required."

Add key note 5 at Keynotes: "provide and install 18"x6" cable/ladder trays - quantity/lengths/layouts as per the vendor drawings. Coordinate mounting and requirements with vendor, architect other trades as required."

Item No. 61 - Drawing E6-20:

Delete key note 9 at Keynotes: "Provide and install 18"x6" cable/ladder tray. Coordinate mounting and requirements with vendor, architect other trades as required."

Add key note 9 at Keynotes: "provide and install door switch and "MRI in-use" light. Refer to "interconnections" detail on vendor drawings for additional information. Route two (2) 3/4"c,2#12,1#12 g [one (1) each from each device] to "power gradient cabinet ("PGR") and terminate per manufacturer's recommendations. Coordinate mounting location and requirements with equipment vendor prior to rough-in."

Item No. 62 - Drawing E6-20:

Delete graphics for exit sign at entrance of control room on floor plan.

Item No. 63 - Drawing E6-20:

Delete key note 1 on floor plan pointing to junction box on east side of MRI procedure room.

Add key note 6 on floor plan pointing to junction box on east side of MRI procedure room.

Item No. 64 - Drawing E6-20:

Delete graphics for junction box, and key note 6 inside procedure room.

Add graphics for junction box, and keynote 1 and 6 inside wall separating control room and MRI procedure room.

Item No. 65 - Drawing FP-101:

Add note 9 to General Notes: "Fire watch, paid for by the contractor, for any area under construction, and for any down time in phases not under construction shall be provided in accordance with specification 21 13 13 section 1.03.a.3."

GENERAL:

Item No. 1 - Attached Pre-Bid Meeting Minutes – Issue date 6/17/21.

Item No. 2 - Attached Pre-Bid RFI Log – Dated 6/17/21.

Item No. 3 - Attached Construction Drawings Delta 7 – Dated 5/8/21.

TCMC MRI

TRI-CITY MEDICAL CENTER

4002 VISTA WAY
OCEANSIDE , CALIFORNIA92056

SPECIFICATIONS

PREPARED BY: ERIK LINDBERG, RA

SFEIR ARCHITECTS PROJECT NUMBER: 01907.01
OSHPD #: S200813-37-00

DATE: 3/11/20

DELTA 1 OSHPD COMMENTS 8/3/2020

DELTA 2 DESIGN CHANGES 8/10/2020

DELTA 3 OSHPD COMMENTS 10/2/2020

DELTA 4 OSHPD COMMENTS 11/24/2020

DELTA 5 DESIGN CHANGES 11/24/2020

DELTA 6 DESIGN CHANGES 4/20/21

DELTA 7 DESIGN CHANGES 5/8/21

REVIEWED IN ACCORDANCE WITH
THE REQUIREMENTS OF T24, CCR
APPROVED

Arash Altoontash, Senior Structural Engineer

March 09, 2021

Office of Statewide Health
Planning & Development
FACILITIES DEVELOPMENT DIVISION

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END OF SECTION

SECTION 10 26 00

WALL AND DOOR PROTECTION

PART 1 GENERAL

1.01 SUMMARY

A. Section Includes:
   1. Corner guards.
   2. Crash rails for wall protection.
   3. Plastic, impact-resistant, wall protection panels.

B. Related Requirements:
   1. Low-Emitting Material Requirements: Section 01 61 65.

1.02 REFERENCES

A. General Requirements: Refer to Section 01 42 00.

B. Abbreviations and Acronyms:
   1. PETG: Polyethylene terephthalate glycol-modified.

1.03 ADMINISTRATIVE REQUIREMENTS

A. Coordination: Coordinate installation with wall construction and finishes, including concealed blocking or anchoring devices, installation of wall base, and painting.

B. Sequencing: Complete all finishing operations, including painting, before beginning installation of wall and door protection materials.

1.04 ACTION SUBMITTALS

A. Procedures: Submit for review, acceptance and return in accordance with Section 01 33 00.

B. Product Data: Manufacturer's current product data sheets describing each system component and installation accessory to be supplied with all selected options clearly identified, basic uses, composition and materials, physical properties, precautions and limitations, applicable standards, approvals, and general installation procedures.

C. Shop Drawings: Submit shop drawings indicating locations, extent and installation details. Show methods of attachment to adjoining construction.

D. Samples:
   1. Samples for Verification:
      a. Corner Guards, Crash Rails, and Chair Rails: Submit 12 inch long full size profiles of each product type illustrating component design, configuration, color, and finish.
      b. Wall Protection Panels: Submit 8 inch square samples for verification of each product type and color indicated.

1.05 INFORMATIONAL SUBMITTALS

A. Procedures: Submit for information and verification in accordance with Section 01 33 00.

B. Manufacturer's Instructions:
   1. Submit Manufacturer's installation instructions.
      a. Include installation methods for each type of substrate indicated.
      b. Maintain one additional copy on site until completion of installation.

1.06 CLOSEOUT SUBMITTALS

A. Submit the following for Project record in accordance with Section 01 78 00:
   1. Operating and Maintenance Data: Maintenance data for wall protection system components for inclusion in the operating and maintenance manuals.
      a. Include cleaning and maintenance instructions for Owner's information.
   2. Warranty: Submit manufacturer's standard 5-year warranty.

1.07 DELIVERY, STORAGE, AND HANDLING

A. General Requirements: Comply with Section 01 60 00 and with Manufacturer's recommendations.

B. Delivery and Acceptance Requirements: Deliver materials to the Project site in unopened original factory packaging clearly labeled to show manufacturer.

C. Storage and Handling Requirements:
   1. Store materials in original, undamaged packaging in a cool, dry place out of direct sunlight and exposure to the elements. Maintain a minimum room temperature of 40 degrees F and a maximum of 100 degrees F.
   2. Store materials flat.

1.08 AMBIENT CONDITIONS

A. Acclimate materials in an environment between 65 degrees F and 75 degrees F for at least 24 hours prior to beginning the installation.

B. Temperature at the time of installation shall be between 65 degrees F and 75 degrees F and be maintained for at least 48 hours after the installation.

PART 2 PRODUCTS

2.01 REGULATORY REQUIREMENTS

A. Assemblies: Conform to all applicable codes including CBC.

B. Product shall comply with California 01350 specification for low VOC.

2.02 CORNER GUARDS

A. Basis of Design Manufacturer and Products:
   1. Manufacturer: Construction Specialties, Inc.; www.c-sgroup.com.
   2. Model: Acrovyn SSM-25 Series.

B. Description: Snap-on covers of Class 1 fire-rated resilient material, minimum 0.078 inch thick, free-floated over continuous retainer, surface-mounted and anchored to wall at 20 inches on center maximum; molded end caps color matched to covers.

C. Nominal Size: 2-inches by 2-inches by 4 feet high.

D. Fabrication:
   1. Fabricate components with tight joints, corners, and seams.
   2. Pre-drill holes for attachment.
   3. Form end trim closure by capping and finishing smooth.

E. Accessories: Provide attachment accessories as recommended by corner guard manufacturer.
   1. Fasteners: Bugle head screws.

2.04 CRASH RAILS

A. Basis of Design Manufacturer and Products:
   1. Manufacturer: Construction Specialties, Inc.; www.c-sgroup.com.
   2. Upper Crash Rail Product: Acrovyn 4000 Model SCR-50N.
   3. Lower Crash Rail Product: Acrovyn 4000 Model SCR-80N.
   4. Color: See Finish Legend on Drawings.

B. Engineered PETG Crash Rail Assembly: Surface mounted assembly consisting of standard aluminum clips with snap-on PETG cover and continuous integral shock absorbing cushions.
   1. End Caps and Corners:
      a. Mechanically fastened with concealed fasteners.
      b. Color matched.
      c. Removable.
      d. Provide 90 degree outside corners where indicated.
   2. Upper Crash Rail Nominal Height: 5 inches.
   3. Lower Crash Rail Nominal Height: 8 inches.
   4. Upper Crash Rail Wall Offset: 1-1/16 inches.
   5. Lower Crash Rail Wall Offset: 1-3/8 inches.
   6. Assembly to mount to wall with 1-inch wide aluminum mounting clips.

C. Texture: Shadowgrain.

2.05 PROTECTIVE WALL COVERING

A. Basis of Design Manufacturer and Product: See Finish Legend on Drawings.
   1. Construction Specialties, Inc. – Acrovyn.
   2. Color, Texture and Joint Detail: As indicated on Finish Legend.

B. Description: Vinyl/acrylic panels of gage indicated on Finish Legend.
   1. Size: Height as indicated by length required in one piece.
   2. Thickness: 0.06" 7 6/24/21

C. Accessories and Trim: Manufacturer's standard vinyl/acrylic alloy moldings and trim.

D. Adhesive: Contact type as recommended by the manufacturer and complying with Southern California VOC regulations and Section 01 61 65.

2.06 PERFORMANCE

A. Fire Performance Characteristics: Provide engineered wall protection system components with UL label indicating that they are identical to those tested in accordance with ASTM E84 for Class A/1 characteristics listed below:
   1. Flame Spread: 25 or less.
   2. Smoke Developed: 450 or less.

B. Impact Strength: Provide wall protection units that have been tested in accordance with the applicable provisions of ASTM F476 and ASTM B221.

C. Chemical and Stain Resistance: Provide wall protection system components with chemical and stain resistance in accordance with ASTM D543.

D. Color Match: Provide wall protection components that are color matched in accordance with the following:
   1. Delta Ecmc of no greater than 1.0 using CIELab color space.

2.07 MATERIALS

A. Extruded PETG Component Material: High-impact polyethylene terephthalate glycol-modified, nominal 0.078 inch thickness.

B. Absorption Cushion: Regrind PETG, PVC-free.

C. Extruded Aluminum: 6063-T6 alloy, nominal 0.075 inch thickness. Minimum strength and durability properties as specified in ASTM B221.

2.08 FABRICATION

A. Fabricate wall protection systems to comply with requirements indicated for design, dimensions, detail, finish and member sizes.

B. Factory form radius for installation on curved walls where indicated.

2.09 ACCESSORIES

A. Attachment hardware shall be appropriate for wall conditions.

B. Fasteners: All fasteners to be non-corrosive and compatible with aluminum components.
   1. All necessary fasteners to be supplied by the manufacturer.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verification of Conditions: Comply with Section 01 71 16.
   1. Existing Conditions: Verify of existing conditions before starting work. Verify that field measurements, surfaces, substrates and conditions are as required, and ready to receive Work.

B. Notification: Notify General Contractor of unsatisfactory conditions in writing with copy to Architect.
   1. Report prevailing conditions that will adversely affect satisfactory execution of the Work of this Section. Do not proceed with Work until unsatisfactory conditions have been corrected.

C. Acceptance: Beginning of work means acceptance of existing conditions by installer.

3.02 PREPARATION

A. Surface Preparation: Prior to installation, clean substrate to remove dirt, debris and loose particles. Perform additional preparation procedures as required by manufacturer's instructions.
   1. Surfaces to Receive Wall Panels: All wall surfaces to be smooth, level, clean, dry and free of any irregularities to provide a good adhesive grip and smooth application of wall panels.

B. Provide ventilation to disperse fumes during application of adhesive. Allow no containers of adhesive to be opened until all potential sources of flame or spark have been shut down or extinguished and until warning signs have been posted.

3.03 INSTALLATION

A. General: Install in accordance with manufacturer's published instructions and recommendations.
   1. Use only approved mounting hardware and adhesives.
   2. Locate all components firmly into position, level and plumb.

B. Corner Guard Installation: Install over corners, square and plumb, secured rigidly in position.
   1. Butt bottom of corner guard to top of base; with top of corner guard 4 feet above finish floor.

C. Crash Guard Installation:
   1. Adjust installed end caps as necessary to ensure tight seams.
   2. Where splices occur in horizontal runs, splice retainer and rail at different locations along the run.

D. Protective Wall Panel Installation:
   1. Adhesive: Comply with manufacturer's instructions regarding method of application, spread rate, drying time, open time and temperature and humidity limitations.
   2. Panels: Align and plumb the first sheet before allowing the glue lines to come together, then apply the sheet slowly from one side to the other to expel air. Roll uniformly with hard rubber roller.
   3. Install rigid sheets beveled at seams and chemically sealed. Butt adjoining panels tight, in straight, even line. Install panels without top cap, vertical divider bars, inside corner trim, or other joint accessories and trim unless otherwise detailed on Interior Design Drawings.
   4. Immediately remove any adhesive from face of panels using solvent recommended by panel manufacturer. Keep faces clean during application.
   5. Trim: Install trim at all exposed edges and outside corners.

3.04 CLEANING

A. Immediately upon completion of installation, clean material in accordance with manufacturer’s recommended cleaning method.

B. Remove surplus materials, rubbish and debris resulting from installation as work progresses and upon completion of work.

3.05 PROTECTION

A. Protect installed materials to prevent damage by other trades. Use materials that may be easily removed without leaving residue or permanent stains.

END OF SECTION

SECTION 230900

HVAC INSRUMENTATION AND CONTROLS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, General Requirements, apply to this Section.

1.2 SUMMARY

A. This Section includes control equipment for HVAC systems and components, including control components for terminal heating and cooling units not supplied with factory-wired controls. This section includes:

1. Control equipment.

2. Software.

3. Sensors.

4. Control Instruments.

5. Controllers.

6. Wiring and conduit in connection with HVAC Instrumentation and Controls in accordance with Division 16.

7. Power supply to HVAC Instrumentation and Controls unless otherwise specified under Division 16.

8. Commissioning of HVAC Instrumentation and Controls.

9. Trending and coordination with other trades for Commissioning of HVAC Systems.

B. Related Divisions include the following:

1. Division 22: Plumbing

2. Division 23: Heating, Ventilating and Air Conditioning

3. Division 26: Electrical

1.3 DEFINITIONS

A. DDC: Direct-digital controls.

B. LAN: Local area network.

C. MS/TP: Master-slave/token-passing.

D. BAS: Building Automation System

E. BACnet: Building Automation and Control Network Protocol by ASHRAE

F. BTL: BACnet Test Laboratory

G. PIO: Proportional Plus Integral Plus Derivative

H. RTD: Resistance Temperature Detection

I. BIBBS: BACnet Interoperability Building Blocks

J. XML: Extensible Mark-up Language

K. OBIX: Open Building Information Exchange

L. SOAP: Simple Object Access Protocol

1.4 REFERENCES

A. NFPA 90 – Installation of Air Conditioning and Ventilating Systems.

B. UL 864 – Control Units for Fire Protective Signaling Systems.

C. UL 916 – Energy Management.

D. NFPA 91A – Recommended practice for smoke control systems.

E. ADA – Americans with Disabilities Act.

F. UL 508A – Manufacturer listed control panel.

G. EIA/TIA-568 – Commercial Building Wiring Standard.

H. ASHRAE – American Society of Heating Refrigerating and Air Conditioning Engineers

I. ANSI/ASHRAE Standard 135-2008 BACnet

J. EMC Directive 89/336/EEC (European CE Mark)

1.5 SYSTEM DESCRIPTION

A. Control system consists of sensors, indicators, actuators, final control elements, interface equipment, other apparatus, and accessories to control mechanical systems.

B. All systems shall extend the existing DDC system and provide seamless integration and compatibility with the existing Siemens DDC systems serving Tricity Medical Center.

C. A distributed control system, complete with all software and hardware functions, shall be provided and installed. System shall be completely based on ANSI/ASHRAE Standard 135-2008, BACnet. This system is to control mechanical equipment specified using

native BACnet-compliant components. Non-BACnet-compliant or proprietary equipment or systems shall not be acceptable and are specifically prohibited.

D. Control system includes coordination with other trades from conception to completion of project to allow for a Commissioning and Operating HVAC Control System.

E. Control System includes wiring and conduit in connection with HVAC Instrumentation and Controls.

F. Control System includes the electrical power supply to HVAC Instrumentation and Controls, unless otherwise specified under Division 16. Coordinate with Electrical Contractor and other trades. Provide a complete and operational control system.

1.6 SYSTEM PERFORMANCE

A. Comply with the following performance requirements:

1. Graphic Display Time: Display graphic with minimum 20 dynamic points with current data within 10 seconds.
2. Graphic Refresh Time: Update graphic with minimum 20 dynamic points with current data within 8 seconds.
3. Object Command: Reaction time of less than two seconds between operator command of a binary object and device reaction.
4. Object Scan: Transmit change of state and change of analog values to control units or workstation within six seconds.
5. Alarm Response Time: Annunciate alarm at workstation within 45 seconds. Multiple workstations must receive alarms within five seconds of each other.
6. Program Execution Frequency: Run capability of applications as often as five seconds, but selected consistent with mechanical process under control.
7. Performance: Programmable controllers shall execute DDC PID control loops, and scan and update process values and outputs at least once per second.
8. Reporting Accuracy and Stability of Control: Report values and maintain measured variables within tolerances as follows:
9. The requirements here are state for verification and measurement purposed and do not reduce the accuracy requirements of sensors and other components specified.

    a. Water Temperature: Plus or minus 1°F.

    b. Water Flow: Plus or minus 5% of full scale.

    c. Water Pressure: Plus or minus 2% of full scale.

    d. Dew Point Temperature: Plus or minus 3°F.

    e. Relative Humidity: Plus or minus 5%.

    f. Airflow (Measuring Stations): Plus or minus 5% of full scale.

    g. Airflow (Terminal): Plus or minus 10% of full scale.

    h. Air Pressure (Space): Plus or minus 0.01-inch wg.

i. Air Pressure (Ducts): Plus or minus 0.1-inch wg.

1.7 SUBMITTALS

A. Provide a complete and comprehensive submittal package. Partial submittals shall not be accepted. Upon completion submit all compliance data and project record documents.

B. Product Data: Include manufacturer's technical literature for each control device. Indicate dimensions, capacities, performance characteristics, electrical characteristics, finishes for materials, and installation and startup instructions for each type of product indicated.

1. Each control device labeled with setting or adjustable range of control.

C. Shop Drawings: Detail equipment assemblies and indicate dimensions, weights, loads, required clearances, method of field assembly, components, and location and size of each field connection.

1. Schematic flow diagrams showing the systems for fans, pumps, coils, dampers, valves, and control devices.

2. Wiring diagrams: Power, signal, and control wiring. Differentiate between manufacturer-installed and field-installed wiring. Indicate LAN/ BACnet and or Gateway connections.

3. Color scheme for control wiring.

4. Details of control panel faces, including controls, instruments, and labeling.

5. Written description of sequence of operation.

6. Schedule of dampers including leakage and flow characteristics.

7. Schedule of valves including leakage and flow characteristics.

8. DDC System Architecture including number and location of controllers, computer and other hardware components.

9. System configuration showing peripheral devices, batteries, power supplies, diagrams, modems, and interconnections.

10. Detailed point list.

11. A floor plan indicating the actual location of room temperature sensor for coordination with furniture layout.

12. Program flow charting.

13. A floor plan indicating location of concealed duct static pressure sensors used for controlling air moving equipment.

D. User Interface Graphics: Provide a copy of each of the graphics developed for the Graphic User Interface including a flowchart indicating how the graphics are to be linked

to one another for system navigation. Obtain owner's approval prior to implementation. Update the graphics upon completion of the project based upon the end-user's input.

E. Installing company qualifications.

F. Manufacturer qualifications.

G. Commissioning of building automation system.

H. Installation verification of building automation system.

I. A letter of approval signed by the project commissioning authority indicating acceptance of sequence of operation.

J. Samples: Of each type of room temperature cover.

K. Software and Firmware Operational Documentation: Include the following:

1. Software operating and upgrade manuals.

2. Program Software Backup: On a magnetic media or compact disc, complete with data files.

3. Device address list.

4. Printout of software application and graphic screens.

5. Software license required by and installed for DDC workstations and control systems.

6. Domain, Subnet, & Channel ID's.

L. Software Upgrade Kit: For Owner to use in modifying software to suit future system revisions or monitoring and control revisions.

M. Field Test Reports: Indicate and interpret test results for compliance with performance requirements.

N. Maintenance Data: For systems to include in maintenance manuals specified in Division 1. Include the following:

1. Maintenance instructions and lists of spare parts for each type of control device.

2. Interconnection wiring diagrams with identified and numbered system components and devices.

3. Keyboard illustrations and step-by-step procedures indexed for each operator function.

4. Inspection period, cleaning methods, cleaning materials recommended, and calibration tolerances.

5. Calibration records and list of set points.

O. Project Record Documents: Record actual locations of control components, including control units, thermostats, and sensors. Revise Shop Drawings to reflect actual installation and operating sequences. Provide an updated floor plan indication the actual installed location of room temperature sensors and duct static pressure sensors.

P. 72-hour trend data.

Q. HVAC Instrumentation and Controls training program.

1.8 QUALITY ASSURANCE

A. Installing Company Qualifications:

B. Five years of experience in installation of similar systems for similar projects.

C. Experience in completing a minimum of three local projects of similar size with the type of DDC system specified for this project within the last five years.

D. A Building Automation Service Department within San Diego County with a 2-hour minimum response time for emergency service.

E. Manufacturer Qualifications: A firm experienced in manufacturing automatic temperature-control systems and with a record of successful in-service performance. The manufacturer's DDC control hardware and software shall have BACnet conformance approval from the BACnet Test Laboratory. The control system architecture shall consist of the components of one manufacturer regularly engaged in the production of open control systems and shall be the manufacturer's latest standard of design at the time of the bid.

F. Control Engineer Qualifications: A control Engineer shall oversee the design and installation of the DDC system. The Control Engineer shall have a minimum of five (5) years experience with the installing company at an equal level of responsibility. The Control Engineer shall have completed factory training for certification for the design, installation, start-up, and commissioning of the DDC components to be installed. The Control Engineer shall have experience in completing a minimum of two projects of similar size with the type of DDC system specified for this project. Removal or replacement of Control Engineer shall be subject to the owner's approval.

G. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use. All DDC controllers for this project shall be manufactured by single manufacturer. A mixture of DDC controllers by various manufacturers shall not be allowed. All DDC controllers, building controllers and application controllers shall communicate via BACnet LAN.

H. Comply with NFPA 90A, "Installation of Air Conditioning and Ventilation Systems."

I. Comply with ASHRAE 135 for DDC system control components.

J. Control panels and cabinets installed in this project shall be UL 508A listed as a complete assembly. All electronic components and devices shall be enclosed in NEMA rated enclosures.

K. All system levels shall be compliant with the BACnet Standard 135-2008. Upon completion of commissioning process and prior to acceptance, contractor shall provide a protocol analyzer and demonstrate that all system components that communicate within the system utilize the BACnet protocol. Contractor may at their expense hire a qualified, independently registered engineer to perform test. Any components that do not fully comply with the BACnet standard shall be replaced until entire system architecture is re-tested and compliant. Conflict resolution shall be submitted to BTL (www.BACnetassociation.org) at contractor's expense and BTL determination shall be final.

1.9 DELIVERY, STORAGE, AND HANDLING

A. Factory-Mounted Components: Where control devices specified in this Section are indicated to be factory mounted on equipment, arrange for shipping of control devices to unit manufacturer.

1.10 COORDINATION

A. Coordinate location of room temperature sensors, and other exposed control sensors with plans and room details before installation.

B. Coordinate supply of conditioned electrical circuits for control units and operator workstation.

C. Coordinate chiller control network requirements with chiller control requirements and control system components provided with the chiller equipment.

D. Coordinate equipment to achieve compatibility with motor starters and annunciation devices.

E. Coordinate with Division 16 for Electrical Power Supply to Control Equipment and Device. Unless otherwise specified under Division 16, provide and install all the electrical wiring/conduit and components for a complete and operational control system.

1.11 WARRANTY

A. The system shall include all hardware and software components warranty for a period of one year following the substantial completion date. Provide a five-year warranty for all actuators.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Manufacturer: Subject to compliance with requirements, installing company qualifications, and manufacturer's qualifications, provide products by the following. The manufacturer shall provide DDC control hardware and software with BACnet conformance approvals from the BACnet Test Laboratory.

1. Electric, Electronic, and DDC Systems:

a. ~~Siemens Building Technologies, BACnet Systems~~
Alerton BACnet by Climatec, LLC.

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2.2 DDC EQUIPMENT AND SOFTWARE

A. Operator Workstation

1. Update existing operation workstation programming and graphics to reflect changes made to system and to represent all data and control devices within scope of project.

B. Graphics software: Update existing front end graphics to reflect changes made to system within the contract. The current value and point name of every I/O point shall be shown on at least one graphic and in its appropriate physical location relative to building and mechanical systems.

C. Web Server and Web Access

1. Update existing web server programming and access to reflect changes made to system in scope of contractor.

D. Application-Specific DDC controllers:

1. Provide one native BACnet application specific controller for each piece of unitary mechanical equipment that adequately covers all objects listed. All controllers shall interface to building controller via MS/TP LAN using BACnet protocol. No gateways shall be used. Controllers shall include input, output and self-contained logic program as needed for complete control of unit.

2. Zone damper: Actuators shall be electronic with a means for lockable manual override.

3. Provide a metal NEMA 2 enclosure for actuator assembly of the zone controllers.

4. Provide a metal NEMA 2 enclosure for all electronic components of zone controller.

E. Software Capabilities: Update to latest version of software at Project completion. Include and implement the following capabilities from the control units:

1. Units of Measure: Inch-pound and SI (metric).

2. Load Control Programs: Demand limiting, duty cycling, automatic time scheduling, start/stop time optimization, night setback/setup, DDC with fine tuning, and trend logging.

3. HVAC Control Programs: Optimal run time, supply-air reset, and enthalpy switchover.

4. Programming Application Features: Include trend point, alarm messages, weekly scheduling, and interlocking.

5. Paging: Provide the means of automatic alpha numeric paging of personnel for user defined control system requirements.

2.3 CONTROL PANELS

A. Control Panels: Unitized cabinet with suitable brackets for wall or floor mounting, located adjacent to each system under automatic control. Provide common keying for all panels. Provide UL 508A listed panels as a complete assembly.

1. Fabricate panels of 0.06-inch- thick, furniture-quality steel, or extruded-aluminum alloy, totally enclosed, with hinged doors and keyed lock and with manufacturer's standard shop-painted finish.

2. Panel-Mounted Equipment: Temperature and humidity controllers, relays, and automatic switches; except safety devices. Mount devices with adjustments accessible through front of panel.

3. Door-Mounted Equipment: Flush-mount (on hinged door) manual switches, including damper-positioning switches, changeover switches, thermometers, and gages.

4. Graphics: Color-coded graphic, laminated-plastic displays on doors, schematically showing system being controlled, with protective, clear plastic sheet bonded to entire door.

5. Provide one uninterrupted power supply for each main control panel.

B. Alarm Panels: Indicating light for each alarm point, single horn, acknowledge switch, and test switch, mounted in hinged-cover enclosure.

1. Alarm Condition: Indicating light flashes and horn sounds.

2. Acknowledge Switch: Horn is silent and indicating light is steady.

3. Second Alarm: Horn sounds and indicating light is steady.

4. Alarm Condition Cleared: System is reset and indicating light is extinguished.

5. Contacts in alarm panel allow remote monitoring by independent alarm company.

C. Provide one external Uninterrupted Power Supply (UPS) in NEMA 1 enclosure for every DDC Control Panel. Enclosures on the roof shall be NEMA 12R.

2.4 SENSORS AND COMMUNICATION DEVICES

A. Electronic Sensors: Vibration and corrosion resistant; for wall, immersion, or duct mounting as required.

1. Thermistor Temperature Sensors (Thermistor):

a. Accuracy: Plus or minus 0.5°F at calibration point.

b. Wire: Twisted, shielded-pair cable.

c. Outside-Air Sensors: Watertight inlet fitting, shielded from direct sunlight.

2. Resistance Temperature Detectors (RTD): Platinum.

   a. Accuracy: Plus or minus 0.2% at calibration point.

   b. Wire: Twisted, shielded-pair cable.

   c. Insertion Elements in Ducts: Single point, 8-inches long; use where not affected by temperature stratification or where ducts are smaller than 9 sq. ft.

   d. Averaging Elements in Ducts: 36 inches long, flexible; use where prone to temperature stratification or where ducts are larger than 9 sq. ft.; length as required.

   e. Insertion Elements for Liquids: Brass socket with minimum insertion length of 2-1/2-inches.

3. Static-Pressure Transmitter: Nondirectional sensor with suitable range for expected input, and temperature compensated.

   a. Accuracy: 2% of full scale with repeatability of 0.5%.

   b. Output: 4 to 20 mA.

   c. Duct Static-Pressure Range: 0 to 5-inches wg.

4. Turbine Flow Insertion Tube Meters: Provide Dual Turbine Flow Insertion Tube Flow Meter with digital display of flow rate, total and 4-20 mA signal in NEMA 4X enclosure.

   a. Accuracy: ± 0.5% of reading at calibrated velocity.

   b. Output: 4 to 20 mA.

   c. Material rated for type and temperature of fluid.

5. Liquid Pressure Transmitters: Provide Liquid Pressure Sensors with accuracy of ± 1% operating environment or -40°F to 260°F with output signal of 4-20 mA.

6. Current Sensing Relays: Solid State AC switch with internal current transformer. The switch shall operate when the current level sensed by the internal current transformer exceeds the threshold value set by the adjustment knob. Provide relays with split core design for the range suitable for application. Coordinate with electrical contractor.

7. Current Transformer: Provide current transformers rated for the specified amperage. The transformer shall provide 0 to 5 VDC output signal.

8. Differential Pressure Switches: A diaphragm operated snap switch shall actuate the electrical circuit upon sensing of Differential Pressure. The setpoint range shall be 1 inch WC to 12 inch WC.

9. Electrical Valve/Damper Position Indication: Visual scale indicating percent of travel and 2- to 10-V dc feedback signal.

10. Humidity Sensors: Bulk polymer sensor element.

    a. Accuracy: 1% full range.

    b. Room Sensors: With locking cover matching room thermostats, span of 25 to 90% relative humidity.

    c. Duct and Outside-Air Sensors: With element guard and mounting plate, range of 0 to 100% relative humidity.

11. Pressure Transmitters: Direct acting for gas or liquid; range suitable for system; proportional output 4 to 20 mA.

12. Duct Smoke Detectors: Comply with NFPA requirements. Coordinate with Division 16 and Fire Alarm Systems.

13. Water Flow Switches: Pressure-flow switches of bellows-actuated mercury or snap-acting type, with appropriate scale range and differential adjustment, with stainless-steel or bronze paddle. For chilled-water applications, provide vaporproof type. Coordinate with chiller and boiler manufacturers. Flow switches shall be approved and or provided by these manufacturers.

14. Gateways and Direct LAN Connections: Coordinate with HVAC equipment manufacturers, provide and install a complete and operational control Gateway and or Direct LAN connection to the HVAC equipment. Coordinate with equipment manufacturers and other trades to avoid omission or duplication and assure a complete and operating system.

15. Room Temperature Sensor: White, with concealed thermometer and override switch. Install on a sealed airtight insulated backing base.

B. Switches and sensors applications:

1. Status Inputs for Fans: Current sensing relay.

2. Status Inputs for Pumps: Current sensing relay.

3. Status Inputs for other Electric Motors: Current-sensing relay.

4. Duct Temperature Sensors: 1000 Ohm RTD Duct Sensors with operating range of 20°F to 120°F.

5. Room Temperature Sensors: Thermistor to 55-95°F with ± 0.5°F accuracy.

6. Chilled Water Pipe Temperature Sensors: 1000 Ohm RTD Liquid Immersion Sensors with operating range 20°F to 70°F.

7. Hot Water Pipe Temperature Sensors: 1000 Ohm RTD Liquid Immersion Sensors with operating range of 30°F to 250°F.

8. Provide and install all other components indicated for complete and operational system.

2.5 ELECTRIC THERMOSTATS

A. Line-Voltage, On-Off Thermostats: Bimetal-actuated, open contact or bellows-actuated, enclosed, snap-switch type, or equivalent solid-state type, with heat anticipator, integral manual on-off-auto selector switch.

1. Equip thermostats, which control electric coiling fans directly, with off position on dial wired to break ungrounded conductors.

2.6 ACTUATORS

A. Electronic Damper, Large-Valve Actuators: Direct-coupled type designed for minimum 60,000 full-stroke cycles at rated torque.

1. Valves: Size for torque required for valve close-off at maximum pump differential pressure.

2. Dampers: Size for running torque calculated as follows:

a. Opposed-Blade Damper with Edge Seals: 5 inch-pounds/sq. ft. of damper.

b. Pressure Drop: Dampers with 2 to 3-inches wg of Pressure Drop.

3. Coupling: V-bolt and V-shaped, toothed cradle.

4. Overload Protection: Electronic overload or digital rotation-sensing circuitry.

5. Fail-Safe Operation: Mechanical, spring-return mechanism. Provide external, manual gear release on non-spring-return actuators.

6. Power Requirements (Modulating): Maximum 10 VA at 24-V ac or 8 W at 24-V dc.

7. Proportional Signal: 2- to 10-V dc or 4 to 20 mA, and 2- to 10-V dc position feedback signal.

8. Temperature Rating: 40 to 104°F.

9. Temperature Rating (Smoke Dampers): Minus 22 to plus 250°F.

10. Run Time: 12 seconds open, 5 seconds closed.

2.7 CONTROL VALVES

A. Type: Factory fabricated, of type, body material, and pressure class based on maximum pressure and temperature rating of piping system, unless otherwise indicated.

B. Globe Valves NPS 2 and Smaller: Bronze body, bronze trim, rising stem, renewable composition disc, and screwed ends with back-seating capacity, repackable under pressure.

C. Globe Valves NPS 2-1/2 and Larger: Iron body, bronze trim, rising stem, plug-type disc, flanged ends, and renewable seat and disc.

D. Hydronic system globe valves shall have the following characteristics:

1. Rating: Class 125 for service at 125 psig and 250°F operating conditions.

2. Internal Construction: Replaceable plugs and seats of stainless steel or brass.

a. Single-Seated Valves: Cage trim provides seating and guiding surfaces for plug on top and bottom of guided plugs.

b. Double-Seated Valves: Balanced plug; cage trim provides seating and guiding surfaces for plugs on top and bottom of guided plugs.

3. Sizing: 3-psig maximum pressure drop at design flow rate.

4. Flow Characteristics: Two-way valves shall have equal percentage characteristics; three-way valves shall have linear characteristics. Operators shall close valves against pump shutoff head.

E. Terminal Unit Control Valves: Globe valves with bronze body, bronze trim, two- or three-port as indicated, replaceable plugs and seats, union and threaded ends.

1. Rating: Class 125 for service at 125 psig and 250°F operating conditions.

2. Sizing: 3-psig maximum pressure drop at design flow rate, to close against pump shutoff head.

3. Flow Characteristics: Two-way valves shall have equal percentage characteristics; three-way valves shall have linear characteristics.

2.8 CONTROL CABLE

A. Electronic and Fiber-Optic Cable for Control Wiring: As specified in Division 16 Section "Control/Signal Transmission Media." Install control wiring in conduit except as specified under Part 3 of this section.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Verify that conditioned power supply is available to control units and operator workstation.

B. Verify that duct, pipe, and equipment-mounted devices and wiring and piping are installed before proceeding with installation.

C. Obtain the manufacturer data for the proposed HVAC equipment. Verify the electric power supply requirements of control interfaces and connections. Coordinate with electrical and mechanical contractors and other trades.

3.2 INSTALLATION

A. Install DDC Controllers for a complete and operational system. Install all DDC controllers inside NEMA rated control panels.

B. Install in accordance with manufacturer's instructions and full compliance of Division 16.

C. Install control wiring and electrical work in accordance with National Electrical codes and Division 16. In addition to the requirements specified herein, the wiring installation shall meet the requirements of EIA/TIA Standard 568, Commercial Building Standard for telecommunication pathways and spaces.

D. Wiring Inside Rigid Conduit: Outdoor exposed areas and areas exposed to weather. Minimum conduit size 3/4-inch.

E. Plenum Rated Wiring: Concealed areas above ceilings. Coordinate with electrical contractor. Support final connection wiring in accordance to National Electric Code and at every four feet. Diagonal installation shall not be accepted. Provide sleeves for wall penetrations.

F. Identification Standards:

1. Node Identification: All nodes shall be identified by a permanent label fastened to the outside of the enclosure.

2. Cable shall be labeled at a minimum of every 18-inch with the type of signal carried within the cable.

3. Raceway Identification: All the covers to junction and pull boxes of the control raceways shall be painted with the appropriate color.

4. Wire Identification: All low and line voltage control wiring shall be identified by a number, as referenced to the associated shop drawing and as-built drawing.

5. Control wiring color coding shall be consistent throughout this project. Coordinate with the owner and other trades. Provide communication and control wiring with proper identification and labeling. Clearly label and color code control wiring as follows:

a. Orange: Local area network wiring.

b. Blue: Analog and digital, input or output points.

c. Green: Low voltage power wiring.

d. White: Line voltage wiring, or per National Electric Codes.

G. Do not install low and line voltage wiring in the same conduit.

H. Provide and install wiring and conduit in connection with HVAC instrumentation and controls for complete operational system.

I. Provide and install electrical power supply to HVAC instrumentation and controls unless otherwise specified under Division 16. Coordinate with Division 16.

J. Install transformers inside NEMA rated control enclosures.

K. Label all control components and instruments.

L. Verify the actual location of room temperature sensors prior to installation. Coordinate with furniture layout. Assure the location of each room temperature sensor is within the zone of the corresponding HVAC equipment. Verify that the room sensor locations provides an acceptable measurement of the controlled environment. Comply with ADA requirements.

M. Perform and document comprehensive testing for all control installation. Provide necessary instruments and equipment to document the results.

1. Verify that circuits are continuous and free from short circuits and grounds.

2. Verify that circuits are free from unspecified ground. The resistance to ground of all circuits shall be over 50 megaOhms.

3. Verify that circuits are free from induced voltage.

4. Provide complete testing for all cables used under this contract. Provide all equipment, tools, and personnel as necessary to conduct these tests.

5. Provide for complete grounding of all signal and communication cables, panels, and equipment so as to ensure system integrity of operation. Ground cabling and conduit at the panel terminations. Avoid grounding loops.

N. Installation Quality Requirements: In addition to the requirements of Division 16, manufacturer's recommendation and National Electric Codes, provide installation quality requirements specified here for a complete and operational control system.

1. All conduits and raceways shall be installed level, plumb, at right angles to the building lines and shall follow the contours of the surface to which they are attached.

2. Flexible Metal Conduit shall be used for vibration isolation and shall be limited to 3 feet in length when terminating to vibrating equipment. Flexible Metal Conduit may be used within partition walls. Flexible Metal Conduit shall be UL listed.

3. Provide firestopping for all penetrations.

4. All openings in fire proofed or fire stopped components shall be closed by using approved fire resistive sealant.

5. All wiring passing through penetrations, including walls, shall be in conduit or enclosed raceway.

6. Penetrations of floor slabs shall be by core drilling. All penetrations shall be plumb, true, and square.

7. No penetrations in structural elements shall be made before receipt of written approval from the architect.

3.3 COMMISSIONING OF BUILDING AUTOMATION SYSTEM

A. Commissioning per ASHRAE Standards. Commissioning Report shall include the following:

1. 72-hour Trend Data.

2. Installation Verification of Building Automation System.

B. Refer to Mechanical Commissioning Section. Coordinate and provide the required expertise and services for a complete commissioning process. Coordinate with all other trades for a complete commissioned system. Coordinate with the commissioning authority.

C. Documents results in Standard Forms recommended by DDC manufacturer or other established organizations. Comply with the similar standards established by AABC, NEBB or ASHRAE. Obtain approval prior to commencement of the work.

D. Attend the monthly commissioning meeting. Coordinate with the commissioning authority of the project.

E. The Control Contractor's Engineer shall be present on-site for all commissioning activities involving equipment and systems controlled and monitored by the DDC system. In addition, provide no less than 45 working days for on-site support during the functional performance test.

3.4 72-HOUR TREND DATA

A. Upon completion after project provide a 72-hour data indicating complete operation of DDC System. Final acceptance of the completion of the DDC shall be based upon the 72-hour Trend Data. The Trend Data shall be in form of color Trend Graph. Provide Trend Data of all temperatures, air- and water- flow quantities, and equipment status points. This shall include room, outside air, chilled water, heating hot water, condensing water temperatures and set points. Trend data shall also include duct and pipe pressures and set points. The trend data shall also include variable frequency drive speed and frequency. It shall also include outside, return and supply air quantities and position of dampers. Provide trend data for kW meter and chiller operation. Submit specified list of points and graphic format of trending for approval prior to commencement of 72-hour trending. Coordinate with commissioning agent.

B. Provide additional 72-hour trend data as required until full compliance.

C. A factory-trained control technician with minimum of 3 years experience shall be physically present at the jobsite from 8:00 am to 5:00 pm during every 72-hour trending process until final acceptance.

D. Upon completion submit the results indicating compliance in one complete package. Submit 6 sets.

3.5 INSTALLATION VERIFICATION OF BUILDING AUTOMATION SYSTEM

A. CONTROLLER VERIFICATION: Perform verification procedure on each DDC controller prior to software installation and prior to commencement of point to point check-out.

B. Verify installation of labels and nameplates to identify control components according to Division 23.

C. Verify installation of hydronic instrument wells, valves, and other accessories according to Division 23.

D. Document results in Standard Forms recommended by DDC manufacturer or other established organizations. Comply with similar standards established by NEBB or ASHRAE. Obtain approval prior to commencement of the work.

E. Upon completion submit the results indicating compliance.

3.6 FIELD QUALITY CONTROL

A. Manufacturer's Field Service: Engage a factory-authorized service representative to inspect field-assembled components and equipment installation, including piping and electrical connections. Report results in writing.

1. Operational Test: After electrical circuitry has been energized, start units to confirm proper unit operation. Remove malfunctioning units, replace with new units, and retest.

2. Test and adjust controls and safeties. Replace damaged and malfunctioning controls and equipment, and retest.

3. Calibration test electronic controllers by disconnecting input sensors and stimulating operation with compatible signal generator.

B. Engage a factory-authorized service representative to perform startup service.

C. Replace damaged or malfunctioning controls and equipment.

1. Start, test, and adjust control systems.

2. Demonstrate compliance with requirements, including calibration and testing, and control sequences.

3. Adjust, calibrate, and fine tune circuits and equipment to achieve sequence of operation specified.

D. Verify DDC as follows:

1. Verify software including automatic restart, control sequences, scheduling, reset controls, and occupied/unoccupied cycles.

2. Verify operation of operator workstation.

3. Verify local control units including self-diagnostics.

3.7 DEMONSTRATION

A. Engage a factory-authorized service representative to train Owner's maintenance personnel to adjust, operate, and maintain control systems and components.

1. Train Owner's maintenance personnel on procedures and schedules for starting and stopping, troubleshooting, servicing, and maintaining equipment and schedules.

2. Provide operator training on data display, alarm and status descriptors, requesting data, executing commands, calibrating and adjusting devices,

resetting default values, and requesting logs. In addition to training requirements specified elsewhere, include a minimum of 15 hours' dedicated factory instructor time on-site.

3. Review data in maintenance manuals. Refer to Division 1 Section "Contract Closeout."

4. Review data in maintenance manuals. Refer to Division 1 Section "Operation and Maintenance Data."

5. Schedule training with Owner, through Architect, with at least seven days' advance notice.

END OF SECTION

PROJECT NAME: TCMC MRI
PROJECT NUMBER: 01907.03
PROJECT MANAGER: Joseph Sfeir

Pre-Bid RFIs

Print Date: 6/17/21

SA RFI #	GC RFI #	Contractor Name	Subject	Response
001	001	Climatec	"Request for Substitution" (RFS) for the BMS Controls. May we include Climatec to be added as a 2nd controls bidder.	Alerton BACnet by Climatec, LLC. to be HVAC instrumentation and controlls. See attached revised spec section 23 09 00 Part 2 Section 2.1.A.1.
002	001	HDC	Please provide Tri-City Medical Centers preferred vendor list including controls contractor and controls system type.	Preferred vendors are shown in contract documents. See attached revised spec section 23 09 00 Part 2 Section 2.1.A.1.
003	002	HDC	1. Confirm Siemens is the campus controls contractor. 2. Confirm quench vent material type to be Aluminum or Stainless Steel to wave guide. 3. Confirm quench vent material type after wave guide. 4. Confirm if contractor to fill MRI chiller system. If so is max 40% propylene glycol required? Is city water mix acceptable?	1. Controls Contractor: See revised Specification Section 23 09 00 HVAC Instrumentation and Controls. 2 & 3. Quench Vent Material: See Specification Section 233113 Metal Ducts paragraphs 3.9.B and 3.9.E.2. Additionally see General Note #3 and Keynote #9 on drawing M3-01. 4. MRI CHW System: Contractor is to fill chilled water system. Fill system with mixture of 40% propylene glycol. Chilled water quality to meet the requirements noted in the MRI installation guide.
004	001	ETC	On elevation 21/A4-40, there are two runs of chair rail shown. Is this chair rail to be removed and reinstalled or be protected in place?	Bumper rail to be salvaged and reinstalled. Keynote 32 added to A4-00 and A4-41 added to salvage bumper rail. Keynote 12 added to ID-01 and ID-02 to reinstall salvaged bumper rail. Contractor to install backing in new wall infill.

SA RFI #	GC RFI #	Contractor Name	Subject	Response
005	002	ETC	There is no specification for the chair rail shown on detail 5/ID-04. It appears to be the same product as the upper crash rail shown on detail 12/ID-04. Is this correct?	Chair rail shown at 5/ID-04 is the same as the top of the crash rail at 12/ID-04.
006	003	ETC	On ID-02 in rooms 108,110,111, & 112, there appears to be wall protection shown, but it is labeled CHR for chair rail. Elevations on A4-41 show only chair rail in this area. Is the intent to provide wall protection paneling as well?	In room 108 there are chair rails, graphics on ID-02 are revised. In room 110 there is no chair rail or wall protection per contract documents. In room 111 there is no chair rail or wall protection. ID-02 graphics revised. In room 112 there are chair rails, graphics on ID-02 revised.
007	004	ETC	What thickness should wall protection paneling be? Standard is .040” or .060”	Project to use .060" wall protection. Notation "Thickness: 0.06" added as Part 2 Products: Section 2.05.B.2 in revised spec section 10 26 00.
008	005	ETC	Sheet A0-00 “seismic bracing” Note 2 “All pipes, duct etc….shall be braced..” Is the intent to bring existing utilities in the space up to current codes?	Yes. Per the contract documents, bring all existing utilities within project space up to current seismic bracing code. Submit an allowance into your bid package.
009	006	ETC	Sheet A0-00 General Notes note 24 “Contractor to include an allowance to furnish and apply Creteseal… For bidding purposes, is there a dollar amount that all contractors are to carry?	At per the Finish Plan General Notes: Note 12: Delete: “Contractor to include allowance for concrete slab sealer to be furnished and applied under all floor finishes on slab on grade.” Add: “Contractor to include allowance for concrete slab sealer to be furnished and applied under all floor finishes on slab on grade. To meet floor finish manufacturer's requirements and warranty.”

SA RFI #	GC RFI #	Contractor Name	Subject	Response
010	007	ETC	Sheet A4-00 Demolition General Notes: Note N “Drilling and Ramsetting to be done after hours”. How about the slab demolition?	Note N on A4-00 revised. Delete: "Drilling and ram-setting to be done after hours." Add: "Drilling, ram-setting and saw cutting to be done during normal hours to be coordinated with the facility."
011	008	ETC	Sheet A4-11 Floor Plan Keynotes Keynote 6 “Install new RF shielding wall”. Sheet A5-10 Detail 3 Shielding by MRI Corp, is the shielding scope including installation by MRI Corp?	MRI shielding scope to be included in this bid package.
012	009	ETC	Sheets A4-20 and FP-103 both indicate sprinkler system to be removed. Is the intent to provide temporary fire protection throughout the course of construction?	The general contractor shall provide fire watch in accordance with specification 21 13 13 Section 1.03.A.3.
013	010	ETC	Sheet A5-10 Detail 10 depicts a wall infill. Is there no requirement for insulation in the wall cavity?	Infills to have insulation. See graphics and notations added to 10/A5-10 to provide "Full height double faced glass fiber sound insulation".
014	011	ETC	Sheet A4-34 Detail 5 Chiller waterproofing depicts what appears to be 2 steel plates sandwiching the slab. Please specify thickness, metal bolt diameters etc.	Bolt diameter is shown on structural drawings per notations on 5/A4-34. See revised detail 5/A5-34.
015	012	ETC	Sheet S-02 Structural Concrete Note 15 calls for moist cure of concrete for 7 days. This is not practical. Is the use of a sacrificial curing compound acceptable?	Curing compound is acceptable.
016	013	ETC	Sheet M1-02 Project Notes, Note 4 states that the owner is to repair all air leaks prior to start of construction. Is this to be done prior to Pre-TAB?	Repair of duct leakage is intended to occurr before Pre-TAB to assist in post tab requirements of duct traverses and grille measurements.

SA RFI #	GC RFI #	Contractor Name	Subject	Response
017	014	ETC	Sheet M6-01 appears to indicate that GE is to provide CH1. Please confirm. For coordinating and bid purposes please provide contact for Ge or provide chiller data to determine size of crane/hoisting equipment necessary to place unit at its rooftop location.	GE to provide chiller. Contractor to install. Refer to mechanical drawing M6-01 and GE reference drawings located in the back fo the project manual for more information on the chiller.
018	015	ETC	Who is to provide the following systems and who are the preferred providers :Fire Alarm, Tele/Data, Security & Nurse Call	FA vendor is JJJ. Teledata and security vendor is HCI. Nurse Call system is West-Com.
019	016	ETC	Specs are missing DIV 27 & 28. Can you provide these specs?	No specs are being provided for these systems. All contracted requirements for installation are to follow the general guidelines of Division 26 with respect to materials and installation methods. All scopes of work for low voltage fire alarm and nurse call systems are to be coordinated with facility vendors. Drawings identify the scopes of work and specifications as necessary to properly bid and install the identified systems.
020	017	ETC	E4-00 note 5 calls out for an access panel to be installed. Who is to provide this?	General contractor is responsible to provide all access panels.
021	018	ETC	E4-00 note 5 says to box out around conduits or fire wrap them. Who is to provide this? Can we have a spec on what is required? Can we have a photo of the existing conduits?	No photos of existing conduits available. Contractor is required per code and the design drawings to properly fire caulk around all devices utilizing the fireproofing methods and materials identified in the specifications and on the architectural design drawings.

SA RFI #	GC RFI #	Contractor Name	Subject	Response
022	019	ETC	We are to match existing breakers in the following panels. Please provide information/Photos of the existing gear? ECDPC, EEDPC, HPA, 1ELHPA	Awarded contractor is responsible for verifying all field conditions and existing equipment prior to submission of shop drawings. Design drawings identify AIC ratings for panels and equipment as well as breaker sizes which are sufficient for bid purposes. Existing branch circuit panels are a combination of Square D NEHB (480/277V) and NQOD (208/120V); all existing distribution equipment is Square D QED type.
023	020	ETC	E4-12 note 4 says not used but is shown on the drawings- What does the note 4 mean on the drawings?	Keynote 4 scope is the same as Keynote 4 on Sheet E4-13. It is the transformer/power requirements for the reheat controls.

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Project: **TCMC 3-Tesla MRI Suite**

Projects number:	01907.03
Prebid Meeting 001 Date:	5/13/21
Prebid Meeting 002 Date:	5/17/21
Prebid Meeting 003 Date:	5/20/21

Prebid Meeting Minutes issued: 6/17/21

Present:

Steve Berner	TCMC
Ken Berry	Pyro-Comm
Corey Norris	Whiting Turner
Jose El Maasri	Firestone Builders
Kris Kay	DEB
Robert Ochoa	DEB
Steve Grav	HDC
Adam Hopkins	RJ Allen
Travis Krahel	NEW
Jama Nevin	ETC
Tom Ross	ETC
Ray Petersen	J&B
Emmanuel Bazan	JRG
Paul Hooshmand	ETC
Joseph Sfeir	Sfeir Architects
Michael Kosen	Sfeir Architects

PREBID CONFERENCE

1. Design team and Owner representatives were introduced:

   1.1. Steve Berner SGBerner@tcmc.com

   1.2. Joseph Sfeir jmsfeir@sfeirarch.com

   1.3. Michael Kosen mkosen@sfeirarch.com

2. Give brief overview of the project:

   Area of remodel 3,610 square feet.

   Install new MRI machine and support spaces.

   Install exhaust fans, chiller and condensers on the roof.

   Two construction phases.

3. Lines of communication for bid phase through the Architect, send all communications to both Joseph Sfeir and Michael Kosen and copy Steve Berner (TCMC):

   Joseph Sfeir jmsfeir@sfeirarch.com

   Michael Kosen mkosen@sfeirarch.com

   Steve Berner SGBerner@tcmc.com

4. Contractors to review the "Request For Bids", "Project Specifications and Pre-Qualification Information", "Specifications" and "Construction Documents" posted on the Tri City Medical Center website. The requirements indicated will be enforced in the administration of the bidding process and the Contract for Construction.

5. Review the Advertisement/ Invitation to bid:

   RFI are due on: June 10, 2021 at 5:00 pm by email.

   Bids are due on: June 24, 2021 at 3:00 pm by hard copy.

6. The following were reviewed any special conditions in the field:

   6.1. Dumpster location.

   6.2. Contractor parking.

   6.3. Contractor route of supplies and debris removal.

   6.4. GC to secure infection control permit from Tri City Medical Center prior to starting construction.

   6.5. Staging, within the construction area.

   6.6. Drilling and Cutting after hours. Include in Bid X-Ray of floor slab before cutting and drilling.

   6.7. Vendors will install equipment; contractor is responsible to anchor and power the equipment.

   6.8. Contractor is responsible to coordinate with equipment vendors.

END OF MEETING

Meeting Sign-in Sheet

Project Name:	**TCMC 3-Tesla MRI Suite**
Project Number:	01907.03
Date:	5/13/2021

SFEIR
ARCHITECTS

Attendees Name	Company	Phone No.	E-mail Address
KEN BERRY	PYRO-COMM	760-672-8142	KBERRY@PYROCOMM.COM
Joe ElMaasri	Firestone Builders	760-304-1234	Joe@FirestoneBuilders.com
COREY NORRIS	WHITING-TURNER	858-967.2591	corey.norris@whiting-turner.com
STEVE BERNER	TCMC	760-802-2681	BERNERSS@TCMC.COM
JOSEPH SFEIR	SFEIR ARCHITECTS	619-994-9896	JMSFEIR@SFEIRARCH.com.

Meeting Sign-in Sheet

Project Name:	**TCMC 3-Tesla MRI Suite**	
Project Number:	01907.03	
Date:	5/17/2021	

S F E I R
A R C H I T E C T S

Attendees Name	Company	Phone No.	E-mail Address
KRIS KAY	DEB CONSTRUCTION	858 333-6006	KKAY@DEBCONSTRUCTION.COM
Robert Ochoa.	DEB Construction	714-392 8282	rochoa@debconstruction.com
STEVE BERGER	TCMC	760.802.268	BERGERS9@TCMC.COM
Joseph Stein	SA	619-994-9896	JMSTEIN@STEINBRUH.COM

Meeting Sign-in Sheet

Project Name:	TCMC 3-Tesla MRI Suite
Project Number:	01907.03
Date:	5/20/2021

SFEIR
ARCHITECTS

Attendees Name	Company	Phone No.	E-mail Address
Steve Grev	HDC	714 215-7209	SGrev@hdcbuilders.com
Adam Hopkins	RJ Allen	714 980-7434	ADAM@RJALLENINC.COM
Corey Norris	W-T	858-967-2591	corey.norris@whiting-turner.com
Travis Krahel	National Electric Works	619-520-7316	TKRAHEL@NationalElectricWorks.Com
Michael Kosen	SFEIR Architects	858-699-1461	MKOSEN@SFEIRARCH.COM
Jaya Nevin	ETC	760 622 9380	jnevin@etcusa.net
Ray Petersen	J&B	619 520 5730	RPETERSEN@JACKSONANDBLAKE.COM
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Paul Hooshmand	ETC Building & Design	520-300-0645	Phooshmand@ETCUSA.net
Joseph SFEIR	SFEIR ARCHITECTS	619-994-9896	JMSFEIR@SFEIRARCH.COM
STEVE BERNER	TCMC	760-802-2681	JMSFEIR@SFEIRARCH.COM.
Tom Ross	ETC	619-250-4234	TR@ETCUSA.COM

TCMC MRI

Tri-City Medical Center

4002 VISTA WAY
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100% CONSTRUCTION DOCUMENTS 3/11/2020

1 DELTA 1 OSHPD COMMENTS 8/3/2020

2 DELTA 2 DESIGN CHANGES 8/10/2020

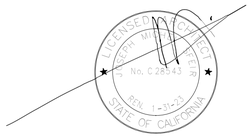
3 DELTA 3 OSHPD COMMENTS 10/2/2020

4 DELTA 4 OSHPD COMMENTS 11/24/2020

5 DELTA 5 DESIGN CHANGES 11/24/2020

6 ACD 001 DELTA 6 DESIGN CHANGES 4/10/2021

7 ACD 001 DELTA 7 DESIGN CHANGES 5/8/2021



ARCHITECTURE:

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La Mesa, CA 91942

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MECHANICAL & PLUMBING ENGINEERS:

SHADPOUR CONSULTING ENGINEERS, INC.

17075 Via Del Campo
San Diego, CA 92127

P: 858-946-0333

ELECTRICAL ENGINEER:

AG DESIGN

171 S. Anita Dr. Suite 111
Orange, CA 92868

P: 714-769-9900 Ext 201

MRI SHIELDING:

MRI CORPORATION

3554 Buisness Park Dr., Ste B
Costa Mesa, CA 92626

P: 714-545-7700

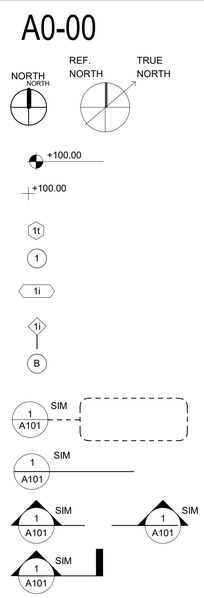
INTERIOR DESIGNER:

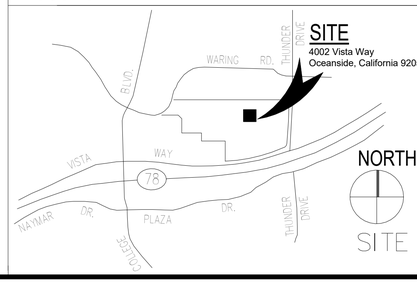
ISLEY DESIGN & PLANNING

1982 Palsero Avenue
Escondido, CA 92029

P: 760-484-0455

OSHPD PROJECT NUMBER:
S200813-37-00





ABBREVIATIONS:

ACT	ACOUSTICAL CEILING TILE	HORIZ	HORIZONTAL
ADJ	ADJACENT	ID	INSIDE DIAMETER
AFF	ABOVE FINISHED FLOOR	INSUL	INSULATION
ALUM	ALUMINUM	INT	INTERIOR
ALT	ALTERNATE	JAN	JANITOR
AP	ACCESS PANEL	LAM	LAMINATE
ARCH	ARCHITECT	LLH	LONG LEG HORIZONTAL
BD	BOARD	LLV	LONG LEG VERTICAL
BLDG	BUILDING	LGT WGT	LIGHT WEIGHT
BLK'G	BLOCKING	MAX	MAXIMUM
BM	BEAM	MECH	MECHANICAL
BOT	BOTTOM	MIN	MINIMUM
BTWN	BETWEEN	MISC	MISCELLANEOUS
CAB	CABINET	NIC	NOT IN CONTRACT
CAR	CARPET	NO / #	NUMBER
CEM	CEMENT	NTS	NOT TO SCALE
CT	CERAMIC TILE	NR	NOT RATED
CLG	CEILING	OC	ON CENTER
CLR	CLEAR	OD	OUTSIDE DIAMETER
CTR	COUNTER	OPNG	OPENING
COL	COLUMN	OPP	OPPOSITE
CONSTR	CONSTRUCTION	PL	PLATE/PROPERTY LINE
CONT	CONTINUOUS	PL LAM	PLASTIC LAMINATE
CORR	CORRIDOR	PLWD	PLYWOOD
DBL	DOUBLE	POL	POLISHED
DEPT	DEPARTMENT	PR	PAIR
DF	DRINKING FOUNTAIN	PT	PRESSURE TREATED
DIA	DIAMETER	PTD	PAINTED
DIM	DIMENSION	QTY	QUANTITY
DISP	DISPENSER	R	RADIUS
DN	DOWN	RD	ROOF DRAIN
DR	DRAIN	REF	REFERENCE
DET	DETAIL	REINF	REINFORCING
DWG	DRAWING	RM	ROOM
DWR	DRAWER	RO	ROUGH OPENING
EA	EACH	RUB	RUBBER
EJ	EXPANSION JOINT	SC	SOLID CORE
ELECT	ELECTRICAL	SCHED	SCHEDULE
ENCL	ENCLOSURE	SHR	SHOWER
EQ	EQUAL	SHT	SHEET
EW	EACH WAY	SIM	SIMILAR
EXG	EXISTING	SMS	SHEET METAL SCREW
ETR, (E)	EXISTING TO REMAIN	SPEC	SPECIFICATIONS
EXT	EXTERIOR	SQ	SQUARE
FD	FLOOR DRAIN	ST STL	STAINLESS STEEL
FEC	FIRE EXTINGUISHER CAB.	STD	STANDARD
FHC	FIRE HOSE CABINET	STOR	STORAGE
FIN	FINISH	STL	STEEL
FIXT	FIXTURE	STRUCT	STRUCTURE
FLR	FLOOR	SUSP	SUSPENDED
F.O.F.	FACE OF FINISH	TELE	TELEPHONE
FT	FEET	TEMP	TEMPORARY
FURR	FURRING	THK	THICK
FV	FIELD VERIFY	TYP	TYPICAL
GA	GAUGE	UON/UNO	UNLESS OTHERWISE NOTED
GALV	GALVANIZED	VCT	VINYL COMPOSITE TILE
GB	GRAB BAR	VERT	VERTICAL
GL	GLASS	VEST	VESTIBULE
GYP	GYPSUM	W/	WITH
GWB	GYPSUM WALL BOARD	WD	WOOD
HDR	HEADER	W/O	WITHOUT
HDWD	HARDWOOD	WGT	WEIGHT
HDWR	HARDWARE		
HGT	HEIGHT		

INTERIM LIFE SAFETY MEASURES

1. ALL EXIT DOORS SHALL BE OPENABLE FROM THE INSIDE WITHOUT USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT. PANIC HARDWARE AT EXITS SHALL BE PROVIDED AS REQUIRED BY CODE.
2. PRIOR TO THE START OF WORK CONSULT WITH FIELD FIRE MARSHAL ON AN ACCEPTABLE EXITING ARRANGEMENT. A FIRE WATCH MAY BE REQUIRED AT THE DISCRETION OF THE FIRE MARSHAL.

   INTERIM LIFE SAFETY MEASURES ARE REQUIRED TO TEMPORARILY COMPENSATE FOR DEFICIENCIES IN NORMAL LIFE SAFETY REQUIREMENTS DUE TO PROJECT ACTIVITIES AND SHALL MEET THE REQUIREMENTS OF OSHPD CAN 9-3301.
3. ENSURE THAT EXITS PROVIDE FREE AND UNOBSTRUCTED EGRESS. PERSONNEL SHALL RECEIVE TRAINING IF ALTERNATE EXITS MUST BE DESIGNATED. AREAS UNDER CONSTRUCTION MUST MAINTAIN ESCAPE FACILITIES FOR CONSTRUCTION WORKERS AT ALL TIMES. MEANS OF EGRESS MUST BE INSPECTED DAILY.
4. ENSURE THAT FIRE ALARM, DETECTION, & SUPPRESSION SYSTEMS ARE NOT IMPAIRED.
5. ENSURE THAT TEMPORARY CONSTRUCTION PARTITIONS ARE SMOKE-TIGHT AND CONSTRUCTED OF NON-COMBUSTIBLE MATERIALS.
6. PROVIDE ADDITIONAL FIREFIGHTING EQUIPMENT AND TRAIN PERSONNEL IN ITS USE.

SYMBOL LEGEND:

SEISMIC BRACING

1. SEISMIC BRACING - CBC 2019 CHAPTER 16A/ASCE 7-16 HVAC DUCTWORK, PLUMBING/ PIPING AND CONDUIT SYSTEMS.
2. ALL PIPES, DUCTS AND CONDUIT SHALL BE BRACED TO RESIST THE FORCES PRESCRIBED IN 2019 CBC CHAPTER 16A/ASCE 7-16. DUCTWORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH PROVISIONS CONTAINED IN PART 4, TITLE 24, CALIFORNIA MECHANICAL CODE. WHERE POSSIBLE, PIPES, CONDUIT, AND THEIR CONNECTIONS SHALL BE CONSTRUCTED OF DUCTILE MATERIALS (COPPER, DUCTILE IRON, STEEL OR ALUMINUM AND BRAZED, WELDED OR SCREWED CONNECTIONS). PIPES, CONDUITS AND THEIR CONNECTIONS, CONSTRUCTED OF NONDUCTILE MATERIALS (E.G., CAST IRON, NO-HUB PIPE AND PLASTIC), SHALL HAVE THE BRACE SPACING REDUCED TO SATISFY REQUIREMENTS OF ASCE 7-16, CHAPTER 13 AND NOT TO EXCEED ONE-HALF OF THE SPACING ALLOWED FOR DUCTILE MATERIALS.
3. NOT USED.

COMPONENTS THAT ARE INSTALLED IN-LINE WITH THE DUCT SYSTEM AND HAVE AN OPERATING WEIGHT GREATER THAN 75 LB. (334N), SUCH AS FANS, HEAT EXCHANGERS, AND HUMIDIFIERS, SHALL BE SUPPORTED AND LATERALLY BRACED INDEPENDENT OF THE DUCT SYSTEM AND SUCH BRACES SHALL MEET THE FORCE REQUIREMENTS OF SECTION 13.3.1. APPURTENANCES SUCH AS DAMPERS, LOUVERS, AND DIFFUSERS SHALL BE POSITIVELY ATTACHED WITH MECHANICAL FASTENERS. UNBRACED PIPING ATTACHED TO IN-LINE EQUIPMENT SHALL BE PROVIDED WITH ADEQUATE FLEXIBILITY TO ACCOMMODATE DIFFERENTIAL DISPLACEMENTS.

PIPING SYSTEMS SHALL SATISFY THE REQUIREMENTS OF THIS SECTION EXCEPT THAT ELEVATOR SYSTEM PIPING SHALL SATISFY THE REQUIREMENTS OF SECTION 13.6.10.

EXCEPT FOR PIPING DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH NFPA 13, SEISMIC SUPPORTS SHALL NOT BE REQUIRED FOR OTHER PIPING SYSTEMS WHERE ONE OF THE FOLL0WING CONDITIONS IS MET:

1. PIPING IS SUPPORTED BY ROD HANGERS: HANGERS IN THE PIPE RUN ARE 12 IN. (305 MM) OR LESS IN LENGTH FROM THE TOP OF THE PIPE TO THE SUPPORTING STRUCTURE; HANGERS ARE DETAILED TO AVOID BENDING OF THE HANGERS AND THEIR ATTACHMENTS; AND PROVISIONS ARE MADE FOR PIPING TO ACCOMMODATE EXPECTED DEFLECTIONS.
2. HIGH-DEFORMABILITY PIPING IS USED: PROVISIONS ARE MADE TO AVOID IMPACT WITH LARGER PIPING OR MECHANICAL COMPONENTS OR TO PROTECT THE PIPING IN THE EVENT OF SUCH IMPACT; AND THE FOLLOWING SIZE REQUIREMENTS ARE SATISFIED:
   - A. FOR SEISMIC DESIGN CATEGORIES D, E, OR F WHERE Ip IS GREATER THAN 1.0, THE NOMINAL PIPE SIZE SHALL BE 1 IN. (25 MM) OR LESS.
   - B. NOT USED.
   - C. FOR SEISMIC DESIGN CATEGORIES D, E, OR F WHERE Ip IS EQUAL TO 1.0, THE NOMINAL PIPE SIZE SHALL BE 3 IN. (76 MM) OR LESS.

4. WHERE LATERAL RESTRAINTS ARE OMITTED, THE PIPING, DUCTS, OR CONDUIT SHALL BE INSTALLED SUCH THAT LATERAL MOTION OF THE PIPING OR DUCT WILL NOT CAUSE DAMAGING IMPACT WITH OTHER SYSTEMS OR STRUCTURAL MEMBERS, OR LOSS OF VERTICAL SUPPORT.
5. ALL TRAPEZE ASSEMBLIES SUPPORTING PIPES, DUCTS, AND CONDUIT SHALL BE BRACED TO RESIST THE FORCES OF CHAPTER 16A/ASCE 7, CONSIDERING THE TOTAL WEIGHT OF THE ELEMENTS ON THE TRAPEZE.
6. PIPES, DUCTS AND CONDUIT SUPPORTED BY A TRAPEZE WHERE NONE OF THOSE ELEMENTS WOULD INDIVIDUALLY BE BRACED NEED NOT BE BRACED IF CONNECTIONS TO THE PIPE/CONDUIT/DUCTWORK OR DIRECTIONAL CHANGES DO NOT RESTRICT THE MOVEMENT OF THE TRAPEZE. IF THIS FLEXIBILITY IS NOT PROVIDED, BRACING WILL BE REQUIRED WHEN THE AGGREGATE WEIGHT OF THE PIPES AND CONDUIT EXCEEDS 10 POUNDS/ FEET (10 PLF). THE WEIGHT SHALL BE DETERMINED ASSUMING ALL PIPES AND CONDUIT ARE FILLED WITH WATER.
7. EQUIPMENT SUPPORTS AND ATTACHMENTS:
   SUPPORTS AND ATTACHMENTS OF ALL EQUIPMENT TO BE INSTALLED AS PART OF THIS PROJECT SHALL BE DETAILED ON CONSTRUCTION DOCUMENTS, EXCEPT THOSE EXEMPT BY THE CBC SECTION 1617A.1.18.
   EQUIPMENT SUPPORTS AND ATTACHMENTS SHALL BE APPROVED BY THE APPROPRIATE DESIGN PROFESSIONAL OF RECORD (RDP) AND OSHPD AS PART OF FIELD REVIEWS/OBSERVATIONS. THE INSPECTOR OR RECORD (IOR) SHALL ASSURE THAT THE ABOVE REQUIREMENTS ARE ENFORCED.

REFERENCE: CBC SECTIONS 107 AND 1617A.

NOTE:

SEISMICALLY RESTRAIN ALL SUSPENDED UTILITY SYSTEMS IN CONFORMANCE WITH REQUIREMENTS OF THE 2019 CALIFORNIA BUILDING CODE, CHAPTER 16A/ASCE 7-16. AS THE BASIS FOR THE RESTRAINT REQUIREMENTS, CALCULATE AND SUBMIT TOTAL DESIGN LATERAL FORCE(S) SPECIFIC TO THE PROJECT PER OSHPD REQUIREMENTS OF THE CBC AND ASCE 7-16 SECTION 13.5.6.

TYPICAL PRE-APPROVED SYSTEMS INCLUDE THE FOLLOWING:

OPM-0043-13 MASON INDUSTRIES, INC. SEISMIC RESTRAINT GUIDELINES FOR SUSPENDED DISTRIBUTION SYSTEMS.

REFERENCE: 2019 CAC SECTIONS 7-115, 7-126, AND CBC 2019 SECTION 107.

PRE-APPROVED PIPES, DUCTS, AND CONDUITS BRACING

A. LAYOUT DRAWINGS OF THE SUPPORTS AND BRACING SYSTEMS IN ACCORDANCE WITH THE PRE-APPROVAL SHALL BE SUBMITTED TO THE REGISTERED DESIGN PROFESSIONAL (RDP) IN RESPONSIBLE CHARGE OF THE PROJECT FOR REVIEW TO VERIFY THAT THE DETAILS ARE IN CONFORMANCE WITH ALL CODE REQUIREMENTS. THE LAYOUT DRAWINGS SHALL AS A MINIMUM SATISFY THE REQUIREMENTS OF ASCE SECTION 13.6 AS MODIFIED BY THE CBC 2019 SECTION 1617A.
   - a. THE STRUCTURAL ENGINEER OF RECORD (SEOR) SHALL VERIFY THAT THE SUPPORTING STRUCTURE IS ADEQUATE FOR THE LOADS IMPOSED ON IT BY THE SUPPORTS AND BRACES INSTALLED IN ACCORDANCE WITH THE PRE- APPROVAL IN ADDITION TO ALL OTHER LOADS.
   - b. THE SEOR SHALL FORWARD THE ANCHORAGE AND BRACING DRAWINGS (INCLUDING APPROVED CHANGE ORDERS FOR SUPPLEMENTARY FRAMING WHERE REQUIRED) TO THE DISCIPLINE IN RESPONSIBLE CHARGE WITH A NOTATION INDICATING THAT THE DRAWINGS HAVE BEEN REVIEWED AND ARE IN GENERAL CONFORMANCE WITH THE PRE-APPROVAL AND THE DESIGN OF THE PROJECT.
   - c. A "SHOP DRAWING STAMP" MAY BE USED TO INDICATE COMPLIANCE WITH THIS REQUIREMENT.
   - d. THE REGISTERED DESIGN PROFESSIONAL (OTHER THAN SEOR) MAY PROVIDE A SHOP DRAWING STAMP FOR SMALL PROJECTS AT THE DISCRETION OF THE DISTRICT STRUCTURAL ENGINEER.

B. THE SEOR SHALL DESIGN ANY SUPPLEMENTARY FRAMING THAT IS NEEDED TO RESIST LOADS, MAINTAIN STABILITY AND/OR IS REQUIRED FOR INSTALLATION OF THE PRE-APPROVED SYSTEM.
   - a. THE SUPPLEMENTARY FRAMING SHALL BE SUBMITTED TO OSHPD AS A CHANGE ORDER.

C. THE LAYOUT DRAWINGS (WITH THE SHOP DRAWING STAMP) SHALL BE SUBMITTED TO OSHPD TO REVIEW:
   - a. STRUCTURE SUPPORTING THE DISTRIBUTION SYSTEM HAS ADEQUATE CAPACITY.
   - b. SEISMIC DESIGN FORCES (FP) ARE IN ACCORDANCE WITH CBC , AND
   - c. CERTIFY SUBMITTAL IS WITHIN THE SCOPE OF OSHPD PRE-APPROVAL OF MANUFACTURER'S CERTIFICATION (OPM):
     - ·SIZE OF DISTRIBUTION SYSTEM COMPONENTS
     - ·SPACING OF BRACING AND FLEX JOINTS, AND
     - ·SUBSTRATE FOR ATTACHMENTS

D. THE LAYOUT DRAWINGS (W/ SHOP DRAWINGS STAMP) SHALL BE KEPT ON THE JOBSITE & CAN THEN BE USED FOR INSTALLATION OF THE SUPPORT & BRACING.
   - a. OSHPD FIELD STAFF WILL REVIEW THE INSTALLATION

E. A COPY OF THE CHOSEN BRACING SYSTEM(S) INSTALLATION GUIDE/OPM MANUAL SHALL BE ON THE JOBSITE PRIOR TO STARTING THE INSTALLATION OF HANGERS AND/OR BRACES.
   - a. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN COPIES OF OPM AND FURNISH THE IOR WITH ONE COPY OF EACH

F. COMPONENTS OF TWO OR MORE PRE-APPROVED BRACING SYSTEMS SHALL NOT BE MIXED.
   - a. ONLY ONE PRE-APPROVED BRACING SYSTEM MAY BE USED FOR A RUN OF PIPE, DUCT, OR CONDUIT
   - b. ANY SUBSTITUTION OF COMPONENT OF A PRE-APPROVED BRACING SYSTEM SHALL REQUIRE OSHPD REVIEW AND APPROVAL

   REFERENCE: CAC SECTIONS 7-115, 7-126, 7-153, AND CBC 2019 SECTION 107.

NOTE:

GC TO SUBMIT COORDINATION DRAWING BETWEEN STRUCTURAL FRAMING, MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION, FIRE ALARM, SHIELDING, AND GE BEFORE SHOP DRAWING APPROVALS.

GC TO CLARIFY IN BID DOCUMENTS HOW COORDINATION DRAWINGS WILL BE PRODUCED.

REQUIREMENTS FOR ACCESSIBILITY

1. IN ADDITION TO ALL LOCAL REQUIREMENTS AND THE AMERICANS WITH DISABILITIES ACT (ADA), ACCESSIBLE FEATURES SHALL COMPLY WITH THE STATE OF CALIFORNIA ADMINISTRATIVE CODE OF REGULATIONS, BUILDING CODE, TITLE 24, PART 2.
2. DURING ALL HOURS THE BUILDING IS OPEN TO THE PUBLIC, ALL PRIMARY ENTRANCES TO THE BUILDING, THE PRIMARY PATH OF TRAVEL FROM THE ENTRANCES TO ALL PORTIONS OF THE BUILDING INCLUDING SANITARY FACILITIES, DRINKING FOUNTAINS AND PUBLIC TELEPHONES SERVING THE BUILDING MUST BE ACCESSIBLE TO THE DISABLED.
3. ALL BUILDING ENTRANCES SHALL BE IDENTIFIED WITH AT LEAST ONE STANDARD SIGN AND WITH ADDITIONAL DIRECTIONAL SIGNS, AS REQUIRED, TO BE VISIBLE TO PERSONS ALONG APPROACHING PEDESTRIAN WAYS.
4. HAND-ACTIVATED DOOR OPENING HARDWARE SHALL BE CENTERED BETWEEN 34 INCHES AND 44 INCHES ABOVE THE FLOOR. LATCHING AND LOCKING DOORS THAT ARE HAND-ACTIVATED AND WHICH ARE IN A PATH OF TRAVEL SHALL BE OPERABLE WITH A SINGLE EFFORT BY LEVER-TYPE HARDWARE, PANIC BARS, PUSH-PULL ACTIVATING BARS OR OTHER HARDWARE DESIGNED TO PROVIDE PASSAGE WITHOUT REQUIRING THE ABILITY TO GRASP THE OPENING HARDWARE. LOCKED EXIT DOORS SHALL OPERATE AS ABOVE IN EGRESS DIRECTION. (CBC SECTION 11B-404.2.7)
5. MAXIMUM EFFORT TO OPERATE DOORS SHALL NOT EXCEED 5 POUNDS FOR EXTERIOR DOORS AND 5 POUNDS FOR INTERIOR DOORS, SUCH PULL OR PUSH EFFORT BEING APPLIED AT RIGHT ANGLES TO HINGED DOORS AND AT THE CENTER PLANE OF SLIDING OR FOLDING DOORS. COMPENSATING DEVICES OR AUTOMATIC DOOR OPERATORS MAY BE UTILIZED TO MEET THE ABOVE STANDARDS. WHEN FIRE DOORS ARE REQUIRED, THE MAXIMUM EFFORT TO OPERATE THE DOOR MAY BE INCREASED TO THE MINIMUM ALLOWABLE BY THE APPROPRIATE ADMINISTRATIVE AUTHORITY, NOT TO EXCEED 15 POUNDS. (CBC SECTION 11B-404.2.9)
6. THE BOTTOM 10 INCHES OF ALL DOORS EXCEPT AUTOMATIC AND SLIDING SHALL HAVE A SMOOTH, UNINTERRUPTED SURFACE TO ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION. WHERE NARROW FRAME DOORS ARE USED, A 10-INCH HIGH SMOOTH PANEL SHALL BE INSTALLED ON THE PUSH SIDE OF THE DOOR, WHICH WILL ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION. (CBC SECTION 11B-404.2.10)
7. FOR HINGED DOORS, THE OPENING WIDTH SHALL BE MEASURED WITH THE DOOR POSITIONED AT AN ANGLE OF 90 DEGREES FROM ITS CLOSED POSITION. AT LEAST ONE OF A PAIR OF DOORS SHALL MEET THIS OPENING WIDTH REQUIREMENT. (CBC SECTION 11B-404.2.2 & 11B-404.2.3)
8. MANUALLY OPERATED EDGE OR SURFACE MOUNTED FLUSH BOLTS ARE NOT ALLOWED. WHEN EXIT DOORS ARE USED IN PAIRS AND APPROVED FLUSH BOLTS ARE USED, THE DOOR LEAF HAVING THE AUTOMATIC FLUSH BOLTS SHALL HAVE NO DOOR KNOB OR SURFACE-MOUNTED HARDWARE. THE UNLATCHING OF ANY LEAF SHALL NOT REQUIRE MORE THAN ONE OPERATION.
9. THERE SHALL BE A LEVEL AND CLEAR FLOOR OR LANDING ON EACH SIDE OF A DOOR. THE LEVEL AREA SHALL HAVE A LENGTH IN THE DIRECTION OF DOOR SWING OF A LEAST 60 INCHES AND THE LENGTH OPPOSITE THE DIRECTION OF THE DOOR SWING OF 48 INCHES AS MEASURED AT RIGHT ANGLES TO THE PLANE OF THE DOOR IN ITS CLOSED POSITION.
10. THE WIDTH OF THE LEVEL AREA ON THE SIDE TO WHICH THE DOOR SWINGS SHALL EXTEND 24 INCHES PAST THE STRIKE EDGE OF THE DOOR FOR EXTERIOR DOORS AND 18 INCHES PAST THE STRIKE EDGE FOR INTERIOR DOORS. THE WIDTH OF THE AREA ON THE SIDE OPPOSITE THE SWING SHALL EXTEND 12 INCHES PAST THE STRIKE EDGE OF THE DOOR WHEN THE DOOR IS EQUIPPED WITH BOTH A CLOSER AND A LATCHSET.
11. ABRUPT CHANGES IN LEVEL ALONG ANY ACCESSIBLE ROUTE SHALL NOT EXCEED 1/2 INCH. WHEN CHANGES IN LEVEL DO OCCUR, THEY SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2 EXCEPT THAT LEVEL CHANGES NOT EXCEEDING 1/4 INCH MAY BE VERTICAL. WHEN CHANGES IN LEVELS GREATER THAN 1/2 INCH ARE NECESSARY THEY SHALL COMPLY WITH THE REQUIREMENTS FOR RAMPS. MINIMUM WIDTH SHALL BE 48".
12. MOUNTING HEIGHTS: THE MAXIMUM HEIGHT FOR HIGH REACH SHALL BE 48 INCHES AND THE MINIMUM LOW REACH SHALL BE 15 INCHES ABOVE FINISHED FLOOR.
13. DOORS LEADING TO MEN'S SANITARY FACILITIES SHALL BE IDENTIFIED BY AN EQUILATERAL TRIANGLE 1/4" THICK, WITH EDGES 12" LONG AND A VERTEX POINTING UPWARD. WOMEN'S SANITARY FACILITIES SHALL BE IDENTIFIED BY A CIRCLE 1/4" THICK AND 12" IN DIAMETER.
14. ALL-GENDER SANITARY FACILITIES SHALL BE IDENTIFIED BY A CIRCLE 1/4" THICK, 12" DIA., WITH A 1/4" THICK TRIANGLE SUPERIMPOSED ON THE CIRCLE AND WITHIN THE 12" DIAMETER.
15. GEOMETRIC (CIRCLE AND TRIANGLE) SYMBOLS SHALL BE CENTERED ON THE DOOR AT A HEIGHT OF 60" ABOVE FINISHED FLOOR AND THEIR COLOR AND CONTRAST SHALL BE DISTINCTLY DIFFERENT FROM THE COLOR AND CONTRAST OF THE DOOR.
16. ADDITIONAL SIGNAGE REQUIREMENTS: RAISED LETTERS SHALL BE PROVIDED AND SHALL BE ACCOMPANIED BY BRAILLE IN CONFORMANCE WITH SECTION 11B-703. THEY SHALL BE INSTALLED ON THE WALL ADJACENT TO THE LATCH OUTSIDE OF THE DOOR. WHERE THERE IS NO WALL SPACE ON THE LATCH SIDE, INCLUDING DOUBLE LEAF DOORS, SIGNS SHALL BE PLACED ON THE NEAREST ADJACENT WALL AND SIGNS SHALL BE MOUNTED 48" MINIMUM ABOVE FINISH FLOOR, MEASURED FROM THE BASELINE OF THE LOWEST LINE OF BRAILLE AND 60" MAXIMUM ABOVE THE FINISH FLOOR, MEASURED FROM THE BASELINE OF THE HIGHEST LINE OF RAISED CHARACTERS. CBC 11B-703.4.1

OSHPD INTENT STATEMENT

THE INTENT OF THE CONSTRUCTION DOCUMENTS IS TO RECONSTRUCT THE HOSPITAL BUILDING IN ACCORDANCE WITH THE 2019 CBSC. SHOULD ANY CONDITION DEVELOP NOT COVERED BY THE APPROVED CONSTRUCTION DOCUMENTS, WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH THE 2019 CBSC, AMENDED CONSTRUCTION DOCUMENTS (ACDS) DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY OSHPD BEFORE PROCEEDING WITH THE WORK.

OSHPD APPROVAL:

APPLICATION NUMBER: S200813-37-00

VICINITY MAP:

GENERAL NOTES

1. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR CHECKING CONTRACT DOCUMENTS, FIELD CONDITIONS AND DIMENSIONS FOR ACCURACY, AND CONFIRMING THAT WORK IS BUILDABLE AS SHOWN BEFORE PROCEEDING WITH CONSTRUCTION. IF THERE ARE ANY QUESTIONS REGARDING THESE OR OTHER COORDINATION ISSUES, THE GENERAL CONTRACTOR IS RESPONSIBLE FOR OBTAINING A CLARIFICATION FROM THE OWNERS' REPRESENTATIVE BEFORE PROCEEDING WITH WORK IN QUESTION OR RELATED WORK.
2. THE GENERAL CONTRACTOR SHALL INFORM THE OWNERS' REPRESENTATIVE, PRIOR TO CONSTRUCTION, OF ANY CONFLICTS THAT EXIST IN ANY AND ALL MECHANICAL, TELEPHONE, ELECTRICAL, LIGHTING, PLUMBING AND SPRINKLER EQUIPMENT LOCATIONS INCLUDING ALL PIPING, DUCTWORK AND CONDUIT, AND INSURE THAT ALL REQUIRED CLEARANCES FOR INSTALLATION AND MAINTENANCE ARE PROVIDED.
3. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL WORK AND MATERIALS IN ACCORDANCE WITH ALL CODES AND REQUIREMENTS OF STATE AND LOCAL REGULATORY AGENCIES.
4. ALL WORK NOT SPECIFICALLY COVERED IN THE CONTRACT DOCUMENTS SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH CONSTRUCTION INDUSTRY STANDARDS.
5. DRAWINGS, THOUGH NOTED TO SCALE, ARE DIAGRAMMATICAL. DO NOT SCALE DRAWINGS.
6. ALL HEIGHTS ARE DIMENSIONED FROM TOP OF SLAB UNLESS OTHERWISE NOTED.
7. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR DOCUMENTING ALL CHANGES TO THE CONSTRUCTION DOCUMENTS, NO MATTER HOW MINOR, FOR ASBUILT RECORD DOCUMENTS. THESE DOCUMENTS ARE TO BE GIVEN TO THE OWNERS' REPRESENTATIVE WITHIN 2 WEEKS AFTER FINAL COMPLETION.
8. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL UTILITIES INDICATED ON THE INTERIOR ELEVATIONS WITH THE ELECTRICAL AND PLUMBING SUBCONTRACTORS.
9. IN THE CASE OF CONFLICTS OR AMBIGUITIES NOT CLARIFIED PRIOR TO THE BIDDING DEADLINE, USE THE MOST COSTLY ALTERNATIVE (BETTER QUALITY, GREATER QUANTITY AND LARGER SIZE) IN PREPARING THE BID. A CLARIFICATION WILL BE ISSUED TO THE SUCCESSFUL BIDDER AS SOON AS FEASIBLE AFTER THE AWARD AND, IF APPROPRIATE, A DEDUCTIVE CHANGE ORDER WILL BE ISSUED.
10. ALL PENETRATIONS THROUGH FIRE RESISTIVE PARTITION AND SLAB, INCLUDING, BUT NOT LIMITED TO, CONDUITS AND PIPING, EXISTING OR NEW, SHOWN IN THE CONSTRUCTION DOCUMENTS SHALL BE CONSTRUCTED TO MEET APPROVED U.L. SYSTEM.
11. ALL PENETRATIONS INTO SOUND RATED PARTITIONS, INSULATED PARTITIONS OR CEILING ASSEMBLIES SHALL BE SEALED WITH APPROVED PERMANENT RESILIENT SEALANT. OR OTHERWISE TREATED TO MAINTAIN INTEGRITY OF THE ACOUSTICAL ASSEMBLY.
12. CONTRACTOR TO PREVENT GALVANIC ACTION AND OTHER FORMS OF CORROSION BY INSULATING METALS AND OTHER MATERIALS FROM DIRECT CONTACT WITH INCOMPATIBLE MATERIALS. THE GENERAL CONTRACTOR SHALL SEPARATE DISSIMILAR METALS WITH BUILDING PAPER OR PLASTIC SHIM.
13. THE CONTRACTOR SHALL PERFORM ALL CUTTING, PATCHING, AND FINISHING NECESSARY TO RESTORE THE ORIGINAL CONDITION OF THE BUILDING TO ALL EXISTING PORTIONS OF THE BUILDING AFFECTED BY HIS WORK, TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE.
14. WHEN INSTALLING DRILLED-IN ANCHORS AND OR POWDER DRIVEN PINS IN EXISTING NON-PRESTRESSED REINFORCED CONCRETE, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING STEEL. MAINTAIN A MINIMUM CLEARANCE OF ONE INCH BETWEEN THE REINFORCEMENT STEEL AND THE DRILLEDIN ANCHOR AND OR PIN.
15. THE CONTRACTOR SHALL COORDINATE ALL PHASING, ACCESS, DEBRIS, STAGING AREAS, AND HOURS OF CONSTRUCTION WITH OWNERS PRIOR TO START OF CONSTRUCTION.
16. CONTRACTOR TO PROVIDE REQUIRED DUST AND INFECTION CONTROL PROTECTION SYSTEM ABOVE AND BELOW CEILING TO ISOLATE THE CONSTRUCTION AREA WITH NEGATIVE PRESSURE. MEANS AND METHODS TO BE COORDINATED WITH OWNER.
17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SECURITY OF THE AREA OF THE PROJECT WORK AND SHALL ALSO BE RESPONSIBLE FOR THE DISCIPLINE OF ALL CONSTRUCTION WORKERS ON THE PROJECT.
18. THE GENERAL CONTRACTOR SHALL COORDINATE WITH STRUCTURAL, MEP, FIRE ALARM, FIRE PROTECTION, NURSE CALL, INTERIORS AND EQUIPMENT DRAWINGS PRIOR TO STARTING CONSTRUCTION. THE PROJECT MANUAL AND ALL DRAWINGS IN THE CONSTRUCTION DRAWINGS SHALL BE PART OF THE CONSTRUCTION DOCUMENTS.
19. THE GENERAL CONTRACTOR SHALL X-RAY AND/OR ULTRASOUND THE EXISTING CONCRETE FLOORS, WALLS AND STRUCTURAL SLAB ABOVE ANY POSSIBLE EMBEDDED CONDUITS, STRUCTURAL REBAR UNFORESEEN CONDITION THAT IS OUTSIDE THE SCOPE OF WORK AND MIGHT IMPEDE THE ANCHORING OF EQUIPMENT OR CONFLICT WITH TRENCHING PRIOR TO CONSTRUCTION.
20. CONTRACTOR STAGING TO BE IN THE ROOMS UNDER REMODEL.
21. CONTRACTOR PARKING TO BE IN CONTRACTOR DESIGNATED PARKING AREA.
22. THE CONTRACTOR SHALL ENSURE THAT THE AREA UNDER REMODEL IS LOCKED AND OTHERWISE SECURED AFTER HOURS.
23. THE GENERAL CONTRACTOR IS RESPONSIBLE TO CUT & PATCH TO MATCH ALL EXISTING PARTITIONS WHERE NEW FIRE ALARM AND ELECTRICAL DEVICES ARE REQUIRED AS SPECIFIED IN THE FIRE ALARM DRAWINGS.
24. CONTRACTOR TO INCLUDE AN ALLOWANCE TO FURNISH AND APPLY CRETESEAL 2000 CONCRETE SEALER OR APPROVED EQUAL ON SLAB ON GRADE.
25. SEE GENERAL NOTES ON SHEET A5-00 and A5-10 FOR ADDITIONAL RATED PENETRATION REQUIREMENTS.

DEFERRED APPROVAL:

- ♦ SIGNAGE
- ♦ MEP PIPE, DUCT, AND CONDUIT SUPPORTS & ATTACHMENTS

PROJECT INFORMATION:

SCOPE OF WORK:

DEMOLITION OF EXISTING WALLS, DOORS, FLOORS, ELECTRICAL, AND HVAC. INSTALLATION OF NEW MRI IN SHIELDED MRI ROOM WITH ASSOCIATED EQUIPMENT AND CONTROL STATION. CREATION OF OFFICE, OUTPATIENT WAITING AREA, DRESSING ROOM, TRANSFER AREA, AND MRI HOLDING AREA. ADA UPGRADE OF PUBLIC RESTROOMS. NEW CHILLER, SPLIT SYSTEMS, EXHAUST, AND QUENCH VENT ON ROOF.

AREA OF REMODEL: 3610 SF

BUILDING DESCRIPTION:

OSHPD FACILITY # 12372
BLD-02871 - PERINATAL UNIT / WOMENS CENTER - BLDG 15A
NUMBER OF STORIES: 2 STORIES
BUILDING TYPE - STEEL MOMENT RESISTING FRAME
BUILDING CONSTRUCTION TYPE: I-A, SPRINKLERD
BUILDING CONSTRUCTION YEAR: 1960
BUILDING ADDITION YEAR: 1995
OCCUPANCY TYPE: I-2

SPC 4
NPC: 2

CONSTRUCTION CLASSIFICATION:

SEISMIC: RISK CATEGORY VI, CLASS D-STIFF SOIL
3-HR STRUCTURAL FRAME
2-HR FLOOR-CEILING/ROOF
2-HR ROOF
2-HR SHAFT ENCLOSURE

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A1-04	PHASING PLAN
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A4-11	1/4" PARTIAL FLOOR PLAN
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A4-21	1/4" PARTIAL DEMO RCP
A4-30	1/4" PARTIAL RCP
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A4-40	1/4" INTERIOR ELEVATIONS
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A5-10	TYPICAL RATED PARTITION ASSEMBLIES
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A5-34	ROOF DETAILS PLAN & SECTION
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E4-01	1/4" PARTIAL DEMO PLAN
E4-10	1/4" PARTIAL FLOOR PLAN
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FOR REFERENCE ONLY, FOUND IN SPECIFICATION MANUAL:

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APPLICABLE CODES AND REGULATIONS:

2019	CALIFORNIA ADMINISTRATIVE CODE (CAC) (PART 1, TITLE 24, CCR)
2019	CALIFORNIA BUILDING CODE (CBC) (PART 2, TITLE 24, CCR)
2019	CALIFORNIA ELECTRICAL CODE (CEC) (PART 3, TITLE 24, CCR)
2019	CALIFORNIA MECHANICAL CODE (CMC) (PART 4, TITLE 24, CCR)
2019	CALIFORNIA PLUMBING CODE (CPC) (PART 5, TITLE 24, CCR)
2019	CALIFORNIA FIRE CODE (CFC) (PART 9, TITLE 24, CCR)

S F E I R
A R C H I T E C T S

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TCMC MRI

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5151 SHOREHAM PL SUITE 265
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STRUCTURAL:
MIYAMOTO INTERNATIONAL, INC.
5550 BALTIMORE DRIVE, SUITE 100
LA MESA, CA 91942
TEL(858)457-3001

MECHANICAL &PLUMBING:
SC ENGINEERS, INC.
17075 VIA DEL CAMPO
SAN DIEGO, CALIFRONIA 92127
TEL(858)946-0333

ELECTRICAL:
AG DESIGN, INC.
171 S. ANITA DR. SUITE 111
ORANGE, CALIFRONIA 92868
TEL(714)769-9900 EXT. 201

SHIELDING:
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3554 BUISNESS PARK DR., SUITE B
COSTA MESA, CA 92626
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LICENSED ARCHITECT
JOSEPH MICHEL SFEIR
No. C28543
REN. 1-31-23
STATE OF CALIFORNIA

REV:	DESCRIPTION:	DATE:
1	OSHPD COMMENTS	8/3/2020
2	DESIGN CHANGES	8/10/2020
3	OSHPD COMMENTS	10/2/2020
4	OSHPD COMMENTS	11/24/2020
5	DESIGN CHANGES	11/24/2020
6	ACD 0001 DESIGN CHANGES	4/10/2021
7	ACD 0001 DESIGN CHANGES	5/8/2021

CONSULTANT

OSHPD APPROVAL STAMP:
OSHPD #: S200813-37-00-ACD0001

SHEET TITLE:
PROJECT INFORMATION

PROJECT TITLE:
TCMC MRI

PROJECT #: 01907.01
DRAWN BY: WHK
CHECKED BY: EL
SCALE: PER TITLE
DATE: 3/11/2020

SHEET NUMBER:
A0-00

100% - CONSTRUCTION DOCUMENTS

GENERAL NOTES:

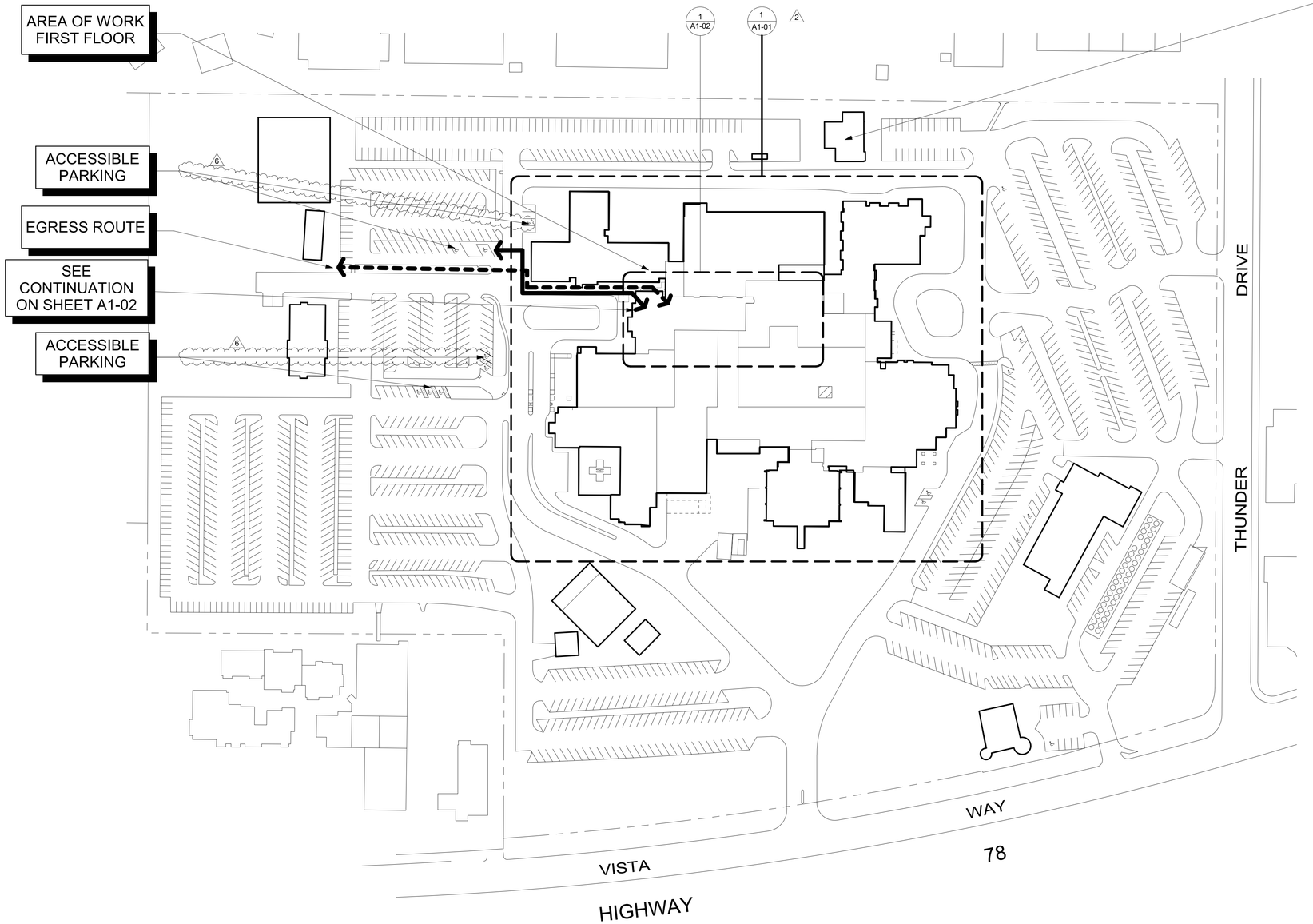
1. THE GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND MEASUREMENTS IN THE FIELD PRIOR TO STARTING CONSTRUCTION.
2. REFER TO GENERAL NOTES ON SHEET A0-00 FOR INFORMATION NOT INDICATED ON THIS SHEET.

CODE COMPLIANCE LEGEND:

1

ACCESSIBLE PATH OF TRAVEL.

EGRESS PATH OF TRAVEL.



1 Site
1" = 80'-0"

SFEIR ARCHITECTS

5151 Shoreham Pl, Suite 265
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TCMC MRI

Tri-City Medical Center

4002 VISTA WAY
OCEANSIDE CA, 92056

OWNER:	TRI-CITY MEDICAL CENTER 4002 VISTA WAY OCEANSIDE, CALIFORNIA 92056 TEL(760)940-7709
ARCHITECT:	SFEIR ARCHITECTS 5151 SHOREHAM PL SUITE 265 SAN DIEGO, CALIFORNIA 92122 TEL(619)299-3917
STRUCTURAL:	MIYAMOTO INTERNATIONAL, INC. 5550 BALTIMORE DRIVE, SUITE 100 LA MESA, CA 91942 TEL(858)457-3001
MECHANICAL &PLUMBING:	SC ENGINEERS, INC. 17075 VIA DEL CAMPO SAN DIEGO, CALIFORNIA 92127 TEL(858)946-0333
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INTERIORS:	ISLEY DESIGN & PLANNING 1982 PALSERO AVENUE ESCONDIDO, CA 92029 TEL(760)484-0455

LICENSED ARCHITECT
JOSEPH MICHAEL SFEIR
No. C 28543
REN. 1-31-23
STATE OF CALIFORNIA

REV:		DESCRIPTION:	DATE:
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4	4	OSHPD COMMENTS	11/24/2020
5	5	DESIGN CHANGES	11/24/2020
6	6	ACD 0001 DESIGN CHANGES	4/10/2021
7	7	ACD 0001 DESIGN CHANGES	5/8/2021

CONSULTANT

OSHPD APPROVAL STAMP:

OSHPD #: S200813-37-00-ACD0001

SHEET TITLE:

SITE - ZONING CODE

PROJECT TITLE:

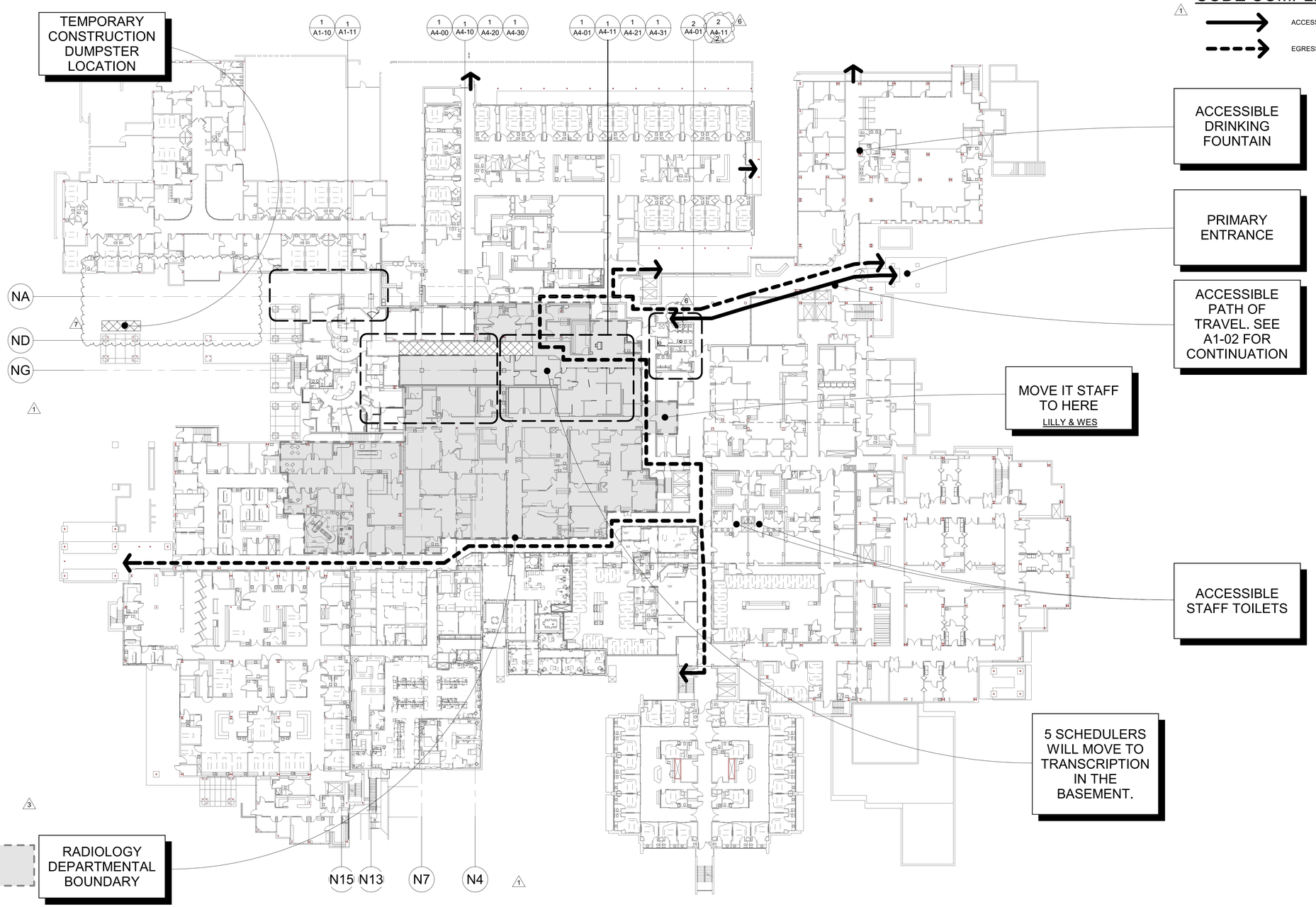
TCMC MRI

PROJECT #: 01907.01
DRAWN BY: WHK
CHECKED BY: Checker
SCALE: PER TITLE
DATE: 3/11/2020

SHEET NUMBER:

A0-01

100% - CONSTRUCTION DOCUMENTS



GENERAL NOTES:

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2. REFER TO GENERAL NOTES ON SHEET A0-00 FOR INFORMATION NOT INDICATED ON THIS SHEET.

CODE COMPLIANCE LEGEND:

1

ACCESSIBLE PATH OF TRAVEL.

EGRESS PATH OF TRAVEL.

1 EXISTING FIRST FLOOR OVERALL PLAN

1" = 30'-0"

NORTH

SFEIR ARCHITECTS

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LICENSED ARCHITECT
JOSEPH MICHAEL SFEIR
No. C 28543
REN. 1-31-20
STATE OF CALIFORNIA

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4	4	OSHPD COMMENTS	11/24/2020
5	5	DESIGN CHANGES	11/24/2020
6	6	ACD 0001 DESIGN CHANGES	4/10/2021
7	7	ACD 0001 DESIGN CHANGES	5/8/2021

REV: DESCRIPTION: DATE:

CONSULTANT

OSHPD APPROVAL STAMP:

OSHPD #: S200813-37-00-ACD0001

SHEET TITLE:

OVERALL FIRST FLOOR PLAN

PROJECT TITLE:

TCMC MRI

PROJECT #: 01907.01
DRAWN BY: WK
CHECKED BY: EL
SCALE: PER TITLE
DATE: 3/11/2020

SHEET NUMBER:

A1-01

100% - CONSTRUCTION DOCUMENTS

CODE COMPLIANCE KEYNOTES:

1. TEMPORARILY SHUTDOWN THIS CORRIDOR FOR APPROXIMATELY ONE MONTH TO FINISH THE HVAC WORK ABOVE THE CEILING.
2. INFECTION CONTROL ANTEROOM.
3. 1/2" CEMENTITIOUS BOARD ON BOTH SIDE OF LIGHT WEIGHT METAL STUD PARTITION AND 4'-0" DOOR AND LOCK.
4. ERECT AND TIGHTLY SEAL ON TOP OF PARTITION AND TO UNDERSIDE OF DECK WITH FIRE RESISTIVE VISQUEEN. TAPE ALL EDGES TO STOP AIR LEAKAGE.
5. PROVIDE TWO ZIPPER CURTAINS OF FIRE RESISTANT VISQUEEN. TEMPORARY EXITING PROVISIONS SHALL MEET THE REQUIREMENTS OF OSHPD CAN 9-3301 AND THAT CONSTRUCTION/INFECTION CONTROL BARRIER PLACEMENT SHALL BE COORDINATED WITH OSHPD FIELD FLSO.
6. FIRE RESISTIVE CORRUGATED BOARD - Coroplast® Firewall FRB Class 94V-2 BELOW CEILING TO SEPARATE CONSTRUCTION AREA FROM ADJACENT AREA. TEMPORARY EXITING PROVISIONS SHALL MEET THE REQUIREMENTS OF OSHPD CAN 9-3301 AND CONSTRUCTION/INFECTION CONTROL BARRIER PLACEMENT SHALL BE COORDINATED WITH OSHPD FIELD FLSO AND HOSPITAL REPRESENTATIVE.
7. TEMPORARY 6'HIGH CHAINLINK FENCE WITH 4'-0" GATE WITH LOCK.
8. 1-HOUR RATED TEMPORARY GYPSUM WALL BOARD AND METAL STUD PARTITION AND DOOR. TEMPORARY EXITING PROVISION SHALL MEET THE REQUIREMENTS OF OSHPD CAN 9-3301. CONSTRUCTION/INFECTION CONTROL BARRIER PLACEMENT SHALL BE COORDINATED WITH OSHPD FIELD FLSO.

GENERAL NOTES:

1. THE GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND MEASUREMENTS IN THE FIELD PRIOR TO STARTING CONSTRUCTION.
2. REFER TO GENERAL NOTES ON SHEET A0-00 FOR INFORMATION NOT INDICATED ON THIS SHEET.

CODE COMPLIANCE LEGEND:

ACCESSIBLE PATH OF TRAVEL.

EGRESS PATH OF TRAVEL.

NEW NON-SLEEPING ROOM
1,852 SF CARE SUITE (3)

119' TRAVEL DISTANCE FROM CARE SUITE DOOR TO EXIT

ACCESSIBLE PHONE ACCESS

SEE CONTINUATION ON SHEET A0-01

CONTINUATION ON 1/A1-01

ACCESSIBLE ENTRANCE

PUBLIC RESTROOM

PUBLIC RESTROOM

ACCESSIBLE DRINKING FOUNTAIN

72' MAX TRAVEL DISTANCE TO FIRE BARRIER DOOR

TRAINING KITCHEN
WAITING
RETAIL PHARMACY
WORK AREA
OFFICE
PHYSICAL THERAPY
JAN.
SOILED LINEN
RECEPTION
CORRIDOR
LOBBY
REG
NURSE
WAITING
TEACHING
ULTRA SOUND #1
ULTRA SOUND #2
WAITING
TOILET
PROC
PEDS REHAB
PEDS REHAB
WORK ROOM
EXISTING WAITING RM
OFFICE
TLT
CORRIDOR
ATM
WOMEN'S TOILET
JAN.
MEN TOILET
DK ROOM
TLT
NURSE
OFFICE
OFFICE
EXAM
-MRI EQUIP. RM
MRI EXAM ROOM
CONTROL ROOM
OUTPATIENT HOLDING
PATIENT RESTROOM
INPATIENT HOLDING
SUB-WAITING ROOM
PHYS. SUPPORT
ADA DRESSING ROOM
DRESSING ROOM
WAITING ROOM
TRANS
VIEWING
OFFICE
TLT
EXAM
EXAM
EXAM
MECH
COMPUTER
CONTROL
DK
POLY-STAR LAB ROOM
HOLDING
OFFICE
OFFICE
OFFICE
EXAM
UP
94' - 2"
34' - 6 1/2"
36' - 5"
17' - 11"
1' - 7 1/2"
1' - 0"
5' - 2"
1' - 0"
6' - 0"

PARTIAL FIRST FLOOR CODE COMPLIANCE PLAN

1 1" = 10'-0"

NORTH

S F E I R
A R C H I T E C T S

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TCMC MRI

Tri-City Medical Center

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OCEANSIDE, CALIFORNIA 92056
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ARCHITECT: SFEIR ARCHITECTS (6)
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SAN DIEGO, CALIFORNIA 92122
TEL(619)299-3917

STRUCTURAL: MIYAMOTO INTERNATIONAL, INC. (6)
5550 BALTIMORE DRIVE, SUITE 100
LA MESA, CA 91942
TEL(858)457-3001

MECHANICAL &PLUMBING: SC ENGINEERS, INC.
17075 VIA DEL CAMPO
SAN DIEGO, CALIFORNIA 92127
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ELECTRICAL: AG DESIGN, INC.
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TEL(714)769-9900 EXT. 201

SHIELDING: MRI SHIELDING CORPORATION
3554 BUISNESS PARK DR., SUITE B
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TEL(714)545-7700

INTERIORS: ISLEY DESIGN & PLANNING
1982 PALSERO AVENUE
ESCONDIDO, CA 92029
TEL(760)484-0455

LICENSED ARCHITECT
JOSEPH MICHAEL SFEIR
No. C 28543
REN. 1-31-23
STATE OF CALIFORNIA

1	1	OSHPD COMMENTS	8/3/2020
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REV: DESCRIPTION: DATE:

CONSULTANT

OSHPD APPROVAL STAMP:

OSHPD #: S200813-37-00-ACD0001

SHEET TITLE:

PARTIAL FIRST FLOOR CODE COMPLIANCE PLAN

PROJECT TITLE:

TCMC MRI

PROJECT #: 01907.01
DRAWN BY: Author
CHECKED BY: Checker
SCALE: PER TITLE
DATE: 3/11/2020

SHEET NUMBER: A1-02

100% - CONSTRUCTION DOCUMENTS

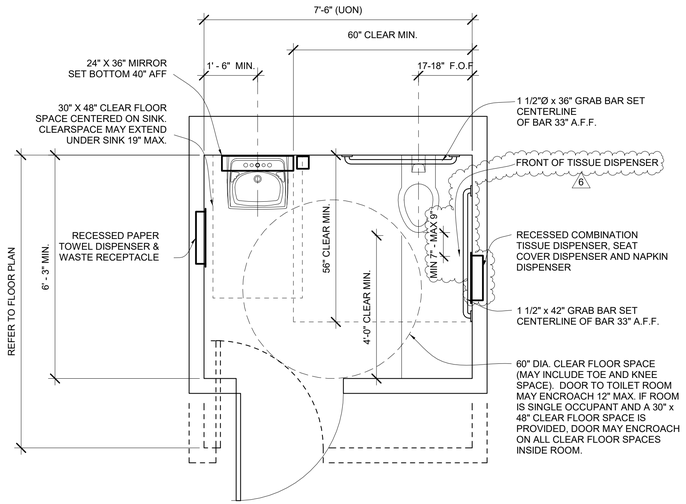
GENERAL NOTES:

1. THE GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND MEASUREMENTS IN THE FIELD PRIOR TO STARTING CONSTRUCTION.
2. REFER TO GENERAL NOTES ON SHEET A0-00 FOR INFORMATION NOT INDICATED ON THIS SHEET.

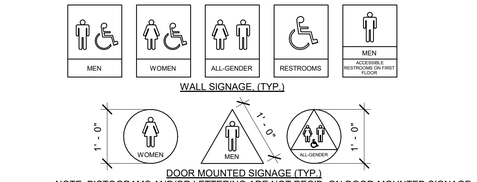
ACCESSORY SCHED.- TOILET

NOTE: MODEL NUMBERS REFERENCED REFER TO "BOBRICK WASHROOM EQUIPMENT CO."

TAG	MODEL NUMBER	DESCRIPTION
A	B-353	RECESSED SANITARY NAPKIN DISPENSER
B	B-38034	RECESSED PAPER TOWEL DISPENSER & WASTE REC. (600 C-FOLD)
C	B-166 2436	24"x36" ANGLE FRAME MIRROR W/ 5" SHELF
D	B-3574	RECESSED SEAT COVER DISP, NAPKIN DISP, TISSUE DISPENSER
E	B-3474	RECESSED SEAT COVER DISPENSER
F	B-6806X36	36" GRAB BAR W/ CONCEALED MOUNTING
G	B-3888	RECESSED MULTI-ROLL TOILET TISSURE DISPENSER
H	B-4369	RECESSED PAPER TOWEL DISPENSER & WASTE REC. (300 C-FOLD)
J	B-155	SURFACE MOUNTED SOAP DISPENSER (OFCI)
K	B-212	CLOTHES HOOK AND BUMPER
L	B-6806X42	42" GRAB BAR W/ CONCEALED MOUNTING.
M	B-359033	RECESSED PAPER TOWEL DISPENSER



23 ACCESSIBLE TOILET PLAN
1/2" = 1'-0"

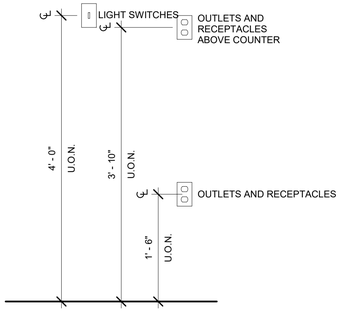


RAISED CHARACTERS
RAISED CHARACTERS SHALL BE 1/32" MIN. ABOVE THEIR BACKGROUND, UPPERCASE, SANS SERIF, NOT ITALIC OR HIGHLY DECORATIVE, AND HAVE FONT PROPORTIONS COMPLYING WITH CBC 11B-703.2. CHARACTER HEIGHT TO BE 5/8" MIN. AND 2" MAX.

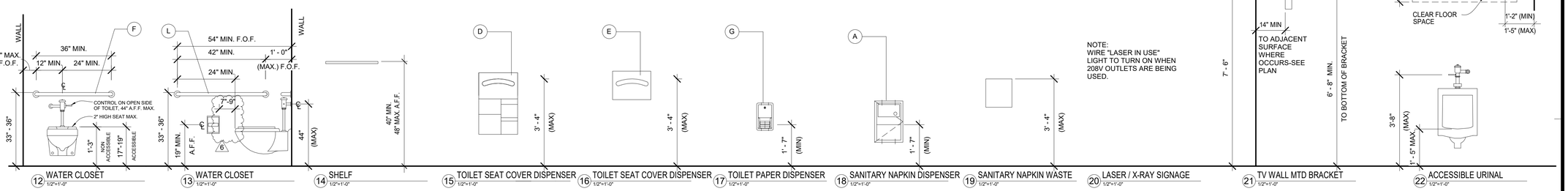
BRAILLE
CONTRACTED GRADE 2 BRAILLE SHALL BE USED WHERE BRAILLE SYMBOLS ARE REQ'D. DOTS SHALL BE SPACED IN COMPLIANCE WITH CBC 11B-703.3.

FINISH AND CONTRAST
CHARACTERS, PICTOGRAMS, AND THEIR BACKGROUND SHALL HAVE A NON-GLARE FINISH. CHARACTERS AND PICTOGRAMS SHALL CONTRAST WITH THEIR BACKGROUND WITH EITHER LIGHT CHARACTERS ON DARK BACKGROUND OR DARK CHARACTERS ON LIGHT BACKGROUND.

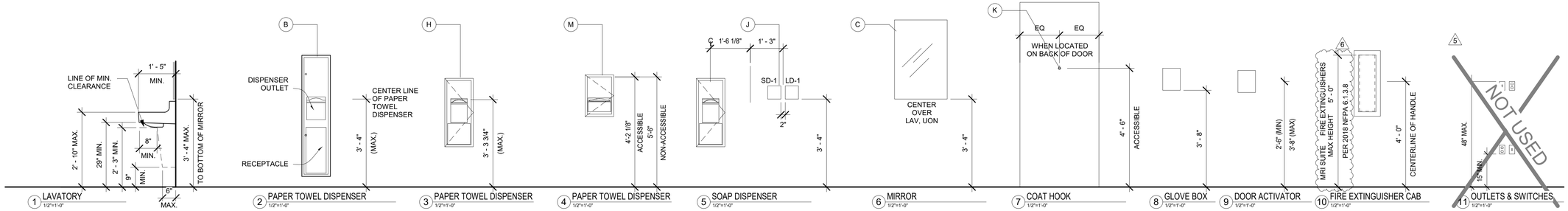
24 SANITARY FACILITIES SIGNAGE
1/2" = 1'-0"



25 OUTLETS AND SWITCHES MOUNTING HEIGHT
1" = 1'-0"



12 WATER CLOSET 1/2"=1'-0" | 13 WATER CLOSET 1/2"=1'-0" | 14 SHELF 1/2"=1'-0" | 15 TOILET SEAT COVER DISPENSER 1/2"=1'-0" | 16 TOILET SEAT COVER DISPENSER 1/2"=1'-0" | 17 TOILET PAPER DISPENSER 1/2"=1'-0" | 18 SANITARY NAPKIN DISPENSER 1/2"=1'-0" | 19 SANITARY NAPKIN WASTE 1/2"=1'-0" | 20 LASER / X-RAY SIGNAGE 1/2"=1'-0" | 21 TV WALL MTD BRACKET 1/2"=1'-0" | 22 ACCESSIBLE URINAL 1/2"=1'-0"



1 LAVATORY 1/2"=1'-0" | 2 PAPER TOWEL DISPENSER 1/2"=1'-0" | 3 PAPER TOWEL DISPENSER 1/2"=1'-0" | 4 PAPER TOWEL DISPENSER 1/2"=1'-0" | 5 SOAP DISPENSER 1/2"=1'-0" | 6 MIRROR 1/2"=1'-0" | 7 COAT HOOK 1/2"=1'-0" | 8 GLOVE BOX 1/2"=1'-0" | 9 DOOR ACTIVATOR 1/2"=1'-0" | 10 FIRE EXTINGUISHER CAB 1/2"=1'-0" | 11 OUTLETS & SWITCHES 1/2"=1'-0"

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TCMC MRI

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LICENSED ARCHITECT JOSEPH MICHAEL SFEIR No. C 28543 REN. 1-31-23 STATE OF CALIFORNIA

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REV: DESCRIPTION: DATE:

CONSULTANT

OSHPD APPROVAL STAMP:

OSHPD #: S200813-37-00-ACD0001

SHEET TITLE:

ADA COMPLIANCE DETAILS

PROJECT TITLE:

TCMC MRI

PROJECT #: 01907.01
DRAWN BY: Author
CHECKED BY: Checker
SCALE: PER TITLE
DATE: 3/11/2020

SHEET NUMBER: A1-03

100% - CONSTRUCTION DOCUMENTS

PHASING NOTES:

PHASE I:

-WORK WITHIN MRI SUITE.

-CLOSE CORRIDOR.

-TEACHING AND MAMOGRAPHY AREAS INACCESSIBLE DURING PHASE 1.

-WOMEN'S CENTER EXITING DIRECTLY TO EXTERIOR.

PHASE II:

-WORK AT EXTERIOR DOOR.

-WOMEN'S CENTER EXITING THROUGH MAIN ENTRANCE.

GENERAL NOTES:

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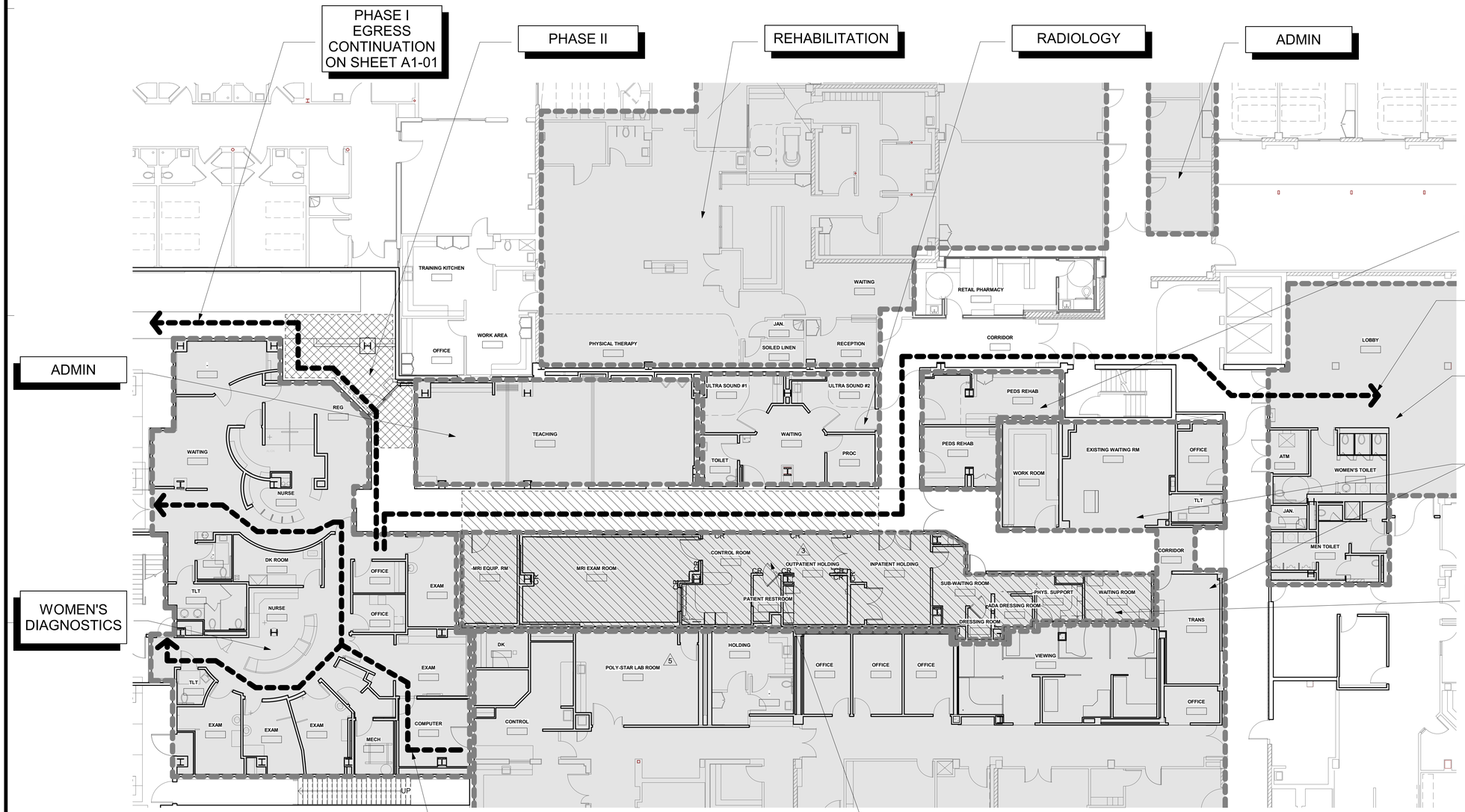
ACCESSIBLE PATH OF TRAVEL.

EGRESS PATH OF TRAVEL.



1 PHASING PLAN
1" = 10'-0"

S F E I R
A R C H I T E C T S

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TCMC MRI

Tri-City Medical Center

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OCEANSIDE CA, 92056

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LICENSED ARCHITECT
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REN. 1-31-23
STATE OF CALIFORNIA

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REV:	DESCRIPTION:	DATE:

CONSULTANT

OSHPD APPROVAL STAMP:

OSHPD #: S200813-37-00-ACD0001

SHEET TITLE:

PHASING PLAN

PROJECT TITLE:

TCMC MRI

PROJECT #: 01907.01
DRAWN BY: Author
CHECKED BY: Checker
SCALE: PER TITLE
DATE: 3/11/2020

SHEET NUMBER:

A1-04 1

100% - CONSTRUCTION DOCUMENTS

DEMOLITION KEYNOTES:

1. PROTECT IN PLACE THE EXISTING SIDEWALK TO THE DOOR ENTRY. 3
2. REMOVE ADA DOOR OPENER. SALVAGE TO BE REINSTALLED.
3. REMOVE EXISTING DOOR, DOOR FRAME, & DOOR HARDWARE.
4. DEMO CURB AND RAILING.
5. REMOVE A PORTION OF THE FRAMING AROUND THE STRUCTURAL COLUMN KEEP STRUCTURAL COLUMN IN PLACE.
6. REMOVE LIGHT BOLLARD. SALVAGE TO BE REINSTALLED.
7. REMOVE THE EXISTING VEGETATION.
8. REMOVE EXISTING HAND RAIL. SALVAGE TO BE REINSTALLED.
9. PROTECT IN PLACE THE EXISTING PALM TREES.
10. WIDTH OF THE MRI MACHINE DURING DELIVERY.
11. ETR. WALL PATH LIGHTING.
12. REMOVE THE EXISTING ADA AUTOMATIC BUTTON. SALVAGE TO BE REINSTALLED.
13. PROTECT IN PLACE EXISTING ARBOR AND VINE.
14. PROTECT IN PLACE EXISTING SHRUBS.
15. EDGE OF SIDEWALK.
16. ETR. BUILDING EXPANSION JOINT.
17. MRI DELIVERY PATHWAY. GC TO PROTECT EXISTING SIDE WALK WITH STEEL PLATE & REPAIR ANY DAMAGED PORTION OF SIDEWALKS, EXTERIOR WALLS, EXISTING LANDSCAPING & EXTERIOR LIGHTING.

GENERAL NOTES:

1. THE GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND MEASUREMENTS IN THE FIELD PRIOR TO STARTING CONSTRUCTION.
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- SP INDICATES AN EXISTING SMOKE PARTITION
- FP INDICATES AN EXISTING ONE HOUR FIRE RATED PARTITION TO REMAIN. ALL PENETRATIONS SHALL BE PROTECTED WITH A U.L LISTED FIRE STOP SYSTEM.
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- X WALL TYPE REFERENCE REFER TO SHEET A5-10.

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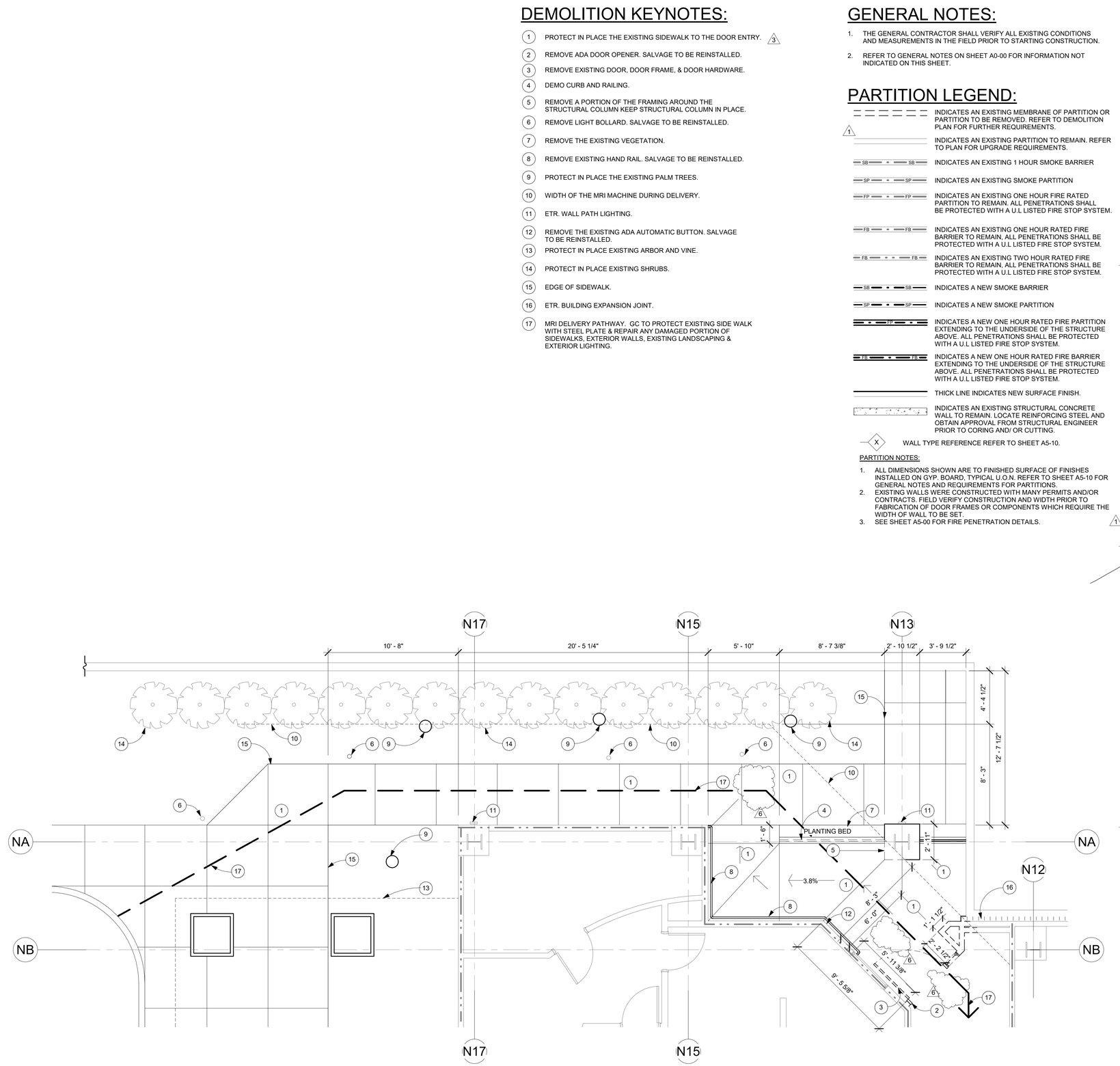
3. SEE SHEET A5-00 FOR FIRE PENETRATION DETAILS. 1



1 NORTH SIDE YARD & STAFF ENTRY DEMO
1/4" = 1'-0"

NORTH

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1	1	OSHPD COMMENTS	8/3/2020
2	2	DESIGN CHANGES	8/10/2020
3	3	OSHPD COMMENTS	10/2/2020
4	4	OSHPD COMMENTS	11/24/2020
5	5	DESIGN CHANGES	11/24/2020
6	6	ACD 0001 DESIGN CHANGES	4/10/2021
7	7	ACD 0001 DESIGN CHANGES	5/8/2021

REV: DESCRIPTION: DATE:

CONSULTANT

OSHPD APPROVAL STAMP:
OSHPD #: S200813-37-00-ACD0001

SHEET TITLE:
SIDE YARD & STAFF ENTRY DEMO PLAN

PROJECT TITLE:
TCMC MRI

PROJECT #: 01907.01
DRAWN BY: Author
CHECKED BY: Checker
SCALE: PER TITLE
DATE: 3/11/2020

SHEET NUMBER:
A1-10

100% - CONSTRUCTION DOCUMENTS

SIDE YARD KEYNOTES:

1. REINSTALL EXISTING HAND RAIL. PRIME AND PAINT.
2. NEW GAURD RAIL AND CURB. PRIME AND PAINT TO MATCH. EXISTING COLOR.
3. REINSTALL EXISTING BOLLARD PATH LIGHTS. PRIME AND PAINT.
4. PLANT NEW SHRUBS. AND ADD NEW IRRIGATION SYSTEM IF THE EXISTING IS DAMAGED. TIE INTO THE EXISTING SYSTEM.
5. REPAIR THE COLUMN TO MATCH EXISITNG, STUCCO, PRIME, & PAINT.
6. NEW THRESHOLD.
7. NOT USED. 6
8. ETR. SHRUB.
9. ETR. CONCRETE SIDEWALK.
10. ETR. PALM TREE.
11. ETR. BUILDING EXPANISON JOINT.
12. ETR. TILE OVER CONCRETE SIDEWALK. FIELD VERIFY LESS THAN 8.3% SLOPE AND 2% CROSS SLOPE.
13. ETR. ARBOR.
14. NOT USED. 6
15. REPAIR NON-FUNCTIONING BOLLARD TO OPERATE SIMILAR TO NEARBY BOLLARDS INCLUDING LIGHTING, CASING, ETC. 7

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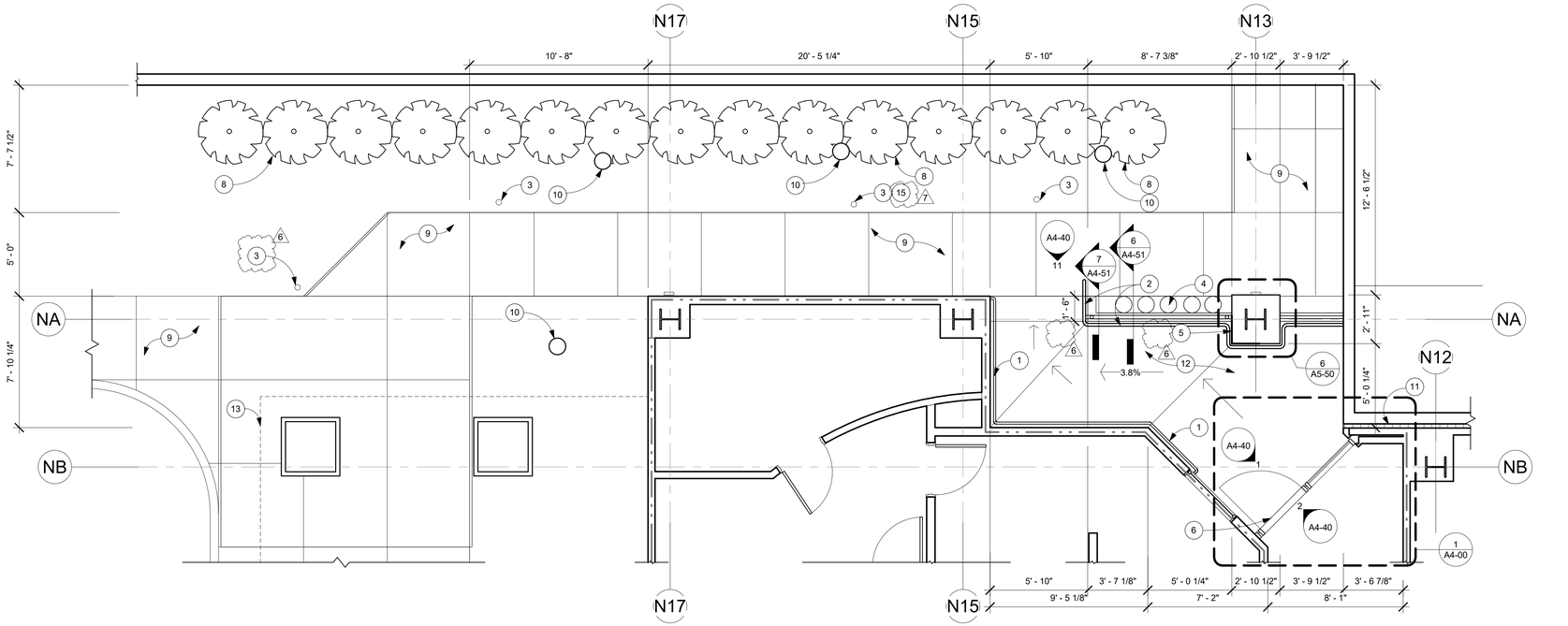

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100% - CONSTRUCTION DOCUMENTS

DEMOLITION KEYNOTES:

1. DEMOLISH WALL FOR A NEW DOOR. PER PLAN.
2. REMOVE EXISTING WALL.
3. REMOVE EXISTING DOOR, DOOR FRAME, & DOOR HARDWARE. SAVE DOOR OPERATOR FOR REINSTALLATION.
4. CORE DRILL IN THE METAL DECK/CONCETE DECK. REF. MECH & PLUMBING DWG & 7/S1-1
5. REMOVE THE GYPBOARD FURRING AROUND THE COLUMN PER PLAN. LEAVE STRUCTURAL COLUMNIN PLACE.
6. EXISTING ELECTRICAL OUTLETS & SWITCHES TO REMAIN.
7. REMOVE THE EXISTING CABINETRY PER PLAN.
8. REMOVE THE EXISTING WINDOW AND FRAME COMPLETLY.
9. REMOVE THE EXISTING CONCRETE SLAB HIGHLIGHTED IN LIGHT GRAY
10. PREPARE ROOF FOR A LEVELING PAD. SEE 1/A5-34 FOR EXTENT OF REMODEL.
11. PROVIDE PENTRATIONS FOR FUTURE USE. FILL WITH FIRE RATED ASSEMBLY.
12. REMOVE LOW PARTITION WALL.
13. ETR. GRADE BEAM. TOP OF BEAM 14" BELOW TOP OF CONCRETE. VERIFY.
14. ETR. BUILDING EXPANSION JOINT.
15. ETR. CABINETRY AND MILL WORK.
16. ETR. GROUND WIRE. PROTECT IN PLACE.
17. ETR. RECEPTION DESK.
18. ETR DOOR & DOOR FRAME. PRIME AND PAINT DOOR FRAME.
19. FIRE RESISTIVE CORRUGATED BOARD - Coroplast® Firewall FRB Class 94V-2 BELOW CEILING TO SEPARATE CONSTRUCTION AREA FROM ADJACENT AREA. TEMPORARY EXITING PROVISIONS SHALL MEET THE REQUIREMENTS OF OSHPD CAN 9-3301 AND CONSTRUCTION/INFECTION CONTROL BARRIER PLACEMENT SHALL BE COORDINATED WITH OSHPD FIELD FLSO AND HOSPITAL REPRESENTATIVE.
20. PROTECT OPENING DURING CONSTRUCTION AT ALL TIMES BY MAINTAINING 1 HOUR RATING OUTSIDE CONSTRUCTION HOURS.
21. REMOVE DRYWALL IN IT'S ENTIRITY THROUGHOUT CORRIDOR PARTITION.
22. INFECTION CONTROL ANTEROOM.
23. 1/2" CEMENTITIOUS BOARD ON BOTH SIDE OF LIGHT WEIGHT METAL STUD PARTITION AND 4'-0" DOOR AND LOCK.
24. ERECT AND TIGHTLY SEAL ON TOP OF PARTITION AND TO UNDERSIDE OF DECK WITH FIRE RESISTIVE VISQUEEN. TAPE ALL EDGES TO STOP AIR LEAKAGE.
25. PROVIDE TWO ZIPPER CURTAINS OF FIRE RESISTANT VISQUEEN. TEMPORARY EXITING PROVISIONS SHALL MEET THE REQUIREMENTS OF OSHPD CAN 9-3301 AND THAT CONSTRUCTION/INFECTION CONTROL BARRIER PLACEMENT SHALL BE COORDINATED WITH OSHPD FIELD FLSO.
26. TEMPORARY 6'HIGH CHAINLINK FENCE WITH 4'-0" GATE WITH LOCK.
27. 1-HOUR RATED TEMPORARY GYPSUM WALL BOARD AND METAL STUD PARTITION AND DOOR. TEMPORARY EXITING PROVISION SHALL MEET THE REQUIREMENTS OF OSHPD CAN 9-3301. CONSTRUCTION/INFECTION CONTROL BARRIER PLACEMENT SHALL BE COORDINATED WITH OSHPD FIELD FLSO.
28. EXISTING ELECTRICAL PANELS TO REMAIN.
29. REMOVE EXISTING DRYWALL UP TO 10'-0" MAX PER STRUCTURAL DETAIL 5/S3-1.
30. DEMOLISH BENCH SEAT.
31. IN CONSTRUCTION AREA BELOW ROOF ANCHORAGE PROTECT ALL EQUIPMENT WITH DUST COVERS, REPLACE REMOVED VEILING TILES, REPLACE DAMAGED CEILING GRID. SEPARATE AREA OF CONSTRUCTION WITH INFECTION CONTROL.
32. REMOVE WALL PAPER AND BASE IN ITS ENTIRETY. SALVAGE BUMPER RAILS TO BE REINSTALLED.
33. EXISTING EXPANSION JOINT TO REMAIN. REMOVE EXPANSION JOINT COVER.

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DEMOLITION GENERAL NOTES:

A. GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND MEASUREMENTS IN THE FIELD PRIOR TO START OF CONSTRUCTION.

B. GENERAL CONTRACTOR SHALL COORDINATE PHASING, ACCESS, DEBRIS REMOVAL, STAGING AREAS, AND HOURS OF CONSTRUCTION WITH OWNER PRIOR TO START OF CONSTRUCTION.

C. UNLESS OTHERWISE NOTED, CONTRACTOR SHALL COORDINATE WITH THE OWNER THE REMOVAL OF EXISTING EQUIPMENT INDICATED ON DRAWINGS.

D. GENERAL CONTRACTOR SHALL COORDINATE WITH STRUCTURAL, MEP, FIRE ALARM, FIRE PROTECTION, NURSE CALL, INTERIORS, AND EQUIPMENT DRAWINGS PRIOR TO STARTING CONSTRUCTION. THE PROJECT MANUAL AND ALL DRAWINGS IN THE CONSTRUCTION DRAWINGS SHALL BE PART OF THE CONSTRUCTION DOCUMENTS.

E. DASHED LINES INDICATE ITEMS TO BE DEMOLISHED OR REMOVED. REFER TO RELATED PLANS, INCLUDING THE FLOOR PLANS, EQUIPMENT PLAN, CEILING PLANS, AND ROOM FINISH SCHEDULE ALONG WITH MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION FOR PORTIONS OF EXISTING CONSTRUCTION SCHEDULED TO REMAIN.

F. REFER TO PROPOSED PLANS AND INTERIOR ELEVATIONS FOR LOCATION OF NEW WALL CONNECTIONS, OPENINGS, RECESSED ITEMS, BACKING PLATES, ETC. AT EXISTING WALLS. REMOVE GYPSUM BOARD WHERE NEEDED TO ACCOMMODATE THE ABOVE WORK.

G. GENERAL CONTRACTOR SHALL X-RAY AND/OR ULTRASOUND THE EXISTING CONCRETE FLOORS AND FLOOR ABOVE FOR ANY POSSIBLE EMBEDDED CONDUITS, STRUCTURAL REBAR, OR UNFORESEEN CONDITIONS OUTSIDE THE SCOPE OF WORK THAT MIGHT IMPEDE THE ANCHORING OF EQUIPMENT OR CONFLICT WITH TRENCHING PRIOR TO CONSTRUCTION.

H. TYPICALLY CAP AND CLOSE ALL ABANDONED OPENINGS AT EXISTING SLAB. FILL AND PATCH TO LEVEL FLOOR PER DETAILS ON STRUCTURAL SHEETS. NOTIFY ARCHITECT OF UNCOVERED EXISTING CONDITIONS.

I. GENERAL CONTRACTOR SHALL INSTALL A TEMPORARY DUST/INFECTION CONTROL BARRIER BETWEEN WORK AREA AND ALL ADJACENT ROOMS AND CORRIDORS. INSTALL TEMPORARY CURTAIN OF FIRE-RETARDANT VISQUEEN IN THE PLENUM BETWEEN TOP OF STUD PARTITION AND UNDERSIDE OF DECK ABOVE. SEAL ALL OPENINGS INCL. DOORS, AIR SUPPLIES, RETURNS, AND EXHAUST GRILLES. GENERAL CONTRACTOR SHALL PROVIDE A TEMPORARY HEPA FILTRATION SYSTEM WITH NEGATIVE PRESSURE FOR EACH AREA OF THE REMODEL. EXHAUST FILTERED AIR FROM ROOMS UNDER CONSTRUCTION THROUGH BUILDING AIR RETURN SYSTEM. GENERAL CONTRACTOR TO COORDINATE BARRIER TYPE, ACCESS, AND FILTRATION SYSTEM WITH OWNER.

J. TEMPORARY CONSTRUCTION BARRIERS ARE REQUIRED TO BE INSTALLED DURING CONSTRUCTION OR RECONSTRUCTION OF FIRE-RESISTIVE ASSEMBLIES AND SHALL MEET THE SAME FIRE RATING AS THE SPECIFIC PERMANENT PARTITION. TEMPORARY INSTALLATIONS SHALL MAINTAIN ADEQUATE EGRESS IN COMPLIANCE WITH THE CBC AND SHALL NOT OBSTRUCT EXISTING EXITS, CREATE A FIRE HAZARD, OR REDUCE REQUIRED FIRE RESISTANCE.

K. CONTRACTOR STAGING TO BE IN THE ROOMS UNDER REMODEL.

L. CONTRACTOR PARKING TO BE IN CONTRACTOR DESIGNATED PARKING AREA.

M. THE CONTRACTOR SHALL ENSURE THAT THE AREA UNDER REMODEL IS LOCKED AND OTHERWISE SECURED AFTER HOURS.

N. DRILLING, RAM-SETTING AND SAW CUTTING TO BE DONE DURING NORMAL HOURS TO BE COORDINATED WITH THE FACILITY.

O. GENERAL CONTRACTOR SHALL PRESERVE AND PROTECT THE PORTIONS OF THE EXISTING OVERHEAD PAGING, TELEPHONE, DATA, ELECTRICAL LINES, ETC. DURING THE COURSE OF CONSTRUCTION. MANY OF THESE SYSTEMS ARE SCHEDULED FOR REUSE BY THE OWNER UNDER THIS OR SEPARATE CONTRACTS.

P. PATCH NEW WORK TO MATCH AND ALIGN WITH EXISTING. COMPLETELY REMOVE EXISTING FINISHES WHERE NEW FINISHES ARE SCHEDULED.

Q. CONTRACTOR SHALL PRESERVE AND PROTECT THE EXISTING AREA, EQUIPMENT, CABINETRY, ETC. ADJACENT TO THE AREA OF WORK.

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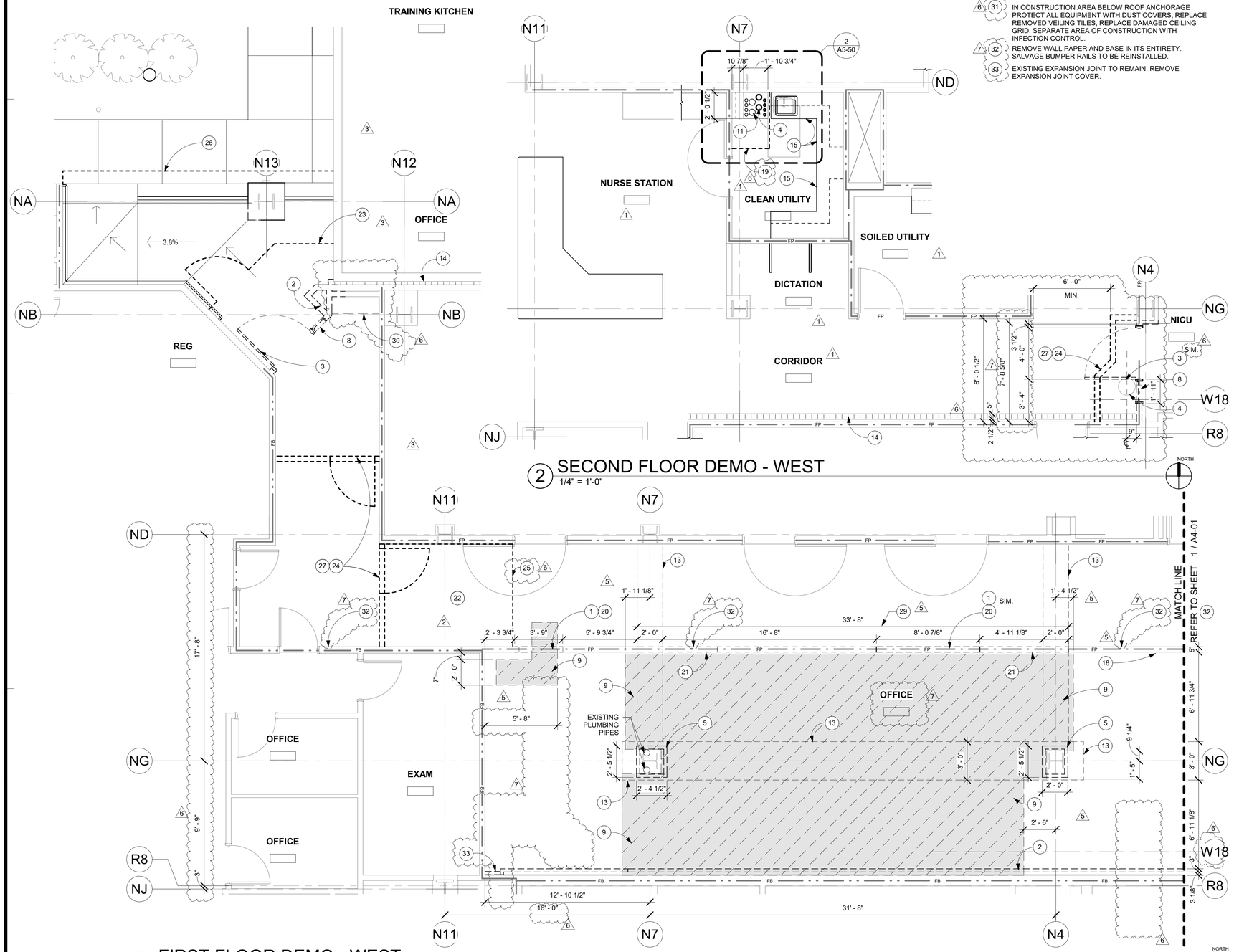

2 SECOND FLOOR DEMO - WEST
1/4" = 1'-0"

1 FIRST FLOOR DEMO - WEST
1/4" = 1'-0"

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A4-00

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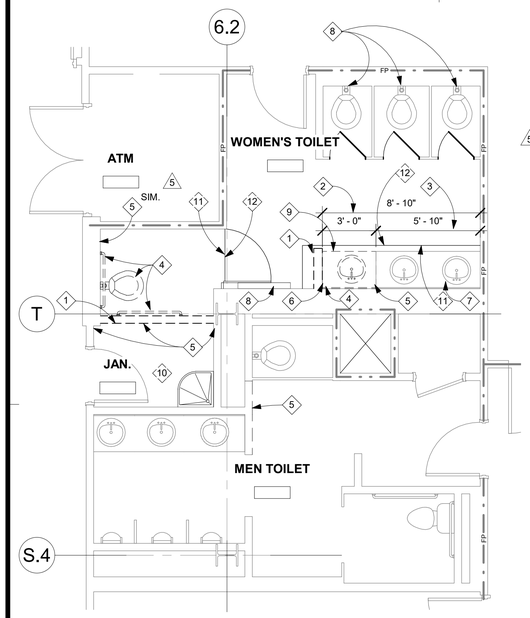

2 FIRST FLOOR DEMO - RESTROOM
1/4" = 1'-0"

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2. REMOVE EXISTING WALL.
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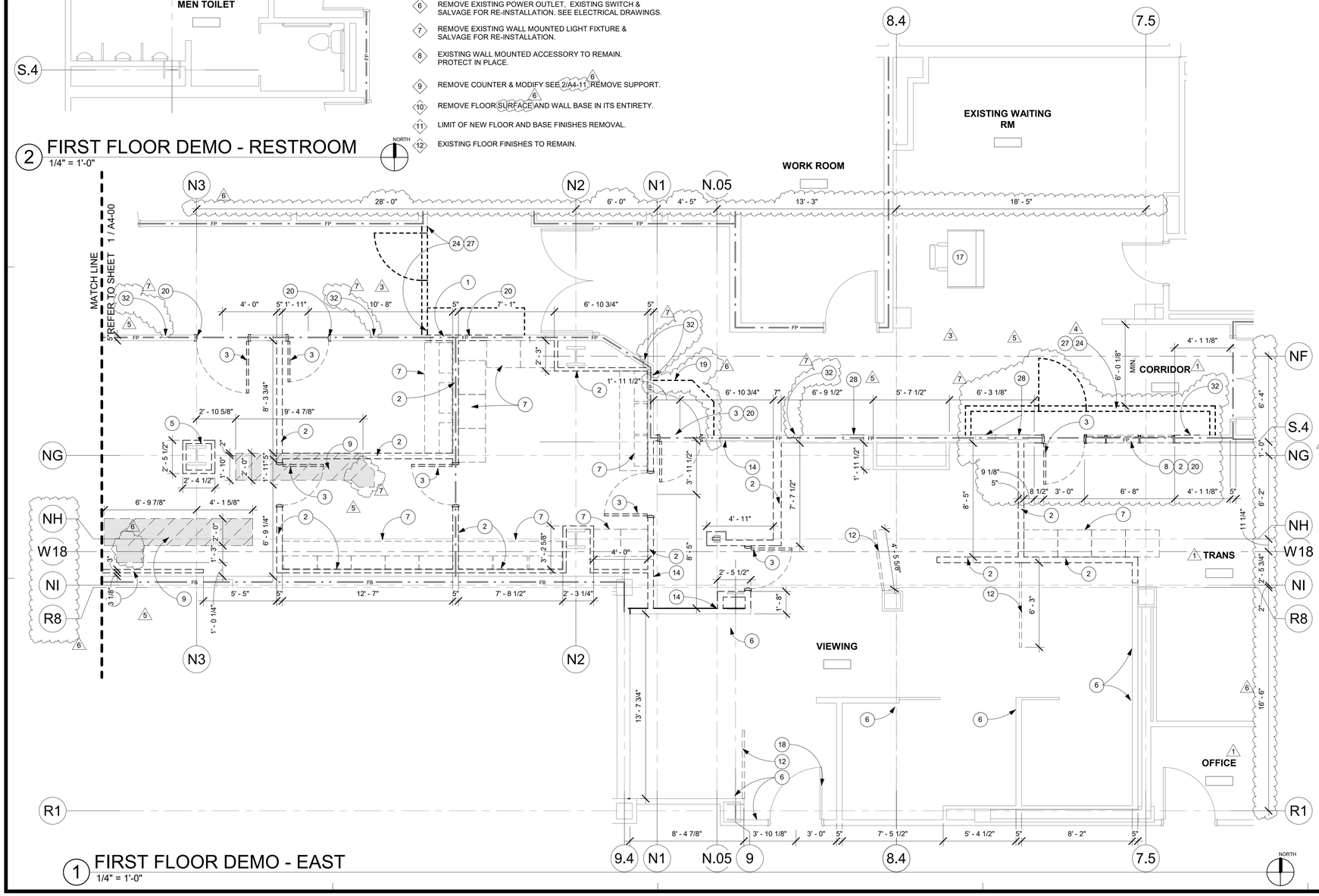
6. EXISTING ELECTRICAL OUTLETS & SWITCHES TO REMAIN.
7. REMOVE THE EXISTING CABINETRY PER PLAN.
8. REMOVE THE EXISTING WINDOW AND FRAME COMPLETELY.
9. REMOVE THE EXISTING CONCRETE SLAB HIGHLIGHTED IN LIGHT GRAY
10. PREPARE ROOF FOR A LEVELING PAD. SEE 1/A5-34 FOR EXTENT OF REMODEL.
11. PROVIDE PENTRATIONS FOR FUTURE USE. FILL WITH FIRE RATED ASSEMBLY.
12. REMOVE LOW PARTITION WALL.
13. ETR. GRADE BEAM. TOP OF BEAM 14" BELOW TOP OF CONCRETE. VERIFY.
14. ETR. BUILDING EXPANSION JOINT.
15. ETR. CABINETRY AND MILL WORK.
16. ETR. GROUND WIRE. PROTECT IN PLACE.
17. ETR. RECEPTION DESK.
18. ETR DOOR & DOOR FRAME. PRIME AND PAINT DOOR FRAME.
19. FIRE RESISTIVE CORRUGATED BOARD - Coroplast® Firewall FRB Class 94V-2 BELOW CEILING TO SEPARATE CONSTRUCTION AREA FROM ADJACENT AREA. TEMPORARY EXITING PROVISIONS SHALL MEET THE REQUIREMENTS OF OSHPD CAN 9-3301 AND CONSTRUCTION/INFECTION CONTROL BARRIER PLACEMENT SHALL BE COORDINATED WITH OSHPD FIELD FLSO AND HOSPITAL REPRESENTATIVE.
20. PROTECT OPENING DURING CONSTRUCTION AT ALL TIMES BY MAINTAINING 1 HOUR RATING OUTSIDE CONSTRUCTION HOURS.
21. REMOVE DRYWALL IN IT'S ENTIRITY THROUGHOUT CORRIDOR PARTITION.
22. INFECTION CONTROL ANTEROOM.
23. 1/2" CEMENTITIOUS BOARD ON BOTH SIDE OF LIGHT WEIGHT METAL STUD PARTITION AND 4'-0" DOOR AND LOCK.
24. ERECT AND TIGHTLY SEAL ON TOP OF PARTITION AND TO UNDERSIDE OF DECK WITH FIRE RESISTIVE VISQUEEN. TAPE ALL EDGES TO STOP AIR LEAKAGE.
25. PROVIDE TWO ZIPPER CURTAINS OF FIRE RESISTANT VISQUEEN. TEMPORARY EXITING PROVISIONS SHALL MEET THE REQUIREMENTS OF OSHPD CAN 9-3301 AND THAT CONSTRUCTION/INFECTION CONTROL BARRIER PLACEMENT SHALL BE COORDINATED WITH OSHPD FIELD FLSO.
26. TEMPORARY 6'HIGH CHAINLINK FENCE WITH 4'-0" GATE WITH LOCK.
27. 1-HOUR RATED TEMPORARY GYPSUM WALL BOARD AND METAL STUD PARTITION AND DOOR. TEMPORARY EXITING PROVISION SHALL MEET THE REQUIREMENTS OF OSHPD CAN 9-3301. CONSTRUCTION/INFECTION CONTROL BARRIER PLACEMENT SHALL BE COORDINATED WITH OSHPD FIELD FLSO.
28. EXISTING ELECTRICAL PANELS TO REMAIN.
29. REMOVE EXISTING DRYWALL UP TO 10'-0" MAX PER STRUCTURAL DETAIL 5/S3-1.
30. DEMOLISH BENCH SEAT.
31. IN CONSTRUCTION AREA BELOW ROOF ANCHORAGE PROTECT ALL EQUIPMENT WITH DUST COVERS, REPLACE REMOVED VEILING TILES, REPLACE DAMAGED CEILING GRID. SEPARATE AREA OF CONSTRUCTION WITH INFECTION CONTROL.
32. REMOVE WALL PAPER AND BASE IN ITS ENTIRETY. SALVAGE BUMPER RAILS TO BE REINSTALLED.
33. EXISTING EXPANSION JOINT TO REMAIN. REMOVE EXPANSION JOINT COVER.

RESTROOM DEMOLITION KEYNOTES:

1. REMOVE EXISTING PARTITION IN ITS ENTIRETY & SALVAGE WALL-MOUNTED ACCESSORIES IN THE JANITOR CLOSET.
2. REMOVE EXISTING COUNTER, SINKS & ACCESSORIES IN THEIR ENTIRETY & SALVAGE.
3. SEE 2/A4-11 FOR REINSTALLED PORTION OF COUNTER.
4. REMOVE EXISTING PLUMBING FIXTURES AND ACCESSORIES SAVE PLUMBING FIXTURE FOR RELOCATION. REMOVE GWB TO ADD REINFORCEMENT.
5. REMOVE EXISTING GWB & WALL TILE FROM EXISTING WALL.
6. REMOVE EXISTING POWER OUTLET, EXISTING SWITCH & SALVAGE FOR RE-INSTALLATION. SEE ELECTRICAL DRAWINGS.
7. REMOVE EXISTING WALL MOUNTED LIGHT FIXTURE & SALVAGE FOR RE-INSTALLATION.
8. EXISTING WALL MOUNTED ACCESSORY TO REMAIN. PROTECT IN PLACE.
9. REMOVE COUNTER & MODIFY SEE 2/A4-11. REMOVE SUPPORT.
10. REMOVE FLOOR SURFACE AND WALL BASE IN ITS ENTIRETY.
11. LIMIT OF NEW FLOOR AND BASE FINISHES REMOVAL.
12. EXISTING FLOOR FINISHES TO REMAIN.



1 FIRST FLOOR DEMO - EAST
1/4" = 1'-0"

GENERAL NOTES:

1. THE GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND MEASUREMENTS IN THE FIELD PRIOR TO STARTING CONSTRUCTION.
2. REFER TO GENERAL NOTES ON SHEET A0-00 FOR INFORMATION NOT INDICATED ON THIS SHEET.

DEMOLITION GENERAL NOTES:

A. GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND MEASUREMENTS IN THE FIELD PRIOR TO START OF CONSTRUCTION.

B. GENERAL CONTRACTOR SHALL COORDINATE PHASING, ACCESS, DEBRIS REMOVAL, STAGING AREAS, AND HOURS OF CONSTRUCTION WITH OWNER PRIOR TO START OF CONSTRUCTION.

C. UNLESS OTHERWISE NOTED, CONTRACTOR SHALL COORDINATE WITH THE OWNER THE REMOVAL OF EXISTING EQUIPMENT INDICATED ON DRAWINGS.

D. GENERAL CONTRACTOR SHALL COORDINATE WITH STRUCTURAL, MEP, FIRE ALARM, FIRE PROTECTION, NURSE CALL, INTERIORS, AND EQUIPMENT DRAWINGS PRIOR TO STARTING CONSTRUCTION. THE PROJECT MANUAL AND ALL DRAWINGS IN THE CONSTRUCTION DRAWINGS SHALL BE PART OF THE CONSTRUCTION DOCUMENTS.

E. DASHED LINES INDICATE ITEMS TO BE DEMOLISHED OR REMOVED. REFER TO RELATED PLANS, INCLUDING THE FLOOR PLANS, EQUIPMENT PLAN, CEILING PLANS, AND ROOM FINISH SCHEDULE ALONG WITH MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION FOR PORTIONS OF EXISTING CONSTRUCTION SCHEDULED TO REMAIN.

F. REFER TO PROPOSED PLANS AND INTERIOR ELEVATIONS FOR LOCATION OF NEW WALL CONNECTIONS, OPENINGS, RECESSED ITEMS, BACKING PLATES, ETC. AT EXISTING WALLS. REMOVE GYPSUM BOARD WHERE NEEDED TO ACCOMMODATE THE ABOVE WORK.

G. GENERAL CONTRACTOR SHALL X-RAY AND/OR ULTRASOUND THE EXISTING CONCRETE FLOORS AND FLOOR ABOVE FOR ANY POSSIBLE EMBEDDED CONDUITS, STRUCTURAL REBAR, OR UNFORESEEN CONDITIONS OUTSIDE THE SCOPE OF WORK THAT MIGHT IMPEDE THE ANCHORING OF EQUIPMENT OR CONFLICT WITH TRENCHING PRIOR TO CONSTRUCTION.

H. TYPICALLY CAP AND CLOSE ALL ABANDONED OPENINGS AT EXISTING SLAB. FILL AND PATCH TO LEVEL FLOOR PER DETAILS ON STRUCTURAL SHEETS. NOTIFY ARCHITECT OF UNCOVERED EXISTING CONDITIONS.

I. GENERAL CONTRACTOR SHALL INSTALL A TEMPORARY DUST/INFECTION CONTROL BARRIER BETWEEN WORK AREA AND ALL ADJACENT ROOMS AND CORRIDORS. INSTALL TEMPORARY CURTAIN OF FIRE-RETARDANT VISQUEEN IN THE PLENUM BETWEEN TOP OF STUD PARTITION AND UNDERSIDE OF DECK ABOVE. SEAL ALL OPENINGS INCL. DOORS, AIR SUPPLIES, RETURNS, AND EXHAUST GRILLES. GENERAL CONTRACTOR SHALL PROVIDE A TEMPORARY HEPA FILTRATION SYSTEM WITH NEGATIVE PRESSURE FOR EACH AREA OF THE REMODEL. EXHAUST FILTERED AIR FROM ROOMS UNDER CONSTRUCTION THROUGH BUILDING AIR RETURN SYSTEM. GENERAL CONTRACTOR TO COORDINATE BARRIER TYPE, ACCESS, AND FILTRATION SYSTEM WITH OWNER.

J. TEMPORARY CONSTRUCTION BARRIERS ARE REQUIRED TO BE INSTALLED DURING CONSTRUCTION OR RECONSTRUCTION OF FIRE-RESISTIVE ASSEMBLIES AND SHALL MEET THE SAME FIRE RATING AS THE SPECIFIC PERMANENT PARTITION. TEMPORARY INSTALLATIONS SHALL MAINTAIN ADEQUATE EGRESS IN COMPLIANCE WITH THE CBC AND SHALL NOT OBSTRUCT EXISTING EXITS, CREATE A FIRE HAZARD, OR REDUCE REQUIRED FIRE RESISTANCE.

K. CONTRACTOR STAGING TO BE IN THE ROOMS UNDER REMODEL.

L. CONTRACTOR PARKING TO BE IN CONTRACTOR DESIGNATED PARKING AREA.

M. THE CONTRACTOR SHALL ENSURE THAT THE AREA UNDER REMODEL IS LOCKED AND OTHERWISE SECURED AFTER HOURS.

N. DRILLING, RAM-SETTING AND SAW CUTTING TO BE DONE DURING NORMAL HOURS TO BE COORDINATED WITH THE FACILITY. 7

O. GENERAL CONTRACTOR SHALL PRESERVE AND PROTECT THE PORTIONS OF THE EXISTING OVERHEAD PAGING, TELEPHONE, DATA, ELECTRICAL LINES, ETC. DURING THE COURSE OF CONSTRUCTION. MANY OF THESE SYSTEMS ARE SCHEDULED FOR REUSE BY THE OWNER UNDER THIS OR SEPARATE CONTRACTS.

P. PATCH NEW WORK TO MATCH AND ALIGN WITH EXISTING. COMPLETELY REMOVE EXISTING FINISHES WHERE NEW FINISHES ARE SCHEDULED.

Q. CONTRACTOR SHALL PRESERVE AND PROTECT THE EXISTING AREA, IE AREA OF WORK.

PARTITION LEGEND:

- INDICATES AN EXISTING MEMBRANE OF PARTITION OR PARTITION TO BE REMOVED. REFER TO DEMOLITION PLAN FOR FURTHER REQUIREMENTS.
- INDICATES AN EXISTING PARTITION TO REMAIN. REFER TO PLAN FOR UPGRADE REQUIREMENTS.
- SB — SB — INDICATES AN EXISTING 1 HOUR SMOKE BARRIER
- SP — SP — INDICATES AN EXISTING SMOKE PARTITION
- FP — FP — INDICATES AN EXISTING ONE HOUR FIRE RATED PARTITION TO REMAIN. ALL PENETRATIONS SHALL BE PROTECTED WITH A U.L LISTED FIRE STOP SYSTEM.
- FB — FB — INDICATES AN EXISTING ONE HOUR RATED FIRE BARRIER TO REMAIN, ALL PENETRATIONS SHALL BE PROTECTED WITH A U.L LISTED FIRE STOP SYSTEM.
- FB — FB — INDICATES AN EXISTING TWO HOUR RATED FIRE BARRIER TO REMAIN, ALL PENETRATIONS SHALL BE PROTECTED WITH A U.L LISTED FIRE STOP SYSTEM.
- SB — SB — INDICATES A NEW SMOKE BARRIER
- SP — SP — INDICATES A NEW SMOKE PARTITION
- FP — FP — INDICATES A NEW ONE HOUR RATED FIRE PARTITION EXTENDING TO THE UNDERSIDE OF THE STRUCTURE ABOVE. ALL PENETRATIONS SHALL BE PROTECTED WITH A U.L LISTED FIRE STOP SYSTEM.
- FB — FB — INDICATES A NEW ONE HOUR RATED FIRE BARRIER EXTENDING TO THE UNDERSIDE OF THE STRUCTURE ABOVE. ALL PENETRATIONS SHALL BE PROTECTED WITH A U.L LISTED FIRE STOP SYSTEM.
- THICK LINE INDICATES NEW SURFACE FINISH.
- INDICATES AN EXISTING STRUCTURAL CONCRETE WALL TO REMAIN. LOCATE REINFORCING STEEL AND OBTAIN APPROVAL FROM STRUCTURAL ENGINEER PRIOR TO CORING AND/ OR CUTTING.
- X — WALL TYPE REFERENCE REFER TO SHEET A5-10.

PARTITION NOTES:

1. ALL DIMENSIONS SHOWN ARE TO FINISHED SURFACE OF FINISHES INSTALLED ON GYP. BOARD, TYPICAL U.O.N. REFER TO SHEET A5-10 FOR GENERAL NOTES AND REQUIREMENTS FOR PARTITIONS.
2. EXISTING WALLS WERE CONSTRUCTED WITH MANY PERMITS AND/OR CONTRACTS. FIELD VERIFY CONSTRUCTION AND WIDTH PRIOR TO FABRICATION OF DOOR FRAMES OR COMPONENTS WHICH REQUIRE THE WIDTH OF WALL TO BE SET.
3. SEE SHEET A5-00 FOR FIRE PENETRATION DETAILS.

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ARCHITECT: SFEIR ARCHITECTS, 5151 SHOREHAM PL SUITE 265, SAN DIEGO, CALIFORNIA 92122, TEL(619)299-3917

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MECHANICAL &PLUMBING: SC ENGINEERS, INC., 17075 VIA DEL CAMPO, SAN DIEGO, CALIFORNIA 92127, TEL(858)946-0333

ELECTRICAL: AG DESIGN, INC., 171 S. ANITA DR. SUITE 111, ORANGE, CALIFRONIA 92868, TEL(714)769-9900 EXT. 201

SHIELDING: MRI SHIELDING CORPORATION, 3554 BUISNESS PARK DR., SUITE B, COSTA MESA, CA 92626, TEL(714)545-7700

INTERIORS: ISLEY DESIGN & PLANNING, 1982 PALSERO AVENUE, ESCONDIDO, CA 92029, TEL(760)484-0455

LICENSED ARCHITECT — JOSEPH MICHAEL SFEIR — No. C 28543 — REN. 1-31-22 — STATE OF CALIFORNIA

1	1	OSHPD COMMENTS	8/3/2020
2	2	DESIGN CHANGES	8/10/2020
3	3	OSHPD COMMENTS	10/2/2020
4	4	OSHPD COMMENTS	11/24/2020
5	5	DESIGN CHANGES	11/24/2020
6	6	ACD 0001 DESIGN CHANGES	4/10/2021
7	7	ACD 0001 DESIGN CHANGES	5/8/2021

REV: DESCRIPTION: DATE:

CONSULTANT

OSHPD APPROVAL STAMP:

OSHPD #: S200813-37-00-ACD0001

SHEET TITLE:

1/4" PARTIAL DEMO PLAN

PROJECT TITLE:

TCMC MRI

PROJECT #: 01907.01
DRAWN BY: Author
CHECKED BY: Checker
SCALE: PER TITLE
DATE: 3/11/2020

SHEET NUMBER:

A4-01

100% - CONSTRUCTION DOCUMENTS

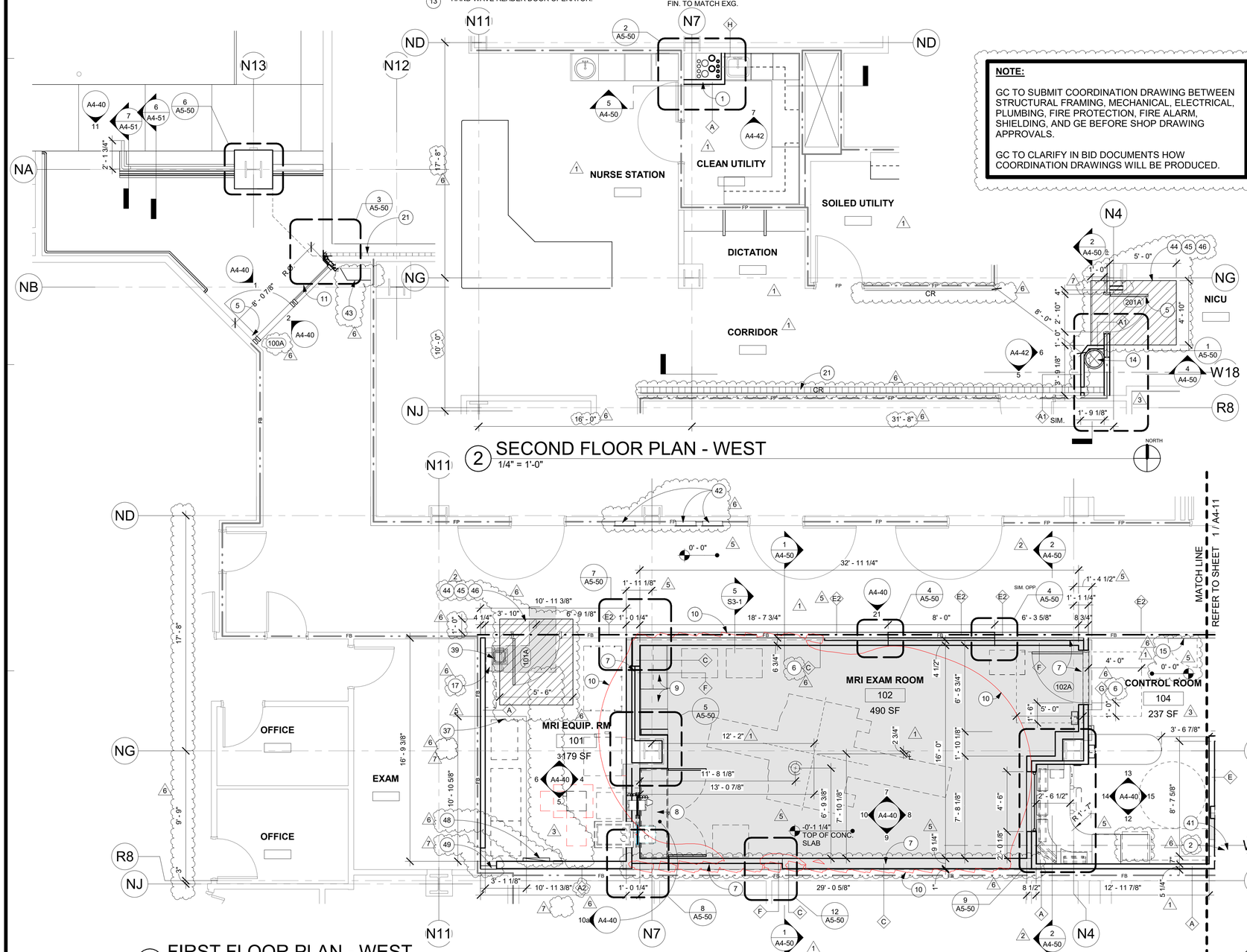
FLOOR PLAN KEYNOTES:

1. INSTALL NEW WALL PER PLAN. SEE DETAILS ON SHEET A5-10.
2. INSTALL NEW PLUMBING FIXTURES. REF PLUMBING DWG.
3. INFILL CORRIDOR WALL WITH 1 HOUR WALL PRIME FINISHES.
4. PATCH PAINT PRIME AND STUCCO COLUMN TO MATCH.
5. INSTALL A NEW DOOR. SEE DOOR SCHEDULE A6-00.
6. INSTALL NEW RF SHIELDING WALL.
7. BORDER OF NEW SHIELDED FLOOR.
8. PASS THROUGH CABINET. w/ LOUVERED DOORS.
9. CUSTOM MILL WORK. WOOD CABINETS w/ PLASTIC LAMINATE.
10. LIMITS OF THE 5 GAUSS MAGNET INFLUENCE.
11. INSTALL REMOVABLE STOREFRONT w/ DOOR AND WINDOW. ROOF 8'-0"
12. NEW ACCESSIBLE SINK.
13. HAND WAVE READER DOOR OPERATOR.
14. MRI QUENCH VENT AND INSULATION. REF TO MECH DRAWINGS AND EJ A/A5-00. 3
15. 24" x 18" 1 HOUR RATED ACCESS PANEL. 5
16. MRI EQUIPMENT STORAGE INCLUDING BREAST TREATMENT, VACUUM, & AIR MATTRESS PUMP.
17. HUMIDIFIER. SEE PLUMBING & MECH. & ELECT. DWGS. 6
18. MRI LINEN STORAGE.
19. OUTPATIENT TEMPORARY WHEELCHAIR STORAGE.
20. NEW SYSTEM FURNITURE. ADJUSTABLE HEIGHT DESK.
21. ETR. BUILDING EXPANSION JOINT.
22. ETR. RECEPTION DESK.
23. NEW SYSTEM FURNITURE BY OTHERS. GC TO COORDINATE SYSTEM INSTALLATION WITH OWNER. WALLS @ 6'-0" HIGH. 6
24. EXISTING DESK.
25. METAL DETECTOR.
26. NEW PLUMBING FIXTURES & ACCESSORIES. MODIFY EXG PIPINGING THE WALL FOR NEW LOCATION OF EXISTING FIXTURE. PATCH FLR TO FIN. TO MATCH EXG.
27. EXG SALVAGED, MODIFIED COUNTER, SINKS, & ACCESSORIES. 6
28. PROVIDE SISTER STUDS PER DETAIL 6/S1-2. NEW LAYER OF WATER RESISTANT GWB. PAINTED & WALL TILE TO MATCH EXG. SEE SHEET 1,2,3/A4-42 5
29. INSTALL SISTER STUDS AND BACKING PER STRUCTURAL DRAWING 6,10/S1-2. PRIME AND PAINT TO MATCH EXG. 6
30. WELD PAINTED STEEL @ EDGE OF COUNTER. SEE DETAIL 6/A5-80. 6
31. RELOCATE EXG TOILET AND ACCESSORIES . PROVIDE BACKING PER 10/S1-2 6 DWG. SEE PLUMBING DWG. SEAL HOLES WITH GROUT. 5
32. NEW PATIENT STORAGE LOCKER.
33. STAFF LOCKABLE STORAGE LOCKERS & SHERIFF LOCKED LOCKER. 1
34. CRASH CART.
35. PAN FLUSHING DEVICE. REF PLUMBING DWG. 6
36. NON FERROUS GURNEY / BED. BY OWNER (TYP.)
37. CONCRETE PADS TO BE PAINTED. SCRIBE SHEET VINYL TO EDGE. 5
38. CARD READER DOOR OPERATOR.
39. NEW FLOOR SINK. SEE 1/P3-01.
40. CONCRETE INFILL PER DETAIL 10/S1-1. 3 2 2
41. KNEE WALL UNDER COUNTER TO ENCLOSE SINK WASTE LINE. PER 10/A5-80. 5
42. ETR. ELECTRICAL PANEL.
43. FINISH TO MATCH ADJACENT EXISTING.
44. BUILD UP FLR. DEPRESSIONS W/ CEMTITIOUS LEVELING ARDEX COMPOUND TO ENSURE MAX. OF 3/8" BTWN BOT. OF DOOR & FIN. FLR. OR TOP OF METAL THRESHOLD IF USED.
45. 1/8"=1'-0" MAX SLOPE TO TRANSITION BTWN DOOR AND ADJ. FLR.
46. REFER TO A4-00, A4-10 & ID2.0 FOR FLR. FIN. REMOVAL & NEW INSTALL BOUNDARIES FOR FLR. LEVELING.
47. MRI GRADE FIRE EXTINGUISHER REF. 2/A1-03
48. NEW ELECTRICAL PANEL. SEE ELECTRICAL DRAWINGS AND 4/S4-1 FOR ANCHORAGE.
49. ADD EXPANSION JOINT COVER AFW-200 BY CONSTRUCTION SPECIALTIES. OVERALL DIMENSION 7". 7

NOTE:

GC TO SUBMIT COORDINATION DRAWING BETWEEN STRUCTURAL FRAMING, MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION, FIRE ALARM, SHIELDING, AND GE BEFORE SHOP DRAWING APPROVALS. 6

GC TO CLARIFY IN BID DOCUMENTS HOW COORDINATION DRAWINGS WILL BE PRODUCED.



2 SECOND FLOOR PLAN - WEST
1/4" = 1'-0"

1 FIRST FLOOR PLAN - WEST
1/4" = 1'-0"

GENERAL NOTES:

1. THE GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND MEASUREMENTS IN THE FIELD PRIOR TO STARTING CONSTRUCTION.
2. REFER TO GENERAL NOTES ON SHEET A0-00 FOR INFORMATION NOT INDICATED ON THIS SHEET.

GENERAL FLOOR PLAN NOTES:

1. THE GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND MEASUREMENTS IN THE FIELD PRIOR TO STARTING CONSTRUCTION.
2. THE GENERAL CONTRACTOR SHALL COORDINATE ALL PHASING, ACCESS, DEBRIS REMOVAL, STAGING AREAS AND HOURS OF CONSTRUCTION WITH OWNER PRIOR TO START OF CONSTRUCTION.
3. THE GENERAL CONTRACTOR SHALL COORDINATE WITH STRUCTURAL, MEP, FIRE ALARM, FIRE PROTECTION, NURSE CALL, INTERIORS AND EQUIPMENT DRAWINGS PRIOR TO STARTING CONSTRUCTION. THE PROJECT MANUAL AND ALL DRAWINGS IN THE CONSTRUCTION DRAWINGS SHALL BE PART OF THE CONSTRUCTION DOCUMENTS.
4. THE GENERAL CONTRACTOR SHALL SEPARATE DISSIMILAR METALS WITH BUILDING PAPER OR PLASTIC SHIM.
5. THE GENERAL CONTRACTOR SHALL X-RAY AND/OR ULTRASOUND THE EXISTING CONCRETE FLOORS AND FLOOR ABOVE FOR ANY POSSIBLE EMBEDDED CONDUITS, STRUCTURAL REBAR OR UNFORESEEN CONDITION THAT IS OUTSIDE THE SCOPE OF WORK AND MIGHT IMPEDE THE ANCHORING OF EQUIPMENT OR CONFLICT WITH TRENCHING PRIOR TO CONSTRUCTION.
6. REFER TO GENERAL NOTES ON SHEET A0-00 FOR INFORMATION NOT INDICATED ON THIS SHEET.
7. CONTRACTOR STAGING TO BE IN THE ROOMS UNDER REMODEL.
8. CONTRACTOR PARKING TO BE IN CONTRACTOR DESIGNATED PARKING AREA.
9. THE CONTRACTOR SHALL ENSURE THAT THE AREA UNDER REMODEL IS LOCKED AND OTHERWISE SECURED AFTER HOURS.
10. VERIFY ALL DIMENSIONS WITH EQUIPMENT SCHEDULE PRIOR TO START OF CONSTRUCTION.
11. REFER TO EQUIPMENT PLAN, CEILING PLAN, INTERIOR ELEVATIONS AND ROOM FINISH SCHEDULE ALONG WITH MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION, AND FIRE ALARM SECTIONS FOR FURTHER DESCRIPTION OF SCOPE OF WORK.
12. REFER TO FINISH PLAN AND SCHEDULE AMD INTERIOR DESIGN DOCUMENTS FOR TYPES OF FINISHES.
13. FOR DOOR INFORMATION REFER TO DOOR SCHEDULE, SHEET A6-00.
14. REFER TO SHEETS A0-01 & A1-01 & A1-02 & A1-03 FOR ACCESSIBILITY REQUIREMENTS. 6
15. PROVIDE ACOUSTICAL INSULATION IN ALL NEW WALL ASSEMBLIES.
16. THE GENERAL CONTRACTOR SHALL VERIFY THE LEVELNESS OF THE SLAB AT ALL NEW DOOR LOCATIONS PRIOR TO CONSTRUCTION. APPLY LEVELING MATERIAL AS NECESSARY DURING CONSTRUCTION TO ACHIEVE MAX. OF 3/8" CLEARANCE FROM FINISH FLOOR TO UNDERSIDE OF NEW DOOR, REPLACE FINISHES TO MATCH EXISTING AS NEEDED.
17. THE GENERAL CONTRACTOR SHALL SEISMICALLY ANCHOR ALL EXISTING AND NEW BUILDING SYSTEMS ABOVE CEILING INCLUDING BUT NOT LIMITED TO DUCTWORK, ELECTRICAL CONDUITS AND TRAYS, SPRINKLER PIPES, PLUMBING PIPES, ETC. REFER TO A0-00 FOR MORE INFORMATION.
18. ALL GYPSUM WALL BOARD INSTALLED BEHIND PLUMBING FIXTURES SHALL BE WATER RESISTANT. 5

PARTITION LEGEND:

- INDICATES AN EXISTING MEMBRANE OF PARTITION OR PARTITION TO BE REMOVED. REFER TO DEMOLITION PLAN FOR FURTHER REQUIREMENTS.
- 1 — INDICATES AN EXISTING PARTITION TO REMAIN. REFER TO PLAN FOR UPGRADE REQUIREMENTS.
- SB — SB — INDICATES AN EXISTING 1 HOUR SMOKE BARRIER
- SP — SP — INDICATES AN EXISTING SMOKE PARTITION
- FP — FP — INDICATES AN EXISTING ONE HOUR FIRE RATED PARTITION TO REMAIN. ALL PENETRATIONS SHALL BE PROTECTED WITH A U.L LISTED FIRE STOP SYSTEM.
- FB — FB — INDICATES AN EXISTING ONE HOUR RATED FIRE BARRIER TO REMAIN, ALL PENETRATIONS SHALL BE PROTECTED WITH A U.L LISTED FIRE STOP SYSTEM.
- FB — FB — INDICATES AN EXISTING TWO HOUR RATED FIRE BARRIER TO REMAIN, ALL PENETRATIONS SHALL BE PROTECTED WITH A U.L LISTED FIRE STOP SYSTEM.
- SB — SB — INDICATES A NEW SMOKE BARRIER
- SP — SP — INDICATES A NEW SMOKE PARTITION
- FP — FP — INDICATES A NEW ONE HOUR RATED FIRE PARTITION EXTENDING TO THE UNDERSIDE OF THE STRUCTURE ABOVE. ALL PENETRATIONS SHALL BE PROTECTED WITH A U.L LISTED FIRE STOP SYSTEM.
- FB — FB — INDICATES A NEW ONE HOUR RATED FIRE BARRIER EXTENDING TO THE UNDERSIDE OF THE STRUCTURE ABOVE. ALL PENETRATIONS SHALL BE PROTECTED WITH A U.L LISTED FIRE STOP SYSTEM.
- THICK LINE INDICATES NEW SURFACE FINISH.
- INDICATES AN EXISTING STRUCTURAL CONCRETE WALL TO REMAIN. LOCATE REINFORCING STEEL AND OBTAIN APPROVAL FROM STRUCTURAL ENGINEER PRIOR TO CORING AND/ OR CUTTING.
- X — WALL TYPE REFERENCE REFER TO SHEET A5-10.

PARTITION NOTES:

1. ALL DIMENSIONS SHOWN ARE TO FINISHED SURFACE OF FINISHES INSTALLED ON GYP. BOARD, TYPICAL U.O.N. REFER TO SHEET A5-10 FOR GENERAL NOTES AND REQUIREMENTS FOR PARTITIONS.
2. EXISTING WALLS WERE CONSTRUCTED WITH MANY PERMITS AND/OR CONTRACTS. FIELD VERIFY CONSTRUCTION AND WIDTH PRIOR TO FABRICATION OF DOOR FRAMES OR COMPONENTS WHICH REQUIRE THE WIDTH OF WALL TO BE SET.
3. SEE SHEET A5-00 FOR FIRE PENETRATION DETAILS. 1

STANDARD STEEL STUDS, NAILS, SCREWS, CONDUIT, PIPING, DRAINS AND OTHER HARDWARE ARE ACCEPTABLE IF PROPERLY SECURED. ANY LOOSE STEEL OBJECTS CAN BE VIOLENTLY ACCELERATED INTO THE BORE OF THE MAGNET. CAREFUL THOUGHT SHOULD BE GIVEN TO THE SELECTION OF LIGHT FIXTURES, CABINETS, WALL DECORATIONS, ETC. TO MINIMIZE THIS POTENTIAL HAZARD. FOR SAFETY, ALL REMOVABLE ITEMS WITHIN THE MAGNET ROOM SUCH AS FAUCET HANDLES, DRAIN COVERS, SWITCH BOX COVER PLATES, LIGHT FIXTURE COMPONENTS, MOUNTING SCREWS, ETC. MUST BE NON-MAGNETIC. IF YOU HAVE A SPECIFIC QUESTION ABOUT MATERIAL, BRING IT TO THE ATTENTION OF YOUR GE PROJECT MANAGER OF INSTALLATIONS.

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STRUCTURAL:	MIYAMOTO INTERNATIONAL, INC. 5550 BALTIMORE DRIVE, SUITE 100 LA MESA, CA 91942 TEL(858)457-3001
MECHANICAL &PLUMBING:	SC ENGINEERS, INC. 17075 VIA DEL CAMPO SAN DIEGO, CALIFORNIA 92127 TEL(858)946-0333
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LICENSED ARCHITECT
JOSEPH MICHAEL SFEIR
No. C 28543
REN. 1-31-23
STATE OF CALIFORNIA

1	1	OSHPD COMMENTS	8/3/2020
2	2	DESIGN CHANGES	8/10/2020
3	3	OSHPD COMMENTS	10/2/2020
4	4	OSHPD COMMENTS	11/24/2020
5	5	DESIGN CHANGES	11/24/2020
6	6	ACD 0001 DESIGN CHANGES	4/10/2021
7	7	ACD 0001 DESIGN CHANGES	5/8/2021

REV: DESCRIPTION: DATE:

CONSULTANT

OSHPD APPROVAL STAMP:

OSHPD #: S200813-37-00-ACD0001

SHEET TITLE:

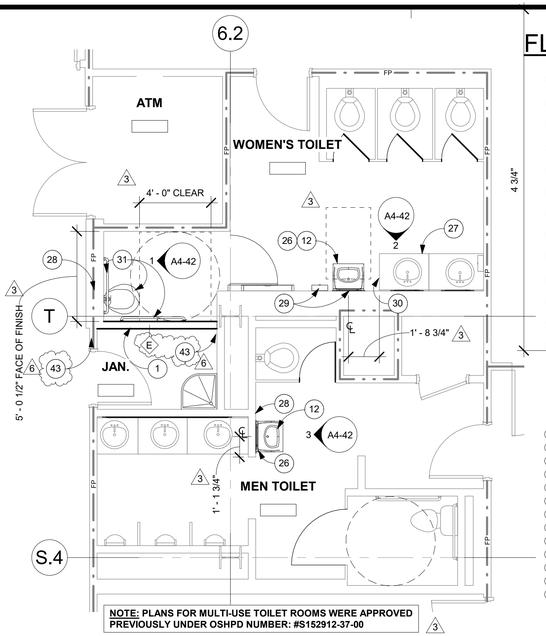
1/4" PARTIAL FLOOR PLAN

PROJECT TITLE:
TCMC MRI

PROJECT #: 01907.01
DRAWN BY: Author
CHECKED BY: Checker
SCALE: PER TITLE
DATE: 3/11/2020

SHEET NUMBER:
A4-10

100% - CONSTRUCTION DOCUMENTS



2 FIRST FLOOR PLAN - RESTROOM

1/4" = 1'-0"

FLOOR PLAN KEYNOTES:

1. INSTALL NEW WALL PER PLAN. SEE DETAILS ON SHEET A5-10.
2. INSTALL NEW PLUMBING FIXTURES. REF PLUMBING DWG.
3. INFILL CORRIDOR WALL WITH 1 HOUR WALL PRIME FINISHES.
4. PATCH PAINT PRIME AND STUCCO COLUMN TO MATCH.
5. INSTALL A NEW DOOR. SEE DOOR SCHEDULE A6-00.
6. INSTALL NEW RF SHIELDING WALL.
7. BORDER OF NEW SHIELDED FLOOR.
8. PASS THROUGH CABINET. w/ LOUVERED DOORS.
9. CUSTOM MILL WORK. WOOD CABINETS w/ PLASTIC LAMINATE.
10. LIMITS OF THE 5 GAUSS MAGNET INFLUENCE.
11. INSTALL REMOVABLE STOREFRONT w/ DOOR AND WINDOW. ROOF 8'-0"
12. NEW ACCESSIBLE SINK.
13. HAND WAVE READER DOOR OPERATOR.
14. MRI QUENCH VENT AND INSULATION. REF TO MECH DRAWINGS AND EJ A/A5-00.
15. 24" x 18" 1 HOUR RATED ACCESS PANEL.
16. MRI EQUIPMENT STORAGE INCLUDING BREAST TREATMENT, VACUUM, & AIR MATTRESS PUMP.
17. HUMIDIFIER. SEE PLUMBING & MECH. & ELECT. DWGS.
18. MRI LINEN STORAGE.
19. OUTPATIENT TEMPORARY WHEELCHAIR STORAGE.
20. NEW SYSTEM FURNITURE. ADJUSTABLE HEIGHT DESK.
21. ETR. BUILDING EXPANSION JOINT.
22. ETR. RECEPTION DESK.
23. NEW SYSTEM FURNITURE BY OTHERS. GC TO COORDINATE SYSTEM INSTALLATION WITH OWNER. WALLS @ 6'-0" HIGH.
24. EXISTING DESK.
25. METAL DETECTOR.
26. NEW PLUMBING FIXTURES & ACCESSORIES. MODIFY EXG PIPINGING THE WALL FOR NEW LOCATION OF EXISTING FIXTURE. PATCH FLR TO FIN. TO MATCH EXG.
27. EXG SALVAGED, MODIFIED COUNTER, SINKS, & ACCESSORIES.
28. PROVIDE SISTER STUDS PER DETAIL 6/S1-2. NEW LAYER OF WATER RESISTANT GWB. PAINTED & WALL TILE TO MATCH EXG. SEE SHEET 1,2,3/A4-42.
29. INSTALL SISTER STUDS AND BACKING PER STRUCTURAL DRAWING 6,10/S1-2. PRIME AND PAINT TO MATCH EXG.
30. WELD PAINTED STEEL @ EDGE OF COUNTER. SEE DETAIL 6/A5-80.
31. RELOCATE EXG TOILET AND ACCESSORIES . PROVIDE BACKING PER 10/S1-2 DWG. SEE PLUMBING DWG. SEAL HOLES WITH GROUT.
32. NEW PATIENT STORAGE LOCKER.
33. STAFF LOCKABLE STORAGE LOCKERS & SHERIFF LOCKED LOCKER. CRASH CART.
34. PAN FLUSHING DEVICE. REF PLUMBING DWG.
35. NON FERROUS GURNEY / BED. BY OWNER (TYP.)
36. CONCRETE PADS TO BE PAINTED. SCRIBE SHEET VINYL TO EDGE.
37. CARD READER DOOR OPERATOR.
38. NEW FLOOR SINK. SEE 1/P3-01.
39. CONCRETE INFILL PER DETAIL 10/S1-1.
40. KNEE WALL UNDER COUNTER TO ENCLOSE SINK WASTE LINE. PER 10/A5-80.
41. ETR. ELECTRICAL PANEL.
42. FINISH TO MATCH ADJACENT EXISTING.
43. BUILD UP FLR. DEPRESSIONS W/ CEMTITIOUS LEVELING ARDEX COMPOUND TO ENSURE MAX. OF 3/8" BTWN BOT. OF DOOR & FIN. FLR. OR TOP OF METAL THRESHOLD IF USED. 1/8"=1'-0" MAX.SLOPE TO TRANSITION BTWN DOOR AND ADJ. FLR.
44. REFER TO A4-00, A4-10 & ID2.0 FOR FLR. FIN. REMOVAL & NEW INSTALL BOUNDARIES FOR FLR. LEVELING.
45. MRI GRADE FIRE EXTINGUISHER REF. 2/A1-03
46. NEW ELECTRICAL PANEL. SEE ELECTRICAL DRAWINGS AND 4/S4-1 FOR ANCHORAGE.
49. ADD EXPANSION JOINT COVER AFW-200 BY CONSTRUCTION SPECIALTIES. OVERALL DIMENSION 7".

NOTE:

GC TO SUBMIT COORDINATION DRAWING BETWEEN STRUCTURAL FRAMING, MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION, FIRE ALARM, SHIELDING, AND GE BEFORE SHOP DRAWING APPROVALS.

GC TO CLARIFY IN BID DOCUMENTS HOW COORDINATION DRAWINGS WILL BE PRODUCED.

GENERAL NOTES:

1. THE GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND MEASUREMENTS IN THE FIELD PRIOR TO STARTING CONSTRUCTION.
2. REFER TO GENERAL NOTES ON SHEET A0-00 FOR INFORMATION NOT INDICATED ON THIS SHEET.

GENERAL FLOOR PLAN NOTES:

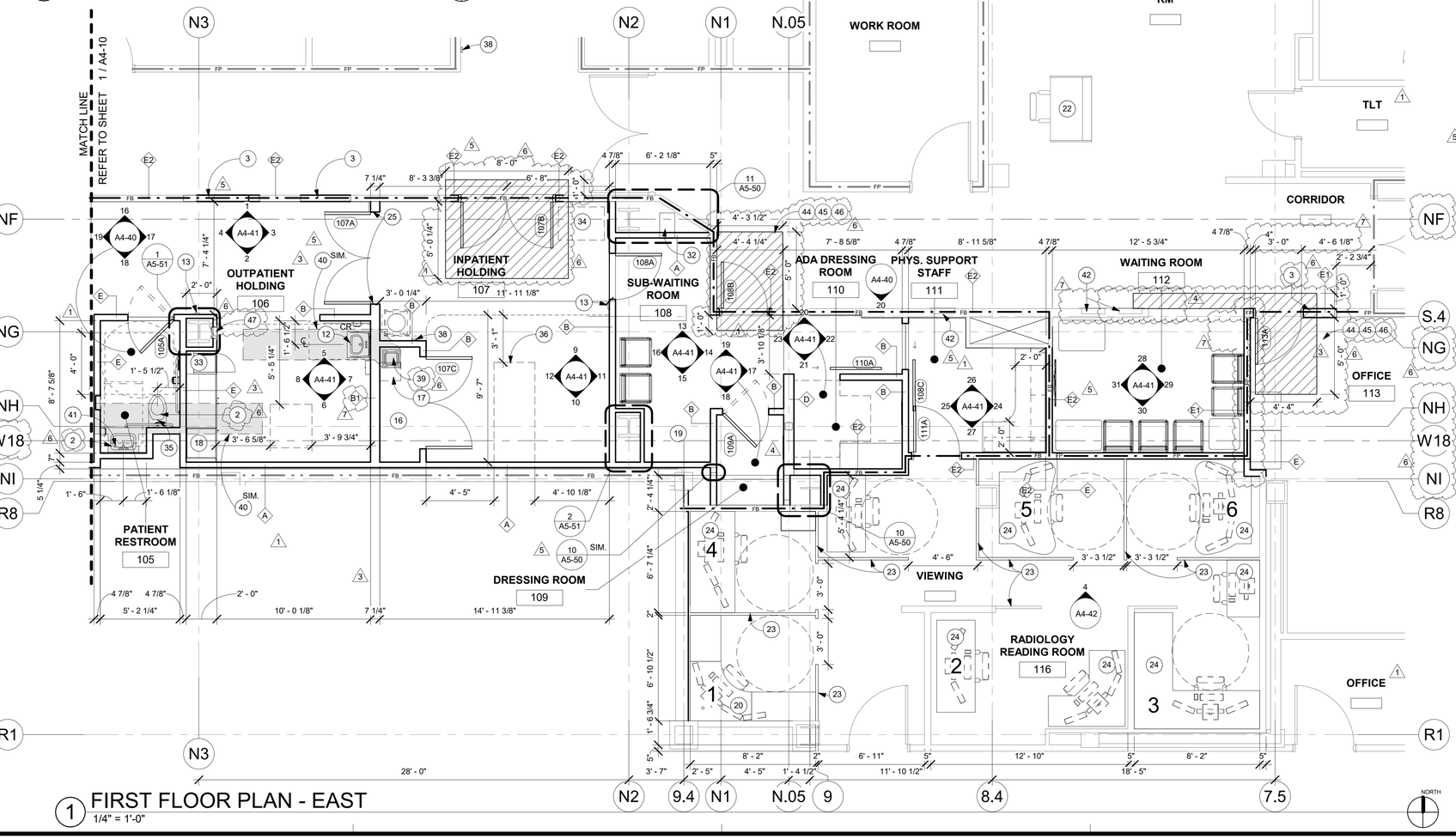
1. THE GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND MEASUREMENTS IN THE FIELD PRIOR TO STARTING CONSTRUCTION.
2. THE GENERAL CONTRACTOR SHALL COORDINATE ALL PHASING, ACCESS, DEBRIS REMOVAL, STAGING AREAS AND HOURS OF CONSTRUCTION WITH OWNER PRIOR TO START OF CONSTRUCTION.
3. THE GENERAL CONTRACTOR SHALL COORDINATE WITH STRUCTURAL, MEP, FIRE ALARM, FIRE PROTECTION, NURSE CALL, INTERIORS AND EQUIPMENT DRAWINGS PRIOR TO STARTING CONSTRUCTION. THE PROJECT MANUAL AND ALL DRAWINGS IN THE CONSTRUCTION DRAWINGS SHALL BE PART OF THE CONSTRUCTION DOCUMENTS.
4. THE GENERAL CONTRACTOR SHALL SEPARATE DISSIMILAR METALS WITH BUILDING PAPER OR PLASTIC SHIM.
5. THE GENERAL CONTRACTOR SHALL X-RAY AND/OR ULTRASOUND THE EXISTING CONCRETE FLOORS AND FLOOR ABOVE FOR ANY POSSIBLE EMBEDDED CONDUITS, STRUCTURAL REBAR OR UNFORESEEN CONDITION THAT IS OUTSIDE THE SCOPE OF WORK AND MIGHT IMPEDE THE ANCHORING OF EQUIPMENT OR CONFLICT WITH TRENCHING PRIOR TO CONSTRUCTION.
6. REFER TO GENERAL NOTES ON SHEET A0-00 FOR INFORMATION NOT INDICATED ON THIS SHEET.
7. CONTRACTOR STAGING TO BE IN THE ROOMS UNDER REMODEL.
8. CONTRACTOR PARKING TO BE IN CONTRACTOR DESIGNATED PARKING AREA.
9. THE CONTRACTOR SHALL ENSURE THAT THE AREA UNDER REMODEL IS LOCKED AND OTHERWISE SECURED AFTER HOURS.
10. VERIFY ALL DIMENSIONS WITH EQUIPMENT SCHEDULE PRIOR TO START OF CONSTRUCTION.
11. REFER TO EQUIPMENT PLAN, CEILING PLAN, INTERIOR ELEVATIONS AND ROOM FINISH SCHEDULE ALONG WITH MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION, AND FIRE ALARM SECTIONS FOR FURTHER DESCRIPTION OF SCOPE OF WORK.
12. REFER TO FINISH PLAN AND SCHEDULE AMD INTERIOR DESIGN DOCUMENTS FOR TYPES OF FINISHES.
13. FOR DOOR INFORMATION REFER TO DOOR SCHEDULE, SHEET A6-00.
14. REFER TO SHEETS A0-01 & A1-01 & A1-02 & A1-03 FOR ACCESSIBILITY REQUIREMENTS.
15. PROVIDE ACOUSTICAL INSULATION IN ALL NEW WALL ASSEMBLIES.
16. THE GENERAL CONTRACTOR SHALL VERIFY THE LEVELNESS OF THE SLAB AT ALL NEW DOOR LOCATIONS PRIOR TO CONSTRUCTION. APPLY LEVELING MATERIAL AS NECESSARY DURING CONSTRUCTION TO ACHIEVE MAX. OF 3/8" CLEARANCE FROM FINISH FLOOR TO UNDERSIDE OF NEW DOOR, REPLACE FINISHES TO MATCH EXISTING AS NEEDED.
17. THE GENERAL CONTRACTOR SHALL SEISMICALLY ANCHOR ALL EXISTING AND NEW BUILDING SYSTEMS ABOVE CEILING INCLUDING BUT NOT LIMITED TO DUCTWORK, ELECTRICAL CONDUITS AND TRAYS, SPRINKLER PIPES, PLUMBING PIPES, ETC. REFER TO A0-00 FOR MORE INFORMATION.
18. ALL GYPSUM WALL BOARD INSTALLED BEHIND PLUMBING FIXTURES SHALL BE WATER RESISTANT.

PARTITION LEGEND:

- INDICATES AN EXISTING MEMBRANE OF PARTITION OR PARTITION TO BE REMOVED. REFER TO DEMOLITION PLAN FOR FURTHER REQUIREMENTS.
- INDICATES AN EXISTING PARTITION TO REMAIN. REFER TO PLAN FOR UPGRADE REQUIREMENTS.
- SB — SB — INDICATES AN EXISTING 1 HOUR SMOKE BARRIER
- SP — SP — INDICATES AN EXISTING SMOKE PARTITION
- FP — FP — INDICATES AN EXISTING ONE HOUR FIRE RATED PARTITION TO REMAIN. ALL PENETRATIONS SHALL BE PROTECTED WITH A U.L LISTED FIRE STOP SYSTEM.
- FB — FB — INDICATES AN EXISTING ONE HOUR RATED FIRE BARRIER TO REMAIN, ALL PENETRATIONS SHALL BE PROTECTED WITH A U.L LISTED FIRE STOP SYSTEM.
- FB — FB — INDICATES AN EXISTING TWO HOUR RATED FIRE BARRIER TO REMAIN, ALL PENETRATIONS SHALL BE PROTECTED WITH A U.L LISTED FIRE STOP SYSTEM.
- SB — SB — INDICATES A NEW SMOKE BARRIER
- SP — SP — INDICATES A NEW SMOKE PARTITION
- FP — FP — INDICATES A NEW ONE HOUR RATED FIRE PARTITION EXTENDING TO THE UNDERSIDE OF THE STRUCTURE ABOVE. ALL PENETRATIONS SHALL BE PROTECTED WITH A U.L LISTED FIRE STOP SYSTEM.
- FB — FB — INDICATES A NEW ONE HOUR RATED FIRE BARRIER EXTENDING TO THE UNDERSIDE OF THE STRUCTURE ABOVE. ALL PENETRATIONS SHALL BE PROTECTED WITH A U.L LISTED FIRE STOP SYSTEM.
- THICK LINE INDICATES NEW SURFACE FINISH.
- INDICATES AN EXISTING STRUCTURAL CONCRETE WALL TO REMAIN. LOCATE REINFORCING STEEL AND OBTAIN APPROVAL FROM STRUCTURAL ENGINEER PRIOR TO CORING AND/ OR CUTTING.
- X — WALL TYPE REFERENCE REFER TO SHEET A5-10.

PARTITION NOTES:

1. ALL DIMENSIONS SHOWN ARE TO FINISHED SURFACE OF FINISHES INSTALLED ON GYP. BOARD, TYPICAL U.O.N. REFER TO SHEET A5-10 FOR GENERAL NOTES AND REQUIREMENTS FOR PARTITIONS.
2. EXISTING WALLS WERE CONSTRUCTED WITH MANY PERMITS AND/OR CONTRACTS. FIELD VERIFY CONSTRUCTION AND WIDTH PRIOR TO FABRICATION OF DOOR FRAMES OR COMPONENTS WHICH REQUIRE THE WIDTH OF WALL TO BE SET.
3. SEE SHEET A5-00 FOR FIRE PENETRATION DETAILS.



1 FIRST FLOOR PLAN - EAST

1/4" = 1'-0"

S F E I R
A R C H I T E C T S

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TCMC MRI

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MECHANICAL &PLUMBING:	SC ENGINEERS, INC. 17075 VIA DEL CAMPO SAN DIEGO, CALIFORNIA 92127 TEL(858)946-0333
ELECTRICAL:	AG DESIGN, INC. 171 S. ANITA DR. SUITE 111 ORANGE, CALIFRONIA 92868 TEL(714)769-9900 EXT. 201
SHIELDING:	MRI SHIELDING CORPORATION 3554 BUISNESS PARK DR., SUITE B COSTA MESA, CA 92626 TEL(714)545-7700
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LICENSED ARCHITECT
JOSEPH MICHAEL SFEIR
No. C 28543
REN. 1-31-23
STATE OF CALIFORNIA

1	1	OSHPD COMMENTS	8/3/2020
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REV: DESCRIPTION: DATE:

CONSULTANT

OSHPD APPROVAL STAMP:

OSHPD #: S200813-37-00-ACD0001

SHEET TITLE:

1/4" PARTIAL FLOOR PLAN

PROJECT TITLE:

TCMC MRI

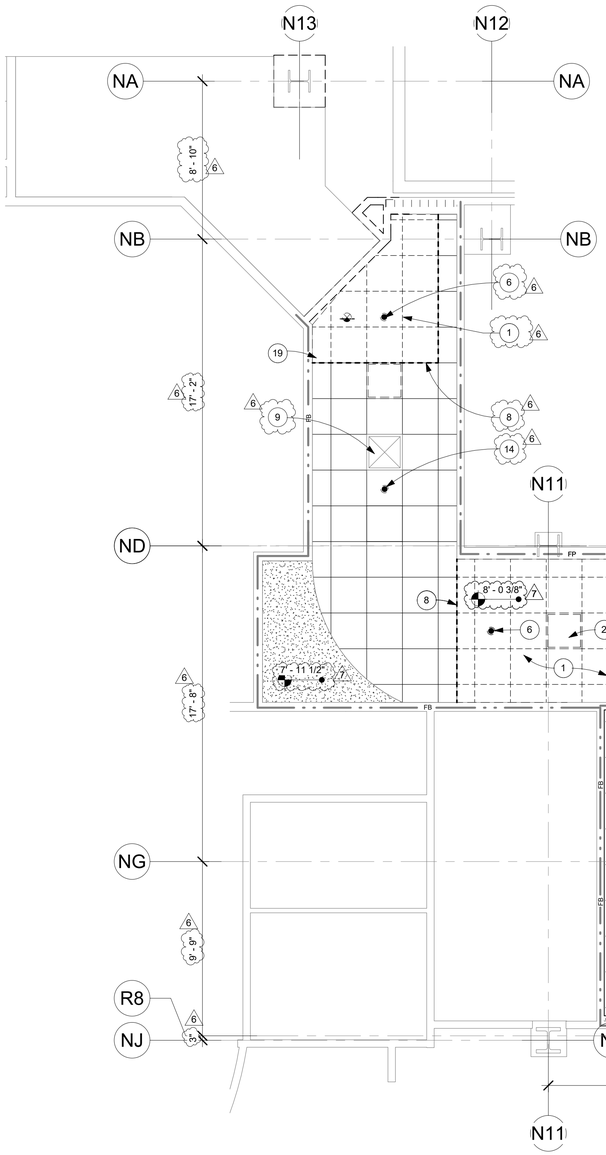
PROJECT #: 01907.01
DRAWN BY: Author
CHECKED BY: Checker
SCALE: PER TITLE
DATE: 3/11/2020

SHEET NUMBER: A4-11

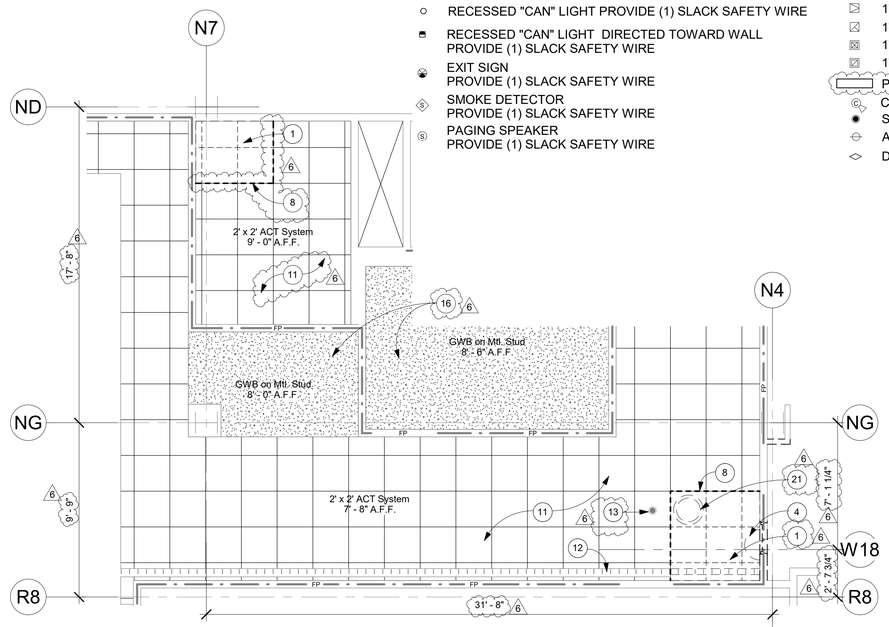
100% - CONSTRUCTION DOCUMENTS

MATERIAL LEGEND:

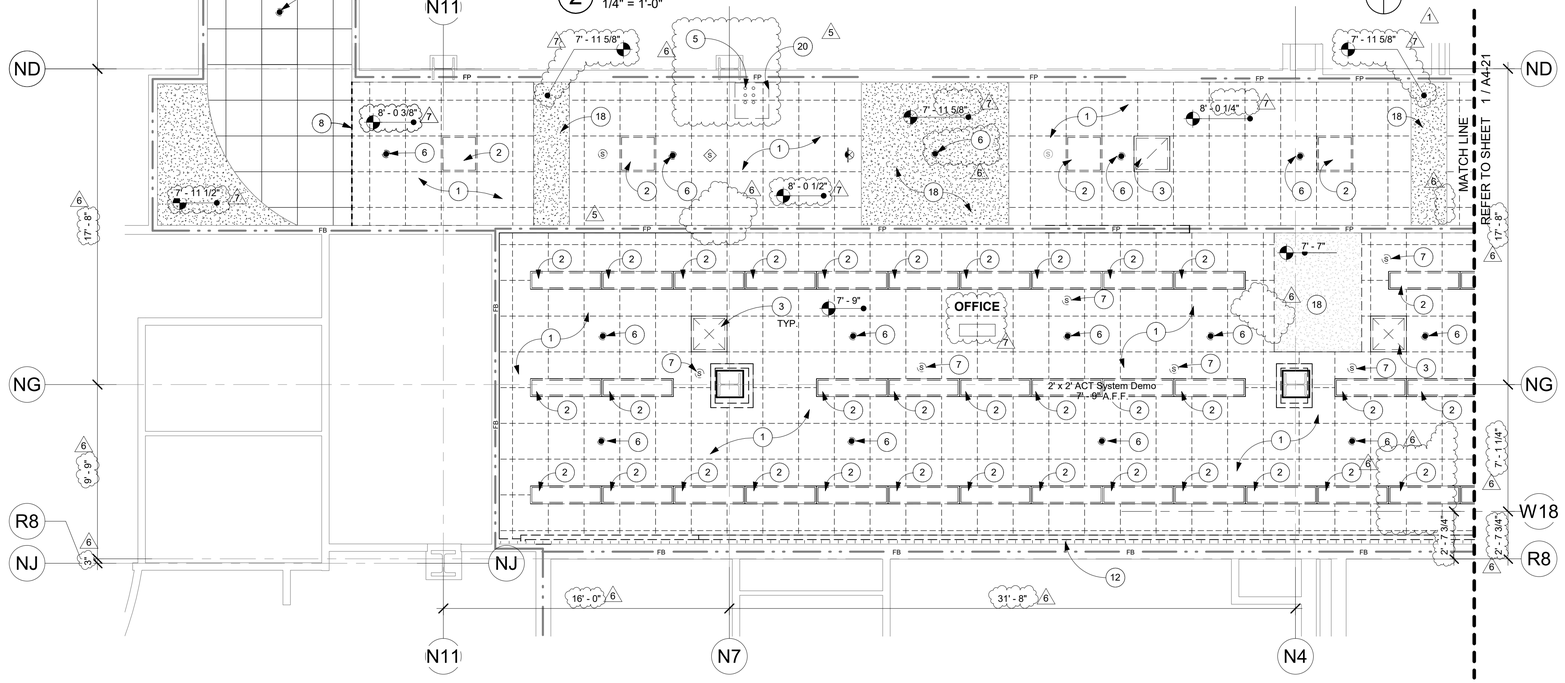
- 2' X 2' ACOUSTICAL CEILING TILE WITH TEGULAR EDGE
- SUSPENDED GYP. BOARD CEILING
- 2X4 RECESSED LAY-IN LED LIGHT FIXTURE PROVIDE (2) SLACK SAFETY WIRES AT DIAGONAL CORNERS
- 2X2 RECESSED LAY-IN LED LIGHT FIXTURE PROVIDE (2) SLACK SAFETY WIRES AT DIAGONAL CORNERS
- RECESSED "CAN" LIGHT PROVIDE (1) SLACK SAFETY WIRE
- RECESSED "CAN" LIGHT DIRECTED TOWARD WALL PROVIDE (1) SLACK SAFETY WIRE
- EXIT SIGN PROVIDE (1) SLACK SAFETY WIRE
- SMOKE DETECTOR PROVIDE (1) SLACK SAFETY WIRE
- PAGING SPEAKER PROVIDE (1) SLACK SAFETY WIRE
- 2'-0" RETURN AIR
- RETURN AIR OR EXHAUST PROVIDE (2) SLACK SAFETY WIRES AT DIAGONAL CORNERS
- 3'-0" SUPPLY AIR DIFFUSER
- SUPPLY AIR DIFFUSER PROVIDE (2) SLACK SAFETY WIRES AT DIAGONAL CORNERS
- 2'x2' CEILING ACCESS PANEL
- 1'x1' CEILING ACCESS PANEL
- 1'x1' CEILING EXHAUST
- 1' x 1' CEILING HVAC SUPPLY
- 1' x 1' CEILING HVAC SUPPLY
- PERIMITER LED CEILING LIGHT
- CAMERA
- SPRINKLER
- AUDIBLE NURSE CALL
- DOME LIGHT



1 FIRST FLOOR DEMO RCP - WEST
1/4" = 1'-0"



2 SECOND FLOOR DEMO RCP
1/4" = 1'-0"



NORTH

GENERAL NOTES:

1. THE GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND MEASUREMENTS IN THE FIELD PRIOR TO STARTING CONSTRUCTION.
2. REFER TO GENERAL NOTES ON SHEET A0-00 FOR INFORMATION NOT INDICATED ON THIS SHEET.

RCP DEMOLITION NOTES:

A. GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND MEASUREMENTS IN THE FIELD PRIOR TO START OF CONSTRUCTION.

B. GENERAL CONTRACTOR SHALL COORDINATE PHASING, ACCESS, DEBRIS REMOVAL, STAGING AREAS, AND HOURS OF CONSTRUCTION WITH OWNER PRIOR TO START OF CONSTRUCTION.

C. UNLESS OTHERWISE NOTED, CONTRACTOR SHALL COORDINATE WITH THE OWNER THE REMOVAL OF EXISTING EQUIPMENT INDICATED ON DRAWINGS.

GENERAL CONTRACTOR SHALL COORDINATE WITH STRUCTURAL, MEP, FIRE ALARM, FIRE PROTECTION, NURSE CALL, INTERIORS, AND EQUIPMENT DRAWINGS PRIOR TO STARTING CONSTRUCTION. THE PROJECT MANUAL AND ALL DRAWINGS IN THE CONSTRUCTION DRAWINGS SHALL BE PART OF THE CONSTRUCTION DOCUMENTS.

E. DASHED LINES INDICATE ITEMS TO BE DEMOLISHED OR REMOVED. REFER TO RELATED PLANS, INCLUDING THE FLOOR PLANS, EQUIPMENT PLAN, CEILING PLANS, AND ROOM FINISH SCHEDULE ALONG WITH MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION FOR PORTIONS OF EXISTING CONSTRUCTION SCHEDULED TO REMAIN.

F. REFER TO PROPOSED PLANS AND INTERIOR ELEVATIONS FOR LOCATION OF NEW WALL CONNECTIONS, OPENINGS, RECESSED ITEMS, BACKING PLATES, ETC. AT EXISTING WALLS. REMOVE GYPSUM BOARD WHERE NEEDED TO ACCOMMODATE THE ABOVE WORK.

G. GENERAL CONTRACTOR SHALL X-RAY AND/OR ULTRASOUND THE EXISTING CONCRETE FLOORS AND FLOOR ABOVE FOR ANY POSSIBLE EMBEDDED CONDUITS, STRUCTURAL REBAR, OR UNFORESEEN CONDITIONS OUTSIDE THE SCOPE OF WORK THAT MIGHT IMPEDE THE ANCHORING OF EQUIPMENT OR CONFLICT WITH TRENCHING PRIOR TO CONSTRUCTION.

H. TYPICALLY CAP AND CLOSE ALL ABANDONED OPENINGS AT EXISTING SLAB. FILL AND PATCH TO LEVEL FLOOR PER DETAILS ON STRUCTURAL SHEETS. NOTIFY ARCHITECT OF UNCOVERED EXISTING CONDITIONS.

I. GENERAL CONTRACTOR SHALL INSTALL A TEMPORARY DUST/INFECTION CONTROL BARRIER BETWEEN WORK AREA AND ALL ADJACENT ROOMS AND CORRIDORS. INSTALL TEMPORARY CURTAIN OF FIRE-RETARDANT VISQUEEN IN THE PLENUM BETWEEN TOP OF STUD PARTITION AND UNDERSIDE OF DECK ABOVE. SEAL ALL OPENINGS INCL. DOORS, AIR SUPPLIES, RETURNS, AND EXHAUST GRILLES. GENERAL CONTRACTOR SHALL PROVIDE A TEMPORARY HEPA FILTRATION SYSTEM WITH NEGATIVE PRESSURE FOR EACH AREA OF THE REMODEL. EXHAUST FILTERED AIR FROM ROOMS UNDER CONSTRUCTION THROUGH BUILDING AIR RETURN SYSTEM. GENERAL CONTRACTOR TO COORDINATE BARRIER TYPE, ACCESS, AND FILTRATION SYSTEM WITH OWNER.

J. TEMPORARY CONSTRUCTION BARRIERS ARE REQUIRED TO BE INSTALLED DURING CONSTRUCTION OR RECONSTRUCTION OF FIRE-RESISTIVE ASSEMBLIES AND SHALL MEET THE SAME FIRE RATING AS THE SPECIFIC PERMANENT PARTITION. TEMPORARY INSTALLATIONS SHALL MAINTAIN ADEQUATE EGRESS IN COMPLIANCE WITH THE CBC AND SHALL NOT OBSTRUCT EXISTING EXITS, CREATE A FIRE HAZARD, OR REDUCE REQUIRED FIRE RESISTANCE.

K. CONTRACTOR STAGING TO BE IN THE ROOMS UNDER REMODEL.

L. CONTRACTOR PARKING TO BE IN CONTRACTOR DESIGNATED PARKING AREA.

M. THE CONTRACTOR SHALL ENSURE THAT THE AREA UNDER REMODEL IS LOCKED AND OTHERWISE SECURED AFTER HOURS.

N. DRILLING AND RAM-SETTING TO BE DONE AFTER HOURS.

O. GENERAL CONTRACTOR SHALL PRESERVE AND PROTECT THE PORTIONS OF THE EXISTING OVERHEAD PAGING, TELEPHONE, DATA, ELECTRICAL LINES, ETC. DURING THE COURSE OF CONSTRUCTION. MANY OF THESE SYSTEMS ARE SCHEDULED FOR REUSE BY THE OWNER UNDER THIS OR SEPARATE CONTRACTS.

P. PATCH NEW WORK TO MATCH AND ALIGN WITH EXISTING. COMPLETELY REMOVE EXISTING FINISHES WHERE NEW FINISHES ARE SCHEDULED.

Q. CONTRACTOR SHALL PRESERVE AND PROTECT THE EXISTING AREA, EQUIPMENT, CABINETRY, ETC. ADJACENT TO THE AREA OF WORK.

RCP DEMOLITION KEYNOTES:

1. REMOVE CEILING ACOUSTIC CEILING TILE & DISPOSE.
2. REMOVE EXISTING LIGHT FIXTURES & DISPOSE.
3. REMOVE EXISTING MECHANICAL GRILLES.
4. REMOVE EXISTING MIRROR.
5. PENETRATE THE CONCRETE METAL DECK FOR MECHANICAL DUCT. REFER TO MECHANICAL DRAWINGS
6. REMOVE EXISTING FIRE SPRINKLER.
7. REMOVE EXISTING PAGING SPEAKER.
8. LIMIT OF WORK.
9. ETR. MECHANICAL GRILLES.
10. EXISTING LEAK IN CEILING. FIND AND FIX.
11. ETR. ACOUSTICAL CEILING TILE.
12. ETR. BUILDING EXPANSION JOINT.
13. ETR. SPRINKLER HEAD.
14. ETR. LIGHTING FIXTURE.
15. ETR. SPEAKER.
16. ETR. GYPSUM BOARD CEILING.
17. REMOVE PART OF THE GYPSUM BOARD CEILING. PER PLAN. PIPE PENETRATION IN STEEL DECK ABOVE SEE DETAIL.
18. ETR. GYPSUM BOARD BOX OUT.
19. ETR. FIRE ALARM.
20. REMOVE STEEL DECK ABOVE. SEE 2/A5-50 AND 1/S1-4.
21. SALVAGE LIGHT TO BE REINSTALLED.

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A R C H I T E C T S

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TCMC MRI

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LICENSED ARCHITECT
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No. C 28543
REN. 1-31-23
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A4-20

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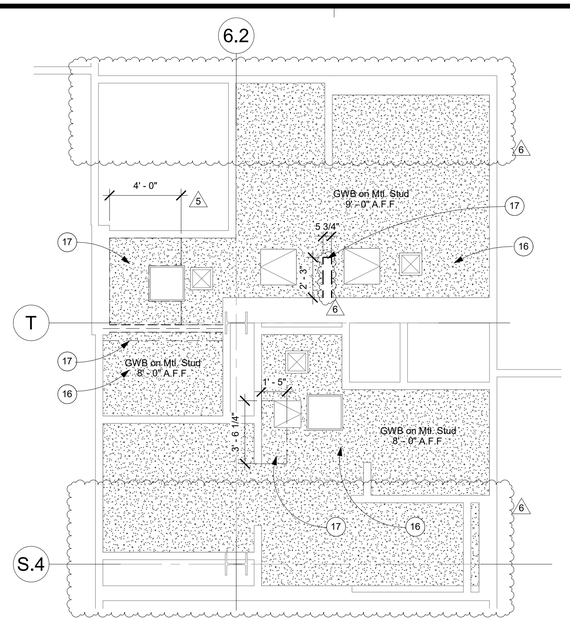


2 FIRST FLOOR DEMO RCP - RESTROOM
1/4" = 1'-0"

NORTH

MATERIAL LEGEND:

- 2' X 2' ACOUSTICAL CEILING TILE WITH TEGULAR EDGE
- SUSPENDED GYP. BOARD CEILING
- 2X4 RECESSED LAY-IN LED LIGHT FIXTURE PROVIDE (2) SLACK SAFETY WIRES AT DIAGONAL CORNERS (5)
- 2X2 RECESSED LAY-IN LED LIGHT FIXTURE PROVIDE (2) SLACK SAFETY WIRES AT DIAGONAL CORNERS (5)
- RECESSED "CAN" LIGHT PROVIDE (1) SLACK SAFETY WIRE
- RECESSED "CAN" LIGHT DIRECTED TOWARD WALL PROVIDE (1) SLACK SAFETY WIRE
- EXIT SIGN PROVIDE (1) SLACK SAFETY WIRE
- SMOKE DETECTOR PROVIDE (1) SLACK SAFETY WIRE
- PAGING SPEAKER PROVIDE (1) SLACK SAFETY WIRE
- 2'-0" RETURN AIR
- RETURN AIR OR EXHAUST PROVIDE (2) SLACK SAFETY WIRES AT DIAGONAL CORNERS
- 3'-0" SUPPLY AIR DIFFUSER
- SUPPLY AIR DIFFUSER PROVIDE (2) SLACK SAFETY WIRES AT DIAGONAL CORNERS
- 2'x2' CEILING ACCESS PANEL
- 1'x1' CEILING ACCESS PANEL
- 1'x1' CEILING EXHAUST
- 1' x 1' CEILING HVAC SUPPLY
- 1' x 1' CEILING HVAC SUPPLY
- PERIMITER LED CEILING LIGHT (5, 6)
- CAMERA
- SPRINKLER
- AUDIBLE NURSE CALL
- DOME LIGHT

GENERAL NOTES:

1. THE GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND MEASUREMENTS IN THE FIELD PRIOR TO STARTING CONSTRUCTION.
2. REFER TO GENERAL NOTES ON SHEET A0-00 FOR INFORMATION NOT INDICATED ON THIS SHEET.

RCP DEMOLITION NOTES:

A. GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND MEASUREMENTS IN THE FIELD PRIOR TO START OF CONSTRUCTION.

B. GENERAL CONTRACTOR SHALL COORDINATE PHASING, ACCESS, DEBRIS REMOVAL, STAGING AREAS, AND HOURS OF CONSTRUCTION WITH OWNER PRIOR TO START OF CONSTRUCTION.

C. UNLESS OTHERWISE NOTED, CONTRACTOR SHALL COORDINATE WITH THE OWNER THE REMOVAL OF EXISTING EQUIPMENT INDICATED ON DRAWINGS.

D. GENERAL CONTRACTOR SHALL COORDINATE WITH STRUCTURAL, MEP, FIRE ALARM, FIRE PROTECTION, NURSE CALL, INTERIORS, AND EQUIPMENT DRAWINGS PRIOR TO STARTING CONSTRUCTION. THE PROJECT MANUAL AND ALL DRAWINGS IN THE CONSTRUCTION DRAWINGS SHALL BE PART OF THE CONSTRUCTION DOCUMENTS.

E. DASHED LINES INDICATE ITEMS TO BE DEMOLISHED OR REMOVED. REFER TO RELATED PLANS, INCLUDING THE FLOOR PLANS, EQUIPMENT PLAN, CEILING PLANS, AND ROOM FINISH SCHEDULE ALONG WITH MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION FOR PORTIONS OF EXISTING CONSTRUCTION SCHEDULED TO REMAIN.

F. REFER TO PROPOSED PLANS AND INTERIOR ELEVATIONS FOR LOCATION OF NEW WALL CONNECTIONS, OPENINGS, RECESSED ITEMS, BACKING PLATES, ETC. AT EXISTING WALLS. REMOVE GYPSUM BOARD WHERE NEEDED TO ACCOMMODATE THE ABOVE WORK.

G. GENERAL CONTRACTOR SHALL X-RAY AND/OR ULTRASOUND THE EXISTING CONCRETE FLOORS AND FLOOR ABOVE FOR ANY POSSIBLE EMBEDDED CONDUITS, STRUCTURAL REBAR, OR UNFORESEEN CONDITIONS OUTSIDE THE SCOPE OF WORK THAT MIGHT IMPEDE THE ANCHORING OF EQUIPMENT OR CONFLICT WITH TRENCHING PRIOR TO CONSTRUCTION.

H. TYPICALLY CAP AND CLOSE ALL ABANDONED OPENINGS AT EXISTING SLAB. FILL AND PATCH TO LEVEL FLOOR PER DETAILS ON STRUCTURAL SHEETS. NOTIFY ARCHITECT OF UNCOVERED EXISTING CONDITIONS.

I. GENERAL CONTRACTOR SHALL INSTALL A TEMPORARY DUST/INFECTION CONTROL BARRIER BETWEEN WORK AREA AND ALL ADJACENT ROOMS AND CORRIDORS. INSTALL TEMPORARY CURTAIN OF FIRE-RETARDANT VISQUEEN IN THE PLENUM BETWEEN TOP OF STUD PARTITION AND UNDERSIDE OF DECK ABOVE. SEAL ALL OPENINGS INCL. DOORS, AIR SUPPLIES, RETURNS, AND EXHAUST GRILLES. GENERAL CONTRACTOR SHALL PROVIDE A TEMPORARY HEPA FILTRATION SYSTEM WITH NEGATIVE PRESSURE FOR EACH AREA OF THE REMODEL. EXHAUST FILTERED AIR FROM ROOMS UNDER CONSTRUCTION THROUGH BUILDING AIR RETURN SYSTEM. GENERAL CONTRACTOR TO COORDINATE BARRIER TYPE, ACCESS, AND FILTRATION SYSTEM WITH OWNER.

J. TEMPORARY CONSTRUCTION BARRIERS ARE REQUIRED TO BE INSTALLED DURING CONSTRUCTION OR RECONSTRUCTION OF FIRE-RESISTIVE ASSEMBLIES AND SHALL MEET THE SAME FIRE RATING AS THE SPECIFIC PERMANENT PARTITION. TEMPORARY INSTALLATIONS SHALL MAINTAIN ADEQUATE EGRESS IN COMPLIANCE WITH THE CBC AND SHALL NOT OBSTRUCT EXISTING EXITS, CREATE A FIRE HAZARD, OR REDUCE REQUIRED FIRE RESISTANCE.

K. CONTRACTOR STAGING TO BE IN THE ROOMS UNDER REMODEL.

L. CONTRACTOR PARKING TO BE IN CONTRACTOR DESIGNATED PARKING AREA.

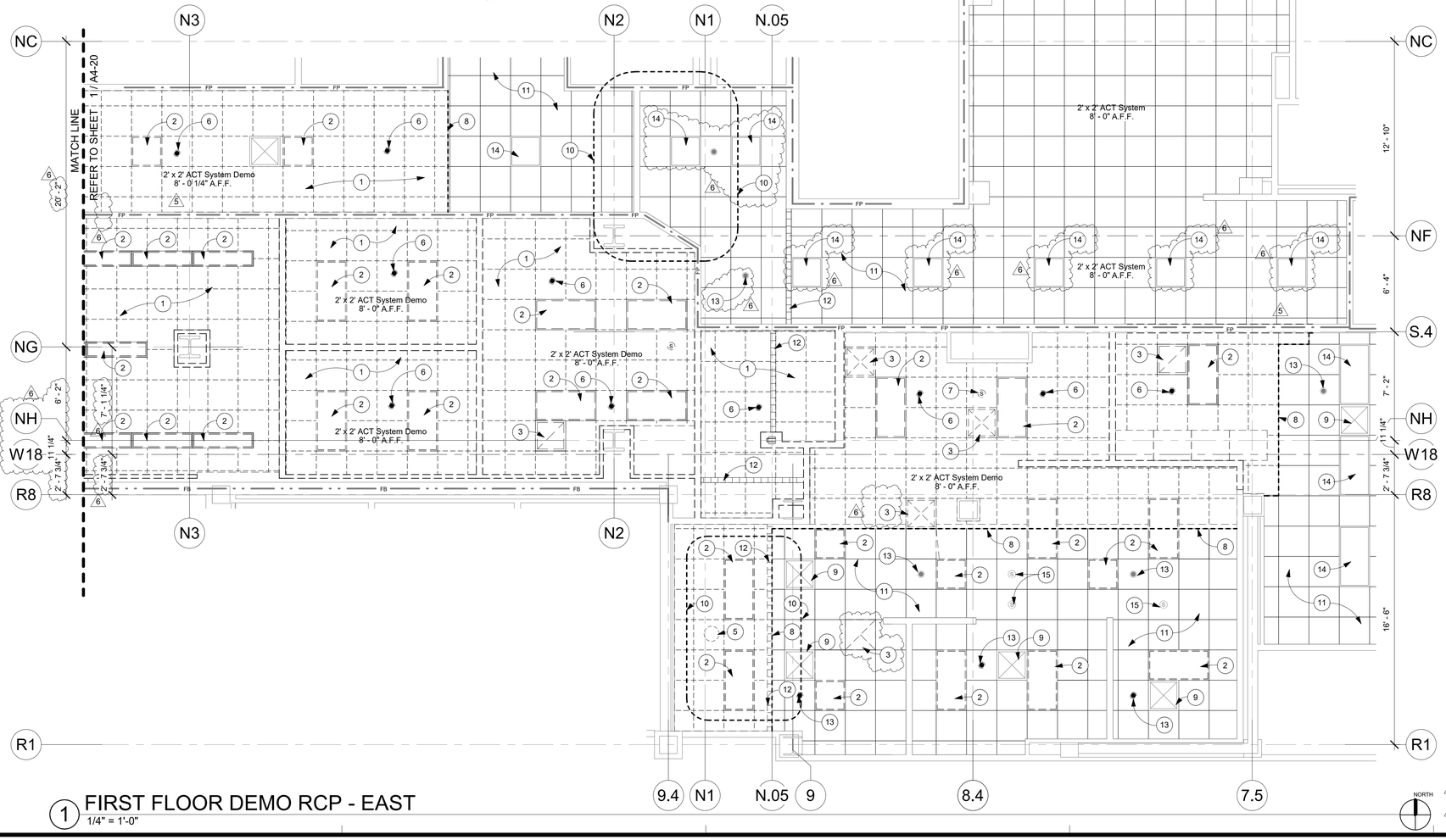
M. THE CONTRACTOR SHALL ENSURE THAT THE AREA UNDER REMODEL IS LOCKED AND OTHERWISE SECURED AFTER HOURS.

N. DRILLING AND RAM-SETTING TO BE DONE AFTER HOURS.

O. GENERAL CONTRACTOR SHALL PRESERVE AND PROTECT THE PORTIONS OF THE EXISTING OVERHEAD PAGING, TELEPHONE, DATA, ELECTRICAL LINES, ETC. DURING THE COURSE OF CONSTRUCTION. MANY OF THESE SYSTEMS ARE SCHEDULED FOR REUSE BY THE OWNER UNDER THIS OR SEPARATE CONTRACTS.

P. PATCH NEW WORK TO MATCH AND ALIGN WITH EXISTING. COMPLETELY REMOVE EXISTING FINISHES WHERE NEW FINISHES ARE SCHEDULED.

Q. CONTRACTOR SHALL PRESERVE AND PROTECT THE EXISTING AREA, EQUIPMENT, CABINETRY, ETC. ADJACENT TO THE AREA OF WORK.



1 FIRST FLOOR DEMO RCP - EAST
1/4" = 1'-0"

NORTH

S F E I R
A R C H I T E C T S

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LICENSED ARCHITECT
JOSEPH MICHAEL SFEIR
No. C 28543
REN. 1-31-23
STATE OF CALIFORNIA

1	1	OSHPD COMMENTS	8/3/2020
2	2	DESIGN CHANGES	8/10/2020
3	3	OSHPD COMMENTS	10/2/2020
4	4	OSHPD COMMENTS	11/24/2020
5	5	DESIGN CHANGES	11/24/2020
6	6	ACD 0001 DESIGN CHANGES	4/10/2021
7	7	ACD 0001 DESIGN CHANGES	5/8/2021

REV: DESCRIPTION: DATE:

CONSULTANT

OSHPD APPROVAL STAMP:

OSHPD #: S200813-37-00-ACD0001

SHEET TITLE:

1/4" PARTIAL DEMO RCP

PROJECT TITLE:

TCMC MRI

PROJECT #: 01907.01
DRAWN BY: Author
CHECKED BY: Checker
SCALE: PER TITLE
DATE: 3/11/2020

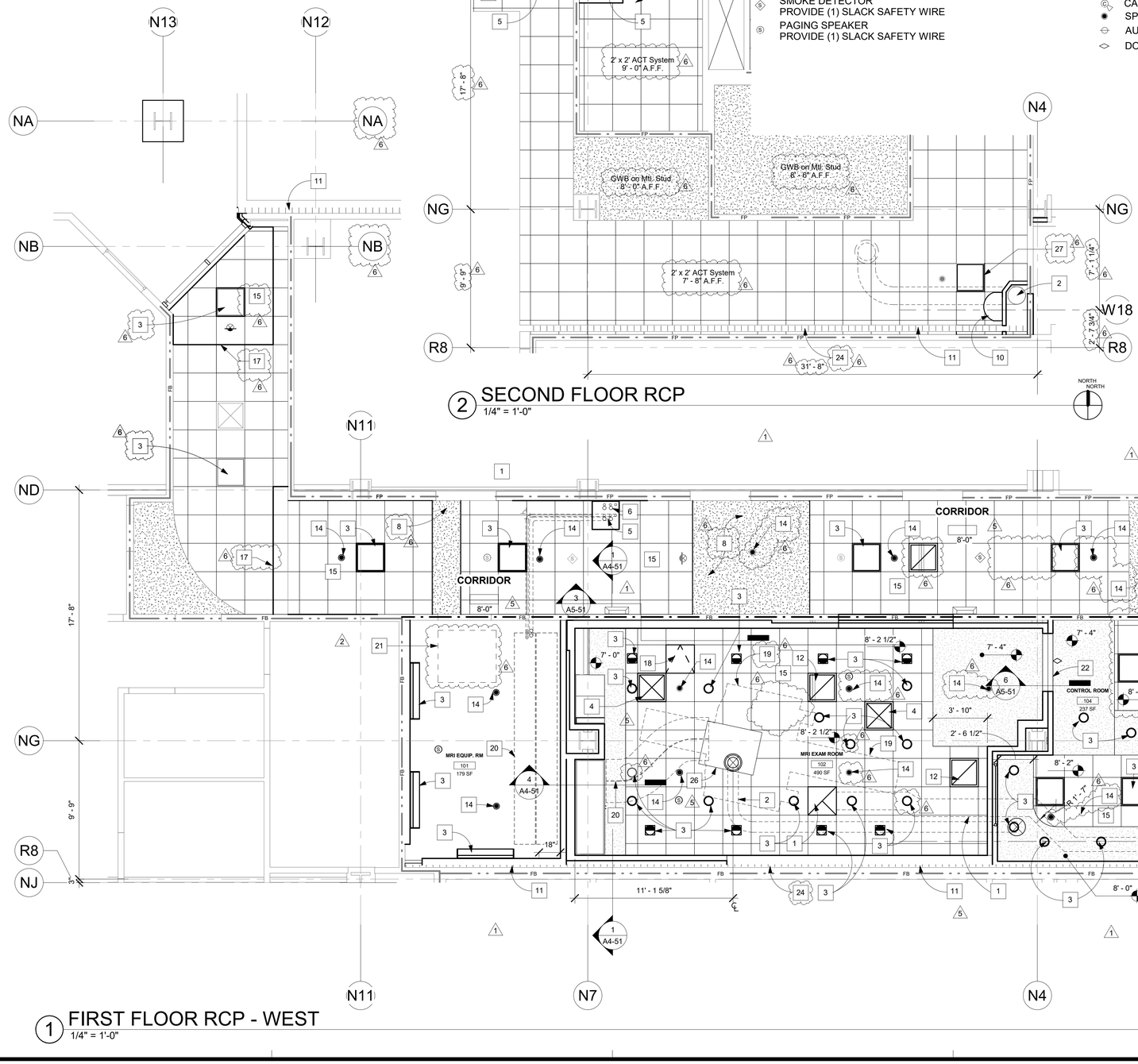
SHEET NUMBER:

A4-21

100% - CONSTRUCTION DOCUMENTS

MATERIAL LEGEND:

- 2' X 2' ACOUSTICAL CEILING TILE WITH TEGULAR EDGE
- SUSPENDED GYP. BOARD CEILING
- 2X4 RECESSED LAY-IN LED LIGHT FIXTURE PROVIDE (2) SLACK SAFETY WIRES AT DIAGONAL CORNERS
- 2X2 RECESSED LAY-IN LED LIGHT FIXTURE PROVIDE (2) SLACK SAFETY WIRES AT DIAGONAL CORNERS
- RECESSED "CAN" LIGHT PROVIDE (1) SLACK SAFETY WIRE
- RECESSED "CAN" LIGHT DIRECTED TOWARD WALL PROVIDE (1) SLACK SAFETY WIRE
- EXIT SIGN PROVIDE (1) SLACK SAFETY WIRE
- SMOKE DETECTOR PROVIDE (1) SLACK SAFETY WIRE
- PAGING SPEAKER PROVIDE (1) SLACK SAFETY WIRE
- 2'-0" RETURN AIR
- RETURN AIR OR EXHAUST PROVIDE (2) SLACK SAFETY WIRES AT DIAGONAL CORNERS
- 3'-0" SUPPLY AIR DIFFUSER
- SUPPLY AIR DIFFUSER PROVIDE (2) SLACK SAFETY WIRES AT DIAGONAL CORNERS
- 2'x2' CEILING ACCESS PANEL
- 1'x1' CEILING ACCESS PANEL
- 1'x1' CEILING EXHAUST
- 1' x 1' CEILING HVAC SUPPLY
- 1' x 1' CEILING HVAC SUPPLY
- PERIMITER LED CEILING LIGHT
- CAMERA
- SPRINKLER
- AUDIBLE NURSE CALL
- DOME LIGHT



1 FIRST FLOOR RCP - WEST
1/4" = 1'-0"

2 SECOND FLOOR RCP
1/4" = 1'-0"

GENERAL NOTES:

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3. THE GENERAL CONTRACTOR SHALL COORDINATE WITH STRUCTURAL, MEP, FIRE ALARM, FIRE PROTECTION, NURSE CALL, INTERIORS AND EQUIPMENT DRAWINGS PRIOR TO STARTING CONSTRUCTION. THE PROJECT MANUAL AND ALL DRAWINGS IN THE CONSTRUCTION DRAWINGS SHALL BE PART OF THE CONSTRUCTION DOCUMENTS.
4. THE GENERAL CONTRACTOR SHALL SEPARATE DISSIMILAR METALS WITH BUILDING PAPER OR PLASTIC SHIM.
5. THE GENERAL CONTRACTOR SHALL X-RAY AND/OR ULTRASOUND THE EXISTING CONCRETE FLOORS FOR ANY POSSIBLE EMBEDDED CONDUITS, STRUCTURAL REBAR OR UNFORESEEN CONDITION THAT IS OUTSIDE THE SCOPE OF WORK AND MIGHT IMPEDE THE ANCHORING OF EQUIPMENT OR CONFLICT WITH TRENCHING PRIOR TO CONSTRUCTION.
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7. CONTRACTOR STAGING TO BE IN THE ROOMS UNDER REMODEL.
8. CONTRACTOR PARKING TO BE IN CONTRACTOR DESIGNATED PARKING AREA.
9. THE CONTRACTOR SHALL ENSURE THAT THE AREA UNDER REMODEL IS LOCKED AND OTHERWISE SECURED AFTER HOURS.
10. CEILING HEIGHTS TO MATCH EXISTING UNLESS OTHERWISE NOTED (NOT LESS THAN 8'-0")
11. REFER TO SHEET A5-60 AND A5-70 FOR CEILING DETAILS.
12. REFER TO ELECTRICAL DRAWINGS FOR LIGHT FIXTURE TYPES.
13. FIRE SPRINKLER HEAD LAYOUT MUST BE APPROVED BY ARCHITECT PRIOR TO INSTALLATION, ALL EXPOSED SPRINKLER HEAD COMPONENTS SHALL BE WHITE.

RCP KEYNOTES:

1. INSTALL EXHAUST DUCT. REF MECH DWG.
2. INSTALL QUENCH VENT DUCT. REF MECH DWG.
3. INSTALL NEW LIGHTING. REF ELECT DWG.
4. INSTALL NEW MECH GRILLE. REF MECH DWG.
5. INSTALL NEW CHILLER & CONDENSER LINES REF PLUMBING DWG.
6. INSTALL FIRE & WEATHER PROOF PLUGS IN THE FUTURE PLUMBING PENETRATIONS.
7. INSTALL NEW GYP BOARD CEILING. PRIME AND PAINT PER DETAIL 12/A5-60.
8. PRIME AND PAINT EXG GYP BOARD CEILING.
9. INSTALL A NEW 4" LED LIGHT STRIP.
10. INSTALL CLG MOUNTED MIRROR.
11. ETR. BLDG EJ.
12. INSTALL PRESSURE RELEASE VENT. REF MECH DWG.
13. INSTALL A HOSPITAL CURTAIN. FOR GYP REF 13/A5-60. FOR ACT REF 9/A5-70
14. INSTALL NEW SPRINKLER HEADS.
15. INSTALL NEW 2' x 2' ACT. ALL MATERIAL IN SUSPENDED ACT CEILING TO BE NON-FERROUS IN PROCEDURE ROOM.
16. INSTALL PERIMITER LIGHT REF ELECT DWGS & 14/A5-80
17. LIMIT OF NEW CLG.
18. 24" x 24" ACCESS PANEL IN THE SHEILDED CEILING.
19. MRI MACHINE OUTLINE BELOW.
20. OUTLINE OF CABLE TRAY BY GC ABOVE CEILING. SEE ELECTRICAL DRAWINGS E6-20 AND GE DRAWING E2.
21. NEW SPLIT SYSTEM INTERIOR UNIT.
22. NEW MRI IN-USE LIGHT WHICH READS "THE MAGNET IS ON" WHILE MRI IS IN USE.
23. REPLACE DAMAGED CEILING GRID AND TILE TO MATCH EXISTING.
24. NEW CEILING EXPANSION JOINT SEE DETAIL 10/A5-70.
25. WALL MOUNTED TELEVISION. PROVIDE POWER AND DATA.
26. MAGNET CURTAIN KIT INSTALLED BY GE. CONTRACTOR TO PROVIDE ACT FRAMING AROUND KIT.
27. REINSTALL SALVAGED LIGHT PER ELECTRICAL DRAWINGS.

NOTE:

GC TO SUBMIT COORDINATION DRAWING BETWEEN STRUCTURAL FRAMING, MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION, FIRE ALARM, SHIELDING, AND GE BEFORE SHOP DRAWING APPROVALS.

GC TO CLARIFY IN BID DOCUMENTS HOW COORDINATION DRAWINGS WILL BE PRODUCED.

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REN. 1-31-23
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6	ACD 0001 DESIGN CHANGES	4/10/2021
7	ACD 0001 DESIGN CHANGES	5/8/2021

CONSULTANT

OSHPD APPROVAL STAMP:

OSHPD #: S200813-37-00-ACD0001

SHEET TITLE:

1/4" PARTIAL RCP

PROJECT TITLE:

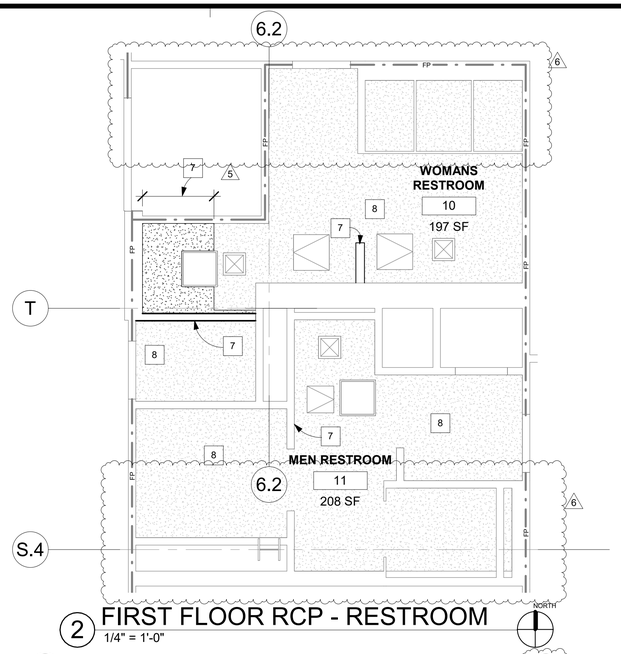
TCMC MRI

PROJECT #: 01907.01
DRAWN BY: Author
CHECKED BY: Checker
SCALE: PER TITLE
DATE: 3/11/2020

SHEET NUMBER:

A4-30

100% - CONSTRUCTION DOCUMENTS



2 FIRST FLOOR RCP - RESTROOM
1/4" = 1'-0"

MATERIAL LEGEND:

- 2' X 2' ACOUSTICAL CEILING TILE WITH TEGULAR EDGE
- SUSPENDED GYP. BOARD CEILING
- 2X4 RECESSED LAY-IN LED LIGHT FIXTURE PROVIDE (2) SLACK SAFETY WIRES AT DIAGONAL CORNERS
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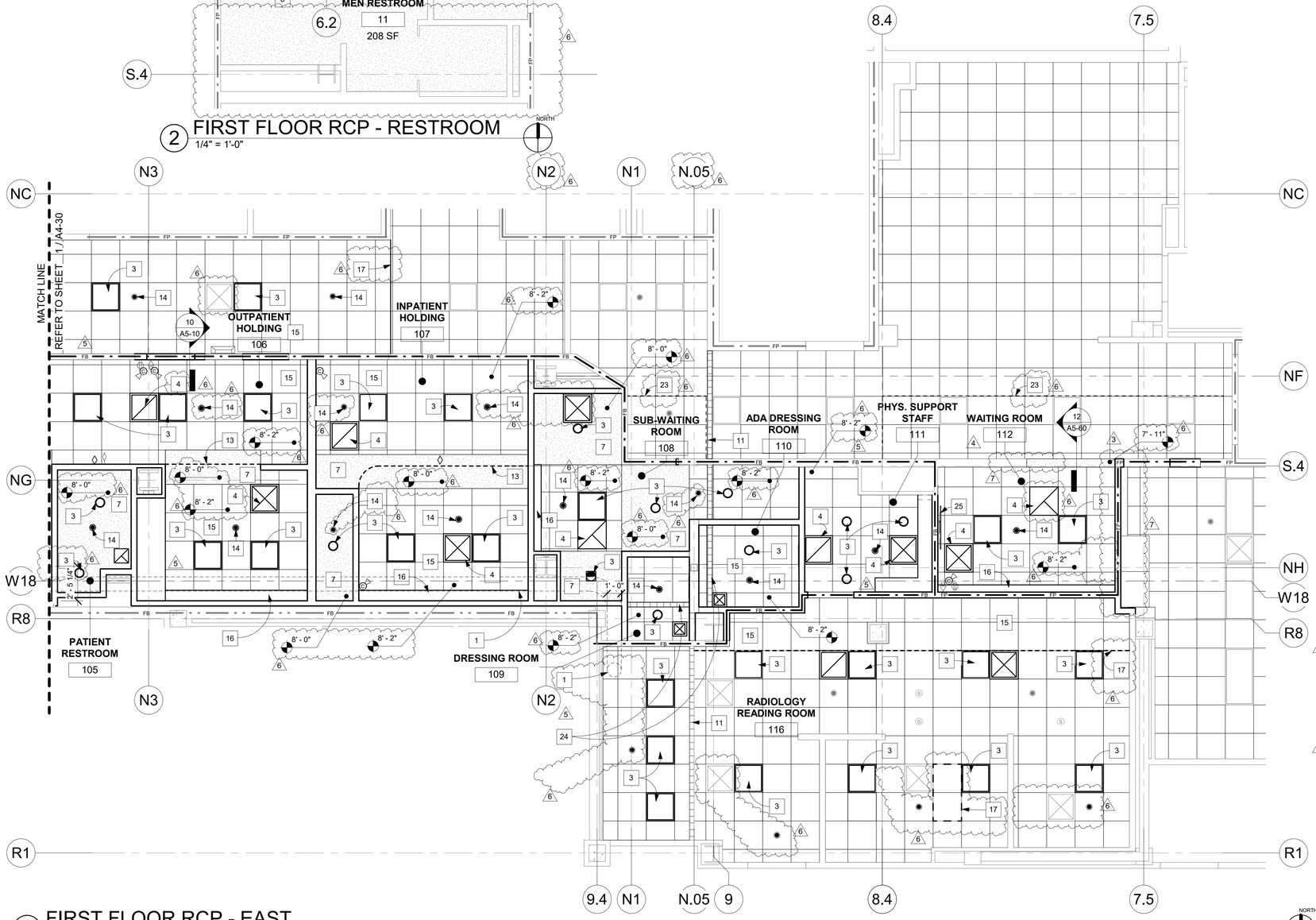

1 FIRST FLOOR RCP - EAST
1/4" = 1'-0"

GENERAL NOTES:

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CONSULTANT

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PROJECT TITLE:

TCMC MRI

PROJECT #: 01907.01
DRAWN BY: Author
CHECKED BY: Checker
SCALE: PER TITLE
DATE: 3/11/2020

SHEET NUMBER:

A4-31

100% - CONSTRUCTION DOCUMENTS

ELEVATION KEYNOTES:

1. GWB SOFFIT CEILING.
2. ACT CEILING TILE
3. BASE BOARD TYP.
4. MRI EQUIPMENT. TYP.
5. WALL TILE. MATCH EXISTING.
6. MAGNET SHUT DOWN BUTTON. ANCHOR INTO BACKING PLATE PER 10/S1-2.
7. CRASH RAIL, TYP.
8. NEW CASEWORK/COUNTERTOP. SEE SHEET A5-80 FOR DETAILS.
9. MEDICAL GAS LINES. SEE PLUMBING DWGS.
10. OBSERVATION WINDOW.
11. EQUIPMENT. TRANSFER CABINET.
12. PERIMITER LIGHTING.
13. TOILET PAPER DISPENSER
14. SOAP DISPENSER.
15. PAPER TOWEL DISPENSER.
16. 1 1/2" ADA GRAB BARS ANCHORED INTO BOBRICK FASTENING PLATE SHOWN ON 10/A5-80. ANCHORED INTO BACKING PLATE PER 10/S1-2.
17. MIRROR.
18. SEAT COVER DISPENSER.
19. CORNER GUARD.
20. SHERIFF LOCKER. SEE DETAIL 4/A5-80.
21. LOCKERS / VALUABLE STORAGE. SEE DETAIL 4/A5-80.
22. CHAIR RAIL. TYP.
23. CUSTOM WOOD BENCH.
24. TV. MOUNTED TO THE WALL WITH BACKING PLATE PER STRUCTUAL DETAIL 10/S1-2.
25. REINSTALL EXG. TOILET ROOM ACCESSORY.
26. NEW BATHROOM FIXTURE.
27. NON-FERROUS WALL CABLE TRAY.
28. ETR. WALL SCONCES
29. ETR WALL ART. PROTECT DURING CONSTRUCTION.
30. QUENCH VENT DUCTING PATH BEHIND SHAFT WALL. CONDENSATE AND CHILLER PIPES BEHIND THE WALL.
31. HAND WAVE READER DOOR OPERATOR.
32. NEW WALL PER PLAN.
33. RELOCATE WALL MOUNTED FIRE ALARM.
34. WALL SCONCES TO BE REMOVED AND REINSTALLED.
35. PATIENT BED SLIDE.
36. MRI WARNING / ZONE SIGNAGE PER DETAIL 9/A6-00.
37. ROOM NAME & NUMBER SIGN.
38. PROVIDE A LOCK.
39. NURSE CALL DEVICE. REF. SHEET NC-000.
40. CABLE TRAY. SIDE BY SIDE.
41. HAND WAVE READER DOOR OPERATOR.
42. EXG. EXPANSION JOINT TO REMAIN. TRIM EVEN WITH BOTTOM OF SOFFFIT.
43. FRICTION FIT AND CAULK IN PLACE 1" HI-DENSITY FOAM INSIDE EXPANSION JOINT CAVITY.
44. EXHAUST FAN MANUAL SWITCH.
45. SLIDE TRANSFER WITH WALL RACK ANCHORED WITH (2) #10 SMS INTO BACKING PLATE PER DETAIL 10/S1-2.
46. NEW 24" x 18" 1 HOUR RATED ACCESS PANEL.
47. NEW LED LIGHTS.
48. NEW MOISTURE RESISTANT GYPSUM WALL BOARD.
49. PRIME AND PAINT PARTITION IN ITS ENTIRITY.
50. BACKSPLASH.
51. ETR ELECTRICAL PANELS.
52. WALL PROTECTION
53. CONCRETE FLOOR ABOVE.
54. LINE OF REMOVABLE AREA AT NEW DOOR.
55. MRI RATED FIRE EXTINGUISHER.
56. ADD EXPANSION JOINT COVER AFW-200 BY CONSTRUCTION SPECIALTIES. OVERALL DIMENSION 7".
57. REINSTALL SALVAGED BUMPER RAIL. TYP.

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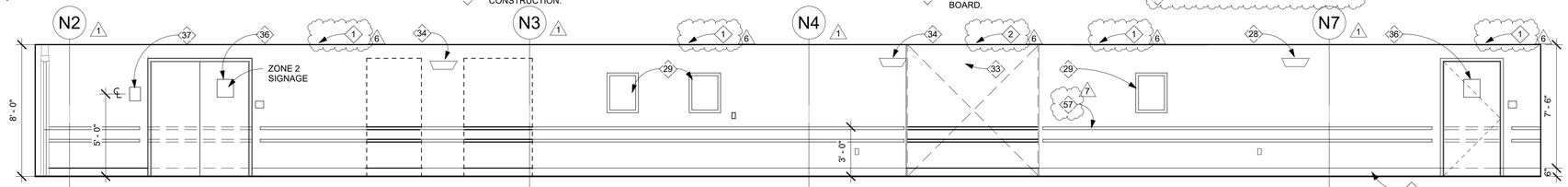
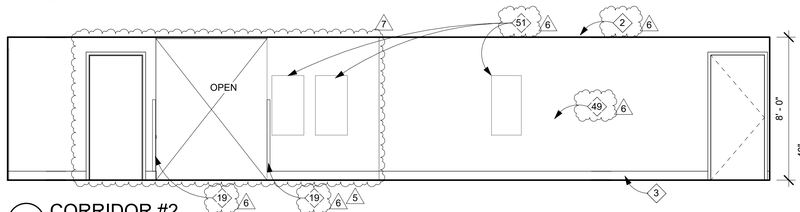
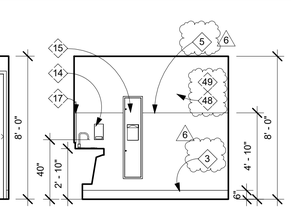
10. SECURE ALL ENDS OF COUNTER TOPS TO EXISTING PARTITIONS.



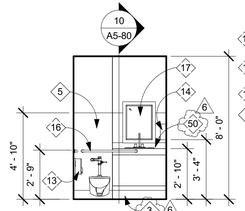
21 CORRIDOR #1
1/4" = 1'-0"



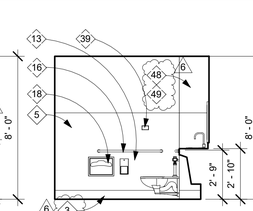
20 CORRIDOR #2
1/4" = 1'-0"



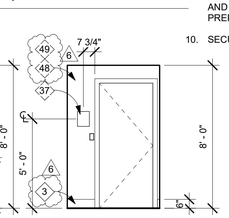
19 MRI TOILET - W.
1/4" = 1'-0"



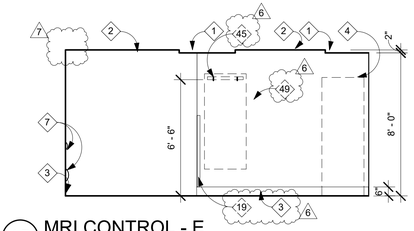
18 MRI TOILET - S.
1/4" = 1'-0"



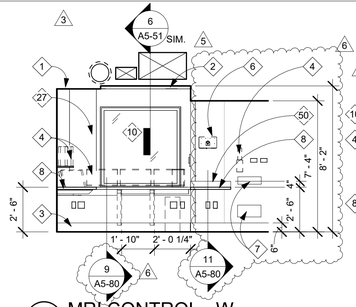
17 MRI TOILET - E.
1/4" = 1'-0"



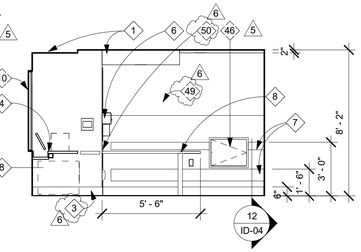
16 MRI TOILET - N
1/4" = 1'-0"



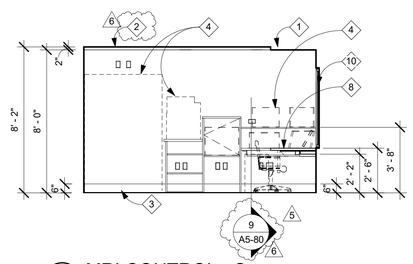
15 MRI CONTROL - E
1/4" = 1'-0"



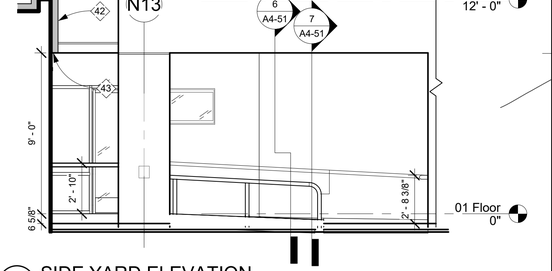
14 MRI CONTROL - W
1/4" = 1'-0"



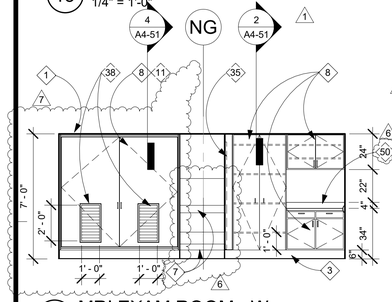
13 MRI CONTROL - N
1/4" = 1'-0"



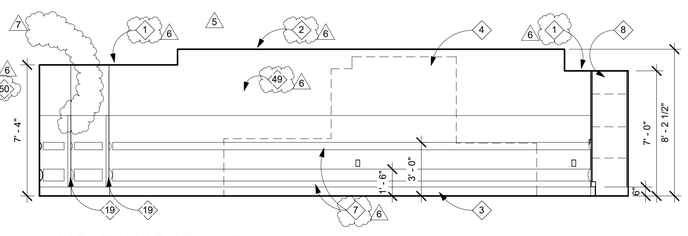
12 MRI CONTROL - S
1/4" = 1'-0"



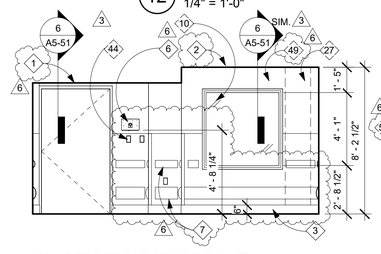
11 SIDE YARD ELEVATION
1/4" = 1'-0"



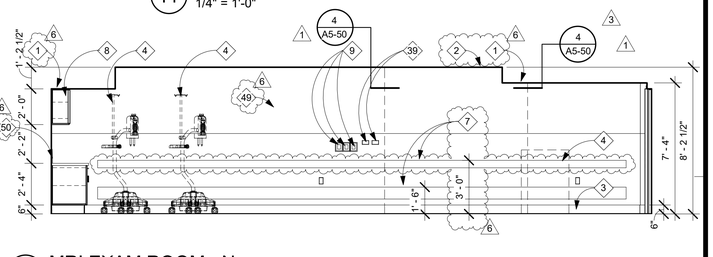
10 MRI EXAM ROOM - W
1/4" = 1'-0"



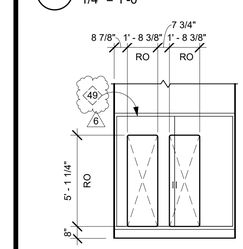
9 MRI EXAM ROOM - S
1/4" = 1'-0"



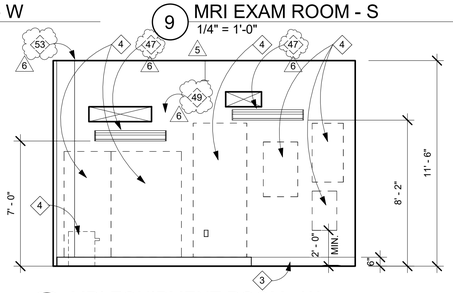
8 MRI EXAM ROOM - E
1/4" = 1'-0"



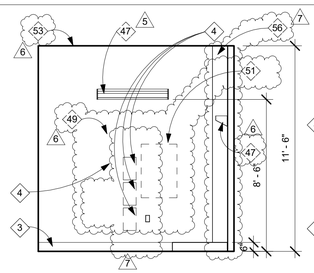
7 MRI EXAM ROOM - N
1/4" = 1'-0"



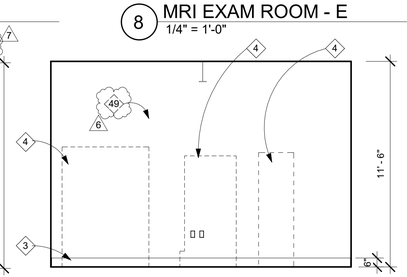
10a "PEN" CLOSET
1/4" = 1'-0"



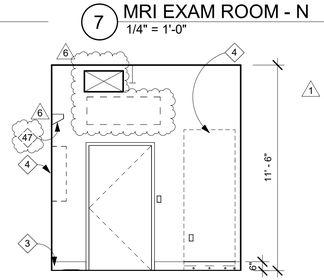
6 MRI EQUIPMENT ROOM - W
1/4" = 1'-0"



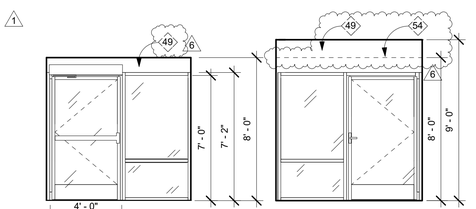
5 MRI EQUIPMENT ROOM - S
1/4" = 1'-0"



4 MRI EQUIPMENT ROOM - E
1/4" = 1'-0"



3 MRI EQUIPMENT ROOM - N
1/4" = 1'-0"



2 ENTRY INTERIOR
1/4" = 1'-0"

1 ENTRY EXTERIOR
1/4" = 1'-0"

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F: 619-299-5084
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TCMC MRI

Tri-City Medical Center

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OCEANSIDE CA, 92056

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ELECTRICAL:	AG DESIGN, INC. 171 S. ANITA DR. SUITE 111 ORANGE, CALIFRONIA 92868 TEL(714)769-9900 EXT. 201
SHIELDING:	MRI SHIELDING CORPORATION 3554 BUISNESS PARK DR., SUITE B COSTA MESA, CA 92626 TEL(714)545-7700
INTERIORS:	ISLEY DESIGN & PLANNING 1982 PALSERO AVENUE ESCONDIDO, CA 92029 TEL(760)484-0455

LICENSED ARCHITECT
JOSEPH MICHAEL SEIER
No. C 28543
REN. 1-31-23
STATE OF CALIFORNIA

1	1	OSHPD COMMENTS	8/3/2020
2	2	DESIGN CHANGES	8/10/2020
3	3	OSHPD COMMENTS	10/2/2020
4	4	OSHPD COMMENTS	11/24/2020
5	5	DESIGN CHANGES	11/24/2020
6	6	ACD 0001 DESIGN CHANGES	4/10/2021
7	7	ACD 0001 DESIGN CHANGES	5/8/2021

REV: DESCRIPTION: DATE:

CONSULTANT

OSHPD APPROVAL STAMP:

OSHPD #: S200813-37-00-ACD0001

SHEET TITLE:

1/4" INTERIOR ELEVATIONS

PROJECT TITLE:

TCMC MRI

PROJECT #: 01907.01
DRAWN BY: Author
CHECKED BY: Checker
SCALE: PER TITLE
DATE: 3/11/2020

SHEET NUMBER:

A4-40

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ELEVATION KEYNOTES:

1. GWB SOFFIT CEILING.
2. ACT CEILING TILE
3. BASE BOARD TYP.
4. MRI EQUIPMENT. TYP.
5. WALL TILE. MATCH EXISTING.
6. MAGNET SHUT DOWN BUTTON. ANCHOR INTO BACKING PLATE PER 10/S1-2.
7. CRASH RAIL, TYP.
8. NEW CASEWORK/COUNTERTOP. SEE SHEET A5-80 FOR DETAILS.
9. MEDICAL GAS LINES, SEE PLUMBING DWGS.
10. OBSERVATION WINDOW.
11. EQUIPMENT. TRANSFER CABINET.
12. PERIMITER LIGHTING.
13. TOILET PAPER DISPENSER
14. SOAP DISPENSER.
15. PAPER TOWEL DISPENSER.
16. 1 1/2" ADA GRAB BARS ANCHORED INTO BOBRICK FASTENING PLATE SHOWN ON 10/A5-80, ANCHORED INTO BACKING PLATE PER 10/S1-2.
17. MIRROR.
18. SEAT COVER DISPENSER.
19. CORNER GUARD.
20. SHERIFF LOCKER. SEE DETAIL 4/A5-80.
21. LOCKERS / VALUABLE STORAGE. SEE DETAIL 4/A5-80.
22. CHAIR RAIL. TYP.
23. CUSTOM WOOD BENCH.
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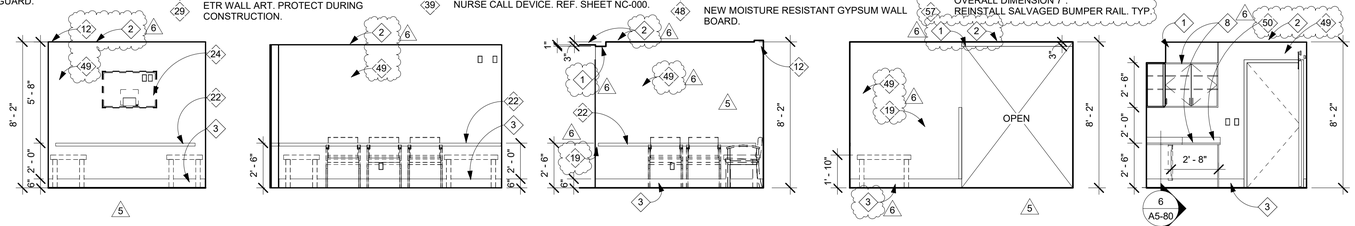
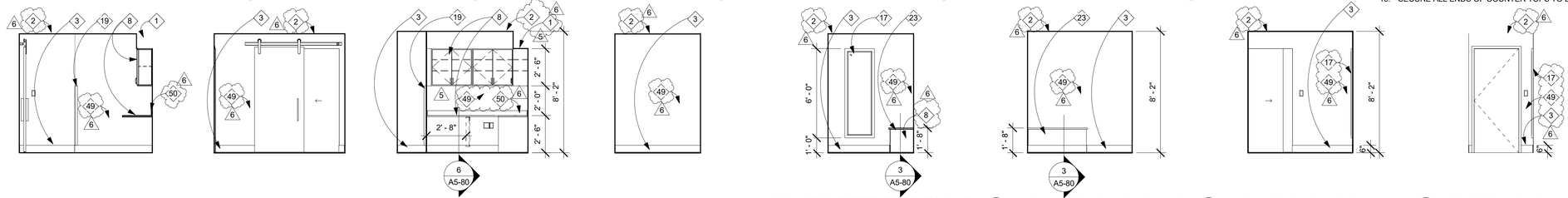
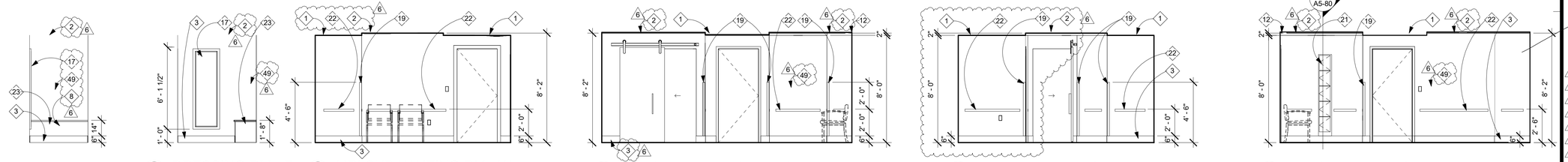


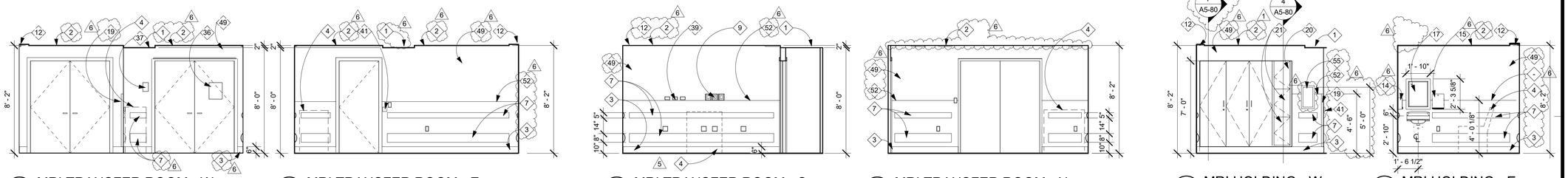
31 MRI WAITING ROOM - W 1/4" = 1'-0"
30 MRI WAITING RM - S 1/4" = 1'-0"
29 MRI WAITING RM - E 1/4" = 1'-0"
28 MRI WAITING ROOM - N 1/4" = 1'-0"
27 MRI OFFICE - S 1/4" = 1'-0"



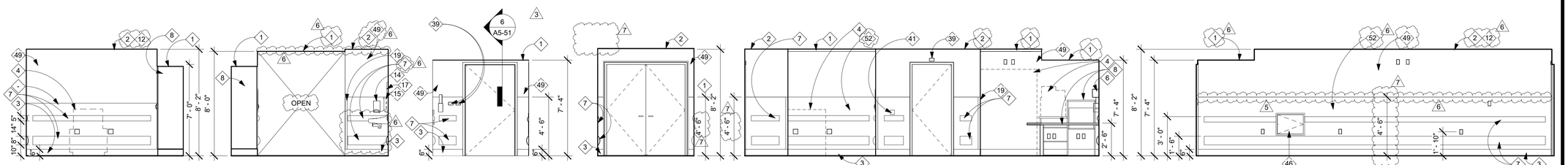
26 MRI OFFICE - N. 1/4" = 1'-0"
25 MRI OFFICE - W 1/4" = 1'-0"
24 MRI OFFICE - E 1/4" = 1'-0"
23 ADA DRESSING RM - W 1/4" = 1'-0"
22 ADA DRESSING RM - E 1/4" = 1'-0"
21 ADA DRESSING RM - S 1/4" = 1'-0"
20 ADA DRESSING RM - N 1/4" = 1'-0"
19 DRESSING RM - N 1/4" = 1'-0"



18 DRESSING RM - S 1/4" = 1'-0"
17 DRESSING RM - E 1/4" = 1'-0"
16 MRI SUB-WAITING RM - W. 1/4" = 1'-0"
15 MRI SUB-WAITING RM - S. 1/4" = 1'-0"
14 MRI SUB-WAITING RM - E. 1/4" = 1'-0"
13 MRI SUB-WAITING RM. - N. 1/4" = 1'-0"



12 MRI TRANSFER ROOM - W 1/4" = 1'-0"
11 MRI TRANSFER ROOM - E 1/4" = 1'-0"
10 MRI TRANSFER ROOM - S 1/4" = 1'-0"
9 MRI TRANSFER ROOM - N 1/4" = 1'-0"
8 MRI HOLDING - W 1/4" = 1'-0"
7 MRI HOLDING - E 1/4" = 1'-0"



6 MRI HOLDING - S 1/4" = 1'-0"
5 MRI HOLDING - N 1/4" = 1'-0"
4 MRI CTR/HLD - W 1/4" = 1'-0"
3 MRI CTR/HLD - E 1/4" = 1'-0"
2 MRI CONTROL/HOLDING - S 1/4" = 1'-0"
1 MRI CONTROL/HOLDING - N. 1/4" = 1'-0"

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INTERIORS:	ISLEY DESIGN & PLANNING 1982 PALSERO AVENUE ESCONDIDO, CA 92029 TEL(760)484-0455

LICENSED ARCHITECT
JOSEPH MICHAEL SFEIR
No. C 28543
REN. 1-31-23
STATE OF CALIFORNIA

REV:	DESCRIPTION:	DATE:
1	OSHPD COMMENTS	8/3/2020
2	DESIGN CHANGES	8/10/2020
3	OSHPD COMMENTS	10/2/2020
4	OSHPD COMMENTS	11/24/2020
5	DESIGN CHANGES	11/24/2020
6	ACD 0001 DESIGN CHANGES	4/10/2021
7	ACD 0001 DESIGN CHANGES	5/8/2021

CONSULTANT

OSHPD APPROVAL STAMP:

OSHPD #: S200813-37-00-ACD0001

SHEET TITLE:

1/4" INTERIOR ELEVATIONS

PROJECT TITLE:

TCMC MRI

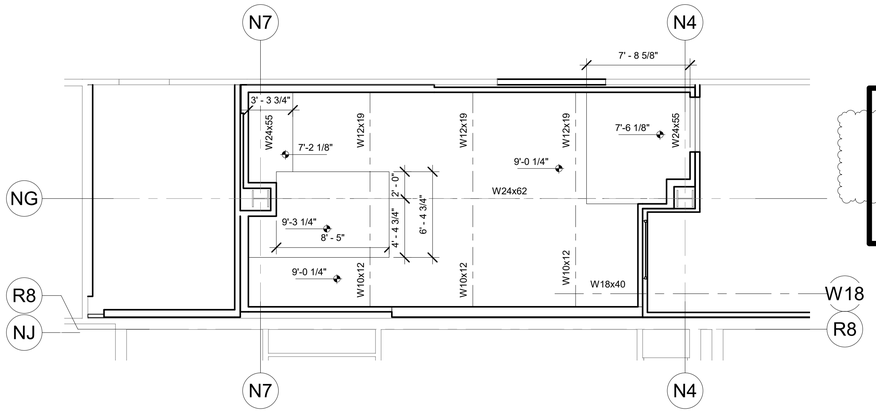
PROJECT #:	01907.01
DRAWN BY:	Author
CHECKED BY:	Checker
SCALE	PER TITLE
DATE:	3/11/2020

SHEET NUMBER:

A4-41

ELEVATION KEYNOTES:

1. GWB SOFFIT CEILING.
2. ACT CEILING TILE
3. BASE BOARD TYP.
4. MRI EQUIPMENT. TYP.
5. WALL TILE. MATCH EXISTING.
6. MAGNET SHUT DOWN BUTTON. ANCHOR INTO BACKING PLATE PER 10/S1-2. (5)
7. CRASH RAIL, TYP. (2)
8. NEW CASEWORK/COUNTERTOP. SEE SHEET A5-80 FOR DETAILS.
9. MEDICAL GAS LINES. SEE PLUMBING DWGS.
10. OBSERVATION WINDOW. (6)
11. EQUIPMENT. TRANSFER CABINET.
12. PERIMITER LIGHTING.
13. TOILET PAPER DISPENSER
14. SOAP DISPENSER.
15. PAPER TOWEL DISPENSER.
16. 1 1/2" ADA GRAB BARS ANCHORED INTO BOBRICK FASTENING PLATE SHOWN ON 10/A5-80, ANCHORED INTO BACKING PLATE PER 10/S1-2. (3)
17. MIRROR.
18. SEAT COVER DISPENSER.
19. CORNER GUARD.
20. SHERIFF LOCKER. SEE DETAIL 4/A5-80. (1)
21. LOCKERS / VALUABLE STORAGE. SEE DETAIL 4/A5-80. (1)
22. CHAIR RAIL. TYP.
23. CUSTOM WOOD BENCH. (1)
24. TV. MOUNTED TO THE WALL WITH BACKING PLATE PER STRUCTUAL DETAIL 10/S1-2.
25. REINSTALL EXG. TOILET ROOM ACCESSORY.
26. NEW BATHROOM FIXTURE.
27. NON-FERROUS WALL CABLE TRAY.
28. ETR. WALL SCONCES
29. ETR WALL ART. PROTECT DURING CONSTRUCTION.
30. QUENCH VENT DUCTING PATH BEHIND SHAFT WALL.
31. CONDENSATE AND CHILLER PIPES BEHIND THE WALL.
32. NEW WALL PER PLAN.
33. RELOCATE WALL MOUNTED FIRE ALARM.
34. WALL SCONCES TO BE REMOVED AND REINSTALLED.
35. PATIENT BED SLIDE.
36. MRI WARNING / ZONE SIGNAGE PER DETAIL 9/A6-00. (5)
37. ROOM NAME & NUMBER SIGN.
38. PROVIDE A LOCK.
39. NURSE CALL DEVICE. REF. SHEET NC-000.
40. CABLE TRAY. SIDE BY SIDE.
41. HAND WAVE READER DOOR OPERATOR.
42. EXG. EXPANSION JOINT TO REMAIN. TRIM EVEN WITH BOTTOM OF SOFFFIT.
43. FRICTION FIT AND CAULK IN PLACE 1" HI-DENSITY FOAM INSIDE EXPANSION JOINT CAVITY.
44. EXHAUST FAN MANUAL SWITCH.
45. SLIDE TRANSFER WITH WALL RACK ANCHORED WITH (2) #10 SMS INTO BACKING PLATE PER DETAIL 10/S1-2. (7)
46. NEW 24" x 18" 1 HOUR RATED ACCESS PANEL. (5)
47. NEW LED LIGHTS.
48. NEW MOISTURE RESISTANT GYPSUM WALL BOARD.
49. PRIME AND PAINT PARTITION IN ITS ENTIRITY. (5)
50. BACKSPLASH.
51. ETR ELECTRICAL PANELS. (6)
52. WALL PROTECTION
53. CONCRETE FLOOR ABOVE.
54. LINE OF REMOVABLE AREA AT NEW DOOR.
55. MRI RATED FIRE EXTINGUISHER.
56. ADD EXPANSION JOINT COVER AFW-200 BY CONSTRUCTION SPECIALTIES. OVERALL DIMENSION 7". REINSTALL SALVAGED BUMPER RAIL. TYP. (7)
57.

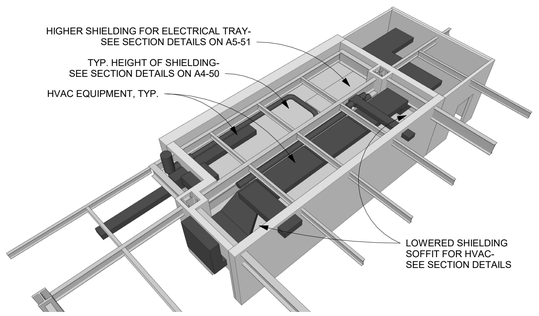


8 FIRST FLOOR SHIELDING RCP
3/16" = 1'-0"

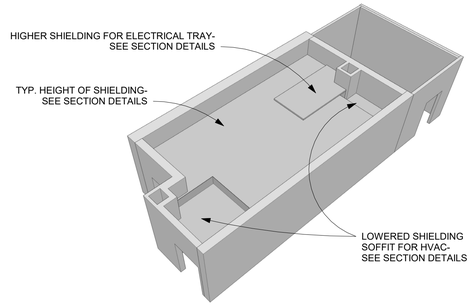
NOTE:

GC TO SUBMIT COORDINATION DRAWING BETWEEN STRUCTURAL FRAMING, MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION, FIRE ALARM, SHIELDING, AND GE BEFORE SHOP DRAWING APPROVALS.

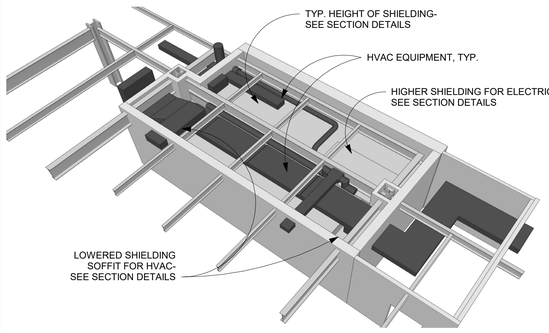
GC TO CLARIFY IN BID DOCUMENTS HOW COORDINATION DRAWINGS WILL BE PRODUCED. (6)



9 SHIELDING MASSING 1A
N.T.S.



10 SHIELDING MASSING 1B
N.T.S.



11 SHIELDING MASSING 2A
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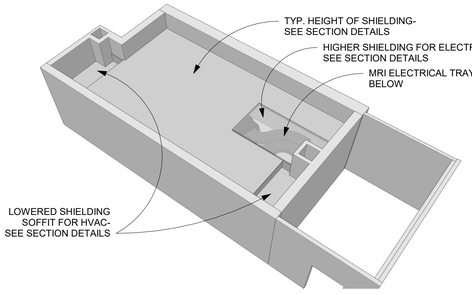

12 SHIELDING MASSING 2B
N.T.S.

GENERAL NOTES:

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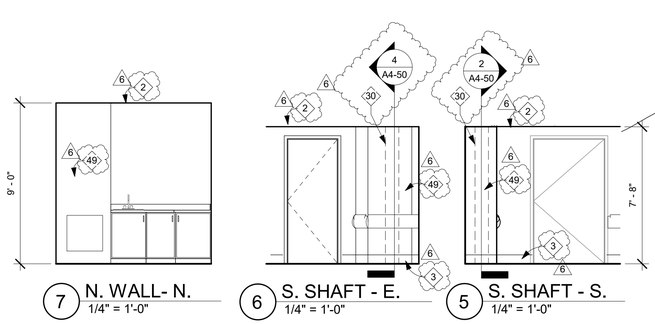
2. REFER TO GENERAL NOTES ON SHEET A0-00 FOR INFORMATION NOT INDICATED ON THIS SHEET.

CASEWORK GENERAL NOTES:

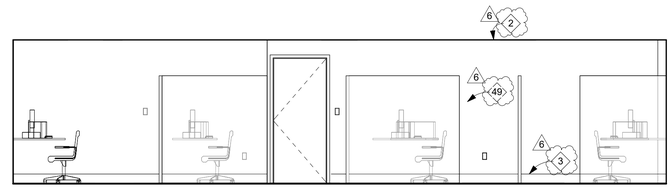
1. ALL CASEWORK SHALL BE "CUSTOM" GRADE AS DEFINED BY THE WOODWORK INSTITUTE. (6)
2. FINISH ALL EXPOSED AND SEMI-EXPOSED SURFACES OF CASEWORK INCLUDING THE INTERIOR OF OPEN CASEWORK AND SHELVING WITH PLASTIC LAMINATE. ALL COUNTERTOPS SHALL BE PLASTIC LAMINATE UNLESS NOTED OTHERWISE.
3. BASES ON CASEWORK SHALL BE 4" UNLESS OTHERWISE NOTED. PROVIDE SAME FINISH BASE MATERIAL AS ADJACENT WALLS. EXTEND BASE TO WALL AT ALL CABINET RETURNS AND END PANELS.
4. IN CASES OF CABINET INSTALLATIONS BETWEEN WALLS, VERIFY DIMENSIONS IN FIELD AND PROVIDE FILLER PANEL STRIPS AT ENDS OR REDUCE END CABINETS WIDTH AS REQUIRED TO FIT SPACE AS INDICATED.
5. ALL CABINET DOORS AND DRAWERS SHALL HAVE PULLS. UPPER AND LOWER CABINET DOORS AND FULL HEIGHT CABINETS SHALL HAVE PULLS MOUNTED VERTICALLY. DRAWERS SHALL HAVE HORIZONTAL PULLS.
6. ALL FILE DRAWERS SHALL BE SIZED FOR 8 1/2"x 11" FORMS. PROVIDE FILE RODS EXTENDING FRONT TO BACK OF DRAWER UNIT. TYPICAL
7. COORDINATE HEIGHT AND LOCATION OF BACKING PLATES FOR CASEWORK WITH STUD FRAMING CONTRACTOR.
8. REFER TO DETAIL SHEET FOR WALL CABINET ANCHORAGE/BACKING TRACK CONNECTION.
9. GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS OF ROUGH OPENINGS AND COORDINATE W/OWNER FOR ALL EQUIPMENTS CLEARANCES PRIOR TO PREPARING SHOP DRAWINGS AND FABRICATION.
10. SECURE ALL ENDS OF COUNTER TOPS TO EXISTING PARTITIONS.



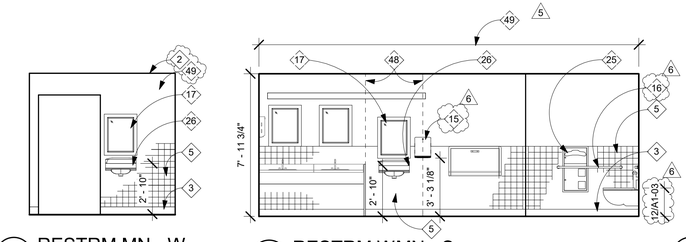
7 N. WALL- N.
1/4" = 1'-0"

6 S. SHAFT - E.
1/4" = 1'-0"

5 S. SHAFT - S.
1/4" = 1'-0"



4 VIEWING AREA - N.
1/4" = 1'-0"



3 RESTRM MN - W
1/4" = 1'-0"

2 RESTRM WMN - S
1/4" = 1'-0"

1 RESTRM WMN ADA - E
1/4" = 1'-0"

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A R C H I T E C T S

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REV: DESCRIPTION: DATE:

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OSHPD APPROVAL STAMP:

OSHPD #: S200813-37-00-ACD0001

SHEET TITLE:

1/4" INTERIOR ELEVATIONS

PROJECT TITLE:

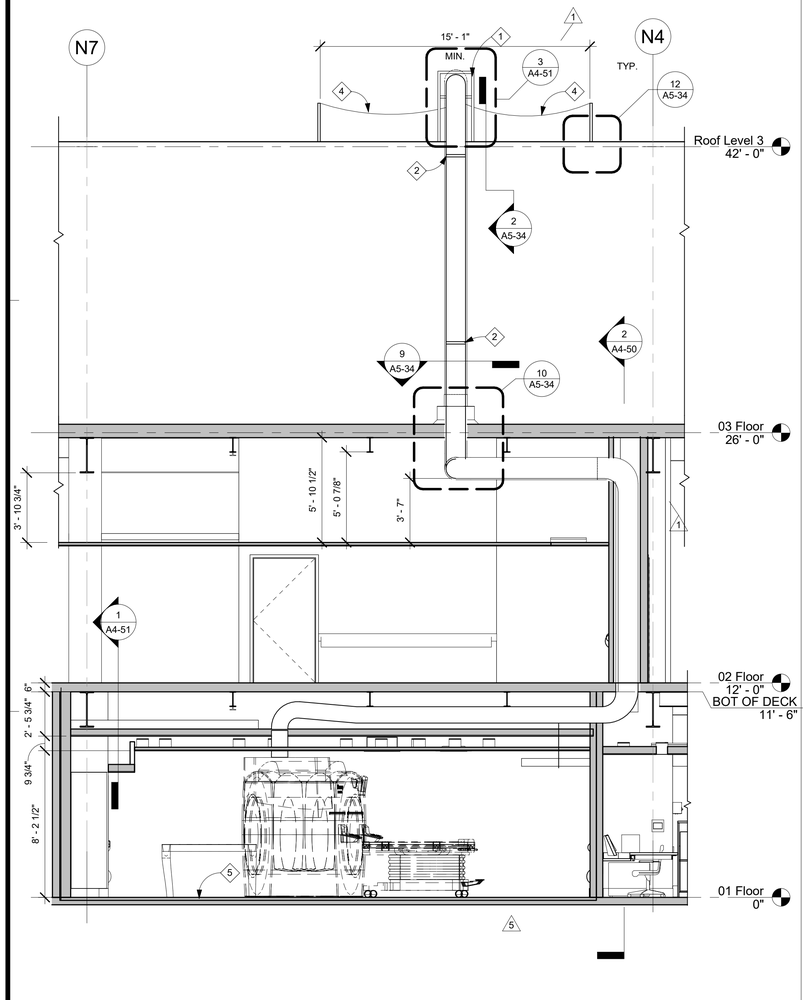
TCMC MRI

PROJECT #: 01907.01
DRAWN BY: WK
CHECKED BY: Checker
SCALE: PER TITLE
DATE: 3/11/2020

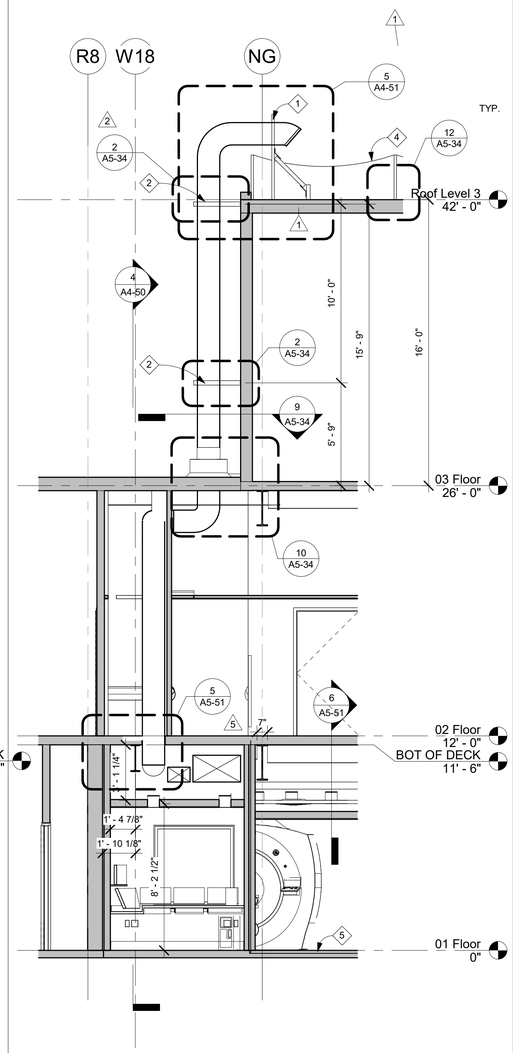
SHEET NUMBER:

A4-42

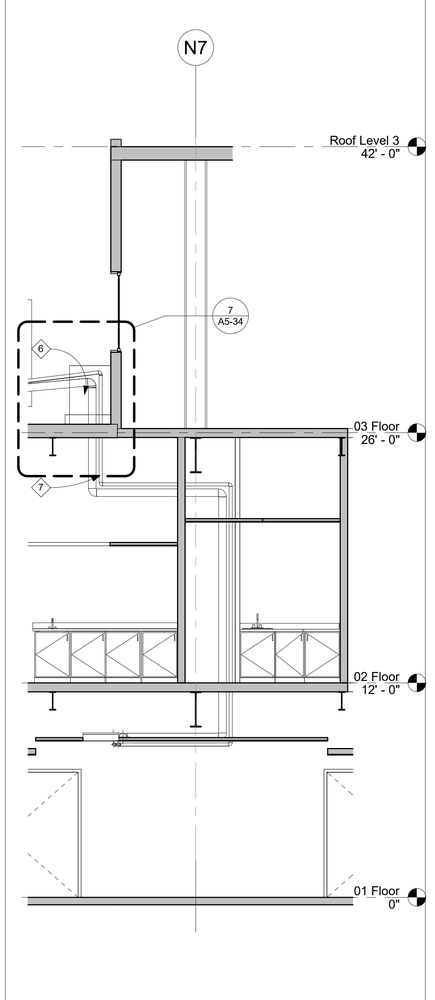
100% - CONSTRUCTION DOCUMENTS



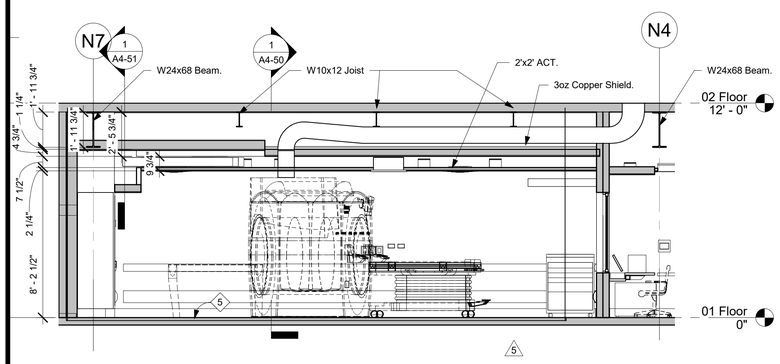
4 QUENCH VENT - N.
1/4" = 1'-0"



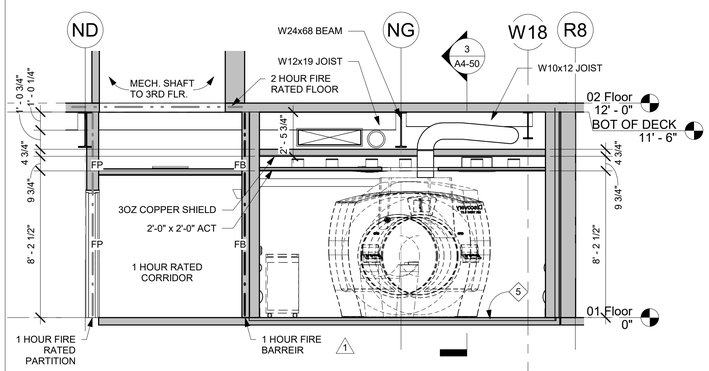
2 QUENCH VENT - W.
1/4" = 1'-0"



5 CONDENSATE CHILLER PATH
1/4" = 1'-0"



3 EXAM ROOM-EW-N
1/4" = 1'-0"



1 EXAM ROOM-NS-E
1/4" = 1'-0"

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2. ADD GALVANIZED STRAPPING.
3. GUY-WIRE BRACING.
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OSHPD #: S200813-37-00-ACD0001

SHEET TITLE:

SECTIONS

PROJECT TITLE:

TCMC MRI

PROJECT #: 01907.01
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CHECKED BY: Checker
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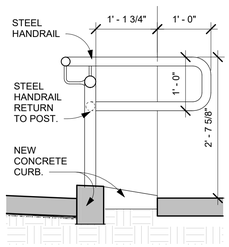
DATE: 3/11/2020

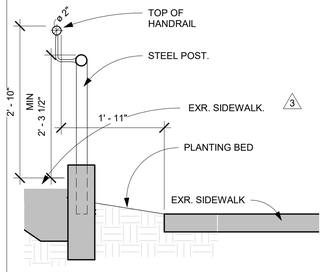
SHEET NUMBER:

A4-50

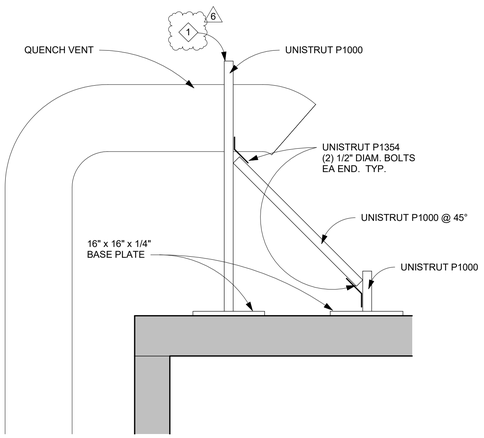
100% - CONSTRUCTION DOCUMENTS



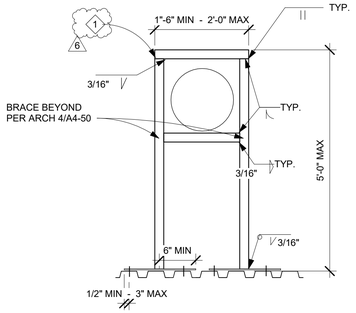
7 HANDRAIL RETURN
3/4" = 1'-0"



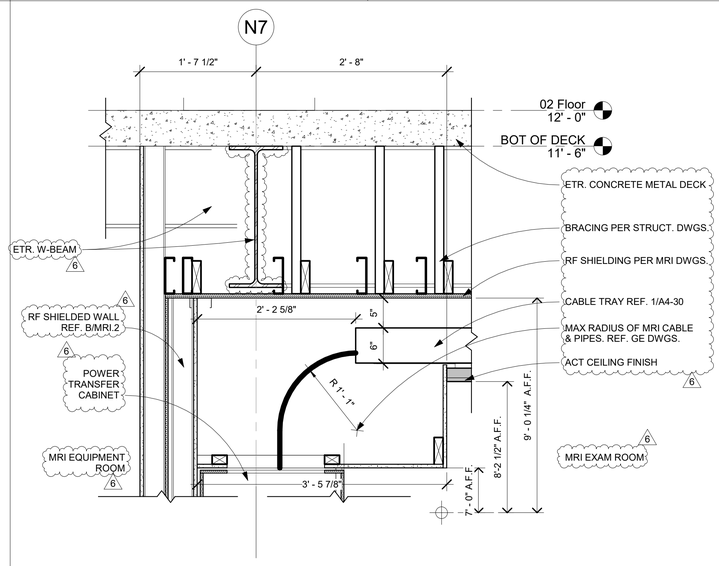
6 ACCESSIBLE HANDRAIL
3/4" = 1'-0"



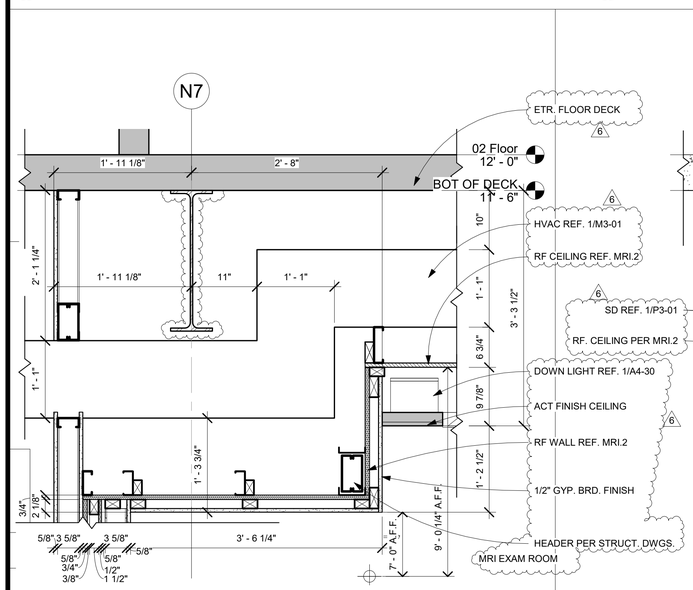
5 UNISTRUT FRONT SUPPORTS
3/4" = 1'-0"



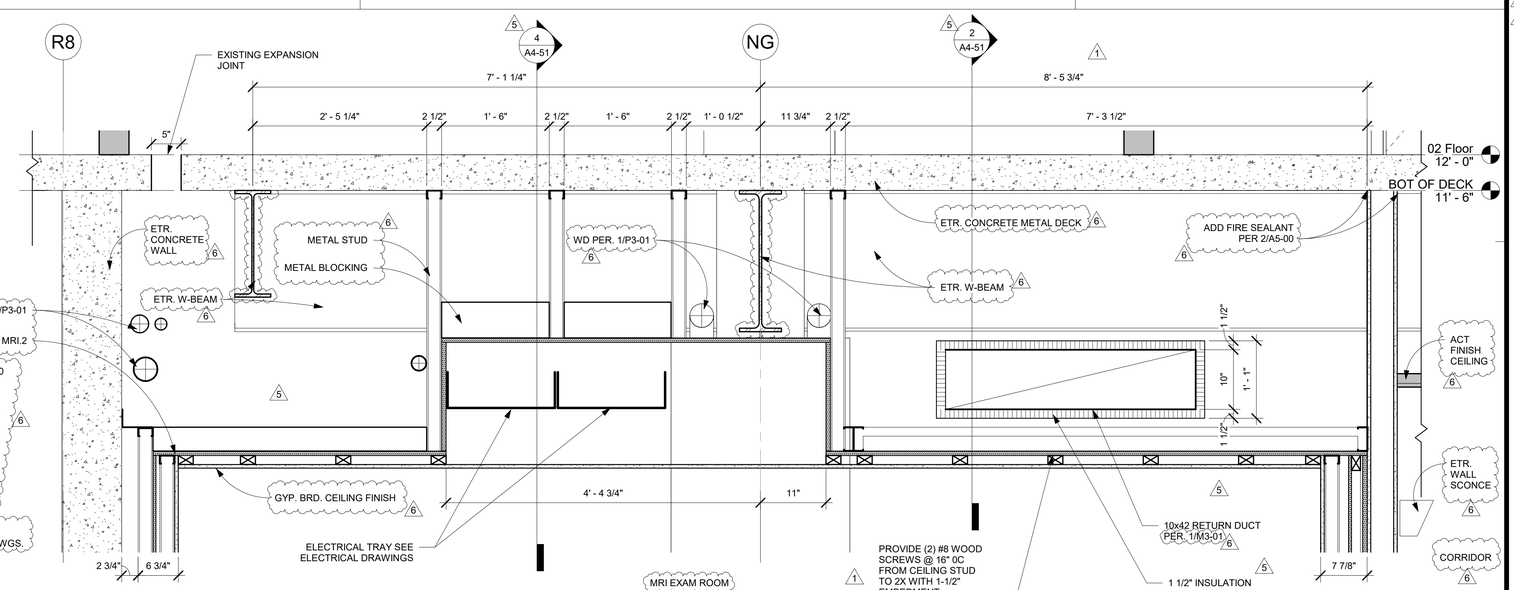
3 UNISTRUT FRAME
3/4" = 1'-0"



4 CABLE TRAY SIDE SECTION
1" = 1'-0"



2 RETURN AIR DUCT
1" = 1'-0"



1 ELEVATION - GRID LINE N7
1" = 1'-0"

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SHEET TITLE:
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TCMC MRI

PROJECT #: 01907.01
DRAWN BY: Author
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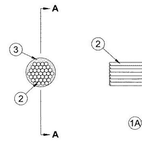
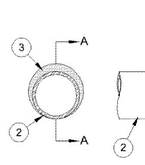
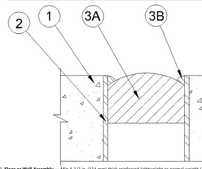
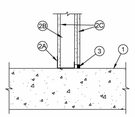
SHEET NUMBER:
A4-51

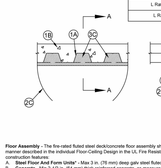
100% - CONSTRUCTION DOCUMENTS

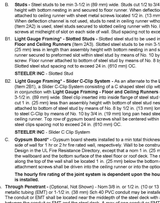












System No. W-L-3169

March 26, 2008

F Ratings — 1 and 2 Hr (See Item 1)
T Ratings — 1/4 and 3/4 Hr (See Item 2A)

1. **Wall Assembly —** The 1 or 2 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
   A. **Studs —** Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 3-5/8 in. (92 mm) wide and spaced max 24 in. (610 mm) OC.

   B. **Gypsum Board* —** Thickness, type, number of layers and fasteners as specified in the individual Wall and Partition Design. Max diam of opening is 5 in. (127 mm).

   The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.

2. **Cables —** Max 4-1/2 in. diam tight bundle of cables to be installed eccentrically or concentrically within the opening. The annular space between the cables and the periphery of the opening shall be min 0 in. (0 mm, point contact) to max 1/2 in. (13 mm). Cable bundle to be rigidly supported on both sides of the floor or wall assembly. The following types and sizes of cables may be used:
   A. Max 200 pair No. 24 AWG (or smaller) copper conductor with polyvinyl chloride (PVC) insulation and jacketing material.

   B. Max 1/C No. 350 kcmil (or smaller) copper conductor cable with cross-linked polyethylene (XLPE) jacket.

   C. Max 7/C No. 12 AWG (or smaller) copper conductor power and control cables with XLPE or PVC insulation with XLPE or PVC jacket.

   D. Max 3/C No. 2/0 AWG (or smaller) copper or aluminum conductor SER cables with PVC insulation and jacket.

   E. Max 3/C No. 2/0 AWG (or smaller) copper conductor PVC jacketed aluminum clad or steel clad TEK cable.

   F. Max 110/125 fiber optic (F.O.) cable with PVC insulation and jacket.

   G. Max 3/C with ground No. 8 AWG (or smaller) copper conductor NM cable (Romex) with PVC insulation and jacket.

   H. Max RG/U coaxial cable with fluorinated ethylene insulation and jacket.

   I. Max 4 pair No. 24 AWG (or smaller) copper conductor data cable with Hylar jacket and insulation.

   J. Max 4/C (with ground) No. 300 kcmil (or smaller) aluminum conductor SER cables with PVC insulation and jacket.

2A. **Through Penetrating Product* —** As an alternate to the cables (Item 2), max 4 in. (102 mm) diam tight bundle of max 4/C No. 2/0 AWG (or smaller) aluminum or steel **Armored Cable+** or **Metal Clad Cable+** installed within the opening. Annular space between through-penetrating products and periphery of opening to be min 0 in. (0 mm, point contact) to max 1 in. (25 mm). Through penetrating product rigidly supported on both sides of floor or wall assembly. **When Armored Cable or Metal Clad Cable is used, T Rating is 1/4 hr.**
AFC CABLE SYSTEMS INC

3. **Fill, Void or Cavity Material* — Sealant —** Min 5/8 in. (16 mm) thickness of fill material applied within annulus, flush with both surfaces of wall assembly. Sealant to be forced into interstices of cable bundle to max extent possible. At point contact location, min 1/4 in. (6 mm) diam bead of fill material applied at cable bundle/gypsum board interface on both surfaces of wall.
SPECIFIED TECHNOLOGIES INC — SpecSeal LCI Sealant

(C) UL-CABLES IN GYP
N.T.S.

System No. W-L-1049

December 20, 2013

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings - 1 and 2 Hr (See Item 1)	F Rating - 1 and 2 Hr (See Item 1)
T Rating - 0 Hr	FT Rating - 0 Hr
L Rating At Ambient - Less Than 1 CFM/sq ft	FH Rating - 1 and 2 Hr (See Item 1)
L Rating At 400 F - Less Than 1 CFM/sq ft	FTH Rating - 0 Hr
	L Rating At Ambient - Less Than 1 CFM/sq ft
	L Rating At 400 F - Less Than 1 CFM/sq ft

1. **Wall Assembly —** The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
   A. **Studs —** Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 3-5/8 3-1/2 in. (89 mm) wide and spaced max 24 in. (610 mm) OC. When steel studs are used and the diam of opening exceeds the width of stud cavity, the opening shall be framed on all sides using lengths of steel stud installed between the vertical studs and screw-attached to the steel studs at each end. The framed opening in the wall shall be 4 to 6 in. (102 to 152 mm) wider and 4 to 6 in. (102 to 152 mm) higher than the diam of the penetrating item such that, when the penetrating item is installed in the opening, a 2 to 3 in. (51 to 76 mm) clearance is present between the penetrating item and the framing on all four sides.

   B. **Gypsum Board* —** 5/8 in. (16 mm) thick, 4 ft (1.22 m) wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 26 in. (660 mm) for steel stud walls. Max diam of opening is 14-1/2 in. (368 mm) for wood stud walls.
   The hourly F and FH Ratings of the firestop system are equal to the hourly fire rating of the wall assembly in which it is installed.

1A. **Metallic Sleeve —** (Optional, Not Shown) - Cylindrical sleeve fabricated from min 0.016 in. (0.41 mm) to max 0.105 in. (2.7 mm) thick sheet steel. Length of steel sleeve to be equal to the thickness of wall. Longitudinal seam of sleeve welded or overlapped min 1 in. (25 mm). The ends of the steel sleeve shall be flush or recessed max 1/4 in. (6 mm) from wall surfaces.

2. **Through Penetrant —** One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. Pipe, conduit or tubing may be installed at an angle not greater than 45 degrees from perpendicular. The annular space between pipe, conduit or tubing and periphery of opening shall be min 0 in. (0 mm, point contact) to max 2 in. (51 mm). For maximum 16 in. (406 mm) diam (or smaller) pipes, annular space shall be min 0 in. (0 mm, point contact) to max 2 in. (51 mm). Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
   A. **Steel Pipe —** Nom 36 in. (914 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.

   B. **Iron Pipe —** Nom 36 in. (914 mm) diam (or smaller) cast or ductile iron pipe.

   C. **Conduit —** Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing, nom 6 in. (152 mm) diam (or smaller) steel conduit or nom 1 in. (25 mm) diam (or smaller) flexible steel conduit.

   D. **Copper Tubing —** Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing.

   E. **Copper Pipe —** Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.

3. **Fill, Void or Cavity Material* — Sealant —** Min 5/8 in. (16 mm) thickness of fill material applied within annulus, flush with both surfaces of wall. At the point contact location between through penetrant and gypsum board, a min 3/8 in. (10 mm) diam bead of fill material shall be applied at the gypsum board/through penetrant interface on both surfaces of wall.
SPECIFIED TECHNOLOGIES INC — SpecSeal Series SSS Sealant or SpecSeal LCI Sealant

(B) UL-CONDUIT & PIPE IN GYP
N.T.S.

System No. C-AJ-0097

December 29, 2011

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Rating — 2 Hr	F Rating — 2 Hr
T Ratings — 0 and 1/2 Hr (See Item 2)	FT Ratings — 0 and 1/2 Hr (See Item 2)
L Rating At Ambient - Less Than 1 CFM/sq ft	FH Rating — 2 Hr
L Rating At 400 F - Less Than 1 CFM/sq ft	FTH Ratings — 0 and 1/2 Hr (See Item 2)
	L Rating At Ambient - Less Than 1 CFM/sq ft
	L Rating At 400 F - Less Than 1 CFM/sq ft

1. **Floor or Wall Assembly —** Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m^3) concrete. Wall may also be constructed of any UL Classified **Concrete Blocks***. Diam of opening is nom 1-1/2, 2, 3 or 4 in. (38, 51, 76 or 102 mm).
   See **Concrete Blocks** (CAZT) category in the Fire Resistance Directory for names of manufacturers.

2. **Metallic Sleeve —** Nom 1-1/2, 2, 3 or 4 in. (38, 51, 76 or 102 mm) diam Schedule 5 (or heavier) steel pipe cast or grouted into floor or wall flush with floor or wall surfaces. Sleeve may extend max 2 in. (51 mm) above top surface of floor or both surfaces of wall. **When sleeve extends above top surface of floor or either surface of wall, the T, FT and FTH Ratings are 0 Hr. Sleeve is optional when CFS-PL Firestop Plug is used.**

3. **Firestop System —** The firestop system shall consist of the following:
   A. **Fill, Void or Cavity Materials* - Plug —** Nom 2, 2.5 or 4 in. (51, 63 or 102 mm) plug sized for the steel sleeve or opening per Table below friction-fitted within the sleeve or opening with edges recessed 1/2 in. (13 mm) from the top surface of the floor or from both surfaces of the wall.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP 658T Firestop Plug 2.5 or 4 in. or CFS-PL Firestop Plug 2 or 4 in.

Sleeve/Opening Diam in. (mm)	Nom Plug Size, in. (mm) CP 658T	CFS-PL
1-1/2 (38)	2.5 (63) **	2 (51) **
2 (51)	2.5 (63) **	2 (51)
3 (76)	4 (102) **	4 (102) **
4 (102)	4 (102)	4 (102)
** Cut wedge from plug to fit sleeve/opening size. See Hilti Installation Instructions for specific size of wedge cuts required.		

   B. **Fill, Void or Cavity Materials* - Putty —** Nom 1/2 in. (13 mm) diam bead of putty applied around periphery of opening at plug/sleeve interface.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP 618 Firestop Putty Stick

(5) UL C-AJ-0097
NTS

6

Classified by
Underwriters Laboratories, Inc.
to ANSI/UL 2079

System No. BW-S-0020

Assembly Ratings - 1 and 2 Hr (See Item 2)
Joint Width - 1/2 In. Max
L Rating At Ambient - Less Than 1 CFM/Lin Ft
L Rating At 400 F - Less Than 1 CFM/Lin Ft

1. **Floor Assembly -** Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) structural concrete. Floor may also be constructed of any min 6 in. (152 mm) thick UL Classified hollow-core **Precast Concrete Units***.
   See **Precast Concrete Units** (CFTV) category in the Fire Resistance Directory for names of manufactures.
2. **Wall Assembly -** The 1 or 2 hr fire rated gypsum board/steel stud shaft wall assembly shall be constructed of the materials and in the manner specified in the individual U400 or V400 Series Wall and Partition Design in the UL Fire Resistance Directory. In addition, the wall may incorporate a head-of-wall joint system constructed as specified in the HW Series Joint Systems in the UL Fire Resistance Directory. The wall shall include the following construction features:
   A. **Steel Floor Runner -** "J"-shaped runners, min 2-1/2 in. (64 mm) deep, with unequal legs of 1 in. (25 mm) and 2 in. (51 mm), fabricated from min 24 MSG galv steel. Runners positioned with short leg toward finished side of wall. Runners attached to structural supports with steel fasteners located not greater than 2 in. (51 mm) from ends and not greater than 24 in. (610 mm) OC.
   B. **Studs -** "C-H", "E" (back-to-back) or "C-T"-shaped studs, min 2-1/2 in. (64 mm) deep, fabricated from min 25 MSG galv steel. Cut to lengths 3/8 to 1/2 in. (10 to 13 mm) less than floor-to-ceiling height and spaced 24 in. (610 mm) OC.
   C. **Gypsum Board* -** 1 in. (25 mm) thick gypsum liner panels and 1/2 in., 5/8 in. or 3/4 in. (13, 16 or 19 mm) thick gypsum panels installed as specified in the individual U400 or V400 Series shaft wall designs in the UL Fire Resistance Directory.
   The hourly fire rating of the joint system is equal to the hourly fire rating of the wall.
3. **Fill, Void or Cavity Material* - Sealant -** Max separation between top of floor and bottom of gypsum board on the finish side of wall is 1/2 in. (13 mm). Min 1/2 in. (13 mm) thickness of fill material installed on finish side of the wall between the bottom of the gypsum board and the top of the concrete floor, flush with surface of the finish side of wall.
   SPECIFIED TECHNOLOGIES INC - SpecSeal ES Sealant, SpecSeal LCI Sealant, SpecSeal LC150 Sealant, Pensil 300 Sealant or SpecSeal Series SIL300 Silicone Firestop Sealant
   * Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

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BW-S-0020
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(3) STI System No. BW-S-0020
NTS

JBK

ENGINEERING JUDGMENT FIRESTOP DETAIL

Drawing No. NS06920027 Rev. -C

F Rating - 2 HR
L Rating at Ambient - 5 cfm/sq ft or less
L Rating at 400° F - 5 cfm/sq ft or less

1. **Floor Assembly (2 Hr) -** Min 4-1/2" thick concrete floor over metal deck (max 3" deep flutes) floor assembly.
2. **Penetrant -** Min 22 GA 12" diam (or smaller) stainless steel 304 duct. Duct to be protected with max 1-1/2" thick UL Classified duct wrap material classified in accordance with HNKT for grease duct assemblies or HNLJ for ventilation duct assemblies, capable of achieving a 2 Hr fire rating installed per manufacturer's requirements. Duct wrap butted tight to top surface of floor. Annular space is nom 1/2".
3. **Packing Material -** Min 4 pcf density mineral wool batt insulation tightly packed and installed within annular space to a min 4" depth, recessed from top surface of floor to accommodate for the required depth of sealant.
4. **Sealant -** SpecSeal® SIL300 Sealant applied to completely cover mineral wool to a min 1/2" depth, flush with top surface of floor.

THIS DESIGN REPRESENTS A FIRESTOP SYSTEM EXPECTED TO PASS THE STATED RATINGS IF TESTED

Project: TCMC MRI		Signature: J. Potts, CFPS	System Reference: C-AJ-7027, C-AJ-7030, C-AJ-7034
Project Address: Oceanside, CA 92056			
Designed by: Joe Potts			
Contractor/Architect: Sfeir Architects	Scale: N.T.S.	Date: 12/03/2020 PAGE 1 OF 1	Based on testing to ASTM E814/UL 1479: Standard for Fire Tests of Penetration Firestops

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1
4
3

(A) EJ-QUENCH VENT FLOOR
N.T.S.

Classified by
Underwriters Laboratories, Inc.
to ANSI/UL 2079 and CAN/ULC S115

System No. HW-D-0034

ANSI/UL2079	CAN/ULC S115
Assembly Ratings - 1 and 2 Hr (See Item 2)	F Ratings - 1 and 2 Hr (See Item 2)
Nominal Joint Width - 1 In.	FT Ratings - 1 and 2 Hr (See Item 2)
Class II Movement Capabilities - 7% or 25% Compression or Extension (See Items 1C, 1A-D)	FH Ratings - 1 and 2 Hr (See Item 2)
L Rating At Ambient - Less Than 1 CFM/sq ft	FTH Ratings - 1 and 2 Hr (See Item 2)
L Rating At 400 F - Less Than 1 CFM/sq ft	Nominal Joint Width - 1 In.
	Class II Movement Capabilities - 7% or 25% Compression or Extension (See Items 1C, 1A-D)
	L Rating At Ambient - Less Than 1 CFM/sq ft
	L Rating At 400 F - Less Than 1 CFM/sq ft

1. **Floor Assembly -** The fire-rated fluted steel deck/concrete floor assembly shall be constructed of the materials and in the manner described in the individual Floor-Ceiling Design in the UL Fire Resistance Directory and shall include the following construction features:
   A. **Steel Floor And Form Units* -** Max 3 in. (76 mm) deep galv steel fluted floor units.
   B. **Concrete -** Min 2-1/2 in. (64 mm) thick reinforced concrete, as measured from the top plane of the floor units.
   C. **Spray-Applied Fire Resistive Material* -** (Optional, Not Shown) - After installation of the ceiling runner (Item 2A) or deflection channel (Item 3A), steel floor units to be sprayed with a min 5/16 in. (8 mm) to max 11/16 in. (17 mm) thickness of material in accordance with the specifications in the individual D700 or D800 Series Design. When spray applied fire resistive material is used, ceiling runner or deflection channel to be provided with 2 in. (51 mm) flanges. Excess material to be scraped from flanges of ceiling runner or deflection channel prior to installation of gypsum board. **When Spray-Applied Fire Resistance Material is used, Class II Movement Capabilities restricted to COMPRESSION ONLY.**
   ISOLATEK INTERNATIONAL - Type 300
   GCP APPLIED TECHNOLOGIES INC - MK-6/HY

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HW-D-0034
PAGE 1 OF 4

1A. **Roof Assembly -** (Not Shown) - As an alternate to the floor assembly (Item 1), a fire rated fluted steel deck roof assembly may be used. The roof assembly shall be constructed of the materials and in the manner described in the individual P700, P800 or P900 Series Roof-Ceiling Design in the UL Fire Resistance Directory. The hourly fire rating of the roof assembly shall be equal to or greater than the hourly fire rating of the wall assembly. The roof assembly shall include the following construction features:
   A. **Steel Roof Deck -** Max 3 in. (76 mm) deep galv steel fluted roof deck.
   B. **Roof Insulation -** Min 2-1/4 in. (57 mm) thick poured insulating concrete, as measured from the top plane of the steel roof deck.
   C. **Roof Covering* -** Hot-mopped or cold-application materials compatible with insulating concrete.
   D. **Spray-Applied Fire Resistive Material* -** (Optional, Not Shown) - After installation of the ceiling runner (Item 2A) or deflection channel (Item 3A), steel floor units to be sprayed with a min 5/16 in. (8 mm) to max 11/16 in. (17 mm) thickness of material in accordance with the specifications in the individual P700 or P800 Series Design. When spray applied fire resistive material is used, ceiling runner or deflection channel to be provided with 2 in. (51 mm) flanges. Excess material to be scraped from flanges of ceiling runner or deflection channel prior to installation of gypsum board. **When Spray-Applied Fire Resistance Material is used, Class II Movement Capabilities restricted to COMPRESSION ONLY.**
   GCP APPLIED TECHNOLOGIES INC - MK-6/HY
   ISOLATEK INTERNATIONAL - Type 300

1B. **Floor Assembly -** (Not Shown) - As an alternate to the floor assembly (Item 1), min 4-1/2 in. (114 mm) thick structural concrete (100-150 pcf or 1600-2400 kg/m3) or min 6 in. (152 mm) thick hollow-core **Precast Concrete Units***.
   See **Precast Concrete Units** (CFTV) category in Fire Resistance Directory for names of manufacturers.

2. **Wall Assembly -** The 1 or 2 hr fire rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner described in the individual U400 or V400 Series Wall and Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
   A. **Steel Floor and Ceiling Runners -** Floor and ceiling runners of wall assembly shall consist of galv steel channels sized to accommodate steel studs. Ceiling runner to be provided with min 1-1/4 in. (32 mm) to max 2 in. (51 mm) flanges. When deflection channel (Item 3A) is used, flange height of ceiling runner is to be equal to or greater than flange height of deflection channel and the ceiling runner is to nest within the deflection channel with a 1/2 to 3/4 in. (13 to 19 mm) gap maintained between the top of the ceiling runner and the top of the deflection channel. When deflection channel is not used, ceiling runner to be provided with min. 1-1/2 in. (38 mm) flanges. Ceiling runner installed perpendicular to direction of fluted steel deck and secured to valleys with steel masonry anchors or welds spaced max 24 in. (610 mm) OC.
   A1. **Light Gauge Framing* - -Slotted Ceiling Runner -** As an alternate to the ceiling runner in Item 2A, ceiling runner to consist of galv steel channel with slotted flanges sized to accommodate steel studs (Items 2B). Ceiling runner installed perpendicular to direction of fluted steel deck and secured to valleys with steel masonry anchors spaced max 24 in. (610 mm) OC. When slotted ceiling runner is used, deflection channel (Item 3A) shall not be used.
   BRADY CONSTRUCTION INNOVATIONS INC, DBA SLIPTRACK SYSTEMS - SLP-TRK
   CALIFORNIA EXPANDED METAL PRODUCTS CO - CST
   CLARKDIETRICH BUILDING SYSTEMS - Type SLT, SLT-H
   MARINO/WARE, DIV OF WARE INDUSTRIES INC - Type SLT
   QUAIL RUN BUILDING MATERIALS INC - Slotted Deflection Track
   RAM SALES L L C - RAM Slotted Track
   SCAFCO STEEL STUD MANUFACTURING CO
   STEELER INC - Steeler Slotted Ceiling Runner
   TELLING INDUSTRIES L L C - True-Action Deflection Track
   A2. **Light Gauge Framing - Floor and Ceiling Runners -** As an alternate to the ceiling and floor runners in Item 2A, 2A1 and 2A2, floor and ceiling runners to consist of galv steel channel sized to accommodate the **Light Gauge Framing*** Slotted Stud (Item 2B1) or **Light Gauge Framing*** Slider C-Clip System (Item 2B2). Floor and ceiling runners to be provided with min 1-1/4 in. and 3 in. (32 and 76 mm) flanges, respectively. Ceiling runner installed perpendicular to direction of fluted steel deck and secured to valleys with steel masonry anchors spaced max 12 in. (305 mm) OC. When ceiling runner is used, deflection channel (Item 3A) shall not be used.
   STEELER INC - Floor and Ceiling Runners

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HW-D-0034
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   A3. **Light Gauge Framing* - Notched Ceiling Runner -** As an alternate to the ceiling runners in Items 2A through 2A3, notched ceiling runners to consist of C-shaped galv steel channel with notched return flanges sized to accommodate steel studs (Item 2B). Notched ceiling runner installed perpendicular to direction of fluted steel deck and secured to valleys with steel masonry anchors spaced max 24 in. (610 mm) OC. When notched ceiling runner is used, deflection channel (Item 3A) shall not be used.
   OLMAR SUPPLY INC - Type SCR
   A4. **Steel Framing Members* - Sound Isolation Clips -** (Not Shown) - As an alternate attachment means for the ceiling runner to the bottom of the floor or roof assembly when no deflection channel (Item 3A) is used, sound isolation clips installed in accordance with the accompanying installation instructions. Sound isolation clip installed through nom 1 in. (25 mm) diam hole in ceiling runner and attached to top of ceiling runner using four min No. 8 by 1/2 in. (13 mm) long self-tapping galv steel screws. Sound isolation clips to be installed adjacent to every stud location but not more than 24 in. (610 mm) OC and attached to the underside of floor or roof assembly using min 3/16 in. (5 mm) diam by 2-1/2 in. (64 mm) long steel masonry anchors.
   PAC INTERNATIONAL L L C - Type RSIC-U-HD
   B. **Studs -** Steel studs to be min 3-1/2 in (89 mm) wide. Studs cut 1/2 to 3/4 in. (13 to 19 mm) less in length than assembly height with bottom nesting in and secured to floor runner. When deflection channel (Item 3A) is used, steel studs attached to ceiling runner with sheet metal screws located 1/2 in. (13 mm) below the bottom to the deflection channel. When deflection channel is not used, studs to nest in ceiling runner without attachment. When slotted ceiling runner (Item 2A2) is used, steel studs secured to slotted ceiling runner with No. 8 by 1/2 in. (13 mm) long wafer head steel screws at midheight of slot on each side of wall. Stud spacing not to exceed 24 in. (610 mm) OC.
   B1. **Light Gauge Framing* - Slotted Studs -** Slotted steel stud to be used in conjunction with **Light Gauge Framing* - Floor and Ceiling Runners** (Item 2A3). Slotted steel studs to be min 3-1/2 in. (89 mm) wide. Slotted steel studs cut 1 in. (25 mm) less in length than assembly height with bottom of steel stud nesting in and secured to both ceiling and floor runners. Ceiling runner secured to preformed slot within steel stud by means of No. 10 by 3/4 in. (19 mm) long low profile head steel screw. Floor runner attached to bottom of steel stud by means of No. 8 by 1/2 in. (13 mm) long pan head steel screw. Slotted steel stud spacing not to exceed 24 in. (610 mm) OC.
   STEELER INC - Slotted Stud
   B2. **Light Gauge Framing* - Slider C-Clip System -** As an alternate to the **Light Gauge Framing* - Slotted Steel Studs** (Item 2B1), a Slider C-Clip System consisting of a C shaped steel clip with a slotted opening and a steel stud to be used in conjunction with **Light Gauge Framing - Floor and Ceiling Runners** (Item 2A3). Steel clips and studs to be min 3-1/2 in. (89 mm) wide. Steel clip inserted into inside flange of steel stud without attachment. Total length of steel stud cut 1 in. (25 mm) less than assembly height with bottom of steel stud nesting in and secured to floor runner. Floor runner attached to bottom of steel stud by means of No. 8 by 1/2 in. (13 mm) long pan head steel screw. Ceiling runner secured to steel C-Clip by means of No. 10 by 3/4 in. (19 mm) long pan head steel screw located 3/8 in. (10 mm) below top of ceiling runner. Top row of gypsum board screws shall be centered within the preformed slot of the C-Clip. Steel stud and steel clips spacing not to exceed 24 in. (610 mm) OC.
   STEELER INC - Slider C Clip System
   C. **Gypsum Board* -** Gypsum board sheets installed to a min total thickness of 5/8 in. or 1-1/4 in. (16 or 32 mm) on each side of wall for 1 hr or 2 hr fire rated wall, respectively. Wall to be constructed in the individual U400 or V400 Series Design in the UL Fire Resistance Directory, except that a nom 1 in. (25 mm) gap shall be maintained between the top of the wallboard and the bottom surface of the steel floor or roof deck. The screws attaching the gypsum board to the studs along the top of the wall shall be located 1 in. (25 mm) below the bottom of the ceiling runner. No gypsum board attachment screws shall be driven into the ceiling runner or into the optional deflection channel
   The hourly fire rating of the joint system is dependent upon the hourly fire rating of the wall assembly in which it is installed.

2A. **Through Penetrant -** (Optional, Not Shown) - Nom 3/8 in. or 1/2 in. (10 or 13 mm) diam rigid steel conduit, steel electrical metallic tubing (EMT) or 1-1/2 in. (38 mm) Sch 40 PVC conduit may be installed within the flutes of the steel floor or roof deck. The conduit or EMT shall be located near the middepth of the steel deck with a clearance of 1/2 to 1-1/2 in. 13 to 38 mm) between the conduit or EMT and the steel deck. A max of one conduit or EMT is permitted in an individual flute. **When conduit or EMT is installed in flute of steel deck, the hourly rating of the joint system is 1 hr.**

3. **Joint System - Max separation between bottom of floor or roof deck and top of wall (at time of installation of joint system) is 1 in. (25 mm). The joint system is designed to accommodate a max 7% (for SpecSeal LC150 Sealant) or 25 % (for SpecSeal ES Sealant) compression or extension from its installed width.** The joint system shall consist of forming and fill materials, with or without a deflection channel (Item 3A), as follows:

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HW-D-0034
PAGE 3 OF 4

   A. **Deflection Channel -** (Optional) - Max 2 in. (51 mm) deep min 24 gauge galv steel channel sized to accommodate ceiling runner (Item 2A). Deflection channel installed perpendicular to direction of fluted steel deck and secured to valleys of with steel masonry anchors or welds spaced max 24 in. (610 mm) OC. The ceiling runner (Item 2A) is installed within the deflection channel to maintain a 1/2 to 3/4 in. (13 to 19 mm) gap between the top of the ceiling runner and the top of the deflection channel. The ceiling runner nests inside the deflection channel without attachment.
   B. **Forming Material* -** Min 4-1/4 in. or 5-5/8 in. (108 or 149 mm) depth, for 1 hr or 2 hr fire rated wall, respectively, of 4 pcf (64 kg/m3) mineral wool batt insulation cut to the shape of the fluted deck, approx 20 percent larger than the area of the flutes and compressed into the flutes of the steel floor or roof deck between the top of the deflection channel and the steel floor or roof deck. When sound isolation clips (Item 2A5) are used, the space between the top of the ceiling runner and the underside of the floor or roof shall be tightly packed with mineral wool batt insulation. Additional 2 in. (51 mm) thick by 1 in. (25 mm) wide sections of mineral wool batt insulation are compressed 50 percent and installed cut edge first to fill the 1 in. (25 mm) gap between the top of the wall and bottom of the steel floor or roof deck. The forming material shall be recessed from each surface of wall to accommodate the required thickness of fill material (Item 3C).
   ROCK WOOL MANUFACTURING CO - Delta Safing
   ROCKWOOL MALAYSIA SDN BHD - Safe
   ROCKWOOL - Safe
   THERMAFIBER INC - Type SAF
   B1. **Forming Material* -** (Optional, Not Shown) - Preformed mineral wool plugs, formed to the shape of the fluted floor units, friction fit to completely fill the flutes above the ceiling channel. The plugs shall project beyond each side of the ceiling runner and shall be recessed from both wall surfaces to accommodate the required thickness of fill material (Item 3C). Additional forming material, described in Item 3B, to be used in conjunction with the plugs to fill the gap between the top of gypsum board and bottom of steel deck.
   THERMAFIBER INC - TopStop mineral wool deck plugs Type SAF batts
   C. **Fill, Void or Cavity Material* - Sealant -** Min 1/4 in. (6 mm) thickness of fill material installed on each side of the wall in the flutes of the steel floor or roof deck and between the top of the wall and the bottom of the steel floor or roof deck, flush with each surface of wall.
   SPECIFIED TECHNOLOGIES INC - SpecSeal ES Sealant, SpecSeal LC150 Sealant
   *** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

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HW-D-0034
PAGE 4 OF 4

(2) STI System No. HW-D-0034
NTS

Design No. U419

Nonbearing Wall Ratings — 1, 2, 3 or 4 Hr (See Items 3 & 4)

1. **Floor and Ceiling Runners** — (Not shown) — Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min width to accommodate stud size, with min 1 in. long legs, attached to floor and ceiling with fasteners 24 in. OC max.
2. **Steel Studs** — Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min width as indicated under Item 4, min 1-1/4 in. flanges and 1/4 in. return, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.
3. **Batts and Blankets*** — (Required as indicated under Item 4) — Mineral wool batts, friction fitted between studs and runners. Min nom thickness as indicated under Item 4. See **Batts and Blankets (BKNV or BZJZ) Categories** for names of Classified companies.

3A. **Batts and Blankets*** — (Optional) — Placed in stud cavities, any glass fiber or mineral wool insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance. See **Batts and Blankets (BKNV or BZJZ) Categories** for names of Classified companies.

4. **Gypsum Board*** — Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) staggered a min of 12 in. The thickness and number of layers for the 1 hr, 2 hr, 3 hr and 4 hr ratings are as follows:

Wallboard Protection on Each Side of Wall

Rating	Min Stud Depth	No. of Layers & Thkns of Panel	Min Thkns of Insulation (Item 3)
1	3-1/2	1 layer, 5/8 in. thick	Optional
1	2-1/2	1 layer, 1/2 in. thick	1-1/2 in.
1	1-5/8	1 layer, 3/4 in. thick	Optional
2	1-5/8	2 layers, 1/2 in. thick	Optional
2	1-5/8	2 layers, 5/8 in. thick	Optional
2	3-1/2	1 layer, 3/4 in. thick	3 in.
3	1-5/8	3 layers, 1/2 in. thick	Optional
3	1-5/8	2 layers, 3/4 in. thick	Optional
3	1-5/8	3 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 1/2 in. thick	Optional
4	2-1/2	2 layers, 3/4 in. thick	2 in.

CANADIAN GYPSUM COMPANY —1/2 in. thick Type C, IP-X2 or IPC-AR; WRC, 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRX or WRC; 3/4 in. thick Type IP-X3, ULTRACODE, ULTRACODE SHC or ULTRACODE WRC.
UNITED STATES GYPSUM CO —1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type SCX, SHX, WRX, IP-X1, AR, C, WRC, FRX-G, IP-AR, IP-X2, IPC-AR; 3/4 in. thick Type IP-X3, ULTRACODE, ULTRACODE SHC or ULTRACODE WRC.
USG MEXICO S A DE C V —1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRX, WRC or; 3/4 in. thick Type IP-X3, ULTRACODE, ULTRACODE SHC or ULTRACODE WRC.

4A. **Gypsum Board*** — (As an alternate to Item 4) — 5/8 in. thick, 2 ft. wide, tongue and groove edge, applied horizontally as the outer layer to one side of the assembly. Secured as described in Item 5. Joint covering (Item 7) not required.
CANADIAN GYPSUM COMPANY — Type SHX.
UNITED STATES GYPSUM CO —Type SHX.
USG MEXICO S A DE C V — Type SHX.

5. **Fasteners** — (Not shown) — Type S or S-12 steel screws used to attach panels to studs (Item 2) or furring channels (Item 6). **Single layer systems:** 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 8 in. OC when panels are applied horizontally, or 8 in. OC along vertical and bottom edges and 12 in. OC in the field when panels are applied vertically. Two layer systems: First layer- 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels or 2-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC with screws offset 8 in. from first layer. **Three-layer systems:** First layer- 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer- 2-1/4 in. long for 1/2 in., 5/8 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below. **Four-layer systems:** First layer- 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer- 2-1/4 in. long for 1/2 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 24 in. OC. Fourth layer- 2-5/8 in. long for 1/2 in. thick panels or 3 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below.
6. **Furring Channels** — (Optional, not shown, for single or double layer systems) — Resilient furring channels fabricated from min 25 MSG corrosion-protected steel, spaced vertically a max of 24 in. OC. Flange portion attached to each intersecting stud with 1/2 in. long Type S-12 steel screws. Not for use with Item 4A.

6A. **Steel Framing Members (Not Shown)*** — (Optional on one or both sides, not shown, for single or double layer systems) — As an alternate to Item 6, furring channels and Steel Framing Members as described below:
   a. **Furring Channels** — Formed of No. 25 MSG galv steel. 2-3/8 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board attached to furring channels as described in Item 5. Not for use with Item 4A.
   b. **Steel Framing Members*** — Used to attach furring channels (Item 6a) to studs (Item 2). Clips spaced max. 48 in. OC., and secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into clips.
   PAC INTERNATIONAL INC —Type RSIC-1.

7. **Joint Tape and Compound** — Vinyl or casein, dry or premixed joint compound applied in two coats to joints and screw heads of outer layers. Paper tape, nom 2 in. wide, embedded in first layer of compound over all joints of outer layer panels. Paper tape and joint compound may be omitted when gypsum panels are supplied with a square edge.
8. **Siding, Brick or Stucco** — (Optional, not shown) — Aluminum, vinyl or steel siding, brick veneer or stucco, meeting the requirements of local code agencies, installed over gypsum panels. Brick veneer attached to studs with corrugated metal wall ties attached to each stud with steel screws, not more than each sixth course of brick.
9. **Caulking and Sealants*** — (Optional, not shown) — A bead of acoustical sealant applied around the partition perimeter for sound control.
   UNITED STATES GYPSUM CO —Type AS

*Bearing the UL Classification Mark

(1) UL 419 RATED PARTITION
NTS

GENERAL NOTES:

1. THE GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND MEASUREMENTS IN THE FIELD PRIOR TO STARTING CONSTRUCTION.
2. REFER TO GENERAL NOTES ON SHEET A0-00 FOR INFORMATION NOT INDICATED ON THIS SHEET.

RATED PENETRATION NOTES: 1

1. WHERE PROVIDED, THROUGH-PENETRATION FIRESTOP SYSTEM AND MEMBRANE PENETRATION DETAILS ARE FOR REFERENCE ONLY.
2. THROUGH-PENETRATIONS AND MEMBRANE PENETRATIONS SHALL BE PROTECTED BY AN APPROVED PENETRATION FIRESTOP SYSTEM OR MEMBRANE PENETRATION FIRESTOP SYSTEM INSTALLED AS TESTED IN ACCORDANCE WITH ASTM E 814 OR UL 1479, WITH A MINIMUM POSITIVE PRESSURE DIFFERENTIAL OF 0.01 INCH (2.49 PA) OF WATER OR AS OTHERWISE PERMITTED BY CBC, SECTION 714. LISTED THROUGH-PENETRATION FIRESTOP SYSTEMS AND MEMBRANE PENETRATIONS SHALL BE INSTALLED IN ACCORDANCE WITH THE INSTALLATION DETAILS FOR LISTED SYSTEMS.
3. LISTED THROUGH-PENETRATION FIRESTOP SYSTEMS, MEMBRANE PENETRATION PROTECTION AND OTHER PERMITTED MEANS AND METHODS OF PENETRATION PROTECTION SHALL BE SUBMITTED FOR OSHPD FDD FIELD FIRE MARSHAL REVIEW AND APPROVAL PRIOR TO INSTALLATION. 2019 CBC 107.2.1.
4. 3 WHERE A REQUIRED FIRE PROTECTION SYSTEM IS OUT OF SERVICE THE LOCAL FIRE JURISDICTION AND OSHPD SHALL BE NOTIFIED. A FIRE WATCH SHALL BE PROVIDED UNTIL THE SYSTEM IS OPERABLE. WHEN A FIRE WATCH IS REQUIRED PERSONNEL SHALL BE PROVIDED WITH AN APPROVED MEANS FOR NOTIFYING THE FIRE DEPARTMENT AND THE ONLY DUTY OF THE FIRE WATCH PERSONNEL IS TO WATCH FOR THE OCCURRENCE OF FIRE. PER 2019 C.F.C. SECTIONS 901.7 & 3304.5 AND OSHPD CAN 9-3301. 6

System No. C-AJ-5087

August 18, 2011

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Rating - 2 Hr	F Rating - 2 Hr
T Rating - 1 Hr	FT Rating - 1 Hr
L Rating At Ambient - Less Than 1 CFM/sq ft	FH Rating - 2 Hr
L Rating At 400 F - Less Than 1 CFM/sq ft	FTH Rating - 1 Hr
	L Rating At Ambient - Less Than 1 CFM/sq ft
	L Rating At 400 F - Less Than 1 CFM/sq ft

1. **Floor or Wall Assembly —** Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m^3) concrete floor or min 5 in. (127 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m^3) concrete wall. Floor may also be constructed of any min 6 in. (152 mm) thick UL Classified hollow-core **Precast Concrete Units***. Wall may also be constructed of any UL Classified **Concrete Blocks*** Max diam of opening is 30 in. (762 mm). Max diam of opening in floor constructed of hollow-core precast concrete units is 7 in. (178 mm).
See **Concrete Blocks** (CAZT) and **Precast Concrete Units** (CFTV) categories in the Fire Resistance Directory for names of manufacturers.

2. **Steel Sleeve - (Optional) —** Nominal 30 in. (762 mm) diam (or smaller) Sch 10 (or heavier) steel pipe sleeve or No. 26 ga (0.022 in. or 0.56 mm thick) sheet steel sleeve with square anchor flange spot welded to the sleeve at approx mid-height. Sleeve cast or grouted into floor or wall assembly, flush with floor or wall surfaces.

3. **Through Penetrants —** One metallic pipe to be installed either concentrically or eccentrically within the firestop system. Pipe to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic pipes may be used:
   A. **Steel Pipe —** Nom 24 in. (610 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.

   B. **Iron Pipe —** Nom 24 in. (610 mm) diam (or smaller) cast or ductile iron pipe.

   C. **Copper Tubing —** Nom 6 in. (152 mm) diam (or smaller) Type M (or heavier) copper tubing.

   D. **Copper Pipe —** Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.

4. **Pipe Coverings —** One of the following types of pipe coverings shall be used:
   A. **Pipe and Equipment Covering Materials* —** Nom 2 in. (51 mm) thick hollow cylindrical heavy density (min 3.5 pcf or 56 kg/m^3) glass fiber units jacketed on the outside with an all service jacket. Longitudinal joints sealed with metal fasteners or factory-applied self-sealing lap tape. Transverse joints secured with metal fasteners or with butt tape supplied with the product. Annular space shall be min 1/2 in. (13 mm) thick to max 1-1/2 in. (38 mm). When the nom pipe diam is less than 2 in. (51 mm), annular space may be min 1/4 in. (6 mm).
   See **Pipe and Equipment Covering-Materials** (BRGU) category in Building Materials Directory for names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.

   B. **Pipe Covering Materials* —** Nom 2 in. (51 mm) thick unfaced mineral fiber pipe insulation having a nom density of 3.5 pcf (56 kg/m^3) (or heavier) and sized to the outside diam of pipe or tube. Pipe insulation secured with min No. 8 AWG steel wire spaced max 12 in. (305 mm) OC.
   INDUSTRIAL INSULATION GROUP L L C — High Temperature Pipe Insulation 1200, High Temperature Pipe Insulation BWT or High Temperature Pipe Insulation Thermaloc

   C. **Sheathing Material* —** Used in conjunction with Item 4B . Foil-scrim-kraft or all service jacket material shall be wrapped around the outer circumference of the pipe insulation (Item 4B) with the kraft side exposed. Longitudinal joints and transverse joints sealed with metal fasteners or butt tape. Annular space shall be min 1/2 in. (13 mm) thick to max 1-1/2 in. (38 mm). When the nom pipe diam is less than 2 in. (51 mm), annular space may be min 1/4 in. (6 mm).
   See **Sheathing Materials*** — (BVDV) category in the Building Materials Directory for names of manufacturers. Any sheathing material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.

5. **Firestop System —** The firestop system shall consist of the following:
   A. **Packing Material —** Min 4 in. (102 mm) thickness of min 4 pcf (64 kg/m^3) mineral wool batt insulation compressed and firmly packed within annular space. Packing material to be recessed from top surface of floor or from both surfaces of wall to accommodate the required thickness of fill material (Item 5B). 6

   B. **Fill, Void or Cavity Material* — Sealant —** Min 1/2 in. (13 mm) thickness of fill material applied within the annulus, flush with top surface of floor or with both surfaces of wall. When min annular space is less than 1/2 in. (13 mm), fill material to be installed to min 1 in. (25 mm) thickness. 5
   SPECIFIED TECHNOLOGIES INC — SpecSeal Series SSS Sealant or SpecSeal LCI Sealant

(4) UL C-AJ-5087
N.T.S.

S F E I R
A R C H I T E C T S

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TCMC MRI

Tri-City Medical Center

4002 VISTA WAY
OCEANSIDE CA, 92056

OWNER:	TRI-CITY MEDICAL CENTER 4002 VISTA WAY OCEANSIDE, CALIFORNIA 92056 TEL(760)940-7709
ARCHITECT:	SFEIR ARCHITECTS 5151 SHOREHAM PL SUITE 265 6 SAN DIEGO, CALIFORNIA 92122 TEL(619)299-3917
STRUCTURAL:	MIYAMOTO INTERNATIONAL, INC. 5550 BALTIMORE DRIVE, SUITE 100 6 LA MESA, CA 91942 TEL(858)457-3001
MECHANICAL &PLUMBING:	SC ENGINEERS, INC. 17075 VIA DEL CAMPO SAN DIEGO, CALIFRONIA 92127 TEL(858)946-0333
ELECTRICAL:	AG DESIGN, INC. 171 S. ANITA DR. SUITE 111 ORANGE, CALIFRONIA 92868 TEL(714)769-9900 EXT. 201
SHIELDING:	MRI SHIELDING CORPORATION 3554 BUISNESS PARK DR., SUITE B COSTA MESA, CA 92626 TEL(714)545-7700
INTERIORS:	ISLEY DESIGN & PLANNING 1982 PALSERO AVENUE ESCONDIDO, CA 92029 TEL(760)484-0455

LICENSED ARCHITECT
JOSEPH MICHEL SFEIR
No. C28543
REN. 1-31-23
STATE OF CALIFORNIA

REV:	DESCRIPTION:	DATE:
1	OSHPD COMMENTS	8/3/2020
2	DESIGN CHANGES	8/10/2020
3	OSHPD COMMENTS	10/2/2020
4	OSHPD COMMENTS	11/24/2020
5	DESIGN CHANGES	11/24/2020
6	ACD 0001 DESIGN CHANGES	4/10/2021
7	ACD 0001 DESIGN CHANGES	5/8/2021

CONSULTANT

OSHPD APPROVAL STAMP:
OSHPD #: S200813-37-00-ACD0001

SHEET TITLE:
FIRE RATED ASSEMBLIES

PROJECT TITLE:
TCMC MRI

PROJECT #: 01907.01
DRAWN BY: MK
CHECKED BY: JS
SCALE: PER TITLE
DATE: 3/11/2020

SHEET NUMBER:
A5-00

100% - CONSTRUCTION DOCUMENTS

GENERAL NOTES:

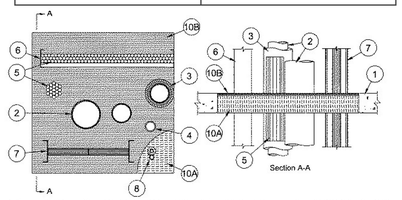
1. THE GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND MEASUREMENTS IN THE FIELD PRIOR TO STARTING CONSTRUCTION.

2. REFER TO GENERAL NOTES ON SHEET A0-00 FOR INFORMATION NOT INDICATED ON THIS SHEET.

System No. C-AJ-8113

May 11, 2017

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Rating - 2 Hr	F Rating - 2 Hr
T Rating - 0, 1/4, 1/2, 3/4 and 2 Hr (See Items 2 through 9)	FT Rating - 0, 1/4, 1/2, 3/4 and 2 Hr (See Items 2 through 9)
	FH Rating - 2 Hr
	FTH Rating - 0, 1/4, 1/2, 3/4 and 2 Hr (See Items 2 through 9)



1. **Floor or Wall Assembly —** Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m^3) concrete. Wall may also be constructed of any UL Classified **Concrete Blocks***. Max area of opening is 1024 sq in. (0.66 m^2) with a max height of 32 in. (813 mm) when installed in a wall or a max width of 32 in. (813 mm) when installed in a floor.

See **Concrete Blocks** (CAZT) category in the Fire Resistance Directory for names of manufacturers.

2. **Metallic Penetrants —** One or more metallic pipes, conduits or tubes to be installed within the opening. Annulus between penetrants is min 0 in. (point contact) to max 24 in. (609 mm). Annulus between penetrants and periphery of opening is 0 in. (point contact) to max 24 in. (609 mm). Penetrants rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:

A. **Steel Pipe —** Nom 12 in. (305 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.

B. **Iron Pipe —** Nom 12 in. (305 mm) diam (or smaller) cast or ductile iron pipe.

C. **Conduit —** Nom 6 in. (152 mm) diam (or smaller) rigid steel conduit, nom 4 in. (102 mm) diam (or smaller) electrical metallic tubing (EMT), or nom 4 in. (102 mm) diam (or smaller) steel Flexible Metal Conduit#.

D. **Copper Pipe or Tube —** Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe or Type M (or heavier) copper tube.

Type of Metallic Penetrant	Max Diam of Through Penetrant, in. (mm)	T Rating, Hr
Steel or Iron Pipe, Conduit	12 (305)	0
Copper Pipe or Tube	6 (152)	0
Steel or Iron Pipe, Conduit or EMT	4 (102)	1/4
Steel or Iron Pipe, Conduit or EMT	2 (51)	1/2
Steel or Iron Pipe, Conduit or EMT	1 (25)	3/4

3. **Pipe Insulation —** One or more max 4 in. (102 mm) metallic pipes or tubes may be insulated. Annulus between penetrants is min 0 in. (point contact) to max 24 in. (609 mm). Annulus between penetrants and periphery of opening is 0 in. (point contact) to max 24 in. (609 mm). The annular space between metallic pipes, conduit and tubes and insulated pipes and tubes shall be a min 1/2 in. (13 mm) to max 24 in. (609 mm). Penetrants rigidly supported on both sides of floor or wall assembly. The following types of pipe insulation may be used:

A. **Pipe and Equipment Covering Materials* —** Nom 1 in. (25 mm) thick hollow cylindrical heavy density (min 3.5 pcf or 56 kg/m^3) glass fiber units jacketed on the outside with an all service jacket. Longitudinal joints sealed with metal fasteners or factory-applied self-sealing lap tape. Transverse joints secured with metal fasteners or with butt tape supplied with the product. **When Item 3A is used, T Rating is 3/4 Hr**.
See Pipe and Equipment Covering Materials (BRGU) category in the Building Materials Directory for names of manufacturers. Any pipe covering meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.

B. **Pipe Covering Materials* —** Nom 2 in. (51 mm) thick unfaced mineral fiber pipe insulation having a nom density of 3.5 pcf (56 kg/m^3) (or heavier) and sized to the outside diam of the pipe or tube. Pipe insulation secured with min 8 AWG steel wire spaced max 12 in. (305 mm) OC. When **Item 3B is used, T Rating is 2 Hr**.
INDUSTRIAL INSULATION GROUP L L C — High Temperature Pipe Insulation 1200, High Temperature Pipe Insulation BWT and High Temperature Pipe Insulation Thermaloc

C. **Sheathing Material* —** Use in conjunction with Item 3B. Foil-scrim-kraft or all service jacket material shall be wrapped around the outer circumference of the pipe insulation (Item 3B) with the kraft side exposed. Longitudinal and transverse joints sealed with metal fasteners or butt tape.
See **Sheathing Materials** (BVDV) category in the Building Materials Directory for names of manufacturers. Any sheathing material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.

D. **Tube Insulation-Plastics## —** Nom 3/4 in. (19 mm) thick acrylonitrile butadiene/polyvinyl chloride (AB/PVC) flexible foam furnished in the form of tubing. **When Item 3D is used, T Rating is 1/2 Hr.**
See **Plastics** (QMFZ2) category in the Plastics Recognized Component Directory for names of manufacturers. Any Recognized Component tube insulation meeting the above specifications and having a UL 94 Flammability Classification of 94-5VA may be used.

E. **Pipe Covering Materials* — Cellular Glass Insulation —** Nom 2 to 3 in. (51 to 76 mm) thick cellular glass units sized to the outside diam of the pipe or tube and supplied in nom 24 in. (610 mm) long half sections or nom 18 in.(457 mm) long segments. Pipe insulation installed on pipe in accordance with the manufacturer's instructions. **When Item 3E is used, T Rating is 2 Hr.**

F. **Metal Jacket —** Used in conjunction with Item 3E. Min 12 in. (305 mm) long jacket formed from min 0.010 in. (0.25 mm) thick aluminum sheet cut to wrap tightly around the pipe insulation with a min 2 in. (51 mm) lap and secured using bands and seals of a similar material or min No. 18 AWG steel tie wire. Bands or steel tie wire to be located within 2 in. (51 mm) of each end of the jacket and spaced max 10 in. (254 mm) OC. Jacket installed with edge abutting surface of fill material (Item 9A) on top surface of floor or both surfaces of wall. Metal jacket to be used in addition to any other jacketing material which may be required on the pipe covering.

G. **Pipe and Equipment Covering Materials* —** Nom 2 to 3 in. (51 to 76 mm) thick hollow cylindrical calcium silicate (min 14 pcf or 224 kg/m3) units sized to the outside diam of the pipe or tube. Pipe insulation secured with stainless steel bands or min 8 AWG stainless steel wire spaced max 12 in. (305 mm) OC. **When Item 3G is used, T Rating is 2 Hr.**

4. **Nonmetallic Penetrants —** One or more nonmetallic pipes, conduits or tubes to be installed within the opening. Annulus between penetrants and periphery of opening is min 1 in. (25 mm) to max 24 in. (609 mm). Separation between metallic and nonmetallic penetrants is min 6 in. (152 mm). Penetrants rigidly supported on both sides of floor or wall assembly. The following types and sizes of nonmetallic pipes, conduits or tubing may be used:

A. **Polyvinyl Chloride (PVC) Pipe —** Nom 2 in. (51 mm) diam (or smaller) solid or cellular core Schedule 40 PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.

B. **Chlorinated Polyvinyl Chloride (CPVC) Pipe —** Nom 2 in. (51 mm) diam (or smaller) SDR13.5 CPVC pipe for use in closed (process or supply) piping systems.

C. **Rigid Nonmetallic Conduit+ —** Nom 2 in. (51 mm) diam (or smaller) Schedule 40 PVC conduit installed in accordance with the National Electrical Code (NFPA 70).

D. **Electrical Nonmetallic Tubing (ENT) + —** Nom 2 in. (51 mm) diam (or smaller) corrugated wall ENT formed of polyvinyl chloride (PVC) installed in accordance with the National Electrical Code (NFPA 70).

E. **Optical Fiber Raceway+ —** Nom 2 in. (51 mm) diam (or smaller) optical fibner raceway (innerduct). Optical fiber raceway installed in accordance with Article 770 of the National Electrical Code (NFPA 70).
When Item 4 is used, the T Rating of the firestop system is 2 hr.

5. **Cables —** Nom 4 in. (102 mm) diam (or smaller) tight bundle of cables. Annulus between cable bundle and periphery of opening is min 0 in. (point contact) to max 24 in. (609 mm). Separation between cable bundle and metallic or nonmetallic penetrants shall be min 6 in. (152 mm). Cable bundle rigidly supported on both sides of floor or wall assembly. The following types and sizes of cables may be used:

A. Max 1/C - 1000 kcmil cable with polyvinyl chloride (PVC) or cross-linked polyethylene (XLPE) insulation and jacket.

B. Max 7/C - No. 12 AWG cable with PVC-nylon insulation and PVC jacket.

C. Max 400 pair - No. 24 AWG copper conductor telephone cable with PVC insulation and jacket.

D. Max RG/U coaxial cables with fluorinated ethylene jacket and insulation.

E. Multiple fiber optic cables with PVC insulation.

F. **Through Penetrating Products*** — Max 4/C with ground No. 2/0 AWG **Metal-Clad Cable+.**
AFC CABLE SYSTEMS INC

When cables are used, T Rating is 1/2 hr.

6. **Cable Tray —** Max 30 in. (762 mm) wide by max 6 in. (152 mm) deep open ladder cable tray with channel-shaped side rails formed from min 0.060 in. (1.5 mm) thick (No. 16 MSG) galv steel or min 0.060 in. (1.5 mm) thick aluminum with rungs spaced max 9 in. (229 mm) OC. A max of two cable trays may be installed within the opening with a min vertical separation of 4 in. (102 mm) and a min horizontal separation of 1/4 in. (6 mm) between trays. Max vertical or horizontal separation is 24 in. (609 mm). Annulus between the cable tray and the periphery of the opening is min 0 in. (point contact) to max 24 in. (609 mm). Separation between cable tray and metallic or nonmetallic penetrants is min 6 in. (152 mm). Cable trays to be rigidly supported on both sides of the floor or wall assembly. Aggregate cross-sectional area of cables in cable tray not to exceed 40 percent of the cross-sectional area of the cable tray based on a max 3 in. (76 mm) cable loading depth within tray. Any combination of the cable types specified in Item 5 may be used. **When cable tray is used, T Rating is 1/2 hr.**

7. **Busway+ —** Nom 19 in. (483 mm) wide (or smaller) by 6 in. (152 mm) deep "I" shaped aluminum enclosure containing factory-mounted copper bars rated for 600 V, 5000 A or max 26 in. (660 mm) wide by max 6 in. (152 mm) deep "I" shaped aluminum enclosure containing factory-mounted aluminum bars rated for 600 V, 4000 A. A max of two busways may be installed within the opening with a min separation of 1 in. (25 mm) to max 24 in. (609 mm). The annular space between the busway and the periphery of the opening shall be a min 0 in. (point contact) to a max 24 in. (609 mm). Busways spaced min 6 in. (152 mm) from all other penetrants. Busway to be rigidly supported on both sides of floor or wall assembly. The busway shall bear the UL Listing Mark and shall be installed in accordance with all provisions of the National Electrical Code, NFPA 70.
When busway is used, the T Rating is 1/4 hr.

8. **Air Conditioning (AC) Line Set —** One or more AC line sets installed within opening. Each AC line set consists of two pipes or tubes (Item 8A), tubing insulation (Item 8B) and a thermostat cable (Item 8C). The space between the AC line sets shall be min 2 in. (51 mm). The space between the AC line sets and the periphery of the opening shall be min 0 in. (point contact) to max 24 in. (609 mm). The AC line sets shall be spaced min 6 in. from uninsulated metallic penetrants and shall be rigidly supported on both sides of the floor or wall assembly.

8A. **Through Penetrant —** A max of two pipes or tubes to be installed in each AC line set. Of the two pipes or tubes, only one may have a nom diam greater than 1/2 in. (13 mm). The following types and sizes of through penetrants may be used:

A. **Steel Pipe —** Nom 1 in. (25 mm) diam (or smaller) Schedule 5 (or heavier) steel pipe.

B. **Iron Pipe —** Nom 1 in. (25 mm) diam (or smaller) cast or ductile iron pipe.

C. **Copper Pipe —** Nom 1 in. (25 mm) diam (or smaller) Regular (or heavier) copper pipe.

D. **Copper Tube —** Nom 1 in. (25 mm) diam (or smaller) Type L (or heavier) copper tube.

8B. **Tube Insulation — Plastics# —** Nom 3/4 in. (19 mm) thick acrylonitrile butadiene/polyvinyl chloride (AB/PVC) flexible foam furnished in the form of tubing. The tube insulation may be installed on one max 3/4 in. (19 mm) diam pipe or tube in each AC line set. The space between the insulated and uninsulated pipes or tubes within each AC line set shall be 0 in. (point contact).
See **Plastics** (QMFZ2) category in the Plastics Recognized Component Directory for names of manufacturers. Any Recognized Component tube insulation meeting the above specifications and having a UL 94 Flammability Classification of 94VA may be used.

8C. **Cable —** One 4 pair No. 18 AWG (or smaller) thermostat cable with polyvinyl chloride (PVC) insulation and jacket materials may be installed with each AC line set.
When Item 8 is used, the T Rating of the firestop system is 1/4 hr.

9. **Steel Duct —** (Not Shown) Nom 12 in. (305 mm) diameter (or smaller) No. 30 GA (or heavier) steel duct installed within opening when opening contains no cables or cable tray. A max of two steel ducts may be installed within the through-opening. Ducts to be spaced min 4 in. (102 mm) apart and min 8 in. (203 mm) from insulated penetrants and nonmetallic penetrants. Annulus between the steel duct and the periphery of the opening shall be min 0 in. (point contact) to max 24 in. (0 to 609 mm). Steel ducts to be rigidly supported on both sides of floor or wall assembly. **When steel duct is used, the T Rating is 0 hr.**

10. **Firestop System —** The firestop system shall consist of the following items:

A. **Packing Material —** Min 4 in. (102 mm) thickness of min 4 pcf (64 kg/m^3) mineral wool batt insulation tightly packed into opening. Packing material recessed from top surface of floor assembly or from both surfaces of wall or precast concrete units to accommodate the required thickness of fill material.

B. **Fill, Void or Cavity Materials* — Sealant —** Min 1/2 in. (13 mm) depth of fill material applied within the annulus, flush with top surface of floor assembly or with both surfaces of the wall assembly. Additional fill material forced into interstices of grouped cables and grouped cables within cable trays. At point contact location between through penetrant and concrete, a min 3/8 in. (9.6 mm) diam of fill material shall be applied at through penetrant/concrete interface on top surface of floor or both surfaces of the wall.
SPECIFIED TECHNOLOGIES INC — SpecSeal Series SSS Sealant or SpecSeal LCI Sealant

1 UL C-AJ-8113
NTS

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ELECTRICAL: AG DESIGN, INC.
171 S. ANITA DR. SUITE 111
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TEL(760)484-0455

LICENSED ARCHITECT
JOSEPH MICHAEL SFEIR
No. C 28543
REN. 1-31-23
STATE OF CALIFORNIA

REV.:	DESCRIPTION:	DATE:
1	OSHPD COMMENTS	8/3/2020
2	DESIGN CHANGES	8/10/2020
3	OSHPD COMMENTS	10/2/2020
4	OSHPD COMMENTS	11/24/2020
5	DESIGN CHANGES	11/24/2020
6	ACD 0001 DESIGN CHANGES	4/10/2021
7	ACD 0001 DESIGN CHANGES	5/8/2021

CONSULTANT

OSHPD APPROVAL STAMP:
OSHPD #: S200813-37-00-ACD0001

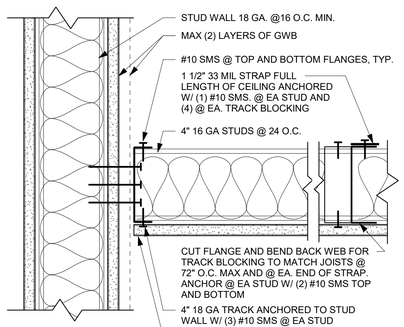
SHEET TITLE:
FIRE RATED ASSEMBLIES

PROJECT TITLE:
TCMC MRI

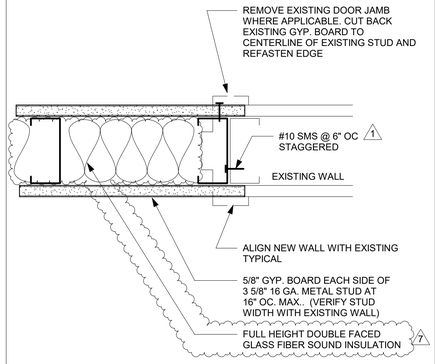
PROJECT #: 01907.01
DRAWN BY: MK
CHECKED BY: JS
SCALE: PER TITLE
DATE: 3/11/2020

SHEET NUMBER: A5-01

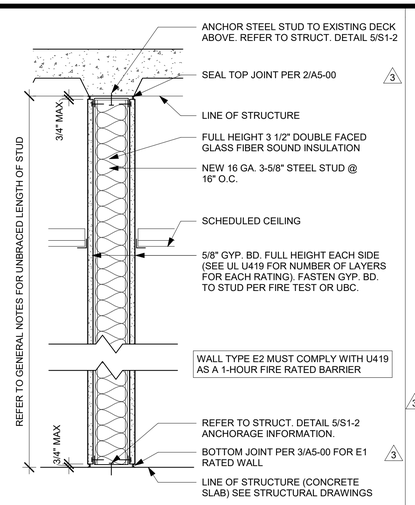
100% - CONSTRUCTION DOCUMENTS



11 GWB JOIST CEILING
3" = 1'-0"



10 INFILL AT EXISTING WALL
3" = 1'-0"



9 WALL TYPE E2 - 1 HOUR FIRE BARREIR
1 1/2" = 1'-0"

GENERAL NOTES:

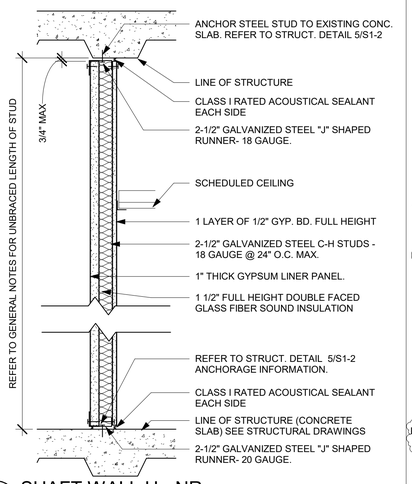
1. THE GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND MEASUREMENTS IN THE FIELD PRIOR TO STARTING CONSTRUCTION.
2. REFER TO GENERAL NOTES ON SHEET A0-00 FOR INFORMATION NOT INDICATED ON THIS SHEET.

GENERAL NOTES FOR PARTITIONS:

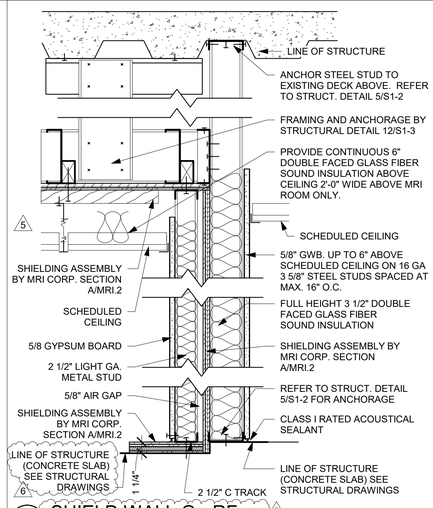
1. ALL GYP. BOARD SHALL BE TYPE 'X'. REFER TO FLOOR PLAN FOR LOCATION OF WALL TYPES.
2. REFER TO THE INTERIOR DESIGN SHEET AND RELATED DETAILS FOR FINISHES REQUIRED AND TO THE MANUFACTURER FOR SURFACE PREP. REQUIREMENTS.
3. REFER TO THE FLOOR PLAN, INTERIOR ELEVATIONS, DETAILS, MECHANICAL, PLUMBING AND ELECTRICAL PLANS FOR WALL BACKING REQUIREMENTS AND IN WALL UTILITIES.
4. ALL DOOR JAMBS AND OPENINGS OVER 24" SHALL BE DOUBLE STUDDED WITH 16 GA. STUDS EXTENDED TO STRUCTURE ABOVE REFER TO STRUCTURAL DETAILS FOR MORE INFORMATION.
5. PROVIDE 6" STEEL STUDS AT ALL WALLS AND/OR WALLS WHERE RECESSED ELECTRICAL PANELS OR FIRE EXTINGUISHER CABINETS ARE LOCATED. COORDINATE WITH RELATED SUB-CONTRACTORS.
6. PROVIDE 3 5/8" X 20 GA. STEEL TRACK BACKING AT ALL WALL MOUNTED DOOR STOPS. REFER TO 10/S1-2.
7. ALL STUDS SUPPORTING WALL HUNG CABINETS SHALL BE MIN. 16 GA. STUDS SPACED AT 16" O.C. MAXIMUM. REFER TO DETAILS 1 AND 2/A5-80 FOR REQUIRED BACKING MATERIAL AND CONNECTION.
8. ALL RATED WALLS (FIRE AND SMOKE) SHALL BE CONSTRUCTED SO THAT SECONDARY WALLS DO NOT PENETRATE SYSTEM. ALL PENETRATIONS SHALL BE SEALED W/ UL LISTED FIRE STOP SEALANT, UL LISTED ASSEMBLIES OR APPROVED EQUAL.
9. SUBMITTAL FOR WALL MATERIALS SHALL BE PROVIDED TO SUBSTANTIATE THE PROPOSED MATERIALS HAVE BEEN TESTED BY A RECOGNIZED TESTING AGENCY TO MEET THE REQUIRED RATINGS AND PERFORMANCE LEVELS OF THE SPECIFIED MATERIALS.
10. ALL PENETRATIONS IN RATED WALLS OVER 16 SQ. INCHES SHALL BE BACK WRAPPED WITH 5/8" TYPE 'X' GYP. BD. UNPROTECTED PENETRATIONS UNDER 16 SQ. INCHES SHALL NOT EXCEED 100 SQ. INCHES TOTAL FOR EACH 100 SQ. FEET OF WALL AREA. WHERE SUCH UNPROTECTED OPENINGS OCCUR ON OPPOSITE SIDES OF THE WALL SEPARATE THESE OPENINGS BY MIN. 24 INCHES.
11. DOOR OPENINGS SHALL BE PROTECTED BY A U.L. LISTED (OR EQUAL) DOOR AND DOOR FRAME. ALL RATED DOORS SHALL BE POSITIVE LATCHING, AUTOMATIC CLOSING AND GASKETED TO PREVENT THE PASSAGE OF SMOKE. DOORS EQUIPPED WITH A HOLD OPEN DEVICE SHALL BE INTERCONNECTED TO THE FIRE ALARM WHICH SHALL CLOSE THE DOOR UPON ACTIVATION.
12. ALL INTERIOR WOOD TO BE FIRE TREATED.
13. SEE SHEET A5-00 FOR FIRE RATED ASSEMBLIES AND PENETRATIONS.
14. ALL GYPSUM WALL BOARD INSTALLED BEHIND PLUMBING FIXTURES SHALL BE WATER RESISTANT. 6
15. COMPLY WITH THE FOLLOWING ICC REPORTS:

    "CEMCO"- ICC #ESR-3064P (STUDS AND TRACKS)
    "ITW RAMSET/RAMSET"- I.C.C. #1799 (POWDER DRIVEN PINS).

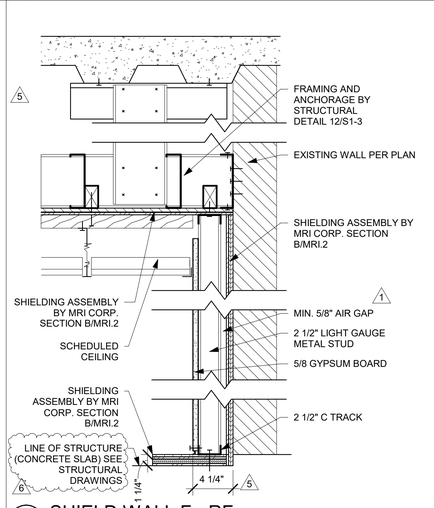
    REFER TO THE FOLLOWING TABLE FOR ALLOWABLE WALL HEIGHTS, HEIGHTS ARE FOR NON-LOAD BEARING STEEL STUDS USED FOR INTERIOR PARTITIONS WITH BOTH FLANGES OF STUDS CONTINUOUSLY BRACED WITH GYP. BOARD OR FLAT STRAPS. ALLOWABLE HEIGHTS ARE THOSE LISTED WITHIN THE ICC REPORT. BRACE ALL STUDS AS REQUIRED SO AS NOT TO EXCEED THOSE ALLOWED HEIGHTS SET BY THE MFR. AND THE ICC REPORT. SUBMIT FOR APPROVAL, CURRENT ICC REPORT



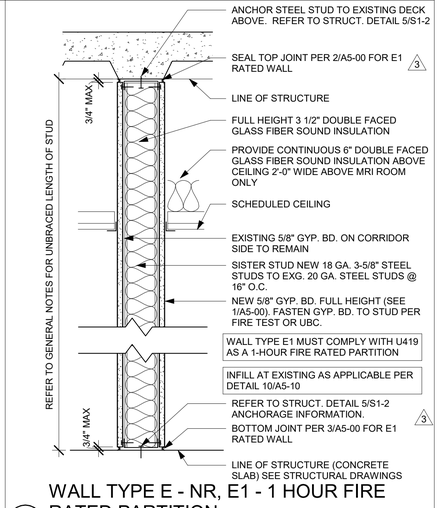
8 SHAFT WALL H - NR
1 1/2" = 1'-0"



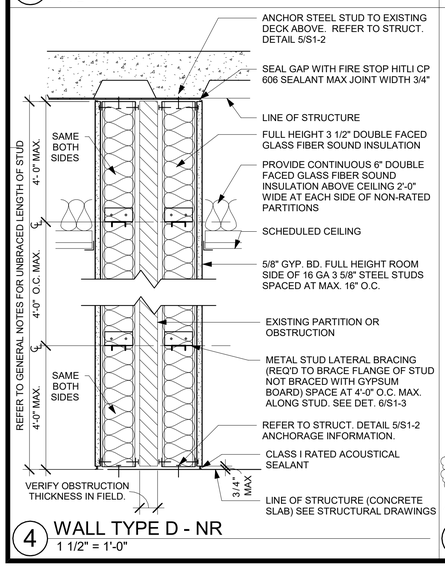
7 SHIELD WALL G - RF
1 1/2" = 1'-0"



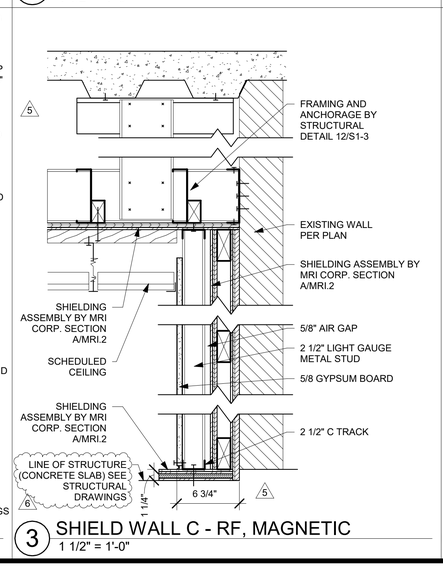
6 SHIELD WALL F - RF
1 1/2" = 1'-0"



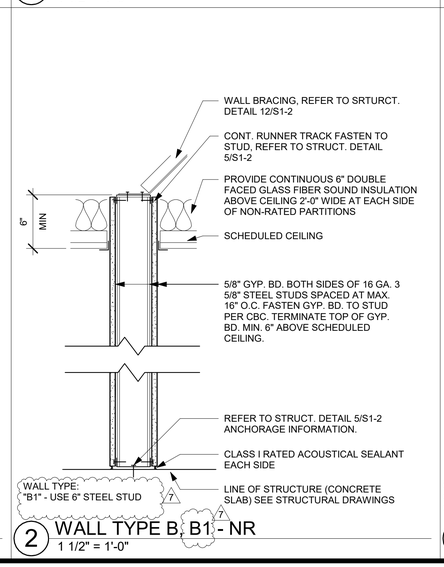
5 WALL TYPE E - NR, E1 - 1 HOUR FIRE RATED PARTITION
1 1/2" = 1'-0"



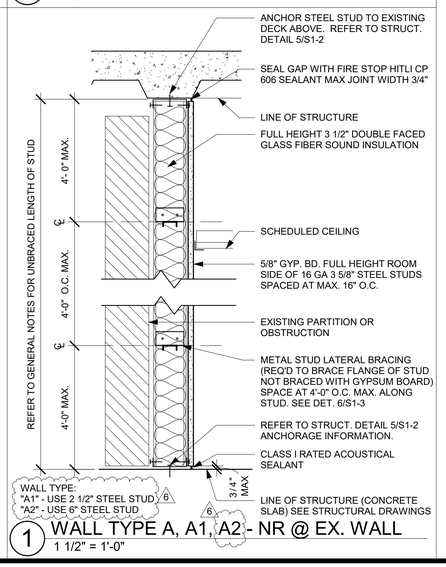
4 WALL TYPE D - NR
1 1/2" = 1'-0"



3 SHIELD WALL C - RF, MAGNETIC
1 1/2" = 1'-0"



2 WALL TYPE B, B1 - NR
1 1/2" = 1'-0"



1 WALL TYPE A, A1, A2 - NR @ EX. WALL
1 1/2" = 1'-0"

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ELECTRICAL:	AG DESIGN, INC. 171 S. ANITA DR. SUITE 111 ORANGE, CALIFRONIA 92868 TEL(714)769-9900 EXT. 201
SHIELDING:	MRI SHIELDING CORPORATION 3554 BUISNESS PARK DR., SUITE B COSTA MESA, CA 92626 TEL(714)545-7700
INTERIORS:	ISLEY DESIGN & PLANNING 1982 PALSERO AVENUE ESCONDIDO, CA 92029 TEL(760)484-0455

LICENSED ARCHITECT
JOSEPH MICHAEL SFEIR
No. C 28543
REN 1-31-23
STATE OF CALIFORNIA

1	1	OSHPD COMMENTS	8/3/2020
2	2	DESIGN CHANGES	8/10/2020
3	3	OSHPD COMMENTS	10/2/2020
4	4	OSHPD COMMENTS	11/24/2020
5	5	DESIGN CHANGES	11/24/2020
6	6	ACD 0001 DESIGN CHANGES	4/10/2021
7	7	ACD 0001 DESIGN CHANGES	5/8/2021

REV: DESCRIPTION: DATE:

CONSULTANT

OSHPD APPROVAL STAMP:

OSHPD #: S200813-37-00-ACD0001

SHEET TITLE:

TYPICAL RATED PARTITION ASSEMBLIES

PROJECT TITLE:

TCMC MRI

PROJECT #: 01907.01
DRAWN BY: MK
CHECKED BY: JS
SCALE: PER TITLE
DATE: 3/11/2020

SHEET NUMBER:

A5-10

100% - CONSTRUCTION DOCUMENTS

DEMOLITION KEYNOTES:

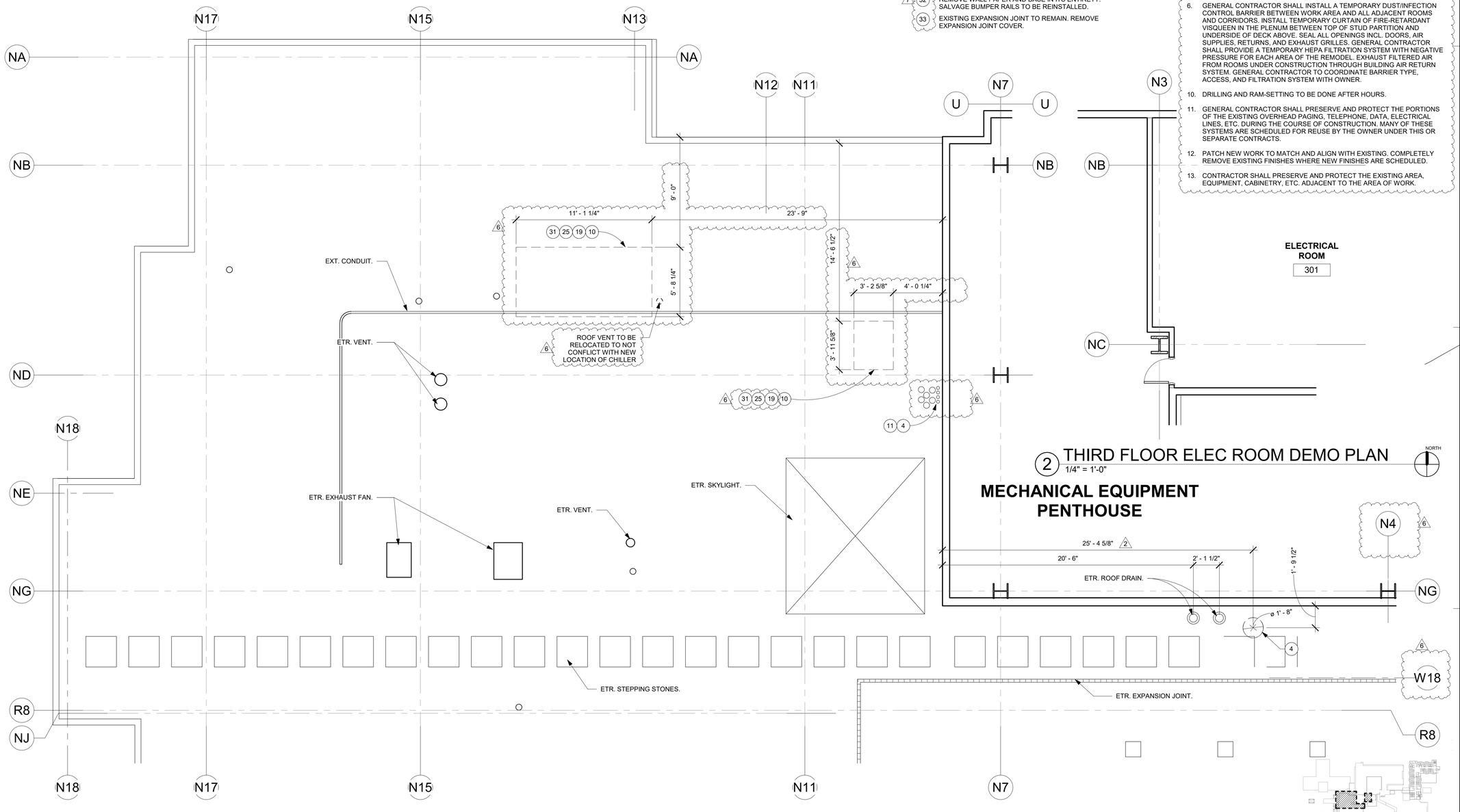
1. DEMOLISH WALL FOR A NEW DOOR. PER PLAN.
2. REMOVE EXISTING WALL.
3. REMOVE EXISTING DOOR, DOOR FRAME, & DOOR HARDWARE. SAVE DOOR OPERATOR FOR REINSTALLATION.
4. CORE DRILL IN THE METAL DECK/CONCETE DECK. REF. MECH & PLUMBING DWG & 7/S1-1. (5, 6)
5. REMOVE THE GYPBOARD FURRING AROUND THE COLUMN PER PLAN. LEAVE STRUCTURAL COLUMNIN PLACE.
6. EXISTING ELECTRICAL OUTLETS & SWITCHES TO REMAIN.
7. REMOVE THE EXISTING CABINETRY PER PLAN.
8. REMOVE THE EXISTING WINDOW AND FRAME COMPLETLY.
9. REMOVE THE EXISTING CONCRETE SLAB HIGHLIGHTED IN LIGHT GRAY. 6
10. PREPARE ROOF FOR A LEVELING PAD. SEE 1/A5-34 FOR EXTENT OF REMODEL. 6
11. PROVIDE PENTRATIONS FOR FUTURE USE. FILL WITH FIRE RATED ASSEMBLY.
12. REMOVE LOW PARTITION WALL.
13. ETR. GRADE BEAM. TOP OF BEAM 14" BELOW TOP OF CONCRETE. VERIFY.
14. ETR. BUILDING EXPANSION JOINT.
15. ETR. CABINETRY AND MILL WORK.
16. ETR. GROUND WIRE. PROTECT IN PLACE.
17. ETR. RECEPTION DESK.
18. ETR DOOR & DOOR FRAME. PRIME AND PAINT DOOR FRAME.
19. FIRE RESISTIVE CORRUGATED BOARD - Coroplast® Firewall FRB Class 94V-2 BELOW CEILING TO SEPARATE CONSTRUCTION AREA FROM ADJACENT AREA. TEMPORARY EXITING PROVISIONS SHALL MEET THE REQUIREMENTS OF OSHPD CAN 9-3301 AND CONSTRUCTION/INFECTION CONTROL BARRIER PLACEMENT SHALL BE COORDINATED WITH OSHPD FIELD FLSO AND HOSPITAL REPRESENTATIVE.
20. PROTECT OPENING DURING CONSTRUCTION AT ALL TIMES BY MAINTAINING 1 HOUR RATING OUTSIDE CONSTRUCTION HOURS. REMOVE DRYWALL IN IT'S ENTIRITY THROUGHOUT CORRIDOR PARTITION.
21. INFECTION CONTROL ANTEROOM. 3
22. 1/2" CEMENTITIOUS BOARD ON BOTH SIDE OF LIGHT WEIGHT METAL STUD PARTITION AND 4'-0" DOOR AND LOCK.
23. ERECT AND TIGHTLY SEAL ON TOP OF PARTITION AND TO UNDERSIDE OF DECK WITH FIRE RESISTIVE VISQUEEN. TAPE ALL EDGES TO STOP AIR LEAKAGE.
24. PROVIDE TWO ZIPPER CURTAINS OF FIRE RESISTANT VISQUEEN. TEMPORARY EXITING PROVISIONS SHALL MEET THE REQUIREMENTS OF OSHPD CAN 9-3301 AND THAT CONSTRUCTION/INFECTION CONTROL BARRIER PLACEMENT SHALL BE COORDINATED WITH OSHPD FIELD FLSO.
25. TEMPORARY 6'HIGH CHAINLINK FENCE WITH 4'-0" GATE WITH LOCK.
26. 1-HOUR RATED TEMPORARY GYPSUM WALL BOARD AND METAL STUD PARTITION AND DOOR. TEMPORARY EXITING PROVISION SHALL MEET THE REQUIREMENTS OF OSHPD CAN 9-3301. CONSTRUCTION/INFECTION CONTROL BARRIER PLACEMENT SHALL BE COORDINATED WITH OSHPD FIELD FLSO. 2
27. EXISTING ELECTRICAL PANELS TO REMAIN.
28. REMOVE EXISTING DRYWALL UP TO 10'-0" MAX PER STRUCTURAL DETAIL 5/S3-1. 5
29. DEMOLISH BENCH SEAT.
30. IN CONSTRUCTION AREA BELOW ROOF ANCHORAGE PROTECT ALL EQUIPMENT WITH DUST COVERS, REPLACE REMOVED VEILING TILES, REPLACE DAMAGED CEILING GRID. SEPARATE AREA OF CONSTRUCTION WITH INFECTION CONTROL. (6, 31)
31. REMOVE WALL PAPER AND BASE IN ITS ENTIRETY. SALVAGE BUMPER RAILS TO BE REINSTALLED. (7, 32)
32. EXISTING EXPANSION JOINT TO REMAIN. REMOVE EXPANSION JOINT COVER. 33

GENERAL NOTES:

1. THE GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND MEASUREMENTS IN THE FIELD PRIOR TO STARTING CONSTRUCTION.
2. REFER TO GENERAL NOTES ON SHEET A0-00 FOR INFORMATION NOT INDICATED ON THIS SHEET.

ROOF DEMOLITION NOTES: 6

3. DASHED LINES INDICATE ITEMS TO BE DEMOLISHED OR REMOVED. REFER TO RELATED PLANS, INCLUDING THE FLOOR PLANS, EQUIPMENT PLAN, CEILING PLANS, AND ROOM FINISH SCHEDULE ALONG WITH MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION FOR PORTIONS OF EXISTING CONSTRUCTION SCHEDULED TO REMAIN.
4. GENERAL CONTRACTOR SHALL X-RAY AND/OR ULTRASOUND THE EXISTING CONCRETE FLOORS, ROOF DECKS AND FLOOR ABOVE FOR ANY POSSIBLE EMBEDDED CONDUITS, STRUCTURAL REBAR, OR UNFORESEEN CONDITIONS OUTSIDE THE SCOPE OF WORK THAT MIGHT IMPEDE THE ANCHORING OF EQUIPMENT PRIOR TO CONSTRUCTION.
5. TYPICALLY CAP AND CLOSE ALL ABANDONED OPENINGS AT EXISTING SLAB. FILL AND PATCH TO LEVEL FLOOR PER DETAILS ON STRUCTURAL SHEETS. NOTIFY ARCHITECT OF UNCOVERED EXISTING CONDITIONS.
6. GENERAL CONTRACTOR SHALL INSTALL A TEMPORARY DUST/INFECTION CONTROL BARRIER BETWEEN WORK AREA AND ALL ADJACENT ROOMS AND CORRIDORS. INSTALL TEMPORARY CURTAIN OF FIRE-RETARDANT VISQUEEN IN THE PLENUM BETWEEN TOP OF STUD PARTITION AND UNDERSIDE OF DECK ABOVE SEAL ALL OPENINGS INCL. DOORS, AIR SUPPLIES, RETURNS, AND EXHAUST GRILLES. GENERAL CONTRACTOR SHALL PROVIDE A TEMPORARY HEPA FILTRATION SYSTEM WITH NEGATIVE PRESSURE FOR EACH AREA OF THE REMODEL. EXHAUST FILTERED AIR FROM ROOMS UNDER CONSTRUCTION THROUGH BUILDING AIR RETURN SYSTEM. GENERAL CONTRACTOR TO COORDINATE BARRIER TYPE, ACCESS, AND FILTRATION SYSTEM WITH OWNER.
10. DRILLING AND RAM-SETTING TO BE DONE AFTER HOURS.
11. GENERAL CONTRACTOR SHALL PRESERVE AND PROTECT THE PORTIONS OF THE EXISTING OVERHEAD PAGING, TELEPHONE, DATA, ELECTRICAL LINES, ETC. DURING THE COURSE OF CONSTRUCTION. MANY OF THESE SYSTEMS ARE SCHEDULED FOR REUSE BY THE OWNER UNDER THIS OR SEPARATE CONTRACTS.
12. PATCH NEW WORK TO MATCH AND ALIGN WITH EXISTING. COMPLETELY REMOVE EXISTING FINISHES WHERE NEW FINISHES ARE SCHEDULED.
13. CONTRACTOR SHALL PRESERVE AND PROTECT THE EXISTING AREA, EQUIPMENT, CABINETRY, ETC. ADJACENT TO THE AREA OF WORK.



1 SECOND FLOOR ROOF DEMO PLAN
1/4" = 1'-0"

2 THIRD FLOOR ELEC ROOM DEMO PLAN
1/4" = 1'-0"

NORTH

KEY PLAN

S F E I R
A R C H I T E C T S

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TCMC MRI

Tri-City Medical Center

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OCEANSIDE CA, 92056

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LICENSED ARCHITECT
JOSEPH MICHAEL SFEIR
No. C 28543
REN. 1-31-23
STATE OF CALIFORNIA

1	1	OSHPD COMMENTS	8/3/2020
2	2	DESIGN CHANGES	8/10/2020
3	3	OSHPD COMMENTS	10/2/2020
4	4	OSHPD COMMENTS	11/24/2020
5	5	DESIGN CHANGES	11/24/2020
6	6	ACD 0001 DESIGN CHANGES	4/10/2021
7	7	ACD 0001 DESIGN CHANGES	5/8/2021

REV: DESCRIPTION: DATE:

CONSULTANT

OSHPD APPROVAL STAMP:

OSHPD #: S200813-37-00-ACD0001

SHEET TITLE:

1/4" UPPER ROOF DEMO PLAN

PROJECT TITLE:

TCMC MRI

PROJECT #: 01907.01
DRAWN BY: Author
CHECKED BY: Checker
SCALE: PER TITLE
DATE: 3/11/2020

SHEET NUMBER:

A5-30

100% - CONSTRUCTION DOCUMENTS

DEMOLITION KEYNOTES:

1. DEMOLISH WALL FOR A NEW DOOR. PER PLAN.
2. REMOVE EXISTING WALL.
3. REMOVE EXISTING DOOR, DOOR FRAME, & DOOR HARDWARE. SAVE DOOR OPERATOR FOR REINSTALLATION.
4. CORE DRILL IN THE METAL DECK/CONCETE DECK. REF. MECH & PLUMBING DWG & 7/S1-1 (6)
5. REMOVE THE GYPBOARD FURRING AROUND THE COLUMN PER PLAN. LEAVE STRUCTURAL COLUMNIN PLACE.
6. EXISTING ELECTRICAL OUTLETS & SWITCHES TO REMAIN.
7. REMOVE THE EXISTING CABINETRY PER PLAN.
8. REMOVE THE EXISTING WINDOW AND FRAME COMPLETLY.
9. REMOVE THE EXISTING CONCRETE SLAB HIGHLIGHTED IN LIGHT GRAY (6)
10. PREPARE ROOF FOR A LEVELING PAD. SEE 1/A5-34 FOR EXTENT OF REMODEL (6)
11. PROVIDE PENTRATIONS FOR FUTURE USE. FILL WITH FIRE RATED ASSEMBLY.
12. REMOVE LOW PARTITION WALL.
13. ETR. GRADE BEAM. TOP OF BEAM 14" BELOW TOP OF CONCRETE. VERIFY.
14. ETR. BUILDING EXPANSION JOINT.
15. ETR. CABINETRY AND MILL WORK.
16. ETR. GROUND WIRE. PROTECT IN PLACE.
17. ETR. RECEPTION DESK.
18. ETR DOOR & DOOR FRAME. PRIME AND PAINT DOOR FRAME.
19. FIRE RESISTIVE CORRUGATED BOARD - Coroplast® Firewall FRB Class 94V-2 BELOW CEILING TO SEPARATE CONSTRUCTION AREA FROM ADJACENT AREA. TEMPORARY EXITING PROVISIONS SHALL MEET THE REQUIREMENTS OF OSHPD CAN 9-3301 AND CONSTRUCTION/INFECTION CONTROL BARRIER PLACEMENT SHALL BE COORDINATED WITH OSHPD FIELD FLSO AND HOSPITAL REPRESENTATIVE.
20. PROTECT OPENING DURING CONSTRUCTION AT ALL TIMES BY MAINTAINING 1 HOUR RATING OUTSIDE CONSTRUCTION HOURS.
21. REMOVE DRYWALL IN IT'S ENTIRITY THROUGHOUT CORRIDOR PARTITION.
22. INFECTION CONTROL ANTEROOM. (3)
23. 1/2" CEMENTITIOUS BOARD ON BOTH SIDE OF LIGHT WEIGHT METAL STUD PARTITION AND 4'-0" DOOR AND LOCK.
24. ERECT AND TIGHTLY SEAL ON TOP OF PARTITION AND TO UNDERSIDE OF DECK WITH FIRE RESISTIVE VISQUEEN. TAPE ALL EDGES TO STOP AIR LEAKAGE.
25. PROVIDE TWO ZIPPER CURTAINS OF FIRE RESISTANT VISQUEEN. TEMPORARY EXITING PROVISIONS SHALL MEET THE REQUIREMENTS OF OSHPD CAN 9-3301 AND THAT CONSTRUCTION/INFECTION CONTROL BARRIER PLACEMENT SHALL BE COORDINATED WITH OSHPD FIELD FLSO.
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28. EXISTING ELECTRICAL PANELS TO REMAIN.
29. REMOVE EXISTING DRYWALL UP TO 10'-0" MAX PER STRUCTURAL DETAIL 5/S3-1. (5)
30. DEMOLISH BENCH SEAT.
31. IN CONSTRUCTION AREA BELOW ROOF ANCHORAGE PROTECT ALL EQUIPMENT WITH DUST COVERS, REPLACE REMOVED VEILING TILES, REPLACE DAMAGED CEILING GRID. SEPARATE AREA OF CONSTRUCTION WITH INFECTION CONTROL. (6)
32. REMOVE WALL PAPER AND BASE IN ITS ENTIRETY. SALVAGE BUMPER RAILS TO BE REINSTALLED. (7)
33. EXISTING EXPANSION JOINT TO REMAIN. REMOVE EXPANSION JOINT COVER.

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ROOF DEMOLITION NOTES: (6)

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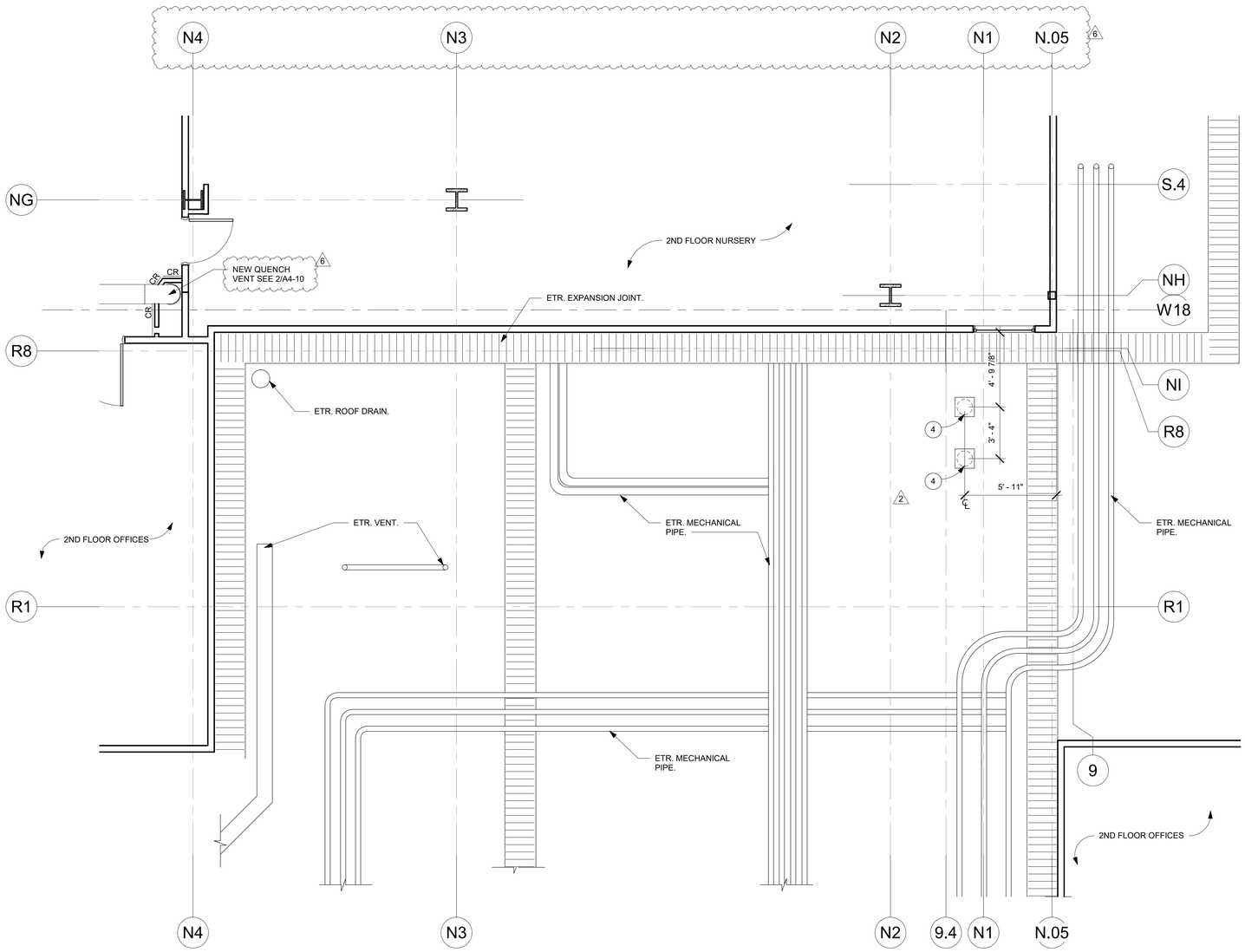

1 FIRST FLOOR ROOF DEMO PLAN
1/4" = 1'-0"

NORTH

KEY PLAN

S F E I R
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LICENSED ARCHITECT
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No. C 28543
REN. 1-31-23
STATE OF CALIFORNIA

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1	1	OSHPD COMMENTS	8/3/2020
2	2	DESIGN CHANGES	8/10/2020
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4	4	OSHPD COMMENTS	11/24/2020
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6	6	ACD 0001 DESIGN CHANGES	4/10/2021
7	7	ACD 0001 DESIGN CHANGES	5/8/2021

CONSULTANT

OSHPD APPROVAL STAMP:

OSHPD #: S200813-37-00-ACD0001

SHEET TITLE:

1/4" LOWER ROOF DEMO PLAN

PROJECT TITLE:

TCMC MRI

PROJECT #: 01907.01
DRAWN BY: Author
CHECKED BY: Checker
SCALE: PER TITLE
DATE: 3/11/2020

SHEET NUMBER:

A5-31

100% - CONSTRUCTION DOCUMENTS

ROOF PLAN KEYNOTES:

1. NOT USED.
2. NOT USED.
3. NOT USED.
4. NOT USED.
5. NEW ELECTRICAL PANEL. SEE ELECTRICAL DRAWINGS AND 4/S4-1 FOR ANCHORAGE.
6. INSTALL GALVANIZED ROUND DUCT, ATTACHING TO THE ADJACENT WALL. SEE STRUCTURAL DRAWINGS.
7. INSTALL WATER PROOFING AROUND ROOF PENETRATION.
8. INSTALL GE MRI CHILLER ON TOP OF STEEL CURBS PER DETAILS SHOWN.
9. INSTALL CONDENSERS ON TOP OF STEEL CURBS PER DETAILS SHOWN.
10. PLUG FUTURE PENETRATIONS WITH FIRE RESISTIVE AND WATER PROOF MATERIAL.
11. NEW PRESSURE RELEASE EXHAUST FAN.
12. HOT DIPPED GALVANIZED 16 GAUGE WELDED SHEET METAL BOX.
13. ETR. VENT.
14. ETR. EXHAUST FAN.
15. ETR. ROOF DRAIN.
16. ETR. CONDUIT.
17. ETR. BUILDING EXPANSION JOINT.
18. INTERIOR 2ND FLOOR OF THE BUILDING.
19. ETR. UTILITY PIPE.
20. NEW EXHAUST FAN.
21. EXTENT OF WATERPROOFING MEMBRANE.
22. ETR. SKYLIGHT.
23. ETR. STEPPING PADS.
24. NEW QUENCH VENT.
25. EXISTING EQUIPMENT TO REMAIN.
26. NEW TRANSFORMER. SEE ITEM 79 ON SCHEDULE ON S2-10 AND 1/E5-32. PRIME AND PAINT PAD.
27. NEW ELECTRICAL PANEL. SEE ITEM 80 ON SCHEDULE ON S2-10 AND 1/E5-32. PRIME AND PAINT PAD.
28. NEW FURR OUT PARTITION.
29. TWO KICKERS EACH END OF WALL PER DETAIL 12A/S1-2.
30. RELOCATED ROOF VENT. GENERAL CONTRACTOR TO COORDINATE PRECISE LOCATION. WEATHERPROOF WITH CHEM CURB SIMILAR TO DETAIL 12/A5-34.
31. GENERAL CONTRACTOR TO VERIFY ACCESS BELOW ROOF AND ABOVE CEILING BELOW FOR NEW VENT AND ANCHORAGE.
32. ADD 2 HOUR FIRE RATE BEHIND PANEL.

DELETED

GENERAL NOTES:

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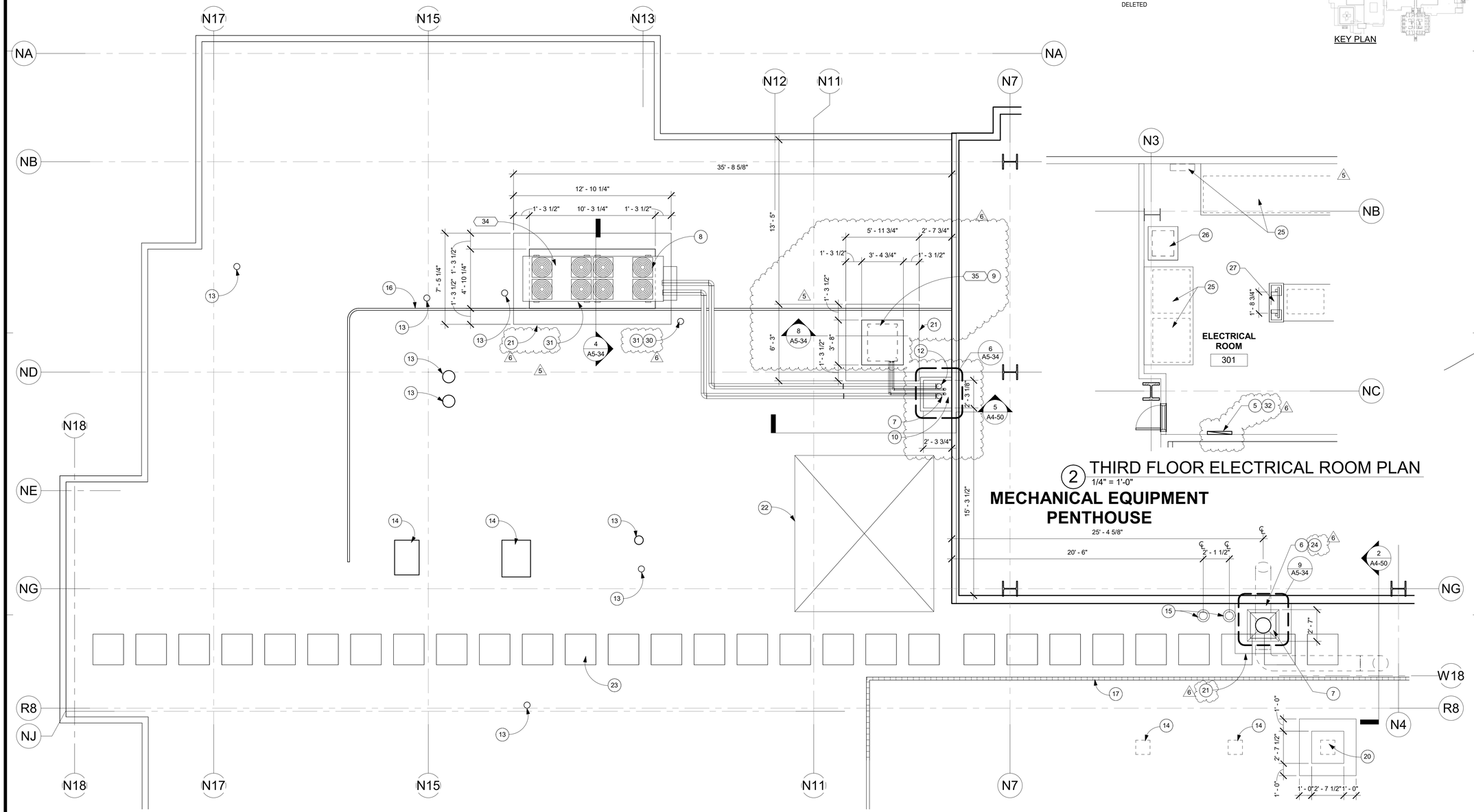
2. REFER TO GENERAL NOTES ON SHEET A0-00 FOR INFORMATION NOT INDICATED ON THIS SHEET.

KEY PLAN



1 SECOND FLOOR ROOF PLAN
1/4" = 1'-0"

2 THIRD FLOOR ELECTRICAL ROOM PLAN
1/4" = 1'-0"

NORTH

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LICENSED ARCHITECT
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REN 1-31-22
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1	1	OSHPD COMMENTS	8/3/2020
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REV: DESCRIPTION: DATE:

CONSULTANT

OSHPD APPROVAL STAMP:
OSHPD #: S200813-37-00-ACD0001

SHEET TITLE:
1/4" UPPER ROOF PLAN

PROJECT TITLE:
TCMC MRI

PROJECT #: 01907.01
DRAWN BY: Author
CHECKED BY: Checker
SCALE: PER TITLE
DATE: 3/11/2020

SHEET NUMBER:
A5-32

100% - CONSTRUCTION DOCUMENTS

ROOF PLAN KEYNOTES:

1. NOT USED.
2. NOT USED.
3. NOT USED.
4. NOT USED.
5. NEW ELECTRICAL PANEL. SEE ELECTRICAL DRAWINGS AND 4/S4-1 FOR ANCHORAGE.
6. INSTALL GALVANIZED ROUND DUCT, ATTACHING TO THE ADJACENT WALL. SEE STRUCTURAL DRAWINGS.
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28. NEW FURR OUT PARTITION.
29. TWO KICKERS EACH END OF WALL PER DETAIL 12/A/S1-2. (3)
30. RELOCATED ROOF VENT. GENERAL CONTRACTOR TO COORDINATE PRECISE LOCATION. WEATHERPROOF WITH CHEM CURB SIMILAR TO DETAIL 12/A5-34. (6)
31. GENERAL CONTRACTOR TO VERIFY ACCESS BELOW ROOF AND ABOVE CEILING BELOW FOR NEW VENT AND ANCHORAGE.
32. ADD 2 HOUR FIRE RATE BEHIND PANEL.

GENERAL NOTES:

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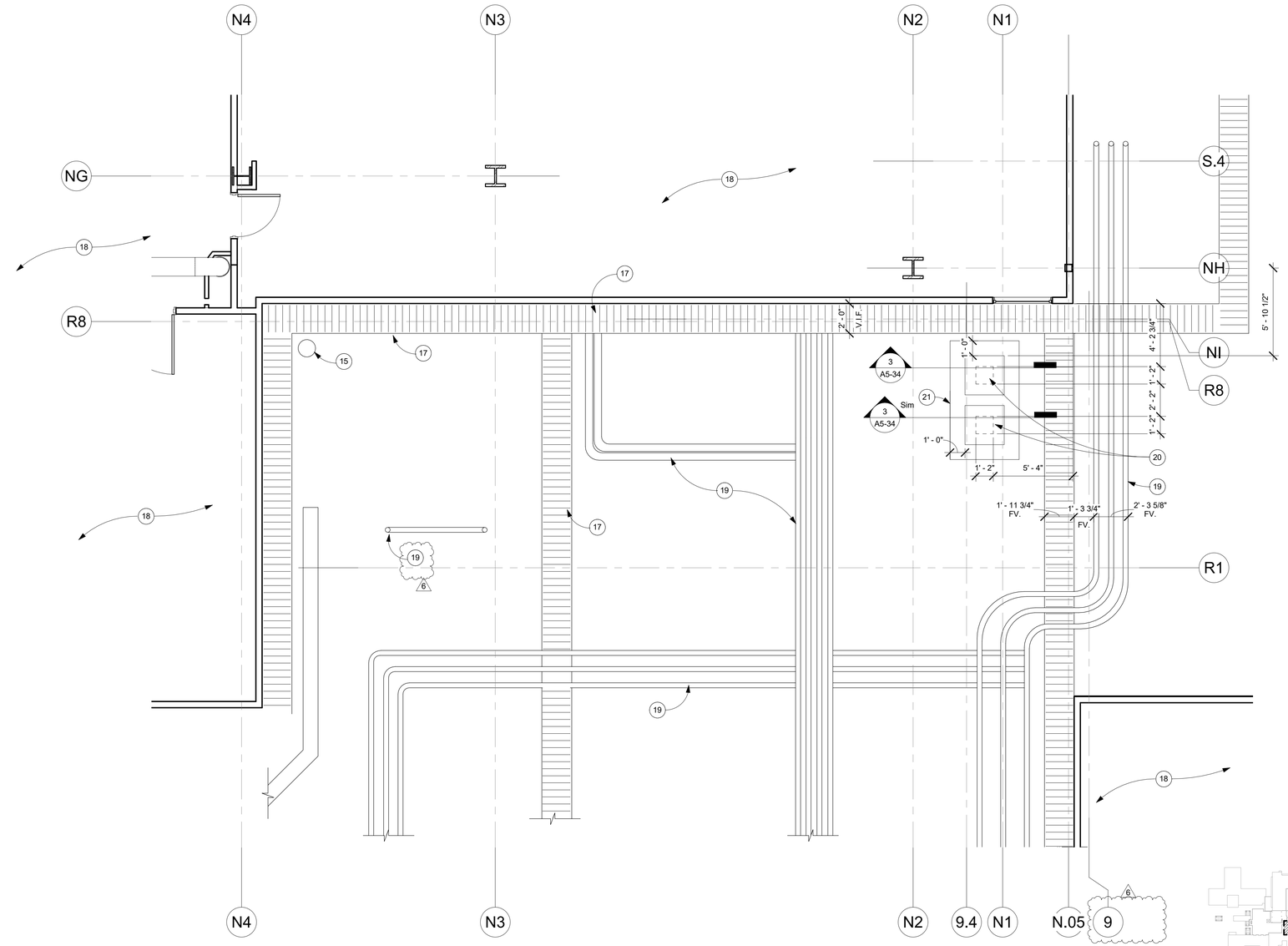

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STATE OF CALIFORNIA

1	1	OSHPD COMMENTS	8/3/2020
2	2	DESIGN CHANGES	8/10/2020
3	3	OSHPD COMMENTS	10/2/2020
4	4	OSHPD COMMENTS	11/24/2020
5	5	DESIGN CHANGES	11/24/2020
6	6	ACD 0001 DESIGN CHANGES	4/10/2021
7	7	ACD 0001 DESIGN CHANGES	5/8/2021

REV: DESCRIPTION: DATE:

CONSULTANT

OSHPD APPROVAL STAMP:
OSHPD #: S200813-37-00-ACD0001

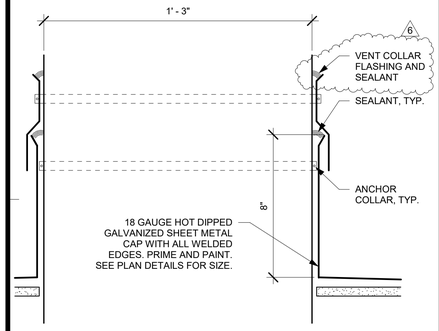
SHEET TITLE:
1/4" LOWER ROOF PLAN

PROJECT TITLE:
TCMC MRI

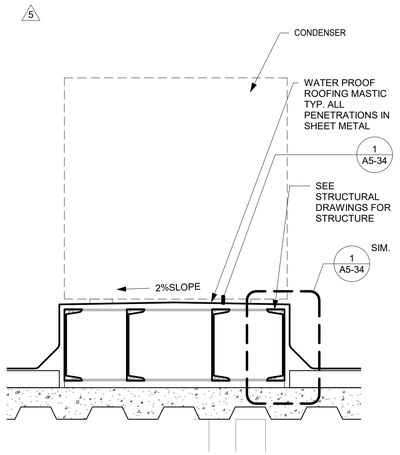
PROJECT #: 01907.01
DRAWN BY: Author
CHECKED BY: Checker
SCALE: PER TITLE
DATE: 3/11/2020

SHEET NUMBER:
A5-33

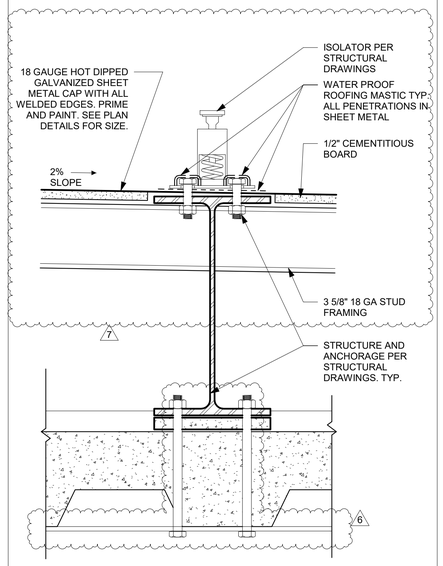
100% - CONSTRUCTION DOCUMENTS



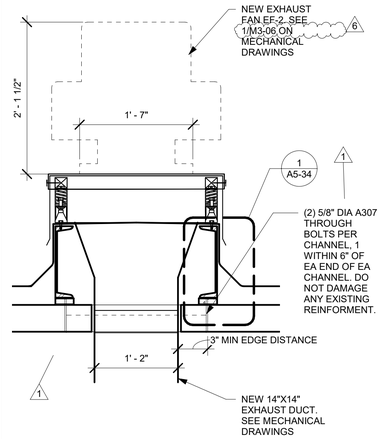
11 DUCT COLLAR.
3" = 1'-0"



8 CONDENSING UNIT
1" = 1'-0"



5 CHILLER- WATERPROOFING
3" = 1'-0"



3 EXHAUST FAN 2 SECTION DETAIL
1" = 1'-0"

GENERAL NOTES:

1. THE GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND MEASUREMENTS IN THE FIELD PRIOR TO STARTING CONSTRUCTION.
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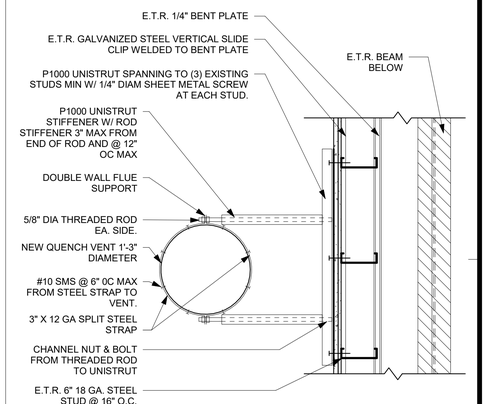
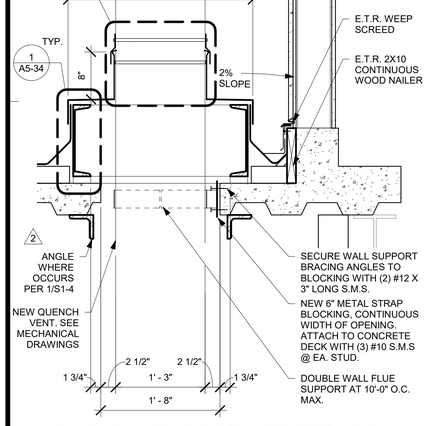
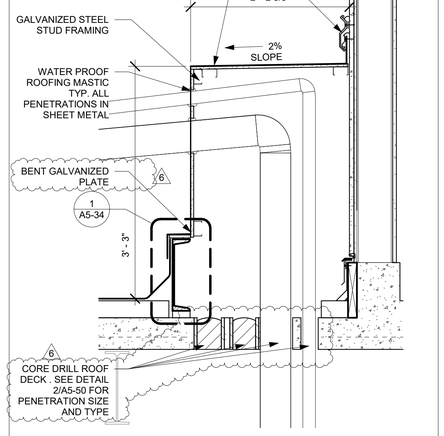


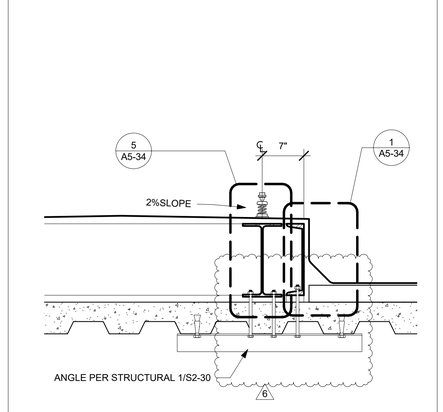
3 QUENCH VENT (E) WALL ANCHORAGE PLAN DETAIL
1" = 1'-0"



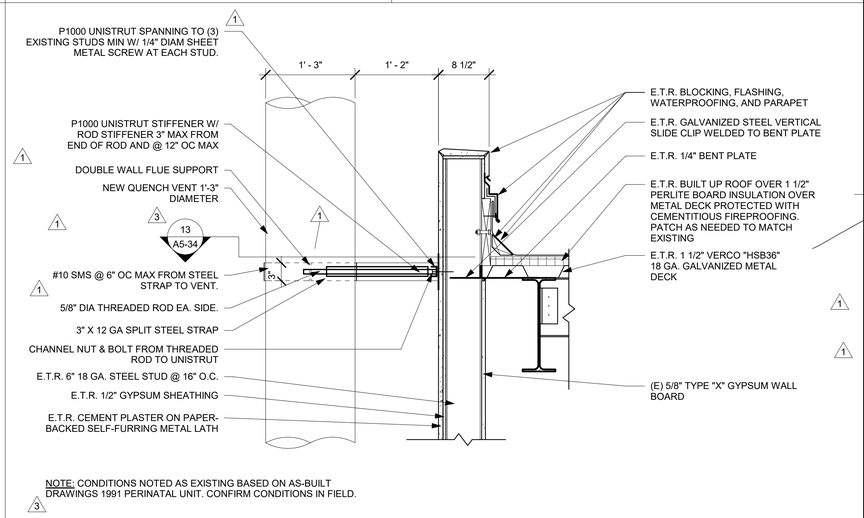
10 QUENCH VENT ROOF PENETRATION SECTION
1" = 1'-0"



7 METAL PLUMBING BOX SECTION
1" = 1'-0"

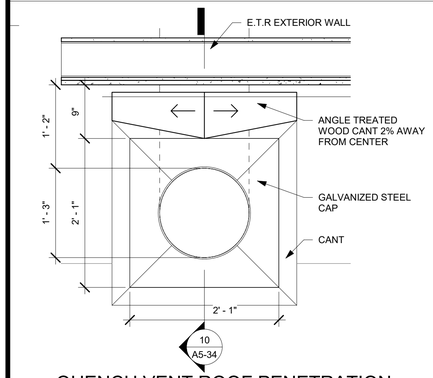


4 SECTION GE CHILLER
1" = 1'-0"

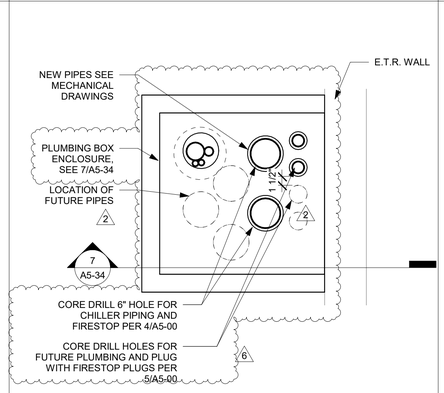


NOTE: CONDITIONS NOTED AS EXISTING BASED ON AS-BUILT DRAWINGS 1991 PERINATAL UNIT. CONFIRM CONDITIONS IN FIELD.

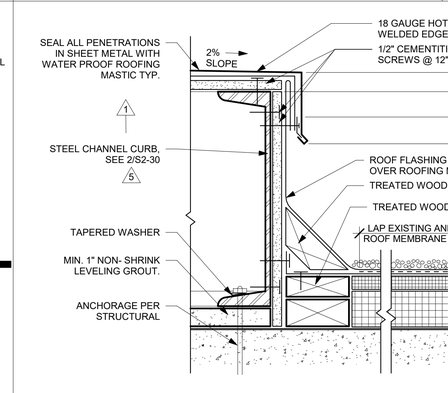
2 QUENCH VENT (E) WALL ANCHORAGE SECTION
1" = 1'-0"



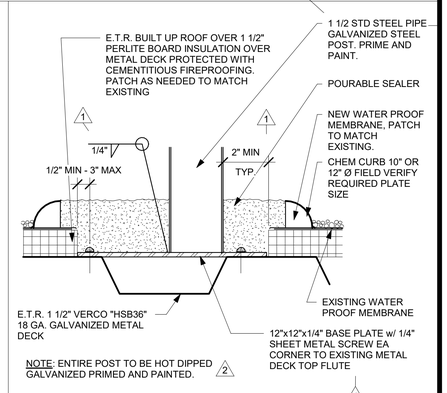
9 QUENCH VENT ROOF PENETRATION PLAN DETAIL
1" = 1'-0"



6 METAL PLUMBING BOX PLAN
1" = 1'-0"



1 TYPICAL ROOF CURB
3" = 1'-0"



NOTE: ENTIRE POST TO BE HOT DIPPED GALVANIZED PRIMED AND PAINTED.

12 CHEM CURB
3" = 1'-0"

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LICENSED ARCHITECT
JOSEPH MICHEL SFEIR
No. C 28543
REN. 1-31-20
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7	ACD 0001 DESIGN CHANGES	5/8/2021

CONSULTANT

OSHPD APPROVAL STAMP:

OSHPD #: S200813-37-00-ACD0001

SHEET TITLE:

ROOF DETAILS PLAN & SECTION

PROJECT TITLE:

TCMC MRI

PROJECT #: 01907.01
DRAWN BY: Author
CHECKED BY: Checker
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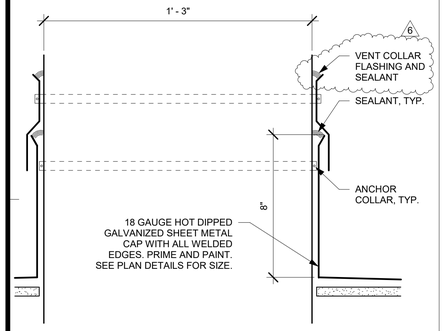
DATE: 3/11/2020

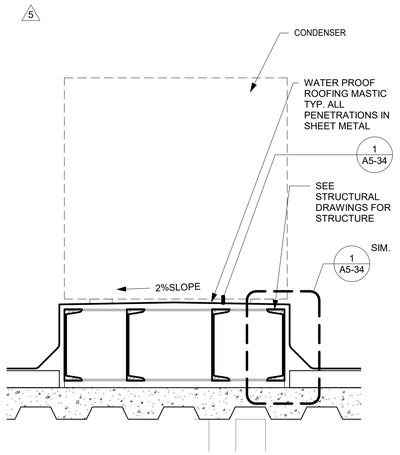
SHEET NUMBER:

A5-34

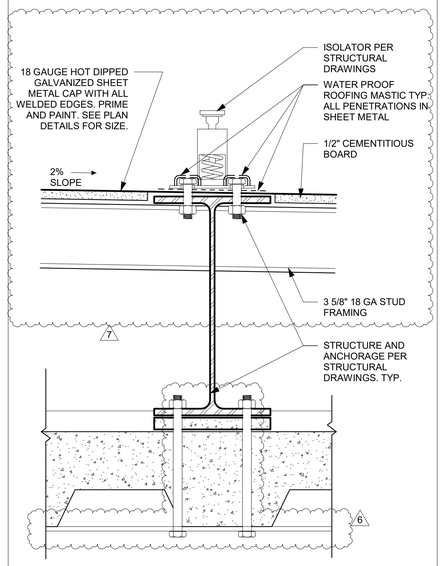
100% - CONSTRUCTION DOCUMENTS



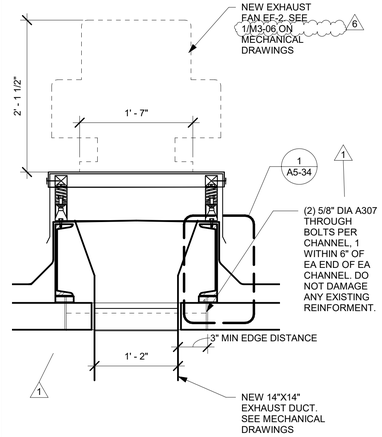
11 DUCT COLLAR.
3" = 1'-0"



8 CONDENSING UNIT
1" = 1'-0"



5 CHILLER- WATERPROOFING
3" = 1'-0"



3 EXHAUST FAN 2 SECTION DETAIL
1" = 1'-0"

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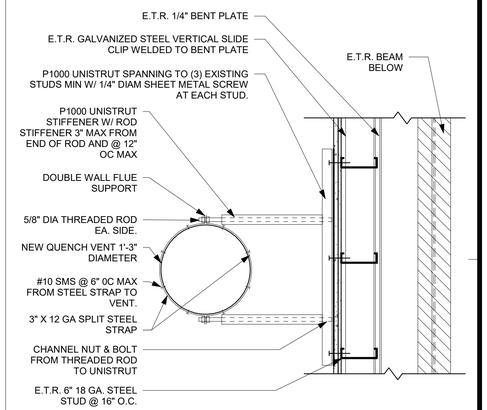
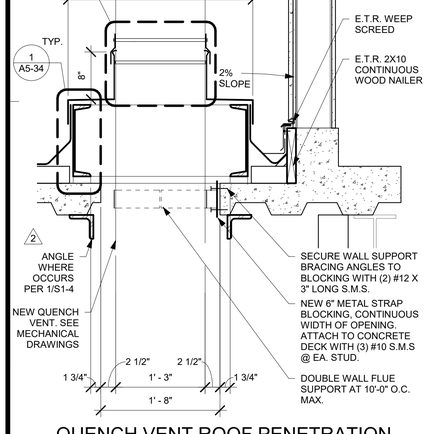
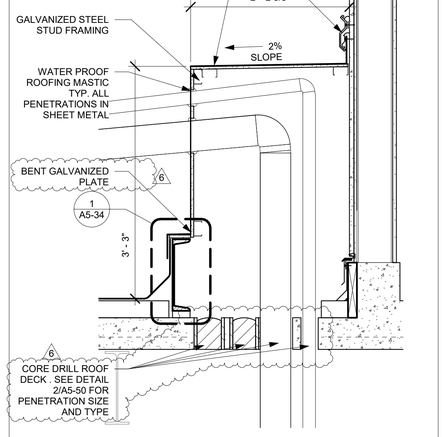


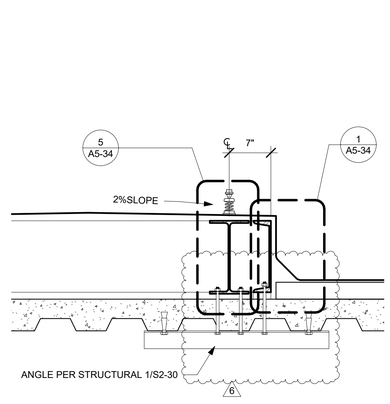
13 QUENCH VENT (E) WALL ANCHORAGE PLAN DETAIL
1" = 1'-0"



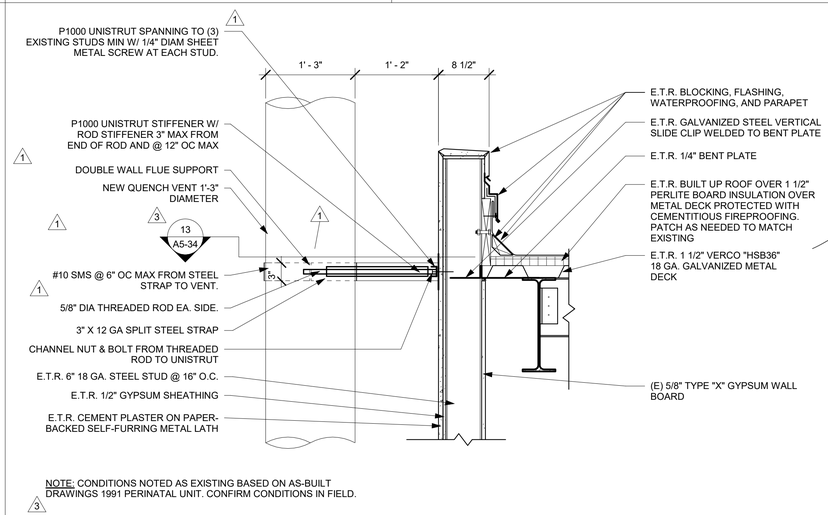
10 QUENCH VENT ROOF PENETRATION SECTION
1" = 1'-0"



7 METAL PLUMBING BOX SECTION
1" = 1'-0"



4 SECTION GE CHILLER
1" = 1'-0"



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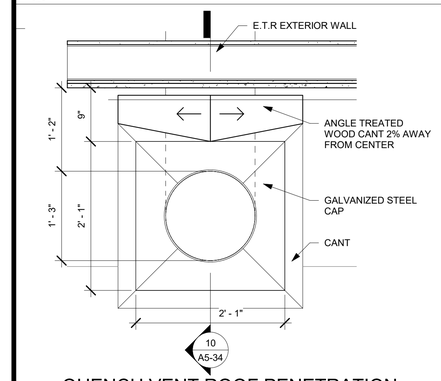
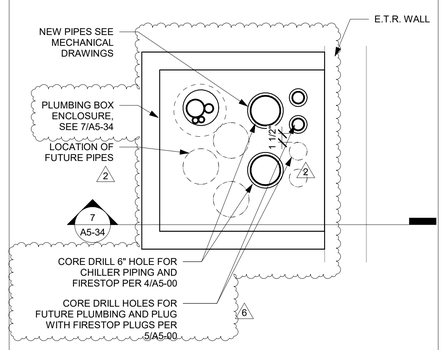
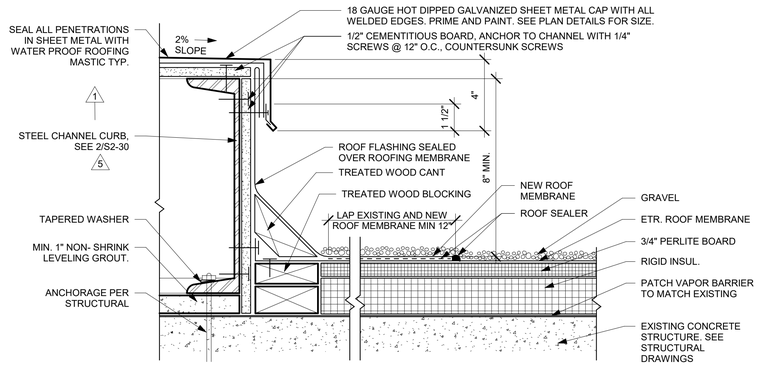
2 QUENCH VENT (E) WALL ANCHORAGE SECTION
1" = 1'-0"



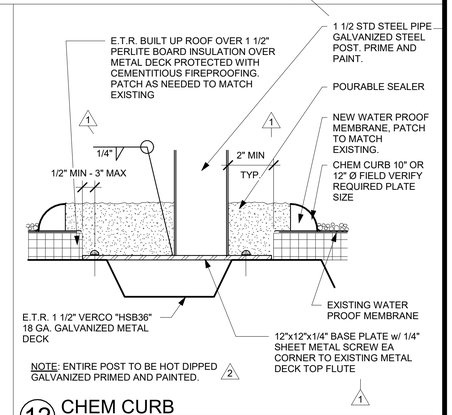
9 QUENCH VENT ROOF PENETRATION PLAN DETAIL
1" = 1'-0"



6 METAL PLUMBING BOX PLAN
1" = 1'-0"



1 TYPICAL ROOF CURB
3" = 1'-0"



12 CHEM CURB
3" = 1'-0"

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No. C 28543
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CONSULTANT

OSHPD APPROVAL STAMP:

OSHPD #: S200813-37-00-ACD0001

SHEET TITLE:

ROOF DETAILS PLAN & SECTION

PROJECT TITLE:

TCMC MRI

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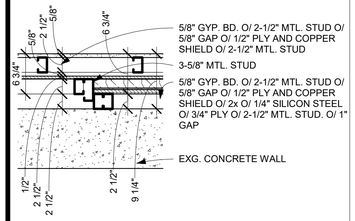
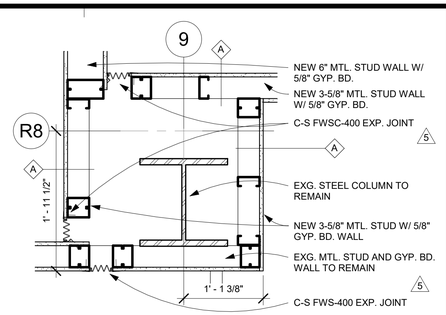
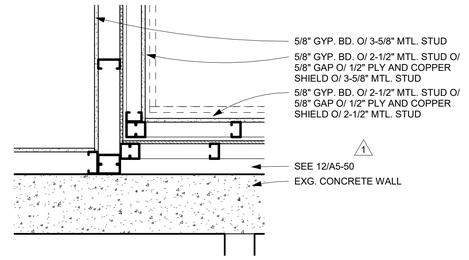


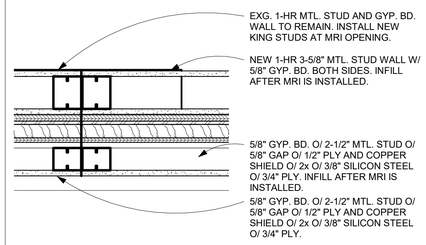
12 MRI WALL TRANSITION
1" = 1'-0"



10 COLUMN - READING ROOM
1" = 1'-0"



8 MRI WALL CONNECTION - 02
1" = 1'-0"



4 MRI WALL OPENING
1 1/2" = 1'-0"

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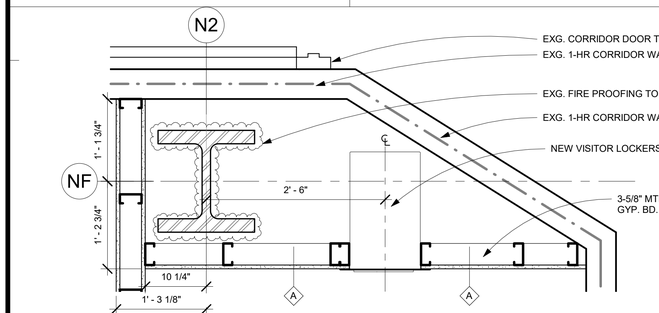
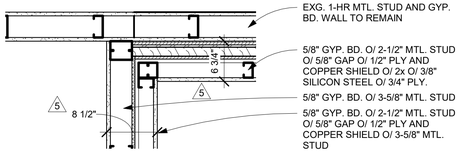
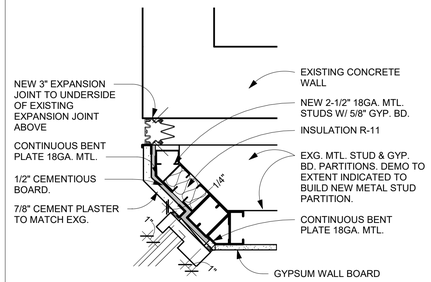


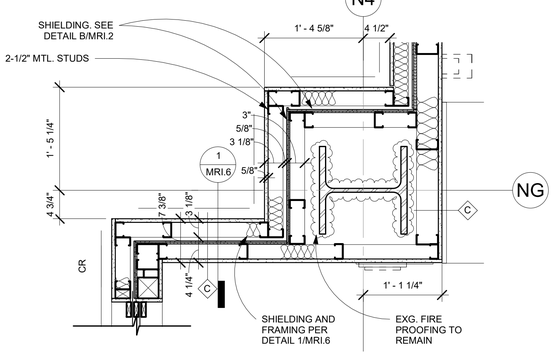
11 COLUMN - SUB-WAITING
1" = 1'-0"

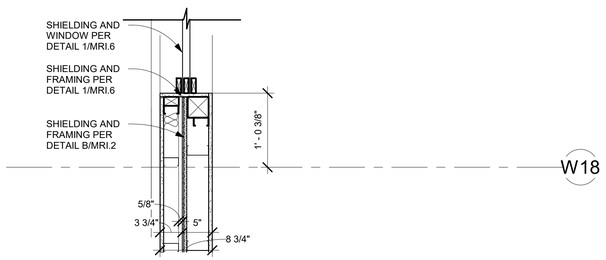


7 MRI WALL CONNECTION - 01
1" = 1'-0"

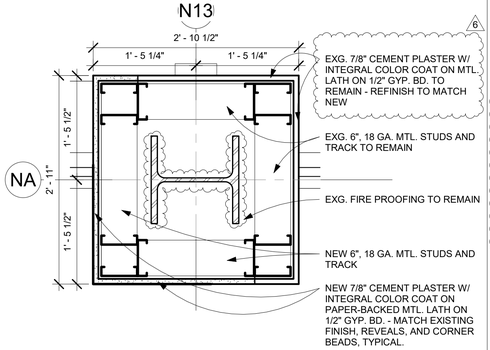


3 ENTRY DOOR RENOVATION
1 1/2" = 1'-0"

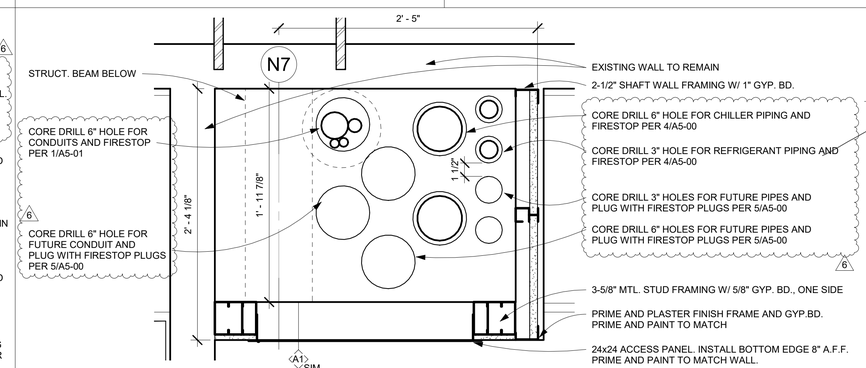




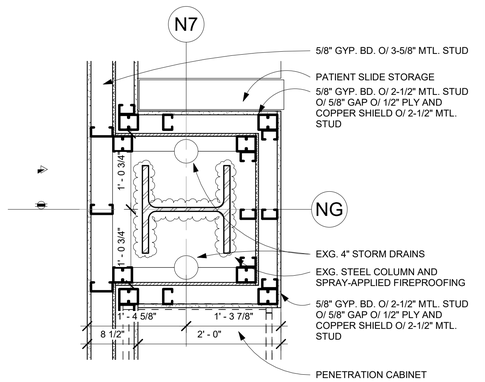
9 COLUMN - MRI ROOM - N4,NG
1" = 1'-0"



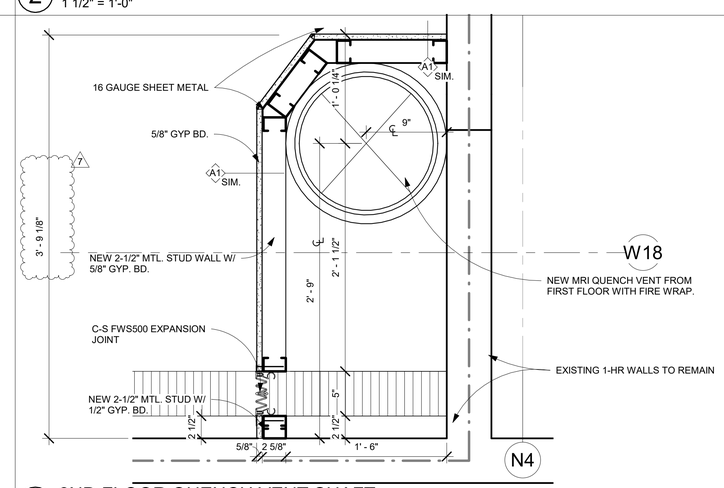
6 COLUMN - EXTERIOR
1" = 1'-0"



2 2ND FLOOR PLUMBING PENETRATIONS
1 1/2" = 1'-0"



5 COLUMN - MRI ROOM - N7,NG
1" = 1'-0"



1 2ND FLOOR QUENCH VENT SHAFT
1 1/2" = 1'-0"

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ELECTRICAL:	AG DESIGN, INC. 171 S. ANITA DR. SUITE 111 ORANGE, CALIFRONIA 92868 TEL(714)769-9900 EXT. 201
SHIELDING:	MRI SHIELDING CORPORATION 3554 BUISNESS PARK DR., SUITE B COSTA MESA, CA 92626 TEL(714)545-7700
INTERIORS:	ISLEY DESIGN & PLANNING 1982 PALSERO AVENUE ESCONDIDO, CA 92029 TEL(760)484-0455

LICENSED ARCHITECT
JOSEPH MICHEL SFEIR
No. C 28543
REN. 1-31-20
STATE OF CALIFORNIA

REV:		DESCRIPTION:	DATE:
1	1	OSHPD COMMENTS	8/3/2020
2	2	DESIGN CHANGES	8/10/2020
3	3	OSHPD COMMENTS	10/2/2020
4	4	OSHPD COMMENTS	11/24/2020
5	5	DESIGN CHANGES	11/24/2020
6	6	ACD 0001 DESIGN CHANGES	4/10/2021
7	7	ACD 0001 DESIGN CHANGES	5/8/2021

CONSULTANT

OSHPD APPROVAL STAMP:

OSHPD #: S200813-37-00-ACD0001

SHEET TITLE:

PLAN DETAILS

PROJECT TITLE:

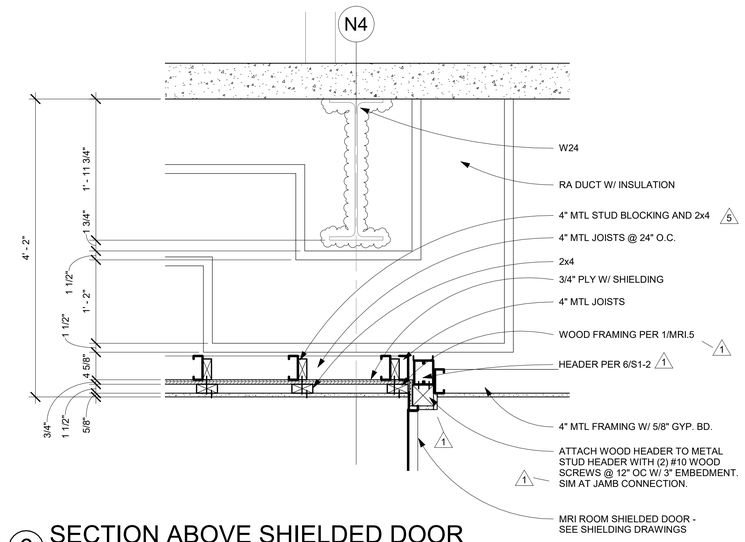
TCMC MRI

PROJECT #: 01907.01
DRAWN BY: Author
CHECKED BY: Checker
SCALE: PER TITLE
DATE: 3/11/2020

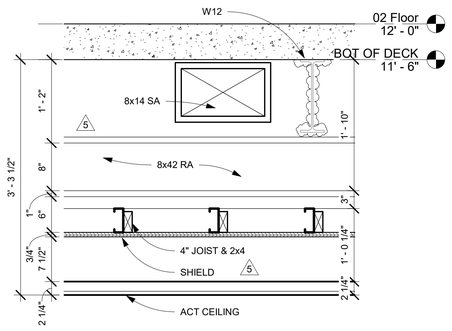
SHEET NUMBER:

A5-50

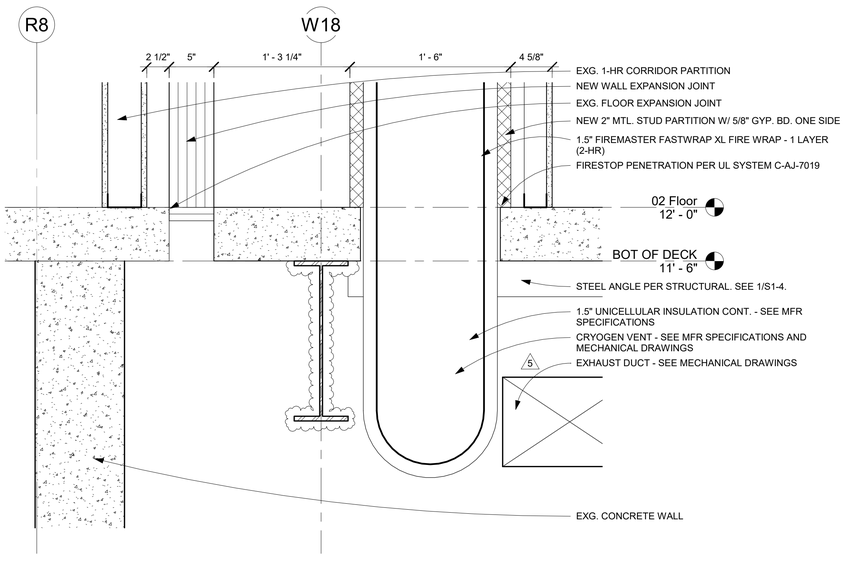
100% - CONSTRUCTION DOCUMENTS



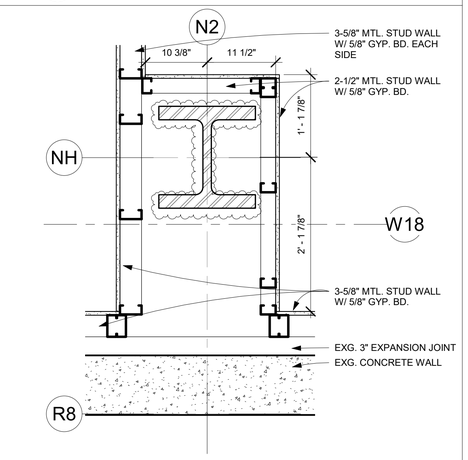
6 SECTION ABOVE SHIELDED DOOR
1" = 1'-0"



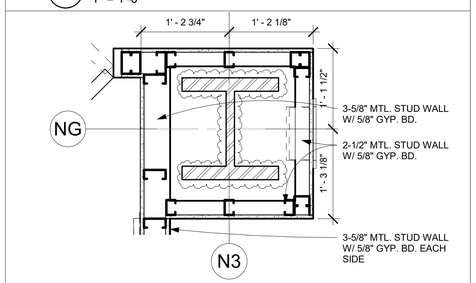
3 MRI HVAC
1" = 1'-0"



5 QUENCH VENT 2ND FLR PENETRATION 2
1 1/2" = 1'-0"



2 COLUMN - SUB WAIT RM
1" = 1'-0"



1 COLUMN - PATIENT RESTROOM
1" = 1'-0"

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S F E I R
A R C H I T E C T S

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TCMC MRI

Tri-City Medical Center

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OCEANSIDE CA, 92056

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ARCHITECT:	SFEIR ARCHITECTS 5151 SHOREHAM PL SUITE 265 SAN DIEGO, CALIFORNIA 92122 TEL(619)299-3917
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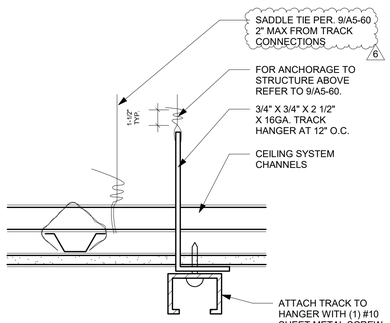
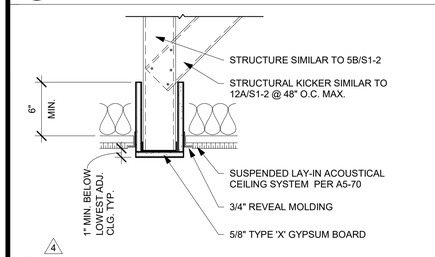
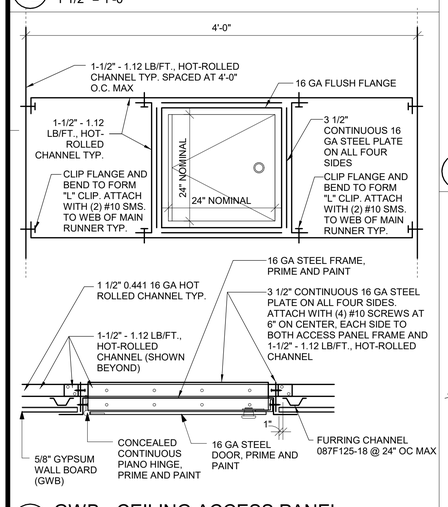
SHEET NUMBER:

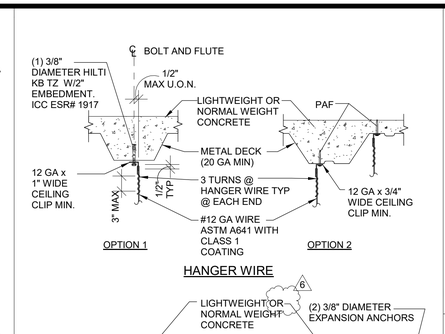
A5-51

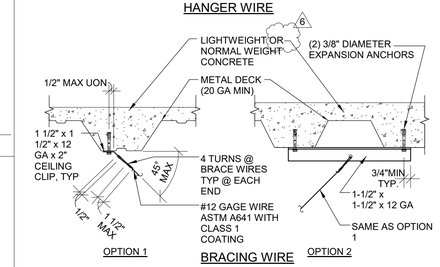
100% - CONSTRUCTION DOCUMENTS

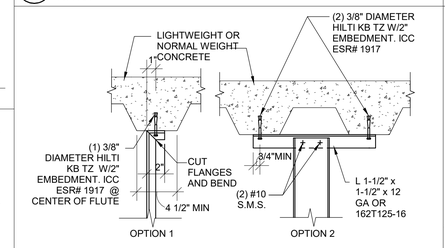


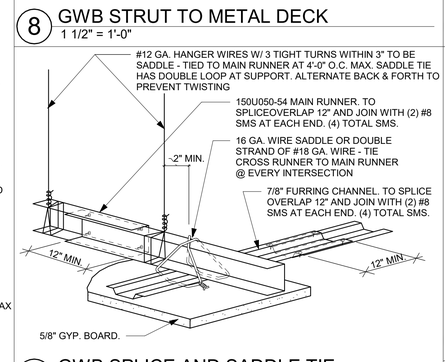


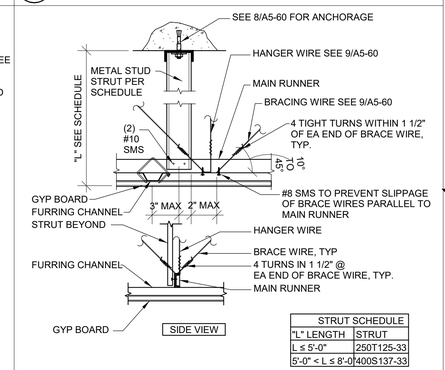


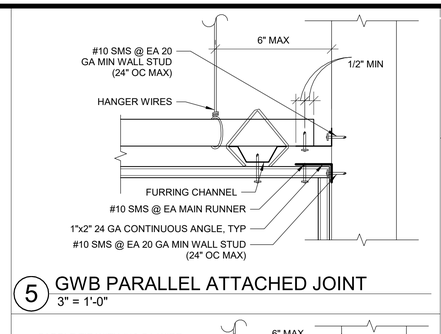


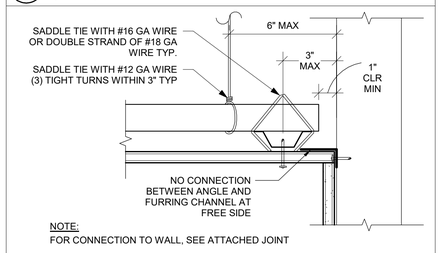


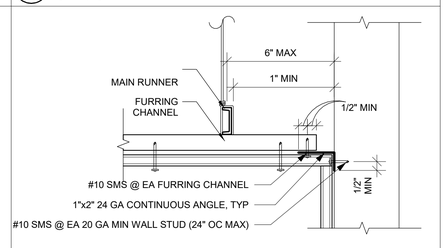


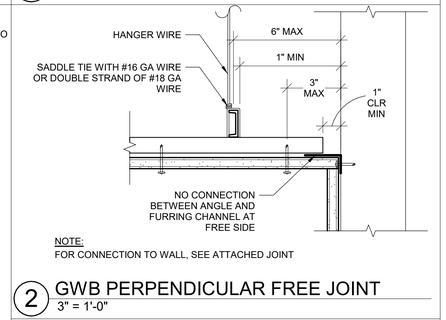


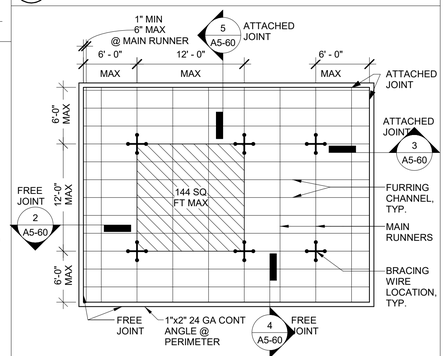












13 CURTAIN TRACK AT GYP BRD
12" = 1'-0"

12 SOFFIT DETAIL
1 1/2" = 1'-0"

11 GWB - CEILING ACCESS PANEL
N.T.S.

NOTE:
IF THE MAIN RUNNER IS CUT DUE TO FIXTURES, RDP SHALL SPECIFY ADDITIONAL HANGER WIRES AND/OR BRACING WIRES, AS REQUIRED TO MAINTAIN STRUCTURAL INTEGRITY.

10 GWB - FIXTURE SUSPENSION
1 1/2" = 1'-0"

9 GWB SUSPENSION WIRES @ MTL. DECK
N.T.S.

8 GWB STRUT TO METAL DECK
1 1/2" = 1'-0"

7 GWB SPLICE AND SADDLE TIE
3" = 1'-0"

STRUT SCHEDULE	
"L" LENGTH	STRUT
L ≤ 5'-0"	250T125-33
5'-0" < L ≤ 8'-0"	400S137-33

6 GWB TYPICAL COMPRESSION STRUT
1 1/2" = 1'-0"

5 GWB PARALLEL ATTACHED JOINT
3" = 1'-0"

NOTE:
FOR CONNECTION TO WALL, SEE ATTACHED JOINT

4 GWB PERIMETER PARALLEL FREE JOINT
3" = 1'-0"

3 GWB PERPENDICULAR ATTACHED JOINT
3" = 1'-0"

NOTE:
FOR CONNECTION TO WALL, SEE ATTACHED JOINT

2 GWB PERPENDICULAR FREE JOINT
3" = 1'-0"

1. BRACING WIRES AND COMP. STRUT SHALL OCCUR AT EVERY 144 SQ. FT. MAX. IN ROOMS OVER 144 SQ. FT. - IN GEOGRAPHIC LOCATIONS WHERE: $S_{DS} \leq 1.15$.
2. S_{DS} VALUE OF PROJECT FOUND ON STRUCTURAL SHEETS. (*THIS PROJECT= 0.751*)

1 GWB - CEILING PLAN
1/8" = 1'-0"

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GYP CEILING GENERAL NOTES

1

1. CONSTRUCTION, WORKMANSHIP AND MATERIAL SHALL CONFORM TO THE 2019 CALIFORNIA BUILDING STANDARDS CODE (CBSC 2019).

2. THE CONTRACTOR SHALL NOTIFY OSHPD AND THE REGISTERED DESIGN PROFESSIONAL (RDP) IN RESPONSIBLE CHARGE WHERE A CONFLICT OR DISCREPANCY OCCURS BETWEEN THE CONSTRUCTION DRAWINGS AND ANY OTHER PORTION OF THE CONSTRUCTION DOCUMENTS, FIELD CONDITIONS, OR WHERE ANY CONDITIONS ARISE NOT COVERED BY THESE DOCUMENTS WHEREIN WORK WILL NOT COMPLY WITH CODE REQUIREMENTS.

3. THE INTENT OF THE DRAWINGS AND SPECIFICATIONS IS TO CONSTRUCT THE HOSPITAL BUILDING IN ACCORDANCE WITH THE CALIFORNIA BUILDING STANDARD CODE, 2019 (CBSC 2019). SHOULD ANY CONDITION DEVELOP NOT COVERED BY THE APPROVED CONSTRUCTION DOCUMENTS WHEREIN THE WORK WILL NOT COMPLY WITH CBSC 2019, A CHANGE ORDER DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY OSHPD BEFORE PROCEEDING WITH THE WORK.

4. GALVANIZED METAL STUDS, TRACKS AND SHEET STEEL SHALL CONFORM TO ASTM A653-11 MATERIAL, OR OTHER EQUIVALENT ASTM LISTED MATERIALS IN SECTION A2.1 OF THE AISI SI00-07/S2-10; NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS WITH SUPPLEMENT 2, DATED 2010, WITH A MINIMUM YIELD STRENGTH OF 33 KSI FOR 43 MIL (18 GAGE) AND LIGHTER AND MINIMUM YIELD STRENGTH OF 50 KSI FOR HEAVIER GAGES. METAL STUDS AND TRACKS SHALL BE OF SIZE, THICKNESS AND SECTION PROPERTIES SHOWN ON TABLES 1-1, 1-2 AND 1-3 OF THE AISI MANUAL, COLD-FORMED STEEL DESIGN, 2008 EDITION. THE RDP IN RESPONSIBLE CHARGE SHALL OBTAIN OSHPD APPROVAL FOR ANY SUBSTITUTIONS.

5. ELECTRICAL METALLIC TUBE (EMT) SHALL BE ANSI C80.3/UL 797 CARBON STEEL WITH G90 GALVANIZING. EMT SHALL HAVE MINIMUM YIELD STRENGTH OF (Fy =) 30 KSI AND MINIMUM ULTIMATE STRENGTH OF (Fu =) 48 KSI.

6. THESE SPECIFICATIONS REFER TO FASTENER TYPE AND SIZE BUT DO NOT SPECIFY OR ENDORSE A SPECIFIC MANUFACTURER. THE RDP IN RESPONSIBLE CHARGE SHALL SELECT A MANUFACTURER AND SELECTED FASTENER CAPACITIES SHALL MATCH OR EXCEED THE STRENGTHS LISTED HEREIN. THE FOLLOWING REQUIREMENTS SHALL ALSO BE MET:
   a. SHEET METAL SCREWS SHALL COMPLY WITH ASTM C 1513-18, ASME B18.6.4-98 (R2005) AND ICC-ES AC 118 AND SHALL BE SIZED ACCORDING TO MANUFACTURER SPECIFICATIONS. MINIMUM SIZE NO. 12 SCREW. PENETRATION OF SCREWS THROUGH JOINED MATERIAL SHALL NOT BE LESS THAN THREE EXPOSED THREADS.
   b. WELDING SHALL BE IN ACCORDANCE WITH AWS D1.3 USING E60XX SERIES ELECTRODES. FIELD WELDING SHALL HAVE SPECIAL INSPECTION IN ACCORDANCE WITH 2019 CBC SECTION 1705A.2.
   c. POST- INSTALLED ANCHORS (E.G. EXPANSION ANCHORS, SCREW ANCHORS AND POWER ACTUATED FASTENERS) SHALL HAVE SPECIAL INSPECTION AND TESTING IN ACCORDANCE WITH THE 2019 CBC SECTIONS 1705A.3 & 1910A. FOR QUALIFICATION, DESIGN AND USE OF POST-INSTALLED ANCHORS IN CONCRETE SEE THE 2019 CBC SECTIONS 1617A.1.19 AND 1910A. LISTING OF CURRENT ICC-ES EVALUATION REPORTS (OR REPORTS FROM OTHER TESTING AGENCIES ACCEPTABLE TO OSHPD) SHALL BE REQUIRED FOR FASTENER USED. 1
   d. POWER-ACTUATED FASTENERS (PAF), POWDER DRIVEN FASTENERS (PDF), POWER DRIVEN PINS (PDP) AND SHOT PINS ALL REPRESENT THE SAME FASTENER AND WILL HEREAFTER BE REFERRED TO AS POWER ACTUATED FASTENERS (PAF). PAF'S SHALL SATISFY THE CURRENT AC70-ACCEPTANCE CRITERIA FOR FASTENERS POWER-DRIVEN INTO CONCRETE, STEEL AND MASONRY ELEMENTS AND THE 2019 CBC SECTIONS 1910A. LISTING OF CURRENT ICC ES EVALUATION REPORTS (OR REPORTS FROM OTHER TESTING AGENCIES ACCEPTABLE TO OSHPD) SHALL BE REQUIRED FOR FASTENERS USED.
   e. FOR PAF INSTALLED IN STEEL THE FASTENER PENETRATION SHALL HAVE THE ENTIRE POINTED END OF THE FASTENER DRIVEN THROUGH THE STEEL MEMBER, EXCEPT AS NOTED IN CURRENT REPORTS FROM TESTING AGENCIES ACCEPTABLE TO OSHPD.

7. DESIGN CRITERIA
   a. BUILDING CODE: 2019 CALIFORNIA BUILDING CODE (2019 CBC), 6 ASCE 7-16 TO BE IN CONFORMANCE WITH 2019 CBC, AISI s100-16 TO BE IN CONFORMANCE WITH 2019 CBC., AND ASTM C754-11. ~~FOR LOAD~~ 1 COMBINATIONS, ALLOWABLE STRESS DESIGN SHALL BE IN ACCORDANCE WITH 2019 CBC SECTION 1605A.3.1.
   b. FASTENER CAPACITIES TABLES WERE DEVELOPED BASED ON ICC REPORTS BY SEVERAL MANUFACTURERS.
   c. THE DESIGN ASSUMES THAT BUILDING ELEMENTS AND SUPPORTS, TO WHICH THE COMPONENTS ADDRESSED IN THIS DOCUMENT ARE ANCHORED, HAVE SUFFICIENT CAPACITY TO CARRY THE LOADS IMPOSED BY THE COMPONENTS IN COMBINATION WITH ALL OTHER LOADS. EVALUATION OF THE CAPACITY OF THESE SUPPORTING BUILDING ELEMENTS IS BEYOND THE SCOPE OF THESE TYPICAL DETAILS.
   d. THIS SPECIFICATION IS LIMITED TO CEILING ASSEMBLIES HAVING MAXIMUM DEAD WEIGHT OF 4 PSF, INCLUDING LIGHTING FIXTURES (LUMINERIES) AND MECHANICAL SERVICES, EACH WEIGHING LESS THAN 56 LBS AND ATTACHED TO CEILING FRAMING SYSTEM. HEAVIER SYSTEM AND THOSE SUPPORTING LATERAL FORCES FROM PARTITION WALLS ARE OUTSIDE THE SCOPE OF THIS SPECIFICATION AND WILL REQUIRE PROJECT SPECIFIC DESIGN.

8. SEE RCPS FOR ALL FIRE RESISTENCE AND ACOUSTICAL RATINGS FOR ALL CEILING ASSEMBLIES.

9. "CEILING WIRE" SHALL CONFORM WITH GALVANIZED SOFT ANNEALED MILD STEEL WIRE AS DEFINED IN ASTM A641 (CLASS 1 COATING) WITH 70 KSI MINIMUM TENSILE STRENGTH:
   a. FOUR (4) TWISTS OF WIRE WITHIN 1.5" DEVELOPS THE ALLOWABLE LOAD FOR THE WIRE.
   b. THREE (3) TWISTS WITHIN 3" MAY BE USED TO DEVELOP THE MAXIMUM 50% OF ALLOWABLE LOAD.

10. SUSPENSION SYSTEM COMPONENTS SHALL COMPLY WITH ASTM C754:
    a. MAIN RUNNNERS SHALL CONSIST OF 16 GAGE 1-1/2” COLD ROLLED U-CHANNEL 150U050-54 SPACED AT 4'-0” OC MAX. MAIN RUNNERS SHALL BE SUPPORTED BY HANGER WIRES AT 4'-0” OC MAX AND WITHIN 6” FROM EA END.
    b. FURRING CHANNEL SHALL CONSIST OF 25 GAGE 7/8” (HAT) FURRING CHANNELS (087F125-18) at 2'-0” OC MAX. FURRING CHANNELS SHALL BE SADDLE TIED TO MAIN RUNNERS WITH 16 GAGE TIE WIRE OR A DOUBLE STRAND OF 18 GAGE TIE WIRE.
    c. MAIN RUNNERS SHALL BE SPLICED BY LAPPING IN ACCORDANCE WITH DETAIL 7.
    d. FURRING CHANNELS SHALL BE SPLICED BY LAPPING IN ACCORDANCE WITH DETAIL 7.
    e. MAIN RUNNERS AND FURRING CHANNELS ALONG WITH THEIR SPLICES, INTERSECTION CONNECTORS, AND EXPANSION DEVICES SHALL BE DESIGNED AND CONSTRUCTED TO CARRY A MEAN ULTIMATE TEST LOAD OF NOT LESS THAN 270 LBS. IN COMPRESSION & TENSION.
    f. HANGER AND BRACING WIRES SHALL BE #12 GAGE (0.106" DIAMETER), SOFT ANNEALED, AND GALVANIZED STEEL WIRES WITH CLASS 1 COATING. THEY MAY BE USED FOR UP TO AND INCLUDING 4'-0"x 4'-0" GRID SPACING ALONG AND ATTACHED TO MAIN RUNNERS. SPLICES ARE NOT PERMITTED IN ANY HANGER WIRE.
    g. WIRE HANGERS SHALL BE SADDLE-TIED AROUND MAIN RUNNERS SO AS TO PREVENT TURNING OR TWISING OF THE MEMBER.

11. SUSPENSION SYSTEM INSTALLATION SHALL COMPLY WITH ASTM C754:
    a. CEILING GRID MEMBERS SHALL BE ATTACHED TO TWO (2) ADJACENT WALLS. MAIN RUNNERS AND FURRING CHANNEL SHALL BE AT LEAST 1 INCH CLEAR OF OTHER WALL. IF WALLS RUN DIAGONAL TO THE CEILING GRID SYSTEM RUNNERS, ONE END OF MAIN RUNNER AND FURRING SHOULD BE FREE WITH STANDARD CLEARANCES.
    b. THE WIDTH OF THE PERIMETER SUPPORTING CLOSURE ANGLE SHALL BE NOT LESS THAN TWO (2) INCHES. USE OF ANGLES WITH SMALLER WIDTHS IN CONJUNCTION WITH PERIMETER CLIPS SHALL REQUIRE AN ALTERNATE METHOD OF COMPLIANCE WITH ADEQUATE JUSTIFICATION AND ARE OUTSIDE THE SCOPE OF THIS SPECIFICATION.

12. EXPANSION JOINTS, SEISMIC SEPARATIONS, AND PENETRATIONS:
    a. EXPANSION JOINTS SHALL BE PROVIDED IN THE CEILING AT INTERSECTIONS OF CORRIDORS AND AT JUNCTIONS OF CORRIDORS WITH LOBBIES OR OTHER SIMILAR AREAS.
    b. FOR CEILING AREAS EXCEEDING 2500 SQUARE FEET, A SEISMIC SEPARATION JOINT SHALL BE PROVIDED TO DIVIDE THE CEILING INTO AREAS NOT EXCEEDING 2500 SQ. FT.
    c. PENETRATIONS THROUGH THE CEILING FOR SPRINKLER HEADS AND OTHER SIMILAR DEVICES THAT ARE NOT INTEGRALLY TIED TO THE CEILING SYSTEM IN THE LATERAL DIRECTION SHALL HAVE A TWO (2) INCH OVERSIZED RING, SLEEVE OR ADAPTER THROUGH THE CEILING TILE TO ALLOW FREE MOVEMENT OF ONE (1) INCH IN ALL HORIZONTAL DIRECTIONS. A FLEXIBLE SPRINKLER HOSE FITTING THAT CAN ACCOMMODATE ONE (1) INCH OF CEILING MOVEMENT SHALL BE PERMITTED TO BE USED IN LIEU OF THE OVERSIZED RING, SLEEVE OR ADAPTER. SUCH FLEXIBLE SPRINKLER HOSE SHALL BE ADEQUATELY SUPPORTED FROM SOFFIT SO AS NOT TO EXCEED THE MAXIMUM TRIBUTARY WEIGHT OF THE CEILING.

13. LATERAL FORCE BRACING:
    LATERAL FORCE BRACING IS REQUIRED IN ACCORDANCE WITH THIS SECTION FOR ALL CEILING AREAS, UON.

    EXCEPTION: LATERAL FORCE BRACING MAY BE OMITTED FOR SUSPENDED ACOUSTICAL CEILING SYSTEMS WITH A CEILING AREA OF 144 SQ. FT. OR LESS, WHEN PERIMETER SUPPORT ARE PROVIDED AND PERIMETER WALLS ARE DESIGNED TO CARRY THE CEILING LATERAL FORCES.

    a. PROVIDE LATERAL-FORCE BRACING ASSEMBLIES CONSISTING OF A STRUT AND FOUR (4) #12 GAGE BRACING WIRES ORIENTED 90 DEGREES FROM EACH OTHER.
    b. LATERAL-FORCE BRACING ASSEMBLIES SHALL BE SPACED IN ACCORDANCE WITH DETAIL 1/A5-60 THROUGH 5/A5-60 AT THE EDGES OF ANY WALL OR CHANGE OF ELEVATION OF THE CEILING.
    c. THE SLOPE OF BRACING WIRES MAY BE FROM 10 TO 45 DEGREES BUT MAY NOT EXCEED 45 DEGREES FROM THE PLANE OF THE CEILING AND WIRES SHALL BE TAUT.
    d. STRUTS SHALL BE ADEQUATE TO RESIST THE VERTICAL COMPONENT INDUCED BY THE BRACING WIRES, AND SHALL NOT BE MORE THAN 1 (HORIZONTAL) IN 6 (VERTICAL) OUT OF PLUMB.

14. ATTACHMENT OF HANGER AND BRACING WIRES:
    a. FASTEN #12 HANGER WIRES WITH NOT LESS THAN THREE (3) TIGHT TURNS IN 3 INCHES. HANGER WIRE LOOPS SHALL BE TIGHTLY WRAPPED AND SHARPLY BENT TO PREVENT ANY VERTICAL MOVEMENT OR ROTATION OF THE MEMBER WITHIN THE LOOPS.
    b. FASTEN #12 BRACING WIRES WITH FOUR (4) TIGHT TURNS. MAKE ALL TIGHT TURNS WITHIN A DISTANCE OF 1 1/2" INCHES.
    c. HANGER OR BRACING WIRE ANCHORED TO THE STRUCTURE SHOULD BE INSTALLED IN SUCH A MANNER THAT THE DIRECTION OF THE ANCHOR ALIGNS AS CLOSELY AS POSSIBLE WITH THE DIRECTION OF THE WIRE.
    d. SEPARATE ALL CEILING HANGER AND BRACING WIRES AT LEAST SIX (6) INCHES FROM ALL UNBRACED DUCTS, PIPES CONDUITS, ETC.
    e. HANGER WIRES SHALL NOT BE ATTACHED TO OR BEND AROUND INTERFERING MATERIAL OR EQUIPMENT. PROVIDE TRAPEZE OR OTHER SUPPLEMETARY SUPPORT MEMBERS AT OBSTRUCTIONS TO TYPICAL HANGER SPACING. PROVIDE ADDITIONAL HANGERS, STRUTS OR BRACES AS REQUIRED AT ALL CEILING BREAKS, SOFFITS, OR DISCONTINUOUS AREAS.
    f. HANGER WIRES THAT ARE MORE THAN 1 (HORIZONTAL) IN 6 (VERTICAL) OUT OF PLUMB SHALL REQUIRE PROJECT SPECIFIC DESIGN.
    g. WHEN DRILLED-IN CONCRETE ANCHORS OR PAF ARE USED IN REINFORCED CONCRETE FOR HANGER WIRES, 1 OUT OF 10 WIRE/ANCHOR ASSEMBLIES SHALL BE FIELD TESTED FOR 200 LBS. IN TENSION. WHEN DRILLED-IN CONCRETE ANCHORS ARE USED FOR BRACING WIRES, 1 OUT OF 2 WIRE/ ANCHOR ASSEMBLIES SHALL BE FIELD TESTED FOR 440 LBS. IN TENSION IN THE DIRECTION OF THE WIRE. PAF IN CONCRETE ARE NOT PERMITTED FOR BRACING WIRES.

15. CEILING FIXTURES, TERMINALS, AND DEVICES:
    a. ALL LIGHT FIXTURES, AIR TERMINALS/GRILLS, OR OTHER DEVICES (REFERRED TO ALL BY COMMON TERM FIXTURES HEREAFTER) SHALL BE MOUNTED IN A MANNER THAT WILL NOT COMPROMISE CEILING PERFORMANCE.
    b. ALL FIXTURES SHALL BE SUPPORTED DIRECTLY BY MAIN RUNNERS OR BY SUPPLEMENTAL FRAMING WHICH IS SUPPORTED BY MAIN RUNNERS AND POSITIVELY ATTACHED WITH SCREWS OR OTHER APPROVED CONNECTORS.
    c. SURFACE MOUNTED FIXTURES SHALL BE ATTACHED TO A MAIN RUNNER WITH A POSITIVE CLAMPING DEVICE MADE OF MATERIAL WITH A MINIMUM OF 14 GAGE. ROTATIONAL SPRING CLAMPS DO NOT COMPLY.
    d. ACCESS PANELS: ACCESS TO THE SPACE BETWEEN THE CEILING AND THE FLOOR OR ROOF ABOVE SHALL NOT BE ALLOWED. SMALL ACCESS PANELS FOR THE INSPECTION, ADJUSTMENT, OR REPAIR OF UTILITY SWITCHES, VALVES, SENSORS, ETC. MAY BE ALLOWED IF THE PANEL IS LESS THAN 300 SQUARE INCHES. SUCH PANELS SHALL ALSO HAVE A PERMANENT WARNING LABEL AS FOLLOWS:

    WARNING:
    1. DO NOT CLIMB, WALK, OR CRAWL ON THE GYPSUM BOARD CEILING.
    2. DO NOT STORE OR STOW ANYTHING ON THE GYPSUM BOARD CEILING.

    e. ALL LIGHT FIXTURES WEIGHING LESS THAN OR EQUAL TO 10 LB. SHALL HAVE ONE NO. 12 GAUGE SAFETY WIRE CONNECTED FROM FIXURE HOUSING TO STRUCTURE ABOVE. IT IS NOT NECESSARY FOR THESE SAFETY WIRES TO BE TAUT.
    f. ALL FIXTURES WEIGHING GREATER THAN 10 LB BUT LESS THAN OR EQUAL TO 56 LB. SHALL HAVE TWO NO. 12 GAUGE SAFETY WIRE CONNECTED FROM FIXURE HOUSING TO STRUCTURE ABOVE. IT IS NOT NECESSARY FOR THESE SAFETY WIRES TO BE TAUT.
    g. ALL FIXTURES WEIGHING GREATER THAN 56 LB. SHALL BE SUPPORTED DIRECTLY FROM STRUCTURE ABOVE BY APPROVED HANGERS.
    h. PENDENT-HUNG FIXTURES SHALL BE SUPPORTED DIRECTLY FROM THE STRUCTURE ABOVE USING NO LESS THAN N0. 9-GAUGE WIRE OR AN APPROVED ALTERNATE SUPPORT. THE CEILING SUSPENSION SYSTEM SHALL NOT PROVIDE ANY DIRECT SUPPORT.
    i. ALL RECESSED OR DROP-IN FIXTURES SHALL BE SUPPORTED DIRECTLY FROM FIXTURE HOUSING TO THE STRUCTURE ABOVE WITH A MINIMUM OF TWO NO. 12 GAUGE WIRES LOCATED AT DIAGONALLY OPPOSITE CORNERS. LEVELLING OR POSITIONING OF FIXURES MAY BE PROVIDED BY CEILING GRID. FIXTURE SUPPORT WIRES MAY BE SLIGHTLY LOOSE TO ALLOW THE FIXTURE TO SEAT IN THE GRID SYSTEM. FIXTURES SHALL NOT BE SUPPORTED FROM MAIN RUNNERS OR FURRING CHANNELS IF THE WEIGHT OF THE FIXTURES CAUSES TOTAL DEAD LOAD TO EXCEED THE DEFLECTION CAPABILITY OF THE CEILING SUSPENSION SYSTEM.

16. CEILINGS THAT ARE PART OF A FIRE RATED ASSEMBLY: PROVIDE A DETAIL AND DESIGN NUMBER FOR RATED CEILING ASSEMBLIES FROM AN APPROVED TESTING AGENCY. THE COMPONENTS AND INSTALLATION DETAILS SHALL CONFORM IN EVERY RESPECT WITH THE LISTED DETAIL AND NUMBER. DETAILS SHALL CLEARLY DEPICT ALL COMPONENTS, INCLUDING INSULATION MATERIALS, FRAMING AND ATTACHMENT OF THE DESIGN SO THAT THE ASSEMBLY CAN BE CONSTRUCTED AND INSPECTED ACCORDINGLY. POP RIVETS, SCREWS, OR OTHER ATTACHMENTS ARE NOT ACCEPTABLE UNLESS SPECIFICALLY DETAILED ON THE DRAWINGS AND APPROVED BY OSHPD.

17. GYPSUM BOARD INSTALLATION SHALL COMPLY WITH ASTM C840-11:
    a. GYPSUM BOARD SHALL CONSIST OF SINGLE-PLY ." OR 5/8” THICK IN ACCORDANCE WITH ASTM C11-10a.
    b. GYPSUM BOARD SHALL BE INSTALLED PERPENDICULAR TO FURRING WITH SCREWS AT 12" ON CENTER MAXIMUM, IN ACCORDANCE WITH ASTM C840-11.
    c. GYPSUM BOARD SHALL BE ATTACHED TO FURRING/FRAMING WITH ASTM C1002-07 TYPE S (ASTM A568-11b GRADES 1018 TO 1022) SCREWS (NOT LESS THAN, N0. 6, WITH MAJOR DIAMETER NOT LESS THAN 0.136 IN).

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TCMC MRI

Tri-City Medical Center

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ELECTRICAL:	AG DESIGN, INC. 171 S. ANITA DR. SUITE 111 ORANGE, CALIFRONIA 92868 TEL(714)769-9900 EXT. 201
SHIELDING:	MRI SHIELDING CORPORATION 3554 BUISNESS PARK DR., SUITE B COSTA MESA, CA 92626 TEL(714)545-7700
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LICENSED ARCHITECT
JOSEPH MICHEL SFEIR
No. C28543
REN. 1-31-23
STATE OF CALIFORNIA

REV:	DESCRIPTION:	DATE:
1	OSHPD COMMENTS	8/3/2020
2	DESIGN CHANGES	8/10/2020
3	OSHPD COMMENTS	10/2/2020
4	OSHPD COMMENTS	11/24/2020
5	DESIGN CHANGES	11/24/2020
6	ACD 0001 DESIGN CHANGES	4/10/2021
7	ACD 0001 DESIGN CHANGES	5/8/2021

CONSULTANT

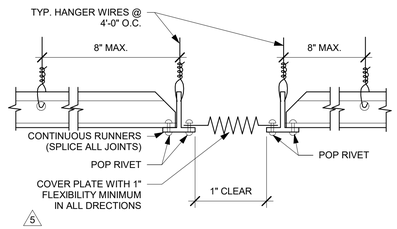
OSHPD APPROVAL STAMP:
OSHPD #: S200813-37-00-ACD0001

SHEET TITLE:
GYP. BOARD CEILING DETAILS

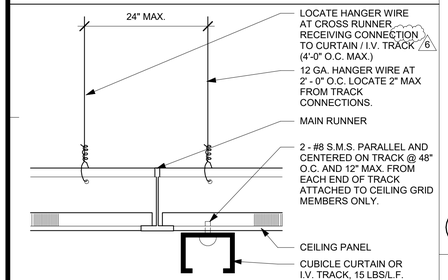
PROJECT TITLE:
TCMC MRI

PROJECT #: 01907.01
DRAWN BY: Author
CHECKED BY: Checker
SCALE: PER TITLE
DATE: 3/11/2020
SHEET NUMBER: A5-60

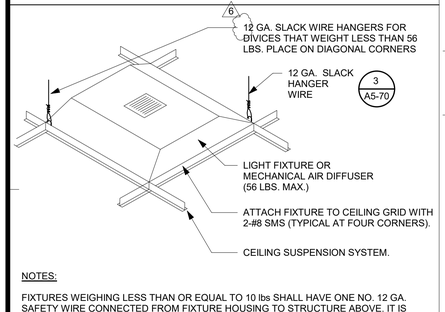
100% - CONSTRUCTION DOCUMENTS



10 ACP EXPANSION JOINT
12" = 1'-0"



9 CURTAIN TRACK AT CEILING GRID
12" = 1'-0"



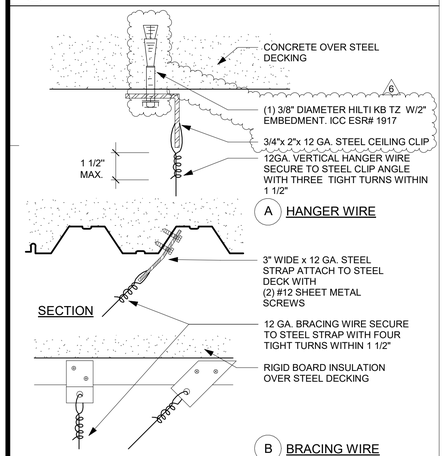
NOTES:

FIXTURES WEIGHING LESS THAN OR EQUAL TO 10 lbs SHALL HAVE ONE NO. 12 GA. SAFETY WIRE CONNECTED FROM FIXTURE HOUSING TO STRUCTURE ABOVE. IT IS NOT NECESSARY FOR THESE SAFETY WIRES TO BE TAUT.

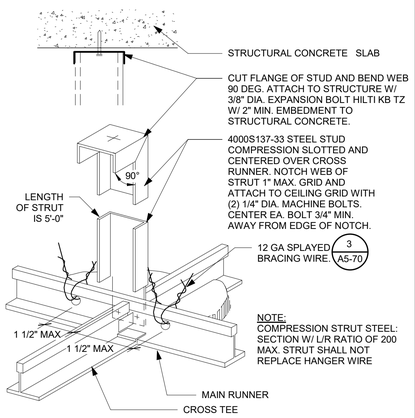
FIXTURES WEIGHING GREATER THAN 10 lbs BUT LESS THAN OR EQUAL TO 56 lbs SHALL HAVE TWO NO. 12GA. SAFETY WIRE CONNECTED FROM FIXTURE HOUSING TO STRUCTURE ABOVE IT IS NOT NECESSARY FOR THESE SAFETY WIRES TO BE TAUT.

FIXTURES OVER 56 lbs. SHALL BE SUPPORTED DIRECTLY FROM STRUCTURE ABOVE BY APPROVED HANGERS.

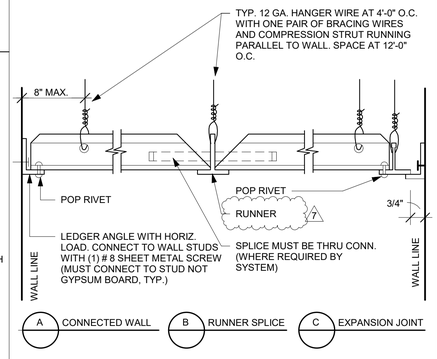
6 FIXTURE SUSPENSION
12" = 1'-0"



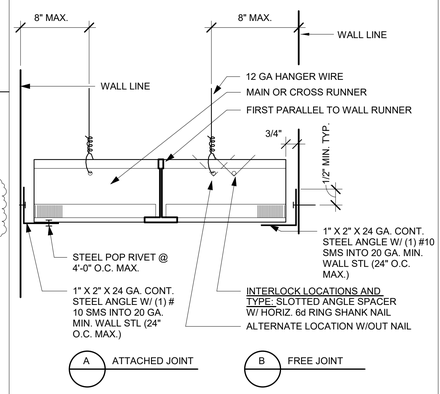
3 SUSPENSION WIRE CONNECTION @ METAL DECK
12" = 1'-0"



8 VERTICAL COMPRESSION STRUT
12" = 1'-0"



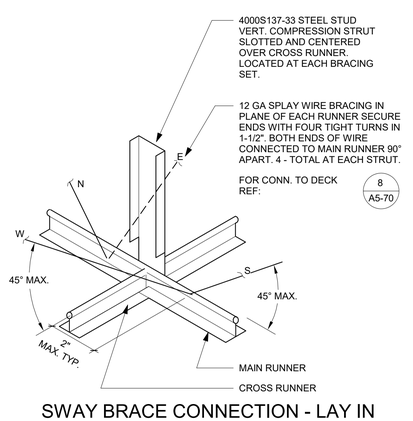
5 SECT. ACROSS COORIDOR AT EXP. JT.
12" = 1'-0"



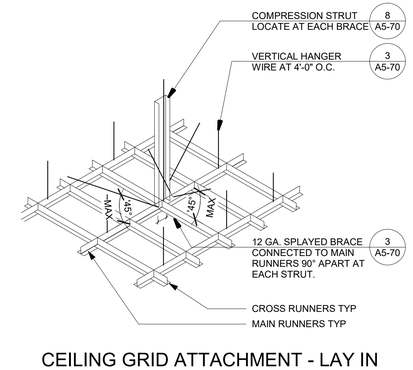
NOTES:

1. PROVIDE #12 GAGE HANGER WIRES AT THE ENDS OF ALL MAIN AND CROSS RUNNERS WITHIN EIGHT (8) INCHES OF THE SUPPORT OR WITHIN ONE-FOURTH (1/4) OF THE LENGTH OF THE END TEE, WHICHEVER IS LESS, FOR THE PERIMETER OF THE CEILING AREA. PERIMETER WIRES ARE NOT REQUIRED WHEN THE LENGTH OF THE END TEE IS EIGHT (8) INCHES OR LESS.
2. NAILS AT ENDS OF HORIZONTAL STRUTS ARE TO BE PLACED WITH NAIL HEAD TOWARD CENTER LINE OF SPAN OF STRUT.
3. SPACERS MAY BE SLOTTED APPROVED ANGLES OR CHANNELS WITH "DIAMOND POINTS" OF SPRING STEEL WHICH SNAP TIGHT TO PREVENT MOVEMENT OF STRUT.
4. STEEL POP RIVETS SHALL HAVE MINIMUM ALLOWABLE SHEAR STRENGTH OF 120# AND ULTIMATE SHEAR STRENGTH OF 300#.

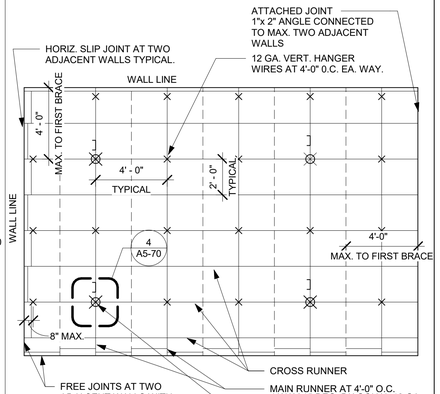
2 HORIZONTAL SLIP JOINT
12" = 1'-0"



7 SWAY BRACE CONNECTION - LAY IN CEILING
12" = 1'-0"



4 CEILING GRID ATTACHMENT - LAY IN PANEL CEILING
12" = 1'-0"



NOTES:

1. TYPICAL 2X4 LAY-IN ACOUSTIC TILE CEILING SHOWN SOLID, 2X2 SHOWN DASHED.
2. BRACING WIRES AND COMP. STRUT SHALL OCCUR AT EVERY 144 SQ. FT. MAX. IN ROOMS OVER 144 SQ. FT. - IN GEOGRAPHIC LOCATIONS WHERE: $S_{DS} \leq 1.15$.
3. S_{DS} VALUE OF PROJECT FOUND ON STRUCTURAL SHEETS. (*THIS PROJECT= 0.751*)

1 DIAGRAMMATIC CEILING PLAN-LAY IN CEILING
1/4" = 1'-0"

GENERAL NOTES:

1. THE GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND MEASUREMENTS IN THE FIELD PRIOR TO STARTING CONSTRUCTION.
2. REFER TO GENERAL NOTES ON SHEET A0-00 FOR INFORMATION NOT INDICATED ON THIS SHEET.

LAY-IN CEILING GENERAL NOTES:

METAL SUSPENSION SYSTEMS FOR LAY-IN PANEL CEILINGS

1

REFERENCE: CBC 2019 AND ASCE 7-16.

1. CONSTRUCTION, WORKMANSHIP AND MATERIAL SHALL CONFORM TO THE 2019 CALIFORNIA BUILDING STANDARDS CODE (CBSC 2019).
2. THE CONTRACTOR SHALL NOTIFY OSHPD AND THE REGISTERED DESIGN PROFESSIONAL (RDP) IN RESPONSIBLE CHARGE WHERE A CONFLICT OR DISCREPANCY OCCURS BETWEEN THE CONSTRUCTION DRAWINGS AND ANY OTHER PORTION OF THE CONSTRUCTION DOCUMENTS, FIELD CONDITIONS, OR WHERE ANY CONDITIONS ARISE NOT COVERED BY THESE DOCUMENTS WHEREIN WORK WILL NOT COMPLY WITH CODE REQUIREMENTS.
3. THE INTENT OF THE DRAWINGS AND SPECIFICATIONS IS TO CONSTRUCT THE HOSPITAL BUILDING IN ACCORDANCE WITH THE CALIFORNIA BUILDING STANDARD CODE, 2019 (CBSC 2019). SHOULD ANY CONDITION DEVELOP NOT COVERED BY THE APPROVED CONSTRUCTION DOCUMENTS WHEREIN THE WORK WILL NOT COMPLY WITH CBSC 2019, A CHANGE ORDER DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY OSHPD BEFORE PROCEEDING WITH THE WORK.
4. GALVANIZED METAL STUDS, TRACKS AND SHEET STEEL SHALL CONFORM TO ASTM A653-11 MATERIAL, OR OTHER EQUIVALENT ASTM LISTED MATERIALS IN SECTION A2.1 OF THE AISI SI00-07/S2-10; NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS WITH SUPPLEMENT 2, DATED 2010, WITH A MINIMUM YIELD STRENGTH OF 33 KSI FOR 43 MIL (18 GAGE) AND LIGHTER AND MINIMUM YIELD STRENGTH OF 50 KSI FOR HEAVIER GAGES. METAL STUDS AND TRACKS SHALL BE OF SIZE, THICKNESS AND SECTION PROPERTIES SHOWN ON TABLES 1-1, 1-2 AND 1-3 OF THE AISI MANUAL, COLD-FORMED STEEL DESIGN, 2008 EDITION. THE RDP IN RESPONSIBLE CHARGE SHALL OBTAIN OSHPD APPROVAL FOR ANY SUBSTITUTIONS.
5. ELECTRICAL METALLIC TUBE (EMT) SHALL BE ANSI C80.3/UL 797 CARBON STEEL WITH G90 GALVANIZING. EMT SHALL HAVE MINIMUM YIELD STRENGTH OF (FY =) 30 KSI AND MINIMUM ULTIMATE STRENGTH OF (FU =) 48 KSI.
6. SELECTED FASTENER CAPACITIES SHALL MATCH OR EXCEED THE STRENGTHS LISTED HEREIN. THE FOLLOWING REQUIREMENTS SHALL ALSO BE MET:
   a. SHEET METAL SCREWS SHALL COMPLY WITH ASTM C 1513-10, ASME B18.6.4-98 (R2005) AND ICC-ES AC 118. PENETRATION OF SCREWS THROUGH JOINED MATERIAL SHALL NOT BE LESS THAN THREE EXPOSED THREADS.
   b. WELDING SHALL BE IN ACCORDANCE WITH AWS D1.3 USING E60XX SERIES ELECTRODES. FIELD WELDING SHALL HAVE SPECIAL INSPECTION IN ACCORDANCE WITH 2019 CBC SECTION 1705A.2.
   c. POST- INSTALLED ANCHORS (E.G. EXPANSION ANCHORS, SCREW ANCHORS AND POWER ACTUATED FASTENERS) SHALL HAVE SPECIAL INSPECTION AND TESTING IN ACCORDANCE WITH THE 2019 CBC SECTIONS 1705A.3 & 1910A. FOR QUALIFICATION, DESIGN AND USE OF POST-INSTALLED ANCHORS IN CONCRETE SEE THE 2019 CBC SECTIONS 1617A.1.19 AND 1910A. LISTING OF CURRENT ICC-ES EVALUATION REPORTS (OR REPORTS FROM OTHER TESTING AGENCIES ACCEPTABLE TO OSHPD) SHALL BE REQUIRED FOR FASTENER USED.
   d. POWER-ACTUATED FASTENERS (PAF), POWDER DRIVEN FASTENERS (PDF), POWER DRIVEN PINS (PDP) AND SHOT PINS ALL REPRESENT THE SAME FASTENER AND WILL HEREAFTER BE REFERRED TO AS POWER ACTUATED FASTENERS (PAF). PAF'S SHALL SATISFY THE CURRENT AC70-ACCEPTANCE CRITERIA FOR FASTENERS POWER-DRIVEN INTO CONCRETE, STEEL AND MASONRY ELEMENTS AND THE 2019 CBC SECTION 1910A. LISTING OF CURRENT ICC ES EVALUATION REPORTS (OR REPORTS FROM OTHER TESTING AGENCIES ACCEPTABLE TO OSHPD) SHALL BE REQUIRED FOR FASTENERS USED.
   e. FOR PAF INSTALLED IN STEEL THE FASTENER PENETRATION SHALL HAVE THE ENTIRE POINTED END OF THE FASTENER DRIVEN THROUGH THE STEEL MEMBER, EXCEPT AS NOTED IN CURRENT REPORTS FROM TESTING AGENCIES ACCEPTABLE TO OSHPD.
7. DESIGN CRITERIA 6
   a. BUILDING CODE: 2019 CALIFORNIA BUILDING CODE (2019 CBC), ASCE 7-16 TO BE IN CONFORMATION WITH 2019 CBC., AISI 100-16 TO BE IN CONFORMANCE WITH 2019 CBC., ASTM E580-14, C635-13A, AND C636-13. 1
   b. FOR LOAD COMBINATIONS, ALLOWABLE STRESS DESIGN SHALL BE IN ACCORDANCE WITH 2019 CBC SECTION 1605A.3.1.
   c. FASTENER CAPACITIES TABLES WERE DEVELOPED BASED ON ICC REPORTS BY SEVERAL MANUFACTURERS.
   d. THE DESIGN ASSUMES THAT BUILDING ELEMENTS AND SUPPORTS, TO WHICH THE COMPONENTS ADDRESSED IN THIS DOCUMENT ARE ANCHORED, HAVE SUFFICIENT CAPACITY TO CARRY THE LOADS IMPOSED BY THE COMPONENTS IN COMBINATION WITH ALL OTHER LOADS. EVALUATION OF THE CAPACITY OF THESE SUPPORTING BUILDING ELEMENTS IS BEYOND THE SCOPE OF THESE SPECIFICATIONS.
   e. DESIGN IS LIMITED TO CEILING ASSEMBLIES HAVING MAXIMUM DEAD WEIGHT OF 4 PSF, INCLUDING LIGHTING FIXTURES (LUMINARIES) AND MECHANICAL SERVICES, EACH WEIGHING LESS THAN 56 LBS AND ATTACHED TO CEILING FRAMING SYSTEM. HEAVIER SYSTEM AND THOSE SUPPORTING LATERAL FORCES FROM PARTITION WILL REQUIRE PROJECT SPECIFIC DESIGN.
8. THE RDP IN RESPONSIBLE CHARGE SHALL VERIFY THE FIRE RESISTANCE AND ACOUSTICAL RATINGS FOR ALL CEILING ASSEMBLIES.
9. "CEILING WIRE" SHALL CONFORM WITH GALVANIZED SOFT ANNEALED MILD STEEL WIRE AS DEFINED IN ASTM A641 (CLASS 1 COATING) WITH 70 KSI MINIMUM TENSILE STRENGTH:
   a. FOUR (4) TWISTS OF WIRE WITHIN 1.5" DEVELOPS THE ALLOWABLE LOAD FOR THE WIRE.
   b. THREE (3) TWISTS WITHIN 3" MAY BE USED TO DEVELOP THE MAXIMUM 50% OF ALLOWABLE LOAD.
10. SUSPENSION SYSTEM COMPONENTS SHALL COMPLY WITH ASTM C635 AND E580 SECTION 5.1:
    a. THE CEILING GRID SYSTEM SHALL BE RATED HEAVY DUTY AS DEFINED BY ASTM C635.
    b. HANGER AND BRACING WIRES SHALL BE #12 GAGE (0.106" DIAMETER), SOFT ANNEALED, AND GALVANIZED STEEL WIRES WITH CLASS 1 COATING. THEY MAY BE USED FOR UP TO AND INCLUDING 4'-0"X 4'-0" GRID SPACING ALONG AND ATTACHED TO MAIN RUNNERS. SPLICES ARE NOT PERMITTED IN ANY HANGER WIRE.
    c. MAIN RUNNERS AND CROSS RUNNERS ALONG WITH THEIR SPLICES, INTERSECTION CONNECTORS, AND EXPANSION DEVICES SHALL BE DESIGNED AND CONSTRUCTED TO CARRY A MEAN ULTIMATE TEST LOAD OF NOT LESS THAN 180 LBS. IN COMPRESSION & TENSION, IN ACCORDANCE WITH ASTM 580 SECTION 5.1.2.
11. SUSPENSION SYSTEM INSTALLATION, SHALL COMPLY WITH ASTM C636 AND E580 SECTION 5.2:
    a. PROVIDE #12 GAGE HANGER WIRES AT THE ENDS OF ALL MAIN AND CROSS RUNNERS WITHIN EIGHT (8) INCHES OF THE SUPPORT OR WITHIN ONE-FOURTH (1/4) OF THE LENGTH OF THE END TEE, WHICHEVER IS LESS, FOR THE PERIMETER OF THE CEILING AREA. PERIMETER WIRES ARE NOT REQUIRED WHEN THE LENGTH OF THE END TEE IS EIGHT (8) INCHES OR LESS.
    b. CEILING GRID MEMBERS SHALL BE ATTACHED TO TWO (2) ADJACENT WALLS, IN ACCORDANCE WITH ASTM E580 SECTION 5.2.3. CEILING GRID MEMBERS SHALL BE AT LEAST 3/4" INCH CLEAR OF OTHER WALLS. IF WALLS RUN DIAGONAL TO THE CEILING GRID SYSTEM RUNNERS, ONE END OF MAIN AND CROSS RUNNERS SHOULD BE FREE, AND A MINIMUM OF 3/4 INCH CLEAR OF WALL.
    c. THE WIDTH OF THE PERIMETER SUPPORTING CLOSURE ANGLE SHALL BE NOT LESS THAN TWO (2) INCHES. USE OF ANGLES WITH SMALLER WIDTHS IN CONJUNCTION WITH PERIMETER CLIPS SHALL REQUIRE AN ALTERNATE METHOD OF COMPLIANCE WITH ADEQUATE JUSTIFICATION.
    d. AT THE PERIMETER OF THE CEILING AREA WHERE MAIN OR CROSS RUNNERS ARE NOT CONNECTED TO THE ADJACENT WALL, PROVIDE INTERCONNECTION BETWEEN THE RUNNERS AT THE FREE END TO PREVENT LATERAL SPREADING. A METAL STRUT OR A #16 GAGE WIRE WITH A POSITIVE MECHANICAL CONNECTION TO RUNNER MAY BE USED. WHERE THE PERPENDICULAR DISTANCE FROM THE WALL TO THE FIRST PARALLEL RUNNER IS EIGHT (8) INCHES OR LESS, THIS INTERCONNECTION IS NOT REQUIRED.
12. EXPANSION JOINTS, SEISMIC SEPARATIONS, AND PENETRATIONS:
    a. EXPANSION JOINTS SHALL BE PROVIDED IN THE CEILING AT INTERSECTIONS OF CORRIDORS AND AT JUNCTIONS OF CORRIDORS WITH LOBBIES OR OTHER SIMILAR AREAS.
    b. FOR CEILING AREAS EXCEEDING 2500 SQUARE FEET, A SEISMIC SEPARATION JOINT SHALL BE PROVIDED TO DIVIDE THE CEILING INTO AREAS NOT EXCEEDING 2500 SQ. FT.
    c. PENETRATIONS THROUGH THE CEILING FOR SPRINKLER HEADS AND OTHER SIMILAR DEVICES THAT ARE NOT INTEGRALLY TIED TO THE CEILING SYSTEM IN THE LATERAL DIRECTION SHALL HAVE A TWO (2) INCH OVERSIZED RING, SLEEVE OR ADAPTER THROUGH THE CEILING TILE TO ALLOW FREE MOVEMENT OF ONE (1) INCH IN ALL HORIZONTAL DIRECTIONS. A FLEXIBLE SPRINKLER HOSE FITTING THAT CAN ACCOMMODATE ONE (1) INCH OF CEILING MOVEMENT SHALL BE PERMITTED TO BE USED IN LIEU OF THE OVERSIZED RING, SLEEVE OR ADAPTER. SUCH FLEXIBLE SPRINKLER HOSE SHALL BE ADEQUATELY SUPPORTED FROM SOFFIT SO AS NOT TO EXCEED THE MAXIMUM TRIBUTARY WEIGHT OF THE CEILING.
13. LATERAL FORCE BRACING:
    LATERAL FORCE BRACING IS REQUIRED IN ACCORDANCE WITH THIS SECTION FOR ALL CEILING AREAS, UON.

EXCEPTION: LATERAL FORCE BRACING MAY BE OMITTED FOR SUSPENDED ACOUSTICAL CEILING SYSTEMS WITH A CEILING AREA OF 144 SQ. FT. OR LESS, WHEN PERIMETER SUPPORT IN ACCORDANCE WITH ASTM E580 ARE PROVIDED AND PERIMETER WALLS ARE DESIGNED TO CARRY THE CEILING LATERAL FORCES.

   a. PROVIDE LATERAL-FORCE BRACING ASSEMBLIES CONSISTING OF A STRUT AND FOUR (4) #12 GAGE BRACING WIRES ORIENTED 90 DEGREES FROM EACH OTHER.
   b. LATERAL-FORCE BRACING ASSEMBLIES SHALL BE SPACED IN ACCORDANCE WITH 1/A5-70 FROM EACH WALL AND AT THE EDGES OF ANY CHANGE OF ELEVATION OF THE CEILING.
   c. THE SLOPE OF BRACING WIRES MAY BE FROM 10 TO 45 DEGREES BUT MAY NOT EXCEED 45 DEGREES FROM THE PLANE OF THE CEILING AND WIRES SHALL BE TAUT.
   d. STRUTS SHALL BE ADEQUATE TO RESIST THE VERTICAL COMPONENT INDUCED BY THE BRACING WIRES, AND SHALL NOT BE MORE THAN 1 (HORIZONTAL) IN 6 (VERTICAL) OUT OF PLUMB.
14. ATTACHMENT OF HANGER AND BRACING WIRES:
   a. FASTEN #12 HANGER WIRES WITH NOT LESS THAN THREE (3) TIGHT TURNS IN 3 INCHES. HANGER WIRE LOOPS SHALL BE TIGHTLY WRAPPED AND SHARPLY BENT TO PREVENT ANY VERTICAL MOVEMENT OR ROTATION OF THE MEMBER WITHIN THE LOOPS.
   b. FASTEN #12 BRACING WIRES WITH FOUR (4) TIGHT TURNS. MAKE ALL TIGHT TURNS WITHIN A DISTANCE OF 1 1/2" INCHES.
   c. HANGER OR BRACING WIRE ANCHORED TO THE STRUCTURE SHOULD BE INSTALLED IN SUCH A MANNER THAT THE DIRECTION OF THE ANCHOR ALIGNS AS CLOSELY AS POSSIBLE WITH THE DIRECTION OF THE WIRE.
   d. SEPARATE ALL CEILING HANGER AND BRACING WIRES AT LEAST SIX (6) INCHES FROM ALL UNBRACED DUCTS, PIPES CONDUITS, ETC.
   e. HANGER WIRES SHALL NOT BE ATTACHED TO OR BEND AROUND INTERFERING MATERIAL OR EQUIPMENT. PROVIDE TRAPEZE OR OTHER SUPPLEMENTARY SUPPORT MEMBERS AT OBSTRUCTIONS TO TYPICAL HANGER SPACING. PROVIDE ADDITIONAL HANGERS, STRUTS OR BRACES AS REQUIRED AT ALL CEILING BREAKS, SOFFITS, OR DISCONTINUOUS AREAS.
   f. HANGER WIRES THAT ARE MORE THAN 1 (HORIZONTAL) IN 6 (VERTICAL) OUT OF PLUMB SHALL REQUIRE PROJECT SPECIFIC DESIGN.
   g. WHEN DRILLED-IN CONCRETE ANCHORS OR PAF ARE USED IN REINFORCED CONCRETE FOR HANGER WIRES, 1 OUT OF 10 WIRE/ ANCHOR ASSEMBLIES SHALL BE FIELD TESTED FOR 200 LBS. IN TENSION. WHEN DRILLED-IN CONCRETE ANCHORS ARE USED FOR BRACING WIRES, 1 OUT OF 2 WIRE/ANCHOR ASSEMBLIES SHALL BE FIELD TESTED FOR 40 LBS. IN TENSION IN THE DIRECTION OF THE WIRE. PAF IN CONCRETE ARE NOT PERMITTED FOR BRACING WIRES.
15. CEILING FIXTURES, TERMINALS, AND DEVICES:
   a. CEILING PANELS SHALL NOT SUPPORT ANY LIGHT FIXTURES, AIR TERMINALS/GRILLS, OR OTHER DEVICES (REFERRED TO ALL BY COMMON TERM FIXTURES HERE AFTER).
   b. ALL FIXTURES SHALL BE MOUNTED IN A MANNER THAT WILL NOT COMPROMISE CEILING PERFORMANCE.
   c. ALL FIXTURES SHALL BE ATTACHED TO THE SUSPENDED CEILING SYSTEM BY MECHANICAL MEANS, UNLESS INDEPENDENTLY SUPPORTED. THE ATTACHMENT DEVICE SHALL HAVE THE CAPACITY OF 100% OF FIXTURE WEIGHT ACTING IN ANY DIRECTION, A MINIMUM OF TWO ATTACHMENT DEVICES ARE REQUIRED FOR EACH FIXTURE.
   d. SURFACE MOUNTED FIXTURES SHALL BE ATTACHED TO THE MAIN RUNNER WITH POSITIVE CLAMPING DEVICES MADE OF MATERIAL WITH A MINIMUM 14 GAGE. A NO.12 GAUGE SAFETY WIRES SHALL BE ATTACHED BETWEEN THE CLAMPING DEVICE AND TO THE STRUCTURE ABOVE. IN NO CASE SHALL THE FIXTURES EXCEED THE DESIGN CAPACITY OF THE SUPPORTING MEMBERS.
   e. ALL FIXTURES WEIGHING LESS THAN OR EQUAL TO 10 LB. SHALL HAVE ONE NO. 12 GAUGE SAFETY WIRE CONNECTED FROM FIXTURE HOUSING TO STRUCTURE ABOVE. IT IS NOT NECESSARY FOR THESE SAFETY WIRES TO BE TAUT.
   f. ALL FIXTURES WEIGHING GREATER THAN 10 LB BUT LESS THAN OR EQUAL TO 56 LB. SHALL HAVE TWO NO. 12 GAUGE SAFETY WIRE CONNECTED FROM FIXTURE HOUSING TO STRUCTURE ABOVE. IT IS NOT NECESSARY FOR THESE SAFETY WIRES TO BE TAUT.
   g. ALL FIXTURES WEIGHING GREATER THAN 56 LB. SHALL BE SUPPORTED DIRECTLY FROM STRUCTURE ABOVE BY APPROVED HANGERS.
   h. PENDENT-HUNG FIXTURES SHALL BE SUPPORTED DIRECTLY FROM THE STRUCTURE ABOVE USING NO LESS THAN N0. 9-GAUGE WIRE OR AN APPROVED ALTERNATE SUPPORT. THE CEILING SUSPENSION SYSTEM SHALL NOT PROVIDE ANY DIRECT SUPPORT.
   i. ALL RECESSED OR DROP-IN FIXTURES SHALL BE SUPPORTED DIRECTLY FROM FIXTURE HOUSING TO THE STRUCTURE ABOVE WITH A MINIMUM OF TWO NO. 12 GAUGE WIRES LOCATED AT DIAGONALLY OPPOSITE CORNERS. LEVELING OR POSITIONING OF FIXTURES MAY BE PROVIDED BY CEILING GRID. FIXTURE SUPPORT WIRES MAY BE SLIGHTLY LOOSE TO ALLOW THE FIXTURE TO SEAT IN THE GRID SYSTEM. FIXTURES SHALL NOT BE SUPPORTED FROM MAIN RUNNERS OR CROSS RUNNERS IF THE WEIGHT OF THE FIXTURES CAUSES TOTAL DEAD LOAD TO EXCEED THE DEFLECTION CAPABILITY OF THE CEILING SUSPENSION SYSTEM.
16. ADDITIONAL REQUIREMENTS:
   a. CEILINGS THAT ARE PART OF A FIRE RATED ASSEMBLY: PROVIDE A DETAIL AND DESIGN NUMBER FOR RATED CEILING ASSEMBLIES FROM AN APPROVED TESTING AGENCY. THE COMPONENTS AND INSTALLATION DETAILS CONFORM IN EVERY RESPECT WITH THE LISTED DETAIL AND NUMBER. DETAILS SHALL CLEARLY DEPICT ALL COMPONENTS, INCLUDING INSULATION MATERIALS, FRAMING AND ATTACHMENT OF THE DESIGN SO THAT THE ASSEMBLY CAN BE CONSTRUCTED AND INSPECTED ACCORDINGLY. POP RIVETS, SCREWS, OR OTHER ATTACHMENTS ARE NOT ACCEPTABLE UNLESS SPECIFICALLY DETAILED ON THE DRAWINGS AND APPROVED BY APPROVED TESTING AGENCY.
   b. METAL AND OTHER PANELS: METAL PANELS AND PANELS WEIGHING MORE THAN 1/2 PSF, OTHER THAN MINERAL FIBER ACOUSTICAL TILE, ARE TO BE POSITIVELY ATTACHED TO THE CEILING SUSPENSION RUNNERS.
   c. BUILDING EXIT WAYS: CEILINGS IN EXIT WAYS SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 13.5.6.2.2(1) OF ASCE 7-16 AS AMENDED BY 2019 CBC SECTION 1616A.1.20. SPLICES OR INTERSECTION OF RUNNERS SHALL BE ATTACHED WITH THROUGH CONNECTORS SUCH AS POP RIVETS, SCREWS, PINS, PLATES WITH END TABS OR OTHER OSHPD APPROVED CONNECTORS.

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ELECTRICAL:	AG DESIGN, INC. 171 S. ANITA DR. SUITE 111 ORANGE, CALIFRONIA 92868 TEL(714)769-9900 EXT. 201
SHIELDING:	MRI SHIELDING CORPORATION 3554 BUISNESS PARK DR., SUITE B COSTA MESA, CA 92626 TEL(714)545-7700
INTERIORS:	ISLEY DESIGN & PLANNING 1982 PALSERO AVENUE ESCONDIDO, CA 92029 TEL(760)484-0455

LICENSED ARCHITECT
JOSEPH MICHAEL SFEIR
No. C 28543
REN 1-31-23
STATE OF CALIFORNIA

REV.	DESCRIPTION:	DATE:
1	OSHPD COMMENTS	8/3/2020
2	DESIGN CHANGES	8/10/2020
3	OSHPD COMMENTS	10/2/2020
4	OSHPD COMMENTS	11/24/2020
5	DESIGN CHANGES	11/24/2020
6	ACD 0001 DESIGN CHANGES	4/10/2021
7	ACD 0001 DESIGN CHANGES	5/8/2021

CONSULTANT

OSHPD APPROVAL STAMP:

OSHPD #: S200813-37-00-ACD0001

SHEET TITLE:

LAY-IN CEILING DETAILS

PROJECT TITLE:

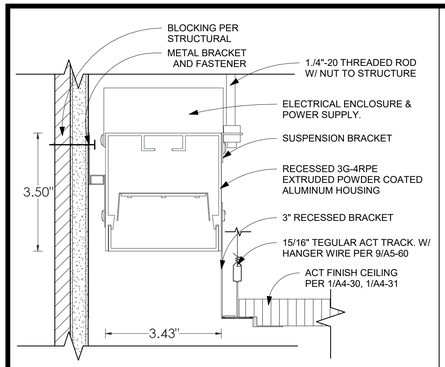
TCMC MRI

PROJECT #:	01907.01
DRAWN BY:	Author
CHECKED BY:	Checker
SCALE:	PER TITLE
DATE:	3/11/2020

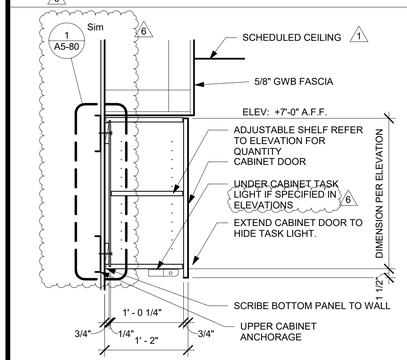
SHEET NUMBER:

A5-70

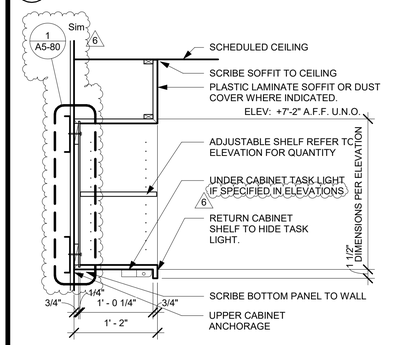
100% - CONSTRUCTION DOCUMENTS



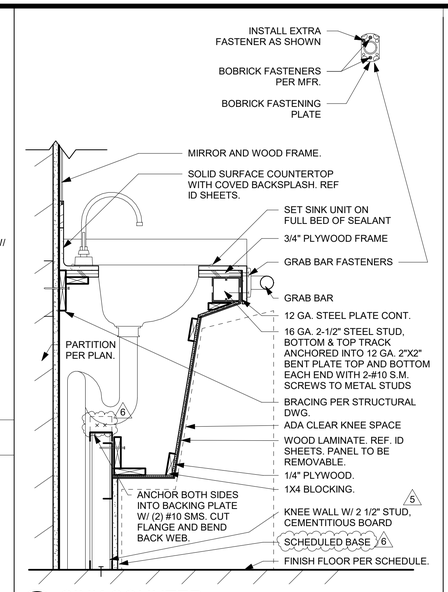
14 Ceiling Cove light
6" = 1'-0"



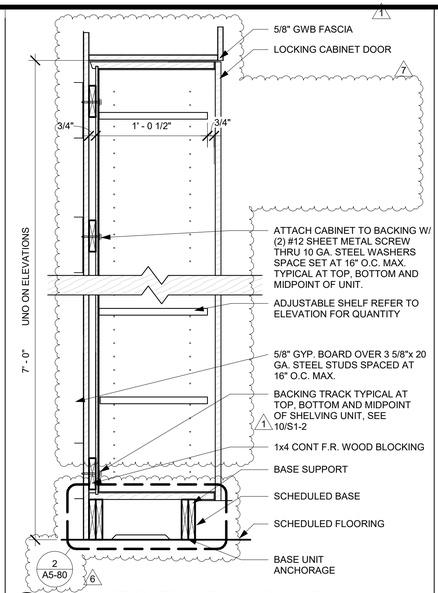
13 TYPICAL UPPER CABINET - CLOSED
1" = 1'-0"



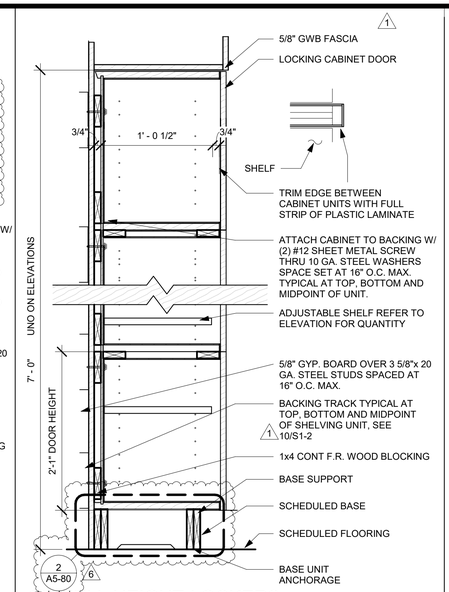
12 TYPICAL UPPER CABINET - OPEN
1" = 1'-0"



10 SINK COUNTER
1 1/2" = 1'-0"



7 FULL HEIGHT-SHELVING UNIT
1 1/2" = 1'-0"



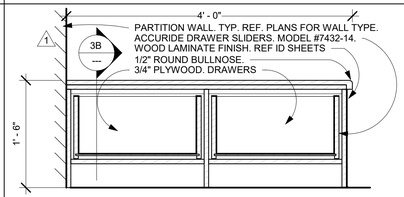
4 FULL HEIGHT-LOCKERS
1 1/2" = 1'-0"

GENERAL NOTES:

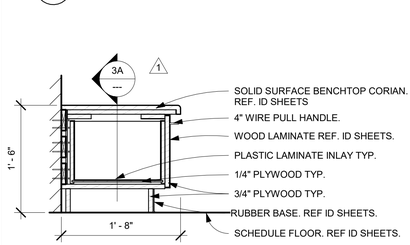
1. THE GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND MEASUREMENTS IN THE FIELD PRIOR TO STARTING CONSTRUCTION.
2. REFER TO GENERAL NOTES ON SHEET A0-00 FOR INFORMATION NOT INDICATED ON THIS SHEET.

CASEWORK GENERAL NOTES:

1. ALL CASEWORK SHALL BE "CUSTOM" GRADE AS DEFINED BY THE WOODWORK INSTITUTE. 6
2. FINISH ALL EXPOSED AND SEMI-EXPOSED SURFACES OF CASEWORK INCLUDING THE INTERIOR OF OPEN CASEWORK AND SHELVING WITH PLASTIC LAMINATE. ALL COUNTERTOPS SHALL BE PLASTIC LAMINATE UNLESS NOTED OTHERWISE.
3. BASES ON CASEWORK SHALL BE 4" UNLESS OTHERWISE NOTED. PROVIDE SAME FINISH BASE MATERIAL AS ADJACENT WALLS. EXTEND BASE TO WALL AT ALL CABINET RETURNS AND END PANELS.
4. IN CASES OF CABINET INSTALLATIONS BETWEEN WALLS, VERIFY DIMENSIONS IN FIELD AND PROVIDE FILLER PANEL STRIPS AT ENDS OR REDUCE END CABINETS WIDTH AS REQUIRED TO FIT SPACE AS INDICATED.
5. ALL CABINET DOORS AND DRAWERS SHALL HAVE PULLS. UPPER AND LOWER CABINET DOORS AND FULL HEIGHT CABINETS SHALL HAVE PULLS MOUNTED VERTICALLY. DRAWERS SHALL HAVE HORIZONTAL PULLS.
6. ALL FILE DRAWERS SHALL BE SIZED FOR 8 1/2"x 11" FORMS. PROVIDE FILE RODS EXTENDING FRONT TO BACK OF DRAWER UNIT. TYPICAL
7. COORDINATE HEIGHT AND LOCATION OF BACKING PLATES FOR CASEWORK WITH STUD FRAMING CONTRACTOR.
8. REFER TO DETAIL SHEET FOR WALL CABINET ANCHORAGE/BACKING TRACK CONNECTION.
9. GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS OF ROUGH OPENINGS AND COORDINATE W/OWNER FOR ALL EQUIPMENTS CLEARANCES PRIOR TO PREPARING SHOP DRAWINGS AND FABRICATION.
10. SECURE ALL ENDS OF COUNTER TOPS TO EXISTING PARTITIONS.



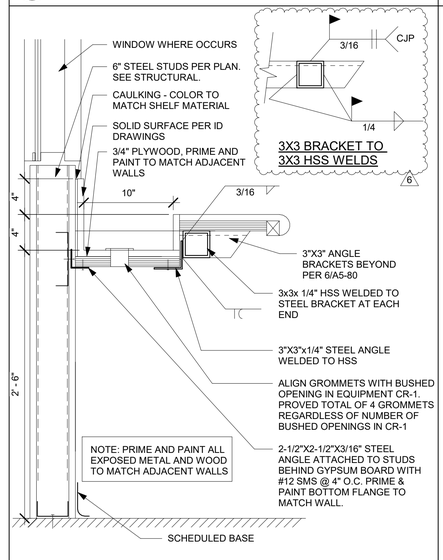
A LONG SECTION



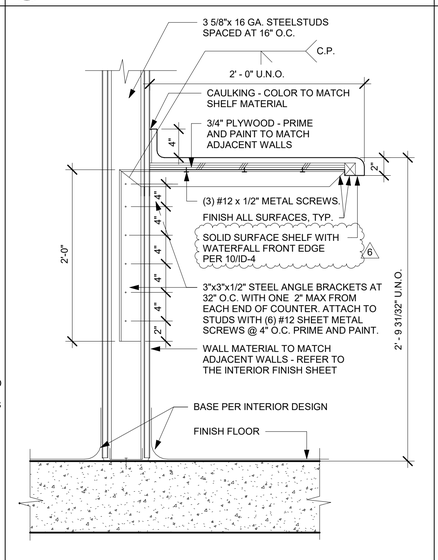
B SHORT SECTION

3

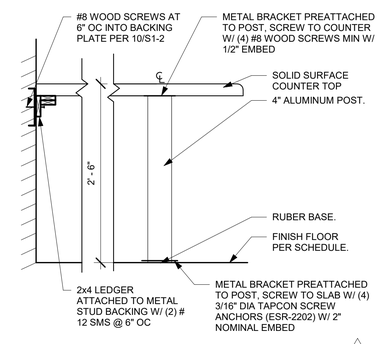
3 BENCH & DRAWER
1" = 1'-0"



9 RECESSED DESK
1 1/2" = 1'-0"

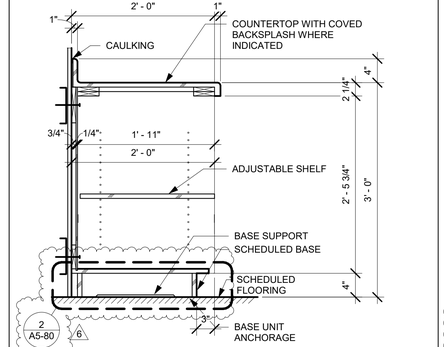


6 SECTION THROUGH COUNTER
1 1/2" = 1'-0"

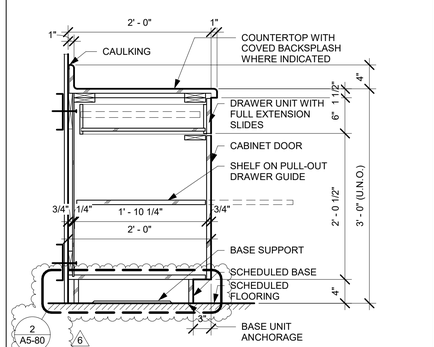


11 WORK TABLE
1" = 1'-0"

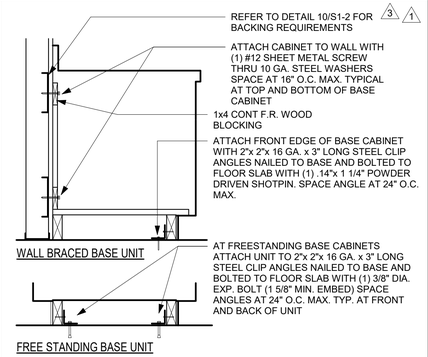
3



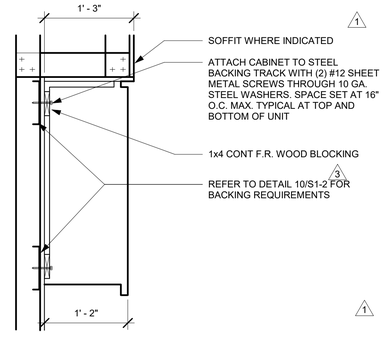
8 BASE CABINET UNIT - OPEN
1" = 1'-0"



5 BASE CABINET WITH PULLOUT SHELF
1" = 1'-0"



2 BASE CABINET ANCHORAGE
1" = 1'-0"



1 UPPER CABINET ANCHORAGE
1" = 1'-0"

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LICENSED ARCHITECT
JOSEPH MICHAEL SFEIR
No. C 28543
REN 1-31-23
STATE OF CALIFORNIA

1	1	OSHPD COMMENTS	8/3/2020
2	2	DESIGN CHANGES	8/10/2020
3	3	OSHPD COMMENTS	10/2/2020
4	4	OSHPD COMMENTS	11/24/2020
5	5	DESIGN CHANGES	11/24/2020
6	6	ACD 0001 DESIGN CHANGES	4/10/2021
7	7	ACD 0001 DESIGN CHANGES	5/9/2021

REV: DESCRIPTION: DATE:

CONSULTANT

OSHPD APPROVAL STAMP:

OSHPD #: S200813-37-00-ACD0001

SHEET TITLE:

CASEWORK DETAILS

PROJECT TITLE:

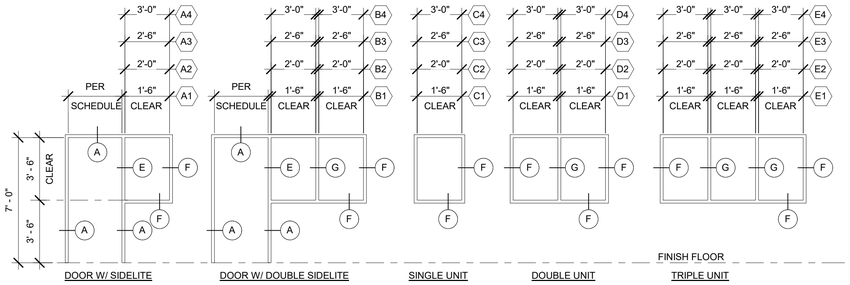
TCMC MRI

PROJECT #: 01907.01
DRAWN BY: Author
CHECKED BY: Checker
SCALE: PER TITLE
DATE: 3/11/2020

SHEET NUMBER:

A5-80

100% - CONSTRUCTION DOCUMENTS

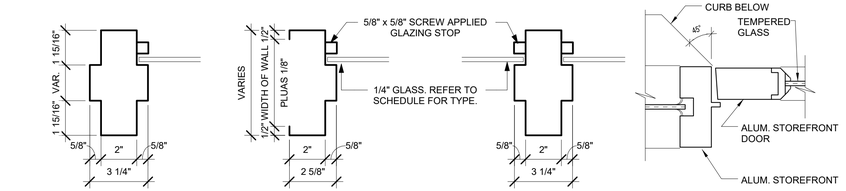


3 FRAME ELEVATIONS
1/4" = 1'-0"

NOTES:
1. GLAZE WINDOWS WITH 1/4" POLISHED WIRE GLASS IN PAINTED STEEL FRAME. SET ALL GLAZING STOPS ON CORRIDOR SIDE OF FRAME.
2. REFER TO DETAIL 4/A6-00 THIS SHEET FOR FRAMES.

DOOR AND FRAME SCHEDULE

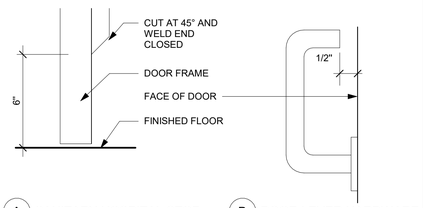
OPNG. NO.	DOOR TYPE	DOOR OPENING SIZE (W)	DOOR OPENING SIZE (H)	DOOR MATERIAL	DOOR FINISH	FRAME TYPE	FRAME MATERIAL	FRAME FINISH	DETAILS HEAD	DETAILS JAMB	DETAILS THRESHOLD	LABEL	HDWR. SET	NOTES: (#)
100A	CUSTOM	4' -0"	7' -0"	AAL	BRZ	4H	AAL	BRZ	4H	4H	7	NR	1	12, 7
101A	1A	3' - 6"	7' - 0"	SCWD	ST	4A	STEEL	PTD	5	6	N/A	1 HR	10	6, 10
102A	CUSTOM	3' - 10"	7' - 0"	CUSTOM	ST	-	CUSTOM	PTD	1/MRI.5	1/MRI.5	1/MRI.5	NR	9	1, 10
105A	1A	3' - 0"	7' - 0"	SCWD	ST	4B	STEEL	PTD	5 SIM.	6 SIM.	N/A	NR	11	6
107A	1D	6' - 0"	7' - 0"	SCWD	ST	4A	STEEL	PTD	5	6	N/A	NR	4	2, 3, 5, 8, 10, 11
107B	1D	6' - 0"	7' - 0"	SCWD	ST	4A	STEEL	PTD	5	6	N/A	1 HR	5	2, 3, 5, 8
107C	1D	6' - 0"	7' - 0"	SCWD	ST	4A	STEEL	PTD	5	6	N/A	NR	8	
108A	1A	3' - 0"	7' - 0"	SCWD	ST	4A	STEEL	PTD	5	6	N/A	NR	7	
108B	1A	3' - 0"	7' - 0"	SCWD	ST	4A	STEEL	PTD	5	6	N/A	1 HR	10	
108C	1E	3' - 0"	7' - 0"	SCWD	ST	4B	STEEL	PTD	CUSTOM	CUSTOM	N/A	N/A	13	9
109A	1A	3' - 0"	7' - 0"	SCWD	ST	4B	STEEL	PTD	5 SIM.	6 SIM.	N/A	NR	11	
110A	1E	3' - 0"	7' - 0"	SCWD	ST	4B	STEEL	PTD	CUSTOM	CUSTOM	N/A	N/A	12	4, 9
111A	1A	3' - 0"	7' - 0"	SCWD	ST	4A	STEEL	PTD	5	6	N/A	1 HR	6	
113A	1A	3' - 0"	7' - 0"	SCWD	ST	4A	STEEL	PTD	5	6	N/A	20 MIN	10	
201A	1B	2' - 10"	7' - 0"	SCWD	ST	4A	STEEL	PTD	5	6	N/A	20 MIN	2	



E DOOR JAMB W/ WDW. | F TYPICAL WINDOW JAMB | G INTERMEDIAL WINDOW JAMB | H ALUMINUM DOOR JAMB

A TYPICAL DOOR JAMB | B JAMB AT CASED OPENING | C DOUBLE EGRESS JAMB | D DOUBLE EGRESS HEAD

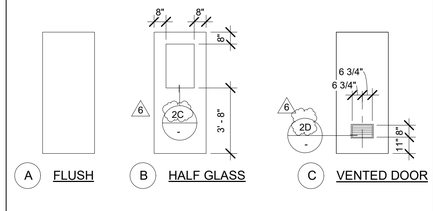
4 FRAME TYPES
3" = 1'-0"



A SANITARY HOSPITAL STOP (NOT ALLOWED AT RATED FRAMES.) | B DOOR LEVER HARDWARE

C STEEL GLASS STOP | D STEEL LOUVER

2 DOOR DETAILS
12" = 1'-0"

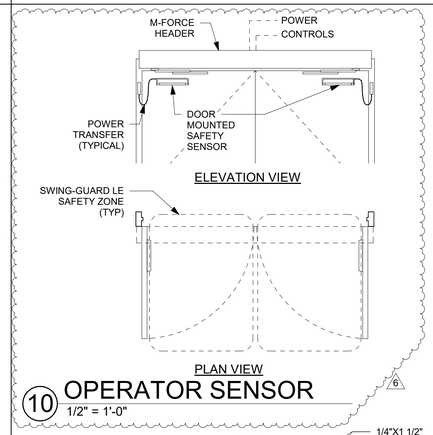


A FLUSH | B HALF GLASS | C VENTED DOOR

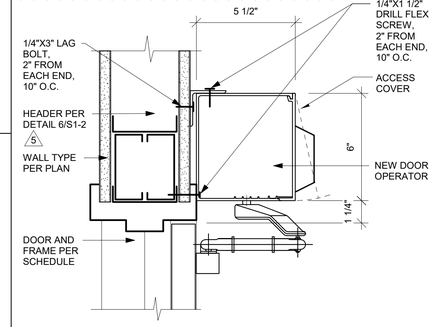
D DOUBLE FLUSH | E BARN DOOR

F VIEW DOOR | G STOREFRONT

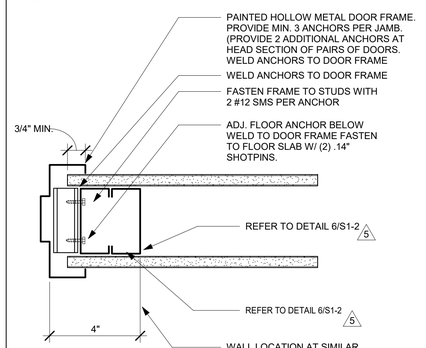
1 DOOR TYPES
1/4" = 1'-0"



10 OPERATOR SENSOR
1/2" = 1'-0"



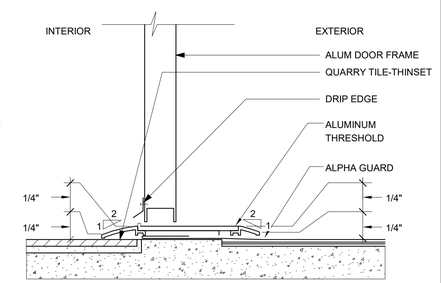
8 DOOR OPERATOR - SECTION
3" = 1'-0"



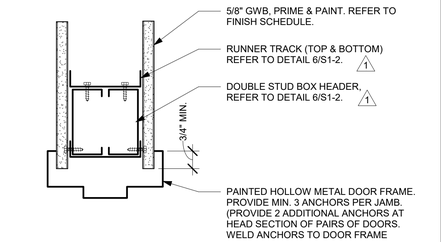
NOTE:
REFER TO FLOOR PLAN FOR REQUIRED PARTITION TYPE AND NUMBER OF GYP. BOARD LAYERS.

6 TYPICAL DOOR JAMB
3" = 1'-0"

9 MAGNETIC WARNING SIGN
3/4" = 1'-0"



7 Threshold-Aluminum
N.T.S.



NOTE:
REFER TO FLOOR PLAN FOR REQUIRED PARTITION TYPE AND NUMBER OF GYP. BOARD LAYERS.

5 TYPICAL DOOR HEAD
3" = 1'-0"

GENERAL NOTES:

1. THE GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND MEASUREMENTS IN THE FIELD PRIOR TO STARTING CONSTRUCTION.
2. REFER TO GENERAL NOTES ON SHEET A0-00 FOR INFORMATION NOT INDICATED ON THIS SHEET.

DOOR SCHEDULE GENERAL NOTES:

1. PROVIDE SANITARY "HOSPITAL STOPS" AT ALL NON-RATED INTERIOR DOOR FRAMES.
2. ALL DOORS SHALL RECEIVE LEVER TYPE HARDWARE WITH A PROFILE EQUAL TO DETAIL/2B.THIS SHEET U.N.O.
3. GLAZED OPENINGS IN 20 AND 45 MINUTE ASSEMBLIES SHALL NOT EXCEED 1296 SQ. INCHES AND SHALL BE GLAZED WITH 1/4" WIRE GLASS SET IN PAINTED STEEL FRAME.
4. GLAZED OPENINGS IN 60 AND 90 MINUTE ASSEMBLIES SHALL NOT EXCEED 100 SQ. INCHES AND SHALL BE GLAZED WITH 1/4" WIRE GLASS SET IN PAINTED STEEL FRAME.
5. FRAMES OF GLAZED OPENINGS IN DOORS SHALL BE PRIMED AND PAINTED TO MATCH DOOR FRAMES.
6. CENTER OF DOOR HINGE PIVOT SHALL BE LOCATED AT 4" FROM ADJACENT PARTITION UON.

DOOR SCHEDULE KEYNOTES:

1. R.F. SHIELDED DOOR BY MRI CORPORATION. SEE MRI CORP SHIELDING DRAWINGS.
2. DOOR OPERATOR WITH LOCATION SENSOR ON BOTH SIDES. SEE DETAIL 8/A6-00 AND 10 THIS SHEET.
3. HAND WAVE READER DOOR OPERATOR.
4. PRIVACY LOCK AND GASKETS.
5. FULL SIZE KICK PLATE.
6. KICK PLATE.
7. DOOR CLOSER. CLOSES BY FIRE ALARM SIGNAL.
8. CARD READER DOOR OPERATOR.
9. SLIDING BARN DOOR. "OPENING SIZE" INDICATES CLEAR OPENING. BARN DOOR IS LARGER. SEE CUTSHEET IN SPECBOOK.
10. PROVIDE DOOR SIGNAGE PER DETAIL 9/A6-00.
11. PROVIDE METAL DETECTOR **FerrAlert™ Halo** II PER SPECIFICATIONS AND DETAILS FOUND IN SPECBOOK APPENDIX A.
12. REINSTALL EXISTING ACCESSIBILITY PUSH PLATE AND CARD READER IF DAMAGED.

DOOR SCHEDULE FINISH LEGEND:

SCWD	SOLID CORE WOOD DOOR	ST	STAINED, MATCH EXISTING
PL	PLASTIC LAMINATE	NR	NOT RATED
PTD	PAINTED	BAST	BALISTIC STEEL
AC	ACROVYN	MAR	MARBLE
E	EXISTING TO REMAIN	AAL	ANODIZED ALUMINUM
BRZ	BRONZE FINISH		

SFEIR ARCHITECTS
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TCMC MRI

Tri-City Medical Center

4002 VISTA WAY
OCEANSIDE CA, 92056

OWNER: TRI-CITY MEDICAL CENTER, 4002 VISTA WAY, OCEANSIDE, CALIFORNIA 92056, TEL(760)940-7709

ARCHITECT: SFEIR ARCHITECTS, 5151 SHOREHAM PL SUITE 265, SAN DIEGO, CALIFORNIA 92122, TEL(619)299-3917

STRUCTURAL: MIYAMOTO INTERNATIONAL, INC., 5550 BALTIMORE DRIVE, SUITE 100, LA MESA, CA 91942, TEL(858)457-3001

MECHANICAL &PLUMBING: SC ENGINEERS, INC., 17075 VIA DEL CAMPO, SAN DIEGO, CALIFORNIA 92127, TEL(858)946-0333

ELECTRICAL: AG DESIGN, INC., 171 S. ANITA DR. SUITE 111, ORANGE, CALIFRONIA 92868, TEL(714)769-9900 EXT. 201

SHIELDING: MRI SHIELDING CORPORATION, 3554 BUISNESS PARK DR., SUITE B, COSTA MESA, CA 92626, TEL(714)545-7700

INTERIORS: ISLEY DESIGN & PLANNING, 1982 PALSERO AVENUE, ESCONDIDO, CA 92029, TEL(760)484-0455

LICENSED ARCHITECT JOSEPH MICHAEL SFEIR No. C 28543 REN. 1-31-23 STATE OF CALIFORNIA

1	1	OSHPD COMMENTS	8/3/2020
2	2	DESIGN CHANGES	8/10/2020
3	3	OSHPD COMMENTS	10/2/2020
4	4	OSHPD COMMENTS	11/24/2020
5	5	DESIGN CHANGES	11/24/2020
6	6	ACD 0001 DESIGN CHANGES	4/10/2021
7	7	ACD 0001 DESIGN CHANGES	5/8/2021

REV: DESCRIPTION: DATE:

CONSULTANT

OSHPD APPROVAL STAMP:

OSHPD #: S200813-37-00-ACD0001

SHEET TITLE:

DOOR AND INTERIOR OPENINGS SCHEDULE

PROJECT TITLE:

TCMC MRI

PROJECT #: 01907.01
DRAWN BY: Author
CHECKED BY: Checker
SCALE: PER TITLE
DATE: 3/11/2020

SHEET NUMBER: A6-00

100% - CONSTRUCTION DOCUMENTS

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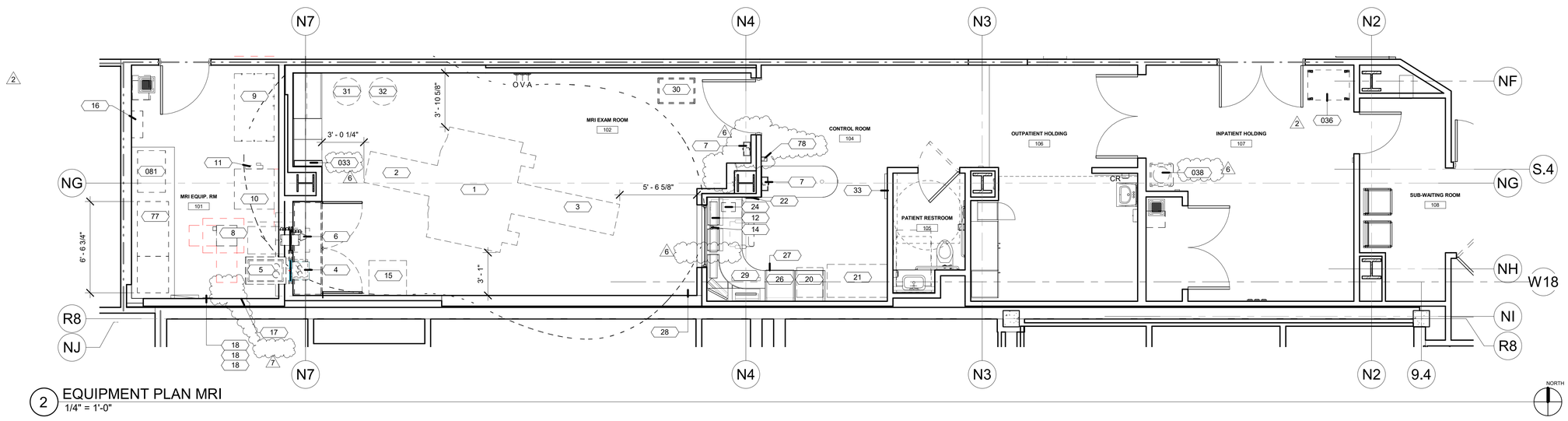
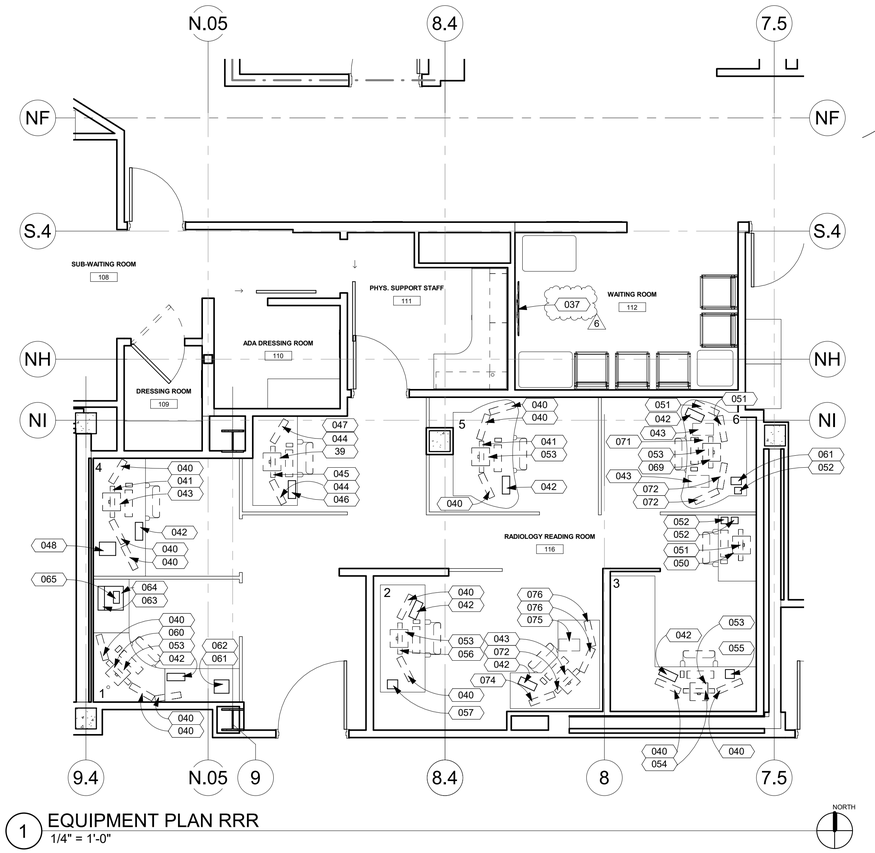


2 EQUIPMENT PLAN MRI
1/4" = 1'-0"



1 EQUIPMENT PLAN RRR
1/4" = 1'-0"

S F E I R
A R C H I T E C T S

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San Diego, CA 92122

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LICENSED ARCHITECT
JOSEPH MICHAEL SFEIR
No. C 28543
REN 1-31-23
STATE OF CALIFORNIA

1	1	OSHPD COMMENTS	8/3/2020
2	2	DESIGN CHANGES	8/10/2020
3	3	OSHPD COMMENTS	10/2/2020
4	4	OSHPD COMMENTS	11/24/2020
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REV: DESCRIPTION: DATE:

CONSULTANT

OSHPD APPROVAL STAMP:
OSHPD #: S200813-37-00-ACD0001

SHEET TITLE:
EQUIPMENT PLAN
DETAILS AND SCHEDULE

PROJECT TITLE:
TCMC MRI

PROJECT #: 01907.01
DRAWN BY: Author
CHECKED BY: Checker
SCALE: PER TITLE
DATE: 3/11/2020

SHEET NUMBER:
A6-20

100% - CONSTRUCTION DOCUMENTS

OFOI : OWNER FURNISHED, OWNER INSTALLED
OFCI : OWNER FURNISHED, CONTRACTOR INSTALLED
CFCI : CONTRACTOR FURNISHED, CONTRACTOR INSTALLED

EQUIPMENT SCHEDULE

EQUIPMENT #	DESCRIPTION	WEIGHT (APPROX.)		HEIGHT=h	WIDTH=b	DEPTH=d	CENTER OF MASS (in)	PLAN / ELEVATION DETAIL	REMARKS	EXIS.	NEW	OFOI	OFCI	CFCI	QUANTITY	VOLTAGE	EMERGENCY POWER	ELECTRICAL LOAD	HEAT LOAD (BTUs)	SEISMIC CALCS	PLUMBING	CLASSIFICATION: FIXED	MOVABLE	MOBILE	COUNTER TOP EQUIPMENT	COUNTERTOP	TEMPORARY	INTERIM	OTHER ESSENTIAL	OTHER
001	3T MAGNET	16,410	LBS	93.8"	97.13"	91.7	42.1"	10/S4-1	SEE NOTE #1 & #2, GE-1	-	X	X	-	-	1	-	-	-	8,189	-	-	x	-	-	-	-	-	-	-	-
002	REAR PEDESTAL	212	LBS	-	-	-		10/S4-1	SEE NOTE #2, GE-2	-	X	X	-	-	1	-	-	-	-	-	-	-	x	-	-	-	-	-	-	-
003	GEM PATIENT TABLE	963/463	LBS	40.0"	40.35"	89.65"		10/S4-1	SEE NOTE #2, GE-3	-	X	X	-	-	1	-	-	-	-	-	-	-	-	x	-	-	-	-	-	-
004	BLOWER BOX	-		-	-	-		-	SEE NOTE #2, GE-6	-	X	X	-	-	1	-	-	-	1,535	-	-	x	-	-	-	-	-	-	-	-
005	PENETRATION CABINET	639	LBS	75.6"	23.5"	35.04"	23.5"	3/S4-1	SEE NOTE #2, GE-7	-	X	X	-	-	1	-	-	-	1,024/ 10,697	-	-	x	-	-	-	-	-	-	-	-
006	SECONDARY PENETRATION WALL	92	LBS	60.53"	17.62"	20.42"	33.23	4/S4-1	SEE NOTE #2, GE-8	-	X	X	-	-	1	-	-	-	-	-	-	x	-	-	-	-	-	-	-	-
007	MAGNET RUNDOWN UNIT	7	LBS	8.1"	11.3"	5.6"		-	SEE NOTE #2, GE-4	-	X	X	-	-	2	-	-	-	-	-	-	x	-	-	-	-	-	-	-	-
008	CRYOCOOLER COMPRESSOR	264	LBS	23.25"	17.72"	17.72"	13.15"	6/S4-1	SEE NOTE #2, GE-12	-	X	X	-	-	1	-	-	-	1,706	-	-	-	-	x	-	-	-	-	-	-
009	POWER, GRADIENT, RF CABINET	3,279	LBS	74.6"	58.27"	34.33"	28.38"	3/S4-1	SEE NOTE #2, GE-9	-	X	X	-	-	1	-	-	-	20,940	-	-	x	-	-	-	-	-	-	-	-
010	HEAT EXCHANGER CABINET	1,350	LBS	74.6"	46"	34.33"	28.38"	3/S4-1	SEE NOTE #2, GE-10	-	X	X	-	-	1	-	-	-	3,412	-	-	x	-	-	-	-	-	-	-	-
011	MAGNET MONITOR	10	LBS	11.25"	15"	5"		-	SEE NOTE #2, GE-11	-	X	X	-	-	1	-	-	-	819	-	-	x	-	-	-	-	-	-	-	-
012	OPERATOR CONSOLE COMPUTER	141.75	LBS	23.35"	15.79"	29.72"	11.73"	3/S4-1	SEE NOTE #2, GE-13	-	X	X	-	-	1	-	-	-	4,947	-	-	x	-	-	-	-	-	-	-	-
013	NOT USED																													
014	PNEUMATIC PATIENT ALERT	0.5	LBS	2.5"	3"	4.375"		-	SEE NOTE #2, GE-15	-	X	X	-	-	1	-	-	-	-	-	-	-	-	-	-	x	-	-	-	-
015	PHANTOM CABINET SET STORAGE CABINET	350	LBS	60"	31.75"	32.5"		6/S4-1	SEE NOTE #2, GE-5	-	X	X	-	-	1	-	-	-	-	-	-	-	x	-	-	-	-	-	-	-
016	MAIN DISCONNECT PANEL	130	LBS	36.3"	26.3"	12.3"	18.5"	4/S4-1	SEE NOTE #2, GE-17	-	X	-	X	-	1	-	-	-	901	-	-	x	-	-	-	-	-	-	-	-
017	WATER FILTER	-		-	-	-		-	SEE NOTE #2, GE-19	-	X	-	X	-	1	-	-	-	-	-	-	x	-	-	-	-	-	-	-	-
018	KENALL DC POWER SUPPLY	-		15.18"	8.62"	2.93"		-	SEE NOTE #2, GE-22	-	X	-	-	X	1	-	-	-	1,024	-	-	x	-	-	-	-	-	-	-	-
019	NOT USED																													
020	PYXIS MEDSTATION 2 DRAWER MAIN	-		27.8"	27"	22.8"		-	-	-	X	-	X	-	1	-	-	-	-	-	-	x	-	-	-	-	-	-	-	-
021	PYXIS DOUBLE COLUMN	640	LBS	79.5"	28"	52"	-	6/S3-1	-	-	X	-	X	-	1	-	-	-	-	-	-	x	-	-	-	-	-	-	-	-
022	REMOTE GRAPHIC DISPLAY	0.5	LBS	-	-	-		-	SEE NOTE #2, GE-20	-	X	-	X	-	1	-	-	-	-	-	-	x	-	-	-	-	-	-	-	-
023	NOT USED	-		-	-	-		-	-	-	X	-	-	-	-	-	-	-	-	-	-	x	-	-	-	-	-	-	-	-
024	700 VA PARTIAL UPS	26	LBS	-	-	-		-	SEE NOTE #2, GE-16	-	X	X	-	-	1	-	-	-	-	-	-	-	-	-	-	x	-	-	-	-
025	NOT USED																													
026	PRINTER	28	LBS	-	-	-		-	-	-	X	X	-	-	1	-	-	-	-	-	-	-	-	-	-	x	-	-	-	-
027	RECYCLE BIN	5	LBS	-	-	-		-	-	-	X	X	-	-	1	-	-	-	-	-	-	-	x	-	-	-	-	-	-	-
028	CCTV MONITOR	16	LBS	-	-	-		-	-	-	X	-	-	X	1	-	-	-	-	-	-	-	-	-	-	x	-	-	-	-
029	CERNER STATION	16	LBS	-	-	-		-	-	-	X	-	X	-	1	-	-	-	-	-	-	-	x	-	-	-	-	-	-	-
030	ANESTHESIA CART	180	LBS	-	-	-		-	-	-	X	X	-	-	1	-	-	-	-	-	-	-	-	x	-	-	-	-	-	-
031	MOBILE PHYSIO MONITOR	-		-	-	-		-	-	-	X	X	-	-	1	-	-	-	-	-	-	-	-	x	-	-	-	-	-	-
032	MOBILE INJECTOR	-		-	-	-		-	-	-	X	X	-	-	1	-	-	-	-	-	-	-	-	x	-	-	-	-	-	-
033	SLIDE TRANSFER & WALL RACK	-		-	-	-		-	-	-	X	X	-	-	1	-	-	-	-	-	-	-	-	x	-	-	-	-	-	-
034	DIMPLEX CHILLER	4,400	LBS	100"	86"	31.4"	47"	1/S2-30	SEE NOTE #2, GE-18	-	X	-	X	-	1	-	-	-	240,002	-	-	x	-	-	-	-	-	-	-	-
035	SPLIT SYSTEM CONDENSER UNIT	479	LBS	71 5/8"	36 1/4"	29 3/16"		2/S2-30	-	-	X	-	-	X	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
036	CRASH CART.	135	LBS	-	-	-		-	-	X	-	X	-	-	1	-	-	-	-	-	-	-	-	-	x	-	-	-	-	-
037	42" FLAT SCREEN TV.	26	LBS	-	-	-		-	-	-	X	-	X	-	1	-	-	-	-	-	-	x	-	-	-	-	-	-	-	-
038	SOILED LINEN CART.	20	LBS	-	-	-		-	-	-	X	X	-	-	1	-	-	-	-	-	-	-	-	x	-	-	-	-	-	-
039	PC MCKESSON	22	LBS	16.5"	7"	18.5"		-	SEE NOTE #3: 1,	X	-	X	-	-	1	-	-	-	-	-	-	-	-	-	-	-	x	-	-	-
040	MONITOR DISPLAY SONY	27.12	LBS	22.5"	14.5"	8"		-	SEE NOTE #3: 1,3,4,5,9	X	-	X	-	-	5	-	-	-	-	-	-	-	-	-	-	-	x	-	-	-
041	MONITOR DISPLAY ACER	7.4	LBS	22.5"	13"	5.5"		-	SEE NOTE #3: 1,9	X	-	X	-	-	2	-	-	-	-	-	-	-	-	-	-	-	x	-	-	-
042	PHONE NORTEL	3.34	LBS	5"	12"	8.5"		-	NOTE #3: 1,3,4,5,6,9,10	X	-	X	-	-	7	-	-	-	-	-	-	-	-	-	-	-	x	-	-	-
043	PC DELL (01)	24	LBS	14"	7"	16.5"		-	SEE NOTE #2: 1,8	X	-	X	-	-	2	-	-	-	-	-	-	-	-	-	-	-	x	-	-	-
044	MONITOR DISPLAY BARCO (LARGE)	29.76	LBS	22.5"	16"	8"		-	SEE NOTE #3: 1	X	-	X	-	-	1	-	-	-	-	-	-	-	-	-	-	-	x	-	-	-
045	MONITOR DISPLAY BARCO (SMALL)	22	LBS	18"	18"	9"		-	SEE NOTE #3: 1	X	-	X	-	-	1	-	-	-	-	-	-	-	-	-	-	-	x	-	-	-
046	PHONE SHORETEL	1.5	LBS	5"	10"	7"		-	SEE NOTE #3: 1	X	-	X	-	-	1	-	-	-	-	-	-	-	-	-	-	-	x	-	-	-
047	APC SURGE PROTECTOR	2.3	LBS	2.5"	8"	8"		-	SEE NOTE #3: 1,7,	X	-	X	-	-	2	-	-	-	-	-	-	-	-	-	-	-	x	-	-	-
048	APC UPS	12.13	LBS	4"	7"	11"		-	SEE NOTE #3: 1,	X	-	X	-	-	1	-	-	-	-	-	-	-	-	-	-	-	x	-	-	-
049	X-RAY VIEWER	8.8	LBS	21"	28"	4"		-	-	X	-	X	-	-	1	-	-	-	-	-	-	-	-	-	-	-	x	-	-	-
050	PC DELL (02)	24	LBS	18"	7"	17.5"		-	SEE NOTE #3: 2,	X	-	X	-	-	1	-	-	-	-	-	-	-	-	-	-	-	x	-	-	-
051	MONITOR DISPLAY MCKESSON	24.2	LBS	21"	18.5"	9"		-	SEE NOTE #3: 2,8	X	-	X	-	-	2	-	-	-	-	-	-	-	-	-	-	-	x	-	-	-
052	NETWORK SWITCH	0.66	LBS	1"	4"	4"		-	SEE NOTE #3: 2,8	X	-	X	-	-	2	-	-	-	-	-	-	-	-	-	-	-	x	-	-	-
053	PC DELL (03)	24	LBS	14"	7"	17"		-	SEE NOTE #3: 3,8,9	X	-	X	-	-	3	-	-	-	-	-	-	-	-	-	-	-	x	-	-	-
054	MONITOR DISPLAY DELL	22	LBS	22"	13"	7"		-	SEE NOTE #3: 3	X	-	X	-	-	1	-	-	-	-	-	-	-	-	-	-	-	x	-	-	-
055	APC UPS 350	9.22	LBS	3.5"	10"	6"		-	SEE NOTE #3: 3	X	-	X	-	-	1	-	-	-	-	-	-	-	-	-	-	-	x	-	-	-
056	MONITOR DISPLAY VIEWSONIC	14.9	LBS	21.5"	12"	9"		-	SEE NOTE #3: 4,	X	-	X	-	-	1	-	-	-	-	-	-	-	-	-	-	-	x	-	-	-
057	APC UPS 550	12.13	LBS	3.5"	7"	11"		-	SEE NOTE #3: 4,	X	-	X	-	-	1	-	-	-	-	-	-	-	-	-	-	-	x	-	-	-
058	X-RAY BOARD	48	LBS	3.5	57"	40"		-	-	X	-	X	-	-	1	-	-	-	-	-	-	-	-	-	-	-	x	-	-	-
059	X-RAY VIEWER	22	LBS	5"	31"	36"		-	-	X	-	X	-	-	1	-	-	-	-	-	-	-	-	-	-	-	x	-	-	-
060	MONITOR DISPLAY ACER	9.4	LBS	23"	13"	10"		-	SEE NOTE #3: 5,	X	-	X	-	-	1	-	-	-	-	-	-	-	-	-	-	-	x	-	-	-
061	CYBER POWER UPS 550	5.9	LBS	3.5"	10"	9"		-	SEE NOTE #3: 5,8	X	-	X	-	-	2	-	-	-	-	-	-	-	-	-	-	-	x	-	-	-
062	NETGEAR ROUTER	4.8	LBS	1.5"	4"	4.5"		-	SEE NOTE #3: 5,	X	-	X	-	-	1	-	-	-	-	-	-	-	-	-	-	-	x	-	-	-
063	ONKYO A/V TUNER	20.5	LBS	6"	18"	12"		-	SEE NOTE #3: 5,	X	-	X	-	-	1	-	-	-	-	-	-	-	-	-	-	-	x	-	-	-
064	DENON CD CHANGER	12.66	LBS	4.5"	17"	16"		-	SEE NOTE #3: 5,	X	-	X	-	-	1	-	-	-	-	-	-	-	-	-	-	-	x	-	-	-
065	SPEAKER SELECTOR	2	LBS	2.5"	8.5"	4"		-	SEE NOTE #3: 5,	X	-	X	-	-	1	-	-	-	-	-	-	-	-	-	-	-	x	-	-	-
066	PC DELL	28	LBS	11"	4"	12"		-	SEE NOTE #3: 6,	X	-	X	-	-	1	-	-	-	-	-	-	-	-	-	-	-	x	-	-	-
067	MONITOR DISPLAY DELL	23	LBS	19"	22"	8"		-	SEE NOTE #3: 6,	X	-	X	-	-	1	-	-	-	-	-	-	-	-	-	-	-	x	-	-	-
068	SCANNER	16	LBS	12"	12"	9"		-	SEE NOTE #3: 6,	X	-	X	-	-	1	-	-	-	-	-	-	-	-	-	-	-	x	-	-	-
069	PC DELL	27	LBS	12"	4"	12"		-	SEE NOTE #3: 7,8,	X	-	X	-	-	2	-	-	-	-	-	-	-	-	-	-	-	x	-	-	-
070	MONITOR DISPLAY HP	27.5	LBS	15"	18.5"	8"		-	SEE NOTE #3: 7,	X	-	X	-	-	1	-	-	-	-	-	-	-	-	-	-	-	x	-	-	-
071	BLACK BOX PC SELECTOR	8	LBS	4"	10.5"	6"		-	SEE NOTE #3: 8,	X	-	X	-	-	1	-	-	-	-	-	-	-	-	-	-	-	x	-	-	-
072	MONITOR DISPLAY DELL	15	LBS	17"	16"	8"		-	SEE NOTE #3: 8,	X	-	X	-	-	1	-	-	-	-	-	-	-	-	-	-	-	x	-	-	-
073	X-RAY BOARD	56	LBS	5"	87"	36"		-	SEE NOTE #3: 8,	X	-	X	-	-	1	-	-	-	-	-	-	-	-	-	-	-	x	-	-	-
074	PC DELL	28	LBS	24"	8.5"	20.5"		-	SEE NOTE #3: 10,	X	-	X	-	-	1	-	-	-	-	-	-	-	-	-	-	-	x	-	-	-
075	MONITOR DISPLAY ACER	12	LBS	19"	25.5"	8"		-	SEE NOTE #3: 10,	X	-	X	-	-	1	-	-	-	-	-	-	-	-	-	-	-	x	-	-	-
076	MONITOR DISPLAY ACER	10	LBS	23"	12"	8"		-	SEE NOTE #3: 10,	X	-	X	-	-	1	-	-	-	-	-	-	-	-	-	-	-	x	-	-	-
077	UPS AND BATTERY CABINET.	2,250	LBS	70.7"	36"	29.5"		3/S4-1	-	-	X	-	-	-	1	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-
078	HAND-HELD FERRO-MAGNETIC WAND DETECTOR	-		-	-	-		-	SEE NOTE #2, GE-24	-	X	-	-	-	1	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-
079	NOT USED	-		-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
080	NOT USED	-		-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
081	MBC MRI (MAINTENANCE BYPASS CABINET)	660	LBS	90.5"	26.5"	30"	50"	9/S4-1		-	X	-	X	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

GENERAL NOTES:

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2. REFER TO GENERAL NOTES ON SHEET A0-00 FOR INFORMATION NOT INDICATED ON THIS SHEET.

EQUIPMENT SCHEDULE NOTES:

1. GENERAL CONTRACTOR IS RESPONSIBLE TO PROTECT THE FINISH FLOOR & PROVIDE STEEL PLATES AS NEEDED TO PREVENT DAMAGE TO THE EXTERIOR AND INTERIOR SLAB ON GRADE.
2. SEE GE DRAWINGS FOR REFERENCE.
3. EXISTING EQUIPMENT. SUBSEQUENT NUMBERS SHOWN IN THE SCHEDULE ARE FOR FACILITY REFERENCE ONLY.
4. PATIENT TABLE DOCK MOUNTING PER GE-S3 TO BE CONTRACTOR FURNISHED AND INSTALLED.

S F E I R
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17075 VIA DEL CAMPO
SAN DIEGO, CALIFORNIA 92127
TEL(858)946-0333

ELECTRICAL: AG DESIGN, INC.
171 S. ANITA DR. SUITE 111
ORANGE, CALIFRONIA 92868
TEL(714)769-9900 EXT. 201

SHIELDING: MRI SHIELDING CORPORATION
3554 BUISNESS PARK DR., SUITE B
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INTERIORS: ISLEY DESIGN & PLANNING
1982 PALSERO AVENUE
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LICENSED ARCHITECT
JOSEPH MICHAEL SFEIR
No. C 28543
REN. 1-31-23
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2	2	DESIGN CHANGES	8/10/2020
3	3	OSHPD COMMENTS	10/2/2020
4	4	OSHPD COMMENTS	11/24/2020
5	5	DESIGN CHANGES	11/24/2020
6	6	ACD 0001 DESIGN CHANGES	4/10/2021
7	7	ACD 0001 DESIGN CHANGES	5/8/2021

REV: DESCRIPTION: DATE:

CONSULTANT

OSHPD APPROVAL STAMP:

OSHPD #: S200813-37-00-ACD0001

SHEET TITLE:

EQUIPMENT SCHEDULE

PROJECT TITLE:

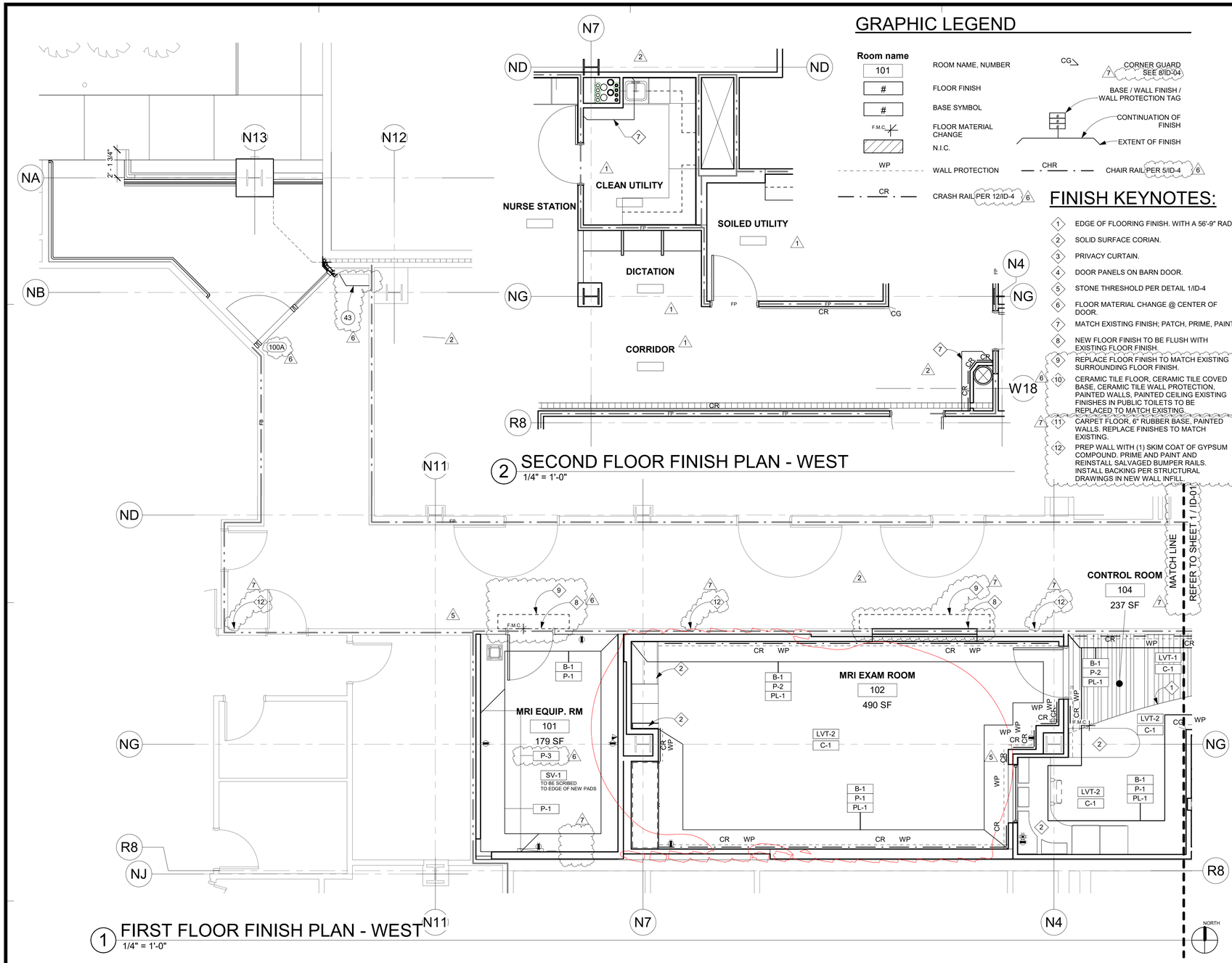
TCMC MRI

PROJECT #: 01907.01
DRAWN BY: Author
CHECKED BY: Checker
SCALE: PER TITLE
DATE: 3/11/2020

SHEET NUMBER:

A6-21

100% - CONSTRUCTION DOCUMENTS



2 SECOND FLOOR FINISH PLAN - WEST
1/4" = 1'-0"

1 FIRST FLOOR FINISH PLAN - WEST
1/4" = 1'-0"

GRAPHIC LEGEND

Room name
101

ROOM NAME, NUMBER
FLOOR FINISH
BASE SYMBOL
FLOOR MATERIAL CHANGE
N.I.C.
WALL PROTECTION
CRASH RAIL PER 12/ID-4
CORNER GUARD SEE 8/ID-04
BASE / WALL FINISH / WALL PROTECTION TAG
CONTINUATION OF FINISH
EXTENT OF FINISH
CHAIR RAIL PER 5/ID-4

FINISH KEYNOTES:

1. EDGE OF FLOORING FINISH. WITH A 56'-9" RADIUS.
2. SOLID SURFACE CORIAN.
3. PRIVACY CURTAIN.
4. DOOR PANELS ON BARN DOOR.
5. STONE THRESHOLD PER DETAIL 1/ID-4
6. FLOOR MATERIAL CHANGE @ CENTER OF DOOR.
7. MATCH EXISTING FINISH; PATCH, PRIME, PAINT.
8. NEW FLOOR FINISH TO BE FLUSH WITH EXISTING FLOOR FINISH.
9. REPLACE FLOOR FINISH TO MATCH EXISTING SURROUNDING FLOOR FINISH.
10. CERAMIC TILE FLOOR, CERAMIC TILE COVED BASE, CERAMIC TILE WALL PROTECTION, PAINTED WALLS, PAINTED CEILING EXISTING FINISHES IN PUBLIC TOILETS TO BE REPLACED TO MATCH EXISTING.
11. CARPET FLOOR, 6" RUBBER BASE, PAINTED WALLS. REPLACE FINISHES TO MATCH EXISTING.
12. PREP WALL WITH (1) SKIM COAT OF GYPSUM COMPOUND, PRIME AND PAINT AND REINSTALL SALVAGED BUMPER RAILS. INSTALL BACKING PER STRUCTURAL DRAWINGS IN NEW WALL INFILL.

GENERAL NOTES:

1. THE GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND MEASUREMENTS IN THE FIELD PRIOR TO STARTING CONSTRUCTION.
2. REFER TO GENERAL NOTES ON SHEET A0-00 FOR INFORMATION NOT INDICATED ON THIS SHEET.

FINISH PLAN GENERAL NOTES:

1. PATCH AND REPAIR FINISHES IN LIKE KIND WHERE AFFECTED BY NEW CONSTRUCTION ON EXISTING BUILDING FINISHES.
2. ALL WINDOW COVERING TO BE CENTERED ON STOREFRONT AND INTALL PER MANUFACTURER'S REQUIREMENTS.
3. REFER TO ENLARGE FLOOR PLANS FOR CORNER GUARDS, CRASH RAIL AND CHAIRD RAIL LOCATONS.
4. REFER TO INTERIOR ELEVATIONS AND SHEET A5-80 FOR ALL CASEWORK FINISHES.
5. CONTRACTOR SHALL SUBMIT SIX (6) COPIES OF MANUFACTURER'S SPECIFICATIONS AND INSTALLATION INSTRUCTIONS FOR ALL FLOORING, CEMENT LEVELING AND PATCHING MATERIALS. PERFORM STRICTLY IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. PROVIDE MAINTENANCE INFORMATION TO THE FACILITIES MAINTENANCE DEPARTMENT.
6. PATCH AND REPAIR EXISTING SUB FLOOR SLAB AS REQUIRED TO PROVIDE A SMOOTH SURFACE FOR NEW FLOORING PER MANUFACTURER'S INSTALLATION REQUIREMENTS. PROVIDE SELF-LEVELING UNDERLAYMENT CONCRETE.
7. FLOORING PREPARATION SHALL BE PERFORMED AS REQUIRED BY THE FLOOR FINISH MANUFACTURER IN A MANNER SUCH THAT THE MANUFACTURER'S PRODUCT WARRANTY WILL REMAIN IN EFFECT. IF FIELD CONDITIONS REQURIE VARIATIONS FROM MANUFACTURER'S REQUIREMENTS, THE CONTRACTOR SHALL NOTIFY THE FACILITIES MANAGER IN WRITING DTO RECEIVE INSTRUCTIONS ON HOW TO PROCEED.
8. ALL ADHESIVES FOR FINISH MATERIALS SHALL HAVE LOW VOC EMISSIONS. CONTRACTOR SHALL PROVIDE DIRECT VENTILATION TO PREVENT VOC'S OUT GASSING FROM ADHESIVES FROM ENTERING THE BUILDING HVAC SYSTEM AND AFFECTING THE OCCUPANTS OF THE BUILDING.
9. CONTRACTOR TO PROVIDE TRANSITIONS BETWEEN FLOORING MATERIALS PER DETAILS ON SHEET ID-4. ALL TRANSITIONS LOCATED UNDER DOORS, TO BE CENTERED UNDER DOOR.
10. DOOR SWING: CONTRACTOR SHALL INSTALL ALL NEW FLOORING SUCH THAT IT DOES NOT INTERFERE WITH EXISTING DOORS AND SUCH A WAY THAT EXISTING DOORS DO NOT TOUCH THE SURFACE OF NEW FLOORING. ANY PROBLEMATIC DOORS SHALL BE BROUGHT TO THE ATTENTION FO THE FACILITIES CONSTRUCTION REPRESENTATIVE PRIOR TO FLOORING PREPARATION.
11. PERFORM CALCIUM CHLORIDE TEST FOR ALL SLAB SUBFLOORS WHERE SLAB IS NEW, OR ALL EXISTING SLAB ON GRADE LOCATIONS. WHERE EXISTING SLAB IS ABOVE GRADE, CONTRACTOR MAY LIMIT TESTING TO AREAS NEAR A SOURCE OF WATER SUCH AS AROUND PLUMBING LINES, SHOWER STALLS, ROOF DRAINS, ETC. WHERE MOISTURE IN THE SLAB EXCEEDS FINISH MATERIAL'S MANUFACTURER'S RECOMMENDATIONS, REFER TO NOTES ABOVE FOR MANUFACTURER'S WARRANTY REQUIREMENTS.
12. CONTRACTOR TO INCLUDE ALLOWANCE FOR CONCRETE SLAB SEALER TO BE FURNISHED AND APPLIED UNDER ALL FLOOR FINISHES ON SLAB ON GRADE TO MEET FLOOR FINISH MANUFACTURER'S REQUIREMENTS AND WARRANTY.
13. CONTRACTOR SHALL VERIFY LEAD TIMES FOR ALL FINISH MATERIALS AND SHALL BE RESPONSIBLE TO HAVE ALL MATERIALS ON THE JOB SITE ON TIME. NO SUBSTITUTIONS SHALL BE MADE DUE TO LATE ORDERING OF MATERIALS.
14. CONTINUE ALL FLOOR FINISHES UNDER ALL APPLIANCES AND REMOVABLE CABINETS AND EQUIPMENT.

PAINT AND WALL FINISHES:

15. PAINT FINISHES (SHEEN) AS FOLLOWS:
    A. WALLS: EGGSHELL SHEEN
       a. EXCEPTIONS SIMI GLOSS SHEEN AT: TOILETS PUBLIC AND LABS, FOOD SERVICE AREAS, TRASH AND UTILITY ROOMS.
    B. PAINTED DOORS & FRAMES: SEMI GLOSS
    C. CEILING AND SOFFITS: FLAT

NOTE : REFER TO ARCHITECTURAL ELEVATIONS WHERE FOR LOCATIONS WHERE EPOXY PAINT IS REQUIRED.

16. SUBMIT ALL FINISH SAMPLES TO ARCHITECT FOR APPROVAL, INCLUDING DRAW DOWNS OF ALL PAINT COLORS IN ALL FINISH TYPES AS USED.
17. PAINT ALL ACCESS PANELS TO MATCH ADJ. WALL SURFACE.
18. PLASTER FINISH SHALL BE LEVEL FOR WHERE A PAINTED FINISH SURFACE IS SHOWN.

RESILIENT FLOORING:

19. ALL RESILIENT FLOORING INSTALLATIONS SHALL BE COMPLETED TO THE POINT READY FOR THE FIRST DAY OF USE AND IN AS NEW CONDITION, CLEAN CONSTRUCTION DUST AND DERBY, DAMP MOP AND APPLY A SEALER OR WAXED PER MANUFACTURER'S RECOMMENDATIONS FOR THE PRODUCT. FLOORING CONTRACTOR TO PROVIDE THE PRODUCT SPECIFICATION AND A RECOMMENDED REAPPLICATION TIME FOR THE SEALER OR WAX TO THE FACILITIES MAINTENANCE OFFICE.
20. ALL SHEET GOODS OF RESILIENT FLOORING SHALL BE INSTALLED USING HEAT WELD SEAMS, WELDING RODS SHALL MATCH THE COLOR OF THE FLOORING MATERIAL UNLESS OTHERWISE NOTED ON THE FINISH PLAN OR LEGEND.

CASEWORK AND MILL WORK:

21. ALL CASEWORK AND MILL WORK TO CONFORM TO THE REQUIREMENTS OF THE LATEST EDITION OF W.I.C. FOR CUSTOM GRADE.
22. WOOD SAMPLES PROVIDED TO THE COTNRACTOR ARE FOR COLOR ONLY. CONTRACTOR TO SUBMITT SAMPLES FOR ALL WOOD FINISHES FOR APPROVAL AND VERFIY SHEEN OF FINISH FOR ALL LOCATIONS OF STAINED WOOD FINISH. SUBMITTALS SHALL INCLUDE INFORMATION ON THE SPECIES OF WOOD USED, VENEER MATCHING PROPOSED AND CLEAR FINISH PROPOSED OVER THE STAIN.
23. SHOP DRAWINGS SHALL BE SUBMITTED FOR ALL CASEWORK AND MILL WORK.

FLAME SPREAD:

24. FLAME SPREAD OF FINISH MATERIALS: WALL, FLOOR AND CEILING SHALL NOT EXCEED THE FLAME SPREAD CLASSIFICATIONS IN CBC TABLE 803.13

CARPET:

25. CONTRACTOR TO SUPPLY 5% OVERAGE FOR "STOCK."

LEGEND: INTERIOR FINISHES

WALL FINISHES:

PT-1
MATERIAL: PORCELAIN TILE
MANUF: DAL TILE
STYLE: FLORENTINE
COLOR: #FL07 MARFIL
SIZE: 12" x 12"
GROUT: CBP Fusion Pro – COLOR #122 LINEN
LAYOUT: RUNNING BOND
EDGING: USE SHLUTER DILEX-AHK COVE TRIM AT WALL-TO-FLOOR INTERSECTION
NOTE: MINIMIZE GROUT JOINT

PT-2
MATERIAL: PORCELAIN TILE
MANUF: DAL TILE
STYLE: SANTINO COLORBODY PORCELAIN
COLOR: #SN06 BIANCA
SIZE: 12" x 24"
GROUT: CBP Fusion Pro - Color #122 LINEN
LAYOUT: RUNNING BOND
EDGING: USE SHLUTER QUADEC TRIM AT OUTSIDE CORNERS
TRIM: 4" x 18" BULLNOSE AT TOP OF WAINSCOT; 6" x 24" AT BASE OF WALL
NOTE: MINIMIZE GROUT JOINT

WALL FINISHES CONT.:

PL-1
MATERIAL: PLASTIC LAMINATE
MANUF: WILSONART
COLOR: #79298-38 HUNTINGTON MAPLE
FINISH: FINE VELVET TEXTURE

P-1
MATERIAL: PAINT - WALLS
MANUF: SHERWIN WILLIAMS (MATCH FRAZEE COLOR LIFE)
COLOR: #2661 STALISBURY
FINISH: EGGSHELL

P-2
MATERIAL: PAINT - ACCENT WALLS
MANUF: SHERWIN WILLIAMS
COLOR: #SW 7507 STONE LION
FINISH: EGGSHELL

CEILING FINISHES :

C-1
MATERIAL: PAINT - CEILINGS
MANUF: SHERWIN WILLIAMS
COLOR: #SW 7004 SNOWBOUND
FINISH: EGGSHELL

FLOOR FINISHES:

CPT-1
MATERIAL: CARPET-MODULAR TILE
MANUF: MANNINGTON
STYLE: TSN
COLOR: #15121 FUDGE BROWNIE
SIZE: 24" x 24"

FLOOR FINISHES CONT.:

LVT-1:
MATERIAL: LUXURY VINYL TILE
MANUF: MANNINGTON
STYLE: NATURE'S PATH
COLOR: HERITAGE CHERRY - NATURAL
SIZE: 6" x 36"

LVT-2:
MATERIAL: LUXURY VINYL TILE
MANUF: MANNINGTON
STYLE: AMTICO SIGNATURE STONE
COLOR: RIVERSTONE TUNDRA AROSRS40
SIZE: 18" x 18"

SV-1:
MATERIAL: HOMOGENEOUS SHEET VINYL
MANUF: MANNINGTON
STYLE: BIOSPEC
COLOR: #15357 CHERRYWOOD
SEAM'G: HEAT WELD

FLOOR FINISHES CONT.:

B-1
MATERIAL: 6" RUBBER BASE
MANUF: BURKE
COLOR: #503 GINGER
SEAM'G: HEAT WELD

SURFACE FINISHES:

COUNTER TOPS & BENCHES
MATERIAL: SOLID SURFACE
MANUF: CORIAN
COLOR: WITCH HAZEL
EDGE DETAIL: 0'-2" WATERFALL

INTEGRAL SINKS
MATERIAL: SOLID SURFACE
MANUF: CORIAN
COLOR: BONE

SURFACE FINISHES CONT.:

CORNER GUARDS, CHAIR RAILS, & WALL PROTECTION
MATERIAL: ACROVYN
MANUF: CONSTRUCTION SPECIALTIES, INC.
COLOR: 920 ALMOND

PRIVACY CURTAIN
MANUF: PALLAS TEXTILES
STYLE: LIMN COLLECTION
PATTERN: CAMAIEU
COLOR: CHAI
NUMBER: 29.096.011
NOTE: PROVIDE 18" MESH AT TOP OF DRAPE

PANELS AT BARN DOORS
MANUF: 3-FORM
STYLE: VARIA
PATTERN: BANANA FIBER (DARK)
FINISH: STUCCO F06
DIFFUSE: WHITE OUT 5%
NUMBER: 29.096.011
NOTE: LOCATE PATTERN TOWARD SUB-WAITING ROOM SIDE.

CONCRETE PADS - PAINTED WITH EPOXY
P-3
PREPARATION: SSPC-SP13/NACE or ICRI No. 310.2, CSP 1-3
FIRST COAT: SHERWIN WILLIAMS ARMORSEAL 33 EPOXY 8.0 MILS DFT PERIMITER/SEALER
SECOND COAT: SHERWIN WILLIAMS ARMORSEAL 1000 HS EPOXY MINIMUM 3.0 MILS, MAXIMUM 5.0 MILS DFT
THIRD COAT: SHERWIN WILLIAMS ARMORSEAL 1000 HS EPOXY MINIMUM 3.0 MILS, MAXIMUM 5.0 MILS DFT

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TCMC MRI

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ELECTRICAL:	AG DESIGN, INC. 171 S. ANITA DR. SUITE 111 ORANGE, CALIFRONIA 92868 TEL(714)769-9900 EXT. 201
SHIELDING:	MRI SHIELDING CORPORATION 3554 BUISNESS PARK DR., SUITE B COSTA MESA, CA 92626 TEL(714)545-7700
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LICENSED ARCHITECT
JOSEPH MICHEL SFEIR
No. C 28543
REN. 1-31-23
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REV: DESCRIPTION: DATE:

CONSULTANT

OSHPD APPROVAL STAMP:

OSHPD #: S200813-37-00-ACD0001

SHEET TITLE:

1/4" PARTIAL FLOOR PLAN

PROJECT TITLE:

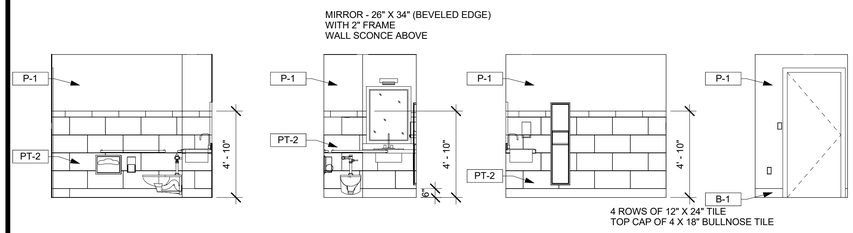
TCMC MRI

PROJECT #: 01907.01
DRAWN BY: Author
CHECKED BY: Checker
SCALE: PER TITLE
DATE: 3/11/2020

SHEET NUMBER:

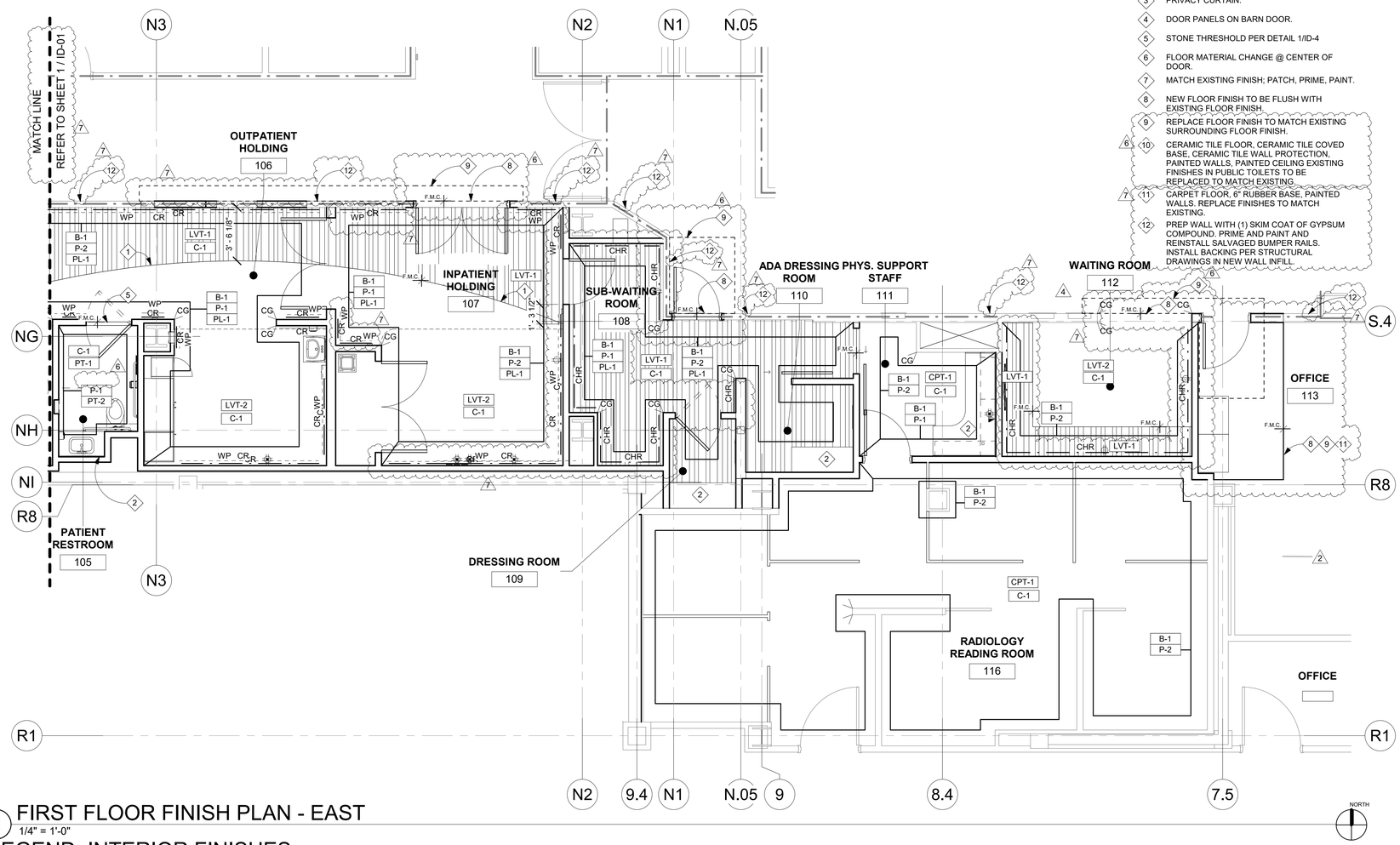
ID-01

100% - CONSTRUCTION DOCUMENTS



2 ID BATHROOM ELEVATIONS

1/4" = 1'-0"



1 FIRST FLOOR FINISH PLAN - EAST

1/4" = 1'-0"

GRAPHIC LEGEND

Room name
101
ROOM NAME, NUMBER
2 # FLOOR FINISH
BASE SYMBOL
F.M.C. FLOOR MATERIAL CHANGE
N.I.C. SCHLUTER SCHEINE TRIM @ TOP EDGE (DOOR WALL)
WP WALL PROTECTION
CR CRASH RAIL PER 12/ID-4 6
CG CORNER GUARD SEE 8/ID-04 7
BASE / WALL FINISH / WALL PROTECTION TAG
CONTINUATION OF FINISH
EXTENT OF FINISH
CHR CHAIR RAIL PER 5/ID-4 6

FINISH KEYNOTES:

1. EDGE OF FLOORING FINISH. WITH A 56'-9" RADIUS.
2. SOLID SURFACE CORIAN.
3. PRIVACY CURTAIN.
4. DOOR PANELS ON BARN DOOR.
5. STONE THRESHOLD PER DETAIL 1/ID-4
6. FLOOR MATERIAL CHANGE @ CENTER OF DOOR.
7. MATCH EXISTING FINISH; PATCH, PRIME, PAINT.
8. NEW FLOOR FINISH TO BE FLUSH WITH EXISTING FLOOR FINISH.
9. REPLACE FLOOR FINISH TO MATCH EXISTING SURROUNDING FLOOR FINISH.
10. CERAMIC TILE FLOOR, CERAMIC TILE COVED BASE, CERAMIC TILE WALL PROTECTION, PAINTED WALLS, PAINTED CEILING EXISTING FINISHES IN PUBLIC TOILETS TO BE REPLACED TO MATCH EXISTING.
11. CARPET FLOOR, 6" RUBBER BASE, PAINTED WALLS. REPLACE FINISHES TO MATCH EXISTING.
12. PREP WALL WITH (1) SKIM COAT OF GYPSUM COMPOUND. PRIME AND PAINT AND REINSTALL SALVAGED BUMPER RAILS. INSTALL BACKING PER STRUCTURAL DRAWINGS IN NEW WALL INFILL.

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FINISH PLAN GENERAL NOTES:

1. PATCH AND REPAIR FINISHES IN LIKE KIND WHERE AFFECTED BY NEW CONSTRUCTION ON EXISTING BUILDING FINISHES.
2. ALL WINDOW COVERING TO BE CENTERED ON STOREFRONT AND INTALL PER MANUFACTURER'S REQUIREMENTS.
3. REFER TO ENLARGE FLOOR PLANS FOR CORNER GUARDS, CRASH RAIL AND CHAIRD RAIL LOCATONS. 5
4. REFER TO INTERIOR ELEVATIONS AND SHEET A5-80 FOR ALL CASEWORK FINISHES.
5. CONTRACTOR SHALL SUBMIT SIX (6) COPIES OF MANUFACTURER'S SPECIFICATIONS AND INSTALLATION INSTRUCTIONS FOR ALL FLOORING, CEMENT LEVELING AND PATCHING MATERIALS. PERFORM STRICTLY IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. PROVIDE MAINTENANCE INFORMATION TO THE FACILITIES MAINTENANCE DEPARTMENT.
6. PATCH AND REPAIR EXISTING SUB FLOOR SLAB AS REQUIRED TO PROVIDE A SMOOTH SURFACE FOR NEW FLOORING PER MANUFACTURER'S INSTALLATION REQUIREMENTS. PROVIDE SELF-LEVELING UNDERLAYMENT CONCRETE.
7. FLOORING PREPARATION SHALL BE PERFORMED AS REQUIRED BY THE FLOOR FINISH MANUFACTURER IN A MANNER SUCH THAT THE MANUFACTURER'S PRODUCT WARRANTY WILL REMAIN IN EFFECT. IF FIELD CONDITIONS REQURIE VARIATIONS FROM MANUFACTURER'S REQUIREMENTS, THE CONTRACTOR SHALL NOTIFY THE FACILITIES MANAGER IN WRITING DTO RECEIVE INSTRUCTIONS ON HOW TO PROCEED.
8. ALL ADHESIVES FOR FINISH MATERIALS SHALL HAVE LOW VOC EMISSIONS. CONTRACTOR SHALL PROVIDE DIRECT VENTILATION TO PREVENT VOC'S OUT GASSING FROM ADHESIVES FROM ENTERING THE BUILDING HVAC SYSTEM AND AFFECTING THE OCCUPANTS OF THE BUILDING.
9. CONTRACTOR TO PROVIDE TRANSITIONS BETWEEN FLOORING MATERIALS 6 PER DETAILS ON SHEET ID-4 . ALL TRANSITIONS LOCATED UNDER DOORS, TO BE CENTERED UNDER DOOR.
10. DOOR SWING: CONTRACTOR SHALL INSTALL ALL NEW FLOORING SUCH THAT IT DOES NOT INTERFERE WITH EXISTING DOORS AND SUCH A WAY THAT EXISTING DOORS DO NOT TOUCH THE SURFACE OF NEW FLOORING. ANY PROBLEMATIC DOORS SHALL BE BROUGHT TO THE ATTENTION FO THE FACILITIES CONSTRUCTION REPRESENTATIVE PRIOR TO FLOORING PREPARATION.
11. PERFORM CALCIUM CHLORIDE TEST FOR ALL SLAB SUBFLOORS WHERE SLAB IS NEW, OR ALL EXISTING SLAB ON GRADE LOCATIONS. WHERE EXISTING SLAB IS ABOVE GRADE, CONTRACTOR MAY LIMIT TESTING TO AREAS NEAR A SOURCE OF WATER SUCH AS AROUND PLUMBING LINES, SHOWER STALLS, ROOF DRAINS, ETC. WHERE MOISTURE IN THE SLAB EXCEEDS FINISH MATERIAL'S MANUFACTURER'S RECOMMENDATIONS, REFER TO NOTES ABOVE FOR MANUFACTURER'S WARRANTY REQUIREMENTS.
12. CONTRACTOR TO INCLUDE ALLOWANCE FOR CONCRETE SLAB SEALER TO BE FURNISHED AND APPLIED UNDER ALL FLOOR FINISHES ON SLAB ON 7 GRADE TO MEET FLOOR FINISH MANUFACTURER'S REQUIREMENTS AND WARRANTY.
13. CONTRACTOR SHALL VERIFY LEAD TIMES FOR ALL FINISH MATERIALS AND SHALL BE RESPONSIBLE TO HAVE ALL MATERIALS ON THE JOB SITE ON TIME. NO SUBSTITUTIONS SHALL BE MADE DUE TO LATE ORDERING OF MATERIALS.
14. CONTINUE ALL FLOOR FINISHES UNDER ALL APPLIANCES AND REMOVABLE CABINETS AND EQUIPMENT.

PAINT AND WALL FINISHES:

15. PAINT FINISHES (SHEEN) AS FOLLOWS:
    A. WALLS: EGGSHELL SHEEN
       a. EXCEPTIONS SIMI GLOSS SHEEN AT: TOILETS PUBLIC AND LABS, FOOD SERVICE AREAS, TRASH AND UTILITY ROOMS.
    B. PAINTED DOORS & FRAMES: SEMI GLOSS
    C. CEILING AND SOFFITS: FLAT

NOTE : REFER TO ARCHITECTURAL ELEVATIONS WHERE FOR LOCATIONS WHERE EPOXY PAINT IS REQUIRED.

16. SUBMIT ALL FINISH SAMPLES TO ARCHITECT FOR APPROVAL, INCLUDING DRAW DOWNS OF ALL PAINT COLORS IN ALL FINISH TYPES AS USED.
17. PAINT ALL ACCESS PANELS TO MATCH ADJ. WALL SURFACE.
18. PLASTER FINISH SHALL BE LEVEL FOR WHERE A PAINTED FINISH SURFACE IS SHOWN.

RESILIENT FLOORING:

19. ALL RESILIENT FLOORING INSTALLATIONS SHALL BE COMPLETED TO THE POINT READY FOR THE FIRST DAY OF USE AND IN AS NEW CONDITION, CLEAN CONSTRUCTION DUST AND DERBY, DAMP MOP AND APPLY A SEALER OR WAXED PER MANUFACTURER'S RECOMMENDATIONS FOR THE PRODUCT. FLOORING CONTRACTOR TO PROVIDE THE PRODUCT SPECIFICATION AND A RECOMMENDED REAPPLICATION TIME FOR THE SEALER OR WAX TO THE FACILITIES MAINTENANCE OFFICE.
20. ALL SHEET GOODS OF RESILIENT FLOORING SHALL BE INSTALLED USING HEAT WELD SEAMS, WELDING RODS SHALL MATCH THE COLOR OF THE FLOORING MATERIAL UNLESS OTHERWISE NOTED ON THE FINISH PLAN OR LEGEND.

CASEWORK AND MILL WORK:

21. ALL CASEWORK AND MILL WORK TO CONFORM TO THE REQUIREMENTS OF THE LATEST EDITION OF W.I.C. FOR CUSTOM GRADE.
22. WOOD SAMPLES PROVIDED TO THE COTNRACTOR ARE FOR COLOR ONLY. CONTRACTOR TO SUBMITT SAMPLES FOR ALL WOOD FINISHES FOR APPROVAL AND VERFIY SHEEN OF FINISH FOR ALL LOCATIONS OF STAINED WOOD FINISH. SUBMITTALS SHALL INCLUDE INFORMATION ON THE SPECIES OF WOOD USED, VENEER MATCHING PROPOSED AND CLEAR FINISH PROPOSED OVER THE STAIN.
23. SHOP DRAWINGS SHALL BE SUBMITTED FOR ALL CASEWORK AND MILL WORK.

FLAME SPREAD:

24. FLAME SPREAD OF FINISH MATERIALS: WALL, FLOOR AND CEILING SHALL NOT EXCEED THE FLAME SPREAD CLASSIFICATIONS IN CBC TABLE 803.13

6 **CARPET:**

25. CONTRACTOR TO SUPPLY 5% OVERAGE FOR "STOCK."

LEGEND: INTERIOR FINISHES

WALL FINISHES:

PT-1
- ***MATERIAL:*** PORCELAIN TILE
- ***MANUF:*** DAL TILE
- ***STYLE:*** FLORENTINE
- ***COLOR:*** #FL07 MARFIL
- ***SIZE:*** 12" x 12"
- ***GROUT:*** CBP Fusion Pro – COLOR #122 LINEN
- ***LAYOUT:*** RUNNING BOND
- ***EDGING:*** USE SHLUTER DILEX-AHK COVE TRIM AT WALL-TO-FLOOR INTERSECTION
- ***NOTE:*** MINIMIZE GROUT JOINT

PT-2
- ***MATERIAL:*** PORCELAIN TILE
- ***MANUF:*** DAL TILE
- ***STYLE:*** SANTINO COLORBODY PORCELAIN
- ***COLOR:*** #SN06 BIANCA
- ***SIZE:*** 12" x 24"
- ***GROUT:*** CBP Fusion Pro - Color #122 LINEN
- ***LAYOUT:*** RUNNING BOND
- ***EDGING:*** USE SHLUTER QUADEC TRIM AT OUTSIDE CORNERS
- ***TRIM:*** 6 4" x 18" BULLNOSE AT TOP OF WAINSCOT; 6" x 24" AT BASE OF WALL
- ***NOTE:*** MINIMIZE GROUT JOINT

WALL FINISHES CONT.:

PL-1
- ***MATERIAL:*** PLASTIC LAMINATE
- ***MANUF:*** WILSONART
- ***COLOR:*** #79298-38 HUNTINGTON MAPLE
- ***FINISH:*** FINE VELVET TEXTURE

P-1
- ***MATERIAL:*** PAINT - WALLS
- ***MANUF:*** SHERWIN WILLIAMS (MATCH FRAZEE COLOR LIFE)
- ***COLOR:*** #2661 STALISBURY
- ***FINISH:*** EGGSHELL

P-2
- ***MATERIAL:*** PAINT - ACCENT WALLS
- ***MANUF:*** SHERWIN WILLIAMS
- ***COLOR:*** #SW 7507 STONE LION
- ***FINISH:*** EGGSHELL

CEILING FINISHES :

C-1
- ***MATERIAL:*** PAINT - CEILINGS
- ***MANUF:*** SHERWIN WILLIAMS
- ***COLOR:*** #SW 7004 SNOWBOUND
- ***FINISH:*** EGGSHELL

FLOOR FINISHES:

CPT-1
- ***MATERIAL:*** CARPET-MODULAR TILE
- ***MANUF:*** MANNINGTON
- ***STYLE:*** TSN
- ***COLOR:*** #15121 FUDGE BROWNIE
- ***SIZE:*** 24" x 24"

6

FLOOR FINISHES CONT.:

LVT-1:
- ***MATERIAL:*** LUXURY VINYL TILE
- ***MANUF:*** MANNINGTON
- ***STYLE:*** NATURE'S PATH
- ***COLOR:*** HERITAGE CHERRY - NATURAL
- ***SIZE:*** 6" x 36"

LVT-2:
- ***MATERIAL:*** LUXURY VINYL TILE
- ***MANUF:*** MANNINGTON
- ***STYLE:*** AMTICO SIGNATURE STONE
- ***COLOR:*** RIVERSTONE TUNDRA AROSRS40
- ***SIZE:*** 18" x 18"

SV-1:
- ***MATERIAL:*** HOMOGENEOUS SHEET VINYL
- ***MANUF:*** MANNINGTON
- ***STYLE:*** BIOSPEC
- ***COLOR:*** #15357 CHERRYWOOD
- ***SEAM'G:*** HEAT WELD

FLOOR FINISHES CONT.:

B-1
- ***MATERIAL:*** 6" RUBBER BASE
- ***MANUF:*** BURKE
- ***COLOR:*** #503 GINGER
- ***SEAM'G:*** HEAT WELD

SURFACE FINISHES:

COUNTER TOPS & BENCHES
- ***MATERIAL:*** SOLID SURFACE
- ***MANUF:*** CORIAN
- ***COLOR:*** WITCH HAZEL
- ***EDGE DETAIL:*** 0'-2" WATERFALL

INTEGRAL SINKS
- ***MATERIAL:*** SOLID SURFACE
- ***MANUF:*** CORIAN
- ***COLOR:*** BONE

SURFACE FINISHES CONT.:

CORNER GUARDS, CHAIR RAILS, & WALL PROTECTION
- ***MATERIAL:*** ACROVYN
- ***MANUF:*** CONSTRUCTION SPECIALTIES, INC.
- ***COLOR:*** 920 ALMOND

PRIVACY CURTAIN
- ***MANUF:*** PALLAS TEXTILES
- ***STYLE:*** LIMN COLLECTION
- ***PATTERN:*** CAMAIEU
- ***COLOR:*** CHAI
- ***NUMBER:*** 29.096.011
- ***NOTE:*** PROVIDE 18" MESH AT TOP OF DRAPE

PANELS AT BARN DOORS
- ***MANUF:*** 3-FORM
- ***STYLE:*** VARIA
- ***PATTERN:*** BANANIA FIBER (DARK)
- ***FINISH:*** STUCCO F06
- ***DIFFUSE:*** WHITE OUT 5%
- ***NUMBER:*** 29.096.011
- ***NOTE:*** LOCATE PATTERN TOWARD SUB-WAITING ROOM SIDE.

6

CONCRETE PADS - PAINTED WITH EPOXY

P-3
- ***PREPARATION:*** SSPC-SP13/NACE or ICRI No. 310.2, CSP 1-3
- ***FIRST COAT:*** SHERWIN WILLIAMS ARMORSEAL 33 EPOXY 8.0 MILS DFT PERIMITER/SEALER
- ***SECOND COAT:*** SHERWIN WILLIAMS ARMORSEAL 1000 HS EPOXY MINIMUM 3.0 MILS, MAXIMUM 5.0 MILS DFT
- ***THIRD COAT:*** SHERWIN WILLIAMS ARMORSEAL 1000 HS EPOXY MINIMUM 3.0 MILS, MAXIMUM 5.0 MILS DFT

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TCMC MRI

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STRUCTURAL:	MIYAMOTO INTERNATIONAL, INC. 6 5550 BALTIMORE DRIVE, SUITE 100 LA MESA, CA 91942 TEL(858)457-3001
MECHANICAL &PLUMBING:	SC ENGINEERS, INC. 17075 VIA DEL CAMPO SAN DIEGO, CALIFORNIA 92127 TEL(858)946-0333
ELECTRICAL:	AG DESIGN, INC. 171 S. ANITA DR. SUITE 111 ORANGE, CALIFRONIA 92868 TEL(714)769-9900 EXT. 201
SHIELDING:	MRI SHIELDING CORPORATION 3554 BUISNESS PARK DR., SUITE B COSTA MESA, CA 92626 TEL(714)545-7700
INTERIORS:	ISLEY DESIGN & PLANNING 1982 PALSERO AVENUE ESCONDIDO, CA 92029 TEL(760)484-0455

LICENSED ARCHITECT
JOSEPH MICHEL SFEIR
No. C 28543
REN 1-31-22
STATE OF CALIFORNIA

1	1	OSHPD COMMENTS	8/3/2020
2	2	DESIGN CHANGES	8/10/2020
3	3	OSHPD COMMENTS	10/2/2020
4	4	OSHPD COMMENTS	11/24/2020
5	5	DESIGN CHANGES	11/24/2020
6	6	ACD 0001 DESIGN CHANGES	4/10/2021
7	7	ACD 0001 DESIGN CHANGES	5/8/2021

REV: DESCRIPTION: DATE:

CONSULTANT

OSHPD APPROVAL STAMP:

OSHPD #: S200813-37-00-ACD0001

SHEET TITLE:

1/4" PARTIAL FLOOR PLAN

PROJECT TITLE:

TCMC MRI

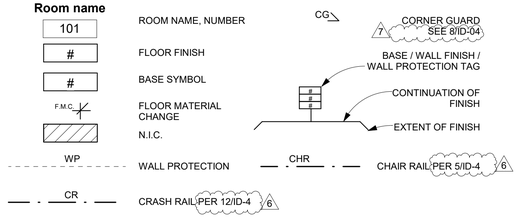
PROJECT #: 01907.01
DRAWN BY: Author
CHECKED BY: Checker
SCALE: PER TITLE
DATE: 3/11/2020

SHEET NUMBER:

ID-02

100% - CONSTRUCTION DOCUMENTS

GRAPHIC LEGEND



FINISH KEYNOTES:

1. EDGE OF FLOORING FINISH. WITH A 56'-9" RADIUS.
2. SOLID SURFACE CORIAN.
3. PRIVACY CURTAIN.
4. DOOR PANELS ON BARN DOOR.
5. STONE THRESHOLD PER DETAIL 1/ID-4
6. FLOOR MATERIAL CHANGE @ CENTER OF DOOR.
7. MATCH EXISTING FINISH; PATCH, PRIME, PAINT.
8. NEW FLOOR FINISH TO BE FLUSH WITH EXISTING FLOOR FINISH.
9. REPLACE FLOOR FINISH TO MATCH EXISTING SURROUNDING FLOOR FINISH.
10. CERAMIC TILE FLOOR, CERAMIC TILE COVED BASE, CERAMIC TILE WALL PROTECTION, PAINTED WALLS, PAINTED CEILING EXISTING FINISHES IN PUBLIC TOILETS TO BE REPLACED TO MATCH EXISTING.
11. CARPET FLOOR, 6" RUBBER BASE. PAINTED WALLS. REPLACE FINISHES TO MATCH EXISTING.
12. PREP WALL WITH (1) SKIM COAT OF GYPSUM COMPOUND. PRIME AND PAINT AND REINSTALL SALVAGED BUMPER RAILS. INSTALL BACKING PER STRUCTURAL DRAWINGS IN NEW WALL INFILL.

GENERAL NOTES:

1. THE GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND MEASUREMENTS IN THE FIELD PRIOR TO STARTING CONSTRUCTION.
2. REFER TO GENERAL NOTES ON SHEET A0-00 FOR INFORMATION NOT INDICATED ON THIS SHEET.

FINISH PLAN GENERAL NOTES:

1. PATCH AND REPAIR FINISHES IN LIKE KIND WHERE AFFECTED BY NEW CONSTRUCTION ON EXISTING BUILDING FINISHES.
2. ALL WINDOW COVERING TO BE CENTERED ON STOREFRONT AND INTALL PER MANUFACTURER'S REQUIREMENTS.
3. REFER TO ENLARGE FLOOR PLANS FOR CORNER GUARDS, CRASH RAIL AND CHAIRD RAIL LOCATONS.
4. REFER TO INTERIOR ELEVATIONS AND SHEET A5-80 FOR ALL CASEWORK FINISHES.
5. CONTRACTOR SHALL SUBMIT SIX (6) COPIES OF MANUFACTURER'S SPECIFICATIONS AND INSTALLATION INSTRUCTIONS FOR ALL FLOORING, CEMENT LEVELING AND PATCHING MATERIALS. PERFORM STRICTLY IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. PROVIDE MAINTENANCE INFORMATION TO THE FACILITIES MAINTENANCE DEPARTMENT.
6. PATCH AND REPAIR EXISTING SUB FLOOR SLAB AS REQUIRED TO PROVIDE A SMOOTH SURFACE FOR NEW FLOORING PER MANUFACTURER'S INSTALLATION REQUIREMENTS. PROVIDE SELF-LEVELING UNDERLAYMENT CONCRETE.
7. FLOORING PREPARATION SHALL BE PERFORMED AS REQUIRED BY THE FLOOR FINISH MANUFACTURER IN A MANNER SUCH THAT THE MANUFACTURER'S PRODUCT WARRANTY WILL REMAIN IN EFFECT. IF FIELD CONDITIONS REQUIRE VARIATIONS FROM MANUFACTURER'S REQUIREMENTS, THE CONTRACTOR SHALL NOTIFY THE FACILITIES MANAGER IN WRITING DTO RECEIVE INSTRUCTIONS ON HOW TO PROCEED.
8. ALL ADHESIVES FOR FINISH MATERIALS SHALL HAVE LOW VOC EMISSIONS. CONTRACTOR SHALL PROVIDE DIRECT VENTILATION TO PREVENT VOC'S OUT GASSING FROM ADHESIVES FROM ENTERING THE BUILDING HVAC SYSTEM AND AFFECTING THE OCCUPANTS OF THE BUILDING.
9. CONTRACTOR TO PROVIDE TRANSITIONS BETWEEN FLOORING MATERIALS PER DETAILS ON SHEET ID-4. ALL TRANSITIONS LOCATED UNDER DOORS, TO BE CENTERED UNDER DOOR.
10. DOOR SWING: CONTRACTOR SHALL INSTALL ALL NEW FLOORING SUCH THAT IT DOES NOT INTERFERE WITH EXISTING DOORS AND SUCH A WAY THAT EXISTING DOORS DO NOT TOUCH THE SURFACE OF NEW FLOORING. ANY PROBLEMATIC DOORS SHALL BE BROUGHT TO THE ATTENTION FO THE FACILITIES CONSTRUCTION REPRESENTATIVE PRIOR TO FLOORING PREPARATION.
11. PERFORM CALCIUM CHLORIDE TEST FOR ALL SLAB SUBFLOORS WHERE SLAB IS NEW, OR ALL EXISTING SLAB ON GRADE LOCATIONS. WHERE EXISTING SLAB IS ABOVE GRADE, CONTRACTOR MAY LIMIT TESTING TO AREAS NEAR A SOURCE OF WATER SUCH AS AROUND PLUMBING LINES, SHOWER STALLS, ROOF DRAINS, ETC. WHERE MOISTURE IN THE SLAB EXCEEDS FINISH MATERIAL'S MANUFACTURER'S RECOMMENDATIONS, REFER TO NOTES ABOVE FOR MANUFACTURER'S WARRANTY REQUIREMENTS.
12. CONTRACTOR TO INCLUDE ALLOWANCE FOR CONCRETE SLAB SEALER TO BE FURNISHED AND APPLIED UNDER ALL FLOOR FINISHES ON SLAB ON GRADE TO MEET FLOOR FINISH MANUFACTURER'S REQUIREMENTS AND WARRANTY.
13. CONTRACTOR SHALL VERIFY LEAD TIMES FOR ALL FINISH MATERIALS AND SHALL BE RESPONSIBLE TO HAVE ALL MATERIALS ON THE JOB SITE ON TIME. NO SUBSTITUTIONS SHALL BE MADE DUE TO LATE ORDERING OF MATERIALS.
14. CONTINUE ALL FLOOR FINISHES UNDER ALL APPLIANCES AND REMOVABLE CABINETS AND EQUIPMENT.

PAINT AND WALL FINISHES:

15. PAINT FINISHES (SHEEN) AS FOLLOWS:
    A. WALLS: EGGSHELL SHEEN
        a. EXCEPTIONS SIM GLOSS SHEEN AT: TOILETS PUBLIC AND LABS, FOOD SERVICE AREAS, TRASH AND UTILITY ROOMS.
    B. PAINTED DOORS & FRAMES: SEMI GLOSS
    C. CEILING AND SOFFITS: FLAT

NOTE : REFER TO ARCHITECTURAL ELEVATIONS WHERE FOR LOCATIONS WHERE EPOXY PAINT IS REQUIRED.

16. SUBMIT ALL FINISH SAMPLES TO ARCHITECT FOR APPROVAL, INCLUDING DRAW DOWNS OF ALL PAINT COLORS IN ALL FINISH TYPES AS USED.
17. PAINT ALL ACCESS PANELS TO MATCH ADJ. WALL SURFACE.
18. PLASTER FINISH SHALL BE LEVEL FOR WHERE A PAINTED FINISH SURFACE IS SHOWN.

RESILIENT FLOORING:

19. ALL RESILIENT FLOORING INSTALLATIONS SHALL BE COMPLETED TO THE POINT READY FOR THE FIRST DAY OF USE AND IN AS NEW CONDITION, CLEAN CONSTRUCTION DUST AND DERBY, DAMP MOP AND APPLY A SEALER OR WAXED PER MANUFACTURER'S RECOMMENDATIONS FOR THE PRODUCT. FLOORING CONTRACTOR TO PROVIDE THE PRODUCT SPECIFICATION AND A RECOMMENDED REAPPLICATION TIME FOR THE SEALER OR WAX TO THE FACILITIES MAINTENANCE OFFICE.
20. ALL SHEET GOODS OF RESILIENT FLOORING SHALL BE INSTALLED USING HEAT WELD SEAMS, WELDING RODS SHALL MATCH THE COLOR OF THE FLOORING MATERIAL UNLESS OTHERWISE NOTED ON THE FINISH PLAN OR LEGEND.

CASEWORK AND MILL WORK:

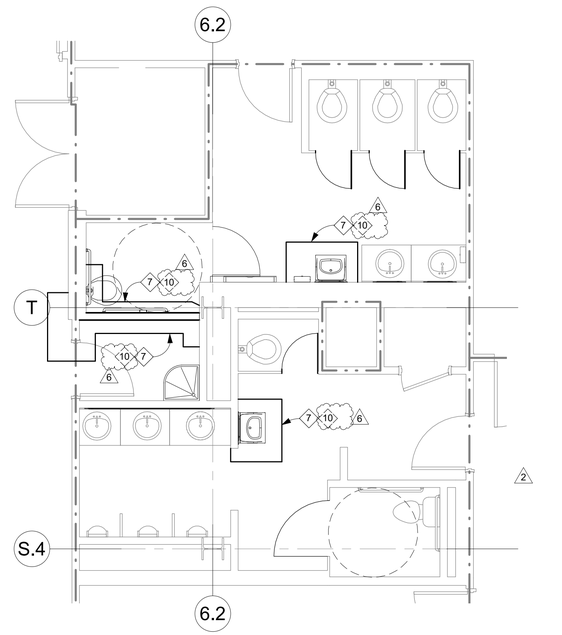
21. ALL CASEWORK AND MILL WORK TO CONFORM TO THE REQUIREMENTS OF THE LATEST EDITION OF W.I.C. FOR CUSTOM GRADE.
22. WOOD SAMPLES PROVIDED TO THE COTNRACTOR ARE FOR COLOR ONLY. CONTRACTOR TO SUBMITT SAMPLES FOR ALL WOOD FINISHES FOR APPROVAL AND VERFIY SHEEN OF FINISH FOR ALL LOCATIONS OF STAINED WOOD FINISH. SUBMITTALS SHALL INCLUDE INFORMATION ON THE SPECIES OF WOOD USED, VENEER MATCHING PROPOSED AND CLEAR FINISH PROPOSED OVER THE STAIN.
23. SHOP DRAWINGS SHALL BE SUBMITTED FOR ALL CASEWORK AND MILL WORK.

FLAME SPREAD:

24. FLAME SPREAD OF FINISH MATERIALS: WALL, FLOOR AND CEILING SHALL NOT EXCEED THE FLAME SPREAD CLASSIFICATIONS IN CBC TABLE 803.13

CARPET:

25. CONTRACTOR TO SUPPLY 5% OVERAGE FOR "STOCK."



1 FIRST FLOOR FINISH PLAN - RESTROOM
1/4" = 1'-0"

NORTH

LEGEND: INTERIOR FINISHES

WALL FINISHES:

PT-1
MATERIAL: PORCELAIN TILE
MANUF: DAL TILE
STYLE: FLORENTINE
COLOR: #FL07 MARFIL
SIZE: 12" x 12"
GROUT: CBP Fusion Pro – COLOR #122 LINEN
LAYOUT: RUNNING BOND
EDGING: USE SHLUTER DILEX-AHK COVE TRIM AT WALL-TO-FLOOR INTERSECTION
NOTE: MINIMIZE GROUT JOINT

PT-2
MATERIAL: PORCELAIN TILE
MANUF: DAL TILE
STYLE: SANTINO COLORBODY PORCELAIN
COLOR: #SN06 BIANCA
SIZE: 12" x 24"
GROUT: CBP Fusion Pro - Color #122 LINEN
LAYOUT: RUNNING BOND
EDGING: USE SHLUTER QUADEC TRIM AT OUTSIDE CORNERS
TRIM: 6 4" x 18" BULLNOSE AT TOP OF WAINSCOT; 6" x 24" AT BASE OF WALL
NOTE: MINIMIZE GROUT JOINT

WALL FINISHES CONT.:

PL-1
MATERIAL: PLASTIC LAMINATE
MANUF: WILSONART
COLOR: #7928-38 HUNTINGTON MAPLE
FINISH: FINE VELVET TEXTURE

P-1
MATERIAL: PAINT - WALLS
MANUF: SHERWIN WILLIAMS (MATCH FRAZEE COLOR LIFE)
COLOR: #2661 STALISBURY
FINISH: EGGSHELL

P-2
MATERIAL: PAINT - ACCENT WALLS
MANUF: SHERWIN WILLIAMS
COLOR: #SW 7507 STONE LION
FINISH: EGGSHELL

CEILING FINISHES :

C-1
MATERIAL: PAINT - CEILINGS
MANUF: SHERWIN WILLIAMS
COLOR: #SW 7004 SNOWBOUND
FINISH: EGGSHELL

FLOOR FINISHES:

CPT-1
MATERIAL: CARPET-MODULAR TILE
MANUF: MANNINGTON
STYLE: TSN
COLOR: #15121 FUDGE BROWNIE
SIZE: 24" x 24"

6

FLOOR FINISHES CONT.:

LVT-1:
MATERIAL: LUXURY VINYL TILE
MANUF: MANNINGTON
STYLE: NATURE'S PATH
COLOR: HERITAGE CHERRY - NATURAL
SIZE: 6" x 36"

LVT-2:
MATERIAL: LUXURY VINYL TILE
MANUF: MANNINGTON
STYLE: AMTICO SIGNATURE STONE
COLOR: RIVERSTONE TUNDRA AROSRS40
SIZE: 18" x 18"

SV-1:
MATERIAL: HOMOGENEOUS SHEET VINYL
MANUF: MANNINGTON
STYLE: BIOSPEC
COLOR: #15357 CHERRYWOOD
SEAM'G: HEAT WELD

FLOOR FINISHES CONT.:

B-1
MATERIAL: 6" RUBBER BASE
MANUF: BURKE
COLOR: #503 GINGER
SEAM'G: HEAT WELD

SURFACE FINISHES:

COUNTER TOPS & BENCHES
MATERIAL: SOLID SURFACE
MANUF: CORIAN
COLOR: WITCH HAZEL
EDGE DETAIL: 0'-2" WATERFALL

INTEGRAL SINKS
MATERIAL: SOLID SURFACE
MANUF: CORIAN
COLOR: BONE

SURFACE FINISHES CONT.:

CORNER GUARDS, CHAIR RAILS, & WALL PROTECTION
MATERIAL: ACROVYN
MANUF: CONSTRUCTION SPECIALTIES, INC.
COLOR: 920 ALMOND

PRIVACY CURTAIN
MANUF: PALLAS TEXTILES
STYLE: LIMN COLLECTION
PATTERN: CAMAIEU
COLOR: CHAI
NUMBER: 29.096.011
NOTE: PROVIDE 18" MESH AT TOP OF DRAPE

PANELS AT BARN DOORS
MANUF: 3-FORM
STYLE: VARIA
PATTERN: BANANA FIBER (DARK)
FINISH: STUCCO F06
DIFFUSE: WHITE OUT 5%
NUMBER: 29.096.011
NOTE: LOCATE PATTERN TOWARD SUB-WAITING ROOM SIDE.

CONCRETE PADS - PAINTED WITH EPOXY
P-3
PREPARATION: SSPC-SP13/NACE or ICRI No. 310.2, CSP 1-3
FIRST COAT: SHERWIN WILLIAMS ARMORSEAL 33 EPOXY 8.0 MILS DFT PERIMITER/SEALER
SECOND COAT: SHERWIN WILLIAMS ARMORSEAL 1000 HS EPOXY MINIMUM 3.0 MILS, MAXIMUM 5.0 MILS DFT
THIRD COAT: SHERWIN WILLIAMS ARMORSEAL 1000 HS EPOXY MINIMUM 3.0 MILS, MAXIMUM 5.0 MILS DFT

6

100% - CONSTRUCTION DOCUMENTS

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No. C 28543
REN. 1-31-23
STATE OF CALIFORNIA

1	1	OSHPD COMMENTS	8/3/2020
2	2	DESIGN CHANGES	8/10/2020
3	3	OSHPD COMMENTS	10/2/2020
4	4	OSHPD COMMENTS	11/24/2020
5	5	DESIGN CHANGES	11/24/2020
6	6	ACD 0001 DESIGN CHANGES	4/10/2021
7	7	ACD 0001 DESIGN CHANGES	5/8/2021

REV: DESCRIPTION: DATE:

CONSULTANT

OSHPD APPROVAL STAMP:

OSHPD #: S200813-37-00-ACD0001

SHEET TITLE:

1/4" PARTIAL FLOOR PLAN

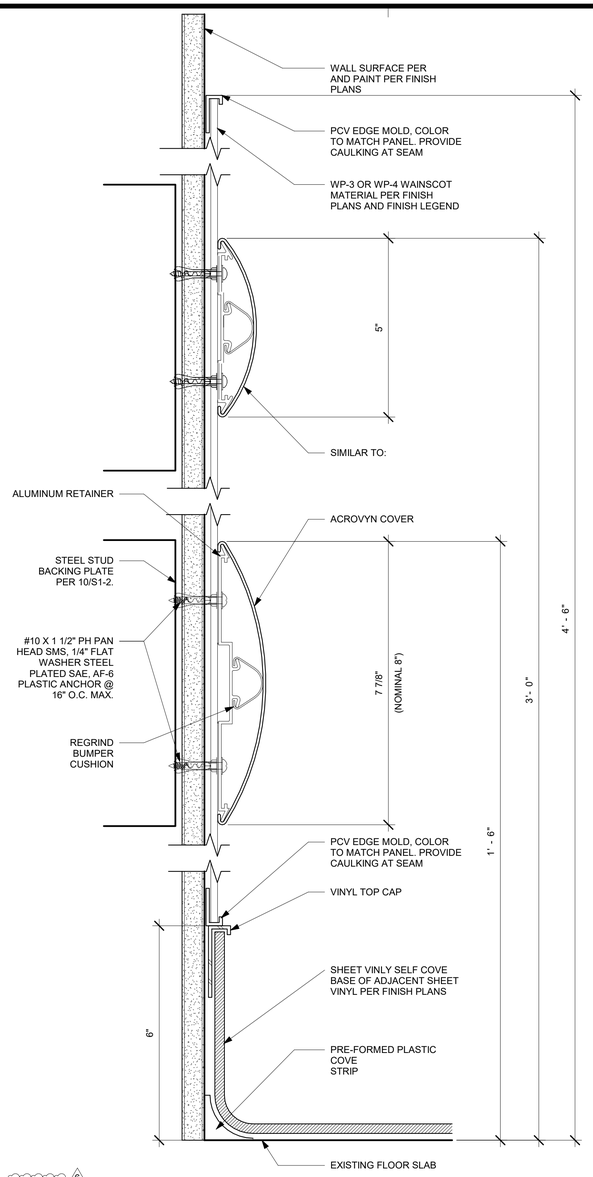
PROJECT TITLE:

TCMC MRI

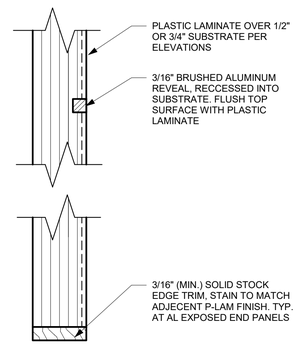
PROJECT #: 01907.01
DRAWN BY: Author
CHECKED BY: Checker
SCALE: PER TITLE
DATE: 3/11/2020

SHEET NUMBER:

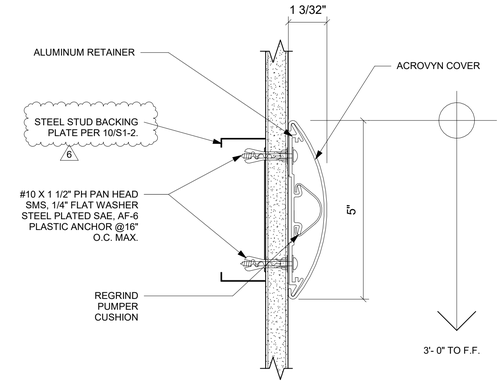
ID-03



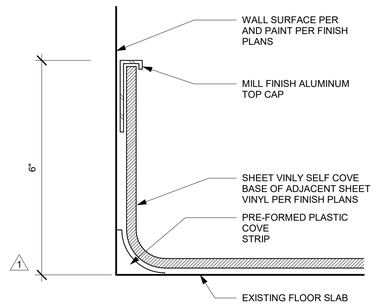
12 (CR) BUMPER, CRASH RAIL @ WAINSCOT
6" = 1'-0"



11 REVEAL/END PANEL DETAIL
12" = 1'-0"



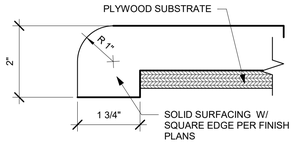
6 (CHR) CHAIR RAIL
6" = 1'-0"



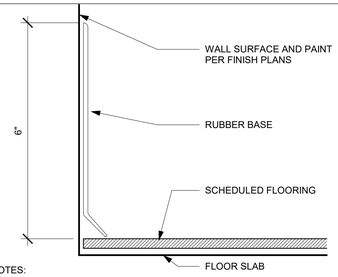
NOTES:

1. STANDARD FINISH BASE DETAIL, APPLY AT ALL LOCATIONS RESILIENT SELF COVE BASE LOCATIONS PER FINIHS PLANS.

4 6" SHEET COVE BASE
6" = 1'-0"



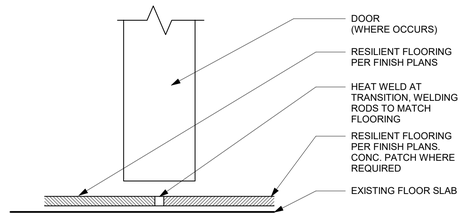
10 BENCH EDGE - WATERFALL
6" = 1'-0"



NOTES:

1. STANDARD FINISH BASE DETAIL, APPLY AT ALL LOCATIONS RUBBER BASE, LOCATIONS PER FINISH PLANS.

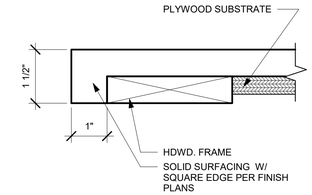
6 6" RUBBER BASE
6" = 1'-0"



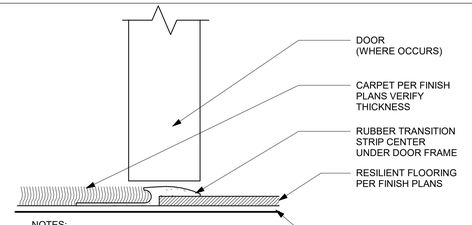
NOTES:

1. FLOORING CONTRACTOR TO FLOAT (THINNER) FLOORING TO PROVIDE NO LEVEL CHANCE BETWEEN FLOORING OF DIFFERENT GAUGE. VERIFY ALL MATERIAL THICKNESS.

3 RESILIENT TO RESILIENT TRANSITION
6" = 1'-0"



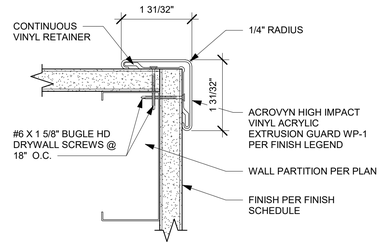
9 COUNTER EDGE - SQUARE
6" = 1'-0"



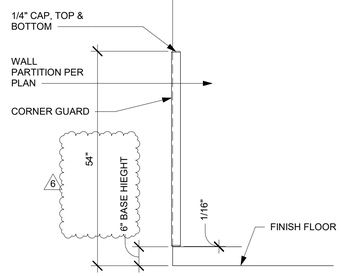
NOTES:

1. STANDARD FINISH TRANSITION DETAIL, APPLY AT ALL LOCATIONS (PER FINISH PLAN) WHERE CARPET TRANSITIONS TO RESILIENT SLAB UNLESS OTHERWISE NOTED REFER TO ID SHEETS PLANS AND DETAILS.
2. COLOR: MATCH BASE COLOR IN ADJECENT ROOM.

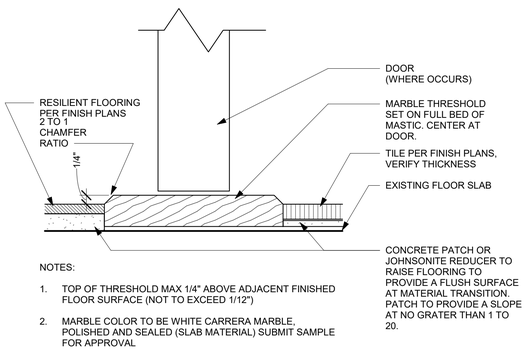
2 CARPET TO RESILIENT TRANSITION
6" = 1'-0"



8 CORNER GUARD
6" = 1'-0"



CORNER GUARD MOUNTING HEIGHT (NTS)



NOTES:

1. TOP OF THRESHOLD MAX 1/4" ABOVE ADJACENT FINISHED FLOOR SURFACE (NOT TO EXCEED 1/12")
2. MARBLE COLOR TO BE WHITE CARRERA MARBLE. POLISHED AND SEALED (SLAB MATERIAL) SUBMIT SAMPLE FOR APPROVAL

1 MARBLE THRESHOLD TRANSITION
6" = 1'-0"

SFEIR ARCHITECTS
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TCMC MRI

Tri-City Medical Center

4002 VISTA WAY
OCEANSIDE CA, 92056

OWNER: TRI-CITY MEDICAL CENTER, 4002 VISTA WAY, OCEANSIDE, CALIFORNIA 92056, TEL(760)940-7709

ARCHITECT: SFEIR ARCHITECTS, 5151 SHOREHAM PL SUITE 265, SAN DIEGO, CALIFORNIA 92122, TEL(619)299-3917

STRUCTURAL: MIYAMOTO INTERNATIONAL, INC., 5550 BALTIMORE DRIVE, SUITE 100, LA MESA, CA 91942, TEL(858)457-3001

MECHANICAL &PLUMBING: SC ENGINEERS, INC., 17075 VIA DEL CAMPO, SAN DIEGO, CALIFRONIA 92127, TEL(858)946-0333

ELECTRICAL: AG DESIGN, INC., 171 S. ANITA DR. SUITE 111, ORANGE, CALIFRONIA 92868, TEL(714)769-9900 EXT. 201

SHIELDING: MRI SHIELDING CORPORATION, 3554 BUISNESS PARK DR., SUITE B, COSTA MESA, CA 92626, TEL(714)545-7700

INTERIORS: ISLEY DESIGN & PLANNING, 1982 PALSERO AVENUE, ESCONDIDO, CA 92029, TEL(760)484-0455

LICENSED ARCHITECT ★ JOSEPH MICHEL SFEIR ★ No. C28543 REN 1-31-23 STATE OF CALIFORNIA

1	1	OSHPD COMMENTS	8/3/2020
2	2	DESIGN CHANGES	8/10/2020
3	3	OSHPD COMMENTS	10/2/2020
4	4	OSHPD COMMENTS	11/24/2020
5	5	DESIGN CHANGES	11/24/2020
6	6	ACD 0001 DESIGN CHANGES	4/10/2021
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REV: DESCRIPTION: DATE:

CONSULTANT

OSHPD APPROVAL STAMP:

OSHPD #: S200813-37-00-ACD0001

SHEET TITLE:

FINISH DETAILS

PROJECT TITLE:

TCMC MRI

PROJECT #: 01907.01
DRAWN BY: Author
CHECKED BY: Checker
SCALE: PER TITLE
DATE: 3/11/2020

SHEET NUMBER:

ID-04

100% - CONSTRUCTION DOCUMENTS

PRODUCT REPORTS

010000-0006 (03/09/17)

1. FOR ALL ITEMS IN THE CONSTRUCTION DOCUMENTS NOT NOTED WITH A SPECIFIC PRODUCT NAME OR MANUFACTURER, THE CONTRACTOR SHALL PROVIDE A PRODUCT SPECIFIED IN THE TABLE BELOW.
2. THE FOLLOWING PRODUCTS SHALL BE INSTALLED PER THE REQUIREMENTS OF THE REFERENCED PRODUCT REPORTS BELOW, UNO.
3. A PRODUCT MAY BE SUBSTITUTED FOR A LIKE PRODUCT PER THE SCHEDULE BELOW IF APPROVED BY THE SEOR AND THE BUILDING OFFICIAL.
4. PRODUCTS SPECIFIED BY TYPE MAY USE ANY FROM THE SCHEDULE BELOW.

TYPE	PRODUCT	ICC#	IAPMO#
EXPANSION ANCHOR TO CONCRETE	HILTI KWIK BOLT TZ	ESR-1917	-
	MKT SZ	ESR-3173	-
	SIMPSON STRONG-BOLT 2	ESR-3037	-
	DEWALT / POWERS POWER STUD+ SD1	ESR-2818	-
	DEWALT / POWERS POWER STUD+ SD2/SD4/SD6	ESR-2502	-
ADHESIVE ANCHOR TO CONCRETE	HILTI HIT-HY 200	ESR-3187	-
	HILTI HIT-RE 500 V3	ESR-3814	-
	SIMPSON SET-XP	ESR-2508	-
	SIMPSON AT-XP	-	0263
	DEWALT / POWERS PE1000+	ESR-2583	-
	DEWALT / POWERS AC100+ GOLD	ESR-2582	-
	DEWALT / POWERS PURE 110+	ESR-3298	-
SCREW ANCHOR TO CONCRETE	HILTI KWIK HUS-EZ	ESR-3027	-
	SIMPSON TITEN HD	ESR-2713	-
	DEWALT / POWERS WEDGE-BOLT+	ESR-2526	-
DROP-IN ANCHOR TO CONCRETE	DEWALT / POWERS SNAKE+	ESR-2272	-
	DEWALT / POWERS MINI UNDERCUT+	ESR-3912	-
UNDERCUT ANCHORS TO CONCRETE	HILTI HDA	ESR-1546	-
	DEWALT / POWERS ATOMIC+	ESR-3067	-
SHOTPIN	HILTI LOW-VELOCITY X-U UNIVERSAL POWDER-DRIVEN	ESR-2269	-
	ITW/RAMSET POWER-DRIVEN	ESR-1799	-
	SIMPSON POWER-ACTUATED	ESR-2138	-
	DEWALT / POWERS TRACK-IT C5	ESR-3275	-
	DEWALT / POWERS POWER-DRIVEN	ESR-2024	-
ADHESIVE ANCHOR TO GROUTED MASONRY	HILTI HIT-HY 70	ESR-2682	-
	SIMPSON SET	-	-
	SIMPSON SET-XP	-	0265
	SIMPSON AT-XP	-	0281
	DEWALT / POWERS AC100+ GOLD	ESR-3200	-
SCREW ANCHOR TO GROUTED MASONRY	HILTI KWIK HUS-EZ	ESR-3056	-
	SIMPSON TITEN HD	ESR-1056	-
	DEWALT / POWERS WEDGE BOLT+	ESR-1678	-
MASONRY SCREW	DEWALT / POWERS TAPPER+	ESR-3196	-
SHEET METAL SCREW [1]	HILTI KWIK-PRO	ESR-2196	-
	HILTI KWIK-FLEX	ESR-3332	-
	SIMPSON X METAL SCREWS	ESR-3006	0326
	PRIMESOURCE DARTS	ESR-1408	-
	ITW BUILDEX TEKS	ESR-1976	-
	ELCO DRIL-FLEX	ESR-3332	-

FOOTNOTE:

1. ANY SHEET METAL SCREW COMPLYING WITH ASTM C1513, SELF-DRILLIING AND TAPPING TYPE, WITH HEAD TYPE APPROPRIATE TO THE APPLICATION, MAY BE USED.

STRUCTURAL OBSERVATIONS

010000-0007 (07/07/14)

1. VISUAL OBSERVATIONS WILL BE PERFORMED AT THE DISCRETION OF THE OWNER, ARCHITECT, EOR, AND AS REQUIRED BY THE BUILDING OFFICIAL IN ACCORDANCE WITH THE BUILDING CODE. VISUAL OBSERVATIONS SHALL NOT BE CONSIDERED AS A SUBSTITUTE FOR THE SPECIAL INSPECTION REQUIREMENTS.
2. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO NOTIFY THE EOR AS TO WHEN EACH MAJOR PHASE OF CONSTRUCTION IS READY FOR OBSERVATION A MINIMUM OF FIVE (5) WORKING DAYS IN ADVANCE.
3. THE FOLLOWING MAJOR PHASES OF CONSTRUCTION REQUIRE A SITE VISIT AND STRUCTURAL OBSERVATION REPORT FROM THE SEOR:
    - EQUIPMENT ANCHORAGE & STRUCTURAL FRAMING, PRIOR TO CLOSING IN
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT NAILING, REINFORCEMENT, WELDS, CONNECTIONS, ETC. ARE VISIBLE FOR OBSERVATION WHEN THE SEOR IS ON SITE AND FOR ANY SCHEDULING DELAYS DUE TO NONCOMPLIANT ITEMS FOUND DURING THE OBSERVATION.

STRUCTURAL TEST AND INSPECTIONS

1. SEE OSHPD TESTING, INSPECTION AND OBSERVATION PROGRAM.

EXISTING CONDITIONS

020000-0000 (05/31/17)

1. SEE "AS BUILT" DRAWINGS FOR EXISTING BUILDING ITEMS NOT SHOWN OR NOTED.
2. FIELD VERIFY ALL CONDITIONS & DIMENSIONS PRIOR TO SHOP DRAWING PRODUCTION AND FABRICATION OF STRUCTURAL ELEMENTS.
3. WHERE ALL OTHER EXISTING CONDITIONS VARY SIGNIFICANTLY FROM THOSE SHOWN ON THESE DRAWINGS, THE STRUCTURAL ENGINEER SHALL BE NOTIFIED PRIOR TO CONTINUED CONSTRUCTION RELATED TO SUBJECT CONDITIONS.
4. SHORE ALL EXISTING CONSTRUCTION AS REQUIRED, INCLUDING WHERE WELDING TO EXISTING STEEL FRAMING. SHORING DESIGN BY OTHERS.
5. ALL EXISTING CONCRETE SURFACES TO BE IN CONTACT WITH NEW CONCRETE SHALL BE CLEANED AND ROUGHENED TO 1/4" MINIMUM AMPLITUDE. USE ICC APPROVED BONDING AGENT ON EXISTING CONCRETE PRIOR TO PLACING NEW CONCRETE.
6. VERIFY LOCATION OF EXISTING REBAR BEFORE FABRICATION USING NON-DESTRUCTIVE TESTING. EXISTING REINFORCING SHALL BE AVOIDED WHERE DRILLING FOR POST-INSTALLED ANCHORS OR CONCRETE DOWELS.
7. THE GENERAL CONTRACTOR SHALL COORDINATE THE WEIGHT AND SPECIFIC LOCATION OF ALL MECHANICAL EQUIPMENT WITH THE STRUCTURAL FRAMING. IF THE EQUIPMENT DEVIATES IN WEIGHT OR LOCATION FROM THOSE INDICATED IN THE DRAWINGS, THE STRUCTURAL ENGINEER'S APPROVAL MUST BE OBTAINED PRIOR TO INSTALLATION OF THE UNITS.
8. ALL EXISTING WOOD FRAMING MEMBERS SUPPORTING NEW MECHANICAL UNITS SHALL BE INSPECTED FOR DAMAGE AND DETERIORATION PRIOR TO INSTALLATION OF THE UNITS. NOTIFY THE STRUCTURAL ENGINEER IF DAMAGE OR DETERIORATION IS DISCOVERED.

FOUNDATIONS AND SLABS ON GRADE

033100-0001 (04/21/17)

1. ALLOWABLE SOIL PRESSURES FOR FOOTINGS:
   DEAD LOAD + LIVE LOAD .... 1500 PSF (CODE MIN)
   DEAD LOAD + LIVE LOAD + LATERAL LOAD .... 2000 PSF (CODE MIN)
2. ALLOWABLE LATERAL SOIL BEARING PRESSURE PER FOOT OF DEPTH ... 100 PSF (CODE MIN)
3. ALLOWABLE LATERAL SLIDING RESISTANCE, COHESION .... 135 PSF (CODE MIN)
4. SPREAD FOOTINGS ARE CENTERED UNDER WALLS AND COLUMNS, UNO.
5. FOOTING ELEVATIONS ARE NOTED ON THE PLANS AND DETAILS AND SHALL BE USED FOR BIDDING.
6. ALL TRENCHES SHALL COMPLY WITH APPLICABLE OSHA REQUIREMENTS. FOOTING BACKFILL AND UTILITY TRENCH BACKFILL WITHIN BUILDING AREA SHALL BE MECHANICALLY COMPACTED.
7. ALL EXCAVATIONS SHALL BE PROPERLY BACKFILLED BUT NOT BEHIND RETAINING WALLS BEFORE CONCRETE OR MASONRY ATTAINS ITS FULL DESIGN STRENGTH.
8. THE DESIGN OF ALL RETAINING WALLS AND SUBTERRANEAN BUILDING WALLS INDICATED ON THESE DRAWINGS IS BASED ON DRAINED SOILS.
9. CONSTRUCTION JOINTS (CJ) AND SAWCUT (SC) JOINTS IN SLABS SHALL OCCUR WHERE LOCATED ON PLANS AND DETAILS. CJ'S SHALL HAVE FORMED POUR STOPS. CONSTRUCTION JOINTS IN WALLS AND FOOTINGS NEED NOT OCCUR AT THE SAME LOCATION, UNO.
10. SEE ARCHITECT'S PLANS FOR LOCATIONS OF SLAB SLOPES, DEPRESSIONS, CURBS, DRAINS, NON-STRUCTURAL PARTITIONS AND OTHER EMBEDDED ITEMS NOT SHOWN ON THE STRUCTURAL PLANS.
11. CONTRACTOR SHALL PROTECT ALL UTILITY LINES, ETC. ENCOUNTERED DURING EXCAVATION AND BACKFILLING. THE ARCHITECT AND ENGINEERS ARE NOT RESPONSIBLE FOR THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES WHETHER OR NOT SHOWN ON THE DRAWINGS. THE LOCATION OF ANY EXISTING UNDERGROUND UTILITIES SHOWN ON THE DRAWINGS ARE APPROXIMATE. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER SHOULD ANY SUCH UNIDENTIFIED CONDITIONS BE DISCOVERED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES WHICH MAY RESULT FROM FAILURE TO EXACTLY LOCATE AND PRESERVE ALL EXISTING UNDERGROUND UTILITIES.
12. THE SLAB ON GRADE IS NOT DESIGNED TO SUPPORT TRAFFIC FROM CRANES OR OTHER HEAVY CONSTRUCTION VEHICLES. CONTRACTOR SHALL REPAIR OR REPLACE DAMAGED CONCRETE SLABS.

HIGH-STRENGTH BOLTS

051200-0000 (04/21/17)

1. SEE STRUCTURAL STEEL NOTES THIS SHEET FOR ADDITIONAL INFORMATION.
2. JOINT ASSEMBLIES USING HIGH-STRENGTH BOLTS SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE "AISC (RCSC) SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS".
3. ALL HIGH-STRENGTH BOLTS SHALL CONFORM TO ASTM A-325 OR ASTM A-490, NUTS SHALL CONFORM TO ASTM A-563 AND WASHERS SHALL CONFORM TO ASTM F-436.
4. PAINT SHALL NOT BE PERMITTED ON CONTACT SURFACES UNLESS NOTED OTHERWISE. CONTACT SURFACES OF BOLTED PARTS SHALL BE DESCALED AND FREE OF DIRT, OIL, BURRS, PITS, AND OTHER DEFECTS WHICH PREVENT SOLID SEATING OF PARTS.
5. ALL HIGH-STRENGTH BOLTS SHALL BE TIGHTENED TO THE AISC SNUG TIGHT CONDITION UNLESS SPECIFIED AS SLIP-CRITICAL.
6. SLIP-CRITICAL BOLTS SHALL HAVE CLASS "A" FAYING SURFACES. SLIP-CRITICAL JOINT ASSEMBLIES SHALL BE FULLY PRE-TENSIONED BY TURN-OF-NUT TIGHTENING, TENSION CONTROL CALIBRATED WRENCH TIGHTENING, TWIST-OFF BOLTS CONFORMING TO ASTM F1852, OR BY DIRECT TENSION INDICATOR TIGHTENING CONFORMING TO ASTM F959.

WELDING

051200-0000 (04/21/17)

1. WELDING PROCEDURES, ELECTRODES AND WELDER QUALIFICATIONS SHALL CONFORM TO THE "CODE FOR WELDING IN BUILDING CONSTRUCTION", AMERICAN WELDING SOCIETY (AWS), D1.1 AND THE AISC "SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS".
2. ALL WELDERS SHALL HAVE EVIDENCE OF PASSING THE AWS STANDARD QUALIFICATION TESTS, AND SHALL BE CERTIFIED FOR THE WORK THEY ARE PERFORMING.
3. PROJECT WELDING SHALL BE PERFORMED ONLY IN ACCORDANCE WITH WELDING PROCEDURE SPECIFICATIONS (WPS) SUBMITTED BY THE CONTRACTOR AND REVIEWED BY THE EOR AND PROJECT WELDING INSPECTOR. THE WPS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE APPLICABLE AWS.
4. WELDING OF STRUCTURAL STEEL SHALL BE PERFORMED PER AWS D1.1 USING E70XX ELECTRODES UNLESS OTHERWISE NOTED.
5. ALL FULL PENETRATION WELDS SHALL BE ULTRA-SONIC TESTED PER AWS D1.1 AND D1.8 REQUIREMENTS AS APPLICABLE.
6. ALL GROOVE OR BUTT WELDS SHALL BE COMPLETE PENETRATION WELDS, UNO. ALL EXPOSED BUTT WELDS SHALL BE GROUND SMOOTH.
7. ALL EXPOSED WELDS ON ARCHITECTURALLY EXPOSED STRUCTURAL STEEL (AESS) SHALL COMPLY WITH AISC CODE OF STANDARD PRACTICE, SECTION 10.
8. FIELD WELDS HAVE BEEN INDICATED WHERE THEY ARE EXPECTED TO OCCUR. THE CONTRACTOR SHALL DETERMINE THE ACTUAL FIELD WELDING NECESSARY TO COMPLETE THE PROJECT AND INCLUDE ALL ASSOCIATED COSTS WITHIN THE BASE BID.

COLD-FORMED STEEL FRAMING

054000-0000 (04/21/17)

1. DESIGN, FABRICATION AND ERECTION OF COLD-FORMED STEEL FRAMING SHALL CONFORM TO THE SPECIFICATIONS AND STANDARD OF THE AMERICAN IRON AND STEEL INSTITUTE (AISI), AS CONTAINED IN THE "SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS", LATEST EDITION, INCLUDING ALL APPLICABLE AMENDMENTS.
2. ALL COLD-FORMED STEEL FRAMING SHALL BE ERECTED PLUMB AND TRUE TO LINE. TEMPORARY BRACING SHALL BE INSTALLED AND LEFT IN PLACE UNTIL OTHER MEANS IS PROVIDED TO ADEQUATELY BRACE THE STRUCTURE.
3. COLD-FORMED STEEL GRADES:
    A. 18 GA (43 MILS) OR THINNER ....ASTM A1003 GRADE 33 (FY = 33 KSI)
    B. 16 GA (54 MILS) AND THICKER ....ASTM A1003 GRADE 50 (FY = 50 KSI)
4. ALL COLD-FORMED STEEL FRAMING SHALL BE BRACED AS REQUIRED BY SECTION D3 OF THE AISI SPECIFICATION.
5. SUBMIT COLD-FORMED STEEL FRAMING SHOP DRAWINGS AND SPECIFICATIONS TO THE EOR FOR REVIEW PRIOR TO FABRICATION.
6. COLD-FORMED STEEL STUDS AND TRACKS ARE TO BE ATTACHED WITH SHEET METAL SCREWS (SMS) WITH SIZES CALLED OUT ON THE DETAILS. PENETRATION OF SCREWS THROUGH JOINED MATERIAL SHALL NOT BE LESS THAN 3 EXPOSED THREADS. SCREWS ARE TO BE INSTALLED AND TIGHTENED IN ACCORDANCE WITH SCREW MANUFACTURER'S RECOMMENDATIONS. SHEET METAL SCREWS SHALL COMPLY WITH ASTM C1513, SELF-DRILLING AND TAPPING TYPE, WITH PANCAKE FRAMER HEAD TYPE FOR #10 SMS AND HEX WASHER HEAD TYPE FOR #12 AND #14 (1/4"Ø) SMS UNLESS NOTED OTHERWISE.
7. COLD-FORMED STUD MEMBERS SHALL BE UNPUNCHED WHERE USED FOR THE FOLLOWING: HEADERS AND SILLS OF OPENINGS WIDER THAN 3'-0", AND BUILT-UP BOX AND BACK-TO-BACK SECTIONS. PUNCH-OUTS SHALL BE LOCATED IN THE CENTER OF THE WEB WITH A MINIMUM SPACING OF 24"OC, HAVE A MAXIMUM WIDTH OF HALF THE MEMBER DEPTH OR 2 1/2", WHICHEVER IS LESS, AND A MAXIMUM LENGTH OF 4 1/2". THE MINIMUM DISTANCE BETWEEN THE END OF THE MEMBER AND THE NEAR EDGE OF THE PUNCH-OUT SHALL BE 12".
8. WELDING OF LIGHT GAGE STEEL SHALL BE IN ACCORDANCE WITH AMERICAN WELDING SOCIETY (AWS) D1.3.

STRUT CHANNEL FRAMING

054300-0000 (11/26/18)

1. STRUT CHANNELS SHALL BE SOLID 1-5/8" x 1-5/8" x 12 GA UNLESS NOTED OTHERWISE.
2. BACK TO BACK CHANNELS SHALL BE FACTORY WELDED
3. STEEL GRADE SHALL CONFORM TO ASTM A1011 SS GRADE 33 OR ASTM S653 GRADE 33
4. ALL FITTINGS SHALL BE FABRICATED FROM STEEL THAT CONFORMS TO ASTM A575, A576, A635, OR A36.
5. ALL BOLTS AND NUTS SHALL BE 1/2" DIA AND TORQUED TO 50 FT-LBS UNLESS NOTED OTHERWISE.
6. FINISH SHALL CONFORM TO ONE OF THE FOLLOWING:

FINISH TYPE	FINISH TYPE	ENVIRONMENT	
		DRY INTERIOR	EXTERIOR, WET, OR CORROSIVE
PREGALVANIZED	A653	X	
HOT DIPPED GALVANIZED	A123 OR A153	X	X
ELECTROPLATED	B633 TYPE III	X	
UNISTRUT PERMA-GREEN III, POWER-STRUT POWER-GREEN OR B-LINE DURA GREEN	N/A	X	X

7. INSTALLATION SHALL BE ACCOMPLISHED BY A FULLY TRAINED MANUFACTURER AUTHORIZED INSTALLER.

△5

ABBREVIATIONS

010000-0002-ALT2 (04/30/18)

AB	ANCHOR BOLT
ABV	ABOVE
ADDL	ADDITIONAL
ADJ	ADJACENT
AFF	ABOVE FINISH FLOOR
ALT	ALTERNATE
ARCH	ARCHITECT(URAL)
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BLW	BELOW
BM	BEAM
BN	BOUNDARY NAILING
B.O.	BOTTOM OF
BOTT	BOTTOM
BRB	BUCKLING-RESTRAINED BRACE
BRG	BEARING
BS	BOTH SIDES
BTWN	BETWEEN
C	CAMBER
C.G.	CENTER OF GRAVITY
CIP	CAST IN PLACE
CJ	CONTROL/CONSTRUCTION JOINT
CJP	COMPLETE JOINT PENETRATION
CL	CENTERLINE
CLG	CEILING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONT	CONTINUOUS
CP	COMPLETE PENETRATION
CSK	COUNTERSINK
CTR(D)	CENTER(ED)
D_B	BAR OR BOLT DIAMETER
DBL	DOUBLE
DEMO	DEMOLITION
DET	DETAIL
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DIR	DIRECTION
DO	DITTO
DWG	DRAWING
(E)	EXISTING
EA	EACH
EF	EACH FACE
EJ	EXPANSION JOINT
EMBED	EMBEDMENT
ELEC	ELECTRICAL
ELEV	ELEVATION OR ELEVATOR
EN	EDGE NAILING
E.O.	EDGE OF
EOR	ENGINEER OF RECORD
EQ	EQUAL
EQUIP	EQUIPMENT
ES	EACH SIDE OR EDGE SCREW
EW	EACH WAY
EXP	EXPANSION
EXT	EXTERIOR
FIN	FINISH
FLG	FLANGE
FLR	FLOOR
FN	FIELD NAILING
FND	FOUNDATION
F.O.	FACE OF
FS	FAR SIDE OR FIELD SCREW
FRMG	FRAMING
FRP	FIBER REINFORCED POLYMER
FT	FOOT OR FEET
FTG	FOOTING
G	GIRDER
GA	GAGE
GALV	GALVANIZED
GB	GRADE BEAM
GC	GENERAL CONTRACTOR
GLB	GLUED-LAMINATED BEAM
HAB	HEADED ANCHOR BOLT
HD	HOLDOWN
HDR	HEADER
HGR	HANGER
HK	HOOK
HORIZ	HORIZONTAL
HP	HIGH POINT
HS	HIGH STRENGTH
HSB	HIGH STRENGTH BOLT
HSS	HOLLOW STRUCTURAL STEEL
HT	HEIGHT
ID	INSIDE DIAMETER
I.F.	INSIDE FACE
IN	INCH
INT	INTERIOR
IOR	INSPECTOR OF RECORD
JST	JOIST
JT	JOINT
KLF	KIPS PER LINEAR FOOT
KSF	KIPS PER SQUARE FOOT
KSI	KIPS PER SQUARE INCH
L	ANGLE
LD	LD DEVELOPMENT LENGTH
LFRS	LATERAL FORCE RESISTING SYSTEM
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LONG	LONGITUDINAL
LP	LOW POINT
LWC	LIGHT WEIGHT CONCRETE
MAX	MAXIMUM
MB	MACHINE BOLT
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MTL	METAL
(N)	NEW
NS	NEAR SIDE OR NON-SHRINK
NTS	NOT TO SCALE
NWC	NORMAL WEIGHT CONCRETE
OC	ON CENTER
OD	OUTSIDE DIAMETER
O.F.	OUTSIDE FACE
OH	OPPOSITE HAND
OPNG	OPENING
PDF	POWDER/POWER DRIVEN FASTENER
PJ	PANEL JOINT
PJP	PARTIAL JOINT PENETRATION
PL	PLATE
PLC(S)	PLACE(S)
PLF	POUNDS PER LINEAR FOOT
PLYWD	PLYWOOD
PREFAB	PREFABRICATED
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PRESSURE TREATED OR POST TENSION
QTY	QUANTITY
RAD, R	RADIUS
REF	REFERENCE
REINF	REINFORCING
REQD	REQUIRED
(S)	"SIMPSON" STRONG TIE CO. OR "USP" W/ EQUIVALENT ICC VALUES
SB	SILL BOLT
SC	SAW CUT OR SLIP CRITICAL
SCHED	SCHEDULE
SEOR	STRUCTURAL ENGINEER OF RECORD
SHTG	SHEATHING
SIM	SIMILAR
SMS	SHEET METAL SCREW
SN	SILL NAIL
SOG	SLAB ON GRADE
SQ	SQUARE
SS	STAINLESS STEEL
STD	STANDARD
STGRD	STAGGERED
STIFF	STIFFENER
STL	STEEL
STRUCT	STRUCTURAL
T&B	TOP & BOTTOM
THK	THICK
THRD	THREADED
T.O.	TOP OF
TRANS	TRANSVERSE
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
VIF	VERIFY IN FIELD
W/	WITH
W/O	WITHOUT
WF, W	WIDE FLANGE
WLD	WELDED
WO	WHERE OCCURS
WP	WORK POINT
WT	WEIGHT
WWF	WELDED WIRE FABRIC

STRUCTURAL STEEL

051200-0000 (04/21/17)

1. DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE SPECIFICATIONS AND STANDARD OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), AS CONTAINED IN THE LATEST EDITION OF "AISC MANUAL OF STEEL CONSTRUCTION".
2. ALL STRUCTURAL STEEL SHALL BE ERECTED PLUMB AND TRUE TO LINE. TEMPORARY BRACING SHALL BE INSTALLED AND SHALL BE LEFT IN PLACE UNTIL OTHER MEANS IS PROVIDED TO ADEQUATELY BRACE THE STRUCTURE.
3. PROVIDE THE FOLLOWING MATERIALS FOR STRUCTURAL STEEL UNO:

SHAPE	MATERIAL/GRADE
WIDE FLANGE SECTIONS & TEES	ASTM A992
PLATES, ANGLES, CHANNELS	ASTM A36
SQUARE OR RECTANGULAR HOLLOW STRUCTURAL SECTIONS (HSS)	ASTM A500, GRADE C (F_y=50 KSI) OR ASTM A1085
PIPES	ASTM A53 TYPE E OR S, GRADE B, (F_y=35 KSI)
MACHINE BOLTS (MB)	ASTM A307
HIGH STRENGTH BOLTS (HSB)	ASTM A325 TYPE N
THREADED RODS FOR ANCHOR BOLTS	ASTM F1554, GRADE 55

   a. EXCEPT AS OTHERWISE NOTED, ALL BOLTS SHALL BE HIGH STRENGTH BOLTS.
   b. WHERE WELDING TO GRADE 55 THREADED ANCHOR RODS IS REQUIRED, USE ASTM F1554 GRADE 55 WITH SUPPLEMENT S1.
4. ALL CONNECTIONS NOT SHOWN SHALL CONFORM TO THE "AISC MANUAL OF STEEL CONSTRUCTION" AND SHALL BE SUBMITTED ON SHOP DRAWINGS FOR REVIEW BY EOR PRIOR TO FABRICATION.
5. BOLTS WITH UPSET THREADS ARE NOT ALLOWED. USE THE APPROPRIATE NUT AND WASHER TYPE FOR THE SPECIFIED BOLT.
6. ALL STEEL FABRICATION SHALL BE PERFORMED BY A LICENSED FABRICATOR.
7. ALL STRUCTURAL STEEL AND MISCELLANEOUS STEEL PERMANENTLY EXPOSED TO THE ELEMENTS SHALL BE HOT DIP GALVANIZED AFTER FABRICATION UNLESS A WEATHER PROOF COATING IS SPECIFIED BY THE ARCHITECT, UNO. STAINLESS AND WEATHERING STEELS, WHERE SPECIFIED, ARE EXEMPT FROM THIS REQUIREMENT. GALVANIZED SURFACES SHALL BE PROTECTED DURING CONSTRUCTION AND SHALL BE REPAIRED AS NECESSARY. ALL ARCHITECTURALLY EXPOSED STRUCTURAL STEEL (AESS) SHALL COMPLY WITH AISC CODE OF STANDARD PRACTICE, SECTION 10.
8. SEE ARCHITECTURAL DRAWINGS FOR NAILER HOLES, WELDED STUDS OR OTHER ITEMS NOT SHOWN IN THESE DRAWINGS.

GENERAL

010000-0000 (03/12/18)

1. REFER TO THE TYPICAL DETAIL SHEETS FOR TYPICAL DETAILS OF CONSTRUCTION. TYPICAL DETAILS APPLY TO ALL CONSTRUCTION UNLESS SPECIFICALLY NOTED OR SHOWN OTHERWISE. WHERE CONDITIONS REQUIRE MODIFICATIONS OF A TYPICAL DETAIL, THE CONTRACTOR SHALL SUBMIT MODIFIED DETAIL FOR APPROVAL BY THE ENGINEER OF RECORD PRIOR TO FABRICATION AND INSTALLATION. DETAILS OF CONSTRUCTION NOT SHOWN SHALL BE OF SAME NATURE AS THOSE SHOWN FOR SIMILAR CONSTRUCTION.
2. CONTRACTOR SHALL CONSIDER THE PROJECT SPECIFICATIONS A PART OF THE CONTRACT DOCUMENTS. WHERE INFORMATION IS CONFLICTING, SPECIFIC DETAILS SHALL GOVERN OVER TYPICAL DETAILS WHICH SHALL GOVERN OVER THESE NOTES WHICH SHALL GOVERN OVER SPECIFICATIONS.
3. ALL DIMENSIONS ON STRUCTURAL DRAWINGS SHALL BE CHECKED AGAINST ARCHITECTURAL DIMENSIONS. DO NOT SCALE DRAWINGS. IF DIMENSIONS ARE OMITTED OR NOT CLEAR, CONTACT THE ARCHITECT (ARCH) OR ENGINEER OF RECORD (EOR). ALL DIMENSIONS RELATED TO EXISTING CONDITIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR. DIMENSIONS ARE TO THE FACE OF STUDS, AND TO CENTERLINE OF COLUMNS UNO.
4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO IMMEDIATELY NOTIFY THE EOR OF ANY CONFLICTS BETWEEN THE STRUCTURAL DRAWINGS AND OTHER DRAWINGS; OR EXISTING CONDITIONS NOT SHOWN OR DIFFERENT FROM THOSE SHOWN ON DRAWINGS PRIOR TO COMMENCEMENT OF WORK. THE CONTRACTOR IS NOT TO ORDER MATERIAL OR CONSTRUCT ANY PORTION OF THE SCOPE THAT IS IN CONFLICT UNTIL THE CONFLICT IS RESOLVED WITH THE AFFECTED PARTIES.
5. THE STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. UNLESS OTHERWISE SHOWN THEY DO NOT INDICATE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE CONSTRUCTION AND ALL ADJACENT PROPERTIES DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE BUT ARE NOT LIMITED TO BRACING, SHORING OF LOADS DUE TO CONSTRUCTION EQUIPMENT, ETC. OBSERVATION VISITS TO THE SITE BY THE ARCHITECT OR EOR SHALL NOT INCLUDE OBSERVATION OF THE ABOVE ITEMS.
6. SUBSTITUTION REQUESTS FOR MATERIALS SPECIFIED ON THE STRUCTURAL DRAWINGS MAY BE CONSIDERED WITH MATERIALS HAVING EQUIVALENT OR GREATER CAPACITY AND PERFORMANCE. CURRENT EVALUATION REPORTS AND PRODUCT INFORMATION SHALL BE PROVIDED TO THE STRUCTURAL ENGINEER DEMONSTRATING THE REQUIRED CAPACITY AND PERFORMANCE OF THE MATERIAL TO BE SUBSTITUTED. WRITTEN APPROVAL FROM THE EOR SHALL BE OBTAINED PRIOR TO THE SUBSTITUTION OF ANY MATERIAL SPECIFIED ON THE STRUCTURAL DOCUMENTS.
7. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH THE PERTINENT SECTIONS OF THE "CONSTRUCTION SAFETY ORDERS" ISSUED BY THE STATE OF CALIFORNIA, LATEST EDITION, AND ALL OSHA REQUIREMENTS AS THEY APPLY TO THIS PROJECT. THE ARCHITECT, EOR, AND THE OWNER DO NOT ACCEPT ANY RESPONSIBILITY FOR THE CONTRACTOR'S FAILURE TO COMPLY WITH THESE REQUIREMENTS.
8. ALL WORK IS NEW (N) UNLESS INDICATED AS EXISTING (E).
9. CONSTRUCTION MATERIALS SHALL BE DISTRIBUTED WHEN PLACED ON THE STRUCTURE SUCH THAT LOADS DO NOT EXCEED DESIGN LIVE LOADS OR RESULT IN AN UNBALANCED CONDITION.
10. REFER TO THE PROJECT SPECIFICATIONS FOR SHOP DRAWING REQUIREMENTS AND SUBMITTALS. SHOP DRAWINGS SHALL BE SUBMITTED TO THE EOR (ALLOW FOR A REVIEW DURATION OF 10 BUSINESS DAYS), AND SHALL CONSIST OF EITHER ELECTRONIC FILES OR ONE SET FOR OUR RECORDS AND ONE REPRODUCIBLE SET. REVIEW OF SHOP DRAWINGS AND SUBMITTALS BY THE EOR IS FOR GENERAL COMPLIANCE WITH THE CONTRACT DOCUMENTS. THE CONTRACTOR WILL REMAIN RESPONSIBLE FOR ALL ERRORS OF DETAILING, FABRICATION, AND FOR CORRECT FITTING OF ALL STRUCTURAL MEMBERS, INCLUDING COORDINATION WITH OTHER TRADES. SHOP DRAWINGS AND SUBMITTALS DO NOT CONSTITUTE CHANGE ORDERS. ANY PROPOSED CHANGES TO THE STRUCTURAL DOCUMENTS MUST BE SUBMITTED IN WRITING AS A REQUEST FOR SUBSTITUTION TO THE ARCHITECT AND EOR FOR APPROVAL. SEE "STRUCTURAL SUBMITTALS" FOR MORE INFORMATION.
11. CORE DRILLS REQUIRED SHALL NOT CUT ANY REINFORCING. THE CONTRACTOR IS TO COORDINATE WORK OF ALL TRADES TO ENSURE COMPLIANCE. ALL CORE DRILLS ARE TO BE PRESENTED TO THE INSPECTOR OF RECORD (IOR) FOR VERIFICATION. THE IOR IS TO DOCUMENT CORES EXAMINED INDICATING AN ABSENCE OF REINFORCING.
12. STRUCTURAL JOINT DIMENSIONS SHOWN ON PLANS (EXPANSION, SEISMIC, SEPARATION, ETC) (WHERE OCCURS) INDICATE THE MINIMUM CLEAR DISTANCE REQUIRED. SEE PLANS, DETAILS, AND ARCHITECTURAL DRAWINGS FOR ADDITIONAL REQUIREMENTS.

STRUCTURAL DESIGN CRITERIA

010000-0001 (03/02/17)

1. CODES:
   ALL NEW WORK SHALL BE IN CONFORMANCE WITH THE CALIFORNIA BUILDING CODE (CBC) 2019 EDITION (TITLE 24, PART 2), INCLUDING ALL AMENDMENTS. ALL STANDARDS USED SHALL BE THE LATEST VERSION APPROVED BY THE CODE ENFORCEMENT AGENCY ON THE DATE OF THE PERMIT ISSUANCE UNLESS SPECIFICALLY NOTED OTHERWISE. THE PURPOSE OF THIS CODE IS TO, IN PART, ESTABLISH THE MINIMUM REQUIREMENTS TO SAFEGUARD THE PUBLIC HEALTH, SAFETY AND GENERAL WELFARE THROUGH STRUCTURAL STRENGTH AND STABILITY. STRUCTURES DESIGNED IN ACCORDANCE WITH THE CODE ARE LIKELY TO HAVE A LOW PROBABILITY OF COLLAPSE BUT MAY SUFFER SERIOUS STRUCTURAL AND NON-STRUCTURAL DAMAGE IF SUBJECTED TO THE DESIGN EARTHQUAKE.
2. GRAVITY DESIGN LOADS:

   LIVE LOADS (REDUCIBLE, UNO):

a. ROOF, UNIFORM	20 PSF
b. FLOOR(S)	
UNIFORM LOAD + PARTITIONS	60 PSF + 20 PSF = 80 PSF
OR, CONCENTRATED IN 2.5 FT x 2.5 FT	2000 LBS

3. WIND DESIGN INFORMATION:

   RISK CATEGORY IV EXPOSURE C
   BASIC WIND SPEED (3 SEC GUST), V_{ult} = 107 MPH, V_{asd} = 83 MPH
   INTERNAL PRESSURE COEFFICIENT GC_{pi} = ± 0.18

4. SEISMIC DESIGN INFORMATION:

   Ip = 1.5 RISK CATEGORY IV DESIGN CAT. D SITE CLASS D
   S_S = 0.938 S_1 = 0.346 S_{DS} = 0.751
   a - PER ASCE 7-16 SECTION 11.4.3, SITE CLASS D HAS BEEN SELECTED BY DEFAULT.
   b - PER ASCE 7-16 SECTION 11.4.8 EXCEPTION 2, GROUND MOTION HAZARD ANALYSIS IS NOT REQUIRED

REFERENCE OF SECTIONS, DETAILS & SYMBOLS

010000-0004 (07/07/14)

DETAIL REFERENCE SHOWN THUS*: | BUILDING SECTION INDICATION SHOWN THUS: | ELEVATION INDICATION SHOWN THUS:

DETAIL NOTED IS SHOWN ON SHEET S5.01, DETAIL 2 | CUT IS SHOWN ON SHEET S3.01, DETAIL 2 | ELEVATION IS SHOWN ON SHEET S5.01, DETAIL 2

* (ADDITIONAL INDICATORS MAY BE USED TO SHOW LOCATION OF DETAIL CUTS)
** (SHEET NUMBER WILL BE REPLACED BY A HYPHEN (-) WHEN THE REFERENCED DETAIL APPEARS ON THE SAME SHEET AS THE CALL-OUT)

DETAIL TITLE SHOWN THUS:

INDICATES THE TITLE, SCALE, AND DETAIL NUMBER ON SHEET

Ø = DIAMETER

⊕ = REFERENCE ELEVATION OR WORK POINT

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TCMC MRI

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MECHANICAL &PLUMBING:
SC ENGINEERS, INC.
17075 VIA DEL CAMPO
SAN DIEGO, CALIFRONIA 92127
TEL(858)946-0333

ELECTRICAL:
AG DESIGN, INC.
171 S. ANITA DR. SUITE 111
ORANGE, CALIFRONIA 92868
TEL(714)769-9900

SHIELDING:
MRI SHIELDING CORPORATION
3554 BUISNESS PARK DR., SUITE B
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S 6407
STRUCTURAL
STATE OF CALIFORNIA

REV:		DESCRIPTION:	DATE:
△1	△1	OSHPD COMMENTS	8/3/2020
△2	△2	DESIGN CHANGES	8/10/2020
△3	△3	OSHPD COMMENTS	10/2/2020
△4	△4	OSHPD COMMENTS	11/24/2020
△5	△5	DESIGN CHANGES	11/24/2020
△6	△6	ACD 0001 DESIGN CHANGES	4/10/2021
△7	△7	ACD 0001 DESIGN CHANGES	5/8/2021

CONSULTANT

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OSHPD APPROVAL STAMP:

OSHPD #: S200813-37-00-ACD0001

SHEET TITLE:

GENERAL NOTES

PROJECT TITLE:
TCMC MRI

PROJECT #:
01907.01
DRAWN BY:
CHECKED BY:
SCALE:
PER TITLE
DATE:
3/11/2020

SHEET NUMBER:
S0-1

100% - CONSTRUCTION DOCUMENTS

POST-INSTALLED ANCHORS

030500-0000 (02/15/17)

UNLESS OTHERWISE NOTED ON THE DRAWINGS, THE FOLLOWING APPLIES TO ALL POST-INSTALLED ANCHORAGE INTO HARDENED CONCRETE OR MASONRY WHICH INCLUDES TYPES SUCH AS EXPANSION, WEDGE, SLEEVE, ADHESIVE/EPOXY, SHOT-PIN, SCREW AND UNDERCUT.

1. INSTALL PER THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPII) EXCEPT AS OTHERWISE STATED IN THE SPECIFIED PRODUCT REPORTS. USE INSTALLATION PROCEDURES FOR CRACKED CONCRETE CONDITIONS. DO NOT USE CORE DRILL BITS FOR ANCHOR HOLES WITHOUT PRIOR EOR APPROVAL. COPIES OF INSTALLATION INSTRUCTIONS SHALL BE MAINTAINED ON SITE.

2. CLEAN OUT ANCHOR HOLES AND SET ANCHORS PER THE PRODUCT'S ICC REPORT FOR THE APPROPRIATE CONDITIONS. INSTALL UNDER SUPERVISION OF THE SPECIAL INSPECTOR WHERE REQUIRED.

3. PROVIDE GALVANIZED CARBON STEEL ANCHORS AT DRY INTERIOR LOCATIONS AND STAINLESS STEEL TYPE 304 OR 316 AT EXTERIOR / DAMP INTERIOR LOCATIONS, REINFORCEMENT BARS TO RECEIVE CONCRETE COVER MAY BE UNCOATED. ANCHORS SHALL BE CLEAN AND FREE OF DEBONDING SUBSTANCES.

4. EMBEDMENT REFERS TO THE FINAL INSTALLED EFFECTIVE DEPTH "Hef" AS DEFINED IN THE PRODUCT REPORT, REQUIRED ANCHOR HOLE DEPTH FOR INSTALLATION MAY BE DEEPER, UNO.

5. MAINTAIN A MINIMUM OF 2 INCHES FROM EXISTING REINFORCEMENT, CONDUIT, POST-TENSIONING (WHERE OCCURS), ETC. PRIOR TO DRILLING, CORING OR SHOOTING PINS INTO EXISTING CONCRETE OR MASONRY. USE NON DESTRUCTIVE TESTING TO LOCATE SUCH ITEMS, FOR INSTALLATION DEEPER THAN 3 INCHES USE GROUND PENETRATING RADAR OR X-RAY METHODS.

6. WHEN THE FULL ANCHOR EMBEDMENT DEPTH, SPACING OR EDGE DISTANCE CANNOT BE OBTAINED, NOTIFY THE EOR AND IOR.

7. FILL ABANDONED HOLES WITH EPOXY AND PATCH SPALLS USING NON-SHRINK GROUT AND REPAIR FINISHES AS REQUIRED. CLEAR DISTANCE BETWEEN NEW HOLES AND ABANDONED HOLES SHALL BE 2" OR TWO ANCHOR DIAMETERS, WHICHEVER IS GREATER, UNLESS OTHERWISE SPECIFIED BY EOR. ANCHORS PENETRATING THROUGH WATERPROOFING OR VAPOR MEMBRANES SHALL BE SEALED OR FLASHED.

8. INSTALL IN DRY CONCRETE OR MASONRY HAVING A MINIMUM AGE OF 21 DAYS.

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9. ADHESIVE/EPOXY ANCHORS ON THIS PROJECT ARE NOT DESIGNED TO SUPPORT OR INTENDED TO RESIST SUSTAINED TENSION LOADS UNLESS NOTED OTHERWISE.

10. TEST LOADS, UNO:

ANCHOR		LOAD (LBS)	TORQUE (FT-LBS)	NOTES
TYPE	SIZE (IN)			
TITEN HD (CONCRETE)	1/4"Ø		24	
TITEN HD (CONCRETE)	3/8"Ø		50	
KB-TZ (CONCRETE)	1/2"Ø	-	40	-
STRONG-BOLT 2 (CONCRETE)	1/2"Ø	-	60	-
SET-XP (CONCRETE)	#5 BAR	6310	-	6" MIN EMBED, EDGE DISTANCE ≥ 9"
	#6 BAR	3550	-	6"' MIN EMBED, 3" MIN EDGE DISTANCE

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STRUCTURAL SUBMITTALS

010000-0008 (07/09/14)

1. REVIEW OF SHOP DRAWINGS AND SUBMITTALS BY THE EOR IS FOR GENERAL COMPLIANCE WITH THE CONTRACT DOCUMENTS.

2. SHOP DRAWINGS SHALL BE SUBMITTED TO THE EOR FOR REVIEW PRIOR TO FABRICATION. THE CONTRACTOR WILL REMAIN RESPONSIBLE FOR ALL ERRORS OF DETAILING, FABRICATION, AND FOR CORRECT FITTING OF ALL STRUCTURAL MEMBERS INCLUDING COORDINATION WITH OTHER TRADES.

   a. SHOP DRAWINGS SHALL BE SUBMITTED TO THE EOR (ALLOW FOR A REVIEW DURATION OF 10 BUSINESS DAYS), AND SHALL CONSIST OF ELECTRONIC FILES.

   b. EOR WILL RETURN THE REPRODUCIBLE SET CLEARLY MARKED WITH COMMENTS. ANY REQUIRED RECORD SET COPIES SHALL BE MADE FROM THIS RETURNED SET.

   c. REPRODUCTION OF STRUCTURAL PLANS & DETAILS FOR SHOP DRAWINGS IS PROHIBITED. SUBCONTRACTOR/FABRICATOR IS TO PROVIDE INDEPENDENTLY CREATED DRAWINGS BASED ON THE STRUCTURAL PLANS AND DETAILS. SHOP DRAWINGS THAT ARE REPRODUCTIONS OF STRUCTURAL DRAWINGS WILL NOT BE REVIEWED.

3. SHOP DRAWINGS AND SUBMITTALS DO NOT CONSTITUTE CHANGE ORDERS. ANY PROPOSED CHANGES TO THE STRUCTURAL DOCUMENTS MUST BE SUBMITTED IN WRITING AS A REQUEST FOR SUBSTITUTION TO THE ARCHITECT AND EOR FOR APPROVAL.

4. EACH CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF A MAIN WIND- OR SEISMIC-FORCE-RESISTING SYSTEM, DESIGNATED SEISMIC SYSTEM OR A WIND- OR SEISMIC-RESISTING COMPONENT LISTED IN THE STATEMENT OF SPECIAL INSPECTIONS SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND THE OWNER PRIOR TO THE COMMENCEMENT OF WORK ON THE SYSTEM OR COMPONENT. THE CONTRACTOR'S STATEMENT OF RESPONSIBILITY SHALL CONTAIN ACKNOWLEDGEMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTION.

5. THE FOLLOWING LIST SUMMARIZES REQUIRED STRUCTURAL SUBMITTALS FOR THIS PROJECT. REFER TO THE SPECIFICATIONS FOR A COMPLETE LIST AND ADDITIONAL REQUIREMENTS.

CONCRETE REINFORCEMENT

REQD: MANUFACTURER'S PRODUCT DATA, SPECIFICATIONS AND INSTALLATION PROCEDURES FOR PROPRIETARY MATERIALS AND REINFORCEMENT
REQD: STEEL PRODUCER'S CERTIFICATES OF MILL ANALYSIS, TENSILE AND BEND TESTS
REQD: SHOP DRAWINGS FOR FABRICATION, BENDING AND PLACEMENT

CAST-IN-PLACE CONCRETE

REQD: DESIGN MIX FOR EACH CONCRETE MIX.
SPECIAL INSPECTOR SHALL REVIEW MIX DESIGNS.
SEOR SHALL REVIEW AND ACCEPT MIX DESIGNS. 3
REQD: MATERIAL TEST REPORTS
REQD: MATERIAL CERTIFICATES FOR CEMENT, AGGREGATES AND ADMIXTURES
NOT REQD: MANUFACTURER'S PRODUCT DATA FOR WATERSTOPS, BONDING AGENTS, VAPOR RETARDERS, JOINT FILLER, CURING MATERIALS AND FLOOR TREATMENTS
REQD: SHOP DRAWINGS FOR PROPOSED LOCATIONS OF ADDITIONAL CONSTRUCTION OR CONTROL JOINTS NOT SHOWN ON THE STRUCTURAL PLANS
REQD: MINUTES FROM PREINSTALLATION CONFERENCE

STRUCTURAL STEEL

REQD: MANUFACTURER'S MILL CERTIFICATES
REQD: MILL TEST REPORTS
REQD: SHOP DRAWINGS FOR FABRICATION AND ASSEMBLY OF MEMBERS
REQD: ERECTION PLAN SEQUENCE AND PROCEDURES
REQD: WELDING PROCEDURE SPECIFICATIONS (WPS)
REQD: CERTIFICATES FOR ALL WELDERS VERIFYING CURRENT AWS QUALIFICATIONS
REQD: TEST REPORTS FOR SHOP AND FIELD WELDED AND BOLTED CONNECTIONS

STEEL DECK

REQD: SHOP DRAWINGS INDICATING TYPE, LAYOUT, DETAILS, AND OPENINGS LARGER THAN 1'-0"

STRUCTURAL CONCRETE

033100-0000 (04/18/18)

1. CONCRETE SHALL BE MIXED, PLACED AND CURED IN ACCORDANCE WITH ACI 318 AND ACI 301 LATEST EDITION, AND PROJECT SPECIFICATIONS.

2. CONCRETE SHALL NOT BE DROPPED THROUGH REINFORCING STEEL (AS IN WALLS) SO AS TO CAUSE SEGREGATION OF AGGREGATES. IN SUCH CASES, HOPPERS AND VERTICAL CHUTES OR TRUNKS SHALL BE USED. CHUTES OR TRUNKS SHALL BE OF VARIABLE LENGTHS SO THAT FREE UNCONFINED FALL OF CONCRETE SHALL NOT EXCEED SIX FEET. A SUFFICIENT NUMBER OF CHUTES OR TRUNKS SHALL BE USED TO ENSURE THE CONCRETE IS KEPT LEVEL AT ALL TIMES.

3. CONSTRUCTION JOINTS SHALL BE CLEANED AND ROUGHENED BY REMOVING THE ENTIRE SURFACE TO EXPOSE CLEAN AGGREGATE SOLIDLY EMBEDDED IN THE MORTAR MATRIX. SEE PLANS AND DETAILS FOR LOCATION AND TYPE OF CONSTRUCTION JOINT. LOCATIONS OF ADDITIONAL CONSTRUCTION JOINTS NOT SHOWN ON THESE PLANS SHALL BE SUBMITTED FOR APPROVAL TO THE EOR PRIOR TO PLACING ANY CONCRETE.

4. STRUCTURAL CONCRETE SHALL MEET THE FOLLOWING DESIGN CRITERIA:

LOCATION	MIN 28-DAY COMP STRENGTH	CONC TYPE	MAX AGGREGATE SIZE	MAX W/C RATIO
MRI MAT FOUNDATIONS	4000 PSI	NWC	1"	0.50
INTERIOR SLAB ON GRADE NOT EXPOSED TO WEATHER OR RECEIVING FLOORING FINISH	4000 PSI	NWC	1"	0.50
CURB PAD AND FILL OVER METAL DECK	3000 PSI	LWC	1"	0.50
ALL OTHER STRUCTURAL CONCRETE NOT NOTED ABOVE	3000 PSI	NWC	1"	0.50

   a. MAXIMUM AIR DRY UNIT WEIGHT OF LIGHTWEIGHT CONCRETE SHALL NOT EXCEED 110 PCF, UNLESS APPROVED BY EOR.
   b. WHEN THE USE OF PLASTICIZER (ASTM C1017, TYPE I OR II) OR WATER REDUCER (ASTM C494, TYPE F OR G) IS USED, MAXIMUM SLUMP SHALL BE 4" PRIOR TO ADMIXTURE AND 8" INCLUDING ADMIXTURE AT THE POINT OF DELIVERY. IN THE ABSENCE OF PLASTICIZER AND WATER REDUCER, SLUMP AT THE POINT OF DELIVERY SHALL NOT EXCEED 4".
   c. W/C RATIO INDICATES WATER TO CEMENTITIOUS MATERIALS RATIO.
   d. FOR INTERIOR SLABS ON GRADE AND ALL OTHER SLABS RECEIVING ADHERED FLOORING FINISHES (I.E., GLUED, ETC.), THE MAXIMUM W/C RATIO SHALL NOT EXCEED 0.46. CURING COMPOUNDS USED ON CONCRETE THAT IS TO RECEIVE FINISHES SHALL BE COMPATIBLE WITH TILE AND ADHESIVES OR GROUTS IN ACCORDANCE WITH MANUFACTURER'S DATA AND BE APPROVED BEFORE USE.
   e. SLABS ON GRADE, TOPPING SLABS, AND ELEVATED CONCRETE FLOORS SHALL HAVE A MAXIMUM SHRINKAGE RATE OF 0.04% AT 28 DAYS PER ASTM C 157 (CURING TEST SPECIMENS TO BE CONSISTENT WITH FIELD CONDITIONS), OR USING EMBEDDED VIBRATING WIRE STRAIN GAUGES. RESULTS OF TESTING SHALL BE SUBMITTED TO ENGINEER.
   f. SEE ACI 318 FOR ADDITIONAL REQUIREMENTS REGARDING MAXIMUM AGGREGATE SIZE.
   g. AGGREGATE GRADATION OF 3/8" MAXIMUM (PEA GRAVEL) SHALL NOT BE USED WHERE FINISHED CONCRETE SURFACE IS EXPOSED TO VIEW.

5. CONCRETE MIX DESIGN AND TESTING SHALL MEET THE REQUIREMENTS OF THE BUILDING CODE, AND SPECIFICATIONS. ALL CONCRETE MIXES SHALL BE DESIGNED PER ACI 318 SECTION 5.2 BY A RECOGNIZED TESTING LAB STAMPED AND SIGNED BY A LICENSED CALIFORNIA CIVIL ENGINEER AND SUBMITTED TO THE EOR FOR REVIEW PRIOR TO CONCRETE PLACEMENT. STRUCTURAL CONCRETE MIXES SHALL CONSIST OF 5 SACK MINIMUM UNO.

6. AGGREGATES IN NORMAL WEIGHT CONCRETE SHALL CONFORM TO ASTM C-33 (HARDROCK). AGGREGATES IN LIGHT WEIGHT CONCRETE SHALL CONFORM TO ASTM C-330.

7. COMPRESSIVE STRENGTH TEST REPORTS SHALL BE SUBMITTED TO THE BUILDING DEPARTMENT AND THE EOR.

8. PORTLAND CEMENT SHALL BE TYPE II AND SHALL CONFORM TO ASTM C150, LOW ALKALI. MILL TESTS WITH CERTIFICATES OF COMPLIANCE SHALL BE SUBMITTED.

9. FLY ASH OR OTHER POZZOLANS CONFORMING TO ASTM C618 CLASS F MAY BE USED AS A PARTIAL SUBSTITUTION FOR PORTLAND CEMENT UP TO A MAXIMUM OF 25% TOTAL CEMENTITIOUS MATERIALS BY WEIGHT IF THE MIX DESIGN IS PROPORTIONED BY FIELD EXPERIENCE OR TRIAL MIXTURES.

10. CONCRETE MIXING OPERATIONS, ETC. SHALL CONFORM TO ASTM C94.

11. LEAN CONCRETE, WHERE SPECIFICALLY INDICATED, SHALL CONTAIN 2 SACKS OF CEMENT PER CUBIC YARD OF CONCRETE.

12. DRYPACK OR NONSHRINK GROUT SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 5000 PSI, AND CONSIST OF MASTERFLOW 713, EUCON NS GROUT, SIKA GROUT 212, OR APPROVED EQUAL. FOR THICK GROUT LAYERS FOLLOW MANUFACTURER'S GUIDELINES TO ATTAIN THE REQUIRED STRENGTH, WHICH MAY INCLUDE THE ADDITION OF PEA GRAVEL. FOR BASE PLATES LARGER THAN 6 SQUARE FEET, USE HI-FLOW GROUT OR MASTERFLOW 928.

13. DO NOT USE ANY CONCRETE OR GROUT CONTAINING CHLORIDES. WATER USED IN MIX SHALL BE CLEAN AND POTABLE.

14. PRIOR TO ERECTING ANY ELEMENTS THAT LOAD THE FOUNDATION, CONCRETE MUST REACH AN UNCONFINED COMPRESSION STRENGTH OF 2000 PSI MINIMUM AS DETERMINED BY TESTING OR PREVIOUSLY DOCUMENTED DATA FOR THE MIX DESIGN USED UNDER SIMILAR CONDITIONS, AND MUST BE ALLOWED TO CURE FOR A MINIMUM OF 3 DAYS.

7

15. MAINTAIN CONCRETE ABOVE 50 DEGREES FAHRENHEIT UNLESS OTHERWISE ACCEPTED BY EOR.

16. SEE ARCHITECTURAL DRAWINGS FOR WALL OPENINGS, WALL OFFSETS, CHAMFERS, KERFS, DRIPS AND FOR EXTENT OF DEPRESSIONS, RAMPS, ETC.

17. PROVIDE SLEEVES FOR ALL PIPES THROUGH CONCRETE WALLS AND FOOTINGS WHERE SHOWN ON THESE DRAWINGS. CORING IS NOT PERMITTED WITHOUT PRIOR APPROVAL BY THE EOR.

18. EXPOSED CORNERS OF SLABS, BEAMS, WALLS, COLUMNS, ETC. SHALL BE FORMED WITH 3/4" CHAMFER OR 1/2" RADIUS TOOLED EDGE, UNO.

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REV:	DESCRIPTION:	DATE:
1	OSHPD COMMENTS	8/3/2020
2	DESIGN CHANGES	8/10/2020
3	OSHPD COMMENTS	10/2/2020
4	OSHPD COMMENTS	11/24/2020
5	DESIGN CHANGES	11/24/2020
6	ACD 0001 DESIGN CHANGES	4/10/2021
7	ACD 0001 DESIGN CHANGES	5/8/2021

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OSHPD APPROVAL STAMP:

OSHPD #: S200813-37-00-ACD0001

SHEET TITLE:

GENERAL NOTES

PROJECT TITLE:

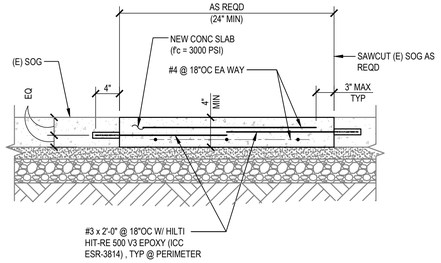
TCMC MRI

PROJECT #: 01907.01
DRAWN BY:
CHECKED BY:
SCALE: PER TITLE
DATE: 3/11/2020

SHEET NUMBER:

S0-2

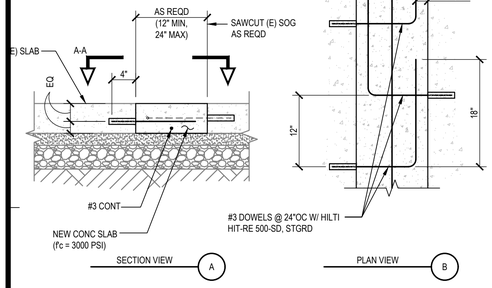
100% - CONSTRUCTION DOCUMENTS



NOTES:
1. SEE 11/- FOR WIDTH LESS THAN 24".

10 TYPICAL INTERIOR CUT IN (E) SLAB (24" MIN)

NTS

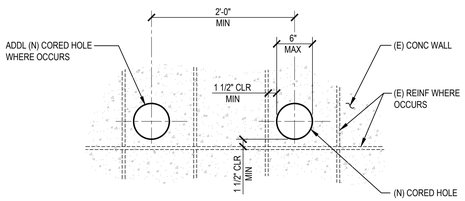


NOTES:
1. REFER TO MECHANICAL, ELECTRICAL, & PLUMBING (MEP) DRAWINGS FOR LOCATIONS OF ALL PIPES AND CONDUITS.

11 TYPICAL INTERIOR SAW CUT IN (E) SLAB (12" MIN)

2 1"=1'-0"

030000-0107 (12) (08/18/14)



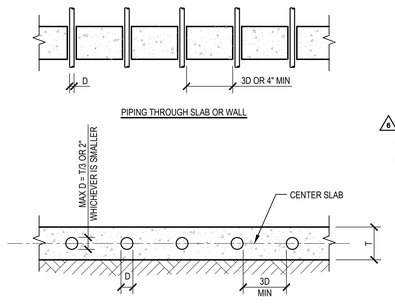
ELEVATION

NOTES:
1. ALL CORED HOLE LOCATIONS SHALL BE REVIEWED AND APPROVED BY THE STRUCTURAL ENGINEER PRIOR TO CORING.
2. PROVIDE NON-DESTRUCTIVE TESTING TO DETERMINE THE LOCATION OF (E) REINFORCING BARS PRIOR TO THE CORING OF (N) HOLES. LOCATE THE (N) CORED HOLES IN SUCH A MANNER TO AVOID CONTACT WITH (E) REINFORCING.

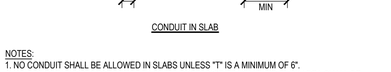
7 NEW CORED HOLES IN EXISTING CONCRETE

NTS

030000-0101 (12) (08/18/14)



PIPING THROUGH SLAB OR WALL



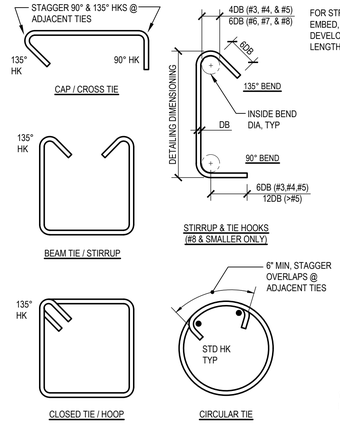
CONDUIT IN SLAB

NOTES:
1. NO CONDUIT SHALL BE ALLOWED IN SLABS UNLESS "T" IS A MINIMUM OF 6".
2. WHERE CLEAR DISTANCE BETWEEN SLEEVES CANNOT BE ACHIEVED, THIS AREA SHALL BE TREATED AS A SLAB OPENING PER TYPICAL OPENING IN SLAB ON GRADE DETAIL.
3. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATION.

8 PIPES & CONDUITS IN OR THROUGH SLAB & WALL

NTS

033100.00-0100 (12) (08/06/14)



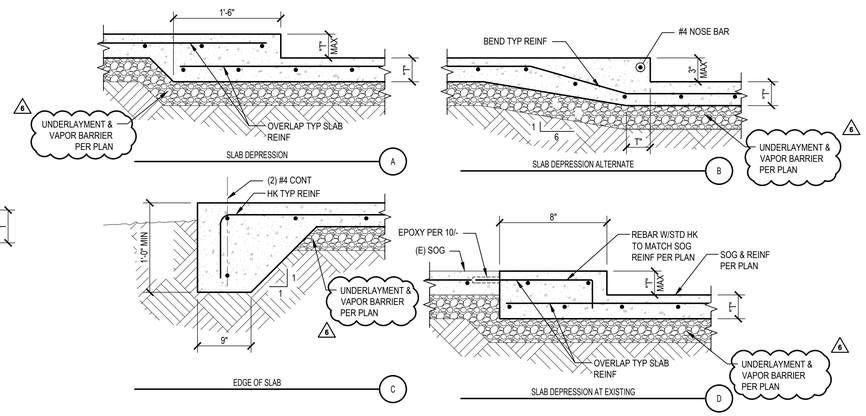
HOOKS, LAPS & DEVELOPMENT LENGTHS						
	BAR SIZE	STD HOOK DEVELOPMENT LENGTH LDH (IN)	CLASS B LAP SPLICE LS (IN)		DEVELOPMENT LENGTH LD (IN)	
			BOTT	TOP	BOTT	TOP
3000 PSI NWC	#3 #4	6 8	22 29	28 37	17 22	22 29
	#5 #6	10 12	36 43	47 56	28 33	36 43
	#7 #8	14 16	63 72	81 93	48 55	63 72
	#9 #10 #11	18 20 22	81 91 101	105 118 131	62 70 78	81 91 101
4000 PSI NWC	#3 #4	6 7	19 25	24 32	15 19	19 25
	#5 #6	9 10	31 37	40 48	24 29	31 37
	#7 #8	12 14	54 62	70 80	42 48	54 62
	#9 #10 #11	15 17 19	70 79 87	91 102 113	54 61 67	70 79 87
5000 PSI NWC	#3 #4	6 6	17 22	22 29	13 17	17 22
	#5 #6	8 9	28 33	36 43	22 26	28 33
	#7 #8	11 12	49 55	63 72	37 43	49 55
	#9 #10 #11	14 15 17	63 70 78	81 91 101	48 54 60	63 70 78

NOTES:
1. SEE BUILDING CODE AND ACI LATEST VERSION FOR ALL REQUIREMENTS NOT NOTED.
2. FOR LIGHTWEIGHT CONCRETE MULTIPLY LDH, LS AND LD VALUES SHOWN BY 1.33.
3. "TOP" BARS ARE HORIZONTAL BARS WITH MORE THAN 12" OF FRESH CONCRETE CAST BELOW BARS. ALL OTHER BARS ARE "BOTT" BARS.
4. WHERE REQUIRED LS CANNOT BE OBTAINED WITH STRAIGHT BARS, EXTEND REINFORCING AS FAR AS POSSIBLE (LDH MINIMUM) AND PROVIDE STANDARD HOOK. WHERE LDH CANNOT BE OBTAINED, CONSULT SEOR.
5. VALUES SHOWN ARE FOR GRADE 60 (FY=60 KSI) REINFORCEMENT.
6. SPLICE LENGTHS SHOWN ARE FOR CLEAR SPACING NOT LESS THAN 2DB, CONCRETE COVER NOT LESS THAN DB.
7. FOR EPOXY-COATED AND/OR BUNDLED REINFORCEMENT CONSULT SEOR.
8. WHERE BARS OF DIFFERENT SIZES ARE LAP SPLICED IN TENSION, SPLICE LENGTH SHALL BE THE LARGER OF: LD OF THE LARGER BAR AND LS OF THE SMALLER BAR.

4 REINFORCEMENT DETAILS & DEVELOPMENT LENGTHS

NTS

032000-0100 (1) (08/23/16)



5 SLAB ON GRADE DETAILS

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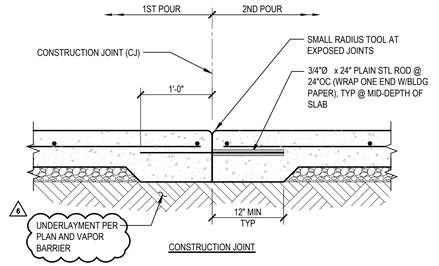

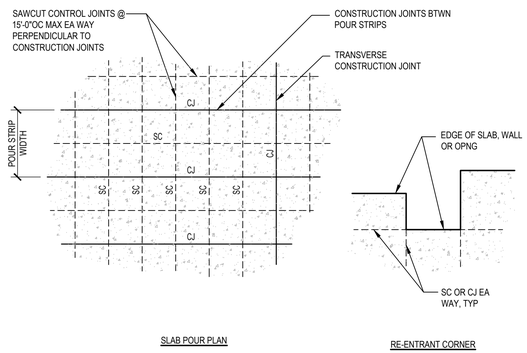

12 SLAB ON GRADE CONTROL JOINTS

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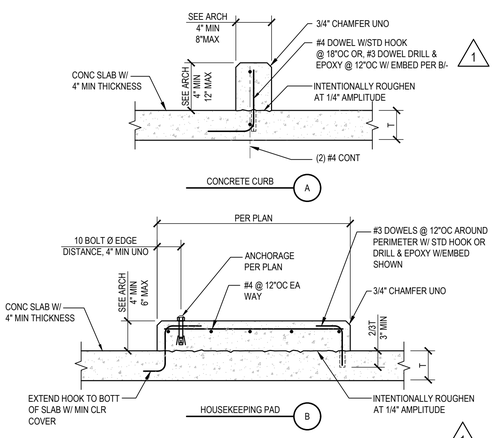
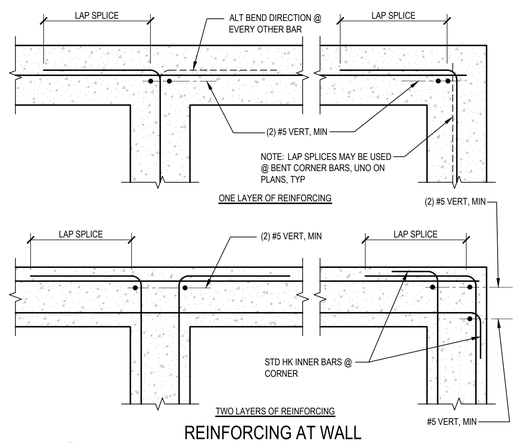


6 TYPICAL CONCRETE PAD & CURB

NTS

033053.01-0100 (12) (12/05/18)



3 REINFORCING AT WALL & FOOTING INTERSECTIONS

NTS

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REGISTERED PROFESSIONAL ENGINEER — TIM HAN K. BUI — No. S-6507 — STRUCTURAL — STATE OF CALIFORNIA

1	1	OSHPD COMMENTS	8/3/2020
2	2	DESIGN CHANGES	8/10/2020
3	3	OSHPD COMMENTS	10/2/2020
4	4	OSHPD COMMENTS	11/24/2020
5	5	DESIGN CHANGES	1/15/2020
6	6	ACD 2001 DESIGN CHANGES	4/12/2021
7	7	ACD 2001 DESIGN CHANGES	5/8/2021

REV:	DESCRIPTION:	DATE:

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OSHPD APPROVAL STAMP:

OSHPD #: S200813-37-00-ACD0001

SHEET TITLE:

TYPICAL CONCRETE DETAILS

PROJECT TITLE:

TCMC MRI

PROJECT #: 01907.01
DRAWN BY:
CHECKED BY:
SCALE: PER TITLE
DATE: 3/11/2020

SHEET NUMBER:

S1-1

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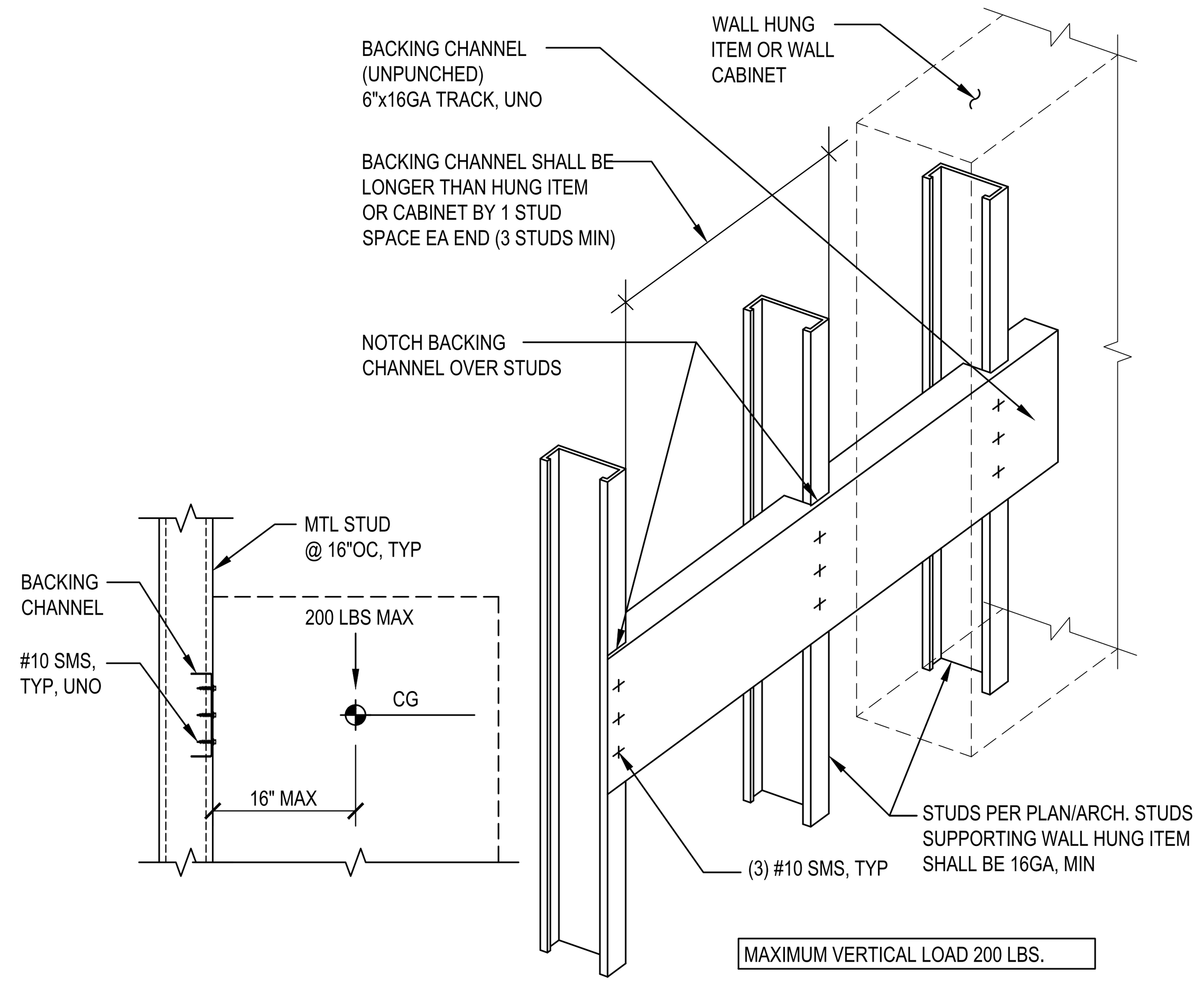
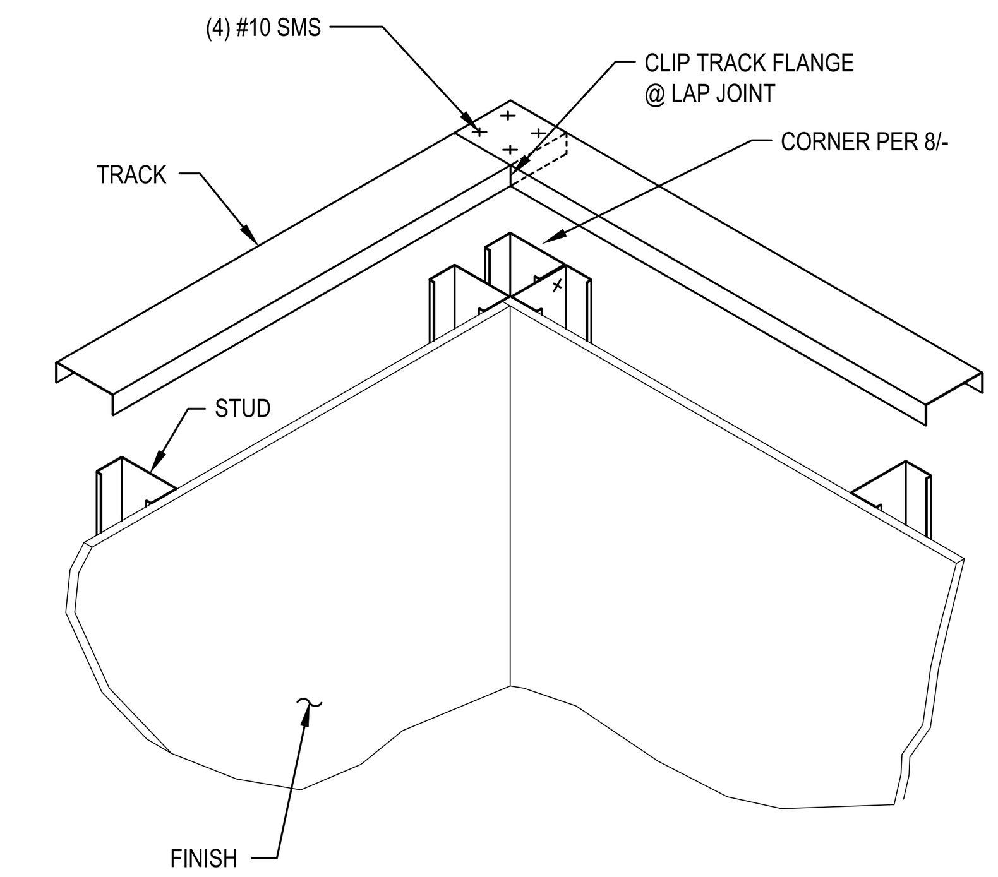


10 BACKING CHANNEL
N.T.S.



7 CORNER TRACK LAP CONNECTION
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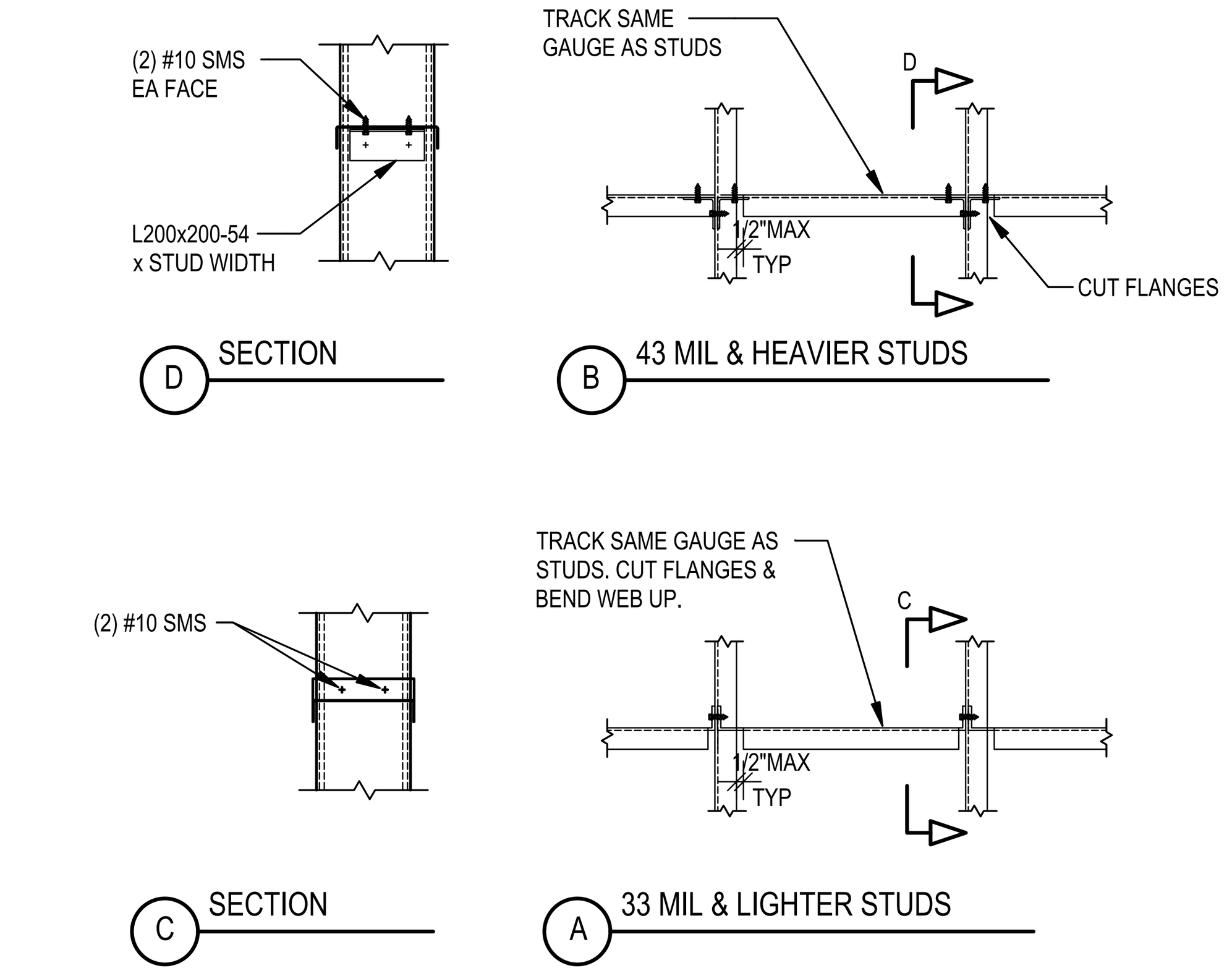
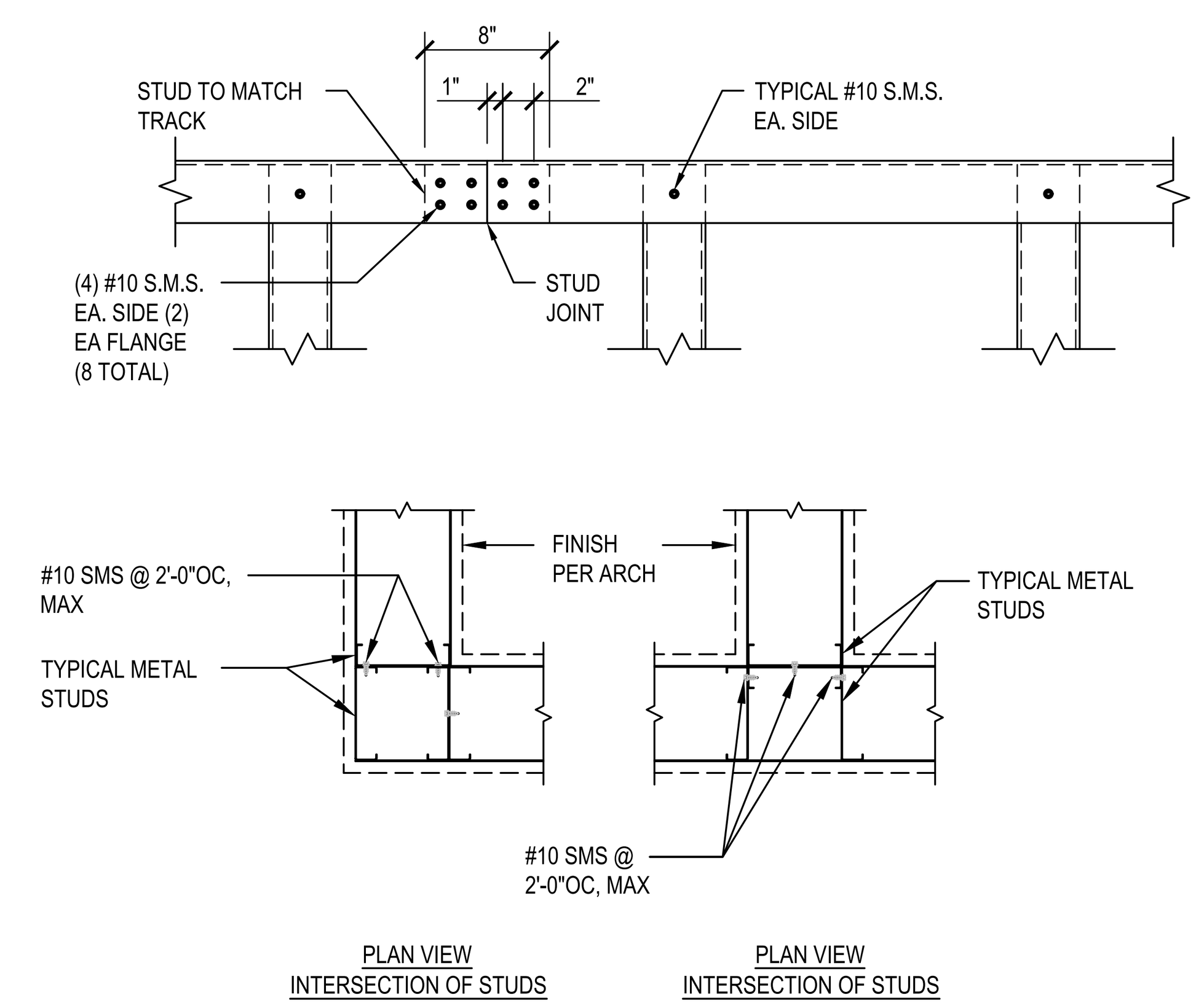
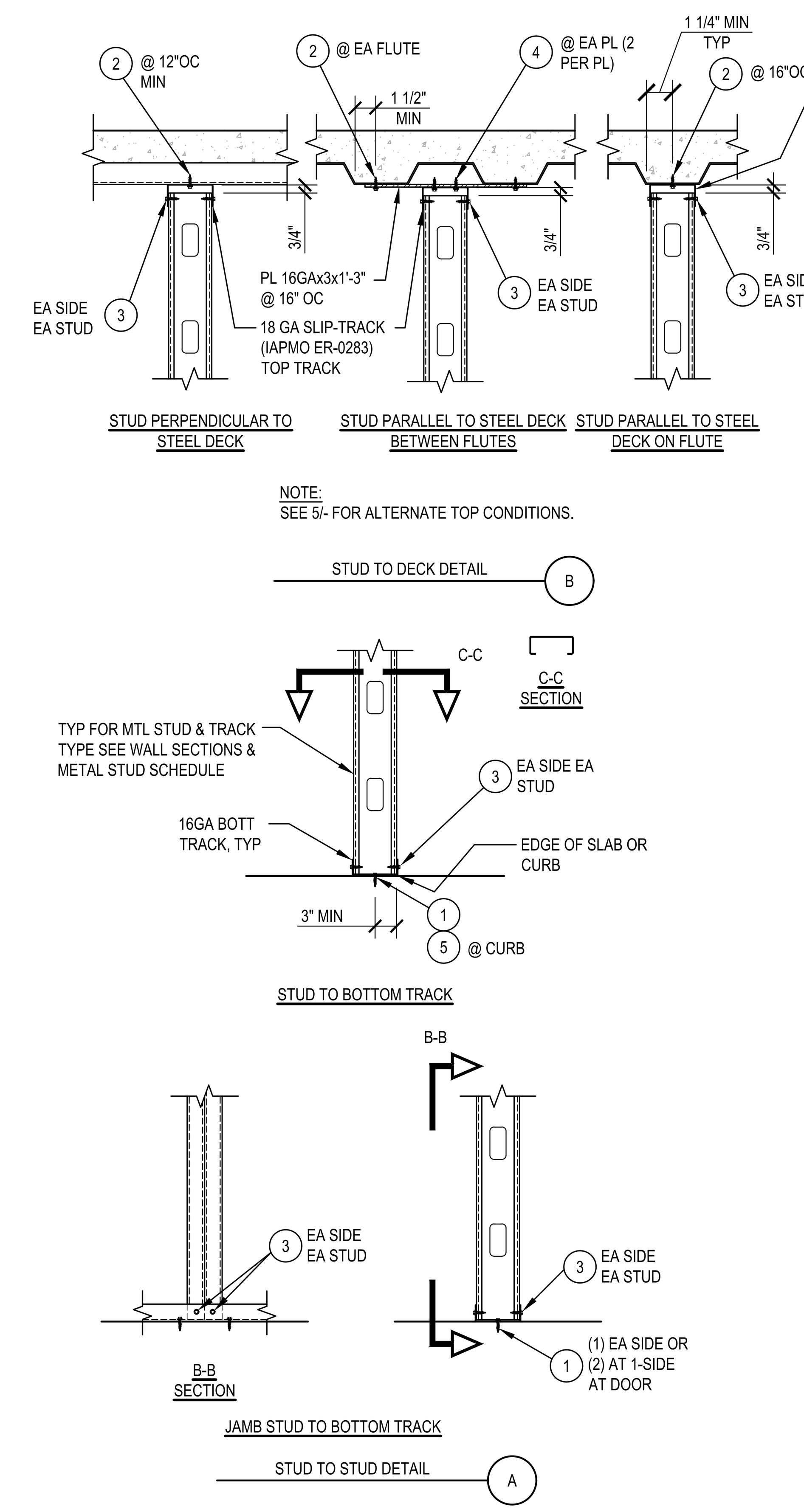
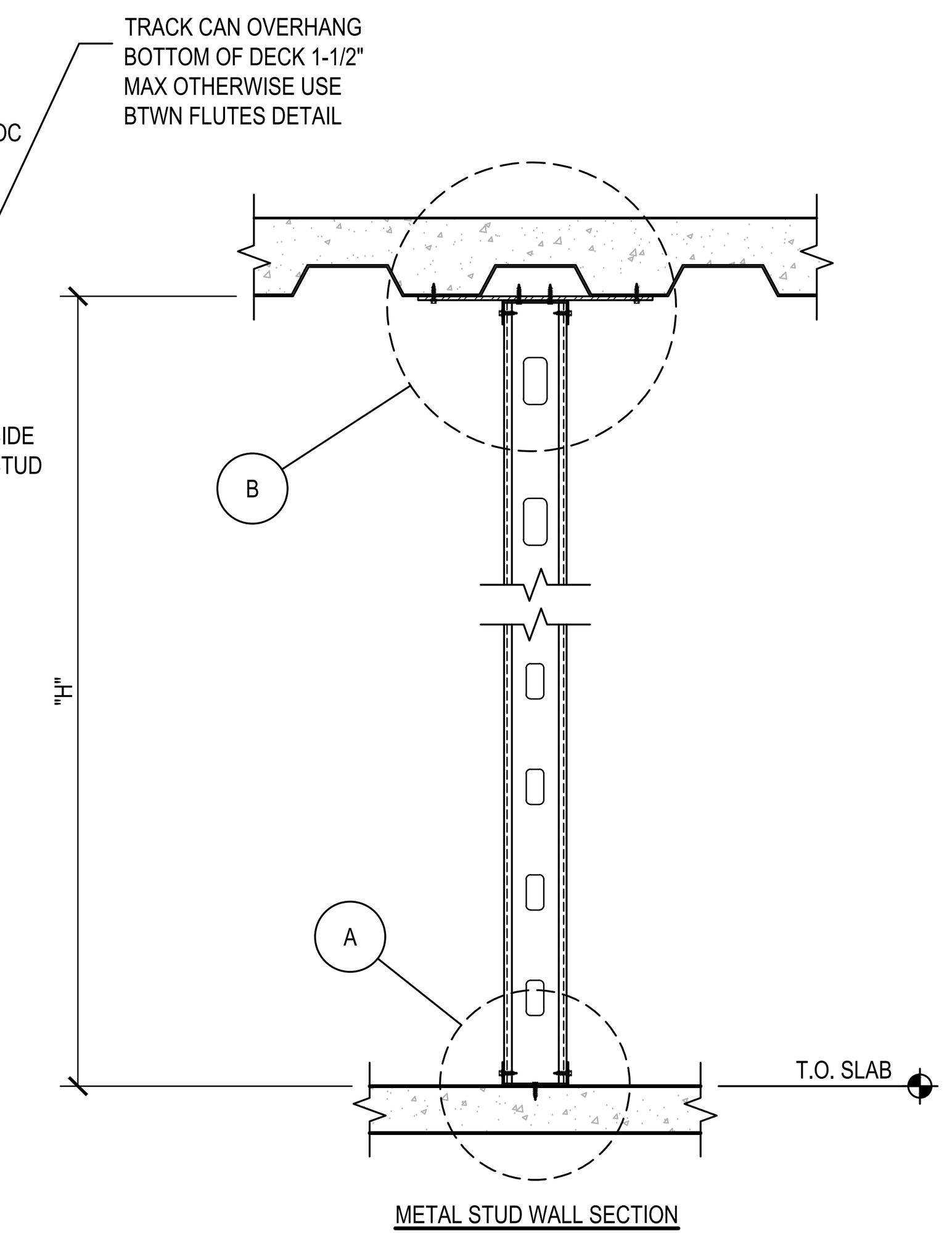


11 METAL STUD BLOCKING
N.T.S.



8 TYPICAL STUD CORNER FRAMING AND TOP TRACK SPLICE
N.T.S.





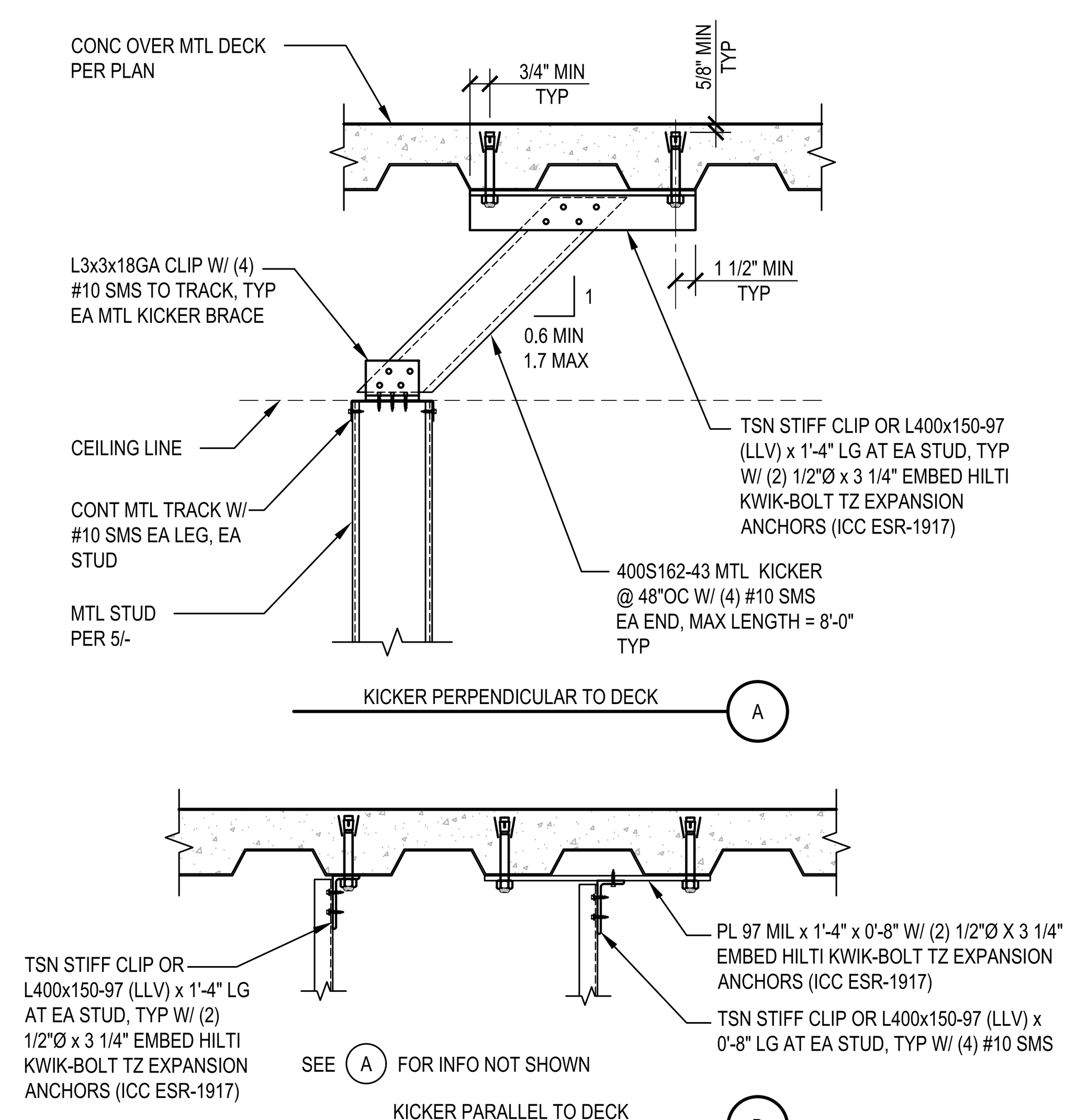
MAX HEIGHT INTERIOR NON-BEARING STEEL STUDS			
THICKNESS (MILS)	STEEL STUD SIZE (S137 FLANGE)		
	362	400	600
33	16'-0"	17'-3"	23'-9"
43	17'-5"	18'-10"	26'-1"
54	18'-7"	20'-2"	27'-11"

NOTES:
1. MAXIMUM STUD HEIGHT "H" FOR STUDS @ 16" OC.
2. SEE ARCHITECTURAL FOR REMAINDER, INCLUDING STUD DEPTH.
3. LIMIT L/240 DEFLECTION.
4. STUDS CARRYING EQUIPMENT OR CASEWORK SHALL BE 16GA MIN.

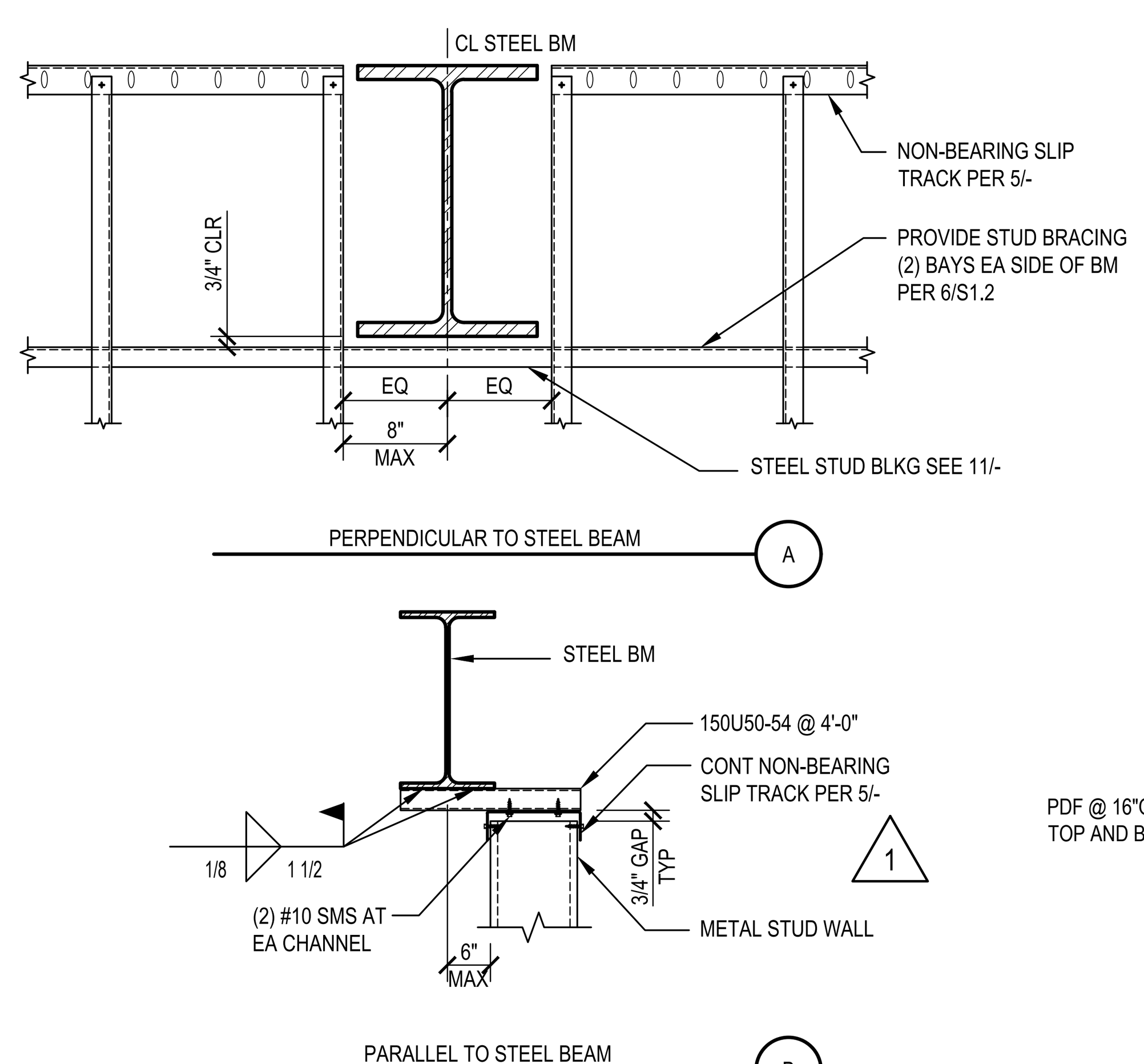
STEEL STUD FASTENER SCHEDULE	
MARK	FASTENER SIZE & SPACING
1	HILTI DS x 1 1/4" EMBED PDF @ 16"OC
2	HILTI DS x 1 1/4" EMBED PDF @ DECK W/ CONC OR SLAB, #10 SMS @ ROOF MTL DECK
3	#10 SHEET METAL SCREW (SMS)
4	#12 SMS
5	3/8"Ø x 2" EMBED HILTI KWIK-BOLT TZ EXPANSION ANCHORS (ICC ESR-1917) @ 16"OC

NOTES:
1. STUDS AND CONNECTION PER SCHEDULE. SEE ARCH FOR DEPTH AND LOCATION OF STUDS.

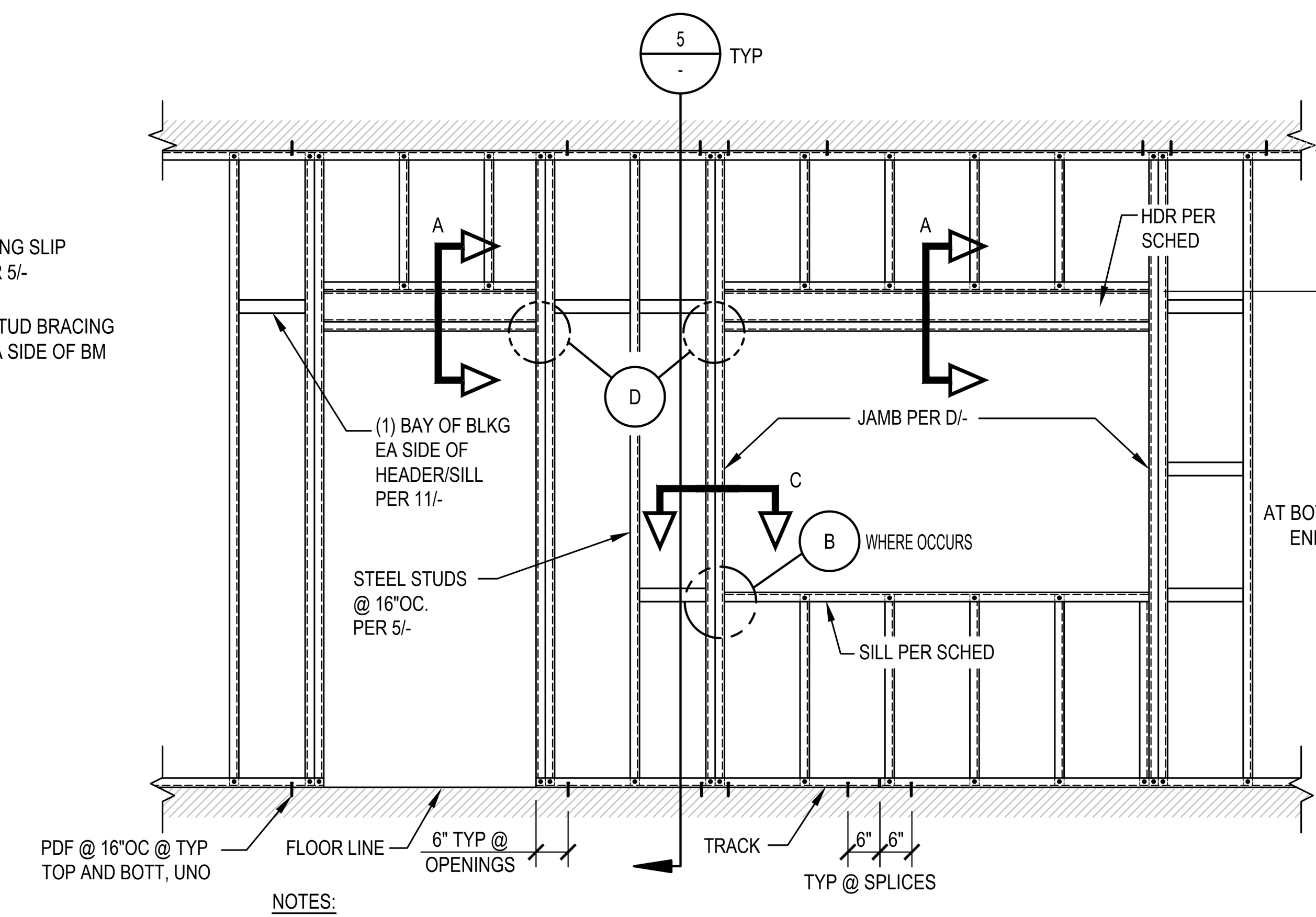
5 INTERIOR NON-BEARING STUD WALL SECTION & DETAILS
N.T.S.



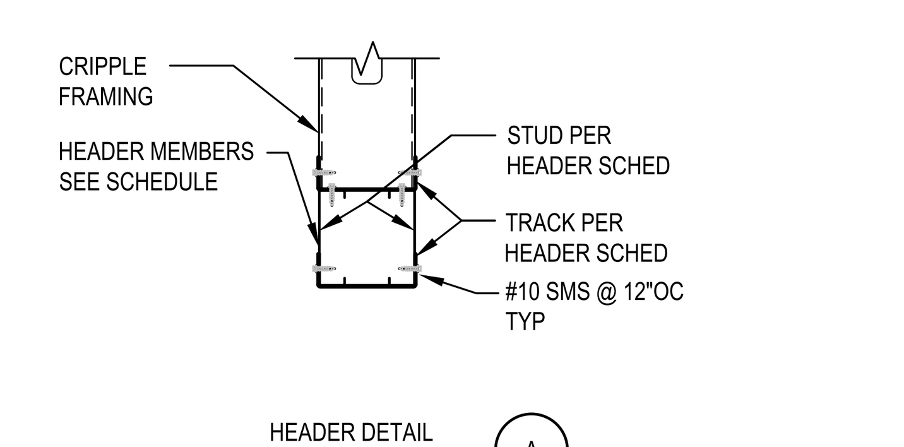
12 PARTIAL HEIGHT NON-BEARING WALL BRACING
N.T.S.

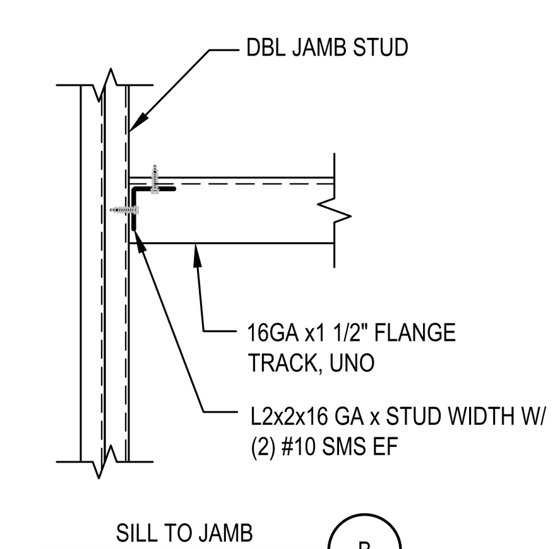


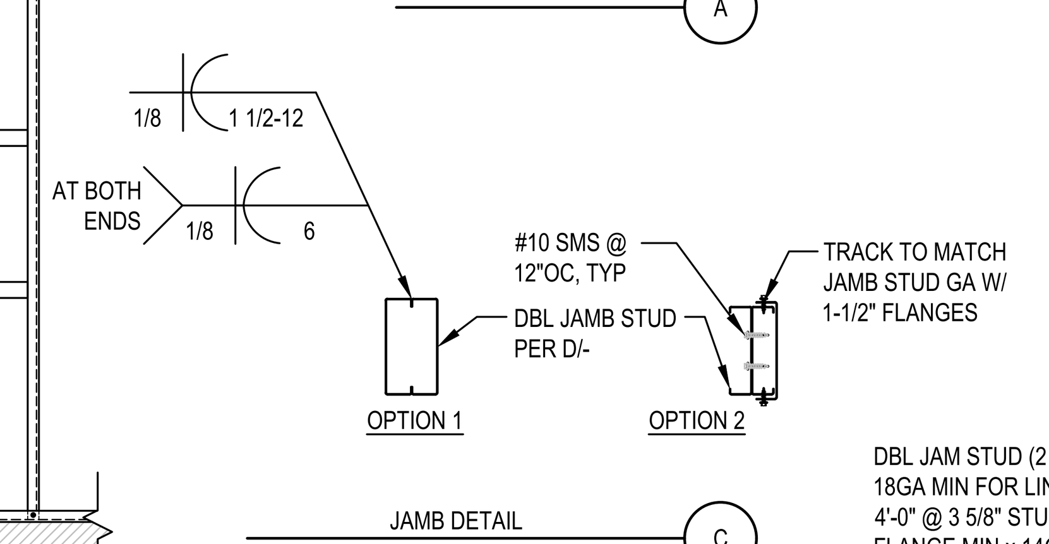
9 INTERIOR STEEL STUD TOP AT STEEL BEAM (FULL HEIGHT WALL)
N.T.S.

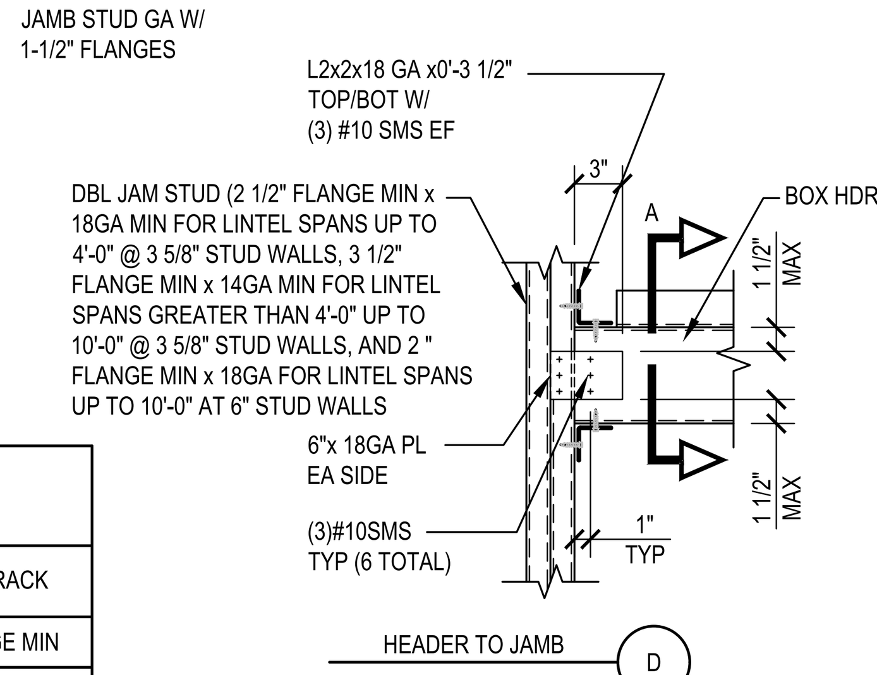


NOTES:
1. SEE ARCH FOR STUD DEPTH, MINIMUM DEPTH SHALL BE 362S.
2. ALL PDF TO BE "HILTI" DS (0.177"Ø) OR EQUAL, W/ 1-1/4" EMBEDMENT
3. ALL TRACKS TO BE 18 GAGE MIN.
4. USE CEMCO FAS 1000 SLIP TRACK WITH INTUMESCENT PAINT AT FIRE-RATED WALLS WHERE OCCURS PER ARCH.









HEADER BEAM SCHEDULE (INTERIOR NON-BEARING PARTITIONS)		
SPAN	HEADER	SILL, HEADER TRACK
≤ 4'-0"	(2) 3 5/8" x 1 3/8" MIN x 18GA STUDS	18GA x 1 1/2" FLANGE MIN
> 4'-0" - ≤ 10'-0"	(2) 4" x 1 3/8" MIN x 16GA STUDS	18GA x 1 1/2" FLANGE MIN

6 INTERIOR NON-BEARING METAL STUD WALL FRAMING AT OPENING
N.T.S.

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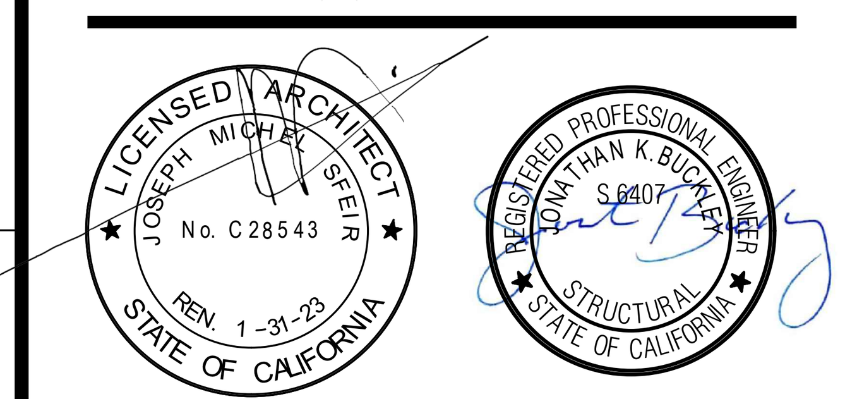
MECHANICAL &PLUMBING:	SC ENGINEERS, INC. 17075 VIA DEL CAMPO SAN DIEGO, CALIFORNIA 92127 TEL(858)946-0333
ELECTRICAL:	AG DESIGN, INC. 171 S. ANITA DR. SUITE 111 ORANGE, CALIFORNIA 92868 TEL(714)769-9900
SHIELDING:	MRI SHIELDING CORPORATION 3554 BUISNESS PARK DR., SUITE B COSTA MESA, CA 92626 TEL(714)545-7700
INTERIORS:	ISLEY DESIGN & PLANNING 1982 PALSERO AVENUE ESCONDIDO, CA 92029 TEL(760)484-0455



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1	OSHPD COMMENTS	8/3/2020
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3	OSHPD COMMENTS	10/2/2020
4	OSHPD COMMENTS	11/24/2020
5	DESIGN CHANGES	11/24/2020
6	ACD 0001 DESIGN CHANGES	4/10/2021
7	ACD 0001 DESIGN CHANGES	5/8/2021

CONSULTANT
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OSHPD APPROVAL STAMP:
OSHPD #: S200813-37-00-ACD0001

SHEET TITLE:
TYPICAL INTERIOR STEEL STUD DETAILS

PROJECT TITLE: TCMC MRI
PROJECT #: 01907.01
DRAWN BY:
CHECKED BY:
SCALE: PER TITLE
DATE: 3/11/2020
SHEET NUMBER: S1-2

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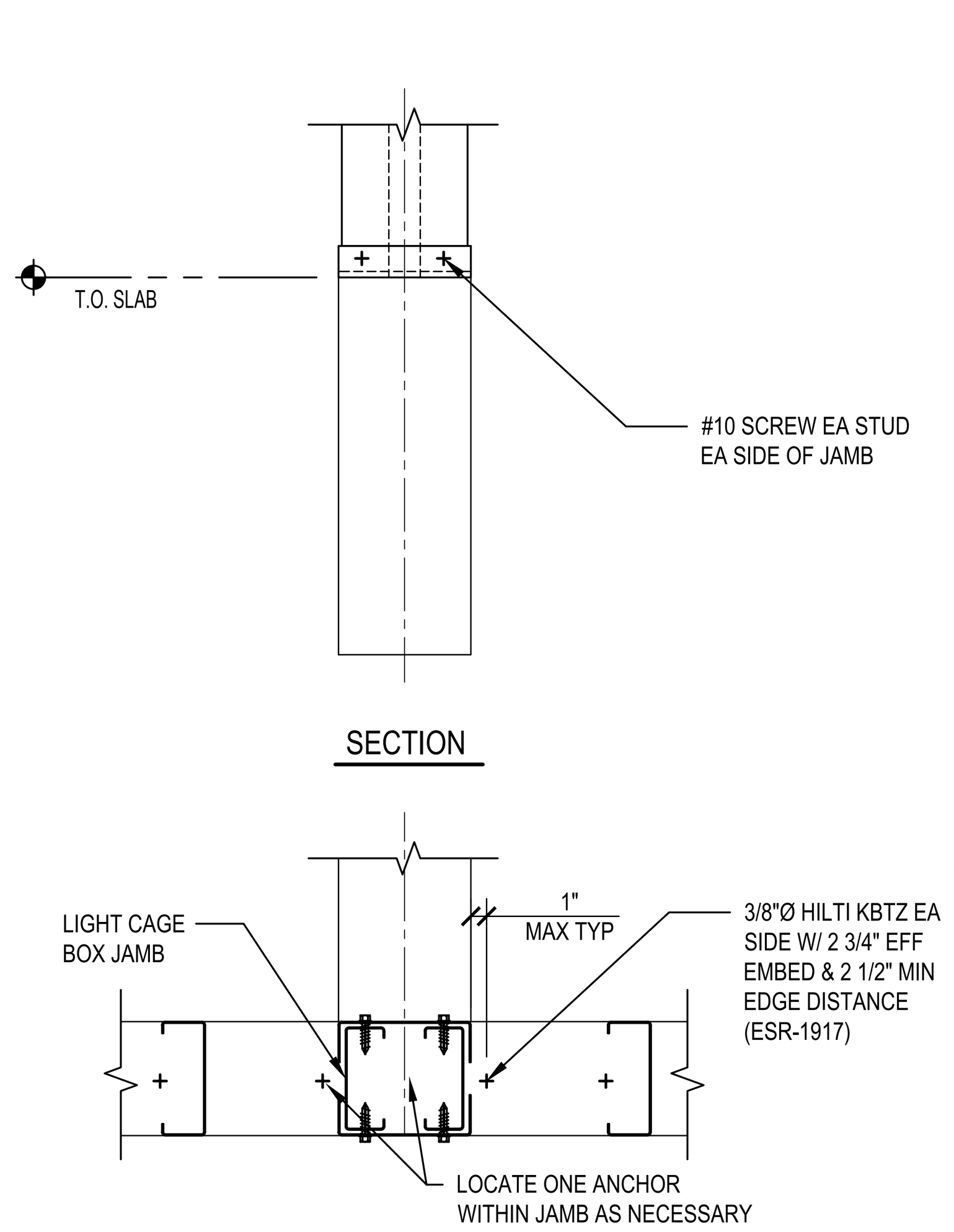
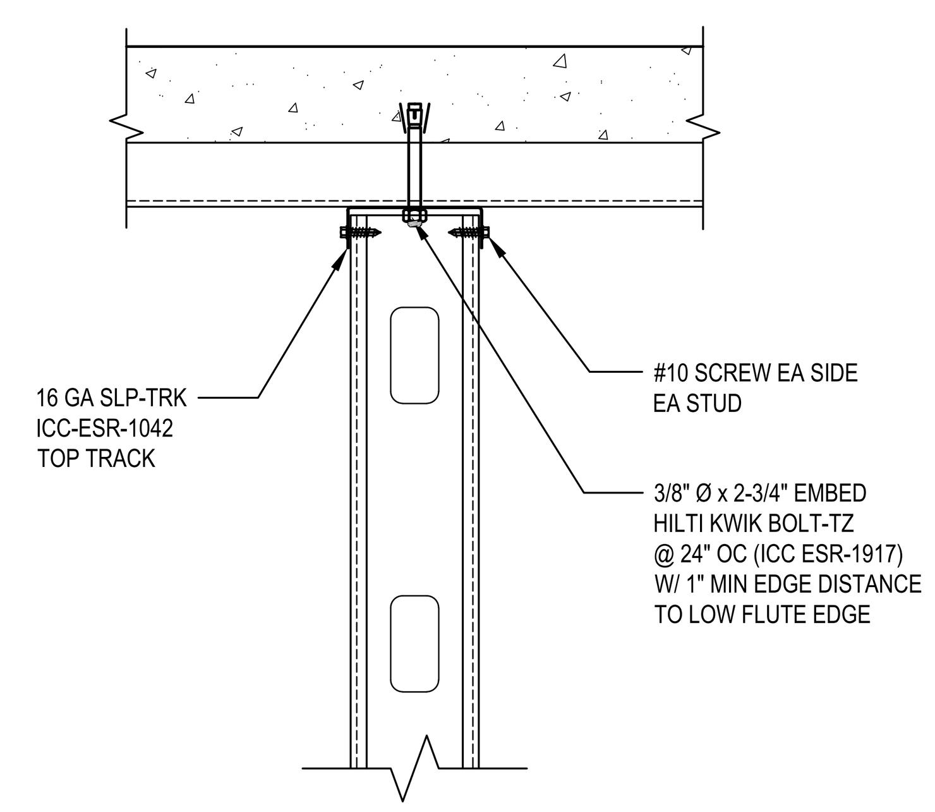


10 TYPICAL JAMB CONN AT FOUNDATION

NTS

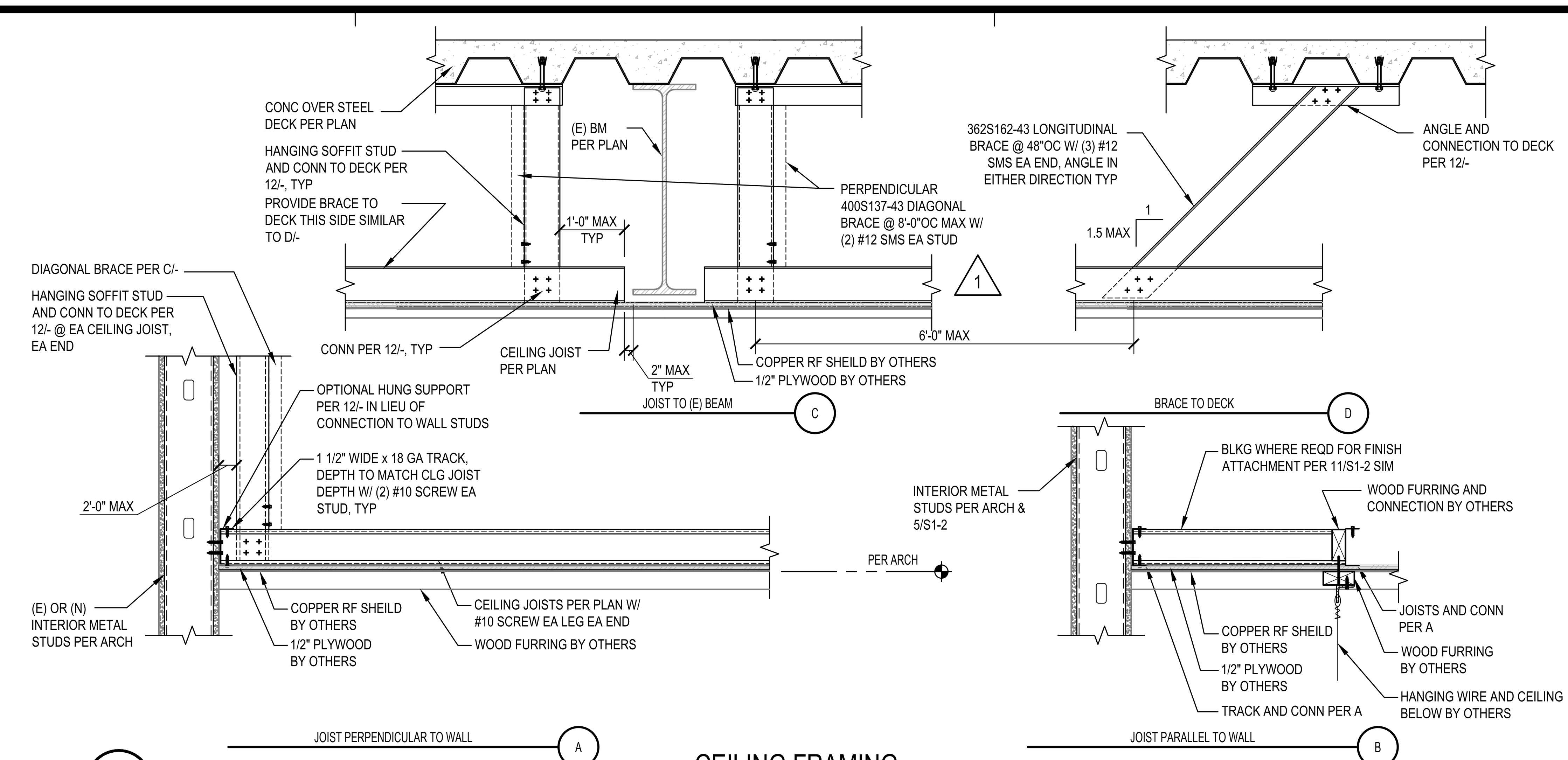
053113-0104 (12) (08/21/14)



7 TOP OF EXTERIOR STUD WALL TO DECK

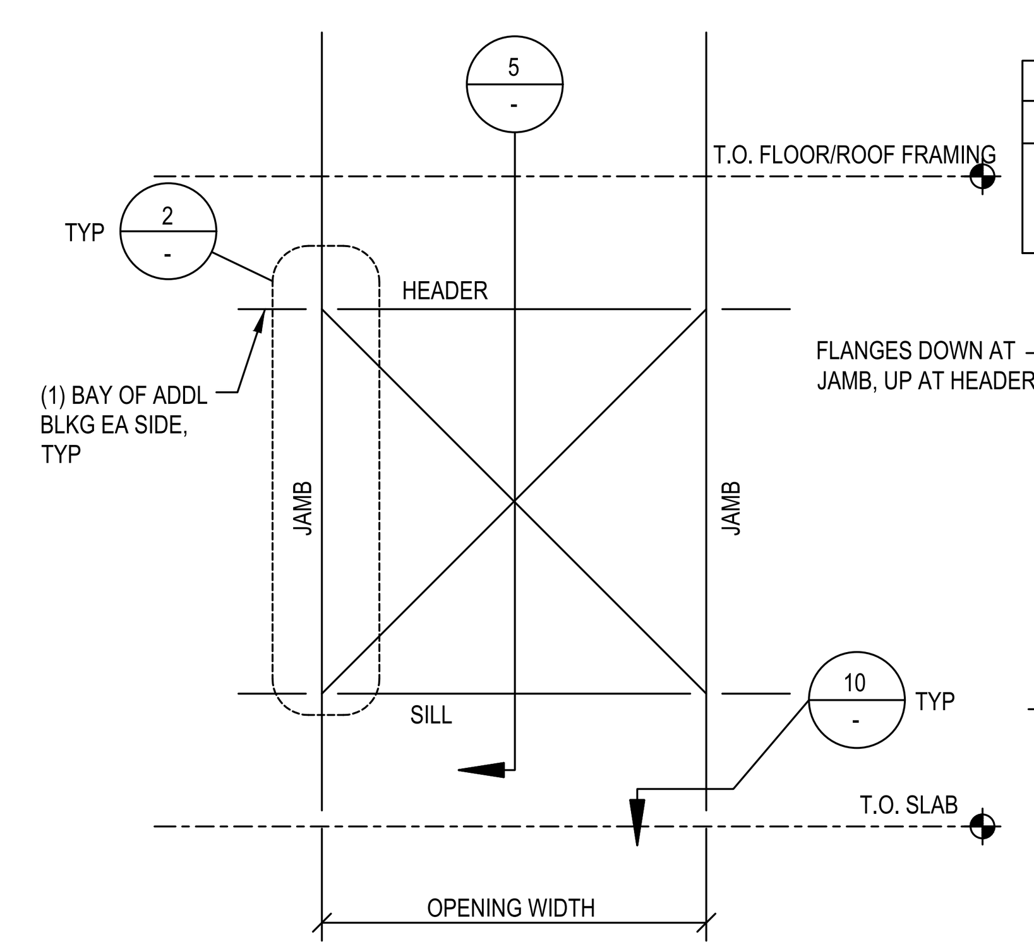
NTS

053113-0104 (12) (08/21/14)

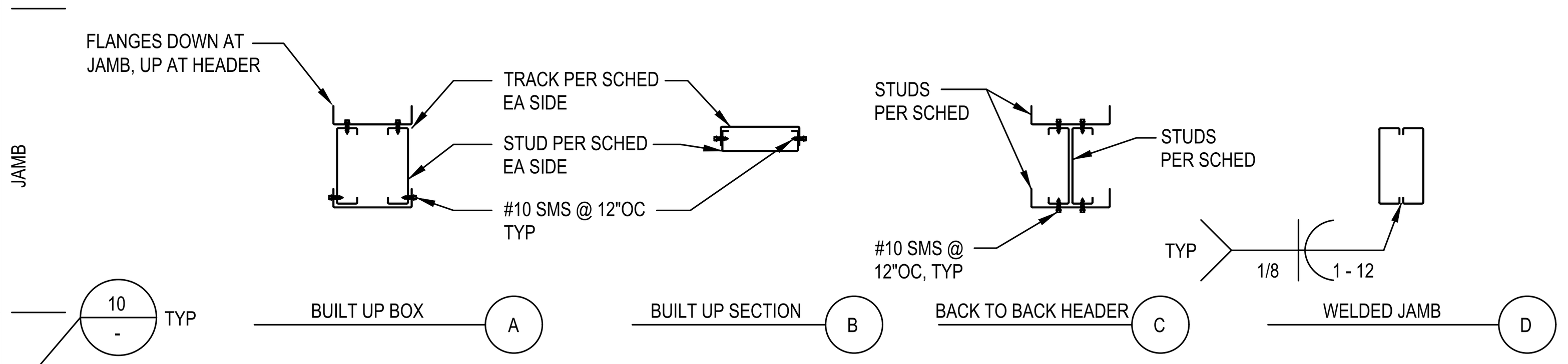


4 CEILING FRAMING

N.T.S.

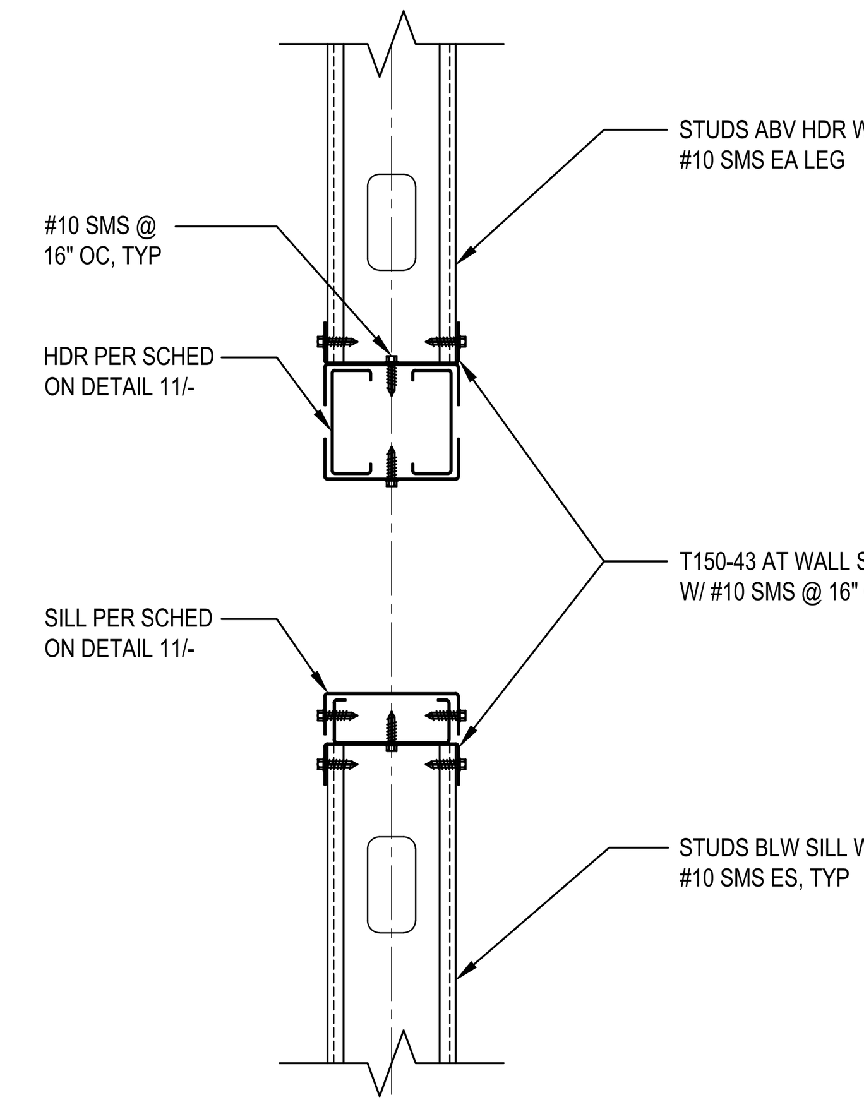


FRAMING MEMBER SCHEDULE UNO					
OPENING WIDTH	JAMB	HEADER	SILL	L CONNECTOR	PL CONNECTOR
8'-0" MAX	(2) 600S200-54 (2) 600T150-43 (SEE DTL A OR D)	(2) 600S162-54 (2) 600T150-43 (SEE DTL A OR C)	600T150-54	(S) SSC4.25 (T&B)	NONE



11 EXTERIOR WALL OPENING FRAMING (UNO)

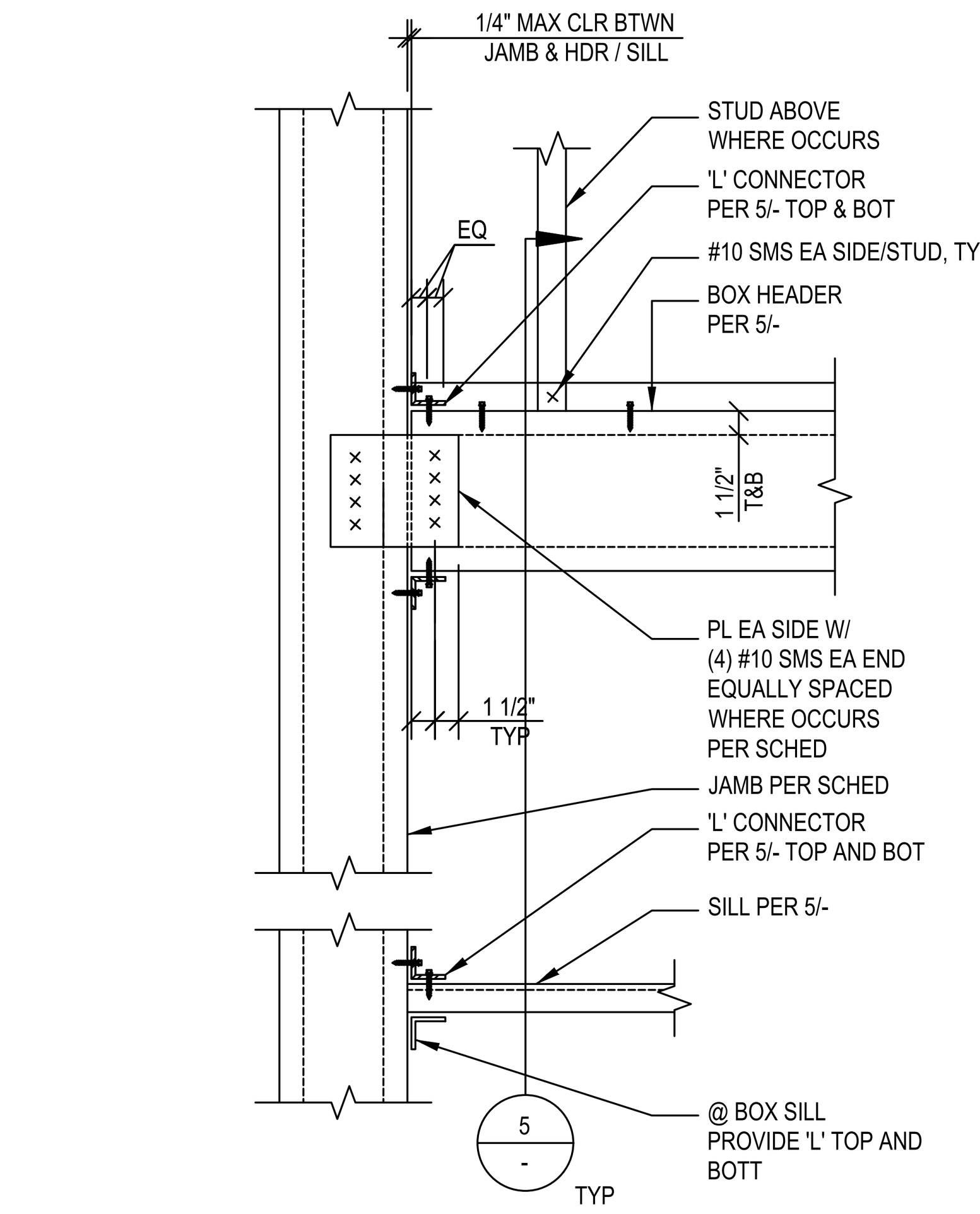
NTS



5 WALL STUD CONN TO HEADER/SILL

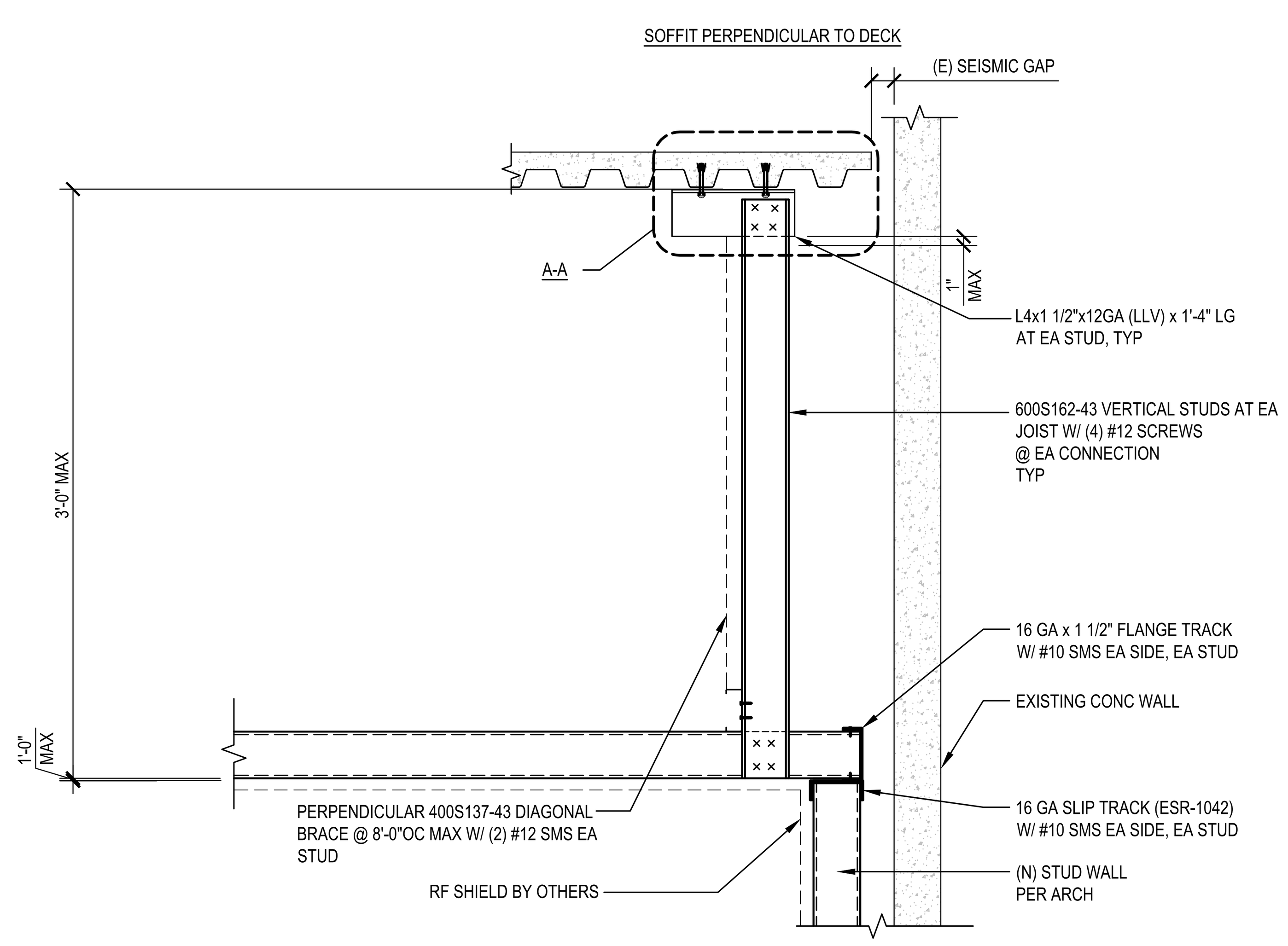
NTS

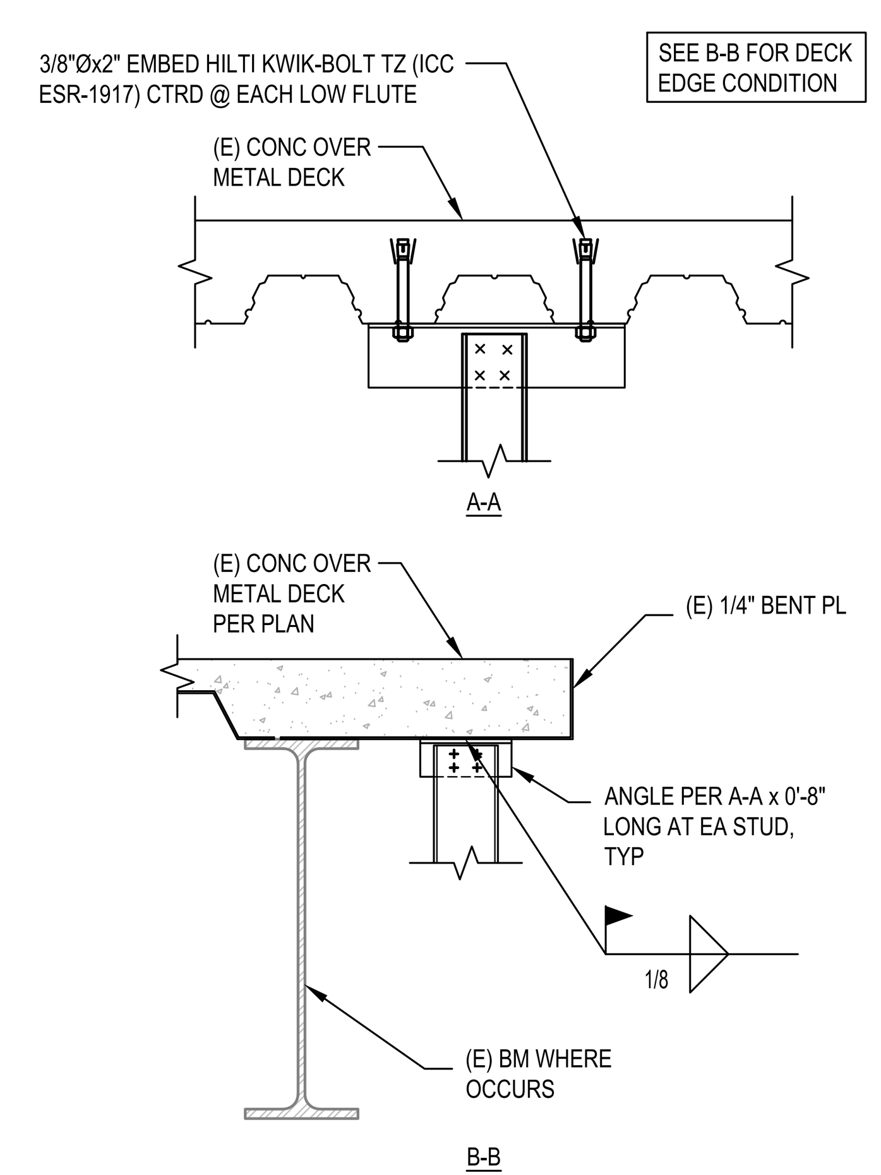
053113-0104 (12) (08/21/14)



2 HEADER CONN TO JAMB

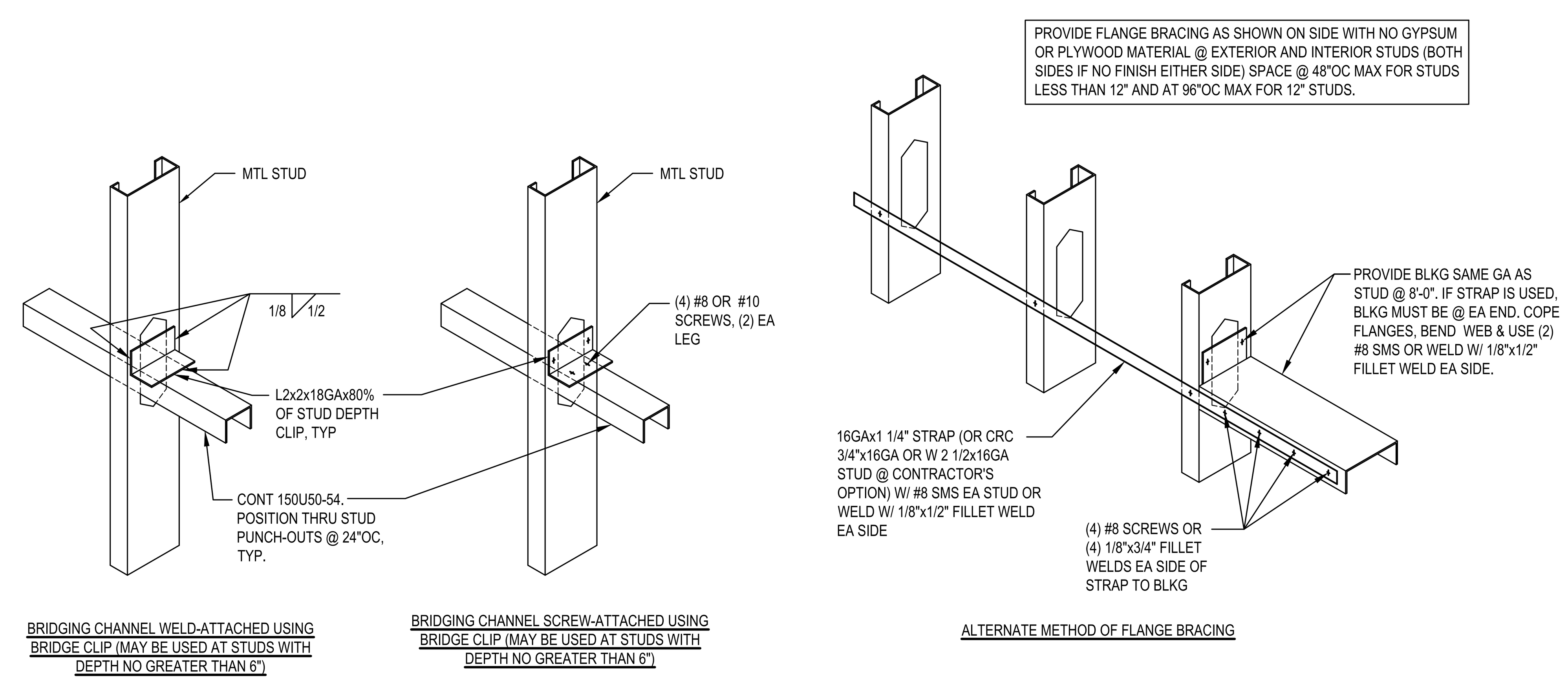
N.T.S.





12 CEILING DETAIL AT EXISTING WALL

N.T.S.



6 STEEL STUD FLANGE BRACING

N.T.S.

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LICENSED ARCHITECT JOSEPH MICHEL SFEIR No. C28543 REN. 1-31-23 STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER JONATHAN K. BUCKALEW S 6807 STRUCTURAL STATE OF CALIFORNIA

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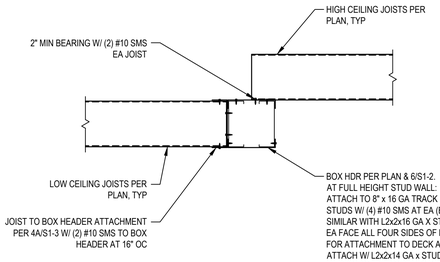
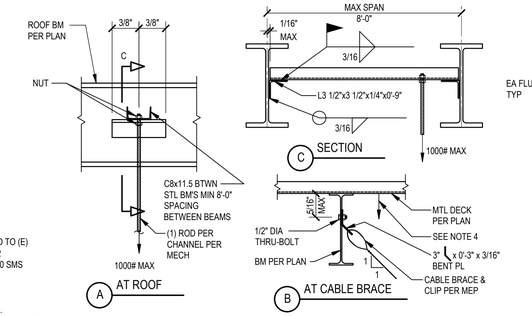


NOTES:
1. SEE ARCH FOR CEILING HEIGHTS AND ALL FINISH ATTACHMENTS

6

7 CEILING HEIGHT TRANSITION DETAIL

NTS

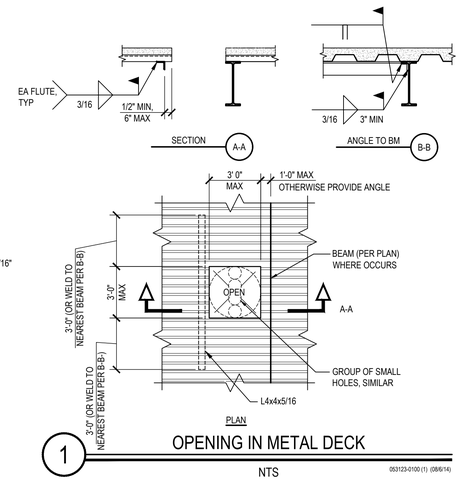


NOTES:
1. SEE MEP FOR REMAINDER OF ANCHORAGE REQUIREMENTS.
2. FOR SUPPORT ANCHORAGE TO CONC FILLED DECK SEE 2/S1-4
3. MULTIPLE CHANNELS WITH GREATER THAN 50 POUND LOADS SHALL BE SPACED AT 1'-0" MIN. TOTAL LOAD PER BEAM SHALL NOT EXCEED 1000 LBS.
4. LOAD TO HANG FROM STEEL DECK WITHOUT CHANNEL SUPPORT SHALL NOT EXCEED 150 LBS PER SHEET OF DECK PER SPAN. MINIMUM SPACING BETWEEN ANCHORS SUPPORTING GREATER THAN 20 POUNDS SHALL BE 1'-0" MIN.
5. LAYOUTS AND CONNECTIONS TO DECK IN ACCORDANCE WITH OSHPD OPM OR SMACNA DESIGNED BY OTHERS IS ACCEPTABLE IN LIEU OF THE DETAILS ABOVE.

4 HANGER SUPPORT AT BEAMS & DECK

NTS

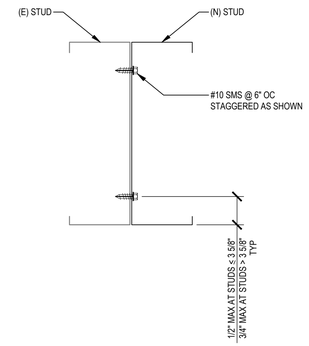
053113-0104 (12) (08/21/14)



1 OPENING IN METAL DECK

NTS

053123-0100 (1) (08/6/14)

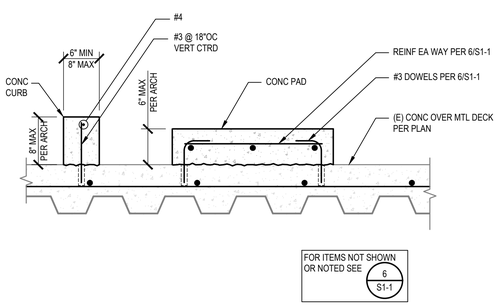


6

8 TYPICAL SISTER STUD

NTS

053113-0104 (12) (08/21/14)

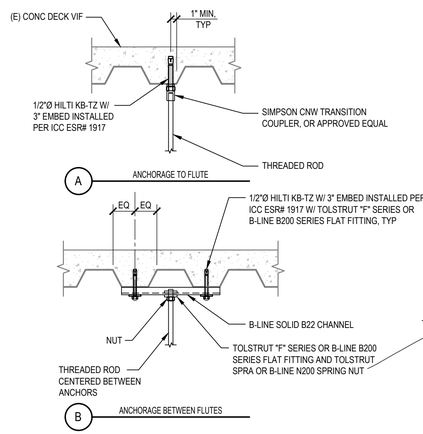


5

5 PAD AND CURB

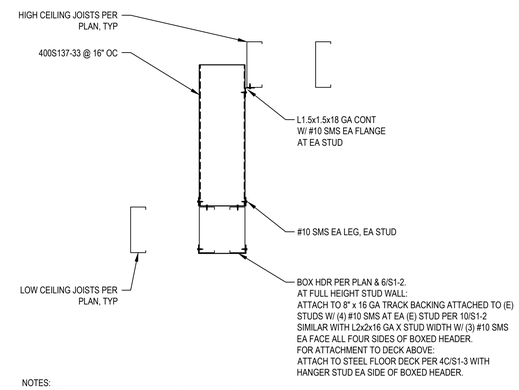
NTS

053113-0104



2 TYPICAL VERTICAL ANCHORAGE TO CONCRETE OVER METAL DECK

N.T.S.

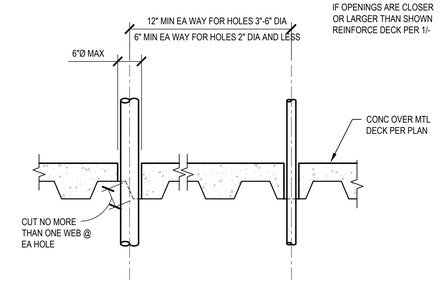


NOTES:
1. SEE ARCH FOR CEILING HEIGHTS AND ALL FINISH ATTACHMENTS

6

6 CEILING HEIGHT TRANSITION DETAIL

NTS



@ CONCRETE-OVER-METAL DECK

3 PENETRATION IN METAL DECK

NTS

053000-0101 (1) (08/21/14)

S F E I R
A R C H I T E C T S

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TCMC MRI

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LICENSED ARCHITECT — JOSEPH MICHAEL ISFEIR — No. C 28543 — REN. 1-31-23 — STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER — TIM HAN K. BUI — No. S-6607 — STRUCTURAL — STATE OF CALIFORNIA

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5	5	DESIGN CHANGES	11/24/2020
6	6	ACD 0001 DESIGN CHANGES	4/12/2021
7	7	ACD 0001 DESIGN CHANGES	5/6/2021

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OSHPD APPROVAL STAMP:

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SHEET TITLE:

TYPICAL STEEL & METAL DECK DETAILS

PROJECT TITLE:

TCMC MRI

PROJECT #: 01907.01
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SHEET NUMBER:

S1-4

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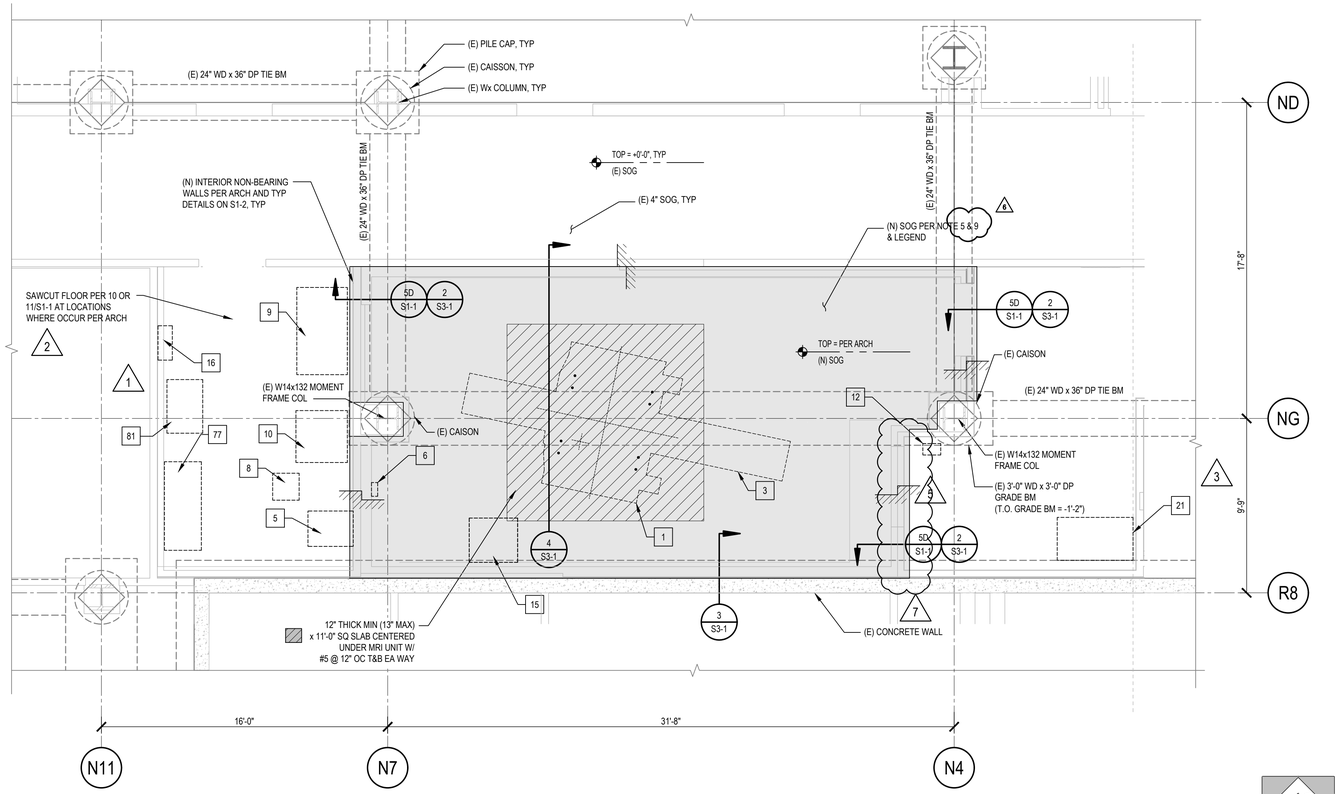


A

FOUNDATION PLAN - WEST

1/4" = 1'-0"

north

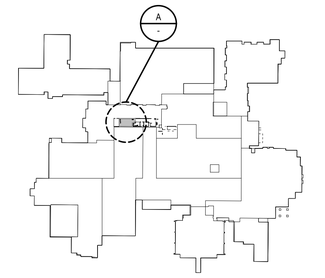
EQUIPMENT ANCHORAGE SCHEDULE

EQUIPMENT TAG	DESCRIPTION	MAX WEIGHT (LBS)	OSP #	MODEL NO.[8]	LOCATION	ANCHORAGE DETAIL	SEISMIC COEFFICIENTS a_p	R_p	Ω	MIN LENGTH "A"	MIN WIDTH "B"	HEIGHT	MAX CENTER OF GRAVITY "C"	ANCHORAGE	TEST LOAD
01	3T MAGNET	17,000	-	-	FLOOR MOUNT	10/S4-1	2.5	2.5	2	53"	53"	93.8"	41.9"	(8) 1-1/4" Ø HAS-R 316 STAINLESS STEEL THREADED ROD IN HILTI HIT-HY 200 EPOXY W/ 9" EMBED	PULL TEST LOAD = 10,500 LBS
03	PATIENT TABLE (MOBILE)	500	-	-	FLOOR MOUNTED DOCK ANCHOR ONLY	10/S4-1	N/A	N/A	N/A	90"	40.5"	40"	N/A	(1) 3/4" Ø F1554 GR 55 THREADED ROD IN HILTI HIT-HY 200 EPOXY W/ 5" EMBED	PULL TEST LOAD = 5,000 LBS
05	PENETRATION CABINET	650	-	-	FLOOR MOUNT	3/S4-1	2.5	6.0	2	26.6"	21.3"	75.6"	23.5"	L3x3x1/4" x 2'-0" LONG W/ (3) 1/2" Ø BOLTS TO CABINET FRAME AND (4) 1/2" Ø HILTI KWIK BOLTS-TZ W/ 2" EMBED	TORQUE TEST LOAD = 40 FT-LB
06	SECONDARY PENETRATION WALL	100	-	-	WALL MOUNT	4/S4-1	2.5	6.0	2	14"	50"	60.5"	1"	(4) 1/4"Ø SHEET METAL SCREWS MIN	-
08	CRYOCOOLER COMPRESSOR (MOBILE)	280	-	-	FLOOR MOUNT	6/S4-1	2.5	6.0	2	18"	13"	24"	14"	(4) 1/2"Ø HILTI KWIK BOLT-TZ W/ 2" EMBED	TORQUE TEST LOAD = 40 FT-LB
09	POWER, GRADIENT, RF CABINET	3,300	-	-	FLOOR MOUNT	3/S4-1	2.5	6.0	2	26.6"	21.3"	82.6"	23.5"	L3x3x1/4" x 2'-0" LONG W/ (3) 1/2" Ø BOLTS TO CABINET FRAME AND (4) 1/2" Ø HILTI KWIK BOLTS-TZ W/ 2" EMBED	TORQUE TEST LOAD = 40 FT-LB
10	HEAT EXCHANGER CABINET	1350	-	-	FLOOR MOUNT	3/S4-1	1	2.5	2	37.7"	21.3"	74.6"	28.4"	L3x3x1/4" x 2'-0" LONG W/ (3) 1/2" Ø BOLTS TO CABINET FRAME AND (4) 1/2" Ø HILTI KWIK BOLTS-TZ W/ 2" EMBED	TORQUE TEST LOAD = 40 FT-LB
12	OPERATOR CONSOLE COMPUTER	150	-	-	FLOOR MOUNT	3/S4-1	2.5	6.0	2	29.7"	3.1"	23.3"	11.7"	(4) 1/2"Ø HILTI KWIK BOLT-TZ W/ 2" EMBED	TORQUE TEST LOAD = 40 FT-LB
15	PHANTOM SET STORAGE CABINET	350	-	-	FLOOR MOUNT	-	-	-	-	32.5"	30"	60"	32"	N/A, MOBILE EQUIPMENT ON CASTERS	-
16	MAIN DISCONNECT PANEL	130	OSP-0457-10	M7000WL	WALL MOUNT	4/S4-1	2.5	6.0	2	22.1"	36.3"	35.4"	5.7"	(4) 3/8" DIA BOLTS	-
21	PYXIS DOUBLE COLUMN	2,810	-	-	FLOOR MOUNT	6/S3-1	1.0	1.5	1.5	50"	26.5"	79.5"	45.6"	(8) 1/2"Ø HILTI KWIK BOLT-TZ WITH 2" EMBED, SEE NOTE 10	TORQUE TEST LOAD = 40 FT-LB
34	DIMPLEX CHILLER	4,400	OSP-0169-10	W02-7500	ROOF MOUNT	1/S2-30	2.5	2.0	2	86"	31.4"	100"	47"	(4) 1/2"Ø BOLTS AT TOP & BOTTOM OF EA ISOLATOR, SEE NOTE 9 FOR ISOLATORS	-
35	CONDENSER UNIT	550	OSP-0537	TUHYP0723AN40AN	ROOF MOUNT	2/S2-30	2.5	3.0	1.5	29"	26"	72"	36"	(4) 1/2" DIA BOLTS	-
82	HUMIDIFIER	188	OSP-0225-10	EL SPACE 005	WALL MOUNT	4/S4-1	2.5	6.0	2	12.5"	31.4"	35.4"	7.2"	(4) 3/8" DIA BOLTS	-
83	FAN COIL	240	OSP-0537	TPEFYP072MH140A	HUNG	2/S1-4	2.5	6.0	2	54"	40"	19"	9"	(4) 1/2" DIA THRD RODS W/ P100 ROD STIFF. 3/16" DIA AIRCRAFT CABLE ALL 4 CORNERS W/ MASON SCB/SCBH CLIPS EA END. ATTACH TO DECK PER 2/S1-4	TORQUE TEST LOAD = 40 FT-LB
77	UPS AND BATTERY CABINET	2,250	OSP-0088-10	160 KVA S/S SERIES UPS	FLOOR MOUNT	3/S4-1	1	2.5	2	49.1"	29.1"	71.2"	35"	(4) 1/2" HILTI KWIK BOLT-TZ W/ 3-1/4" EMBED ON CONC PAD PER 6/S1-1 W/ 3" EDGE DISTANCE	TORQUE TEST LOAD = 40 FT-LB
79	MRI TRANSFORMER	550	OSP-0008-10	V48M28T4516CU	FLOOR MOUNT	9/S4-1	1	2.5	2	11"	21.4"	36.9"	20"	(4) 1/2" HILTI KWIK BOLT-TZ W/ 2" EMBED ON PAD PER 5/S1-4	TORQUE TEST LOAD = 40 FT-LB
80	PANELBOARD	150	OSP-0009-10	PRL 1a/2a	WALL MOUNT	12/S4-1	2.5	6.0	2	20.75"	6.44"	60.25"	3.8"	SEE DETAIL 12/S4-1	SEE DETAIL 12/S4-1
81	MBC MRI	660	OSP-0010-10	MEDP092012-009a	FLOOR MOUNT	9/S4-1	2.5	6.0	2	30.0"	26.5"	90.5"	50"	(4) 1/2" DIA HILTI KWIK BOLT-TZ W/ 3 1/4" EMBED ON 4" CONC PAD PER 6/S1-1 (3" MIN CONC EDGE DISTANCE)	TORQUE TEST LOAD = 40 FT-LB

NOTES:
1. SEE ARCH FOR REMAINDER OF EQUIPMENT.
2. EOR TO BE INFORMED OF ANY INFORMATION DIFFERENT THAN VALUES SHOWN IN SCHEDULE.
3. VIBRATION SPRING ISOLATORS OR NEOPRENE REQUIREMENT NOT COVERED BY EOR AND MUST BE SUPPLIED BY MFR OR MECH.
4. INSTALL ANCHORS PER THE FOLLOWING
   ICC REPORT #'S
   HILTI HIT-HY 200: ICC ESR-3187
   HILTI KWIK-BOLT TZ: ICC ESR-1917
5. SEE MECHANICAL/ELECTRICAL/PLUMBING DRAWINGS FOR ANY UNITS NOT SHOWN ON PLAN.
6. ALL ANCHORS EXPOSED TO ELEMENTS SHALL BE HOT-DIPPED GALVANIZED OR STAINLESS STEEL
7. ALL CONCRETE ANCHORS TO HAVE A MINIMUM EDGE DISTANCE OF 6" IN ALL DIRECTIONS
8. MODEL NUMBERS PER ARCH/MEP AND NOT CHOSEN BY SEOR
9. (8) TOTAL MASON SLRSO-B-750 SPRING ISOLATORS.
10. UNIT IS ATTACHED TO SEISMIC ANCHORING KIT PER MANUFACTURER AND SEISMIC ANCHORING KIT IS ANCHORED TO SLAB PER SCHEDULE.

NOTES:
1. FOR ANY DIMENSIONAL INFORMATION NOT SHOWN, SEE ARCH'L DRAWINGS.
2. SEE SHEET S0-1 AND S0-2 FOR GENERAL NOTES AND S1-1 THRU S1-4 FOR TYPICAL DETAILS.
3. SEE ARCH FOR ALL INTERIOR PARTITIONS AND CEILINGS.
4. ALL EXISTING DIMENSIONS AND SPACING SHALL BE VERIFIED IN FIELD.
5. ALL INTERIOR SLABS ARE 5" THICK (UNO) REINFORCED WITH #4 REBAR @ 18"OC @ MID DEPTH OF SLAB OVER 15 MIL (MIN) VAPOR BARRIER, OVER PREPARED PAD (NATIVE SOIL SHALL BE COMPACTED TO AT LEAST 90% OF MAXIMUM DRY DENSITY).
6. PROVIDE SLAB ON GRADE CONTROL JOINTS PER 12/S1-1.
7. SEE ARCHITECTURAL FOR ELEVATION OF SLABS AND DEPRESSIONS.
8. LOCATION OF ALL UNITS PER ARCH, UNO.
9. SLAB SHALL MEET FLATNESS AND AREA REQUIREMENTS PER MRI MANUFACTURER.

LEGEND:
- ## — INDICATES EQUIPMENT ANCHORAGE TAG PER SCHEDULE THIS SHEET.
- INDICATES EXISTING CONCRETE WALL
- INDICATES DEPRESSED SOG PER PLAN AND NOTE 5. SLAB DEPRESSION PER ARCH, 2" MAX
- INDICATES 12" MIN (13" MAX) THICK SLAB AT MRI UNIT PER PLAN
- TOP=0'-0" / SOG — INDICATES ELEVATION OF SLAB ON GRADE = PER PLAN. DATUM ELEVATION = 0'-0", TYP UNO
- INDICATES CHANGE IN ELEVATION OF SLAB
- INDICATES EQUIPMENT PER SCHEDULE THIS SHEET
- INDICATES NON-BEARING WALL ABOVE PER ARCH
- INDICATES CONCRETE EQUIPMENT PAD PER 6/S1-1



north

KEY PLAN

N.T.S.

100% - CONSTRUCTION DOCUMENTS

S F E I R
A R C H I T E C T S

5151 Shoreham Pl, Suite 265
San Diego, CA 92122

P: 619-299-3917
F: 619-299-5084
www.sfeirarch.com

TCMC MRI

Tri-City Medical Center

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OCEANSIDE CA, 92056

OWNER: TRI-CITY MEDICAL CENTER
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OCEANSIDE, CALIFORNIA 92056
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ARCHITECT: SFEIR ARCHITECTS
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LA MESA, CA 91942
TEL(858)457-3001

MECHANICAL &PLUMBING: SL ENGINEERS, INC.
17075 VIA DEL CAMPO
SAN DIEGO, CALIFORNIA 92127
TEL(858)946-0333

ELECTRICAL: AG DESIGN, INC.
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TEL(714)769-9900

SHIELDING: MRI SHIELDING CORPORATION
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TEL(714)545-7700

INTERIORS: ISLEY DESIGN & PLANNING
1982 PALSERO AVENUE
ESCONDIDO, CA 92029
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LICENSED ARCHITECT — JOSEPH MICHAEL SFEIR — No. C 28543 — REN. 1-31-22 — STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER — JONATHAN K. BUCKLEY — S 5607 — STRUCTURAL — STATE OF CALIFORNIA

REV		DESCRIPTION:	DATE:
1	1	OSHPD COMMENTS	8/3/2020
2	2	DESIGN CHANGES	8/10/2020
3	3	OSHPD COMMENTS	10/2/2020
4	4	OSHPD COMMENTS	11/24/2020
5	5	DESIGN CHANGES	1/24/2020
6	6	ACD 0001 DESIGN CHANGES	4/12/2021
7	7	ACD 0001 DESIGN CHANGES	5/8/2021

CONSULTANT

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OSHPD APPROVAL STAMP:

OSHPD #: S200813-37-00-ACD0001

SHEET TITLE:

PARTIAL FOUNDATION PLAN - WEST

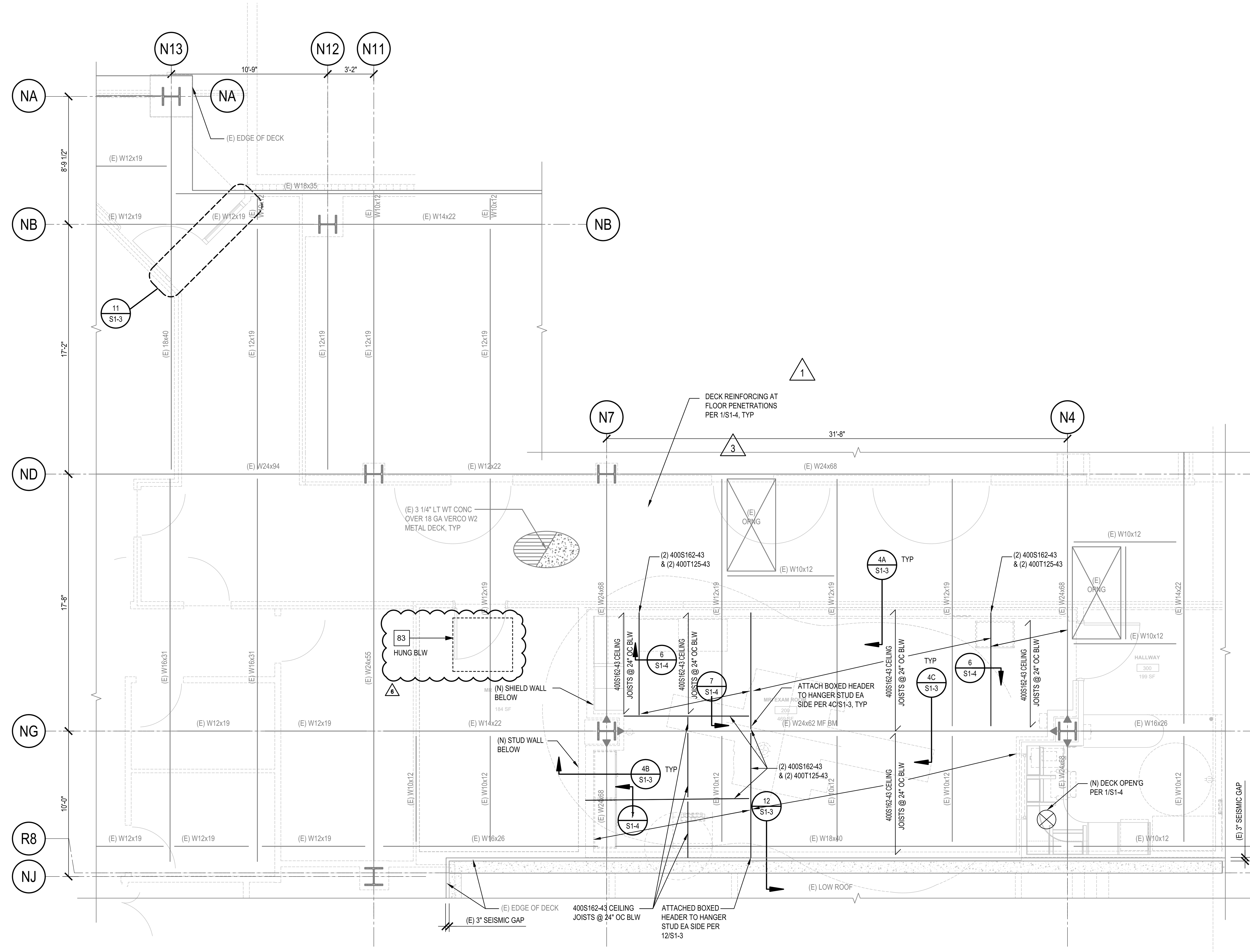
PROJECT TITLE:

TCMC MRI

PROJECT #: 01907.01
DRAWN BY:
CHECKED BY:
SCALE: PER TITLE
DATE: 3/11/2020

SHEET NUMBER:

S2-10



SECOND FLOOR FRAMING PLAN - WEST

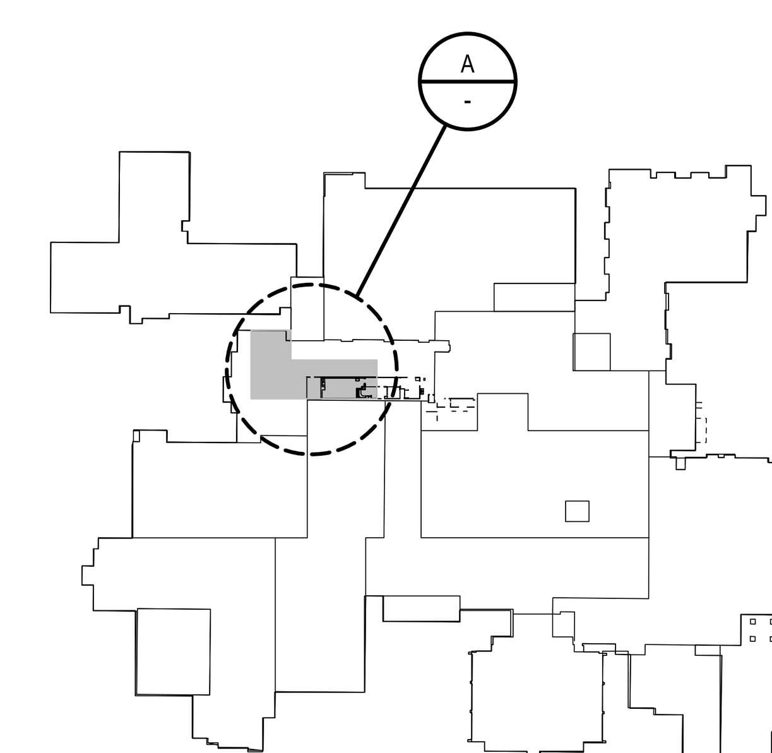
1/4" = 1'-0"

NOTES:

1. FOR ANY DIMENSIONAL INFORMATION NOT SHOWN, SEE ARCH'L DRAWINGS.
2. SEE SHEET S0-1 AND S0-2 FOR GENERAL NOTES AND S1-1 THRU S1-3 FOR TYPICAL DETAILS.
3. SEE ARCH FOR ALL INTERIOR PARTITIONS AND CEILINGS.
4. ALL EXISTING DIMENSIONS AND SPACING SHALL BE VERIFIED IN FIELD.
5. ALL EXISTING MEMBERS MARKED WITH 'VIF' SHALL SPECIFICALLY BE VERIFIED IN FIELD. NOTIFY SEOR OF ANY DEVIATIONS.
6. EXISTING FIREPROOFING SHALL BE REMOVED AS NECESSARY AND REPLACED.

LEGEND:

- INDICATES EXISTING CONCRETE OVER METAL DECK PER SCHEDULE THIS SHEET
- INDICATES EQUIPMENT ANCHORAGE TAG PER S2-10 SCHEDULE.
- INDICATES EXISTING CONCRETE WALL
- INDICATES EXISTING OPENING
- INDICATES EXISTING SEISMIC JOINT
- (E) INDICATES EXISTING
- (N) INDICATES NEW
- INDICATES (N) OPENING IN (E) METAL DECK PER 1/S1-4
- INDICATES (E) MOMENT CONNECTION
- INDICATES (N) ROOFTOP MECHANICAL UNIT
- INDICATES NON-BEARING WALL ABOVE PER ARCH
- INDICATES NON-BEARING WALL BELOW PER ARCH



KEY PLAN

N.T.S.

SFEIR ARCHITECTS
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TCMC MRI

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MECHANICAL &PLUMBING:	SC ENGINEERS, INC., 17075 VIA DEL CAMPO, SAN DIEGO, CALIFORNIA 92127, TEL(858)946-0333
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SHIELDING:	MRI SHIELDING CORPORATION, 3554 BUISNESS PARK DR., SUITE B, COSTA MESA, CA 92626, TEL(714)545-7700
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LICENSED ARCHITECT JOSEPH MICHEL SFEIR No. C28543 REN. 1-31-23 STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER NATHAN K. BUCK S.6107 STRUCTURAL STATE OF CALIFORNIA

REV.	DESCRIPTION	DATE
1	OSHPD COMMENTS	8/3/2020
2	DESIGN CHANGES	8/10/2020
3	OSHPD COMMENTS	10/2/2020
4	OSHPD COMMENTS	11/24/2020
5	DESIGN CHANGES	1/14/2020
6	ACD 0001 DESIGN CHANGES	4/10/2021
7	ACD 0001 DESIGN CHANGES	5/8/2021

CONSULTANT

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OSHPD APPROVAL STAMP:
OSHPD #: S200813-37-00-ACD0001

SHEET TITLE:
SECOND FLOOR FRAMING PLAN - WEST

PROJECT TITLE:
TCMC MRI

PROJECT #: 01907.01
DRAWN BY:
CHECKED BY:
SCALE: PER TITLE
DATE: 3/11/2020
SHEET NUMBER: S2-20

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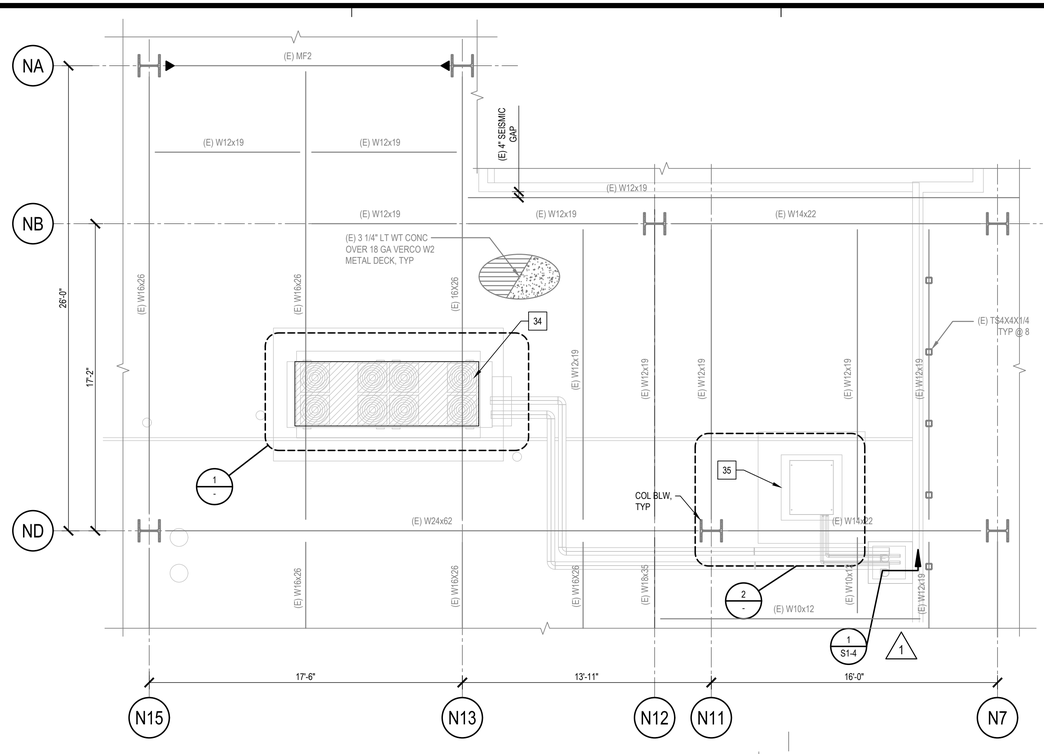
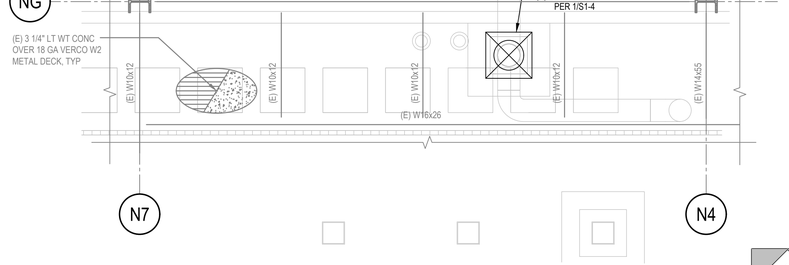
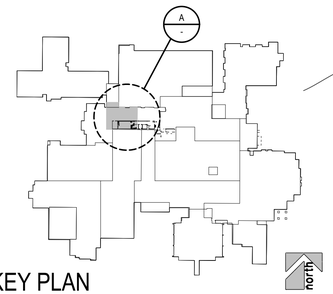




NOTES:
1. SEE S2-20 FOR FRAMING PLAN NOTES AND LEGEND

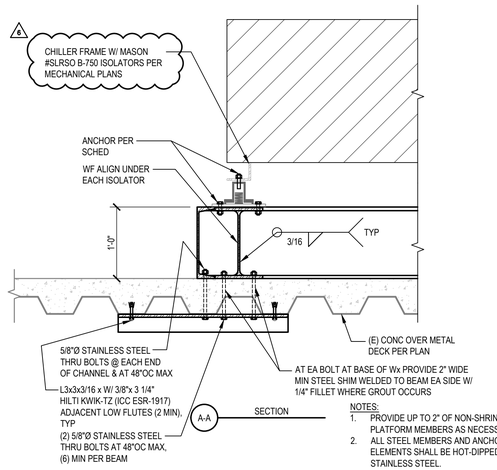
A 2ND FLOOR ROOF FRAMING PLAN

1/4" = 1'-0"



KEY PLAN

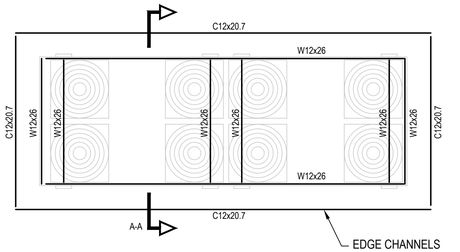
N.T.S.



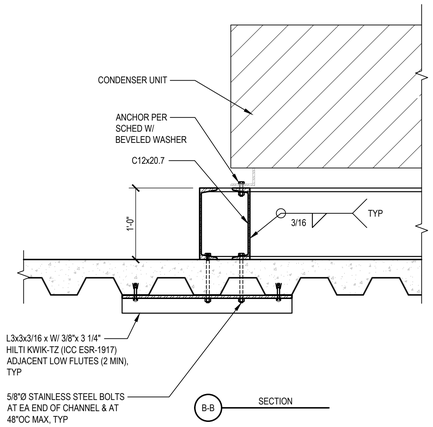
NOTES:
1. PROVIDE UP TO 2" OF NON-SHRINK GROUT BENEATH PLATFORM MEMBERS AS NECESSARY FOR LEVELING
2. ALL STEEL MEMBERS AND ANCHORS EXPOSED TO ELEMENTS SHALL BE HOT-DIPPED GALVANIZED OR STAINLESS STEEL.

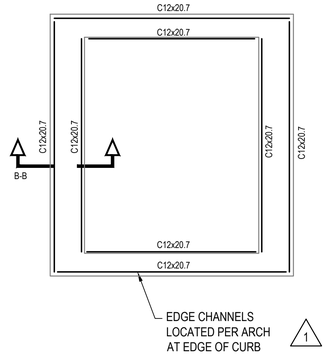
1 CHILLER PLATFORM

NTS



CHILLER PLATFORM FRAMING PLAN





CONDENSER PLATFORM FRAMING PLAN

NOTES:
1. PROVIDE UP TO 2" OF NON-SHRINK GROUT BENEATH PLATFORM MEMBERS AS NECESSARY FOR LEVELING
2. ALL STEEL MEMBERS AND ANCHORS EXPOSED TO ELEMENTS SHALL BE HOT-DIPPED GALVANIZED OR STAINLESS STEEL.

2 CONDENSER PLATFORM

NTS

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INTERIORS:	ISLEY DESIGN & PLANNING 1982 PALSERO AVENUE ESCONDIDO, CA 92029 TEL(760)484-0455

LICENSED ARCHITECT JOSEPH MICHAEL SFEIR No. C28543 REN. 1-31-23 STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER JONATHAN K. BUDLONG S-6407 STRUCTURAL STATE OF CALIFORNIA

1	1	OSHPD COMMENTS	8/3/2020
2	2	DESIGN CHANGES	8/10/2020
3	3	OSHPD COMMENTS	10/2/2020
4	4	OSHPD COMMENTS	11/24/2020
5	5	DESIGN CHANGES	12/24/2020
6	6	ACD 2001 DESIGN CHANGES	4/12/2021
7	7	ACD 2001 DESIGN CHANGES	5/8/2021

REV: DESCRIPTION: DATE:

CONSULTANT:

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OSHPD APPROVAL STAMP:

OSHPD #: S20081-37-00-ACD0001

SHEET TITLE:

2ND FLOOR ROOF FRAMING PLAN

PROJECT TITLE:

TCMC MRI

PROJECT #: 01907.01
DRAWN BY:
CHECKED BY:
SCALE: PER TITLE
DATE: 3/11/2020

SHEET NUMBER:

S2-30

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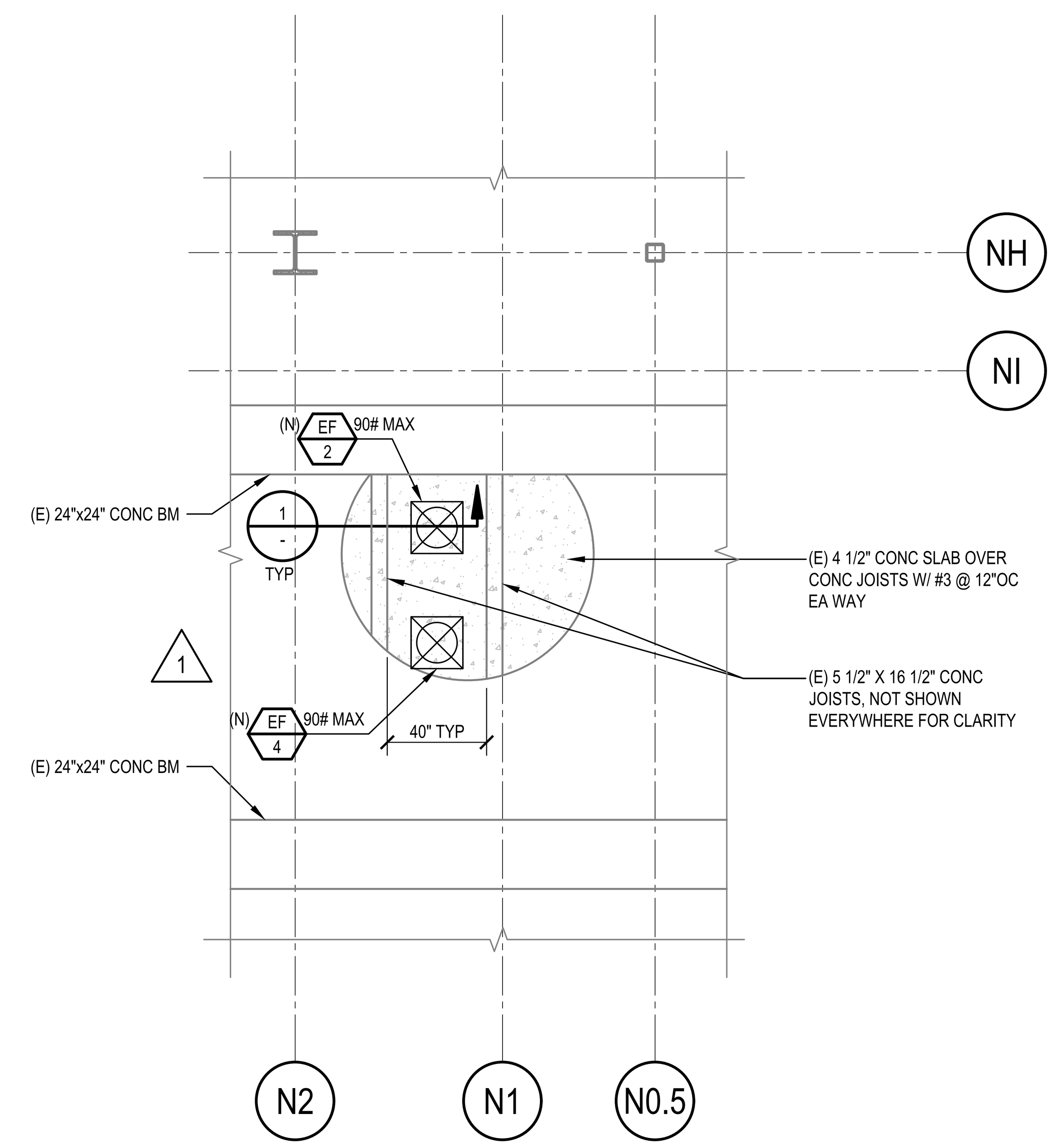
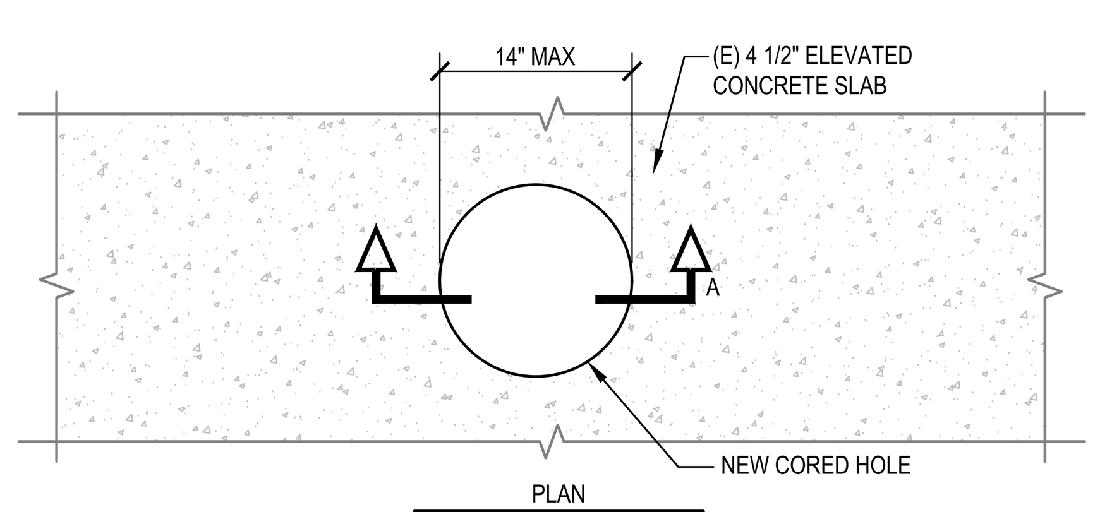
NOTES:
1. SEE S2-20 FOR FRAMING PLAN NOTES AND LEGEND.

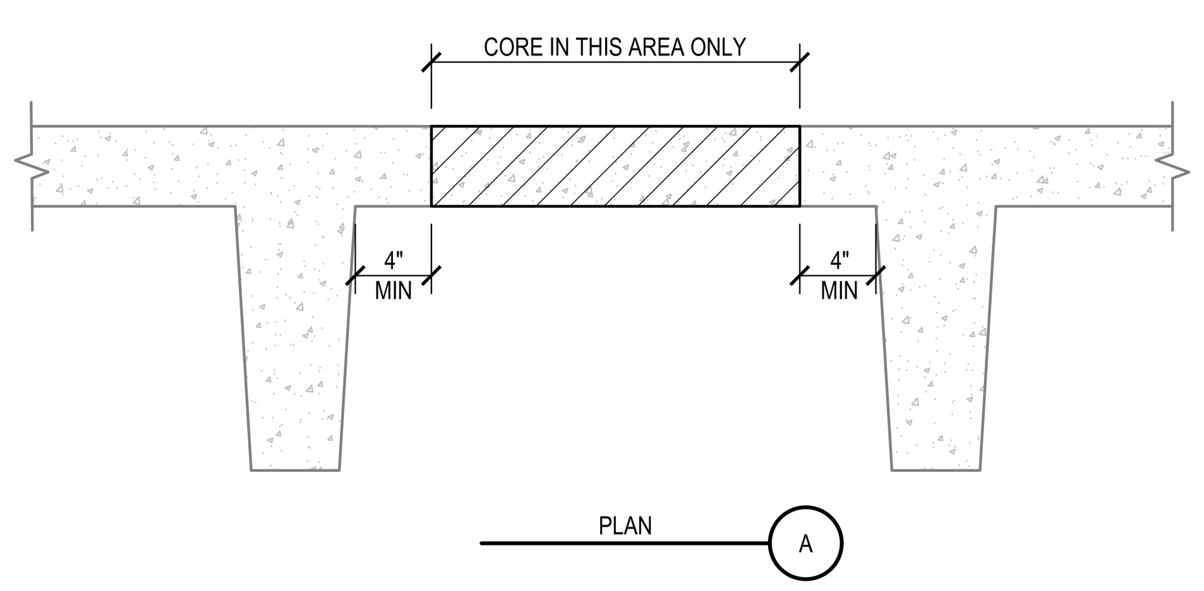


A LOWER ROOF FRAMING PLAN

1/4" = 1'-0"

north

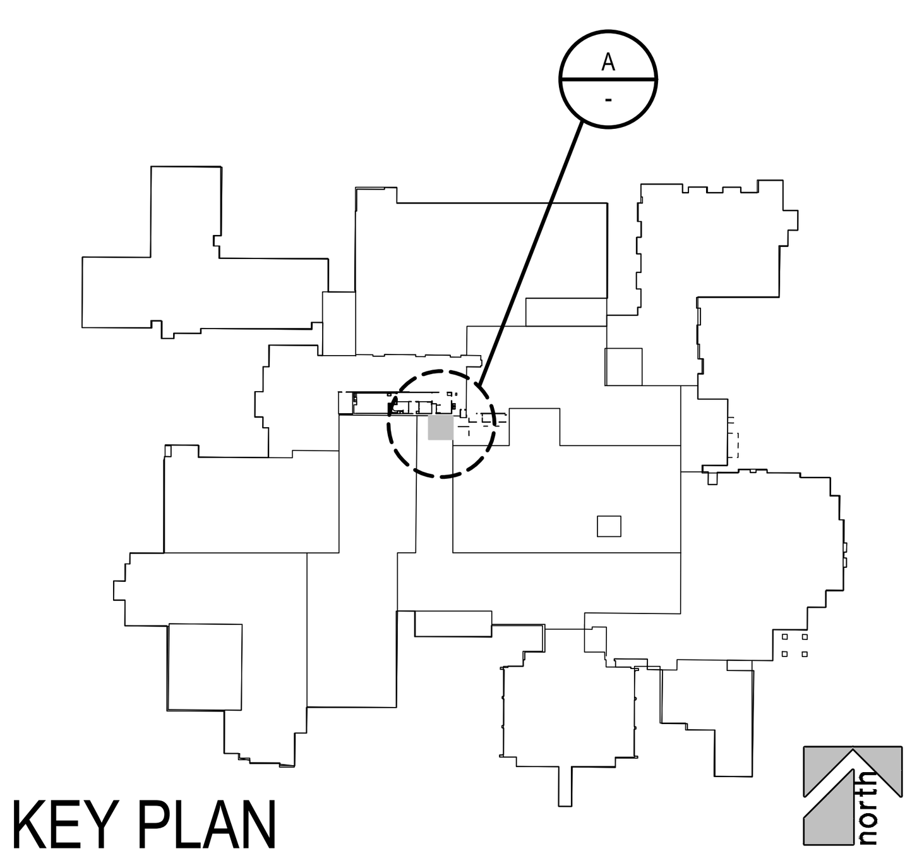




1 (N) PENETRATION IN (E) SLAB

NTS

DET003



KEY PLAN

N.T.S.

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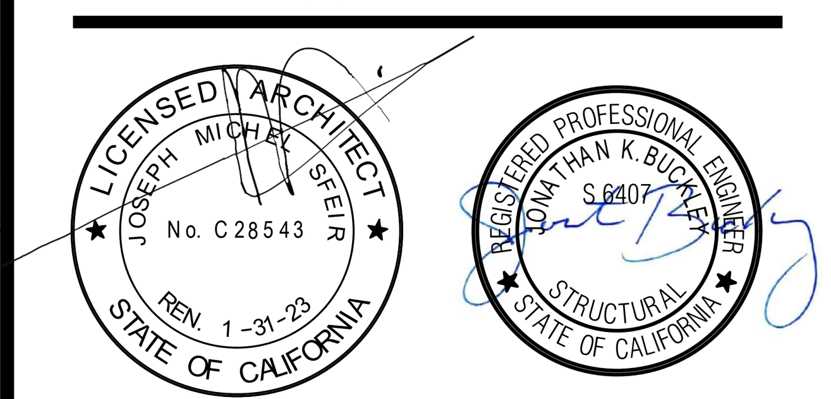

REV:	DESCRIPTION:	DATE:
1	OSHPD COMMENTS	8/3/2020
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3	OSHPD COMMENTS	10/2/2020
4	OSHPD COMMENTS	11/24/2020
5	DESIGN CHANGES	11/24/2020
6	ACD 0001 DESIGN CHANGES	4/10/2021
7	ACD 0001 DESIGN CHANGES	5/8/2021

CONSULTANT

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OSHPD APPROVAL STAMP:

OSHPD #: S200813-37-00-ACD0001

SHEET TITLE:

LOWER ROOF FRAMING PLAN

PROJECT TITLE:

TCMC MRI

PROJECT #: 01907.01

DRAWN BY:

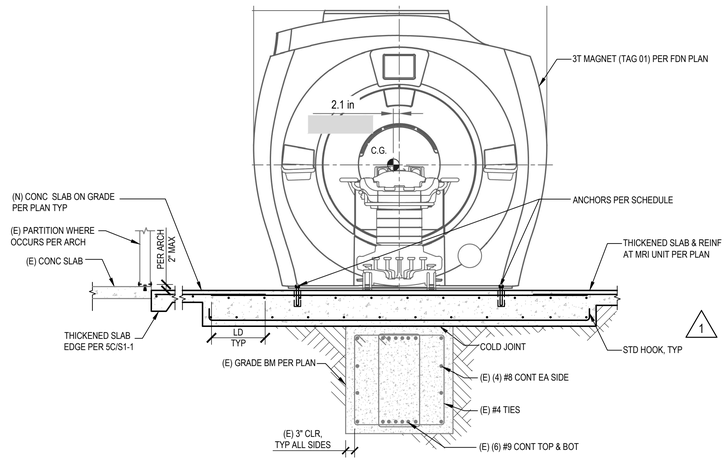
CHECKED BY:

SCALE: PER TITLE

DATE: 3/11/2020

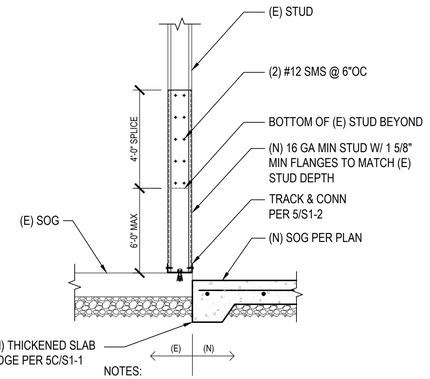
SHEET NUMBER: S2-31

100% - CONSTRUCTION DOCUMENTS



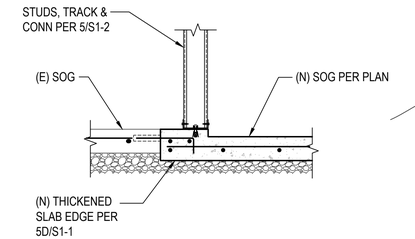
4 MRI SUPPORT DETAIL

NTS



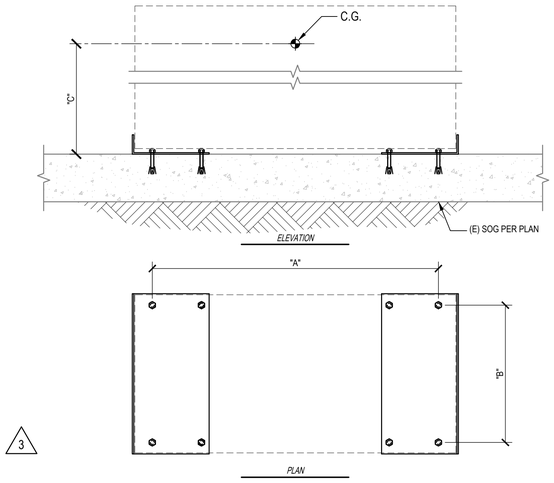
5 EXISTING STUD WALL AT SLAB ON GRADE TRANSITION

NTS



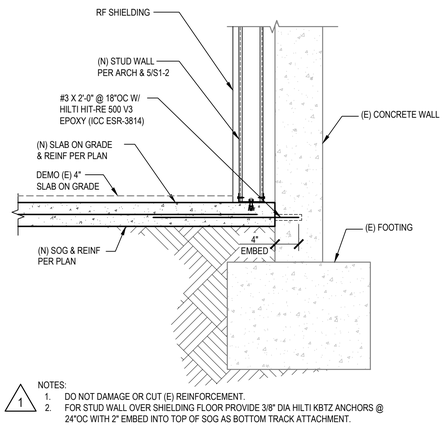
2 NEW STUD WALL AT SLAB ON GRADE TRANSITION

NTS



6 PYXIS DOUBLE COLUMN EQUIPMENT ANCHORAGE

NTS



3 SLAB ON GRADE AT (E) CONC WALL DETAIL

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INTERIORS:	ISLEY DESIGN & PLANNING 1982 PALSERO AVENUE ESCONDIDO, CA 92029 TEL(760)484-0455

LICENSED ARCHITECT — JOSEPH MICHAEL ISFEIR — No. C 28543 — REN. 1-31-21 — STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER — TIM HAN K. BUCKLEY — S 5607 — STRUCTURAL — STATE OF CALIFORNIA

1	1	OSHPD COMMENTS	8/3/2020
2	2	DESIGN CHANGES	8/10/2020
3	3	OSHPD COMMENTS	10/2/2020
4	4	OSHPD COMMENTS	11/24/2020
5	5	DESIGN CHANGES	11/24/2020
6	6	ACD 2001 DESIGN CHANGES	4/12/2021
7	7	ACD 2001 DESIGN CHANGES	5/8/2021

REV: DESCRIPTION: DATE:

CONSULTANT

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OSHPD APPROVAL STAMP:

OSHPD #: S20813-37-00-ACD0001

SHEET TITLE:

DETAILS

PROJECT TITLE:

TCMC MRI

PROJECT #: 01907.01
DRAWN BY:
CHECKED BY:
SCALE: PER TITLE
DATE: 3/11/2020

SHEET NUMBER:

S3-1

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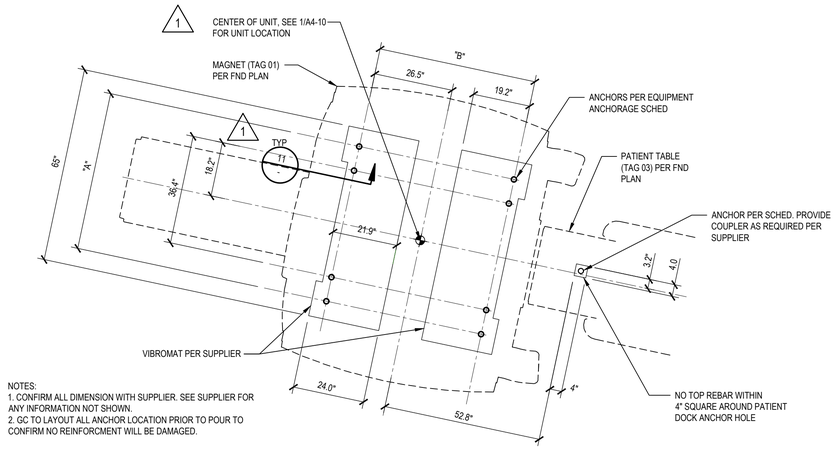
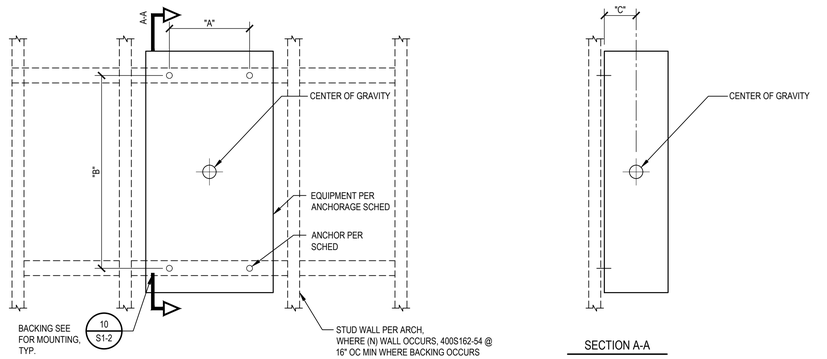


NOTES:
1. CONFIRM ALL DIMENSION WITH SUPPLIER. SEE SUPPLIER FOR ANY INFORMATION NOT SHOWN.
2. GC TO LAYOUT ALL ANCHOR LOCATION PRIOR TO POUR TO CONFIRM NO REINFORCMENT WILL BE DAMAGED.

10 MAGNET AND PATIENT TABLE ENLARGED ANCHORAGE PLAN

1/2"=1'-0"

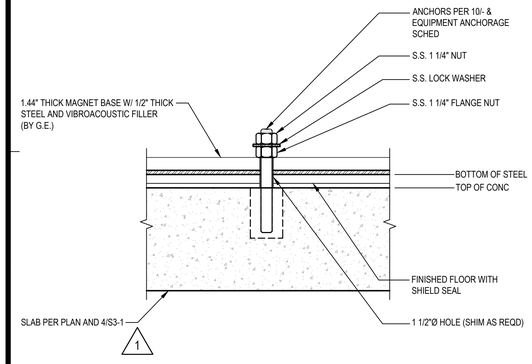


4 WALL MOUNT ANCHORAGE

N.T.S.

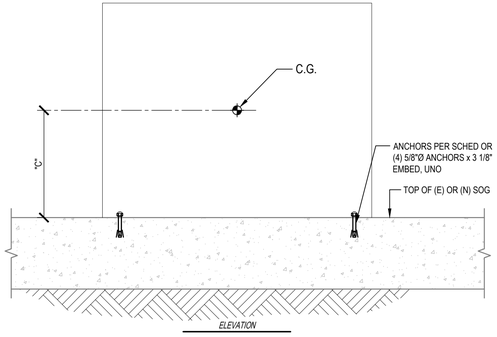
NOTES:

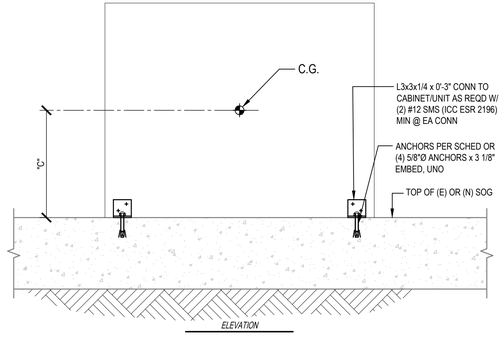
1. PROVIDE LARGER ANGLE AS NECESSARY TO ACCOMMODATE MINIMUM SCREW EDGE DISTANCE OF 1". LARGER ANGLE SHALL BE 1/4" THK MIN WITH ANCHOR LOCATED 1 1/2" FROM VERTICAL LEG.

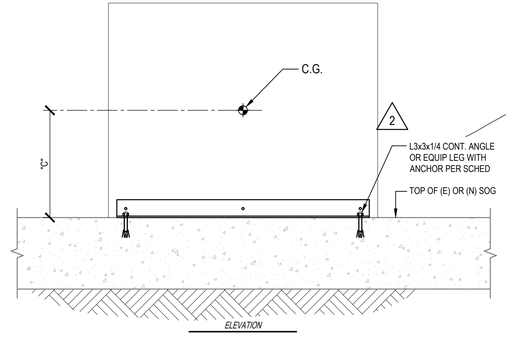


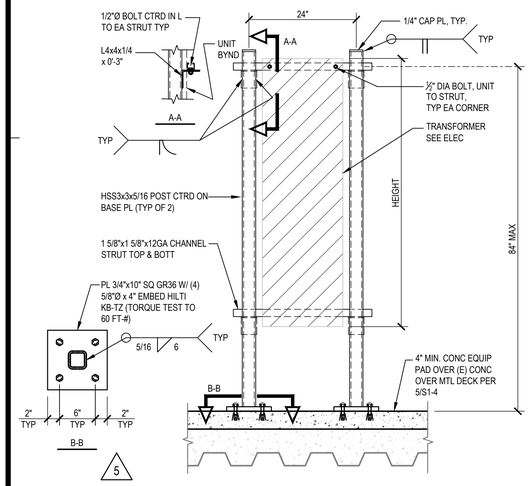
11 MAGNET ANCHORAGE

NTS



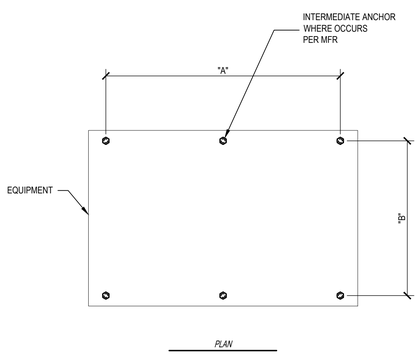






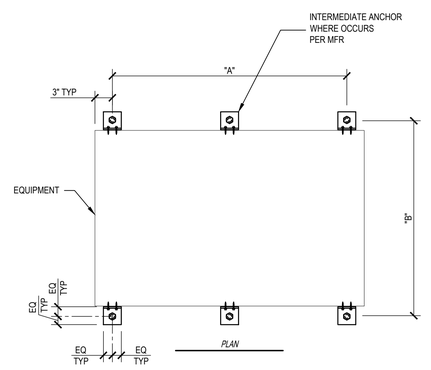
12 ELEC PANEL FREESTANDING SUPPORT FRAME

NTS



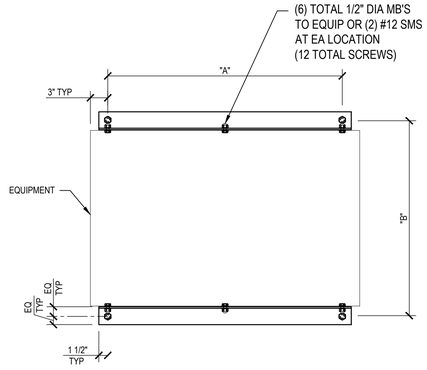
9 FLOOR-MOUNTED EQUIPMENT ANCHORAGE-TYPE 3

NTS



6 FLOOR-MOUNTED EQUIPMENT ANCHORAGE-TYPE 2

NTS



3 FLOOR-MOUNTED EQUIPMENT ANCHORAGE - TYPE 1

NTS

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REGISTERED PROFESSIONAL ENGINEER JONATHAN K. BUDLONG S-6107 STRUCTURAL STATE OF CALIFORNIA

REV.	DESCRIPTION:	DATE:
1	OSHPD COMMENTS	8/3/2020
2	DESIGN CHANGES	8/10/2020
3	OSHPD COMMENTS	10/2/2020
4	OSHPD COMMENTS	11/24/2020
5	DESIGN CHANGES	12/4/2020
6	ACD 2001 DESIGN CHANGES	4/12/2021
7	ACD 3001 DESIGN CHANGES	5/8/2021

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OSHPD APPROVAL STAMP:

OSHPD #: S200813-37-00-ACD0001

SHEET TITLE:

FRAMING DETAILS

PROJECT TITLE:

TCMC MRI

PROJECT #: 01907.01
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CHECKED BY:
SCALE: PER TITLE
DATE: 3/11/2020

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S4-1

100% - CONSTRUCTION DOCUMENTS

MECHANICAL ABBREVIATIONS

ABBREV.	DESCRIPTION
A	
A/E	ARCHITECT / ENGINEER
AAV	AUTOMATIC AIR VENT
ABV	ABOVE
ACD	AUTOMATIC CONTROL DAMPER, MODULATING
ACH	AIR CHANGE RATE PER HOUR
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
AFMS	AIR FLOW MEASURING STATION
AHU	AIR-HANDLING UNIT
AMP	AMPERE
AP	ACCESS PANEL
APD	AIR PRESSURE DROP
ARI	AIR CONDITIONING AND REFRIGERATING INSTITUTE
AS	AIR SEPARATOR
ASHRAE	AMERICAN SOCIETY OF HEATING REFRIGERATING AND AIR CONDITIONING ENGINEERS
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
B	
BDD	BACKDRAFT DAMPER
BHP	BRAKE HORSEPOWER
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNIT PER HOUR
C	
CAV	CONSTANT AIR VOLUME
CC	COOLING COIL
CD	CEILING DIFFUSER
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CG	CEILING GRILLE
CH	CHILLER
CHP	CHILLED WATER PUMP
CHW	CHILLED WATER
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CO	CARBON MONOXIDE
CO2	CARBON DIOXODE
COP	COEFFICIENT OF PERFORMANCE
CR	CEILING REGISTER
CU	CONDENSING UNIT
CV	CONSTANT VOLUME
D	
DB	DRY-BULB TEMPERATURE
DB	DECIBELS
DCW	DOMESTIC COLD WATER
DDC	DIRECT DIGITAL CONTROLS
DEG	DEGREE
DF	DIFFUSER
DIA	DIAMETER
DN	DOWN
DP	DEW POINT TEMPERATURE
DX	DIRECT EXPANSION
E	
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EER	ENERGY EFFICIENCY RATIO
EF	EXHAUST FAN
EFF	EFFICIENCY
EG	EXHAUST GRILLE
EJ	EXPANSION JOINT
ENT	ENTERING
ER	EXHAUST REGISTER
ESP	EXTERNAL STATIC PRESSURE
ET	EXPANSION TANK
EWT	ENTERING WATER TEMPERATURE
(E)	EXISTING

ABBREV.	DESCRIPTION
F	
F	DEGREES FAHRENHEIT
FC	FLEXIBLE CONNECTION
FC	FAN COIL
FD	FIRE DAMPER
FF	FINISHED FLOOR
FM	FLOW METER
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FS	FLOW SWITCH
FT	FEET
FT WC	FEET OF WATER COLUMN
G	
GA	GAUGE
GAL	GALLONS
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
H	
H	HUMIDIFIER
HC	HEATING COIL
HG	HEIGHT
HP	HORSEPOWER
HHWR	HEATING HOT WATER RETURN
HHWS	HEATING HOT WATER SUPPLY
HZ	HERTZ
I	
I/O	INPUT/OUTPUT
IAQ	INDOOR AIR QUALITY
ID	INSIDE DIAMETER
IN	INCHES
IN HG	INCHES OF MERCURY
IN WC	INCH WATER COLUMN
IN WG	INCH WATER GAUGE
IN-LB	INCH-POUND
K	
KW	KILOWATT
L	
LAT	LEAVING AIR TEMPERATURE
LBS/HR	POUNDS PER HOUR
LVG	LEAVING
LWT	LEAVING WATER TEMPERATURE
M	
MA	MIXED AIR
MAT	MIXED AIR TEMPERATURE
MAX	MAXIMUM
MBH	1,000 BTUH
MCA	MINIMUM BRANCH CIRCUIT AMPACITY
MEOR	MECHANICAL ENGINEER OF RECORD
MERV	MIN EFFICIENCY REPORTING VALUE
MFR	MANUFACTURER
MIN	MINIMUM
MVD	MANUAL VOLUME DAMPER
N	
NA	NOT APPLICABLE
NC	NOISE CRITERIA
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NPSH	NET POSITIVE SUCTION HEAD
NTS	NOT TO SCALE
O	
OBD	OPPOSED BLADE DAMPER
OD	OUTSIDE DIAMETER
OSA	OUTSIDE AIR

ABBREV.	DESCRIPTION
Q	
QTY	QUANTITY
R	
RA	RETURN AIR
RC	REHEAT COIL
S	
SA	SUPPLY AIR
SAT	SUPPLY AIR TEMPERATURE
SD	SMOKE DETECTOR
SDPR	SMOKE DAMPER
SEN	SENSIBLE HEAT
SF	SUPPLY FAN
SI	SQUARE INCHES
SP	STATIC PRESSURE
SPS	STATIC PRESSURE SENSOR
SQ FT	SQUARE FOOT (FEET)
SS	STAINLESS STEEL
T	
T&PCV	TEMPERATURE AND PRESSURE CONTROL VALVE
TAB	TESTING, ADJUSTING AND BALANCING
TD	TEMPERATURE DIFFERENCE
TG	TRANSFER GRILLE
THRU	THROUGH
TP	TRAP
TSP	TOTAL STATIC PRESSURE
TYP	TYPICAL
U	
UC	UNDER CUT
UNO	UNLESS OTHERWISE NOTED
UTR	UP THROUGH ROOF
V	
V	VALVE
VAV	VARIABLE AIR VOLUME
VFD	VARIABLE FREQUENCY DRIVE
W	
W	WATTS
WB	WET-BULB (TEMPERATURE)
WG	WATER GAGE

MECHANICAL LEGEND

SYMBOL	ABBREV.	DESCRIPTION
		CAPPED LINE
		VALVE IN RISE
		VALVE IN DROP
		PIPE UP (RISE)
		PIPE DN (DROP)
HHWS	HHWS	HEATING HOT WATER SUPPLY
HHWR	HHWR	HEATING HOT WATER RETURN
CHWS	CHWS	CHILLED WATER SUPPLY
CHWR	CHWR	CHILLED WATER RETURN
LPS	LPS	LOW PRESSURE STEAM
	SOV	SHUT-OFF VALVE
	U	UNION
	STR	STRAINER W/ BLOW DOWN VALVE
	FC	FLEXIBLE CONNECTION (PIPE)
	BV	BALANCING VALVE
	CV	CHECK VALVE
	TI	THERMOMETER
	TW	TEST WELL (PETE'S PLUG)
	CV (2W)	CONTROL VALVE (2-WAY)
	CV (3W)	CONTROL VALVE (3-WAY)
	PRV	PRESSURE REDUCING VALVE
	CONT	CONTINUATION
		REMOVE/DEMO EXISTING PIPING
		REMOVE/DEMO EXISTING EQUIPMENT
	POC	POINT OF CONNECTION
	POD	POINT OF DISCONNECT
	CD	CEILING DIFFUSER
	RR	RETURN REGISTER
	ER	EXHAUST REGISTER
H		HUMIDITY SENSOR
T		THERMOSTAT
- CFM	CFM	CUBIC FEET PER MINUTE
- -		SYMBOL, SEE EQUIPMENT SCHEDULE
		PHOTO REFERENCE

SYMBOL	ABBREV.	DESCRIPTION
12"Ø		ROUND DUCT 12 INCH DIAMETER DUCT
		ROUND ELBOW (LONG RADIUS)
		STRAIGHT TEE
	TRANS.	TRANSITION - ROUND TO RECTANGULAR DUCT
	OBD	MANUAL OPPOSED BLADE DAMPER
	EA	EXHAUST DUCT DOWN
	EA	EXHAUST DUCT UP
	SA	SUPPLY AIR DUCT UP
	SA	SUPPLY AIR DUCT DOWN
	FSD	FIRE SMOKE DAMPER
		HVAC EQUIPMENT SEE SCHEDULE
	FLEX. CONN.	FLEXIBLE DUCT CONNECTION
T=3"	T	SPLITTER THROAT SIZE
	SD	SLIDE DAMPER
	TRANS.	TRANSITION RECTANGULAR DUCT
	BD	BALANCING DAMPER WITH LOCKING DEVICE
	RA	RETURN AIR DUCT UP
	RA	RETURN AIR DUCT DOWN
	MVD	MANUAL VOLUME DAMPER
	MOD	MOTOR OPERATED DAMPER
UP		DUCT OFFSET UP IN DIRECTION OF FLOW
DN		DUCT OFFSET DN IN DIRECTION OF FLOW
SD		DUCT MOUNTED SMOKE DETECTOR
24x12		OVAL DUCT DIMENSIONS
A CFM		CEILING SUPPLY DIFFUSER SEE SCHEDULE
		FLEXIBLE DUCTWORK
24x12		RECTANGULAR DUCT DIMENSIONS
B CFM		CEILING RETURN GRILLE SEE SCHEDULE
C CFM		SIDEWALL REGISTER SEE SCHEDULE
D CFM		CEILING EXHAUST GRILLE SEE SCHEDULE
		RECTANGULAR ELBOW (LONG RADIUS)
		SQUARE ELBOW WITH TURNING VANES
		REMOVE/DEMO EXISTING DUCTWORK
		REMOVE/DEMO EXISTING EQUIPMENT

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ELECTRICAL:	AG DESIGN, INC. 171 S. ANITA DR. SUITE 111 ORANGE, CALIFORNIA 92868 TEL(714)769-9900
SHIELDING:	MRI SHIELDING CORPORATION 3554 BUISNESS PARK DR., SUITE B COSTA MESA, CA 92626 TEL(714)545-7700
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REGISTERED PROFESSIONAL ENGINEER FRANK SHADPOUR No. 23923 MECHANICAL EXP. 9-30-21 STATE OF CALIFORNIA

REV:	DESCRIPTION:	DATE:
1	OSHPD COMMENTS	8/3/2020
2	DESIGN CHANGES	8/10/2020
3	OSHPD COMMENTS	10/2/2020
4	OSHPD COMMENTS	11/24/2020
5	DESIGN CHANGES	11/24/2020
6	ACD 0001 DESIGN CHANGES	4/10/2021
7	ACD 0001 DESIGN CHANGES	5/8/2021

CONSULTANT:

Shadpour Consulting Engineers, Inc.

OSHPD APPROVAL STAMP:

OSHPD #: S200813-37-00-ACD0001

SHEET TITLE:

MECHANICAL LEGEND AND ABBREVIATIONS

PROJECT TITLE:

TCMC MRI

PROJECT #: 019907.01
DRAWN BY: SC
CHECKED BY: JC
SCALE: PER TITLE
DATE: 3/11/2020

SHEET NUMBER:

M1-01

100% - CONSTRUCTION DOCUMENTS

GENERAL NOTES

1. THESE DRAWINGS ARE A GENERAL GRAPHIC PRESENTATION OF THE WORK. DUCTWORK, PIPING, AND EQUIPMENT, AS SHOWN, ARE DIAGRAMMATIC. DO NOT SCALE DRAWINGS. PROVIDE ADDITIONAL OFFSETS AND SECTIONS OF DUCTWORK AND PIPING AS REQUIRED TO MEET THE PROJECT REQUIREMENTS.
2. COORDINATE WITH OTHER TRADES. PROVIDE A COMPLETE SET OF SHOP DRAWINGS REFLECTING ACTUAL DIMENSIONS, ACCESS REQUIREMENTS, AND DETAILS BASED UPON THE ACTUAL EQUIPMENT PROCURED. MAINTAIN AN UP TO DATE SET OF AS-BUILT DRAWINGS AT THE JOB SITE.
3. COMPLY WITH APPLICABLE MECHANICAL CODE, PLUMBING CODE, FIRE PROTECTION CODE, AND ALL OTHER GOVERNING CODES. THERE SHALL BE NO EXCEPTION. REPORT DEFICIENCIES WITHIN THIRTY (30) DAYS UPON AUTHORIZATION TO PROCEED.
4. REVIEW ALL DRAWINGS AND SPECIFICATIONS INCLUDING ARCHITECTURAL, STRUCTURAL, CIVIL, MECHANICAL, PLUMBING, FIRE PROTECTION AND ELECTRICAL. ANY QUESTIONS SHALL BE BROUGHT UP, IN WRITING, TO THE ATTENTION OF THE ENGINEER BEFORE THE START OF CONSTRUCTION.
5. PROVIDE ACCESS AND CLEARANCE FOR MAINTENANCE OF MECHANICAL EQUIPMENT AND COMPONENTS AS RECOMMENDED BY EQUIPMENT MANUFACTURER AND APPLICABLE CODES, BUT NO LESS THAN 3 FEET ON ALL SIDES.
6. ALL SEALS, BEARINGS, PACKINGS, AND ACCESSORIES FOR ALL EQUIPMENT AND PIPING SPECIALTIES SHALL BE SUITABLE FOR THE CONTINUOUS OPERATIONAL TEMPERATURES, PRESSURES, AND CHARACTERISTICS OF THE SYSTEMS THEY SERVE.
7. HANDLE, STORE, AND INSTALL EQUIPMENT PER MANUFACTURER'S INSTRUCTIONS.
8. SUPPORT PIPING IN ACCORDANCE WITH ANSI/MSS SP-58 PIPE HANGERS AND SUPPORTS - MATERIALS, DESIGN, MANUFACTURE, SELECTION, APPLICATION, AND INSTALLATION.
9. SUPPORT DUCTWORK IN ACCORDANCE WITH ANSI/SMACNA 006 HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE.
10. BRACE PIPING, EQUIPMENT, DUCTWORK, AND CONDUIT IN ACCORDANCE WITH ISAT DESIGN, INSTALLATION & INSPECTION MANUAL FOR NON-STRUCTURAL SEISMIC BRACING UNLESS THE AUTHORITY HAVING JURISDICTION HAS ADDITIONAL REQUIREMENTS.
11. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF DIFFUSERS, REGISTERS, GRILLES, AND ACCESS PANELS.
12. ALL DUCT DIMENSIONS, AS SHOWN ON MECHANICAL DRAWINGS, ARE CLEAR INSIDE DIMENSIONS.
13. INSULATION AND FLEXIBLE DUCT SHALL COMPLY WITH STATE FIRE MARSHALL CRITERIA AND SHALL NOT EXCEED FLAME SPREAD OF 25 AND SMOKE DEVELOPED OF 50 PER ASTM, NFPA, AND UL.
14. INSULATE PIPING AND DUCTWORK IN ACCORDANCE WITH THE GOVERNING CODES AT A MINIMUM. INSULATE TO PREVENT CONDENSATION.
15. COMMISSION AND START-UP THE MECHANICAL SYSTEMS TO ASSURE A COMPLETE AND OPERATIONAL HVAC SYSTEM IN ACCORDANCE WITH ASHRAE, NEBB, OR AABC.
16. ALL SQUARE ELBOWS IN DUCTWORK SHALL HAVE TURNING VANES. PROVIDE MANUAL VOLUME DAMPER AT EACH BRANCH DUCT TAKE-OFF SERVING EACH AIR TERMINAL DEVICE. PROVIDE BALANCING DAMPERS FOR EACH MAIN DUCT TAKE-OFF IN ACCORDANCE WITH SMACNA IN ORDER TO ASSURE A COMPLETELY BALANCED SYSTEM.
17. FIRE DAMPER ASSEMBLIES, INCLUDING LOCATION, SLEEVES, AND INSTALLATION PROCEDURES, SHALL BE APPROVED BY THE BUILDING INSPECTOR PRIOR TO PROCUREMENT AND INSTALLATION. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF FIRE RATED WALLS AND SMOKE SEPARATIONS.
18. ALL PENETRATIONS THROUGH FIRE RATED CONSTRUCTION SHALL BE FIRE SEALED WITH UL LISTED THROUGH-PENETRATION SEALING SYSTEMS SUITABLE FOR WALL/FLOOR ASSEMBLIES AND PENETRATING MATERIAL.
19. ALL FITLERS TO BE REPLACED AFTER THE FINAL TEST AND BALANCE.
20. ADJUSTABLE SHEAVES ON AHU FAN PULLEYS TO FACILITATE STATIC PRESSURE ADJUSTMENTS AT TEST AND BALANCE.

SHOP DRAWING NOTES

1. PROCEED WITH THE PREPARATION OF COMPREHENSIVE THREE DIMENSIONAL (3D) SHOP DRAWINGS UPON RECEIPT OF AN AUTHORIZATION TO PROCEED FOR THE PROJECT. SHOP DRAWINGS SHALL BE ORIGINALLY PREPARED BY THE CONTRACTOR. PROVIDE MINIMUM 1/4" = 1'-0" SCALE FLOOR PLANS IN ADDITION TO THE SHOP DRAWINGS COMPLETED WITHIN A 3D MODEL IN REVIT, AUTOCAD, NAVISWORKS, OR SIMILAR PROGRAM. SUBMIT A COMPLETE AND COMPREHENSIVE SET OF SHOP DRAWINGS IN ONE PACKAGE WITHIN 60 DAYS OF CONTRACT AWARD AND PRIOR TO MATERIAL FABRICATION, ORDER, AND INSTALLATION. SHOP DRAWINGS SHALL INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:
   - A. ARCHITECTURAL, STRUCTURAL, ELECTRICAL, PLUMBING, AND OTHER WORK SPECIFIED OUTSIDE DIVISION 23.
   - B. DUCT AND PIPE (MECHANICAL AND PLUMBING) ELEVATIONS.
   - C. DIMENSIONS OF EQUIPMENT TO BE PURCHASED.
   - D. HANGERS AND SUPPORTS, INCLUDING METHODS FOR DUCT AND BUILDING ATTACHMENT, SEISMIC RESTRAINTS, AND VIBRATION ISOLATION.
   - E. ACCESS PANELS INCLUDING CEILING PANELS.
   - F. ACCESS CLEARANCES FOR EQUIPMENT.
   - G. LOCATIONS OF DIFFUSERS, REGISTERS, AND GRILLES.
   - H. LOCATIONS OF MANUAL VOLUME DAMPERS INCLUDING EXTRACTORS AND SPLITTERS.
   - I. LOCATIONS OF STRUCTURAL PENETRATIONS SUCH AS BEAMS.
   - J. LOCATION OF CONTROL PANELS AND POWER CONNECTIONS TO EQUIPMENT.
   - K. COLOR CODED DESIGNATION FOR DUCT AND PIPING BASED UPON MATERIAL USED AND STATIC PRESSURE RATING.
   - L. LABEL AND TAG SCHEDULE FOR EQUIPMENT.
   - M. DUCT AND PIPING OFF-SETS AND TRANSITIONS TO CLEAR BUILDING ARCHITECTURE, STRUCTURE, ELECTRICAL, FIRE PROTECTION, OR OTHER TIGHT OR CONGESTED AREAS.
   - N. EXISTING BUILDING UTILITIES BEING RELOCATED TO ACCOMMODATE DESIGN.
   - O. ROOM TEMPERATURE AND OTHER SIMILAR SENSOR LOCATIONS.
   - P. POINT OF CONNECTION TO UTILITIES OUTSIDE THE BUILDING.
   - Q. GRIDLINES.
2. COORDINATE WITH OTHER TRADES AND EXISTING CONDITIONS.
3. INCLUDE SIGNATURES ON THE SHOP DRAWINGS FROM ALL APPLICABLE TRADES CONFIRMING ALL COORDINATION HAS OCCURRED AND THE SUBMITTED SHOP DRAWINGS ARE FREE OF CONFLICTS.
4. SUBMIT A CLASH DETECTION LOG FROM THE SOFTWARE UTILIZED INDICATING THERE ARE NO CLASHES.
5. SHOP DRAWINGS SHALL BE REVIEWED AND APPROVED BY THE COMMISSIONING AUTHORITY PRIOR TO SUBMITTAL TO ASSURE DESIGN INTENT IS MET AND PROPER COORDINATION IS MAINTAINED.
6. PRIOR TO FABRICATION AND UPON RECEIVING APPROVAL FROM COMMISSIONING AUTHORITY, SUBMIT A FINAL SET OF SHOP DRAWINGS.

OSHPD NOTES

1. THE INTENT OF THE CONSTRUCTION DOCUMENTS IS TO RECONSTRUCT THE HOSPITAL BUILDING IN ACCORDANCE WITH THE MOST CURRENT CBSC. SHOULD ANY CONDITION DEVELOP NOT COVERED BY THE APPROVED CONSTRUCTION DOCUMENTS, WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH THE MOST CURRENT CBSC, AMENDED CONSTRUCTION DOCUMENTS (ACDS) DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY OSHPD BEFORE PROCEEDING WITH THE WORK.
2. SUPPORTS AND ATTACHMENTS OF ALL EQUIPMENT TO BE INSTALLED AS A PART OF THIS PROJECT SHALL BE DETAILED ON CONSTRUCTION DOCUMENTS, EXCEPT THOSE EXEMPT BY THE MOST CURRENT CBC. EQUIPMENT SUPPORTS AND ATTACHMENTS SHALL BE APPROVED BY THE APPROPRIATE REGISTERED DESIGN PROFESSIONAL (RDP) OF RECORD AND OSHPD AS A PART OF FIELD REVIEWS/OBSERVATIONS. THE INSPECTOR OF RECORD (IOR) SHALL ASSURE THAT THE ABOVE REQUIREMENTS ARE ENFORCED.
3. PRE-APPROVED PIPES, DUCTS, AND CONDUITS SEISMIC BRACING: ATTACHMENTS, AND BRACING SYSTEMS IN ACCORDANCE WITH THE PRE-APPROVAL SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER OF RECORD (SEOR) / REGISTERED DESIGN PROFESSIONAL (RDP) IN RESPONSIBLE CHARGE OF THE PROJECT FOR REVIEW TO VERIFY THAT THE DETAILS ARE IN CONFORMANCE WITH THE CBC.
   - A. THE SEOR SHALL VERIFY THAT THE SUPPORTIVE STRUCTURE IS ADEQUATE FOR THE FORCES IMPOSED ON IT BY THE SUPPORTS, ATTACHMENTS AND BRACES INSTALLED IN ACCORDANCE WITH THE PRE-APPROVAL IN ADDITION TO ALL OTHER LOADS.
   - B. THE SEOR SHALL FORWARD THE SUPPORTS, ATTACHMENTS, AND BRACING DRAWINGS (INCLUDING CONSTRUCTION DOCUMENTS FOR SUPPLEMENTARY FRAMING, WHERE REQUIRED) TO THE RDP IN RESPONSIBLE CHARGE WITH A NOTATION INDICATING THAT THE DRAWINGS HAVE BEEN REVIEWED AND ARE IN GENERAL CONFORMANCE WITH THE PRE-APPROVAL AND THE DESIGN OF THE PROJECT.
   - C. A REVIEW STAMP SHALL BE PERMITTED TO BE USED, BY THE SEOR, TO INDICATE COMPLIANCE WITH THIS REQUIREMENT.
4. VERIFY THAT SUBMITTAL IS WITHIN THE SCOPE OF OSHPD PRE-APPROVAL OF MANUFACTURER'S CERTIFICATION (OPM) WITH REGARD TO SIZE OF DISTRIBUTION SYSTEM COMPONENTS, SPACING OF BRACING AND FLEX, AND JOINT SUBSTRATE FOR ATTACHMENTS.
5. THE LAYOUT DRAWINGS, WITH THE REVIEW STAMP, SHALL BE KEPT ON THE JOBSITE TO BE USED FOR INSTALLATION OF THE SUPPORT AND BRACING.
6. THE APPROVED AGENCY/INSPECTOR OF RECORD SHALL PROVIDE INSPECTION IN ACCORDANCE WITH THE CBC.
7. OSHPD FIELD STAFF WILL REVIEW/INSPECT THE INSTALLATION IN ACCORDANCE WITH THE CAC.
8. A COPY OF THE BRACING SYSTEM(S) INSTALLATION GUIDE/OPM MANUAL SHALL BE ON THE JOBSITE PRIOR TO STARTING THE INSTALLATION OF HANGERS AND/OR BRACES. THE APPROVED AGENCY/INSPECTOR SHALL MAINTAIN AN APPROVED COPY OF THE OPM (OBTAINED FROM THE OSHPD WEBSITE) IN ACCORDANCE WITH THE CAC.
9. COMPONENTS OF TWO OR MORE PRE-APPROVED BRACING SYSTEMS SHALL NOT BE MIXED. ONLY ONE PRE-APPROVED BRACING SYSTEM MAY BE USED FOR A RUN OF PIPE, DUCT, OR RACEWAY. ANY SUBSTITUTION OF A COMPONENT OF AN OPM SYSTEM SHALL REQUIRE OSHPD REVIEW AND APPROVAL.
10. EXPANSION ANCHORS: ALL POST INSTALLED CONCRETE ANCHORS SHALL MEET REQUIREMENTS OF THE MOST CURRENT CBC, AND BE INSTALLED PER THEIR ICC ESR REPORT. THE SPECIAL INSPECTOR SHALL BE ON THE JOBSITE CONTINUOUSLY DURING ANCHOR INSTALLATION, UNLESS OTHERWISE NOTED IN THE ICC ESR. EXPANSION ANCHORS TO BE TESTED PER THE REQUIREMENTS SPECIFIED IN THE MOST CURRENT CBC.
11. BRACE PIPES, DUCTWORK, AND CONDUIT IN ACCORDANCE WITH ONE OF THE FOLLOWING PRE-APPROVED BRACING SYSTEMS. COMPONENTS OF TWO OR MORE PRE-APPROVED BRACING SYSTEMS SHALL NOT BE MIXED:
   - A. OPM-0043-13 MASON WEST SEISMIC RESTRAINT GUIDELINES FOR SUSPENDED DISTRIBUTION SYSTEMS.
   - B. OPM-0403-13 ISAT SEISMIC RESTRAINT GUIDELINES

SHEET INDEX

PROJECT NOTES

1. FIELD VERIFY ALL EXISTING CONDITIONS INCLUDING STRUCTURAL, MECHANICAL, PLUMBING, ELECTRICAL, EQUIPMENT, AND ALL OTHER EXISTING SYSTEMS. MAKE NECESSARY PROVISIONS TO MAINTAIN THE INTEGRITY OF SYSTEMS PRIOR TO THE COMMENCEMENT OF DEMOLITION.
2. COORDINATE PHASING OF ALL DEMOLITION AND NEW WORK WITH OTHER TRADES. REVIEW RENOVATION DRAWINGS TO VERIFY AND DETERMINE EXTENT OF, AND SCHEDULING FOR, ALL DEMOLITION PRIOR TO PERFORMING ANY WORK.
3. FOR RENOVATION WORK, FIELD VERIFY ALL SIZES, LOCATIONS, AND ROUTING OF EXISTING ITEMS TO REMAIN, AND OF NEW WORK INDICATED ON THE PLANS. NOTIFY THE DESIGN AUTHORITY OF ANY DEVIATIONS WHICH MAY AFFECT RENOVATION WORK OR SYSTEM OPERATION PRIOR TO PROCEEDING WITH THE WORK.
4. OWNER TO REPAIR DUCT LEAKS IN AH-1 PRIOR TO START OF THIS PROJECT.

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TCMC MRI

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LICENSED ARCHITECT — JOSEPH MICHAEL SFEIR — No. C 28543 — REN. 1-31-23 — STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER — FRANK SHADPOUR — No. 43923 — MECHANICAL — EXP. 9-30-21 — STATE OF CALIFORNIA

REV:	DESCRIPTION:	DATE:
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2	DESIGN CHANGES	8/10/2020
3	OSHPD COMMENTS	10/2/2020
4	OSHPD COMMENTS	11/24/2020
5	DESIGN CHANGES	11/24/2020
6	ACD 0001 DESIGN CHANGES	4/10/2021
7	ACD 0001 DESIGN CHANGES	5/8/2021

CONSULTANT

Shadpour Consulting Engineers, Inc.

OSHPD APPROVAL STAMP:

OSHPD #: S200813-37-00-ACD0001

SHEET TITLE:

MECHANICAL GENERAL NOTES

PROJECT TITLE:

TCMC MRI

PROJECT #: 01907.01
DRAWN BY: SC
CHECKED BY: JC
SCALE: PER TITLE
DATE: 3/11/2020

SHEET NUMBER: M1-02

100% - CONSTRUCTION DOCUMENTS

MECHANICAL PHASE 1

PHASE 1 MECHANICAL: PRE-TESTING

1. AH-1 SYSTEM: PRIOR TO COMMENCEMENT OF CONSTRUCTION, PROVIDE THE FOLLOWING TEST DATA FOR AH-1:
   - 1.1. SUPPLY FAN HP, AMPS, RPM,MOTOR SIZE, AND MODEL NUMBER.
   - 1.2. RETURN FAN HP, AMPS, RPM, MOTOR SIZE, AND MODEL NUMBER.
   - 1.3. MAIN OUTSIDE AIR DUCT TRAVERSE AT AH-1 AT MINIMUM POSITION. CONFIRM OUTSIDE AIR IS MINIMUM 26% OF THE SUPPLY AIR
   - 1.4. TOTAL AND EXTERNAL STATIC PRESSURE.
   - 1.5. EXISTING AIRFLOW QUANTITIES FOR AS INDICATED ON DRAWINGS.

2. EF-1 SYSTEM: PRIOR TO COMMENCEMENT OF CONSTRUCTION, PROVIDE THE FOLLOWING TEST DATA FOR EF-1:
   - 2.1. EXHAUST FAN HP, AMPS, RPM, MOTOR SIZE, AND MODEL NUMBER.
   - 2.2. EXTERNAL STATIC PRESSURE.

3. COORDINATION: COORDINATE WITH ARCHITECTURAL PHASING PLANS AND OTHER TRADES.

GENERAL PHASING NOTES

THE FOLLOWING IS INTENDED AS A CONCEPTUAL PHASING PLAN AND IDENTIFIES THE CRITICAL STEPS REQUIRED TO BE COMPLETED. THE PHASES ARE NOT INTENDED TO BE AN ALL INCLUSIVE LIST. THE INTENT IS TO FOLLOW THE OVERALL PHASING PLAN OF THE PROJECT WITH AREAS SERVED BY AH-1 ARE TO REMAIN IN OPERATION. A COMPLETE DETAILED PHASING PLAN SHALL BE COMPLETED WITHIN 30 DAYS OF NOTICE TO PROCEED. THE PHASING PLAN SHALL IDENTIFY ALL ACTIVITIES REQUIRED TO PERFORM THE WORK AND SHALL INCLUDE AT A MINIMUM; SCHEDULE, UTILITY SERVE INTERRUPTIONS, TEMPORARY SERVICE REQUIREMENTS, PRODUCT PROCUREMENT, INSTALLATION AND SKETCHED TO INDICATE EACH STEP. THE PHASING PLAN WILL REQUIRE APPROVAL BY THE OWNER AND MEOR PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES: THE FOLLOWING ARE OVERALL CRITICAL STEPS OF THE MECHANICAL AND PLUMBING SYSTEMS INSTALLATION.

1. PERFORM PRE-TEST READINGS AS INDICATED ON M1-03.
2. INSTALL MECHANICAL PIPING AND TEMPORARY DUCTWORK REQUIRED TO KEEP AREAS OUTSIDE SCOPE OF WORK OPERATIONAL.
3. DEMOLISH MECHANICAL AND PLUMBING SYSTEMS AS INDICATED IN MECHANICAL DEMOLITION PLANS. CONNECT MECHANICAL PIPING AND TEMPORARY DUCTWORK. BALANCE TO PRE-TEST READINGS.
4. INSTALL MECHANICAL COMPONENTS REQUIRED TO KEEP AREAS OUTSIDE SCOPE OF WORK OPERATIONAL.
5. REMOVE TEMPORARY SYSTEMS.
6. INSTALL REMAINING MECHANICAL PLUMBING SYSTEMS PER CONTRACT DRAWINGS. PERFORM FINAL TEST AND BALANCE.

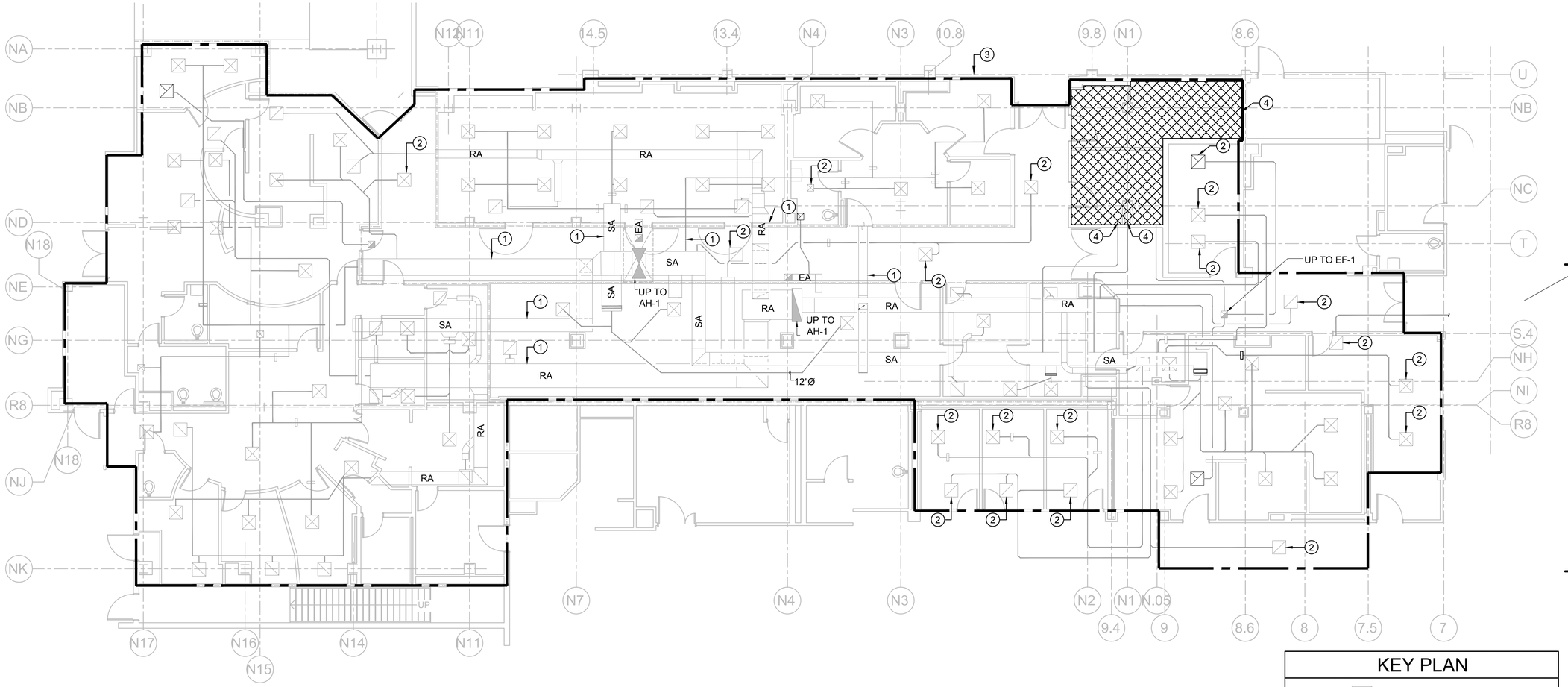
GENERAL NOTES

1. EXISTING CONDITIONS SHOWN ARE BASED ON AVAILABLE AS-BUILT DRAWINGS AND LIMITED NON-DESTRUCTIVE SITE SURVEYS. VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION ACTIVITIES AND NOTIFY THE OWNER OF ANY CONDITIONS THAT DIFFER.

2. UTILITY SERVICES TO THE BUILDING SHALL NOT BE INTERRUPTED UNLESS APPROVED BY THE OWNER. PROVIDE MINIMUM 2 WEEK NOTIFICATION IN ADVANCE OF UTILITY OUTAGES.

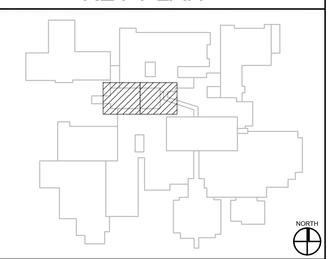
KEY NOTES

1. MEASURE, RECORD AND SUBMIT AIR VOLUME AND STATIC PRESSURE AT LOCATION INDICATED TO OWNER. PROVIDE MANUAL VOLUME DAMPERS AS REQUIRED TO REBALANCE AIRFLOW. REFER TO PHASING PLANS FOR DETAILS.
2. MEASURE, RECORD AND SUBMIT DIFFUSER/GRILLE CFM VALUES TO OWNER.
3. AREA SERVED BY (E)AHU-1.
4. MEASURE, RECORD AND SUBMIT DIFFUSER/GRILLE CFM VALUES ASSOSIATED WITH (AHU-1).



1 MECHANICAL PHASING PLAN - PHASE 1
SCALE: 1/8" = 1'-0"

KEY PLAN



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REGISTERED PROFESSIONAL ENGINEER — FRANK SHADPOUR — No. 23923 — MECHANICAL — EXP. 9-30-21 — STATE OF CALIFORNIA

REV:	DESCRIPTION:	DATE:
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5	DESIGN CHANGES	11/24/2020
A 6	ACD 0001 DESIGN CHANGES	4/10/2021
A 7	ACD 0001 DESIGN CHANGES	5/8/2021

CONSULTANT

Shadpour Consulting Engineers, Inc.

OSHPD APPROVAL STAMP:

OSHPD #: SZ00813-37-00-ACD0001

SHEET TITLE:

MECHANICAL PHASING PLAN - PHASE 1

PROJECT TITLE:

TCMC MRI

PROJECT #: 01907.01
DRAWN BY: SC
CHECKED BY: JC
SCALE: PER TITLE
DATE: 3/11/2020

SHEET NUMBER:

M1-03

100% - CONSTRUCTION DOCUMENTS

MECHANICAL PHASE 2

PHASE 2 MECHANICAL: INSTALLATION PREPARATION

1. COORDINATION: COORDINATE THE INSTALLATION PREPARATION PROCESS WITH PHASING PLANS AND OTHER TRADES.
2. PROVIDE THE FOLLOWING ITEMS PRIOR TO DEMOLITION:
   A. TEMPORARY DUCTS UP TO POINTS OF CONNECTIONS AS SHOWN.
   B. PROVIDE MECHANICAL PIPING SEGMENTS REQUIRED TO MAINTAIN AREAS OUTSIDE PROJECT BOUNDARIES OPERATIONAL.
3. SHUTDOWN PERIOD: OBTAIN APPROVAL FROM THE HOSPITAL PRIOR TO COMMENCEMENT OF THIS PHASE.

GENERAL PHASING NOTES

THE FOLLOWING IS INTENDED AS A CONCEPTUAL PHASING PLAN AND IDENTIFIES THE CRITICAL STEPS REQUIRED TO BE COMPLETED. THE PHASES ARE NOT INTENDED TO BE AN ALL INCLUSIVE LIST. THE INTENT IS TO FOLLOW THE OVERALL PHASING PLAN OF THE PROJECT WITH AREAS SERVED BY AH-1 ARE TO REMAIN IN OPERATION. A COMPLETE DETAILED PHASING PLAN SHALL BE COMPLETED WITHIN 30 DAYS OF NOTICE TO PROCEED. THE PHASING PLAN SHALL IDENTIFY ALL ACTIVITIES REQUIRED TO PERFORM THE WORK AND SHALL INCLUDE AT A MINIMUM; SCHEDULE, UTILITY SERVE INTERRUPTIONS, TEMPORARY SERVICE REQUIREMENTS, PRODUCT PROCUREMENT, INSTALLATION AND SKETCHED TO INDICATE EACH STEP. THE PHASING PLAN WILL REQUIRE APPROVAL BY THE OWNER AND MEOR PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES: THE FOLLOWING ARE OVERALL CRITICAL STEPS OF THE MECHANICAL AND PLUMBING SYSTEMS INSTALLATION.

1. PERFORM PRE-TEST READINGS AS INDICATED ON M1-03.
2. INSTALL MECHANICAL PIPING AND TEMPORARY DUCTWORK REQUIRED TO KEEP AREAS OUTSIDE SCOPE OF WORK OPERATIONAL.
3. DEMOLISH MECHANICAL AND PLUMBING SYSTEMS AS INDICATED IN MECHANICAL DEMOLITION PLANS. CONNECT MECHANICAL PIPING AND TEMPORARY DUCTWORK. BALANCE TO PRE-TEST READINGS.
4. INSTALL MECHANICAL COMPONENTS REQUIRED TO KEEP AREAS OUTSIDE SCOPE OF WORK OPERATIONAL.
5. REMOVE TEMPORARY SYSTEMS.
6. INSTALL REMAINING MECHANICAL PLUMBING SYSTEMS PER CONTRACT DRAWINGS. PERFORM FINAL TEST AND BALANCE.

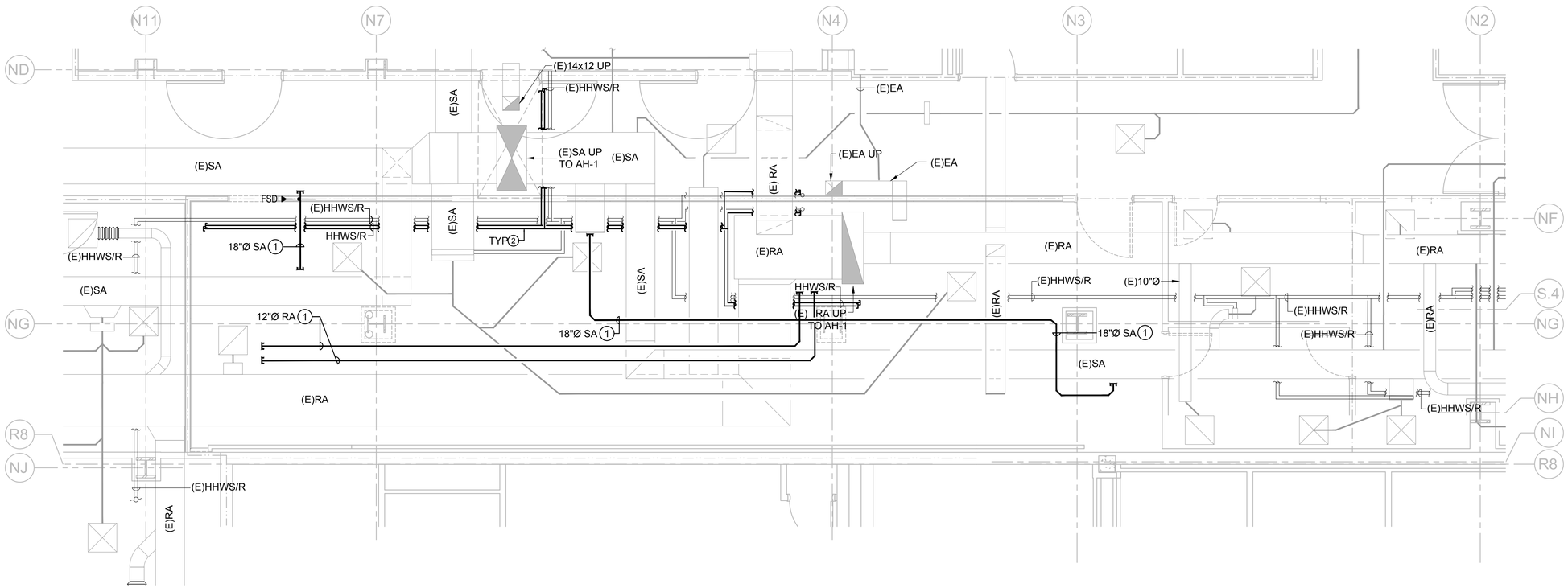
GENERAL NOTES

1. EXISTING CONDITIONS SHOWN ARE BASED ON AVAILABLE AS-BUILT DRAWINGS AND LIMITED NON-DESTRUCTIVE SITE SURVEYS. VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION ACTIVITIES AND NOTIFY THE OWNER OF ANY CONDITIONS THAT DIFFER.
2. UTILITY SERVICES TO THE BUILDING SHALL NOT BE INTERRUPTED UNLESS APPROVED BY THE OWNER. PROVIDE MINIMUM 2 WEEK NOTIFICATION IN ADVANCE OF UTILITY OUTAGES.

KEY NOTES

(1) PROVIDE TEMPORARY DUCTS IN PREPARATION FOR PHASE 3B

(2) PROVIDE MECHANICAL HHW PIPING PER M3-03.

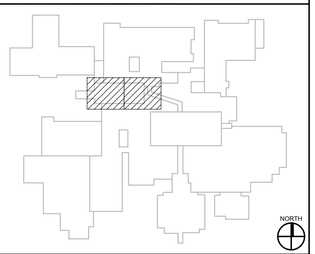


1 MECHANICAL PHASING PLAN - PHASE 2
SCALE: 1/8" = 1'-0"

0' 4' 8' 16'

N

KEY PLAN



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LICENSED ARCHITECT JOSEPH MICHAEL SFEIR No. C 28543 REN. 1-31-20 STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER RANK SHADPOUR No. 33923 MECHANICAL EXP. 9-30-21 STATE OF CALIFORNIA

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7	ACD 0001 DESIGN CHANGES	5/8/2021

CONSULTANT

Shadpour Consulting Engineers, Inc.

OSHPD APPROVAL STAMP:

OSHPD #: S200813-37-00-ACD0001

SHEET TITLE:

MECHANICAL PHASING PLAN - PHASE 2

PROJECT TITLE:

TCMC MRI

PROJECT #: 01907.01
DRAWN BY: SC
CHECKED BY: JC
SCALE: PER TITLE
DATE: 3/11/2020

SHEET NUMBER: M1-04

100% - CONSTRUCTION DOCUMENTS

MECHANICAL PHASE 3A

PHASE 3A MECHANICAL: DEMOLITION

1. COORDINATION: COORDINATE THE INSTALLATION PREPARATION PROCESS WITH PHASING PLANS AND OTHER TRADES.
2. DUCTWORK: DEMOLISH DUCTWORK AS SHOWN.
3. MECHANICAL PIPING: DEMOLISH PIPING AS INDICATED ON M2-01.
4. SHUTDOWN PERIOD: OBTAIN APPROVAL FROM THE HOSPITAL PRIOR TO COMMENCEMENT OF THIS PHASE.

GENERAL PHASING NOTES

THE FOLLOWING IS INTENDED AS A CONCEPTUAL PHASING PLAN AND IDENTIFIES THE CRITICAL STEPS REQUIRED TO BE COMPLETED. THE PHASES ARE NOT INTENDED TO BE AN ALL INCLUSIVE LIST. THE INTENT IS TO FOLLOW THE OVERALL PHASING PLAN OF THE PROJECT WITH AREAS SERVED BY AH-1 ARE TO REMAIN IN OPERATION. A COMPLETE DETAILED PHASING PLAN SHALL BE COMPLETED WITHIN 30 DAYS OF NOTICE TO PROCEED. THE PHASING PLAN SHALL IDENTIFY ALL ACTIVITIES REQUIRED TO PERFORM THE WORK AND SHALL INCLUDE AT A MINIMUM; SCHEDULE, UTILITY SERVE INTERRUPTIONS, TEMPORARY SERVICE REQUIREMENTS, PRODUCT PROCUREMENT, INSTALLATION AND SKETCHED TO INDICATE EACH STEP. THE PHASING PLAN WILL REQUIRE APPROVAL BY THE OWNER AND MEOR PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES: THE FOLLOWING ARE OVERALL CRITICAL STEPS OF THE MECHANICAL AND PLUMBING SYSTEMS INSTALLATION.

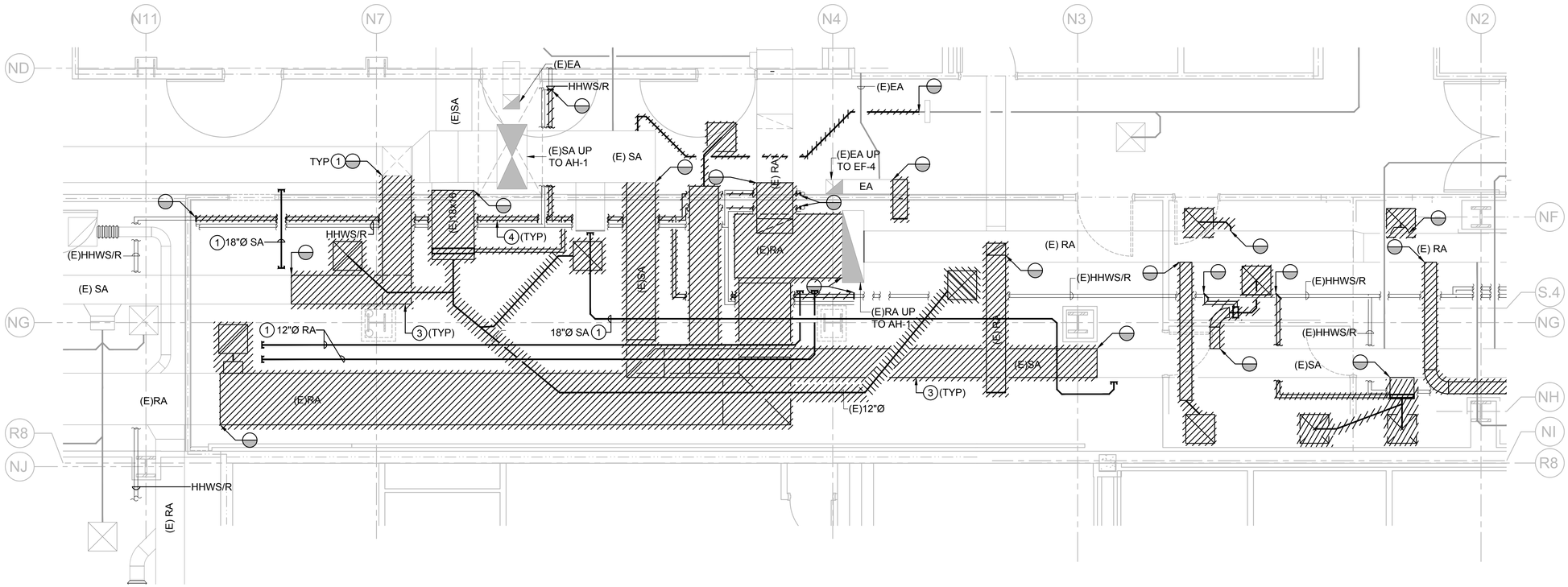
1. PERFORM PRE-TEST READINGS AS INDICATED ON M1-03.
2. INSTALL MECHANICAL PIPING AND TEMPORARY DUCTWORK REQUIRED TO KEEP AREAS OUTSIDE SCOPE OF WORK OPERATIONAL.
3. DEMOLISH MECHANICAL AND PLUMBING SYSTEMS AS INDICATED IN MECHANICAL DEMOLITION PLANS. CONNECT MECHANICAL PIPING AND TEMPORARY DUCTWORK. BALANCE TO PRE-TEST READINGS.
4. INSTALL MECHANICAL COMPONENTS REQUIRED TO KEEP AREAS OUTSIDE SCOPE OF WORK OPERATIONAL.
5. REMOVE TEMPORARY SYSTEMS.
6. INSTALL REMAINING MECHANICAL PLUMBING SYSTEMS PER CONTRACT DRAWINGS. PERFORM FINAL TEST AND BALANCE.

GENERAL NOTES

1. EXISTING CONDITIONS SHOWN ARE BASED ON AVAILABLE AS-BUILT DRAWINGS AND LIMITED NON-DESTRUCTIVE SITE SURVEYS. VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION ACTIVITIES AND NOTIFY THE OWNER OF ANY CONDITIONS THAT DIFFER.
2. UTILITY SERVICES TO THE BUILDING SHALL NOT BE INTERRUPTED UNLESS APPROVED BY THE OWNER. PROVIDE MINIMUM 2 WEEK NOTIFICATION IN ADVANCE OF UTILITY OUTAGES.

KEY NOTES

1. CAP AND SEAL DUCT AIR TIGHT WITH MINIMUM 16-GAUGE GALVANIZED SHEET METAL.
2. TEMPORARY DUCT WORK.
3. DEMOLISH DUCTWORK AND ALL RELATED APPURTENANCES UP TO POD.
4. DEMOLISH HHW PIPING AND ALL RELATED APPURTENANCES UP TO POD.

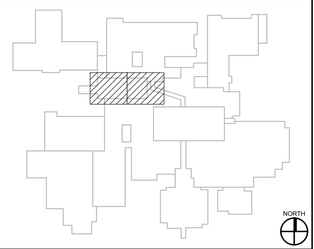


1 MECHANICAL PHASING PLAN - PHASE 3A
SCALE: 1/8" = 1'-0"

0' 4' 8' 16'

N

KEY PLAN



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REGISTERED PROFESSIONAL ENGINEER FRANK SHADPOUR No. 33923 MECHANICAL Exp. 9-30-21 STATE OF CALIFORNIA

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6	ACD 0001 DESIGN CHANGES	4/10/2021
7	ACD 0001 DESIGN CHANGES	5/8/2021

REV: DESCRIPTION: DATE:

CONSULTANT

Shadpour Consulting Engineers, Inc.

OSHPD APPROVAL STAMP:

OSHPD #: S20813-37-00-ACD0001

SHEET TITLE:

MECHANICAL PHASING PLAN - PHASE 3A

PROJECT TITLE:

TCMC MRI

PROJECT #: 01907.01
DRAWN BY: SC
CHECKED BY: JC
SCALE: PER TITLE
DATE: 3/11/2020

SHEET NUMBER: M1-05

100% - CONSTRUCTION DOCUMENTS

MECHANICAL PHASE 3B

PHASE 3B MECHANICAL: TEMPORARY DUCT CONNECTIONS

1. COORDINATION: COORDINATE THE INSTALLATION PREPARATION PROCESS WITH PHASING PLANS AND OTHER TRADES.
2. DUCTWORK: CONNECT TEMPORARY DUCTWORK AT POINT OF CONNECTION AS SHOWN.
3. MECHANICAL PIPING: CONNECT MECHANICAL PIPING PER M3-03.
4. TAB: BALANCE TRAVERSE/GRILLES TO PRE-DEMOLITION VALUES MEASURED IN PHASE 1.
5. SHUTDOWN PERIOD: OBTAIN APPROVAL FROM THE HOSPITAL PRIOR TO COMMENCEMENT OF THIS PHASE.

GENERAL PHASING NOTES

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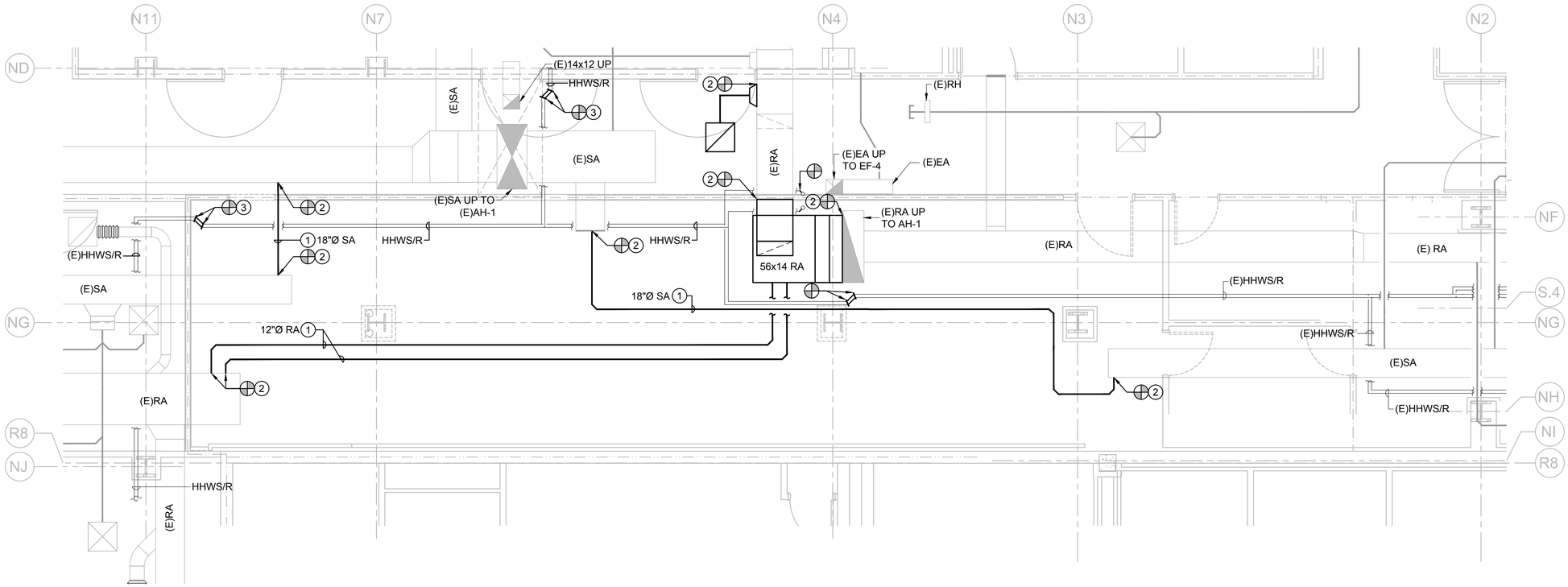
1. PERFORM PRE-TEST READINGS AS INDICATED ON M1-03.
2. INSTALL MECHANICAL PIPING AND TEMPORARY DUCTWORK REQUIRED TO KEEP AREAS OUTSIDE SCOPE OF WORK OPERATIONAL.
3. DEMOLISH MECHANICAL AND PLUMBING SYSTEMS AS INDICATED IN MECHANICAL DEMOLITION PLANS. CONNECT MECHANICAL PIPING AND TEMPORARY DUCTWORK. BALANCE TO PRE-TEST READINGS.
4. INSTALL MECHANICAL COMPONENTS REQUIRED TO KEEP AREAS OUTSIDE SCOPE OF WORK OPERATIONAL.
5. REMOVE TEMPORARY SYSTEMS.
6. INSTALL REMAINING MECHANICAL PLUMBING SYSTEMS PER CONTRACT DRAWINGS. PERFORM FINAL TEST AND BALANCE.

GENERAL NOTES

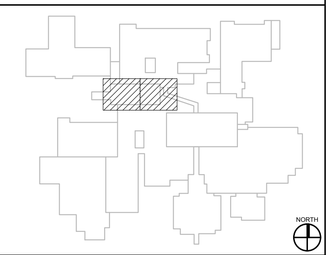
1. EXISTING CONDITIONS SHOWN ARE BASED ON AVAILABLE AS-BUILT DRAWINGS AND LIMITED NON-DESTRUCTIVE SITE SURVEYS. VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION ACTIVITIES AND NOTIFY THE OWNER OF ANY CONDITIONS THAT DIFFER.
2. UTILITY SERVICES TO THE BUILDING SHALL NOT BE INTERRUPTED UNLESS APPROVED BY THE OWNER. PROVIDE MINIMUM 2 WEEK NOTIFICATION IN ADVANCE OF UTILITY OUTAGES.

KEY NOTES

1. PROVIDE TEMPORARY DUCTWORK.
2. CONNECT TO EXISTING DUCTWORK.
3. CONNECT TO EXISTING HHW PIPING.



KEY PLAN



1 MECHANICAL PHASING PLAN - PHASE 3B
SCALE: 1/8" = 1'-0"

0' 4' 8' 16'

N

NORTH

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TCMC MRI

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REGISTERED PROFESSIONAL ENGINEER FRANK SHADPOUR No. 23923 MECHANICAL EXP. 9-30-21 STATE OF CALIFORNIA

REV:	DESCRIPTION:	DATE:
1	OSHPD COMMENTS	8/3/2020
2	DESIGN CHANGES	8/10/2020
3	OSHPD COMMENTS	10/2/2020
4	OSHPD COMMENTS	11/24/2020
5	DESIGN CHANGES	11/24/2020
6	ACD 0001 DESIGN CHANGES	4/10/2021
7	ACD 0001 DESIGN CHANGES	5/8/2021

CONSULTANT

Shadpour Consulting Engineers, Inc.

OSHPD APPROVAL STAMP:

OSHPD #: S20813-37-00-ACD0001

SHEET TITLE:

MECHANICAL PHASING PLAN - PHASE 3B

PROJECT TITLE:

TCMC MRI

PROJECT #: 01907.01
DRAWN BY: SC
CHECKED BY: JC
SCALE: PER TITLE
DATE: 3/11/2020

SHEET NUMBER: M1-06

100% - CONSTRUCTION DOCUMENTS

MECHANICAL PHASE 4

PHASE 4 MECHANICAL: INSTALLATION

1. COORDINATION: COORDINATE THE INSTALLATION PREPARATION PROCESS WITH PHASING PLANS AND OTHER TRADES.
2. DUCTWORK: INSTALL DUCTWORK AS REQUIRED TO MAINTAIN AREAS OUTSIDE PROJECT BOUNDARIES OPERATIONAL.
3. DEMOLITION: DEMOLISH TEMPORARY DUCTWORK.
4. TAB: BALANCE TRAVERSE/GRILLES TO PRE-DEMOLITION VALUES MEASURED IN PHASE 1.
5. SHUTDOWN PERIOD: OBTAIN APPROVAL FROM THE HOSPITAL PRIOR TO COMMENCEMENT OF THIS PHASE.

GENERAL PHASING NOTES

THE FOLLOWING IS INTENDED AS A CONCEPTUAL PHASING PLAN AND IDENTIFIES THE CRITICAL STEPS REQUIRED TO BE COMPLETED. THE PHASES ARE NOT INTENDED TO BE AN ALL INCLUSIVE LIST. THE INTENT IS TO FOLLOW THE OVERALL PHASING PLAN OF THE PROJECT WITH AREAS SERVED BY AH-1 ARE TO REMAIN IN OPERATION. A COMPLETE DETAILED PHASING PLAN SHALL BE COMPLETED WITHIN 30 DAYS OF NOTICE TO PROCEED. THE PHASING PLAN SHALL IDENTIFY ALL ACTIVITIES REQUIRED TO PERFORM THE WORK AND SHALL INCLUDE AT A MINIMUM; SCHEDULE, UTILITY SERVE INTERRUPTIONS, TEMPORARY SERVICE REQUIREMENTS, PRODUCT PROCUREMENT, INSTALLATION AND SKETCHED TO INDICATE EACH STEP. THE PHASING PLAN WILL REQUIRE APPROVAL BY THE OWNER AND MEOR PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES: THE FOLLOWING ARE OVERALL CRITICAL STEPS OF THE MECHANICAL AND PLUMBING SYSTEMS INSTALLATION.

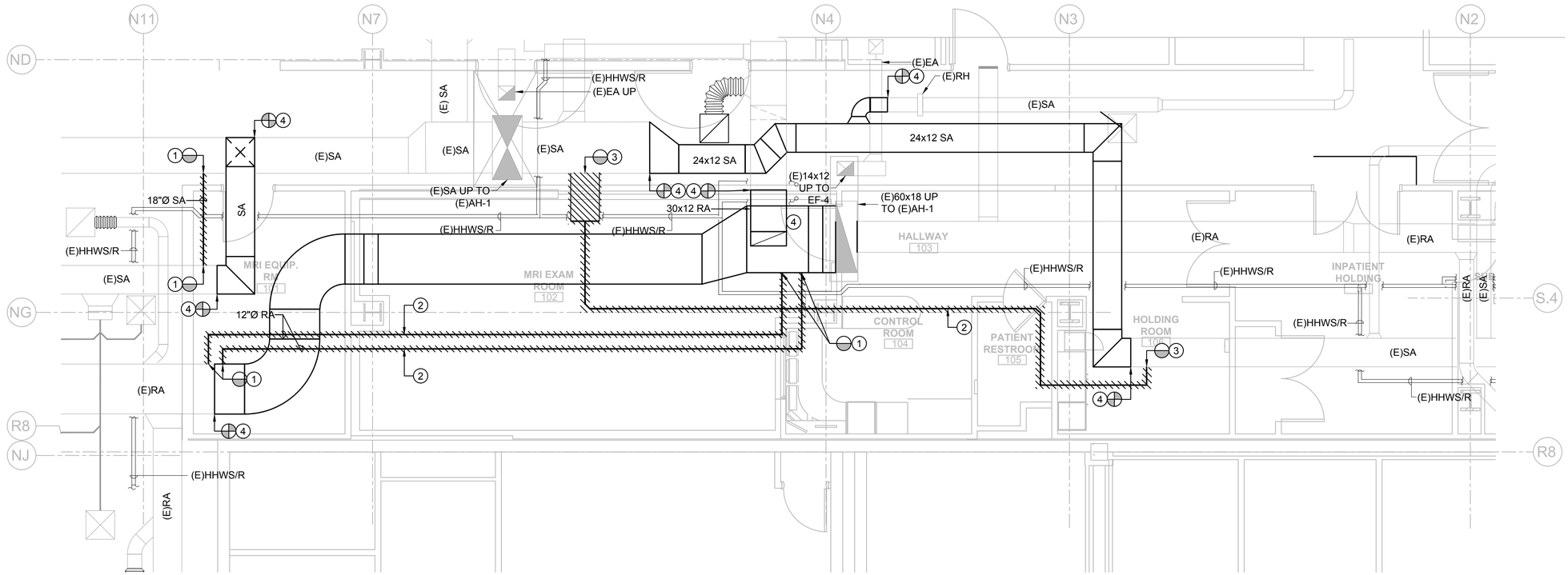
1. PERFORM PRE-TEST READINGS AS INDICATED ON M1-03.
2. INSTALL MECHANICAL PIPING AND TEMPORARY DUCTWORK REQUIRED TO KEEP AREAS OUTSIDE SCOPE OF WORK OPERATIONAL.
3. DEMOLISH MECHANICAL AND PLUMBING SYSTEMS AS INDICATED IN MECHANICAL DEMOLITION PLANS. CONNECT MECHANICAL PIPING AND TEMPORARY DUCTWORK. BALANCE TO PRE-TEST READINGS.
4. INSTALL MECHANICAL COMPONENTS REQUIRED TO KEEP AREAS OUTSIDE SCOPE OF WORK OPERATIONAL.
5. REMOVE TEMPORARY SYSTEMS.
6. INSTALL REMAINING MECHANICAL PLUMBING SYSTEMS PER CONTRACT DRAWINGS. PERFORM FINAL TEST AND BALANCE.

GENERAL NOTES

1. EXISTING CONDITIONS SHOWN ARE BASED ON AVAILABLE AS-BUILT DRAWINGS AND LIMITED NON-DESTRUCTIVE SITE SURVEYS. VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION ACTIVITIES AND NOTIFY THE OWNER OF ANY CONDITIONS THAT DIFFER.
2. UTILITY SERVICES TO THE BUILDING SHALL NOT BE INTERRUPTED UNLESS APPROVED BY THE OWNER. PROVIDE MINIMUM 2 WEEK NOTIFICATION IN ADVANCE OF UTILITY OUTAGES.

KEY NOTES

1. DISCONNECT TEMPORARY DUCTWORK FROM EXISTING DUCTWORK. CAP AND SEAL DUCTWORK IMMEDIATELY UPON REMOVAL OF TEMPORARY DUCTWORK.
2. DEMOLISH TEMPORARY DUCTS AND ALL RELATED APPURTENANCES UP TO POD.
3. DEMOLISH EXISTING DUCTWORK AND ALL RELATED APPURTENANCES UP TO POD.
4. CONNECT TO EXISTING DUCTWORK.

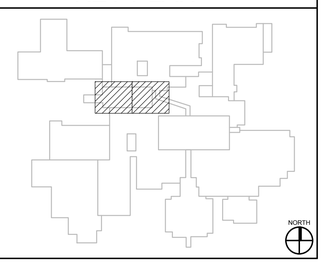


1 MECHANICAL PHASING PLAN - PHASE 4
SCALE: 1/8" = 1'-0"

0' 4' 8' 16'

N

KEY PLAN



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LICENSED ARCHITECT — JOSEPH T. MICHEL SFEIR — No. C 28543 — REN. 1-31-23 — STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER — FRANK SHADPOUR — No. 33923 — MECHANICAL — Exp. 9-30-21 — STATE OF CALIFORNIA

REV:	DESCRIPTION:	DATE:
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3	OSHPD COMMENTS	10/2/2020
4	OSHPD COMMENTS	11/24/2020
5	DESIGN CHANGES	11/24/2020
A 6	ACD 0001 DESIGN CHANGES	4/10/2021
7	ACD 0001 DESIGN CHANGES	5/8/2021

CONSULTANT

Shadpour Consulting Engineers, Inc.

OSHPD APPROVAL STAMP:

OSHPD #: S20813-37-00-ACD0001

SHEET TITLE:

MECHANICAL PHASING PLAN - PHASE 4

PROJECT TITLE:

TCMC MRI

PROJECT #: 01907.01
DRAWN BY: SC
CHECKED BY: JC
SCALE: PER TITLE
DATE: 3/11/2020

SHEET NUMBER: M1-07

100% - CONSTRUCTION DOCUMENTS

MECHANICAL PHASE 5

PHASE 5 MECHANICAL: INSTALLATION

1. COORDINATION: COORDINATE THE INSTALLATION PREPARATION PROCESS WITH PHASING PLANS AND OTHER TRADES.
2. DUCTWORK: INSTALL REMAINING MECHANICAL COMPONENTS AS INDICATED ON NEW WORK PLANS M3-01 AND M3-02.
3. TAB: BALANCE TRAVERSE/GRILLES TO PRE-DEMOLITION VALUES MEASURED IN PHASE 1
4. SHUTDOWN PERIOD: OBTAIN APPROVAL FROM THE HOSPITAL PRIOR TO COMMENCEMENT OF THIS PHASE.

GENERAL PHASING NOTES

THE FOLLOWING IS INTENDED AS A CONCEPTUAL PHASING PLAN AND IDENTIFIES THE CRITICAL STEPS REQUIRED TO BE COMPLETED. THE PHASES ARE NOT INTENDED TO BE AN ALL INCLUSIVE LIST. THE INTENT IS TO FOLLOW THE OVERALL PHASING PLAN OF THE PROJECT WITH AREAS SERVED BY AH-1 ARE TO REMAIN IN OPERATION. A COMPLETE DETAILED PHASING PLAN SHALL BE COMPLETED WITHIN 30 DAYS OF NOTICE TO PROCEED. THE PHASING PLAN SHALL IDENTIFY ALL ACTIVITIES REQUIRED TO PERFORM THE WORK AND SHALL INCLUDE AT A MINIMUM; SCHEDULE, UTILITY SERVE INTERRUPTIONS, TEMPORARY SERVICE REQUIREMENTS, PRODUCT PROCUREMENT, INSTALLATION AND SKETCHED TO INDICATE EACH STEP. THE PHASING PLAN WILL REQUIRE APPROVAL BY THE OWNER AND MEOR PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES: THE FOLLOWING ARE OVERALL CRITICAL STEPS OF THE MECHANICAL AND PLUMBING SYSTEMS INSTALLATION.

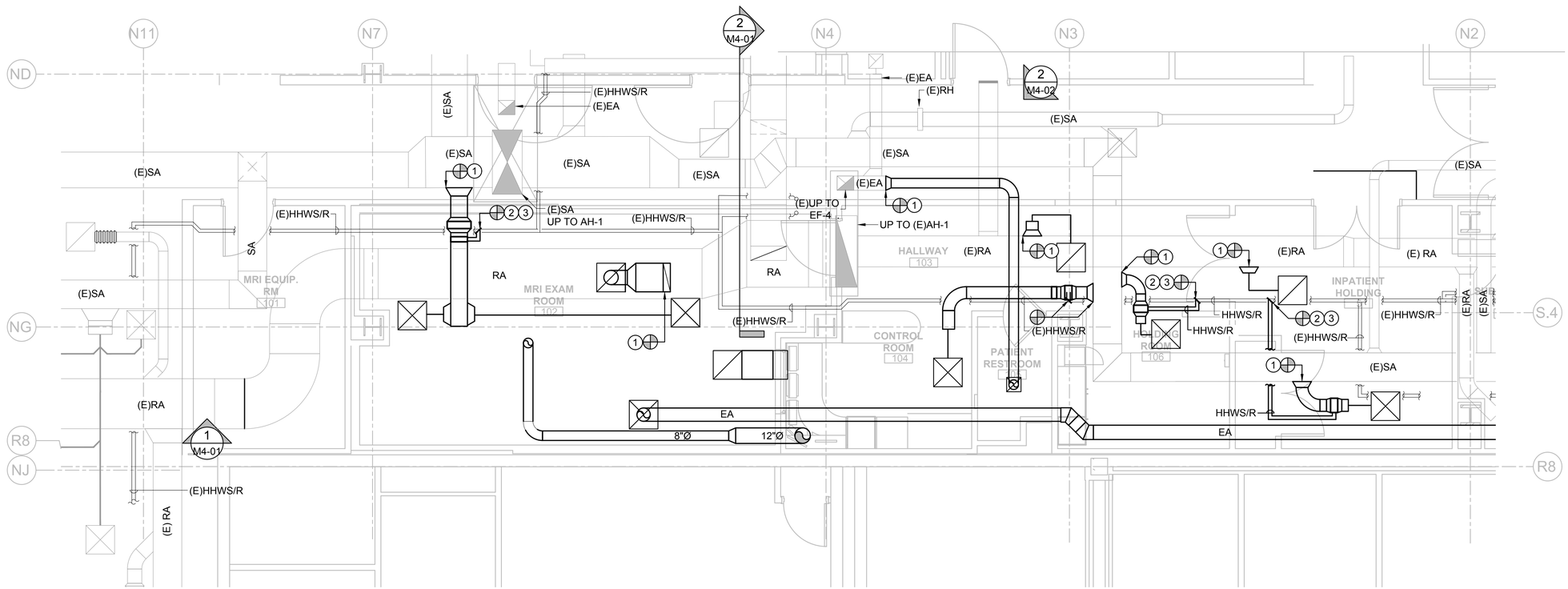
1. PERFORM PRE-TEST READINGS AS INDICATED ON M1-03.
2. INSTALL MECHANICAL PIPING AND TEMPORARY DUCTWORK REQUIRED TO KEEP AREAS OUTSIDE SCOPE OF WORK OPERATIONAL.
3. DEMOLISH MECHANICAL AND PLUMBING SYSTEMS AS INDICATED IN MECHANICAL DEMOLITION PLANS. CONNECT MECHANICAL PIPING AND TEMPORARY DUCTWORK. BALANCE TO PRE-TEST READINGS.
4. INSTALL MECHANICAL COMPONENTS REQUIRED TO KEEP AREAS OUTSIDE SCOPE OF WORK OPERATIONAL.
5. REMOVE TEMPORARY SYSTEMS.
6. INSTALL REMAINING MECHANICAL PLUMBING SYSTEMS PER CONTRACT DRAWINGS. PERFORM FINAL TEST AND BALANCE.

GENERAL NOTES

1. EXISTING CONDITIONS SHOWN ARE BASED ON AVAILABLE AS-BUILT DRAWINGS AND LIMITED NON-DESTRUCTIVE SITE SURVEYS. VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION ACTIVITIES AND NOTIFY THE OWNER OF ANY CONDITIONS THAT DIFFER.
2. UTILITY SERVICES TO THE BUILDING SHALL NOT BE INTERRUPTED UNLESS APPROVED BY THE OWNER. PROVIDE MINIMUM 2 WEEK NOTIFICATION IN ADVANCE OF UTILITY OUTAGES.

KEY NOTES

1. CONNECT TO EXISTING DUCTWORK AT POC.
2. CONNECT TO EXISTING HHWS/R PIPING AT POC.
3. PROVIDE HHWS/R PIPING SHUT-OFF VALVE.

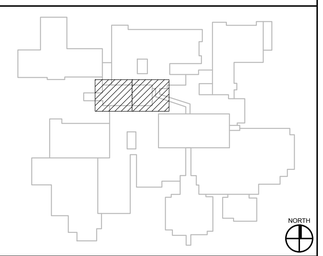


1 MECHANICAL PHASING PLAN - PHASE 5
SCALE: 1/8" = 1'-0"

0' 4' 8' 16'

N

KEY PLAN



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LICENSED ARCHITECT JOSEPH MICHAEL SFEIR No. C 28543 REN. 1-31-21 STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER FRANK SHADPOUR No. 43923 MECHANICAL EXP. 9-30-21 STATE OF CALIFORNIA

REV:	DESCRIPTION:	DATE:
1	OSHPD COMMENTS	8/3/2020
2	DESIGN CHANGES	8/10/2020
3	OSHPD COMMENTS	10/2/2020
4	OSHPD COMMENTS	11/24/2020
5	DESIGN CHANGES	11/24/2020
6	ACD 0001 DESIGN CHANGES	4/10/2021
7	ACD 0001 DESIGN CHANGES	5/8/2021

CONSULTANT:

Shadpour Consulting Engineers, Inc.

OSHPD APPROVAL STAMP:

OSHPD #: S200813-37-00-ACD0001

SHEET TITLE:

MECHANICAL PHASING PLAN - PHASE 5

PROJECT TITLE:

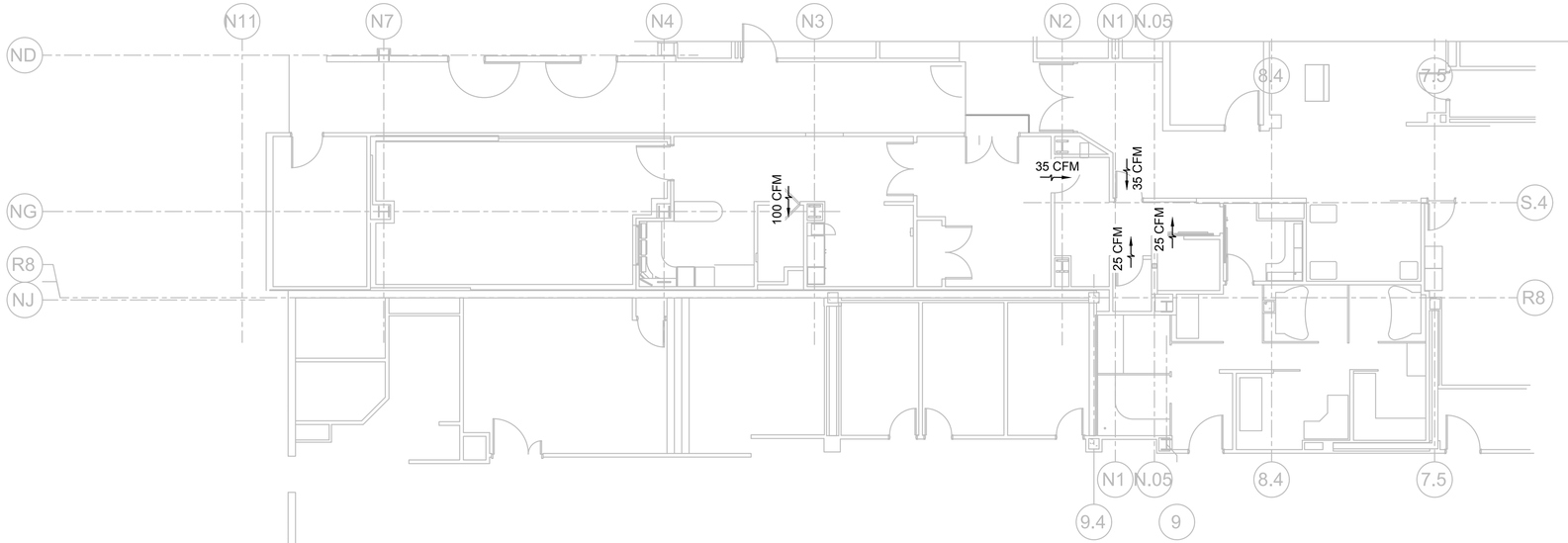
TCMC MRI

PROJECT #: 01907.01
DRAWN BY: SC
CHECKED BY: JC
SCALE: PER TITLE
DATE: 3/11/2020

SHEET NUMBER:

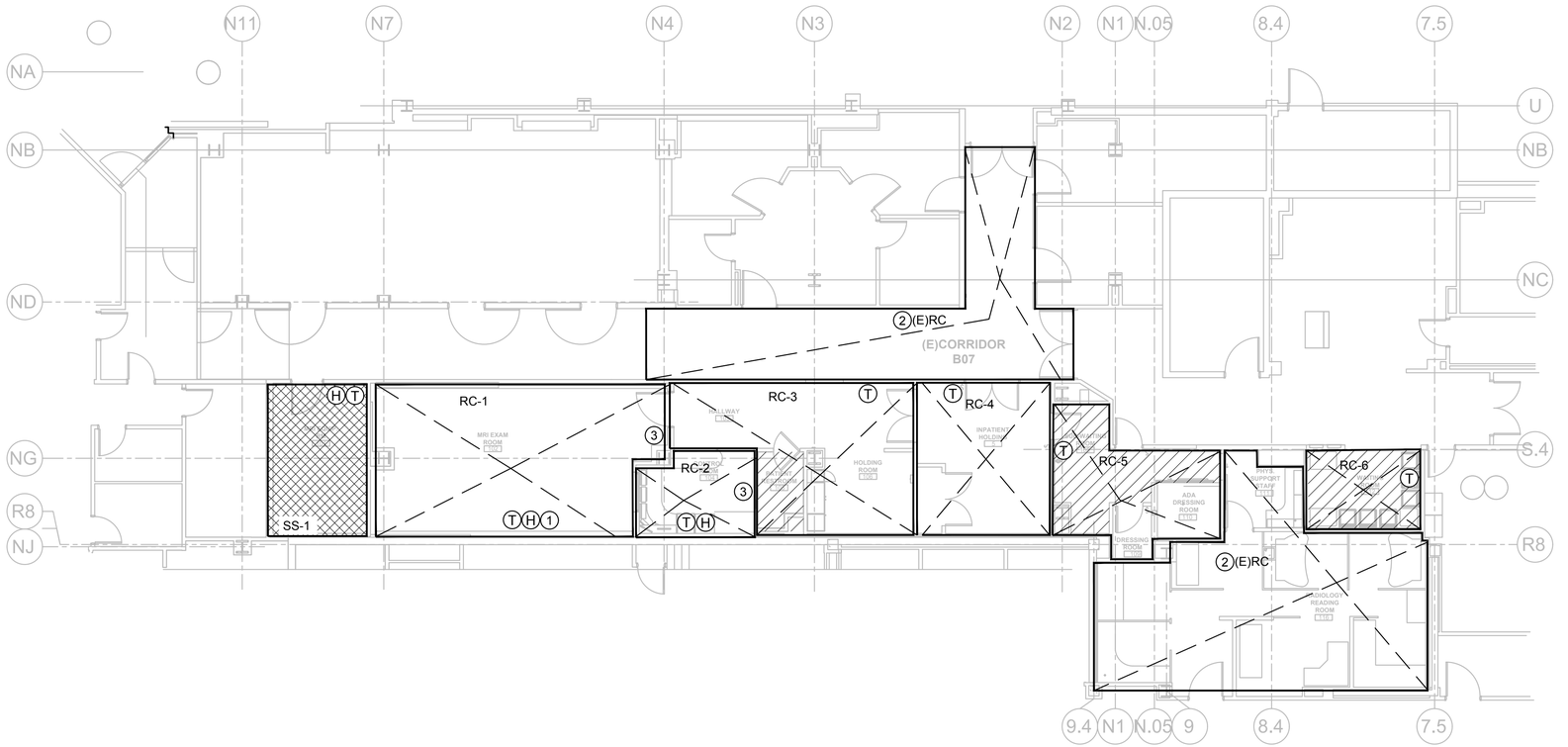
M1-08

100% - CONSTRUCTION DOCUMENTS



1 MECHANICAL AIRFLOW BALANCE PLAN
SCALE: 1/8" = 1'-0"

N
0' 4' 8' 16'



2 MECHANICAL ZONING PLAN
SCALE: 1/8" = 1'-0"

N
0' 4' 8' 16'

GENERAL NOTES

1. PROVIDE TEMPERATURE SENSOR FOR EACH ZONE.
2. SENSOR LOCATIONS INDICATED MAY VARY BASED UPON ACTUAL FURNITURE AND OWNER PROVIDED LAYOUTS. COORDINATE EXACT LOCATIONS WITH FURNITURE LAYOUT AND INCLUDE PROPOSED LOCATIONS IN SHOP DRAWINGS.
3. PROVIDE HARDWIRED THERMOSTAT FOR CONTROL AND DDC TEMPERATURE SENSOR FOR MONITORING.
4. DDC TEMPERATURE SENSOR TO DISPLAY AT FRONT-END USER INTERFACE.

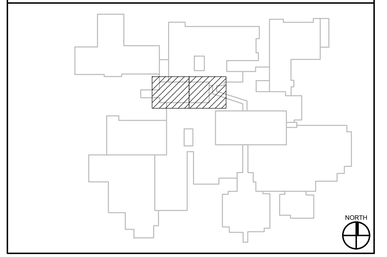
KEY NOTES

1. LOCATE MRI SCAN ROOM TEMPERATURE SENSOR AND HUMIDISTAT IN THE RETURN AIR DUCT IN ACCESSIBLE LOCATION.
2. EXISTING RE-HEAT COIL TO REMAIN
3. EXHAUST FAN EF-2 MANUAL SWITCHES WIRED IN PARALLEL.

LEGEND

- ROOM EXHAUSTED
- REHEAT COIL
- SPLIT SYSTEM
- (T) THERMOSTAT
- (H) HUMIDITY SENSOR

KEY PLAN



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REGISTERED PROFESSIONAL ENGINEER — RANK SHADPOUR — No. 33923 — MECHANICAL — Exp. 9-30-21 — STATE OF CALIFORNIA

	REV:	DESCRIPTION:	DATE:
1	1	OSHPD COMMENTS	8/3/2020
2	2	DESIGN CHANGES	8/10/2020
3	3	OSHPD COMMENTS	10/2/2020
4	4	OSHPD COMMENTS	11/24/2020
4	4	DESIGN CHANGES	11/24/2020
5 6	6	ACD 0001 DESIGN CHANGES	4/10/2021
7	7	ACD 0001 DESIGN CHANGES	5/8/2021

CONSULTANT

Shadpour Consulting Engineers, Inc.

OSHPD APPROVAL STAMP:

OSHPD #: S200813-37-00-ACD0001

SHEET TITLE:

MECHANICAL ZONING PLAN

PROJECT TITLE:

TCMC MRI

PROJECT #: 01907.01
DRAWN BY: SC
CHECKED BY: JC
SCALE: PER TITLE
DATE: 3/11/2020

SHEET NUMBER:

M1-09

100% - CONSTRUCTION DOCUMENTS

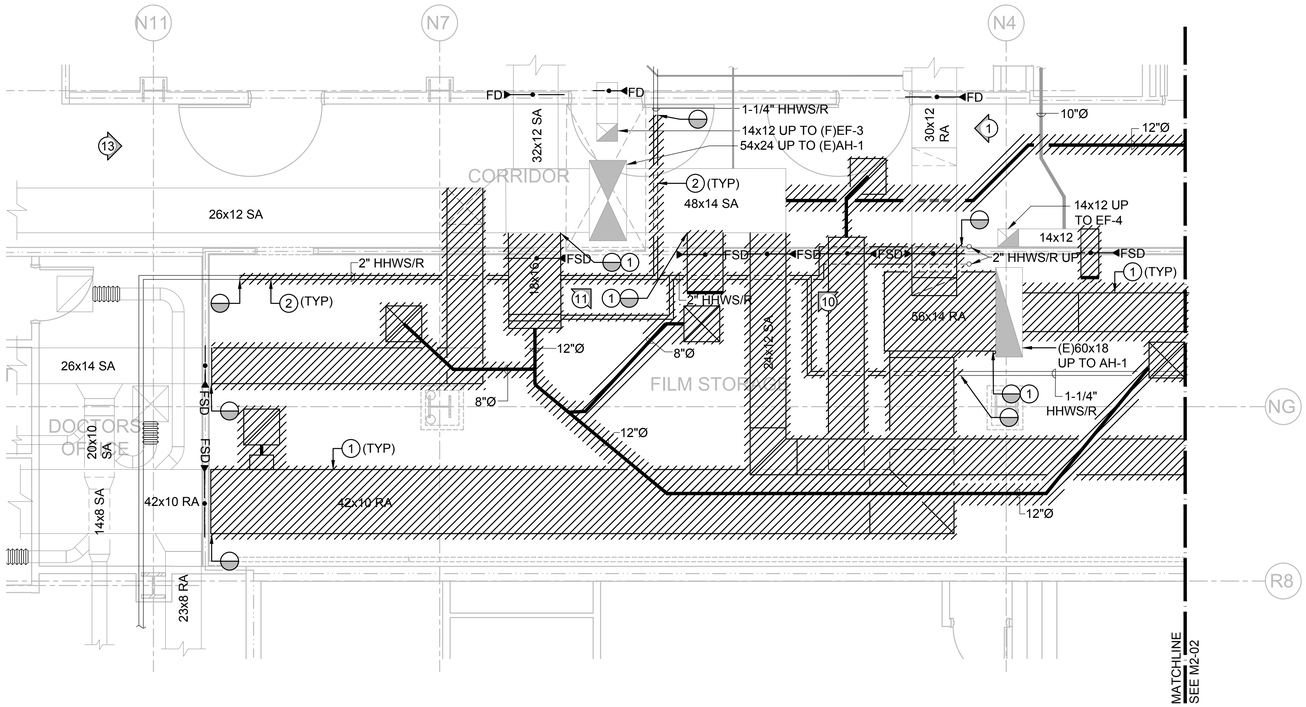
GENERAL NOTES

1. EXISTING CONDITIONS ARE BASED UPON INFORMATION OBTAINED FROM AVAILABLE AS-BUILT DRAWINGS AND LIMITED NON-DESTRUCTIVE FIELD INVESTIGATIONS. PERFORM A FULL SITE SURVEY WITHIN 30 DAYS OF COMMENCEMENT OF WORK. SURVEY SHALL BE ALL INCLUSIVE OF ALL AREAS WITHIN THE SCOPE OF WORK AND BEYOND AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM. NOTIFY OWNER IF CONDITIONS THAT DIFFER FROM DESIGN ARE IDENTIFIED THAT WILL IMPACT THE PROJECT.
2. CAP AND SEAL ALL OPEN DUCTWORK AND PIPING IMMEDIATELY DURING DEMOLITION WORK UNLESS OTHERWISE NOTED.
3. REMOVE EXISTING ZONE TEMPERATURE SENSORS AS REQUIRED. REFER TO ZONING PLANS FOR REQUIREMENTS.

KEY NOTES

(1) DEMOLISH DUCTWORK IN ITS ENTIRETY AND ALL RELATED APPURTENANCES UP TO POD. CAP AND SEAL DUCT AIR TIGHT WITH MINIMUM 16 GAUGE GALVANIZED SHEET METAL IMMEDIATELY UPON COMPLETION OF DEMOLITION WORK.

(2) DEMOLISH HHWS/R PIPING IN ITS ENTIRETY AND ALL RELATED APPURTENANCES UP TO POD.

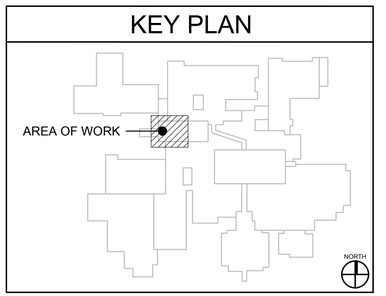


1 MECHANICAL DEMOLITION PLAN - AREA A
SCALE: 1/8" = 1'-0"

0' 4' 8' 16'

N

KEY PLAN



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REGISTERED PROFESSIONAL ENGINEER — FRANK SHADPOUR — No. 33923 — MECHANICAL — EXP. 9-30-21 — STATE OF CALIFORNIA

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5	DESIGN CHANGES	11/24/2020
6	ACD 0001 DESIGN CHANGES	4/10/2021
7	ACD 0001 DESIGN CHANGES	5/8/2021

CONSULTANT:

Shadpour Consulting Engineers, Inc.

OSHPD APPROVAL STAMP:

OSHPD #: S200813-37-00-ACD0001

SHEET TITLE:

MECHANICAL DEMOLITON PLAN - AREA A

PROJECT TITLE:

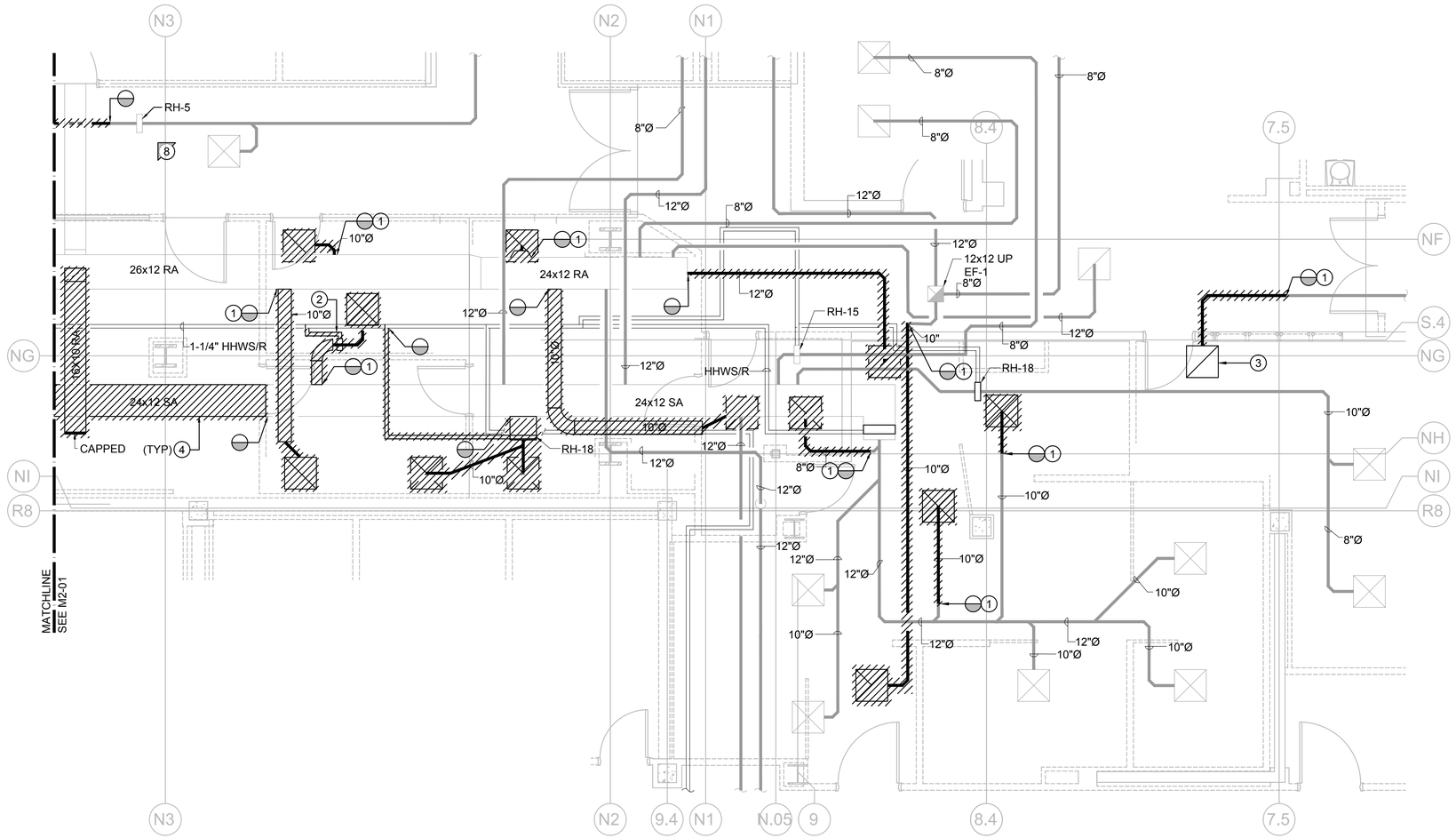
TCMC MRI

PROJECT #: 01907.01
DRAWN BY: SC
CHECKED BY: JC
SCALE: PER TITLE
DATE: 3/11/2020

SHEET NUMBER:

M2-01

100% - CONSTRUCTION DOCUMENTS



1 MECHANICAL DEMOLITION PLAN - AREA A
SCALE: 1/8" = 1'-0"

0' 4' 8' 16'

N

GENERAL NOTES

1. EXISTING CONDITIONS ARE BASED UPON INFORMATION OBTAINED FROM AVAILABLE AS-BUILT DRAWINGS AND LIMITED NON-DESTRUCTIVE FIELD INVESTIGATIONS. PERFORM A FULL SITE SURVEY WITHIN 30 DAYS OF COMMENCEMENT OF WORK. SURVEY SHALL BE ALL INCLUSIVE OF ALL AREAS WITHIN THE SCOPE OF WORK AND BEYOND AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM. NOTIFY OWNER IF CONDITIONS THAT DIFFER FROM DESIGN ARE IDENTIFIED THAT WILL IMPACT THE PROJECT.
2. CAP AND SEAL ALL OPEN DUCTWORK AND PIPING IMMEDIATELY DURING DEMOLITION WORK UNLESS OTHERWISE NOTED.
3. REMOVE EXISTING ZONE TEMPERATURE SENSORS AS REQUIRED. REFER TO ZONING PLANS FOR REQUIREMENTS.

KEY NOTES

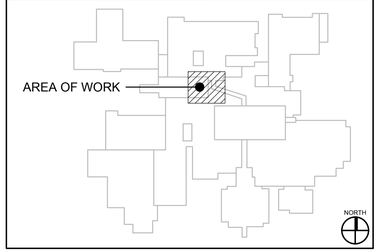
(1) DEMOLISH DUCTWORK IN ITS ENTIRETY AND ALL RELATED APPURTENANCES UP TO POD. CAP AND SEAL DUCT AIR TIGHT WITH MINIMUM 16 GAUGE GALVANIZED SHEET METAL IMMEDIATELY UPON COMPLETION OF DEMOLITION WORK.

(2) DEMOLISH HHWS/R PIPING IN ITS ENTIRETY AND ALL RELATED APPURTENANCES UP TO POD.

(3) RELOCATE GRILLE. REFER TO SHEET M3-02 FOR LOCATION.

(4) DEMOLISH DUCTWORK AND ALL RELATED APPURTENANCES UP TO POD.

KEY PLAN



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LICENSED ARCHITECT
JOSEPH MICHAEL SFEIR
No. C 28543
REN. 1-31-23
STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER
FRANK SHADPUR
No. 23923
MECHANICAL
EXP. 9-30-21
STATE OF CALIFORNIA

REV:	DESCRIPTION:	DATE:
1	OSHPD COMMENTS	8/3/2020
2	DESIGN CHANGES	8/10/2020
3	OSHPD COMMENTS	10/2/2020
4	OSHPD COMMENTS	11/24/2020
5	DESIGN CHANGES	11/24/2020
6	ACD 0001 DESIGN CHANGES	4/10/2021
7	ACD 0001 DESIGN CHANGES	5/8/2021

CONSULTANT:
Shadpour Consulting Engineers, Inc.

OSHPD APPROVAL STAMP:
OSHPD #: S20813-37-00-ACD0001

SHEET TITLE:
MECHANICAL DEMOLITION PLAN - AREA B

PROJECT TITLE:
TCMC MRI

PROJECT #: 01907.01
DRAWN BY: SC
CHECKED BY: JC
SCALE: PER TITLE
DATE: 3/11/2020

SHEET NUMBER:
M2-02

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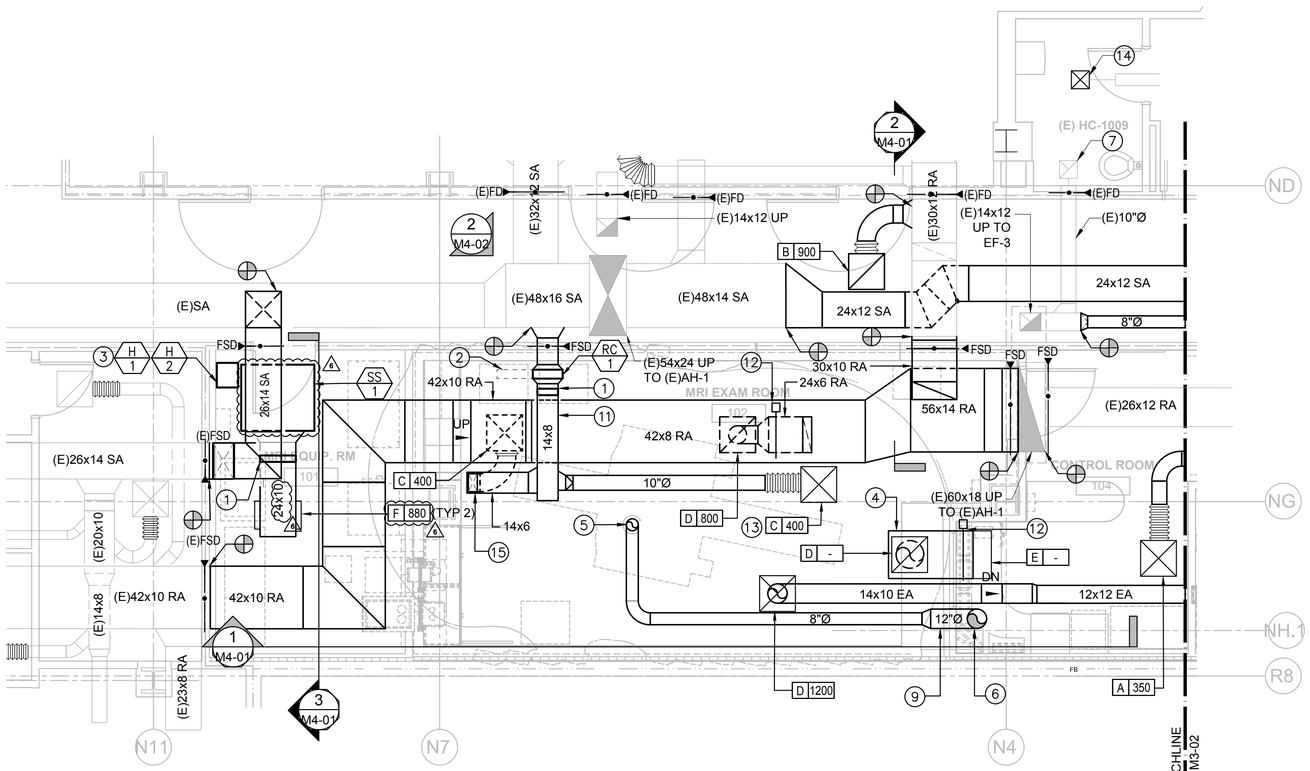


1 MECHANICAL PLAN - AREA A
SCALE: 1/4" = 1'-0"

NORTH

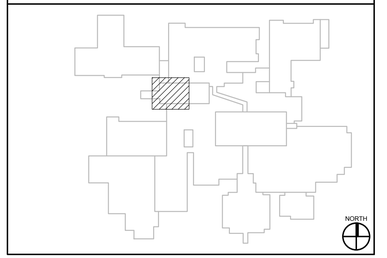
GENERAL NOTES

1. EXISTING CONDITIONS SHOWN ARE BASED ON AVAILABLE AS-BUILT DRAWINGS AND LIMITED NON-DESTRUCTIVE SITE SURVEYS. VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION ACTIVITIES AND NOTIFY THE OWNER OF ANY CONDITIONS THAT DIFFER.
2. UTILITY SERVICES TO THE BUILDING SHALL NOT BE INTERRUPTED UNLESS APPROVED BY THE OWNER. PROVIDE MINIMUM 2 WEEK NOTIFICATION IN ADVANCE OF UTILITY OUTAGES.
3. ALL MATERIALS INSTALLED IN MRI SCAN ROOM SHALL BE NON-MAGNETIC AND NON FERROUS.

KEY NOTES

1. HUMIDIFIER DISPERSION GRID. PROVIDE HUMIDIFIER MFG RECOMMENDED STRAIGHT DUCT LENGTH DOWNSTREAM OF DISPERSION GRID.
2. PROVIDE MINIMUM 24" SERVICE CLEARANCE FROM REHEAT COIL. PROVIDE ACCESS PANEL. IN CEILING/SHIELD.
3. H-2 LOCATED ABOVE H-1. SEE 3/M401 FOR DETAIL. PROVIDE MINIMUM 36" FRONT CLEARANCE FOR HUMIDIFIERS.
4. 32x18 PRESSURE EQUALIZING VENT.
5. 8"Ø QUENCH VENT DN TO MRI EQUIPMENT.
6. 12"Ø QUENCH VENT UP.
7. BALANCE TO 190 CFM.
8. GALVANIZED STEEL DUCTWORK TO BE LOCATED ABOVE THE SHIELDING. PROVIDE WAVEGUIDE AND NON-FERROUS DUCTWORK TO DIFFUSERS AND GRILLES.
9. QUENCH VENT. PROVIDE MATERIAL, WALL THICKNESS, AND INSULATION PER MFG REQUIREMENTS. PROVIDE 2 HOUR FIRE WRAP.
10. BALANCE TO PRE-DEMOLITION READING.
11. PROVIDE STAINLESS STEEL DUCTWORK ABOVE SHIELDING FOR DUCT PLENUM DOWNSTREAM OF HUMIDIFIER. PROVIDE WAVEGUIDE AND NON-FERROUS DUCTWORK TO DIFFUSERS.
12. PROVIDE MOTORIZED DAMPER. INTERLOCK WITH EMERGENCY EXHAUST FAN (EF-2).
13. 20"Ø NECK SIZE.
14. BALANCE TO 150 CFM.
15. 12"x6" DOWN THROUGH MRI SHIELDING.

KEY PLAN



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LICENSED ARCHITECT — JOSEPH MICHAEL SFEIR — No. C 28543 — REN. 1-31-21 — STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER — FRANK SHADPOUR — No. 23923 — MECHANICAL — EXP. 9-30-21 — STATE OF CALIFORNIA

REV:	DESCRIPTION:	DATE:
1	OSHPD COMMENTS	6/3/2020
2	DESIGN CHANGES	8/10/2020
3	OSHPD COMMENTS	10/2/2020
4	OSHPD COMMENTS	11/24/2020
5	DESIGN CHANGES	11/24/2020
6	ACD 0001 DESIGN CHANGES	4/10/2021
7	ACD 0001 DESIGN CHANGES	5/8/2021

CONSULTANT:
Shadpour Consulting Engineers, Inc.

OSHPD APPROVAL STAMP:
OSHPD #: S200813-37-00-ACD0001

SHEET TITLE:
MECHANICAL PLAN AREA A

PROJECT TITLE:
TCMC MRI

PROJECT #: 01907.01
DRAWN BY: SC
CHECKED BY: JC
SCALE: PER TITLE
DATE: 3/11/2020
SHEET NUMBER: M3-01

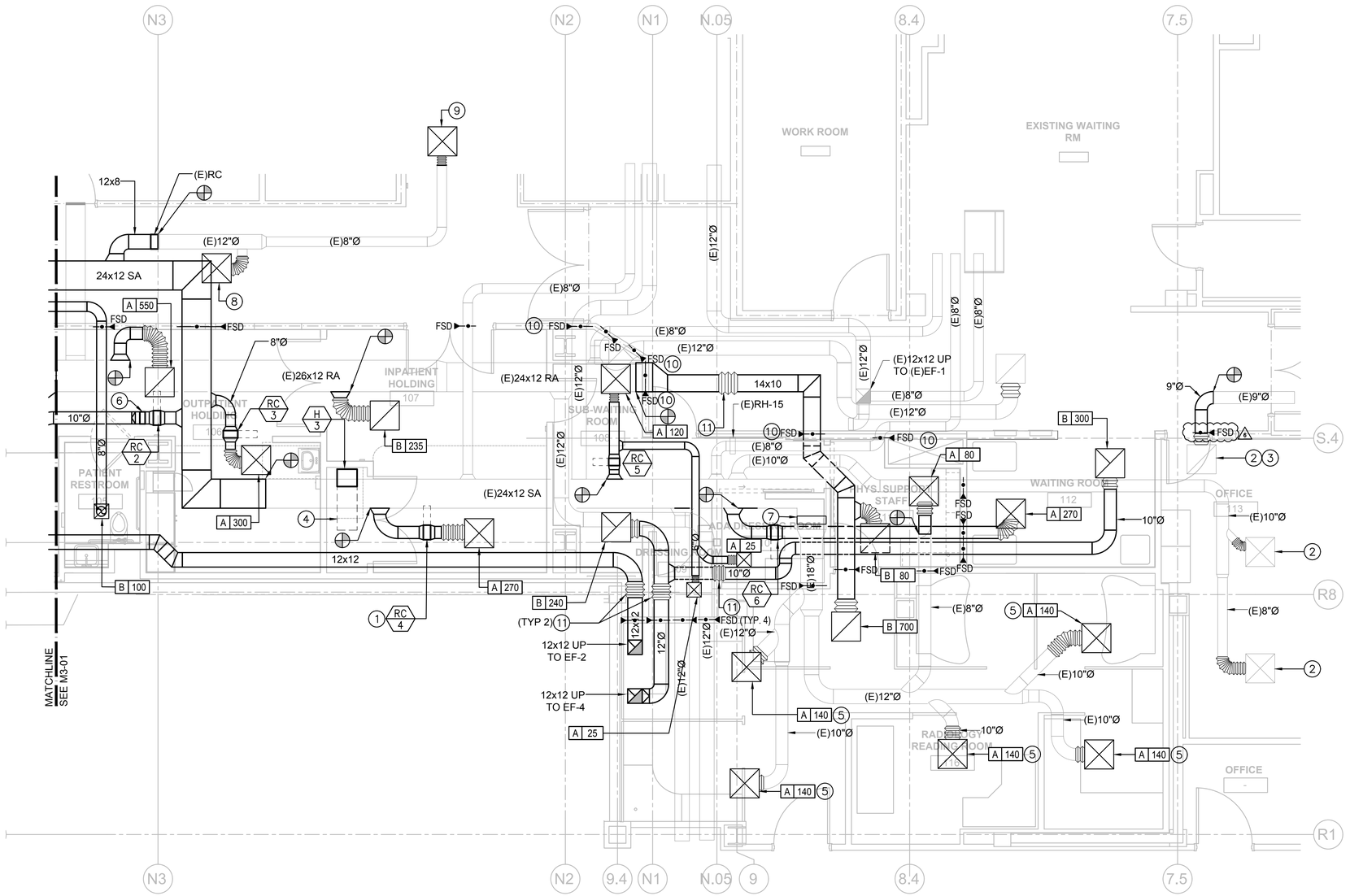
100% - CONSTRUCTION DOCUMENTS

GENERAL NOTES

1. EXISTING CONDITIONS SHOWN ARE BASED ON AVAILABLE AS-BUILT DRAWINGS AND LIMITED NON-DESTRUCTIVE SITE SURVEYS. VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION ACTIVITIES AND NOTIFY THE OWNER OF ANY CONDITIONS THAT DIFFER.
2. UTILITY SERVICES TO THE BUILDING SHALL NOT BE INTERRUPTED UNLESS APPROVED BY THE OWNER. PROVIDE MINIMUM 2 WEEK NOTIFICATION IN ADVANCE OF UTILITY OUTAGES.

KEY NOTES

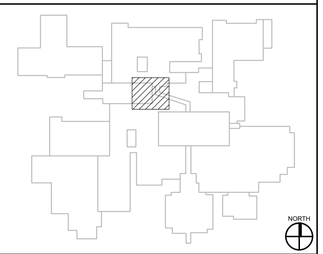
1. PROVIDE MINIMUM 24" SERVICE CLEARANCE FROM REHEAT COIL. (TYP)
2. BALANCE TO PRE-DEMOLITION READINGS.
3. RELOCATED GRILLE.
4. PROVIDE MINIMUM 36" FRONT CLEARANCE FOR HUMIDIFIER.
5. PROVIDE GRILLE. BALANCE AS INDICATED.
6. HUMIDIFIER DISPERSION GRID. PROVIDE HUMIDIFIER MFG RECOMMENDED STRAIGHT DUCT LENGTH DOWNSTREAM OF DISPERSION GRID.
7. EXISTING REHEAT COIL.
8. BALANCE TO 375 CFM
9. BALANCE TO 200 CFM
10. DEMOLISH AND INSTALL DUCTWORK AS REQUIRED TO ACCOMMODATE FIRE/SMOKE DAMPER INSTALLATION. TYPICAL ALL FIRE/SMOKE DAMPERS SHOWN IN EXISTING DUCTWORK.
11. PROVIDE FLEXIBLE EXPANSION JOINT. SEE 3/M5-02 FOR DETAIL.



1 MECHANICAL PLAN - AREA B
1/4" = 1'-0"

NORTH

KEY PLAN



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REGISTERED PROFESSIONAL ENGINEER FRANK SHADPOUR No. 23923 MECHANICAL EXP. 9-30-21 STATE OF CALIFORNIA

REV:	DESCRIPTION:	DATE:
1	OSHPD COMMENTS	8/3/2020
2	DESIGN CHANGES	8/10/2020
3	OSHPD COMMENTS	10/2/2020
4	OSHPD COMMENTS	11/24/2020
5	DESIGN CHANGES	11/24/2020
A 6	ACD 0001 DESIGN CHANGES	4/10/2021
A 7	ACD 0001 DESIGN CHANGES	5/5/2021

CONSULTANT

Shadpour Consulting Engineers, Inc.

OSHPD APPROVAL STAMP:

OSHPD #: S20813-37-00-ACD0001

SHEET TITLE:

MECHANICAL PLAN - AREA B

PROJECT TITLE:

TCMC MRI

PROJECT #: 01907.01
DRAWN BY: SC
CHECKED BY: JC
SCALE: PER TITLE
DATE: 3/11/2020

SHEET NUMBER: M3-02

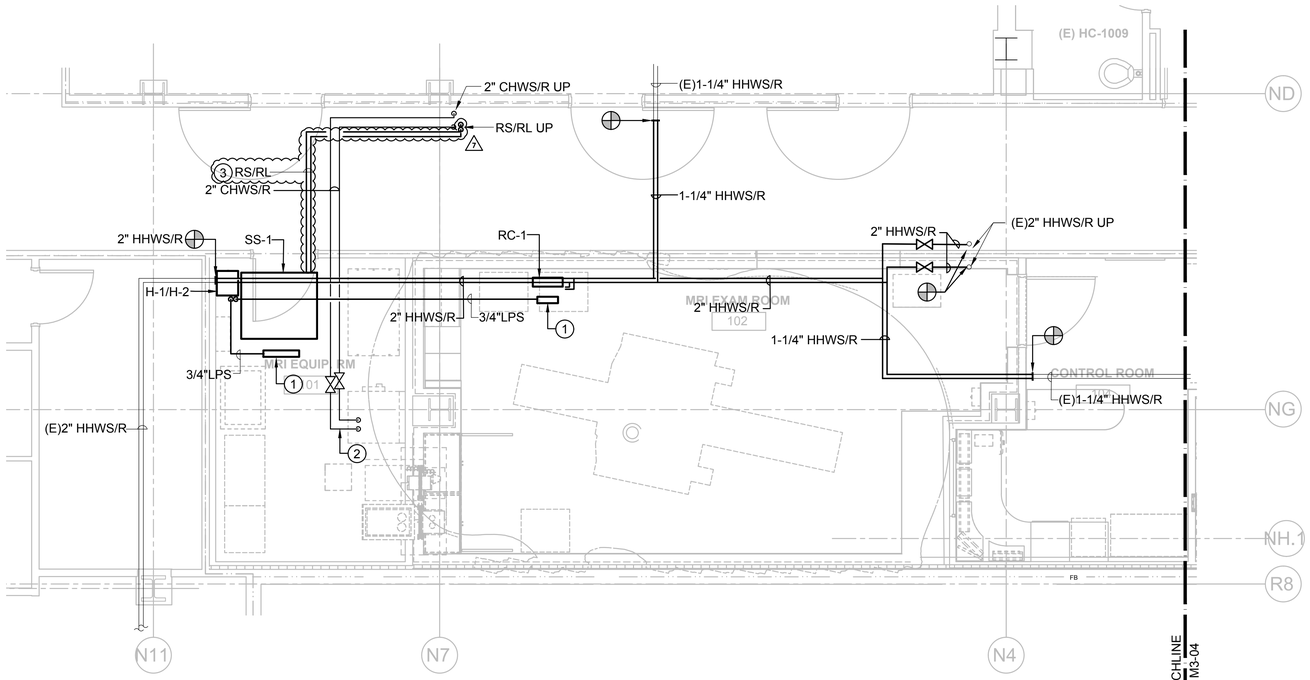
100% - CONSTRUCTION DOCUMENTS

GENERAL NOTES

1. EXISTING CONDITIONS SHOWN ARE BASED ON AVAILABLE AS-BUILT DRAWINGS AND LIMITED NON-DESTRUCTIVE SITE SURVEYS. VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION ACTIVITIES AND NOTIFY THE OWNER OF ANY CONDITIONS THAT DIFFER.
2. UTILITY SERVICES TO THE BUILDING SHALL NOT BE INTERRUPTED UNLESS APPROVED BY THE OWNER. PROVIDE MINIMUM 2 WEEK NOTIFICATION IN ADVANCE OF UTILITY OUTAGES.

KEY NOTES

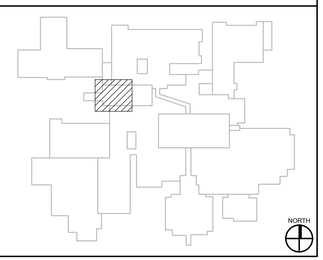
1. HUMIDIFIER DISPERSION GRID
2. 2" CHWS/R DOWN TO HEAT EXCHANGER CABINET
3. PROVIDE REFRIGERANT LEAK CONTAINMENT PIPING OVER CORRIDOR



1 MECHANICAL PIPING PLAN - AREA A
1/4" = 1'-0"

NORTH

KEY PLAN



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REGISTERED PROFESSIONAL ENGINEER — FRANK SHADPOUR — No. 33923 — MECHANICAL — EXP. 9-30-21 — STATE OF CALIFORNIA

REV:	DESCRIPTION:	DATE:
1	OSHPD COMMENTS	8/3/2020
2	DESIGN CHANGES	8/10/2020
3	OSHPD COMMENTS	10/2/2020
4	OSHPD COMMENTS	11/24/2020
5	DESIGN CHANGES	11/24/2020
6	ACD 0001 DESIGN CHANGES	4/10/2021
7	ACD 0001 DESIGN CHANGES	5/8/2021

CONSULTANT:

Shadpour Consulting Engineers, Inc.

OSHPD APPROVAL STAMP:

OSHPD #: S200813-37-00-ACD0001

SHEET TITLE:

MECHANICAL PIPING PLAN AREA A

PROJECT TITLE:

TCMC MRI

PROJECT #: 01907.01
DRAWN BY: SC
CHECKED BY: JC
SCALE: PER TITLE
DATE: 3/11/2020

SHEET NUMBER:

M3-03

100% - CONSTRUCTION DOCUMENTS

GENERAL NOTES

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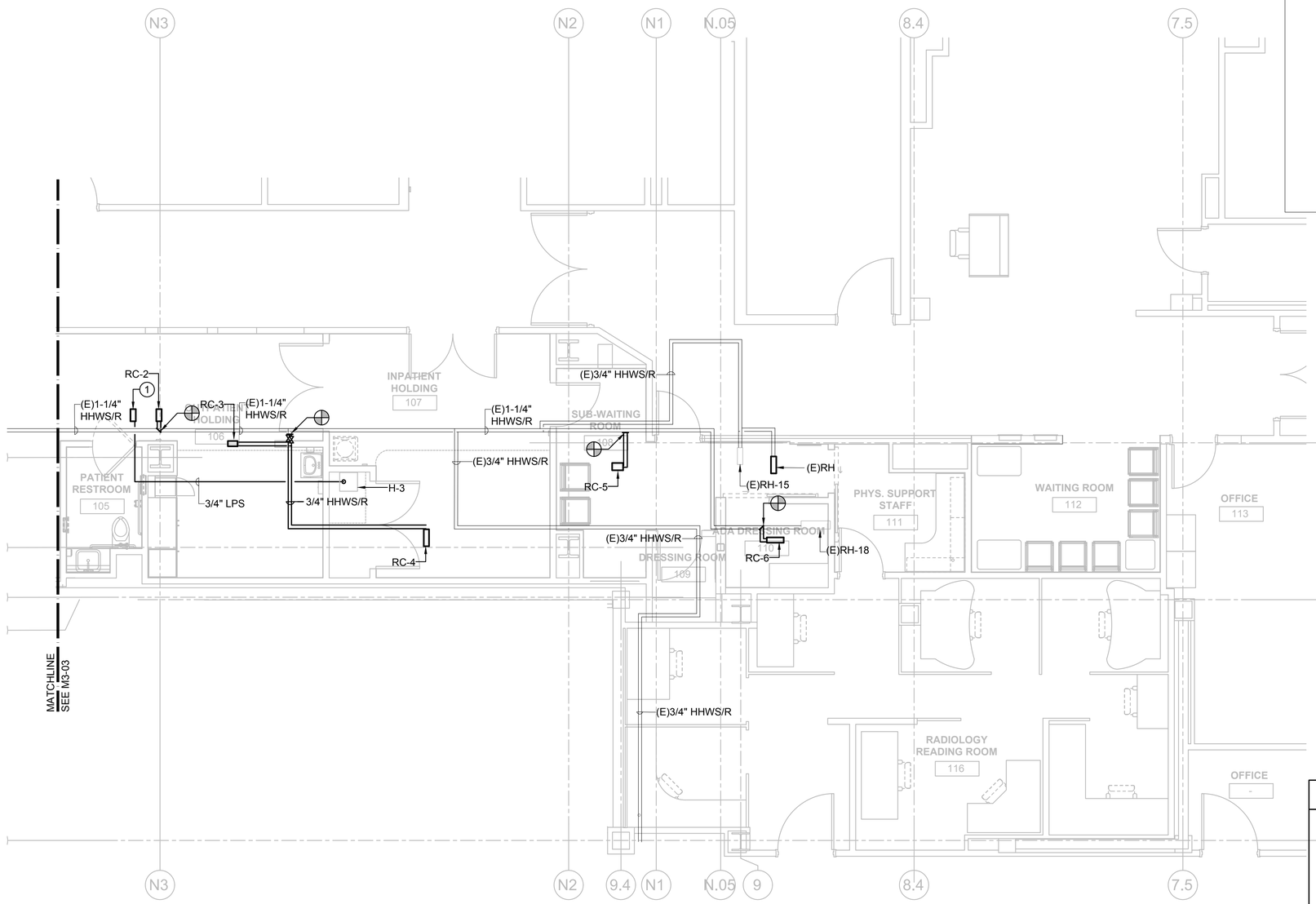
KEY NOTES

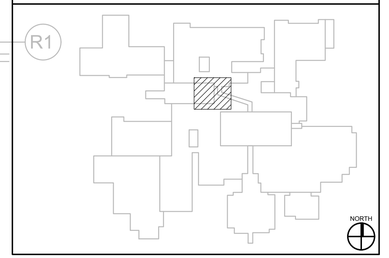
(1) HUMIDIFIER DISPERSION GRID



1 MECHANICAL PIPING PLAN - AREA B
1/4" = 1'-0"

NORTH

KEY PLAN



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7 7	ACD 0001 DESIGN CHANGES	5/8/2021

CONSULTANT

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OSHPD APPROVAL STAMP:

OSHPD #: S200813-37-00-ACD0001

SHEET TITLE:

MECHANICAL PIPING PLAN - AREA B

PROJECT TITLE:

TCMC MRI

PROJECT #: 01907.01
DRAWN BY: SC
CHECKED BY: JC
SCALE: PER TITLE
DATE: 3/11/2020

SHEET NUMBER: M3-04

100% - CONSTRUCTION DOCUMENTS

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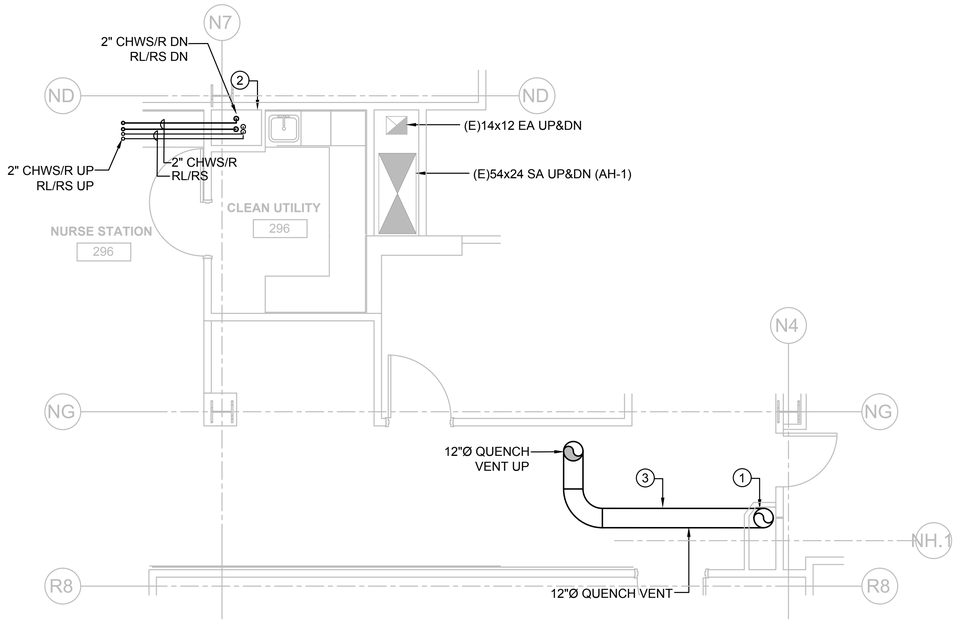
KEY NOTES

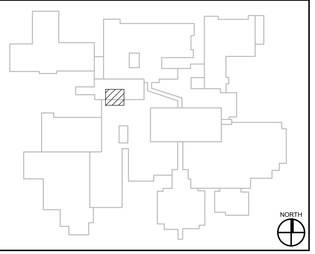
1. 12" QUENCH VENT DOWN.
2. MAINTAIN SPACE FOR FUTURE MRI ROOM PIPING.
3. PROVIDE 2 HOUR FIRE WRAP



1 MECHANICAL 2ND FLOOR PLAN
1/4" = 1'-0"

NORTH

KEY PLAN



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REGISTERED PROFESSIONAL ENGINEER — FRANK SHADPOUR — No. 33923 — MECHANICAL — EXP. 9-30-21 — STATE OF CALIFORNIA

REV:	DESCRIPTION:	DATE:
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2	DESIGN CHANGES	8/10/2020
3	OSHPD COMMENTS	10/2/2020
4	OSHPD COMMENTS	11/24/2020
5	DESIGN CHANGES	11/24/2020
6	ACD 0001 DESIGN CHANGES	4/10/2021
7	ACD 0001 DESIGN CHANGES	5/8/2021

CONSULTANT:
Shadpour Consulting Engineers, Inc.

OSHPD APPROVAL STAMP:
OSHPD #: S200813-37-00-ACD0001

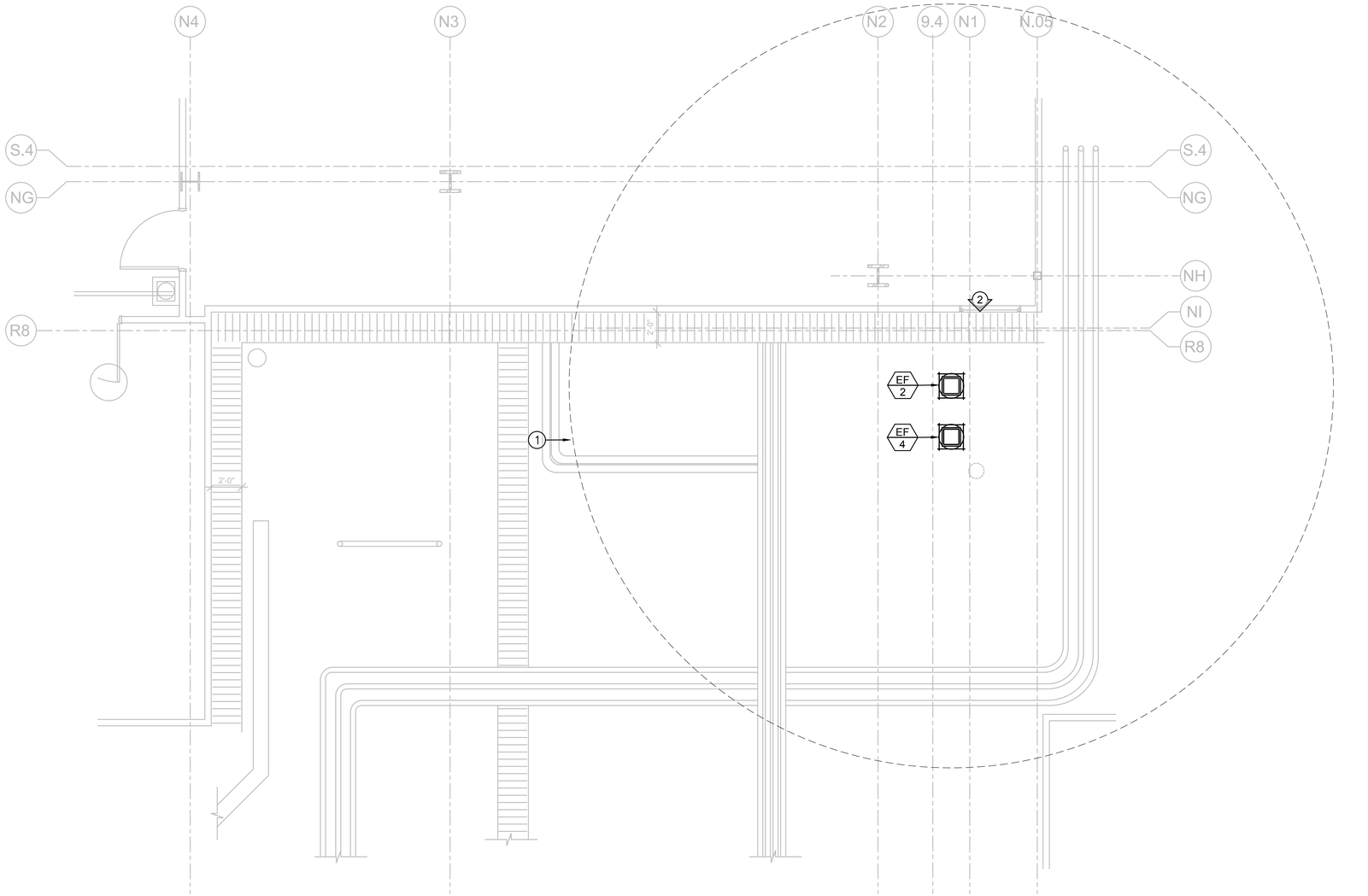
SHEET TITLE:
MECHANICAL 2ND FLOOR PLAN

PROJECT TITLE:
TCMC MRI

PROJECT #: 01907.01
DRAWN BY: SC
CHECKED BY: JC
SCALE: PER TITLE
DATE: 3/11/2020

SHEET NUMBER:
M3-05

100% - CONSTRUCTION DOCUMENTS



1 MECHANICAL 1ST FLOOR ROOF PLAN
1/4" = 1'-0"

NORTH

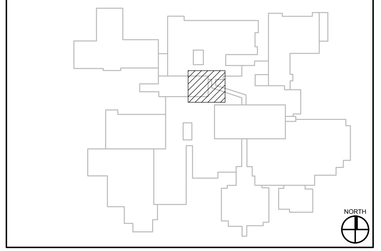
GENERAL NOTES

1. EXISTING CONDITIONS SHOWN ARE BASED ON AVAILABLE AS-BUILT DRAWINGS AND LIMITED NON-DESTRUCTIVE SITE SURVEYS. VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION ACTIVITIES AND NOTIFY THE OWNER OF ANY CONDITIONS THAT DIFFER.
2. UTILITY SERVICES TO THE BUILDING SHALL NOT BE INTERRUPTED UNLESS APPROVED BY THE OWNER. PROVIDE MINIMUM 2 WEEK NOTIFICATION IN ADVANCE OF UTILITY OUTAGES.

KEY NOTES

(1) LOCATE A MINIMUM OF 25' FROM ALL OUTSIDE AIR INTAKES.

KEY PLAN



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TEL(714)545-7700

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TEL(760)484-0455

LICENSED ARCHITECT — JOSEPH MICHAEL SFEIR — No. C 28543 — REN. 1-31-21 — STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER — FRANK SHADPOUR — No. 33923 — MECHANICAL — EXP. 9-30-21 — STATE OF CALIFORNIA

REV:	DESCRIPTION:	DATE:
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4	OSHPD COMMENTS	11/24/2020
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7	ACD 0001 DESIGN CHANGES	5/8/2021

CONSULTANT:
Shadpour Consulting Engineers, Inc.

OSHPD APPROVAL STAMP:
OSHPD #: S200813-37-00-ACD0001

SHEET TITLE:
MECHANICAL ROOF PLAN

PROJECT TITLE:
TCMC MRI

PROJECT #: 01907.01
DRAWN BY: SC
CHECKED BY: JC
SCALE: PER TITLE
DATE: 3/11/2020

SHEET NUMBER:
M3-06

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GENERAL NOTES

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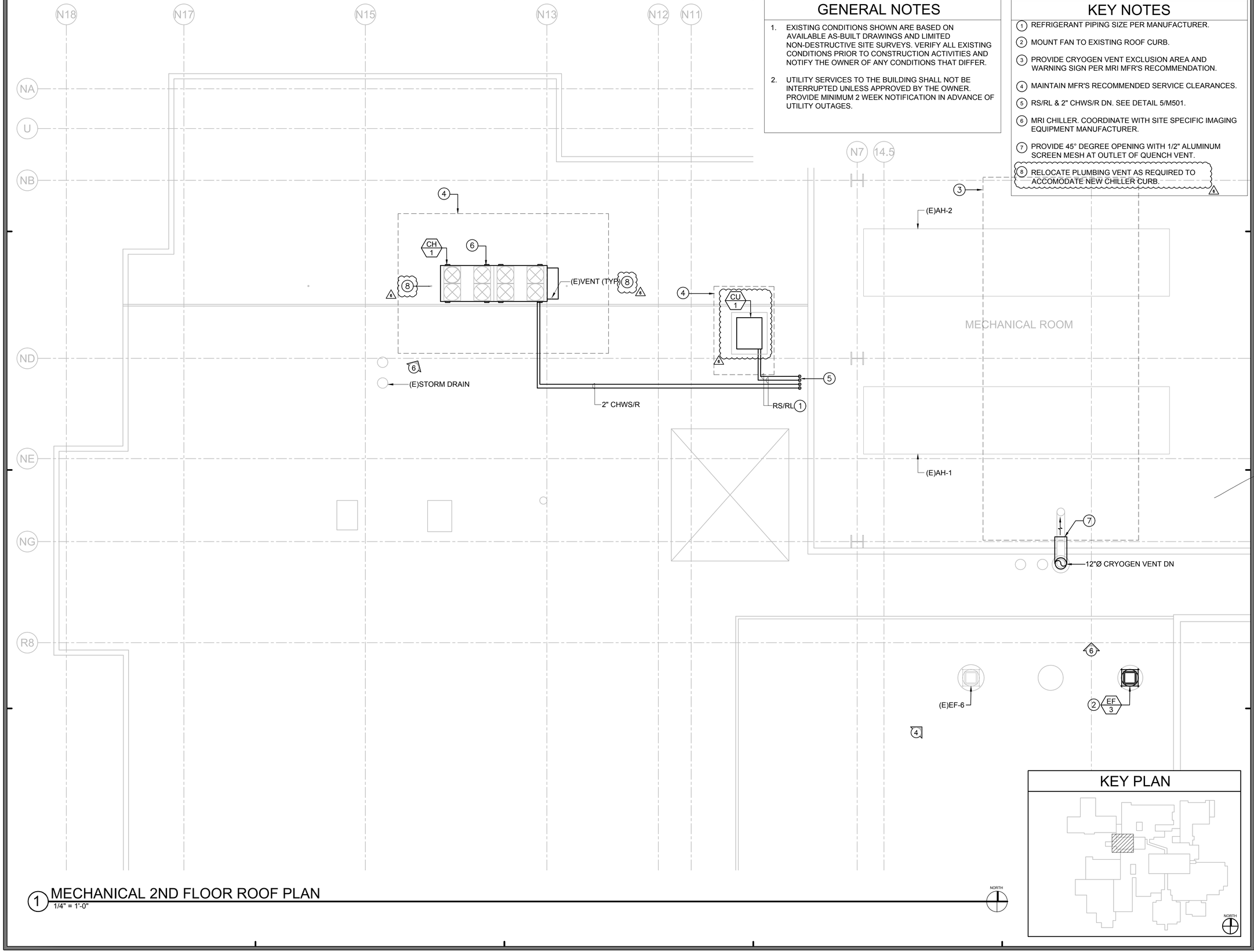
2. UTILITY SERVICES TO THE BUILDING SHALL NOT BE INTERRUPTED UNLESS APPROVED BY THE OWNER. PROVIDE MINIMUM 2 WEEK NOTIFICATION IN ADVANCE OF UTILITY OUTAGES.

KEY NOTES

1. REFRIGERANT PIPING SIZE PER MANUFACTURER.
2. MOUNT FAN TO EXISTING ROOF CURB.
3. PROVIDE CRYOGEN VENT EXCLUSION AREA AND WARNING SIGN PER MRI MFR'S RECOMMENDATION.
4. MAINTAIN MFR'S RECOMMENDED SERVICE CLEARANCES.
5. RS/RL & 2" CHWS/R DN. SEE DETAIL 5/M501.
6. MRI CHILLER. COORDINATE WITH SITE SPECIFIC IMAGING EQUIPMENT MANUFACTURER.
7. PROVIDE 45° DEGREE OPENING WITH 1/2" ALUMINUM SCREEN MESH AT OUTLET OF QUENCH VENT.
8. RELOCATE PLUMBING VENT AS REQUIRED TO ACCOMODATE NEW CHILLER CURB.



1 MECHANICAL 2ND FLOOR ROOF PLAN
1/4" = 1'-0"

NORTH

KEY PLAN

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7	ACD 0001 DESIGN CHANGES	5/8/2021

CONSULTANT

Shadpour Consulting Engineers, Inc.

OSHPD APPROVAL STAMP:

OSHPD #: S20813-37-00-ACD0001

SHEET TITLE:

MECHANICAL ROOF PLAN

PROJECT TITLE:

TCMC MRI

PROJECT #: 01907.01
DRAWN BY: SC
CHECKED BY: JC
SCALE: PER TITLE
DATE: 3/11/2020

SHEET NUMBER:

M3-07

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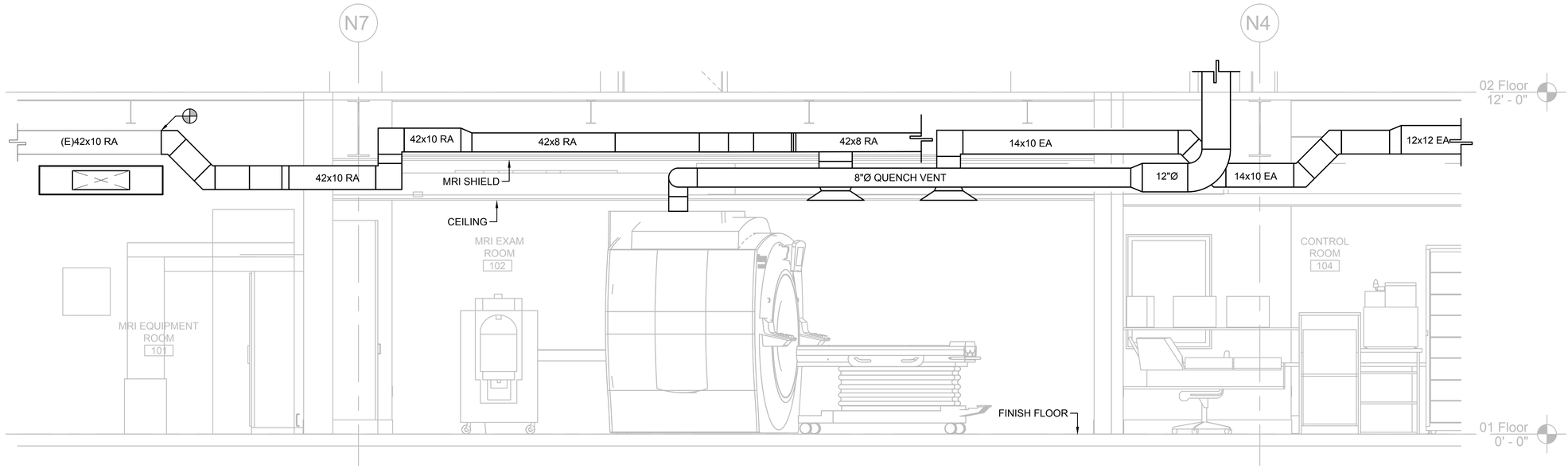
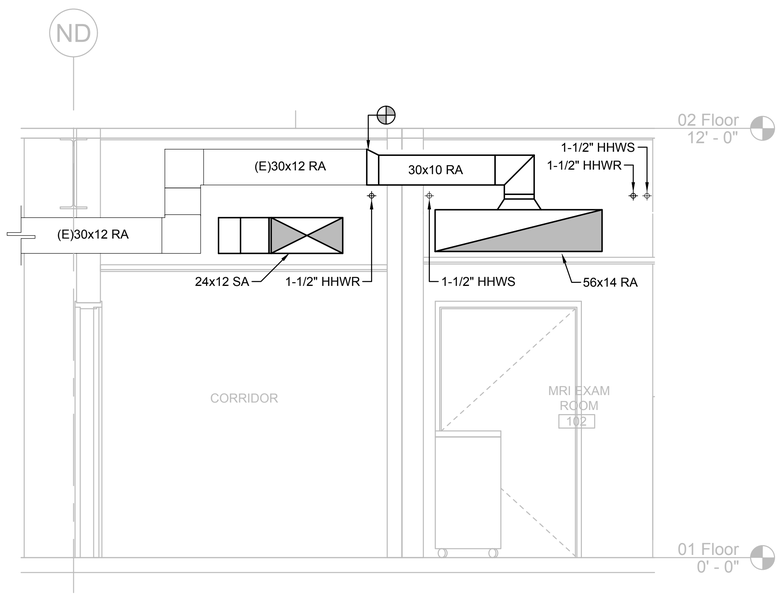
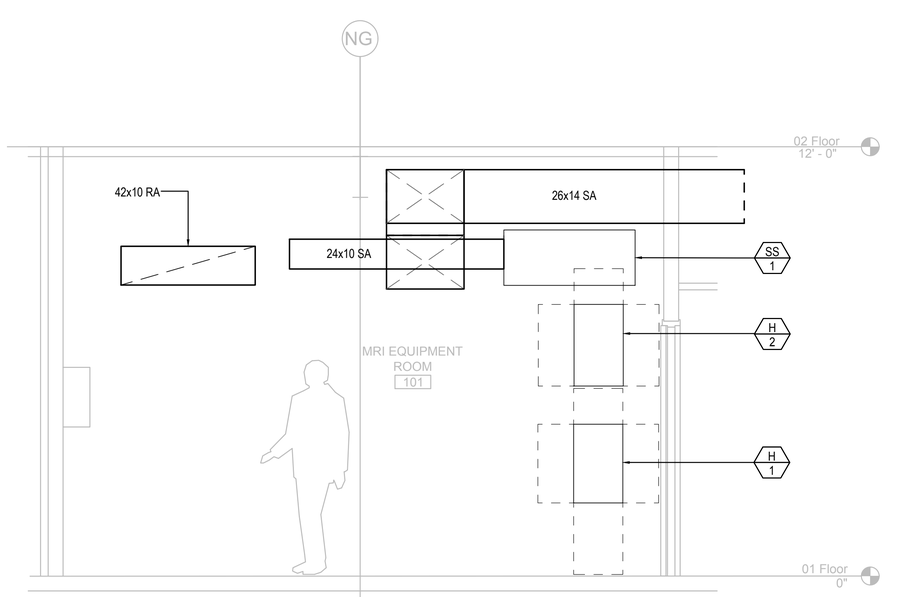


1 MECHANICAL SECTION
1/2" = 1'-0"



2 MECHANICAL SECTION
1/2" = 1'-0"



3 MECHANICAL SECTION
1/2" = 1'-0"

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7	ACD 0001 DESIGN CHANGES	5/5/2021

REV: DESCRIPTION: DATE:

CONSULTANT

Shadpour Consulting Engineers, Inc.

OSHPD APPROVAL STAMP:

OSHPD #: S20813-37-00-ACD0001

SHEET TITLE:

MECHANICAL SECTIONS

PROJECT TITLE:

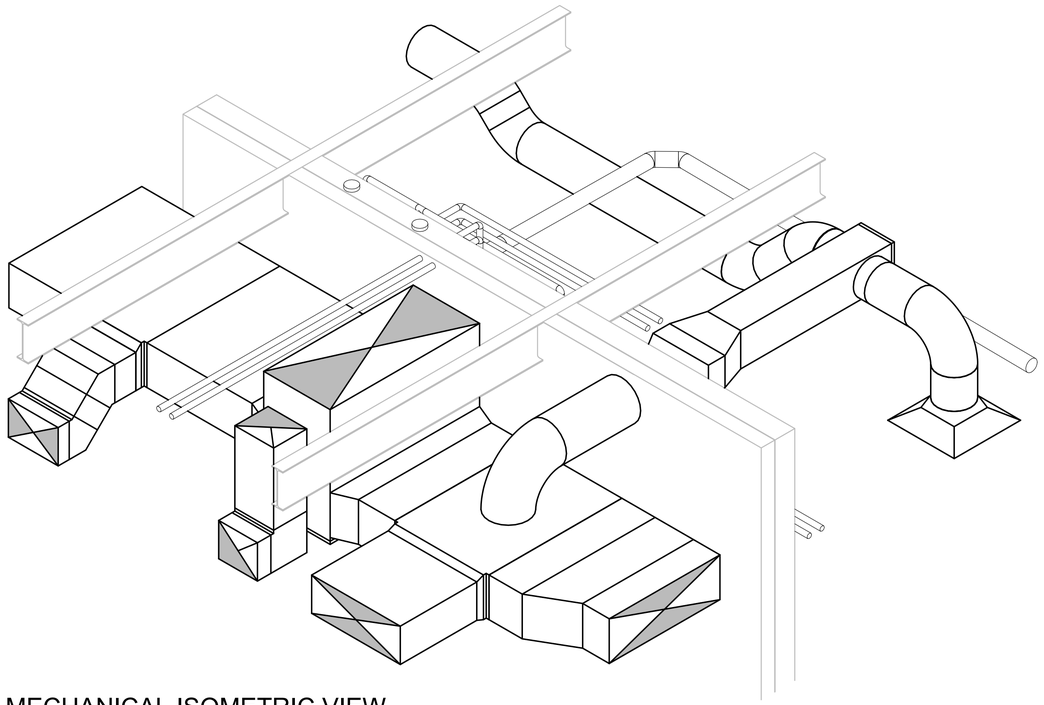
TCMC MRI

PROJECT #: 01907.01
DRAWN BY: SC
CHECKED BY: JC
SCALE: PER TITLE
DATE: 3/11/2020

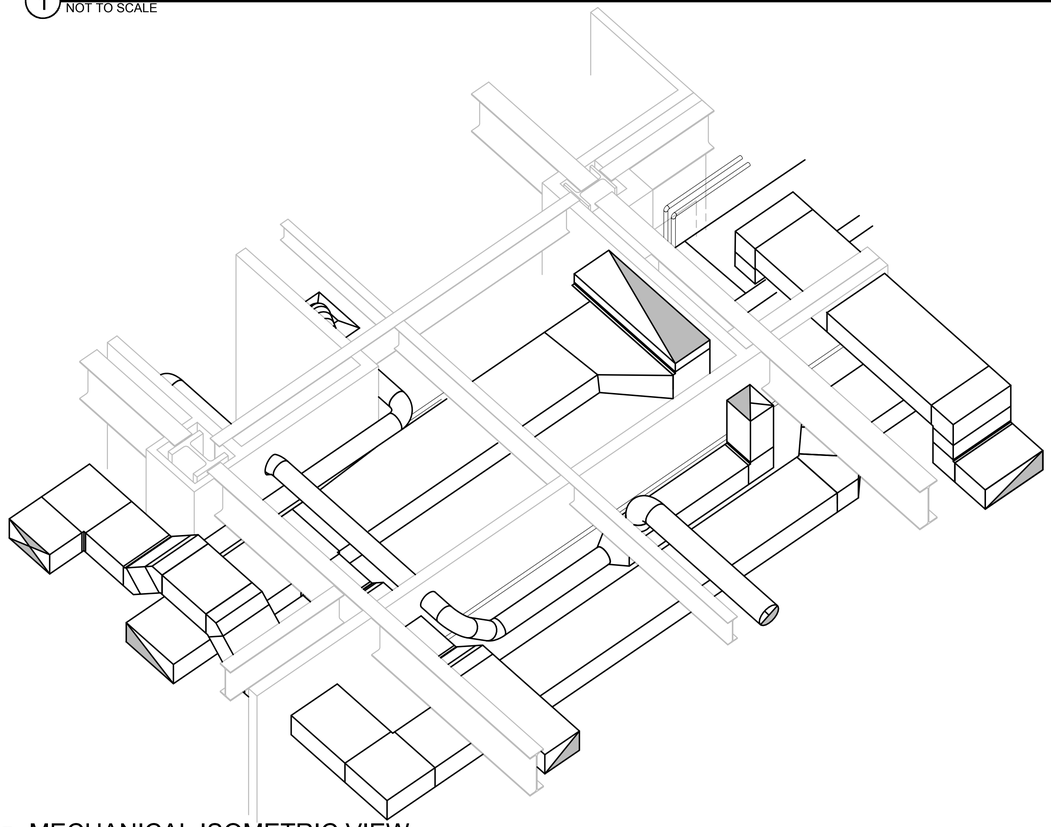
SHEET NUMBER:

M4-01

100% - CONSTRUCTION DOCUMENTS



1 MECHANICAL ISOMETRIC VIEW
NOT TO SCALE



2 MECHANICAL ISOMETRIC VIEW
NOT TO SCALE

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INTERIORS:	ISLEY DESIGN & PLANNING 1982 PALSERO AVENUE ESCONDIDO, CA 92029 TEL(760)484-0455

LICENSED ARCHITECT JOSEPH MICHAEL SFEIR No. C 28543 REN. 1-31-23 STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER RAMIN SHADPOUR No. 33923 MECHANICAL EXP. 9-30-21 STATE OF CALIFORNIA

REV	DESCRIPTION:	DATE:
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CONSULTANT

Shadpour Consulting Engineers, Inc.

OSHPD APPROVAL STAMP:

OSHPD #: S200813-37-00-ACD0001

SHEET TITLE:

MECHANICAL ISOMETRIC VIEW

PROJECT TITLE:

TCMC MRI

PROJECT #: 01907.01
DRAWN BY: SC
CHECKED BY: JC
SCALE: PER TITLE
DATE: 3/11/2020

SHEET NUMBER: M4-02

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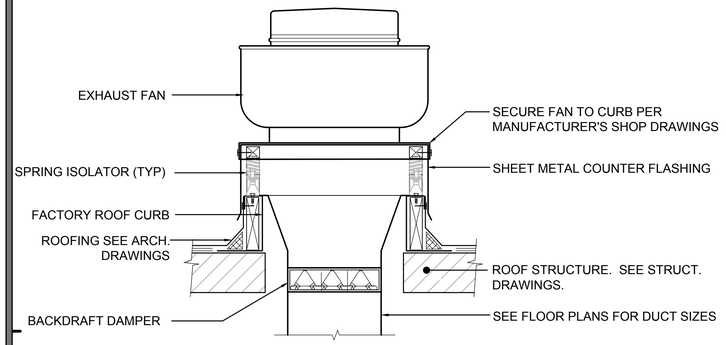
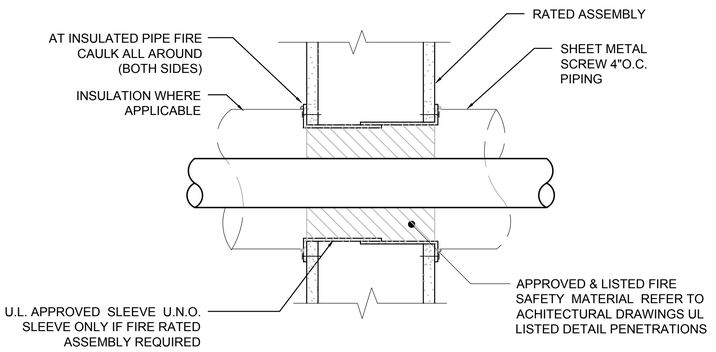


EXHAUST FAN MOUNTING DETAIL

SCALE: NONE

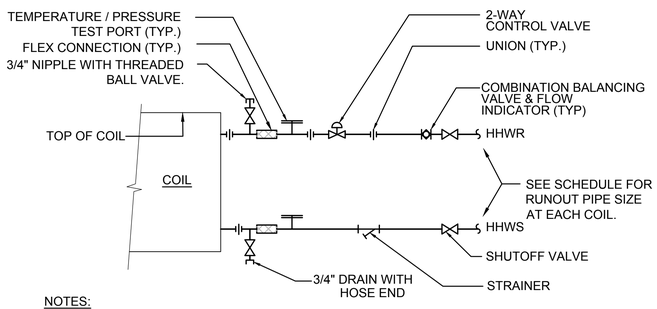
7 / M5-01



PIPE THRU FIRE-RATED WALL

SCALE: NONE

4 / M5-01



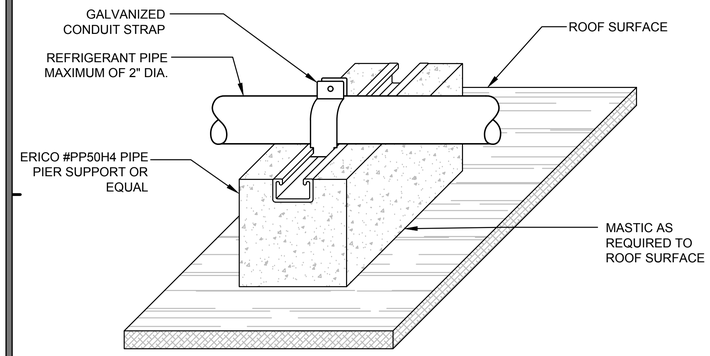
NOTES:

1. CONTROL VALVE SHALL BE NORMALLY CLOSED.
2. SUPPORT PIPING FROM FLOOR/CEILING STRUCTURE. IN NO CASE SHALL WEIGHT OF PIPING BE CARRIED BY COIL. SEISMICALLY BRACE ALL PIPING.

HEATING COIL DIAGRAM

SCALE: NONE

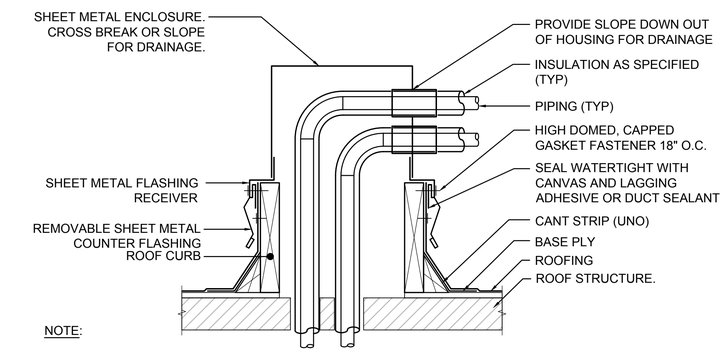
1 / M5-01



ROOF PIPE SUPPORT DETAIL

SCALE: NONE

8 / M5-01



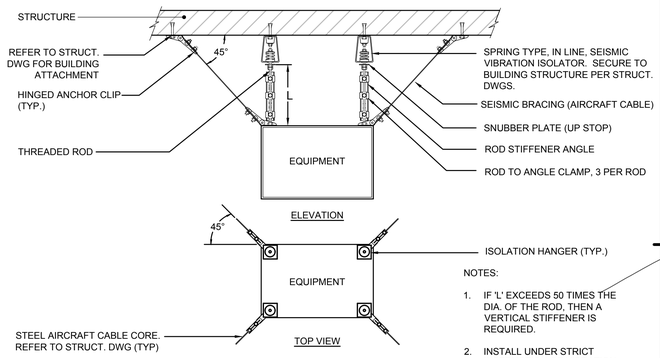
NOTE:

HOUSING SUPPORTS MULTIPLE PIPE PENETRATIONS. LENGTH AND WIDTH OF HOUSING DEPENDS ON QUANTITY, SIZES AND CONFIGURATION OF PIPING. REFER TO MECHANICAL ROOF PLAN. PROVIDE SPACE FOR FUTURE (2)RL, (2)RS, & 2" CHWR/S.

PIPING ROOF PENETRATION DETAIL

SCALE: NONE

5 / M5-01



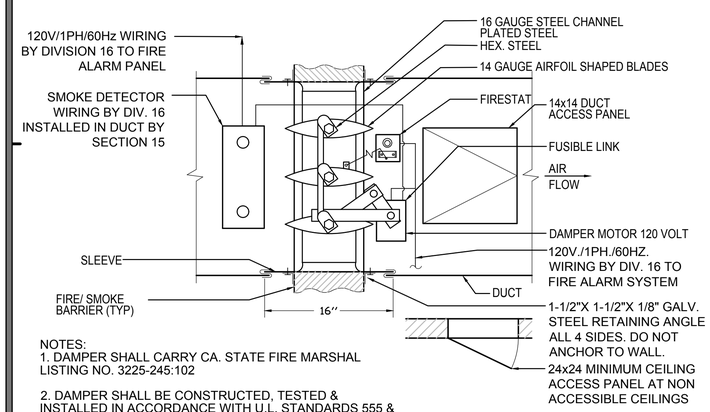
NOTES:

1. IF 'L' EXCEEDS 50 TIMES THE DIA. OF THE ROD, THEN A VERTICAL STIFFENER IS REQUIRED.
2. INSTALL UNDER STRICT INSTRUCTION OF VIBRATION ISOLATION MFGR.
3. EXACT NUMBER OF SUSPENSION POINTS PER MANUFACTURER.

EQUIPMENT HANGING DETAIL (SS-1)

SCALE: NONE

2 / M5-01



NOTES:
1. DAMPER SHALL CARRY CA. STATE FIRE MARSHAL LISTING NO. 3225-245:102

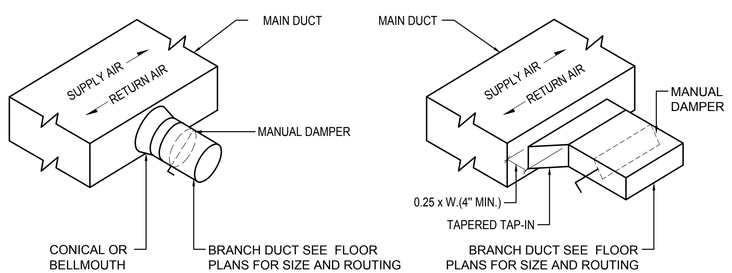
2. DAMPER SHALL BE CONSTRUCTED, TESTED & INSTALLED IN ACCORDANCE WITH U.L. STANDARDS 555 & 555S.

3. ELECTRIC OPERATOR SHALL CARRY CA. STATE FIRE MARSHAL LISTING NO. 7481-245:100.

FIRE/SMOKE DAMPER DETAIL

SCALE: NONE

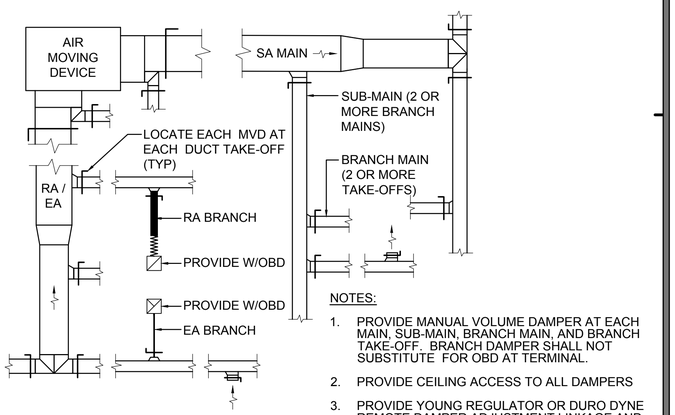
9 / M5-01



DUCT CONNECTION DETAIL

SCALE: NONE

6 / M5-01



NOTES:

1. PROVIDE MANUAL VOLUME DAMPER AT EACH MAIN, SUB-MAIN, BRANCH MAIN, AND BRANCH TAKE-OFF. BRANCH DAMPER SHALL NOT SUBSTITUTE FOR OBD AT TERMINAL.
2. PROVIDE CEILING ACCESS TO ALL DAMPERS
3. PROVIDE YOUNG REGULATOR OR DURO DYNE REMOTE DAMPER ADJUSTMENT LINKAGE AND CEILING ACCESS PLATE ASSEMBLY FROM CEILING AT HARD CEILINGS.

MANUAL VOLUME DAMPER

SCALE: NONE

3 / M5-01

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6	ACD 0001 DESIGN CHANGES	4/10/2021
7	ACD 0001 DESIGN CHANGES	5/8/2021

CONSULTANT:

Shadpour Consulting Engineers, Inc.

OSHPD APPROVAL STAMP:

OSHPD #: S200813-37-00-ACD0001

SHEET TITLE:

MECHANICAL DETAILS

PROJECT TITLE:

TCMC MRI

PROJECT #: 01907.01
DRAWN BY: SC
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SCALE: PER TITLE
DATE: 3/11/2020

SHEET NUMBER: M5-01

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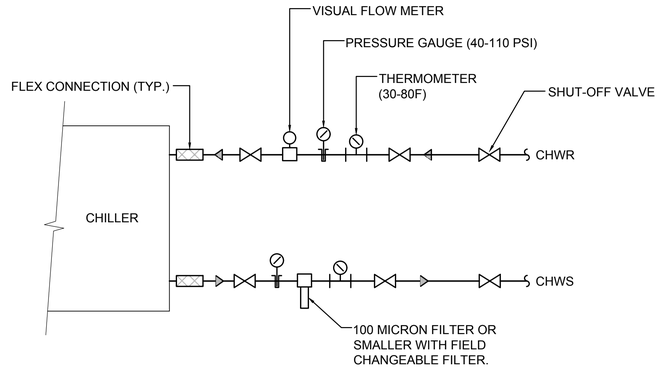


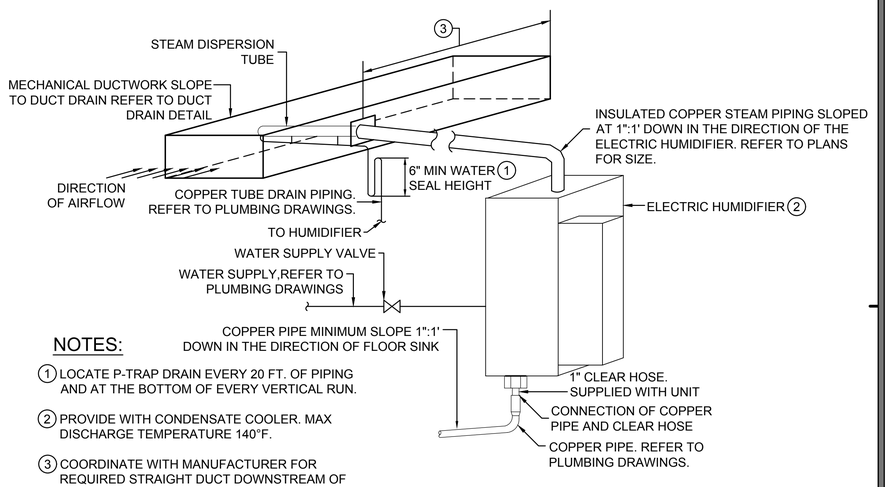
NOTES:

1. SUPPORT PIPING FROM STRUCTURE. IN NO CASE SHALL WEIGHT OF PIPING BE CARRIED BY CHILLER. SEISMICALLY BRACE ALL PIPING.
2. COORDINATE WITH MRI MANUFACTURER

MRI EQUIPMENT/MRI CHILLER CHW PIPING DETAIL

SCALE: NONE

4 M5-02



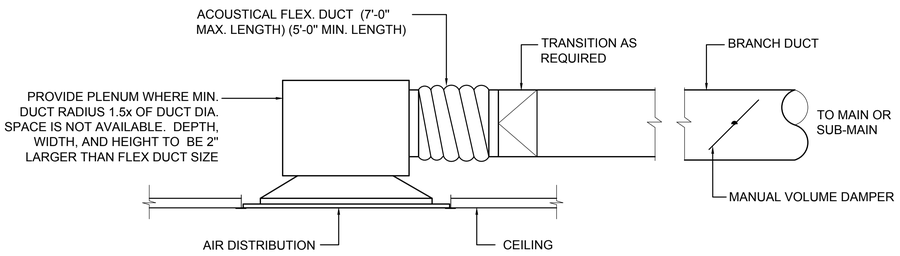
NOTES:

1. LOCATE P-TRAP DRAIN EVERY 20 FT. OF PIPING AND AT THE BOTTOM OF EVERY VERTICAL RUN.
2. PROVIDE WITH CONDENSATE COOLER. MAX DISCHARGE TEMPERATURE 140°F.
3. COORDINATE WITH MANUFACTURER FOR REQUIRED STRAIGHT DUCT DOWNSTREAM OF DISPERSION TUBE.

ELECTRIC STEAM HUMIDIFIER DETAIL

SCALE: NONE

1 M5-02



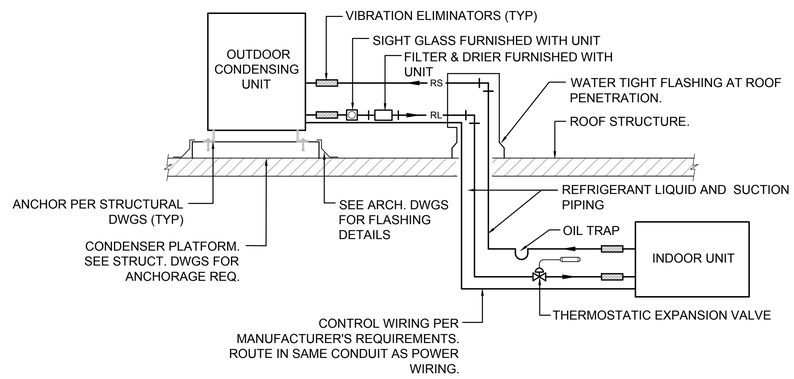
BRANCH DUCT SIZES SUPPLY AIR	
MAX. CFM	SIZE
0-95	6"Ø
96-210	8"Ø
211-370	10"Ø
371-600	12"Ø
601-900	14"Ø
901-1290	16"Ø
1291-1750	18"Ø
1751-2300	20"Ø

BRANCH DUCT SIZES RETURN/EXHAUST AIR	
MAX. CFM	SIZE
0-50	6"Ø
51-190	8"Ø
191-340	10"Ø
341-560	12"Ø
561-840	14"Ø
841-1190	16"Ø
1191-1610	18"Ø
1611-2150	20"Ø

AIR DISTRIBUTION CONNECTION DETAIL

SCALE: NONE

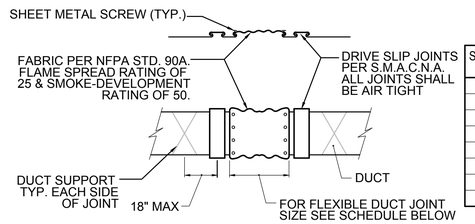
5 M5-02



REFRIGERANT PIPING DETAIL

SCALE: NONE

2 M5-02



SEISMIC JOINT SIZE	DUCTWORK FLEXIBLE JOINT SIZE
4"	8"
5"	10"
6"	12"
7"	14"
8"	16"
9"	18"
10"	20"
11"	22"

DUCT CONNECTION AT EXPANSION JOINT

SCALE: NONE

3 M5-02

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REGISTERED PROFESSIONAL ENGINEER FRANK SHADPOUR No. 33923 MECHANICAL EXP. 9-30-21 STATE OF CALIFORNIA

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4	OSHPD COMMENTS	11/24/2020
5	DESIGN CHANGES	11/24/2020
6	ACD 0001 DESIGN CHANGES	4/10/2021
7	ACD 0001 DESIGN CHANGES	5/8/2021

CONSULTANT:

Shadpour Consulting Engineers, Inc.

OSHPD APPROVAL STAMP:

OSHPD #: S200813-37-00-ACD0001

SHEET TITLE:

MECHANICAL DETAILS

PROJECT TITLE:

TCMC MRI

PROJECT #: 01907.01
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CHECKED BY: JC
SCALE: PER TITLE
DATE: 3/11/2020

SHEET NUMBER:

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100% - CONSTRUCTION DOCUMENTS

EXHAUST FAN SCHEDULE

SYMBOL	LOCATION	AREA SERVED	CFM	ESP (IN W.G.)	DRIVE	RPM	MOTOR					EMERGENCY POWER	OSP NUMBER	OPER WEIGHT (LBS)	MTG DETAIL	REMARKS
							BHP	HP	V	Ø	Hz					
EF 2	ROOF	MRI ROOM	1,200	0.7	DIRECT	1725	0.24	1/2	120	1	60	YES	0148-10	90	7/M5-01	1 2
EF 3	ROOF	PATIENT RESTROOM	300	1.6	DIRECT	2500	0.24	1/2	120	1	60	YES	0148-10	90	7/M5-01	1
EF 4	ROOF	WAITING ROOM	540	0.7	DIRECT	1725	0.15	1/4	120	1	60	YES	0148-10	60	7/M5-01	1

1 PROVIDE W/BACKDRAFT DAMPER 2 EMERGENCY EXHAUST FAN. PROVIDE MANUAL FAN SWITCH NEAR OPERATOR WORKSPACE AND IN MAGNET ROOM WIRED IN PARALLEL PER MFR REQUIREMENTS.

REHEAT COIL SCHEDULE

SYMBOL	DESCRIPTION	MODEL	CFM	COIL SIZE (H"xL")	MAX FACE VEL. (FPM)	MAX TOTAL PD (IN W.G.)	MIN. NO. OF ROWS	CAPACITY (MBH)	EWT (°F)	LWT (°F)	EAT (°F)	LAT (°F)	GPM	BRANCH SIZE (IN)	MAX WATER PD (FT)	OPER WEIGHT (LBS)	REMARKS
RC 1	HYDRONIC HEATING COIL	TRANE-TYPE 5W	800	12x20	500	0.15	2	30.2	180	160	55	90	3.0	1	3	45	1
RC 2	HYDRONIC HEATING COIL	TRANE-TYPE ST	350	12x12	500	0.15	2	13.2	180	160	55	90	1.3	3/4	3	20	1
RC 3	HYDRONIC HEATING COIL	TRANE-TYPE ST	300	6x12	500	0.15	2	11.3	180	160	55	90	1.1	3/4	3	15	1
RC 4	HYDRONIC HEATING COIL	TRANE-TYPE ST	270	9x9	500	0.15	2	10.2	180	160	55	90	1.0	3/4	3	15	1
RC 5	HYDRONIC HEATING COIL	TRANE-TYPE ST	170	6x9	500	0.15	2	6.4	180	160	55	90	0.6	3/4	3	10	1
RC 6	HYDRONIC HEATING COIL	TRANE-TYPE ST	270	9x9	500	0.15	2	10.2	180	160	55	90	1.1	3/4	3	15	1

1 COPPER TUBE, ALUMINUM FIT, HOT WATER COIL

SPLIT SYSTEM SCHEDULE

SYMBOL	DESCRIPTION	AREA SERVED	INDOOR FAN SECTION								EMERG. POWER	SYMBOL	DESCRIPTION	OUTDOOR SECTION					COOLING CAP.				HEATING CAP.		REFRIGERANT TYPE	OSP NUMBER	MTG DETAIL	EMERGENCY POWER	REMARKS
			MIN CFM	ESP (IN WC)	DRIVE	MCA	V	Ø	Hz	OPER WEIGHT (LBS)				MCA	V	Ø	Hz	OPER WEIGHT (LBS)	TOTAL CAP. (MBH)	AMB (°F)	ENT DB (°F)	ENT WB (°F)	TOTAL CAP. (MBH)	AMB (°F)					
SS 1	MITSUBISHI TPEFYP072	EQUIPMENT RM 1	1,760	0.2	DIRECT	7.7	208	1	60	214	YES	CU 1	MITSUBISHI TUHYP072	11	480	3	60	479	72	95	80	67	N/A	N/A	R-410A	OSP-0537	2/M5.01 2/M5.02	YES	1 2
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

1 PROVIDE MERV 8 FILTER 2 PROVIDE SEPARATE WALL MOUNTED TEMPERATURE SENSOR IN ROOM FOR MONITORING BY DDC SYSTEM.

HUMIDIFIER SCHEDULE

SYMBOL	DESCRIPTION	MODEL	AREA SERVED	HUMIDIFIER LOAD (LBS/HR)	ELECTRICAL						OPER. WEIGHT	EMERGENCY POWER	OSP NUMBER	MTG. DETAIL	REMARKS
					kW	V	Ø	Hz	MCA	MOCP					
H 1	ELECTRODE STEAM GENERATOR HUMIDIFIER	NORTEC-CONDAIR EL-005	EQUIPMENT ROOM	1.9	1.9	120	1	60	15.6	20	55 6	YES	OSP-0225-10	4/S4-1	1 2 3 5 6
H 2	ELECTRODE STEAM GENERATOR HUMIDIFIER	NORTEC-CONDAIR EL-010	MRI ROOM	7.2	3.7	208	1	60	18.0	25	55	YES	OSP-0225-10	4/S4-1	1 2 3 5 6
H 3	ELECTRODE STEAM GENERATOR HUMIDIFIER	NORTEC-CONDAIR EL-005	CONTROL ROOM	3.0	1.9	120	1	60	15.6	20	55	YES	OSP-0225-10	4/S4-1	1 2 3 5 6

1 WALL MOUNT INSTALLATION 2 PROVIDE DUCT HIGH LIMIT HUMIDISTAT AND AIRFLOW PROVING SWITCH. 3 PROVIDE FACTORY MOUNTED CONTROLS FOR INTEGRATION INTO EXISTING BUILDING MANAGEMENT SYSTEM. 4 -
5 PROVIDE MANUFACTURER'S STAINLESS STEEL DISPERSION TUBE FOR DISPERSION INTO SA DUCT 6 PROVIDE MFG CONDENSATE COOLER

MRI CHILLER SCHEUDLE (FOR REFERENCE ONLY. CHILLER DESIGNED BY GE MEDICAL)

SYMBOL	DESCRIPTION	AREA SERVED	NOMINAL CAPACITY (TONS)	RATED CAPACITY (TONS)	REFRIGERANT TYPE	EVAPORATOR DATA			CONDENSER DATA						TOTAL UNIT ELECTRICAL DATA					EMERGENCY POWER	MAX OPERATING WEIGHT (LBS)	REMARKS
						GPM	EWT (°F)	LWT (°F)	AMB (°F)	QTY	HP	V	Ø	Hz	DISC FULL	FLA	V	Ø	Hz			
CH 1	ROOF MOUNTED AIR COOLED CHILLER	MRI MACHINE	30	20	R407C	35	63.7	50	122	8	1/2	460	3	60	100A	91A	460	3	60	YES	4300	1 2 3 4 7

1 COORDINATE WITH SITE SPECIFIC IMAGING EQUIPMENT MANUFACTURER FOR ACTUAL CHILLER MODEL REQUIRED. 2 SYSTEM PROVIDED WITH TWO 3 HP CHILLED WATER PUMPS. 3 PROVIDED BY GE
4 CONTRACTOR TO FILL CHILLED WATER SYSTEM. FILL SYSTEM WITH MIXTURE OF 40% PROPYLENE GLYCOL. CHILLED WATER QUALITY TO MEET REQUIREMENTS NOTED IN MRI INSTALLATION GUIDE. 7

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CONSULTANT

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MECHANICAL SCHEDULES

PROJECT TITLE:

TCMC MRI

PROJECT #: 01907.01
DRAWN BY: SC
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DATE: 3/11/2020

SHEET NUMBER: M6-01

100% - CONSTRUCTION DOCUMENTS

EXISTING AIR HANDLING UNIT SCHEDULE (FOR REFERENCE ONLY PER OSHPD PROJECT #HL889969)

SYMBOL	AREA SERVED	UNIT LOCATION	SUPPLY FAN									RETURN FAN								COOLING COIL												HEATING COIL										FILT.	VIBRATION ISOLATION	OPER. WEIGHT (LBS)	MANUF. & MODEL NO.
			TYPE	CFM	TSP (IN WC)	MIN OSA CFM	RPM	HP	V	Ø	Hz	TYPE	CFM	TSP (IN WC)	RPM	HP	V	Ø	Hz	CAP. (MBH)		FACE AREA (SF)	MIN NO. OF ROWS	EAT (°F)		LAT (°F)		MAX AIR PD (IN WC)	GPM	EWT (°F)	LWT (°F)	MAX WATER PD (FT)	CFM	CAP. (MBH)	FACE AREA (SF)	MIN NO OF ROWS	EAT (°F)	LAT (°F)	MAX AIR PD (IN WC)	GPM	EWT (°F)	LWT (°F)	WATER PD (FT)				
																				SENS.	TOTAL			DB	WB	DB	WB																		
(E)AH-1	1ST FLOOR SOUTHEAST, SOUTWEST	MECHANICAL PENTHOUSE	AIR FOIL	12,000	5	3150	1361	20	460	3	60	(E)RF-1	8,850	1.25	801	3	460	3	60	340.1	457.71	24.8	6	79	64.8	53	52	1.0	91.5	45	55	7.4	12,000	131	24.8	1	65	75	.08	13.1	180	160	0.9	1	INTERNAL SPRING ISOLATED	12,000	"PACE" PLUG FAN DRAW-THRU P-30

(1) DEEP PLEATED HIGH EFFICIENCY 45% PRE FILTER & 95% FINAL FILTER. (2) TEST, ADJUST AND BALANCE AH-1 TO PROVIDE CFM REQUIRED BASED ON PRE-TAB AND QUANTITIES INDICATED ON MECHANICAL PLAN.

EXISTING EXHAUST FAN SCHEDULE (FOR REFERENCE ONLY)

SYMBOL	LOCATION	AREA SERVED	FAN TYPE	CFM	ESP (IN W.G.)	RPM	MOTOR				VIBRATION ISOLATION	OPER WEIGHT (LBS)	MANUFACTURER & MODEL NO.
							HP	V	Ø	Hz			
(E)EF-1	ROOF	FIRST FLOOR SOUTHWEST	CENTRIFUGAL	1330	0.3	1290	1/4	120	1	60	ROOF MOUNTED	120	GREENHECK LBP-14

ASHRAE STANDARD 15 REFRIGERANT COMPLIANCE CALCULATION

CONDENSING UNIT	CRITICAL ROOM AREA (FT^2)	CRITICAL ROOM CEILING HEIGHT (FT)	CRITICAL ROOM VOLUME (FT^3)	MAXIMUM RCL FACTOR FOR R-410A (LB/1000 FT^3)	REFRIGERATION CONCENTRATION LIMIT (LBS)	ACTUAL REGRIGERATION CHARGE (LBS)
CU-1	98	8	784	26	20.4	14.3 (6)
-	-	-	-	-	-	-

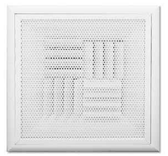
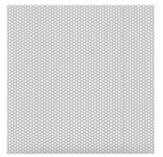
OUTSIDE AIR DESIGN CONDITIONS

OUTSIDE AIR INTAKE CONDITIONS		
SUMMER		WINTER
80°F DB	67°F WB	37°F

INDOOR AIR DESIGN CONDITIONS

MRI ROOM		
SUMMER		WINTER
68°F DB	50% RH	68°F
CONTROL ROOM / EQUIPMENT ROOM		
SUMMER		WINTER
78°F DB	50% RH	68°F
CONDITIONED SPACES		
SUMMER		WINTER
78°F DB	50% RH	68°F

AIR DISTRIBUTION SCHEDULE (1)

SYMBOL	SERVICE	DESCRIPTION	NECK SIZE	CFM RANGE	MOUNTING SURFACE	PHOTO	REMARKS	MAX NC LEVEL
A CFM	SUPPLY AIR	4-WAY, MODULAR CORE, PERFORATED FACE, CEILING DIFFUSER	6"Ø	0-95	T-BAR/ HARD CEILING		ALUMINUM CONSTRUCTION	25
			8"Ø	95-210				
			10"Ø	210-370				
			12"Ø	370-600				
			14"Ø	600-900				
			16"Ø	900-1290				
B CFM	RETURN OR EXHAUST AIR	PERFORATED RETURN / EXHAUST GRILLE	6"Ø	190	T-BAR/ HARD CEILING		ALUMINUM CONSTRUCTION	25
			8"Ø	340				
			10"Ø	560				
			12"Ø	890				
			14"Ø	1190				
			16"Ø	1610				
C CFM	SUPPLY AIR	4-WAY, MRI COMPATIBLE CEILING DIFFUSER	6"Ø	0-95	T-BAR/ HARD CEILING		ALL ALUMINUM CONSTRUCTION	25
			8"Ø	95-210				
			10"Ø	210-370				
			12"Ø	370-600				
			14"Ø	600-900				
			16"Ø	900-1290				
D CFM	RETURN OR EXHAUST AIR	PERFORATED, MRI COMPATIBLE RETURN/EXHAUST GRILLE	6"Ø	190	T-BAR/ HARD CEILING		ALL ALUMINUM CONSTRUCTION	25
			8"Ø	340				
			10"Ø	560				
			12"Ø	890				
			14"Ø	1190				
			16"Ø	1610				
E CFM	TRANSFER AIR	FIXED ANGLE SIDEWALL REGISTER	24x24	-	SIDE WALL		ALL ALUMINUM CONSTRUCTION, 45-DEG FIXED BLADE	N/A
F CFM	SUPPLY AIR	DOUBLE DEFLECTION SIDEWALL DIFFUSER	18x8	-	DUCTWORK		ALL ALUMINUM CONSTRUCTION	N/A

(1) DIFFUSERS AND GRILLES WITHIN MRI EXAM ROOM SHIELDING SHALL BE MRI COMPATIBLE.

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100% - CONSTRUCTION DOCUMENTS

AIR BALANCE TABLE

ZONE	ROOM NAME	AREA (FT^2)	HG (FT)	CMC TABLE 4-A								DESIGN AIRFLOW (1)					
				ROOM DESIGNATION	AIR BALANCE RELATIONSHIP	O.A. (ACH)	O.A. (CFM)	S.A. (ACH)	S.A. (CFM)	E.A. (ACH)	E.A. (CFM)	SA (CFM)	RA (CFM)	EA (CFM)	OA (CFM)	TA (CFM)	AIR BALANCE
RC-1	MRI EXAM ROOM 102	530 6	8.3	MRI Room	No Requirement for Continous Directional Control	2	147 6	6	440 6	-	-	800	800	0	210	0	EQ
RC-2	CONTROL ROOM 104	116 6	8.2	Patient Holding Room	No Requirement for Continous Directional Control	2	32 6	6	95 6	-	-	350	0	0	92	350	POSITVE
RC-3	PATIENT RESTROOM 105	43	8.0	Toilet Room	Negative	-	-	-	-	10	57	0	100	70	0	(170)	NEGATIVE
	OUTPATIENT HOLDING 106	296	8.3	Patient Holding Room	No Requirement for Continous Directional Control	2	81	6	244	-	-	300	550	0	144	(250)	NEGATIVE
RC-4	INPATIENT HOLDING 107	252	8.3	Patient Holding Room	No Requirement for Continous Directional Control	2	69	6	208	-	-	270	235	0	71	35	POSITVE
RC-5	SUBWAITING ROOM 108	141	8.3	Radiology Waiting Room	Negative	2	39	12	233	-	-	120	0	240	63	(120)	NEGATIVE
	ADA DRESSING ROOM 110	45	8.0	-	No Requirement for Continous Directional Control	-	-	-	-	-	-	25	0	0	7	25	POSITVE
	DRESSING ROOM 109	26	8.0	-	No Requirement for Continous Directional Control	-	-	-	-	-	-	25	0	0	7	25	POSITVE
RC-6	WAITING ROOM 112	116	8.0	Radiology Waiting Room	Negative	2	31	12	186	12	186	270	0	300	79	(30)	NEGATIVE
(E)RC	RADIOLOGY READING ROOM 116	708	8.0	-	No Requirement for Continous Directional Control	-	-	-	-	-	-	700	700	0	184	0	EQ
(E)RC	(E) CORRIDOR B07	600	7.5	Patient Corridor	No Requirement for Continous Directional Control	2	150	2	150	-	-	575	900	0	236	(325)	NEGATIVE
(E)RC	(E) HC-1009	65	7.5	Patient Corridor	No Requirement for Continous Directional Control	-	-	-	-	10	81	150	0	190	50	(40)	NEGATIVE

(1) BASED ON 26% OSA

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LICENSED ARCHITECT — JOSEPH MICHAEL SFEIR — No. C 28543 — REN. 1-31-23 — STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER — FRANK SHADPOUR — No. 23923 — MECHANICAL — EXP. 9-30-21 — STATE OF CALIFORNIA

REV:	DESCRIPTION:	DATE:
1	OSHPD COMMENTS	8/3/2020
2	DESIGN CHANGES	8/10/2020
3	OSHPD COMMENTS	10/2/2020
4	OSHPD COMMENTS	11/24/2020
5	DESIGN CHANGES	11/24/2020
6	ACD 0001 DESIGN CHANGES	4/10/2021
7	ACD 0001 DESIGN CHANGES	5/9/2021

CONSULTANT

Shadpour Consulting Engineers, Inc.

OSHPD APPROVAL STAMP:

OSHPD #: S20813-37-00-ACD0001

SHEET TITLE:

MECHANICAL AIR BALANCE TABLE

PROJECT TITLE:

TCMC MRI

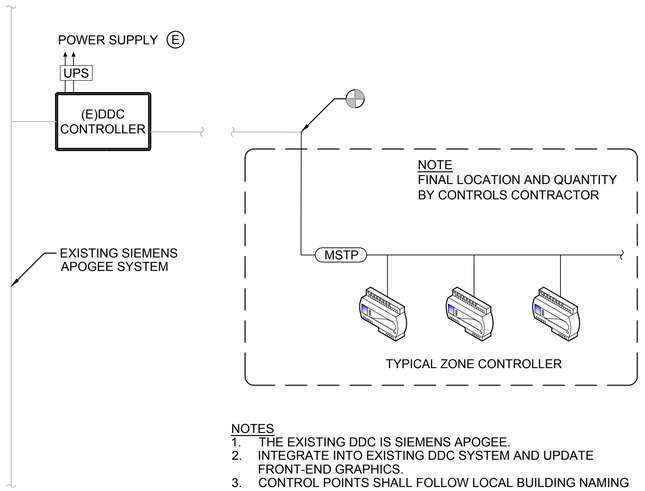
PROJECT #: 01907.01
DRAWN BY: SC
CHECKED BY: JC
SCALE: PER TITLE
DATE: 3/11/2020

SHEET NUMBER: M6-03

100% - CONSTRUCTION DOCUMENTS

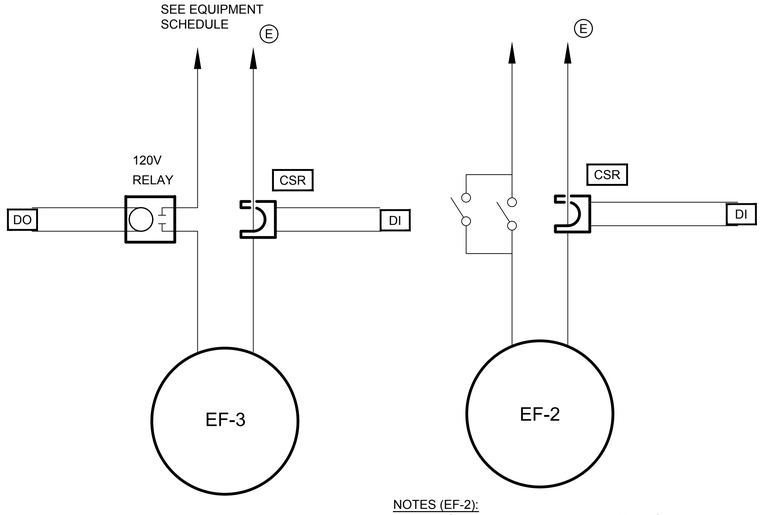
CONTROLS LEGEND

SYMBOL	DESCRIPTION
AI	DDC ANALOG INPUT POINT W/ ADJUSTABLE PID GAIN CONTROL
AO	DDC ANALOG OUTPUT POINT W/ ADJUSTABLE PID GAIN CONTROL
DI	DDC DIGITAL INPUT POINT W/ INDICATING LIGHT ON DDC PANEL
DO	DDC DIGITAL OUTPUT POINT W/ MANUAL OVERIDE AND INDICATING LIGHT ON DDC PANEL
CSR	CURRENT SENSING RELAY
E	COORDINATE WITH ELECTRICAL
T	TEMPERATURE SENSOR
	DAMPER ACTUATOR
	TWO-WAY CONTROL VALVE - VERIFY & PROVIDE A VALVE SCHEDULE
MSTP	MASTER SLAVE / TOKEN PASSING
UPS	UNINTERRUPTIBLE POWER SUPPLY
DDC	DIRECT DIGITAL CONTROL



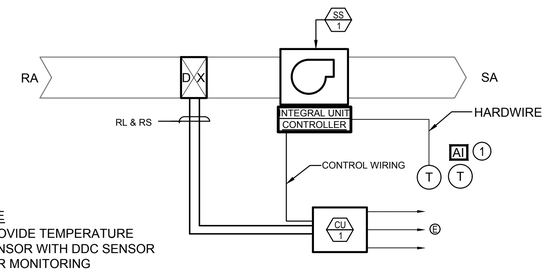
NOTES
1. THE EXISTING DDC IS SIEMENS APOGEE.
2. INTEGRATE INTO EXISTING DDC SYSTEM AND UPDATE FRONT-END GRAPHICS.
3. CONTROL POINTS SHALL FOLLOW LOCAL BUILDING NAMING STANDARDS
4. VERIFY LOCATION OF NEAREST DDC CONTROLLER.

1 DDC SYSTEM ARCHITECTURE
SCALE: NONE



NOTES (EF-2):
1. PROVIDE PARALLEL MANUAL EXHAUST FAN SWITCHES NEAR OPERATOR WORKSPACE AND IN MAGNET ROOM NEAR DOOR.
2. INTERLOCK WITH RETURN AIR DAMPER AND TRANSFER AIR DAMPER. REFER TO M3-01 FOR LOCATION.

2 EF MOTOR CONTROL
SCALE: NONE

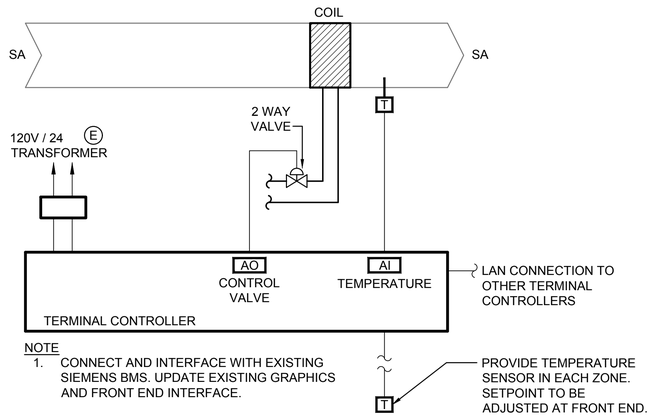


KEYNOTE
1. PROVIDE TEMPERATURE SENSOR WITH DDC SENSOR FOR MONITORING

SEQUENCE OF OPERATION

1. SYSTEM SHALL BE ENERGIZED AND PROVIDE SPACE CONDITIONING FOR 24 HOURS PER DAY.
2. THE UNIT SHALL RUN ON ITS INTEGRAL CONTROLS TO MAINTAIN A 75°F (ADJ.) TEMPERATURE SET POINT.
3. DDC SYSTEM SHALL VERIFY PROPER OPERATION BY ROOM TEMPERATURE SENSOR. SENSOR SHALL SEND AN ALARM SIGNAL IF ROOM TEMPERATURE DEVIATES 5°F (ADJ.) FROM SETPOINT FOR MORE THAN 10 MINUTES (ADJ.)

3 DX SPLIT SYSTEM UNIT (SS-1)
SCALE: NONE

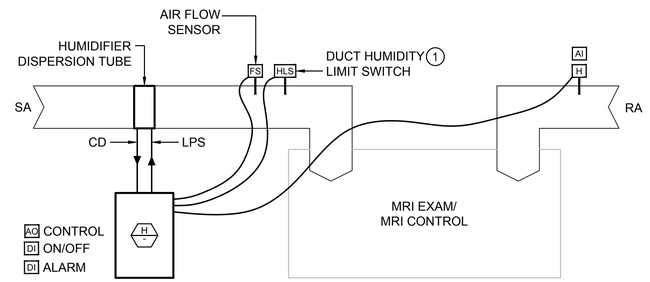


NOTE
1. CONNECT AND INTERFACE WITH EXISTING SIEMENS BMS. UPDATE EXISTING GRAPHICS AND FRONT END INTERFACE.

SEQUENCE OF OPERATION:

1. REHEAT VALVE SHALL BE MODULATED TO MAINTAIN THE ROOM TEMPERATURE SETPOINT, SET BY ROOM OCCUPANT LIMITED TO 68°F-78F° (ADJ).

4 REHEAT CONTROL DIAGRAM
SCALE: NONE



NOTES:

1. LOCATE PER MANUFACTURER'S RECOMMENDED DISTANCE FROM DISPERSION TUBE.

5 DUCT STEAM HUMIDIFIER CONTROL DETAIL
SCALE: NONE

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REGISTERED PROFESSIONAL ENGINEER FRANK SHADPOUR No. 23923 MECHANICAL EXP. 9-30-21 STATE OF CALIFORNIA

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5	DESIGN CHANGES	11/24/2020
A 6	ACD 0001 DESIGN CHANGES	4/10/2021
A 7	ACD 0001 DESIGN CHANGES	5/5/2021

CONSULTANT

Shadpour Consulting Engineers, Inc.

OSHPD APPROVAL STAMP:

OSHPD #: S200813-37-00-ACD0001

SHEET TITLE:

MECHANICAL CONTROLS

PROJECT TITLE:

TCMC MRI

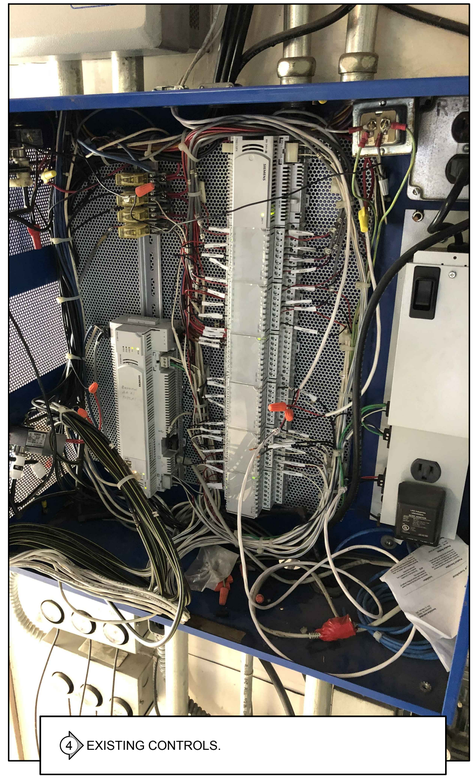
PROJECT #: 01907.01
DRAWN BY: SC
CHECKED BY: JC
SCALE: PER TITLE
DATE: 3/11/2020

SHEET NUMBER: M7-01

100% - CONSTRUCTION DOCUMENTS

10 EXISTING DUCT PENETRATION.

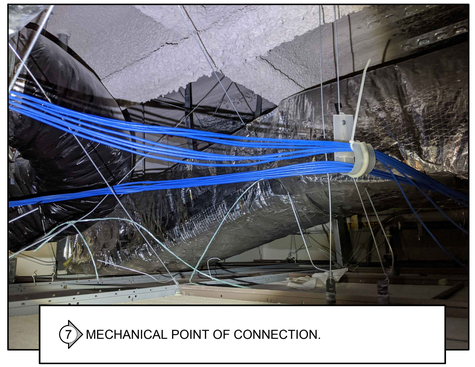
6 PROPOSED CRYOGENIC VENT LOCATION.



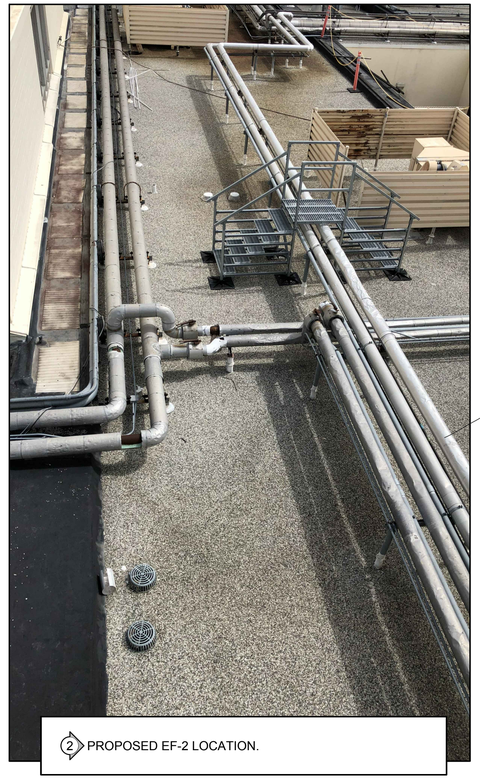
4 EXISTING CONTROLS.

1 EXISTING CORRIDOR DUCTWORK.

11 EXISTING MECHANICAL PIPING.



7 MECHANICAL POINT OF CONNECTION.



2 PROPOSED EF-2 LOCATION.

12 EXISTING ZONE CONTROLLER.

8 EXISTING REHEAT COIL.

5 EXISTING EF-1.

3 PROPOSED EF-3 LOCATION.

13 CORRIDOR.

9 PROPOSED CHILLER LOCATION.

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MECHANICAL
EXP. 9-30-21
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7	ACD 0001 DESIGN CHANGES	5/8/2021

CONSULTANT

Shadpour Consulting Engineers, Inc.

OSHPD APPROVAL STAMP:

OSHPD #: S20813-37-00-ACD0001

SHEET TITLE:

MECHANICAL PHOTOS

PROJECT TITLE:

TCMC MRI

PROJECT #: 01907.01
DRAWN BY: SC
CHECKED BY: JC
SCALE: PER TITLE
DATE: 3/11/2020

SHEET NUMBER:

M8-01

100% - CONSTRUCTION DOCUMENTS

PLUMBING LEGEND AND ABBREVIATIONS

ABBREV.	DESCRIPTION
A	
A/C	ABOVE CEILING
A/E	ARCHITECT / ENGINEER
A/G	ABOVE GRADE
ABV	ABOVE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AMP	AMPERE
AP	ACCESS PANEL
B	
B/G	BELOW GRADE
BFP	BACKFLOW PREVENTER
BHP	BRAKE HORSEPOWER
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNIT PER HOUR
C	
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CFT	CUBIC FEET
CI	CAST IRON
CO	CLEAN OUT
CP	CONDENSATE PUMP
CW	COLD WATER (POTABLE)
D	
DB	DRY-BULB TEMPERATURE
DB	DECIBELS
DCW	DOMESTIC COLD WATER
DDC	DIRECT DIGITAL CONTROLS
DEG	DEGREE
DHW	DOMESTIC HOT WATER
DHWR	DOMESTIC HOT WATER RETURN
DIA	DIAMETER
DN	DOWN
DP	DEW POINT TEMPERATURE
DGWS	DRAWINGS
E	
EA	EACH
EAT	ENTERING AIR TEMPERATURE
EER	ENERGY EFFICIENCY RATIO
EGS	EMERGENCY GAS SHUTOFF
EJ	EXPANSION JOINT
ENT	ENTERING
ESP	EXTERNAL STATIC PRESSURE
EWT	ENTERING WATER TEMPERATURE
(E)	EXISTING

ABBREV.	DESCRIPTION
F	
F	DEGREES FAHRENHEIT
FC	FLEXIBLE CONNECTION
FD	FLOOR DRAIN
FLR	FLOOR
FM	FLOW METER
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FS	FLOW SWITCH
FT	FEET
FT WC	FEET OF WATER COLUMN
FT-LB	FOOT-POND
G	
GA	GAUGE
GAL	GALLONS
GPD	GALLONS PER DAY
GPF	GALLONS PER FLUSH
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GS	GALVANIZED STEEL
H	
HB	HOSE BIBB
HP	HORSEPOWER
HW	HOT WATER
HWHC	HOT WATER HEATING COIL
HHWR	HEATING HOT WATER RETURN
HHWS	HEATING HOT WATER SUPPLY
HWR	HOT WATER RETURN
HZ	HERTZ
I	
I/O	INPUT/OUTPUT
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
IN	INCHES
IN HG	INCHES OF MERCURY
IN WC	INCH WATER COLUMN
IN WG	INCH WATER GAUGE
IN-LB	INCH-POUND
IPLV	INTEGRATED PART LOAD VALUE
K	
KW	KILOWATT
KWH	KILOWATT HOUR

ABBREV.	DESCRIPTION
L	
LAT	LEAVING AIR TEMPERATURE
LB	POUNDS
LBS/HR	POUNDS PER HOUR
LF	LINEAR FOOT (FEET)
LVG	LEAVING
LWT	LEAVING WATER TEMPERATURE
M	
MA	MEDICAL COMPRESSED AIR
MAX	MAXIMUM
MBH	1,000 BTUH
MCA	MINIMUM BRANCH CIRCUIT AMPACITY
MIN	MINIMUM
MV	MEDICAL VACUUM
N	
NA	NOT APPLICABLE
NC	NOISE CRITERIA
NC	NORMALLY CLOSED
NG	NATURAL GAS
NO	NORMALLY OPEN
NTS	NOT TO SCALE
O	
O	OXYGEN
OD	OUTSIDE DIAMETER
OSD	OVERFLOW STORM DRAIN
P	
PSI	POUNDS PER SQUARE INCH
R	
RD	ROOF DRAIN
S	
SCFM	STANDARD CUBIC FEET PER MINUTE
SI	SQUARE INCHES
SQ FT	SQUARE FOOT (FEET)
SS	STAINLESS STEEL

ABBREV.	DESCRIPTION
T	
TDH	TOTAL DEVELOPED HEAD
THRU	THROUGH
TP	TRAP
TSP	TOTAL STATIC PRESSURE
TWU	THRU-WALL UNIT
TYP	TYPICAL
U	
UNO	UNLESS OTHERWISE NOTED
UTR	UP THROUGH ROOF
V	
V	VALVE
VFD	VARIABLE FREQUENCY DRIVE
VSD	VARIABLE SPEED DRIVE
VTR	VENT THROUGH ROOF
W	
W	WATTS
WAG	WASTE ANESTHESIA GAS
WB	WET-BULB (TEMPERATURE)
WC	WATER COLUMN
WG	WATER GAUGE
WHA	WATER HAMMER ARRESTOR

SYMBOL	ABBREVIATION	DESCRIPTION
		CAPPED LINE
		REMOVE EXISTING EQUIPMENT OR PIPING SHOWN HATCHED
	POC	POINT OF CONNECTION
	POD	POINT OF DISCONNECT
	W	WASTE OR SEWER BELOW SLAB
	W	WASTE OR SEWER ABOVE SLAB
	V	SANITARY VENT
	CW	COLD WATER
	HW	HOT WATER
	HWR	HOT WATER RETURN
G	G	LOW PRESSURE GAS PIPE
SD	SD	STORM DRAIN
OSD	OSD	OVERFLOW STORM DRAIN
CD	CD	CONDENSATE DRAIN
		GATE/GLOBE/BALL/BUTTERFLY VALVE
	PRV	PRESSURE REDUCING VALVE
	BV	COMBINATION BALANCING VALVE & SHUT-OFF VALVE
	U	UNION
	CV	CHECK VALVE
		STRAINER
	CP	CIRCULATION PUMP
		BALANCING VALVE
		FLOW SWITCH
		AQUASTAT
	TP	TRAP PRIMER
	WHA	WATER HAMMER ARRESTOR
	CONT	CONTINUATION
	DN	DOWN OR DROP
	UP	RISE OR RISER
		VALVE ON RISE OR DROP

SYMBOL	ABBREVIATION	DESCRIPTION
	FS	FLOOR SINK
	FD	FLOOR DRAIN
	HB	HOSE BIBB
	FCO	FLOOR CLEAN-OUT
	GCO	GRADE CLEAN-OUT
	WCO	WALL CLEAN-OUT
OR		SYMBOL, SEE EQUIPMENT SCHEDULE

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CONSULTANT

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OSHPD APPROVAL STAMP:

OSHPD #: S20813-37-00-ACD0001

SHEET TITLE:

PLUMBING LEGEND AND ABBREVIATIONS

PROJECT TITLE:

TCMC MRI

PROJECT #: 01907.01
DRAWN BY: SC
CHECKED BY: JC
SCALE: PER TITLE
DATE: 3/11/2020

SHEET NUMBER: P1-01

100% - CONSTRUCTION DOCUMENTS

OSHPD NOTES

1. PIPES AND CONDUITS SHALL BE SUPPORTED AND BRACED PER OSHPD ANCHORAGE PRE-APPROVAL NO. OPM-0043-13 (MASON INDUSTRIES GUIDLINES FOR SEISMIC RESTRAINTS OF MECHANICAL AND PLUMBING SYSTEMS) OR OTHER OSHPD PRE-APPROVED GUIDELINES.

2. IN ADDITION TO THE REQUIREMENTS SPECIFIED ELSEWHERE, THE FOLLOWING GUIDELINES SHALL BE ADHERED TO:
   a. ALL DUCT, PIPE, AND CONDUIT SHALL HAVE A MINIMUM OF TWO (2) TRANSVERSE AND ONE (1) LONGITUDINAL SEISMIC RESTRAINT IN EVERY RUN.
   b. LONGITUDINAL AND TRANSVERSE RESTRAINT SHALL OCCUR AT INTERVALS SPECIFIED BY STRUCTURAL ENGINEER, MECHANICAL ENGINEER, AND SHALL NOT EXCEED THE SPACING SPECIFIED IN SMACNA AND PRE-APPROVED SYSTEM.
   c. SPECIFY AND USE ONLY ONE PRE-APPROVED SYSTEM.

3. THE INTENT OF THE DRAWINGS AND SPECIFICATIONS IS TO CONSTRUCT THE BUILD-OUT IN ACCORDANCE WITH THE CALIFORNIA BUILDING STANDARDS CODE, TITLES 19 AND 24, CALIFORNIA CODE OF REGULATIONS. SHOULD ANY CONDITIONS DEVELOP NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS, A CHANGE ORDER, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY OSHPD BEFORE PROCEEDING WITH THE WORK.

4. "SHOP DRAWINGS, SHOWING THE BRACING/SUPPORT LOCATIONS AND REFERENCES TO DETAILS FROM THE RELEVANT OSHPD PRE-APPROVALS FOR PIPING/DUCTS/CONDUITS EXCEPT FIRE SPRINKLERS, NEED TO BE REVIEWED AND ACCEPTED BY THE AOR AND EOR (SE AND ME) PRIOR TO STARTING INSTALLATION OF THE BRACING/SUPPORT. IOR SHALL ENSURE THE ABOVE REQUIREMENTS ARE SATISFIED."

PROJECT NOTES

1. NEITHER WATER NOR DRAINAGE PIPING WILL BE LOCATED OVER ELECTRICAL WIRING OR EQUIPMENT UNLESS ADEQUATE PROTECTION AGAINST WATER (INCLUDING CONDENSATION) DAMAGE HAS BEEN PROVIDED. INSULATION ALONE IS NOT ADEQUATE PROTECTION AGAINST CONDENSATION.

EXISTING BUILDING NOTES

1. ALL ITEMS TO BE REMOVED AND RELOCATED OR REPLACED SHALL BE HANDLED WITH PROPER CARE AND STORED IN A SAFE PLACE TO PREVENT DAMAGE; OR BE REPLACED AT THE CONTRACTOR'S EXPENSE.

2. WHEN INSTALLING DRILLED ANCHORS OR POWDER DRIVEN PINS INTO EXISTING REINFORCED CONCRETE, USE CARE TO AVOID CUTTING OR DAMAGING THE REINFORCING BARS.

3. FOR EXISTING FLOORS, CEILINGS, PARTITIONS, AND SERVICES TO REMAIN, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL FINISHES AND MATERIALS AND REPAIRING OR REPLACING ALL ITEMS THAT ARE DAMAGED OR SOILED DURING THE COURSE OF CONSTRUCTION.

GENERAL NOTES

1. THESE DRAWINGS ARE A GENERAL GRAPHIC PRESENTATION OF THE WORK. PIPING, AND EQUIPMENT, AS SHOWN, ARE SCHEMATIC. FABRICATE AND INSTALL BASED ON ACTUAL FIELD MEASUREMENT. COORDINATE WITH OTHER TRADES. PROVIDE A COMPLETE SET OF COORDINATED SHOP DRAWINGS REFLECTING ACTUAL DIMENSIONS, ACCESS REQUIREMENTS, AND DETAILS BASED UPON THE ACTUAL EQUIPMENT PROCURED. SHOP DRAWINGS SHALL BE FULLY COORDINATE WITH OTHER TRADES INCLUDING BUT NOT LIMITED TO ARCHITECTURAL, CIVIL, STRUCTURAL, ELECTRICAL, MECHANICAL, FIRE PROTECTION AND SEISMIC PRIOR TO SUBMITTAL. WORK SHALL NOT COMMENCE UNTIL SHOP DRAWINGS HAVE BEEN FULLY REVIEWED AND APPROVED. MAINTAIN AN UP TO DATE SET OF AS-BUILT DRAWINGS AT THE JOB SITE.

2. NO PLUMBING SHALL BE INSTALLED UNTIL ALL REQUIRED PLUMBING PLAN CHECK PERMITS AND APPROVALS HAVE BEEN OBTAINED FROM ALL REQUIRED AGENCIES.

3. LAVATORY FAUCETS, SINK FAUCETS (NOT INCLUDING SERVICE SINK FAUCETS OR FAUCETS DESIGNATED AS INSTITUTIONAL) SHALL MEET THE FLOW REQUIREMENTS OUTLINED IN THE APPLIANCE EFFICIENCY STANDARDS.

4. COORDINATE WITH THE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF PLUMBING FIXTURES AND DRAINS.

5. PROVIDE ALL TAILPIECES, TRAPS, STOPS, SUPPLY PIPES TO LAVATORIES DESIGNED AS ACCESSIBLE, WITH PREFORMED INSULATION JACKET.

6. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING OF WALLS, ROOFS, FOOTINGS, FLOORS, INCLUDING ALL SAW CUTTING AND CORE DRILLING. COORDINATE ALL SAW CUTTING AND CORE DRILLING WITH STRUCTURAL DRAWINGS. ANY CUTTING AND DRILLING REQUIRED OF STRUCTURAL ELEMENTS THAT IS NOT SPECIFICALLY SHOWN ON THE PLANS SHALL BE BROUGHT TO THE ARCHITECTS ATTENTION PRIOR TO CUTTING AND DRILLING. CONTRACTOR SHALL SUBMIT PROPOSED LOCATION AND SIZES OF SUCH CUTTING AND DRILLING FOR THE ARCHITECTS AND STRUCTURAL ENGINEERS APPROVAL.

7. COORDINATE ALL EQUIPMENT LOCATIONS, PIPE PENETRATIONS AND EQUIPMENT PAD LOCATIONS WITH STRUCTURAL DRAWINGS PRIOR TO WORK.

8. COORDINATE INSTALLATION OF ALL EQUIPMENT AND PIPING WITH OTHER TRADES PRIOR TO INSTALLATION. ENSURE THAT ALL CONTROL DEVICES, SHUT-OFF VALVES, ETC. ARE ACCESSIBLE FOR MAINTENANCE. WHERE ACCESS PANELS IN FINISHED SPACES, OTHER THAN THAT SHOWN, CONTRACTOR SHALL PROVIDE AND COORDINATE EXACT LOCATION OF PANELS WITH ARCHITECT PRIOR TO INSTALLATION.

9. ANY STRUCTURAL FIREPROOFING DAMAGED DURING INSTALLATION OF PLUMBING EQUIPMENT, PIPING, ETC. SHALL BE REPAIRED AT NO COST TO THE OWNER. REPAIRS SHALL BE AS DIRECTED BY THE ARCHITECT.

10. PROVIDE ESCUTCHEON PLATES AT ALL EXPOSED TO VIEW CEILING AND WALL PENETRATIONS.

11. CONFORM TO ALL APPLICABLE LOCAL, STATE, FEDERAL AND HEALTH AUTHORITY CODES.

12. CROSS CONNECTION PROTECTION SHALL BE PROVIDED AT ALL POTABLE WATER SUPPLIED APPLIANCES AND EQUIPMENT (OTHER THAN THOSE LISTED IN INFORMATION BULLETIN 103).

13. THE CONTRACTOR SHALL COORDINATE ALL DIMENSIONS, SERVICES AND CLEARANCES PRIOR TO START OF WORK.

14. PROVIDE WATER HAMMER ARRESTORS TO ABSORB HIGH PRESSURES RESULTING FROM QUICK ACTING VALVES (SECTION 609.10 CPC)

PLUMBING FACILITIES

PER CPC TABLE A
GROUP B OCCUPANT LOAD FACTOR = 200 S.F.
B OCCUPANY AT LEVEL: 3,610 SF
OCCUPANTS: 19

MAX STAFF PER DAY - 10 OCCUPANTS

TOTAL = 19 +10 = 29 OCCUPANTS

15 MALE + 15 FEMALE

PER CPC TABLE 422.1
I-2 INSTITUTIONAL OCCUPANCY
EMPLOYEE USE, WATER CLOSETS REQUIRED:
1 MALE + 1 FEMALE

TABLE 4-2 - MINIMUM PLUMBING FIXTURES

SPACE	HANDWASHING FIXTURE	SCRUB SINKS	TOILET	BATHTUBS OR SHOWERS	SERVICE SINKS	CLINIC SINKS	PROVIDED
RADIOLOGICAL/IMAGING SERVICES SPACE	1	-	1	-	-	-	PATIENT RESTROOM 105: WATER CLOSET, LAVATORY. OUTPATIENT HOLDING 106: ACCESSIBLE SINK
WAITING AREA/ROOM	1	–	1	-	-	-	(E)MALE TOILET 369: (2)EXISITING WATER CLOSETS, (3)EXISTING URINALS, (3)EXISTING LAVATORIES, (1)LAVATORY. (E)FEMALE TOILET 373: (4)EXISTING WATER CLOSETS, (3)EXISTING LAVATORIES.
(E) STAFF TOILET - MALE	1	-	1:1-15	-	-	-	(E)STAFF TOILET: (2)EXISTING WATER CLOSETS, (1)URINAL, (3)EXISTING LAVATORIES.
(E) STAFF TOILET - FEMALE	1	–	1: 1-15	-	-	-	(E)STAFF TOILET: (3)EXISTING WATER CLOSETS (3)EXISTING LAVATORIES.

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REGISTERED PROFESSIONAL ENGINEER — FRANK SHADPOUR — No. 23923 — MECHANICAL — EXP. 9-30-21 — STATE OF CALIFORNIA

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5	DESIGN CHANGES	11/24/2020
6	ACD 0001 DESIGN CHANGES	4/10/2021
7	ACD 0001 DESIGN CHANGES	5/8/2021

CONSULTANT

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OSHPD APPROVAL STAMP:

OSHPD #: S20813-37-00-ACD0001

SHEET TITLE:

PLUMBING GENERAL NOTES

PROJECT TITLE:

TCMC MRI

PROJECT #: 01907.01
DRAWN BY: SC
CHECKED BY: JC
SCALE: PER TITLE
DATE: 3/11/2020

SHEET NUMBER: P1-02

100% - CONSTRUCTION DOCUMENTS

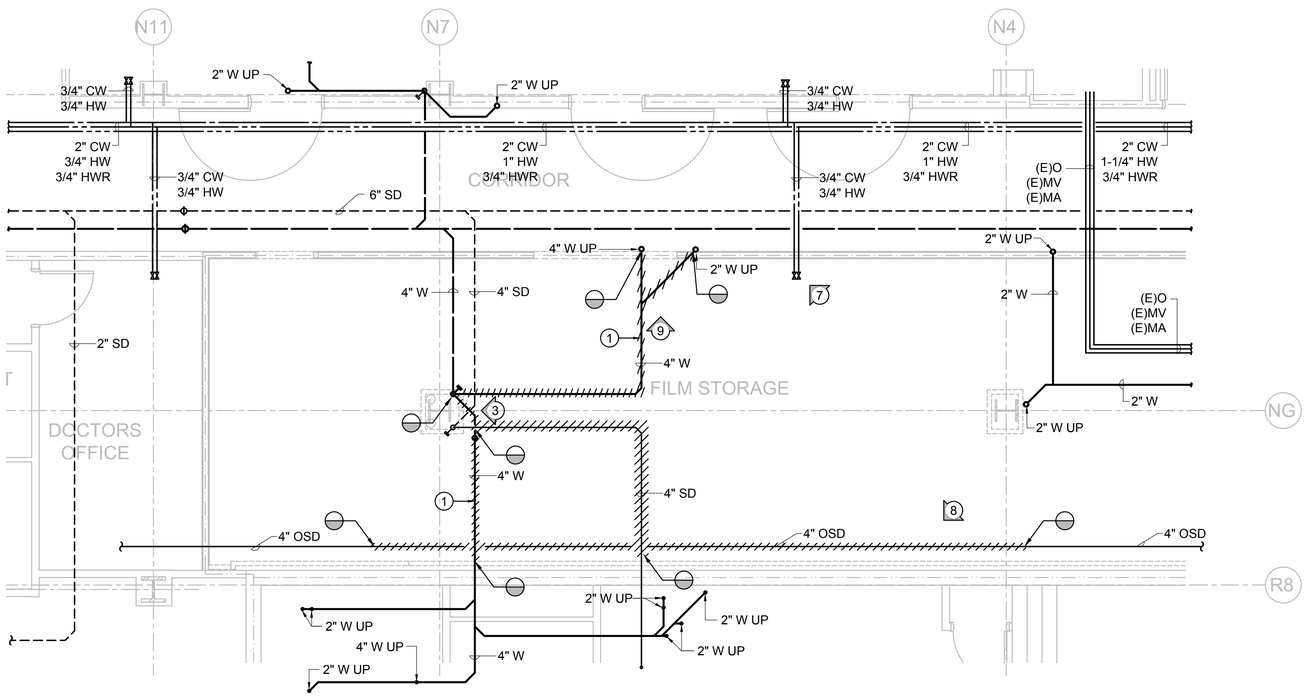
GENERAL NOTES

1. EXISTING CONDITIONS ARE BASED UPON INFORMATION OBTAINED FROM AVAILABLE AS-BUILT DRAWINGS AND LIMITED NON-DESTRUCTIVE FIELD INVESTIGATIONS. PERFORM A FULL SITE SURVEY WITHIN 30 DAYS OF COMMENCEMENT OF WORK. SURVEY SHALL BE ALL INCLUSIVE OF ALL AREAS WITHIN THE SCOPE OF WORK AND BEYOND AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM. NOTIFY OWNER IF CONDITIONS THAT DIFFER FROM DESIGN ARE IDENTIFIED THAT WILL IMPACT THE PROJECT.

2. UTILITY SERVICES TO THE BUILDING SHALL NOT BE INTERRUPTED UNLESS APPROVED BY THE OWNER. PROVIDE MINIMUM 2 WEEK NOTIFICATION IN ADVANCE OF UTILITY OUTAGES.

KEY NOTES

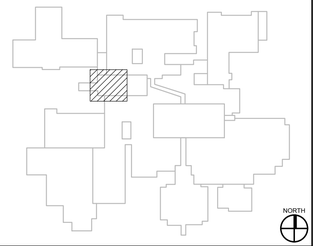
(1) DEMOLISH SANITARY PIPING AS REQUIRED TO ACCOMMODATE MRI SHIELDING.



1 PLUMBING DEMOLITION PLAN - AREA A
1/8" = 1'-0"

NORTH

KEY PLAN



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5	DESIGN CHANGES	11/24/2020
6	ACD 0001 DESIGN CHANGES	4/10/2021
7	ACD 0001 DESIGN CHANGES	5/8/2021

CONSULTANT:

Shadpour Consulting Engineers, Inc.

OSHPD APPROVAL STAMP:

OSHPD #: S20813-37-00-ACD0001

SHEET TITLE:

PLUMBING DEMOLITION PLAN - AREA A

PROJECT TITLE:

TCMC MRI

PROJECT #: 01907.01
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CHECKED BY: JC
SCALE: PER TITLE
DATE: 3/11/2020

SHEET NUMBER: P2-01

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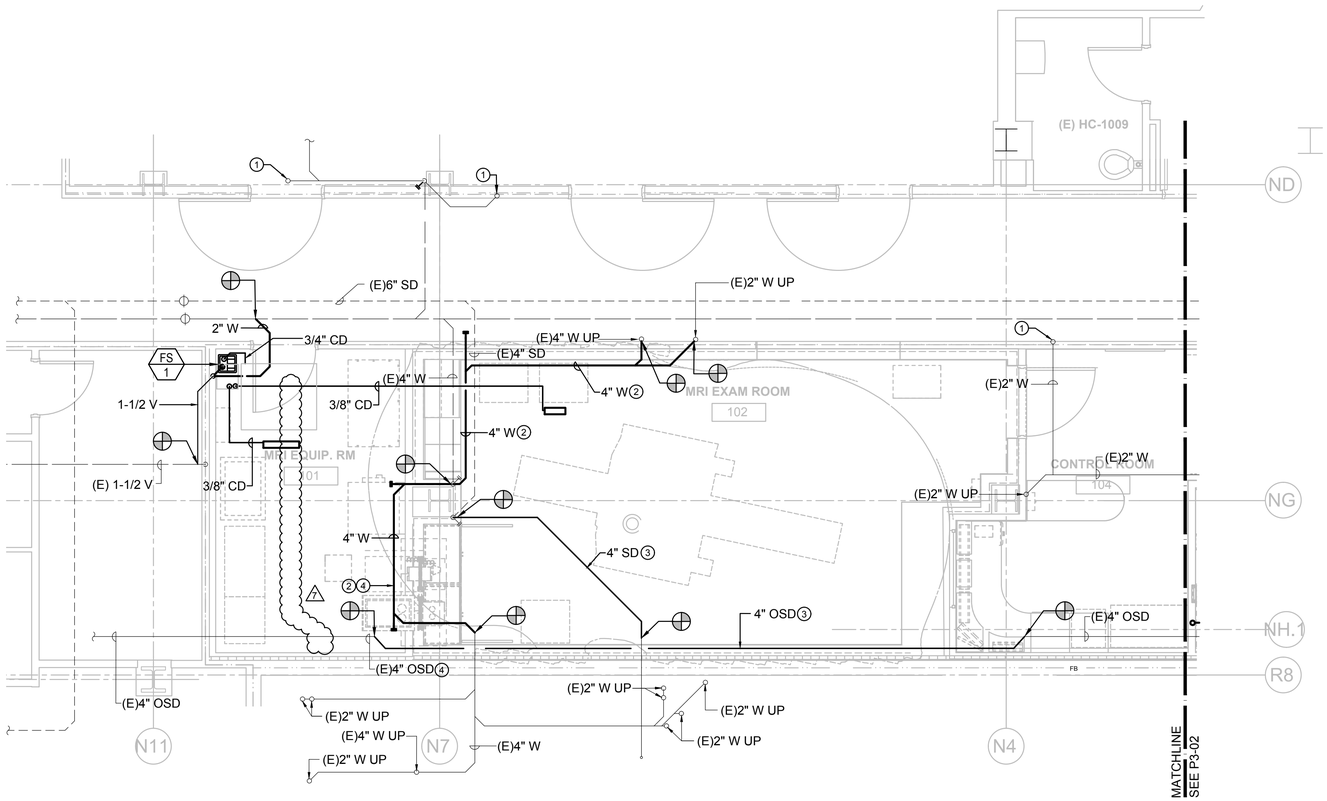


1 PLUMBING PLAN - WASTE AND VENT AREA A

1/4" = 1'-0"

NORTH

GENERAL NOTES

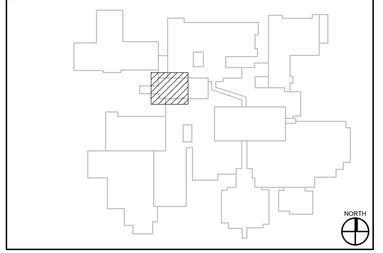
1. EXISTING CONDITIONS ARE BASED UPON INFORMATION OBTAINED FROM AVAILABLE AS-BUILT DRAWINGS AND LIMITED NON-DESTRUCTIVE FIELD INVESTIGATIONS. PERFORM A FULL SITE SURVEY WITHIN 30 DAYS OF COMMENCEMENT OF WORK. SURVEY SHALL BE ALL INCLUSIVE OF ALL AREAS WITHIN THE SCOPE OF WORK AND BEYOND AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM. NOTIFY OWNER IF CONDITIONS THAT DIFFER FROM DESIGN ARE IDENTIFIED THAT WILL IMPACT THE PROJECT.

2. UTILITY SERVICES TO THE BUILDING SHALL NOT BE INTERRUPTED UNLESS APPROVED BY THE OWNER. PROVIDE MINIMUM 2 WEEK NOTIFICATION IN ADVANCE OF UTILITY OUTAGES.

KEY NOTES

1. (E)2" WASTE UP.
2. REROUTE SANITARY PIPING AS REQUIRED TO ACCOMMODATE ADDITIONAL CEILING SPACE. PROVIDE NON-FERROUS PIPING FOR ALL PIPING BELOW RF ENCLOSURE.
3. PROVIDE NON-FERROUS STORM DRAIN PIPING FOR PIPING BELOW RF ENCLOSURE.
4. PROVIDE DRIP PAN

KEY PLAN



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6	ACD 0001 DESIGN CHANGES	4/10/2021
7	ACD 0001 DESIGN CHANGES	5/8/2021

CONSULTANT

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OSHPD APPROVAL STAMP:

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SHEET TITLE:

PLUMBING PLAN - WASTE AND VENT AREA A

PROJECT TITLE:

TCMC MRI

PROJECT #: 01907.01
DRAWN BY: SC
CHECKED BY: JC
SCALE: PER TITLE
DATE: 3/11/2020

SHEET NUMBER: P3-01

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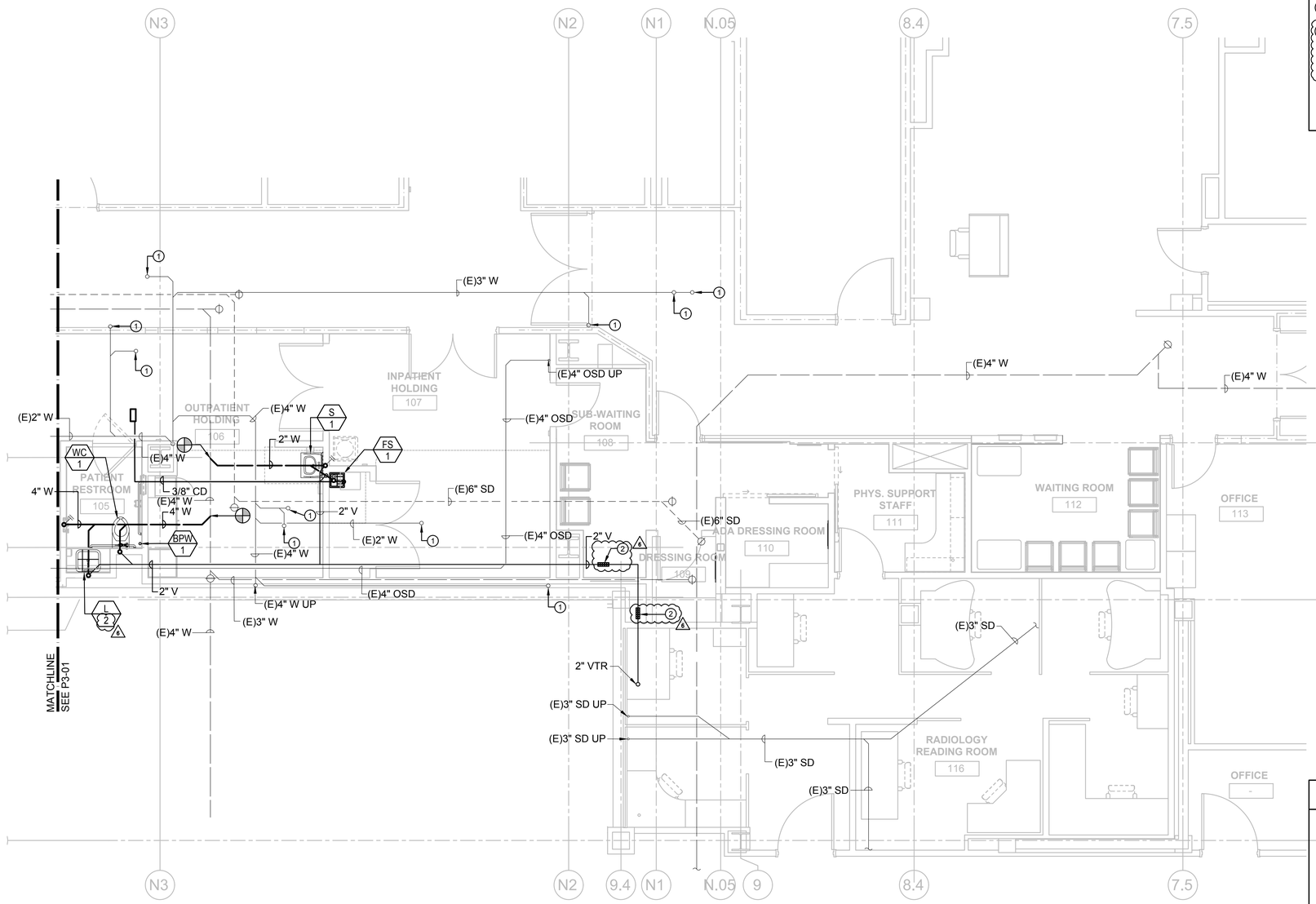
KEY NOTES

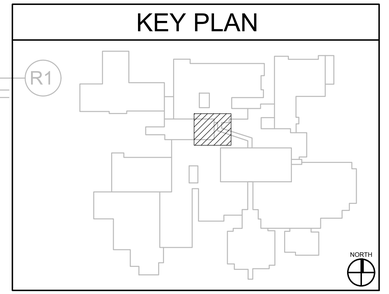
1. (E)2" W UP
2. PROVIDE FLEXIBLE PIPE CONNECTION ACROSS SEISMIC SEPARATION. PROVIDE ADEQUATE SLACK TO ALLOW FOR MOVEMENT IN ANY DIRECITON. REFER TO 6/P-501 FOR DETAIL.



1 PLUMBING PLAN - WASTE AND VENT AREA B
1/4" = 1'-0"

NORTH

KEY PLAN



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6 7	ACD 0001 DESIGN CHANGES	5/8/2021

CONSULTANT

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SHEET TITLE:

PLUMBING PLAN - WASTE AND VENT AREA B

PROJECT TITLE:

TCMC MRI

PROJECT #: 01907.01
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CHECKED BY: JC
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DATE: 3/11/2020

SHEET NUMBER: P3-02

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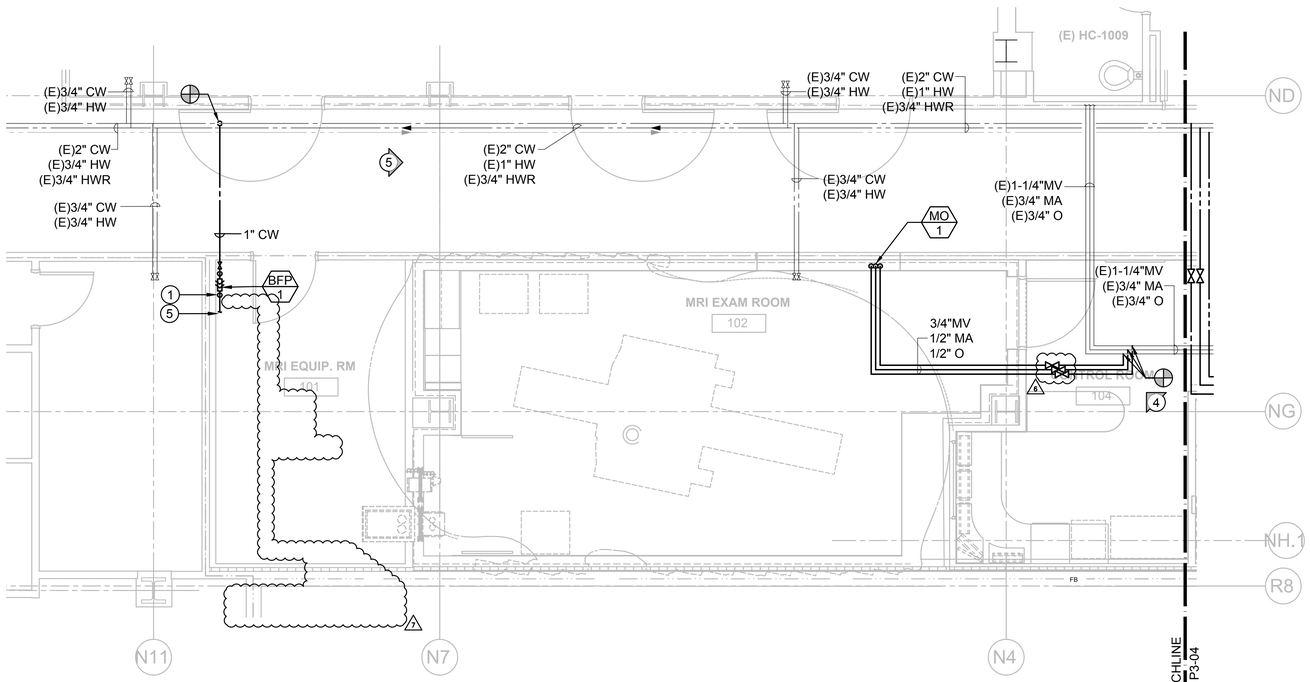

1 PLUMBING PLAN - PRESSURE PIPING AREA A
1/4" = 1'-0"

NORTH

GENERAL NOTES

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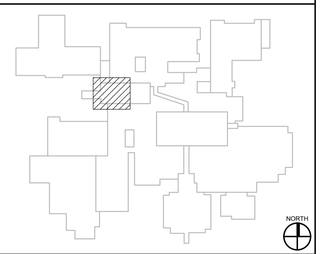
KEY NOTES

1. PROVIDE 1/2" ICW TO HUMIDIFIERS H-1 & H-2.
2. NOT USED 7
3. NOT USED 7
4. NOT USED 7
5. PROVIDE MAKE-UP WATER TO GE CHW LOOP.

KEY PLAN



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6	ACD 0001 DESIGN CHANGES	4/10/2021
7	ACD 0001 DESIGN CHANGES	5/8/2021

CONSULTANT

Shadpour Consulting Engineers, Inc.

OSHPD APPROVAL STAMP:

OSHPD #: S200813-37-00-ACD0001

SHEET TITLE:

PLUMBING PLAN - PRESSURE PIPING AREA A

PROJECT TITLE:

TCMC MRI

PROJECT #: 01907.01
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CHECKED BY: JC
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DATE: 3/11/2020

SHEET NUMBER: P3-03

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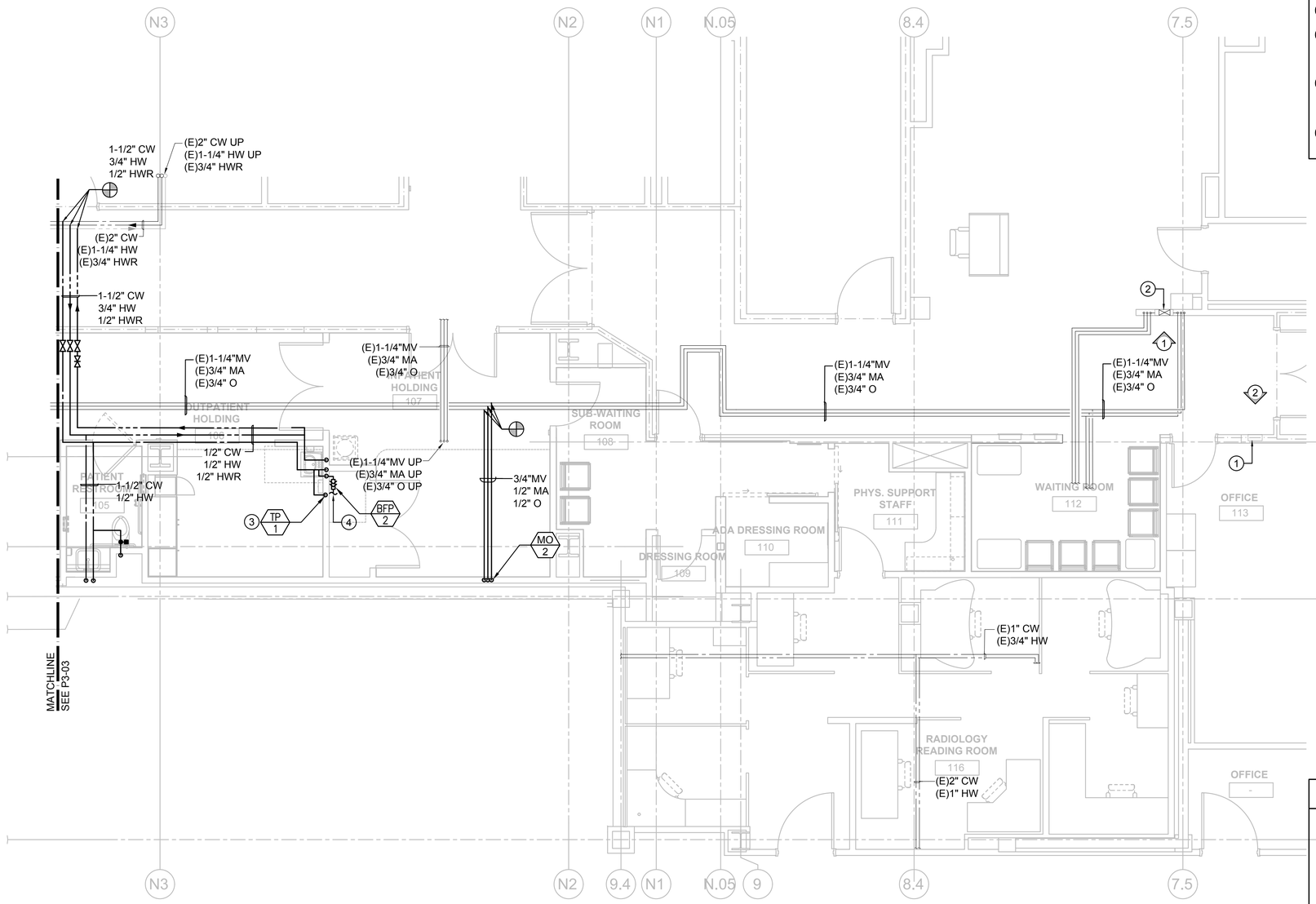

1 PLUMBING PLAN - PRESSURE PIPING AREA B
1/4" = 1'-0"

NORTH

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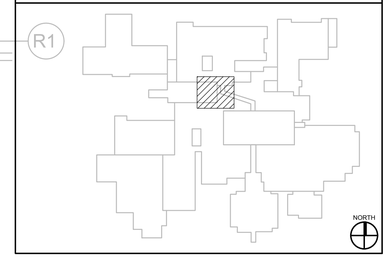
KEY NOTES

1. (E)MEDICAL GAS ALARM PANEL.
2. (E)MEDICAL GAS SHUTOFF VALVE PANEL. RE-LABEL TO REFLECT "MRI EXAM ROOM" CONTROLLED BY VALVES PER NFPA 99.
3. PROVIDE 1/2" TP LINE TO TRAP PRIMER INLET CONNECTION AT FLOOR SINK. REFER TO 3/P5-01 FOR DETAILS.
4. PROVIDE 1/2" ICW CONNECTION TO H-3.

KEY PLAN



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REGISTERED PROFESSIONAL ENGINEER RANK SHADPOUR No. 33923 MECHANICAL EXP. 9-30-21 STATE OF CALIFORNIA

REV	DESCRIPTION:	DATE:
1	OSHPD COMMENTS	8/3/2020
2	DESIGN CHANGES	8/10/2020
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4	DESIGN CHANGES	11/24/2020
5 6	ACD 0001 DESIGN CHANGES	4/10/2021
6 7	ACD 0001 DESIGN CHANGES	5/8/2021

CONSULTANT

Shadpour Consulting Engineers, Inc.

OSHPD APPROVAL STAMP:

OSHPD #: S200813-37-00-ACD0001

SHEET TITLE:

PLUMBING PLAN - PRESSURE PIPING AREA B

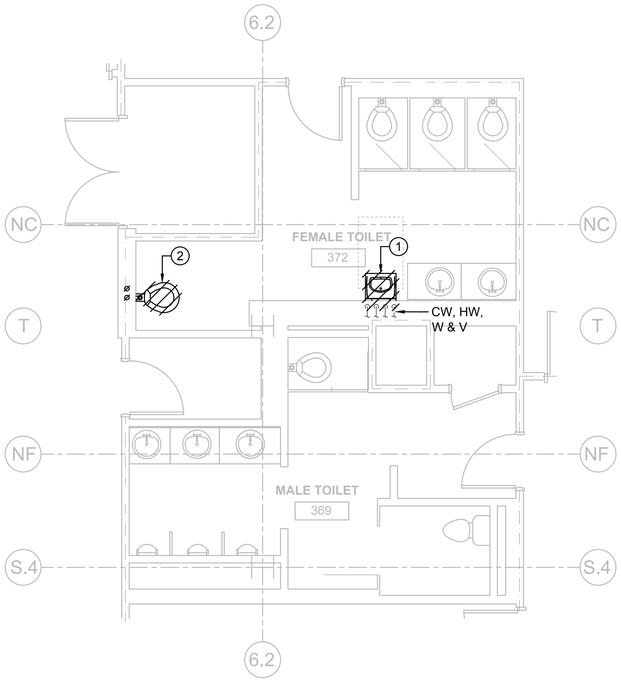
PROJECT TITLE:

TCMC MRI

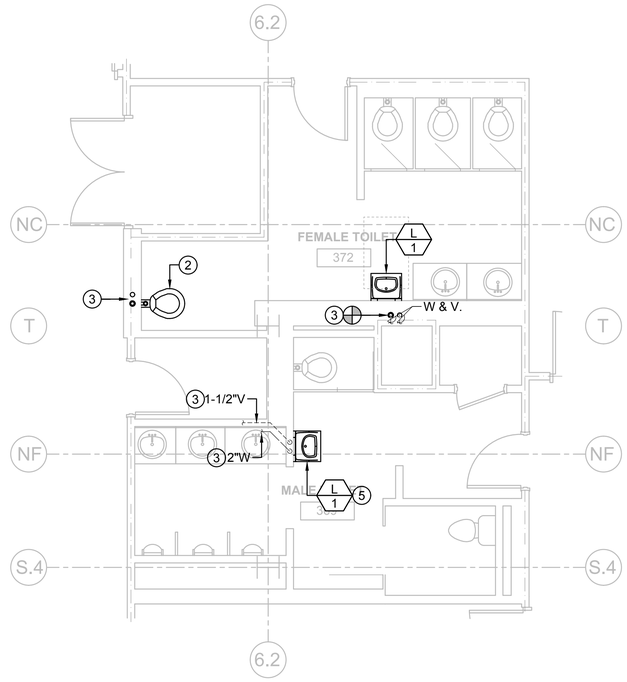
PROJECT #: 01907.01
DRAWN BY: SC
CHECKED BY: JC
SCALE: PER TITLE
DATE: 3/11/2020

SHEET NUMBER: P3-04

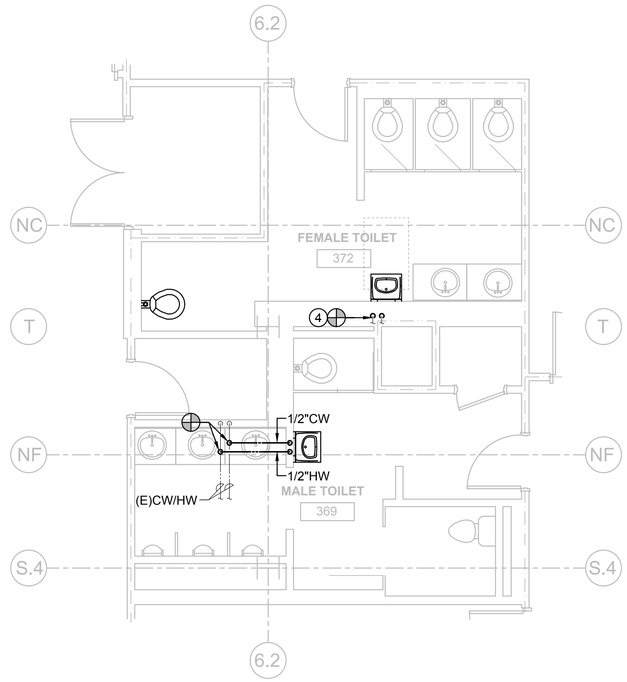
100% - CONSTRUCTION DOCUMENTS



1 ENLARGED PLUMBING PLAN - DEMOLITION
1/4" = 1'-0"



2 ENLARGED PLUMBING PLAN - WASTE & VENT
1/4" = 1'-0"



3 ENLARGED PLUMBING PLAN - PRESSURE PIPING
1/4" = 1'-0"

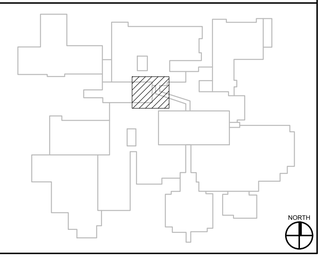
GENERAL NOTES

1. EXISTING CONDITIONS ARE BASED UPON INFORMATION OBTAINED FROM AVAILABLE AS-BUILT DRAWINGS AND LIMITED NON-DESTRUCTIVE FIELD INVESTIGATIONS. PERFORM A FULL SITE SURVEY WITHIN 30 DAYS OF COMMENCEMENT OF WORK. SURVEY SHALL BE ALL INCLUSIVE OF ALL AREAS WITHIN THE SCOPE OF WORK AND BEYOND AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM. NOTIFY OWNER IF CONDITIONS THAT DIFFER FROM DESIGN ARE IDENTIFIED THAT WILL IMPACT THE PROJECT.
2. UTILITY SERVICES TO THE BUILDING SHALL NOT BE INTERRUPTED UNLESS APPROVED BY THE OWNER. PROVIDE MINIMUM 2 WEEK NOTIFICATION IN ADVANCE OF UTILITY OUTAGES.

KEY NOTES

1. DEMOLISH LAVATORY.
2. RELOCATE WATER CLOSET AND CARRIER TO MEET ADA REQUIREMENTS. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION.
3. PROVIDE CONNECTION TO (E)WASTE & (E)VENT.
4. PROVIDE CONNECTION TO (E)1/2"CW & (E)1/2"HW.
5. PROVIDE 1-1/2"V & 2"W CONNECTION TO ADJACENT LAVATORY. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION.

KEY PLAN



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TCMC MRI

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7	ACD 0001 DESIGN CHANGES	5/9/2021

CONSULTANT

Shadpour Consulting Engineers, Inc.

OSHPD APPROVAL STAMP:

OSHPD #: S200813-37-00-ACD0001

SHEET TITLE:

ENLARGED PLUMBING PLANS

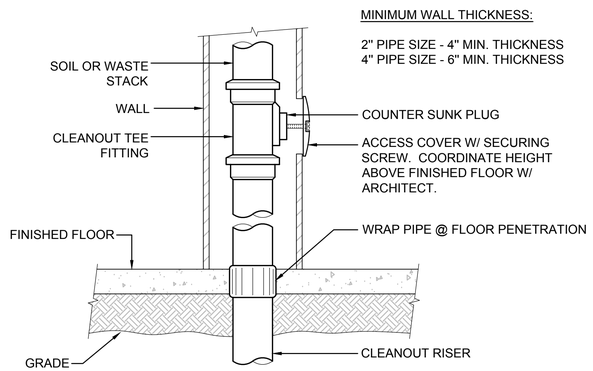
PROJECT TITLE:

TCMC MRI

PROJECT #: 01907.01
DRAWN BY: SC
CHECKED BY: JC
SCALE: PER TITLE
DATE: 3/11/2020

SHEET NUMBER: P4-01

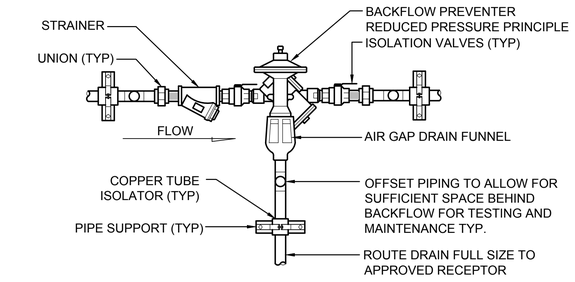
100% - CONSTRUCTION DOCUMENTS



WALL CLEANOUT DETAIL

SCALE: NONE

4 / P5-01

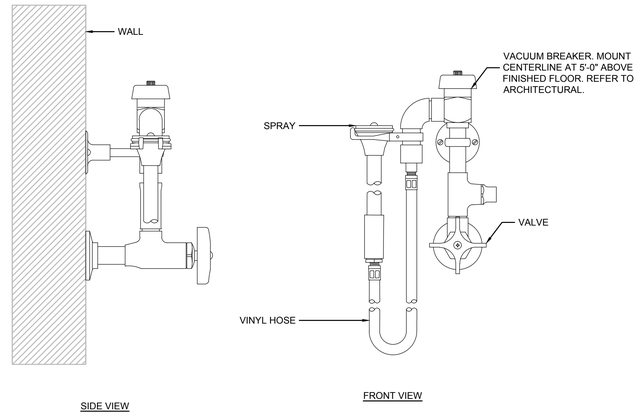


NOTE:
INSTALLATION SHALL COMPLY WITH CPC 603.4.3.
MAXIMUM INSTALLATION HEIGHT OF 5FT. INSTALL NOT LESS THAN 12 INCHES BETWEEN LOWEST PORTION OF ASSEMBLY AND FLOOR.

BACKFLOW PREVENTER MOUNTING DETAIL

SCALE: NONE

1 / P5-01



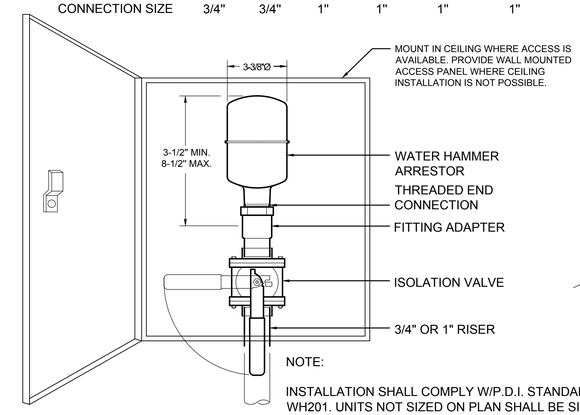
BEDPAN WASHER DETAIL

SCALE: NONE

5 / M5-01

WATER HAMMER ARRESTOR SCHEDULE

P.D.I. SIZE	"A"	"B"	"C"	"D"	"E"	"F"
FIXTURE UNITS	1-11	12-32	33-60	61-113	114-154	155-330
CONNECTION SIZE	3/4"	3/4"	1"	1"	1"	1"



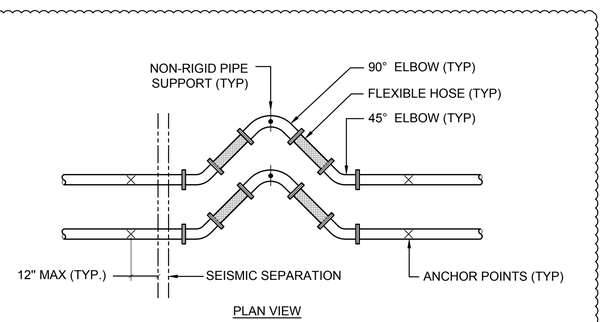
NOTE:

INSTALLATION SHALL COMPLY W/P.D.I. STANDARD WH201. UNITS NOT SIZED ON PLAN SHALL BE SIZED PER SCHEDULE ABOVE.

WATER HAMMER ARRESTOR DETAIL

SCALE: NONE

2 / P5-01



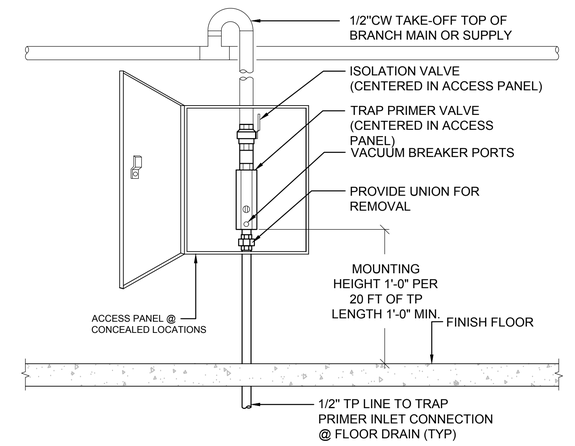
NOTES:

FLEXIBLE SEISMIC JOINT TO ACCOMMODATE BUILDING SEISMIC MOVEMENT IN THE LATERAL AND TRANSVERSE DIRECTION.

SEISMIC PIPING DETAIL

SCALE: NONE

3 / P5-01



TRAP PRIMER DETAIL

SCALE: NONE

3 / P5-01

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SHEET TITLE:

PLUMBING DETAILS

PROJECT TITLE:

TCMC MRI

PROJECT #: 01907.01
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PLUMBING FIXTURE SCHEDULE

SYMBOL	FIXTURE	ROUGH-IN						REMARKS
		HW	CW	W	TRAP	V	GPM/GPF	
WC 1	WATER CLOSET	NA	1-1/4"	4"	INT.	2"	1.28	WALL MOUNTED, BACK OUTLET, WHITE VITREOUS, MANUAL FLUSH VALVE, OFFSET BED PAN WASHER / LUGS, INSTALL ADA HEIGHT
L 1	LAVATORY	1/2"	1/2"	2"	1-1/2"	1-1/2"	0.5	WALL MOUNTED, WHITE VITREOUS CHINA, 4" CENTERSET MANUAL FAUCET, GOOSENECK SPOUT, ADA HEIGHT
L 2	LAVATORY	1/2"	1/2"	2"	1-1/2"	1-1/2"	0.5	COUNTER MOUNTED, WHITE VITREOUS CHINA, SELF RIMMING BOWL. 4" CENTERSET MANUAL FAUCET, GOOSENECK SPOUT
FS 1	FLOOR SINK	NA	NA	2"	1-1/2"	1-1/2"	NA	12"x12" SQ x 6" DEEP CAST IRON WITH PARTIAL GRATE FOR DISCHARGE PIPING. PROVIDE WITH TRAP PRIMER CONNECTION WHERE INDICATED ON PLANS.
S 1	SINK	1/2"	1/2"	2"	1-1/2"	1-1/2"	1.5	WALL MOUNTED, 18 GAUGE STAINLESS STEEL SINK 2-HOLE SINK, DECK FAUCET GOOSENECK WITH DUAL WRIST BLADE HANDLES
BPW 1	BED PAN WASHER	NA	1/2"	NA	NA	NA	NA	BED PAN WASHER WITH INTEGRAL VACUUM BREAKER, ANGLE KEY STOPS, WALL MOUNTED SHUT-OFF VALVE, 5' HOSE AND SPRAY HEAD

1. PLUMBING FIXTURES AND FITTINGS SHALL MEET STANDARDS REFERENCED IN CPC TABLE 5.303.6 2. FAUCETS FOR LAVATORIES AND SINKS SHALL NOT BE EQUIPPED WITH AERATORS (CPC 402.7)

PLUMBING EQUIPMENT SCHEDULE

SYMBOL	TYPE	DESCRIPTION
TP 1	TRAP PRIMER	ASME 1018, 125 PSIG MIN. PRESSURE RATING
BFP 1	BACKFLOW PREVENTER	HORIZONTAL INTERIOR MOUNTED DOMESTIC WATER BACKFLOW PREVENTER. 5 PSIG MAX PRESSURE DROP @ 2.6 GPM. PROVIDE FLOOR SINK DRAIN CONNECTION.
BFP 2	BACKFLOW PREVENTER	HORIZONTAL INTERIOR MOUNTED DOMESTIC WATER BACKFLOW PREVENTER. 5 PSIG MAX PRESSURE DROP @ 0.5 GPM. PROVIDE FLOOR SINK DRAIN CONNECTION.

MEDICAL GAS OUTLET SCHEDULE

SYMBOL	LOCATION	TYPE	REMARKS
MO 1	MRI EXAM ROOM	AMICO WALL OUTLET	PROVIDE ONE OUTLET FOR MEDICAL AIR, MEDICAL VACUUM AND OXYGEN. SIZE PER FLOOR PLAN
MO 2	TRANSFER ROOM	AMICO WALL OUTLET	PROVIDE ONE OUTLET FOR MEDICAL AIR, MEDICAL VACUUM AND OXYGEN. SIZE PER FLOOR PLAN

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7	ACD 0001 DESIGN CHANGES	5/8/2021

CONSULTANT

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OSHPD APPROVAL STAMP:

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SHEET TITLE:

PLUMBING SCHEDULES

PROJECT TITLE: TCMC MRI

PROJECT #: 01907.01
DRAWN BY: SC
CHECKED BY: JC
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DATE: 3/11/2020

SHEET NUMBER: P6-01

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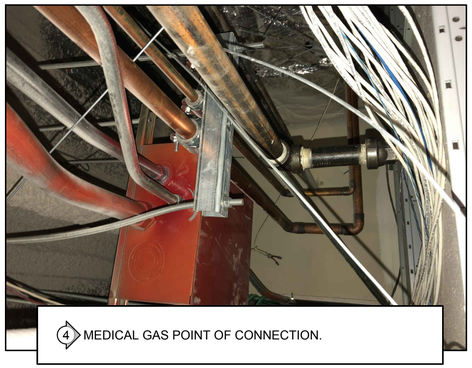
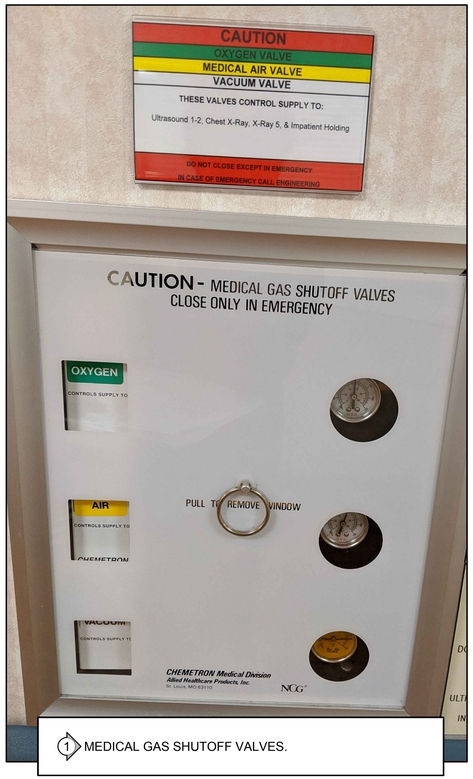
8 OVERFLOW STORM DRAIN.



4 MEDICAL GAS POINT OF CONNECTION.



1 MEDICAL GAS SHUTOFF VALVES.

9 SANITARY WASTE.

5 WATER MAINS IN CORRIDOR.

6 WALL CLEANOUT.

2 MEDICAL GAS ALARM.

7 CW & HW VALVES.

3 SANITARY WASTE.

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CONSULTANT

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OSHPD APPROVAL STAMP:

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PLUMBING PHOTOS

PROJECT TITLE:

TCMC MRI

PROJECT #: 01907.01
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P7-01

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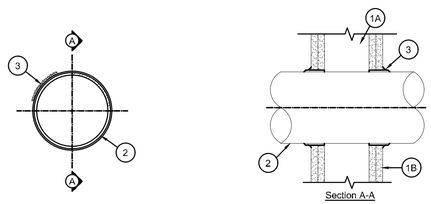

GENERAL NOTES

33. ELECTRICAL DRAWINGS ARE DIAGRAMMATIC. AS SUCH, ALL ELECTRICAL EQUIPMENT LOCATIONS, CONDUIT ROUTING, ETC. ARE NOT PRECISE AND SHALL BE COORDINATED, VERIFIED, AND DETERMINED IN THE FIELD. EC TO INSTALL ALL ELECTRICAL EQUIPMENT AND ROUTE ALL CONDUITS IN LOCATIONS WHICH MEET CODE REQUIREMENTS FOR ACCESSIBILITY/MOUNTING AND DO NOT INTERFERE WITH ANY BUILDING STRUCTURES, UTILITIES, OR OTHER TRADE EQUIPMENT.
34. ALL EXISTING SITE RELATED ELECTRICAL EQUIPMENT (I.E. UNDERGROUND UTILITIES, DUCTS, STRUCTURES, PULL BOXES, ETC.) LOCATIONS ARE DIAGRAMMATIC IN NATURE AND ONLY REFLECT APPROXIMATE LOCATIONS, QUANTITIES, AND/OR ROUTING INFORMATION. ALL REFERENCED INFORMATION HAS EITHER BEEN SURVEYED, REPORTED BY THE OWNER/ OWNERS REP, AND/OR REFERENCED ON AN AS-BUILT RECORD DOCUMENTS. ALL EXISTING ELECTRICAL EQUIPMENT REFERENCE D ON THESE DRAWINGS IS TO BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF WORK. BY ACCEPTING THESE PLANS OR PROCEEDING WITH ELECTRICAL SCOPE OF WORK, AGREES TO ACCEPT LIABILITY AND SHALL RENDER THE ENGINEER OF RECORD HARMLESS FOR ANY ELECTRICAL EQUIPMENT NOT REPORTED TO THE ENGINEER DURING THE DESIGN PROCESS. THE CONTRACT TO TAKE THE REQUIRED PRECAUTIONARY MEASURES TO ENSURE ALL EXISTING ELECTRICAL EQUIPMENT IS PROTECTED IN PLACE.
35. ANY EXISTING BUILDING STRUCTURES OR SURFACES DAMAGED BY DEMOLITION OR DURING INSTALLATION ACTIVITIES SHALL BE REPAIRED, PATCHED, AND/OR REFINISHED TO THE SATISFACTION OF THE OWNER.
36. ALL EXISTING ELECTRICAL EQUIPMENT INDICATED TO BE DEMOLISHED SHALL BE REMOVED ENTIRELY AND ALL AFFECTED SURFACES OR STRUCTURES SHALL BE REPAIRED, REPLACED, AND/OR REFINISHED TO MATCH THE ADJACENT SURFACES OR DAMAGED ITEM(S).
37. FOR CLARITY ONLY RECONSTRUCTION OR NEW WORK RELATED ELEMENTS AND SELECT EXISTING FACILITIES SPECIFICALLY REQUIRING COORDINATION WITH ANY NEW WORK.
38. ALL CONDUITS, BOXES, SURFACE MOUNTED RACEWAYS, SUPPORT DEVICES, AND ASSOCIATED FITTINGS SHALL BE MOUNTED IN CONCEALED LOCATIONS ABOVE CEILINGS, DUCTS, TRUSSES, BEAMS, ETC. IN AREAS WHERE A CONCEALED MOUNTING LOCATION IS NOT AVAILABLE EQUIPMENT SHALL BE PAINTED TO MATCH THE ADJACENT SURFACES.
39. PENETRATIONS BY CONDUITS OR OTHER ELECTRICAL EQUIPMENT THROUGH A FIRE RATED WALL - WHETHER EXISTING OR NEW - SHALL MAINTAIN THE APPROPRIATE FIRE RATING BY SEALING THE PENETRATION WITH THE APPROPRIATE UL-LISTED FIRE-STOP MATERIAL/SYSTEM.
40. INTENT OF THE CONSTRUCTION DOCUMENTS IS TO RECONSTRUCT THE HOSPITAL BUILDING IN ACCORDANCE WITH THE 2019 CBSC. SHOULD ANY CONDITION DEVELOP NOT COVERED BY THE APPROVED CONSTRUCTION DOCUMENTS, WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH THE 2019 CBSC, AMENDED CONSTRUCTION DOCUMENTS (ACDs) DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY OSHPD BEFORE PROCEEDING WITH THE WORK.

PIPING, DUCTWORK AND ELEC. DIST. SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 PER OSHPD CAN 1-0 AND 2019 CBC, SECTIONS 1617A. △1

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PRE-APPROVED INSTALLATION GUIDE (E.G. OSHPD OPM), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP, MECHANICAL DUCTS (MD), PLUMING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP ☐ MD ☐ PP ☐ E ☐ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS

MP ☐ MD ☐ PP ☐ E ☒ OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPM #) #0043-13 or 0052-13

NOTE:

ALL LOW VOLTAGE CONDUIT FOR MECHANICAL CONTROLS PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR. SEE MECHANICAL DRAWINGS FOR LOCATIONS.

CONDUIT GRAVITY SUPPORT AND SEISMIC BRACING NOTES FOR DEFERRED SUBMITTALS

1. SUPPORT AND BRACING FOR CONDUIT INSTALLED WITH THIS SCOPE OF SERVICES IS TO BE PROVIDED AND INSTALLED PER OPM-0043-13 MASON SEISMIC RESTRAINT COMPONENTS FOR SUSPENDED UTILITIES OR OTHER APPROVED OSHPD OPM.

2. LAYOUT DRAWINGS IDENTIFYING/DEMONSTRATING THE BRACING/SUPPORT LOCATIONS AND REFERENCES TO DETAILS FROM THE RELEVANT OSHPD PRE-APPROVALS ARE TO BE SUBMITTED FOR USE BY THE INSPECTOR OF RECORD AND OSHPD FIELD STAFF. THE LAYOUT DRAWINGS ARE TO BE PREPARED BY THE SUBCONTRACTOR AND SIGNED BY A LICENSED STRUCTURAL ENGINEER PER ASCE 7 CHAPTER 16/OSHPD CAN 1-0 AS MODIFIED BY △1 2019 CBC SECTIONS 1617A. REFERENCES TO DETAILS FROM THE OSHPD PRE-APPRVAL ARE TO BE FOR AN ENTIRE DETAIL AS SUBMITTED OR REFERENCE IS TO BE PREPARED FOR EACH ASPECT OF A SUBMITTED DETAIL. CUSTOM DETAILS ARE TO BE PROVIDED FOR SITUATIONS WHERE OSHPD PRE-APPROVALS DO NOT APPLY. AT LEAST 4-WEEKS PRIOR TO BEGINNING INSTALLATION FOUR COPIES OF THE PLANS ARE TO BE SUBMITTED TO THE ARCHITECT OF RECORD WHO WILL SUBMIT THEM TO THE STRUCTURAL ENGINEER OF RECORD FOR REVIEW AND APPROVAL. AFTER THIS APPROVAL DRAWINGS WILL BE SUBMITTED TO THE OSHPD DISTRICT STRUCTURAL ENGINEER FOR REVIEW AND APPROVAL. THE PLANS SHALL BE COORDINATED WITH THE PLANS AND OTHER TRADES. A COPY OF THE CHOSEN BRACING SYSTEM INSTALLATION GUYED/MANUAL IS REQUIRED TO BE ON THE JOBSITE PRIOR TO THE START OF INSTALLATION.

3. THE STRUCTURAL ENGINEER WILL DETERMINE THE APPROPRIATE SEISMIC FORCES BASED ON THE DESIGN CRITERIA INCLUDED IN THE STRUCTURAL DRAWINGS.

4. ONCE THE LOCATIONS OF ALL CONDUIT HAVE BEEN ESTABLISHED, THE STRUCTURAL ENGINEER MUST CHECK THE ADEQUACY OF THE SUPPORTING STRUCTURE TO ENSURE THAT THE ORIGINAL DESIGN IS STILL ADEQUATE. THE INSPECTOR OF RECORD IS TO ENSURE THAT ALL WORK IS PROPERLY INSTALLED PER THE APPLICABLE OSHPD PRE-APPROVAL.

MISCELLANEOUS SYMBOLS

d1 D a — ON/OFF WALL MOUNTED DIGITIAL SWITCH WITH RAISE/LOWER. MOUNT PER ADA DEVICE MOUNTING DETAIL U.O.N. LOWER CASE LETTER REFERS TO QUANTITY OF DEVICES AND REFERENCES CORRESPONDING FIXTURE SWITCH LEG(S). DEVICE TO BE nLIGHT #nPODM DX (COLOR PER ARCHITECT) OR APPROVED EQUAL DEVICE. REFER TO LIGHTING CONTROL WIRING DIAGRAM DETAIL 2 ON E0-02 FOR ADDITIONAL REQUIREMENTS.

d2 D ab — 2-CHANNEL ON/OFF WALL MOUNTED DIGITIAL SWITCH WITH RAISE/LOWER. MOUNT PER ADA DEVICE MOUNTING DETAIL U.O.N. LOWER CASE LETTER REFERS TO QUANTITY OF DEVICES AND REFERENCES CORRESPONDING FIXTURE SWITCH LEG(S). DEVICE TO BE nLIGHT #nPODM 2P DX (COLOR PER ARCHITECT) OR APPROVED EQUAL DEVICE. REFER TO LIGHTING CONTROL WIRING DIAGRAM DETAIL 2 ON E0-02 FOR ADDITIONAL REQUIREMENTS.

d4 D abcd — 4-CHANNEL ON/OFF WALL MOUNTED DIGITIAL SWITCH WITH RAISE/LOWER. MOUNT PER ADA DEVICE MOUNTING DETAIL U.O.N. LOWER CASE LETTER REFERS TO QUANTITY OF DEVICES AND REFERENCES CORRESPONDING FIXTURE SWITCH LEG(S). DEVICE TO BE nLIGHT #nPODM 4P DX (COLOR PER ARCHITECT) OR APPROVED EQUAL DEVICE. REFER TO LIGHTING CONTROL WIRING DIAGRAM DETAIL 2 ON E0-02 FOR ADDITIONAL REQUIREMENTS.

s4 D abcd — 4-SCENE ON/OFF WALL MOUNTED DIGITAL SWITCH WITH RAISE/LOWER. MOUNT PER ADA DEVICE MOUNTING DETAIL U.O.N. LOWER CASE LETTER REFERS TO QUANTITY OF DEVICES AND REFERENCES CORRESPONDING FIXTURE SWITCH LEG(S). DEVICE TO BE nLIGHT #nPODM 4S DX (COLOR PER ARCHITECT) OR APPROVED EQUAL DEVICE. REFER TO LIGHTING CONTROL WIRING DIAGRAM DETAIL 2 ON E0-02 FOR ADDITIONAL REQUIREMENTS.

S a — WALL MOUNTED PASSIVE INFRARED OCCUPANCY SENSOR. MOUNT PER ADA DEVICE MOUNTING DETAIL. DEVICE TO BE WATTSTOPPER #DW-200 OR APPROVED EQUAL DEVICE.

LCE a — nLIGHT #nPP16 D ER SA RELAY PACK FOR VACANCY MODE CONTROL OF EMERGENCY LIGHTING DEVICE IS TO BE MOUNTED TO A 4S BOX ABOVE THE CEILING IN AN ACCESSIBLE LOCATION AND INTERFACED WITH ROOM/SPACE OCCUPANCY SENSOR(S) AND DIGITAL SWITCH DEVICES. OWER CASE LETTER REFERS TO QUANTITY OF DEVICES AND REFERENCES CORRESPONDING FIXTURE SWITCH LEG(S). REFER TO LIGHTING CONTROL WIRING DIAGRAM DETAIL 2 ON E0-02 FOR ADDITIONAL REQUIREMENTS.

LC1 a — nLIGHT #nPP16 D SA RELAY PACK FOR CONTROL OF NORMAL LIGHTING DEVICE IS TO BE MOUNTED TO A 4S BOX ABOVE THE CEILING IN AN ACCESSIBLE LOCATION AND INTERFACED WITH ROOM/SPACE OCCUPANCY SENSOR(S) AND DIGITAL SWITCH DEVICES. OWER CASE LETTER REFERS TO QUANTITY OF DEVICES AND REFERENCES CORRESPONDING FIXTURE SWITCH LEG(S). REFER TO LIGHTING CONTROL WIRING DIAGRAM DETAIL 2 ON E0-02 FOR ADDITIONAL REQUIREMENTS.

NOTE: ALL LIFE SAFETY AND CRITICAL FEEDER/BRANCH CIRCUITS WILL NEED TO BE MECHANICALLY PROTECTED TO COMPLY WITH CEC 517.30(C)(3).

1. THE ELECTRICAL CONTRACTOR (EC) SHALL INCLUDE AND PROVIDE IN BID ALL LABOR AND MATERIALS NECESSARY FOR A COMPLETE AND OPERATIONAL INSTALLATION OF ALL ELECTRICAL SYSTEMS.
2. EC SHALL COORDINATE AND OBTAIN ALL APPROVALS, PERMITS, AND DOCUMENTS FROM REGULATORY AGENCIES AND UTILITY COMPANIES.
3. ALL CONDUIT RACEWAY SYSTEMS ARE TO BE INSTALLED AS FOLLOWS:
   a. RIGID GALVANIZED STEEL IS TO BE INSTALLED IN ALL AREAS WHICH ARE EXPOSED TO WEATHER AND/OR PHYSICAL DAMAGE.
   b. FLEXIBLE METALLIC CONDUIT I S PERMITTED FOR SHORT CONNECTIONS TO LIGHT FIXTURES (6'-0" MAX). FLEXIBLE CONDUIT SHALL ALSO BE INSTALLED FOR EQUIPMENT REQUIRING VIBRATION ISOLATION AND HORIZONTAL RUNS IN WOODEN STUD WALLS.
   c. ELECTRICAL METALLIC TUBING (EMT) WITH COMPRESSION TYPE FITTINGS SHALL BE USED FOR BUILDING INTERIOR WORK.
   d. P.V.C. CONDUIT SHALL BE USED FOR UNDERGROUND CONDUITS. ROUTE CODE SIZED GROUND WIRE INSIDE OF CONDUIT. CONDUIT RISERS AND STUBS ABOVE GRADE SHALL BE I.M.C. WITH HALF-LAPPED TAPE COVERING OR P.V.C. COATING.
4. UNLESS OTHERWISE NOTED OR REFERENCED ON THE DRAWINGS ALL NEW ELECTRICAL WIRING IS TO BE 600V RATED COPPER WITH TYPE "THHN/THWN" INSULATION.
5. ALL MOUNTING HEIGHTS REFERENCED ON DRAWINGS ARE MEASURED FROM FINISHED FLOOR UNLESS OTHERWISE REFERENCED OR INDICATED ON THE DRAWINGS.
6. ALL ELECTRICAL EQUIPMENT LOCATIONS (LIGHTING, RECEPTACLE, FLOOR BOX, ETC.) ARE TO BE VERIFIED WITH THE ARCHITECT AND/OR EQUIPMENT SUPPLIER PRIOR TO BEGINNING ANY ROUGH-IN.
7. ALL LIGHTING FIXTURES SHALL BE MOUNTED AND SUPPORTED IN ACCORDANCE WITH OSHA STANDARDS, AND ALL STATE, LOCAL, SEISMIC, AND NATIONAL ELECTRIC CODES.
8. THE DRAWINGS INCLUDED IN THIS DOCUMENT SET ARE DIAGRAMMATIC. THEY ARE REPRESENTATIVE OF THE ENGINEER OF RECORDS DESIGN INTENT FOR ALL ELECTRICAL DEVICES/EQUIPMENT AND THE INDIVIDUAL POWER FEEDS THEY ARE TO BE CONNECTED TO. THE SELECTED EC SHALL BE RESPONSIBLE FOR PROVIDING ALL J-BOXES, CONDUIT, WIRING/CABLING, ETC. AS REQUIRED FOR A COMPLETE AND OPERATIONAL ELECTRICAL INSTALLATION.
9. ALL ELECTRICAL EQUIPMENT (PANELS, RECEPTACLES, J-BOXES, ETC.) SHALL BE WEATHERPROOF AND/OR INSTALLED IN A NEMA 3R ENCLOSURE WHERE APPLICABLE OR INSTALLED OUTDOORS.
10. ALL ELECTRICAL WORK SHALL BE PERFORMED ACCORDING TO STATE, LOCAL, NATIONAL, AND DISTRICT STANDARDS AND CODES. COORDINATE SPECIFIC REQUIREMENTS WITH DISTRICT STANDARDS AND AUTHORITY HAVING JURISDICTION.
11. ALL ELECTRICAL EQUIPMENT SHALL BE NEW AND IS TO BE CLEARLY LABELED/ IDENTIFIED AS UNDERWRITER LABORATORIES (UL) COMPLIANT UNLESS OTHERWISE NOTED OR REFERENCED IN THE DRAWINGS OR SPECIFICATIONS. ANY EQUIPMENT WITH A LISTING OTHER THAN "UL" OR OTHER NATIONALLY RECOGNIZED TESTING LABORATORY (NRTL) LISTING AS REFERENCED IN CEC 110.2 (I.E. EQUIPMENT WITH A RECOGNIZED "UR/"RU" LISTING) ARE NOT PERMITTED FOR USE.
12. EC IS RESPONSIBLE FOR SECURING ALL REQUIRED BUILDING PERMITS AND SHALL INCLUDE THE COST TO SECURE BUILDING PERMITS IN THEIR FINAL BID.
13. UNLESS OTHERWISE WRITTEN, STATED, OR REFERENCED IN DRAWINGS OR SPECIFICATIONS CONTRACTOR SHALL GUARANTEE THE COMPLETE ELECTRICAL INSTALLATION FOR A PERIOD OF 1-YEAR.
14. ALL ELECTRICAL DISTRIBUTION EQUIPMENT (PANELS, DISTRIBUTION BOARDS, TRANSFORMERS, ETC), FEEDERS (CONDUIT, CONDUCTOR SIZE, AND QUANTITY), MECHANICAL EQUIPMENT, ELEVATORS, VARIABLE FREQUENCY DRIVES (VFD'S), ETC. MAY ONLY BE REFERENCED ON THE SINGLE-LINE DRAWING AND NOT INDIVIDUAL PLAN SHEETS. EC SHALL REVIEW AND VERIFY ALL REFERENCED INFORMATION ON THE SINGLE-LINE DRAWING.
15. EC SHALL BE RESPONSIBLE FOR ALL REQUIRED SAW-CUTTING, CORE DRILLING, PATCHING, REFINISHING, ETC. AS REQUIRED FOR INSTALLATION OF ELECTRICAL EQUIPMENT AND SYSTEMS. ANY PENETRATIONS OR OPENINGS MADE IN WALLS OR STRUCTURES SHALL BE PATCHED AND/OR SEALED AS REQUIRED TO MAINTAIN THE INTEGRITY AND/OR RATING OF THE WALL OR STRUCTURE.
16. EC SHALL VISIT THE SITE PRIOR TO SUBMISSION OF THEIR FINAL BID TO VERIFY ALL EXISTING SITE CONDITIONS WHICH MAY AFFECT THE COMPLETION OF THE ELECTRICAL INSTALLATION. ALL METHODS AND REQUIREMENTS FOR \ INSTALLATION SHALL BE DETERMINED PRIOR TO BID DATE. ELECTRICAL EC SHALL NOTIFY THE ENGINEER OF RECORD OF ANY REQUIRED MODIFICATIONS WHICH ARE NOT REFERENCED ON THESE ELECTRICAL PLANS. SUBMITTAL OF THE EC'S BID DEMONSTRATES THE CONTRACTOR'S AWARENESS OF ALL SITE CONDITIONS AND REQUIRED WORK TO BE PERFORMED.
17. ALL CEILINGS AND CEILING SYSTEMS AS A RULE ARE CONSIDERED TO BE INACCESSIBLE. ALL ELECTRICAL DEVICES AND EQUIPMENT INSTALLED ABOVE CEILINGS ARE TO BE MOUNTED IN A LOCATION WHICH IS ACCESSIBLE. IN SITUATIONS WHERE ELECTRICAL DEVICES AND EQUIPMENT MUST BE INSTALLED IN AN AREA WHICH IS INACCESSIBLE, EC SHALL INSTALL AN ADEQUATELY SIZED, CODE COMPLIANT ACCESS PANEL AS REQUIRED BY CURRENT CODES - LOCATION OF THE REQUIRED ACCESS PANEL SHALL BE COORDINATE WITH THE ARCHITECT AND INTERIOR DESIGNER PRIOR TO ROUGH-IN.
18. EC IS RESPONSIBLE FOR COMPLETING ALL FINAL ELECTRICAL CONNECTIONS TO OWNER FURNISHED EQUIPMENT AND SHALL PROVIDE ALL MOTOR START SWITCHES, DISCONNECTS, ETC. AS REQUIRED.
19. ALL ELECTRICAL EQUIPMENT CONNECTIONS, MOUNTING LOCATIONS, ELECTRICAL REQUIREMENTS, ETC. ARE TO BE COORDINATED AND VERIFIED PRIOR TO COMMENCEMENT OF ELECTRICAL ROUGH-IN.
20. EC TO SUBMIT SHOP DRAWINGS FOR THE APPROVAL OF THE ELECTRICAL ENGINEER OF RECORD FOR ALL ELECTRICAL EQUIPMENT AND MATERIALS TO BE UTILIZED IN THE ELECTRICAL INSTALLATION. ALL APPROVALS BY THE ENGINEER OF RECORD MUST BE SECURED PRIOR TO COMPLETION OF ANY PURCHASE ORDERS OR ROUGH-IN WORK.
21. THESE ELECTRICAL DRAWINGS AND ASSOCIATED SPECIFICATIONS ARE TO BE CONSIDERED CONTRACT DOCUMENTS FOR AGENCY REVIEW/APROVAL AND EC BIDDING PURPOSES.
22. THE COMPLETE ELECTRICAL SYSTEM SHALL BE GROUNDED IN ACCORDANCE WITH NEC/CEC ARTICLE 250. ALL POWER AND LIGHTING CIRCUITS SHALL BE INSTALLED WITH A MINIMUM #12AWG CU GROUND WIRE UNLESS OTHERWISE NOTED OR REFERENCED.
23. EC TO PROVIDE ENGRAVED PHENOLIC NAMEPLATES ON ALL DISCONNECT SWITCHES, DISTRIBUTION EQUIPMENT, J-BOXES ETC. WITH METALLIC COVERS. SEE GENERAL NOTES ON SINGLE-LINE DIAGRAM FOR SPECIFIC INFORMATION REGARDING NAMEPLATE REQUIREMENTS.
24. ALL COVER PLATES FOR LIGHT SWITCHES AND OUTLETS SHALL BE STAINLESS STEEL WITH PANEL AND CIRCUIT ENGRAVED NAMEPLATES - UNLESS OTHERWISE NOTED. PLASTIC COVER PLATES WITH THE APPROPRIATE COLOR SHALL BE PERMITTED IN ALL OTHER AREAS - UNLESS OTHERWISE NOTED. IN INSTANCES WHERE PLASTIC COVER PLATES ARE UTILIZED EC SHALL WALL MOUNT AN ENGRAVED PHENOLIC NAMEPLATE WITH THE PANEL AND CIRCUIT NUMBER DIRECTLY ABOVE THE DEVICE.
25. AT THE COMPLETION OF THE PROJECT THE EC SHALL PROVIDE THE OWNER WITH A COMPLETE SET OF AS-BUILT ELECTRICAL DRAWINGS.
26. ANY AND ALL WORK THAT REQUIRES AN INTERRUPTION TO A BUILDING(S) ELECTRICAL SERVICE MUST BE COORDINATED WITH THE DISTRICT A MINIMUM OF 48 HOURS IN ADVANCE. ANY SERVICE DOWNTOWN SHALL NOT OCCUR DURING FACILITY HOURS.
27. EC SHALL BE RESPONSIBLE FOR FOR ENSURING THAT ALL LOW VOLTAGE SYSTEMS ARE COMPATIBLE AND ARE COMPLETE AND OPERATIONAL.
28. EC SHALL PERMANENTLY TAG ALL CONDUCTORS IN EACH ELECTRICAL AND LOW VOLTAGE SYSTEM AS REFERENCED IN THE SPECIFICATIONS.
29. ANY SURFACE MOUNTED EXPOSED CONDUIT IN VIEW OF THE PUBLIC SHALL BE PAINTED TO MATCH THE FINISH OF THE SURFACE TO WHICH IT IS MOUNTED WITH TWO (2) COATS OF PAINT. ALL EXTERIOR SURFACE MOUNTED EXPOSED CONDUITS ARE TO BE PAINTED WITH TWO (2) COATS OF WEATHERPROOF LATEX PAINT.
30. EC TO PROVIDE ALL CONDUIT ONLY (C.O.) INFRASTRUCTURE WITH A 3/16" NYLON LL ROPE. LABEL PULL ROPE AT EACH END WITH THE LOCATIONS OF ORIGIN AND TERMINATION.
31. IN INSTANCES WHERE A CONFLICT BETWEEN THE ELECTRICAL DRAWINGS AND THE SPECIFICATIONS FOR THE PROJECT EXISTS, THE EC SHALL ADHERE TO THE MORE STRINGENT REQUIREMENT.
32. SUPPORTS AND ATTACHMENTS OF ALL EQUIPMENT TO BE INSTALLED AS A PART OF THIS PROJECT SHALL BE DETAILED ON CONSTRUCTION DOCUMENTS, EXCEPT THOSE EXEMPTED BY THE 2019 CBC SECTION 1616A.1.18. EQUIPMENT SUPPORTS AND ATTACHMENTS SHALL BE APPROVED BY THE APPROPRIATE REGISTERED DESIGN PROFESSIONAL (RDP) AND OSHPD AS A PART OF FIELD REVIEWS/OBSERVATIONS. THE INSPECTOR OF RECORD (IOR) SHALL ASSURE THAT THE ABOVE REQUIREMENTS ARE ENFORCED.

ABBREVIATIONS

4S/DP	4" SQUARE BY 2 1/8" DEEP BOX
ADA	AMERICAN WITH DISABILITIES ACT
A.F.F.	ABOVE FINISH FLOOR
A.F.G.	ABOVE FINISH GRADE
AWG	AMERICAN WIRE GAUGE
AMP, A	AMPERE
A.I.C.	AMPERES INTERRUPTING CAPACITY (SYMMETRICAL)
AF/AT	AMP FRAME, AMP TRIP
AHJ	AUTHORITY HAVING JURISDICTION
AS/AF	AMP SWITCH, AMP FUSE
ATS	AUTOMATIC TRANSFER SWITCH
AVG	AVERAGE
BDF	BUILDING DISTRIBUTION FRAME
BR	BRANCH
BLDG	BUILDING
CEC	CALIFORNIA ELECTRICAL CODE
CIRC., CKT.	CIRCUIT
CB	CIRCUIT BREAKER
CSFD	COMBINATION SMOKE FIRE DAMPER
C	CONDUIT
C.O.	CONDUIT ONLY, COMPLETE WITH PULLSTRING
CONN	CONNECTED
CPT	CONTROL POWER TRANSFORMER
CLCB	CURRENT LIMITING CIRCUIT BREAKER
CLF	CURRENT LIMITING FUSE
CT	CURRENT TRANSFORMER
DIA	DIAMETER
DISC	DISCONNECT
DIST	DISTRIBUTION
E	EXISTING EQUIP. TO REMAIN
E.C.	ELECTRICAL CONTRACTOR
EMS	ENERGY MANAGEMENT CONTROL SYSTEM
EMT	ELECTRICAL METALLIC TUBING
ENT	ELECTRICAL NON-METALLIC TUBING
EWC	ELECTRIC WATER COOLER
E.P.O.	EMERGENCY POWER OFF
E-O-L	END-OF-LINE CIRCUIT TERMINATOR.
EF	EXHAUST FAN
EP	EXPLOSION PROOF
ER*	EXISTING EQUIP. TO BE REOLCATED (* CORRESPONDS TO NEW LOCATION)
ERT*	NEW LOCATION FOR REOLCATED EQUIP. (* CORRESPONDS TO PREVIOUS LOCATION)
FT or '	FEET
FA	FIRE ALARM
FLA	FULL LOAD AMPS
GFCI	GROUND FAULT CIRCUIT INTERRUPTER.
GFP	GROUND FAULT PROTECTION
GEC	GROUNDING ELECTRODE CONDUCTOR
HACR	HEATING AIR CONDITIONING REFRIGERATION
HP	HORSEPOWER
IN. or "	INCHES
JBOX	JUNCTION BOX
K	DEGREE KELVIN
MCM	THOUSAND CIRCULAR MILS
KVA	KILOVOLT AMPERES
KW	KILOWATT
KWH	KILOWATT HOUR
LCL	LONG CONTINUOUS LOAD

LTG, LTS	LIGHTING
LPS	LOW PRESSURE SODIUM
MAX.	MAXIMUM
MDF	MAIN DISTRIBUTION FRAME
MOCP	MAXIMUM OVERCURRENT PROTECTION
MCB	MAIN CIRCUIT BREAKER
MLO	MAIN LUGS ONLY
M.C.	MECHANICAL CONTRACTOR
M	METER
M/M	METER MAIN
MV	MERCURY VAPOR
MH	METAL HALIDE
MIN.	MINIMUM
MCA	MINIMUM CIRCUIT AMPS
MCC	MOTOR CONTROL CENTER
MCM	THOUSAND CIRCULAR MILS
MCP	MOTOR CIRCUIT PROTECTOR
MFR.	MANUFACTURER
MTD	MOUNTED
MW	MICROWAVE
N	NEW EQUIP.
NATS	NON AUTOMATIC DISCONNECT
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS' ASSOCIATION
NC	NORMALLY CLOSED
NO	NORMALLY OPENED
NF	NON-FUSED
NIC	NOT IN CONTRACT
N.T.S.	NOT TO SCALE
NL	NIGHT LIGHT
NO. or #	NUMBER
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED.
%Z	PERCENT IMPEDANCE
PH. or ~	PHASE
PC	PHOTOCELL
PVC	POLY VINYL CHLORIDE
PDU	POWER DISTRIBUTION UNIT
PRIMARY	OVER 600 VOLTS
PROVIDE	FURNISH, INSTALL AND CONNECT.
REC, RECEPT	RECEPTACLE
REF	REFRIGERATOR
RGS	RIGID GALVANIZED STEEL
RMS	ROOT MEAN SQUARE
SCC	SHORT CIRCUIT CURRENT
SCS	STRUCTURED CABLING SYSTEM
SFD	SMOKE FIRE DAMPER
SECONDARY	600 VOLTS AND LESS
TV	TELEVISION
T.V.S.S.	TRANSIENT VOLTAGE SURGE SUPPRESSION
TYP	TYPICAL
U.G.P.S.	UNDERGROUND PULL SECTION
U.O.N.	UNLESS OTHERWISE NOTED
U.P.S.	UNINTERRUPTABLE POWER SYSTEM
V	VOLTS
VA	VOLT AMPERES
VD	VOLTAGE DROP
VL	VERIFY LOCATION
WP	WEATHERPROOF
XFMR	TRANSFORMER
XX	EXISTING EQUIP. TO BE DEMO'D

Section A-A

SYSTEM NO. W-L-1001
F RATINGS - 1, 2, 3 AND 4 HR (SEE ITEMS 2 AND 3)
T RATINGS - 0, 1, 2, 3, AND 4 HR (SEE ITEM 3)
L RATING AT AMBIENT - LESS THAN 1 CFM/SQ FT
L RATING AT 400 F - LESS THAN 1 CFM/SQ FT

1. WALL ASSEMBLY- THE 1, 2, 3 OR 4 HR FIRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTURCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U300 AND U400 SERIES WALL OR PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
   A. STUDS - WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS (MAX 2 HR FIRE RATED ASSEMBLIES) OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. LUMBER SPACED 16 IN. OC. WITH NOM 2 BY 4 IN. LUMBER END PLATES AND CROSS BRACES. STEEL STUDS TO BE MIN 3-5/8 IN. WIDE BY 1-3/8 IN. DEEP CHANNELS SPACED MAX 24 IN. OC.
   B. WALLBOARD, GYPSUM * - NOM 1/2 OR 5/8 IN. THICK, 4 FT. WIDE WITH SQUARE OR TAPERED EDGES. THE GYPSUM WALLBOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY. MAX DIAMETER OF OPENING IS 13-1/2 IN.
2. PIPE OR CONDUIT - NOM 12 IN. DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE, NOM 12 IN DIAM (OR SMALLER) SERVICE WEIGHT (OR HEAVIER) CAST IRON SOIL PIPE, NOM 12 IN. DIAM (OR SMALLER) CLASS 50 (OR HEAVIER) DUCTILE IRON PRESSURE PIPE, NOM 6 IN. DIAM (OR SMALLER) STEEL CONDUIT, NOM 4 IN. DIAM (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING, NOM 6 IN. DIAM (OR SMALLER) TYPE L OR (OR HEAVIER) COPPER TUBING OR NOM 1 IN. DIAM (OR SMALLER) FLEXIBLE STEEL CONDUIT. WHEN COPPER PIPE IS USED, MAX F RATING OF FIRESTOP SYSTEM (ITEM 3) IS 2 HR. STEEL PIPES OR CONDUITS LARGER THAN NOM 4 IN. DIAM MAY ONLY BE USED IN WALLS CONSTRUCTED USING STEEL CHANNEL STUDS. A MAX OF ONE PIPE OR CONDUIT IS PERMITTED IN THE FIRESTOP SYSTEM. PIPE OR CONDUIT TO BE INSTALLED NEAR CENTER OF STUD CAVITY WIDTH AND TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY.
3. FILL, VOID OR CAVITY MATERIAL* - CAULK FILL MATERIAL INSTALLED TO COMPLETELY FILL ANNULAR SPACE BETWEEN PIPE OR CONDUIT AND GYPSUM WALLBOARD AND WITH A MIN 1/4 IN. DIAM BEAD OF CAULK APPLIED TO PERIMETER OF PIPE OR CONDUIT AT TIS EGRESS FROM THE WALL. CAULK INSTALLED SYMMETRICALLY ON BOTH SIDES OF WALL ASSEMBLY. THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS SHOWN IN THE FOLLOWING TABLE. THE HOURLY T RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE TYPE OR SIZE OF THE PIPE OR CONDUIT AND THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS TABULATED BELOW:

MAX PIPE OR CONDUIT DIAM, IN	ANNULAR SPACE, IN	F RATING HR	T RATING HR
1	0 TO 3/16	1 OR 2	0+, 1 OR 2
1	1/4 TO 1/2	3 OR 4	3 OR 4
4	0 TO 1/4	1 OR 2	0
4	0 TO 1-1/2#	1 OR 2	0
6	1/4 TO 1/2	3 OR 4	0
12	3/16 TO 3/8	1 OR 2	0

+WHEN COPPER PIPE IS USED, T RATING IS 0 HR.
#0 TO 1-1/2 IN. ANNULAR SPACE APPLIES ONLY WHEN TYPE CP-25 WB+ CAULK IS USED AND ONLY WHEN THE MIN THICKNESS OF THE GYPSUM WALLBOARD IS 5/8 IN. FOR 1 HR RATED WALLS AND 1-1/4 IN. FOR 2 HR RATED WALLS.

MINNESOTA MINING & MFG. CO. - CP 25WB+

* BEARING THE UL CLASSIFICATION MARKING

FIRE RATED PENETRATION DETAIL (TYP.) 02

BRANCH CIRCUIT SYMBOLS

CONCEALED CONDUIT OR BRANCH CIRCUIT UNLESS OTHERWISE NOTED. 1/2" CONDUIT MINIMUM, (2) #12 AWG CONDUCTORS MINIMUM

CONDUIT OR BRANCH CIRCUIT CONCEALED BELOW GRADE, 3/4" CONDUIT MINIMUM WITH (2) 12 AWG CONDUCTORS MINIMUM AND A CODE SIZED EQUIPMENT GROUND.

CONDUIT STUB OUT, CAP, MARK AND RECORD ON AS-BUILT DRAWINGS

CONDUIT CONTINUATION.

FLEXIBLE CONNECTION AS REQUIRED. NUMBER OF CONDUCTORS AS REQUIRED. VERIFY CONNECTION REQUIREMENTS WITH MANUFACTURER PRIOR TO ROUGH-IN.

ANNOTATIONS

EF / 2 — MECHANICAL EQUIPMENT CALLOUT, "AC" INDICATES UNIT TYPE AND "2" INDICATES UNIT NUMBER. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION AND ELECTRICAL REQUIREMENTS.

3 / E-1 — DETAIL CALLOUT, "3" INDICATES DETAIL NUMBER "E-1" INDICATES SHEET NUMBER.

XXX-X — LIGHTING FIXTURE DESIGNATION

X — PLAN NOTE REFERENCE, REFER TO NOTES ON SHEET, OR AS DIRECTED.

△1 — REVISION REFERENCE.

POWER SYMBOLS

DUPLEX RECEPTACLE, MOUNTING HEIGHT PER ADA DEVICE MOUNTING REQUIREMENTS OR AS NOTED. WP INDICATES WEATHERPROOF, REFER TO THE GENERAL PRODUCT SPECIFICATIONS.

DOUBLE DUPLEX RECEPTACLE, MOUNTING HEIGHT PER ACCESSIBLE DEVICE MOUNTING REQUIREMENTS OR AS NOTED.

DUPLEX, GFCI RECEPTACLE, MOUNTING HEIGHT PER ACCESSIBLE DEVICE MOUNTING REQUIREMENTS OR AS NOTED. WP INDICATES WEATHERPROOF, REFER TO THE GENERAL PRODUCT SPECIFICATIONS.

DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER, MOUNTING HEIGHT PER ACCESSIBLE DEVICE MOUNTING REQUIREMENTS - UON OR REQUIRED.

TV — DUPLEX RECEPTACLE MOUNTED IN CHIEF #525F BACK BOX RECESSED IN THE WALL, MOUNTING HEIGHT PER ADA DEVICE MOUNTING REQUIREMENTS - UON OR REQUIRED.

DUPLEX, GFCI RECEPTACLE MOUNTED ABOVE COUNTER, MOUNTING HEIGHT PER ACCESSIBLE DEVICE MOUNTING REQUIREMENTS - UON OR REQUIRED. WP INDICATES WEATHERPROOF, REFER TO THE GENERAL PRODUCT SPECIFICATIONS.

F — FUSED DISCONNECT SWITCH, HP RATED, OR COMBINATION MOTOR STARTER/DISCONNECT SWITCH WITH FUSES PER EQUIPMENT MANUFACTURER AND WEATHERPROOF AS REQUIRED. PROVIDE FINAL CONNECTION TO UNIT EQUIPMENT. SEE MOTORIZED EQUIPMENT SCHEDULE FOR DISCONNECT AND STARTER SIZES.

J — WALL MOUNTED JUNCTION BOX. MOUNTING HEIGHT AS NOTED. 4S/DP MINIMUM OR AS REQUIRED BY N.E.C..

J — JUNCTION BOX, MOUNTED IN ACCESSIBLE CEILING FOR APPLICATION DENOTED ON PLAN. 4S/DP MINIMUM OR AS REQUIRED BY N.E.C..

SURFACE MOUNTED ELECTRICAL PANELBOARD OR LOAD CENTER. REFER TO PANEL SCHEDULE.

GFI 150AF 150AT 3P — CIRCUIT BREAKER, LINE 1 REPRESENTS FRAME SIZE/RATING; LINE 2 REPRESENTS TRIP SIZE/RATING; LINE 3 REPRESENTS NUMBER OF POLES AND LINE 4 REPRESENTS MISCELLANEOUS BREAKER INFO. (SEE BELOW):
SHUNT = PROVIDE SHUNT TRIP MECHANISM.
GFI = GROUND FAULT PROTECTION △3

ST 150AF 150AT 3P — CIRCUIT BREAKER, LINE 1 REPRESENTS FRAME SIZE/RATING; LINE 2 REPRESENTS TRIP SIZE/RATING; LINE 3 REPRESENTS NUMBER OF POLES AND LINE 4 REPRESENTS MISCELLANEOUS BREAKER INFO. (SEE BELOW):
ST = PROVIDE SHUNT TRIP MECHANISM.

SKRU — SOLENOID KEY RELEASE UNIT TO BE PROVIDE AND INSTALLED AS PART OF KIRK KEY INTERLOCK SYSTEM.

GROUND CONNECTION, SIZE AS INDICATED OR AS REQUIRED.

^{3}$_{ab} — SINGLE POLE SWITCHES, MOUNTING HEIGHT PER ACCESSIBLE DEVICE MOUNTING REQUIREMENTS. SUBSCRIPTS AT SYMBOL INDICATE THE FOLLOWING:
M - MOTOR STARTING
NOTE: ALL WALL SWITCHES CONTROLLING EMERGENCY CIRCUITS SHALL BE ENGRAVED WITH "EMERGENCY"

TELEPHONE/DATA SYMBOLS

COMBINATION TELEPHONE AND DATA OUTLET BOX WALL MOUNTED AT +15" A.F.F. (MIN. AS MEASURED TO THE BOTTOM OF THE B0X) - UON OR REQUIRED. STUB TWO (2) 1-1/4"C.O. WITH PULL STRINGS UP 6" ABOVE THE ACCESSIBLE CEILING AND PROVIDE A BUSHING. 4S/DP MINIMUM WITH SINGLE GANG RING.

COMBINATION TELE AND DATA OUTLET BOX,WALL MOUNTED AT 44" MAX AFF TO HIGHEST OPERABLE PART OF DEVICE - UON OR REQUIRED. STUB TWO (2) 1-1/4"C.O. WITH PULL STRING UP 6" ABOVE THE ACCESSIBLE CEILING AND PROVIDE A BUSHING. 4S/DP MINIMUM WITH SINGLE GANG RING.

TV — COMBINATION TELE/DATA OUTLET AND AV DEVICE MOUNTED WITHIN CHIEF #525F RECESSED WALL BOX. STUB TWO (2) 1-1/4"C.O. WITH PULL STRING UP 6" ABOVE THE ACCESSIBLE CEILING AND PROVIDE A BUSHING. 4S/DP MINIMUM WITH SINGLE GANG RING.

ADA DEVICE MOUNTING DETAIL 01

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JOSEPH MICHEL SFEIR
No. C 28543
REN. 1-31-23

ADAM SLOAN
No. E 18589
12.31.2022

△1	△1	OSHPD COMMENTS	8/3/2020
△2	△2	DESIGN CHANGES	8/10/2020
△3	△3	OSHPD COMMENTS	10/2/2020
△4	△4	OSHPD COMMENTS	11/24/2020
△5	△5	DESIGN CHANGES	11/24/2020
△6	△6	ACD 0001 DESIGN CHANGES	4/14/2021
△7	△7	ACD 0001 DESIGN CHANGES	5/8/2021

REV: DESCRIPTION: DATE:

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OSHPD APPROVAL STAMP:
OSHPD #: S200813-37-00-ACD0001

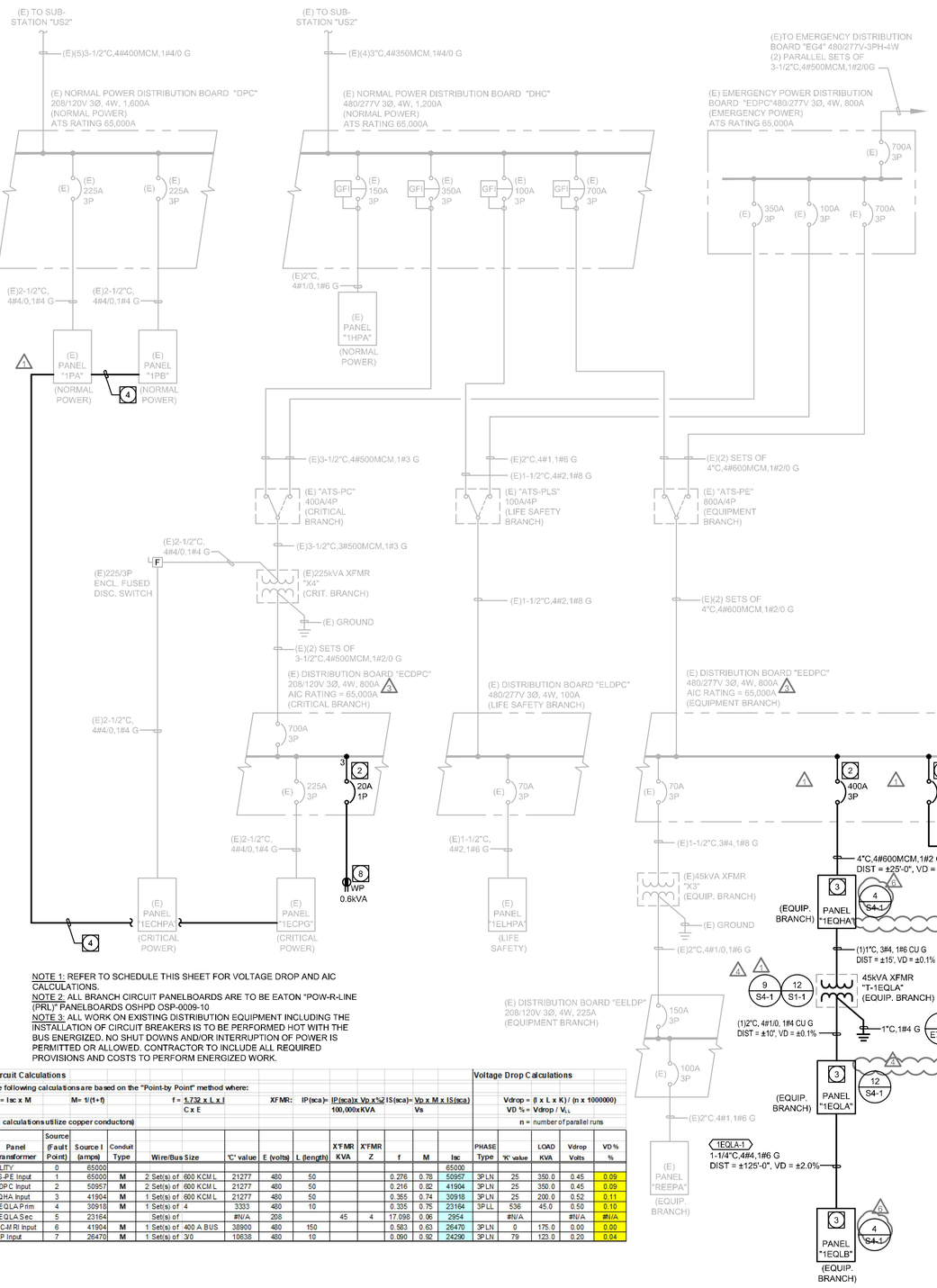
SHEET TITLE:
ELECTRICAL COVER SHEET

PROJECT TITLE:
TCMC MRI

PROJECT #: 01907.01/AGD 20-0001
SHEET NUMBER: E0-00
DRAWN BY: STAFF
CHECKED BY: ARS
SCALE: PER TITLE
DATE: 03/11/2020

06.17.2021_AGD ACD0001 w/ Del 6 & 7 Clouds

100% - CONSTRUCTION DOCS



NOTE 1: REFER TO SCHEDULE THIS SHEET FOR VOLTAGE DROP AND AIC CALCULATIONS.
NOTE 2: ALL BRANCH CIRCUIT PANELBOARDS ARE TO BE EATON "POW-R-LINE (PRL)" PANELBOARDS OSHPD OSP-0009-10
NOTE 3: ALL WORK ON EXISTING DISTRIBUTION EQUIPMENT INCLUDING THE INSTALLATION OF CIRCUIT BREAKERS IS TO BE PERFORMED HOT WITH THE BUS ENERGIZED. NO SHUT DOWNS AND/OR INTERRUPTION OF POWER IS PERMITTED OR ALLOWED. CONTRACTOR TO INCLUDE ALL REQUIRED PROVISIONS AND COSTS TO PERFORM ENERGIZED WORK.

Short-Circuit Calculations — **Voltage Drop Calculations**

The following calculations are based on the "Point-by Point" method where:

Isc = Isc x M M= 1/(1+f) f = 1.732 x L x I / C x E XFMR: IP(sca)= IP(sca)x Vp x%Z IS(sca)= Vp x M x IS(sca) / 100,000xKVA / Vs

Vdrop = (I x L x K) / (n x 1000000) VD % = Vdrop / V_{LL} n = number of parallel runs

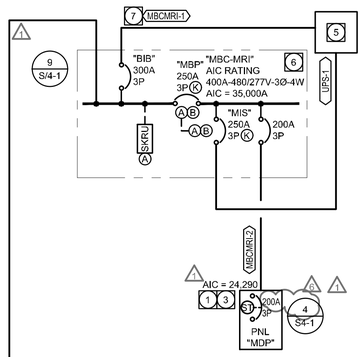
(All calculations utilize copper conductors)

Fault Point	Panel	Transformer	Source (Fault Point)	Source I (amps)	Conduit	Wire/Bus Size	"C" value	E (volts)	L (length)	XFMR KVA	XFMR Z	f	M	Isc	PHASE	"K" value	LOAD KVA	Vdrop Volts	VD %
1	UTILITY		0	65000										65000					
2	ATS-PE Input		1	65000	M	2 Set(s) of 600 KCM L	21277	480	50			0.276	0.78	50957	3PLN	25	350.0	0.45	0.09
3	EEDPC Input		2	50957	M	2 Set(s) of 600 KCM L	21277	480	50			0.216	0.82	41904	3PLN	25	350.0	0.45	0.09
4	1EQHA Input		3	41904	M	1 Set(s) of 600 KCM L	21277	480	50			0.355	0.74	30918	3PLN	25	200.0	0.52	0.11
5	T-1EQLA Prim		4	30918	M	1 Set(s) of 4	3333	480	10			0.335	0.75	23164	3PLL	536	45.0	0.50	0.10
6	T-1EQLA Sec		5	23164		Set(s) of	#N/A	208		45	4	17.098	0.06	2954		#N/A		#N/A	#N/A
7	MBCMRI Input		6	41904	M	1 Set(s) of 400 A BUS	38900	480	150			0.583	0.63	26470	3PLN	0	175.0	0.00	0.00
8	MDP Input		7	26470	M	1 Set(s) of 3/0	10638	480	10			0.090	0.92	24290	3PLN	79	123.0	0.20	0.04

NOTE: CONTRACTOR TO REFER TO FINAL VENDOR DRAWINGS AND INSTALLATION GUIDES FOR ALL CONDUIT, INSTALLATION REQUIREMENTS AND RESPONSIBILITIES.

NOTE: ALL CONDUIT HOMERUNS ARE TO INCLUDE A DEDICATED GREEN GROUND CONDUCTOR SIZED PER NEC AND TERMINATED PER MANUFACTURER'S AND APPLICABLE CODE REQUIREMENTS.

NOTE: ALL EQUIPMENT, DEVICES, J-BOXES, ETC. ARE TO BE CLEARLY LABELED WITH THE CIRCUIT AND PANELBOARD INFORMATION FROM WHICH THEY ARE FED UTILIZING FACILITY STANDARD MYCARTA NAMEPLATES.



FEEDER SCHEDULE

FEEDER	CONDUIT AND CONDUCTORS	FEEDER LENGTH
EEDPC-1	(1)3"C EACH WITH 4#400MCM, 1#1 CU G	±150'-0"
MBCMRI-1	(1)3"C, 4#300MCM, 1#4 CU G	±25'-0"
UPS-1	(1)2-1/2"C, 4#4/0, 1#4 CU G	±25'-0"
MBCMRI-2	(1)2"C, 4#3/0, 1#4 CU G	±10'-0"

GENERAL FEEDER SCHEDULE NOTES:

1. ALL FEEDERS SHOWN, UNLESS SPECIFICALLY NOTED OTHERWISE, ARE PRESUMED TO BE ROUTED IN METAL RACEWAYS. PROVIDE AND INSTALL AN EQUIPMENT GROUND PER NEC, OR CEC WHERE ADOPTED, TABLE . 250.122 IN ALL CONDUITS AND WHERE REQUIRED, PROVIDE A MAIN BONDING JUMPER PER TABLE 250.66 AND INCREASE THE CONDUIT SIZE ACCORDINGLY.
2. DISTANCE SHOWN IS FOR DESIGN PURPOSES ONLY. IT IS NOT A MATERIAL TAKEOFF.
3. VOLTAGE DROP VALUE INDICATED IS AT THE END OF THE FEEDER.
4. AVAILABLE FAULT CURRENT VALUE AT THE END OF THE FEEDER INDICATED. CALCULATIONS ARE BASED UPON INITIAL VALUES RECEIVED FROM THE SERVING UTILITY AND THE LENGTH AND IMPEDANCE OF THE FEEDER.

KEYNOTES

1. GE SUPPLIED CONTRACTOR INSTALLED MAIN DISCONNECT PANELBOARD "MDP". PANEL EQUIPPED WITH SHUNT TRIP CAPABILITY WITH SHUNT TRIP INTERCONNECTED TO "EPO SYSTEM" PER GE REQUIREMENTS. COORDINATE EPO FUNCTION AND REQUIREMENTS WITH MANUFACTURER'S DESIGN DOCUMENTS AND SPECIFICATIONS PRIOR TO ROUGH-IN OF ELECTRICAL. COORDINATE REQUIREMENTS WITH FIELD CONDITIONS, EQUIPMENT VENDOR AND MANUFACTURER'S INSTALLATION GUIDE.
2. 100% RATED CIRCUIT BREAKER INSTALLED WITH THIS SCOPE OF WORK TO MATCH EXISTING BREAKER MANUFACTURER/TYPE/AIC RATING/CHARACTERISTICS/ETC. COORDINATE TYPE AND REQUIREMENTS WITH FIELD CONDITIONS PRIOR TO COMMENCEMENT OF WORK.
3. PANEL/EQUIPMENT TO BE EQUIPPED WITH TRANSIENT VOLTAGE SURGE SUPPRESSION (TVSS) DEVICES. CATEGORY/TYPE/RATING ARE TO BE AS RECOMMENDED BY IEEE. PROVIDE AND INSTALL BREAKER, FEEDER AND GROUNDING AS REQUIRED/RECOMMENDED BY TVSS MANUFACTURER.
4. PROVIDE AND INSTALL 1"C. WITH #6 CU GROUND WIRE TO GROUND THE BUS BARS OF PANELBOARDS TOGETHER PER CEC 517.14. COORDINATE ROUTING AND REQUIREMENTS WITH FIELD CONDITIONS.
5. PROVIDE AND INSTALL 150.0kVA GE #E4502FD (OSP-0517-10) DIGITAL ENERGY SG SERIES 3Ø UPS WITH 5TH HARMONIC FILTER AND REMOTE STATUS PANEL. IN ADDITION TO UPS CONTRACTOR TO ALSO PROVIDE AND INSTALL C&C POWER #BC39 BATTERY CABINET (OSP-0088-10) WITH THIRTY-TWO (32) 620W BATTERIES. ELECTRICAL CONNECTIONS TO EQUIPMENT ARE BY ELECTRICAL CONTRACTOR. COORDINATE CONNECTION REQUIREMENTS WITH VENDOR PRIOR TO COMMENCEMENT OF WORK.
6. PROVIDE AND INSTALL EATON "PRL C" 400A-480/277V-3PH-4W SWITCHBOARD (OSPHD OSP-0010-10) TYPE MAINTENANCE BYPASS CABINET WITH REQUIRED SOLENOID KEY RELEASE UNIT (SKRU) AND KEY INTERLOCKS - BREAKERS WITH A "K" ARE TO BE KEY INTERLOCKED. DEVICE TO BE LABELED AS "MAINTENANCE BYPASS CABINET "MBC-MRI"". EQUIPMENT INSTALLATION AND ALL ELECTRICAL CONNECTIONS TO EQUIPMENT ARE BY ELECTRICAL CONTRACTOR. COORDINATE CONNECTION REQUIREMENTS WITH VENDOR PRIOR TO COMMENCEMENT OF WORK.
7. IN ADDITION TO FEEDER, PROVIDE AND INSTALL ONE (1) 1"C WITH CONTROL WIRING FROM MAINTENANCE BYPASS CABINET TO UPS. WIRING AND INFRASTRUCTURE TO BE INSTALLED PER GE REQUIREMENTS. COORDINATE ROUTING AND REQUIREMENTS WITH FIELD CONDITIONS AND VENDOR INSTALLATION DIAGRAMS.
8. WEATHERPROOF NEMA 3R ROOF MOUNTED MAINTENANCE RECEPTACLES. QUANTITIES AS IDENTIFIED ON THE ELECTRICAL DRAWINGS. COORDINATE INSTALLATION WITH FIELD CONDITIONS.

NAME	KVA	WINDING MATERIAL	INPUT V	INPUT P	INPUT W	OUTPUT V	OUTPUT P	OUTPUT W	MIN %Z	A.I.C. VALUE	K VAL.	REDUCED SOUND LEVEL	NEMA/ MNTG.	REMARKS
T-1EQLA	45	COPPER	480	3	3	120/208	3	4	5.0	2,487	-	N/A	-	EATON DT-3 XFRM OSP#0008-10

TRANSFORMER INSTALLATION REQUIREMENTS:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FURNISHING OF ALL MATERIAL, LABOR, EQUIPMENT, AND SERVICES, IN CONNECTION WITH THE INSTALLATION OF A COMPLETE AND FULLY FUNCTIONING AND CODE COMPLIANT INSTALLATION.
2. IT IS THE INTENT OF THE CONTRACT DOCUMENTS, WHICH ARE PRESENTED IN A DIAGRAMMATIC FORMAT, TO PROVIDE CONTRACTOR INFORMATION THAT SUPPLEMENTS AND ENHANCES THE GENERALLY ACCEPTED CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES EMPLOYED IN CONNECTION WITH INSTALLATION OF THIS TYPE OF PRODUCT / SYSTEM.
3. THE CONTRACTOR SHALL ALSO INCORPORATE THE REQUIREMENTS OF THE MANUFACTURER'S INSTALLATION INSTRUCTIONS / WARRANTY REQUIREMENTS AS PART OF THE REQUIREMENTS OF THE CONSTRUCTION DOCUMENTS. IN THE EVENT OF A CONFLICT BETWEEN THE CONTRACT DOCUMENT REQUIREMENTS AND THE MANUFACTURERS INSTALLATION REQUIREMENTS, THE MORE STRINGENT REQUIREMENTS SHALL APPLY - UNLESS THE MORE STRINGENT REQUIREMENT VOIDS APPLICABLE WARRANTIES OR VIOLATES THE REQUIREMENTS OF THE LOCAL AUTHORITY HAVING JURISDICTION. ANY SUCH CONFLICT SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER IN WRITING THROUGH THE FORMAL RFI PROCESS.
4. REFER TO THE ASSOCIATED SCHEDULES, SCHEMATICS, DRAWINGS, AND SPECIFICATIONS FOR DETAILED INFORMATION / REQUIREMENTS ON THIS PRODUCT / SYSTEM.

LOAD CALCULATIONS

LOAD CALCULATIONS:

1.0 (E) DISTRIBUTION BOARD "EEDPC":

1. EXISTING LOAD PER 30-DAY LOAD TEST @ 125% (READS WERE TAKEN FROM 01.01.2020 TO 02.03.2020)	=	230.8	kVA
2. PANELBOARD "1EQHA" CONNECTED LOAD	=	115.8	kVA
3. MAINT. BYPASS "MBC-MRI" LOAD	=	123.0	kVA
TOTAL 1.0	=	408.1	kVA
AMPS @ 480/277V-3Ø-4W	=	491.1	A

EXISTING 800A-3Ø-4W EMERGENCY EQUIPMENT POWER PANELBOARD HAS SUFFICIENT CAPACITY TO ACCOMMODATE THE EXISTING AND ELECTRICAL LOAD ADDED WITH THIS SCOPE OF WORK.

2.0 (E) DISTRIBUTION BOARD "ELDPC" LOAD CALCULATION:

1. EXISTING LOAD PER 30-DAY LOAD TEST @ 125% (READS WERE TAKEN FROM 01.01.2020 TO 02.03.2020)	=	10.4	kVA
2. ADDED LOAD	=	2.4	kVA
TOTAL 2.0	=	12.8	kVA
AMPS @ 480/277V-3Ø-4W	=	15.5	A

EXISTING 100A-3Ø-4W EMERGENCY LIFE SAFETY POWER DISTRIBUTION BOARD HAS SUFFICIENT CAPACITY TO ACCOMMODATE THE EXISTING AND ELECTRICAL LOAD ADDED WITH THIS SCOPE OF WORK.

3.0 (E) DISTRIBUTION BOARD "ECDPC" LOAD CALCULATION:

1. EXISTING LOAD PER 30-DAY LOAD TEST @ 125% (READS WERE TAKEN FROM 01.01.2020 TO 02.03.2020)	=	121.6	kVA
2. ADDED LOAD FOR ROOF MAINT. RECEPTS	=	0.6	kVA
3. ADDED LOAD PANELBOARD "ELCPG"	=	8.5	kVA
TOTAL 3.0	=	130.7	kVA
AMPS @ 208/120V-3Ø-4W	=	363.1	A

EXISTING 700A-3Ø-4W EMERGENCY CRITICAL POWER DISTRIBUTION BOARD HAS SUFFICIENT CAPACITY TO ACCOMMODATE THE EXISTING AND ELECTRICAL LOAD ADDED WITH THIS SCOPE OF WORK.

4.0 (E) PANELBOARD "1ECHPA" LOAD CALCULATION:

1. EXISTING LOAD PER 30-DAY LOAD TEST @ 125% (READS WERE TAKEN FROM 01.01.2020 TO 02.03.2020)	=	6.7	kVA
2. ADDED LOAD	=	0.3	kVA
TOTAL 4.0	=	7.0	kVA
AMPS @ 480/277V-3Ø-4W	=	8.5	A

EXISTING 225A-3Ø-4W EMERGENCY CRITICAL POWER DISTRIBUTION BOARD HAS SUFFICIENT CAPACITY TO ACCOMMODATE THE EXISTING AND ELECTRICAL LOAD ADDED WITH THIS SCOPE OF WORK.

5.0 (E) AUTOMATIC TRANSFER SWITCH "ATS-PC" (350A/3P BREAKER UPSTREAM):

1. TOTAL 3.0	=	130.7	kVA
2. TOTAL 4.0	=	7.0	kVA
TOTAL 5.0	=	137.7	kVA
AMPS @ 480/277V-3Ø-4W	=	165.8	A

EXISTING 350A/3P UPSTREAM CIRCUIT BREAKER IN NORMAL AND EMERGENCY DISTRIBUTION BOARDS FOR THE EMERGENCY CRITICAL POWER DISTRIBUTION SYSTEM HAS SUFFICIENT CAPACITY TO ACCOMMODATE THE EXISTING AND ELECTRICAL LOAD ADDED WITH THIS SCOPE OF WORK.

6.0 (E) PANELBOARD "1HPA" LOAD CALCULATION:

1. EXISTING LOAD PER 30-DAY LOAD TEST @ 125% (READS WERE TAKEN FROM 01.01.2020 TO 02.03.2020)	=	7.5	kVA
2. ADDED LOAD	=	1.9	kVA
TOTAL 6.0	=	9.4	kVA
AMPS @ 480/277V-3Ø-4W	=	11.4	A

EXISTING 150A-3Ø-4W NORMAL POWER PANELBOARD HAS SUFFICIENT CAPACITY TO ACCOMMODATE THE EXISTING AND ELECTRICAL LOAD ADDED WITH THIS SCOPE OF WORK.

7.0 (E) DISTRIBUTION BOARD "DHC" LOAD CALCULATION:

1. EXISTING LOAD PER 30-DAY LOAD TEST @ 125% (READS WERE TAKEN FROM 01.01.2020 TO 02.03.2020)	=	378.4	kVA
2. ADDED LOAD "EEDPC"	=	177.3	kVA
3. ADDED LOAD "ELDPC"	=	2.4	kVA
4. ADDED LOAD "ATS-PC"	=	9.4	kVA
5. ADDED LOAD "1HPA"	=	1.9	kVA
TOTAL 7.0	=	569.4	kVA
AMPS @ 480/277V-3Ø-4W	=	685.2	A

EXISTING 1,200A-3Ø-4W MAIN NORMAL POWER DISTRIBUTION BOARD HAS SUFFICIENT CAPACITY TO ACCOMMODATE THE EXISTING AND ELECTRICAL LOAD ADDED WITH THIS SCOPE OF WORK.

8.0 (E) DISTRIBUTION BOARD "EDPC" LOAD CALCULATION:

1. TOTAL LOAD "EEDPC" (TOTAL 1.0)	=	408.1	KVA
2. TOTAL LOAD "ELDPC" (TOTAL 2.0)	=	12.8	KVA
3. TOTAL LOAD "ATS-PC" (TOTAL 5.0)	=	137.7	KVA
TOTAL8.0	=	558.5	KVA
AMPS @ 480/277V-3Ø-4W	=	672.1	A

EXISTING 800A-3Ø-4W MAIN EMERGENCY POWER DISTRIBUTION BOARD HAS SUFFICIENT CAPACITY TO ACCOMMODATE THE EXISTING AND ELECTRICAL LOAD ADDED WITH THIS SCOPE OF WORK.

9.0 (E) PANELBOARD "1PA" LOAD CALCULATION:

1. EXISTING LOAD PER 3-DAY LOAD TEST @ 125% (READS WERE TAKEN FROM 02.27.2020 TO 03.02.2020)	=	9.8	KVA
2. ADDED LOAD	=	3.2	KVA
TOTAL 9.0	=	13.0	KVA
AMPS @ 208/120V-3Ø-4W	=	36.2	A

EXISTING 225A-3Ø-4W NORMAL POWER PANELBOARD HAS SUFFICIENT CAPACITY TO ACCOMMODATE THE EXISTING AND ELECTRICAL LOAD ADDED WITH THIS SCOPE OF WORK.

10.0 (E) PANELBOARD "1PB" LOAD CALCULATION:

1. EXISTING LOAD PER 3-DAY LOAD TEST @ 125% (READS WERE TAKEN FROM 03.02.2020 TO 03.05.2020)	=	8.0	KVA
2. ADDED LOAD	=	6.5	KVA
TOTAL 10.0	=	14.5	KVA
AMPS @ 208/120V-3Ø-4W	=	40.3	A

EXISTING 225A-3Ø-4W NORMAL POWER PANELBOARD HAS SUFFICIENT CAPACITY TO ACCOMMODATE THE EXISTING AND ELECTRICAL LOAD ADDED WITH THIS SCOPE OF WORK.

11.0 (E) DISTRIBUTION BOARD "DPC" LOAD CALCULATION:

1. EXISTING LOAD PER 3-DAY LOAD TEST @ 125% (READS WERE TAKEN FROM 03.07.2020 TO 03.11.2020)	=	32.5	KVA
2. ADDED LOAD PANELS "1PA" AND "1PB" (TOTAL 9.0 AND 10.0)	=	9.7	KVA
TOTAL 11.0	=	42.2	KVA
AMPS @ 208/120V-3Ø-4W	=	117.3	A

EXISTING 1,600A-3Ø-4W NORMAL POWER DISTRIBUTION BOARD HAS SUFFICIENT CAPACITY TO ACCOMMODATE THE EXISTING AND ELECTRICAL LOAD ADDED WITH THIS SCOPE OF WORK.

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LICENSED ARCHITECT — JOSEPH MICHEL SFEIR — No. C 28543 — REN. 1-31-22 — STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER — No. E 18589 — 12.31.2022 — ELECTRICAL — STATE OF CALIFORNIA

REV.		DESCRIPTION:	DATE:
1	1	OSHPD COMMENTS	8/3/2020
2	2	DESIGN CHANGES	8/10/2020
3	3	OSHPD COMMENTS	10/2/2020
4	4	OSHPD COMMENTS	11/24/2020
5	5	DESIGN CHANGES	11/24/2020
6	6	ACD 0001 DESIGN CHANGES	4/14/2021
7	7	ACD 0001 DESIGN CHANGES	5/5/2021

CONSULTANT:
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OSHPD APPROVAL STAMP:
OSHPD #: S200813-37-00-ACD0001

SHEET TITLE:
SINGLE-LINE DIAGRAMS, NOTES & LOAD CALCS

PROJECT TITLE:
TCMC MRI

PROJECT #: 01907.01/AGD 20-0001
DRAWN BY: STAFF
CHECKED BY: ARS
SCALE: PER TITLE
DATE: 03/11/2020

SHEET NUMBER: E0-01

REMODEL SINGLE-LINE DIAGRAM | SCALE NTS | 1

10. ALL LIGHTING FIXTURES TO BE MOUNTED IN A SUSPENDED CEILING ARE TO BE SUPPORTED BY T-BAR CLIPS AND (2)#12 SUPPORT WIRES ATTACHED TO THE BUILDING FRAME. IN ADDITION, LIGHTING FIXTURES ARE TO BE SECURED TO THE CEILING GRID WITH (4) SHEET METAL SCREWS ((1) AT EACH CORNER OF THE FIXTURE) - SCREWS SHALL BE NEITHER VISIBLE NOR IMPEDE THE INSTALLATION OF CEILING TILES.

11. ALL FIXTURES MUST BE SUPPLIED WITH "QUICK DISCONNECT" SAFETY BALLASTS WHICH ARE UL AND CSA CERTIFIED IN ACCORDANCE WITH NEC 410.73(G) AND CEC 30-308(4).

12. ALL FIXTURES ARE TO BE PROVIDED WITH THE REQUIRED UL AND CBM LABELS AND MUST CONFORM TO T-24 STANDARDS AND REQUIREMENTS FOR PERFORMANCE AND EFFICIENCY.

13. ALL FIXTURES, TRIMS, AND LAMPS SHALL BE CLEANED AND FREE FROM DIRT, DUST, LABEL/ADHESIVE, AND FINGER PRINTS.

14. EMERGENCY LIGHTING FIXTURES AND BATTERY PACKS ARE TO BE PROVIDED BASED ON FOLLOWING THE CRITERIA:

    a. FIXTURES SPECIFIED WITH INTEGRAL EMERGENCY BATTERY PACKS ARE TO BE FED USING THE FOLLOWING GUIDELINES:

        1a,1* - FOR EMERGENCY FIXTURES SPECIFIED WITH AN EMERGENCY BATTERY PACK REPRESENTS A FIXTURE WITH A NORMAL BALLAST TO BE CONNECTED TO SWITCH LEG "a" AND AN EMERGENCY BALLAST TO BE CONNECTED TO A CONSTANT HOT LEG "1" (CONSTANT HOT CIRCUITS ARE TO BE TAPPED AHEAD OF ANY TIME-CLOCK/PHOTO-CELL CONTROLLED DEVICES).

        1* - REPRESENTS ONE OF THE FOLLOWING FIXTURE TYPES WHICH ARE TO BE CONNECTED TO A CONSTANT HOT CIRCUIT "1": a) NORMAL FIXTURE DESIGNATED AS A NIGHT LIGHT (NL); b) EXIT SIGN(S); AND/OR c) AN EMERGENCY FIXTURE EQUIPPED WITH AN EMERGENCY BATTERY PACK WHICH ALSO SPECIFIED TO BE A NIGHT LIGHT. (ALL CONSTANT HOT CIRCUITS ARE TO BE TAPPED AHEAD OF ANY TIME-CLOCK/PHOTO-CELL CONTROLLED DEVICES)

    b. EMERGENCY BATTERY PACKS SHALL BE PROVIDED AND INSTALLED AS FOLLOWS:

        LED LAMPS:

        BODINE #BSL23 OR #BSL722 OR EQUAL IF AVAILABLE

        NOTE: ALL LED FIXTURES EQUIPPED WITH EMERGENCY BATTERY PACKS SHALL HAVE THE BATTERY PACKS FACTORY INSTALLED AND TESTED AT THE FIXTURE MANUFACTURER'S FACILITY TO ENSURE UL LISTING OF THE FIXTURE IS MAINTAINED. FIELD INSTALLATION OF LED EMERGENCY BATTERY PACKS IS STRICTLY PROHIBITED. NOTIFY ENGINEER OF RECORD SHOULD SPECIFIED FIXTURE NOT HAVE ADEQUATE SPACE TO ACCOMMODATE THE EMERGENCY BATTERY PACK. CONTRACTOR TO MODIFY BASE BID TO INCLUDE ALL NECESSARY EQUIPMENT FOR A COMPLETE AND OPERATIONAL, ADEQUATELY SIZED MINIATURE INVERTER SYSTEM TO BE MOUNTED IN NEAREST ELECTRICAL ROOM IN THE EVENT THE BATTERY PACK CAN NOT BE INSTALLED IN THE FIXTURE.

        NOTE: ALL BATTERY PACKS ARE TO BE FACTORY INSTALLED IN FIXTURE ASSEMBLIES WHEN APPLICABLE. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR CONTACTING FIXTURE MANUFACTURERS TO VERIFY SPECIFIED (OR APPROVED SUBSTITUTE) FIXTURE HAS ADEQUATE SPACE WITHIN THE FIXTURE TO MOUNT THE EMERGENCY BATTERY PACK. IF IT IS DETERMINED THE BATTERY PACK CANNOT BE MOUNTED IN THE FIXTURE THEN CONTRACTOR SHALL INCLUDE ALL COSTS REQUIRED FOR REMOTE MOUNTING THE EMERGENCY BATTERY PACK ABOVE NEAREST ACCESSIBLE CEILING. ENSURE DISTANCE FROM FIXTURE TO REMOTE BATTERY PACK LOCATION DOES NOT EXCEED THE MANUFACTURER'S RECOMMENDED DISTANCES. COORDINATE ALL ACCESS PANELS WITH ARCHITECT OF \ RECORD PRIOR TO INSTALL.

    c. ALL LIGHTING FIXTURES WITH EMERGENCY BATTERY PACKS ARE TO BE PROVIDED WITH INTEGRAL TEST SWITCHES AND CHARGE LIGHTS UNLESS OTHERWISE NOTED OR REQUIRED BY THE AUTHORITY HAVING JURISDICTION (AHJ). IN THE EVENT INTEGRAL TEST SWITCHES ARE NOT ALLOWED NOTIFY ENGINEER OF RECORD PRIOR TO INSTALLATION OF REMOTE TEST SWITCHES. TEST SWITCHES TO BE INSTALLED IN FIXTURES WITH A MINIMUM OF 18" OF ADDITIONAL WIRING TO ALLOW FOR GENERAL FIXTURE MAINTENANCE.

15. INSTALL ALL EXIT SIGNS IN ACCORDANCE WITH THE LOCAL AHJ AND FIRE AUTHORITY. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL REQUIRED PARTS, PIECES, AND MOUNTING HARDWARE FOR EXIT SIGNS, AS WELL AS, ENSURING THE EXIT SIGNS ARE MOUNTED IN AN APPROVED VISIBLE LOCATION. VERIFY ALL REQUIRED CHEVRONS, MIRRORS, AND FACES AS REFERENCED ON THE ARCHITECTURAL REFLECTED CEILING PLAN. NOTIFY ARCHITECT AND ENGINEER OF RECORD OF ANY DISCREPANCIES BETWEEN ARCHITECTURAL AND ELECTRICAL DRAWINGS PRIOR TO ORDERING OF EQUIPMENT.

16. CONTRACTOR SHALL INSTALL ALL LIGHTING FIXTURES PER LOCAL AND NATIONAL BUILDING, ELECTRICAL AND SEISMIC CODES. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL REQUIRED MOUNTING HARDWARE AND BRACING MATERIALS FOR COMPLETE AND CODE COMPLIANT INSTALLATION. COORDINATE REQUIREMENTS WITH AUTHORITY HAVING JURISDICTION PRIOR TO INSTALLATION.

17. CONTRACTOR SHALL COORDINATE ALL LIGHTING FIXTURE LOCATIONS AND QUANTITIES WITH THE ARCHITECTURAL REFLECTED CEILING PLANS. IN ADDITION, CONTRACTOR SHALL ALSO COORDINATE ANY FIXTURE SPECIFIC DIMENSIONS WITH ARCHITECTURAL RCP. NOTIFY ARCHITECT AND ENGINEER OF RECORD OF ANY DISCREPANCIES PRIOR TO FINALIZING FIXTURE ORDER WITH THE DISTRIBUTOR.

18. CONTRACTOR TO INCLUDE IN BASE BID A MINIMUM OF 2-HOURS FOR A ONE TIME AIMING AND ADJUSTMENT TIME OF ALL MULTI-HEAD AND DIRECTIONAL FIXTURE ASSEMBLIES. AIMING AND ADJUSTMENT TO BE SCHEDULED FOR AT NIGHT AND AFTER HOURS WITH THE ARCHITECT, ENGINEER, AND OWNER PRESENT. CONTRACTOR IS RESPONSIBLE FOR SCHEDULING AN APPROPRIATE TIME PRIOR TO ORDERING THE FINAL PUNCH WALK FOR THE PROJECT.

GENERAL NOTES - LIGHTING FIXTURE/SCHEDULE:

1. ALL LIGHTING FIXTURES SHALL BE LABELED WITH THE APPROPRIATE UL LABEL (DAMP, WET, ETC) AS REQUIRED BY CODES AND LOCAL ORDINANCES.

2. SHOP DRAWING SUBMITTALS SHALL INCLUDE ALL FIXTURES, LAMPS, AND BALLAST INFORMATION. ANY SHOP DRAWINGS WHICH ARE SUBMITTED WITHOUT ANY ONE OF THESE ITEMS WILL BE REJECTED AS INCOMPLETE AND WILL BE REQUIRED TO BE RESUBMITTED WITH THE REQUIRED INFORMATION.

3. ALL LIGHTING FIXTURE SPECIFIC INFORMATION (TYPE, LAMPING, BALLAST, COLOR, MOUNTING, ETC.) HAS BEEN SPECIFIED WITH THE CONSIDERATION OF SPECIFIC PERFORMANCE AND AESTHETIC REQUIREMENTS. ANY SUBSTITUTION OF THE SPECIFIED FIXTURES IS SUBJECT TO THE ARCHITECT AND ENGINEER OF RECORDS FINAL APPROVAL AND ARE SUBJECT TO THE FOLLOWING CRITERIA:

    a. AN OPERABLE SAMPLE WITH THE SPECIFIED LAMP/BALLAST COMBINATION AND A 120V CORD AND PLUG.

    b. SITE LIGHTING FIXTURES - PROVIDE A COMPLETE PHOTOMETRIC REPORT WHICH INCLUDES THE FOLLOWING INFORMATION SITE PLAN WHICH CLEARLY IDENTIFIES FOOT-CANDLE LEVELS. PLAN IS TO INCLUDE ALL INPUT DATA UTILIZED IN THE CALCULATION (LAMP/BALLAST TYPE, LAMP LUMENS, LIGHT LOSS FACTOR, ETC.). IN SITUATIONS WHERE SUBSTITUTIONS AFFECT FIXTURES EQUIPPED WITH EMERGENCY BATTERY PACKS, OR OTHER EMERGENCY SOURCES OF POWER, PROVIDE ADDITIONAL PHOTOMETRIC REPORT(S) WHICH CLEARLY IDENTIFY A MINIMUM 1.0 FOOT-CANDLES ALONG THE PATH(S) OF EGRESS - THIS REPORT SHALL ALSO INCLUDE ALL INPUT DATA UTILIZED IN THE CALCULATIONS (FOR FIXTURES UTILIZING AN EMERGENCY BATTERY PACK INCLUDE THE LUMEN RATING AND QUANTITY OF LAMPS FOR THE EMERGENCY BATTERY PACK). SEE BELOW FOR PHOTOMETRIC PLAN GUIDELINES:

        1) POINT BY POINT SPACING IS NOT EXCEED 10'-0" IN ANY DIRECTION.

        2) PHOTOMETRIC STUDY IS TO BE BASED ON A MAINTAINED FOOT-CANDLE LEVEL USING MEAN LAMP LUMENS AND A LIGHT LOSS FACTOR TO BE DETERMINED BY THE ENGINEER OF RECORD.

        3) ASSOCIATED REPORT TO INCLUDE AN ENERGY COST MODEL WHICH IDENTIFIES ADDITIONAL ENERGY OR ENERGY COSTS FOR A 10-YEAR PERIOD AS COMPARED TO THE SPECIFIED ITEM. ALL ADDITIONAL EXPENSES WILL BE SUBTRACTED FROM THE CONTRACT COST.

    c. INTERIOR LIGHTING FIXTURES - SPECIFIC INTERIOR FIXTURES AS DETERMINED BY THE ENGINEER OF RECORD WILL REQUIRE SUPPLEMENTAL PHOTOMETRIC REPORTS CONFIRMING SUBSTITUTE FIXTURE LIGHT LEVELS EQUAL OR EXCEED DESIGNED LIGHT LEVELS IN SPACES IDENTIFIED. IF THE SUBSTITUTED FIXTURE IS AN EMERGENCY FIXTURE A PHOTOMETRIC REPORT SHALL BE SUBMITTED FOR ALL PATHS OF EGRESS WHICH CLEARLY IDENTIFIES 1.0 MINIMUM FOOT-CANDLES ALONG THE PATH. IN ADDITION, TEST SWITCH MOUNTING (INTEGRAL OR REMOTE) SHALL MATCH THE MOUNTING AS SPECIFIED ON THE DESIGN DOCUMENTS - CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL REQUIRED COVER PLATES, TRIMS, REFLECTORS, ETC NECESSARY FOR THE SPECIFIC TEST SWITCH MOUNTING. ALL REPORTS SHALL INCLUDE INPUT DATA UTILIZED IN THE CALCULATIONS (FOR FIXTURES UTILIZING AN EMERGENCY BATTERY PACK INCLUDE THE LUMEN RATING AND QUANTITY OF LAMPS FOR THE EMERGENCY BATTERY PACK).

    d. MANUFACTURER'S CATALOG CUT SHEET WHICH INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING INFORMATION: 1) LAMP TYPES AND QUANTITIES; 2) BALLAST OPTIONS; 3) VOLTAGES; 4) EPA RATING (WHERE APPLICABLE); 5) FIXTURE DIMENSIONS; 5) EMERGENCY BATTERY PACK AND TEST SWITCH OPTIONS (WHERE APPLICABLE); AND 6) FIXTURE FINISHES.

    e. FOR ALL SITE LIGHTING FIXTURES PROVIDE POLE SPECIFICATIONS WITH SUPPLEMENTAL DOCUMENTATION IDENTIFYING POLE SIZE IS RATED ACCORDINGLY BASED ON FIXTURE(S) EPA AND A WIND RATING FOR THE PROJECT ZONE.

    f. A SIGNED COPY OF THE "SUBSTITUTION COMPLIANCE FORM" LOCATED IN THE DIVISION 1 SPECIFICATION WHICH STATES THAT IF THE PROPOSED SUBSTITUTION IS ACCEPTED, THEN THE PROJECT SCHEDULE WILL NOT BE NEGATIVELY AFFECTED. IF THE COMPLETION OF THE PROJECT IS DELAYED DUE TO THE PROPOSED SUBSTITUTION THEN THE ELECTRICAL CONTRACTOR WILL BE RESPONSIBLE FOR ANY AND ALL ESTABLISHED LIQUIDATED DAMAGES.

    g. CONTRACTOR TO PROVIDE ARCHITECT AND ENGINEER OF RECORD WITH ALL SUBSTITUTE INFORMATION REFERENCED ABOVE NO LATER THAN TWO WORKING WEEKS PRIOR TO THE BID DEADLINE.

4. CATALOG NUMBERS AS REFERENCED ON THE FIXTURE SCHEDULE PROVIDE GENERAL FIXTURE INFORMATION. CONTRACTOR SHALL REVIEW LIGHTING PLANS AND SPECIFICATIONS TO VERIFY ALL FIXTURE ASSOCIATED DESIGN INFORMATION. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL NECESSARY PARTS AND PIECES REQUIRED FOR A COMPLETE AND OPERATIONAL INSTALLATION. ANY DISCREPANCIES BETWEEN DESCRIPTIONS, SPECIFICATIONS, AND CATALOG NUMBERS ARE TO BE PRESENTED TO THE ENGINEER OF RECORD PRIOR TO COMPLETION OF THE BID PROCESS FOR CLARIFICATION.

5. ALL COLOR SPECIFIC INFORMATION WHICH RELATES TO LIGHTING FIXTURES AND/OR THEIR RELATED PARTS ARE TO BE REVIEWED AND COMMENTED ON BY THE ARCHITECT. FIXTURES WHICH REQUIRE A CUSTOM COLOR WILL HAVE A CUSTOM COLOR PAINT WHICH WILL BE INCLUDED IN THE ARCHITECT'S SHOP DRAWING REVIEW COMMENTS.

6. ALL LIGHTING EQUIPMENT LOCATIONS ARE TO BE COORDINATED WITH THE ARCHITECTURAL REFLECTED CEILING PLAN PRIOR TO ORDERING AND INSTALLING.

7. ALL FIXTURES MOUNTED IN FIRE RATED CEILINGS ARE TO BE PROVIDED AND INSTALLED WITH AN APPROVED FIRE RATED ENCLOSURE.

8. ENSURE COMPATIBILITY OF ALL DIMMING SYSTEM AND INDIVIDUAL LIGHTING CONTROLS WITH LAMPS AND FIXTURES. ALL COMPONENTS ARE TO BE FACTORY CERTIFIED COMPATIBLE FOR A FULL RANGE OF DIMMING.

9. LIGHTING FIXTURE CLEARANCES FROM COMBUSTIBLE MATERIALS ARE TO BE A MINIMUM OF 1/2" (OTHER THAN AT POINTS OF SUPPORT) AND 3" FROM INSULATION FOR NON-IC RATED RECESSED LIGHTING FIXTURES.

INTERIOR LIGHTING FIXTURE SCHEDULE

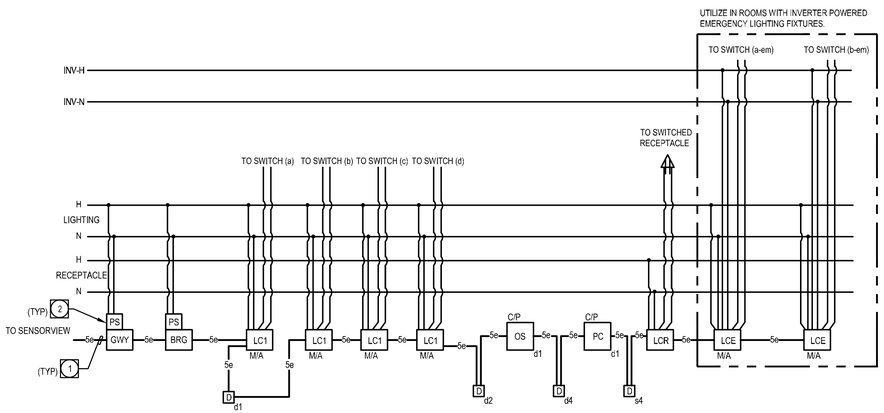
TYPE	MANUFACTURER & CATALOG #	LAMP	FIXT. WATTAGE	FIXT. FINISH	VOLTS	ADDITIONAL INFORMATION
LR1	KENALL #MRIDL6-FF-PAFW-31L-40K9-M-CSS-T WITH #RIMR16-24V-DIM1	LED	31W	BY ARCHITECT	MVOLT	6" RECESSED 24V LED DOWNLIGHT SUITABLE FOR USE WITHIN AN MRI SUITE. FIXTURE TO BE EQUIPPED WITH 1% 0-10V DIMMING. CONTRACTOR TO PROVIDE ONE (1) KENALL "MRIPSF-480" (QUANTITY AS PER PLANS). FIXTURES TO BE WIRED WITHIN MRI SUITE USING 24V WIRING SUITABLE FOR INSTALLATION IN AN MRI SUITE.
LR2	KENALL #MRIDL6-FF-PAFW-31L-40K9-WW-CSS-T WITH #RIMR16-24V-DIM1	LED	31W	BY ARCHITECT	MVOLT	6" RECESSED 24V LED WALL WASH DOWNLIGHT SUITABLE FOR USE WITHIN AN MRI SUITE. FIXTURE TO BE EQUIPPED WITH 1% 0-10V DIMMING. CONTRACTOR TO PROVIDE ONE (1) KENALL "MRIPSF-480" (QUANTITY AS PER PLANS). FIXTURES TO BE WIRED WITHIN MRI SUITE USING 24V WIRING SUITABLE FOR INSTALLATION IN AN MRI SUITE.
LR3	LITHONIA #2ALL2 40L MVOLT EZ1 LP840	LED	35W	BY ARCHITECT	MVOLT	RECSSED 2'X2' LED FIXTURE SUITABLE FOR INSTALLATION WITHIN A T-BAR GRID CEILING - CONTRACTOR TO COORDINATE CEILING T-BAR TYPE WITH ARCHITECTURAL DRAWINGS. FIXTURE TO BE EQUIPPED WITH 1% 0-10V DIMMING.
LR4	LITHONIA #LDN6 40/30 L06 AR LD MVOLT EZ1 TRW	LED	35W	BY ARCHITECT	MVOLT	RECESSED 6" LED DOWNLIGHT. FIXTURE TO BE SUITABLE FOR INSTALLATION IN T-BAR CEILINGS AND AND HARD LID SOFFITS. FIXTURE TO BE EQUIPPED WITH 1% 0-10V DIMMING.
LR5	LITHONIA #LDN6 40/30 LW6 AR LD MVOLT EZ1 TRW	LED	35W	BY ARCHITECT	MVOLT	RECESSED 6" LED WALL WASH DOWNLIGHT. FIXTURE TO BE SUITABLE FOR INSTALLATION IN T-BAR CEILINGS AND AND HARD LID SOFFITS. FIXTURE TO BE EQUIPPED WITH 1% 0-10V DIMMING.
LR6	LITHONIA #3G-4RPE-L500-S80-40K-UNV-D01-GCX-RG2-EF- (RUN LENGTHS TO BE VERIFIED WITH ARCHITECTURAL PLANS PRIOR TO SUBMISSION OF SHOP DRAWINGS)	LED	3.9W / LF	BY ARCHITECT	MVOLT	RECESSED PERIMETER LIGHTING SYSTEM. FIXTURE TO BE SUITABLE FOR INSTALLATION IN T-BAR CEILINGS AND AND HARD LID SOFFITS. FIXTURE TO BE EQUIPPED WITH 1% 0-10V DIMMING. COORDINATE RUN LENGTHS, CEILING TYPES, ETC. WITH ARCHITECTURAL DRAWINGS.
LS1	LITHONIA #FMLWL48 8 40 ZT MVOLT	LED	42W	BY ARCHITECT	MVOLT	SURFACE WALL MOUNTED LED WRAP AROUND TO BE INSTALLED ON THE CEILING WITHIN THE EQUIPMENT ROOM COORDINATE MOUNTING LOCATIONS AND REQUIREMENTS WITH OVERHEAD CONDUITS, CABLE TRAY, ETC.
EX1	SIGNTEX #CRR BB - 1 - R - C - BA - *(VERIFY W/ PLANS) - T - DG	LED	-W	BY ARCHITECT	MVOLT	LED EXIT SIGN. VERIFY ARROWS/NUMBER OF FACES/ETC. WITH PLANS. FIXTURE IS TO BE EQUIPPED WITH BATTERY BACKUP AND SUITABLE FOR USE WITH EMERGENCY GENERATOR POWERED BRANCH CIRCUIT.
EX2	LITHONIA #LE P 1 R ELN SW11	LED	-W	BY ARCHITECT	MVOLT	MRI IN-USE LIGHT. VERIFY ARROWS/NUMBER OF FACES/ETC. WITH PLANS. FIXTURE IS TO BE EQUIPPED WITH BATTERY.

NOTE: ALL FIXTURES AND LIGHTING CONTROLS SHALL BE PROVIDED AS SPECIFIED. NO FIXTURE/CONTROL SUBSTITUTIONS WILL BE CONSIDERED OR ACCEPTED UNLESS SPECIFICALLY REFERENCED AS AN EQUAL ON THE SCHEDULE OR HEREIN. IN SITUATIONS WHERE THE OWNER CHOOSES TO CONSIDER "VALUE ENGINEERING ALTERNATIVES" WHICH DEVIATE FROM ANY OF THE SPECIFIED/REFERENCED FIXTURES/EQUIPMENT - ALL FIXTURE SUBSTITUTIONS MUST BE SUBMITTED PER NOTE 3 OF THE "GENERAL NOTES - LIGHTING FIXTURE SCHEDULE". IN ADDITION TO MEETING THESE REQUIREMENTS CONTRACTOR IS RESPONSIBLE FOR PROVIDING LINE ITEM PRICING COMPARISONS BETWEEN THE SPECIFIED FIXTURE AND THE PROPOSED ALTERNATE FIXTURE TO THE ENGINEER OF RECORD/OWNER/ARCHITECT - PRICING SHALL BE REPRESENTATIVE OF THE FINAL COST PER UNIT TO THE OWNER AND INCLUSIVE OF ALL CONTRACTOR/DISTRIBUTOR MARK-UPS AND SHIPPING COSTS. ALL FIXTURES WHICH ARE NOT SUBMITTED PER THESE REQUIREMENTS WILL BE REJECTED AS INCOMPLETE.

NOTE:
"OR EQUAL = IN ORDER FOR A PRODUCT BY ONE OF THE REFERENCED "OR EQUAL" MANUFACTURERS TO BE CONSIDERED AN EQUAL PRODUCT ALL REQUIREMENTS IDENTIFIED IN THE "GENERAL NOTES - LIGHTING FIXTURE/SCHEDULE:" AND PROJECT SPECIFICATIONS MUST BE MET WITHIN TWO-WEEKS PRIOR TO THE BID DEADLINE. ANY PRODUCTS SELECTED WHICH DO NOT MEET THESE REQUIREMENTS WILL BE DETERMINED NOT TO BE AN EQUAL AND THEREFORE NOT A CONSIDERATION FOR THE PROJECT. CONTRACTOR IS RESPONSIBLE FOR PROVIDING A COPY OF THE FIXTURE SCHEDULE AND LIGHTING/FIXTURE SCHEDULE GENERAL NOTES TO ALL REPRESENTATIVE AGENCIES/DISTRIBUTORS."

LIGHTING FIXTURE SCHEDULE

NOT TO SCALE | 1

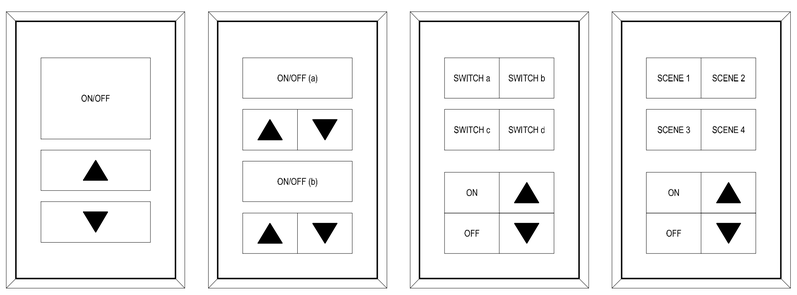


LIGHTING CONTROL SYSTEM KEYNOTES:

1. CLASS II CAT-5e NON-BOOTED NETWORK CABLE CONNECTION WITH RJ45 COUPLINGS
2. POWER SUPPLY PROVIDED WITH EQUIPMENT.
3. LOW VOLTAGE ENTRY KEY PAD - nLIGHT #PODM (COORDINATE DEVICE FINISH WITH ARCHITECT).
4. LOW VOLTAGE SCENE SELECTOR - nLIGHT #PODM-2SB (COORDINATE DEVICE FINISH WITH ARCHITECT)

NOTE: WIRING DIAGRAM IS DIAGRAMMATIC AND IS INTENDED TO DEMONSTRATE GENERIC WIRING TOPOLOGY. REFER TO LIGHTING PLANS AND INDIVIDUAL ROOMS FOR QUANTITY, LOCATION AN D TYPES OF DEVICES REQUIRED FOR EACH SPACE. PROVIDE DIMMER CONTROL CONDUCTORS AS REQUIRED. REFER TO COVER SHEET SYMBOLS LIST FOR DEVICE SPECIFICATIONS U.O.N..

NOTE: ALL EXPOSED LOW VOLTAGE WIRING ROUTED IN THE ACCESSIBLE CEILING IS REQUIRED TO BE PLENUM RATED AND SHIELDED TO MINIMIZE INTERFERENCE FROM MRI EQUIPMENT.



LIGHTING CONTROL SYSTEM REQUIREMENTS:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FURNISHING OF ALL MATERIAL, LABOR, EQUIPMENT, AND SERVICES, IN CONNECTION WITH THE INSTALLATION OF A COMPLETE AND FULLY FUNCTIONING AND CODE COMPLIANT INSTALLATION.
2. IT IS THE INTENT OF THE CONTRACT DOCUMENTS, WHICH ARE PRESENTED IN A DIAGRAMMATIC FORMAT, TO PROVIDE CONTRACTOR INFORMATION THAT SUPPLEMENTS AND ENHANCES THE GENERALLY ACCEPTED CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES EMPLOYED IN CONNECTION WITH INSTALLATION OF THIS TYPE OF PRODUCT / SYSTEM.
3. THE CONTRACTOR SHALL ALSO INCORPORATE THE REQUIREMENTS OF THE MANUFACTURER'S INSTALLATION INSTRUCTIONS / WARRANTY REQUIREMENTS AS PART OF THE REQUIREMENTS OF THE CONSTRUCTION DOCUMENTS. IN THE EVENT OF A CONFLICT BETWEEN THE CONTRACT DOCUMENT REQUIREMENTS AND THE MANUFACTURERS INSTALLATION REQUIREMENTS, THE MORE STRINGENT REQUIREMENTS SHALL APPLY - UNLESS THE MORE STRINGENT REQUIREMENT VOIDS APPLICABLE WARRANTIES OR VIOLATES THE REQUIREMENTS OF THE LOCAL AUTHORITY HAVING JURISDICTION. ANY SUCH CONFLICT SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER IN WRITING THROUGH THE FORMAL RFI PROCESS.
4. REFER TO THE ASSOCIATED SCHEDULES, SCHEMATICS, DRAWINGS, AND SPECIFICATIONS FOR DETAILED INFORMATION / REQUIREMENTS ON THIS PRODUCT / SYSTEM.

LOW VOLTAGE LIGHTING CONTROL WIRING DIAGRAM

NOT TO SCALE | 2

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TCMC MRI

Tri-City Medical Center

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ARCHITECT: SFEIR ARCHITECTS, 5151 SHOREHAM PL SUITE 265, SAN DIEGO, CALIFORNIA 92122, TEL(619)299-3917

STRUCTURAL: MIYAMOTO INTERNATIONAL, INC., 5550 BALTIMORE DRIVE, SUITE 100, LA MESA, CALIFORNIA 91942, TEL(858)457-3001

MECHANICAL &PLUMBING: SC ENGINEERS, INC., 17075 VIA DEL CAMPO, SAN DIEGO, CALIFORNIA 92127, TEL(858)946-0333

ELECTRICAL: AG DESIGN, INC., 171 S. ANITA DR. SUITE 111, ORANGE, CALIFORNIA 92868, TEL(714)769-9900

SHIELDING: MRI SHIELDING CORPORATION, 3554 BUISNESS PARK DR., SUITE B, COSTA MESA, CA 92626, TEL(714)545-7700

INTERIORS: ISLEY DESIGN & PLANNING, 1982 PALSERO AVENUE, ESCONDIDO, CA 92029, TEL(760)484-0455

LICENSED ARCHITECT — JOSEPH MICHAEL SFEIR — No. C 28543 — REN. 1-31-22 — STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER — No. E 18589 — 12.31.2022 — ELECTRICAL — STATE OF CALIFORNIA

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SHEET NUMBER:
E0-02

100% - CONSTRUCTION DOCS

MOUNTING: FLUSH CRITICAL BRANCH PANEL (E)1ECHPA MAIN 225A
480 / 277 VOLTS 3 PHASE 4 WIRE A.I.C. RATING : 35,000 BUS 225A

DESCRIPTION	VOLT AMPS			LTG	REC	MISC	BRK	CIRC	CIRC	BRK	MISC	REC	LTG	VOLT AMPS			DESCRIPTION
	Ø A	Ø B	Ø C											Ø A	Ø B	Ø C	
(E) RMS 1001/04/06/08/10/15-44							20/1	1	2	20/1							(E) SPARE
(E) RMS 1003/05/06/07/12/16-43							20/1	3	4	20/1							(E) SPARE
(E) RMS 1002/06/09/11/13-45							20/1	5	6	20/1							(E) SPARE
(E) PED'S THERAPY RM							20/1	7	8	20/1							(E) SPARE
(E) ANGIO HUMIDIFIER							20/3	9	10	20/1							(E) SPARE
- - - -							-	11	12	20/1							(E) SPARE
- - - -							-	13	14	20/1							(E) SPARE
(E) SPARE							20/1	15	16	20/1							(E) SPARE
(E) ANGIO ELEC. RM. FIRE ALRM PNL							20/2	17	18	20/1							(E) SPARE
- - - -							-	19	20	20/1							(E) SPARE
① **MRI 1 ROOM & EQUIP LTG**		284		8			20/1	21	22	20/1							(E) SPARE
(E) SPARE							20/1	23	24	20/1							(E) SPARE
(E) SPARE							20/1	25	26	20/1							(E) SPARE
(E) SPARE							20/1	27	28	20/1							(E) SPARE
(E) SPARE							20/1	29	30	20/1							(E) SPARE
(E) SPARE							20/1	31	32	20/1							(E) SPARE
(E) SPARE							20/1	33	34	20/1							(E) SPARE
(E) SPARE							20/1	35	36	20/1							(E) SPARE
(E) SPARE							20/1	37	38	20/1							(E) SPARE
(E) SPARE							20/1	39	40	20/1							(E) SPARE
(E) SPARE							20/1	41	42	20/1							(E) SPARE

Ø A = Ø B = 284 VA Ø C = LCL = 284 VA LARGEST MOTOR (LM) = (N/A)
TOTAL (Ø A + Ø B + Ø C) = 284 VA + 25% LCL + 25% LARGEST MOTOR = 355 VA OR 0.4 AMPS
HIGH PHASE = 284 VA + 25% LCL + 25% LARGEST MOTOR = 355 VA OR 1.3 AMPS

①EXISTING SPARE CIRCUIT BREAKER. LOAD ADDED WITH THIS SCOPE OF WORK.

MOUNTING: FLUSH CRITICAL BRANCH PANEL (E)1ECPG MAIN 225A
208 / 120 VOLTS 3 PHASE 4 WIRE A.I.C. RATING : 10,000 BUS 225A

DESCRIPTION	VOLT AMPS			LTG	REC	MISC	BRK	CIRC	CIRC	BRK	MISC	REC	LTG	VOLT AMPS			DESCRIPTION
	Ø A	Ø B	Ø C											Ø A	Ø B	Ø C	
(E) RMS 1002/03/04/05							20/1	1	2	20/1							(E) RMS 1022 REC 1
(E) RMS 1002/04/05							20/1	3	4	20/1							(E) RMS 1022 REC 2
(E) RMS 1002/04/06							20/1	5	6	20/1							(E) RMS 1022 REC 3
(E) RMS 1006/08/10/12/17							20/1	7	8	20/1							(E) X-RAY RM 1 REC 1
(E) RMS 1006/11/13/15/17							20/1	9	10	20/1							(E) X-RAY RM 1 REC 2
(E) RAD READ RM REC							20/1	11	12	20/1							(E) X-RAY RM 1 REC 3
(E) ALT RM 1032N							20/1	13	14	20/1		1		1500			CNTRL RM 14 PYXIS MACH ①
(E) RMS 1010/11/13/15/19							20/1	15	16	20/1		6			1080		TRNSFR RM 5 BED QUADS ①
(E) RMS 1032/37/39/44/45							20/1	17	18	20/1	2					500	MRI SUITE SINKS/AUTO-FLUSH ①
(E) RMS 1022/38/40/41/44							20/1	19	20	20/1		1		500			TRNSFR RM 5 CRASH CART ①
(E) RMS 1022/25/26/29/31							20/1	21	22	20/1		1			1000		MAGNET RUNDOWN UNIT ①
(E) RMS 1024/25/29/35							20/1	23	24	20/1		**1**				**500**	**MRI INJECTOR SYSTEM** ①
(E) RMS 1026/29							20/1	25	26	20/1							(E) SPARE
(E) PEDS THERAPY REC 1							20/1	27	28	20/1							(E) SPARE
(E) PEDS THERAPY REC 2							20/1	29	30	20/1							(E) SPARE
(E) X-RAY RM 1 PLAZER 1							30/2	31	32	20/1							(E) SPARE
- - - -							-	33	34	20/1							(E) SPARE
① MRI EQUIP RM 100 CONV REC			540		3		20/1	35	36	20/1							(E) SPARE
① MRI EQUIP RM 100 HT EXCHNG CAB	1500				1		20/1	37	38	20/1							(E) SPARE
① MRI EXAM 200 CONV REC		720			4		20/1	39	40	20/1							(E) SPARE
① MRI CNTRL 14 COMP QUADS			1080		6		20/1	41	42	20/1							(E) SPARE

Ø A = 3500 VA Ø B = 2800 VA Ø C = 2620 VA LCL = (N/A) LARGEST MOTOR (LM) = (N/A)
TOTAL (Ø A + Ø B + Ø C) = 8920 VA + 25% LCL + 25% LARGEST MOTOR = 8920 VA OR 24.8 AMPS
HIGH PHASE (Ø A) = 3500 VA + 25% LCL + 25% LARGEST MOTOR = 3500 VA OR 29.1 AMPS

①EXISTING SPARE CIRCUIT BREAKER. LOAD ADDED WITH THIS SCOPE OF WORK.

MOUNTING: SURFACE EQUIPMENT BRANCH PANEL 1EQHA MAIN MLO
480 / 277 VOLTS 3 PHASE 4 WIRE A.I.C. RATING : 35,000 BUS 400A

DESCRIPTION	VOLT AMPS			LTG	REC	MISC	BRK	CIRC	CIRC	BRK	MISC	REC	LTG	VOLT AMPS			DESCRIPTION
	Ø A	Ø B	Ø C											Ø A	Ø B	Ø C	
OUTDOOR COND UNIT "CU-1"	**3047**					**1**	**30/3**	1	2	150/3	LM			25207			MRI SCAN RM CHILLER ①
- - - -		**3047**				**-**	**-**	3	4	-	LM				25207		- - - -
- - - -			**3047**			**-**	**-**	5	6	-	LM					25207	- - - -
SPACE								7	8								SPACE
SPACE								9	10								SPACE
SPACE								11	12								SPACE
SPACE								13	14								SPACE
SPACE								15	16								SPACE
SPACE								17	18								SPACE
SPACE								19	20								SPACE
SPACE								21	22								SPACE
SPACE								23	24								SPACE
SPACE								25	26								SPACE
SPACE								27	28								SPACE
SPACE								29	30								SPACE
SPACE								31	32								SPACE
SPACE								33	34								SPACE
SPACE								35	36								SPACE
SPACE								37	38	70/3				4976			SUB-FEED XFMR "T-1EQLA"
SPACE								39	40	-					4827		- - - -
SPACE								41	42	-						4347	- - - -

Ø A = 33230 VA Ø B = 33081 VA Ø C = 32601 VA LCL = (N/A) LARGEST MOTOR (LM) = 75621 VA
TOTAL (Ø A + Ø B + Ø C) = 98912 VA + 25% LCL + 25% LARGEST MOTOR = 117817 VA OR 141.7 AMPS
HIGH PHASE (Ø A) = 33230 VA + 25% LCL + 25% LARGEST MOTOR = 39532 VA OR 142.6 AMPS

①BEAKER TO BE INSTALLED AS A SUB-FEED BREAKER.

MOUNTING: SURFACE (EQUIPMENT BRANCH) PANEL 1EQLA MAIN 150A
208 / 120 VOLTS 3 PHASE ____ WIRE A.I.C. RATING : 10,000 BUS 225A

DESCRIPTION	VOLT AMPS			LTG	REC	MISC	BRK	CIRC	CIRC	BRK	MISC	REC	LTG	VOLT AMPS			DESCRIPTION
	Ø A	Ø B	Ø C											Ø A	Ø B	Ø C	
EXHAUST FAN "EF-2"	**1176**					**LM**	**20/1**	1	2	20/1							SPARE
EXHAUST FAN "EF-3"		**1176**					**20/1**	3	4	20/1							SPARE
EXHAUST FAN "EF-4"			**696**				**15/1**	5	6	20/1							SPARE
SPARE							**20/1**	7	8	20/1							SPARE
SPARE							**20/1**	9	10	20/1							SPARE
SPARE							**20/1**	11	12	20/1							SPARE
SPARE							**20/1**	13	14	20/1							SPARE
SPARE							**20/1**	15	16	20/1							SPARE
SPARE							**20/1**	17	18	20/1							SPARE
SPARE							20/1	19	20	20/1							SPARE
SPARE							20/1	21	22	20/1							SPARE
SPARE							20/1	23	24	20/1							SPARE
SPACE								25	26								SPACE
SPACE								27	28								SPACE
SPACE								29	30								SPACE
SPACE								31	32								SPACE
SPACE								33	34								SPACE
SPACE								35	36								SPACE
SPACE								37	38	60/3				3800			SUB-FEED PANEL "1EQLB"
SPACE								39	40	-					3651		- - - -
SPACE								41	42	-						3651	- - - -

Ø A = 4976 VA Ø B = 4827 VA Ø C = 4347 VA LCL = (N/A) LARGEST MOTOR (LM) = 1176 VA
TOTAL (Ø A + Ø B + Ø C) = 14150 VA + 25% LCL + 25% LARGEST MOTOR = 14444 VA OR 40.1 AMPS
HIGH PHASE (Ø A) = 4976 VA + 25% LCL + 25% LARGEST MOTOR = 5270 VA OR 43.9 AMPS

MOUNTING: SURFACE (EQUIPMENT BRANCH) PANEL 1EQLB MAIN MLO
208 / 120 VOLTS 3 PHASE 4 WIRE A.I.C. RATING : 10,000 BUS 125A

DESCRIPTION	VOLT AMPS			LTG	REC	MISC	BRK	CIRC	CIRC	BRK	MISC	REC	LTG	VOLT AMPS			DESCRIPTION
	Ø A	Ø B	Ø C											Ø A	Ø B	Ø C	
HUMIDIFIER "H-1"	1900					1	20/1	1	2	**20/1**							**SPARE**
HUMIDIFIER "H-2"		1850				1	30/2	3	4	**15/2**	**1**				**801**		**SPLIT SYS INDOOR FAN COIL "SS-1"**
- - - -			1850			-	-	5	6	**-**	**-**					**801**	**- - - -**
HUMIDIFIER "H-3"	1900					1	20/1	7	8								SPACE
MRI SUITE SMOKE FIRE DAMPERS 1		900				9	20/1	9	10								SPACE
REHEAT COILS RC-1 THRU RC-6			300			6	20/1	11	12								SPACE
SPARE							20/1	13	14								SPACE
MRI SUITE SMOKE FIRE DAMPERS 2		800				8	20/1	15	16								SPACE
MRI SUITE SMOKE FIRE DAMPERS 3			**700**			**7**	20/1	17	18								SPACE
SPARE							20/1	19	20								SPACE
SPARE							20/1	21	22								SPACE
SPARE							20/1	23	24								SPACE

Ø A = 3800 VA Ø B = 4351 VA Ø C = 3651 VA LCL = (N/A) LARGEST MOTOR (LM) = (N/A)
TOTAL (Ø A + Ø B + Ø C) = 11802 VA + 25% LCL + 25% LARGEST MOTOR = 11802 VA OR 32.8 AMPS
HIGH PHASE (Ø B) = 4351 VA + 25% LCL + 25% LARGEST MOTOR = 4351 VA OR 36.2 AMPS

MOUNTING: FLUSH NORMAL POWER PANEL (E)1HPA MAIN 150A
480 / 277 VOLTS 3 PHASE 4 WIRE A.I.C. RATING : 35,000 BUS 225A

DESCRIPTION	VOLT AMPS			LTG	REC	MISC	BRK	CIRC	CIRC	BRK	MISC	REC	LTG	VOLT AMPS			DESCRIPTION
	Ø A	Ø B	Ø C											Ø A	Ø B	Ø C	
(E) CORRIDOR/LOBBY/TOILET LTS							20/1	1	2	20/1							(E) LTS PED'S THERAPY RMS
(E) LTS SOUTH SHELL SPACE							20/1	3	4	20/1							(E) LTS EXTERIOR
(E) LTS NORTH SHELL SPACE							20/1	5	6	20/1							(E) LTS N TWR 1ST FLR CORR. 1
(E) LOAD							20/1	7	8	20/1							(E) LTS N TWR 1ST FLR CORR. 2
(E) LOAD							20/1	9	10	20/1							(E) LTS RM 1001/03/06/07/11/12/13/1750
(E) SPARE							20/1	11	12	20/1							(E) LTS RM 1002/04/05/06/10/15/16/18/19
(E) MAMMO/STENO							25/3	13	14	20/1							(E) LTS RM 1022/29/35/43/47
- - - -							-	15	16	20/1							(E) LTS RM 1022/26/31/36/38/41/43/44
- - - -							-	17	18	20/1							(E) LTS RM 1025/30/32/37/39/40/45
① **MRI 1 ROOM LIGHTS**	434			14			**20/1**	19	20								(E) SPACE
① **MRI 1 CNTRL/HALL/WTNG/RDNG LTG**		1400		30			**20/1**	21	22								(E) SPACE
(E) SPACE								23	24								(E) SPACE
(E) SPACE								25	26								(E) SPACE
(E) SPACE								27	28								(E) SPACE
(E) SPACE								29	30								(E) SPACE
(E) SPACE								31	32								(E) SPACE
(E) SPACE								33	34								(E) SPACE
(E) SPACE								35	36								(E) SPACE
(E) SPACE								37	38								(E) SPACE
(E) SPACE								39	40								(E) SPACE
(E) SPACE								41	42								(E) SPACE

Ø A = 434 VA Ø B = 1400 VA Ø C = LCL = 1834 VA LARGEST MOTOR (LM) = (N/A)
TOTAL (Ø A + Ø B + Ø C) = 1834 VA + 25% LCL + 25% LARGEST MOTOR = 2293 VA OR 2.8 AMPS
HIGH PHASE (Ø B) = 1400 VA + 25% LCL + 25% LARGEST MOTOR = 1750 VA OR 6.3 AMPS

①CIRCUIT BREAKER AND LOAD ADDED WITH THIS SCOPE OF WORK. BREAKER TO MATCH EXISTING BREAKER TYPE, MANUFACTURER, AIC RATING, ETC. COORDINATE REQUIREMENTS WITH EXISTING FIELD CONDITIONS. BREAKERS TO BE INSTALLED "HOT" AND CONTRACTOR TO INCLUDE ALL NECESSARY PROVISIONS TO PERFORM LIVE WORK.

MOUNTING: FLUSH NORMAL POWER PANEL (E)1PA MAIN 225A
208 / 120 VOLTS 3 PHASE 4 WIRE A.I.C. RATING : 10,000 BUS 225A

DESCRIPTION	VOLT AMPS			LTG	REC	MISC	BRK	CIRC	CIRC	BRK	MISC	REC	LTG	VOLT AMPS			DESCRIPTION
	Ø A	Ø B	Ø C											Ø A	Ø B	Ø C	
(E) REC. TOIL & STAIRS							20/1	1	2	20/1							(E) LTS CORR
(E) DRINKING FNTN							20/1	3	4	20/1							(E) 1ST FLR WON DOOR
(E) REC VEND. MACH. / MAMMO DOOR							20/1	5	6	20/1							(E) LOAD
(E) REC CORR.							20/1	7	8	20/1							(E) LOAD
(E) REC LOBBY							20/1	9	10	20/1							(E) LOAD
(E) REC CNTRL DESK							20/1	11	12	20/1							(E) LOAD
SPARE							20/1	13	14	20/1							(E) TEMP RM 1
② SPARE							20/1	15	16	20/1							(E) TEMP RM 2
(E) RM 1004 PS							20/1	17	18	20/1		7				1260	MRI RMS 5/6/READING REC ①
(E) RMS 1001-03 / 1050 CORR							20/1	19	20	20/1							(E) ULTRA SOUND 1
(E) RM 1001-3							20/1	21	22	20/1							(E) ULTRA SOUND 2
(E) RM 1004 COPIER							20/1	23	24	20/1							(E) REC ROOF EXHAUST FAN
(E) RM 1005-06							20/1	25	26	20/1		5		900			HALL 300/TRNSFR 5 CONV REC ①
(E) RM 1006							20/1	27	28	20/1							(E) ULTRA SOUND 1008
(E) RM 1006 / TIMECLOCK							20/1	29	30	20/1							(E) PRINTER/COPIER
(E) RMS 1002/8/10-13/15/19							20/1	31	32	50/2							(E) LOAD
(E) RMS 1002/4-6/8/10-13/15							20/1	33	34	-							- - - -
(E) RMS 1007-11							20/1	35	36	20/1							SPARE ②
(E) RMS 1007/8/10/11 1							20/1	37	38	20/1							- - - -
(E) RMS 1007/8/10/11 2							20/1	39	40	20/1							SPARE ②
① CNTRL RM 14 COPY MACH.			1000		1		20/1	41	42	20/1							- - - -

Ø A = 900 VA Ø B = Ø C = 2260 VA LCL = (N/A) LARGEST MOTOR (LM) = (N/A)
TOTAL (Ø A + Ø B + Ø C) = 3160 VA + 25% LCL + 25% LARGEST MOTOR = 3160 VA OR 8.8 AMPS
HIGH PHASE (Ø C) = 2260 VA + 25% LCL + 25% LARGEST MOTOR = 2260 VA OR 18.8 AMPS

①EXISTING SPARE CIRCUIT BREAKER. LOAD ADDED WITH THIS SCOPE OF WORK.

②EXISTING BREAKER LOAD REMOVED WITH THIS SCOPE OF WORK. UPDATE DIRECTORY AS REQUIRED.

MOUNTING: FLUSH NORMAL POWER PANEL (E)1PB MAIN 225A
208 / 120 VOLTS 3 PHASE ____ WIRE A.I.C. RATING : 10,000 BUS 225A

DESCRIPTION	VOLT AMPS			LTG	REC	MISC	BRK	CIRC	CIRC	BRK	MISC	REC	LTG	VOLT AMPS			DESCRIPTION
	Ø A	Ø B	Ø C											Ø A	Ø B	Ø C	
(E) PED'S THERAPY ROOMS							20/1	1	2	20/1							(E) VIEWBOX RM 1032 1
(E) SPARE							20/1	3	4	20/1							(E) VIEWBOX RM 1032 2
SPARE							20/1	5	6	20/1							**SPARE** ②
(E) RMS 1035/36/40/43							20/1	7	8	20/1							**SPARE** ②
(E) RMS 1032/35/36							20/1	9	10	20/1							**SPARE** ②
(E) ALT RM 1032 1							20/1	11	12	20/1							(E) RMS 1024/25/27/29/31 FIRE DAMP
(E) RM 1018/CORR 1038/39/41							20/1	13	14	20/1							(E) SCREEN RM 1031
(E) ALT RM 1032C							20/1	15	16	20/1							(E) ALT RM 1030
(E) RMS 1032/38/39							20/1	17	18	20/1							(E) RMS 1022/25/26/29/30/39
(E) VIEWBOX RMS 1035/36 1							20/1	19	20	20/1							(E) RMS 1029/40/44
(E) VIEWBOX RMS 1035/36 2							20/1	21	22	20/1							(E) RMS 1032/37/40/41/43
(E) VIEWBOX RMS 1035/37							20/1	23	24	20/1							(E) RMS 1033/37/40/41
(E) ALT RM 1032 2							20/1	25	26	20/1							(E) RMS 1032/37/39/40
(E) RMS 1022/18 / CORR 1032							20/1	27	28	20/1							(E) VIEWBOX RM 1031
(E) RMS 1022/32							20/1	29	30	20/1							**SPARE** ②
(E) VIEWBOX RM 1038N							20/1	31	32	20/1							(E) MONITORS VIEW ROOM
① **TRNSFR RM 5 BED QUADS**		1260			7		20/1	33	34	20/1							(E) MONITOR CAB RM 1022
① **READING RMS 16/SUPPORT 8 REC**			1260		7		20/1	35	36	20/1							(E) MONITORS VIEW ROOM
① **READING RM 16 REC**	1260				7		20/1	37	38	20/1							(E) PEDS THERAPY/EXAM/OBSERV 1
① **WTNG 12/READING 16 REC**		1440			8		20/1	39	40	20/1							(E) PEDS THERAPY/EXAM/OBSERV 2
① **VIEWING ROOM/STAFF SUPPORT REC**			1260		7		20/1	41	42	20/1							(E) PEDS THERAPY/EXAM/OBSERV 3

Ø A = 1260 VA Ø B = 2700 VA Ø C = 2520 VA LCL = (N/A) LARGEST MOTOR (LM) = (N/A)
TOTAL (Ø A + Ø B + Ø C) = 6480 VA + 25% LCL + 25% LARGEST MOTOR = 6480 VA OR 18.0 AMPS
HIGH PHASE (Ø B) = 2700 VA + 25% LCL + 25% LARGEST MOTOR = 2700 VA OR 22.5 AMPS

①EXISTING SPARE CIRCUIT BREAKER. LOAD ADDED WITH THIS SCOPE OF WORK.

②EXISTING BREAKER LOAD REMOVED WITH THIS SCOPE OF WORK. UPDATE DIRECTORY AS REQUIRED.

MOUNTING: FLUSH LIFE SAFETY BRANCH PANEL (E)1ELHPA MAIN 70A
480 / 277 VOLTS 3 PHASE 4 WIRE A.I.C. RATING : 35,000 BUS 125A

DESCRIPTION	VOLT AMPS			LTG	REC	MISC	BRK	CIRC	CIRC	BRK	MISC	REC	LTG	VOLT AMPS			DESCRIPTION
	Ø A	Ø B	Ø C											Ø A	Ø B	Ø C	
(E) LTS N TWR 1ST FLR CORR							20/1	1	2	20/1							(E) LTS CORR. & LOBBY
(E) LTS 1047/50							20/1	3	4	20/1							(E) LTS N & S SHELL SPACE
(E) EXIT LTS 1018							20/1	5	6	20/1							(E) LTS MAMMO HALL
(E) EXIT LTS							20/1	7	8	20/1							(E) LTS CORRIDOR 1
(E) LOAD							20/1	9	10	20/1							(E) LTS CORRIDOR 2
① **TRNSFR 5 MOTOR DOOR**			1000			1	**20/1**	11	12								(E) SPACE
① **HALL 300/TRNSFR 5 MOTOR DOOR**	1000					1	**20/1**	13	14								(E) SPACE
① **MRI 1 CNTRL RM/HALLWAY/WAIT LTG**		350		10			**20/1**	15	16								(E) SPACE
(E) SPACE								17	18								(E) SPACE
(E) SPACE								19	20								(E) SPACE
(E) SPACE								21	22								(E) SPACE
(E) SPACE								23	24								(E) SPACE
(E) SPACE								25	26								(E) SPACE
(E) SPACE								27	28								(E) SPACE
(E) SPACE								29	30								(E) SPACE
(E) SPACE								31	32								(E) SPACE
(E) SPACE								33	34								(E) SPACE
(E) SPACE								35	36								(E) SPACE
(E) SPACE								37	38								(E) SPACE
(E) SPACE								39	40								(E) SPACE
(E) SPACE								41	42								(E) SPACE

Ø A = 1000 VA Ø B = 350 VA Ø C = 1000 VA LCL = 350 VA LARGEST MOTOR (LM) = (N/A)
TOTAL (Ø A + Ø B + Ø C) = 2350 VA + 25% LCL + 25% LARGEST MOTOR = 2438 VA OR 2.9 AMPS
HIGH PHASE = 1000 VA + 25% LCL + 25% LARGEST MOTOR = 1000 VA OR 3.6 AMPS

①CIRCUIT BREAKER AND LOAD ADDED WITH THIS SCOPE OF WORK. BREAKER TO MATCH EXISTING BREAKER TYPE, MANUFACTURER, AIC RATING, ETC. COORDINATE REQUIREMENTS WITH EXISTING FIELD CONDITIONS. BREAKERS TO BE INSTALLED "HOT" AND CONTRACTOR TO INCLUDE ALL NECESSARY PROVISIONS TO PERFORM LIVE WORK.

GENERAL PANEL SCHEDULE NOTES:

1. WHERE PANEL IS INDICATED AS RECESSED OR FLUSH MOUNTED, PROVIDE SPARE CONDUITS STUBBED UP INTO THE ACCESSIBLE CEILING SPACE. PROVIDE ONE (1) 3/4" CONDUIT ONLY FOR EACH THREE (3) SPARES OR SPACES, MINIMUM OF TWO (2). EACH CONDUIT SHALL BE TAGGED, CAPPED AND MARKED FOR FUTURE USE.
2. ALL BUSSING SHALL BE COOPER.
3. ALL CIRCUIT BREAKERS USED AS SWITCHES SHALL BE UL LISTED AND LABELED "SWD" FOR SWITCHING DUTY.
4. ALL CIRCUIT BREAKERS USED TO SERVE MECHANICAL OR HEATING EQUIPMENT SHALL BE UL LISTED AND LABELED "HACR" FOR USE WITH THESE LOADS, WHERE REQUIRED.
5. ALL CIRCUIT BREAKERS SHALL BE BOLT-ON TYPE AND SHALL BE SUITABLE FOR 75 DEGREE AMPACITY CONDUCTORS.
6. PANELS SHALL BE OF THE DEAD FRONT SAFETY TYPE. PANELS SHALL BE MINIMUM 20" WIDE AND 5 3/4" DEEP UNLESS OTHERWISE NOTED ON PLAN.
7. COORDINATE WITH APPLICABLE TRADE TO INSURE RECESSED MOUNTED PANELBOARDS WILL SEAT FLUSH IN THE WALLS PROVIDED. PANEL TRIMS SHALL HAVE CONCEALED DOORS AND FASTENERS WITH FLUSH TYPE COMBINATION LOCK AND CATCH. PROVIDE TWO MILLED TYPE KEYS SUPPLIED WITH EACH PANEL. ALL LOCKS SHALL BE KEYED ALIKE AND EACH DOOR SHALL HAVE A PLASTIC COVERED DIRECTORY FRAME WITH A TYPED IDENTIFICATION CARD OF ALL CIRCUIT AND PANEL NUMBERS FOR BRANCH CIRCUIT PANELBOARDS.
8. UPON PROJECT COMPLETION, CONTRACTOR SHALL INSTALL TYPED AS-BUILT PANEL DIRECTORIES IN EACH PANEL WITHIN THE MFGR-PROVIDED DIRECTORY HOLDER. DIRECTORIES SHALL CONSIST OF LOAD DESCRIPTION AND CIRCUIT NUMBER FOR EACH CIRCUIT BASED ON AS-BUILT PANEL SCHEDULES. HANDWRITTEN DIRECTORIES ARE UNACCEPTABLE. LOCAL AHJ MAY REQUIRE COPIES OF ENGINEERED PANEL SCHEDULES BE PLACED IN PANEL DIRECTORIES. E.C. TO VERIFY REQUIREMENTS PRIOR TO BID AND INCLUDE ALL COSTS REQUIRED FOR LARGER-THAN-STANDARD CUSTOM PANEL DIRECTORY HOLDERS TO ACCOMMODATE COPIES OF ENGINEERED PANEL SCHEDULES.
9. PANELBOARDS SHALL BE MANUFACTURED BY G.E., CUTLER-HAMMER, SIEMENS, OR SQUARE "D". REFER TO SINGLE-LINE DIAGRAM FOR ADDITIONAL REQUIREMENTS.
10. PROVIDE SHOP DRAWING SUBMITTAL PER THE ELECTRICAL SPECIFICATION SUBMITTAL REQUIREMENTS FOR EACH PANEL DEPICTING CONFORMANCE WITH THE ABOVE NOTES AND SCHEDULES.

(E)1ECHPA	(E)1HPA
(E)1ECPG	(E)1PA
1EQHA	(E)1PB
1EQLA	(E)1ELHPA
1EQLB	

SINGLE LINE NOTES

1. ALL EQUIPMENT TO BE SQUARE D OR EQUAL BY SIEMENS OR CUTLER HAMMER.
2. ALL ELECTRICAL EQUIPMENT SHALL BE PROVIDED WITH SPECIFIED AND APPROPRIATE UL LISTING BASED ON THE ENVIRONMENT IN WHICH THE EQUIPMENT IS TO BE MOUNTED.
3. ALL ELECTRICAL EQUIPMENT SHALL BE PROVIDED WITH AND BRACED FOR REQUIRED FAULT CURRENT RATINGS BASED ON THEIR VOLTAGE AND LOCATION WITHIN THE SYSTEM. SHOP DRAWINGS TO INCLUDE FAULT CURRENT RATINGS FOR ALL ELECTRICAL EQUIPMENT. NO SERIES RATING SHALL BE ALLOWED.
4. ALL TERMINATIONS AND ENCLOSURES SHALL BE RATED FOR USE WITH 75 DEGREES CELSIUS CONDUCTORS.
5. ALL SERVICE ENTRANCE EQUIPMENT/DISTRIBUTION BOARDS/SWITCHBOARDS RATED AT 600A OR GREATER SHALL BE PROVIDED WITH A SOLID STATE MAIN OVER-CURRENT PROTECTIVE DEVICE AND BUSSING RATED AT 100% OPERATION.
6. ALL SWITCH/DISTRIBUTION BOARDS SHALL BE PROVIDED WITH:
    a. COPPER BUSSING WITH RECTANGULAR CROSS SECTION. HORIZONTAL AND VERTICAL BUSSING SHALL BE FULL LENGTH AND HAVE PROVISIONS FOR FUTURE EXTENSIONS WERE APPLICABLE. ALL BUSSING SHALL HAVE A MINIMUM WITHSTAND RATING EQUAL TO AVAILABLE FAULT CURRENT INDICATED ON THE AIC CALCULATION. ALL VERTICAL AND HORIZONTAL BUSSING SHALL BE RATED AT FULL CAPACITY IN ALL SWITCHBOARD AND DISTRIBUTION BOARD ASSEMBLIES. PROVIDE 100% NEUTRAL BUSSING MINIMUM - UNLESS OTHERWISE NOTED. PROVIDE FULL LENGTH GROUND BUSS, AND WHERE INDICATED ON PLANS, ISOLATED GROUND BUSSING. PROVIDE REAR WIRE WAY IN ALL SWITCHBOARD SECTIONS - UNLESS OTHERWISE NOTED OR REQUIRED.
    b. LUGS SHALL BE SUITABLE FOR USE WITH COPPER CONDUCTORS AND 75 DEGREE CELSIUS AMPACITY CONDUCTORS.
    c. PERMANENT PLACARDS(S) MARKED PER THE SPECIFICATIONS AND PER NEC (CEC - WHERE ADOPTED) SECTIONS 225.37, 230.2(E), 408.4(B), 517.30(B), 690.56(B) & (C), 692.56, 700.8, 701.9, AND 702.8 DENOTING PRESENCE OF ADDITIONAL SERVICES, PHOTOVOLTAIC SYSTEMS, FUEL CELLS, EMERGENCY OR STAND-BY POWER SOURCES, ETC. AS APPLICABLE.
8. CONTRACTOR SHALL PROVIDE SWITCHBOARD SHOP DRAWINGS TO SERVING UTILITY COMPANY PRIOR TO FABRICATION OF EQUIPMENT. CONTRACTOR SHALL SECURE CONFIRMATION PROPOSED SWITCHBOARD COMPLIES WITH ELECTRICAL UTILITY COMPANY REGULATIONS.
9. ELECTRICAL EQUIPMENT SUBMITTALS SHALL BE ACCOMPANIED BY A 1/4" = 1'-0" SCALED DRAWING WHICH REFERENCES ALL ELECTRICAL EQUIPMENT ROOMS AND EQUIPMENT. DRAWING SHALL CLEARLY IDENTIFY ADEQUATE SPACE IS PROVIDED IN ELECTRICAL ROOMS TO ACCOMMODATE THE INSTALLATION OF ELECTRICAL EQUIPMENT WHILE MAINTAINING ALL REQUIRED CODE CLEARANCES. ALL SUBMITTALS NOT ACCOMPANIED BY SCALED DRAWING WILL BE REJECTED AS INCOMPLETE.
10. EC SHALL CONDUCT, WITH ASSISTANCE OF SWITCHGEAR MANUFACTURER, AN ELECTRICAL HAZARD ANALYSIS CONSISTING OF AN ARC FLASH, SHORT CIRCUIT, AND COORDINATION STUDY TO DETERMINE APPROPRIATE LEVELS OF PERSONNEL PROTECTIVE EQUIPMENT (PPE) AS REQUIRED BY NFPA 70E AND IEEE STD 1584, AND TO ENSURE PROPER COORDINATION (INCLUDING GROUND FAULT COORDINATION) EXISTS BETWEEN ALL OVER- CURRENT PROTECTIVE DEVICES SHOWN ON SINGLE-LINE DIAGRAM. ADDITIONALLY:
    a. STUDY SHALL INCLUDE ALL PORTIONS OF ELECTRICAL SINGLE-LINE DIAGRAM. NORMAL SYSTEM CONNECTIONS AND THOSE THAT RESULT IN MAXIMUM FAULT CONDITION SHALL BE ADEQUATELY COVERED IN THE STUDY. PERFORM STUDY WITH THE AID OF A COMPUTER PROGRAM, SKM CAPTOR, OR EQUAL. STUDY SHALL IDENTIFY SELECTIVE COORDINATION SUCH THAT DEVICE CLOSEST TO FAULT WILL TRIP FIRST. GROUND FAULT PORTION OF THE STUDY SHALL DEMONSTRATE COORDINATION OF MAIN BREAKER AND ANY FEEDER GROUND FAULT DEVICES WITH DOWNSTREAM CIRCUIT BREAKERS 30A AND LESS.
    b. EC SHALL BE RESPONSIBLE TO RECOMMEND SETTINGS OF ALL DEVICES AND TO NCLUDE GROUND FAULT SETTINGS NECESSARY TO ACHIEVE SYSTEM COORDINATION. CONTRACTOR SHALL FIELD ADJUST DEVICES ACCORDINGLY UTILIZING A QUALIFIED MANUFACTURER'S REPRESENTATIVE.
    c. DURING THE CONSTRUCTION PHASE OF THE PROJECT ALL GROUND FAULT RELAYS SHALL BE SET AT SHORTEST AVAILABLE TIME DELAY.
    d. RESULT OF COORDINATION STUDY SHALL BE SUBMITTED AS PART OF OVERALL SWITCHGEAR SUBMITTAL AND SHALL INCLUDE PROTECTIVE DEVICE TIME VERSUS CURRENT COORDINATION CURVES, GROUPING APPROPRIATE DEVICES TOGETHER, TABULATIONS OF RELAY AND CIRCUIT BREAKER TRIP SETTINGS, FUSE SELECTION, AND COMMENTARY REGARDING SAME.
    e. A GROUND FAULT SYSTEM TEST SHALL BE CONDUCTED BY AN INDEPENDENT TESTING AGENCY PER NEC (CEC - WHERE ADOPTED) 230.95(C). GROUND FAULT SYSTEM TEST SHALL BE PERFORMED IN PRESENCE OF LOCAL AHJ. VERIFICATION OF DEVICE SETTINGS PER THE COORDINATION STUDY SHALL BE PERFORMED BY SAME INDEPENDENT TESTING AGENCY. GROUND FAULT TEST RESULTS SHALL BE DELIVERED TO ENGINEER OF RECORD.
    f. PERFORM ARC FLASH ANALYSIS TO DETERMINE FLASH BOUNDARY, FLASH HAZARD CATEGORY, PPE REQUIREMENTS, AND MINIMUM ARC RATING (CAL/SQUARE CM). ABOVE INFORMATION SHALL BE INDICATED AT EACH ARC FLASH SOURCE ON A NEC (CEC WHERE ADOPTED) COMPLIANT ARC FLASH HAZARD LABEL(S) AS MANUFACTURED BY BRADY.
11. GROUND ALL ELECTRICAL EQUIPMENT, BRANCH CIRCUITS, FEEDERS, PANEL AND DISTRIBUTION BOARDS, ELECTRICAL SERVICES, ETC. PER ADOPTED NEC ARTICLE 250.
12. FEEDER SPECIFICATIONS ARE BASED ON USE OF COPPER CONDUCTORS AND SHALL BE PROVIDED WITH A CODE SIZED COPPER GROUNDING CONDUCTOR.
13. ALL MAIN SWITCHBOARDS, PANELBOARDS, DISTRIBUTION BOARDS, ETC SHALL BE PROVIDED WITH A COPPER BUSS RATED AT SPECIFIED AMPACITY. ALL SWITCHBOARDS AND DISTRIBUTION BOARDS SHALL ALIGN IN FRONT. ALL PANELBOARDS SHALL BE PROVIDED WITH BOLT-ON BREAKERS, DEADFRONT COVERS WITH LOCKABLE DOORS, FACTORY INSTALLED MAIN CIRCUIT BREAKERS (IF APPLICABLE), AND PANEL DIRECTORY PER THESE DOCUMENTS.
14. ALL ELECTRICAL EQUIPMENT (I.E. SWITCHGEAR, TRANSFORMERS, DISTRIBUTION BOARDS, PANELBOARDS, DISCONNECT SWITCHES, ETC.) SHALL BE PROVIDED WITH A PHENOLIC NAMEPLATE WITH ENGRAVED WHITE LETTERS REFERENCING FOLLOWING INFORMATION:

    LINE 1 - "EQUIPMENT NAME"
    LINE 2 - "FED FROM ..."
    LINE 3 - "VOLTAGE, AMPACITY, PHASE"
    LINE 4 - "DATE INSTALLED"

    NAMEPLATES SHALL BE SIZED BASED ON FOLLOWING:

    SWITCHBOARDS, DISTRIBUTION BOARDS, TRANSFORMERS:
    * LINE 1 = 1/2" LETTERS, LINES 2, 3, & 4 = 1/4" LETTERS

    PANELBOARDS, MOTOR CONTROL CENTERS, DISCONNECTS, STARTERS, ETC:
    * LINE 1 = 3/8" LETTERS, LINES 2, 3, & 4 = 1/4" LETTERS

    NAMEPLATE COLORS SHALL BE AS FOLLOWS:

    BLACK = NORMAL POWER
    RED = LIFE SAFETY/EMERGENCY POWER
    BLUE = STANDBY POWER
    GREEN = INVERTER POWER

    ALL NAMEPLATES SHALL BE FASTENED WITH A MINIMUM OF TWO (2) MACHINE SCREWS. NO SELF ADHESIVE NAMEPLATES ARE ALLOWED.
15. ELECTRICAL DESIGN COMPUTES VOLTAGE DROP BASED ON FEEDER LENGTHS REFERENCED ON SINGLE-LINE DIAGRAM. EC TO NOTIFY ENGINEER OF RECORD IN EVENT FIELD CONDITIONS CAUSE A SUBSTANTIAL INCREASE IN OVERALL FEEDER LENGTH.
16. ALL MOTOR RELATED CIRCUITS ARE TO BE PROVIDED WITH PROTECTIVE RELAYS FOR PHASE FAILURE AND UNDER-VOLTAGE.
17. ELECTRICAL CONTRACTOR TO INCLUDE IN BID ALL ASSOCIATED COSTS FOR THIRD PARTY TESTING OF ELECTRICAL EQUIPMENT, GROUND FAULT, CONDUCTORS, ETC..
18. ALL FEEDER DISTANCES REFERENCED ON DRAWINGS ARE FOR DESIGN PURPOSES ONLY. LENGTHS AS INDICATED ARE NOT TO BE UTILIZED IN MATERIAL TAKE-OFFS.
19. ALL EQUIPMENT SHALL BEAR A UL OR OTHER NRTL APPROVED LABEL AS PER CEC 110.2. REFER TO GENERAL NOTES ON THE SHEET E0.1 FOR ADDITIONAL REQUIREMENTS.

SPECIFIC PANEL SCHEDULE NOTES:

"A"	PROVIDE LOCK-ON DEVICE.
"E"	PROVIDE A RED CIRCUIT BREAKER.
"G"	PROVIDE BREAKER INTERLOCK WITH ADJACENT BREAKER. BREAKER INTERLOCK GROUPING SHALL BE BY BRANCH CIRCUIT GROUP (i.e. MULTIPLE CIRCUITS ON A COMMON YOKE NEC 210.4(B) FURNITURE SYSTEM NEC 605.7)

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JOSEPH MICHEL SFEIR No. C 28543 REN. 1-31-23

No. E 18589 12.31.2022

REV:	DESCRIPTION:	DATE:
1	OSHPD COMMENTS	8/3/2020
2	DESIGN CHANGES	8/10/2020
3	OSHPD COMMENTS	10/2/2020
4	OSHPD COMMENTS	11/24/2020
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6	ACD 0001 DESIGN CHANGES	4/14/2021
7	ACD 0001 DESIGN CHANGES	5/6/2021

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OSHPD APPROVAL STAMP:
OSHPD #: S200813-37-00-ACD0001

SHEET TITLE:
PANEL SCHEDULES & SINGLE-LINE NOTES

PROJECT TITLE:
TCMC MRI

PROJECT #: 01907.01/AGD 20-0001
DRAWN BY: STAFF
CHECKED BY: ARS
SCALE: PER TITLE
DATE: 03/11/2020
SHEET NUMBER: E0-03

06.17.2021_AGD ACD0001 w/ Del 6 & 7 Clouds

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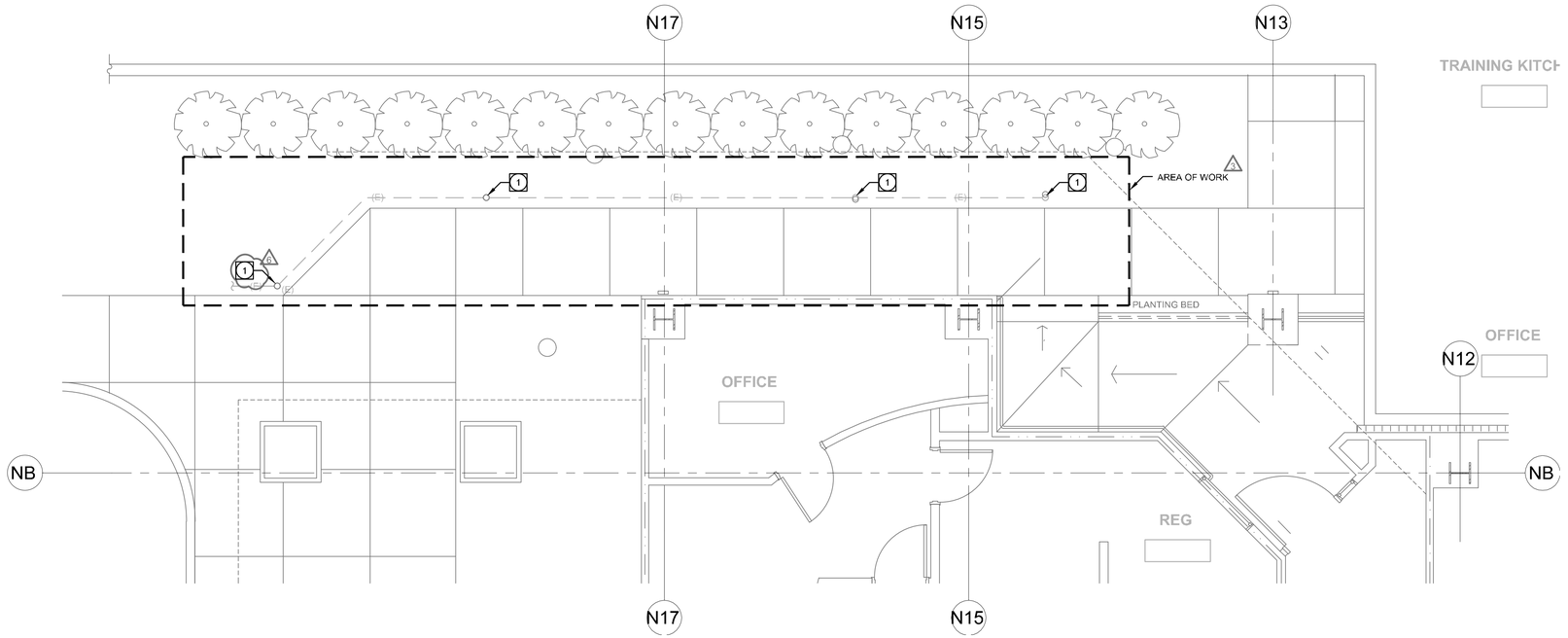

1 NORTH SIDE YARD & STAFF ENTRY DEMO
1/4" = 1'-0"

KEYNOTES

1. EXISTING LIGHTING FIXTURE TO BE CAREFULLY REMOVED AND STORED FOR RE-INSTALLATION DURING REMODEL PHASE. EXISTING ELECTRICAL CONNECTIONS ARE TO BE SAFED OFF IN THE NEAREST J-BOX. ALL EXISTING CONDUIT, BRANCH CIRCUIT CONDUCTORS, ETC. ARE TO BE PROTECTED IN PLACE. COORDINATE REQUIREMENTS WITH EXISTING FIELD CONDITIONS AND OTHER TRADES PRIOR TO COMMENCEMENT OF WORK.

DEMOLITION NOTES

A. EXISTING ITEMS SCHEDULED TO REMAIN SHALL BE PROTECTED IN PLACE AND MAINTAINED BY THE CONTRACTOR. DAMAGE TO EXISTING EQUIPMENT, STRUCTURES, SYSTEMS AND SERVICES ARE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE RESTORED OR REPLACED TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE AT THE CONTRACTOR'S EXPENSE.

B. ITEMS SCHEDULED TO BE DEMOLISHED SHALL BE DISPOSED OF BY THE CONTRACTOR.

C. UTILITIES PREVIOUSLY SERVING DEMOLISHED ITEMS SHALL BE CAPPED BEHIND ADJACENT FINISHED SURFACES UNLESS OTHERWISE DIRECTED IN THE CONTRACT DOCUMENTS. SEE MECHANICAL AND ELECTRICAL.

D. DAMAGED OR PREVIOUSLY UNFINISHED SURFACES SHALL BE RESTORED, PATCHED OR FINISHED TO MATCH ADJACENT FINISHED SURFACES.

E. THE DEMOLITION PLAN AND NOTES ARE PRESENTED AS GENERAL INFORMATION ONLY AND ARE NOT INTENDED TO REPRESENT A COMPREHENSIVE ACCOUNTING OF ALL CONDITIONS PRESENT AT THE PROJECT SITE. THE CONTRACTOR IS RESPONSIBLE FOR PREPARING THE SITE AS REQUIRED TO COMPLETE THE CONSTRUCTION OF THE FINISHED PROJECT AS DESIGNED AND DETAILED IN THE CONTRACT DOCUMENTS.

DEMOLITION ABBREVIATIONS:

E = EXISTING DEVICE, EQUIPMENT, WIRING PATH, ETC. TO REMAIN UNDISTURBED. CONTRACTOR IS TO ENSURE DEVICE IS PROTECTED IN PLACE AND UNDAMAGED DURING DEMOLITION/REMODEL SCOPE OF WORK.

XX = EXISTING DEVICE, EQUIPMENT, WIRING PATH, ETC. TO BE DEMOLISHED AND REMOVED COMPLETE. CONTRACTOR IS RESPONSIBLE FOR ENSURING CONTINUITY OF CIRCUIT TO ALL DEVICES WHICH ARE EXISTING TO REMAIN AND CONNECTED TO THE SAME CIRCUIT. CONTRACTOR TO PATCH AND REPAIR SURFACE TO MATCH EXISTING ONCE DEVICE HAS BEEN REMOVED. FIELD COORDINATE REQUIREMENTS WITH EXISTING CONDITIONS AND DEMOLITION SCOPE OF WORK.

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LICENSED ARCHITECT — JOSEPH MICHAEL SFEIR — No. C 28543 — REN. 1-31-23 — STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER — No. E 18589 — 12.31.2022 — ELECTRICAL — STATE OF CALIFORNIA

REV		DESCRIPTION:	DATE
1	1	OSHPD COMMENTS	8/3/2020
2	2	DESIGN CHANGES	8/10/2020
3	3	OSHPD COMMENTS	10/2/2020
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OSHPD APPROVAL STAMP:

OSHPD #: S200813-37-00-ACD0001

SHEET TITLE:

SIDE YARD & STAFF ENTRY DEMO PLAN

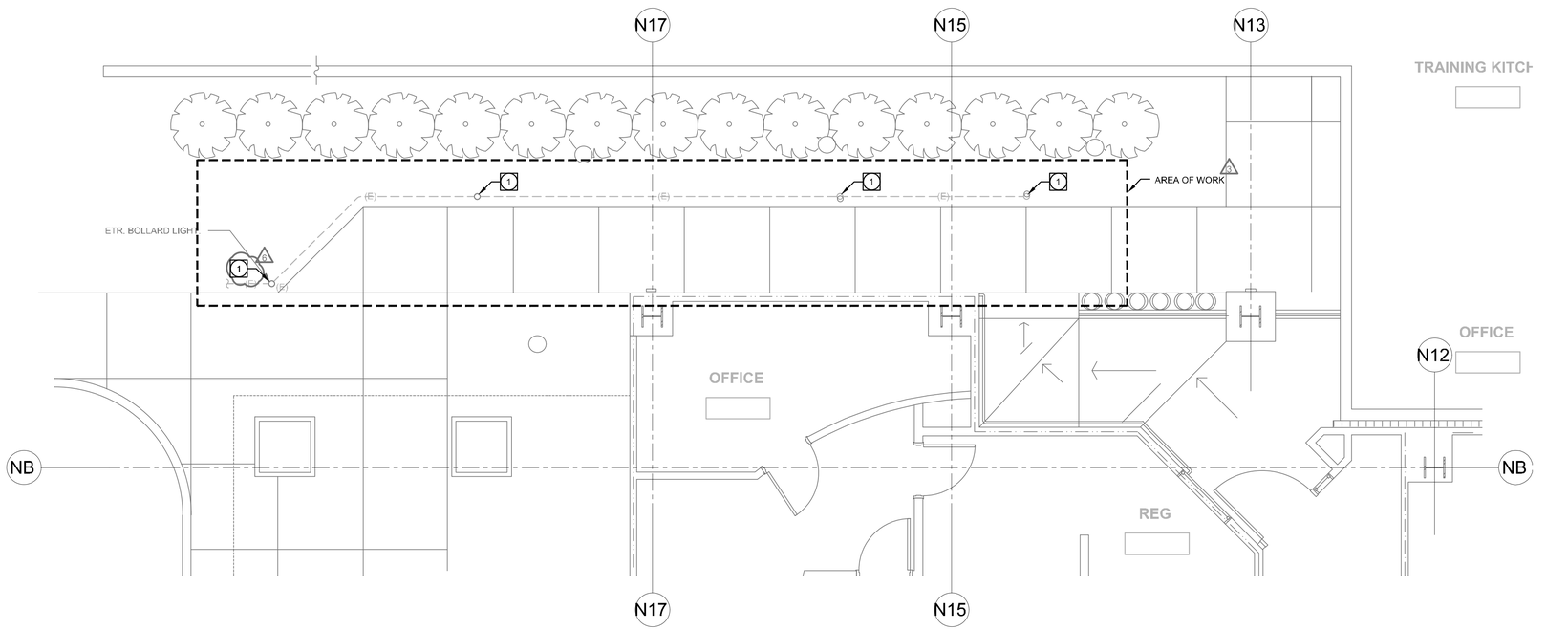
PROJECT TITLE:

TCMC MRI

PROJECT #: 01907.01/AGD 20-0001
DRAWN BY: STAFF
CHECKED BY: ARS
SCALE: PER TITLE
DATE: 03/11/2020

SHEET NUMBER:

E1-10



1 NORTH SIDE YARD & STAFF ENTRY PLAN
1/4" = 1'-0"

KEYNOTES

1 EXISTING BOLLARD REMOVED DURING DEMOLITION TO BE REINSTALLED IN SAME LOCATION UTILIZING EXISTING CONCRETE BASE, ANCHOR BOLTS, ETC. CONTRACTOR TO EXTEND AND CONNECT EXISTING CIRCUIT SAFED OFF DURING DEMOLITION TO FIXTURE. COORDINATE LOCATION AND REQUIREMENTS WITH EXISTING FIELD CONDITIONS PRIOR TO COMMENCEMENT OF WORK.

GENERAL NOTES

1. ALL EMPTY CONDUIT ARE TO BE PROVIDED WITH AN ADEQUATELY SIZED NYLON PULL ROPE.
2. ELECTRICAL CONTRACTOR SHALL REFER TO MECHANICAL/PLUMBING AND ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND CHARACTERISTICS OF ALL EQUIPMENT LISTED IN SCHEDULE. ANY MODIFICATIONS AND/OR ADDITIONAL WORK NECESSARY SHALL BE INCLUDED IN THE BASE BID.
3. ELECTRICAL CONTRACTOR SHALL VERIFY THE LOCATION OF ALL CONNECTION POINTS WITH THE EQUIPMENT INSTALLER PRIOR TO ROUGH-IN.
4. ELECTRICAL CONTRACTOR SHALL PROVIDE LOCAL REMOTE DISCONNECTING MEANS FOR ALL ELECTRIC HEATING EQUIPMENT IF REQUIRED BY THE LOCAL ELECTRICAL CODE.
5. HOME-RUNS ONLY ARE REFERENCED ON PLANS. IN ADDITION CONDUIT PATHWAYS BETWEEN DEVICES ARE NOT INCLUDED TO PROVIDE THE INSTALLING CONTRACTOR THE FLEXIBILITY TO INSTALL ALL CONDUIT AND WIRE IN THE MOST EFFICIENT AND NEAT MANNER POSSIBLE. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL REQUIRED CONDUIT AND CONDUCTORS AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM. REFER TO COVER SHEET E0-00 FOR GENERAL BRANCH CIRCUIT SIZING AND REQUIREMENTS.
6. COORDINATE LOCATIONS AND MOUNTING HEIGHTS FOR ALL DEVICES IN CONTROL ROOM, EQUIPMENT ROOM AND PROCEDURE ROOM WITH VENDOR DRAWINGS AND ELEVATIONS PRIOR TO ROUGH-IN OF ELECTRICAL.
7. IN INSTANCES WHERE A BRANCH CIRCUIT IS REFERENCED MORE THAN ONCE ON A SEPARATE HOME-RUN, THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING A J-BOX ABOVE THE PANELBOARD TO CONSOLIDATE CIRCUITS INTO ONE (1) SINGLE BRANCH CIRCUIT CONNECTION BY SPLICING ALL CONDUCTORS TOGETHER AND ROUTING ONE (1) SINGLE CONDUIT AND GROUP OF BRANCH CIRCUIT CONDUCTORS FROM THE J-BOX TO THE ASSOCIATED TERMINATIONS WITHIN THE PANELBOARD.
8. ALL CONDUITS, FEEDERS, ETC. ARE TO BE EQUIPPED WITH A CODE SIZED GREEN GROUNDING CONDUCTOR.
9. CONTRACTOR IS TO PROVIDE AND INSTALL A 4S J-BOX ABOVE THE CEILING AT EACH RECEPTACLE/DEVICE LOCATION THEN EXTEND REQUIRED/PROPERLY SIZED CONDUIT AND WIRE FROM J-BOX AND TERMINATE AT EACH DEVICE. IT IS NOT PERMITTED TO CONNECT DEVICES WITHIN THE SAME AND/OR ADJACENT/DIFFERENT ROOMS.
10. NO MC AND/OR FLEX CONNECTIONS ARE PERMITTED FOR USE EXCEPT FOR WHEN CONNECTIONS ARE BEING MADE FROM A J-BOX TO A LIGHT FIXTURE OR OTHER SIMILAR DEVICE INSTALLED ABOVE THE CEILING. ALL OUTLETS/DEVICES INSTALLED WITHIN WALLS ARE TO BE CONNECTED WITH HARD PIPE EMT CONDUIT AND WIRE.
11. ALL CONDUIT, J-BOXES, 6'-0" FLEXIBLE CONNECTIONS TO FIXTURES, METALLIC PARTS, MOUNTING HARDWARD, ETC. INSTALLED WITHIN THE MRI ROOM ARE TO BE GROUNDED ALUMINUM CONDUITS. COORDINATE REQUIREMENTS WITH FIELD CONDITIONS PRIOR TO ROUGH-IN OF ELECTRICAL.

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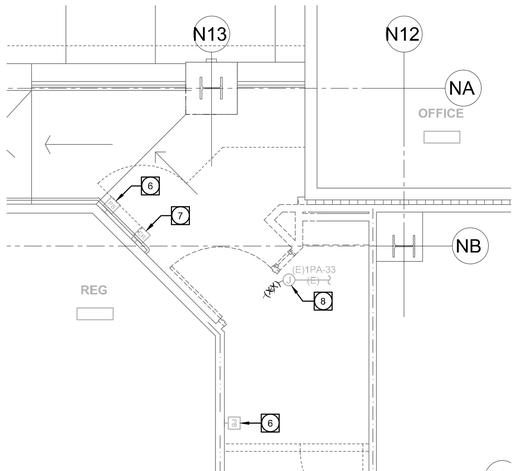
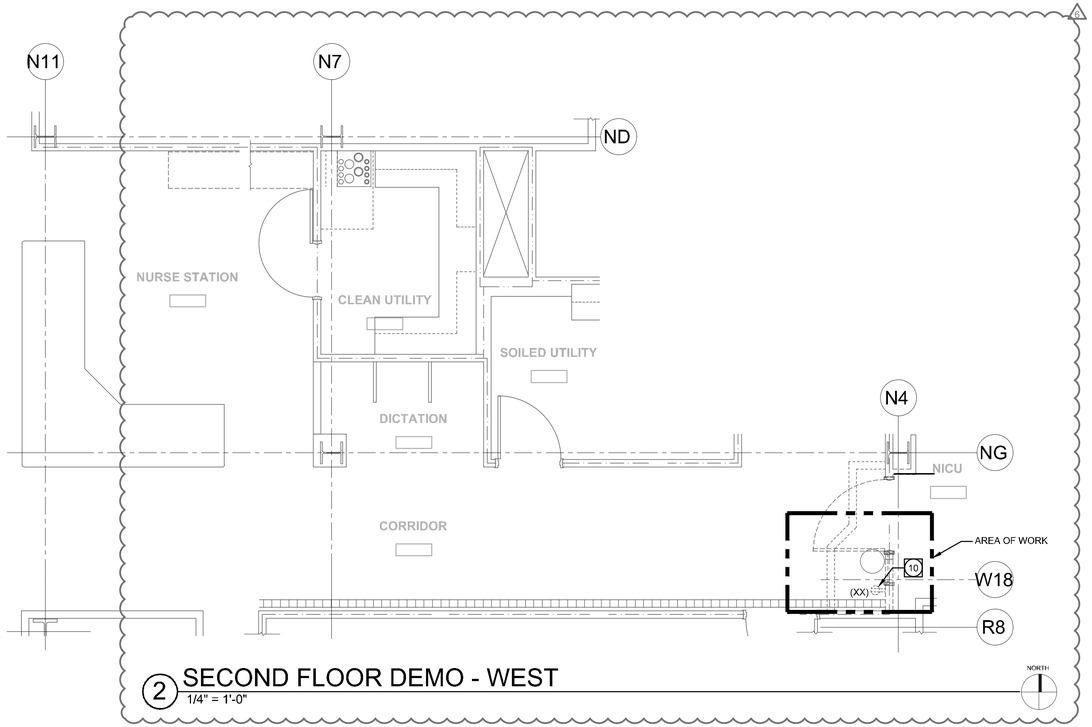
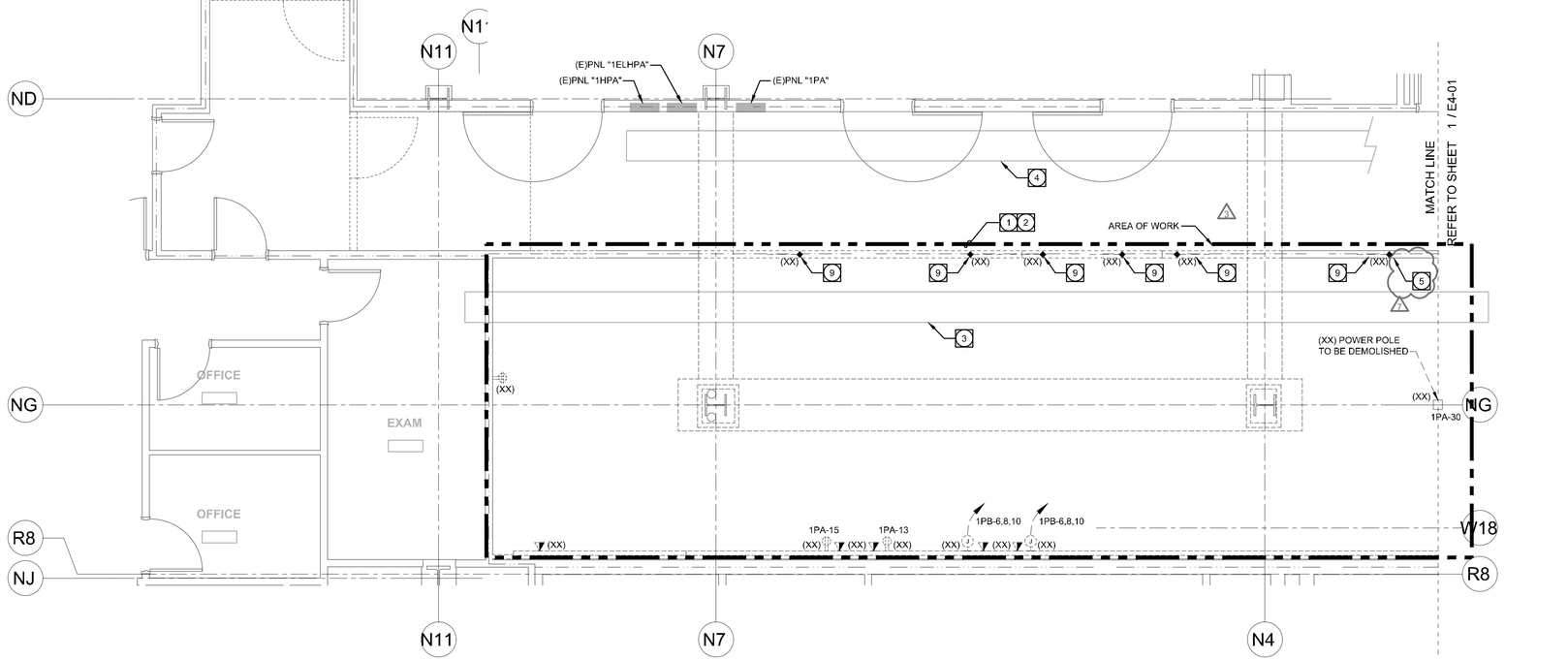




2 SECOND FLOOR DEMO - WEST
1/4" = 1'-0"



1 FIRST FLOOR DEMO - WEST
1/4" = 1'-0"

KEYNOTES

1. AS PART OF THE CONTRACTOR'S SCOPE OF SERVICES A THOROUGH AND COMPREHENSIVE AS-BUILT DOCUMENTATION PROCESS OF ALL EXISTING ELECTRICAL DEVICE LOCATIONS, TYPES, ETC. AND ALL BRANCH CIRCUITING IS REQUIRED TO BE PERFORMED PRIOR TO COMMENCEMENT OF DEMOLITION SCOPE OF WORK. WORK IS TO BE PERFORMED AFTER HOURS AND IN A MANNER WHICH MINIMIZES THE IMPACT TO EXISTING HOSPITAL FUNCTIONS.
2. CONTRACTOR IS RESPONSIBLE FOR SAFE-OFF AND DEMOLITION OF ALL EXISTING ELECTRICAL OUTLETS, RECEPTACLES, POWER CONNECTIONS, ETC. AS NOTED/IDENTIFIED TO BE DEMOLISHED AND REMOVED COMPLETE WITH AN "(XX)". TRACE ALL EXISTING CIRCUIT BACK TO NEAREST PANEL PRIOR TO DEMOLITION. UPDATE ALL PANEL DIRECTORIES AS REQUIRED REFERENCING SPARES AND ANY OTHER PERTINENT UPDATES WHICH RESULT FROM THE DEMOLITION. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ELECTRICAL CONTINUITY TO DEVICES, EQUIPMENT, LIGHTING FIXTURES, ETC. WHICH ARE EXISTING TO REMAIN IN ADJACENT SPACES.
3. EXISTING CONDUIT TRAPEZE WITH TWO (2) 3/4", ONE (1) 1" AND ONE (1) 1-1/4" CONDUIT ROUTED OVERHEAD. CONTRACTOR TO INCLUDE PROVISIONS TO RELOCATE CONDUITS TO ACCOMMODATE OVERHEAD DUCT WORK AND SHIELDING INSTALLED WITH THIS SCOPE OF WORK. CONTRACTOR IS RESPONSIBLE FOR TRACING ALL EXISTING CONDUITS FROM SOURCE TO ORIGIN AND PROVIDING AS-BUILT DOCUMENTS FOR REVIEW BY THE EEOR OF RECORD PRIOR TO COMMENCEMENT OF WORK. INCLUDE PROVISION FOR TEMPORARY GENERATOR TO BACK-FEED EXISTING EQUIPMENT DURING THE RELOCATION. COORDINATE REQUIREMENTS WITH EXISTING FIELD CONDITIONS.
4. EXISTING CONDUIT TRAPEZE TO BE PROTECTED IN PLACE.
5. EXISTING GROUND SYSTEM INSTALLED WITHIN J-BOX IN EXISTING WALL TO BE PROTECTED IN PLACE AND MAINTAINED. CONTRACTOR TO PROVIDE ACCESS PANEL FROM CORRIDOR TO PROVIDE ACCESS TO THE CONDUCTORS WHICH ARE TO BE PROTECTED IN PLACE. BOX OUT AROUND CONDUIT OR WRAP IN FIRE PROOF CAULKING TO MAINTAIN WALL FIRE RATING. COORDINATE REQUIREMENTS WITH EXISTING FIELD CONDITIONS.
6. EXISTING WALL MOUNTED PUSH BUTTON CONTROL FOR DOOR/OVERHEAD DOOR CONTROLLER BEING DEMOLISHED AND REMOVED COMPLETE WITH THIS PROJECT. CONTRACTOR TO PROTECT DEVICE IN PLACE AND ALL ASSOCIATED WIRING FOR EXTENSION/CONNECTION TO REPLACEMENT DOOR DURING THE REMODEL PHASE. COORDINATE REQUIREMENTS WITH EXISTING FIELD CONDITIONS.
7. EXISTING WALL MOUNTED CARD READER CONTROL FOR DOOR/OVERHEAD DOOR CONTROLLER BEING DEMOLISHED AND REMOVED COMPLETE WITH THIS PROJECT. CONTRACTOR TO PROTECT DEVICE IN PLACE AND ALL ASSOCIATED WIRING FOR EXTENSION/CONNECTION TO REPLACEMENT DOOR DURING THE REMODEL PHASE. COORDINATE REQUIREMENTS WITH EXISTING FIELD CONDITIONS.
8. DEMOLISH EXISTING ELECTRICAL CONNECTION TO DOOR CONTROLLER BACK TO NEAREST J-BOX AND SAFE OFF FEEDER CONDUCTORS FOR RE-USE/ RECONNECTION DURING THE REMODEL PHASE. COORDINATE REQUIREMENTS WITH EXISTING FILED CONDITIONS.
9. EXISTING FIRE SMOKE DAMPER TO BE DEMOLISHED AND REMOVED COMPLETE. CONTRACTOR RESPONSIBLE FOR TRACING EXISTING CIRCUIT PRIOR TO COMMENCEMENT OF DEMO TO DETERMINE BRANCH CIRCUIT POWERING THE DEVICE. UPDATE SCHEDULES/DIRECTORIES IN PANELBOARDS AS REQUIRED. MAINTAIN POWER CONTINUITY TO ALL EXISTING DEVICES AND REWIRE AS REQUIRED. COORDINATE REQUIREMENTS WITH EXISTING FIELD CONDITIONS AND OTHER TRADES.
10. DEMOLISH AND REMOVE EXISTING RECEPTACLE COMPLETE INCLUDING EXISTING CONDUIT/WIRE FROM DEVICE BACK TO NEAREST J-BOX. CONTRACTOR IS RESPONSIBLE FOR ENSURING ELECTRICAL POWER CONTINUITY IS MAINTAINED TO ALL UPSTREAM AND DOWNSTREAM DEVICES. COORDINATE REQUIREMENTS. BRANCH CIRCUIT INFORMATION, ETC. WITH EXISTING FIELD CONDITIONS PRIOR TO COMMENCEMENT OF WORK.

DEMOLITION NOTES

A. EXISTING ITEMS SCHEDULED TO REMAIN SHALL BE PROTECTED IN PLACE AND MAINTAINED BY THE CONTRACTOR. DAMAGE TO EXISTING EQUIPMENT, STRUCTURES, SYSTEMS AND SERVICES ARE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE RESTORED OR REPLACED TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE AT THE CONTRACTOR'S EXPENSE.

B. ITEMS SCHEDULED TO BE DEMOLISHED SHALL BE DISPOSED OF BY THE CONTRACTOR.

C. UTILITIES PREVIOUSLY SERVING DEMOLISHED ITEMS SHALL BE CAPPED BEHIND ADJACENT FINISHED SURFACES UNLESS OTHERWISE DIRECTED IN THE CONTRACT DOCUMENTS. SEE MECHANICAL AND ELECTRICAL.

D. DAMAGED OR PREVIOUSLY UNFINISHED SURFACES SHALL BE RESTORED, PATCHED OR FINISHED TO MATCH ADJACENT FINISHED SURFACES.

E. THE DEMOLITION PLAN AND NOTES ARE PRESENTED AS GENERAL INFORMATION ONLY AND ARE NOT INTENDED TO REPRESENT A COMPREHENSIVE ACCOUNTING OF ALL CONDITIONS PRESENT AT THE PROJECT SITE. THE CONTRACTOR IS RESPONSIBLE FOR PREPARING THE SITE AS REQUIRED TO COMPLETE THE CONSTRUCTION OF THE FINISHED PROJECT AS DESIGNED AND DETAILED IN THE CONTRACT DOCUMENTS. DESIGN IS BASED ON OF AS-BUILT DOCUMENTS AND VISUAL SITE SURVEYS. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXISTING CONDITIONS, CIRCUITING, CONDUIT ROUTING, ETC. WITH EXISTING FIELD CONDITIONS PRIOR TO AND THROUGHOUT DEMO/CONSTRUCTION.

DEMOLITION ABBREVIATIONS:

E = EXISTING DEVICE, EQUIPMENT, W/RING PATH, ETC. TO REMAIN UNDISTURBED. CONTRACTOR IS TO ENSURE DEVICE IS PROTECTED IN PLACE AND UNDAMAGED DURING DEMOLITION/REMODEL SCOPE OF WORK.

XX = EXISTING DEVICE, EQUIPMENT, W/RING PATH, ETC. TO BE DEMOLISHED AND REMOVED COMPLETE. CONTRACTOR IS RESPONSIBLE FOR ENSURING CONTINUITY OF CIRCUIT TO ALL DEVICES WHICH ARE EXISTING TO REMAIN AND CONNECTED TO THE SAME CIRCUIT. CONTRACTOR TO PATCH AND REPAIR SURFACE TO MATCH EXISTING ONCE DEVICE HAS BEEN REMOVED. FIELD COORDINATE REQUIREMENTS WITH EXISTING CONDITIONS AND DEMOLITION SCOPE OF WORK.

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TCMC MRI

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LICENSED ARCHITECT JOSEPH MICHEL SFEIR No. C 28543 REN. 1-31-23 STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER ANDREW R. SMITH No. E 18589 12.31.2022 ELECTRICAL STATE OF CALIFORNIA

1	1	OSHPD COMMENTS	8/3/2020
2	2	DESIGN CHANGES	8/10/2020
3	3	OSHPD COMMENTS	10/2/2020
4	4	OSHPD COMMENTS	11/24/2020
5	5	DESIGN CHANGES	11/24/2020
6	6	ACD 0001 DESIGN CHANGES	4/14/2021
7	7	ACD 0001 DESIGN CHANGES	5/6/2021

REV: DESCRIPTION: DATE:

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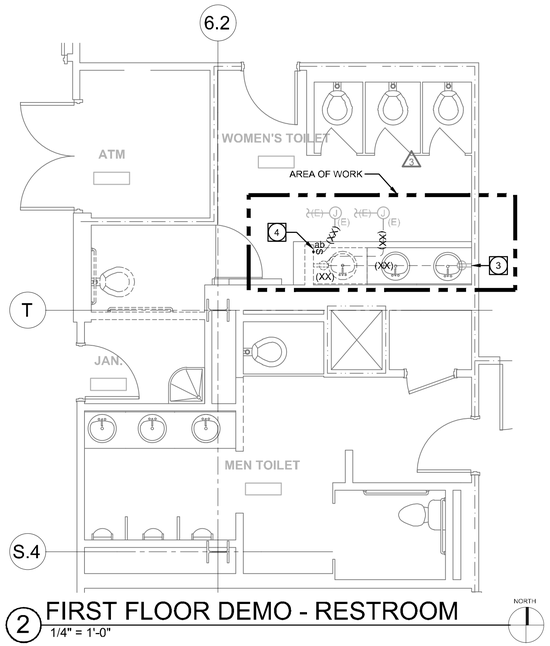
OSHPD APPROVAL STAMP:
OSHPD #: S200813-37-00-ACD0001

SHEET TITLE:
1/4" PARTIAL DEMO PLAN

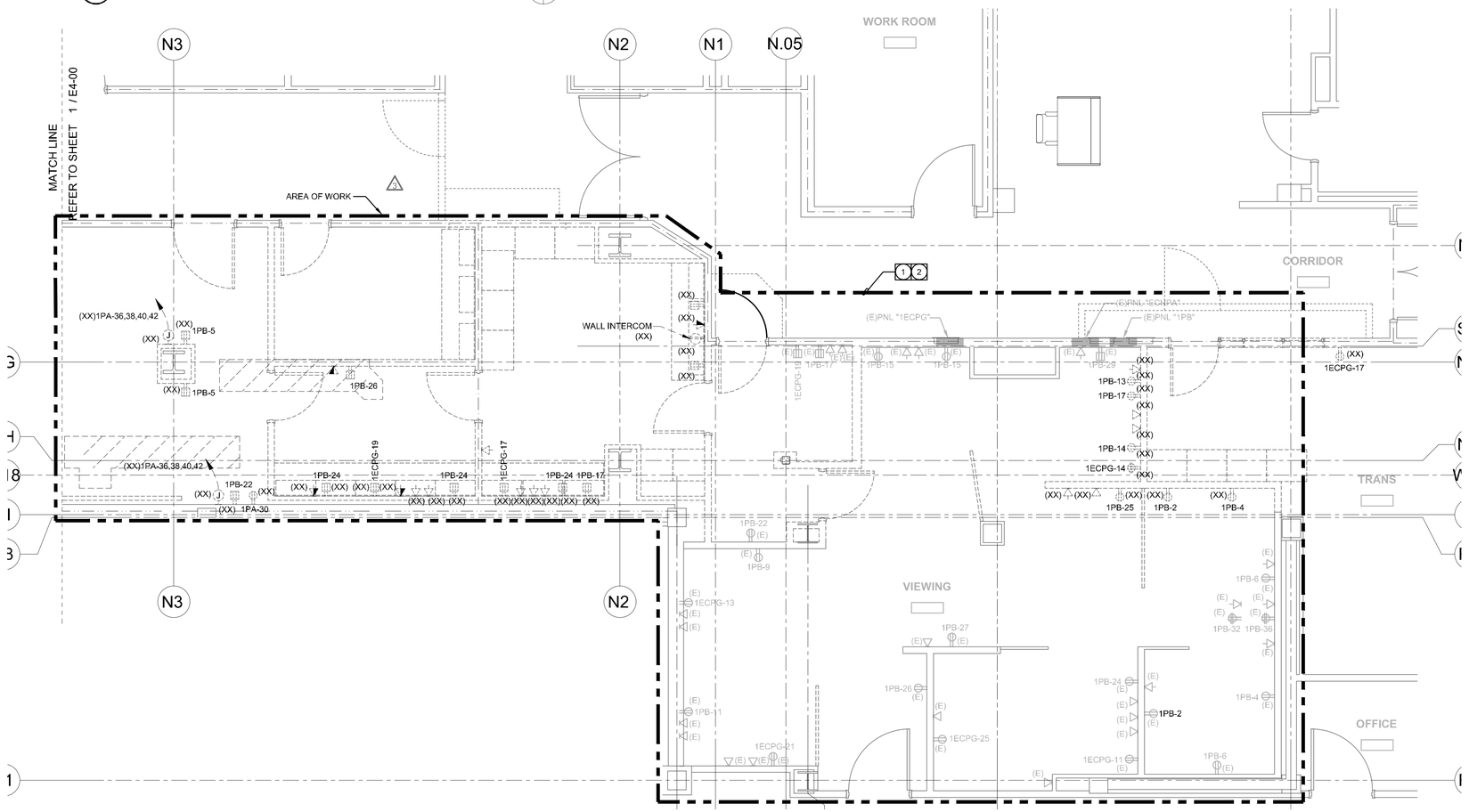
PROJECT TITLE:
TCMC MRI

PROJECT #: 01907.01/AGD 20-0001
DRAWN BY: STAFF
CHECKED BY: ARS
SCALE: PER TITLE
DATE: 03/11/2020

SHEET NUMBER: E4-00



2 FIRST FLOOR DEMO - RESTROOM
1/4" = 1'-0"



1 FIRST FLOOR DEMO - EAST
1/4" = 1'-0"

KEYNOTES

1. AS PART OF THE CONTRACTOR'S SCOPE OF SERVICES A THOROUGH AND COMPREHENSIVE AS-BUILT DOCUMENTATION PROCESS OF ALL EXISTING ELECTRICAL DEVICE LOCATIONS, TYPES, ETC. AND ALL BRANCH CIRCUITING IS REQUIRED TO BE PERFORMED PRIOR TO COMMENCEMENT OF DEMOLITION SCOPE OF WORK. WORK IS TO BE PERFORMED AFTER HOURS AND IN A MANNER WHICH MINIMIZES THE IMPACT TO EXISTING HOSPITAL FUNCTIONS.
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3. EXISTING RECEPTACLE TO BE PROTECTED IN PLACE. CONTRACTOR RESPONSIBLE FOR RE-ROUTING/EXTENDING POWER CIRCUIT TO DEVICE. CONTRACTOR TO PERFORM CIRCUIT TRACING TO VERIFY EXISTING BRANCH CIRCUITING PRIOR TO OPENING/PROCEEDING WITH DEMOLISH. COORDINATE REQUIREMENTS WITH EXISTING FIELD CONDITIONS PRIOR TO COMMENCEMENT OF WORK.
4. DEMOLISH AND REMOVE COMPLETE EXISTING "a,b" SWITCH. SAFE-OFF POWER AND SWITCHLEGS IN J-BOX ABOVE CEILING. CONTRACTOR TO PERFORM CIRCUIT TRACING TO VERIFY EXISTING BRANCH CIRCUITING PRIOR TO OPENING/PROCEEDING WITH DEMOLISH. COORDINATE REQUIREMENTS WITH EXISTING CONDITIONS.

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A. EXISTING ITEMS SCHEDULED TO REMAIN SHALL BE PROTECTED IN PLACE AND MAINTAINED BY THE CONTRACTOR. DAMAGE TO EXISTING EQUIPMENT, STRUCTURES, SYSTEMS AND SERVICES ARE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE RESTORED OR REPLACED TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE AT THE CONTRACTOR'S EXPENSE.

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REGISTERED PROFESSIONAL ENGINEER No. E 18589 12.31.2022 ELECTRICAL STATE OF CALIFORNIA

REV.	DESCRIPTION:	DATE:
1	OSHPD COMMENTS	8/3/2020
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OSHPD APPROVAL STAMP:

OSHPD #: S200813-37-00-ACD0001

SHEET TITLE:

1/4" PARTIAL DEMO PLAN

PROJECT TITLE:

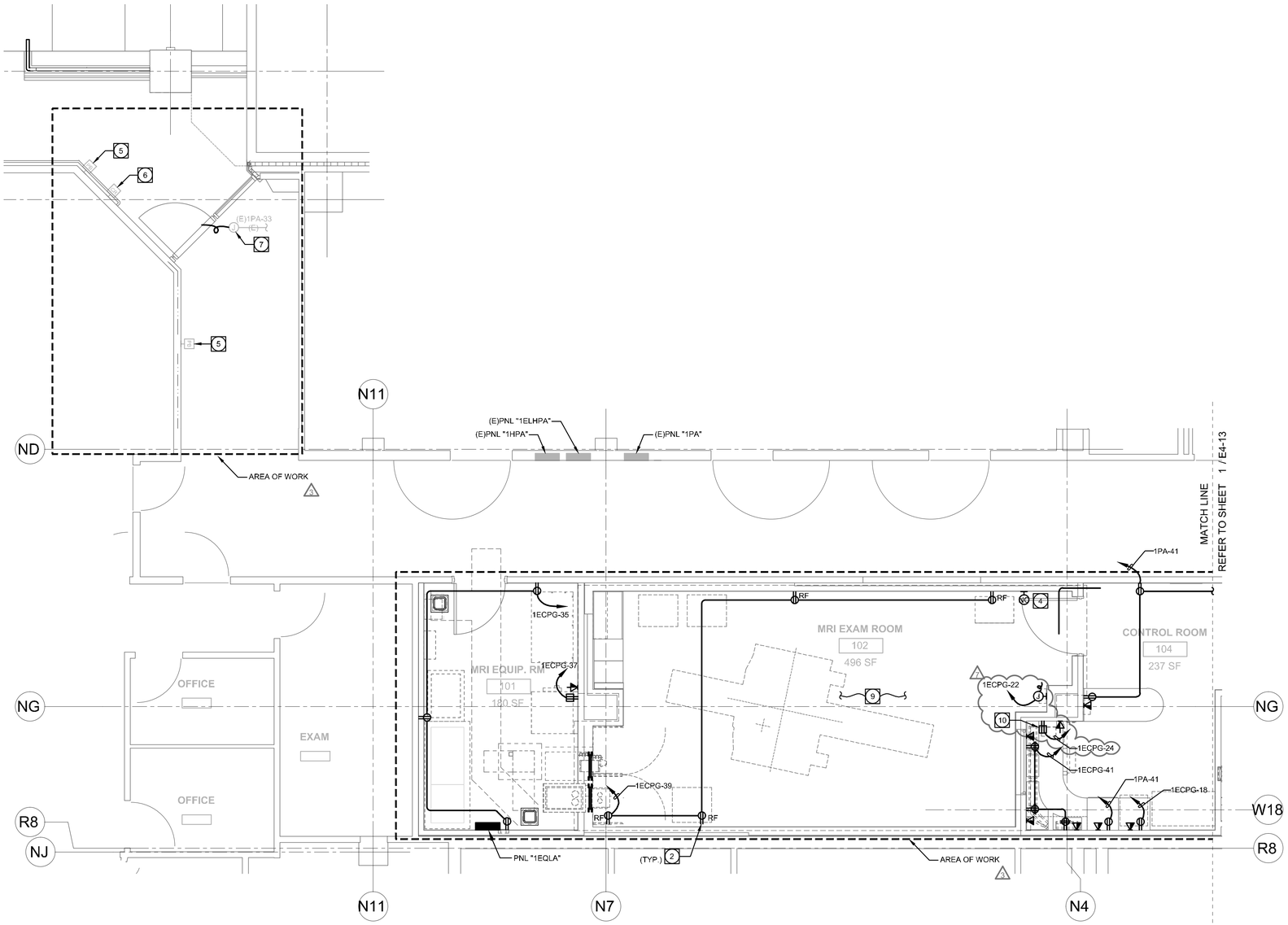
TCMC MRI

PROJECT #: 01907.01/AGD 20-0001
DRAWN BY: STAFF
CHECKED BY: ARS
SCALE: PER TITLE
DATE: 03/11/2020

SHEET NUMBER: E4-01

06.17.2021_AGD ACD0001 w/ Del 6 & 7 Clouds

100% - CONSTRUCTION DOCS



KEYNOTES

1. CONTROL/LV TRANSFORMER FOR SINK AND/OR AUTOFLUSH VALVE AUTOMATIC CONTROLS INSTALLED ABOVE THE CEILING. CONTRACTOR TO PROVIDE ALL REQUIRED ELECTRICAL CONNECTIONS. TRANSFORMER PROVIDED AND INSTALLED BY OTHERS. COORDINATE LOCATION AND REQUIREMENTS PRIOR TO ROUGH-IN OF ELECTRICAL.
2. ROUTE CIRCUIT POWER DEVICE THROUGH RF FILTER PRIOR TO EXTENDING BRANCH CIRCUIT AND CONDUIT INTO MRI ROOM. TYPICAL FOR ALL DEVICES WITH AN "RF" ADJACENT TO THE DEVICE.
3. PROVIDE AND INSTALL 20A/1P MOTOR RATED TOGGLE SWITCH WITH THERMAL OVERLOAD PROTECTION TO PROVIDE DISCONNECTING MEANS FOR TERMINAL UNIT. COORDINATE MOUNTING LOCATION AND CONNECTIONS POINT WITH MECHANICAL CONTRACTOR AND EQUIPMENT INSTALLATION DRAWINGS. TYPICAL FOR "TU-1", "TU-2", "TU-3" AND "TU-4".
4. PROVIDE AND INSTALL "4S" BACK-BOX AND 3/4"C.O. TO ACCESSIBLE CEILING FOR INSTALLATION OF WALL MOUNTED NURSE CALL DEVICE. CONDUIT TO BE EQUIPPED WITH A NYLON PULL STRING AND PROTECTIVE BUSHING. COORDINATE REQUIREMENTS WITH DESIGN BUILD NURSE CALL CONTRACTOR SCOPE OF WORK PRIOR TO ROUGH-IN OF ELECTRICAL.
5. EXISTING WALL MOUNTED PUSH BUTTON CONTROL FOR DOOR/OVERHEAD DOOR CONTROLLER TO BE RE-USED/RECONNECTED FOR MOTORIZED CONTROL OF REPLACEMENT DOOR. EXTEND AND CONNECT LOW VOLTAGE CONTROL CONNECTIONS PER MANUFACTURER'S REQUIREMENTS. COORDINATE REQUIREMENTS WITH EXISTING FIELD CONDITIONS, MANUFACTURER'S INSTALLATION GUIDES AND OTHER TRADES.
6. EXISTING WALL MOUNTED CARD READER CONTROL FOR DOOR/OVERHEAD DOOR CONTROLLER TO BE RE-USED/RECONNECTED FOR MOTORIZED CONTROL OF REPLACEMENT DOOR. EXTEND AND CONNECT LOW VOLTAGE CONTROL CONNECTIONS PER MANUFACTURER'S REQUIREMENTS. COORDINATE REQUIREMENTS WITH EXISTING FIELD CONDITIONS, MANUFACTURER'S INSTALLATION GUIDES AND OTHER TRADES.
7. EXTEND AND CONNECT EXISTING ELECTRICAL CONNECTION TO DOOR CONTROLLER BACK FROM NEAREST J-BOX. COORDINATE REQUIREMENTS MANUFACTURER'S INSTALLATION GUIDES, EXISTING FILED CONDITIONS AND OTHER TRADES.
8. PROVIDE AND INSTALL 120V-1PH POWER TO MAGNET RUNDOWN UNIT FROM RF FILTER. COORDINATE MOUNTING LOCATION, CONNECTION AND INSTALLATION REQUIREMENTS WITH VENDOR INSTALLATION GUIDE AND INSTALLER.
9. CONTRACTOR IS RESPONSIBLE FOR PROVIDING WIFI DEVICES AND CONNECTIVITY WITHIN THE MRI EXAM ROOM. ALL EQUIPMENT TO BE SUITABLE FOR INSTALLATION WITHIN AN MRI EXAM ROOM AND SHIELDED AS REQUIRED. CONTRACTOR RESPONSIBLE FOR PROVIDING ALL EQUIPMENT NECESSARY FOR A COMPLETE AND OPERATIONAL WIRELESS SYSTEM INCLUSIVE OF A MINIMUM OF TWO (2) WALL MOUNTED WIFI ROUTERS, CONDUITS, CABLING, ETC. AS REQUIRED. COORDINATE REQUIREMENTS WITH FIELD CONDITIONS, OTHER TRADES, MRI VENDOR AND FACILITY I/T STAFF AS REQUIRED.
10. DEDICATED ELECTRICAL OUTLET FOR MRI INJECTOR. CONTRACTOR TO INSTALL 4S J-BOX ADJACENT TO OUTLET AND DIRECTLY BELOW RF FILTER WITH SINGLE-GANG COVER PLATES. J-BOXES ARE TO BE INTERCONNECTED WITH 2"C.O. WITH NYLON PULL ROPE INSTALLED WITHIN THE WALL CAVITY. COORDINATE MOUNTING LOCATION AND REQUIREMENTS WITH FIELD CONDITIONS, MRI INJECTOR VENDOR, ARCHITECTURAL PLANS/ELEVATIONS AND OTHER TRADES AS REQUIRED.

GENERAL NOTES

1. ALL EMPTY CONDUIT ARE TO BE PROVIDED WITH AN ADEQUATELY SIZED NYLON PULL ROPE.
2. ELECTRICAL CONTRACTOR SHALL REFER TO MECHANICAL/PLUMBING AND ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND CHARACTERISTICS OF ALL EQUIPMENT LISTED IN SCHEDULE. ANY MODIFICATIONS AND/OR ADDITIONAL WORK NECESSARY SHALL BE INCLUDED IN THE BASE BID.
3. ELECTRICAL CONTRACTOR SHALL VERIFY THE LOCATION OF ALL CONNECTION POINTS WITH THE EQUIPMENT INSTALLER PRIOR TO ROUGH-IN.
4. ELECTRICAL CONTRACTOR SHALL PROVIDE LOCAL REMOTE DISCONNECTING MEANS FOR ALL ELECTRIC HEATING EQUIPMENT IF REQUIRED BY THE LOCAL ELECTRICAL CODE.
5. HOME-RUNS ONLY ARE REFERENCED ON PLANS. IN ADDITION CONDUIT PATHWAYS BETWEEN DEVICES ARE NOT INCLUDED TO PROVIDE THE INSTALLING CONTRACTOR THE FLEXIBILITY TO INSTALL ALL CONDUIT AND WIRE IN THE MOST EFFICIENT AND NEAT MANNER POSSIBLE. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL REQUIRED CONDUIT AND CONDUCTORS AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM. REFER TO COVER SHEET E0.01 FOR GENERAL BRANCH CIRCUIT SIZING AND REQUIREMENTS.
6. COORDINATE LOCATIONS AND MOUNTING HEIGHTS FOR ALL DEVICES IN CONTROL ROOM, EQUIPMENT ROOM AND PROCEDURE ROOM WITH VENDOR DRAWINGS AND ELEVATIONS PRIOR TO ROUGH-IN OF ELECTRICAL.
7. IN INSTANCES WHERE A BRANCH CIRCUIT IS REFERENCED MORE THAN ONCE ON A SEPARATE HOME-RUN, THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING A J-BOX ABOVE THE PANELBOARD TO CONSOLIDATE CIRCUITS INTO ONE (1) SINGLE BRANCH CIRCUIT CONNECTION BY SPLICING ALL CONDUCTORS TOGETHER AND ROUTING ONE (1) SINGLE CONDUIT AND GROUP OF BRANCH CIRCUIT CONDUCTORS FROM THE J-BOX TO THE ASSOCIATED TERMINATIONS WITHIN THE PANELBOARD.
8. ALL CONDUITS, FEEDERS, ETC. ARE TO BE EQUIPPED WITH A CODE SIZED GREEN GROUNDING CONDUCTOR.
9. CONTRACTOR IS TO PROVIDE AND INSTALL A 4S J-BOX ABOVE THE CEILING AT EACH RECEPTACLE/DEVICE LOCATION THEN EXTEND REQUIRED/PROPERLY SIZED CONDUIT AND WIRE FROM J-BOX AND TERMINATE AT EACH DEVICE. IT IS NOT PERMITTED TO CONNECT DEVICES WITHIN THE SAME AND/OR ADJACENT/DIFFERENT ROOMS.
10. NO MC AND/OR FLEX CONNECTIONS ARE PERMITTED FOR USE EXCEPT FOR WHEN CONNECTIONS ARE BEING MADE FROM A J-BOX TO A LIGHT FIXTURE OR OTHER SIMILAR DEVICE INSTALLED ABOVE THE CEILING. ALL OUTLETS/DEVICES INSTALLED WITHIN WALLS ARE TO BE CONNECTED WITH HARD PIPE EMT CONDUIT AND WIRE.
11. ALL CONDUIT, J-BOXES, 6'-0" FLEXIBLE CONNECTIONS TO FIXTURES, METALLIC PARTS, MOUNTING HARDWARD, ETC. INSTALLED WITHIN THE MRI ROOM ARE TO BE GROUNDED ALUMINUM CONDUITS. COORDINATE REQUIREMENTS WITH FIELD CONDITIONS PRIOR TO ROUGH-IN OF ELECTRICAL.

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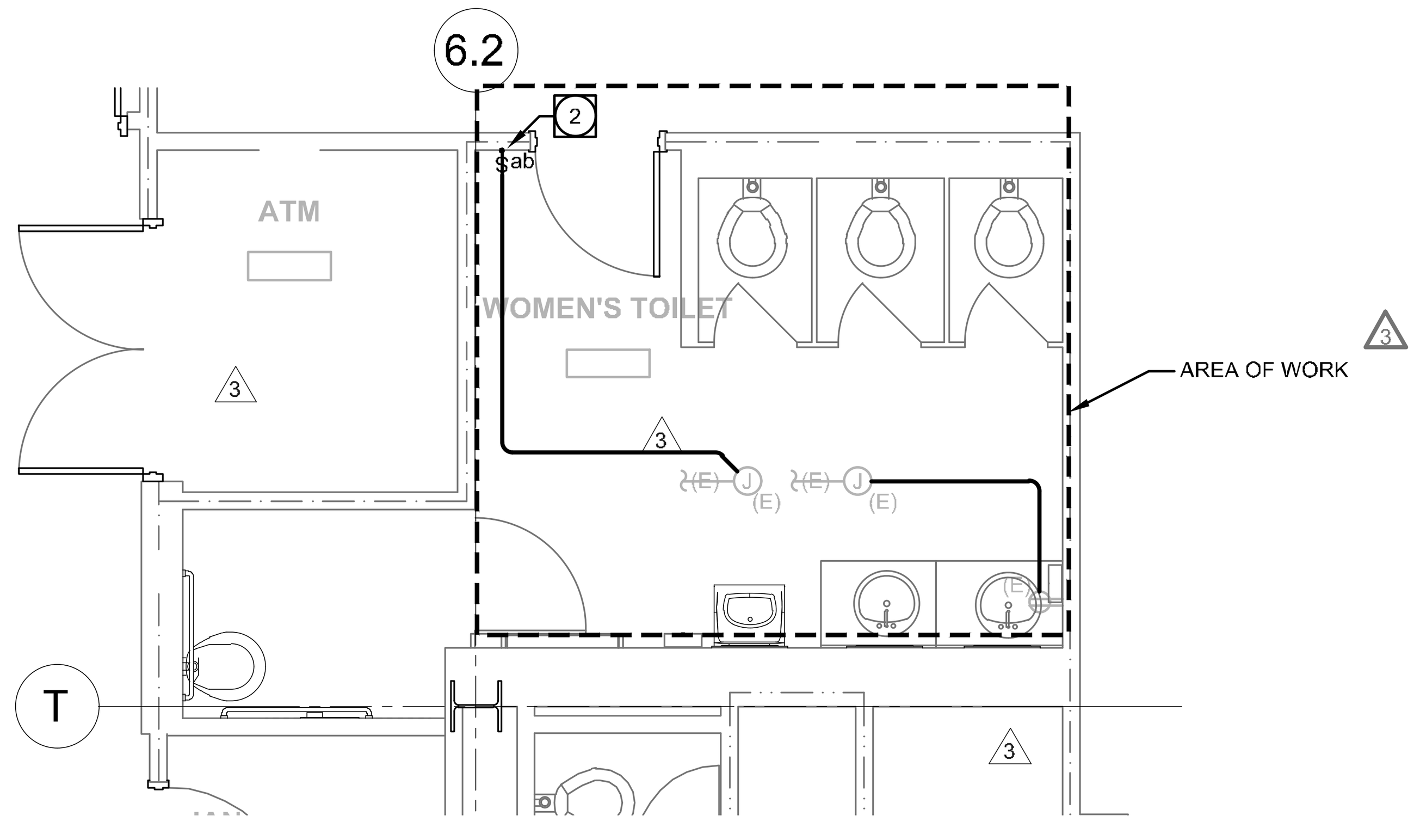
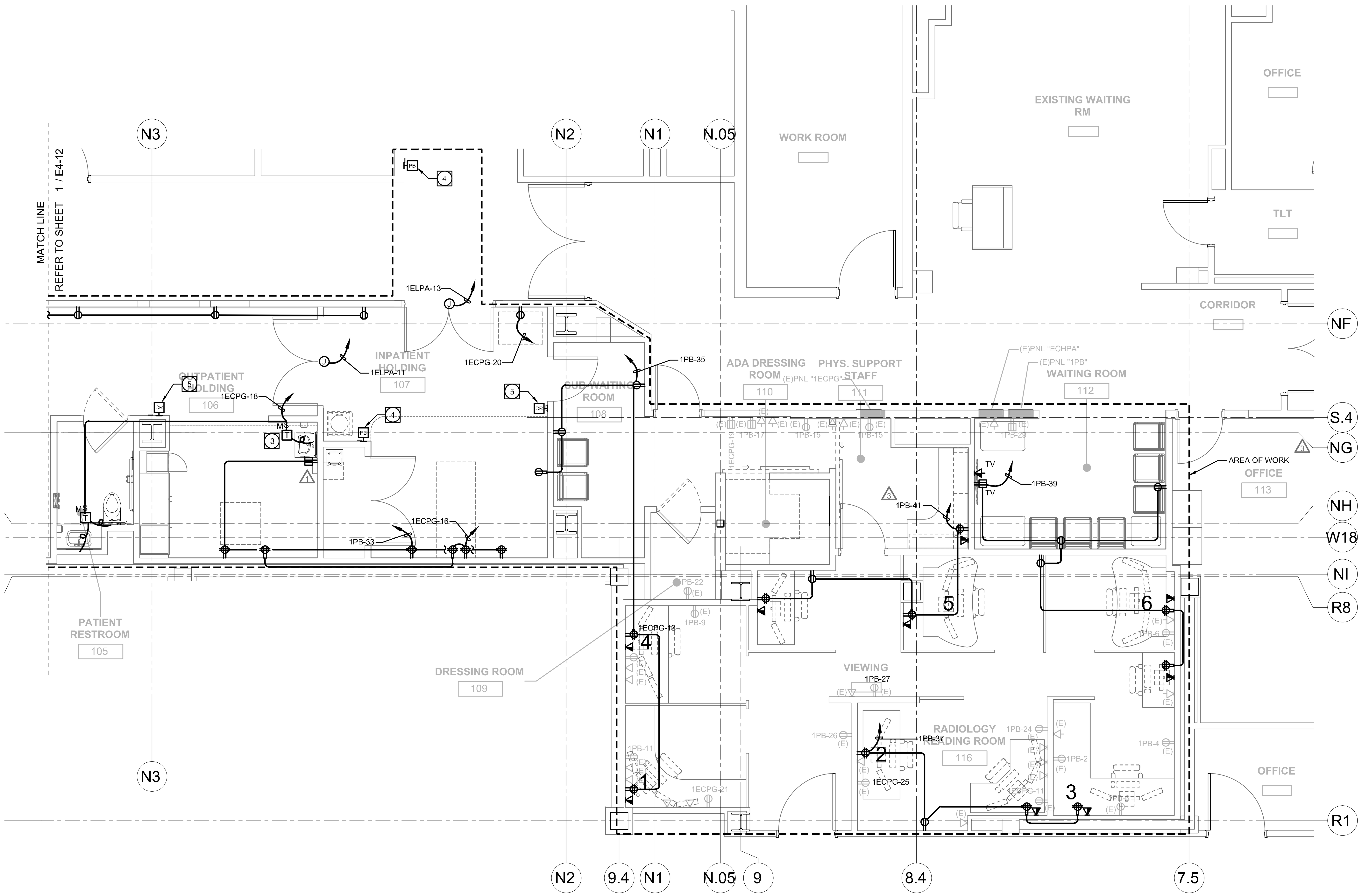


2 FIRST FLOOR PLAN - RESTROOM
1/4" = 1'-0"



1 FIRST FLOOR PLAN - EAST
1/4" = 1'-0"

KEYNOTES

1. CONTROL/LV TRANSFORMER FOR SINK AND/OR AUTOFLUSH VALVE AUTOMATIC CONTROLS INSTALLED ABOVE THE CEILING. CONTRACTOR TO PROVIDE ALL REQUIRED ELECTRICAL CONNECTIONS. TRANSFORMER PROVIDED AND INSTALLED BY OTHERS. COORDINATE LOCATION AND REQUIREMENTS PRIOR TO ROUGH-IN OF ELECTRICAL.
2. PROVIDE AND INSTALL "a,b" TOGGLE SWITCH TO CONTROL EXISTING RESTROOM LIGHTS. WIRE REPLACEMENT SWITCH INTO J-BOX DEMOLISHED SWITCH UTILIZED TO EXTEND/ROUTE SWITCH LEGS TO EXISTING FIXTURES. REWIRE EXISTING FIXTURE WITH SWITCHLEGS FROM REPLACEMENT SWITCH. COORDINATE REQUIREMENTS WITH FIELD CONDITIONS.
3. CONTROL/LV TRANSFORMER FOR SINK AND/OR AUTOFLUSH VALVE AUTOMATIC CONTROLS INSTALLED ABOVE THE CEILING. CONTRACTOR TO PROVIDE ALL REQUIRED ELECTRICAL CONNECTIONS. TRANSFORMER PROVIDED AND INSTALLED BY OTHERS. COORDINATE LOCATION AND REQUIREMENTS PRIOR TO ROUGH-IN OF ELECTRICAL.
4. PROVIDE AND INSTALL 4S FLUSH IN WALL J-BOX AND 3/4"C.O. WITH NYLON PULL ROPE TO ACCESSIBLE CEILING FOR INSTALLATION OF WAVE ACTIVATED AUTOMATIC DOOR CONTROLS. COORDINATE BACKBOX AND INSTALLATION REQUIREMENTS WITH VENDOR INSTALLATION GUIDES AND OTHER TRADES.
5. PROVIDE AND INSTALL SINGLE GANG FLUSH IN WALL J-BOX AND 3/4"C.O. WITH NYLON PULL ROPE TO ACCESSIBLE CEILING FOR INSTALLATION CARD READER ACCESS DOOR CONTROLS. COORDINATE BACKBOX AND INSTALLATION REQUIREMENTS WITH VENDOR INSTALLATION GUIDES AND OTHER TRADES.

GENERAL NOTES

1. ALL EMPTY CONDUIT ARE TO BE PROVIDED WITH AN ADEQUATELY SIZED NYLON PULL ROPE.
2. ELECTRICAL CONTRACTOR SHALL REFER TO MECHANICAL/PLUMBING AND ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND CHARACTERISTICS OF ALL EQUIPMENT LISTED IN SCHEDULE. ANY MODIFICATIONS AND/OR ADDITIONAL WORK NECESSARY SHALL BE INCLUDED IN THE BASE BID.
3. ELECTRICAL CONTRACTOR SHALL VERIFY THE LOCATION OF ALL CONNECTION POINTS WITH THE EQUIPMENT INSTALLER PRIOR TO ROUGH-IN.
4. ELECTRICAL CONTRACTOR SHALL PROVIDE LOCAL REMOTE DISCONNECTING MEANS FOR ALL ELECTRIC HEATING EQUIPMENT IF REQUIRED BY THE LOCAL ELECTRICAL CODE.
5. HOME-RUNS ONLY ARE REFERENCED ON PLANS. IN ADDITION CONDUIT PATHWAYS BETWEEN DEVICES ARE NOT INCLUDED TO PROVIDE THE INSTALLING CONTRACTOR THE FLEXIBILITY TO INSTALL ALL CONDUIT AND WIRE IN THE MOST EFFICIENT AND NEAT MANNER POSSIBLE. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL REQUIRED CONDUIT AND CONDUCTORS AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM. REFER TO COVER SHEET E0.01 FOR GENERAL BRANCH CIRCUIT SIZING AND REQUIREMENTS.
6. COORDINATE LOCATIONS AND MOUNTING HEIGHTS FOR ALL DEVICES IN CONTROL ROOM, EQUIPMENT ROOM AND PROCEDURE ROOM WITH VENDOR DRAWINGS AND ELEVATIONS PRIOR TO ROUGH-IN OF ELECTRICAL.
7. IN INSTANCES WHERE A BRANCH CIRCUIT IS REFERENCED MORE THAN ONCE ON A SEPARATE HOME-RUN, THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING A J-BOX ABOVE THE PANELBOARD TO CONSOLIDATE CIRCUITS INTO ONE (1) SINGLE BRANCH CIRCUIT CONNECTION BY SPLICING ALL CONDUCTORS TOGETHER AND ROUTING ONE (1) SINGLE CONDUIT AND GROUP OF BRANCH CIRCUIT CONDUCTORS FROM THE J-BOX TO THE ASSOCIATED TERMINATIONS WITHIN THE PANELBOARD.
8. ALL CONDUITS, FEEDERS, ETC. ARE TO BE EQUIPPED WITH A CODE SIZED GREEN GROUNDING CONDUCTOR.
9. CONTRACTOR IS TO PROVIDE AND INSTALL A 4S J-BOX ABOVE THE CEILING AT EACH RECEPTACLE/DEVICE LOCATION THEN EXTEND REQUIRED/PROPERLY SIZED CONDUIT AND WIRE FROM J-BOX AND TERMINATE AT EACH DEVICE. IT IS NOT PERMITTED TO CONNECT DEVICES WITHIN THE SAME AND/OR ADJACENT/DIFFERENT ROOMS.
10. NO MC AND/OR FLEX CONNECTIONS ARE PERMITTED FOR USE EXCEPT FOR WHEN CONNECTIONS ARE BEING MADE FROM A J-BOX TO A LIGHT FIXTURE OR OTHER SIMILAR DEVICE INSTALLED ABOVE THE CEILING. ALL OUTLETS/DEVICES INSTALLED WITHIN WALLS ARE TO BE CONNECTED WITH HARD PIPE EMT CONDUIT AND WIRE.

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TCMC MRI

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LICENSED ARCHITECT JOSEPH MICHEL SFEIR No. C 28543 REN. 1-31-23 STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER No. E 18589 12.31.2022 ELECTRICAL STATE OF CALIFORNIA

REV:	DESCRIPTION:	DATE:
1	OSHPD COMMENTS	8/3/2020
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3	OSHPD COMMENTS	10/2/2020
4	OSHPD COMMENTS	11/24/2020
5	DESIGN CHANGES	11/24/2020
6	ACD 0001 DESIGN CHANGES	4/14/2021
7	ACD 0001 DESIGN CHANGES	5/8/2021

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OSHPD APPROVAL STAMP:
OSHPD #: S200813-37-00-ACD0001

SHEET TITLE:
1/4" PARTIAL FLOOR PLAN

PROJECT TITLE:
TCMC MRI

PROJECT #: 01907.01/AGD 20-0001
DRAWN BY: STAFF
CHECKED BY: ARS
SCALE: PER TITLE
DATE: 03/11/2020
SHEET NUMBER: E4-11

06.17.2021_AGD ACD0001 w/ Del 6 & 7 Clouds

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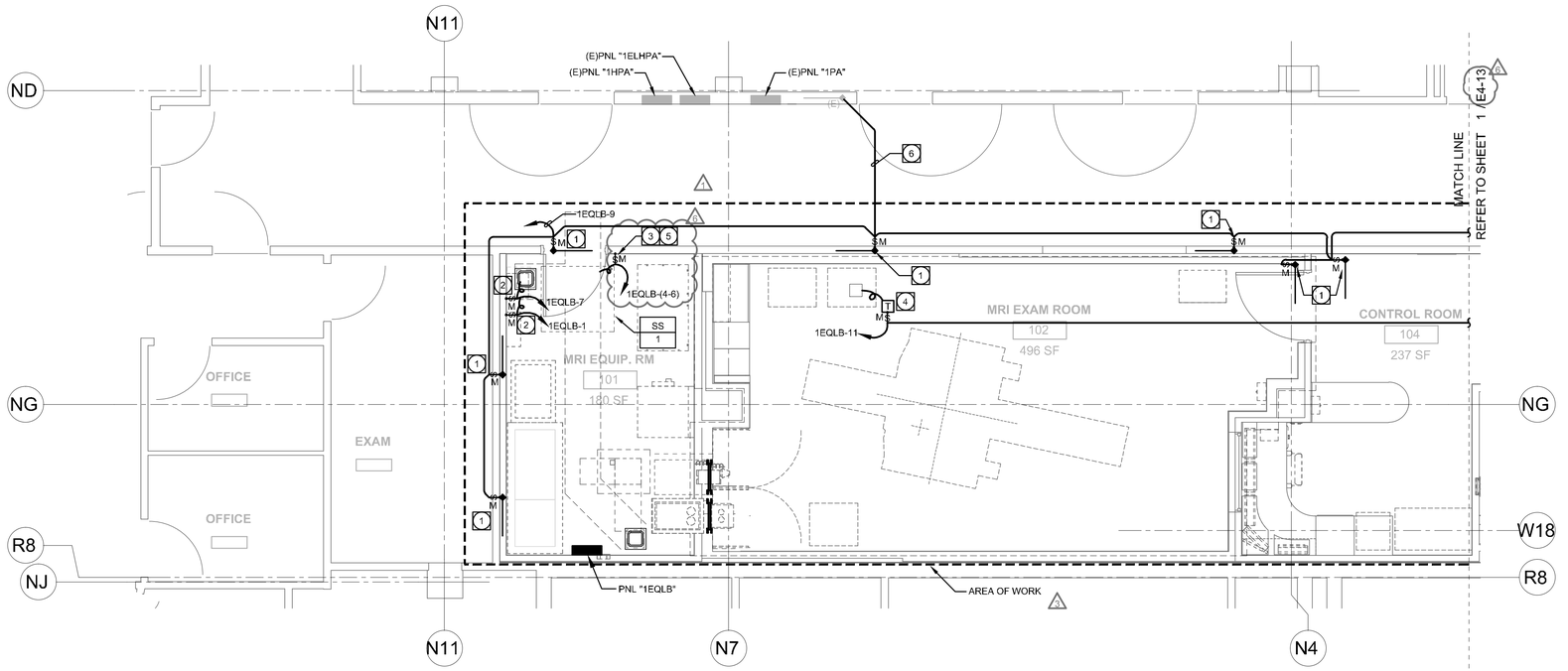

KEYNOTES

1. PROVIDE 20A/1P MOTOR RATED TOGGLE SWITCH WITH THERMAL OVERLOAD PROTECTION AND ELECTRICAL CONNECTION TO COMBINATION FIRE SMOKE DAMPER. COORDINATE LOCATION AND REQUIREMENTS WITH EXISTING FIELD CONDITIONS AND OTHER TRADES.
2. PROVIDE AND INSTALL 20A/1P MOTOR RATED TOGGLE SWITCH WITH THERMAL OVERLOAD PROTECTION AND CONNECTION TO HUMIDIFIER. COORDINATE LOCATION AND REQUIREMENTS WITH EXISTING FIELD CONDITIONS AND OTHER TRADES.
3. PROVIDE AND INSTALL 20A/2P-208V-1Ø MOTOR RATED TOGGLE SWITCH. COORDINATE MOUNTING LOCATION WITH MECHANICAL CONTRACTOR AND INSTALLATION REQUIREMENTS WITH FIELD CONDITIONS / MANUFACTURER'S NAMEPLATE DATA. DEVICE TO MOUNTED ON NEAREST ADJACENT VERTICAL SURFACE AND NOT ON THE UNIT ITSELF - MAINTAIN ALL CODE REQUIRED CLEARANCES.
4. 120V-1Ø TO 24V-1Ø 50VA TRANSFORMER FOR REHEAT CONTROLS. CONTRACTOR TO PROVIDE ALL REQUIRED ELECTRICAL CONNECTIONS, TRANSFORMER AND 120V-1Ø MOTOR RATED TOGGLE SWITCH. COORDINATE LOCATION AND REQUIREMENTS PRIOR TO ROUGH-IN OF ELECTRICAL.
5. INDOOR FAN COIL "S-1" IS EQUIPPED WITH AN INTEGRAL CONDENSATE PUMP THAT IS POWERED FROM THE FAN-COIL. CONTRACTOR TO COORDINATE CONNECTION REQUIREMENTS WITH EQUIPMENT INSTALLER AND VENDOR INSTALLATION GUIDES.
6. TIE DEVICE INTO EXISTING FIRE ALARM SYSTEM BY INTERCONNECTING WITH NEAREST EXISTING SMOKE FIRE DAMPER DEVICE. ON OPPOSITE SIDE OF HALL. INSTALL 1/2"C, 2#14. EXTEND AND CONNECT CONNECTIONS UTILIZING 1/2"C, ¾" TO ALL OTHER SMOKE FIRE DAMPERS INSTALLED WITH THIS SCOPE OF OWRK. COORDINATE REQUIREMENTS WITH EXISTING DEVICE LOCATIONS AND FIRE ALARM SYSTEM IN THE FIELD PRIOR TO PROCEEDING WITH WORK.

GENERAL NOTES

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2. ELECTRICAL CONTRACTOR SHALL REFER TO MECHANICAL-PLUMBING AND ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND CHARACTERISTICS OF ALL EQUIPMENT LISTED IN SCHEDULE. ANY MODIFICATIONS AND/OR ADDITIONAL WORK NECESSARY SHALL BE INCLUDED IN THE BASE BID.
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5. HOME-RUNS ONLY ARE REFERENCED ON PLANS. IN ADDITION CONDUIT PATHWAYS BETWEEN DEVICES ARE NOT INCLUDED TO PROVIDE THE INSTALLING CONTRACTOR THE FLEXIBILITY TO INSTALL ALL CONDUIT AND WIRE IN THE MOST EFFICIENT AND NEAT MANNER POSSIBLE. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL REQUIRED CONDUIT AND CONDUCTORS AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM. REFER TO COVER SHEET E0.01 FOR GENERAL BRANCH CIRCUIT SIZING AND REQUIREMENTS.
6. COORDINATE LOCATIONS AND MOUNTING HEIGHTS FOR ALL DEVICES IN CONTROL ROOM, EQUIPMENT ROOM AND PROCEDURE ROOM WITH VENDOR DRAWINGS AND ELEVATIONS PRIOR TO ROUGH-IN OF ELECTRICAL.
7. IN INSTANCES WHERE A BRANCH CIRCUIT IS REFERENCED MORE THAN ONCE ON A SEPARATE HOME-RUN, THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING A J-BOX ABOVE THE PANELBOARD TO CONSOLIDATE CIRCUITS INTO ONE (1) SINGLE BRANCH CIRCUIT CONNECTION BY SPLICING ALL CONDUCTORS TOGETHER AND ROUTING ONE (1) SINGLE CONDUIT AND GROUP OF BRANCH CIRCUIT CONDUCTORS FROM THE J-BOX TO THE ASSOCIATED TERMINATIONS WITHIN THE PANELBOARD.
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11. ALL CONDUIT, J-BOXES, 6'-0" FLEXIBLE CONNECTIONS TO FIXTURES, METALLIC PARTS, MOUNTING HARDWARD, ETC. INSTALLED WITHIN THE MRI ROOM ARE TO BE GROUNDED ALUMINUM CONDUITS. COORDINATE REQUIREMENTS WITH FIELD CONDITIONS PRIOR TO ROUGH-IN OF ELECTRICAL.

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REGISTERED PROFESSIONAL ENGINEER ARS No. E 18589 12.31.2022 ELECTRICAL STATE OF CALIFORNIA

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OSHPD APPROVAL STAMP:

OSHPD #: S200813-37-00-ACD0001

SHEET TITLE:

1/4" PARTIAL FLOOR PLAN - MECHANICAL

PROJECT TITLE:

TCMC MRI

PROJECT #: 01907.01/AGD 20-0001
DRAWN BY: STAFF
CHECKED BY: ARS
SCALE: PER TITLE
DATE: 03/11/2020

SHEET NUMBER: E4-12

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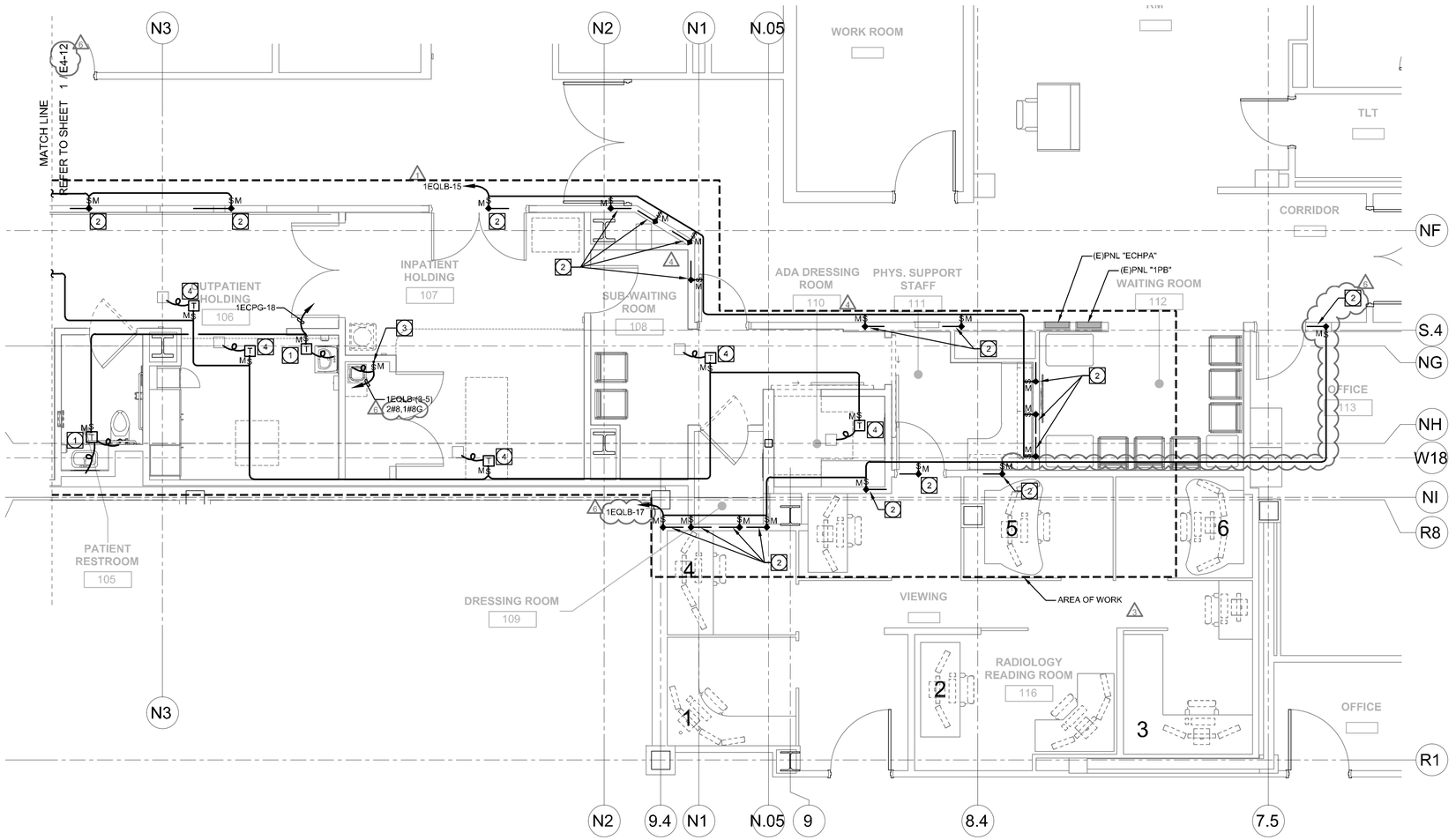

1 FIRST FLOOR PLAN - EAST
1/4" = 1'-0"

KEYNOTES

1. CONTROL/LV TRANSFORMER FOR SINK AND/OR AUTOFLUSH VALVE AUTOMATIC CONTROLS INSTALLED ABOVE THE CEILING. CONTRACTOR TO PROVIDE ALL REQUIRED ELECTRICAL CONNECTIONS. TRANSFORMER PROVIDED AND INSTALLED BY OTHERS. COORDINATE LOCATION AND REQUIREMENTS PRIOR TO ROUGH-IN OF ELECTRICAL.
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4. 120V-1Ø TO 24V-1Ø 50VA TRANSFORMER FOR REHEAT CONTROLS. CONTRACTOR TO PROVIDE ALL REQUIRED ELECTRICAL CONNECTIONS, TRANSFORMER AND 120V-1Ø MOTOR RATED TOGGLE SWITCH. COORDINATE LOCATION AND REQUIREMENTS PRIOR TO ROUGH-IN OF ELECTRICAL.

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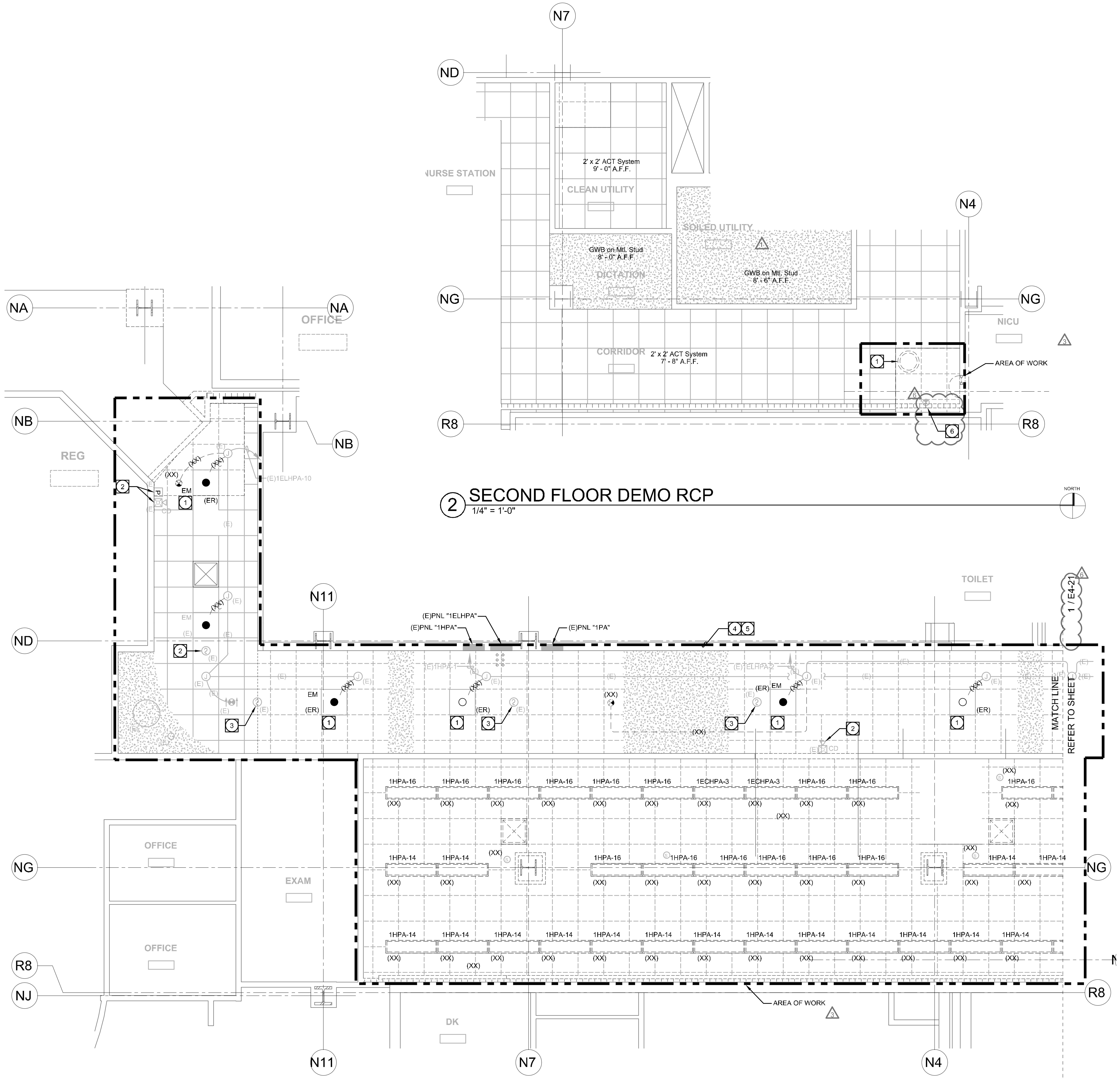

2 SECOND FLOOR DEMO RCP
1/4" = 1'-0"

1 FIRST FLOOR DEMO RCP - WEST
1/4" = 1'-0"

KEYNOTES

1. EXISTING LIGHTING FIXTURE TO BE CAREFULLY REMOVED AND STORED FOR RE-INSTALLATION DURING REMODEL PHASE. EXISTING ELECTRICAL CONNECTIONS ARE TO BE SAFED OFF IN THE NEAREST J-BOX. COORDINATE REQUIREMENTS WITH EXISTING FIELD CONDITIONS AND OTHER TRADES PRIOR TO COMMENCEMENT OF WORK.
2. EXISTING FIRE ALARM DEVICE TO BE PROTECTED IN PLACE AND OPERATIONAL.
3. EXISTING FIRE ALARM DEVICE TO BE REMOVED AND STORED FOR RE-USE/RE-INSTALLATION IN SAME LOCATION UPON COMPLETION OF REMODEL SCOPE. ALL EXISTING CONDUCTORS AND CONNECTIONS ARE TO BE SAFED OFF BACK TO THE NEAREST J-BOX OR DEVICE AND PROTECTED IN PLACE FOR FUTURE RECONNECTION. COORDINATION REQUIREMENTS WITH FIELD CONDITIONS AND OTHER TRADES AS REQUIRED.
4. AS PART OF THE CONTRACTOR'S SCOPE OF SERVICES A THOROUGH AND COMPREHENSIVE AS-BUILT DOCUMENTATION PROCESS OF ALL EXISTING ELECTRICAL DEVICE LOCATIONS, TYPES, ETC. AND ALL BRANCH CIRCUITING IS REQUIRED TO BE PERFORMED PRIOR TO COMMENCEMENT OF DEMOLITION SCOPE OF WORK. WORK IS TO BE PERFORMED AFTER HOURS AND IN A MANNER WHICH MINIMIZES THE IMPACT TO EXISTING HOSPITAL FUNCTIONS.
5. CONTRACTOR IS RESPONSIBLE FOR SAFE-OFF AND DEMOLITION OF ALL EXISTING ELECTRICAL OUTLETS, RECEPTACLES, POWER CONNECTIONS, ETC. AS NOTED/IDENTIFIED TO BE DEMOLISHED AND REMOVED COMPLETE WITH AN "(XX)". TRACE ALL EXISTING CIRCUIT BACK TO NEAREST PANEL PRIOR TO DEMOLITION. UPDATE ALL PANEL DIRECTORIES AS REQUIRED REFERENCING SPARES AND ANY OTHER PERTINENT UPDATES WHICH RESULT FROM THE DEMOLITION. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ELECTRICAL CONTINUITY TO DEVICES, EQUIPMENT, LIGHTING FIXTURES, ETC. WHICH ARE EXISTING TO REMAIN IN ADJACENT SPACES.
6. EXISTING LOW-LEVEL SELF-LUMINOUS EXIT SIGN. CONTRACTOR TO REMOVE FROM WALL, SAFELY STORE DURING CONSTRUCTION AND RE-INSTALL IN SAFE LOCATION ON FACE OF QUENCH VENT SHAFT TO BE INSTALLED WITH THIS SCOPE OF WORK. COORDINATE REQUIREMENTS WITH EXISTING FIELD CONDITIONS AND OTHER TRADES AS REQUIRED.

DEMOLITION NOTES

A. EXISTING ITEMS SCHEDULED TO REMAIN SHALL BE PROTECTED IN PLACE AND MAINTAINED BY THE CONTRACTOR. DAMAGE TO EXISTING EQUIPMENT, STRUCTURES, SYSTEMS AND SERVICES ARE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE RESTORED OR REPLACED TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE AT THE CONTRACTOR'S EXPENSE.

B. ITEMS SCHEDULED TO BE DEMOLISHED SHALL BE DISPOSED OF BY THE CONTRACTOR.

C. UTILITIES PREVIOUSLY SERVING DEMOLISHED ITEMS SHALL BE CAPPED BEHIND ADJACENT FINISHED SURFACES UNLESS OTHERWISE DIRECTED IN THE CONTRACT DOCUMENTS. SEE MECHANICAL AND ELECTRICAL.

D. DAMAGED OR PREVIOUSLY UNFINISHED SURFACES SHALL BE RESTORED, PATCHED OR FINISHED TO MATCH ADJACENT FINISHED SURFACES.

E. THE DEMOLITION PLAN AND NOTES ARE PRESENTED AS GENERAL INFORMATION ONLY AND ARE NOT INTENDED TO REPRESENT A COMPREHENSIVE ACCOUNTING OF ALL CONDITIONS PRESENT AT THE PROJECT SITE. THE CONTRACTOR IS RESPONSIBLE FOR PREPARING THE SITE AS REQUIRED TO COMPLETE THE CONSTRUCTION OF THE FINISHED PROJECT AS DESIGNED AND DETAILED IN THE CONTRACT DOCUMENTS. DESIGN IS BASED ON OF AS-BUILT DOCUMENTS AND VISUAL SITE SURVEYS. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXISTING CONDITIONS, CIRCUITING, CONDUIT ROUTING, ETC. WITH EXISTING FIELD CONDITIONS PRIOR TO AND THROUGHOUT DEMO/CONSTRUCTION.

DEMOLITION ABBREVIATIONS:

E	=	EXISTING DEVICE, EQUIPMENT, WIRING PATH, ETC. TO REMAIN UNDISTURBED. CONTRACTOR IS TO ENSURE DEVICE IS PROTECTED IN PLACE AND UNDAMAGED DURING DEMOLITION/REMODEL SCOPE OF WORK.
XX	=	EXISTING DEVICE, EQUIPMENT, WIRING PATH, ETC. TO BE DEMOLISHED AND REMOVED COMPLETE. CONTRACTOR IS RESPONSIBLE FOR ENSURING CONTINUITY OF CIRCUIT TO ALL DEVICES WHICH ARE EXISTING TO REMAIN AND CONNECTED TO THE SAME CIRCUIT. CONTRACTOR TO PATCH AND REPAIR SURFACE TO MATCH EXISTING ONCE DEVICE HAS BEEN REMOVED. FIELD COORDINATE REQUIREMENTS WITH EXISTING CONDITIONS AND DEMOLITION SCOPE OF WORK.

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TCMC MRI

Tri-City Medical Center

4002 VISTA WAY
OCEANSIDE CA, 92056

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LICENSED ARCHITECT – JOSEPH MICHEL SFEIR – No. C 28543 – REN. 1-31-23 – STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER – ADAM SLOAN – No. E 18589 – 12.31.2022 – ELECTRICAL – STATE OF CALIFORNIA

REV:	DESCRIPTION:	DATE:
1	OSHPD COMMENTS	8/3/2020
2	DESIGN CHANGES	8/10/2020
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SHEET TITLE:
1/4" PARTIAL DEMO RCP

PROJECT TITLE:
TCMC MRI

PROJECT #: 01907.01/AGD 20-0001
SHEET NUMBER: E4-20
DRAWN BY: STAFF
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06.17.2021_AGD ACD0001 w/ Del 6 & 7 Clouds

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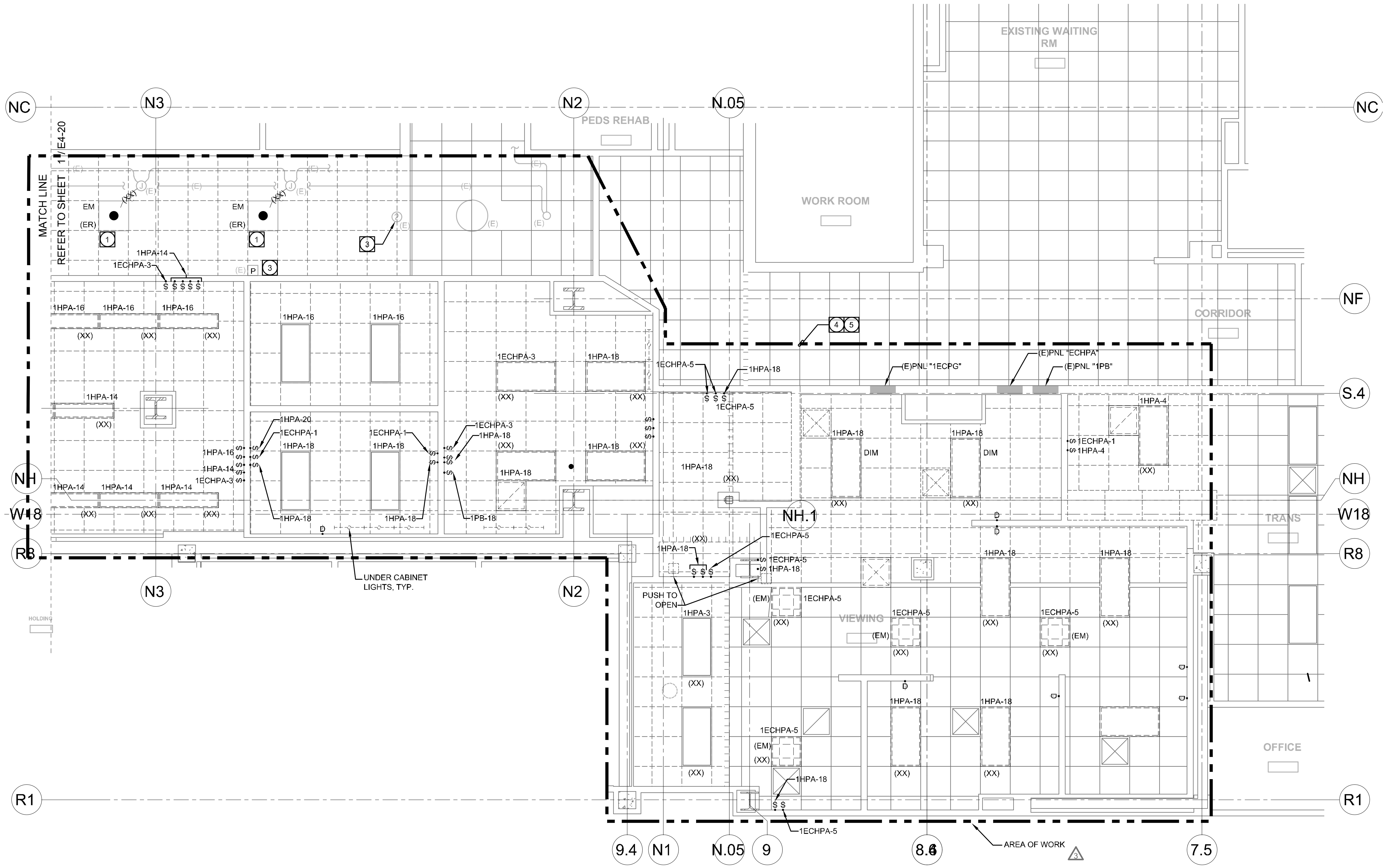

1 FIRST FLOOR DEMO RCP - EAST

1/4" = 1'-0"

KEYNOTES

1. EXISTING LIGHTING FIXTURE TO BE CAREFULLY REMOVED AND STORED FOR RE-INSTALLATION DURING REMODEL PHASE. EXISTING ELECTRICAL CONNECTIONS ARE TO BE SAFED OFF IN THE NEAREST J-BOX. COORDINATE REQUIREMENTS WITH EXISTING FIELD CONDITIONS AND OTHER TRADES PRIOR TO COMMENCEMENT OF WORK.
2. EXISTING FIRE ALARM DEVICE TO BE PROTECTED IN PLACE AND OPERATIONAL.
3. EXISTING FIRE ALARM DEVICE TO BE REMOVED AND STORED FOR RE-USE/RE-INSTALLATION IN SAME LOCATION UPON COMPLETION OF REMODEL SCOPE. ALL EXISTING CONDUCTORS AND CONNECTIONS ARE TO BE SAFED OFF BACK TO THE NEAREST J-BOX OR DEVICE AND PROTECTED IN PLACE FOR FUTURE RECONNECTION. COORDINATION REQUIREMENTS WITH FIELD CONDITIONS AND OTHER TRADES AS REQUIRED.
4. AS PART OF THE CONTRACTOR'S SCOPE OF SERVICES A THOROUGH AND COMPREHENSIVE AS-BUILT DOCUMENTATION PROCESS OF ALL EXISTING ELECTRICAL DEVICE LOCATIONS, TYPES, ETC. AND ALL BRANCH CIRCUITING IS REQUIRED TO BE PERFORMED PRIOR TO COMMENCEMENT OF DEMOLITION SCOPE OF WORK. WORK IS TO BE PERFORMED AFTER HOURS AND IN A MANNER WHICH MINIMIZES THE IMPACT TO EXISTING HOSPITAL FUNCTIONS.
5. CONTRACTOR IS RESPONSIBLE FOR SAFE-OFF AND DEMOLITION OF ALL EXISTING ELECTRICAL OUTLETS, RECEPTACLES, POWER CONNECTIONS, ETC. AS NOTED/IDENTIFIED TO BE DEMOLISHED AND REMOVED COMPLETE WITH AN "(XX)". TRACE ALL EXISTING CIRCUIT BACK TO NEAREST PANEL PRIOR TO DEMOLITION. UPDATE ALL PANEL DIRECTORIES AS REQUIRED REFERENCING SPARES AND ANY OTHER PERTINENT UPDATES WHICH RESULT FROM THE DEMOLITION. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ELECTRICAL CONTINUITY TO DEVICES, EQUIPMENT, LIGHTING FIXTURES, ETC. WHICH ARE EXISTING TO REMAIN IN ADJACENT SPACES.

DEMOLITION NOTES

A. EXISTING ITEMS SCHEDULED TO REMAIN SHALL BE PROTECTED IN PLACE AND MAINTAINED BY THE CONTRACTOR. DAMAGE TO EXISTING EQUIPMENT, STRUCTURES, SYSTEMS AND SERVICES ARE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE RESTORED OR REPLACED TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE AT THE CONTRACTOR'S EXPENSE.

B. ITEMS SCHEDULED TO BE DEMOLISHED SHALL BE DISPOSED OF BY THE CONTRACTOR.

C. UTILITIES PREVIOUSLY SERVING DEMOLISHED ITEMS SHALL BE CAPPED BEHIND ADJACENT FINISHED SURFACES UNLESS OTHERWISE DIRECTED IN THE CONTRACT DOCUMENTS. SEE MECHANICAL AND ELECTRICAL.

D. DAMAGED OR PREVIOUSLY UNFINISHED SURFACES SHALL BE RESTORED, PATCHED OR FINISHED TO MATCH ADJACENT FINISHED SURFACES.

E. THE DEMOLITION PLAN AND NOTES ARE PRESENTED AS GENERAL INFORMATION ONLY AND ARE NOT INTENDED TO REPRESENT A COMPREHENSIVE ACCOUNTING OF ALL CONDITIONS PRESENT AT THE PROJECT SITE. THE CONTRACTOR IS RESPONSIBLE FOR PREPARING THE SITE AS REQUIRED TO COMPLETE THE CONSTRUCTION OF THE FINISHED PROJECT AS DESIGNED AND DETAILED IN THE CONTRACT DOCUMENTS. DESIGN IS BASED ON OF AS-BUILT DOCUMENTS AND VISUAL SITE SURVEYS. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXISTING CONDITIONS, CIRCUITING, CONDUIT ROUTING, ETC. WITH EXISTING FIELD CONDITIONS PRIOR TO AND THROUGHOUT DEMO/CONSTRUCTION.

DEMOLITION ABBREVIATIONS:

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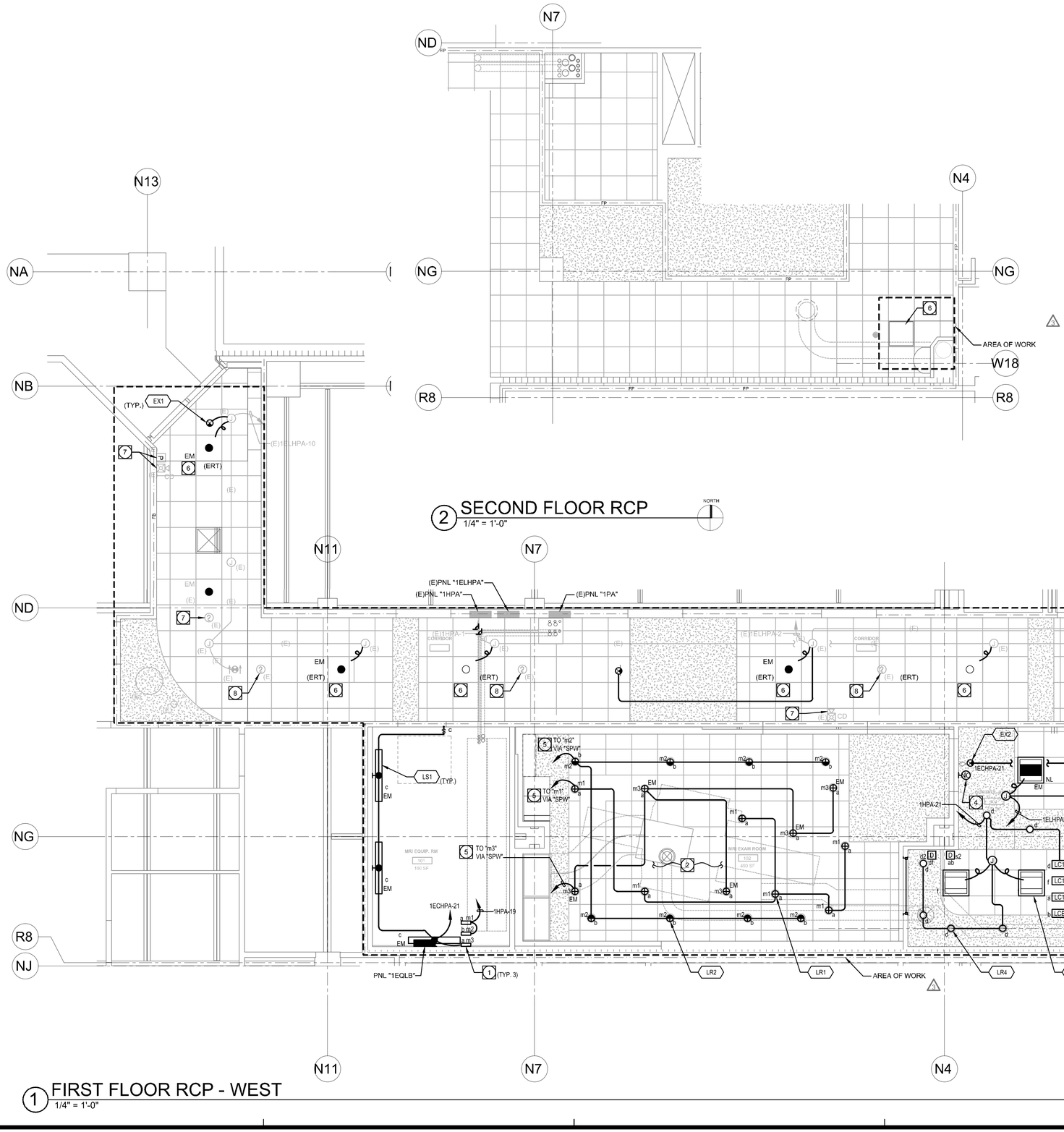

2 SECOND FLOOR RCP
1/4" = 1'-0"

1 FIRST FLOOR RCP - WEST
1/4" = 1'-0"

KEYNOTES

1. PROVIDE AND INSTALL KENALL #MRIPS-312 24V POWER SUPPLY TO PROVIDE POWER TO FIXTURES INSTALLED WITHIN THE MRI ROOM. THE "M" (WHERE THE * REPRESENTS THE DEVICE NUMBER) CORRESPONDS TO THE FIXTURE(S) WITHIN THE SPACE WHICH ARE TO BE WIRED TO THE SPECIFIC POWER SUPPLY. EACH 24V CIRCUIT IS TO BE ROUTED THROUGH AN RF FILTER ALSO INSTALLED WITHIN THE CONTROL ROOM BEFORE BEING ROUTED TO THE FIXTURES WITHIN THE SPACE. ALL LOW VOLTAGE WIRING IS TO BE SHIELDED. ROUTE (1)1/2" ALUMINUM CONDUIT. 2#12,1#12G FROM EACH POWER SUPPLY TO THE RESPECTIVE FIXTURES. COORDINATE FIELD REQUIREMENTS WITH EQUIPMENT VENDOR AND FIELD CONDITIONS.
2. ALL 0-10V LIGHTING CONTROL WIRING FOR FIXTURES INSTALLED IN MRI SCAN ROOM IS TO BE ROUTED IN A 2"C ABOVE THE SHIELDING FROM LIGHTING CONTROL RELAY INSTALLED ABOVE THE CONTROL ROOM CEILING TO THE KENALL POWER SUPPLY IN THE EQUIPMENT ROOM. COORDINATE ROUTING AND REQUIREMENTS WITH FIELD CONDITIONS AND VENDOR REQUIREMENTS.
3. PROVIDE AND INSTALL "4S" BACK-BOX FOR INSTALLATION OF CEILING MOUNTED NURSE CALL DEVICE. COORDINATE REQUIREMENTS WITH DESIGN BUILD NURSE CALL CONTRACTOR SCOPE OF WORK PRIOR TO ROUGH-IN OF ELECTRICAL.
4. PROVIDE AND INSTALL "2S" BACK-BOX AND 3/4"C.O. TO ACCESSIBLE CEILING FOR INSTALLATION OF NURSE CALL WALL MOUNTED DEVICE. CONDUIT TO BE EQUIPPED WITH A NYLON PULL STRING AND PROTECTIVE BUSHING. COORDINATE REQUIREMENTS WITH DESIGN BUILD NURSE CALL CONTRACTOR SCOPE OF WORK PRIOR TO ROUGH-IN OF ELECTRICAL.
5. DIMMING CIRCUIT TO BE ROUTED THROUGH KENALL "MRIFD-1A" DIMMING RF FILTER. FILTER TO BE INSTALLED AT NEAREST POINT OF EXIT OF DIMMING CIRCUIT FROM THE MRI ROOM. COORDINATE ROUTING AND REQUIREMENTS WITH FIELD CONDITIONS, OTHER TRADES AND EQUIPMENT VENDOR AS REQUIRED.
6. EXISTING FIXTURE REMOVED/STORED DEMOLITION PHASE TO BE RE-INSTALLED IN THE SAME LOCATION. EXTEND AND RE-CONNECT EXISTING CIRCUITS/CONNECTIONS SAFED OFF DURING THE DEMOLITION PHASE. COORDINATE REQUIREMENTS WITH FIELD CONDITIONS AND OTHER TRADES AS REQUIRED.
7. EXISTING FIRE ALARM DEVICE TO BE PROTECTED IN PLACE AND OPERATIONAL.
8. EXISTING FIRE ALARM DEVICE TO BE REMOVED AND STORED FOR RE-USE/RE-INSTALLATION IN SAME LOCATION UPON COMPLETION OF REMODEL SCOPE. ALL EXISTING CONDUCTORS AND CONNECTIONS ARE TO BE SAFED OFF BACK TO THE NEAREST J-BOX OR DEVICE AND PROTECTED IN PLACE FOR FUTURE RECONNECTION. COORDINATION REQUIREMENTS WITH FIELD CONDITIONS AND OTHER TRADES AS REQUIRED.

GENERAL NOTES

1. ALL EMPTY CONDUIT ARE TO BE PROVIDED WITH AN ADEQUATELY SIZED NYLON PULL ROPE.
2. ELECTRICAL CONTRACTOR SHALL REFER TO MECHANICAL/PLUMBING AND ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND CHARACTERISTICS OF ALL EQUIPMENT LISTED IN SCHEDULE. ANY MODIFICATIONS AND/OR ADDITIONAL WORK NECESSARY SHALL BE INCLUDED IN THE BASE BID.
3. ELECTRICAL CONTRACTOR SHALL VERIFY THE LOCATION OF ALL CONNECTION POINTS WITH THE EQUIPMENT INSTALLER PRIOR TO ROUGH-IN.
4. ELECTRICAL CONTRACTOR SHALL PROVIDE LOCAL REMOTE DISCONNECTING MEANS FOR ALL ELECTRIC HEATING EQUIPMENT IF REQUIRED BY THE LOCAL ELECTRICAL CODE.
5. HOME-RUNS ONLY ARE REFERENCED ON PLANS. IN ADDITION CONDUIT PATHWAYS BETWEEN DEVICES ARE NOT INCLUDED TO PROVIDE THE INSTALLING CONTRACTOR THE FLEXIBILITY TO INSTALL ALL CONDUIT AND WIRE IN THE MOST EFFICIENT AND NEAT MANNER POSSIBLE. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL REQUIRED CONDUIT AND CONDUCTORS AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM. REFER TO COVER SHEET E0-00 FOR GENERAL BRANCH CIRCUIT SIZING AND REQUIREMENTS.
6. COORDINATE LOCATIONS AND MOUNTING HEIGHTS FOR ALL DEVICES IN CONTROL ROOM, EQUIPMENT ROOM AND PROCEDURE ROOM WITH VENDOR DRAWINGS AND ELEVATIONS PRIOR TO ROUGH-IN OF ELECTRICAL.
7. IN INSTANCES WHERE A BRANCH CIRCUIT IS REFERENCED MORE THAN ONCE ON A SEPARATE HOME-RUN, THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING A 4S J-BOX ABOVE THE PANELBOARD TO CONSOLIDATE CIRCUITS INTO ONE (1) SINGLE BRANCH CIRCUIT CONNECTION BY SPLICING ALL CONDUCTORS TOGETHER AND ROUTING ONE (1) SINGLE CONDUIT AND GROUP OF BRANCH CIRCUIT CONDUCTORS FROM THE J-BOX TO THE ASSOCIATED TERMINATIONS WITHIN THE PANELBOARD.
8. ALL CONDUITS, FEEDERS, ETC. ARE TO BE EQUIPPED WITH A CODE SIZED GREEN GROUNDING CONDUCTOR.
9. CONTRACTOR IS TO PROVIDE AND INSTALL A 4S J-BOX ABOVE THE CEILING AT EACH RECEPTACLE/DEVICE LOCATION THEN EXTEND REQUIRED/PROPERLY SIZED CONDUIT AND WIRE FROM J-BOX AND TERMINATE AT EACH DEVICE. IT IS NOT PERMITTED TO CONNECT DEVICES WITHIN THE SAME AND/OR ADJACENT/DIFFERENT ROOMS.
10. NO MC AND/OR FLEX CONNECTIONS ARE PERMITTED FOR USE EXCEPT FOR WHEN CONNECTIONS ARE BEING MADE FROM A J-BOX TO A LIGHT FIXTURE OR OTHER SIMILAR DEVICE INSTALLED ABOVE THE CEILING. ALL OUTLETS/DEVICES INSTALLED WITHIN WALLS ARE TO BE CONNECTED WITH HARD PIPE EMT CONDUIT AND WIRE.
11. ALL CONDUIT, J-BOXES, 6'-0" FLEXIBLE CONNECTIONS TO FIXTURES, METALLIC PARTS, MOUNTING HARDWARD, ETC. INSTALLED WITHIN THE MRI ROOM ARE TO BE GROUNDED ALUMINUM CONDUITS. COORDINATE REQUIREMENTS WITH FIELD CONDITIONS PRIOR TO ROUGH-IN OF ELECTRICAL.

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REGISTERED PROFESSIONAL ENGINEER ANDREW R. SMITH No. E 18589 12.31.2022 ELECTRICAL STATE OF CALIFORNIA

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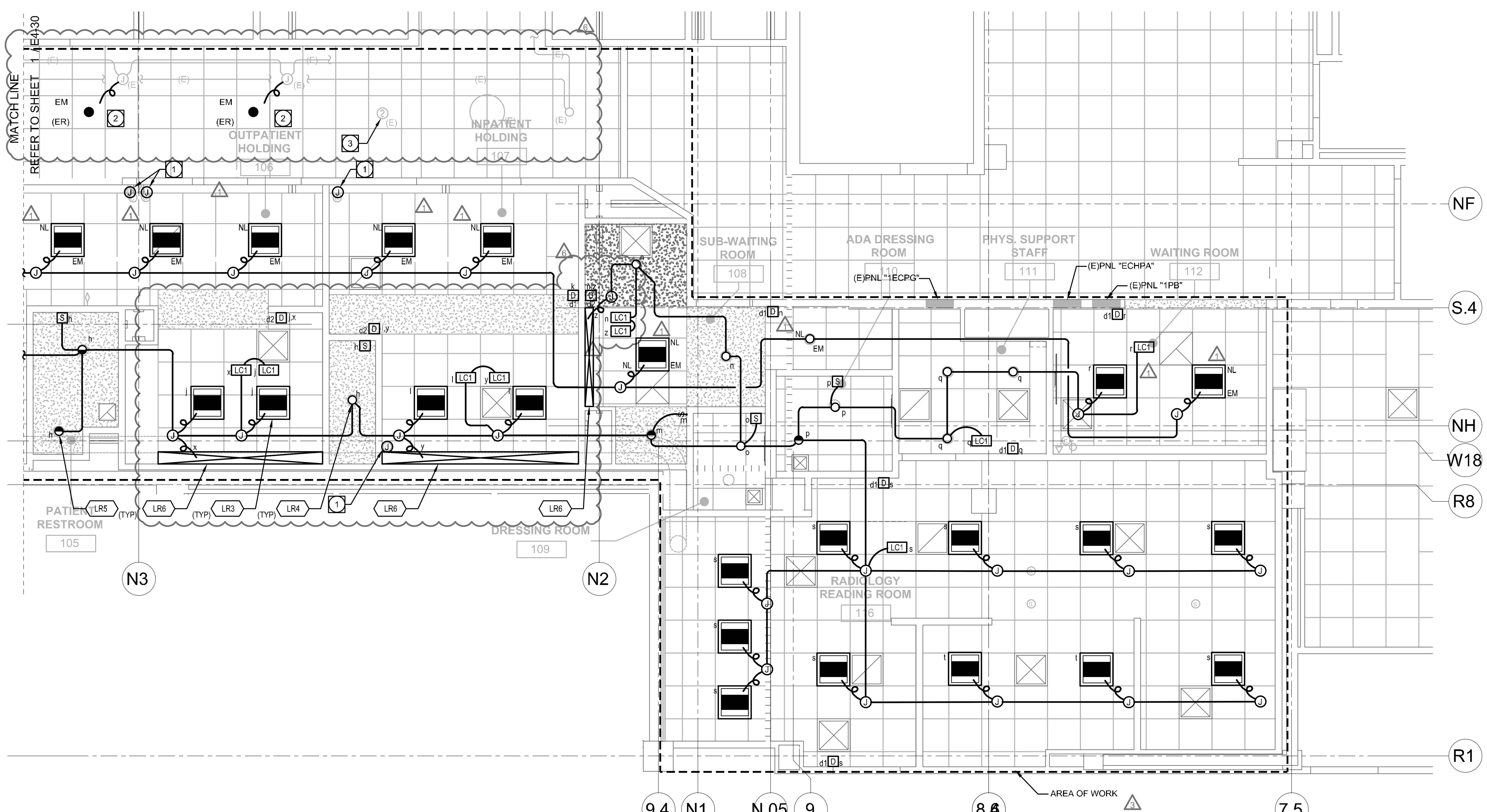

1 FIRST FLOOR RCP - EAST
1/4" = 1'-0"

KEYNOTES

1. INSTALL SINGLE-GANG J-BOX AND 1-1/4"C.O. WITH NYLON PULL STRINGS AND PROTECTIVE BUSHINGS FROM INDOOR SECURITY CAMERA TO NEAREST SECURITY CAMERA HUB. SECURITY CAMERA IS TO BE INSTALLED IN A TAMPER PROOF HOUSING. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL COMPONENTS INCLUDING BUT NOT LIMITED TO THE CAMERA, CABLING, MOUNTING EQUIPMENT NECESSARY FOR A COMPLETE AND FULLY FUNCTIONAL CCTV SYSTEM. COORDINATE LOCATION AND REQUIREMENTS WITH FACILITY PRIOR TO ROUGH-IN OF ELECTRICAL.
2. EXTEND AND RECONNECT EXISTING WIRING SAFED-OFF DURING DEMO SCOPE AND RECONNECT TO FIXTURE RE-INSTALLED IN NOTED LOCATIONS. REFER TO E4-21 FOR ADDITIONAL INFORMATION. COORDINATE REQUIREMENTS WITH EXISTING FIELD CONDITIONS AND OTHER TRADES AS REQUIRED.
3. RE-INSTALL EXISTING SMOKE DETECTOR REMOVED/STORED DURING DEMO PHASE. RECONNECT TO EXISTING WIRING SAFED-OFF DURING DEMO PHASE.REFER TO E4-21 FOR ADDITIONAL INFORMATION. COORDINATE REQUIREMENTS WITH EXISTING FIELD CONDITIONS AND OTHER TRADES AS REQUIRED.

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4. ELECTRICAL CONTRACTOR SHALL PROVIDE LOCAL REMOTE DISCONNECTING MEANS FOR ALL ELECTRIC HEATING EQUIPMENT IF REQUIRED BY THE LOCAL ELECTRICAL CODE.
5. HOME-RUNS ONLY ARE REFERENCED ON PLANS. IN ADDITION CONDUIT PATHWAYS BETWEEN DEVICES ARE NOT INCLUDED TO PROVIDE THE INSTALLING CONTRACTOR THE FLEXIBILITY TO INSTALL ALL CONDUIT AND WIRE IN THE MOST EFFICIENT AND NEAT MANNER POSSIBLE. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL REQUIRED CONDUIT AND CONDUCTORS AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM. REFER TO COVER SHEET E0-00 FOR GENERAL BRANCH CIRCUIT SIZING AND REQUIREMENTS.
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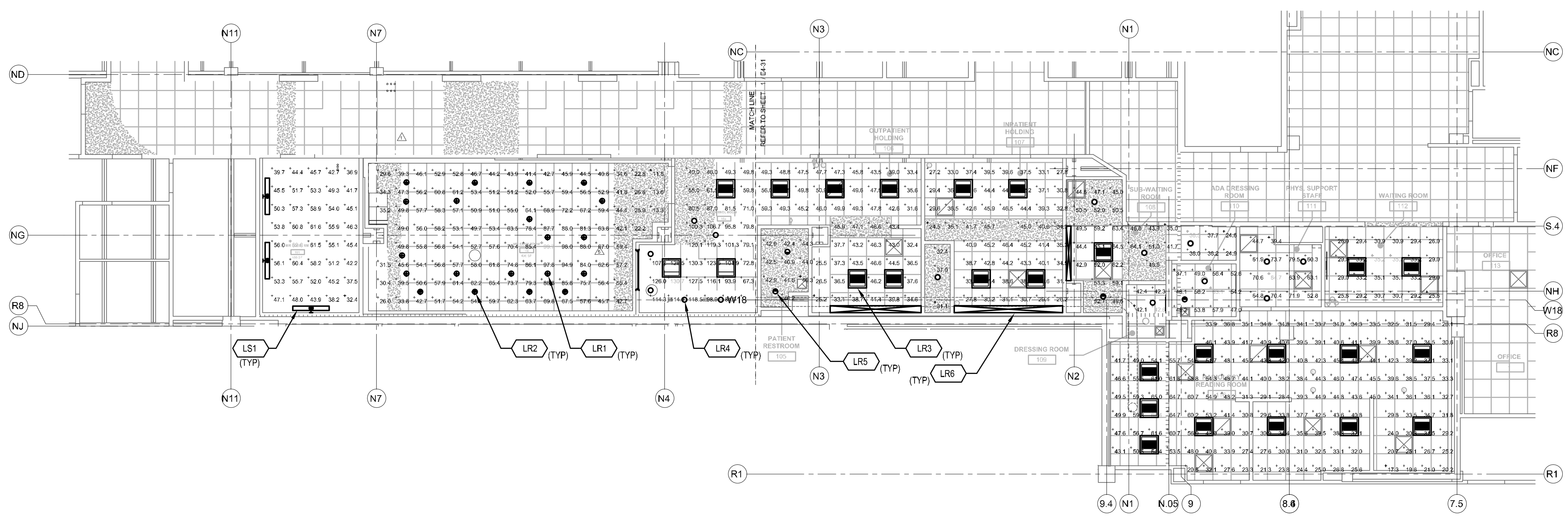
Schedule			
Label	Lumens Per Lamp	Light Loss Factor	Wattage
LR3	3920	0.9	35
LS1	4682	0.9	41.44
LR1	151	0.9	37
LR2	132	0.9	37
LS2	4559	0.9	34.31
LR4	2707	0.9	34.75
LR5	2647	0.9	0.8829

Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
DRESSING ROOM 109	+	42.3 fc	42.6 fc	42.1 fc	1.0:1	1.0:1
DRESSING ROOM 110	+	52.0 fc	63.1 fc	37.1 fc	1.7:1	1.4:1
HALLWAY 103/ CONTROL 104/ HOLDING RM 105	+	64.0 fc	130.7 fc	25.2 fc	5.2:1	2.5:1
MRI EQUIP. RM. 101	+	49.9 fc	62.0 fc	32.4 fc	1.9:1	1.5:1
MRI EXAM RM. 102	+	55.8 fc	99.7 fc	11.8 fc	8.4:1	4.7:1
PATIENT RESTROOM 105	+	43.1 fc	46.6 fc	40.3 fc	1.2:1	1.1:1
PHYS. SUPPORT STAFF 11	+	65.8 fc	84.7 fc	39.4 fc	2.1:1	1.7:1
RAIDIOLOGY READING ROOM 116	+	39.7 fc	65.4 fc	17.3 fc	3.8:1	2.3:1
STORAGE 107	+	34.4 fc	37.1 fc	31.1 fc	1.2:1	1.1:1
SUB-WAITING RM. 108	+	51.6 fc	65.0 fc	35.0 fc	1.9:1	1.5:1
SUB-WAITING ROOM 108	+	33.6 fc	38.3 fc	24.6 fc	1.6:1	1.4:1
TRANSFER RM. 107	+	37.5 fc	46.7 fc	24.5 fc	1.9:1	1.5:1
WAITING ROOM 112	+	30.6 fc	35.2 fc	25.8 fc	1.4:1	1.2:1

NOTE: STANDARD IES RECOMMENDED REFLECTANCE WERE UTILIZED IN CALCULATION: 50% CEILING, 80% AND 10% FLOOR. FIXTURES ARE MOUNTED RECESSED BASED - CEILING HEIGHTS REFERENCED ON PLANS. LIGHT LOSS FACTOR OF 0.9 WAS UTILIZED AS NOTED IN FIXTURE SCHEDULE.



1 FIRST FLOOR RCP - PHOTOMETRIC PLAN
1/8" = 1'-0"

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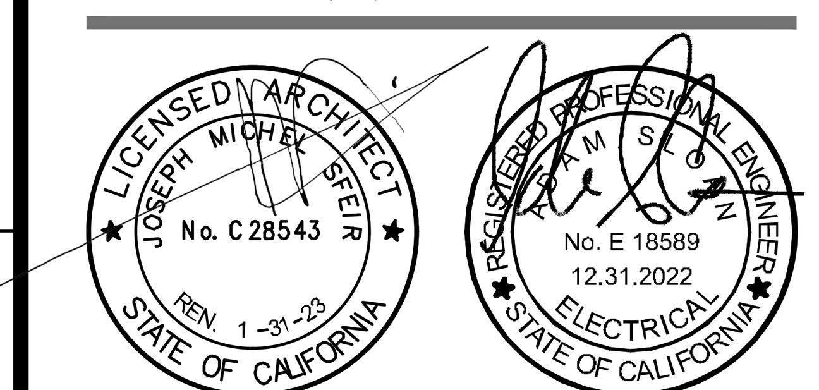

REV.	DESCRIPTION:	DATE:
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2	DESIGN CHANGES	8/10/2020
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4	OSHPD COMMENTS	11/24/2020
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6	ACD 0001 DESIGN CHANGES	4/14/2021
7	ACD 0001 DESIGN CHANGES	5/8/2021

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OSHPD APPROVAL STAMP:
OSHPD #: S200813-37-00-ACD0001

SHEET TITLE:
1/8" OVERALL LIGHTING PHOTOMETRIC

PROJECT TITLE:
TCMC MRI

PROJECT #: 01907.01/AGD 20-0001
DRAWN BY: STAFF
CHECKED BY: ARS
SCALE: PER TITLE
DATE: 03/11/2020
SHEET NUMBER: E4-32

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KEYNOTES

8 PROVIDE AND INSTALL 12"-SQUARE x 4" DEEP PULL BOX TO UNDERSIDE OF MECHANICAL PENTHOUSE CEILING. COORDINATE MOUNTING LOCATION AND INSTALLATION WITH EXISTING FIELD CONDITIONS, STRUCTURAL BEAMS AND OTHER EQUIPMENT PRIOR TO ROUGH-IN OF ELECTRICAL.

9 PROVIDE AND INSTALL 24"-SQUARE x 6" DEEP PULL BOX TO UNDERSIDE OF MECHANICAL PENTHOUSE CEILING. COORDINATE MOUNTING LOCATION AND INSTALLATION WITH EXISTING FIELD CONDITIONS, STRUCTURAL BEAMS AND OTHER EQUIPMENT PRIOR TO ROUGH-IN OF ELECTRICAL.

10 PROVIDE AND INSTALL 12"-SQUARE x 4" DEEP NEMA 3R PULL BOX SURFACE MOUNTED TO EXTERIOR WALL ON UNDERSIDE OF MECHANICAL LOUVER. COORDINATE MOUNTING LOCATION AND INSTALLATION WITH EXISTING FIELD CONDITIONS, STRUCTURAL BEAMS AND OTHER EQUIPMENT PRIOR TO ROUGH-IN OF ELECTRICAL.

11 PROVIDE AND INSTALL 18"-SQUARE x 4" DEEP NEMA 3R PULL BOX SURFACE MOUNTED TO EXTERIOR WALL ON UNDERSIDE OF MECHANICAL LOUVER. COORDINATE MOUNTING LOCATION AND INSTALLATION WITH EXISTING FIELD CONDITIONS, STRUCTURAL BEAMS AND OTHER EQUIPMENT PRIOR TO ROUGH-IN OF ELECTRICAL.

1 NOT USED.

2 PROVIDE AND INSTALL UNIT MOUNTED 200A/3P HEAVY DUTY NEMA 3R MOTOR RATED FUSED DISCONNECT SWITCH WITH THREE (3) 110A FUSES TO PROVIDE DISCONNECTING MEANS FOR MRI CHILLER. COORDINATE FUSE/DISCONNECT SIZE WITH MANUFACTURER'S REQUIREMENTS, VENDOR, UNIT NAMEPLATE AND FIELD CONDITIONS PRIOR TO INSTALLATION.

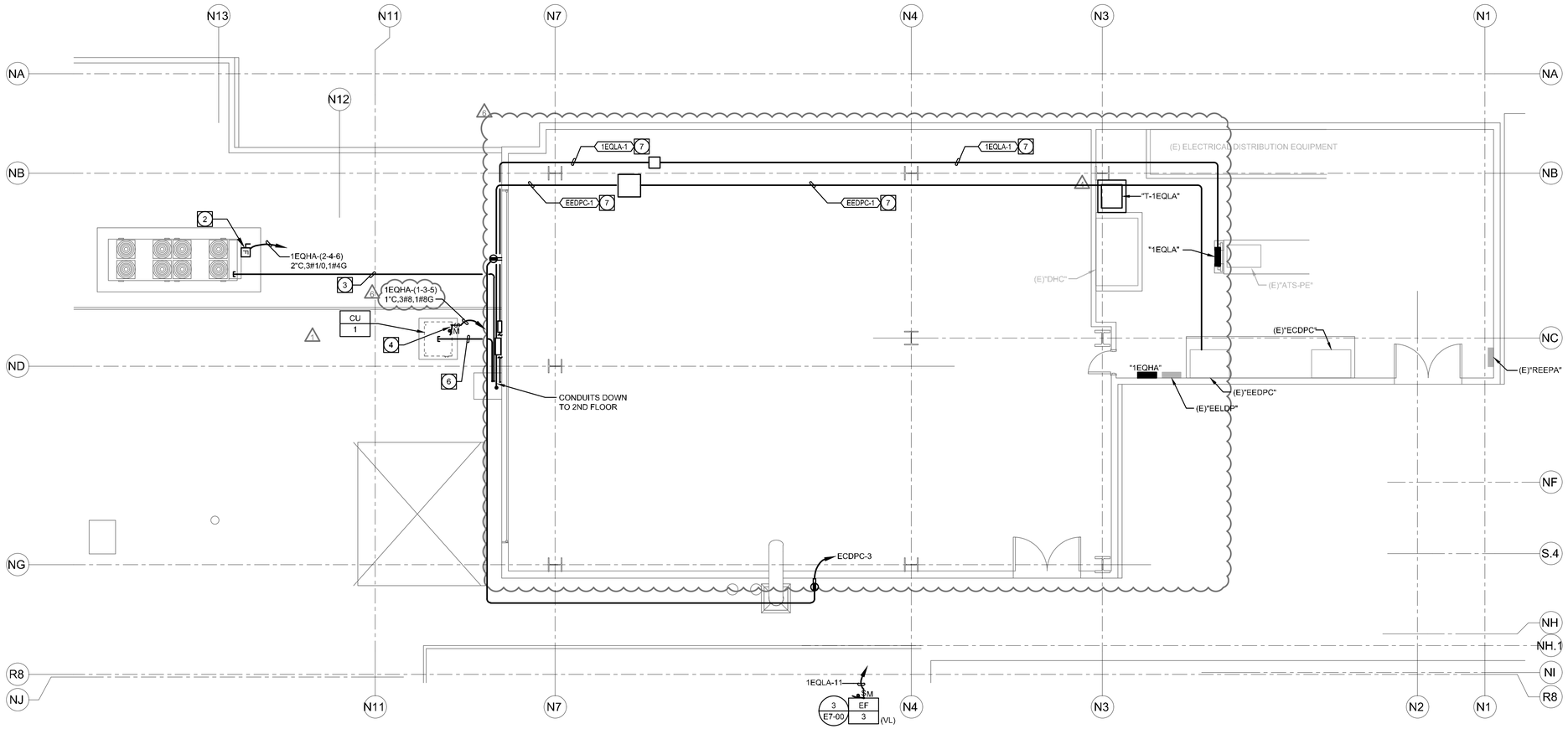
3 PROVIDE/INSTALL/ROUTE ONE (1) 1"C.O. WITH NYLON PULL ROPE FROM CHILLER CONTROLS TO MRI CONTROL ROOM FOR ROUTING OF CHILLER REMOTE MONITORING CABLE PROVIDED AND INSTALLED BY OTHERS. ROUTING TO FOLLOW PANELBOARD "1EQLB"/MRI MAINS FEEDER ROUTING FROM ROOF THROUGH 2ND FLOOR CEILING AND INTO THE MRI SUITE. INSTALL CONDUIT ON SLEEPERS FROM UNIT TO EDGE OF MECHANICAL PENTHOUSE THEN ROUTE ALONG BOTTOM OF WALL. COORDINATE/VERIFY TERMINATION LOCATION WITHIN CONTROL ROOM WITH VENDOR EQUIPMENT INSTALLER, INSTALLATION GUIDES AND REQUIREMENTS.

4 PROVIDE AND INSTALL 40A/3P 480V HEAVY DUTY NEMA 3R MOTOR RATED TOGGLE SWITCH WITH THERMAL OVERLOAD PROTECTION TO PROVIDE DISCONNECTING MEANS OF POWER TO AIR HANDLER UNIT LIGHTING AND DDC CONTROLS. COORDINATE MOUNTING LOCATION AND REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN OF ELECTRICAL. MAINTAIN ALL CEC CODE REQUIRED WORKING CLEARANCES.

5 PROVIDE AND INSTALL 20A/1P 120V NEMA 3R MOTOR RATED TOGGLE SWITCH WITH THERMAL OVERLOAD PROTECTION TO PROVIDE DISCONNECTING MEANS OF EXHAUST FAN. COORDINATE MOUNTING LOCATION AND REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN OF ELECTRICAL. MAINTAIN ALL CEC CODE REQUIRED WORKING CLEARANCES.

6 CONDENSING UNIT CONTROL WIRING CONDUIT. PROVIDE/INSTALL/ROUTE 1"C.O. WITH NYLON PULL ROPE FROM CONDENSING UNIT TO FAN COIL INSTALLED WITHIN MRI EQUIPMENT ROOM. ROUTING TO FOLLOW PANELBOARD "1EQLB"/MRI MAINS FEEDER ROUTING FROM ROOF THROUGH 2ND FLOOR CEILING AND INTO THE MRI SUITE. INSTALL CONDUIT ON SLEEPERS FROM UNIT TO EDGE OF MECHANICAL PENTHOUSE THEN ROUTE ALONG BOTTOM OF WALL. COORDINATE ROUTING WITH EXISTING FIELD CONDITIONS AND OTHER TRADES AS REQUIRED.

7 FEEDER ROUTING TO BE OVERHEAD WITHIN ELECTRICAL AND MECHANICAL PENTHOUSES TO PERIMETER WALL ADJACENT TO MECHANICAL LOUVER. CONDUITS TO PENETRATE EXTERIOR WALL OF MECHANICAL ROOM, ROUTE VERTICALLY ON THE EXTERIOR WALL TO A LOCATION UNDER THE LOUVER THEN ROUTE HORIZONTALLY UNDER LOUVER TO PENETRATION LOCATION. CONDUITS TO PENETRATE INTO SECOND FLOOR SPACE AND FOLLOW SPLIT SYSTEM PIPING ROUTING TO MRI SUITE. ONCE CONDUITS ARE WITHIN THE MRI SUITE CONTRACTOR TO ROUTE OVERHEAD WITHIN SUITE TO THE RESPECTIVE EQUIPMENT. COORDINATE ROUTING AND REQUIREMENTS WITH FIELD CONDITIONS AND OTHER TRADES AS REQUIRED.



1 SECOND FLOOR ROOF PLAN
1/4" = 1'-0"

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12.31.2022
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REV.		DESCRIPTION:	DATE:
1	1	OSHPD COMMENTS	8/3/2020
2	2	DESIGN CHANGES	8/10/2020
3	3	OSHPD COMMENTS	10/2/2020
4	4	OSHPD COMMENTS	11/24/2020
5	5	DESIGN CHANGES	11/24/2020
6	6	ACD 0001 DESIGN CHANGES	4/14/2021
7	7	ACD 0001 DESIGN CHANGES	5/6/2021

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OSHPD APPROVAL STAMP:
OSHPD #: S200813-37-00-ACD0001

SHEET TITLE:
3/16" UPPER ROOF PLAN

PROJECT TITLE:
TCMC MRI

PROJECT #: 01907.01/AGD 20-0001
DRAWN BY: STAFF
CHECKED BY: ARS
SCALE: PER TITLE
DATE: 03/11/2020

SHEET NUMBER:
E5-32

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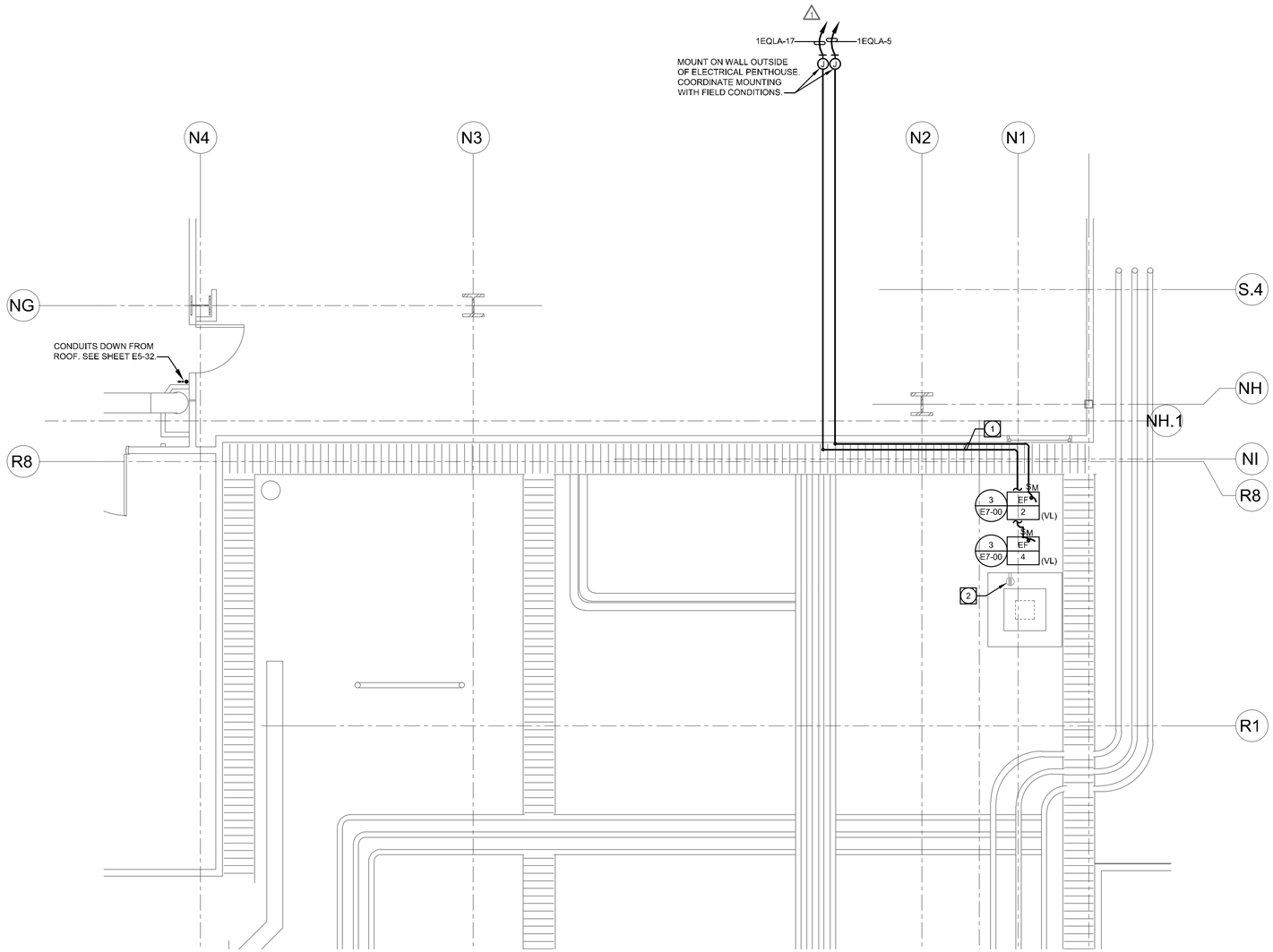

1 FIRST FLOOR ROOF PLAN
1/4" = 1'-0"

KEYNOTES

1. ROUTE FEEDER TO PERIMETER WALL ON COMPOSITE SLEEPERS THEN ROUTE CONDUIT ALONG BASE OF WALL TO EXISTING MECHANICAL DUCT/ELECTRICAL CONDUIT RACK MOUNTED UP THE SIDE OF THE BUILDING. CONDUIT TO BE ROUTED ON EXISTING RACK UP AND OVER PARAPET WALL THEN STUBBED INTO ELECTRICAL ROOM AND HOME-RUN TO THE PANEL/CIRCUIT IDENTIFIED. REFER TO IMAGES 1 AND 2 THIS SHEET FOR ADDITIONAL INFORMATION. COORDINATE ROUTING AND REQUIREMENTS WITH EXISTING FIELD CONDITIONS.
2. EXISTING ROOF MOUNTED MAINTENANCE RECEPTACLE IN WEATHER PROOF ENCLOSURE TO BE PROTECTED IN PLACE.

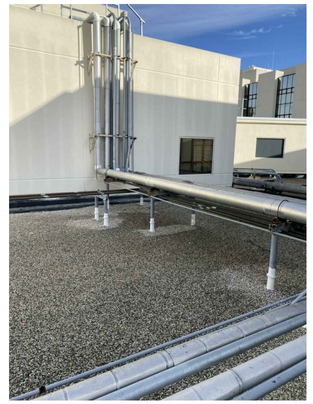

IMAGE 1 - VERTICAL CONDUIT RACK FROM 1ST FLOOR ROOF TO 2ND FLOOR ROOF

IMAGE 1 - HORIZONTAL CONDUIT RACK @ 2ND FLOOR ROOF

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OSHPD APPROVAL STAMP:
OSHPD #: S200813-37-00-ACD0001

SHEET TITLE:
1/4" LOWER ROOF PLAN

PROJECT TITLE:
TCMC MRI

PROJECT #: 01907.01/AGD 20-0001
DRAWN BY: STAFF
CHECKED BY: ARS
SCALE: PER TITLE
DATE: 03/11/2020

SHEET NUMBER:
E5-33

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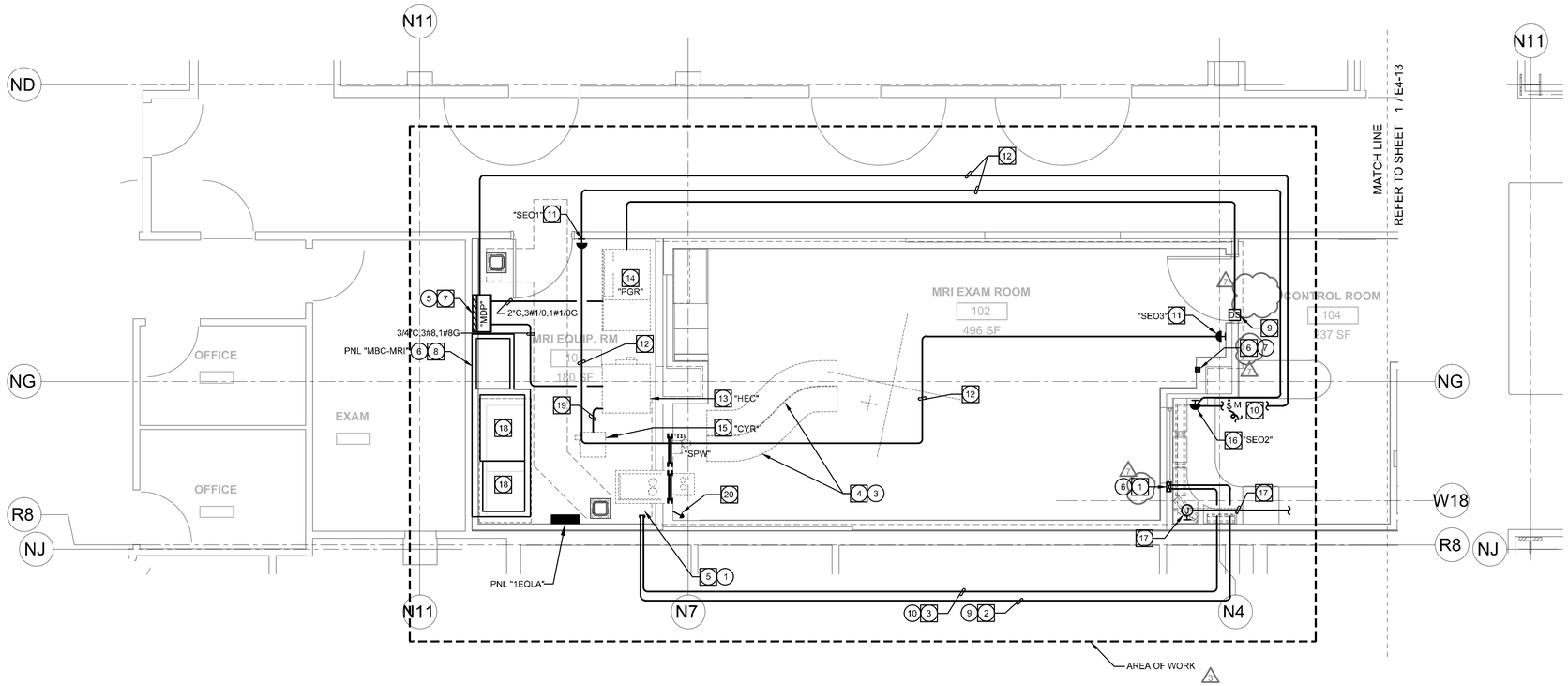

NOTE: CONTRACTOR TO REFER TO FINAL VENDOR DRAWINGS AND INSTALLATION GUIDES FOR ALL CONDUIT, INSTALLATION REQUIREMENTS AND RESPONSIBILITIES. CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND INSTALLING ALL VENDOR REQUIRED RACEWAYS, PATHWAYS, ETC. AS NOTED AND REFERENCED ON VENDOR DESIGN DOCUMENTS.

6 NOTE: CONTRACTOR IS RESPONSIBLE FOR PERFORMING COMPREHENSIVE TESTS OF THE EXISTING ELECTRICAL POWER AND GROUNDING SYSTEMS TO ENSURE THE SYSTEMS ARE OPERATING WITHIN THE REQUIRED/REFERENCED TOLERANCES IDENTIFIED IN THE VENDOR DRAWINGS FOR ALL VENDOR EQUIPMENT/SYSTEMS INCLUDING BUT IS NOT LIMITED TO VOLTAGE TESTS, NEUTRAL TESTS, EQUIPOTENTIAL GROUND/ VOLTAGE LEAK TESTS, ETC. CONTRACTOR TO REFER TO FINAL VENDOR DRAWINGS AND INSTALLATION GUIDES FOR MANUFACTURER RECOMMENDED TOLERANCES AND VALUES.

NOTE: ALL NUMBERED CIRCLES REPRESENT/CORRESPEND TO EQUIPMENT/ INFRASTRUCTURE IDENTIFICATIONS INCLUDED ON SHEET E6 OF GE VENDOR DRAWINGS. COORDINATE REQUIREMENTS PRIOR TO ROUGH-IN.

NOTE: ALL CONDUIT HOMERUNS ARE TO INCLUDE A DEDICATED GREEN GROUND CONDUCTOR SIZED PER NEC AND TERMINATED PER MANUFACTURER'S AND APPLICABLE CODE REQUIREMENTS.

NOTE: ALL EQUIPMENT, DEVICES, J-BOXES, ETC. ARE TO BE CLEARLY ENGRAVED WITH THE CIRCUIT AND PANELBOARD INFORMATION FROM WHICH THEY ARE FED.

KEYNOTES

1. PROVIDE AND INSTALL 12"x8"x6" JUNCTION BOX INSTALLED FLUSH WITH WALL AND MOUNTED AT FLOOR LEVEL. COORDINATE MOUNTING LOCATION AND REQUIREMENTS WITH VENDOR PRIOR TO ROUGH-IN OF ELECTRICAL.
2. PROVIDE AND INSTALL (1)2"C.O. WITH NYLON PULL ROPE ROUTED OVERHEAD ABOVE RF SCREEN. DEVICE TO INTERCONNECT J-BOX REFERENCED IN KEYNOTE 1 AND EQUIPMENT ROOM CABLE TRAY. COORDINATE ROUTING AND REQUIREMENTS WITH VENDOR PRIOR TO ROUGH-IN OF ELECTRICAL.
3. PROVIDE AND INSTALL (1)3"C.O. WITH NYLON PULL ROPE ROUTED OVERHEAD ABOVE RF SCREEN. DEVICE TO INTERCONNECT J-BOX REFERENCED IN KEYNOTE 1 AND EQUIPMENT ROOM CABLE TRAY. COORDINATE ROUTING AND REQUIREMENTS WITH VENDOR PRIOR TO ROUGH-IN OF ELECTRICAL.
4. PROVIDE AND INSTALL NON-FERROUS (I.E. ALUMINUM) 18"x6" CABLE/LADDER TRAY AND NON-FERROUS UNISTRUT CABLE SUPPORTS. COORDINATE MOUNTING AND REQUIREMENTS WITH VENDOR, ARCHITECT OTHER TRADES AS REQUIRED.
5. 7 PROVIDE AND INSTALL 18"X6" CABLE/LADDER TRAYS - QUANTITY/LENGTHS/ LAYOUTS AS PER THE VENDOR DRAWINGS. COORDINATE MOUNTING AND REQUIREMENTS WITH VENDOR, ARCHITECT OTHER TRADES AS REQUIRED.
6. PROVIDE AND INSTALL 4"X4"X2 JUNCTION BOX INSTALLED FLUSH WITH WALL AND MOUNTED 5'-4"A.F.F. TO CENTER OF THE BOX FOR MAGNET RUNDOWN UNIT MOUNTING. ROUTE ONE (1)1"C.O. WITH NYLON PULL ROPE OVERHEAD FROM PULLBOX TO MAGNET. COORDINATE MOUNTING LOCATION AND REQUIREMENTS WITH VENDOR PRIOR TO ROUGH-IN OF ELECTRICAL.
7. VENDOR PROVIDED CONTRACTOR INSTALLED MAIN DISCONNECT PANEL. REFER TO SINGLE LINE DIAGRAM E0-01 FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
8. MAINTENANCE BYPASS CABINET. REFER TO SINGLE-LINE DRAWING FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
9. 7 PROVIDE AND INSTALL DOOR SWITCH. REFER TO "INTERCONNECTIONS" DETAIL ON VENDOR DRAWINGS FOR ADDITIONAL INFORMATION. ROUTE ONE (1) 3/4"C,2#12,1#12 G TO "POWER GRADIENT CABINET" ("PGR") AND TERMINATE PER MANUFACTURER'S RECOMMENDATIONS. COORDINATE MOUNTING LOCATION AND REQUIREMENTS WITH EQUIPMENT VENDOR PRIOR TO ROUGH-IN.
10. PROVIDE AND INSTALL 20A/1P MOTOR RATED TOGGLE SWITCH TO PROVIDE DISCONNECTING MEANS FOR EMERGENCY EXHAUST FAN. PROVIDE 3/4"C,2#12,1#12 ELECTRICAL CONNECTION ROUTED FROM SWITCH TO ROOF MOUNTED EXHAUST FAN "EF-1". COORDINATE ROUTING AND REQUIREMENTS WITH FIELD CONDITIONS AND VENDOR REQUIREMENTS PRIOR TO INSTALLATION.
11. VENDOR FURNISHED CONTRACTOR INSTALLED FLUSH MOUNTED SYSTEM EMERGENCY OFF BUTTON PROVIDED WITH MDP PANEL. VERIFY LOCATION WITH END-USER AND EQUIPMENT VENDOR PRIOR TO ROUGH-IN OF ELECTRICAL.
12. ROUTE 3/4"C FOR ROUTING OF VENDOR PROVIDED CABLE. INCLUDE NYLON PULL ROPE FROM DEVICE TO REFERENCED EQUIPMENT AND TERMINATE PER MANUFACTURER'S RECOMMENDATIONS. COORDINATE ROUTING AND REQUIREMENTS WITH VENDOR AND FIELD CONDITIONS PRIOR TO ROUGH-IN OF ELECTRICAL.
13. GE FURNISHED AND INSTALLED HEAT EXCHANGER CABINET ("HEC").
14. GE FURNISHED AND INSTALLED POWER/GRADIENT/RF CABINET ("PGR").
15. GE FURNISHED AND INSTALLED CRYOCOOLER COMPRESSOR ("CYR").
16. PROVIDE AND INSTALL FLUSH MOUNTED EPO SWITCH. COORDINATE TYPE AND REQUIREMENTS WITH VENDOR PRIOR TO ROUGH-IN. INTERCONNECT DEVICE TO "MDP" AND SECONDARY PENETRATION WALL ("SPW") UTILIZING 3/4"C, 2#12, 1#12 G CONDUCTORS. COORDINATE ROUTING AND REQUIREMENTS WITH VENDOR AND FIELD CONDITIONS PRIOR TO ROUGH-IN OF ELECTRICAL.
17. VENDOR PROVIDED CONTRACTOR INSTALLED CHILLER REMOTE GRAPHIC DISPLAY CONTRACTOR TO PROVIDE AND INSTALL (1)1"C.O. WITH NYLON PULL ROPE ROUTED FROM PANEL TO CHILLER CONTROLS ON ROOF. COORDINATE ROUTING AND REQUIREMENTS WITH EXISTING FIELD CONDITIONS.
18. 150kVA UPS AND BATTERY CABINET PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR. CONTRACTOR TO PROVIDE ALL ELECTRICAL CONNECTIONS. REFER TO E0.01 FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
19. ROUTE 1/2"C FOR VENDOR PROVIDED CABLE (3#12, 1#12 G). INCLUDE NYLON PULL ROPE FROM DEVICE TO REFERENCED EQUIPMENT AND TERMINATE PER MANUFACTURER'S RECOMMENDATIONS. COORDINATE ROUTING AND REQUIREMENTS WITH VENDOR AND FIELD CONDITIONS PRIOR TO ROUGH-IN OF ELECTRICAL.
20. COMMON GROUND STUD. ROUTE 1/2" FROM GROUND STUD TO PDU GROUND BUS FOR VENDOR PROVIDED CABLE (1#10). COORDINATE LOCATION ROUTING AND REQUIREMENTS WITH FIELD CONDITIONS AND VENDOR INSTALLATION GUIDES.

GENERAL NOTES

1. ALL EMPTY CONDUIT ARE TO BE PROVIDED WITH AN ADEQUATELY SIZED NYLON PULL ROPE.
2. ELECTRICAL CONTRACTOR SHALL REFER TO MECHANICAL-PLUMBING AND ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND CHARACTERISTICS OF ALL EQUIPMENT LISTED IN SCHEDULE. ANY MODIFICATIONS AND/OR ADDITIONAL WORK NECESSARY SHALL BE INCLUDED IN THE BASE BID.
3. ELECTRICAL CONTRACTOR SHALL VERIFY THE LOCATION OF ALL CONNECTION POINTS WITH THE EQUIPMENT INSTALLER PRIOR TO ROUGH-IN
4. ELECTRICAL CONTRACTOR SHALL PROVIDE LOCAL REMOTE DISCONNECTING MEANS FOR ALL ELECTRIC HEATING EQUIPMENT IF REQUIRED BY THE LOCAL ELECTRICAL CODE.
5. HOME-RUNS ONLY ARE REFERENCED ON PLANS. IN ADDITION CONDUIT PATHWAYS BETWEEN DEVICES ARE NOT INCLUDED TO PROVIDE THE INSTALLING CONTRACTOR THE FLEXIBILITY TO INSTALL ALL CONDUIT AND WIRE IN THE MOST EFFICIENT AND NEAT MANNER POSSIBLE. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL REQUIRED CONDUIT AND CONDUCTORS AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM. REFER TO COVER SHEET E0.01 FOR GENERAL BRANCH CIRCUIT SIZING AND REQUIREMENTS.
6. COORDINATE LOCATIONS AND MOUNTING HEIGHTS FOR ALL DEVICES IN CONTROL ROOM, EQUIPMENT ROOM AND PROCEDURE ROOM WITH VENDOR DRAWINGS AND ELEVATIONS PRIOR TO ROUGH-IN OF ELECTRICAL.
7. IN INSTANCES WHERE A BRANCH CIRCUIT IS REFERENCED MORE THAN ONCE ON A SEPARATE HOME-RUN, THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING A J-BOX ABOVE THE PANELBOARD TO CONSOLIDATE CIRCUITS INTO ONE (1) SINGLE BRANCH CIRCUIT CONNECTION BY SPLICING ALL CONDUCTORS TOGETHER AND ROUTING ONE (1) SINGLE CONDUIT AND GROUP OF BRANCH CIRCUIT CONDUCTORS FROM THE J-BOX TO THE ASSOCIATED TERMINATIONS WITHIN THE PANELBOARD.
8. ALL CONDUITS, FEEDERS, ETC. ARE TO BE EQUIPPED WITH A CODE SIZED GREEN GROUNDING CONDUCTOR.
9. CONTRACTOR IS TO PROVIDE AND INSTALL A 4S J-BOX ABOVE THE CEILING AT EACH RECEPTACLE/DEVICE LOCATION THEN EXTEND REQUIRED/PROPERLY SIZED CONDUIT AND WIRE FROM J-BOX AND TERMINATE AT EACH DEVICE. IT IS NOT PERMITTED TO CONNECT DEVICES WITHIN THE SAME AND/OR ADJACENT/DIFFERENT ROOMS.
10. NO MC AND/OR FLEX CONNECTIONS ARE PERMITTED FOR USE EXCEPT FOR WHEN CONNECTIONS ARE BEING MADE FROM A J-BOX TO A LIGHT FIXTURE OR OTHER SIMILAR DEVICE INSTALLED ABOVE THE CEILING. ALL OUTLETS/DEVICES INSTALLED WITHIN WALLS ARE TO BE CONNECTED WITH HARD PIPE EMT CONDUIT AND WIRE.
11. ALL CONDUIT, J-BOXES, 6'-0" FLEXIBLE CONNECTIONS TO FIXTURES, METALLIC PARTS, MOUNTING HARDWARD, ETC. INSTALLED WITHIN THE MRI ROOM ARE TO BE GROUNDED ALUMINUM CONDUITS. COORDINATE REQUIREMENTS WITH FIELD CONDITIONS PRIOR TO ROUGH-IN OF ELECTRICAL.

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TCMC MRI

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LICENSED ARCHITECT JOSEPH MICHEL SFEIR No. C 28543 REN. 1-31-23 STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER No. E 18589 12.31.2022 ELECTRICAL STATE OF CALIFORNIA

REV.	DESCRIPTION:	DATE
1	OSHPD COMMENTS	8/3/2020
2	DESIGN CHANGES	8/10/2020
3	OSHPD COMMENTS	10/2/2020
4	OSHPD COMMENTS	11/24/2020
5	DESIGN CHANGES	11/24/2020
6	ACD 0001 DESIGN CHANGES	4/14/2021
7	ACD 0001 DESIGN CHANGES	5/6/2021

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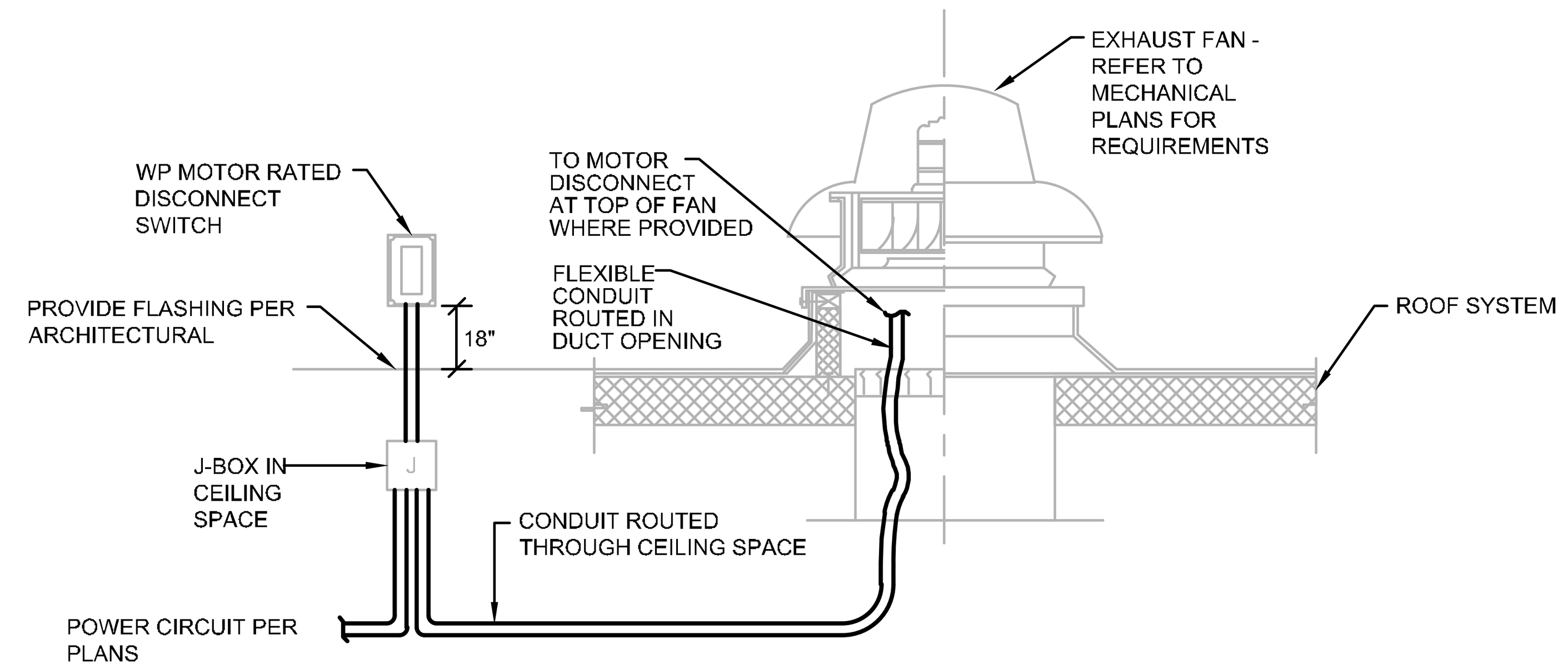
OSHPD APPROVAL STAMP:
OSHPD #: S200813-37-00-ACD0001

SHEET TITLE:
1/4" PARTIAL FLOOR PLAN EQUIPMENT PLAN

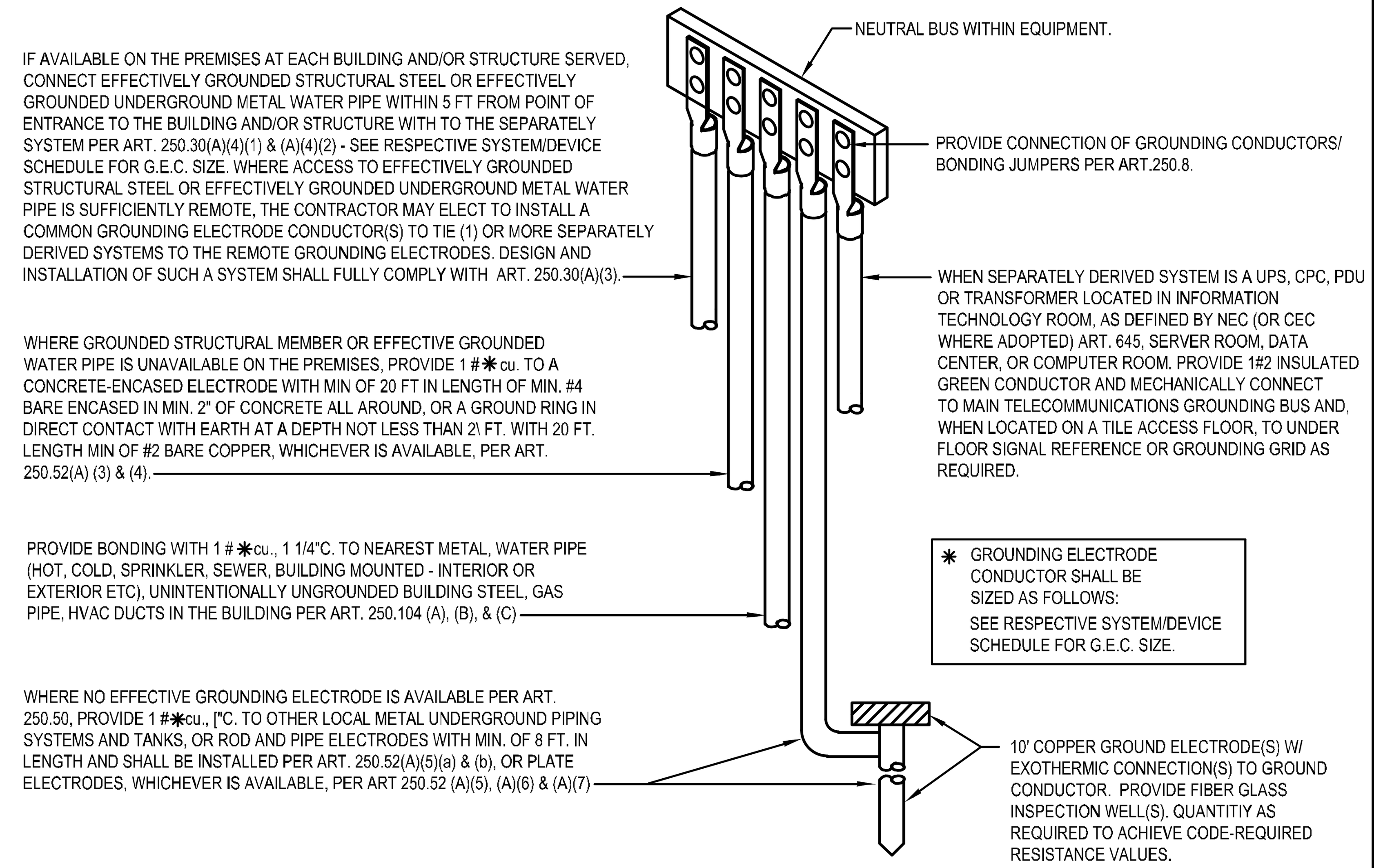
PROJECT TITLE:
TCMC MRI

PROJECT #: 01907.01/AGD 20-0001
DRAWN BY: STAFF
CHECKED BY: ARS
SCALE: PER TITLE
DATE: 03/11/2020

SHEET NUMBER:
E6-20



EXHAUST FAN CONNECTION DETAIL	NOT TO SCALE	3

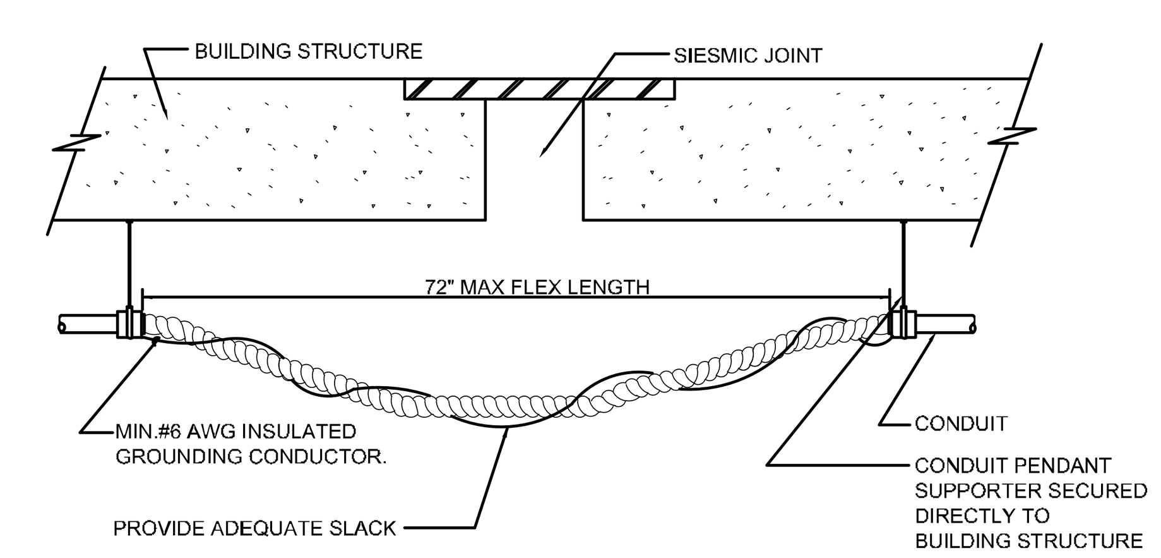


SEPARATELY DERIVED SYSTEM GROUND DETAIL	NOT TO SCALE	2

-	NOT TO SCALE	1

	NOT TO SCALE	6

	NOT TO SCALE	5



3 NOTE: ALL SUPPORTS ARE TO BE INSTALLED WITHIN 6" OF POINT OF CONNECTION TO STRUCTURE ABOVE. MAXIMUM CONDUIT SIZE IS 4".

CONDUIT CROSSING AN EXPANSION JOINT	NOT TO SCALE	4

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REGISTERED PROFESSIONAL ENGINEER ADAM SLOAN No. E 18589 12.31.2022 ELECTRICAL STATE OF CALIFORNIA

REV:	DESCRIPTION:	DATE:
1	OSHPD COMMENTS	8/3/2020
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OSHPD APPROVAL STAMP:
OSHPD #: S200813-37-00-ACD0001

SHEET TITLE:
ELECTRICAL DETAILS

PROJECT TITLE:
TCMC MRI

PROJECT #: 01907.01/AGD 20-0001
DRAWN BY: STAFF
CHECKED BY: ARS
SCALE: PER TITLE
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SHEET NUMBER: E7-00

100% - CONSTRUCTION DOCS

06.17.2021_AGD ACD0001 w/ Del 6 & 7 Clouds

GENERAL FIRE ALARM NOTES

1. THE FIRE ALARM SYSTEM AND ALL WIRING SHALL CONFORM TO CFC 907.2.3 ARTICLE 760 OF THE 2019 CALIFORNIA ELECTRIC CODE AND 2019 NFPA 72, WITH CA AMENDMENTS.
2. THE SYSTEM SHALL CONFORM TO CURRENT CALIFORNIA CODE OF REGULATIONS (CCR) TITLES 19 & 24 AS APPLICABLE TO THIS PROJECT, AND NATIONAL FIRE PROTECTION AGENCY (NFPA) STANDARD 723.
3. ALL DEVICES OF THE FIRE ALARM SYSTEM SHALL BE APPROVED AND LISTED BY THE CALIFORNIA STATE FIRE MARSHAL AND SHALL BE COMPATIBLE AND INSTALLED ACCORDING TO MANUFACTURERS SPECIFICATIONS.
4. THE EXISTING FIRE ALARM SYSTEM SHALL BE PROTECTED IN PLACE, MAINTAINED AND LEFT IN OPERATION DURING THE SCOPE OF THIS PROJECT.
5. THE SILENT KNIGHT FIRE ALARM SYSTEM AND ROUGH-IN DEMONSTRATED ON THIS PLAN IS ALL NEW. A COMPLETE NEW FIRE ALARM INFRASTRUCTURE WILL BE INSTALLED.
6. AN APPROVED SET OF FIRE ALARM PLANS SHALL BE ON THE JOB SITE AND USED FOR INSTALLATION. ANY DEVIATION FROM APPROVED PLANS, INCLUDING THE SUBSTITUTION OF DEVICES, SHALL BE APPROVED BY THE OSHPD FIRE MARSHAL.
7. ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE CODE OR RECOGNIZED STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF THE INSPECTOR OF RECORD.
8. ALL ANNUNCIATORS, INITIATING, AND INDICATING DEVICES SHALL BE SUPERVISED TO THE PRINCIPLE POINT OF ANNUNCIATION, THE FIRE ALARM CONTROL PANEL.
9. WIRING SHALL NOT BE LOOPED THROUGH DEVICES AND MUST BE CUT IN AND OUT AT EACH DEVICE.
10. ONLY SIGNALING LINE CIRCUITS (SLC) MAY BE T-TAPPED TO PROVIDE LESS RESISTANCE ON THE CIRCUIT. SIGNALING LINE CIRCUITS SHALL ONLY BE T-TAPPED AT DEVICES, IN TERMINAL OR CONTROL LOCATIONS. REFER TO AND COMPLY WITH THE MANUFACTURERS REQUIREMENTS AND LIMITS FOR T-TAPPING.
11. AUDIBLE AND VISUAL DEVICES SHALL COMPLY WITH THE AUDIBILITY AND FLASH LEVELS AS SPECIFIED IN NFPA 72 AND ALL AMENDMENTS SPECIFIED IN TITLE 24. THIS INCLUDES DEVICE LOCATION AND COVERAGE. VOICE ANNOUNCEMENTS SHALL BE INTELLIGIBLE PER CHAPTER 18 NFPA 72.
12. THE AUDIBLE ALERT TONE SHALL BE CODED TEMPORAL PATTERN FOLLOWED BY A VOICE ANNOUNCEMENT. THE AUDIBLE SIGNAL SHALL HAVE A MINIMUM SOUND LEVEL OF 15 DECIBELS ABOVE THE AVERAGE AMBIENT NOISE LEVEL OR 5 dB ABOVE THE MAXIMUM SOUND LEVEL FOR A DURATION OF AT LEAST 60 SECONDS NOT TO EXCEED 110 DECIBELS AT THE MINIMUM HEARING DISTANCE. THE AUDIBLE SIGNAL SHALL BE SYNCHRONIZED THROUGH OUT THE CAMPUS.
13. AUDIBILITY WILL BE DETERMINED BY SOUND METER TESTING BY THE INSPECTOR OF RECORD.
14. INSTALL 3/4" CONDUIT MINIMUM OR SERIES V2400 WIREMOLD FOR ABOVE GROUND RACEWAY. WIREMOLD SHALL BE SIZED ACCORDING TO FILL AND EXISTING CONDITIONS. ALL SURFACE MOUNT WIREMOLD SHALL BE STEEL V2400 SERIES. SURFACE WIREMOLD SHALL ONLY BE INSTALLED WHERE CONCEALED CONDUIT CAN NOT BE INSTALLED DUE TO LACK OF ACCESS. ALL NEW 2" UNDERGROUND CONDUITS SHALL BE INSTALLED TO PROVIDE A NEW FIRE ALARM BACKBONE INFRASTRUCTURE.
15. THE ELECTRICAL CONTRACTOR SHALL INSTALL PULL ROPES IN THE EMPTY CONDUIT SYSTEM AS INSTALLED.
16. WIRING MUST BE LISTED FOR USE AS REQUIRED BY TITLE 24/CEC, ARTICLE 760.
17. CABLE INSTALLED IN WET LOCATIONS EITHER ABOVE OR BELOW GROUND SHALL BE MOISTURE RESISTANT OR A TYPE APPROVED AND LISTED FOR USE UNDER WET CONDITIONS. (SECTION 310-8.1 C.E.C.)
18. ONLY WIRING CONNECTED TO THE FIRE ALARM SYSTEM SHALL BE INSTALLED IN THE SAME JUNCTION BOXES, RACEWAY AND CONDUIT SYSTEM.
19. ALL ROUGH-IN CONDUIT, WIREMOLD, BACKBOXES, PULL BOXES, & 120 VAC POWER SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR UNDER DIRECTION OF THE FIRE ALARM CONTRACTOR.
20. THE ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL DEDICATED 120VAC POWER CIRCUITS TO ALL NEW FIRE ALARM SYSTEM PANELS. PROVIDE A LOCK-ON BREAKER AT THE ELECTRICAL PANELS AND PERMANENTLY LABEL THE BREAKER AS "FIRE ALARM CONTROL POWER."
21. ALL TERMINATIONS IN MAIN TERMINAL CABINETS SHALL BE MADE ON TERMINAL STRIPS. ALL FIRE ALARM WIRING TERMINATIONS SHALL BE MADE AT THE FIRE ALARM DEVICES, JUNCTION BOXES OR IN THE TERMINAL CABINETS. NO TERMINATIONS SHALL BE MADE IN UNDERGROUND PULL BOXES.
22. IDENTIFY FIRE ALARM CIRCUITS AT TERMINAL AND JUNCTION LOCATIONS PER CEC 760-42.
23. THE FIRE ALARM FLOOR PLANS ARE DIAGRAMMATIC. ADJUST DEVICE LOCATIONS (WITHIN LIMITS OF NFPA 72 REQUIREMENTS), AND WIRING FOR ACTUAL FIELD CONDITIONS.
24. ALL SMOKE DETECTORS AND OTHER FIRE ALARM DEVICES SHALL BE COVERED AND PROTECTED UNTIL THE AREA OF WORK IS CLEAN AND FREE OF DUST AND DEBRIS. TO ENSURE THAT EACH SMOKE DETECTOR IS WITHIN ITS LISTED AND MARKED SENSITIVITY RANGE, IT SHALL BE TESTED USING EITHER A CALIBRATED TEST METHOD, THE MANUFACTURER'S CALIBRATED SENSITIVITY TEST INSTRUMENT, LISTED CONTROL EQUIPMENT ARRANGED FOR THE PURPOSE, A SMOKE DETECTOR/ CONTROL UNIT ARRANGEMENT WHEREBY THE DETECTOR CAUSES A SIGNAL AT THE CONTROL UNIT WHERE ITS SENSITIVITY IS OUTSIDE ITS ACCEPTABLE RANGE OR OTHER CALIBRATED SENSITIVITY TEST METHOD ACCEPTABLE TO THE FIRE CODE OFFICIAL. DETECTORS FOUND TO HAVE A SENSITIVITY OUTSIDE THE LISTED AND MARKED SENSITIVITY RANGE SHALL BE CLEANED AND RECALIBRATED OR REPLACED. EXCEPTIONS: 1) DETECTORS LISTED AS FIELD ADJUSTABLE SHALL BE PERMITTED TO BE EITHER ADJUSTED WITHIN THE LISTED AND MARKED SENSITIVITY RANGE AND CLEANED AND RECALIBRATED OR THEY SHALL BE REPLACED. 2) THIS REQUIREMENT SHALL NOT APPLY TO SINGLE-STATION SMOKE ALARMS.
25. ALL EXTERIOR ALARM COMPONENTS SHALL BE LISTED FOR OUTDOOR USE.
26. PENETRATIONS THROUGH FIRE RATED WALLS AND FLOORS SHALL BE SEALED WITH A MATERIAL CAPABLE OF PREVENTING THE PASSAGE OF FLAMES AND HOT GASSES AND PROTECTED IN ACCORDANCE WITH THE CALIFORNIA BUILDING CODE.
27. THE NEW FIRE ALARM SYSTEM SHALL BE A FULLY AUTOMATIC SYSTEM. THE NEW SYSTEM DEVICES SHALL BE INSTALLED AS AN AUTOMATIC SYSTEM WITH FULL SMOKE DETECTOR COVERAGE AND HEAT DETECTORS IN ATTICS AND ABOVE ACCESSIBLE CEILING SPACES.
28. A MINIMUM OF 48 HOURS NOTICE SHALL BE REQUIRED FOR ANY INSPECTION AND/OR TESTING.
29. UPON COMPLETION OF SYSTEM INSTALLATION, THE SYSTEM SHALL BE TESTED IN THE PRESENCE OF THE PROJECT INSPECTOR AND IN A MANNER ACCEPTABLE TO OSHPD/PROJECT INSPECTOR. THE CONTRACTOR MUST SUPPLY NECESSARY TESTING EQUIPMENT INCLUDING A "SOUND LEVEL METER" TO CHECK ACCEPTABLE DECIBEL LEVELS OF AUDIBLE DEVICES. PROVIDE TEST RESULTS PER THE NFPA 72 "RECORD OF COMPLETION" TO THE ARCHITECT, OSHPD, PROJECT INSPECTOR, OWNER AND TO THE LOCAL FIRE AUTHORITY. ALL NORMALLY OCCUPIED AREAS SHALL BE PROVIDED WITH A FIRE ALARM DECIBEL LEVEL AT 15 dBa ABOVE AMBIENT NOISE LEVELS. REQUEST FOR INSPECTION SHALL INCLUDE STATEMENT OF COMPLIANCE NOTED IN CFC SECTION 901.2.1.
30. THE "END OF LINE RESISTANCE" FOR EACH CIRCUIT SHALL BE TESTED IN THE PRESENCE OF THE PROJECT INSPECTOR AND SHALL NOT EXCEED A MAXIMUM OF 10% OF THE 24 VOLT SYSTEM. EACH COMPONENT IN THE CIRCUIT SHALL NOT EXCEED THE LISTED MANUFACTURER'S MINIMUM OPERATING VOLTAGES. SEE NFPA 72, LOOP RESISTANCE. THIS SECTION REQUIRES THAT ALL INITIATING AND INDICATING (NOTIFICATION APPLIANCE) CIRCUITS TO BE MEASURED AND RECORDED.
31. AFTER INSTALLATION AND TESTING HAS BEEN COMPLETED AND WITNESSED BY THE FIRE INSPECTOR, A COMPLETED NFPA CERTIFICATE OF COMPLIANCE (RECORD OF COMPLETION) SHALL BE ISSUED FROM THE INSTALLING COMPANY AND PROVIDED TO THE INSPECTOR AND DISTRICT.
32. AT COMPLETION OF THE PROJECT, A COPY OF "AS BUILT" DRAWINGS SHALL BE PROVIDED TO THE OWNER/ OCCUPANT ALONG WITH WRITTEN OPERATING INSTRUCTIONS, AND MAINTENANCE/TESTING INFORMATION FOR THE FIRE ALARM SYSTEM. A 24-HOUR EMERGENCY RESPONSE PHONE NUMBER FOR AN ALARM COMPANY REPRESENTATIVE SHALL BE PERMANENTLY INSTALLED ADJACENT TO THE CONTROL PANEL. RETAIN ON PREMISES MINIMUM 5 YEARS PER TITLE 19 SECTION 904.1(B). (3 YRS. PER CFC 901.6.2.)
33. ALL FIRE ALARM SYSTEM DOCUMENTATION SHALL BE PROVIDED TO THE OWNER/ OCCUPANT EITHER IN A DOCUMENT CABINET ADJACENT TO THE FACP OR IN A LOCATION DESIGNATED BY OWNER/OCCUPANT AND THE LOCATION NOTATED AT THE FACP.
34. THE FIRE ALARM CONTRACTOR SHALL COORDINATE, THROUGH THE GENERAL CONTRACTOR, WITH THE DISTRICT TO PROVIDE A DEDICATED PRIMARY TELEPHONE LINE FOR SUPERVISING STATION MONITORING. THE LINE SHALL BE IN PLACE BEFORE FINAL ACCEPTANCE TESTING. SECONDARY MEANS WILL BE BY CELLULAR TRANSMISSION. THE DISTRICT WILL DETERMINE THE CENTRAL STATIONS MONITORING COMPANY.

SYMBOL LEGEND WITH CSFM LISTING NUMBERS

QTY.	SYMBOL	DESCRIPTION	PART #	BACKBOX	MANUFACTURER	CSFM LISTING
-	②	PHOTO SMOKE DETECTOR STANDARD DETECTOR BASE	SIGA-PD SIGA-SB	4 "S" DEEP W/ 3"O" RING	EDWARDS EDWARDS	7272-1657:0331 7300-1657:0120
-	①A	ATTIC HEAT DETECTOR (135° F) STANDARD DETECTOR BASE	SIGA-HRS SIGA-SB	4 "S" DEEP W/ 3"O" RING	EDWARDS EDWARDS	7270-1657:00125 7300-1657:0120
-	W #cd	FIRE ALARM WALL MOUNTED HORN/STROBE	G1F-CVM	4 "S" 2-1/8" DEEP BOX	EDWARDS	7125-1657:0220
-		NAC END OF LINE RESISTER				

SEQUENCE OF OPERATIONS

ACTION \ DEVICE	AC POWER FAILURE	SYSTEM TROUBLE/WIRING FAULT OR OPEN	MANUAL PULL STATION	AREA SMOKE/BEAM DETECTOR	AREA OR ATTIC HEAT DETECTOR	SMOKE/FIRE DAMPER SMOKE DETECTOR
ACTIVATE CONTROL PANEL TROUBLE BUZZER	YES	YES	NO	NO	NO	NO
ACTIVATE CONTROL PANEL SUPERVISORY BUZZER	NO	NO	NO	NO	NO	NO
ACTIVATE CONTROL PANEL ALARM BUZZER	NO	NO	YES	YES	YES	YES
ACTIVATE RELAY FOR CENTRAL STATION MONITORING	YES	YES	YES	YES	YES	YES
ANNUNCIATE AT FACP (ALARM OR TROUBLE)	YES	YES	YES	YES	YES	YES
ANNUNCIATE AT REMOTE ANNUCIATOR PANEL (ALARM OR TROUBLE)	YES	YES	YES	YES	YES	YES
ACTIVATE NOTIFICATION (AUDIBLE/VISUAL) ALARM SIGNAL THROUGHOUT BUILDING	NO	NO	YES	YES	YES	YES
SHUT DOWN ASSOCIATED AIR HANDLING (HVAC) THROUGHOUT BUILDING	NO	NO	NO	YES	NO	YES
1 CLOSE COMBO SMOKE/FIRE DAMPERS THROUGHOUT FLOOR OF ALARM	YES	NO	NO	YES	NO	YES
NOTIFY FIRE DEPARTMENT VIA MONITORING STATION	NO	NO	YES	YES	YES	YES
RETURN LIGHTING TO 100% OF LUMEN OUTPUT UPON ACTIVATION OF SYSTEM	NO	NO	YES	YES	YES	YES
SHUTDOWN AUTONOMOUS PUBLIC ADDRESS SYSTEM UPON ACTIVATION OF SYSTEM	NO	NO	YES	YES	YES	YES
ALARM TO CONSTANTLY MONITOR AREA TO ADMINISTRATION BUILDING	NO	NO	NO	NO	NO	NO

1 PER 2019 CALIFORNIA MECHANICAL CODE 605.8, WHEN THE AUTOMATIC ACTIVATION OF A SMOKE DAMPER OR A COMBINATION SMOKE/FIRE DAMPER OCCURS, THE HVAC SYSTEM SERVICING SUCH DAMPERS SHALL IMMEDIATELY SHUT DOWN. THE HVAC SYSTEM SHALL NOT BE RESTARTED AGAIN UNTIL ALL DAMPERS ARE RESET AND FULLY OPENED. ALL HVAC UNITS CONTAINING SMOKE FIRE DAMPERS AS PART OF THEIR DUCTING SYSTEM SHALL BE PROVIDED WITH RELAYS AND DEVICES FOR IMMEDIATE SHUT DOWN UPON THE ACTIVATION/CLOSURE OF ASSOCIATED COMBINATION SMOKE FIRE DAMPERS.

FIRE ALARM PROJECT NOTES

1. ALL WORK SHALL CONFORM TO THE 2019 EDITION OF TITLE 24, CALIFORNIA CODE OF REGULATIONS.
2. THE INTENT OF THE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF ALTERATION, REHABILITATION, OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH THE 2019 EDITION OF TITLE 24, CALIFORNIA CODE OF REGULATIONS. SHOULD ANY CONDITIONS BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH SAID, TITLE 24 , CALIFORNIA CODE OF REGULATIONS, A CHANGE ORDER, OR SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY THE DIVISION OF STATE ARCHITECTS BEFORE PROCEEDING WITH THE WORK. (REFERENCE: SECTION 4-338 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24 CCR)
3. THE CONTRACTOR SHALL VISIT THE SITE AND BECOME THOROUGHLY FAMILIAR WITH ALL EXISTING CONDITIONS AS WELL AS ALL ASPECTS OF THE SCOPE OF THE WORK FOR THIS PROJECT BEFORE SUBMITTING THE BID. THE CONTRACTOR SHALL INCLUDE ALL RESULTING COSTS IN THE BID. BY THE ACT OF SUBMITTING THE BID, THE CONTRACTOR SHALL BE DEEMED TO HAVE MADE SUCH AN EXAMINATION, HAVE ACCEPTED THE EXISTING CONDITIONS AND HAVE INCLUDED THOSE COST IN THE BID.
4. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN A COMPLETE SET OF CONTRACT DOCUMENTS, ADDENDA, DRAWINGS AND SPECIFICATIONS. FAILURE TO DO SO SHALL NOT RELEASE THE CONTRACTOR FROM DOING THE WORK IN COMPLETE ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS.
5. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH THE EXISTING CONDITION OF THE SITE. ANY COSTS TO INSTALL WORK TO ACCOMPLISH THESE REQUIREMENT WHICH DIFFERS FROM THE WORK AS SHOWN ON THE DRAWINGS SHALL BE INCURRED BY THE CONTRACTOR. DISCREPANCIES, AMBIGUITIES OR CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT DURING BID TIME FOR CLARIFICATION. ANY SUCH CONFLICTS NOT CLARIFIED PRIOR TO BID SHALL BE SUBJECT TO THE INTERPRETATION OF THE ENGINEER AT NO ADDITIONAL COST TO THE DISTRICT.
6. IT IS THE INTENT OF THESE DRAWINGS THAT THE NEW FIRE ALARM SYSTEM SHALL BE INSTALLED INDEPENDENT OF THE EXISTING SYSTEM. THE EXISTING FIRE ALARM SYSTEM SHALL BE MAINTAINED IN OPERATION UNTIL THE NEW FIRE ALARM SYSTEM HAS BEEN INSTALLED, TESTED AND ACCEPTED BY THE OSHPD AHJ FOR OCCUPANCY. IF FOR ANY REASON THE EXISTING FIRE ALARM SYSTEM MUST BE TAKEN OUT OF SERVICE THE CONTRACTOR SHALL NOTIFY THE OSHPD IOR, DISTRICT & LOCAL FIRE CHIEF BEFORE REMOVING THE SYSTEM FROM SERVICE. IN ADDITION, THE CONTRACTOR SHALL PROVIDE QUALIFIED PERSONNEL TO PERFORM FIRE WATCH PER THE REQUIREMENTS OF CFC 901.7 AND 1404.5..
7. MINOR ADJUSTMENTS CAUSED BY UNFORESEEN CONFLICTS WITH OTHER SYSTEMS OR UTILITIES DURING THE INSTALLATION OF THE NEW FIRE ALARM SYSTEM INFRASTRUCTURE SHALL BE COORDINATED IN THE FIELD. MAJOR DEVIATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE DISTRICT, ARCHITECT AND ENGINEER FOR RESOLUTION BEFORE ANY CHANGES ARE PERFORMED. POTENTIAL CONFLICTS SHOULD BE ANTICIPATED AND RESOLVED DURING THE BID SITE VISIT AND PREPARATION PER NOTE 3 ABOVE.
8. CONDUIT AND RACEWAY INFRASTRUCTURE ROUTING SHALL BE INSTALLED ACCORDING TO THE PLAN TO PREVENT UNACCOUNTABLE AND UNANTICIPATED VOLTAGE DROP AND COVERAGE PROBLEMS.
9. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE REQUIREMENTS OF THE CALIFORNIA ELECTRICAL CODE AND ALL ALL APPLICABLE CALIFORNIA AND LOCAL CODES AND REGULATIONS.
10. THE CONTRACTOR SHALL PROVIDE AND KEEP UP-TO-DATE A COMPLETE RECORD SET OF DRAWINGS. THESE PRINTS SHALL BE CORRECTED DAILY AND SHOW EVERY CHANGE FROM THE ORIGINAL OSHPD APPROVED DRAWINGS. THIS SET OF DRAWINGS SHALL BE KEPT ON THE JOB SITE AND SHALL BE USED ONLY AS A RECORD SET. UPON FINAL COMPLETION OF THE WORK, THE RECORD DRAWINGS SHALL BE USED TO GENERATE AN ACCURATE SET OF AS BUILT DRAWINGS FOR SUBMISSION PER THE REQUIREMENTS OF THE SPECIFICATIONS. FINAL AS BUILT DRAWINGS SHALL BE PROVIDED IN AUTOCAD AND HARD COPY FORMAT.
11. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY HARDWARE, FITTINGS, TERMINAL STRIPS, ANCILLARY PARTS, ETC. FOR THE INSTALLATION OF A COMPLETE, COMPLIANT AND CERTIFIED FIRE ALARM SYSTEM. ADDITIONAL QUANTITIES OF FIRE ALARM SYSTEM DEVICES, IF NECESSARY, SHALL BE PROVIDED TO INSURE A COMPLETE AND OPERABLE FIRE ALARM SYSTEM ACCEPTABLE TO DISTRICT AND THE INSPECTOR OF RECORD. DEVICE QUANTITIES SHALL BE REEXAMINED AND VERIFIED BY THE CONTRACTOR BEFORE THE BID IS SUBMITTED.
12. UPON ACCEPTANCE OF THE NEW SILENT KNIGHT FIRE ALARM SYSTEM THE EXISTING FIRE*LITE SYSTEM SHALL BE REMOVED FROM SERVICE AND DEVICES SHALL BE REMOVED AND DEMOLISHED. ALL WIRING AND ACCESSIBLE CONDUIT, RACEWAY AND BACKBOXES SHALL BE REMOVED. ALL SURFACES SHALL BE RESTORED AND REFINISHED TO MATCH ADJACENT SURFACES.

APPLICABLE CODES

THE EQUIPMENT MUST BE LISTED, LABELED AND APPROVED FOR THE APPLICATION SHOWN IN THE CONTRACT DOCUMENTS, AS FIRE ALARM EQUIPMENT COMPLYING WITH THE FOLLOWING REQUIREMENTS:

1. ALL PARTS OF THE 2019 CALIFORNIA BUILDING CODE BECOME EFFECTIVE JANUARY 1, 2017 EXCEPT THE EFFECTIVE DATE FOR THE USE OF THE 2019 BUILDING ENERGY EFFICIENCY STANDARDS [TITLE 24, PART 1, CHAPTER 10, PART 6 AND AFFECTED PROVISIONS IN PART 11 (CAL GREEN BUILDING STANDARDS CODE)] IS JULY 1, 2014 AND THE EFFECTIVE DATE FOR CALIFORNIA ADMINSTRATIVE CODE, PART 1 TITLE 24 IS FEBRUARY 28, 2019. TITLE 24 CODES ARE AS FOLLOWS:
   a. 2019 CALIFORNIA ADMINISTRATIVE CODE (CAC) PART 1, TITLE 24, CCR
   b. 2019 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24, CCR
   c. 2019 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR
   d. 2019 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR
   e. 2019 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24, CCR
   f. 2019 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 CCR
   g. 2019 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24, CCR (BASED ON THE 2018 INTERNATIONAL BUILDING CODE)
   h. 2019 CALIFORNIA FIRE CODE, PART 9, TITLE 24 CCR [BASED ON THE 2015 INTERNATIONAL FIRE CODE (IFC)]
   i. 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE, PART 11, TITLE 24, CCR
   j. 2019 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 CCR
   k. TITLE 19 CCR PUBLIC SAFETY, STATE MARSHALL REGULATIONS. 20017 ASME A17.1 (WITH A12.1A/CSA B44A-08 ADDENDA) SAFETY CODE FOR ELEVATORS AND ESCALATORS
2. NFPA STANDARDS AND GUIDLINES:
   a. NFPA 13 AUTOMATIC SPRINKLER SYSTEMS, 2019 EDITION
   b. NFPA 14 STANDPIPE SYSTEMS 2019 EDITION
   c. NFPA 17 DRY CHEMICAL EXTINGUISHING SYSTEMS 2013 EDITION
   d. NFPA 17A WET CHEMICAL SYSTEMS 2019 EDITION
   e. NFPA 20 STATIONARY PUMPS 2019 EDITION
   f. NFPA 22 STANDARD FOR WATER TANKS FOR PRIVATE FIRE PROTECTION
   g. NFPA 24 PRIVATE FIRE ALARM CODE 2019 EDITION
   h. NFPA 72 NATIONAL FIRE ALARM CODE 2019 EDITION
   i. NFPA 80 FIRE DOOR AND OTHER OPENING EDITION PROTECTIVES 2019 EDITION
   j. NFPA 92 STANDARD FOR SMOKE CONTROL SYSTEMS 2019 EDITION
   k. NFPA 243 CRITICAL RADIANT FLUX OF FLOOR COVERING SYSTEMS 2011 EDITION
   l. NFPA 2001 CLEAN AGENT FIRE EXTINGUISHING SYSTEMS 2012 EDITION
   m. UL 300 FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF RESTAURANT COOKING AREA 2005 EDITION
   n. UL 464 AUDIBLE SIGNAL APPLIANCES 2003 EDITION
   o. UL 521 HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS 1999 EDITION
   p. UL 1971 STANDARD FOR SIGNALING DEVICES FOR THE HEARING IMPAIRED
   q. ICC 300 STANDARD FOR BLEACHERS, FOLDING AND TELESCOPIC SEATING, AND GRANDSTANDS

BUILDING DATA

PROJECT ADDRESS:
TRI-CITY MEDICAL CENTER\
4002 VIST WAY
OCEANSIDE, CALIFORNIA 92056

EXISTING IMAGING OFFICE SPACE TO BE RENOVATED TO MRI AND CARE SUITE. FIRE ALARM DEVICES TO BE ADDED AS REQUIRED TO BRING THE SPACE UP TO CURRENT CODE.

FIRE ALARM SYSTEM CABLE SCHEDULE

TAG	USAGE	WIRE IN CONDUIT	TYPE	MANUFACTURER	PART #
C	CONTROL WIRING	2#14 THHN	THHN	GENERAL	#14 THHN
P	AUX POWER CIRCUIT	2#14 THHN	THHN	GENERAL	#14 THHN
S	SLC - SIGNALING LINE CIRCUIT	2 COND. #16 TWISTED	FPLR	WEST PENN WIRE	990
V	VISUAL NAC - STROBE CIRCUIT	2#12 THHN	THHN	GENERAL	#12 THHN
Z	MONITOR WIRING	2#14 THWN	THWN	GENERAL	#14 THWN

WEST PENN CSFM LISTING: 7161-0859:0101

NOTE: CONTRACTOR IS RESPONSIBLE FOR PROVIDING A TEMPORARY FIRE ALARM SYSTEM AND FIRE WATCH AS REQUIRED THROUGHOUT THE COURSE OF CONSTRUCTION TO ENSURE THE REMODEL SPACE AND ENTIRETY OF THE FIRE ALARM SYSTEM ARE OPERATIONAL AND PERFORMING THE NECESSARY FUNCTIONS TO PROTECT THE BUILDING AND ITS OCCUPANTS.

SEQUENCE OF OPERATION TESTING

PER NFPA FIGURE A.14.6.2.4(9) INSTALLING CONTRACTOR SHALL TEST AND ENSURE PROPER SEQUENCE OF OPERATION OF THE FIRE ALARM SYSTEM.

COMPLETE FIRE ALARM SUBMITTAL

AUTOMATIC ADDRESSABLE FIRE ALARM SYSTEM

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TCMC MRI

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ELECTRICAL:	AG DESIGN, INC. 171 S. ANITA DR. SUITE 111 ORANGE, CALIFRONIA 92868 TEL(714)769-9900
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INTERIORS:	ISLEY DESIGN & PLANNING 1982 PALSERO AVENUE ESCONDIDO, CA 92029 TEL(760)484-0455

LICENSED ARCHITECT — JOSEPH MICHAEL SFEIR — No. C 25543 — REN. 1-31-22 — STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER — No. E 18589 — 12.31.2022 — ELECTRICAL — STATE OF CALIFORNIA

REV.	DESCRIPTION:	DATE:
1	OSHPO COMMENTS	8/3/2020
2	DESIGN CHANGES	8/10/2020
3	OSHPO COMMENTS	10/5/2020
4	OSHPO COMMENTS	11/24/2020
5	DESIGN CHANGES	11/24/2020
6	ACD 0001 DESIGN CHANGES	4/14/2021
7	ACD 0001 DESIGN CHANGES	5/6/2021

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OSHPD APPROVAL STAMP:
OSHPD #: S200813-37-00-ACD0001

SHEET TITLE:
FIRE ALARM COVER SHEET

PROJECT TITLE:
TCMC MRI

PROJECT #: 01907.01/AGD 20-0001
DRAWN BY: STAFF
CHECKED BY: ARS
SCALE: PER TITLE
DATE: 03/11/2020
SHEET NUMBER: FA0-00

Project Name: TRI-CITY MEDICAL CENTER
Panel Location: MRI SUITE

Panel: FAP-S-F

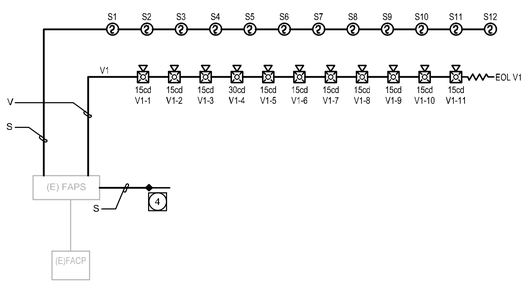
NAC SCHEDULE / VOLTAGE DROP CALCULATION
10 % MAXIMUM VOLTAGE DROP
CIRCUIT OUTPUT VOLTAGE = 20.4 (FOR CALCULATIONS)

CIRCUIT	DESCRIPTION	ESTIMATED CIRCUIT LENGTH	APPLIANCE QUANTITIES/CURRENT DRAW: Strobe 15cd 0.045	Strobe 30cd 0.054	Horn Strobe 15cd 0.045	Horn Strobe 30cd 0.054	Horn Strobe 75cd 0.158	Horn Strobe 110cd 0.202	TOTAL CKT. LOAD (AMPS)	WIRE GAUGE (18, 16, 14, 12)	VOLTAGE DROP TOTALS: ACTUAL VOLTAGE DROP %	ACTUAL VOLTAGE DROP (VOLTS)	TOTAL CIRCUIT RESISTANCE	MAXIMUM ALLOWABLE CKT. LENGTH
#N1	V1	250 ft.	0	0	10	1	0	0	0.254	12	3.82%	0.728	1.0 Ohms	700 ft.
#N2	V2	400 ft.	0	0	0	0	0	0	0.000	12	0.00%	0.000	0.0 Ohms	0 ft.
#N3	V3	330 ft.	0	0	0	0	0	0	0.000	12	0.00%	0.000	0.0 Ohms	0 ft.
#N4	V4	260 ft.	0	0	0	0	0	0	0.000	12	0.00%	0.000	0.0 Ohms	0 ft.
#N5	SPARE	0 ft.	0	0	0	0	0	0	0.000	12	0.00%	0.000	0.0 Ohms	0 ft.
#N6	SPARE	0 ft.	0	0	0	0	0	0	0.000	12	0.00%	0.000	0.0 Ohms	0 ft.
			Appliance Summary											
			0	0	10	1	0	0						

METHOD USED TO CALCULATE PERCENT OF VOLTAGE DROP:
CIRCUIT LENGTH IN FEET X 2) / AMPS X OHMS/FOOT) X 100
20.4 VOLTS

Wire Resistance At
75 Degree s Celsius
Ohm/1000 ft
12GA = 1.93
14GA = 3.07
16GA = 4.89
18GA = 7.77
WIRE RESISTANCE BASED ON TABLE 8 FROM NATIONAL ELECTRICAL CODE (UNCOATED SOLID COPPER WIRE)

NOTE:
LUMP SUM METHOD #A IS USED TO CALCULATE ALLOWABLE VOLTAGE DROP. THIS METHOD ALLOWS FOR A SMALL MARGIN OF SAFETY. TAKING INTO CONSIDERATION THE ACTUAL INSTALLED CIRCUIT ROUTING MAY DIFFER FROM WHAT IS SHOWN ON THE SHOP DRAWINGS. IF THE ACTUAL CIRCUIT LENGTH IS GOING TO EXCEED THE MAXIMUM ALLOWABLE CIRCUIT LENGTH, CONTACT YOU LOCAL SIMPLEX BRANCH.



TRI-CITY MEDICAL CENTER

Panel Location: CORRIDOR CEILING

Panel: FAPS

Regulated Load in Standby

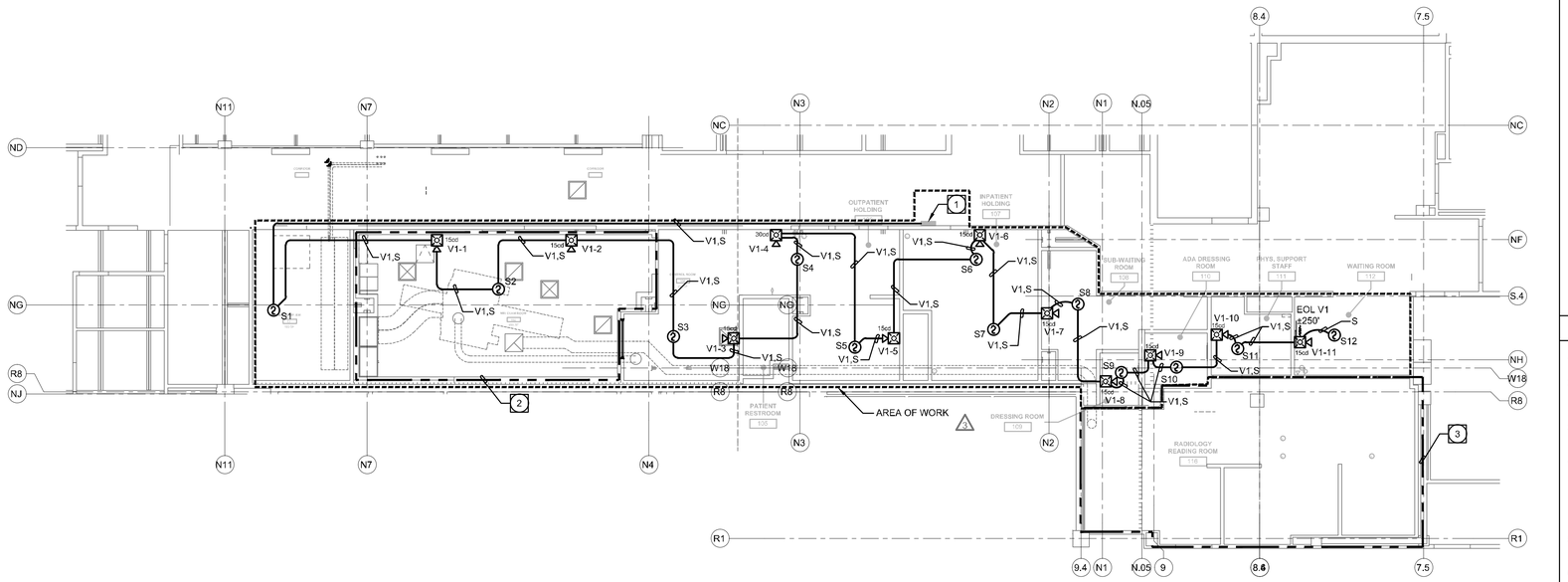
Device Type	Number of Devices		Current (Amps)		Total Current (Amps)
SMOKE DETECTOR	44	X	0.000000300	=	0.0000132
CO/SMOKE DETECTOR	16	X	0.000300000	=	0.0048
HEAT DETECTOR (135 & 190)	56	X	0.000000300	=	0.0000168
MONITOR MODULE	25	X	0.000000350	=	0.00000875
CONTROL RELAY MODULE	30	X	0.000000230	=	0.0000069
POWER SUPPLY	1	X	0.002	=	0.002
			STANDBY LOAD	=	**0.00684565**

Regulated Load in ALARM

Device Type	Number of Devices		Current (Amps)		Total Current (Amps)
SMOKE DETECTOR	44	X	0.000000300	=	0.0000132
CO/SMOKE DETECTOR	16	X	0.000300000	=	0.0048
HEAT DETECTOR (135 & 190)	56	X	0.000000300	=	0.0000168
15cd HORN/STROBE	30	X	0.066	=	1.98
75cd HORN/STROBE	29	X	0.158	=	4.582
15cd STROBE	10	X	0.066	=	0.66
POWER SUPPLY	1	X	1.5	=	1.5
MONITOR MODULE	25	X	0.005000000	=	0.125
CONTROL RELAY MODULE	30	X	0.065000000	=	1.95
			ALARM LOAD	=	**10.802**

Battery Amp Hour Calculation

Standby Load Current (Amps)			Required Standby Time (Typically 24 or 60 *Hours*)		
	0.00684565	X	24	=	0.1642956 AH
Alarm Load Current (Amps)			Required Alarm Time (Typically 5 or 10 *Minutes*)		
	10.80183	X	15	=	2.70 AH
			Sub Total Standby / Alarm Amp Hours		2.86 AH
			Multiply by the Derating Factor	X	1.2
			Total Ampere Hours Required	**=**	**4 AH**



1 NEW PARTIAL FIRE ALARM CEILING PLAN
1/8" = 1'-0"

FLOOR PLAN KEY NOTES

1. EXISTING FIRE ALARM POWER SUPPLY INSTALLED ABOVE CEILING IN CORRIDOR. COORDINATE LOCATION AND AVAILABLE POINTS WITH EXISTING FIRE ALARM SYSTEM PRIOR TO COMMENCEMENT OF WORK.
2. ALL DEVICES INSTALLED WITHIN THE MRI ROOM ARE TO BE COMPLETELY NON-FERROUS AND SUITABLE FOR USE WITHIN AN MRI SUITE. USE BRASS OR SCREW/SCONNECTIONS AT TERMINALS AS REQUIRED. ALL CONDUIT CONNECTIVITY IS TO BE ALUMINUM. AS AN ALTERNATE CONTRACTOR TO INCLUDE PROVISIONS TO PROVIDE AND INSTALL A VESDA "VSL-250" SYSTEM WITHIN THE MRI SUITE. COORDINATE REQUIREMENTS WITH EXISTING FIELD CONDITIONS, MRI VENDOR AND OTHER TRADES AS REQUIRED.
3. ALL FIRE ALARM DEVICES WITHIN EXISTING SPACE ARE TO BE PROTECTED IN PLACE AND MAINTAINED OPERATIONAL. △1
4. PROVIDE SIGNAL CONNECTION TO SMOKE FIRE DAMPERS. REFER TO PLANS FOR QUANTITIES AND LOCATIONS. TYPICAL ALL DEVICES.

GENERAL NOTES

1. ALL EMPTY CONDUIT ARE TO BE PROVIDED WITH AN ADEQUATELY SIZED NYLON PULL ROPE.
2. ELECTRICAL CONTRACTOR SHALL REFER TO MECHANICAL/PLUMBING AND ARCHITECTURAL DRAWINGS FORT LOCATIONS AND CHARACTERISTICS OF ALL EQUIPMENT LISTED IN SCHEDULE. ANY MODIFICATIONS AND/OR ADDITIONAL WORK NECESSARY SHALL BE INCLUDED IN THE BASE BID.
3. ELECTRICAL CONTRACTOR SHALL VERIFY THE LOCATION OF ALL CONNECTION POINTS WITH THE EQUIPMENT INSTALLER PRIOR TO ROUGH-IN.
4. HOME-RUNS ONLY ARE REFERENCED ON PLANS. IN ADDITION CONDUIT PATHWAYS BETWEEN DEVICES ARE NOT INCLUDED TO PROVIDE THE INSTALLING CONTRACTOR THE FLEXIBILITY TO INSTALL ALL CONDUIT AND WIRE IN THE MOST EFFICIENT AND NEAT MANNER POSSIBLE. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL REQUIRED CONDUIT AND CONDUCTORS AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM. REFER TO COVER SHEET E0-00 FOR GENERAL BRANCH CIRCUIT SIZING AND REQUIREMENTS.
5. COORDINATE LOCATIONS AND MOUNTING HEIGHTS FOR ALL DEVICES IN CONTROL ROOM, EQUIPMENT ROOM AND CATH LAB WITH VENDOR DRAWINGS AND ELEVATIONS PRIOR TO ROUGH-IN OF ELECTRICAL.
6. IN INSTANCES WHERE A BRANCH CIRCUIT IS REFERENCED MORE THAN ONCEON A SEPARATE HOME-RUN, THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING A J-BOX ABOVE THE PANELBOARD TO CONSOLIDATE CIRCUITS INTO ONE (1) SINGLE BRANCH CIRCUIT CONNECTION BY SPLICING ALL CONDUCTORS TOGETHER AND ROUTING ONE (1) SINGLE CONDUIT AND GROUP OF BRANCH CIRCUIT CONDUCTORS FROM THE J-BOX TO THE ASSOCIATED TERMINATIONS WITHIN THE PANELBOARD.
7. ALL CONDUIT HOME-RUNS AND BRANCH CIRCUIT CONDUIT RUNS ARE TO INCLUDE A DEDICATED GREEN GROUND CONDUCTOR SIZED PER CEC AND TERMINATED PER MANUFACTURER'S AND APPLICABLE CODE REQUIREMENTS.
8. CONTRACTOR IS TO PROVIDE AND INSTALL A 4S J-BOX ABOVE THE CEILING AT EACH RECEPTACLE/DEVICE LOCATION THEN EXTEND REQUIRED/PROPERLY SIZED CONDUIT AND WIRE FROM J-BOX AND TERMINATE AT EACH DEVICE. IT IS NOT PERMITTED TO CONNECT DEVICES WITH THROUGH PENETRATIONS BETWEEN WALLS TO CONNECT TO DEVICES IN DIFFERENT ROOMS.
9. NO MC FLEX CONNECTIONS ARE PERMITTED FOR USE EXCEPT FOR WHEN CONNECTIONS ARE BEING MADE FROM A J-BOX TO A LIGHT FIXTURE OR OTHER SIMILAR DEVICE INSTALLED ABOVE THE CEILING. ALL OUTLETS/DEVICES INSTALLED WITHIN WALLS ARE TO BE CONNECTED WITH HARD PIPE EMT CONDUIT AND WIRE.

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LICENSED ARCHITECT JOSEPH MICHAEL SFEIR No. C 28543 REN. 1-31-23 STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER No. E 18589 12.31.2022 ELECTRICAL STATE OF CALIFORNIA

1	1	OSHPD COMMENTS	8/3/2020
2	2	DESIGN CHANGES	8/13/2020
3	3	OSHPD COMMENTS	10/2/2020
4	4	OSHPD COMMENTS	11/24/2020
5	5	DESIGN CHANGES	11/24/2020
6	6	ACD 0001 DESIGN CHANGES	4/14/2021
7	7	ACD 0001 DESIGN CHANGES	5/6/2021

REV. DESCRIPTION: DATE:

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OSHPD APPROVAL STAMP:
OSHPD #: S200813-37-00-ACD0001

SHEET TITLE:
1/8" PARTIAL FIRE ALARM CEILING PLAN

PROJECT TITLE:
TCMC MRI

PROJECT #: 01907.01/AGD 20-0001
DRAWN BY: STAFF
CHECKED BY: ARS
SCALE: PER TITLE
DATE: 03/11/2020

SHEET NUMBER: FA4-30

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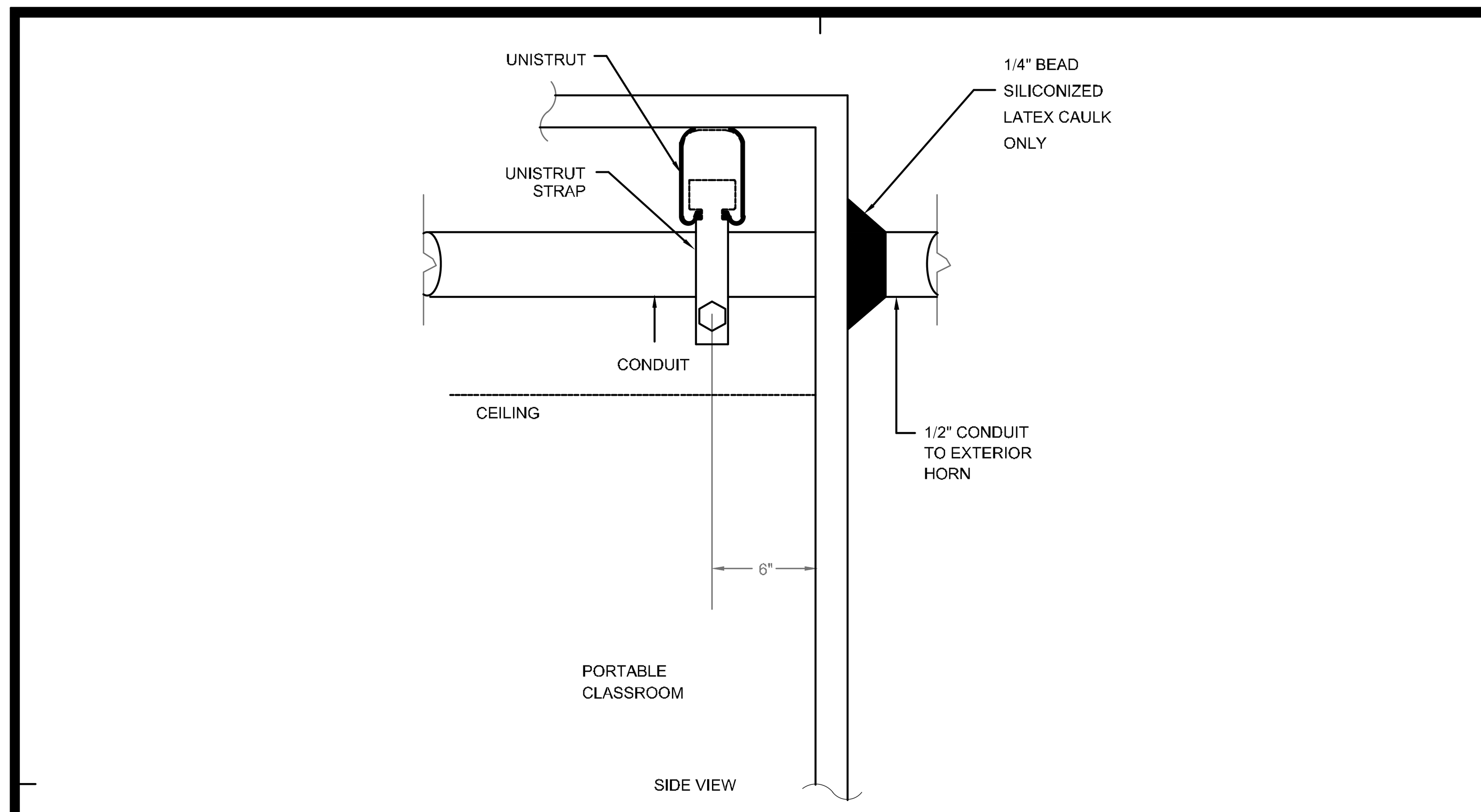
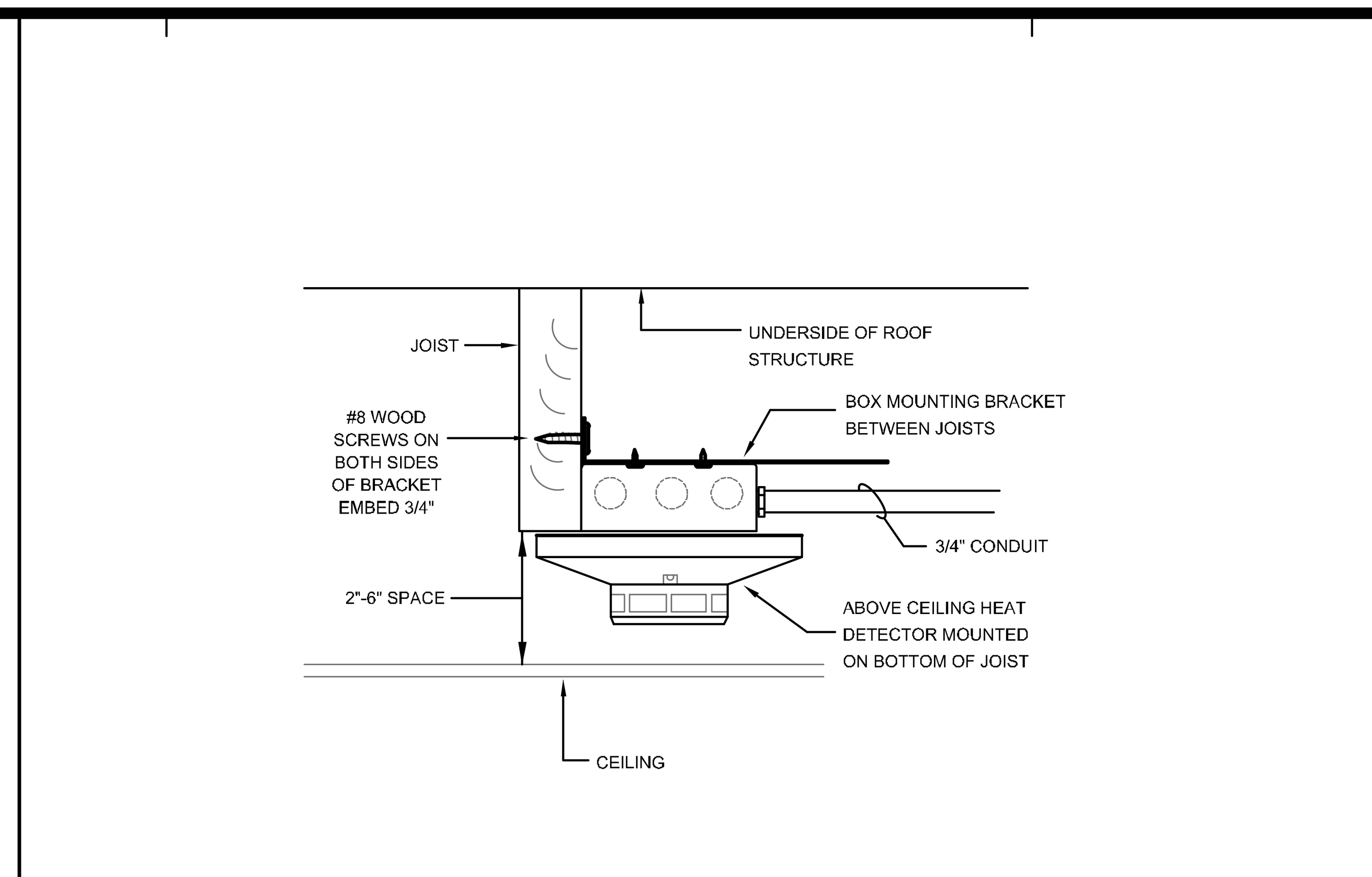
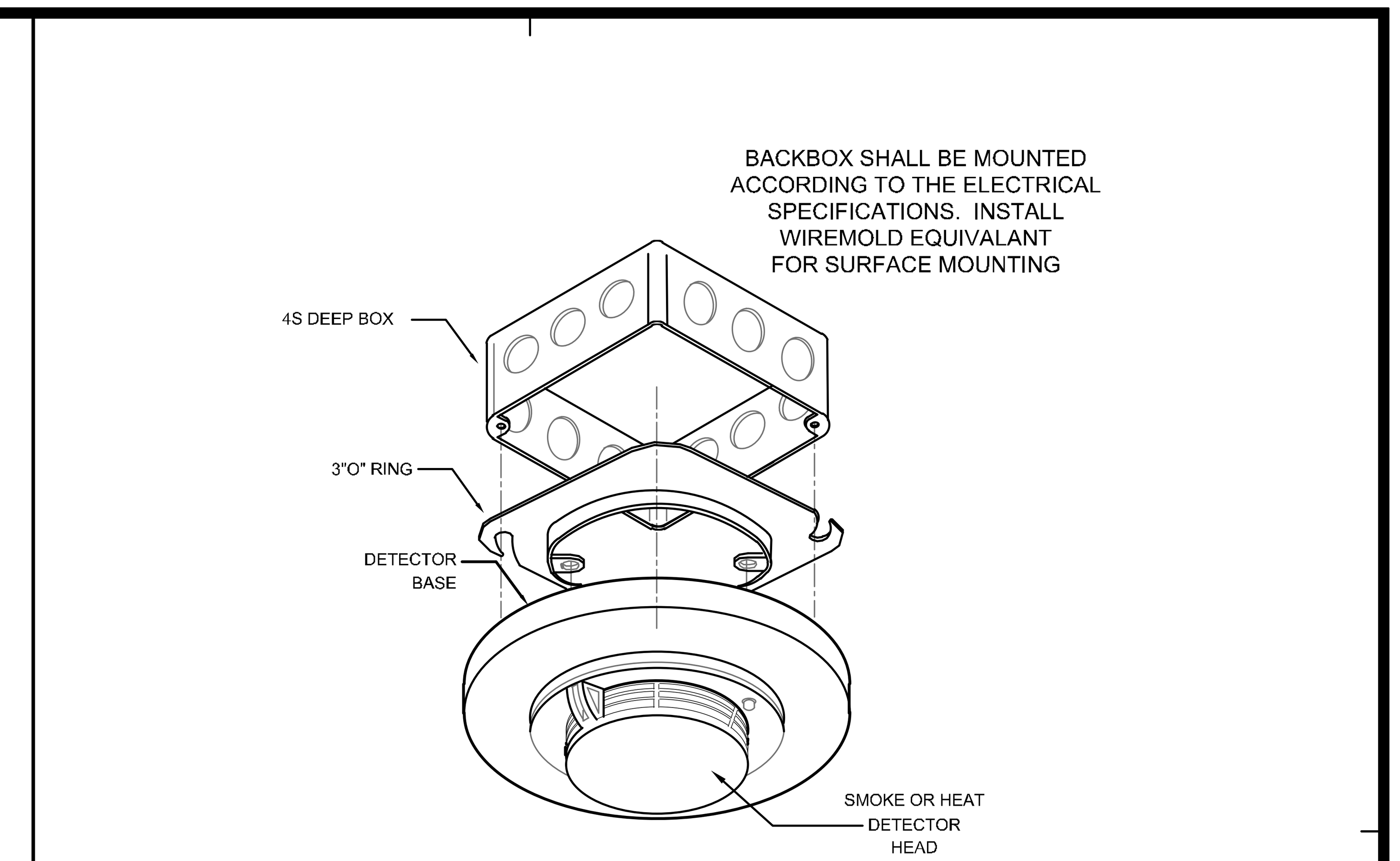


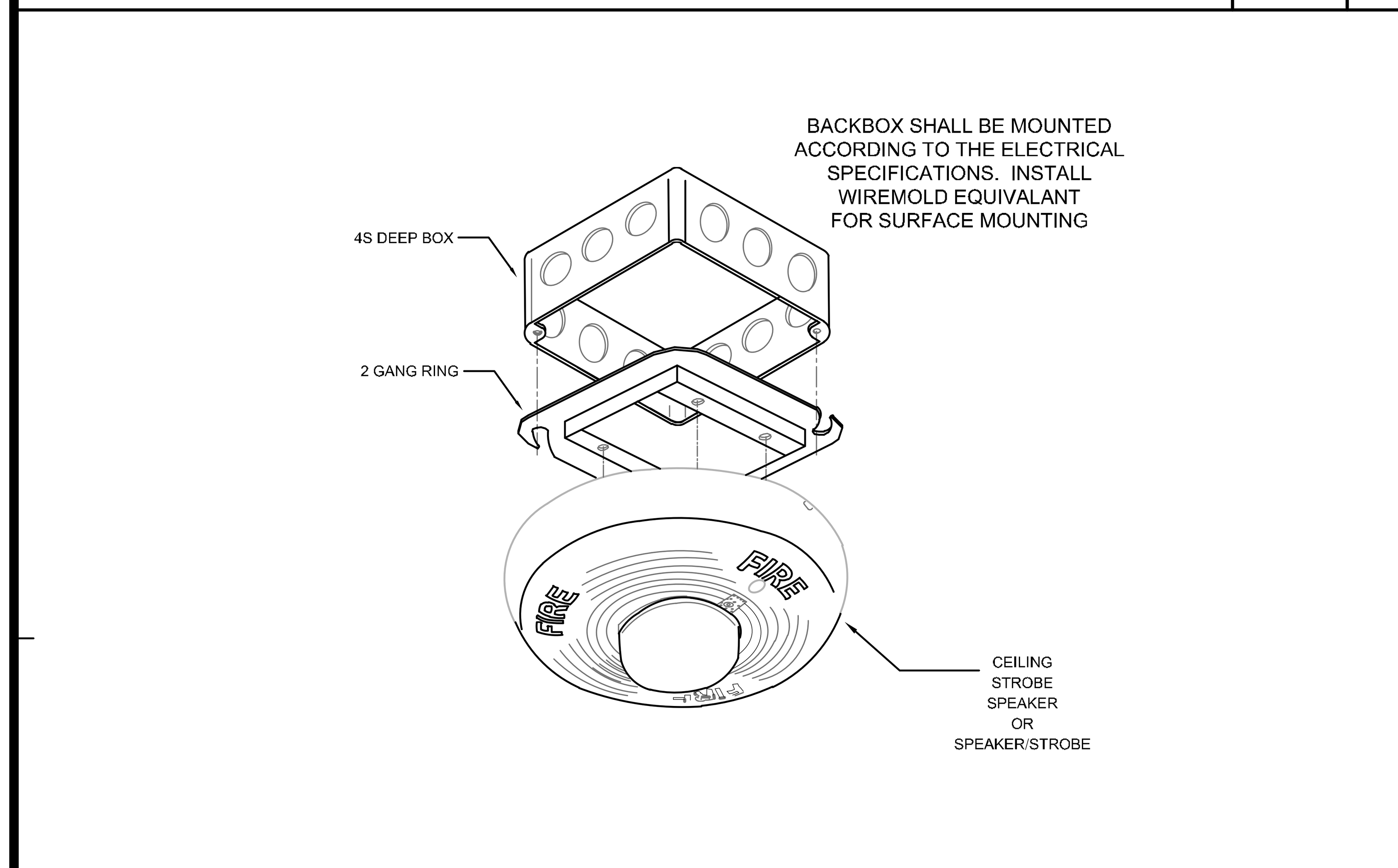
SEAL TIGHT PENETRATION | NOT TO SCALE | 2



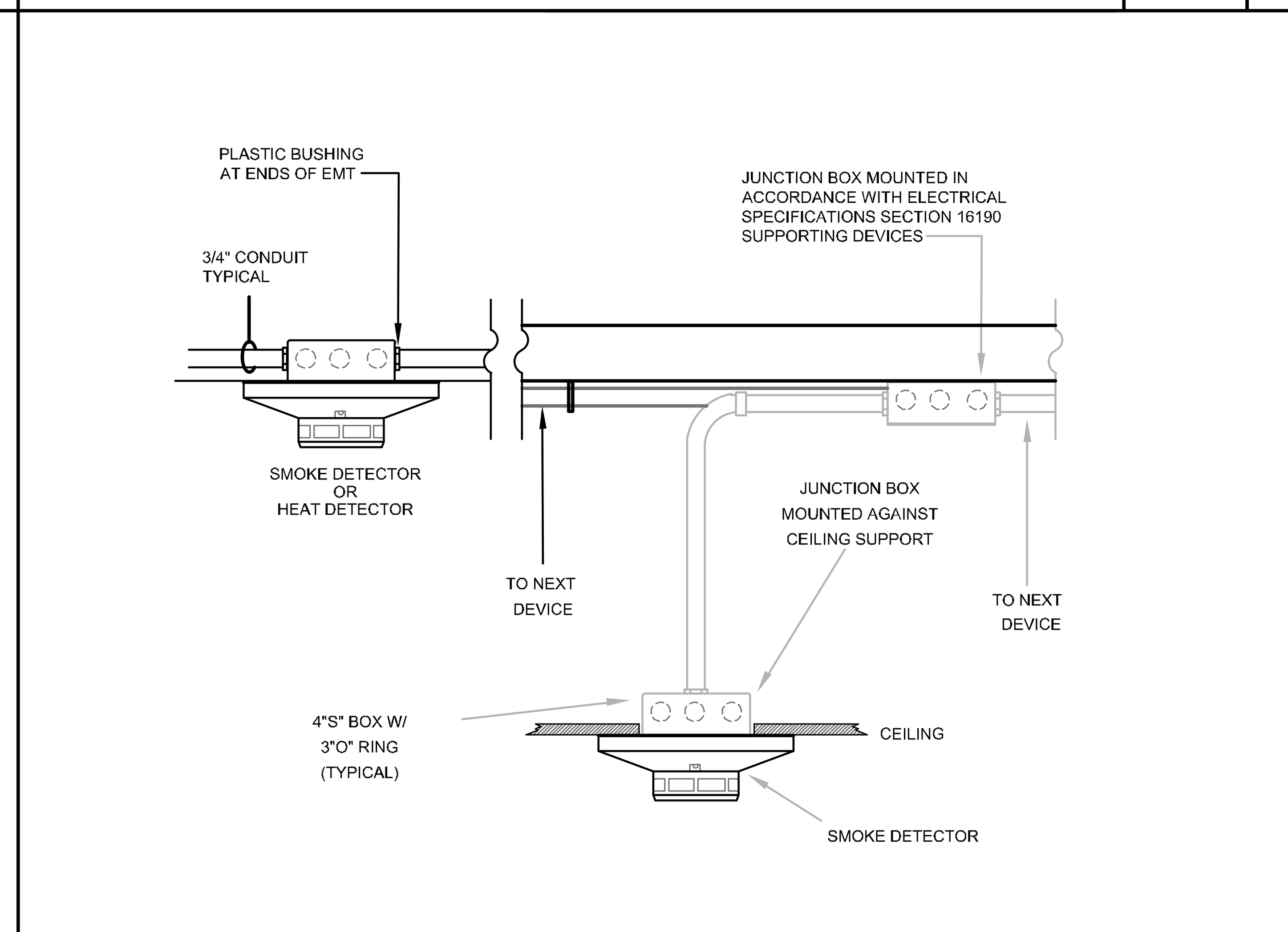
HEAT DETECTOR ABOVE CEILING - LIMITED CLEARANCE | NOT TO SCALE | 3



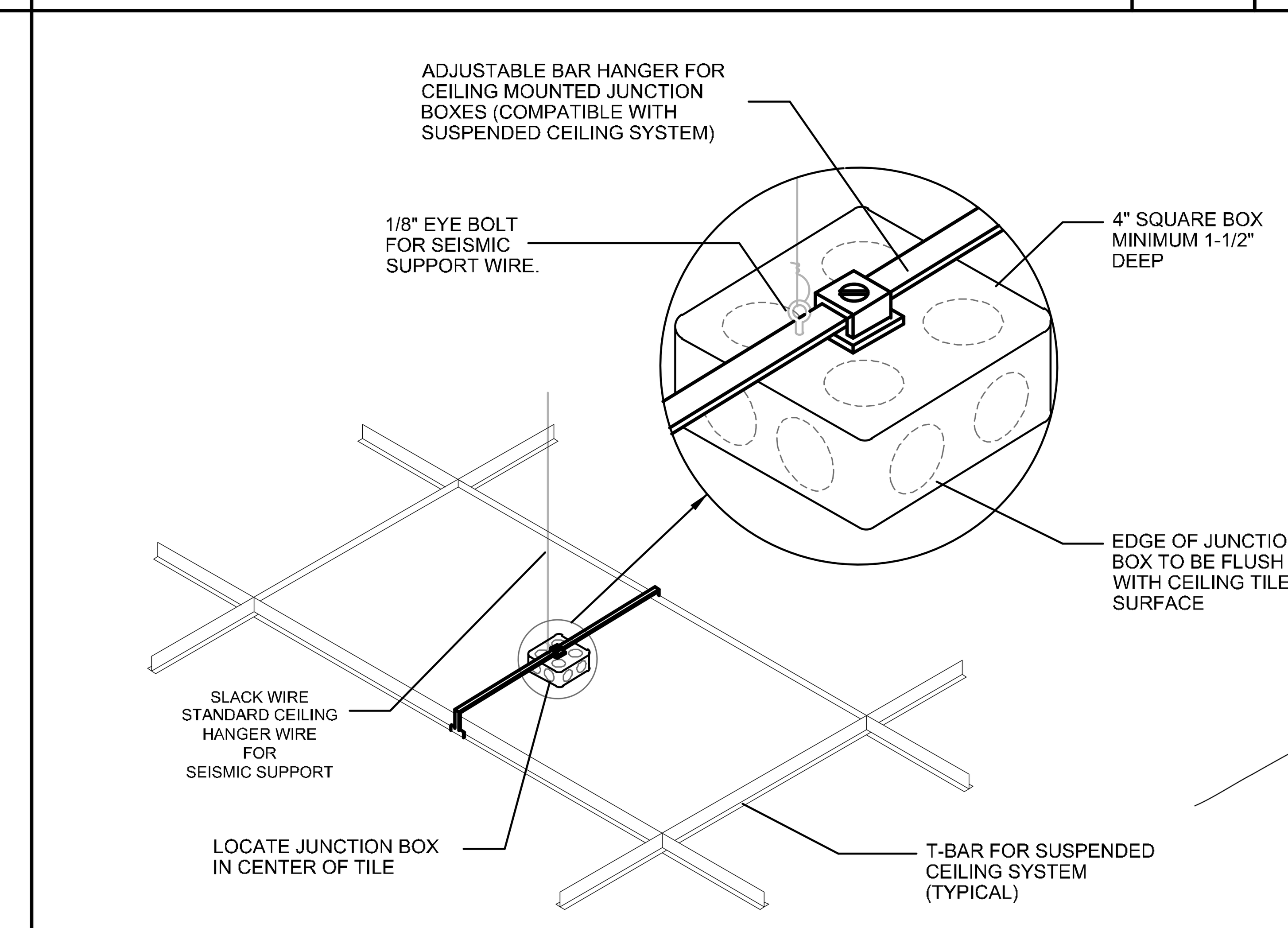
CEILING/ATTIC MOUNT SMOKE & HEAT DETAIL | NOT TO SCALE | 4



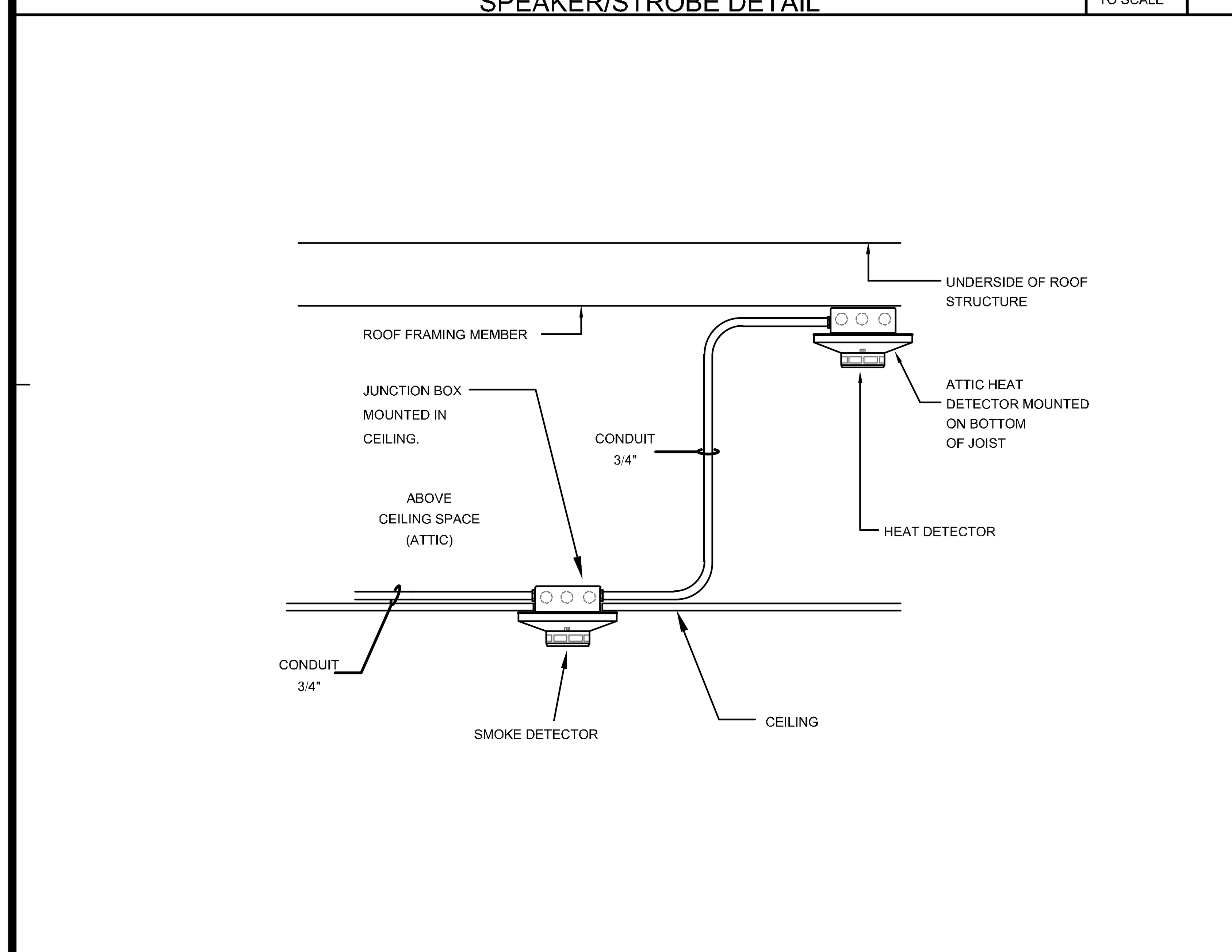
CEILING MOUNT STROBE, SPEAKER & SPEAKER/STROBE DETAIL | NOT TO SCALE | 6



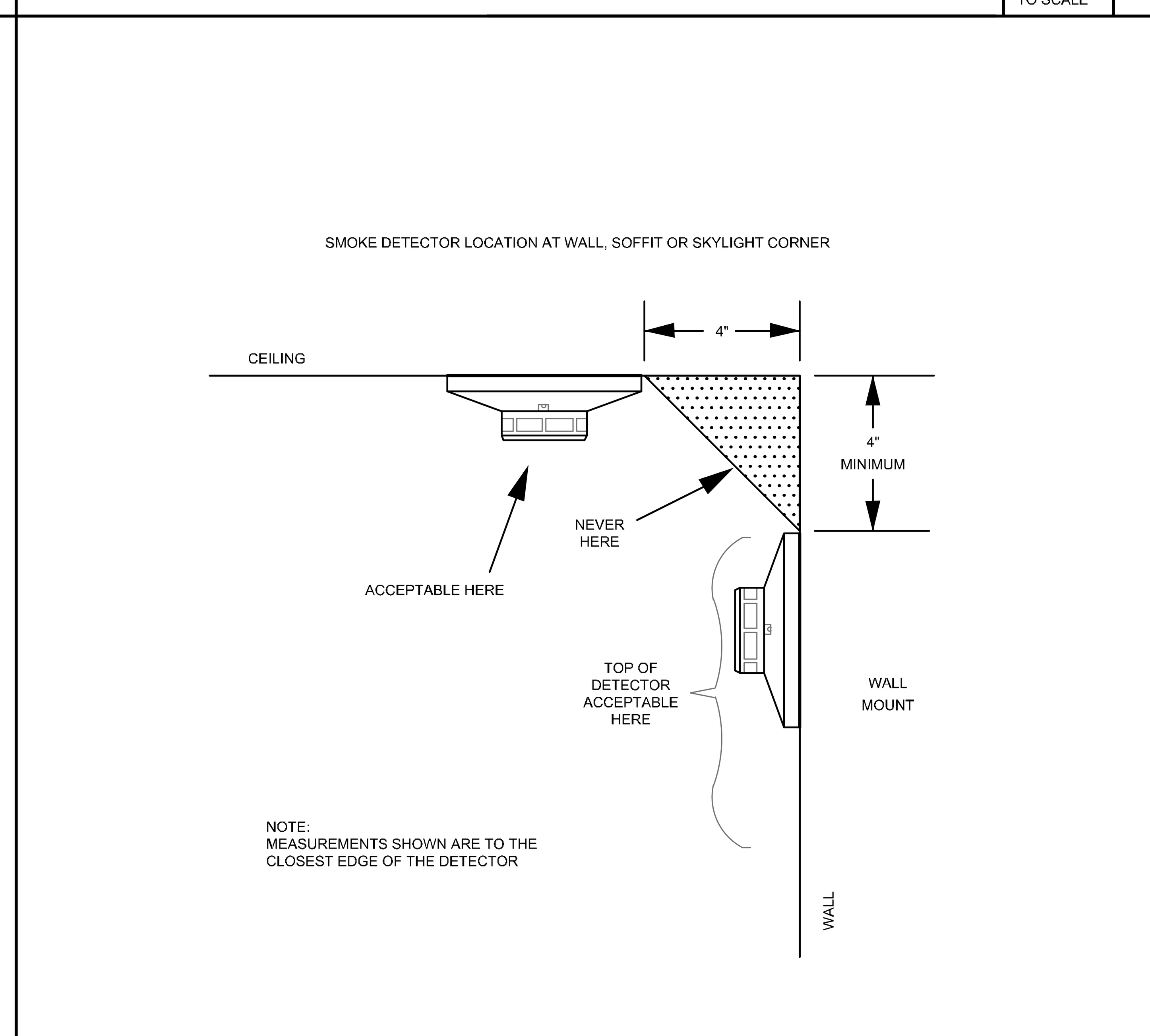
TYPICAL DETECTOR MOUNTING DETAIL | NOT TO SCALE | 7



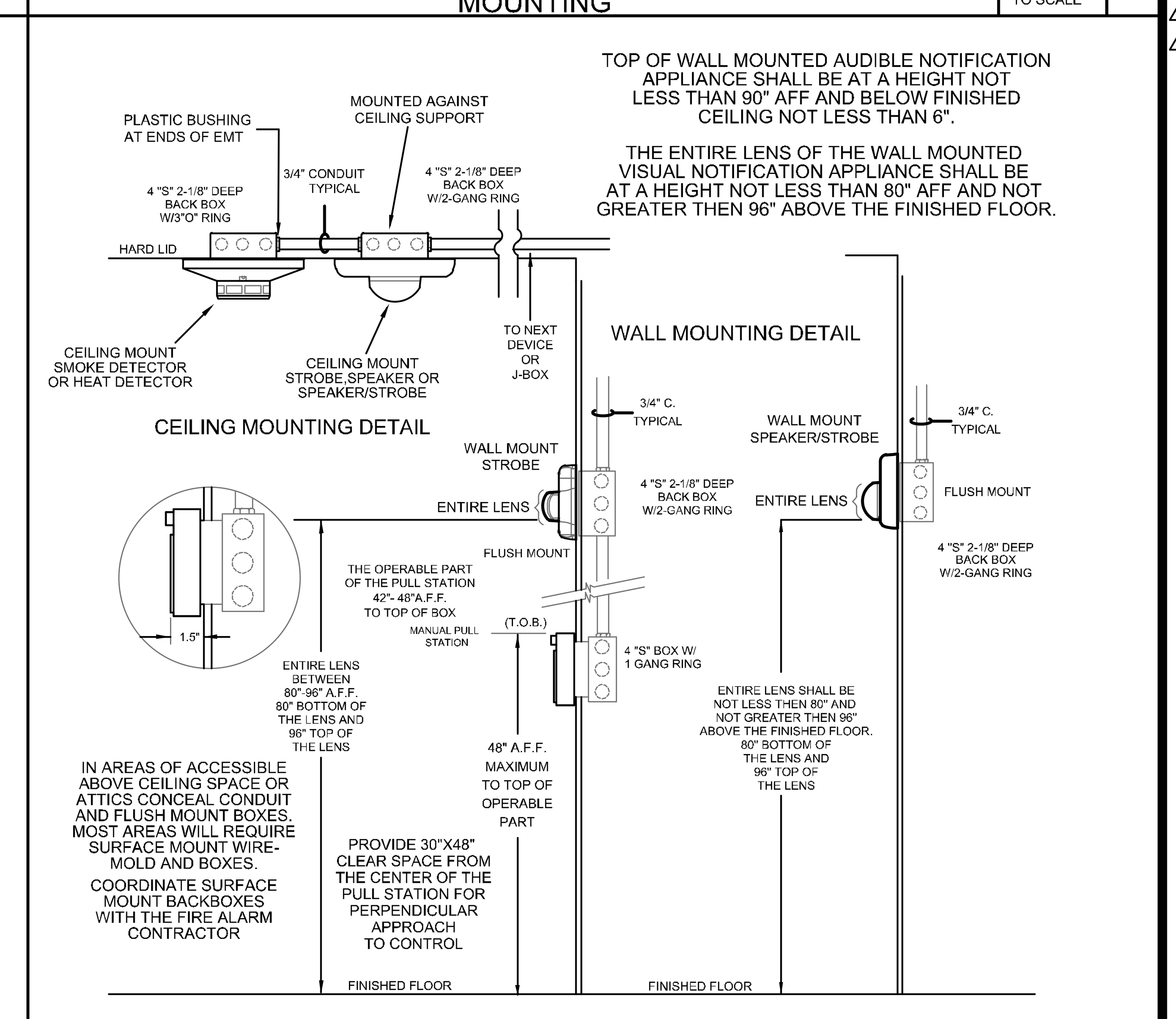
SMOKE DETECTOR, STROBE, SPEAKER & SPEAKER/STROBE MOUNTING | NOT TO SCALE | 8



TYPICAL SMOKE DETECTOR & HEAT DETECTOR MOUNTING | NOT TO SCALE | 10



SMOKE DETECTOR CORNER MOUNTING DETAIL | NOT TO SCALE | 11



MOUNTING HEIGHT DETAIL | NOT TO SCALE | 12

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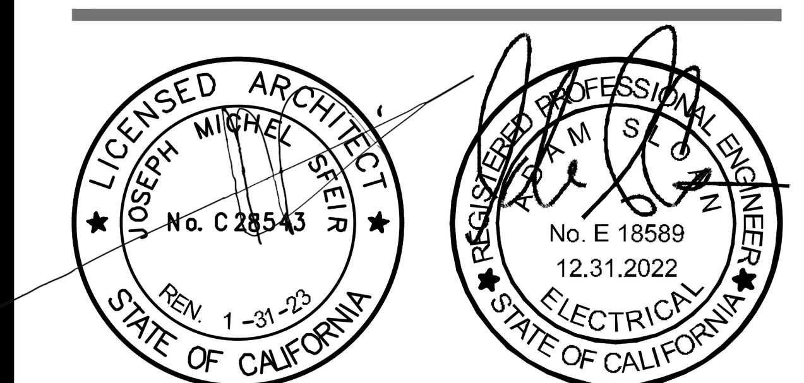

REV	DESCRIPTION	DATE
1	OSHPD COMMENTS	8/3/2020
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7	ACD 0001 DESIGN CHANGES	5/8/2021

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SHEET TITLE:
FIRE ALARM DETAILS

PROJECT TITLE
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DRAWN BY: STAFF
CHECKED BY: ARS
SCALE: PER TITLE
DATE: 03/11/2020

FA5-10

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06.17.2021_AGD ACD0001 w/ Del 6 & 7 Clouds

NOVUS - NURSE CALL LEGEND

SYMBOL	DESCRIPTION	MANUFACTURER	MODEL NUMBER	ROUGH-IN REQUIREMENTS	CONDUIT SIZE	NOTES
DL	DOME LIGHT	WESTCOM	NV-DOME2/V	4 11/16" BACKBOX WITH 2 GANG RING (BY ELECTRICAL CONTRACTOR)	½"	
ZL	ZONE DOME LIGHT	WESTCOM	NV-DOME2/V	4 11/16" BACKBOX WITH 2 GANG RING (BY ELECTRICAL CONTRACTOR)	½"	
NM	NURSE CONSOLE CDT	WESTCOM	FCNS-15 CDT	4" SQUARE BACKBOX WITH 1 GANG RING (BY ELECTRICAL CONTRACTOR)	¾"	CRITICAL BRANCH, 120 VAC 20 AMP, INSTALL BACK BOX BELOW COUNTERTOP, 18" AFF.
DMP	DIGITAL MULTI-PURPOSE PORTAL	WESTCOM	NV-DMP	3 GANG BACKBOX RACO #697 OR SIMILAR (BY ELECTRICAL CONTRACTOR)	½"	
VP	VISUAL PATIENT STATION	WESTCOM	NV-VPS2	4" SQUARE BACKBOX WITH 1 GANG RING (BY ELECTRICAL CONTRACTOR)	½"	
SE	PUSH BUTTOM W/STAFF EMERGENCY CODE BLUE	WESTCOM	NV-PBE2/SE/CB	4" SQUARE BACKBOX WITH 1 GANG RING (BY ELECTRICAL CONTRACTOR)	½"	
EP	EMERGENCY PULL CORD	WESTCOM	NV-EPC2/AP	4" SQUARE BACKBOX WITH 1 GANG RING (BY ELECTRICAL CONTRACTOR)	½"	NO SUFFIX = NYLON CORD, (/P) = POLYURETHANE CORD, (/G) = GLOW-IN-THE-DARK POLYURETHANE CORD.
NV-HRM	HOME RUN MODULE (EXISTING)	WESTCOM	I-DOME HRM	12"x12"x6" HOFFMAN BOX, POWER REQUIREMENTS = 120 VAC 20 AMP		CRITICAL BRANCH, 120 VAC 20 AMP.
	STUB OUT					NOTED SIZE CONDUIT STUBBED TO ACCESSIBLE CEILING SPACE

NURSE CALL CABLE LIST

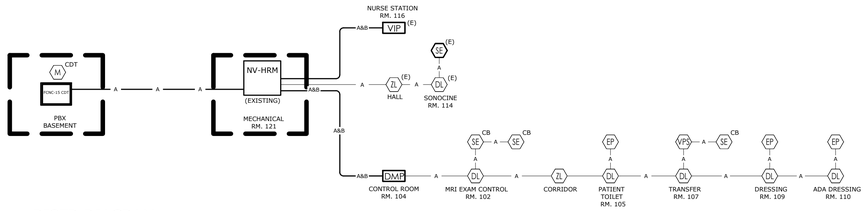
SYMBOL	DESCRIPTION	NOMINAL O.D.
A	CAT 5 - 4 PAIR TWISTED CABLE	.200"
B	18/2 CONDUCTOR - 2 CONDUCTORS/18 GAUGE	.186"

NOTES:
ALL CABLES ARE PLENUM RATED

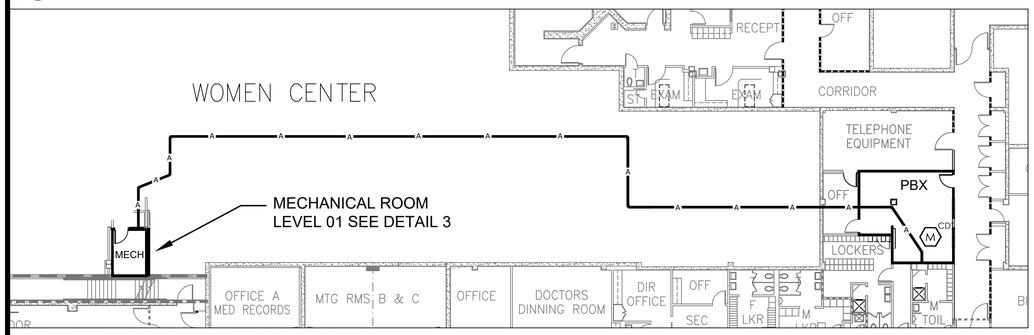
ABBREVIATION:
(E) = EXISTING

REFERENCE NOTES:

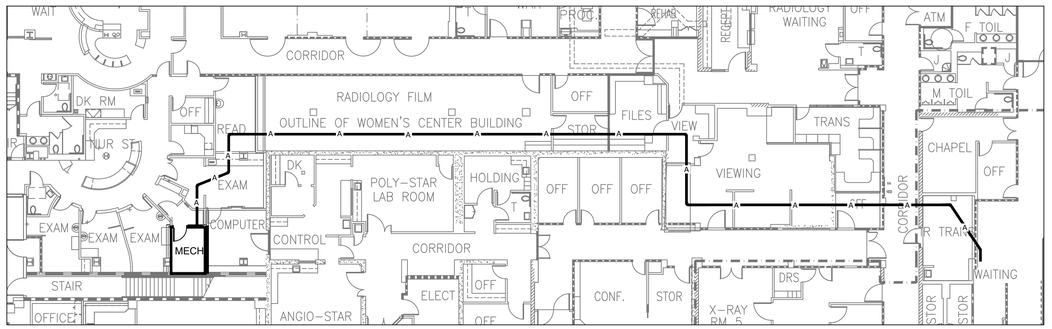
[1] VERIFY EXACT MOUNTING HEIGHTS AND LOCATION WITH OWNER/ARCHITECT.



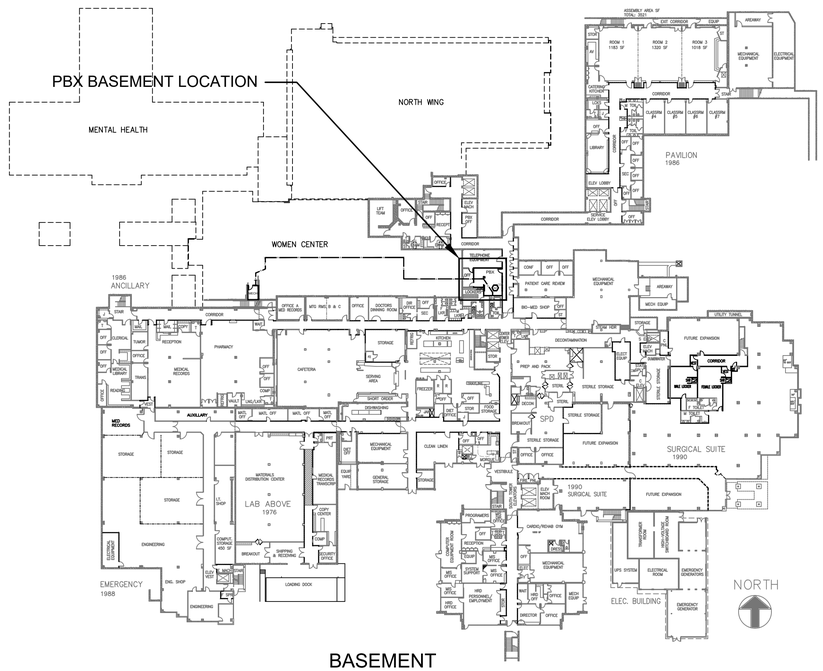
1 RISER DIAGRAM



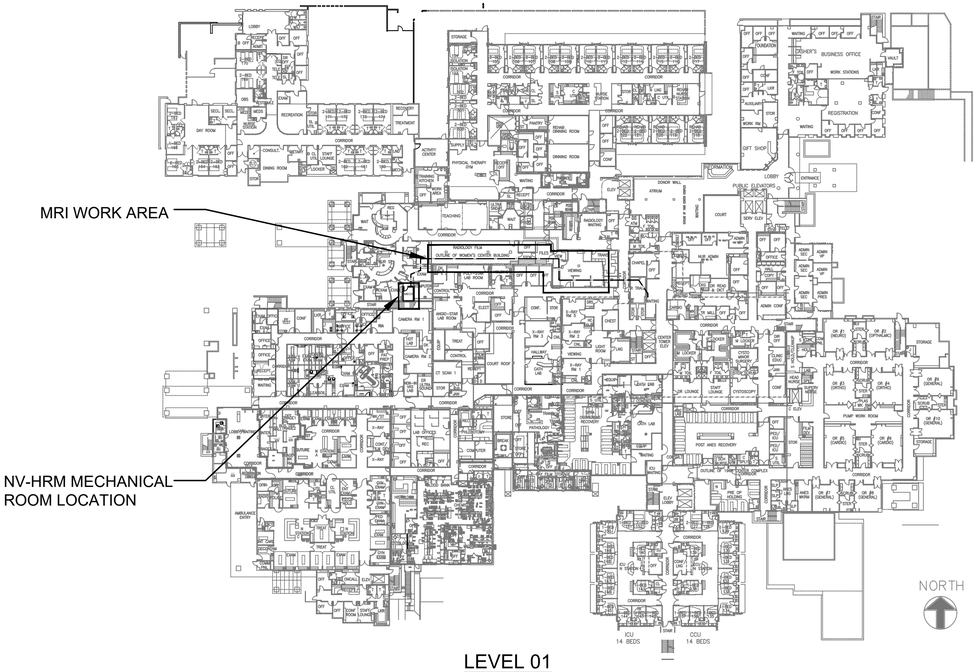
2 PBX BASEMENT NETWORK CABLE ROUTING
Scale: 1/16" = 1'-0"



3 LEVEL 01 MECHANICAL ROOM TO PBX NETWORK CABLE ROUTING
Scale: 1/16" = 1'-0"



BASEMENT



LEVEL 01

West-Com Nurse Call Systems, Inc.
WEST-COM & T.V., INC
2200 CORDELIA ROAD
FAIRFIELD, CA 94534
T: (707) 428-5900
F: (707) 428-5938
www.westcall.com
CA Contractor's License No. 480398
OR Contractor's License No. 170688

S F E I R
A R C H I T E C T S
5151 Shoreham Pl, Suite 265
San Diego, CA 92122
P: 619-299-3917
F: 619-299-5084
www.sfeirarch.com

TCMC MRI

Tri-City Medical Center

4002 VISTA WAY
OCEANSIDE CA, 92056

OWNER:	TRI-CITY MEDICAL CENTER 4002 VISTA WAY OCEANSIDE, CALIFORNIA 92056 TEL(760)940-7709
ARCHITECT:	SFEIR ARCHITECTS 5151 SHOREHAM PL SUITE 265 SAN DIEGO, CALIFORNIA 92122 TEL(619)299-3917
STRUCTURAL:	MIYAMOTO INTERNATIONAL, INC. 5550 BALTIMORE DRIVE, SUITE 100 LA MESA, CA 91942 TEL(858)457-3001
MECHANICAL &PLUMBING:	SC ENGINEERS, INC. 17075 VIA DEL CAMPO SAN DIEGO, CALIFRONIA 92127 TEL(858)946-0333
ELECTRICAL:	AG DESIGN, INC. 171 S. ANITA DR. SUITE 111 ORANGE, CALIFRONIA 92868 TEL(714)769-9900 EXT. 201
SHIELDING:	MRI SHIELDING CORPORATION 3554 BUISNESS PARK DR., SUITE B COSTA MESA, CA 92626 TEL(714)545-7700
INTERIORS:	ISLEY DESIGN & PLANNING 1982 PALSERO AVENUE ESCONDIDO, CA 92029 TEL(760)484-0455

LICENSED ARCHITECT
JOSEPH MICHAEL SFEIR
No. C 28543
REN. 1-31-22
STATE OF CALIFORNIA

REV:	DESCRIPTION:	DATE:
1	OSHPD COMMENTS	8/3/2020
2	DESIGN CHANGES	8/10/2020
3	OSHPD COMMENTS	10/2/2020
4	OSHPD COMMENTS	11/24/2020
5	DESIGN CHANGES	11/24/2020
6	ACD 0001 DESIGN CHANGES	4/10/2021
7	ACD 0001 DESIGN CHANGES	5/8/2021

CONSULTANT

OSHPD APPROVAL STAMP:
OSHPD #: S200813-37-00-ACD0001

SHEET TITLE:
NURSE CALL LEGEND
RISER DIAGRAM
PBX CABLE ROUTING

PROJECT TITLE:
TCMC MRI

PROJECT #: 01907.01
DRAWN BY: WHK
CHECKED BY:
SCALE: PER TITLE
DATE: 3/11/2020

SHEET NUMBER:
NC-000

100% - CONSTRUCTION DOCUMENTS

NOVUS - NURSE CALL LEGEND

SYMBOL	DESCRIPTION	MANUFACTURER	MODEL NUMBER	ROUGH IN REQUIREMENTS	CONDUIT SIZE	NOTES
DL	DOME LIGHT	WESTCOM	NV-DOME2/V	4 11/16" BACKBOX WITH 2 GANG RING (BY ELECTRICAL CONTRACTOR)	¾"	
ZL	ZONE DOME LIGHT	WESTCOM	NV-DOME2/V	4 11/16" BACKBOX WITH 2 GANG RING (BY ELECTRICAL CONTRACTOR)	¾"	
NC[1]	NURSE CONSOLE CDT	WESTCOM	FCNS-15 CDT	4" SQUARE BACKBOX WITH 1 GANG RING (BY ELECTRICAL CONTRACTOR)	¾"	CRITICAL BRANCH, 120 VAC 20 AMP, INSTALL BACK BOX BELOW COUNTERTOP 18" AFF.
DMP	DIGITAL MULTI-PURPOSE PORTAL	WESTCOM	NV-DMP	3 GANG BACKBOX RACO #697 OR SIMILAR (BY ELECTRICAL CONTRACTOR)	¾"	
VP	VISUAL PATIENT STATION	WESTCOM	NV-VPS2	4" SQUARE BACKBOX WITH 1 GANG RING (BY ELECTRICAL CONTRACTOR)	¾"	
SE[1]	PUSH BUTTOM w/STAFF EMERGENCY CODE BLUE	WESTCOM	NV-PBE2/SE/CB	4" SQUARE BACKBOX WITH 1 GANG RING (BY ELECTRICAL CONTRACTOR)	½"	
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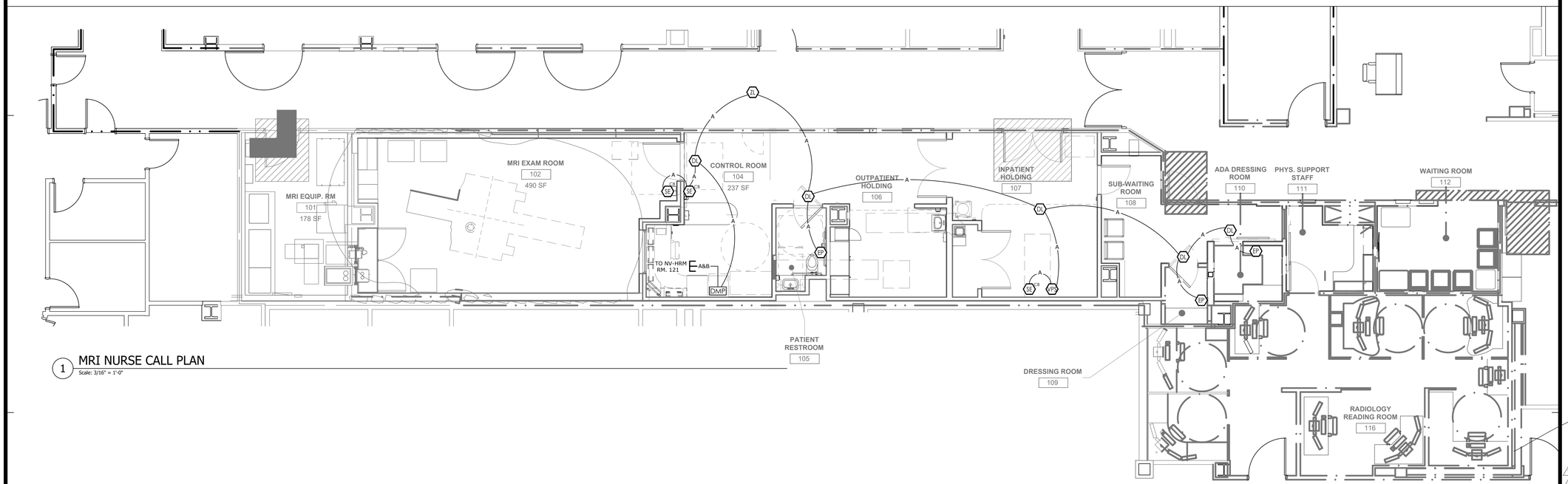
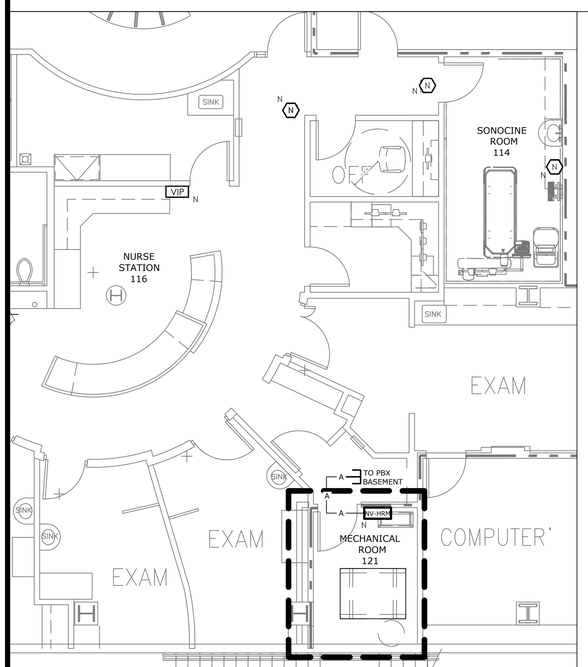


1 MRI NURSE CALL PLAN
Scale: 3/16" = 1'-0"



2 SONO CINO (EXISTING NURSE CALL EQUIPMENT)
Scale: 3/16" = 1'-0"

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CONSULTANT:

OSHPD APPROVAL STAMP:
OSHPD #: S200813-37-00-ACD0001

SHEET TITLE:
MRI NURSE CALL PLAN

PROJECT TITLE:
TCMC MRI

PROJECT #: 01907.01
DRAWN BY: WHK
CHECKED BY:
SCALE: PER TITLE
DATE: 3/11/2020

SHEET NUMBER:
NC-001

100% - CONSTRUCTION DOCUMENTS

GENERAL NOTES:

PURPOSE OF RADIO FREQUENCY INTERFERENCE (RFI) SHIELDING
THE PURPOSE OF THIS ENCLOSURE SYSTEM IS TO SHIELD THE EQUIPMENT WITHIN FROM OUTSIDE RADIO INTERFERENCE THAT COULD CAUSE THE EQUIPMENT TO MALFUNCTION OR PRODUCE ERRONEOUS RESULTS.

MATERIAL SELECTION
TO PRESERVE THE HOMOGENEITY OF THE MAGNETIC FIELD ALL MATERIALS SELECTED FOR THE FABRICATION OF THE ENCLOSURE SYSTEM WHERE FEASIBLE WILL BE NON-FERROUS (IE. COPPER, BRASS, STAINLESS STEEL) WHERE NOT FEASIBLE, HEAVY FERROUS MATERIALS ARE NOT TO EXCEED 3 LBS PER SQUARE FOOT AND ARE TO BE PERMANENTLY ATTACHED TO NOT MOVE AND/OR VIBRATE.

SHIELD PERFORMANCE REQUIREMENT
SHIELD SYSTEM IS TO BE ISOLATED FROM GROUND BY AT LEAST 1000 OHMS
THE REQUIRED ATTENUATION LEVELS ARE 100 DB AT 102.2, 127.27, AND 153.3MHz FOR A 3T PLANEWAVE.

RADIO FREQUENCY TESTING
RF TESTING TO FOLLOW MIL. STD. 285 TESTING PROCEDURES FOR RF ENCLOSURES.
TEST SHALL BE WITNESSED BY THE GE FIELD ENGINEER AND THE TEST REPORT DELIVERED TO THE GE PROJECT MANAGER. MAGNET IN PLACE, DOCK ANCHOR INSTALLED, GE FRAMES INSTALLED, BLANK PANELS INSTALLED FOR FINAL TEST.

FLOOR CONSTRUCTION DETAILS
THE RFI SHIELDED FLOOR CONSISTS OF 3 OZ. COPPER PLANE LAMINATED TO WOOD. ADDITIONAL WOOD IS LAYED OVER R.F. SHIELD TO WHICH THE FINISHED FLOOR MAY BE APPLIED UNLESS OTHERWISE NOTED. (PREP B.O.)

CEILING AND WALL CONSTRUCTION DETAILS
3 OZ. COPPER PLANE WILL BE ATTACHED TO INTEGRATED WALL AND CEILING FRAMING WITH THE PLYWOOD AND ALL SEAMS ARE OVERLAPPED MINIMUM 2". ALL ROUGH FRAMED OPENINGS FOR DOOR, WINDOW, PENETRATION PANEL TO BE WOOD FRAMED 4X4 (B.O.) AND MECHANICAL DUCTS AND OTHERS TO BE 2X4 WOOD (B.O.) FRAMED OR AS NOTED ON DETAILS.

DOOR CONSTRUCTION DETAILS
THE MRI SHIELDED DOOR UNIT ISA FACTORY ASSEMBLY CONSISTING OF THE DOOR FRAME, DOOR LEAF, DOOR SILL, HARDWARE AND PNEUMATIC BLADDER AROUND THE ENTIRE PERIMETER TO FORM THE RF SEAL. SEE SHEET 5 DOOR DETAIL G.C. TO PROVIDE A 120 V NON-DEDICATED OUTLET IN EQUIPMENT ROOM FOR COMPRESSOR.

VIEWING WINDOW CONSTRUCTION DETAILS
THE RFI VIEWING WINDOW ASSEMBLY CONSISTS OF AN ANGLE FRAME AND TWO COPPER-MESH SCREEN SHIELD. SEE SHEET 6 FOR DETAIL.

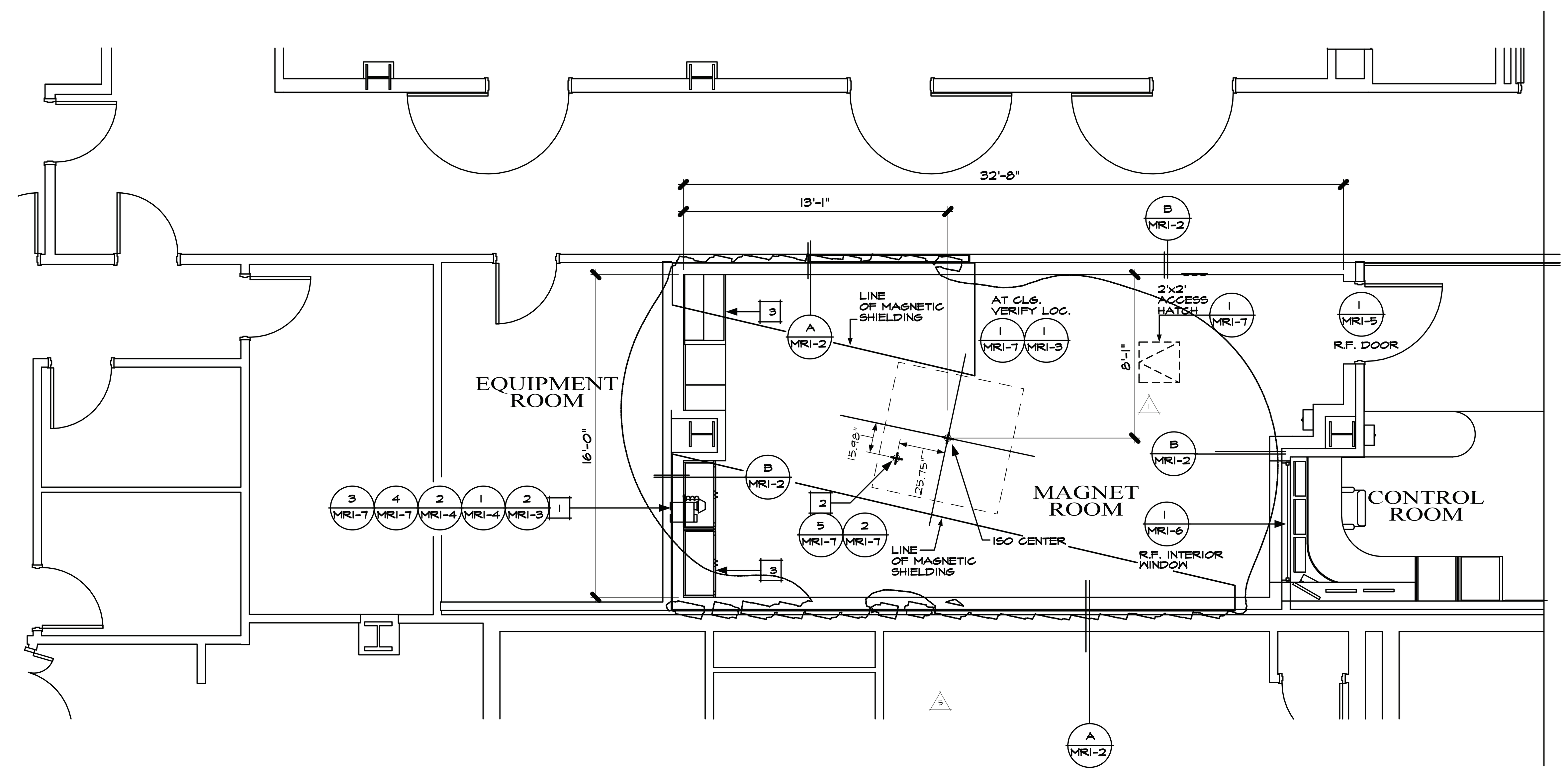
HVAC PENETRATIONS
HONEYCOMB WAVEGRILLS ARE SUPPLIED AT ALL HVAC PENETRATION. SEE SHEET 7. DUCTING (BY OTHERS), AT INTERIOR OF EXAM ROOM, CAN BE ATTACHED TO A FLANGE DIRECTLY ONTO HONEYCOMB TO MAINTAIN THE SINGLE-POINT GROUNDING REQUIREMENT ATTACHED PLENUM TYPE BOX TO ROUGH WOOD FRAMED OPENING WITHOUT TOUCHING THE HONEYCOMB OR R.F. SHIELD. NOTE: IT IS THE RESPONSIBILITY OF THE GC / ARCHITECT TO PROVIDE MRI WITH SIZE, LOCATION, ROUGH WOOD FRAMED OPENING OF HVAC DUCTING.

REMOVABLE PANEL FEATURE
ONE WALL PANEL / ROOF HATCH MAY BE REMOVED TO ALLOW THE EQUIPMENT TO ENTER AND / OR EXIT THE ENCLOSURE. THE CLEAR OPENING AT THE LOCATION SHOULD BE PER EQUIPMENT MANUFACTURER'S SPECIFICATIONS UNLESS NOTED OTHERWISE.

ELECTRICAL / DATA / PHONE / SMOKE FILTERS
ALL ELECTRICAL POWER, DATA, SMOKE, PHONE SIGNAL WIRES ENTERING THIS ROOM MUST BE FILTERED. ELECTRIC, PHONE, DATA, SMOKE DETECTION FILTERS PROVIDED BY MRI CORP. ANY FILTERS NEEDED BEYOND ORIGINAL BUDGET PROVIDED SHALL BE EXTRA.

STRUCTURAL NOTES:
THESE DRAWINGS ARE PREPARED FOR R.F. SHIELDING INSTALL PURPOSE ONLY. ARCHITECT, ENGINEER OF RECORD, AND GENERAL CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ROOM DIMENSIONS AND CONSTRUCTION. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS AND CONSTRUCTION MATERIAL OTHER THAN R.F. SHIELDING ASSEMBLY AND FRAMES. ALL WORK AND MATERIAL SHALL CONFORM TO THE 2019 CALIFORNIA BUILDING CODE.
THE SEISMIC PARAMETERS ARE:
-SEISMIC DESIGN CATEGORY = D
-OCCUPANCY CATEGORY = IV
-SDS = 1.00
-I = 1.5

NOTE:
1. VERIFY DIMENSIONS AND LOCATIONS OF EQUIPMENT, WINDOW, DOOR, WITH FINAL ARCHITECTURAL DRAWINGS.
2. REFER TO MAGNET SUPPLIER DRAWINGS AND ARCHITECTURAL DRAWINGS FOR MORE DETAILS SUCH AS BASE PLATES FOR SYSTEM AND EQUIPMENT LAYOUT.
3. ARCHITECT AND STRUCTURAL ENGINEER OF RECORD SHALL BE RESPONSIBLE FOR ALL STRUCTURAL DESIGN AND INFORMATION. THIS DRAWING ONLY COVERS RF DESIGN DETAILS. RF SHIELD CONTRACTOR DOES NOT TAKE ANY LIABILITY FOR STRUCTURAL INTEGRITY.
4. ANY SHIELDING QUESTIONS OR MODIFICATIONS TO THESE DRAWINGS, PLEASE CALL MRIC 714-545-7700
5. GE PANEL FRAMES AND VIBROMATS TO BE INSTALLED BY MRIC, PROVIDED BY GE.
6. GE REQUIRES THAT CONCRETE FLOOR FLATNESS / LEVELNESS BE WITHIN 1/8" OVER AN AREA OF 246" X 85" AS SHOWN ON GE PIM.
7. MAGNET PATIENT TABLE DOCKING ANCHOR TO BE LOCATED BY GE FIELD ENGINEER, PROVIDED AND INSTALLED BY MRIC. ANCHOR TO BE DROP IN TYPE AND REMOVABLE.
8. RF DOOR SWITCH TO BE SUPPLIED BY MRIC AND INSTALLED BY ELECTRICIAN.
9. M36 SILICON STEEL MAGNETIC SHIELDING TO BE PROVIDED AND INSTALLED BY MRIC PER GE DRAWINGS SHEETS SH-1 AND SH-2.



PLAN VIEW

ANY DEVIATION FROM THESE DRAWINGS SHALL BE PROCESSED AND CONSULTED THROUGH MRI CORP. TO AVOID CONSTRUCTION DELAYS, EVENTUAL SHIELDING AND REQUIRED ISOLATION CONFLICTS.

KEY NOTES

1. SINGLE SPRINKLER PIPE PENETRATION REQUIRED FOR WET SYSTEMS AT PENETRATION PANEL AREA. MEDICAL GAS WAVEGUIDES WILL BE INSTALLED ADJACENT TO SINGLE SPRINKLER WAVEGUIDE.
2. CRYOGEN PIPE WAVEGUIDE WILL BE 16 GA. S.S. WELDED TUBE 8" IN O.D. DIAMETER AT SHIELD TO MATCH G.E. 8" STAINLESS STEEL TUBING.
3. CABINET TOE BASE MUST BE GLUED TO FLOOR. DO NOT ANCHOR, PUNCTURE, NAIL, TOE BASE TO THE SHIELD. BACKING BY OTHERS.

OSHPD 6/18/2020

MRI CORPORATION
3554 Business Center Drive, Suite B
Costa Mesa, CA. 92626
Ph. (714) 545-7700 Fax (714) 545-7701

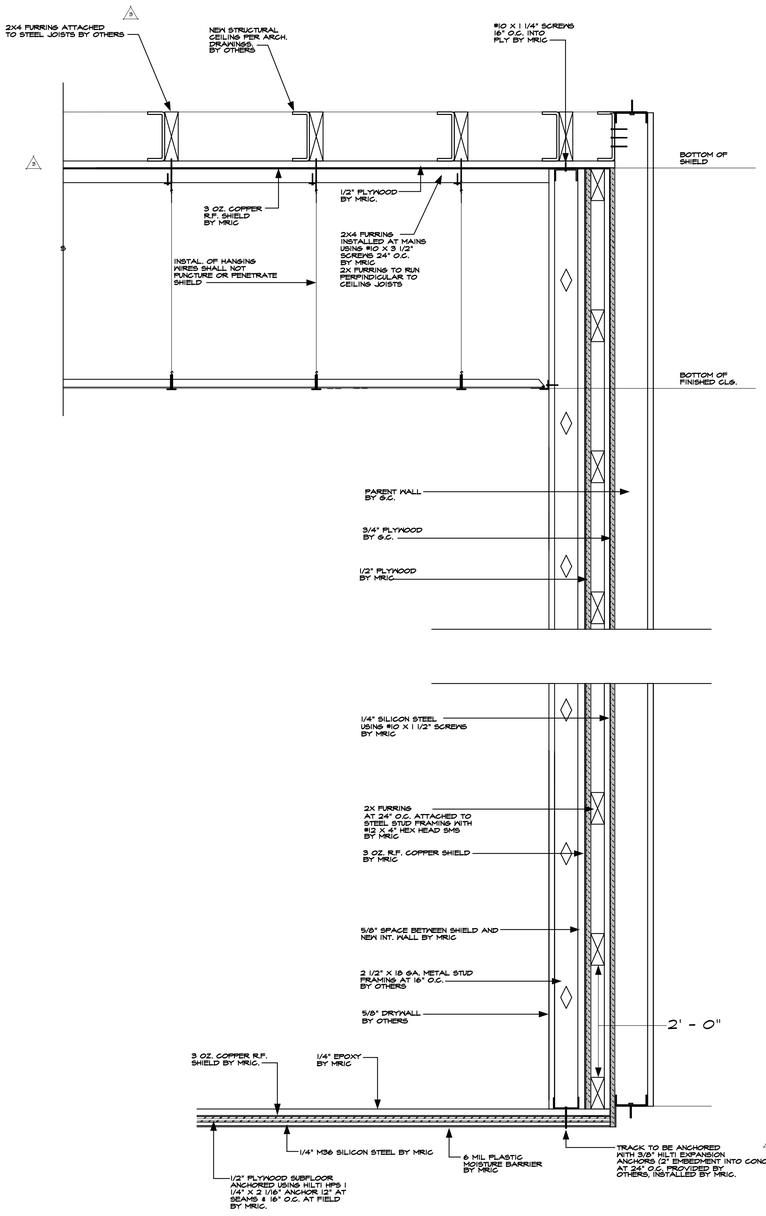
LICENSED ARCHITECT JOSEPH MICHAEL SPEIR No. C28543 REN. 1-31-23 STATE OF CALIFORNIA

TRI CITY MEDICAL CENTER
OCEANSIDE, CALIFORNIA

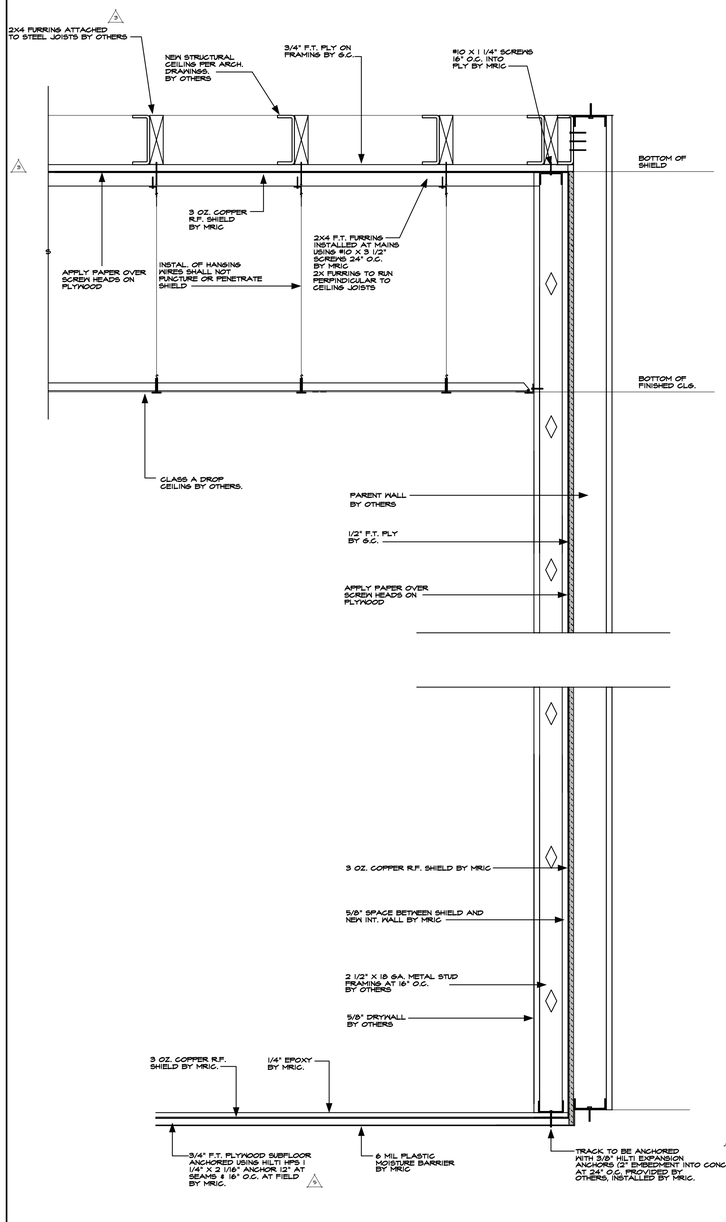
OSHPD# S200813-37-00

DRAWN: MP
CHECKED: RR
DATE: 4/29/21
SCALE: NONE
JOB # 1957
100% CONSTRUCTION DRAWINGS

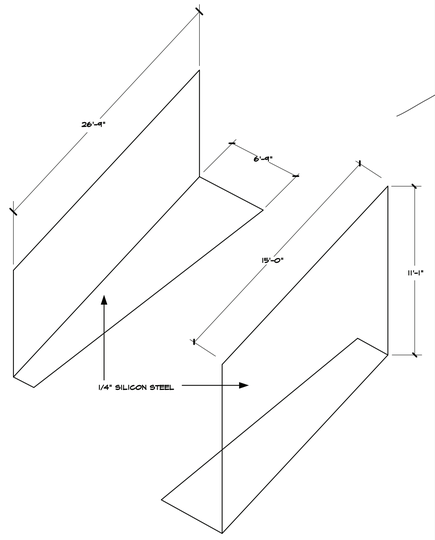
MRI . 1



SECTION-A R.F. SHIELDED WALL WITH MAGNETIC STEEL ISOLATION



SECTION-B TYPICAL 3 OZ. COPPER R.F. SHIELD WALL SECTION



MAGNETIC SHIELDING

MRI CORPORATION
3554 Business Center Drive, Suite B
Costa Mesa, CA. 92626
Ph. (714) 545-7700 Fax (714) 545-7701

LICENSED ARCHITECT
JOSEPH WIGBELSTEIN
No. C28543
REN. 1-31-23
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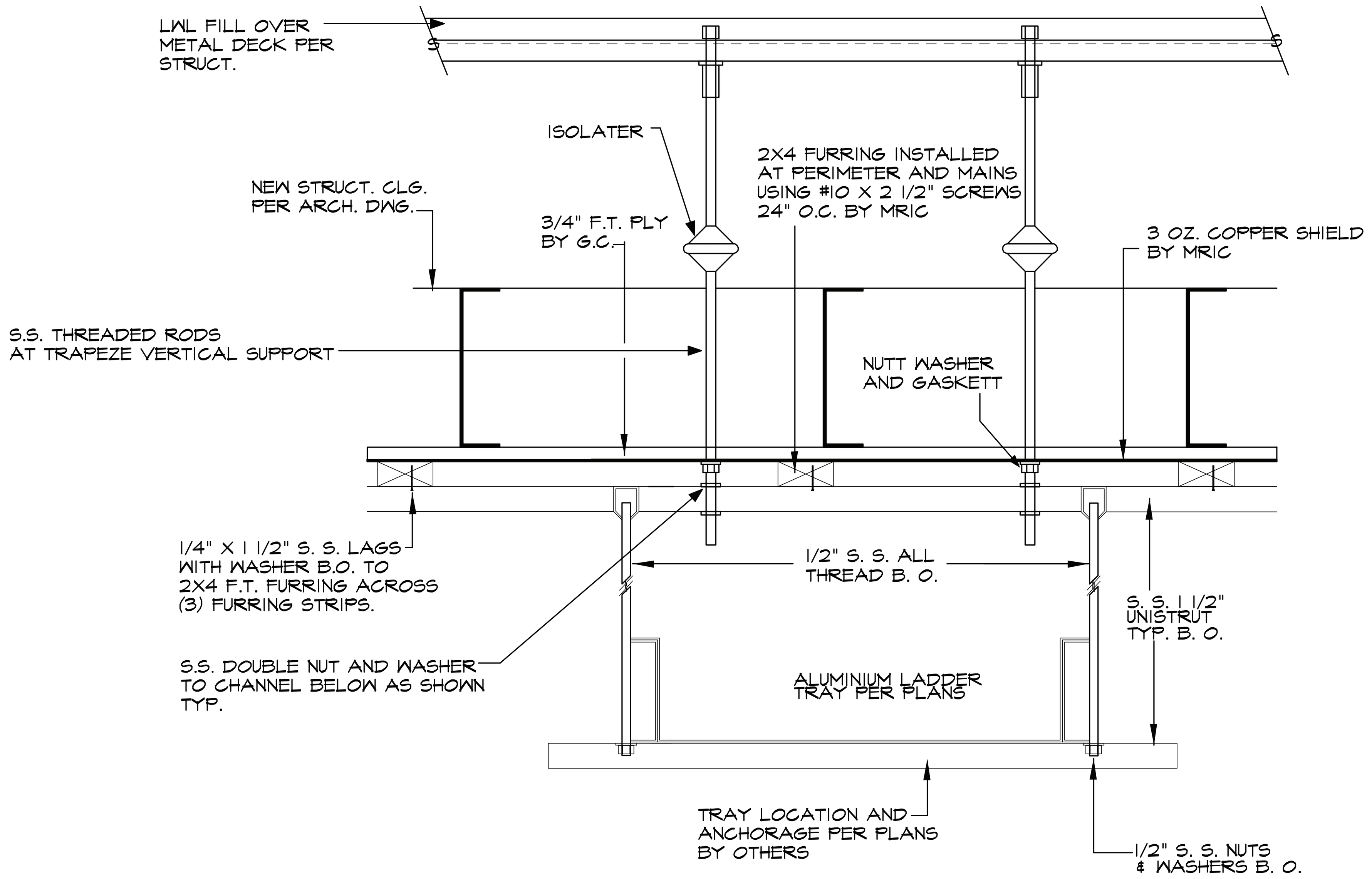
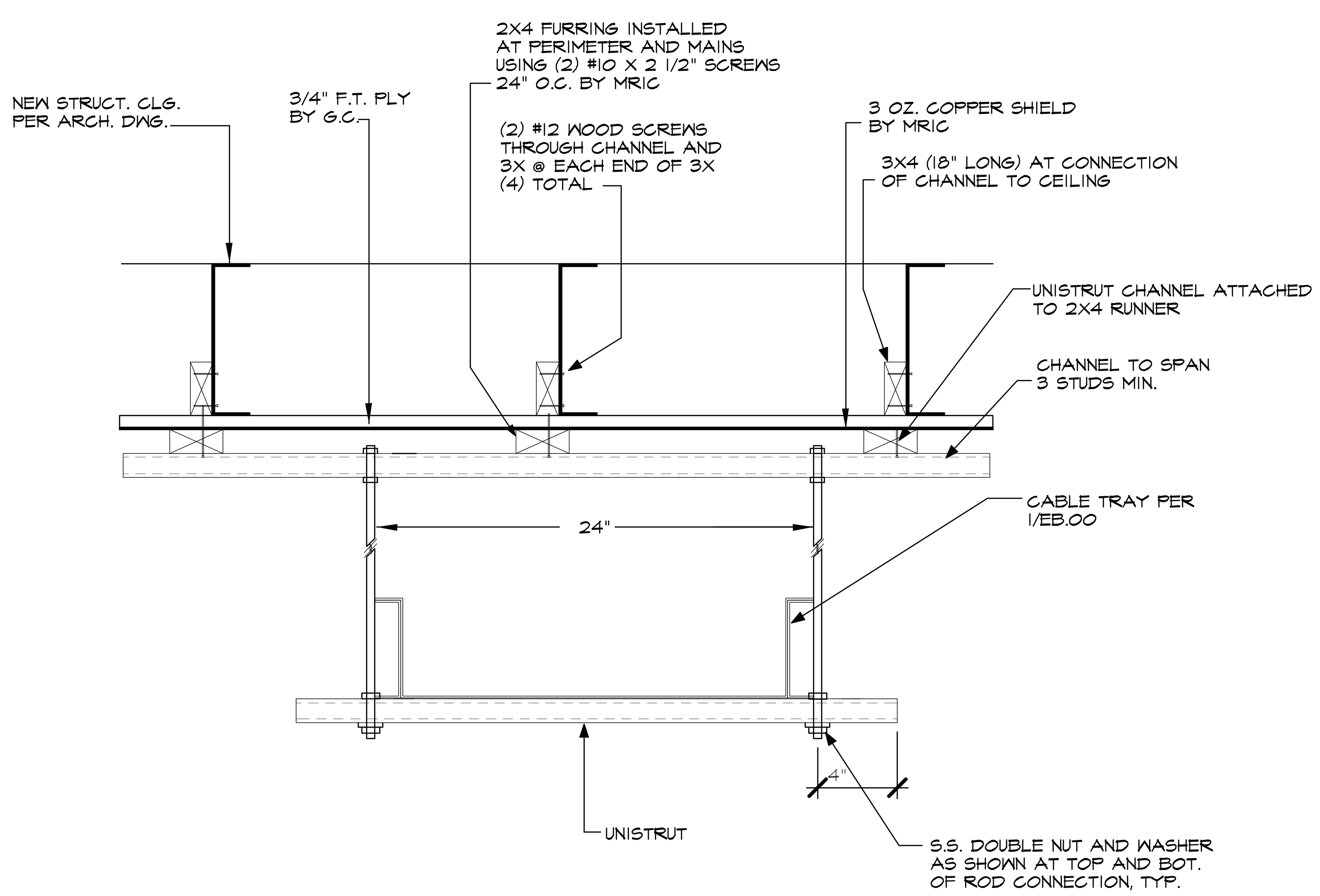
100% CONSTRUCTION DRAWINGS

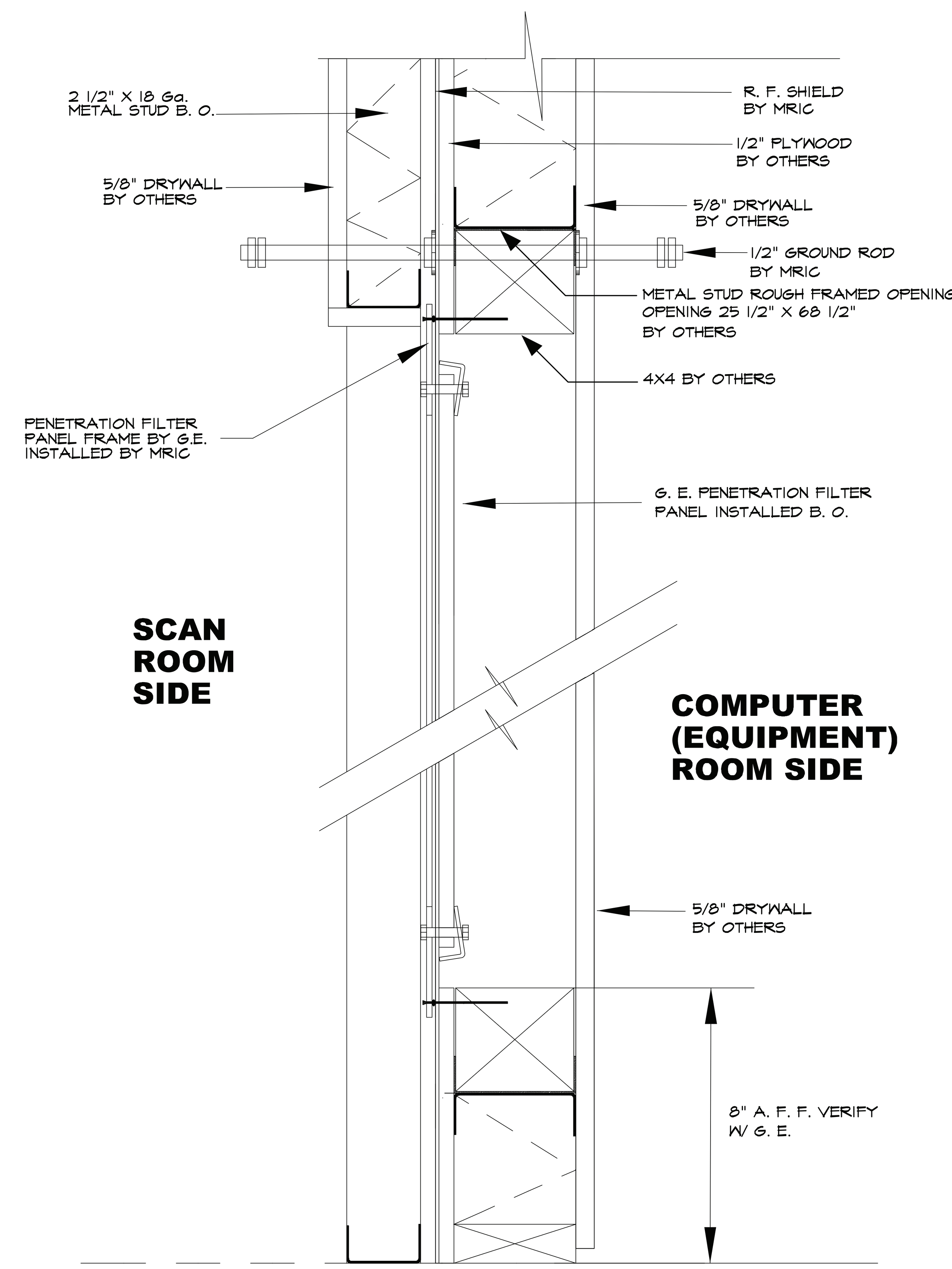
MRI . 2



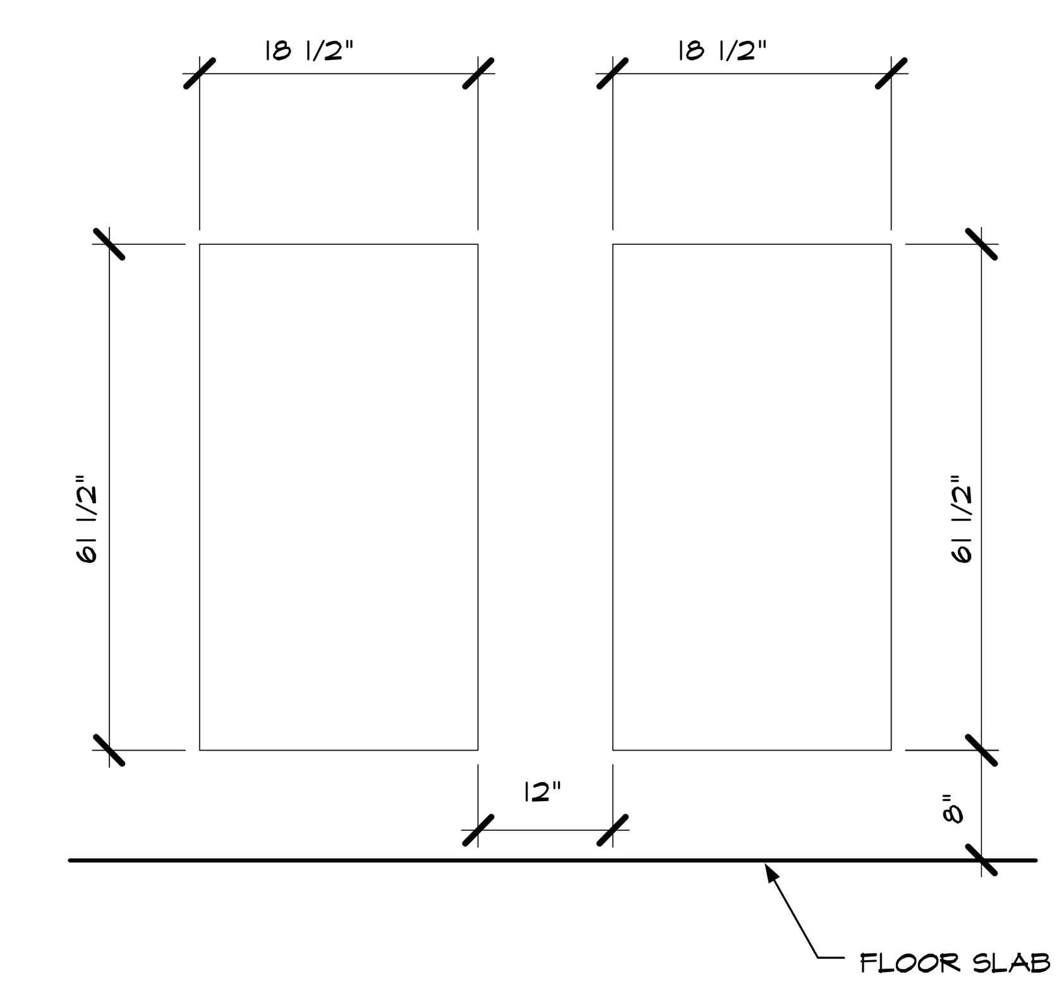
CABLE TRAY (OPTION 1)
FOR REFERENCE ONLY



CABLE TRAY (OPTION 2) (1)
FOR REFERENCE ONLY



G.E. PENETRATION FILTER PANEL SECTION

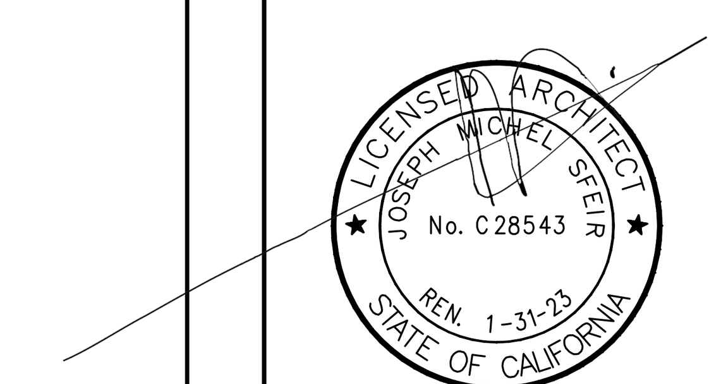


PANEL ELEVATION

GE PENETRATION (2)
FILTER PANEL OPENING

MRI CORPORATION

3554 Business Center Drive, Suite B
Costa Mesa, CA. 92626
Ph. (714) 545-7700 Fax (714) 545-7701



TRI CITY
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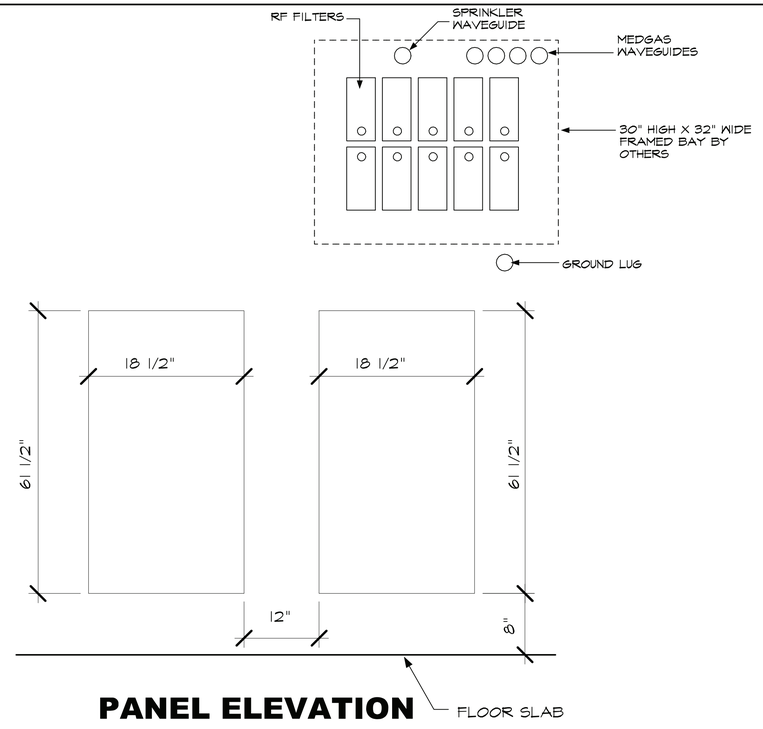
100% CONSTRUCTION DRAWINGS

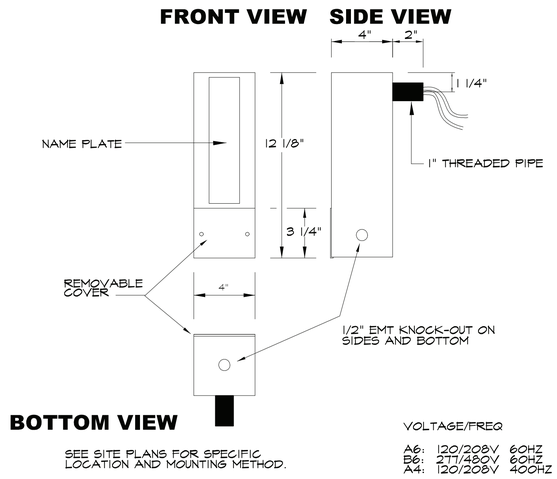
MRI . 3



PANEL ELEVATION

FILTER AND WAVEGUIDE LAYOUT

(TYPICAL VIEW FROM OUTSIDE ROOM,
EXACT LAOUT TO BE DETERMINED ON FIELD)

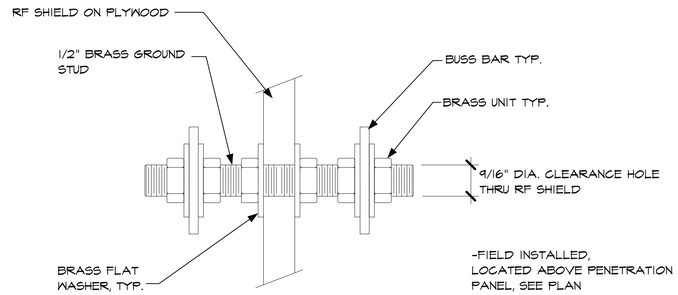


SEE SITE PLANS FOR SPECIFIC LOCATION AND MOUNTING METHOD.

VOLTAGE/FREQ

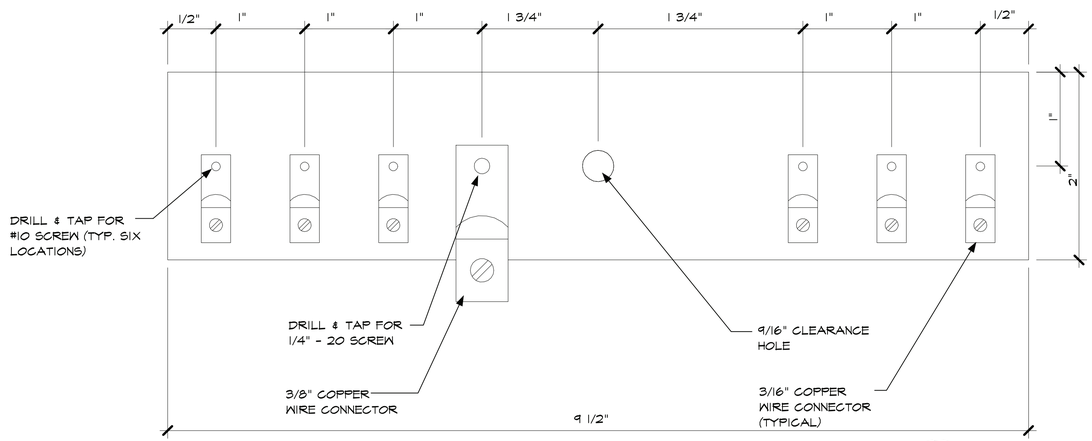
A6: 120/208V 60HZ
B6: 277/480V 60HZ
A4: 120/208V 400HZ

30 AMP ELECTRICAL FILTER (1)



GROUND STUD & BUSS BAR ASSEMBLY

(BY MRIC)



BUSS BAR FRONT VIEW (2)

(BY OTHERS)

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LICENSED ARCHITECT
JOSEPH MICHAEL PARR
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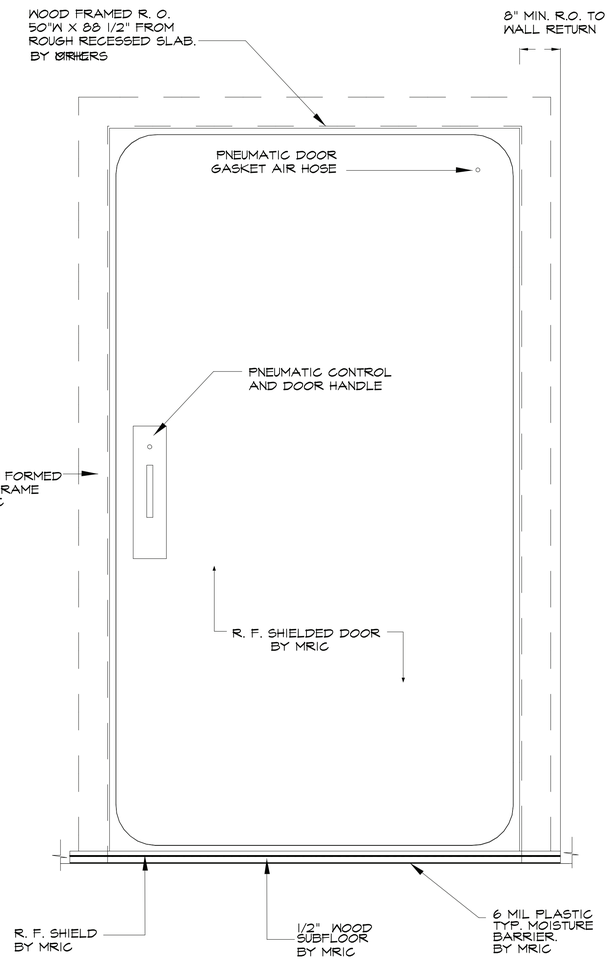
TRI CITY MEDICAL CENTER
OCEANSIDE, CALIFORNIA

OSHPD# S200813-37-00

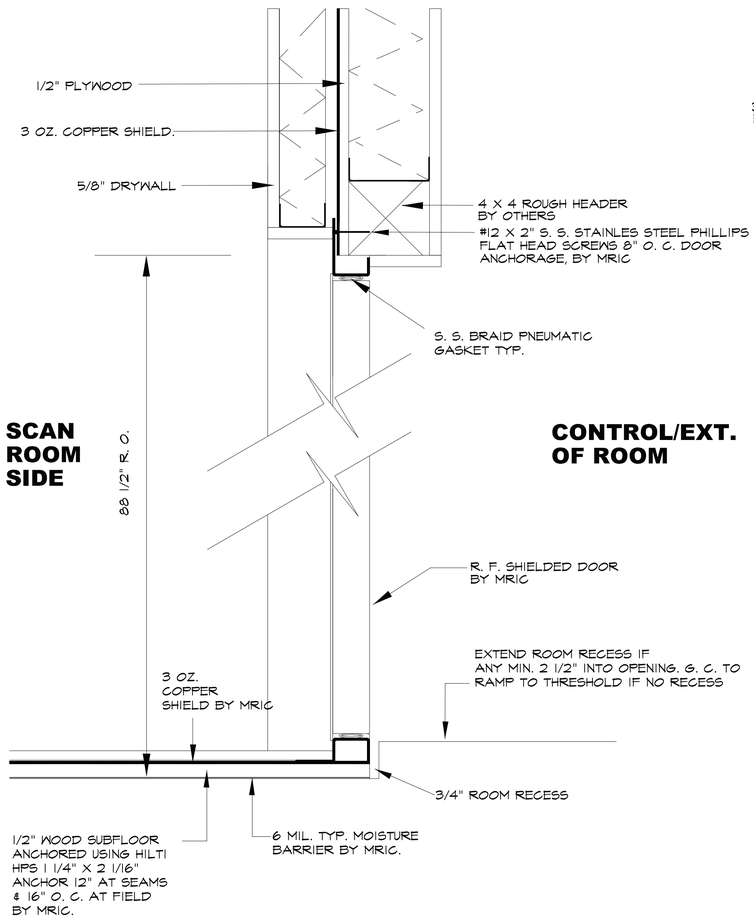
DRAWN: MP
CHECKED: RR
DATE: 6/18/20
SCALE: NONE
JOB # 1957

100% CONSTRUCTION DRAWINGS

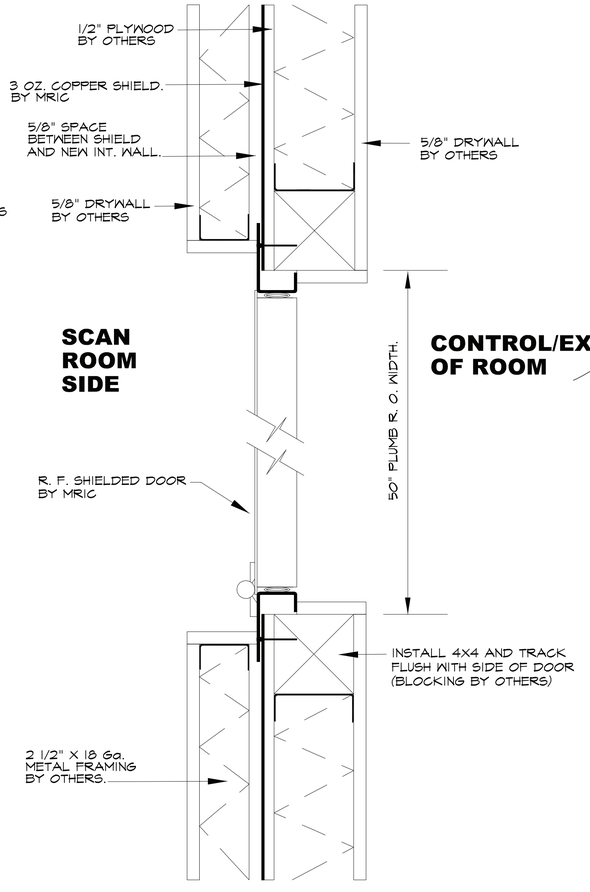
MRI . 4



R.F. SHIELDED DOOR SCAN ROOM VIEW



TYP. HEADER & THRESHOLD



R. F. DOOR TOP SECTION VIEW

R.F. DOOR DETAILS (1)

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OSHPD# S200813-37-00

DRAWN: MP
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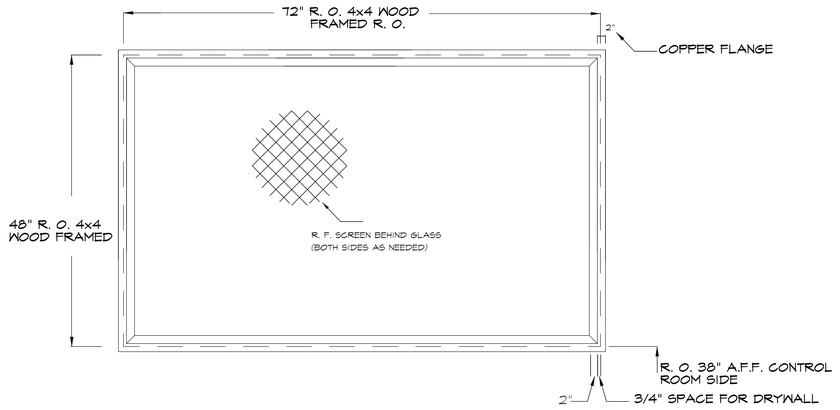
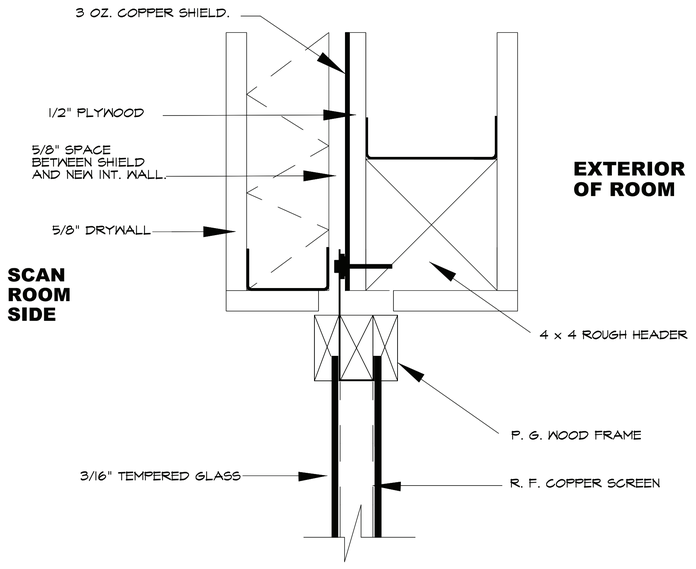
SCALE: NONE
JOB # 1957

100% CONSTRUCTION DRAWINGS

MRI . 5



CONTRACTOR TO VERIFY FINAL WINDOW SIZE R.O.



R.F. INTERIOR SHIELDED WINDOW 1

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TRI CITY
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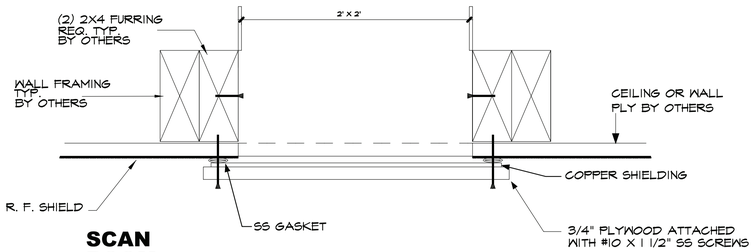
OSHPD# S200813-37-00

DRAWN: MP
CHECKED: RR
DATE: 4/29/21
SCALE: NONE
JOB # 1957

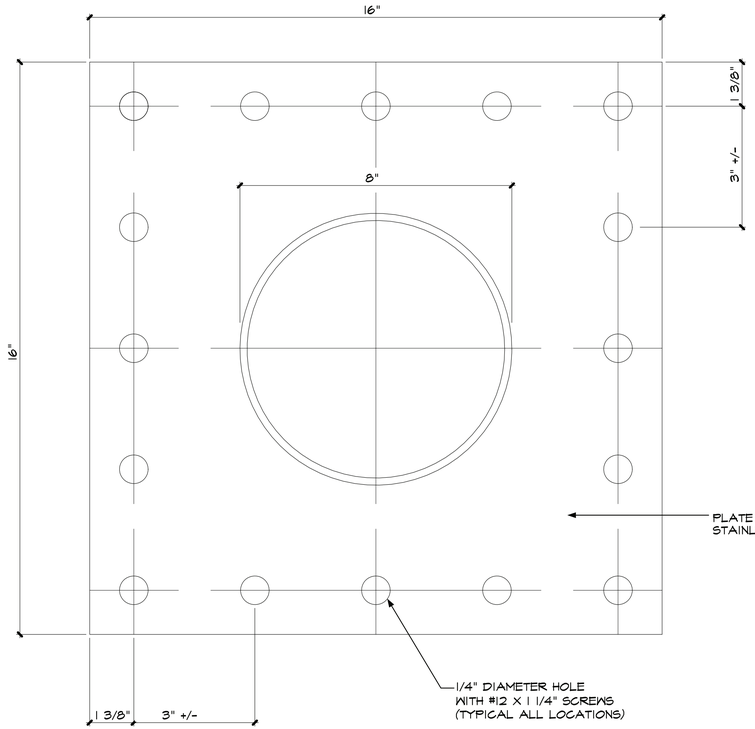
100% CONSTRUCTION DRAWINGS

MRI . 6

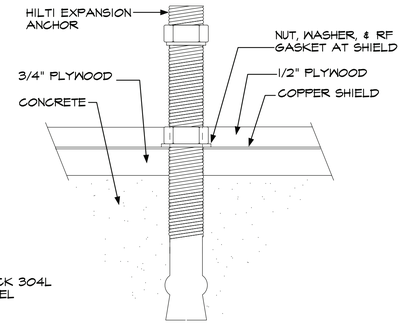


SCAN ROOM SIDE

ACCESS HATCH 1

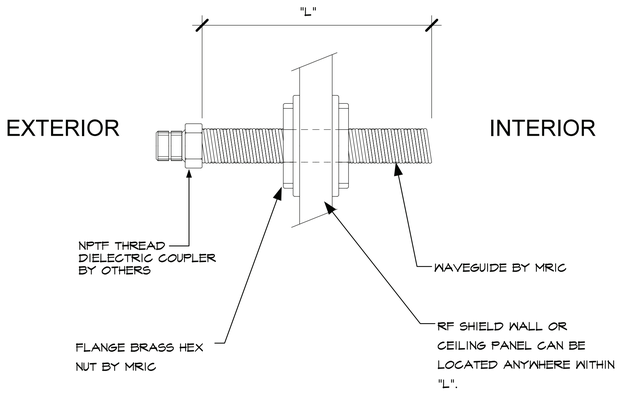


QUENCH TUBE FLANGE 2

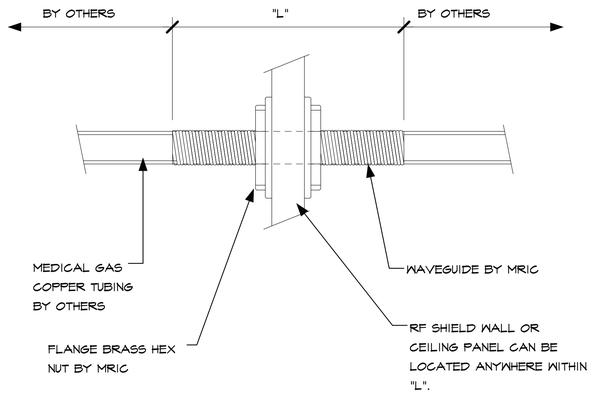


TYPICAL ANCHOR BOLT PENETRATION 6

INTERIOR

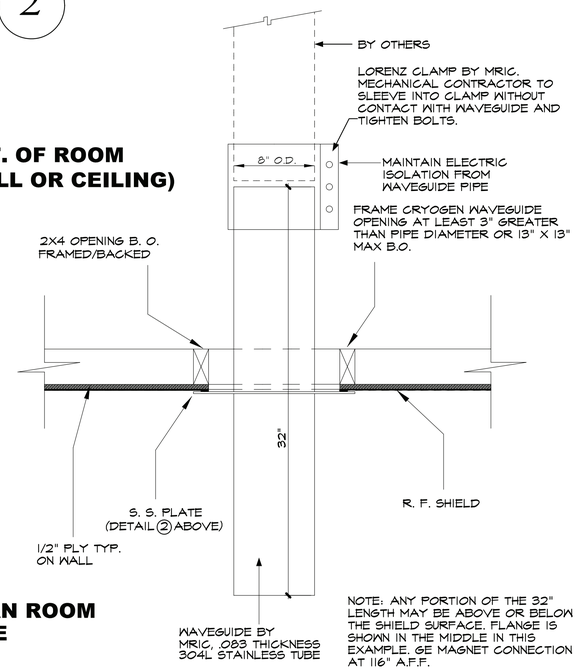


SPRINKLER WAVEGUIDE ASSEMBLY 3



MEDICAL GAS WAVEGUIDE 4

EXT. OF ROOM (WALL OR CEILING)



SCAN ROOM SIDE

CEILING CRYOGEN PIPE WAVEGUIDE 5

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OSHPD# S200813-37-00

DRAWN: MP
CHECKED: RR
DATE: 4/29/21
SCALE: NONE
JOB # 1957

100% CONSTRUCTION DRAWINGS

MRI . 7

GENERAL NOTES

1. DESIGN AND INSTALLATION TO BE IN ACCORDANCE WITH THE FOLLOWING CODES:

   2019 CALIFORNIA FIRE CODE (CFC)
   2019 CALIFORNIA BUILDING CODE (CBC)
   2016 NFPA 13, STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS, WITH CALIFORNIA AMENDMENTS
   CHAPTER 13 OF ASCE 7 AS MODIFIED BY THE CBC 2019 SECTIONS 1613A/1616A AND SFM AMENDMENTS

2. ALL NEW FIRE SYSTEM PIPING (ABOVE GROUND) TO BE SCHEDULE 40 BLACK STEEL.
3. ALL FIRE SYSTEM EQUIPMENT TO BE UNDERWRITERS LABORATORIES (UL) LISTED FOR FIRE PROTECTION USE.
4. ALL HANGERS TO BE INSTALLED IN ACCORDANCE WITH NFPA 13 AND JOIST AND HANGER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
5. ALL PIPE DIMENSIONS SHOWN ARE CENTER TO CENTER.
6. CONTRACTOR IS TO FIELD VERIFY ALL DIMENSIONS AND COORDINATE WITH OTHER TRADES PRIOR TO INSTALLATION. INSTALL OFFSETS AS REQUIRED FOR COORDINATION.
7. REFERENCE PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION NOT SHOWN ON THE DRAWINGS.
8. AS-BUILT DRAWINGS SHALL BE MAINTAINED ON PREMISES.
9. FIRE WATCH, PAID FOR BY THE CONTRACTOR, FOR ANY AREA UNDER CONSTRUCTION, AND FOR ANY DOWN TIME IN PHASES NOT UNDER CONSTRUCTION SHALL BE PROVIDED IN ACCORDANCE WITH SPECIFICATION 21 13 13 SECTION 1.03.A.3. (7)

SCOPE OF WORK

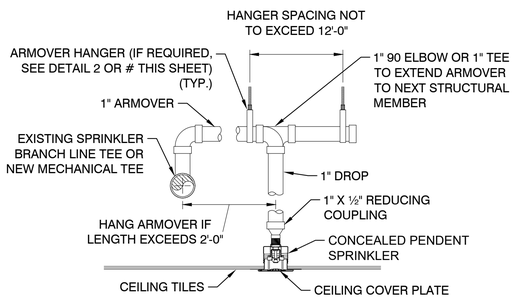
PROVIDE AUTOMATIC SPRINKLER PROTECTION FOR THE REMODEL AREA ON THE FIRST FLOOR OF TRI-CITY MEDICAL CENTER AS INDICATED ON THE PLANS. THE REMODEL CONSISTS OF RENOVATION WORK INCLUDING DEMOLITION OF EXISTING WALLS AND REARRANGEMENT OF THE SPACE OVERALL. SPRINKLER REMODEL WILL BE AS FOLLOWS:

1. DEMO EXISTING SPRINKLERS AND ARMOVERS BACK TO BRANCH LINE.
2. INSTALL NEW ARMOVERS TO NEW SPRINKLERS FROM EXISTING OUTLETS. USE MECHANICAL TEES WHERE EXISTING OUTLETS ARE UNAVAILABLE.
3. PROVIDE ALL REQUIRED HANGERS ON THE NEW SPRINKLER SYSTEM AS INDICATED ON THE SPRINKLER PIPING PLANS AND DETAILS AND IN ACCORDANCE WITH NFPA 13 CHAPTER 9.
4. STEEL PIPE WILL TRANSITION TO NON-FERROUS PIPING BEFORE ENTERING THE MRI ROOM.

SPRINKLER DESIGN CRITERIA

1. OFFICES AND CORRIDORS: LIGHT HAZARD WET PIPE SPRINKLER SYSTEM DESIGNED TO PROVIDE 0.10 GPM/SQ. FT. OVER THE MOST REMOTE 1,500 SQ. FT. INCLUDING A HOSE DEMAND OF 100 GPM. MAXIMUM SPRINKLER AREA OF PROTECTION TO BE 225 SQ. FT.

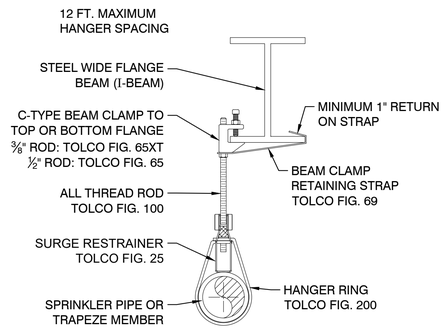
SHEET INDEX



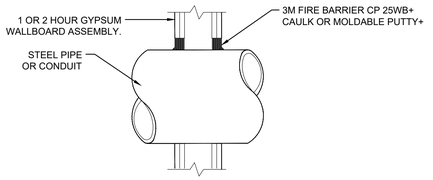
PROVIDE 2" OVERSIZE RING OR ADAPTER FOR SPRINKLER HEADS THROUGH THE CEILING TILE TO ALLOW FOR FREE MOVEMENT OF AT LEAST 1" IN ALL DIRECTIONS PER ASCE 7-05 SECTION 13.5.6.2.2(e)

DO NOT HANG PIPE FROM ROOF, ONLY HANG FROM STEEL BEAMS.

1 ARMOVER DETAIL
SCALE: NTS



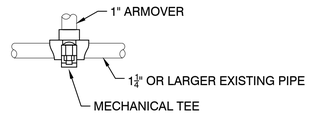
2 BEAM HANGER DETAIL
SCALE: NTS



CONSULT CURRENT UNDERWRITERS LABORATORIES "FIRE RESISTANCE DIRECTORY" FOR DETAILS
UL SYSTEM W-L-1001

3M FIRESTOPPING TO EQUAL FIRE RATING OF PENETRATED WALL
KEEP ANNULAR CLEARANCES PER NFPA 13

3 PENETRATION AT STUD WALL
SCALE: NTS



4 MECHANICAL TEE DETAIL
SCALE: NTS

SFEIR ARCHITECTS
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San Diego, CA 92122

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F: 619-299-5084
www.sfeirarch.com

TCMC MRI

Tri-City Medical Center

4002 VISTA WAY
OCEANSIDE CA, 92056

OWNER:	TRI-CITY MEDICAL CENTER 4002 VISTA WAY OCEANSIDE, CALIFORNIA 92056 TEL(760)940-7709
ARCHITECT:	SFEIR ARCHITECTS (6) 5151 SHOREHAM PL SUITE 265 SAN DIEGO, CALIFORNIA 92122 TEL(619)299-3917
STRUCTURAL:	MIYAMOTO INTERNATIONAL, INC. (6) 5550 BALTIMORE DRIVE, SUITE 100 LA MESA, CA 91942 TEL(858)457-3001
MECHANICAL &PLUMBING:	SC ENGINEERS, INC. 17075 VIA DEL CAMPO SAN DIEGO, CALIFORNIA 92127 TEL(858)946-0333
ELECTRICAL:	AG DESIGN, INC. 171 S. ANITA DR. SUITE 111 ORANGE, CALIFRONIA 92868 TEL(714)769-9900 EXT. 201
SHIELDING:	MRI SHIELDING CORPORATION 3554 BUISNESS PARK DR., SUITE B COSTA MESA, CA 92626 TEL(714)545-7700
INTERIORS:	ISLEY DESIGN & PLANNING 1982 PALSERO AVENUE ESCONDIDO, CA 92029 TEL(760)484-0455

LICENSED ARCHITECT — JOSEPH MICHAEL ISFEIR — No. C 28543 — REN. 1-31-22 — STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER — ROBERT E. BURTT — M 39163 — MECHANICAL — STATE OF CALIFORNIA

REV:		DESCRIPTION:	DATE:
1	1	OSHPD COMMENTS	8/3/2020
2	2	DESIGN CHANGES	8/10/2020
3	3	OSHPD COMMENTS	10/2/2020
4	4	OSHPD COMMENTS	11/24/2020
5	5	DESIGN CHANGES	11/24/2020
6	6	ACD 2001 DESIGN CHANGES	4/12/2021
7	7	ACD 2001 DESIGN CHANGES	5/8/2021

CONSULTANT

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OSHPD APPROVAL STAMP:

OSHPD #: S200813-37-00-ACD0001

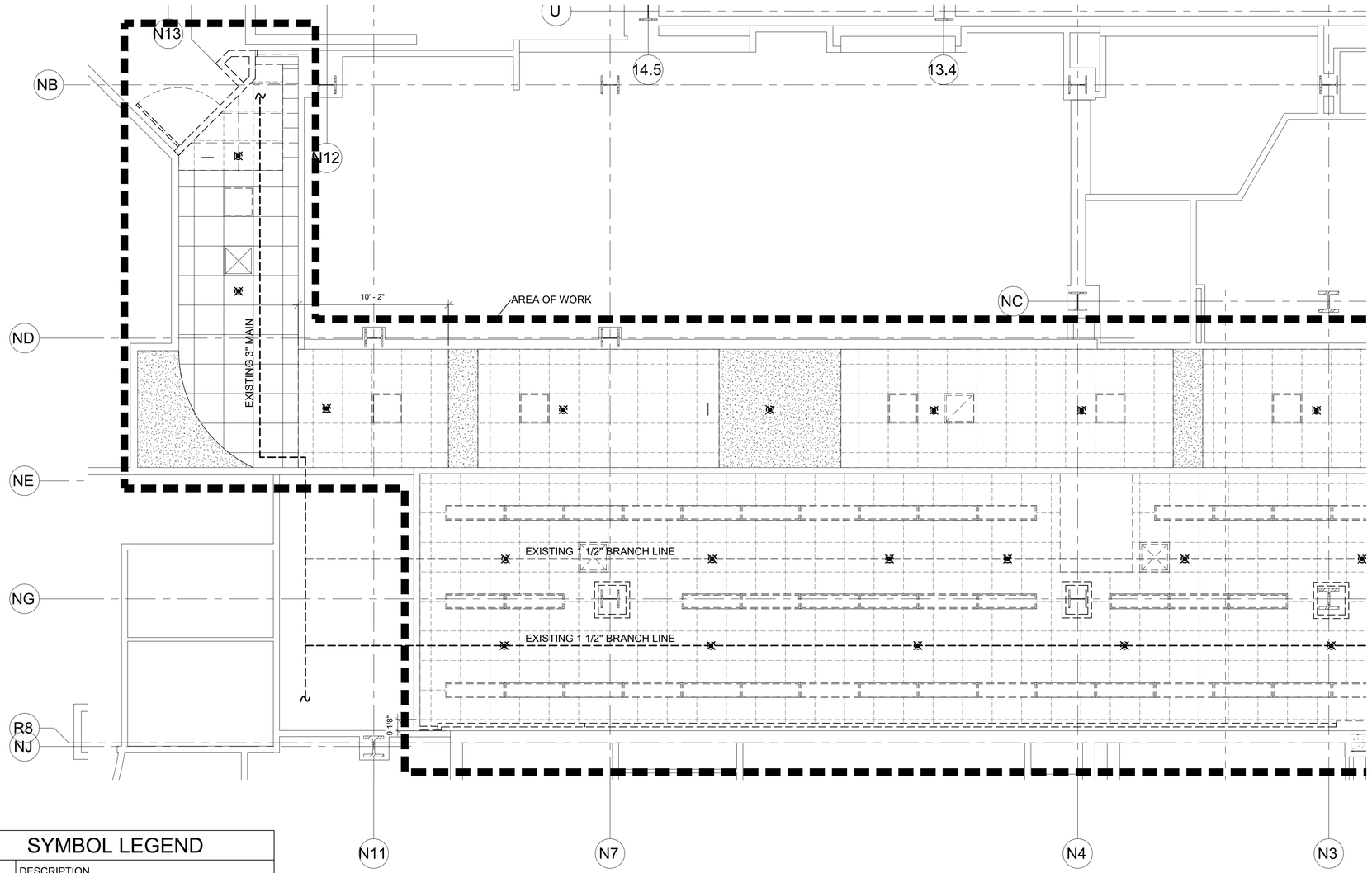
SHEET TITLE:

FIRE SPRINKLER GENERAL NOTES AND DETAILS

PROJECT TITLE:

PROJECT #:
SHEET NUMBER:
DRAWN BY:
CHECKED BY:
SCALE: PER TITLE
DATE:

FP-101



SEE SHEET FP-103 FOR CONTINUATION

SYMBOL LEGEND

SYM	DESCRIPTION
X" / X'-X"	DIAMETER OF PIPE / PIPE / LENGTH OF PIPE
– – – – –	EXISTING PIPE
⊗	EXISTING FIRE SPRINKLER RISER
○	EXISTING OUTLET TO BE USED
⊖	EXISTING OUTLET TO BE PLUGGED
⊻	MECHANICAL TEE
⊤	CAP
⊤	PIPE CONTINUATION
⟋	PIPE HANGER

1 FIRE SPRINKLER DEMOLITION EAST

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

SPRINKLER SCHEDULE & LEGEND

SYMBOL	SPRINKLER DESCRIPTION	MFG.	SERIES	K-FACTOR	TEMP.	FINISH	SIN	QUANTITY
○	EXISTING QUICK RESPONSE, PENDENT SPRINKLER TO BE REMOVED	N/A	N/A	5.6	155 °F	N/A	N/A	35
SPRINKLER CAB'T & WRENCH(ES) PROVIDED						TOTAL COUNT THIS LEVEL =		35

0 2' 4' 8'

---- ----

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

S F E I R
A R C H I T E C T S

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LICENSED ARCHITECT JOSEPH MICHAEL SFEIR No. C 28543 REN. 1-31-23 STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER ROBERT E. BURT M 39163 MECHANICAL STATE OF CALIFORNIA

1	1	OSHPD COMMENTS	8/3/2020
2	2	DESIGN CHANGES	8/10/2020
3	3	OSHPD COMMENTS	10/2/2020
4	4	OSHPD COMMENTS	11/24/2020
5	5	DESIGN CHANGES	11/24/2020
6	6	ACD 2001 DESIGN CHANGES	4/12/2021
7	7	ACD 2001 DESIGN CHANGES	5/8/2021

REV: DESCRIPTION: DATE:

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OSHPD APPROVAL STAMP:

OSHPD #: S200813-37-00-ACD0001

SHEET TITLE:

FIRE SPRINKLER DEMOLITION PLAN EAST

PROJECT TITLE:

PROJECT #: SHEET NUMBER:

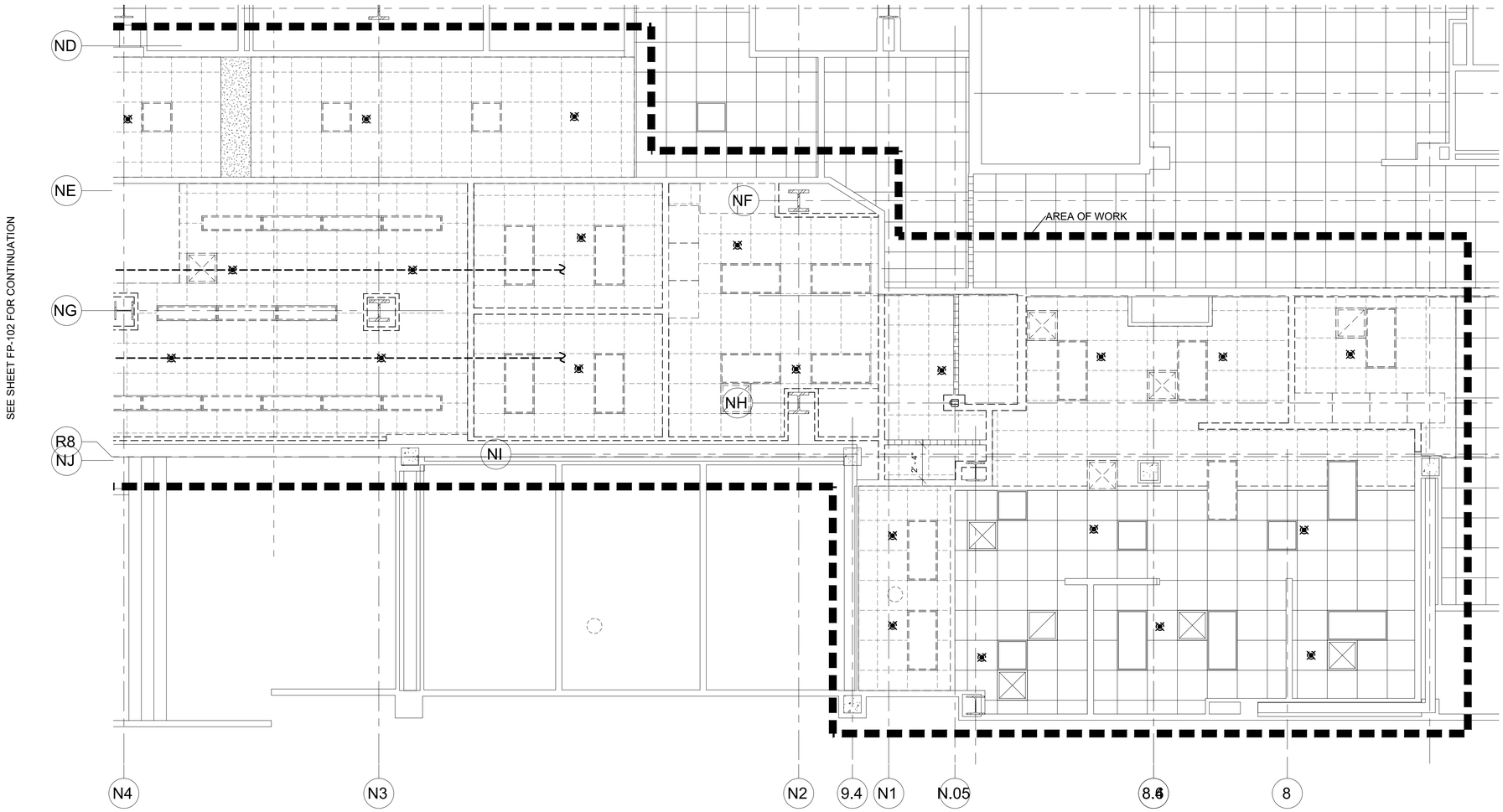
DRAWN BY:

CHECKED BY:

SCALE: PER TITLE

DATE:

FP-102



1 FIRE SPRINKLER DEMOLITION WEST
SCALE: 1/4" = 1'-0"

SYMBOL LEGEND

SYM	DESCRIPTION
X" / X'-X"	DIAMETER OF PIPE / PIPE / LENGTH OF PIPE
– – – – –	EXISTING PIPE
⊗	EXISTING FIRE SPRINKLER RISER
○	EXISTING OUTLET TO BE USED
○	EXISTING OUTLET TO BE PLUGGED
	MECHANICAL TEE
	CAP
	PIPE CONTINUATION
	PIPE HANGER

SPRINKLER SCHEDULE & LEGEND

SYMBOL	SPRINKLER DESCRIPTION	MFG.	SERIES	K-FACTOR	TEMP.	FINISH	SIN	QUANTITY
	EXISTING QUICK RESPONSE, PENDENT SPRINKLER TO BE REMOVED	N/A	N/A	5.6	155 °F	N/A	N/A	35
	SPRINKLER CAB'T & WRENCH(ES) PROVIDED					TOTAL COUNT THIS LEVEL =		35

0 2' 4' 8'

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

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4	4	OSHPD COMMENTS	11/04/2020
5	5	DESIGN CHANGES	11/04/2020
6	6	ACD 2001 DESIGN CHANGES	4/12/2021
7	7	ACD 0001 DESIGN CHANGES	5/6/2021

REV: DESCRIPTION: DATE:

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OSHPD APPROVAL STAMP:

OSHPD #: S200813-37-00-ACD0001

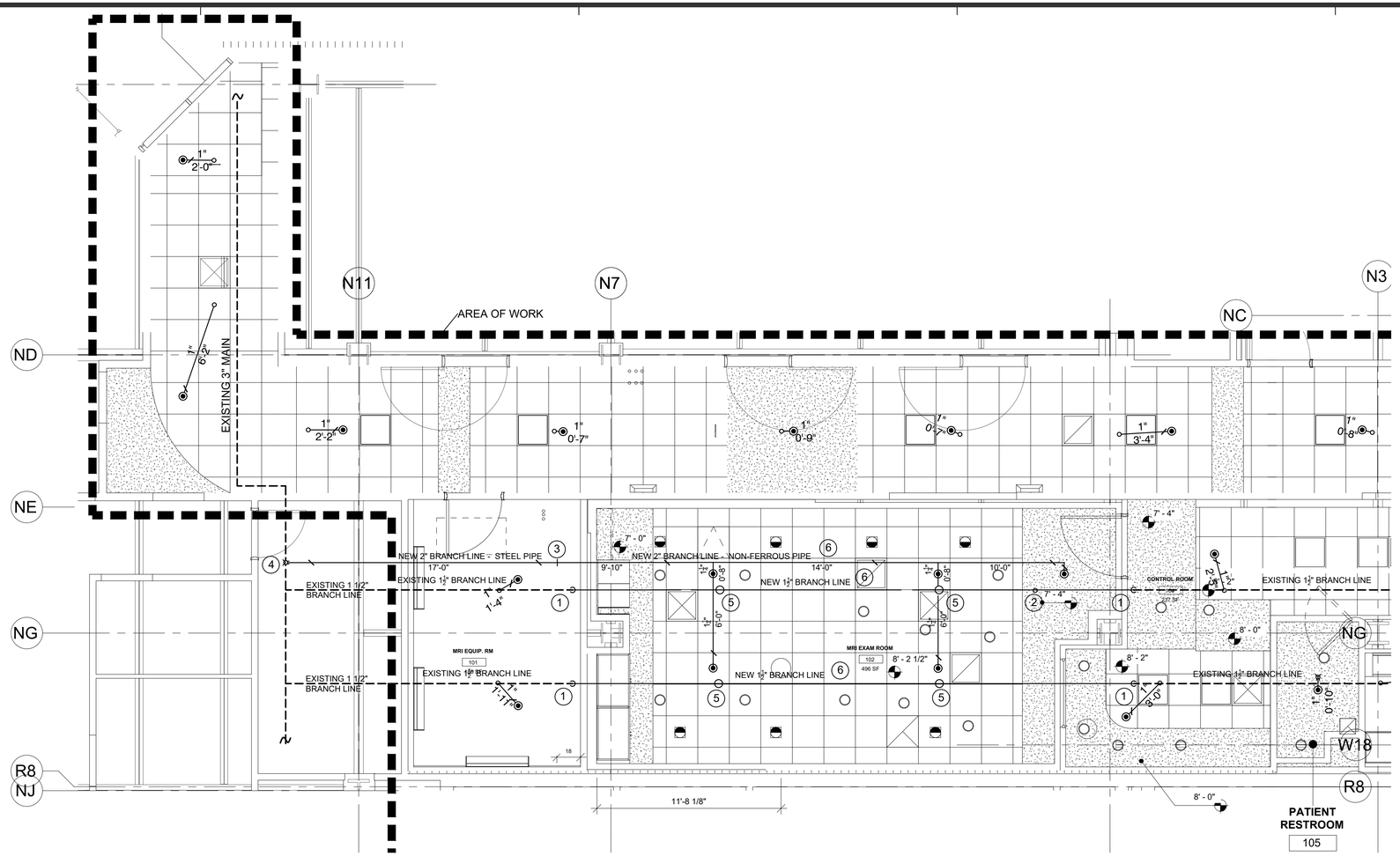
SHEET TITLE:

FIRE SPRINKLER DEMOLITION PLAN WEST

PROJECT TITLE:

PROJECT #:
SHEET NUMBER:
DRAWN BY:
CHECKED BY:
SCALE: PER TITLE
DATE:

FP-103

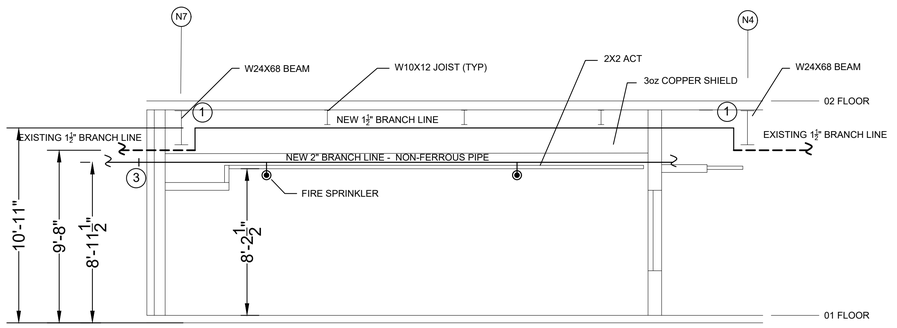


SHEET NOTES:

1. RELOCATE EXISTING BRANCH LINE 6" +/- FROM BOTTOM OF DECK ABOVE MRI ROOM (TYP OF 2)
2. CAP AND PLUG EXISTING OUTLETS ABOVE MRI ROOM
3. TRANSITION FROM STEEL TO NON FERROUS PIPING BEFORE ENTERING THE MRI ROOM. COORDINATE EXACT LOCATION FOR ENTERING THE MRI ROOM WITH ARCHITECT.
4. CONNECT NEW 2" BRANCH LINE TO EXISTING 3" MAIN USING A MECHANICAL TEE.
5. PROVIDE UPRIGHT SPRINKLERS ABOVE THE MRI ROOM.
6. NEW BRANCH LINE PIPING SHALL BE SUPPORTED BY RODS LESS THAN 6" MEASURED BETWEEN THE TOP OF THE PIPE AND THE POINT OF ATTACHMENT TO THE STRUCTURE. BRANCH LINE RESTRAINT IS NOT REQUIRED IN ACCORDANCE WITH NFPA 13 SECTION 9.3.6.5

1 FIRE SPRINKLER RENOVATION EAST

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



2 SECTION VIEW

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

SYMBOL LEGEND

SYM	DESCRIPTION
X" / X'-X"	DIAMETER OF PIPE / PIPE / LENGTH OF PIPE
– – – – –	EXISTING PIPE
⊗	EXISTING FIRE SPRINKLER RISER
○	EXISTING OUTLET TO BE USED
○	EXISTING OUTLET TO BE PLUGGED
⊼	MECHANICAL TEE
⊤	CAP
⊤	PIPE CONTINUATION
⟋	PIPE HANGER

SPRINKLER SCHEDULE & LEGEND

SYMBOL	SPRINKLER DESCRIPTION	MFG.	SERIES	K-FACTOR	TEMP.	FINISH	SIN	QUANTITY
◉	QUICK RESPONSE, CONCEALED PENDENT SPRINKLER TO BE INSTALLED	VIKING	MIRAGE	5.6	155 °F	WHITE	VK462	37
	SPRINKLER CAB'T & WRENCH(ES) PROVIDED					TOTAL COUNT THIS LEVEL =		37

PENDENT SPRINKLERS TO BE INSTALLED AT CENTER OR QUARTER POINT OF TILE WHERE OCCURS.

0 2' 4' 8'

– – – – –

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

SFEIR ARCHITECTS
5151 Shoreham Pl, Suite 265
San Diego, CA 92122
P: 619-299-3917
F: 619-299-5084
www.sfeirarch.com

TCMC MRI

Tri-City Medical Center

4002 VISTA WAY
OCEANSIDE CA, 92056

OWNER:	TRI-CITY MEDICAL CENTER 4002 VISTA WAY OCEANSIDE, CALIFORNIA 92056 TEL(760)940-7709
ARCHITECT:	SFEIR ARCHITECTS 5151 SHOREHAM PL SUITE 265 SAN DIEGO, CALIFORNIA 92122 TEL(619)299-3917
STRUCTURAL:	MIYAMOTO INTERNATIONAL, INC. 5550 BALTIMORE DRIVE, SUITE 100 LA MESA, CA 91942 TEL(858)457-3001
MECHANICAL &PLUMBING:	SL ENGINEERS, INC. 17075 VIA DEL CAMPO SAN DIEGO, CALIFORNIA 92127 TEL(858)946-0333
ELECTRICAL:	AG DESIGN, INC. 171 S. ANITA DR. SUITE 111 ORANGE, CALIFRONIA 92868 TEL(714)769-9900 EXT. 201
SHIELDING:	MRI SHIELDING CORPORATION 3554 BUISNESS PARK DR., SUITE B COSTA MESA, CA 92626 TEL(714)545-7700
INTERIORS:	ISLEY DESIGN & PLANNING 1982 PALSERO AVENUE ESCONDIDO, CA 92029 TEL(760)484-0455

LICENSED ARCHITECT — JOSEPH MICHAEL ISFEIR — No. C 28543 — REN. 1-31-22 — STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER — ROBERT E. BURT — M 39163 — MECHANICAL — STATE OF CALIFORNIA

1	1	OSHPD COMMENTS	8/3/2020
2	2	DESIGN CHANGES	8/10/2020
3	3	OSHPD COMMENTS	10/2/2020
4	4	OSHPD COMMENTS	11/04/2020
5	5	DESIGN CHANGES	11/24/2020
6	6	ACD 0001 DESIGN CHANGES	4/12/2021
7	7	ACD 0001 DESIGN CHANGES	5/6/2021

REV: DESCRIPTION: DATE:

CONSULTANT:

JENSEN HUGHES
11545 W. BERNARDO COURT
SUITE 300
SAN DIEGO, CA 92127
+1 619-488-9810
WWW.JENSENHUGHES.COM

OSHPD APPROVAL STAMP:

OSHPD #: S200813-37-00-ACD0001

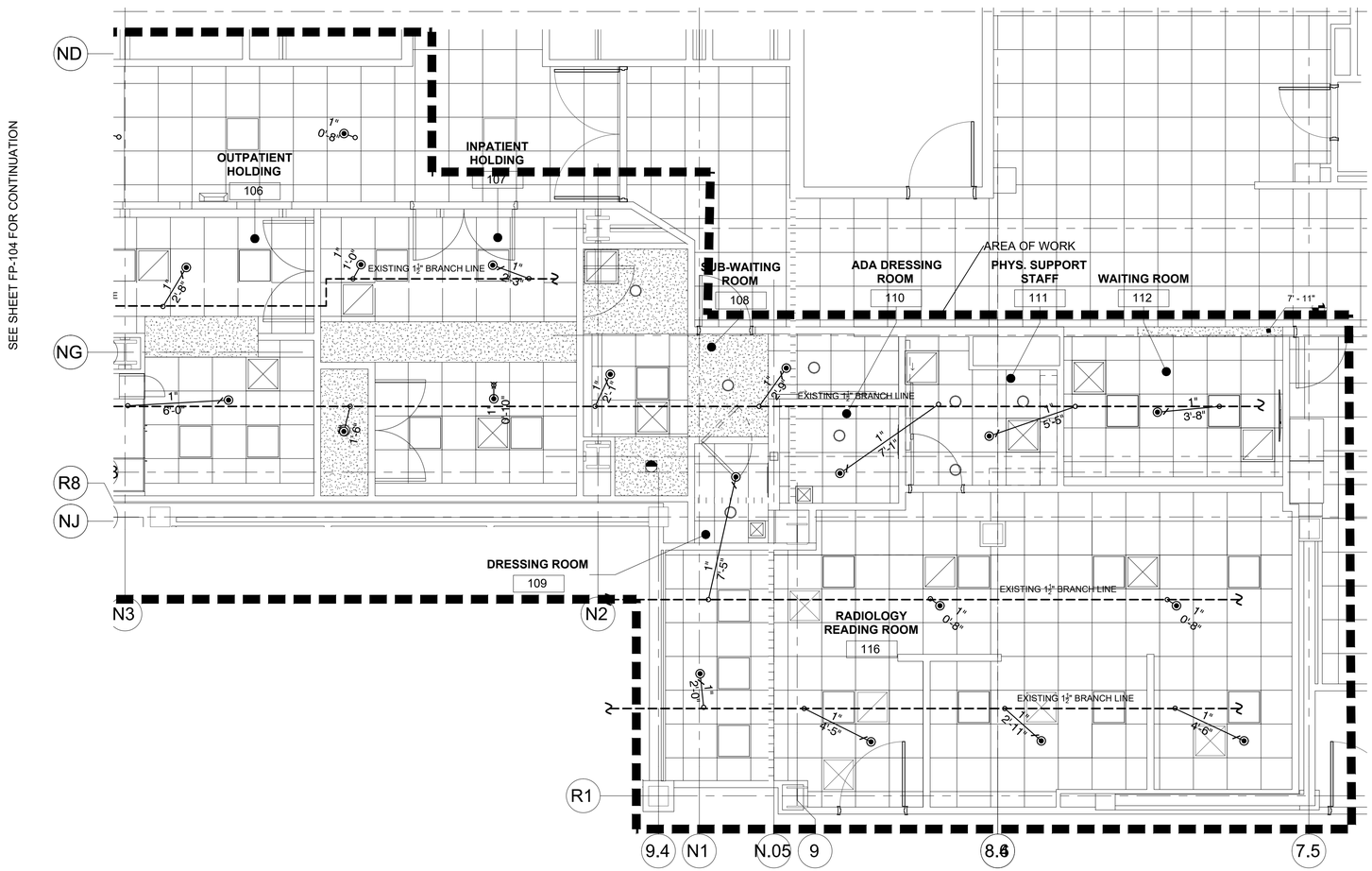
SHEET TITLE:

FIRE SPRINKLER RENOVATION PLAN EAST

PROJECT TITLE:

PROJECT #:
SHEET NUMBER:
DRAWN BY:
CHECKED BY:
SCALE: PER TITLE
DATE:

FP-104



1 FIRE SPRINKLER DEMOLITION WEST

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

SYMBOL LEGEND

SYM	DESCRIPTION
X" / X'-X"	DIAMETER OF PIPE / PIPE / LENGTH OF PIPE
– – – – –	EXISTING PIPE
⊗	EXISTING FIRE SPRINKLER RISER
○	EXISTING OUTLET TO BE USED
⊖	EXISTING OUTLET TO BE PLUGGED
⊼	MECHANICAL TEE
⊤	CAP
⊤	PIPE CONTINUATION
⟋	PIPE HANGER

SPRINKLER SCHEDULE & LEGEND

SYMBOL	SPRINKLER DESCRIPTION	MFG.	SERIES	K-FACTOR	TEMP.	FINISH	SIN	QUANTITY
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REV:		DESCRIPTION:	DATE:
1	1	OSHPD COMMENTS	8/3/2020
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5	5	DESIGN CHANGES	11/24/2020
6	6	ACD 2001 DESIGN CHANGES	4/1/2021
7	7	ACD 0001 DESIGN CHANGES	5/6/2021

CONSULTANT:

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OSHPD APPROVAL STAMP:

OSHPD #: S20813-37-00-ACD0001

SHEET TITLE:

FIRE SPRINKLER RENOVATION PLAN WEST

PROJECT TITLE:

PROJECT #:

SHEET NUMBER:

FP-105

DRAWN BY:

CHECKED BY:

SCALE: PER TITLE

DATE: